

# FCC RADIO TEST REPORT

according to

47 CFR FCC Part 15 Subpart E § 15.407

**Equipment Name** : Cable Modem  
**Model Name** : TC8717C  
**Filing Type** : Class II Change  
**FCC ID** : G95-TC8717C  
**Trade Name** : technicolor  
**Applicant** : **Technicolor Connected Home USA LLC**  
101 West 103rd Street Indianapolis, IN 46290  
United States

## Statement

Test result included is for the IEEE 802.11n and IEEE 802.11a/ac (5250~5350MHz / 5470~5725MHz) of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.10-2013, 47 CFR FCC Part 15 Subpart E, KDB789033 D02 v01, KDB662911 D01 v02r01 and KDB644545 D03 v01.**

The test equipment used to perform the test is calibrated and traceable to NML/ROC.



***SPORTON International Inc.***

*No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.*

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**History of This Test Report**

<b>REPORT NO.</b>	<b>VERSION</b>	<b>DESCRIPTION</b>	<b>ISSUED DATE</b>
FR422438-01	Rev.01	Initial issue of report	Aug. 28, 2015

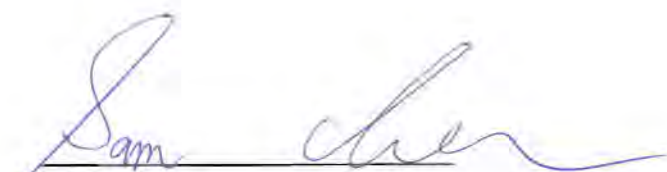
# VERIFICATION OF COMPLIANCE

according to

47 CFR FCC Part 15 Subpart E § 15.407

Equipment Name : Cable Modem  
Model Name : TC8717C  
Trade Name : technicolor  
Applicant : Technicolor Connected Home USA LLC  
101 West 103rd Street Indianapolis, IN 46290 United States

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Jan. 13, 2014 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.



Sam Chen

**SPORTON International Inc.**

No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

**1 SUMMARY OF THE TEST RESULT**

<b>Applied Standard: 47 CFR FCC Part 15 Subpart E</b>				
<b>Part</b>	<b>Rule Section</b>	<b>Description of Test</b>	<b>Result</b>	<b>Under Limit</b>
4.1	15.407(b)(6)	AC Power Line Conducted Emissions	Complies	16.67 dB
4.2	15.407(a)	Emission Bandwidth and 99% Occupied Bandwidth Measurement	Complies	-
4.3	15.407(a)(1/2/3)	Maximum Conducted Output Power	Complies	2.93 dB
4.4	15.407(a)(1/2/3)	Power Spectral Density	Complies	1.81 dB
4.5	15.407(b)(1/2/3/4/6)	Radiated Emissions	Complies	3.15 dB
4.6	15.407(b)(1/2/3/4/6)	Band Edge Emissions	Complies	0.01 dB
4.7	15.407(g)	Frequency Stability	Complies	-
4.8	15.203	Antenna Requirements	Complies	-

**1.1 Information provided by the manufacturer**

Equipment Name: Cable Modem

Model Name: TC8717C

Trade Name: technicolor

Power Supply: 1. Internal AC-DC power pack, 12Vdc, 3.5A, Manufacturer: AcBel, Model: JSSTD003-AD0G2

2. Battery, Manufacturer: Getac, Model: BP-TC-8-22 / 2250S, Rating:7.2V 4300mAh

AC Power Cord: 2pin

Hardware Version: LAB2

Interface Availability

Interface / Model Name	Internal AC-DC power pack Input: 120V Output : 12Vdc3.5A	Battery	Cable modem: DOCSIS 3.0 Cable Modem MoCA: MoCA 2.0 D Band 1125MHz and 1525MHz	Ethernet 10/100/1000 Mbps	USB 2.0	Line	WLAN IEEE 802.11a/b/g/n/ac (2.4GHz/5GHz 3*3)	DECT
TC8717C	●	●	●	●(4 port )	●(2 port)	●(2 port)	●	●

● : Equipped

○ : Not Equipped

**1.2 Application of harmonized standard**

US Standard: 47 CFR FCC Part 15 Subpart E § 15.407

ANSI C63.10-2013

KDB662911 D01 Multiple Transmitter Output v02r01, 10/31/2013

KDB789033 D02 General UNII Test Procedures New Rules v01, 06/06/2014

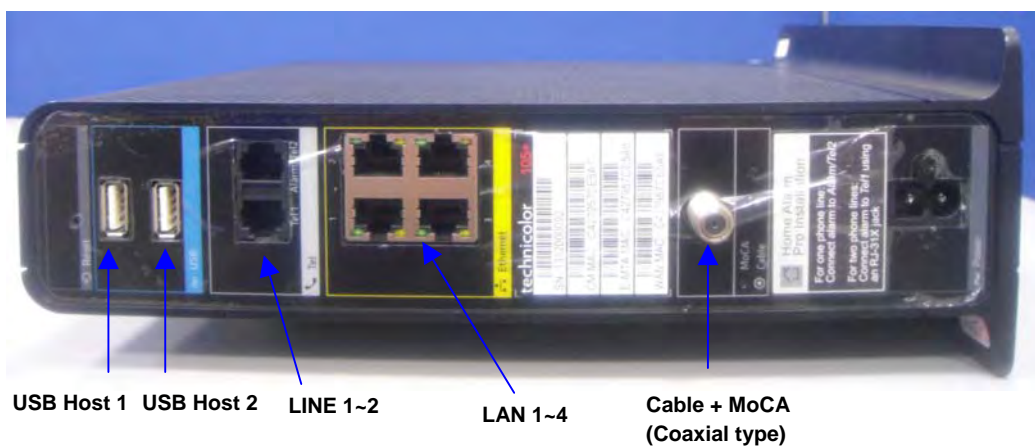
KDB644545 D03 Guidance for IEEE 802.11ac v01, 08/14/2014

**1.3 Cabling Attached to the Equipment**

Table 1- Cable and Interconnection

Interface	Cable type	Cable length delivered with the modem	“Real life” Cable length that can be attached to this type of interface	Cable length to be used for testing	Internal / external connection
Cable & MoCA	coaxial	2 meter	> 10 meter	10 meter	External
Eth1	UTP Cat 5	2 meter	> 10 meter	10 meter	Internal
Line1/2	UTP Cat 3	2 meter	> 10 meter	1 meter flat cable	Internal
USB1/2	STP	1 meter	< 3 meter	1 meter	Internal
AC power					Internal
Battery					Internal

1.4 Panel Drawing



## 2 GENERAL INFORMATION

### 2.1 Product Details

Items	Description	
Product	Stand alone	
Model Name	TC8717C	
FCC ID	G95-TC8717C	
Power Type	Internal power supply and Battery	
EUT Stage	<input checked="" type="checkbox"/> Product Unit	<input type="checkbox"/> Pre-Sample
Antenna Type	Please see Section 2.3	
Operating Band, EIRP power	U-NII-2A 5250~5350MHz	For Non-Beamforming
		IEEE 802.11a: 20.86dBm
		<input checked="" type="checkbox"/> IEEE 802.11ac (20MHz): 20.89dBm
		IEEE 802.11ac (40MHz): 20.85dBm
		IEEE 802.11ac (80MHz): 19.72dBm
		For Beamforming
	<input checked="" type="checkbox"/> IEEE 802.11ac (20MHz): 19.47dBm	
	IEEE 802.11ac (40MHz): 19.57dBm	
	IEEE 802.11ac (80MHz): 19.72dBm	
	U-NII-2C 5470~ 5725 MHz	For Non-Beamforming
		IEEE 802.11a: 20.85dBm
		<input checked="" type="checkbox"/> IEEE 802.11ac (20MHz): 20.89dBm
IEEE 802.11ac (40MHz): 21.07dBm		
IEEE 802.11ac (80MHz): 19.64dBm		
For Beamforming		
<input checked="" type="checkbox"/> IEEE 802.11ac (20MHz): 19.46dBm		
IEEE 802.11ac (40MHz): 19.79dBm		
IEEE 802.11ac (80MHz): 19.43dBm		
Product Type	For IEEE 802.11a: WLAN (1/3TX, 3RX) For IEEE 802.11n: WLAN (1/2/3TX, 3RX) For IEEE 802.11ac: WLAN (1/2/3TX, 3RX)	
Nominal Channel Bandwidth	20MHz / 40MHz / 80MHz	
Modulation	802.11a: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11n: (BPSK / QPSK / 16QAM / 64QAM).See the below table. 802.11ac:(BPSK / QPSK / 16QAM / 64QAM/ 256QAM).See the below table	



Data Rate (Mbps)	11a mode :OFDM (6/9/12/18/24/36/48/54) 11n(20MHz) mode(MCS0~MCS23) 11n(40MHz) mode(MCS0~MCS23) 11ac(20MHz) mode (MCS0~MCS9 for Nss1~Nss3) 11ac(40MHz) mode (MCS0~MCS9 for Nss1~Nss3) 11ac(80MHz) mode (MCS0~MCS9 for Nss1~Nss3)			
TPC Function	<input type="checkbox"/>	With TPC	<input checked="" type="checkbox"/>	Without TPC
Beam forming Function	<input checked="" type="checkbox"/>	With Beam forming for IEEE 802.11n/ac	<input type="checkbox"/>	Without Beam forming
DFS Operating Mode(s)	<input checked="" type="checkbox"/>	Master	<input type="checkbox"/>	Slave without radar detection
DFS Function	<input checked="" type="checkbox"/>	5250~5350MHz		
	<input checked="" type="checkbox"/>	5470~5725MHz		
	<input type="checkbox"/>	5600~5650MHz		
Off Channel CAC Feature Implemented	<input checked="" type="checkbox"/>	No		
Ad-hoc/Hotspot Mode	<input checked="" type="checkbox"/>	No Ad-hoc/Hotspot operation in 5150 - 5350 MHz and 5470 - 5725 MHz.		
User Access Restrictions	<input checked="" type="checkbox"/>	DFS controls (hardware or software) related to radar detection are NOT accessible to the user.		
I/O Ports	LAN Port x 4 USB Host Port x 2 LINE Port x 2 Cable + MoCA Port x 1(Coaxial type)			
Software Version	5.7.0mp1			
Associated Devices	single-range internal AC-DC power pack			

**2.2 Accessories**

1. AC Power Cord\*1, Unshielded 1.8m

**2.3 Table for Filed Antenna**

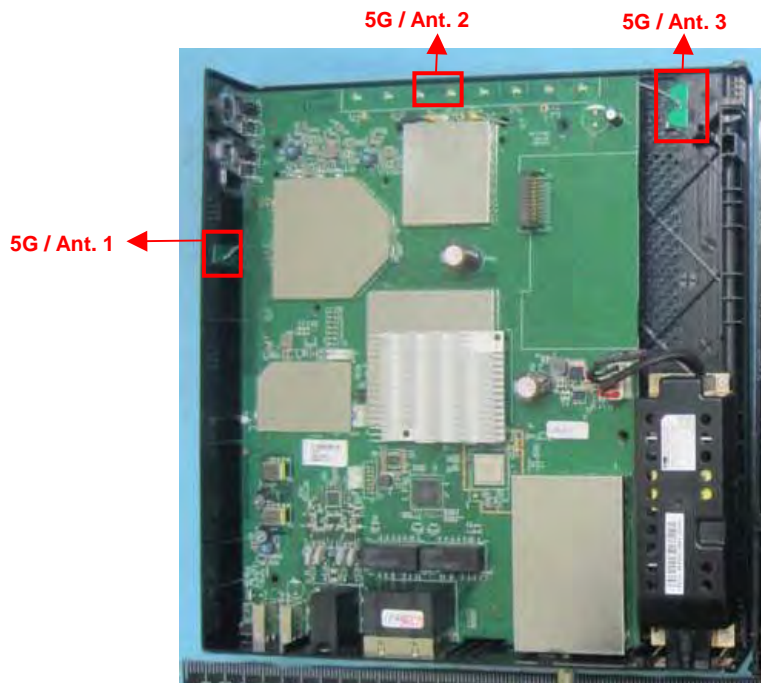
Ant.	Brand	Model Name	Antenna Type	Connector
1	WHAYU	C107-511031-A	PIFA Antenna	I-PEX
2	-	-	Printed Antenna	N/A
3	WHAYU	C107-511033-A	PIFA Antenna	I-PEX

**Antenna & Bandwidth**

Antenna	1st (TX)			2nd (TX)			3rd (TX)		
	20 MHz	40 MHz	80 MHz	20 MHz	40 MHz	80 MHz	20 MHz	40 MHz	80MHz
Bandwidth Mode									
802.11a	V	X	X	X	X	X	V	X	X
802.11n	V	V	X	V	V	X	V	V	X
802.11ac	V	V	V	V	V	V	V	V	V

Frequency	Antenna Gain (dBi)								
	Ant. 1 (WJ1)			Ant. 2 (WJ2)			Ant. 3 (WJ3)		
	20 MHz	40 MHz	80MHz	20 MHz	40 MHz	80MHz	20 MHz	40 MHz	80MHz
5260 MHz	5.98	-	-	6.21	-	-	6.10	-	-
5270 MHz	-	5.91	-	-	6.10	-	-	5.82	-
5290 MHz	-	-	5.93	-	-	5.77	-	-	5.81
5300 MHz	6.06	-	-	6.22	-	-	5.87	-	-
5310 MHz	-	6.06	-	-	6.22	-	-	5.87	-
5320 MHz	6.00	-	-	5.85	-	-	5.89	-	-
5500 MHz	6.36	-	-	5.43	-	-	5.30	-	-
5510 MHz	-	6.29	-	-	5.66	-	-	5.33	-
5530 MHz	-	-	5.88	-	-	5.06	-	-	5.15
5550 MHz	-	5.91	-	-	5.08	-	-	5.22	-
5580 MHz	6.04	-	-	5.01	-	-	5.15	-	-
5670 MHz	-	5.95	-	-	4.55	-	-	5.12	-
5700 MHz	6.46	-	-	5.17	-	-	5.59	-	-

Frequency	Directional Gain (dBi) for Beamforming and CDD mode								
	1 Stream 3TX Ant. 1 + 2 + 3			2 Stream 3TX Ant. 1 + 2 + 3			3 Stream 3TX Ant. 1 + 2 + 3		
	20 MHz	40 MHz	80MHz	20 MHz	40 MHz	80MHz	20 MHz	40 MHz	80MHz
5260 MHz	7.35	-	-	6.00	-	-	3.26	-	-
5270 MHz	-	7.24	-	-	5.84	-	-	3.14	-
5290 MHz	-	-	7.22	-	-	5.84	-	-	3.07
5300 MHz	7.61	-	-	6.31	-	-	3.52	-	-
5310 MHz	-	7.61	-	-	6.31	-	-	3.52	-
5320 MHz	7.52	-	-	6.24	-	-	3.42	-	-
5500 MHz	7.60	-	-	6.54	-	-	3.62	-	-
5510 MHz	-	7.73	-	-	6.63	-	-	3.72	-
5530 MHz	-	-	7.46	-	-	6.33	-	-	3.41
5550 MHz	-	7.42	-	-	6.28	-	-	3.36	-
5580 MHz	7.52	-	-	6.29	-	-	3.36	-	-
5670 MHz	-	7.01	-	-	6.07	-	-	3.36	-
5700 MHz	7.54	-	-	6.63	-	-	3.67	-	-



IEEE 802.11n Data Rate spec

Standard	INDEX	Data Rate (Mbps)		Standard	INDEX	Data Rate (Mbps)	
		LGI (800ns)	SIGI (400ns)			LGI (800ns)	SIGI (400ns)
11n 20MHz 1 stream	MCS0	6.5	7.2	11n 40MHz 1 stream	MCS0	13.5	15
	MCS1	13	14.4		MCS1	27	30
	MCS2	19.5	21.7		MCS2	40.5	45
	MCS3	26	28.9		MCS3	54	60
	MCS4	39	43.3		MCS4	81	90
	MCS5	52	57.8		MCS5	108	120
	MCS6	58.5	65		MCS6	121.5	135
	MCS7	65	72.2	MCS7	135	150	
11n 20MHz 2 stream	MCS8	13	14.4	11n 40MHz 2 stream	MCS8	27	30
	MCS9	26	28.9		MCS9	54	60
	MCS10	39	43.3		MCS10	81	90
	MCS11	52	57.8		MCS11	108	120
	MCS12	78	86.7		MCS12	162	180
	MCS13	104	115.6		MCS13	216	240
	MCS14	117	130		MCS14	243	270
	MCS15	130	144.4	MCS15	270	300	
11n 20MHz 3 stream	MCS16	19.5	21.7	11n 40MHz 3 stream	MCS16	40.5	45
	MCS17	39	43.3		MCS17	81	90
	MCS18	58.5	65		MCS18	121.5	135
	MCS19	78	86.7		MCS19	162	180
	MCS20	117	130		MCS20	243	270
	MCS21	156	173.3		MCS21	324	360
	MCS22	175.5	195		MCS22	364.5	405
	MCS23	195	216.7	MCS23	405	450	

IEEE 802.11ac Data Rate spec

Standard	INDEX	Data Rate (Mbps)		Standard	INDEX	Data Rate (Mbps)		Standard	INDEX	Data Rate (Mbps)	
		LGI (800ns)	SGI (400ns)			LGI (800ns)	SGI (400ns)			LGI (800ns)	SGI (400ns)
11ac 20MHz 1 stream	MCS0	6.5	7.2	11ac 40MHz 1 stream	MCS0	13.5	15	11ac 80MHz 1 stream	MCS0	29.3	32.5
	MCS1	13	14.4		MCS1	27	30		MCS1	58.5	65.0
	MCS2	19.5	21.7		MCS2	40.5	45		MCS2	87.8	97.5
	MCS3	26	28.9		MCS3	54	60		MCS3	117.0	130.0
	MCS4	39	43.3		MCS4	81	90		MCS4	175.5	195.0
	MCS5	52	57.8		MCS5	108	120		MCS5	234.0	260.0
	MCS6	58.5	65		MCS6	121.5	135		MCS6	263.3	292.5
	MCS7	65	72.2		MCS7	135	150		MCS7	292.5	325.0
	MCS8	78	86.7		MCS8	162.0	180.0		MCS8	351.0	390.0
	MCS9	Note	Note		MCS9	180.0	200.0		MCS9	390.0	433.3

NOTE: MCS 9 is invalid due to mod(NCBPS/NES, DR) not being equal to 0.

11ac 20MHz 2 stream	MCS0	13.0	14.4	11ac 40MHz 2 stream	MCS0	27.0	30.0	11ac 80MHz 2 stream	MCS0	58.5	65.0
	MCS1	26.0	28.9		MCS1	54.0	60.0		MCS1	117.0	130.0
	MCS2	39.0	43.3		MCS2	81.0	90.0		MCS2	175.5	195.0
	MCS3	52.0	57.8		MCS3	108.-0	120.0		MCS3	234.0	260.0
	MCS4	78.0	86.7		MCS4	162.0	180.0		MCS4	351.0	390.0
	MCS5	104.0	115.6		MCS5	216.0	240.0		MCS5	468.0	520.0
	MCS6	117.0	130.0		MCS6	243.0	270.0		MCS6	526.5	585.0
	MCS7	130.0	144.4		MCS7	270.0	300.0		MCS7	585.0	650.0
	MCS8	156.0	173.3		MCS8	324.0	360.0		MCS8	702.0	780.0
	MCS9	13.0	14.4		MCS9	360.0	400.0		MCS9	780.0	866.7
11ac 20MHz 3 stream	MCS0	19.5	21.7	11ac 40MHz 3 stream	MCS0	40.5	45	11ac 80MHz 3 stream	MCS0	87.8	97.5
	MCS1	39	43.3		MCS1	81	90		MCS1	175.5	195.0
	MCS2	58.5	65		MCS2	121.5	135		MCS2	263.3	292.5
	MCS3	78	86.7		MCS3	162	180		MCS3	351.0	190.0
	MCS4	117	130		MCS4	243	270		MCS4	526.5	585.0
	MCS5	156	173.3		MCS5	324	360		MCS5	702.0	780.0
	MCS6	175.5	195		MCS6	364.5	405		MCS6	Note	Note
	MCS7	195	216.7		MCS7	405	450		MCS7	877.5	975.0
	MCS8	234.0	260.0		MCS8	486.0	540.0		MCS8	1053.0	1170.0
	MCS9	260.0	228.9		MCS9	540.0	600.0		MCS9	1170.0	1300.0

NOTE: MCS 6 is invalid due to mod(NCBPS/NES, DR) not being equal to 0.

2.4 Transmit Operating Modes

Transmit Operating Mode				Transmit Multiple Antennas						
<input checked="" type="checkbox"/>	Operating mode 1 (single antenna)			<input checked="" type="checkbox"/>	1TX					
<input checked="" type="checkbox"/>	Operating mode 2 (multiple antenna, no beam forming)			<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	4TX	
<input checked="" type="checkbox"/>	Operating mode 3 (multiple antenna, with beam forming)			<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	4TX	
<input checked="" type="checkbox"/>	802.11a	Operating mode	<input checked="" type="checkbox"/>	1TX	<input type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift
<input checked="" type="checkbox"/>	802.11n(20MHz)	Operating mode	<input checked="" type="checkbox"/>	1TX	<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift
<input checked="" type="checkbox"/>	802.11n(40MHz)	Operating mode	<input checked="" type="checkbox"/>	1TX	<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift
<input checked="" type="checkbox"/>	802.11ac(20MHz)	Operating mode	<input checked="" type="checkbox"/>	1TX	<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift
<input checked="" type="checkbox"/>	802.11ac(40MHz)	Operating mode	<input checked="" type="checkbox"/>	1TX	<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift
<input checked="" type="checkbox"/>	802.11ac(80MHz)	Operating mode	<input checked="" type="checkbox"/>	1TX	<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift

Note 1: For IEEE802.11n, MCS0~MCS7: 1TX; MCS8~MCS15: 2TX; MCS0~MCS23: 3TX

Note 2: For IEEE802.11ac VHT20/40/80, MCS0~MCS9: 1 Stream 3TX; MCS0~MCS9: 2 Stream 3TX; MCS0~MCS9: 3 Stream 3TX

Note 3: 2S2T was exempted from testing because it's covered by 2S3T MCS0 Nss2.

2.5 Table for Carrier Frequencies

12 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5250~5350 MHz Band 2	52	5260 MHz	60	5300 MHz
	56	5280 MHz	64	5320 MHz
5470~5725 MHz Band 3	100	5500 MHz	116	5580 MHz
	104	5520 MHz	132	5660 MHz
	108	5540 MHz	136	5680 MHz
	112	5560 MHz	140	5700 MHz

5 channels are provided for 802.11n, 802.11ac (40MHz):

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5250~5350 MHz Band 2	54	5270 MHz	62	5310 MHz
5470~5725 MHz Band 3	102	5510 MHz	134	5670 MHz
	110	5550 MHz	-	-

2 channels are provided for 802.11ac (80MHz):

Frequency Band	Channel No.	Frequency
5250~5350 MHz Band 2	58	5290 MHz
5470~5725 MHz Band 3	106	5530 MHz

**2.6 Table for Test Modes**

Investigation has been done on all the possible configurations for searching the worst cases.

The following table is a list of the test modes shown in this test report.

Test Items	Mode	Note	Channel	Data Rate	Antenna
AC Power Line Conducted Emissions	11ac(80MHz)	OFDM/BPSK	106	Nss1MCS0	1+2+3 (1S3T, TxBF2)
Emission bandwidth	11a	OFDM/BPSK	52/60/64	6Mbps	1
			100/116/ 140	6Mbps	1+2+3 (1S3T, CDD2)
	11ac(20MHz)		52/60/64	Nss1MCS0	1
			100/116/ 140	Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(40MHz)		54/62	Nss1MCS0	1
			102/110/ 134	Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(80MHz)		58	Nss1MCS0	1
			106	Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(20MHz) Beamforming		52/60/64 100/116/ 140	Nss1MCS0	1+2+3 (1S3T, TxBF2)
	11ac(40MHz) Beamforming		54/62 102/110/ 134	Nss1MCS0	1+2+3 (1S3T, TxBF2)
11ac(80MHz) Beamforming	58 106	Nss1MCS0	1+2+3 (1S3T, TxBF2)		
Maximum Conducted Output Power (Average)	11a	OFDM/BPSK	52/60/64	6Mbps	1
			100/116/ 140	6Mbps	1+2+3 (1S3T, CDD2)
	11ac(20MHz)		52/60/64	Nss1MCS0	1
			100/116/ 140	Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(40MHz)		54/62	Nss1MCS0	1
			102/110/ 134	Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(80MHz)		58	Nss1MCS0	1
			106	Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(20MHz) Beamforming		52/60/64 100/116/ 140	Nss1MCS0	1+2+3 (1S3T, TxBF2)



	11ac(40MHz) Beamforming		54/62 102/110/ 134	Nss1MCS0	1+2+3 (1S3T, TxBF2)
	11ac(80MHz) Beamforming		58 106	Nss1MCS0	1+2+3 (1S3T, TxBF2)
Power Spectral Density	11a	OFDM/BPSK	52/60/64 100/116/ 140	6Mbps	1
				6Mbps	1+2+3 (1S3T, CDD2)
	11ac(20MHz)		52/60/64 100/116/ 140	Nss1MCS0	1
			Nss1MCS0	1+2+3 (1S3T, CDD2)	
	11ac(40MHz)		54/62 102/110/ 134	Nss1MCS0	1
				Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(80MHz)		58 106	Nss1MCS0	1
				Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(20MHz) Beamforming		52/60/64 100/116/ 140	Nss1MCS0	1+2+3 (1S3T, TxBF2)
11ac(40MHz) Beamforming	54/62 102/110/ 134	Nss1MCS0	1+2+3 (1S3T, TxBF2)		
11ac(80MHz) Beamforming	58 106	Nss1MCS0	1+2+3 (1S3T, TxBF2)		
Unwanted emissions in the restricted bands Above 1GHz (Radiated)	11a	OFDM/BPSK	52/60/64 100/116/ 140	6Mbps	1
				6Mbps	1+2+3 (1S3T, CDD2)
	11ac(20MHz)		52/60/64 100/116/ 140	Nss1MCS0	1
				Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(40MHz)		54/62 102/110/ 134	Nss1MCS0	1
				Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(80MHz)		58 106	Nss1MCS0	1
				Nss1MCS0	1+2+3 (1S3T, CDD2)
11ac(20MHz) Beamforming	52/60/64 100/116/ 140	Nss1MCS0	1+2+3 (1S3T, TxBF2)		
11ac(40MHz) Beamforming	54/62 102/110/ 134	Nss1MCS0	1+2+3 (1S3T, TxBF2)		
11ac(80MHz) Beamforming	58 106	Nss1MCS0	1+2+3 (1S3T, TxBF2)		

Unwanted Emission out of the restricted bands Above 1GHz (Radiated)	11a	OFDM/BPSK	52/60/64 100/116/ 140	6Mbps	1
				6Mbps	1+2+3 (1S3T, CDD2)
	11ac(20MHz)		52/60/64 100/116/ 140	Nss1MCS0	1
				Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(40MHz)		54/62 102/110/ 134	Nss1MCS0	1
				Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(80MHz)		58 106	Nss1MCS0	1
				Nss1MCS0	1+2+3 (1S3T, CDD2)
	11ac(20MHz) Beamforming		52/60/64 100/116/ 140	Nss1MCS0	1+2+3 (1S3T, TxBF2)
	11ac(40MHz) Beamforming		54/62 102/110/ 134	Nss1MCS0	1+2+3 (1S3T, TxBF2)
	11ac(80MHz) Beamforming		58 106	Nss1MCS0	1+2+3 (1S3T, TxBF2)
Radiated Emissions Below 1GHz(Radiated)	11ac(80MHz)	OFDM/BPSK	106	Nss1MCS0	1+2+3 (1S3T, TxBF2)
Frequency Stability	20MHz	OFDM/BPSK	52/60/64 100/116/ 140	-	1, 2, 3
	40MHz		54/62 102/110/ 134	-	1, 2, 3
	80MHz		58 106	-	1, 2, 3

Note 1: 802.11n HT20/40 1TX/2TX/3TX were exempted from testing because they're covered by 802.11ac VHT20/40 1TX/2TX/3TX for the same modulation, bandwidth and frequency.

Note 2: 802.11ac VHT20/40/80 3TX MCS0 Nss2/3 were exempted from testing because they're covered by 802.11ac VHT20/40/80 3TX MCS0 Nss1.

2.7 Table for Testing Locations

Test Site Location					
Address:	No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.				
TEL:	886-3-656-9065				
FAX:	886-3-656-9085				
Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH01-CB	SAC	Hsin Chu	262045	IC 4086D	-
CO02-CB	Conduction	Hsin Chu	262045	IC 4086D	-
TH01-CB	OVEN Room	Hsin Chu	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC).

2.8 Duty Cycle

For Non-Beamforming

For 1 Stream 1TX:

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.046	2.070	98.84%	0.05	0.01
802.11ac 20MHz	1.936	1.955	99.03%	0.04	0.01
802.11ac 40MHz	0.955	0.982	97.25%	0.12	1.05
802.11ac 80MHz	2.072	2.164	95.75%	0.19	0.48

For 1 Stream 3TX:

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.070	2.090	99.04%	0.04	0.01
802.11ac 20MHz	1.930	1.950	98.97%	0.04	0.01
802.11ac 40MHz	0.948	0.972	97.53%	0.11	1.05
802.11ac 80MHz	0.460	0.488	94.26%	0.26	2.17

For Beamforming

For 1 Stream 3TX:

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11ac 20MHz	1.950	2.040	95.59%	0.20	0.51
802.11ac 40MHz	0.950	1.046	90.82%	0.42	1.05
802.11ac 80MHz	0.466	0.564	82.62%	0.83	2.15

**2.9 Table for Class II Change**

This product is an extension of original one reported under Sporton project number: 422438

Below is the table for the change of the product with respect to the original one.

<b>Modifications</b>	<b>Performance Checking</b>
1. Adding 5GHz Band 2 and Band 3 (5250~5350 MHz, 5470~5725 MHz) for this device.	It was performed for all tests.
2. Changing the applicant's name.	It is not necessary to perform for all tests.

Note: There is no change in hardware or in existing RF relevant portion.

**2.10 Table for Supporting Units**

For Test Site No: CO02-CB and TH01-CB

<b>Support Unit</b>	<b>Brand</b>	<b>Model</b>	<b>FCC ID</b>
Notebook	DELL	E6430	DoC

For Test Site No: 03CH01-CB

For Non-Beamforming

<b>Support Unit</b>	<b>Brand</b>	<b>Model</b>	<b>FCC ID</b>
Notebook	DELL	E4300	DoC

For Beamforming

<b>Support Unit</b>	<b>Brand</b>	<b>Model</b>	<b>FCC ID</b>
Notebook	DELL	E4300	DoC
Notebook	DELL	E4300	DoC
WLAN Dongle	Netgear	A6200	PY31220200

**2.11 Table for Parameters of Test Software Setting**

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Non-Beamforming

<b>The Power Setting Parameter</b>						
<b>Test Software Version</b>		5.7.0mp1				
<b>Worst Modulation Mode</b>		<b>Number of Transmit Chains (NTX)</b>	<b>Frequency (MHz)</b>	<b>Maximum Output Power (dBm)</b>	<b>Power Setting</b>	<b>Data Rate / MCS</b>
Ant. 1	802.11a	1 Stream 1TX	5260	20.86	85	6Mbps
Ant. 1	802.11a	1 Stream 1TX	5300	19.18	75	6Mbps
Ant. 1	802.11a	1 Stream 1TX	5320	18.27	70	6Mbps
Ant. 1	802.11a	1 Stream 1TX	5500	18.05	70	6Mbps
Ant. 1	802.11a	1 Stream 1TX	5580	20.80	83	6Mbps
Ant. 1	802.11a	1 Stream 1TX	5700	19.67	76	6Mbps
Ant.1+2+3, CDD2	802.11a	1 Stream 3TX	5260	20.74	62	6Mbps
Ant.1+2+3, CDD2	802.11a	1 Stream 3TX	5300	19.97	57	6Mbps
Ant.1+2+3, CDD2	802.11a	1 Stream 3TX	5320	19.55	56	6Mbps
Ant.1+2+3, CDD2	802.11a	1 Stream 3TX	5500	19.95	57	6Mbps
Ant.1+2+3, CDD2	802.11a	1 Stream 3TX	5580	20.85	60	6Mbps
Ant.1+2+3, CDD2	802.11a	1 Stream 3TX	5700	20.36	58	6Mbps
Ant. 1	802.11ac20MHz	1 Stream 1TX	5260	20.89	85	Nss1MCS0 (6.5)
Ant. 1	802.11ac20MHz	1 Stream 1TX	5300	18.37	72	Nss1MCS0 (6.5)
Ant. 1	802.11ac20MHz	1 Stream 1TX	5320	18.07	70	Nss1MCS0 (6.5)
Ant. 1	802.11ac20MHz	1 Stream 1TX	5500	18.46	72	Nss1MCS0 (6.5)
Ant. 1	802.11ac20MHz	1 Stream 1TX	5580	20.89	84	Nss1MCS0 (6.5)
Ant. 1	802.11ac20MHz	1 Stream 1TX	5700	19.60	76	Nss1MCS0 (6.5)
Ant.1+2+3, CDD2	802.11ac20MHz	1 Stream 3TX	5260	20.69	62	Nss1MCS0 (6.5)
Ant.1+2+3, CDD2	802.11ac20MHz	1 Stream 3TX	5300	19.75	58	Nss1MCS0 (6.5)
Ant.1+2+3, CDD2	802.11ac20MHz	1 Stream 3TX	5320	20.17	59	Nss1MCS0 (6.5)
Ant.1+2+3, CDD2	802.11ac20MHz	1 Stream 3TX	5500	19.93	58	Nss1MCS0 (6.5)
Ant.1+2+3, CDD2	802.11ac20MHz	1 Stream 3TX	5580	20.80	61	Nss1MCS0 (6.5)
Ant.1+2+3, CDD2	802.11ac20MHz	1 Stream 3TX	5700	20.33	59	Nss1MCS0 (6.5)
Ant. 1	802.11ac40MHz	1 Stream 1TX	5270	18.70	78	Nss1MCS0 (13.5)
Ant. 1	802.11ac40MHz	1 Stream 1TX	5310	17.89	72	Nss1MCS0 (13.5)
Ant. 1	802.11ac40MHz	1 Stream 1TX	5510	19.07	76	Nss1MCS0 (13.5)
Ant. 1	802.11ac40MHz	1 Stream 1TX	5550	21.07	86	Nss1MCS0 (13.5)
Ant. 1	802.11ac40MHz	1 Stream 1TX	5670	18.99	76	Nss1MCS0 (13.5)
Ant.1+2+3, CDD2	802.11ac40MHz	1 Stream 3TX	5270	20.85	64	Nss1MCS0 (13.5)

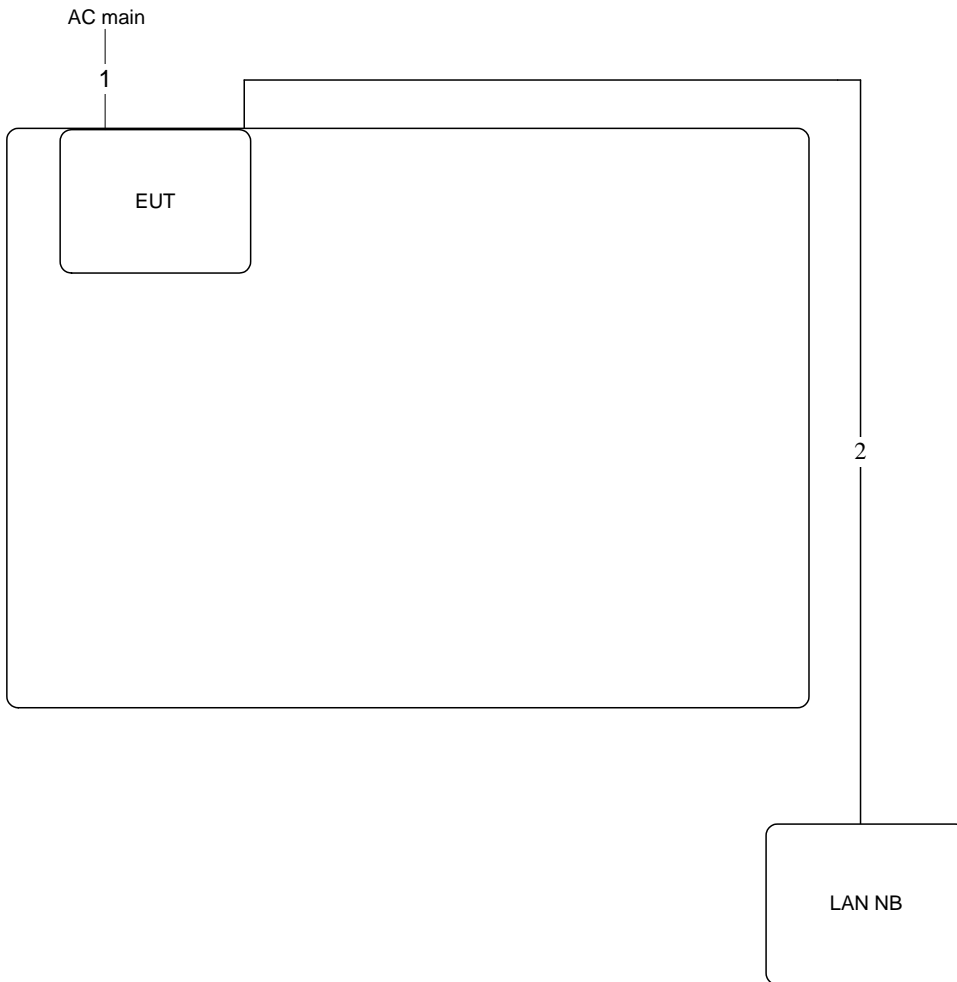
Ant. 1+2+3, CDD2	802.11ac40MHz	1 Stream 3TX	5310	20.77	63	Nss1MCS0 (13.5)
Ant. 1+2+3, CDD2	802.11ac40MHz	1 Stream 3TX	5510	20.70	62	Nss1MCS0 (13.5)
Ant. 1+2+3, CDD2	802.11ac40MHz	1 Stream 3TX	5550	20.94	62	Nss1MCS0 (13.5)
Ant. 1+2+3, CDD2	802.11ac40MHz	1 Stream 3TX	5670	20.94	62	Nss1MCS0 (13.5)
Ant. 1	802.11ac80MHz	1 Stream 1TX	5290	17.32	72	Nss1MCS0 (29.3)
Ant. 1	802.11ac80MHz	1 Stream 1TX	5530	16.53	70	Nss1MCS0 (29.3)
Ant. 1+2+3, CDD2	802.11ac80MHz	1 Stream 3TX	5290	19.72	63	Nss1MCS0 (29.3)
Ant. 1+2+3, CDD2	802.11ac80MHz	1 Stream 3TX	5530	19.64	58	Nss1MCS0 (29.3)

For Beamforming

The Power Setting Parameter						
Test Software Version		5.7.0mp1				
Worst Modulation Mode		Number of Transmit Chains (NTX)	Frequency (MHz)	Maximum Output Power (dBm)	Power Setting	Data Rate / MCS
Ant. 1+2+3, TxBF2	802.11ac20MHz	1 Stream 3TX	5260	19.47	58	Nss1MCS0 (6.5)
Ant. 1+2+3, TxBF2	802.11ac20MHz	1 Stream 3TX	5300	18.06	51	Nss1MCS0 (6.5)
Ant. 1+2+3, TxBF2	802.11ac20MHz	1 Stream 3TX	5320	17.19	47	Nss1MCS0 (6.5)
Ant. 1+2+3, TxBF2	802.11ac20MHz	1 Stream 3TX	5500	16.89	47	Nss1MCS0 (6.5)
Ant. 1+2+3, TxBF2	802.11ac20MHz	1 Stream 3TX	5580	19.46	56	Nss1MCS0 (6.5)
Ant. 1+2+3, TxBF2	802.11ac20MHz	1 Stream 3TX	5700	19.44	56	Nss1MCS0 (6.5)
Ant. 1+2+3, TxBF2	802.11ac40MHz	1 Stream 3TX	5270	19.57	61	Nss1MCS0 (13.5)
Ant. 1+2+3, TxBF2	802.11ac40MHz	1 Stream 3TX	5310	19.35	59	Nss1MCS0 (13.5)
Ant. 1+2+3, TxBF2	802.11ac40MHz	1 Stream 3TX	5510	19.24	58	Nss1MCS0 (13.5)
Ant. 1+2+3, TxBF2	802.11ac40MHz	1 Stream 3TX	5550	19.52	58	Nss1MCS0 (13.5)
Ant. 1+2+3, TxBF2	802.11ac40MHz	1 Stream 3TX	5670	19.79	60	Nss1MCS0 (13.5)
Ant. 1+2+3, TxBF2	802.11ac80MHz	1 Stream 3TX	5290	19.72	63	Nss1MCS0 (29.3)
Ant. 1+2+3, TxBF2	802.11ac80MHz	1 Stream 3TX	5530	19.43	57	Nss1MCS0 (29.3)

**2.12 Test Configuration**

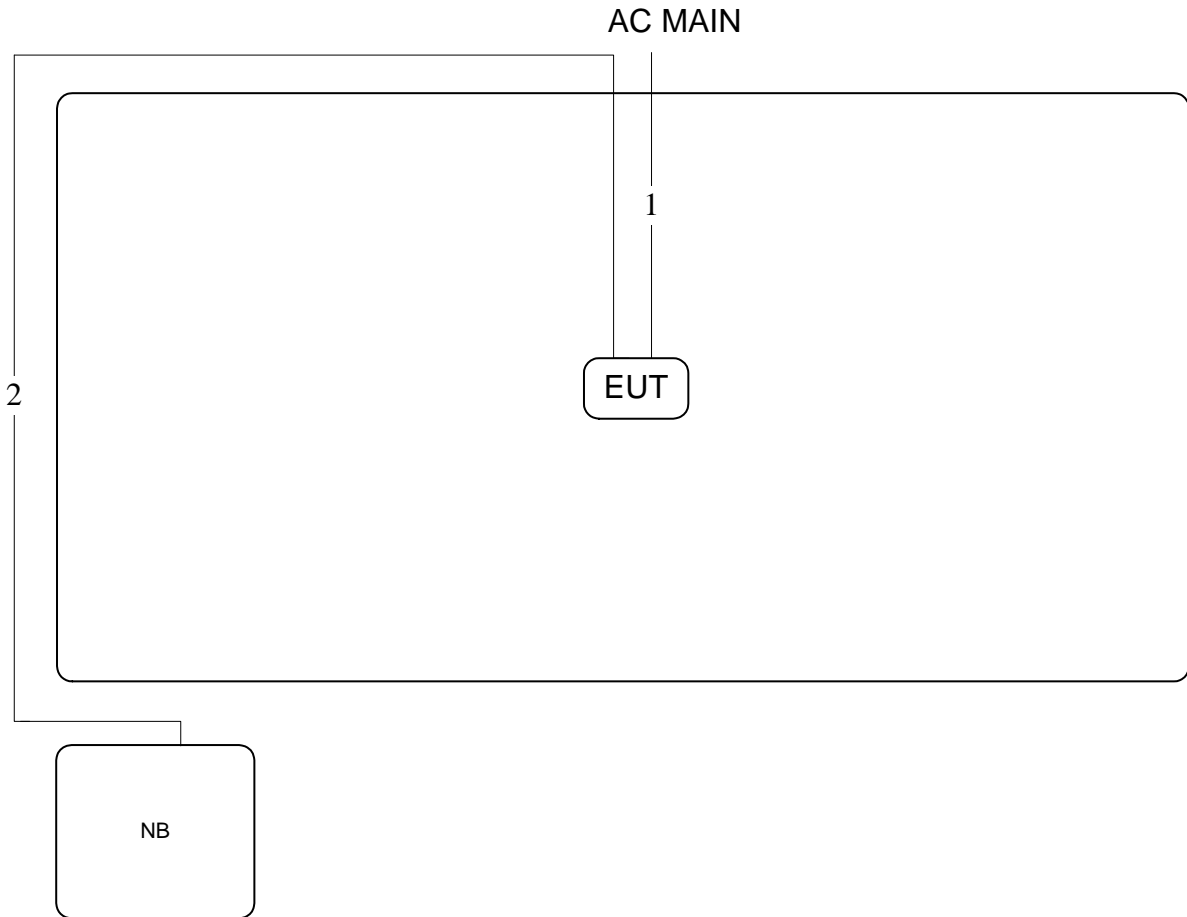
**2.12.1 AC Power Line Conduction Emissions Test Configuration**



Item	Connection	Shielded	Length
1	Power cable	No	1.8M
2	RJ-45 cable	No	10M

**2.12.2 Radiation Emissions Test Configuration**

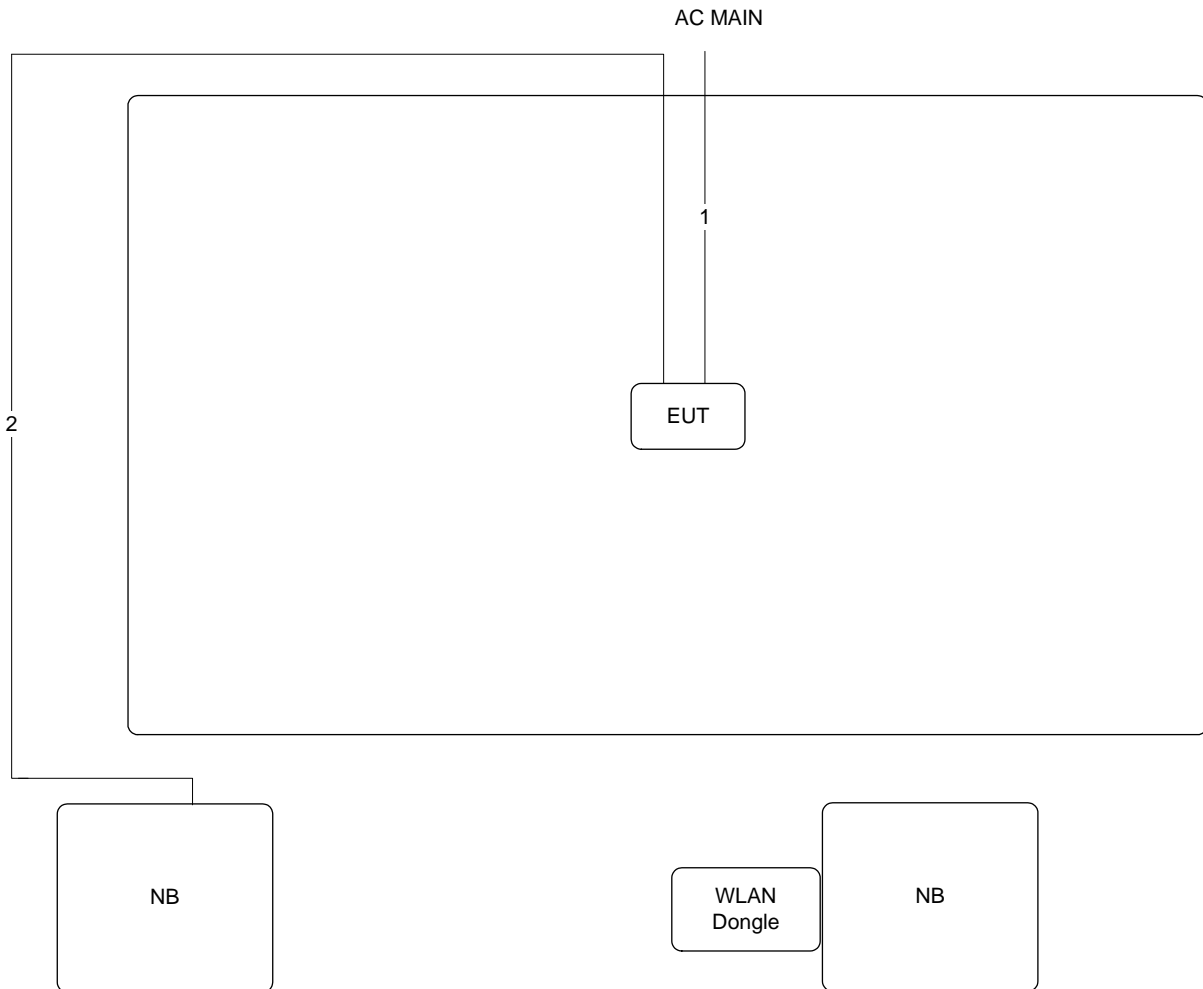
For Non-Beamforming



Item	Connection	Shielded	Length
1	Power cable	No	1.8M
2	RJ-45 cable	No	10M



For Beamforming



Item	Connection	Shielded	Length
1	Power cable	No	1.8M
2	RJ-45 cable	No	10M

### 3 TEST RESULT

#### 3.1 AC Power Line Conducted Emissions Measurement

##### 3.1.1 Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

##### 3.1.2 Measuring Instruments and Setting

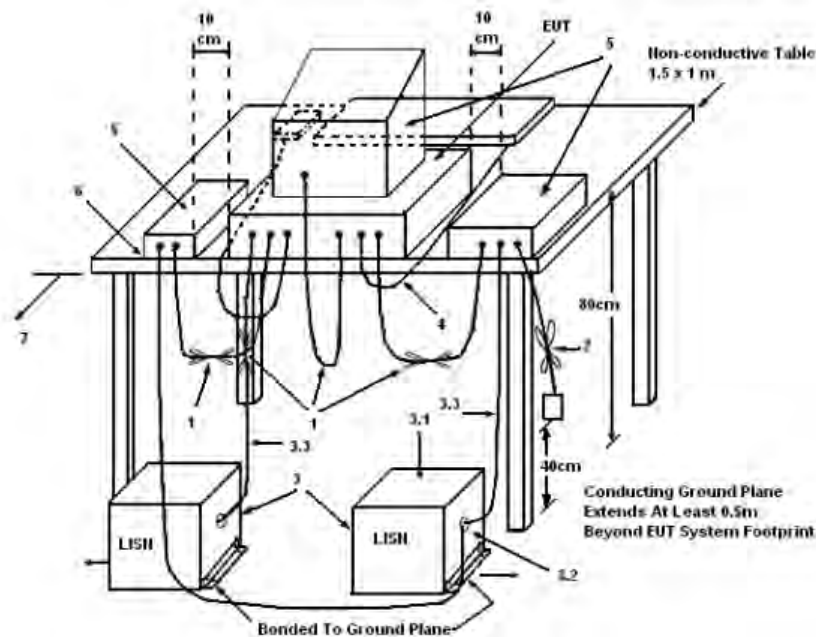
Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

##### 3.1.3 Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 kHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

**3.1.4 Test Setup Layout**



**LEGEND:**

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
2. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3. EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, reference ground plane.
4. All other equipment powered from additional LISN(s).
5. Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
8. Non-EUT components of EUT system being tested.
9. Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
10. Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

**3.1.5 Test Deviation**

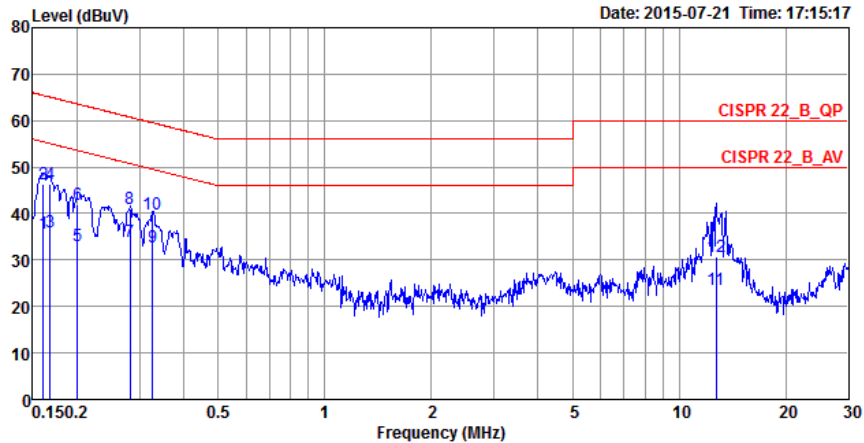
There is no deviation with the original standard.

**3.1.6 EUT Operation during Test**

The EUT was placed on the test table and programmed in normal function.

3.1.7 Results of AC Power Line Conducted Emissions Measurement

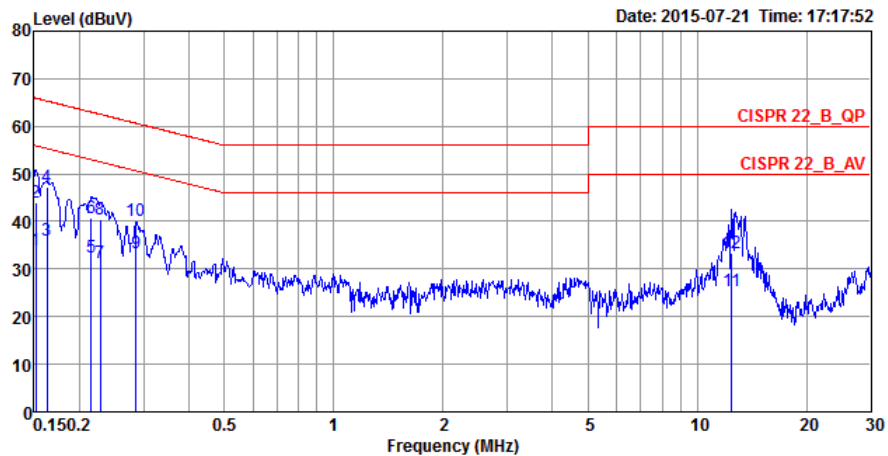
Temperature	22°C	Humidity	60%
Test Engineer	Ryo Fan	Phase	Line
Configuration	802.11ac 80MHz		



	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.1607	35.71	-19.72	55.43	25.54	10.00	0.17	LINE	Average
2	0.1607	46.45	-18.98	65.43	36.28	10.00	0.17	LINE	QP
3	0.1677	36.14	-18.94	55.08	25.97	10.00	0.17	LINE	Average
4	0.1677	46.26	-18.82	65.08	36.09	10.00	0.17	LINE	QP
5	0.2007	32.98	-20.60	53.58	22.78	10.01	0.19	LINE	Average
6	0.2007	41.82	-21.76	63.58	31.62	10.01	0.19	LINE	QP
7	0.2818	33.81	-16.95	50.76	23.61	10.01	0.19	LINE	Average
8	0.2818	40.90	-19.86	60.76	30.70	10.01	0.19	LINE	QP
9	0.3268	32.86	-16.67	49.53	22.65	10.01	0.20	LINE	Average
10	0.3268	39.85	-19.68	59.53	29.64	10.01	0.20	LINE	QP
11	12.7161	23.55	-26.45	50.00	12.86	10.28	0.41	LINE	Average
12	12.7161	30.66	-29.34	60.00	19.97	10.28	0.41	LINE	QP

Note 1: The test was passed at the minimum margin that marked by the frame in the following data  
 Note 2: The emission levels of other frequencies were very low against the limit.  
 Note 3: Q.P. and AV. are abbreviations of quasi-peak and average individually.  
 Note 4: Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level  
 Note 5: Over Limit value = level - Limit value

<b>Temperature</b>	22°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Ryo Fan	<b>Phase</b>	Neutral
<b>Configuration</b>	802.11ac 80MHz		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1516	33.90	-22.01	55.91	23.73	10.00	0.17	NEUTRAL	Average
2	0.1516	44.02	-21.89	65.91	33.85	10.00	0.17	NEUTRAL	QP
3	0.1624	35.96	-19.38	55.34	25.79	10.00	0.17	NEUTRAL	Average
4	0.1624	47.33	-18.01	65.34	37.16	10.00	0.17	NEUTRAL	QP
5	0.2151	32.33	-20.68	53.01	22.13	10.01	0.19	NEUTRAL	Average
6	0.2151	40.86	-22.15	63.01	30.66	10.01	0.19	NEUTRAL	QP
7	0.2280	31.24	-21.28	52.52	21.04	10.01	0.19	NEUTRAL	Average
8	0.2280	40.46	-22.06	62.52	30.26	10.01	0.19	NEUTRAL	QP
9	0.2863	33.28	-17.35	50.63	23.08	10.01	0.19	NEUTRAL	Average
10	0.2863	40.09	-20.54	60.63	29.89	10.01	0.19	NEUTRAL	QP
11	12.4495	25.34	-24.66	50.00	14.67	10.27	0.40	NEUTRAL	Average
12	12.4495	33.34	-26.66	60.00	22.67	10.27	0.40	NEUTRAL	QP

Note 1: The test was passed at the minimum margin that marked by the frame in the following data  
 Note 2: The emission levels of other frequencies were very low against the limit.  
 Note 3: Q.P. and AV. are abbreviations of quasi-peak and average individually.  
 Note 4: Corrected Reading (dBμV) = LISN Factor + Cable Loss + Read Level = Level  
 Note 5: Over Limit value = level - Limit value

### 3.2 Emission Bandwidth and 99% Occupied Bandwidth Measurement

#### 3.2.1 Limit

No restriction limits

#### 3.2.2 Measuring Instruments and Setting

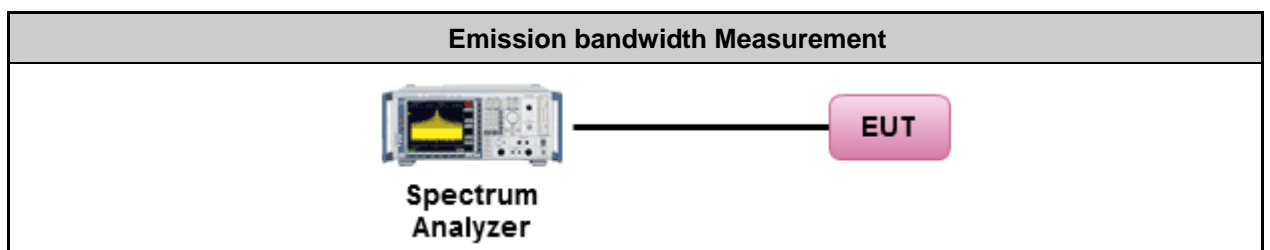
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

26dB Bandwidth	
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW > RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth	
Spectrum Parameters	Setting
Span	1.5 times to 5.0 times the OBW
RBW	1 % to 5 % of the OBW
VBW	≥ 3 x RBW
Detector	Peak
Trace	Max Hold

#### 3.2.3 Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Test was performed in accordance with Measurement of Digital Transmission Systems Operating under 789033 D02 General UNII Test Procedures New Rules v01, in section "Emission bandwidth (C)(1)", & "99 Percent Occupied Bandwidth"(D) 06/06/2014.
3. When measuring Emission bandwidth with multiple antenna systems, add every result of the values by mathematic formula.

#### 3.2.4 Test Setup Layout



**3.2.5 Test Deviation**

There are no deviation with the original standard.

**3.2.6 EUT Operation during Test**

The EUT was programmed to be in continuously transmitting mode.

**3.2.7 Test Result for Emission bandwidth**

**For Non-Beamforming**

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11a
<b>Duty Cycle</b>	<6Mbps, Ant. 1 (1S1T)>: 98.84% <6Mbps, Ant. 1+2+3 (1S3T, CDD2)>: 99.04%		

**Configuration IEEE 802.11a**

**<6Mbps, Ant. 1 (1S1T)>**

Channel	Frequency	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
52	5260 MHz	28.87	17.28
60	5300 MHz	20.70	17.02
64	5320 MHz	20.52	16.93
100	5500 MHz	20.43	16.93
116	5580 MHz	26.26	17.28
140	5700 MHz	20.78	17.02

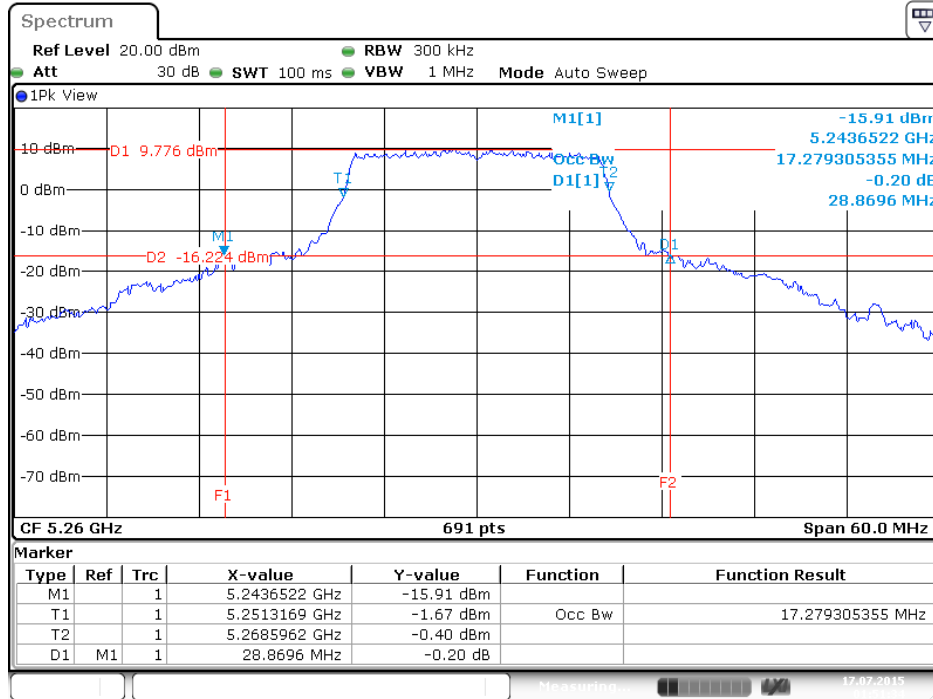
**<6Mbps, Ant. 1+2+3 (1S3T, CDD2)>**

Channel	Frequency	26dB Bandwidth (MHz)			99% Occupied Bandwidth (MHz)		
		Ant. 1	Ant. 2	Ant. 3	Ant. 1	Ant. 2	Ant. 3
52	5260 MHz	20.43	16.84	20.34	16.84	20.26	16.93
60	5300 MHz	20.34	16.84	20.26	16.84	20.26	16.84
64	5320 MHz	20.34	16.75	20.34	16.84	20.34	16.93
100	5500 MHz	20.34	16.84	20.43	16.84	20.26	16.93
116	5580 MHz	20.34	16.84	20.26	16.75	20.34	16.93
140	5700 MHz	20.34	16.84	20.26	16.75	20.34	16.84



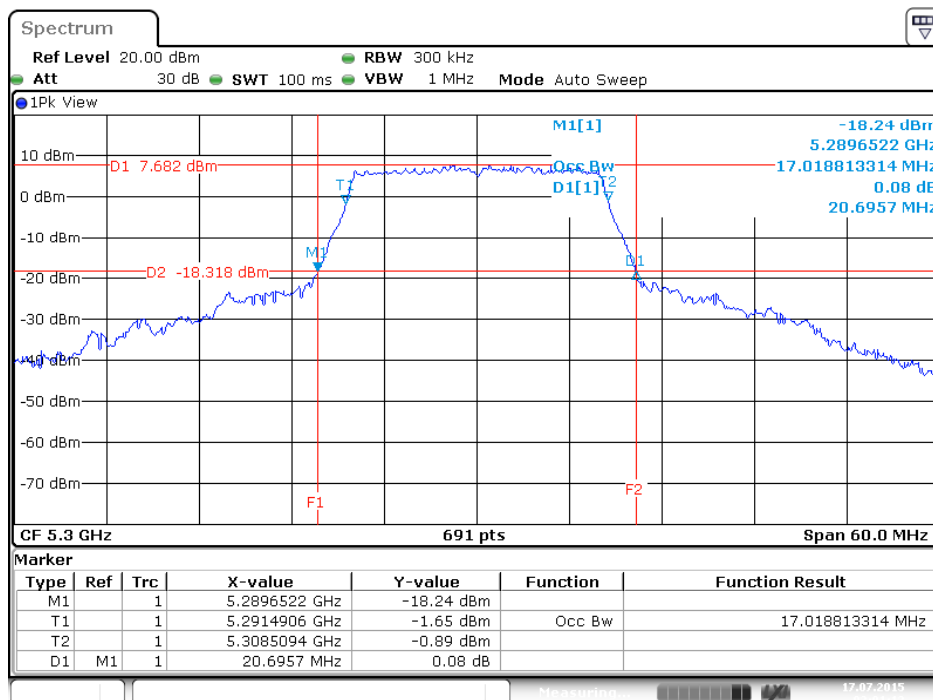
For <6Mbps, Ant. 1 (1S1T)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 52 / Ant. 1 (1S1T)



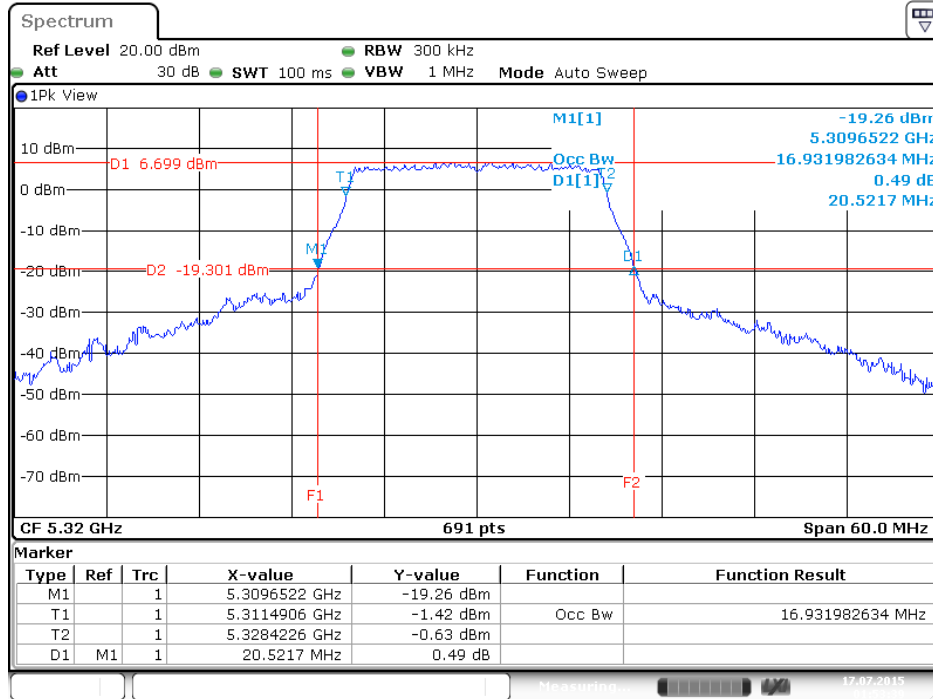
Date: 17 JUL 2015 01:51:34

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 60 / Ant. 1 (1S1T)



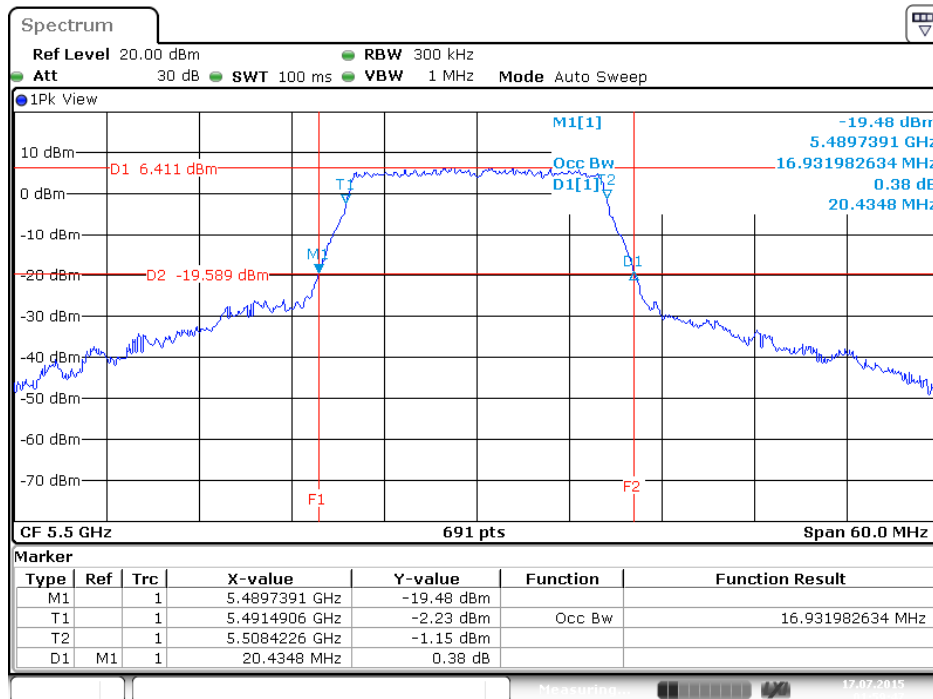
Date: 17 JUL 2015 02:01:12

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 64 / Ant. 1 (1S1T)



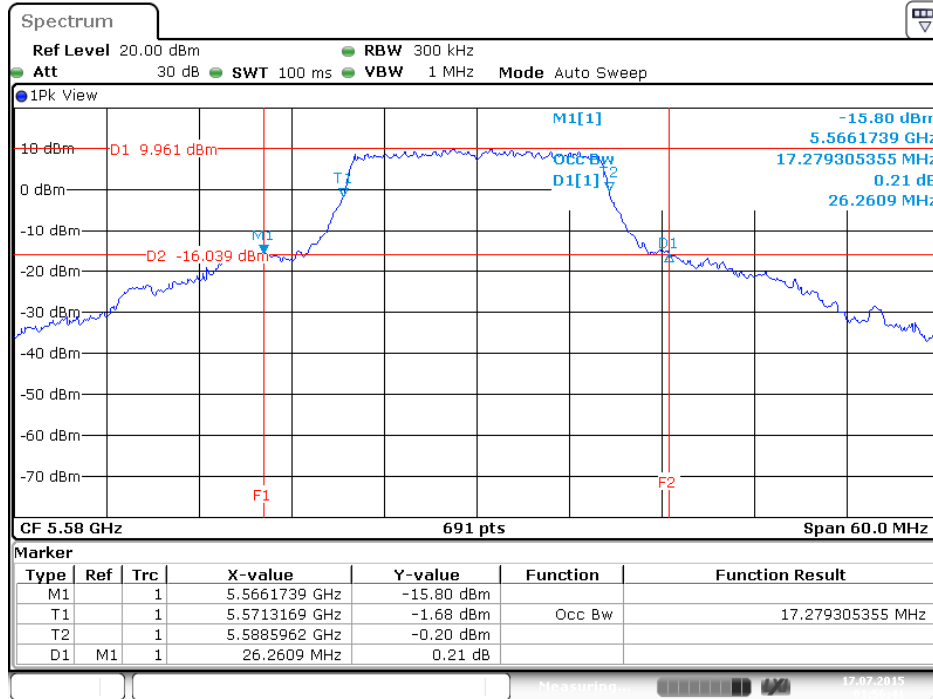
Date: 17 JUL 2015 01:53:39

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 100 / Ant. 1 (1S1T)



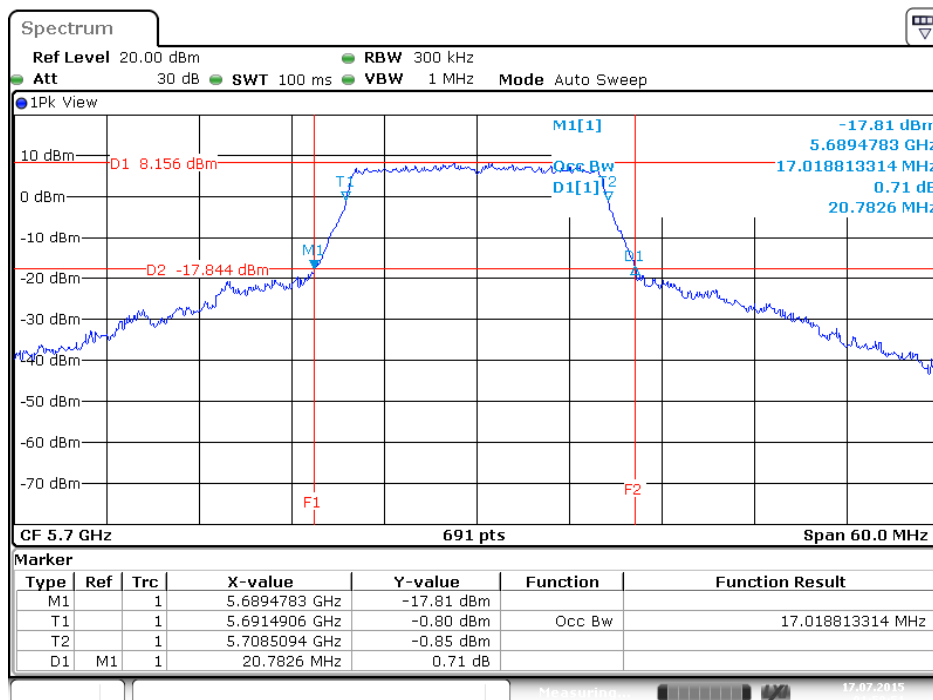
Date: 17 JUL 2015 01:59:48

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 116 / Ant. 1 (1S1T)



Date: 17 JUL 2015 01:56:41

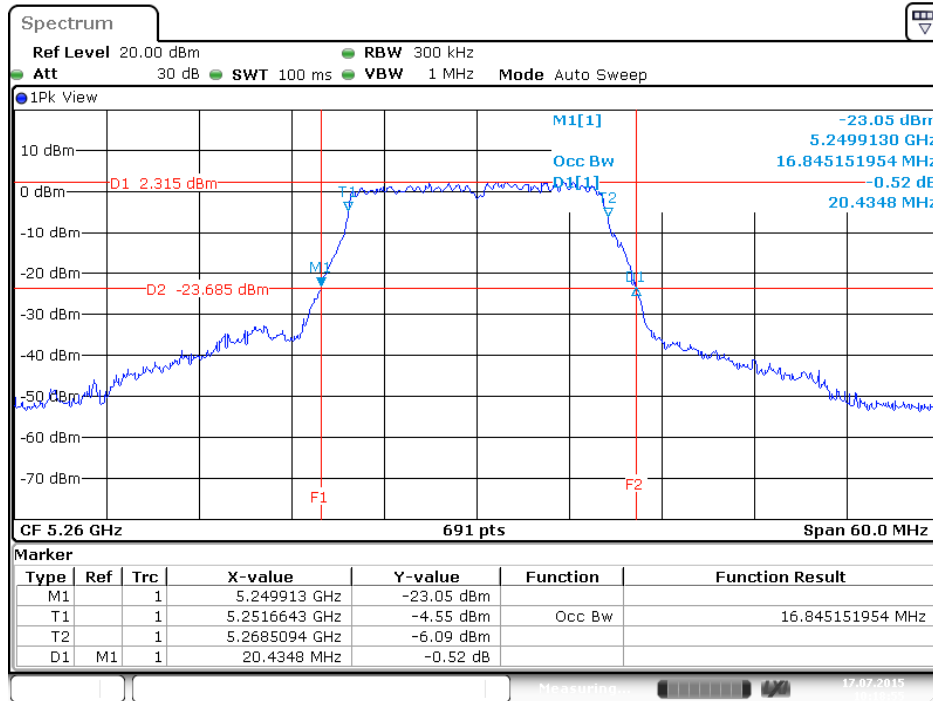
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 140 / Ant. 1 (1S1T)



Date: 17 JUL 2015 01:58:50

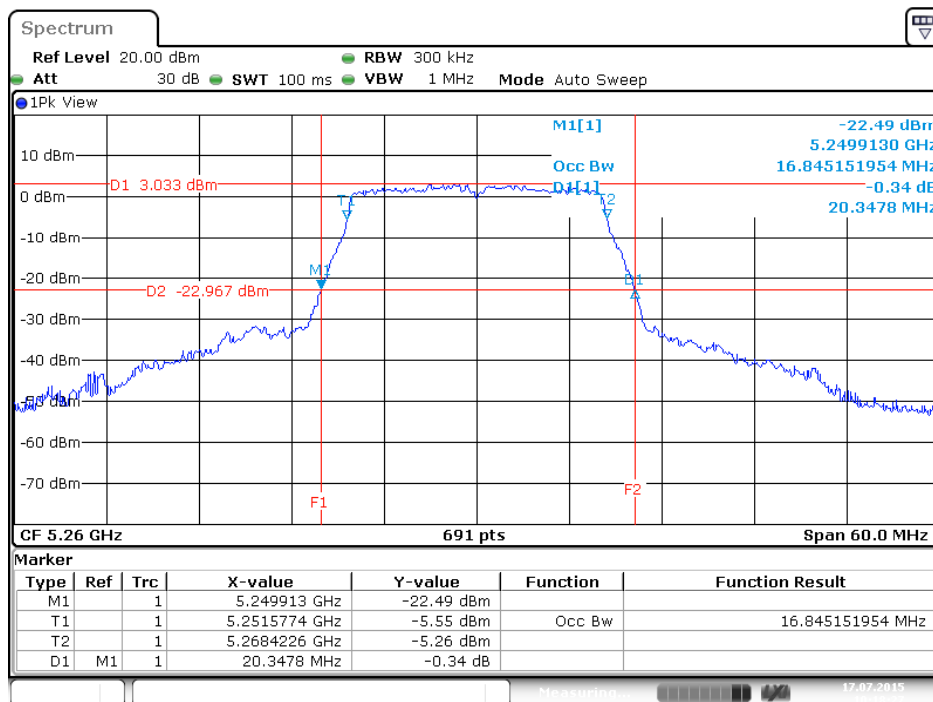
For <6Mbps, Ant. 1+2+3 (1S3T, CDD2)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 52 / Ant. 1 (1S3T, CDD2)



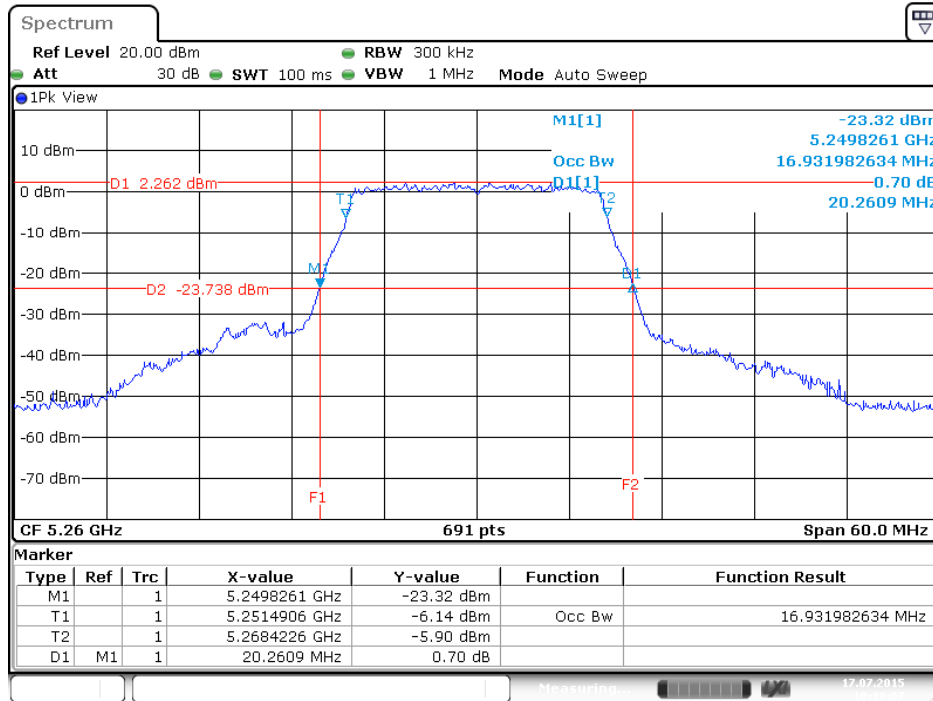
Date: 17 JUL 2015 10:18:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 52 / Ant. 2 (1S3T, CDD2)



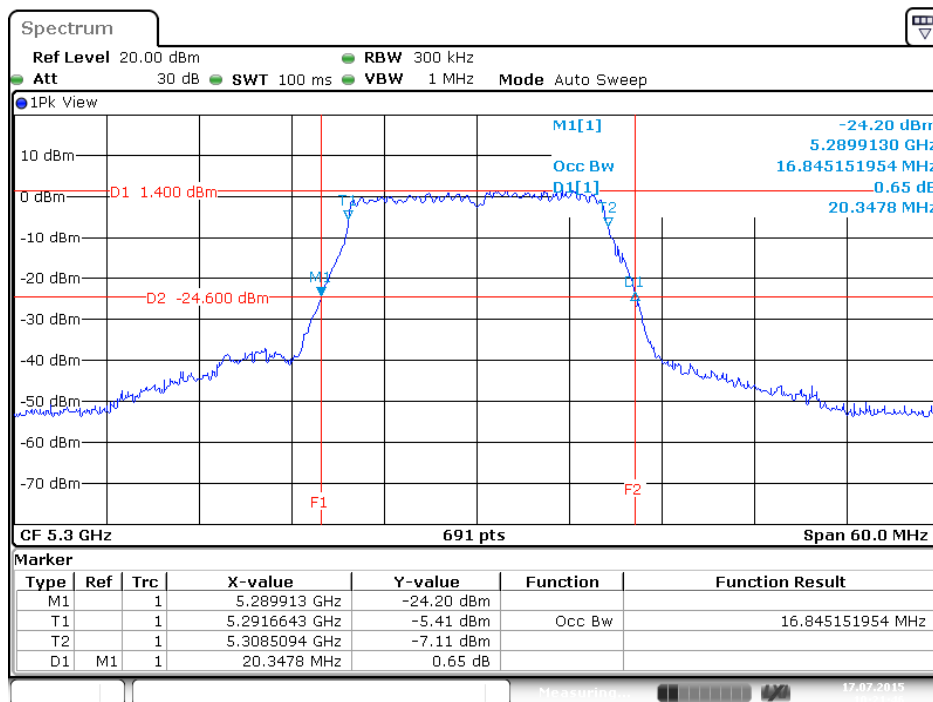
Date: 17 JUL 2015 10:18:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 52 / Ant. 3 (1S3T, CDD2)



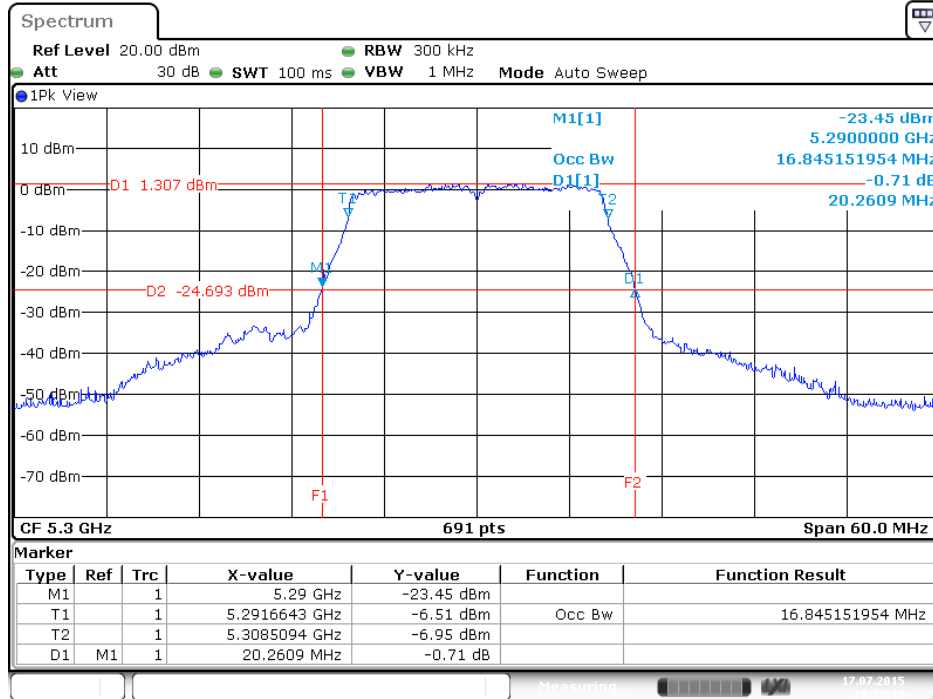
Date: 17 JUL 2015 10:18:07

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 60 / Ant. 1 (1S3T, CDD2)



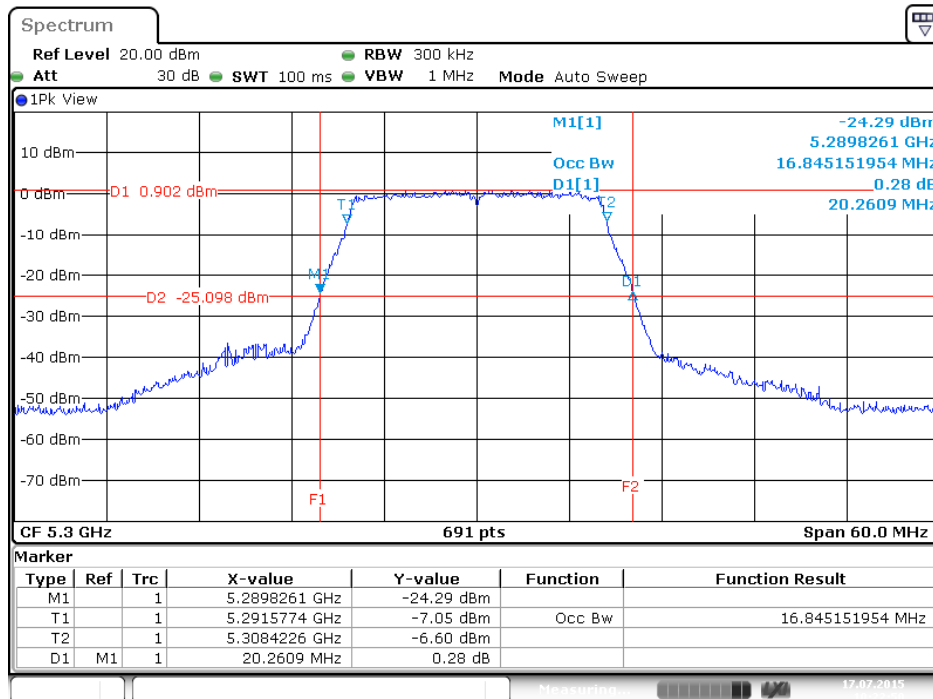
Date: 17 JUL 2015 10:21:46

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 60 / Ant. 2 (1S3T, CDD2)



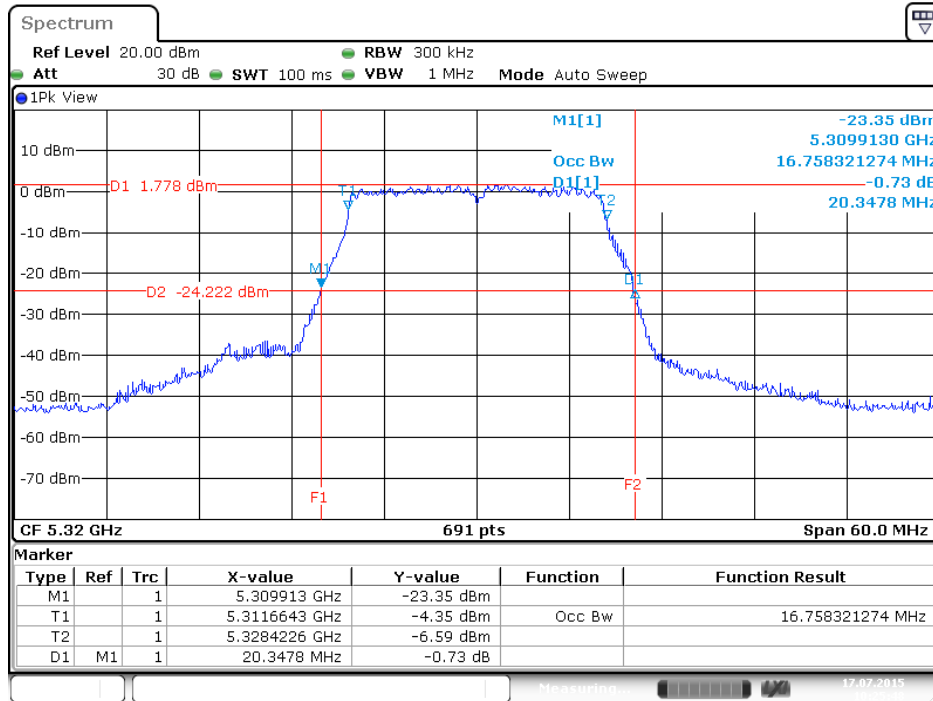
Date: 17 JUL 2015 10:22:15

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 60 / Ant. 3 (1S3T, CDD2)

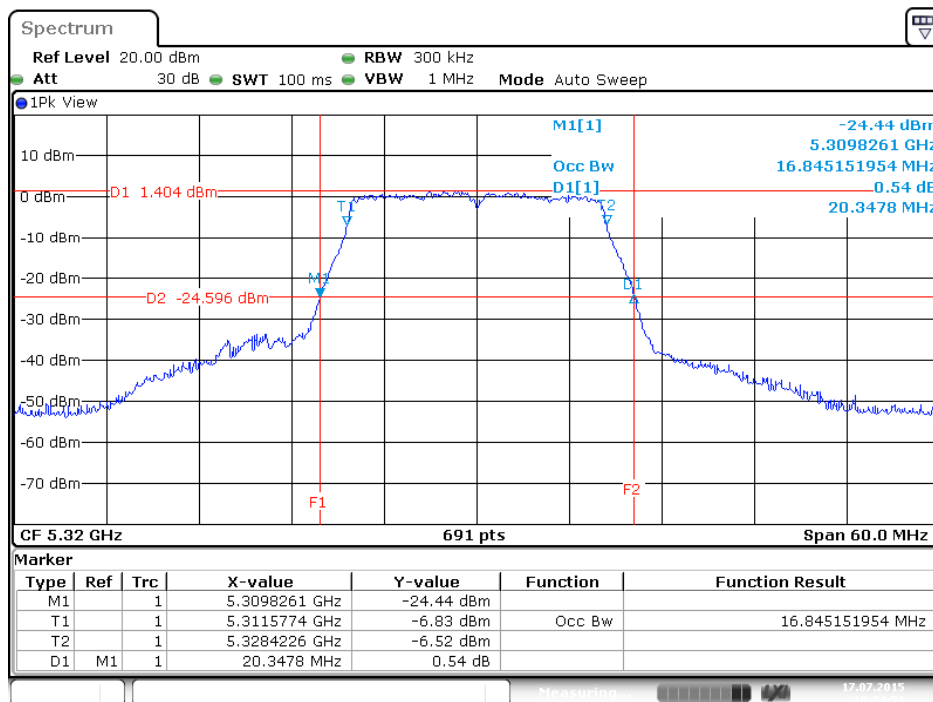


Date: 17 JUL 2015 10:22:50

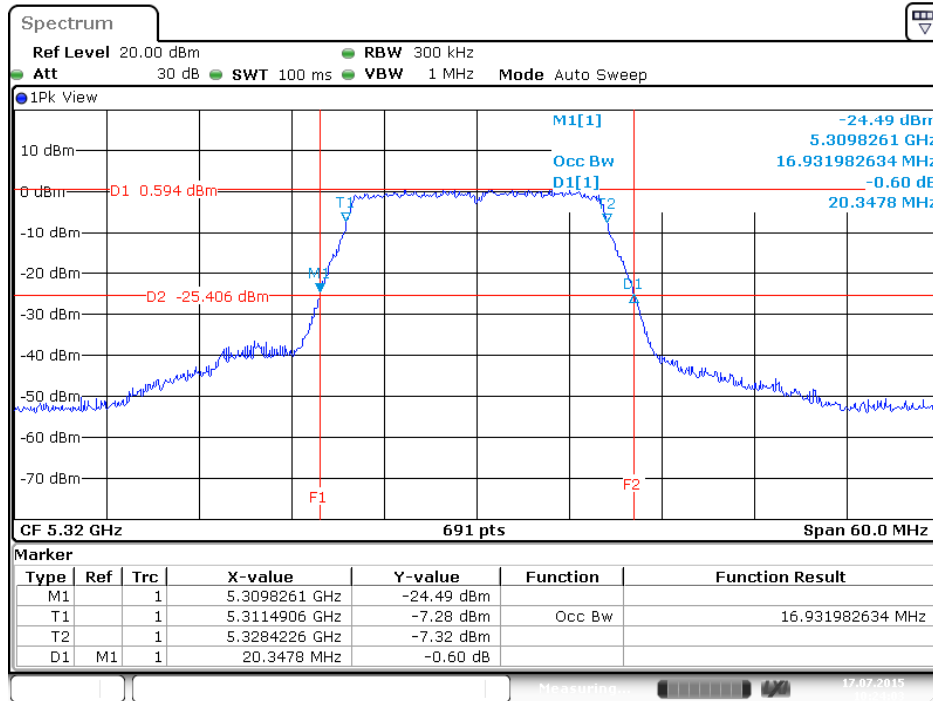
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 64 / Ant. 1 (1S3T, CDD2)



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 64 / Ant. 2 (1S3T, CDD2)

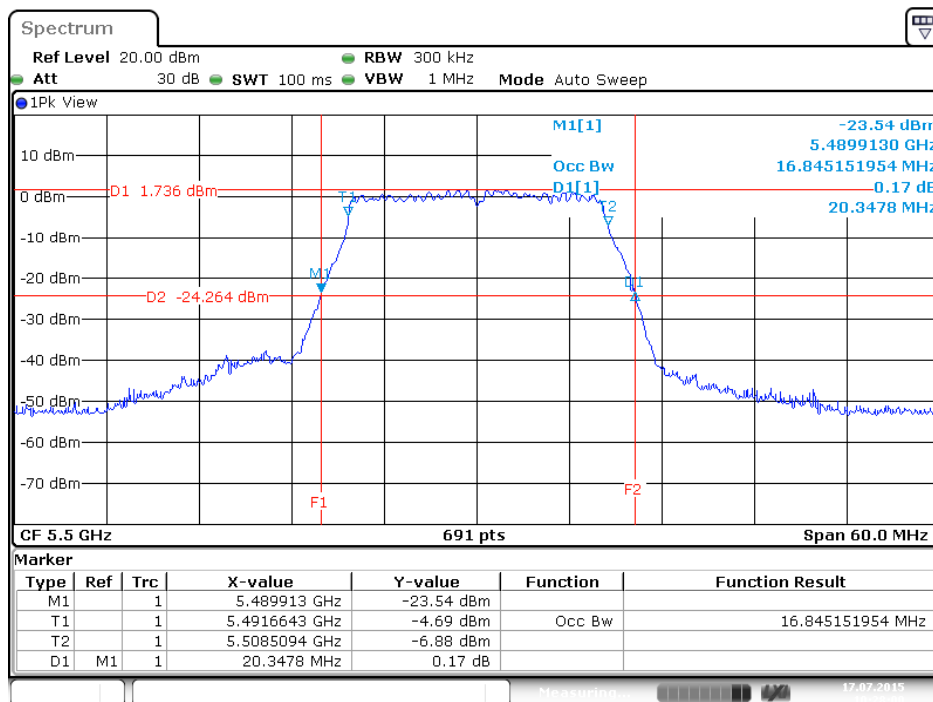


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 64 / Ant. 3 (1S3T, CDD2)



Date: 17 JUL 2015 10:24:03

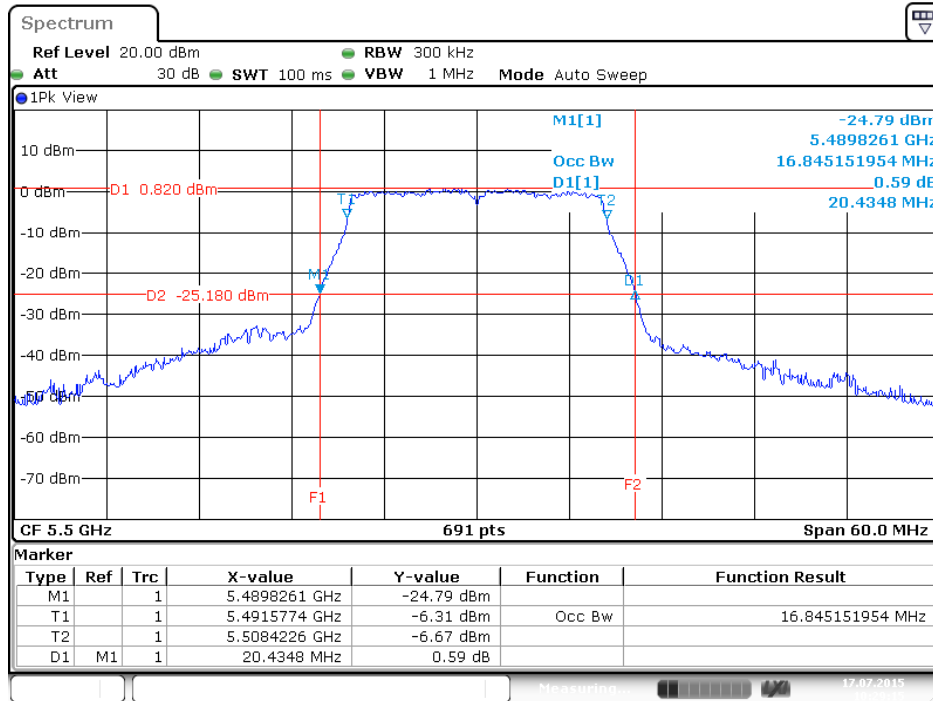
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 100 / Ant. 1 (1S3T, CDD2)



Date: 17 JUL 2015 10:28:00

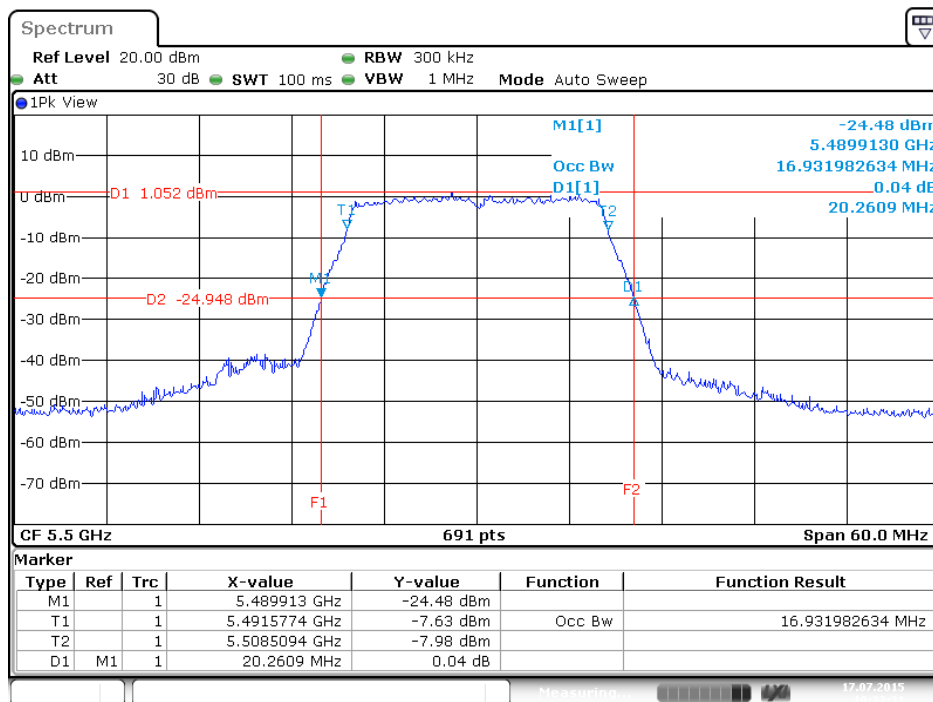


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 100 / Ant. 2 (1S3T, CDD2)



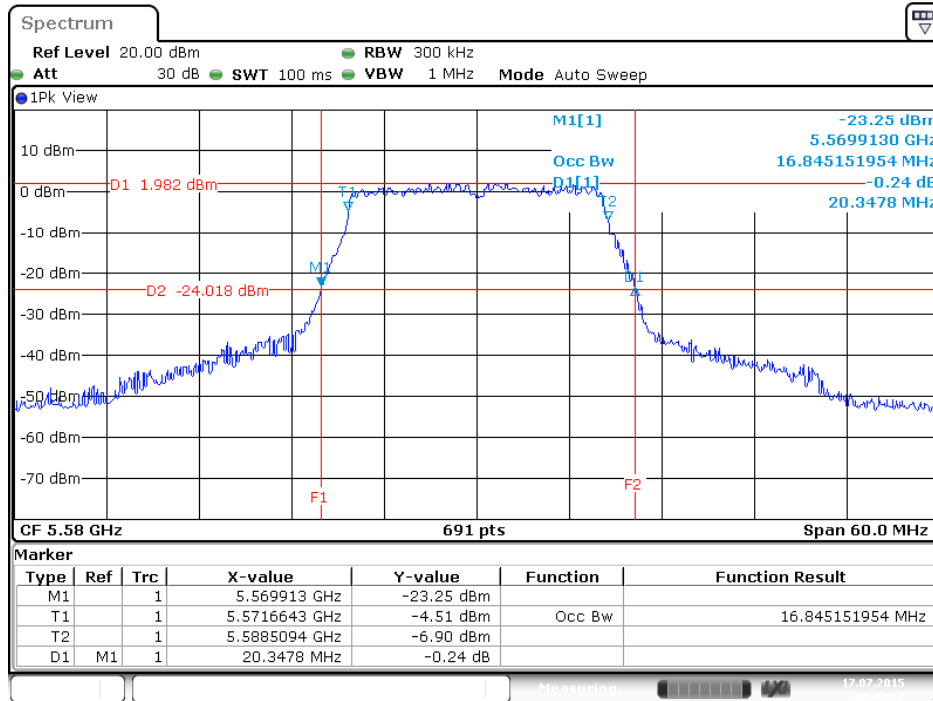
Date: 17 JUL 2015 10:29:15

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 100 / Ant. 3 (1S3T, CDD2)



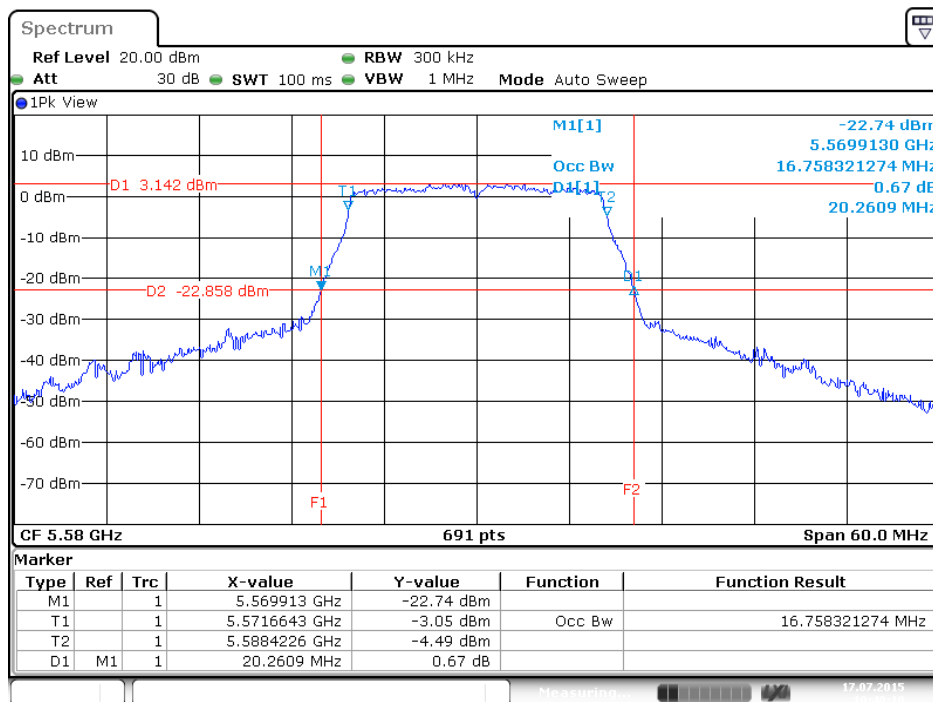
Date: 17 JUL 2015 10:32:31

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 116 / Ant. 1 (1S3T, CDD2)



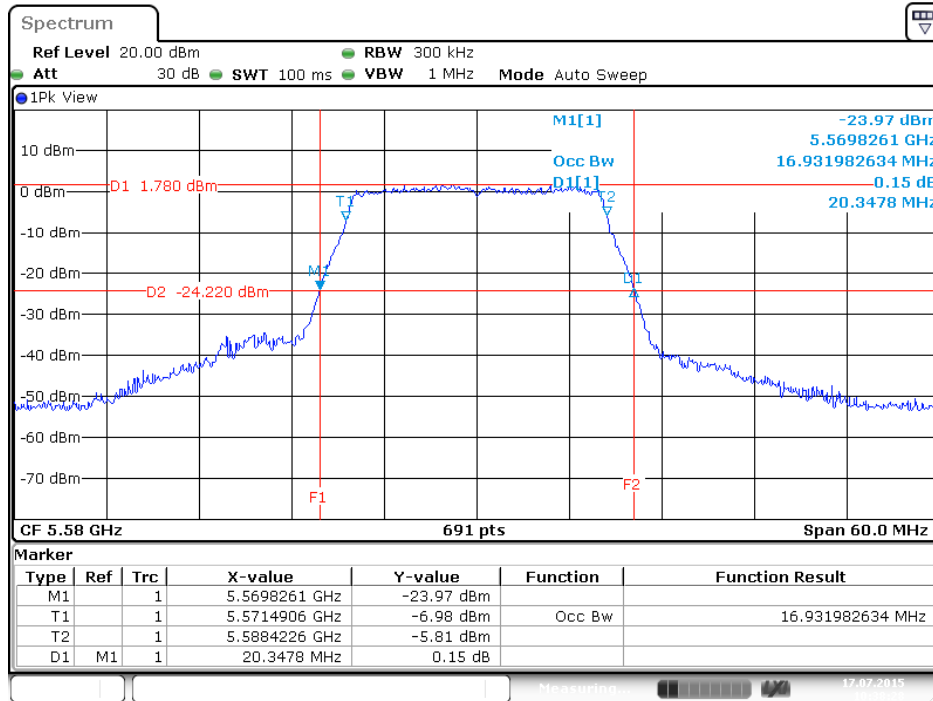
Date: 17 JUL 2015 10:40:57

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 116 / Ant. 2 (1S3T, CDD2)



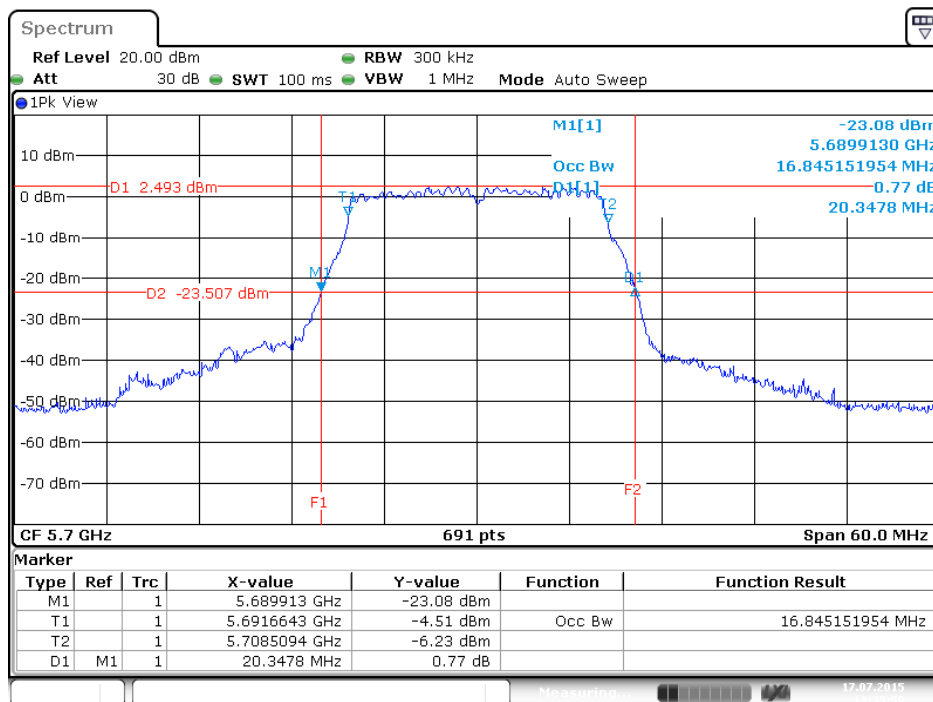
Date: 17 JUL 2015 10:40:10

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 116 / Ant. 3 (1S3T, CDD2)



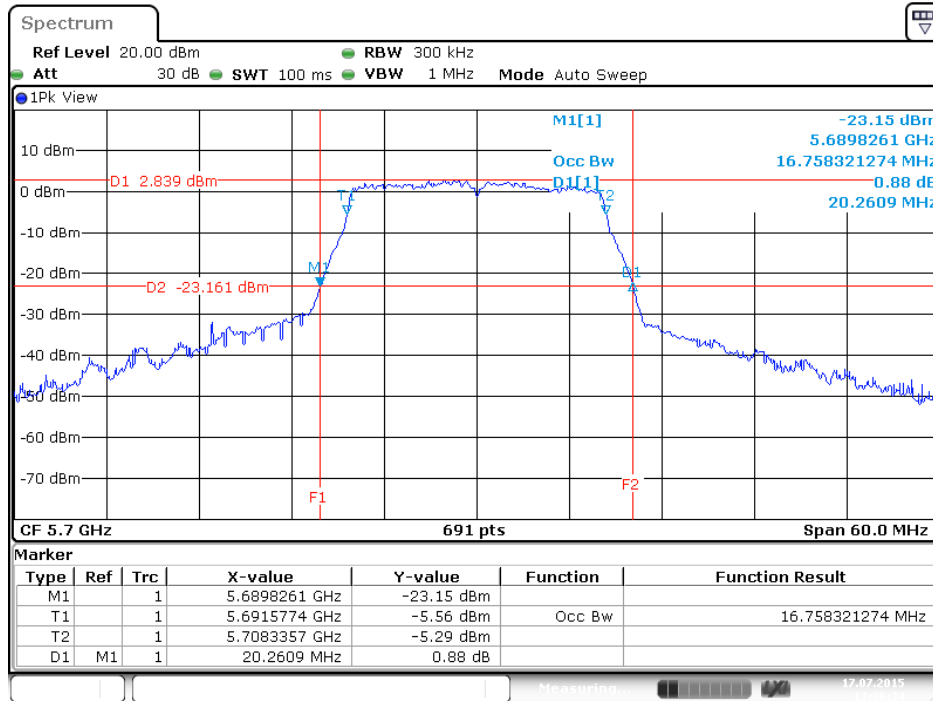
Date: 17 JUL 2015 10:38:28

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 140 / Ant. 1 (1S3T, CDD2)



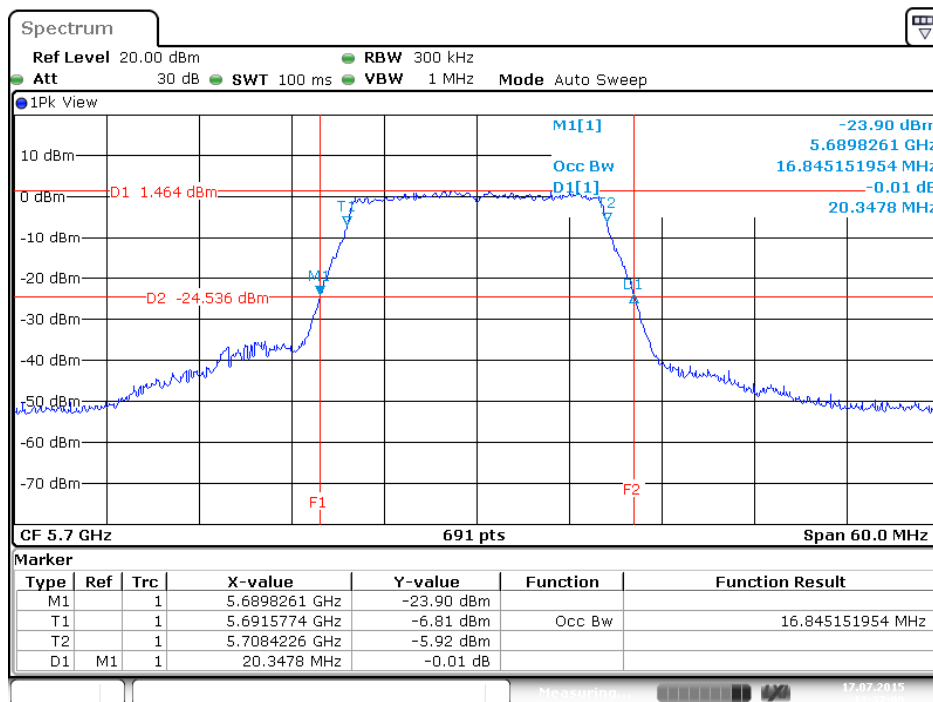
Date: 17 JUL 2015 13:35:50

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 140 / Ant. 2 (1S3T, CDD2)



Date: 17 JUL 2015 13:36:34

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / 6Mbps / CH 140 / Ant. 3 (1S3T, CDD2)



Date: 17 JUL 2015 13:37:00

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 20MHz
<b>Duty Cycle</b>	<Nss1MCS0, Ant. 1 (1S1T)>: 99.03% <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>: 98.97%		

**Configuration IEEE 802.11ac 20MHz**

**<Nss1MCS0, Ant. 1 (1S1T)>**

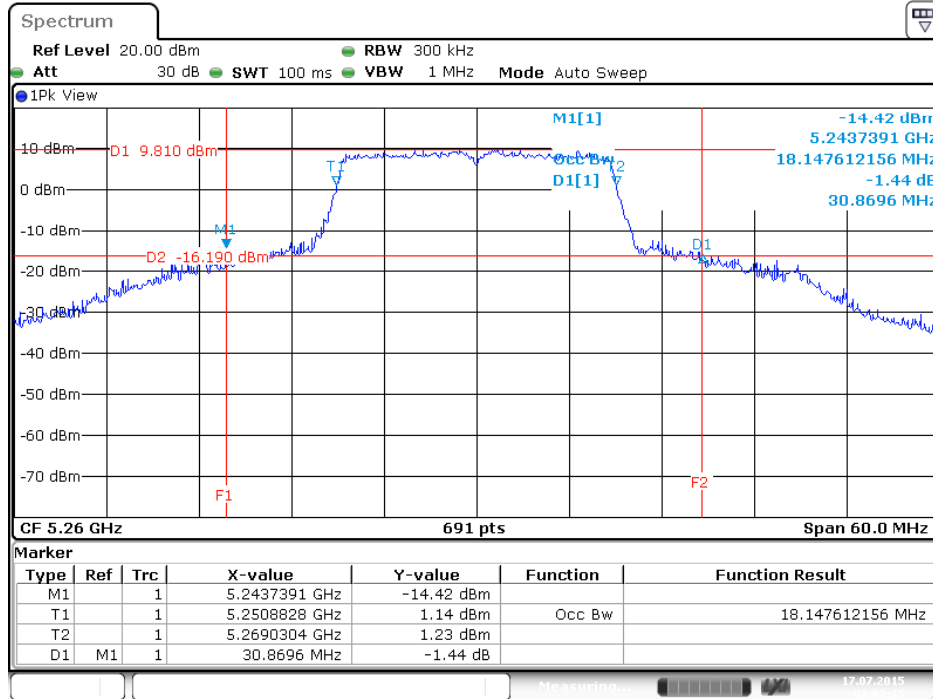
Channel	Frequency	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
52	5260 MHz	30.87	18.15
60	5300 MHz	20.78	17.97
64	5320 MHz	20.61	17.97
100	5500 MHz	20.87	18.06
116	5580 MHz	32.26	18.23
140	5700 MHz	22.61	18.06

**<Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>**

Channel	Frequency	26dB Bandwidth (MHz)			99% Occupied Bandwidth (MHz)		
		Ant. 1	Ant. 2	Ant. 3	Ant. 1	Ant. 2	Ant. 3
52	5260 MHz	20.60	17.88	20.43	17.80	20.69	17.97
60	5300 MHz	20.60	17.88	20.60	17.71	20.43	17.80
64	5320 MHz	20.43	17.80	20.43	17.80	20.69	17.97
100	5500 MHz	20.43	17.80	20.52	17.80	20.69	17.88
116	5580 MHz	20.43	17.88	20.52	17.88	20.60	17.88
140	5700 MHz	20.43	17.80	20.52	17.80	20.78	17.88

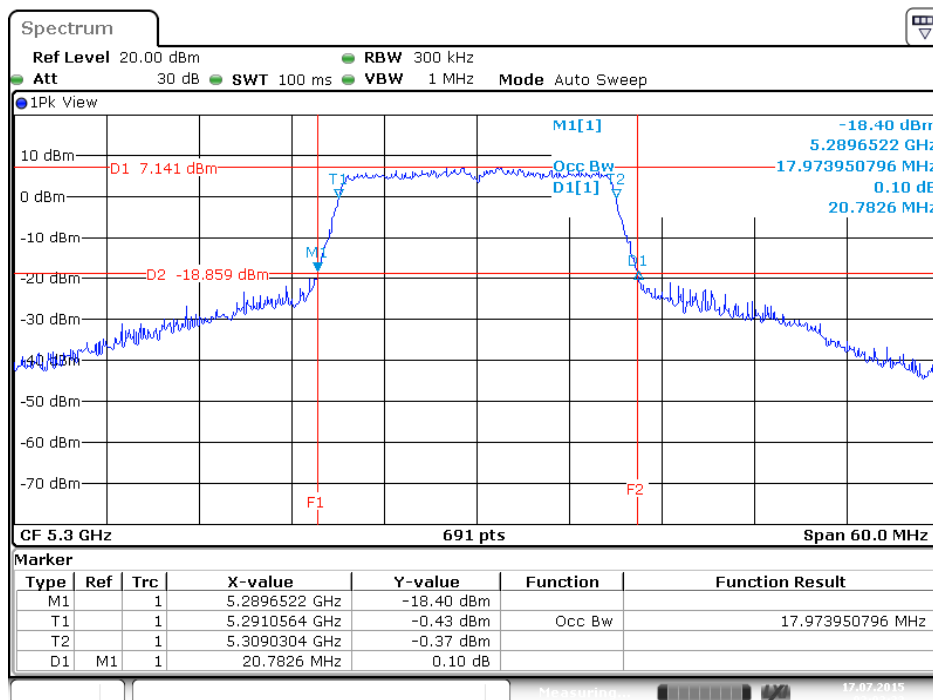
For <Nss1MCS0, Ant. 1 (1S1T)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1 (1S1T)



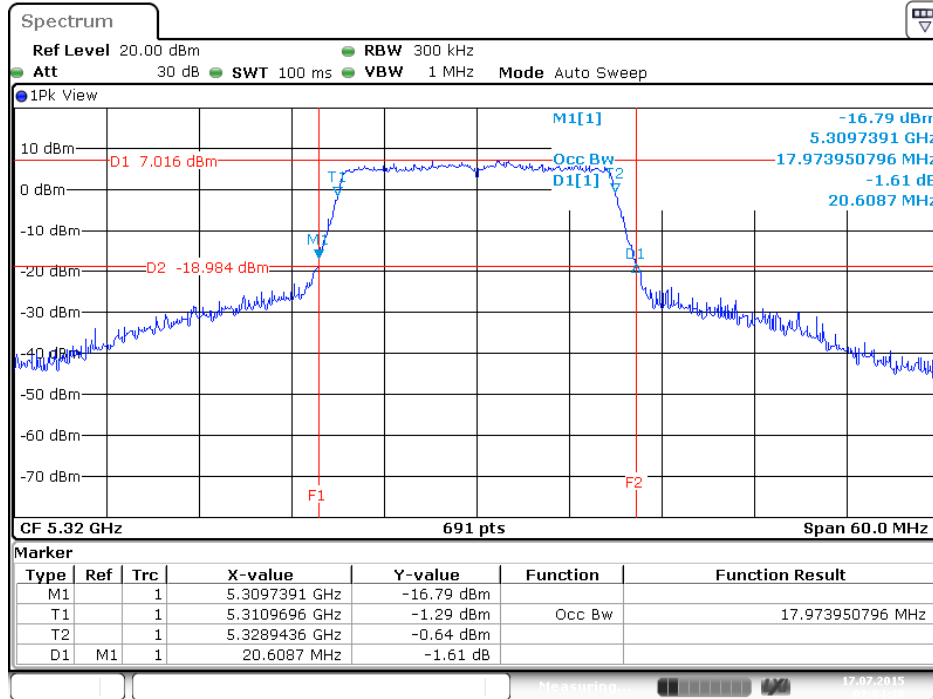
Date: 17 JUL 2015 02:02:24

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1 (1S1T)



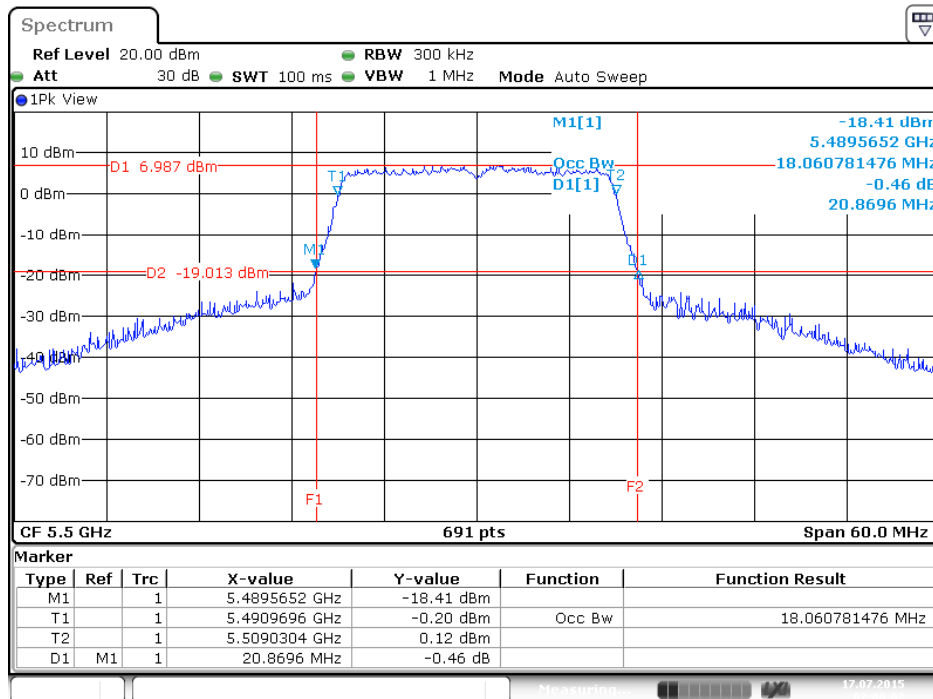
Date: 17 JUL 2015 02:03:34

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1 (1S1T)



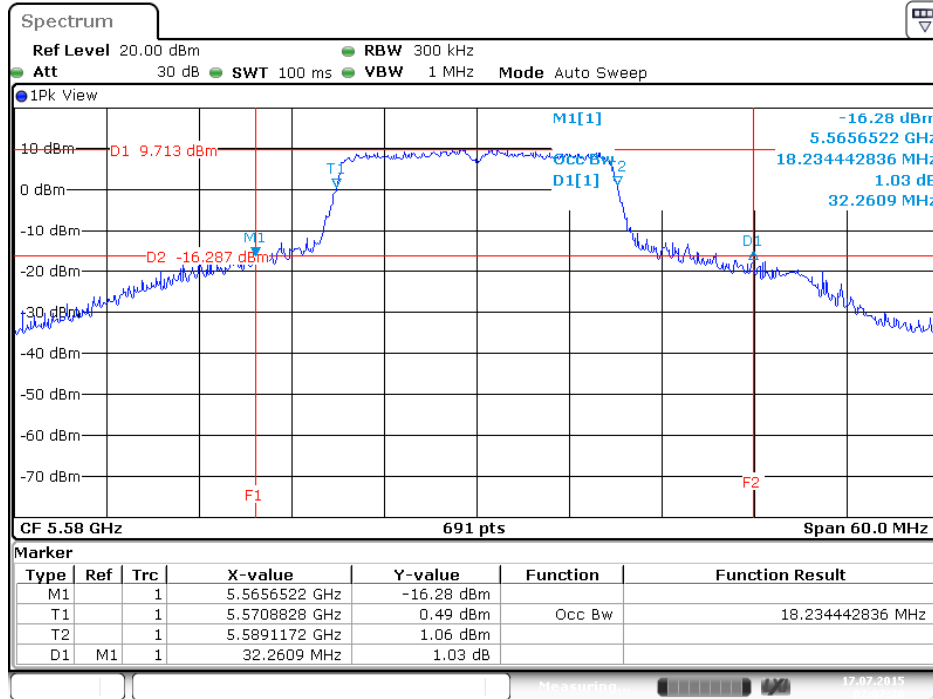
Date: 17 JUL 2015 02:04:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1 (1S1T)



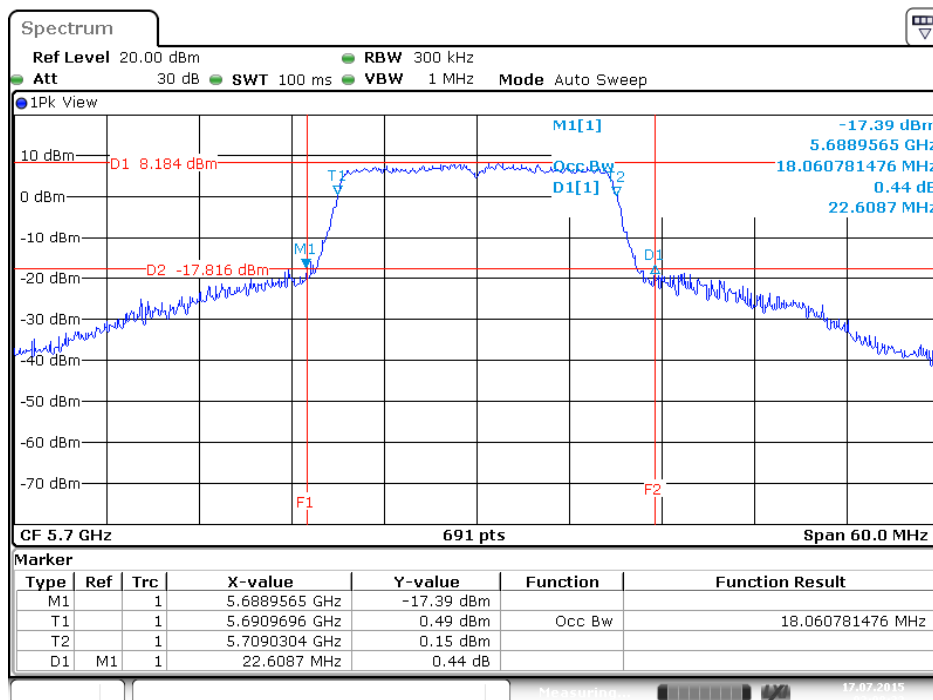
Date: 17 JUL 2015 02:06:02

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1 (1S1T)



Date: 17 JUL 2015 02:07:20

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1 (1S1T)

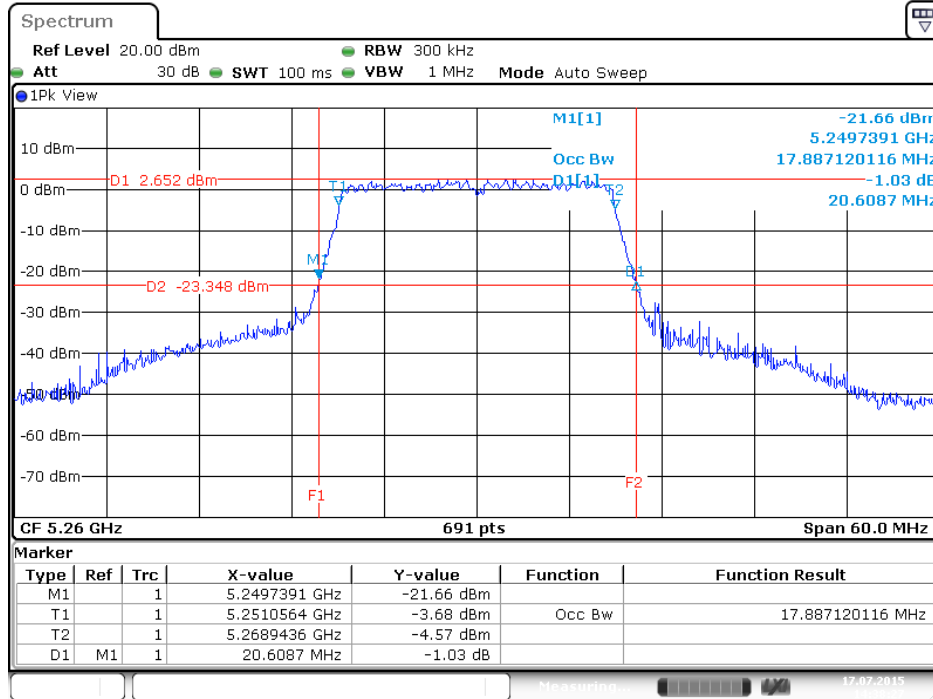


Date: 17 JUL 2015 02:08:32



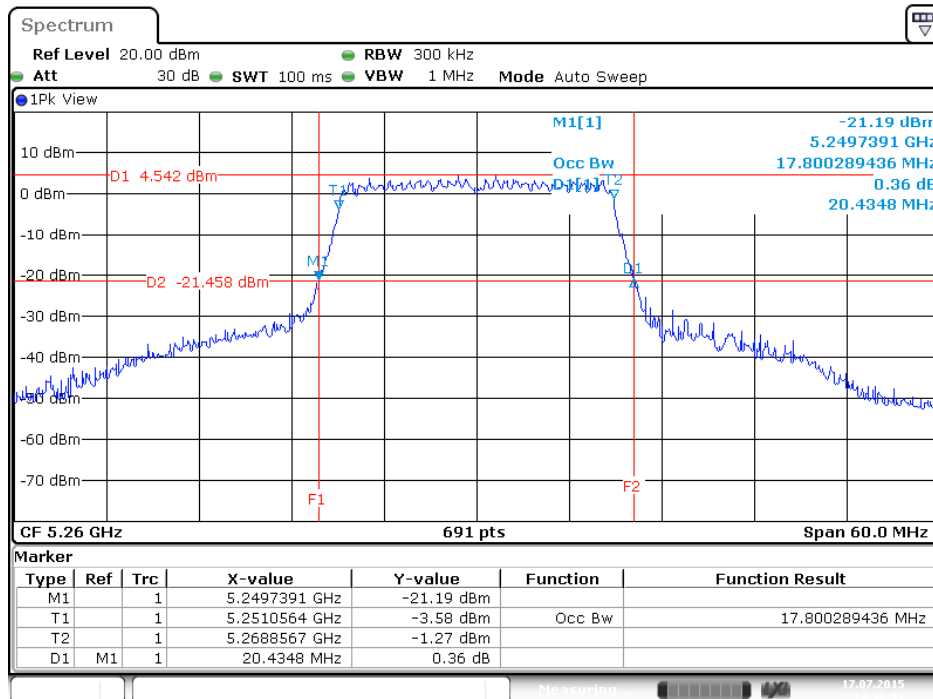
For <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1 (1S3T, CDD2)



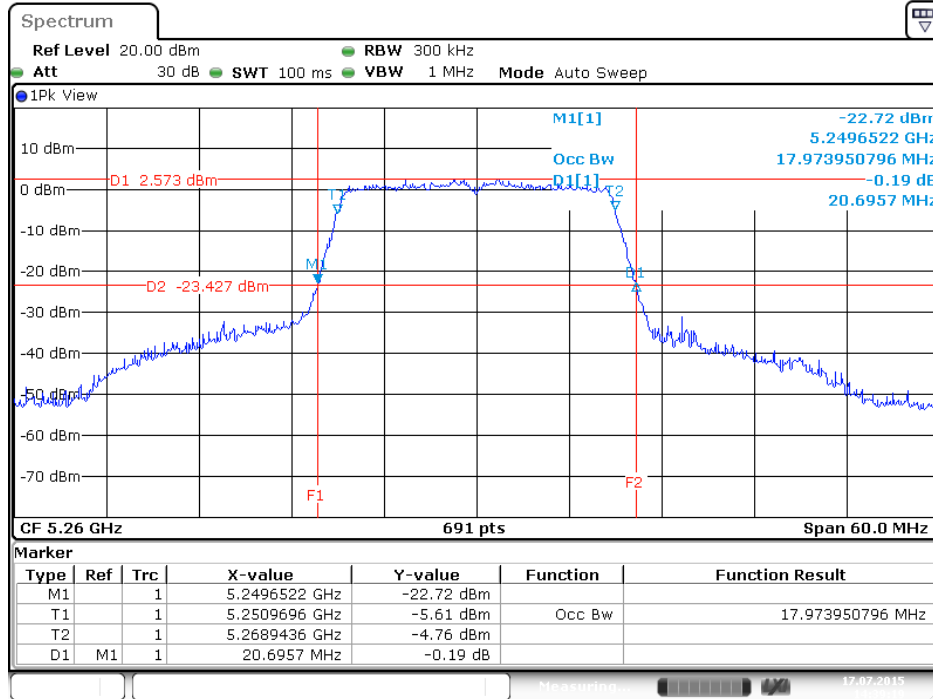
Date: 17 JUL 2015 14:38:26

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 2 (1S3T, CDD2)

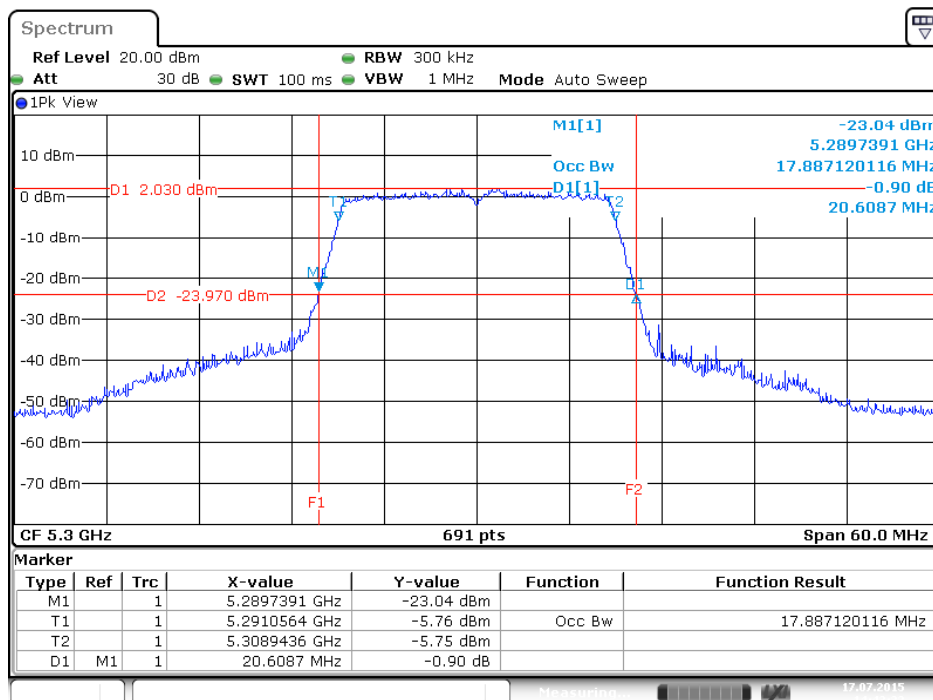


Date: 17 JUL 2015 14:38:52

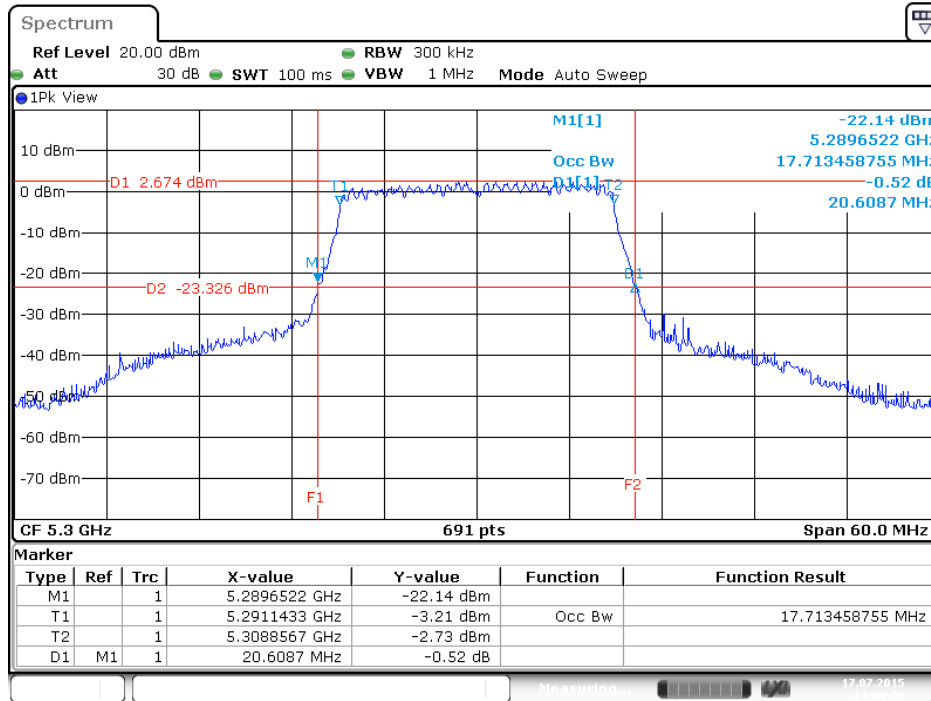
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 3 (1S3T, CDD2)



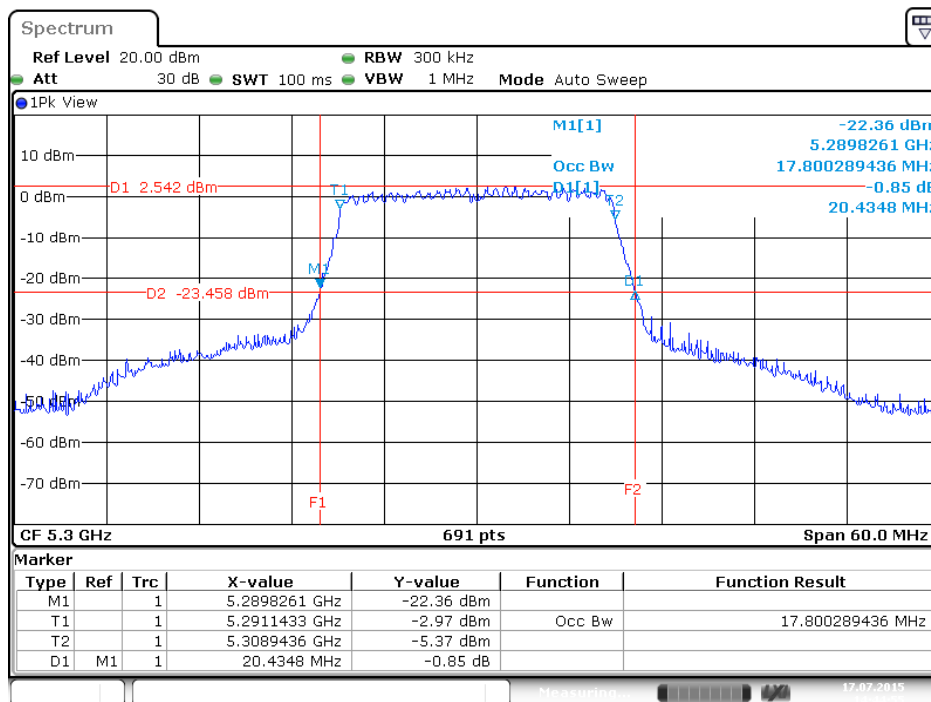
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1 (1S3T, CDD2)



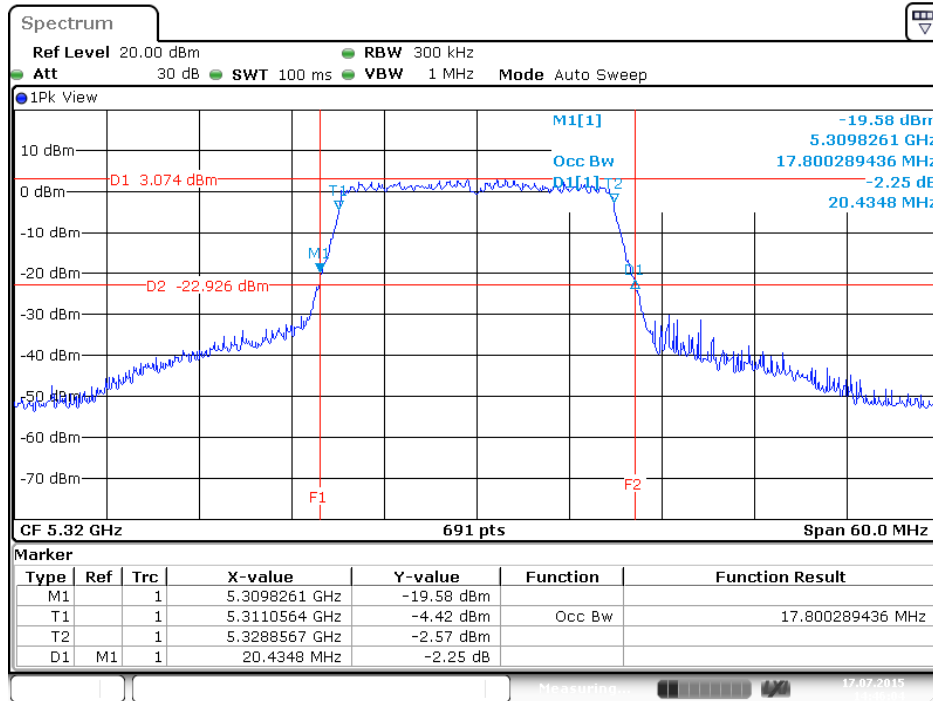
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 2 (1S3T, CDD2)



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 3 (1S3T, CDD2)

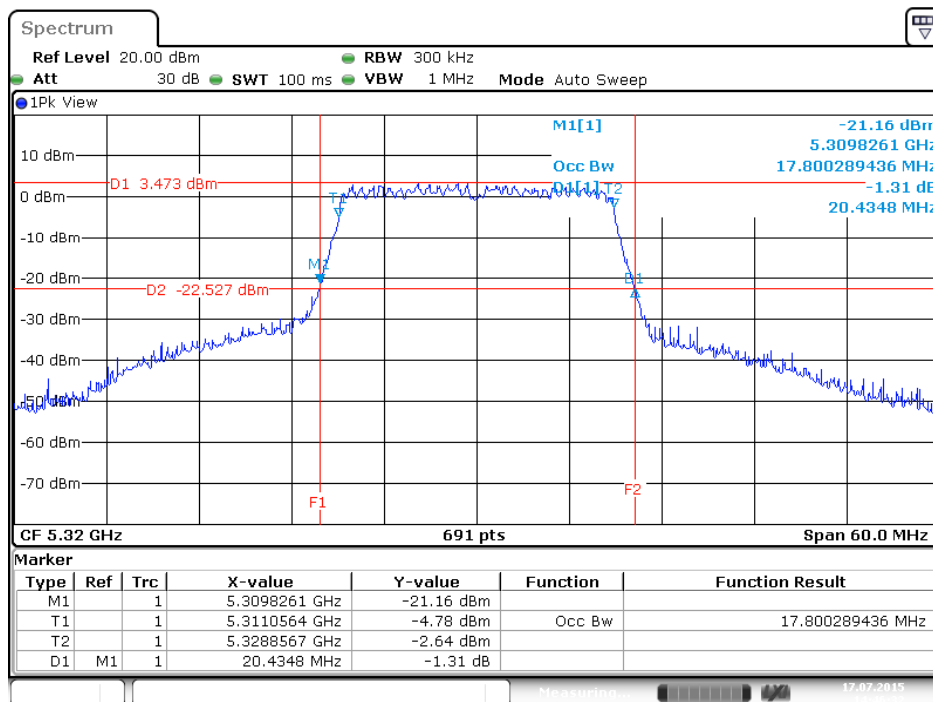


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1 (1S3T, CDD2)



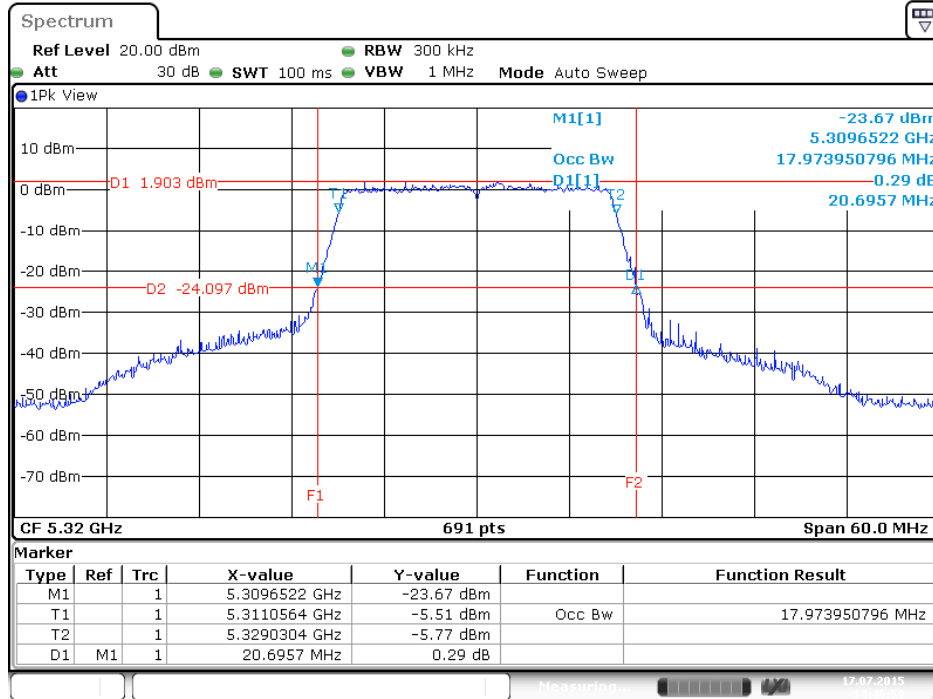
Date: 17 JUL 2015 14:46:04

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 2 (1S3T, CDD2)

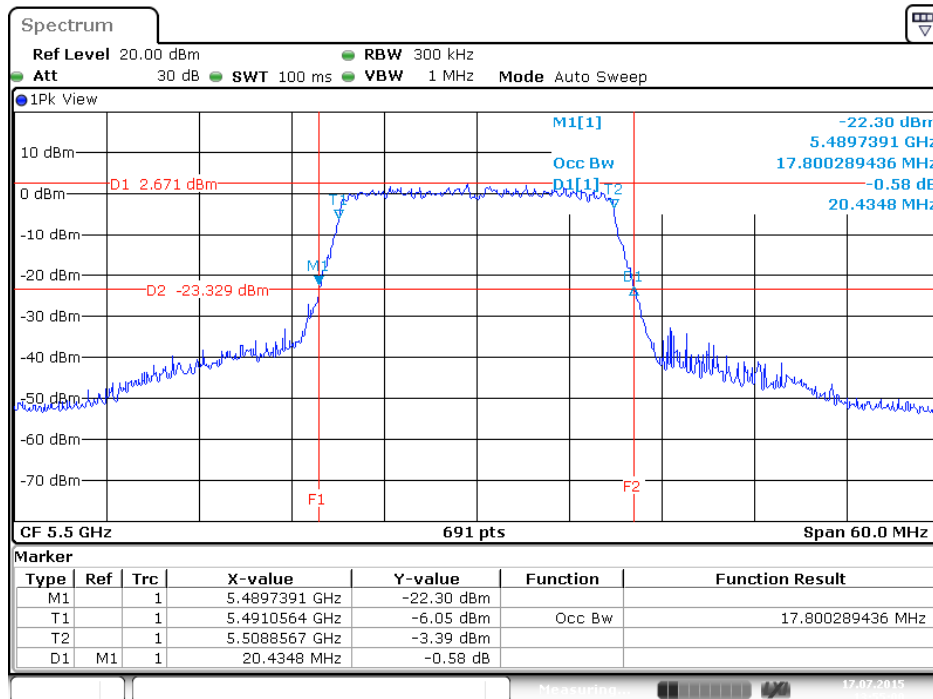


Date: 17 JUL 2015 14:46:33

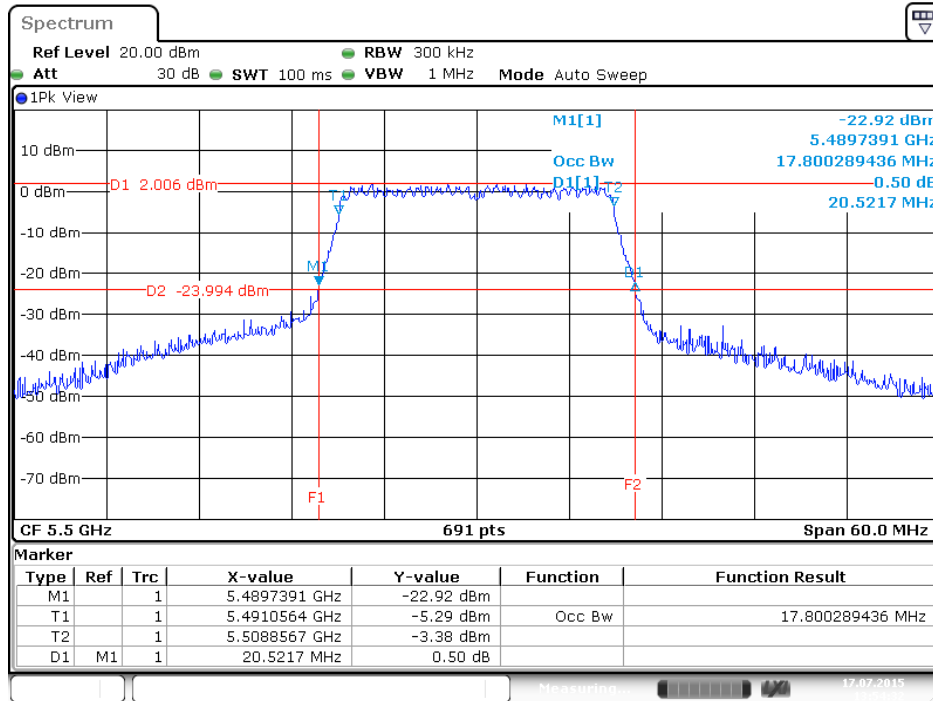
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 3 (1S3T, CDD2)



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1 (1S3T, CDD2)

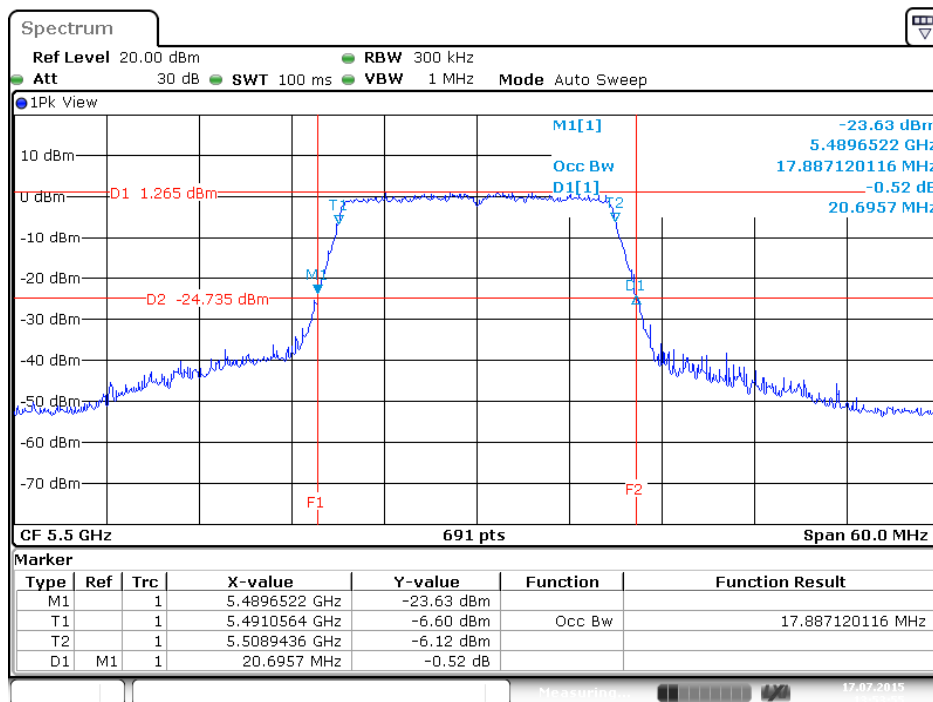


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 2 (1S3T, CDD2)



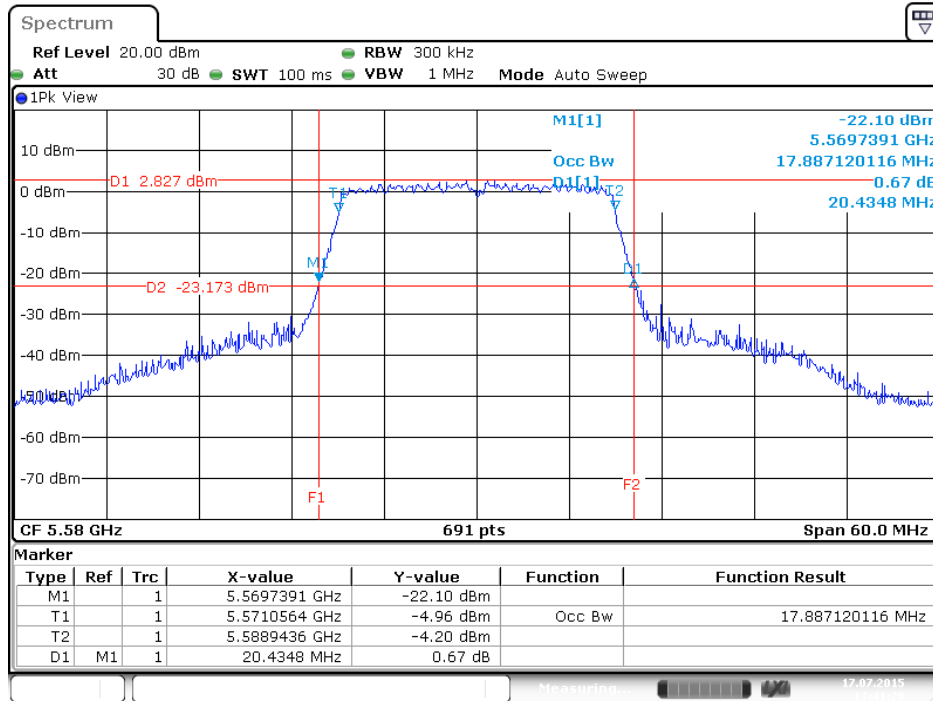
Date: 17 JUL 2015 13:54:33

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 3 (1S3T, CDD2)



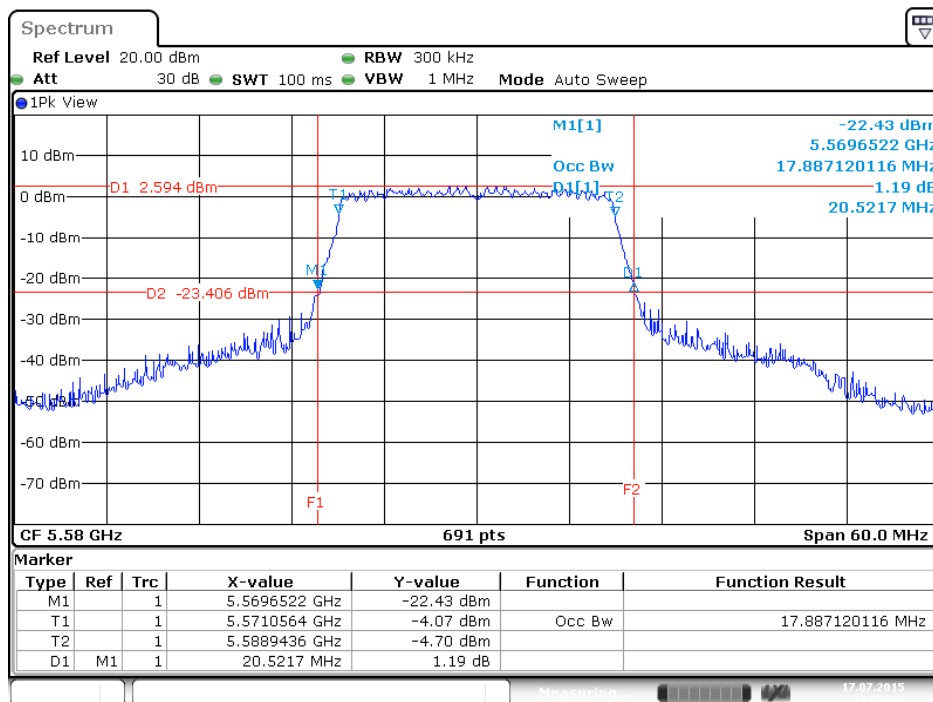
Date: 17 JUL 2015 13:53:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1 (1S3T, CDD2)



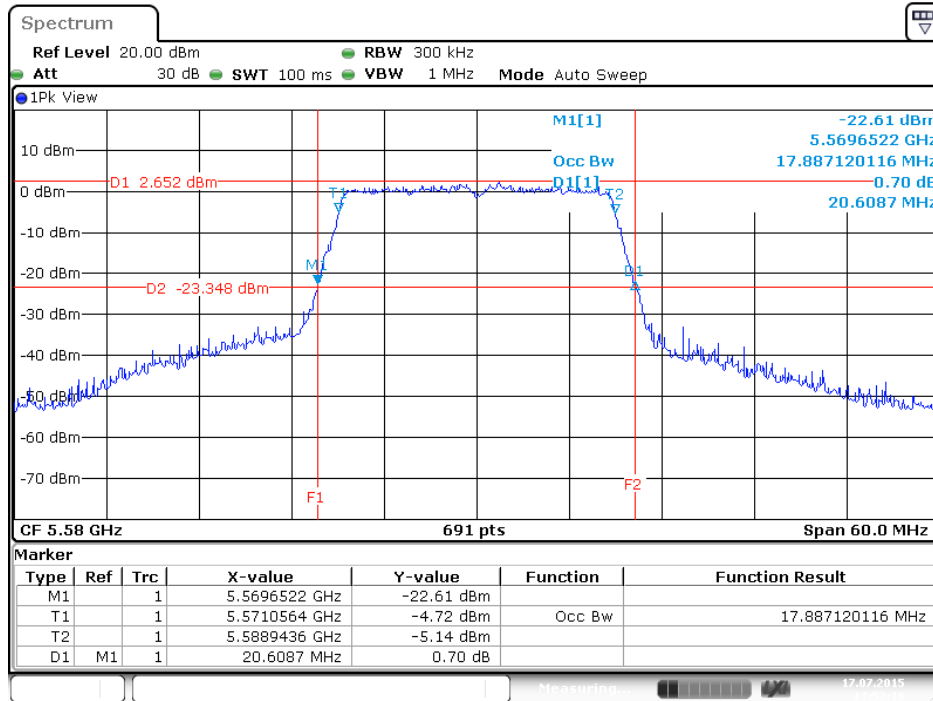
Date: 17 JUL 2015 13:41:28

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 2 (1S3T, CDD2)



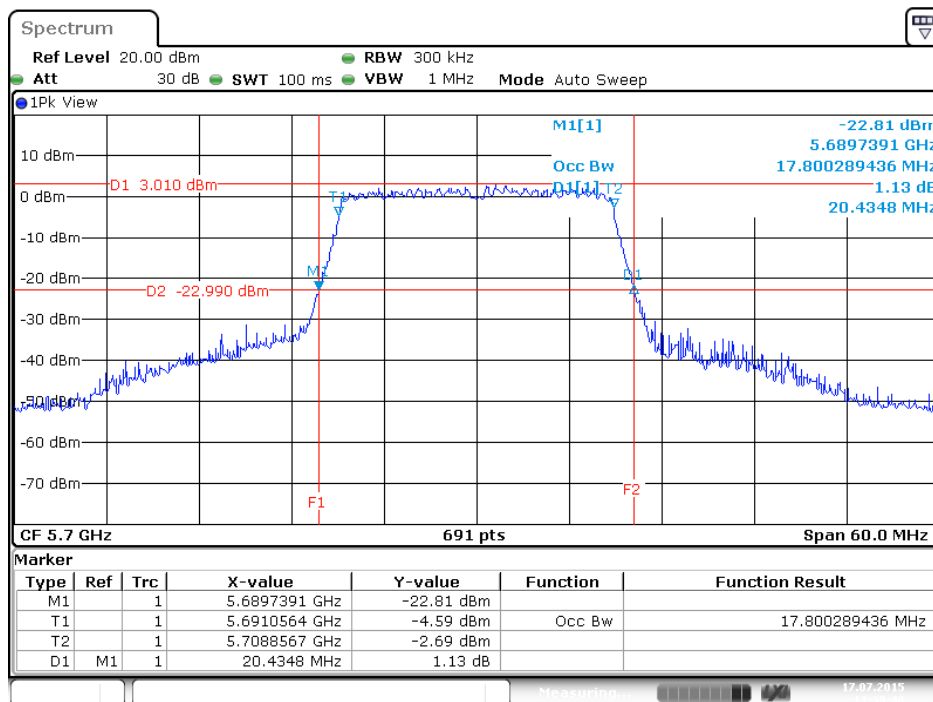
Date: 17 JUL 2015 13:51:33

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 3 (1S3T, CDD2)



Date: 17 JUL 2015 13:52:19

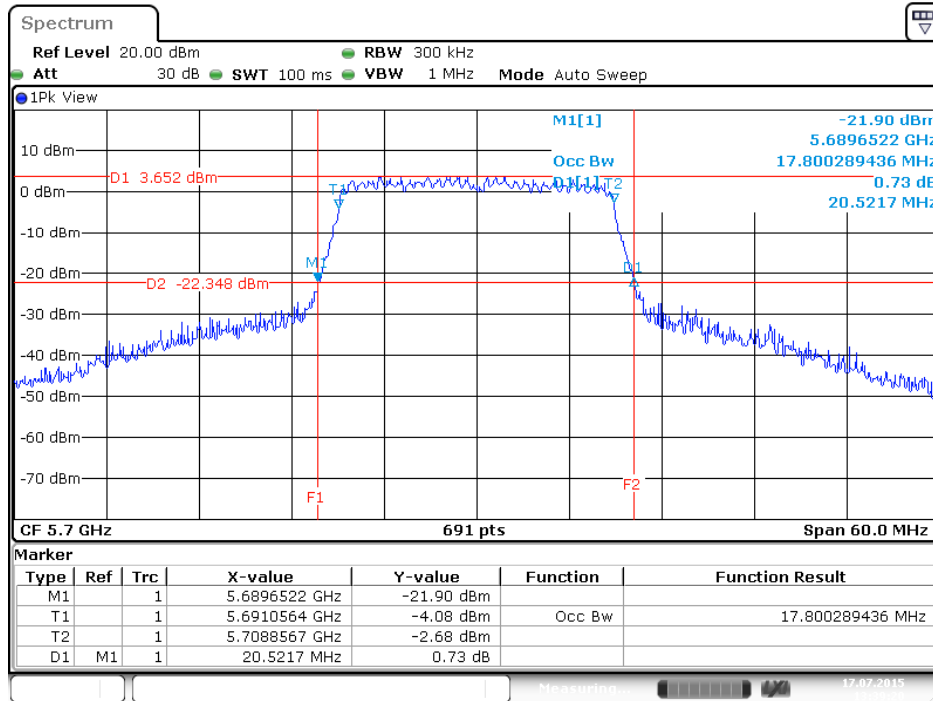
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1 (1S3T, CDD2)



Date: 17 JUL 2015 13:39:40

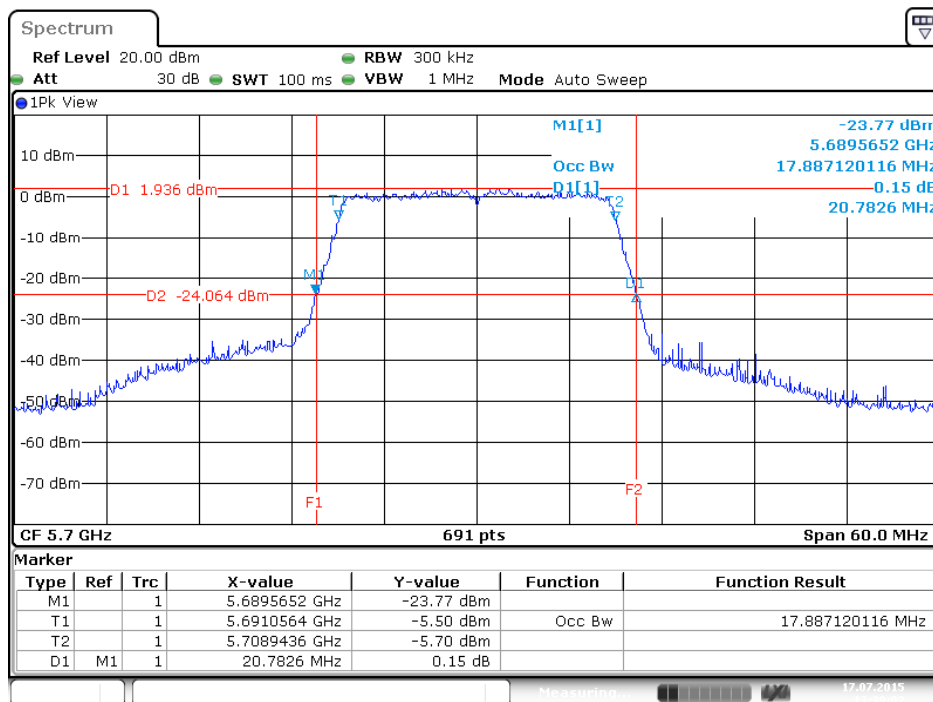


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 2 (1S3T, CDD2)



Date: 17 JUL 2015 13:39:20

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 3 (1S3T, CDD2)



Date: 17 JUL 2015 13:39:03

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 40MHz
<b>Duty Cycle</b>	< Nss1MCS0, Ant. 1 (1S1T)>: 97.25% <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>: 97.53%		

**Configuration IEEE 802.11ac 40MHz**

**<Nss1MCS0, Ant. 1 (1S1T)>**

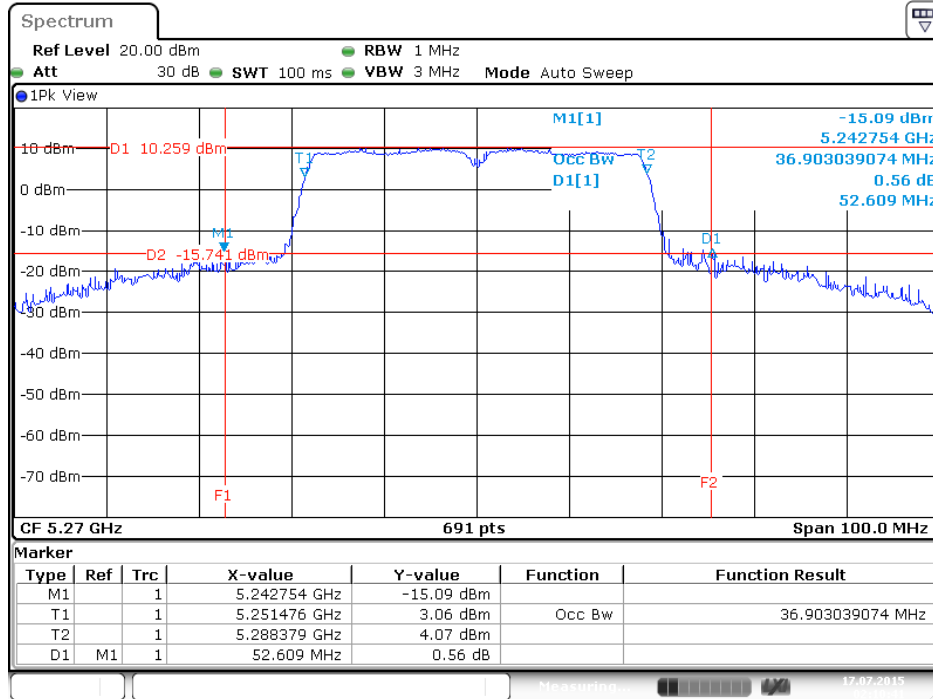
Channel	Frequency	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
54	5270 MHz	52.61	36.90
62	5310 MHz	40.87	36.76
102	5510 MHz	40.87	37.05
110	5550 MHz	73.19	37.34
134	5670 MHz	48.70	37.05

**<Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>**

Channel	Frequency	26dB Bandwidth (MHz)			99% Occupied Bandwidth (MHz)		
		Ant. 1	Ant. 2	Ant. 3	Ant. 1	Ant. 2	Ant. 3
54	5270 MHz	40.29	36.46	40.43	36.61	40.43	36.61
62	5310 MHz	40.29	36.61	40.29	36.61	40.87	36.75
102	5510 MHz	40.29	36.46	40.72	36.90	40.87	36.75
110	5550 MHz	40.29	36.46	40.72	36.61	41.01	36.75
134	5670 MHz	40.29	36.61	40.29	36.75	40.87	36.75

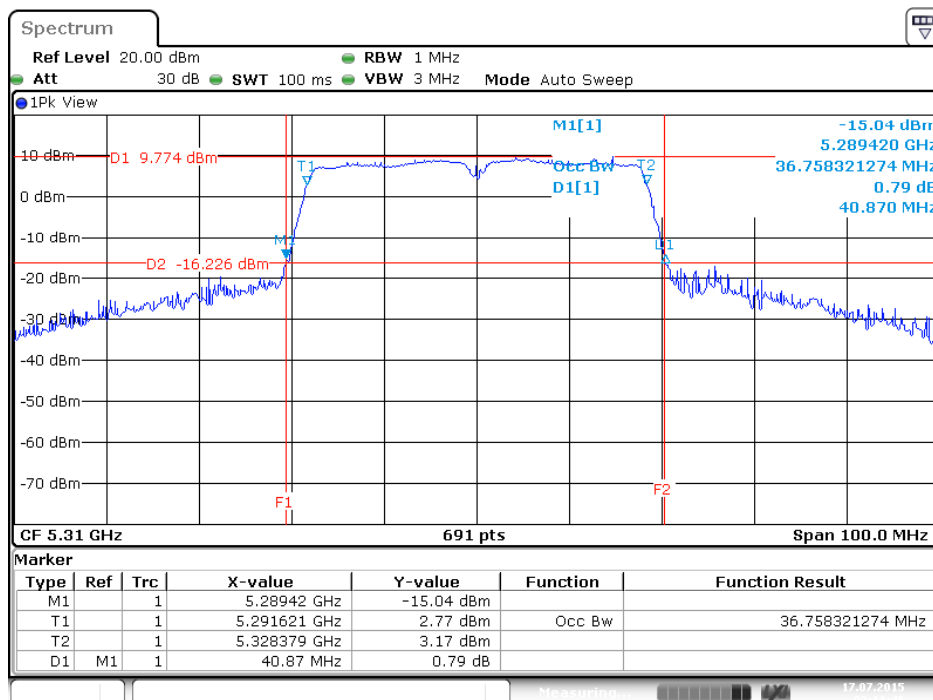
For <Nss1MCS0, Ant. 1 (1S1T)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1 (1S1T)



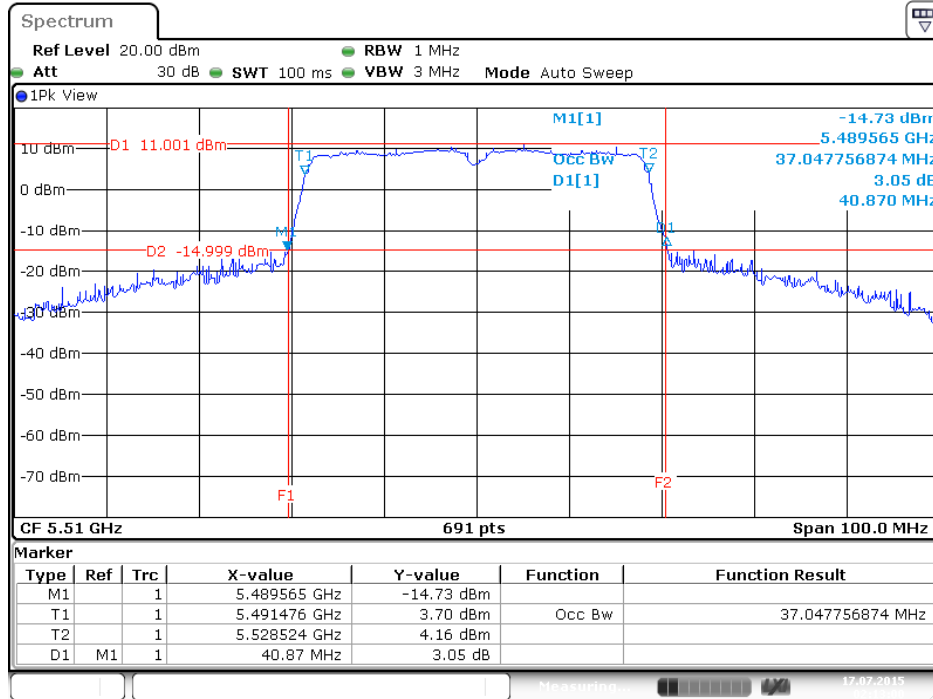
Date: 17 JUL 2015 02:10:42

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1 (1S1T)



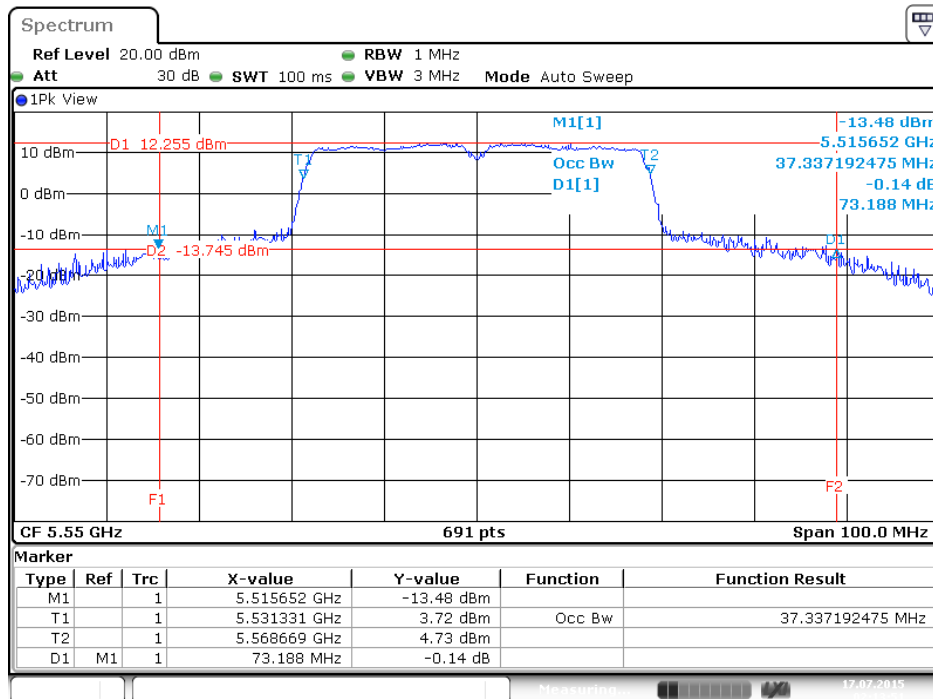
Date: 17 JUL 2015 02:11:46

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1 (1S1T)



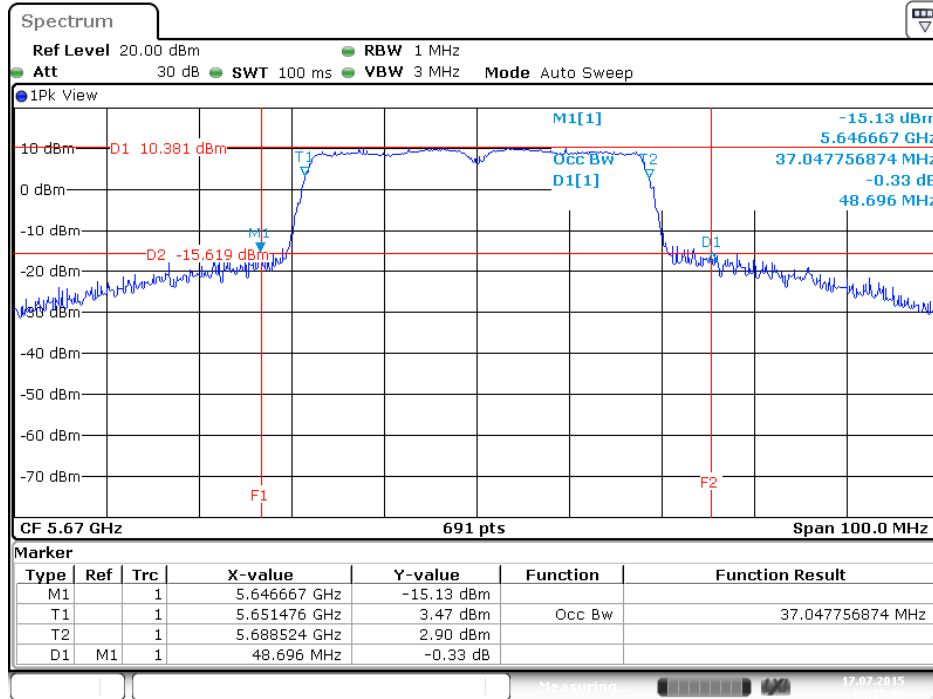
Date: 17 JUL 2015 02:13:01

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1 (1S1T)



Date: 17 JUL 2015 02:13:51

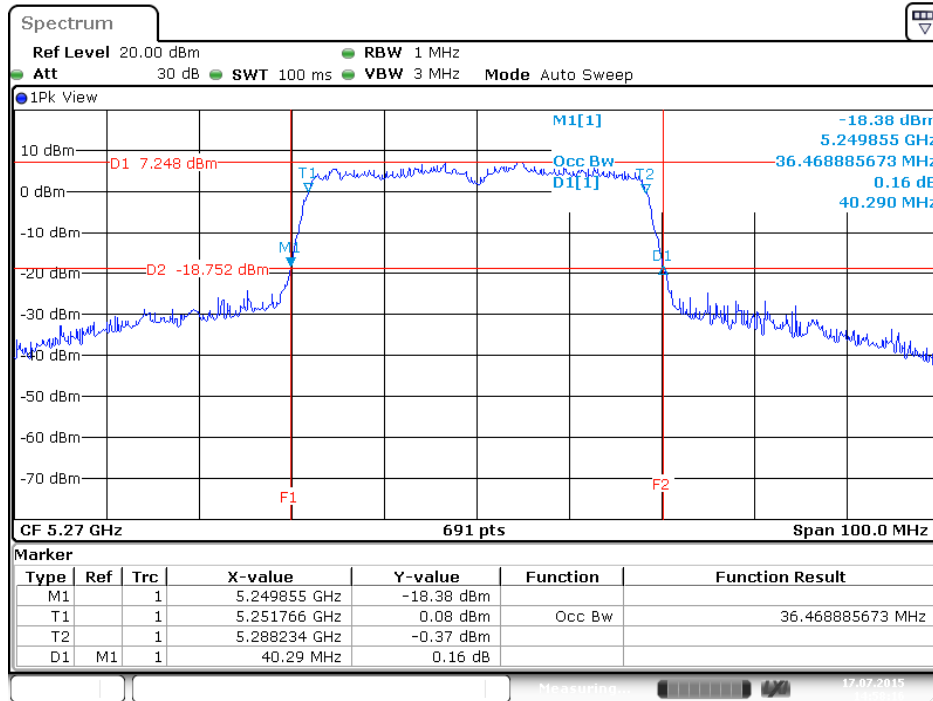
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1 (1S1T)



Date: 17 JUL 2015 02:15:06

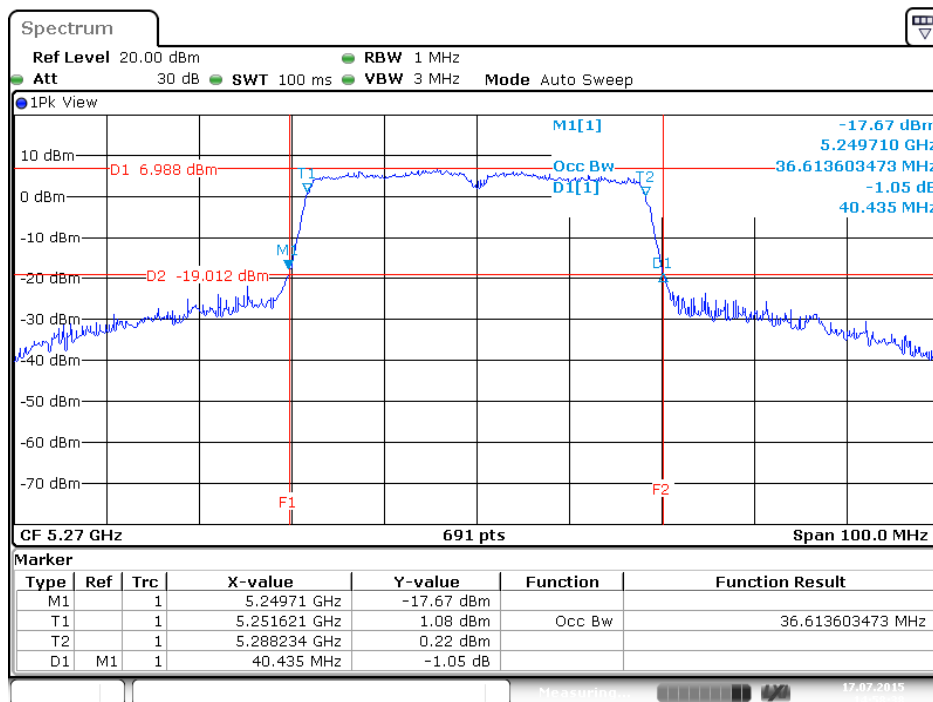
For <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1 (1S3T, CDD2)



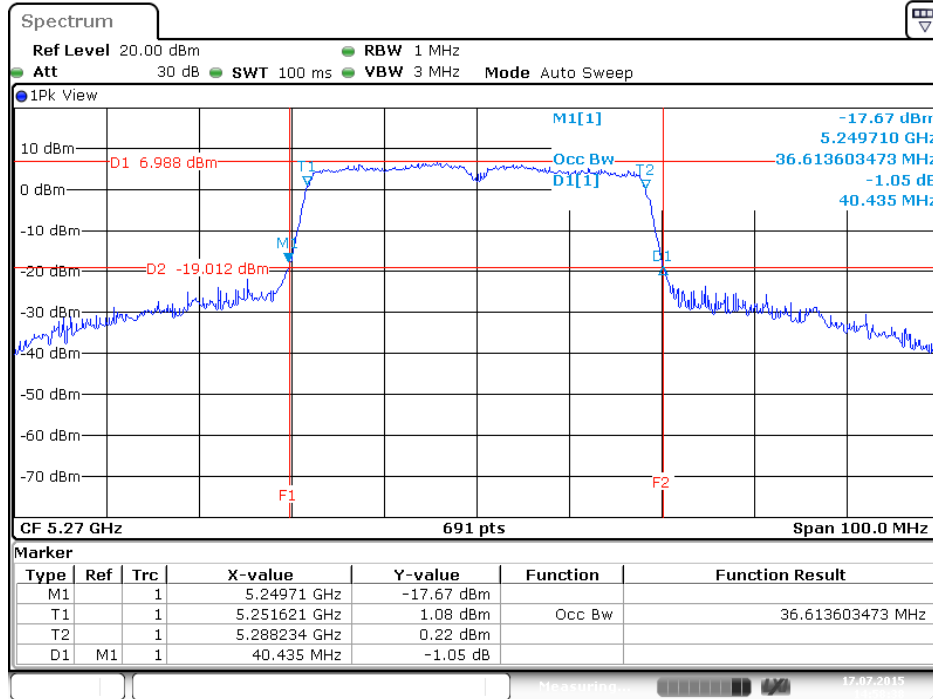
Date: 17 JUL 2015 14:58:16

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 2 (1S3T, CDD2)



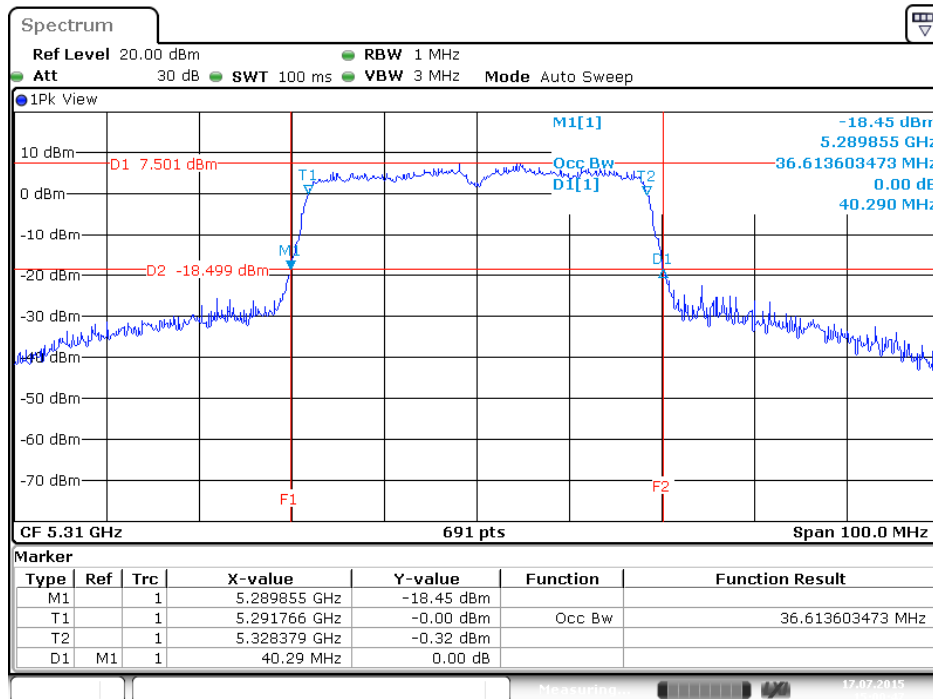
Date: 17 JUL 2015 14:58:38

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 3 (1S3T, CDD2)



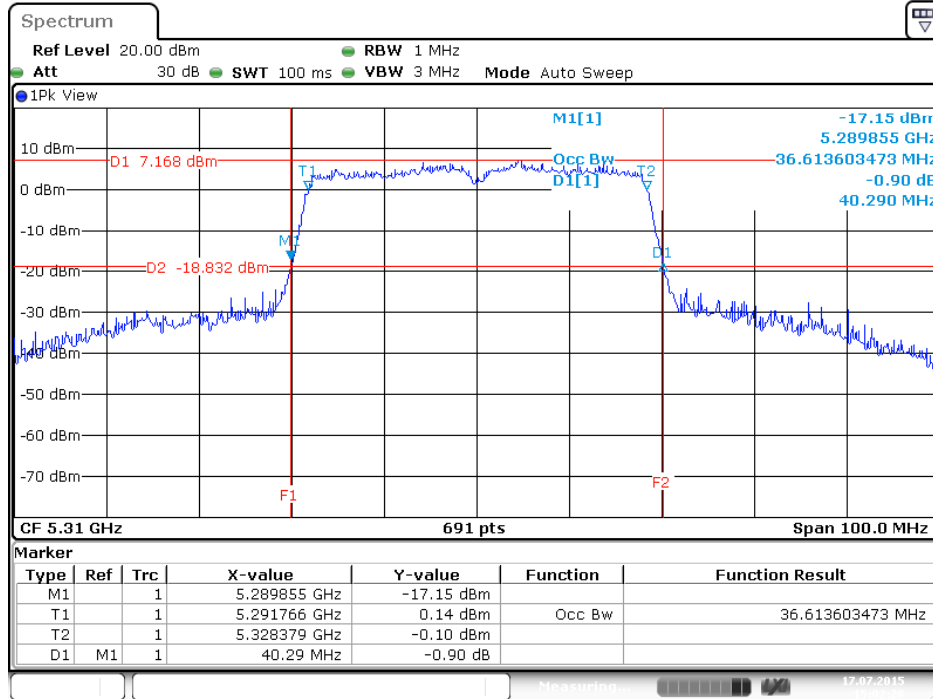
Date: 17 JUL 2015 14:58:38

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1 (1S3T, CDD2)

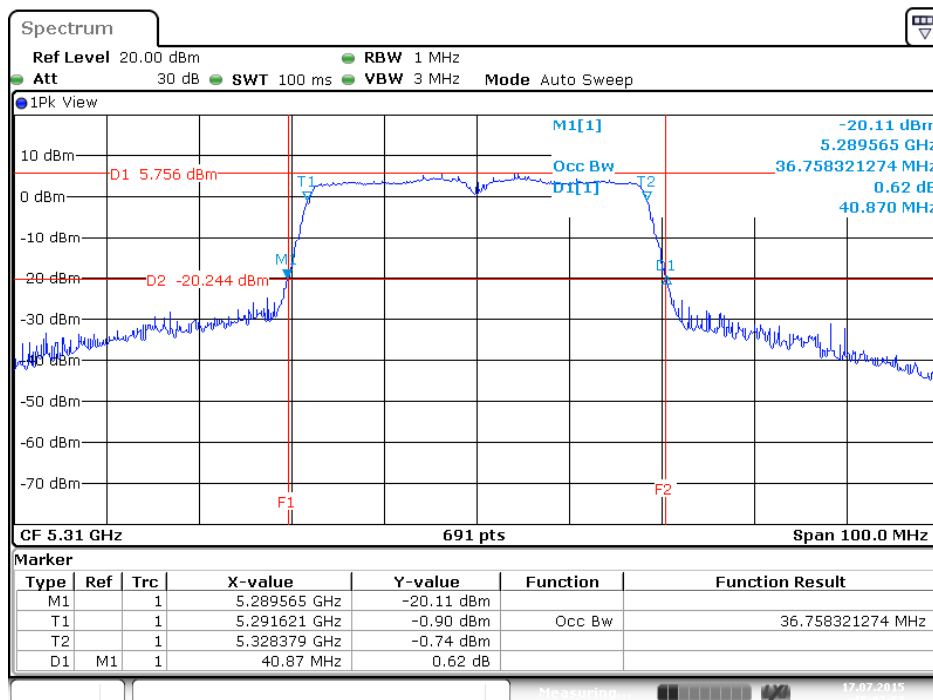


Date: 17 JUL 2015 15:00:48

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 2 (1S3T, CDD2)

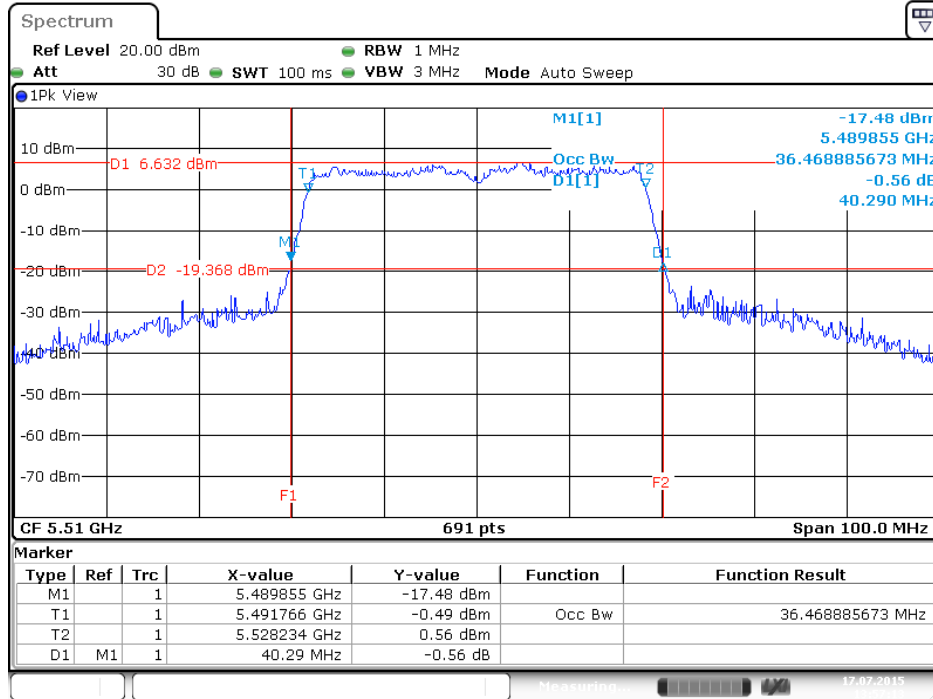


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 3 (1S3T, CDD2)



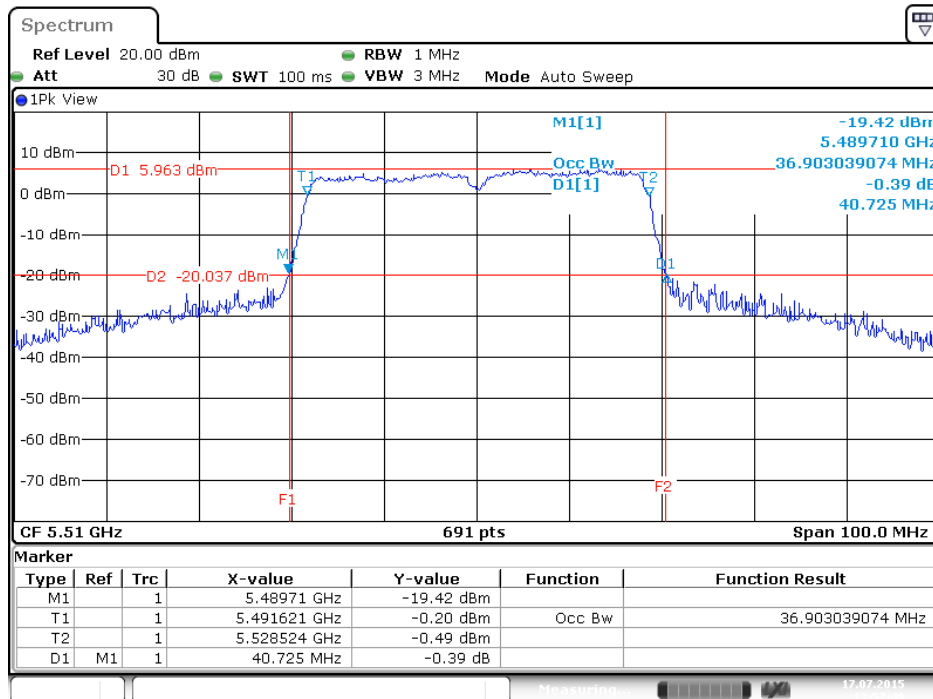


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1 (1S3T, CDD2)



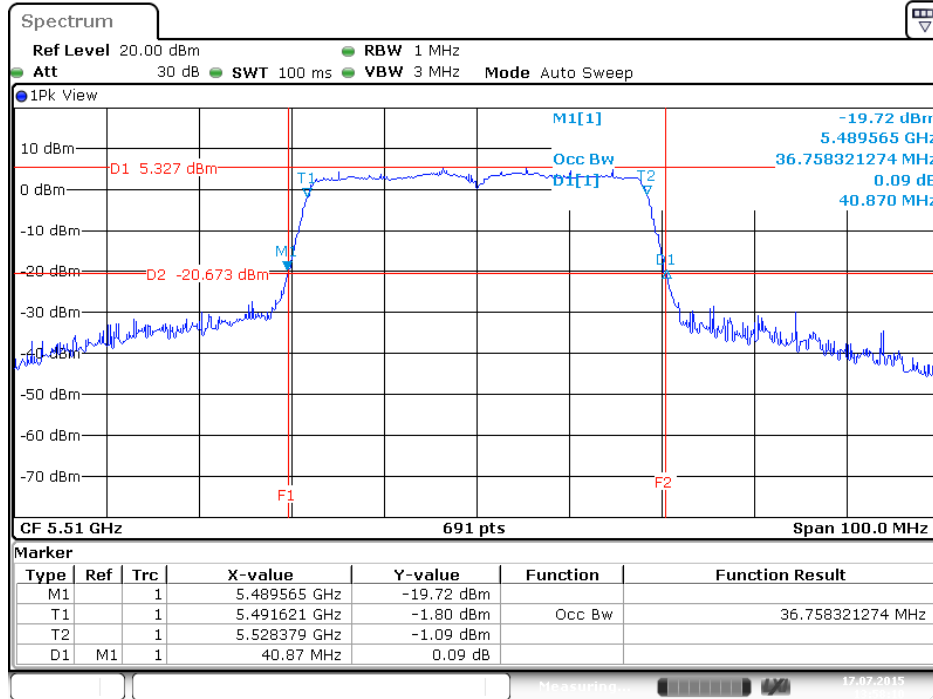
Date: 17 JUL 2015 13:57:13

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 2 (1S3T, CDD2)



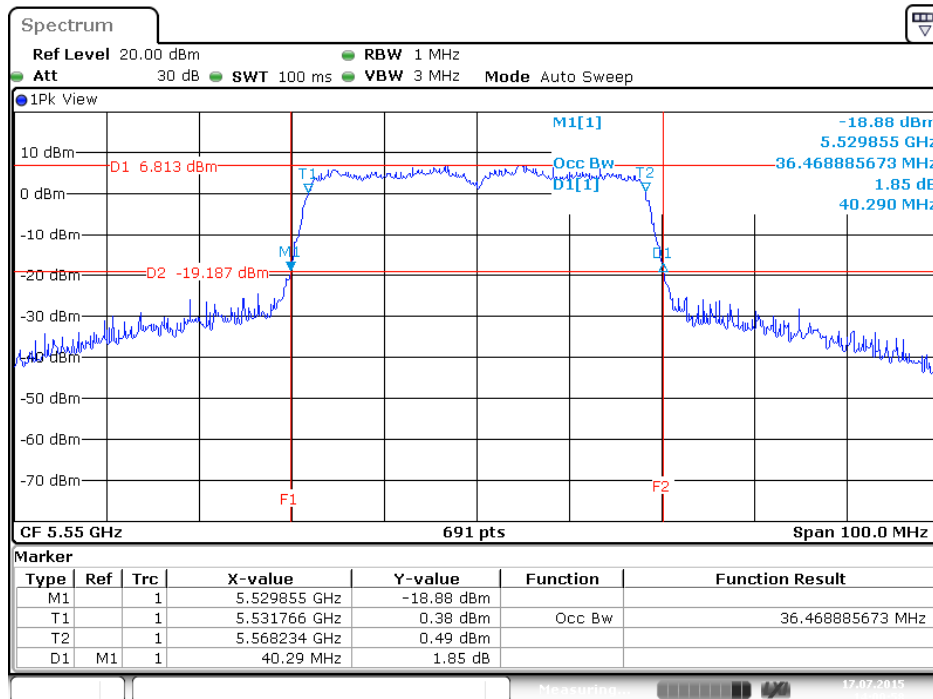
Date: 17 JUL 2015 13:57:49

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 3 (1S3T, CDD2)



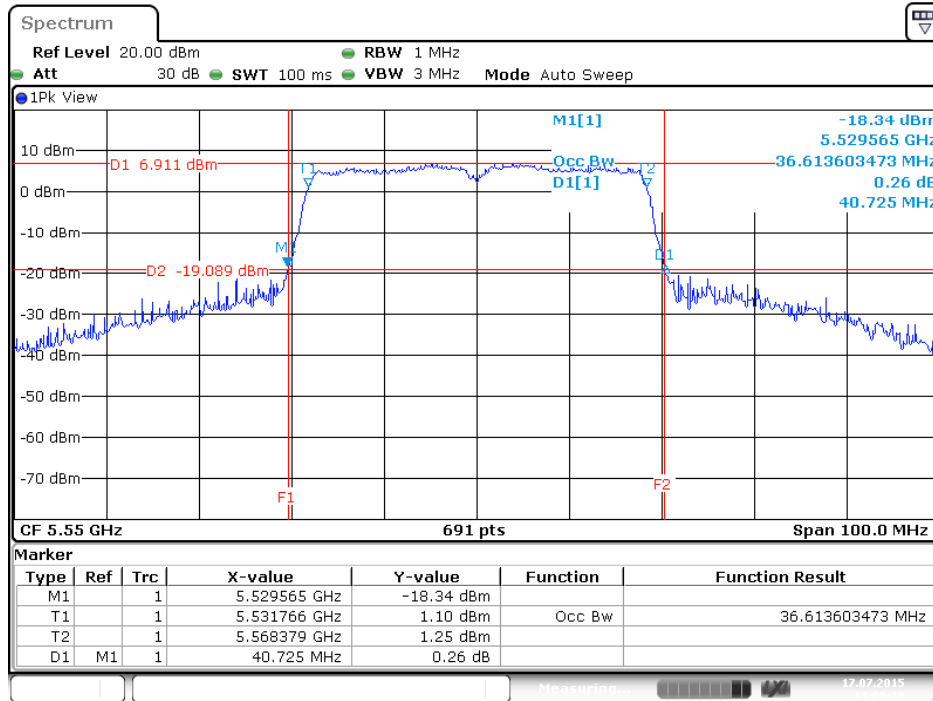
Date: 17 JUL 2015 13:58:10

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1 (1S3T, CDD2)



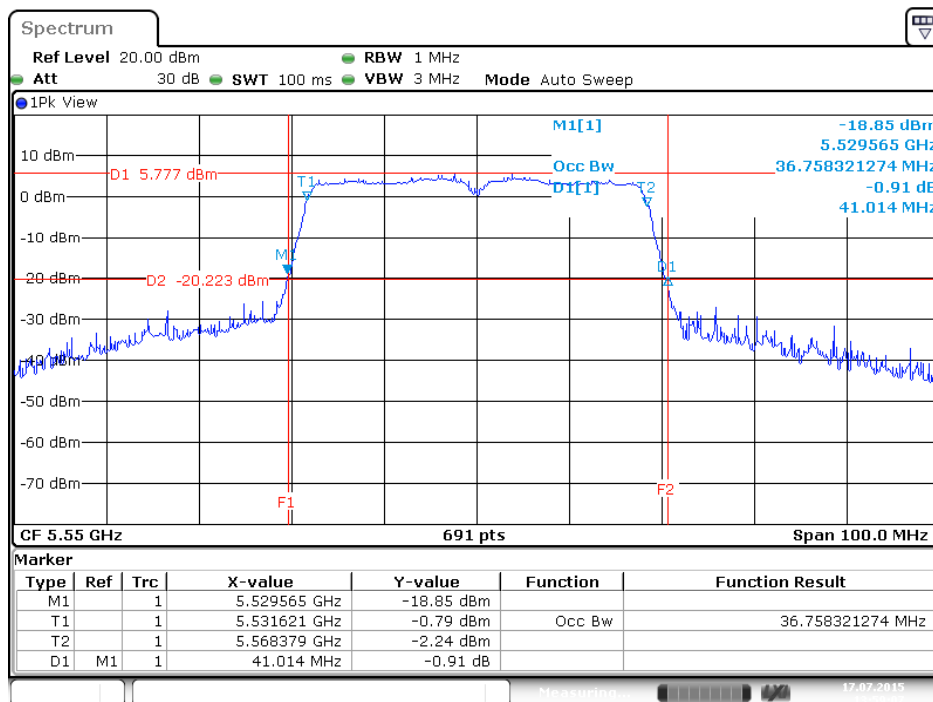
Date: 17 JUL 2015 14:00:58

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 2 (1S3T, CDD2)



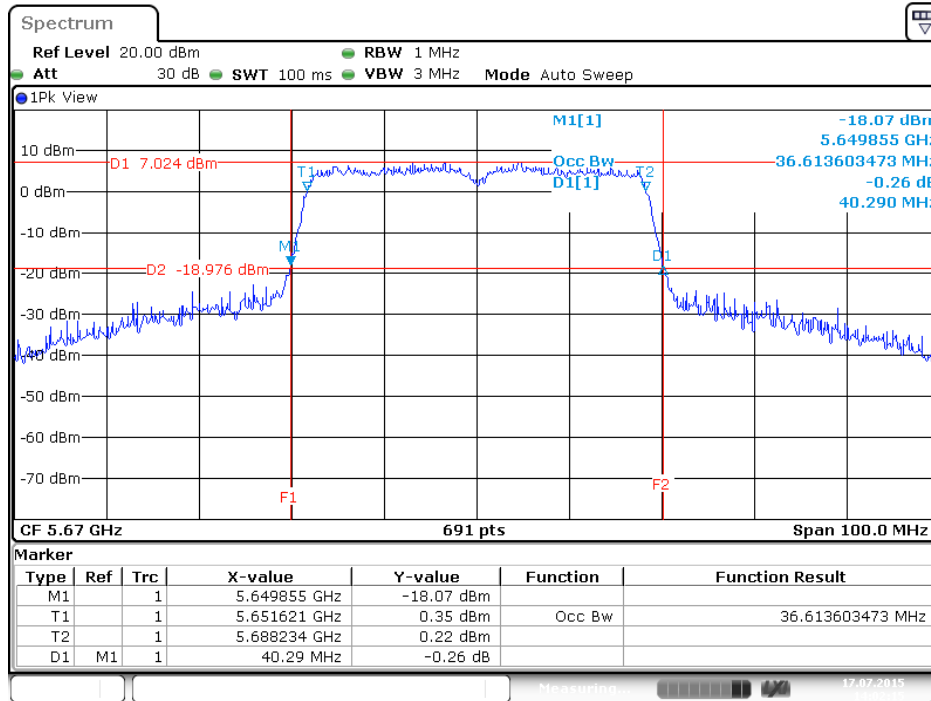
Date: 17 JUL 2015 14:00:21

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 3 (1S3T, CDD2)



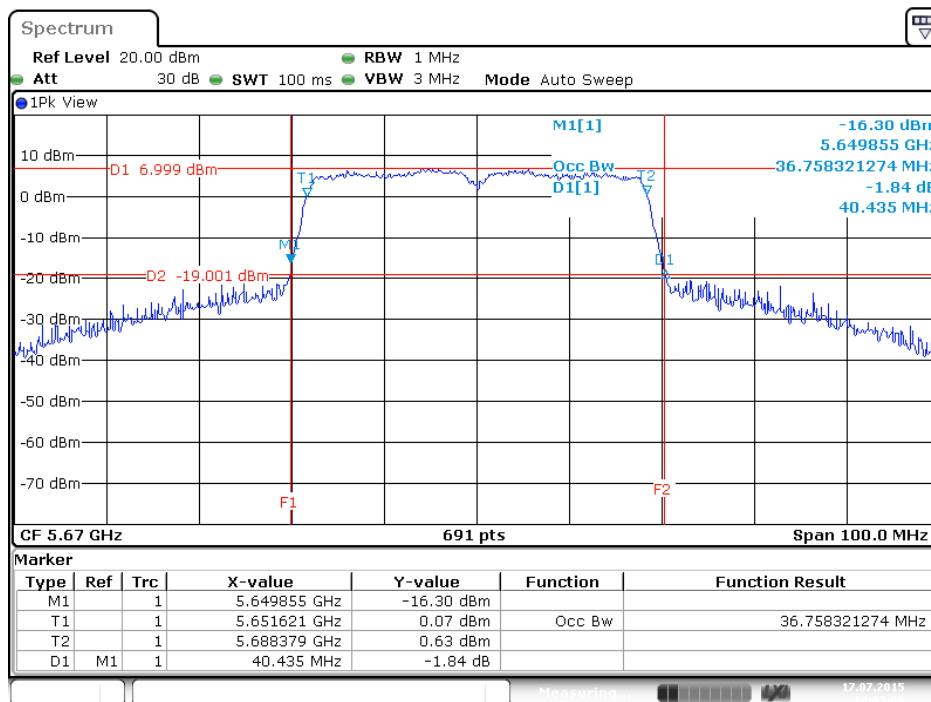
Date: 17 JUL 2015 13:59:07

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1 (1S3T, CDD2)



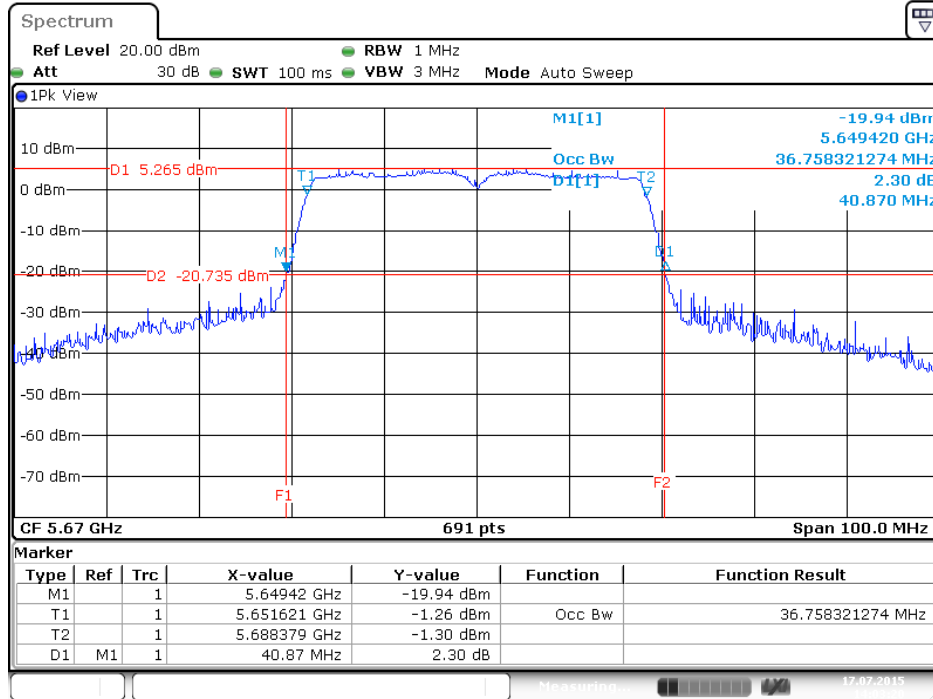
Date: 17 JUL 2015 14:02:14

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 2 (1S3T, CDD2)



Date: 17 JUL 2015 14:03:00

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 3 (1S3T, CDD2)



Date: 17 JUL 2015 14:03:21

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 80MHz
<b>Duty Cycle</b>	< Nss1MCS0, Ant. 1 (1S1T)>: 95.75% <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>: 94.26%		

**Configuration IEEE 802.11ac 80MHz**

**<Nss1MCS0, Ant. 1 (1S1T)>**

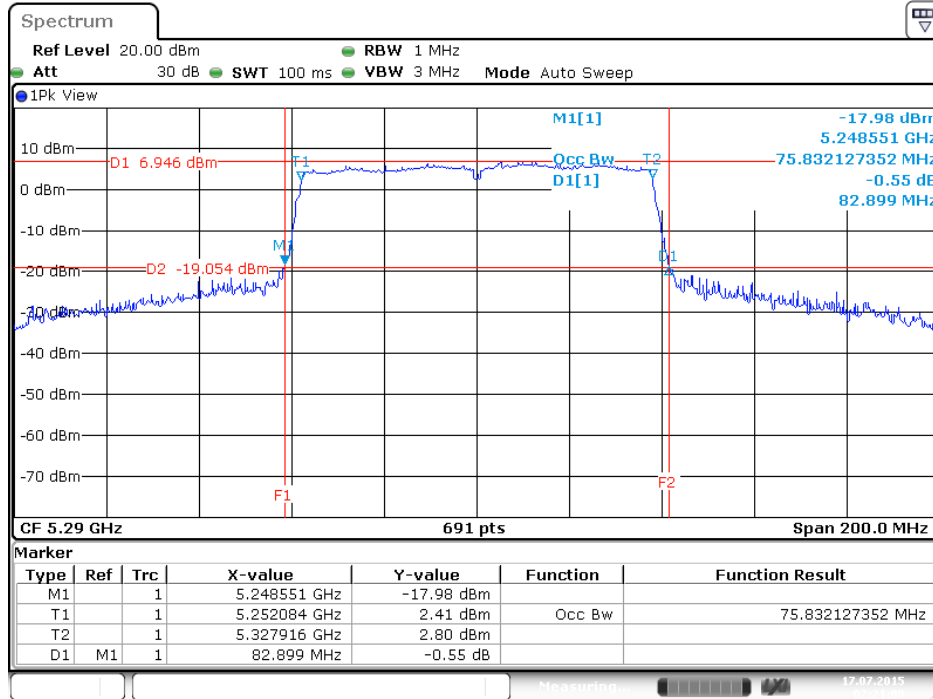
Channel	Frequency	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
58	5290 MHz	82.90	75.83
106	5530 MHz	82.61	75.83

**<Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>**

Channel	Frequency	26dB Bandwidth (MHz)			99% Occupied Bandwidth (MHz)		
		Ant. 1	Ant. 2	Ant. 3	Ant. 1	Ant. 2	Ant. 3
58	5290 MHz	81.73	75.83	82.32	75.83	82.89	75.83
106	5530 MHz	82.03	75.83	82.03	75.83	82.61	75.83

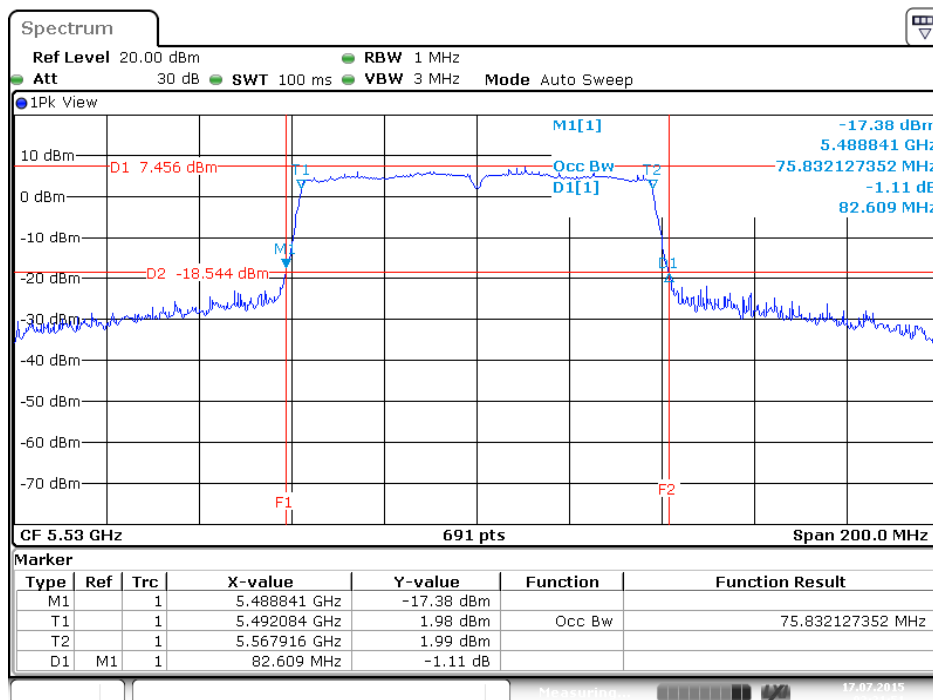
For <Nss1MCS0, Ant. 1 (1S1T)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1 (1S1T)



Date: 17 JUL 2015 02:21:00

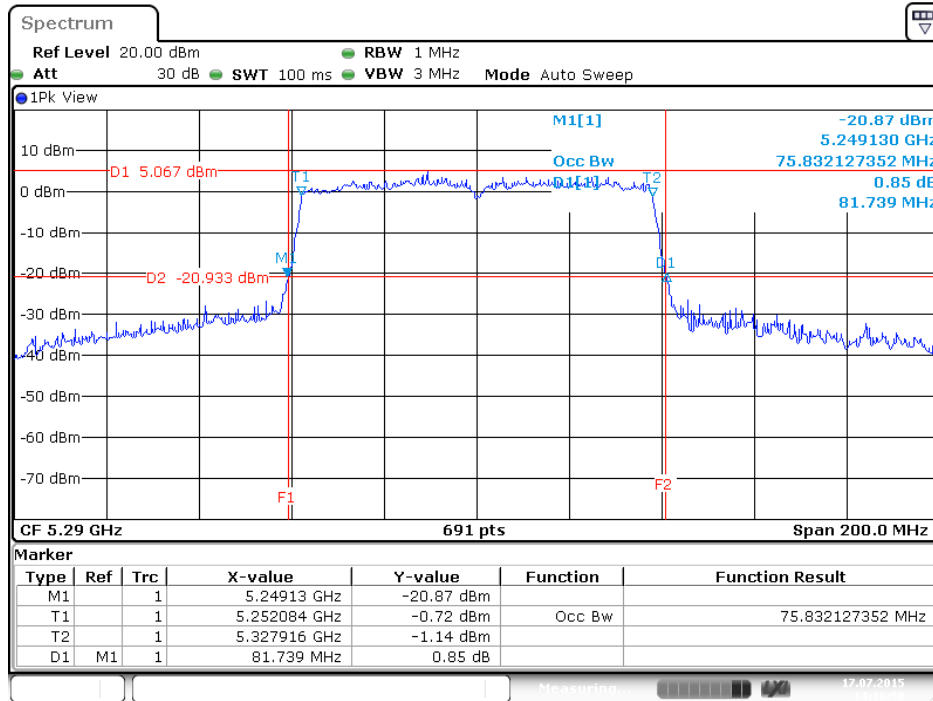
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1 (1S1T)



Date: 17 JUL 2015 02:21:51

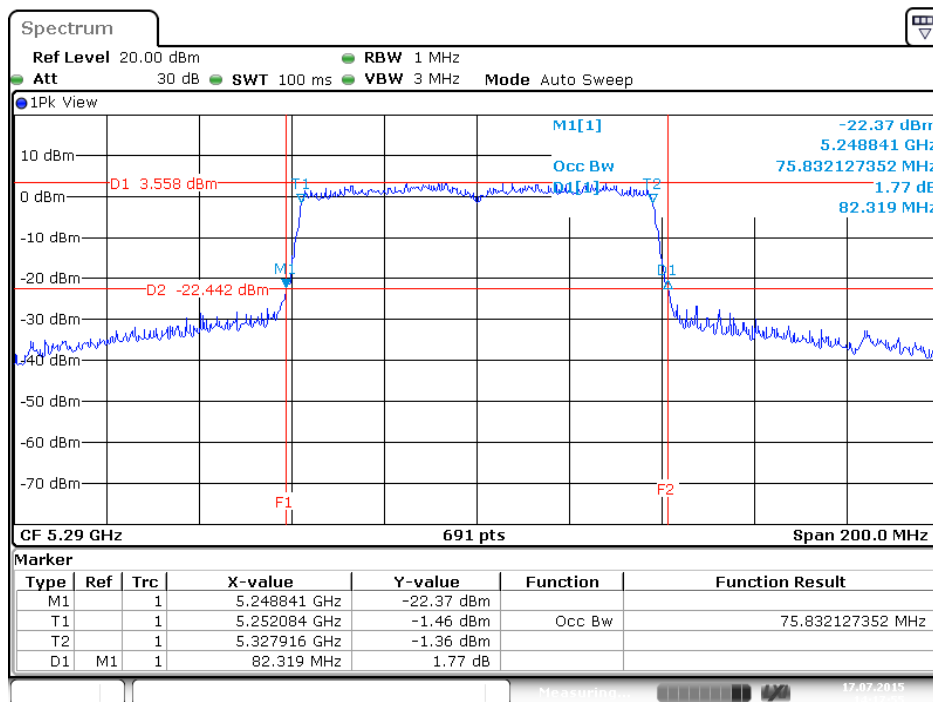
For <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1 (1S3T, CDD2)



Date: 17 JUL 2015 14:16:58

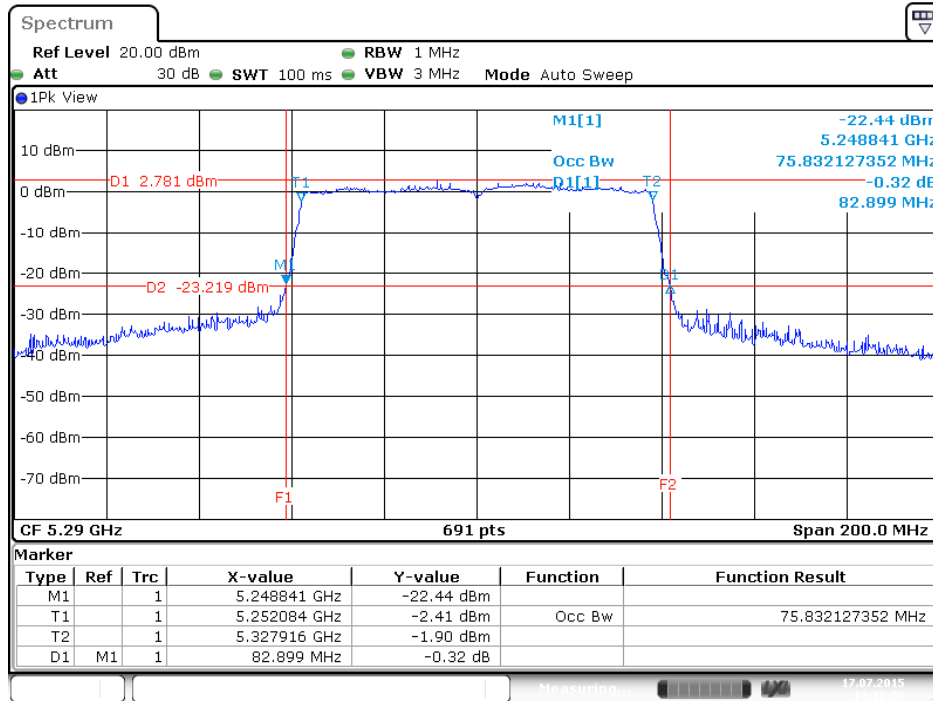
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 2 (1S3T, CDD2)



Date: 17 JUL 2015 14:17:55

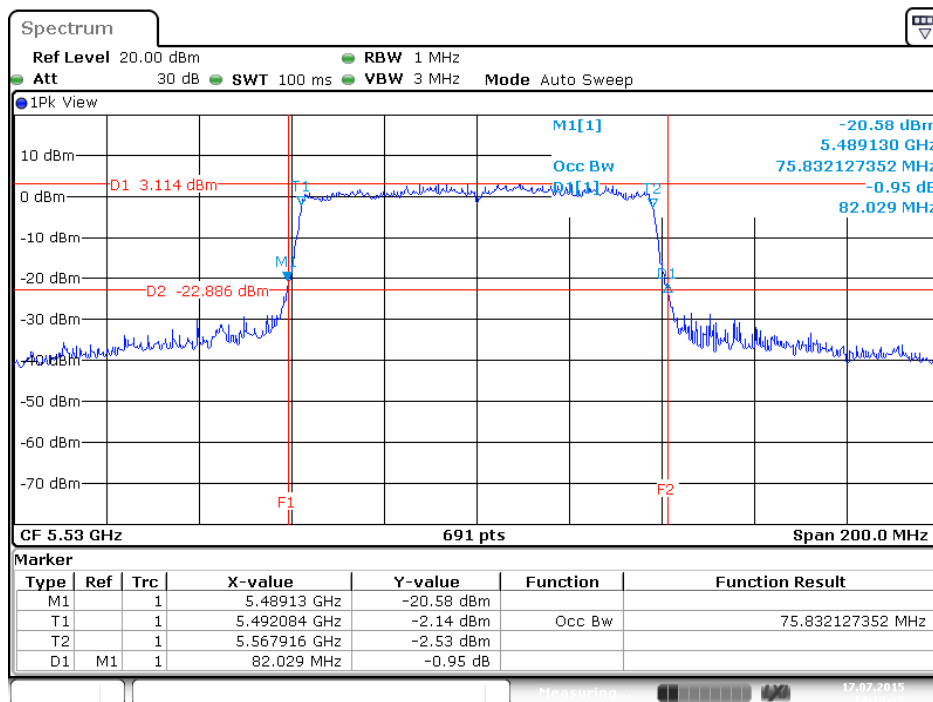


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 3 (1S3T, CDD2)



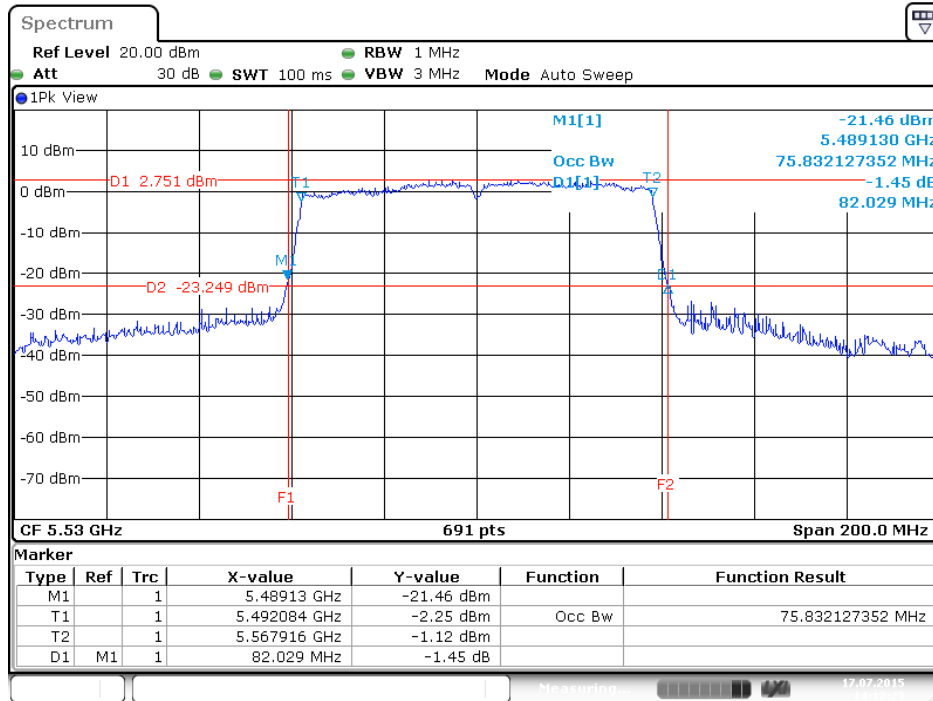
Date: 17 JUL 2015 14:18:20

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1 (1S3T, CDD2)



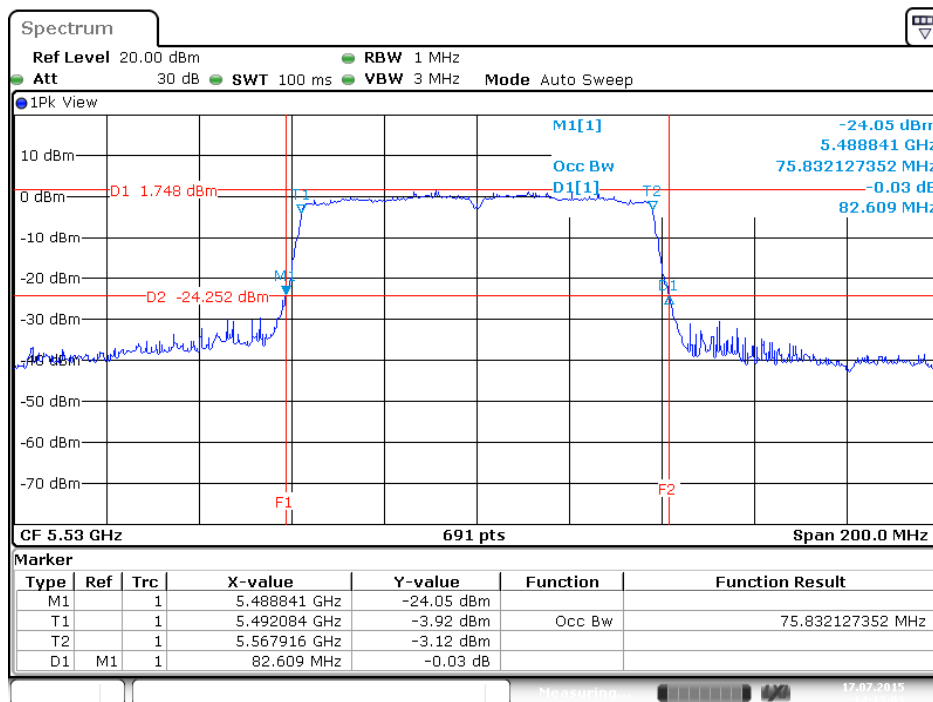
Date: 17 JUL 2015 14:10:28

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 2 (1S3T, CDD2)



Date: 17 JUL 2015 14:12:23

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 3 (1S3T, CDD2)



Date: 17 JUL 2015 14:13:03

**For Beamforming**

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 20MHz
<b>Duty Cycle</b>	<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>: 95.59%		

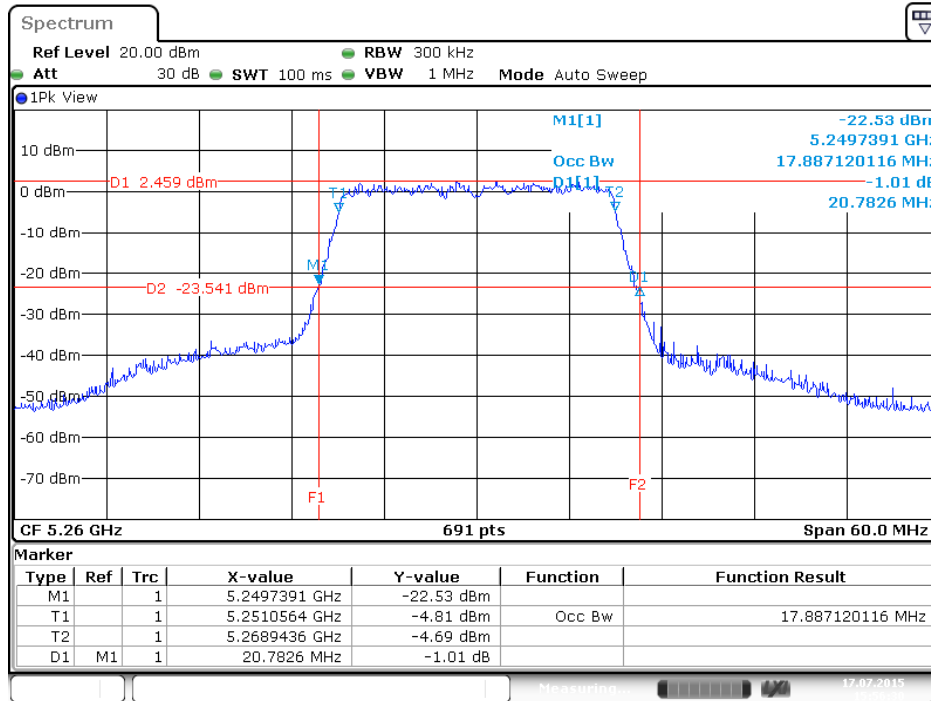
**Configuration IEEE 802.11ac 20MHz**

**<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>**

Channel	Frequency	26dB Bandwidth (MHz)			99% Occupied Bandwidth (MHz)		
		Ant. 1	Ant. 2	Ant. 3	Ant. 1	Ant. 2	Ant. 3
52	5260 MHz	20.78	17.88	20.52	17.80	20.43	17.88
60	5300 MHz	20.52	17.97	20.69	17.97	20.34	17.88
64	5320 MHz	20.34	17.88	20.34	17.88	20.52	17.80
100	5500 MHz	20.52	17.88	20.69	17.88	20.34	17.88
116	5580 MHz	20.43	17.88	20.60	17.88	20.43	17.88
140	5700 MHz	20.52	17.88	20.52	17.88	20.52	17.88

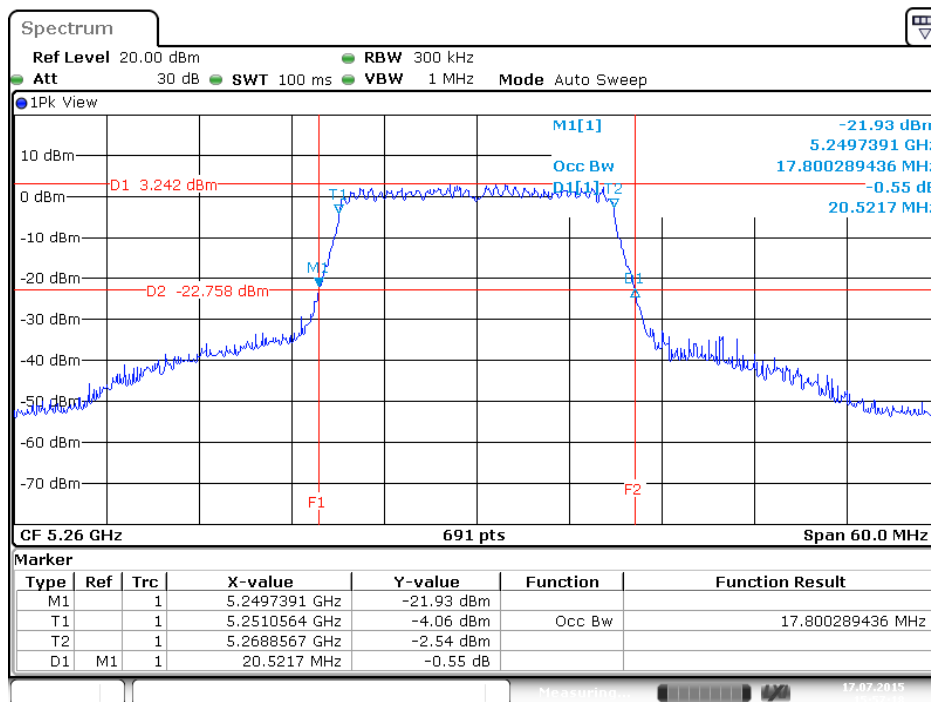
For <Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1 (1S3T, TxBF2)



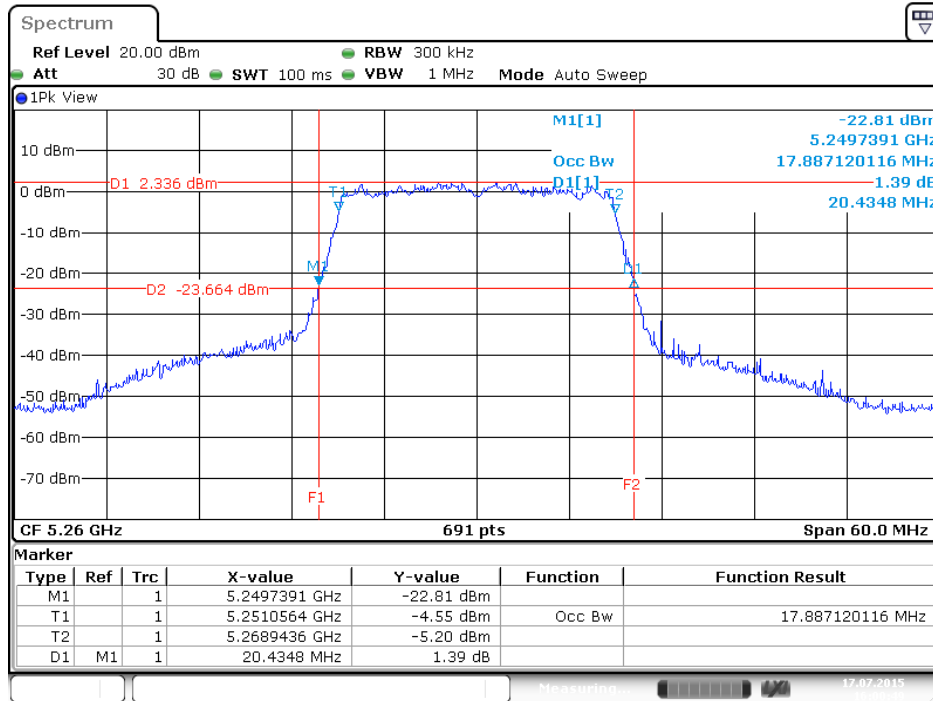
Date: 17 JUL 2015 15:56:30

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 2 (1S3T, TxBF2)



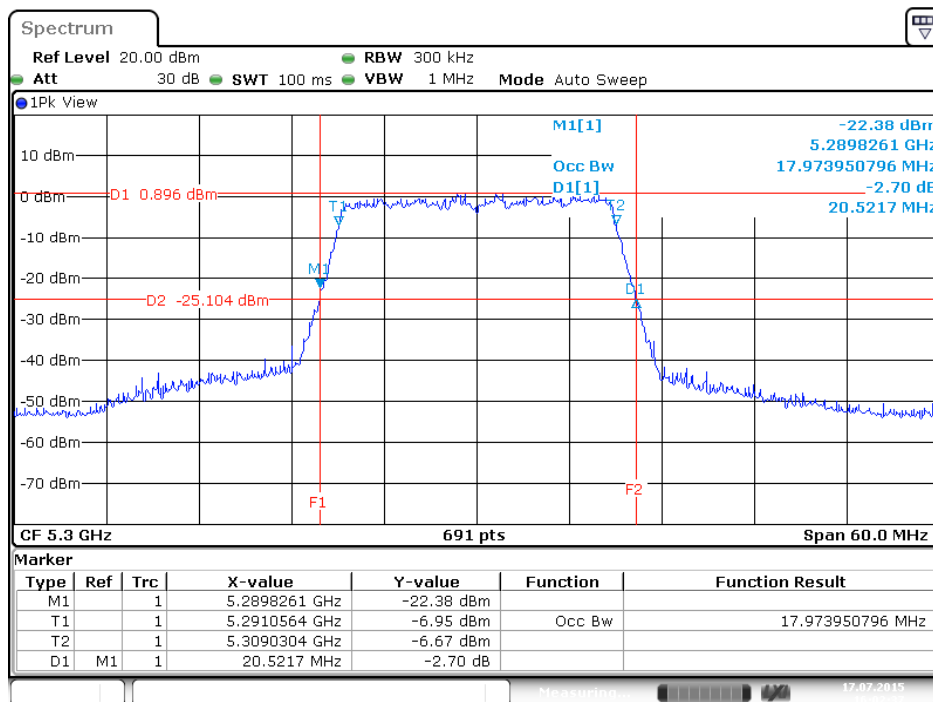
Date: 17 JUL 2015 15:57:19

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 3 (1S3T, TxBF2)



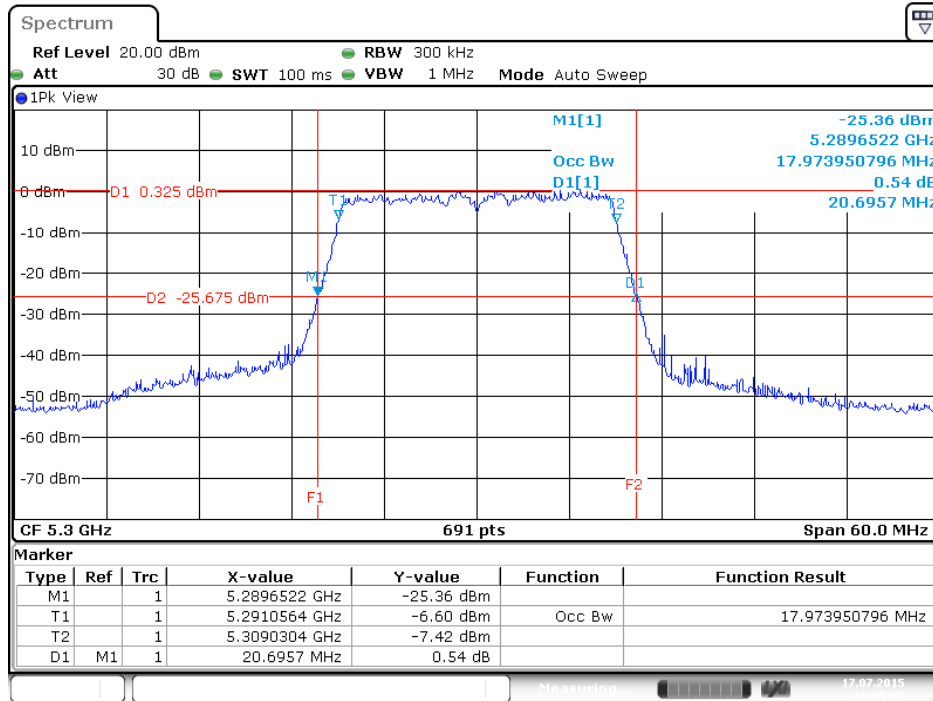
Date: 17 JUL 2015 16:00:49

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1 (1S3T, TxBF2)



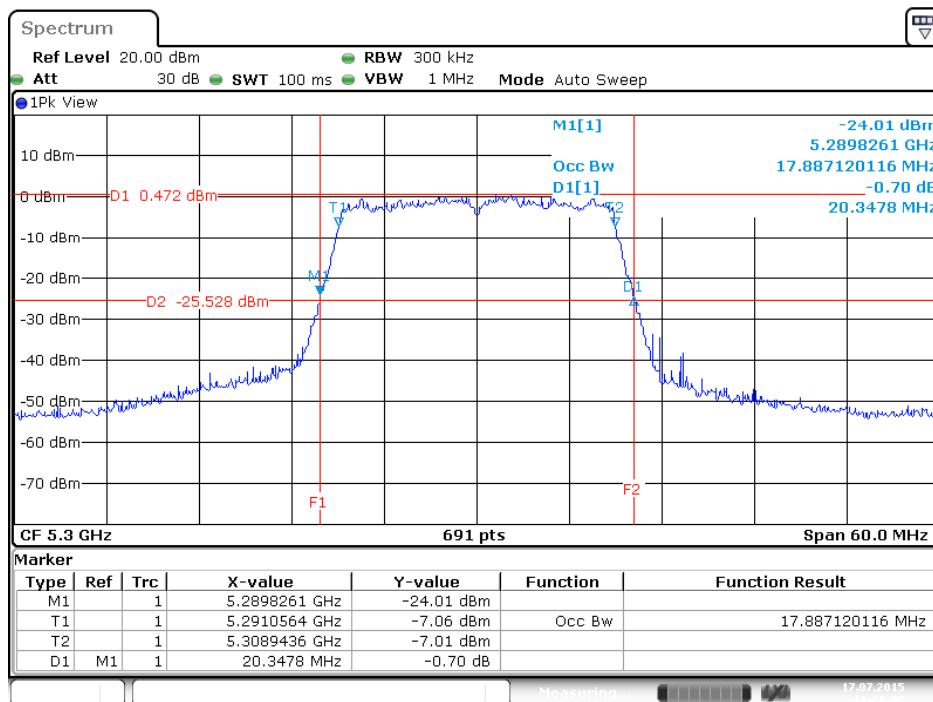
Date: 17 JUL 2015 16:02:38

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 2 (1S3T, TxBF2)



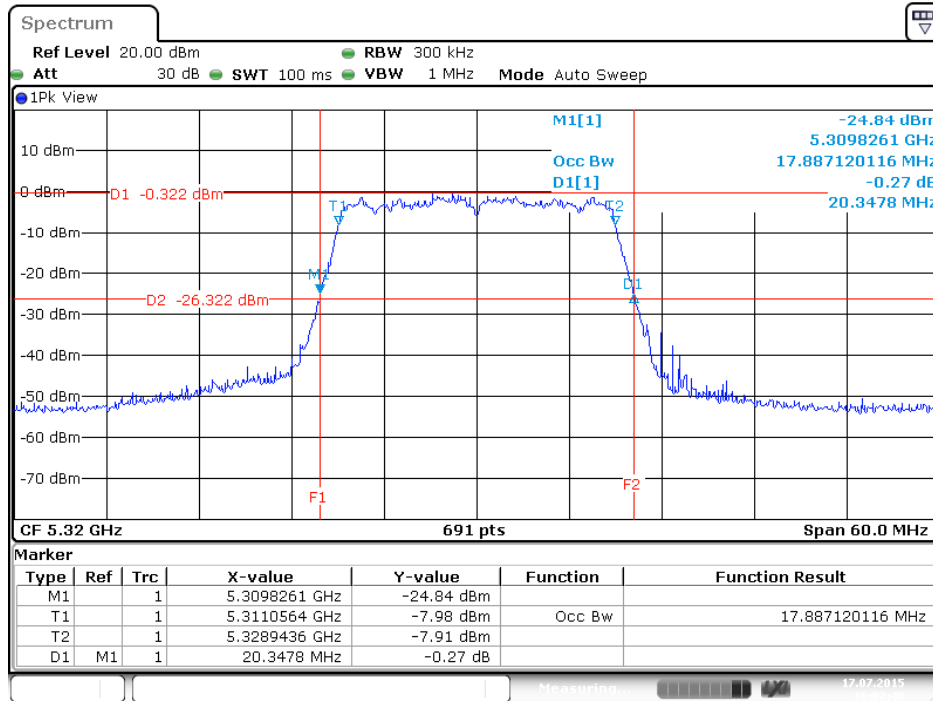
Date: 17 JUL 2015 16:05:04

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 3 (1S3T, TxBF2)



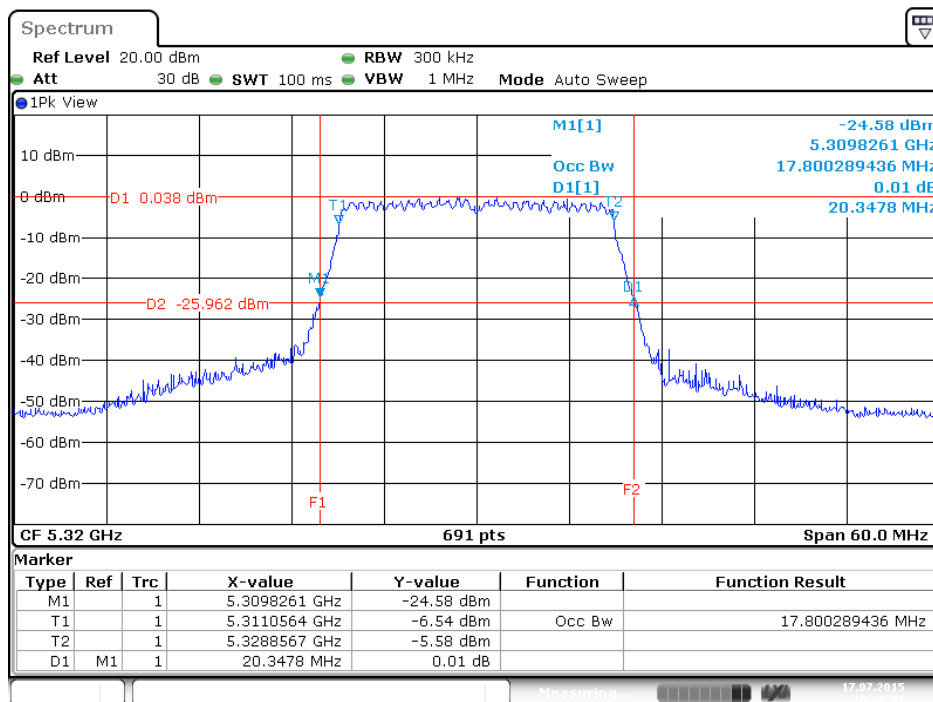
Date: 17 JUL 2015 16:06:06

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1 (1S3T, TxBF2)



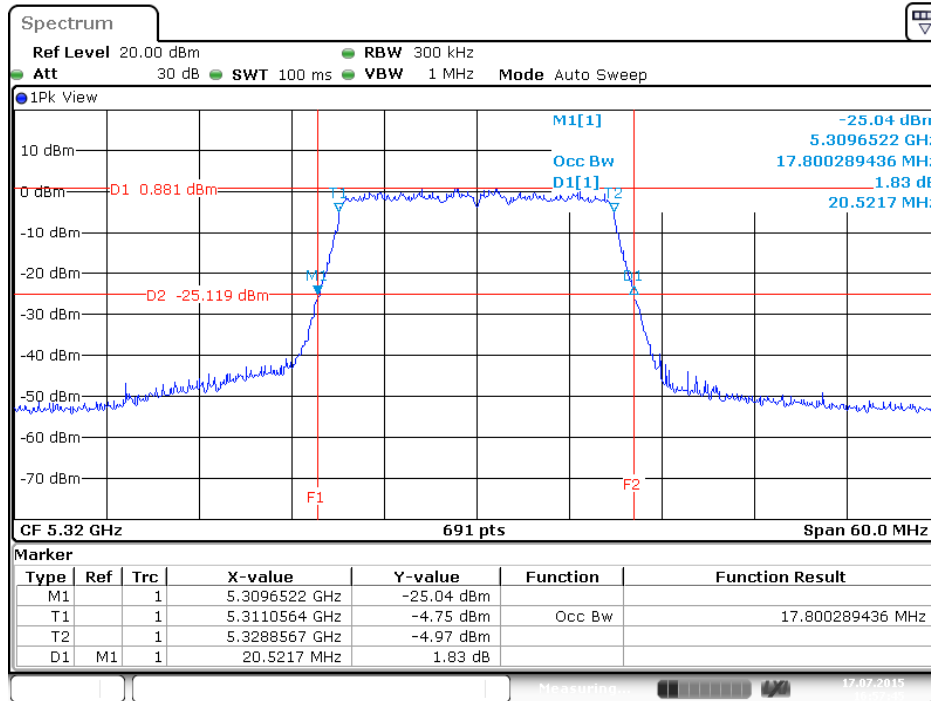
Date: 17 JUL 2015 16:07:48

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 2 (1S3T, TxBF2)



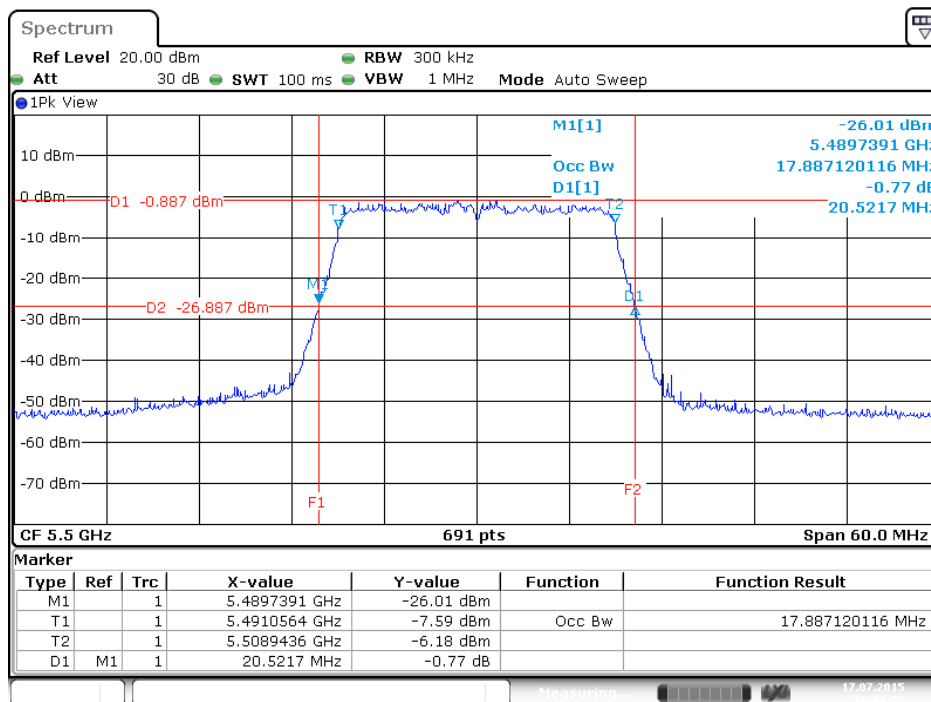
Date: 17 JUL 2015 16:08:32

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 3 (1S3T, TxBF2)



Date: 17 JUL 2015 16:57:45

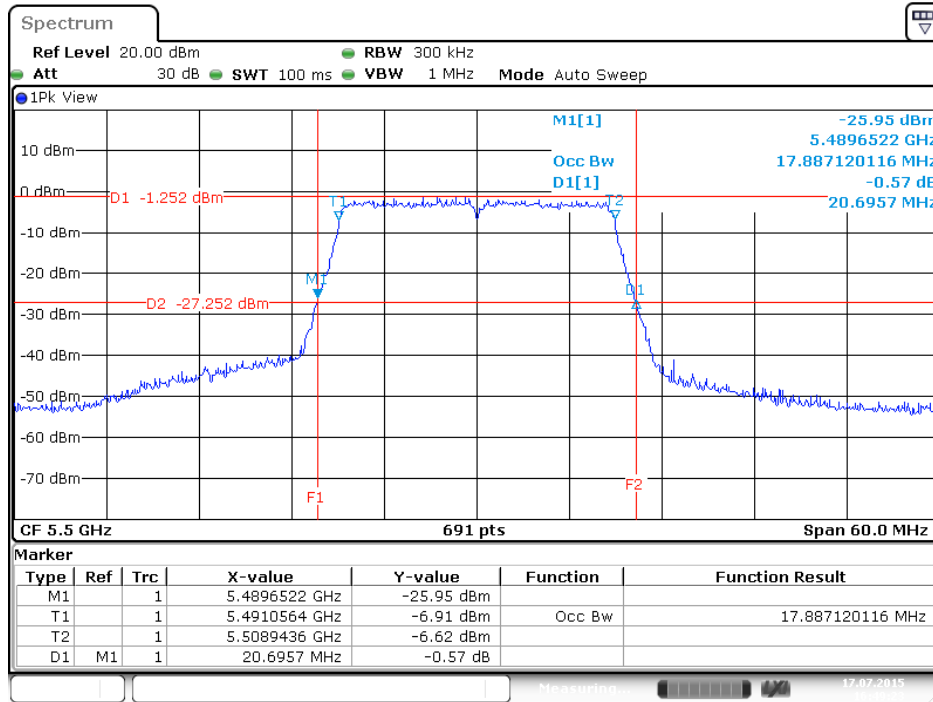
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1 (1S3T, TxBF2)



Date: 17 JUL 2015 16:48:52

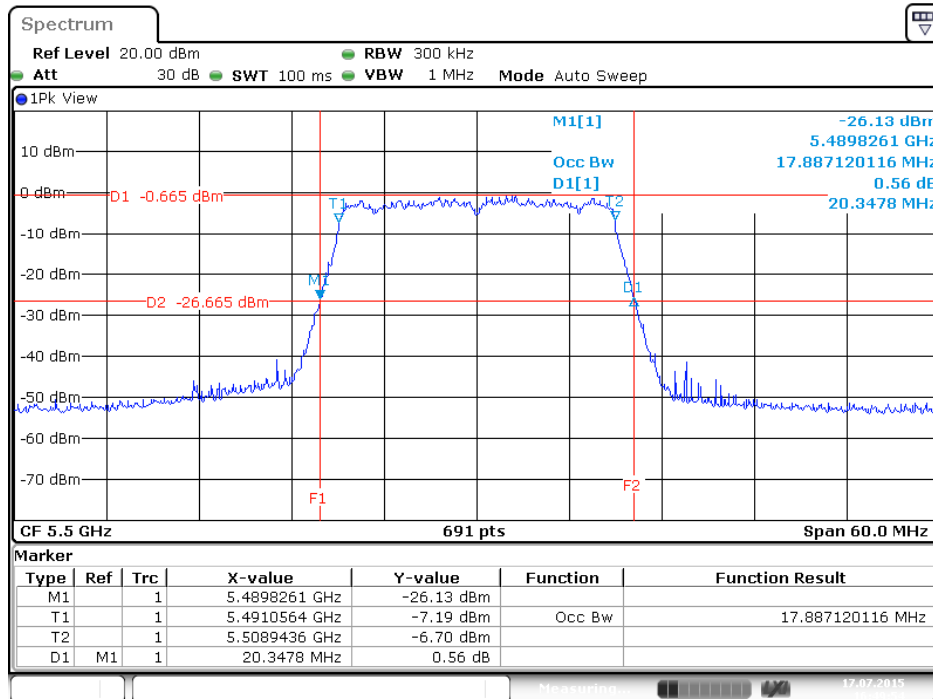


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 2 (1S3T, TxBF2)



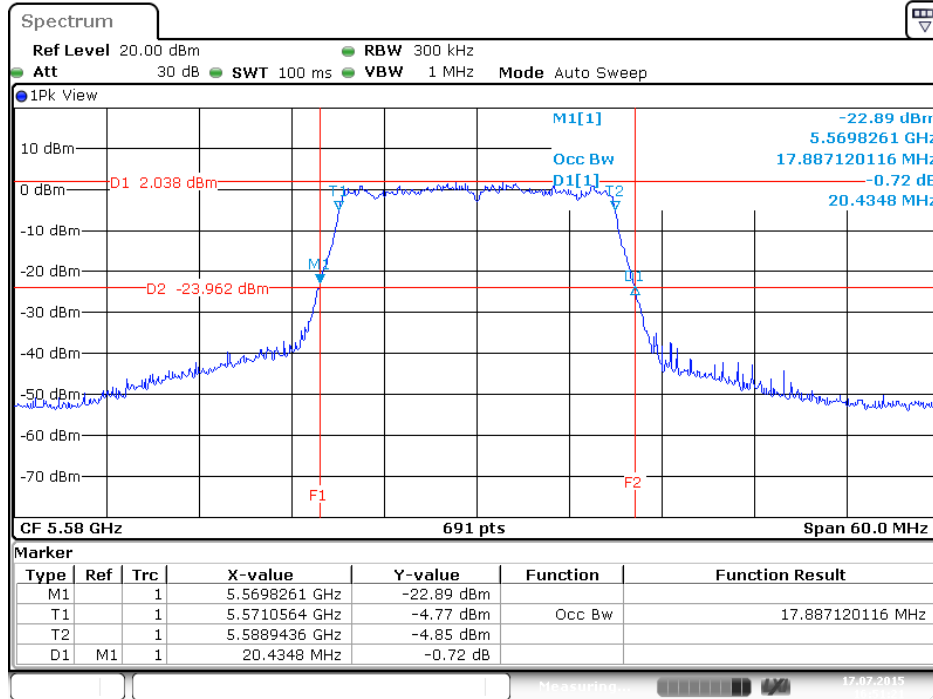
Date: 17 JUL 2015 16:49:23

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 3 (1S3T, TxBF2)



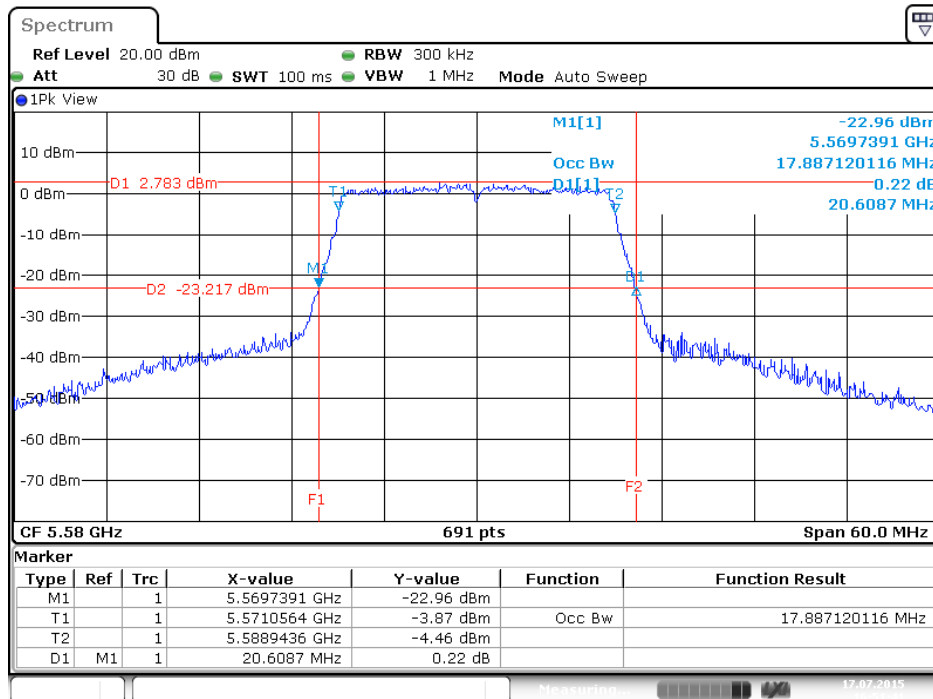
Date: 17 JUL 2015 16:49:53

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1 (1S3T, TxBF2)



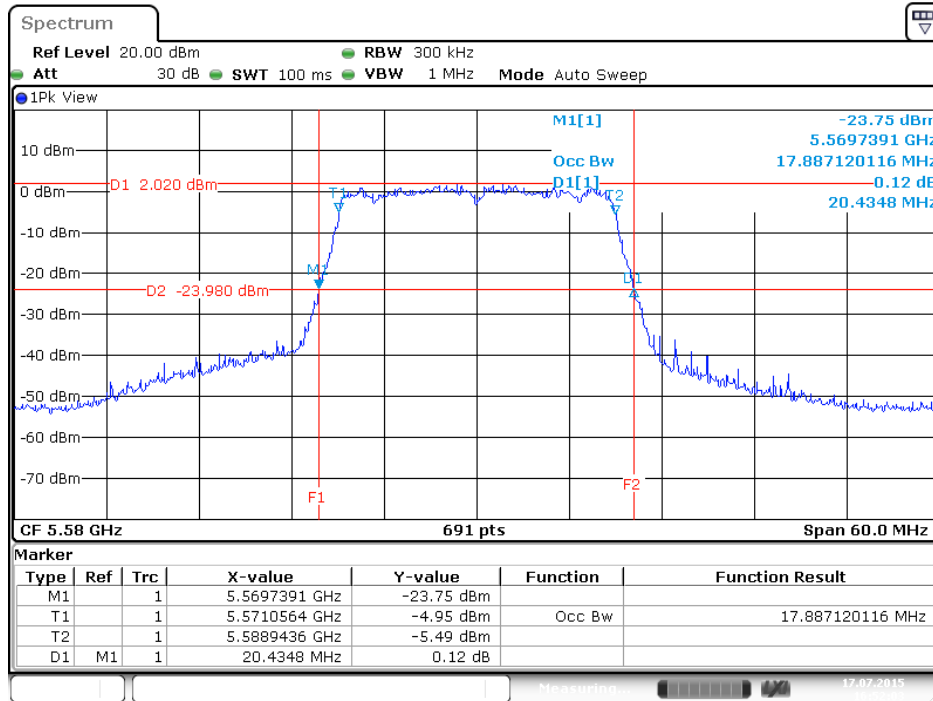
Date: 17 JUL 2015 16:51:21

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 2 (1S3T, TxBF2)

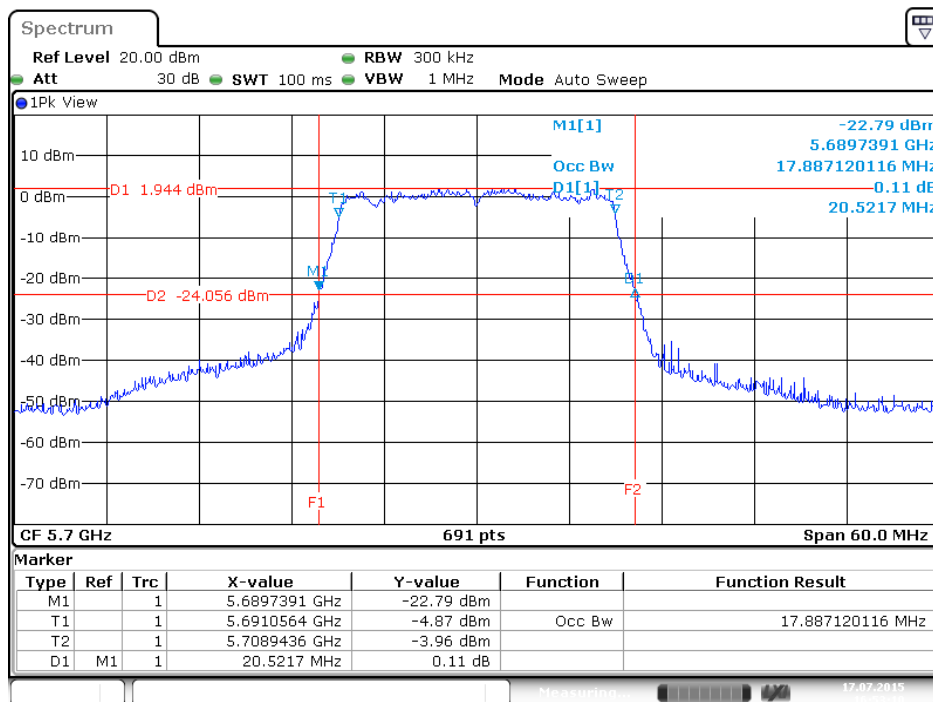


Date: 17 JUL 2015 16:51:42

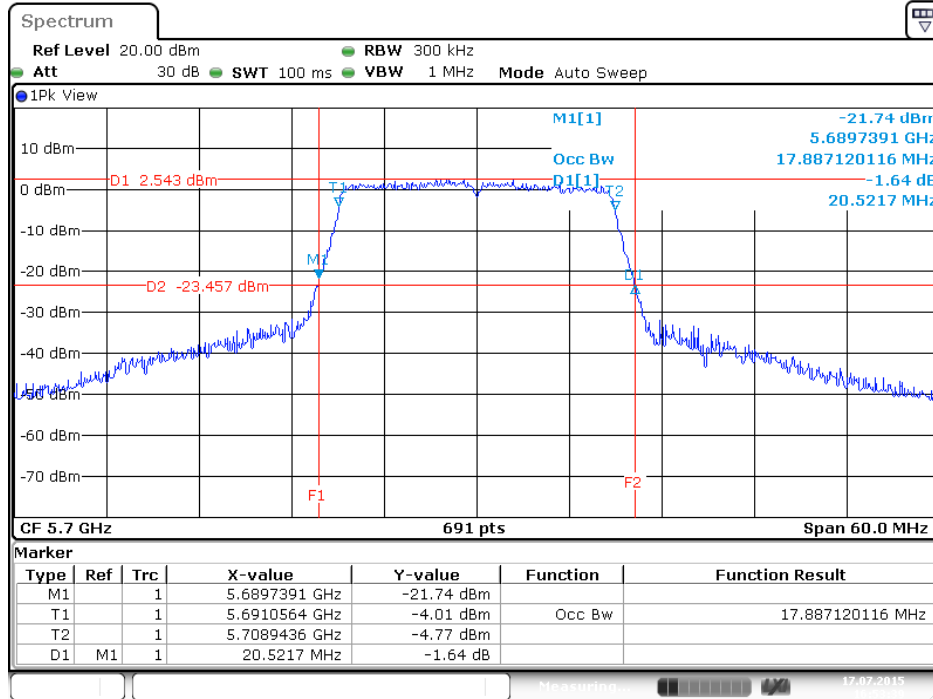
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 3 (1S3T, TxBF2)



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1 (1S3T, TxBF2)

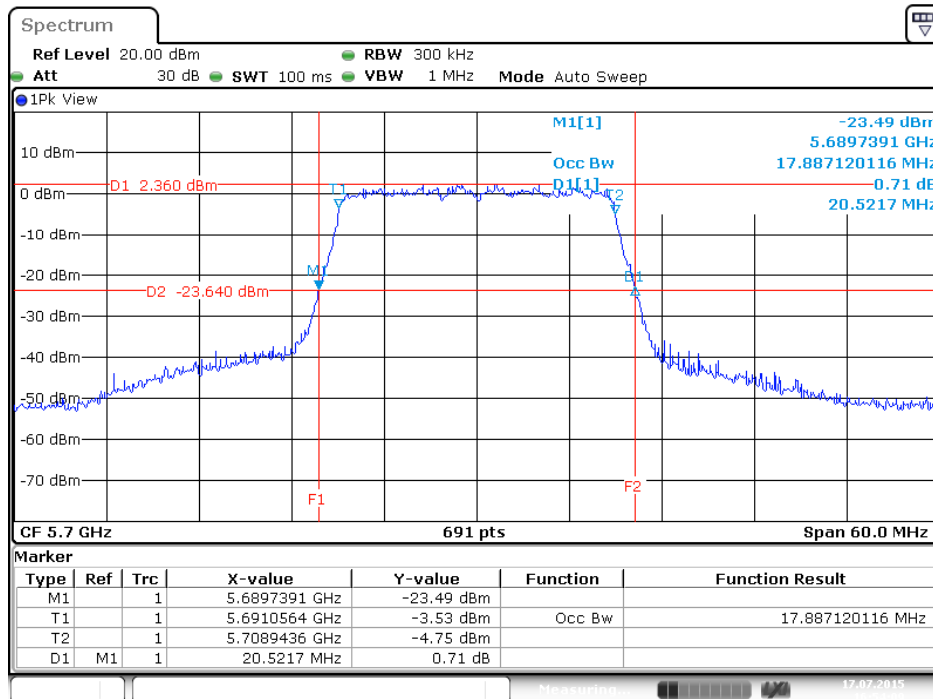


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 2 (1S3T, TxBF2)



Date: 17 JUL 2015 16:53:39

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 3 (1S3T, TxBF2)



Date: 17 JUL 2015 16:54:09

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 40MHz
<b>Duty Cycle</b>	<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>: 90.82%		

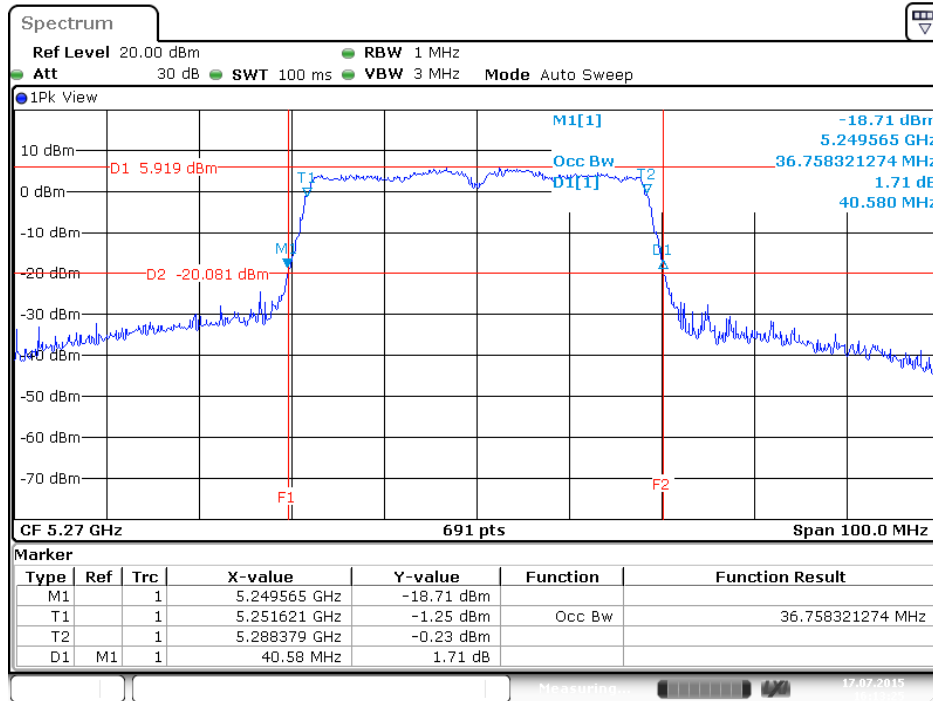
**Configuration IEEE 802.11ac 40MHz**

**<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>**

Channel	Frequency	26dB Bandwidth (MHz)			99% Occupied Bandwidth (MHz)		
		Ant. 1	Ant. 2	Ant. 3	Ant. 1	Ant. 2	Ant. 3
54	5270 MHz	40.58	36.75	40.72	36.61	40.58	36.61
62	5310 MHz	40.43	36.61	40.87	36.75	40.72	36.61
102	5510 MHz	40.58	36.75	40.72	36.75	41.01	36.75
110	5550 MHz	40.72	36.61	40.43	36.46	40.58	36.61
134	5670 MHz	40.58	36.61	40.72	36.75	40.72	36.75

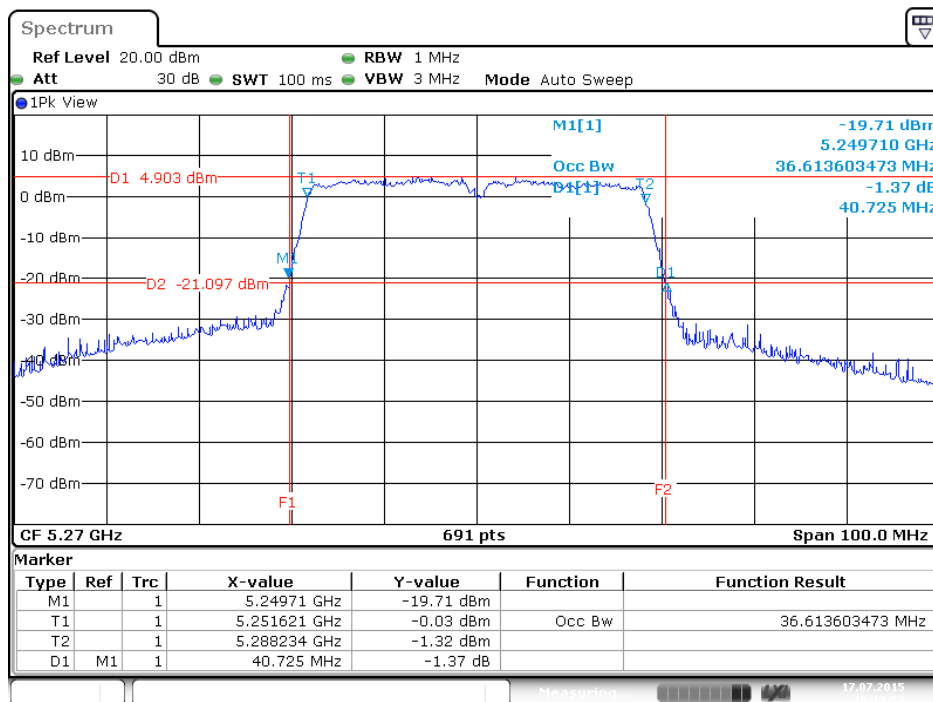
For <Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1 (1S3T, TxBF2)



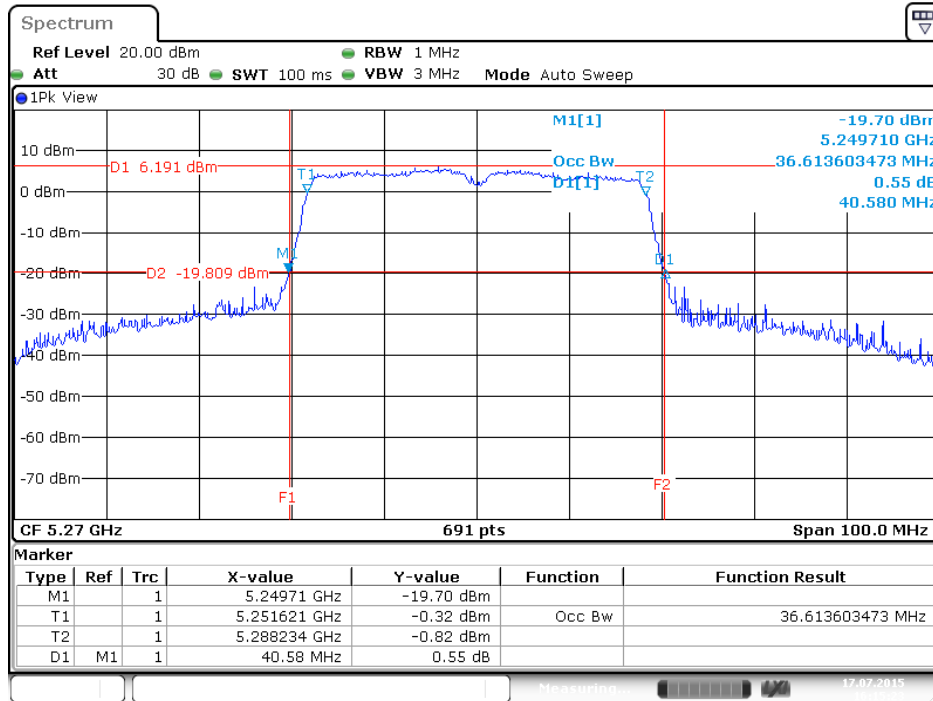
Date: 17 JUL 2015 16:13:26

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 2 (1S3T, TxBF2)



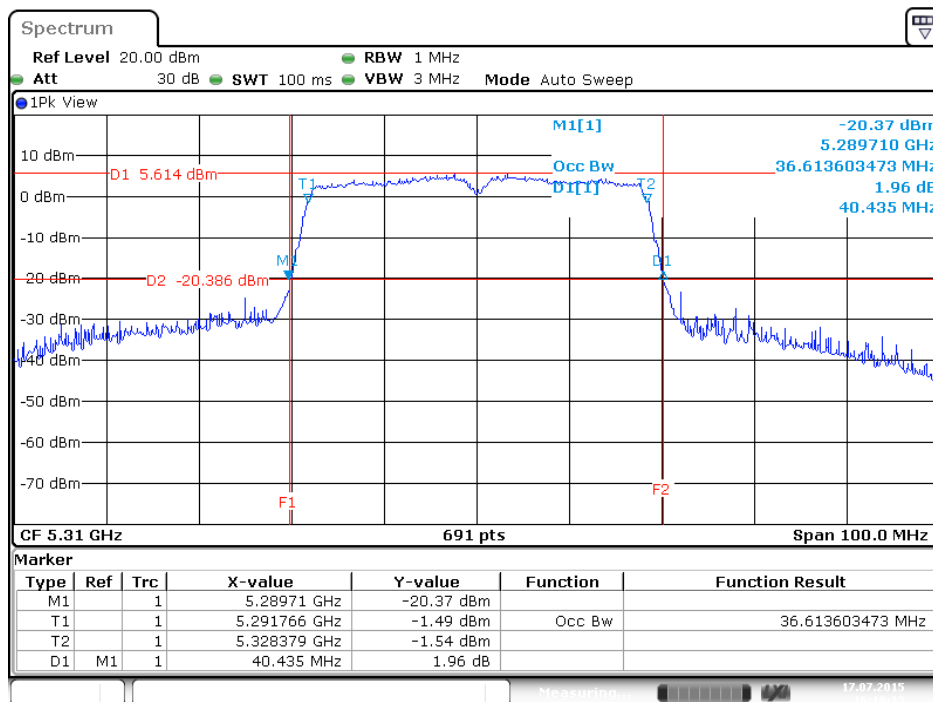
Date: 17 JUL 2015 16:14:50

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 3 (1S3T, TxBF2)



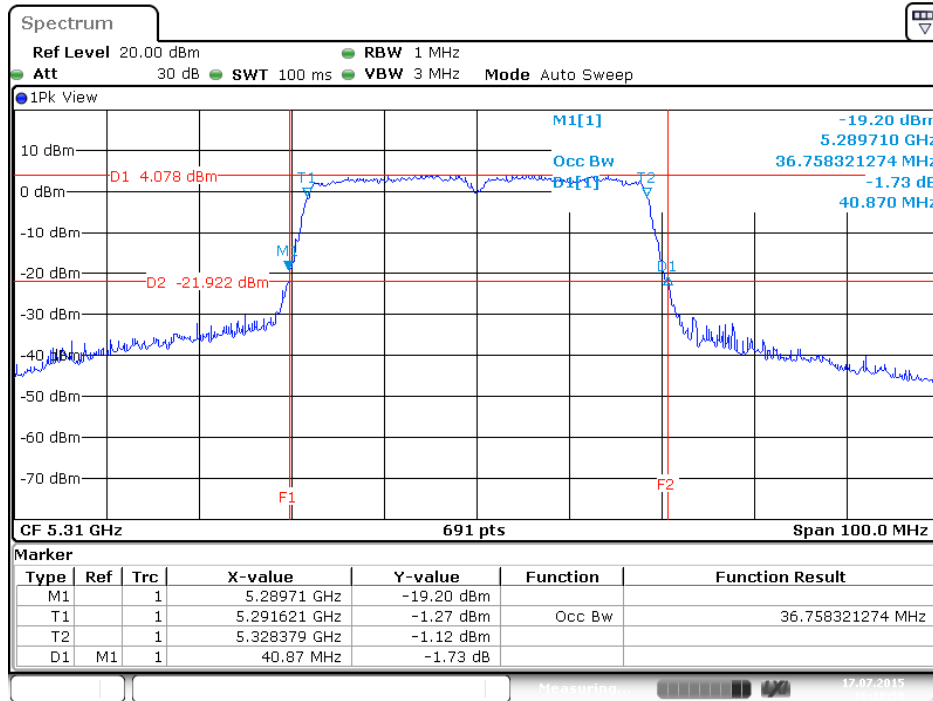
Date: 17 JUL 2015 16:15:24

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1 (1S3T, TxBF2)



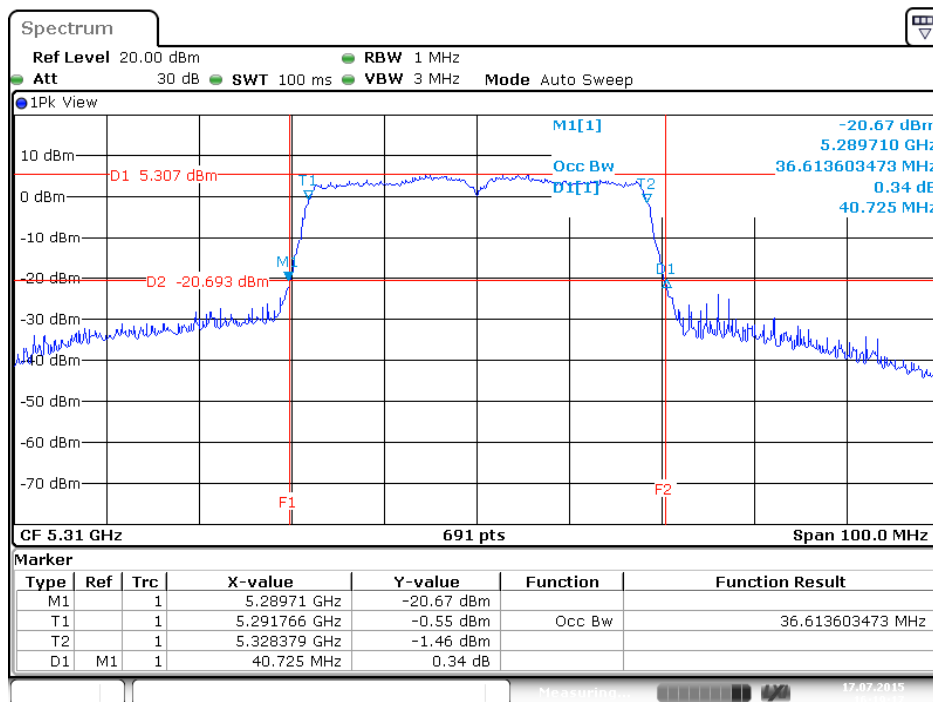
Date: 17 JUL 2015 16:18:13

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 2 (1S3T, TxBF2)



Date: 17 JUL 2015 16:18:50

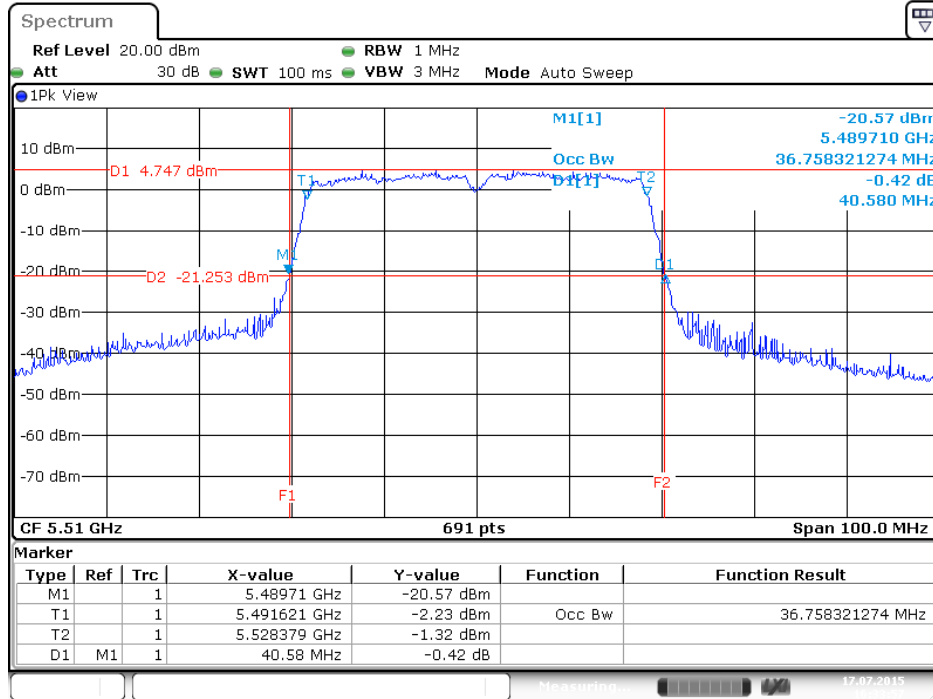
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 3 (1S3T, TxBF2)



Date: 17 JUL 2015 16:19:17

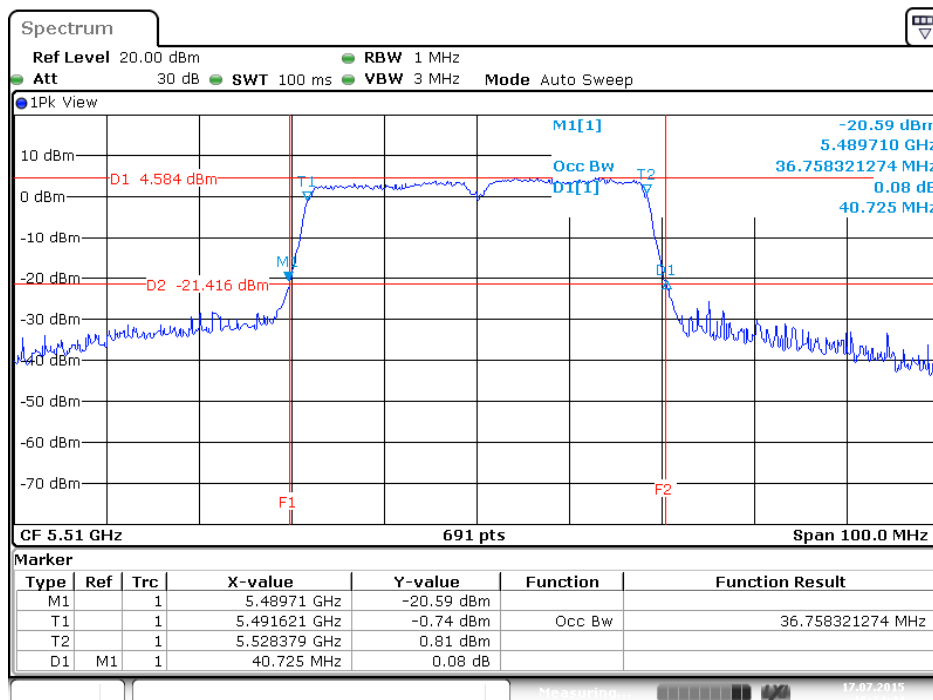


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1 (1S3T, TxBF2)



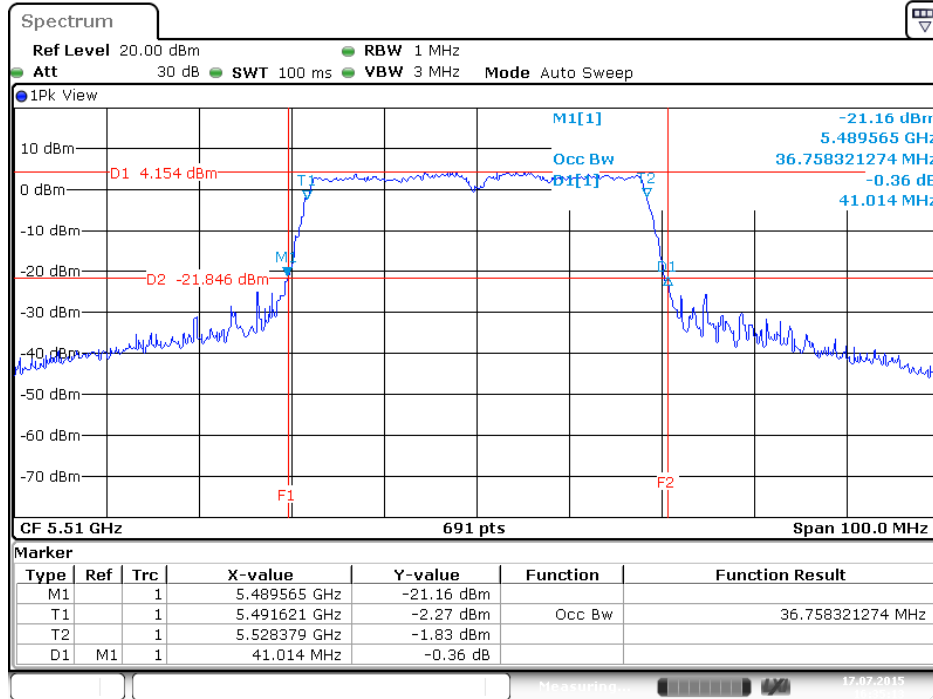
Date: 17 JUL 2015 16:33:57

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 2 (1S3T, TxBF2)



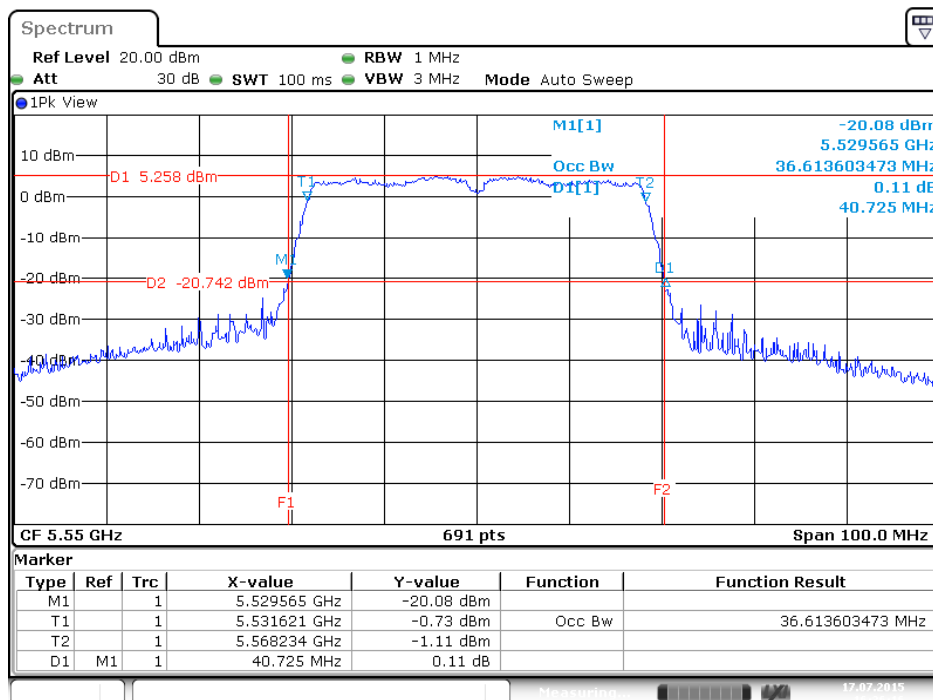
Date: 17 JUL 2015 16:34:44

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 3 (1S3T, TxBF2)



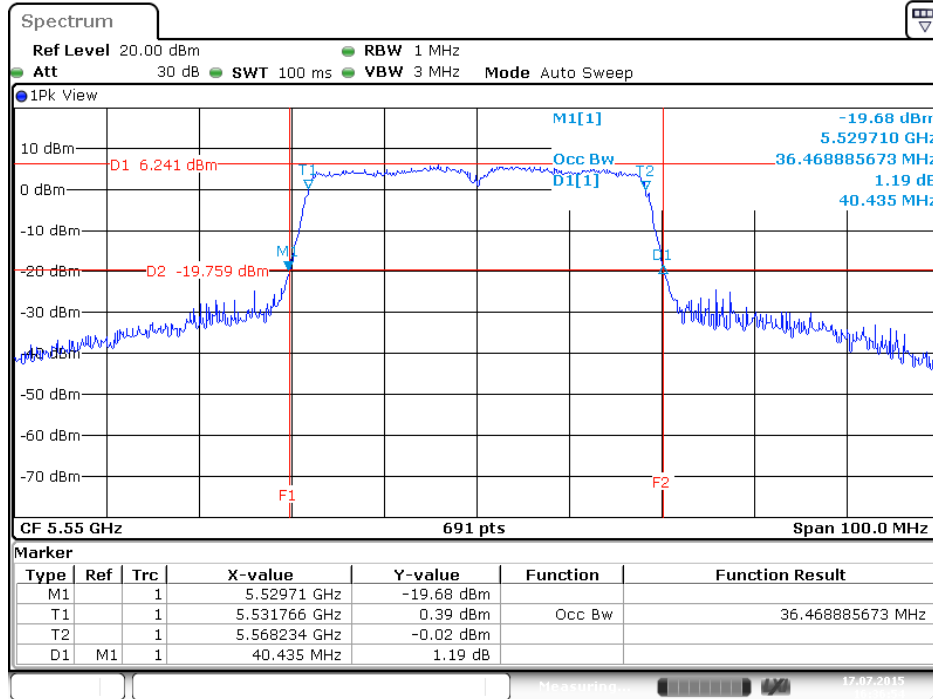
Date: 17 JUL 2015 16:35:14

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1 (1S3T, TxBF2)



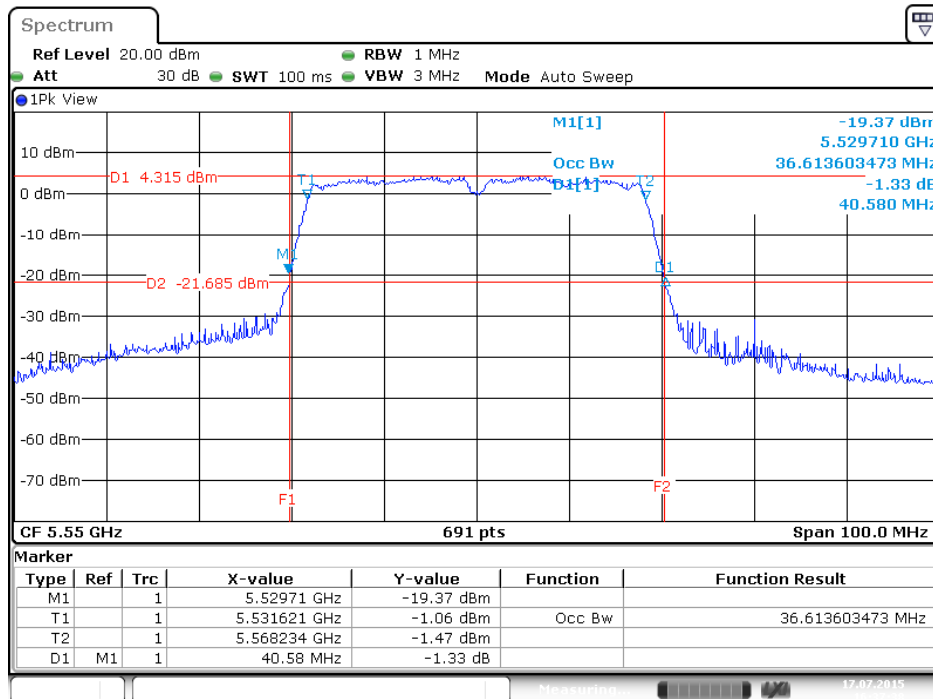
Date: 17 JUL 2015 16:36:17

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 2 (1S3T, TxBF2)



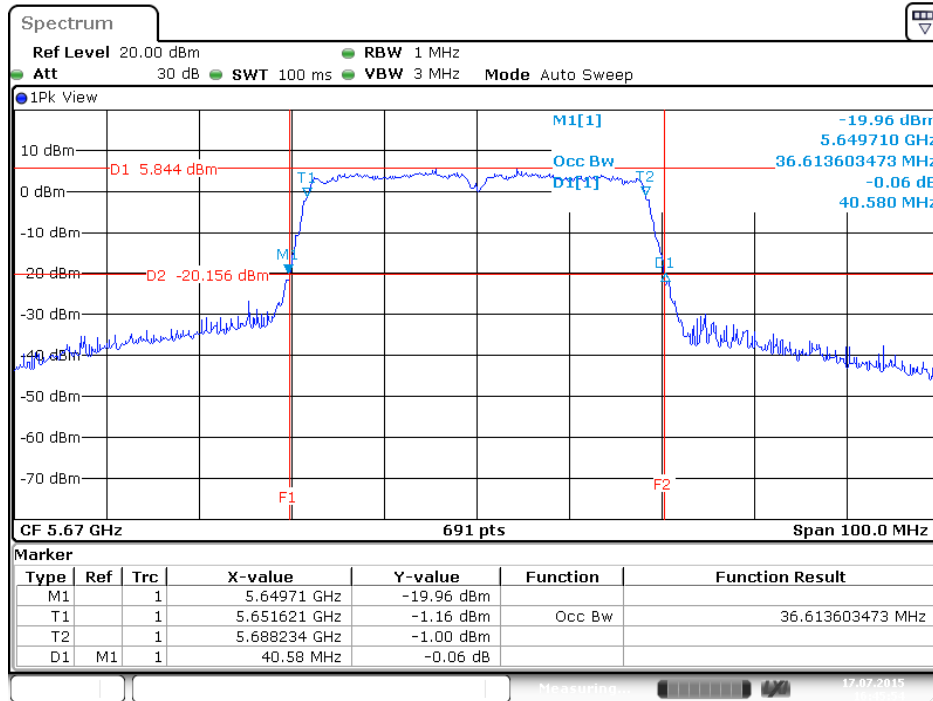
Date: 17 JUL 2015 16:36:54

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 3 (1S3T, TxBF2)



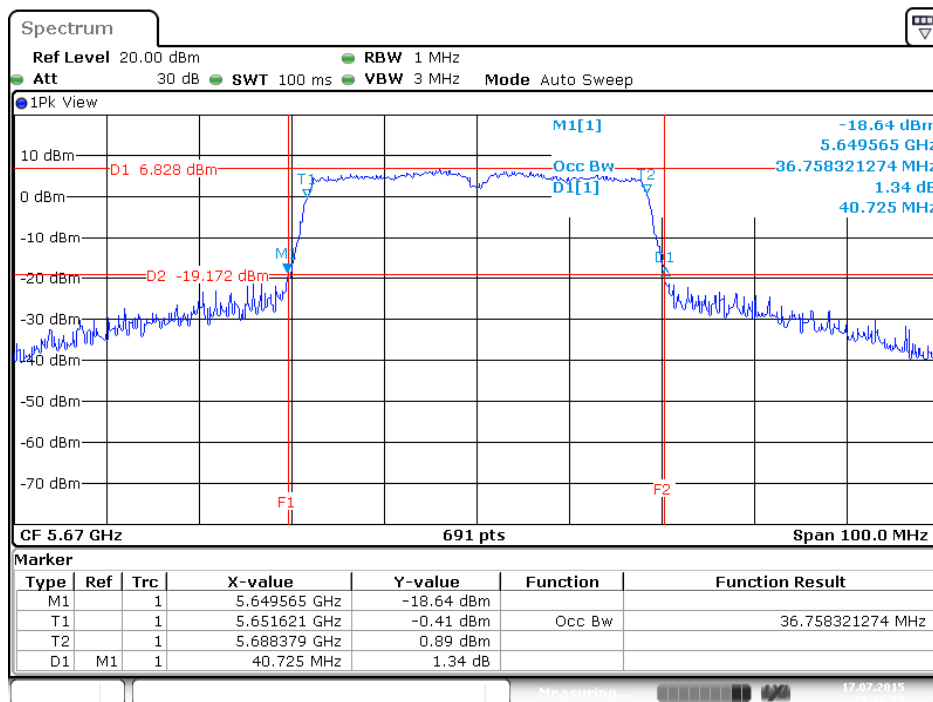
Date: 17 JUL 2015 16:37:39

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1 (1S3T, TxBF2)



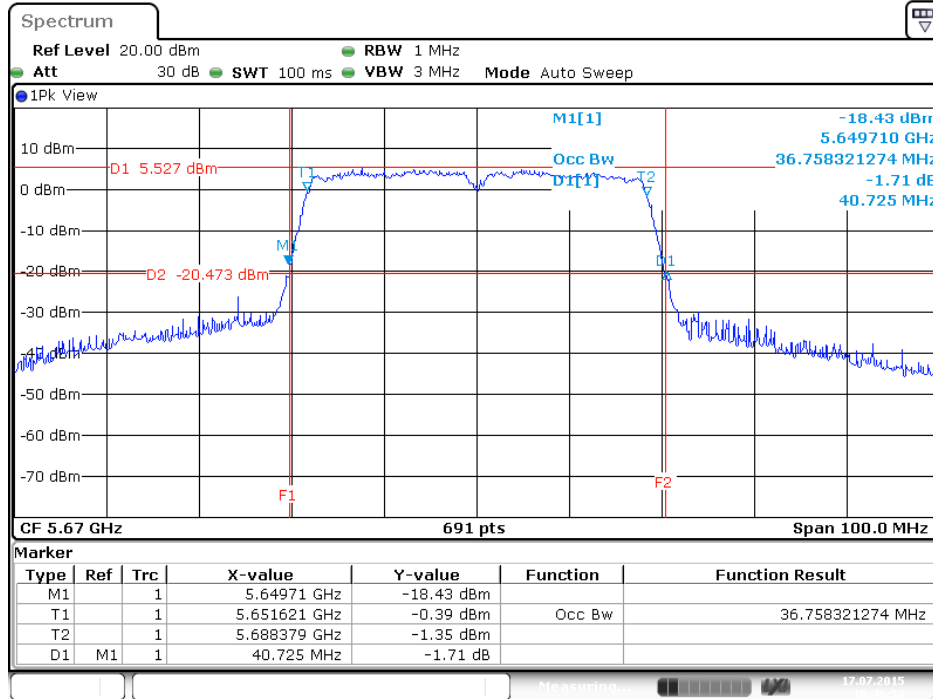
Date: 17 JUL 2015 16:45:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 2 (1S3T, TxBF2)



Date: 17 JUL 2015 16:46:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 3 (1S3T, TxBF2)



Date: 17 JUL 2015 16:46:53

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 80MHz
<b>Duty Cycle</b>	<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>: 82.62%		

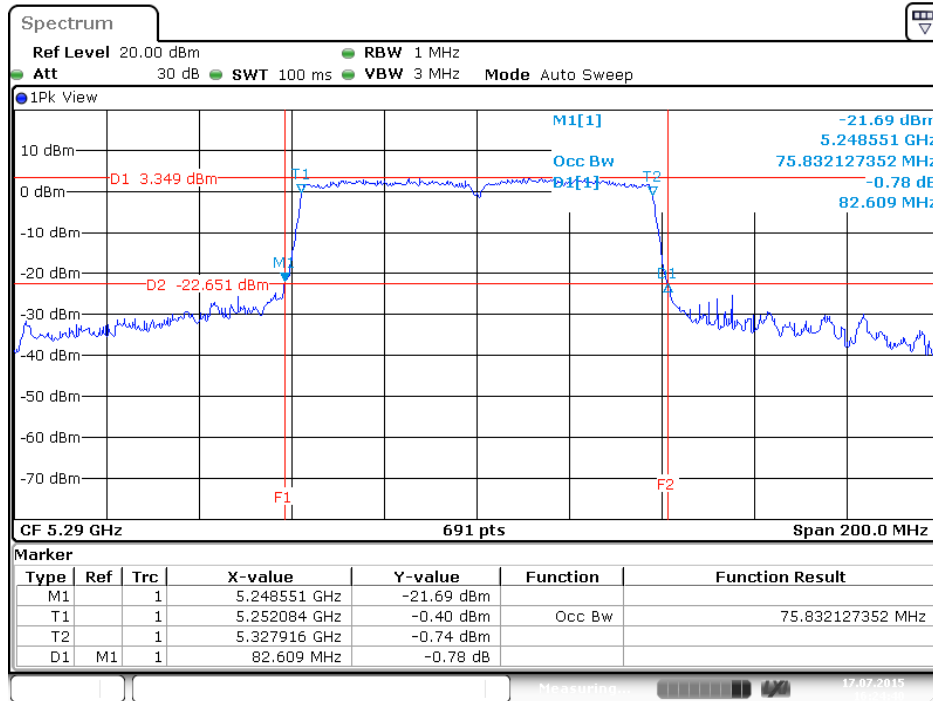
**Configuration IEEE 802.11ac 80MHz**

**<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>**

Channel	Frequency	26dB Bandwidth (MHz)			99% Occupied Bandwidth (MHz)		
		Ant. 1	Ant. 2	Ant. 3	Ant. 1	Ant. 2	Ant. 3
58	5290 MHz	82.60	75.83	82.31	75.83	82.31	75.83
106	5530 MHz	82.60	75.83	81.73	75.83	82.31	75.83

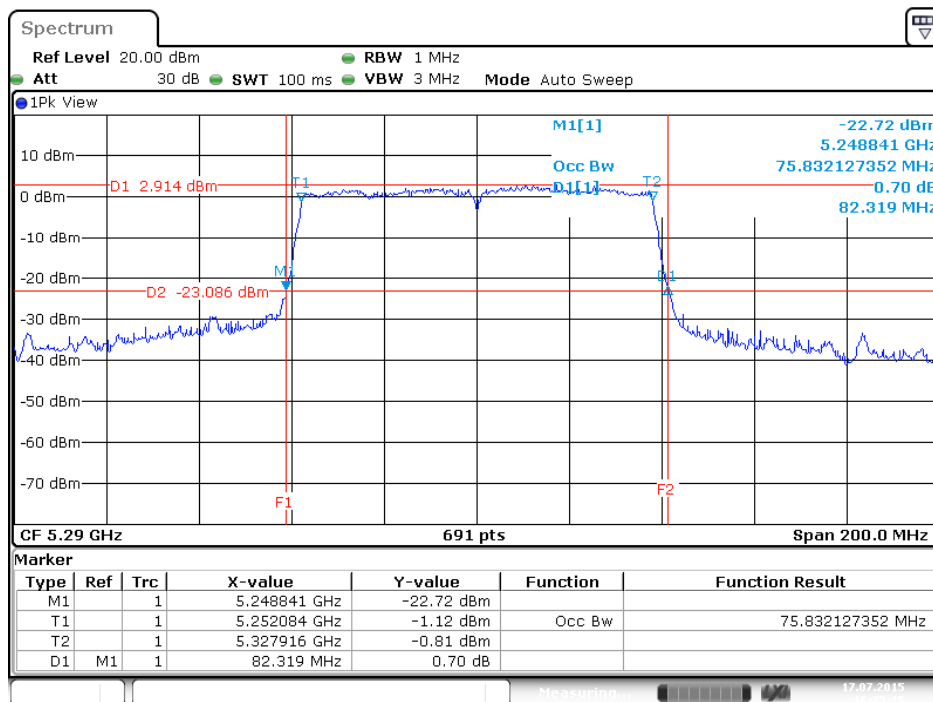
For <Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1 (1S3T, TxBF2)



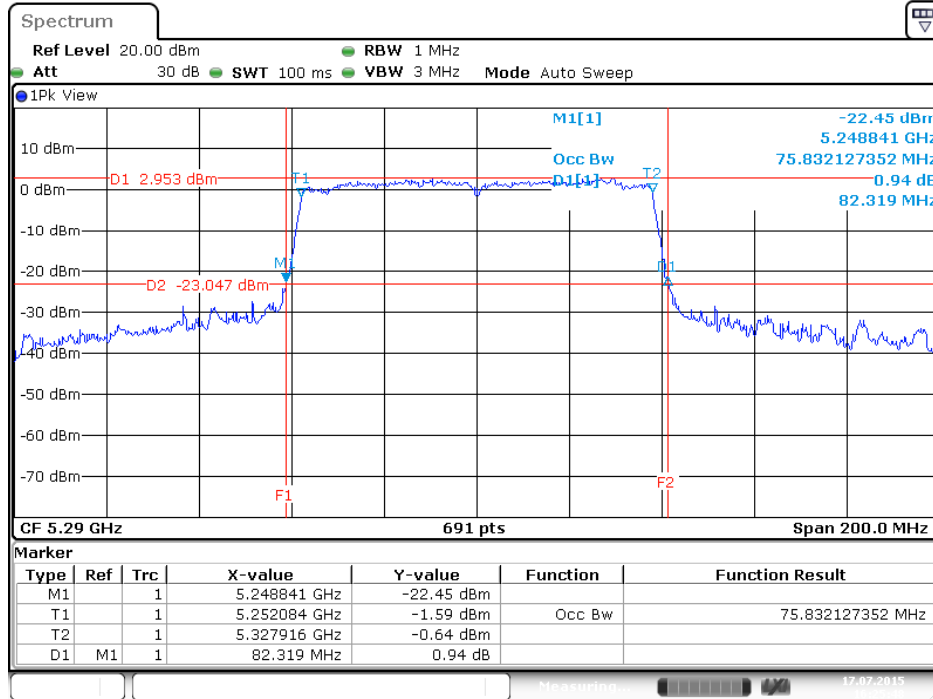
Date: 17 JUL 2015 16:24:40

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 2 (1S3T, TxBF2)



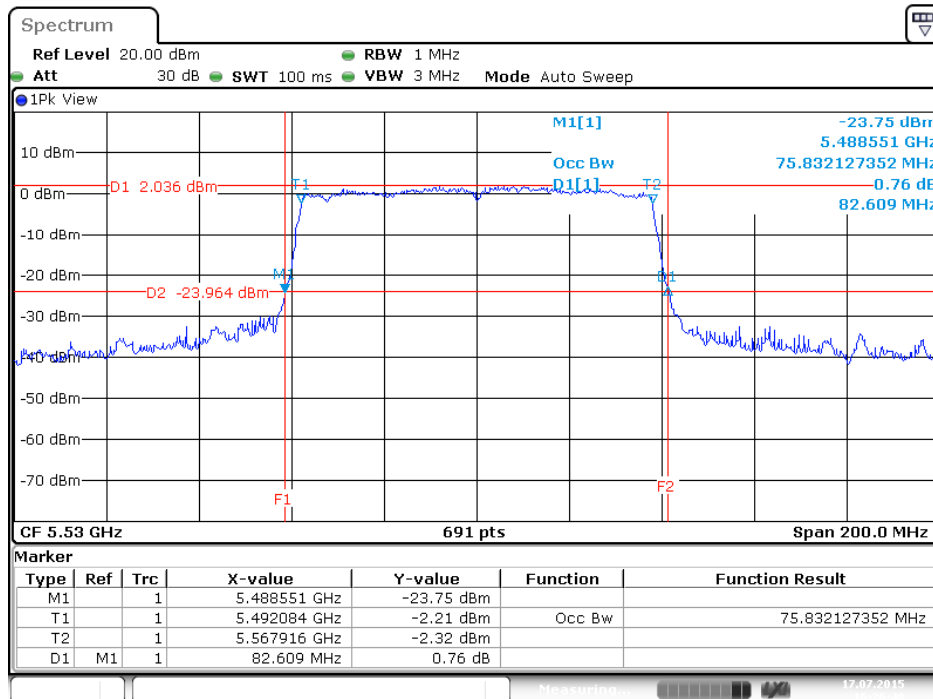
Date: 17 JUL 2015 16:25:15

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 3 (1S3T, TxBF2)



Date: 17 JUL 2015 16:25:48

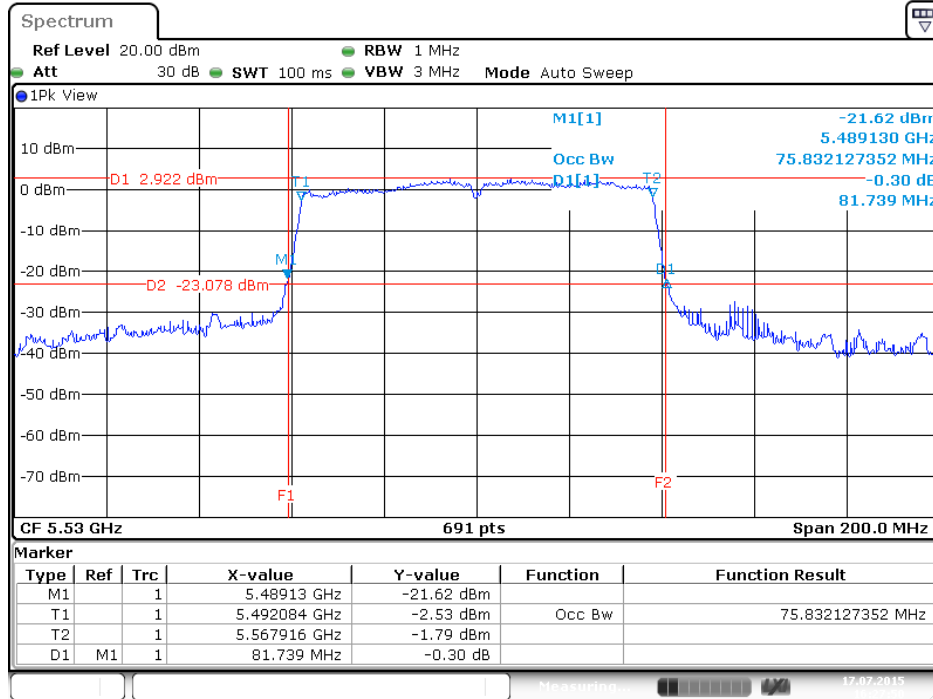
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1 (1S3T, TxBF2)



Date: 17 JUL 2015 16:26:48

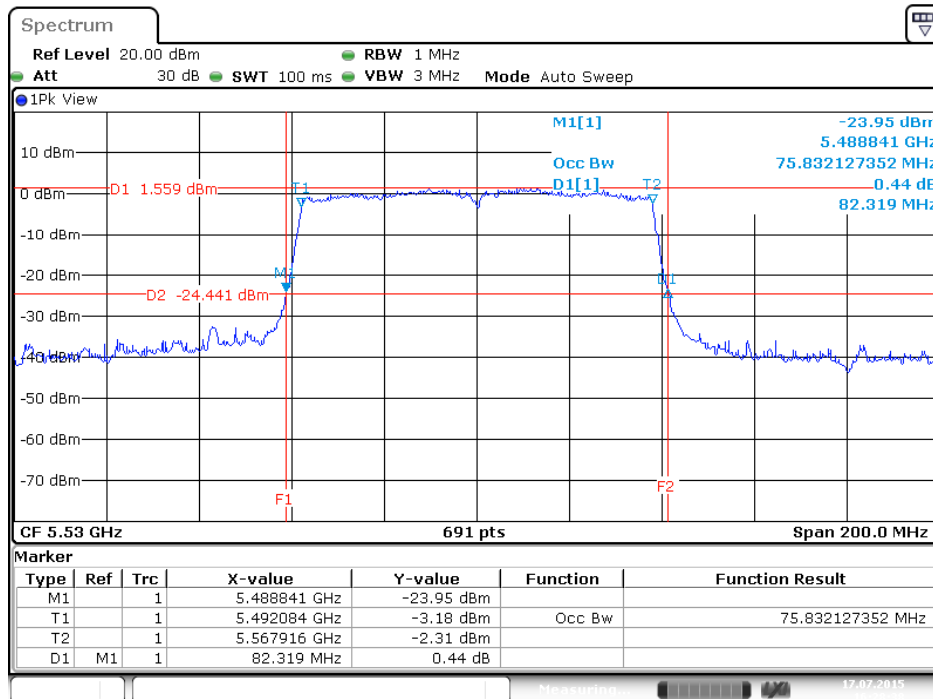


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 2 (1S3T, TxBF2)



Date: 17 JUL 2015 16:27:51

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 3 (1S3T, TxBF2)



Date: 17 JUL 2015 16:28:38

### 3.3 Maximum Conducted Output Power Measurement

#### 3.3.1 Limit

Operation Band	EUT Category		LIMIT
U-NII-2A	v	---	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	v	---	250mW (24 dBm) or 11 dBm+10 log B*

NOTE: Where \*B is the 26-dB emission bandwidth in MHz.

#### 3.3.2 Measuring Instruments and Setting

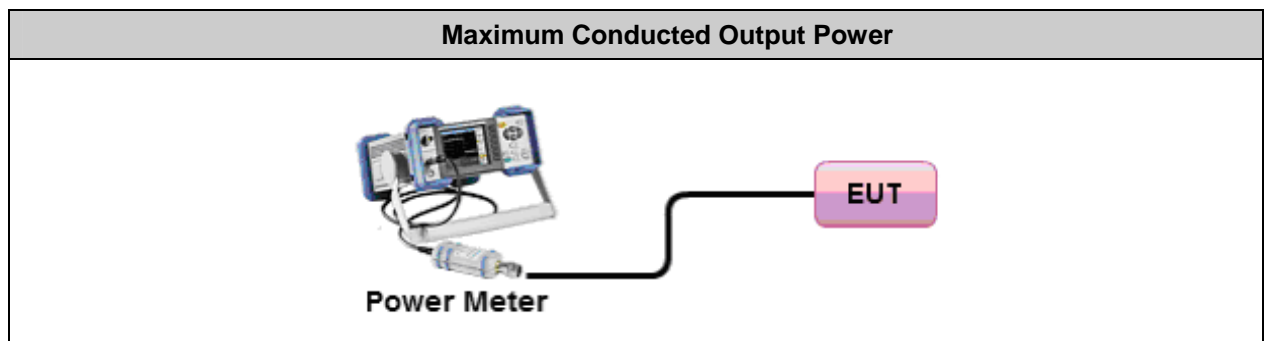
Please refer to section 4 of equipments list in this report. The following table is the setting of Power Meter

Power Meter Parameter	Setting
Filter No.	Auto
Measurement time	0.135 s ~ 26 s
Power Sensor	U2021XA

#### 3.3.3 Test Procedures

1. Test was performed in accordance with Measurement of Digital Transmission Systems Operating under 789033 D02 General UNII Test Procedures New Rules v01, in section “Maximum conducted output power Method (3)”, 06/06/2014
2. The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor to get the all on time transmission. Record the average power level.
3. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.
4. Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle. Record the average power level.

#### 3.3.4 Test Setup Layout



#### 3.3.5 Test Deviation

There is no deviation with the original standard.

#### 3.3.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

**3.3.7 Test Result for Maximum Conducted Output Power**

**For Non-Beamforming**

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11a
<b>Duty Cycle</b>	<6Mbps, Ant. 1 (1S1T)>: 98.84% <6Mbps, Ant. 1+2+3 (1S3T, CDD2)>: 99.04%		

**Configuration IEEE 802.11a**

**<6Mbps, Ant. 1 (1S1T)>**

Channel	Frequency	Conducted Power (dBm)	Antenna Gain	Max. Limit (dBm)	Result
52	5260 MHz	20.86	5.98	24.00	Complies
60	5300 MHz	19.18	6.06	23.94	Complies
64	5320 MHz	18.27	6.00	24.00	Complies
100	5500 MHz	18.05	6.36	23.64	Complies
116	5580 MHz	20.80	6.04	23.96	Complies
140	5700 MHz	19.67	6.46	23.54	Complies

Note:

5260MHz Gain=5.98dBi <6dBi, so the limit doesn't reduce.

5300MHz Gain=6.06dBi >6dBi, so limit =24-(6.06-6)=23.94dBm

5320MHz Gain=6.00dBi <6dBi, so the limit doesn't reduce.

5500MHz Gain=6.36dBi >6dBi, so limit =24-(6.36-6)=23.64dBm

5580MHz Gain=6.04dBi >6dBi, so limit =24-(6.04-6)=23.96dBm

5700MHz Gain=6.46dBi >6dBi, so limit =24-(6.46-6)=23.54dBm

**<6Mbps, Ant. 1+2+3 (1S3T, CDD2)>**

Channel	Frequency	Conducted Power (dBm)				Antenna Gain	Max. Limit (dBm)	Result
		Ant. 1	Ant. 2	Ant. 3	Total			
52	5260 MHz	15.39	16.72	15.68	20.74	6.21	23.79	Complies
60	5300 MHz	15.02	15.62	14.92	19.97	6.22	23.78	Complies
64	5320 MHz	14.33	15.23	14.72	19.55	6.00	24.00	Complies
100	5500 MHz	15.01	15.53	14.96	19.95	6.36	23.64	Complies
116	5580 MHz	15.62	16.70	15.83	20.85	6.04	23.96	Complies
140	5700 MHz	15.03	16.30	15.33	20.36	6.46	23.54	Complies

**Note:**

5260MHz Gain=6.21dBi >6dBi, so limit =24-(6.21-6)=23.79dBm

5300MHz Gain=6.22dBi >6dBi, so limit =24-(6.22-6)=23.78dBm

5320MHz Gain=6.00dBi <6dBi, so the limit doesn't reduce.

5500MHz Gain=6.36dBi >6dBi, so limit =24-(6.36-6)=23.64dBm

5580MHz Gain=6.04dBi >6dBi, so limit =24-(6.04-6)=23.96dBm

5700MHz Gain=6.46dBi >6dBi, so limit =24-(6.46-6)=23.54dBm

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 20MHz
<b>Duty Cycle</b>	<Nss1MCS0, Ant. 1 (1S1T)>: 99.03% <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>: 98.97%		

**Configuration IEEE 802.11ac 20MHz**

**<Nss1MCS0, Ant. 1 (1S1T)>**

Channel	Frequency	Conducted Power (dBm)	Antenna Gain	Max. Limit (dBm)	Result
52	5260 MHz	20.89	5.98	24.00	Complies
60	5300 MHz	18.37	6.06	23.94	Complies
64	5320 MHz	18.07	6.00	24.00	Complies
100	5500 MHz	18.46	6.36	23.64	Complies
116	5580 MHz	20.89	6.04	23.96	Complies
140	5700 MHz	19.60	6.46	23.54	Complies

**Note:**

5260MHz Gain=5.98dBi <6dBi, so the limit doesn't reduce.

5300MHz Gain=6.06dBi >6dBi, so limit =24-(6.06-6)=23.94dBm

5320MHz Gain=6.00dBi <6dBi, so the limit doesn't reduce.

5500MHz Gain=6.36dBi >6dBi, so limit =24-(6.36-6)=23.64dBm

5580MHz Gain=6.04dBi >6dBi, so limit =24-(6.04-6)=23.96dBm

5700MHz Gain=6.46dBi >6dBi, so limit =24-(6.46-6)=23.54dBm

**<Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>**

Channel	Frequency	Conducted Power (dBm)				Antenna Gain	Max. Limit (dBm)	Result
		Ant. 1	Ant. 2	Ant. 3	Total			
52	5260 MHz	15.25	16.71	15.66	20.69	6.21	23.79	Complies
60	5300 MHz	14.23	15.72	14.85	19.75	6.22	23.78	Complies
64	5320 MHz	15.02	16.02	15.08	20.17	6.00	24.00	Complies
100	5500 MHz	14.40	16.02	14.88	19.93	6.36	23.64	Complies
116	5580 MHz	15.39	16.80	15.77	20.80	6.04	23.96	Complies
140	5700 MHz	15.04	16.30	15.22	20.33	6.46	23.54	Complies

**Note:**

5260MHz Gain=6.21dBi >6dBi, so limit =24-(6.21-6)=23.79dBm

5300MHz Gain=6.22dBi >6dBi, so limit =24-(6.22-6)=23.78dBm

5320MHz Gain=6.00dBi <6dBi, so the limit doesn't reduce.

5500MHz Gain=6.36dBi >6dBi, so limit =24-(6.36-6)=23.64dBm

5580MHz Gain=6.04dBi >6dBi, so limit =24-(6.04-6)=23.96dBm

5700MHz Gain=6.46dBi >6dBi, so limit =24-(6.46-6)=23.54dBm

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 40MHz
<b>Duty Cycle</b>	<Nss1MCS0, Ant. 1 (1S1T)>: 97.25% <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>: 97.53%		

**Configuration IEEE 802.11ac 40MHz**

**<Nss1MCS0, Ant. 1 (1S1T)>**

Channel	Frequency	Conducted Power (dBm)	Antenna Gain	Max. Limit (dBm)	Result
54	5270 MHz	18.70	5.91	24.00	Complies
62	5310 MHz	17.89	6.06	23.94	Complies
102	5510 MHz	19.07	6.29	23.71	Complies
110	5550 MHz	21.07	5.91	24.00	Complies
134	5670 MHz	18.99	5.95	24.00	Complies

Note:

5270MHz Gain=5.91dBi <6dBi, so the limit doesn't reduce.

5310MHz Gain=6.06dBi >6dBi, so limit =24-(6.06-6)=23.94dBm

5510MHz Gain=6.29dBi >6dBi, so limit =24-(6.29-6)=23.71dBm

5550MHz Gain=5.91dBi <6dBi, so the limit doesn't reduce.

5670MHz Gain=5.95dBi <6dBi, so the limit doesn't reduce.

**<Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>**

Channel	Frequency	Conducted Power (dBm)				Antenna Gain	Max. Limit (dBm)	Result
		Ant. 1	Ant. 2	Ant. 3	Total			
54	5270 MHz	15.24	17.03	15.77	20.85	6.10	23.90	Complies
62	5310 MHz	15.27	16.91	15.63	20.77	6.22	23.78	Complies
102	5510 MHz	15.11	16.81	15.69	20.70	6.29	23.71	Complies
110	5550 MHz	15.33	16.98	16.05	20.94	5.91	24.00	Complies
134	5670 MHz	15.42	16.93	16.03	20.94	5.95	24.00	Complies

Note:

5270MHz Gain=6.10dBi >6dBi, so limit =24-(6.10-6)=23.90dBm

5310MHz Gain=6.22dBi >6dBi, so limit =24-(6.22-6)=23.78dBm

5510MHz Gain=6.29dBi >6dBi, so limit =24-(6.29-6)=23.71dBm

5550MHz Gain=5.91dBi <6dBi, so the limit doesn't reduce.

5670MHz Gain=5.95dBi <6dBi, so the limit doesn't reduce.



<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 80MHz
<b>Duty Cycle</b>	< Nss1MCS0, Ant. 1 (1S1T)>: 95.75% <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>: 94.26%		

**Configuration IEEE 802.11ac 80MHz**

**<Nss1MCS0, Ant. 1 (1S1T)>**

Channel	Frequency	Conducted Power (dBm)	Antenna Gain	Max. Limit (dBm)	Result
58	5290 MHz	17.32	5.93	24.00	Complies
106	5530 MHz	16.53	5.88	24.00	Complies

Note:

5290MHz Gain=5.93dBi <6dBi, so the limit doesn't reduce.

5530MHz Gain=5.88dBi <6dBi, so the limit doesn't reduce.

**<Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>**

Channel	Frequency	Conducted Power (dBm)				Antenna Gain	Max. Limit (dBm)	Result
		Ant. 1	Ant. 2	Ant. 3	Total			
58	5290 MHz	14.55	15.68	14.50	19.72	5.93	24.00	Complies
106	5530 MHz	14.32	15.55	14.64	19.64	5.88	24.00	Complies

Note:

5290MHz Gain=5.93dBi <6dBi, so the limit doesn't reduce.

5530MHz Gain=5.88dBi <6dBi, so the limit doesn't reduce.

**For Beamforming**

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 20MHz
<b>Duty Cycle</b>	<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>: 95.59%		

**Configuration IEEE 802.11ac 20MHz**

**<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>**

Channel	Frequency	Conducted Power (dBm)				Directional Gain	Max. Limit (dBm)	Result
		Ant. 1	Ant. 2	Ant. 3	Total			
52	5260 MHz	13.99	15.51	14.44	19.47	7.35	22.65	Complies
60	5300 MHz	12.33	14.02	13.35	18.06	7.61	22.39	Complies
64	5320 MHz	11.49	13.00	12.62	17.19	7.52	22.48	Complies
100	5500 MHz	11.79	12.98	11.44	16.89	7.60	22.40	Complies
116	5580 MHz	14.08	15.49	14.38	19.46	7.52	22.48	Complies
140	5700 MHz	14.01	15.47	14.40	19.44	7.54	22.46	Complies

Note:

$$5260 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.35 \text{ dBi} > 6 \text{ dBi, so Limit} = 24 - (7.35 - 6) = 22.65 \text{ dBm.}$$

$$5300 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.61 \text{ dBi} > 6 \text{ dBi, so Limit} = 24 - (7.61 - 6) = 22.39 \text{ dBm.}$$

$$5320 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.52 \text{ dBi} > 6 \text{ dBi, so Limit} = 24 - (7.52 - 6) = 22.48 \text{ dBm.}$$

$$5500 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.60 \text{ dBi} > 6 \text{ dBi, so Limit} = 24 - (7.60 - 6) = 22.40 \text{ dBm.}$$

$$5580 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.52 \text{ dBi} > 6 \text{ dBi, so Limit} = 24 - (7.52 - 6) = 22.48 \text{ dBm.}$$

$$5700 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.54 \text{ dBi} > 6 \text{ dBi, so Limit} = 24 - (7.54 - 6) = 22.46 \text{ dBm.}$$

Test date	Jul. 17, 2015	Test Site No.	TH01-CB
Temperature	20°C	Humidity	60%
Test Engineer	Clemens Fang	Configuration	802.11ac 40MHz
Duty Cycle	<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>: 90.82%		

Configuration IEEE 802.11ac 40MHz

<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>

Channel	Frequency	Conducted Power (dBm)				Directional Gain	Max. Limit (dBm)	Result
		Ant. 1	Ant. 2	Ant. 3	Total			
54	5270 MHz	14.20	15.51	14.58	19.57	7.24	22.76	Complies
62	5310 MHz	13.95	15.20	14.51	19.35	7.61	22.39	Complies
102	5510 MHz	13.95	15.11	14.27	19.24	7.73	22.27	Complies
110	5550 MHz	14.22	15.41	14.52	19.52	7.42	22.58	Complies
134	5670 MHz	14.40	15.62	14.94	19.79	7.01	22.99	Complies

Note:

5270 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{MVF}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.24\text{dBi} > 6\text{dBi}, \text{ so Limit} = 24 - (7.24 - 6) = 22.76\text{dBm}.$$

5310 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{MVF}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.61\text{dBi} > 6\text{dBi}, \text{ so Limit} = 24 - (7.61 - 6) = 22.39\text{dBm}.$$

5510 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{MVF}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.73\text{dBi} > 6\text{dBi}, \text{ so Limit} = 24 - (7.73 - 6) = 22.27\text{dBm}.$$

5550 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{MVF}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.42\text{dBi} > 6\text{dBi}, \text{ so Limit} = 24 - (7.42 - 6) = 22.58\text{dBm}.$$

5670 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{MVF}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01\text{dBi} > 6\text{dBi}, \text{ so Limit} = 24 - (7.01 - 6) = 22.99\text{dBm}.$$

Test date	Jul. 17, 2015	Test Site No.	TH01-CB
Temperature	20°C	Humidity	60%
Test Engineer	Clemens Fang	Configuration	802.11ac 80MHz
Duty Cycle	<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>: 82.62%		

Configuration IEEE 802.11ac 80MHz

<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>

Channel	Frequency	Conducted Power (dBm)				Directional Gain	Max. Limit (dBm)	Result
		Ant. 1	Ant. 2	Ant. 3	Total			
58	5290 MHz	14.55	15.68	14.50	19.72	7.22	22.78	Complies
106	5530 MHz	14.12	15.35	14.42	19.43	7.46	22.54	Complies

Note:

5290 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{CS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.22\text{dBi} > 6\text{dBi}, \text{ so Limit} = 24 - (7.22 - 6) = 22.78\text{dBm}.$$

5530 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{CS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.46\text{dBi} > 6\text{dBi}, \text{ so Limit} = 24 - (7.46 - 6) = 22.54\text{dBm}.$$

**3.4 Power Spectral Density Measurement**

**3.4.1 Limit**

Operation Band	EUT Category		LIMIT
U-NII-2A	v	---	11dBm/ MHz
U-NII-2C	v	---	11dBm/ MHz

**3.4.2 Measuring Instruments and Setting**

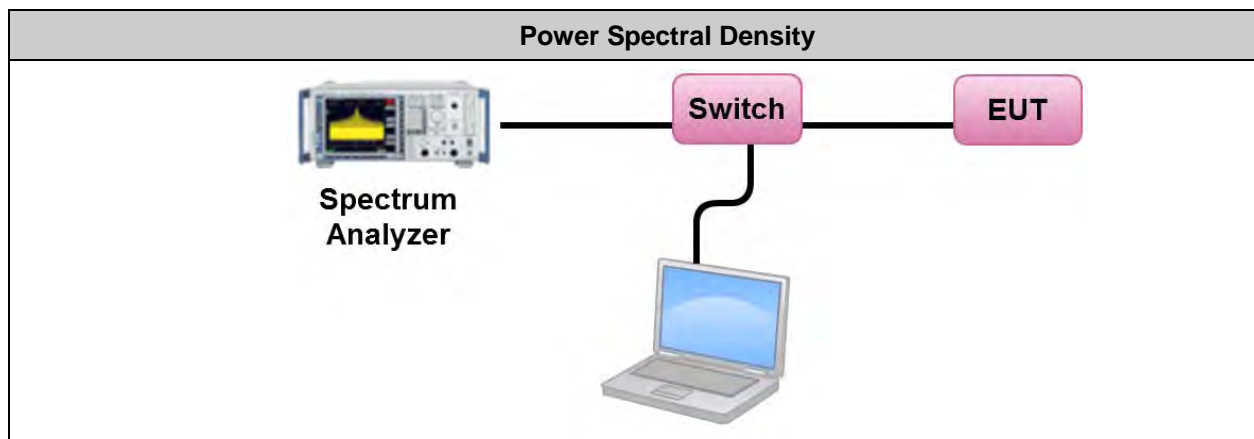
Please refer to section 4 of equipments list in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz
VBW	≥ 3 MHz
Detector	RMS
Trace	Average
Sweep Time	Auto, trigger set to “free run”
Trace Average	100 times

**3.4.3 Test Procedures**

1. The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.
2. For U-NII-1, U-NII-2A & U-NII-2C Bands, PSD Measure was performed in accordance with 789033 D02 General UNII Test Procedures New Rules v01, in section “Maximum conducted output power (E)(2)(d) Method SA-2”, 06/06/2014
3. For U-NII-3 Band, PSD Measure was performed in accordance with 789033 D02 General UNII Test Procedures New Rules v01, in section “Maximum Power Spectral Density (F)(5)” , 06/06/2014
4. Multiple antenna systems was performed in accordance 662911 D01 Multiple Transmitter Output v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs (bin-by-bin summing).
5. When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first
6. Frequency bin of the summed spectrum. The summed spectrum value for each of the other frequency bins is computed in the same way.

**3.4.4 Test Setup Layout**



**3.4.5 Test Deviation**

There is no deviation with the original standard.

**3.4.6 EUT Operation during Test**

The EUT was programmed to be in continuously transmitting mode.

**3.4.7 Test Result of Power Spectral Density**

**For Non-Beamforming**

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11a
<b>Duty Cycle</b>	<6Mbps, Ant. 1 (1S1T)>: 98.84% <6Mbps, Ant. 1+2+3 (1S3T, CDD2)>: 99.04%		

**Configuration IEEE 802.11a**

**<6Mbps, Ant. 1 (1S1T)>**

Channel	Frequency	Power Density (dBm/MHz)	Antenna Gain	Max. Limit (dBm/MHz)	Result
52	5260 MHz	7.35	5.98	11.00	Complies
60	5300 MHz	5.56	6.06	10.94	Complies
64	5320 MHz	4.84	6.00	11.00	Complies
100	5500 MHz	4.75	6.36	10.64	Complies
116	5580 MHz	7.37	6.04	10.96	Complies
140	5700 MHz	6.04	6.46	10.54	Complies

Note:

5260MHz Gain=5.98dBi <6dBi, so the limit doesn't reduce.

5300MHz Gain=6.06dBi >6dBi, so limit =11-(6.06-6)=10.94dBm/MHz.

5320MHz Gain=6.00dBi <6dBi, so the limit doesn't reduce.

5500MHz Gain=6.36dBi >6dBi, so limit =11-(6.36-6)=10.64dBm/MHz.

5580MHz Gain=6.04dBi >6dBi, so limit =11-(6.04-6)=10.96dBm/MHz.

5700MHz Gain=6.46dBi >6dBi, so limit =11-(6.46-6)=10.54dBm/MHz.

<6Mbps, Ant. 1+2+3 (1S3T, CDD2)>

Channel	Frequency	Power Density (dBm/MHz)	Directional Gain	Max. Limit (dBm/MHz)	Result
52	5260 MHz	7.35	7.35	9.65	Complies
60	5300 MHz	6.24	7.61	9.39	Complies
64	5320 MHz	6.32	7.52	9.48	Complies
100	5500 MHz	6.71	7.60	9.40	Complies
116	5580 MHz	7.67	7.52	9.48	Complies
140	5700 MHz	6.99	7.54	9.46	Complies

Note:

$$5260 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.35 \text{ dBi} > 6 \text{ dBi, so Limit} = 11 - (7.35 - 6) = 9.65 \text{ dBm/MHz.}$$

$$5300 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.61 \text{ dBi} > 6 \text{ dBi, so Limit} = 11 - (7.61 - 6) = 9.39 \text{ dBm/MHz.}$$

$$5320 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.52 \text{ dBi} > 6 \text{ dBi, so Limit} = 11 - (7.52 - 6) = 9.48 \text{ dBm/MHz.}$$

$$5500 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.60 \text{ dBi} > 6 \text{ dBi, so Limit} = 11 - (7.60 - 6) = 9.40 \text{ dBm/MHz.}$$

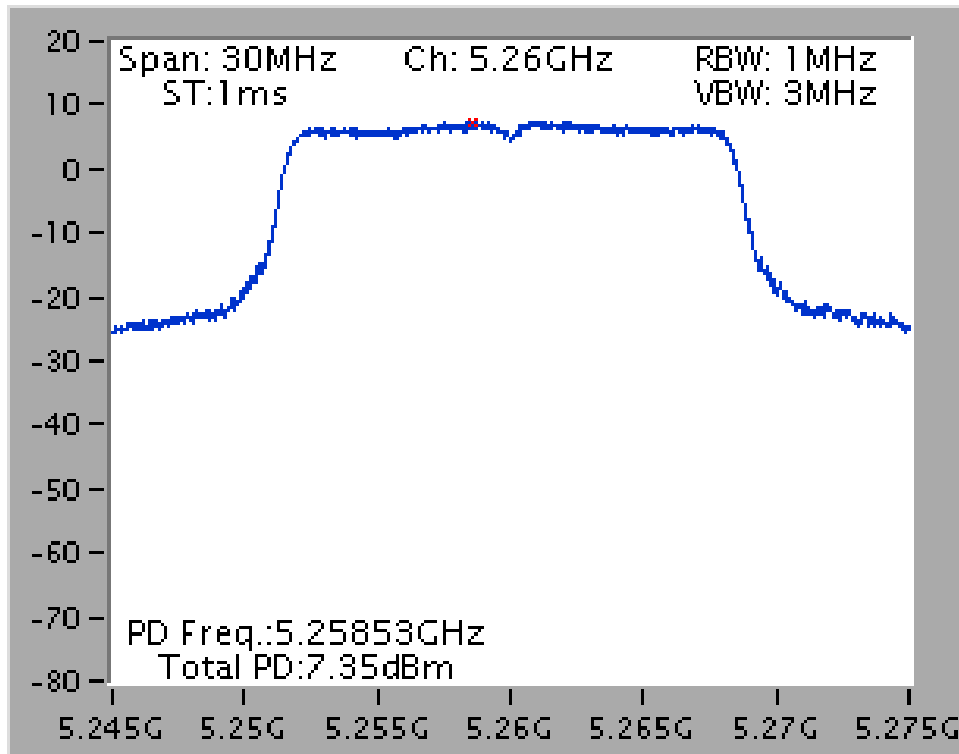
$$5580 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.52 \text{ dBi} > 6 \text{ dBi, so Limit} = 11 - (7.52 - 6) = 9.48 \text{ dBm/MHz.}$$

$$5700 \text{ MHz} = \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.54 \text{ dBi} > 6 \text{ dBi, so Limit} = 11 - (7.54 - 6) = 9.46 \text{ dBm/MHz.}$$

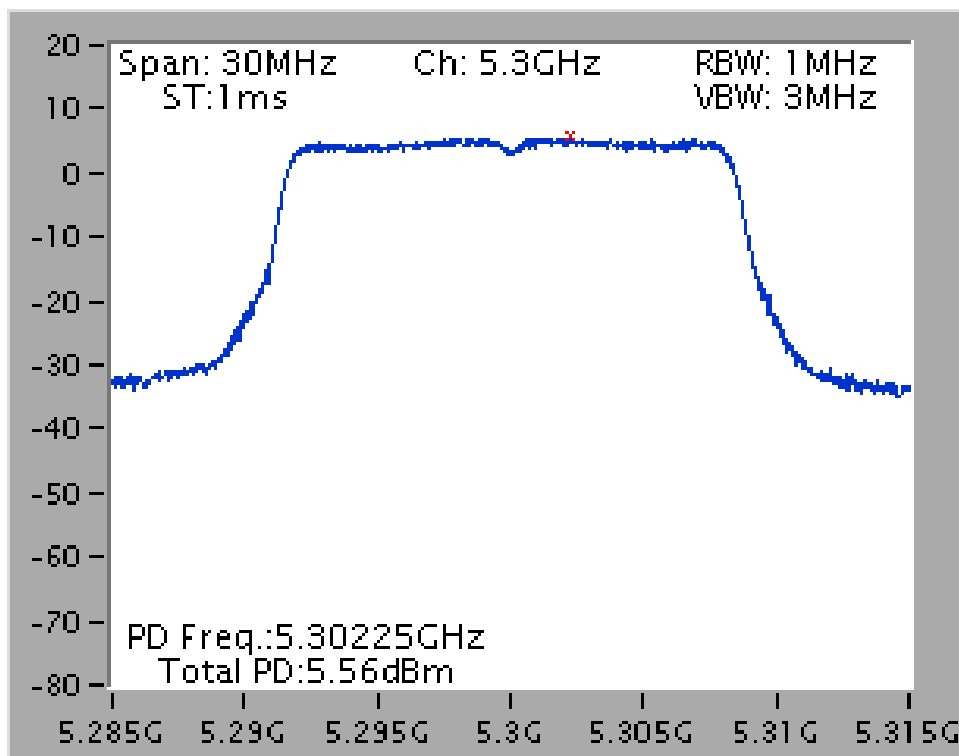


For <6Mbps, Ant. 1 (1S1T)>:

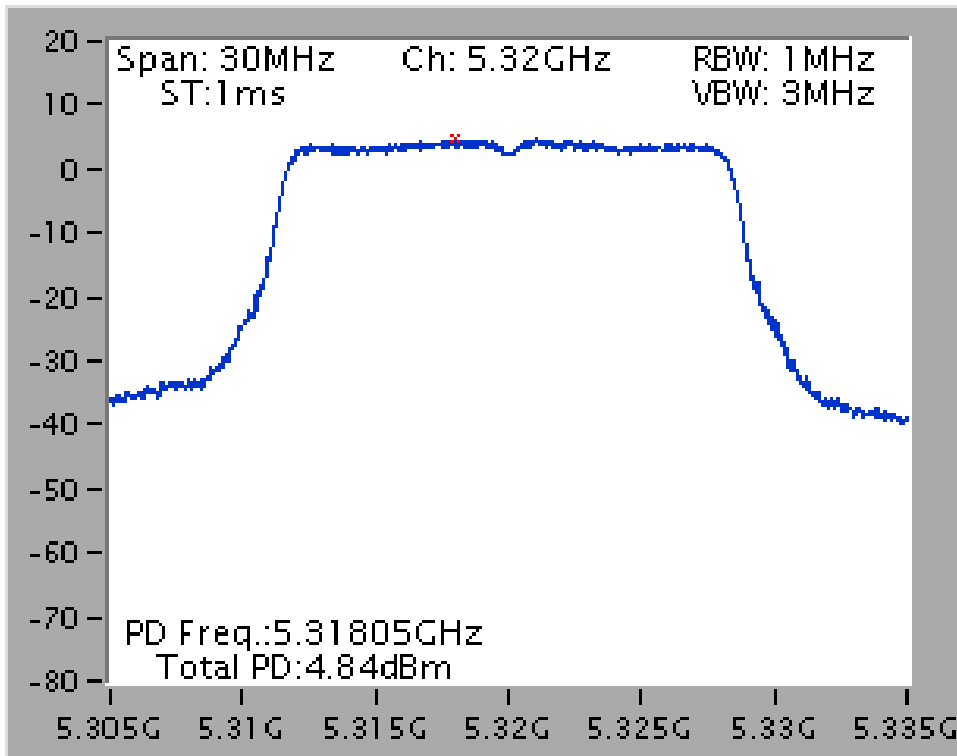
Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 52 / Ant. 1 (1S1T)



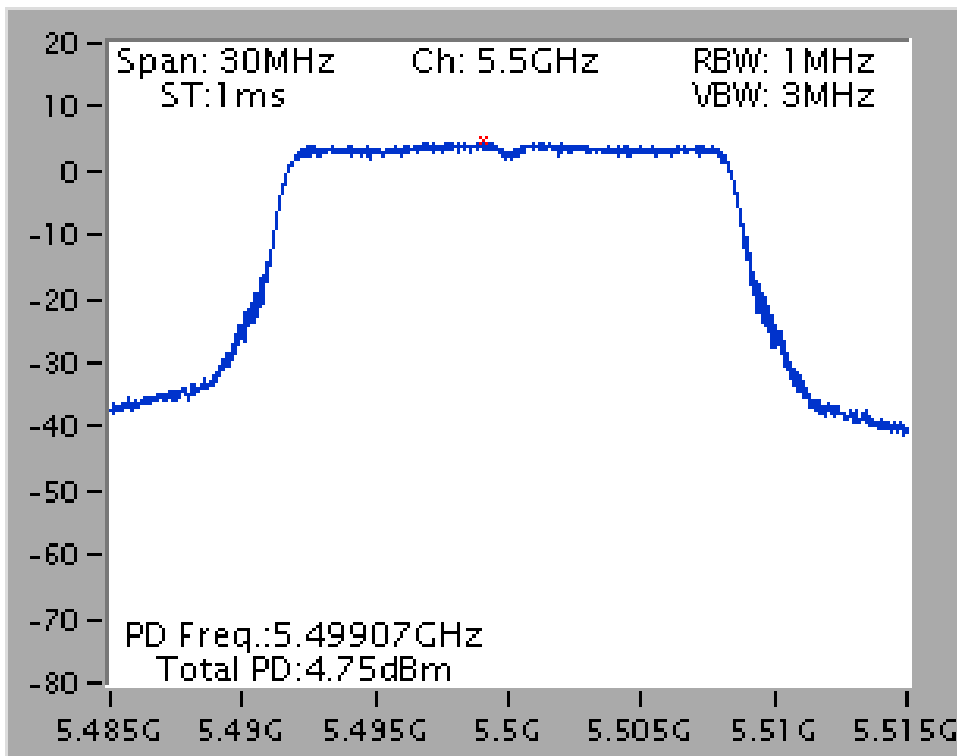
Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 60 / Ant. 1 (1S1T)



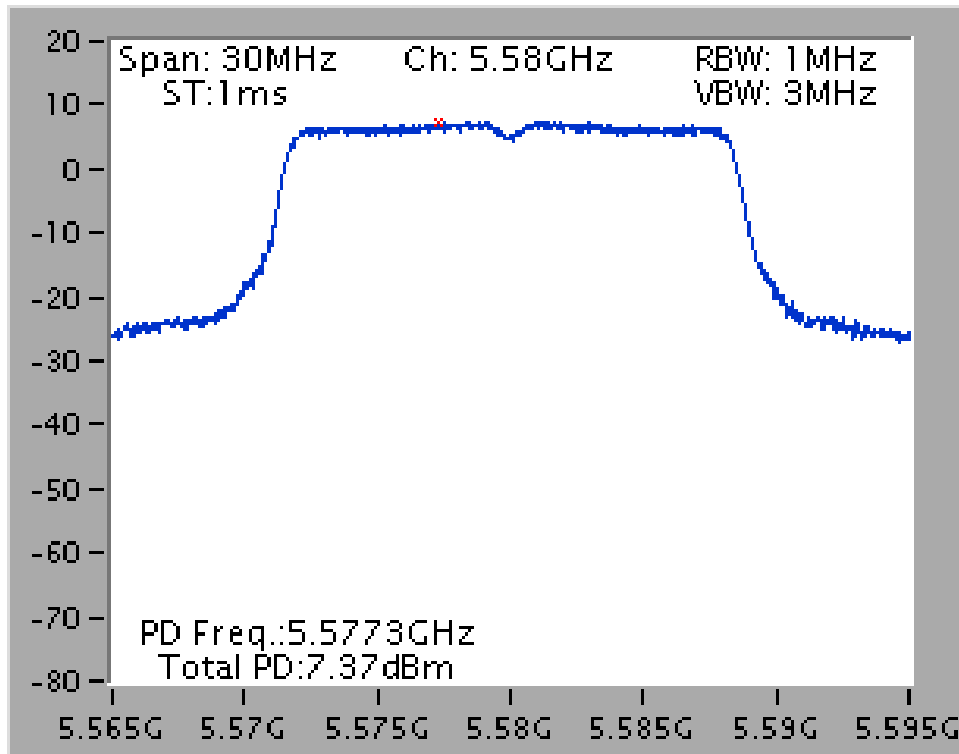
Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 64 / Ant. 1 (1S1T)



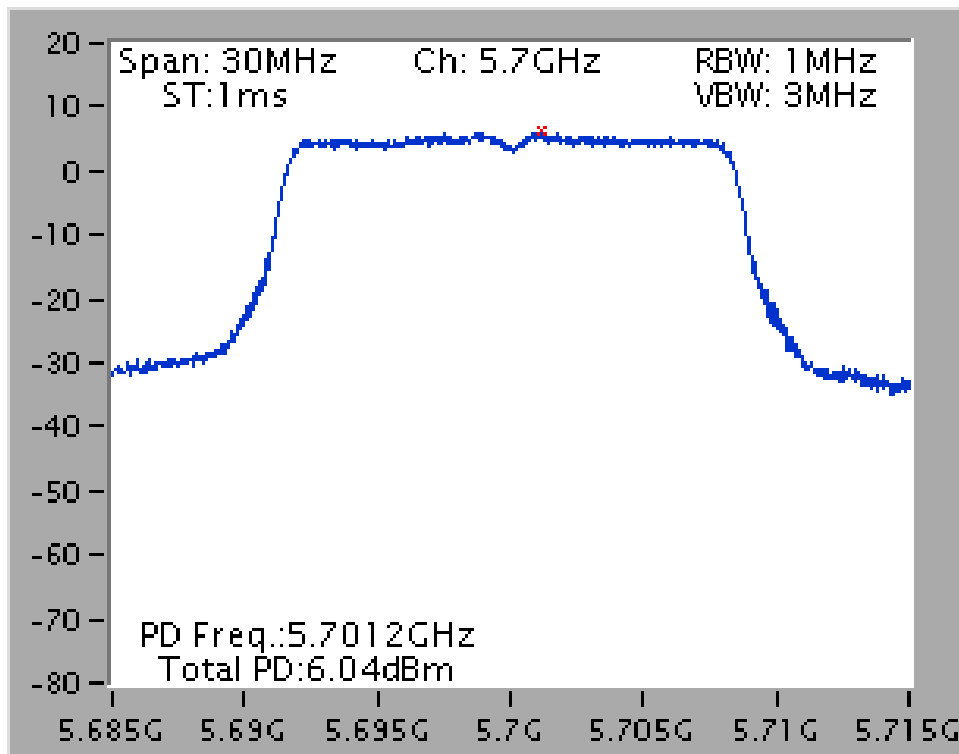
Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 100 / Ant. 1 (1S1T)



Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 116 / Ant. 1 (1S1T)

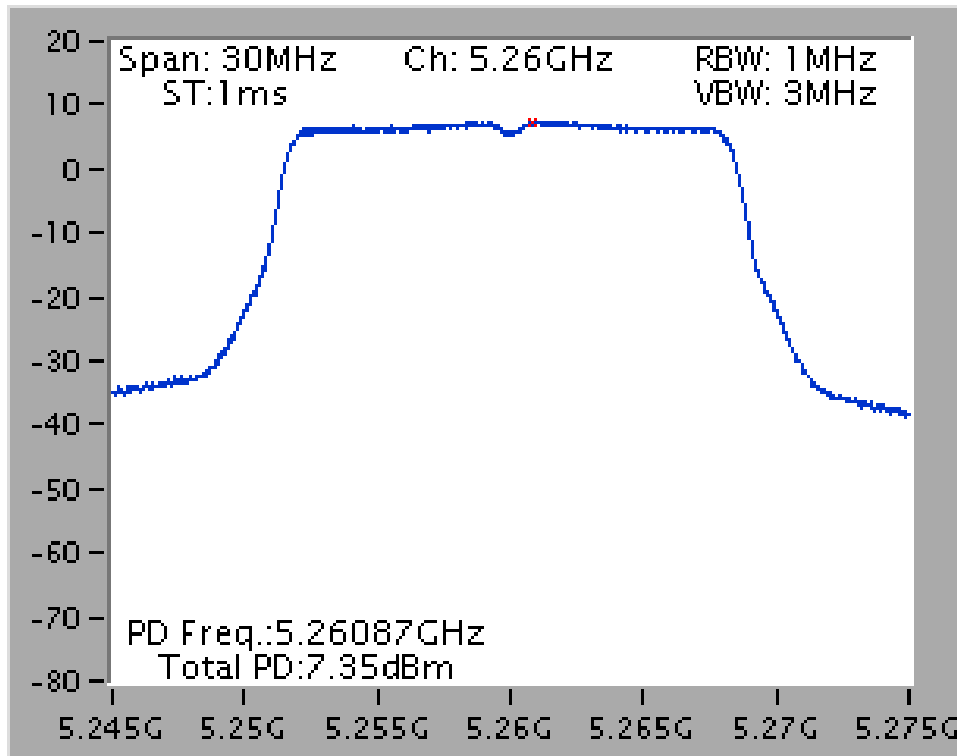


Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 140 / Ant. 1 (1S1T)

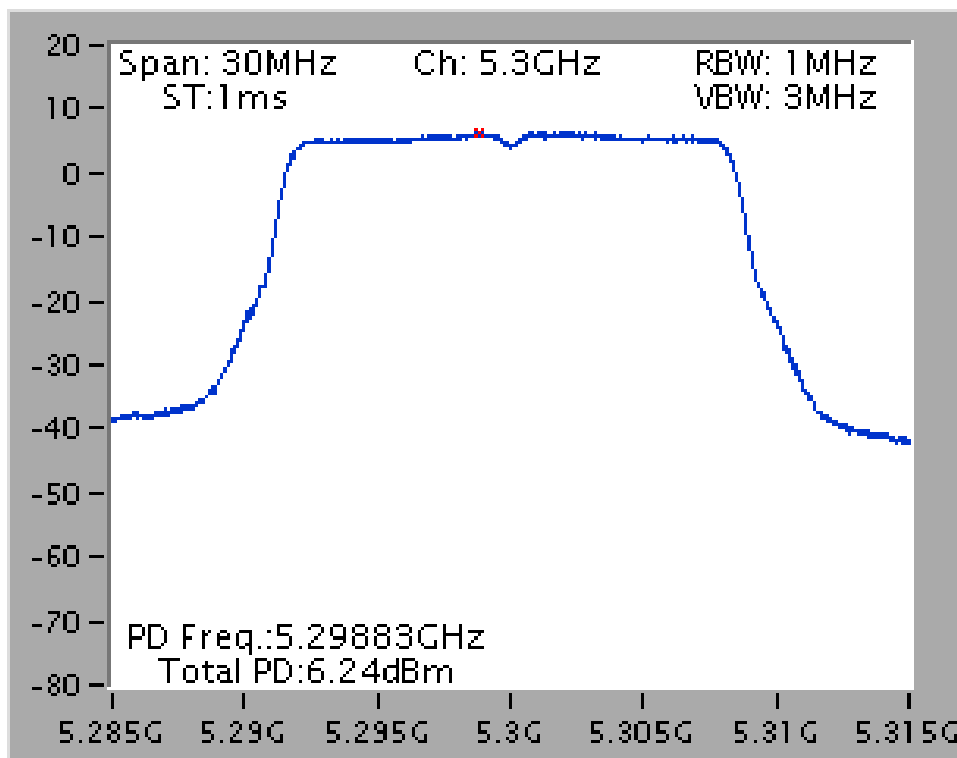


For <6Mbps, Ant. 1+2+3 (1S3T, CDD2)>:

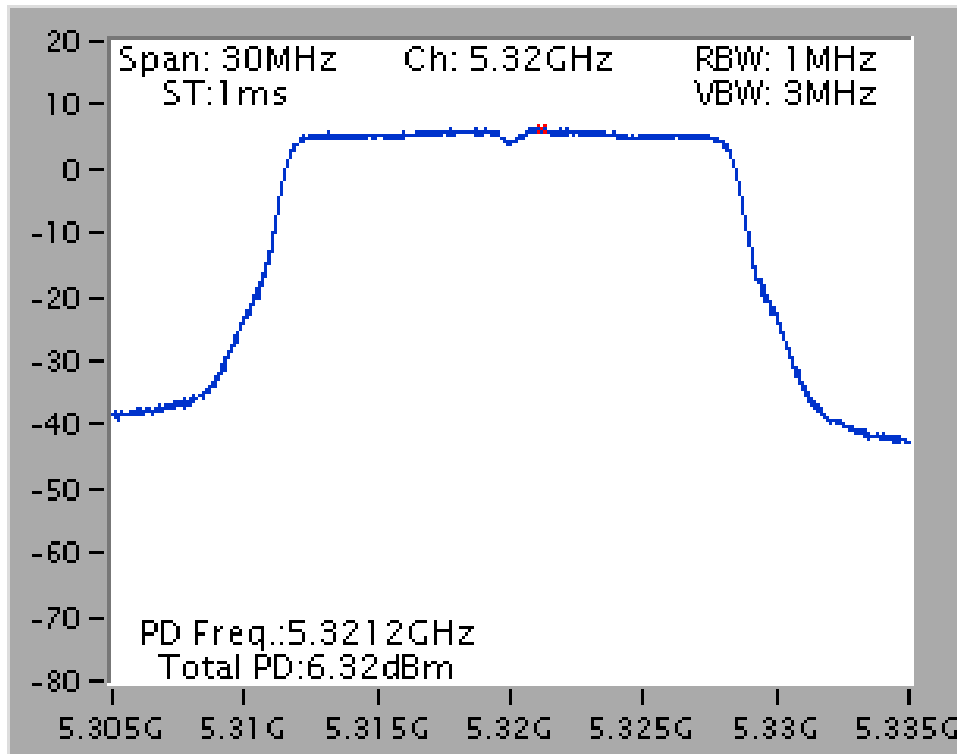
Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 52 / Ant. 1+2+3 (1S3T, CDD2)



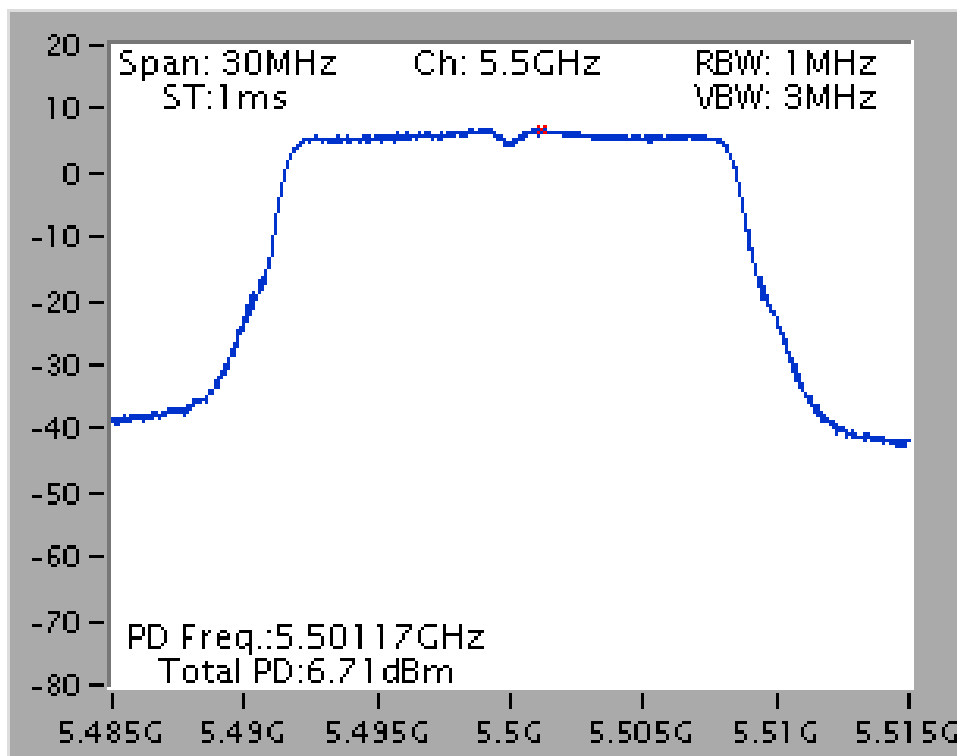
Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 60 / Ant. 1+2+3 (1S3T, CDD2)



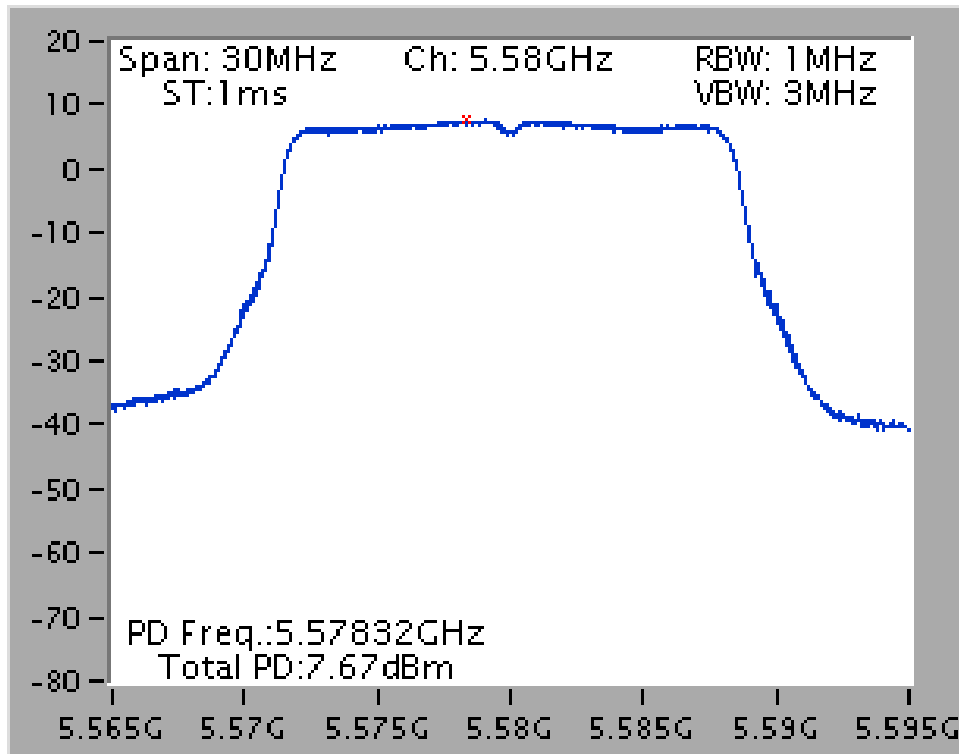
Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 64 / Ant. 1+2+3 (1S3T, CDD2)



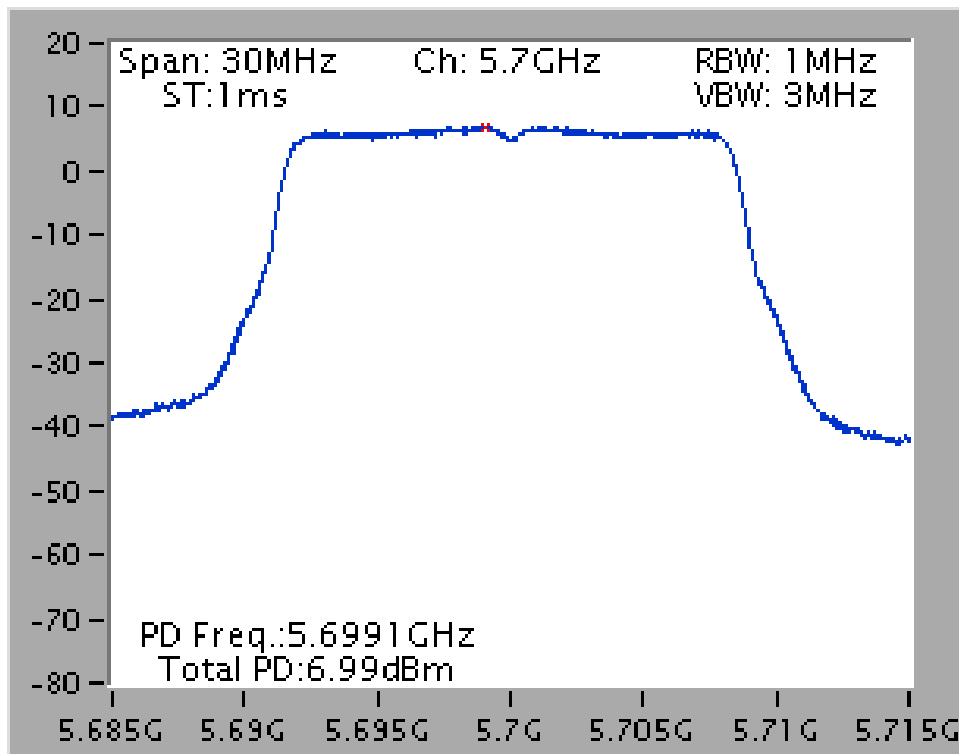
Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 100 / Ant. 1+2+3 (1S3T, CDD2)



Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 116 / Ant. 1+2+3 (1S3T, CDD2)



Power Density Plot on Configuration IEEE 802.11a / 6Mbps / CH 140 / Ant. 1+2+3 (1S3T, CDD2)



<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 20MHz
<b>Duty Cycle</b>	<Nss1MCS0, Ant. 1 (1S1T)>: 99.03% <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>: 98.97%		

**Configuration IEEE 802.11ac 20MHz**

**<Nss1MCS0, Ant. 1 (1S1T)>**

Channel	Frequency	Power Density (dBm/MHz)	Antenna Gain	Max. Limit (dBm/MHz)	Result
52	5260 MHz	7.50	5.98	11.00	Complies
60	5300 MHz	4.85	6.06	10.94	Complies
64	5320 MHz	4.66	6.00	11.00	Complies
100	5500 MHz	4.88	6.36	10.64	Complies
116	5580 MHz	7.38	6.04	10.96	Complies
140	5700 MHz	6.07	6.46	10.54	Complies

Note:

5260MHz Gain=5.98dBi <6dBi, so the limit doesn't reduce.

5300MHz Gain=6.06dBi >6dBi, so limit =11-(6.06-6)=10.94dBm/MHz.

5320MHz Gain=6.00dBi <6dBi, so the limit doesn't reduce.

5500MHz Gain=6.36dBi >6dBi, so limit =11-(6.36-6)=10.64dBm/MHz.

5580MHz Gain=6.04dBi >6dBi, so limit =11-(6.04-6)=10.96dBm/MHz.

5700MHz Gain=6.46dBi >6dBi, so limit =11-(6.46-6)=10.54dBm/MHz.

<Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>

Channel	Frequency	Power Density (dBm/MHz)	Directional Gain	Max. Limit (dBm/MHz)	Result
52	5260 MHz	7.11	7.35	9.65	Complies
60	5300 MHz	6.19	7.61	9.39	Complies
64	5320 MHz	6.81	7.52	9.48	Complies
100	5500 MHz	6.50	7.60	9.40	Complies
116	5580 MHz	7.57	7.52	9.48	Complies
140	5700 MHz	6.98	7.54	9.46	Complies

Note:

5260 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.35dBi > 6dBi, \text{ so Limit} = 11 - (7.35 - 6) = 9.65dBm/MHz.$$

5300 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.61dBi > 6dBi, \text{ so Limit} = 11 - (7.61 - 6) = 9.39dBm/MHz.$$

5320 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.52dBi > 6dBi, \text{ so Limit} = 11 - (7.52 - 6) = 9.48dBm/MHz.$$

5500 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.60dBi > 6dBi, \text{ so Limit} = 11 - (7.60 - 6) = 9.40dBm/MHz.$$

5580 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.52dBi > 6dBi, \text{ so Limit} = 11 - (7.52 - 6) = 9.48dBm/MHz.$$

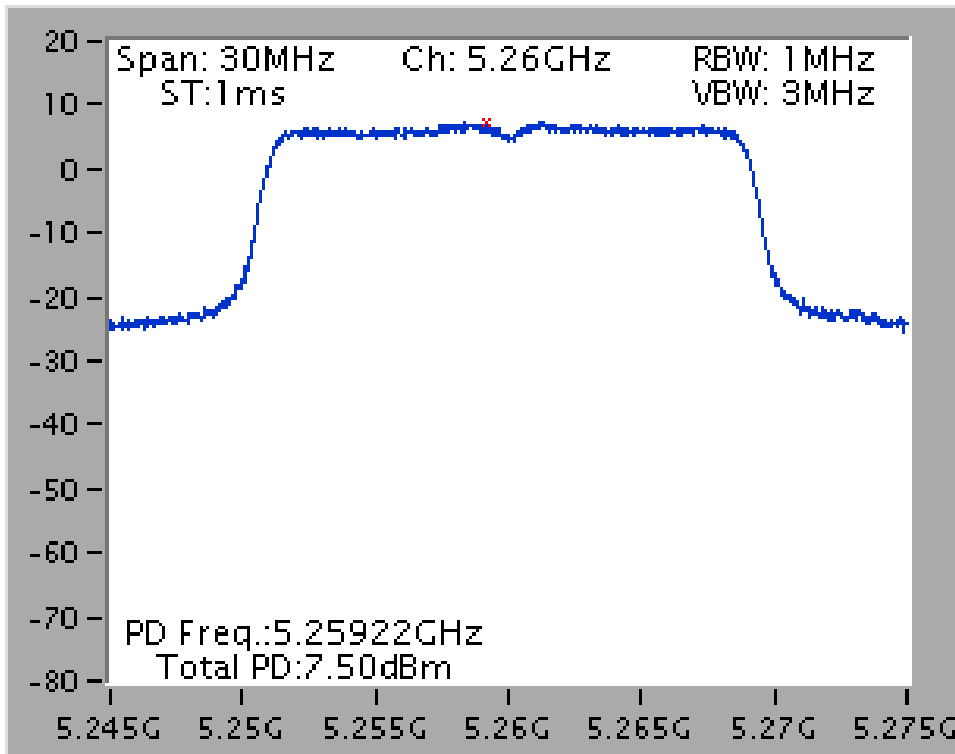
5700 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.54dBi > 6dBi, \text{ so Limit} = 11 - (7.54 - 6) = 9.46dBm/MHz.$$

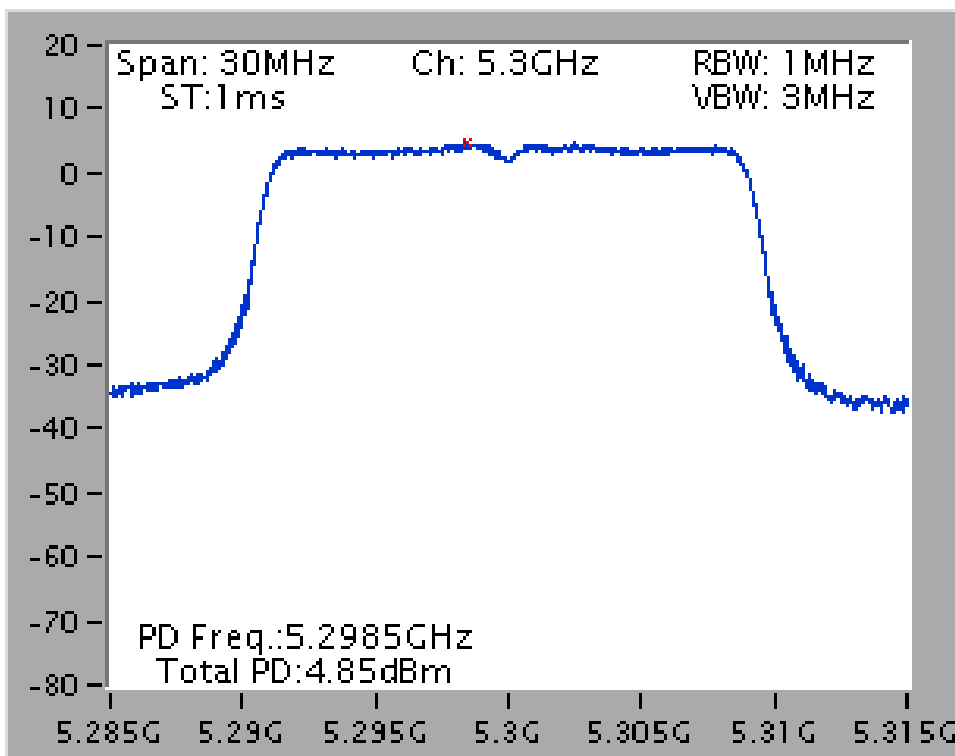


For <Nss1MCS0, Ant. 1 (1S1T)>:

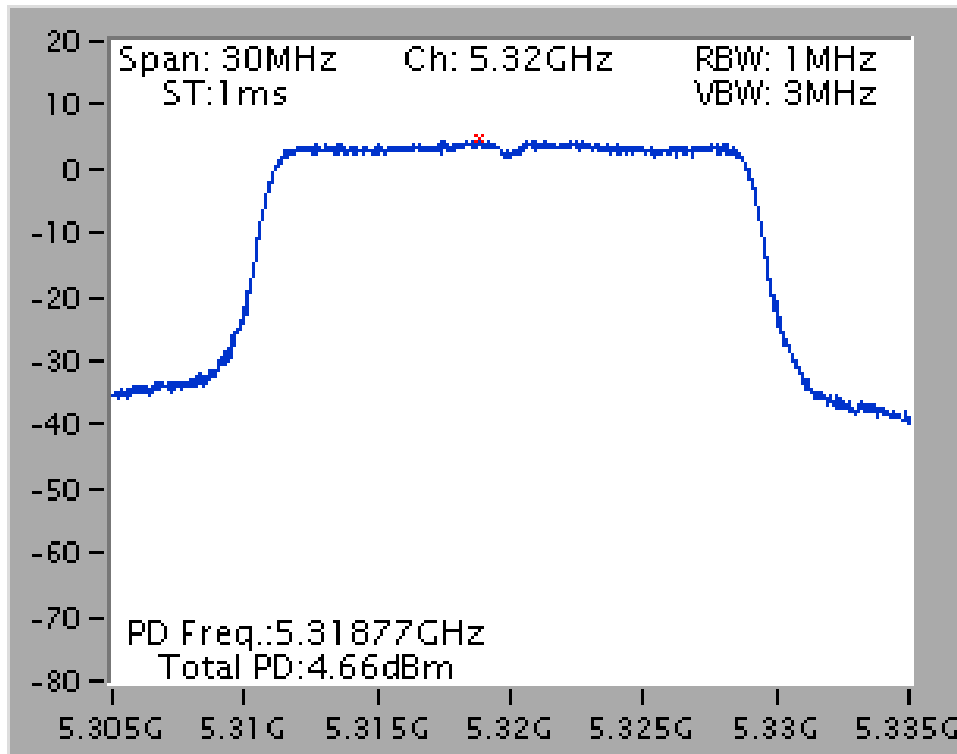
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1 (1S1T)



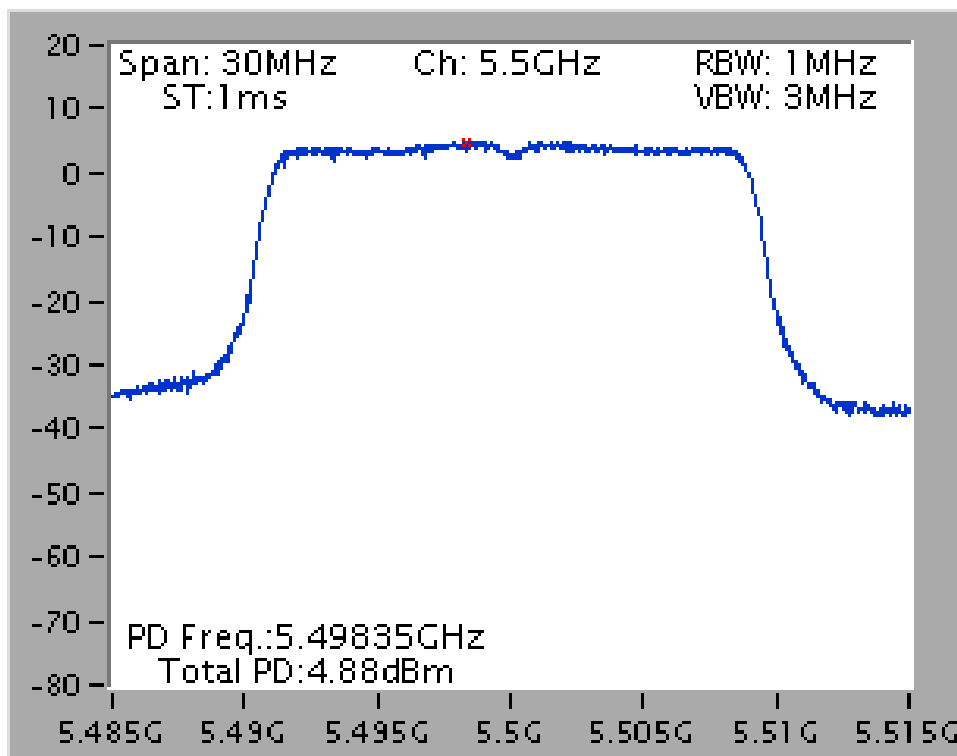
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1 (1S1T)



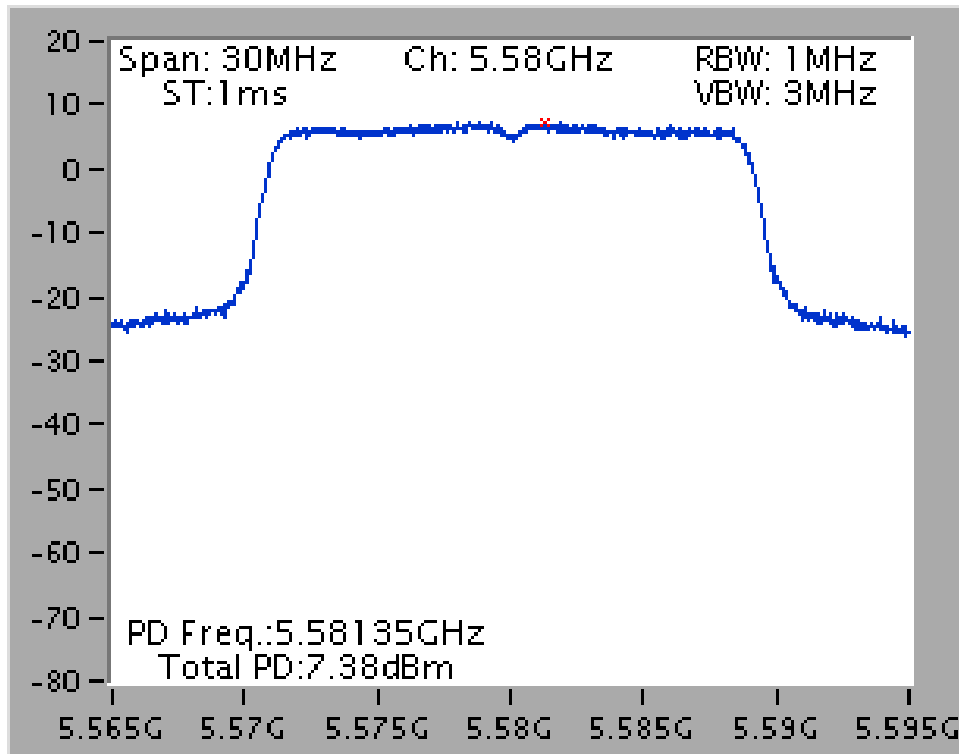
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1 (1S1T)



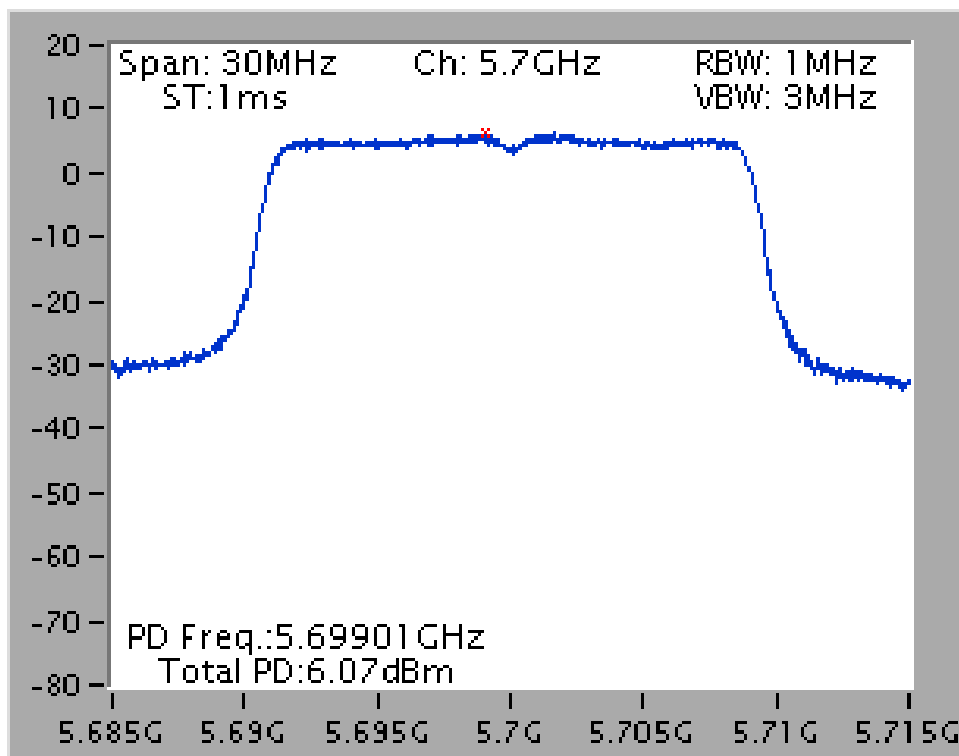
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1 (1S1T)



Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1 (1S1T)

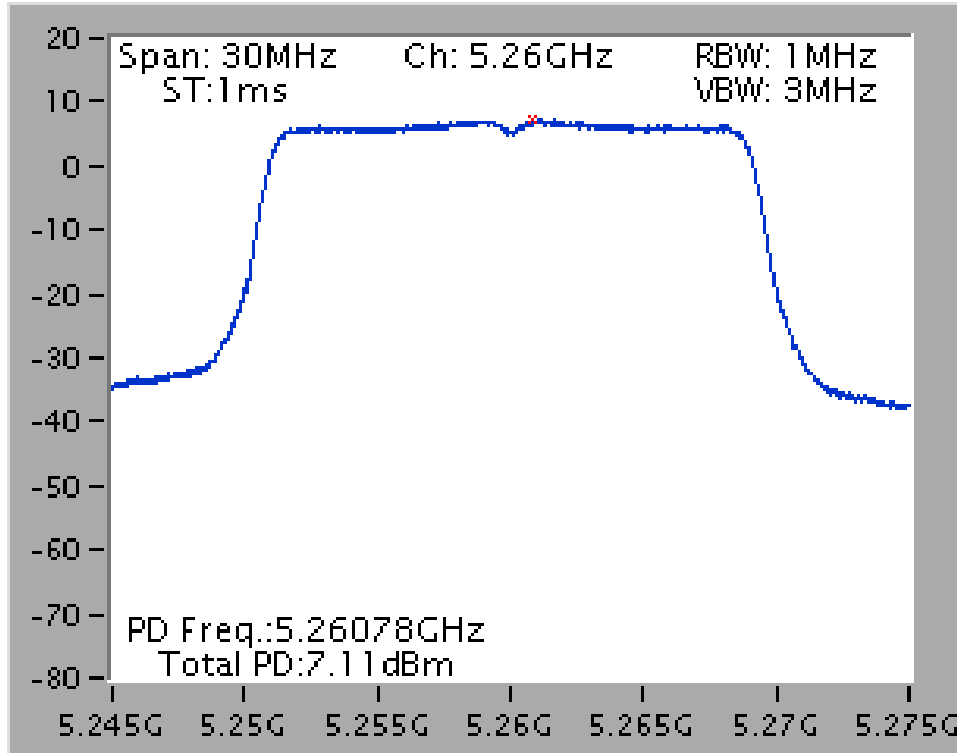


Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1 (1S1T)

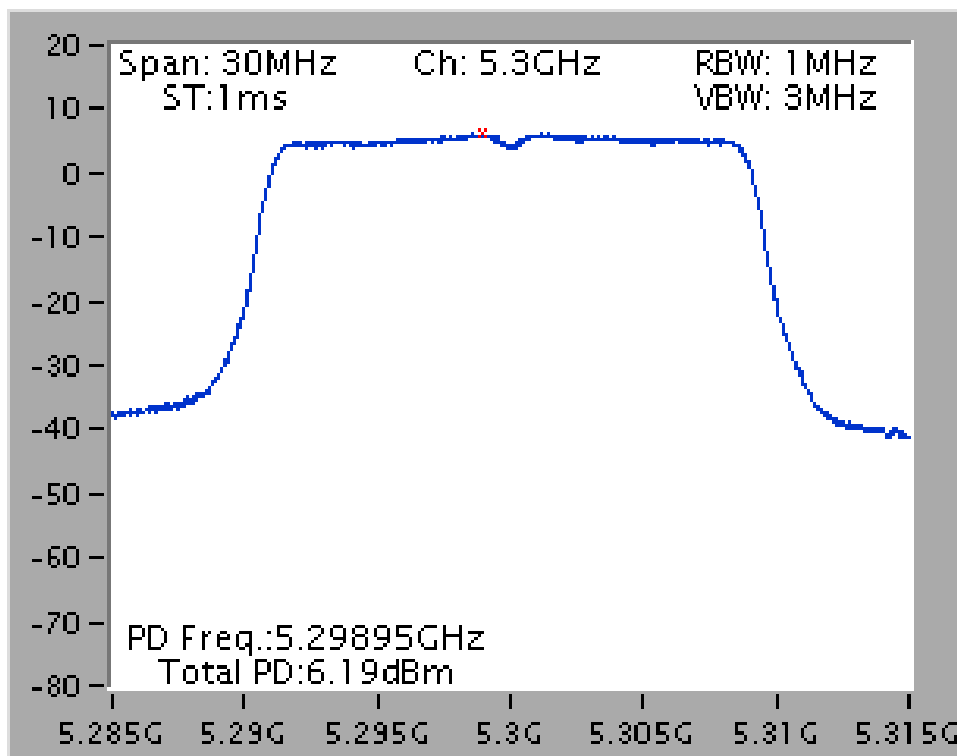


For <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>:

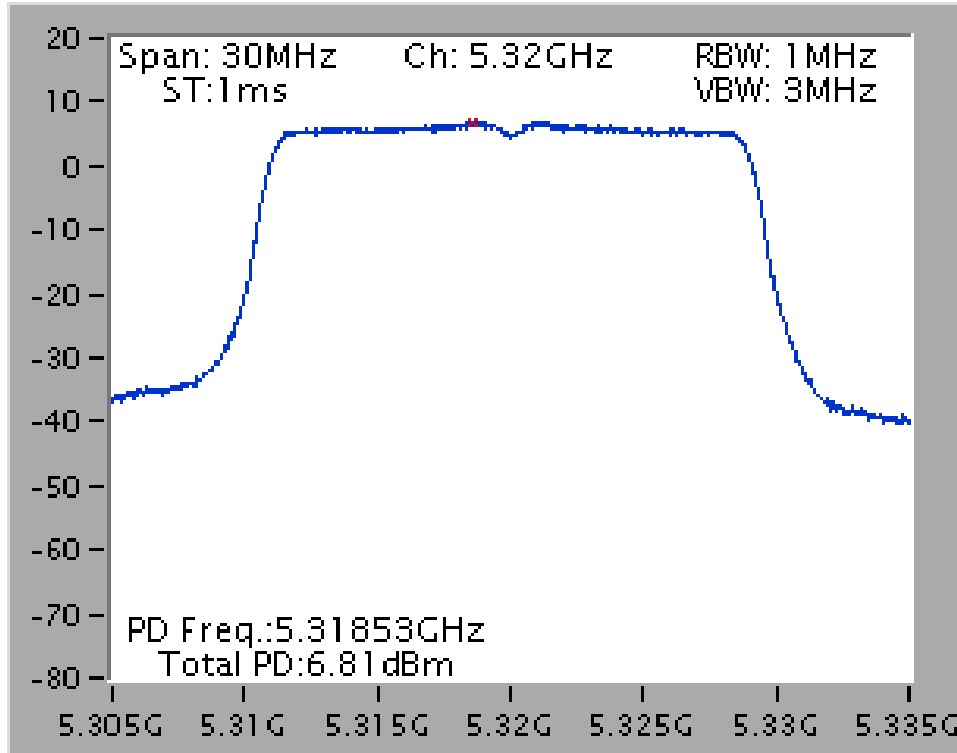
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1+2+3 (1S3T, CDD2)



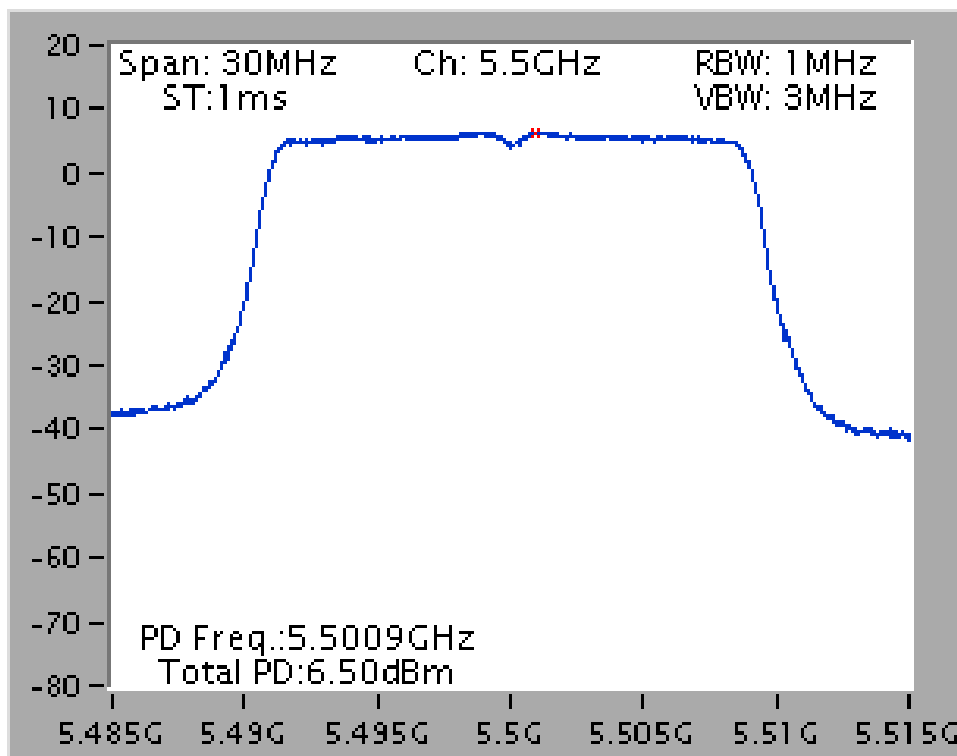
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1+2+3 (1S3T, CDD2)



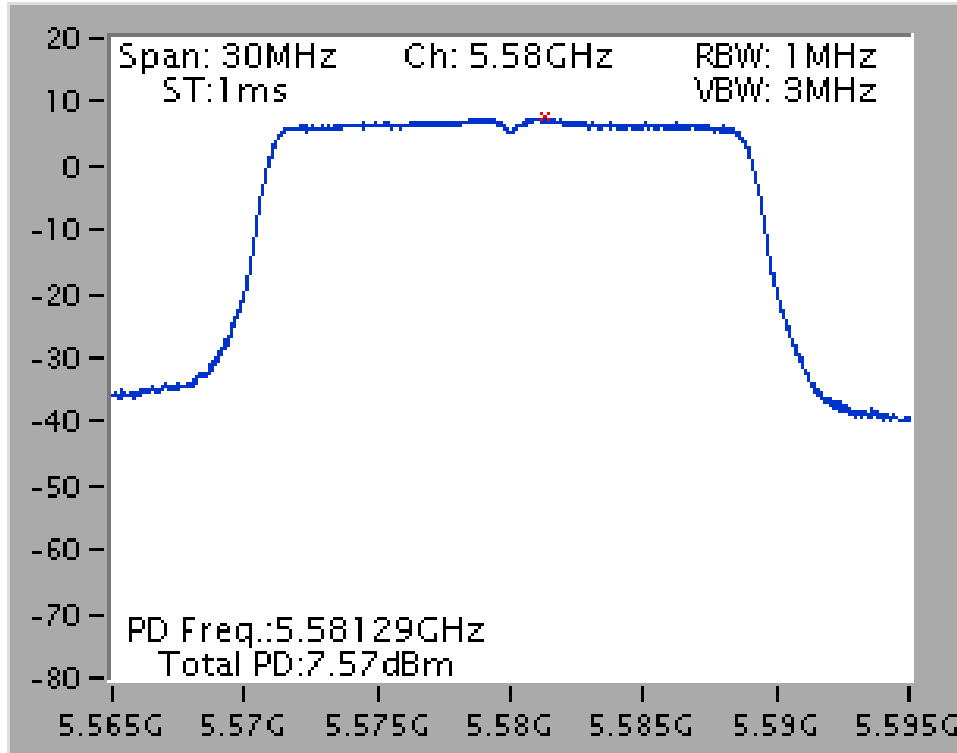
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1+2+3 (1S3T, CDD2)



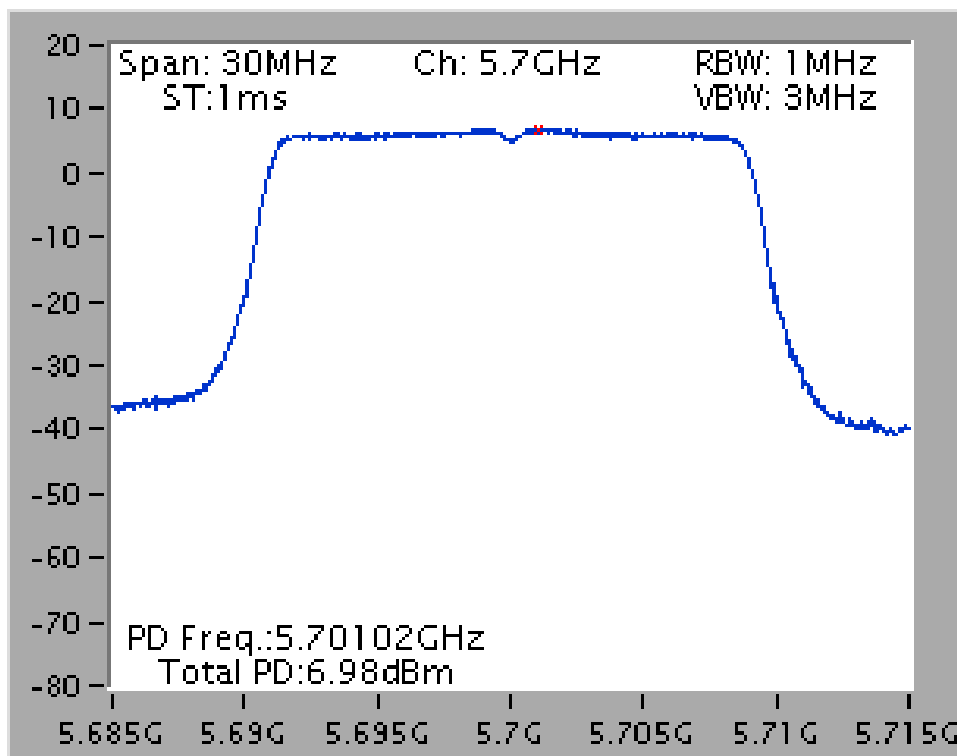
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1+2+3 (1S3T, CDD2)



Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1+2+3 (1S3T, CDD2)



Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1+2+3 (1S3T, CDD2)



<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 40MHz
<b>Duty Cycle</b>	< Nss1MCS0, Ant. 1 (1S1T)>: 97.25% <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>: 97.53%		

**Configuration IEEE 802.11ac 40MHz**

**<Nss1MCS0, Ant. 1 (1S1T)>**

Channel	Frequency	Power Density (dBm/MHz)	Antenna Gain	Max. Limit (dBm/MHz)	Result
54	5270 MHz	2.23	5.91	11.00	Complies
62	5310 MHz	1.51	6.06	10.94	Complies
102	5510 MHz	2.71	6.29	10.71	Complies
110	5550 MHz	4.73	5.91	11.00	Complies
134	5670 MHz	2.49	5.95	11.00	Complies

Note:

5270MHz Gain=5.91dBi <6dBi, so the limit doesn't reduce.

5310MHz Gain=6.06dBi >6dBi, so limit =11-(6.06-6)=10.94dBm/MHz.

5510MHz Gain=6.29dBi >6dBi, so limit =11-(6.29-6)=10.71dBm/MHz.

5550MHz Gain=5.91dBi <6dBi, so the limit doesn't reduce.

5670MHz Gain=5.95dBi <6dBi, so the limit doesn't reduce.

<Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>

Channel	Frequency	Power Density (dBm/MHz)	Directional Gain	Max. Limit (dBm/MHz)	Result
54	5270 MHz	4.18	7.24	9.76	Complies
62	5310 MHz	4.24	7.61	9.39	Complies
102	5510 MHz	4.19	7.73	9.27	Complies
110	5550 MHz	4.06	7.42	9.58	Complies
134	5670 MHz	3.96	7.01	9.99	Complies

Note:

5270 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.24\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.24 - 6) = 9.76\text{dBm/MHz}.$$

5310 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.61\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.61 - 6) = 9.39\text{dBm/MHz}.$$

5510 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.73\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.73 - 6) = 9.27\text{dBm/MHz}.$$

5550 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.42\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.42 - 6) = 9.58\text{dBm/MHz}.$$

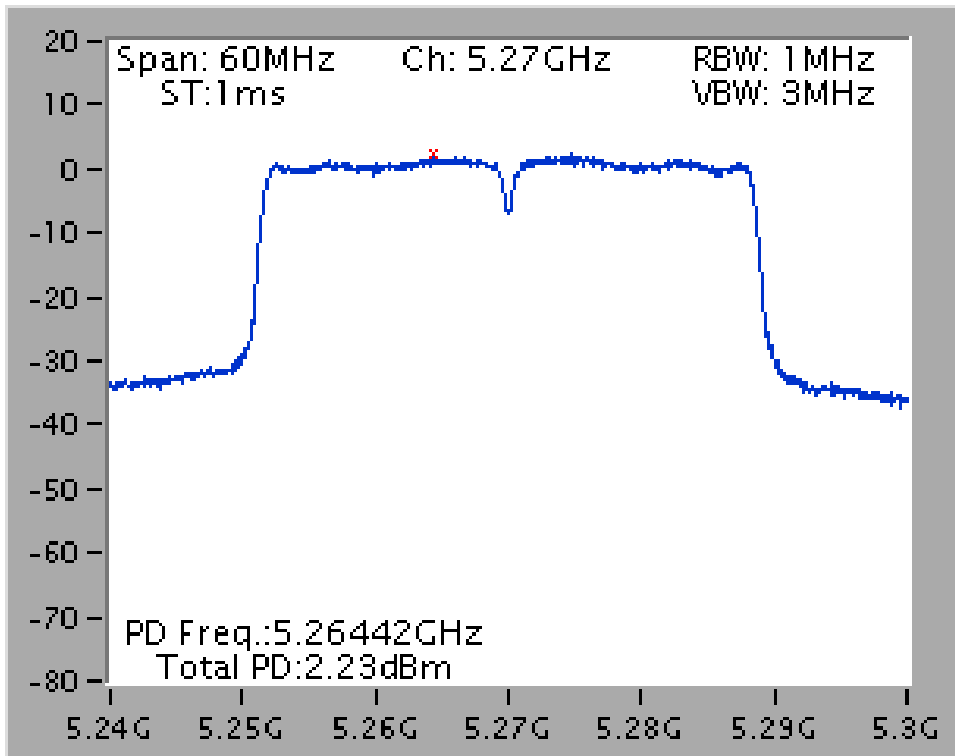
5670 MHz=  

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.01 - 6) = 9.99\text{dBm/MHz}.$$

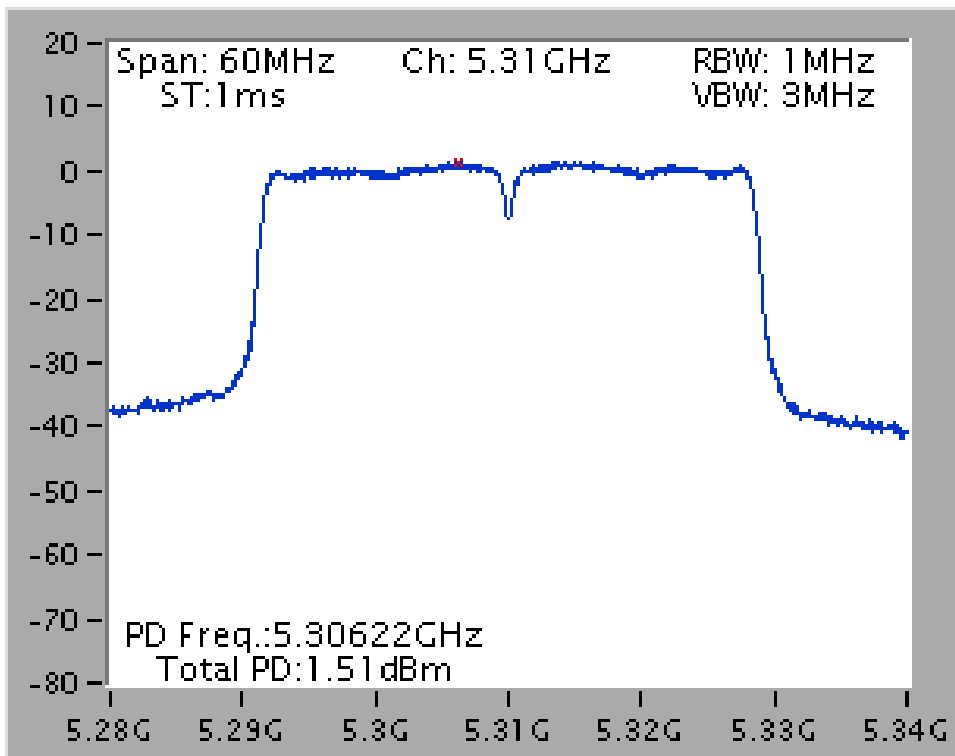


For <Nss1MCS0, Ant. 1 (1S1T)>:

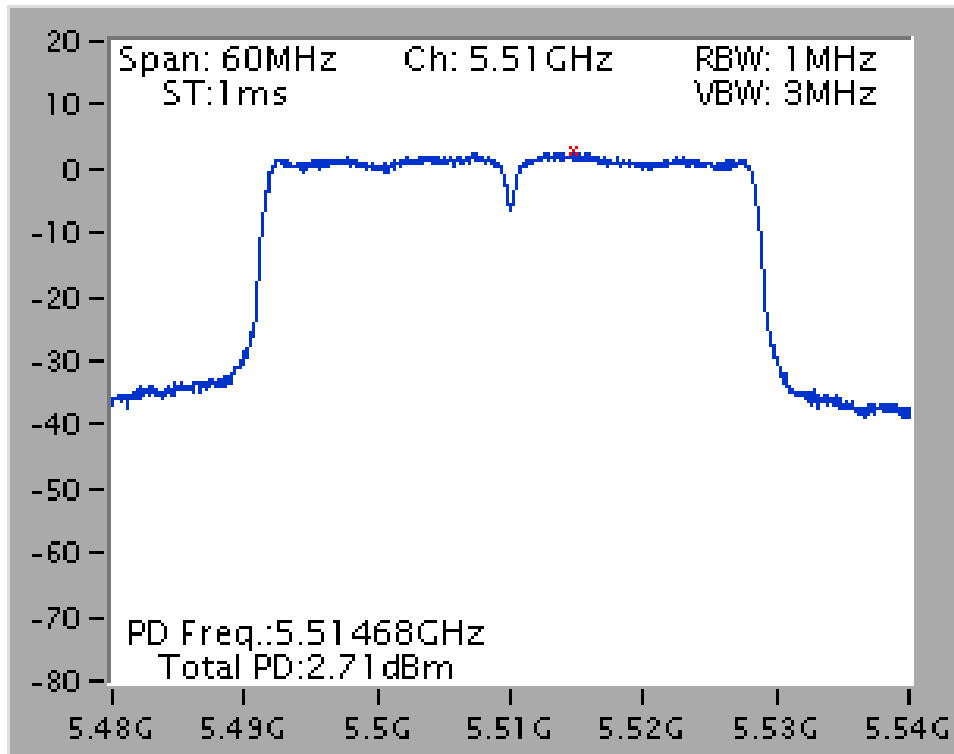
Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1 (1S1T)



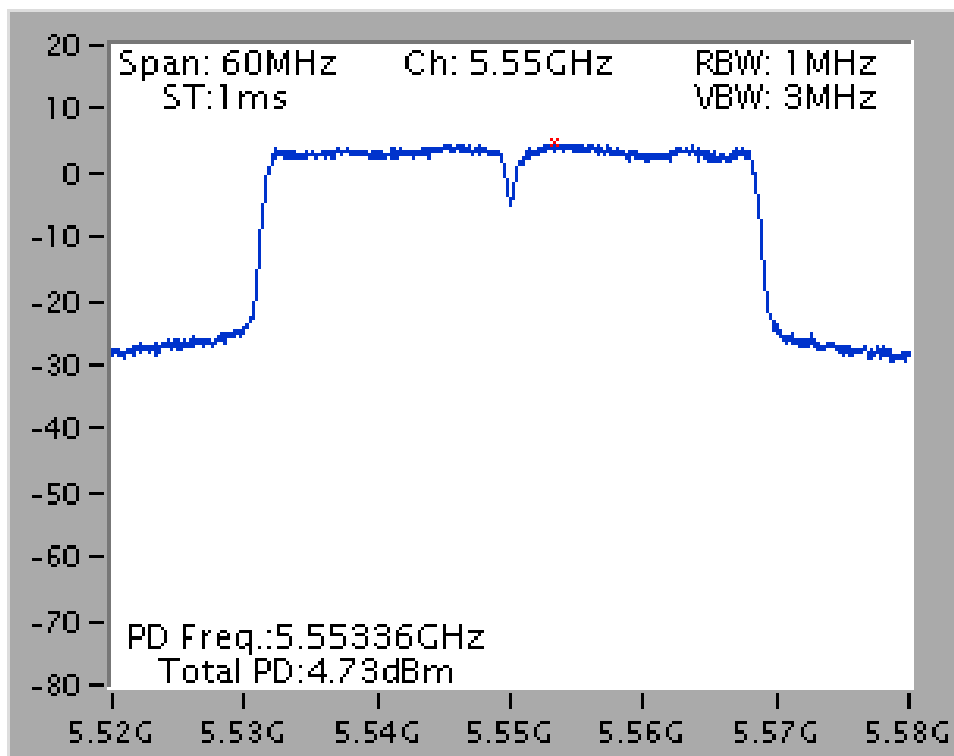
Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1 (1S1T)



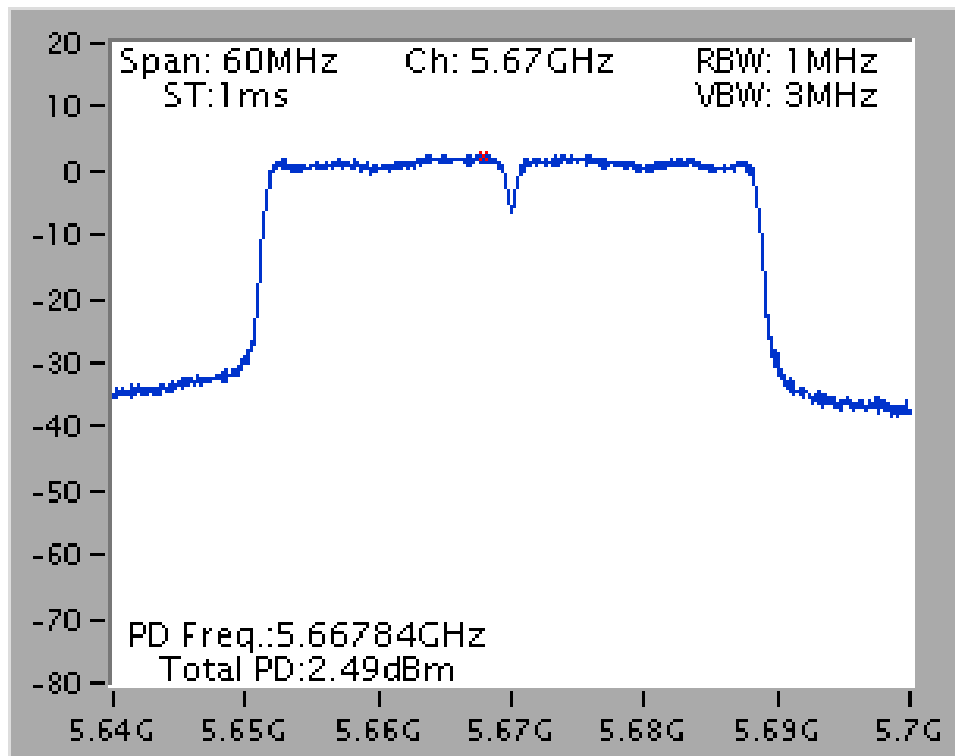
Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1 (1S1T)



Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1 (1S1T)

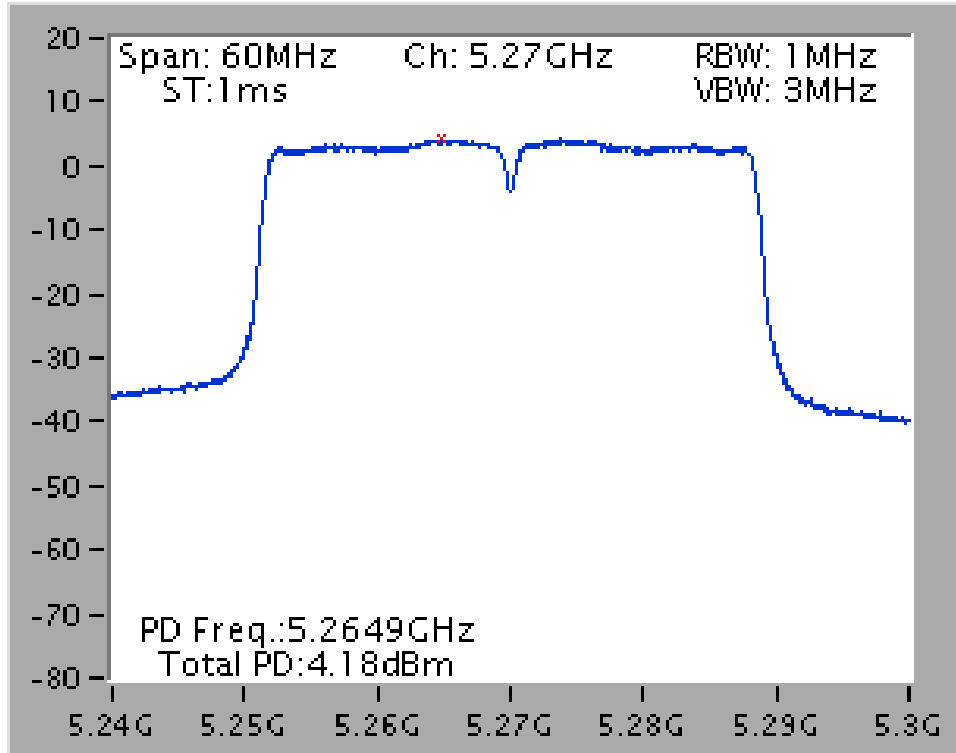


Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1 (1S1T)

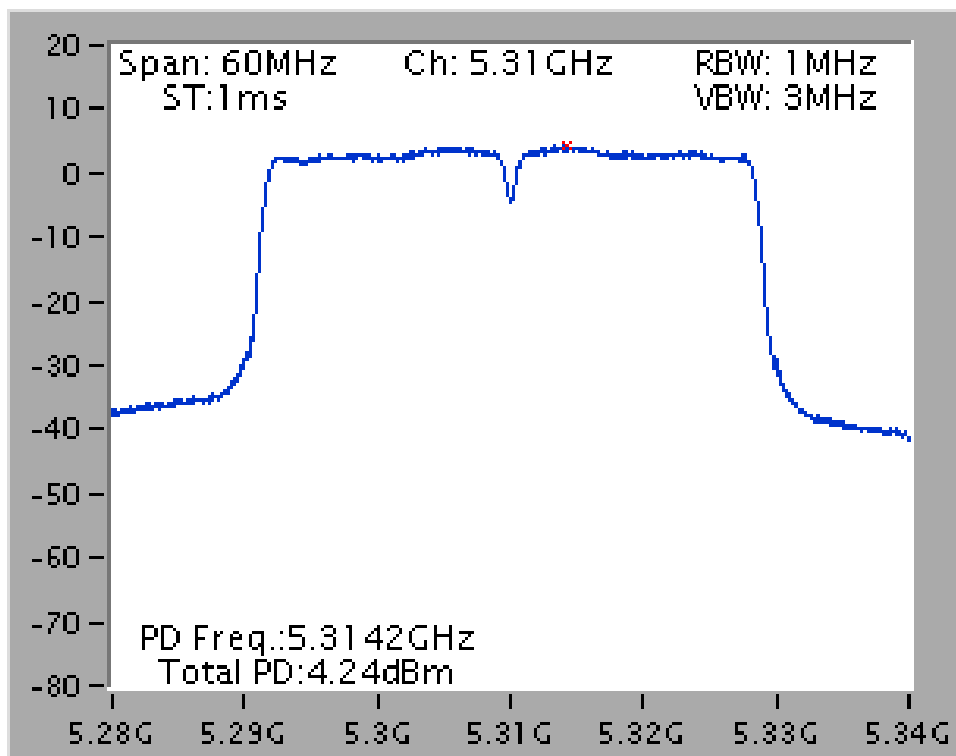


For <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>:

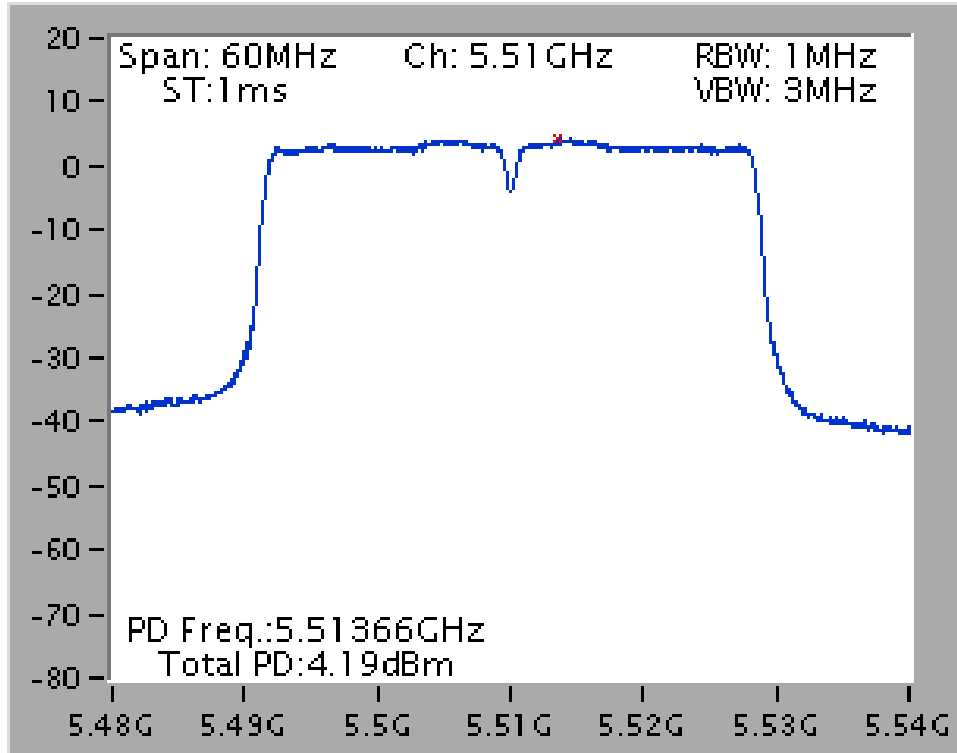
Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1+2+3 (1S3T, CDD2)



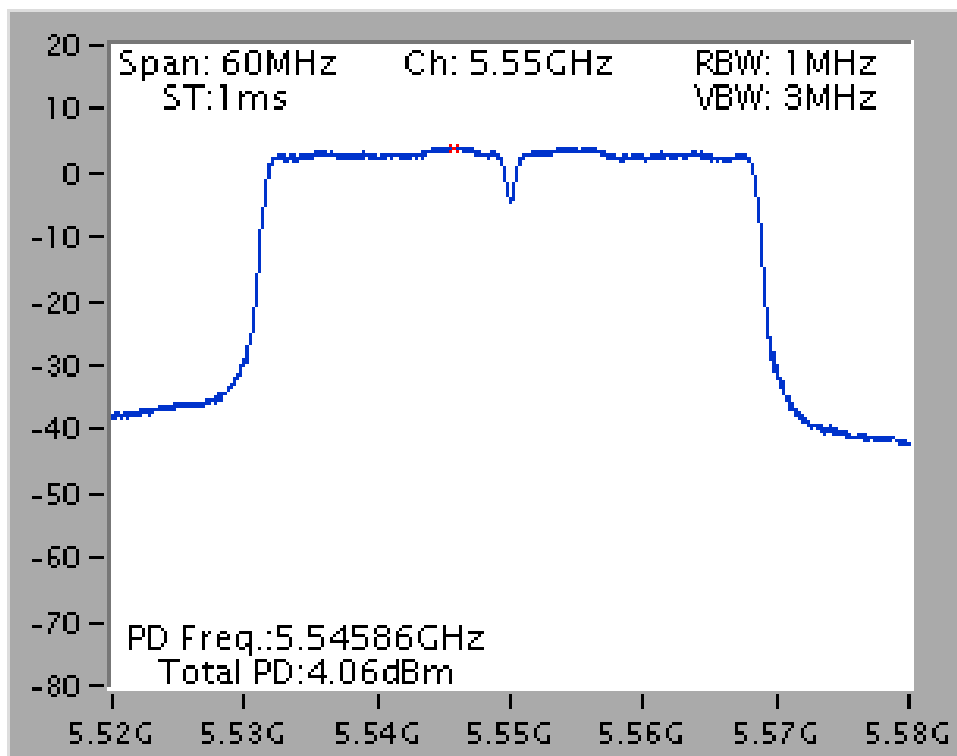
Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1+2+3 (1S3T, CDD2)



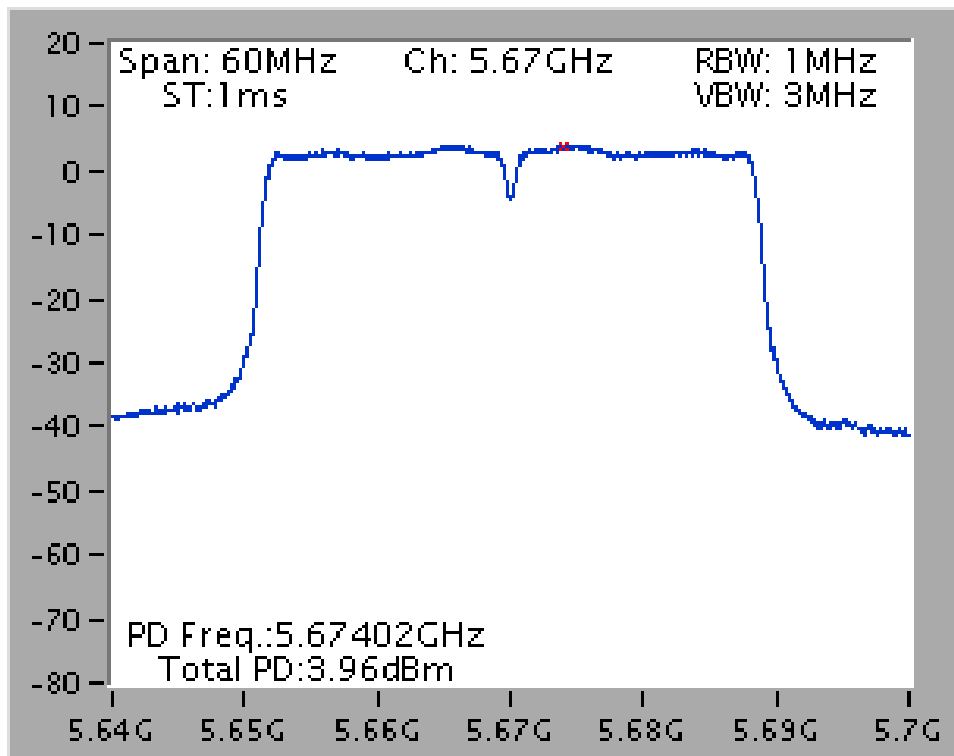
Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1+2+3 (1S3T, CDD2)



Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1+2+3 (1S3T, CDD2)



Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1+2+3 (1S3T, CDD2)



<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Configuration</b>	802.11ac 80MHz
<b>Duty Cycle</b>	<Nss1MCS0, Ant. 1 (1S1T)>: 95.75% <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>: 94.26%		

**Configuration IEEE 802.11ac 80MHz**

**<Nss1MCS0, Ant. 1 (1S1T)>**

Channel	Frequency	Power Density (dBm/MHz)	Antenna Gain	Max. Limit (dBm/MHz)	Result
58	5290 MHz	-2.40	5.93	11.00	Complies
106	5530 MHz	-2.87	5.88	11.00	Complies

Note:

5290MHz Gain=5.93dBi <6dBi, so the limit doesn't reduce.

5530MHz Gain=5.88dBi <6dBi, so the limit doesn't reduce.

**<Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>**

Channel	Frequency	Power Density (dBm/MHz)	Directional Gain	Max. Limit (dBm/MHz)	Result
58	5290 MHz	0.72	7.22	9.78	Complies
106	5530 MHz	0.19	7.46	9.54	Complies

Note:

5290 MHz=  

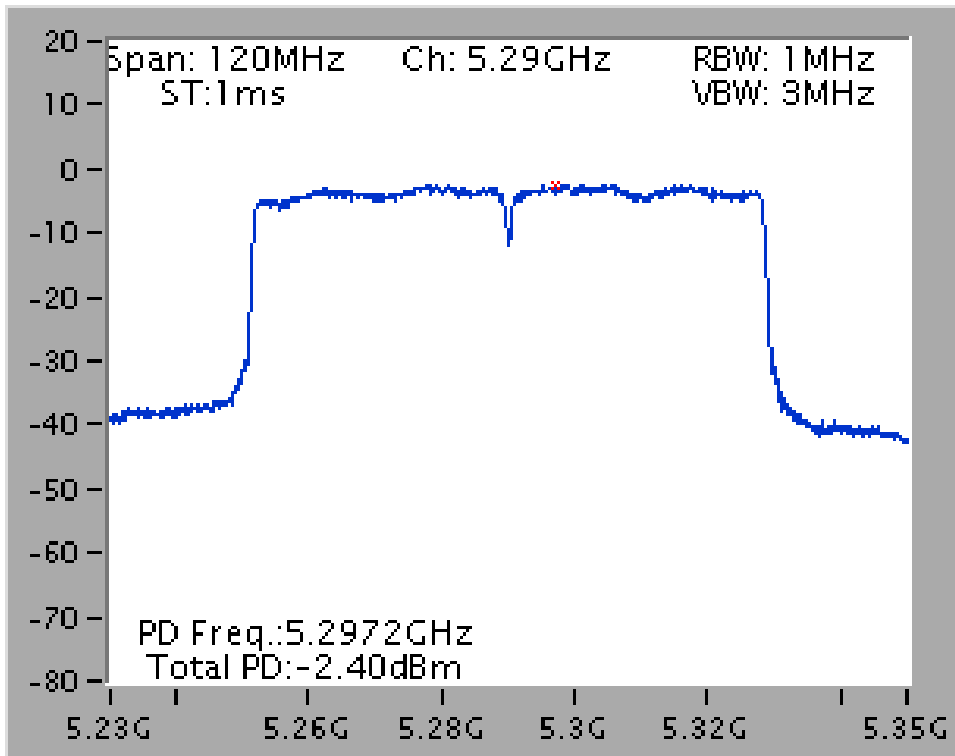
$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.22dBi > 6dBi, \text{ so Limit} = 11 - (7.22 - 6) = 9.78dBm/MHz.$$

5530 MHz=  

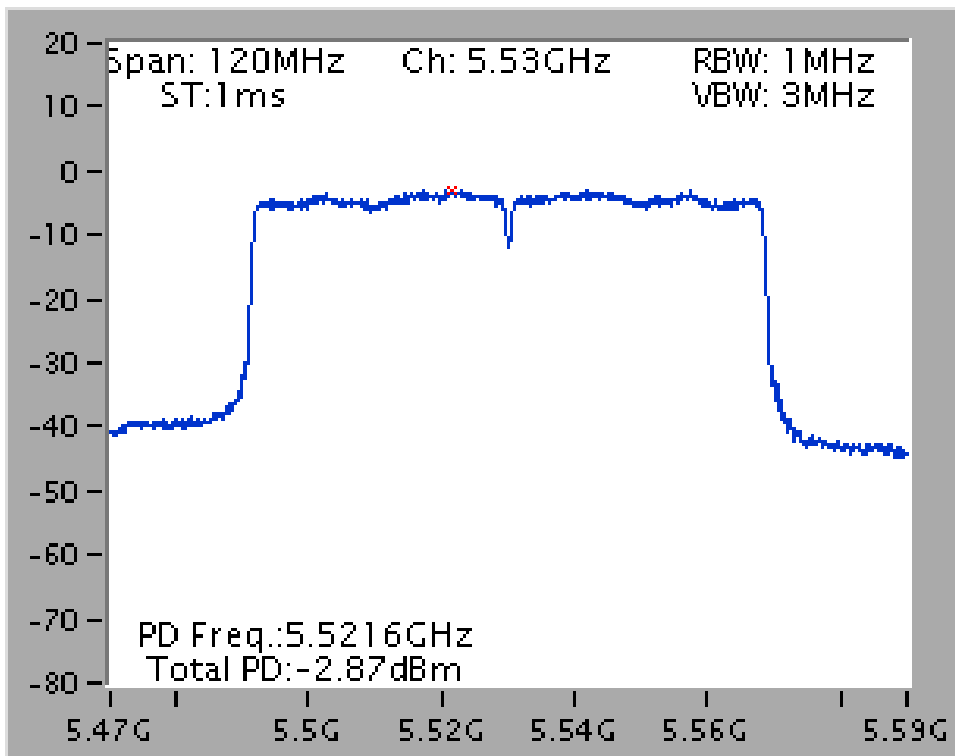
$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.46dBi > 6dBi, \text{ so Limit} = 11 - (7.46 - 6) = 9.54dBm/MHz.$$

For <Nss1MCS0, Ant. 1 (1S1T)>:

Power Density Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1 (1S1T)



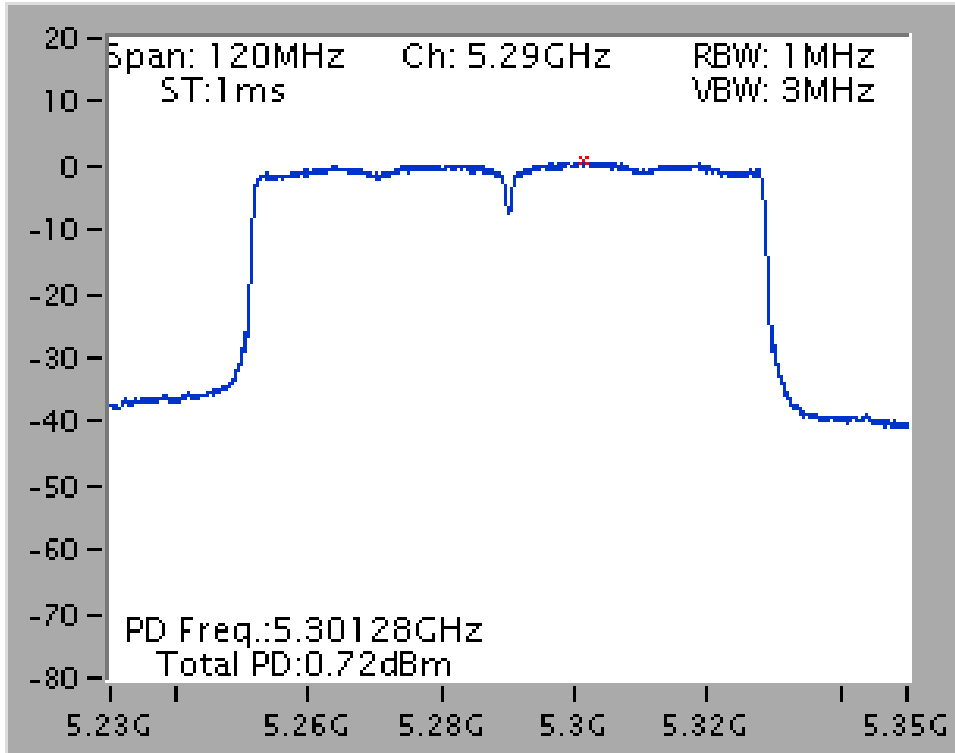
Power Density Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1 (1S1T)



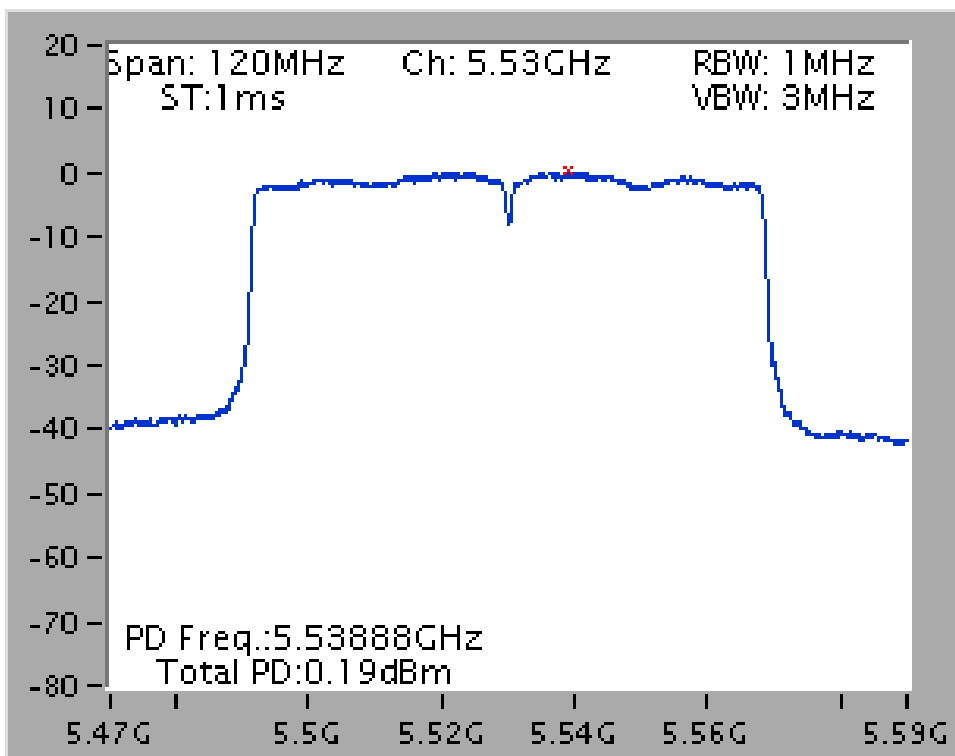


For <Nss1MCS0, Ant. 1+2+3 (1S3T, CDD2)>:

Power Density Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1+2+3 (1S3T, CDD2)



Power Density Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1+2+3 (1S3T, CDD2)



For Beamforming

Test date	Jul. 17, 2015	Test Site No.	TH01-CB
Temperature	20°C	Humidity	60%
Test Engineer	Clemens Fang	Configuration	802.11ac 20MHz
Duty Cycle	<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>: 95.59%		

Configuration IEEE 802.11ac 20MHz

<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>

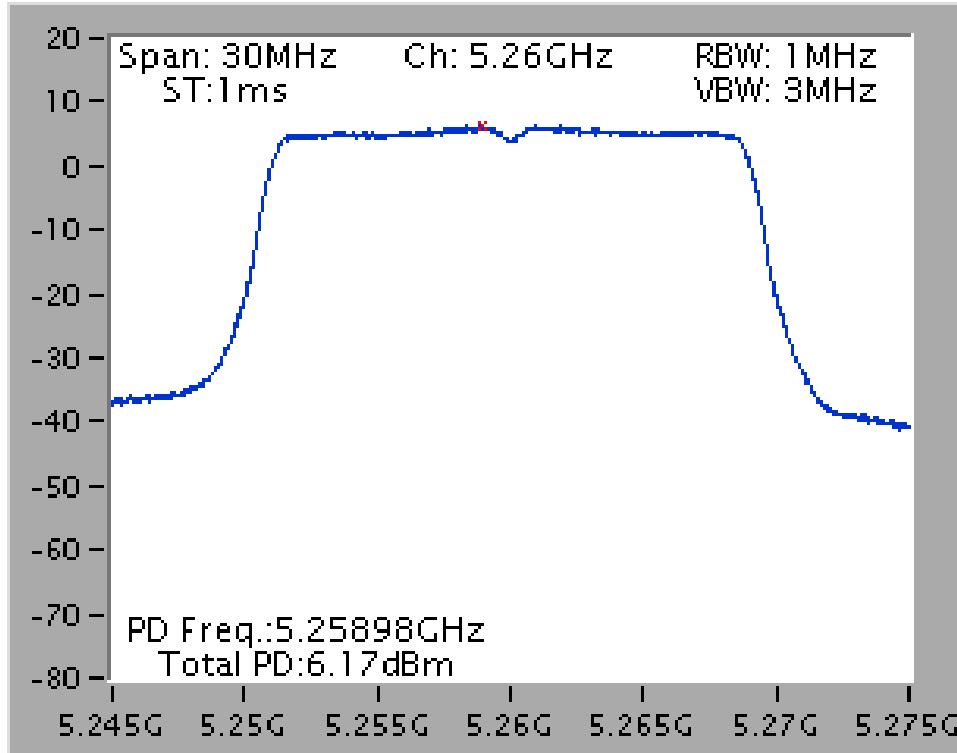
Channel	Frequency	Power Density (dBm/MHz)	Directional Gain	Max. Limit (dBm/MHz)	Result
52	5260 MHz	6.17	7.35	9.65	Complies
60	5300 MHz	4.56	7.61	9.39	Complies
64	5320 MHz	3.71	7.52	9.48	Complies
100	5500 MHz	3.34	7.60	9.40	Complies
116	5580 MHz	6.13	7.52	9.48	Complies
140	5700 MHz	6.15	7.54	9.46	Complies

Note:

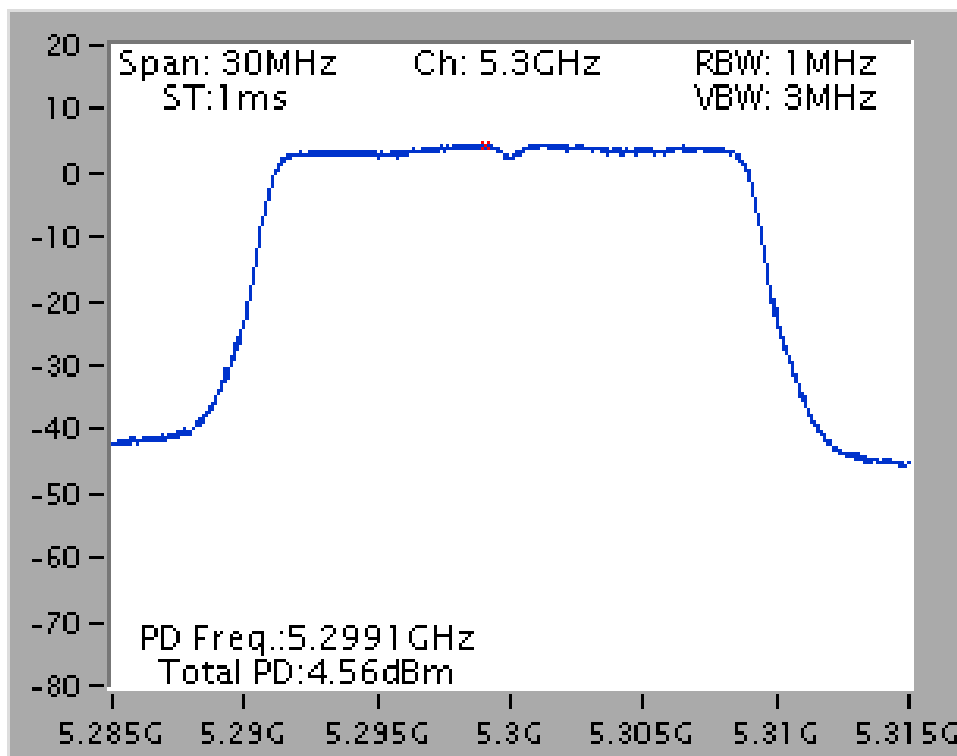
$$\begin{aligned}
 5260 \text{ MHz} &= \left[ \text{DirectionalGain} = 10 \cdot \log \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.35\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.35 - 6) = 9.65\text{dBm/MHz}. \\
 5300 \text{ MHz} &= \left[ \text{DirectionalGain} = 10 \cdot \log \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.61\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.61 - 6) = 9.39\text{dBm/MHz}. \\
 5320 \text{ MHz} &= \left[ \text{DirectionalGain} = 10 \cdot \log \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.52\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.52 - 6) = 9.48\text{dBm/MHz}. \\
 5500 \text{ MHz} &= \left[ \text{DirectionalGain} = 10 \cdot \log \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.60\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.60 - 6) = 9.40\text{dBm/MHz}. \\
 5580 \text{ MHz} &= \left[ \text{DirectionalGain} = 10 \cdot \log \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.52\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.52 - 6) = 9.48\text{dBm/MHz}. \\
 5700 \text{ MHz} &= \left[ \text{DirectionalGain} = 10 \cdot \log \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.54\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.54 - 6) = 9.46\text{dBm/MHz}.
 \end{aligned}$$

For <Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>:

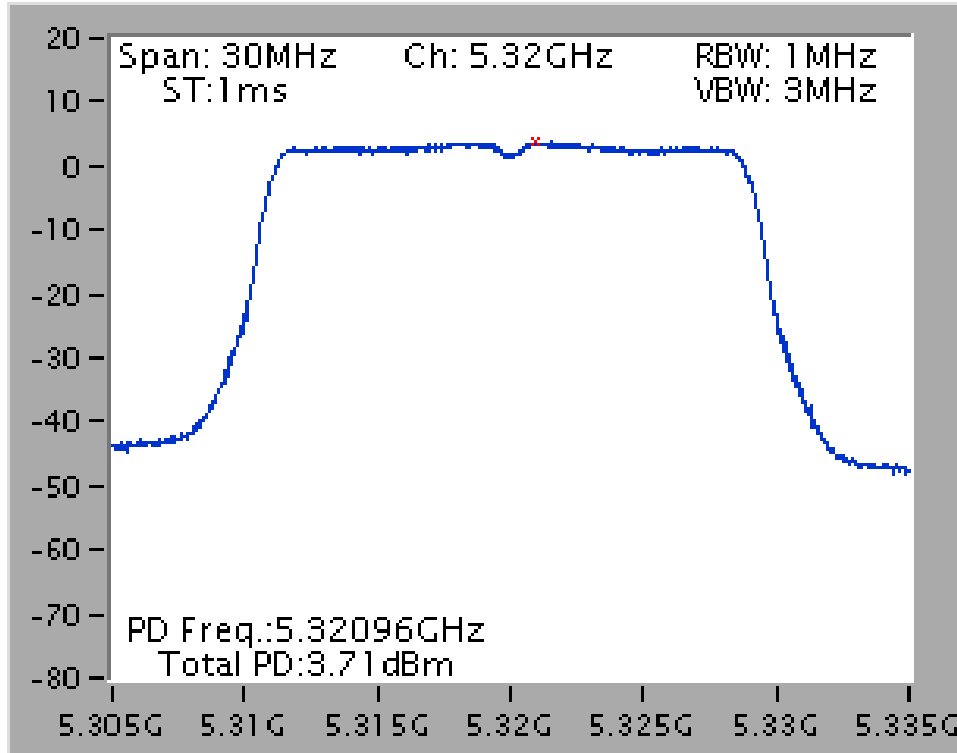
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1+2+3 (1S3T, TxBF2)



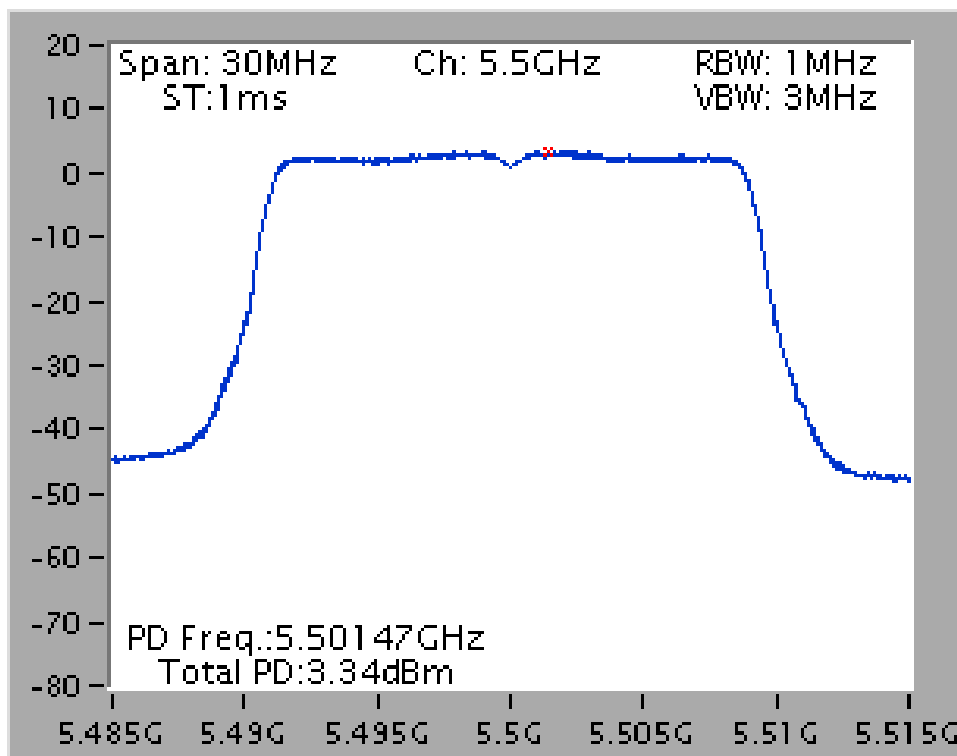
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1+2+3 (1S3T, TxBF2)



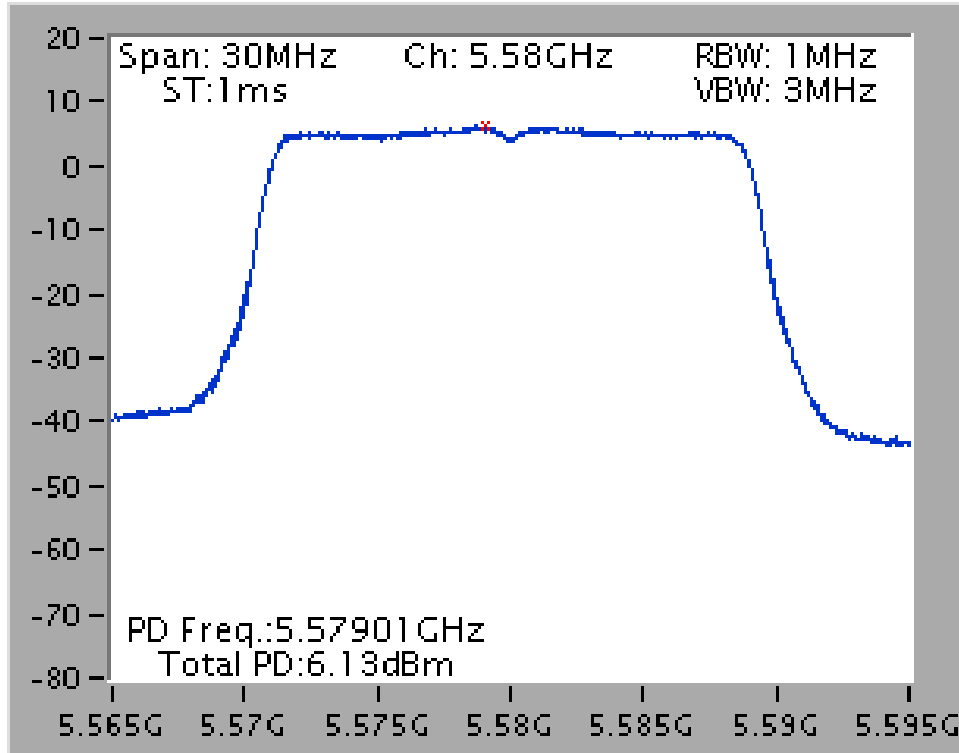
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1+2+3 (1S3T, TxBF2)



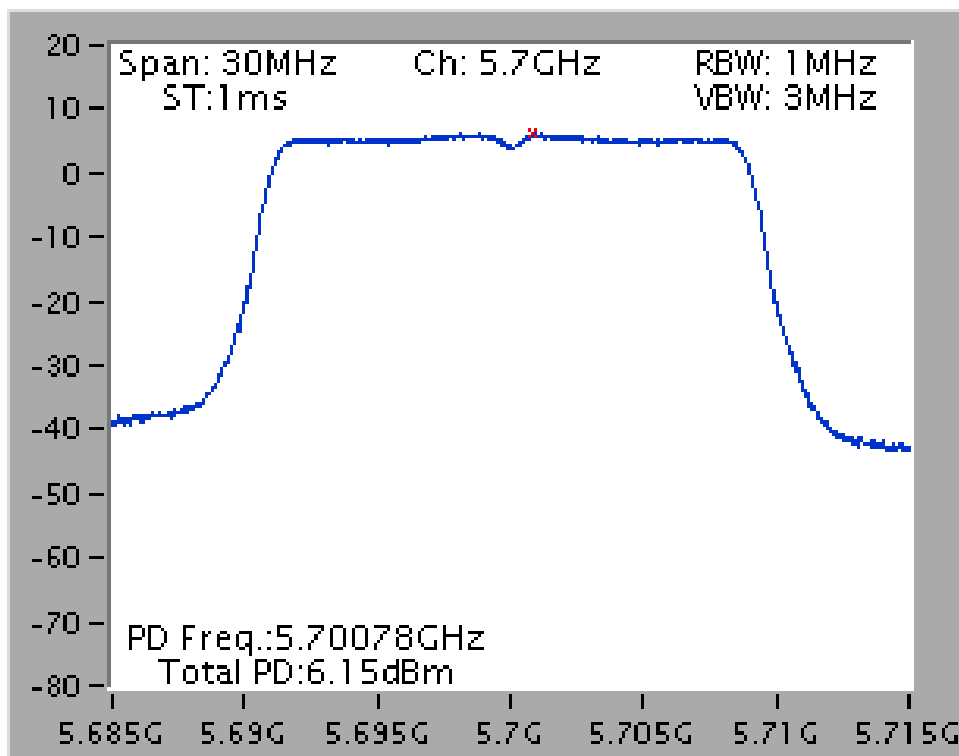
Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1+2+3 (1S3T, TxBF2)



Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1+2+3 (1S3T, TxBF2)



Power Density Plot on Configuration IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1+2+3 (1S3T, TxBF2)



Test date	Jul. 17, 2015	Test Site No.	TH01-CB
Temperature	20°C	Humidity	60%
Test Engineer	Clemens Fang	Configuration	802.11ac 40MHz
Duty Cycle	<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>: 90.82%		

Configuration IEEE 802.11ac 40MHz

<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>

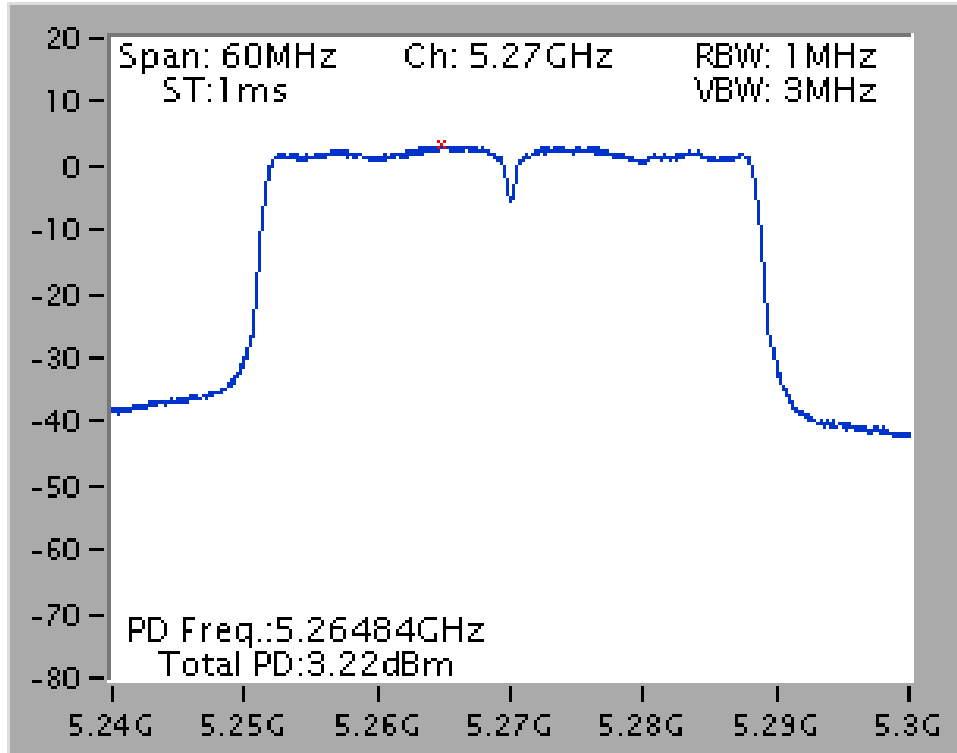
Channel	Frequency	Power Density (dBm/MHz)	Directional Gain	Max. Limit (dBm/MHz)	Result
54	5270 MHz	3.22	7.24	9.76	Complies
62	5310 MHz	3.06	7.61	9.39	Complies
102	5510 MHz	2.91	7.73	9.27	Complies
110	5550 MHz	2.69	7.42	9.58	Complies
134	5670 MHz	3.48	7.01	9.99	Complies

Note:

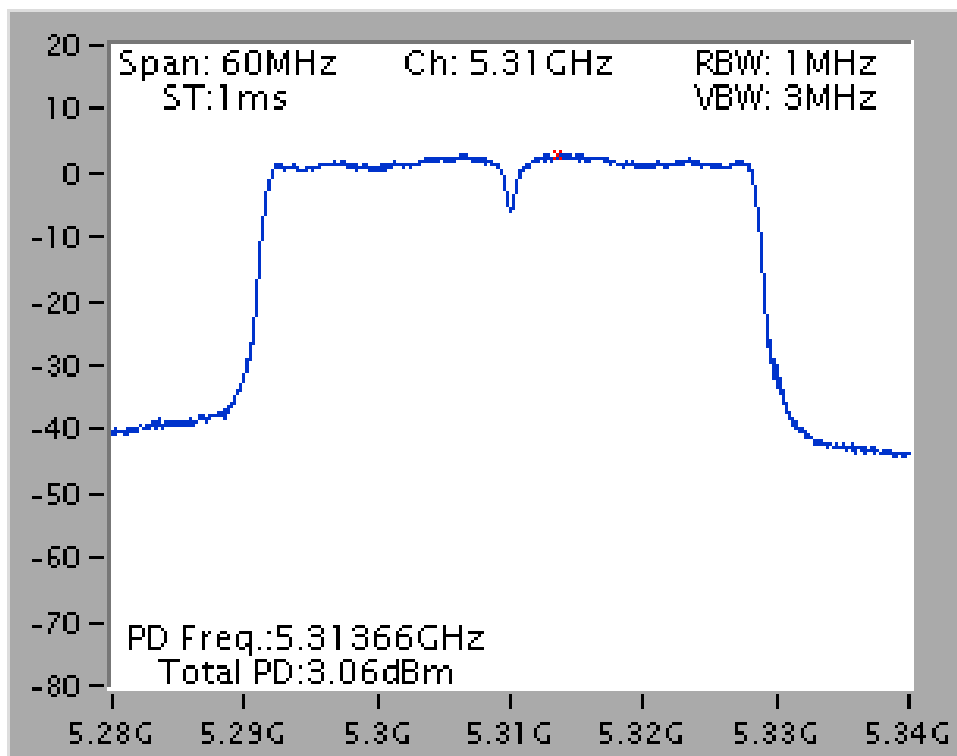
$$\begin{aligned}
 5270 \text{ MHz} &= \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.24 \text{ dBi} > 6 \text{ dBi}, \text{ so Limit} = 11 - (7.24 - 6) = 9.76 \text{ dBm/MHz}. \\
 5310 \text{ MHz} &= \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.61 \text{ dBi} > 6 \text{ dBi}, \text{ so Limit} = 11 - (7.61 - 6) = 9.39 \text{ dBm/MHz}. \\
 5510 \text{ MHz} &= \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.73 \text{ dBi} > 6 \text{ dBi}, \text{ so Limit} = 11 - (7.73 - 6) = 9.27 \text{ dBm/MHz}. \\
 5550 \text{ MHz} &= \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.42 \text{ dBi} > 6 \text{ dBi}, \text{ so Limit} = 11 - (7.42 - 6) = 9.58 \text{ dBm/MHz}. \\
 5670 \text{ MHz} &= \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.01 \text{ dBi} > 6 \text{ dBi}, \text{ so Limit} = 11 - (7.01 - 6) = 9.99 \text{ dBm/MHz}.
 \end{aligned}$$

For <Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>:

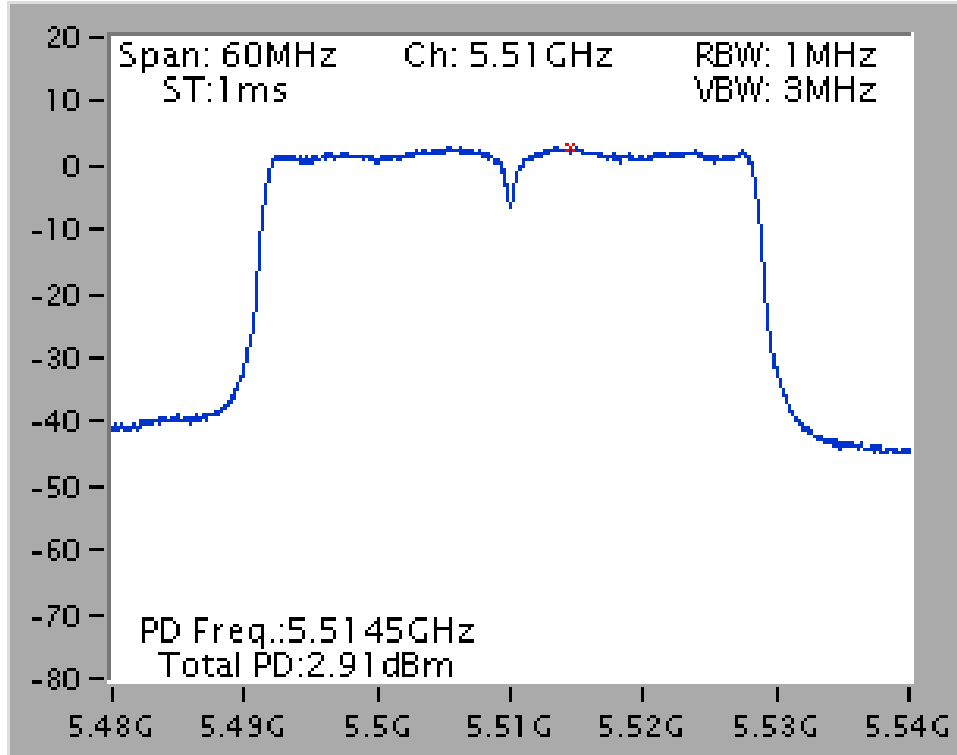
Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1+2+3 (1S3T, TxBF2)



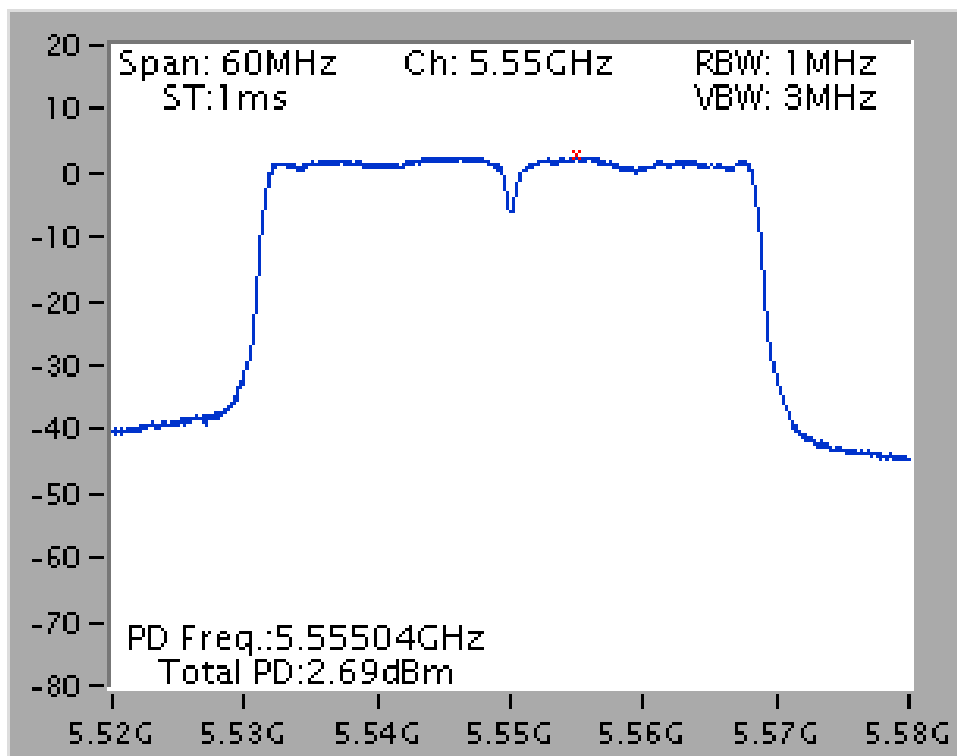
Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1+2+3 (1S3T, TxBF2)



Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1+2+3 (1S3T, TxBF2)

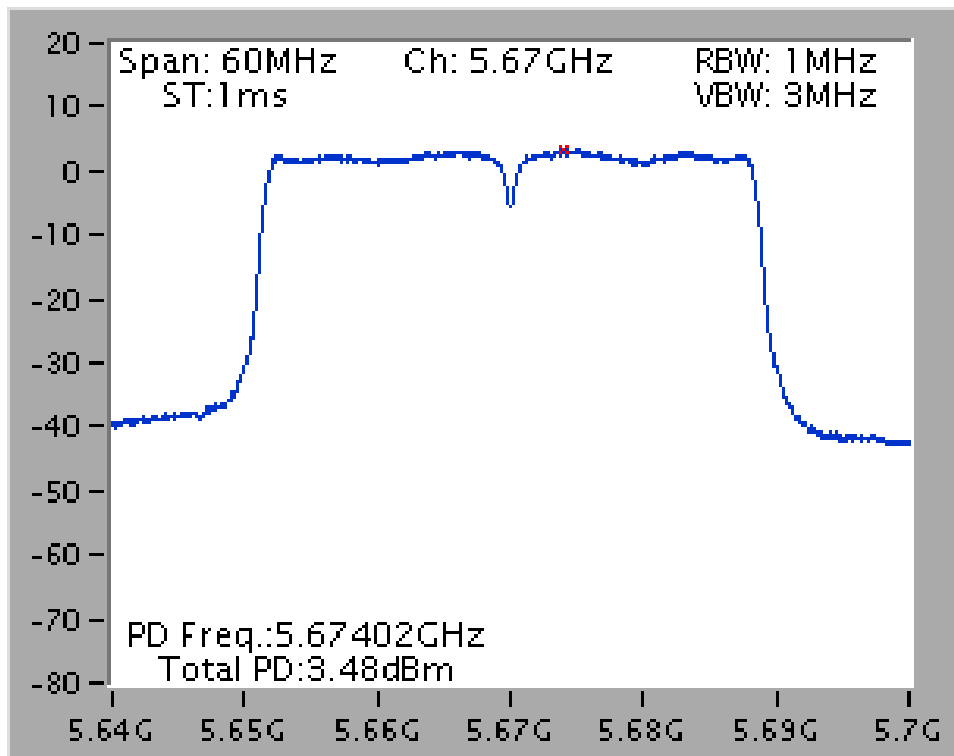


Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1+2+3 (1S3T, TxBF2)





Power Density Plot on Configuration IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1+2+3  
(1S3T, TxBF2)



Test date	Jul. 17, 2015	Test Site No.	TH01-CB
Temperature	20°C	Humidity	60%
Test Engineer	Clemens Fang	Configuration	802.11ac 80MHz
Duty Cycle	<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>: 82.62%		

Configuration IEEE 802.11ac 80MHz

<Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>

Channel	Frequency	Power Density (dBm/MHz)	Directional Gain	Max. Limit (dBm/MHz)	Result
58	5290 MHz	0.57	7.22	9.78	Complies
106	5530 MHz	-0.27	7.46	9.54	Complies

Note:

5290 MHz=

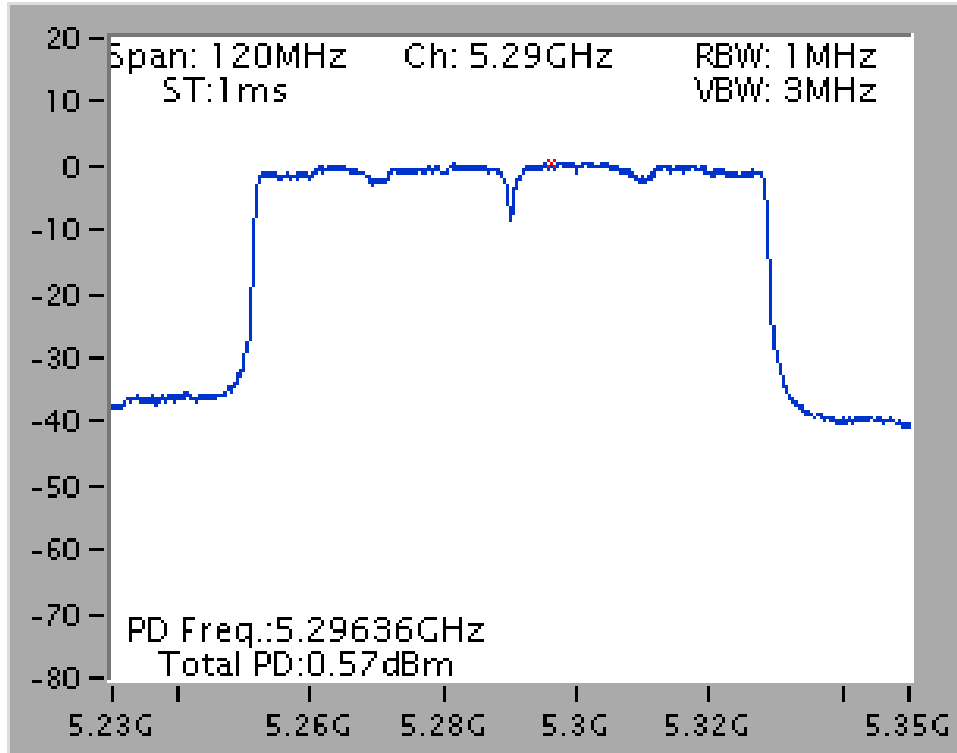
$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.22\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.22 - 6) = 9.78\text{dBm/MHz}.$$

5530 MHz=

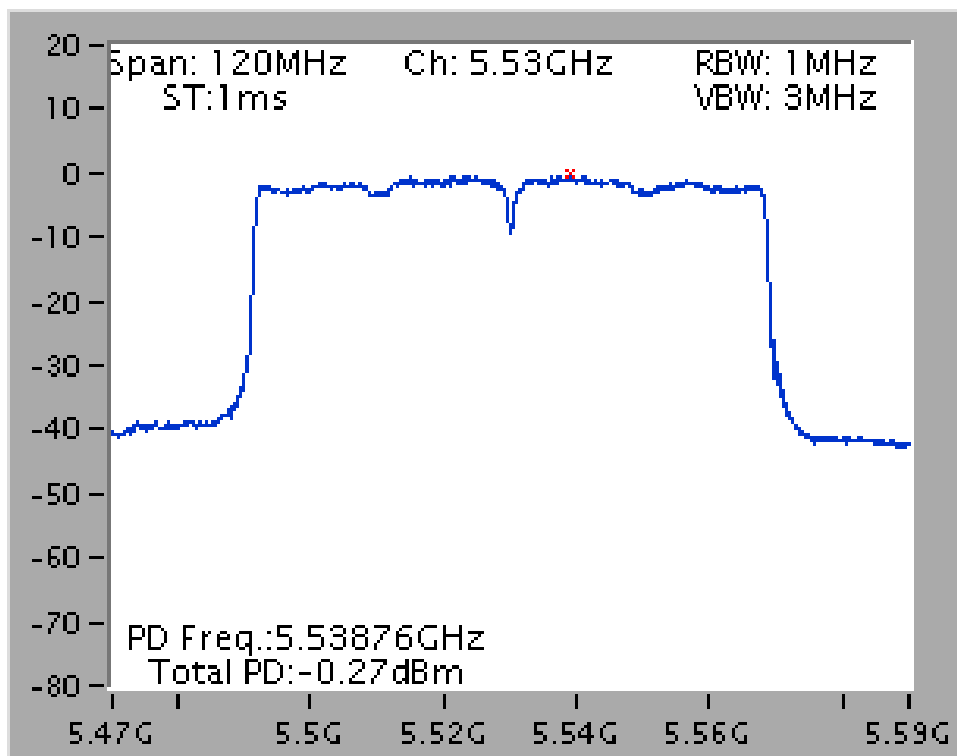
$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.46\text{dBi} > 6\text{dBi}, \text{ so Limit} = 11 - (7.46 - 6) = 9.54\text{dBm/MHz}.$$

For <Nss1MCS0, Ant. 1+2+3 (1S3T, TxBF2)>:

Power Density Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1+2+3 (1S3T, TxBF2)



Power Density Plot on Configuration IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1+2+3 (1S3T, TxBF2)



**3.5 Radiated Emissions Measurement**

**3.5.1 Limit of Unwanted emissions in the restricted bands**

Radiated emissions which fall within the restricted band specified on 15.205(a) must comply with the radiated emission limits specified as below table:

<b>Frequencies (MHz)</b>	<b>Field Strength (microvolts/meter)</b>	<b>Measurement Distance (meters)</b>
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBµV/m) = 20 log Emission level (µV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

**3.5.2 Limits of Unwanted Emission out of the restricted bands**

<b>APPLICABLE TO</b>	<b>EIRP LIMIT (dBm)</b>	<b>EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)</b>	
U-NII-1 5150~5250MHz	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)	-27dBm/MHz can be substituted by PK: 74 (dBµV/m) AV: 54 (dBµV/m)
U-NII-2A 5250~5350MHz			
U-NII-2C 5470~5725MHz			
U-NII-3 5725~5850MHz	PK: -27 (dBm/MHz) *1 PK: -17 (dBm/MHz) *2	PK: 68.2 (dBµV/m) *1 PK: 78.2 (dBµV/m) *2	

Note: \*1 beyond 10MHz of the band edge      \*2 within 10 MHz of band edge

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{100000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).$$

**3.5.3 Measuring Instruments and Setting**

Please refer to section 4 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

<b>Spectrum Parameter</b>	<b>Setting</b>
Attenuation	Auto
Start Frequency	1GHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for Peak
Detector	Peak
Trace mode	Max hold.

<b>Receiver Parameter</b>	<b>Setting</b>
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1GHz / RBW 120kHz for QP

**3.5.4 Test Procedures**

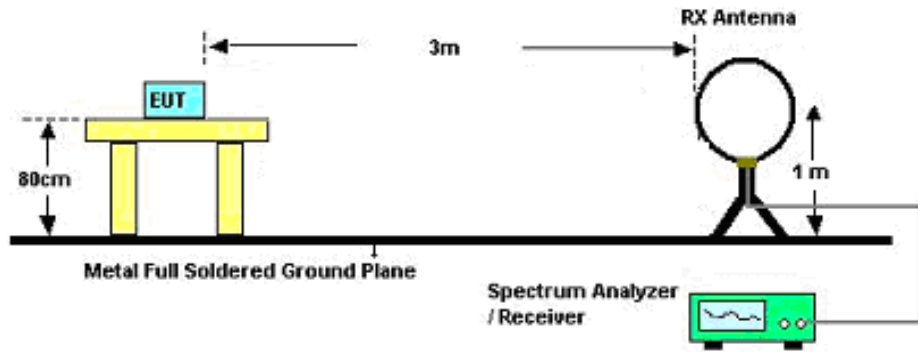
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases

where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

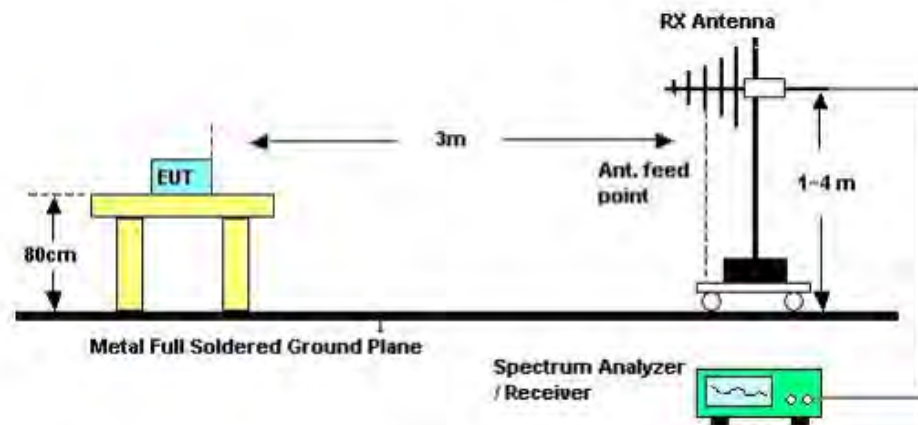
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

3.5.5 Test Setup Layout

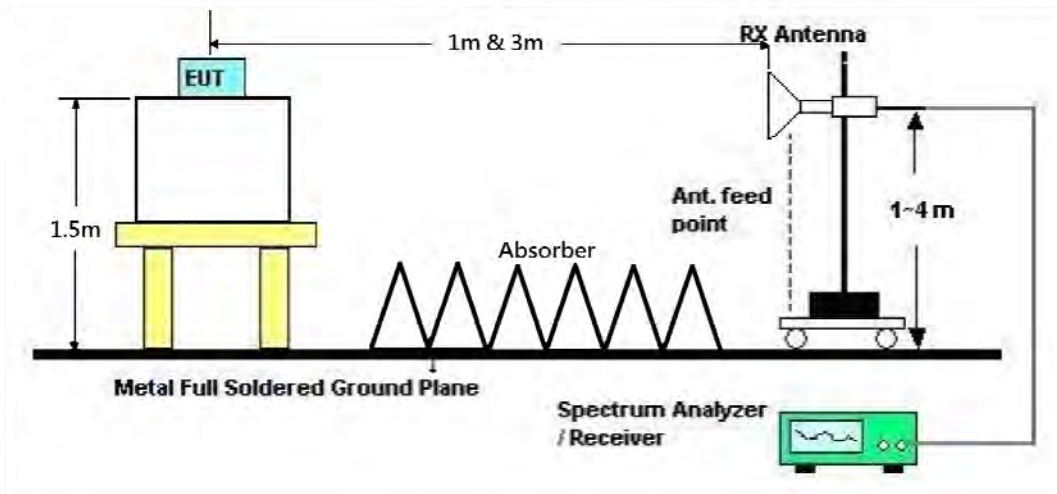
For Radiated Emissions below 30MHz (9kHz~30MHz)



For Radiated Emissions below 1GHz (30MHz~1GHz)



For Radiated Emissions above 1GHz



**3.5.6 Test Deviation**

There are no deviations with the original standard.

**3.5.7 EUT Operation during Test**

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

The EUT was programmed to be in beamforming transmitting mode.



**3.5.8 Results of Radiated Emissions (9kHz~30MHz)**

<b>Frequency Range</b>	9kHz~30MHz	<b>Test Site No.</b>	03CH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Akina Chiu	<b>Configurations</b>	11ac(80MHz)
<b>Test Date</b>	Jul. 16, 2015		

<b>Freq. (MHz)</b>	<b>Level (dBuV)</b>	<b>Over Limit (dB)</b>	<b>Limit Line (dBuV)</b>	<b>Remark</b>
-	-	-	-	See Note

**Note:**

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

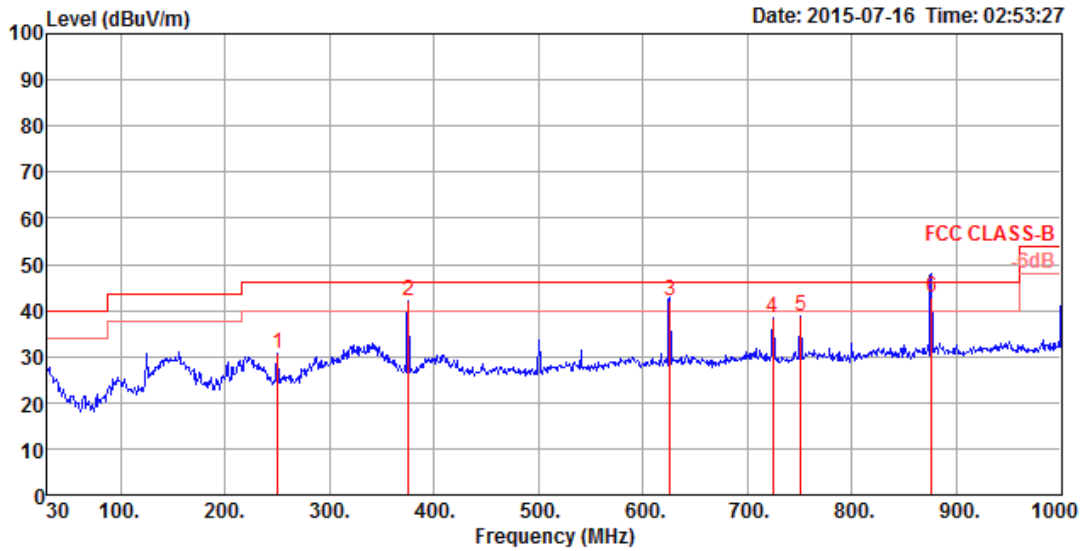
Distance extrapolation factor =  $40 \log(\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

3.5.9 Results of Radiated Emissions (30MHz~1GHz)

Frequency Range	30MHz~1GHz	Test Site No.	03CH01-CB
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Configurations	CTX

Horizontal



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	250.19	30.77	46.00	-15.23	48.79	1.38	12.90	32.30	100	133	Peak	HORIZONTAL
2	375.32	42.01	46.00	-3.99	56.72	1.68	15.93	32.32	100	254	QP	HORIZONTAL
3	625.58	41.97	46.00	-4.03	52.93	2.08	19.36	32.40	125	243	QP	HORIZONTAL
4	724.52	38.51	46.00	-7.49	48.61	2.18	20.05	32.33	100	232	Peak	HORIZONTAL
5	750.71	38.67	46.00	-7.33	48.35	2.22	20.40	32.30	100	314	Peak	HORIZONTAL
6	875.84	42.85	46.00	-3.15	50.81	2.40	21.50	31.86	100	314	QP	HORIZONTAL

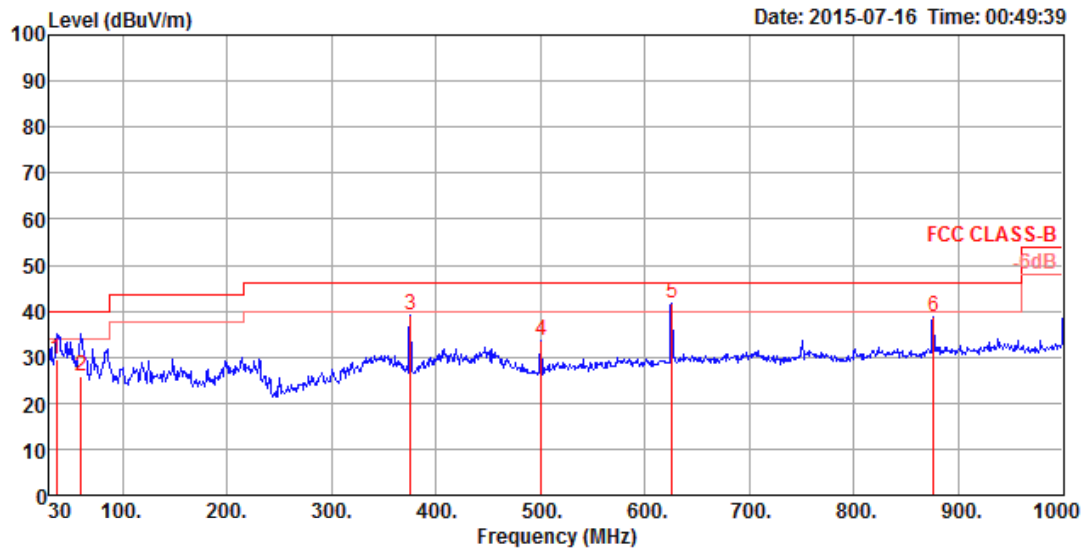
Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Vertical



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	36.79	29.69	40.00	-10.31	45.45	0.65	15.99	32.40	100	24 QP	VERTICAL
2	60.07	25.79	40.00	-14.21	50.52	0.77	6.90	32.40	150	348 QP	VERTICAL
3	375.32	39.18	46.00	-6.82	53.89	1.68	15.93	32.32	150	265 Peak	VERTICAL
4	500.45	33.65	46.00	-12.35	46.27	1.90	17.83	32.35	100	119 Peak	VERTICAL
5	625.58	41.58	46.00	-4.42	52.54	2.08	19.36	32.40	100	282 QP	VERTICAL
6	875.84	38.71	46.00	-7.29	46.67	2.40	21.50	31.86	150	337 Peak	VERTICAL

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

**3.5.10 Results of Emission not in Restricted Bands**

Following channel(s) was (were) selected for the final test as listed below.

For Non-Beamforming

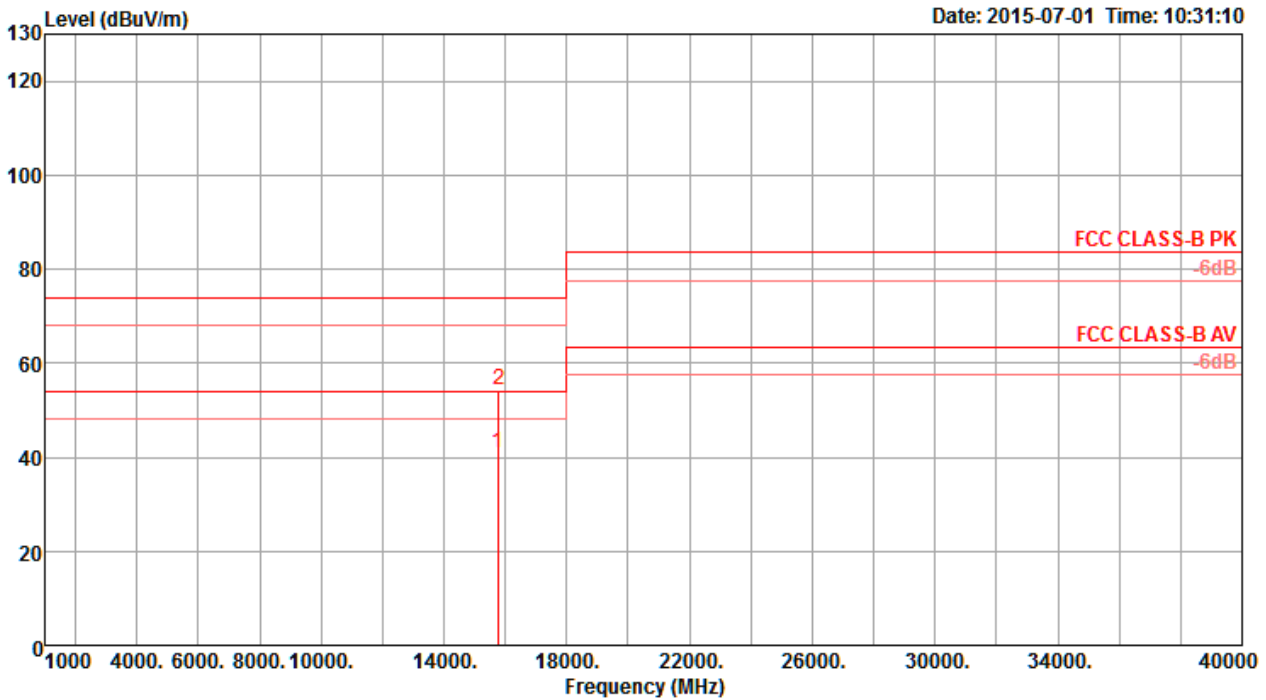
Mode	TX Antenna	Test Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	Ant. 1 (1S1T)	52, 60, 64 100, 116, 140	OFDM	BPSK	6
802.11a	Ant. 1+2+3 (1S3T, CDD2)	52, 60, 64 100, 116, 140	OFDM	BPSK	6
802.11ac 20MHz	Ant. 1 (1S1T)	52, 60, 64 100, 116, 140	OFDM	BPSK	MCS0 (6.5)
802.11ac 20MHz	Ant. 1+2+3 (1S3T, CDD2)	52, 60, 64 100, 116, 140	OFDM	BPSK	MCS0 (6.5)
802.11ac 40MHz	Ant. 1 (1S1T)	54, 62 102, 110, 134	OFDM	BPSK	MCS0 (13.5)
802.11ac 40MHz	Ant. 1+2+3 (1S3T, CDD2)	54, 62 102, 110, 134	OFDM	BPSK	MCS0 (13.5)
802.11ac 80MHz	Ant. 1 (1S1T)	58, 106	OFDM	BPSK	MCS0 (29.3)
802.11ac 80MHz	Ant. 1+2+3 (1S3T, CDD2)	58, 106	OFDM	BPSK	MCS0 (29.3)

For Beamforming

Mode	TX Antenna	Test Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11ac 20MHz	Ant. 1+2+3 (1S3T, TxBF2)	52, 60, 64 100, 116, 140	OFDM	BPSK	MCS0 (6.5)
802.11ac 40MHz	Ant. 1+2+3 (1S3T, TxBF2)	54, 62 102, 110, 134	OFDM	BPSK	MCS0 (13.5)
802.11ac 80MHz	Ant. 1+2+3 (1S3T, TxBF2)	58, 106	OFDM	BPSK	MCS0 (29.3)

For Non-Beamforming

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH52 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15770.00	40.94	54.00	-13.06	29.52	7.64	38.60	34.82	154	143	Average	HORIZONTAL
2	15782.08	54.14	74.00	-19.86	42.71	7.64	38.63	34.84	154	143	Peak	HORIZONTAL

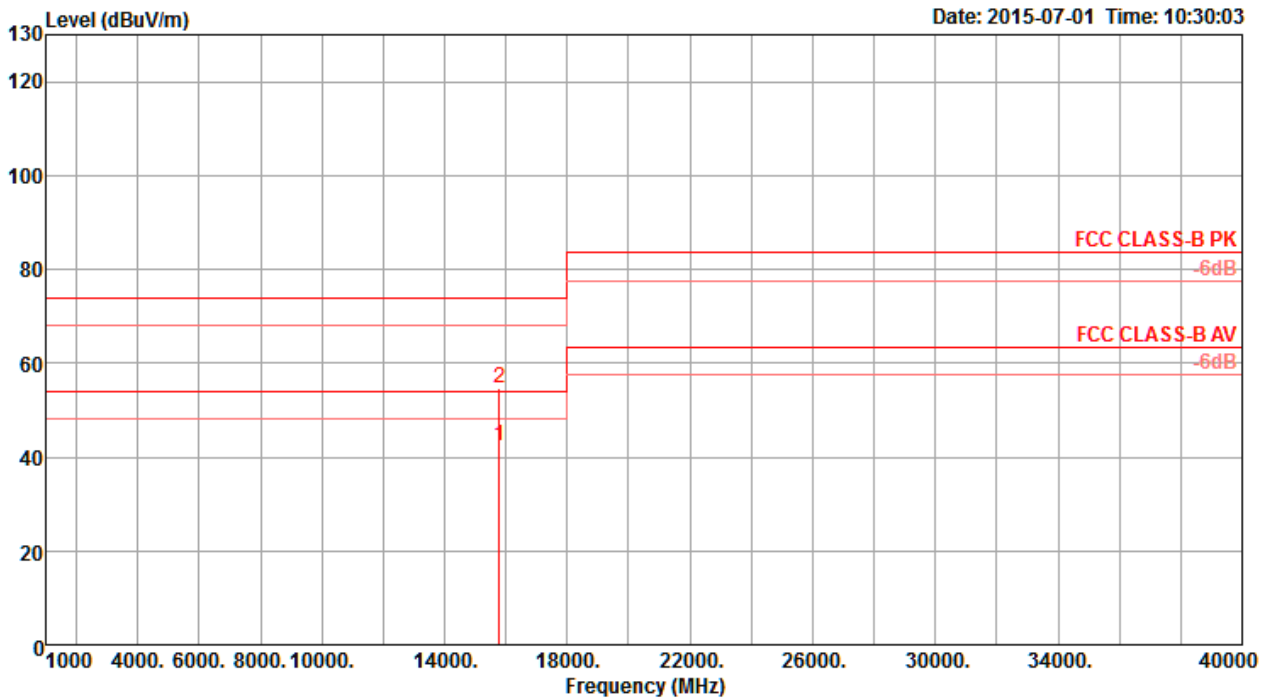
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH52 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15770.68	42.29	54.00	-11.71	30.87	7.64	38.60	34.82	266	109	Average	VERTICAL
2	15773.72	54.63	74.00	-19.37	43.21	7.64	38.60	34.82	266	109	Peak	VERTICAL

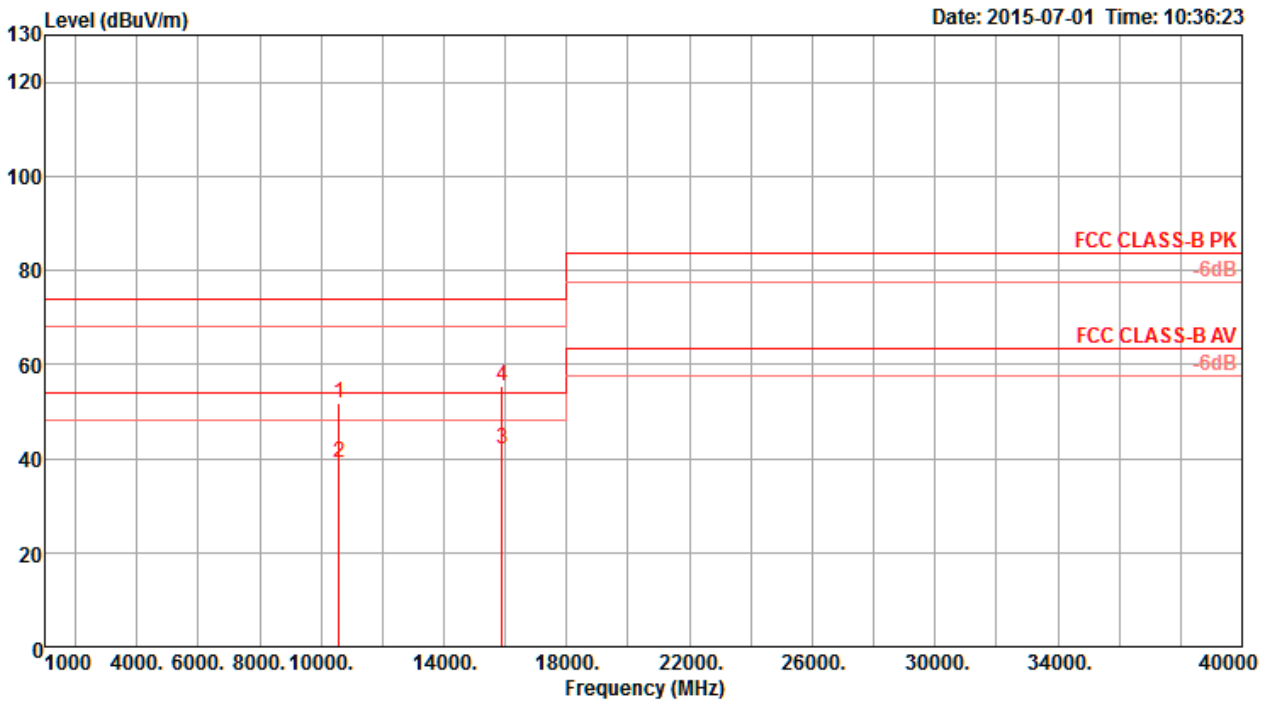
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

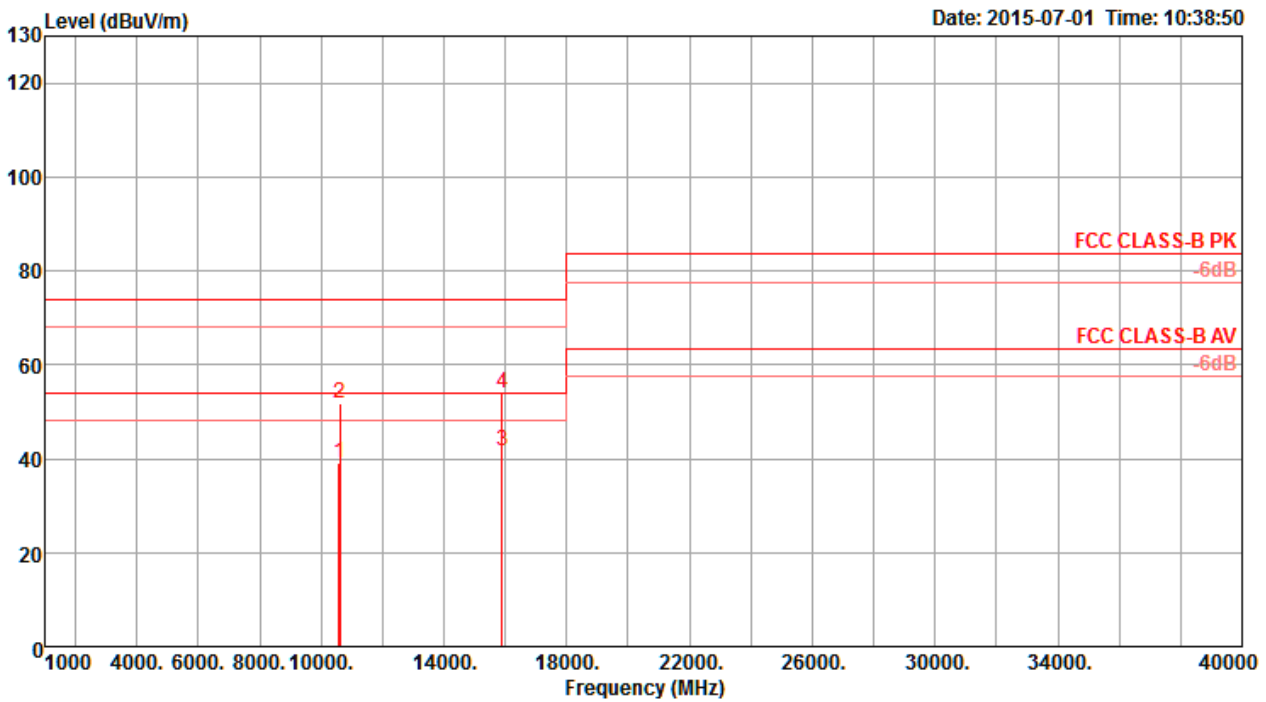
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH60 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10590.12	51.89	74.00	-22.11	41.86	6.20	38.78	34.95	228	126	Peak	HORIZONTAL
2	10592.80	39.10	54.00	-14.90	29.07	6.20	38.78	34.95	228	126	Average	HORIZONTAL
3	15890.00	41.98	54.00	-12.02	30.42	7.68	38.81	34.93	279	113	Average	HORIZONTAL
4	15892.96	55.56	74.00	-18.44	44.00	7.68	38.81	34.93	279	113	Peak	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH60 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10595.04	39.18	54.00	-14.82	29.15	6.20	38.78	34.95	243	161	Average	VERTICAL
2	10600.36	51.77	74.00	-22.23	41.73	6.21	38.78	34.95	243	161	Peak	VERTICAL
3	15890.12	41.57	54.00	-12.43	30.01	7.68	38.81	34.93	341	157	Average	VERTICAL
4	15908.28	53.94	74.00	-20.06	42.36	7.69	38.84	34.95	341	157	Peak	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

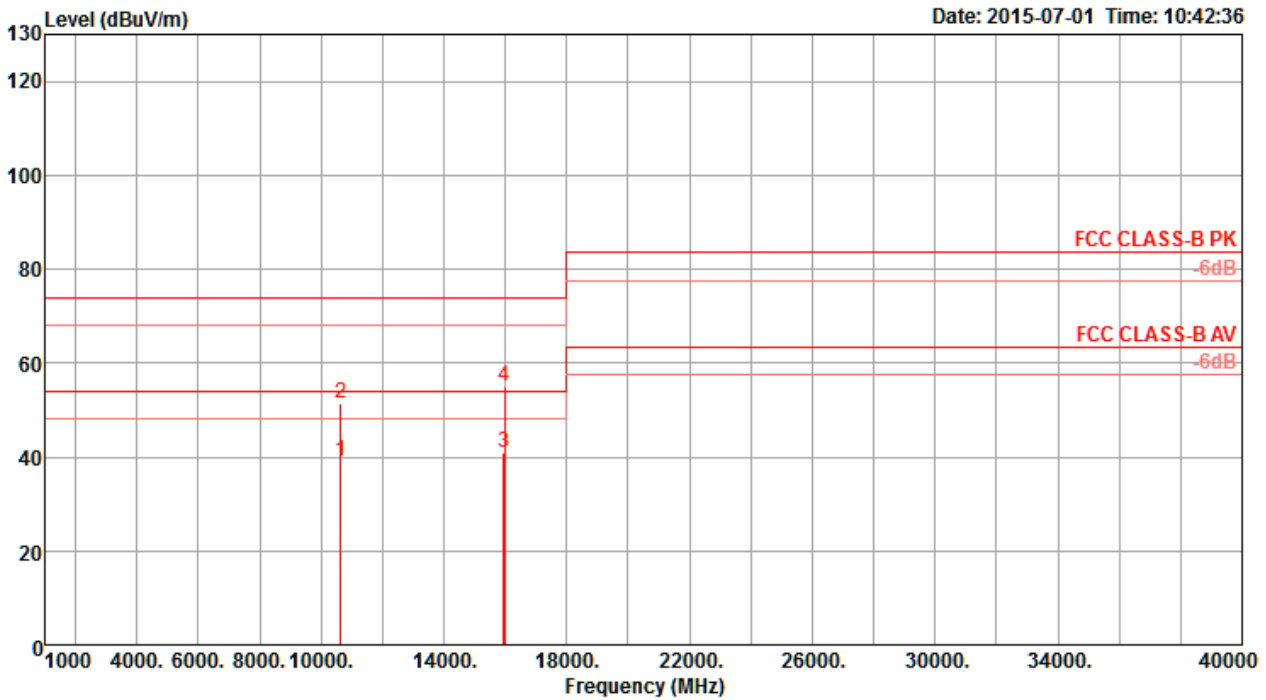
Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH64 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10631.64	38.98	54.00	-15.02	28.89	6.23	38.77	34.91	147	127	Average	HORIZONTAL
2	10636.00	51.41	74.00	-22.59	41.32	6.23	38.77	34.91	147	127	Peak	HORIZONTAL
3	15950.00	40.89	54.00	-13.11	29.26	7.70	38.91	34.98	125	123	Average	HORIZONTAL
4	15967.68	54.91	74.00	-19.09	43.27	7.70	38.94	35.00	125	123	Peak	HORIZONTAL

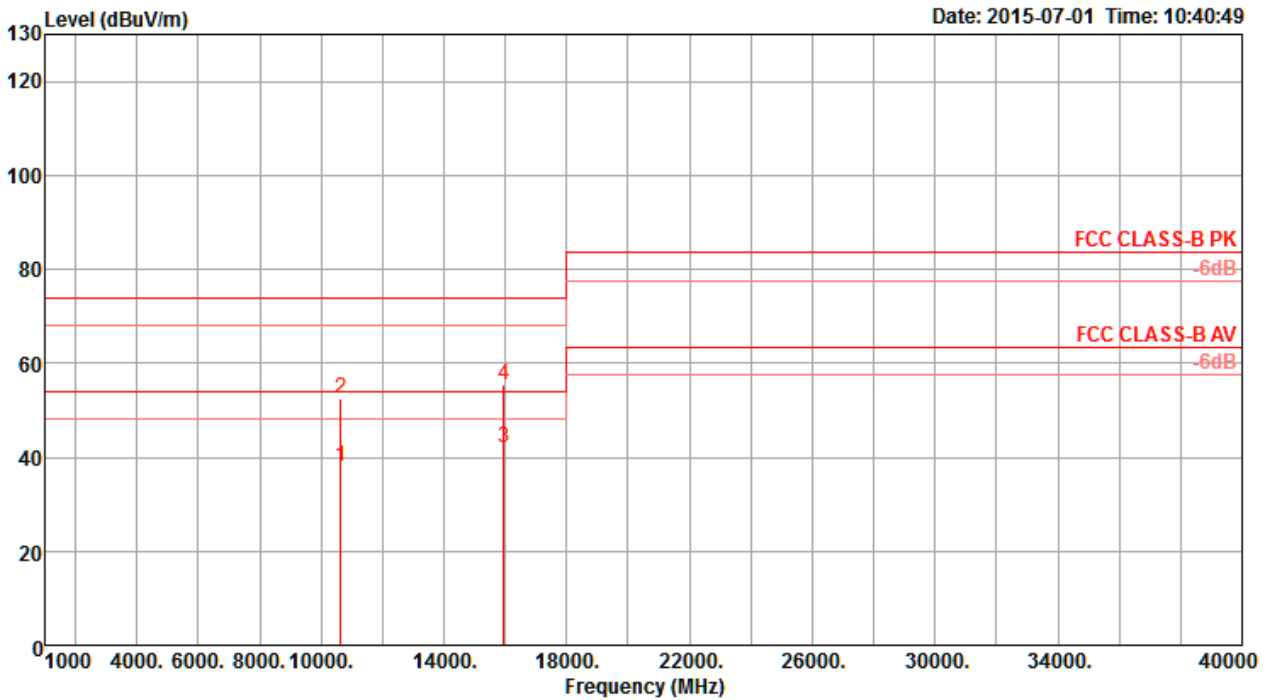
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH64 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10633.16	38.06	54.00	-15.94	27.97	6.23	38.77	34.91	216	128	Average	VERTICAL
2	10633.36	52.65	74.00	-21.35	42.56	6.23	38.77	34.91	216	128	Peak	VERTICAL
3	15956.28	42.00	54.00	-12.00	30.36	7.70	38.94	35.00	161	113	Average	VERTICAL
4	15961.44	55.42	74.00	-18.58	43.78	7.70	38.94	35.00	161	113	Peak	VERTICAL

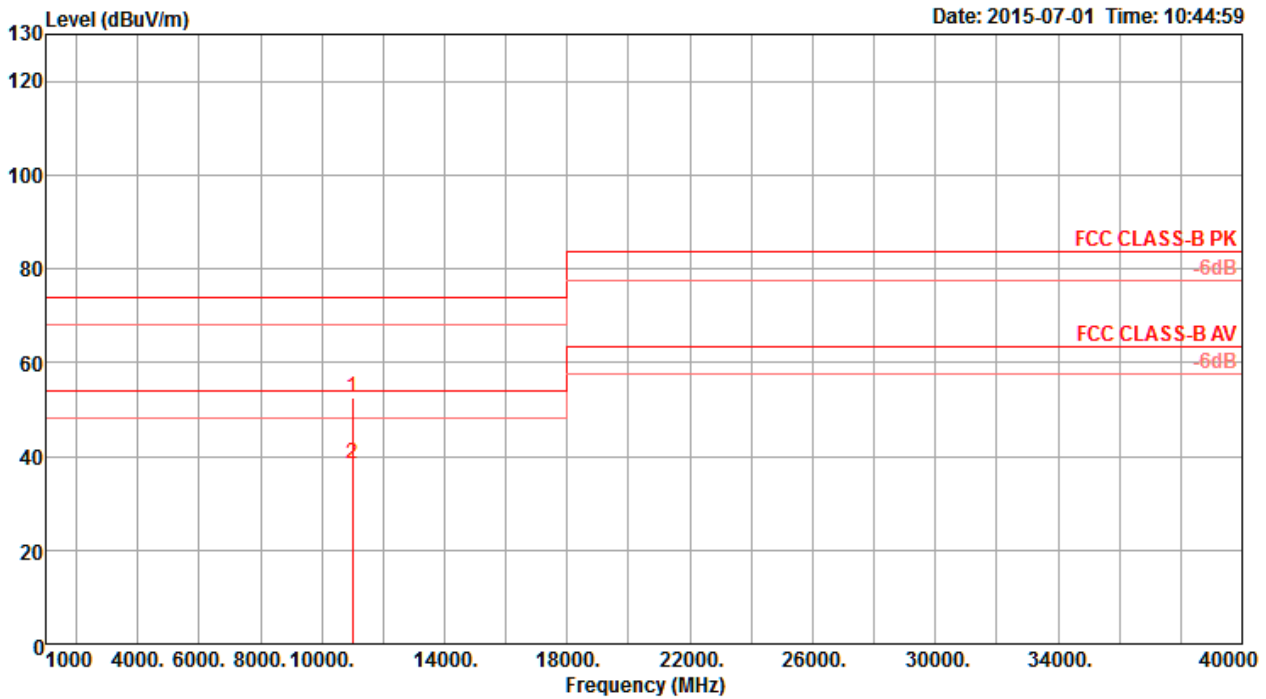
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH100 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10993.08	52.64	74.00	-21.36	42.20	6.40	38.70	34.66	157	114	Peak	HORIZONTAL
2	11000.96	38.37	54.00	-15.63	27.93	6.40	38.70	34.66	157	114	Average	HORIZONTAL

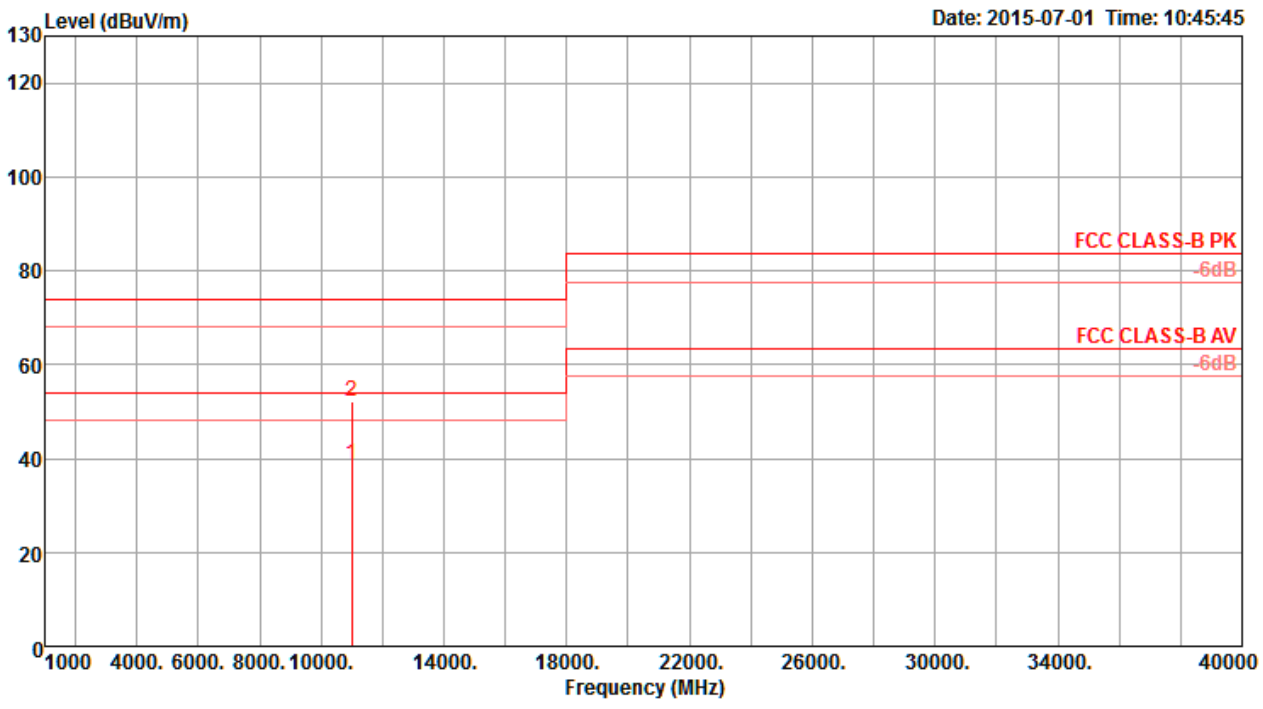
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH100 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10993.04	38.67	54.00	-15.33	28.23	6.40	38.70	34.66	93	147	Average	VERTICAL
2	11008.88	52.15	74.00	-21.85	41.71	6.40	38.70	34.66	93	147	Peak	VERTICAL

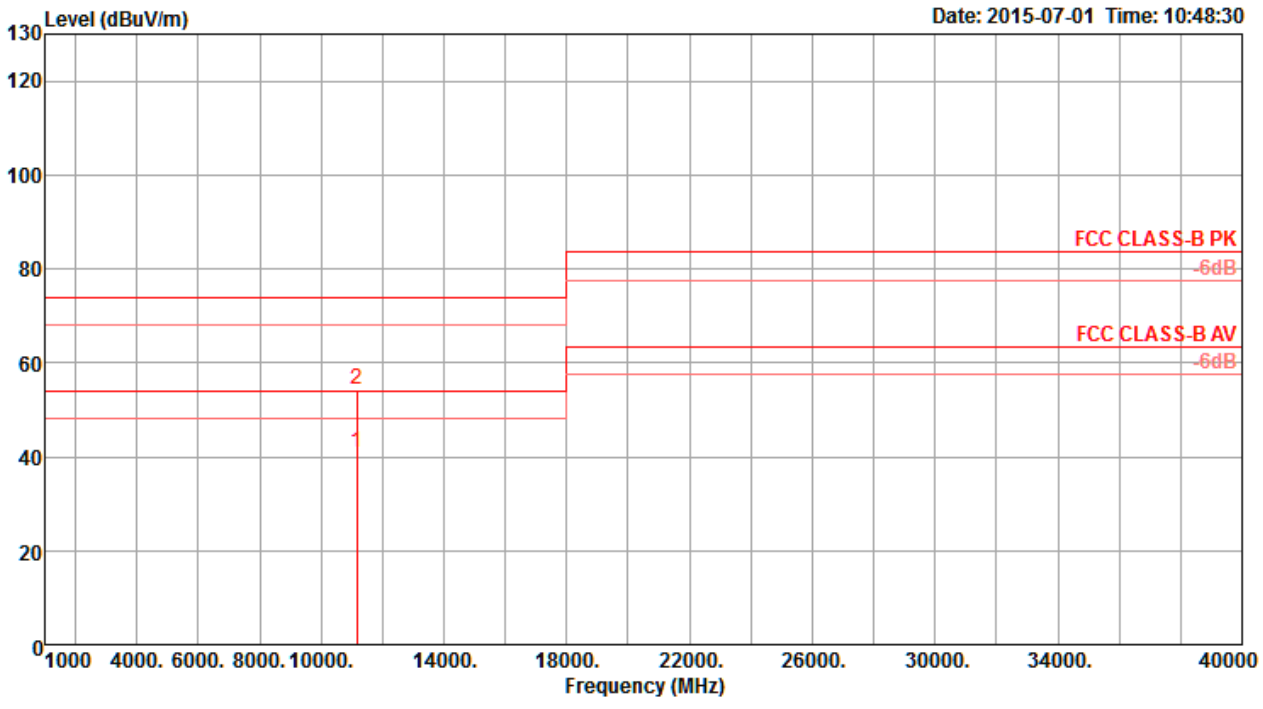
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH116 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11161.76	41.05	54.00	-12.95	30.56	6.44	38.70	34.65	309	118	Average	HORIZONTAL
2	11162.52	54.20	74.00	-19.80	43.71	6.44	38.70	34.65	309	118	Peak	HORIZONTAL

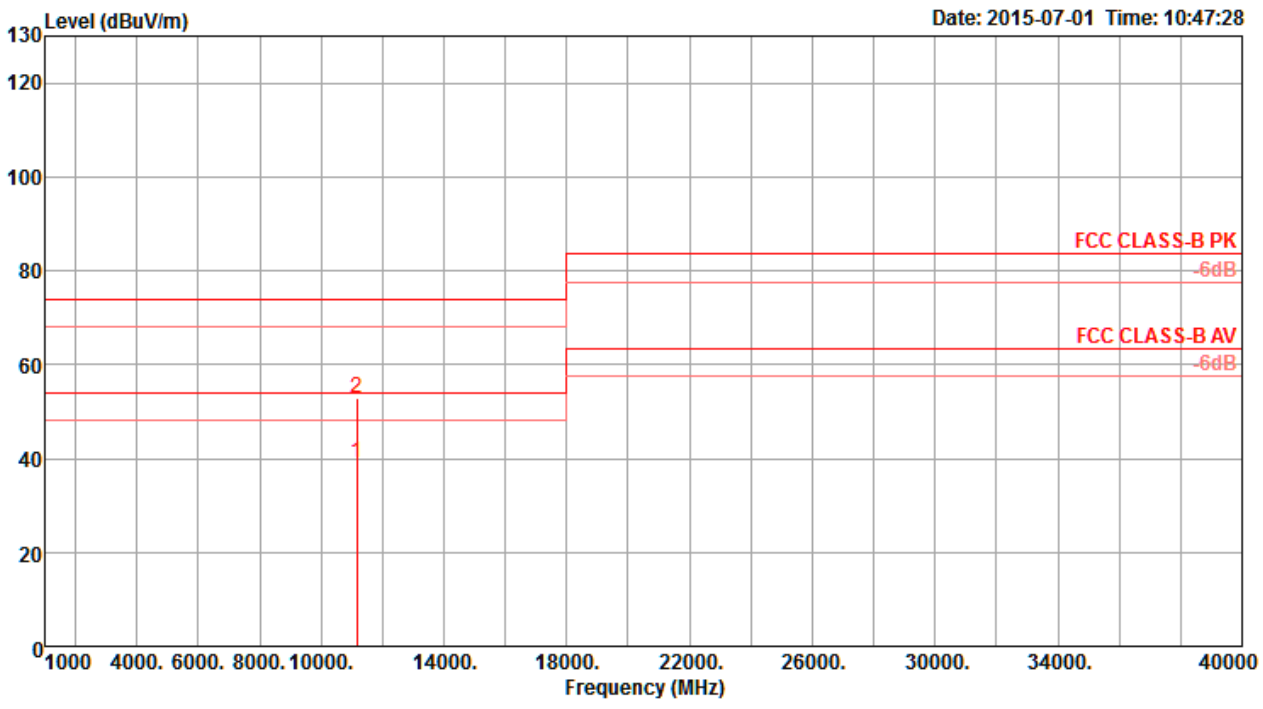
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH116 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11159.12	38.98	54.00	-15.02	28.49	6.44	38.70	34.65	287	103	Average	VERTICAL
2	11160.32	52.95	74.00	-21.05	42.46	6.44	38.70	34.65	287	103	Peak	VERTICAL

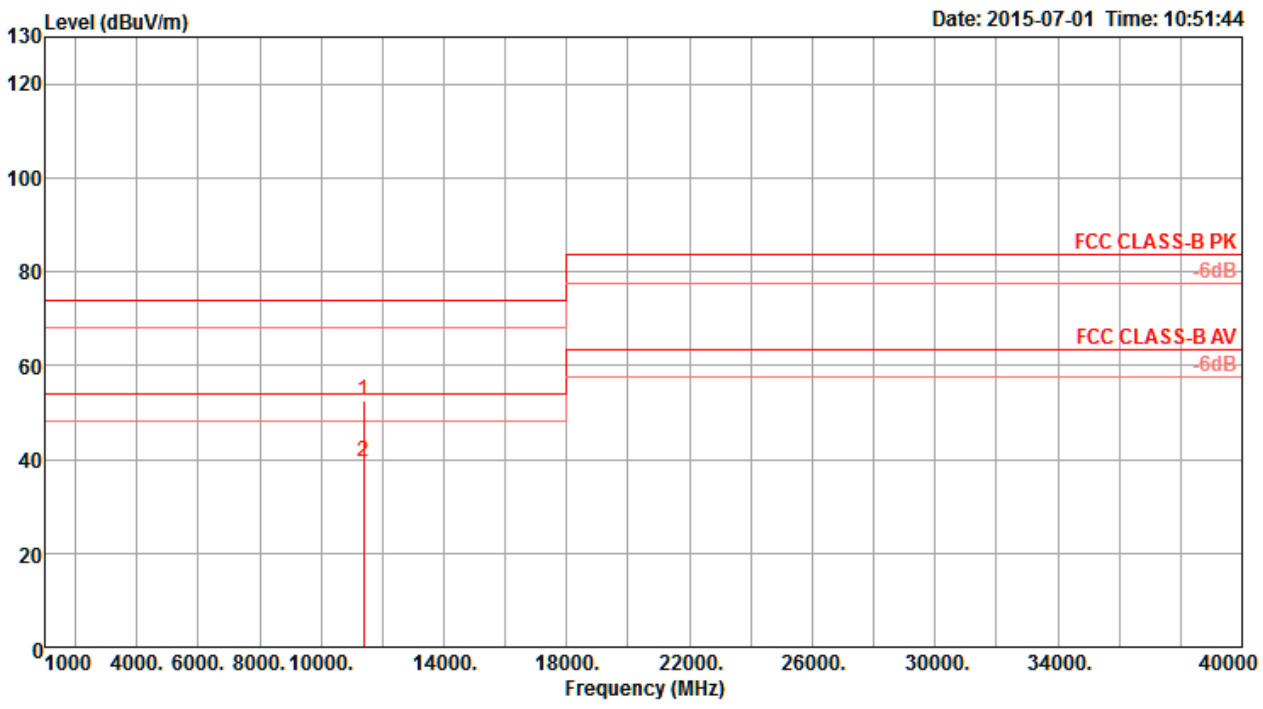
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

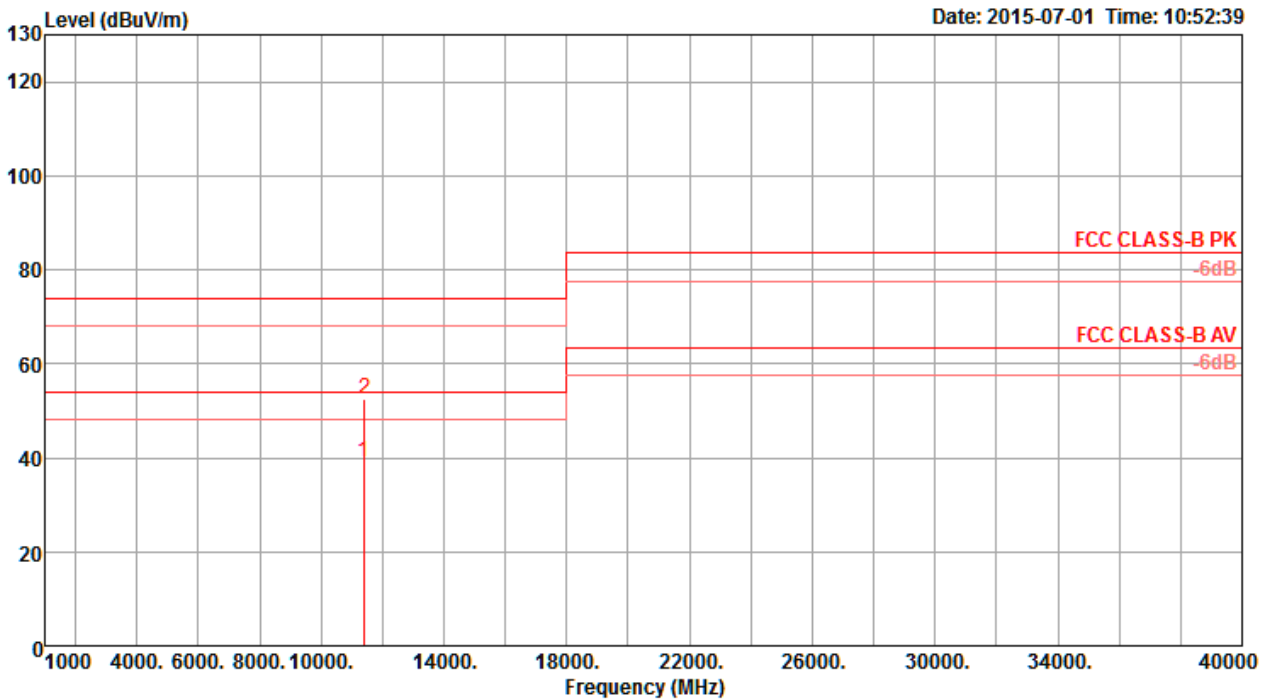
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH140 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11396.36	52.54	74.00	-21.46	41.96	6.51	38.70	34.63	309	100	Peak	HORIZONTAL
2	11396.48	39.57	54.00	-14.43	28.99	6.51	38.70	34.63	309	100	Average	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH140 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11396.60	39.08	54.00	-14.92	28.50	6.51	38.70	34.63	265	103	Average	VERTICAL
2	11405.20	52.56	74.00	-21.44	41.98	6.51	38.70	34.63	265	103	Peak	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

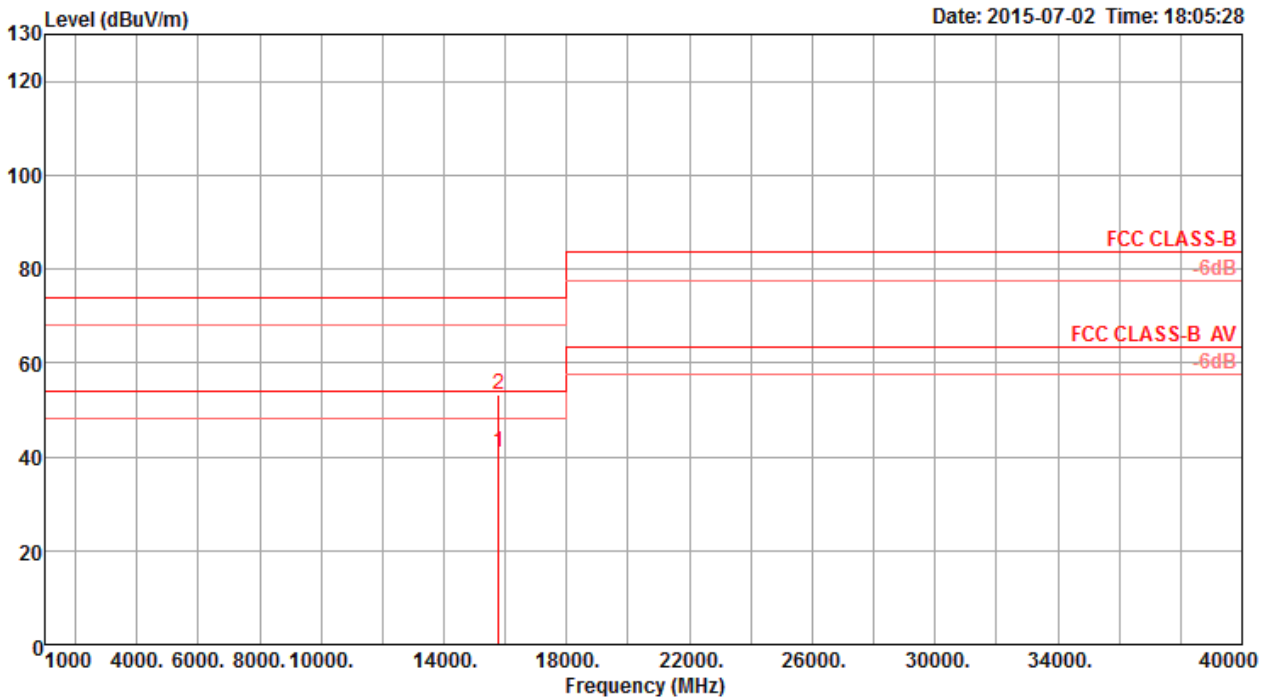
Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



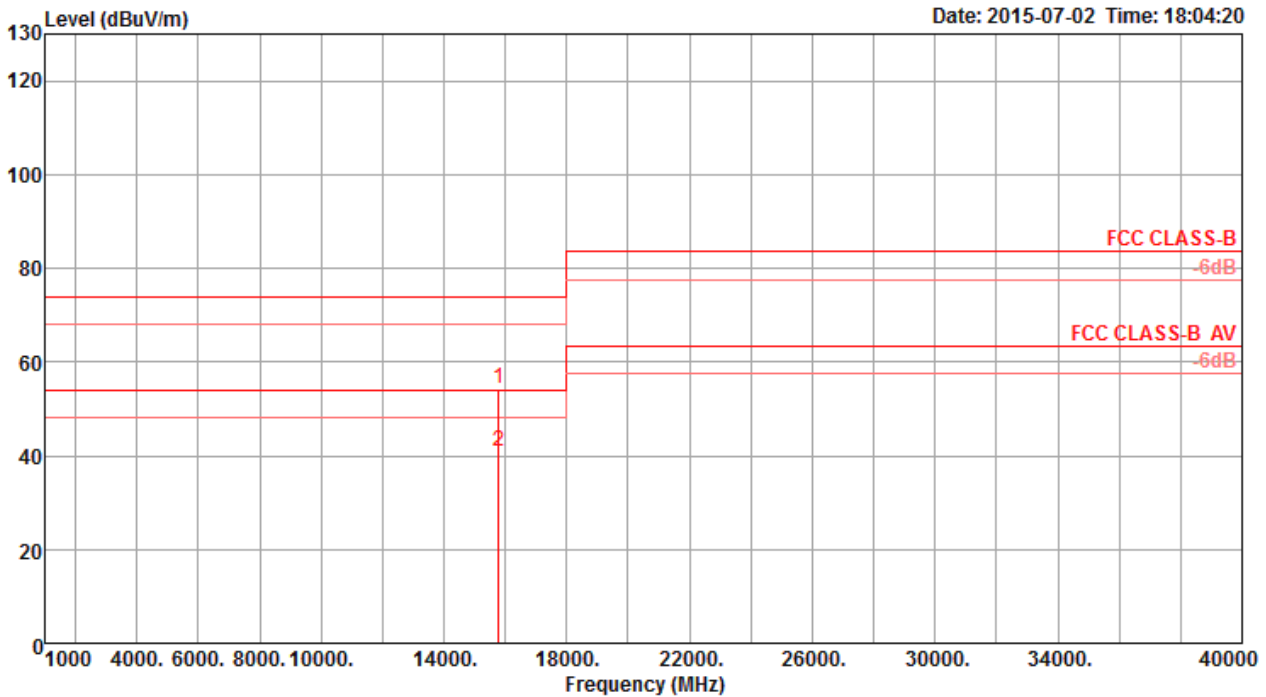
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH52 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15771.96	40.79	54.00	-13.21	27.39	10.80	37.91	35.31	159	352	HORIZONTAL
2	15778.64	53.33	74.00	-20.67	39.94	10.80	37.91	35.32	159	352	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

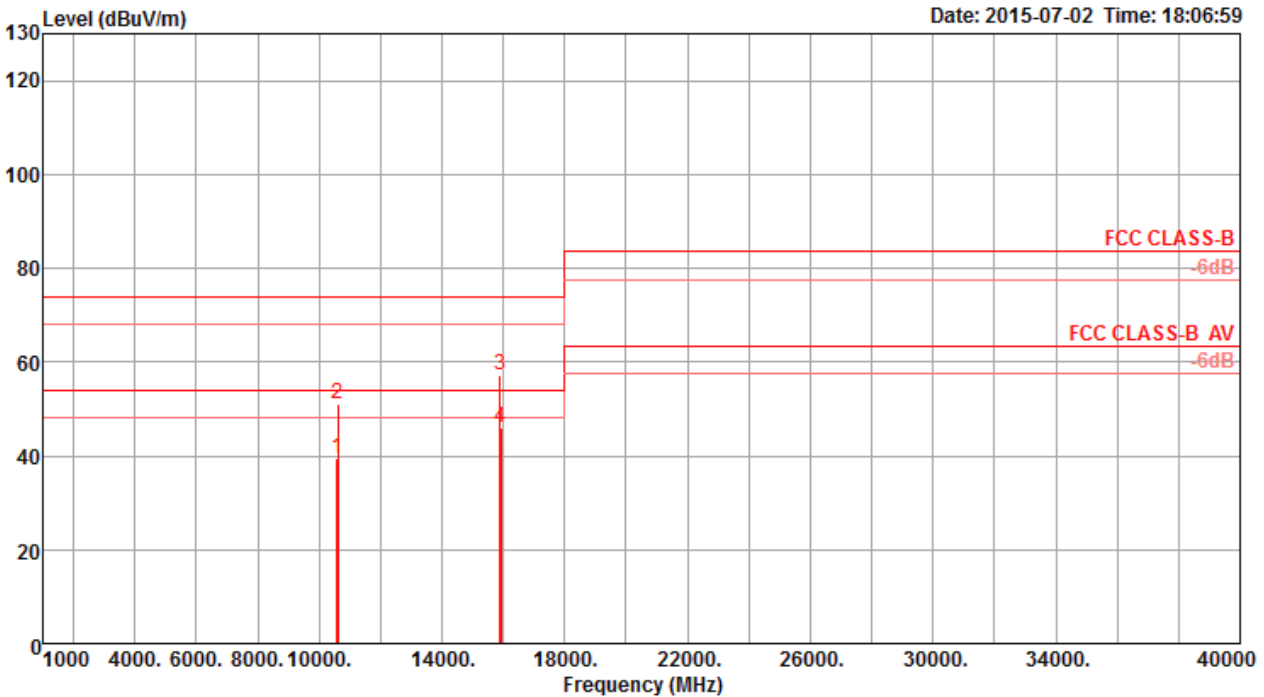
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH52 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15781.96	54.45	74.00	-19.55	41.08	10.80	37.89	35.32 Peak	168	40	VERTICAL
2	15787.28	40.76	54.00	-13.24	27.39	10.80	37.89	35.32 Average	168	40	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 60 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10590.48	39.43	54.00	-14.57	27.19	8.62	38.58	34.96	Average	141	203 HORIZONTAL
2	10599.60	51.01	74.00	-22.99	38.75	8.64	38.58	34.96	Peak	141	203 HORIZONTAL
3	15892.12	57.15	74.00	-16.85	43.96	10.81	37.74	35.36	Peak	155	148 HORIZONTAL
4	15909.08	45.84	54.00	-8.16	32.69	10.81	37.72	35.38	Average	155	148 HORIZONTAL

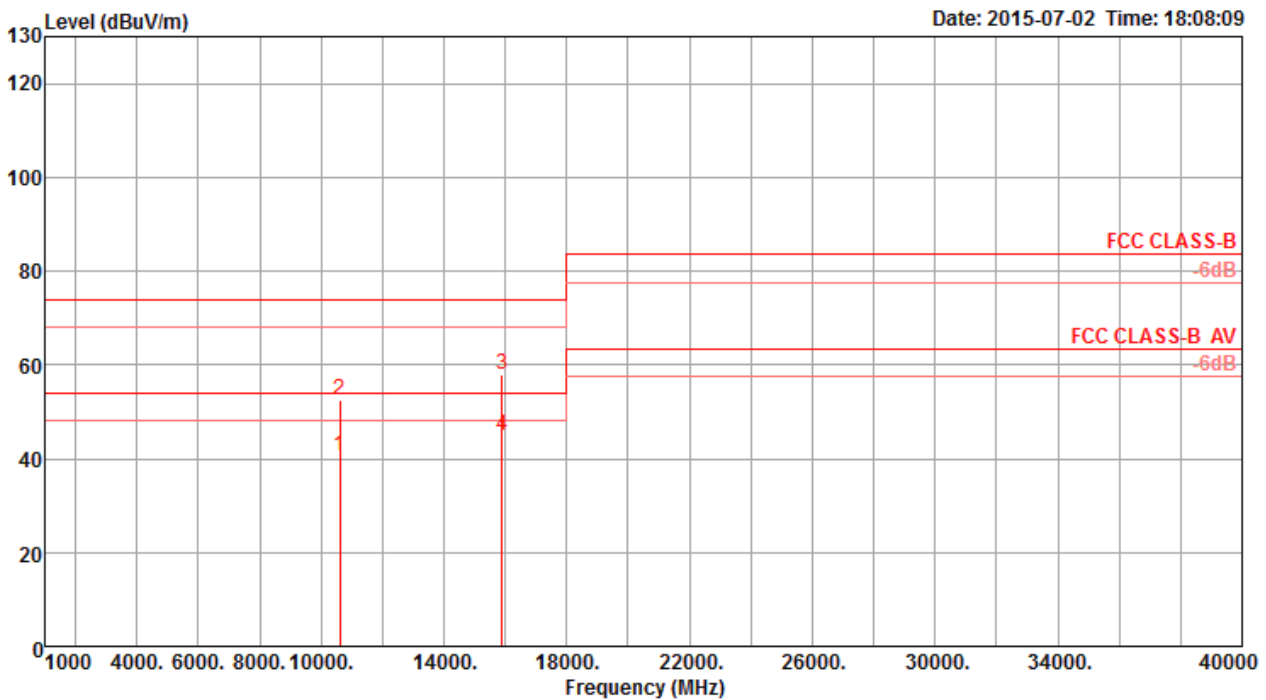
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

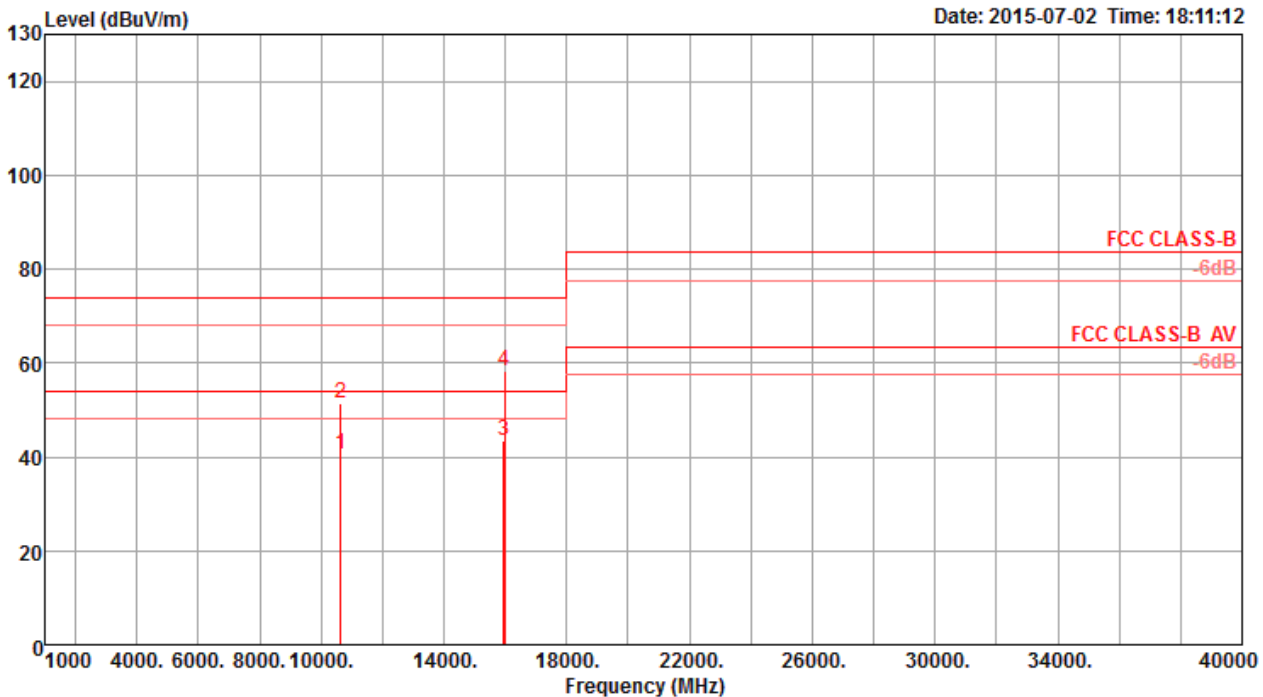
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 60 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10602.32	40.52	54.00	-13.48	28.25	8.64	38.58	34.95 Average	124	152	VERTICAL
2	10605.40	52.59	74.00	-21.41	40.32	8.64	38.58	34.95 Peak	124	152	VERTICAL
3	15893.36	57.96	74.00	-16.04	44.77	10.81	37.74	35.36 Peak	161	174	VERTICAL
4	15907.20	44.83	54.00	-9.17	31.68	10.81	37.72	35.38 Average	161	174	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

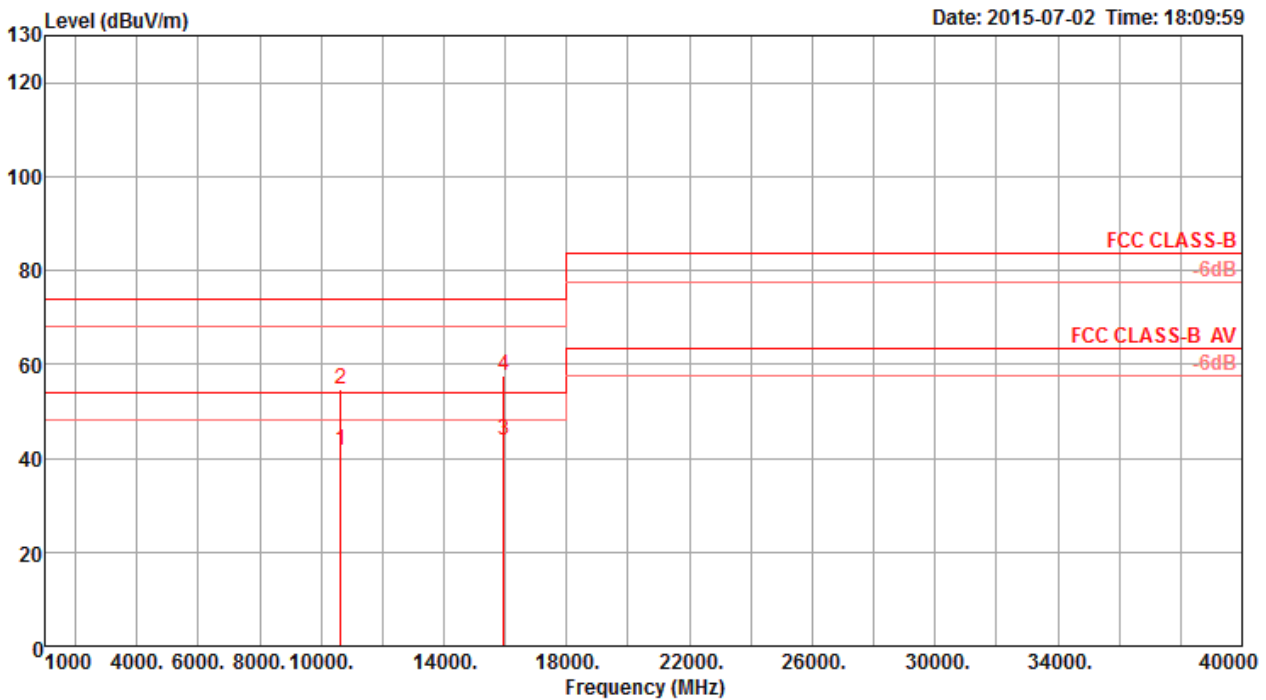
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 64 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10632.08	40.54	54.00	-13.46	28.25	8.66	38.57	34.94	157	122	HORIZONTAL
2	10645.88	51.25	74.00	-22.75	38.96	8.66	38.57	34.94	157	122	HORIZONTAL
3	15953.00	43.45	54.00	-10.55	30.37	10.82	37.65	35.39	166	205	HORIZONTAL
4	15967.32	58.25	74.00	-15.75	45.18	10.82	37.65	35.40	166	205	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

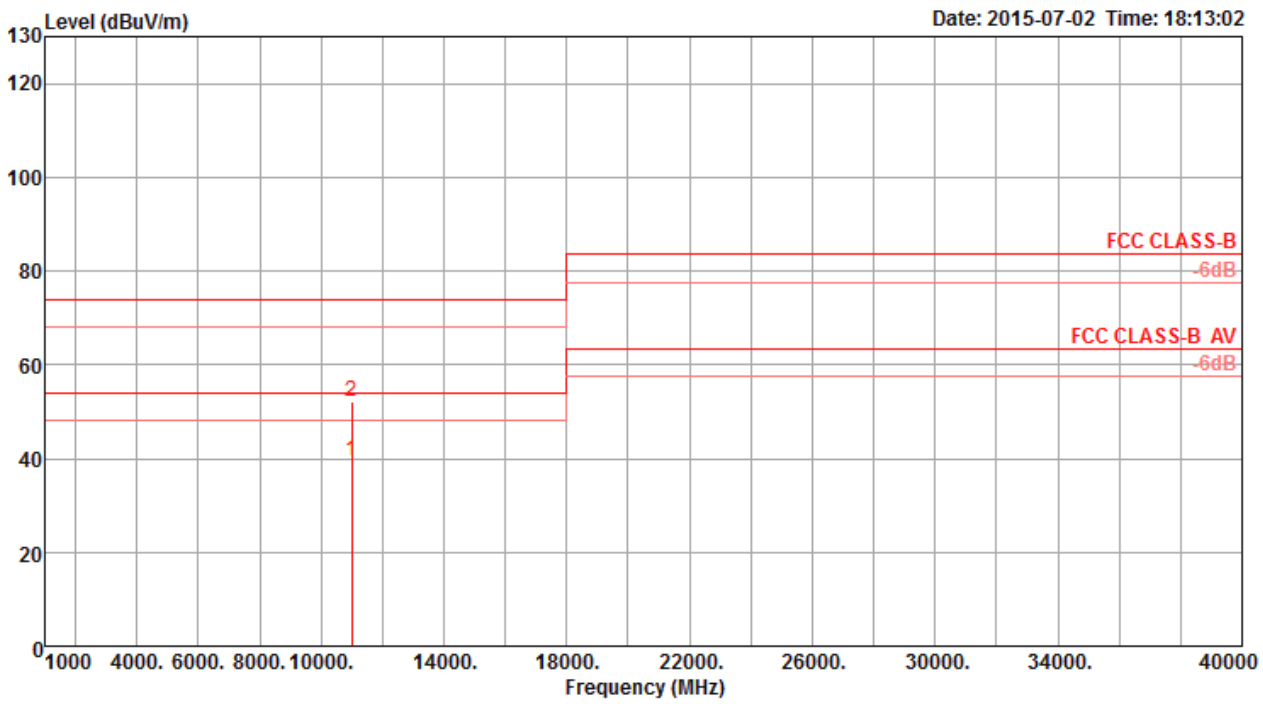
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 64 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10638.84	41.50	54.00	-12.50	29.21	8.66	38.57	34.94 Average	140	224	VERTICAL
2	10647.92	54.73	74.00	-19.27	42.43	8.67	38.57	34.94 Peak	140	224	VERTICAL
3	15951.72	43.65	54.00	-10.35	30.57	10.82	37.65	35.39 Average	163	242	VERTICAL
4	15955.44	57.47	74.00	-16.53	44.39	10.82	37.65	35.39 Peak	163	242	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

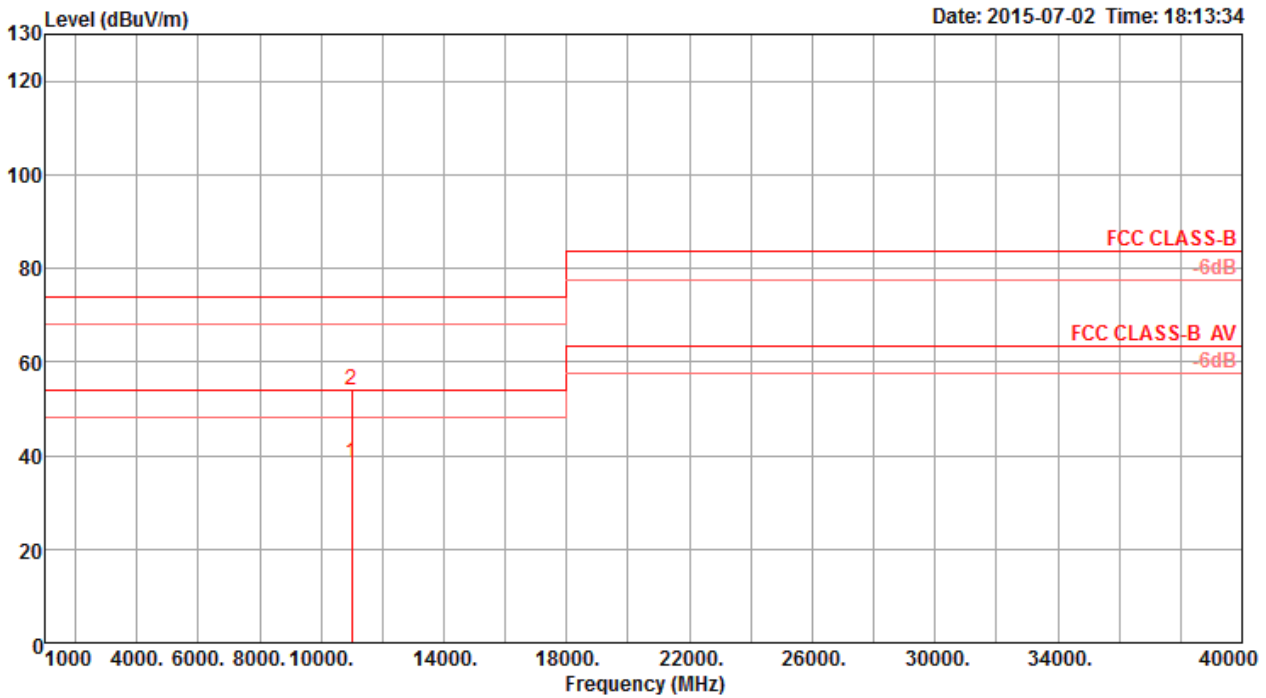
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 100 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10990.48	39.47	54.00	-14.53	26.83	8.93	38.50	34.79	Average	191	236	HORIZONTAL
2	10995.64	52.07	74.00	-21.93	39.43	8.93	38.50	34.79	Peak	191	236	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 100 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V

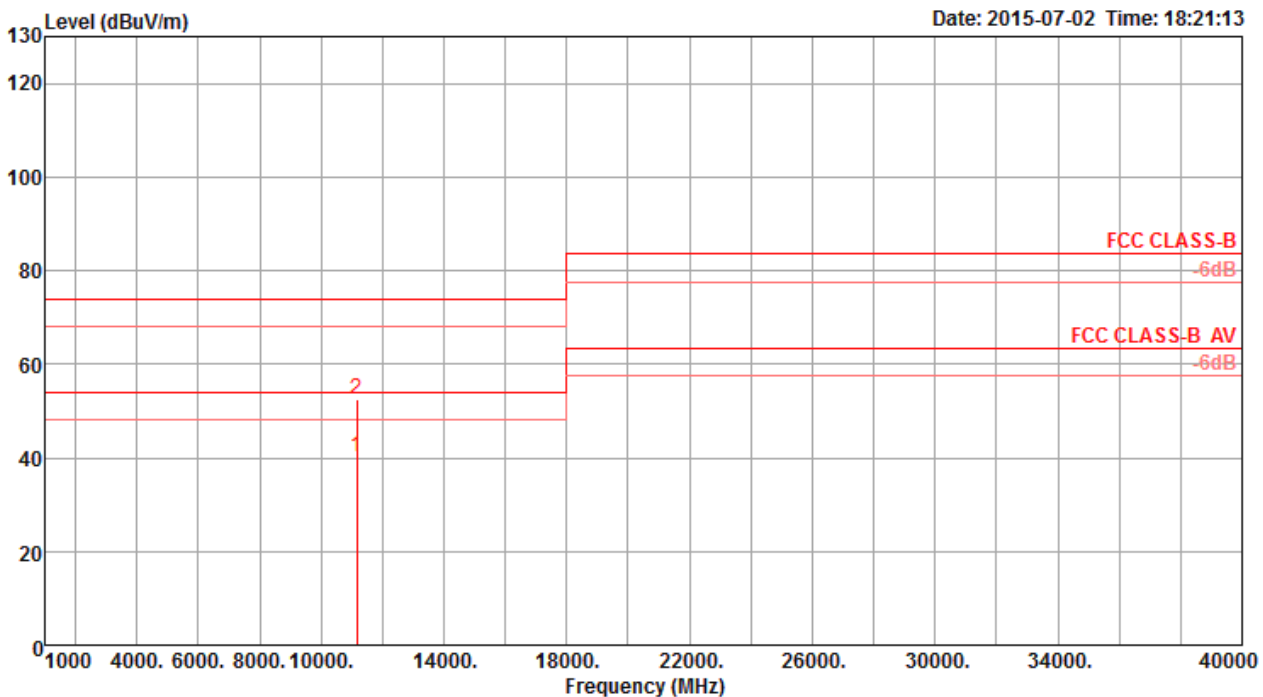


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10993.56	38.47	54.00	-15.53	25.83	8.93	38.50	34.79	Average	163	175	VERTICAL
2	11006.80	53.98	74.00	-20.02	41.31	8.94	38.52	34.79	Peak	163	175	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



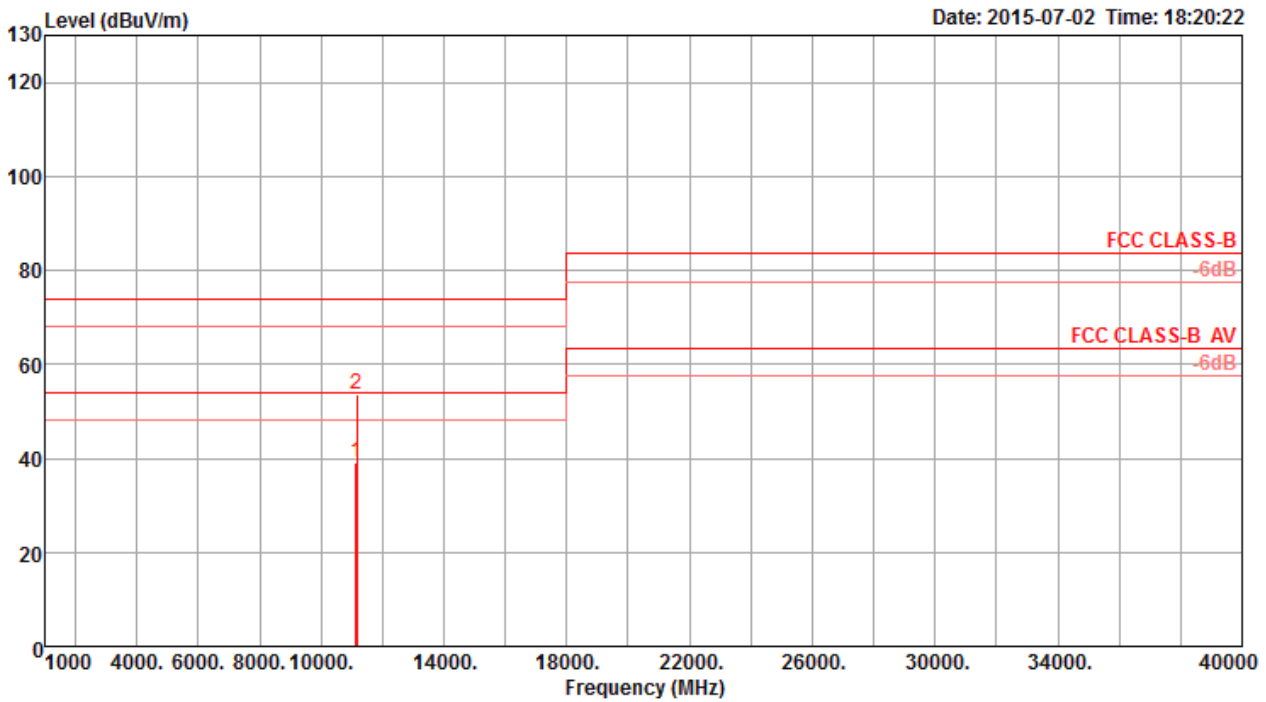
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 116 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11152.44	40.21	54.00	-13.79	27.29	9.03	38.68	34.79	149	322	HORIZONTAL
2	11161.92	52.51	74.00	-21.49	39.56	9.04	38.70	34.79	149	322	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

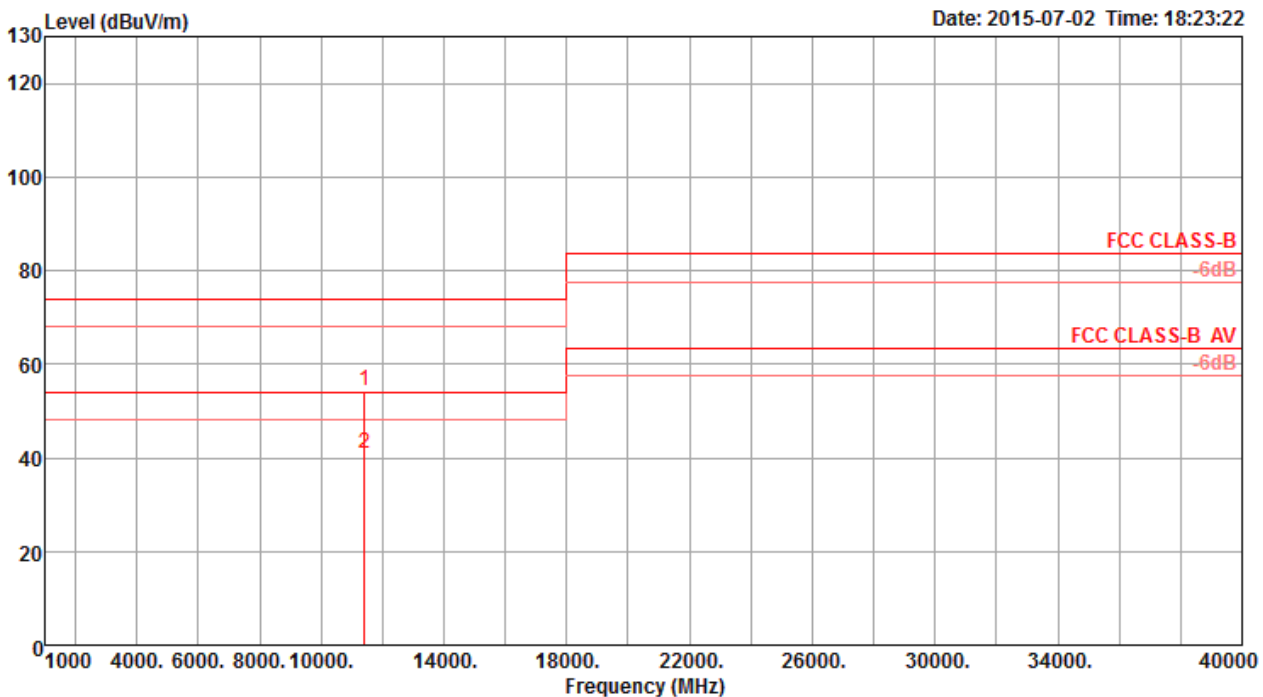
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 116 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11150.84	39.21	54.00	-14.79	26.29	9.03	38.68	34.79	142	284	VERTICAL
2	11160.48	53.61	74.00	-20.39	40.66	9.04	38.70	34.79	142	284	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

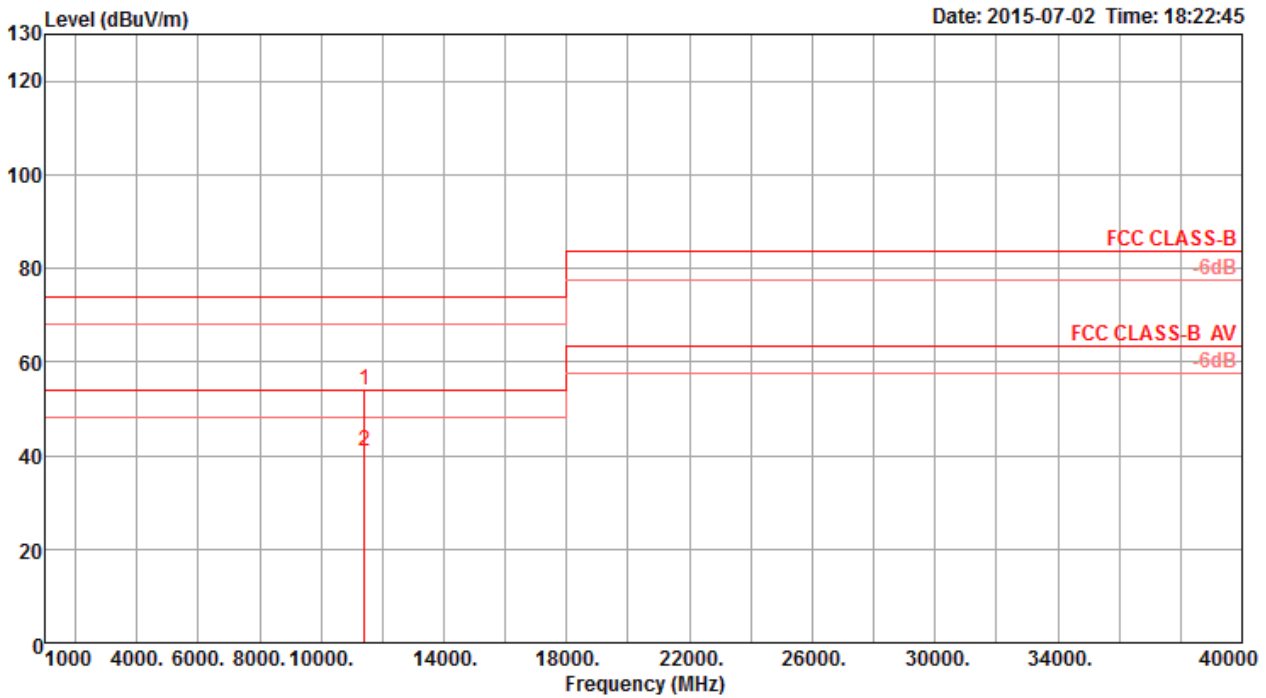
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 140 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11404.80	54.26	74.00	-19.74	40.89	9.19	38.98	34.80 Peak	152	204	HORIZONTAL
2	11408.48	40.76	54.00	-13.24	27.39	9.19	38.98	34.80 Average	152	204	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

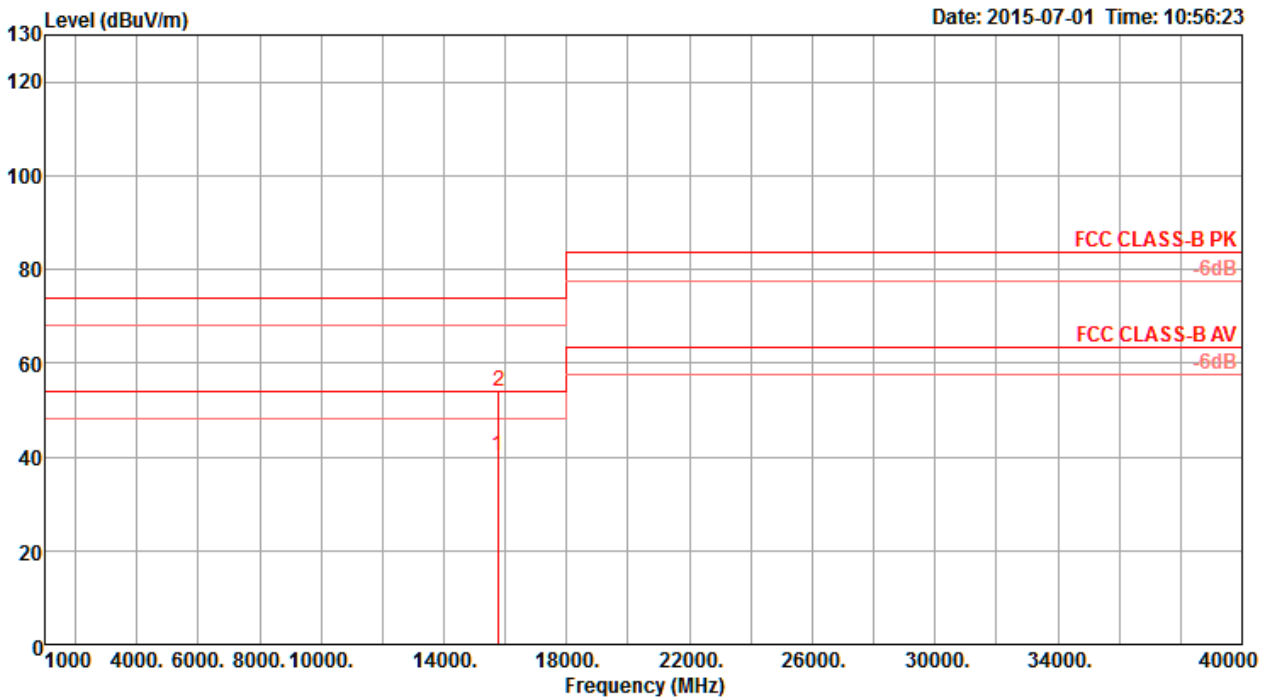
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11a / 6Mbps / CH 140 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11402.04	53.86	74.00	-20.14	40.49	9.19	38.98	34.80	Peak	153	263	VERTICAL
2	11404.92	40.85	54.00	-13.15	27.48	9.19	38.98	34.80	Average	153	263	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

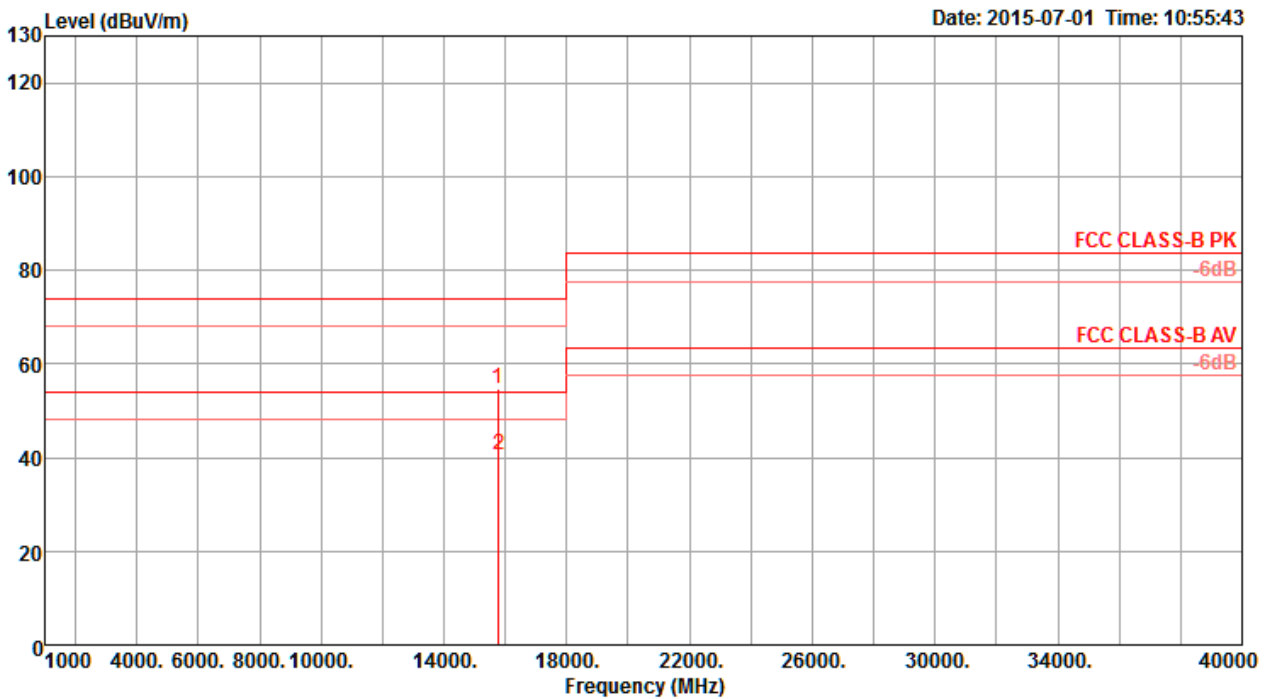
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15770.04	40.37	54.00	-13.63	28.95	7.64	38.60	34.82	158	169	Average	HORIZONTAL
2	15773.12	53.93	74.00	-20.07	42.51	7.64	38.60	34.82	158	169	Peak	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15770.00	54.51	74.00	-19.49	43.09	7.64	38.60	34.82	193	189	Peak	VERTICAL
2	15770.64	40.38	54.00	-13.62	28.96	7.64	38.60	34.82	193	189	Average	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

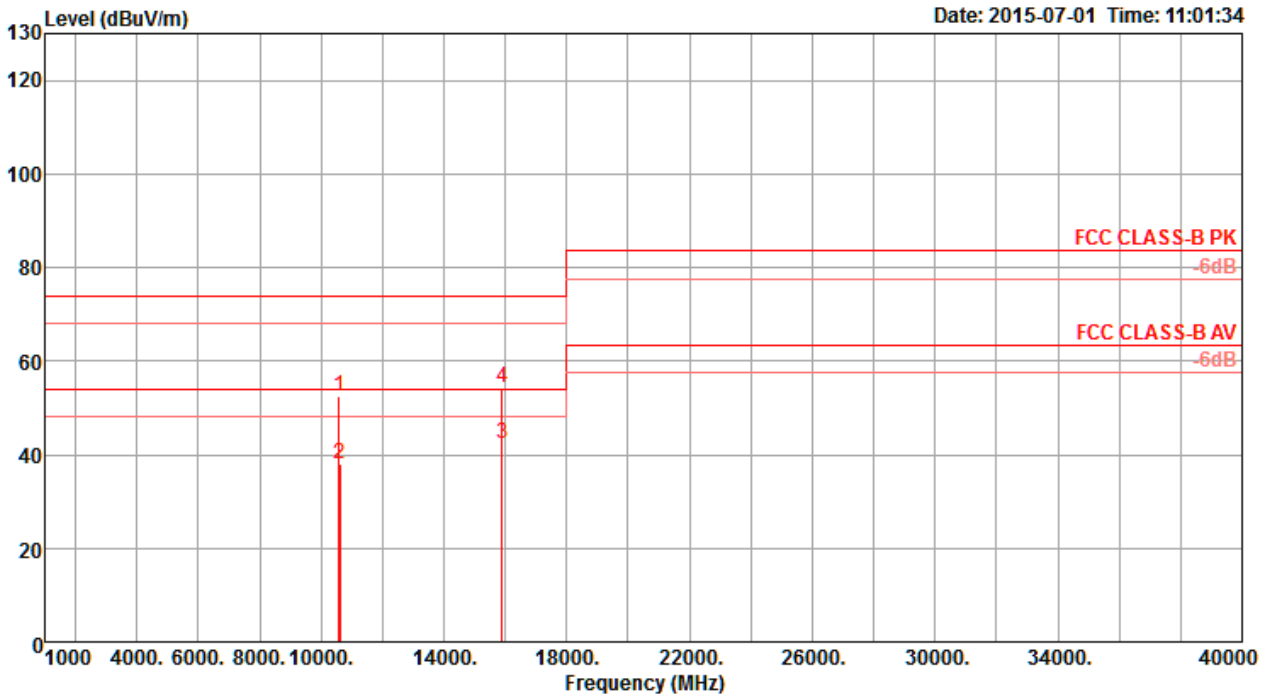
Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)

Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10596.12	52.38	74.00	-21.62	42.35	6.20	38.78	34.95	182	139	Peak	HORIZONTAL
2	10602.84	38.15	54.00	-15.85	28.09	6.21	38.78	34.93	182	139	Average	HORIZONTAL
3	15890.20	42.53	54.00	-11.47	30.97	7.68	38.81	34.93	165	100	Average	HORIZONTAL
4	15907.72	54.42	74.00	-19.58	42.84	7.69	38.84	34.95	165	100	Peak	HORIZONTAL

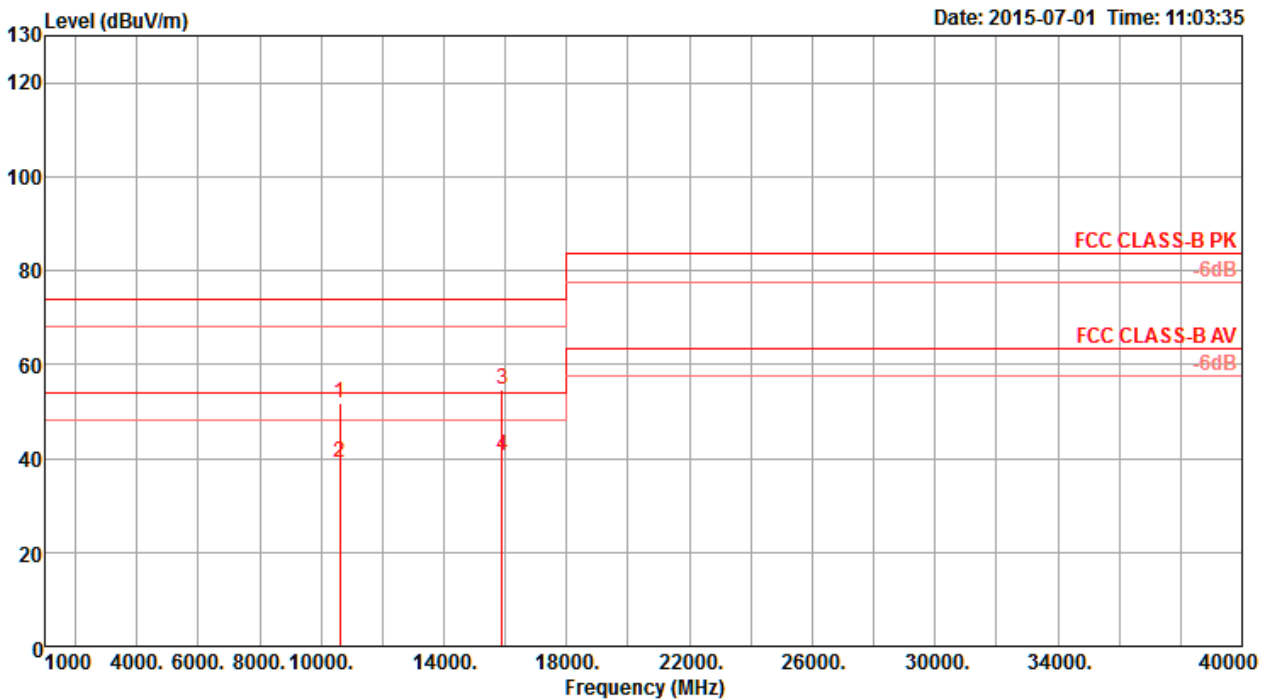
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V

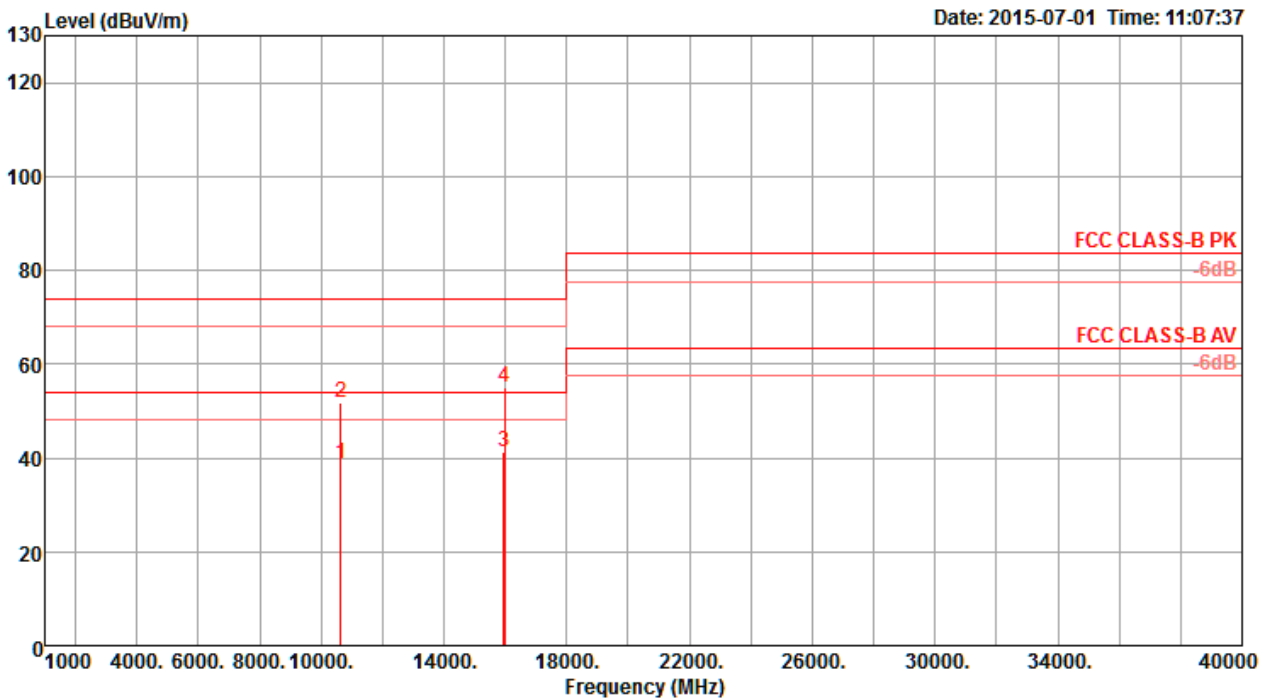


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10600.12	51.76	74.00	-22.24	41.72	6.21	38.78	34.95	17	104	Peak	VERTICAL
2	10602.32	39.12	54.00	-14.88	29.06	6.21	38.78	34.93	17	104	Average	VERTICAL
3	15898.80	54.63	74.00	-19.37	43.07	7.68	38.81	34.93	140	115	Peak	VERTICAL
4	15899.96	40.61	54.00	-13.39	29.05	7.68	38.81	34.93	140	115	Average	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



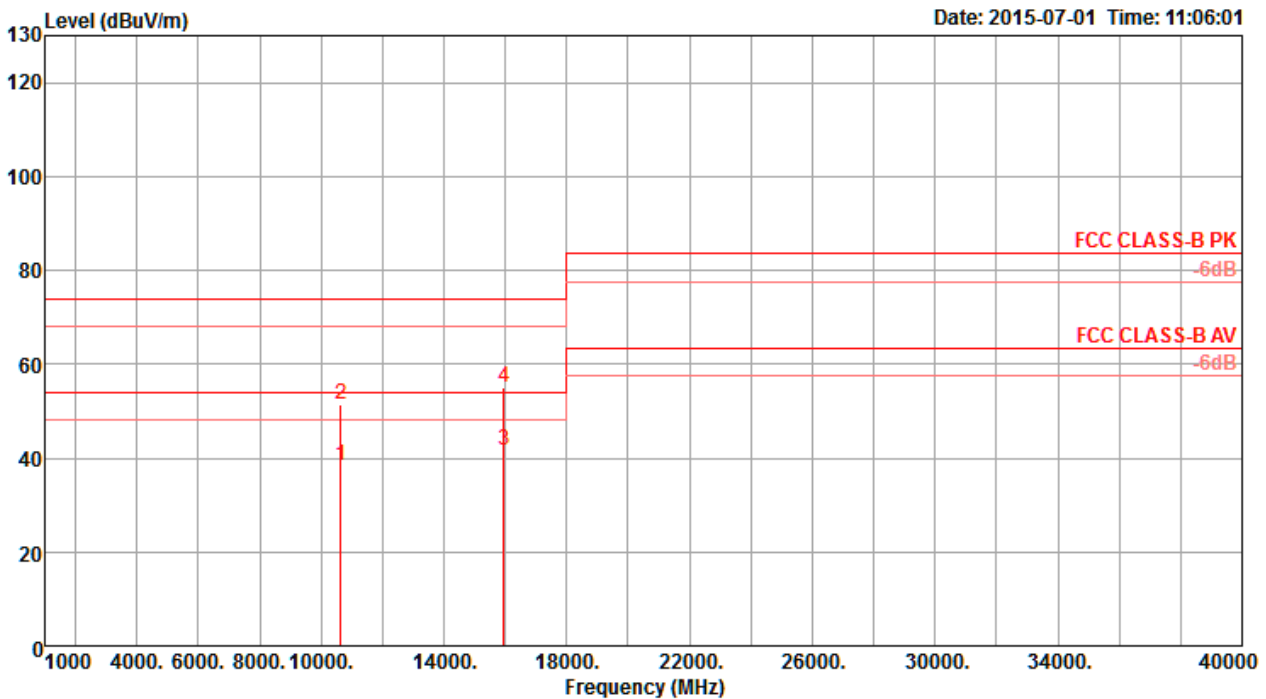
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10630.04	38.84	54.00	-15.16	28.75	6.22	38.78	34.91	150	108	Average	HORIZONTAL
2	10646.40	51.71	74.00	-22.29	41.62	6.23	38.77	34.91	150	108	Peak	HORIZONTAL
3	15961.88	41.44	54.00	-12.56	29.80	7.70	38.94	35.00	157	120	Average	HORIZONTAL
4	15967.84	55.11	74.00	-18.89	43.47	7.70	38.94	35.00	157	120	Peak	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10635.56	38.53	54.00	-15.47	28.44	6.23	38.77	34.91	64	124	Average	VERTICAL
2	10638.40	51.29	74.00	-22.71	41.20	6.23	38.77	34.91	64	124	Peak	VERTICAL
3	15950.08	41.55	54.00	-12.45	29.92	7.70	38.91	34.98	84	135	Average	VERTICAL
4	15953.92	55.05	74.00	-18.95	43.39	7.70	38.94	34.98	84	135	Peak	VERTICAL

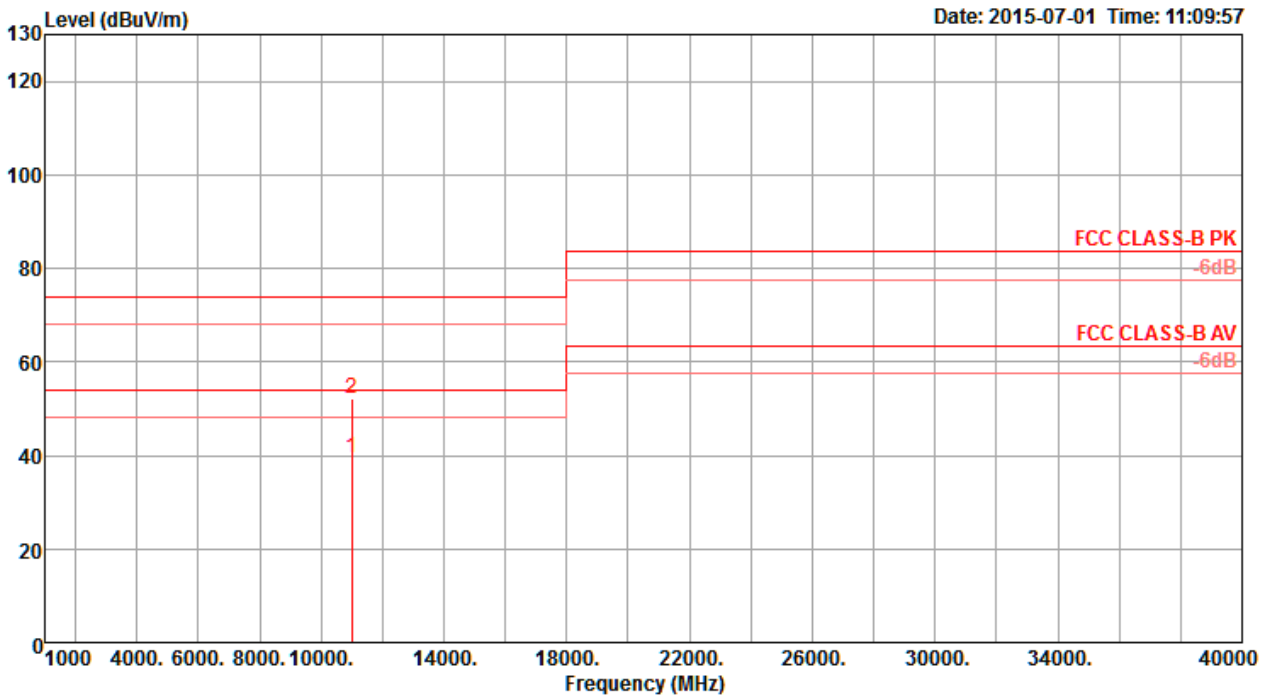
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11001.32	39.53	54.00	-14.47	29.09	6.40	38.70	34.66	125	113	Average	HORIZONTAL
2	11005.13	52.22	74.00	-21.78	41.78	6.40	38.70	34.66	125	113	Peak	HORIZONTAL

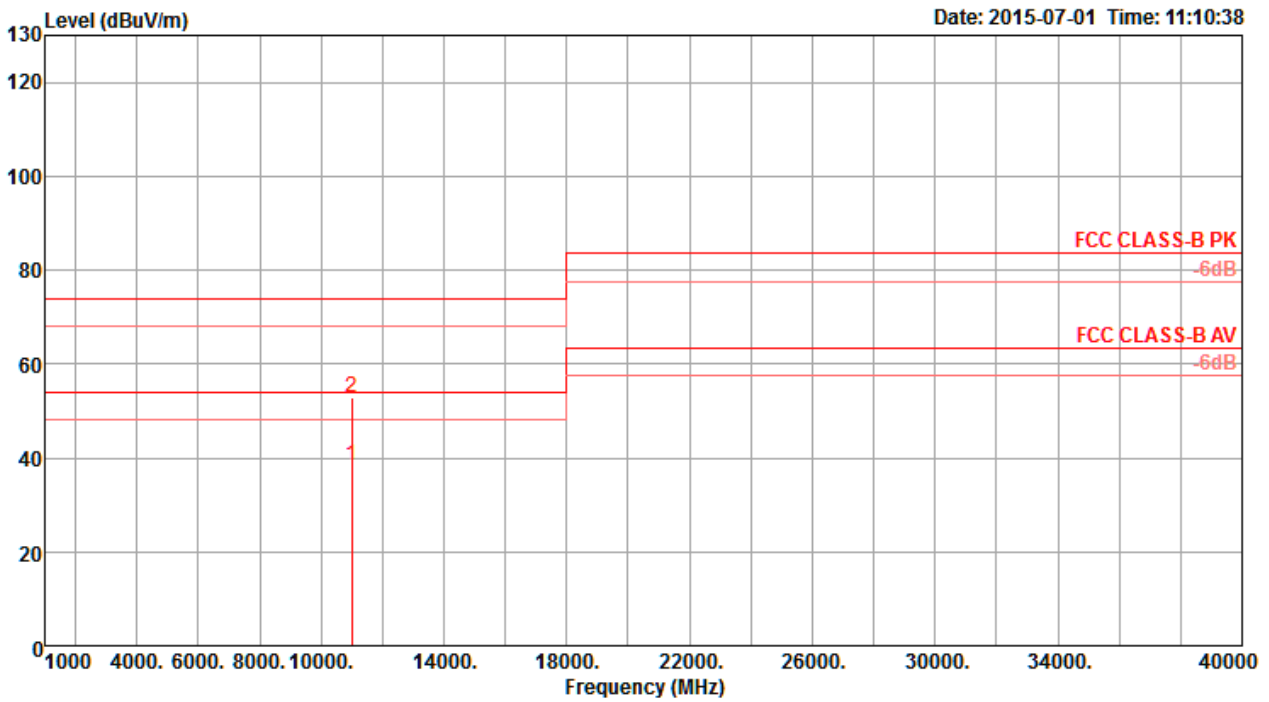
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	10994.83	38.51	54.00	-15.49	28.07	6.40	38.70	34.66	179	107 Average	VERTICAL
2	10995.56	52.85	74.00	-21.15	42.41	6.40	38.70	34.66	179	107 Peak	VERTICAL

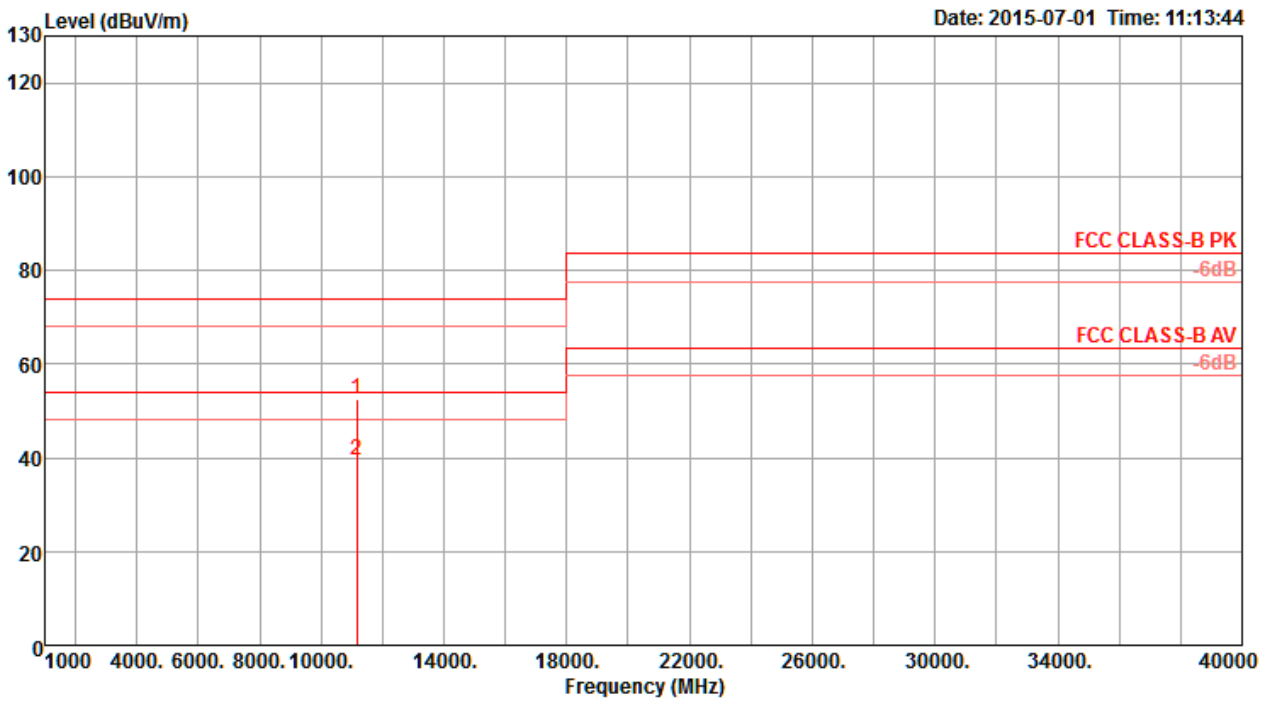
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

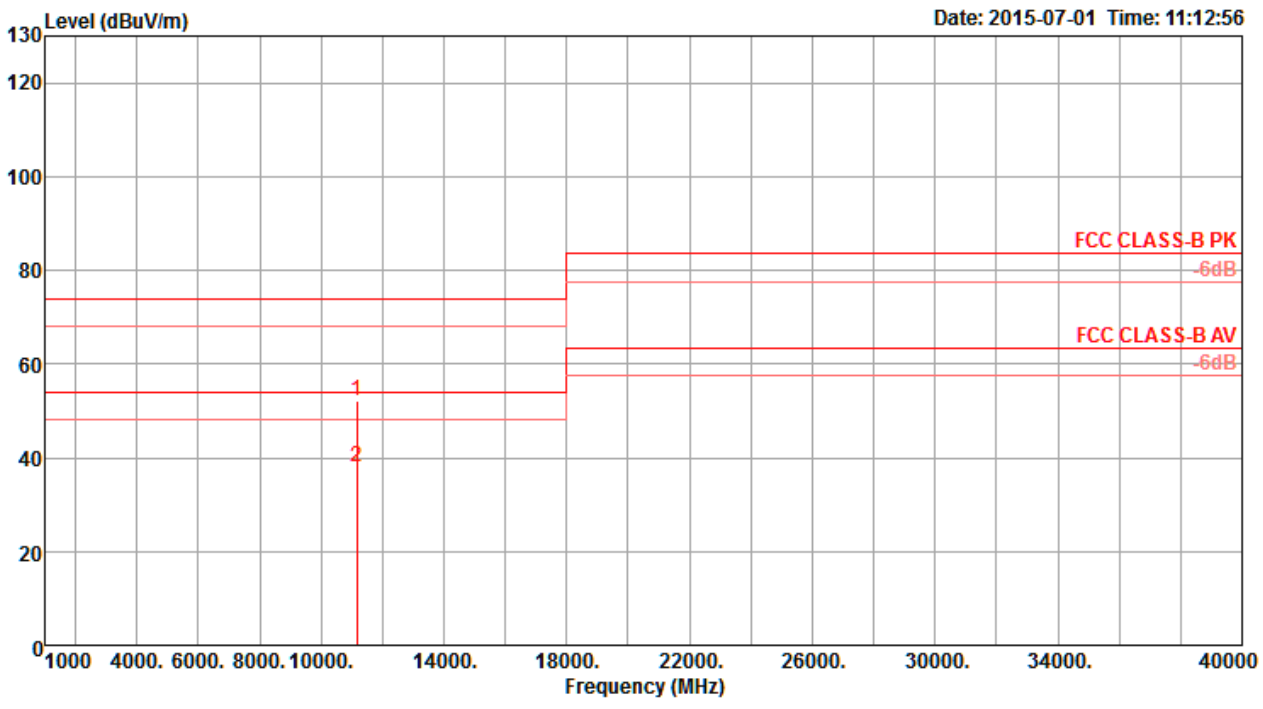
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11162.51	52.49	74.00	-21.51	42.00	6.44	38.70	34.65	24	130	Peak	HORIZONTAL
2	11162.57	39.37	54.00	-14.63	28.88	6.44	38.70	34.65	24	130	Average	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

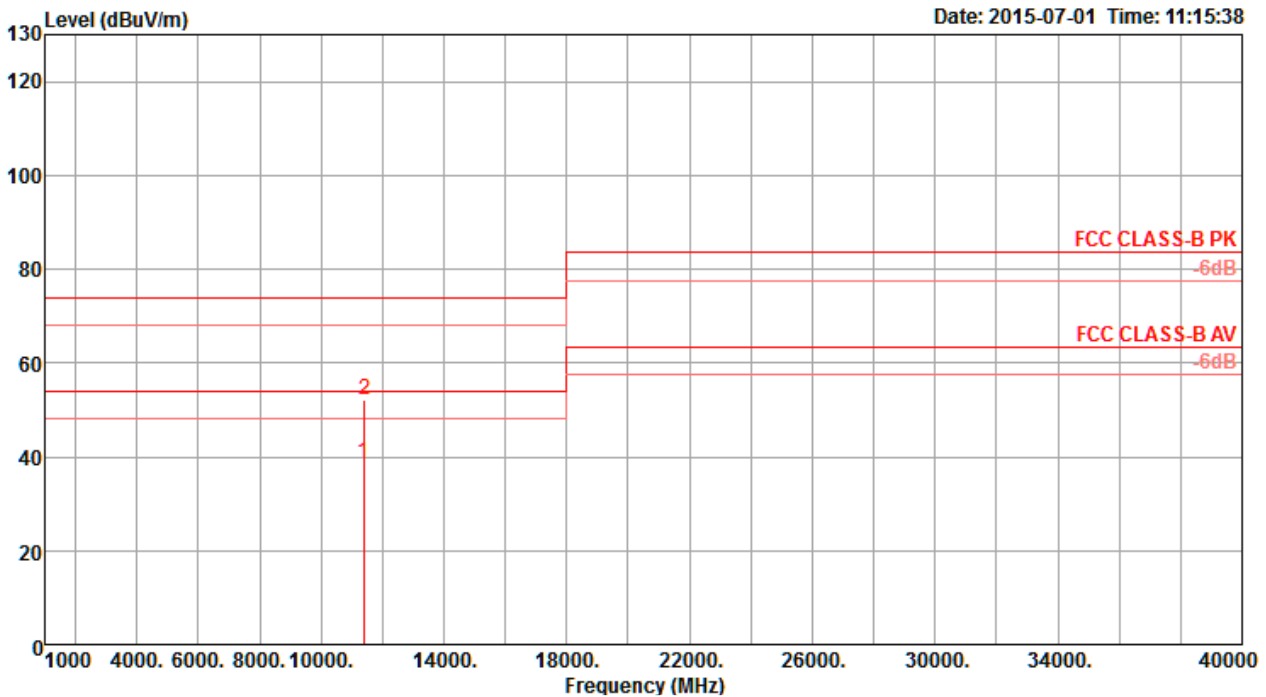
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11157.27	52.05	74.00	-21.95	41.56	6.44	38.70	34.65	126	117	Peak	VERTICAL
2	11161.83	38.00	54.00	-16.00	27.51	6.44	38.70	34.65	126	117	Average	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11399.82	38.82	54.00	-15.18	28.24	6.51	38.70	34.63	122	119	Average	HORIZONTAL
2	11402.42	52.29	74.00	-21.71	41.71	6.51	38.70	34.63	122	119	Peak	HORIZONTAL

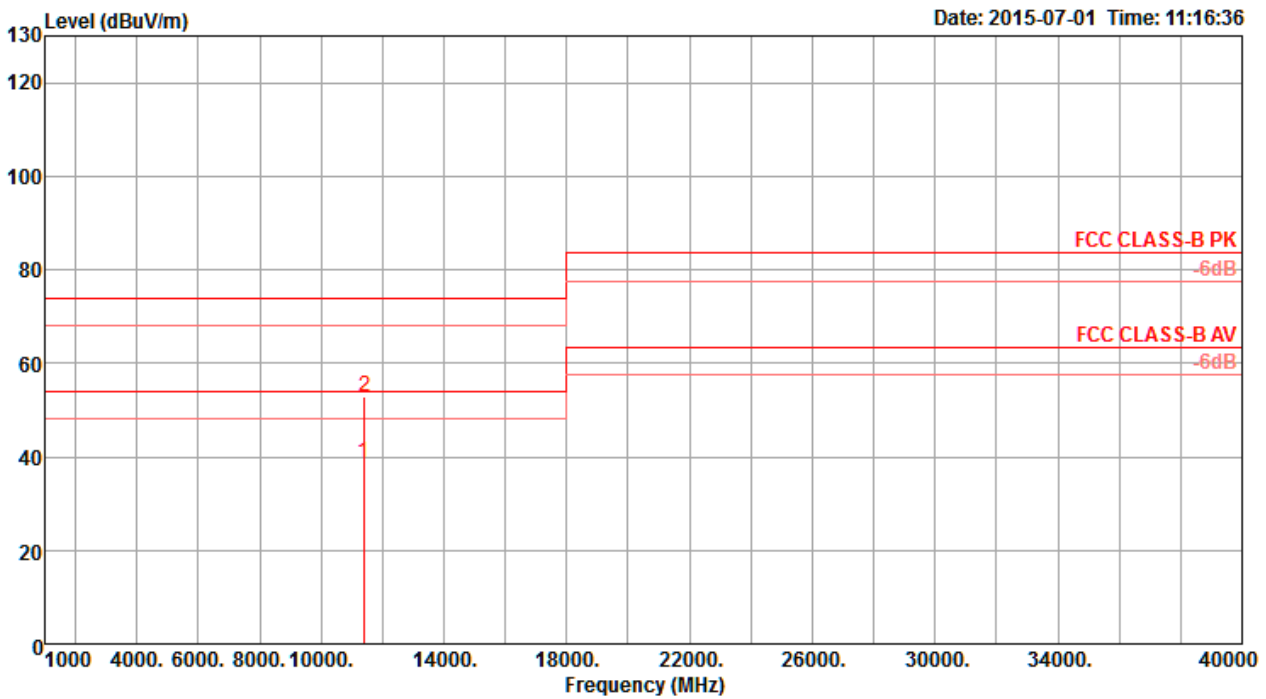
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11399.21	38.83	54.00	-15.17	28.25	6.51	38.70	34.63	246	131	Average	VERTICAL
2	11401.43	52.87	74.00	-21.13	42.29	6.51	38.70	34.63	246	131	Peak	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

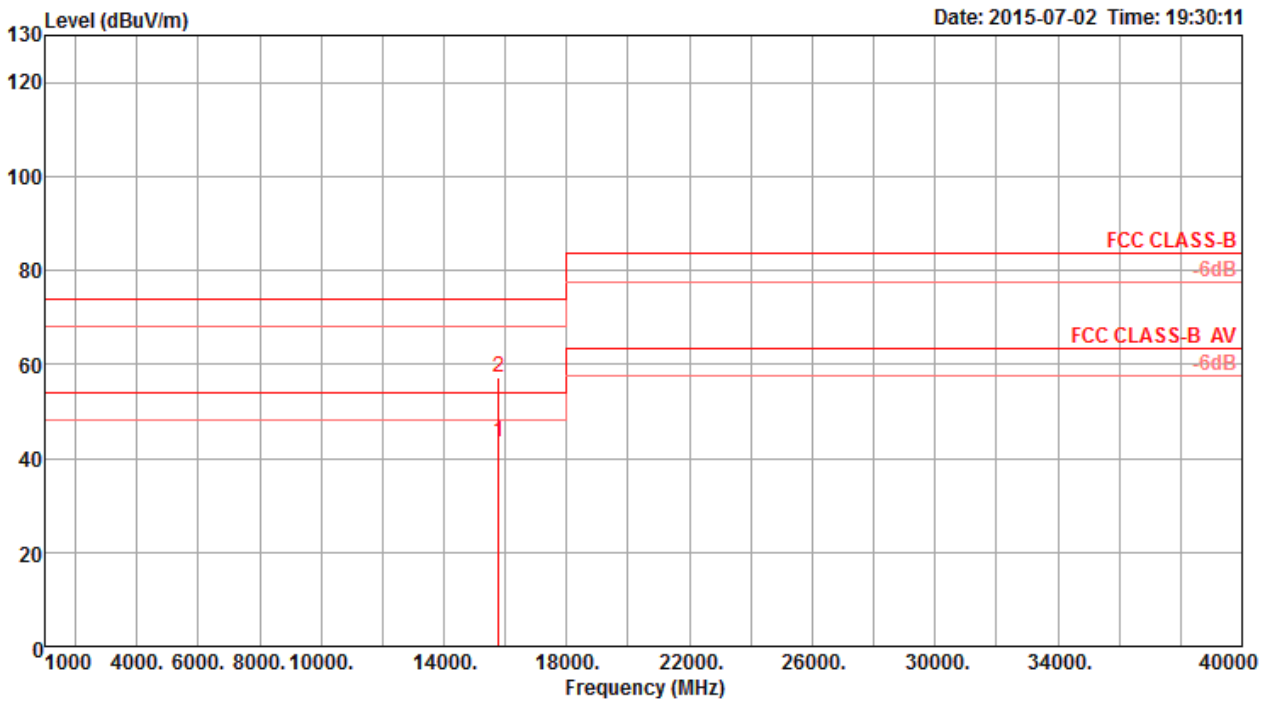
Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15778.10	43.48	54.00	-10.52	30.09	10.80	37.91	35.32 Average	150	273	HORIZONTAL
2	15779.27	57.37	74.00	-16.63	43.98	10.80	37.91	35.32 Peak	150	273	HORIZONTAL

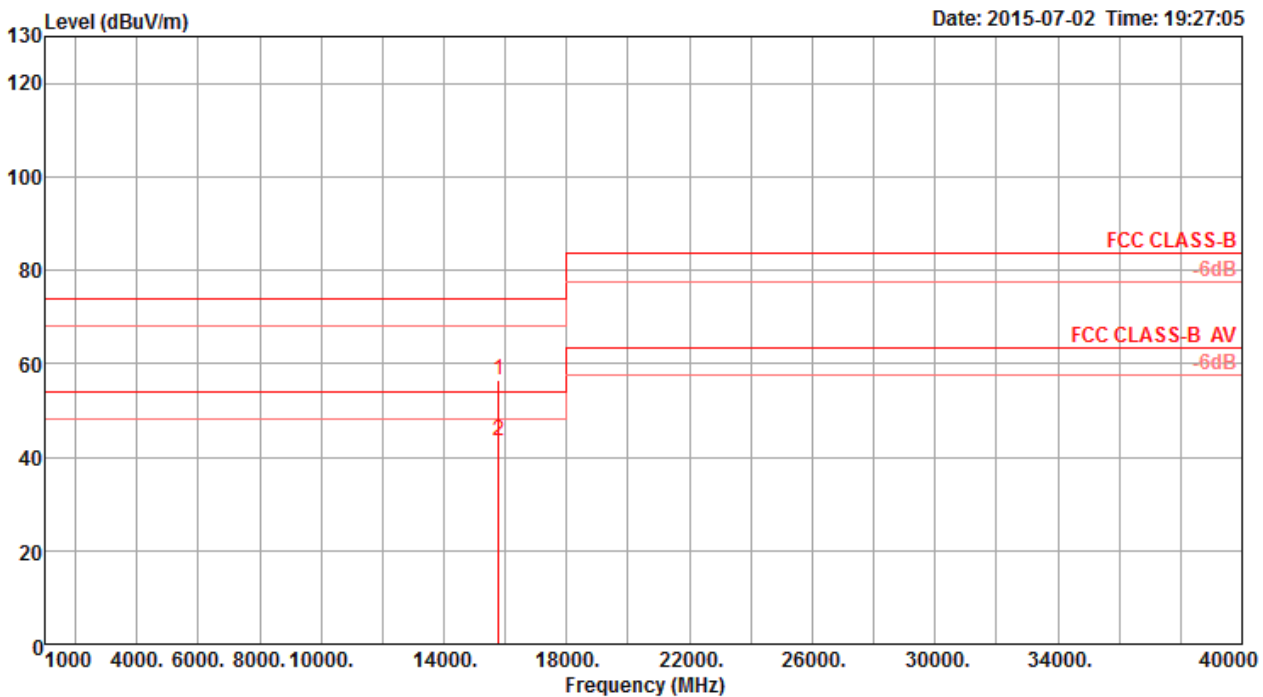
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

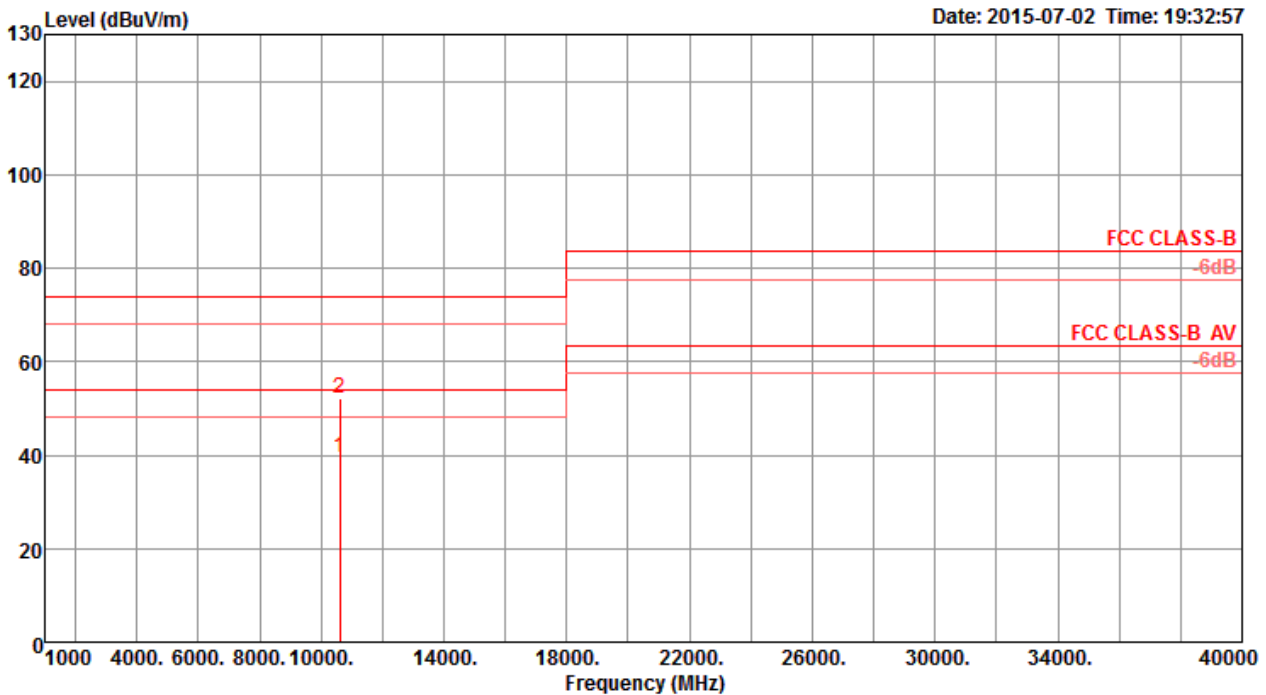
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.10	56.34	74.00	-17.66	42.95	10.80	37.91	35.32	Peak	150	282	VERTICAL
2	15780.99	43.46	54.00	-10.54	30.07	10.80	37.91	35.32	Average	150	282	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

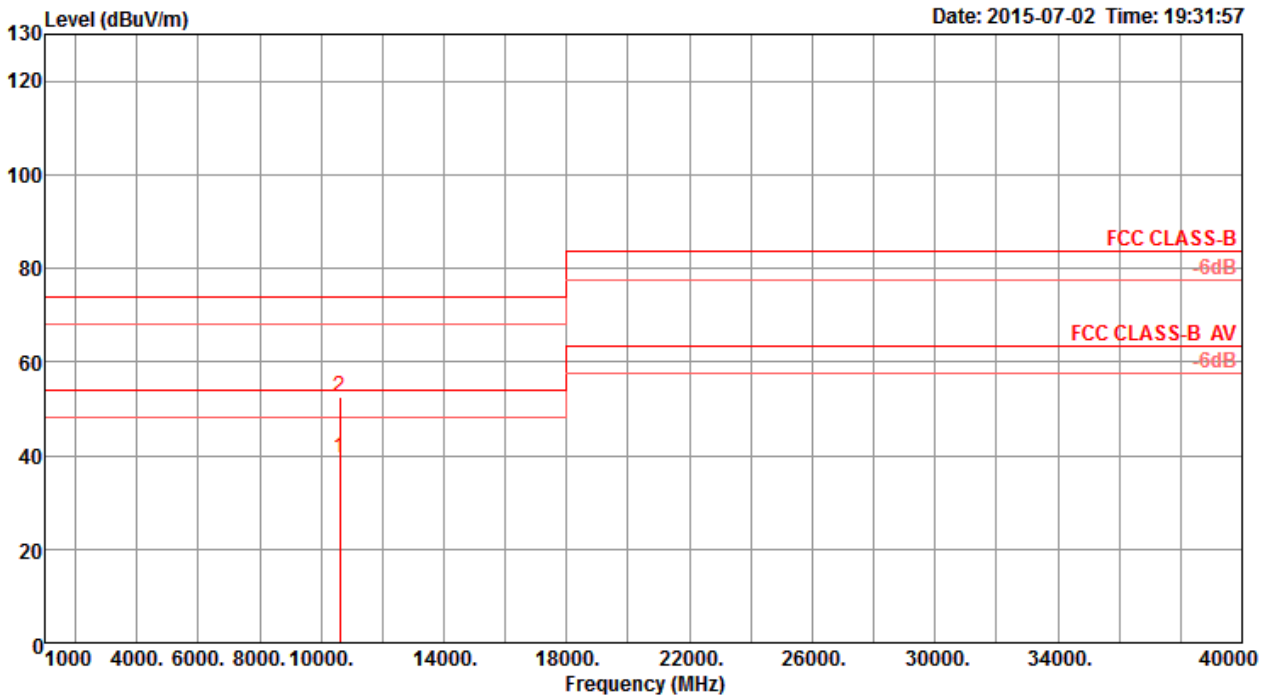
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	David Tseng	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10599.43	39.39	54.00	-14.61	27.13	8.64	38.58	34.96	150	358	HORIZONTAL
2	10601.90	52.15	74.00	-21.85	39.88	8.64	38.58	34.95	150	358	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

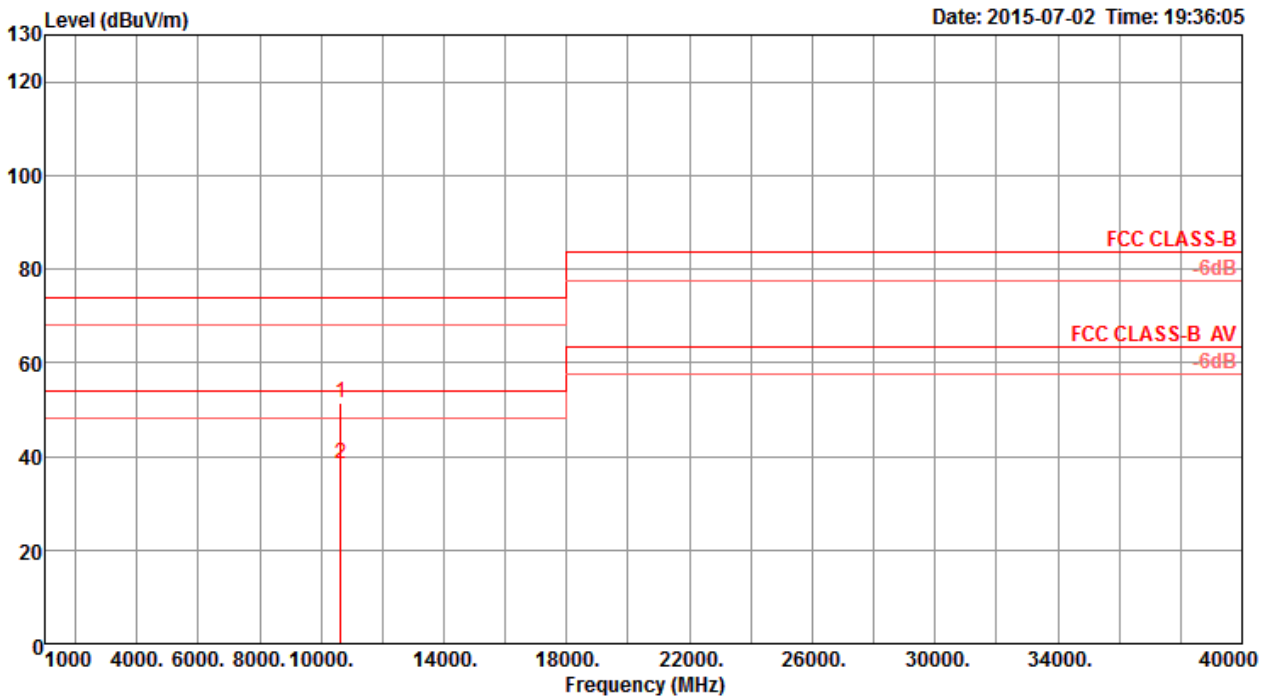
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10599.43	39.37	54.00	-14.63	27.11	8.64	38.58	34.96	Average	150	352	VERTICAL
2	10601.67	52.52	74.00	-21.48	40.25	8.64	38.58	34.95	Peak	150	352	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

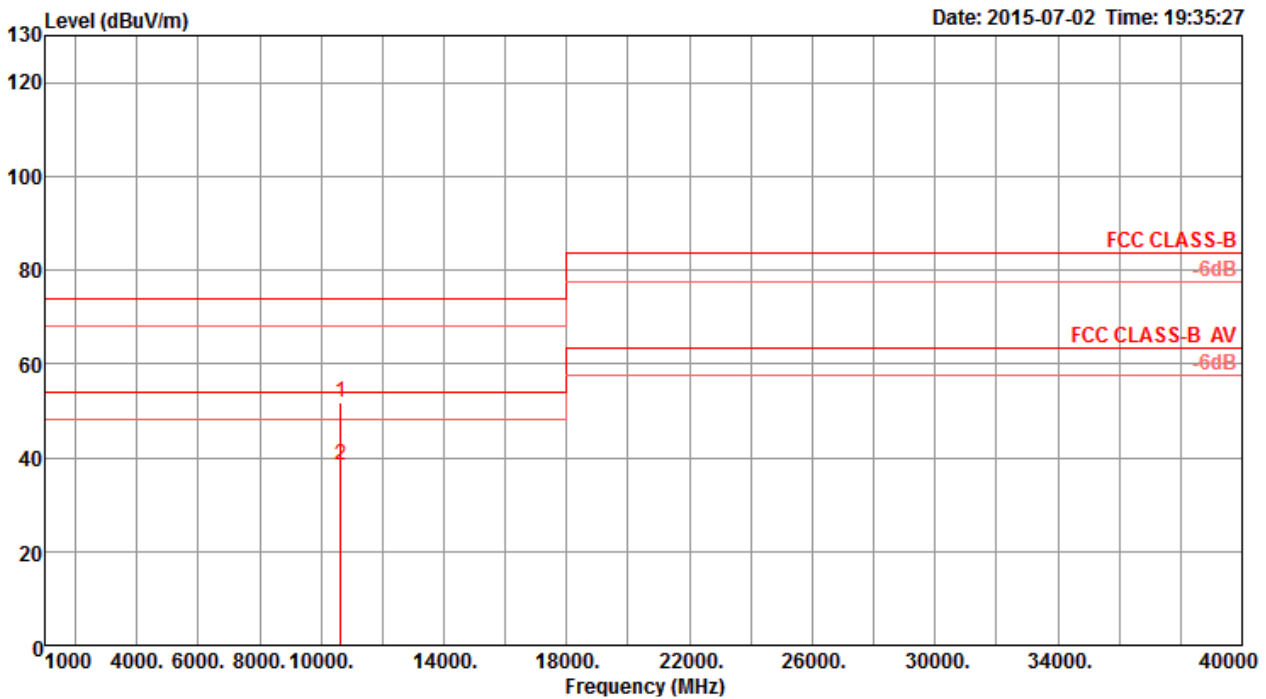
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10638.25	51.37	74.00	-22.63	39.08	8.66	38.57	34.94	Peak	150	304	HORIZONTAL
2	10640.11	38.23	54.00	-15.77	25.94	8.66	38.57	34.94	Average	150	304	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

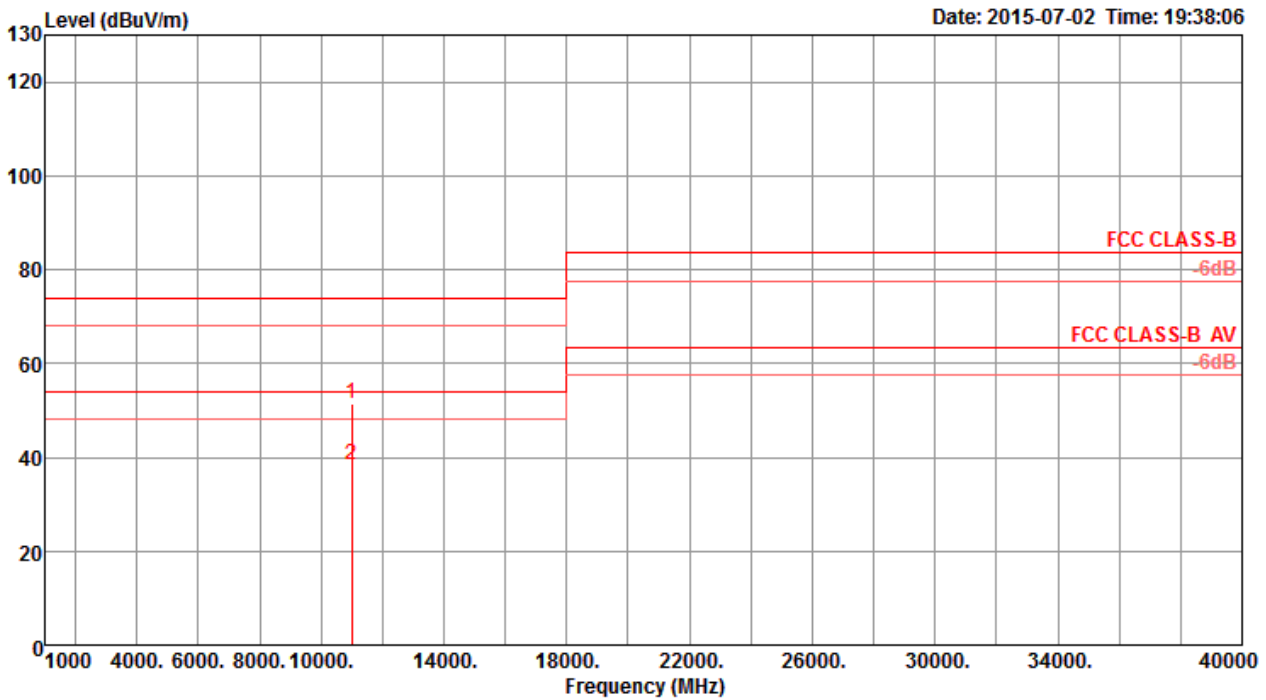
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10639.14	51.76	74.00	-22.24	39.47	8.66	38.57	34.94 Peak	150	320	VERTICAL
2	10640.51	38.46	54.00	-15.54	26.17	8.66	38.57	34.94 Average	150	320	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

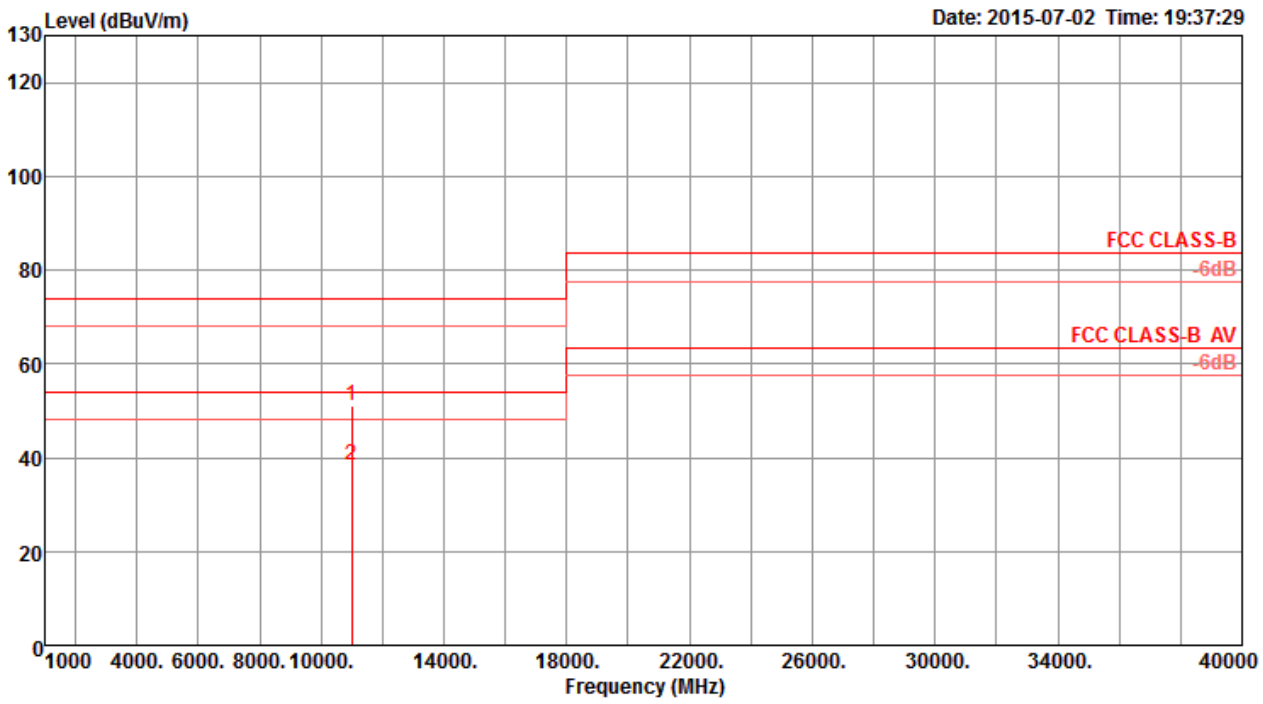
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10999.57	51.25	74.00	-22.75	38.61	8.93	38.50	34.79 Peak	150	180	HORIZONTAL
2	11002.20	38.41	54.00	-15.59	25.77	8.93	38.50	34.79 Average	150	180	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11000.93	51.17	74.00	-22.83	38.53	8.93	38.50	34.79 Peak	150	223	VERTICAL
2	11001.39	38.52	54.00	-15.48	25.88	8.93	38.50	34.79 Average	150	223	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

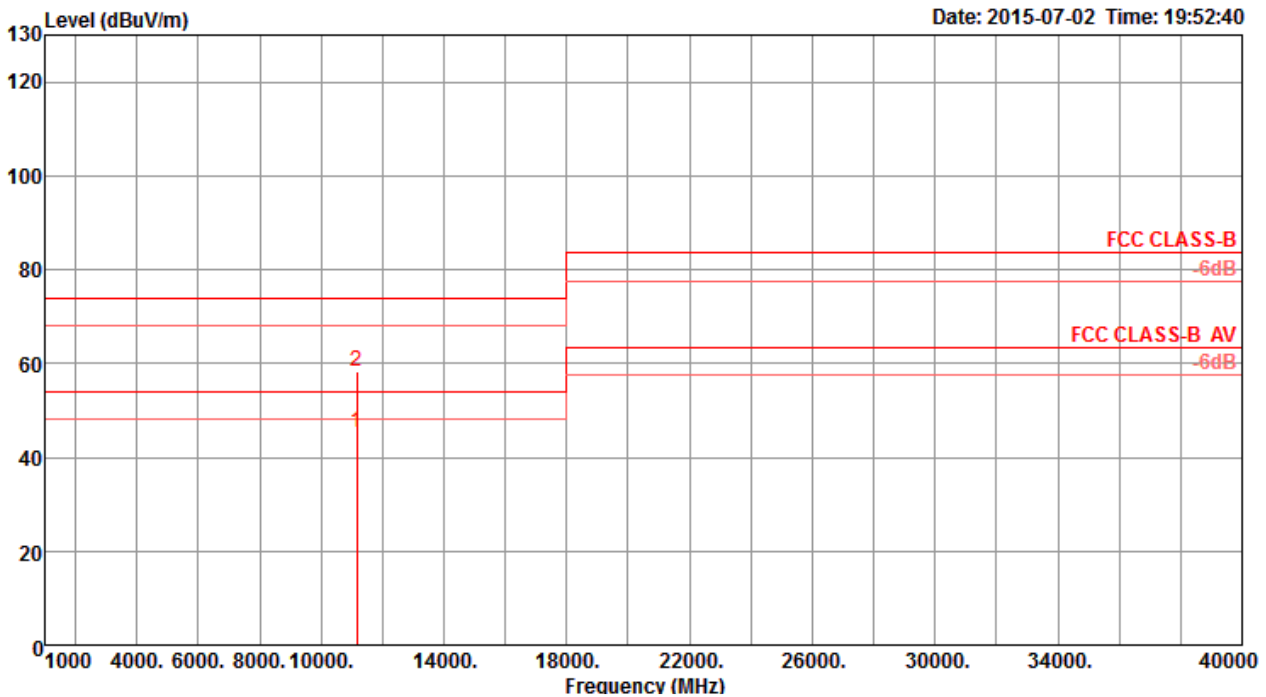
Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11158.58	45.25	54.00	-8.75	32.30	9.04	38.70	34.79	Average	153	62	HORIZONTAL
2	11159.04	58.42	74.00	-15.58	45.47	9.04	38.70	34.79	Peak	153	62	HORIZONTAL

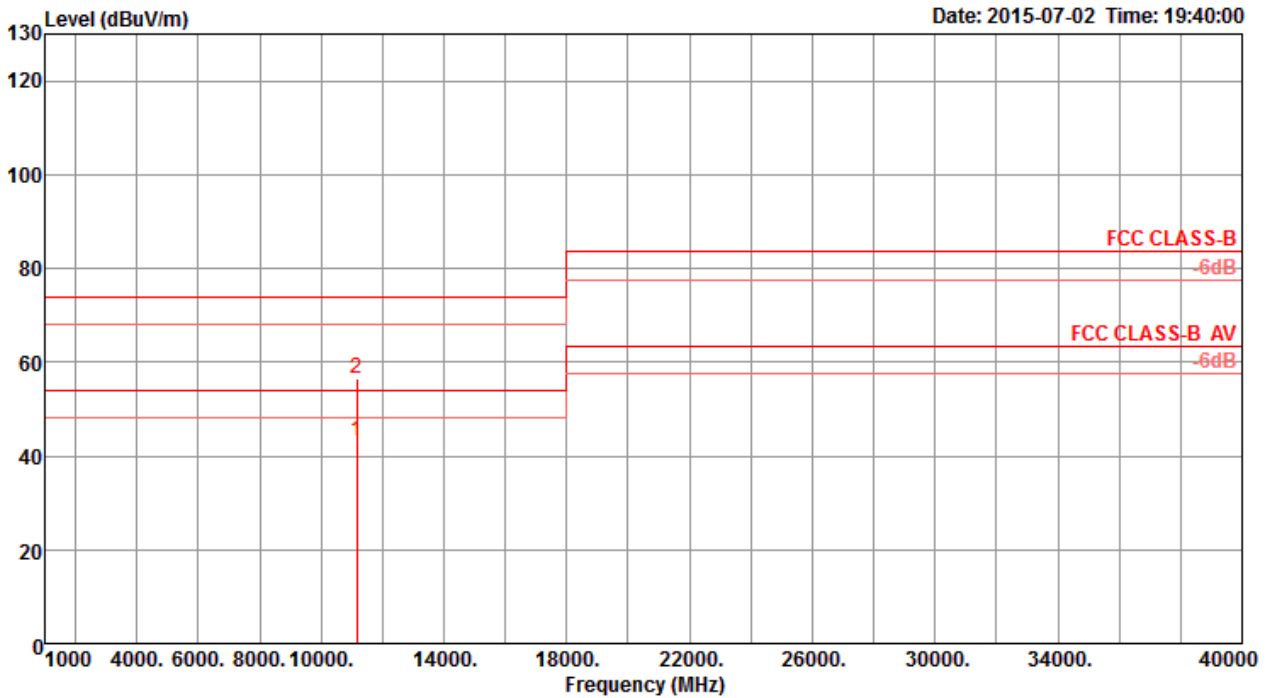
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

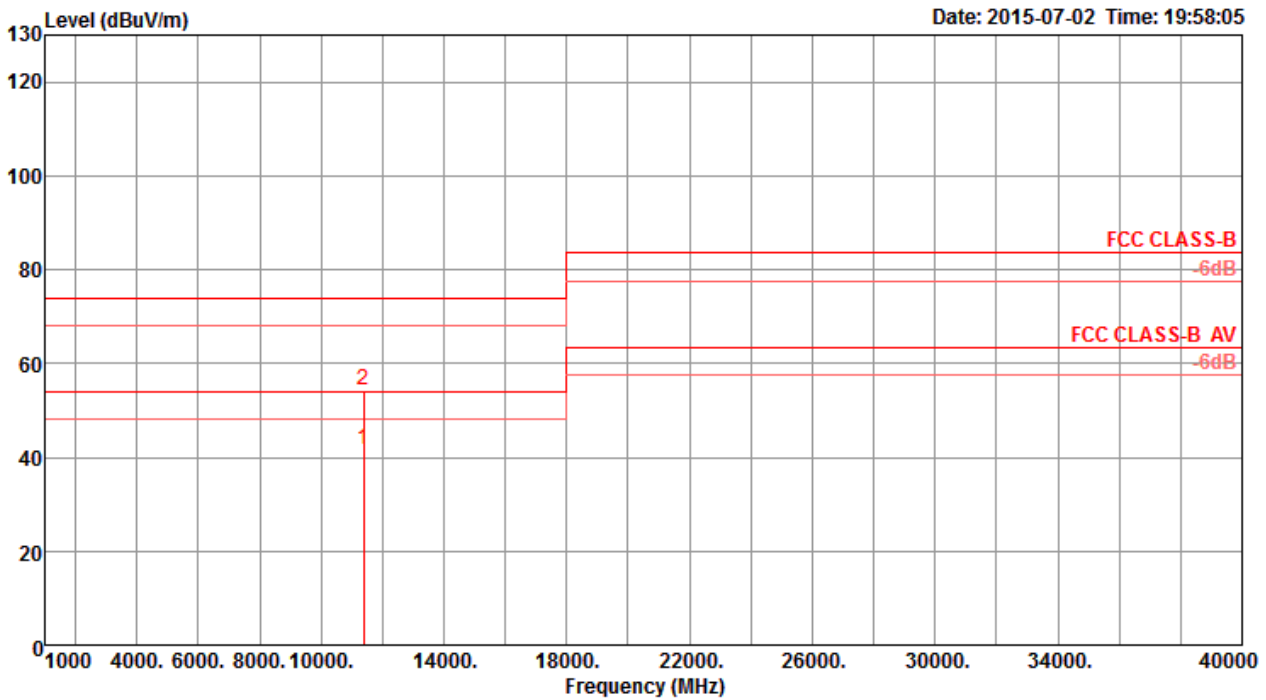
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11159.88	43.01	54.00	-10.99	30.06	9.04	38.70	34.79	Average	153	61 VERTICAL
2	11160.60	56.53	74.00	-17.47	43.58	9.04	38.70	34.79	Peak	153	61 VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

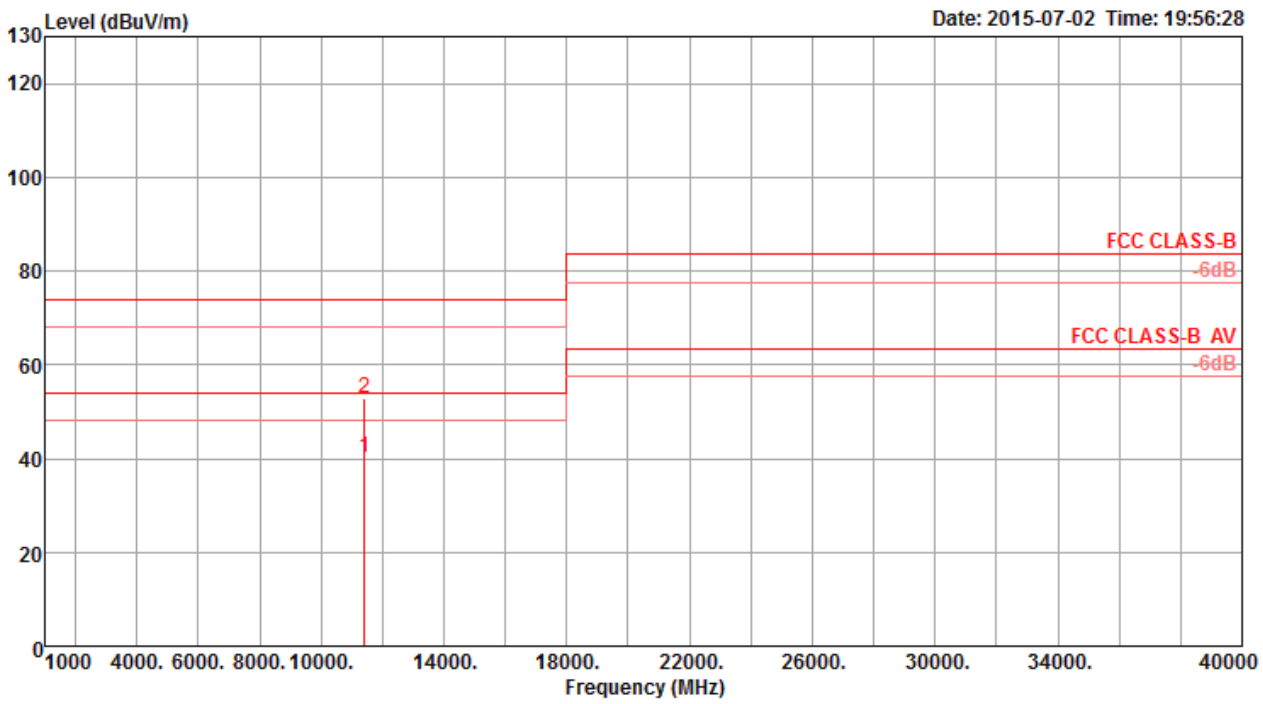
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11398.80	41.49	54.00	-12.51	28.12	9.19	38.98	34.80	Average	153	108	HORIZONTAL
2	11398.96	54.29	74.00	-19.71	40.92	9.19	38.98	34.80	Peak	153	108	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

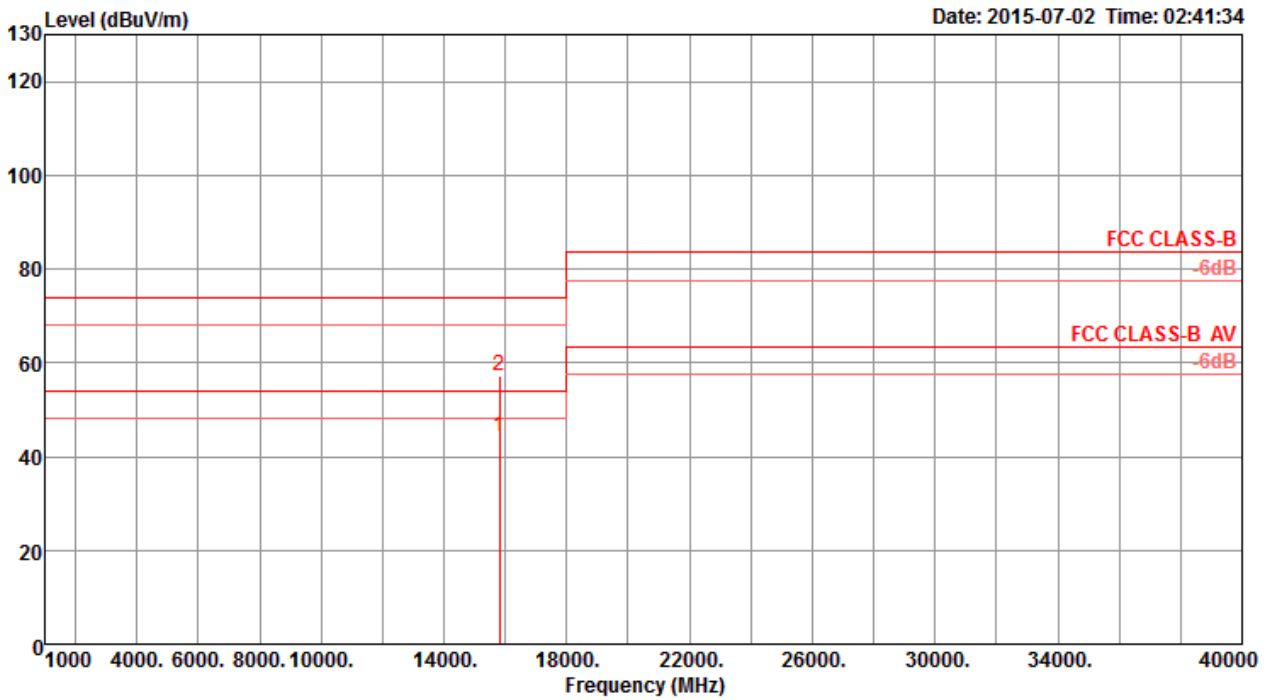
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.04	40.24	54.00	-13.76	26.87	9.19	38.98	34.80	Average	153	88	VERTICAL
2	11404.06	53.04	74.00	-20.96	39.67	9.19	38.98	34.80	Peak	153	88	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

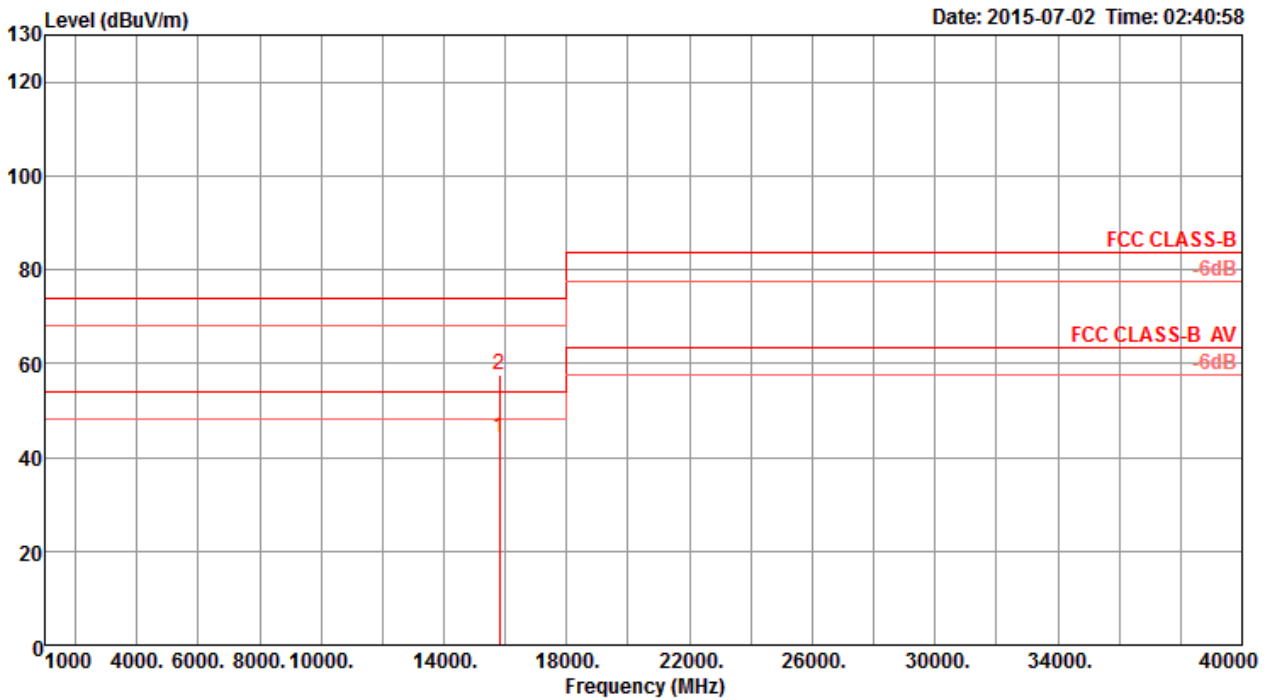
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15810.19	44.14	54.00	-9.86	30.80	10.80	37.87	35.33	150	92	HORIZONTAL
2	15810.30	57.07	74.00	-16.93	43.73	10.80	37.87	35.33	150	92	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

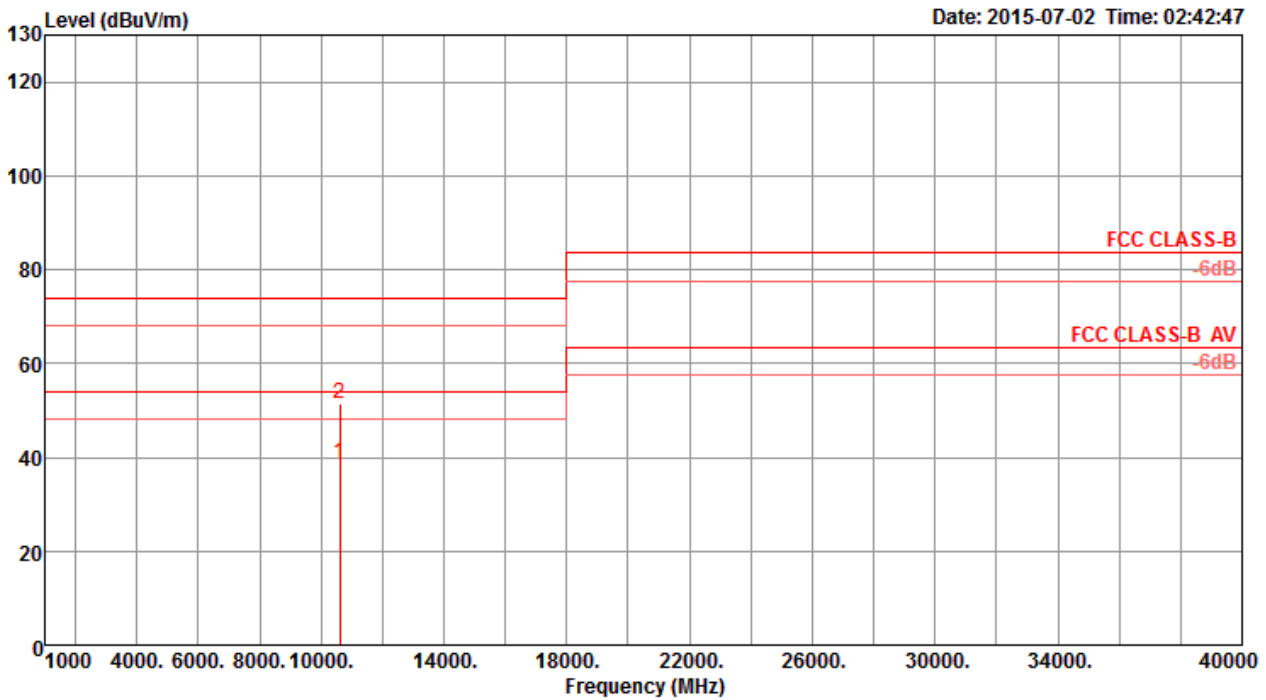
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15809.56	44.35	54.00	-9.65	31.01	10.80	37.87	35.33	Average	150	251	VERTICAL
2	15810.14	57.66	74.00	-16.34	44.32	10.80	37.87	35.33	Peak	150	251	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10619.64	38.58	54.00	-15.42	26.30	8.65	38.58	34.95	150	250	HORIZONTAL
2	10620.49	51.30	74.00	-22.70	39.02	8.65	38.58	34.95	150	250	HORIZONTAL

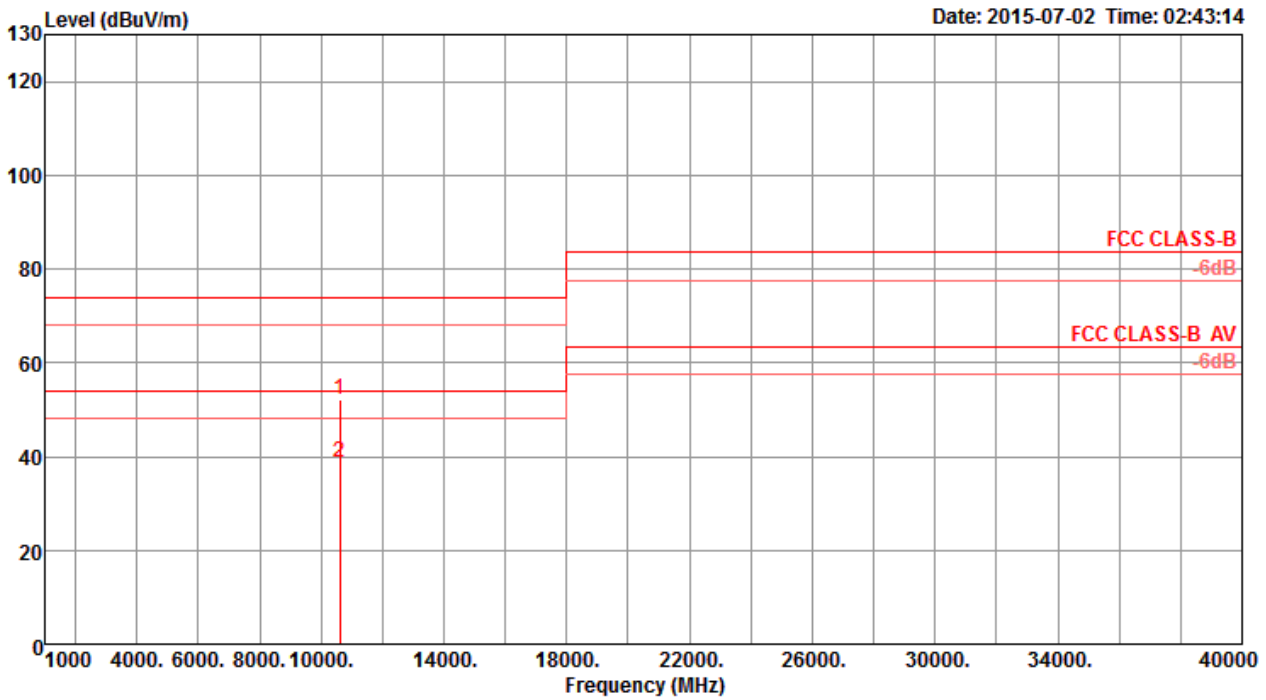
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V

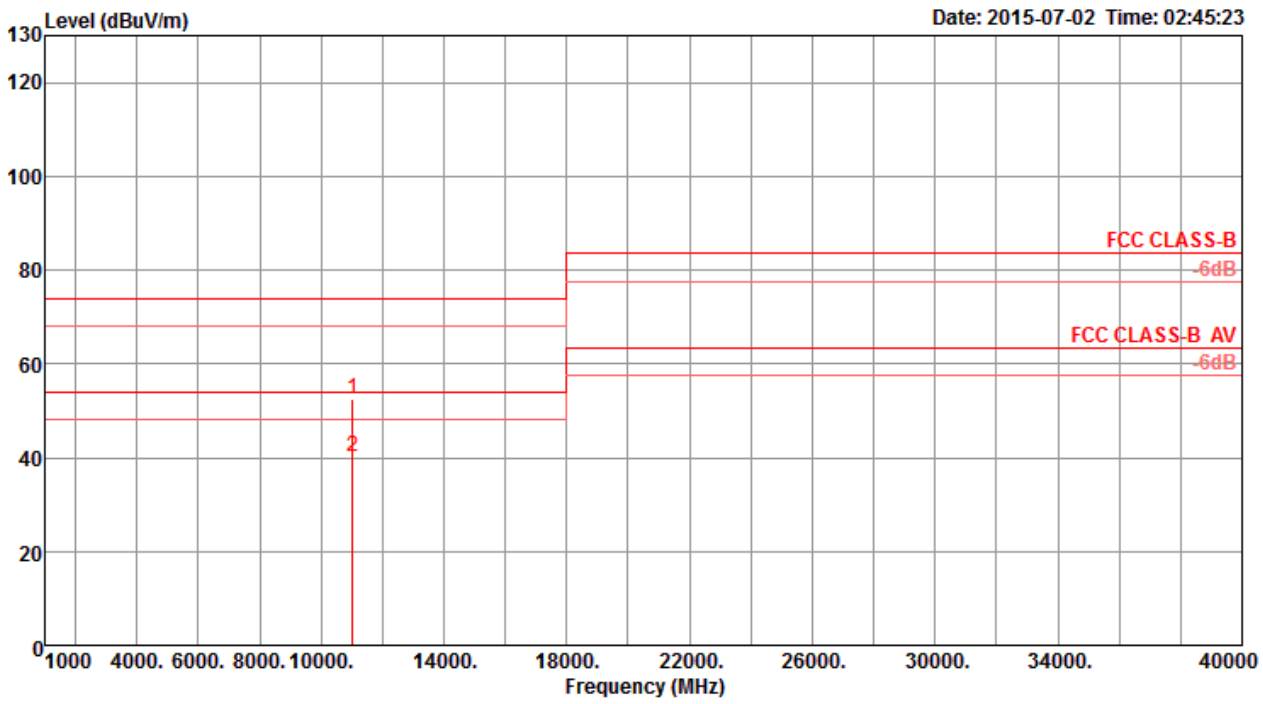


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10619.79	52.17	74.00	-21.83	39.89	8.65	38.58	34.95	Peak	150	342	VERTICAL
2	10619.97	38.66	54.00	-15.34	26.38	8.65	38.58	34.95	Average	150	342	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



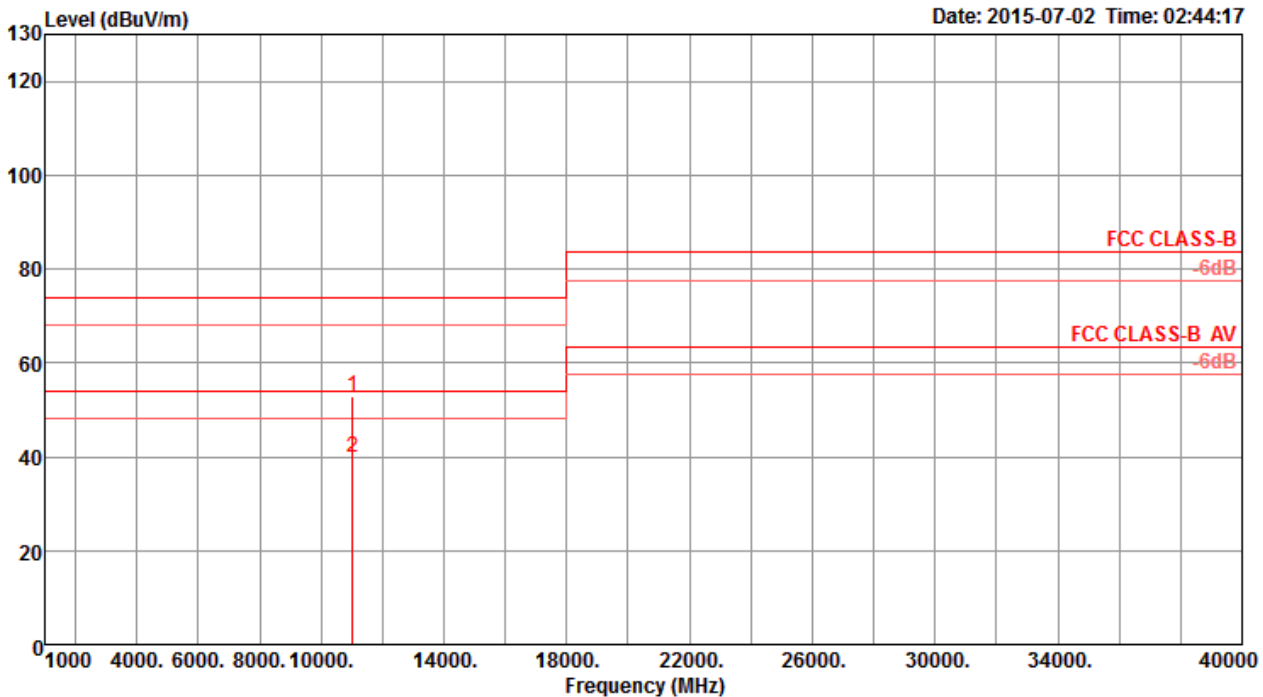
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11020.48	52.51	74.00	-21.49	39.84	8.94	38.52	34.79 Peak	150	129	HORIZONTAL
2	11020.50	40.04	54.00	-13.96	27.37	8.94	38.52	34.79 Average	150	129	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11019.93	52.99	74.00	-21.01	40.32	8.94	38.52	34.79 Peak	150	246	VERTICAL
2	11020.23	39.72	54.00	-14.28	27.05	8.94	38.52	34.79 Average	150	246	VERTICAL

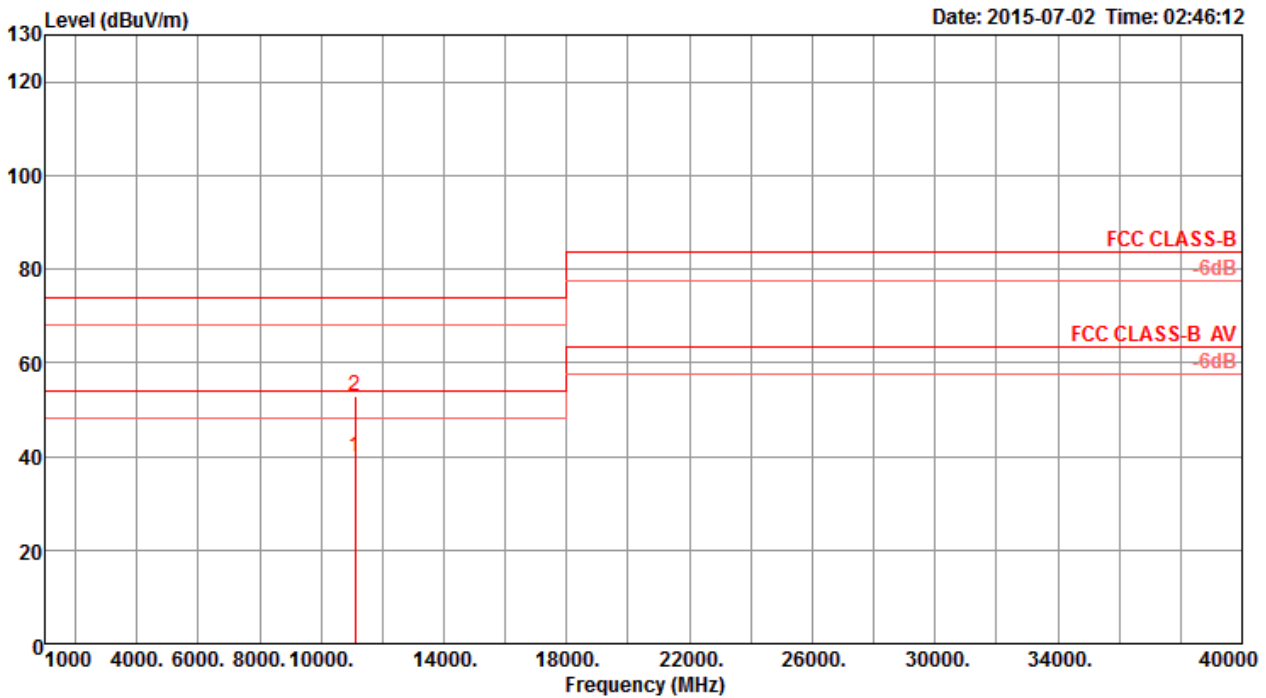
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11099.50	39.96	54.00	-14.04	27.14	8.99	38.62	34.79	Average	150	304	HORIZONTAL
2	11099.90	53.02	74.00	-20.98	40.20	8.99	38.62	34.79	Peak	150	304	HORIZONTAL

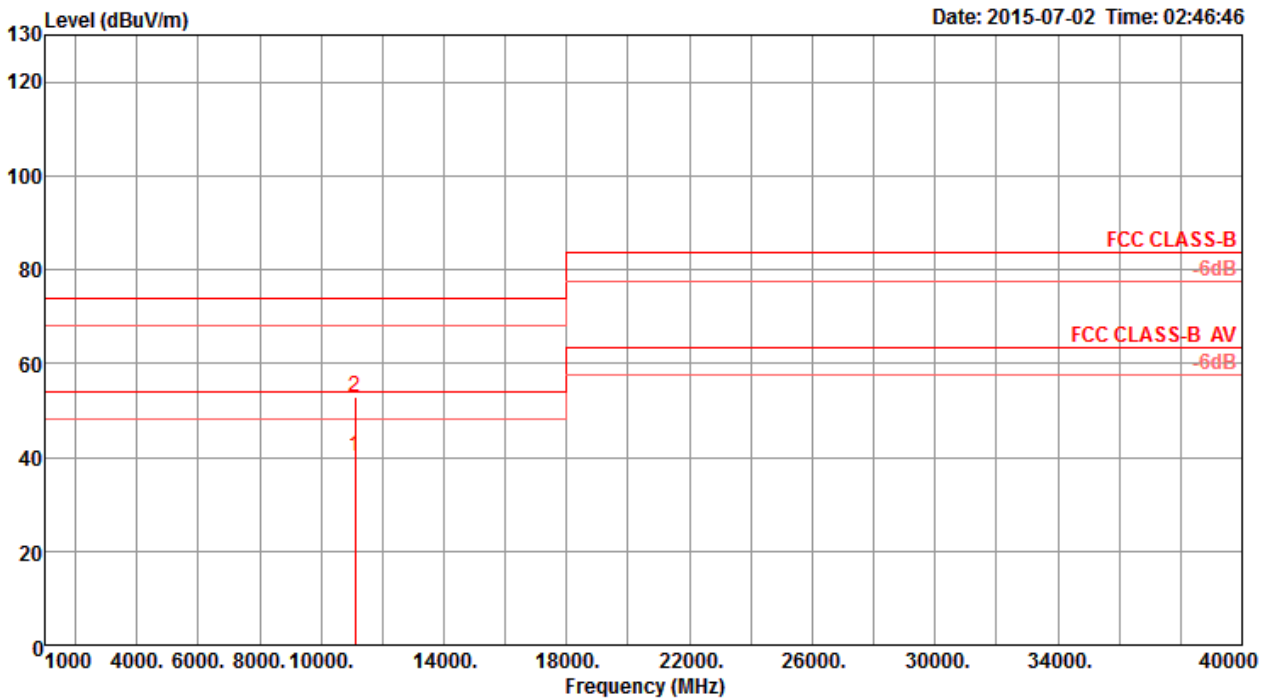
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

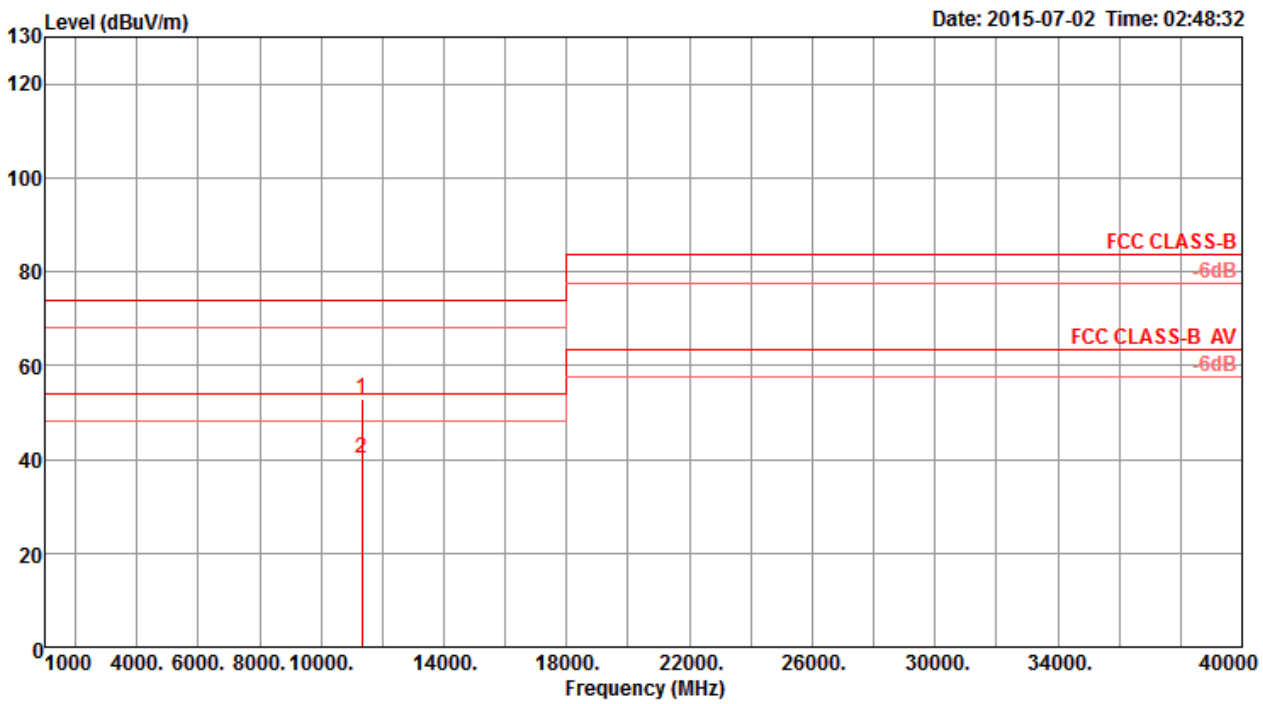
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11100.06	40.34	54.00	-13.66	27.52	8.99	38.62	34.79 Average	150	160	VERTICAL
2	11100.11	52.92	74.00	-21.08	40.10	8.99	38.62	34.79 Peak	150	160	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

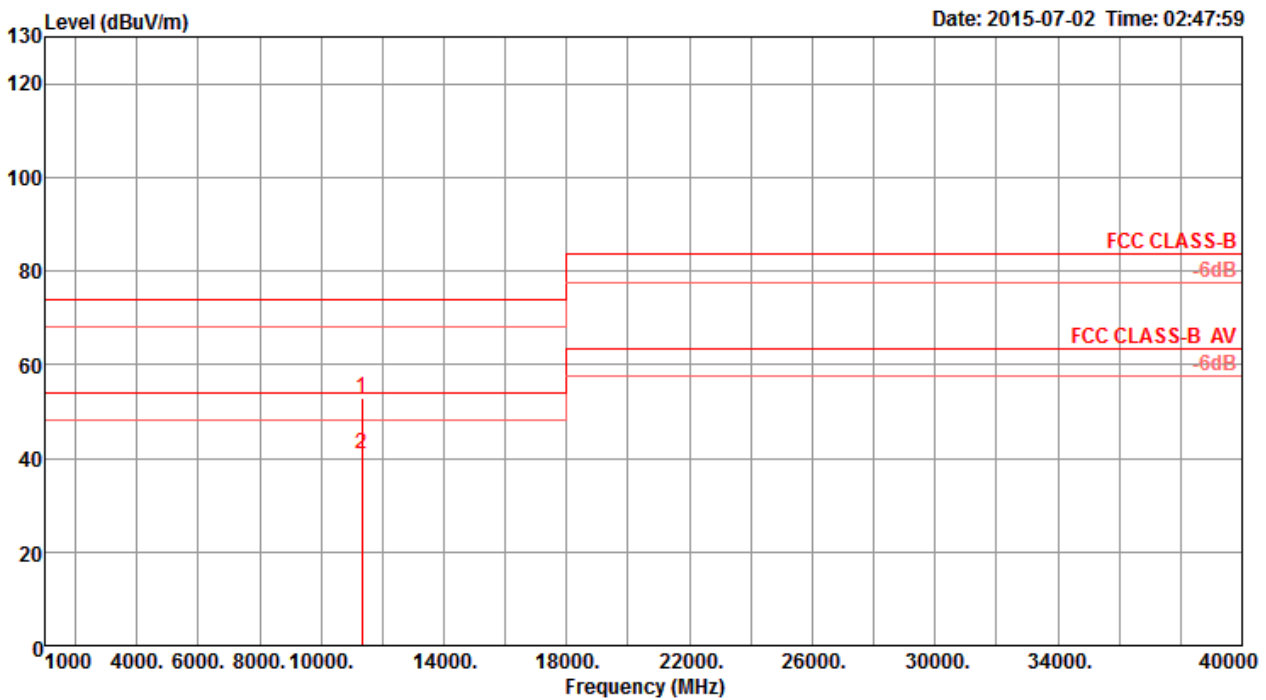
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11339.93	52.78	74.00	-21.22	39.54	9.14	38.90	34.80	Peak	150	277 HORIZONTAL
2	11339.93	40.10	54.00	-13.90	26.86	9.14	38.90	34.80	Average	150	277 HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

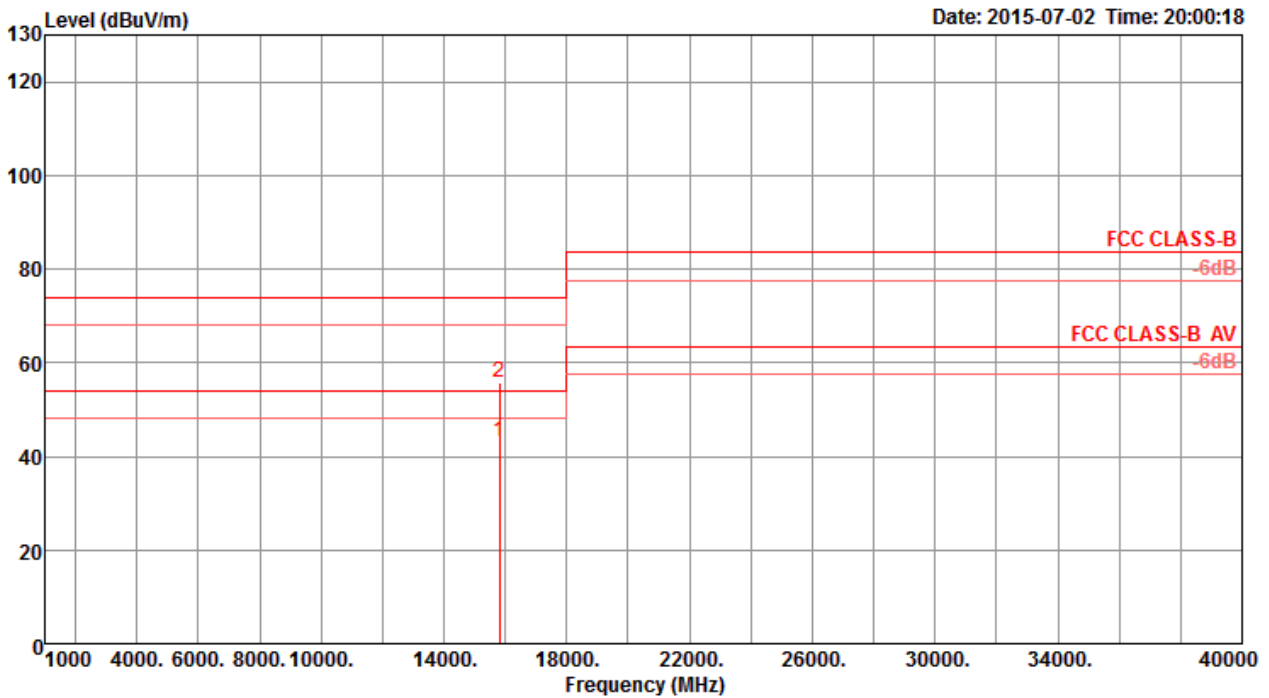
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11339.80	53.05	74.00	-20.95	39.81	9.14	38.90	34.80	Peak	150	218	VERTICAL
2	11339.85	40.86	54.00	-13.14	27.62	9.14	38.90	34.80	Average	150	218	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

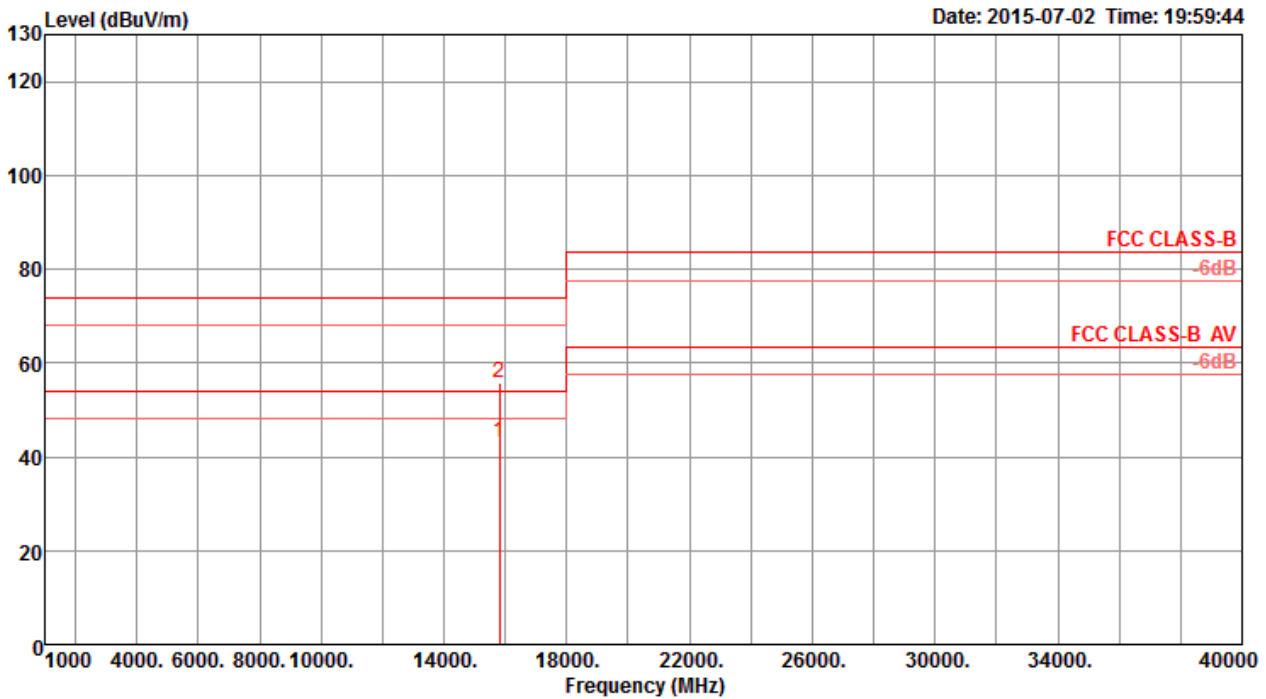
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15806.02	43.10	54.00	-10.90	29.76	10.80	37.87	35.33	Average	153	229	HORIZONTAL
2	15810.90	55.65	74.00	-18.35	42.31	10.80	37.87	35.33	Peak	153	229	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15806.18	43.26	54.00	-10.74	29.92	10.80	37.87	35.33	153	253	VERTICAL
2	15810.40	55.79	74.00	-18.21	42.45	10.80	37.87	35.33	153	253	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

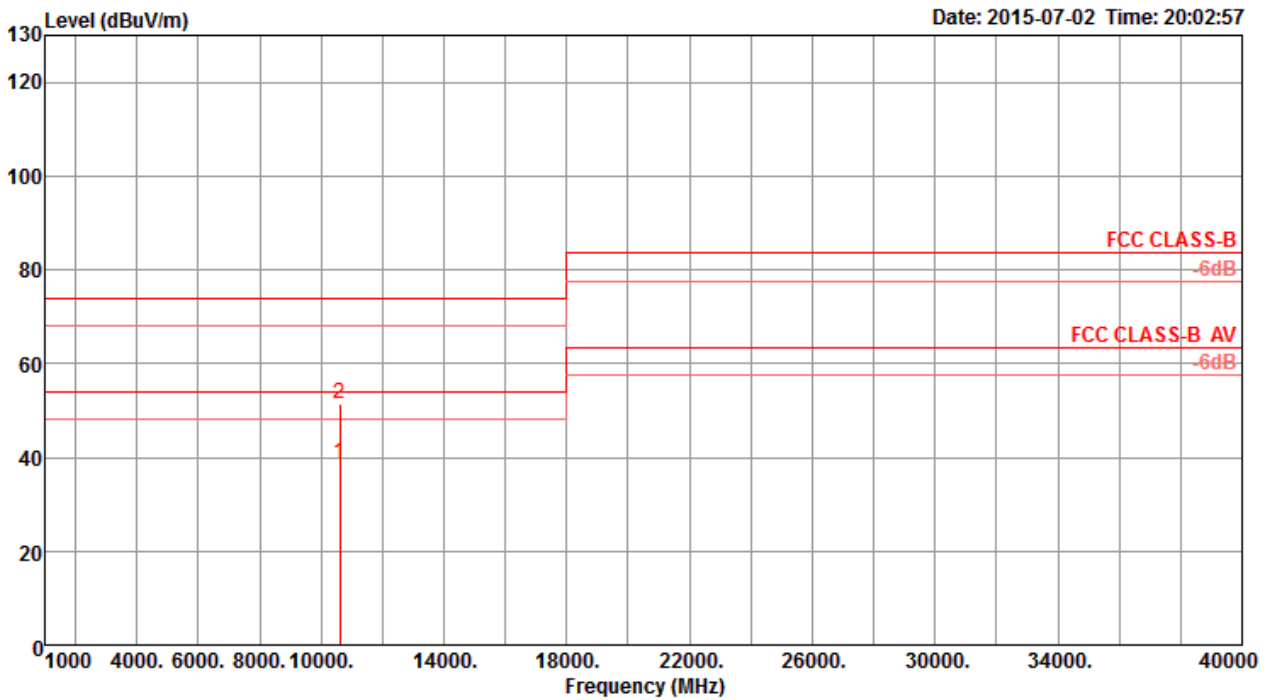
Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



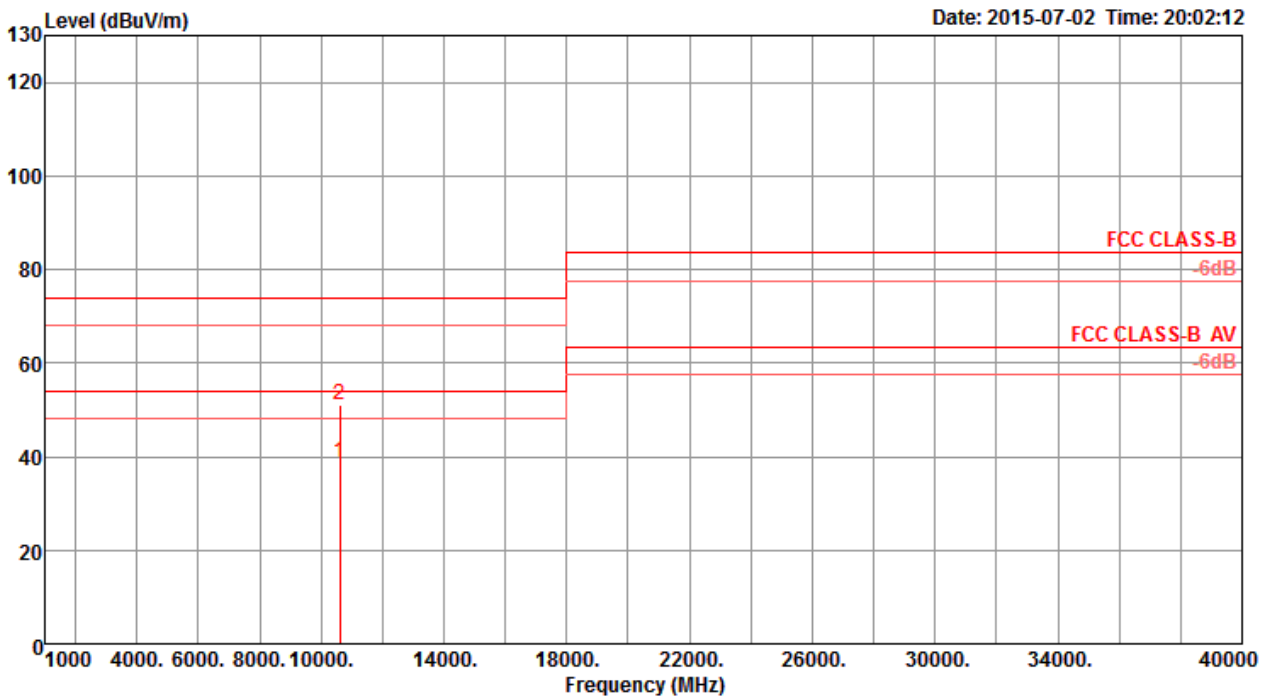
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10615.52	38.80	54.00	-15.20	26.52	8.65	38.58	34.95	Average	151	340	HORIZONTAL
2	10616.56	51.39	74.00	-22.61	39.11	8.65	38.58	34.95	Peak	151	340	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10617.46	38.82	54.00	-15.18	26.54	8.65	38.58	34.95	Average	151	356 VERTICAL
2	10619.72	51.13	74.00	-22.87	38.85	8.65	38.58	34.95	Peak	151	356 VERTICAL

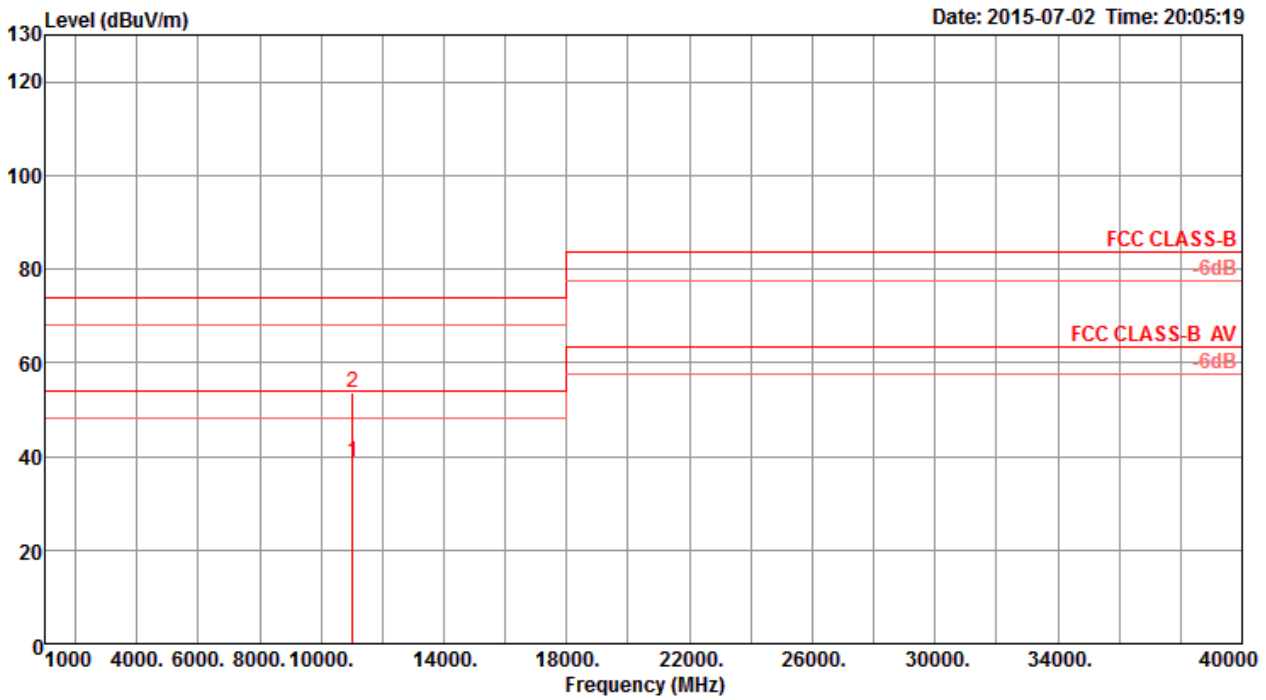
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

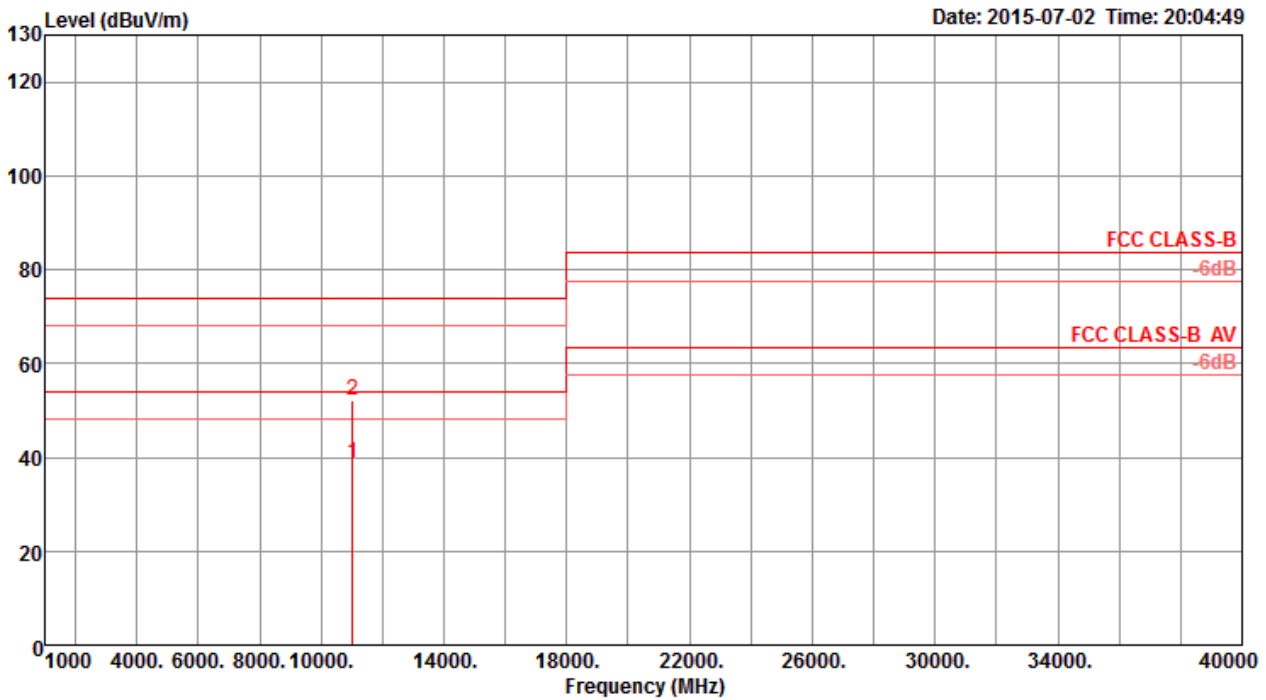
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11015.72	38.68	54.00	-15.32	26.01	8.94	38.52	34.79	Average	151	278	HORIZONTAL
2	11021.16	53.42	74.00	-20.58	40.75	8.94	38.52	34.79	Peak	151	278	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

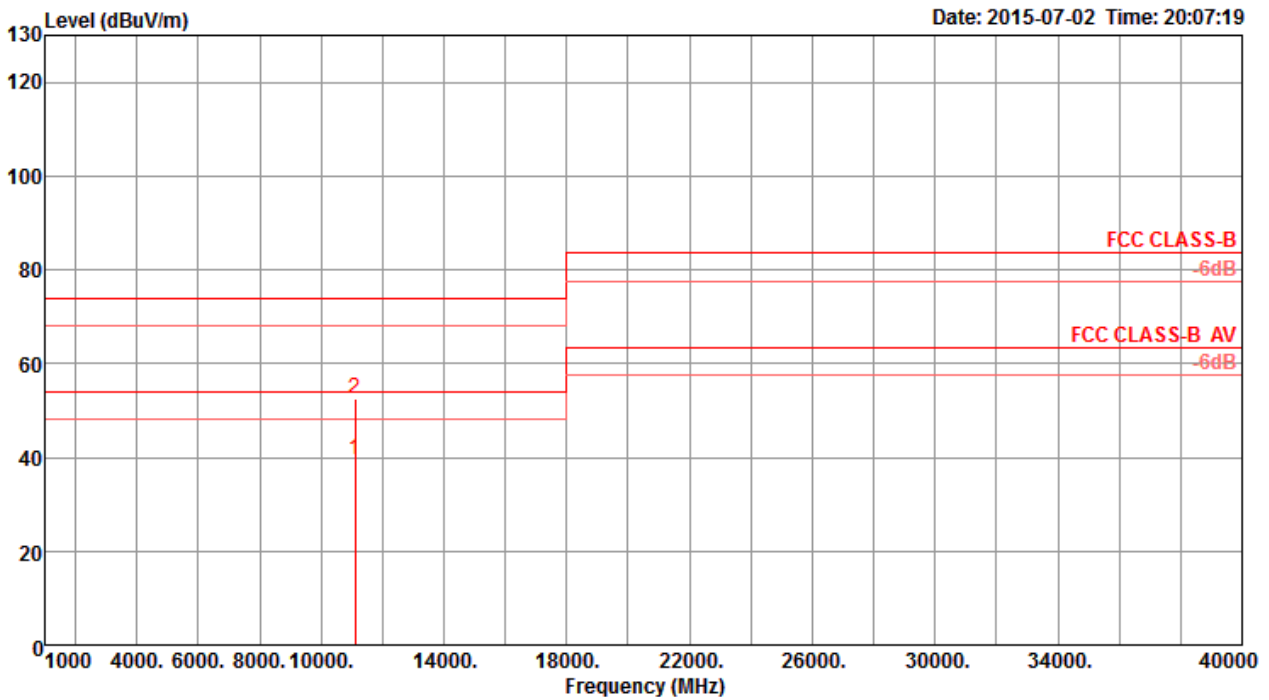
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11023.52	38.87	54.00	-15.13	26.17	8.95	38.54	34.79	Average	151	285	VERTICAL
2	11024.30	52.17	74.00	-21.83	39.47	8.95	38.54	34.79	Peak	151	285	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

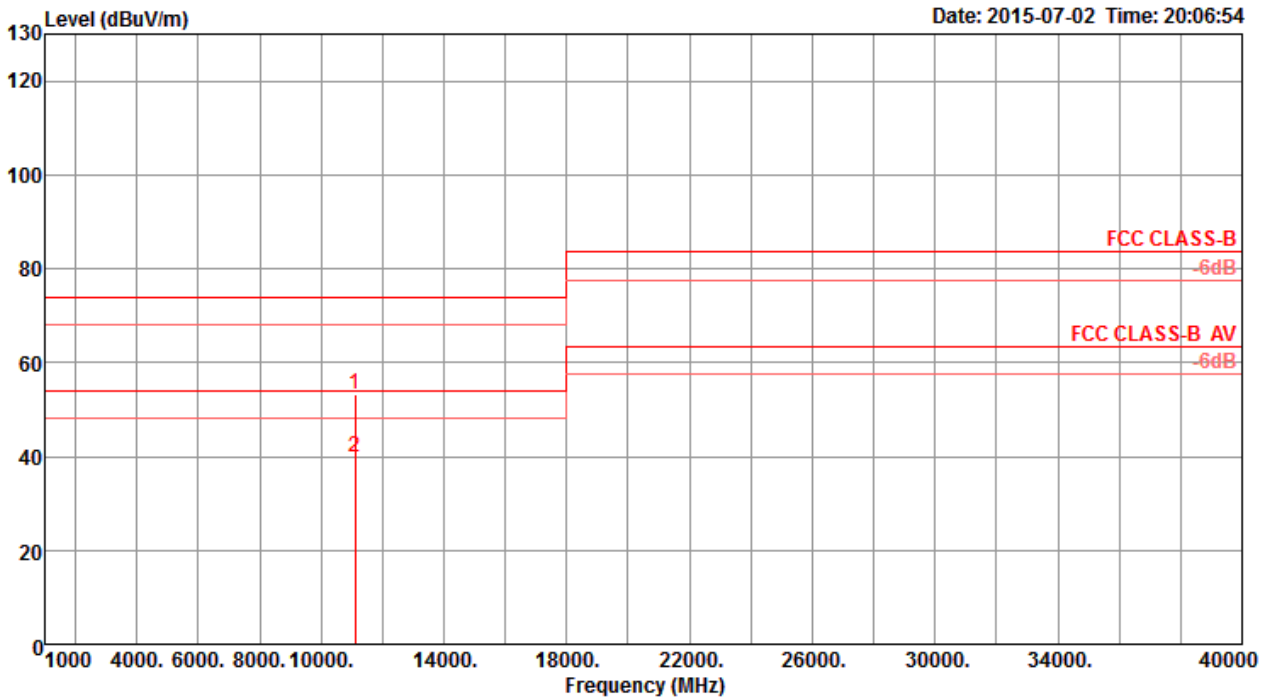
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11099.16	39.53	54.00	-14.47	26.71	8.99	38.62	34.79	Average	151	247	HORIZONTAL
2	11104.76	52.63	74.00	-21.37	39.81	8.99	38.62	34.79	Peak	151	247	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

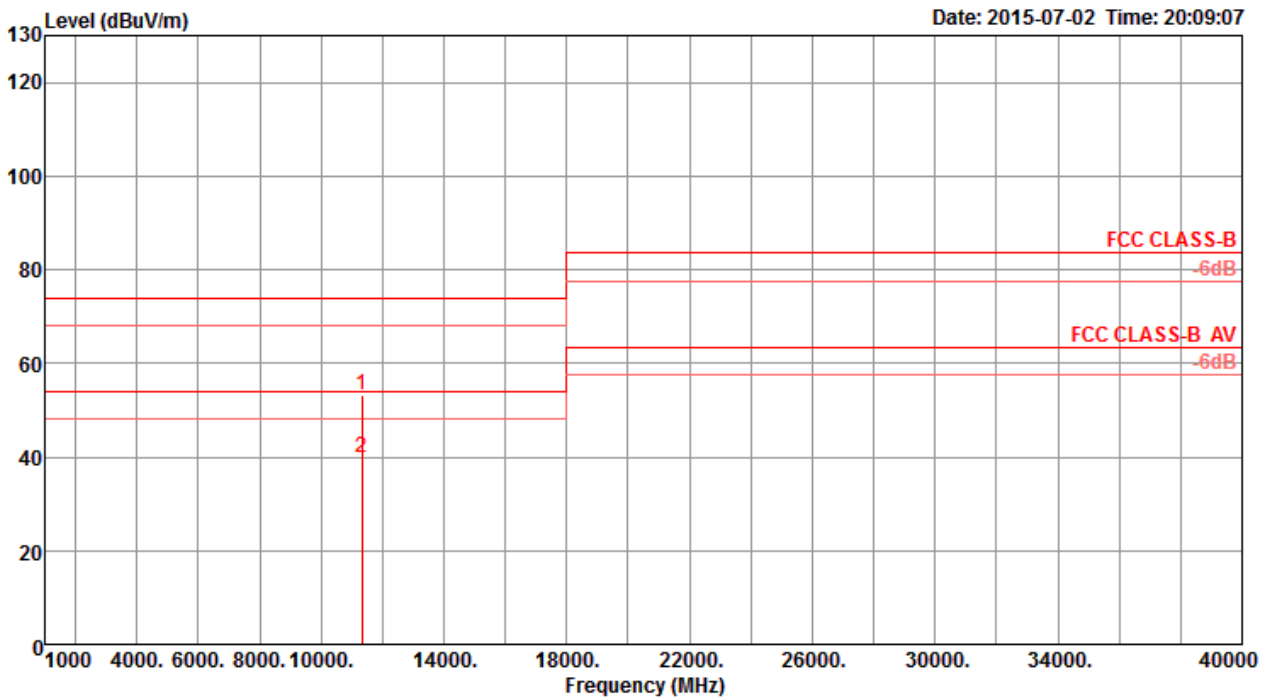
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11097.46	53.23	74.00	-20.77	40.41	8.99	38.62	34.79 Peak	151	252	VERTICAL
2	11098.88	39.83	54.00	-14.17	27.01	8.99	38.62	34.79 Average	151	252	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

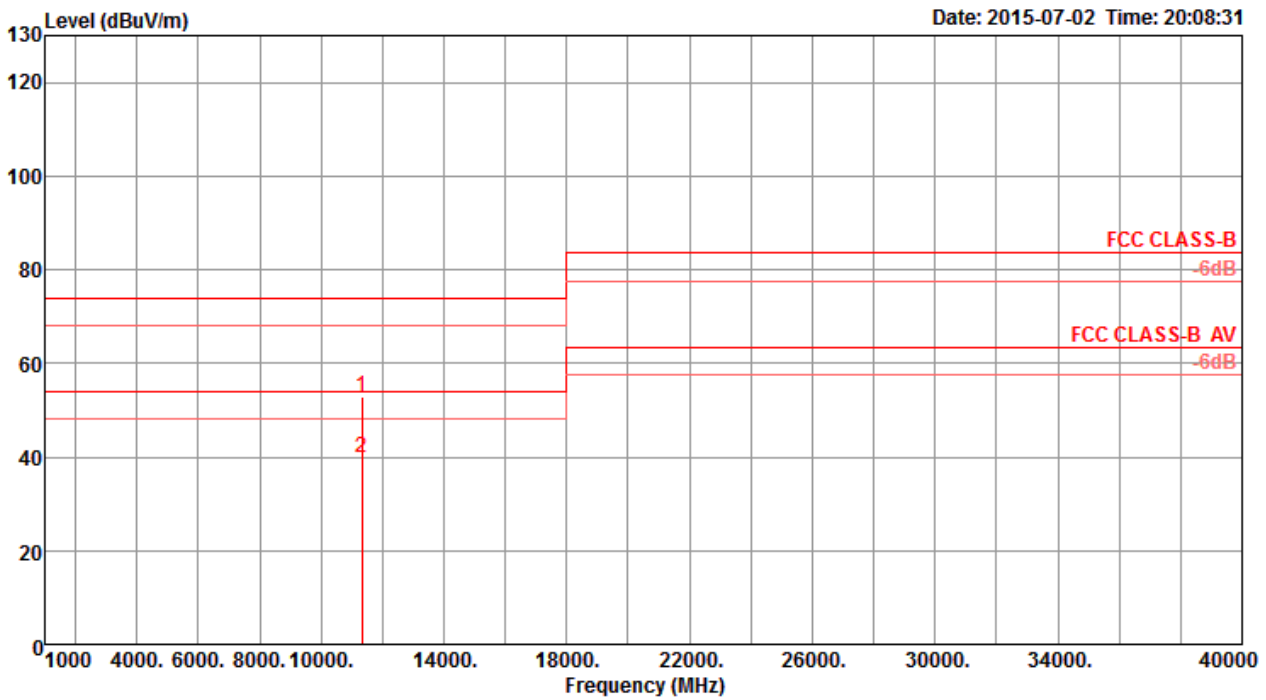
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11335.70	53.16	74.00	-20.84	39.92	9.14	38.90	34.80	Peak	151	195	HORIZONTAL
2	11338.90	39.99	54.00	-14.01	26.75	9.14	38.90	34.80	Average	151	195	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V

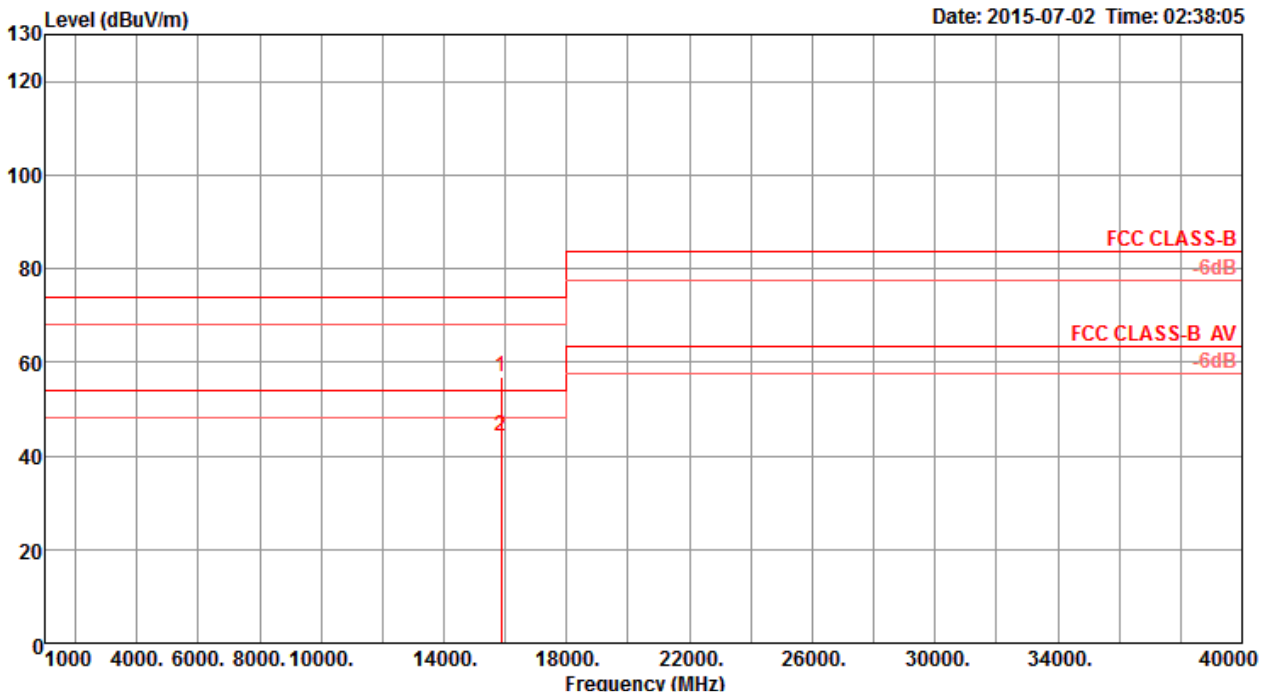


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11335.26	52.93	74.00	-21.07	39.69	9.14	38.90	34.80	Peak	151	215	VERTICAL
2	11338.38	39.80	54.00	-14.20	26.56	9.14	38.90	34.80	Average	151	215	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



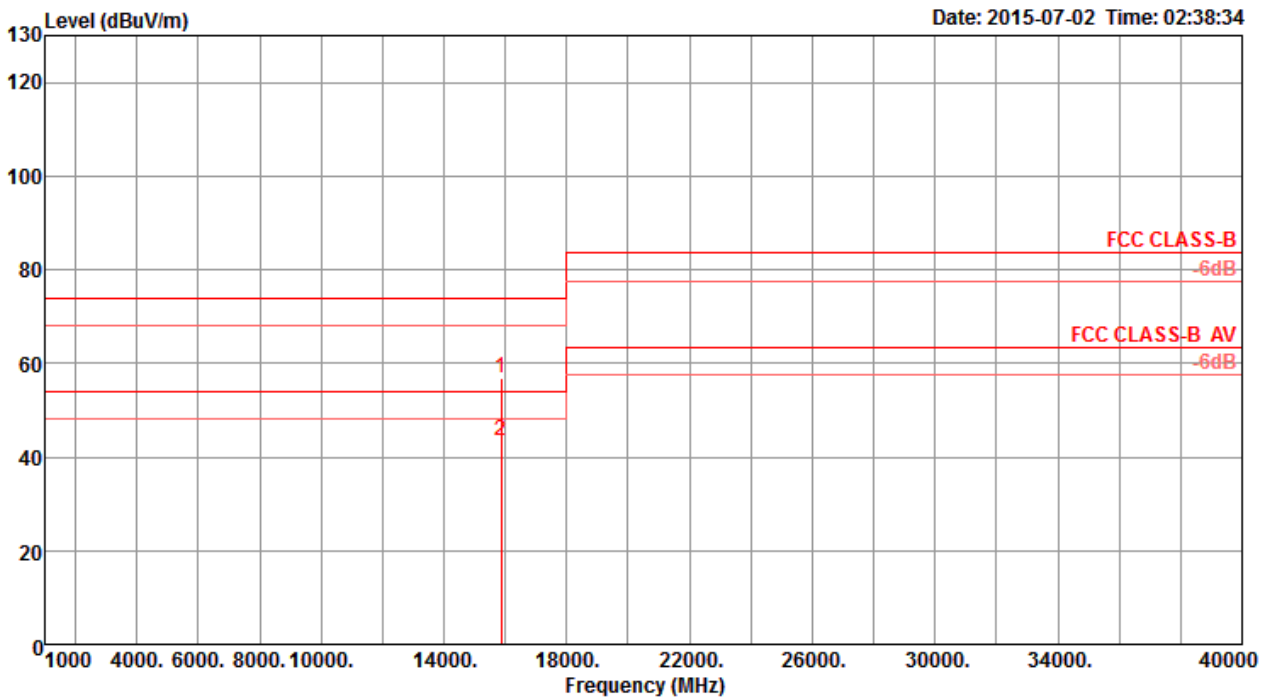
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15870.24	57.02	74.00	-16.98	43.79	10.81	37.77	35.35	Peak	150	170	HORIZONTAL
2	15870.41	44.06	54.00	-9.94	30.83	10.81	37.77	35.35	Average	150	170	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

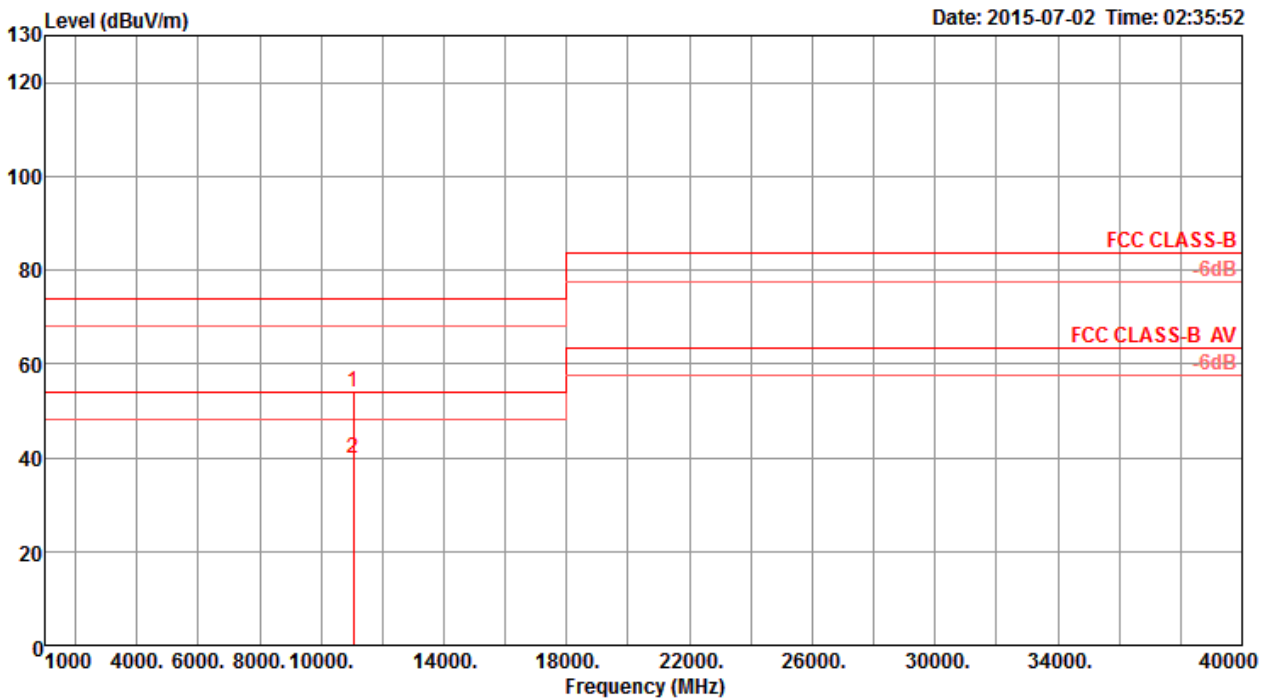
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15869.90	56.82	74.00	-17.18	43.59	10.81	37.77	35.35	150	71	VERTICAL
2	15870.24	43.62	54.00	-10.38	30.39	10.81	37.77	35.35	150	71	VERTICAL

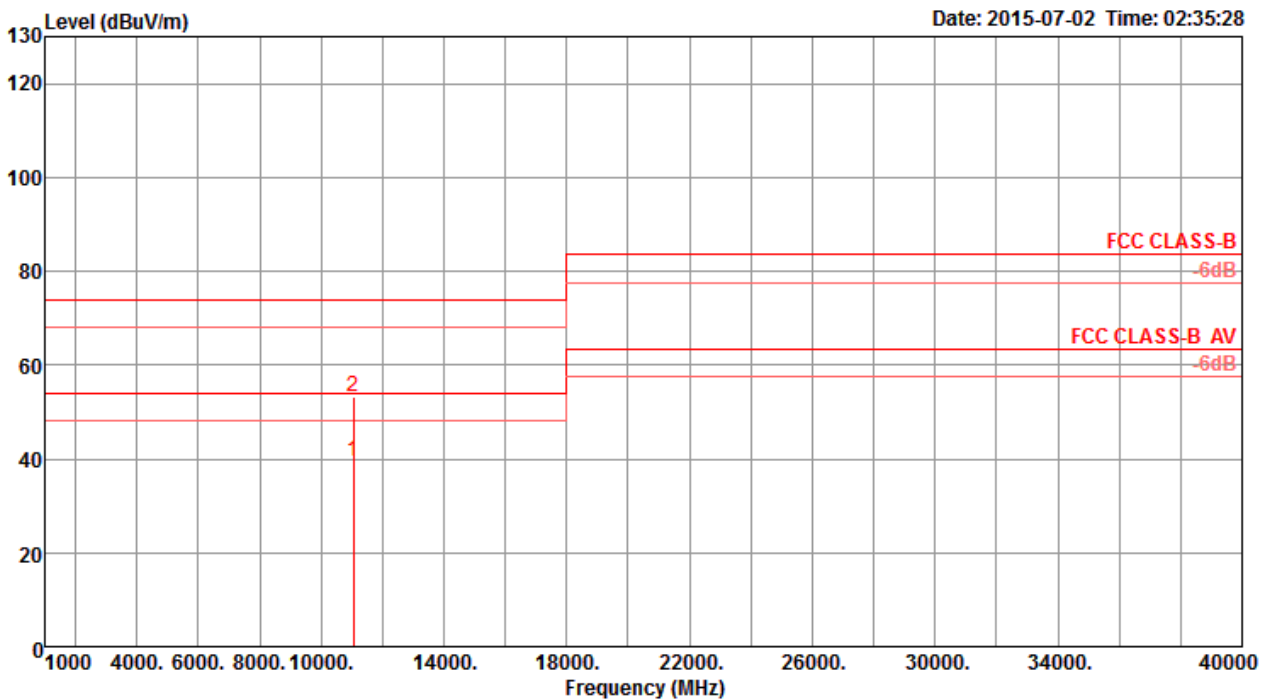
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

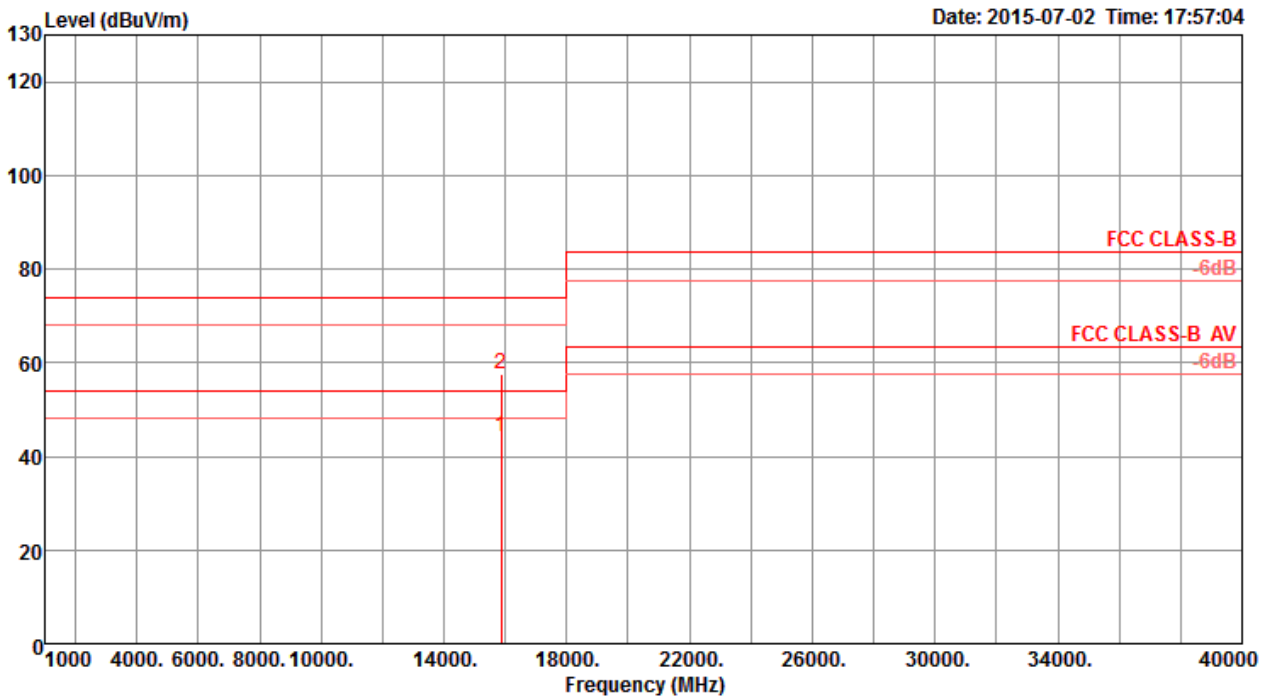
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11059.50	39.52	54.00	-14.48	26.76	8.97	38.58	34.79 Average	150	160	VERTICAL
2	11060.12	53.29	74.00	-20.71	40.53	8.97	38.58	34.79 Peak	150	160	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

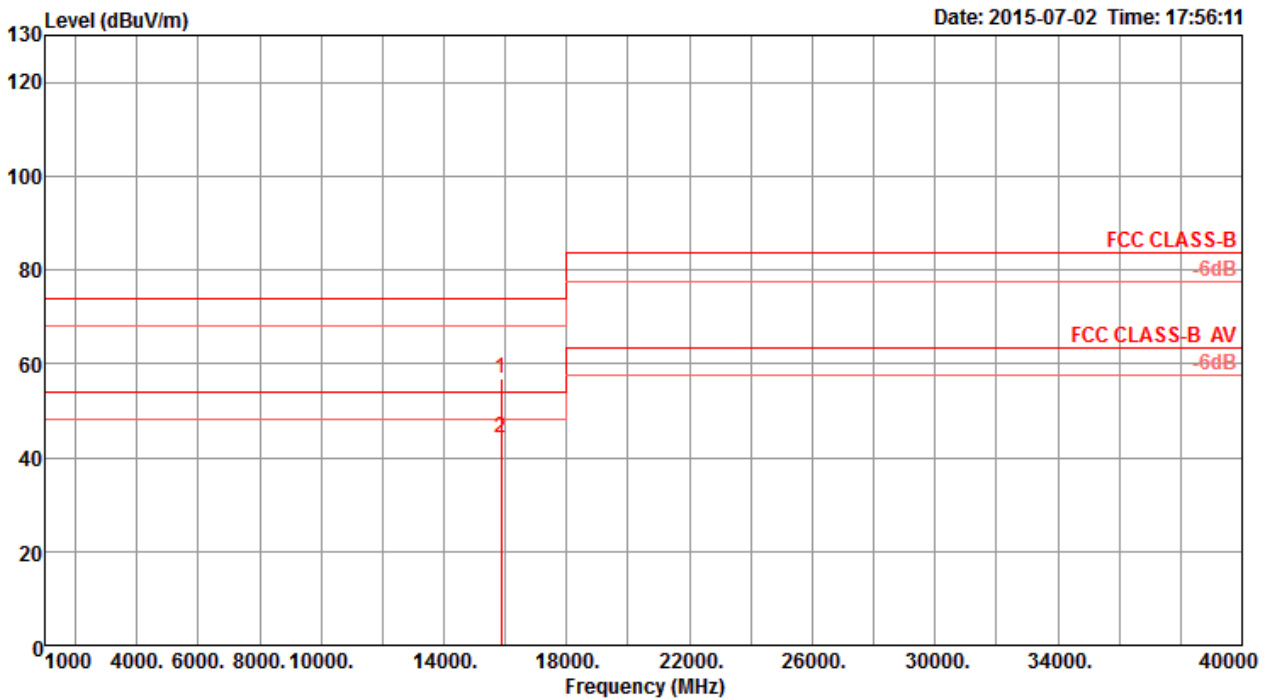
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15865.08	44.13	54.00	-9.87	30.88	10.81	37.79	35.35	Average	155	293 HORIZONTAL
2	15875.04	57.68	74.00	-16.32	44.45	10.81	37.77	35.35	Peak	155	293 HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15868.00	57.02	74.00	-16.98	43.79	10.81	37.77	35.35 Peak	170	5	VERTICAL
2	15875.48	44.01	54.00	-9.99	30.78	10.81	37.77	35.35 Average	170	5	VERTICAL

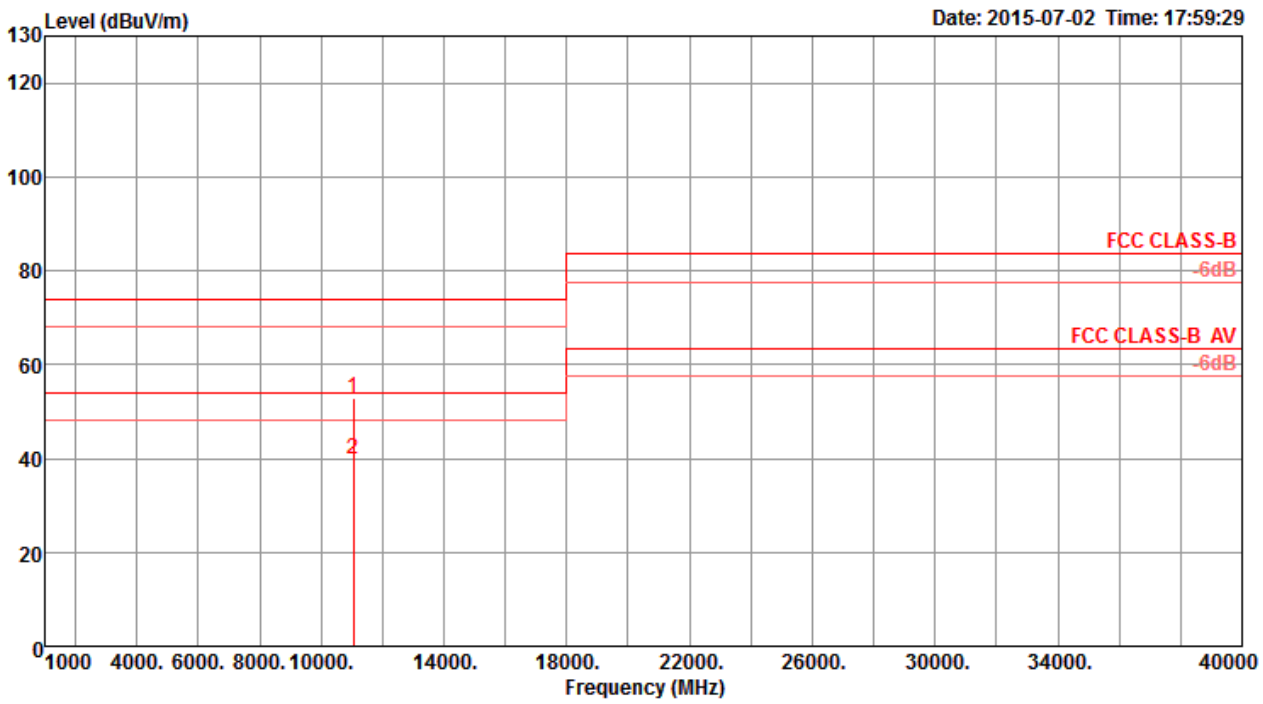
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

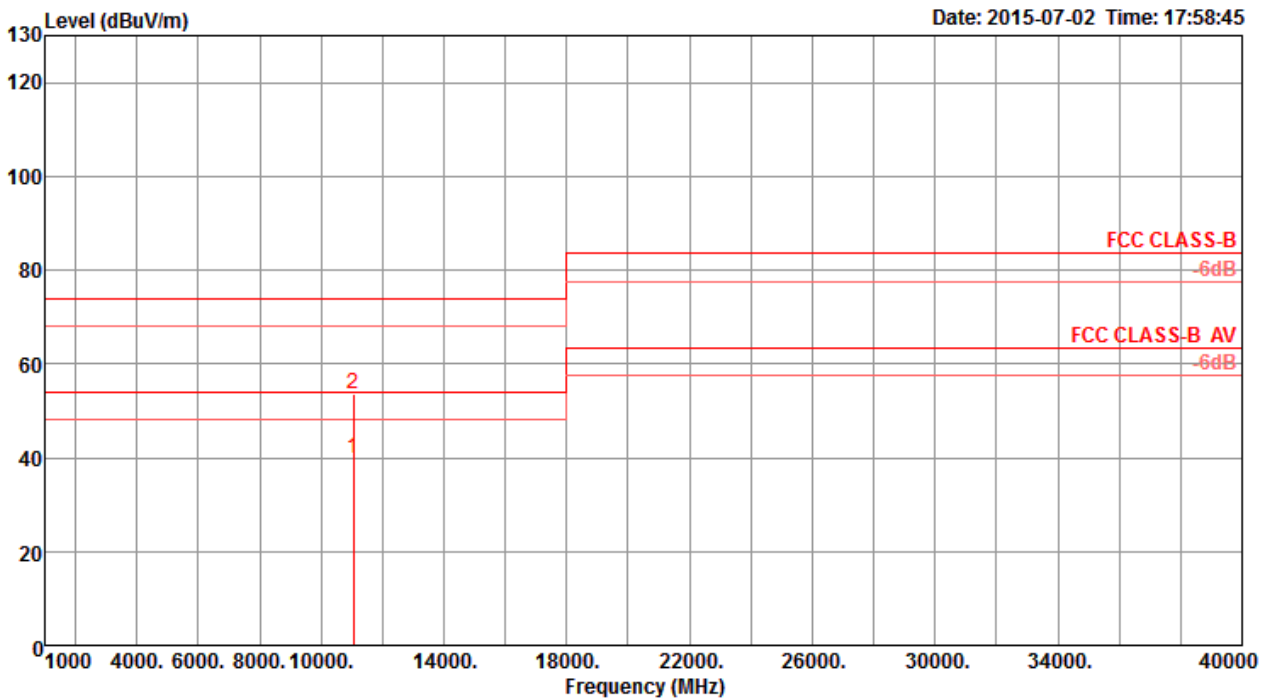
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11054.00	52.71	74.00	-21.29	39.98	8.96	38.56	34.79	Peak	152	322	HORIZONTAL
2	11055.16	39.90	54.00	-14.10	27.17	8.96	38.56	34.79	Average	152	322	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



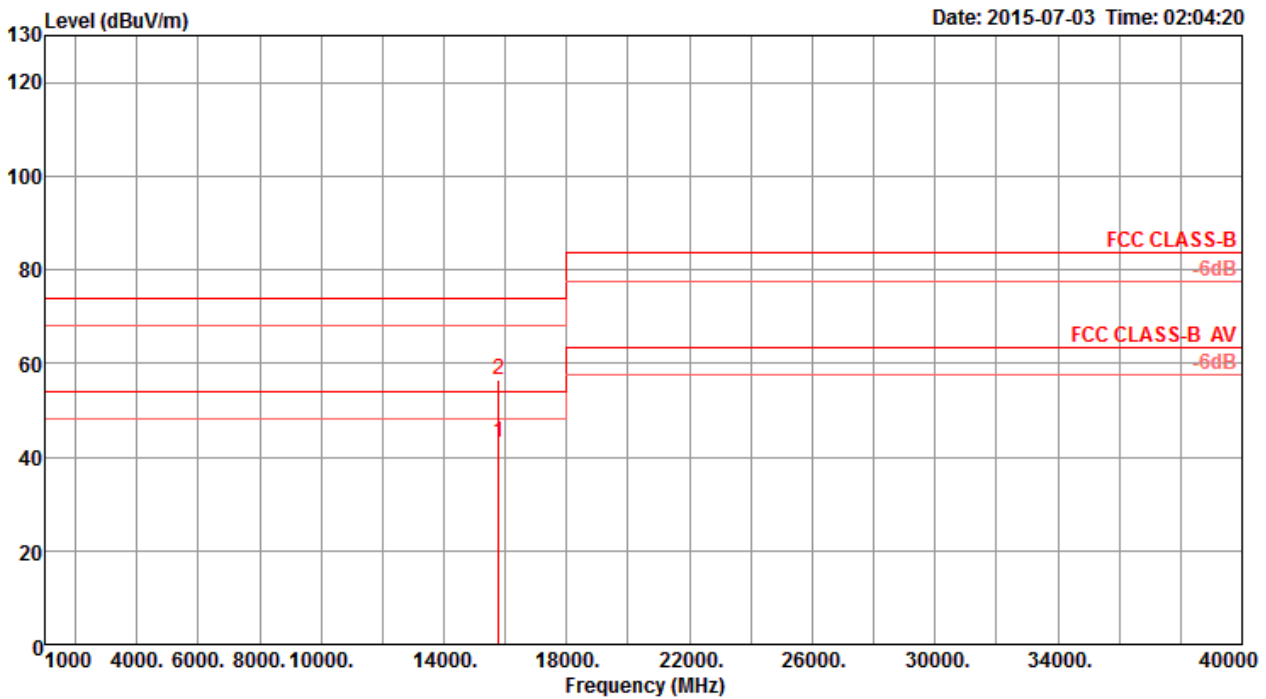
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11056.40	39.96	54.00	-14.04	27.20	8.97	38.58	34.79	169	87	VERTICAL
2	11061.76	53.66	74.00	-20.34	40.90	8.97	38.58	34.79	169	87	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



For Beamforming

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H

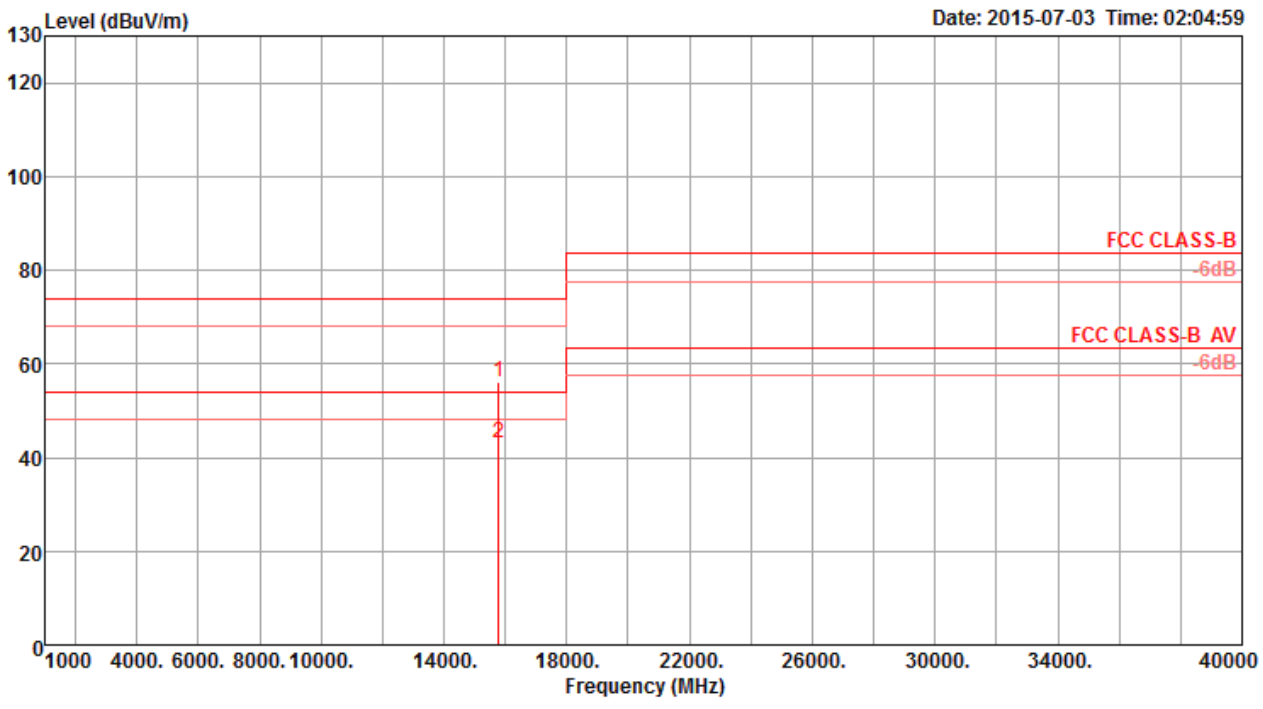


Date: 2015-07-03 Time: 02:04:20

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15777.85	43.26	54.00	-10.74	29.87	10.80	37.91	35.32	150	179	HORIZONTAL
2	15779.60	56.51	74.00	-17.49	43.12	10.80	37.91	35.32	150	179	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

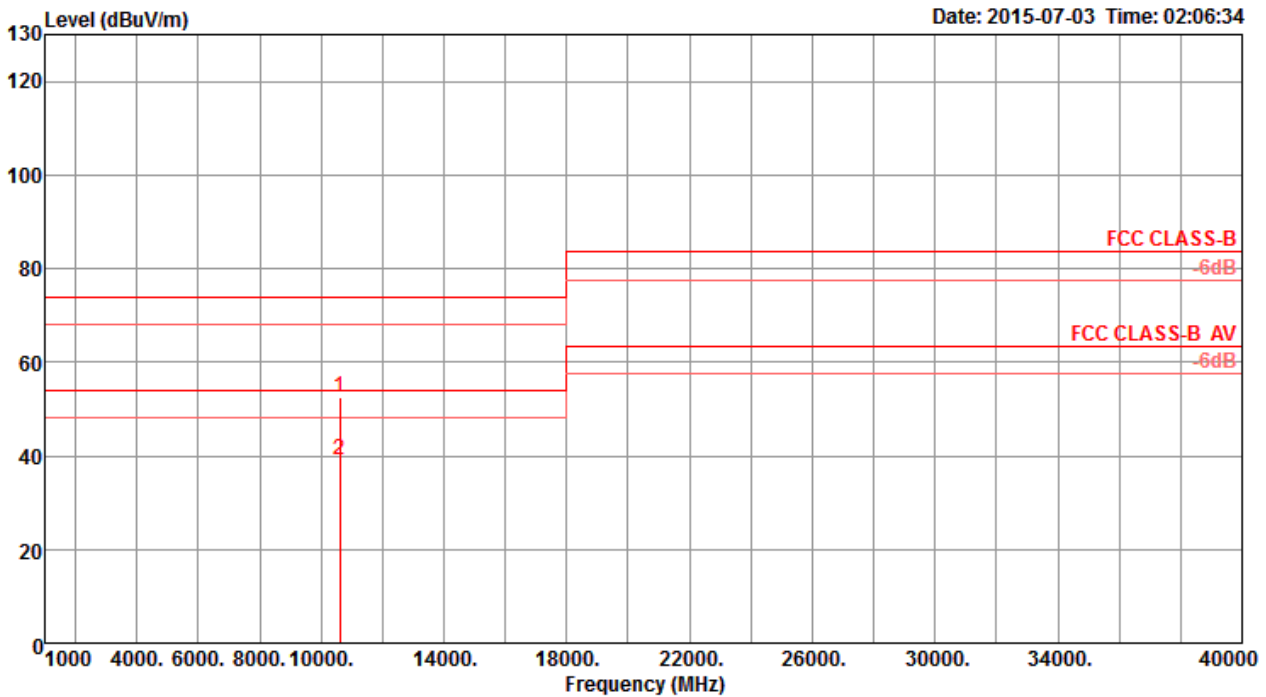
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15777.59	55.98	74.00	-18.02	42.59	10.80	37.91	35.32 Peak	150	226	VERTICAL
2	15778.15	43.11	54.00	-10.89	29.72	10.80	37.91	35.32 Average	150	226	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

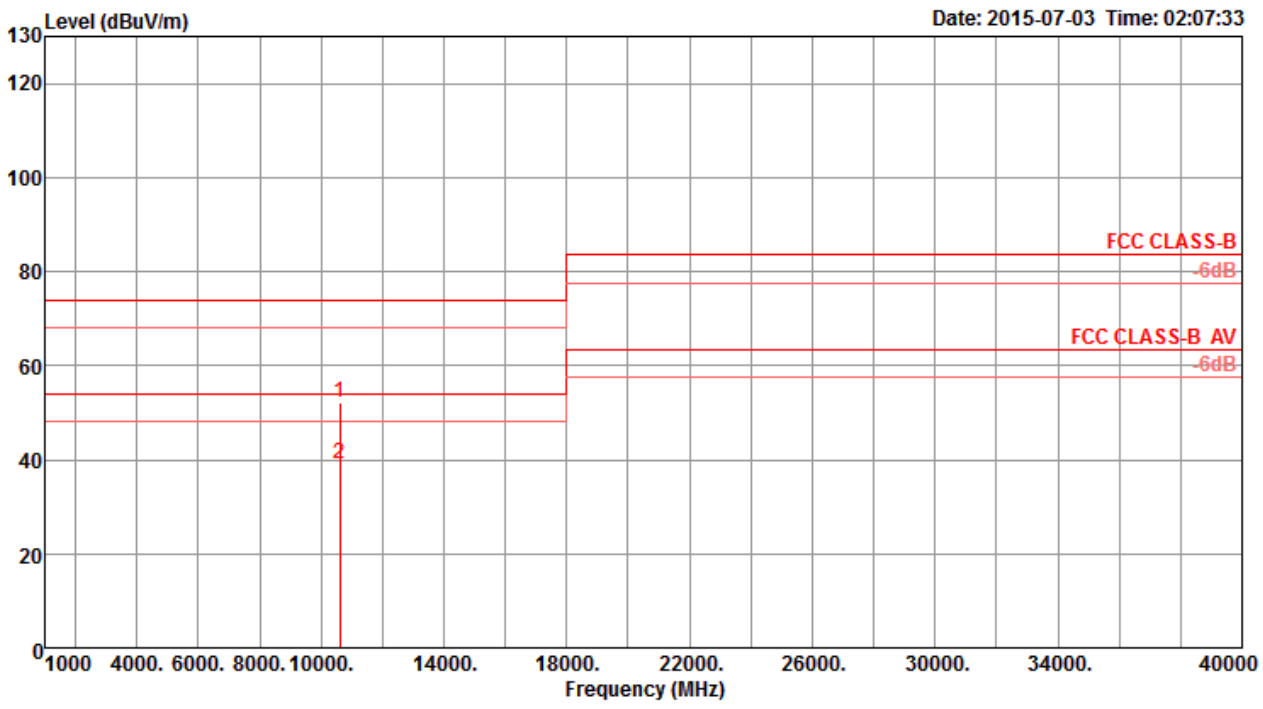
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10599.19	52.57	74.00	-21.43	40.31	8.64	38.58	34.96	Peak	149	200	HORIZONTAL
2	10600.08	39.23	54.00	-14.77	26.97	8.64	38.58	34.96	Average	149	200	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

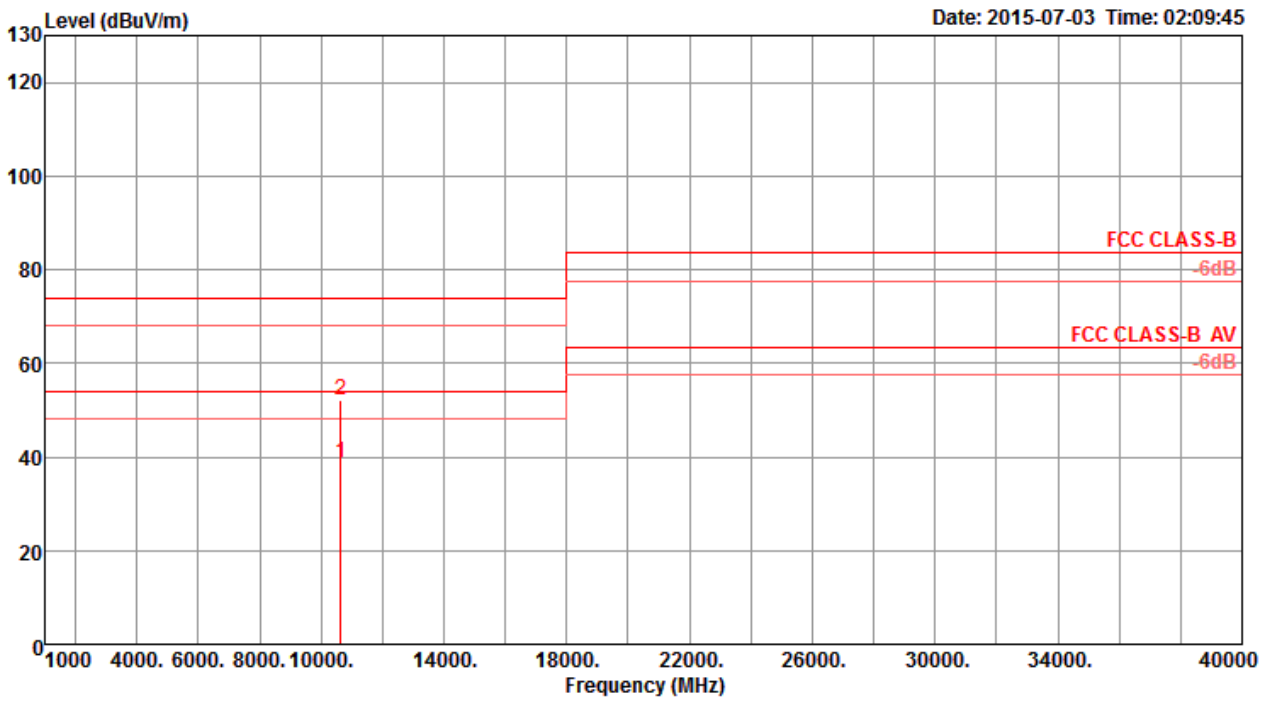
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	10598.48	52.24	74.00	-21.76	39.98	8.64	38.58	34.96	149	200	VERTICAL
2	10599.64	39.01	54.00	-14.99	26.75	8.64	38.58	34.96	149	200	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H

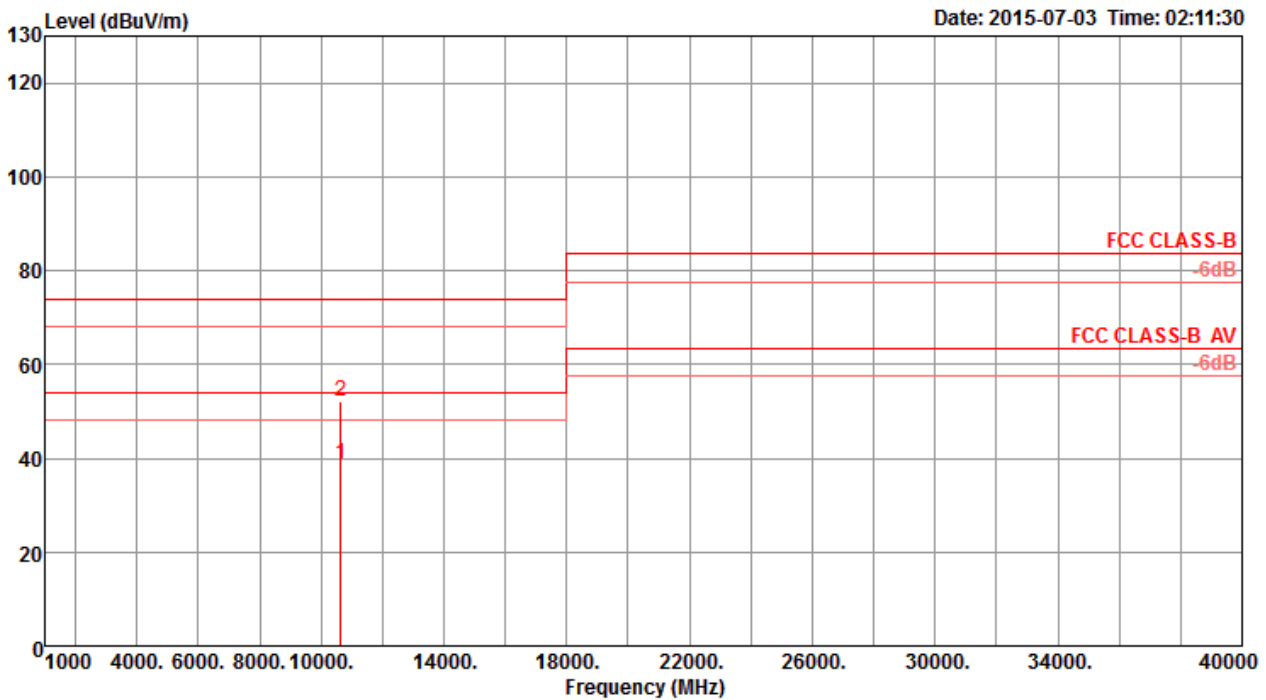


Date: 2015-07-03 Time: 02:09:45

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10640.89	38.77	54.00	-15.23	26.48	8.66	38.57	34.94	Average	156	182 HORIZONTAL
2	10640.90	52.08	74.00	-21.92	39.79	8.66	38.57	34.94	Peak	156	182 HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

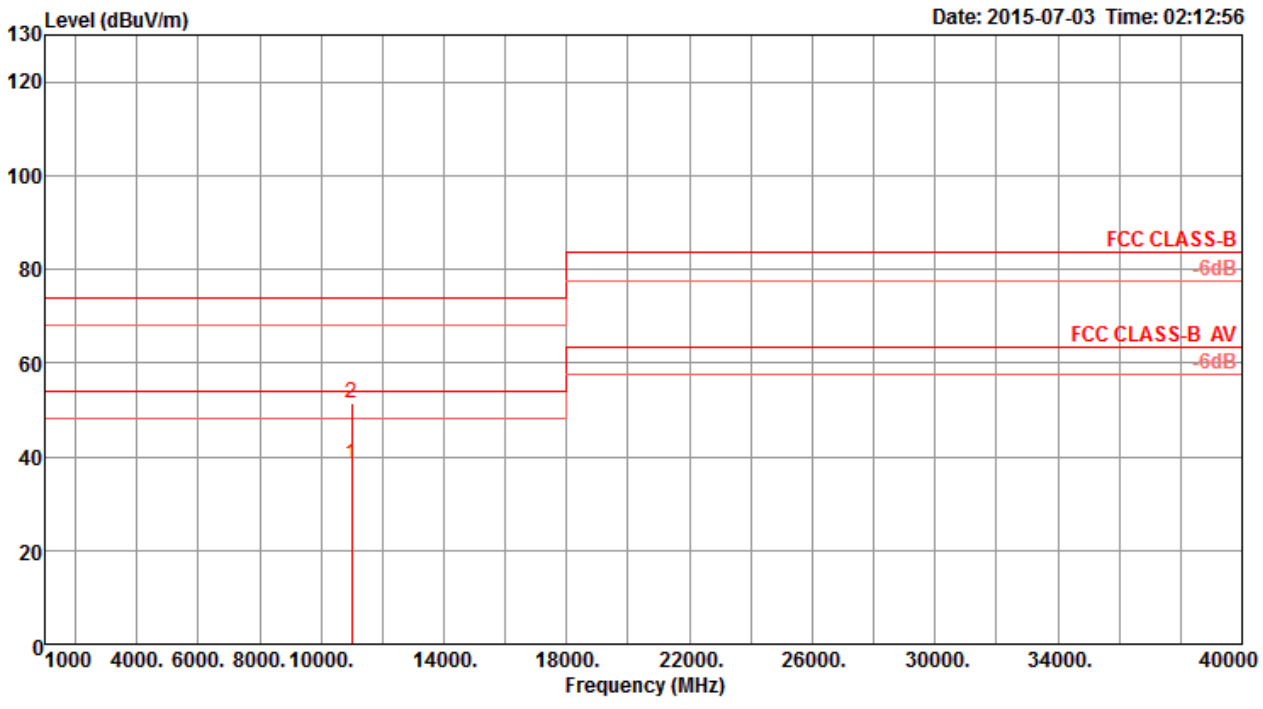
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10641.56	38.63	54.00	-15.37	26.34	8.66	38.57	34.94	155	338	VERTICAL
2	10642.06	52.29	74.00	-21.71	40.00	8.66	38.57	34.94	155	338	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10999.77	38.33	54.00	-15.67	25.69	8.93	38.50	34.79	155	319	HORIZONTAL
2	11000.53	51.39	74.00	-22.61	38.75	8.93	38.50	34.79	155	319	HORIZONTAL

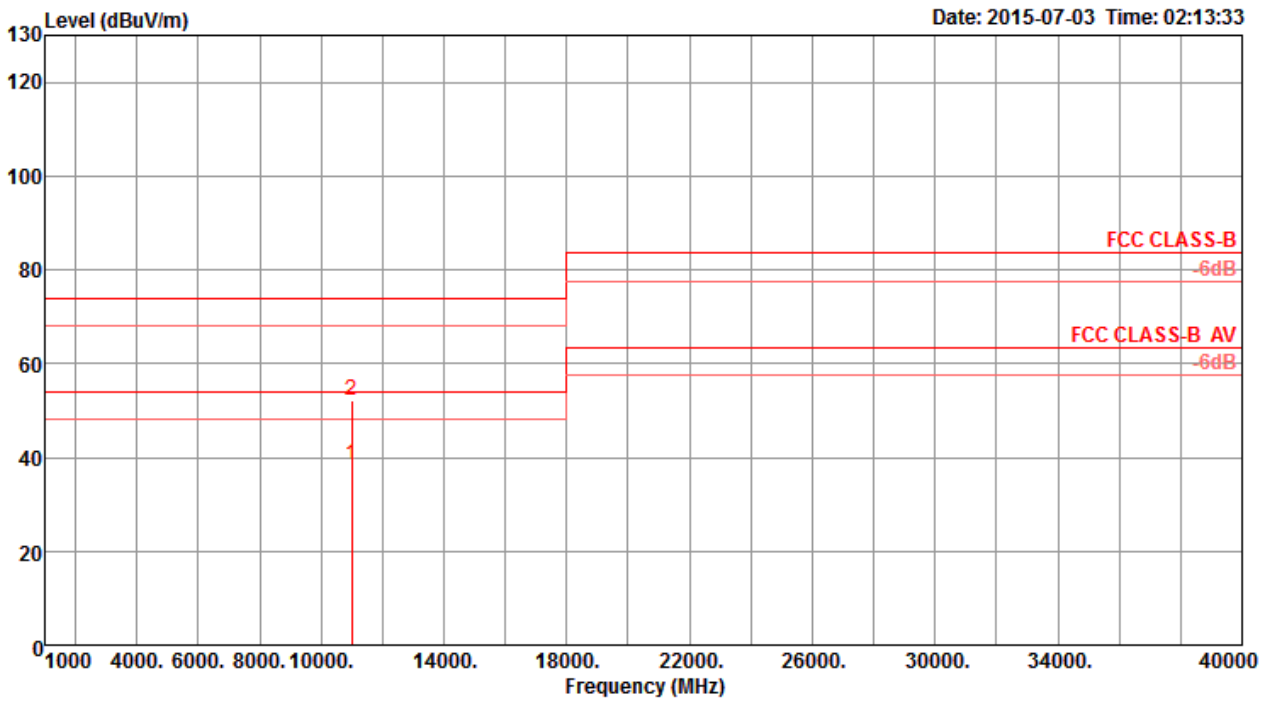
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V

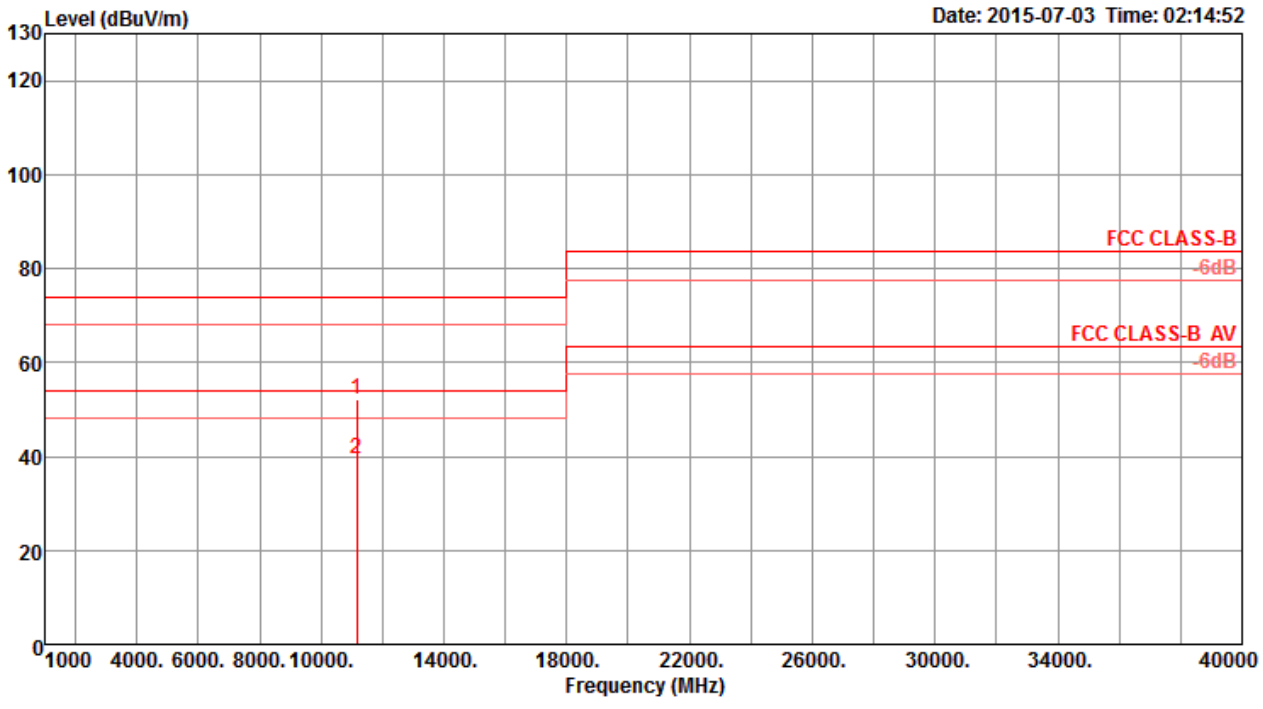


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10999.85	38.49	54.00	-15.51	25.85	8.93	38.50	34.79	Average	155	303 VERTICAL
2	11001.48	52.02	74.00	-21.98	39.38	8.93	38.50	34.79	Peak	155	303 VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11159.59	52.29	74.00	-21.71	39.34	9.04	38.70	34.79 Peak	154	292	HORIZONTAL
2	11160.17	39.61	54.00	-14.39	26.66	9.04	38.70	34.79 Average	154	292	HORIZONTAL

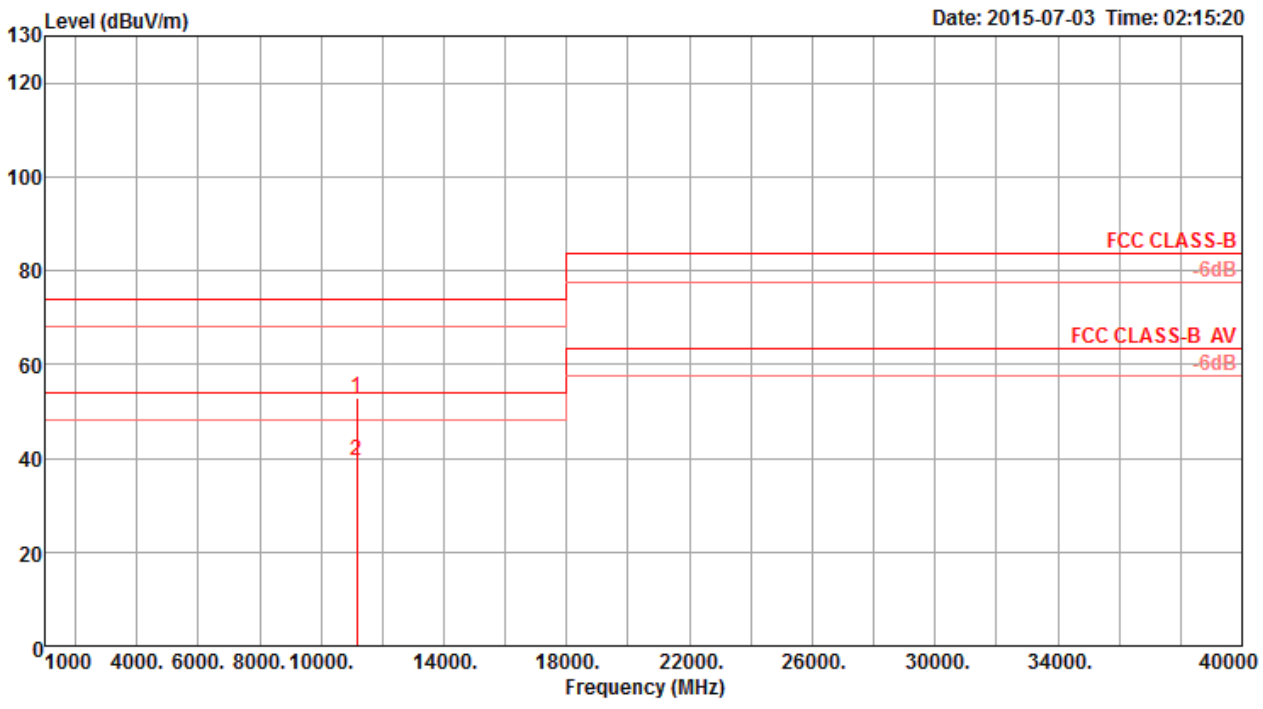
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11158.07	53.02	74.00	-20.98	40.07	9.04	38.70	34.79 Peak	154	275	VERTICAL
2	11161.77	39.51	54.00	-14.49	26.56	9.04	38.70	34.79 Average	154	275	VERTICAL

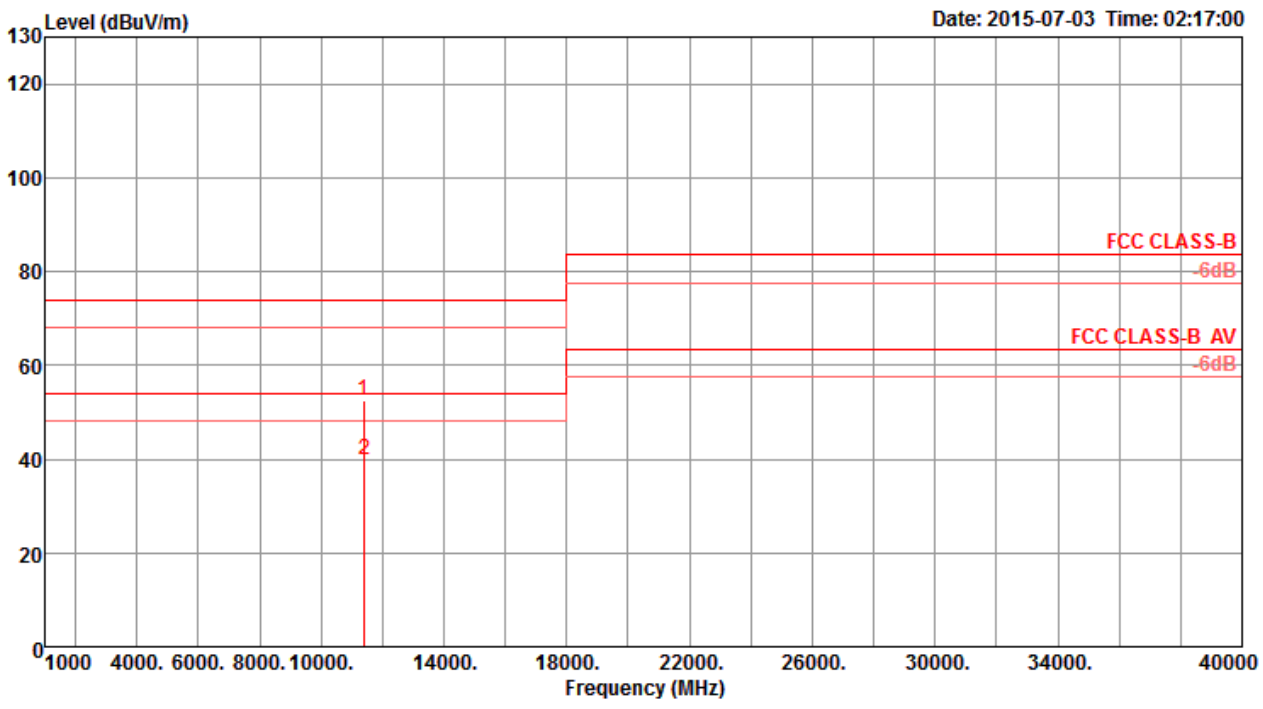
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

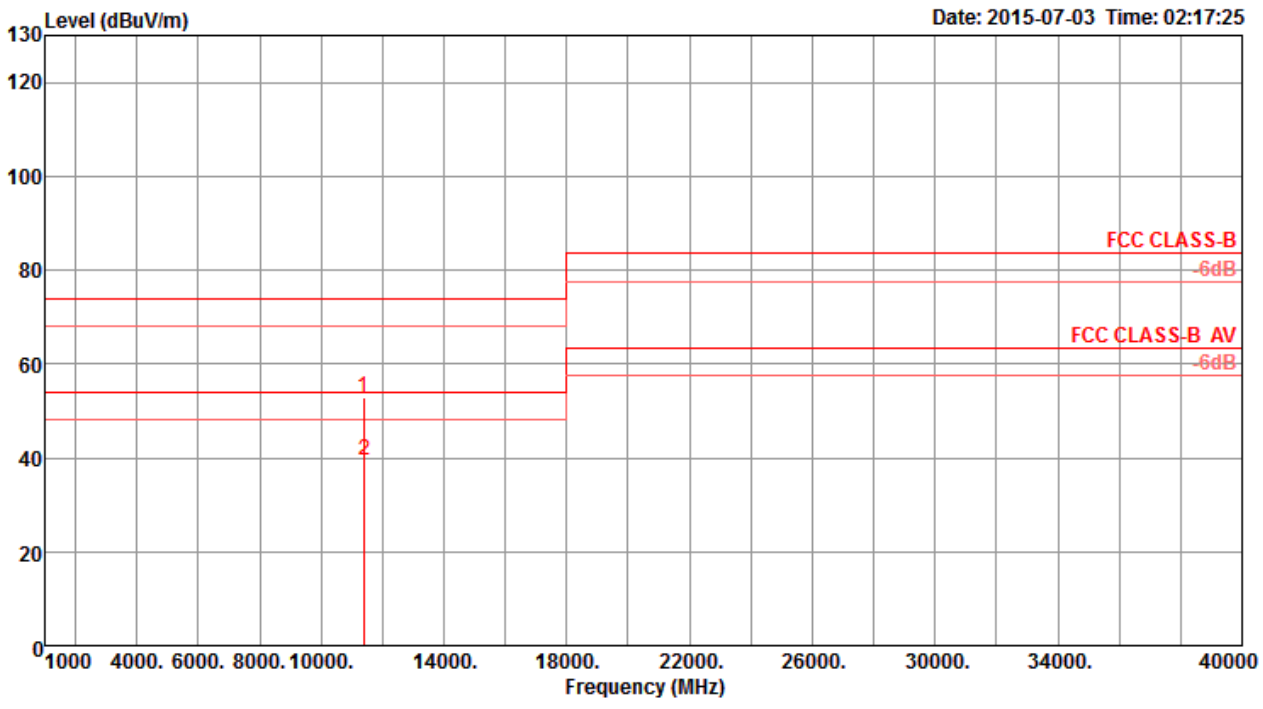
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11398.21	52.54	74.00	-21.46	39.17	9.19	38.98	34.80 Peak	153	267	HORIZONTAL
2	11401.57	39.75	54.00	-14.25	26.38	9.19	38.98	34.80 Average	153	267	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11399.12	52.71	74.00	-21.29	39.34	9.19	38.98	34.80 Peak	153	263	VERTICAL
2	11401.73	39.60	54.00	-14.40	26.23	9.19	38.98	34.80 Average	153	263	VERTICAL

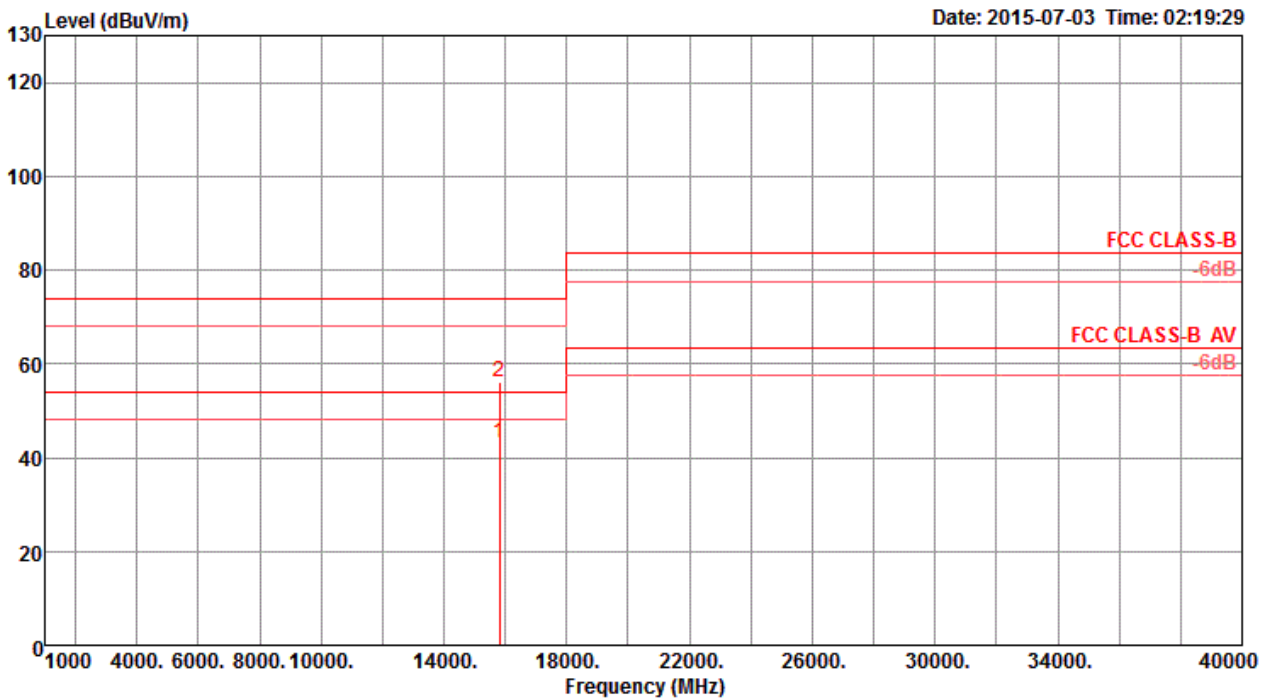
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15811.66	42.93	54.00	-11.07	29.59	10.80	37.87	35.33	Average	153	248	HORIZONTAL
2	15812.22	56.22	74.00	-17.78	42.88	10.80	37.87	35.33	Peak	153	248	HORIZONTAL

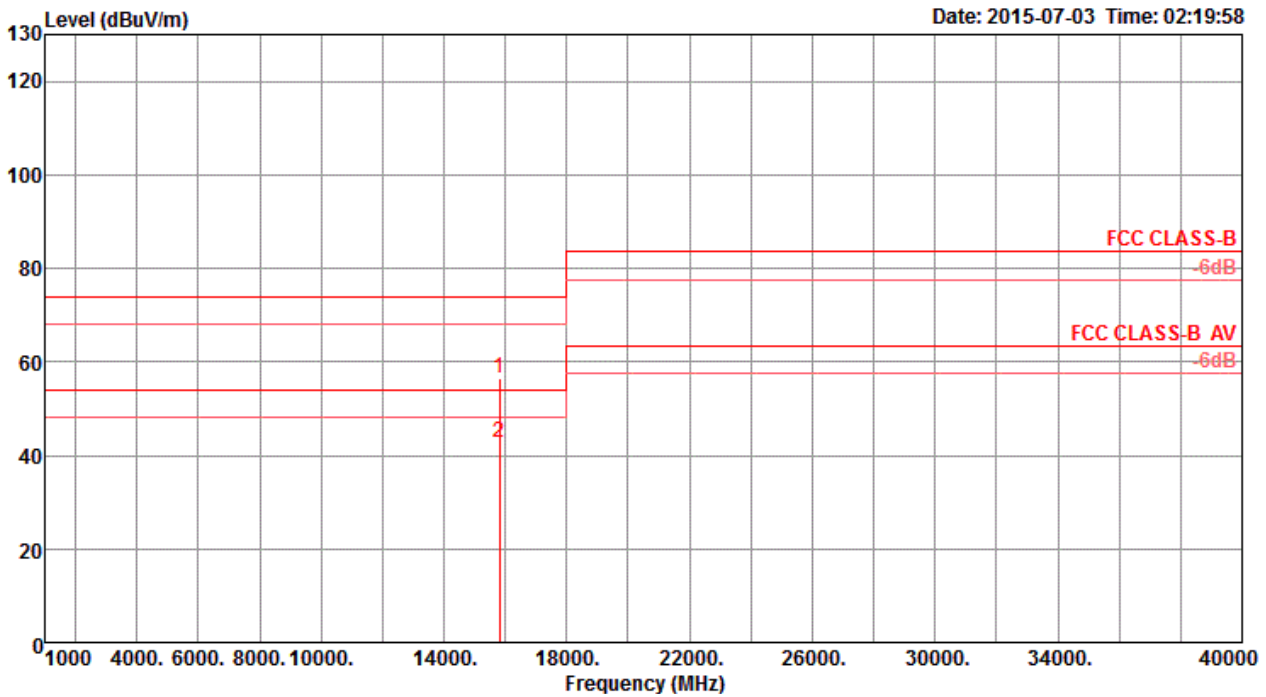
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15809.52	56.55	74.00	-17.45	43.21	10.80	37.87	35.33 Peak	152	245	VERTICAL
2	15810.92	42.83	54.00	-11.17	29.49	10.80	37.87	35.33 Average	152	245	VERTICAL

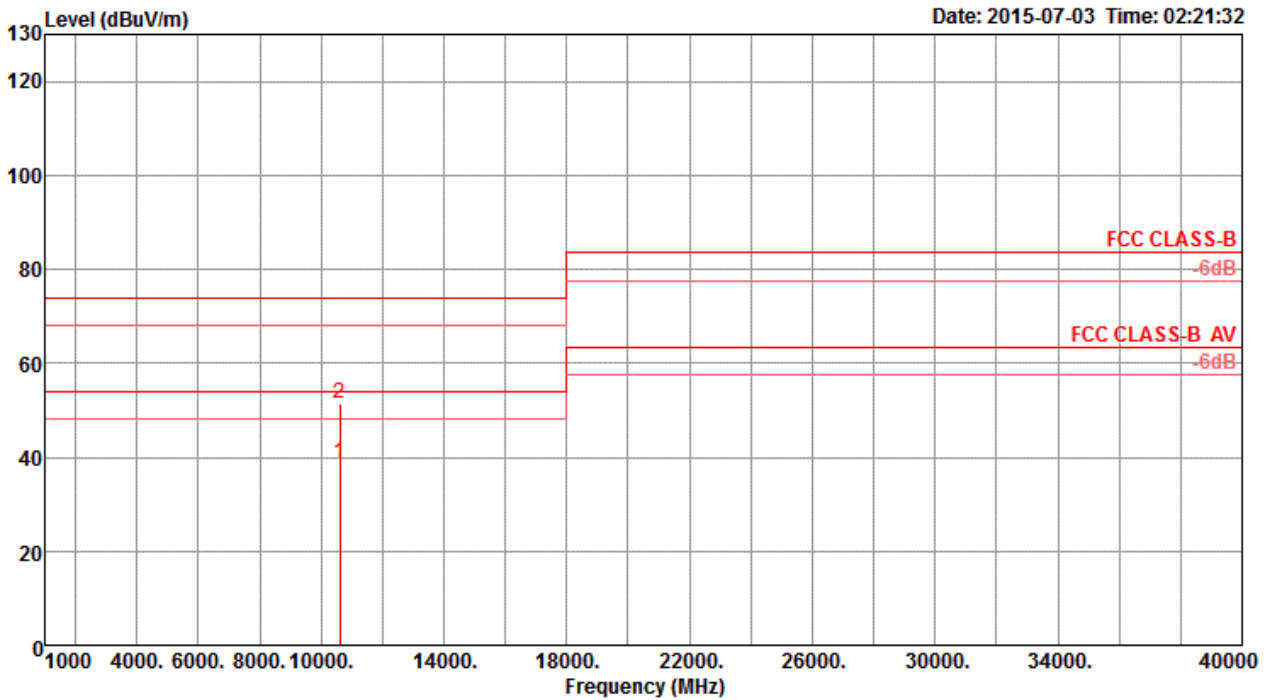
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

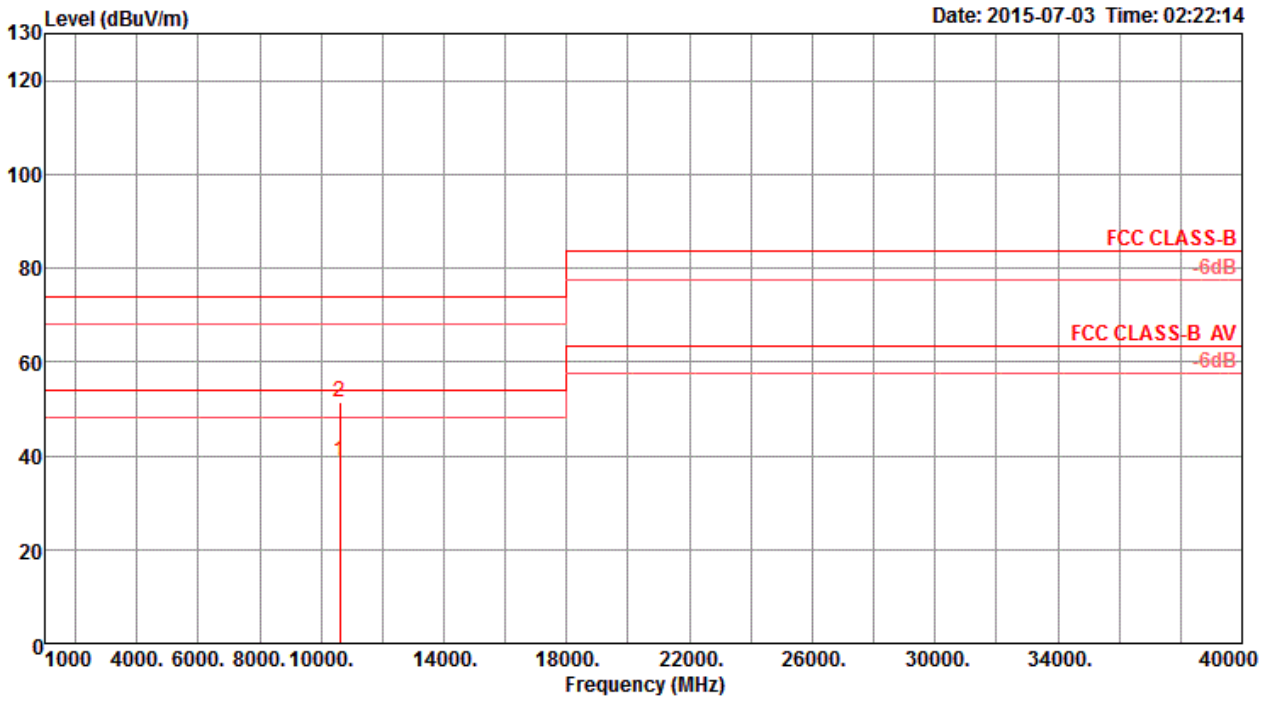
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10617.83	38.67	54.00	-15.33	26.39	8.65	38.58	34.95	152	233	HORIZONTAL
2	10620.40	51.48	74.00	-22.52	39.20	8.65	38.58	34.95	152	233	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V

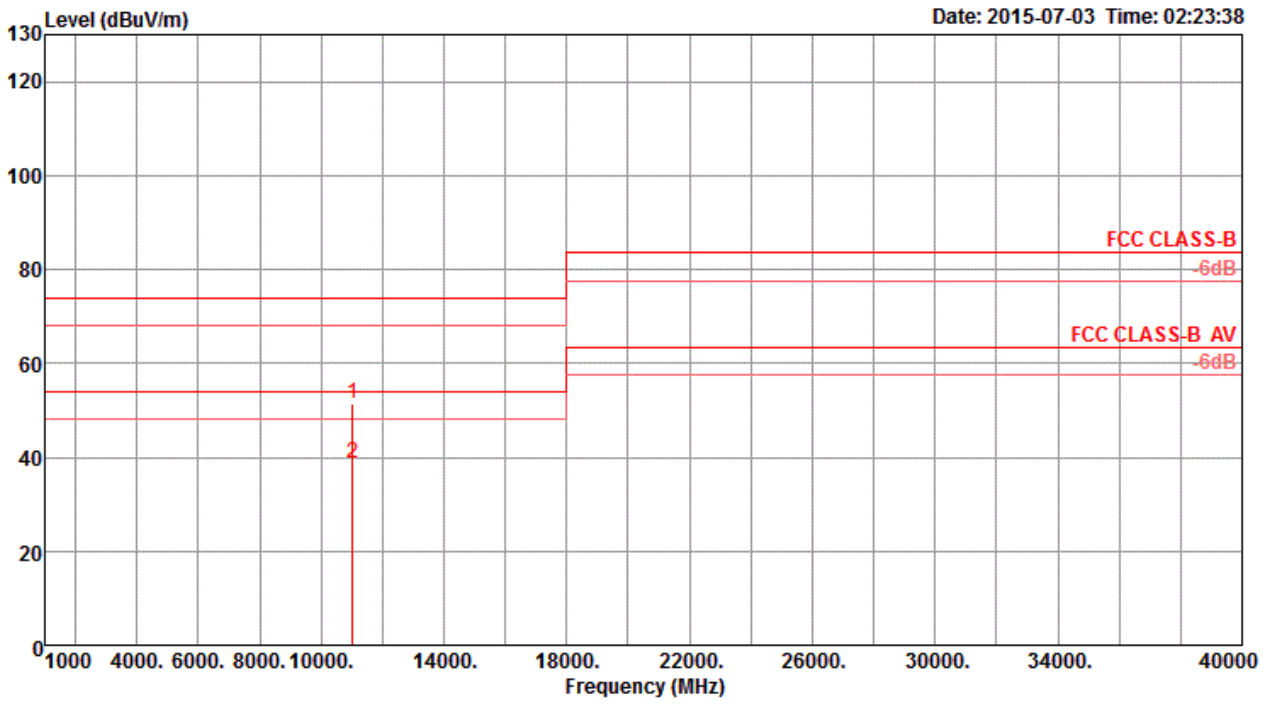


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10617.74	38.63	54.00	-15.37	26.35	8.65	38.58	34.95	152	223	VERTICAL
2	10621.33	51.43	74.00	-22.57	39.15	8.65	38.58	34.95	152	223	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



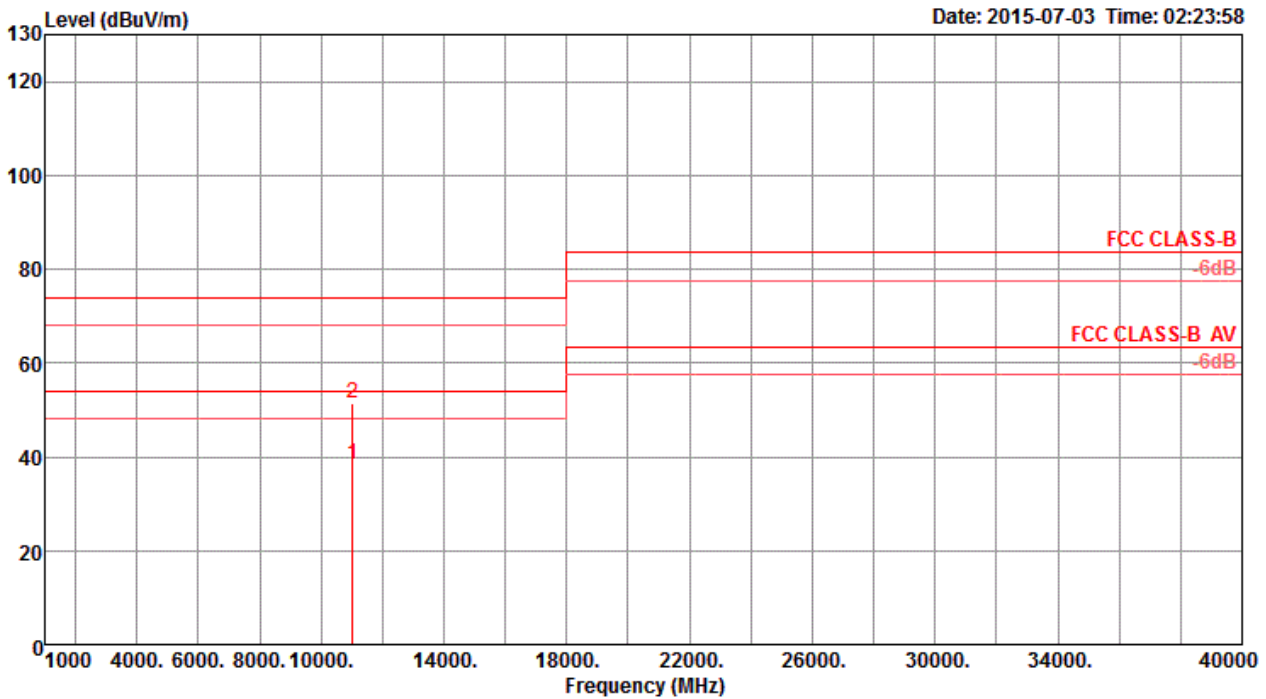
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11017.80	51.43	74.00	-22.57	38.76	8.94	38.52	34.79 Peak	150	210	HORIZONTAL
2	11018.32	38.72	54.00	-15.28	26.05	8.94	38.52	34.79 Average	150	210	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

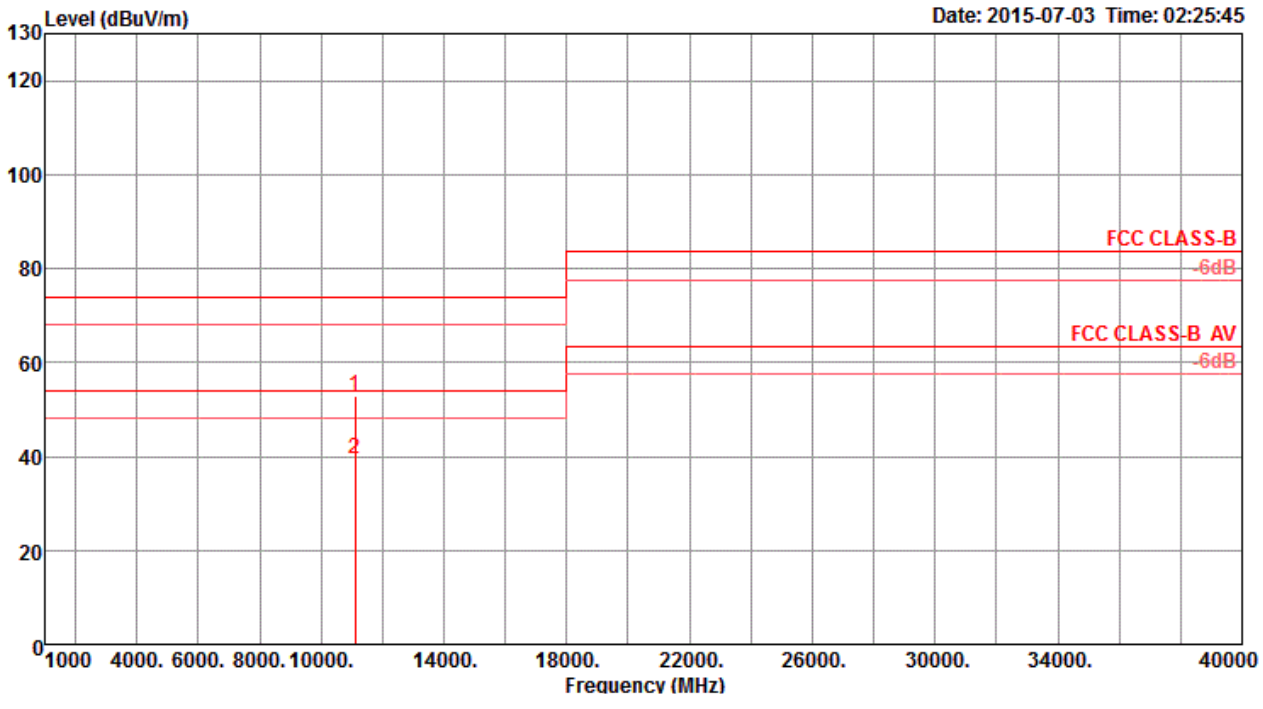
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11019.69	38.37	54.00	-15.63	25.70	8.94	38.52	34.79	150	235	VERTICAL
2	11019.89	51.27	74.00	-22.73	38.60	8.94	38.52	34.79	150	235	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

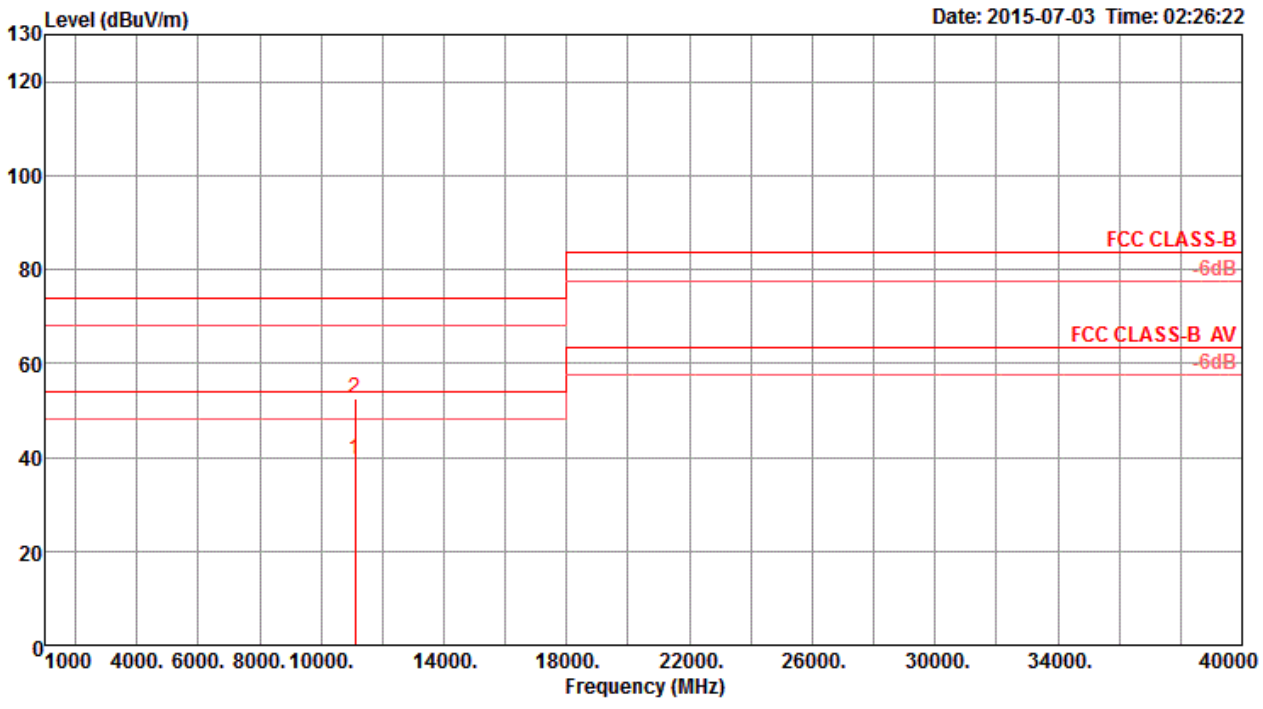
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11097.88	53.00	74.00	-21.00	40.18	8.99	38.62	34.79 Peak	150	203	HORIZONTAL
2	11100.27	39.55	54.00	-14.45	26.73	8.99	38.62	34.79 Average	150	203	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

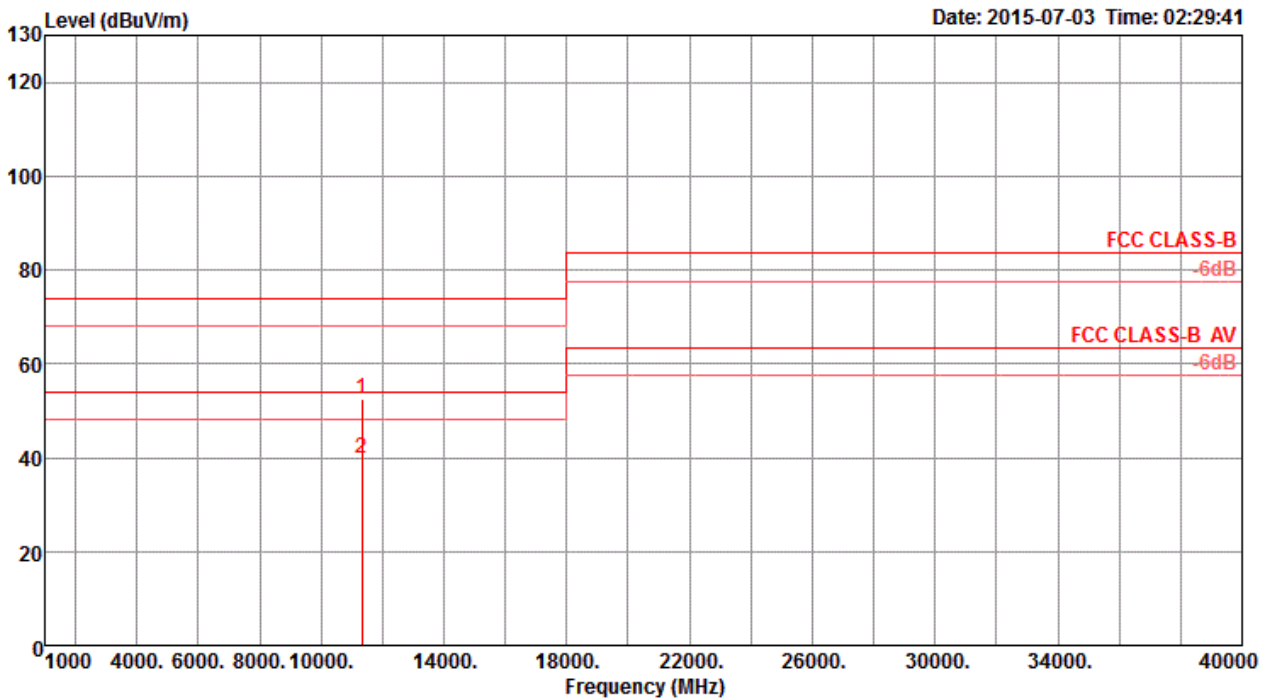
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11097.91	39.58	54.00	-14.42	26.76	8.99	38.62	34.79	150	197	VERTICAL
2	11100.74	52.58	74.00	-21.42	39.76	8.99	38.62	34.79	150	197	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

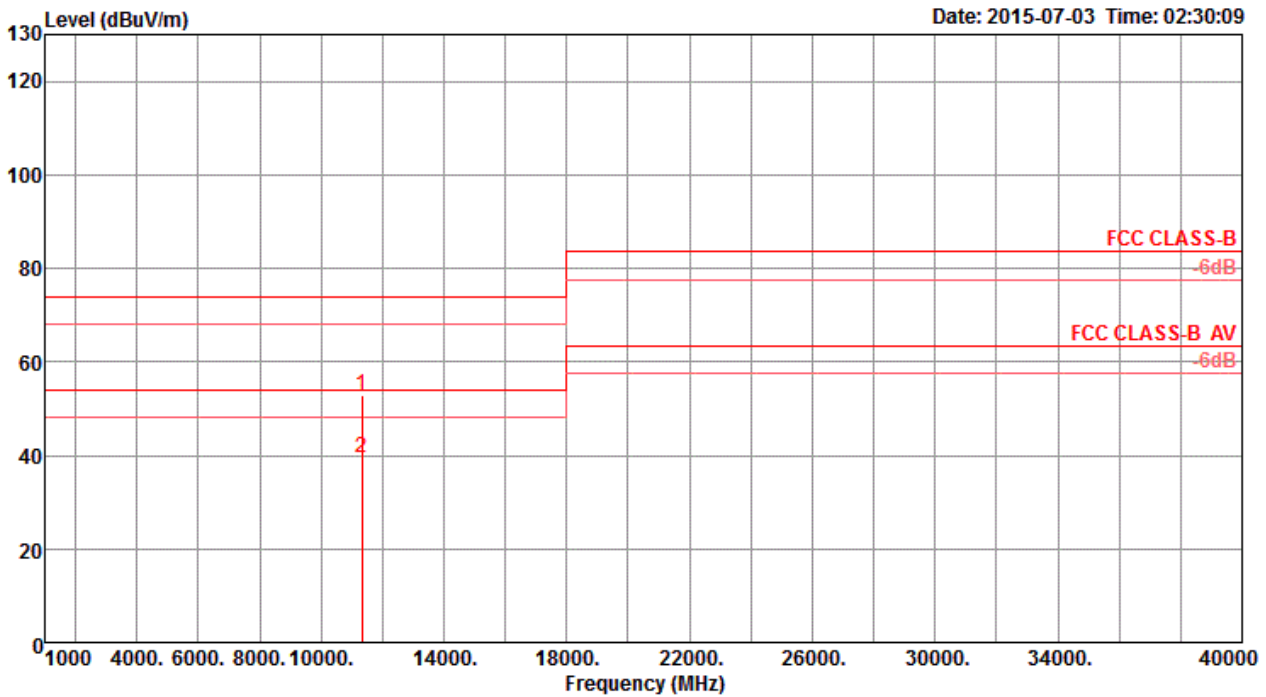
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11338.83	52.64	74.00	-21.36	39.40	9.14	38.90	34.80 Peak	150	183	HORIZONTAL
2	11341.17	39.81	54.00	-14.19	26.57	9.14	38.90	34.80 Average	150	183	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11338.79	52.73	74.00	-21.27	39.49	9.14	38.90	34.80 Peak	150	179	VERTICAL
2	11338.90	39.56	54.00	-14.44	26.32	9.14	38.90	34.80 Average	150	179	VERTICAL

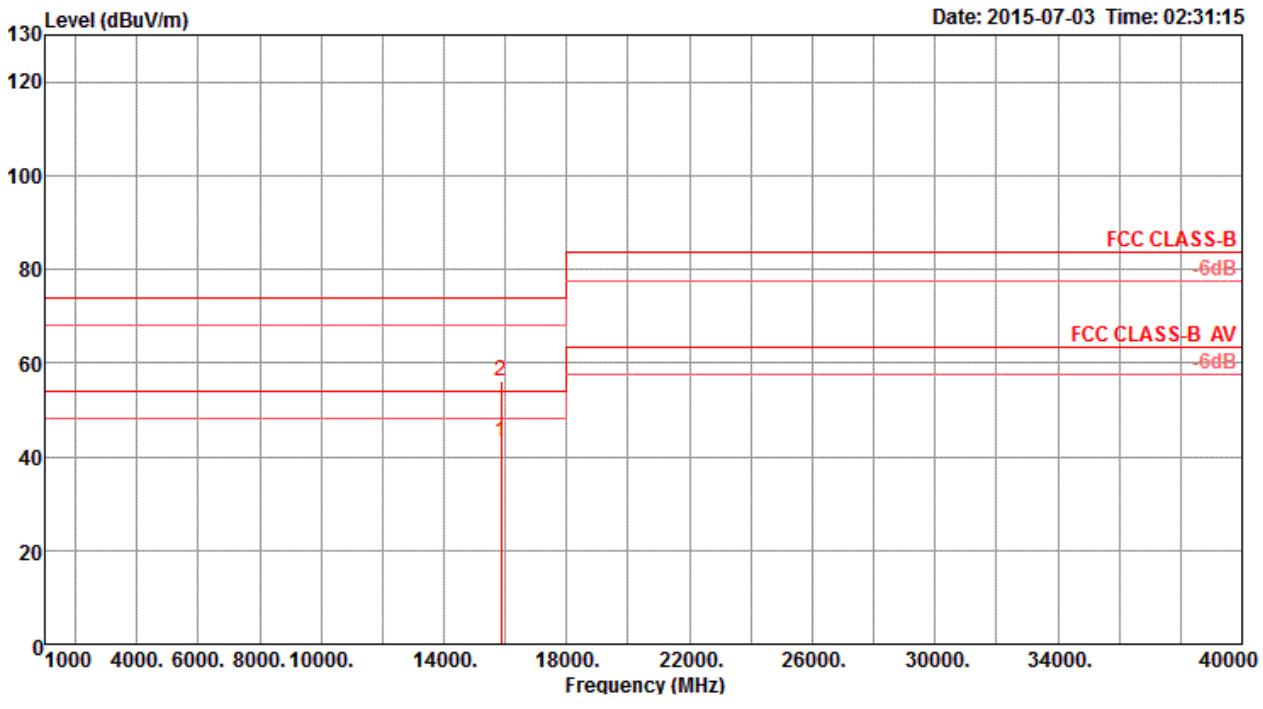
Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

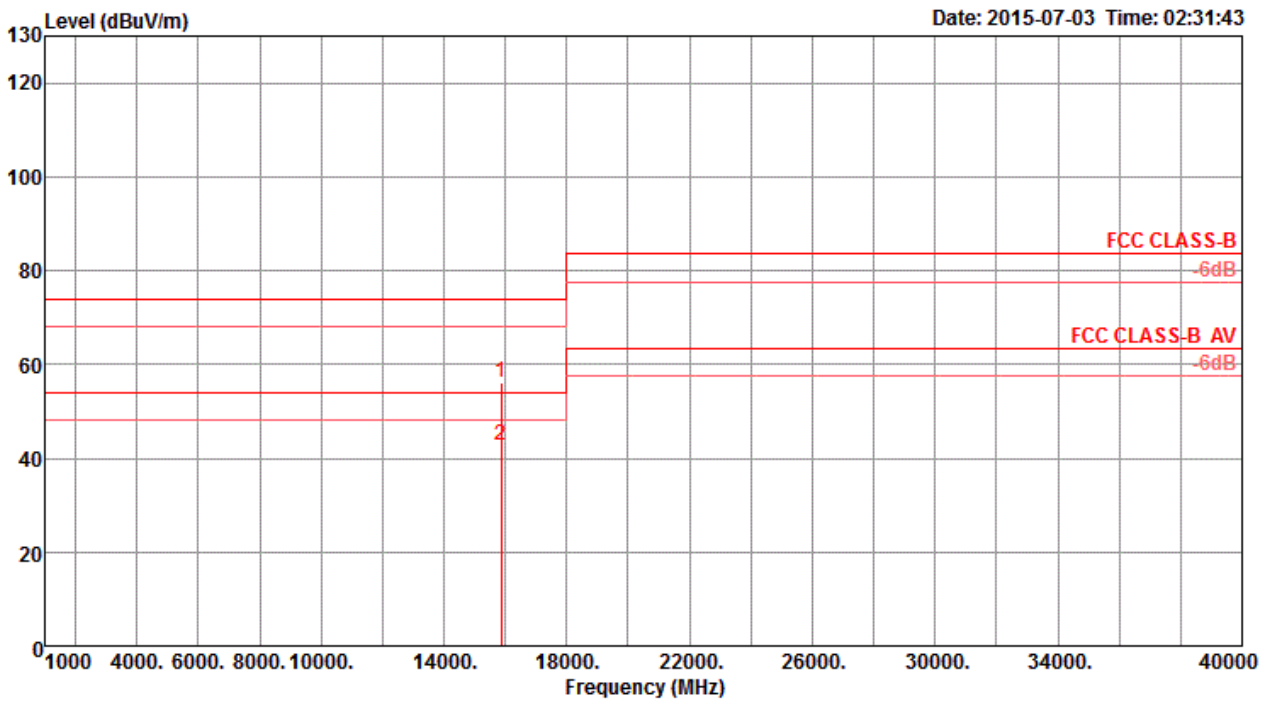
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15869.92	42.93	54.00	-11.07	29.70	10.81	37.77	35.35	Average	150	175 HORIZONTAL
2	15871.24	56.04	74.00	-17.96	42.81	10.81	37.77	35.35	Peak	150	175 HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V

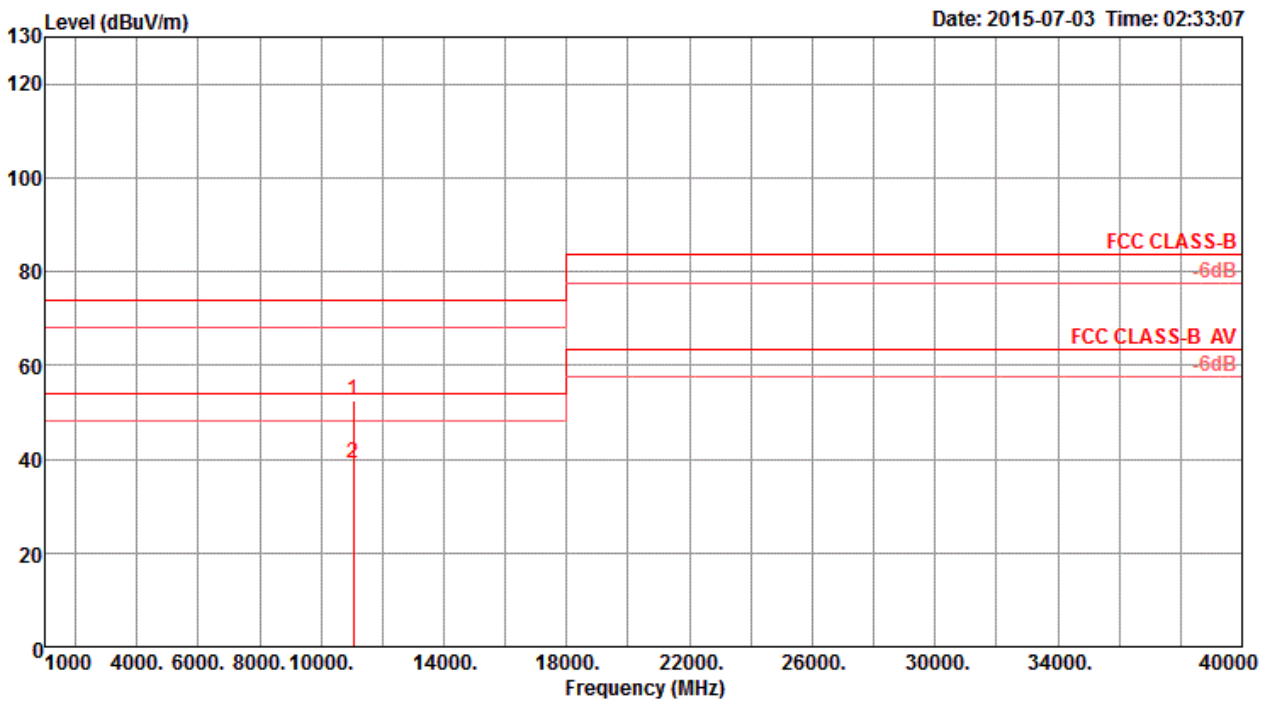


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15868.54	56.01	74.00	-17.99	42.78	10.81	37.77	35.35 Peak	150	170	VERTICAL
2	15869.20	42.89	54.00	-11.11	29.66	10.81	37.77	35.35 Average	150	170	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



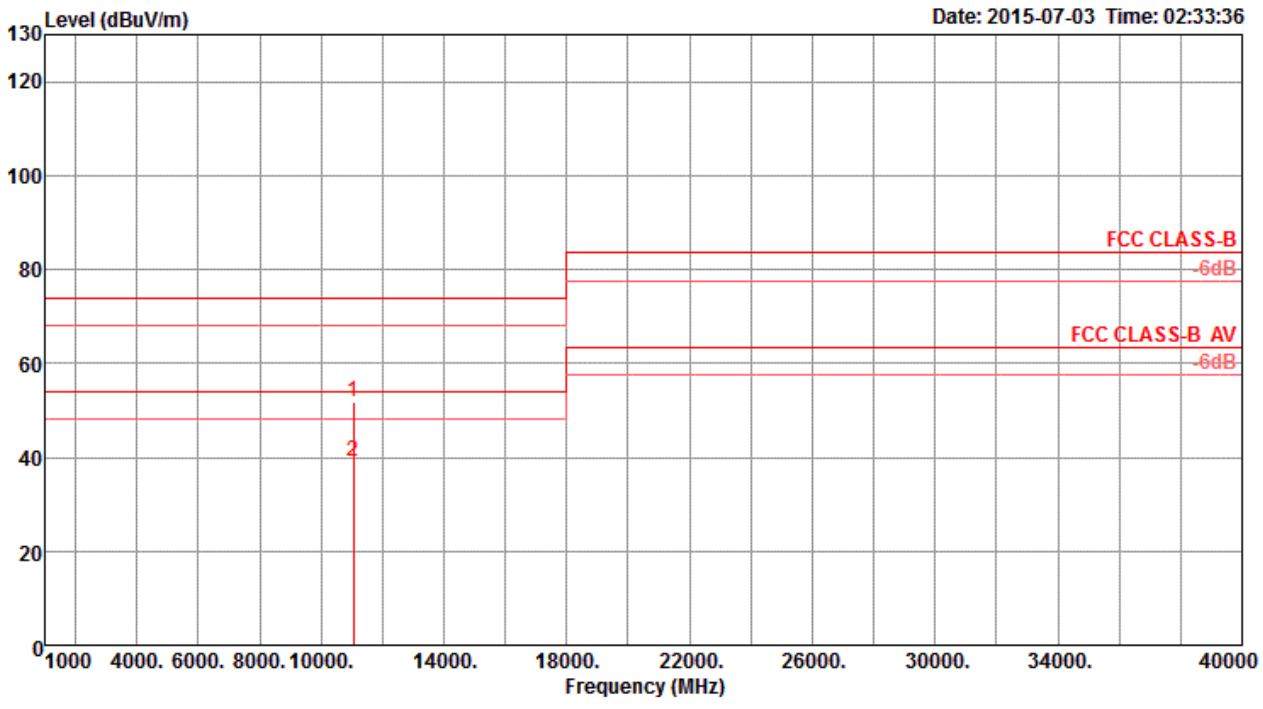
Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11059.45	52.35	74.00	-21.65	39.59	8.97	38.58	34.79 Peak	150	165	HORIZONTAL
2	11062.41	39.27	54.00	-14.73	26.51	8.97	38.58	34.79 Average	150	165	HORIZONTAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Unwanted emissions in the restricted bands (Above 1GHz)			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11059.84	51.80	74.00	-22.20	39.04	8.97	38.58	34.79 Peak	150	157	VERTICAL
2	11061.40	39.05	54.00	-14.95	26.29	8.97	38.58	34.79 Average	150	157	VERTICAL

Note 1: The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).

Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

**3.6 Band Edge Emissions Measurement**

**3.6.1 Limit**

For transmitters operating in the 5.25-5.35 / 5.470-5.725 GHz band: all emissions outside of the 5.25-5.35 / 5.470-5.725 GHz band shall not exceed a -27dBm peak limit or average 54dBuV/m and peak 74dBuV/m limits. In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

<b>Frequencies (MHz)</b>	<b>Field Strength (microvolt/meter)</b>	<b>Measurement Distance (meters)</b>
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

**3.6.2 Measuring Instruments and Setting**

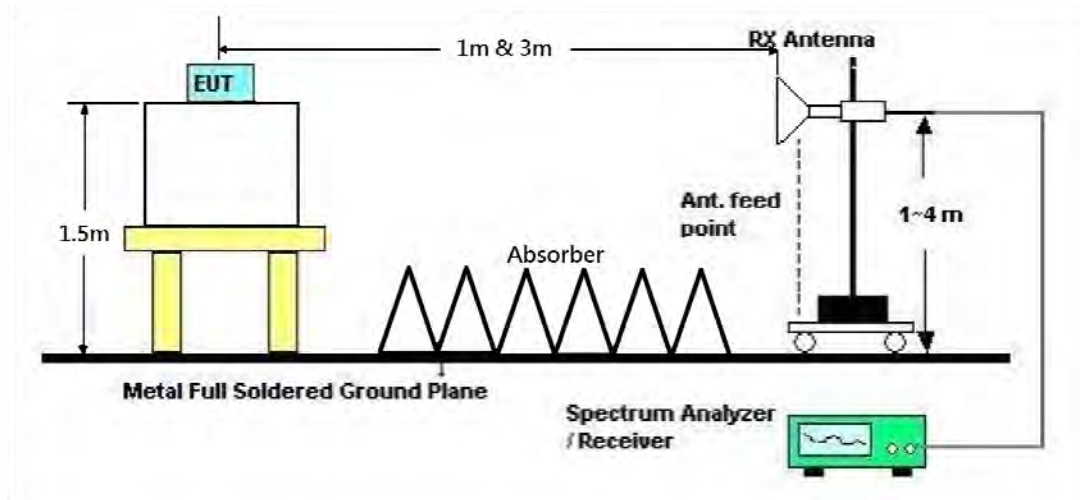
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

<b>Spectrum Analyzer</b>	<b>Setting</b>
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for Peak

**3.6.3 Test Procedures**

1. The test procedure is the same as section 3.5.4, only the frequency range investigated is limited to 100MHz around bandedges.
2. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC KDB789033 D02 General UNII Test Procedures New Rules v01, 06/06/2014 will be followed.

3.6.4 Test Setup Layout



3.6.5 Test Deviation

There are no deviations with the original standard.

3.6.6 EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

The EUT was programmed to be in beamforming transmitting mode.

**3.6.7 Test Result of Band Edge and Fundamental Emissions**

Following channel(s) was (were) selected for the final test as listed below.

For Non-Beamforming

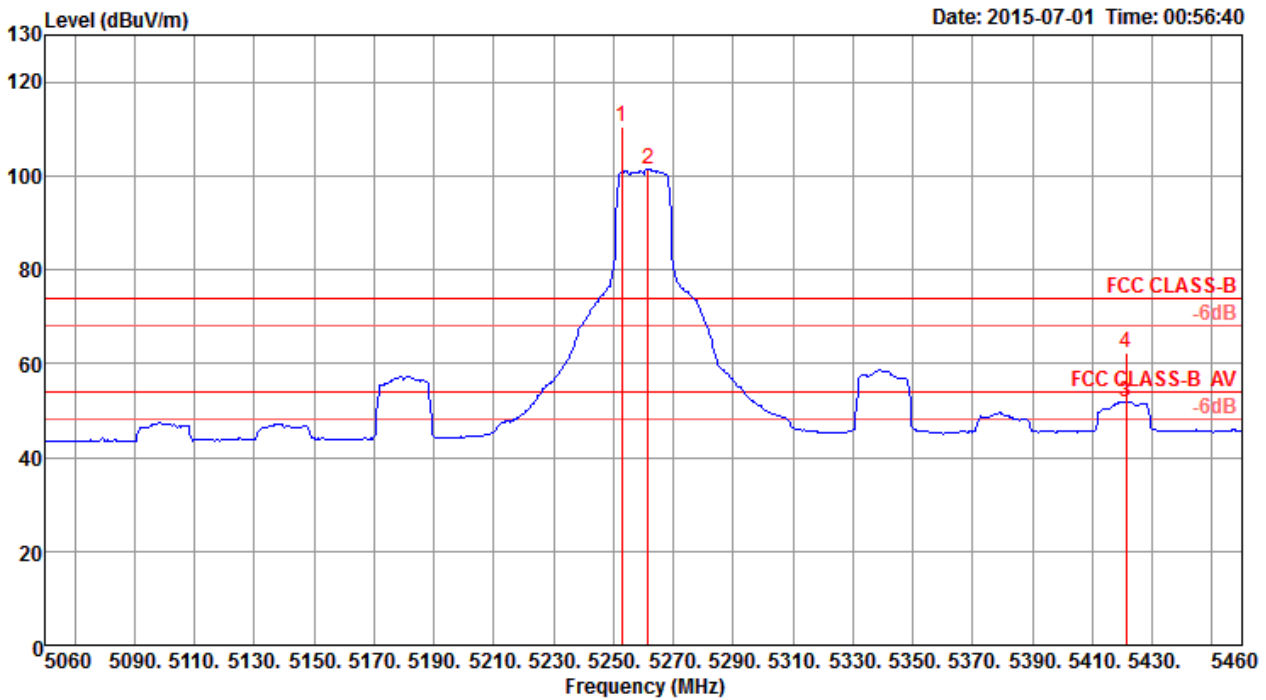
Mode	TX Antenna	Test Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	Ant. 1 (1S1T)	52, 60, 64 100, 116, 140	OFDM	BPSK	6
802.11a	Ant. 1+2+3 (1S3T, CDD2)	52, 60, 64 100, 116, 140	OFDM	BPSK	6
802.11ac 20MHz	Ant. 1 (1S1T)	52, 60, 64 100, 116, 140	OFDM	BPSK	MCS0 (6.5)
802.11ac 20MHz	Ant. 1+2+3 (1S3T, CDD2)	52, 60, 64 100, 116, 140	OFDM	BPSK	MCS0 (6.5)
802.11ac 40MHz	Ant. 1 (1S1T)	54, 62 102, 110, 134	OFDM	BPSK	MCS0 (13.5)
802.11ac 40MHz	Ant. 1+2+3 (1S3T, CDD2)	54, 62 102, 110, 134	OFDM	BPSK	MCS0 (13.5)
802.11ac 80MHz	Ant. 1 (1S1T)	58, 106	OFDM	BPSK	MCS0 (29.3)
802.11ac 80MHz	Ant. 1+2+3 (1S3T, CDD2)	58, 106	OFDM	BPSK	MCS0 (29.3)

For Beamforming

Mode	TX Antenna	Test Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11ac 20MHz	Ant. 1+2+3 (1S3T, TxBF2)	52, 60, 64 100, 116, 140	OFDM	BPSK	MCS0 (6.5)
802.11ac 40MHz	Ant. 1+2+3 (1S3T, TxBF2)	54, 62 102, 110, 134	OFDM	BPSK	MCS0 (13.5)
802.11ac 80MHz	Ant. 1+2+3 (1S3T, TxBF2)	58, 106	OFDM	BPSK	MCS0 (29.3)

For Non-Beamforming

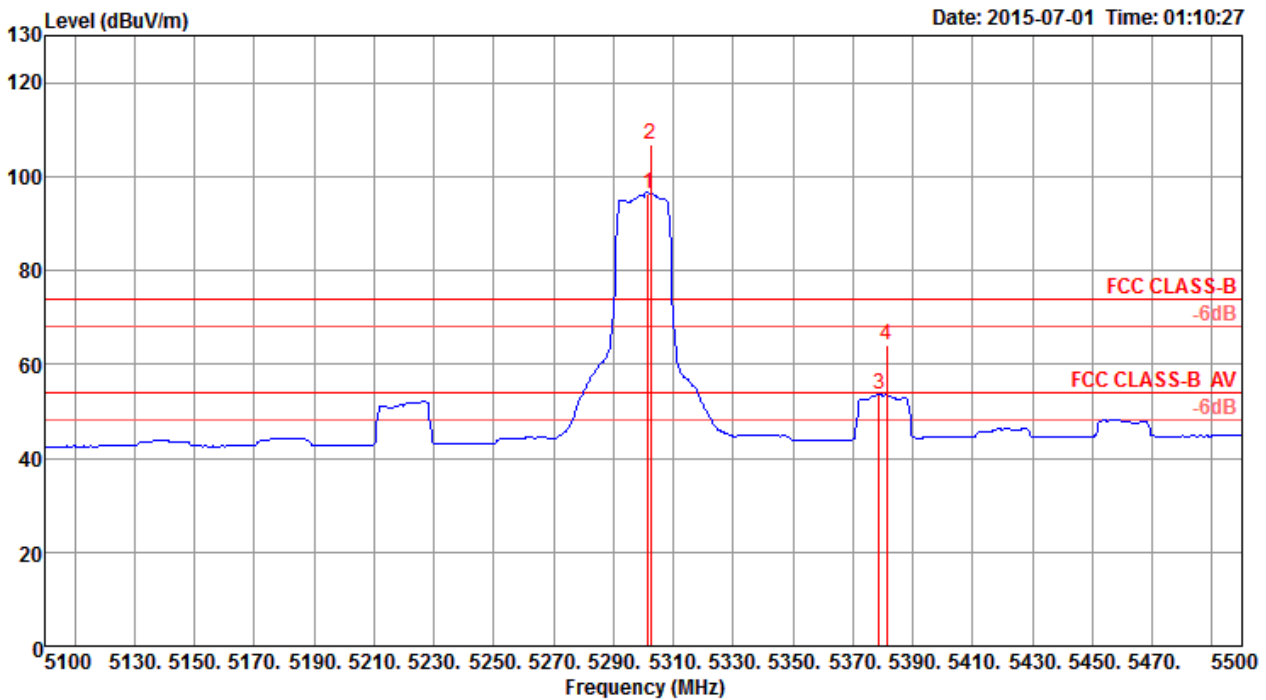
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH52 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5252.80	110.44			105.04	6.20	34.20	35.00 Peak	145	192	HORIZONTAL
2	5261.60	101.31			95.87	6.21	34.23	35.00 Average	145	192	HORIZONTAL
3	5421.20	51.91	54.00	-2.09	46.12	6.31	34.47	34.99 Average	145	192	HORIZONTAL
4	5421.20	62.41	74.00	-11.59	56.62	6.31	34.47	34.99 Peak	145	192	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5260 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

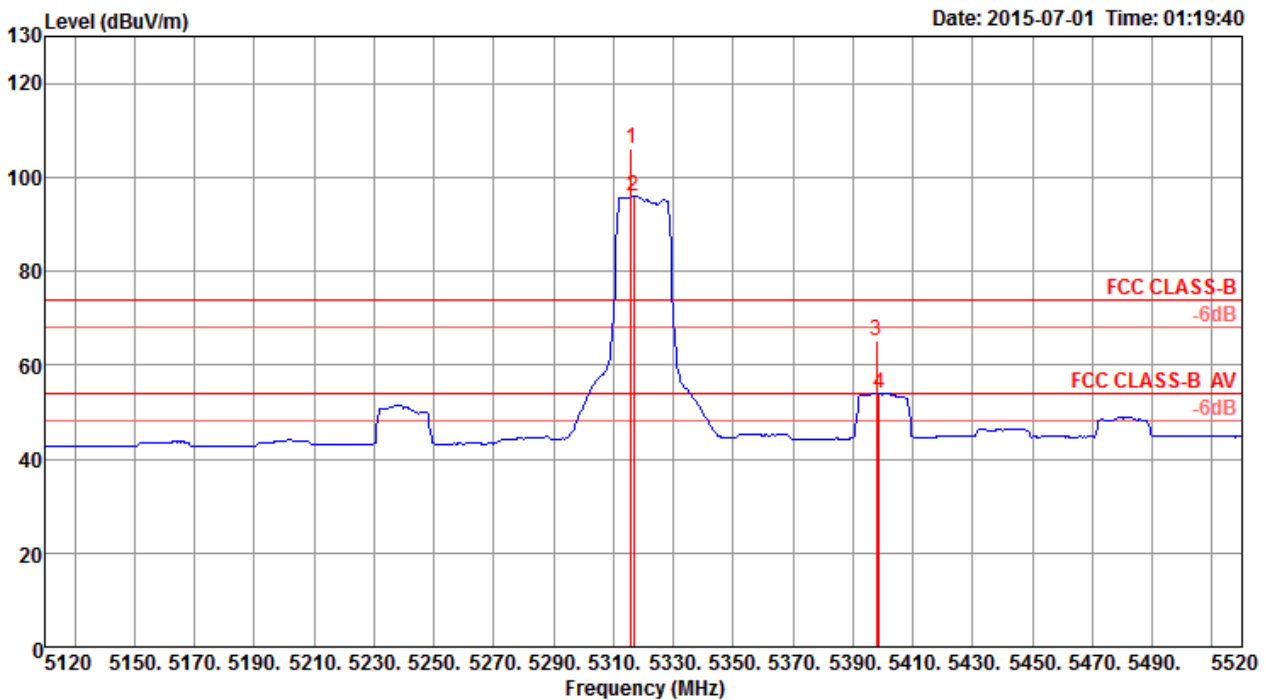
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH60 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5301.60	96.49			90.98	6.23	34.28	35.00 Average	157	187	HORIZONTAL
2	5302.40	106.72			101.21	6.23	34.28	35.00 Peak	157	187	HORIZONTAL
3	5378.80	53.64	54.00	-0.36	47.94	6.28	34.41	34.99 Average	157	187	HORIZONTAL
4	5381.20	63.95	74.00	-10.05	58.25	6.28	34.41	34.99 Peak	157	187	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5300 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH64 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H

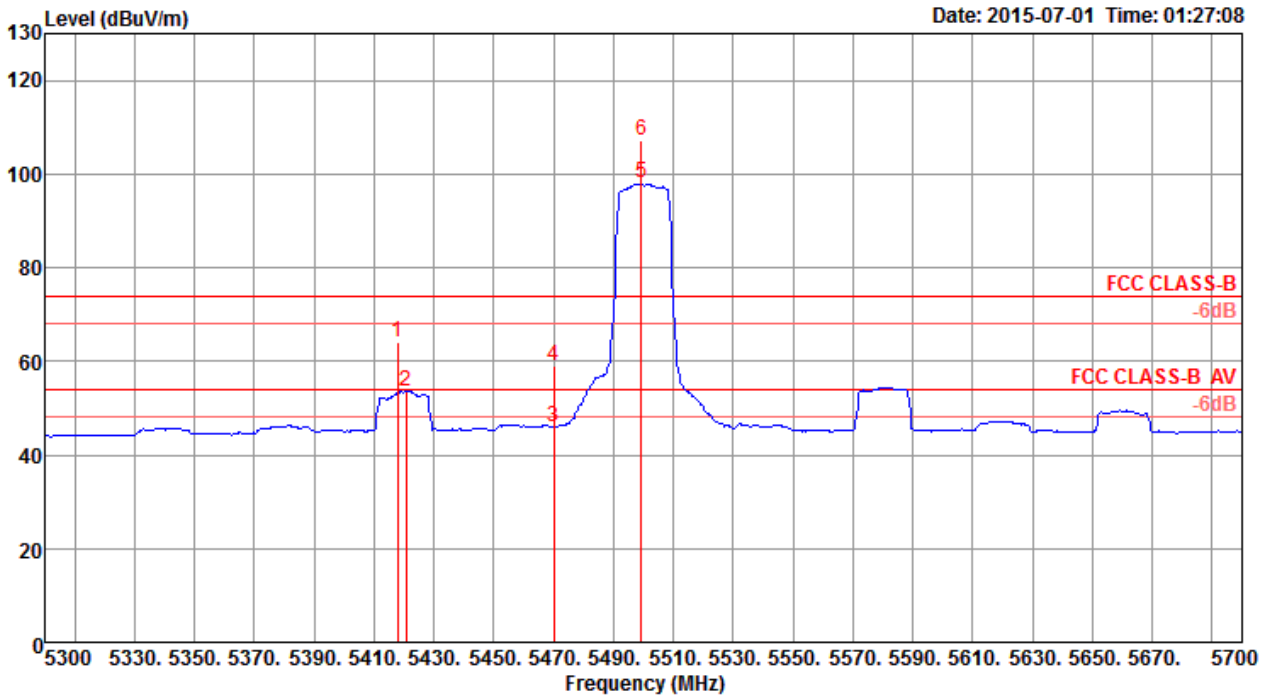


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5316.00	106.17			100.62	6.24	34.31	35.00 Peak	133	190	HORIZONTAL
2	5316.80	96.01			90.46	6.24	34.31	35.00 Average	133	190	HORIZONTAL
3	5398.00	65.19	74.00	-8.81	59.45	6.29	34.44	34.99 Peak	133	190	HORIZONTAL
4	5398.80	53.94	54.00	-0.06	48.20	6.29	34.44	34.99 Average	133	190	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5320 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



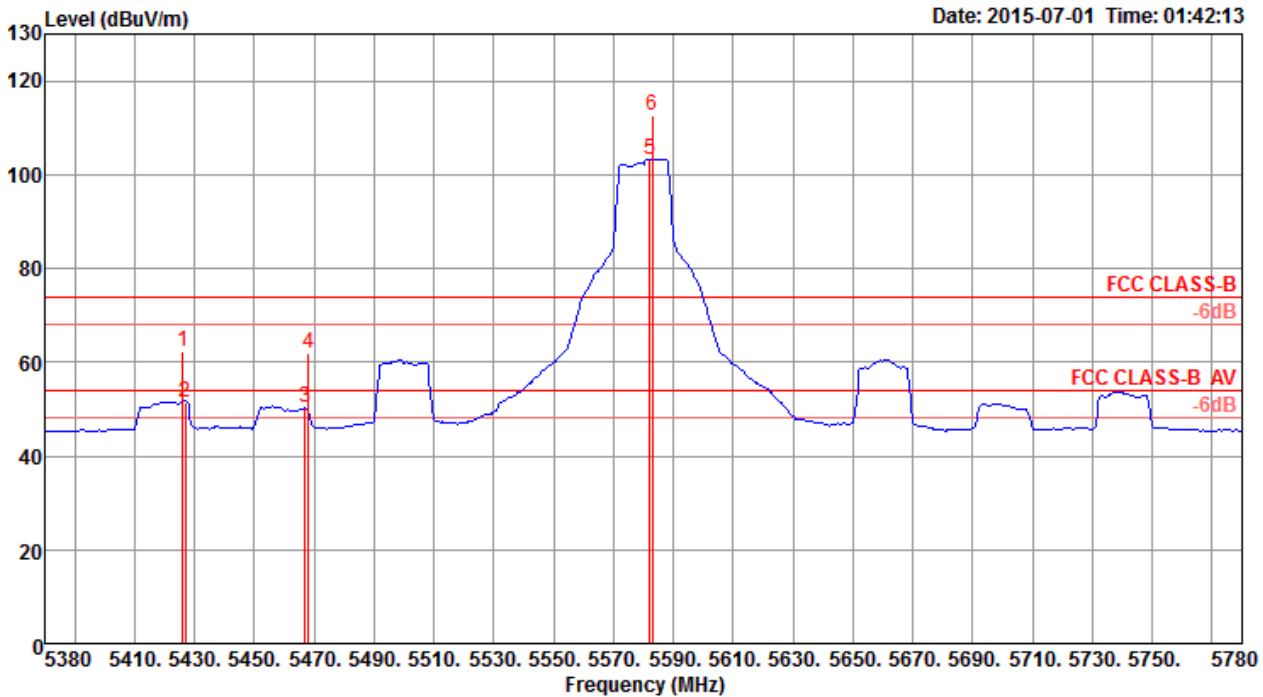
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH100 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5418.00	63.93	74.00	-10.07	58.14	6.31	34.47	34.99	Peak	182	170	HORIZONTAL
2	5420.80	53.67	54.00	-0.33	47.88	6.31	34.47	34.99	Average	182	170	HORIZONTAL
3	5470.00	46.01	54.00	-7.99	40.11	6.34	34.55	34.99	Average	182	170	HORIZONTAL
4	5470.00	58.94	74.00	-15.06	53.04	6.34	34.55	34.99	Peak	182	170	HORIZONTAL
5	5499.20	97.98			92.01	6.36	34.60	34.99	Average	182	170	HORIZONTAL
6	5499.20	107.30			101.33	6.36	34.60	34.99	Peak	182	170	HORIZONTAL

Note 1: Item 5, 6 are the fundamental frequency at 5500 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

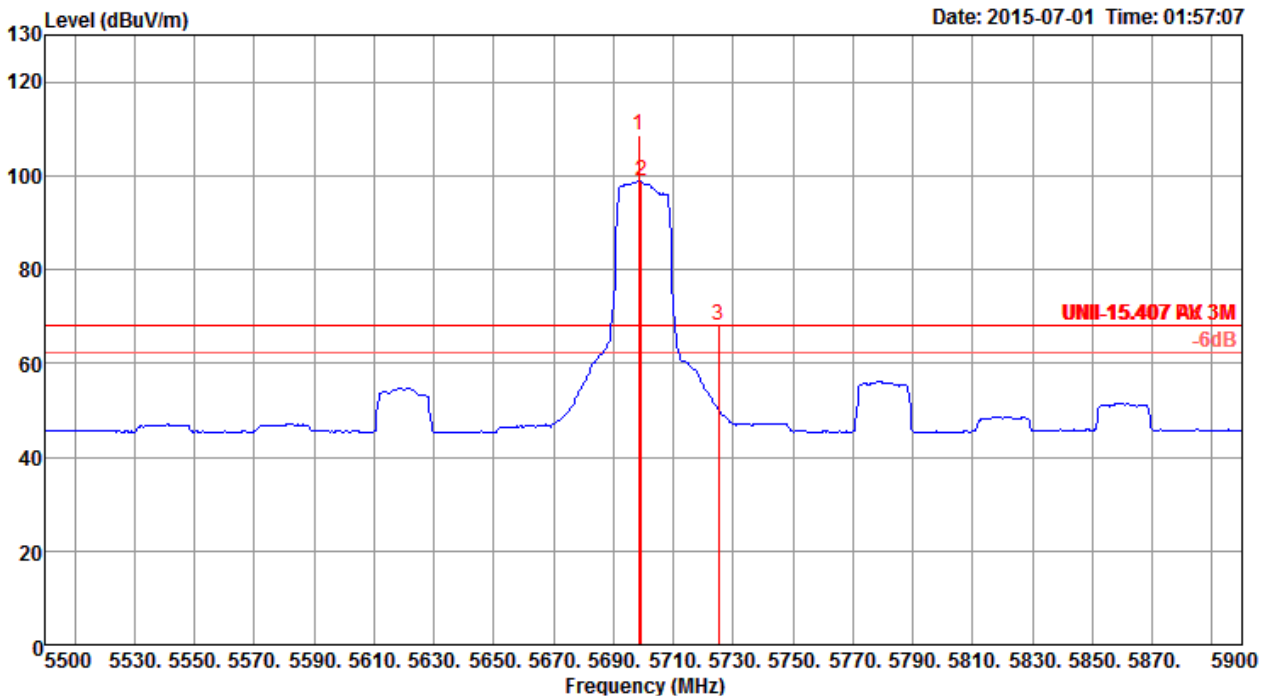
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH116 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5426.00	62.29	74.00	-11.71	56.50	6.31	34.47	34.99 Peak	195	174	HORIZONTAL
2	5427.00	51.58	54.00	-2.42	45.79	6.31	34.47	34.99 Average	195	174	HORIZONTAL
3	5467.00	50.19	54.00	-3.81	44.29	6.34	34.55	34.99 Average	195	174	HORIZONTAL
4	5468.00	61.92	74.00	-12.08	56.02	6.34	34.55	34.99 Peak	195	174	HORIZONTAL
5	5582.00	103.36			97.36	6.39	34.62	35.01 Average	195	174	HORIZONTAL
6	5583.00	112.49			106.49	6.39	34.62	35.01 Peak	195	174	HORIZONTAL

Note 1: Item 5, 6 are the fundamental frequency at 5580 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

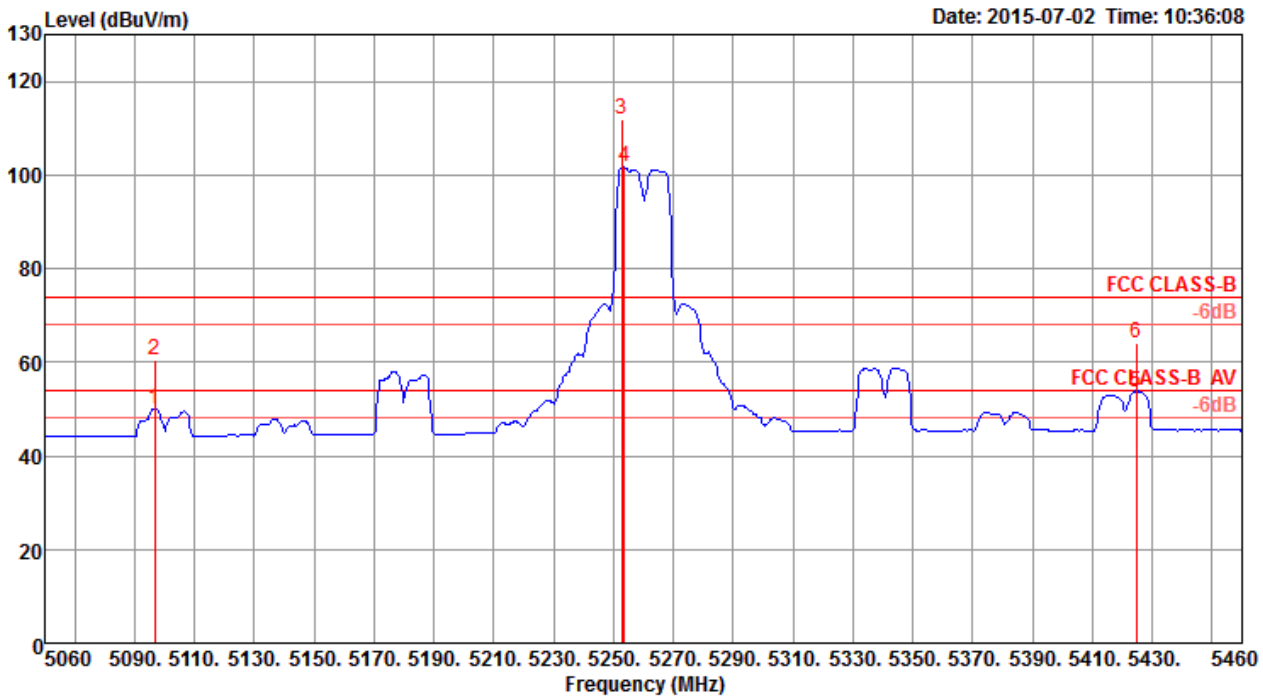
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH140 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5698.40	108.66			102.62	6.43	34.64	35.03 Peak	164	347	HORIZONTAL
2	5699.20	98.87			92.83	6.43	34.64	35.03 Average	164	347	HORIZONTAL
3	5725.00	68.07	68.20	-0.13	62.01	6.45	34.64	35.03 Peak	164	347	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5700 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

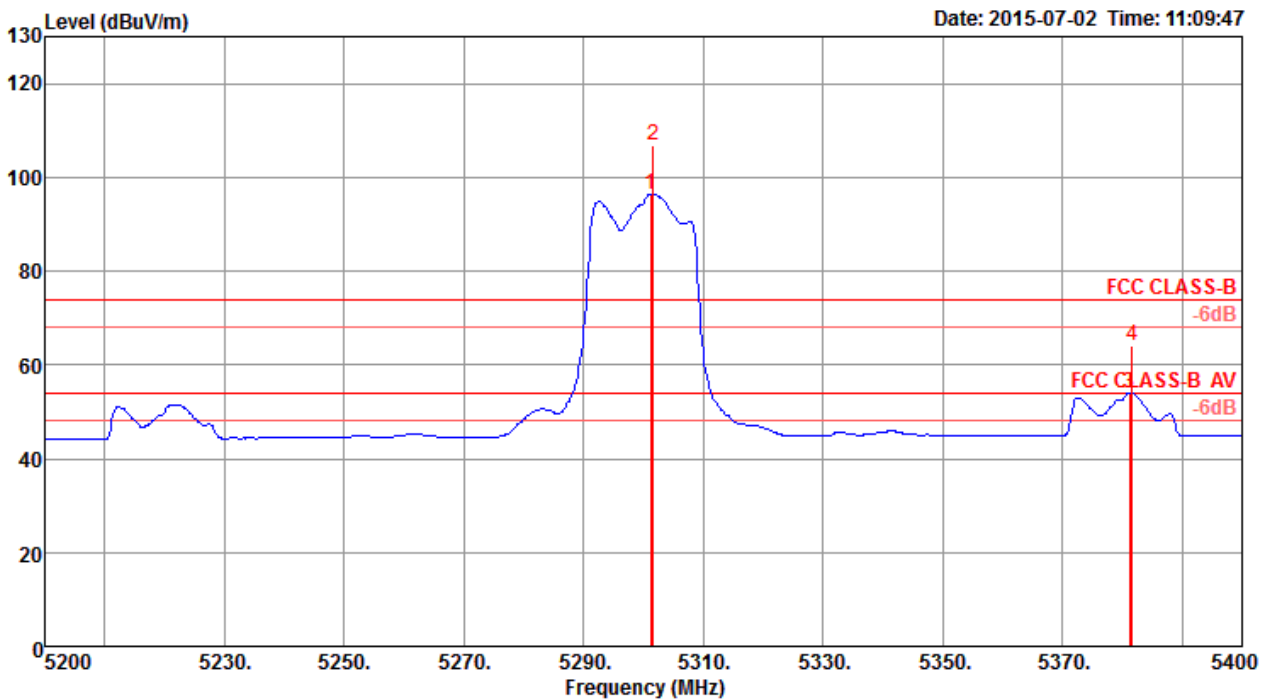
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH52 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5096.80	50.10	54.00	-3.90	45.05	6.10	33.96	35.01 Average	185	170	HORIZONTAL
2	5096.80	60.52	74.00	-13.48	55.47	6.10	33.96	35.01 Peak	185	170	HORIZONTAL
3	5252.80	111.96			106.56	6.20	34.20	35.00 Peak	185	170	HORIZONTAL
4	5253.60	101.59			96.19	6.20	34.20	35.00 Average	185	170	HORIZONTAL
5	5424.80	53.77	54.00	-0.23	47.98	6.31	34.47	34.99 Average	185	170	HORIZONTAL
6	5424.80	64.06	74.00	-9.94	58.27	6.31	34.47	34.99 Peak	185	170	HORIZONTAL

Note 1: Item 3, 4 are the fundamental frequency at 5260 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

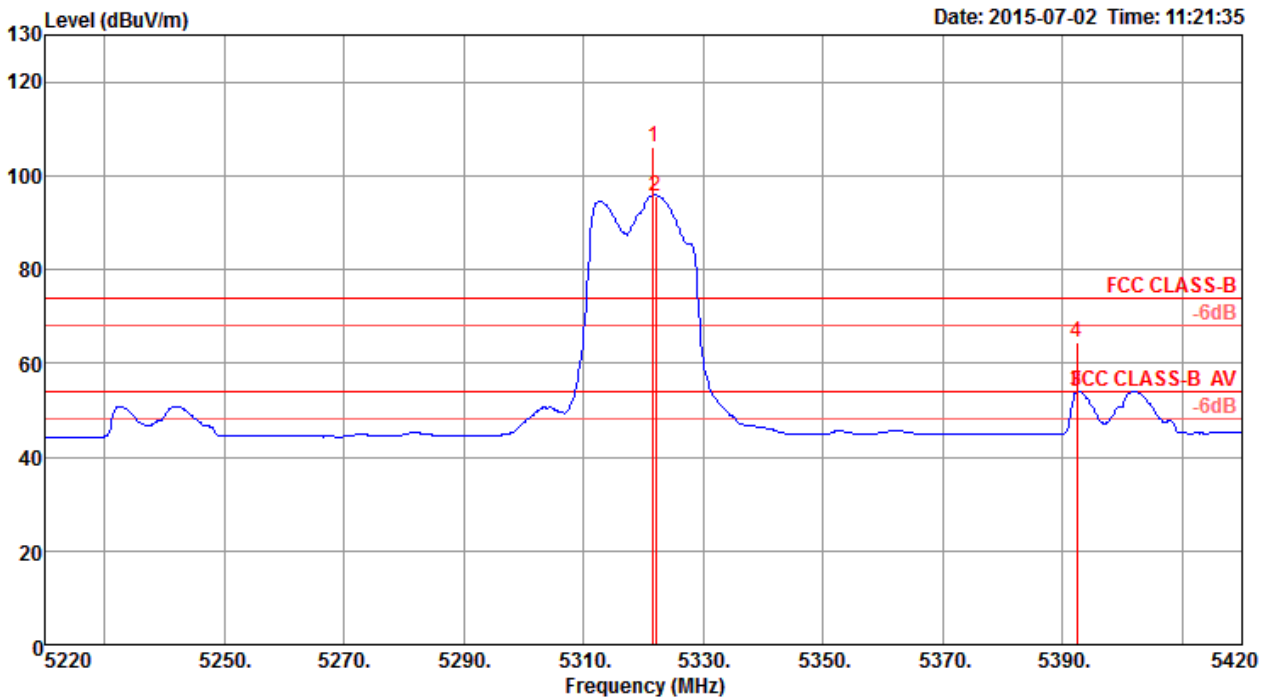
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH 60 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5301.20	96.44			90.93	6.23	34.28	35.00	Average	181	26	VERTICAL
2	5301.60	106.67			101.16	6.23	34.28	35.00	Peak	181	26	VERTICAL
3	5381.20	53.95	54.00	-0.05	48.25	6.28	34.41	34.99	Average	181	26	VERTICAL
4	5381.60	64.09	74.00	-9.91	58.39	6.28	34.41	34.99	Peak	181	26	VERTICAL

Note 1: Item 1, 2 are the fundamental frequency at 5300 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

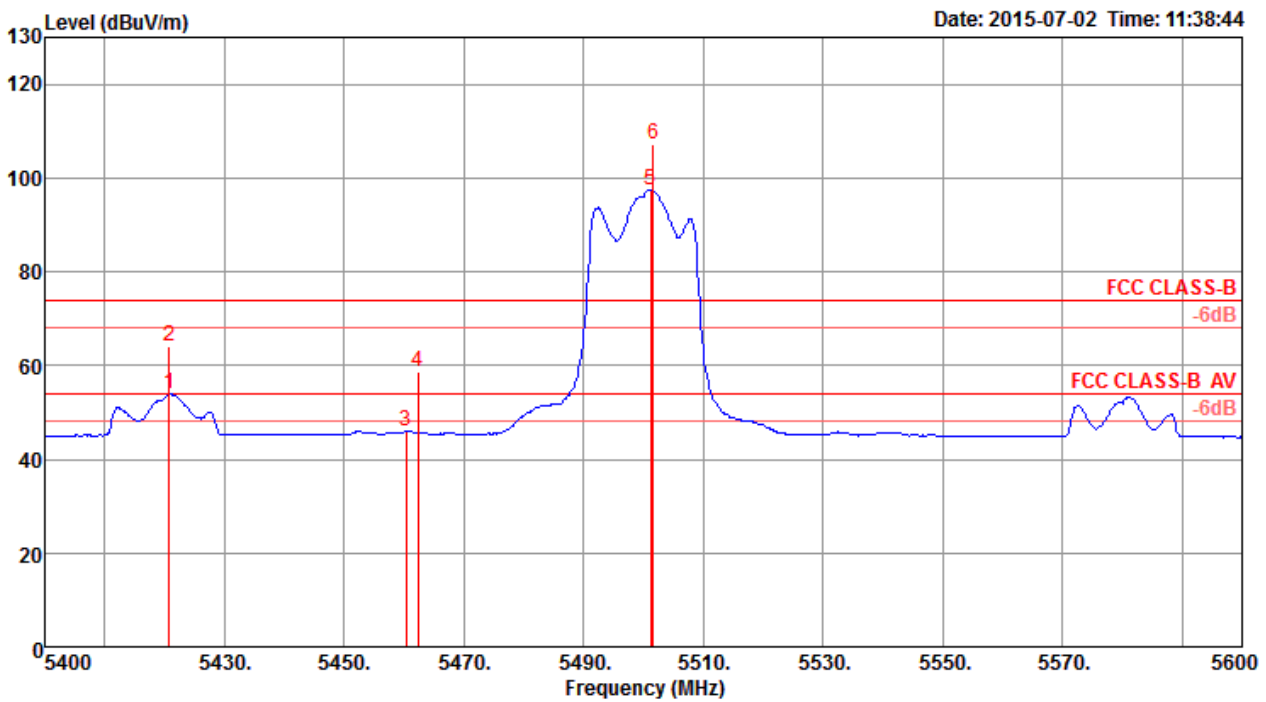
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH 64 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m		cm	deg	
1	5321.60	106.10			100.55	6.24	34.31	Peak	188	31	VERTICAL
2	5322.00	95.77			90.22	6.24	34.31	Average	188	31	VERTICAL
3	5392.40	53.99	54.00	-0.01	48.29	6.28	34.41	Average	188	31	VERTICAL
4	5392.40	64.38	74.00	-9.62	58.68	6.28	34.41	Peak	188	31	VERTICAL

Note 1: Item 1, 2 are the fundamental frequency at 5320 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

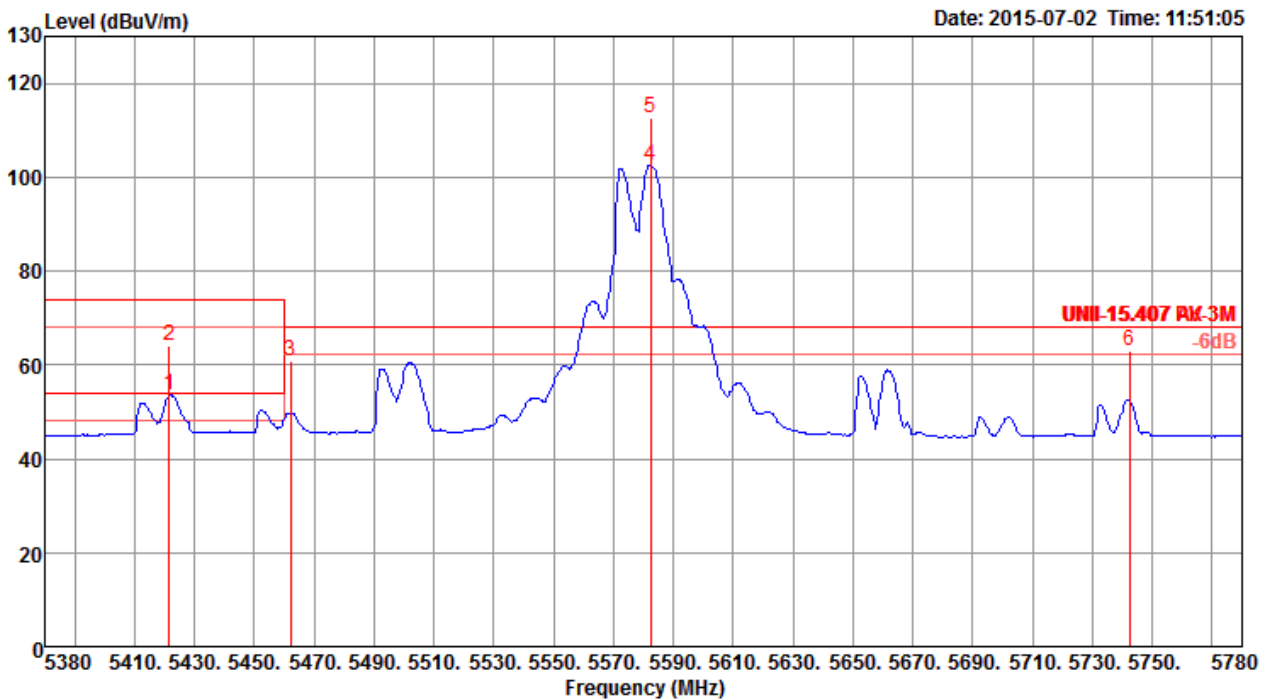
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH 100 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5420.80	53.84	54.00	-0.16	48.05	6.31	34.47	34.99 Average	176	28	VERTICAL
2	5420.80	64.07	74.00	-9.93	58.28	6.31	34.47	34.99 Peak	176	28	VERTICAL
3	5460.40	45.89	54.00	-8.11	40.03	6.33	34.52	34.99 Average	176	28	VERTICAL
4	5462.40	58.80	74.00	-15.20	52.94	6.33	34.52	34.99 Peak	176	28	VERTICAL
5	5501.20	97.45			91.49	6.36	34.60	35.00 Average	176	28	VERTICAL
6	5501.60	107.12			101.16	6.36	34.60	35.00 Peak	176	28	VERTICAL

Note 1: Item 5, 6 are the fundamental frequency at 5500 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH 116 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V

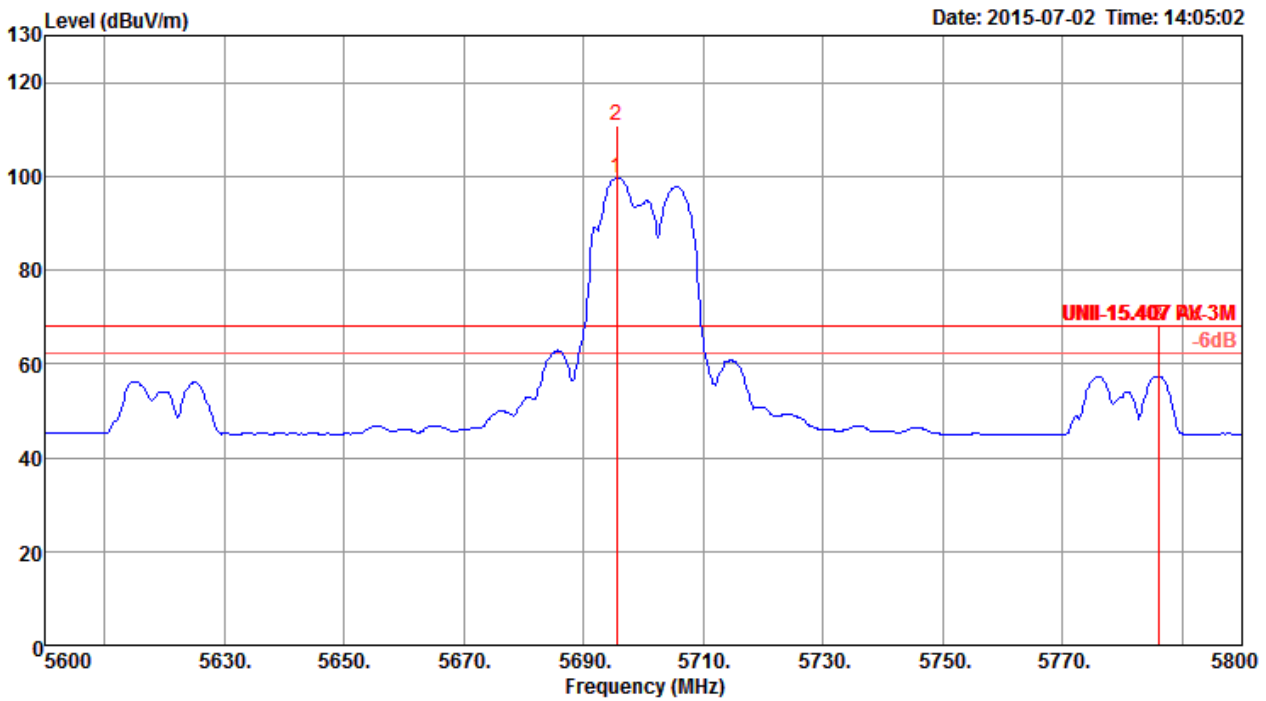


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5421.60	53.48	54.00	-0.52	47.69	6.31	34.47	34.99	200	42	VERTICAL
2	5421.60	63.92	74.00	-10.08	58.13	6.31	34.47	34.99	200	42	VERTICAL
3	5462.00	60.82	68.20	-7.38	54.96	6.33	34.52	34.99	200	42	VERTICAL
4	5582.40	102.49			96.49	6.39	34.62	35.01	200	42	VERTICAL
5	5582.40	112.63			106.63	6.39	34.62	35.01	200	42	VERTICAL
6	5742.40	63.12	68.20	-5.08	57.06	6.45	34.65	35.04	200	42	VERTICAL

Note 1: Item 4, 5 are the fundamental frequency at 5580 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



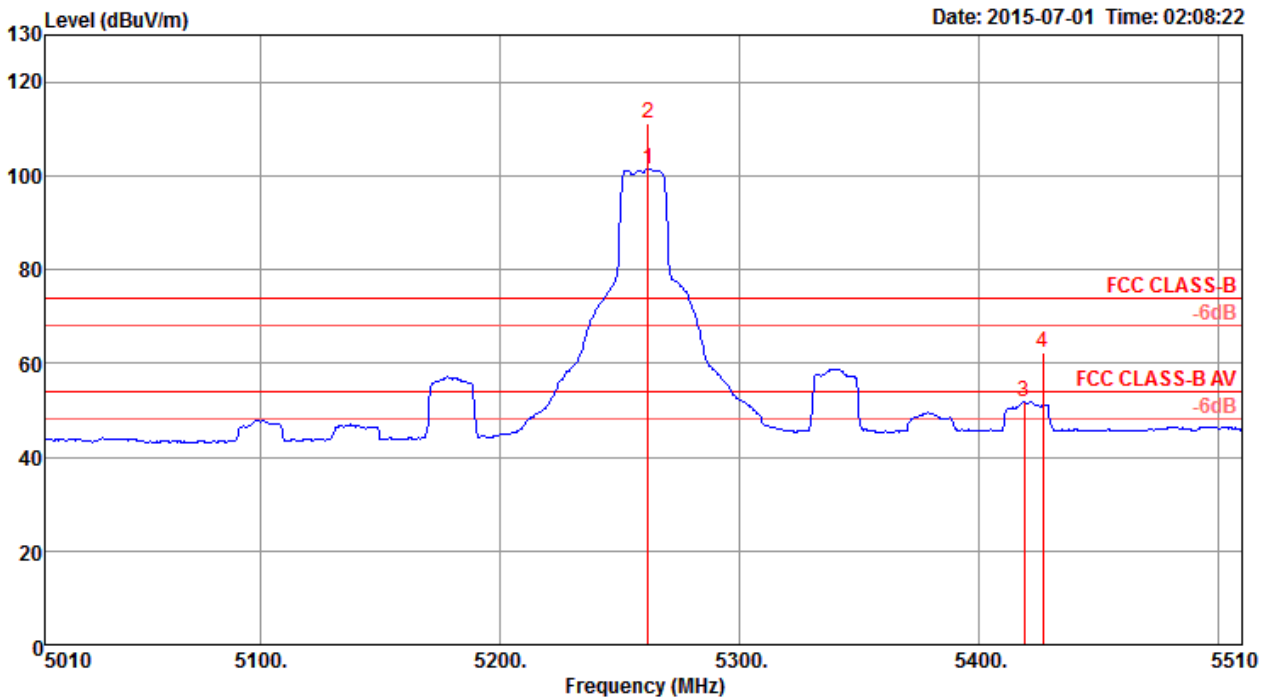
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11a / 6Mbps / CH 140 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5695.60	99.62			93.58	6.43	34.64	35.03	Average	216	164	HORIZONTAL
2	5695.60	110.80			104.76	6.43	34.64	35.03	Peak	216	164	HORIZONTAL
3	5786.00	68.10	68.20	-0.10	62.02	6.47	34.66	35.05	Peak	216	164	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5700 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

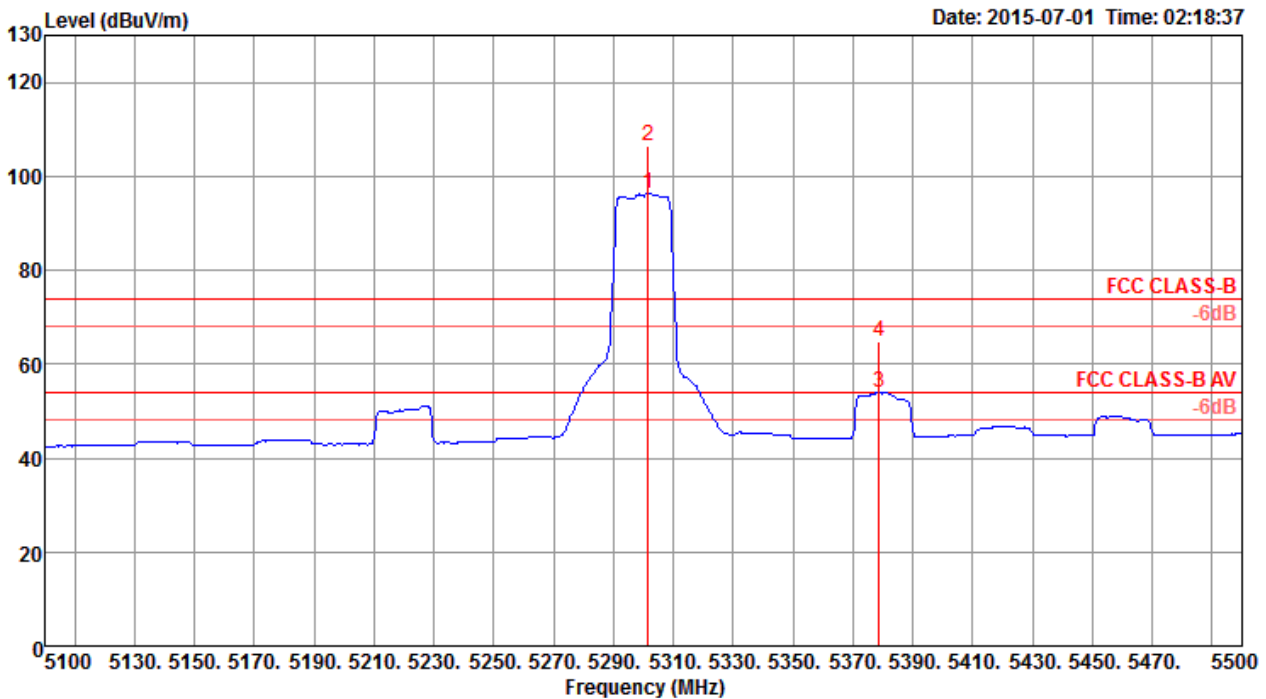
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5262.00	101.46			96.02	6.21	34.23	35.00	143	188	HORIZONTAL
2	5262.00	111.28			105.84	6.21	34.23	35.00	143	188	HORIZONTAL
3	5419.00	51.72	54.00	-2.28	45.93	6.31	34.47	34.99	143	188	HORIZONTAL
4	5427.00	62.36	74.00	-11.64	56.57	6.31	34.47	34.99	143	188	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5260 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

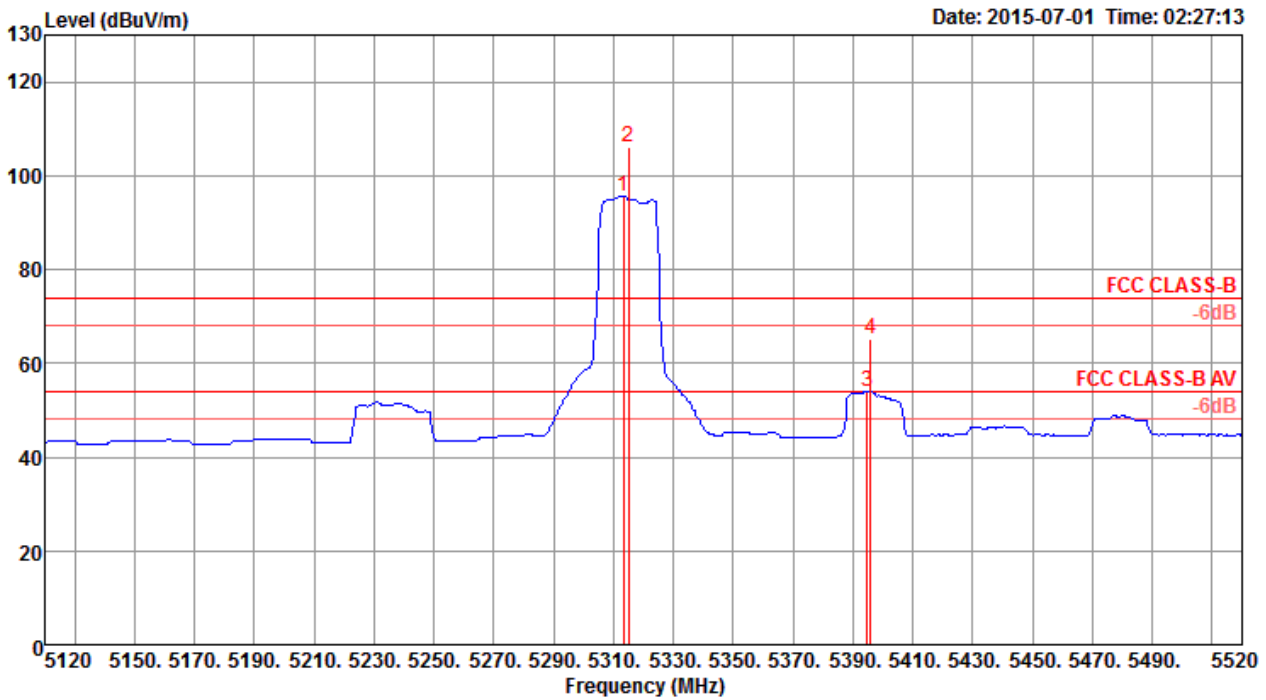
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5301.60	96.42			90.91	6.23	34.28	35.00 Average	129	192	HORIZONTAL
2	5301.60	106.55			101.04	6.23	34.28	35.00 Peak	129	192	HORIZONTAL
3	5378.80	53.82	54.00	-0.18	48.12	6.28	34.41	34.99 Average	129	192	HORIZONTAL
4	5378.80	64.77	74.00	-9.23	59.07	6.28	34.41	34.99 Peak	129	192	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5300 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

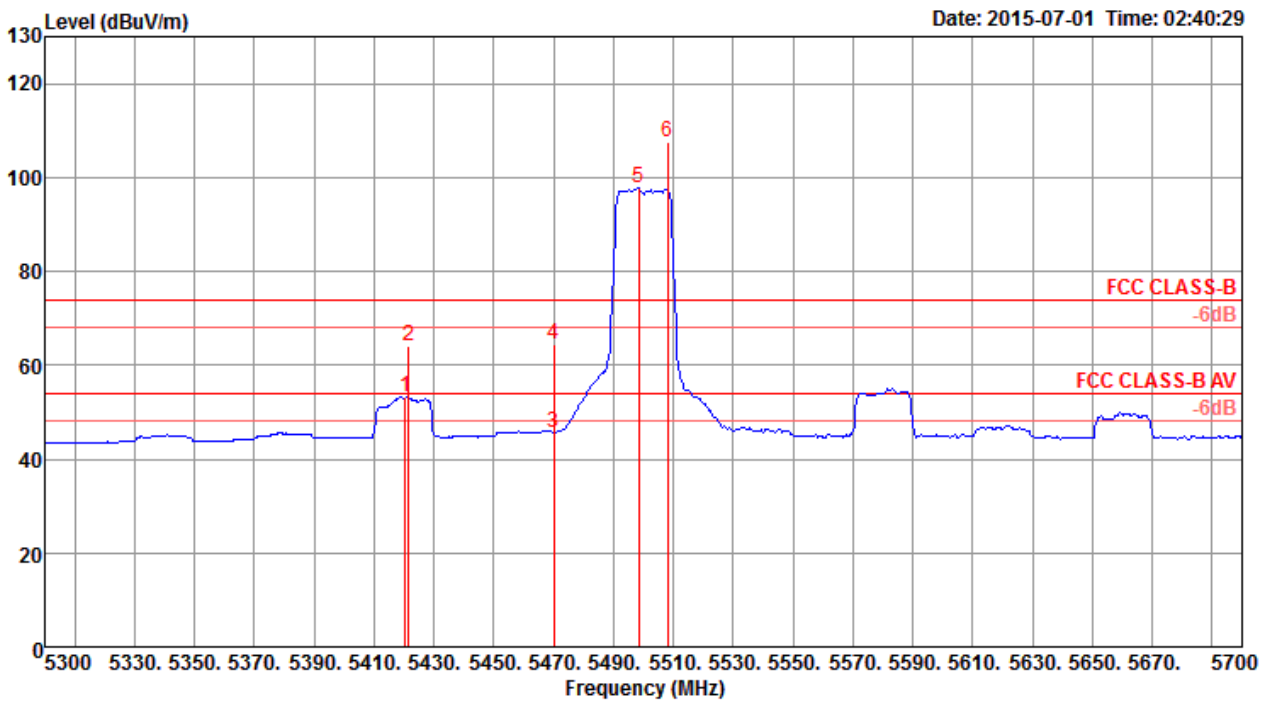
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5313.36	95.62			90.07	6.24	34.31	35.00 Average	130	188	HORIZONTAL
2	5315.00	106.20			100.65	6.24	34.31	35.00 Peak	130	188	HORIZONTAL
3	5394.80	53.84	54.00	-0.16	48.10	6.29	34.44	34.99 Average	130	188	HORIZONTAL
4	5395.92	65.35	74.00	-8.65	59.61	6.29	34.44	34.99 Peak	130	188	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5320 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

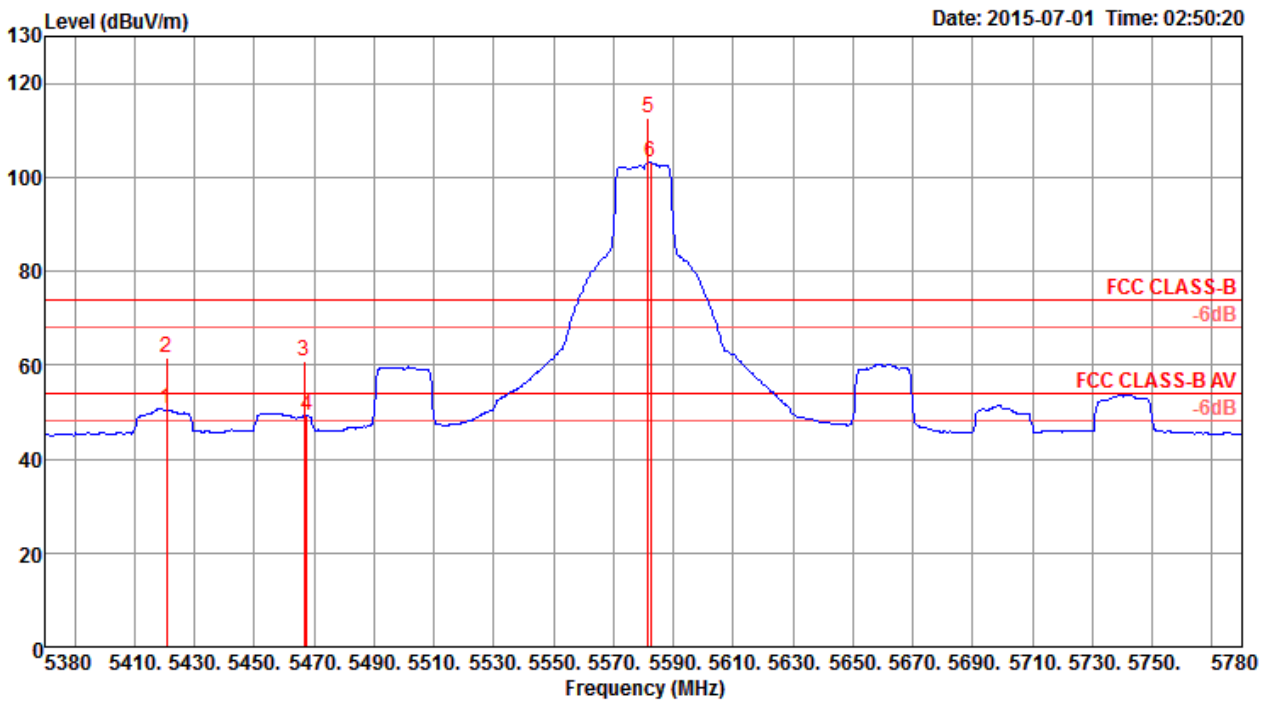
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5420.40	53.11	54.00	-0.89	47.32	6.31	34.47	34.99 Average	176	175	HORIZONTAL
2	5421.60	64.27	74.00	-9.73	58.48	6.31	34.47	34.99 Peak	176	175	HORIZONTAL
3	5470.00	45.72	54.00	-8.28	39.82	6.34	34.55	34.99 Average	176	175	HORIZONTAL
4	5470.00	64.62	74.00	-9.38	58.72	6.34	34.55	34.99 Peak	176	175	HORIZONTAL
5	5498.40	97.69			91.72	6.36	34.60	34.99 Average	176	175	HORIZONTAL
6	5508.00	107.59			101.63	6.36	34.60	35.00 Peak	176	175	HORIZONTAL

Note 1: Item 5, 6 are the fundamental frequency at 5500 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

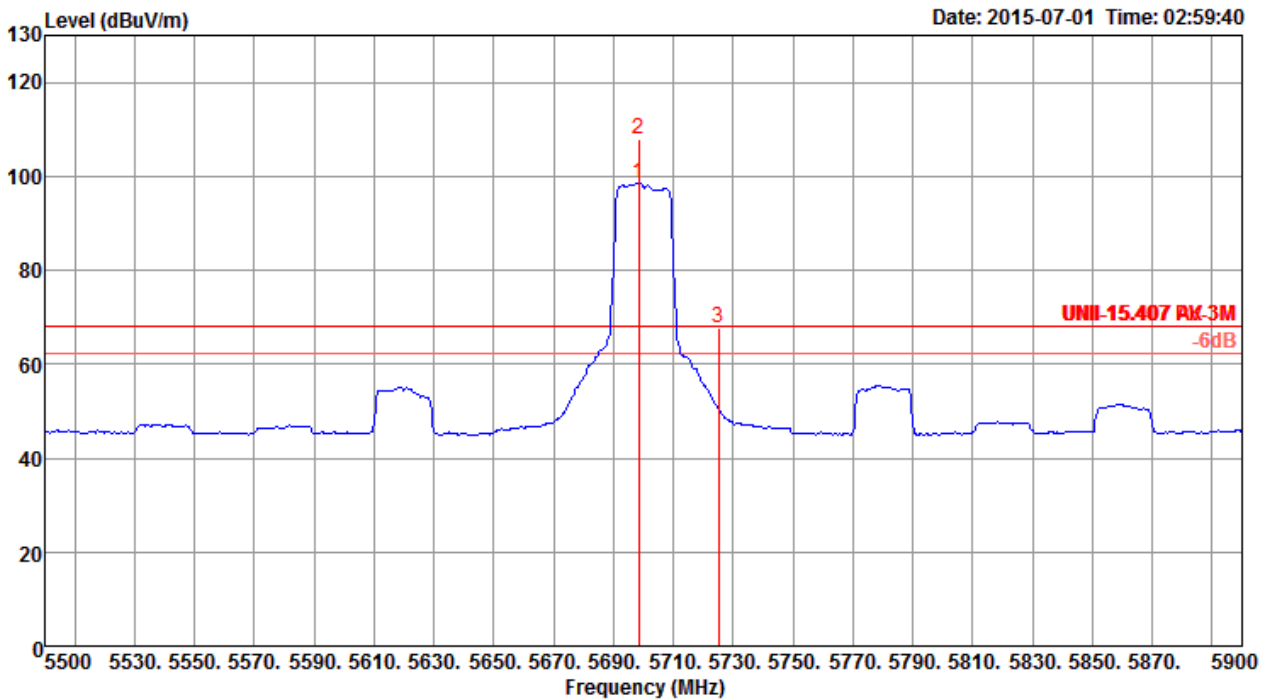
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5420.80	50.57	54.00	-3.43	44.78	6.31	34.47	34.99 Average	179	357	HORIZONTAL
2	5420.80	61.39	74.00	-12.61	55.60	6.31	34.47	34.99 Peak	179	357	HORIZONTAL
3	5466.80	60.70	74.00	-13.30	54.80	6.34	34.55	34.99 Peak	179	357	HORIZONTAL
4	5467.60	49.12	54.00	-4.88	43.22	6.34	34.55	34.99 Average	179	357	HORIZONTAL
5	5581.60	112.56			106.56	6.39	34.62	35.01 Peak	179	357	HORIZONTAL
6	5582.40	103.09			97.09	6.39	34.62	35.01 Average	179	357	HORIZONTAL

Note 1: Item 5, 6 are the fundamental frequency at 5580 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

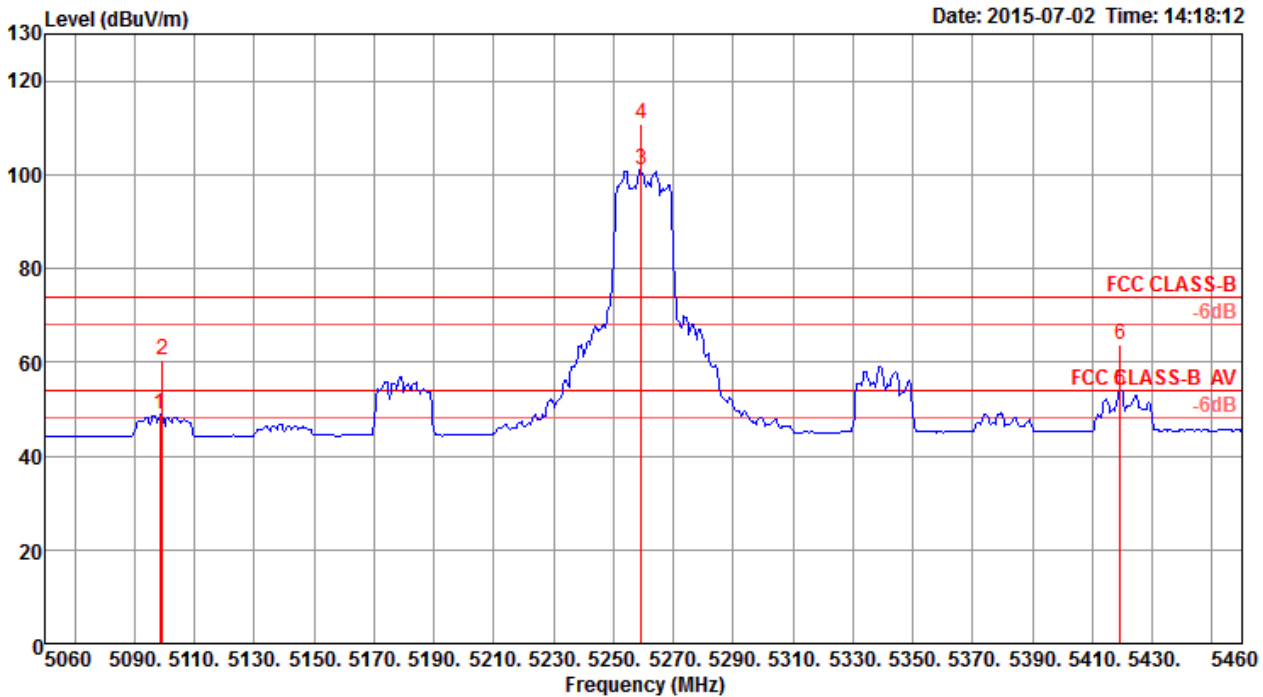
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5698.40	98.50			92.46	6.43	34.64	35.03	161	2	HORIZONTAL
2	5698.40	108.03			101.99	6.43	34.64	35.03	161	2	HORIZONTAL
3	5725.00	67.60	68.20	-0.60	61.54	6.45	34.64	35.03	161	2	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5700 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H

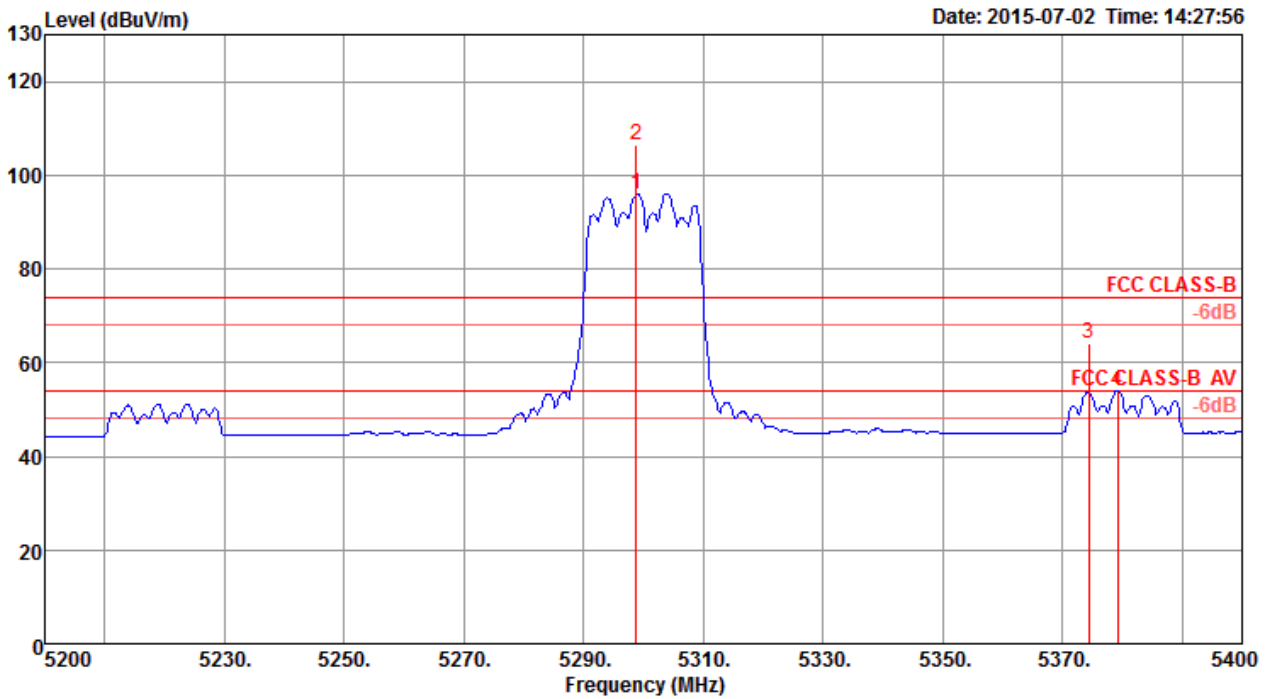


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5098.40	48.88	54.00	-5.12	43.83	6.10	33.96	35.01	Average	200	160	HORIZONTAL
2	5099.20	60.53	74.00	-13.47	55.48	6.10	33.96	35.01	Peak	200	160	HORIZONTAL
3	5259.20	101.04			95.60	6.21	34.23	35.00	Average	200	160	HORIZONTAL
4	5259.20	110.99			105.55	6.21	34.23	35.00	Peak	200	160	HORIZONTAL
5	5419.20	53.91	54.00	-0.09	48.12	6.31	34.47	34.99	Average	200	160	HORIZONTAL
6	5419.20	63.64	74.00	-10.36	57.85	6.31	34.47	34.99	Peak	200	160	HORIZONTAL

Note 1: Item 3, 4 are the fundamental frequency at 5260 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



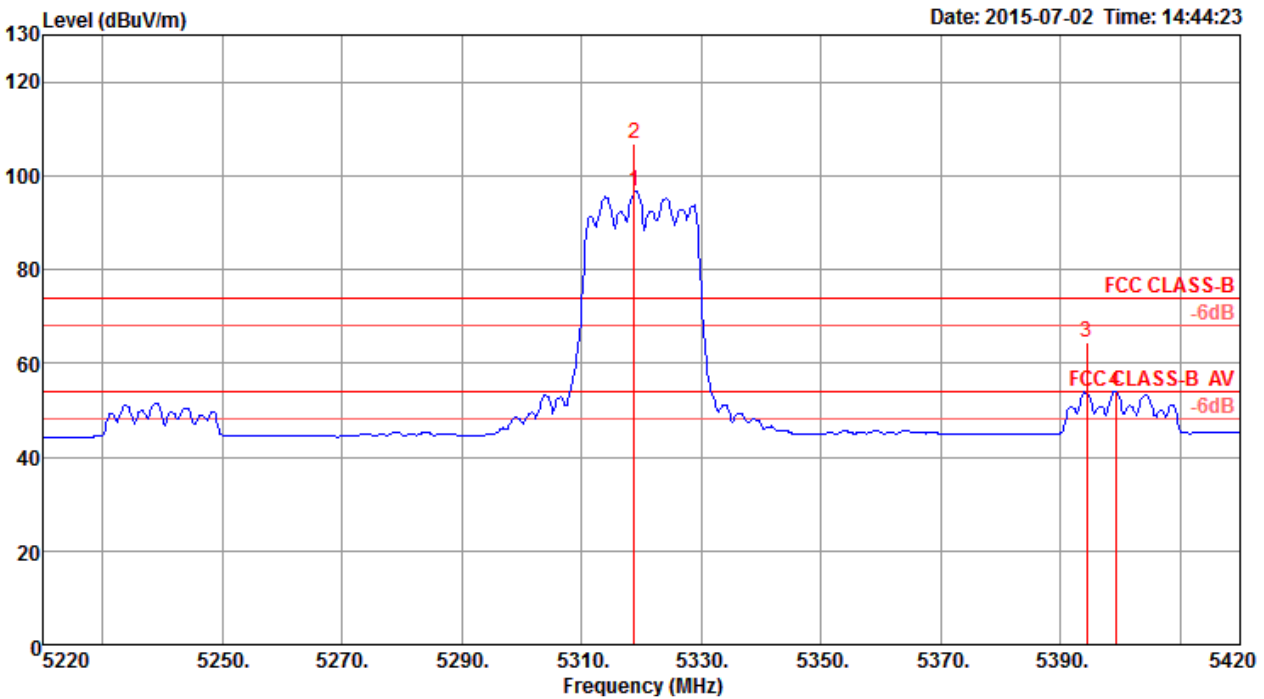
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5298.80	96.10			90.59	6.23	34.28	35.00	205	162	HORIZONTAL
2	5298.80	106.63			101.12	6.23	34.28	35.00	205	162	HORIZONTAL
3	5374.40	64.19	74.00	-9.81	58.52	6.27	34.39	34.99	205	162	HORIZONTAL
4	5379.20	53.98	54.00	-0.02	48.28	6.28	34.41	34.99	205	162	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5300 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

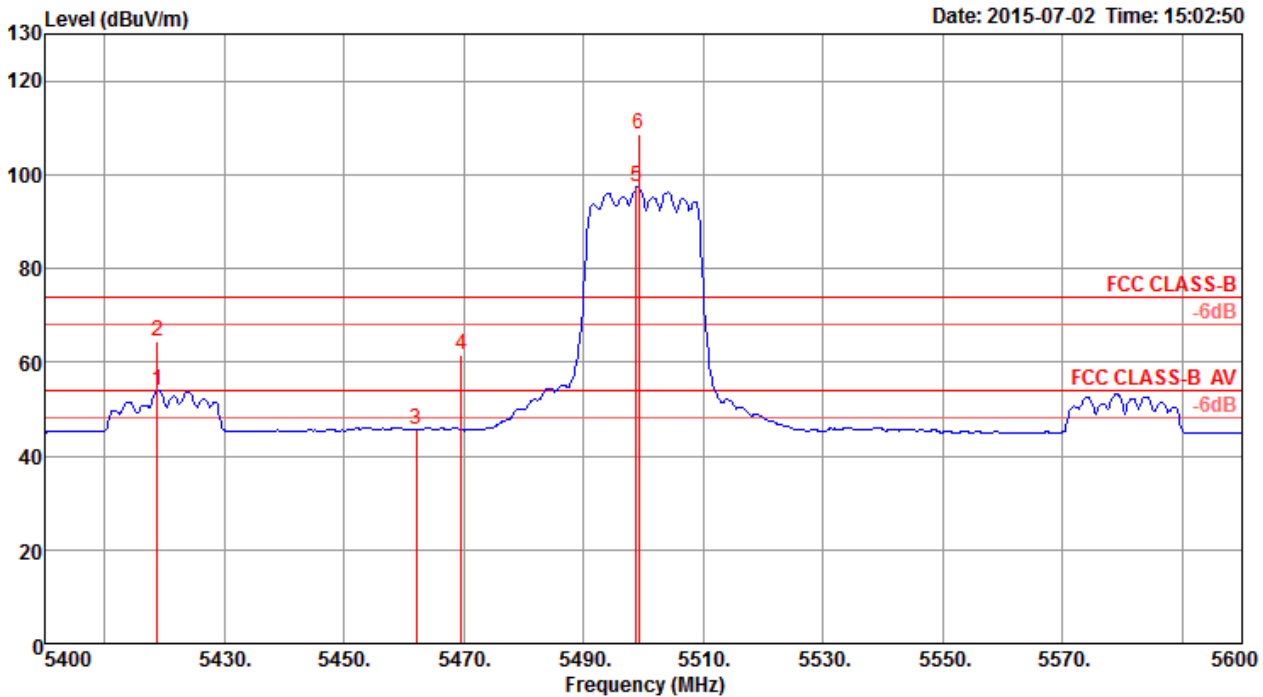
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5318.80	96.65			91.10	6.24	34.31	35.00 Average	204	162	HORIZONTAL
2	5318.80	106.78			101.23	6.24	34.31	35.00 Peak	204	162	HORIZONTAL
3	5394.40	64.47	74.00	-9.53	58.77	6.28	34.41	34.99 Peak	204	162	HORIZONTAL
4	5399.20	53.95	54.00	-0.05	48.21	6.29	34.44	34.99 Average	204	162	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5320 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

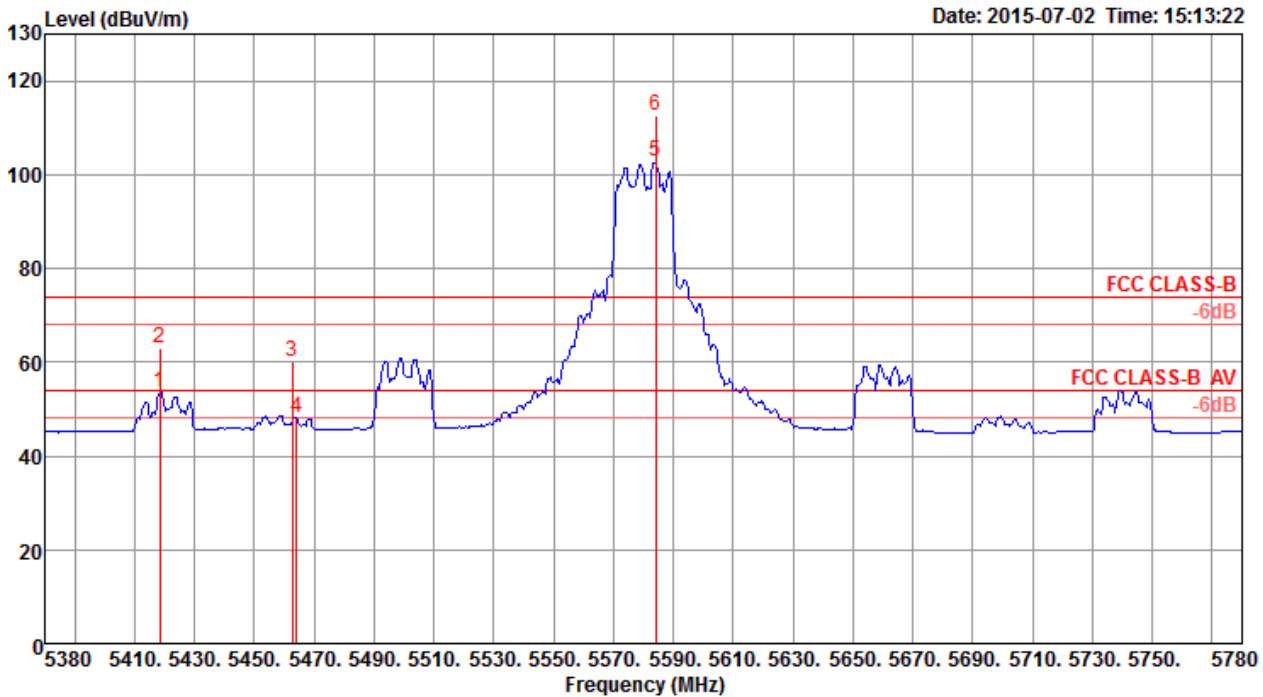
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5418.80	53.98	54.00	-0.02	48.19	6.31	34.47	34.99	Average	155	289	VERTICAL
2	5418.80	64.33	74.00	-9.67	58.54	6.31	34.47	34.99	Peak	155	289	VERTICAL
3	5462.00	45.72	54.00	-8.28	39.86	6.33	34.52	34.99	Average	155	289	VERTICAL
4	5469.60	61.52	74.00	-12.48	55.62	6.34	34.55	34.99	Peak	155	289	VERTICAL
5	5498.80	97.33			91.36	6.36	34.60	34.99	Average	155	289	VERTICAL
6	5499.20	108.70			102.73	6.36	34.60	34.99	Peak	155	289	VERTICAL

Note 1: Item 5, 6 are the fundamental frequency at 5500 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

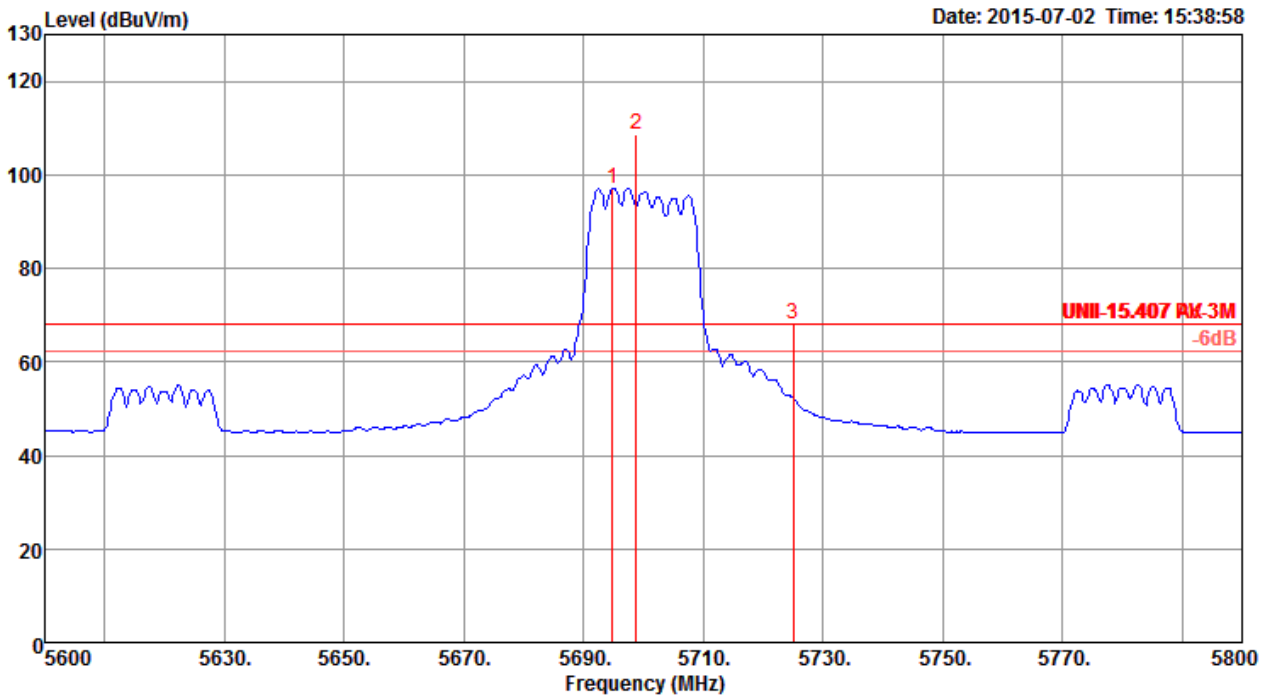
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5418.40	53.59	54.00	-0.41	47.80	6.31	34.47	34.99 Average	200	160	HORIZONTAL
2	5418.40	63.05	74.00	-10.95	57.26	6.31	34.47	34.99 Peak	200	160	HORIZONTAL
3	5462.80	60.16	74.00	-13.84	54.26	6.34	34.55	34.99 Peak	200	160	HORIZONTAL
4	5464.00	48.15	54.00	-5.85	42.25	6.34	34.55	34.99 Average	200	160	HORIZONTAL
5	5584.00	102.90			96.90	6.39	34.62	35.01 Average	200	160	HORIZONTAL
6	5584.00	112.54			106.54	6.39	34.62	35.01 Peak	200	160	HORIZONTAL

Note 1: Item 5, 6 are the fundamental frequency at 5580 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

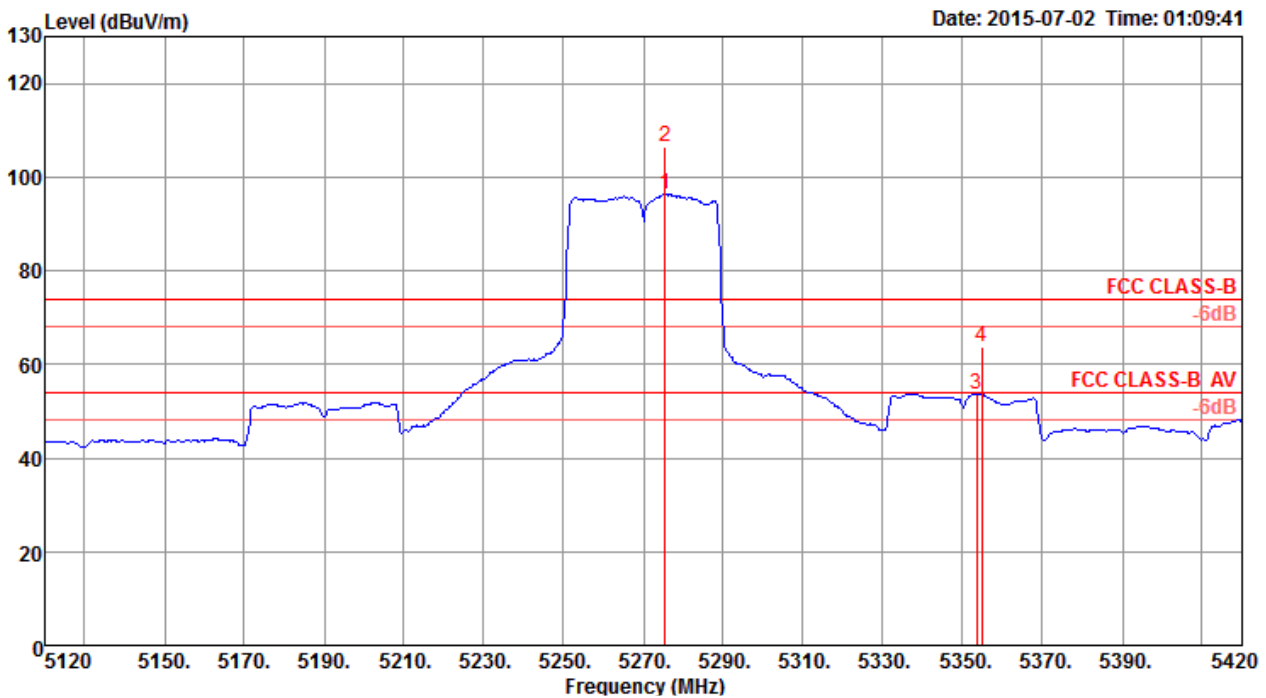
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5694.80	97.14			91.10	6.43	34.64	35.03	Average	231	284	VERTICAL
2	5698.80	108.58			102.54	6.43	34.64	35.03	Peak	231	284	VERTICAL
3	5725.00	68.09	68.20	-0.11	62.03	6.45	34.64	35.03	Peak	231	284	VERTICAL

Note 1: Item 1, 2 are the fundamental frequency at 5700 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

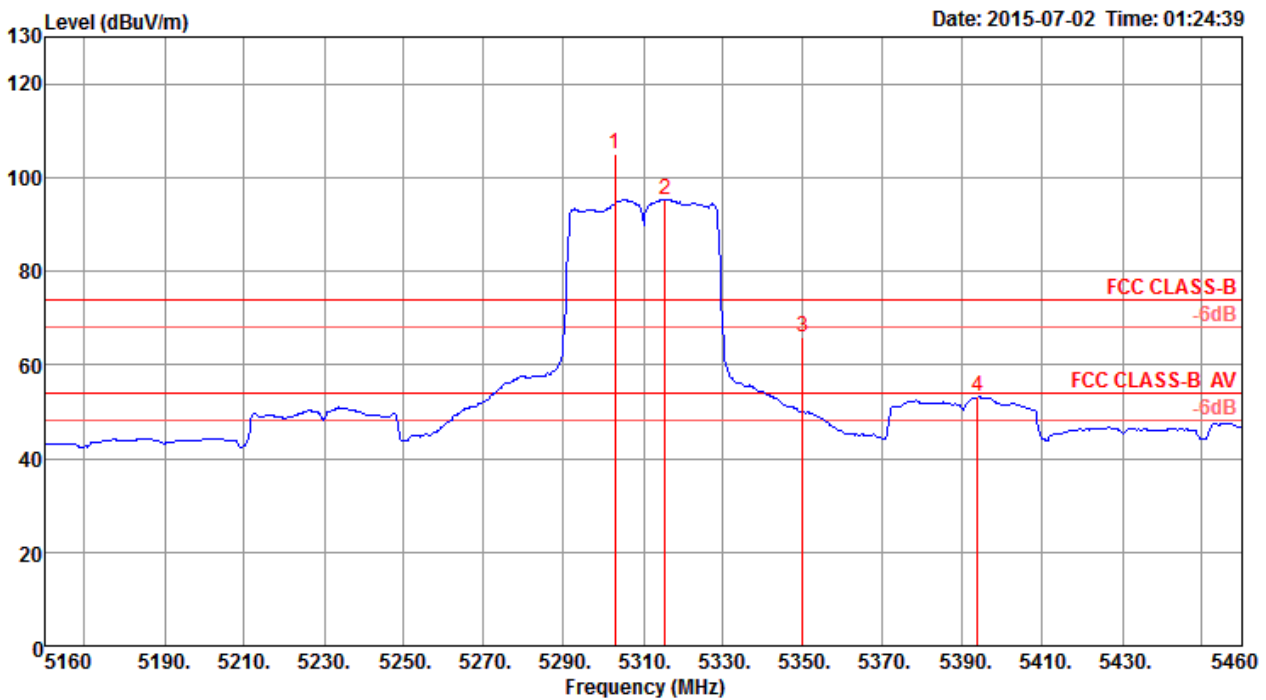
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5275.40	96.21			90.77	6.21	34.23	35.00 Average	132	190	HORIZONTAL
2	5275.40	106.58			101.14	6.21	34.23	35.00 Peak	132	190	HORIZONTAL
3	5353.60	53.66	54.00	-0.34	48.04	6.26	34.36	35.00 Average	132	190	HORIZONTAL
4	5354.80	63.85	74.00	-10.15	58.23	6.26	34.36	35.00 Peak	132	190	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5270 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

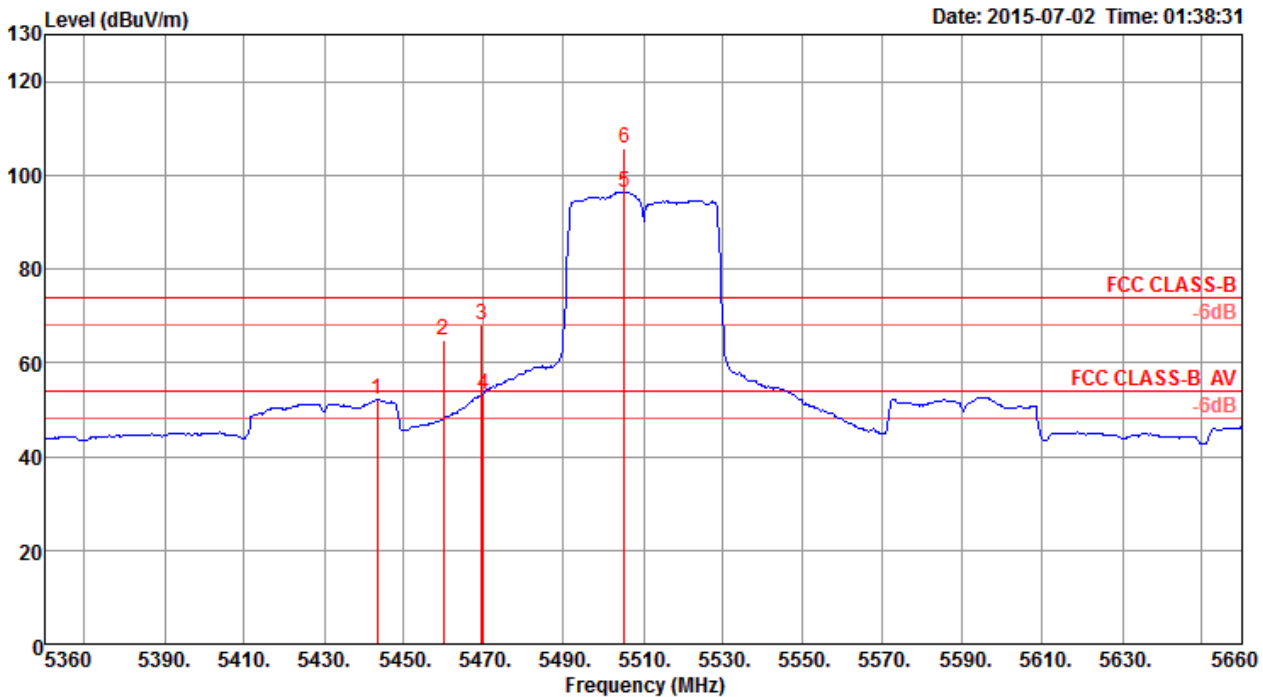
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5302.80	105.17			99.66	6.23	34.28	35.00 Peak	130	187	HORIZONTAL
2	5315.40	95.40			89.85	6.24	34.31	35.00 Average	130	187	HORIZONTAL
3	5350.00	65.84	74.00	-8.16	60.22	6.26	34.36	35.00 Peak	130	187	HORIZONTAL
4	5393.80	53.15	54.00	-0.85	47.45	6.28	34.41	34.99 Average	130	187	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5310 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H

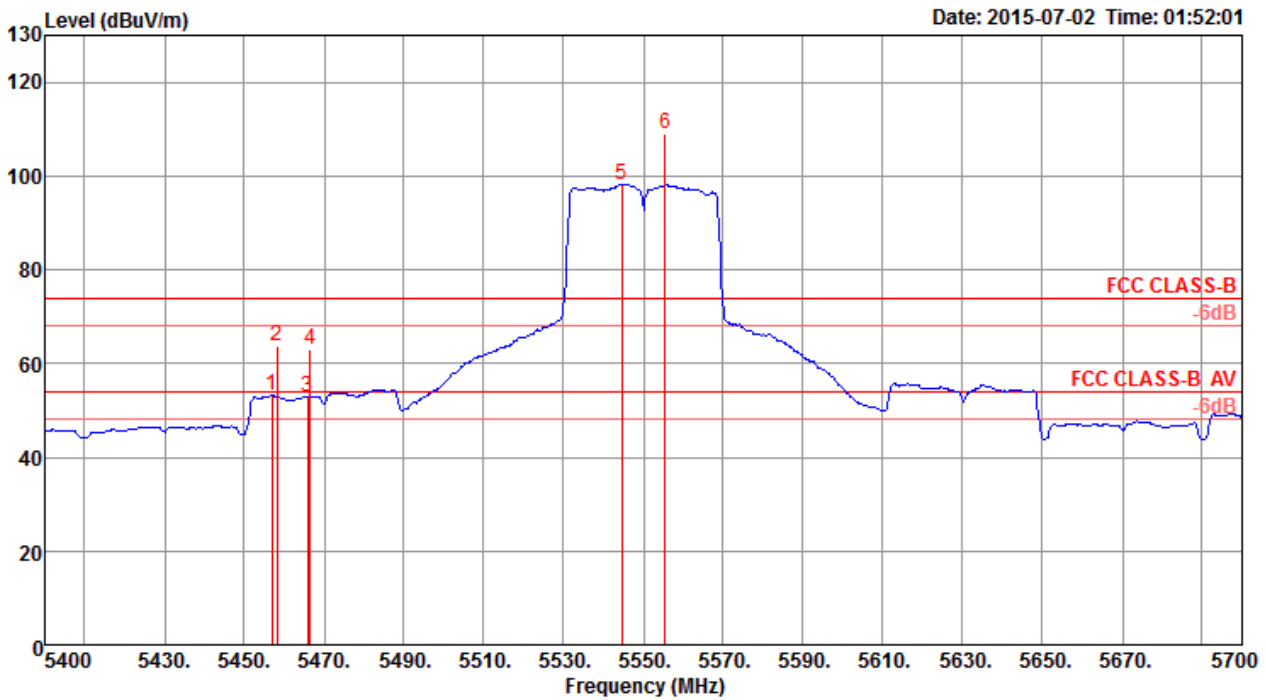


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5443.20	52.17	54.00	-1.83	46.35	6.32	34.49	34.99 Average	116	351	HORIZONTAL
2	5460.00	64.81	74.00	-9.19	58.95	6.33	34.52	34.99 Peak	116	351	HORIZONTAL
3	5469.40	68.22	74.00	-5.78	62.32	6.34	34.55	34.99 Peak	116	351	HORIZONTAL
4	5470.00	53.33	54.00	-0.67	47.43	6.34	34.55	34.99 Average	116	351	HORIZONTAL
5	5505.20	96.40			90.44	6.36	34.60	35.00 Average	116	351	HORIZONTAL
6	5505.20	105.62			99.66	6.36	34.60	35.00 Peak	116	351	HORIZONTAL

Note 1: Item 5, 6 are the fundamental frequency at 5510 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



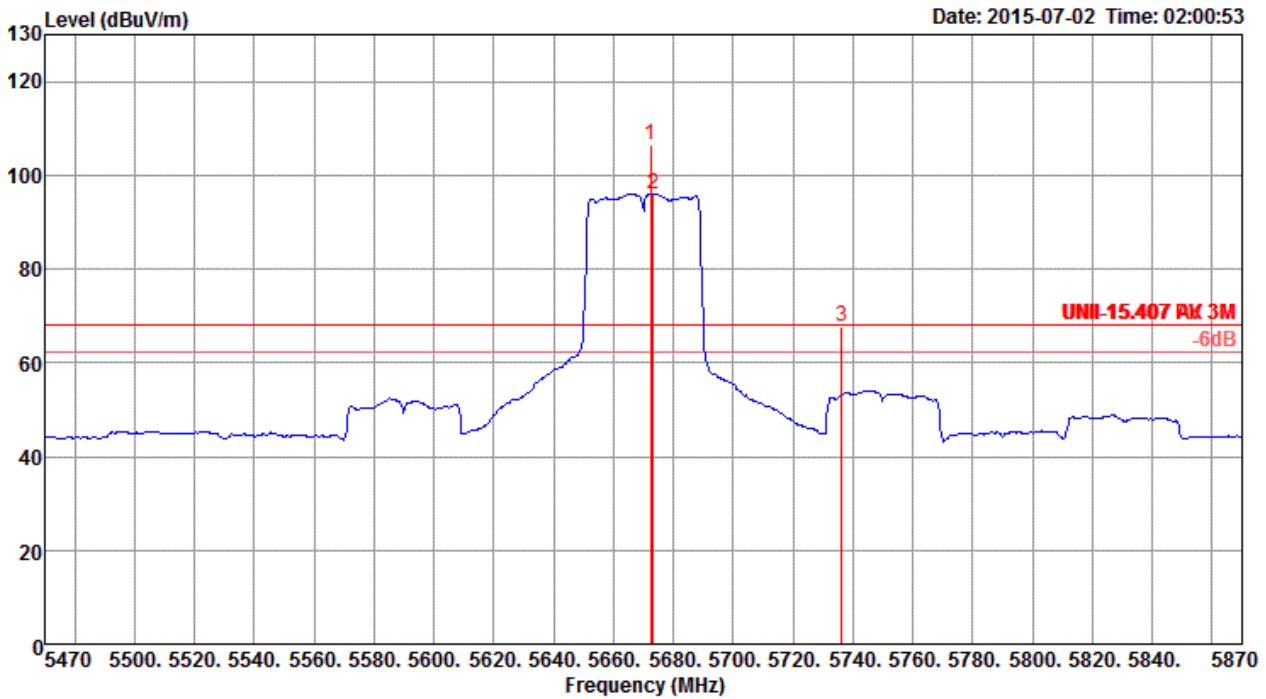
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5457.00	53.26	54.00	-0.74	47.40	6.33	34.52	34.99 Average	173	358	HORIZONTAL
2	5458.20	63.63	74.00	-10.37	57.77	6.33	34.52	34.99 Peak	173	358	HORIZONTAL
3	5465.80	52.95	54.00	-1.05	47.05	6.34	34.55	34.99 Average	173	358	HORIZONTAL
4	5466.40	63.17	74.00	-10.83	57.27	6.34	34.55	34.99 Peak	173	358	HORIZONTAL
5	5544.60	98.25			92.27	6.37	34.61	35.00 Average	173	358	HORIZONTAL
6	5555.40	108.91			102.93	6.38	34.61	35.01 Peak	173	358	HORIZONTAL

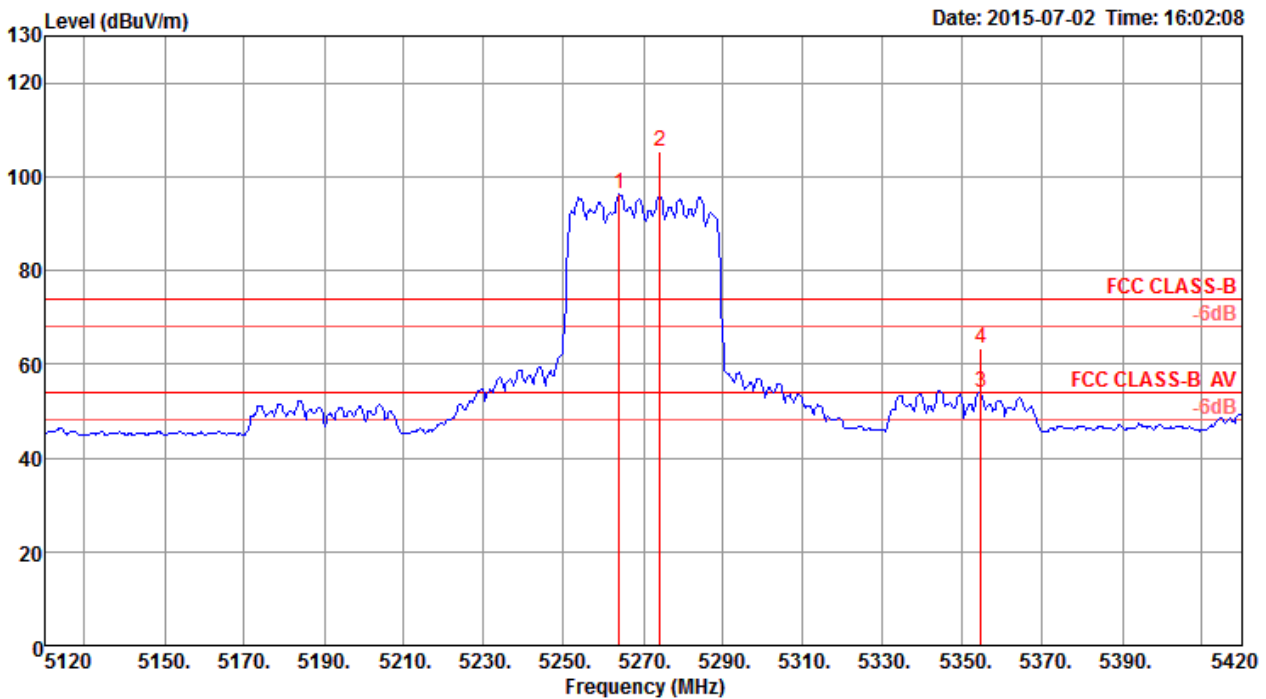
Note 1: Item 5, 6 are the fundamental frequency at 5550 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



Note 1: Item 1, 2 are the fundamental frequency at 5670 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

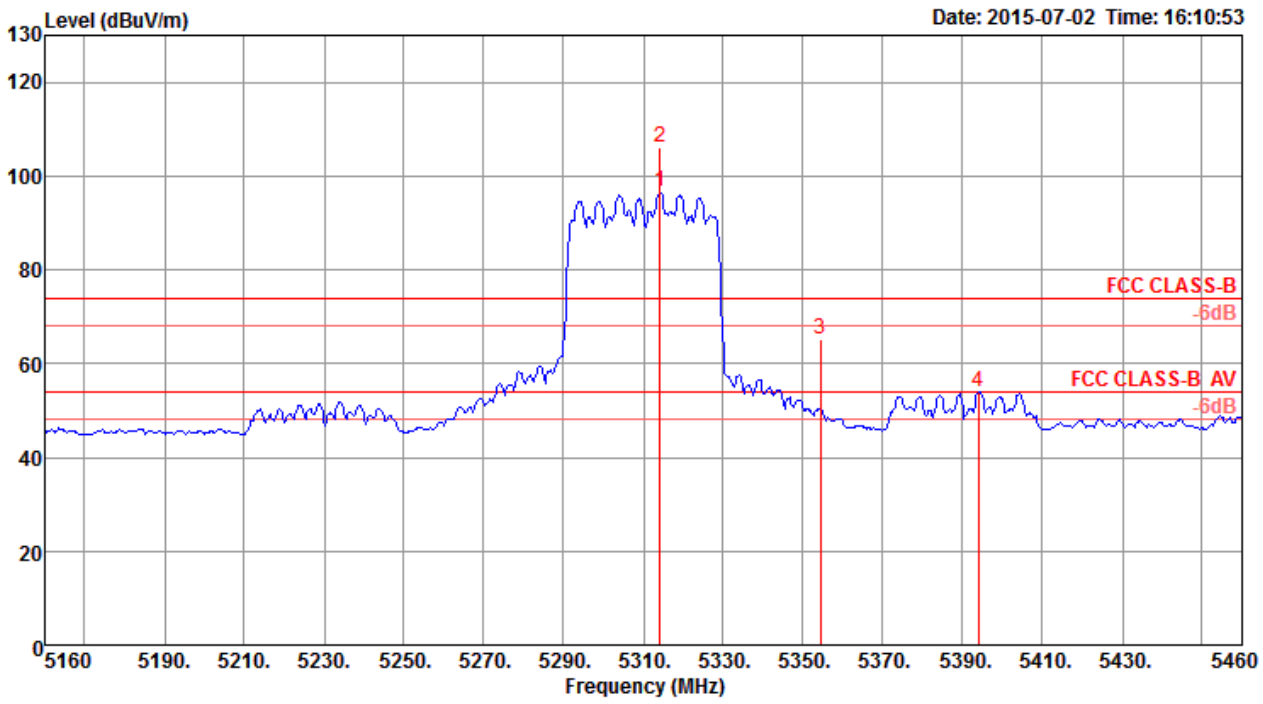
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5264.00	96.26			90.82	6.21	34.23	35.00 Average	205	167	HORIZONTAL
2	5274.20	105.31			99.87	6.21	34.23	35.00 Peak	205	167	HORIZONTAL
3	5354.60	53.88	54.00	-0.12	48.26	6.26	34.36	35.00 Average	205	167	HORIZONTAL
4	5354.60	63.34	74.00	-10.66	57.72	6.26	34.36	35.00 Peak	205	167	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5270 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

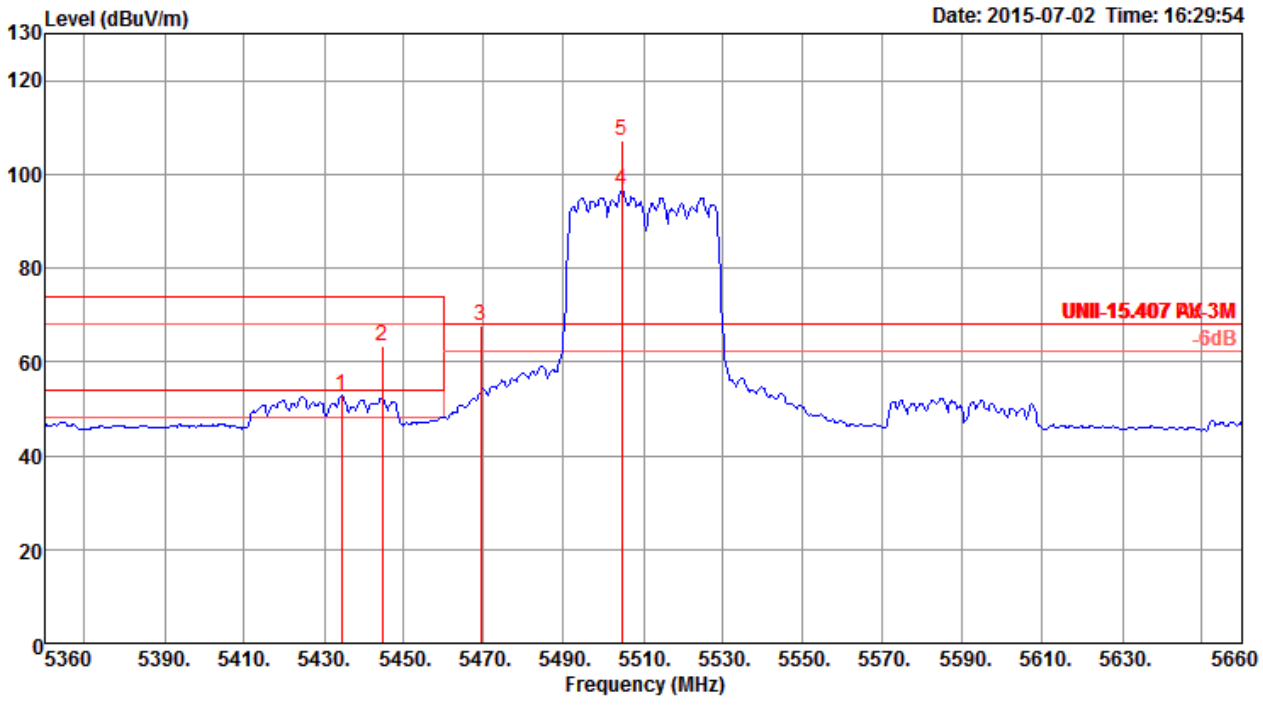
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5314.20	96.73			91.18	6.24	34.31	35.00 Average	203	160	HORIZONTAL
2	5314.20	106.03			100.48	6.24	34.31	35.00 Peak	203	160	HORIZONTAL
3	5354.40	65.32	74.00	-8.68	59.70	6.26	34.36	35.00 Peak	203	160	HORIZONTAL
4	5394.00	53.98	54.00	-0.02	48.28	6.28	34.41	34.99 Average	203	160	HORIZONTAL

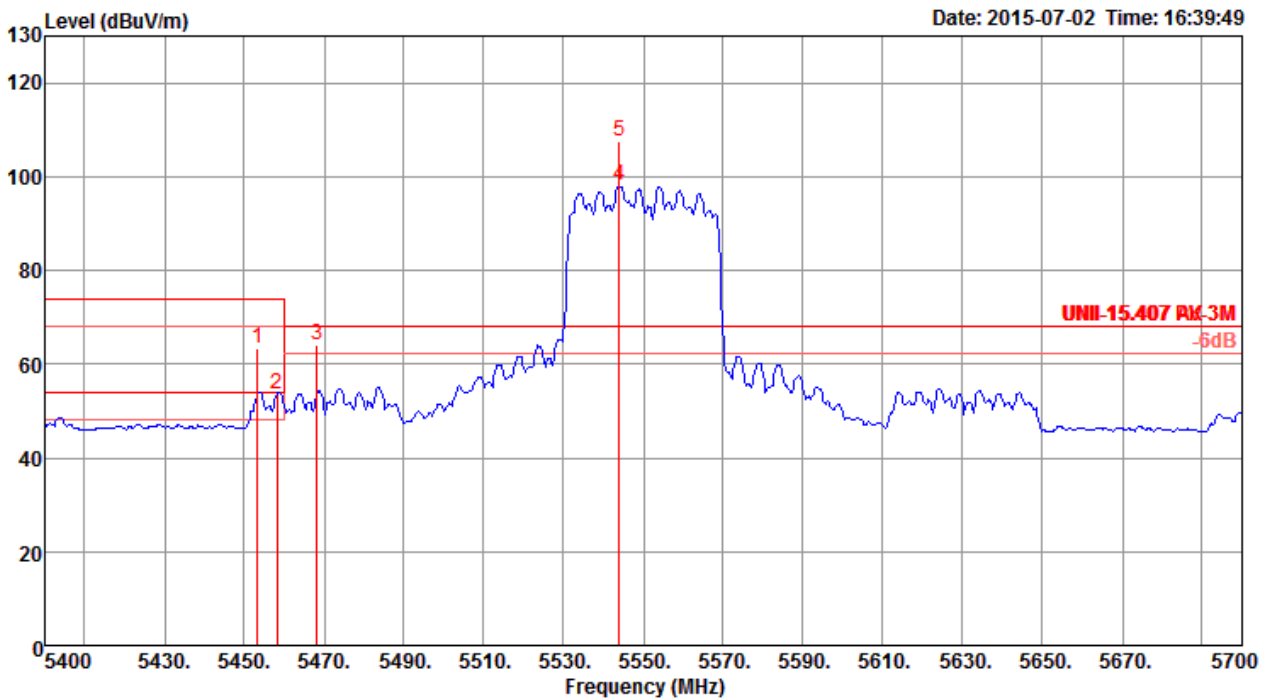
Note 1: Item 1, 2 are the fundamental frequency at 5310 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



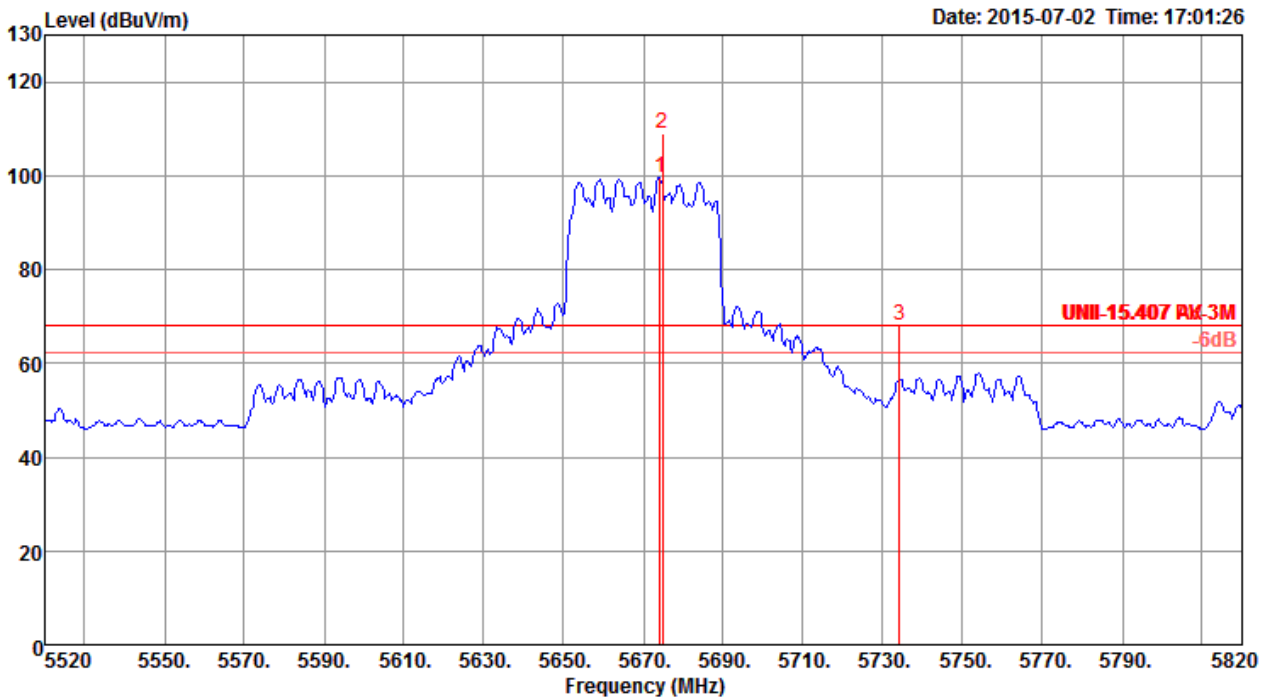
Note 1: Item 4, 5 are the fundamental frequency at 5510 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



Note 1: Item 4, 5 are the fundamental frequency at 5550 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

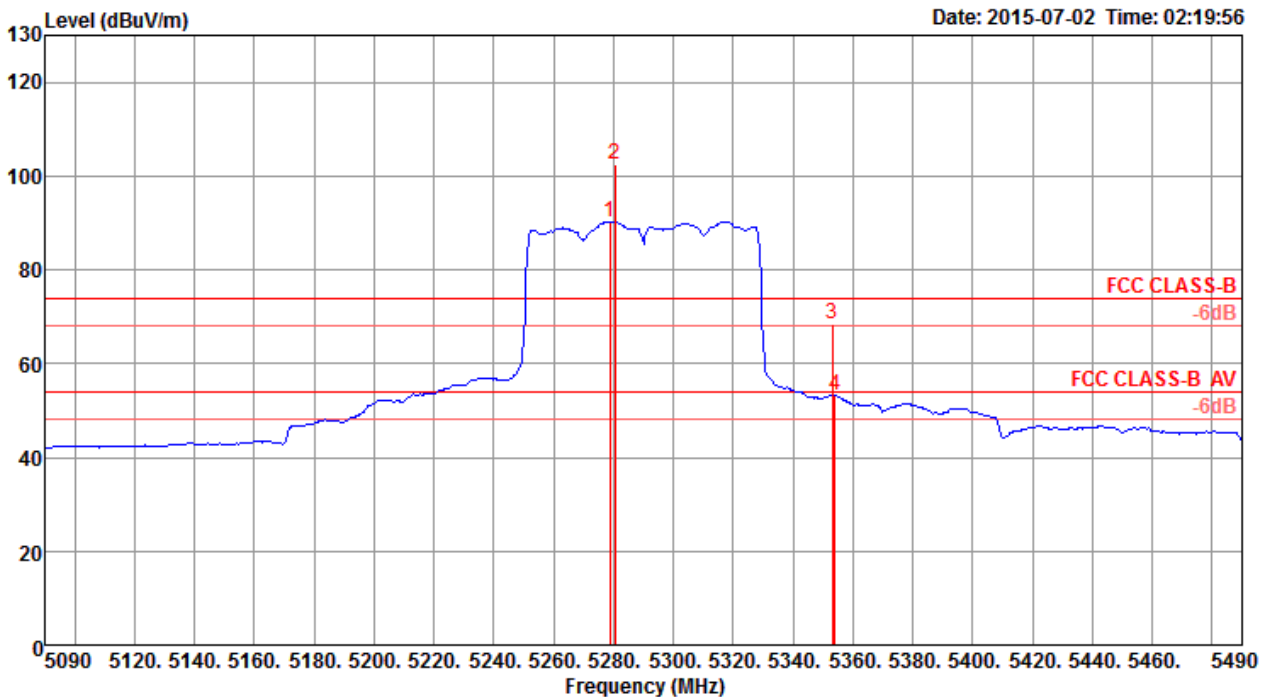
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5674.20	99.47			93.44	6.43	34.63	35.03 Average	196	163	HORIZONTAL
2	5674.80	109.16			103.13	6.43	34.63	35.03 Peak	196	163	HORIZONTAL
3	5734.20	67.98	68.20	-0.22	61.93	6.45	34.64	35.04 Peak	196	163	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5670 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H

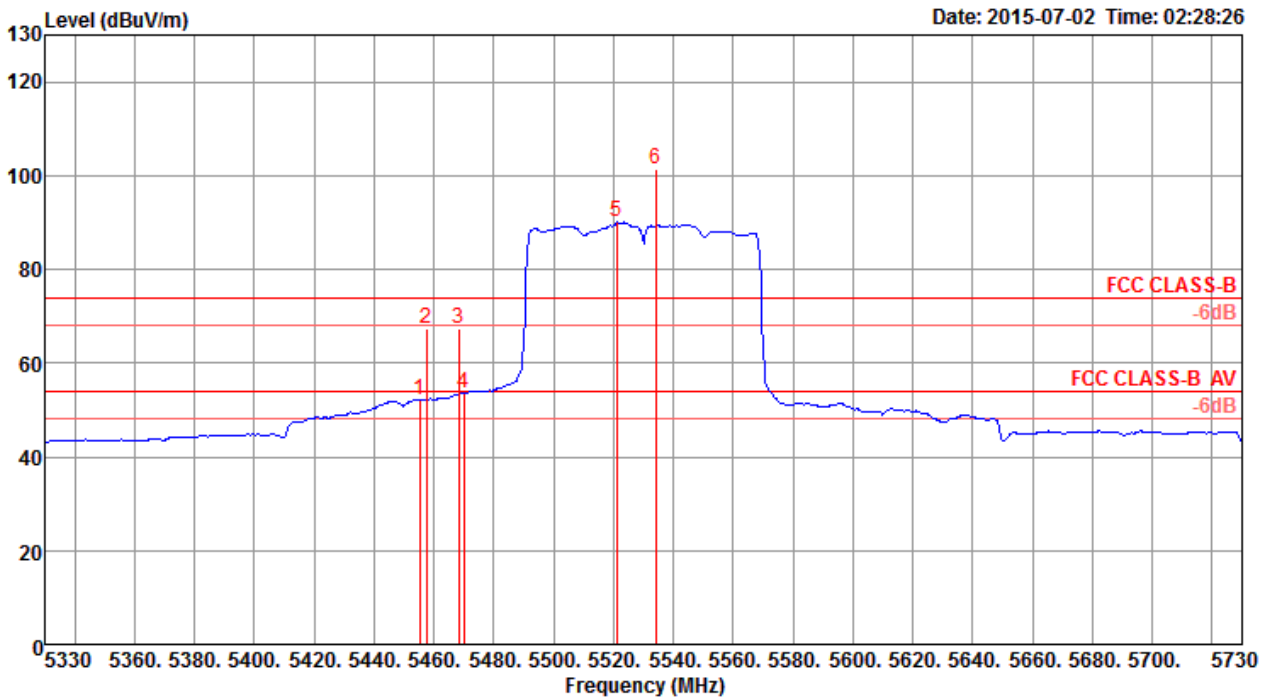


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5278.80	90.30			84.83	6.22	34.25	35.00 Average	131	192	HORIZONTAL
2	5280.40	102.53			97.06	6.22	34.25	35.00 Peak	131	192	HORIZONTAL
3	5353.20	68.33	74.00	-5.67	62.71	6.26	34.36	35.00 Peak	131	192	HORIZONTAL
4	5354.00	53.25	54.00	-0.75	47.63	6.26	34.36	35.00 Average	131	192	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5290 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



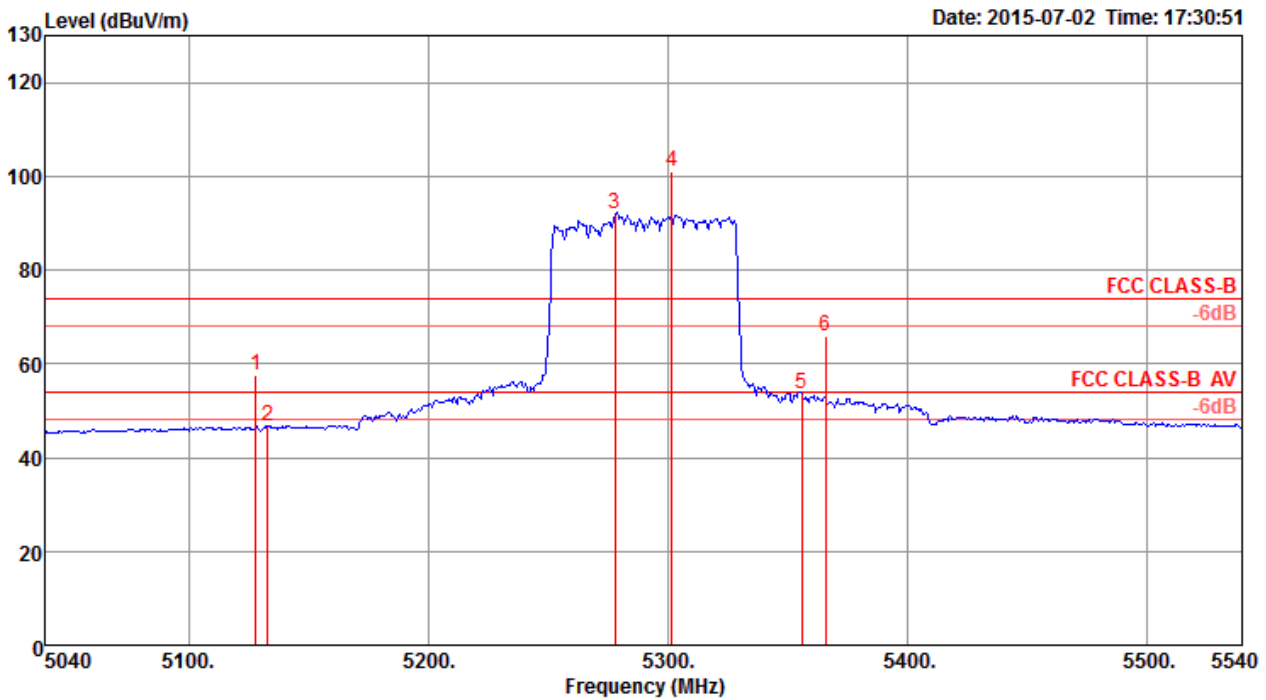
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1 (1S1T)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5455.20	52.23	54.00	-1.77	46.37	6.33	34.52	34.99 Average	180	178	HORIZONTAL
2	5457.60	67.43	74.00	-6.57	61.57	6.33	34.52	34.99 Peak	180	178	HORIZONTAL
3	5468.40	67.34	74.00	-6.66	61.44	6.34	34.55	34.99 Peak	180	178	HORIZONTAL
4	5470.00	53.61	54.00	-0.39	47.71	6.34	34.55	34.99 Average	180	178	HORIZONTAL
5	5521.20	90.01			84.04	6.37	34.60	35.00 Average	180	178	HORIZONTAL
6	5534.00	101.31			95.33	6.37	34.61	35.00 Peak	180	178	HORIZONTAL

Note 1: Item 5, 6 are the fundamental frequency at 5530 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

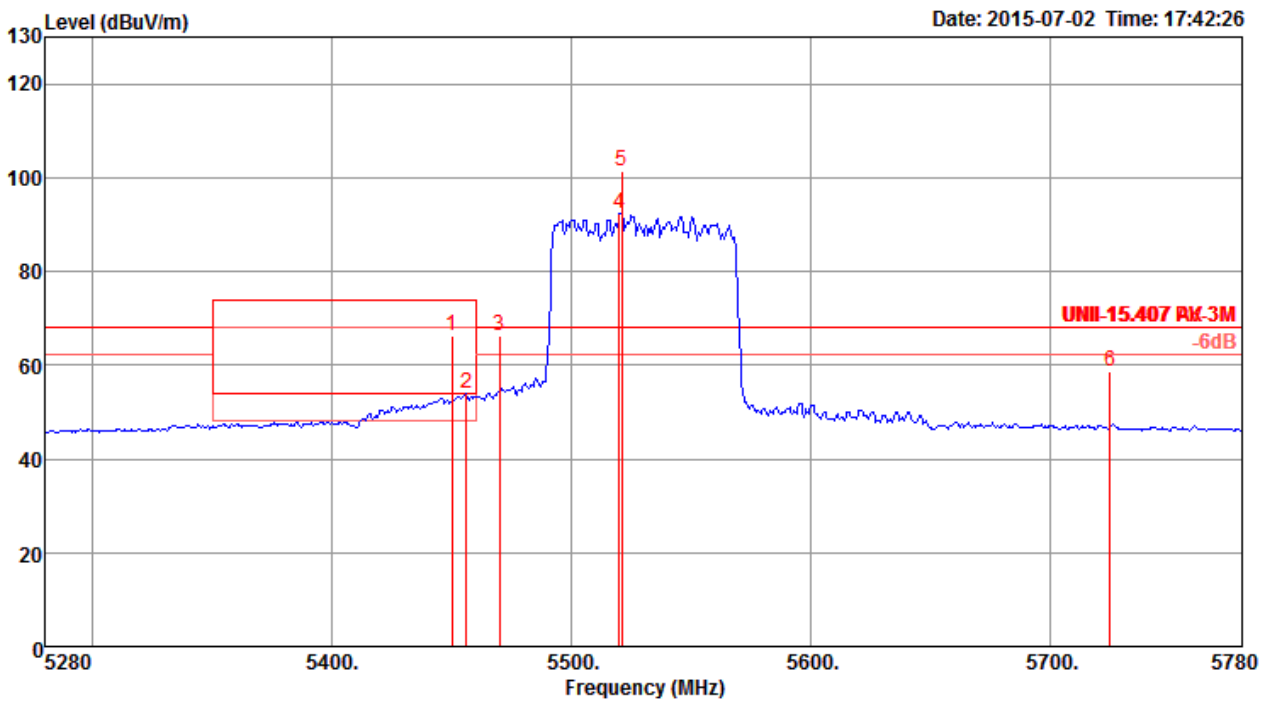
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5128.00	57.46	74.00	-16.54	52.33	6.12	34.01	35.00	180	33	VERTICAL
2	5133.00	46.69	54.00	-7.31	41.56	6.12	34.01	35.00	180	33	VERTICAL
3	5278.00	92.08			86.61	6.22	34.25	35.00	180	33	VERTICAL
4	5302.00	101.01			95.50	6.23	34.28	35.00	180	33	VERTICAL
5	5356.00	53.66	54.00	-0.34	48.04	6.26	34.36	35.00	180	33	VERTICAL
6	5366.00	66.05	74.00	-7.95	60.39	6.27	34.39	35.00	180	33	VERTICAL

Note 1: Item 3, 4 are the fundamental frequency at 5290 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1+2+3 (1S3T, CDD2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V

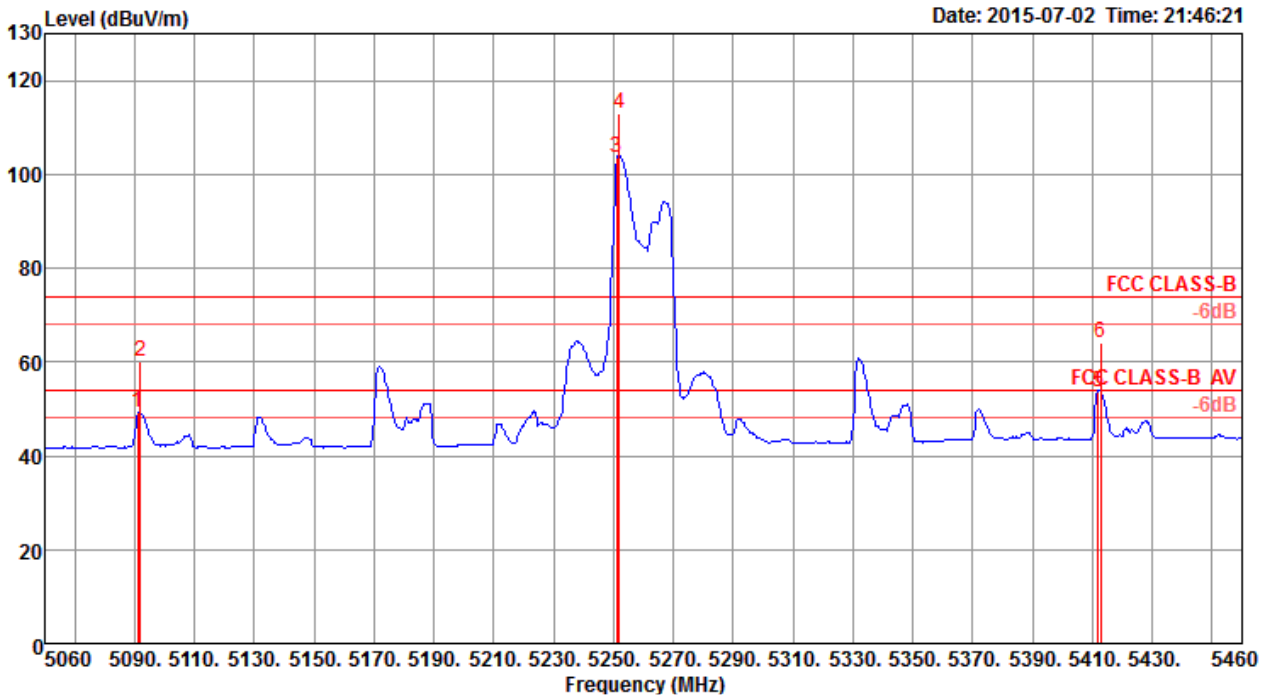


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5450.00	66.26	74.00	-7.74	60.40	6.33	34.52	34.99	Peak	181	37	VERTICAL
2	5456.00	53.82	54.00	-0.18	47.96	6.33	34.52	34.99	Average	181	37	VERTICAL
3	5470.00	66.31	68.20	-1.89	60.41	6.34	34.55	34.99	Peak	181	37	VERTICAL
4	5520.00	92.38			86.41	6.37	34.60	35.00	Average	181	37	VERTICAL
5	5521.00	101.22			95.25	6.37	34.60	35.00	Peak	181	37	VERTICAL
6	5725.00	58.52	68.20	-9.68	52.46	6.45	34.64	35.03	Peak	181	37	VERTICAL

Note 1: Item 4, 5 are the fundamental frequency at 5530 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

For Beamforming

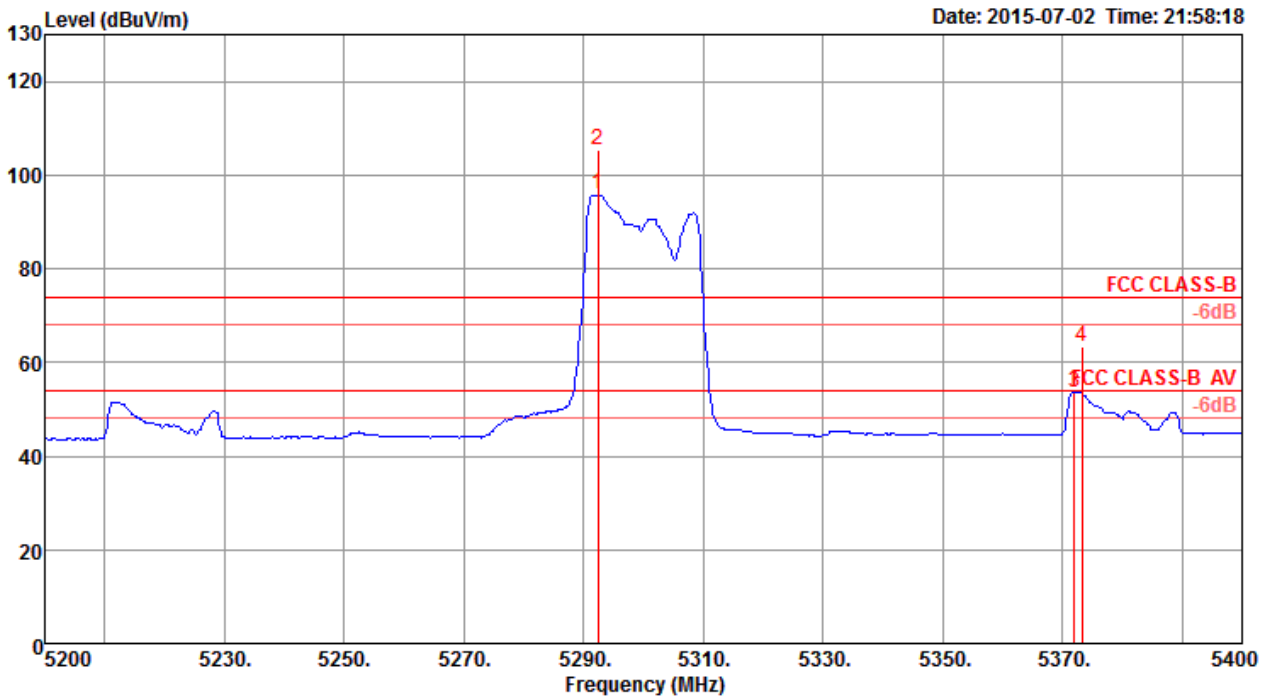
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 52 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5091.20	49.33	54.00	-4.67	44.28	6.10	33.96	35.01 Average	150	346	HORIZONTAL
2	5092.00	60.07	74.00	-13.93	55.02	6.10	33.96	35.01 Peak	150	346	HORIZONTAL
3	5251.20	103.44			98.04	6.20	34.20	35.00 Average	150	346	HORIZONTAL
4	5252.00	113.09			107.69	6.20	34.20	35.00 Peak	150	346	HORIZONTAL
5	5412.00	53.58	54.00	-0.42	47.79	6.31	34.47	34.99 Average	150	346	HORIZONTAL
6	5412.80	64.00	74.00	-10.00	58.21	6.31	34.47	34.99 Peak	150	346	HORIZONTAL

Note 1: Item 3, 4 are the fundamental frequency at 5260 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

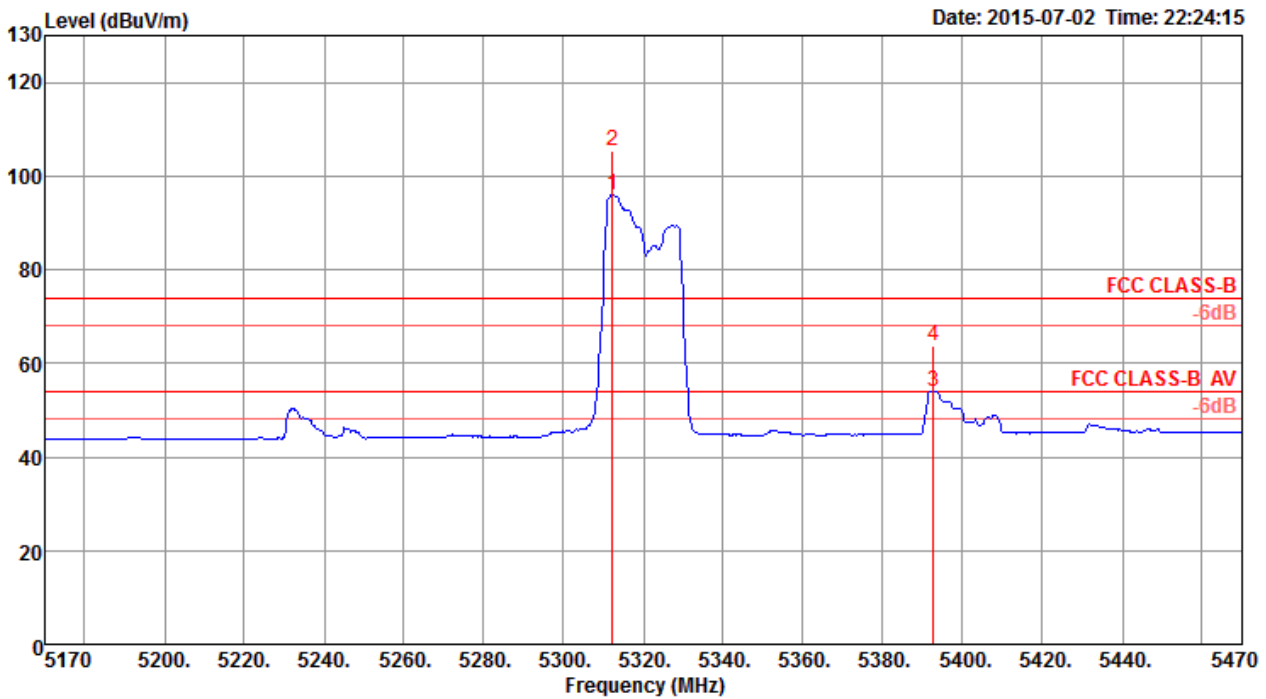
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 60 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5292.40	95.80			90.33	6.22	34.25	35.00	Average	146	194	HORIZONTAL
2	5292.40	105.24			99.77	6.22	34.25	35.00	Peak	146	194	HORIZONTAL
3	5372.00	53.68	54.00	-0.32	48.02	6.27	34.39	35.00	Average	146	194	HORIZONTAL
4	5373.20	63.54	74.00	-10.46	57.88	6.27	34.39	35.00	Peak	146	194	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5300 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

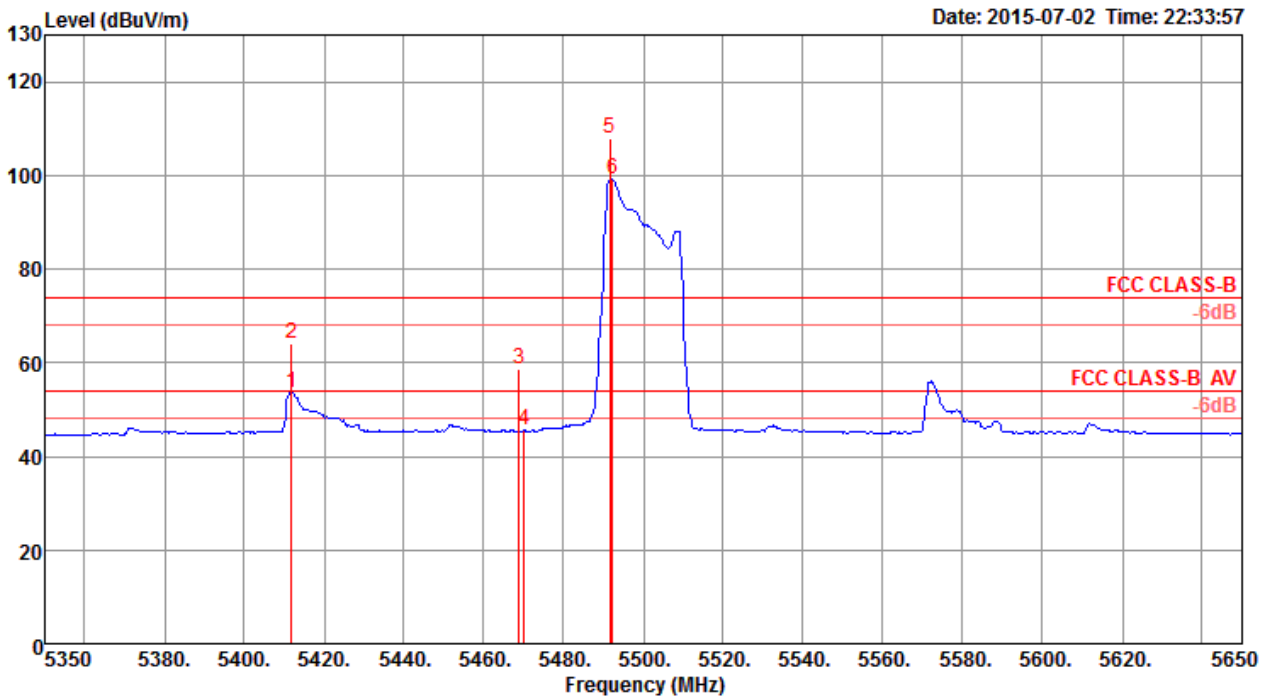
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 64 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5312.20	95.82			90.27	6.24	34.31	35.00 Average	146	296	HORIZONTAL
2	5312.20	105.41			99.86	6.24	34.31	35.00 Peak	146	296	HORIZONTAL
3	5392.60	53.92	54.00	-0.08	48.22	6.28	34.41	34.99 Average	146	296	HORIZONTAL
4	5392.60	63.90	74.00	-10.10	58.20	6.28	34.41	34.99 Peak	146	296	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5320 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

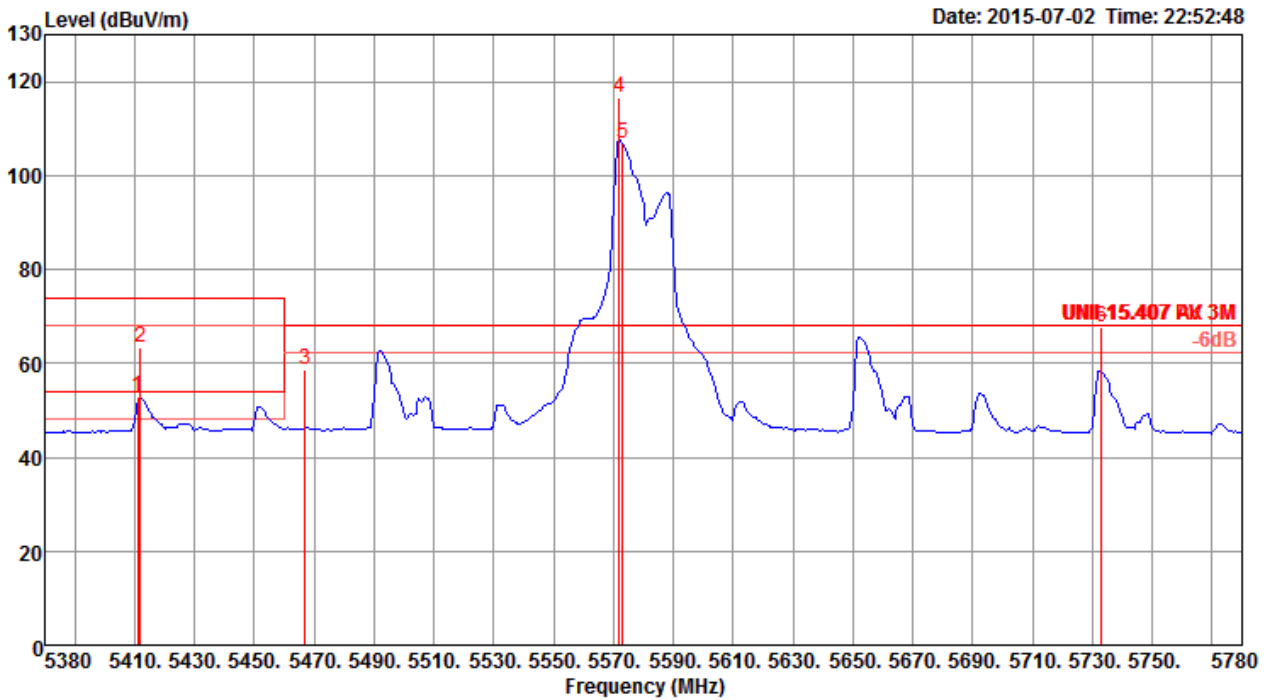
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 100 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5411.80	53.51	54.00	-0.49	47.72	6.31	34.47	34.99	Average	136	295	HORIZONTAL
2	5411.80	64.05	74.00	-9.95	58.26	6.31	34.47	34.99	Peak	136	295	HORIZONTAL
3	5468.80	58.51	74.00	-15.49	52.61	6.34	34.55	34.99	Peak	136	295	HORIZONTAL
4	5470.00	45.48	54.00	-8.52	39.58	6.34	34.55	34.99	Average	136	295	HORIZONTAL
5	5491.60	107.95			102.02	6.35	34.57	34.99	Peak	136	295	HORIZONTAL
6	5492.20	99.10			93.17	6.35	34.57	34.99	Average	136	295	HORIZONTAL

Note 1: Item 5, 6 are the fundamental frequency at 5500 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 116 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H

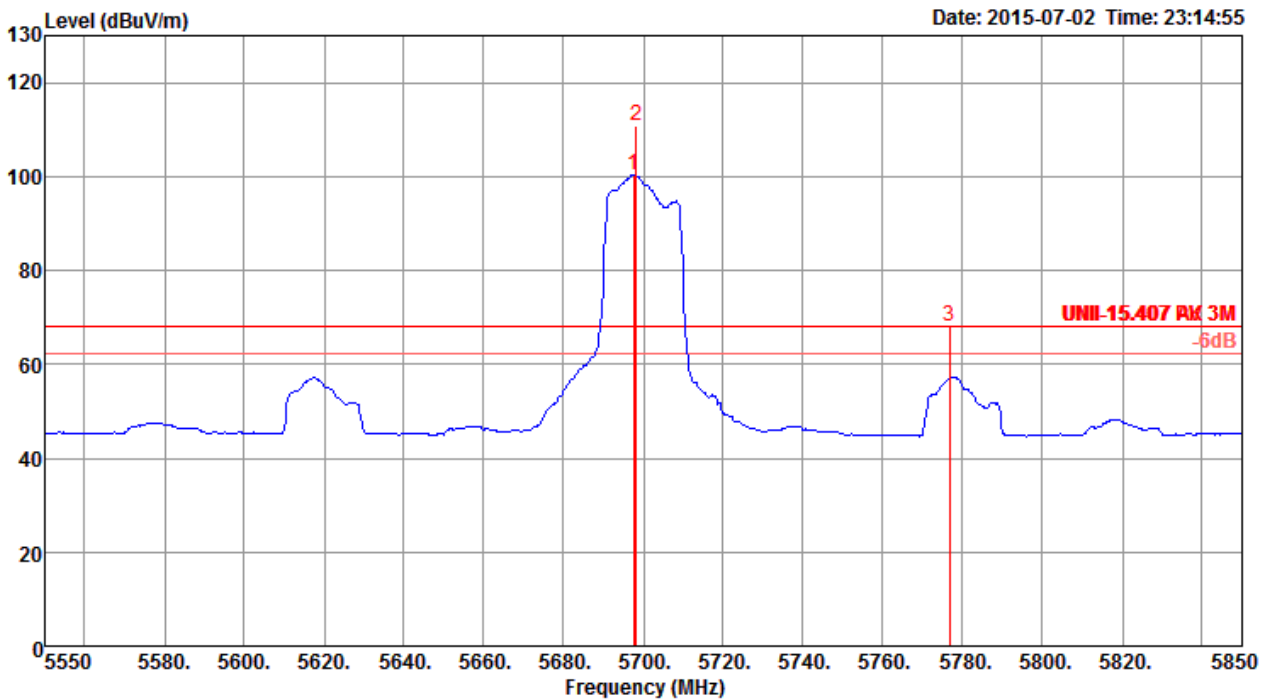


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5411.00	52.72	54.00	-1.28	46.98	6.29	34.44	34.99 Average	150	360	HORIZONTAL
2	5412.00	63.29	74.00	-10.71	57.50	6.31	34.47	34.99 Peak	150	360	HORIZONTAL
3	5467.00	58.58	68.20	-9.62	52.68	6.34	34.55	34.99 Peak	150	360	HORIZONTAL
4	5572.00	116.73			110.74	6.39	34.61	35.01 Peak	150	360	HORIZONTAL
5	5573.00	106.76			100.77	6.39	34.61	35.01 Average	150	360	HORIZONTAL
6	5733.00	67.64	68.20	-0.56	61.59	6.45	34.64	35.04 Peak	150	360	HORIZONTAL

Note 1: Item 4, 5 are the fundamental frequency at 5580 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



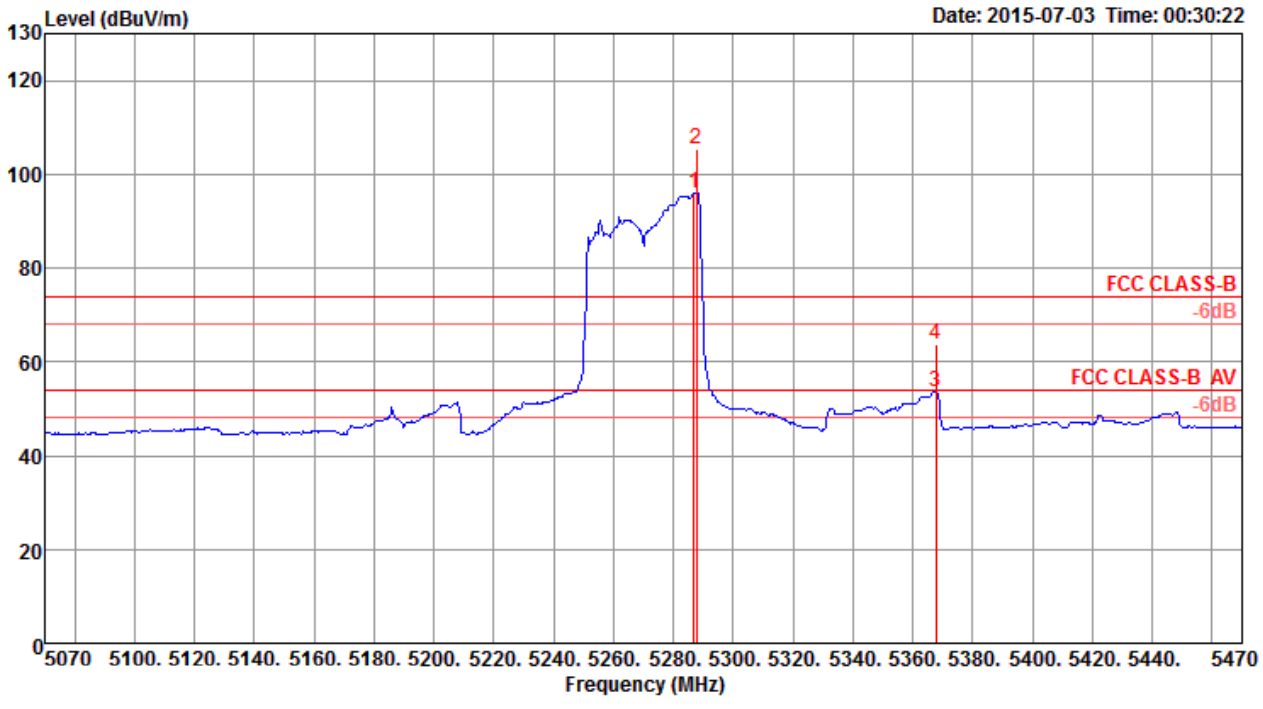
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 20MHz / Nss1MCS0 / CH 140 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5697.60	100.21			94.17	6.43	34.64	35.03	Average	170	3	HORIZONTAL
2	5698.20	110.65			104.61	6.43	34.64	35.03	Peak	170	3	HORIZONTAL
3	5776.80	67.93	68.20	-0.27	61.86	6.46	34.66	35.05	Peak	170	3	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5700 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

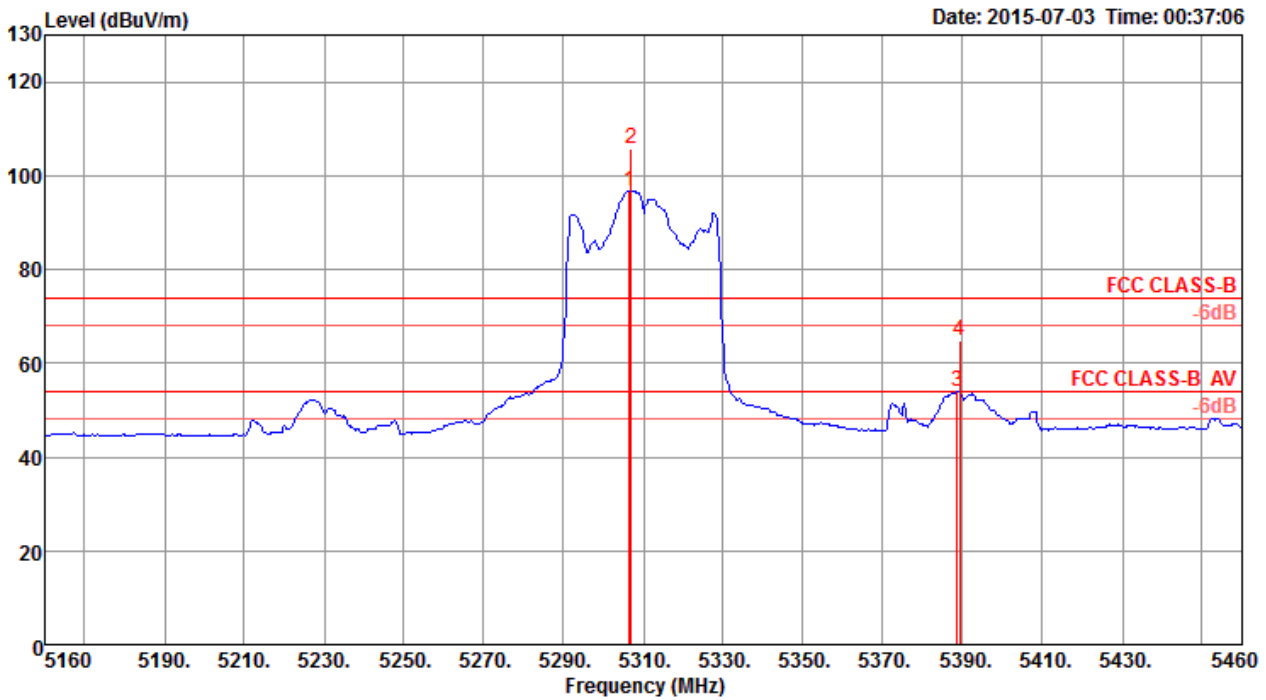
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 54 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5286.80	95.88			90.41	6.22	34.25	35.00 Average	165	50	VERTICAL
2	5287.60	105.29			99.82	6.22	34.25	35.00 Peak	165	50	VERTICAL
3	5367.60	53.48	54.00	-0.52	47.82	6.27	34.39	35.00 Average	165	50	VERTICAL
4	5367.60	63.60	74.00	-10.40	57.94	6.27	34.39	35.00 Peak	165	50	VERTICAL

Note 1: Item 1, 2 are the fundamental frequency at 5270 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

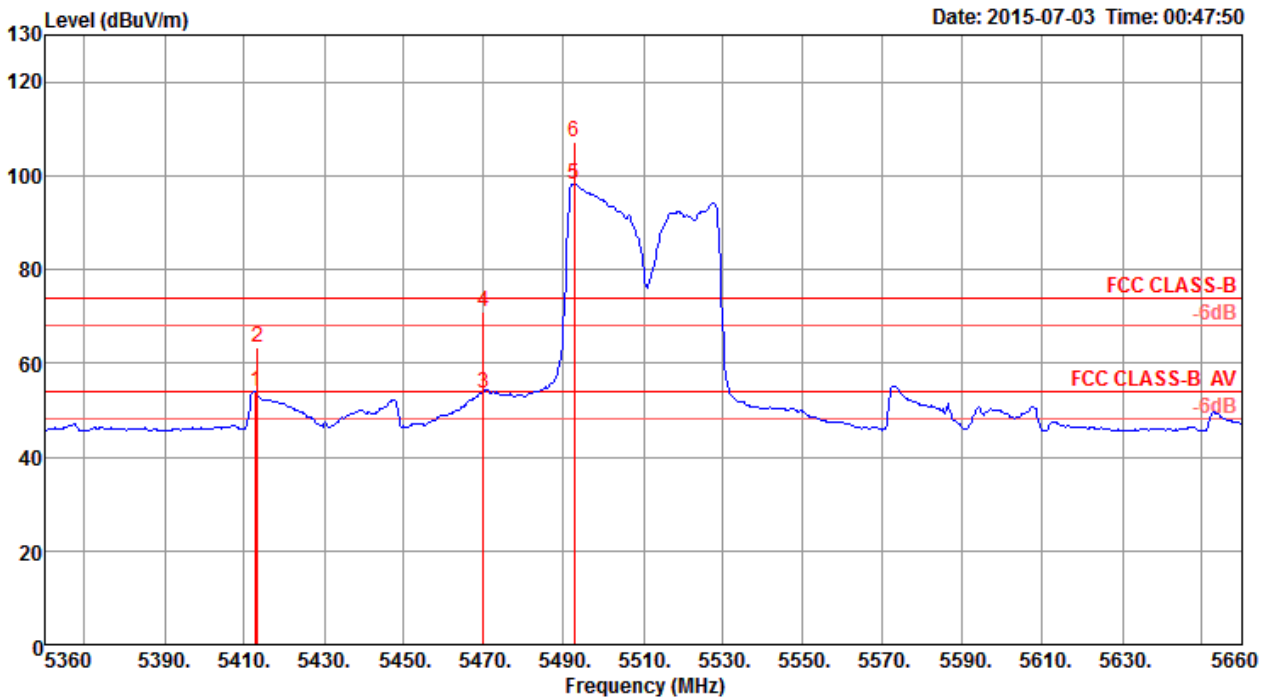
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 62 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5306.40	96.68			91.17	6.23	34.28	35.00	Average	166	296	HORIZONTAL
2	5307.00	105.76			100.25	6.23	34.28	35.00	Peak	166	296	HORIZONTAL
3	5388.60	53.90	54.00	-0.10	48.20	6.28	34.41	34.99	Average	166	296	HORIZONTAL
4	5389.20	64.79	74.00	-9.21	59.09	6.28	34.41	34.99	Peak	166	296	HORIZONTAL

Note 1: Item 1, 2 are the fundamental frequency at 5310 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

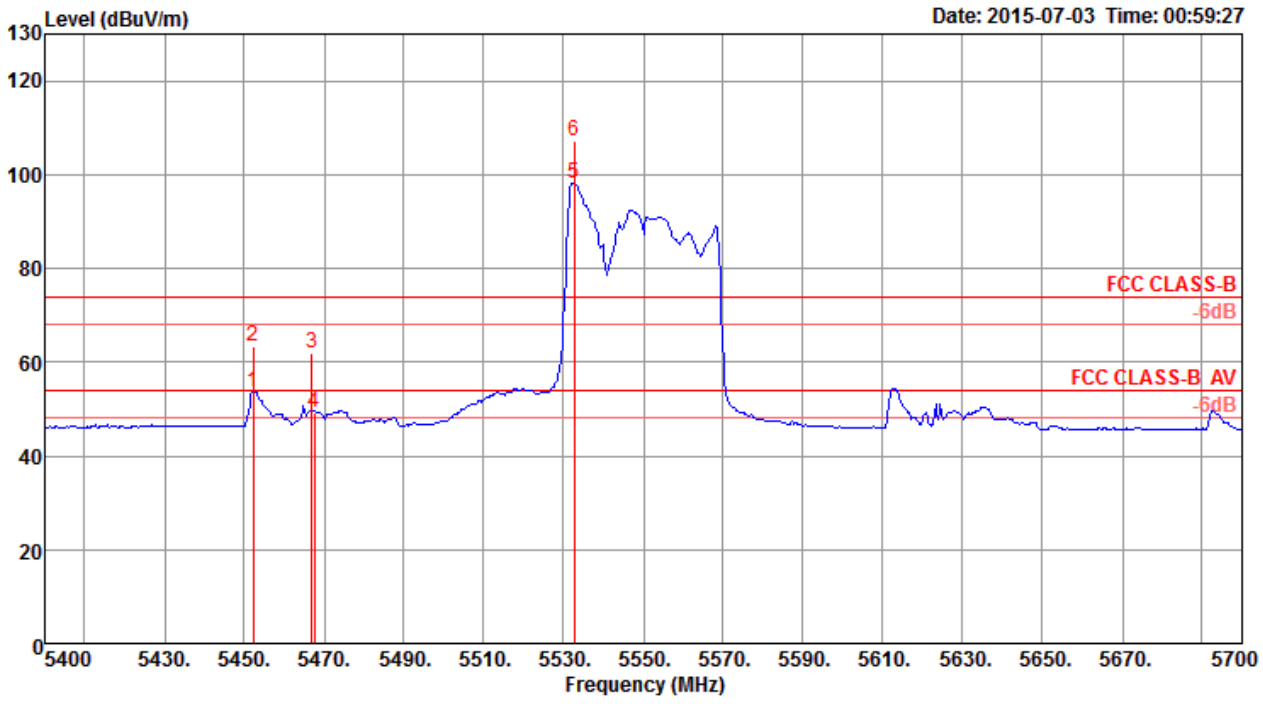
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 102 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5412.80	53.89	54.00	-0.11	48.10	6.31	34.47	34.99 Average	150	293	HORIZONTAL
2	5413.40	63.36	74.00	-10.64	57.57	6.31	34.47	34.99 Peak	150	293	HORIZONTAL
3	5470.00	53.67	54.00	-0.33	47.77	6.34	34.55	34.99 Average	150	293	HORIZONTAL
4	5470.00	70.88	74.00	-3.12	64.98	6.34	34.55	34.99 Peak	150	293	HORIZONTAL
5	5492.60	98.10			92.17	6.35	34.57	34.99 Average	150	293	HORIZONTAL
6	5492.60	107.19			101.26	6.35	34.57	34.99 Peak	150	293	HORIZONTAL

Note 1: Item 5, 6 are the fundamental frequency at 5510 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

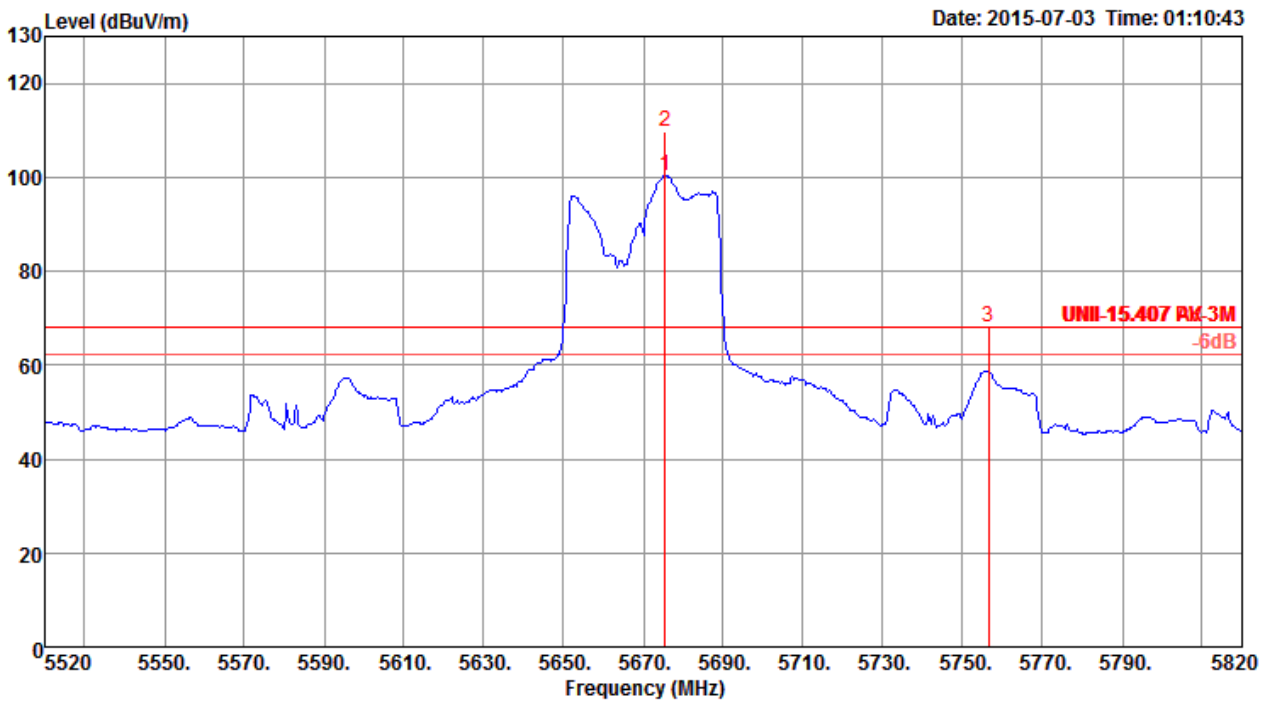
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 110 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5452.20	53.57	54.00	-0.43	47.71	6.33	34.52	34.99 Average	169	241	HORIZONTAL
2	5452.20	63.43	74.00	-10.57	57.57	6.33	34.52	34.99 Peak	169	241	HORIZONTAL
3	5467.00	61.88	74.00	-12.12	55.98	6.34	34.55	34.99 Peak	169	241	HORIZONTAL
4	5467.00	49.39	54.00	-4.61	43.49	6.34	34.55	34.99 Average	169	241	HORIZONTAL
5	5532.60	98.15			92.17	6.37	34.61	35.00 Average	169	241	HORIZONTAL
6	5532.60	107.10			101.12	6.37	34.61	35.00 Peak	169	241	HORIZONTAL

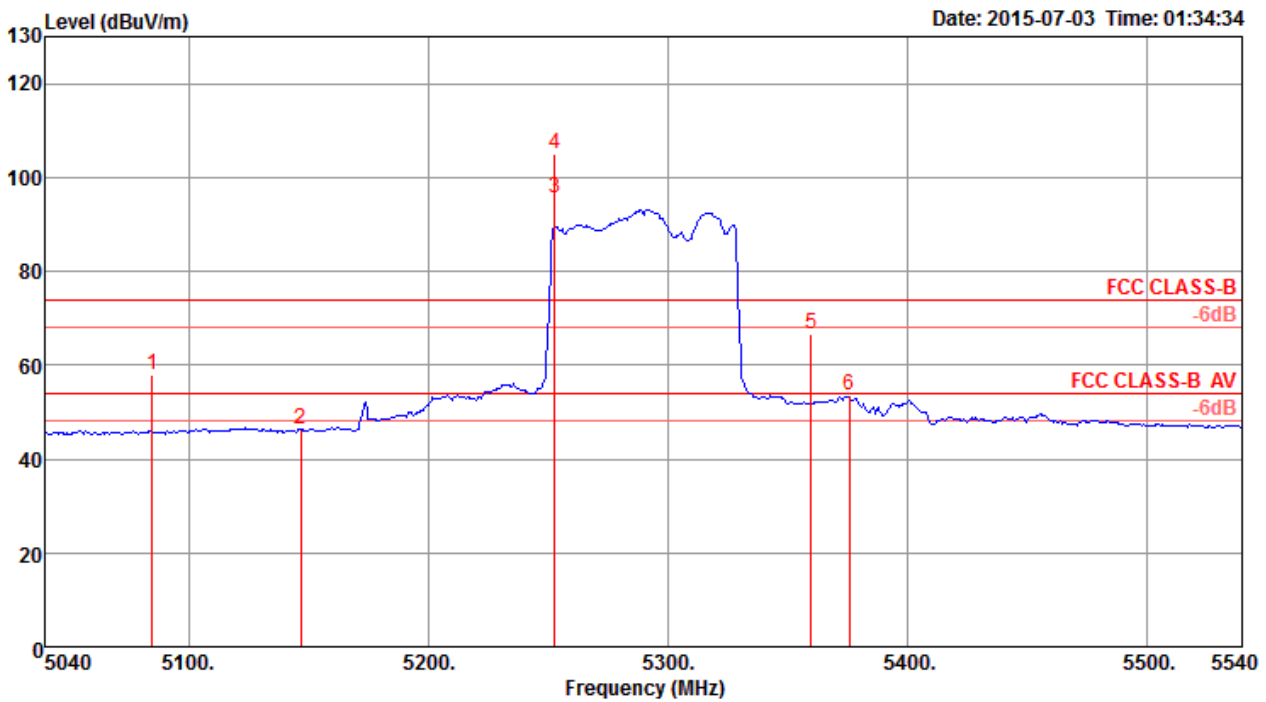
Note 1: Item 5, 6 are the fundamental frequency at 5550 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 40MHz / Nss1MCS0 / CH 134 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	H



Note 1: Item 1, 2 are the fundamental frequency at 5670 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

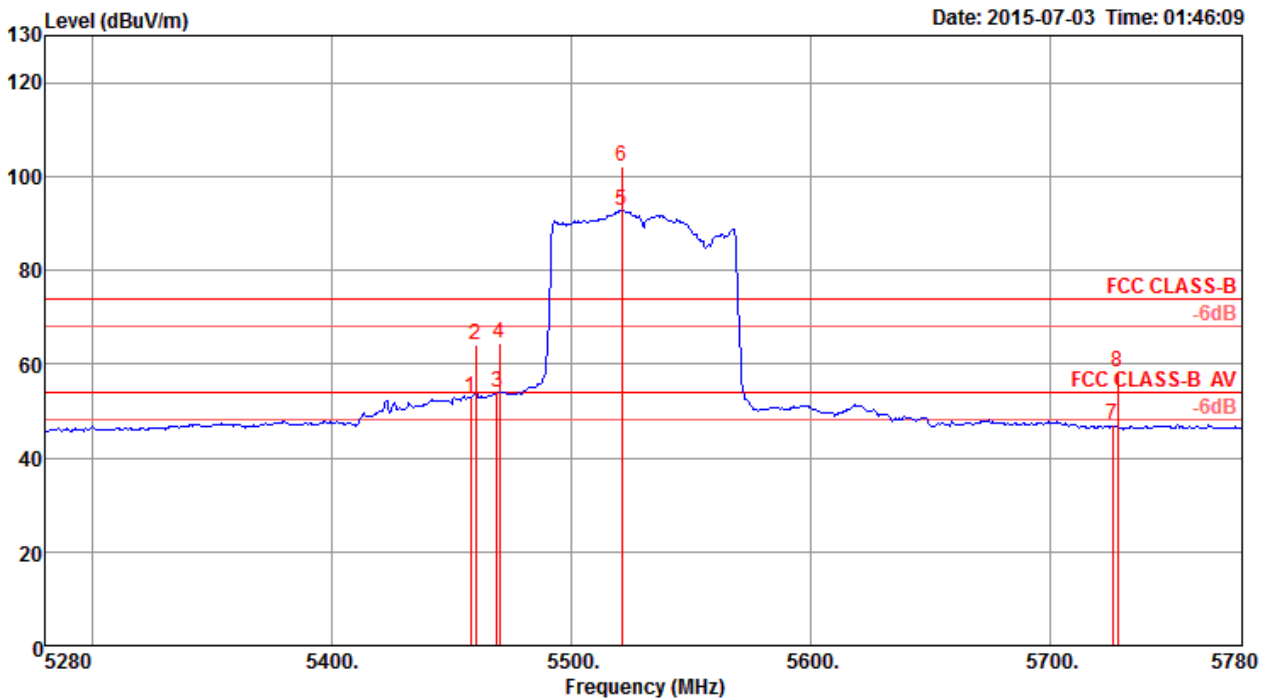
Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 58 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5085.00	57.82	74.00	-16.18	52.81	6.09	33.93	35.01 Peak	156	53	VERTICAL
2	5147.00	46.44	54.00	-7.56	41.27	6.13	34.04	35.00 Average	156	53	VERTICAL
3	5253.00	95.57			90.17	6.20	34.20	35.00 Average	156	53	VERTICAL
4	5253.00	105.02			99.62	6.20	34.20	35.00 Peak	156	53	VERTICAL
5	5360.00	66.70	74.00	-7.30	61.08	6.26	34.36	35.00 Peak	156	53	VERTICAL
6	5376.00	53.54	54.00	-0.46	47.87	6.27	34.39	34.99 Average	156	53	VERTICAL

Note 1: Item 3, 4 are the fundamental frequency at 5290 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Band Edge and Fundamental Emissions			
Operating Mode	IEEE 802.11ac 80MHz / Nss1MCS0 / CH 106 / Ant. 1+2+3 (1S3T, TxBF2)		
Temperature	20°C	Humidity	60%
Test Engineer	Akina Chiu	Polarization	V



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5458.00	52.99	54.00	-1.01	47.13	6.33	34.52	34.99	Average	150	63	VERTICAL
2	5460.00	63.94	74.00	-10.06	58.08	6.33	34.52	34.99	Peak	150	63	VERTICAL
3	5469.00	53.82	54.00	-0.18	47.92	6.34	34.55	34.99	Average	150	63	VERTICAL
4	5470.00	64.57	74.00	-9.43	58.67	6.34	34.55	34.99	Peak	150	63	VERTICAL
5	5521.00	92.67			86.70	6.37	34.60	35.00	Average	150	63	VERTICAL
6	5521.00	102.14			96.17	6.37	34.60	35.00	Peak	150	63	VERTICAL
7	5726.00	46.92	54.00	-7.08	40.86	6.45	34.64	35.03	Average	150	63	VERTICAL
8	5728.00	58.25	74.00	-15.75	52.19	6.45	34.64	35.03	Peak	150	63	VERTICAL

Note 1: Item 5, 6 are the fundamental frequency at 5530 MHz  
 Note 2: Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Note 3: Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.  
 Note 4: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



**3.7 Frequency Stability Measurement**

**3.7.1 Limit**

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user’s manual or  $\pm 20\text{ppm}$  (IEEE 802.11n specification).

**3.7.2 Measuring Instruments and Setting**

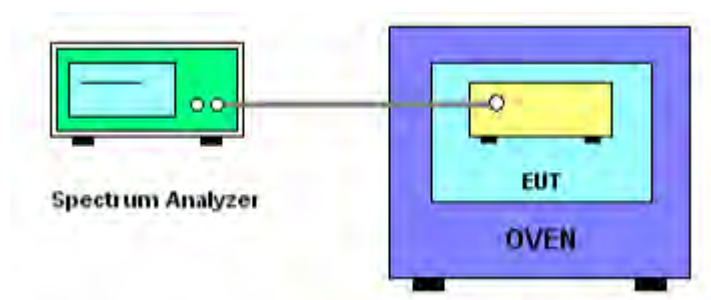
Please refer to section 4 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

**3.7.3 Test Procedures**

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. The EUT was programmed to be in continuously un-modulation transmitting mode.
3. Set the spectrum analyzer span to view the entire un-modulation emissions bandwidth.
4. Turn the EUT on and couple its output to a spectrum analyzer.
5. Turn the EUT off and set the chamber to the highest temperature specified.
6. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
7. Extreme temperature rule is  $-20^{\circ}\text{C}\sim 50^{\circ}\text{C}$ .
8. Repeat step 4 and 5 with the temperature chamber set to the lowest temperature.
9. The test chamber was allowed to stabilize at  $+20$  degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

**3.7.4 Test Setup Layout**



**3.7.5 Test Deviation**

There is no deviation with the original standard.

**3.7.6 EUT Operation during Test**

The EUT was programmed to be in continuously un-modulation transmitting mode.

**3.7.7 Test Result of Frequency Stability**

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Mode</b>	20MHz

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5260			
126.50	5259.9869	5259.9835	5259.9839	5259.9835
110.00	5259.9865	5259.9842	5259.9844	5259.9838
93.50	5259.9865	5259.9840	5259.9842	5259.9834
Max. Deviation (MHz)	0.013500	0.016500	0.016100	0.016600
Max. Deviation (ppm)	2.57	3.14	3.06	3.16

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5260			
-20	5260.0530	5260.0589	5260.0542	5260.0593
-10	5260.0491	5260.0531	5260.0345	5260.0485
0	5260.0347	5260.0349	5260.0296	5260.0336
10	5260.0165	5260.0235	5260.0134	5260.0211
20	5260.0004	5260.0013	5260.0002	5260.0002
30	5259.9887	5259.9871	5259.9883	5259.9873
40	5259.9870	5259.9850	5259.9857	5259.9854
50	5259.9948	5259.9932	5259.9942	5259.9936
Max. Deviation (MHz)	0.052970	0.058900	0.054160	0.059300
Max. Deviation (ppm)	10.07	11.20	10.30	11.27

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5260			
126.50	5259.9869	5259.9861	5259.9846	5259.9844
110.00	5259.9865	5259.9852	5259.9831	5259.9825
93.50	5259.9861	5259.9856	5259.9827	5259.9820
Max. Deviation (MHz)	0.013900	0.014800	0.017300	0.018000
Max. Deviation (ppm)	2.64	2.81	3.29	3.42

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5260			
-20	5260.0517	5260.0557	5260.0525	5260.0541
-10	5260.0495	5260.0499	5260.0479	5260.0493
0	5260.0356	5260.0394	5260.0334	5260.0385
10	5260.0169	5260.0183	5260.0177	5260.0164
20	5260.0004	5260.0003	5260.0004	5260.0060
30	5259.9892	5259.9888	5259.9894	5259.9880
40	5259.9865	5259.9846	5259.9857	5259.9873
50	5259.9961	5259.9971	5259.9974	5259.9966
Max. Deviation (MHz)	0.051660	0.055700	0.052460	0.054100
Max. Deviation (ppm)	9.82	10.59	9.97	10.29

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5260			
126.50	5259.9869	5259.9844	5259.9859	5259.9816
110.00	5259.9865	5259.9838	5259.9841	5259.9801
93.50	5259.9856	5259.9847	5259.9832	5259.9796
Max. Deviation (MHz)	0.014400	0.016200	0.016800	0.020400
Max. Deviation (ppm)	2.74	3.08	3.19	3.88

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5260			
-20	5260.0517	5260.0520	5260.0552	5260.0576
-10	5260.0491	5260.0486	5260.0478	5260.0494
0	5260.0399	5260.0383	5260.0395	5260.0395
10	5260.0174	5260.0183	5260.0176	5260.0178
20	5260.0009	5260.0007	5260.0008	5260.0009
30	5259.9887	5259.9874	5259.9871	5259.9856
40	5259.9865	5259.9865	5259.9845	5259.9824
50	5259.9952	5259.9947	5259.9952	5259.9917
Max. Deviation (MHz)	0.051660	0.052000	0.055200	0.057600
Max. Deviation (ppm)	9.82	9.89	10.49	10.95

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5300			
126.50	5300.0291	5300.0289	5300.0272	5300.0270
110.00	5299.9887	5299.9867	5299.9858	5299.9833
93.50	5300.0382	5300.0345	5300.0256	5300.0397
Max. Deviation (MHz)	0.038210	0.034500	0.027200	0.039700
Max. Deviation (ppm)	7.21	6.51	5.13	7.49

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5300			
-20	5300.0577	5300.0569	5300.0565	5300.0580
-10	5300.0569	5300.0510	5300.0495	5300.0543
0	5300.0543	5300.0463	5300.0399	5300.0515
10	5300.0287	5300.0178	5300.0217	5300.0305
20	5299.9887	5299.9893	5299.9865	5299.9883
30	5299.9965	5299.9964	5299.9957	5299.9971
40	5299.9948	5299.9943	5299.9940	5299.9936
50	5299.9878	5299.9873	5299.9864	5299.9866
Max. Deviation (MHz)	0.057740	0.056870	0.056540	0.057960
Max. Deviation (ppm)	10.89	10.73	10.67	10.94

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5300			
126.50	5300.0291	5300.0280	5300.0278	5300.0271
110.00	5299.9892	5299.9872	5299.9842	5299.9805
93.50	5300.0334	5300.0343	5300.0312	5300.0363
Max. Deviation (MHz)	0.033430	0.034300	0.031200	0.036300
Max. Deviation (ppm)	6.31	6.47	5.89	6.85

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5300			
-20	5300.0617	5300.0653	5300.0624	5300.0646
-10	5300.0569	5300.0583	5300.0573	5300.0574
0	5300.0460	5300.0482	5300.0471	5300.0489
10	5300.0287	5300.0293	5300.0283	5300.0251
20	5299.9892	5299.9883	5299.9887	5299.9895
30	5299.9965	5299.9958	5299.9963	5299.9969
40	5299.9918	5299.9913	5299.9911	5299.9923
50	5299.9887	5299.9869	5299.9883	5299.9882
Max. Deviation (MHz)	0.061650	0.065300	0.062400	0.064600
Max. Deviation (ppm)	11.63	12.32	11.77	12.19

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5300			
126.50	5300.0291	5300.0292	5300.0285	5300.0245
110.00	5299.9896	5299.9883	5299.9868	5299.9847
93.50	5300.0300	5300.0267	5300.0289	5300.0231
Max. Deviation (MHz)	0.029960	0.029170	0.028900	0.024500
Max. Deviation (ppm)	5.65	5.50	5.45	4.62

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5300			
-20	5300.0621	5300.0615	5300.0643	5300.0644
-10	5300.0569	5300.0579	5300.0574	5300.0573
0	5300.0456	5300.0436	5300.0473	5300.0467
10	5300.0287	5300.0293	5300.0284	5300.0283
20	5299.9896	5299.9883	5299.9867	5299.9854
30	5299.9965	5299.9971	5299.9956	5299.9961
40	5299.9900	5299.9893	5299.9900	5299.9894
50	5299.9896	5299.9887	5299.9885	5299.9888
Max. Deviation (MHz)	0.062080	0.061500	0.064300	0.064400
Max. Deviation (ppm)	11.71	11.60	12.13	12.15



**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5320			
126.50	5319.9852	5319.9815	5319.9822	5319.9819
110.00	5319.9874	5319.9826	5319.9839	5319.9827
93.50	5319.9878	5319.9833	5319.9838	5319.9831
Max. Deviation (MHz)	0.014800	0.018500	0.017800	0.018100
Max. Deviation (ppm)	2.78	3.48	3.35	3.40

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5320			
-20	5320.0538	5320.0580	5320.0567	5320.0576
-10	5320.0430	5320.0484	5320.0464	5320.0460
0	5320.0356	5320.0382	5320.0398	5320.0336
10	5320.0195	5320.0152	5320.0235	5320.0176
20	5320.0009	5320.0013	5320.0016	5320.0012
30	5319.9892	5319.9874	5319.9883	5319.9896
40	5319.9865	5319.9829	5319.9862	5319.9854
50	5319.9970	5319.9942	5319.9950	5319.9947
Max. Deviation (MHz)	0.053840	0.058020	0.056700	0.057600
Max. Deviation (ppm)	10.12	10.91	10.66	10.83

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5320			
126.50	5319.9861	5319.9811	5319.9817	5319.9826
110.00	5319.9874	5319.9834	5319.9840	5319.9828
93.50	5319.9878	5319.9840	5319.9845	5319.9833
Max. Deviation (MHz)	0.013900	0.018900	0.018300	0.017400
Max. Deviation (ppm)	2.61	3.55	3.44	3.27

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5320			
-20	5320.0534	5320.0568	5320.0545	5320.0568
-10	5320.0426	5320.0467	5320.0434	5320.0481
0	5320.0347	5320.0368	5320.0385	5320.0357
10	5320.0178	5320.0171	5320.0189	5320.0192
20	5320.0004	5320.0007	5320.0003	5320.0005
30	5319.9896	5319.9883	5319.9888	5319.9888
40	5319.9870	5319.9853	5319.9863	5319.9864
50	5319.9965	5319.9971	5319.9958	5319.9961
Max. Deviation (MHz)	0.053400	0.056800	0.054500	0.056800
Max. Deviation (ppm)	10.04	10.68	10.24	10.68

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5320			
126.50	5319.9865	5319.9798	5319.9804	5319.9834
110.00	5319.9874	5319.9811	5319.9835	5319.9843
93.50	5319.9878	5319.9814	5319.9835	5319.9849
Max. Deviation (MHz)	0.013500	0.020200	0.019600	0.016600
Max. Deviation (ppm)	2.54	3.80	3.68	3.12

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5320			
-20	5320.0543	5320.0541	5320.0539	5320.0544
-10	5320.0434	5320.0433	5320.0431	5320.0434
0	5320.0343	5320.0333	5320.0332	5320.0335
10	5320.0169	5320.0162	5320.0161	5320.0162
20	5320.0009	5320.0003	5320.0002	5320.0005
30	5319.9896	5319.9892	5319.9890	5319.9892
40	5319.9857	5319.9858	5319.9855	5319.9856
50	5319.9922	5319.9919	5319.9918	5319.9919
Max. Deviation (MHz)	0.054270	0.054100	0.053900	0.054400
Max. Deviation (ppm)	10.20	10.17	10.13	10.23

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5500			
126.50	5499.9848	5499.9824	5499.9842	5499.9819
110.00	5499.9874	5499.9861	5499.9865	5499.9852
93.50	5499.9878	5499.9869	5499.9882	5499.9856
Max. Deviation (MHz)	0.015200	0.017600	0.015800	0.018100
Max. Deviation (ppm)	2.76	3.20	2.87	3.29

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5500			
-20	5500.0586	5500.0566	5500.0591	5500.0586
-10	5500.0478	5500.0493	5500.0503	5500.0498
0	5500.0360	5500.0357	5500.0392	5500.0384
10	5500.0178	5500.0183	5500.0198	5500.0192
20	5500.0009	5500.0006	5500.0013	5500.0011
30	5499.9896	5499.9879	5499.9889	5499.9884
40	5499.9848	5499.9832	5499.9863	5499.9867
50	5499.9931	5499.9924	5499.9936	5499.9941
Max. Deviation (MHz)	0.058610	0.056600	0.059100	0.058600
Max. Deviation (ppm)	10.66	10.29	10.75	10.65

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5500			
126.50	5499.9861	5499.9852	5499.9848	5499.9866
110.00	5499.9878	5499.9866	5499.9853	5499.9860
93.50	5499.9878	5499.9868	5499.9861	5499.9871
Max. Deviation (MHz)	0.013900	0.014800	0.015200	0.014000
Max. Deviation (ppm)	2.53	2.69	2.76	2.55

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5500			
-20	5500.0582	5500.0593	5500.0560	5500.0593
-10	5500.0473	5500.0481	5500.0477	5500.0481
0	5500.0360	5500.0365	5500.0352	5500.0383
10	5500.0182	5500.0187	5500.0191	5500.0198
20	5500.0009	5500.0006	5500.0003	5500.0009
30	5499.9892	5499.9894	5499.9873	5499.9889
40	5499.9865	5499.9859	5499.9860	5499.9871
50	5499.9944	5499.9937	5499.9933	5499.9952
Max. Deviation (MHz)	0.058180	0.059300	0.056000	0.059300
Max. Deviation (ppm)	10.58	10.78	10.18	10.78

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5500			
126.50	5499.9865	5499.9836	5499.9825	5499.9845
110.00	5499.9878	5499.9856	5499.9837	5499.9874
93.50	5499.9878	5499.9859	5499.9834	5499.9881
Max. Deviation (MHz)	0.013500	0.016400	0.017500	0.015500
Max. Deviation (ppm)	2.45	2.98	3.18	2.82

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5500			
-20	5500.0577	5500.0576	5500.0579	5500.0576
-10	5500.0473	5500.0472	5500.0471	5500.0474
0	5500.0369	5500.0368	5500.0362	5500.0365
10	5500.0195	5500.0193	5500.0191	5500.0192
20	5500.0009	5500.0003	5500.0002	5500.0004
30	5499.9887	5499.9882	5499.9880	5499.9882
40	5499.9865	5499.9868	5499.9865	5499.9866
50	5499.9948	5499.9949	5499.9948	5499.9949
Max. Deviation (MHz)	0.057740	0.057600	0.057900	0.057600
Max. Deviation (ppm)	10.50	10.47	10.53	10.47

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5580			
126.50	5580.0304	5580.0305	5580.0288	5580.0276
110.00	5579.9896	5579.9825	5579.9874	5579.9802
93.50	5580.0304	5580.0314	5580.0325	5580.0334
Max. Deviation (MHz)	0.030390	0.031400	0.032500	0.033400
Max. Deviation (ppm)	5.45	5.63	5.82	5.99

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5580			
-20	5580.0651	5580.0651	5580.0651	5580.0651
-10	5580.0599	5580.0599	5580.0599	5580.0599
0	5580.0473	5580.0473	5580.0473	5580.0473
10	5580.0304	5580.0304	5580.0304	5580.0304
20	5579.9896	5579.9896	5579.9896	5579.9896
30	5579.9965	5579.9965	5579.9965	5579.9965
40	5579.9883	5579.9883	5579.9883	5579.9883
50	5579.9935	5579.9935	5579.9935	5579.9935
Max. Deviation (MHz)	0.065120	0.065120	0.065120	0.065120
Max. Deviation (ppm)	11.67	11.67	11.67	11.67

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5580			
126.50	5580.0304	5580.0302	5580.0335	5580.0301
110.00	5579.9896	5579.9876	5579.9875	5579.9884
93.50	5580.0304	5580.0311	5580.0316	5580.0305
Max. Deviation (MHz)	0.030390	0.031100	0.033500	0.030500
Max. Deviation (ppm)	5.45	5.57	6.00	5.47

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5580			
-20	5580.0651	5580.0661	5580.0678	5580.0669
-10	5580.0599	5580.0584	5580.0602	5580.0585
0	5580.0473	5580.0447	5580.0475	5580.0493
10	5580.0304	5580.0325	5580.0304	5580.0332
20	5579.9896	5579.9886	5579.9882	5579.9878
30	5579.9965	5579.9968	5579.9969	5579.9933
40	5579.9887	5579.9863	5579.9843	5579.9892
50	5579.9922	5579.9916	5579.9921	5579.9936
Max. Deviation (MHz)	0.065120	0.066100	0.067800	0.066900
Max. Deviation (ppm)	11.67	11.85	12.15	11.99



**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5580			
126.50	5580.0304	5580.0301	5580.0325	5580.0217
110.00	5579.9896	5579.9884	5579.9891	5579.9843
93.50	5580.0308	5580.0311	5580.0327	5580.0319
Max. Deviation (MHz)	0.030820	0.031100	0.032700	0.031900
Max. Deviation (ppm)	5.52	5.57	5.86	5.72

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5580			
-20	5580.0651	5580.0653	5580.0652	5580.0654
-10	5580.0599	5580.0597	5580.0596	5580.0592
0	5580.0478	5580.0476	5580.0474	5580.0473
10	5580.0304	5580.0302	5580.0301	5580.0303
20	5579.9896	5579.9894	5579.9892	5579.9891
30	5579.9965	5579.9962	5579.9960	5579.9965
40	5579.9887	5579.9885	5579.9881	5579.9880
50	5579.9905	5579.9903	5579.9904	5579.9906
Max. Deviation (MHz)	0.065120	0.065300	0.065200	0.065400
Max. Deviation (ppm)	11.67	11.70	11.68	11.72

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5700			
126.50	5699.9874	5699.9855	5699.9814	5699.9808
110.00	5699.9869	5699.9846	5699.9800	5699.9802
93.50	5699.9852	5699.9841	5699.9803	5699.9806
Max. Deviation (MHz)	0.014800	0.015900	0.020000	0.019800
Max. Deviation (ppm)	2.60	2.79	3.51	3.47

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5700			
-20	5700.0595	5700.0598	5700.0601	5700.0598
-10	5700.0512	5700.0556	5700.0553	5700.0552
0	5700.0369	5700.0371	5700.0387	5700.0351
10	5700.0195	5700.0201	5700.0233	5700.0187
20	5700.0013	5700.0008	5700.0024	5700.0017
30	5699.9887	5699.9889	5699.9868	5699.9875
40	5699.9857	5699.9843	5699.9857	5699.9857
50	5699.9965	5699.9967	5699.9978	5699.9963
Max. Deviation (MHz)	0.059480	0.059800	0.060100	0.059800
Max. Deviation (ppm)	10.44	10.49	10.54	10.49

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5700			
126.50	5699.9878	5699.9842	5699.9857	5699.9856
110.00	5699.9869	5699.9830	5699.9871	5699.9822
93.50	5699.9852	5699.9815	5699.9853	5699.9829
Max. Deviation (MHz)	0.014800	0.018500	0.014670	0.017800
Max. Deviation (ppm)	2.60	3.25	2.57	3.12

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5700			
-20	5700.0599	5700.0594	5700.0595	5700.0598
-10	5700.0517	5700.0535	5700.0522	5700.0574
0	5700.0365	5700.0393	5700.0371	5700.0373
10	5700.0182	5700.0147	5700.0192	5700.0169
20	5700.0009	5700.0006	5700.0006	5700.0009
30	5699.9887	5699.9851	5699.9873	5699.9883
40	5699.9857	5699.9843	5699.9858	5699.9877
50	5699.9965	5699.9936	5699.9953	5699.9962
Max. Deviation (MHz)	0.059910	0.059400	0.059500	0.059820
Max. Deviation (ppm)	10.51	10.42	10.44	10.49

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5700			
126.50	5699.9878	5699.9858	5699.9816	5699.9842
110.00	5699.9874	5699.9864	5699.9833	5699.9847
93.50	5699.9861	5699.9869	5699.9836	5699.9863
Max. Deviation (MHz)	0.013900	0.014200	0.018400	0.015800
Max. Deviation (ppm)	2.44	2.49	3.23	2.77

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5700			
-20	5700.0608	5700.0607	5700.0605	5700.0602
-10	5700.0521	5700.0522	5700.0521	5700.0520
0	5700.0365	5700.0364	5700.0362	5700.0361
10	5700.0182	5700.0181	5700.0183	5700.0184
20	5700.0009	5700.0008	5700.0007	5700.0003
30	5699.9892	5699.9894	5699.9893	5699.9891
40	5699.9848	5699.9849	5699.9848	5699.9847
50	5699.9926	5699.9925	5699.9926	5699.9925
Max. Deviation (MHz)	0.060780	0.060700	0.060500	0.060200
Max. Deviation (ppm)	10.66	10.65	10.61	10.56

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Mode</b>	40MHz

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5270			
126.50	5269.9861	5269.9862	5269.9863	5269.9860
110.00	5269.9944	5269.9941	5269.9948	5269.9947
93.50	5269.9865	5269.9864	5269.9863	5269.9862
Max. Deviation (MHz)	0.013890	0.013800	0.013700	0.014000
Max. Deviation (ppm)	2.64	2.62	2.60	2.66

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5270			
-20	5270.0556	5270.0558	5270.0552	5270.0551
-10	5270.0521	5270.0519	5270.0518	5270.0516
0	5270.0347	5270.0348	5270.0349	5270.0351
10	5270.0204	5270.0201	5270.0200	5270.0205
20	5270.0009	5270.0010	5270.0011	5270.0007
30	5269.9892	5269.9893	5269.9864	5269.9896
40	5269.9874	5269.9872	5269.9871	5269.9875
50	5269.9926	5269.9925	5269.9927	5269.9929
Max. Deviation (MHz)	0.055570	0.055800	0.055200	0.055100
Max. Deviation (ppm)	10.54	10.59	10.47	10.46

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5270			
126.50	5269.9857	5269.9851	5269.9849	5269.9852
110.00	5269.9961	5269.9959	5269.9958	5269.9955
93.50	5269.9870	5269.9872	5269.9871	5269.9869
Max. Deviation (MHz)	0.014330	0.014900	0.015100	0.014800
Max. Deviation (ppm)	2.72	2.83	2.87	2.81

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5270			
-20	5270.0551	5270.0549	5270.0550	5270.0553
-10	5270.0504	5270.0502	5270.0503	5270.0504
0	5270.0347	5270.0349	5270.0351	5270.0352
10	5270.0178	5270.0179	5270.0180	5270.0176
20	5270.0004	5270.0003	5270.0001	5270.0000
30	5269.9896	5269.9895	5269.9894	5269.9893
40	5269.9870	5269.9869	5269.9867	5269.9865
50	5269.9948	5269.9949	5269.9950	5269.9953
Max. Deviation (MHz)	0.055140	0.054900	0.055000	0.055300
Max. Deviation (ppm)	10.46	10.42	10.44	10.49

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5270			
126.50	5269.9857	5269.9855	5269.9851	5269.9849
110.00	5269.9965	5269.9962	5269.9961	5269.9960
93.50	5269.9878	5269.9874	5269.9873	5269.9871
Max. Deviation (MHz)	0.014330	0.014500	0.014900	0.015100
Max. Deviation (ppm)	2.72	2.75	2.83	2.87

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5270			
-20	5270.0551	5270.0552	5270.0553	5270.0555
-10	5270.0499	5270.0500	5270.0501	5270.0502
0	5270.0356	5270.0358	5270.0360	5270.0362
10	5270.0169	5270.0171	5270.0172	5270.0178
20	5270.0022	5270.0019	5270.0018	5270.0017
30	5269.9896	5269.9895	5269.9893	5269.9891
40	5269.9865	5269.9863	5269.9861	5269.9859
50	5269.9965	5269.9966	5269.9968	5269.9971
Max. Deviation (MHz)	0.055140	0.055200	0.055300	0.055500
Max. Deviation (ppm)	10.46	10.47	10.49	10.53

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5310			
126.50	5310.0291	5310.0289	5310.0290	5310.0292
110.00	5309.9905	5309.9906	5309.9907	5309.9902
93.50	5310.0291	5310.0292	5310.0295	5310.0298
Max. Deviation (MHz)	0.029090	0.029200	0.029500	0.029800
Max. Deviation (ppm)	5.48	5.50	5.56	5.61

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5310			
-20	5310.0617	5310.0618	5310.0619	5310.0617
-10	5310.0573	5310.0572	5310.0571	5310.0569
0	5310.0447	5310.0445	5310.0442	5310.0440
10	5310.0291	5310.0289	5310.0288	5310.0287
20	5309.9905	5309.9906	5309.9908	5309.9910
30	5309.9970	5309.9971	5309.9973	5309.9972
40	5309.9887	5309.9885	5309.9887	5309.9888
50	5309.9870	5309.9869	5309.9868	5309.9871
Max. Deviation (MHz)	0.061650	0.061800	0.061900	0.061700
Max. Deviation (ppm)	11.61	11.64	11.66	11.62



**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5310			
126.50	5310.0291	5310.0292	5310.0294	5310.0295
110.00	5309.9905	5309.9906	5309.9911	5309.9909
93.50	5310.0291	5310.0288	5310.0285	5310.0283
Max. Deviation (MHz)	0.029090	0.029200	0.029400	0.029500
Max. Deviation (ppm)	5.48	5.50	5.54	5.56

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5310			
-20	5310.0617	5310.0618	5310.0616	5310.0615
-10	5310.0569	5310.0567	5310.0566	5310.0565
0	5310.0452	5310.0451	5310.0454	5310.0458
10	5310.0291	5310.0293	5310.0291	5310.0293
20	5309.9905	5309.9906	5309.9907	5309.9908
30	5309.9965	5309.9963	5309.9962	5309.9960
40	5309.9887	5309.9886	5309.9881	5309.9883
50	5309.9870	5309.9869	5309.9865	5309.9861
Max. Deviation (MHz)	0.061650	0.061800	0.061600	0.061500
Max. Deviation (ppm)	11.61	11.64	11.60	11.58

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5310			
126.50	5310.0291	5310.0290	5310.0289	5310.0287
110.00	5309.9905	5309.9904	5309.9906	5309.9908
93.50	5310.0291	5310.0292	5310.0295	5310.0294
Max. Deviation (MHz)	0.029090	0.029200	0.029500	0.029400
Max. Deviation (ppm)	5.48	5.50	5.56	5.54

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5310			
-20	5310.0621	5310.0622	5310.0623	5310.0625
-10	5310.0569	5310.0571	5310.0573	5310.0574
0	5310.0452	5310.0455	5310.0457	5310.0458
10	5310.0291	5310.0293	5310.0295	5310.0296
20	5309.9905	5309.9906	5309.9907	5309.9908
30	5309.9970	5309.9969	5309.9967	5309.9965
40	5309.9887	5309.9885	5309.9881	5309.9880
50	5309.9870	5309.9869	5309.9865	5309.9861
Max. Deviation (MHz)	0.062080	0.062200	0.062300	0.062500
Max. Deviation (ppm)	11.69	11.71	11.73	11.77

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5510			
126.50	5509.9857	5509.9856	5509.9855	5509.9859
110.00	5509.9931	5509.9930	5509.9929	5509.9927
93.50	5509.9892	5509.9891	5509.9889	5509.9895
Max. Deviation (MHz)	0.014330	0.014400	0.014500	0.014100
Max. Deviation (ppm)	2.60	2.61	2.63	2.56

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5510			
-20	5510.0577	5510.0571	5510.0570	5510.0569
-10	5510.0512	5510.0511	5510.0509	5510.0508
0	5510.0373	5510.0371	5510.0370	5510.0368
10	5510.0174	5510.0172	5510.0170	5510.0171
20	5510.0026	5510.0024	5510.0022	5510.0023
30	5509.9887	5509.9886	5509.9881	5509.9880
40	5509.9865	5509.9862	5509.9863	5509.9867
50	5509.9957	5509.9958	5509.9960	5509.9961
Max. Deviation (MHz)	0.057740	0.057100	0.057000	0.056900
Max. Deviation (ppm)	10.48	10.36	10.34	10.33

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5510			
126.50	5509.9857	5509.9856	5509.9855	5509.9853
110.00	5509.9948	5509.9945	5509.9943	5509.9941
93.50	5509.9883	5509.9881	5509.9889	5509.9888
Max. Deviation (MHz)	0.014330	0.014400	0.014500	0.014700
Max. Deviation (ppm)	2.60	2.61	2.63	2.67

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5510			
-20	5510.0582	5510.0581	5510.0580	5510.0579
-10	5510.0512	5510.0511	5510.0509	5510.0507
0	5510.0356	5510.0355	5510.0357	5510.0359
10	5510.0169	5510.0167	5510.0165	5510.0166
20	5510.0013	5510.0012	5510.0011	5510.0008
30	5509.9892	5509.9891	5509.9888	5509.9889
40	5509.9865	5509.9864	5509.9863	5509.9861
50	5509.9957	5509.9958	5509.9959	5509.9951
Max. Deviation (MHz)	0.058180	0.058100	0.058000	0.057900
Max. Deviation (ppm)	10.56	10.54	10.53	10.51

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5510			
126.50	5509.9852	5509.9851	5509.9853	5509.9855
110.00	5509.9957	5509.9958	5509.9960	5509.9952
93.50	5509.9874	5509.9871	5509.9876	5509.9879
Max. Deviation (MHz)	0.014760	0.014900	0.014700	0.014500
Max. Deviation (ppm)	2.68	2.70	2.67	2.63

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5510			
-20	5510.0586	5510.0581	5510.0579	5510.0577
-10	5510.0517	5510.0516	5510.0515	5510.0514
0	5510.0356	5510.0358	5510.0360	5510.0362
10	5510.0182	5510.0183	5510.0184	5510.0185
20	5510.0004	5510.0002	5510.0000	5510.0001
30	5509.9887	5509.9886	5509.9885	5509.9884
40	5509.9848	5509.9847	5509.9845	5509.9844
50	5509.9935	5509.9937	5509.9938	5509.9941
Max. Deviation (MHz)	0.058610	0.058100	0.057900	0.057700
Max. Deviation (ppm)	10.64	10.54	10.51	10.47

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5550			
126.50	5550.0304	5550.0302	5550.0300	5550.0301
110.00	5549.9905	5549.9902	5549.9903	5549.9909
93.50	5550.0304	5550.0303	5550.0302	5550.0306
Max. Deviation (MHz)	0.030390	0.030300	0.030200	0.030600
Max. Deviation (ppm)	5.48	5.46	5.44	5.51

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5550			
-20	5550.0647	5550.0648	5550.0650	5550.0647
-10	5550.0595	5550.0591	5550.0589	5550.0587
0	5550.0469	5550.0468	5550.0469	5550.0470
10	5550.0300	5550.0298	5550.0296	5550.0301
20	5549.9905	5549.9902	5549.9901	5549.9889
30	5549.9970	5549.9969	5549.9968	5549.9965
40	5549.9883	5549.9881	5549.9879	5549.9875
50	5549.9905	5549.9907	5549.9908	5549.9911
Max. Deviation (MHz)	0.064690	0.064800	0.065000	0.064700
Max. Deviation (ppm)	11.66	11.68	11.71	11.66

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5550			
126.50	5550.0304	5550.0301	5550.0300	5550.0305
110.00	5549.9905	5549.9902	5549.9901	5549.9900
93.50	5550.0304	5550.0302	5550.0301	5550.0299
Max. Deviation (MHz)	0.030390	0.030200	0.030100	0.030500
Max. Deviation (ppm)	5.48	5.44	5.42	5.50

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5550			
-20	5550.0647	5550.0647	5550.0648	5550.0649
-10	5550.0595	5550.0593	5550.0592	5550.0590
0	5550.0469	5550.0468	5550.0467	5550.0468
10	5550.0300	5550.0305	5550.0307	5550.0306
20	5549.9905	5549.9907	5549.9909	5549.9910
30	5549.9965	5549.9967	5549.9968	5549.9970
40	5549.9883	5549.9881	5549.9882	5549.9883
50	5549.9905	5549.9904	5549.9902	5549.9901
Max. Deviation (MHz)	0.064690	0.064700	0.064800	0.064900
Max. Deviation (ppm)	11.66	11.66	11.68	11.69

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5550			
126.50	5550.0304	5550.0302	5550.0301	5550.0299
110.00	5549.9905	5549.9901	5549.9902	5549.9908
93.50	5550.0304	5550.0301	5550.0302	5550.0301
Max. Deviation (MHz)	0.030390	0.030200	0.030200	0.030100
Max. Deviation (ppm)	5.48	5.44	5.44	5.42

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5550			
-20	5550.0643	5550.0641	5550.0645	5550.0648
-10	5550.0599	5550.0591	5550.0595	5550.0592
0	5550.0469	5550.0467	5550.0462	5550.0463
10	5550.0300	5550.0308	5550.0305	5550.0301
20	5549.9905	5549.9901	5549.9903	5549.9902
30	5549.9965	5549.9963	5549.9961	5549.9959
40	5549.9883	5549.9881	5549.9879	5549.9878
50	5549.9870	5549.9869	5549.9865	5549.9863
Max. Deviation (MHz)	0.064250	0.064100	0.064500	0.064800
Max. Deviation (ppm)	11.58	11.55	11.62	11.68



**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5670			
126.50	5669.9878	5669.9871	5669.9875	5669.9872
110.00	5669.9918	5669.9915	5669.9913	5669.9912
93.50	5669.9857	5669.9856	5669.9852	5669.9851
Max. Deviation (MHz)	0.014330	0.014400	0.014800	0.014900
Max. Deviation (ppm)	2.53	2.54	2.61	2.63

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5670			
-20	5670.0599	5670.0597	5670.0595	5670.0601
-10	5670.0543	5670.0541	5670.0539	5670.0540
0	5670.0369	5670.0370	5670.0371	5670.0374
10	5670.0178	5670.0180	5670.0181	5670.0182
20	5670.0013	5670.0011	5670.0012	5670.0015
30	5669.9892	5669.9891	5669.9890	5669.9889
40	5669.9844	5669.9842	5669.9843	5669.9844
50	5669.9935	5669.9932	5669.9927	5669.9929
Max. Deviation (MHz)	0.059910	0.059700	0.059500	0.060100
Max. Deviation (ppm)	10.57	10.53	10.49	10.60

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5670			
126.50	5669.9870	5669.9869	5669.9867	5669.9868
110.00	5669.9935	5669.9925	5669.9928	5669.9933
93.50	5669.9861	5669.9859	5669.9857	5669.9855
Max. Deviation (MHz)	0.013890	0.014100	0.014300	0.014500
Max. Deviation (ppm)	2.45	2.49	2.52	2.56

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5670			
-20	5670.0595	5670.0597	5670.0599	5670.0602
-10	5670.0538	5670.0539	5670.0540	5670.0542
0	5670.0373	5670.0375	5670.0377	5670.0378
10	5670.0178	5670.0179	5670.0180	5670.0181
20	5670.0022	5670.0021	5670.0022	5670.0024
30	5669.9892	5669.9893	5669.9895	5669.9894
40	5669.9861	5669.9862	5669.9863	5669.9867
50	5669.9961	5669.9959	5669.9958	5669.9987
Max. Deviation (MHz)	0.059480	0.059700	0.059900	0.060200
Max. Deviation (ppm)	10.49	10.53	10.56	10.62

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5670			
126.50	5669.9861	5669.9860	5669.9859	5669.9857
110.00	5669.9944	5669.9942	5669.9940	5669.9939
93.50	5669.9865	5669.9862	5669.9861	5669.9863
Max. Deviation (MHz)	0.013890	0.014000	0.014100	0.014300
Max. Deviation (ppm)	2.45	2.47	2.49	2.52

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5670			
-20	5670.0595	5670.0591	5670.0592	5670.0596
-10	5670.0534	5670.0533	5670.0531	5670.0529
0	5670.0382	5670.0381	5670.0380	5670.0379
10	5670.0174	5670.0176	5670.0178	5670.0179
20	5670.0030	5670.0028	5670.0025	5670.0022
30	5669.9887	5669.9886	5669.9885	5669.9882
40	5669.9861	5669.9859	5669.9857	5669.9855
50	5669.9974	5669.9973	5669.9972	5669.9971
Max. Deviation (MHz)	0.059480	0.059100	0.059200	0.059600
Max. Deviation (ppm)	10.49	10.42	10.44	10.51

<b>Test date</b>	Jul. 17, 2015	<b>Test Site No.</b>	TH01-CB
<b>Temperature</b>	20°C	<b>Humidity</b>	60%
<b>Test Engineer</b>	Clemens Fang	<b>Mode</b>	80MHz

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5290			
126.50	5290.0417	5290.0416	5290.0415	5290.0413
110.00	5289.9913	5289.9911	5289.9909	5289.9907
93.50	5290.0291	5290.0290	5290.0289	5290.0288
Max. Deviation (MHz)	0.041680	0.041600	0.041500	0.041300
Max. Deviation (ppm)	7.88	7.86	7.84	7.81

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5290			
-20	5290.0617	5290.0615	5290.0613	5290.0611
-10	5290.0569	5290.0568	5290.0567	5290.0566
0	5290.0447	5290.0445	5290.0443	5290.0441
10	5290.0291	5290.0289	5290.0288	5290.0285
20	5289.9913	5289.9911	5289.9909	5289.9907
30	5289.9970	5289.9969	5289.9964	5289.9961
40	5289.9887	5289.9881	5289.9886	5289.9885
50	5289.9905	5289.9901	5289.9903	5289.9902
Max. Deviation (MHz)	0.061650	0.061500	0.061300	0.061100
Max. Deviation (ppm)	11.65	11.63	11.59	11.55

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5290			
126.50	5290.0347	5290.0348	5290.0350	5290.0351
110.00	5289.9913	5289.9914	5289.9915	5289.9917
93.50	5290.0291	5290.0296	5290.0295	5290.0299
Max. Deviation (MHz)	0.034730	0.034800	0.035000	0.035100
Max. Deviation (ppm)	6.57	6.58	6.62	6.64

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5290			
-20	5290.0612	5290.0611	5290.0609	5290.0607
-10	5290.0569	5290.0567	5290.0566	5290.0565
0	5290.0447	5290.0446	5290.0444	5290.0441
10	5290.0295	5290.0293	5290.0291	5290.0290
20	5289.9913	5289.9911	5289.9909	5289.9910
30	5289.9974	5289.9971	5289.9969	5289.9967
40	5289.9887	5289.9886	5289.9888	5289.9881
50	5289.9905	5289.9904	5289.9903	5289.9902
Max. Deviation (MHz)	0.061220	0.061100	0.060900	0.060700
Max. Deviation (ppm)	11.57	11.55	11.51	11.47

**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5290			
126.50	5290.0291	5290.0289	5290.0288	5290.0287
110.00	5289.9909	5289.9905	5289.9902	5289.9901
93.50	5290.0291	5290.0289	5290.0288	5290.0290
Max. Deviation (MHz)	0.029090	0.028900	0.028800	0.029000
Max. Deviation (ppm)	5.50	5.46	5.44	5.48

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5290			
-20	5290.0617	5290.0611	5290.0615	5290.0614
-10	5290.0573	5290.0571	5290.0576	5290.0577
0	5290.0447	5290.0446	5290.0445	5290.0441
10	5290.0295	5290.0293	5290.0297	5290.0296
20	5289.9909	5289.9907	5289.9906	5289.9906
30	5289.9974	5289.9973	5289.9971	5289.9969
40	5289.9887	5289.9886	5289.9884	5289.9883
50	5289.9905	5289.9903	5289.9901	5289.9906
Max. Deviation (MHz)	0.061650	0.061100	0.061500	0.061400
Max. Deviation (ppm)	11.65	11.55	11.63	11.61

**Voltage vs. Frequency Stability / Ant. 1**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5530			
126.50	5530.0304	5530.0302	5530.0301	5530.0300
110.00	5529.9905	5529.9906	5529.9907	5529.9908
93.50	5530.0300	5530.0298	5530.0297	5530.0299
Max. Deviation (MHz)	0.030390	0.030200	0.030100	0.030000
Max. Deviation (ppm)	5.50	5.46	5.44	5.42

**Temperature vs. Frequency Stability / Ant. 1**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5530			
-20	5530.0643	5530.0641	5530.0639	5530.0642
-10	5530.0643	5530.0642	5530.0640	5530.0641
0	5530.0469	5530.0470	5530.0471	5530.0472
10	5530.0430	5530.0432	5530.0433	5530.0435
20	5529.9905	5529.9907	5529.9908	5529.9909
30	5530.0043	5530.0041	5530.0039	5530.0037
40	5529.9883	5529.9881	5529.9882	5529.9886
50	5529.9883	5529.9881	5529.9882	5529.9886
Max. Deviation (MHz)	0.064250	0.064200	0.064000	0.064200
Max. Deviation (ppm)	11.62	11.61	11.57	11.61

**Voltage vs. Frequency Stability / Ant. 2**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5530			
126.50	5530.0304	5530.0301	5530.0299	5530.0302
110.00	5529.9909	5529.9904	5529.9902	5529.9901
93.50	5530.0300	5530.0302	5530.0304	5530.0305
Max. Deviation (MHz)	0.030390	0.030200	0.030400	0.030500
Max. Deviation (ppm)	5.50	5.46	5.50	5.52

**Temperature vs. Frequency Stability / Ant. 2**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5530			
-20	5530.0643	5530.0641	5530.0642	5530.0643
-10	5530.0625	5530.0625	5530.0627	5530.0628
0	5530.0465	5530.0461	5530.0463	5530.0465
10	5530.0360	5530.0361	5530.0366	5530.0369
20	5529.9909	5529.9908	5529.9904	5529.9902
30	5530.0004	5530.0001	5530.0002	5530.0001
40	5529.9883	5529.9881	5529.9883	5529.9885
50	5529.9878	5529.9876	5529.9874	5529.9871
Max. Deviation (MHz)	0.064250	0.064100	0.064200	0.064300
Max. Deviation (ppm)	11.62	11.59	11.61	11.63



**Voltage vs. Frequency Stability / Ant. 3**

Voltage	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(V)	5530			
126.50	5530.0304	5530.0301	5530.0300	5530.0297
110.00	5529.9909	5529.9908	5529.9907	5529.9905
93.50	5530.0300	5530.0297	5530.0296	5530.0295
Max. Deviation (MHz)	0.030390	0.030100	0.030000	0.029700
Max. Deviation (ppm)	5.50	5.44	5.42	5.37

**Temperature vs. Frequency Stability / Ant. 3**

Temperature	Measurement Frequency (MHz)			
	0 MINUTE	2 MINUTE	5 MINUTE	10 MINUTE
(°C)	5530			
-20	5530.0643	5530.0641	5530.0639	5530.0640
-10	5530.0617	5530.0618	5530.0619	5530.0622
0	5530.0469	5530.0461	5530.0465	5530.0466
10	5530.0334	5530.0338	5530.0339	5530.0334
20	5529.9909	5529.9904	5529.9902	5529.9904
30	5529.9983	5529.9981	5529.9979	5529.9977
40	5529.9883	5529.9887	5529.9885	5529.9883
50	5529.9887	5529.9886	5529.9884	5529.9882
Max. Deviation (MHz)	0.064250	0.064100	0.063900	0.064000
Max. Deviation (ppm)	11.62	11.59	11.56	11.57

### **3.8 Antenna Requirements**

#### **3.8.1 Limit**

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

#### **3.8.2 Antenna Connector Construction**

Please refer to section 2.3 in this test report; antenna connector complied with the requirements.

**4 LIST OF MEASURING EQUIPMENTS**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 17, 2014	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 17, 2014	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 13, 2015	Conduction (CO02-CB)
COND Cable	Woken	Cable	01	0.15MHz ~ 30MHz	Dec. 01, 2014	Conduction (CO02-CB)
Software	Audix	E3	5.410e	-	N.C.R.	Conduction (CO02-CB)
BILOG ANTENNA	Schaffner	CBL6112D	22021	20MHz ~ 2GHz	May 06, 2015	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 28, 2014	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2014	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Feb. 24, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 25, 2014	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 06, 2014	Radiation (03CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 21, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 12, 2014	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)

RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY54320014	50MHz~18GHz	Mar. 23, 2015	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%