



FCC C2PC Test Report

Equipment : R6100 WiFi Router
Brand Name : NETGEAR
Model No. : R6100
FCC ID : PY312400225
Standard : 47 CFR FCC Part 15.407
Operating Band : 5250 MHz – 5350 MHz
5470 MHz – 5725MHz
FCC Classification : NII
Applicant : NETGEAR, Inc.
Manufacturer : 350 East Plumeria Drive, San Jose, California 95134,
USA

The product sample received on Apr. 19, 2013 and completely tested on Aug. 24, 2013. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Approved and Reviewed by:



Gary Chang / Manager





Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Accessories and Support Equipment	8
1.3	Testing Applied Standards	8
1.4	Testing Location Information	9
1.5	Measurement Uncertainty	9
2	TEST CONFIGURATION OF EUT.....	10
2.1	The Worst Case Modulation Configuration	10
2.2	The Worst Case Power Setting Parameter	10
2.3	The Worst Case Measurement Configuration.....	11
2.4	Test Setup Diagram	12
3	TRANSMITTER TEST RESULT	14
3.1	AC Power-line Conducted Emissions	14
3.2	Emission Bandwidth	17
3.3	RF Output Power.....	21
3.4	Peak Power Spectral Density.....	27
3.5	Peak Excursion.....	32
3.6	Transmitter Radiated Bandedge Emissions	35
3.7	Transmitter Radiated Unwanted Emissions	50
3.8	Frequency Stability.....	125
4	TEST EQUIPMENT AND CALIBRATION DATA	127
	APPENDIX A. TEST PHOTOS	A1-A4



Summary of Test Result

Conformance Test Specifications					
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 0.2986930MHz 42.13 (Margin 18.15dB) - QP 35.02 (Margin 15.26dB) - AV	FCC 15.207	Complied
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 20M:26.61 / 40M:51.25 / 80M: 102.96	Information only	Complied
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Power [dBm] 5250-5350MHz:23.65 5470-5725MHz:23.55	Power [dBm] 24	Complied
3.4	15.407(a)	Peak Power Spectral Density	PPSD [dBm/MHz] 10.94	PPSD [dBm/MHz] 11	Complied
3.5	15.407(a)	Peak Excursion	10.49 dB	13 dB	Complied
3.6	15.407(b)	Transmitter Radiated Bandedge Emissions	Restricted Bands [dBuV/m at 3m]: 5350.39MHz 73.89 (Margin 0.11dB) - AV	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.7	15.407(b)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 375.24MHz 42.91 (Margin 3.09dB) – QP and 43.60MHz 36.91 (Margin 3.09dB) - QP	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.8	15.407(g)	Frequency Stability	4.0132 ppm	Signal shall remain in-band	Complied



1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	RF Output Power (dBm)	Co-location
5250-5350	a	5260-5320	52-64 [4]	2	23.59	Yes
5250-5350	n(HT20)	5260-5320	52-64 [4]	2	23.65	Yes
5250-5350	n(HT40)	5270-5310	54-62 [2]	2	23.55	Yes
5250-5350	ac(VHT20)	5260-5320	52-64 [4]	2	23.65	Yes
5250-5350	ac(VHT40)	5270-5310	54-62 [2]	2	23.51	Yes
5250-5350	ac(VHT80)	5290	58 [1]	2	15.19	Yes

Note 1: RF output power specifies that Maximum Conducted Output Power.
 Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
 Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
 Note 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

RF General Information						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	RF Output Power (dBm)	Co-location
5470-5725	a	5500-5700	100-140 [8]	2	23.54	Yes
5470-5725	n(HT20)	5500-5700	100-140 [8]	2	23.55	Yes
5470-5725	n(HT40)	5510-5670	102-134 [3]	2	23.52	Yes
5470-5725	ac(VHT20)	5500-5700	100-140 [8]	2	23.50	Yes
5470-5725	ac(VHT40)	5510-5670	102-134 [3]	2	23.54	Yes
5470-5725	ac(VHT80)	5530	106 [1]	2	14.38	Yes

Note 1: RF output power specifies that Maximum Conducted Output Power.
 Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
 Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
 Note 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

Note:

This is a C2PC report. The difference between original and C2PC report is adding 5250~5350MHz and 5470~5725 MHz band by software setting.

1.1.2 Antenna Information

Antenna Category	
<input type="checkbox"/>	Equipment placed on the market without antennas
<input checked="" type="checkbox"/>	Integral antenna (antenna permanently attached)
	<input checked="" type="checkbox"/> Temporary RF connector provided
	<input type="checkbox"/> No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.
<input type="checkbox"/>	External antenna (dedicated antennas)
	<input type="checkbox"/> Single power level with corresponding antenna(s).
	<input type="checkbox"/> Multiple power level and corresponding antenna(s).
	<input type="checkbox"/> RF connector provided
	<input type="checkbox"/> Unique antenna connector. (e.g., MMCX, U.FL, IPX, and RP-SMA, RP-N type...)
	<input type="checkbox"/> Standard antenna connector. (e.g., SMA, N, BNC, and TNC type...)

Antenna General Information				
No.	Ant. Cat.	Ant. Type	Connector	Gain (dBi)
1	Integral	Printed	UFL	2.9

1.1.3 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	<input type="checkbox"/> Production ; <input checked="" type="checkbox"/> Pre-Production ; <input type="checkbox"/> Prototype
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:



1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle	
<input type="checkbox"/> Operated normally mode for worst duty cycle	
<input checked="" type="checkbox"/> Operated test mode for worst duty cycle	
Test Signal Duty Cycle (x)	Power Duty Factor [dB] – (10 log 1/x)
<input checked="" type="checkbox"/> 98.96% - IEEE 802.11a	0.05
<input checked="" type="checkbox"/> 98.32% - IEEE 802.11n (HT20)	0.07
<input checked="" type="checkbox"/> 98.83% - IEEE 802.11n (HT40)	0.05
<input checked="" type="checkbox"/> 99.37% - IEEE 802.11ac (VHT20)	0.03
<input checked="" type="checkbox"/> 98.79% - IEEE 802.11ac (VHT40)	0.05
<input checked="" type="checkbox"/> 98.21% - IEEE 802.11ac (VHT80)	0.08

1.1.5 EUT Operational Condition

Supply Voltage	<input checked="" type="checkbox"/> AC mains	<input type="checkbox"/> DC	
Type of DC Source	<input type="checkbox"/> Internal DC supply	<input type="checkbox"/> External DC adapter	<input type="checkbox"/> Host
Test Voltage (Host)	<input checked="" type="checkbox"/> Vnom (110 Vac)	<input checked="" type="checkbox"/> Vmax (126.5 Vac)	<input checked="" type="checkbox"/> Vmin (93.5 Vac)
Test Climatic	<input checked="" type="checkbox"/> Tnom (20°C)	<input checked="" type="checkbox"/> Tmax (55°C)	<input checked="" type="checkbox"/> Tmin (-20°C)

1.2 Accessories and Support Equipment

Accessories					
No.	Equipment	Brand Name	Model Name	P/N	Spec.
1	Adapter 1	NETGEAR	AD817F20	332-10307-02	I/P:100-240Vac, 50~60Hz, 0.56A O/P:12Vdc, 1.5A Power cord: 1.85m non-shielded cable w/o core
2	Adapter 2	NETGEAR	SAL018F1 NA	332-10375-01	I/P:100-120Vac, 47~63Hz, 0.6A O/P:12Vdc, 1.5A Power cord: 1.85m non-shielded cable w/o core
3	Adapter 3	NETGEAR	MU18-D1201 50-A1	332-10268-01	I/P:100-240Vac, 50~60Hz, 0.6A O/P:12Vdc, 1.5A Power cord: 1.85m non-shielded cable w/o core
4	Adapter 4	NETGEAR	AD817F10	332-10301-02	I/P:100-120Vac, 50~60Hz, 0.56A O/P:12Vdc, 1.5A Power cord: 1.85m non-shielded cable w/o core
5	RJ45 Cable	---	---	---	1.5m shielded cable w/o core

Support Equipment				
No.	Equipment	Brand Name	Model Name	Serial No.
1	Notebook	DELL	E5420	DoC
2	Notebook	DELL	E5420	DoC
3	USB Flash	Transcend	JetFlash V85	---

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2009
- ◆ FCC KDB 789033 v01r03
- ◆ FCC KDB 662911 v02
- ◆ FCC KDB 412172 v01



1.4 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.		
		TEL : 886-3-327-3456	FAX : 886-3-327-0973	
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Skys Huang	21°C / 52%	Apr. 19, 2013
Radiated Emission	03CH05-HY	Sam Chang	23-25°C / 62-64%	Aug. 02 ~ 05, 2013
RF Conducted	TH01-HY	Mark Liao	22.7°C / 61.5%	Aug. 24, 2013
Test site registered number [643075] with FCC Test site registered number [4086B-1] with IC				

1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty			
Test Item		Uncertainty	Limit
AC power-line conducted emissions		±2.26 dB	N/A
Emission bandwidth		±1.42 %	N/A
RF output power, conducted		±0.63 dB	N/A
Power density, conducted		±0.81 dB	N/A
Unwanted emissions, conducted	30 – 1000 MHz	±0.51 dB	N/A
	1 – 18 GHz	±0.67 dB	N/A
	18 – 40 GHz	±0.83 dB	N/A
	40 – 200 GHz	N/A	N/A
All emissions, radiated	30 – 1000 MHz	±2.56 dB	N/A
	1 – 18 GHz	±3.59 dB	N/A
	18 – 40 GHz	±3.82 dB	N/A
	40 – 200 GHz	N/A	N/A
Temperature		±0.8 °C	N/A
Humidity		±3 %	N/A
DC and low frequency voltages		±3 %	N/A
Time		±1.42 %	N/A
Duty Cycle		±1.42 %	N/A

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing (5150-5250MHz)			
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS
11a	2	6-54Mbps	6 Mbps
HT20	2	M0-15	M0
HT40	2	M0-15	M0
VHT20	2	M0-9	M0
VHT40	2	M0-9	M0
VHT80	2	M0-9	M0

Note 1: Modulation modes consist of below configuration:
 11a: IEEE 802.11a, HT20/HT40: IEEE 802.11n, VHT20/VHT40/VHT80: IEEE 802.11ac
 Note 2: IEEE Std. 802.11n/ac modulation consists of HT20, HT40, VHT20, VHT40, VHT80 and VHT160.
 Then EUT support HT20, HT40, VHT20, VHT40 and VHT80.

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5250-5350 MHz band)							
Test Software Version	CART, V4.9						
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		5260	5300	5320	5270	5310	5290
11a,6-54Mbps	2	20	20	17.5	-	-	-
HT20,M0-15	2	20	20	17.5	-	-	-
HT20,M0-15	2	-	-	-	20	18.5	-
VHT20,M0-9	2	20	20	17	-	-	-
VHT40,M0-9	2	-	-	-	20	18.5	-
VHT80,M0-9	2	-	-	-	-	-	12.5

The Worst Case Power Setting Parameter (5470-5725 MHz band)								
Test Software Version	CART, V4.9							
Modulation Mode	N _{TX}	Test Frequency (MHz)						
		NCB: 20MHz			NCB: 40MHz			NCB: 80MHz
		5500	5580	5700	5510	5550	5670	5530
11a,6-54Mbps	2	17.5	20	14.5	-	-	-	-
HT20,M0-15	2	17	20	14	-	-	-	-
HT20,M0-15	2	-	-	-	17	20.5	20.5	-
VHT20,M0-9	2	17	20	14	-	-	-	-
VHT40,M0-9	2	-	-	-	17	20.5	20.5	-
VHT80,M0-9	2	-	-	-	-	-	-	11.5

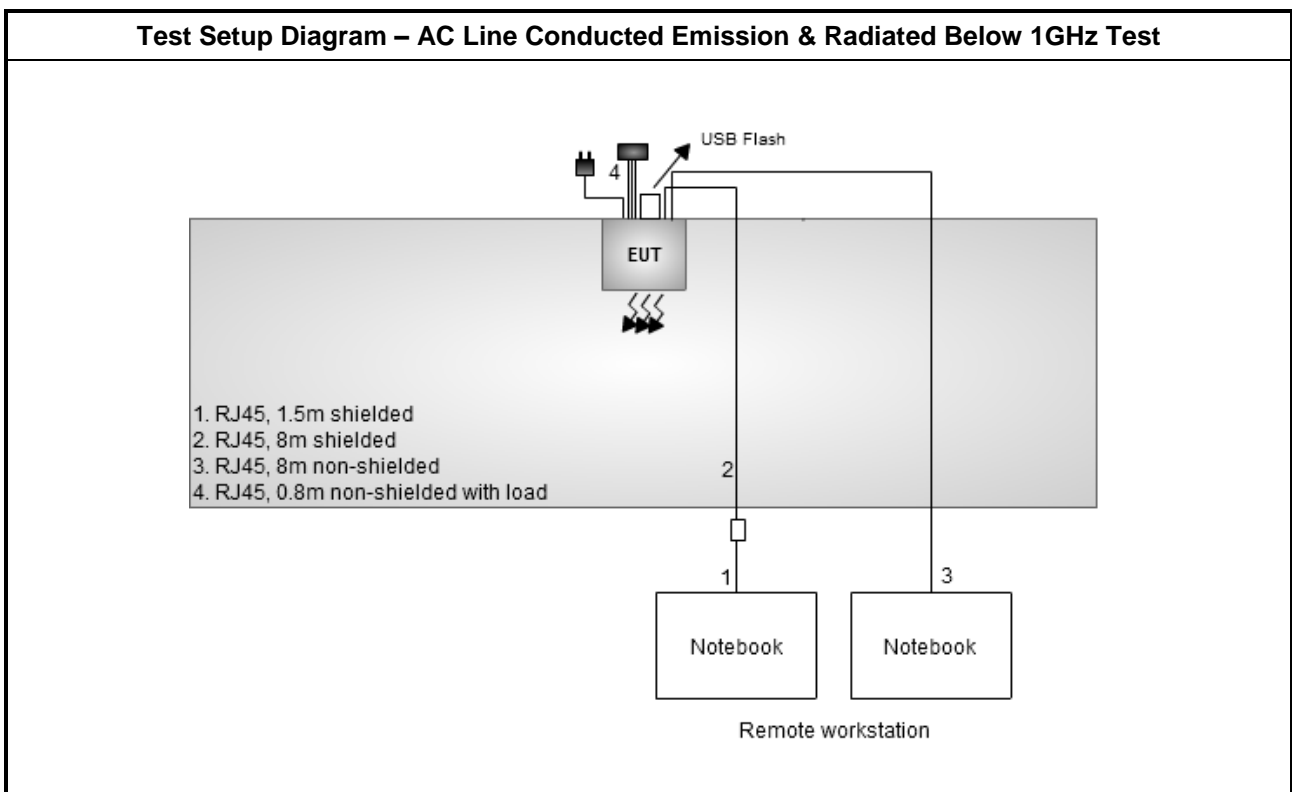
2.3 The Worst Case Measurement Configuration

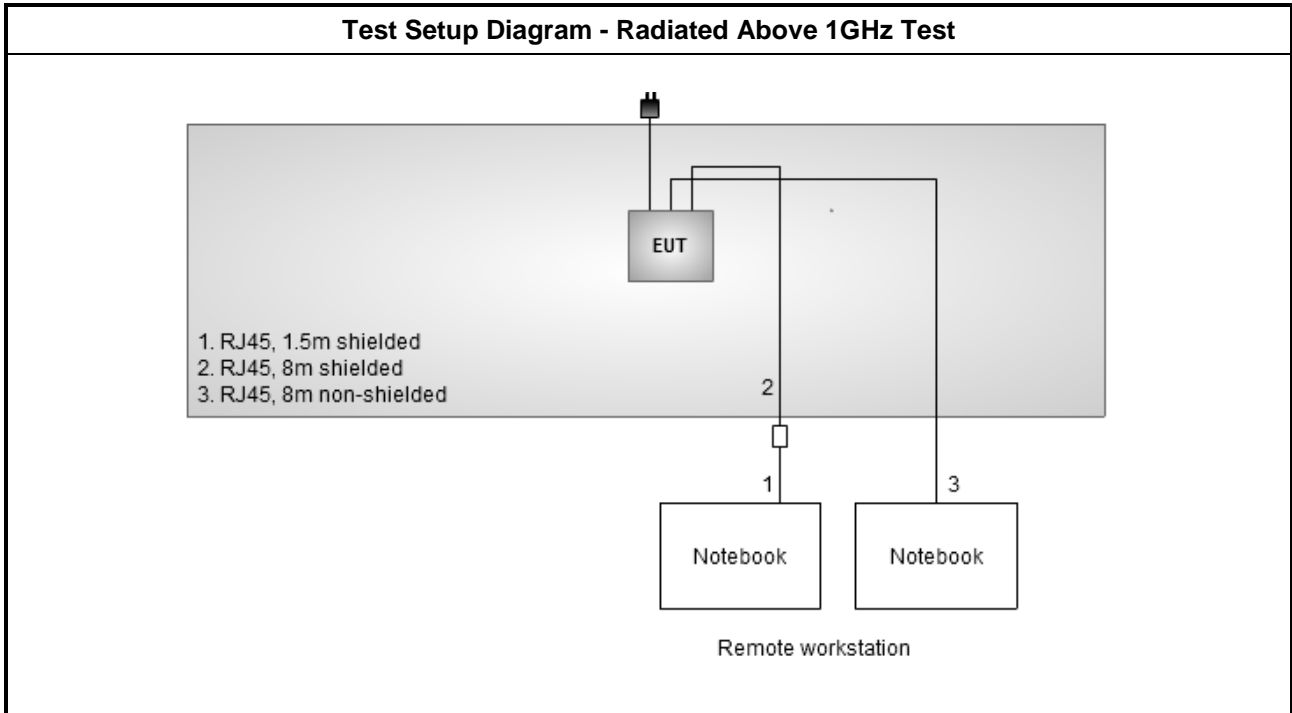
The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	AC Power & Radio link (WLAN), Adapter 2
Note: Adapter 1, adapter 2, adapter 3 and adapter 4 had been pretested and found that the adapter 2 was the worst case and was selected for final test.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	RF Output Power, Peak Power Spectral Density, Emission Bandwidth, Peak Excursion
Test Condition	Conducted measurement at transmit chains
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80
Operating Mode	Operating Mode Description
1	AC Power & Radio link (WLAN), Adapter 2

The Worst Case Mode for Following Conformance Tests	
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
User Position	<input checked="" type="checkbox"/> EUT will be placed in fixed position.
	<input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. The worst planes is X.
	<input type="checkbox"/> EUT will be operating multiple positions. The dipole antenna of EUT was pre-tested on the positioned of each 3 axis. The worst plane is Y.
Operating Mode < 1GHz	<input checked="" type="checkbox"/> AC Power & Radio link (WLAN), Adapter 2
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80
<p>Note: Adapter 1, adapter 2, adapter 3 and adapter 4 had been pretested and found that the adapter 2 was the worst case and was selected for final test.</p>	

2.4 Test Setup Diagram





3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

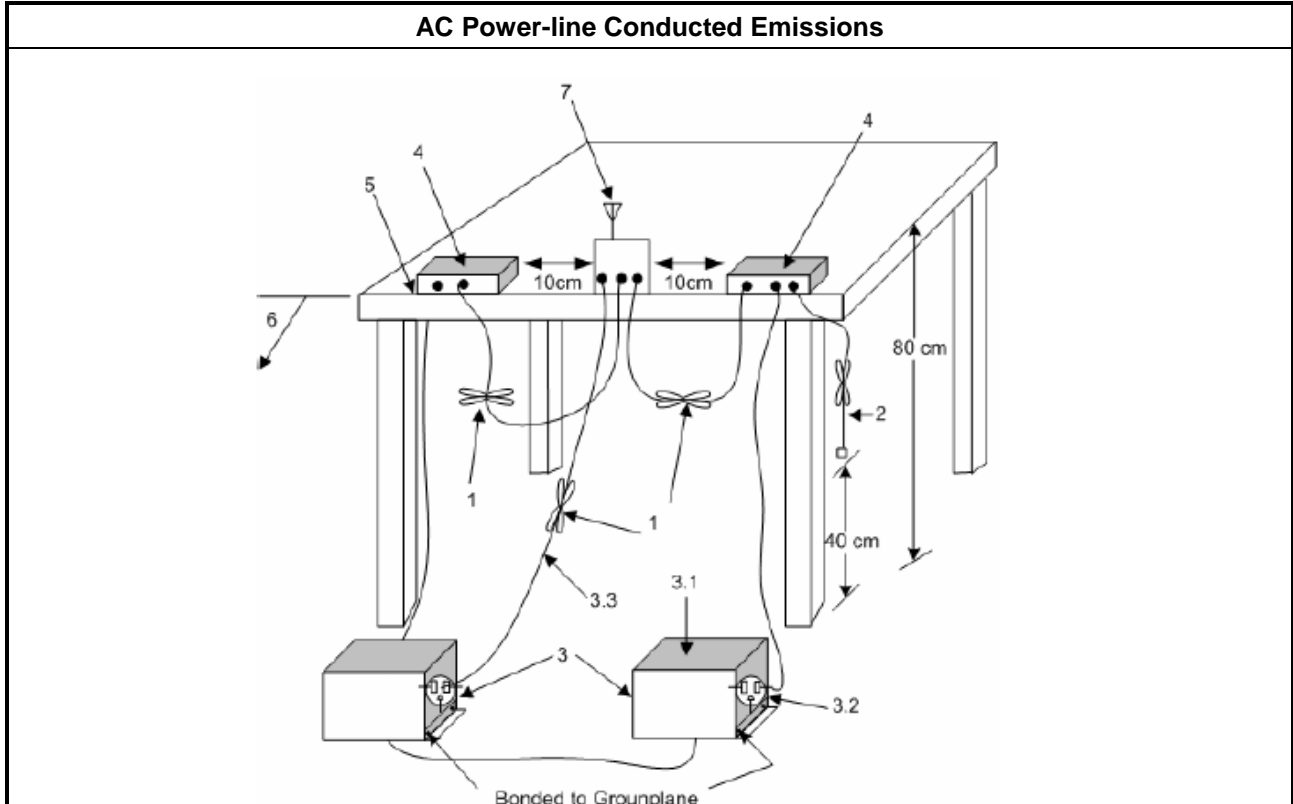
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

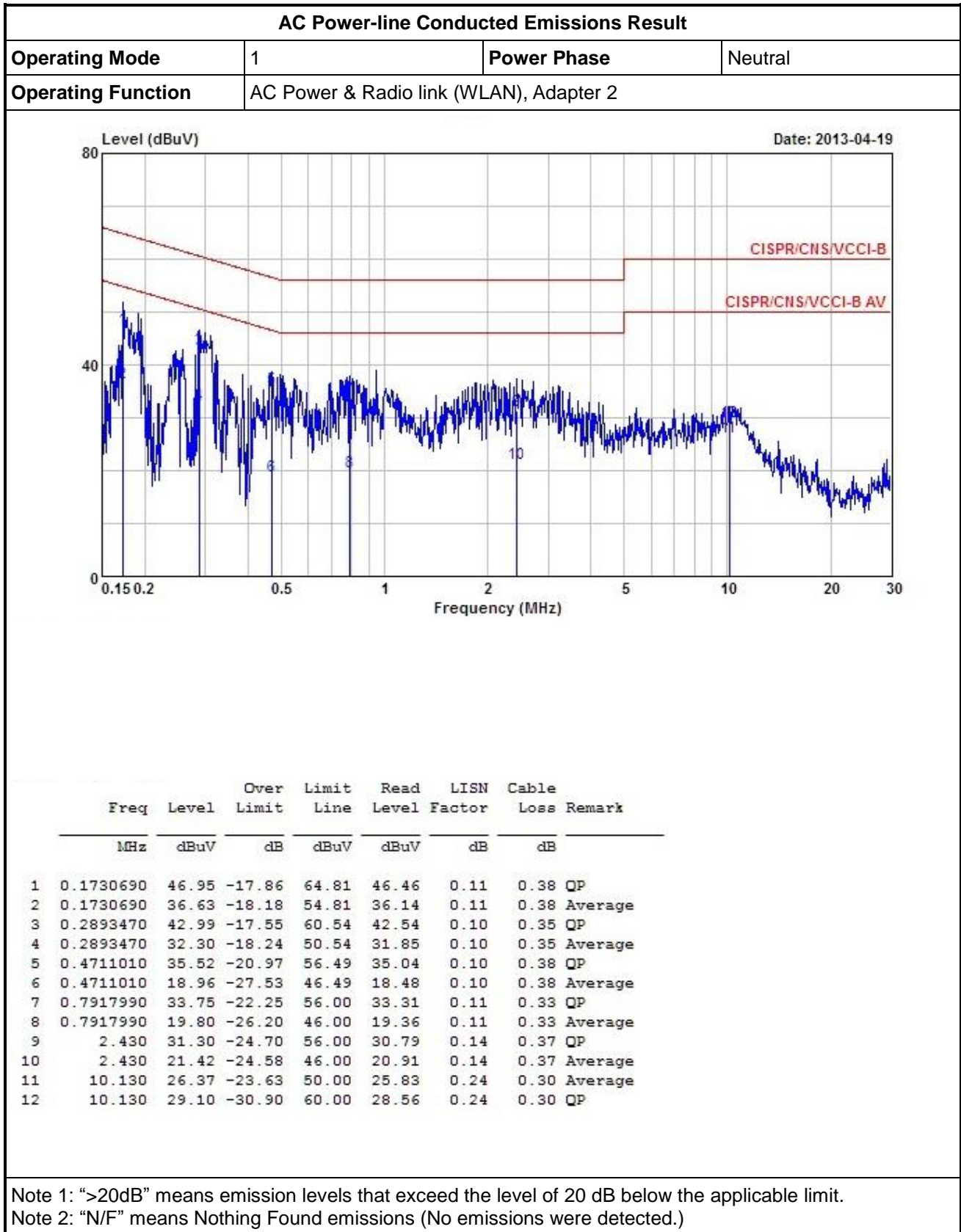
Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup





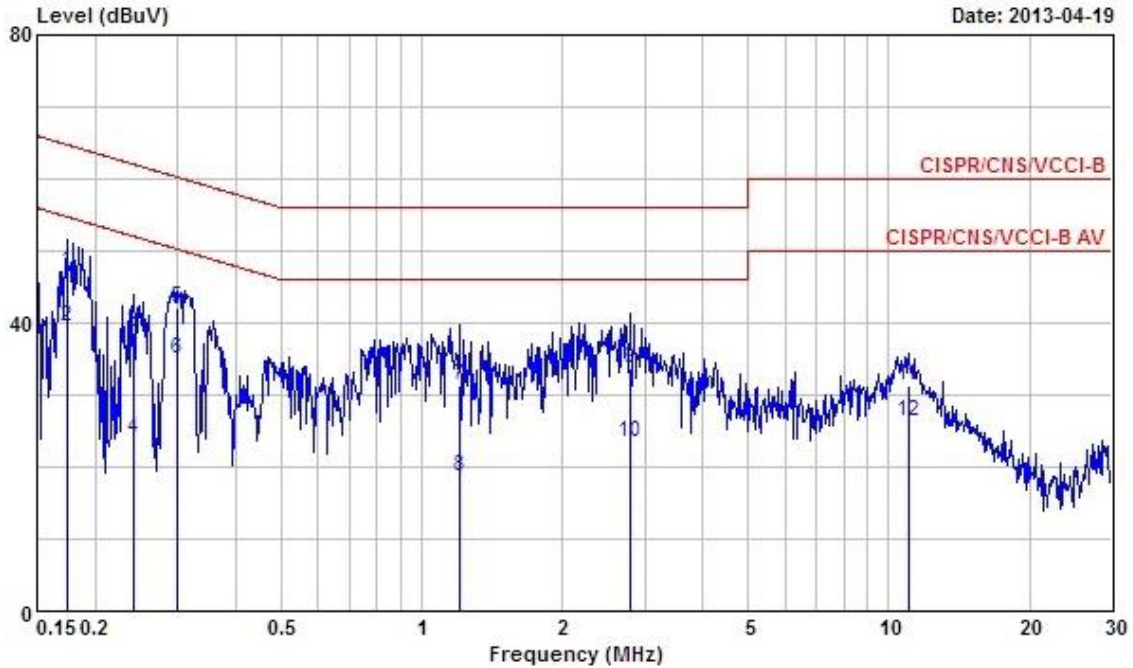
3.1.5 Test Result of AC Power-line Conducted Emissions





AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	AC Power & Radio link (WLAN), Adapter 2		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.1739880	47.21	-17.56	64.77	46.60	0.23	0.38	QP
2	0.1739880	39.39	-15.38	54.77	38.78	0.23	0.38	Average
3	0.2416480	38.68	-23.36	62.04	38.12	0.23	0.33	QP
4	0.2416480	23.99	-28.05	52.04	23.43	0.23	0.33	Average
5	0.2986930	42.13	-18.15	60.28	41.55	0.22	0.36	QP
6	0.2986930	35.02	-15.26	50.28	34.44	0.22	0.36	Average
7	1.210	31.25	-24.75	56.00	30.68	0.24	0.33	QP
8	1.210	18.59	-27.41	46.00	18.02	0.24	0.33	Average
9	2.790	33.67	-22.33	56.00	33.05	0.27	0.35	QP
10	2.790	23.52	-22.48	46.00	22.90	0.27	0.35	Average
11	11.020	31.20	-28.80	60.00	30.44	0.44	0.32	QP
12	11.020	26.40	-23.60	50.00	25.64	0.44	0.32	Average

Note 1: ">20dB" means emission levels that exceeded the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



3.2 Emission Bandwidth

3.2.1 Emission Bandwidth (EBW) Limit

Emission Bandwidth (EBW) Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, the maximum conducted output power shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.725-5.825 GHz band, the maximum conducted output power shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
LE-LAN Devices	
<input type="checkbox"/>	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.725-5.825 GHz band, the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

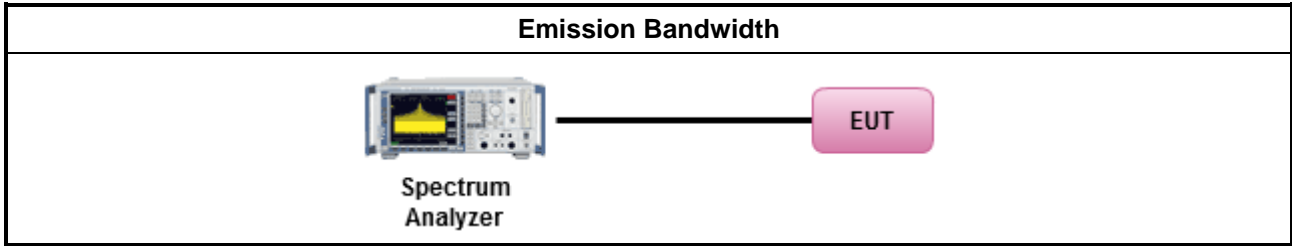
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input checked="" type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	For conducted measurement.
<input type="checkbox"/>	The EUT supports single transmit chain and measurements performed on this transmit chain.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" type="checkbox"/>	The EUT supports multiple transmit chains using options given below:
<input type="checkbox"/>	Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 1.
<input checked="" type="checkbox"/>	Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains.

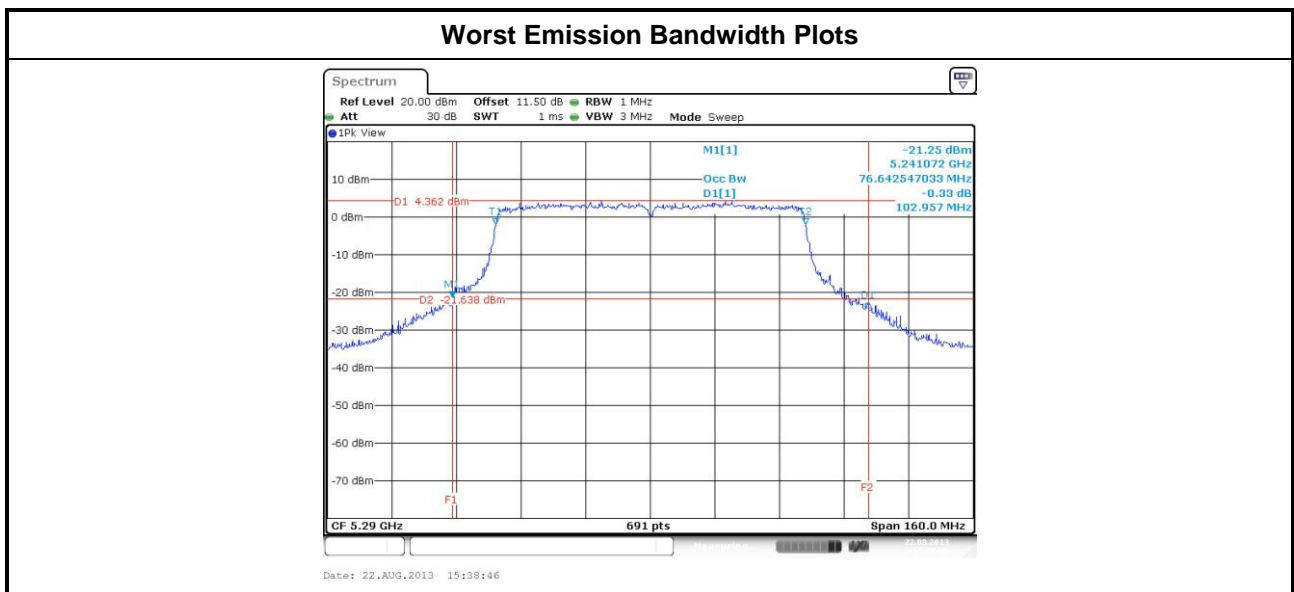
3.2.4 Test Setup





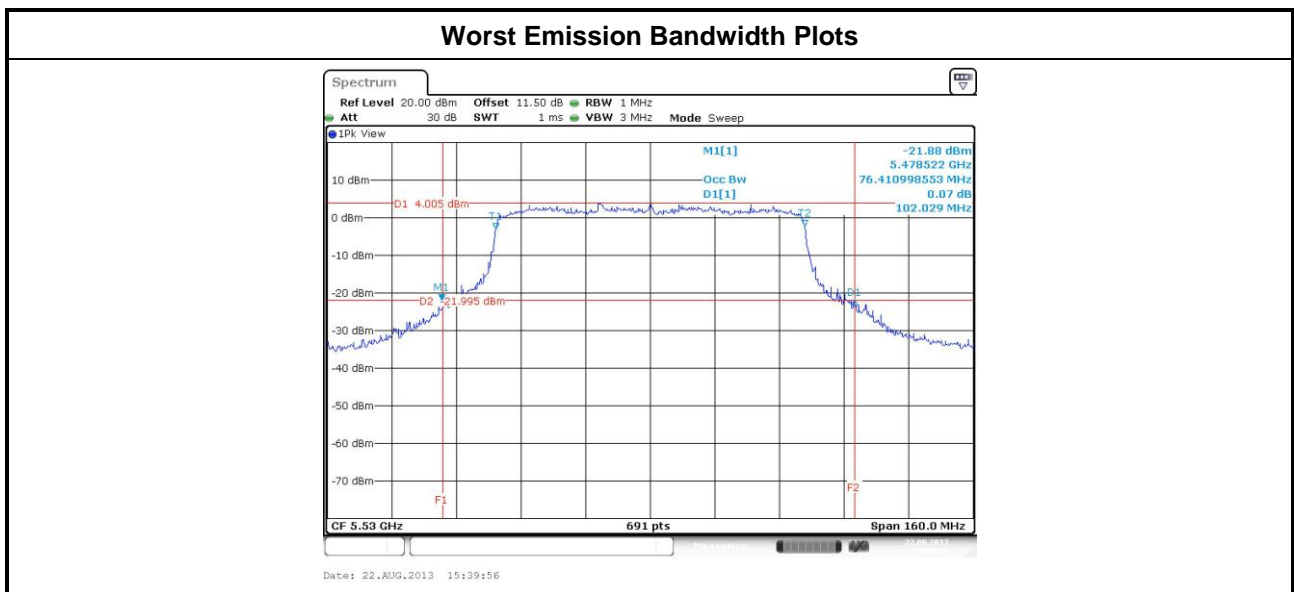
3.2.5 Test Result of Emission Bandwidth

UNII Emission Bandwidth Result (5250-5350MHz band)												
Condition			Emission Bandwidth (MHz)									
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth				26dB Bandwidth				Power Limit	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	99% BW	26dB BW
11a	2	5260	17.13	17.08	-	-	25.91	24.17	-	-	23.32	24.00
11a	2	5300	17.13	17.02	-	-	25.51	24.41	-	-	23.31	24.00
11a	2	5320	17.19	17.08	-	-	25.97	24.06	-	-	23.32	24.00
HT20	2	5260	18.23	18.29	-	-	25.62	25.97	-	-	23.61	24.00
HT20	2	5300	18.18	18.23	-	-	25.80	26.09	-	-	23.60	24.00
HT20	2	5320	18.18	18.18	-	-	25.74	25.97	-	-	23.60	24.00
HT40	2	5270	37.28	37.40	-	-	49.04	49.28	-	-	24.00	24.00
HT40	2	5310	37.40	37.40	-	-	51.25	48.46	-	-	24.00	24.00
VHT20	2	5260	18.23	18.29	-	-	26.32	25.91	-	-	23.61	24.00
VHT20	2	5300	18.18	18.29	-	-	26.20	26.14	-	-	23.60	24.00
VHT20	2	5320	18.29	18.00	-	-	26.43	25.33	-	-	23.55	24.00
VHT40	2	5270	37.16	36.93	-	-	49.28	48.35	-	-	24.00	24.00
VHT40	2	5310	37.28	37.51	-	-	50.09	49.97	-	-	24.00	24.00
VHT80	2	5290	76.64	76.18	-	-	102.96	97.16	-	-	24.00	24.00
Result			Complied									





UNII Emission Bandwidth Result (5470-5725MHz band)												
Condition			Emission Bandwidth (MHz)									
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth				26dB Bandwidth				Power Limit	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	99% BW	26dB BW
11a	2	5500	17.13	17.02	-	-	25.91	24.29	-	-	23.31	24.00
11a	2	5580	17.19	16.96	-	-	25.68	24.58	-	-	23.29	24.00
11a	2	5700	17.08	17.02	-	-	23.35	24.81	-	-	23.31	24.00
HT20	2	5500	18.35	18.18	-	-	26.61	25.74	-	-	23.60	24.00
HT20	2	5580	18.12	18.00	-	-	26.26	25.57	-	-	23.55	24.00
HT20	2	5700	18.18	18.06	-	-	25.80	25.74	-	-	23.57	24.00
HT40	2	5510	37.05	37.28	-	-	49.28	49.74	-	-	24.00	24.00
HT40	2	5550	37.16	37.16	-	-	49.51	48.93	-	-	24.00	24.00
HT40	2	5670	37.40	37.51	-	-	48.70	48.81	-	-	24.00	24.00
VHT20	2	5500	18.00	18.00	-	-	25.68	25.16	-	-	23.55	24.00
VHT20	2	5580	18.06	18.00	-	-	25.86	25.28	-	-	23.55	24.00
VHT20	2	5700	18.18	18.06	-	-	25.28	25.86	-	-	23.57	24.00
VHT40	2	5510	37.63	37.51	-	-	49.74	48.81	-	-	24.00	24.00
VHT40	2	5550	37.16	37.05	-	-	49.28	47.88	-	-	24.00	24.00
VHT40	2	5670	37.16	37.05	-	-	48.93	48.23	-	-	24.00	24.00
VHT80	2	5530	76.18	76.41	-	-	100.17	102.03	-	-	24.00	24.00
Result			Complied									





3.3 RF Output Power

3.3.1 RF Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.725-5.825 GHz band:
<input type="checkbox"/>	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.
<input type="checkbox"/>	Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$.
LE-LAN Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input checked="" type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.725-5.825 GHz band, the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	Point-to-multipoint systems (P2M): the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	Point-to-point systems (P2P): the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. If e.i.r.p. > 36 dBm, $G_{TX} \leq P_{Out}$
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

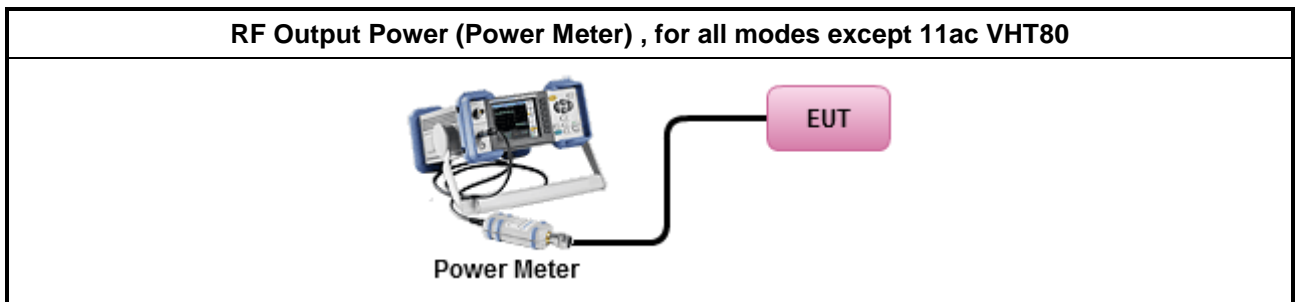
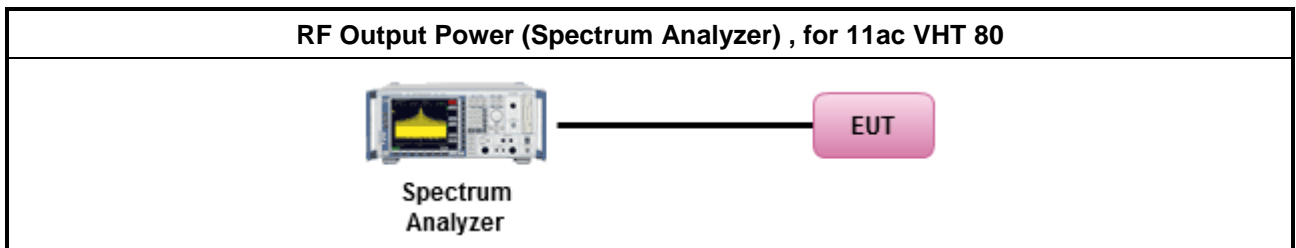
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Maximum Conducted Output Power
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-2 (spectral trace averaging).
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) For 11ac VHT80 mode
	Wideband RF power meter and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method PM-G (using a gated RF average power meter). For all modes except 11ac VHT80
<input checked="" type="checkbox"/>	For conducted measurement.
<input type="checkbox"/>	The EUT supports single transmit chain and measurements performed on this transmit chain.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" type="checkbox"/>	The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
<input checked="" type="checkbox"/>	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Directional Gain for Power Measurement

Directional Gain (DG) Result					
Transmit Chains No.		1	2	-	-
Maximum G _{ANT} (dBi)		2.9	2.9	-	-
Modulation Mode	DG (dBi)	N _{TX}	N _{SS}	STBC	Array Gain (dB)
11a,6-54Mbps	2.9	2	1	-	-
HT20,M0-15	2.9	2	1	-	-
HT40,M0-15	2.9	2	1	-	-
VHT20,M0-9	2.9	2	1	-	-
VHT40,M0-9	2.9	2	1	-	-
VHT80,M0-9	2.9	2	1	-	-

Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = G_{ANT} + 10 log(N_{TX})
All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}

Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = 10 log[(10^{G₁/20} + ... + 10^{G_N/20})² / N_{TX}]
All transmit signals are completely uncorrelated, Directional Gain = 10 log[(10^{G₁/10} + ... + 10^{G_N/10}) / N_{TX}]

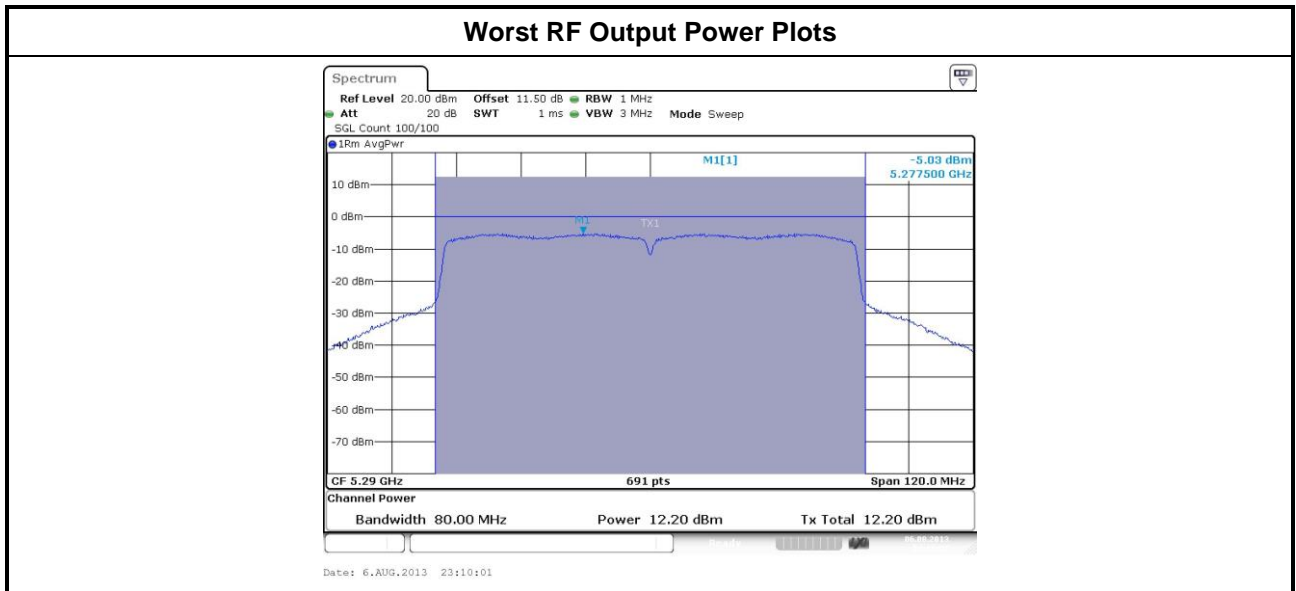
Note 3: For Spatial Multiplexing, Directional Gain (DG) = G_{ANT} + 10 log(N_{TX}/N_{SS}),
where N_{SS} = the number of independent spatial streams data.

Note 4: For CDD transmissions, directional gain is calculated as power measurements:
Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows:
Array Gain = 0 dB (i.e., no array gain) for N_{TX} ≤ 4;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{TX};



3.3.6 Test Result of Maximum Conducted Output Power

Maximum Conducted Output Power Result(dBm)														
Condition			5250-5350 and 5470~5725 MHz band											
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1 w/o Duty Factor (dB)	Chain Port 2 w/o Duty Factor (dB)	Chain Port 3 w/o Duty Factor (dB)	Duty Factor (dB)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
VHT80	2	5290	12.01	12.20	-	0.08	12.09	12.28	-	15.19	24.00	2.90	18.09	30.00
VHT80	2	5530	10.98	11.59	-	0.08	11.06	11.67	-	14.38	24.00	2.90	17.28	30.00
Result			Complied											



Note 1: RF Output Power Plots w/o Duty Factor



Maximum Conducted Output Power (5250-5350MHz band)											
Condition			RF Output Power (dBm)								
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	2	5260	20.48	20.69	-	-	23.59	24.00	2.90	26.49	30.00
11a	2	5300	20.41	20.67	-	-	23.55	24.00	2.90	26.45	30.00
11a	2	5320	17.85	18.63	-	-	21.26	24.00	2.90	24.16	30.00
HT20	2	5260	20.49	20.71	-	-	23.62	24.00	2.90	26.52	30.00
HT20	2	5300	20.52	20.75	-	-	23.65	24.00	2.90	26.55	30.00
HT20	2	5320	17.80	18.32	-	-	21.08	24.00	2.90	23.98	30.00
HT40	2	5270	20.41	20.66	-	-	23.55	24.00	2.90	26.45	30.00
HT40	2	5310	18.24	18.83	-	-	21.56	24.00	2.90	24.46	30.00
VHT20	2	5260	20.42	20.66	-	-	23.55	24.00	2.90	26.45	30.00
VHT20	2	5300	20.57	20.72	-	-	23.65	24.00	2.90	26.55	30.00
VHT20	2	5320	17.62	17.93	-	-	20.79	24.00	2.90	23.69	30.00
VHT40	2	5270	20.36	20.63	-	-	23.51	24.00	2.90	26.41	30.00
VHT40	2	5310	18.60	19.12	-	-	21.88	24.00	2.90	24.78	30.00
Result			Complied								



Maximum Conducted Output Power (5470-5725MHz band)											
Condition			RF Output Power (dBm)								
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	2	5500	17.46	17.72	-	-	20.60	24.00	2.90	23.50	30.00
11a	2	5580	20.43	20.63	-	-	23.54	24.00	2.90	26.44	30.00
11a	2	5700	14.19	14.27	-	-	17.24	24.00	2.90	20.14	30.00
HT20	2	5500	16.82	17.25	-	-	20.05	24.00	2.90	22.95	30.00
HT20	2	5580	20.48	20.59	-	-	23.55	24.00	2.90	26.45	30.00
HT20	2	5700	13.58	13.86	-	-	16.74	24.00	2.90	19.64	30.00
HT40	2	5510	16.62	16.85	-	-	19.75	24.00	2.90	22.65	30.00
HT40	2	5550	20.22	20.70	-	-	23.48	24.00	2.90	26.38	30.00
HT40	2	5670	20.35	20.67	-	-	23.52	24.00	2.90	26.42	30.00
VHT20	2	5500	16.93	17.38	-	-	20.17	24.00	2.90	23.07	30.00
VHT20	2	5580	20.32	20.65	-	-	23.50	24.00	2.90	26.40	30.00
VHT20	2	5700	13.56	13.78	-	-	16.68	24.00	2.90	19.58	30.00
VHT40	2	5510	16.79	17.01	-	-	19.91	24.00	2.90	22.81	30.00
VHT40	2	5550	20.36	20.68	-	-	23.54	24.00	2.90	26.44	30.00
VHT40	2	5670	20.33	20.69	-	-	23.53	24.00	2.90	26.43	30.00
Result			Complied								

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 4 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.725-5.825 GHz band:
<input type="checkbox"/>	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 17 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 17 - (G_{TX} - 6)$.
<input type="checkbox"/>	Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 17 dBm/MHz. If $G_{TX} > 23$ dBi, then $PPSD = 17 - (G_{TX} - 23)$.
LE-LAN Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
<input checked="" type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
<input type="checkbox"/>	For the 5.725-5.825 GHz band, the peak power spectral density (PPSD) ≤ 17 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 23 dBm/MHz.
<p>PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

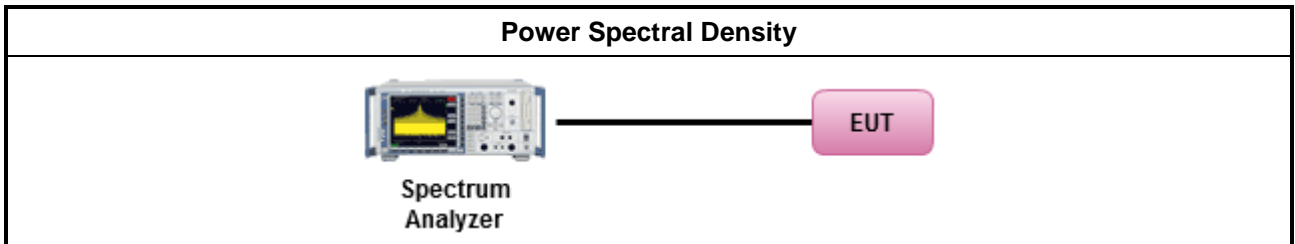
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method					
<input checked="" type="checkbox"/> Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:					
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth				
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-1 (spectral trace averaging). For all modes except 11ac VHT80				
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)				
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-2 (spectral trace averaging).				
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) 11ac VHT80 mode				
<input checked="" type="checkbox"/> For conducted measurement.					
<input type="checkbox"/>	The EUT supports single transmit chain and measurements performed on this transmit chain.				
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.				
<input checked="" type="checkbox"/>	The EUT supports multiple transmit chains using options given below: <table border="1" style="width: 100%; margin-top: 5px;"> <tr> <td><input checked="" type="checkbox"/></td> <td>Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.</td> </tr> </table>	<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	<input type="checkbox"/>	Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.				
<input type="checkbox"/>	Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.				
<input checked="" type="checkbox"/>	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$				
<input checked="" type="checkbox"/>	Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots.				

3.4.4 Test Setup



3.4.5 Directional Gain for Power Spectral Density Measurement

Directional Gain (DG) Result					
Transmit Chains No.		1	2	-	-
Maximum G _{ANT} (dBi)		2.9	2.9	-	-
Modulation Mode	DG (dBi)	N _{TX}	N _{SS}	STBC	Array Gain (dB)
11a,6-54Mbps	5.91	2	1	-	3.01
HT20,M0-15	5.91	2	1	-	3.01
HT40,M0-15	5.91	2	1	-	3.01
VHT20,M0-9	5.91	2	1	-	3.01
VHT40,M0-9	5.91	2	1	-	3.01
VHT80,M0-9	5.91	2	1	-	3.01

Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = G_{ANT} + 10 log(N_{TX})
All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}

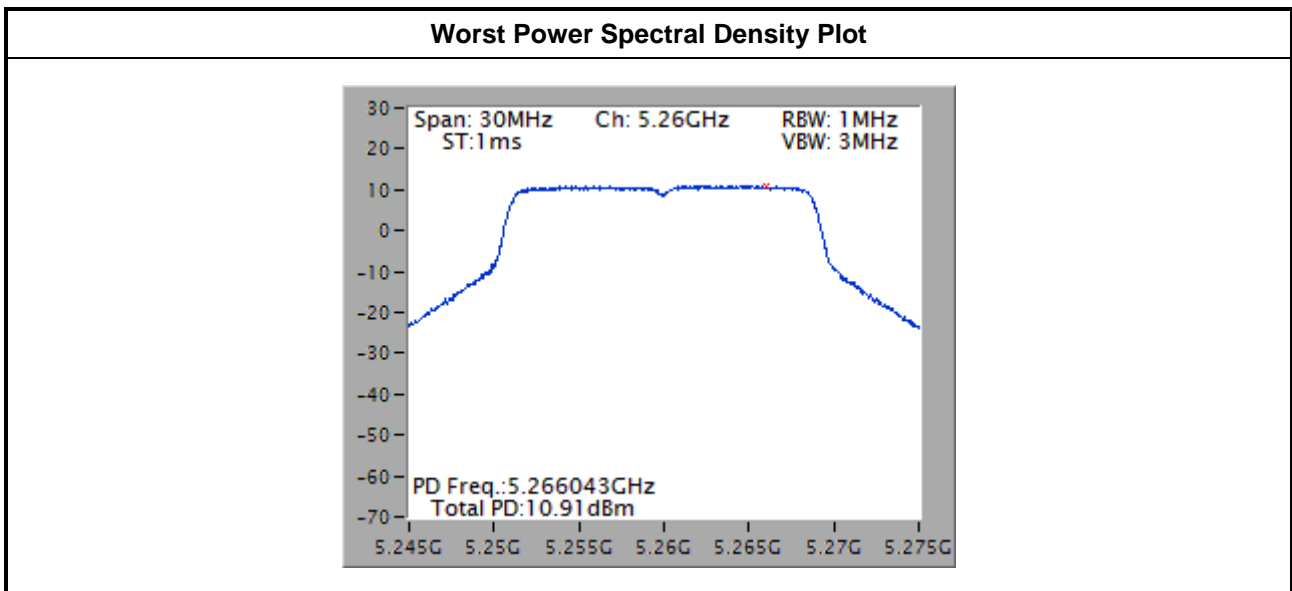
Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = 10 log[(10^{G₁/20} + ... + 10^{G_N/20})² / N_{TX}]
All transmit signals are completely uncorrelated, Directional Gain = 10 log[(10^{G₁/10} + ... + 10^{G_N/10}) / N_{TX}]

Note 3: For Spatial Multiplexing, Directional Gain (DG) = G_{ANT} + 10 log(N_{TX}/N_{SS}),
where N_{SS} = the number of independent spatial streams data.

Note 4: For CDD transmissions, directional gain is calculated as power measurements:
Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows:
Array Gain = 0 dB (i.e., no array gain) for N_{TX} ≤ 4;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{TX};

3.4.6 Test Result of Peak Power Spectral Density

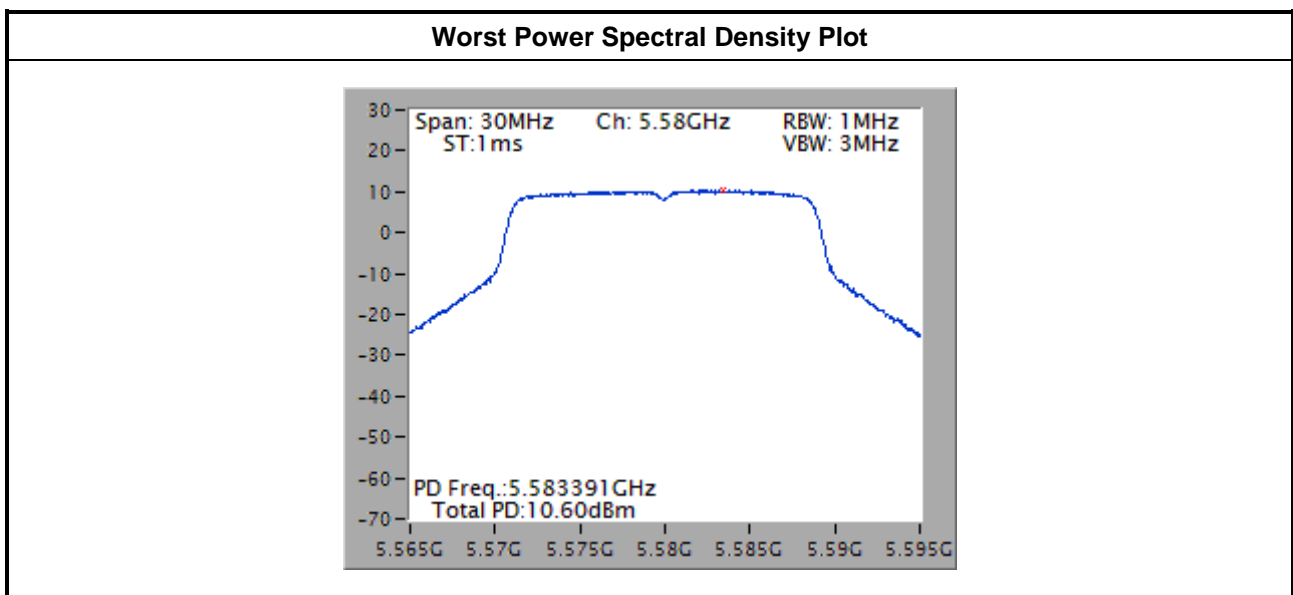
Peak Power Spectral Density Result (5250-5350MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	2	5260	10.85	11.00	5.91	16.76	17
11a	2	5300	10.65	11.00	5.91	16.56	17
11a	2	5320	9.02	11.00	5.91	14.93	17
HT20	2	5260	10.62	11.00	5.91	16.53	17
HT20	2	5300	10.77	11.00	5.91	16.68	17
HT20	2	5320	8.62	11.00	5.91	14.53	17
HT40	2	5270	7.39	11.00	5.91	13.30	17
HT40	2	5310	6.00	11.00	5.91	11.91	17
VHT20	2	5260	10.94	11.00	5.91	16.85	17
VHT20	2	5300	10.82	11.00	5.91	16.73	17
VHT20	2	5320	7.90	11.00	5.91	13.81	17
VHT40	2	5270	7.31	11.00	5.91	13.22	17
VHT40	2	5310	5.93	11.00	5.91	11.84	17
VHT80	2	5290	-4.22	11.00	5.91	1.69	17
Result			Complied				



Note 1: Power Spectral Density plot w/o Duty Factor



Peak Power Spectral Density Result (5470-5725MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	2	5500	8.86	11.00	5.91	14.77	17
11a	2	5580	10.63	11.00	5.91	16.54	17
11a	2	5700	5.08	11.00	5.91	10.99	17
HT20	2	5500	7.86	11.00	5.91	13.77	17
HT20	2	5580	10.59	11.00	5.91	16.50	17
HT20	2	5700	3.92	11.00	5.91	9.83	17
HT40	2	5510	4.42	11.00	5.91	10.33	17
HT40	2	5550	8.02	11.00	5.91	13.93	17
HT40	2	5670	7.55	11.00	5.91	13.46	17
VHT20	2	5500	7.55	11.00	5.91	13.46	17
VHT20	2	5580	10.63	11.00	5.91	16.54	17
VHT20	2	5700	3.98	11.00	5.91	9.89	17
VHT40	2	5510	4.33	11.00	5.91	10.24	17
VHT40	2	5550	8.03	11.00	5.91	13.94	17
VHT40	2	5670	7.53	11.00	5.91	13.44	17
VHT80	2	5530	-5.21	11.00	5.91	0.70	17
Result			Complied				



Note 1: Power Spectral Density plot w/o Duty Factor

3.5 Peak Excursion

3.5.1 Peak Excursion Limit

Peak Excursion Limit	
UNII Devices	
<input checked="" type="checkbox"/>	Peak excursion \leq 13 dB. The ratio of the maximum of the peak-max-hold spectrum to the maximum of the average spectrum for continuous transmission does not exceed 13 dB. (Earlier procedures that required computing the ratio of the two spectra at each frequency across the emission bandwidth can lead to unintended failures at band edges and will no longer be required.)
LE-LAN Devices	
<input checked="" type="checkbox"/>	N/A

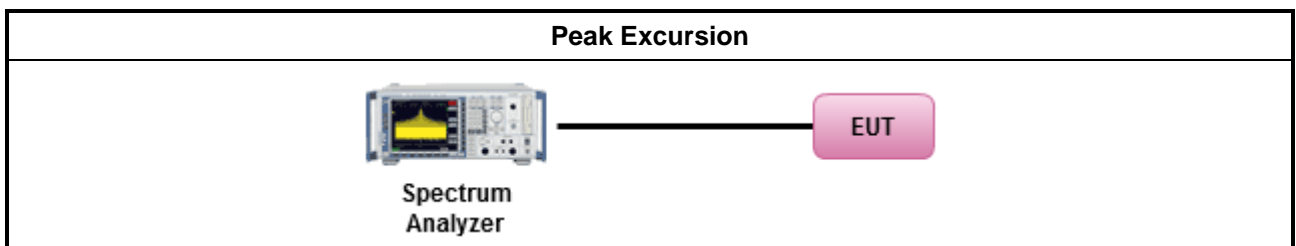
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause G peak excursion method.
<input checked="" type="checkbox"/>	Testing each modulation mode on a single channel is sufficient to demonstrate compliance with the peak excursion requirement
<input checked="" type="checkbox"/>	For conducted measurement.
<input checked="" type="checkbox"/>	Testing a single output port is sufficient to demonstrate compliance with the peak excursion.
<input checked="" type="checkbox"/>	Test result plots refer as test report clause 3.3.5 with peak excursion ratio of the maximum of the peak-max-hold spectrum to the maximum of the average spectrum.

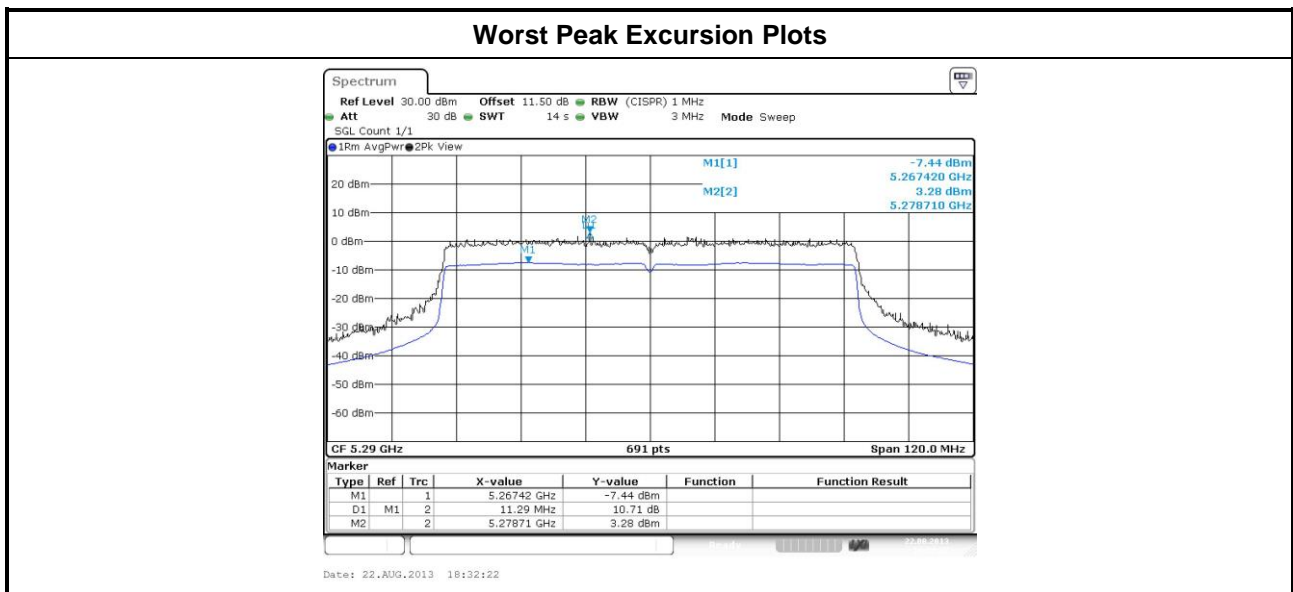
3.5.4 Test Setup





3.5.5 Test Result of Peak Excursion

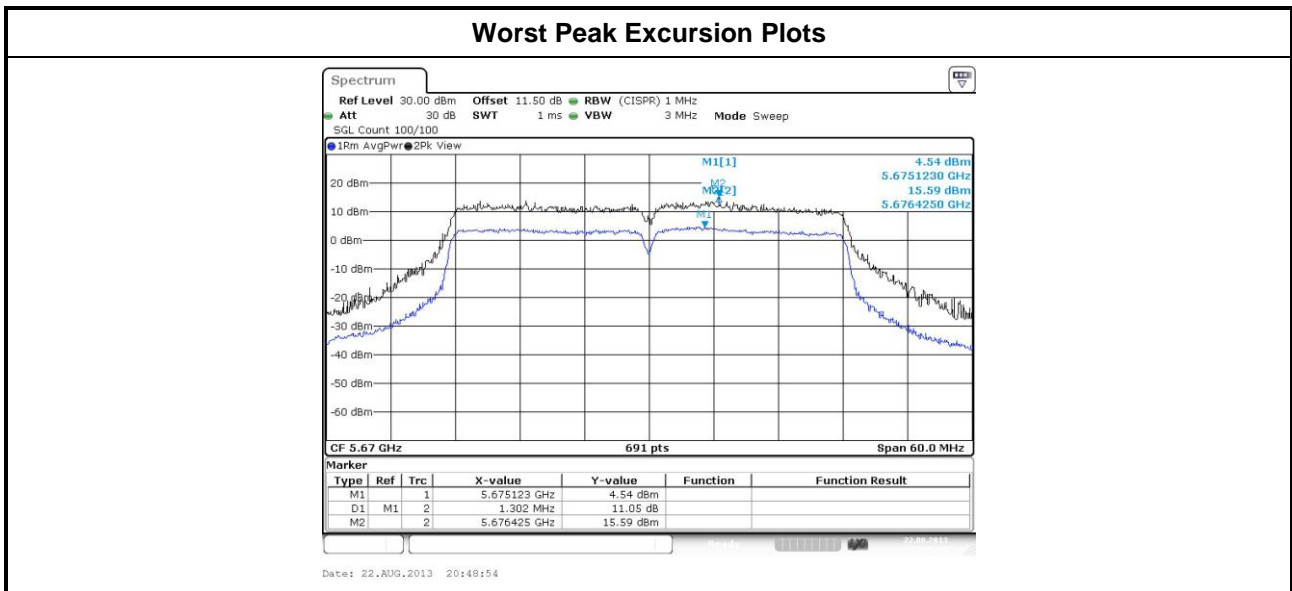
UNII Peak Excursion Result (5250-5350MHz band)								
Condition			Peak Excursion (dB)					
Modulation Mode	N _{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	256QAM	Limit
11a	2	5260	7.90	8.26	7.17	8.55	-	13.0
HT20	2	5300	7.79	8.31	7.97	8.40	-	13.0
HT40	2	5270	7.74	8.70	8.53	8.40	-	13.0
VHT20	2	5300	7.71	7.99	8.23	8.47	8.46	13.0
VHT40	2	5270	7.86	8.54	8.36	8.59	7.78	13.0
VHT80	2	5290	9.52	10.49	10.10	8.83	8.78	13.0
Result			Complied					



Note 1: Peak excursion = Mark2 value – (Mark 1 value + duty factor)



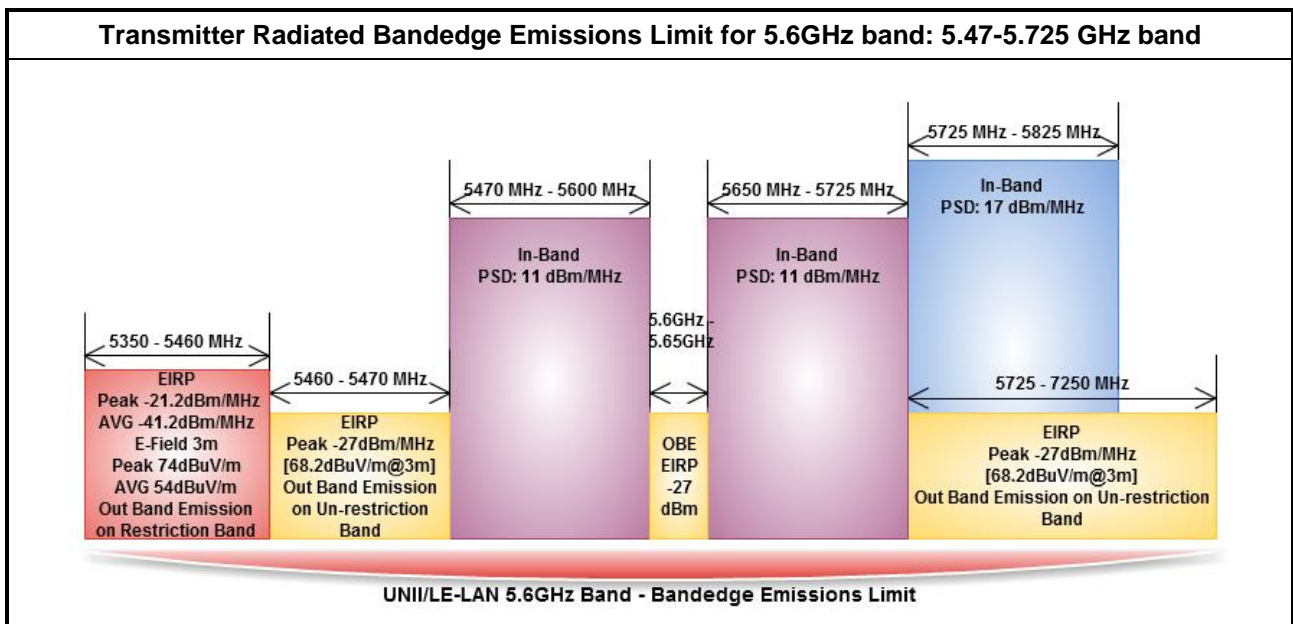
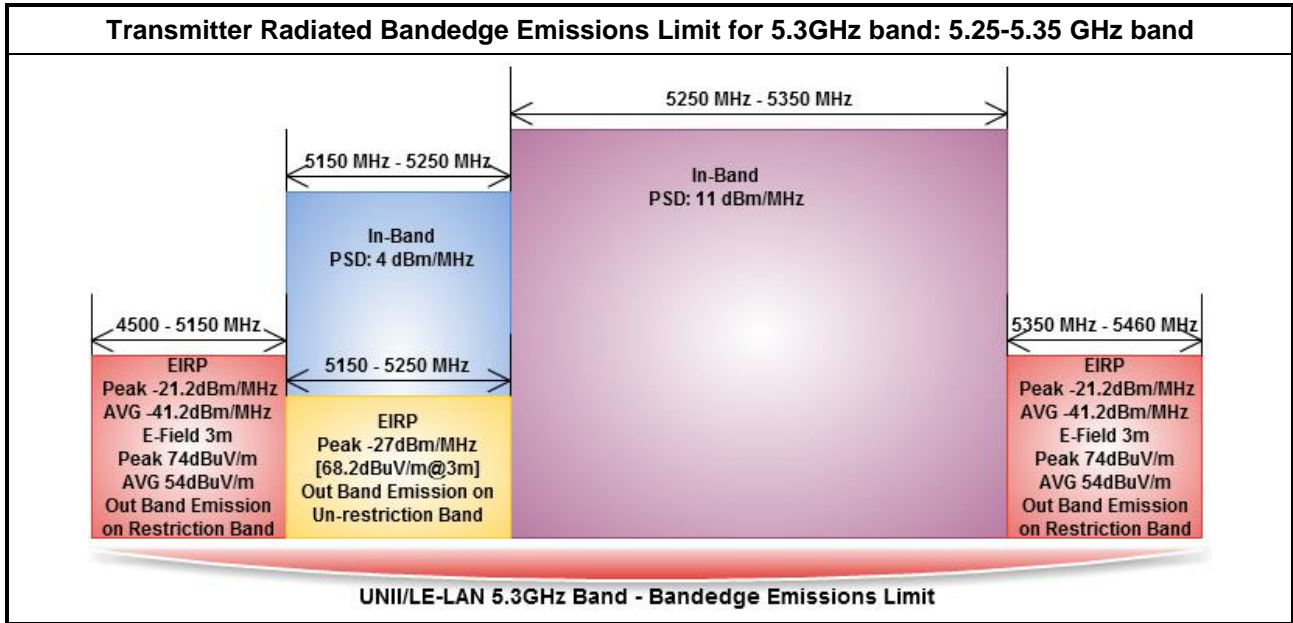
UNII Peak Excursion Result (5470-5725MHz band)								
Condition			Peak Excursion (dB)					
Modulation Mode	N _{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	256QAM	Limit
11a	2	5580	8.16	8.76	7.83	7.38	-	13.0
HT20	2	5580	7.89	7.69	9.31	8.65	-	13.0
HT40	2	5500	8.00	8.20	7.91	8.35	-	13.0
VHT20	2	5580	7.42	8.95	8.44	8.94	9.03	13.0
VHT40	2	5670	8.38	8.45	7.91	10.40	8.59	13.0
VHT80	2	5530	9.12	9.78	10.37	9.33	9.28	13.0
Result			Complied					



Note 1: Peak excursion = Mark2 value – (Mark 1 value + duty factor)

3.6 Transmitter Radiated Bandedge Emissions

3.6.1 Transmitter Radiated Bandedge Emissions Limit



3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

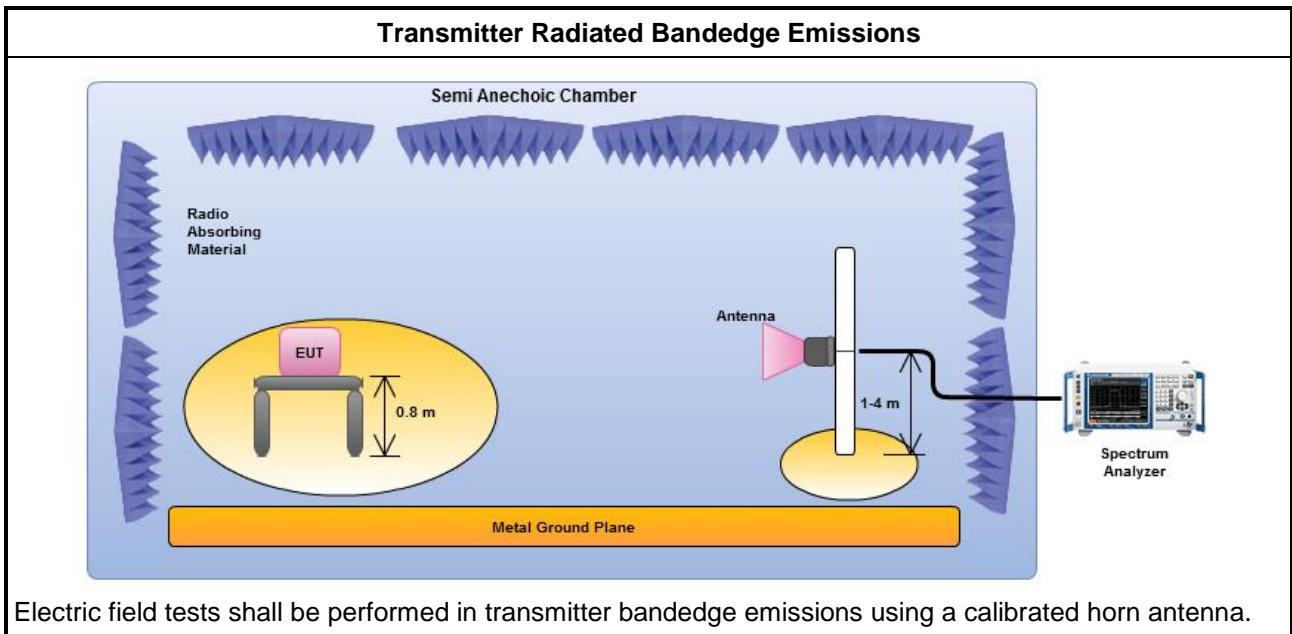


3.6.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input checked="" type="checkbox"/>	The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
<input type="checkbox"/>	If EUT operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency channel at lower-band and highest frequency channel at higher-band. Transmitter in-band emissions will consist of adjacent contiguous bands (e.g., IEEE 802.11ac VHT160 The lowest frequency channel at lower-band and highest frequency channel at higher-band in-band emissions will consist of two adjacent contiguous bands.)
<input type="checkbox"/>	Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band).
<input type="checkbox"/>	Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).
<input checked="" type="checkbox"/>	If EUT operate in individual non-contiguous bands, bandedge testing performed at the lowest frequency channel and highest frequency channel within lower-band and higher-band. (e.g., (e.g., IEEE 802.11ac VHT160)
<input checked="" type="checkbox"/>	Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band).
<input type="checkbox"/>	Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).
<input checked="" type="checkbox"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)2) for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)1) for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, H)6) Method AD (Trace Averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, H)6) Method VB (Reduced VBW).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
<input checked="" type="checkbox"/>	Integration Method is used for emissions within 2 MHz of the band edge
<input checked="" type="checkbox"/>	For the transmitter bandedge emissions shall be measured using following options below:
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)3)d) for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.
<input checked="" type="checkbox"/>	For radiated measurement, refer as ANSI C63.10, clause 6.5 for radiated emissions from above 1 GHz.

Test Method	
<input type="checkbox"/>	For conducted and cabinet radiation measurement, refer as FCC KDB 789033 v01r03, clause H)3).
<input type="checkbox"/>	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
<input type="checkbox"/>	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB

3.6.4 Test Setup





3.6.5 Test Result of Transmitter Radiated Bandedge Emissions

Transmitter Radiated Bandedge Emissions Result								
Modulation	11a		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5260	116.58	5147.70	3	60.17	74	PK	V
4500-5150	5260	104.37	5147.40	3	45.72	54	AV	V
5350-5460	5320	114.27	5350.39	3	73.89	74	PK	V
5350-5460	5320	101.84	5350.04	3	48.07	54	AV	V

5.2GHz Lower-band (Lowest Ch.)	5.2GHz Higher-band (Highest Ch.)

Note 1: Measurement worst emissions of receive antenna polarization: V (Vertical).



Transmitter Radiated Bandedge Emissions Result								
Modulation	11a		Restricted Band Emissions					
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5460-5470	5500	113.59	5469.28	3	73.85	74	PK	V
5460-5470	5500	101.34	5470.00	3	47.99	54	AV	V
5725-7250	5700	111.84	5725.23	3	73.85	74	PK	V
5725-7250	5700	99.65	5725.04	3	48.63	54	AV	V

5.6GHz band (Lowest Ch.)	5.6GHz band (Highest Ch.)

Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).



Transmitter Radiated Bandedge Emissions Result								
Modulation	HT20		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5260	115.99	5148.60	3	61.14	74	PK	V
4500-5150	5260	104.22	5147.10	3	45.36	54	AV	V
5350-5460	5320	113.46	5350.25	3	73.84	74	PK	V
5350-5460	5320	101.20	5350.25	3	47.13	54	AV	V
5.2GHz Lower-band (Lowest Ch.)				5.2GHz Higher-band (Highest Ch.)				
Note 1: Measurement worst emissions of receive antenna polarization: V (Vertical).								



Transmitter Radiated Bandedge Emissions Result								
Modulation	HT20		Restricted Band Emissions					
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5460-5470	5500	112.73	5469.52	3	73.79	74	PK	V
5460-5470	5500	100.39	5469.92	3	47.89	54	AV	V
5725-7250	5700	111.10	5725.17	3	73.84	74	PK	V
5725-7250	5700	99.08	5725.04	3	47.52	54	AV	V

5.6GHz band (Lowest Ch.)	5.6GHz band (Highest Ch.)
<p>Date: 2013-08-03</p>	<p>Date: 2013-08-03</p>
<p>Date: 2013-08-03</p>	<p>Date: 2013-08-03</p>

Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).



Transmitter Radiated Bandedge Emissions Result								
Modulation	HT40		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5270	111.66	5133.90	3	58.56	74	PK	V
4500-5150	5270	98.89	5148.60	3	44.63	54	AV	V
5350-5460	5310	111.47	5350.00	3	69.60	74	PK	V
5350-5460	5310	97.75	5350.00	3	53.82	54	AV	V
5.2GHz Lower-band (Lowest Ch.)				5.2GHz Higher-band (Highest Ch.)				
Note 1: Measurement worst emissions of receive antenna polarization: V (Vertical).								



Transmitter Radiated Bandedge Emissions Result								
Modulation	HT40		Restricted Band Emissions					
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5460-5470	5510	109.34	5469.90	3	69.54	74	PK	V
5460-5470	5510	96.10	5470.00	3	53.86	54	AV	V
5725-7250	5670	114.16	5725.80	3	69.69	74	PK	V
5725-7250	5670	100.58	5725.00	3	52.75	54	AV	V

5.6GHz band (Lowest Ch.)	5.6GHz band (Highest Ch.)
<p>Date: 2013-08-03</p>	<p>Date: 2013-08-03</p>
<p>Date: 2013-08-03</p>	<p>Date: 2013-08-03</p>

Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).



Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT20		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5260	116.59	5357.40	3	64.11	74	PK	V
4500-5150	5260	103.98	5142.30	3	45.49	54	AV	V
5350-5460	5320	113.03	5350.25	3	73.81	74	PK	V
5350-5460	5320	100.38	5350.04	3	47.34	54	AV	V
5.2GHz Lower-band (Lowest Ch.)				5.2GHz Higher-band (Highest Ch.)				
Note 1: Measurement worst emissions of receive antenna polarization: V (Vertical).								



Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT20		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5460-5470	5500	112.69	5470.00	3	73.77	74	PK	V
5460-5470	5500	100.54	5470.00	3	48.47	54	AV	V
5725-7250	5700	111.18	5725.43	3	73.80	74	PK	V
5725-7250	5700	98.80	5724.97	3	48.79	54	AV	V

5.2GHz Lower-band (Lowest Ch.)	5.2GHz Higher-band (Highest Ch.)
<p>Date: 2013-08-03</p>	<p>Date: 2013-08-03</p>
<p>Date: 2013-08-03</p>	<p>Date: 2013-08-03</p>

Note 1: Measurement worst emissions of receive antenna polarization: V (Vertical).



Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT40		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5270	111.99	5352.90	3	61.12	74	PK	V
4500-5150	5270	99.10	5142.30	3	44.60	54	AV	V
5350-5460	5310	110.91	5350.10	3	69.34	74	PK	V
5350-5460	5310	96.93	5350.00	3	53.87	54	AV	V

5.2GHz Lower-band (Lowest Ch.)	5.2GHz Higher-band (Highest Ch.)
<p>Level (dBuV/m) vs Frequency (MHz) for 5.2GHz Lower-band. The plot shows a peak at 5270 MHz. Red horizontal lines indicate FCC PART 15E and FCC PART 15E (AVG) limits. Vertical markers 1, 2, and 3 are present.</p>	<p>Level (dBuV/m) vs Frequency (MHz) for 5.2GHz Higher-band. The plot shows a peak at 5310 MHz. Red horizontal lines indicate FCC PART 15E and FCC PART 15E (AVG) limits. Vertical markers 1 and 2 are present.</p>
<p>Level (dBuV/m) vs Frequency (MHz) for 5.2GHz Lower-band. The plot shows a peak at 5270 MHz. Red horizontal lines indicate FCC PART 15E and FCC PART 15E (AVG) limits. Vertical markers 1, 2, and 3 are present.</p>	<p>Level (dBuV/m) vs Frequency (MHz) for 5.2GHz Higher-band. The plot shows a peak at 5310 MHz. Red horizontal lines indicate FCC PART 15E and FCC PART 15E (AVG) limits. Vertical markers 1 and 2 are present.</p>

Note 1: Measurement worst emissions of receive antenna polarization: V (Vertical).



Transmitter Radiated Bandedge Emissions Result								
Modulation	HT40		Restricted Band Emissions					
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5460-5470	5510	109.35	5470.00	3	68.96	74	PK	V
5460-5470	5510	96.13	5470.00	3	53.85	54	AV	V
5725-7250	5670	114.43	5726.40	3	69.98	74	PK	V
5725-7250	5670	100.99	5725.10	3	52.77	54	AV	V

5.6GHz band (Lowest Ch.)	5.6GHz band (Highest Ch.)
<p>Level (dBuV/m) vs Frequency (MHz) for 5.6GHz band (Lowest Ch.). The plot shows a signal level rising from approximately 54.8 dBuV/m at 5460 MHz to 109.6 dBuV/m at 5510 MHz. Two red horizontal lines indicate FCC Part 15E limits: 74 dBuV/m (PK) and 54 dBuV/m (AV). Vertical markers 1, 2, and 3 are placed at 5460, 5470, and 5510 MHz respectively.</p>	<p>Level (dBuV/m) vs Frequency (MHz) for 5.6GHz band (Highest Ch.). The plot shows a signal level starting at approximately 109.6 dBuV/m at 5660 MHz and decreasing to about 52.77 dBuV/m at 5725 MHz. Two red horizontal lines indicate FCC Part 15E limits: 74 dBuV/m (PK) and 54 dBuV/m (AV). Vertical markers 1 and 2 are placed at 5660 MHz and 5725 MHz respectively.</p>
<p>Level (dBuV/m) vs Frequency (MHz) for 5.6GHz band (Lowest Ch.). The plot shows a signal level rising from approximately 54.8 dBuV/m at 5460 MHz to 109.6 dBuV/m at 5510 MHz. Two red horizontal lines indicate FCC Part 15E limits: 74 dBuV/m (PK) and 54 dBuV/m (AV). Vertical markers 1, 2, and 3 are placed at 5460, 5470, and 5510 MHz respectively.</p>	<p>Level (dBuV/m) vs Frequency (MHz) for 5.6GHz band (Highest Ch.). The plot shows a signal level starting at approximately 109.6 dBuV/m at 5660 MHz and decreasing to about 52.77 dBuV/m at 5725 MHz. Two red horizontal lines indicate FCC Part 15E limits: 74 dBuV/m (PK) and 54 dBuV/m (AV). Vertical markers 1 and 2 are placed at 5660 MHz and 5725 MHz respectively.</p>

Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).



Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT80		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5290	100.56	5114.40	3	57.83	74	PK	V
4500-5150	5290	85.66	5149.50	3	44.14	54	AV	V
5350-5460	5290	100.56	5350.20	3	67.93	74	PK	V
5350-5460	5290	85.66	5350.20	3	53.55	54	AV	V
5.2GHz Lower-band (Lowest Ch.)								
<p>Note 1: Measurement worst emissions of receive antenna polarization: V (Vertical).</p>								



Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT80		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5460-5470	5530	101.11	5470.00	3	69.42	74	PK	V
5460-5470	5530	86.35	5470.00	3	53.84	54	AV	V
5725-7250	5530	101.11	5736.56	3	59.73	74	PK	V
5725-7250	5530	86.35	5748.72	3	45.38	54	AV	V
5.2GHz Lower-band (Lowest Ch.)								
<p>Note 1: Measurement worst emissions of receive antenna polarization: V (Vertical).</p>								



3.7 Transmitter Radiated Unwanted Emissions

3.7.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.825 GHz	5.715 5.725 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] 5.825 5.835 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

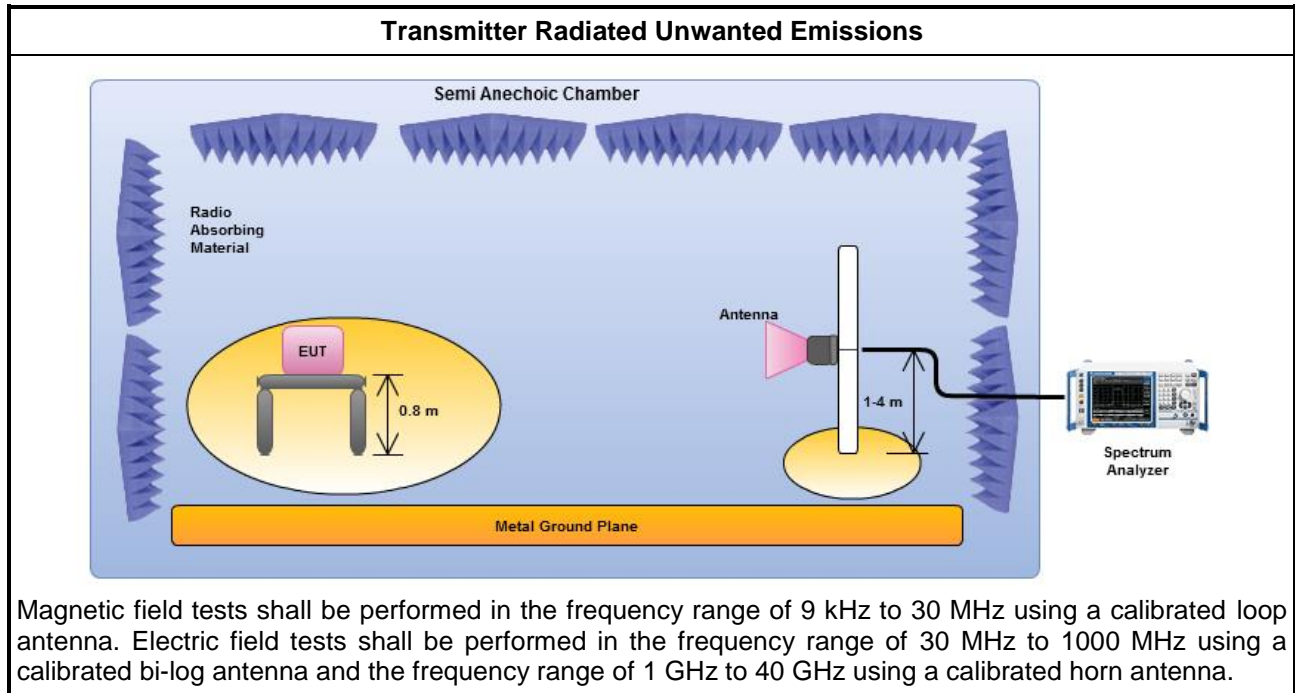


3.7.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
<input type="checkbox"/>	Measurements in the frequency range 5 GHz - 10GHz are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input type="checkbox"/>	Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input type="checkbox"/>	Measurements in the frequency range above 18 GHz - 40GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input checked="" type="checkbox"/>	The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
<input checked="" type="checkbox"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)2) for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)1) for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, H)6) Method AD (Trace Averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, H)6) Method VB (Reduced VBW).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
<input checked="" type="checkbox"/>	For radiated measurement.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.

Test Method	
<input type="checkbox"/>	For conducted and cabinet radiation measurement, refer as FCC KDB 789033 v01r03, clause H)3).
<input type="checkbox"/>	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
<input type="checkbox"/>	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB

3.7.4 Test Setup



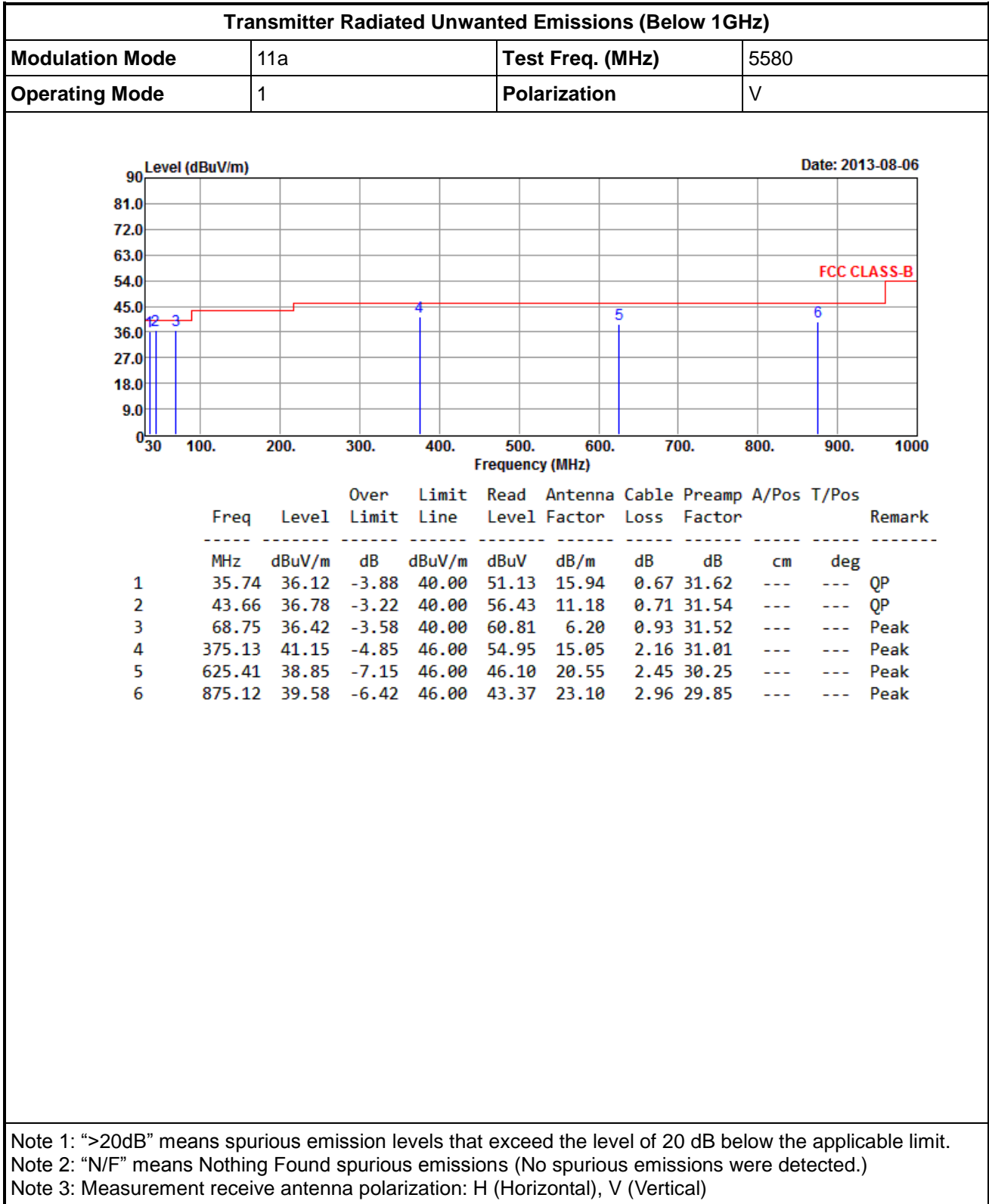
Note: Test distance is 3m.

3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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



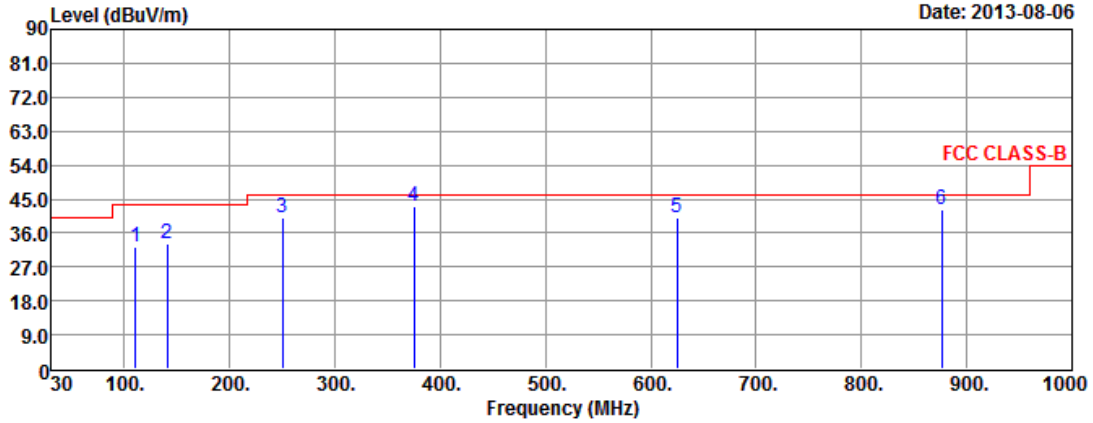
3.7.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)





Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	H



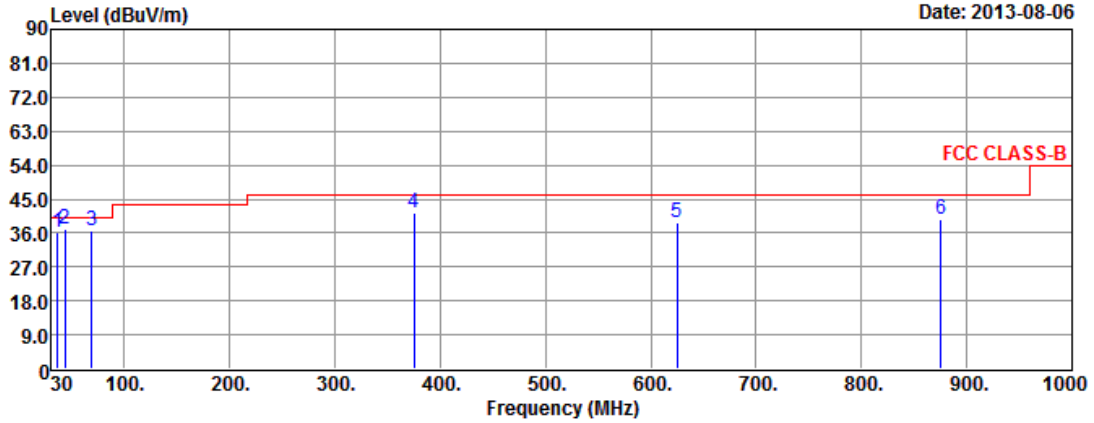
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB	cm	deg	
1	110.45	32.09	-11.41	43.50	51.23	11.25	1.15	31.54	---	---	Peak
2	140.43	32.96	-10.54	43.50	51.70	11.28	1.25	31.27	---	---	Peak
3	250.11	39.97	-6.03	46.00	56.66	12.61	1.60	30.90	---	---	Peak
4	375.24	42.91	-3.09	46.00	56.70	15.06	2.16	31.01	---	---	QP
5	624.96	40.18	-5.82	46.00	47.43	20.55	2.45	30.25	---	---	Peak
6	875.95	42.26	-3.74	46.00	46.04	23.10	2.97	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	V



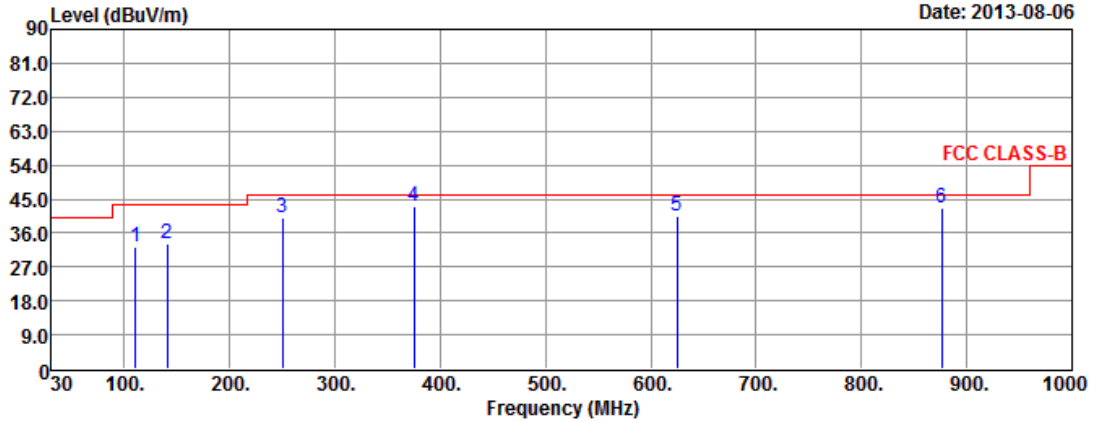
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	36.53	36.29	-3.71	40.00	51.80	15.45	0.66	31.62	---	---	QP
2	43.75	36.88	-3.12	40.00	56.59	11.12	0.71	31.54	---	---	QP
3	68.75	36.51	-3.49	40.00	60.90	6.20	0.93	31.52	---	---	Peak
4	375.25	41.29	-4.71	46.00	55.08	15.06	2.16	31.01	---	---	Peak
5	625.12	38.95	-7.05	46.00	46.20	20.55	2.45	30.25	---	---	Peak
6	875.25	39.66	-6.34	46.00	43.45	23.10	2.96	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	110.37	32.16	-11.34	43.50	51.31	11.24	1.15	31.54	---	---	Peak
2	140.44	33.12	-10.38	43.50	51.86	11.28	1.25	31.27	---	---	Peak
3	250.21	40.16	-5.84	46.00	56.82	12.63	1.61	30.90	---	---	Peak
4	375.25	42.89	-3.11	46.00	56.68	15.06	2.16	31.01	---	---	QP
5	625.10	40.29	-5.71	46.00	47.54	20.55	2.45	30.25	---	---	Peak
6	875.97	42.63	-3.37	46.00	46.41	23.10	2.97	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

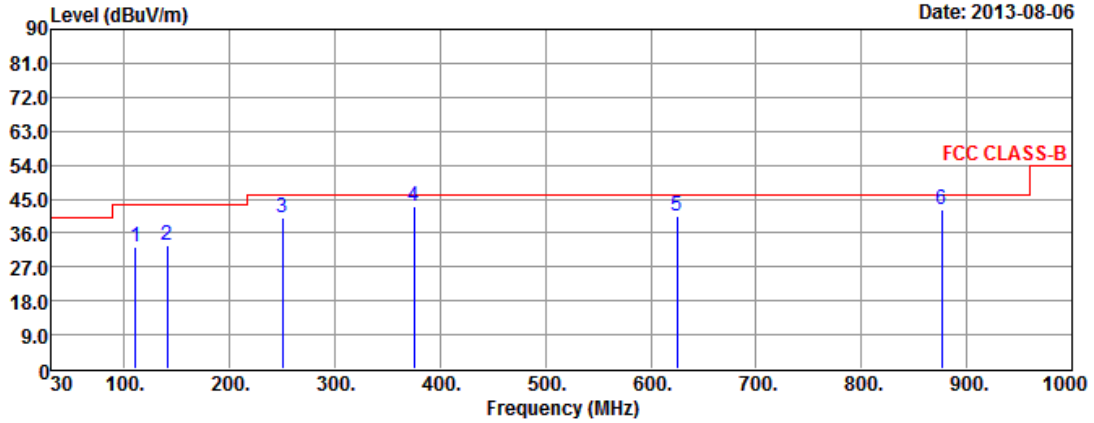


Transmitter Radiated Unwanted Emissions (Below 1GHz)																																																																																																										
Modulation Mode	VHT20			Test Freq. (MHz)	5580																																																																																																					
Operating Mode	1			Polarization	V																																																																																																					
<div style="display: flex; justify-content: space-between;"> <div> <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (30 to 1000). A red line represents the FCC CLASS-B limit, which is 45 dBuV/m from 30 to 100 MHz, 40 dBuV/m from 100 to 300 MHz, 46 dBuV/m from 300 to 1000 MHz, and 54 dBuV/m from 1000 to 10000 MHz. Six test results are marked with blue vertical lines and numbered 1 through 6, corresponding to the data table below.</p> </div> <div style="text-align: right;">Date: 2013-08-06</div> </div>																																																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit Line</th> <th>Read Level</th> <th>Antenna Factor</th> <th>Cable Loss</th> <th>Preamp Factor</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>35.73</td> <td>36.29</td> <td>-3.71</td> <td>40.00</td> <td>51.29</td> <td>15.95</td> <td>0.67</td> <td>31.62</td> <td>---</td> <td>---</td> <td>QP</td> </tr> <tr> <td>2</td> <td>43.59</td> <td>36.84</td> <td>-3.16</td> <td>40.00</td> <td>56.46</td> <td>11.22</td> <td>0.70</td> <td>31.54</td> <td>---</td> <td>---</td> <td>QP</td> </tr> <tr> <td>3</td> <td>68.75</td> <td>36.66</td> <td>-3.34</td> <td>40.00</td> <td>61.05</td> <td>6.20</td> <td>0.93</td> <td>31.52</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>375.11</td> <td>41.22</td> <td>-4.78</td> <td>46.00</td> <td>55.02</td> <td>15.05</td> <td>2.16</td> <td>31.01</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>625.33</td> <td>38.81</td> <td>-7.19</td> <td>46.00</td> <td>46.06</td> <td>20.55</td> <td>2.45</td> <td>30.25</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>875.20</td> <td>39.66</td> <td>-6.34</td> <td>46.00</td> <td>43.45</td> <td>23.10</td> <td>2.96</td> <td>29.85</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> </tbody> </table>												Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	35.73	36.29	-3.71	40.00	51.29	15.95	0.67	31.62	---	---	QP	2	43.59	36.84	-3.16	40.00	56.46	11.22	0.70	31.54	---	---	QP	3	68.75	36.66	-3.34	40.00	61.05	6.20	0.93	31.52	---	---	Peak	4	375.11	41.22	-4.78	46.00	55.02	15.05	2.16	31.01	---	---	Peak	5	625.33	38.81	-7.19	46.00	46.06	20.55	2.45	30.25	---	---	Peak	6	875.20	39.66	-6.34	46.00	43.45	23.10	2.96	29.85	---	---	Peak
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark																																																																																															
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																
1	35.73	36.29	-3.71	40.00	51.29	15.95	0.67	31.62	---	---	QP																																																																																															
2	43.59	36.84	-3.16	40.00	56.46	11.22	0.70	31.54	---	---	QP																																																																																															
3	68.75	36.66	-3.34	40.00	61.05	6.20	0.93	31.52	---	---	Peak																																																																																															
4	375.11	41.22	-4.78	46.00	55.02	15.05	2.16	31.01	---	---	Peak																																																																																															
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6	875.20	39.66	-6.34	46.00	43.45	23.10	2.96	29.85	---	---	Peak																																																																																															
<p>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</p>																																																																																																										



Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	H



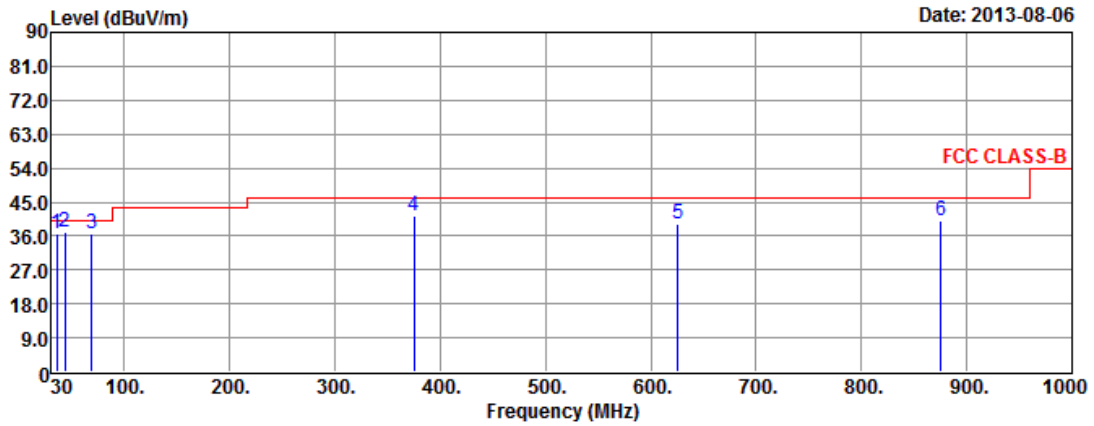
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	110.51	32.28	-11.22	43.50	51.41	11.26	1.15	31.54	---	---	Peak
2	140.50	32.85	-10.65	43.50	51.59	11.28	1.25	31.27	---	---	Peak
3	250.20	40.19	-5.81	46.00	56.85	12.63	1.61	30.90	---	---	Peak
4	375.25	42.86	-3.14	46.00	56.65	15.06	2.16	31.01	---	---	QP
5	624.88	40.36	-5.64	46.00	47.61	20.55	2.45	30.25	---	---	Peak
6	875.91	42.13	-3.87	46.00	45.91	23.10	2.97	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
Operating Mode	1	Polarization	V



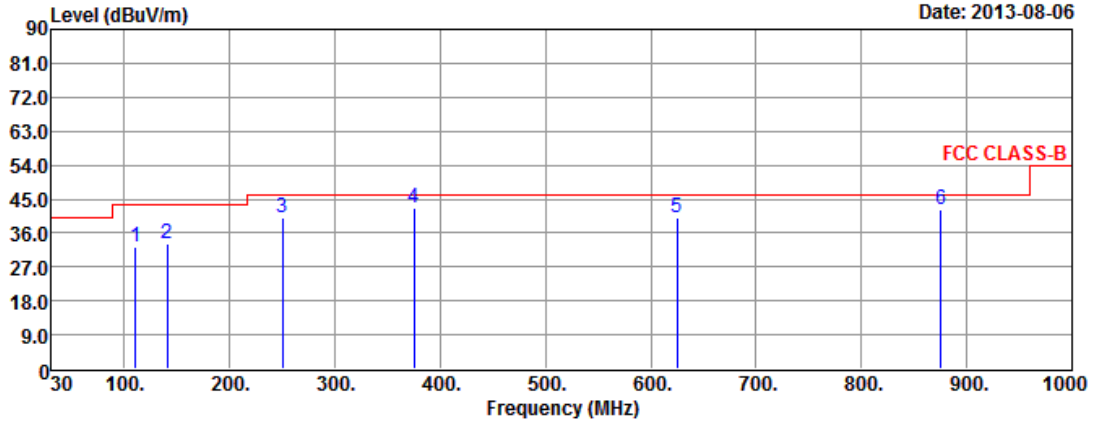
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	35.70	36.46	-3.54	40.00	51.44	15.97	0.67	31.62	---	---	QP
2	43.60	36.91	-3.09	40.00	56.54	11.21	0.70	31.54	---	---	QP
3	68.73	36.71	-3.29	40.00	61.10	6.20	0.93	31.52	---	---	Peak
4	375.13	41.25	-4.75	46.00	55.05	15.05	2.16	31.01	---	---	Peak
5	625.45	38.99	-7.01	46.00	46.24	20.55	2.45	30.25	---	---	Peak
6	875.19	39.94	-6.06	46.00	43.73	23.10	2.96	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
Operating Mode	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	110.52	32.25	-11.25	43.50	51.38	11.26	1.15	31.54	---	---	Peak
2	140.51	33.21	-10.29	43.50	51.95	11.28	1.25	31.27	---	---	Peak
3	250.21	40.16	-5.84	46.00	56.82	12.63	1.61	30.90	---	---	Peak
4	375.16	42.78	-3.22	46.00	56.58	15.05	2.16	31.01	---	---	QP
5	625.10	40.22	-5.78	46.00	47.47	20.55	2.45	30.25	---	---	Peak
6	875.85	42.26	-3.74	46.00	46.04	23.10	2.97	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



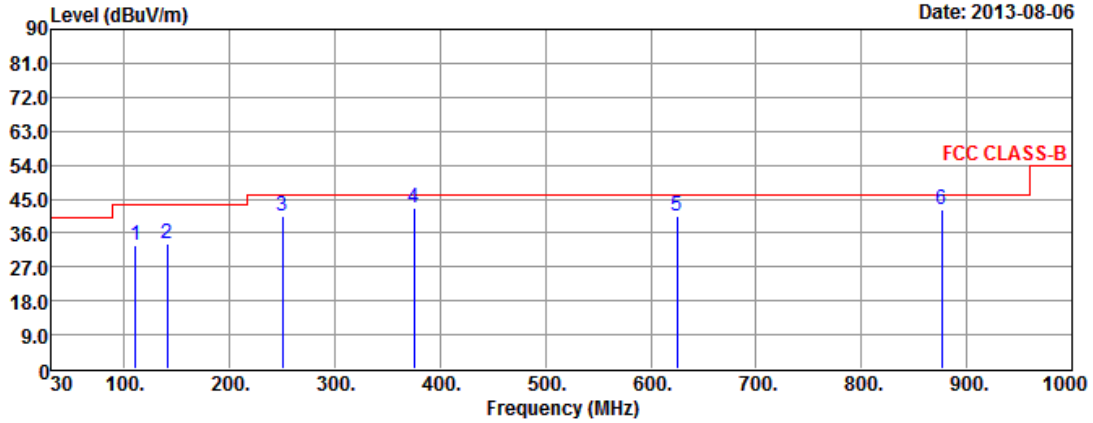
Transmitter Radiated Unwanted Emissions (Below 1GHz)											
Modulation Mode	VHT40			Test Freq. (MHz)	5550						
Operating Mode	1			Polarization	V						
<div style="display: flex; justify-content: space-between;"> <div> <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (30 to 1000). A red line represents the FCC CLASS-B limit, which is 45 dBuV/m from 30 MHz to 100 MHz, 40 dBuV/m from 100 MHz to 300 MHz, 46 dBuV/m from 300 MHz to 1000 MHz. Six test results are marked with blue vertical lines and numbered 1 through 6, corresponding to the data table below.</p> </div> <div style="text-align: right;">Date: 2013-08-06</div> </div>											
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	35.67	36.27	-3.73	40.00	51.23	15.99	0.67	31.62	---	---	QP
2	43.61	36.85	-3.15	40.00	56.48	11.21	0.70	31.54	---	---	QP
3	68.71	36.58	-3.42	40.00	60.98	6.20	0.93	31.53	---	---	Peak
4	375.25	41.35	-4.65	46.00	55.14	15.06	2.16	31.01	---	---	Peak
5	625.55	38.94	-7.06	46.00	46.18	20.56	2.45	30.25	---	---	Peak
6	875.42	39.68	-6.32	46.00	43.47	23.10	2.96	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5550
Operating Mode	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	110.43	32.52	-10.98	43.50	51.66	11.25	1.15	31.54	---	---	Peak
2	140.41	33.15	-10.35	43.50	51.89	11.28	1.25	31.27	---	---	Peak
3	250.27	40.28	-5.72	46.00	56.93	12.64	1.61	30.90	---	---	Peak
4	375.15	42.84	-3.16	46.00	56.64	15.05	2.16	31.01	---	---	QP
5	624.85	40.63	-5.37	46.00	47.88	20.55	2.45	30.25	---	---	Peak
6	875.95	42.33	-3.67	46.00	46.11	23.10	2.97	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

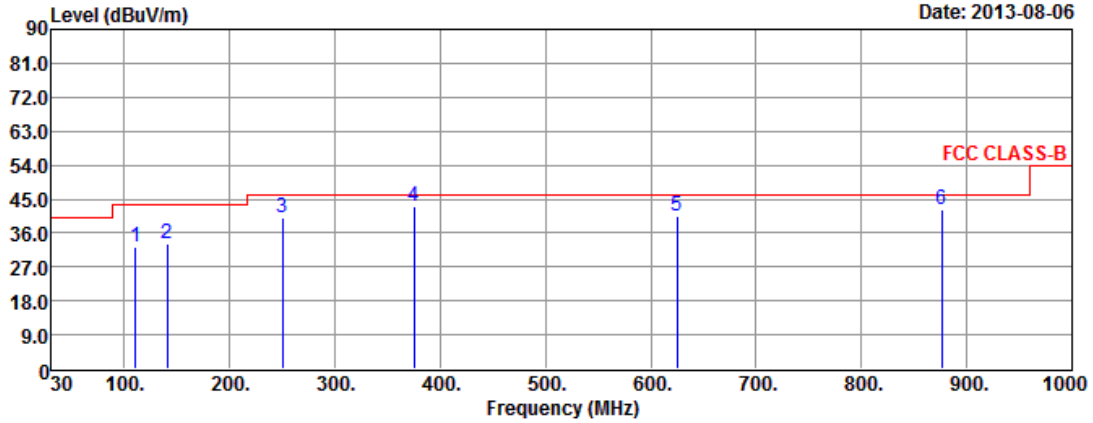


Transmitter Radiated Unwanted Emissions (Below 1GHz)																																																																																																			
Modulation Mode	VHT80	Test Freq. (MHz)	5530																																																																																																
Operating Mode	1	Polarization	V																																																																																																
<div style="display: flex; justify-content: space-between;"> <div> <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (30 to 1000). A red line represents the FCC CLASS-B limit, which is constant at 45 dBuV/m from 30 MHz to 100 MHz, then steps up to 46 dBuV/m from 100 MHz to 1000 MHz. Six blue vertical lines indicate measured peaks at frequencies 1, 2, 3, 4, 5, and 6. The peak levels are approximately 36.45, 36.83, 36.25, 41.33, 39.47, and 40.29 dBuV/m respectively.</p> </div> <div style="text-align: right;">Date: 2013-08-06</div> </div>																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit Line</th> <th>Read Level</th> <th>Antenna Factor</th> <th>Cable Loss</th> <th>Preamp Factor</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>35.69</td> <td>36.45</td> <td>-3.55</td> <td>40.00</td> <td>51.42</td> <td>15.98</td> <td>0.67</td> <td>31.62</td> <td>---</td> <td>---</td> <td>QP</td> </tr> <tr> <td>2</td> <td>43.42</td> <td>36.83</td> <td>-3.17</td> <td>40.00</td> <td>56.35</td> <td>11.32</td> <td>0.70</td> <td>31.54</td> <td>---</td> <td>---</td> <td>QP</td> </tr> <tr> <td>3</td> <td>68.75</td> <td>36.25</td> <td>-3.75</td> <td>40.00</td> <td>60.64</td> <td>6.20</td> <td>0.93</td> <td>31.52</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>375.16</td> <td>41.33</td> <td>-4.67</td> <td>46.00</td> <td>55.13</td> <td>15.05</td> <td>2.16</td> <td>31.01</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>625.75</td> <td>39.47</td> <td>-6.53</td> <td>46.00</td> <td>46.70</td> <td>20.56</td> <td>2.46</td> <td>30.25</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>875.12</td> <td>40.29</td> <td>-5.71</td> <td>46.00</td> <td>44.08</td> <td>23.10</td> <td>2.96</td> <td>29.85</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> </tbody> </table>					Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	35.69	36.45	-3.55	40.00	51.42	15.98	0.67	31.62	---	---	QP	2	43.42	36.83	-3.17	40.00	56.35	11.32	0.70	31.54	---	---	QP	3	68.75	36.25	-3.75	40.00	60.64	6.20	0.93	31.52	---	---	Peak	4	375.16	41.33	-4.67	46.00	55.13	15.05	2.16	31.01	---	---	Peak	5	625.75	39.47	-6.53	46.00	46.70	20.56	2.46	30.25	---	---	Peak	6	875.12	40.29	-5.71	46.00	44.08	23.10	2.96	29.85	---	---	Peak
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark																																																																																								
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3	68.75	36.25	-3.75	40.00	60.64	6.20	0.93	31.52	---	---	Peak																																																																																								
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Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation Mode	VHT80	Test Freq. (MHz)	5530
Operating Mode	1	Polarization	H

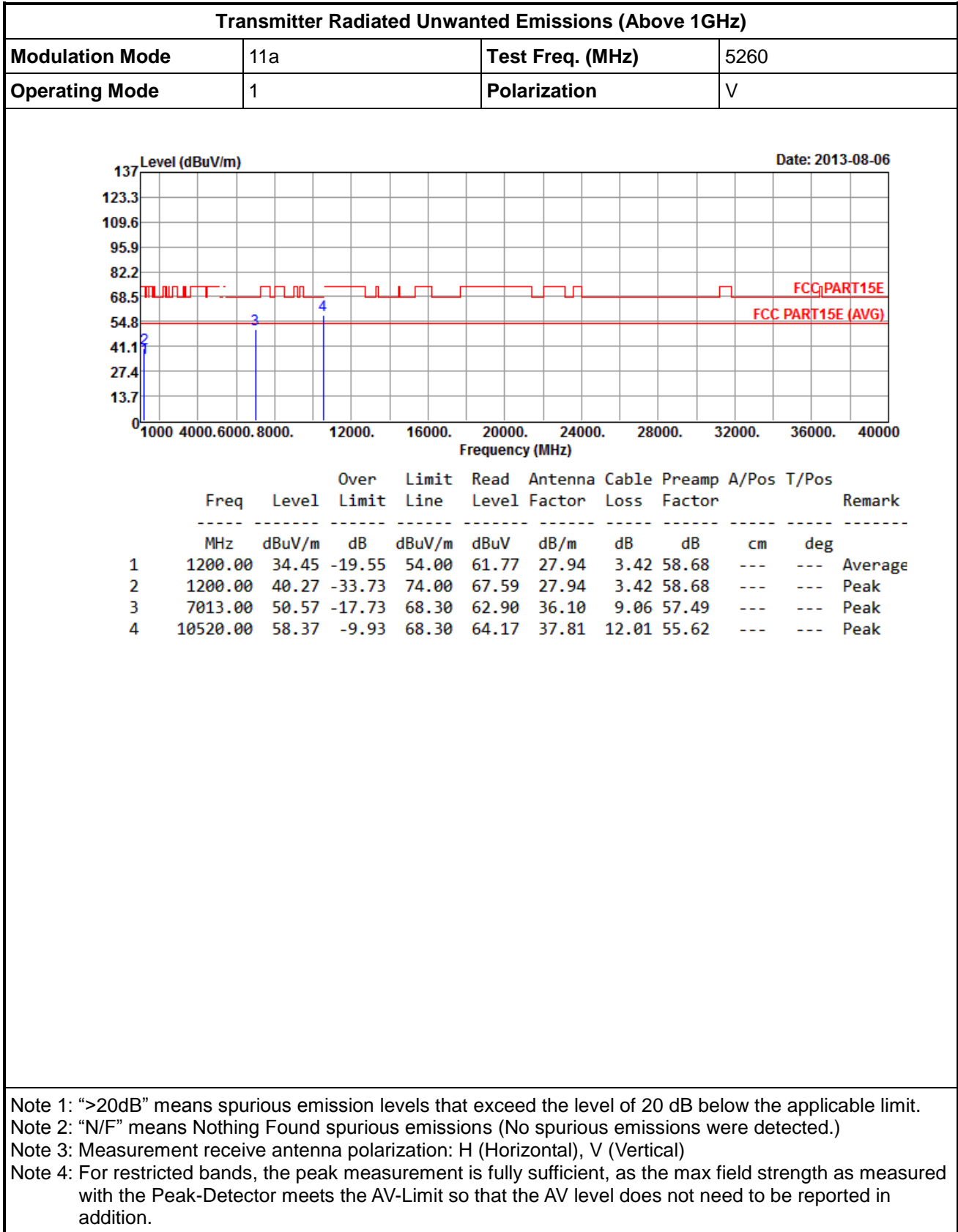


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	110.42	32.28	-11.22	43.50	51.42	11.25	1.15	31.54	---	---	Peak
2	140.50	33.12	-10.38	43.50	51.86	11.28	1.25	31.27	---	---	Peak
3	250.27	40.18	-5.82	46.00	56.83	12.64	1.61	30.90	---	---	Peak
4	375.20	42.85	-3.15	46.00	56.64	15.06	2.16	31.01	---	---	QP
5	624.85	40.27	-5.73	46.00	47.52	20.55	2.45	30.25	---	---	Peak
6	875.94	42.37	-3.63	46.00	46.15	23.10	2.97	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



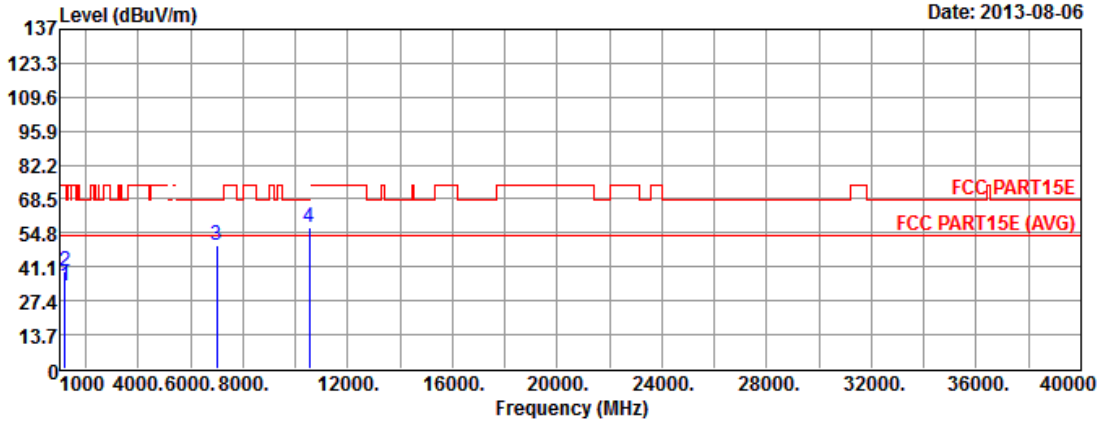
3.7.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a





Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5260
Operating Mode	1	Polarization	H



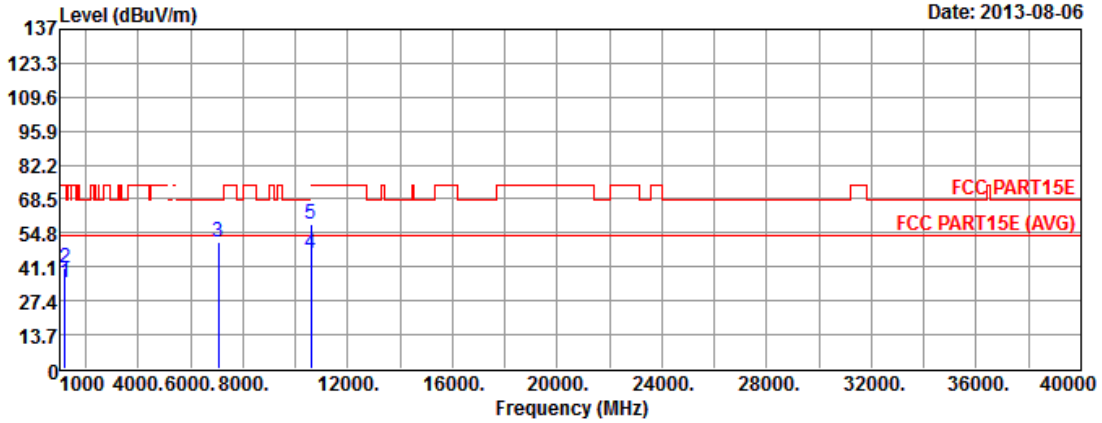
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.13	-20.87	54.00	60.45	27.94	3.42	58.68	---	---	Average
2	1200.00	39.47	-34.53	74.00	66.79	27.94	3.42	58.68	---	---	Peak
3	7013.00	49.82	-18.48	68.30	62.15	36.10	9.06	57.49	---	---	Peak
4	10520.00	56.93	-11.37	68.30	62.73	37.81	12.01	55.62	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5300
Operating Mode	1	Polarization	V



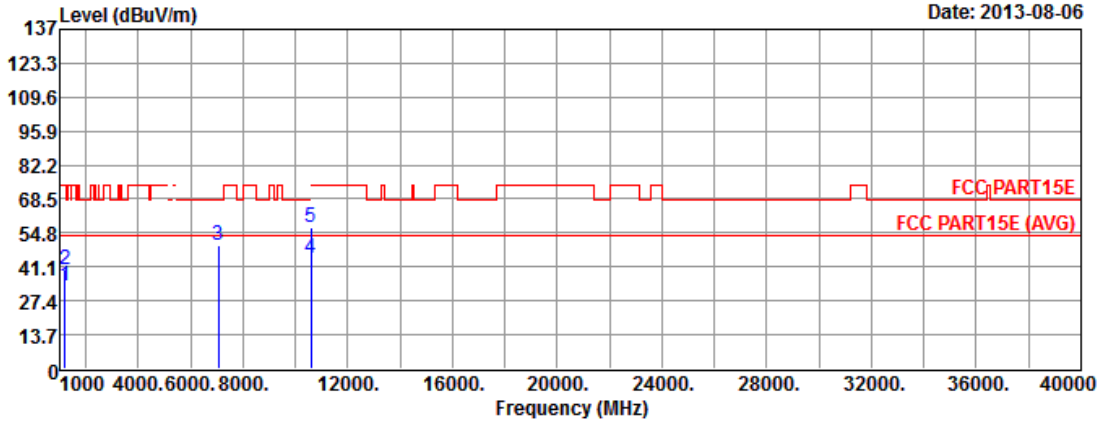
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.75	-19.25	54.00	62.07	27.94	3.42	58.68	---	---	Average
2	1200.00	40.55	-33.45	74.00	67.87	27.94	3.42	58.68	---	---	Peak
3	7064.00	50.95	-17.35	68.30	63.47	36.09	8.97	57.58	---	---	Peak
4	10600.00	46.37	-7.63	54.00	52.00	37.84	12.13	55.60	---	---	Average
5	10600.00	58.61	-15.39	74.00	64.24	37.84	12.13	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5300
Operating Mode	1	Polarization	H



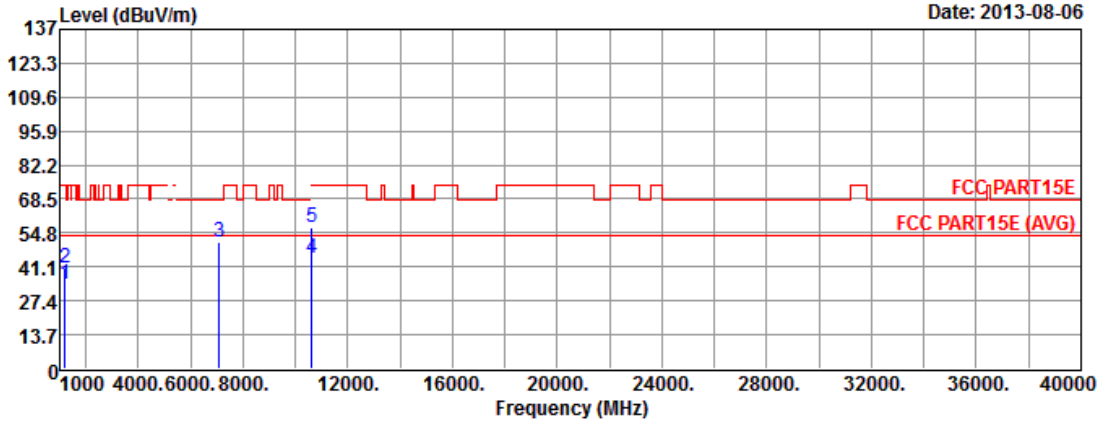
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.19	-20.81	54.00	60.51	27.94	3.42	58.68	---	---	Average
2	1200.00	39.76	-34.24	74.00	67.08	27.94	3.42	58.68	---	---	Peak
3	7064.00	49.94	-18.36	68.30	62.46	36.09	8.97	57.58	---	---	Peak
4	10600.00	44.37	-9.63	54.00	50.00	37.84	12.13	55.60	---	---	Average
5	10600.00	56.76	-17.24	74.00	62.39	37.84	12.13	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5320
Operating Mode	1	Polarization	V



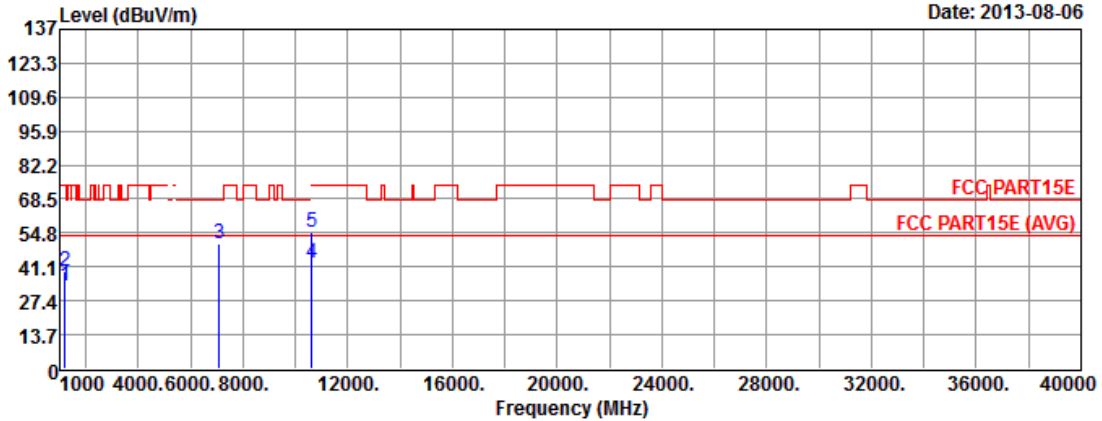
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.41	-19.59	54.00	61.73	27.94	3.42	58.68	---	---	Average
2	1200.00	40.41	-33.59	74.00	67.73	27.94	3.42	58.68	---	---	Peak
3	7091.00	51.27	-17.03	68.30	63.88	36.08	8.93	57.62	---	---	Peak
4	10640.00	44.36	-9.64	54.00	49.94	37.86	12.15	55.59	---	---	Average
5	10640.00	56.85	-17.15	74.00	62.43	37.86	12.15	55.59	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5320
Operating Mode	1	Polarization	H



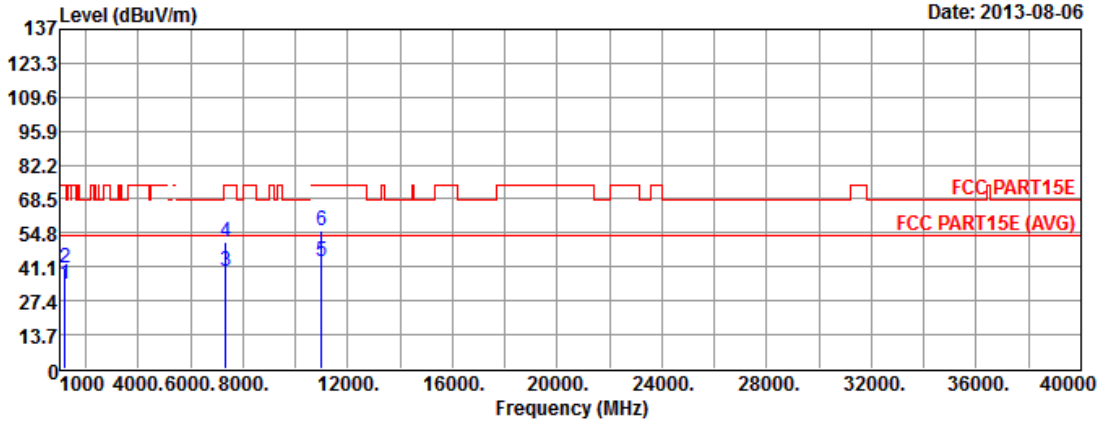
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.37	-20.63	54.00	60.69	27.94	3.42	58.68	---	---	Average
2	1200.00	39.59	-34.41	74.00	66.91	27.94	3.42	58.68	---	---	Peak
3	7091.00	50.24	-18.06	68.30	62.85	36.08	8.93	57.62	---	---	Peak
4	10640.00	42.31	-11.69	54.00	47.89	37.86	12.15	55.59	---	---	Average
5	10640.00	55.24	-18.76	74.00	60.82	37.86	12.15	55.59	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5500
Operating Mode	1	Polarization	V



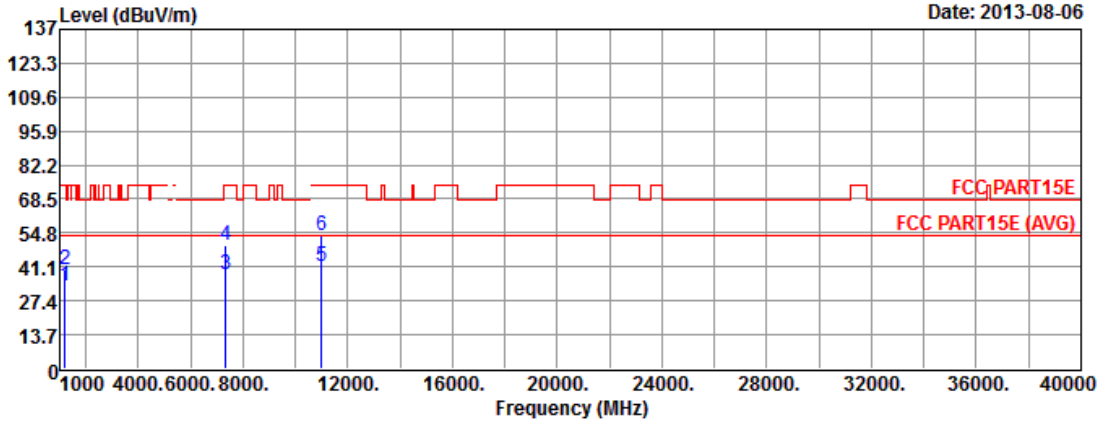
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.38	-19.62	54.00	61.70	27.94	3.42	58.68	---	---	Average
2	1200.00	40.46	-33.54	74.00	67.78	27.94	3.42	58.68	---	---	Peak
3	7331.00	39.40	-14.60	54.00	51.53	36.03	9.86	58.02	---	---	Average
4	7331.00	51.03	-22.97	74.00	63.16	36.03	9.86	58.02	---	---	Peak
5	11000.00	43.14	-10.86	54.00	48.82	38.00	11.81	55.49	---	---	Average
6	11000.00	55.70	-18.30	74.00	61.38	38.00	11.81	55.49	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5500
Operating Mode	1	Polarization	H



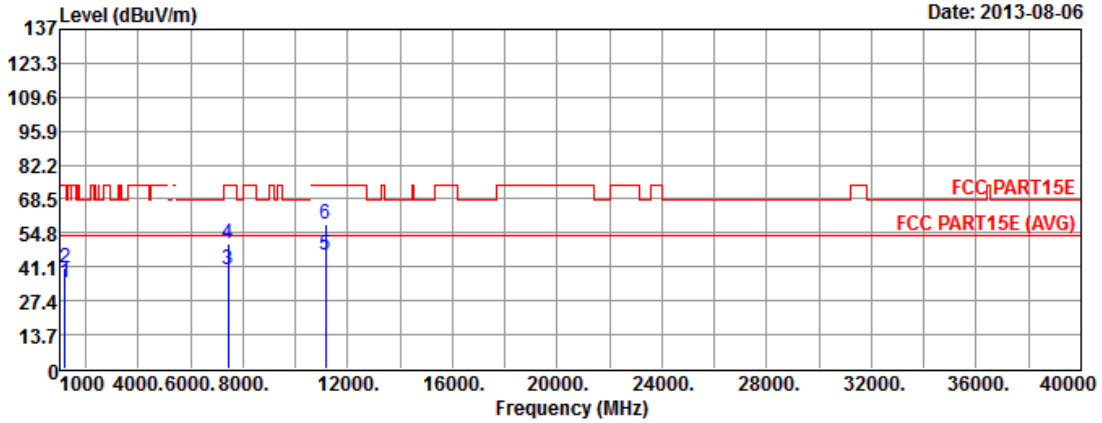
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.35	-20.65	54.00	60.67	27.94	3.42	58.68	---	---	Average
2	1200.00	40.14	-33.86	74.00	67.46	27.94	3.42	58.68	---	---	Peak
3	7331.00	38.12	-15.88	54.00	50.25	36.03	9.86	58.02	---	---	Average
4	7331.00	49.78	-24.22	74.00	61.91	36.03	9.86	58.02	---	---	Peak
5	11000.00	41.40	-12.60	54.00	47.08	38.00	11.81	55.49	---	---	Average
6	11000.00	53.82	-20.18	74.00	59.50	38.00	11.81	55.49	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	V



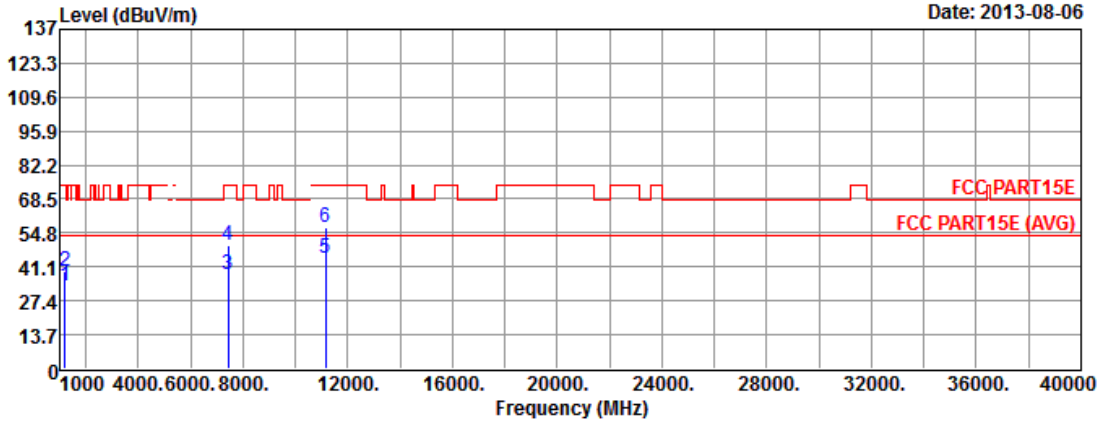
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.42	-19.58	54.00	61.74	27.94	3.42	58.68	---	---	Average
2	1200.00	40.38	-33.62	74.00	67.70	27.94	3.42	58.68	---	---	Peak
3	7438.00	39.75	-14.25	54.00	52.26	36.01	9.68	58.20	---	---	Average
4	7438.00	50.46	-23.54	74.00	62.97	36.01	9.68	58.20	---	---	Peak
5	11160.00	45.83	-8.17	54.00	51.30	38.16	11.77	55.40	---	---	Average
6	11160.00	58.29	-15.71	74.00	63.76	38.16	11.77	55.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	H



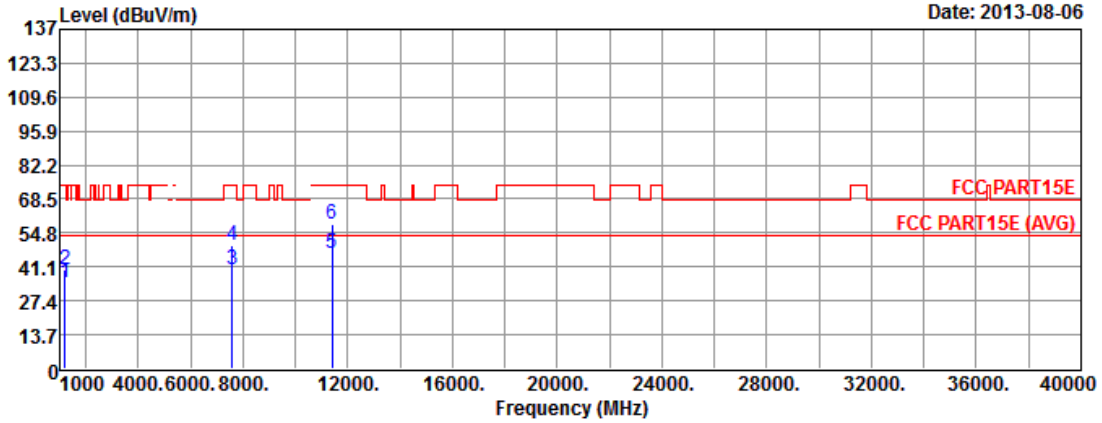
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.32	-20.68	54.00	60.64	27.94	3.42	58.68	---	---	Average
2	1200.00	39.59	-34.41	74.00	66.91	27.94	3.42	58.68	---	---	Peak
3	7438.00	38.34	-15.66	54.00	50.85	36.01	9.68	58.20	---	---	Average
4	7438.00	49.88	-24.12	74.00	62.39	36.01	9.68	58.20	---	---	Peak
5	11160.00	44.64	-9.36	54.00	50.11	38.16	11.77	55.40	---	---	Average
6	11160.00	57.33	-16.67	74.00	62.80	38.16	11.77	55.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5700
Operating Mode	1	Polarization	V



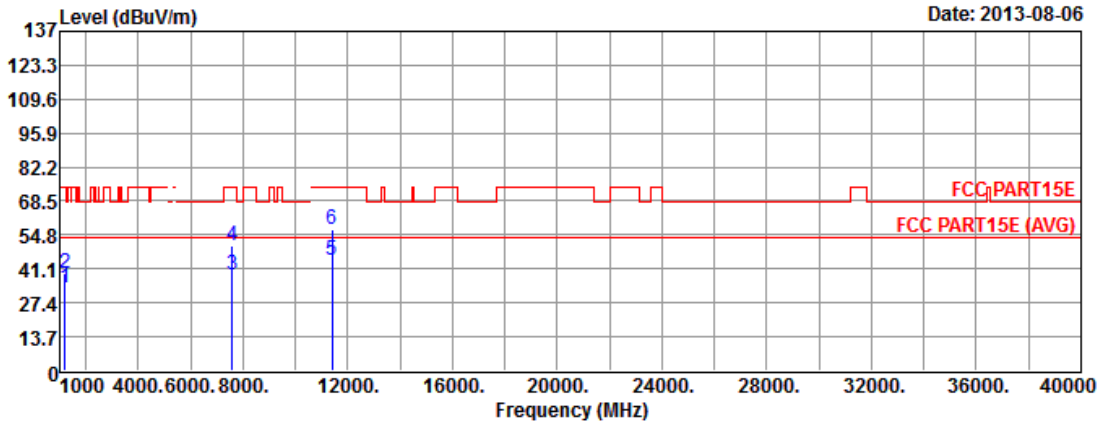
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.42	-19.58	54.00	61.74	27.94	3.42	58.68	---	---	Average
2	1200.00	40.28	-33.72	74.00	67.60	27.94	3.42	58.68	---	---	Peak
3	7598.00	40.28	-13.72	54.00	52.66	36.02	9.85	58.25	---	---	Average
4	7598.00	49.74	-24.26	74.00	62.12	36.02	9.85	58.25	---	---	Peak
5	11400.00	46.28	-7.72	54.00	51.26	38.40	11.88	55.26	---	---	Average
6	11400.00	58.64	-15.36	74.00	63.62	38.40	11.88	55.26	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5700
Operating Mode	1	Polarization	H

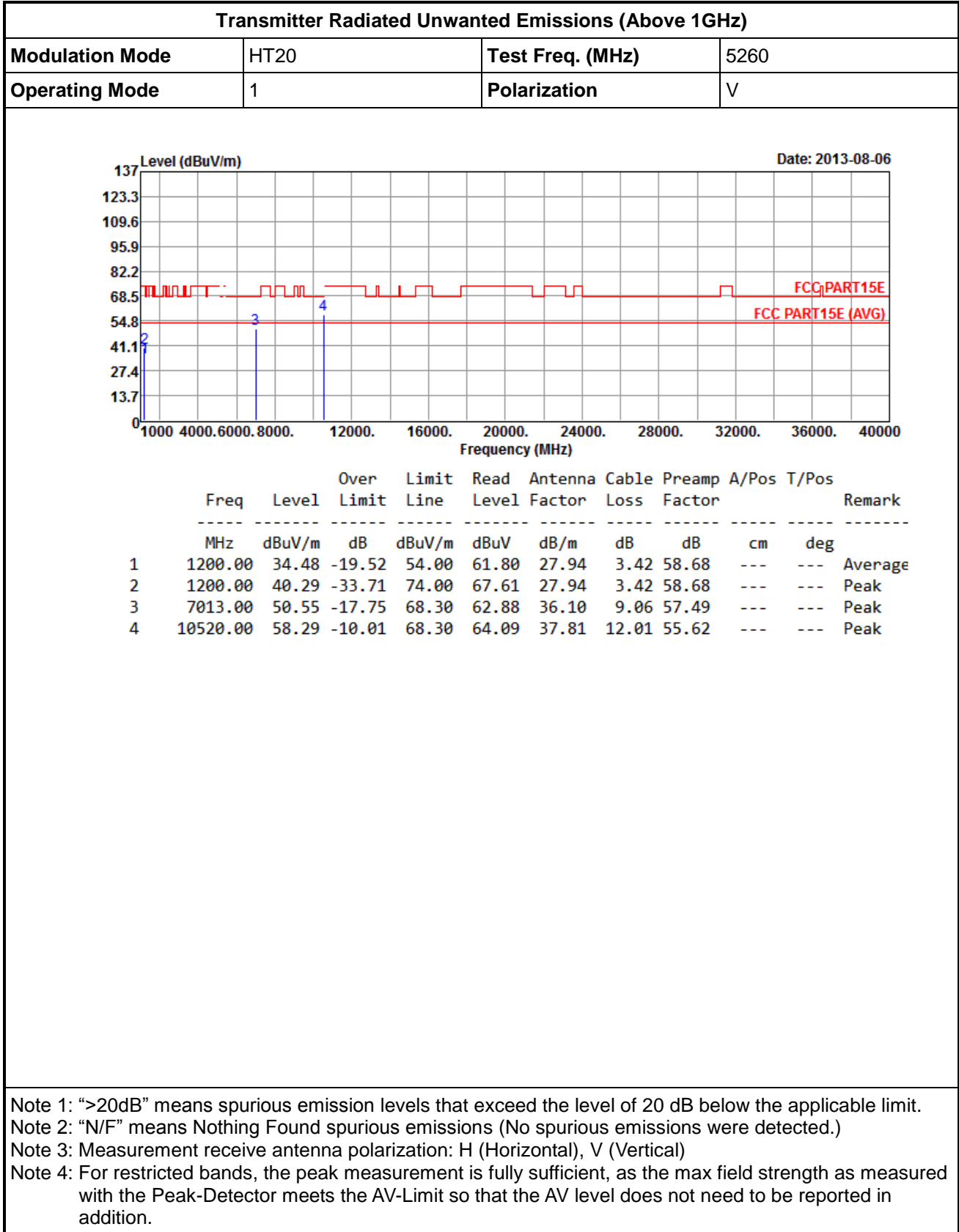


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.35	-20.65	54.00	60.67	27.94	3.42	58.68	---	---	Average
2	1200.00	39.54	-34.46	74.00	66.86	27.94	3.42	58.68	---	---	Peak
3	7598.00	38.47	-15.53	54.00	50.85	36.02	9.85	58.25	---	---	Average
4	7598.00	50.31	-23.69	74.00	62.69	36.02	9.85	58.25	---	---	Peak
5	11400.00	44.58	-9.42	54.00	49.56	38.40	11.88	55.26	---	---	Average
6	11400.00	57.29	-16.71	74.00	62.27	38.40	11.88	55.26	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



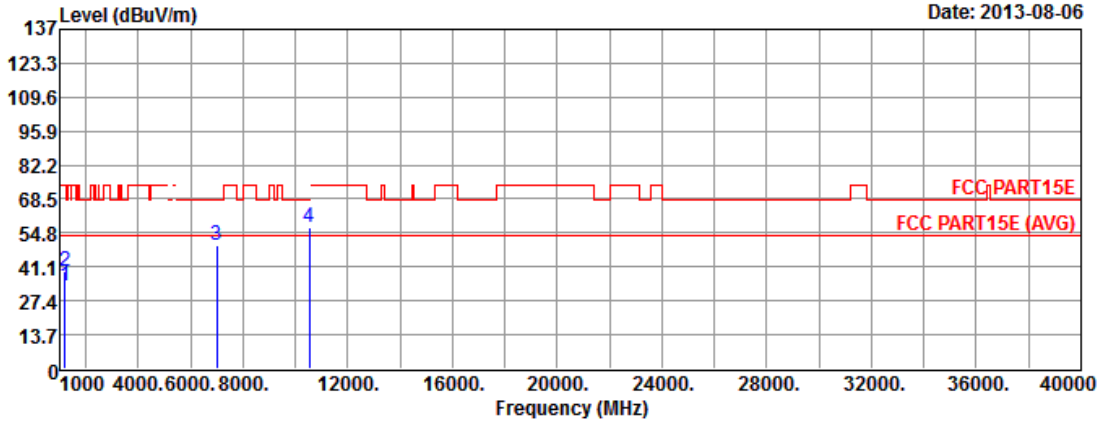
3.7.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20





Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5260
Operating Mode	1	Polarization	H



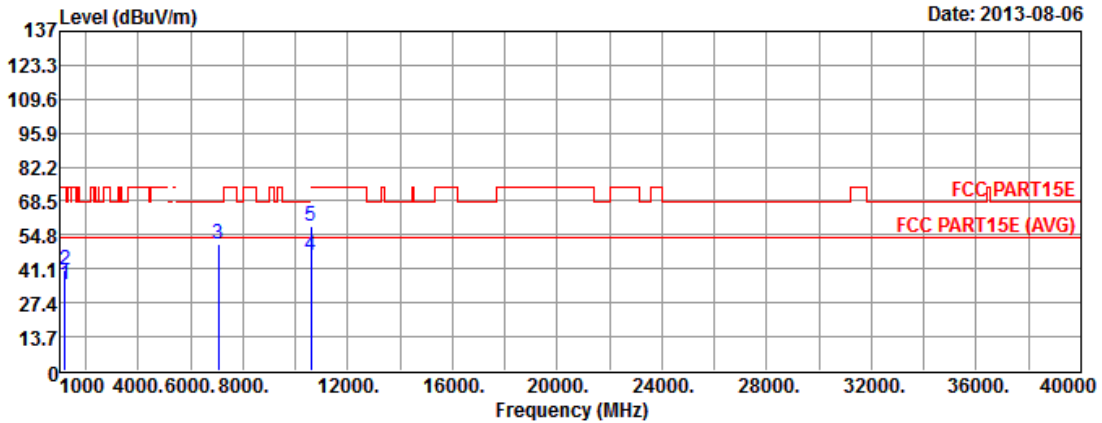
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.27	-20.73	54.00	60.59	27.94	3.42	58.68	---	---	Average
2	1200.00	39.29	-34.71	74.00	66.61	27.94	3.42	58.68	---	---	Peak
3	7013.00	49.54	-18.76	68.30	61.87	36.10	9.06	57.49	---	---	Peak
4	10520.00	56.73	-11.57	68.30	62.53	37.81	12.01	55.62	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
Operating Mode	1	Polarization	V



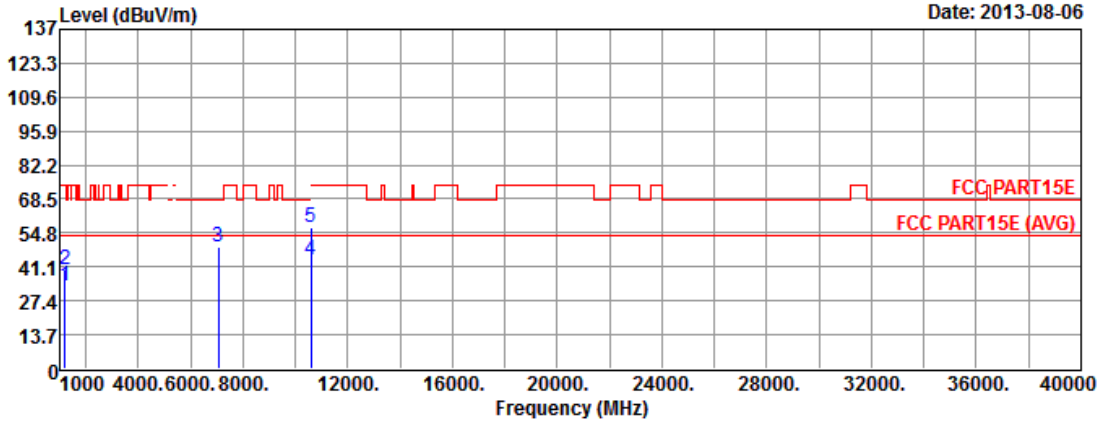
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.57	-19.43	54.00	61.89	27.94	3.42	58.68	---	---	Average
2	1200.00	40.44	-33.56	74.00	67.76	27.94	3.42	58.68	---	---	Peak
3	7064.00	50.84	-17.46	68.30	63.36	36.09	8.97	57.58	---	---	Peak
4	10600.00	46.34	-7.66	54.00	51.97	37.84	12.13	55.60	---	---	Average
5	10600.00	58.42	-15.58	74.00	64.05	37.84	12.13	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
Operating Mode	1	Polarization	H



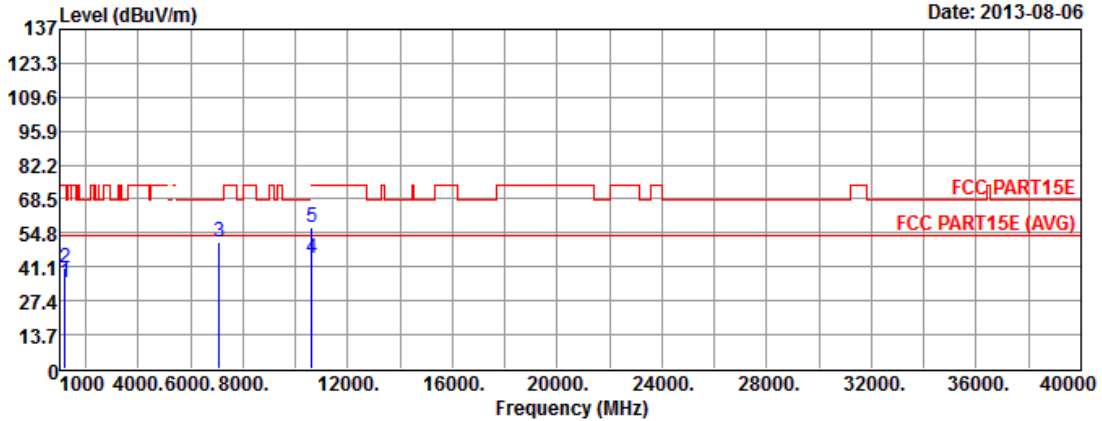
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.12	-20.88	54.00	60.44	27.94	3.42	58.68	---	---	Average
2	1200.00	39.75	-34.25	74.00	67.07	27.94	3.42	58.68	---	---	Peak
3	7064.00	49.48	-18.82	68.30	62.00	36.09	8.97	57.58	---	---	Peak
4	10600.00	44.10	-9.90	54.00	49.73	37.84	12.13	55.60	---	---	Average
5	10600.00	57.29	-16.71	74.00	62.92	37.84	12.13	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
Operating Mode	1	Polarization	V



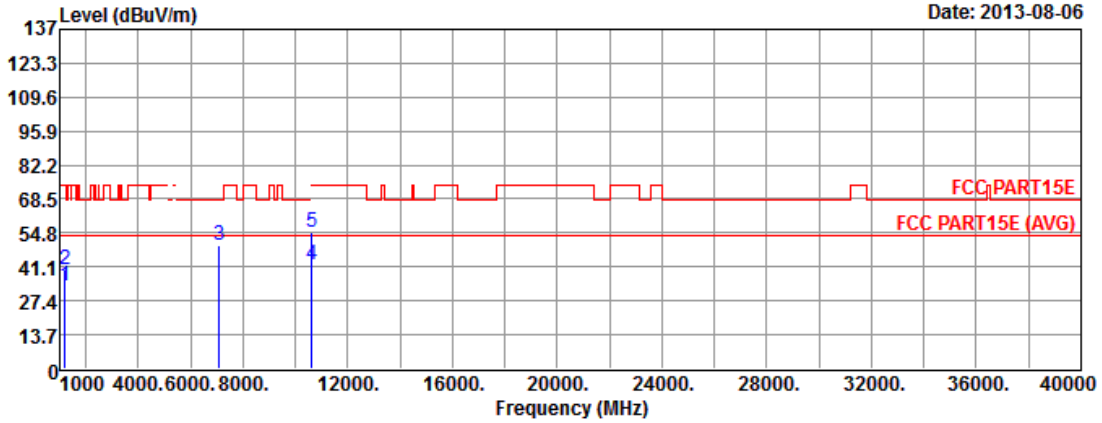
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.64	-19.36	54.00	61.96	27.94	3.42	58.68	---	---	Average
2	1200.00	40.71	-33.29	74.00	68.03	27.94	3.42	58.68	---	---	Peak
3	7091.00	51.38	-16.92	68.30	63.99	36.08	8.93	57.62	---	---	Peak
4	10640.00	44.51	-9.49	54.00	50.09	37.86	12.15	55.59	---	---	Average
5	10640.00	56.95	-17.05	74.00	62.53	37.86	12.15	55.59	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
Operating Mode	1	Polarization	H



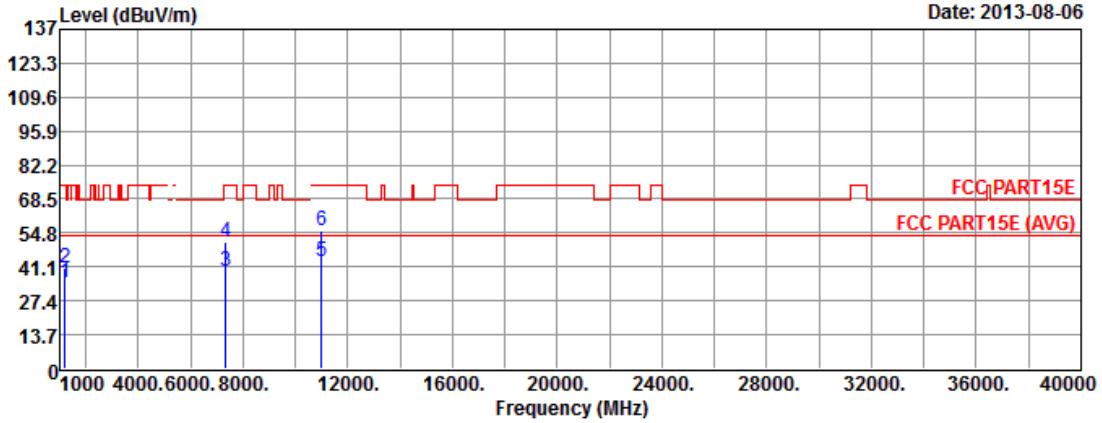
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.27	-20.73	54.00	60.59	27.94	3.42	58.68	---	---	Average
2	1200.00	39.68	-34.32	74.00	67.00	27.94	3.42	58.68	---	---	Peak
3	7091.00	50.11	-18.19	68.30	62.72	36.08	8.93	57.62	---	---	Peak
4	10640.00	42.27	-11.73	54.00	47.85	37.86	12.15	55.59	---	---	Average
5	10640.00	55.37	-18.63	74.00	60.95	37.86	12.15	55.59	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
Operating Mode	1	Polarization	V



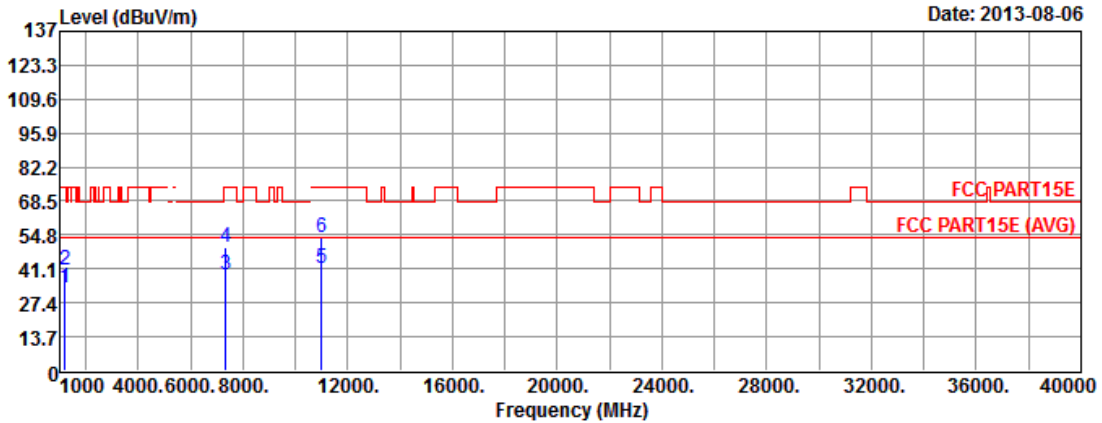
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.48	-19.52	54.00	61.80	27.94	3.42	58.68	---	---	Average
2	1200.00	40.59	-33.41	74.00	67.91	27.94	3.42	58.68	---	---	Peak
3	7331.00	39.55	-14.45	54.00	51.68	36.03	9.86	58.02	---	---	Average
4	7331.00	51.39	-22.61	74.00	63.52	36.03	9.86	58.02	---	---	Peak
5	11000.00	43.49	-10.51	54.00	49.17	38.00	11.81	55.49	---	---	Average
6	11000.00	55.67	-18.33	74.00	61.35	38.00	11.81	55.49	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
Operating Mode	1	Polarization	H



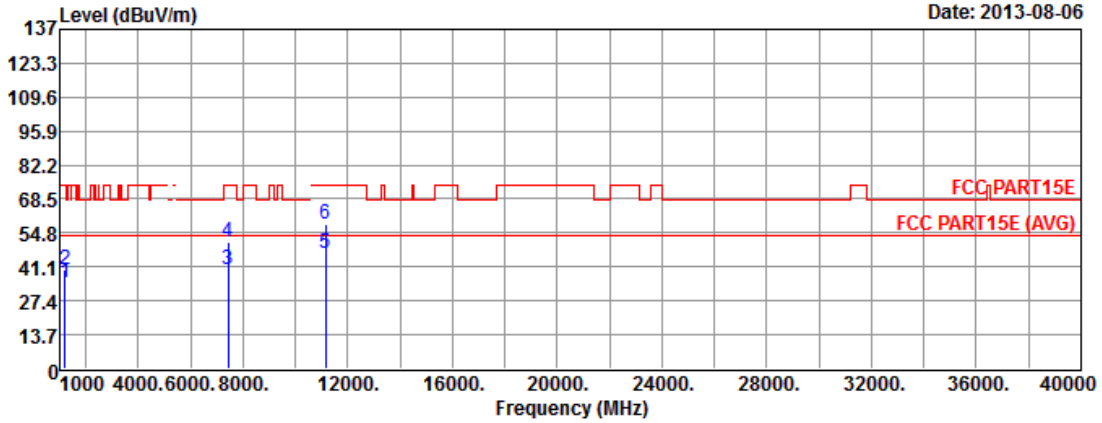
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.58	-20.42	54.00	60.90	27.94	3.42	58.68	---	---	Average
2	1200.00	40.47	-33.53	74.00	67.79	27.94	3.42	58.68	---	---	Peak
3	7331.00	38.38	-15.62	54.00	50.51	36.03	9.86	58.02	---	---	Average
4	7331.00	49.94	-24.06	74.00	62.07	36.03	9.86	58.02	---	---	Peak
5	11000.00	41.57	-12.43	54.00	47.25	38.00	11.81	55.49	---	---	Average
6	11000.00	53.81	-20.19	74.00	59.49	38.00	11.81	55.49	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	V



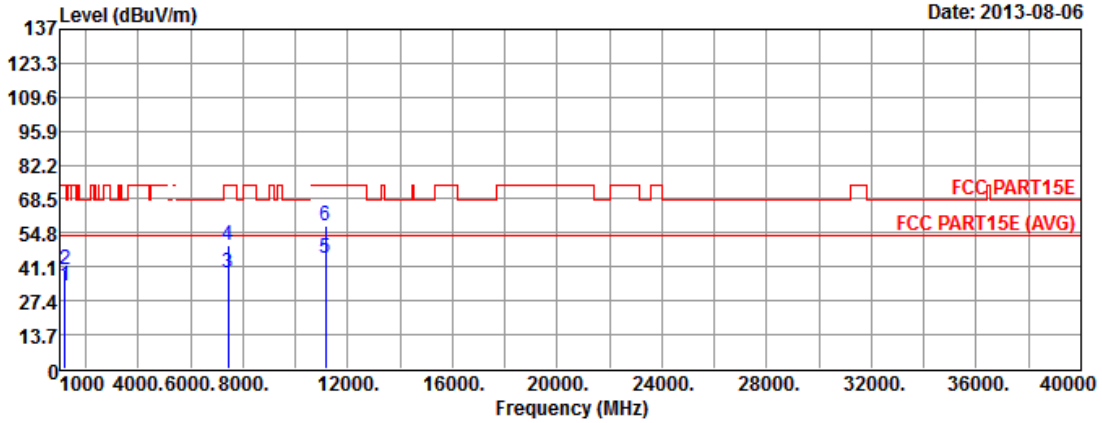
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.58	-19.42	54.00	61.90	27.94	3.42	58.68	---	---	Average
2	1200.00	40.24	-33.76	74.00	67.56	27.94	3.42	58.68	---	---	Peak
3	7438.00	39.69	-14.31	54.00	52.20	36.01	9.68	58.20	---	---	Average
4	7438.00	50.94	-23.06	74.00	63.45	36.01	9.68	58.20	---	---	Peak
5	11160.00	46.24	-7.76	54.00	51.71	38.16	11.77	55.40	---	---	Average
6	11160.00	58.66	-15.34	74.00	64.13	38.16	11.77	55.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	H



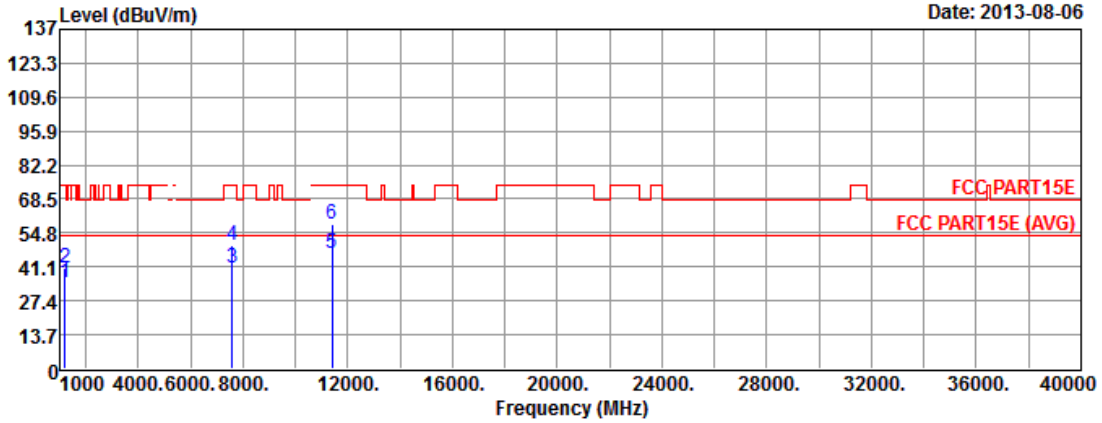
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.61	-20.39	54.00	60.93	27.94	3.42	58.68	---	---	Average
2	1200.00	39.84	-34.16	74.00	67.16	27.94	3.42	58.68	---	---	Peak
3	7438.00	38.44	-15.56	54.00	50.95	36.01	9.68	58.20	---	---	Average
4	7438.00	49.95	-24.05	74.00	62.46	36.01	9.68	58.20	---	---	Peak
5	11160.00	44.53	-9.47	54.00	50.00	38.16	11.77	55.40	---	---	Average
6	11160.00	57.47	-16.53	74.00	62.94	38.16	11.77	55.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
Operating Mode	1	Polarization	V



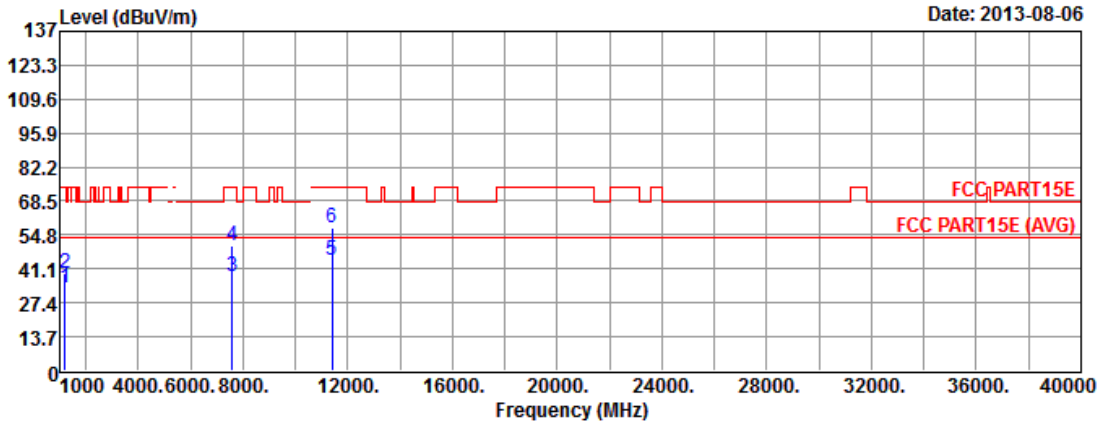
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.77	-19.23	54.00	62.09	27.94	3.42	58.68	---	---	Average
2	1200.00	40.64	-33.36	74.00	67.96	27.94	3.42	58.68	---	---	Peak
3	7598.00	40.50	-13.50	54.00	52.88	36.02	9.85	58.25	---	---	Average
4	7598.00	49.78	-24.22	74.00	62.16	36.02	9.85	58.25	---	---	Peak
5	11400.00	46.35	-7.65	54.00	51.33	38.40	11.88	55.26	---	---	Average
6	11400.00	58.54	-15.46	74.00	63.52	38.40	11.88	55.26	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
Operating Mode	1	Polarization	H



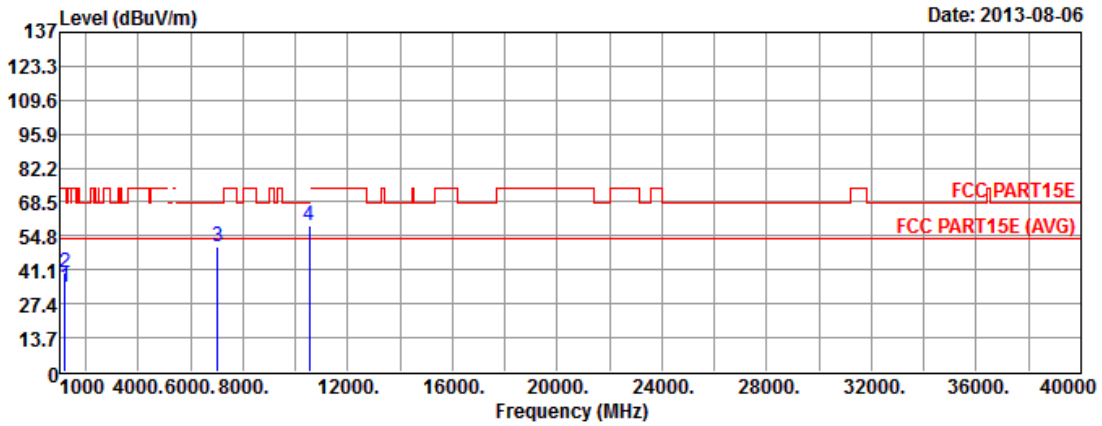
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.57	-20.43	54.00	60.89	27.94	3.42	58.68	---	---	Average
2	1200.00	39.64	-34.36	74.00	66.96	27.94	3.42	58.68	---	---	Peak
3	7598.00	38.28	-15.72	54.00	50.66	36.02	9.85	58.25	---	---	Average
4	7598.00	50.28	-23.72	74.00	62.66	36.02	9.85	58.25	---	---	Peak
5	11400.00	44.53	-9.47	54.00	49.51	38.40	11.88	55.26	---	---	Average
6	11400.00	57.39	-16.61	74.00	62.37	38.40	11.88	55.26	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



3.7.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	Test Freq. (MHz)	5270
Operating Mode	1	Polarization	V



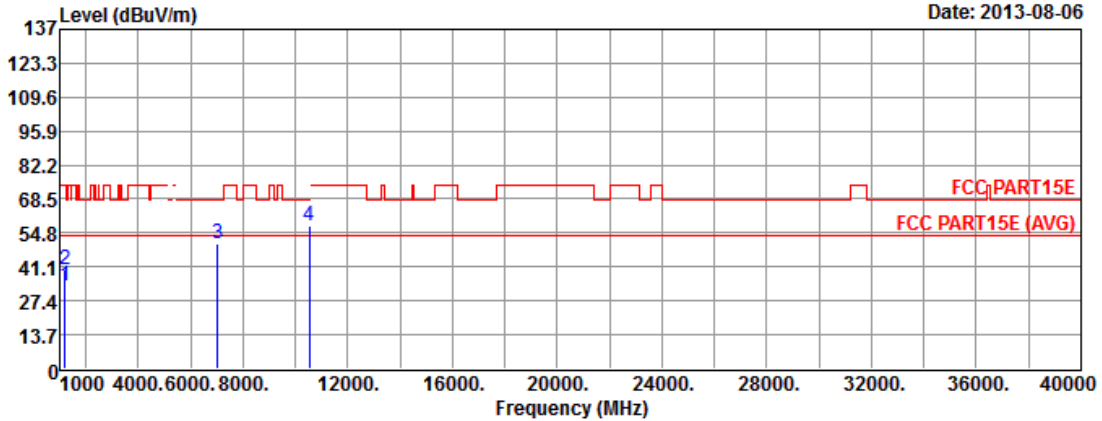
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.22	-19.78	54.00	61.54	27.94	3.42	58.68	---	---	Average
2	1200.00	40.29	-33.71	74.00	67.61	27.94	3.42	58.68	---	---	Peak
3	7024.00	50.67	-17.63	68.30	63.04	36.10	9.04	57.51	---	---	Peak
4	10540.00	58.88	-9.42	68.30	64.64	37.82	12.04	55.62	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5270
Operating Mode	1	Polarization	H



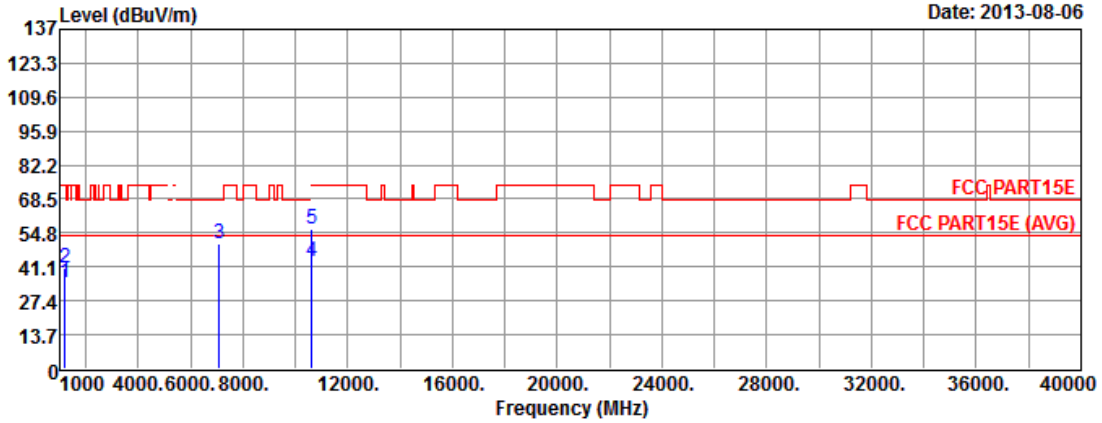
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.48	-20.52	54.00	60.80	27.94	3.42	58.68	---	---	Average
2	1200.00	39.66	-34.34	74.00	66.98	27.94	3.42	58.68	---	---	Peak
3	7024.00	50.59	-17.71	68.30	62.96	36.10	9.04	57.51	---	---	Peak
4	10540.00	57.47	-10.83	68.30	63.23	37.82	12.04	55.62	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
Operating Mode	1	Polarization	V



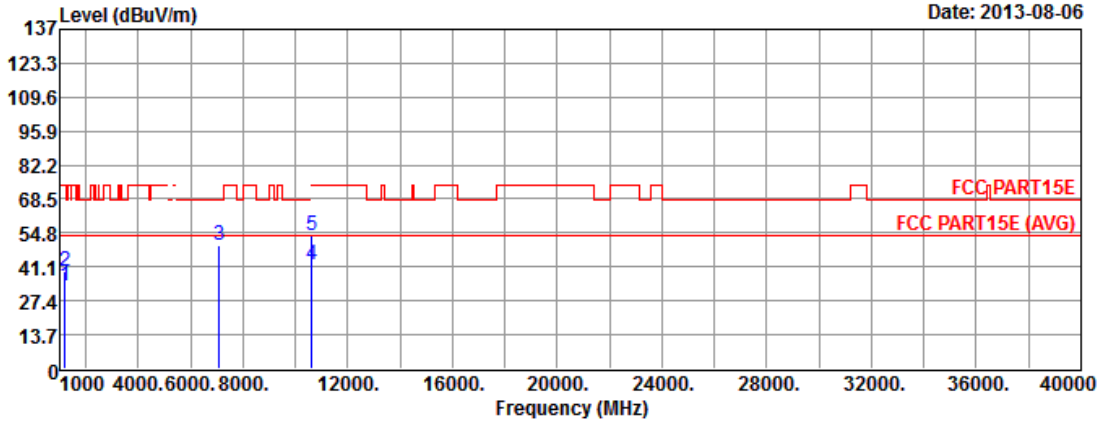
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.48	-19.52	54.00	61.80	27.94	3.42	58.68	---	---	Average
2	1200.00	40.36	-33.64	74.00	67.68	27.94	3.42	58.68	---	---	Peak
3	7078.00	50.57	-17.73	68.30	63.14	36.08	8.95	57.60	---	---	Peak
4	10620.00	43.05	-10.95	54.00	48.66	37.85	12.14	55.60	---	---	Average
5	10620.00	56.29	-17.71	74.00	61.90	37.85	12.14	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
Operating Mode	1	Polarization	H



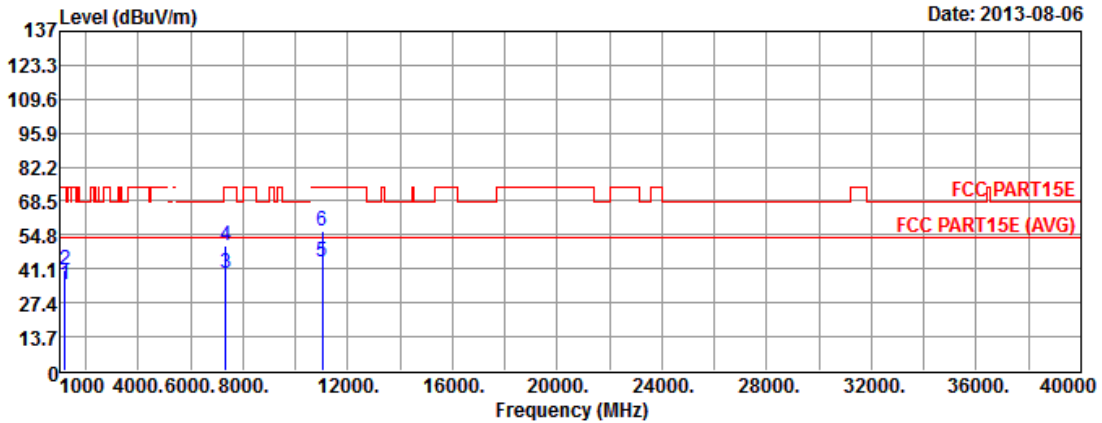
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.24	-20.76	54.00	60.56	27.94	3.42	58.68	---	---	Average
2	1200.00	39.58	-34.42	74.00	66.90	27.94	3.42	58.68	---	---	Peak
3	7078.00	49.67	-18.63	68.30	62.24	36.08	8.95	57.60	---	---	Peak
4	10620.00	41.96	-12.04	54.00	47.57	37.85	12.14	55.60	---	---	Average
5	10620.00	53.78	-20.22	74.00	59.39	37.85	12.14	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
Operating Mode	1	Polarization	V



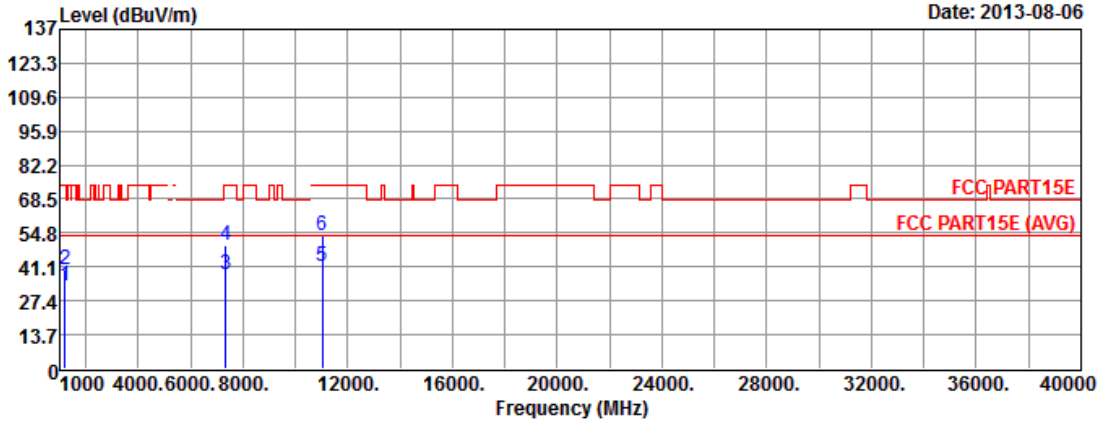
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.47	-19.53	54.00	61.79	27.94	3.42	58.68	---	---	Average
2	1200.00	40.48	-33.52	74.00	67.80	27.94	3.42	58.68	---	---	Peak
3	7344.00	39.62	-14.38	54.00	51.79	36.03	9.84	58.04	---	---	Average
4	7344.00	50.42	-23.58	74.00	62.59	36.03	9.84	58.04	---	---	Peak
5	11020.00	43.67	-10.33	54.00	49.40	38.02	11.73	55.48	---	---	Average
6	11020.00	56.19	-17.81	74.00	61.92	38.02	11.73	55.48	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
Operating Mode	1	Polarization	H



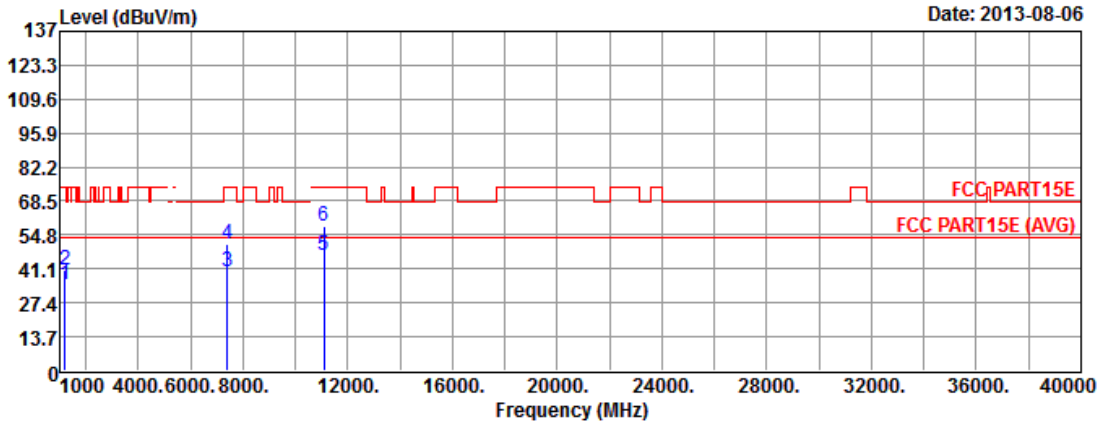
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.29	-20.71	54.00	60.61	27.94	3.42	58.68	---	---	Average
2	1200.00	39.74	-34.26	74.00	67.06	27.94	3.42	58.68	---	---	Peak
3	7344.00	37.99	-16.01	54.00	50.16	36.03	9.84	58.04	---	---	Average
4	7344.00	49.67	-24.33	74.00	61.84	36.03	9.84	58.04	---	---	Peak
5	11020.00	41.38	-12.62	54.00	47.11	38.02	11.73	55.48	---	---	Average
6	11020.00	53.57	-20.43	74.00	59.30	38.02	11.73	55.48	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
Operating Mode	1	Polarization	V



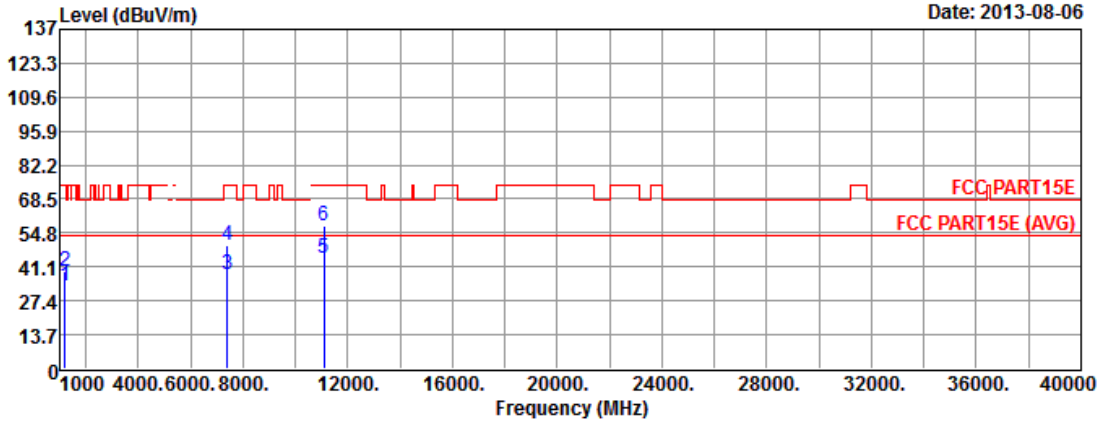
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.74	-19.26	54.00	62.06	27.94	3.42	58.68	---	---	Average
2	1200.00	40.84	-33.16	74.00	68.16	27.94	3.42	58.68	---	---	Peak
3	7398.00	39.78	-14.22	54.00	52.13	36.02	9.76	58.13	---	---	Average
4	7398.00	51.26	-22.74	74.00	63.61	36.02	9.76	58.13	---	---	Peak
5	11100.00	46.27	-7.73	54.00	52.17	38.10	11.43	55.43	---	---	Average
6	11100.00	58.56	-15.44	74.00	64.46	38.10	11.43	55.43	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
Operating Mode	1	Polarization	H



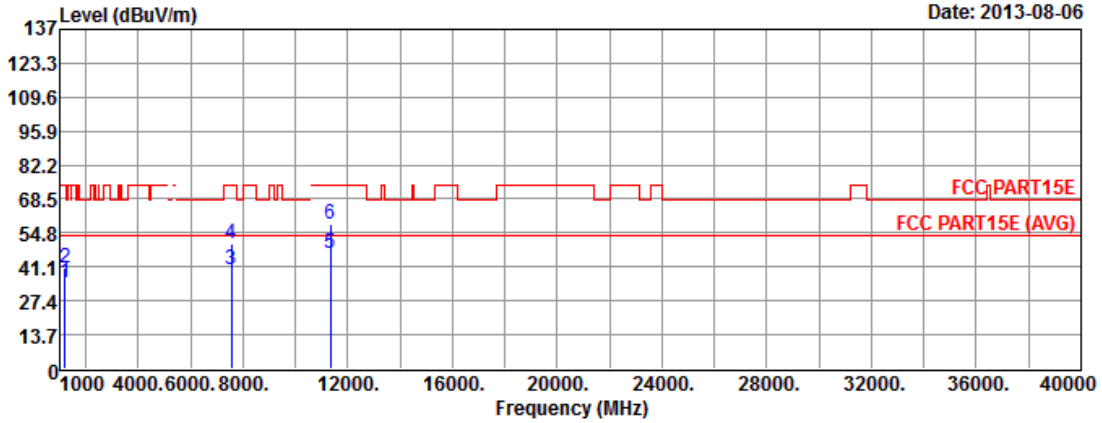
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.31	-20.69	54.00	60.63	27.94	3.42	58.68	---	---	Average
2	1200.00	39.57	-34.43	74.00	66.89	27.94	3.42	58.68	---	---	Peak
3	7398.00	38.30	-15.70	54.00	50.65	36.02	9.76	58.13	---	---	Average
4	7398.00	49.78	-24.22	74.00	62.13	36.02	9.76	58.13	---	---	Peak
5	11100.00	44.55	-9.45	54.00	50.45	38.10	11.43	55.43	---	---	Average
6	11100.00	57.38	-16.62	74.00	63.28	38.10	11.43	55.43	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
Operating Mode	1	Polarization	V



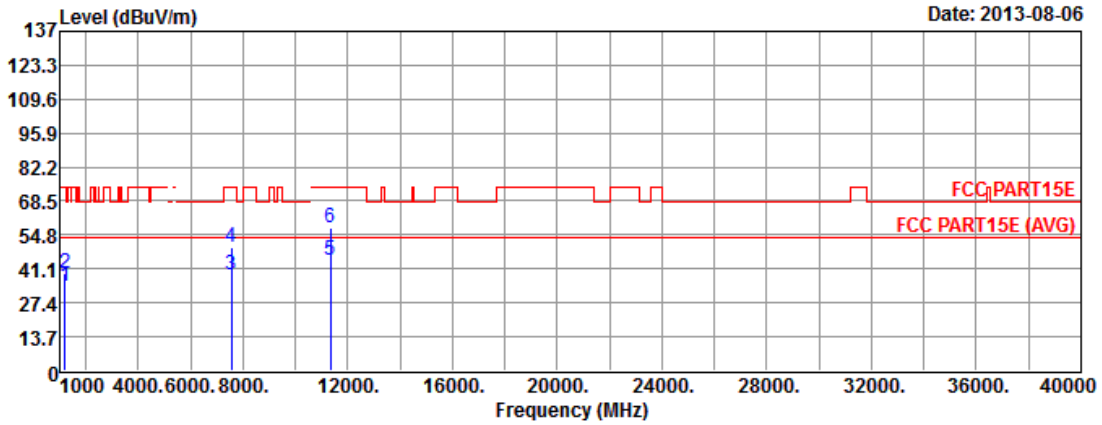
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.52	-19.48	54.00	61.84	27.94	3.42	58.68	---	---	Average
2	1200.00	40.66	-33.34	74.00	67.98	27.94	3.42	58.68	---	---	Peak
3	7558.00	39.91	-14.09	54.00	52.44	36.01	9.73	58.27	---	---	Average
4	7558.00	50.75	-23.25	74.00	63.28	36.01	9.73	58.27	---	---	Peak
5	11340.00	46.36	-7.64	54.00	51.33	38.34	11.98	55.29	---	---	Average
6	11340.00	58.58	-15.42	74.00	63.55	38.34	11.98	55.29	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
Operating Mode	1	Polarization	H

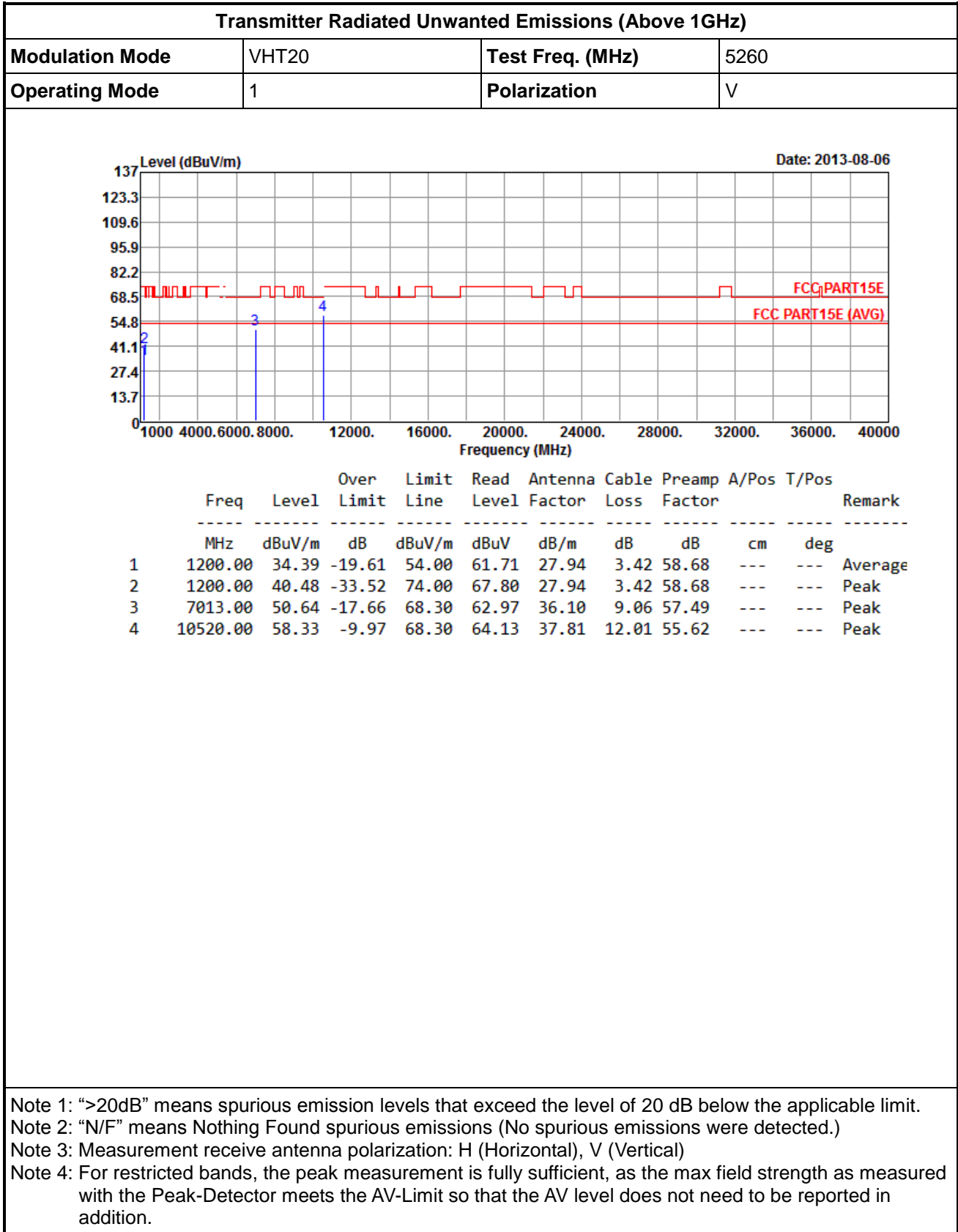


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.81	-20.19	54.00	61.13	27.94	3.42	58.68	---	---	Average
2	1200.00	39.57	-34.43	74.00	66.89	27.94	3.42	58.68	---	---	Peak
3	7558.00	38.75	-15.25	54.00	51.28	36.01	9.73	58.27	---	---	Average
4	7558.00	49.64	-24.36	74.00	62.17	36.01	9.73	58.27	---	---	Peak
5	11340.00	44.43	-9.57	54.00	49.40	38.34	11.98	55.29	---	---	Average
6	11340.00	57.37	-16.63	74.00	62.34	38.34	11.98	55.29	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



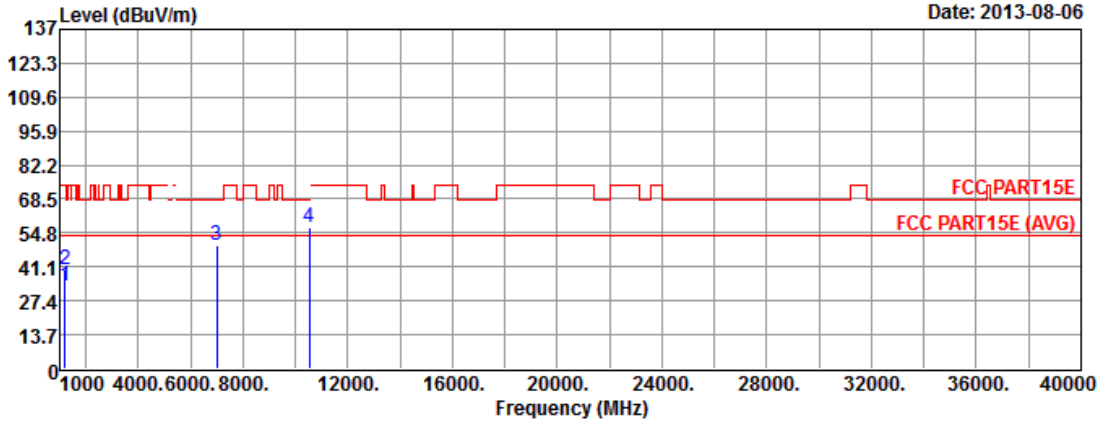
3.7.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20





Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5260
Operating Mode	1	Polarization	H



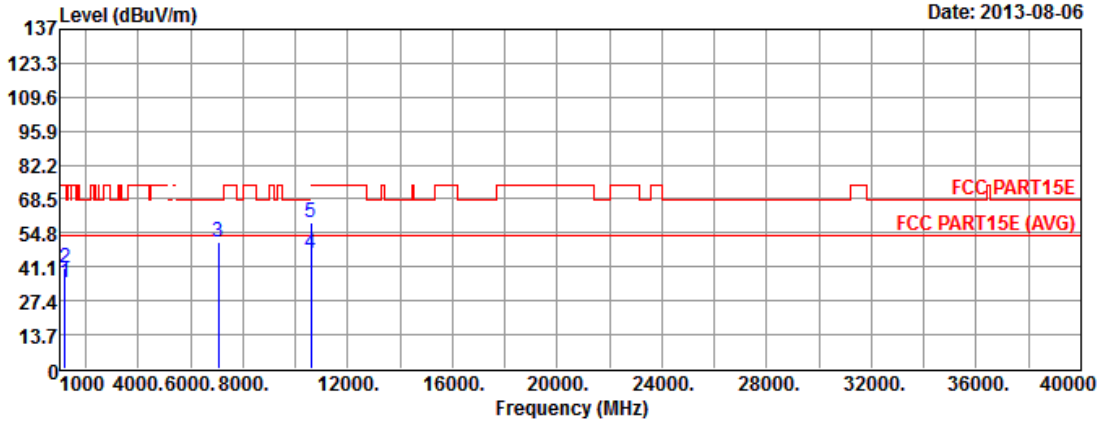
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.20	-20.80	54.00	60.52	27.94	3.42	58.68	---	---	Average
2	1200.00	39.67	-34.33	74.00	66.99	27.94	3.42	58.68	---	---	Peak
3	7013.00	49.96	-18.34	68.30	62.29	36.10	9.06	57.49	---	---	Peak
4	10520.00	57.08	-11.22	68.30	62.88	37.81	12.01	55.62	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5300
Operating Mode	1	Polarization	V



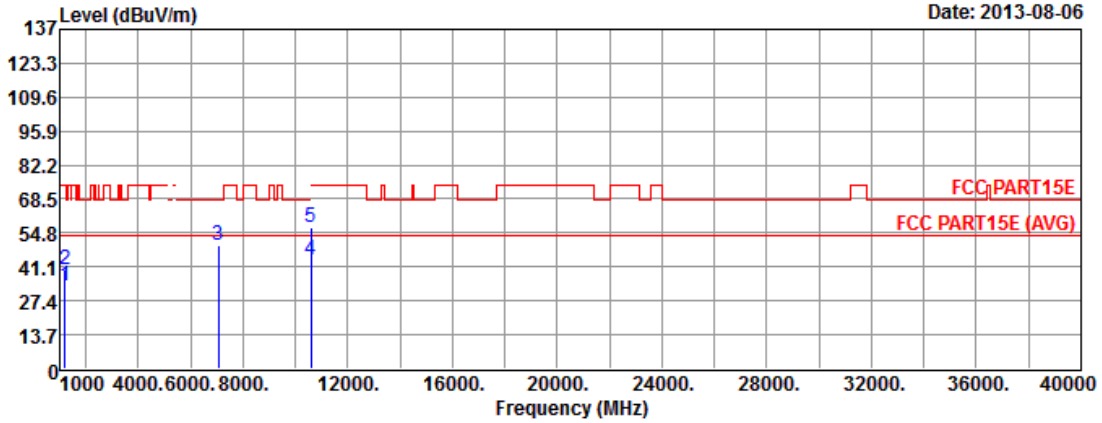
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.85	-19.15	54.00	62.17	27.94	3.42	58.68	---	---	Average
2	1200.00	40.66	-33.34	74.00	67.98	27.94	3.42	58.68	---	---	Peak
3	7064.00	51.15	-17.15	68.30	63.67	36.09	8.97	57.58	---	---	Peak
4	10600.00	46.47	-7.53	54.00	52.10	37.84	12.13	55.60	---	---	Average
5	10600.00	58.67	-15.33	74.00	64.30	37.84	12.13	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5300
Operating Mode	1	Polarization	H



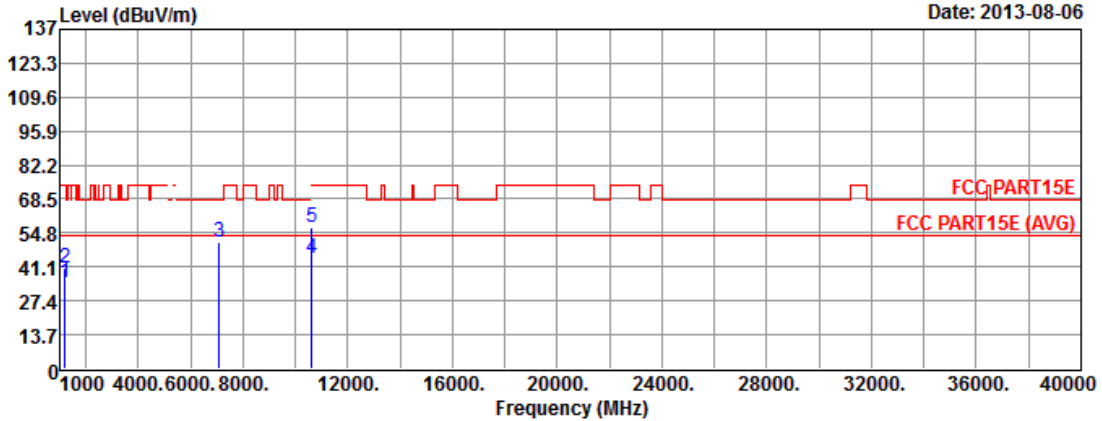
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.36	-20.64	54.00	60.68	27.94	3.42	58.68	---	---	Average
2	1200.00	39.71	-34.29	74.00	67.03	27.94	3.42	58.68	---	---	Peak
3	7064.00	49.87	-18.43	68.30	62.39	36.09	8.97	57.58	---	---	Peak
4	10600.00	44.21	-9.79	54.00	49.84	37.84	12.13	55.60	---	---	Average
5	10600.00	56.81	-17.19	74.00	62.44	37.84	12.13	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5320
Operating Mode	1	Polarization	V



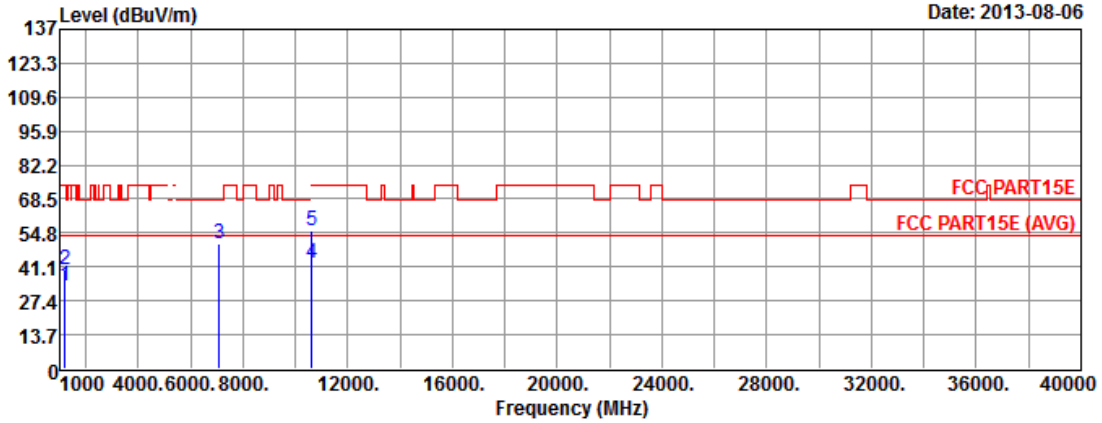
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.64	-19.36	54.00	61.96	27.94	3.42	58.68	---	---	Average
2	1200.00	40.77	-33.23	74.00	68.09	27.94	3.42	58.68	---	---	Peak
3	7091.00	51.39	-16.91	68.30	64.00	36.08	8.93	57.62	---	---	Peak
4	10640.00	44.51	-9.49	54.00	50.09	37.86	12.15	55.59	---	---	Average
5	10640.00	56.95	-17.05	74.00	62.53	37.86	12.15	55.59	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5320
Operating Mode	1	Polarization	H



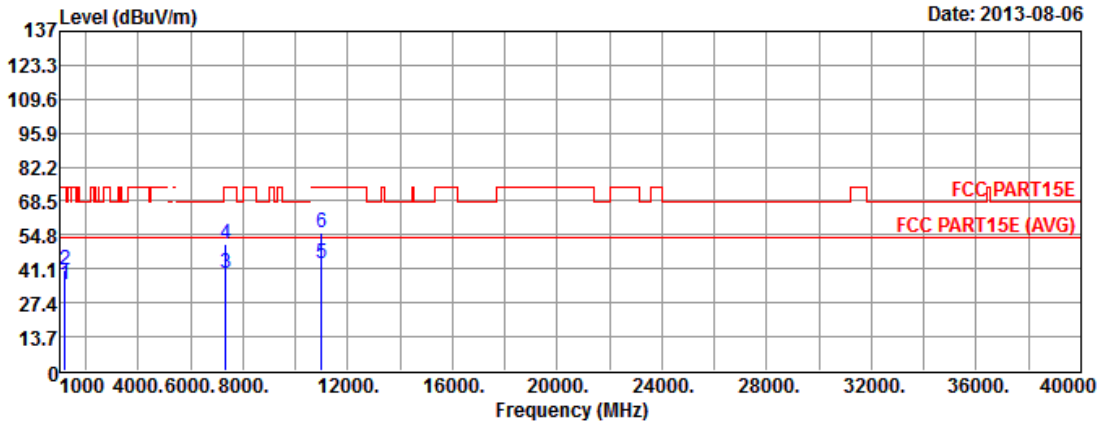
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.50	-20.50	54.00	60.82	27.94	3.42	58.68	---	---	Average
2	1200.00	39.94	-34.06	74.00	67.26	27.94	3.42	58.68	---	---	Peak
3	7091.00	50.37	-17.93	68.30	62.98	36.08	8.93	57.62	---	---	Peak
4	10640.00	42.58	-11.42	54.00	48.16	37.86	12.15	55.59	---	---	Average
5	10640.00	55.42	-18.58	74.00	61.00	37.86	12.15	55.59	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5500
Operating Mode	1	Polarization	V



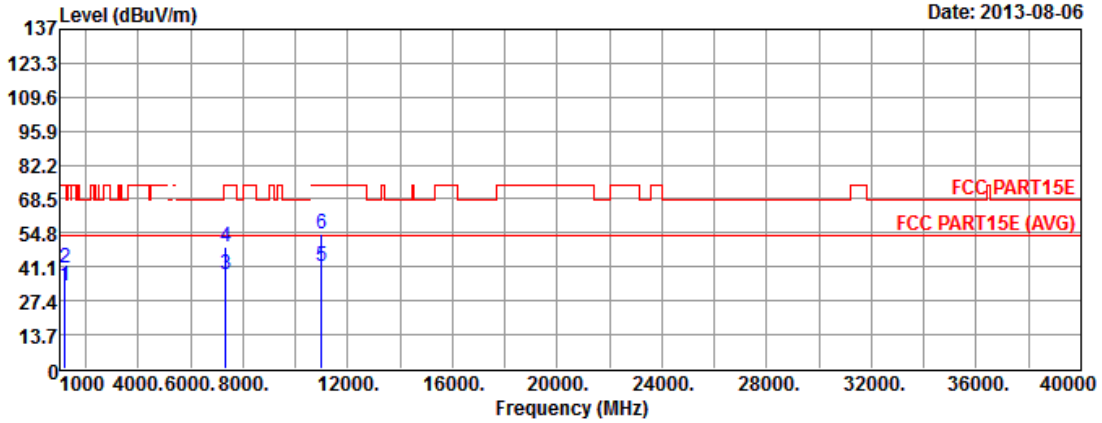
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.64	-19.36	54.00	61.96	27.94	3.42	58.68	---	---	Average
2	1200.00	40.87	-33.13	74.00	68.19	27.94	3.42	58.68	---	---	Peak
3	7331.00	39.24	-14.76	54.00	51.37	36.03	9.86	58.02	---	---	Average
4	7331.00	51.41	-22.59	74.00	63.54	36.03	9.86	58.02	---	---	Peak
5	11000.00	43.42	-10.58	54.00	49.10	38.00	11.81	55.49	---	---	Average
6	11000.00	56.04	-17.96	74.00	61.72	38.00	11.81	55.49	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5500
Operating Mode	1	Polarization	H



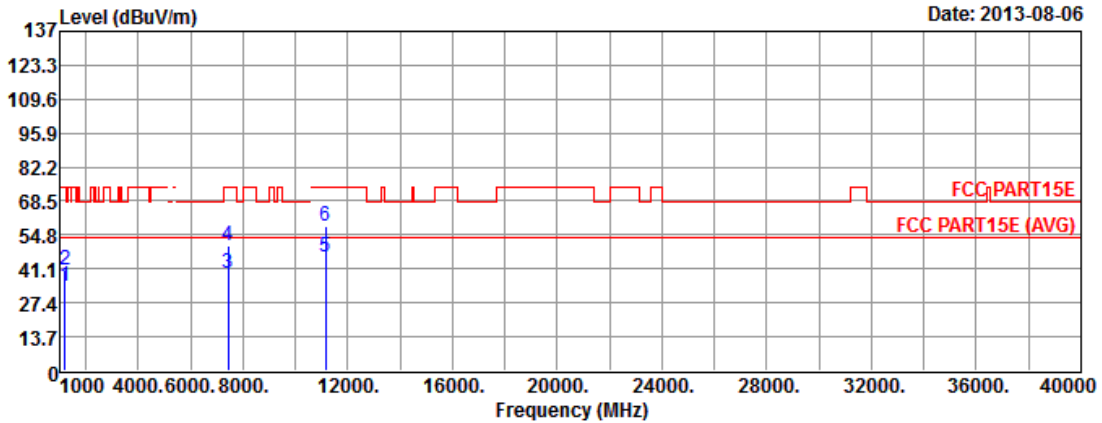
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.65	-20.35	54.00	60.97	27.94	3.42	58.68	---	---	Average
2	1200.00	40.47	-33.53	74.00	67.79	27.94	3.42	58.68	---	---	Peak
3	7331.00	38.31	-15.69	54.00	50.44	36.03	9.86	58.02	---	---	Average
4	7331.00	49.44	-24.56	74.00	61.57	36.03	9.86	58.02	---	---	Peak
5	11000.00	41.42	-12.58	54.00	47.10	38.00	11.81	55.49	---	---	Average
6	11000.00	54.27	-19.73	74.00	59.95	38.00	11.81	55.49	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	V



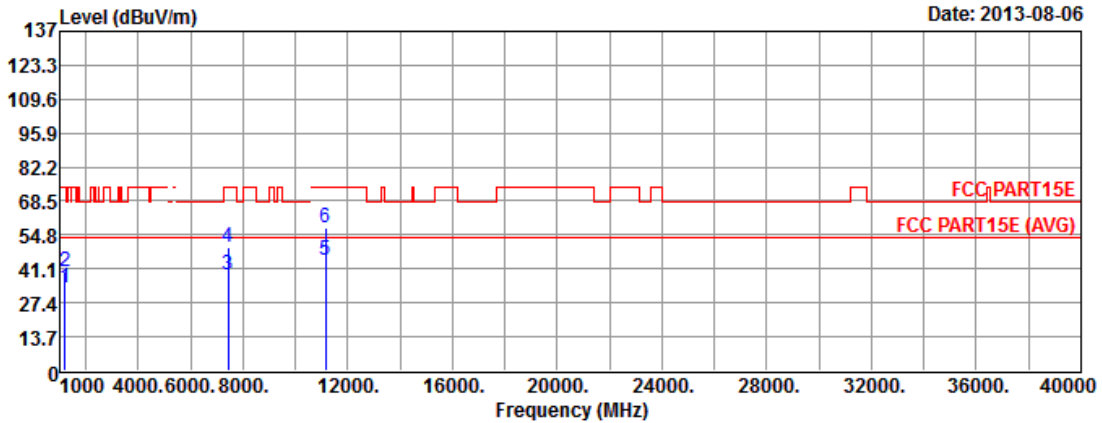
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.24	-19.76	54.00	61.56	27.94	3.42	58.68	---	---	Average
2	1200.00	40.41	-33.59	74.00	67.73	27.94	3.42	58.68	---	---	Peak
3	7438.00	39.46	-14.54	54.00	51.97	36.01	9.68	58.20	---	---	Average
4	7438.00	50.28	-23.72	74.00	62.79	36.01	9.68	58.20	---	---	Peak
5	11160.00	46.01	-7.99	54.00	51.48	38.16	11.77	55.40	---	---	Average
6	11160.00	58.17	-15.83	74.00	63.64	38.16	11.77	55.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5580
Operating Mode	1	Polarization	H



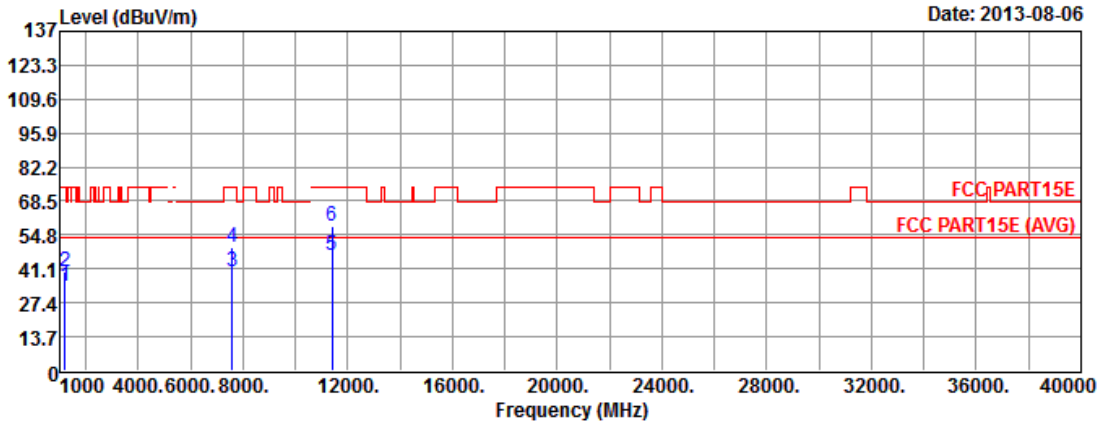
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.49	-20.51	54.00	60.81	27.94	3.42	58.68	---	---	Average
2	1200.00	39.94	-34.06	74.00	67.26	27.94	3.42	58.68	---	---	Peak
3	7438.00	38.58	-15.42	54.00	51.09	36.01	9.68	58.20	---	---	Average
4	7438.00	49.94	-24.06	74.00	62.45	36.01	9.68	58.20	---	---	Peak
5	11160.00	44.28	-9.72	54.00	49.75	38.16	11.77	55.40	---	---	Average
6	11160.00	57.47	-16.53	74.00	62.94	38.16	11.77	55.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5700
Operating Mode	1	Polarization	V



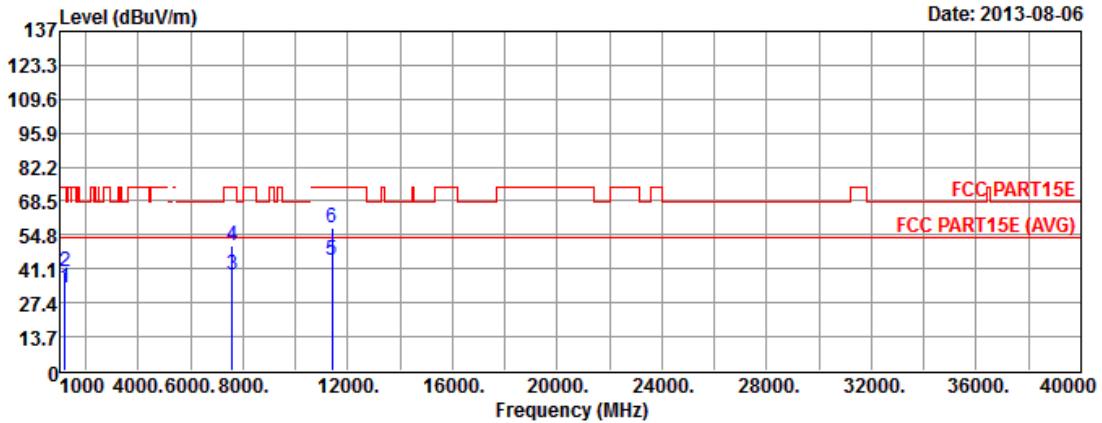
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.27	-19.73	54.00	61.59	27.94	3.42	58.68	---	---	Average
2	1200.00	40.23	-33.77	74.00	67.55	27.94	3.42	58.68	---	---	Peak
3	7598.00	40.19	-13.81	54.00	52.57	36.02	9.85	58.25	---	---	Average
4	7598.00	49.72	-24.28	74.00	62.10	36.02	9.85	58.25	---	---	Peak
5	11400.00	46.41	-7.59	54.00	51.39	38.40	11.88	55.26	---	---	Average
6	11400.00	58.58	-15.42	74.00	63.56	38.40	11.88	55.26	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5700
Operating Mode	1	Polarization	H

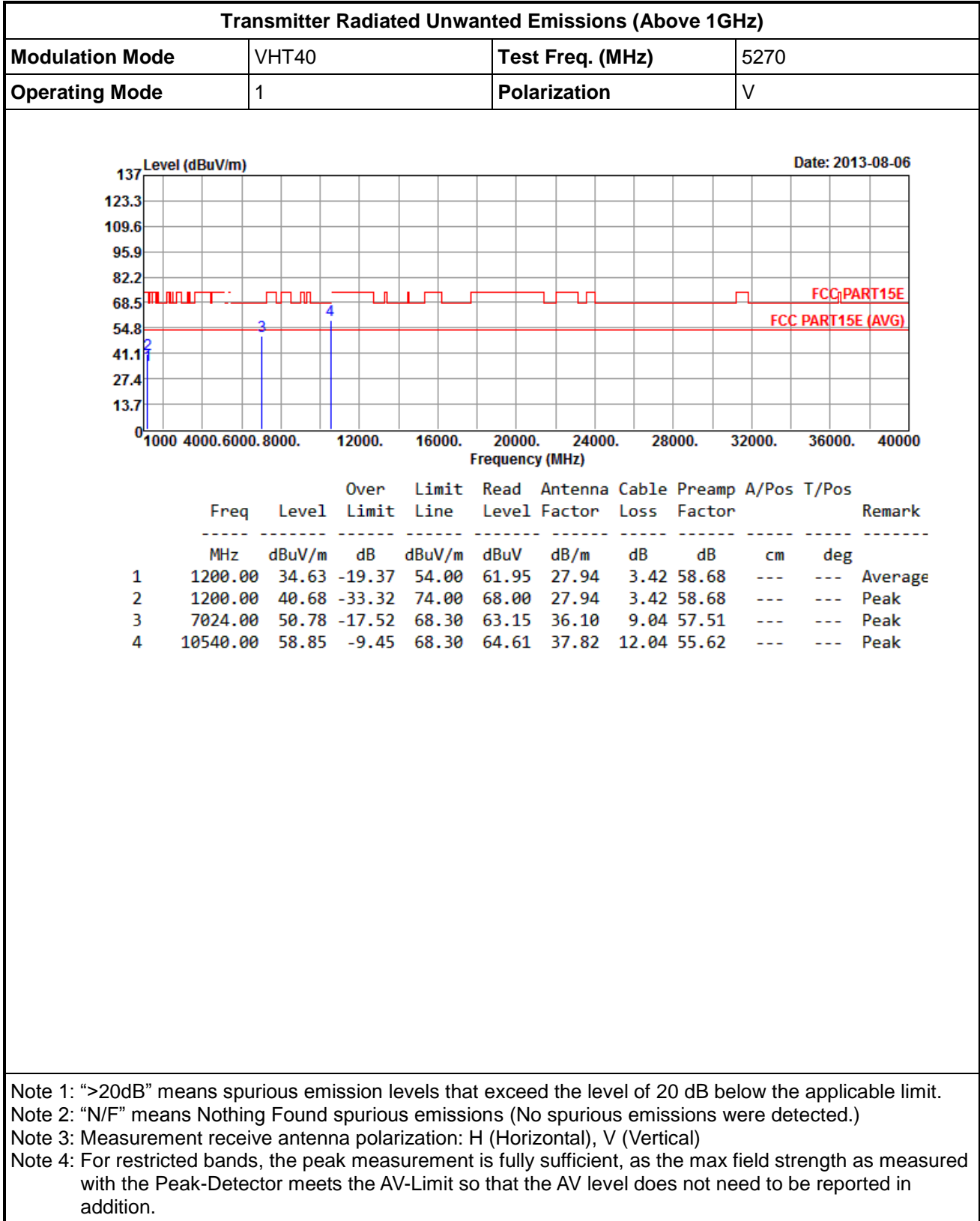


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.64	-20.36	54.00	60.96	27.94	3.42	58.68	---	---	Average
2	1200.00	39.89	-34.11	74.00	67.21	27.94	3.42	58.68	---	---	Peak
3	7598.00	38.61	-15.39	54.00	50.99	36.02	9.85	58.25	---	---	Average
4	7598.00	50.41	-23.59	74.00	62.79	36.02	9.85	58.25	---	---	Peak
5	11400.00	44.34	-9.66	54.00	49.32	38.40	11.88	55.26	---	---	Average
6	11400.00	57.51	-16.49	74.00	62.49	38.40	11.88	55.26	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



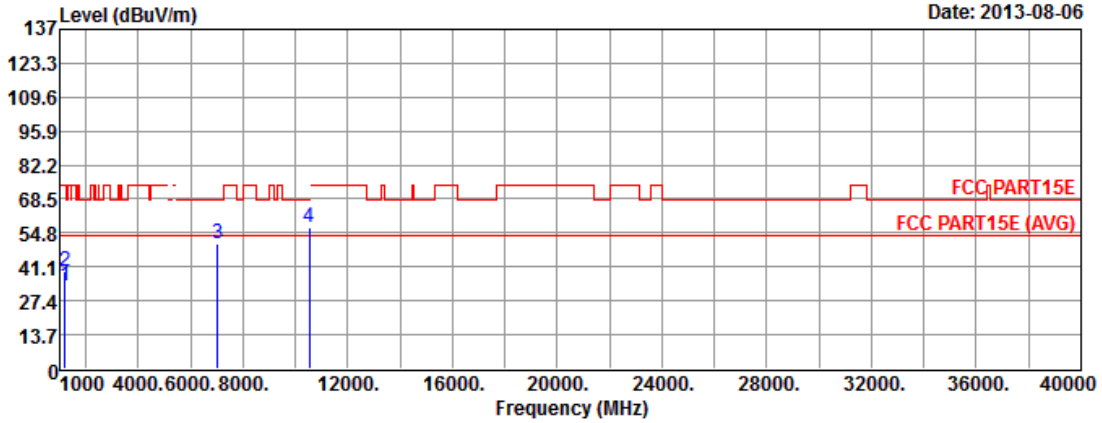
3.7.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40





Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5270
Operating Mode	1	Polarization	H



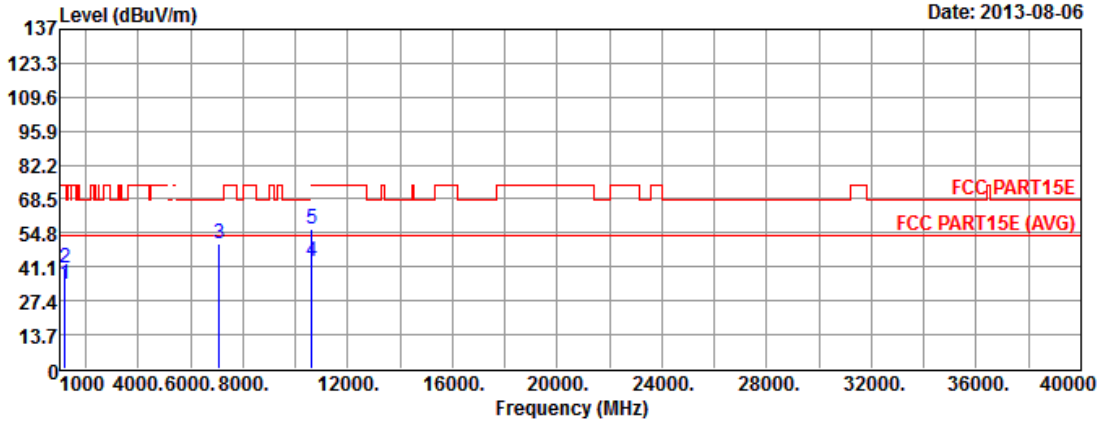
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.18	-20.82	54.00	60.50	27.94	3.42	58.68	---	---	Average
2	1200.00	39.34	-34.66	74.00	66.66	27.94	3.42	58.68	---	---	Peak
3	7024.00	50.27	-18.03	68.30	62.64	36.10	9.04	57.51	---	---	Peak
4	10540.00	57.35	-10.95	68.30	63.11	37.82	12.04	55.62	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5310
Operating Mode	1	Polarization	V



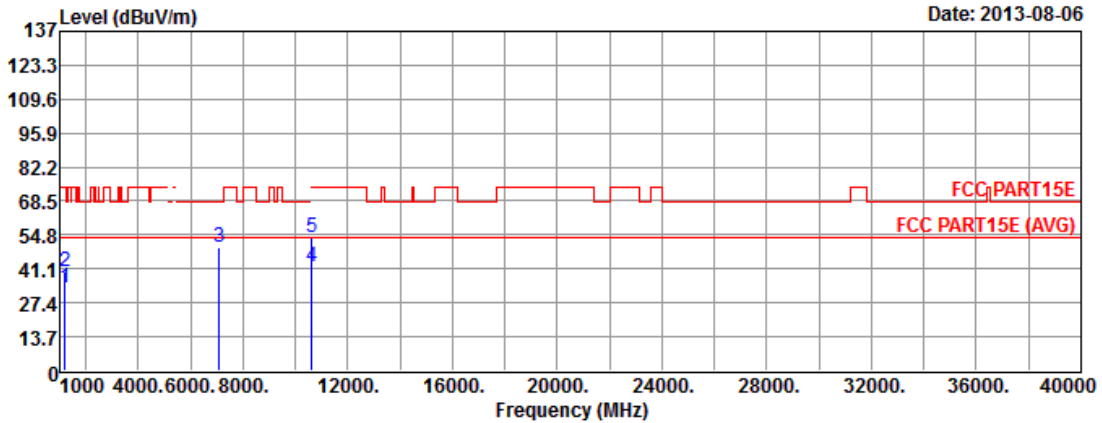
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.37	-19.63	54.00	61.69	27.94	3.42	58.68	---	---	Average
2	1200.00	40.33	-33.67	74.00	67.65	27.94	3.42	58.68	---	---	Peak
3	7078.00	50.45	-17.85	68.30	63.02	36.08	8.95	57.60	---	---	Peak
4	10620.00	43.42	-10.58	54.00	49.03	37.85	12.14	55.60	---	---	Average
5	10620.00	56.54	-17.46	74.00	62.15	37.85	12.14	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5310
Operating Mode	1	Polarization	H



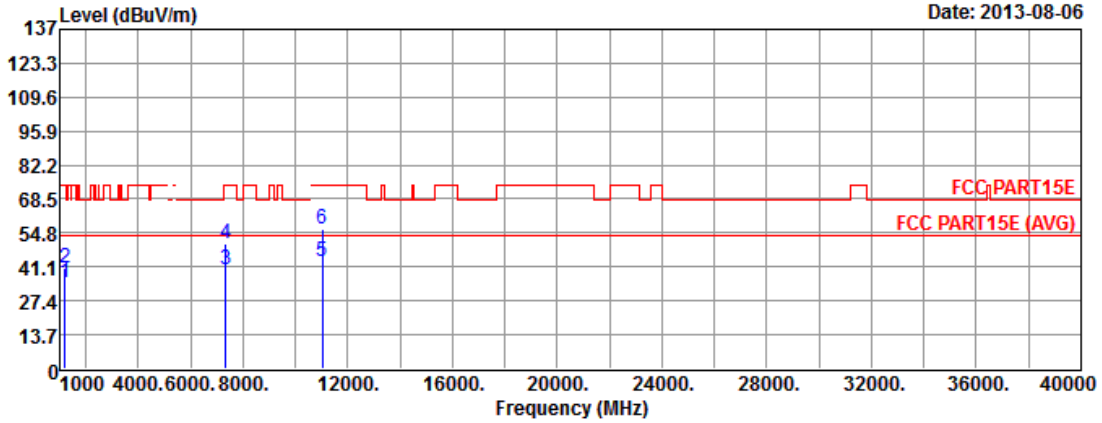
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.38	-20.62	54.00	60.70	27.94	3.42	58.68	---	---	Average
2	1200.00	39.66	-34.34	74.00	66.98	27.94	3.42	58.68	---	---	Peak
3	7078.00	49.67	-18.63	68.30	62.24	36.08	8.95	57.60	---	---	Peak
4	10620.00	41.95	-12.05	54.00	47.56	37.85	12.14	55.60	---	---	Average
5	10620.00	53.88	-20.12	74.00	59.49	37.85	12.14	55.60	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5510
Operating Mode	1	Polarization	V



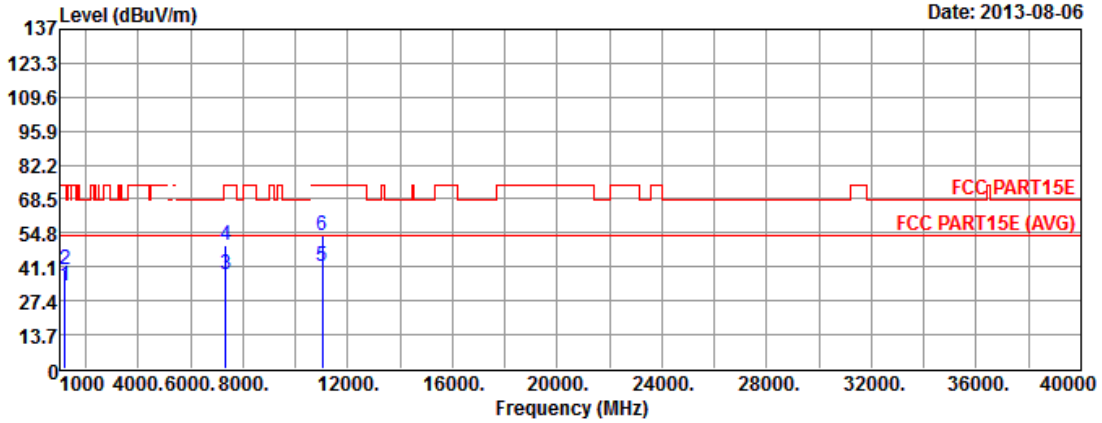
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.54	-19.46	54.00	61.86	27.94	3.42	58.68	---	---	Average
2	1200.00	40.50	-33.50	74.00	67.82	27.94	3.42	58.68	---	---	Peak
3	7344.00	39.70	-14.30	54.00	51.87	36.03	9.84	58.04	---	---	Average
4	7344.00	50.67	-23.33	74.00	62.84	36.03	9.84	58.04	---	---	Peak
5	11020.00	43.56	-10.44	54.00	49.29	38.02	11.73	55.48	---	---	Average
6	11020.00	56.34	-17.66	74.00	62.07	38.02	11.73	55.48	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5510
Operating Mode	1	Polarization	H



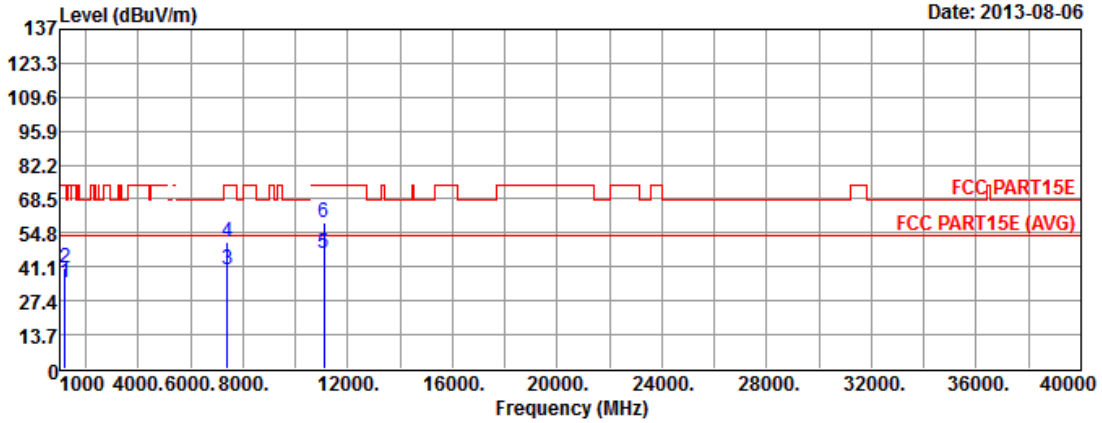
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.48	-20.52	54.00	60.80	27.94	3.42	58.68	---	---	Average
2	1200.00	39.85	-34.15	74.00	67.17	27.94	3.42	58.68	---	---	Peak
3	7344.00	37.77	-16.23	54.00	49.94	36.03	9.84	58.04	---	---	Average
4	7344.00	49.80	-24.20	74.00	61.97	36.03	9.84	58.04	---	---	Peak
5	11020.00	41.50	-12.50	54.00	47.23	38.02	11.73	55.48	---	---	Average
6	11020.00	53.44	-20.56	74.00	59.17	38.02	11.73	55.48	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5550
Operating Mode	1	Polarization	V



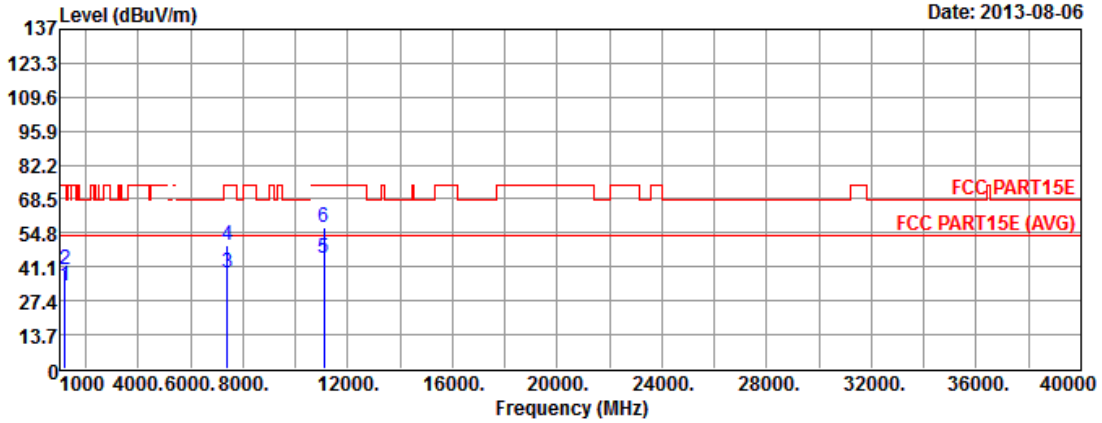
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.85	-19.15	54.00	62.17	27.94	3.42	58.68	---	---	Average
2	1200.00	40.96	-33.04	74.00	68.28	27.94	3.42	58.68	---	---	Peak
3	7398.00	39.81	-14.19	54.00	52.16	36.02	9.76	58.13	---	---	Average
4	7398.00	51.27	-22.73	74.00	63.62	36.02	9.76	58.13	---	---	Peak
5	11100.00	46.48	-7.52	54.00	52.38	38.10	11.43	55.43	---	---	Average
6	11100.00	58.67	-15.33	74.00	64.57	38.10	11.43	55.43	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5550
Operating Mode	1	Polarization	H



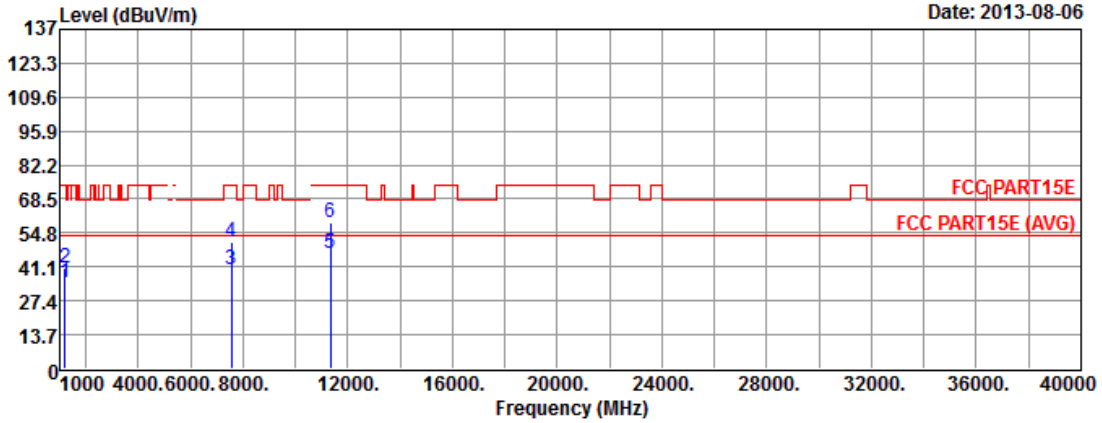
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.47	-20.53	54.00	60.79	27.94	3.42	58.68	---	---	Average
2	1200.00	39.68	-34.32	74.00	67.00	27.94	3.42	58.68	---	---	Peak
3	7398.00	38.39	-15.61	54.00	50.74	36.02	9.76	58.13	---	---	Average
4	7398.00	49.75	-24.25	74.00	62.10	36.02	9.76	58.13	---	---	Peak
5	11100.00	44.42	-9.58	54.00	50.32	38.10	11.43	55.43	---	---	Average
6	11100.00	57.14	-16.86	74.00	63.04	38.10	11.43	55.43	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5670
Operating Mode	1	Polarization	V



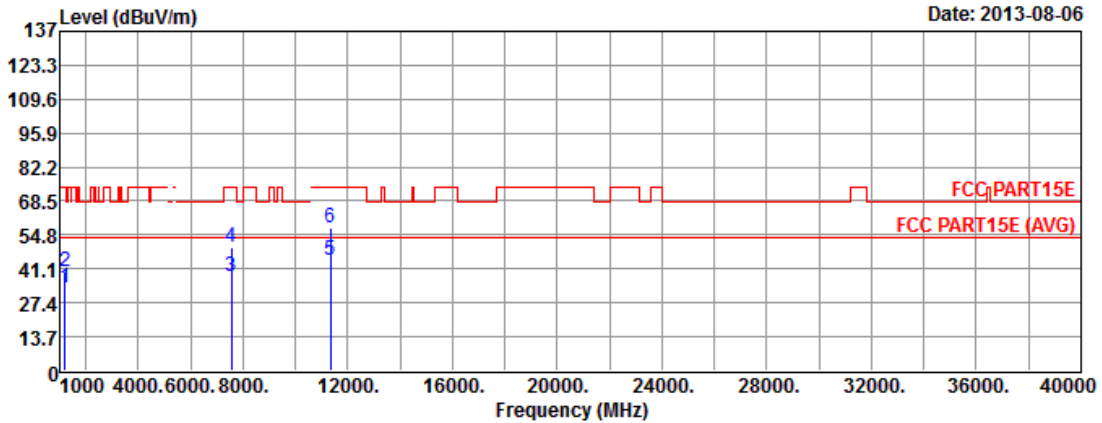
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.87	-19.13	54.00	62.19	27.94	3.42	58.68	---	---	Average
2	1200.00	40.96	-33.04	74.00	68.28	27.94	3.42	58.68	---	---	Peak
3	7558.00	40.24	-13.76	54.00	52.77	36.01	9.73	58.27	---	---	Average
4	7558.00	51.13	-22.87	74.00	63.66	36.01	9.73	58.27	---	---	Peak
5	11340.00	46.47	-7.53	54.00	51.44	38.34	11.98	55.29	---	---	Average
6	11340.00	58.88	-15.12	74.00	63.85	38.34	11.98	55.29	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5670
Operating Mode	1	Polarization	H

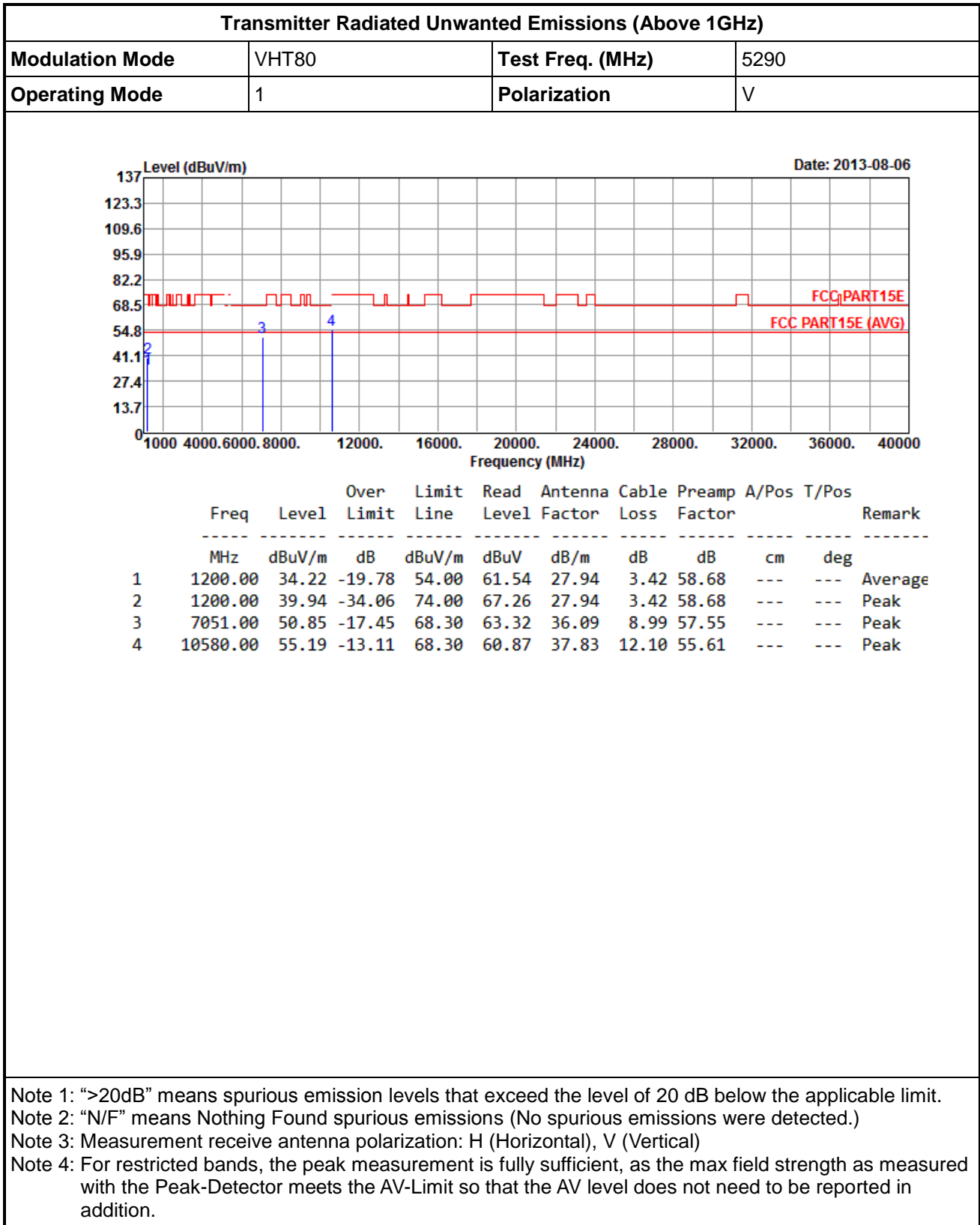


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.54	-20.46	54.00	60.86	27.94	3.42	58.68	---	---	Average
2	1200.00	39.78	-34.22	74.00	67.10	27.94	3.42	58.68	---	---	Peak
3	7558.00	38.24	-15.76	54.00	50.77	36.01	9.73	58.27	---	---	Average
4	7558.00	49.95	-24.05	74.00	62.48	36.01	9.73	58.27	---	---	Peak
5	11340.00	44.55	-9.45	54.00	49.52	38.34	11.98	55.29	---	---	Average
6	11340.00	57.41	-16.59	74.00	62.38	38.34	11.98	55.29	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



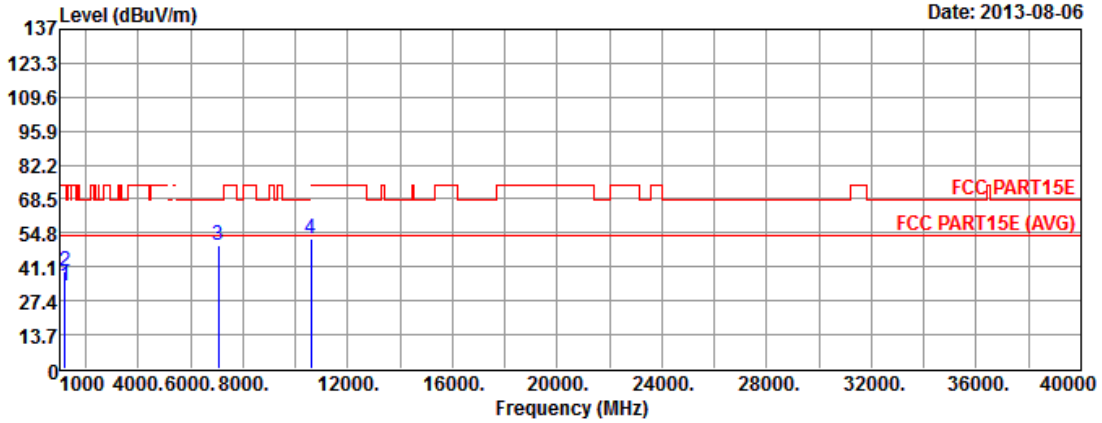
3.7.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80





Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT80	Test Freq. (MHz)	5290
Operating Mode	1	Polarization	H



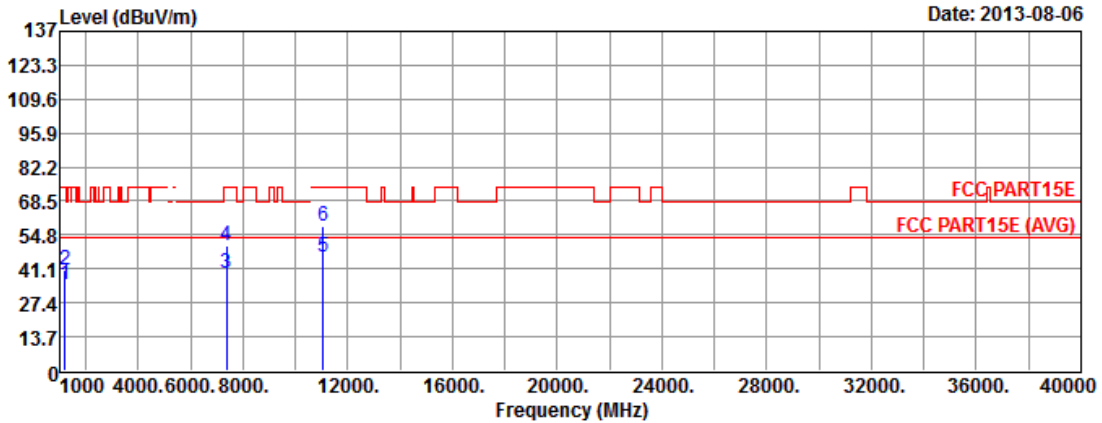
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.27	-20.73	54.00	60.59	27.94	3.42	58.68	---	---	Average
2	1200.00	39.56	-34.44	74.00	66.88	27.94	3.42	58.68	---	---	Peak
3	7051.00	49.85	-18.45	68.30	62.32	36.09	8.99	57.55	---	---	Peak
4	10580.00	52.66	-15.64	68.30	58.34	37.83	12.10	55.61	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT80	Test Freq. (MHz)	5530
Operating Mode	1	Polarization	V



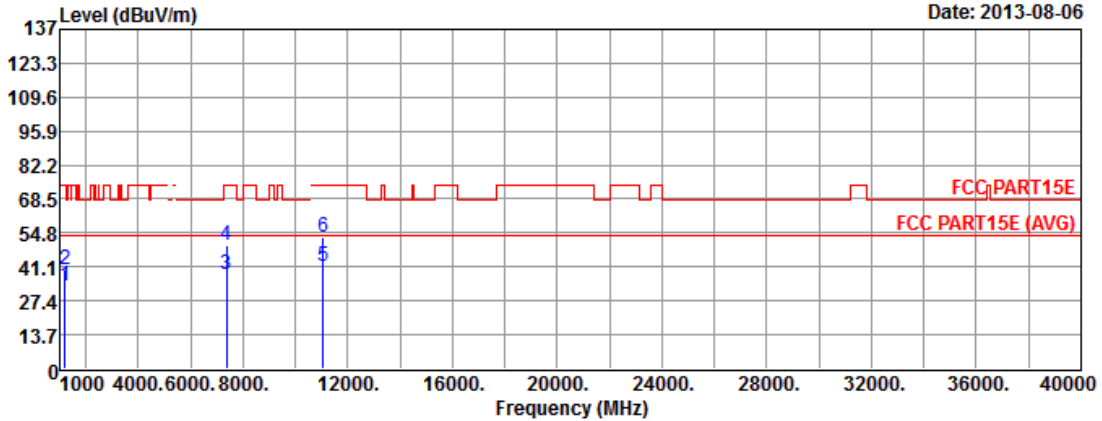
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.45	-19.55	54.00	61.77	27.94	3.42	58.68	---	---	Average
2	1200.00	40.37	-33.63	74.00	67.69	27.94	3.42	58.68	---	---	Peak
3	7371.00	39.56	-14.44	54.00	51.82	36.03	9.80	58.09	---	---	Average
4	7371.00	50.49	-23.51	74.00	62.75	36.03	9.80	58.09	---	---	Peak
5	11060.00	46.10	-7.90	54.00	51.92	38.06	11.58	55.46	---	---	Average
6	11060.00	58.17	-15.83	74.00	63.99	38.06	11.58	55.46	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT80	Test Freq. (MHz)	5530
Operating Mode	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.41	-20.59	54.00	60.73	27.94	3.42	58.68	---	---	Average
2	1200.00	39.67	-34.33	74.00	66.99	27.94	3.42	58.68	---	---	Peak
3	7371.00	38.34	-15.66	54.00	50.60	36.03	9.80	58.09	---	---	Average
4	7371.00	50.08	-23.92	74.00	62.34	36.03	9.80	58.09	---	---	Peak
5	11060.00	40.97	-13.03	54.00	46.79	38.06	11.58	55.46	---	---	Average
6	11060.00	52.86	-21.14	74.00	58.68	38.06	11.58	55.46	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

3.8 Frequency Stability

3.8.1 Frequency Stability Limit

Frequency Stability Limit	
UNII Devices	
<input checked="" type="checkbox"/>	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
LE-LAN Devices	
<input checked="" type="checkbox"/>	N/A
IEEE Std. 802.11n-2009	
<input checked="" type="checkbox"/>	The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

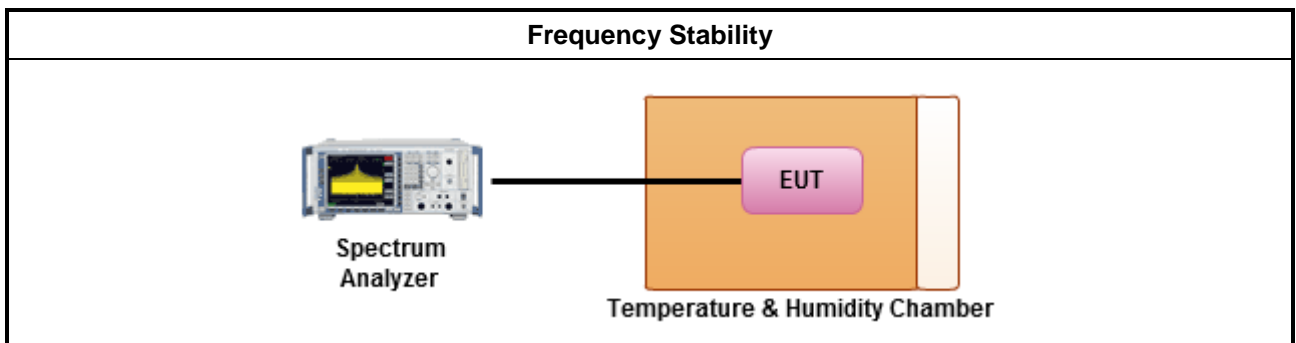
3.8.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.8.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.8 for frequency stability tests
<input checked="" type="checkbox"/>	Frequency stability with respect to ambient temperature
<input checked="" type="checkbox"/>	Frequency stability when varying supply voltage
<input checked="" type="checkbox"/>	For conducted measurement.
<input checked="" type="checkbox"/>	For conducted measurements on devices with multiple transmit chains: Measurements need only to be performed on one of the active transmit chains (antenna outputs)
<input type="checkbox"/>	For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level.

3.8.4 Test Setup



3.8.5 Test Result of Frequency Stability

Frequency Stability Result			
Mode		Frequency Stability (ppm)	
Condition	Freq. (MHz)	Test Frequency (MHz)	Frequency Stability (ppm)
T _{20°C} V _{max}	5320	5319.99968	-0.0602
T _{20°C} V _{min}	5320	5320.02049	3.8515
T _{50°C} V _{nom}	5320	5320.02135	4.0132
T _{40°C} V _{nom}	5320	5319.98832	-2.1955
T _{30°C} V _{nom}	5320	5319.99696	-0.5714
T _{20°C} V _{nom}	5320	5320.00226	0.4248
T _{10°C} V _{nom}	5320	5319.99711	-0.5432
T _{0°C} V _{nom}	5320	5319.99864	-0.2556
T _{-10°C} V _{nom}	5320	5319.99865	-0.2538
T _{-20°C} V _{nom}	5320	5319.99977	-0.0432
Limit (ppm)		20	
Result		Complied	
Note 1: Measure at 85 % [V _{min}] and 115 % [V _{max}] of the nominal voltage [V _{nom}]. Note 2: The nominal voltage refer test report clause 1.1.5 for EUT operational condition.			



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Mar. 26, 2013	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRO NIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 21, 2013	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz ~ 30MHz	Apr. 18, 2013	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNE R	RG213/U	7.61183201e+01 2	9kHz ~ 30MHz	Nov. 09, 2012	Conduction (CO04-HY)
ISN	TESEQ	ISN T800	30330	9kHz ~ 30MHz	Mar. 15, 2013	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
CDN	TESEQ	M016	25100	150kHz ~ 26MHz	Mar. 11, 2013	Conduction (CO04-HY)
CDN	TESEQ	M016	25103	150kHz ~ 26MHz	Mar. 11, 2013	Conduction (CO04-HY)
50 ohm terminal	N/A	N/A	TM012	N/A	Feb. 26, 2013	Conduction (CO04-HY)
50 ohm terminal	N/A	N/A	CON-04-02	N/A	Feb. 26, 2013	Conduction (CO04-HY)
50 ohm terminal	N/A	N/A	CON-04-01	N/A	Apr. 22, 2013	Conduction (CO04-HY)
50 ohm terminal	N/A	N/A	CON-04-03	N/A	Feb. 26, 2013	Conduction (CO04-HY)
50 ohm terminal	N/A	N/A	CON-01-04	N/A	Feb. 26, 2013	Conduction (CO04-HY)
ISN	TESEQ	ISN T400	21653	N/A	Jun. 25, 2013	Conduction (CO04-HY)

Note: Calibration Interval of instruments listed above is one year.



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSV	101498	10Hz – 40GHz	Jan. 24, 2013	Radiation (03CH05-HY)
Receiver	R&S	ESIB26	100337	20Hz – 26.5GHz	Dec. 14, 2012	Radiation (03CH05-HY)
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH05-HY	30 MHz - 1 GHz 3m	N/A	Radiation (03CH05-HY)
Amplifier	COM-POWER	PA-103	161075	1KHz - 1GHz	Feb. 26, 2013	Radiation (03CH05-HY)
Amplifier	MITEQ	AMF-7D-001018 00-30-10P	1590074	1GHz – 26.5 GHz	Jul. 09, 2013	Radiation (03CH05-HY)
Horn Antenna	ETS-LINDGREN	3117	66584	1GHz~18GHz	Aug. 07, 2013	Radiation (03CH05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2725	30 MHz - 1 GHz	Oct. 06, 2012	Radiation (03CH05-HY)
RF Cable-R03m	Jye Bao	RG142	03CH05-HY	30 MHz - 1 GHz	Oct. 14, 2012	Radiation (03CH05-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX104	03CH05-HY	1GHz~40GHz	Oct. 14, 2012	Radiation (03CH05-HY)
Turn Table	HD	HD100	420/611	0 - 360 degree	N/A	Radiation (03CH05-HY)
Antenna Mast	HD	HD100	240/666	1 m - 4 m	N/A	Radiation (03CH05-HY)
Antenna Mast	HD	HD100	240/666	1 m - 4 m	N/A	Radiation (03CH05-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz ~ 40GHz	Apr. 19, 2013	Radiation (03CH05-HY)
Loop Antenna	R&S	HFH2-Z2	860004/0001	9 kHz - 30 MHz	Jul. 03, 2012	Radiation (03CH05-HY)

Note: Calibration Interval of instruments listed above is two year.



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSV 40	101063	9KHz~40GHz	Feb. 18, 2013	Conducted (TH01-HY)
Spectrum Analyzer	R&S	FSP 40	100305	9KHz~40GHz	Mar. 20, 2013	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	-20 ~ 100°C	Nov. 21, 2012	Conducted (TH01-HY)
Signal Generator	R&S	SMB100A	175727	10MHz ~ 40GHz	Jan. 14, 2013	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	Feb. 02, 2013	Conducted (TH01-HY)
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	Feb. 02, 2013	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Jun. 21, 2013	Conducted (TH01-HY)
AC Power Source	G.W.	APS-9102	EL920581	AC 0V ~ 300V	Jul. 16, 2013	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.