



**CFR 47 FCC PART 15 SUBPART E
CERTIFICATION TEST REPORT**

For

WIFI Module

MODEL NUMBER: WC5EM2601F

FCC ID: 2AC23-WC5E

REPORT NUMBER: 4790487035-2

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Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	07/28/2022	Initial Issue	

Note: This is a report base on 4790105656.2-2 which is issued by UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch on October 29, 2021. The module WC5EM2601F had already applied for single module approval and the FCC ID is 2AC23-WC5E. Now the customer wants to add two antennas but the module remained unchanged. The antenna type of the new antennas is the same as the original antenna, but the gain is different. Spot check had been done for the conducted output power, the power of module remained unchanged, so we retest all radiated emission and show in this report but others data were refer to the original test report.

The summary of spot-check test data compared to the original test data:

Item	Test Mode	Frequency (MHz)	Antenna	Worst Case Test Result		
				Original Test Result (dBm)	Spot Check Result (dBm)	Difference
Conducted AV Power	802.11a	5825	1	18.15	18.57	0.42
			2	19.53	19.72	0.19
	802.11n HT20	5825	1	15.46	15.67	0.21
			2	17.04	17.22	0.18
	802.11n HT40	5795	1	15.89	15.61	-0.28
			2	17.22	17.44	0.22
	802.11n HT80	5775	1	16.51	16.71	0.20
			2	17.21	17.46	0.25



Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	6dB/26dB Bandwidth	FCC 15.407 (a)&(e)	PASS
2	Conducted Output Power	FCC 15.407 (a)	PASS
3	Power Spectral Density	FCC 15.407 (a)	PASS
4	Radiated Bandedge and Spurious Emission	FCC 15.407 (b) FCC 15.209 FCC 15.205	PASS
5	Conducted Emission Test for AC Power Port	FCC 15.207	PASS
6	Frequency Stability	FCC 15.407 (g)	PASS
7	Dynamic Frequency Selection	FCC 15.407 (h)	PASS
8	Antenna Requirement	FCC 15.203	PASS
Note: 1. This test report is only published to and used by the applicant, and it is not for evidence purpose in China. 2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART E > when <Accuracy Method> decision rule is applied.			

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
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Manufacturer Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
Address: No.2,Jin-da Road,Huinan High-tech Industrial Park,Hui-ao Avenue,Huizhou City,Guangdong,China

EUT Information

EUT Name: WIFI Module
Model: WC5EM2601F
Brand: GSD
Last Time Sample Received Date: September 22, 2021
This Time Sample Received Date: July 12, 2022
Sample Status: Normal
Sample ID: 4245286/5143870
Date of Tested for Last Time: September 24, 2021 ~ October 25, 2021
Date of Tested for This Time: July 12, 2022 ~ July 29, 2022

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART E	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, KDB414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, KDB 905462 D03 UNII clients without radar detection New Rules v01r02, KDB 905462 D04 Operational Modes for DFS Testing New Rules v01 and KDB 905462 D06 802 11 Channel Plans New Rules v02.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.78 dB (1 GHz-18 GHz)
	5.23dB (18 GHz-26 GHz)
	5.64 dB (26 GHz-40 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	WIFI Module
Model	WC5EM2601F
Radio Technology	WLAN (IEEE 802.11a 20/n HT20/n HT40/ac VHT20/VHT 40/VHT 80)
Operation frequency	UNII-1: 5150 ~ 5250 MHz UNII-2A: 5250 ~ 5350 MHz UNII-2C: 5470 ~ 5725 MHz UNII-3: 5725 ~ 5850 MHz
Modulation	IEEE 802.11a 20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT80: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Power Supply	DC 3.3 V



5.2. MAXIMUM OUTPUT POWER

UNII-1 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a 20	5150 ~ 5250	19.80
n HT20		18.32
n HT40		18.76
ac VHT 80		17.76

UNII-2A BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a 20	5250 ~ 5350	19.65
n HT20		18.25
n HT40		18.45
ac VHT 80		18.08

UNII-2C BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a 20	5470 ~ 5725	14.68
n HT20		15.27
n HT40		15.88
ac VHT 80		16.96

UNII-3 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a 20	5725 ~ 5850	19.95
n HT20		19.84
n HT40		19.62
ac VHT 80		19.88

5.3. CHANNEL LIST

UNII-1 (For Bandwidth=20MHz)		UNII-1 (For Bandwidth=40MHz)		UNII-1 (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A (For Bandwidth=20MHz)		UNII-2A (For Bandwidth=40MHz)		UNII-2A (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C (For Bandwidth=20MHz)		UNII-2C (For Bandwidth=40MHz)		UNII-2C (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna Group 1				
Antenna No.	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)	Manufacturer
1	5180 ~ 5825	PIFA	4.13	Zhongshan B&T Communication Technology Co., Ltd
2	5180 ~ 5825	PIFA	3	/

The EUT support Cyclic Shift Diversity (CDD), Space Time Coding (STBC), Spatial Division Multiplexing (SDM) modes.

According to KDB 662911 D01:

The Directional Gain was calculated as the following method:

For CDD mode:

For output power measurements:

Directional gain = $G_{ANT} + \text{Array Gain} = 4.13 \text{ dBi}$

G_{ANT} : equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:

Directional gain = $G_{ANT} + \text{Array Gain} = 7.14 \text{ dBi}$

Array Gain = $10 \log(N_{ANT}/N_{SS}) \text{ dB}$.

N_{ANT} : number of transmit antennas

N_{SS} : number of spatial streams, the worst case directional gain will occur when $N_{SS} = 1$

For STBC and SDM mode:

For output power measurements and power spectral density (PSD) measurements

Directional gain = $G_{ANT} = 4.13 \text{ dBi}$

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a 20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11n HT20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11n HT40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11ac VHT20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11ac VHT40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11ac VHT80	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
Note: 1. WLAN 2.4G & WLAN 5G can't transmit simultaneously. (Declared by client)		

Antenna Group 2				
Antenna No.	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)	Manufacturer
1	5180 ~ 5825	PIFA	2.57	Shenzhen Yishengbang Technology Company Limited
2	5180 ~ 5825	PIFA	3	/

The EUT support Cyclic Shift Diversity (CDD), Space Time Coding (STBC), Spatial Division Multiplexing (SDM) modes.

According to KDB 662911 D01:

The Directional Gain was calculated as the following method:

For CDD mode:

For output power measurements:

Directional gain = $G_{ANT} + \text{Array Gain} = 3 \text{ dBi}$

G_{ANT} : equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:

Directional gain = $G_{ANT} + \text{Array Gain} = 6.01 \text{ dBi}$

Array Gain = $10 \log(N_{ANT}/N_{SS}) \text{ dB}$.

N_{ANT} : number of transmit antennas

N_{SS} : number of spatial streams, the worst case directional gain will occur when $N_{SS} = 1$

For STBC and SDM mode:

For output power measurements and power spectral density (PSD) measurements

Directional gain = $G_{ANT} = 2.57 \text{ dBi}$

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a 20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11n HT20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11n HT40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11ac VHT20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11ac VHT40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
802.11ac VHT80	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
Note: 1. WLAN 2.4G & WLAN 5G can't transmit simultaneously. (Declared by client)		



Note:

1. The value of the antenna gain was declared by customer.
2. Antenna No. 2 for each group is the same as the original antenna.
3. Antenna No. 1 is new antenna and it has 2 kinds which is made by difference manufacturer (B&T and Yishengbang).
4. For Antenna No. 1, pre-scan had been done for all the antennas and cables, but only the worst data (B&T Antenna) was recorded in the report.

**5.5. THE WORSE CASE POWER SETTING PARAMETER**

The Worse Case Power Setting Parameter	
Test Software	QA tool

UNII-1

IEE Std. 802.11	Rate	Channel	Soft set value	
			ANT 1	ANT 2
a 20	6M	36	23	23
		40	25	25
		48	25	25
n HT20	MCS0	36	1E	1E
		40	1E	1E
		48	1E	1E
n HT40	MCS0	38	1E	1E
		46	1E	1E
ac HT 80	MCS0	42	1C	1E

UNII-2A

IEE Std. 802.11	Rate	Channel	Soft set value	
			ANT 1	ANT 2
a 20	6M	52	25	25
		60	25	25
		64	21	21
n HT20	MCS0	52	1E	1E
		60	1E	1E
		64	1E	1E
n HT40	MCS0	54	1E	1E
		62	1E	1E
ac VHT80	MCS0	58	1C	1E

UNII-2C

IEE Std. 802.11	Rate	Channel	Soft set value	
			ANT 1	ANT 2
a 20	6M	100	19	19
		120	19	19
		140	19	19
n HT20	MCS0	100	18	18
		120	18	18
		140	18	18
n HT40	MCS0	102	18	18
		118	18	18
		134	18	18
ac VHT80	MCS0	106	18	1A
		122	18	1A



UNII-3

IEE Std. 802.11	Rate	Channel	Soft set value	
			ANT 1	ANT 2
a 20	6M	149	25	25
		157	25	25
		165	25	25
n HT20	MCS0	149	22	22
		157	22	22
		165	22	22
n HT40	MCS0	151	20	20
		159	20	20
ac VHT80	MCS0	155	20	21

**5.6. TEST CHANNEL CONFIGURATION**

UNII-1 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11ac VHT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT80	CH 42(Low Channel)	5210 MHz
802.11ac VHT160	CH 50(Low Channel)	5250 MHz

UNII-2A Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11n HT20	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11n HT40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ac VHT20	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11ac VHT40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ac VHT80	CH 58(Low Channel)	5290 MHz

UNII-2C Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 100(Low Channel), CH 120(MID Channel), CH 140(High Channel)	5500 MHz, 5600 MHz, 5700 MHz
802.11n VHT20	CH 100(Low Channel), CH 120(MID Channel), CH 140(High Channel)	5500 MHz, 5600 MHz, 5700 MHz
802.11n VHT40	CH 102(Low Channel), CH 118(MID Channel), CH 134(High Channel)	5510 MHz, 5590 MHz, 5670 MHz
802.11ac VHT20	CH 100(Low Channel), CH 120(MID Channel), CH 140(High Channel)	5500MHz, 5600 MHz, 5700MHz
802.11ac VHT40	CH 102(Low Channel), CH 118(MID Channel), CH 134(High Channel)	5510 MHz, 5590 MHz, 5670 MHz
802.11ac VHT80	CH 102(Low Channel), CH 122(High Channel)	5530 MHz, 5610 MHz
802.11ac VHT160	CH 114(Low Channel)	5570 MHz



UNII-3 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz
802.11ac VHT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11ac VHT40	CH 151(Low Channel), CH 159(High Channel)	5755 MHz, 5795 MHz
802.11ac VHT80	CH 155(Low Channel)	5775 MHz

5.7. THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.6.

Worst case Data Rates declared by the customer:

802.11a 20 mode: 6 Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0
802.11ac VHT20 mode: MCS0
802.11ac VHT40 mode: MCS0
802.11ac VHT80 mode: MCS0

802.11ac VHT20 and VHT40 mode are different from 802.11nHT20 and HT40 only in control messages, so for these 4 modes, only 802.11n HT20 and 802.11n HT40 worst case power modes radiated emission test data are recorded in the report.

802.11ac&n SISO mode and MIMO mode have the same power setting, so only the worst case power mode (MIMO) will be record in the report.

The EUT has 2 separate antennas which correspond to 2 separate antenna ports. Core 1 and Core 2 correspond to antenna 1 and antenna 2 respectively.

Antenna 1 and Antenna 2 have the same power setting, but the power test data are different. (Declared by customer.)

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

Conducted output power, power spectral density tests separately on each port with all supported SISO & MIMO port combinations.

The EUT support Cyclic Shift Diversity (CDD), Space Time Coding (STBC), Spartial Division Multiplexing (SDM) modes. They use the same conducted power per chain in any given mode, CDD mode have the maximum power setting, so we only chose the worst case mode CDD for final testing.

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	XIAOXIN 5000	/
2	AC Adapter	Lenovo	42T4434	Input: AC 100 ~ 240 V, 1.5 A, 50-60 Hz Output: DC 20 V, 4.5 A

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	0.3	/

ACCESSORIES

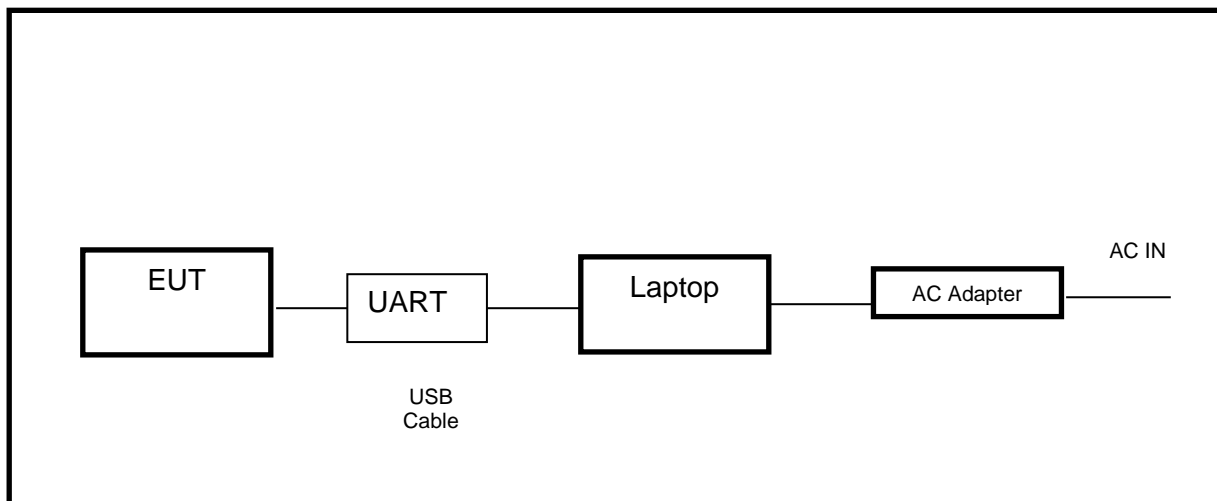
Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

Note: The cable is provided by customer.

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS





6. MEASURING INSTRUMENT AND SOFTWARE USED

Last time calibration information:

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Nov. 12, 2020	Nov. 11, 2021
Two-Line V-Network	R&S	ENV216	101983	Nov. 12, 2020	Nov. 11, 2021
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug. 02, 2021	Aug. 01, 2024
Preamplifier	HP	8447D	2944A09099	Nov. 12, 2020	Nov. 11, 2021
EMI Measurement Receiver	R&S	ESR26	101377	Nov. 12, 2020	Nov. 11, 2021
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Nov. 20, 2020	Nov. 19, 2021
Horn Antenna	Schwarzbeck	BBHA9170	#697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307-00003	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	TDK	PA-02-3	TRS-308-00002	Nov. 12, 2020	Nov. 11, 2021
Loop antenna	Schwarzbeck	1519B	00008	Jan.17, 2019	Jan.17,2022
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	Mini-Circuits	ZX60-83LN-S+	SUP01201941	Nov. 20, 2020	Nov. 19, 2021
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV20-5120-5150-	2	Nov. 12, 2020	Nov. 11, 2021



		5350-5380-60SS			
Band Reject Filter	Wainwright	WRCJV20-5440-5470-5725-5755-60SS	1	Nov. 12, 2020	Nov. 11, 2021
Software					
Description		Manufacturer	Name	Version	
Test Software for Radiated Emissions		Farad	EZ-EMC	Ver. UL-3A1	

Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wideband Radio Communication Tester	R&S	CMW500	155523	Nov.20,2020	Nov.19,2021
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Nov.20,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Nov.20,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Nov.20,2020	Nov.19,2021
DC power supply	Keysight	E3642A	MY55159130	Nov.24,2020	Nov.23,2021
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Nov.20,2020	Nov.19,2021
Software					
Description		Manufacturer	Name		Version
Tonsend SRD Test System		Tonsend	JS1120-3 RF Test System		2.6.77.0518

Other Instruments					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power sensor, Power Meter	R&S	OSP120	100921	Mar.13,2020	Mar.13,2021



This time calibration information:

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.30, 2021	Oct.29, 2022
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.30, 2021	Oct.29, 2022
EMI Measurement Receiver	R&S	ESR26	101377	Oct.30, 2021	Oct.29, 2022
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.30, 2021	Oct.29, 2022
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.31, 2021	Oct.30, 2022
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct.31, 2021	Oct.30, 2022
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Oct.31, 2021	Oct.30, 2022
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	Oct.31, 2021	Oct.30, 2022
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	Oct.31, 2021	Oct.30, 2022
Band Reject Filter	Wainwright	WRCJV20-5120-5150-5350-5380-60SS	2	Oct.31, 2021	Oct.30, 2022
Band Reject Filter	Wainwright	WRCJV20-5440-5470-5725-5755-60SS	1	Oct.31, 2021	Oct.30, 2022
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1



Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.30, 2021	Oct.29, 2022
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Oct.30, 2021	Oct.29, 2022
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Oct.30, 2021	Oct.29, 2022
DC power supply	Keysight	E3642A	MY55159130	Oct.30, 2021	Oct.29, 2022
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Nov.20,2020	Nov.19,2022
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		2.6.77.0518	

Other Instruments					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power sensor, Power Meter	R&S	OSP120	100921	Mar.2, 2022	Mar.1, 2023

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

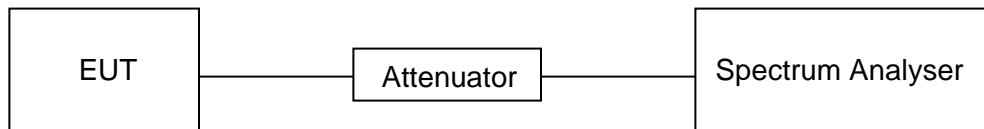
None; for reporting purposes only.

PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST SETUP



TEST ENVIRONMENT

Temperature	26.2 °C	Relative Humidity	56.1 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to appendix D.



7.2. 6/26 dB EMISSION BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15, Subpart E ISED RSS-247 ISSUE 2		
Test Item	Limit	Frequency Range (MHz)
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725 (For FCC) 5470 ~ 5600 (For ISED) 5650 ~ 5725 (For ISED)
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825 (For ISED)

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 26 dB Bandwidth: $> 3 \times \text{RBW}$ For 99 % Bandwidth: $> 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.

Calculation for 99 % Bandwidth of UNII-2C and UNII-3 Straddle Channel:

For Example: Fundamental Frequency: 5720 MHz

99 % OBW: 21.00 MHz

Turning Frequency: 5725 MHz

99 % Bandwidth of UNII-2C Band Portion = $(5725-(5720-(21.00/2))) = 15.50$ MHz99 % Bandwidth of UNII-3 Band Portion = $(5720+(21.00/2)-5725) = 5.50$ MHz**Calculation for 26 dB Bandwidth of UNII-2C Straddle Channel:**

For Example: Fundamental frequency: 5720 MHz

26 dB BW: 20.00 MHz

FL: 5710.16 MHz

FH: 5730.16 MHz

Turning Frequency: 5725 MHz

26 dB Bandwidth of UNII-2C Band Portion = $5725-5710.16=14.84$ MHz**Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:**

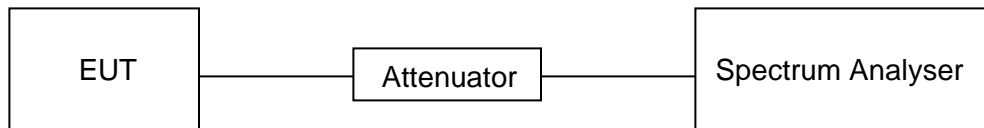
For Example: Fundamental frequency: 5720 MHz

6 dB BW: 16.44 MHz

FL: 5711.76 MHz

FH: 5728.2 MHz

Turning Frequency: 5725 MHz

6 dB Bandwidth of UNII-3 band Portion = $5728.2-5725=3.2$ MHz**TEST SETUP****TEST ENVIRONMENT**

Temperature	26.2 °C	Relative Humidity	56.1 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to Appendix A1&A2&A3.



7.3. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	<input type="checkbox"/> Outdoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Indoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Fixed Point-To-Point Access Points: 1 W (30 dBm) <input checked="" type="checkbox"/> Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW \geq 3 MHz.
- (iv) Number of points in sweep $\geq 2 \times$ span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle $<$ 98 %, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

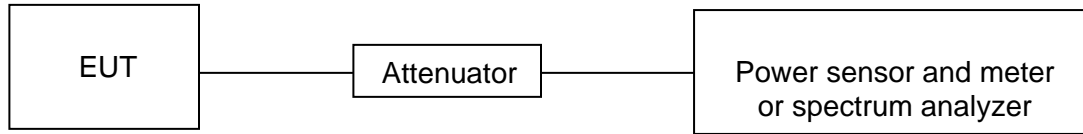
Method PM (Measurement using an RF average power meter):

- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
 - a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
 - b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25 %).

Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power was measured using spectrum analyzer.

TEST SETUP**TEST ENVIRONMENT**

Temperature	26.2 °C	Relative Humidity	56.1 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to Appendix B.

7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	<input type="checkbox"/> Outdoor Access Point: 17 dBm/MHz <input type="checkbox"/> Indoor Access Point: 17 dBm/MHz <input type="checkbox"/> Fixed Point-To-Point Access Points: 17 dBm/MHz <input checked="" type="checkbox"/> Client Devices: 11 dBm/MHz	5150 ~ 5250
	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.
If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

Connect the EUT to the spectrum analyser and use the following settings:

For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

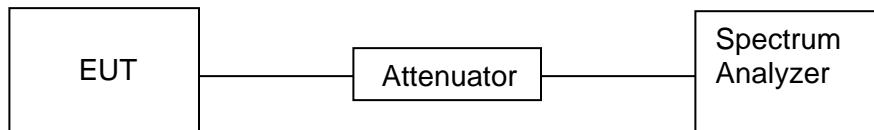
For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

TEST SETUP



TEST ENVIRONMENT

Temperature	26.2 °C	Relative Humidity	56.1 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to Appendix C.



8. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

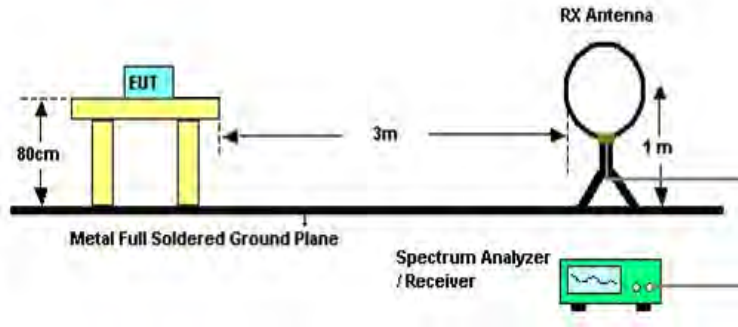
²Above 38.6c

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISSED RSS-247 6.2.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz		
5470~5725 MHz		
5725~5850 MHz	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4
Note: *1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

TEST SETUP AND PROCEDURE

Below 30 MHz

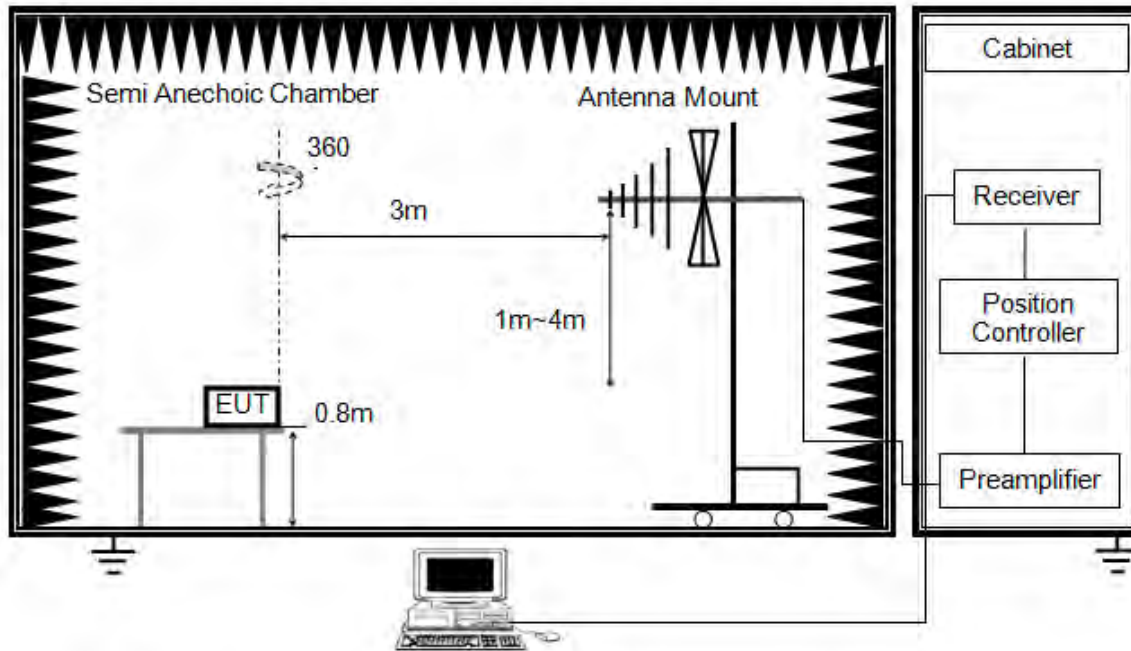


The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 11.11 & 11.12.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 ohm; For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

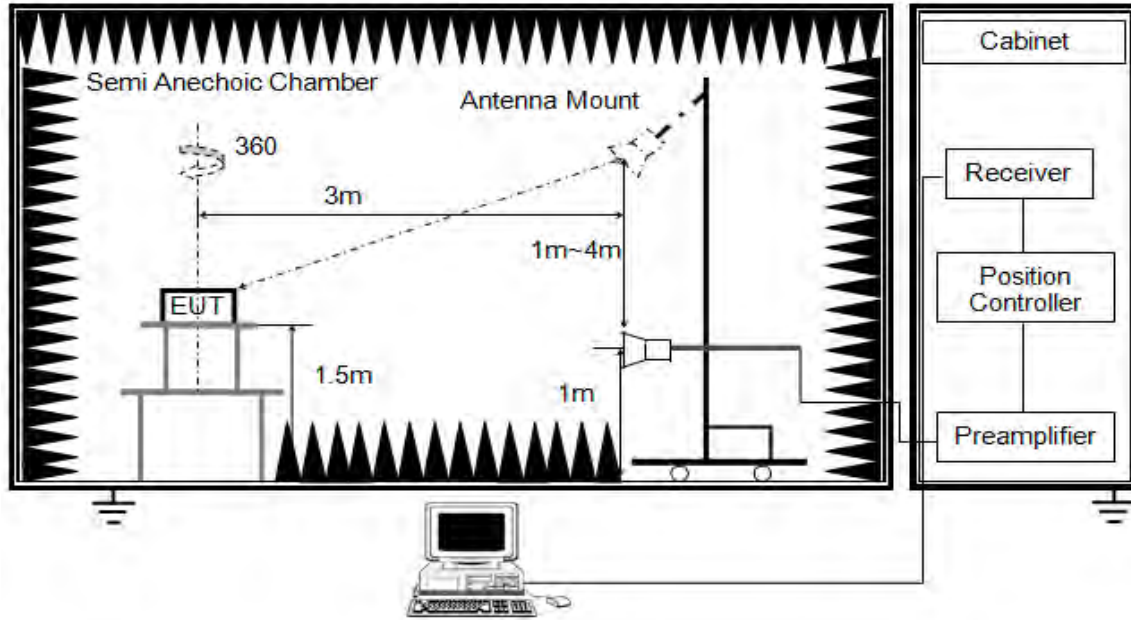


The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 11.11 & 11.12.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

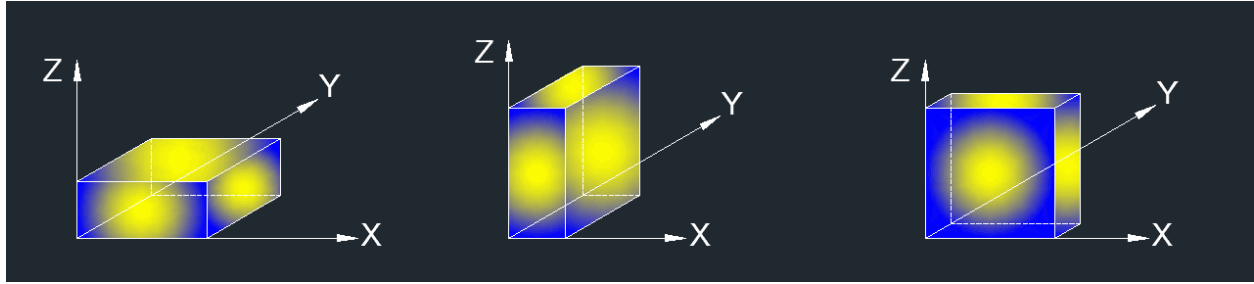


The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

TEST ENVIRONMENT

Temperature	24.3 °C	Relative Humidity	61 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

8.1. RESTRICTED BANDEDGE

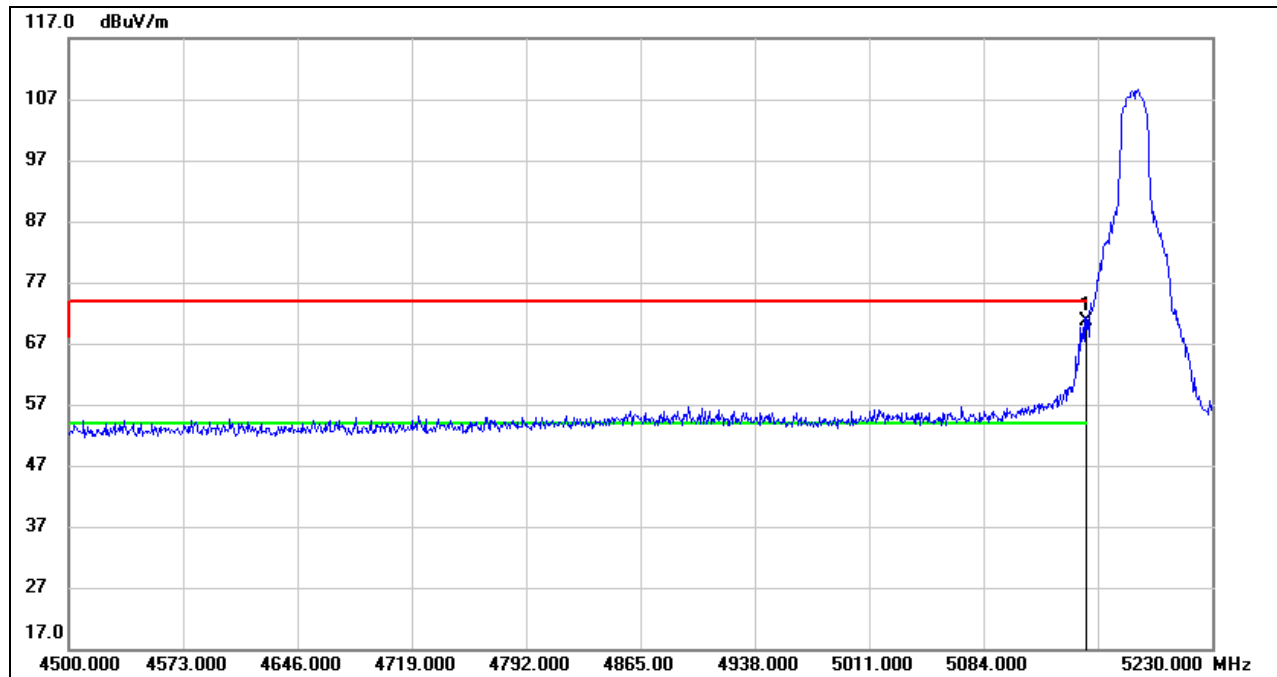
8.1.1. 802.11a 20 SISO MODE

UNII-1 BAND

ANTENNA 2 TEST RESULTS (WORST CASE)

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

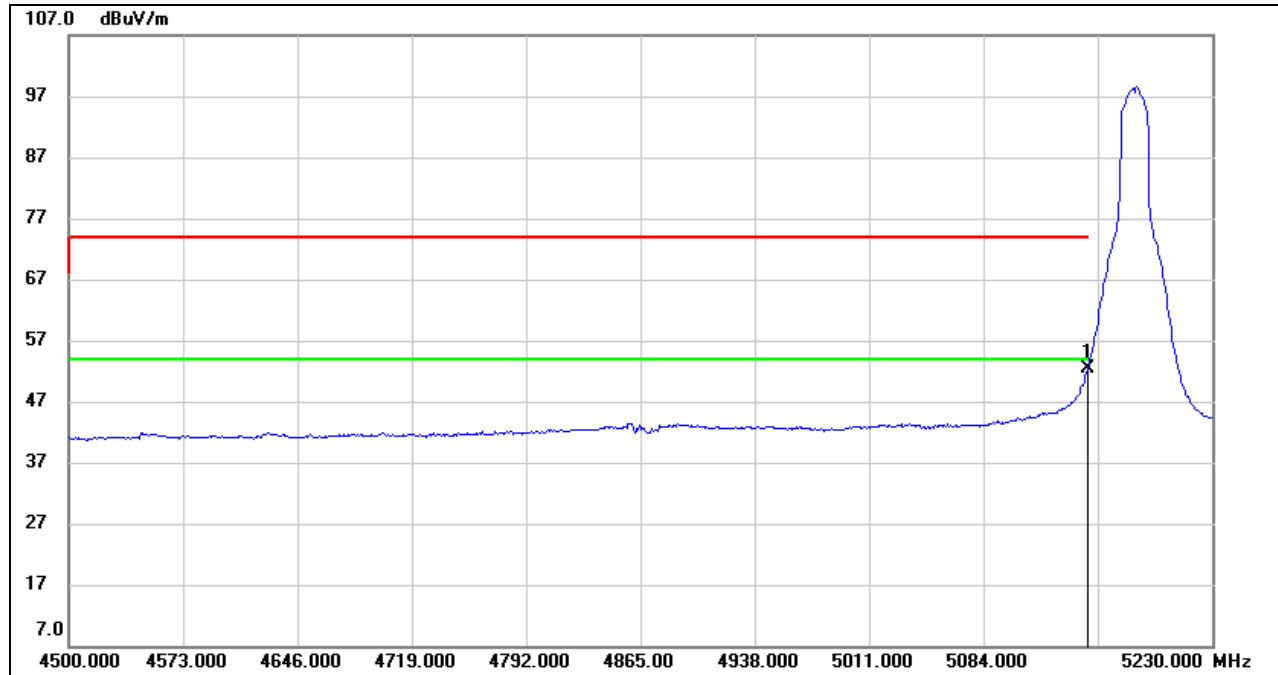
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	30.48	40.27	70.75	74.00	-3.25	peak

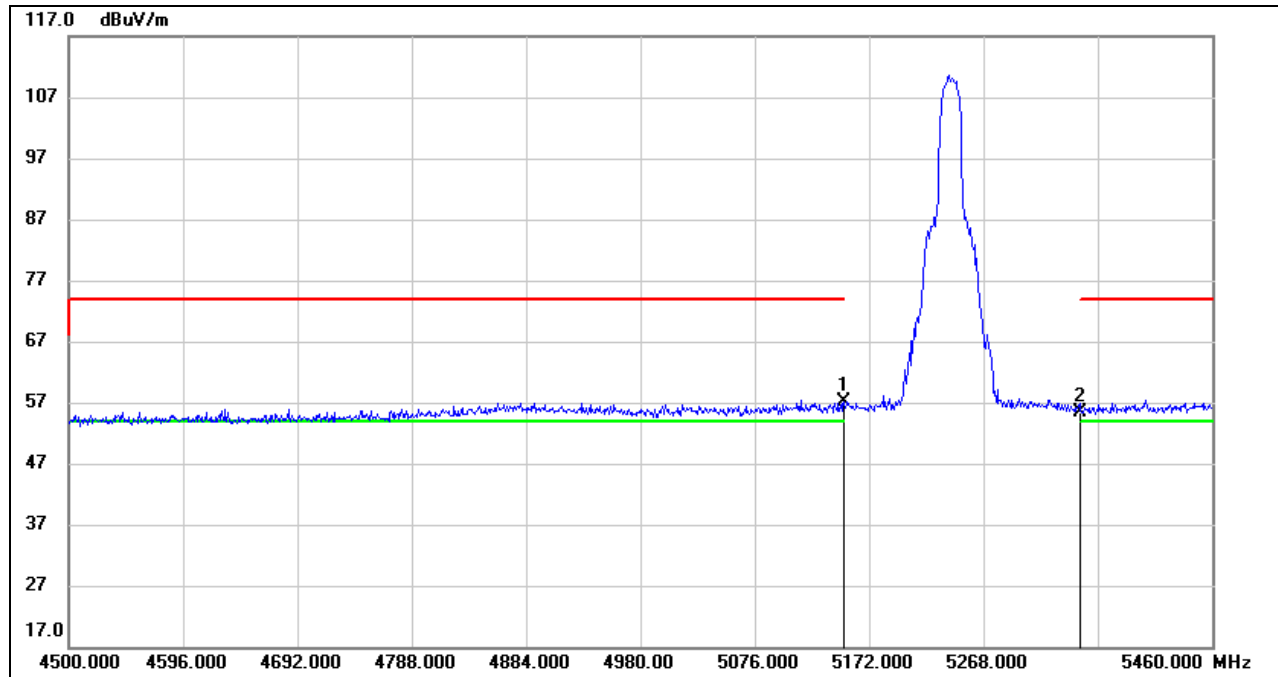
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	12.00	40.27	52.27	54.00	-1.73	AVG

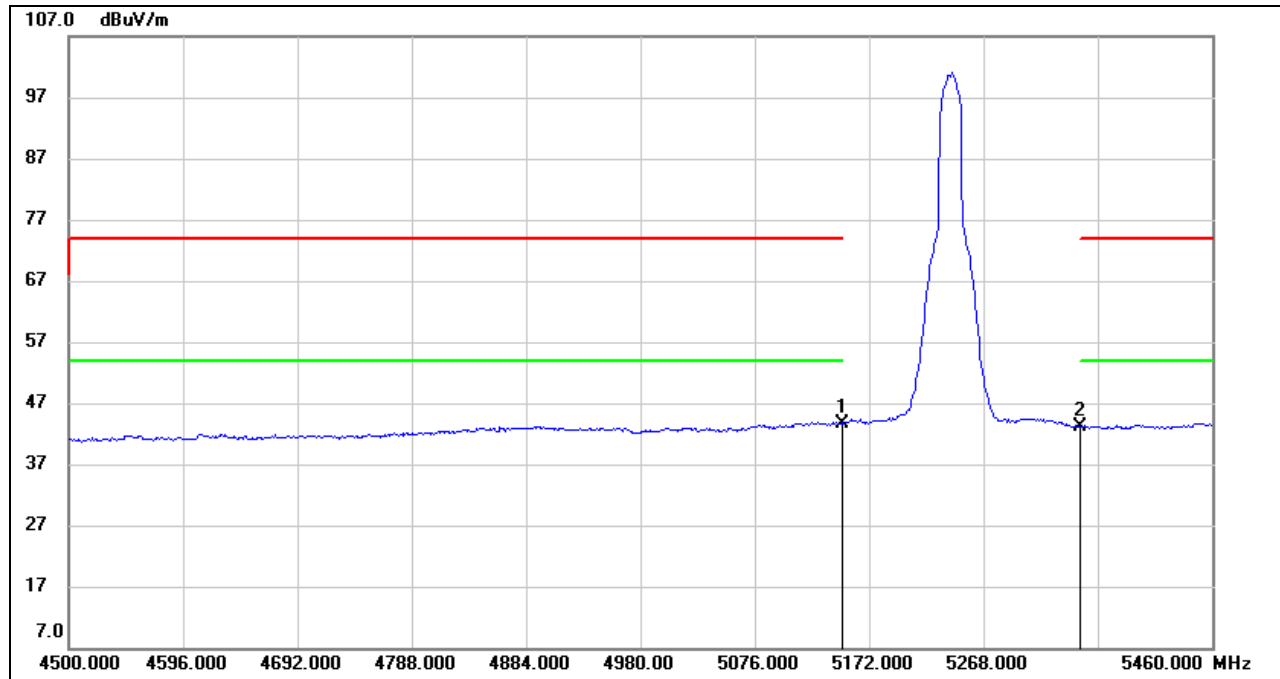
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)****PEAK**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	16.95	40.27	57.22	74.00	-16.78	peak
2	5350.000	14.82	40.49	55.31	74.00	-18.69	peak

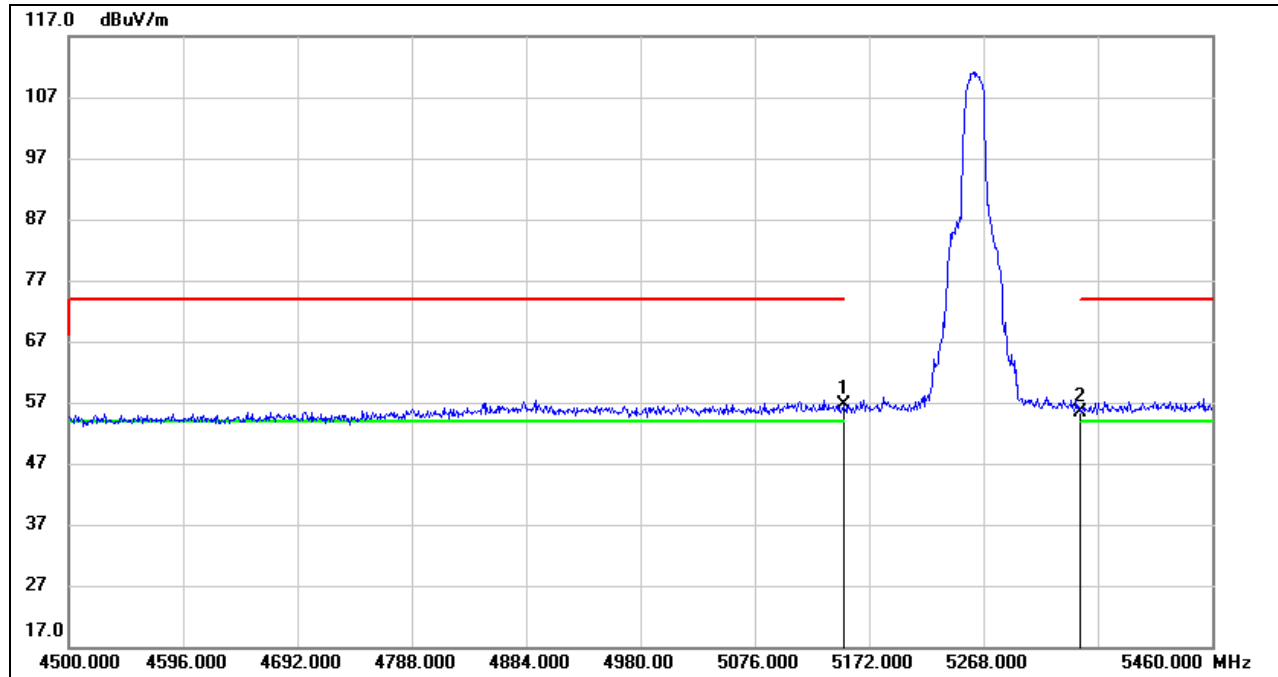
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.31	40.27	43.58	54.00	-10.42	AVG
2	5350.000	2.56	40.49	43.05	54.00	-10.95	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

UNII-2A BAND
ANTENNA 1 TEST RESULTS (WORST CASE)
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)
PEAK


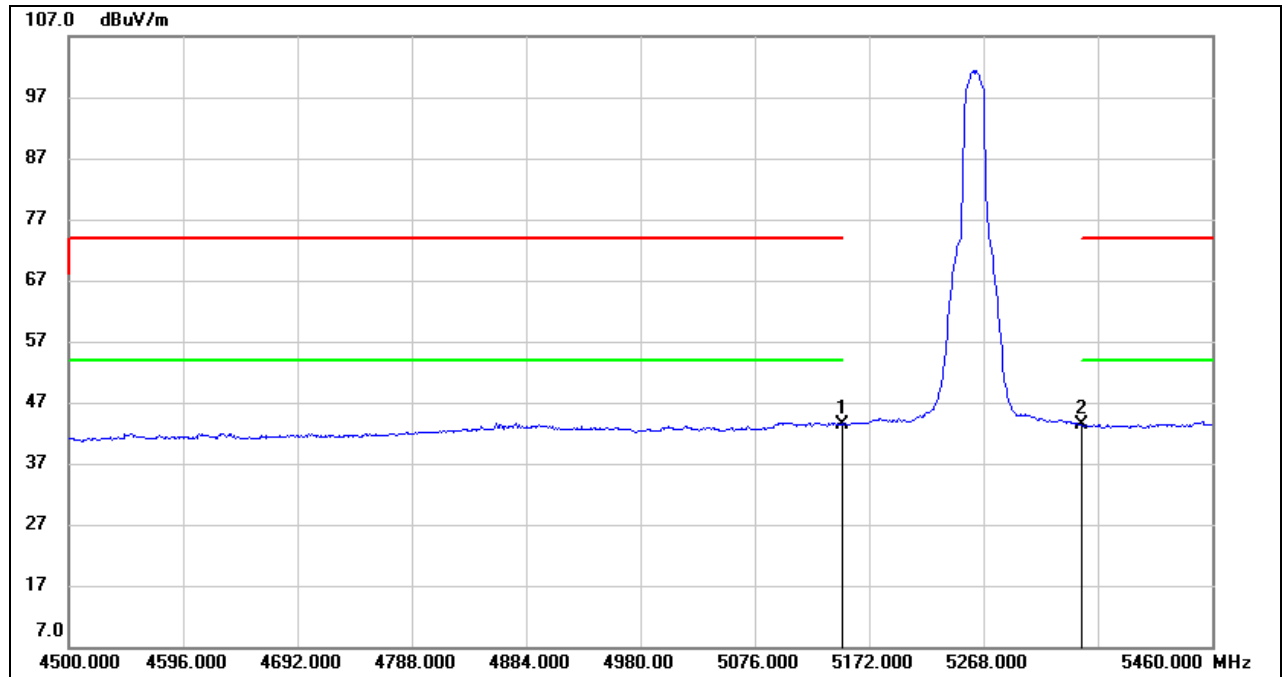
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	16.30	40.27	56.57	74.00	-17.43	peak
2	5350.000	14.93	40.49	55.42	74.00	-18.58	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

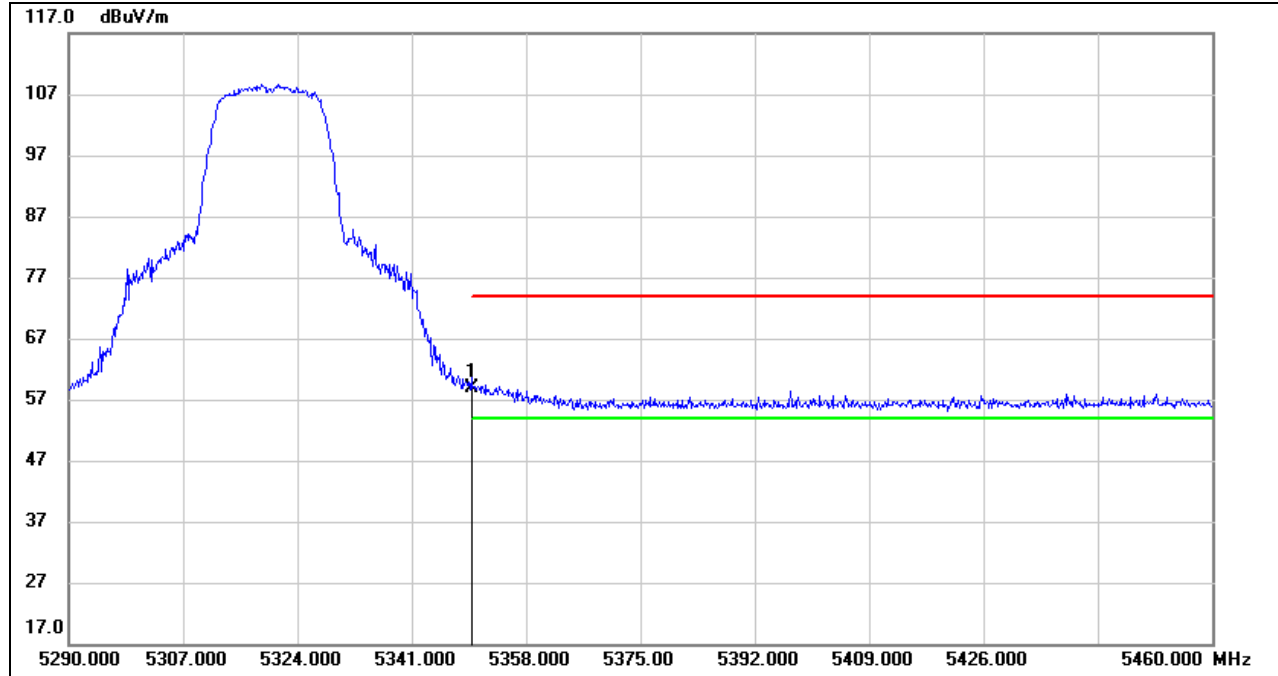
**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.23	40.27	43.50	54.00	-10.50	AVG
2	5350.000	2.78	40.49	43.27	54.00	-10.73	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

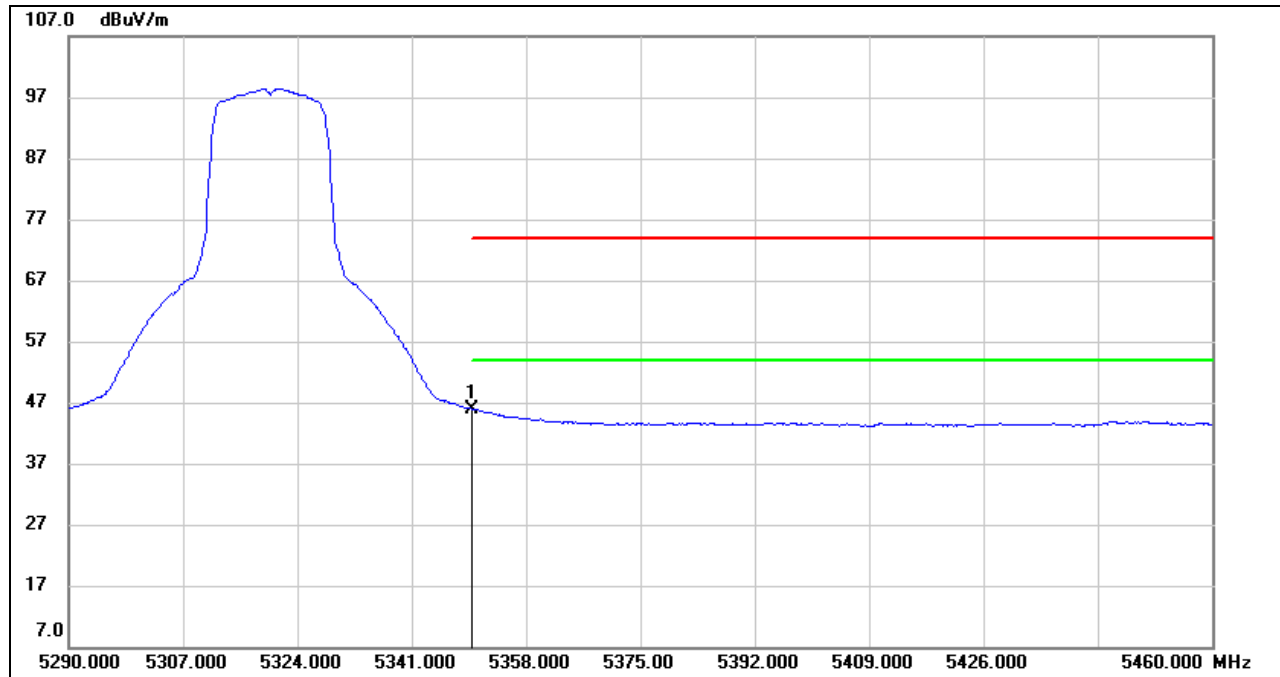


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	18.51	40.49	59.00	74.00	-15.00	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	5.45	40.49	45.94	54.00	-8.06	AVG

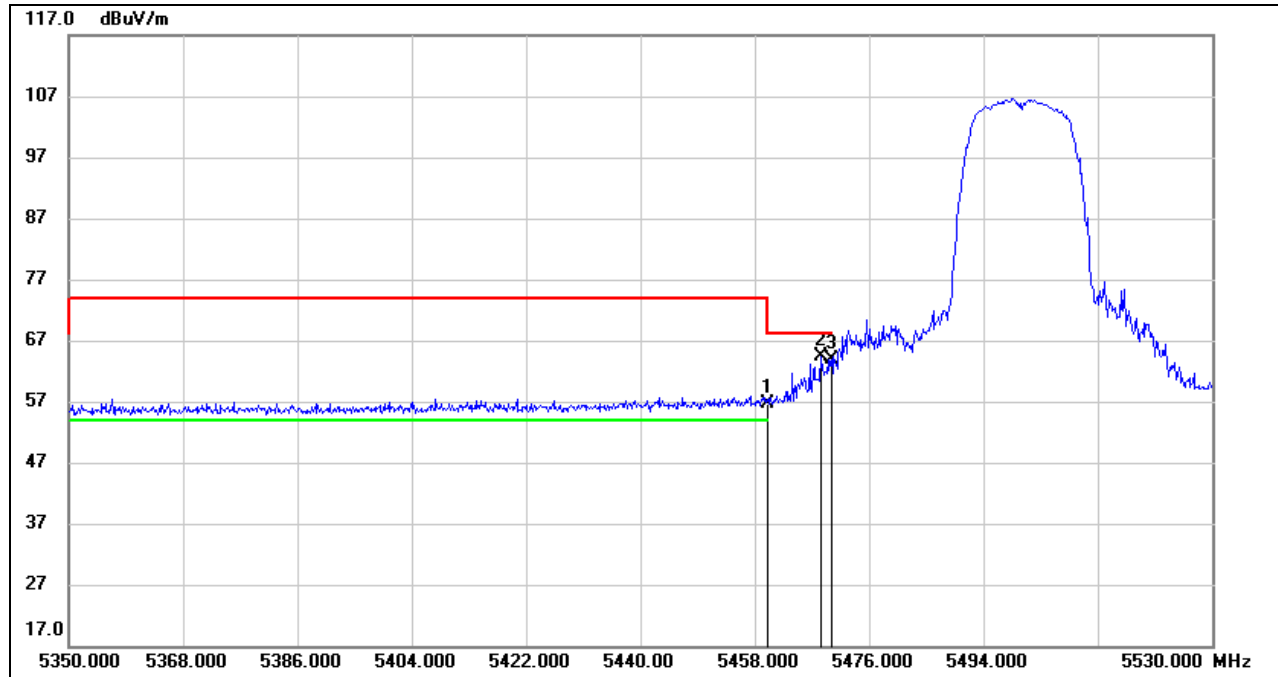
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

UNII-2C BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

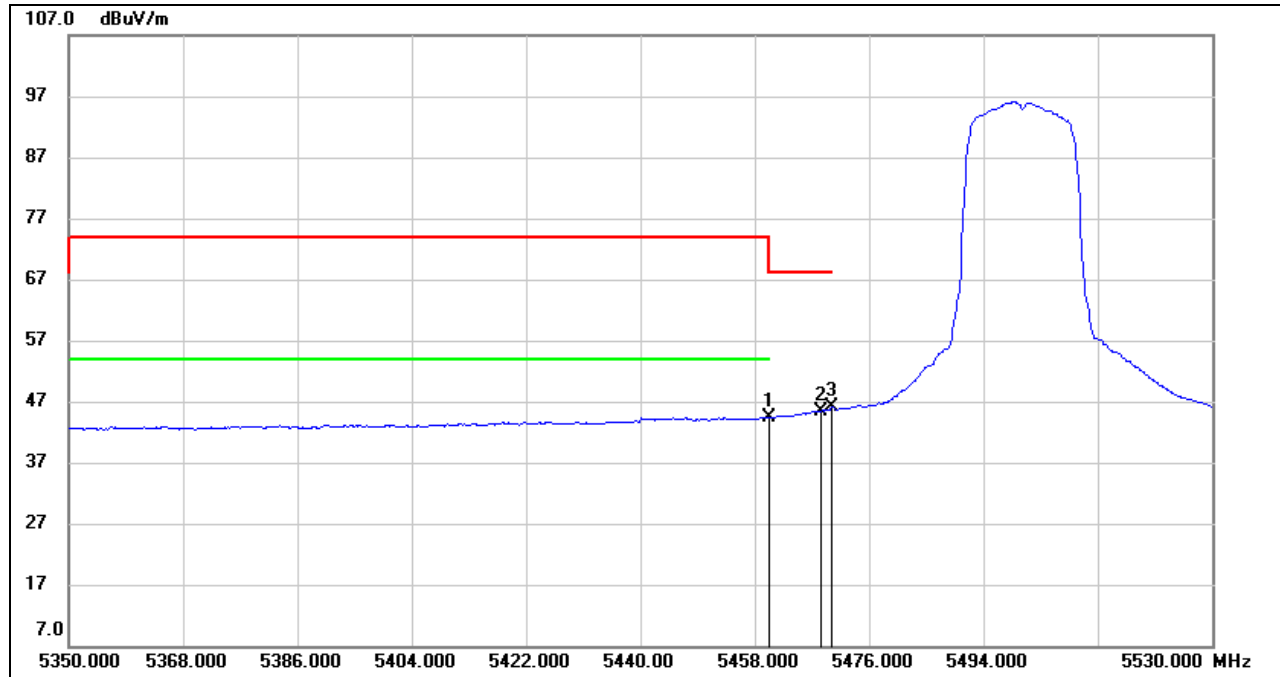


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	16.01	40.62	56.63	74.00	-17.37	peak
2	5468.440	23.70	40.63	64.33	68.20	-3.87	peak
3	5470.000	23.24	40.63	63.87	68.20	-4.33	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



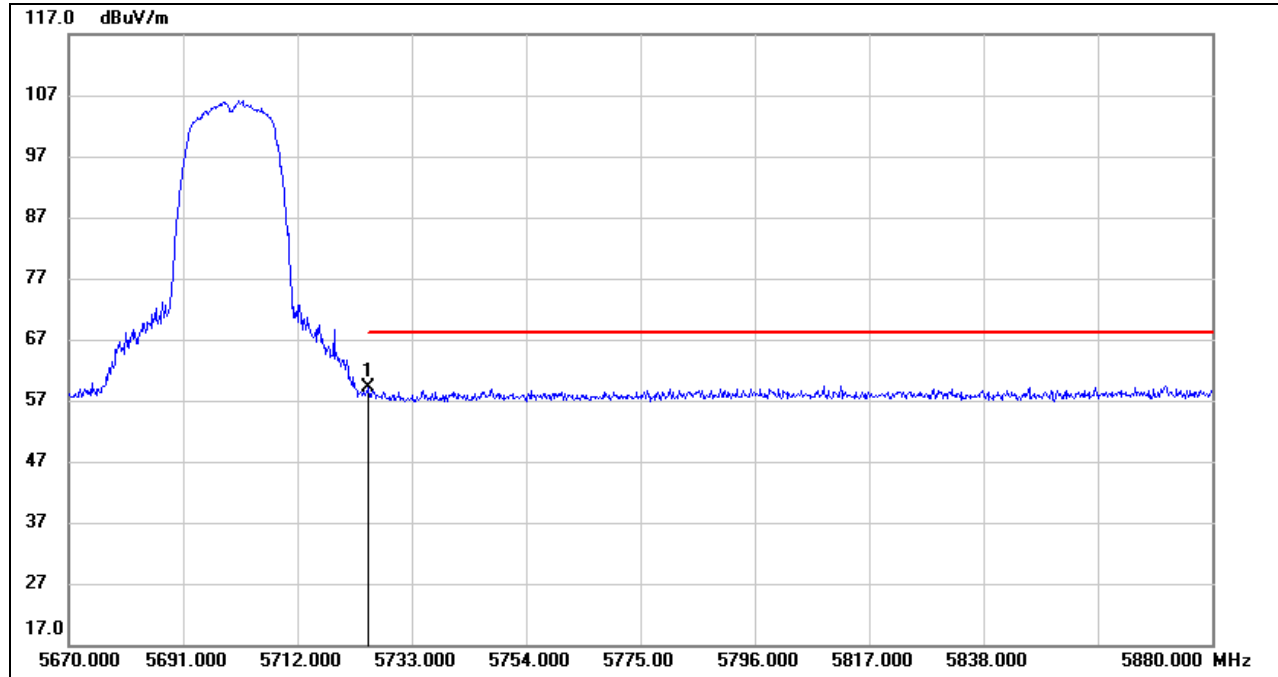
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	3.78	40.62	44.40	54.00	-9.60	AVG
2	5468.440	4.78	40.63	45.41	/	/	AVG
3	5470.000	5.41	40.63	46.04	/	/	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

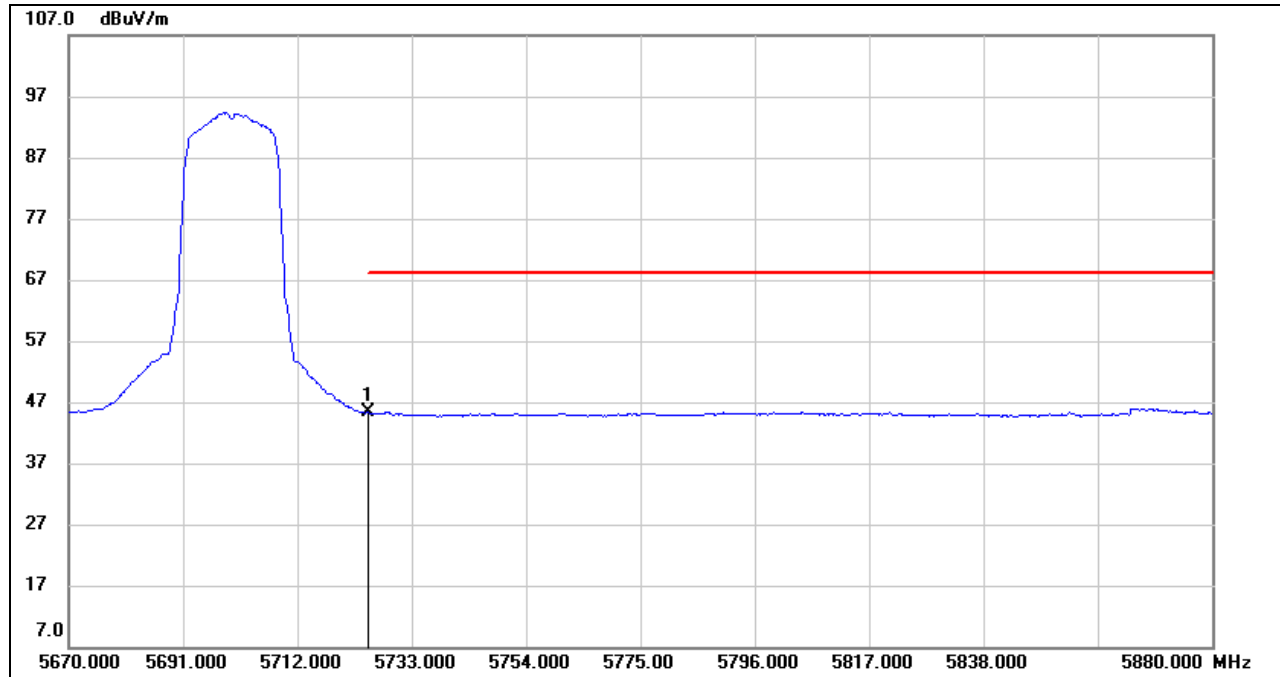


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	17.81	41.27	59.08	68.20	-9.12	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	4.02	41.27	45.29	68.20	-22.91	AVG

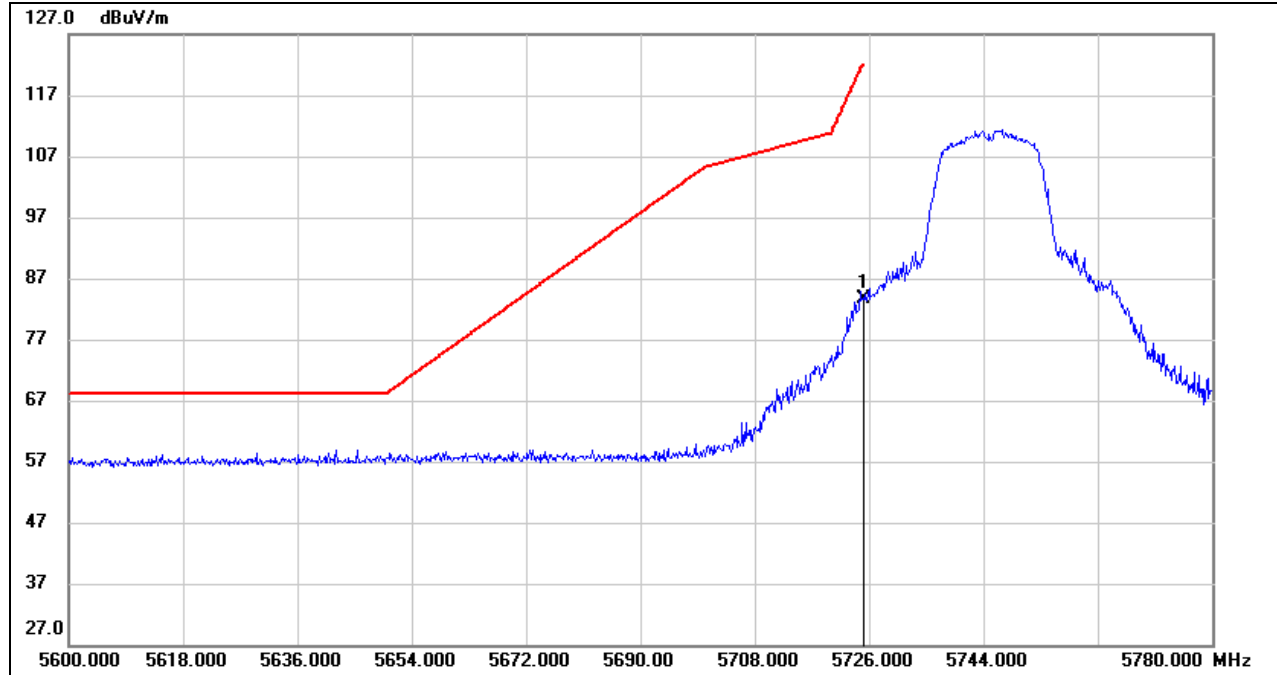
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

UNII-3 BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

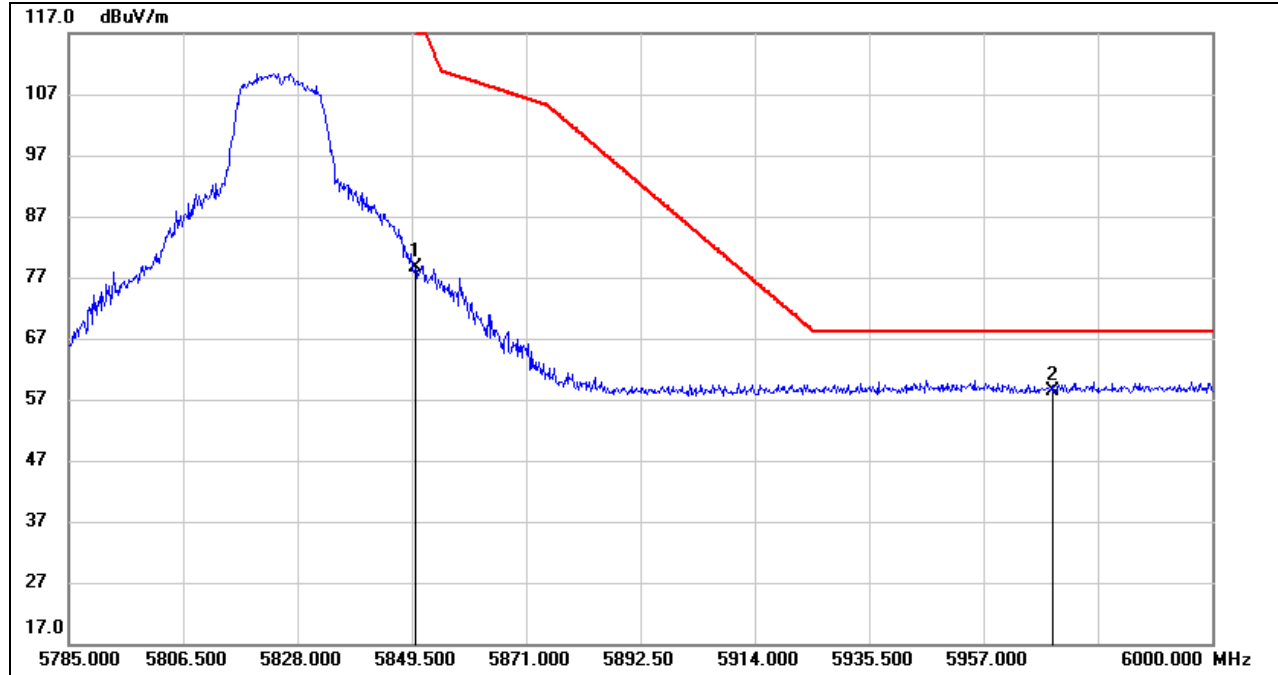


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	42.48	41.27	83.75	122.20	-38.45	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	37.06	41.60	78.66	122.20	-43.54	peak
2	5970.000	16.35	41.92	58.27	68.20	-9.93	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

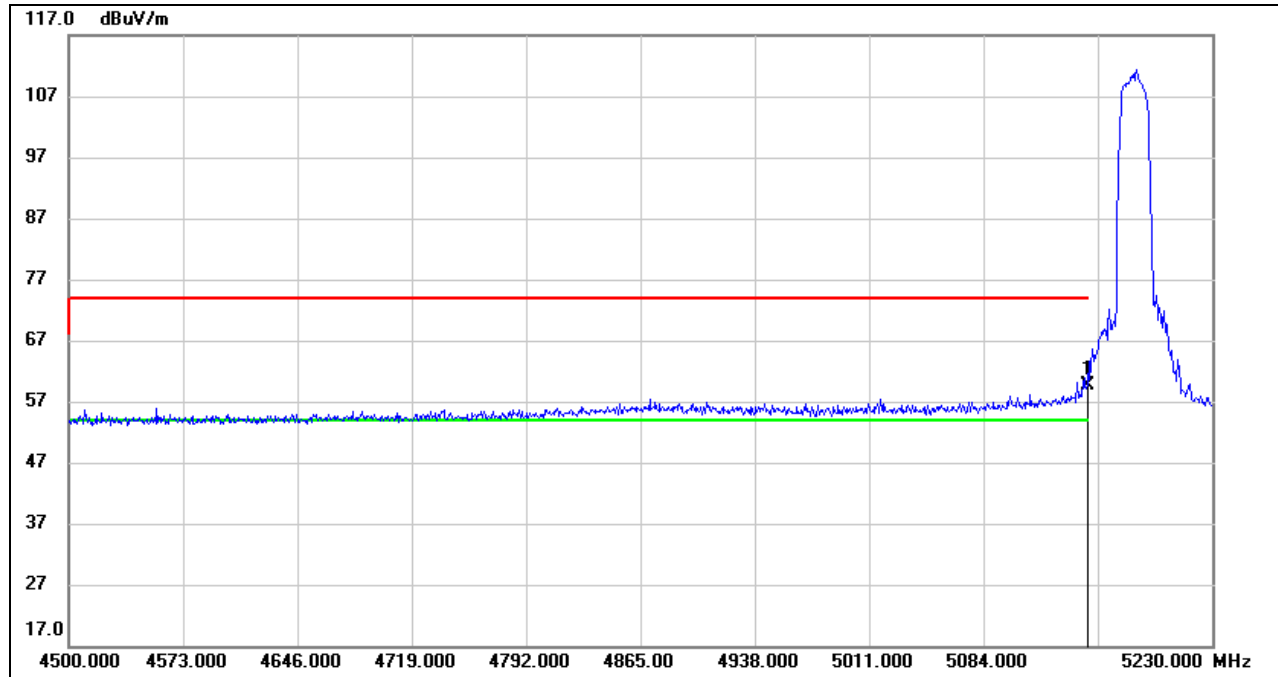
Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

8.1.2. 802.11n HT20 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

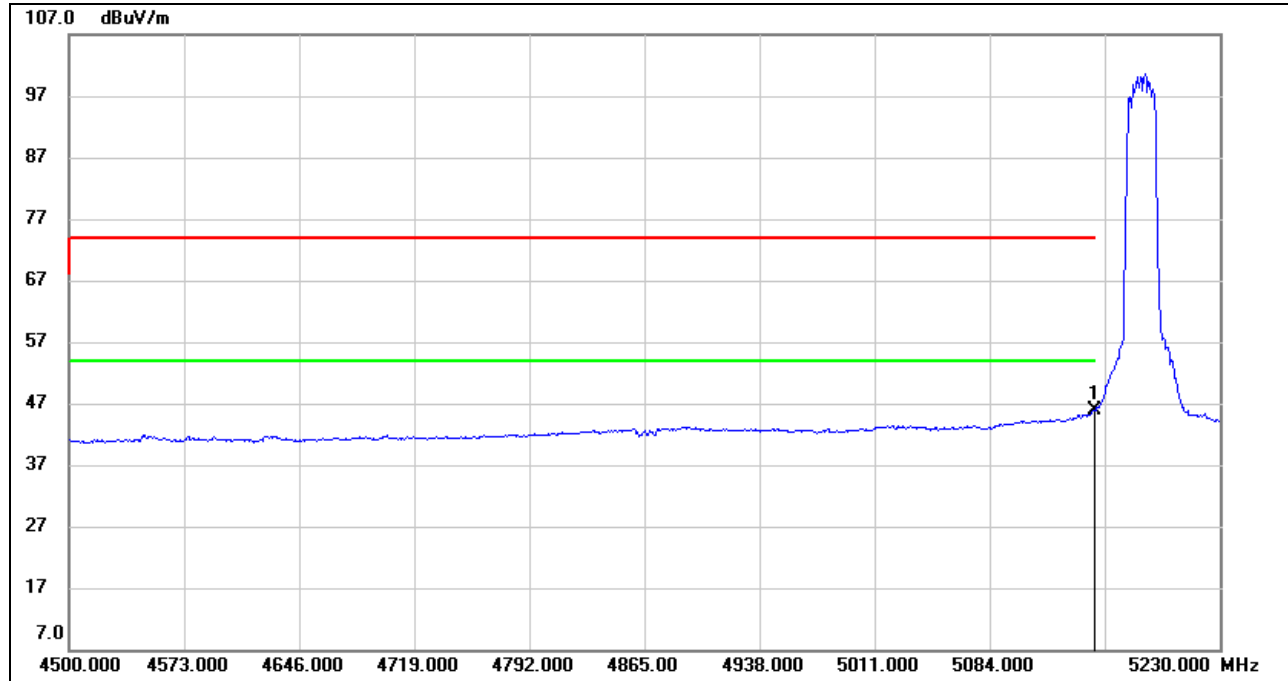


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	19.31	40.27	59.58	74.00	-14.42	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG

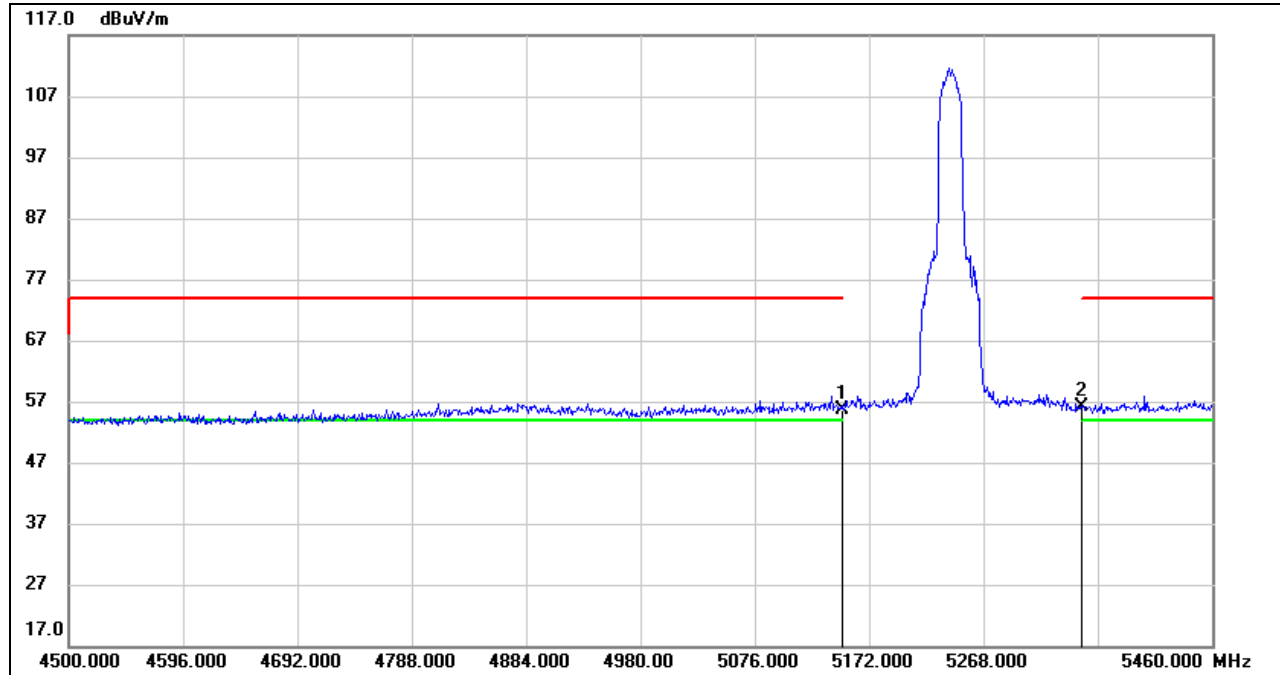


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	5.67	40.27	45.94	54.00	-8.06	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

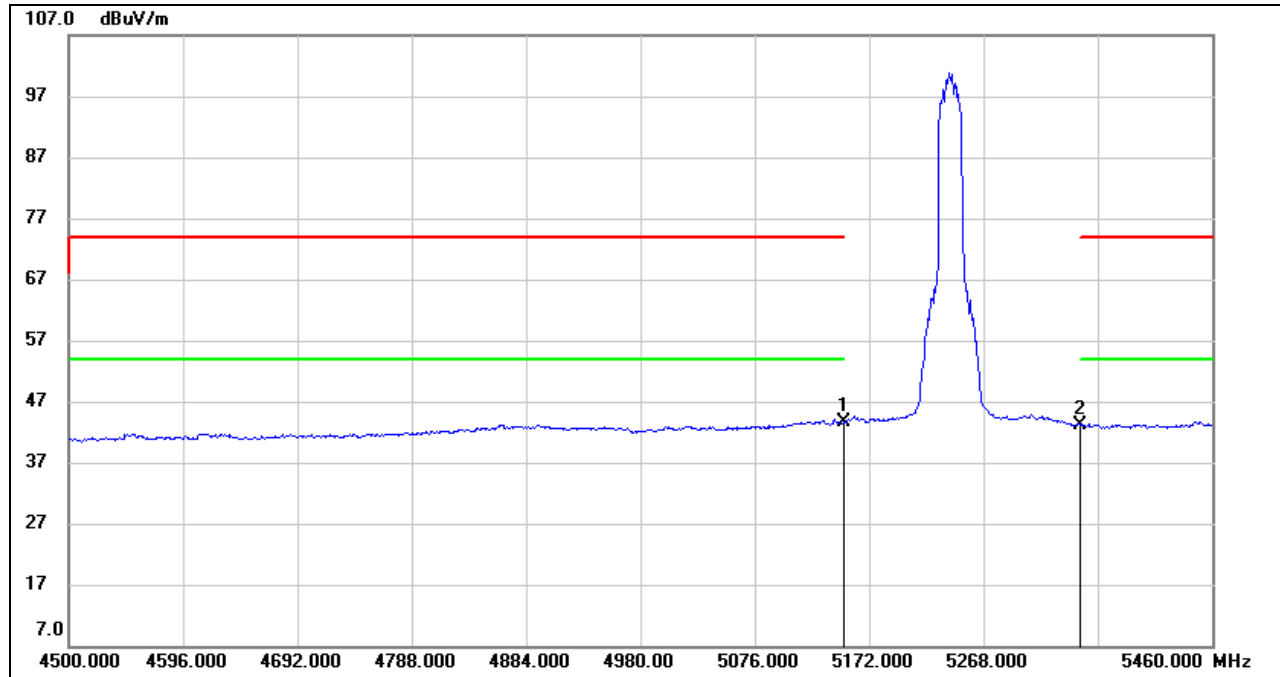
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.30	40.27	55.57	74.00	-18.43	peak
2	5350.000	15.72	40.49	56.21	74.00	-17.79	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.27	40.27	43.54	54.00	-10.46	AVG
2	5350.000	2.60	40.49	43.09	54.00	-10.91	AVG

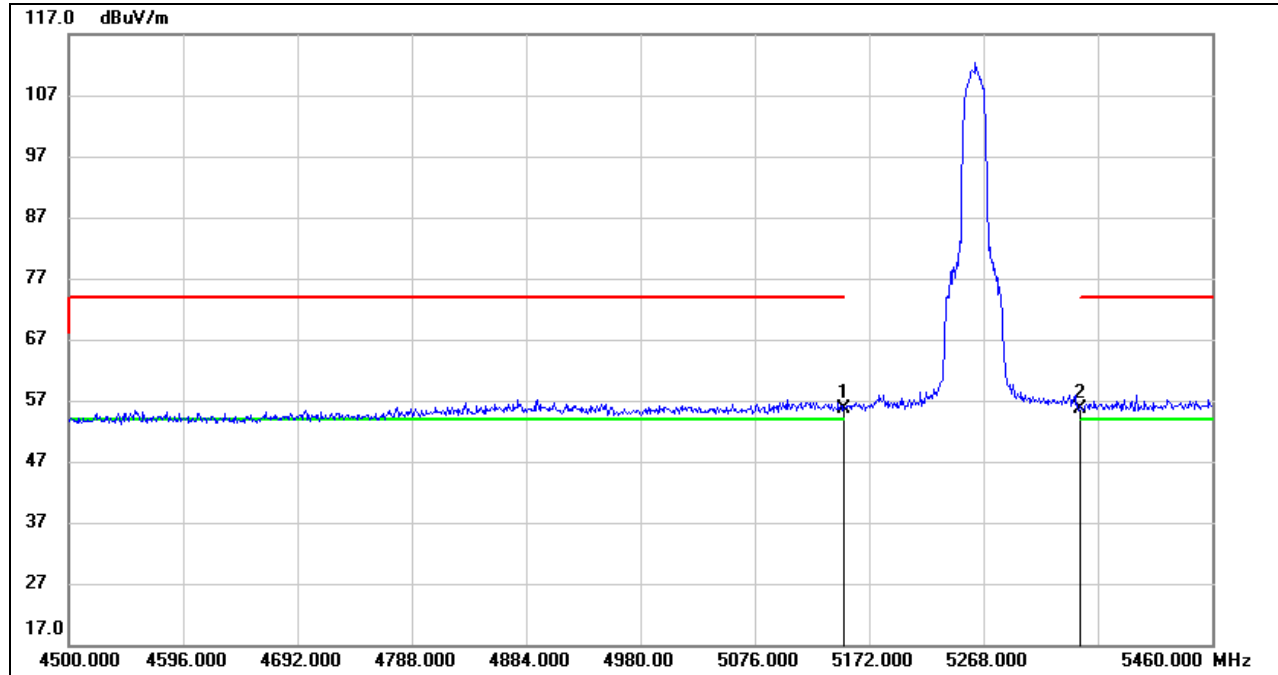
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



UNII-2A BAND

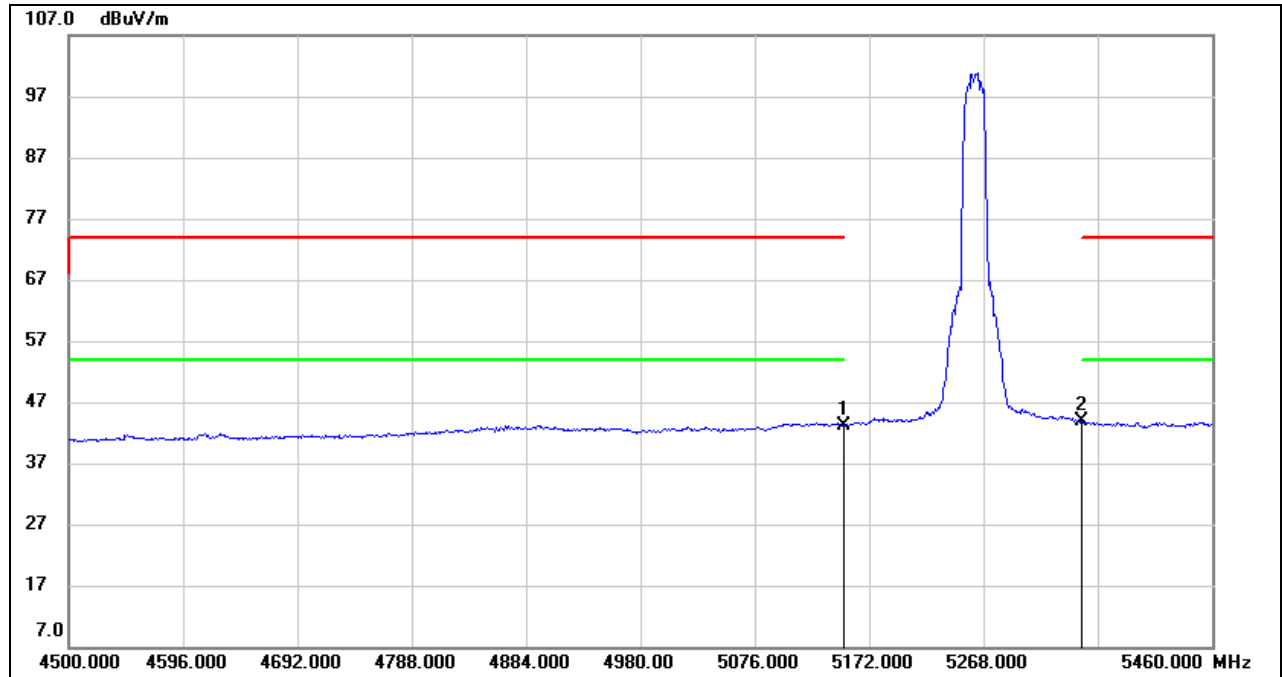
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.42	40.27	55.69	74.00	-18.31	peak
2	5350.000	15.17	40.49	55.66	74.00	-18.34	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

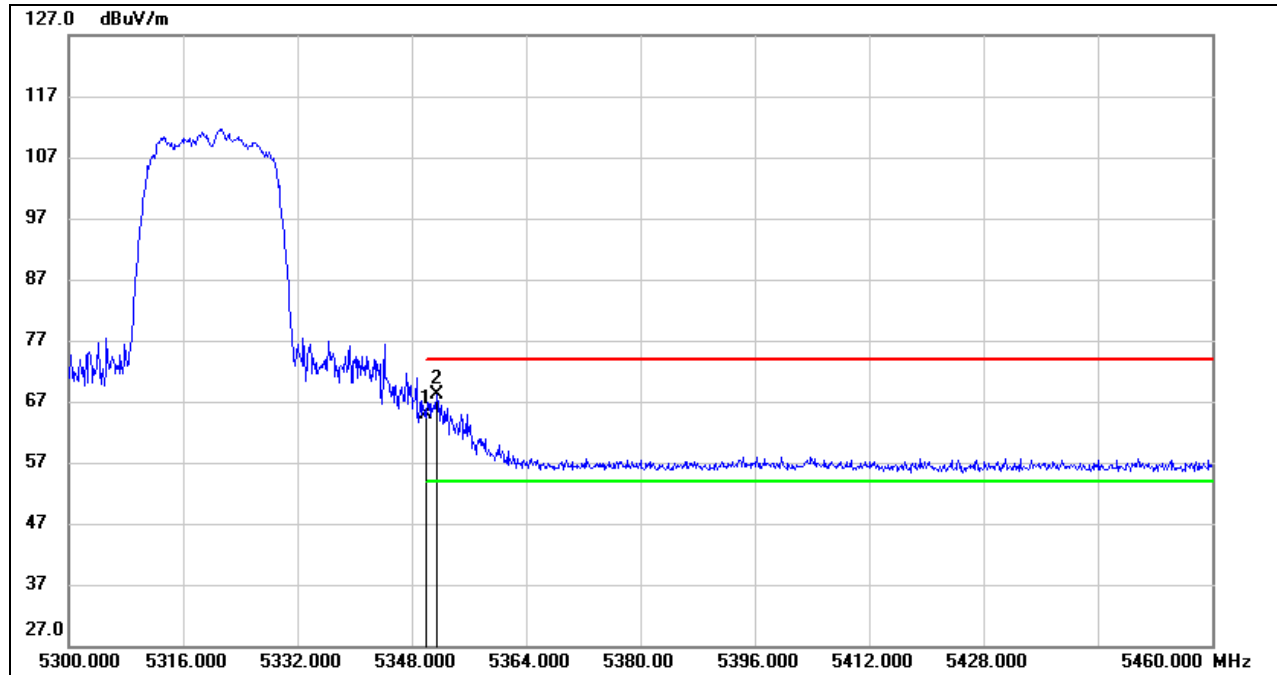
**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	2.97	40.27	43.24	54.00	-10.76	AVG
2	5350.000	3.34	40.49	43.83	54.00	-10.17	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

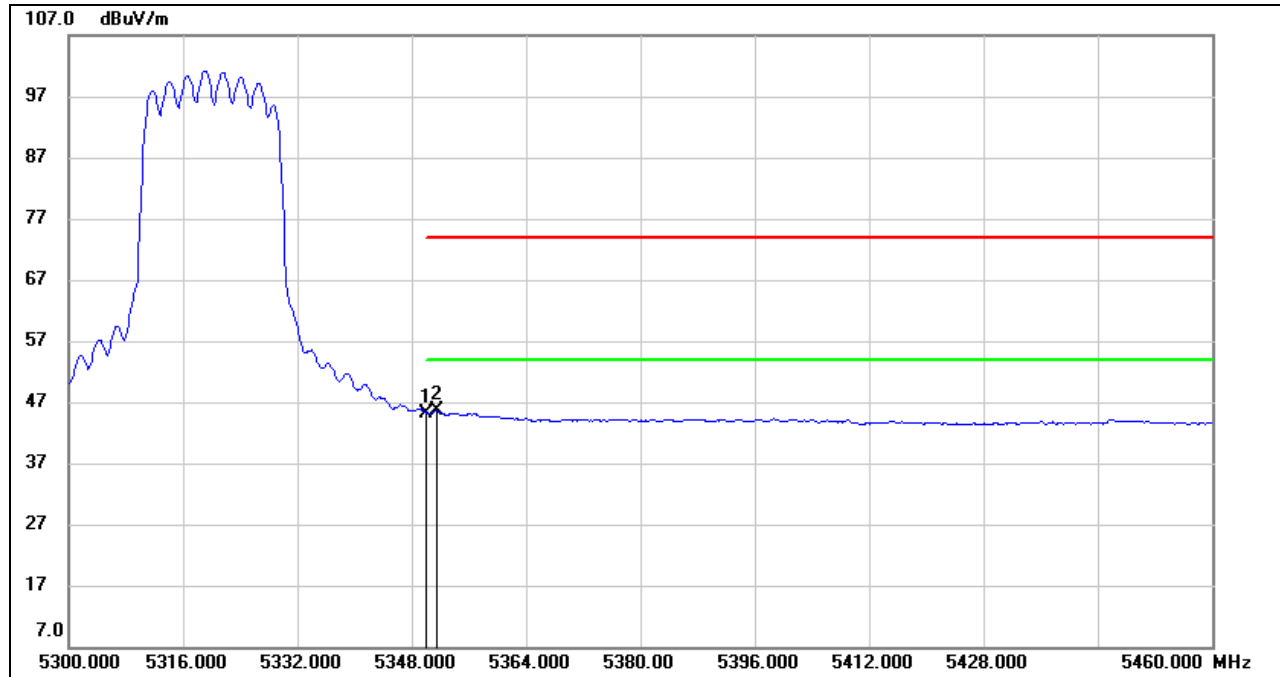


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	24.31	40.49	64.80	74.00	-9.20	peak
2	5351.520	27.55	40.49	68.04	74.00	-5.96	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	4.71	40.49	45.20	54.00	-8.80	AVG
2	5351.520	5.05	40.49	45.54	54.00	-8.46	AVG

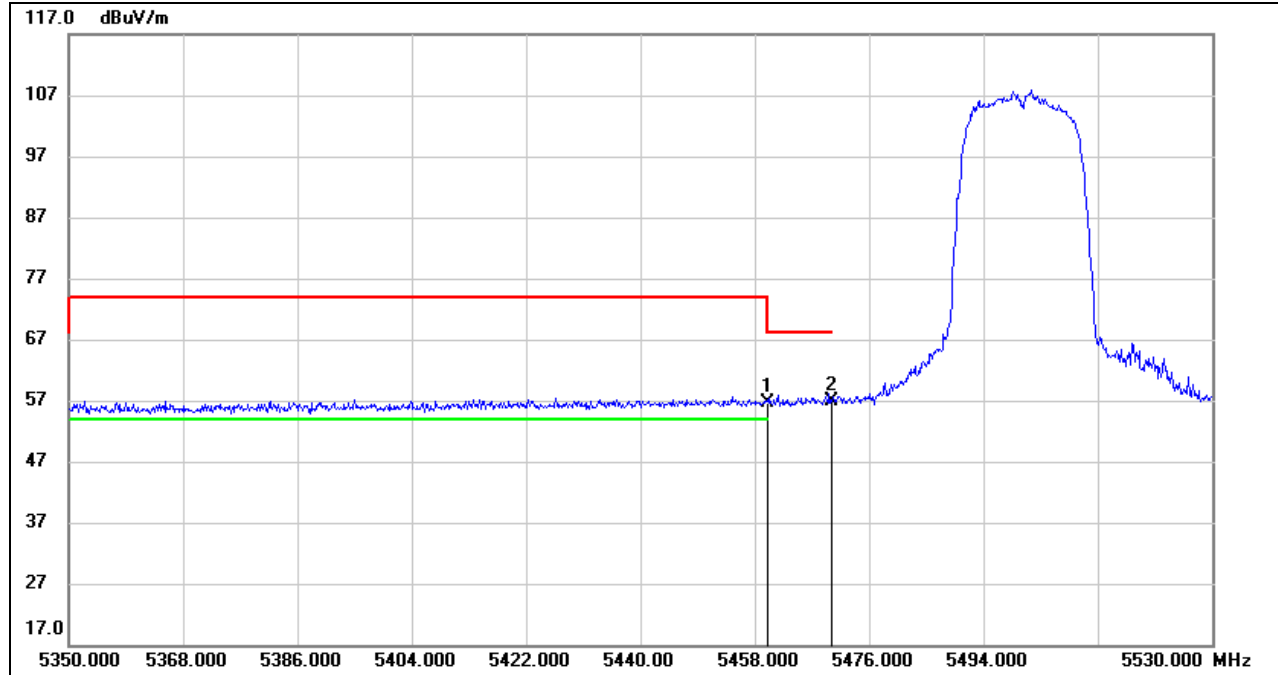
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



UNII-2C BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

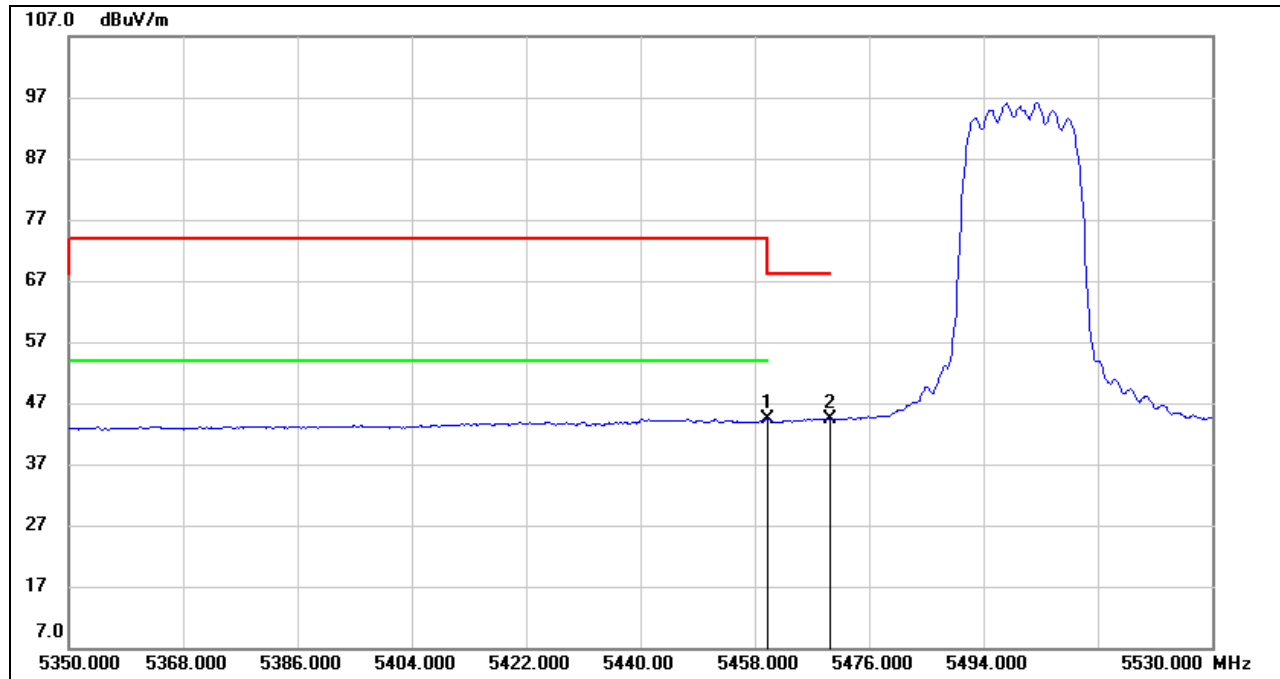


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	16.04	40.62	56.66	74.00	-17.34	peak
2	5470.000	16.35	40.63	56.98	68.20	-11.22	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



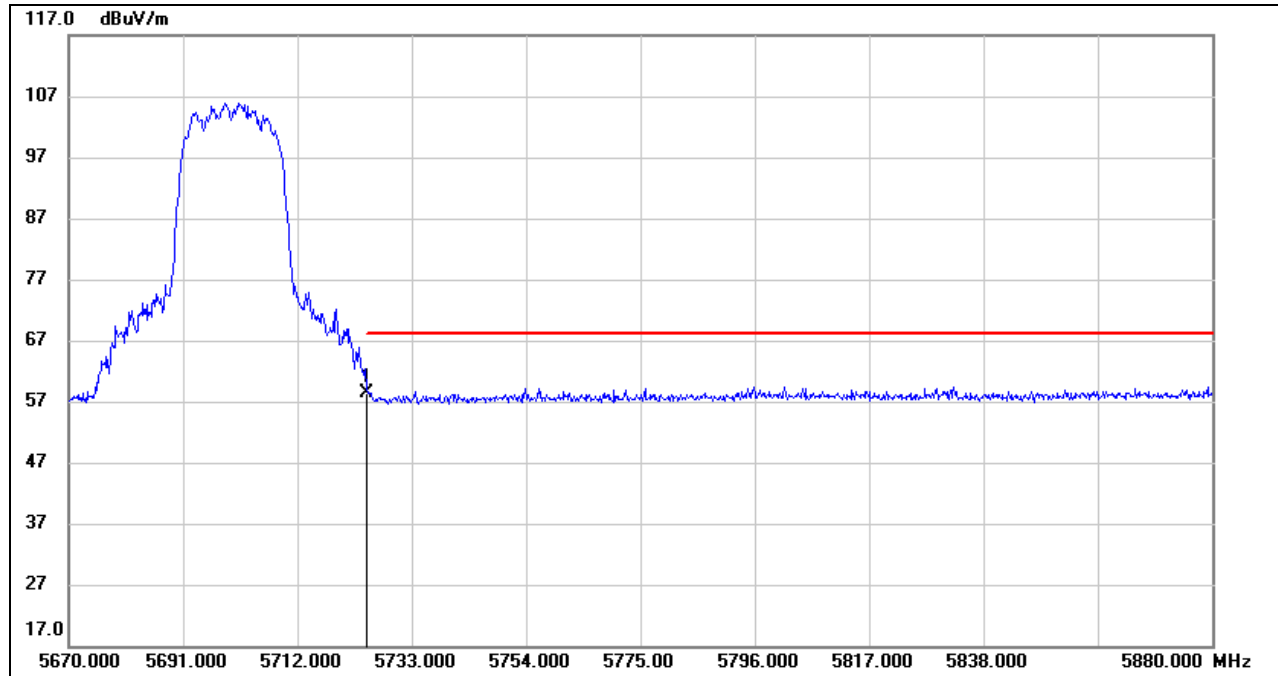
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	3.71	40.62	44.33	54.00	-9.67	AVG
2	5470.000	3.75	40.63	44.38	/	/	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



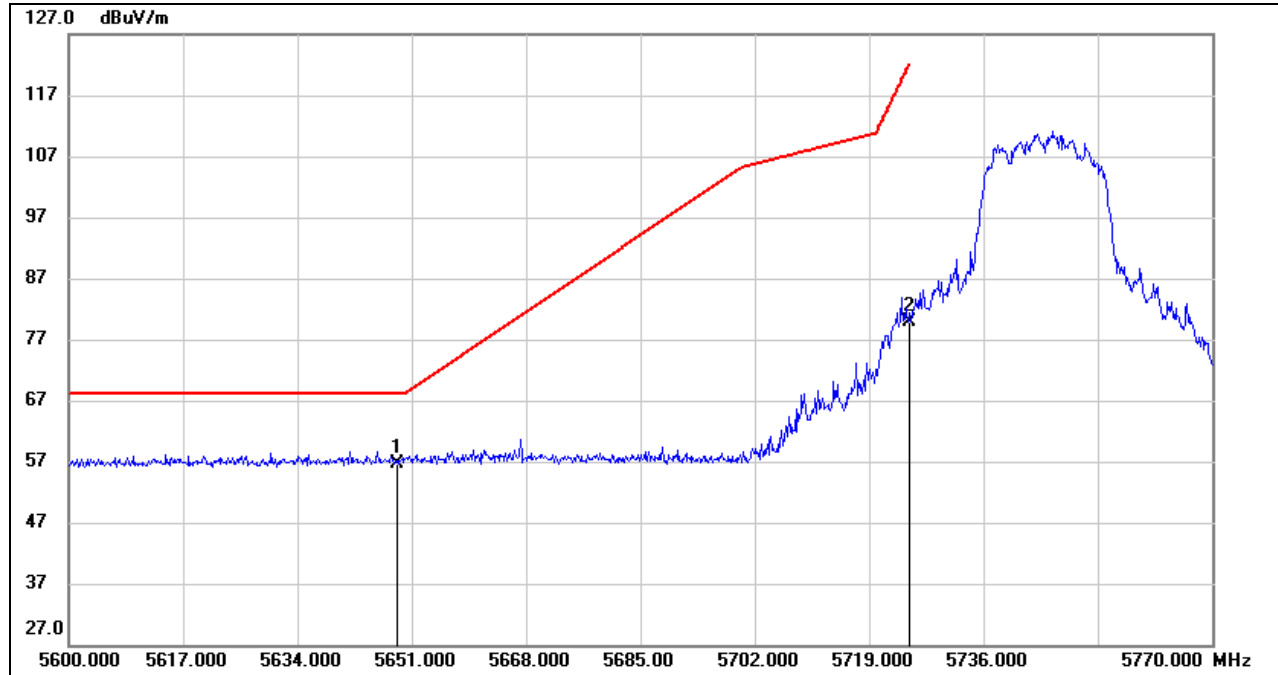
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	17.08	41.27	58.35	68.20	-9.85	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

UNII-3 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

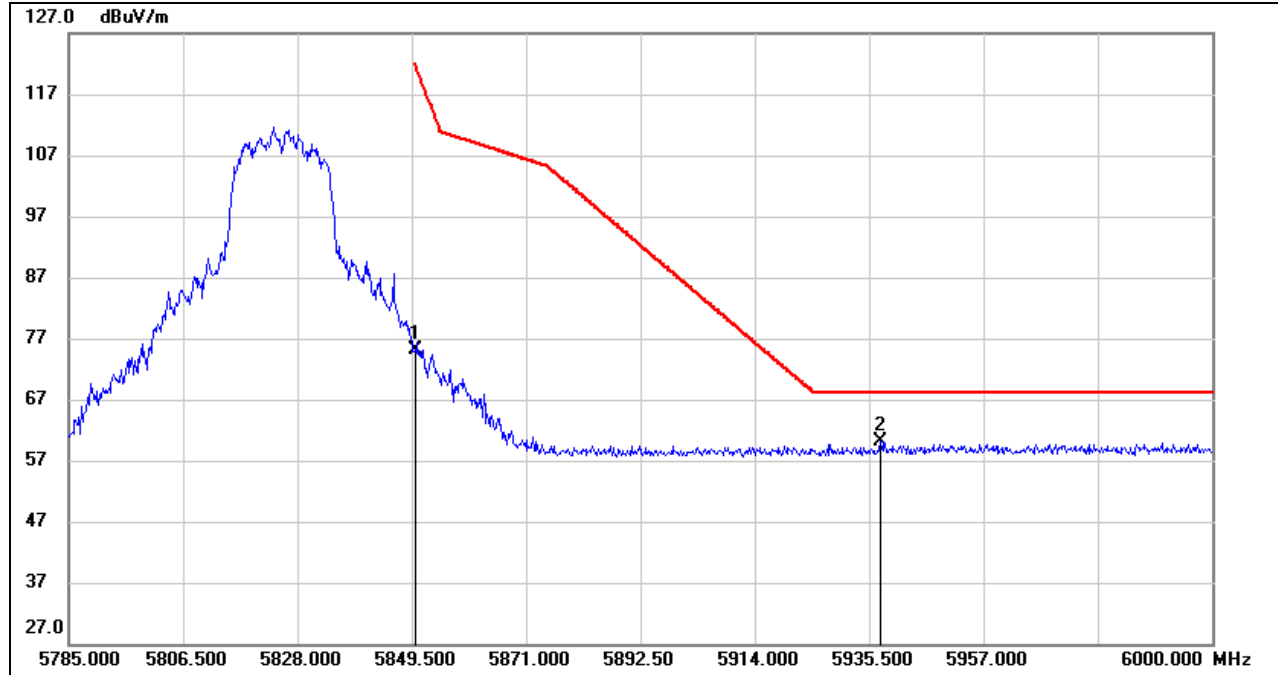


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.800	15.49	41.06	56.55	68.20	-11.65	peak
2	5725.000	38.71	41.27	79.98	122.20	-42.22	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	33.51	41.60	75.11	122.20	-47.09	peak
2	5937.650	18.32	41.84	60.16	68.20	-8.04	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

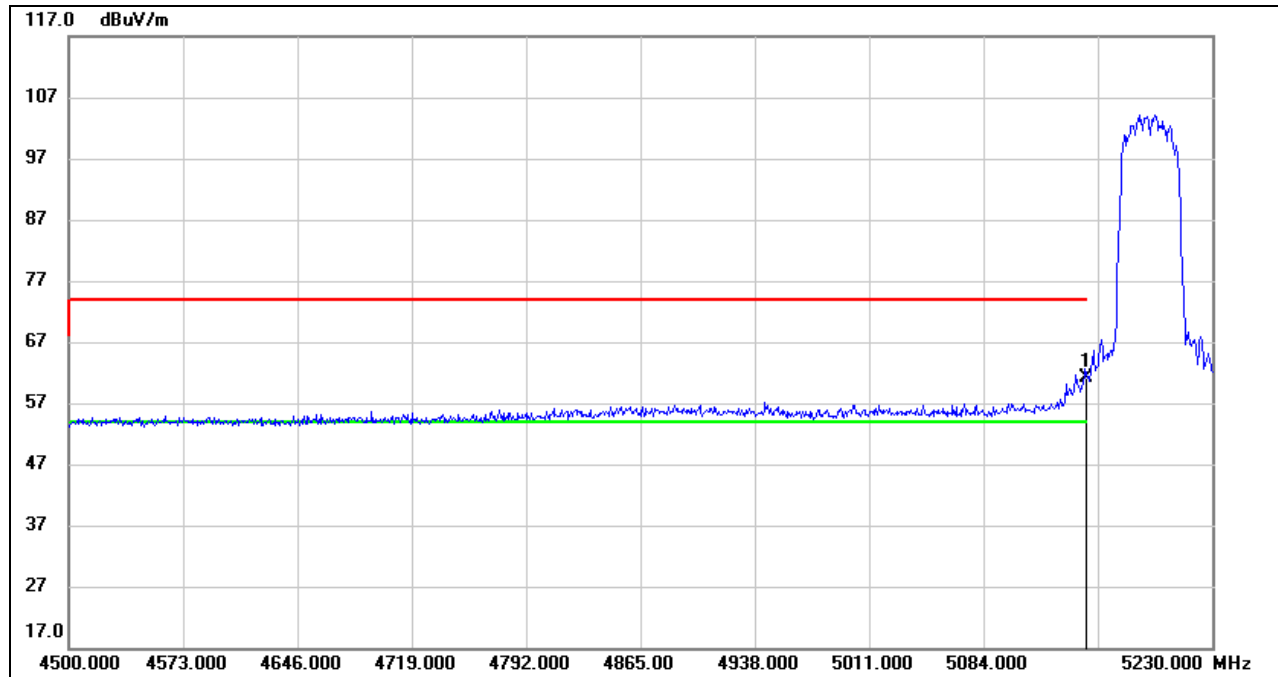
Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

8.1.3. 802.11n HT40 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

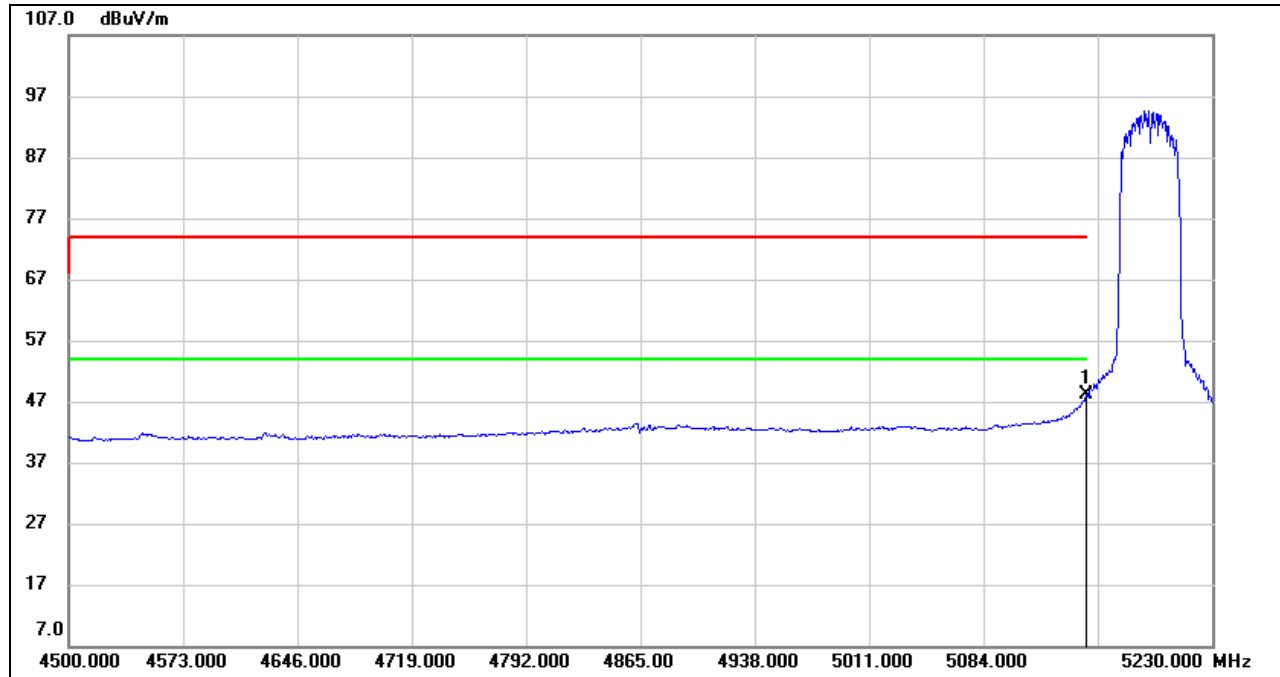
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	20.92	40.27	61.19	74.00	-12.81	peak

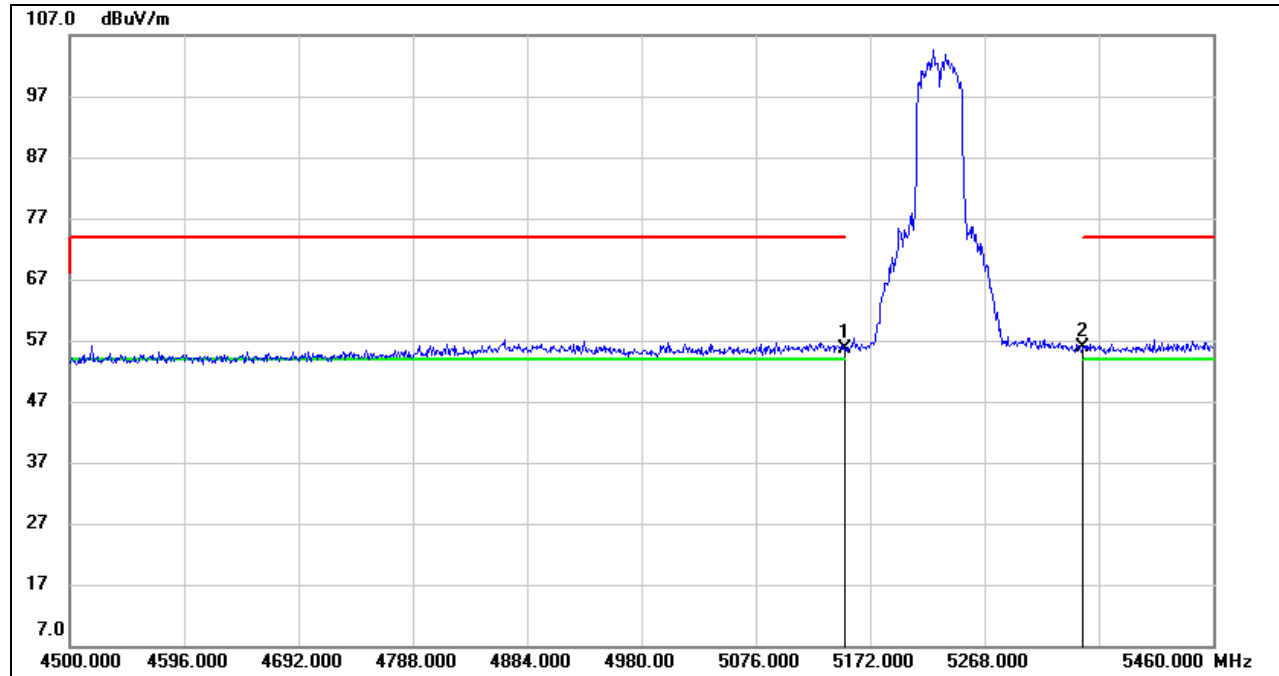
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	7.87	40.27	48.14	54.00	-5.86	AVG

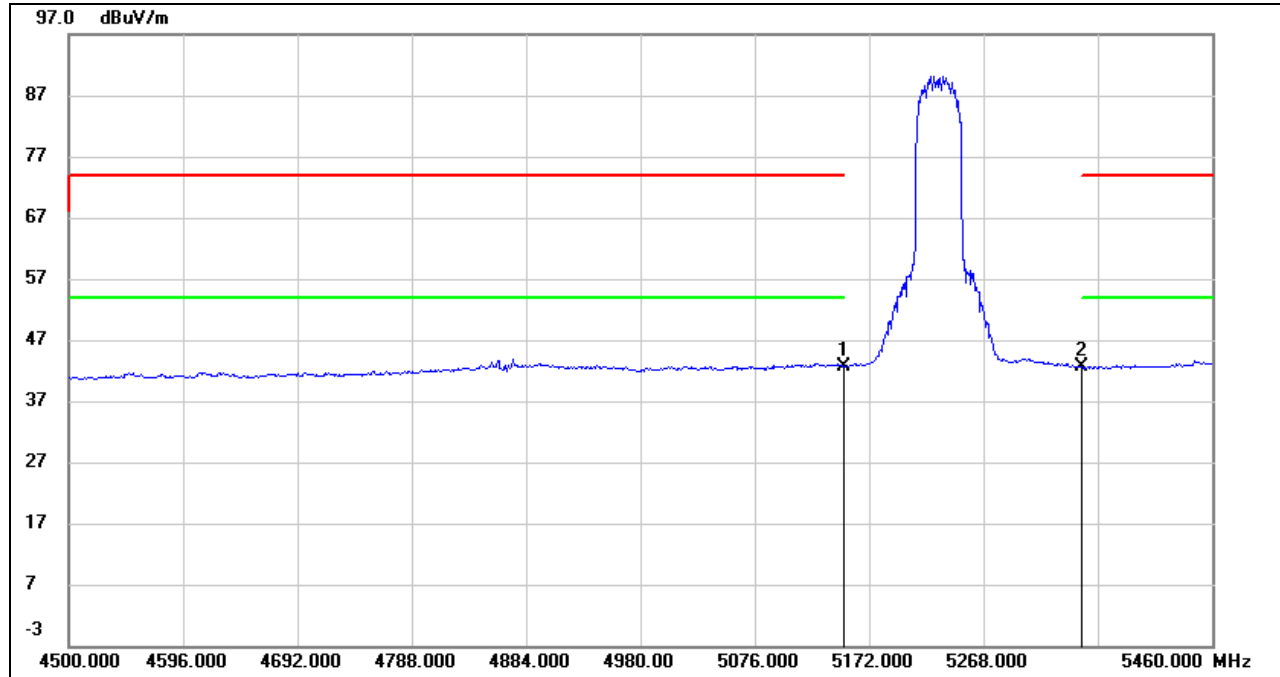
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)****PEAK**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.37	40.27	55.64	74.00	-18.36	peak
2	5350.000	15.35	40.49	55.84	74.00	-18.16	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



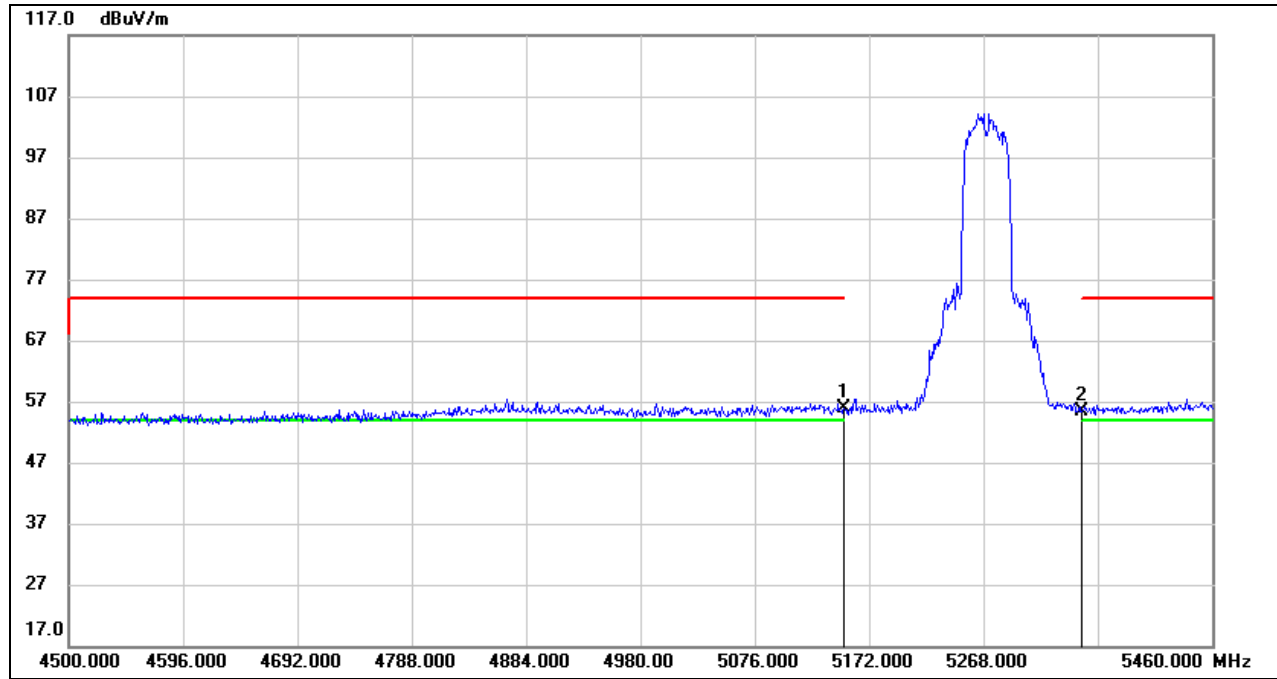
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	2.44	40.27	42.71	54.00	-11.29	AVG
2	5350.000	2.07	40.49	42.56	54.00	-11.44	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

UNII-2A BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

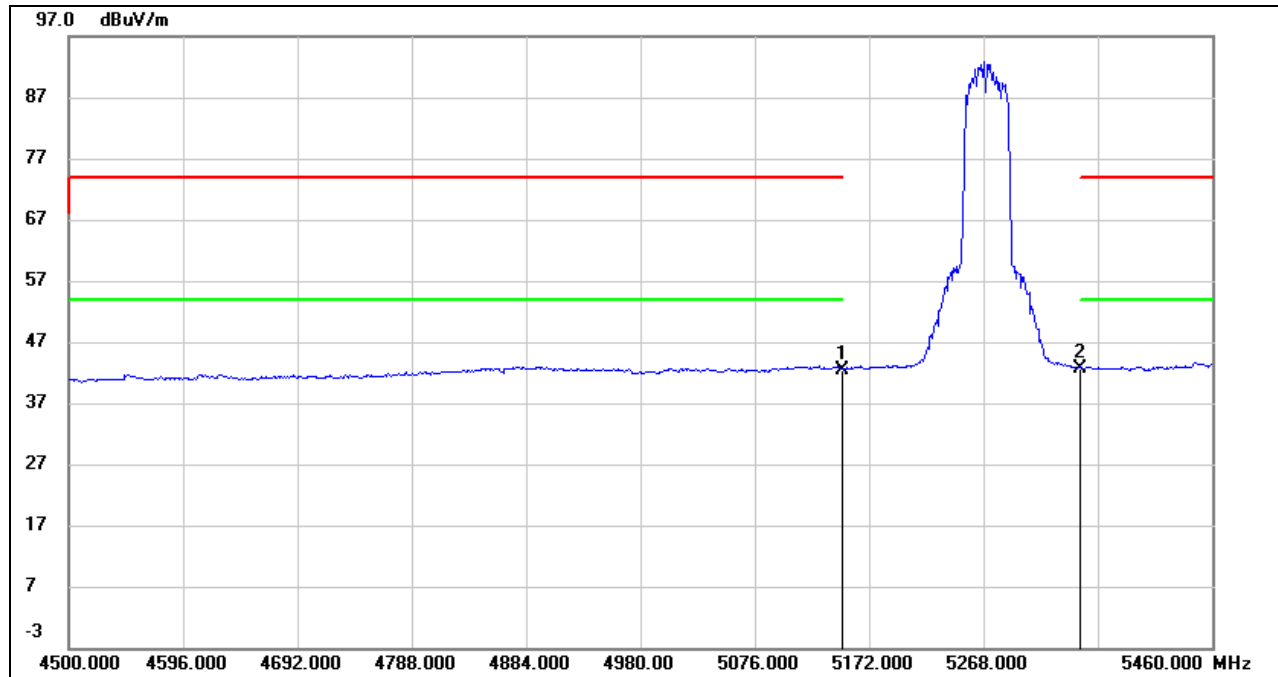
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.65	40.27	55.92	74.00	-18.08	peak
2	5350.000	14.81	40.49	55.30	74.00	-18.70	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



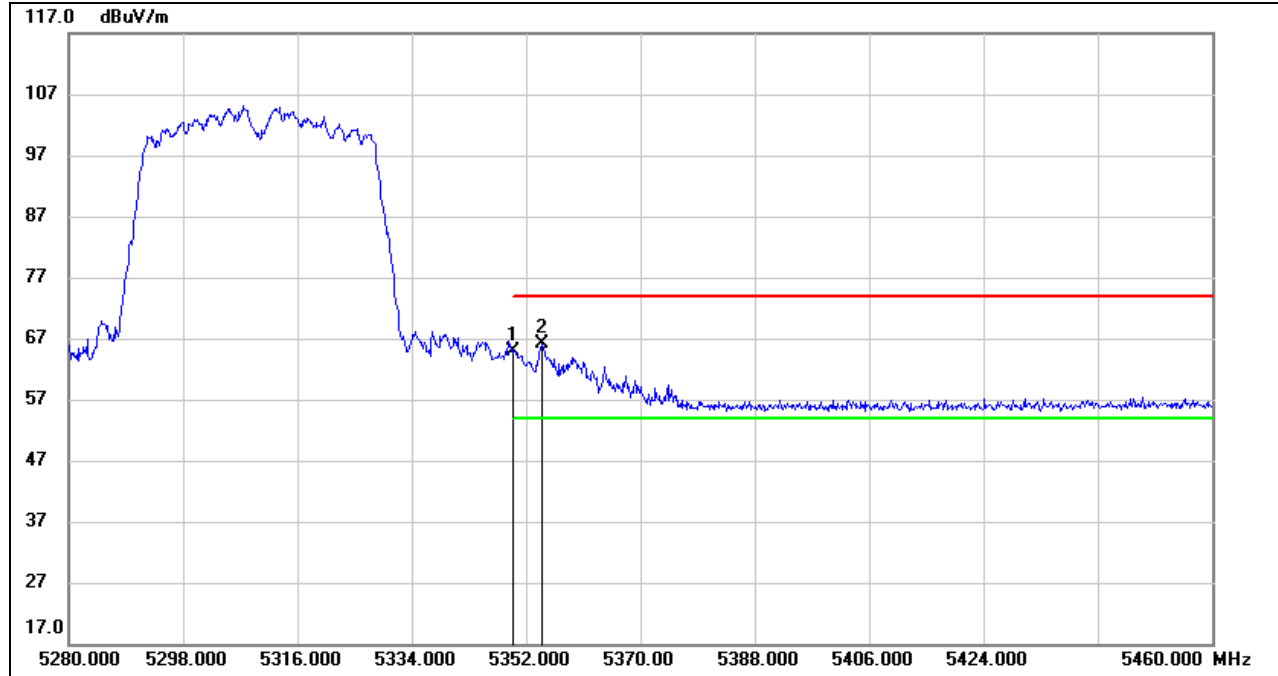
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	2.20	40.27	42.47	54.00	-11.53	AVG
2	5350.000	2.26	40.49	42.75	54.00	-11.25	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

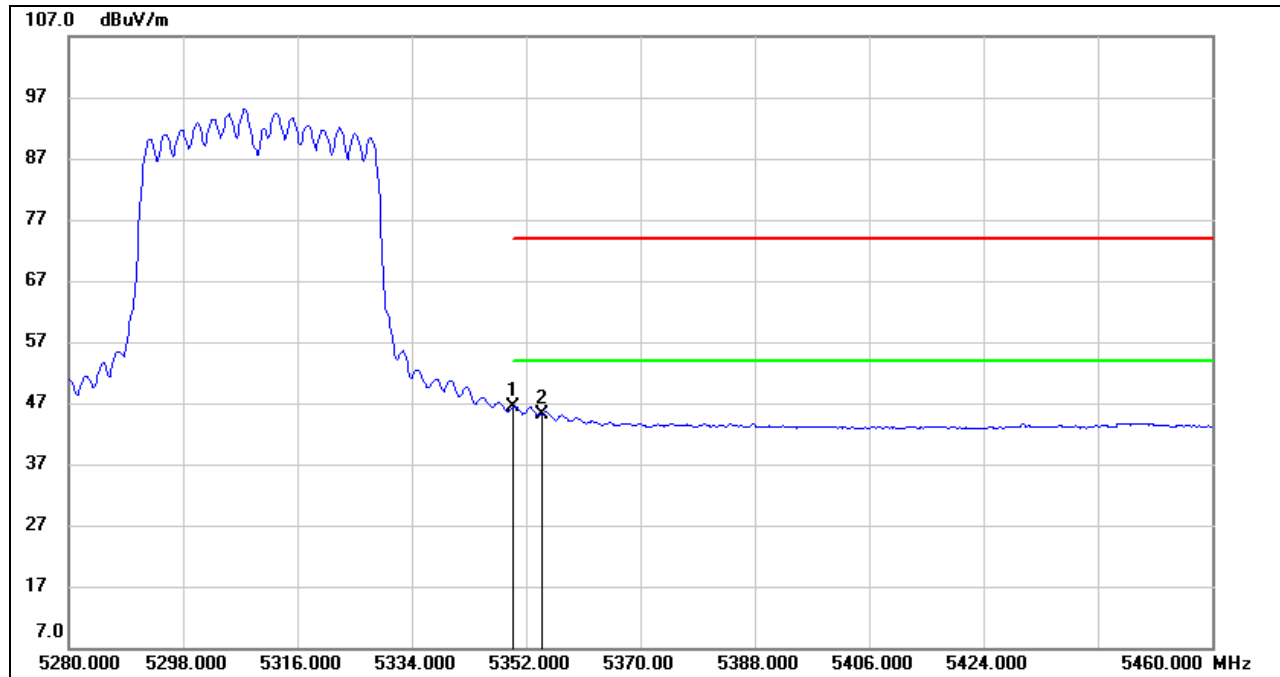
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	24.45	40.49	64.94	74.00	-9.06	peak
2	5354.520	25.51	40.50	66.01	74.00	-7.99	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



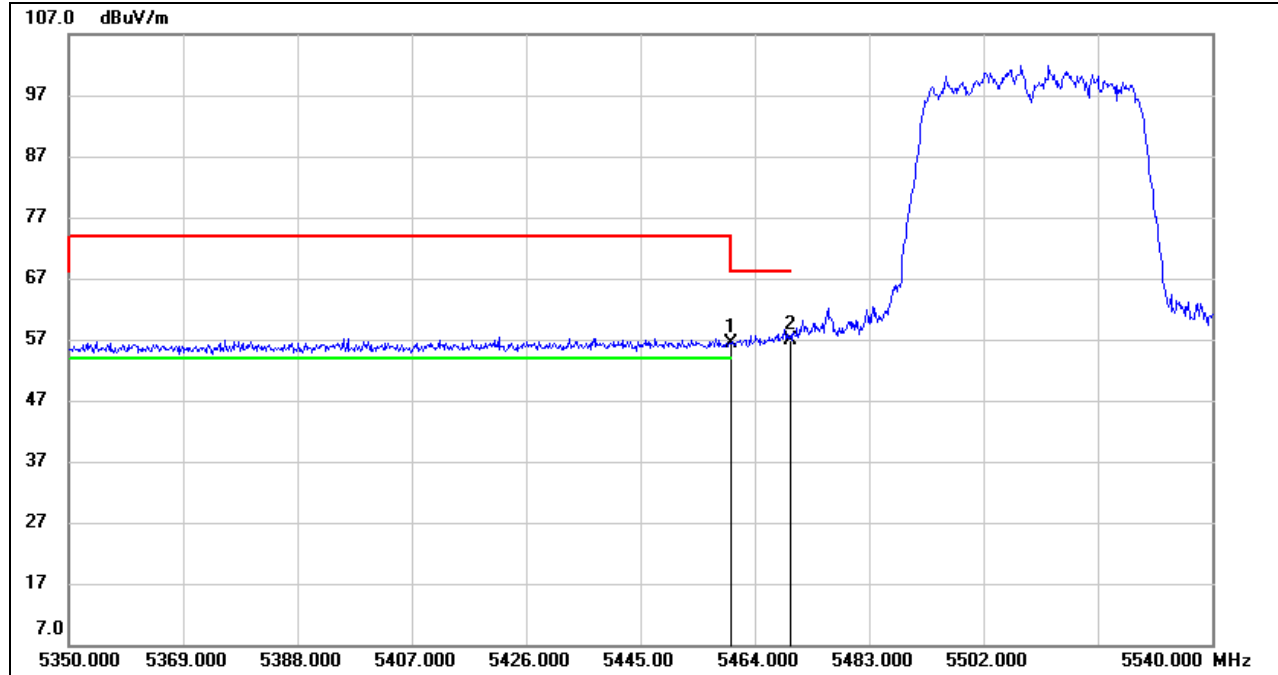
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	5.84	40.49	46.33	54.00	-7.67	AVG
2	5354.520	4.72	40.50	45.22	54.00	-8.78	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

UNII-2C BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

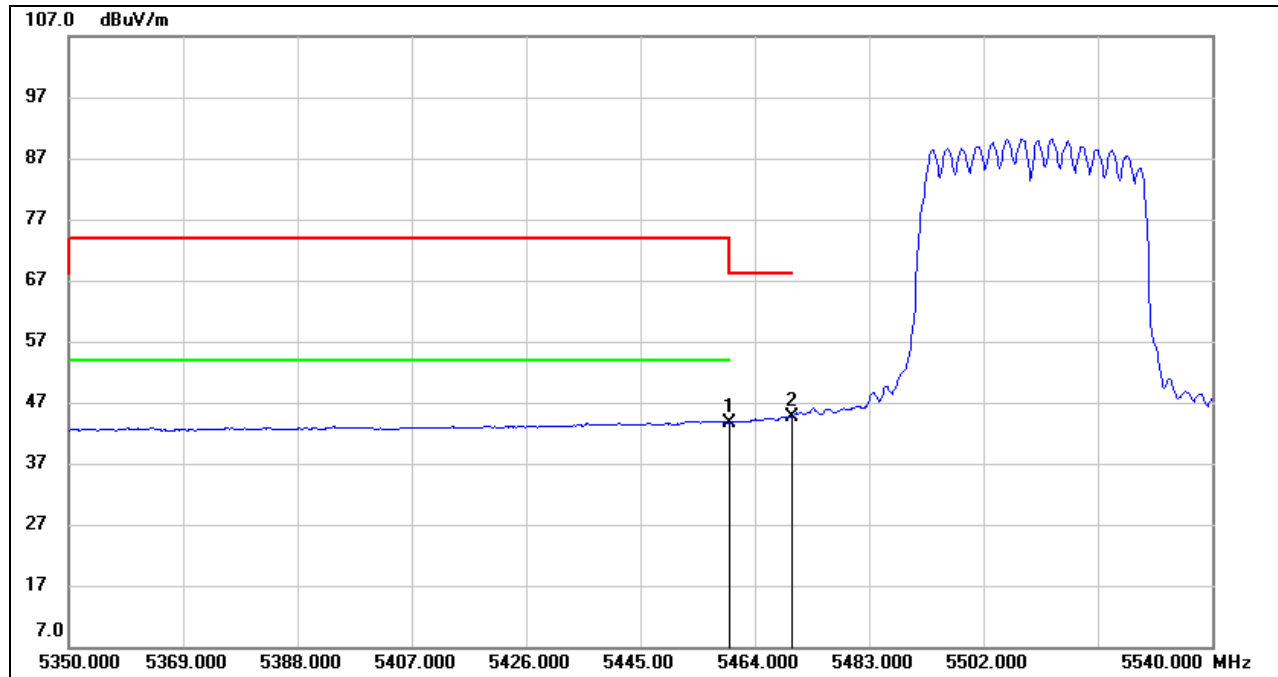


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	15.69	40.62	43.74	74.00	-30.26	peak
2	5470.000	16.17	40.63	44.65	68.20	-23.55	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



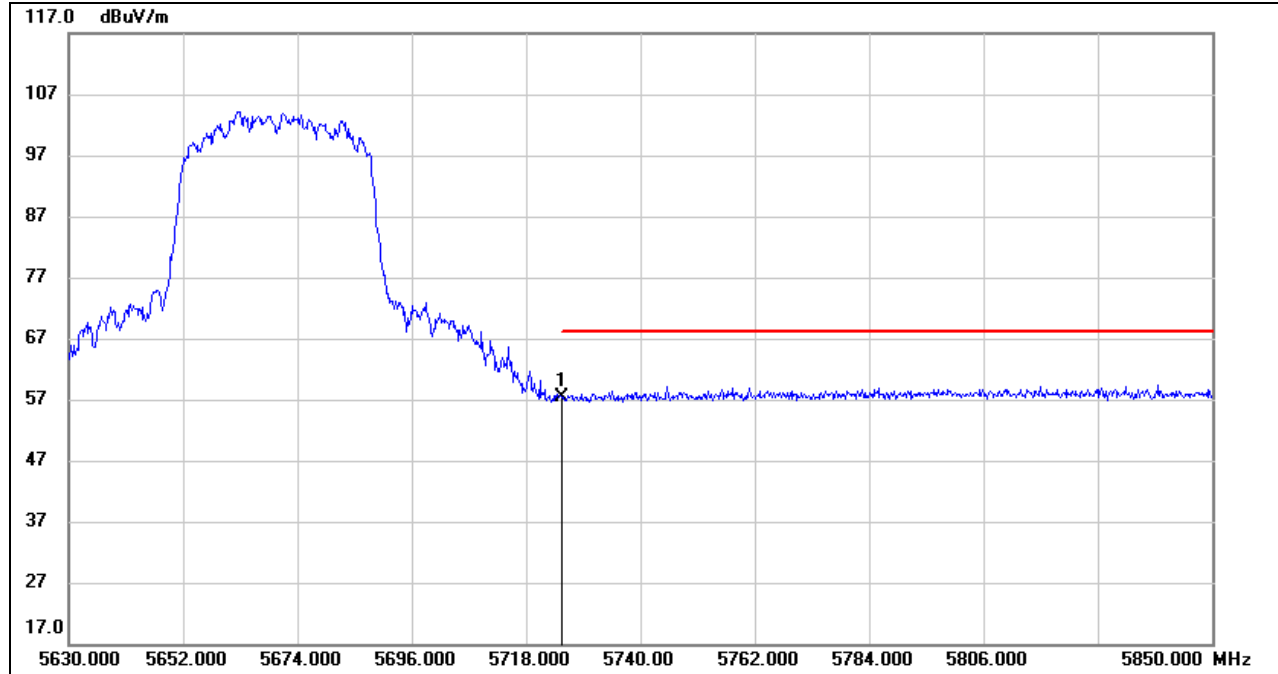
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	3.12	40.62	43.74	54.00	-10.26	AVG
2	5470.000	4.02	40.63	44.65	/	/	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	16.09	41.27	57.36	68.20	-10.84	peak

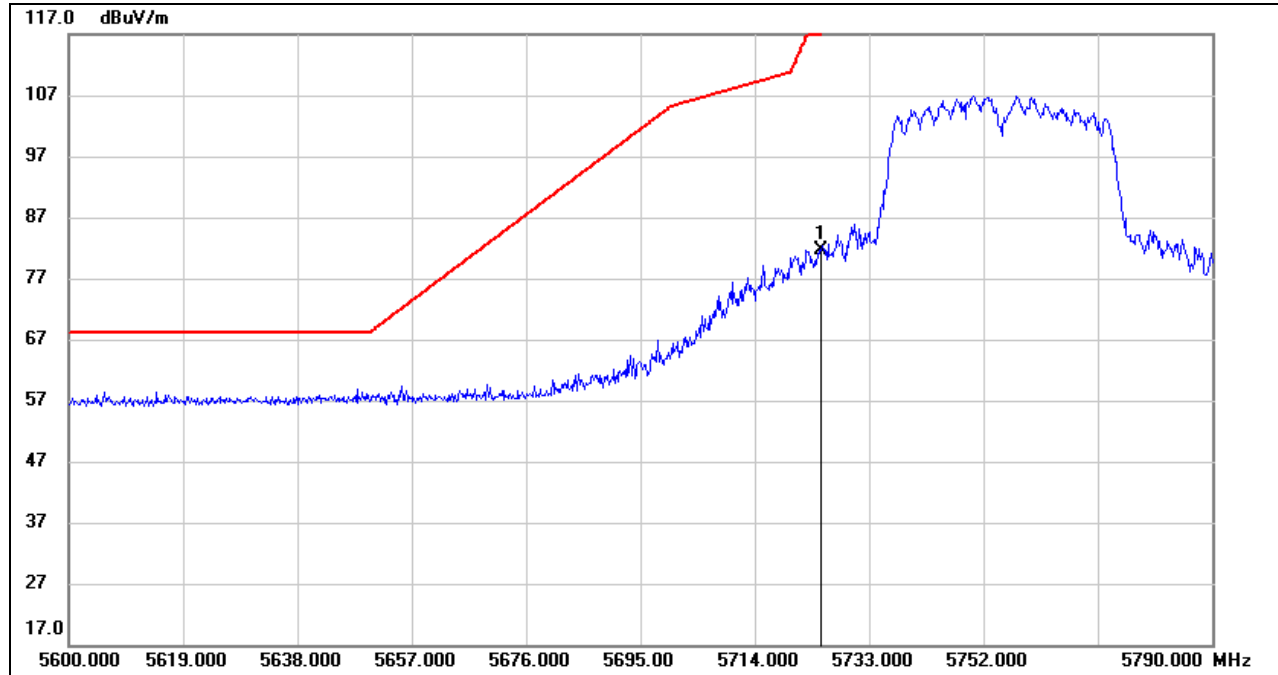
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



UNII-3 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

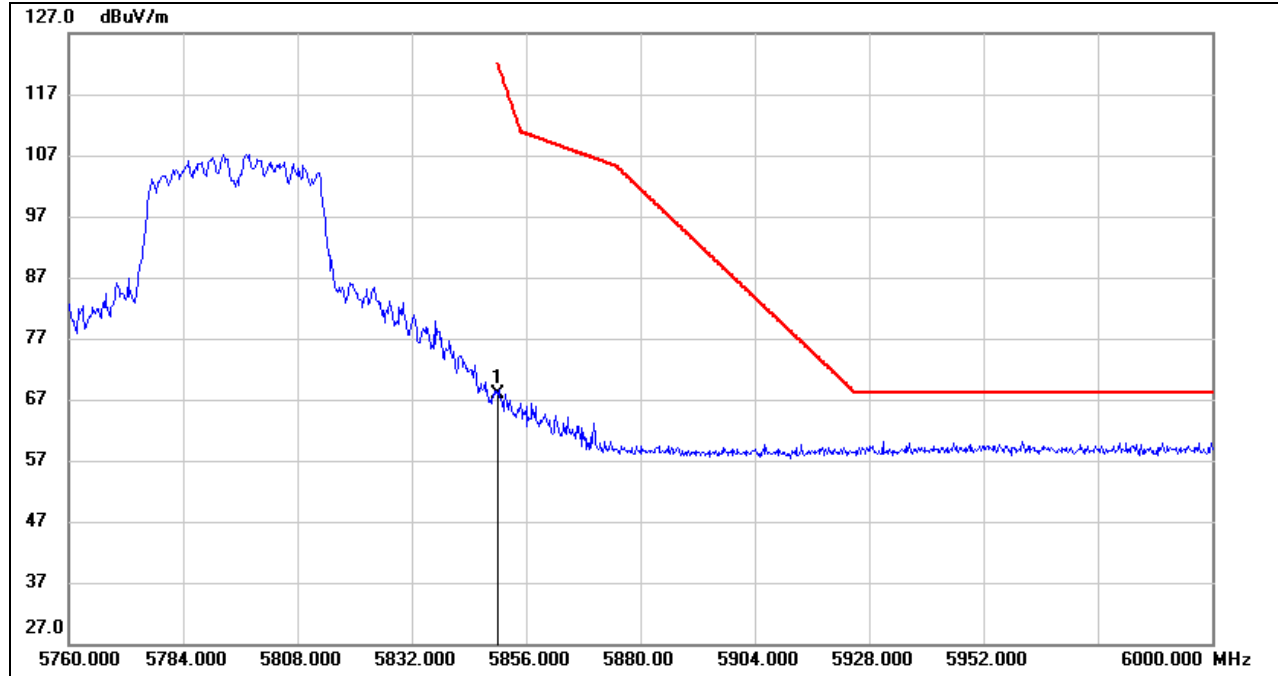


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	40.35	41.27	81.62	122.20	-40.58	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	26.17	41.60	67.77	122.20	-54.43	peak

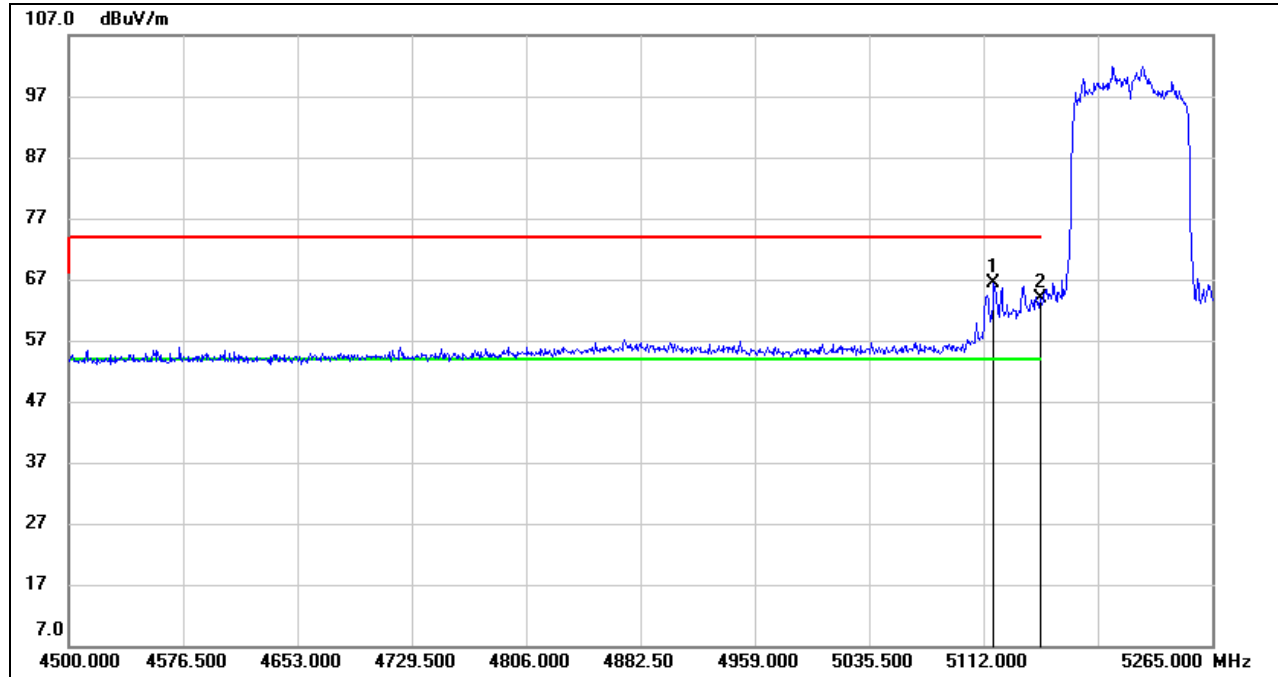
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

8.1.4. 802.11ac VHT80 MIMO MODE

UNII-1 BAND

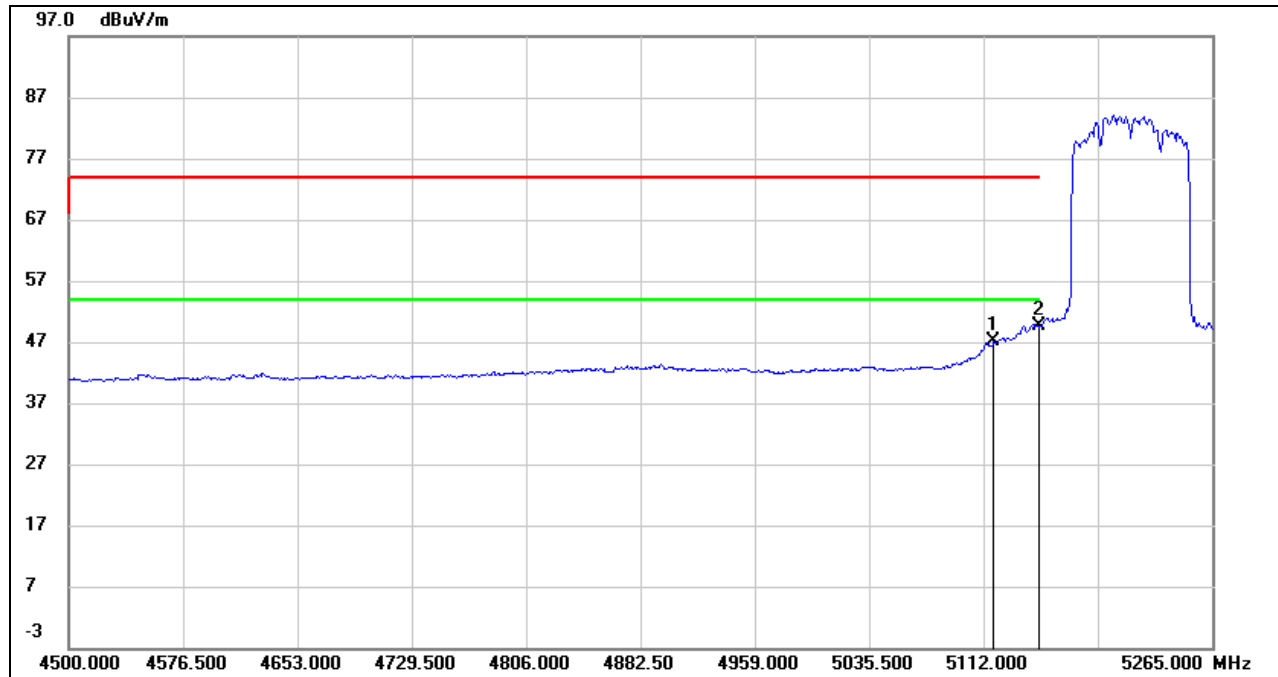
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5118.885	26.03	40.24	66.27	74.00	-7.73	peak
2	5150.000	23.64	40.27	63.91	74.00	-10.09	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5118.885	6.80	40.24	47.04	54.00	-6.96	AVG
2	5150.000	9.30	40.27	49.57	54.00	-4.43	AVG

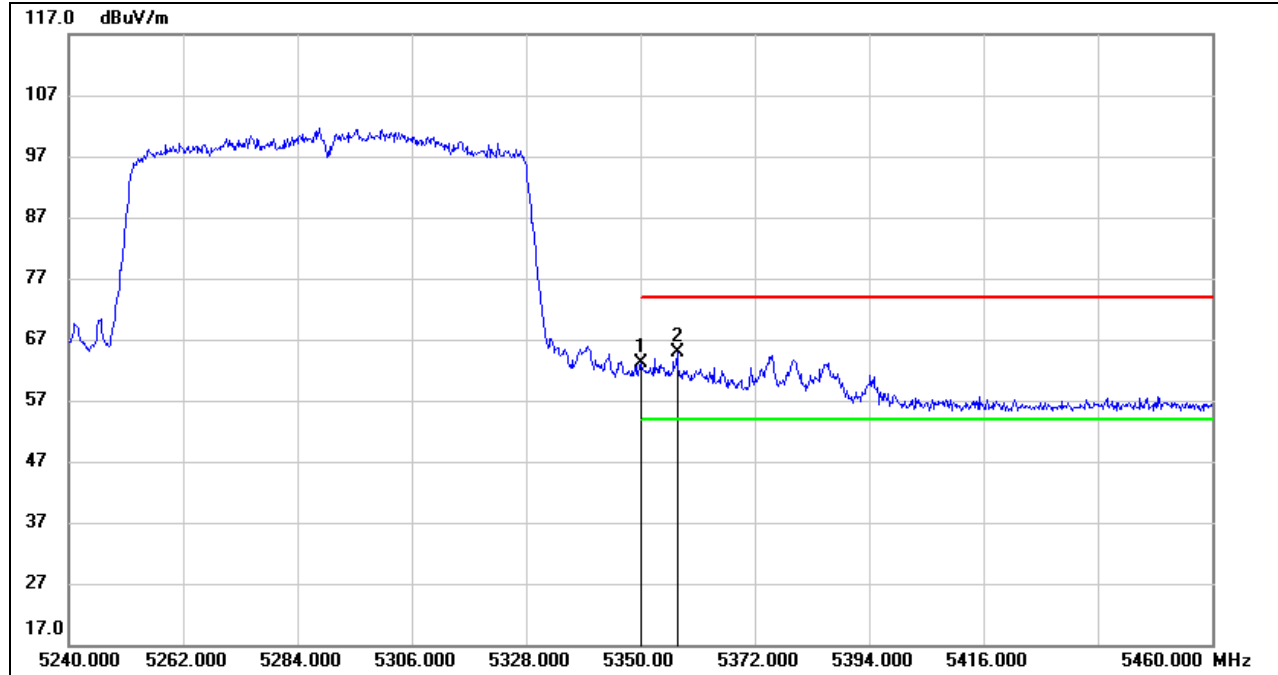
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

UNII-2A BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

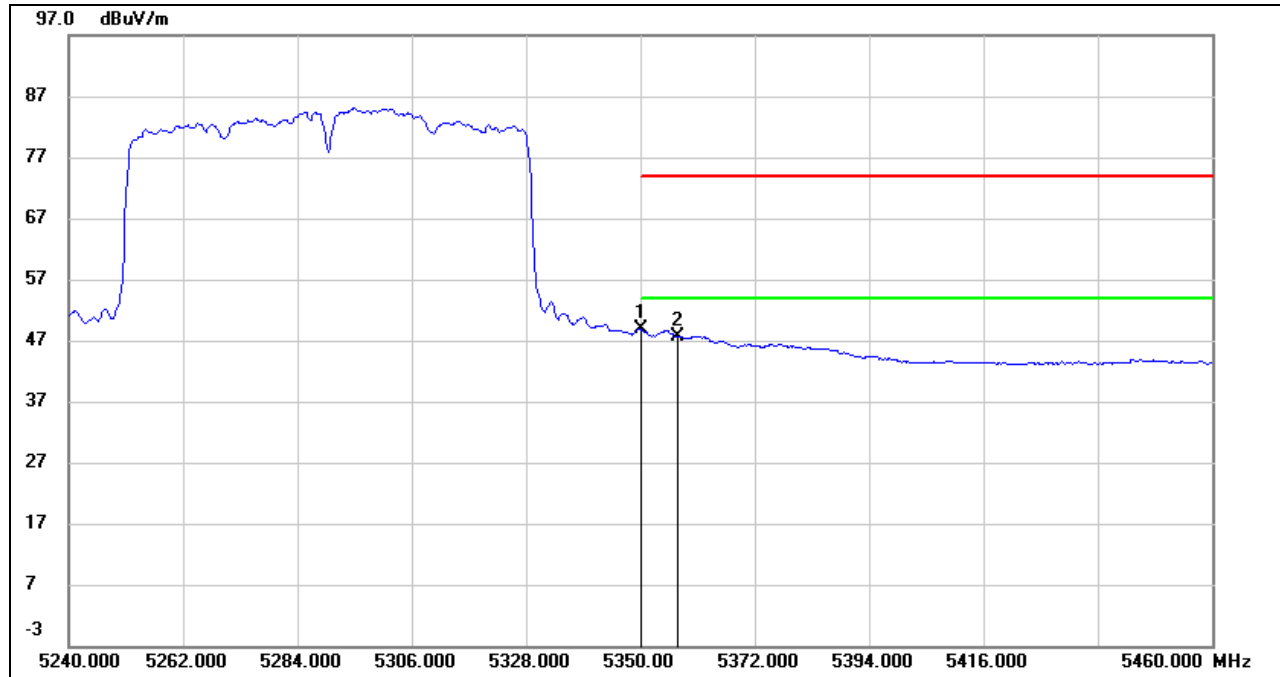
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	22.76	40.49	63.25	74.00	-10.75	peak
2	5357.040	24.44	40.50	64.94	74.00	-9.06	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	8.33	40.49	48.82	54.00	-5.18	AVG
2	5357.040	7.18	40.50	47.68	54.00	-6.32	AVG

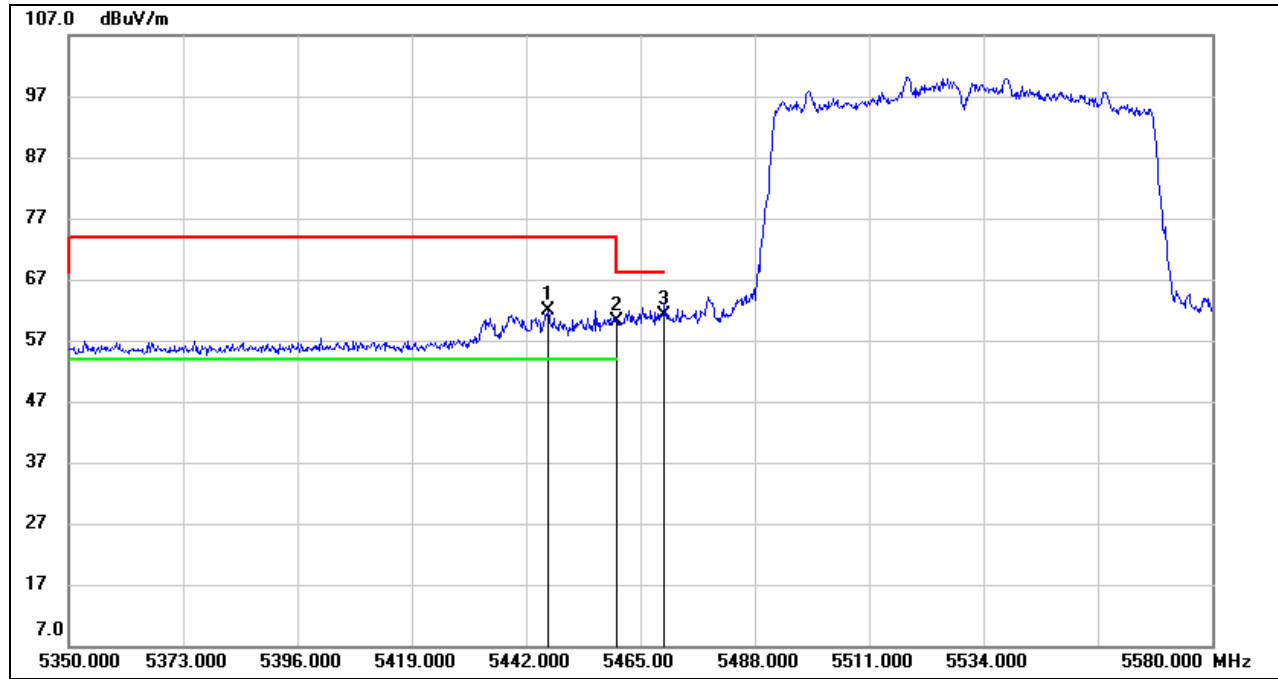
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

UNII-2C BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

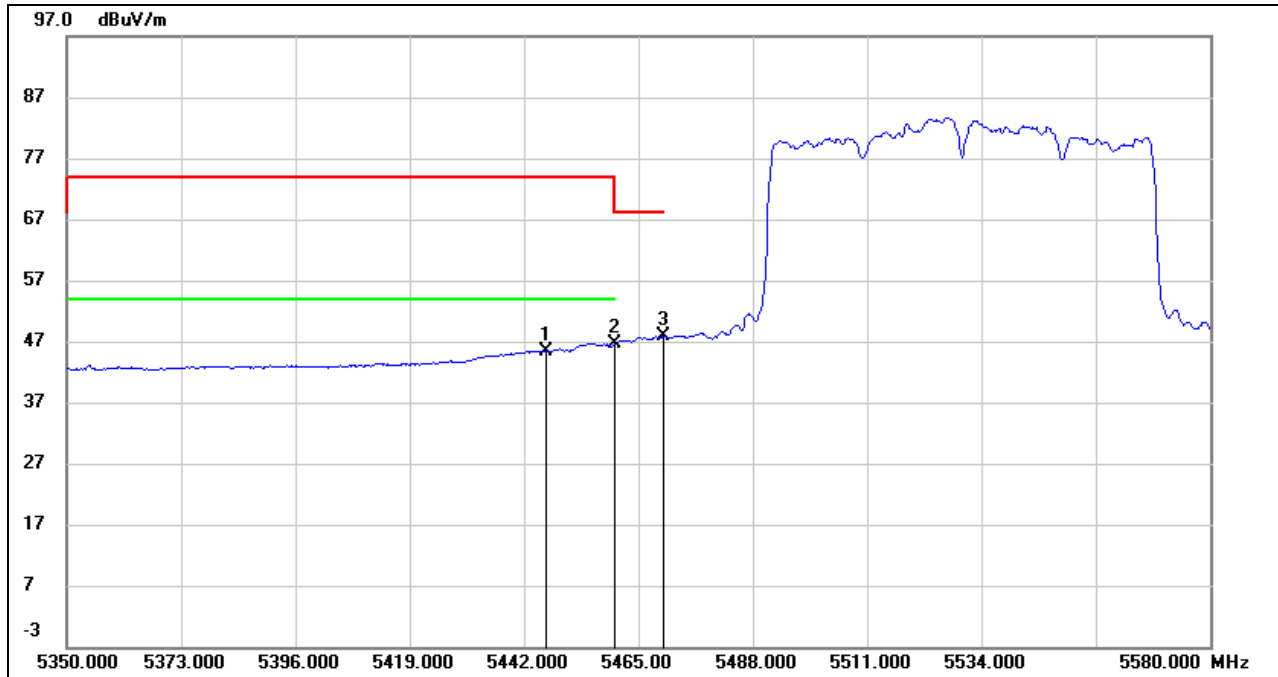
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5446.370	21.26	40.60	61.86	74.00	-12.14	peak
2	5460.000	19.46	40.62	60.08	74.00	-13.92	peak
3	5470.000	20.42	40.63	61.05	68.20	-7.15	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG

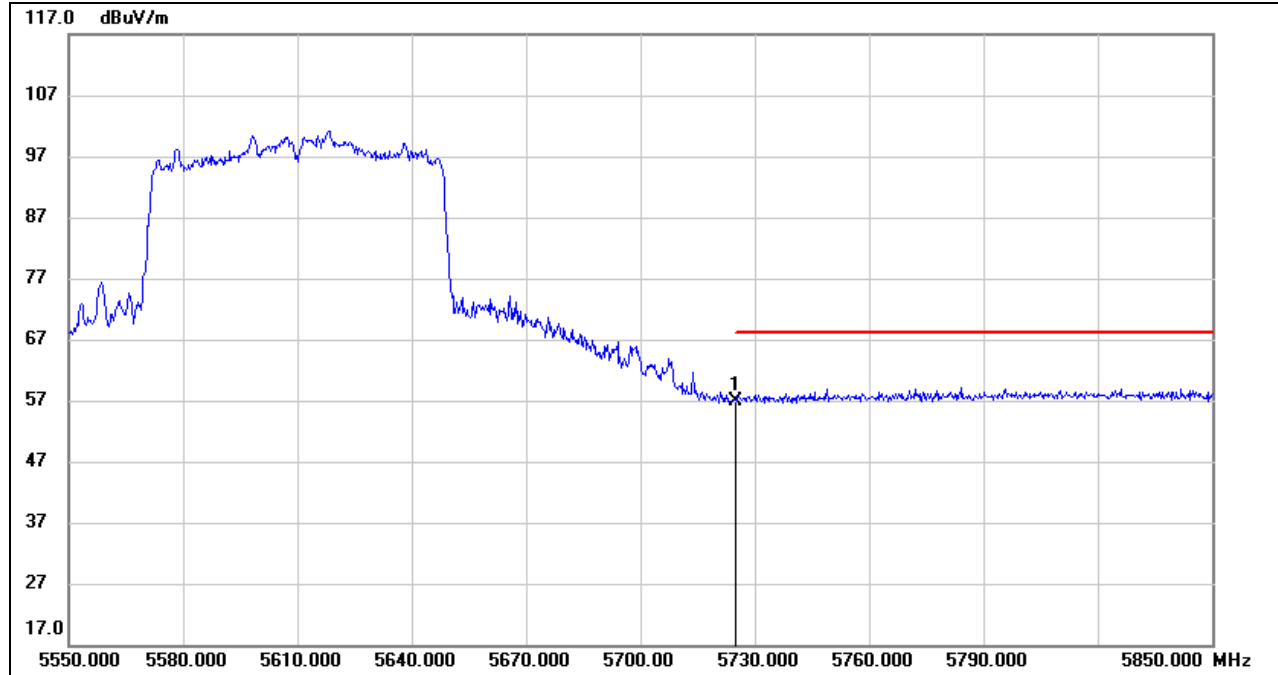


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5446.370	4.79	40.60	45.39	54.00	-8.61	AVG
2	5460.000	5.93	40.62	46.55	54.00	-7.45	AVG
3	5470.000	7.30	40.63	47.93	/	/	AVG

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
 4. For the transmitting duration, please refer to clause 7.1.
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



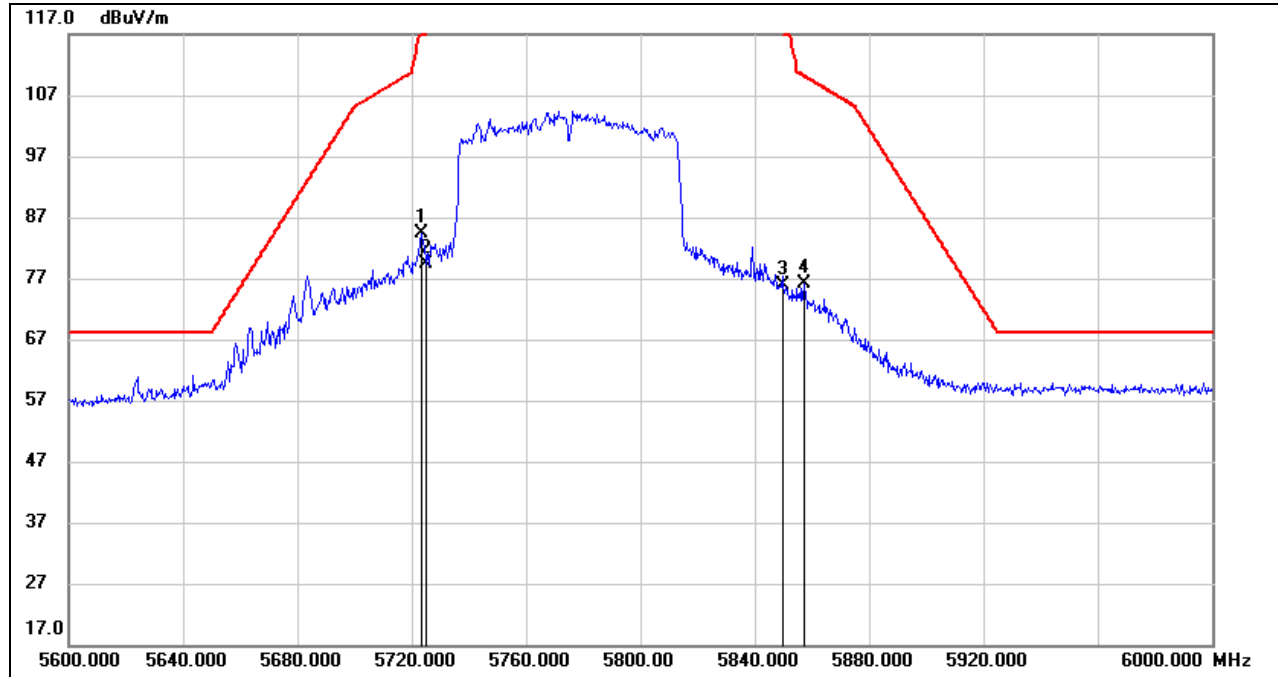
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	15.61	41.27	56.88	68.20	-11.32	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

UNII-3 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5723.200	43.16	41.25	84.41	118.10	-33.69	peak
2	5725.000	38.04	41.27	79.31	122.20	-42.89	peak
3	5850.000	34.40	41.60	76.00	122.20	-46.20	peak
4	5857.200	34.54	41.62	76.16	110.18	-34.02	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

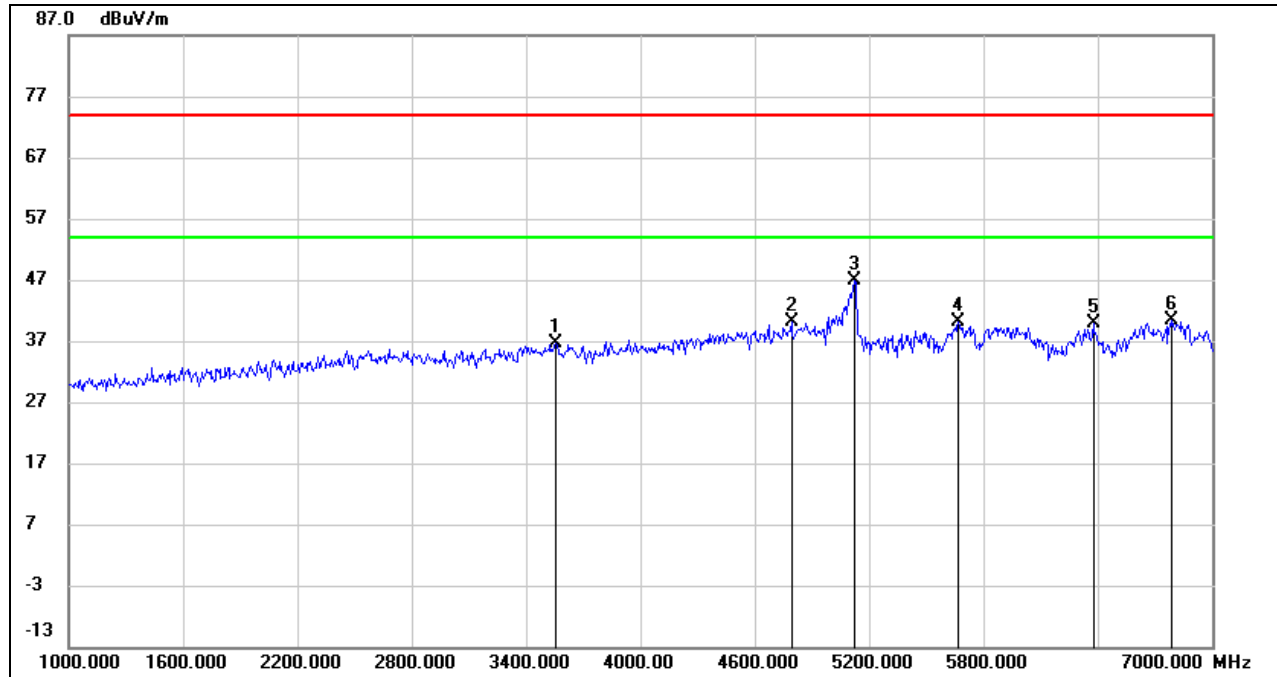
8.2. SPURIOUS EMISSIONS (1 GHz ~ 7 GHz)

8.2.1. 802.11a 20 SISO MODE

UNII-1 BAND

ANTENNA 2 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3556.000	42.23	-5.70	36.53	74.00	-37.47	peak
2	4792.000	41.03	-0.98	40.05	74.00	-33.95	peak
3	5122.000	46.92	-0.02	46.90	74.00	-27.10	peak
4	5668.000	39.11	0.91	40.02	74.00	-33.98	peak
5	6376.000	36.55	3.26	39.81	74.00	-34.19	peak
6	6784.000	35.27	5.13	40.40	74.00	-33.60	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

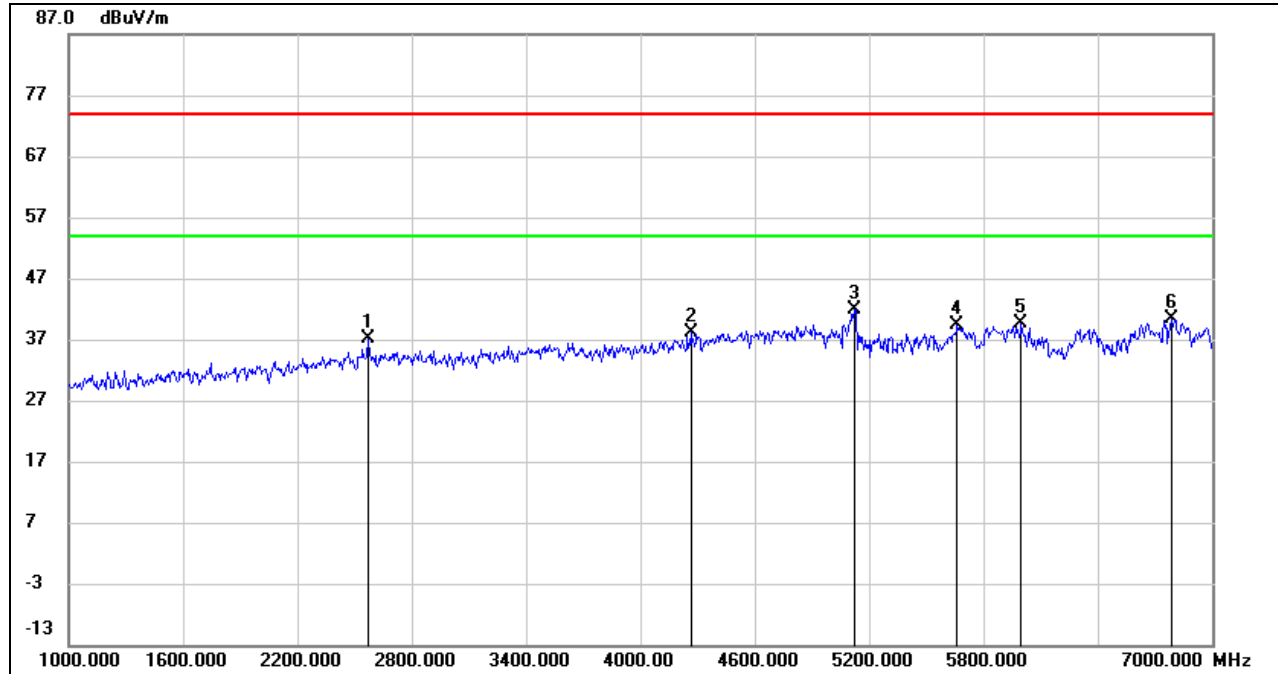
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2572.000	45.31	-8.27	37.04	74.00	-36.96	peak
2	4264.000	41.31	-3.25	38.06	74.00	-35.94	peak
3	5122.000	42.02	-0.02	42.00	74.00	-32.00	peak
4	5662.000	38.40	0.89	39.29	74.00	-34.71	peak
5	5998.000	37.71	1.85	39.56	74.00	-34.44	peak
6	6790.000	35.35	5.15	40.50	74.00	-33.50	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

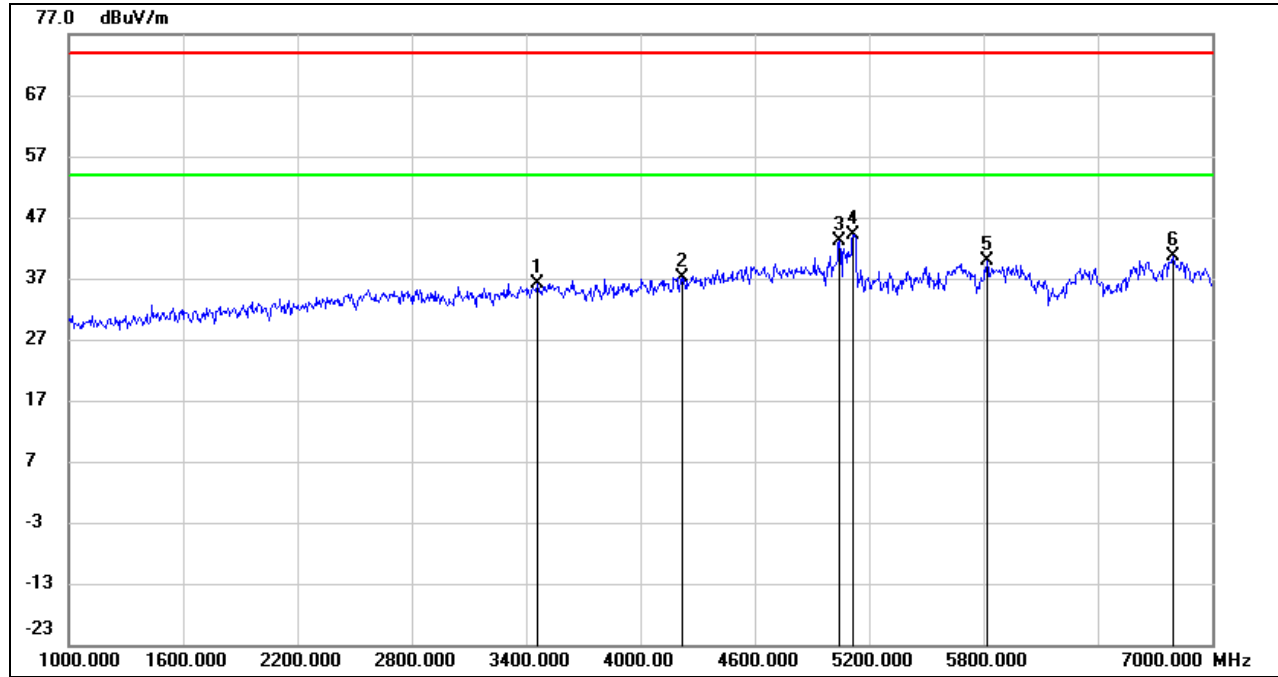
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

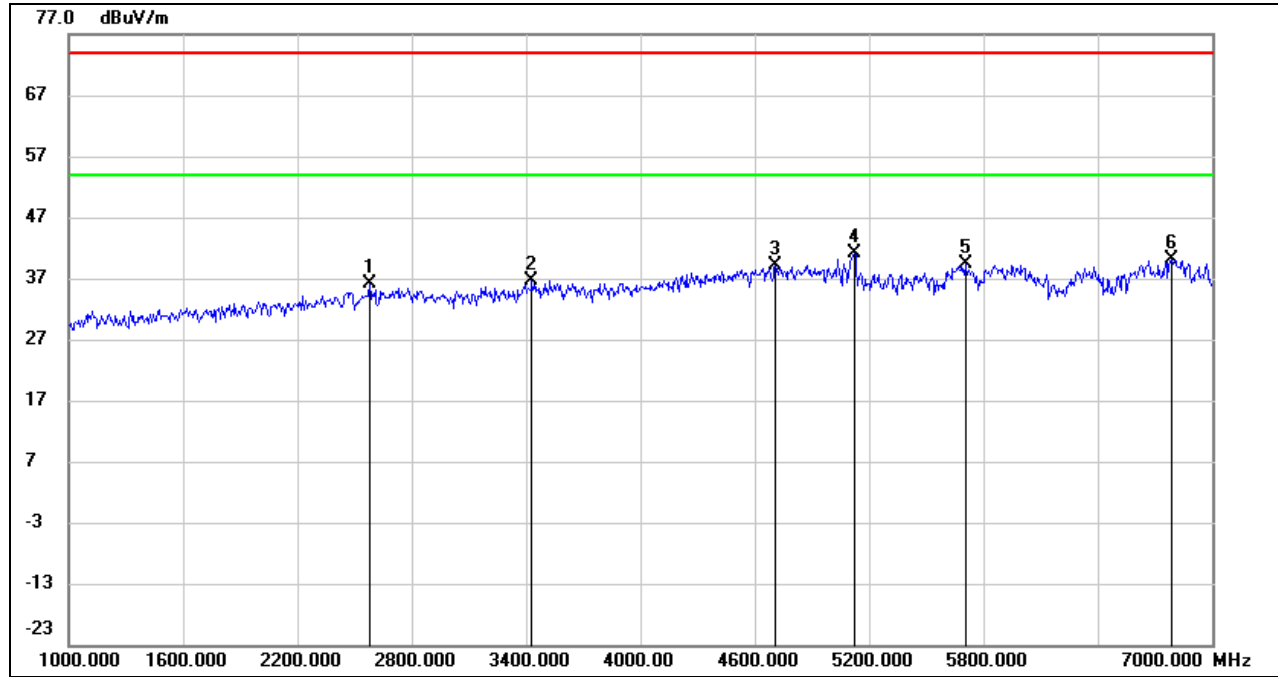
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3460.000	42.17	-5.94	36.23	74.00	-37.77	peak
2	4216.000	40.69	-3.47	37.22	74.00	-36.78	peak
3	5044.000	43.12	-0.10	43.02	74.00	-30.98	peak
4	5116.000	44.18	-0.02	44.16	74.00	-29.84	peak
5	5818.000	38.63	1.33	39.96	74.00	-34.04	peak
6	6796.000	35.52	5.19	40.71	74.00	-33.29	peak

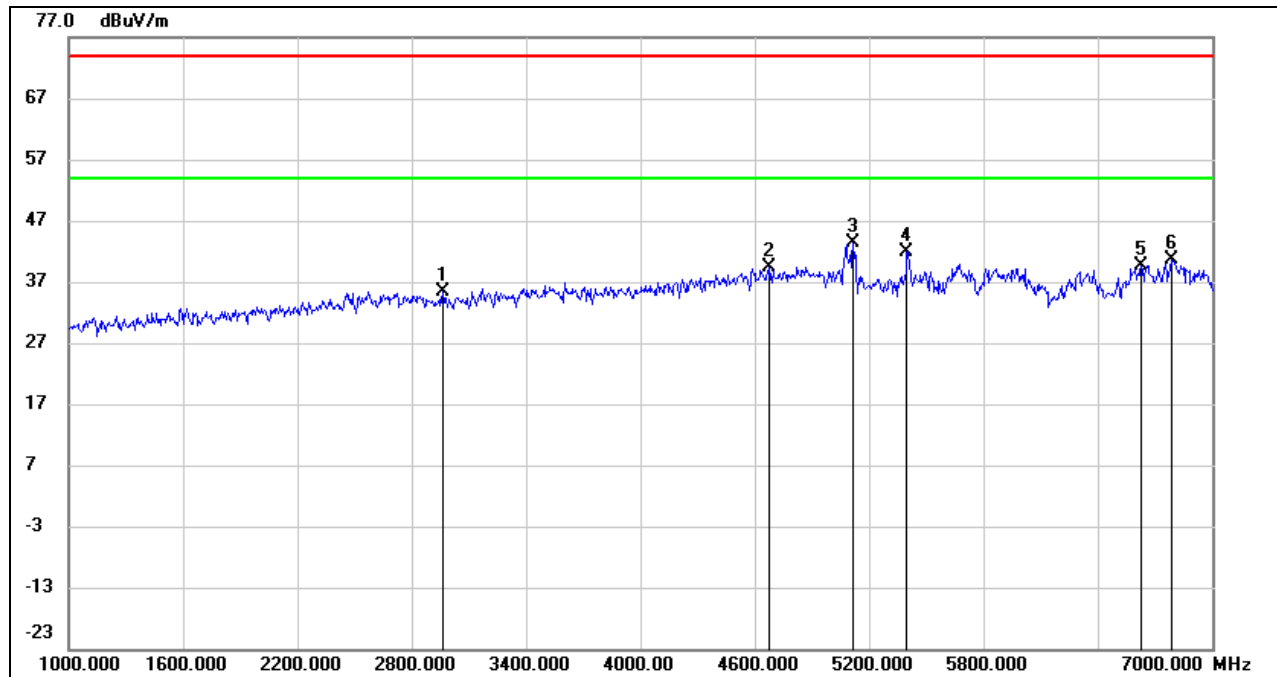
Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2578.000	44.27	-8.26	36.01	74.00	-37.99	peak
2	3430.000	42.70	-6.01	36.69	74.00	-37.31	peak
3	4708.000	40.39	-1.31	39.08	74.00	-34.92	peak
4	5122.000	41.12	-0.02	41.10	74.00	-32.90	peak
5	5704.000	38.29	1.00	39.29	74.00	-34.71	peak
6	6790.000	34.89	5.15	40.04	74.00	-33.96	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2962.000	42.52	-7.10	35.42	74.00	-38.58	peak
2	4678.000	40.75	-1.44	39.31	74.00	-34.69	peak
3	5116.000	43.42	-0.02	43.40	74.00	-30.60	peak
4	5398.000	41.67	0.31	41.98	74.00	-32.02	peak
5	6628.000	35.29	4.36	39.65	74.00	-34.35	peak
6	6784.000	35.48	5.13	40.61	74.00	-33.39	peak

Note: 1. Measurement = Reading Level + Correct Factor.

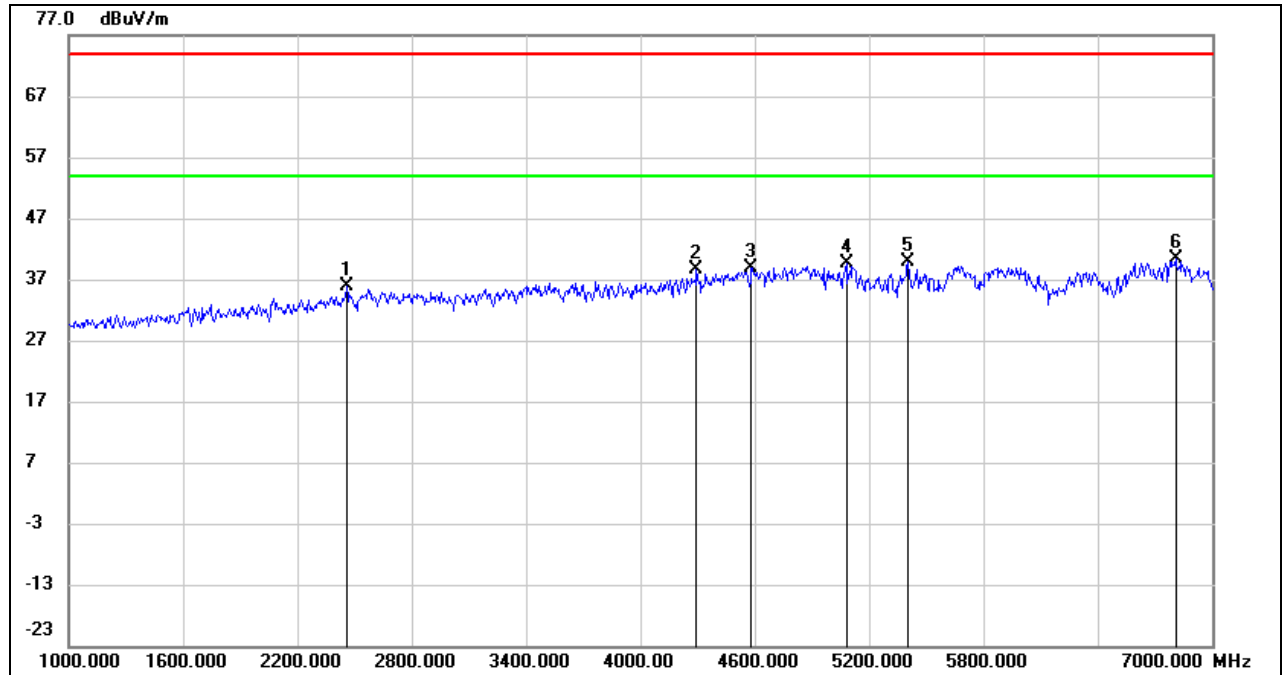
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.000	44.51	-8.71	35.80	74.00	-38.20	peak
2	4294.000	41.83	-3.10	38.73	74.00	-35.27	peak
3	4582.000	40.77	-1.82	38.95	74.00	-35.05	peak
4	5080.000	39.62	-0.06	39.56	74.00	-34.44	peak
5	5404.000	39.49	0.31	39.80	74.00	-34.20	peak
6	6808.000	35.21	5.24	40.45	74.00	-33.55	peak

Note: 1. Measurement = Reading Level + Correct Factor.

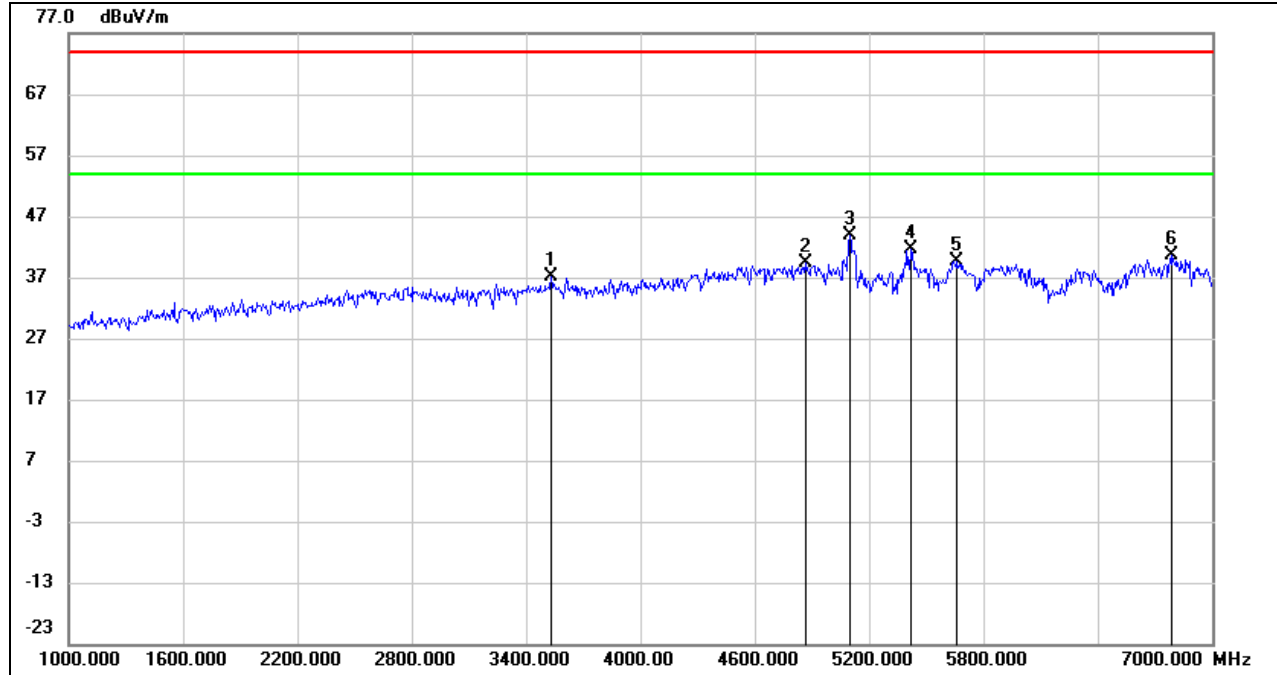
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2A BAND
ANTENNA 1 TEST RESULTS (WORST CASE)
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3532.000	42.90	-5.77	37.13	74.00	-36.87	peak
2	4864.000	40.09	-0.70	39.39	74.00	-34.61	peak
3	5098.000	43.99	-0.03	43.96	74.00	-30.04	peak
4	5422.000	41.31	0.32	41.63	74.00	-32.37	peak
5	5662.000	38.72	0.89	39.61	74.00	-34.39	peak
6	6784.000	35.45	5.13	40.58	74.00	-33.42	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

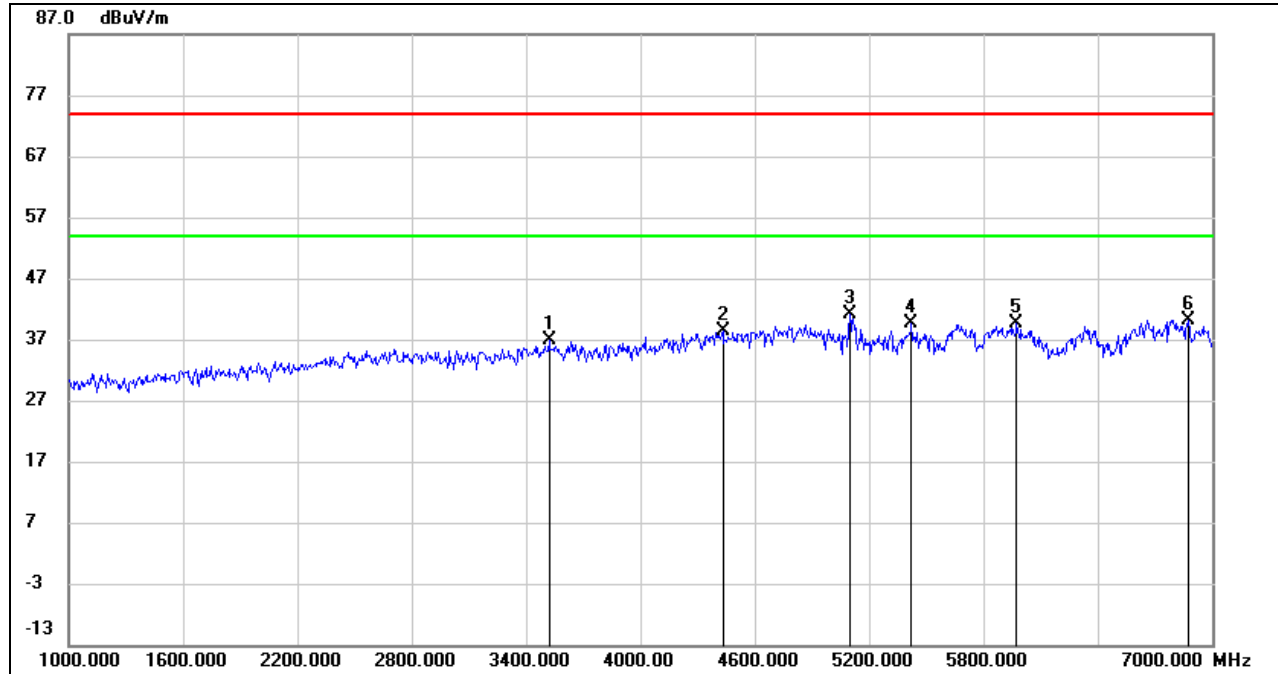
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

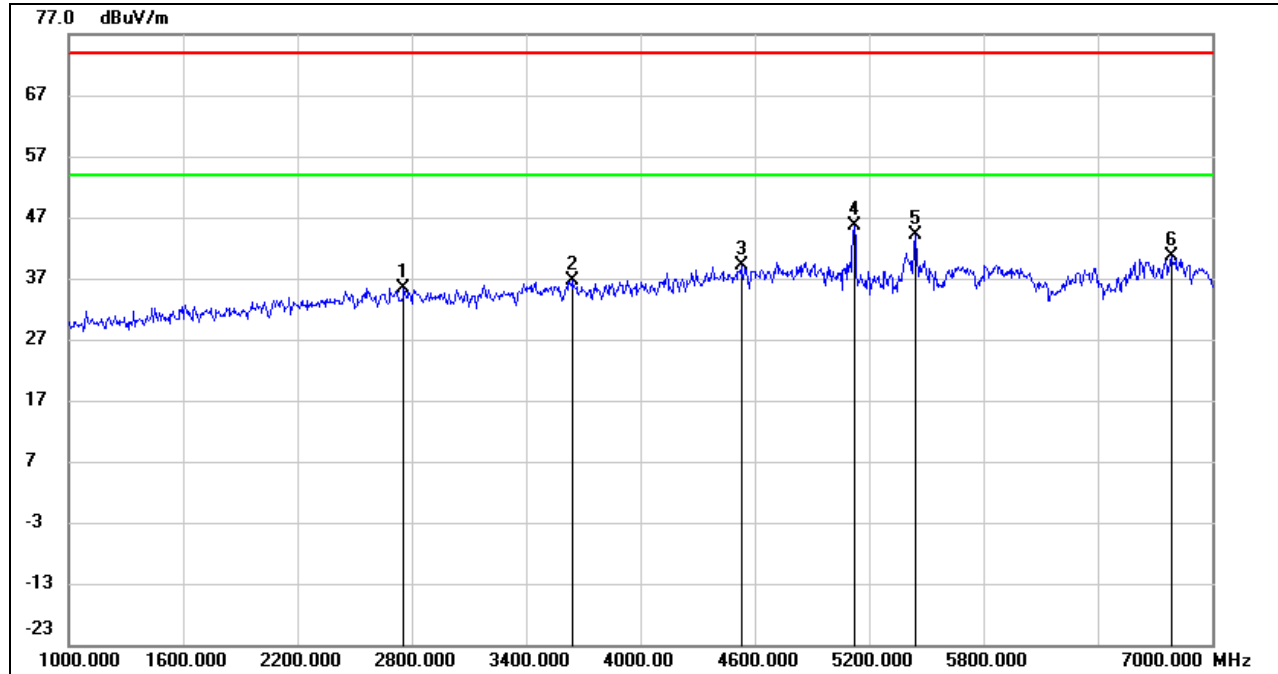
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3520.000	42.60	-5.80	36.80	74.00	-37.20	peak
2	4432.000	40.80	-2.46	38.34	74.00	-35.66	peak
3	5098.000	41.26	-0.03	41.23	74.00	-32.77	peak
4	5422.000	39.32	0.32	39.64	74.00	-34.36	peak
5	5974.000	37.76	1.77	39.53	74.00	-34.47	peak
6	6874.000	34.68	5.57	40.25	74.00	-33.75	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

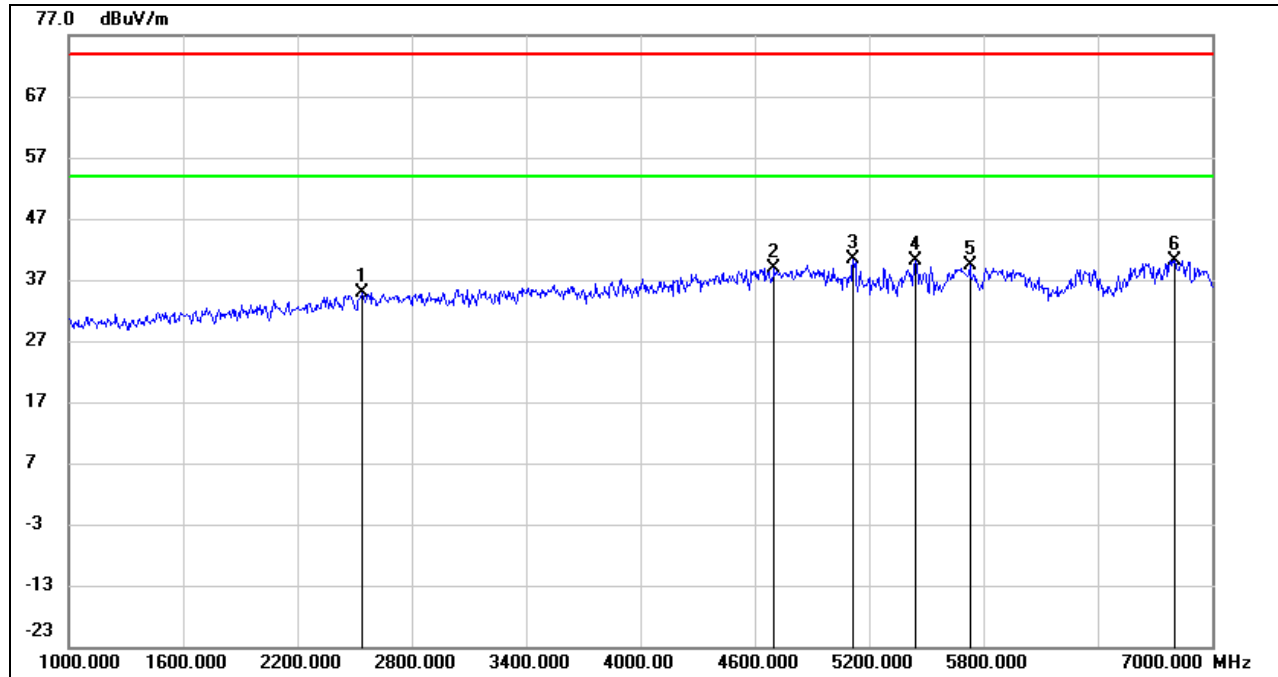


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2758.000	43.12	-7.72	35.40	74.00	-38.60	peak
2	3640.000	42.12	-5.47	36.65	74.00	-37.35	peak
3	4528.000	41.23	-2.03	39.20	74.00	-34.80	peak
4	5122.000	45.73	-0.02	45.71	74.00	-28.29	peak
5	5440.000	43.66	0.35	44.01	74.00	-29.99	peak
6	6784.000	35.59	5.13	40.72	74.00	-33.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



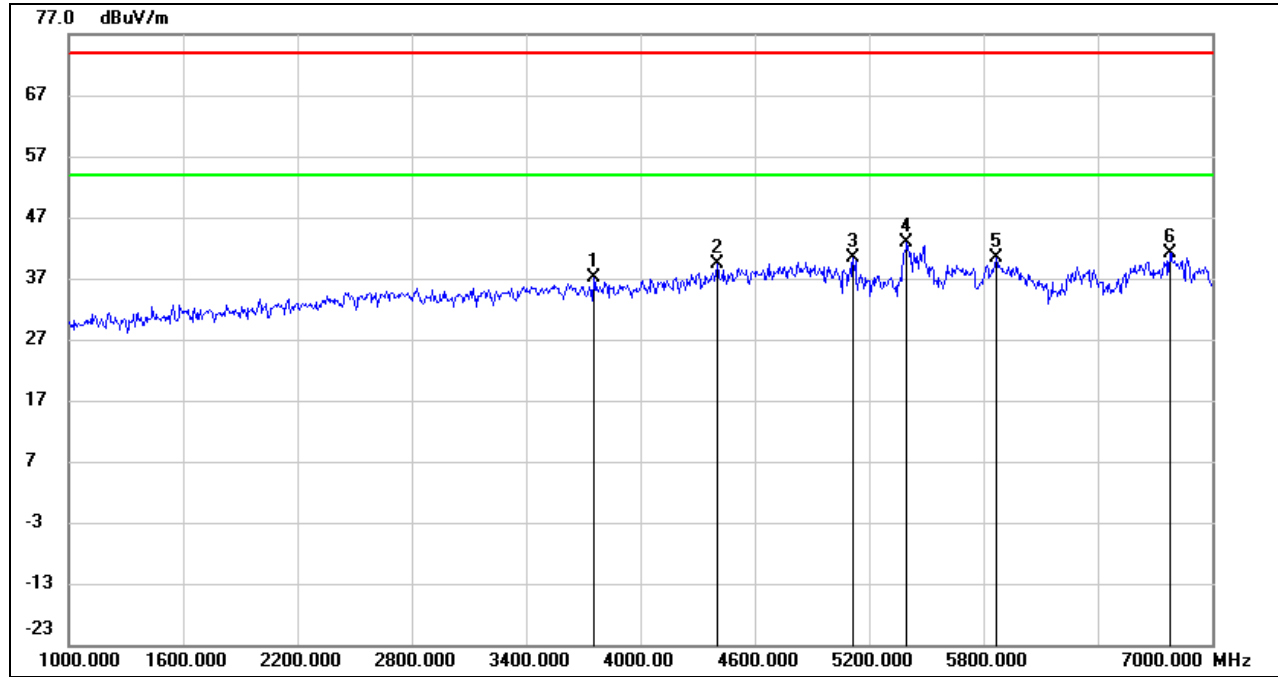
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2536.000	43.30	-8.38	34.92	74.00	-39.08	peak
2	4702.000	40.26	-1.34	38.92	74.00	-35.08	peak
3	5116.000	40.46	-0.02	40.44	74.00	-33.56	peak
4	5440.000	39.71	0.35	40.06	74.00	-33.94	peak
5	5728.000	38.21	1.07	39.28	74.00	-34.72	peak
6	6802.000	35.00	5.21	40.21	74.00	-33.79	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

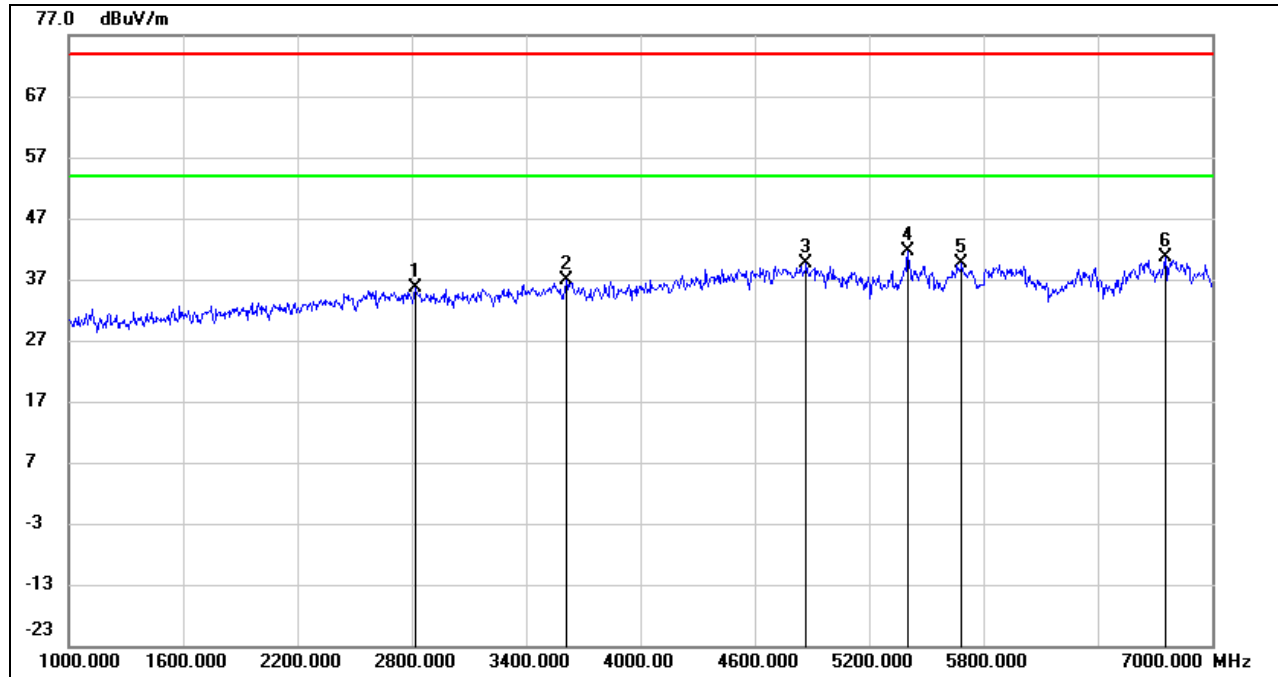


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3754.000	42.35	-5.15	37.20	74.00	-36.80	peak
2	4402.000	41.89	-2.60	39.29	74.00	-34.71	peak
3	5116.000	40.47	-0.02	40.45	74.00	-33.55	peak
4	5398.000	42.60	0.31	42.91	74.00	-31.09	peak
5	5866.000	38.95	1.47	40.42	74.00	-33.58	peak
6	6778.000	35.99	5.10	41.09	74.00	-32.91	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2818.000	43.15	-7.53	35.62	74.00	-38.38	peak
2	3610.000	42.51	-5.55	36.96	74.00	-37.04	peak
3	4870.000	40.37	-0.66	39.71	74.00	-34.29	peak
4	5404.000	41.34	0.31	41.65	74.00	-32.35	peak
5	5686.000	38.57	0.96	39.53	74.00	-34.47	peak
6	6754.000	35.53	4.98	40.51	74.00	-33.49	peak

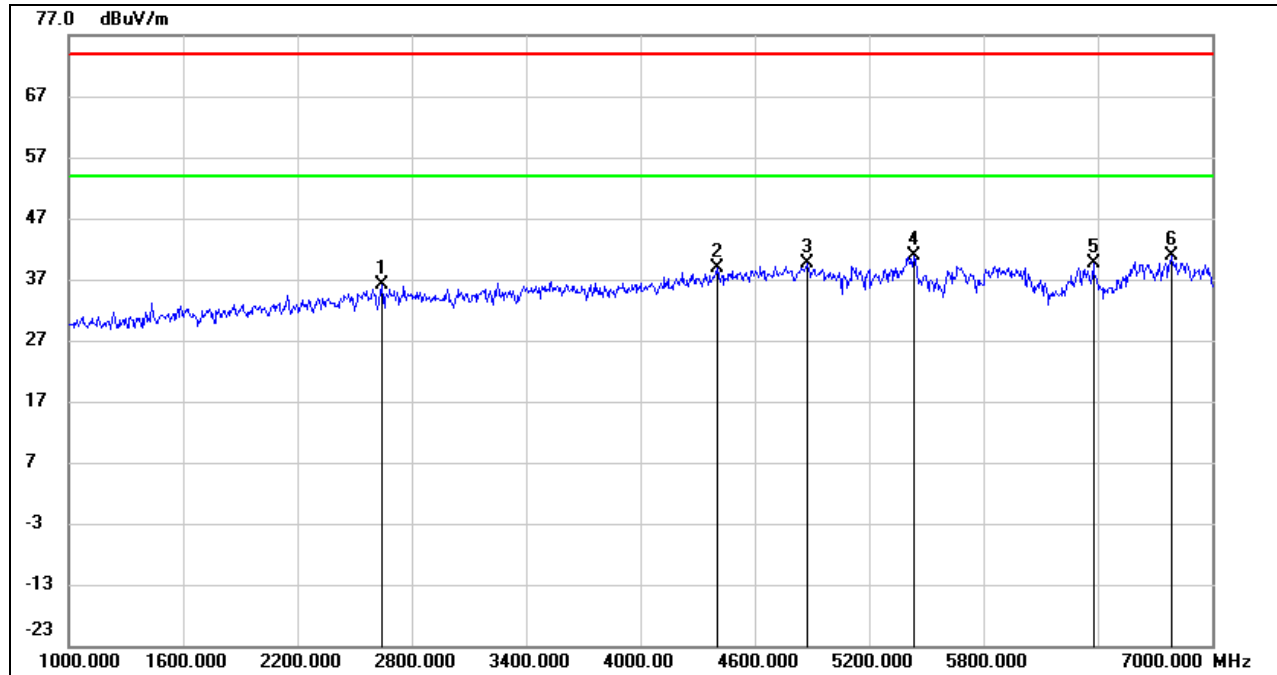
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



UNII-2C BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

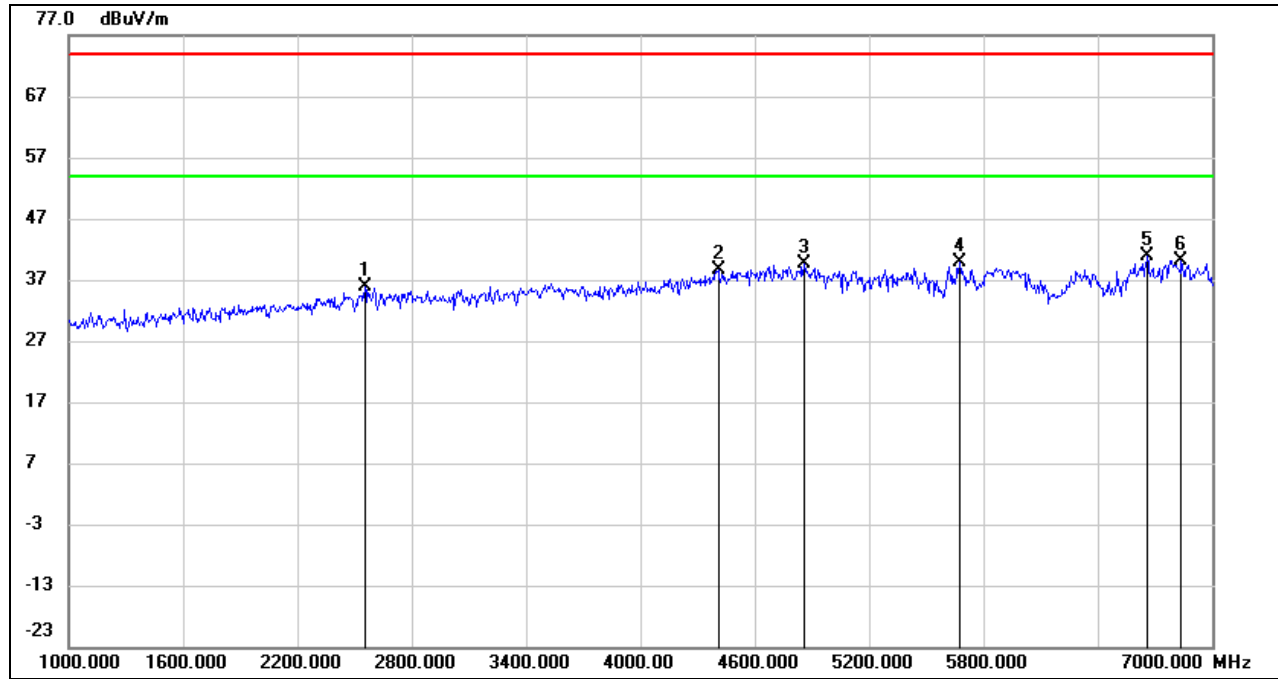
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2644.000	44.31	-8.06	36.25	74.00	-37.75	peak
2	4402.000	41.56	-2.60	38.96	74.00	-35.04	peak
3	4876.000	40.25	-0.64	39.61	74.00	-34.39	peak
4	5434.000	40.52	0.34	40.86	74.00	-33.14	peak
5	6376.000	36.32	3.26	39.58	74.00	-34.42	peak
6	6790.000	35.61	5.15	40.76	74.00	-33.24	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

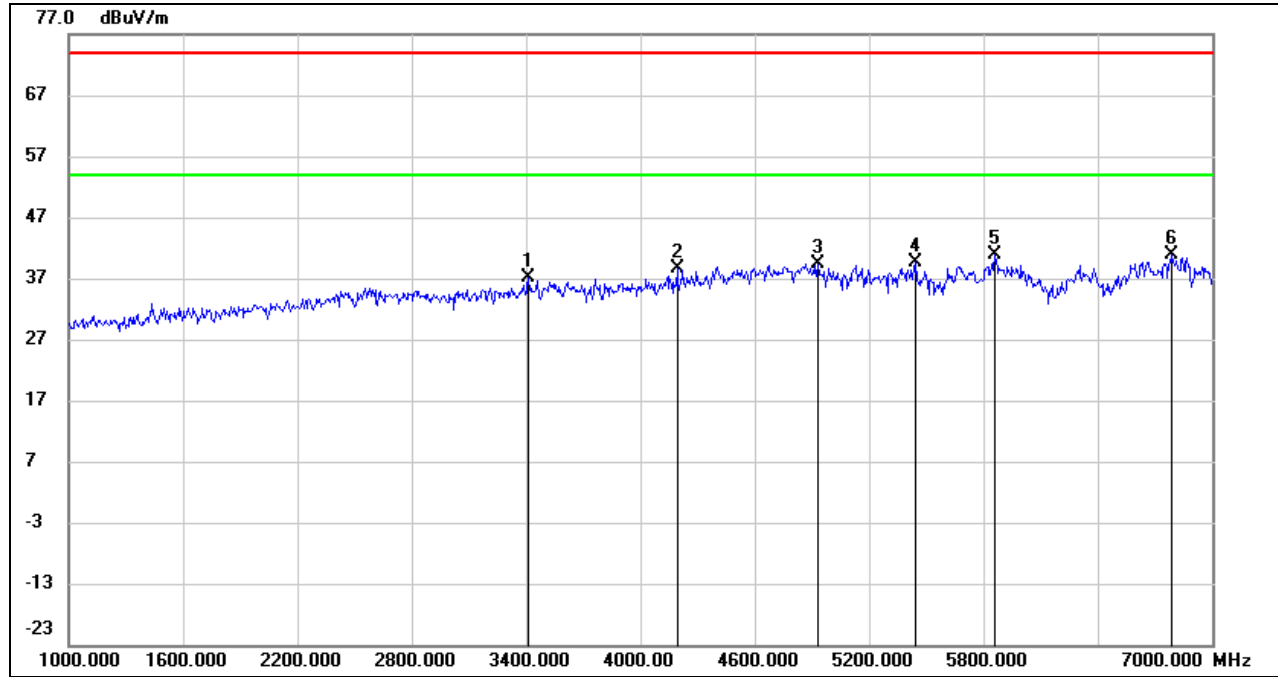


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2554.000	44.19	-8.32	35.87	74.00	-38.13	peak
2	4408.000	41.30	-2.56	38.74	74.00	-35.26	peak
3	4858.000	40.34	-0.72	39.62	74.00	-34.38	peak
4	5674.000	38.87	0.92	39.79	74.00	-34.21	peak
5	6658.000	36.50	4.49	40.99	74.00	-33.01	peak
6	6838.000	34.85	5.40	40.25	74.00	-33.75	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

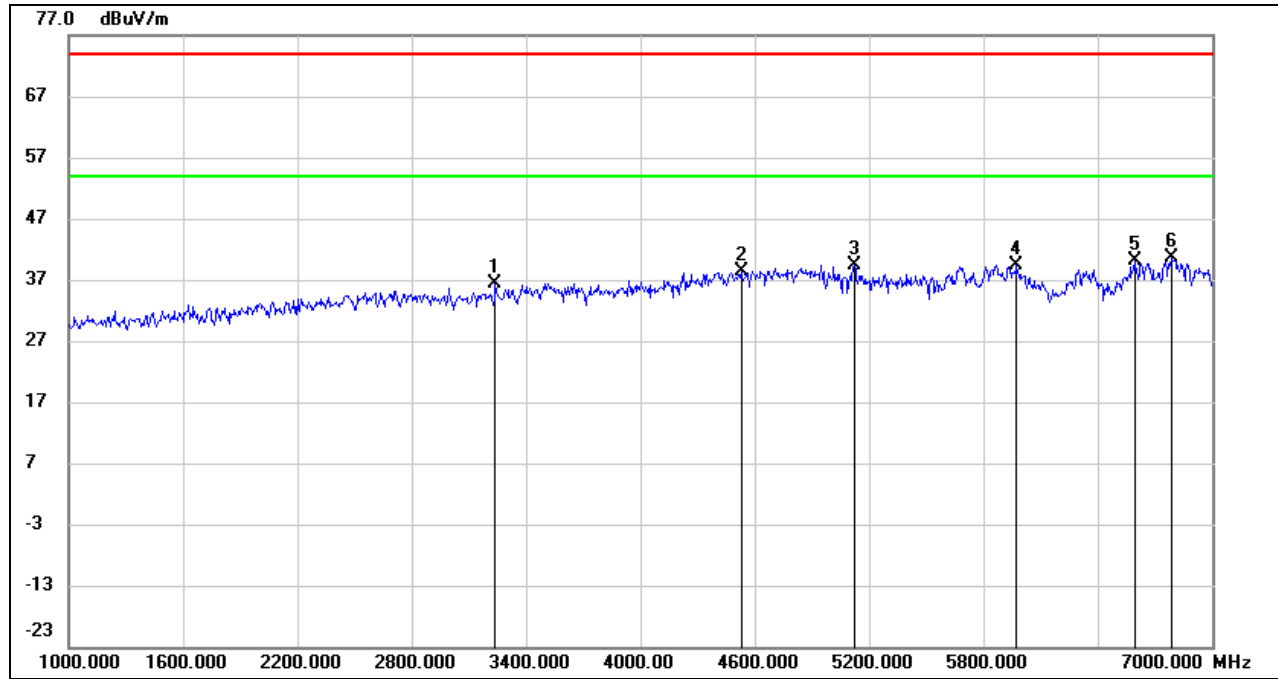


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3412.000	43.06	-6.05	37.01	74.00	-36.99	peak
2	4192.000	42.30	-3.59	38.71	74.00	-35.29	peak
3	4930.000	39.89	-0.43	39.46	74.00	-34.54	peak
4	5446.000	39.30	0.35	39.65	74.00	-34.35	peak
5	5860.000	39.32	1.45	40.77	74.00	-33.23	peak
6	6784.000	35.81	5.13	40.94	74.00	-33.06	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



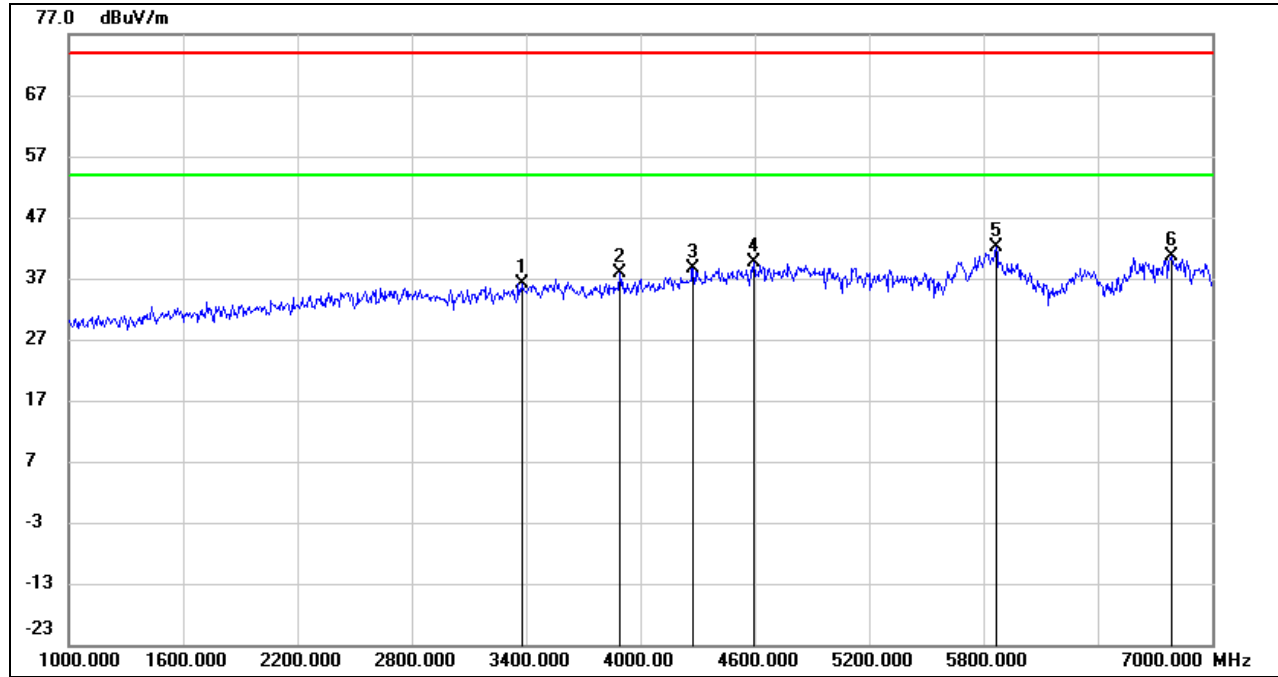
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3238.000	42.75	-6.44	36.31	74.00	-37.69	peak
2	4528.000	40.31	-2.03	38.28	74.00	-35.72	peak
3	5122.000	39.51	-0.02	39.49	74.00	-34.51	peak
4	5974.000	37.73	1.77	39.50	74.00	-34.50	peak
5	6592.000	35.90	4.19	40.09	74.00	-33.91	peak
6	6784.000	35.54	5.13	40.67	74.00	-33.33	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

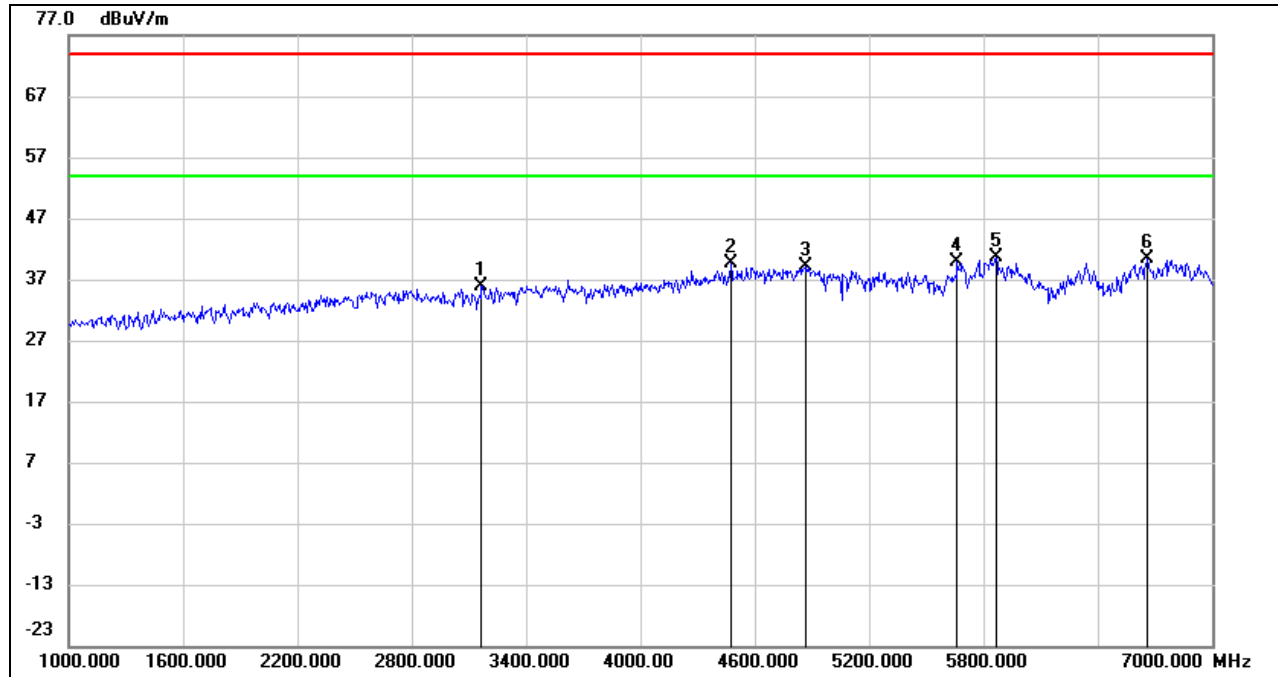


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3376.000	42.36	-6.13	36.23	74.00	-37.77	peak
2	3892.000	42.61	-4.78	37.83	74.00	-36.17	peak
3	4276.000	41.86	-3.19	38.67	74.00	-35.33	peak
4	4594.000	41.32	-1.76	39.56	74.00	-34.44	peak
5	5866.000	40.74	1.47	42.21	74.00	-31.79	peak
6	6790.000	35.59	5.15	40.74	74.00	-33.26	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3166.000	42.60	-6.60	36.00	74.00	-38.00	peak
2	4474.000	41.89	-2.26	39.63	74.00	-34.37	peak
3	4864.000	39.74	-0.70	39.04	74.00	-34.96	peak
4	5662.000	39.00	0.89	39.89	74.00	-34.11	peak
5	5866.000	39.16	1.47	40.63	74.00	-33.37	peak
6	6658.000	35.96	4.49	40.45	74.00	-33.55	peak

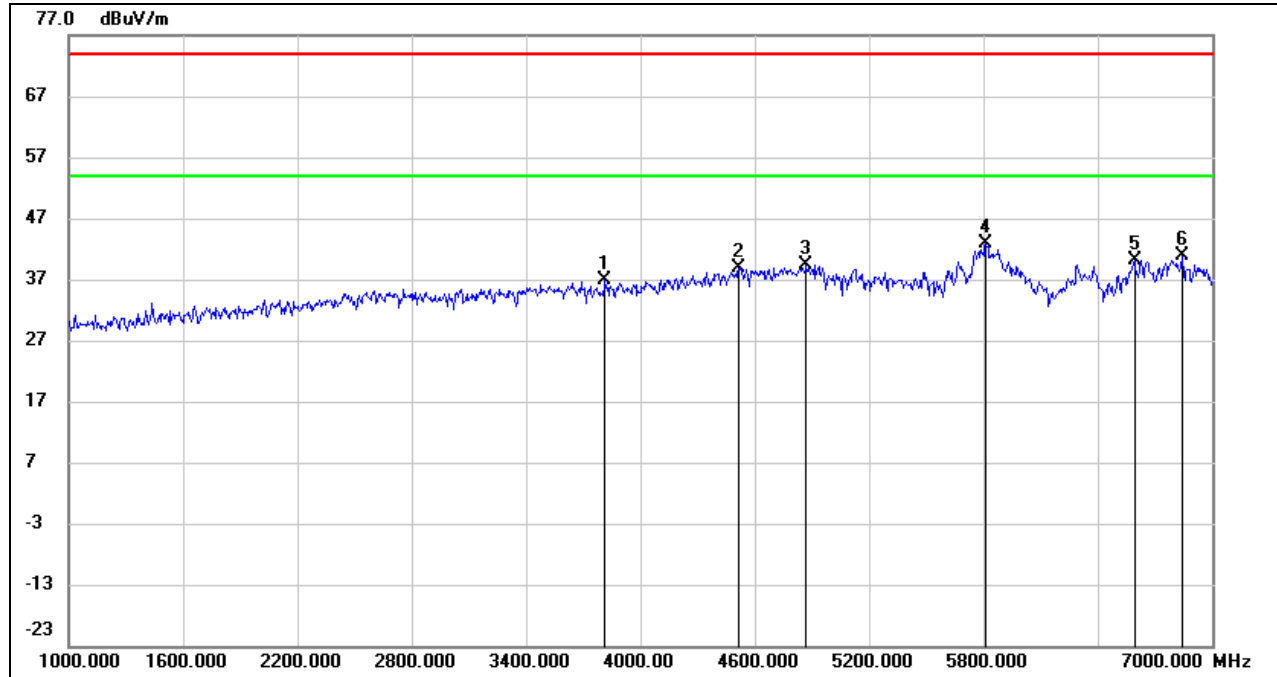
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



STRADDLE CHANNEL 144

ANTENNA 1 TEST RESULTS (WORST CASE)

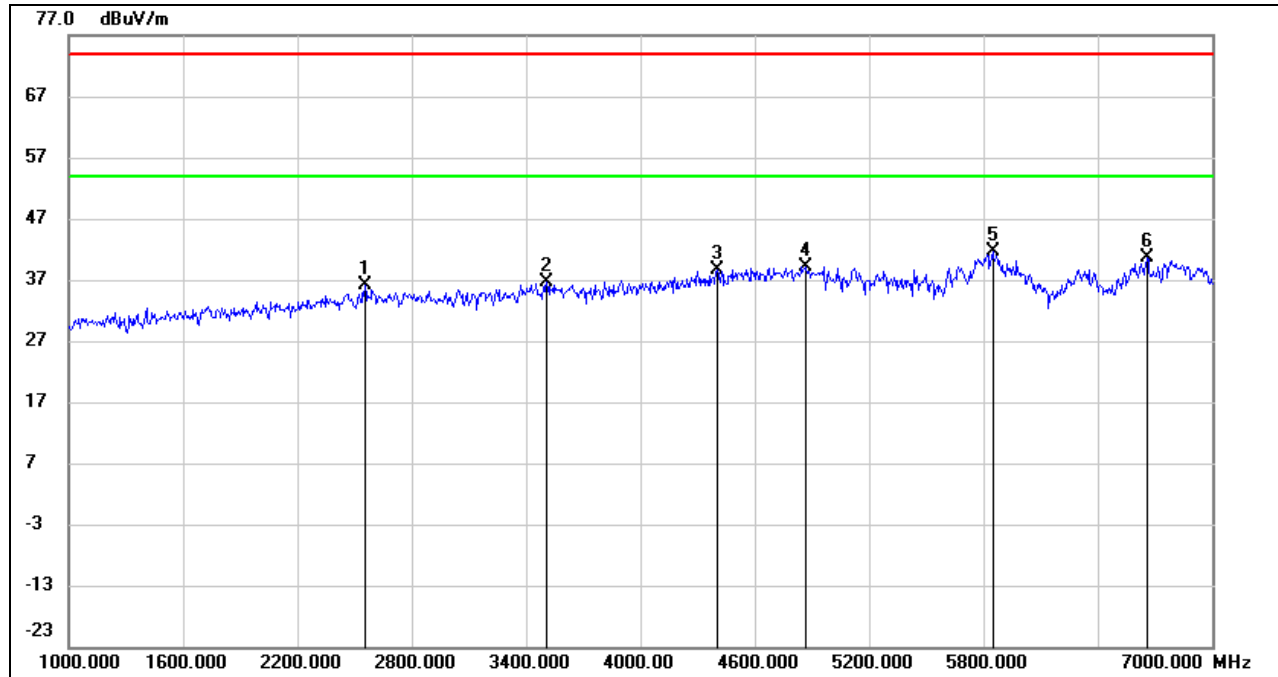
HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3814.000	41.85	-4.99	36.86	74.00	-37.14	peak
2	4516.000	40.98	-2.08	38.90	74.00	-35.10	peak
3	4870.000	40.06	-0.66	39.40	74.00	-34.60	peak
4	5812.000	41.53	1.31	42.84	74.00	-31.16	peak
5	6592.000	35.95	4.19	40.14	74.00	-33.86	peak
6	6844.000	35.39	5.43	40.82	74.00	-33.18	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



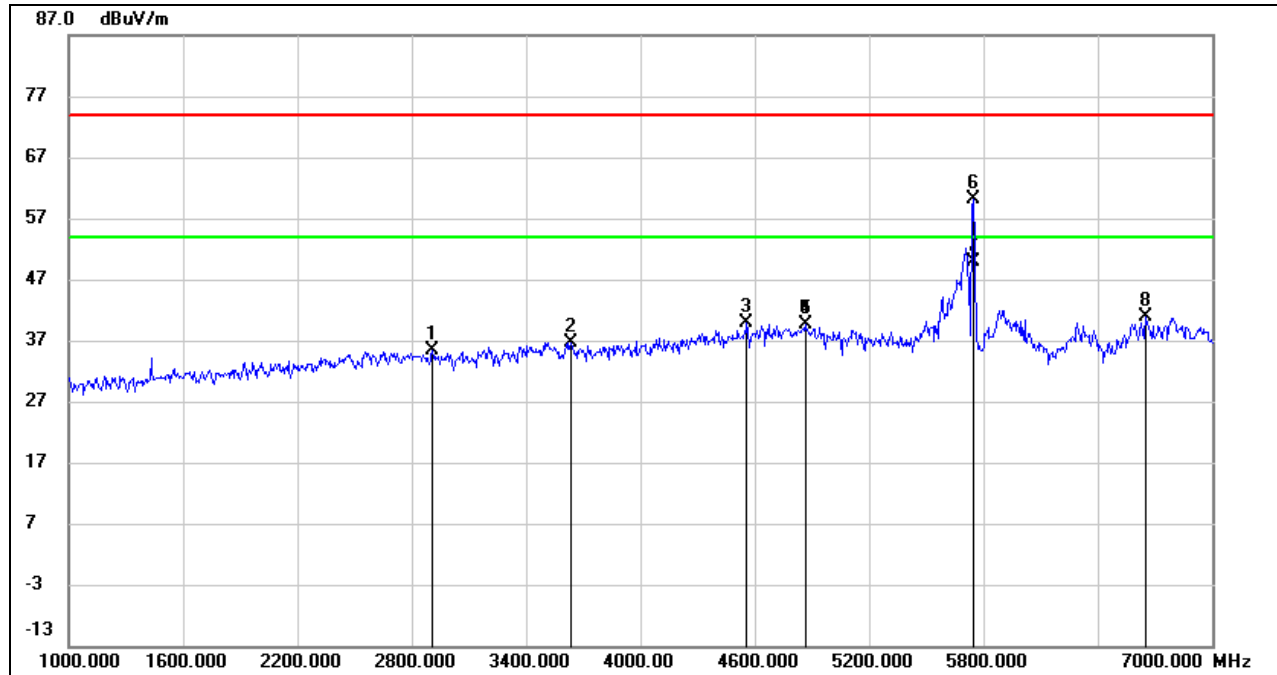
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2554.000	44.45	-8.32	36.13	74.00	-37.87	peak
2	3508.000	42.39	-5.82	36.57	74.00	-37.43	peak
3	4402.000	41.28	-2.60	38.68	74.00	-35.32	peak
4	4870.000	39.91	-0.66	39.25	74.00	-34.75	peak
5	5848.000	40.10	1.41	41.51	74.00	-32.49	peak
6	6658.000	36.06	4.49	40.55	74.00	-33.45	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-3 BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

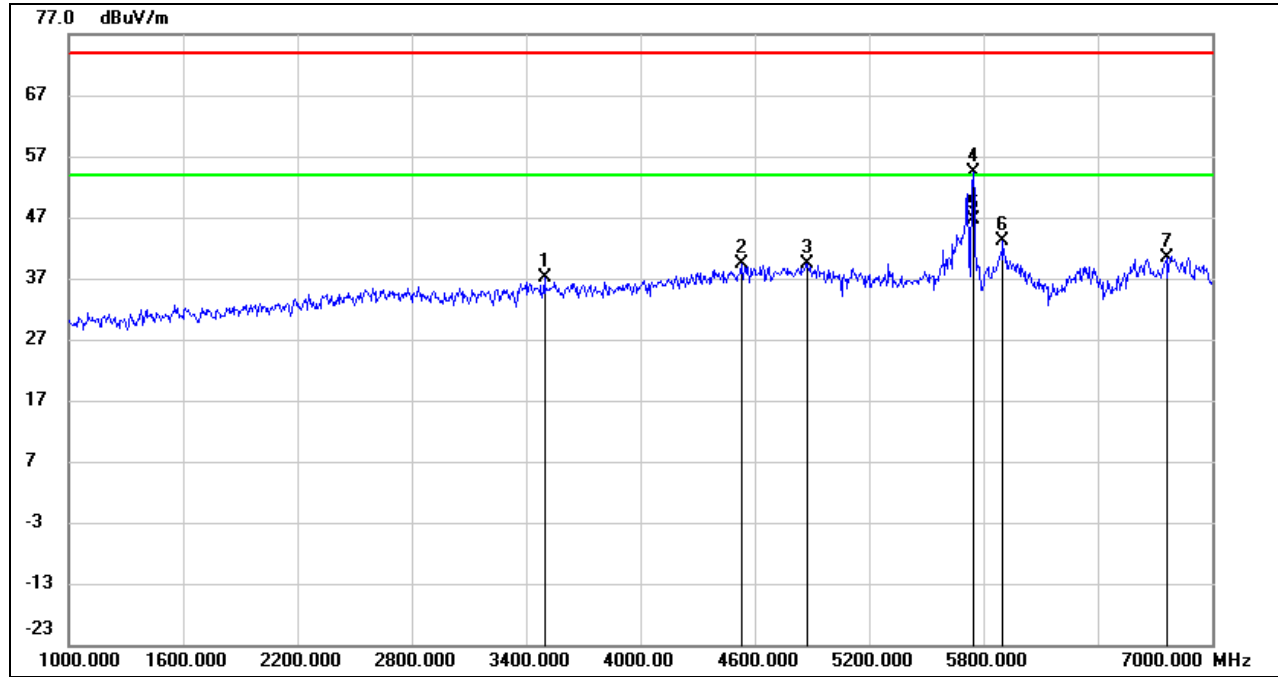
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2908.000	42.71	-7.26	35.45	74.00	-38.55	peak
2	3634.000	42.21	-5.48	36.73	74.00	-37.27	peak
3	4558.000	41.73	-1.91	39.82	74.00	-34.18	peak
4	4864.000	40.27	-0.70	39.57	74.00	-34.43	peak
5	4864.000	40.27	-0.70	39.57	74.00	-34.43	peak
6	5746.000	58.89	1.12	60.01	74.00	-13.99	peak
7	5746.000	48.74	1.12	49.86	54.00	-4.14	AVG
8	6652.000	36.30	4.47	40.77	74.00	-33.23	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

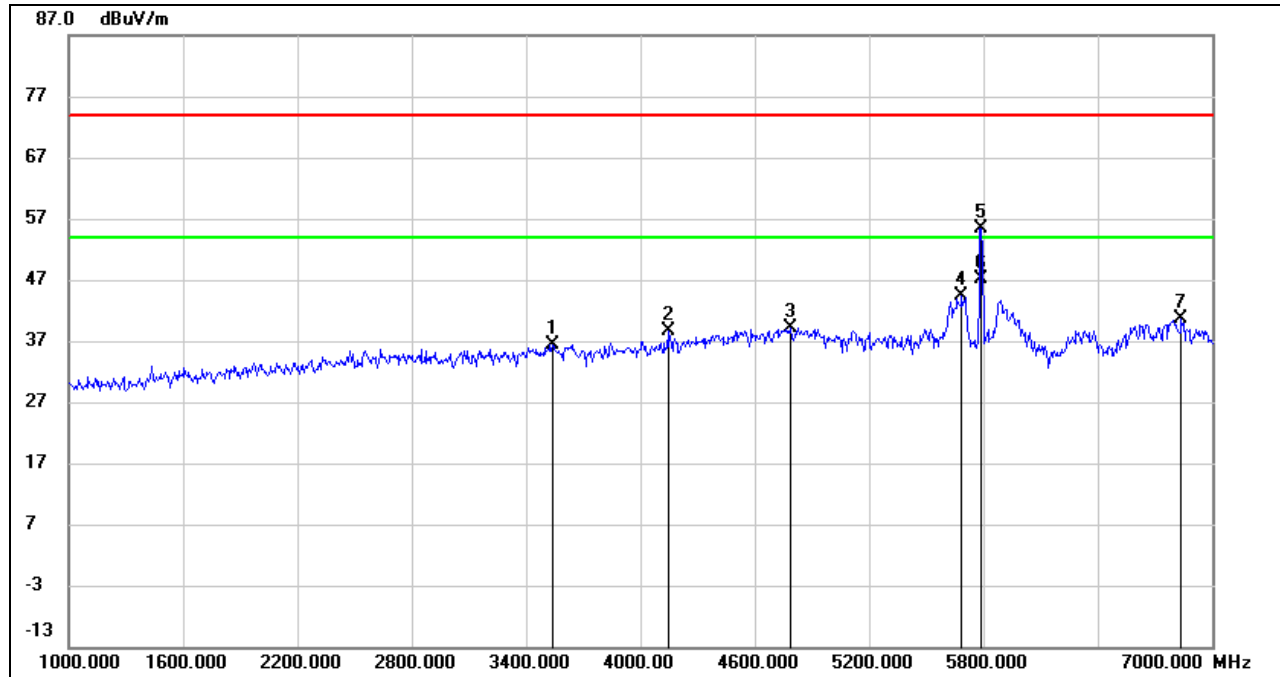
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3496.000	42.97	-5.86	37.11	74.00	-36.89	peak
2	4528.000	41.29	-2.03	39.26	74.00	-34.74	peak
3	4876.000	40.06	-0.64	39.42	74.00	-34.58	peak
4	5746.000	53.28	1.12	54.40	74.00	-19.60	peak
5	5746.000	45.39	1.12	46.51	54.00	-7.49	AVG
6	5902.000	41.54	1.57	43.11	74.00	-30.89	peak
7	6760.000	35.30	5.02	40.32	74.00	-33.68	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

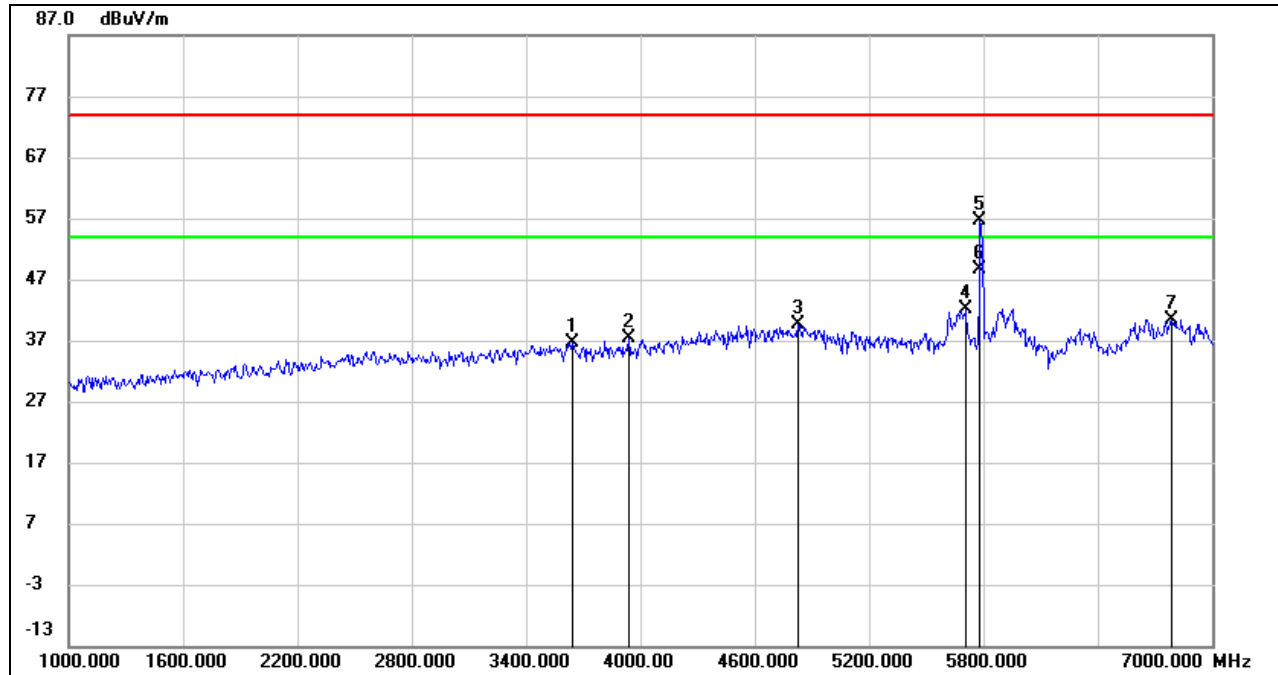


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3538.000	42.18	-5.74	36.44	74.00	-37.56	peak
2	4144.000	42.39	-3.80	38.59	74.00	-35.41	peak
3	4786.000	40.15	-1.00	39.15	74.00	-34.85	peak
4	5686.000	43.52	0.96	44.48	74.00	-29.52	peak
5	5788.000	54.11	1.25	55.36	74.00	-18.64	peak
6	5788.000	45.98	1.25	47.23	54.00	-6.77	AVG
7	6838.000	35.24	5.40	40.64	74.00	-33.36	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



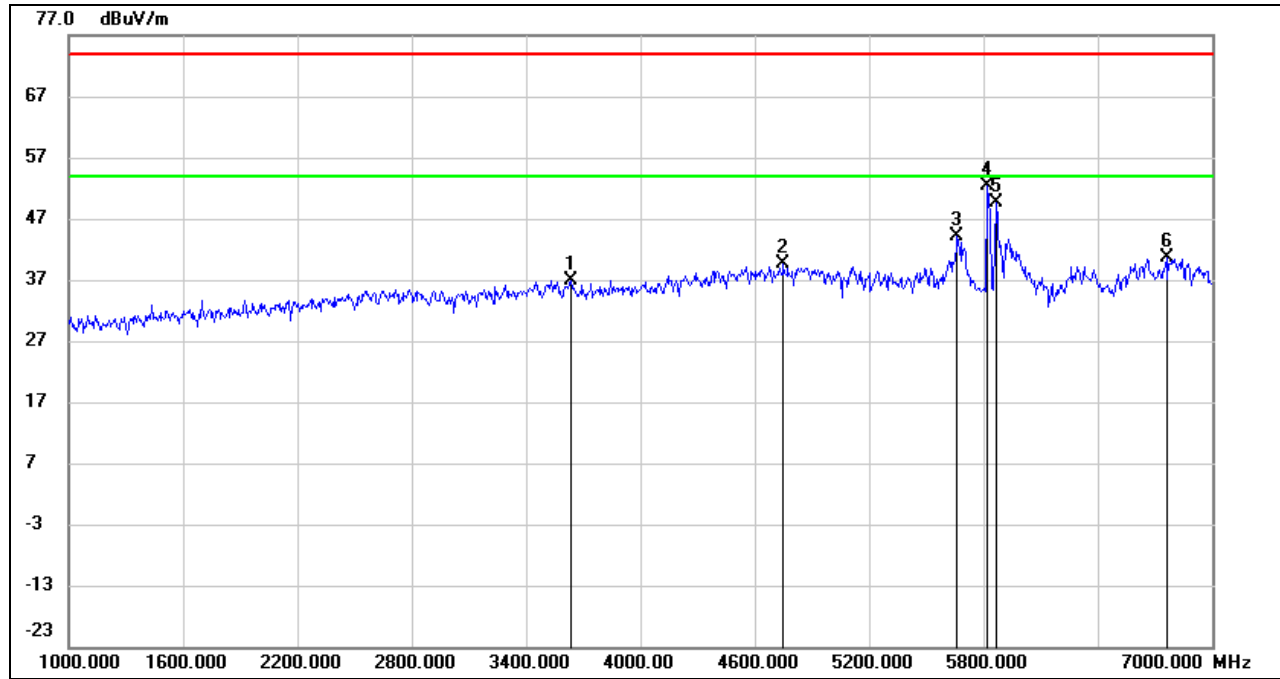
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3640.000	42.11	-5.47	36.64	74.00	-37.36	peak
2	3940.000	41.95	-4.64	37.31	74.00	-36.69	peak
3	4828.000	40.42	-0.83	39.59	74.00	-34.41	peak
4	5710.000	41.17	1.02	42.19	74.00	-31.81	peak
5	5782.000	55.49	1.23	56.72	74.00	-17.28	peak
6	5782.000	47.28	1.23	48.51	54.00	-5.49	AVG
7	6784.000	35.31	5.13	40.44	74.00	-33.56	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

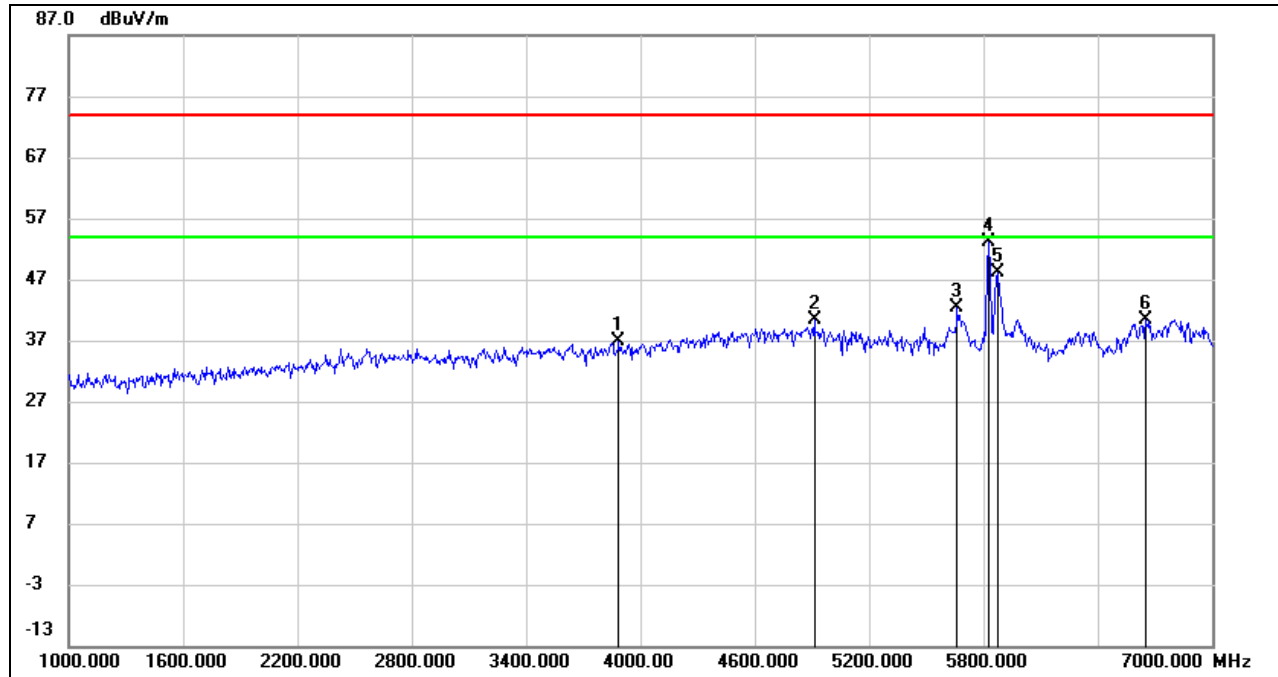


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3634.000	42.31	-5.48	36.83	74.00	-37.17	peak
2	4750.000	40.68	-1.14	39.54	74.00	-34.46	peak
3	5662.000	43.22	0.89	44.11	74.00	-29.89	peak
4	5818.000	51.10	1.33	52.43	74.00	-21.57	peak
5	5866.000	48.20	1.47	49.67	74.00	-24.33	peak
6	6760.000	35.57	5.02	40.59	74.00	-33.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3886.000	41.72	-4.79	36.93	74.00	-37.07	peak
2	4912.000	40.83	-0.50	40.33	74.00	-33.67	peak
3	5662.000	41.59	0.89	42.48	74.00	-31.52	peak
4	5830.000	51.81	1.36	53.17	74.00	-20.83	peak
5	5872.000	46.64	1.48	48.12	74.00	-25.88	peak
6	6652.000	35.86	4.47	40.33	74.00	-33.67	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

Note: All the modes, bands and antennas had been tested, but only the worst data was recorded in the report.

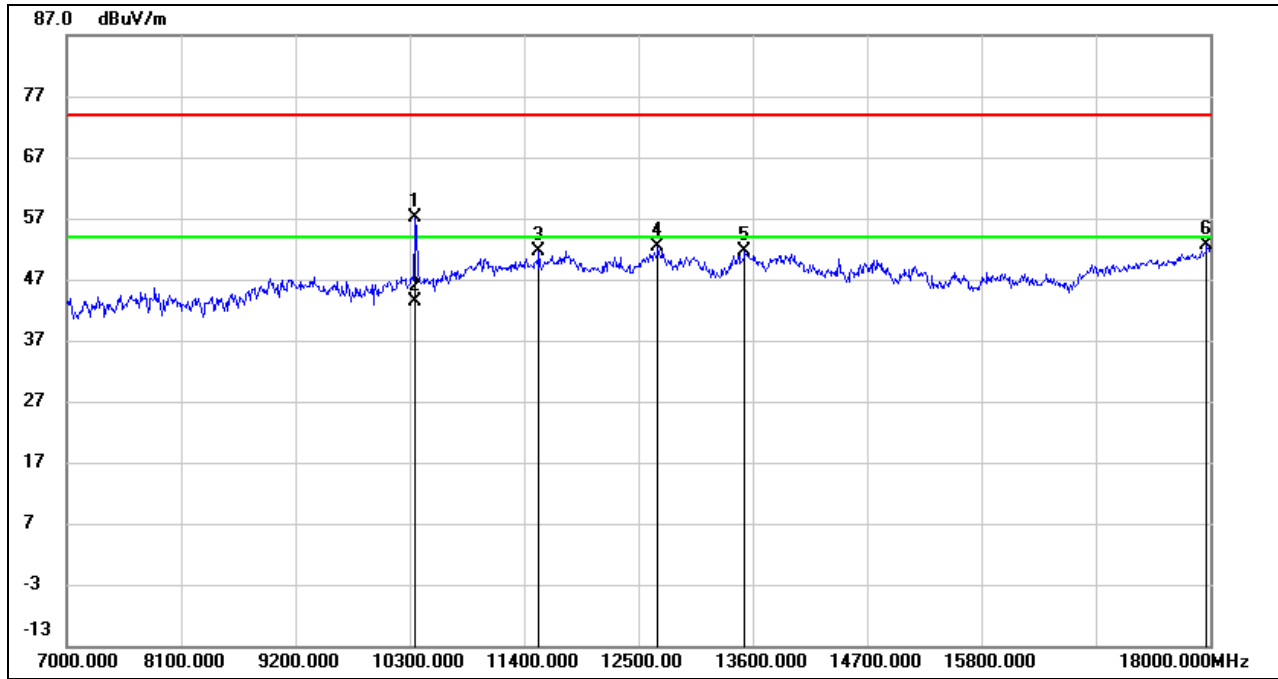
8.3. SPURIOUS EMISSIONS (7 GHz ~ 18 GHz)

8.3.1. 802.11a 20 SISO MODE

UNII-1 BAND

ANTENNA 2 TEST RESULTS (WORST CASE)

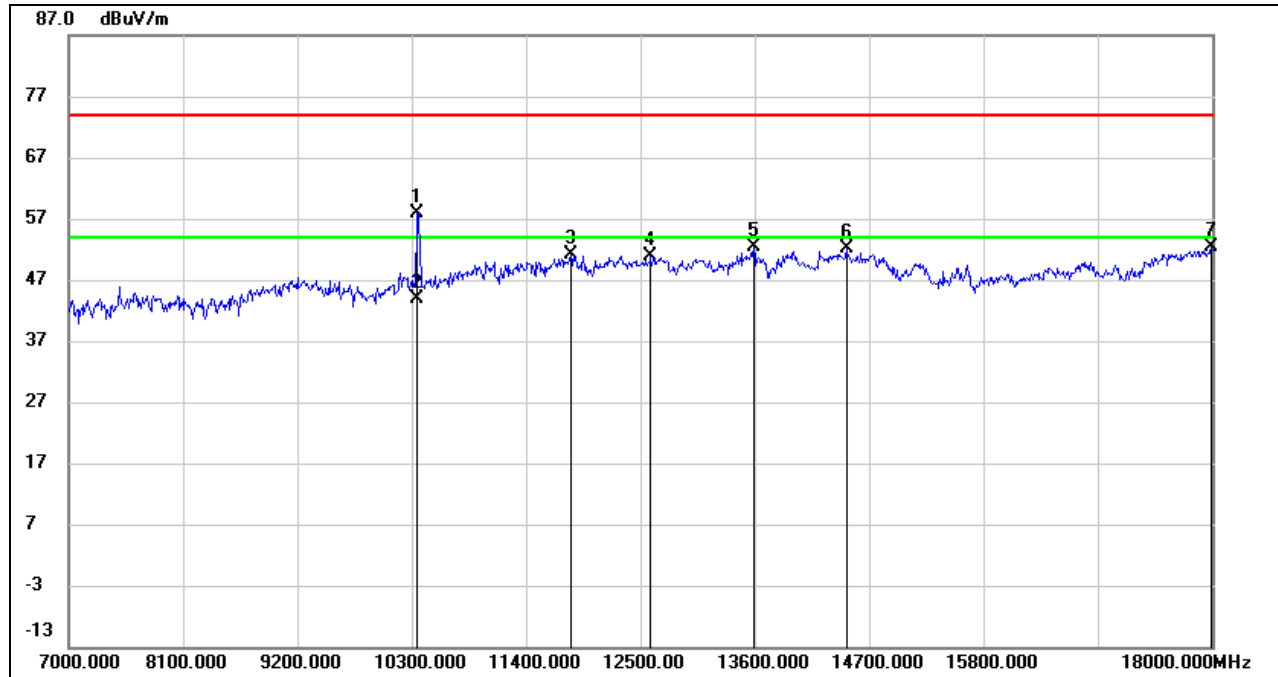
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	44.52	12.52	57.04	74.00	-16.96	peak
2	10355.000	30.94	12.52	43.46	54.00	-10.54	AVG
3	11543.000	34.81	16.84	51.65	74.00	-22.35	peak
4	12687.000	34.39	18.05	52.44	74.00	-21.56	peak
5	13523.000	30.89	20.70	51.59	74.00	-22.41	peak
6	17967.000	26.80	25.89	52.69	74.00	-21.31	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

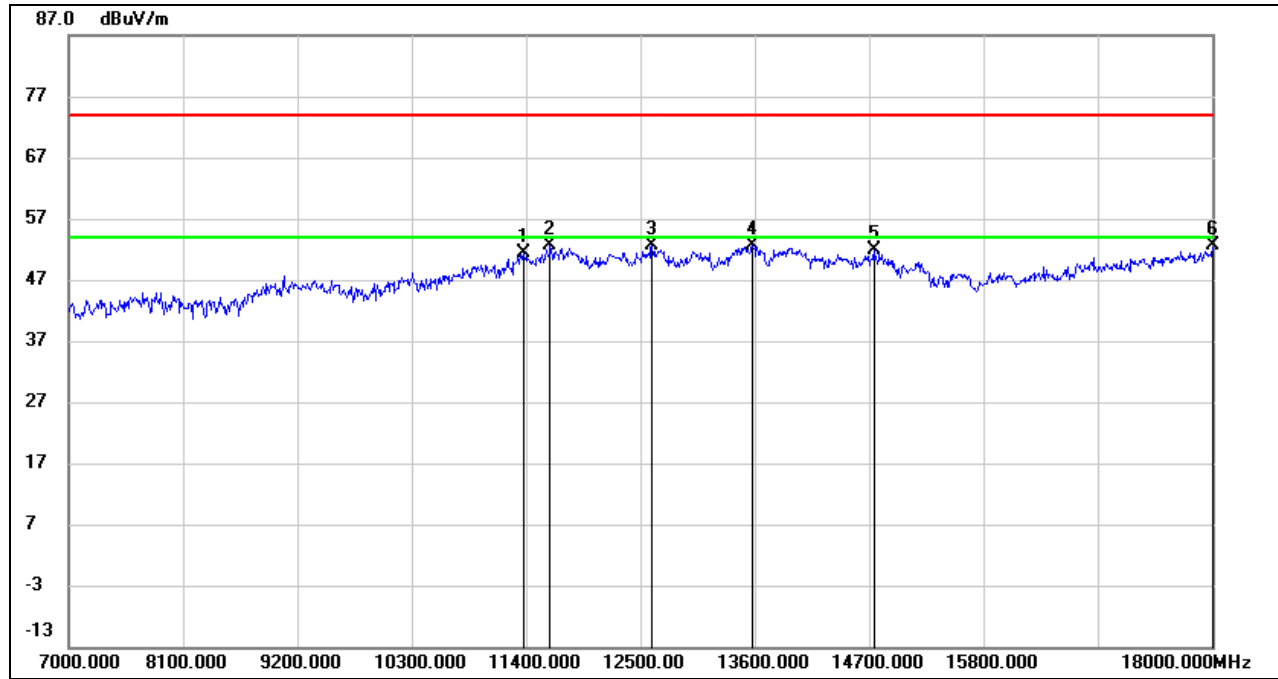
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	45.28	12.52	57.80	74.00	-16.20	peak
2	10355.000	31.34	12.52	43.86	54.00	-10.14	AVG
3	11829.000	33.68	17.38	51.06	74.00	-22.94	peak
4	12599.000	32.94	17.95	50.89	74.00	-23.11	peak
5	13589.000	31.41	20.86	52.27	74.00	-21.73	peak
6	14480.000	32.37	19.87	52.24	74.00	-21.76	peak
7	17989.000	26.26	26.04	52.30	74.00	-21.70	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

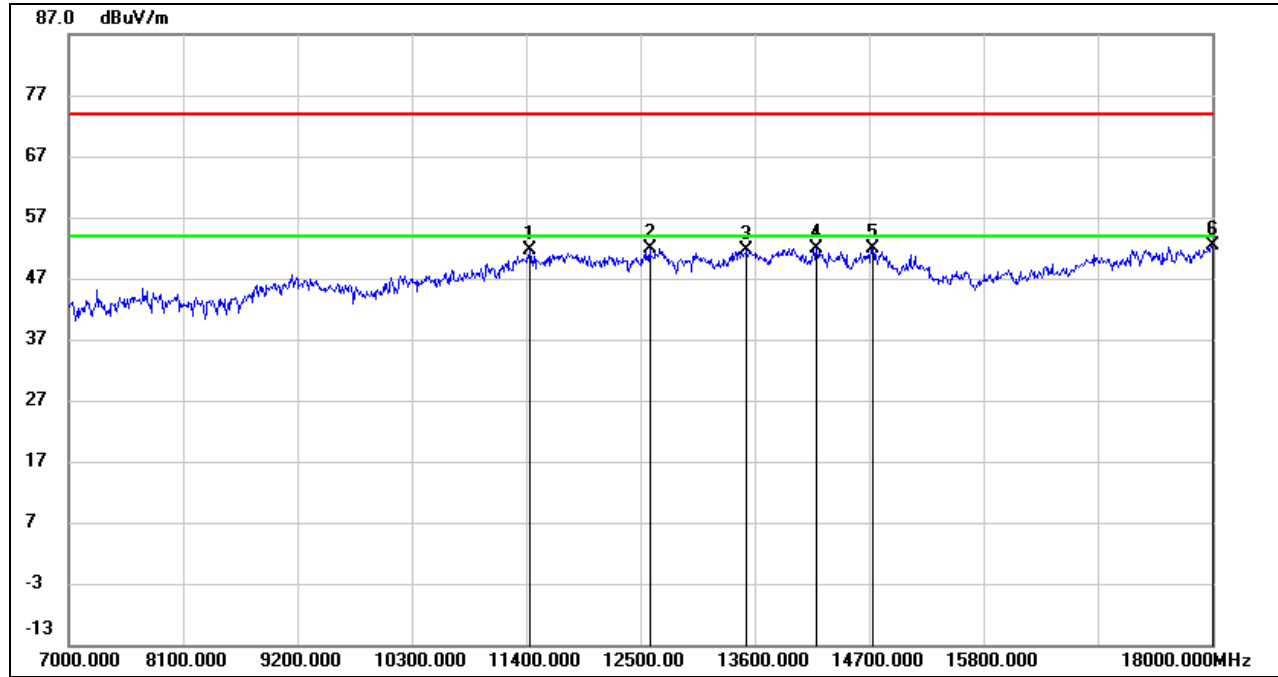
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11378.000	35.03	16.26	51.29	74.00	-22.71	peak
2	11631.000	35.56	17.01	52.57	74.00	-21.43	peak
3	12610.000	34.55	17.97	52.52	74.00	-21.48	peak
4	13578.000	31.83	20.83	52.66	74.00	-21.34	peak
5	14744.000	33.04	18.75	51.79	74.00	-22.21	peak
6	18000.000	26.51	26.12	52.63	74.00	-21.37	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

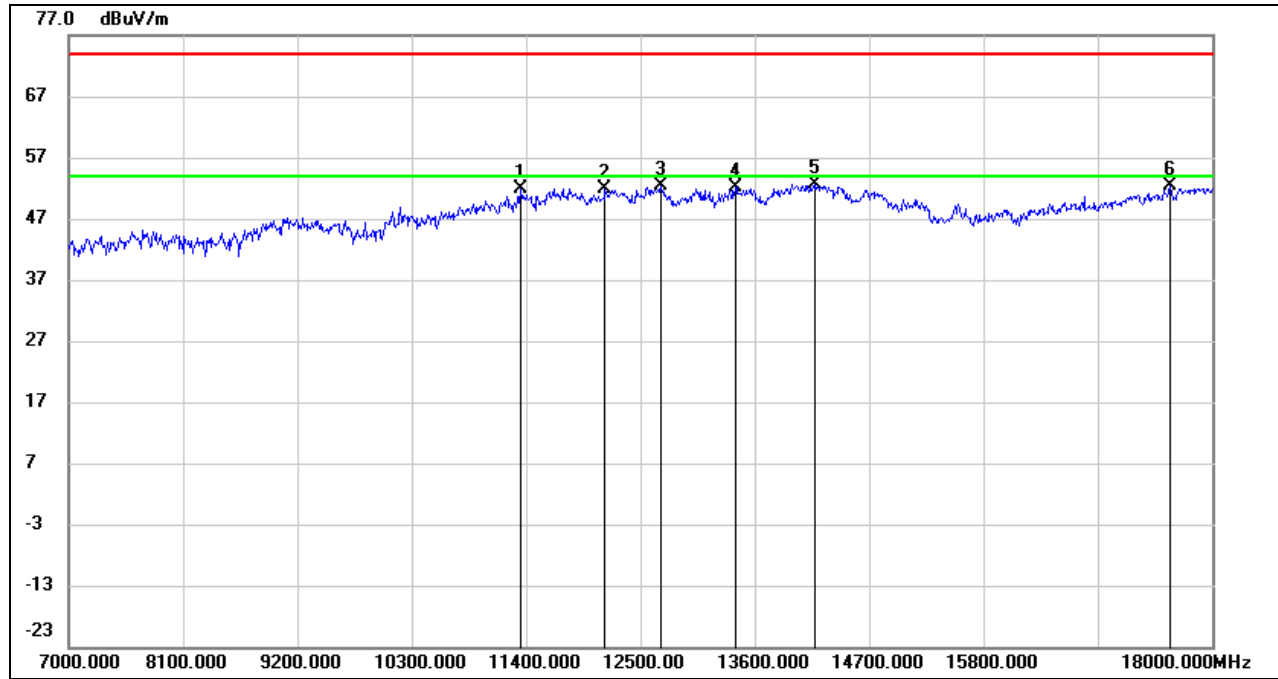
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11433.000	35.24	16.50	51.74	74.00	-22.26	peak
2	12588.000	33.96	17.94	51.90	74.00	-22.10	peak
3	13523.000	31.00	20.70	51.70	74.00	-22.30	peak
4	14194.000	30.91	21.07	51.98	74.00	-22.02	peak
5	14733.000	33.14	18.79	51.93	74.00	-22.07	peak
6	18000.000	26.22	26.12	52.34	74.00	-21.66	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

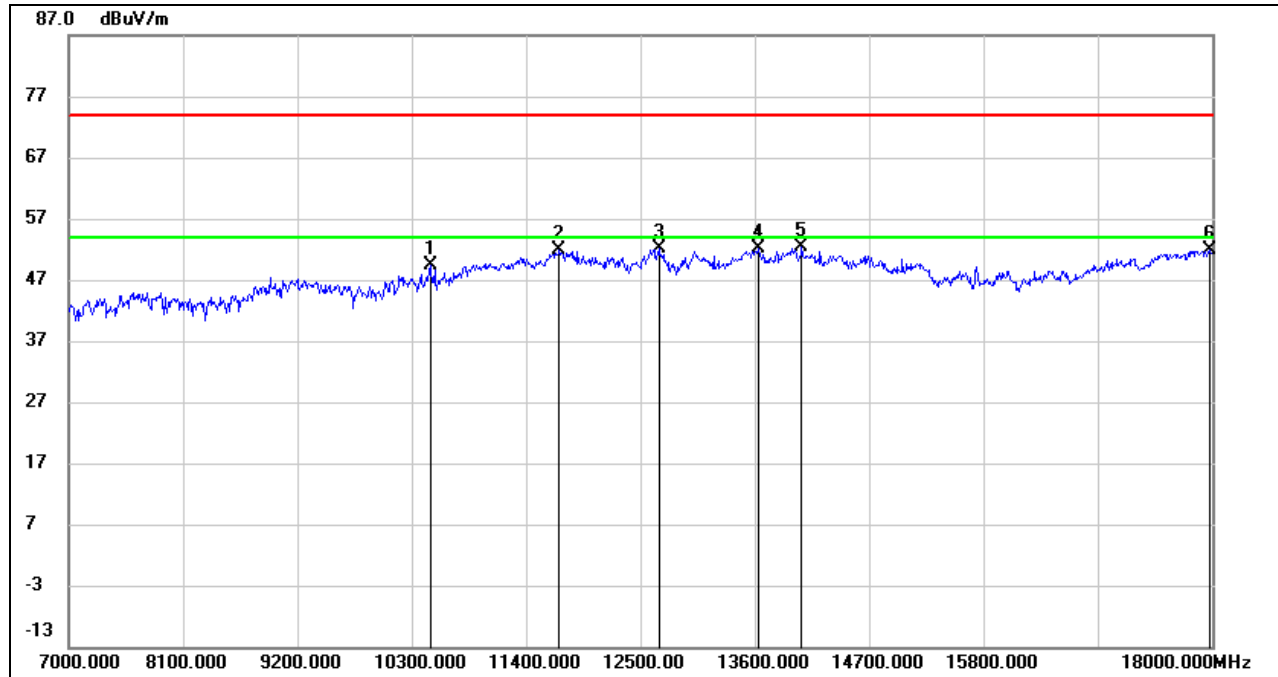


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11345.000	35.84	16.14	51.98	74.00	-22.02	peak
2	12159.000	34.17	17.73	51.90	74.00	-22.10	peak
3	12698.000	34.32	18.08	52.40	74.00	-21.60	peak
4	13413.000	31.81	20.26	52.07	74.00	-21.93	peak
5	14183.000	31.58	21.11	52.69	74.00	-21.31	peak
6	17593.000	29.08	23.34	52.42	74.00	-21.58	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10476.000	36.72	12.77	49.49	74.00	-24.51	peak
2	11719.000	34.59	17.18	51.77	74.00	-22.23	peak
3	12676.000	34.00	18.05	52.05	74.00	-21.95	peak
4	13633.000	31.22	20.97	52.19	74.00	-21.81	peak
5	14051.000	30.76	21.67	52.43	74.00	-21.57	peak
6	17978.000	26.00	25.97	51.97	74.00	-22.03	peak

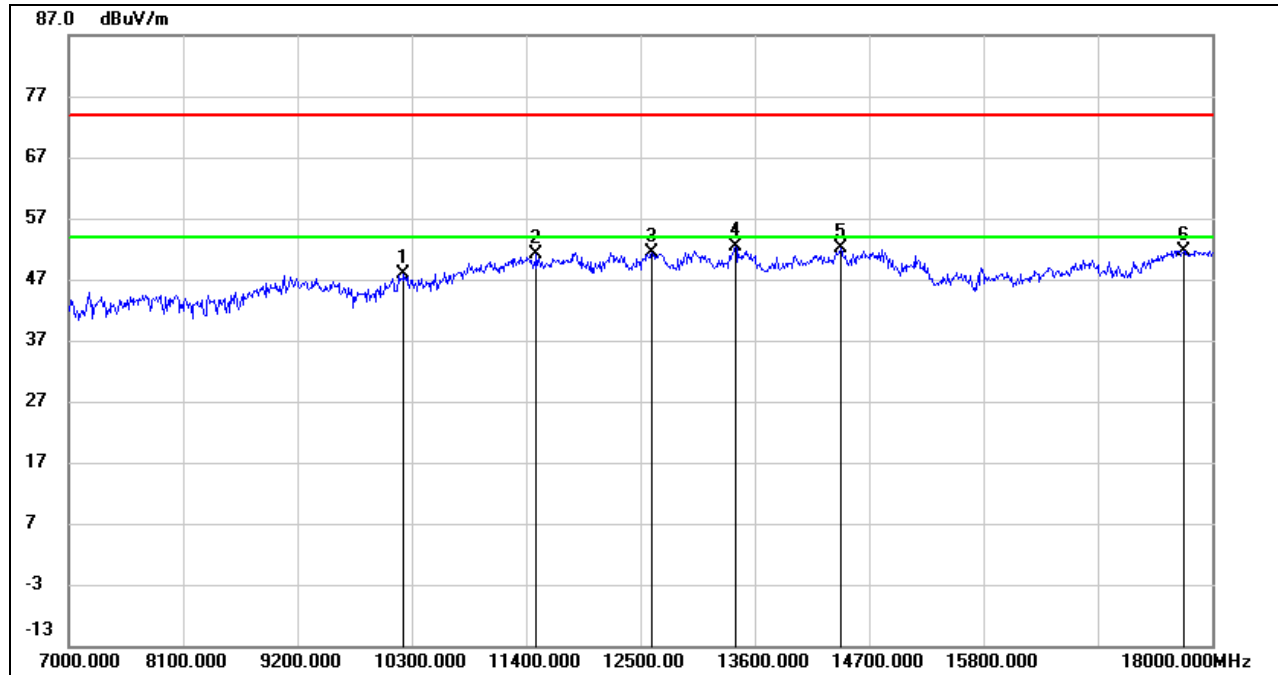
Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



UNII-2A BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

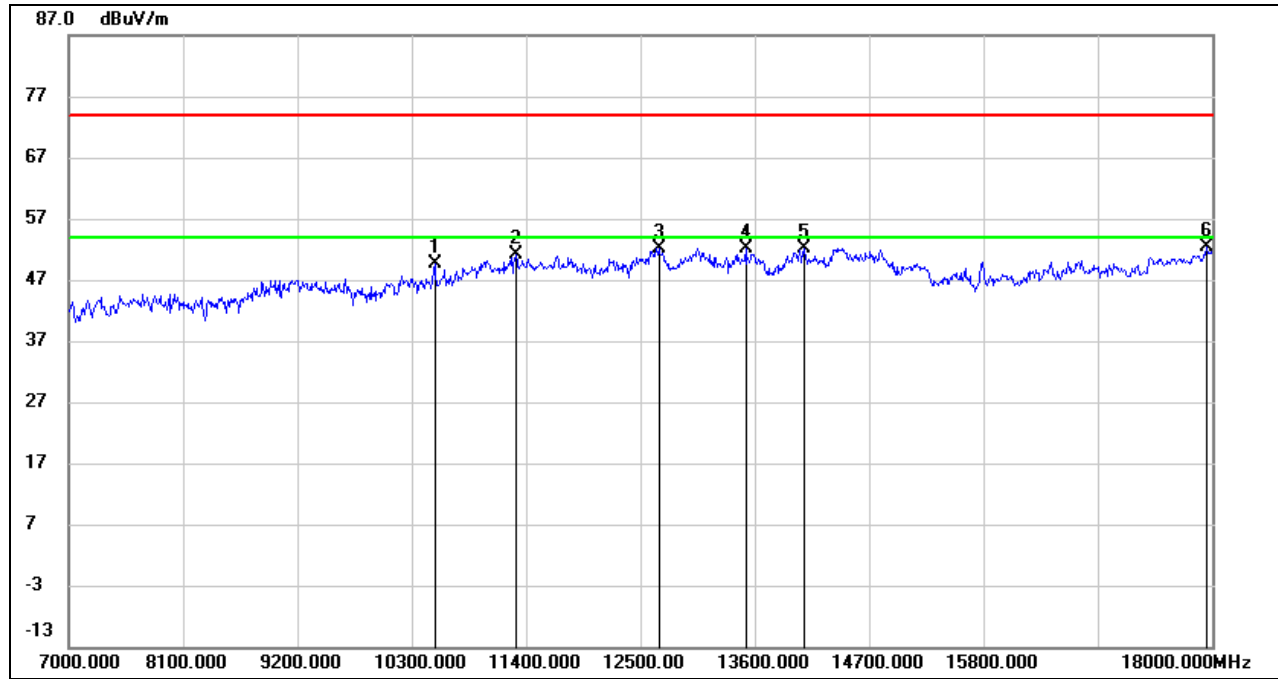
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10223.000	35.71	12.24	47.95	74.00	-26.05	peak
2	11499.000	34.26	16.77	51.03	74.00	-22.97	peak
3	12610.000	33.51	17.97	51.48	74.00	-22.52	peak
4	13413.000	32.13	20.26	52.39	74.00	-21.61	peak
5	14425.000	32.00	20.09	52.09	74.00	-21.91	peak
6	17725.000	27.50	24.24	51.74	74.00	-22.26	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

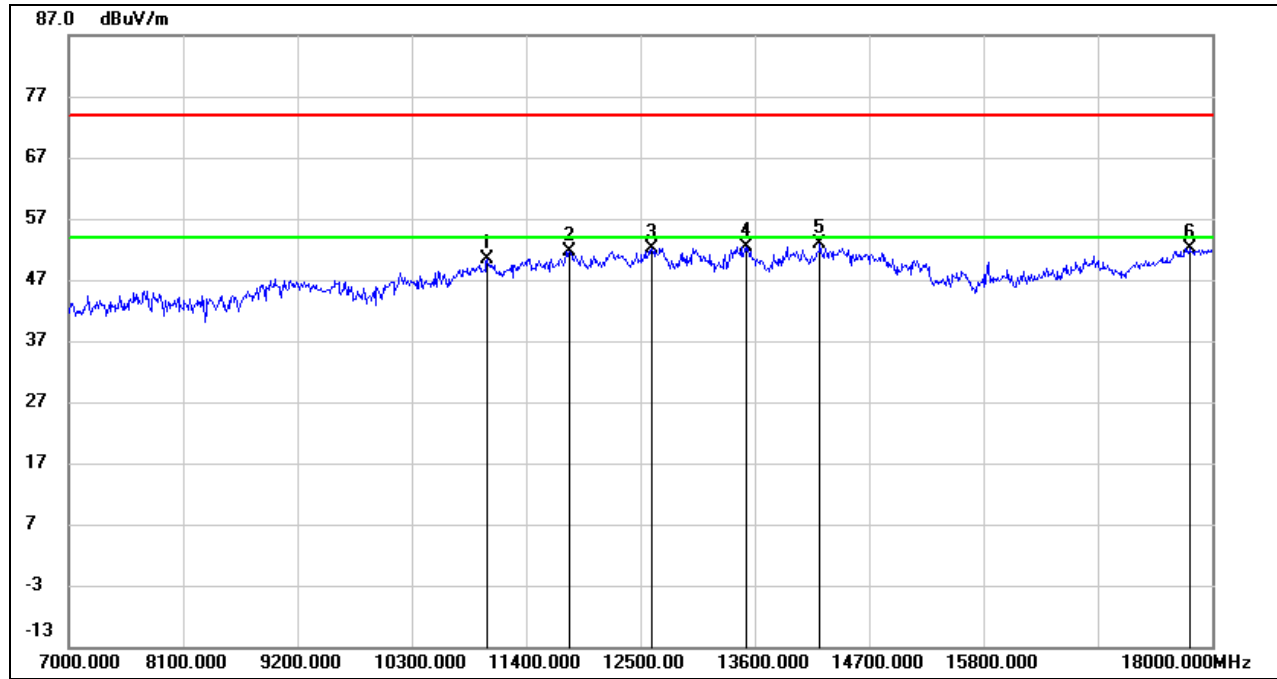
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	36.74	12.90	49.64	74.00	-24.36	peak
2	11301.000	35.08	15.95	51.03	74.00	-22.97	peak
3	12676.000	34.00	18.05	52.05	74.00	-21.95	peak
4	13512.000	31.49	20.68	52.17	74.00	-21.83	peak
5	14073.000	30.61	21.57	52.18	74.00	-21.82	peak
6	17945.000	26.63	25.75	52.38	74.00	-21.62	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

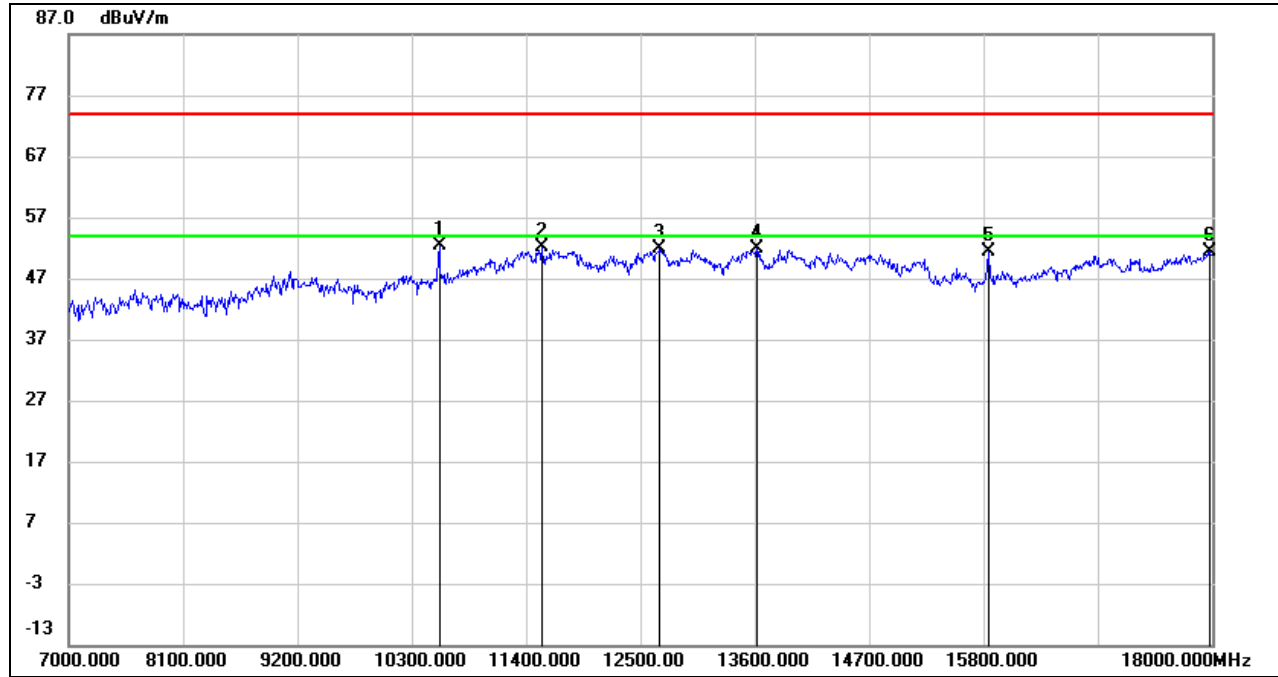
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11026.000	35.56	14.82	50.38	74.00	-23.62	peak
2	11818.000	34.24	17.36	51.60	74.00	-22.40	peak
3	12610.000	34.15	17.97	52.12	74.00	-21.88	peak
4	13523.000	31.62	20.70	52.32	74.00	-21.68	peak
5	14227.000	31.91	20.93	52.84	74.00	-21.16	peak
6	17780.000	27.61	24.61	52.22	74.00	-21.78	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

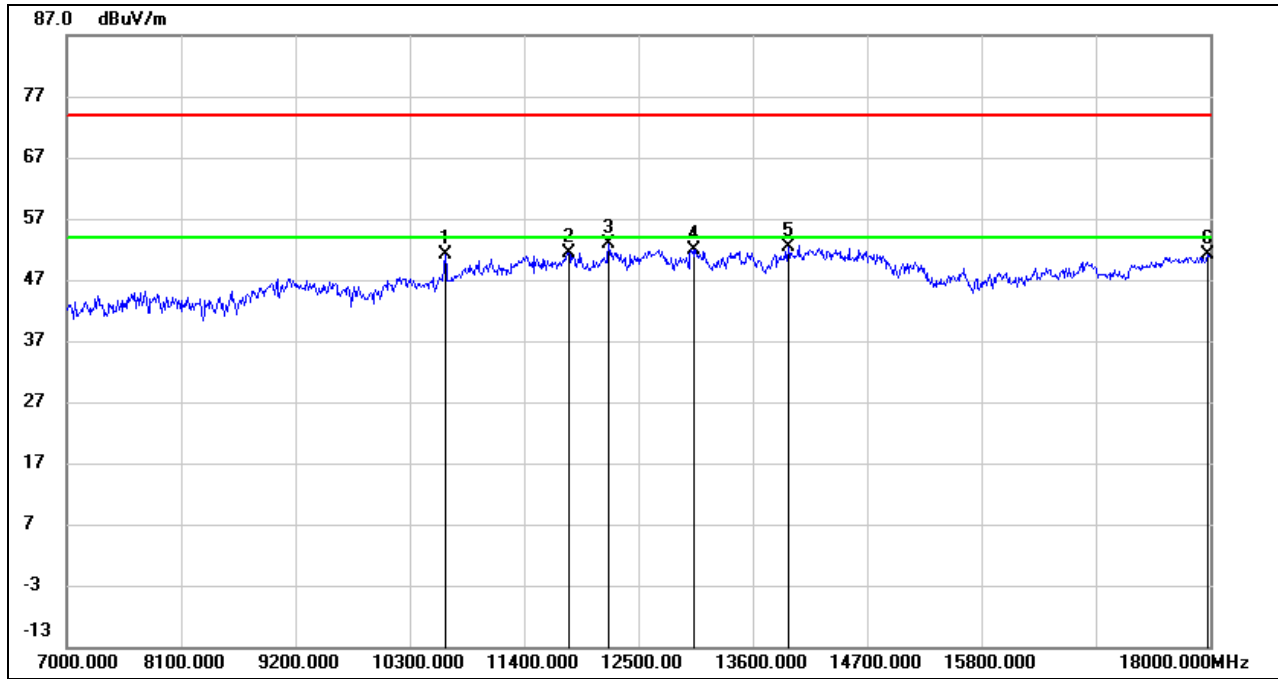
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10564.000	39.27	13.06	52.33	74.00	-21.67	peak
2	11554.000	35.38	16.87	52.25	74.00	-21.75	peak
3	12687.000	33.71	18.05	51.76	74.00	-22.24	peak
4	13622.000	30.89	20.95	51.84	74.00	-22.16	peak
5	15844.000	34.43	16.86	51.29	74.00	-22.71	peak
6	17978.000	25.52	25.97	51.49	74.00	-22.51	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

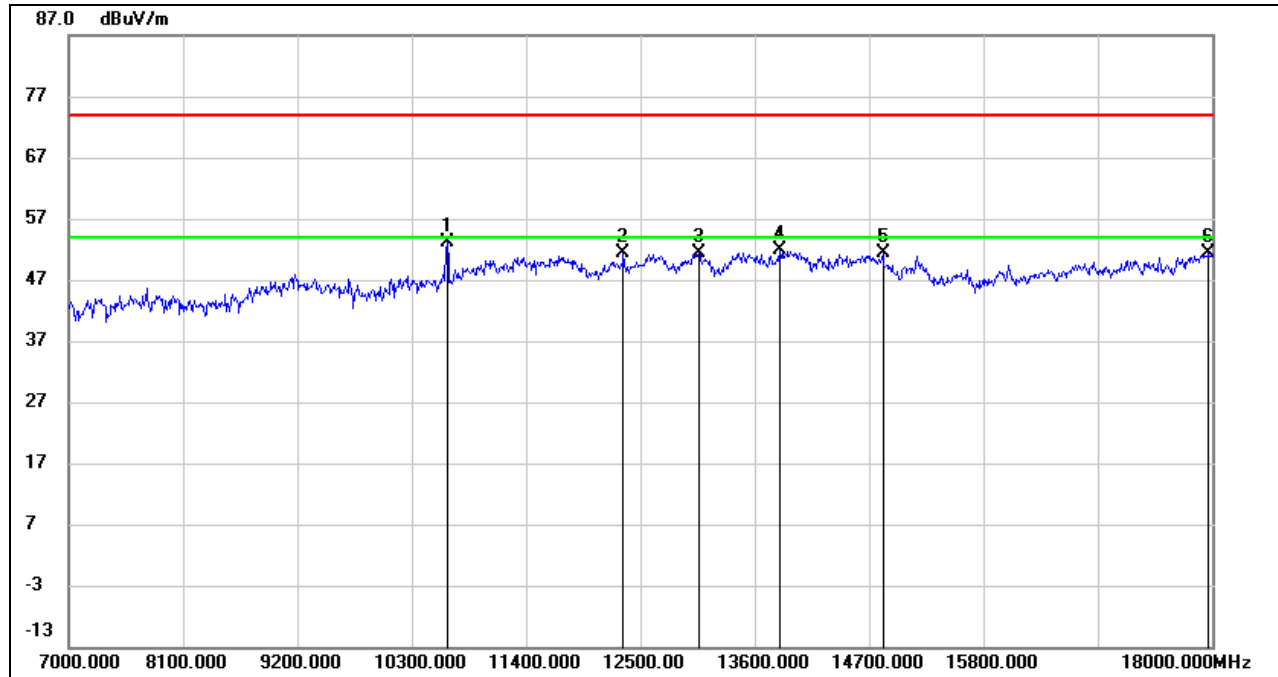


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10641.000	37.79	13.36	51.15	74.00	-22.85	peak
2	11829.000	34.00	17.38	51.38	74.00	-22.62	peak
3	12214.000	35.21	17.76	52.97	74.00	-21.03	peak
4	13028.000	33.38	18.57	51.95	74.00	-22.05	peak
5	13941.000	30.74	21.73	52.47	74.00	-21.53	peak
6	17978.000	25.16	25.97	51.13	74.00	-22.87	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



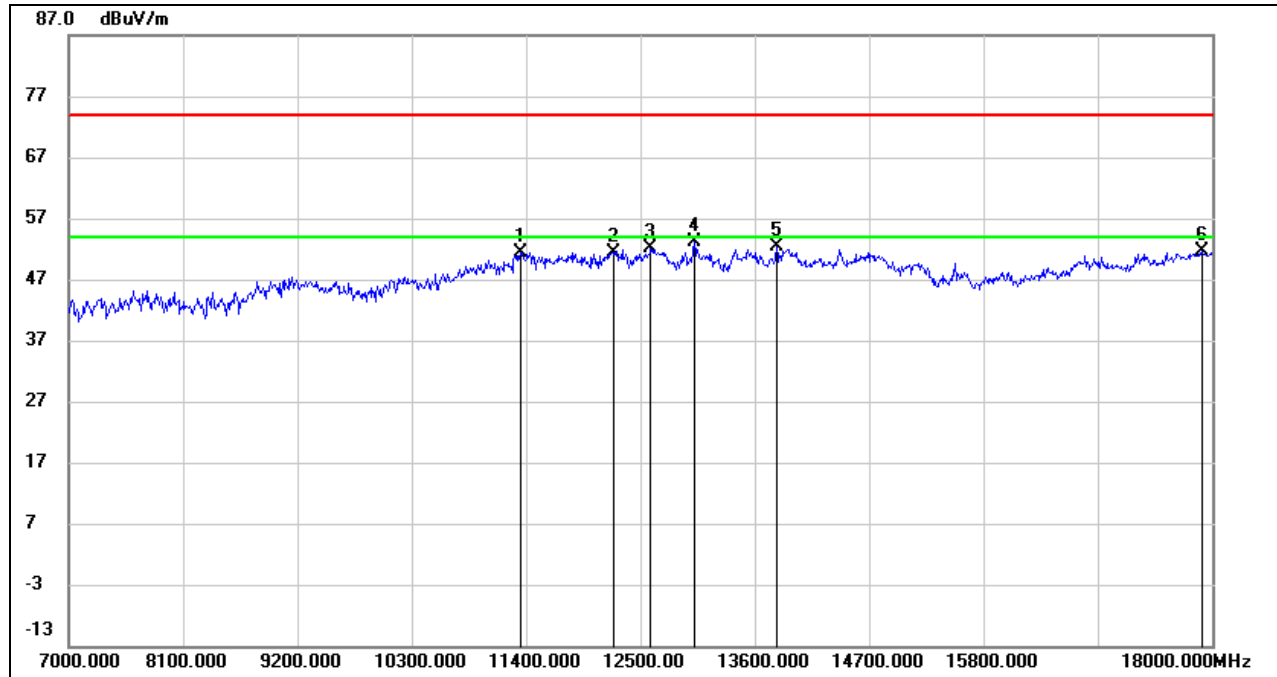
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10641.000	39.69	13.36	53.05	74.00	-20.95	peak
2	12335.000	33.52	17.79	51.31	74.00	-22.69	peak
3	13061.000	32.59	18.71	51.30	74.00	-22.70	peak
4	13842.000	30.39	21.49	51.88	74.00	-22.12	peak
5	14832.000	33.09	18.38	51.47	74.00	-22.53	peak
6	17967.000	25.52	25.89	51.41	74.00	-22.59	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2C BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

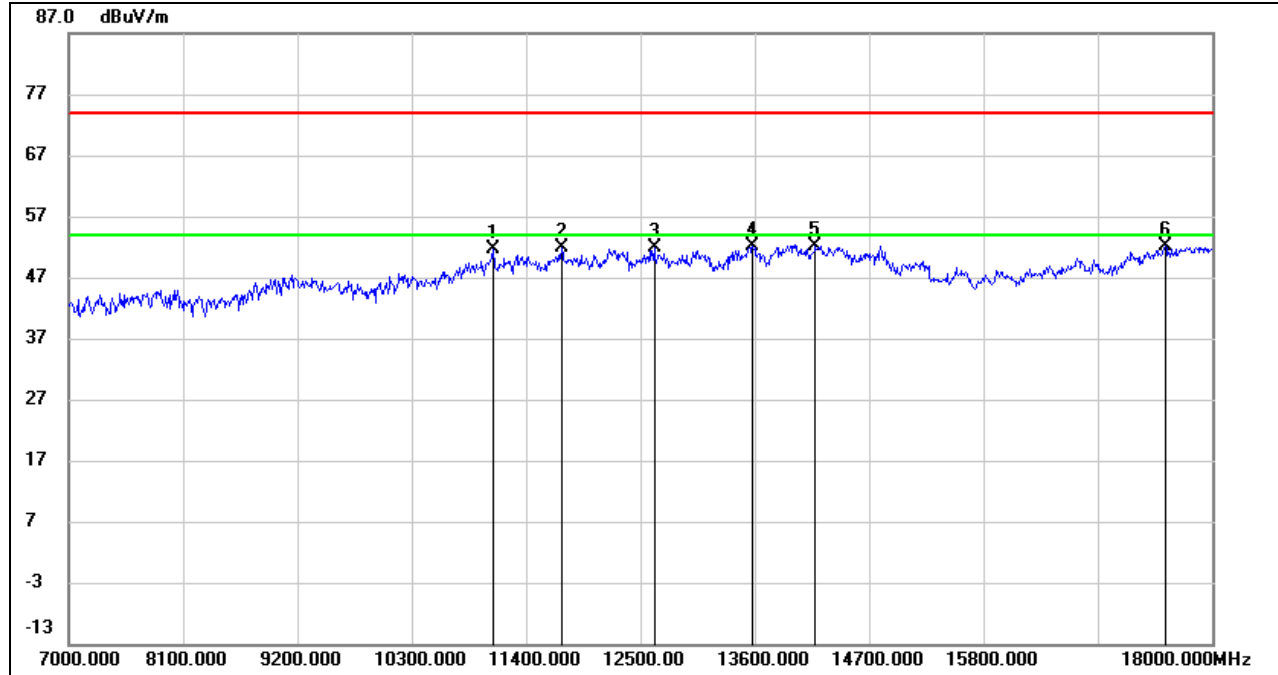
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11345.000	35.25	16.14	51.39	74.00	-22.61	peak
2	12247.000	33.68	17.77	51.45	74.00	-22.55	peak
3	12599.000	34.13	17.95	52.08	74.00	-21.92	peak
4	13017.000	34.49	18.53	53.02	74.00	-20.98	peak
5	13809.000	30.98	21.41	52.39	74.00	-21.61	peak
6	17901.000	26.26	25.45	51.71	74.00	-22.29	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

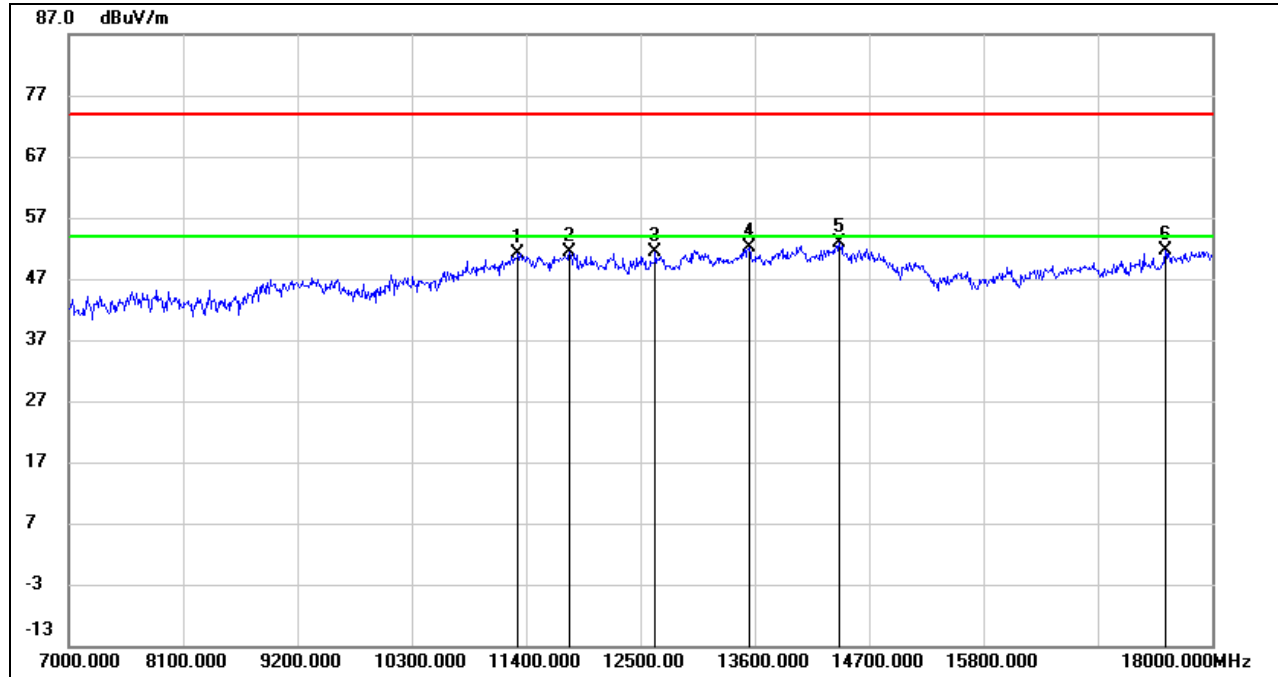
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11081.000	36.52	15.05	51.57	74.00	-22.43	peak
2	11741.000	34.56	17.22	51.78	74.00	-22.22	peak
3	12632.000	33.79	17.99	51.78	74.00	-22.22	peak
4	13578.000	31.37	20.83	52.20	74.00	-21.80	peak
5	14183.000	31.14	21.11	52.25	74.00	-21.75	peak
6	17549.000	28.98	23.04	52.02	74.00	-21.98	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

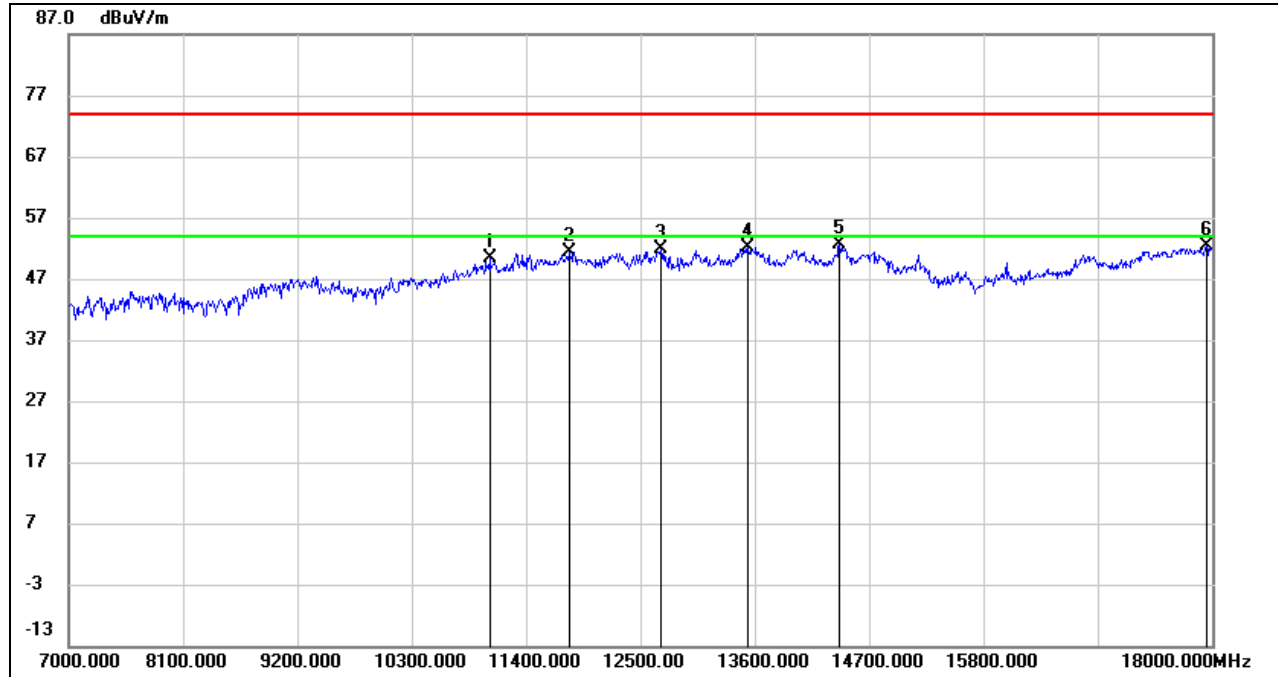
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11323.000	35.05	16.05	51.10	74.00	-22.90	peak
2	11818.000	33.96	17.36	51.32	74.00	-22.68	peak
3	12643.000	33.45	18.01	51.46	74.00	-22.54	peak
4	13545.000	31.37	20.75	52.12	74.00	-21.88	peak
5	14414.000	32.68	20.14	52.82	74.00	-21.18	peak
6	17549.000	28.55	23.04	51.59	74.00	-22.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

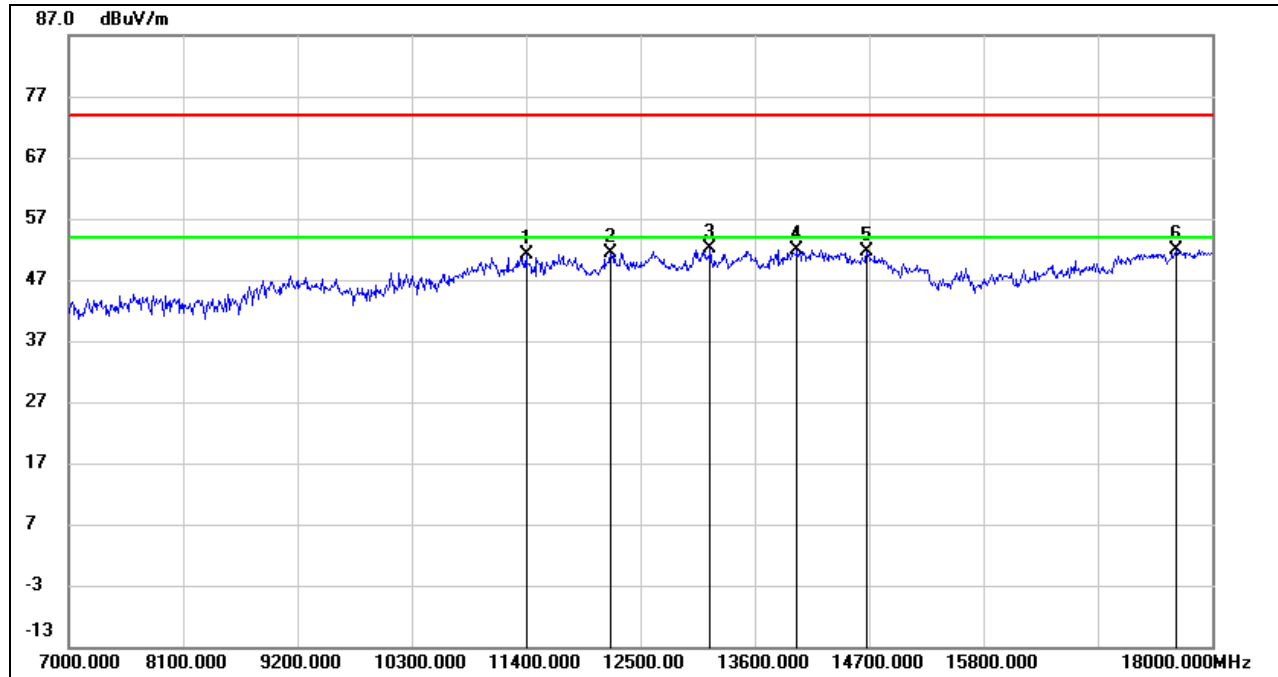
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11048.000	35.40	14.91	50.31	74.00	-23.69	peak
2	11818.000	34.10	17.36	51.46	74.00	-22.54	peak
3	12698.000	33.69	18.08	51.77	74.00	-22.23	peak
4	13534.000	31.28	20.73	52.01	74.00	-21.99	peak
5	14414.000	32.55	20.14	52.69	74.00	-21.31	peak
6	17945.000	26.55	25.75	52.30	74.00	-21.70	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

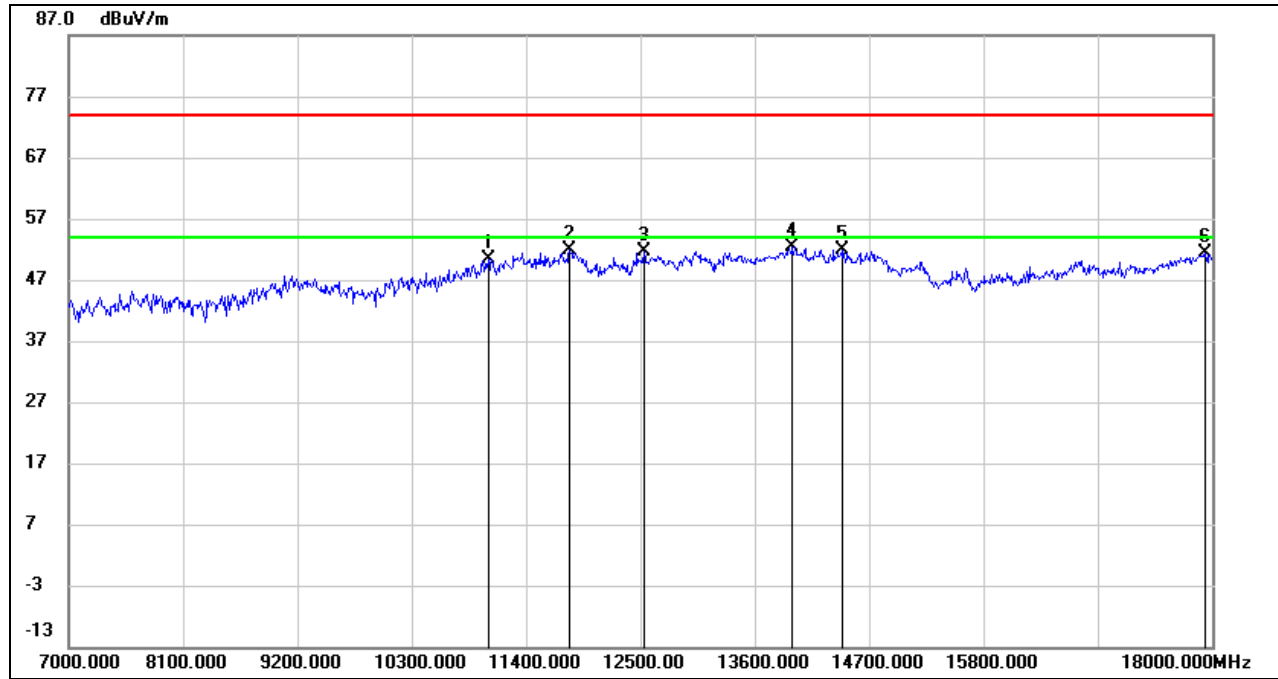
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	34.66	16.36	51.02	74.00	-22.98	peak
2	12214.000	33.56	17.76	51.32	74.00	-22.68	peak
3	13171.000	32.89	19.20	52.09	74.00	-21.91	peak
4	14007.000	30.07	21.85	51.92	74.00	-22.08	peak
5	14678.000	32.53	19.03	51.56	74.00	-22.44	peak
6	17659.000	28.14	23.78	51.92	74.00	-22.08	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



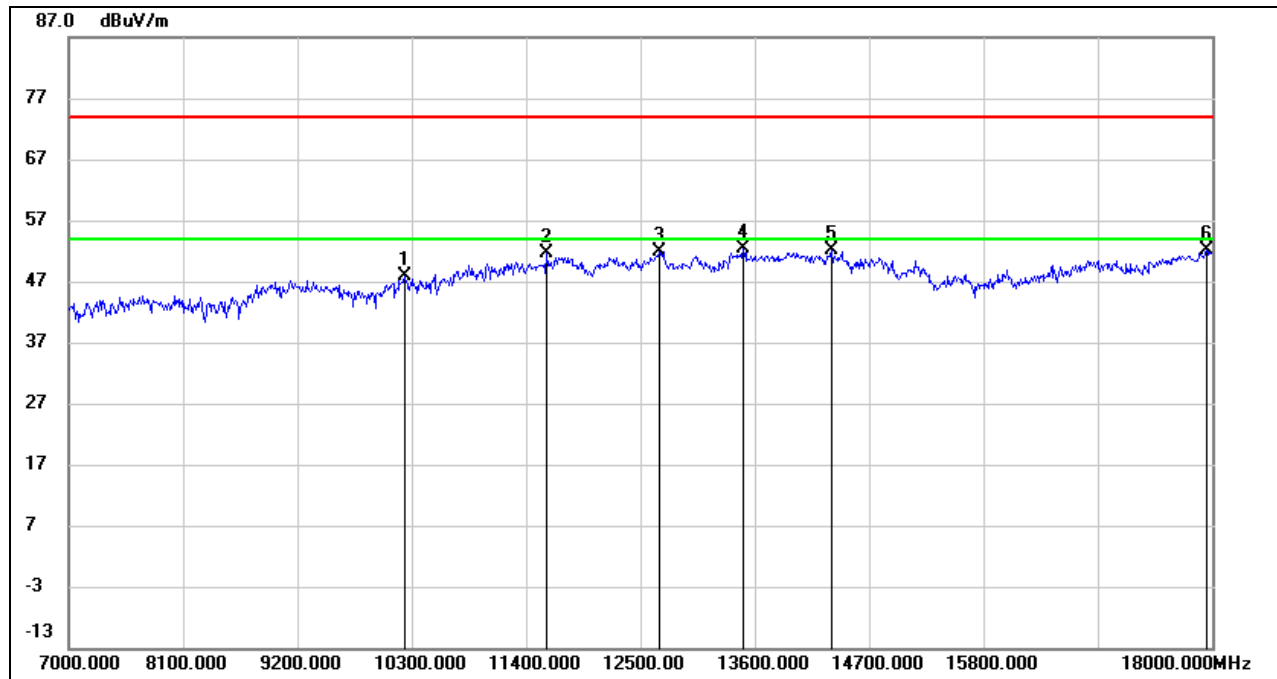
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11037.000	35.62	14.87	50.49	74.00	-23.51	peak
2	11818.000	34.46	17.36	51.82	74.00	-22.18	peak
3	12533.000	33.76	17.87	51.63	74.00	-22.37	peak
4	13963.000	30.69	21.78	52.47	74.00	-21.53	peak
5	14436.000	31.88	20.05	51.93	74.00	-22.07	peak
6	17934.000	25.62	25.67	51.29	74.00	-22.71	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

STRADDLE CHANNEL 144

ANTENNA 1 TEST RESULTS (WORST CASE)

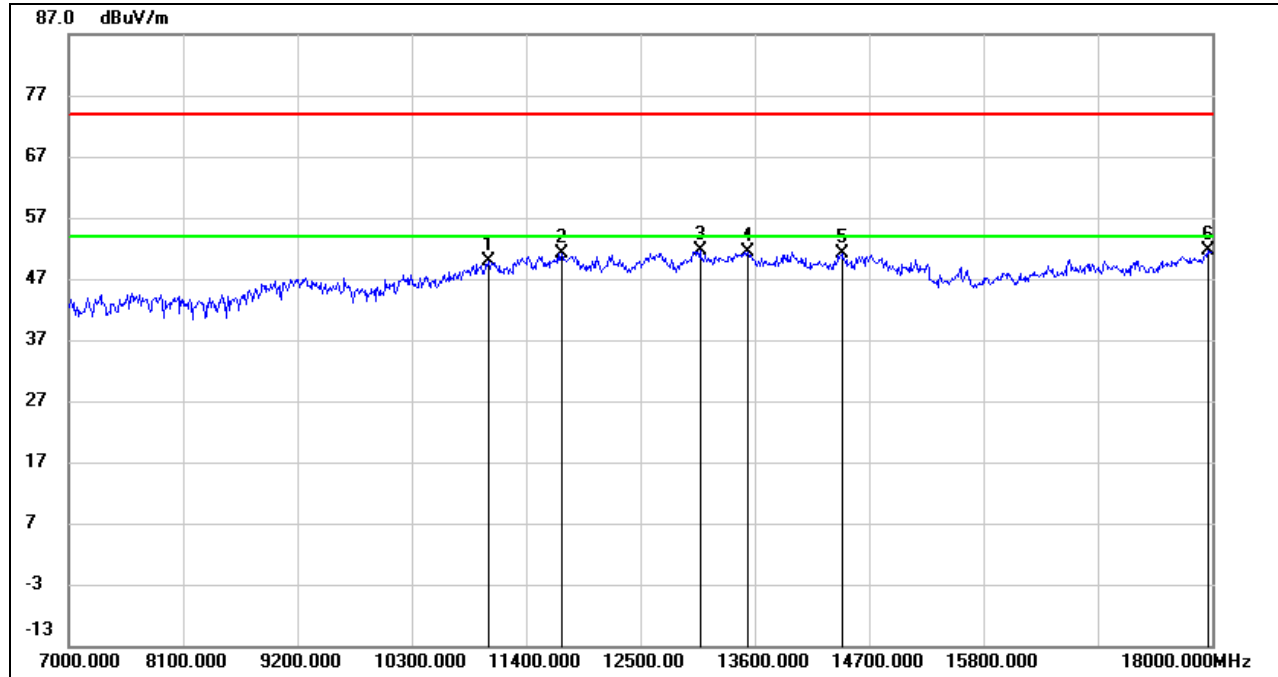
HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10234.000	35.59	12.26	47.85	74.00	-26.15	peak
2	11598.000	34.76	16.96	51.72	74.00	-22.28	peak
3	12687.000	33.74	18.05	51.79	74.00	-22.21	peak
4	13490.000	31.83	20.60	52.43	74.00	-21.57	peak
5	14337.000	31.67	20.46	52.13	74.00	-21.87	peak
6	17945.000	26.50	25.75	52.25	74.00	-21.75	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



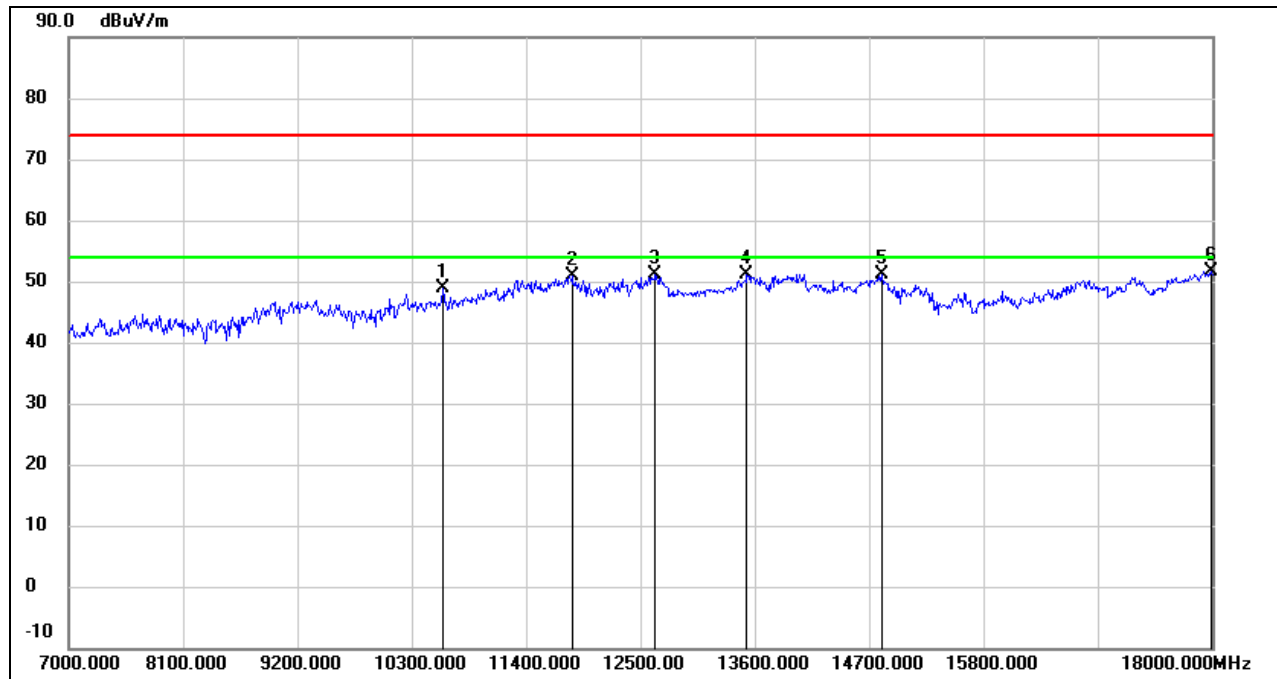
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11037.000	34.89	14.87	49.76	74.00	-24.24	peak
2	11741.000	33.91	17.22	51.13	74.00	-22.87	peak
3	13072.000	32.94	18.77	51.71	74.00	-22.29	peak
4	13534.000	30.69	20.73	51.42	74.00	-22.58	peak
5	14436.000	31.15	20.05	51.20	74.00	-22.80	peak
6	17956.000	25.70	25.82	51.52	74.00	-22.48	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-3 BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

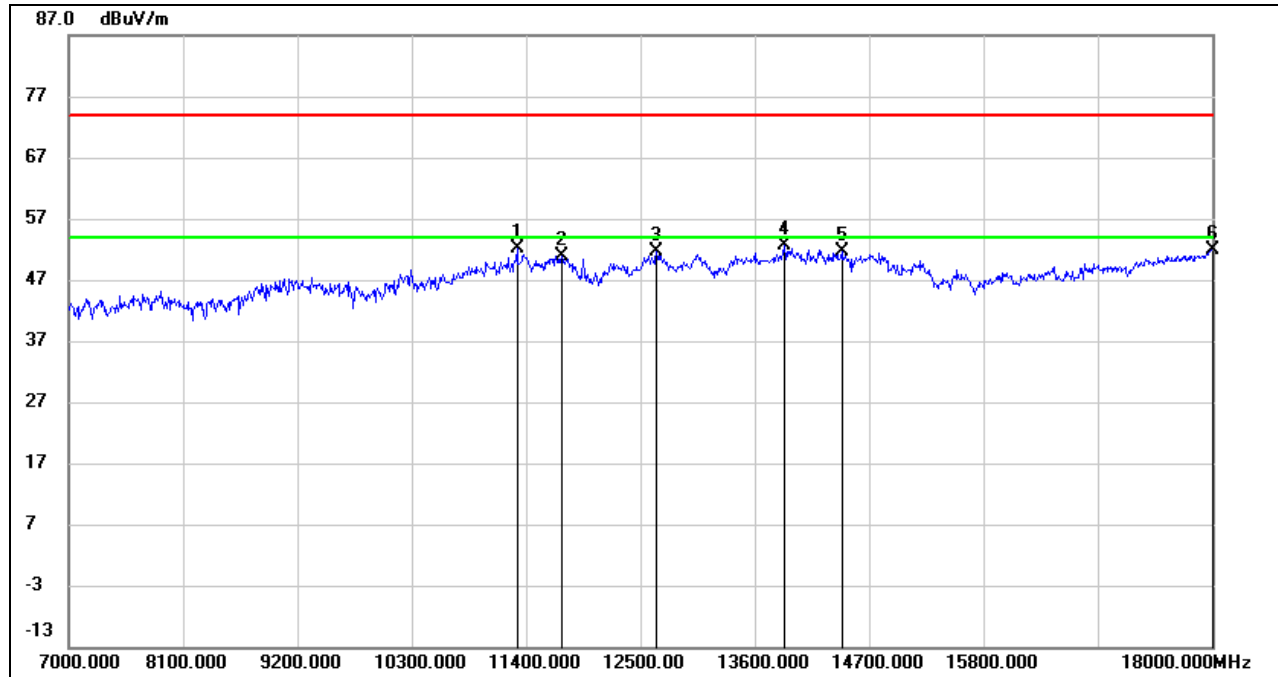


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10597.000	35.76	13.19	48.95	74.00	-25.05	peak
2	11840.000	33.49	17.40	50.89	74.00	-23.11	peak
3	12643.000	33.03	18.01	51.04	74.00	-22.96	peak
4	13523.000	30.45	20.70	51.15	74.00	-22.85	peak
5	14821.000	32.78	18.42	51.20	74.00	-22.80	peak
6	17989.000	25.60	26.04	51.64	74.00	-22.36	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



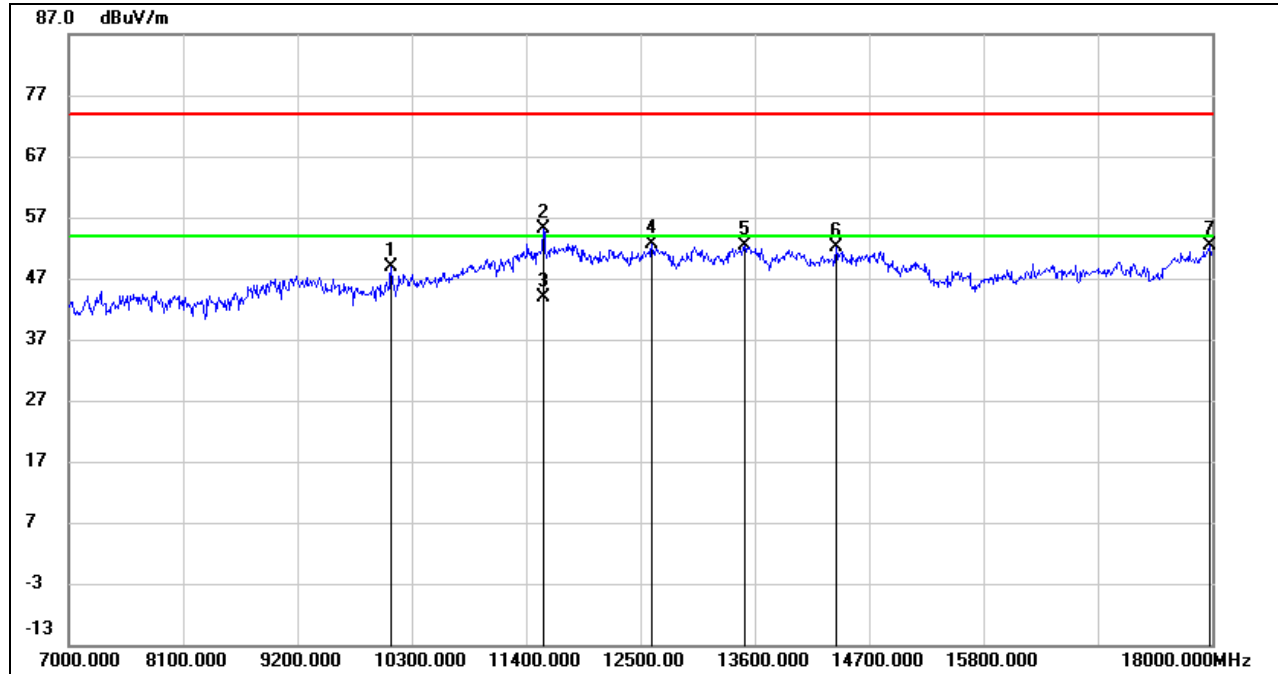
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11312.000	36.04	16.00	52.04	74.00	-21.96	peak
2	11741.000	33.66	17.22	50.88	74.00	-23.12	peak
3	12654.000	33.71	18.01	51.72	74.00	-22.28	peak
4	13886.000	31.00	21.60	52.60	74.00	-21.40	peak
5	14436.000	31.53	20.05	51.58	74.00	-22.42	peak
6	18000.000	25.87	26.12	51.99	74.00	-22.01	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

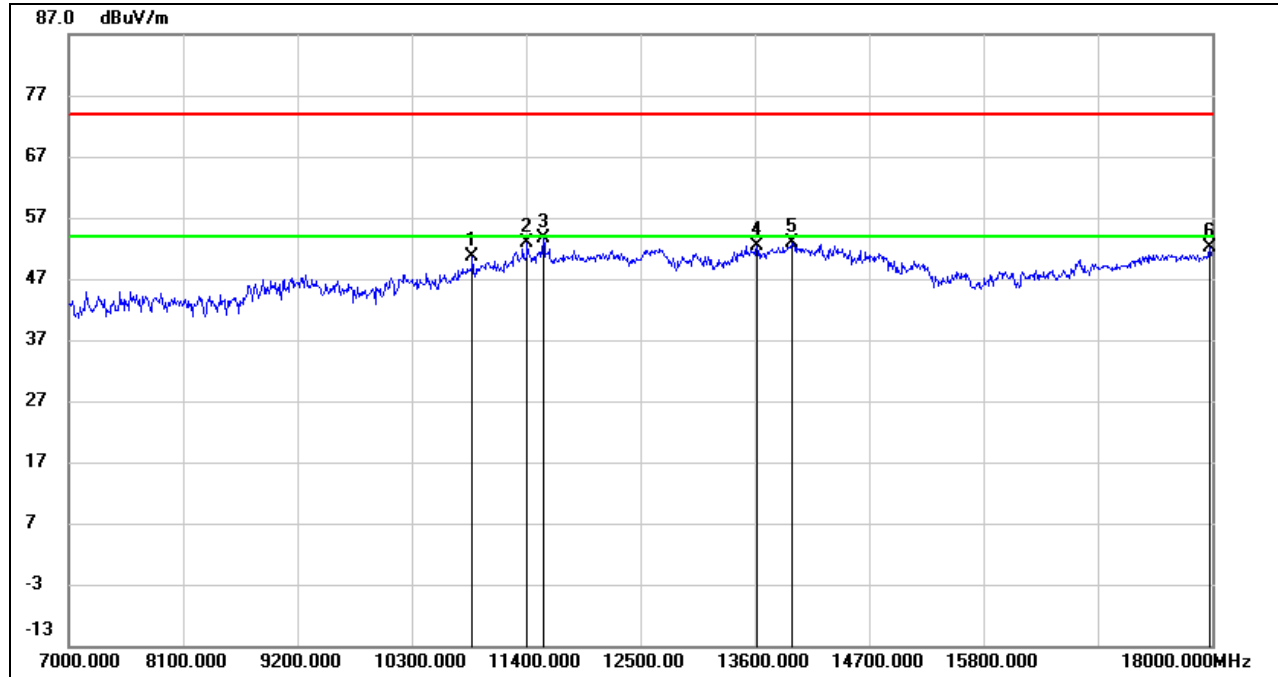
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10102.000	36.93	11.98	48.91	74.00	-25.09	peak
2	11565.000	38.35	16.89	55.24	74.00	-18.76	peak
3	11565.000	26.87	16.89	43.76	54.00	-10.24	AVG
4	12610.000	34.64	17.97	52.61	74.00	-21.39	peak
5	13501.000	31.65	20.64	52.29	74.00	-21.71	peak
6	14381.000	31.83	20.28	52.11	74.00	-21.89	peak
7	17978.000	26.43	25.97	52.40	74.00	-21.60	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

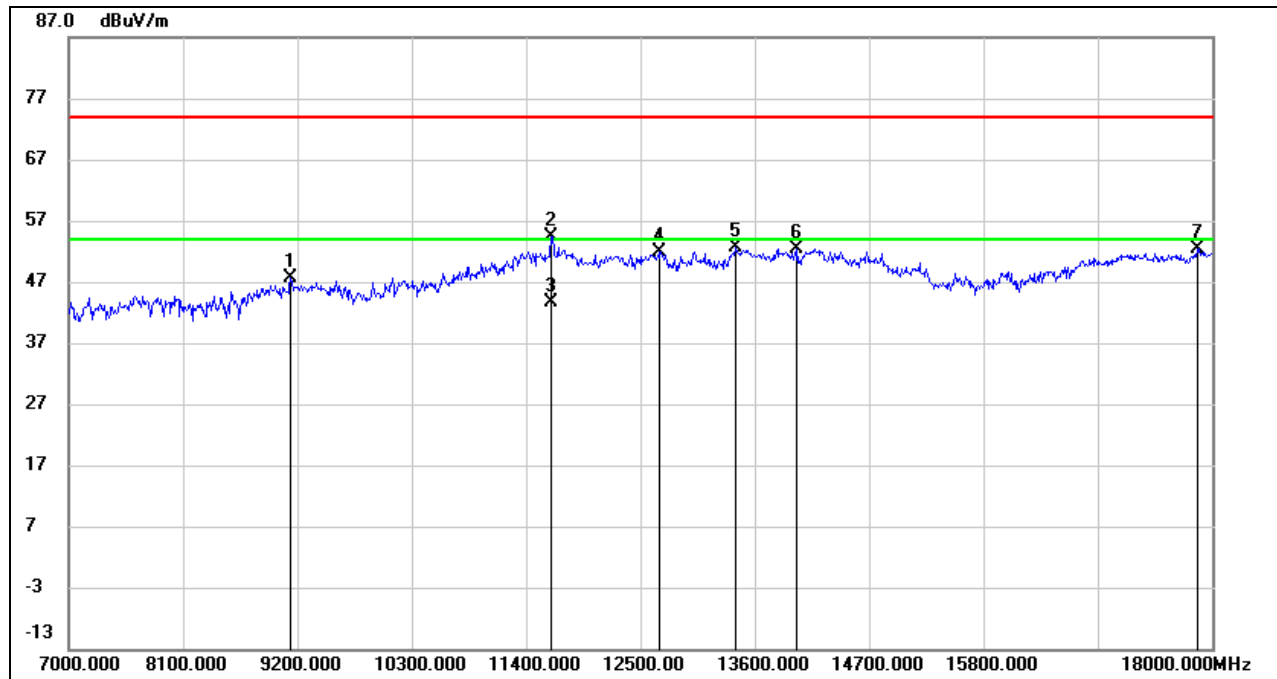
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10883.000	36.41	14.27	50.68	74.00	-23.32	peak
2	11411.000	36.39	16.41	52.80	74.00	-21.20	peak
3	11565.000	36.62	16.89	53.51	74.00	-20.49	peak
4	13622.000	31.49	20.95	52.44	74.00	-21.56	peak
5	13952.000	31.15	21.76	52.91	74.00	-21.09	peak
6	17978.000	26.04	25.97	52.01	74.00	-21.99	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

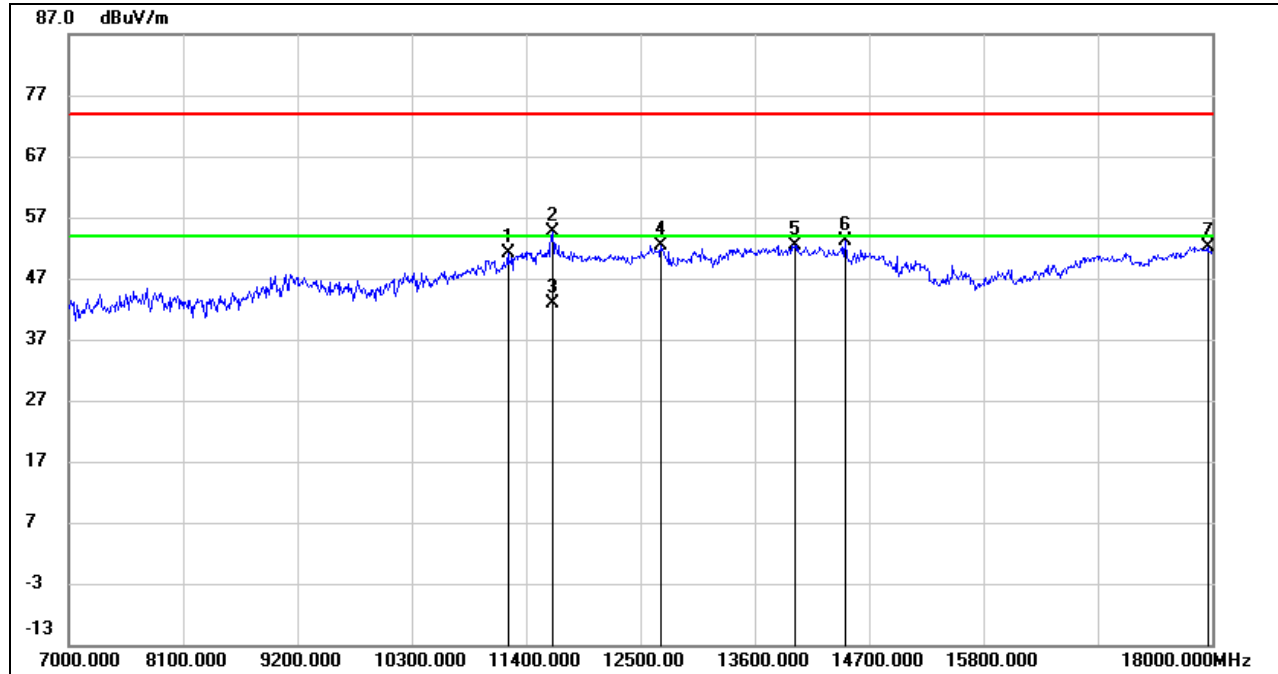
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9134.000	37.30	10.41	47.71	74.00	-26.29	peak
2	11642.000	37.47	17.03	54.50	74.00	-19.50	peak
3	11642.000	26.65	17.03	43.68	54.00	-10.32	AVG
4	12687.000	33.92	18.05	51.97	74.00	-22.03	peak
5	13413.000	32.27	20.26	52.53	74.00	-21.47	peak
6	14007.000	30.60	21.85	52.45	74.00	-21.55	peak
7	17857.000	27.28	25.14	52.42	74.00	-21.58	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



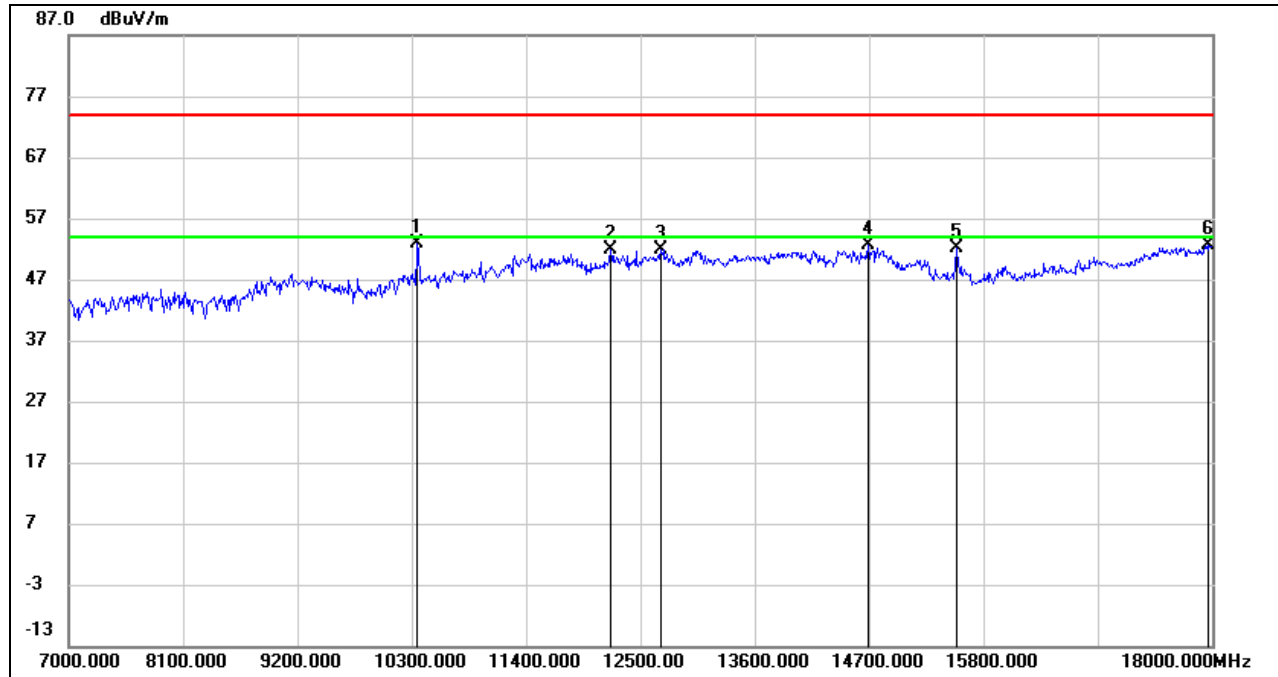
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11224.000	35.61	15.64	51.25	74.00	-22.75	peak
2	11653.000	37.48	17.05	54.53	74.00	-19.47	peak
3	11653.000	25.79	17.05	42.84	54.00	-11.16	AVG
4	12698.000	34.26	18.08	52.34	74.00	-21.66	peak
5	13985.000	30.63	21.85	52.48	74.00	-21.52	peak
6	14469.000	33.27	19.91	53.18	74.00	-20.82	peak
7	17956.000	26.42	25.82	52.24	74.00	-21.76	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

8.3.2. 802.11n HT20 MIMO MODE

UNII-1 BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

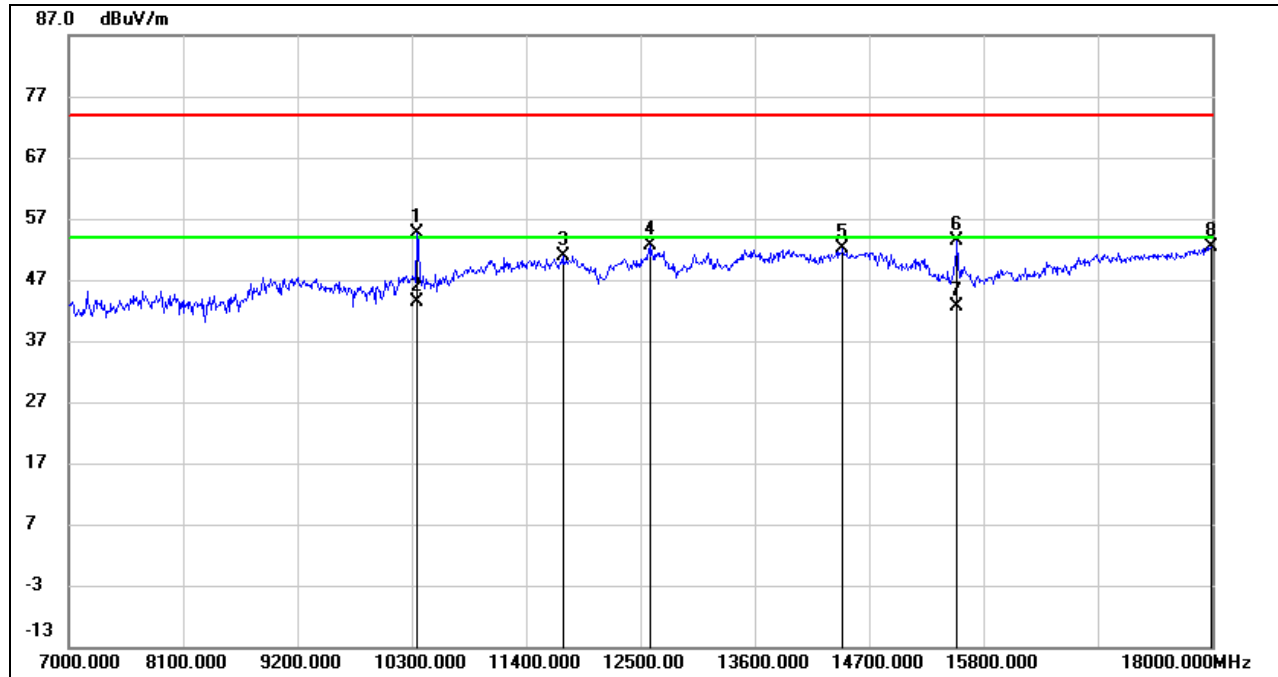


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	40.33	12.52	52.85	74.00	-21.15	peak
2	12214.000	34.02	17.76	51.78	74.00	-22.22	peak
3	12698.000	33.85	18.08	51.93	74.00	-22.07	peak
4	14689.000	33.65	18.99	52.64	74.00	-21.36	peak
5	15536.000	35.35	16.73	52.08	74.00	-21.92	peak
6	17956.000	26.77	25.82	52.59	74.00	-21.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



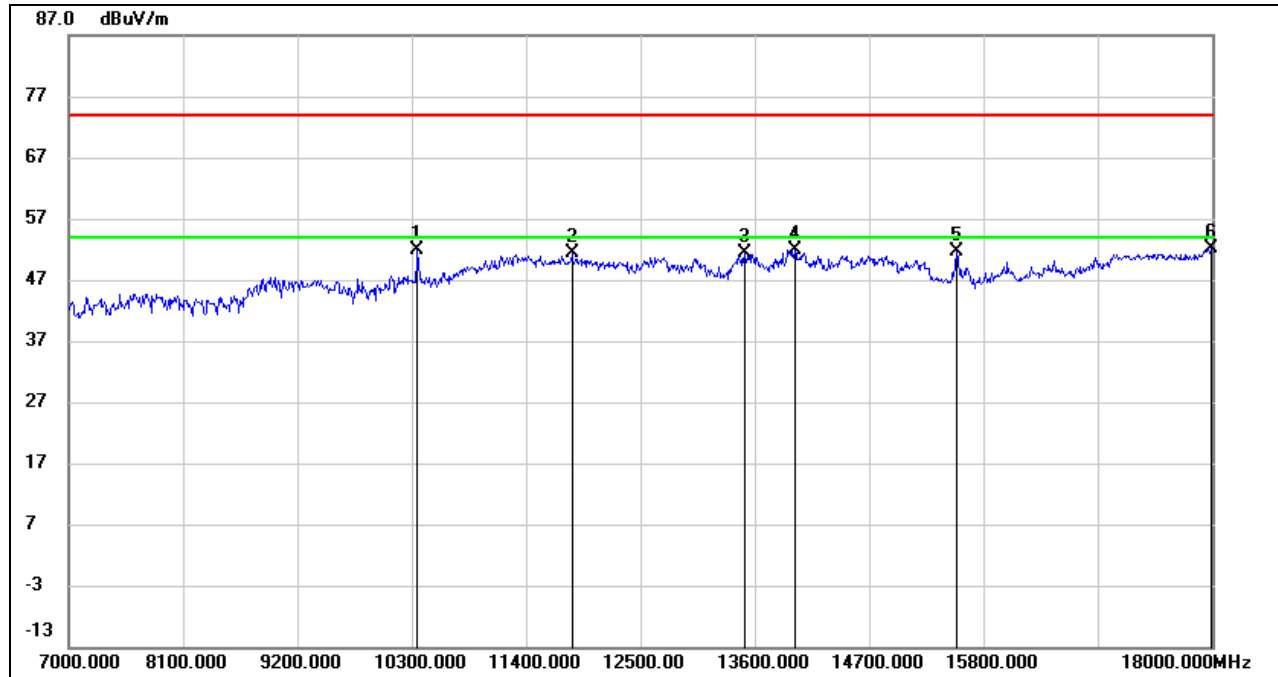
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	42.17	12.52	54.69	74.00	-19.31	peak
2	10355.000	30.77	12.52	43.29	54.00	-10.71	AVG
3	11752.000	33.66	17.24	50.90	74.00	-23.10	peak
4	12599.000	34.62	17.95	52.57	74.00	-21.43	peak
5	14447.000	32.17	20.00	52.17	74.00	-21.83	peak
6	15547.000	36.72	16.73	53.45	74.00	-20.55	peak
7	15547.000	25.93	16.73	42.66	54.00	-11.34	AVG
8	17989.000	26.45	26.04	52.49	74.00	-21.51	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

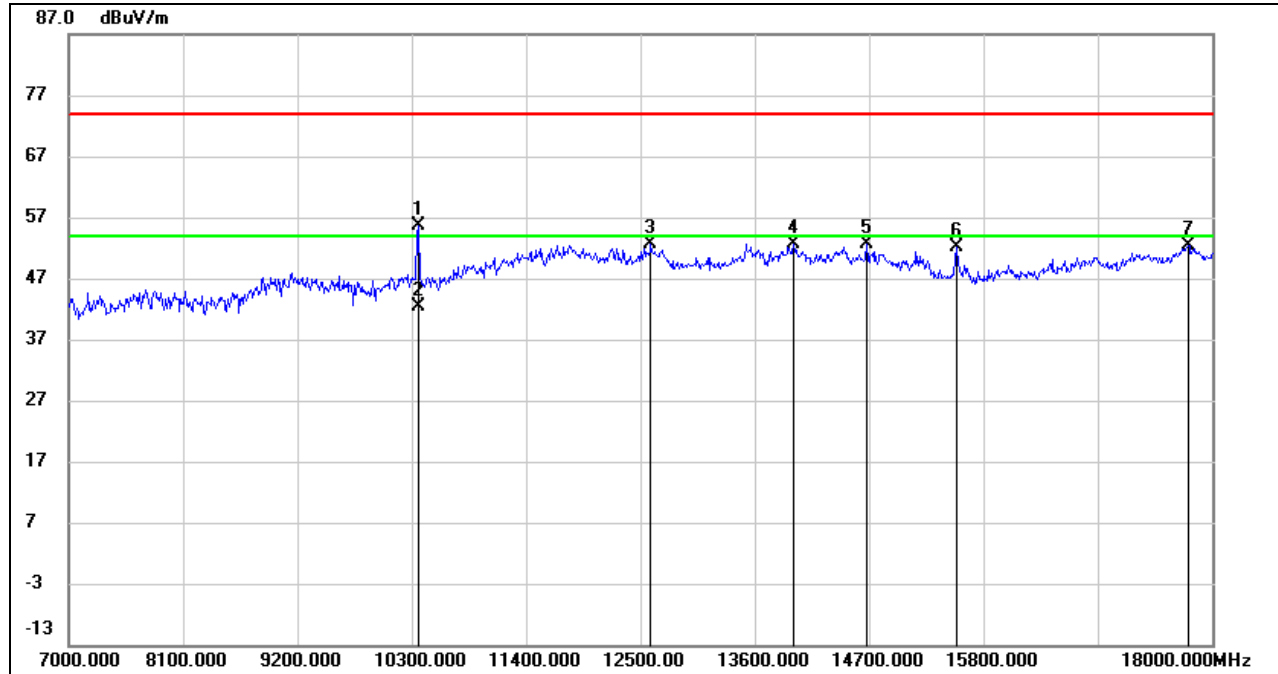
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	39.26	12.52	51.78	74.00	-22.22	peak
2	11840.000	33.98	17.40	51.38	74.00	-22.62	peak
3	13501.000	30.67	20.64	51.31	74.00	-22.69	peak
4	13985.000	30.09	21.85	51.94	74.00	-22.06	peak
5	15547.000	34.91	16.73	51.64	74.00	-22.36	peak
6	17989.000	26.17	26.04	52.21	74.00	-21.79	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

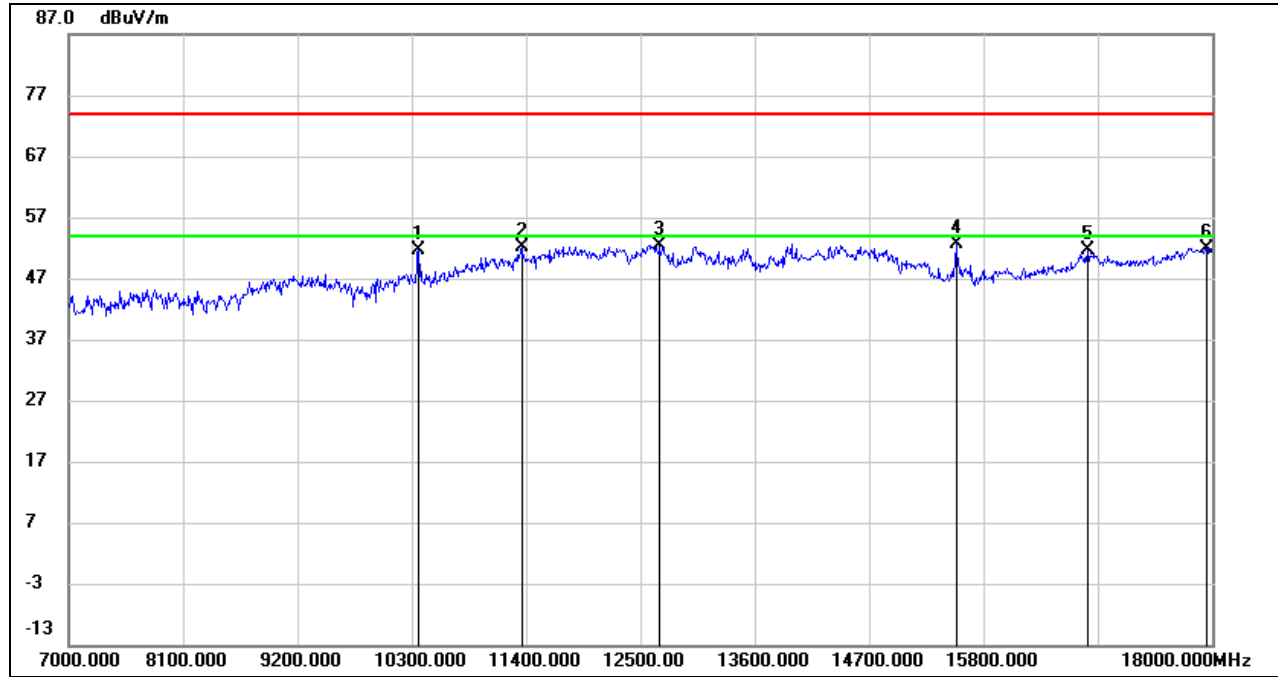
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10366.000	43.20	12.54	55.74	74.00	-18.26	peak
2	10366.000	29.76	12.54	42.30	54.00	-11.70	AVG
3	12599.000	34.60	17.95	52.55	74.00	-21.45	peak
4	13974.000	30.92	21.82	52.74	74.00	-21.26	peak
5	14678.000	33.64	19.03	52.67	74.00	-21.33	peak
6	15536.000	35.31	16.73	52.04	74.00	-21.96	peak
7	17769.000	27.91	24.53	52.44	74.00	-21.56	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

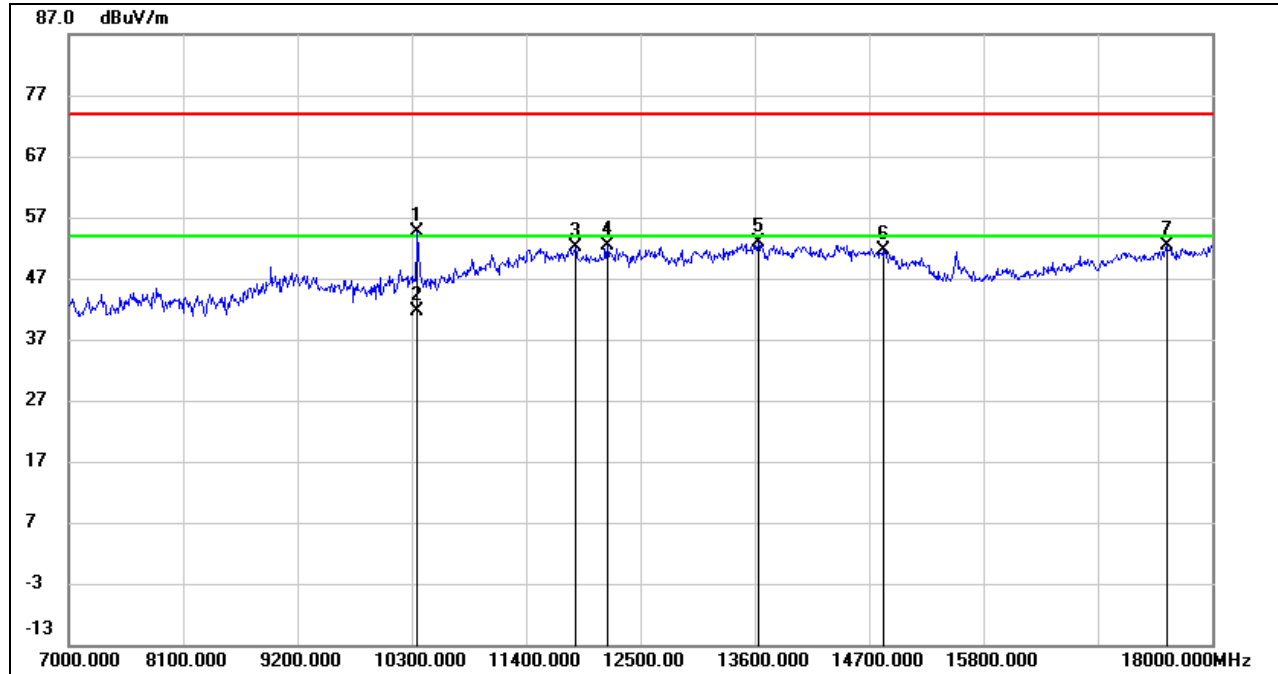
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10366.000	39.06	12.54	51.60	74.00	-22.40	peak
2	11356.000	36.05	16.19	52.24	74.00	-21.76	peak
3	12687.000	34.28	18.05	52.33	74.00	-21.67	peak
4	15536.000	35.91	16.73	52.64	74.00	-21.36	peak
5	16801.000	31.96	19.70	51.66	74.00	-22.34	peak
6	17945.000	26.20	25.75	51.95	74.00	-22.05	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



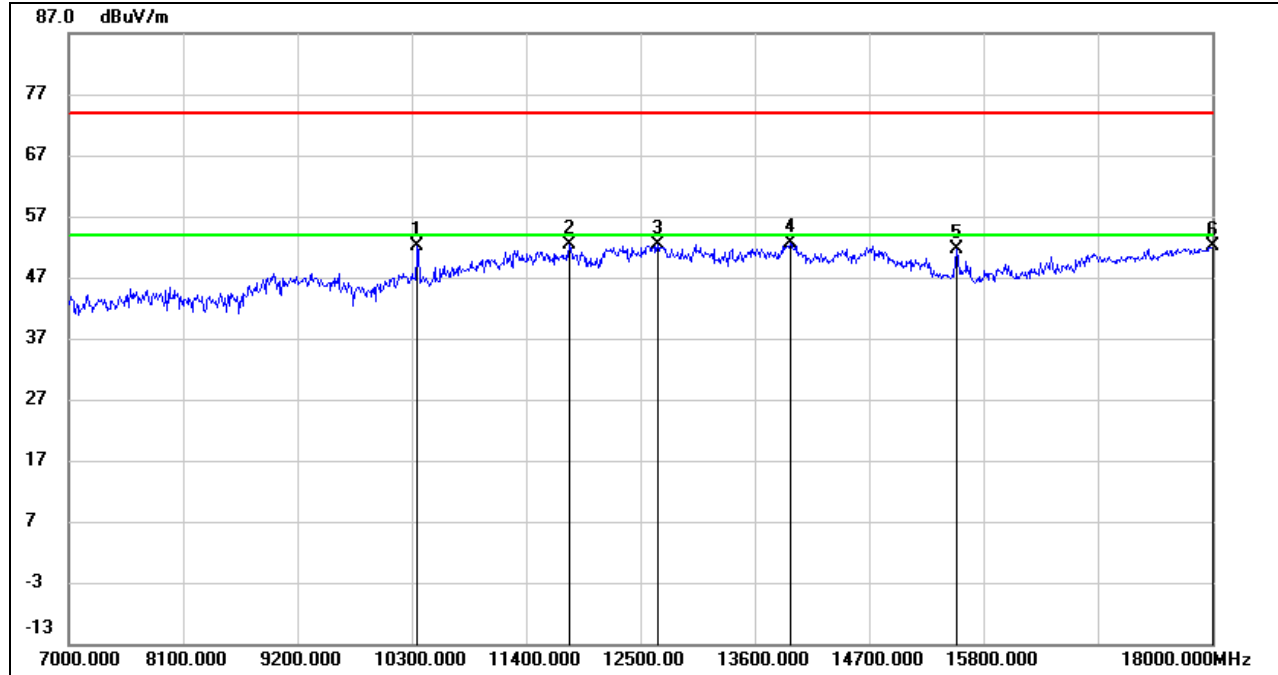
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	41.99	12.52	54.51	74.00	-19.49	peak
2	10355.000	29.16	12.52	41.68	54.00	-12.32	AVG
3	11873.000	34.70	17.46	52.16	74.00	-21.84	peak
4	12181.000	34.72	17.75	52.47	74.00	-21.53	peak
5	13633.000	31.84	20.97	52.81	74.00	-21.19	peak
6	14843.000	33.19	18.34	51.53	74.00	-22.47	peak
7	17560.000	29.25	23.11	52.36	74.00	-21.64	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



UNII-2A BAND

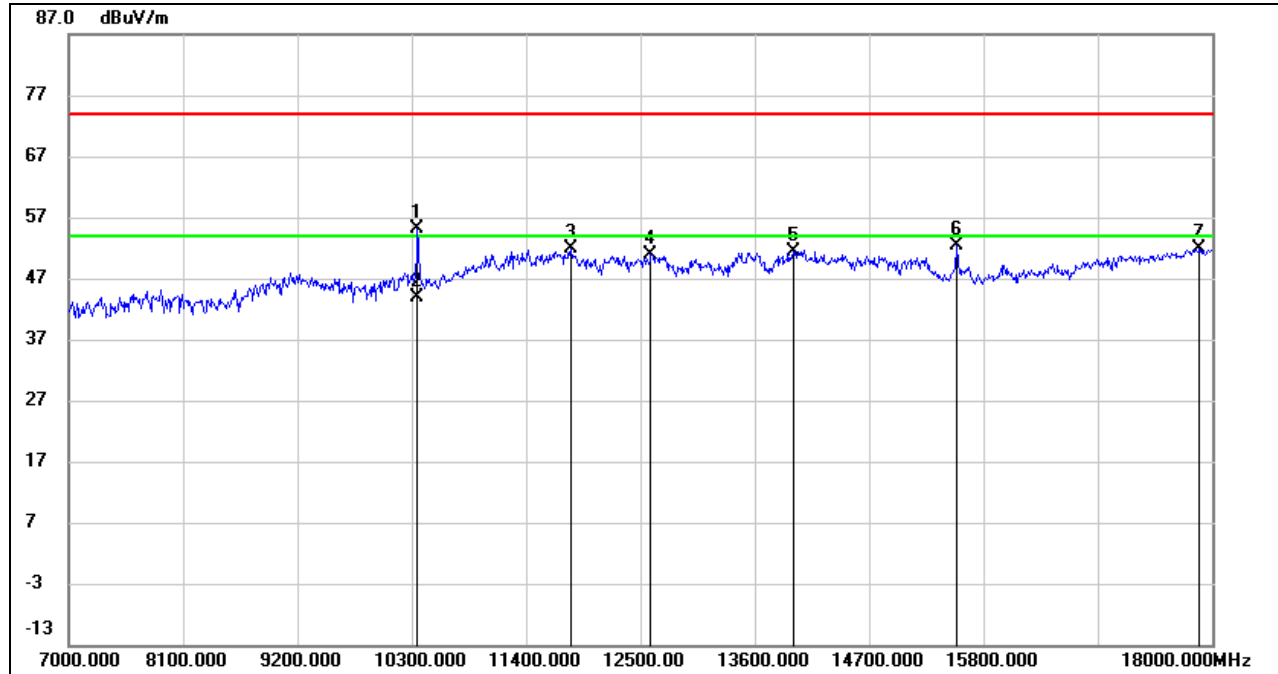
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	39.50	12.52	52.02	74.00	-21.98	peak
2	11818.000	35.04	17.36	52.40	74.00	-21.60	peak
3	12665.000	34.40	18.04	52.44	74.00	-21.56	peak
4	13941.000	30.83	21.73	52.56	74.00	-21.44	peak
5	15547.000	35.01	16.73	51.74	74.00	-22.26	peak
6	18000.000	26.09	26.12	52.21	74.00	-21.79	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

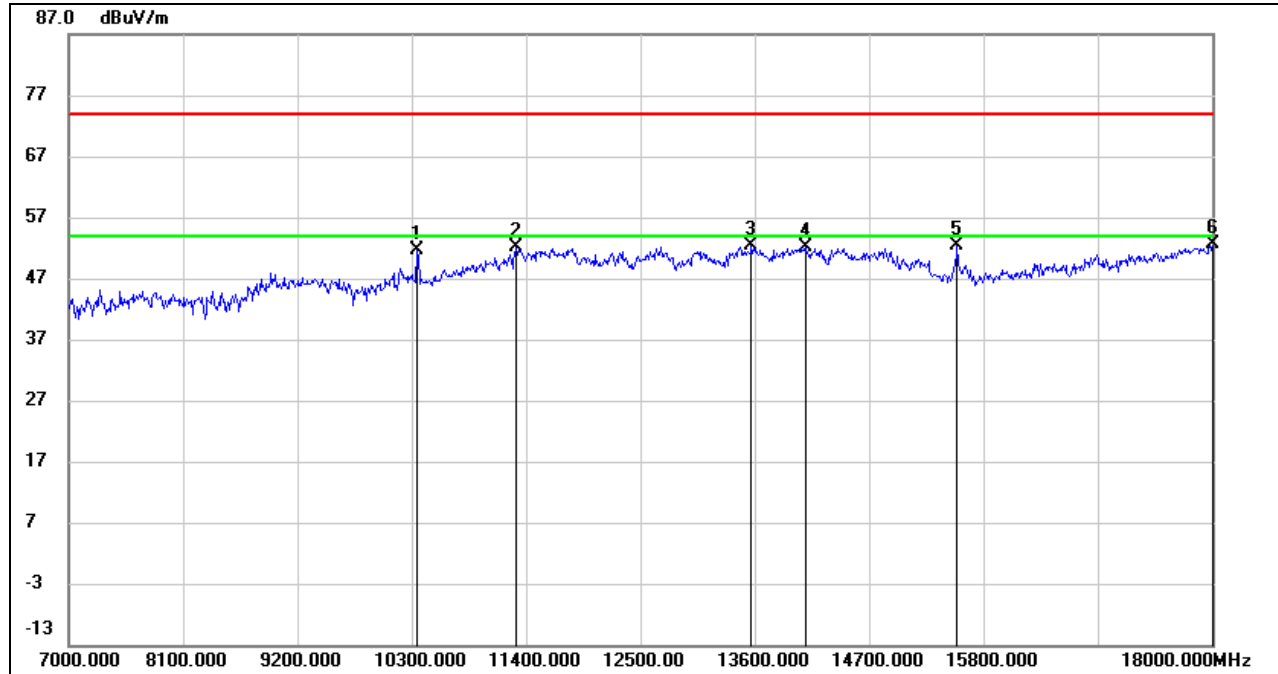


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	42.65	12.52	55.17	74.00	-18.83	peak
2	10355.000	31.24	12.52	43.76	54.00	-10.24	AVG
3	11829.000	34.41	17.38	51.79	74.00	-22.21	peak
4	12599.000	33.04	17.95	50.99	74.00	-23.01	peak
5	13974.000	29.52	21.82	51.34	74.00	-22.66	peak
6	15547.000	35.75	16.73	52.48	74.00	-21.52	peak
7	17879.000	26.65	25.29	51.94	74.00	-22.06	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



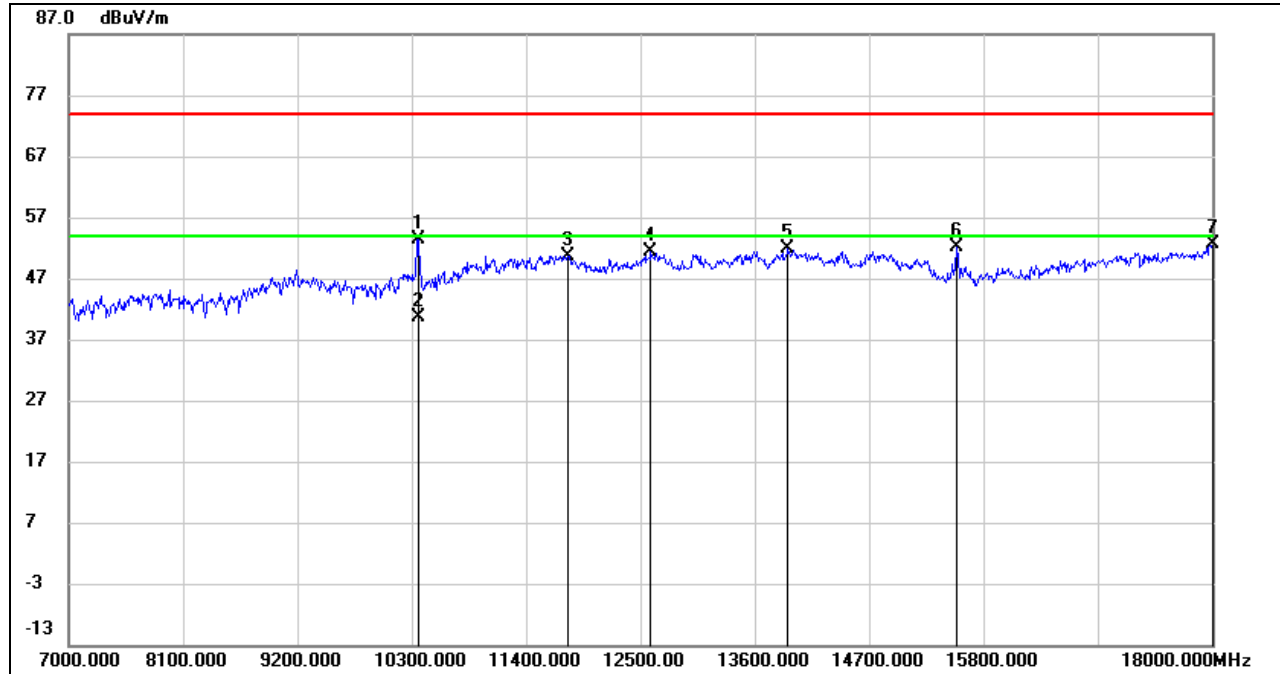
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10344.000	39.18	12.49	51.67	74.00	-22.33	peak
2	11301.000	36.11	15.95	52.06	74.00	-21.94	peak
3	13567.000	31.64	20.80	52.44	74.00	-21.56	peak
4	14084.000	30.54	21.52	52.06	74.00	-21.94	peak
5	15547.000	35.66	16.73	52.39	74.00	-21.61	peak
6	18000.000	26.43	26.12	52.55	74.00	-21.45	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

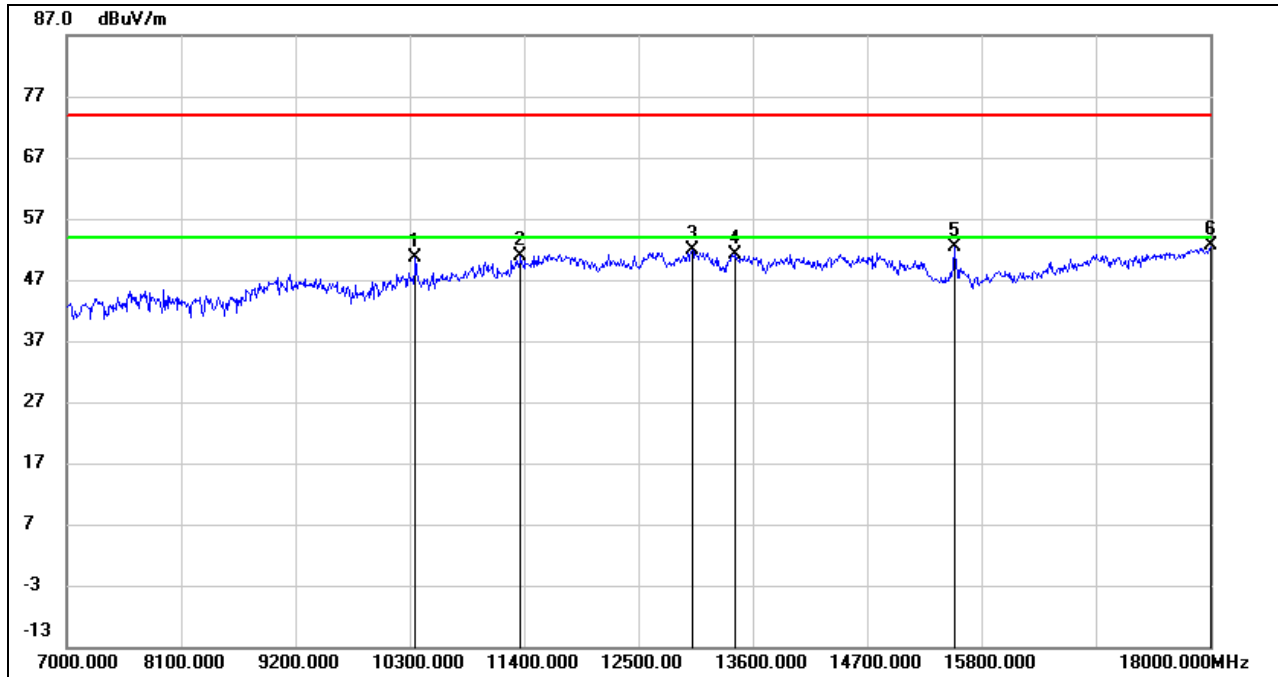


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10366.000	40.92	12.54	53.46	74.00	-20.54	peak
2	10366.000	28.01	12.54	40.55	54.00	-13.45	AVG
3	11796.000	33.37	17.32	50.69	74.00	-23.31	peak
4	12599.000	33.34	17.95	51.29	74.00	-22.71	peak
5	13919.000	30.31	21.68	51.99	74.00	-22.01	peak
6	15547.000	35.38	16.73	52.11	74.00	-21.89	peak
7	18000.000	26.61	26.12	52.73	74.00	-21.27	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

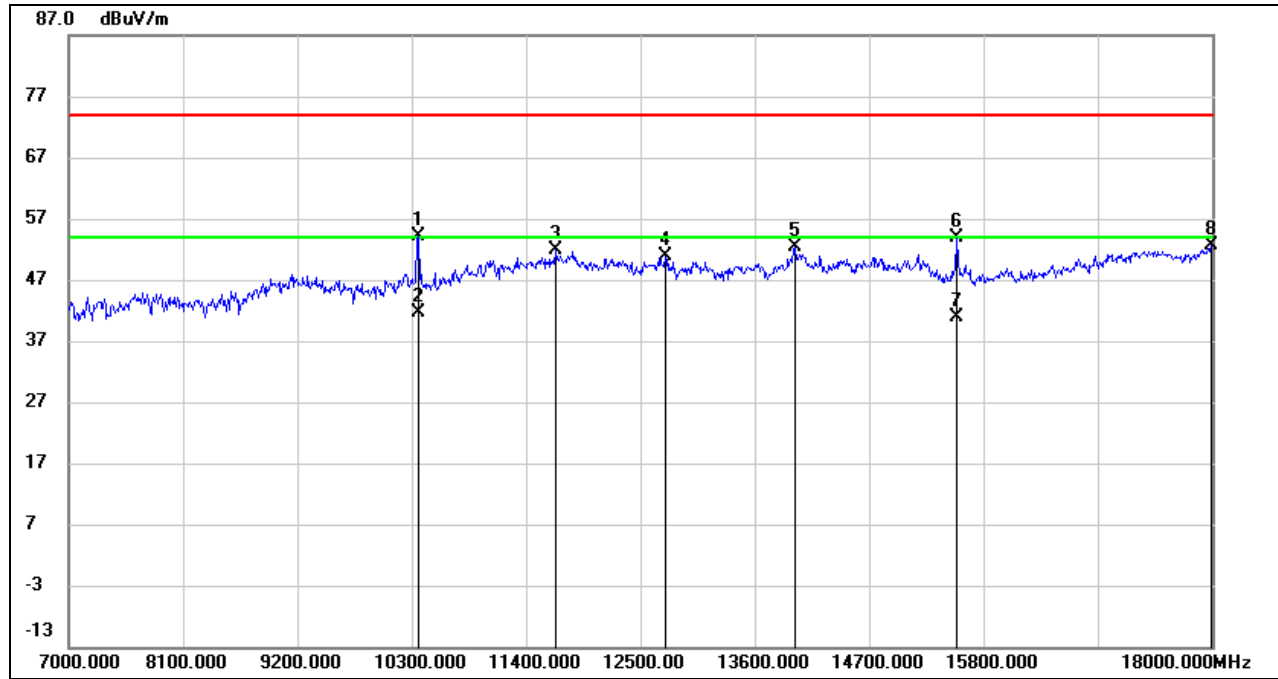


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	38.03	12.52	50.55	74.00	-23.45	peak
2	11367.000	34.64	16.22	50.86	74.00	-23.14	peak
3	13017.000	33.26	18.53	51.79	74.00	-22.21	peak
4	13435.000	30.84	20.35	51.19	74.00	-22.81	peak
5	15536.000	35.73	16.73	52.46	74.00	-21.54	peak
6	18000.000	26.55	26.12	52.67	74.00	-21.33	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

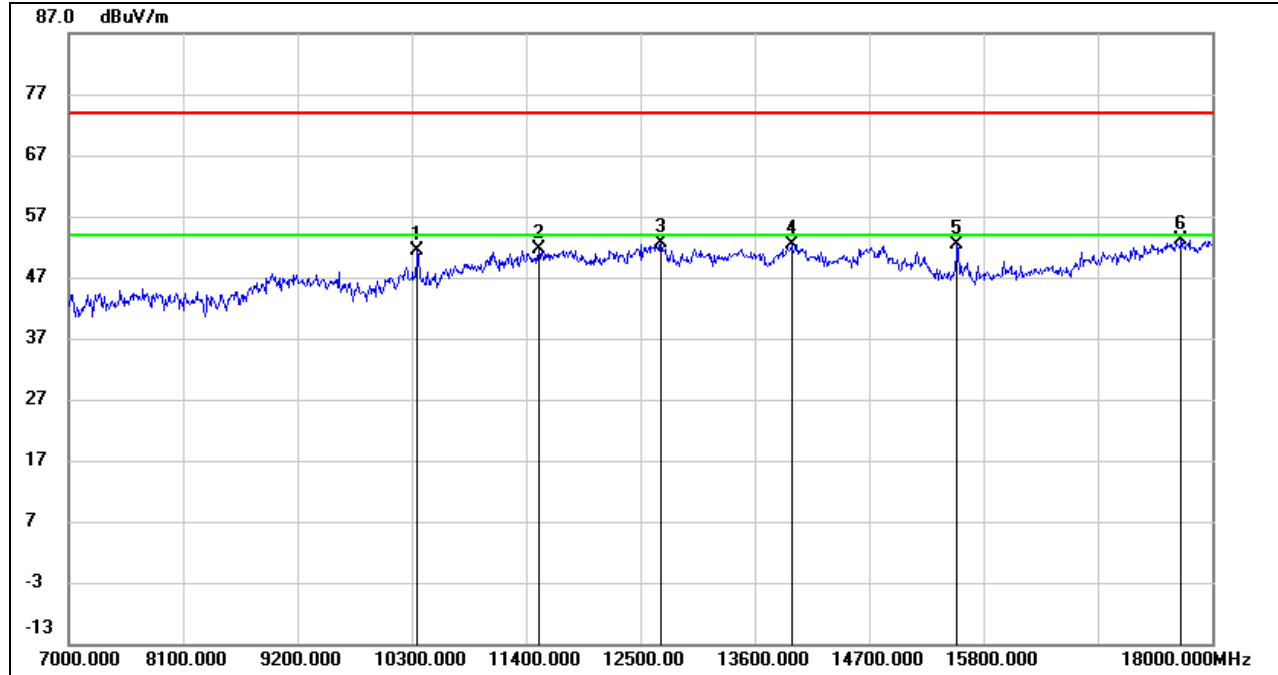


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10366.000	41.63	12.54	54.17	74.00	-19.83	peak
2	10366.000	29.06	12.54	41.60	54.00	-12.40	AVG
3	11686.000	34.64	17.12	51.76	74.00	-22.24	peak
4	12742.000	32.79	18.13	50.92	74.00	-23.08	peak
5	13985.000	30.49	21.85	52.34	74.00	-21.66	peak
6	15547.000	37.07	16.73	53.80	74.00	-20.20	peak
7	15547.000	24.16	16.73	40.89	54.00	-13.11	AVG
8	17989.000	26.55	26.04	52.59	74.00	-21.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2C BAND

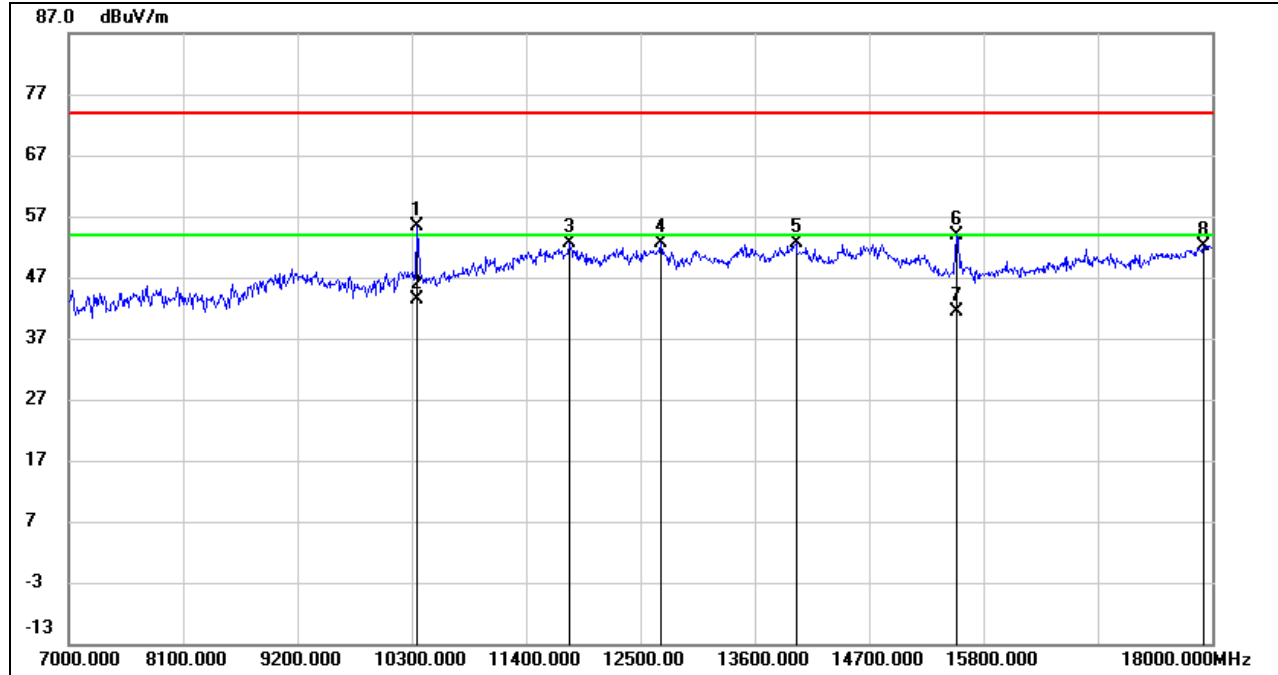
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	38.77	12.52	51.29	74.00	-22.71	peak
2	11521.000	34.69	16.82	51.51	74.00	-22.49	peak
3	12698.000	34.48	18.08	52.56	74.00	-21.44	peak
4	13952.000	30.70	21.76	52.46	74.00	-21.54	peak
5	15547.000	35.63	16.73	52.36	74.00	-21.64	peak
6	17703.000	28.97	24.09	53.06	74.00	-20.94	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

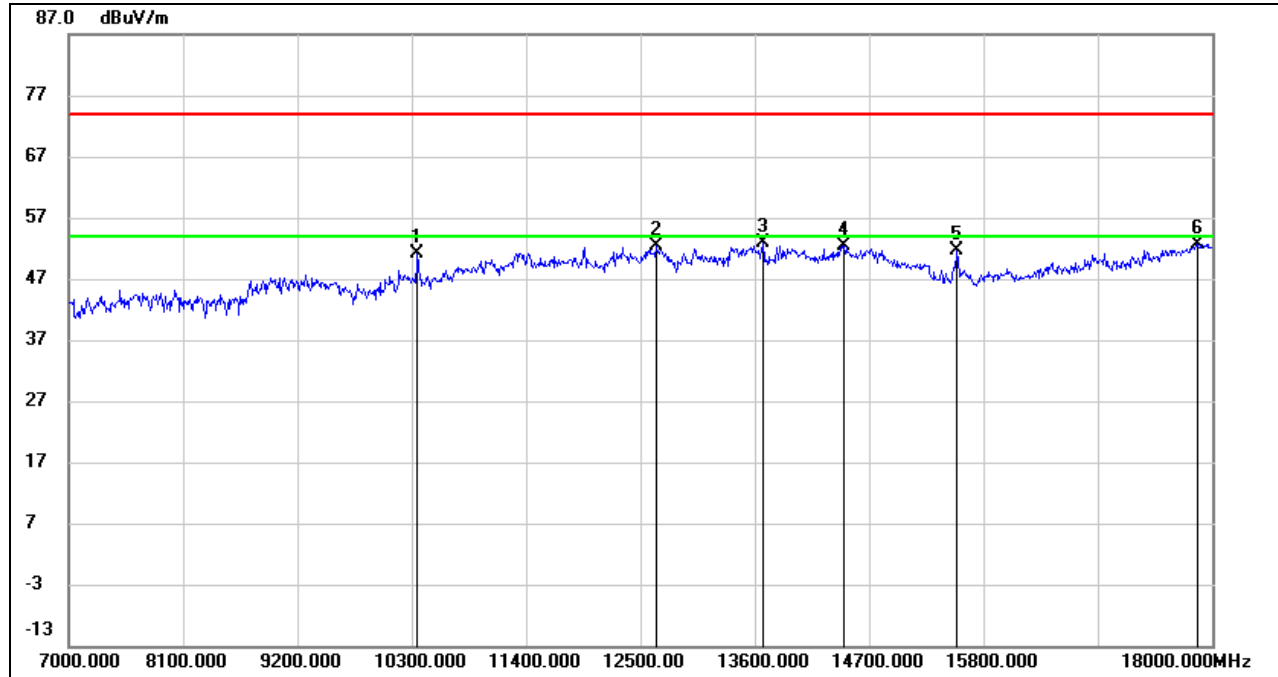


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10344.000	42.90	12.49	55.39	74.00	-18.61	peak
2	10344.000	30.88	12.49	43.37	54.00	-10.63	AVG
3	11818.000	35.37	17.36	52.73	74.00	-21.27	peak
4	12698.000	34.56	18.08	52.64	74.00	-21.36	peak
5	13996.000	30.65	21.87	52.52	74.00	-21.48	peak
6	15536.000	37.27	16.73	54.00	74.00	-20.00	peak
7	15536.000	24.54	16.73	41.27	54.00	-12.73	AVG
8	17912.000	26.65	25.52	52.17	74.00	-21.83	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



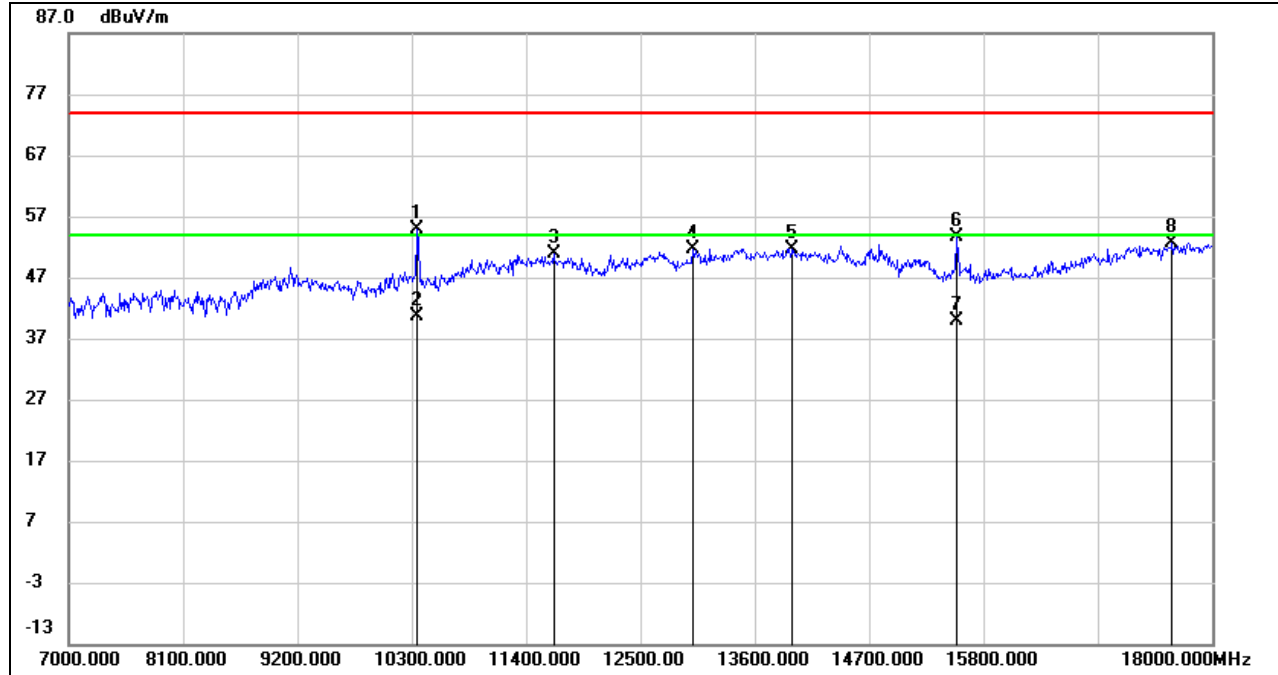
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	38.63	12.52	51.15	74.00	-22.85	peak
2	12654.000	34.25	18.01	52.26	74.00	-21.74	peak
3	13677.000	31.82	21.08	52.90	74.00	-21.10	peak
4	14458.000	32.52	19.95	52.47	74.00	-21.53	peak
5	15547.000	34.78	16.73	51.51	74.00	-22.49	peak
6	17857.000	27.61	25.14	52.75	74.00	-21.25	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

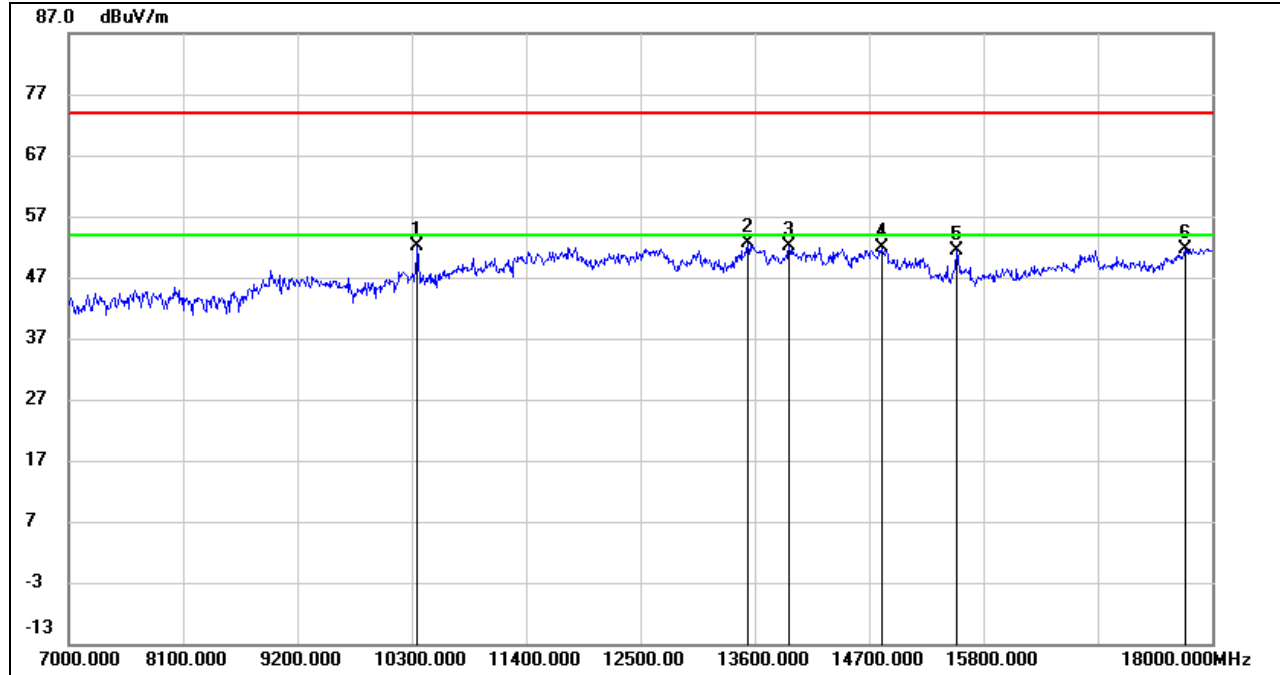


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	42.28	12.52	54.80	74.00	-19.20	peak
2	10355.000	28.09	12.52	40.61	54.00	-13.39	AVG
3	11664.000	33.77	17.08	50.85	74.00	-23.15	peak
4	13006.000	33.06	18.47	51.53	74.00	-22.47	peak
5	13952.000	29.94	21.76	51.70	74.00	-22.30	peak
6	15536.000	36.94	16.73	53.67	74.00	-20.33	peak
7	15536.000	23.15	16.73	39.88	54.00	-14.12	AVG
8	17615.000	29.24	23.49	52.73	74.00	-21.27	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

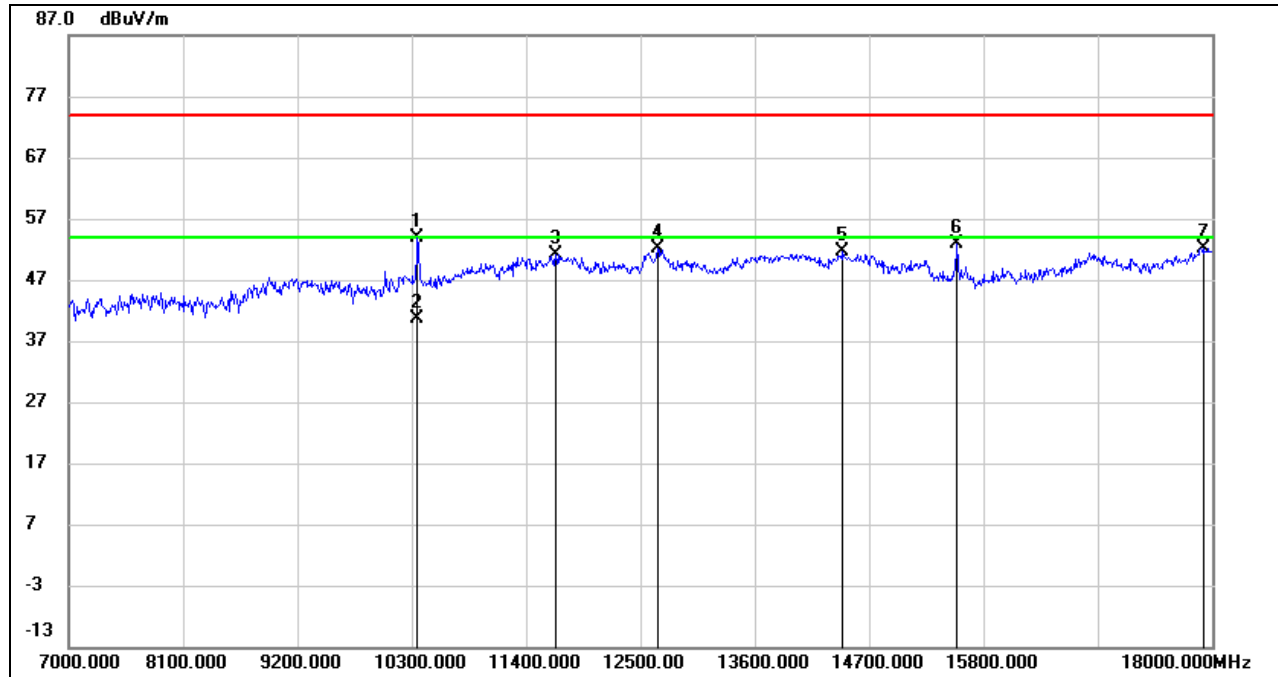


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	39.49	12.52	52.01	74.00	-21.99	peak
2	13534.000	31.78	20.73	52.51	74.00	-21.49	peak
3	13930.000	30.34	21.71	52.05	74.00	-21.95	peak
4	14821.000	33.57	18.42	51.99	74.00	-22.01	peak
5	15536.000	34.67	16.73	51.40	74.00	-22.60	peak
6	17736.000	27.41	24.32	51.73	74.00	-22.27	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



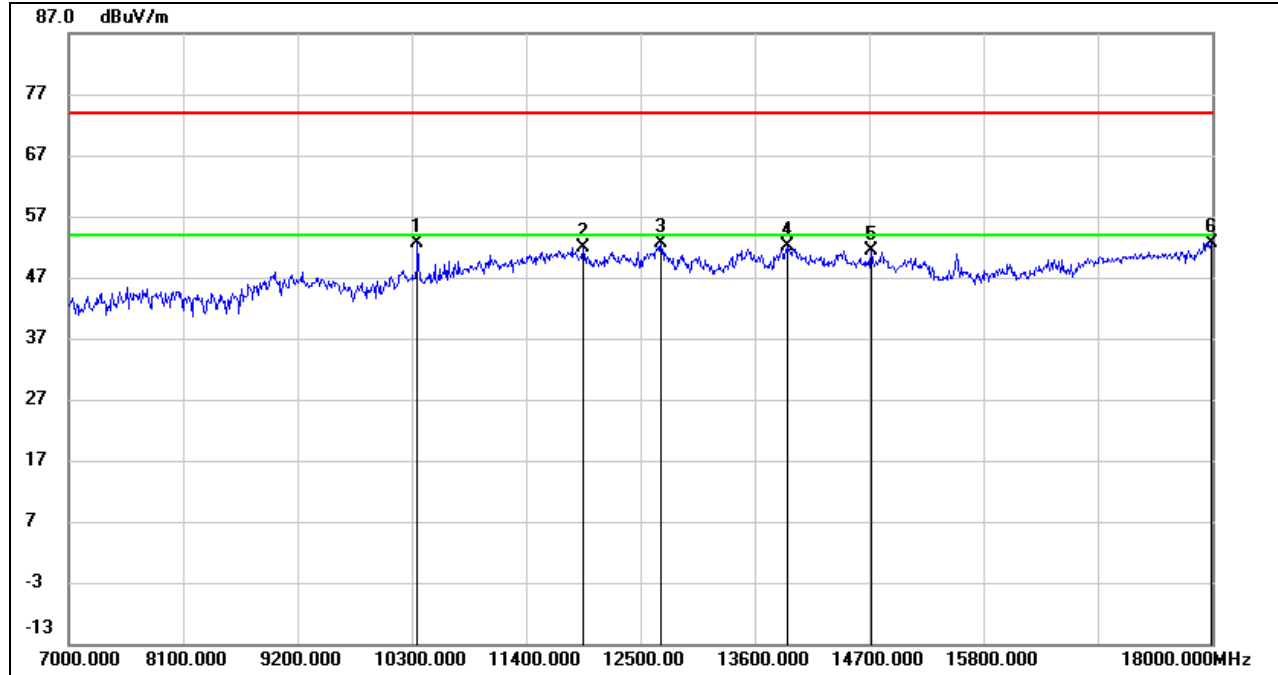
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	41.38	12.52	53.90	74.00	-20.10	peak
2	10355.000	28.17	12.52	40.69	54.00	-13.31	AVG
3	11686.000	33.99	17.12	51.11	74.00	-22.89	peak
4	12665.000	34.03	18.04	52.07	74.00	-21.93	peak
5	14447.000	31.52	20.00	51.52	74.00	-22.48	peak
6	15547.000	36.19	16.73	52.92	74.00	-21.08	peak
7	17923.000	26.63	25.60	52.23	74.00	-21.77	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



STRADDLE CHANNEL 144

HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)

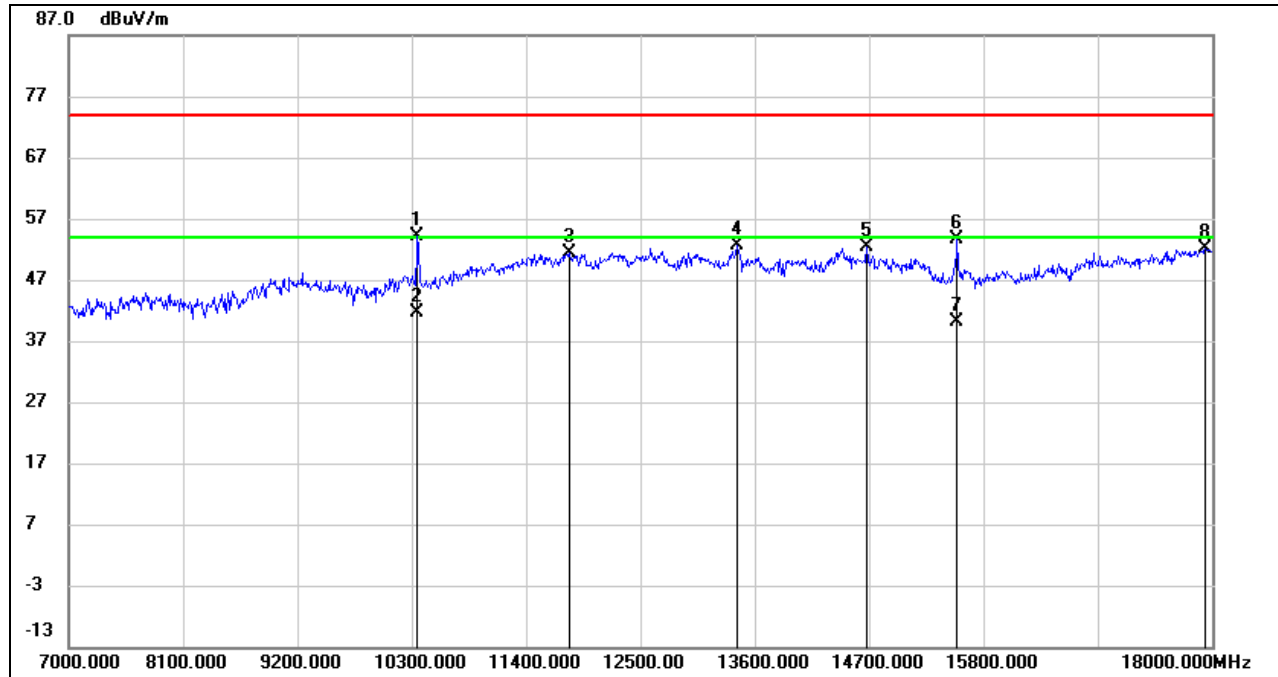


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	39.99	12.52	52.51	74.00	-21.49	peak
2	11950.000	34.35	17.61	51.96	74.00	-22.04	peak
3	12698.000	34.57	18.08	52.65	74.00	-21.35	peak
4	13919.000	30.47	21.68	52.15	74.00	-21.85	peak
5	14722.000	32.57	18.84	51.41	74.00	-22.59	peak
6	17989.000	26.66	26.04	52.70	74.00	-21.30	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



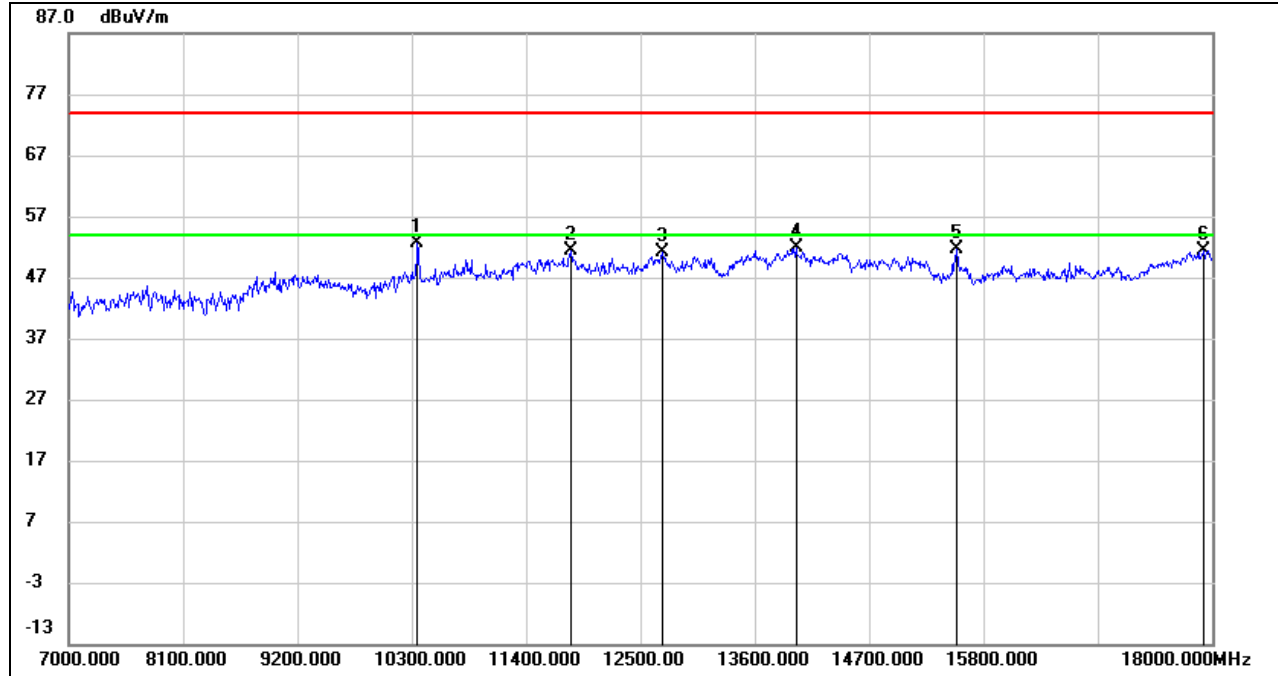
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	41.70	12.52	54.22	74.00	-19.78	peak
2	10355.000	29.23	12.52	41.75	54.00	-12.25	AVG
3	11818.000	34.01	17.36	51.37	74.00	-22.63	peak
4	13424.000	32.38	20.30	52.68	74.00	-21.32	peak
5	14678.000	33.30	19.03	52.33	74.00	-21.67	peak
6	15547.000	36.92	16.73	53.65	74.00	-20.35	peak
7	15547.000	23.39	16.73	40.12	54.00	-13.88	AVG
8	17934.000	26.46	25.67	52.13	74.00	-21.87	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



UNII-3 BAND

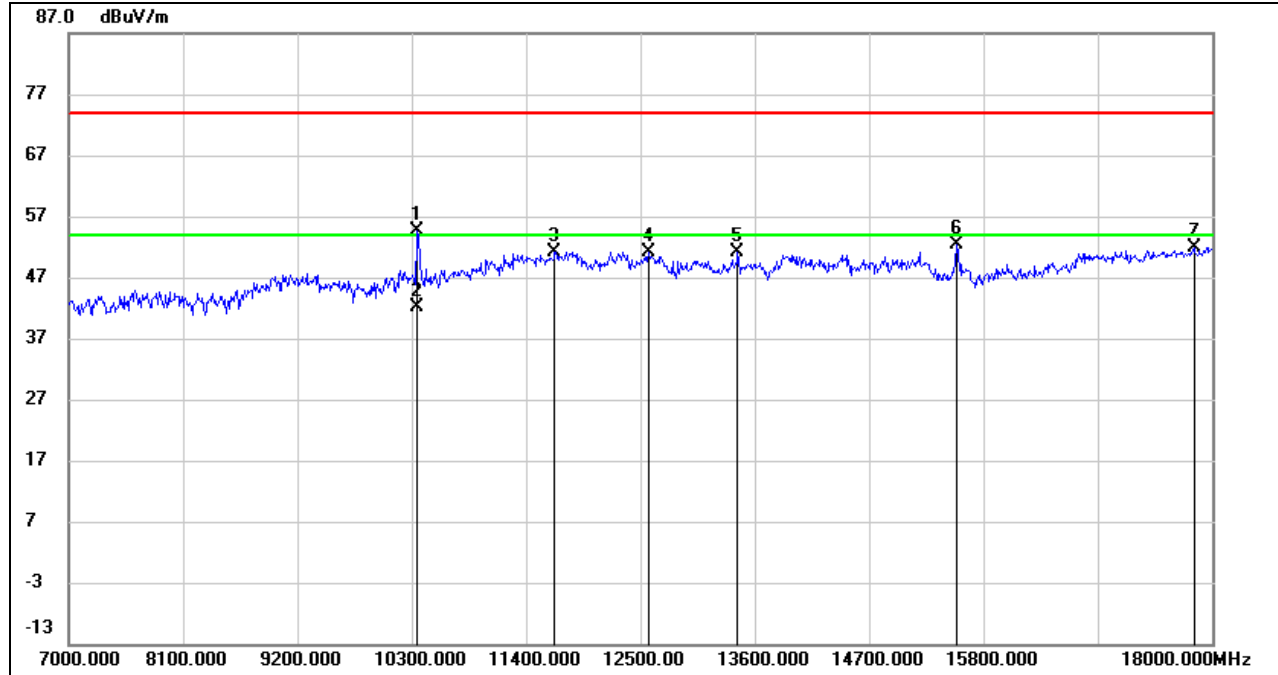
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	39.99	12.52	52.51	74.00	-21.49	peak
2	11829.000	33.96	17.38	51.34	74.00	-22.66	peak
3	12709.000	32.92	18.09	51.01	74.00	-22.99	peak
4	13996.000	29.89	21.87	51.76	74.00	-22.24	peak
5	15547.000	35.01	16.73	51.74	74.00	-22.26	peak
6	17923.000	25.70	25.60	51.30	74.00	-22.70	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

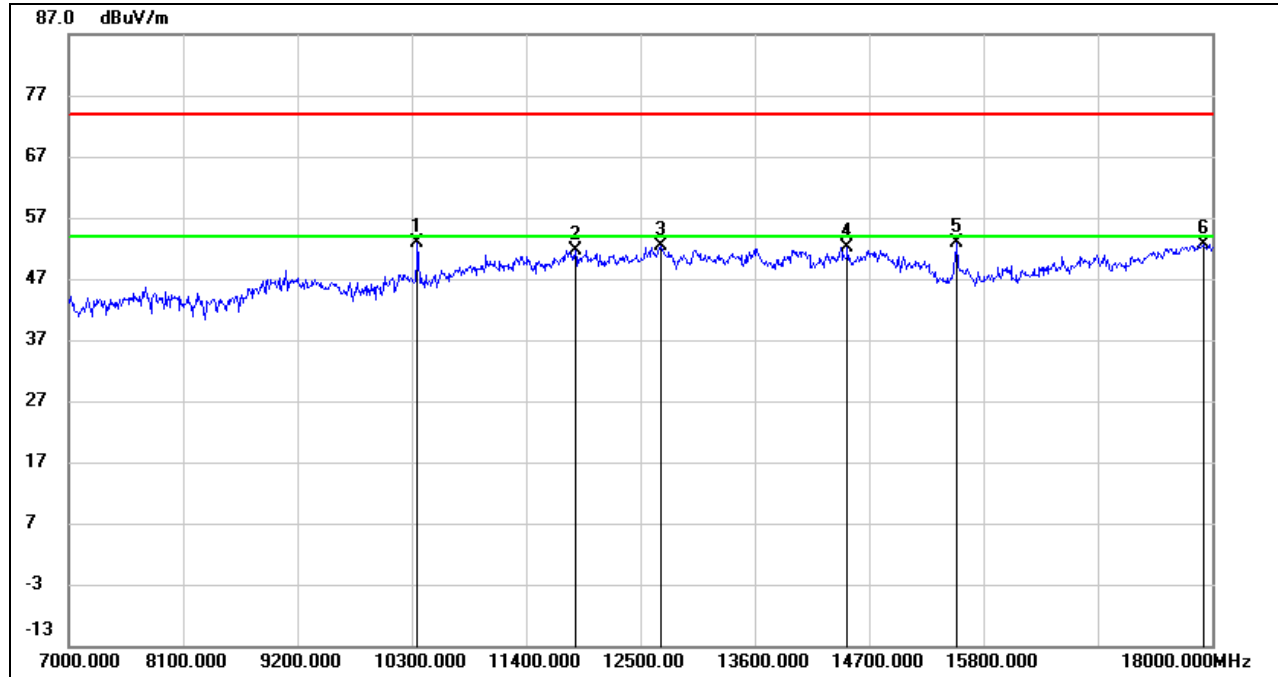


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	42.08	12.52	54.60	74.00	-19.40	peak
2	10355.000	29.63	12.52	42.15	54.00	-11.85	AVG
3	11675.000	34.04	17.10	51.14	74.00	-22.86	peak
4	12577.000	33.26	17.93	51.19	74.00	-22.81	peak
5	13435.000	30.73	20.35	51.08	74.00	-22.92	peak
6	15547.000	35.63	16.73	52.36	74.00	-21.64	peak
7	17824.000	27.08	24.91	51.99	74.00	-22.01	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



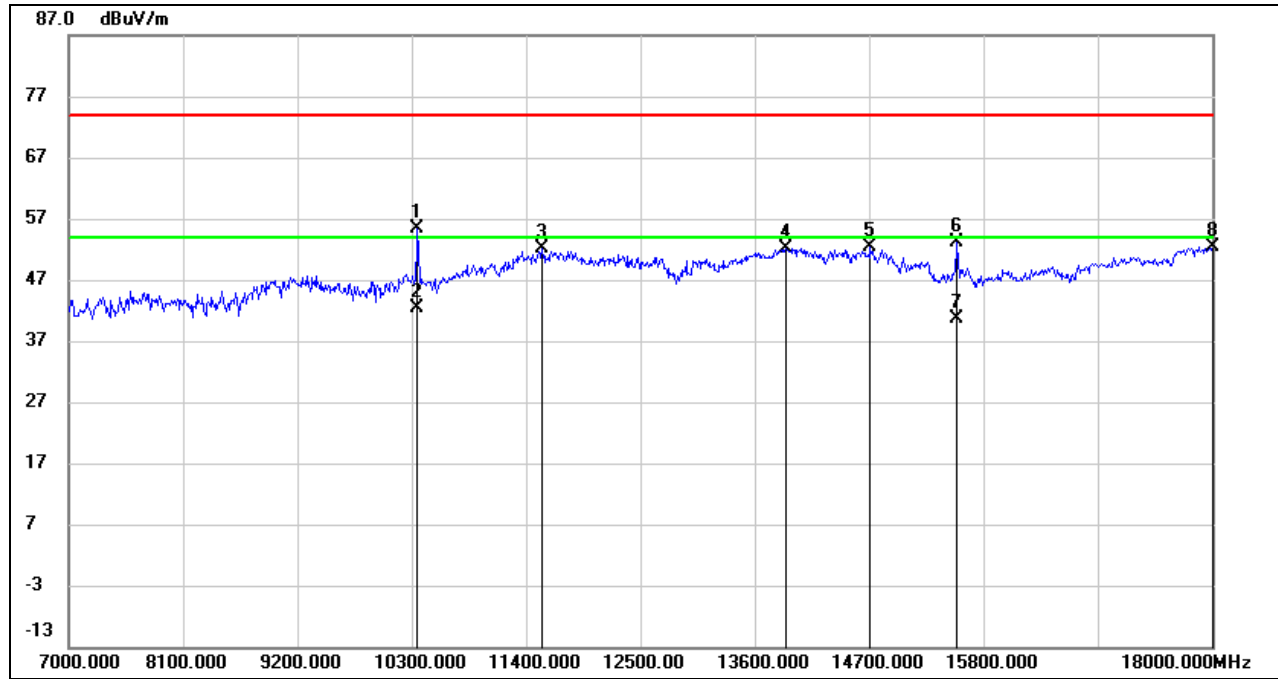
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	40.29	12.52	52.81	74.00	-21.19	peak
2	11873.000	34.20	17.46	51.66	74.00	-22.34	peak
3	12698.000	34.33	18.08	52.41	74.00	-21.59	peak
4	14491.000	32.24	19.81	52.05	74.00	-21.95	peak
5	15547.000	36.03	16.73	52.76	74.00	-21.24	peak
6	17923.000	27.03	25.60	52.63	74.00	-21.37	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

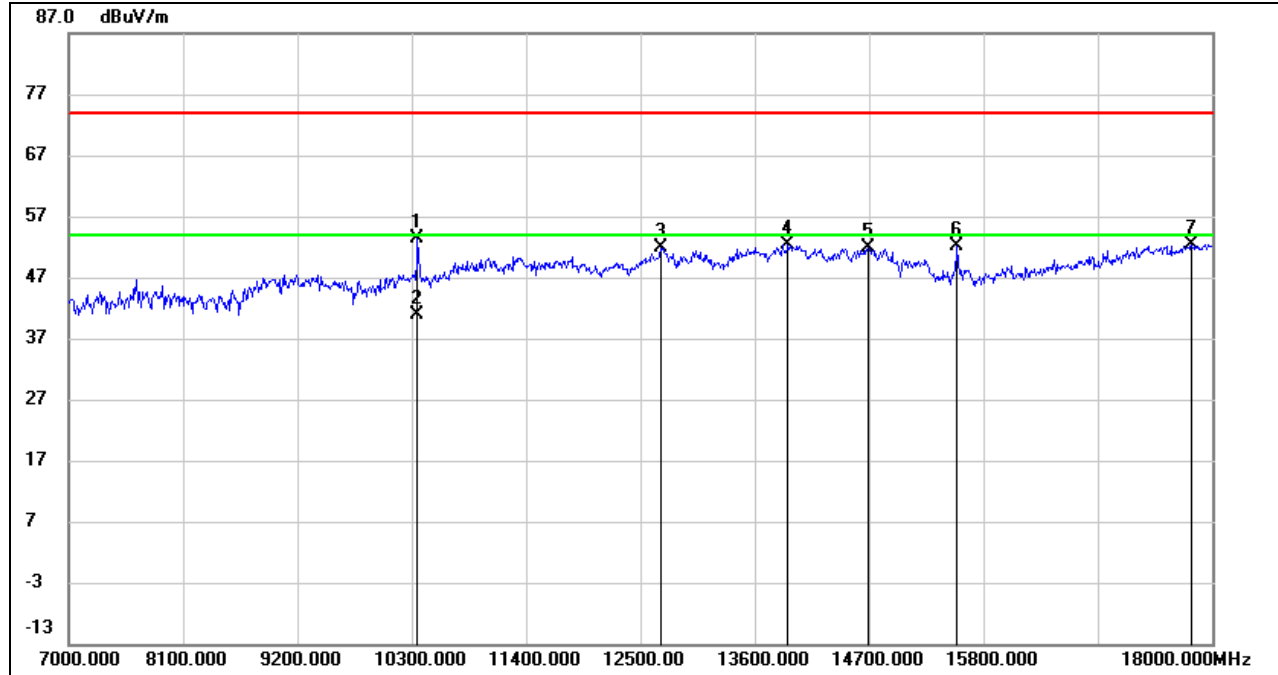


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	42.76	12.52	55.28	74.00	-18.72	peak
2	10355.000	29.95	12.52	42.47	54.00	-11.53	AVG
3	11554.000	35.34	16.87	52.21	74.00	-21.79	peak
4	13897.000	30.61	21.62	52.23	74.00	-21.77	peak
5	14711.000	33.48	18.88	52.36	74.00	-21.64	peak
6	15547.000	36.28	16.73	53.01	74.00	-20.99	peak
7	15547.000	23.93	16.73	40.66	54.00	-13.34	AVG
8	18000.000	26.23	26.12	52.35	74.00	-21.65	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

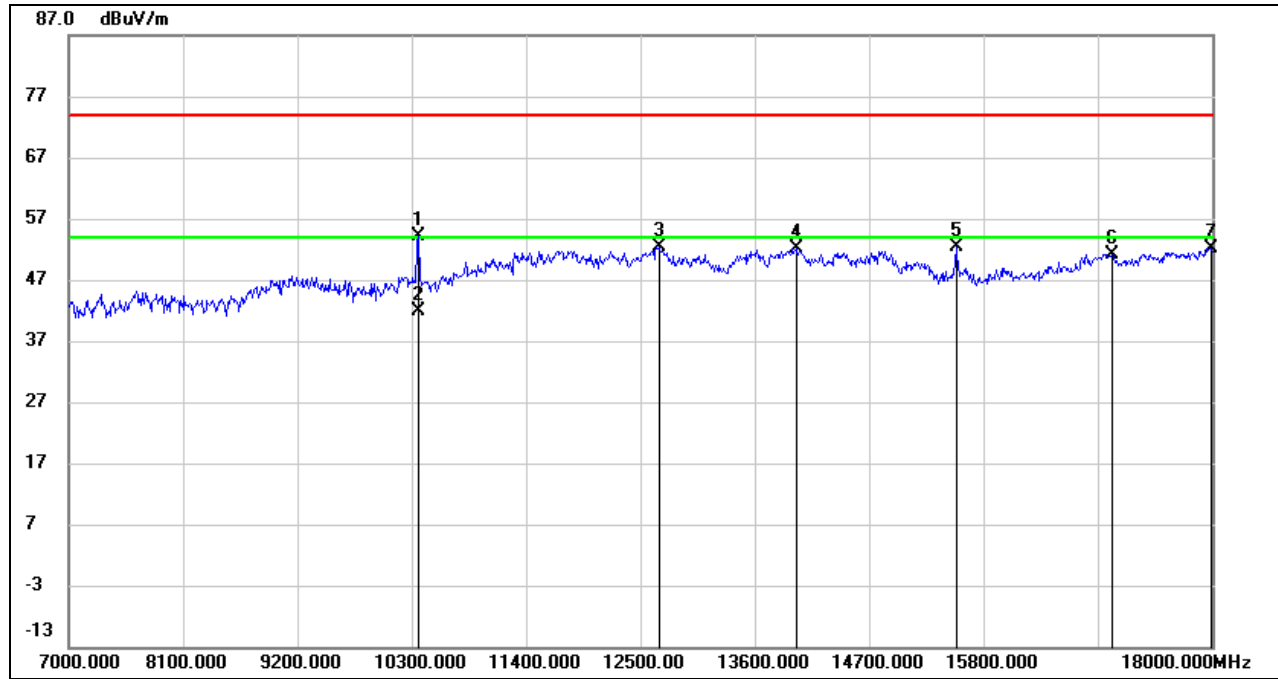


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	40.74	12.52	53.26	74.00	-20.74	peak
2	10355.000	28.26	12.52	40.78	54.00	-13.22	AVG
3	12698.000	33.82	18.08	51.90	74.00	-22.10	peak
4	13919.000	30.65	21.68	52.33	74.00	-21.67	peak
5	14689.000	32.79	18.99	51.78	74.00	-22.22	peak
6	15547.000	35.39	16.73	52.12	74.00	-21.88	peak
7	17802.000	27.70	24.76	52.46	74.00	-21.54	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



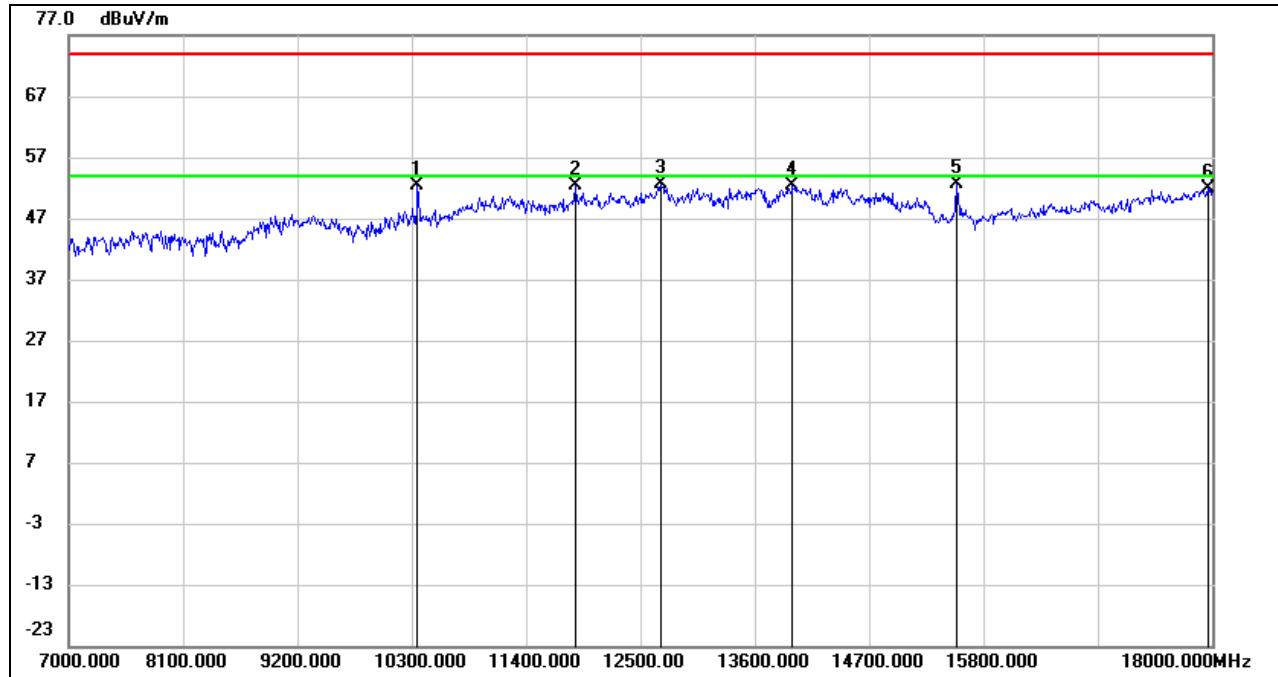
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10366.000	41.50	12.54	54.04	74.00	-19.96	peak
2	10366.000	29.28	12.54	41.82	54.00	-12.18	AVG
3	12676.000	34.39	18.05	52.44	74.00	-21.56	peak
4	13996.000	30.33	21.87	52.20	74.00	-21.80	peak
5	15536.000	35.62	16.73	52.35	74.00	-21.65	peak
6	17043.000	30.45	20.79	51.24	74.00	-22.76	peak
7	17989.000	26.11	26.04	52.15	74.00	-21.85	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

8.3.3. 802.11n HT40 MIMO MODE

UNII-1 BAND

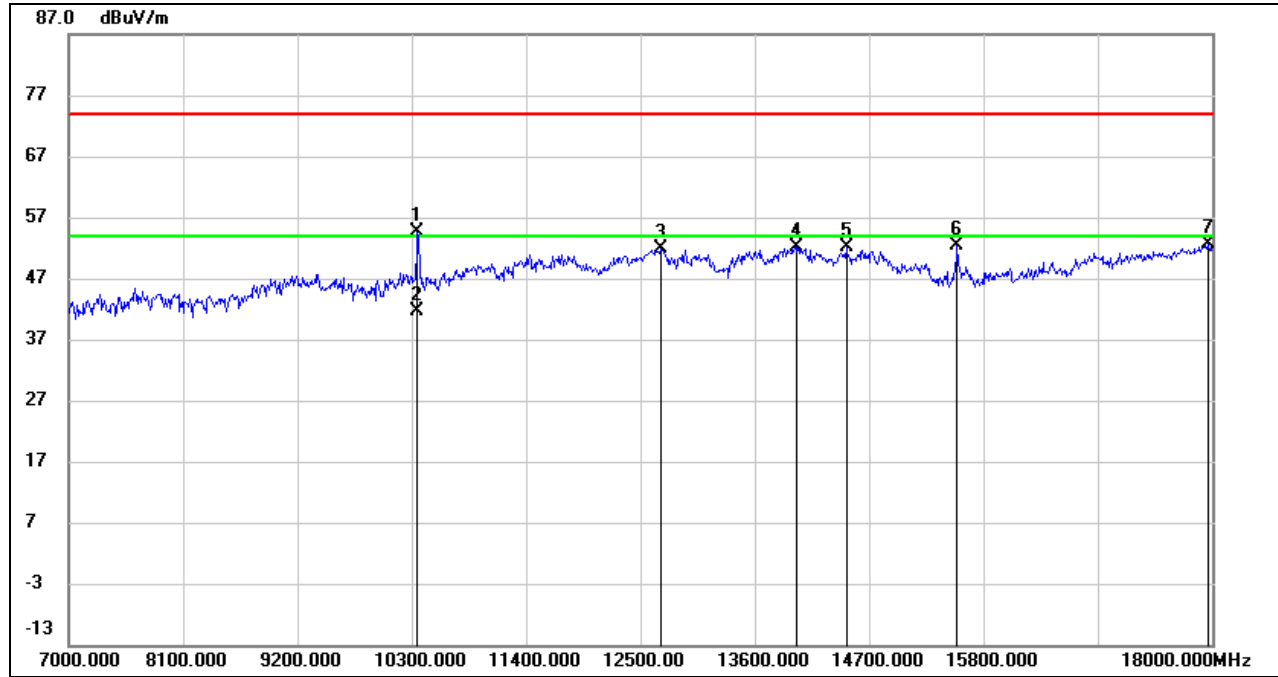
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	39.82	12.52	52.34	74.00	-21.66	peak
2	11873.000	34.99	17.46	52.45	74.00	-21.55	peak
3	12698.000	34.52	18.08	52.60	74.00	-21.40	peak
4	13963.000	30.60	21.78	52.38	74.00	-21.62	peak
5	15536.000	35.85	16.73	52.58	74.00	-21.42	peak
6	17956.000	26.07	25.82	51.89	74.00	-22.11	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

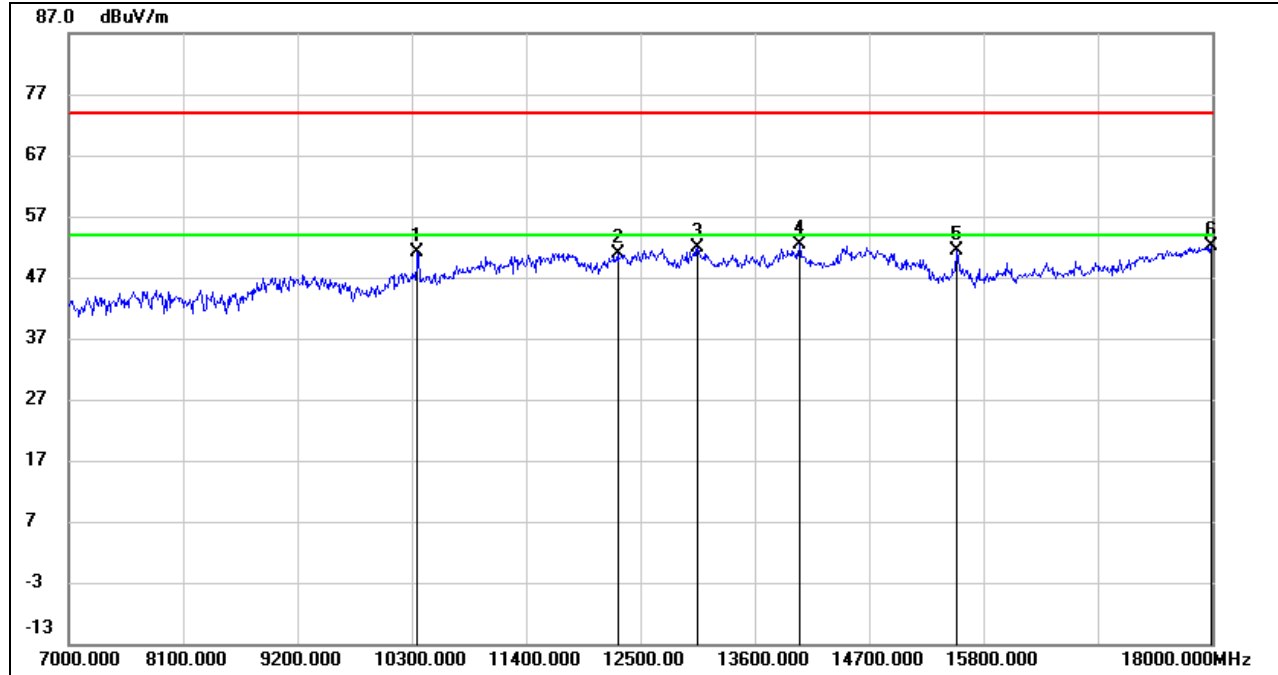


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	42.23	12.52	54.75	74.00	-19.25	peak
2	10355.000	29.10	12.52	41.62	54.00	-12.38	AVG
3	12698.000	33.71	18.08	51.79	74.00	-22.21	peak
4	14007.000	30.28	21.85	52.13	74.00	-21.87	peak
5	14480.000	32.19	19.87	52.06	74.00	-21.94	peak
6	15547.000	35.75	16.73	52.48	74.00	-21.52	peak
7	17967.000	26.76	25.89	52.65	74.00	-21.35	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



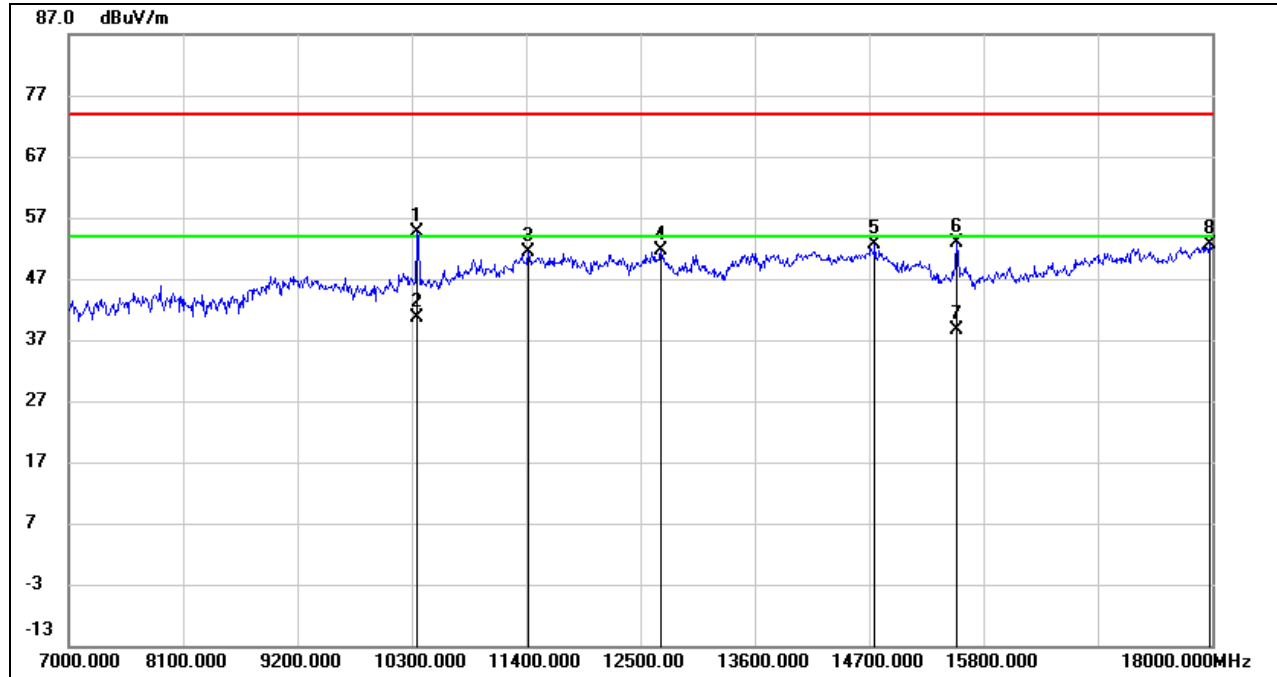
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	38.63	12.52	51.15	74.00	-22.85	peak
2	12280.000	33.19	17.77	50.96	74.00	-23.04	peak
3	13050.000	33.10	18.66	51.76	74.00	-22.24	peak
4	14029.000	30.52	21.76	52.28	74.00	-21.72	peak
5	15536.000	34.67	16.73	51.40	74.00	-22.60	peak
6	17989.000	26.00	26.04	52.04	74.00	-21.96	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



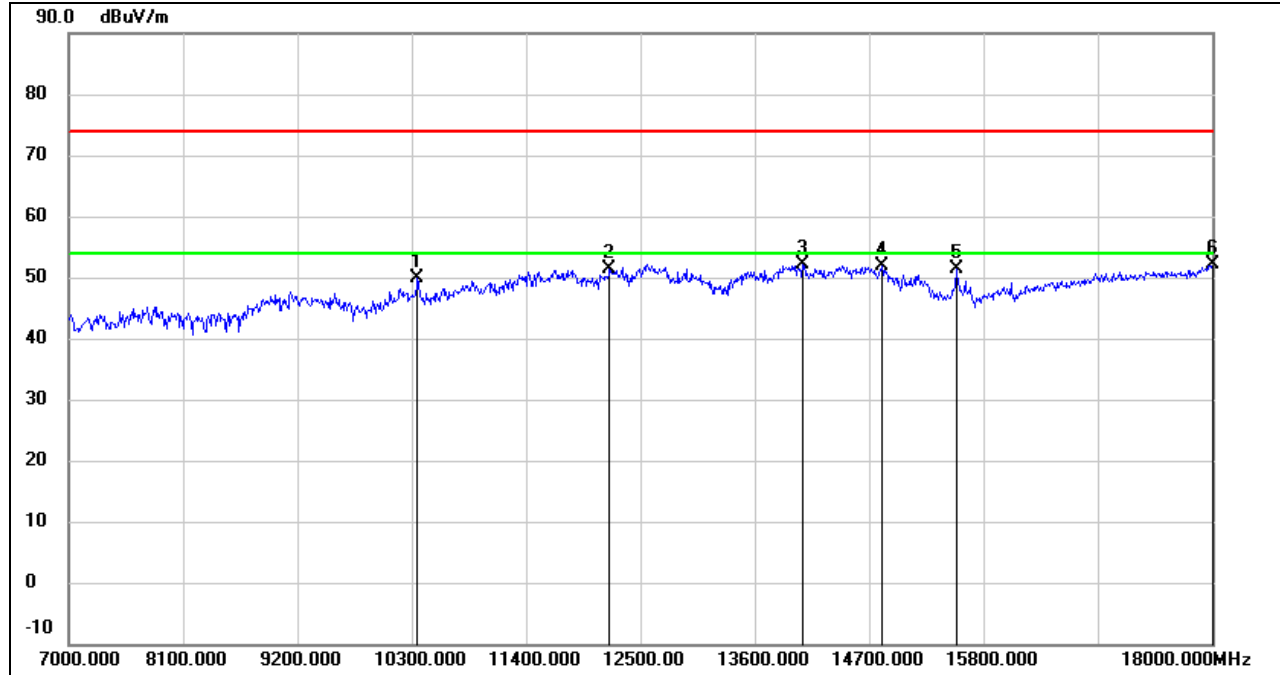
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	42.11	12.52	54.63	74.00	-19.37	peak
2	10355.000	28.17	12.52	40.69	54.00	-13.31	AVG
3	11422.000	34.81	16.46	51.27	74.00	-22.73	peak
4	12698.000	33.47	18.08	51.55	74.00	-22.45	peak
5	14755.000	33.94	18.70	52.64	74.00	-21.36	peak
6	15536.000	36.25	16.73	52.98	74.00	-21.02	peak
7	15536.000	22.02	16.73	38.75	54.00	-15.25	AVG
8	17978.000	26.71	25.97	52.68	74.00	-21.32	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



UNII-2A BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

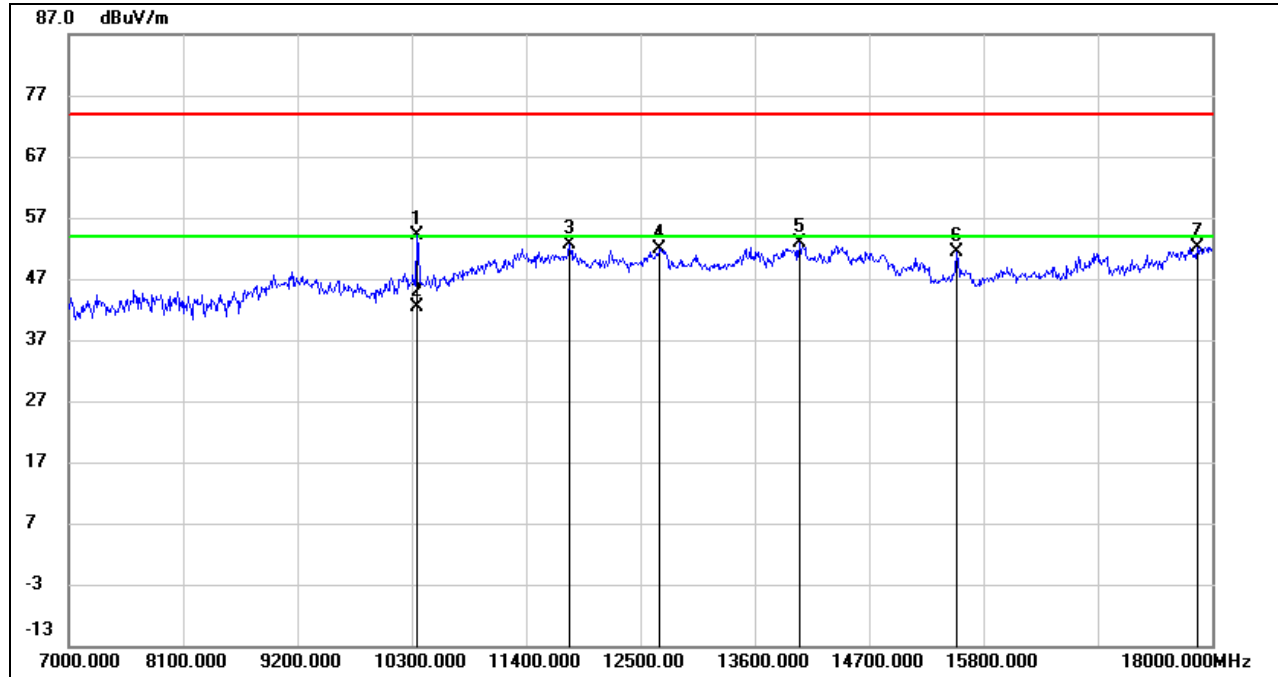


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10355.000	37.48	12.52	50.00	74.00	-24.00	peak
2	12203.000	33.65	17.76	51.41	74.00	-22.59	peak
3	14062.000	30.49	21.62	52.11	74.00	-21.89	peak
4	14821.000	33.37	18.42	51.79	74.00	-22.21	peak
5	15536.000	34.68	16.73	51.41	74.00	-22.59	peak
6	18000.000	26.00	26.12	52.12	74.00	-21.88	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

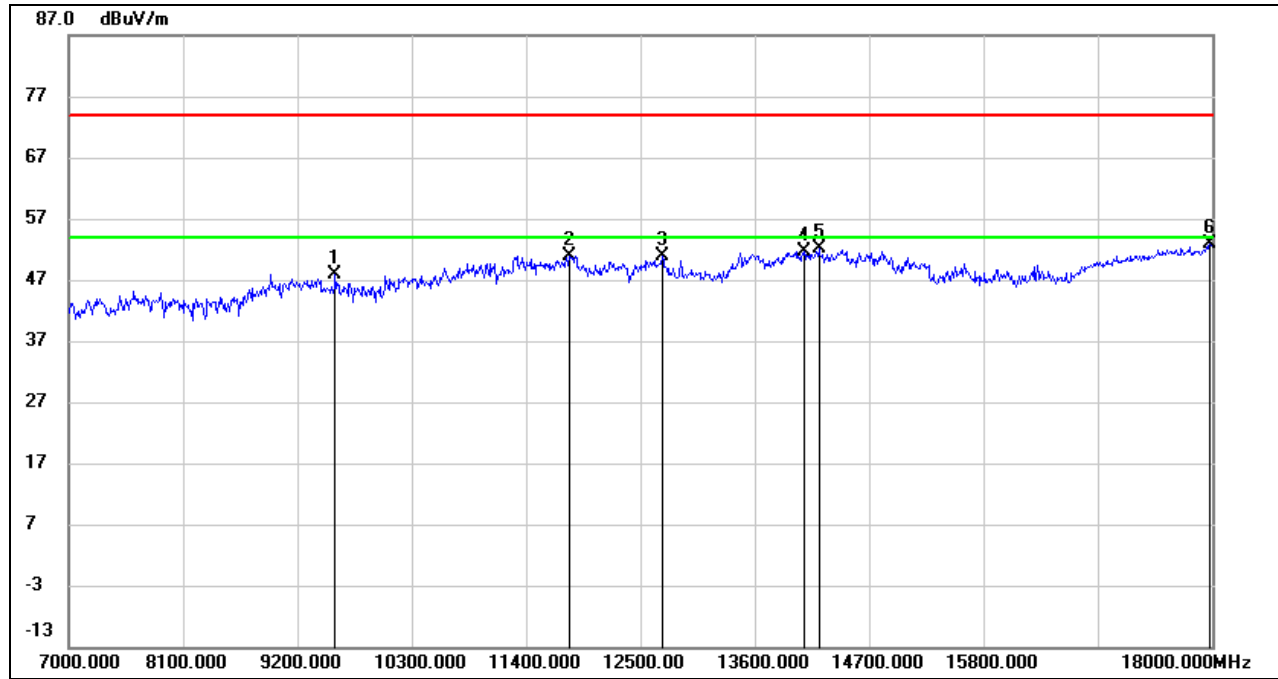


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10344.000	41.65	12.49	54.14	74.00	-19.86	peak
2	10344.000	29.87	12.49	42.36	54.00	-11.64	AVG
3	11818.000	35.28	17.36	52.64	74.00	-21.36	peak
4	12687.000	33.94	18.05	51.99	74.00	-22.01	peak
5	14029.000	31.16	21.76	52.92	74.00	-21.08	peak
6	15536.000	34.58	16.73	51.31	74.00	-22.69	peak
7	17857.000	27.03	25.14	52.17	74.00	-21.83	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

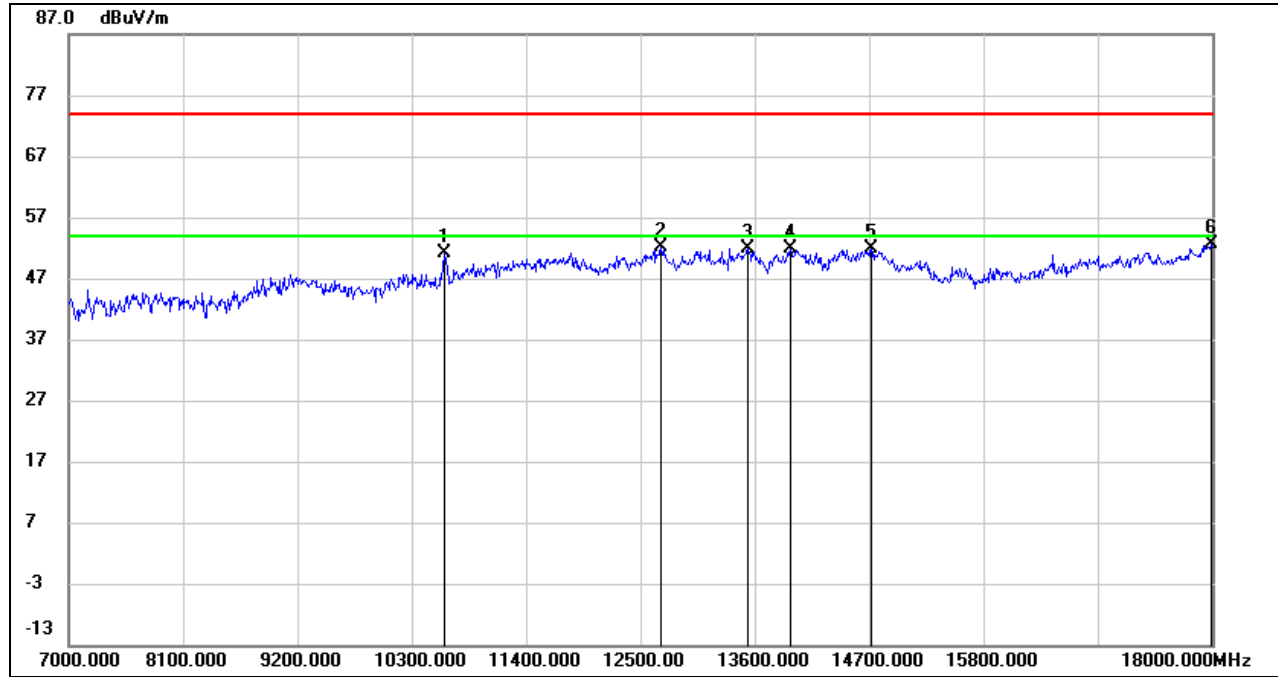


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9563.000	37.09	10.79	47.88	74.00	-26.12	peak
2	11818.000	33.56	17.36	50.92	74.00	-23.08	peak
3	12709.000	32.81	18.09	50.90	74.00	-23.10	peak
4	14073.000	30.16	21.57	51.73	74.00	-22.27	peak
5	14216.000	31.18	20.98	52.16	74.00	-21.84	peak
6	17978.000	26.99	25.97	52.96	74.00	-21.04	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

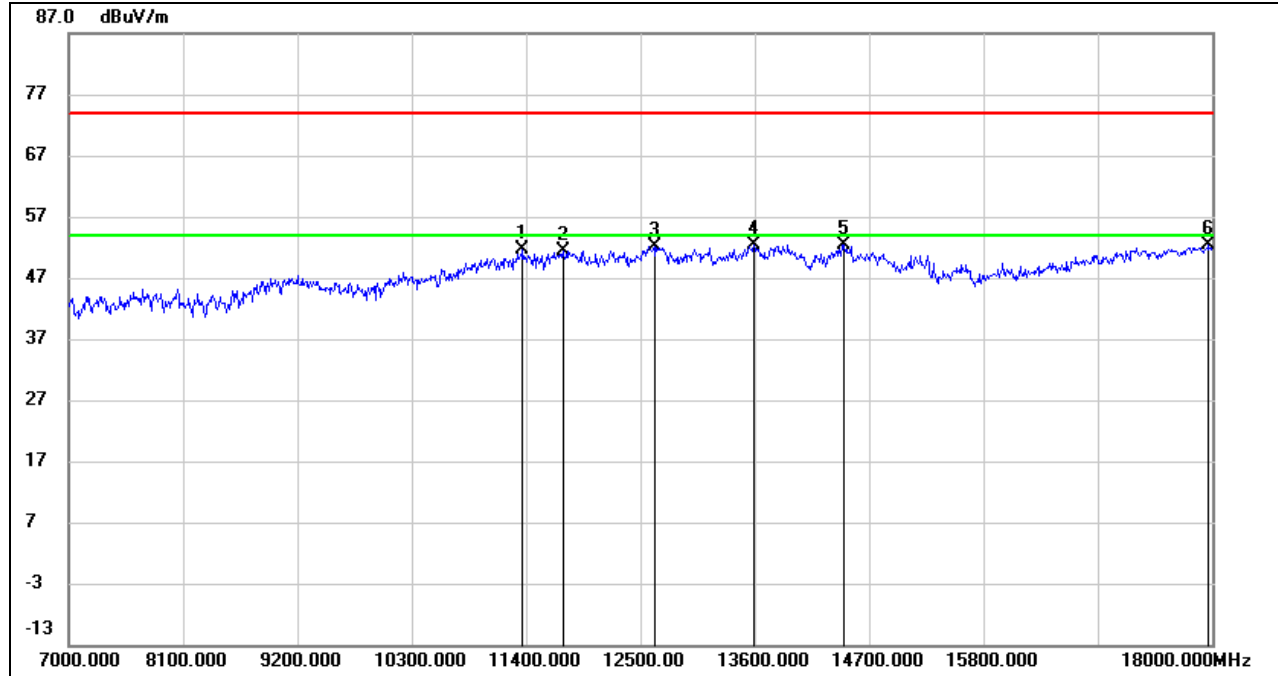


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10619.000	37.82	13.28	51.10	74.00	-22.90	peak
2	12698.000	33.94	18.08	52.02	74.00	-21.98	peak
3	13534.000	31.07	20.73	51.80	74.00	-22.20	peak
4	13941.000	30.03	21.73	51.76	74.00	-22.24	peak
5	14722.000	32.98	18.84	51.82	74.00	-22.18	peak
6	17989.000	26.48	26.04	52.52	74.00	-21.48	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2C BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

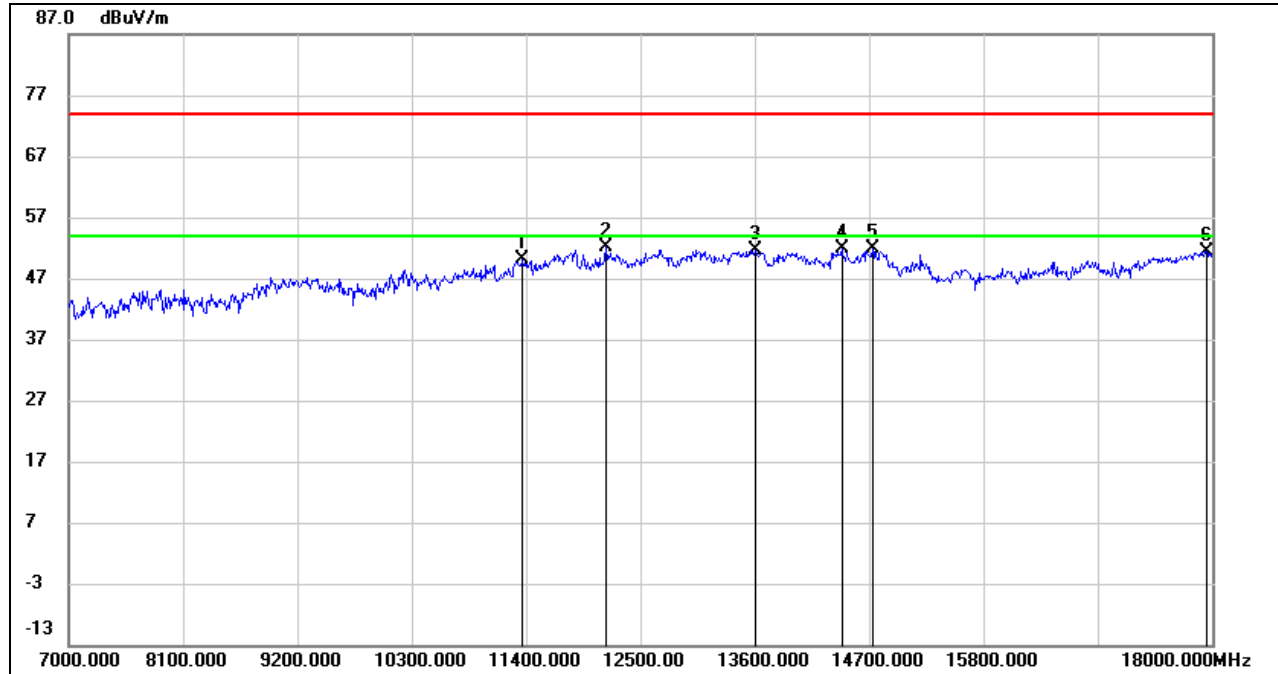


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11367.000	35.50	16.22	51.72	74.00	-22.28	peak
2	11752.000	34.17	17.24	51.41	74.00	-22.59	peak
3	12632.000	34.16	17.99	52.15	74.00	-21.85	peak
4	13589.000	31.43	20.86	52.29	74.00	-21.71	peak
5	14458.000	32.51	19.95	52.46	74.00	-21.54	peak
6	17967.000	26.50	25.89	52.39	74.00	-21.61	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



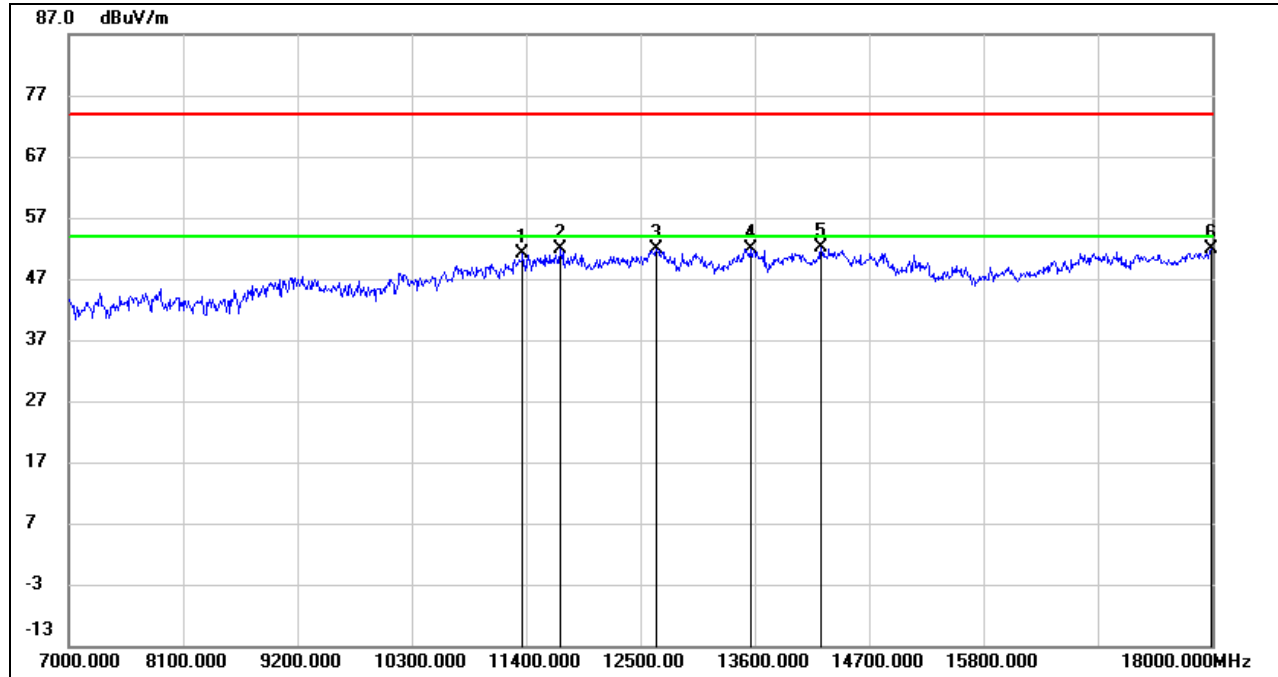
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11367.000	33.98	16.22	50.20	74.00	-23.80	peak
2	12170.000	34.40	17.75	52.15	74.00	-21.85	peak
3	13600.000	30.80	20.89	51.69	74.00	-22.31	peak
4	14436.000	31.82	20.05	51.87	74.00	-22.13	peak
5	14733.000	33.19	18.79	51.98	74.00	-22.02	peak
6	17945.000	25.66	25.75	51.41	74.00	-22.59	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

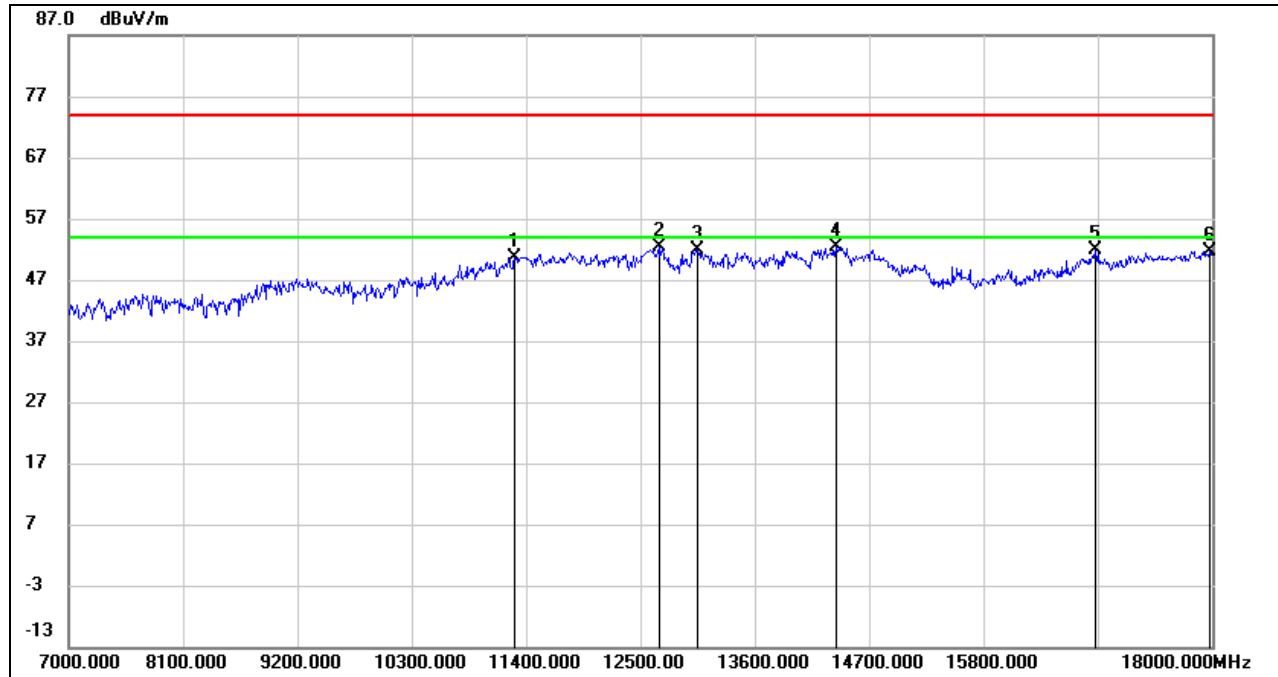
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11367.000	34.81	16.22	51.03	74.00	-22.97	peak
2	11730.000	34.63	17.19	51.82	74.00	-22.18	peak
3	12654.000	33.88	18.01	51.89	74.00	-22.11	peak
4	13556.000	31.14	20.78	51.92	74.00	-22.08	peak
5	14238.000	31.22	20.88	52.10	74.00	-21.90	peak
6	17989.000	25.94	26.04	51.98	74.00	-22.02	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

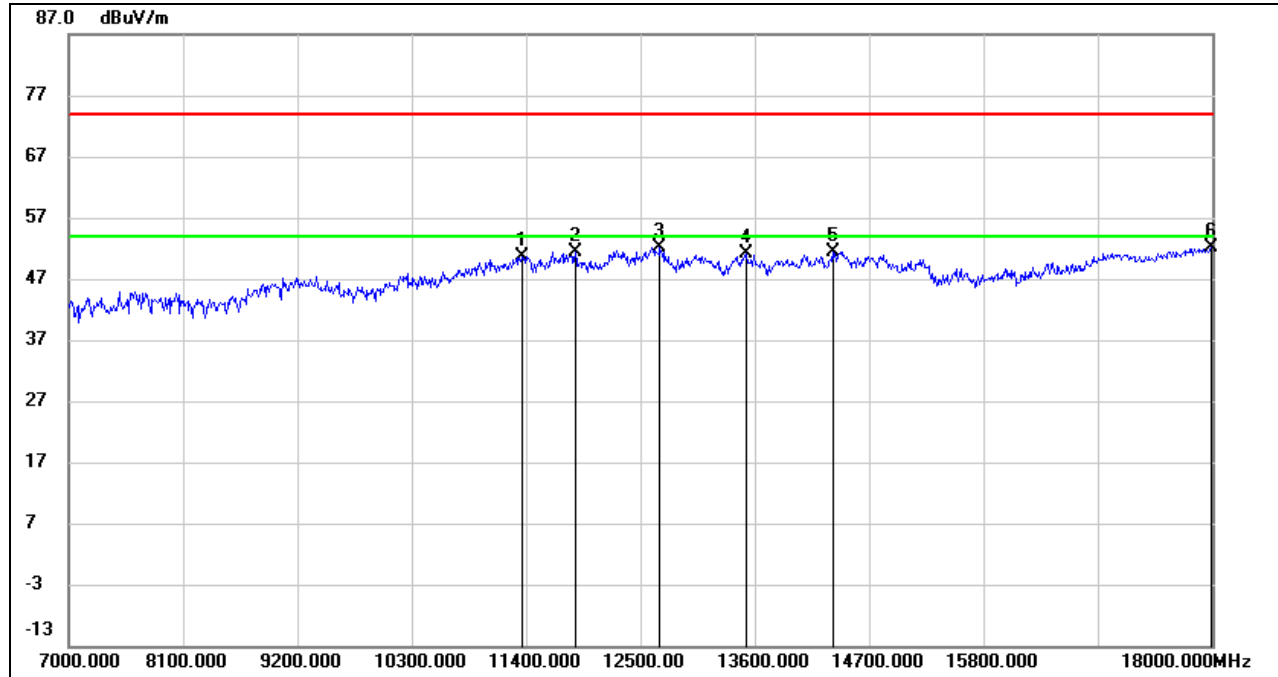
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11290.000	34.78	15.90	50.68	74.00	-23.32	peak
2	12676.000	34.44	18.05	52.49	74.00	-21.51	peak
3	13050.000	33.29	18.66	51.95	74.00	-22.05	peak
4	14381.000	32.20	20.28	52.48	74.00	-21.52	peak
5	16878.000	31.73	20.06	51.79	74.00	-22.21	peak
6	17978.000	25.76	25.97	51.73	74.00	-22.27	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

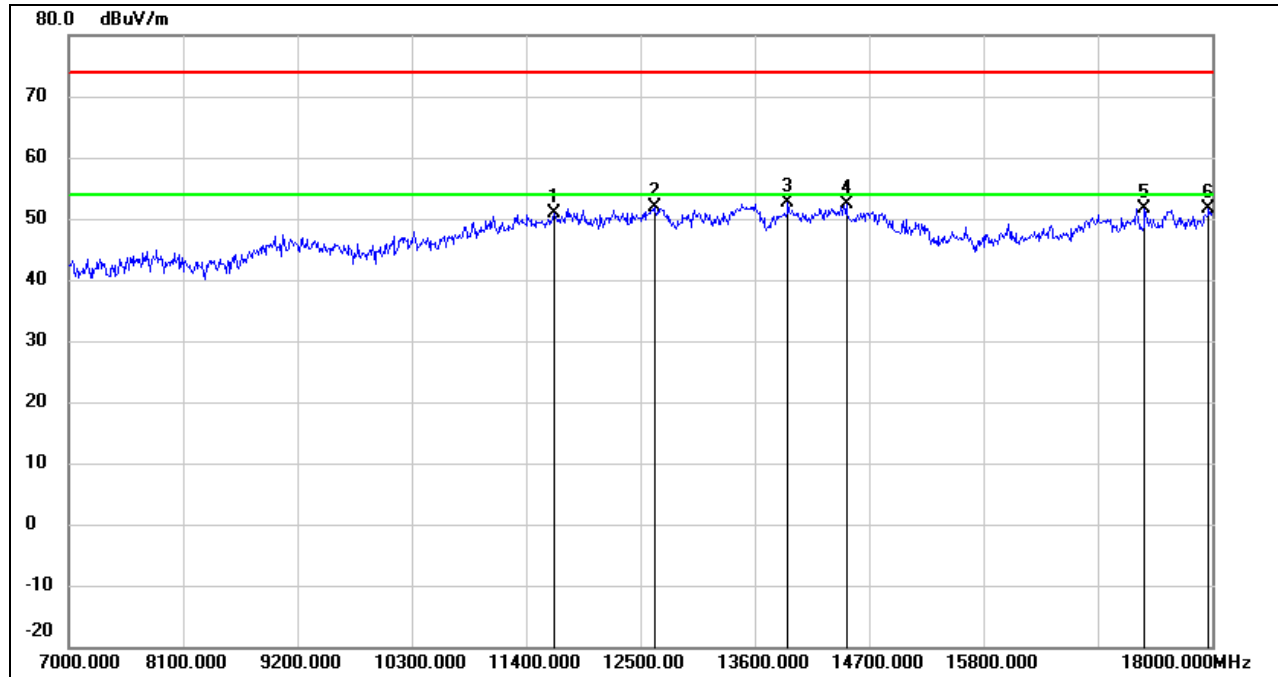
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11356.000	34.35	16.19	50.54	74.00	-23.46	peak
2	11873.000	33.87	17.46	51.33	74.00	-22.67	peak
3	12687.000	34.09	18.05	52.14	74.00	-21.86	peak
4	13512.000	30.50	20.68	51.18	74.00	-22.82	peak
5	14348.000	30.95	20.42	51.37	74.00	-22.63	peak
6	17989.000	26.17	26.04	52.21	74.00	-21.79	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



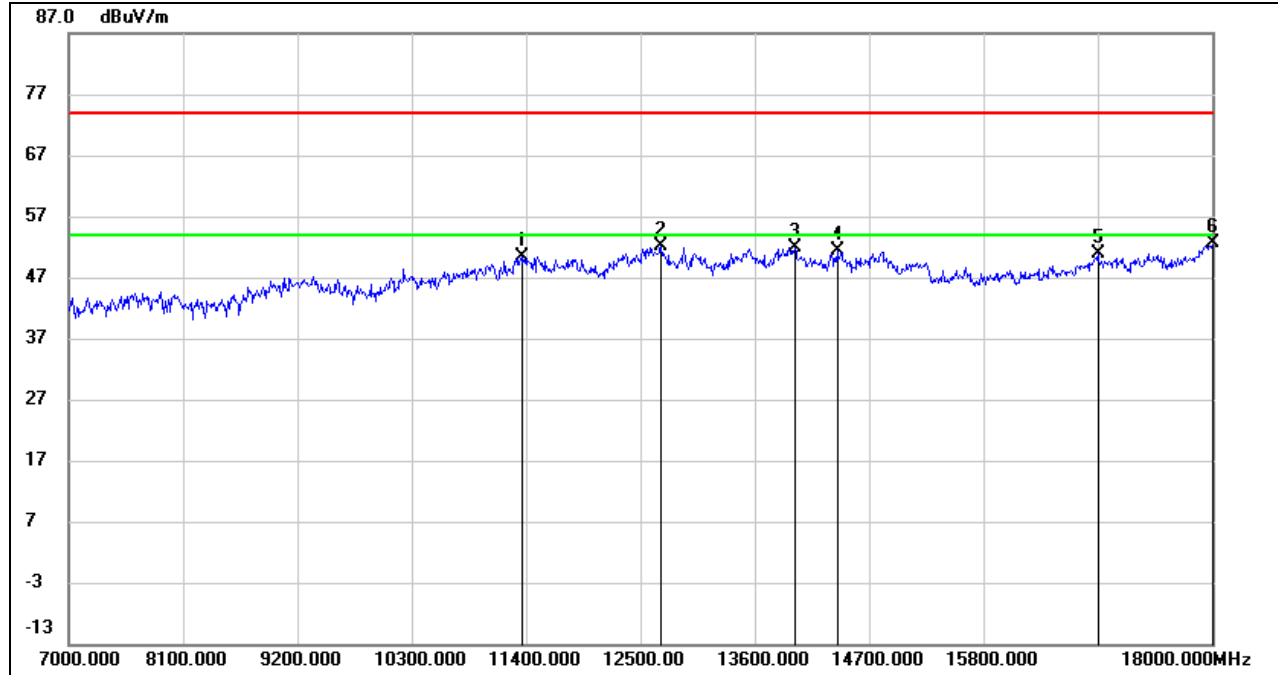
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11664.000	33.87	17.08	50.95	74.00	-23.05	peak
2	12632.000	33.83	17.99	51.82	74.00	-22.18	peak
3	13919.000	30.90	21.68	52.58	74.00	-21.42	peak
4	14480.000	32.53	19.87	52.40	74.00	-21.60	peak
5	17351.000	29.57	22.07	51.64	74.00	-22.36	peak
6	17967.000	25.82	25.89	51.71	74.00	-22.29	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



STRADDLE CHANNEL 142

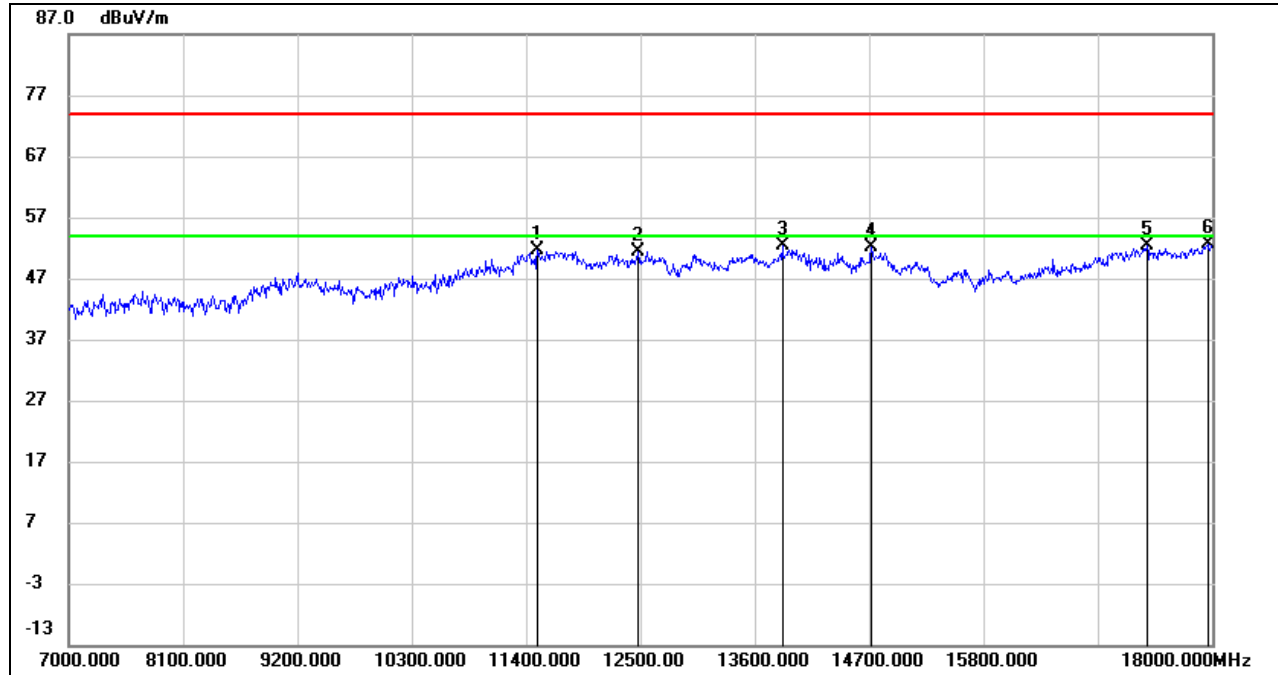
HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11367.000	34.28	16.22	50.50	74.00	-23.50	peak
2	12698.000	34.07	18.08	52.15	74.00	-21.85	peak
3	13985.000	30.05	21.85	51.90	74.00	-22.10	peak
4	14392.000	31.17	20.24	51.41	74.00	-22.59	peak
5	16900.000	30.82	20.16	50.98	74.00	-23.02	peak
6	18000.000	26.42	26.12	52.54	74.00	-21.46	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



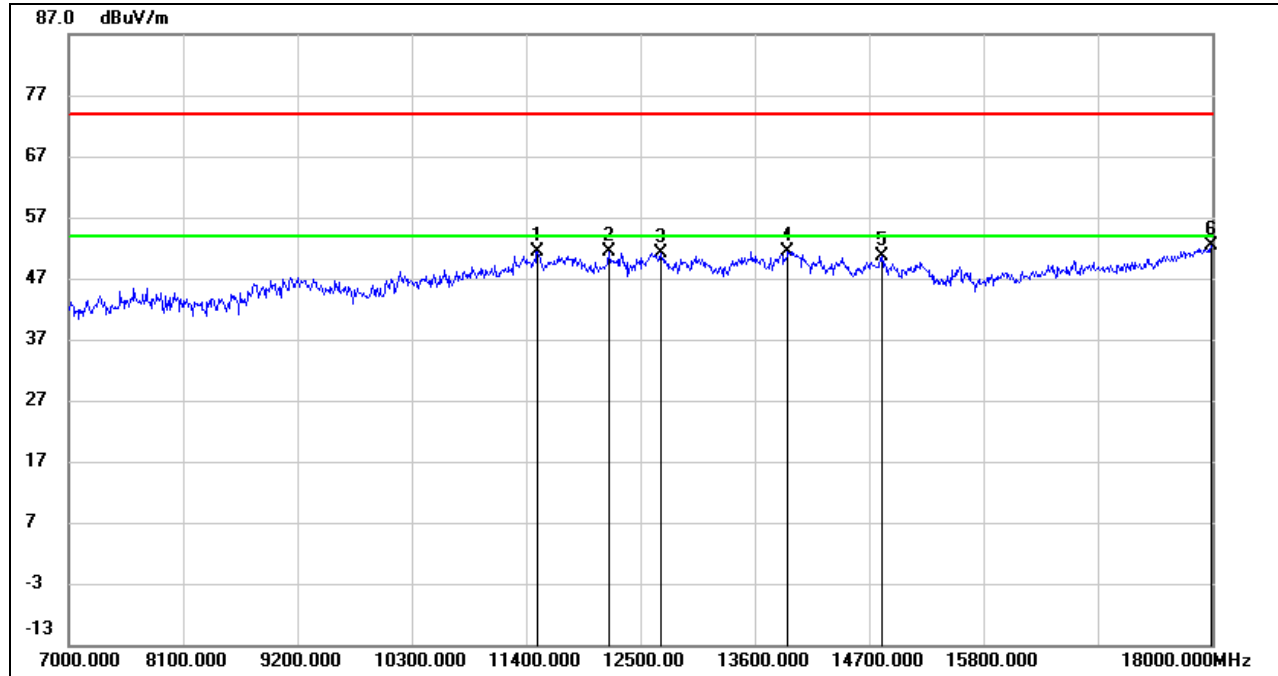
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	34.84	16.79	51.63	74.00	-22.37	peak
2	12478.000	33.57	17.82	51.39	74.00	-22.61	peak
3	13864.000	30.75	21.53	52.28	74.00	-21.72	peak
4	14722.000	33.27	18.84	52.11	74.00	-21.89	peak
5	17373.000	30.10	22.16	52.26	74.00	-21.74	peak
6	17956.000	26.90	25.82	52.72	74.00	-21.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



UNII-3 BAND

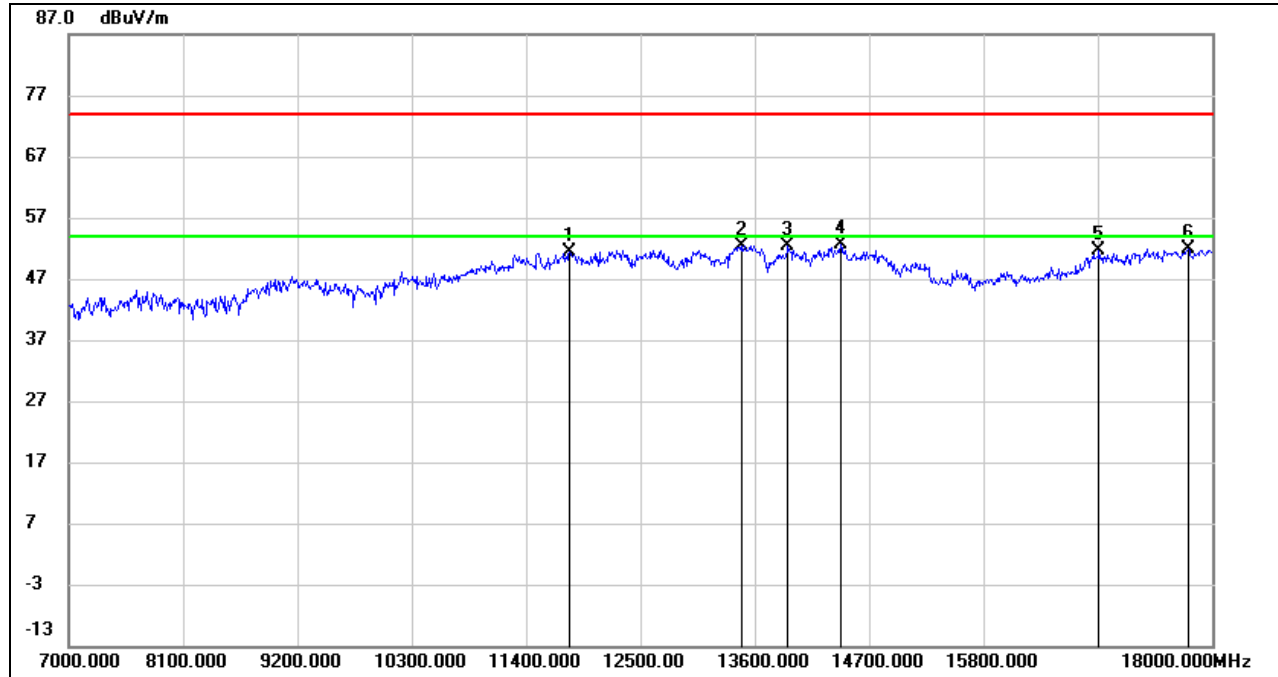
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	34.63	16.79	51.42	74.00	-22.58	peak
2	12192.000	33.64	17.74	51.38	74.00	-22.62	peak
3	12698.000	33.07	18.08	51.15	74.00	-22.85	peak
4	13919.000	29.81	21.68	51.49	74.00	-22.51	peak
5	14821.000	32.11	18.42	50.53	74.00	-23.47	peak
6	17989.000	26.37	26.04	52.41	74.00	-21.59	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

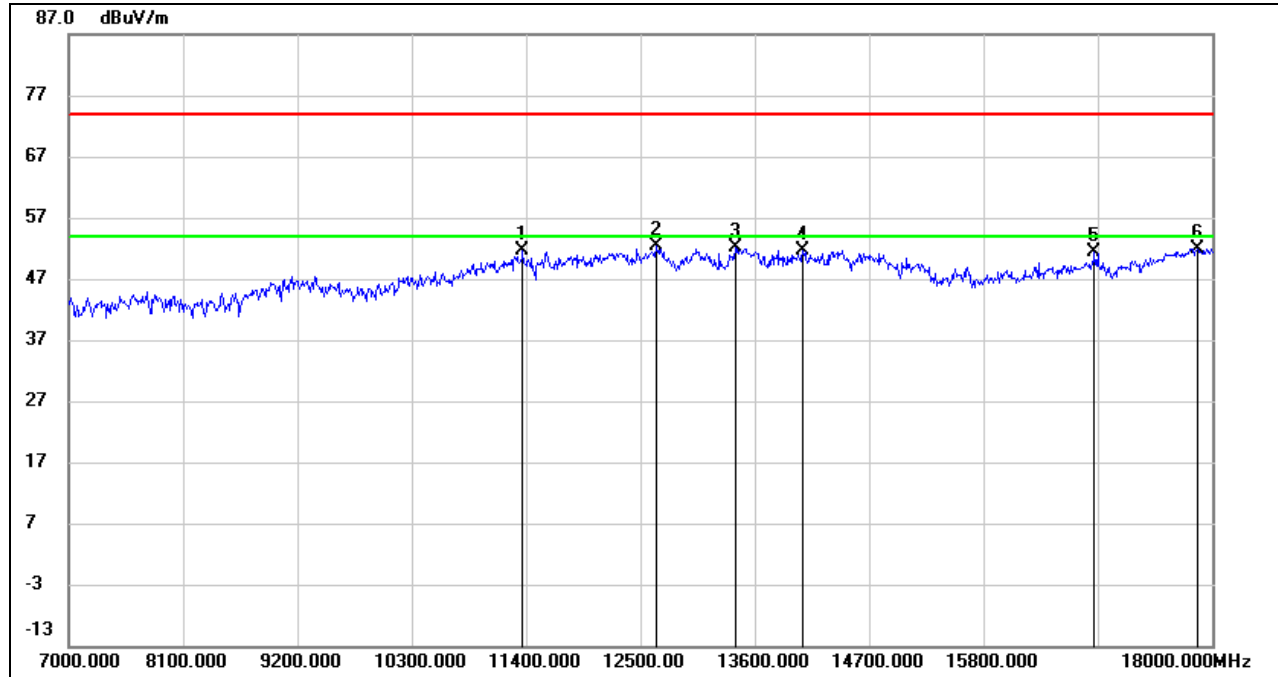
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11818.000	33.91	17.36	51.27	74.00	-22.73	peak
2	13479.000	31.94	20.55	52.49	74.00	-21.51	peak
3	13919.000	30.82	21.68	52.50	74.00	-21.50	peak
4	14425.000	32.52	20.09	52.61	74.00	-21.39	peak
5	16911.000	31.33	20.21	51.54	74.00	-22.46	peak
6	17769.000	27.34	24.53	51.87	74.00	-22.13	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

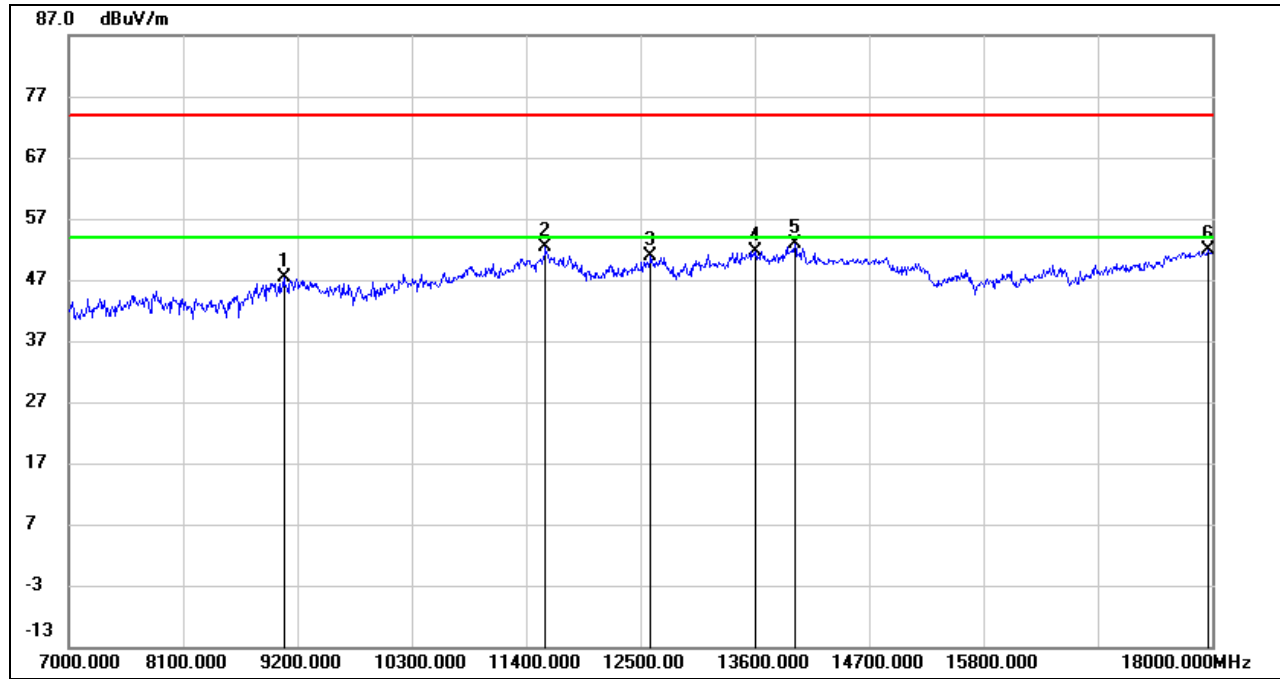


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11367.000	35.47	16.22	51.69	74.00	-22.31	peak
2	12654.000	34.31	18.01	52.32	74.00	-21.68	peak
3	13413.000	31.94	20.26	52.20	74.00	-21.80	peak
4	14062.000	29.99	21.62	51.61	74.00	-22.39	peak
5	16867.000	31.26	20.00	51.26	74.00	-22.74	peak
6	17857.000	26.81	25.14	51.95	74.00	-22.05	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



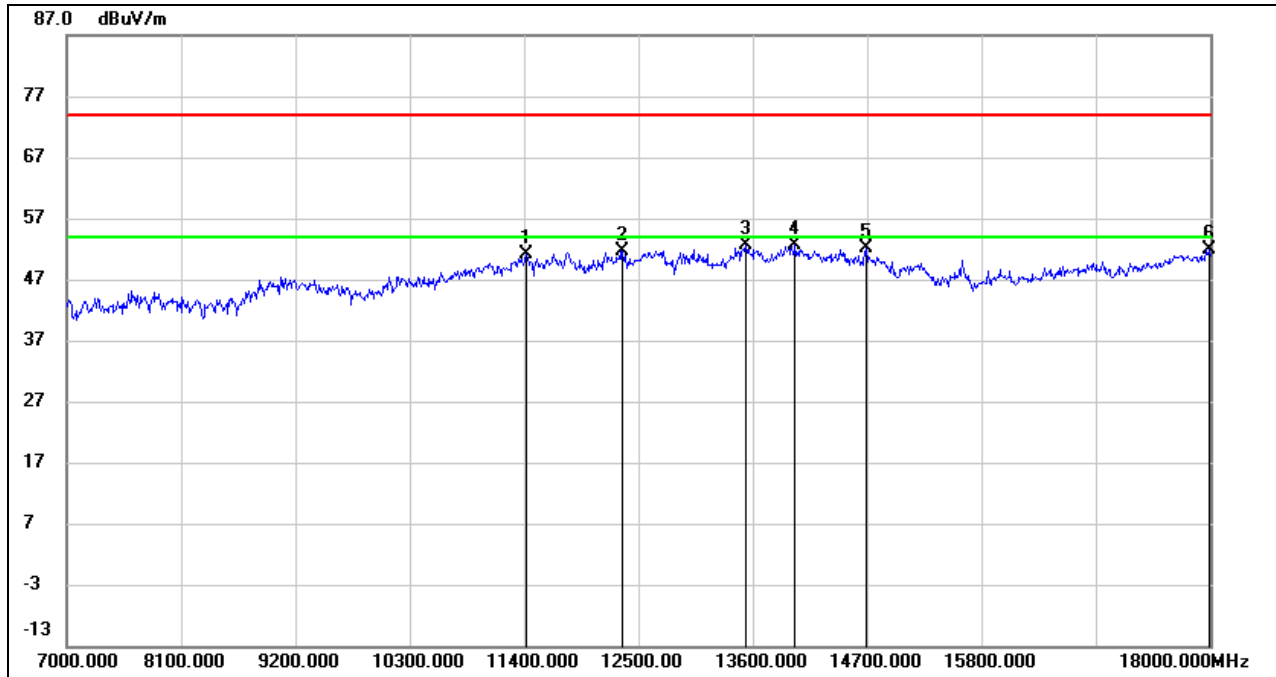
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9068.000	36.99	10.39	47.38	74.00	-26.62	peak
2	11587.000	35.46	16.93	52.39	74.00	-21.61	peak
3	12599.000	33.04	17.95	50.99	74.00	-23.01	peak
4	13611.000	30.78	20.92	51.70	74.00	-22.30	peak
5	13985.000	30.98	21.85	52.83	74.00	-21.17	peak
6	17967.000	26.04	25.89	51.93	74.00	-22.07	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

8.3.4. 802.11ac VHT80 MIMO MODE

UNII-1 BAND

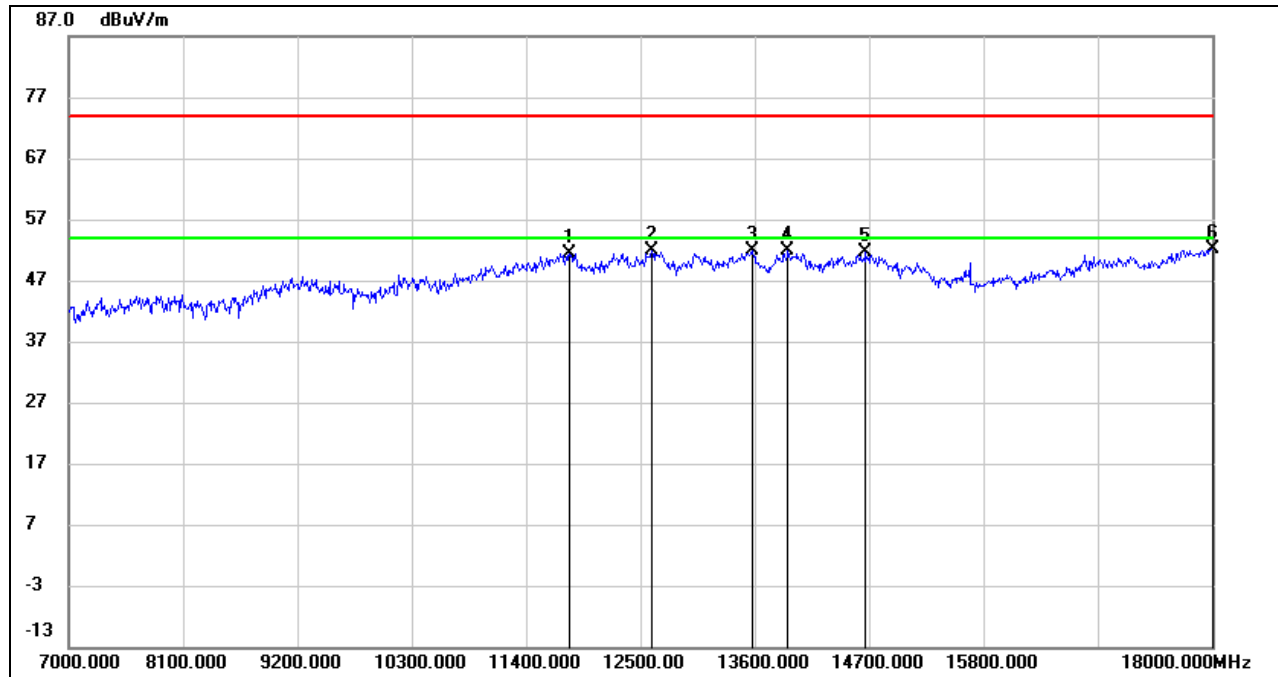
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11422.000	34.59	16.46	51.05	74.00	-22.95	peak
2	12346.000	33.82	17.79	51.61	74.00	-22.39	peak
3	13534.000	31.97	20.73	52.70	74.00	-21.30	peak
4	14007.000	30.89	21.85	52.74	74.00	-21.26	peak
5	14689.000	33.08	18.99	52.07	74.00	-21.93	peak
6	17989.000	25.93	26.04	51.97	74.00	-22.03	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



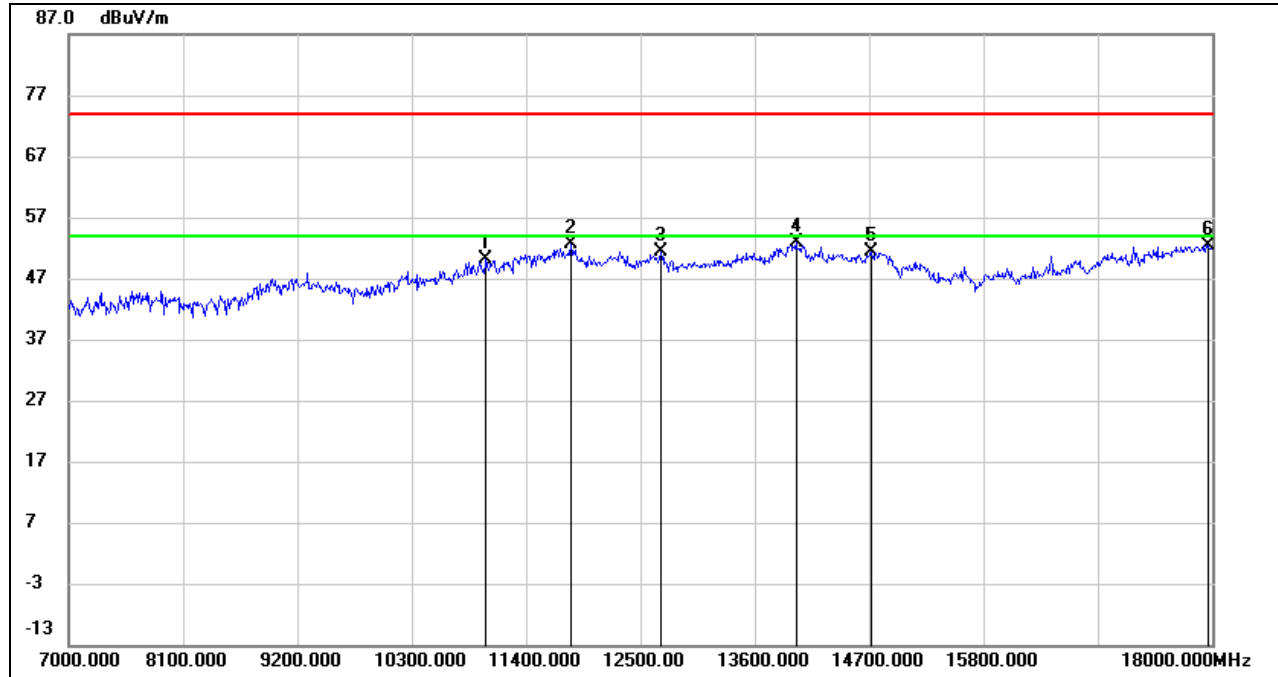
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11818.000	34.10	17.36	51.46	74.00	-22.54	peak
2	12610.000	33.96	17.97	51.93	74.00	-22.07	peak
3	13578.000	31.06	20.83	51.89	74.00	-22.11	peak
4	13919.000	30.14	21.68	51.82	74.00	-22.18	peak
5	14667.000	32.63	19.08	51.71	74.00	-22.29	peak
6	18000.000	26.09	26.12	52.21	74.00	-21.79	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



UNII-2A BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

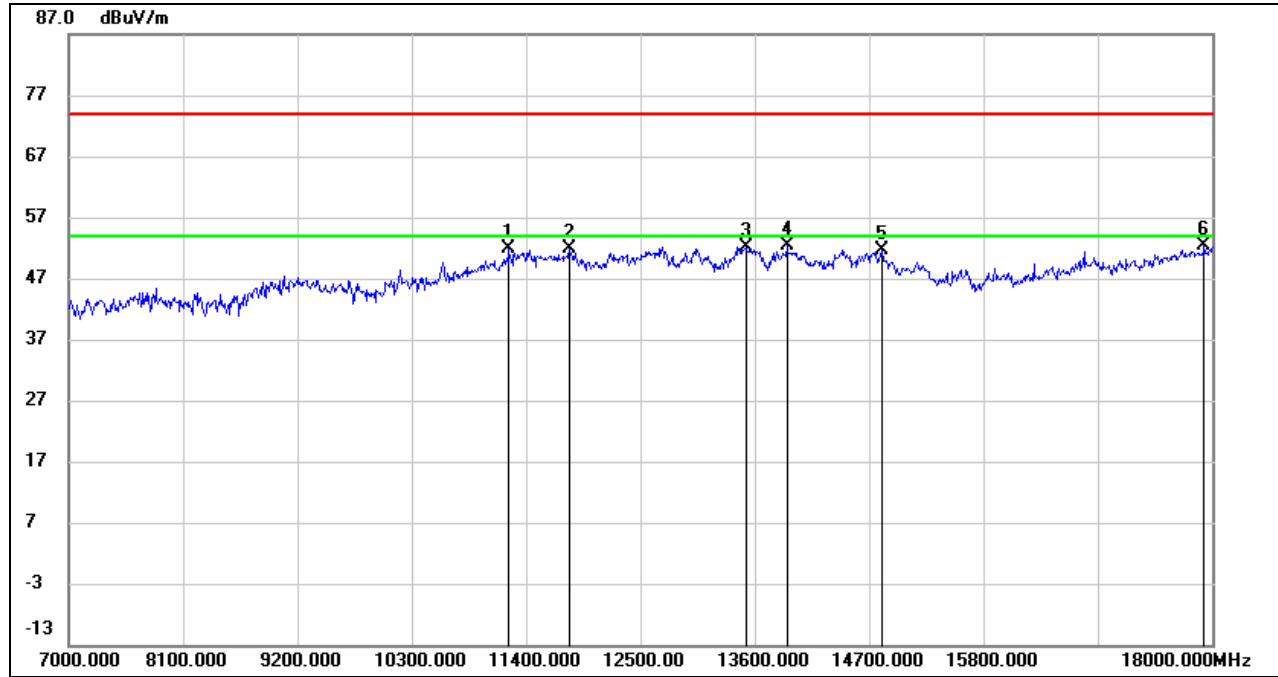


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11015.000	35.23	14.79	50.02	74.00	-23.98	peak
2	11829.000	35.32	17.38	52.70	74.00	-21.30	peak
3	12698.000	33.18	18.08	51.26	74.00	-22.74	peak
4	13996.000	31.03	21.87	52.90	74.00	-21.10	peak
5	14722.000	32.50	18.84	51.34	74.00	-22.66	peak
6	17956.000	26.61	25.82	52.43	74.00	-21.57	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



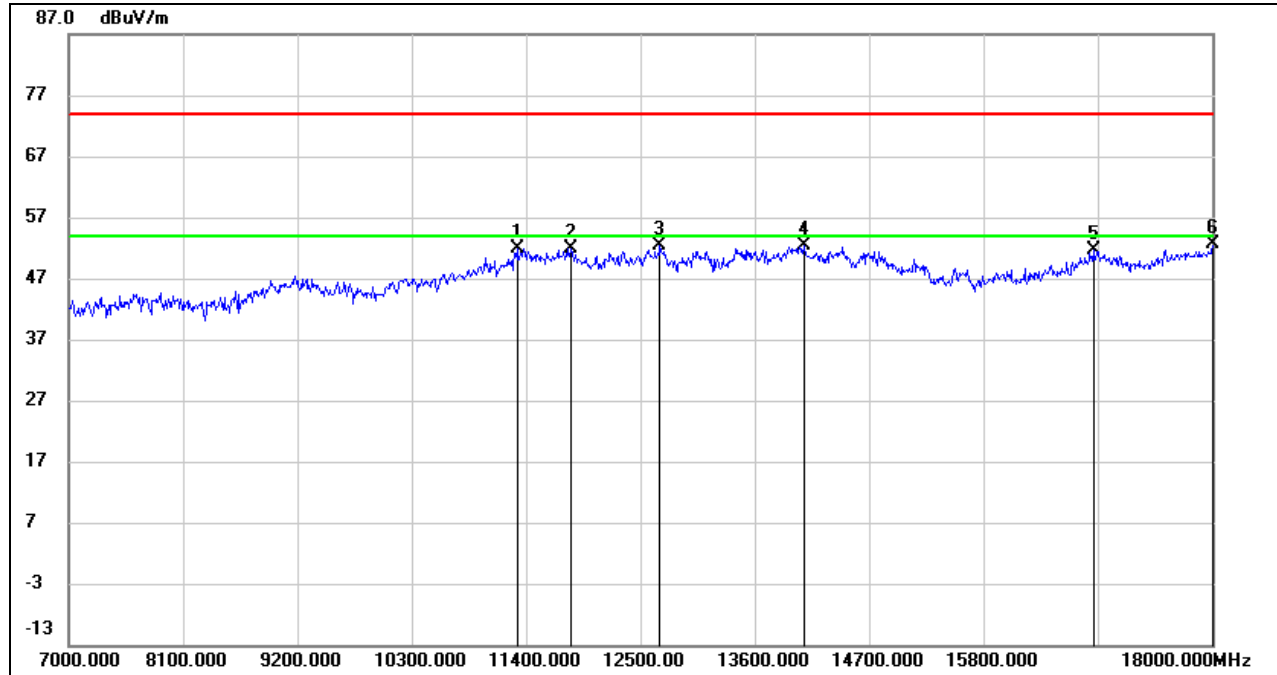
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11235.000	36.15	15.68	51.83	74.00	-22.17	peak
2	11818.000	34.43	17.36	51.79	74.00	-22.21	peak
3	13512.000	31.45	20.68	52.13	74.00	-21.87	peak
4	13908.000	30.64	21.66	52.30	74.00	-21.70	peak
5	14821.000	33.11	18.42	51.53	74.00	-22.47	peak
6	17923.000	26.77	25.60	52.37	74.00	-21.63	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



UNII-2C BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

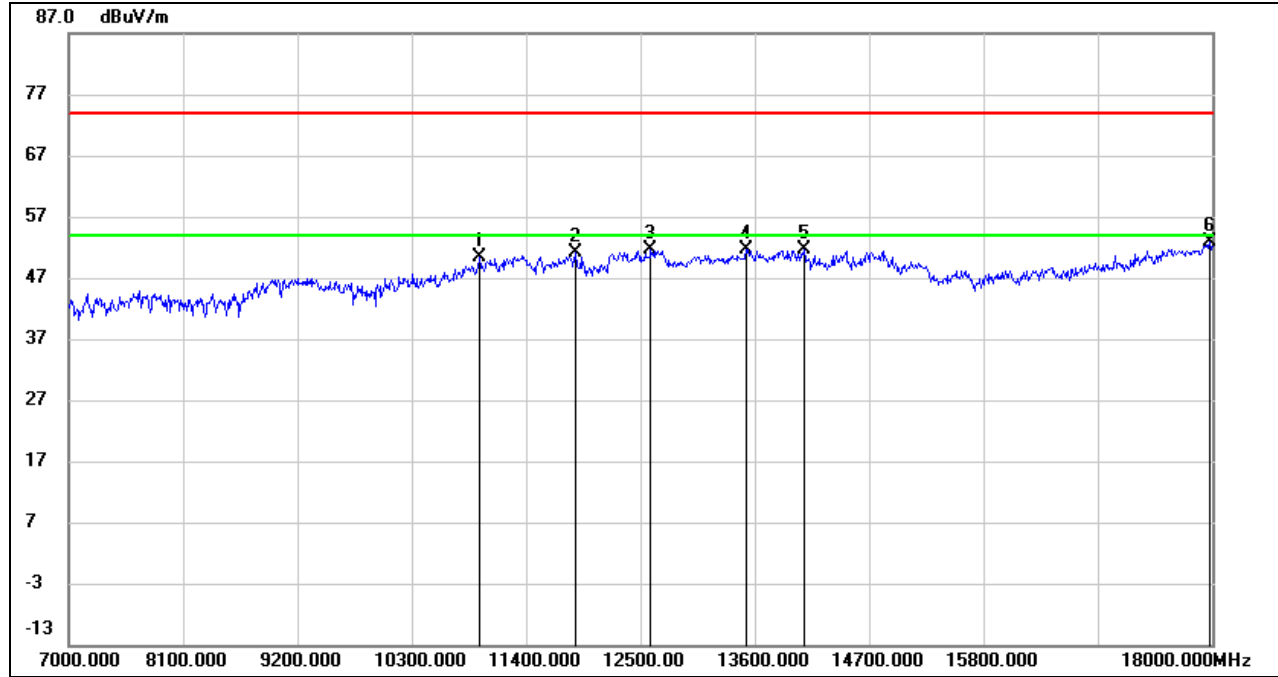


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11312.000	35.77	16.00	51.77	74.00	-22.23	peak
2	11829.000	34.58	17.38	51.96	74.00	-22.04	peak
3	12687.000	34.24	18.05	52.29	74.00	-21.71	peak
4	14073.000	30.70	21.57	52.27	74.00	-21.73	peak
5	16856.000	31.68	19.96	51.64	74.00	-22.36	peak
6	18000.000	26.39	26.12	52.51	74.00	-21.49	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



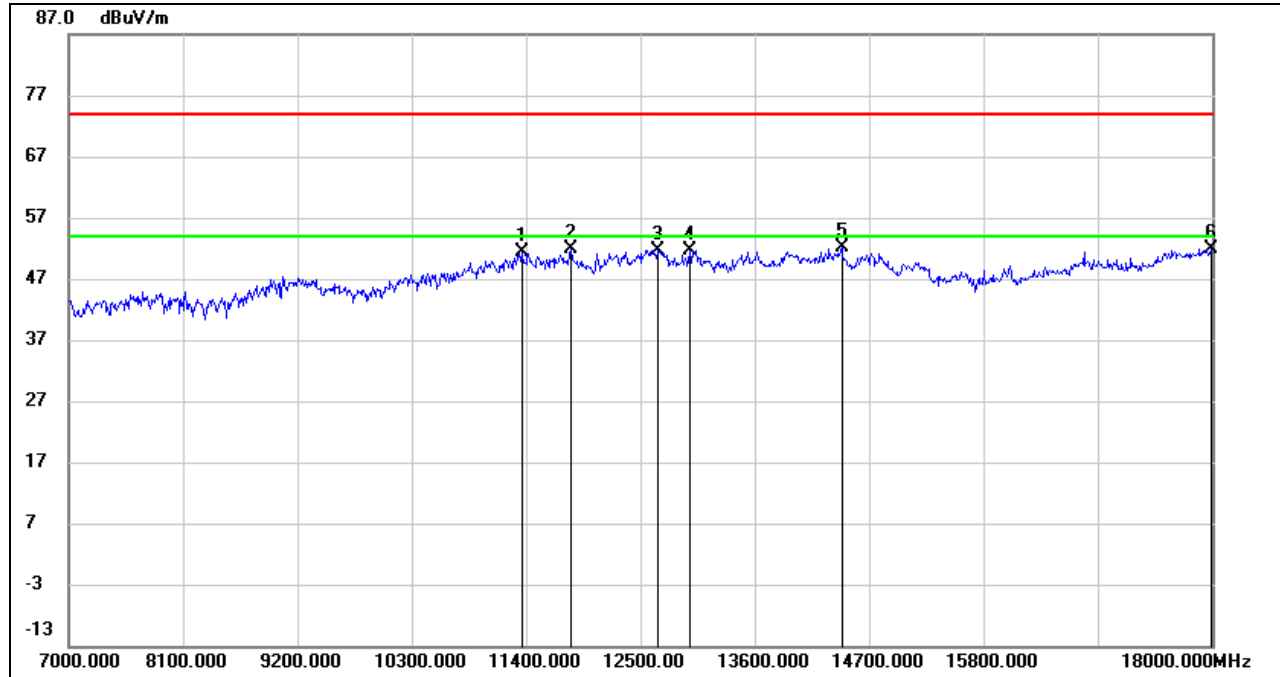
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10949.000	35.87	14.52	50.39	74.00	-23.61	peak
2	11873.000	33.62	17.46	51.08	74.00	-22.92	peak
3	12599.000	33.69	17.95	51.64	74.00	-22.36	peak
4	13523.000	30.87	20.70	51.57	74.00	-22.43	peak
5	14073.000	29.97	21.57	51.54	74.00	-22.46	peak
6	17978.000	26.83	25.97	52.80	74.00	-21.20	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

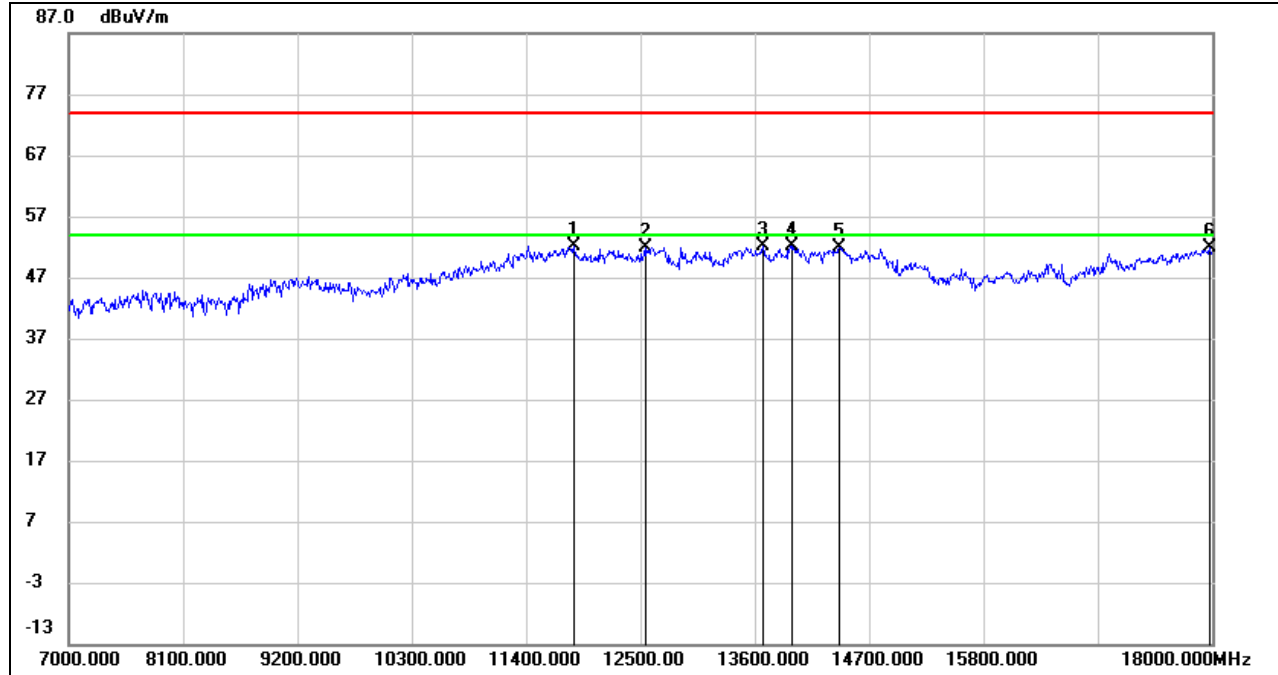


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11356.000	35.08	16.19	51.27	74.00	-22.73	peak
2	11829.000	34.39	17.38	51.77	74.00	-22.23	peak
3	12665.000	33.65	18.04	51.69	74.00	-22.31	peak
4	12973.000	33.26	18.42	51.68	74.00	-22.32	peak
5	14436.000	31.99	20.05	52.04	74.00	-21.96	peak
6	17989.000	25.79	26.04	51.83	74.00	-22.17	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

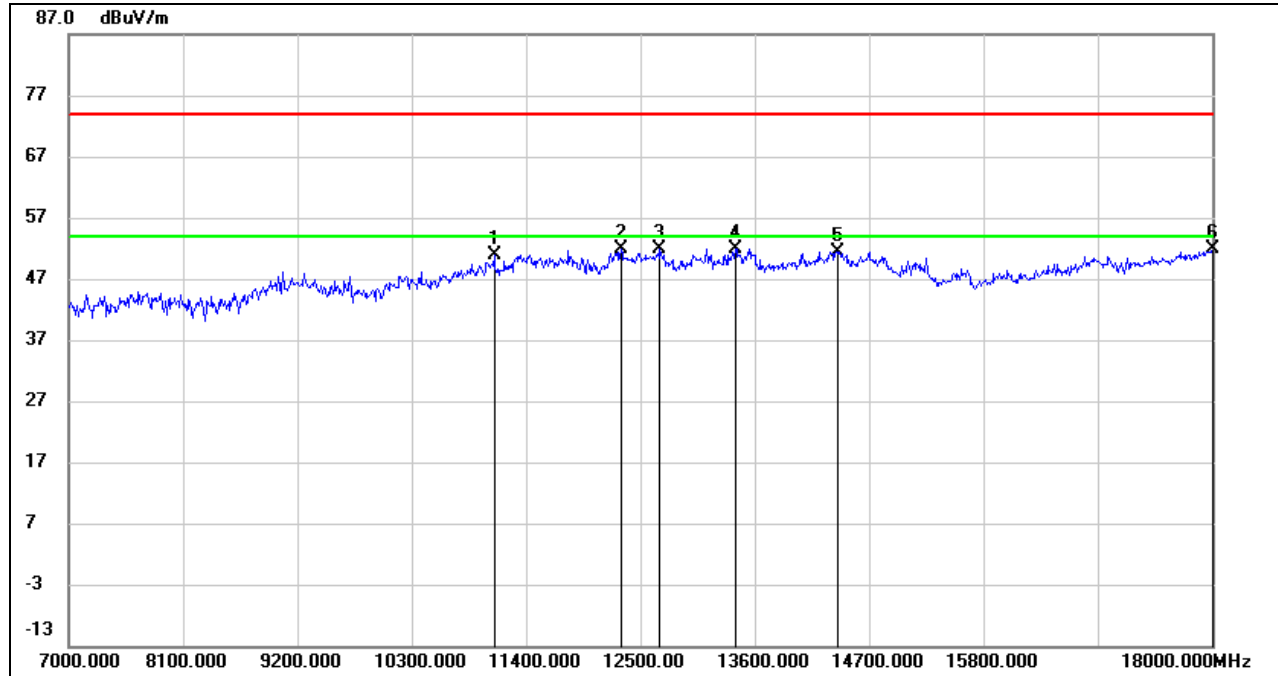


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11862.000	34.75	17.45	52.20	74.00	-21.80	peak
2	12544.000	33.99	17.88	51.87	74.00	-22.13	peak
3	13677.000	30.96	21.08	52.04	74.00	-21.96	peak
4	13963.000	30.45	21.78	52.23	74.00	-21.77	peak
5	14414.000	31.76	20.14	51.90	74.00	-22.10	peak
6	17978.000	25.81	25.97	51.78	74.00	-22.22	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

STRADDLE CHANNEL 138

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

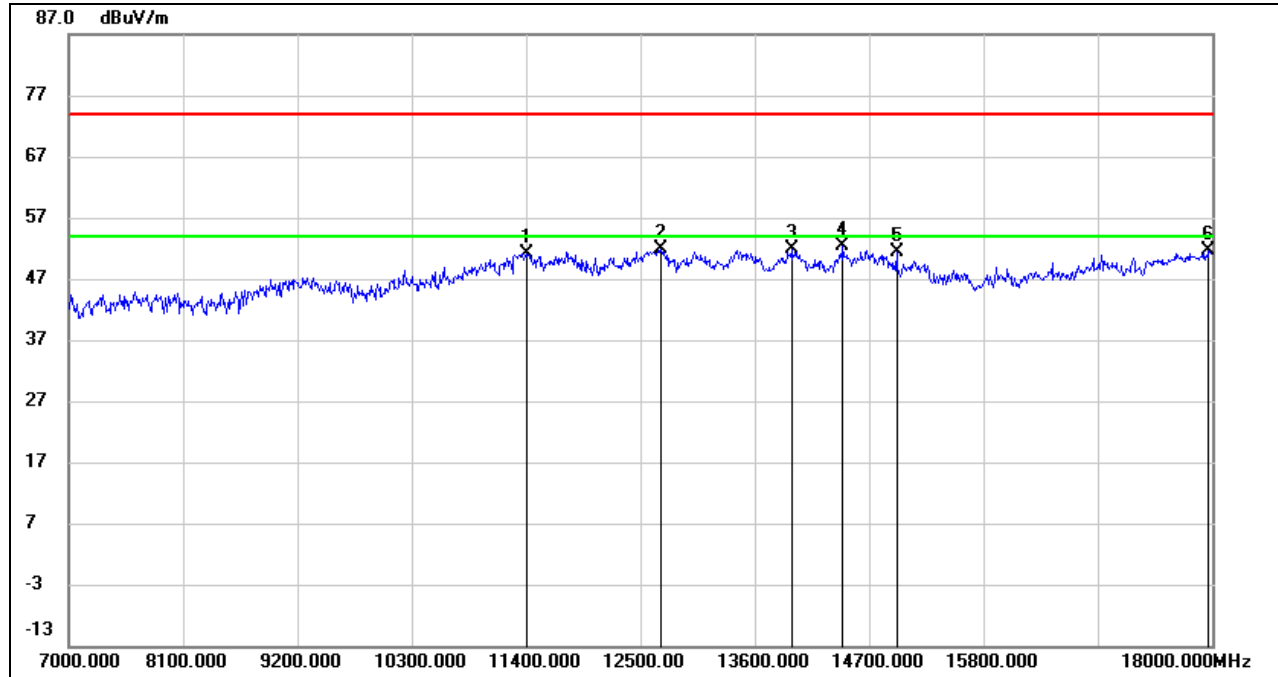


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11092.000	35.73	15.10	50.83	74.00	-23.17	peak
2	12313.000	33.99	17.78	51.77	74.00	-22.23	peak
3	12687.000	33.79	18.05	51.84	74.00	-22.16	peak
4	13413.000	31.64	20.26	51.90	74.00	-22.10	peak
5	14403.000	31.23	20.19	51.42	74.00	-22.58	peak
6	18000.000	25.67	26.12	51.79	74.00	-22.21	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



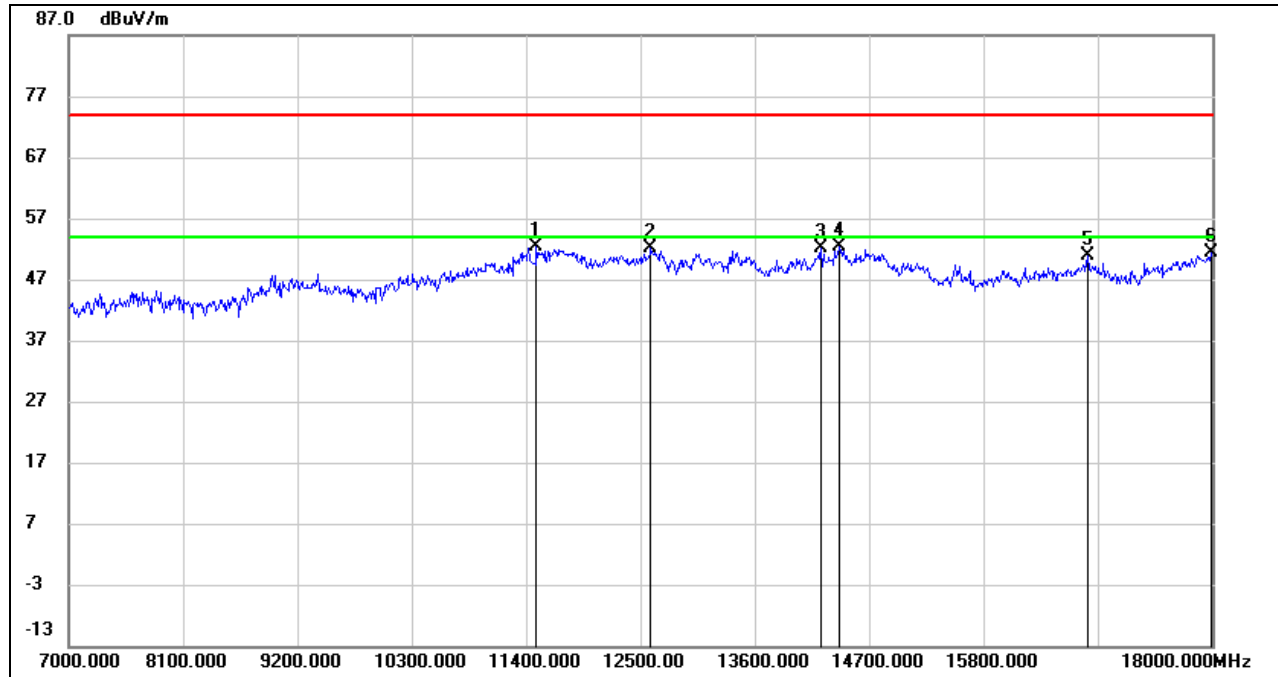
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11411.000	34.65	16.41	51.06	74.00	-22.94	peak
2	12698.000	33.72	18.08	51.80	74.00	-22.20	peak
3	13952.000	30.18	21.76	51.94	74.00	-22.06	peak
4	14447.000	32.37	20.00	52.37	74.00	-21.63	peak
5	14964.000	33.48	17.82	51.30	74.00	-22.70	peak
6	17967.000	25.65	25.89	51.54	74.00	-22.46	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



UNII-3 BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

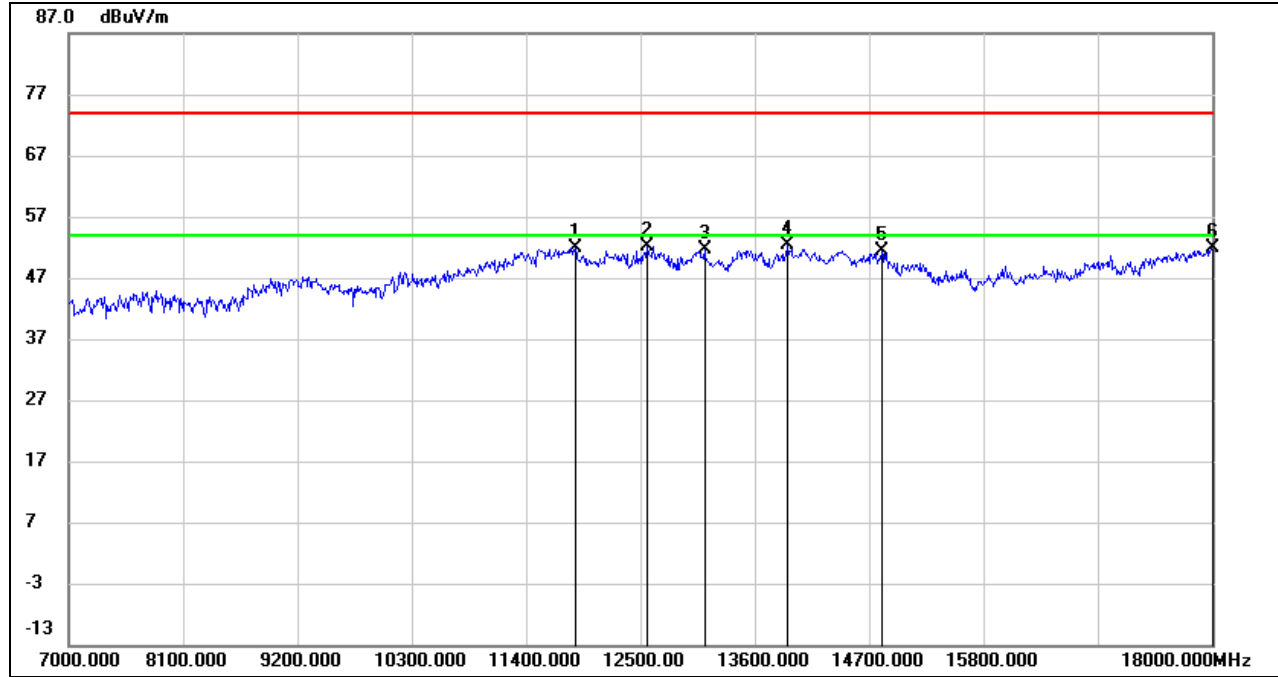


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11499.000	35.49	16.77	52.26	74.00	-21.74	peak
2	12599.000	34.13	17.95	52.08	74.00	-21.92	peak
3	14238.000	31.21	20.88	52.09	74.00	-21.91	peak
4	14414.000	32.21	20.14	52.35	74.00	-21.65	peak
5	16801.000	31.19	19.70	50.89	74.00	-23.11	peak
6	17989.000	25.22	26.04	51.26	74.00	-22.74	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11873.000	34.53	17.46	51.99	74.00	-22.01	peak
2	12566.000	34.29	17.91	52.20	74.00	-21.80	peak
3	13116.000	32.67	18.96	51.63	74.00	-22.37	peak
4	13919.000	30.66	21.68	52.34	74.00	-21.66	peak
5	14821.000	33.07	18.42	51.49	74.00	-22.51	peak
6	18000.000	25.79	26.12	51.91	74.00	-22.09	peak

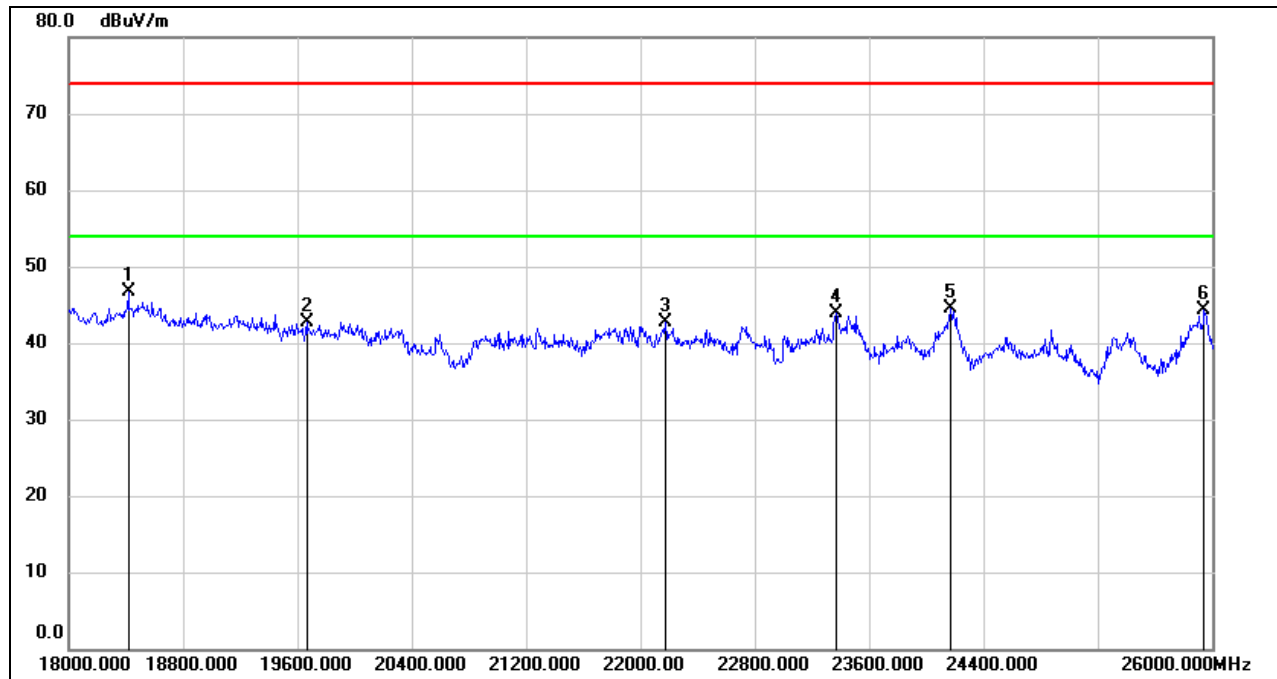
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
 5. For the transmitting duration, please refer to clause 7.1.
 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

8.4. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

8.4.1. 802.11a 20 SISO MODE

ANTENNA 2 TEST RESULTS (WORST CASE)

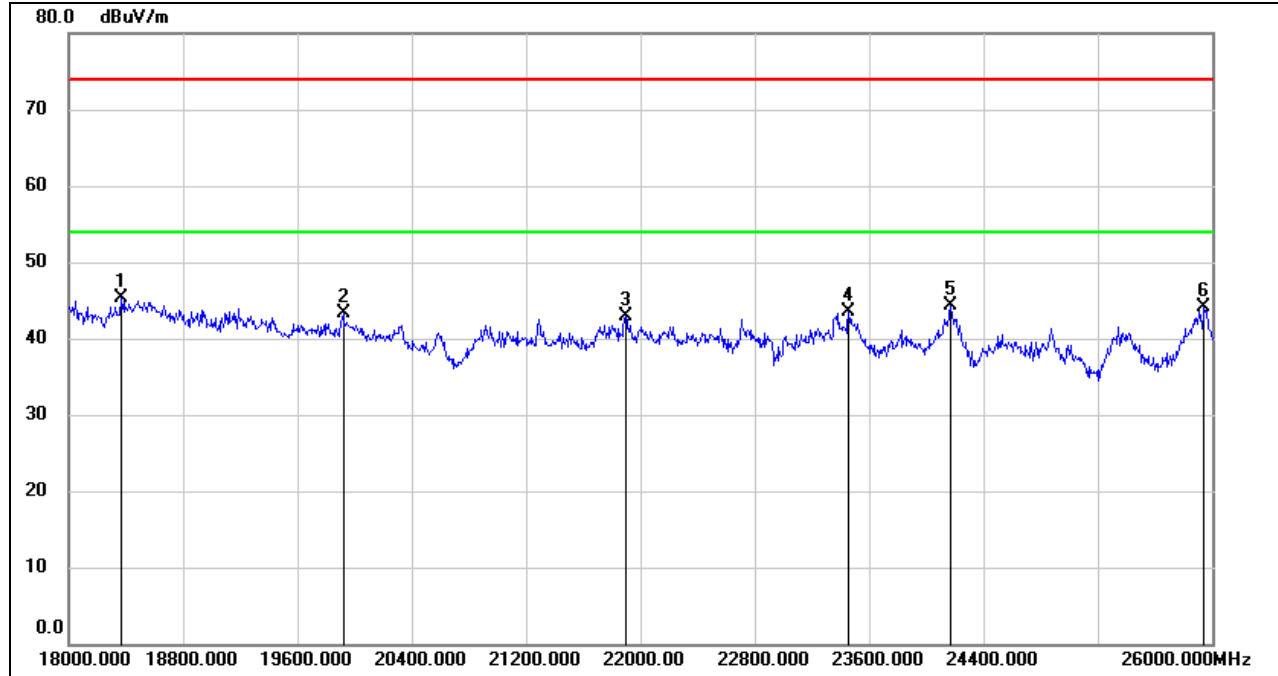
SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18416.000	52.02	-5.35	46.67	74.00	-27.33	peak
2	19664.000	48.01	-5.35	42.66	74.00	-31.34	peak
3	22176.000	46.98	-4.29	42.69	74.00	-31.31	peak
4	23368.000	47.19	-3.26	43.93	74.00	-30.07	peak
5	24168.000	47.26	-2.81	44.45	74.00	-29.55	peak
6	25944.000	45.23	-0.96	44.27	74.00	-29.73	peak

Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.

SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18368.000	50.67	-5.41	45.26	74.00	-28.74	peak
2	19920.000	48.62	-5.38	43.24	74.00	-30.76	peak
3	21896.000	47.34	-4.41	42.93	74.00	-31.07	peak
4	23456.000	46.66	-3.17	43.49	74.00	-30.51	peak
5	24168.000	47.07	-2.81	44.26	74.00	-29.74	peak
6	25944.000	45.00	-0.96	44.04	74.00	-29.96	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.

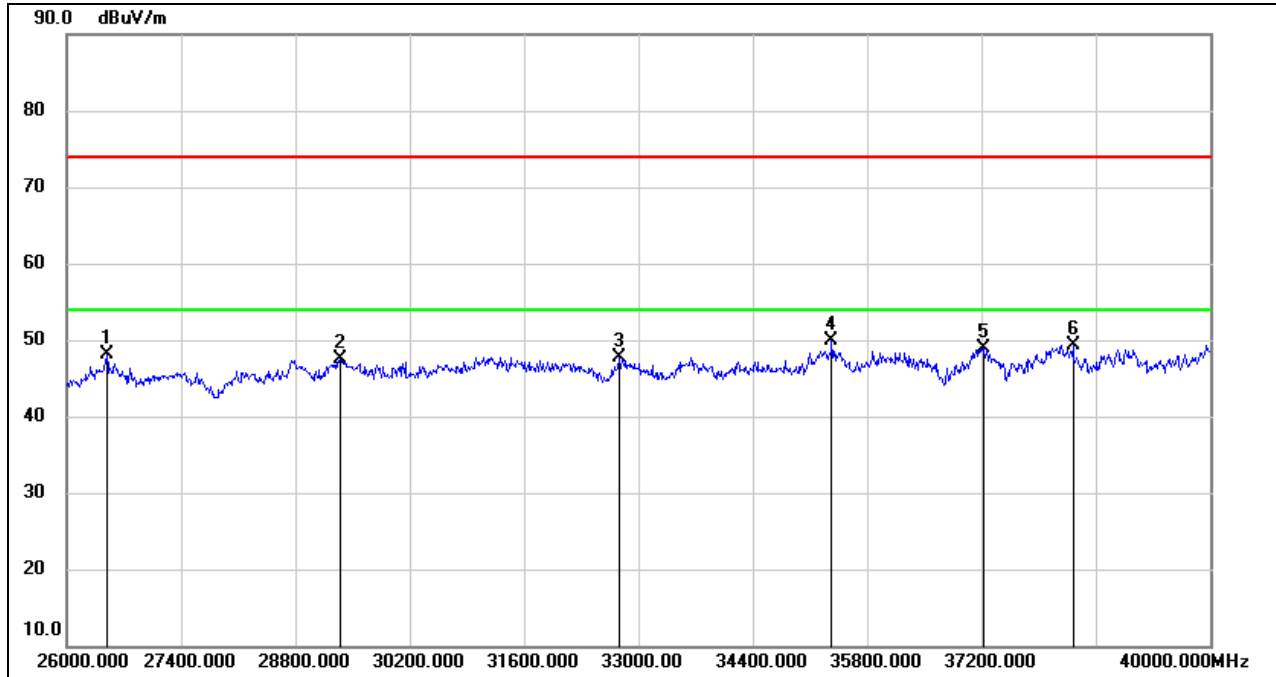
Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

8.5. SPURIOUS EMISSIONS (26 GHz ~ 40 GHz)

8.5.1. 802.11a 20 SISO MODE

ANTENNA 2 TEST RESULTS (WORST CASE)

SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)

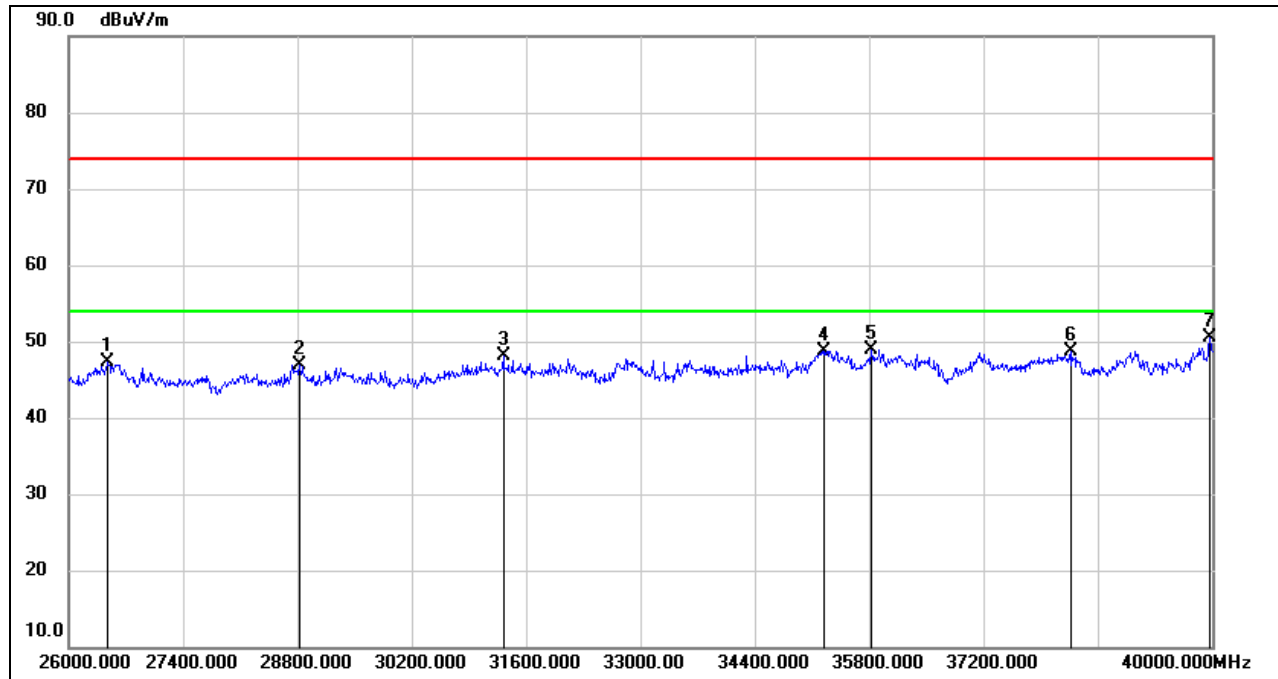


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26490.000	52.79	-4.74	48.05	74.00	-25.95	peak
2	29346.000	48.38	-0.91	47.47	74.00	-26.53	peak
3	32762.000	48.95	-1.21	47.74	74.00	-26.26	peak
4	35366.000	47.40	2.59	49.99	74.00	-24.01	peak
5	37228.000	45.73	3.14	48.87	74.00	-25.13	peak
6	38320.000	45.56	3.77	49.33	74.00	-24.67	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.



SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26476.000	52.03	-4.78	47.25	74.00	-26.75	peak
2	28828.000	47.63	-0.79	46.84	74.00	-27.16	peak
3	31320.000	49.11	-0.93	48.18	74.00	-25.82	peak
4	35254.000	46.12	2.65	48.77	74.00	-25.23	peak
5	35828.000	45.25	3.67	48.92	74.00	-25.08	peak
6	38278.000	44.82	3.82	48.64	74.00	-25.36	peak
7	39972.000	45.45	5.13	50.58	74.00	-23.42	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.

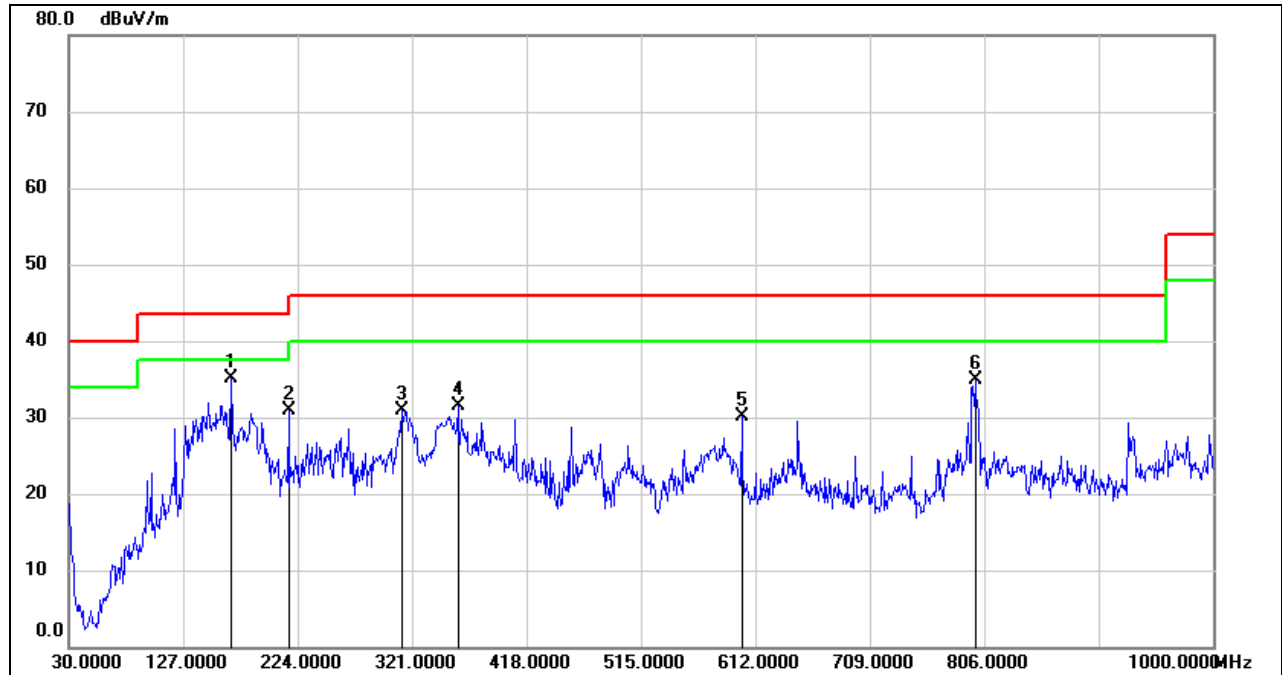
Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

8.6. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.6.1. 802.11a 20 SISO MODE

ANTENNA 2 TEST RESULTS (WORST CASE)

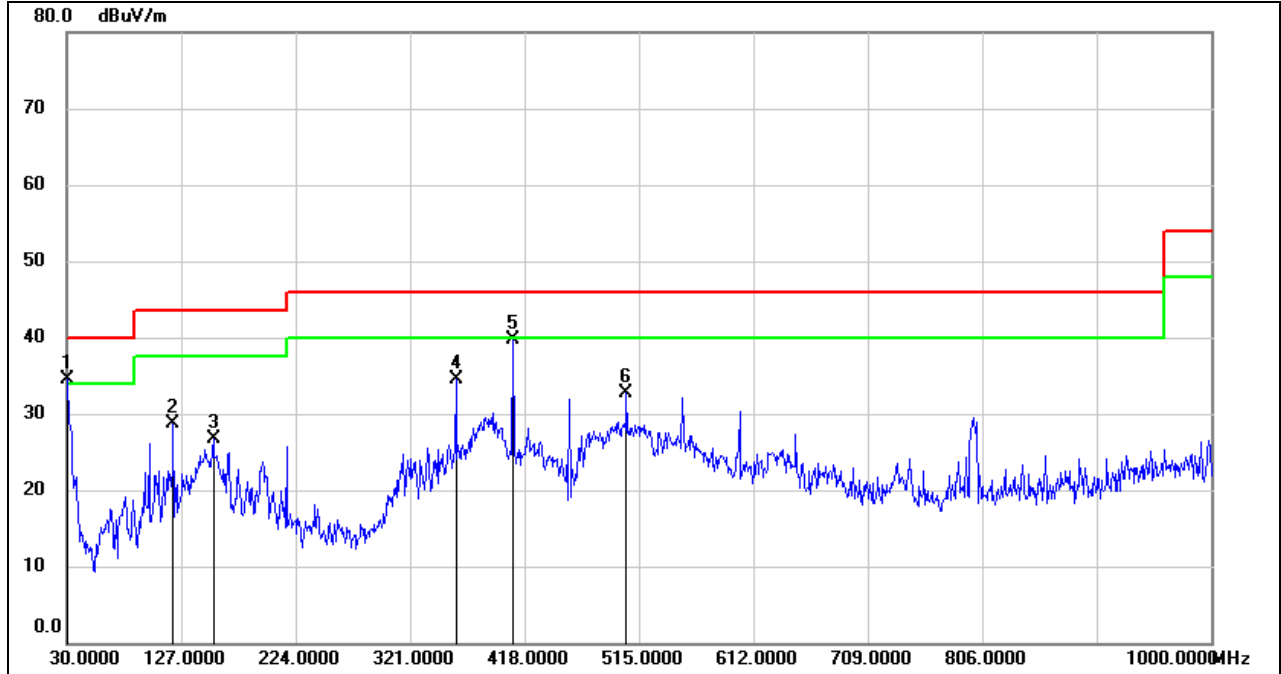
SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	167.7400	52.50	-17.41	35.09	43.50	-8.41	peak
2	216.2400	48.75	-17.84	30.91	46.00	-15.09	peak
3	312.2700	45.85	-15.01	30.84	46.00	-15.16	peak
4	359.8000	45.65	-14.10	31.55	46.00	-14.45	peak
5	600.3600	39.56	-9.54	30.02	46.00	-15.98	peak
6	798.2400	42.23	-7.34	34.89	46.00	-11.11	peak

- Note: 1. Result Level = Read Level + Correct Factor.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	53.57	-19.04	34.53	40.00	-5.47	peak
2	120.2100	48.48	-19.85	28.63	43.50	-14.87	peak
3	154.1600	44.84	-18.06	26.78	43.50	-16.72	peak
4	359.8000	48.61	-14.10	34.51	46.00	-11.49	peak
5	408.3000	52.83	-13.17	39.66	46.00	-6.34	peak
6	504.3300	44.12	-11.37	32.75	46.00	-13.25	peak

- Note: 1. Result Level = Read Level + Correct Factor.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

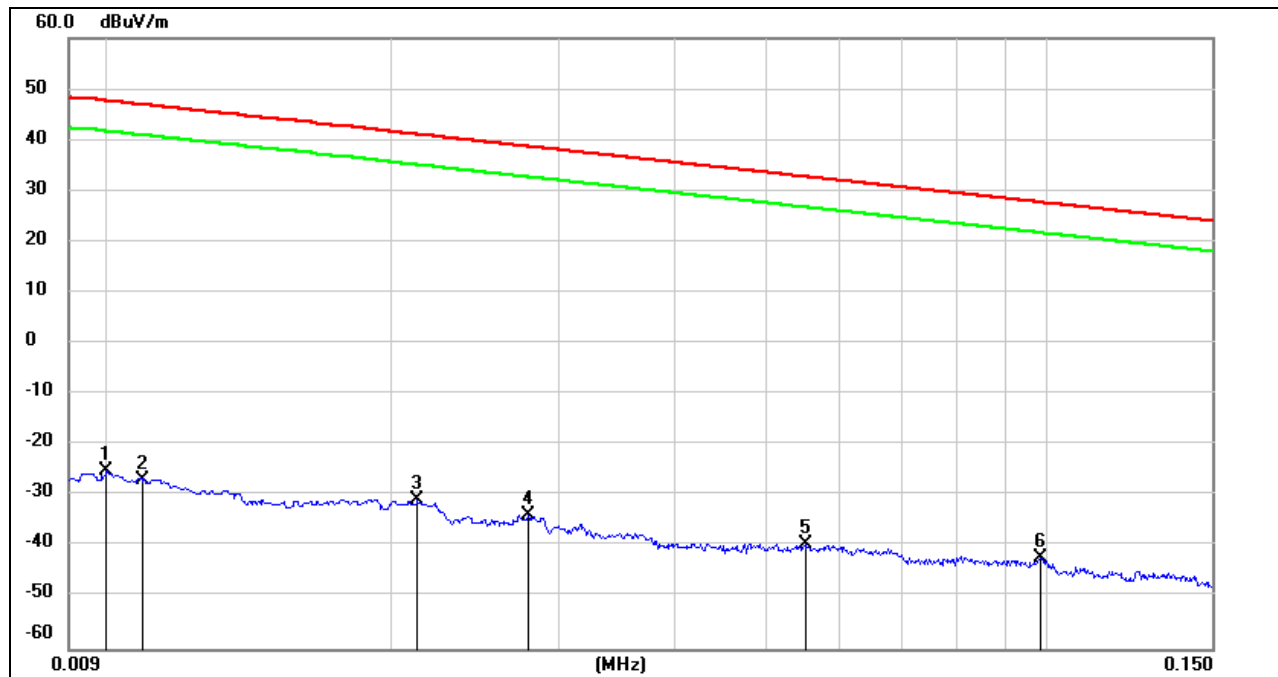
8.7. SPURIOUS EMISSIONS BELOW 30 MHz

8.7.1. 802.11a 20 SISO MODE

ANTENNA 2 TEST RESULTS (WORST CASE)

SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9 kHz ~ 150 kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0100	76.22	-101.40	-25.18	47.60	-72.78	peak
2	0.0108	74.51	-101.39	-26.88	46.93	-73.81	peak
3	0.0212	70.54	-101.35	-30.81	41.07	-71.88	peak
4	0.0279	67.67	-101.38	-33.71	38.69	-72.40	peak
5	0.0551	61.95	-101.50	-39.55	32.78	-72.33	peak
6	0.0985	59.55	-101.78	-42.23	27.73	-69.96	peak

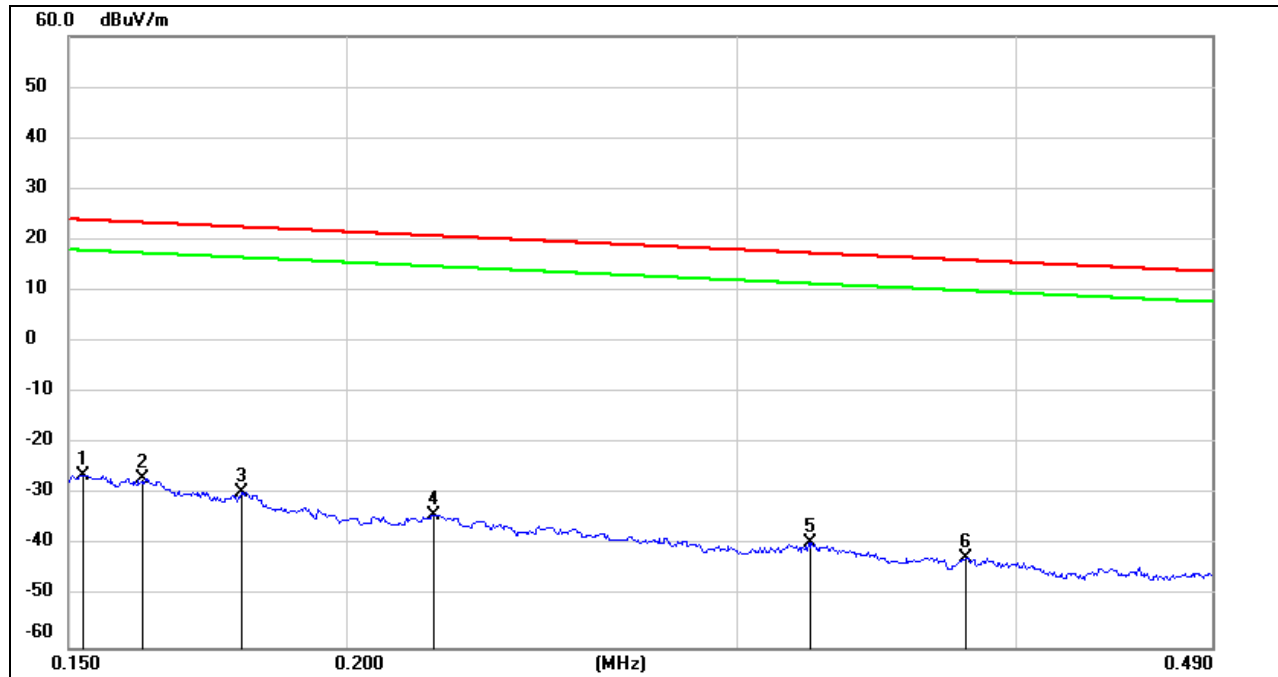
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}(120\pi) = \text{dBuV/m} - 51.5$.

150 kHz ~ 490 kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1524	75.30	-101.63	-26.33	23.94	-50.27	peak
2	0.1621	74.92	-101.65	-26.73	23.41	-50.14	peak
3	0.1794	72.27	-101.68	-29.41	22.53	-51.94	peak
4	0.2190	67.77	-101.75	-33.98	20.79	-54.77	peak
5	0.3234	62.48	-101.88	-39.40	17.41	-56.81	peak
6	0.3800	59.52	-101.94	-42.42	16.01	-58.43	peak

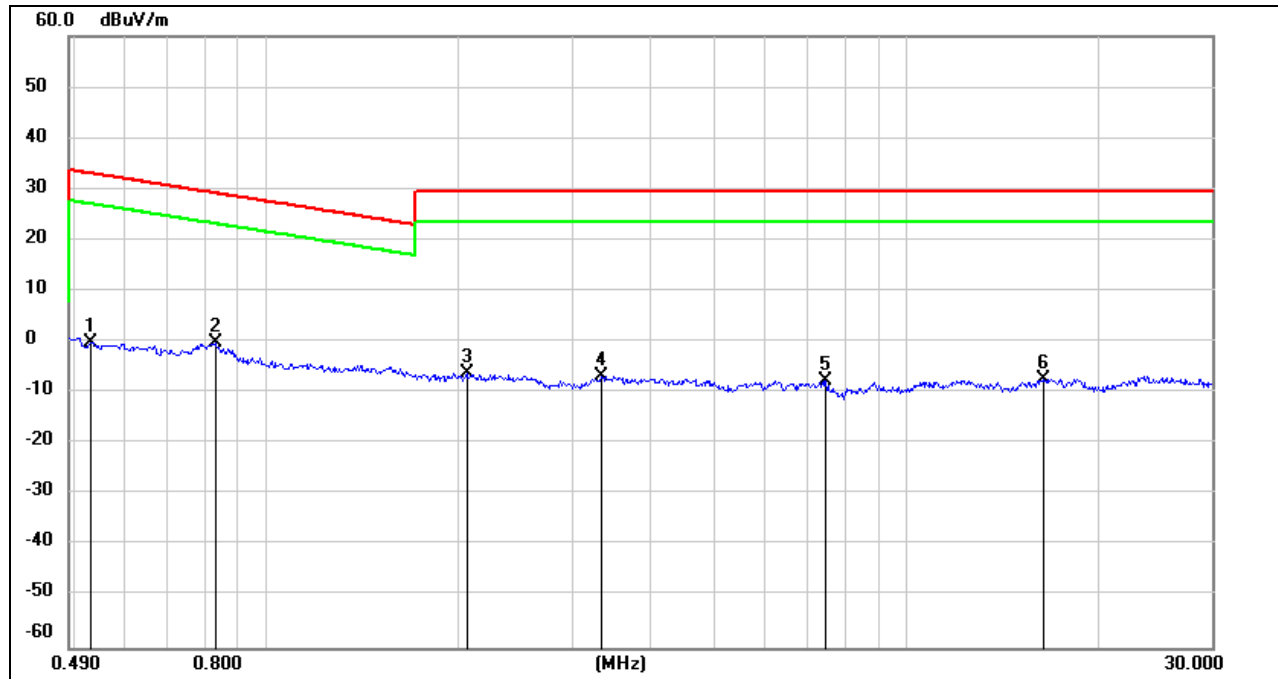
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}(120\pi) = \text{dBuV/m} - 51.5$.

490 kHz ~ 30 MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5298	62.03	-62.08	-0.05	33.12	-33.17	peak
2	0.8296	61.94	-62.17	-0.23	29.23	-29.46	peak
3	2.0539	55.70	-61.81	-6.11	29.54	-35.65	peak
4	3.3334	54.77	-61.50	-6.73	29.54	-36.27	peak
5	7.4839	53.47	-61.15	-7.68	29.54	-37.22	peak
6	16.3959	53.67	-60.96	-7.29	29.54	-36.83	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}(120\pi) = \text{dBuV/m} - 51.5$.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

9. AC POWER LINE CONDUCTED EMISSIONS

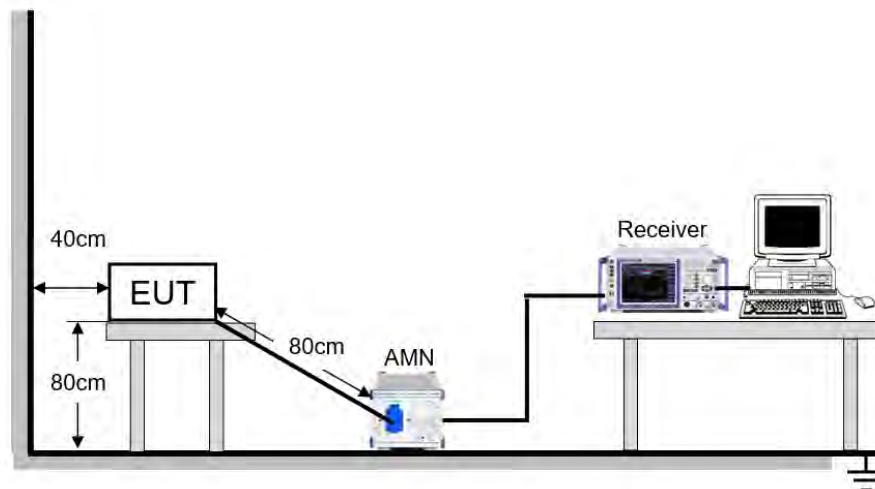
LIMITS

Please refer to CFR 47 FCC §15.207 (a).

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST ENVIRONMENT

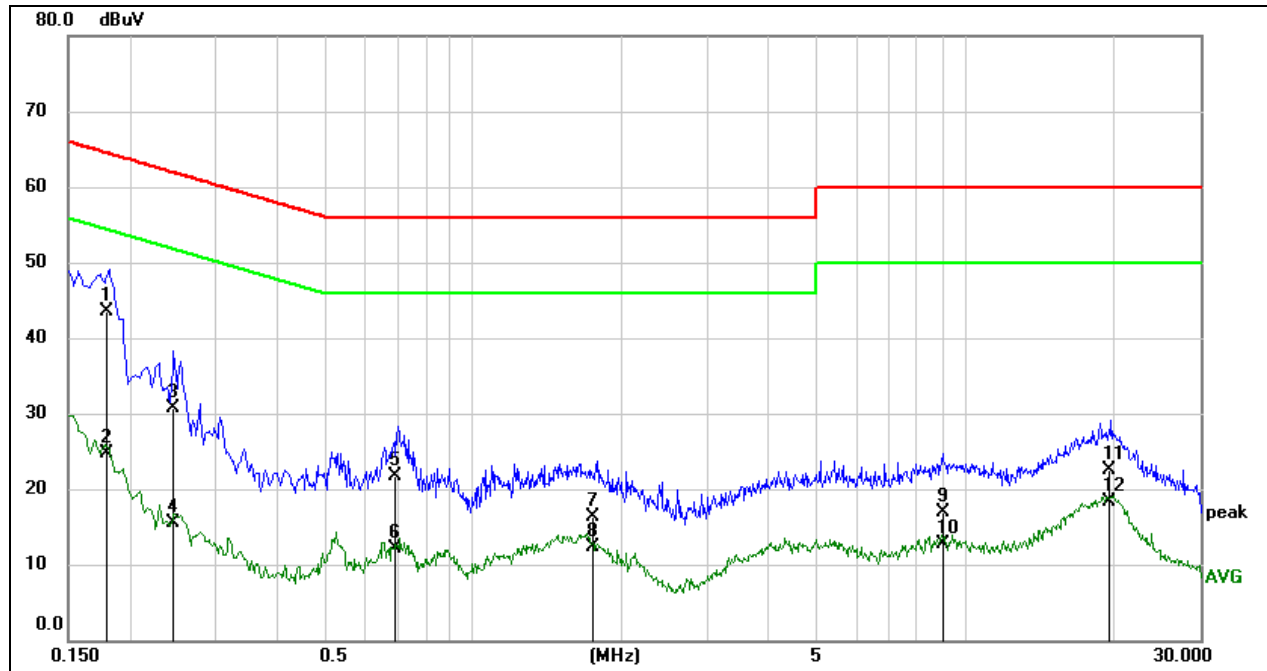
Temperature	23.8 °C	Relative Humidity	72.3 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

9.1.1. 802.11a 20 SISO MODE

ANTENNA 2 TEST RESULTS (WORST CASE)

LINE N RESULTS (UNII-3 BAND MID CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1790	33.83	9.59	43.42	64.53	-21.11	QP
2	0.1790	15.19	9.59	24.78	54.53	-29.75	AVG
3	0.2440	21.18	9.59	30.77	61.96	-31.19	QP
4	0.2440	5.86	9.59	15.45	51.96	-36.51	AVG
5	0.6883	12.03	9.60	21.63	56.00	-34.37	QP
6	0.6883	2.50	9.60	12.10	46.00	-33.90	AVG
7	1.7572	6.60	9.62	16.22	56.00	-39.78	QP
8	1.7572	2.67	9.62	12.29	46.00	-33.71	AVG
9	8.9657	7.29	9.61	16.90	60.00	-43.10	QP
10	8.9657	3.06	9.61	12.67	50.00	-37.33	AVG
11	19.6645	12.62	9.82	22.44	60.00	-37.56	QP
12	19.6645	8.40	9.82	18.22	50.00	-31.78	AVG

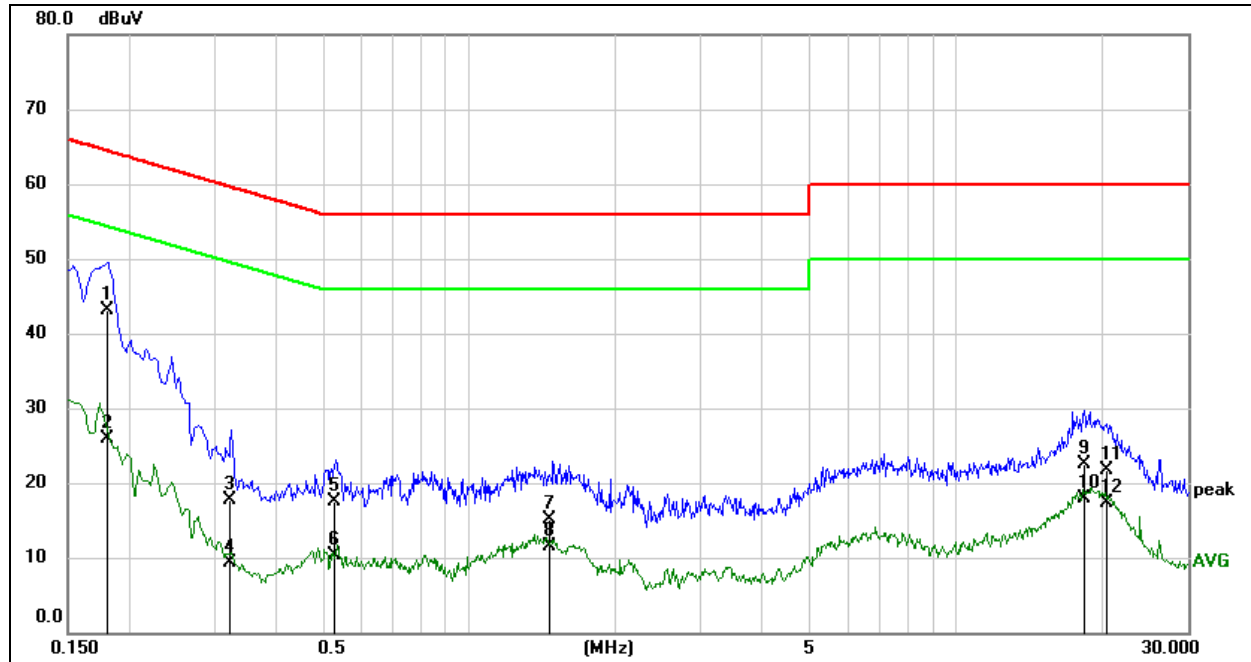
Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

LINE L RESULTS (UNII-2C BAND MID CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1802	33.49	9.59	43.08	64.48	-21.40	QP
2	0.1802	16.41	9.59	26.00	54.48	-28.48	AVG
3	0.3228	8.08	9.59	17.67	59.63	-41.96	QP
4	0.3228	-0.21	9.59	9.38	49.63	-40.25	AVG
5	0.5277	7.86	9.60	17.46	56.00	-38.54	QP
6	0.5277	0.62	9.60	10.22	46.00	-35.78	AVG
7	1.4745	5.57	9.62	15.19	56.00	-40.81	QP
8	1.4745	1.91	9.62	11.53	46.00	-34.47	AVG
9	18.3449	12.81	9.78	22.59	60.00	-37.41	QP
10	18.3449	8.22	9.78	18.00	50.00	-32.00	AVG
11	20.3205	11.82	9.84	21.66	60.00	-38.34	QP
12	20.3205	7.43	9.84	17.27	50.00	-32.73	AVG

Note: 1. Result = Reading + Correct Factor.
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes had been tested, but only the worst data was recorded in the report.

10. FREQUENCY STABILITY

LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

TEST PROCEDURE

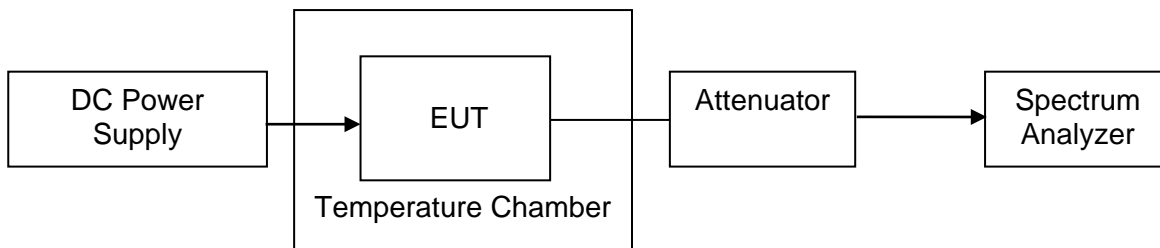
1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between 0 °C ~ 70 °C (declared by customer).
2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST SETUP





TEST ENVIRONMENT

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	20 % - 75 %	/
Atmospheric Pressure	100 kPa ~102 kPa	/
Temperature	T _N (Normal Temperature): 25.1 °C	T _L (Low Temperature): 0 °C
		T _H (High Temperature): 70 °C
Supply Voltage	V _N (Normal Voltage): AC 120 V	V _L (Low Voltage): AC 102 V
		V _H (High Voltage): DC 138 V

RESULTS

Please refer to Appendix E.

11. DYNAMIC FREQUENCY SELECTION

APPLICABILITY OF DFS REQUIREMENTS

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	<input type="checkbox"/> Master	<input checked="" type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

LIMITS

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
 Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
 Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

PARAMETERS OF RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

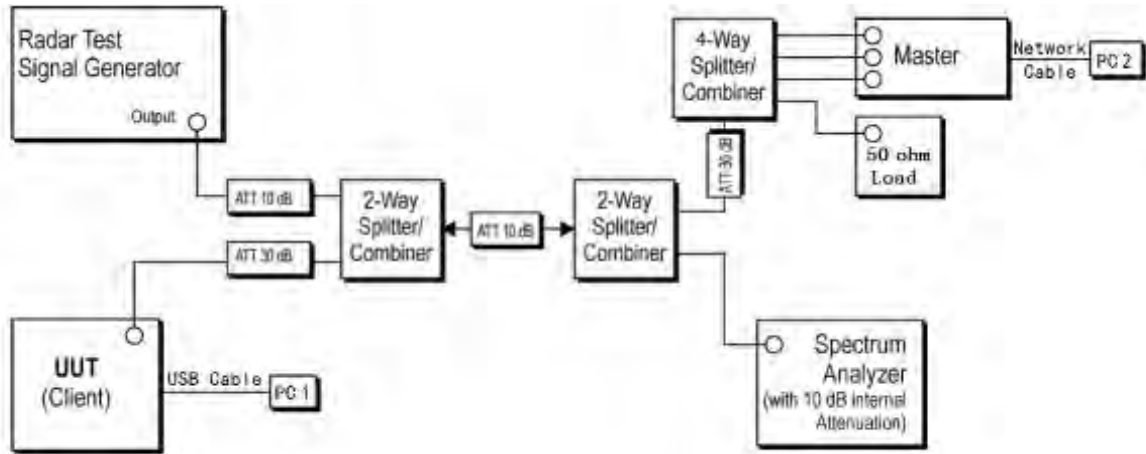
Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\{ \frac{1}{360} \right\}$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
<p>Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.</p> <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A</p>					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4.

TEST SETUP

Setup for Client with injection at the Master



TEST ENVIRONMENT

Temperature	24.1 °C	Relative Humidity	60.5 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to Appendix F.



12. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies

**12.1. Appendix A1: Emission Bandwidth****12.1.1. Test Result**

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A 20	Ant1	5180	19.240	5170.400	5189.640	PASS
	Ant2	5180	19.640	5170.320	5189.960	PASS
	Ant1	5200	19.640	5190.200	5209.840	PASS
	Ant2	5200	19.720	5190.240	5209.960	PASS
	Ant1	5240	19.840	5230.160	5250.000	PASS
	Ant2	5240	20.000	5229.920	5249.920	PASS
	Ant1	5260	19.320	5250.240	5269.560	PASS
	Ant2	5260	19.800	5250.120	5269.920	PASS
	Ant1	5280	19.640	5270.400	5290.040	PASS
	Ant2	5280	19.640	5270.240	5289.880	PASS
	Ant1	5320	20.120	5309.960	5330.080	PASS
	Ant2	5320	19.560	5310.240	5329.800	PASS
	Ant1	5500	19.840	5490.400	5510.240	PASS
	Ant2	5500	19.960	5490.200	5510.160	PASS
	Ant1	5580	20.280	5570.080	5590.360	PASS
	Ant2	5580	19.760	5570.120	5589.880	PASS
	Ant1	5700	20.040	5690.000	5710.040	PASS
	Ant2	5700	19.880	5690.160	5710.040	PASS
	Ant1	5720	19.680	5710.160	5729.840	PASS
	Ant2	5720	19.720	5710.120	5729.840	PASS
	Ant1	5720_UNII-2C	14.84	5710.160	5725	PASS
	Ant2	5720_UNII-2C	14.88	5710.120	5725	PASS
	Ant1	5720_UNII-3	4.84	5725	5729.840	PASS
	Ant2	5720_UNII-3	4.84	5725	5729.840	PASS
	Ant1	5745	19.920	5735.000	5754.920	PASS
	Ant2	5745	19.720	5735.040	5754.760	PASS
	Ant1	5785	20.120	5774.920	5795.040	PASS
	Ant2	5785	20.160	5775.200	5795.360	PASS
	Ant1	5825	19.880	5815.040	5834.920	PASS
	Ant2	5825	19.800	5815.200	5835.000	PASS
11N20MIMO	Ant1	5180	20.240	5169.960	5190.200	PASS
	Ant2	5180	19.960	5170.000	5189.960	PASS
	Ant1	5200	19.680	5190.400	5210.080	PASS
	Ant2	5200	20.080	5190.120	5210.200	PASS
	Ant1	5240	20.160	5229.840	5250.000	PASS
	Ant2	5240	19.520	5230.360	5249.880	PASS
	Ant1	5260	20.080	5250.120	5270.200	PASS
	Ant2	5260	20.160	5250.040	5270.200	PASS
	Ant1	5280	20.080	5270.040	5290.120	PASS
	Ant2	5280	20.120	5269.920	5290.040	PASS
	Ant1	5320	20.040	5310.240	5330.280	PASS
	Ant2	5320	19.960	5310.160	5330.120	PASS
	Ant1	5500	19.840	5490.280	5510.120	PASS
	Ant2	5500	19.760	5490.160	5509.920	PASS
	Ant1	5580	20.040	5570.040	5590.080	PASS
	Ant2	5580	19.880	5570.000	5589.880	PASS
	Ant1	5700	20.040	5690.160	5710.200	PASS
	Ant2	5700	20.120	5690.000	5710.120	PASS
	Ant1	5720	20.320	5710.040	5730.360	PASS
	Ant2	5720	20.160	5710.280	5730.440	PASS
	Ant1	5720_UNII-2C	14.96	5710.040	5725	PASS
	Ant2	5720_UNII-2C	14.72	5710.280	5725	PASS
	Ant1	5720_UNII-3	5.36	5725	5730.360	PASS
	Ant2	5720_UNII-3	5.44	5725	5730.440	PASS



	Ant1	5745	19.920	5735.160	5755.080	PASS
	Ant2	5745	20.080	5735.120	5755.200	PASS
	Ant1	5785	20.080	5775.120	5795.200	PASS
	Ant2	5785	20.040	5775.120	5795.160	PASS
	Ant1	5825	20.360	5814.880	5835.240	PASS
	Ant2	5825	19.680	5815.080	5834.760	PASS
11N40MIMO	Ant1	5190	40.160	5170.160	5210.320	PASS
	Ant2	5190	38.720	5170.800	5209.520	PASS
	Ant1	5230	40.080	5210.240	5250.320	PASS
	Ant2	5230	40.240	5210.080	5250.320	PASS
	Ant1	5270	40.320	5250.080	5290.400	PASS
	Ant2	5270	39.760	5250.320	5290.080	PASS
	Ant1	5310	40.240	5290.000	5330.240	PASS
	Ant2	5310	39.680	5290.560	5330.240	PASS
	Ant1	5510	39.680	5490.400	5530.080	PASS
	Ant2	5510	39.520	5490.320	5529.840	PASS
	Ant1	5550	40.640	5529.840	5570.480	PASS
	Ant2	5550	40.400	5530.240	5570.640	PASS
	Ant1	5670	40.640	5649.920	5690.560	PASS
	Ant2	5670	40.080	5650.080	5690.160	PASS
	Ant1	5710	40.480	5689.760	5730.240	PASS
	Ant2	5710	40.480	5689.920	5730.400	PASS
	Ant1	5710_UNII-2C	35.24	5689.760	5725	PASS
	Ant2	5710_UNII-2C	35.08	5689.920	5725	PASS
	Ant1	5710_UNII-3	5.24	5725	5730.240	PASS
	Ant2	5710_UNII-3	5.4	5725	5730.400	PASS
	Ant1	5755	40.080	5735.000	5775.080	PASS
	Ant2	5755	39.600	5735.480	5775.080	PASS
	Ant1	5795	40.320	5775.000	5815.320	PASS
	Ant2	5795	40.240	5774.920	5815.160	PASS
11AC80MIMO	Ant1	5210	80.640	5170.160	5250.800	PASS
	Ant2	5210	79.520	5170.160	5249.680	PASS
	Ant1	5290	79.680	5249.840	5329.520	PASS
	Ant2	5290	80.000	5249.360	5329.360	PASS
	Ant1	5530	79.040	5490.640	5569.680	PASS
	Ant2	5530	79.360	5490.480	5569.840	PASS
	Ant1	5610	80.320	5569.520	5649.840	PASS
	Ant2	5610	79.200	5570.320	5649.520	PASS
	Ant1	5690	80.320	5649.840	5730.160	PASS
	Ant2	5690	79.360	5650.640	5730.000	PASS
	Ant1	5690_UNII-2C	75.16	5649.840	5725	PASS
	Ant2	5690_UNII-2C	74.36	5650.640	5725	PASS
	Ant1	5690_UNII-3	5.16	5725	5730.160	PASS
	Ant2	5690_UNII-3	5	5725	5730.000	PASS
	Ant1	5775	79.840	5735.320	5815.160	PASS
	Ant2	5775	95.840	5719.320	5815.160	PASS

12.1.2. Test Graphs





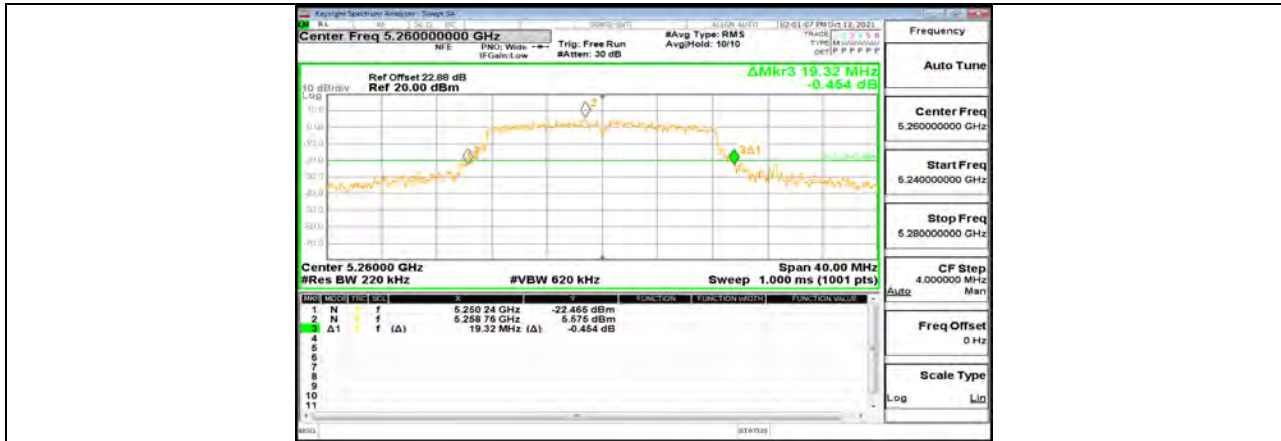
11A_Ant2_5200



11A_Ant1_5240



11A_Ant2_5240



11A_Ant1_5260



11A_Ant2_5260



11A_Ant1_5280



11A_Ant2_5280



11A_Ant1_5320



11A_Ant2_5320



11A_Ant1_5500



11A_Ant2_5500



11A_Ant1_5580



11A_Ant2_5580



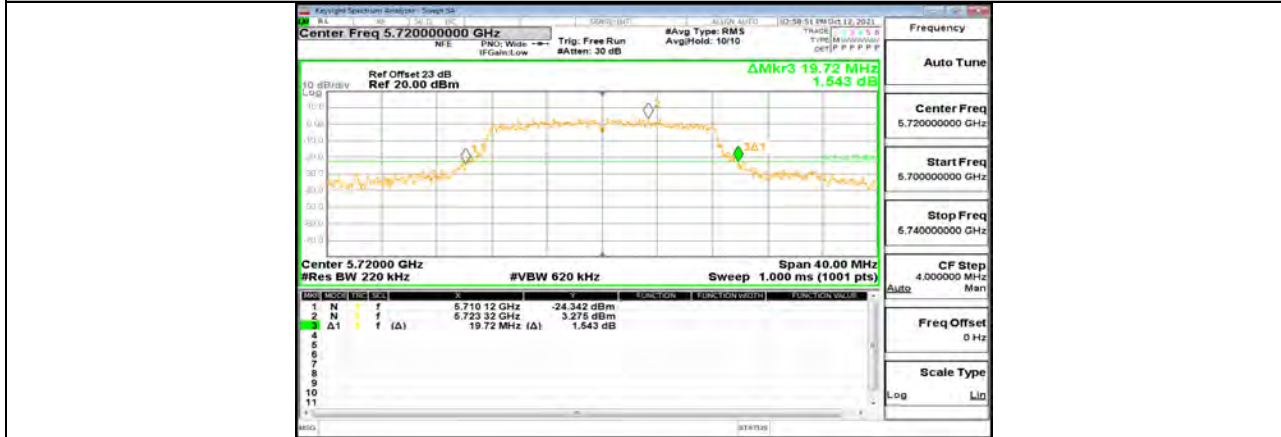
11A_Ant1_5700



11A_Ant2_5700



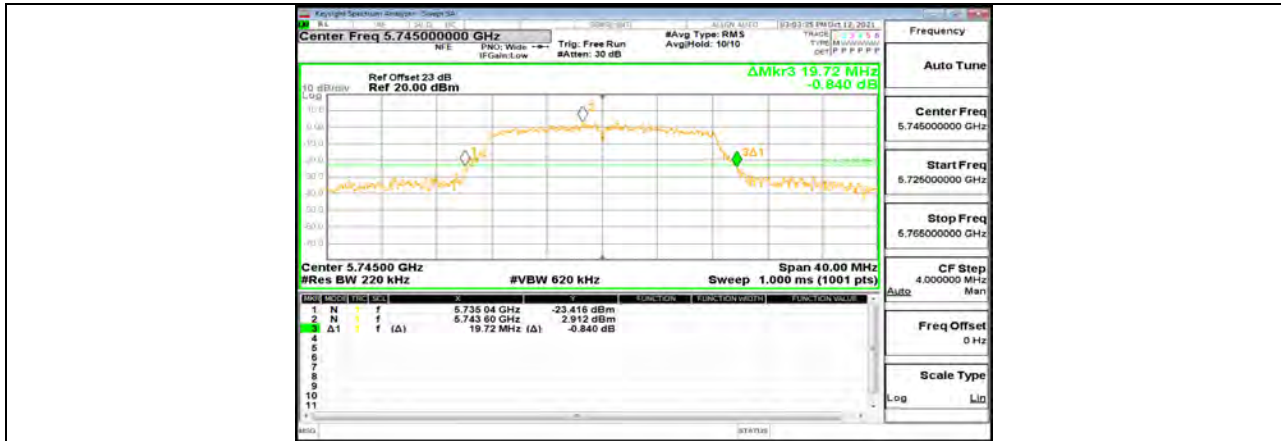
11A_Ant1_5720



11A_Ant2_5720



11A_Ant1_5745



11A_Ant2_5745



11A_Ant1_5785



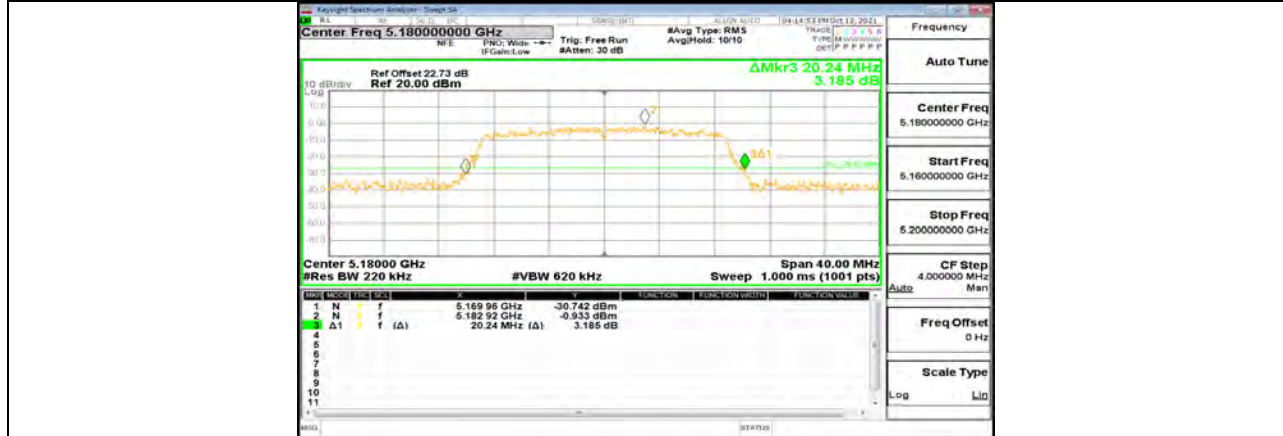
11A_Ant2_5785



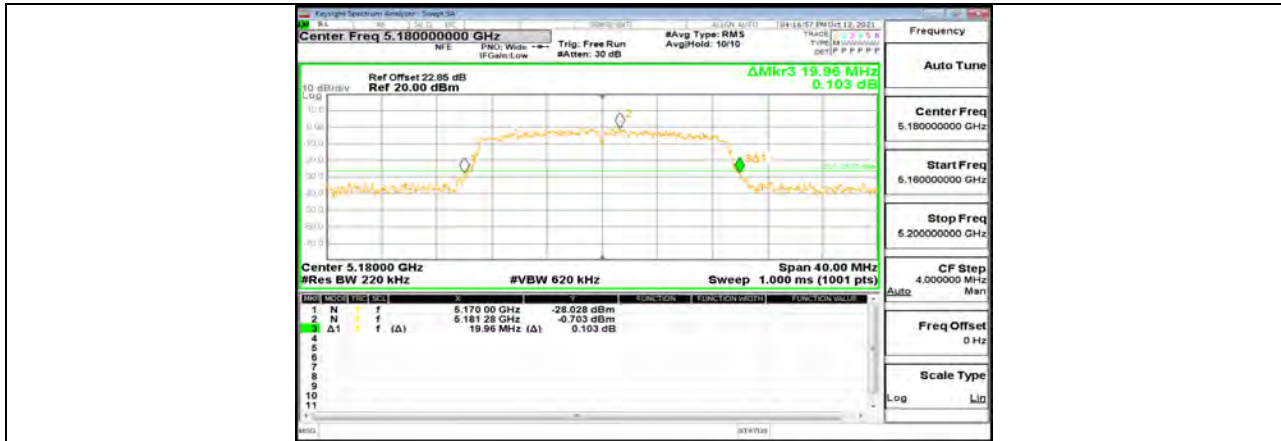
11A_Ant1_5825



11A_Ant2_5825



11N20MIMO_Ant1_5180



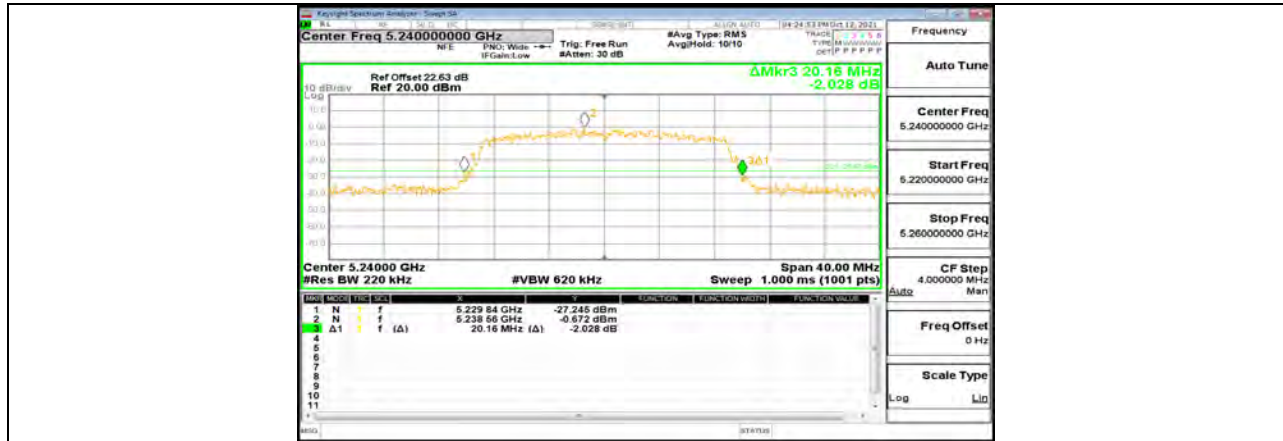
11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240



11N20MIMO_Ant1_5260



11N20MIMO_Ant2_5260



11N20MIMO_Ant1_5280



11N20MIMO_Ant2_5280



11N20MIMO_Ant1_5320



11N20MIMO_Ant2_5320



11N20MIMO_Ant1_5500



11N20MIMO_Ant2_5500



11N20MIMO_Ant1_5580



11N20MIMO_Ant2_5580



11N20MIMO_Ant1_5700



11N20MIMO_Ant2_5700



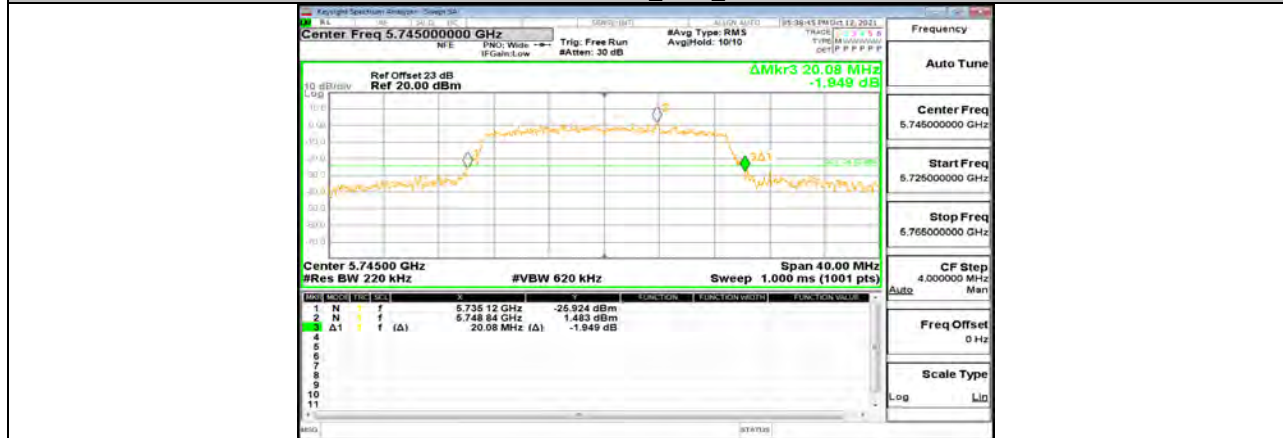
11N20MIMO_Ant1_5720



11N20MIMO_Ant2_5720



11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



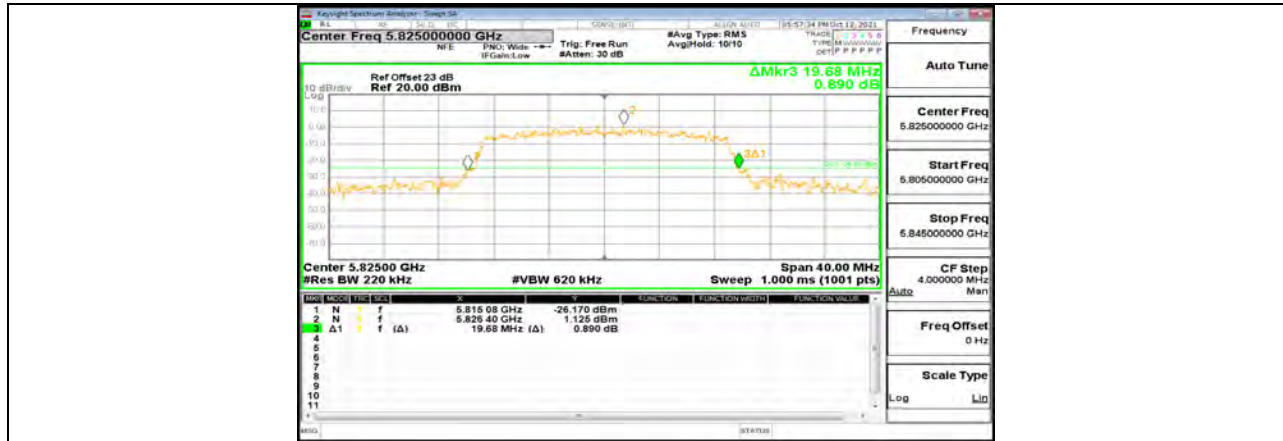
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11N20MIMO_Ant2_5785



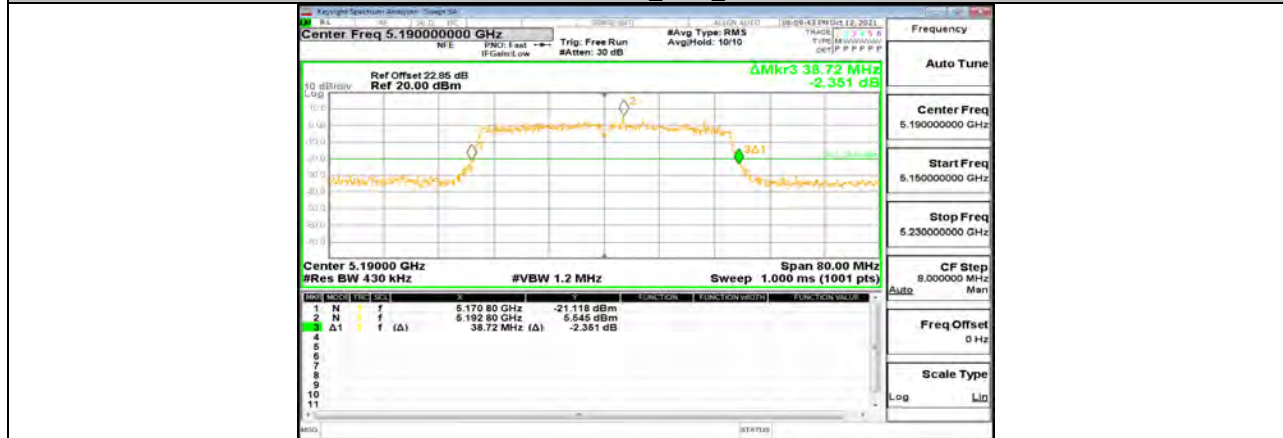
11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5190



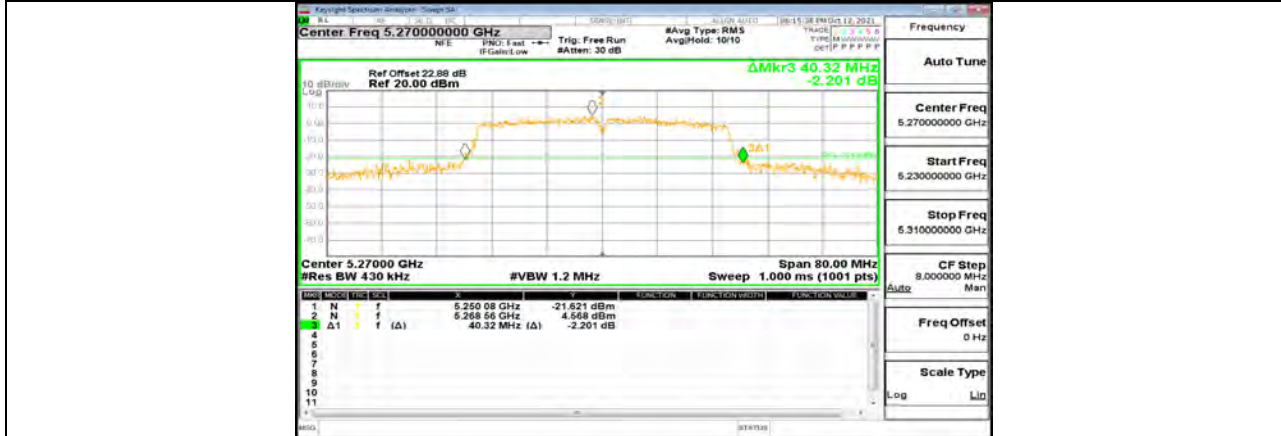
11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



11N40MIMO_Ant1_5270



11N40MIMO_Ant2_5270



11N40MIMO_Ant1_5310



11N40MIMO_Ant2_5310



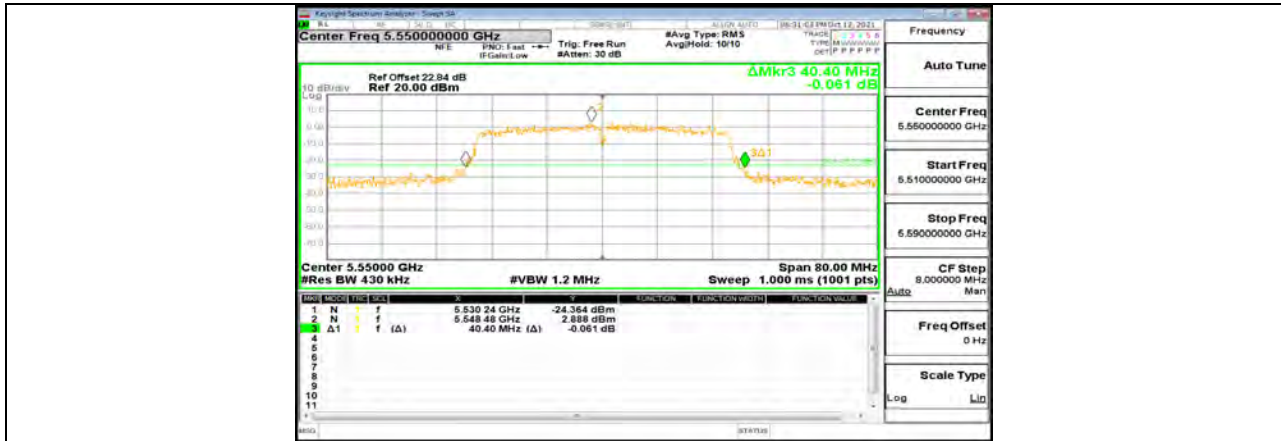
11N40MIMO_Ant1_5510



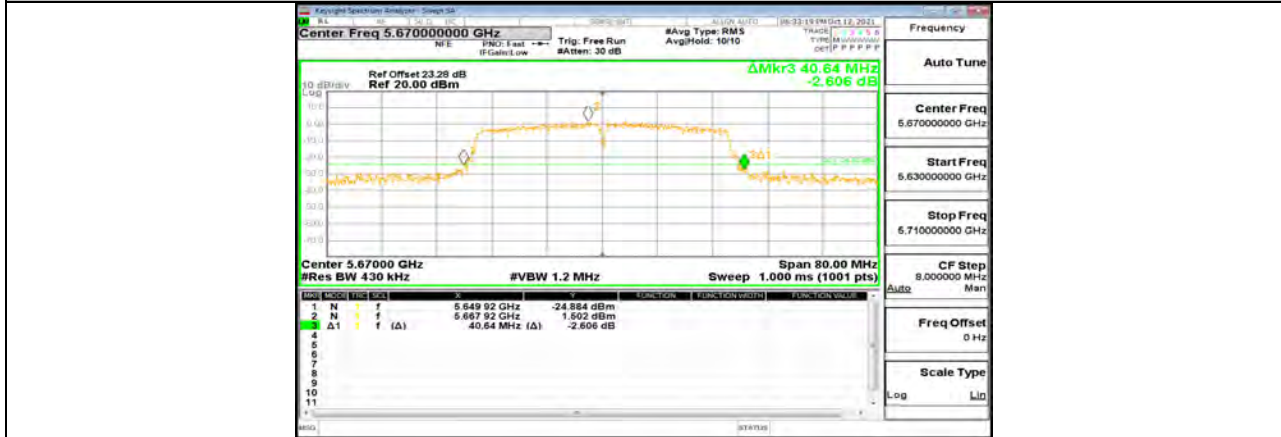
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11N40MIMO_Ant1_5550



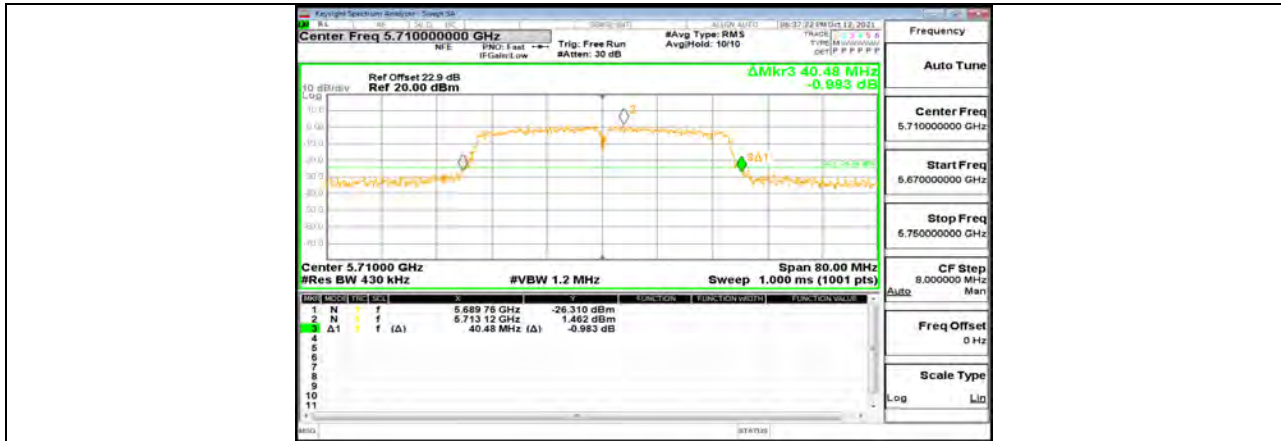
11N40MIMO_Ant2_5550



11N40MIMO_Ant1_5670



11N40MIMO_Ant2_5670



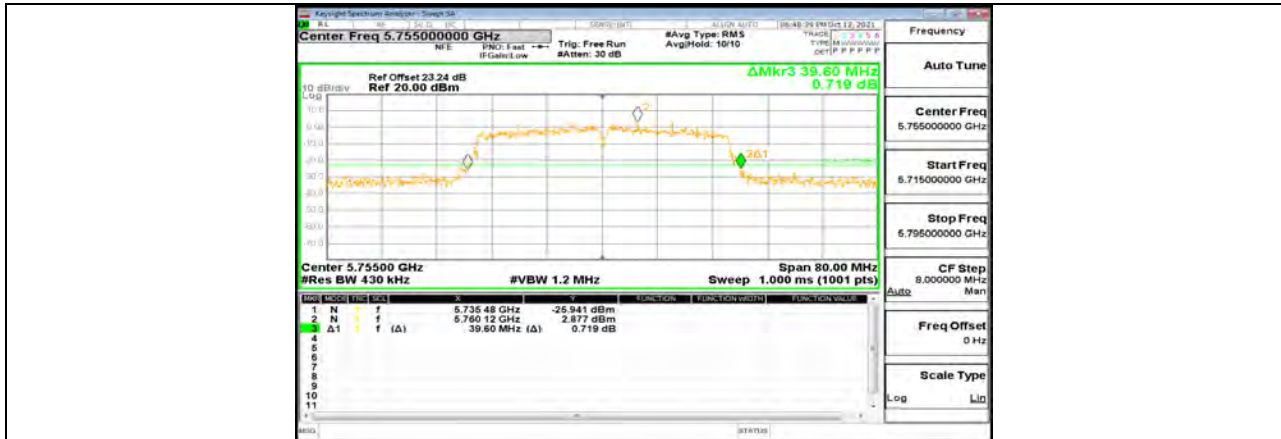
11N40MIMO_Ant1_5710



11N40MIMO_Ant2_5710



11N40MIMO_Ant1_5755



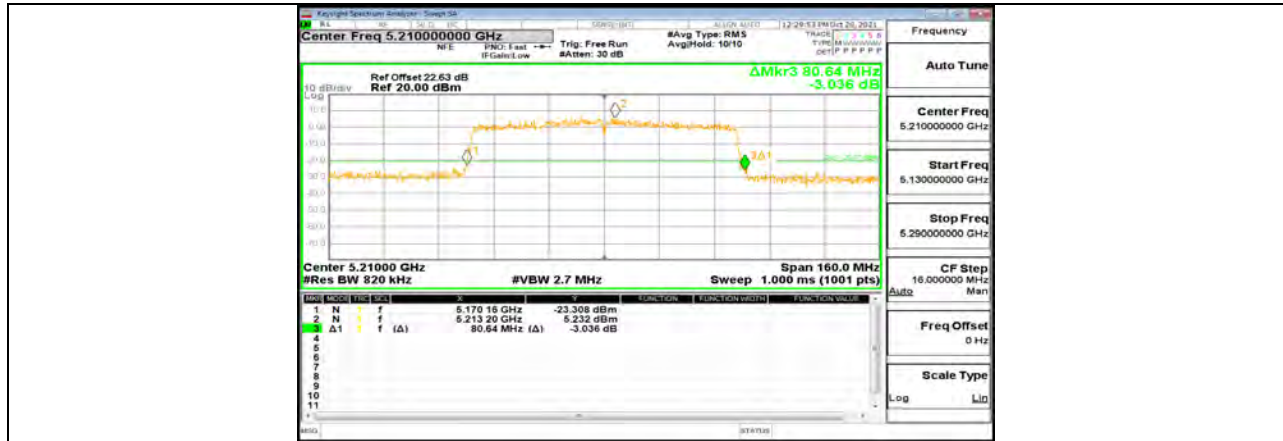
11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



11AC80MIMO_Ant1_5290

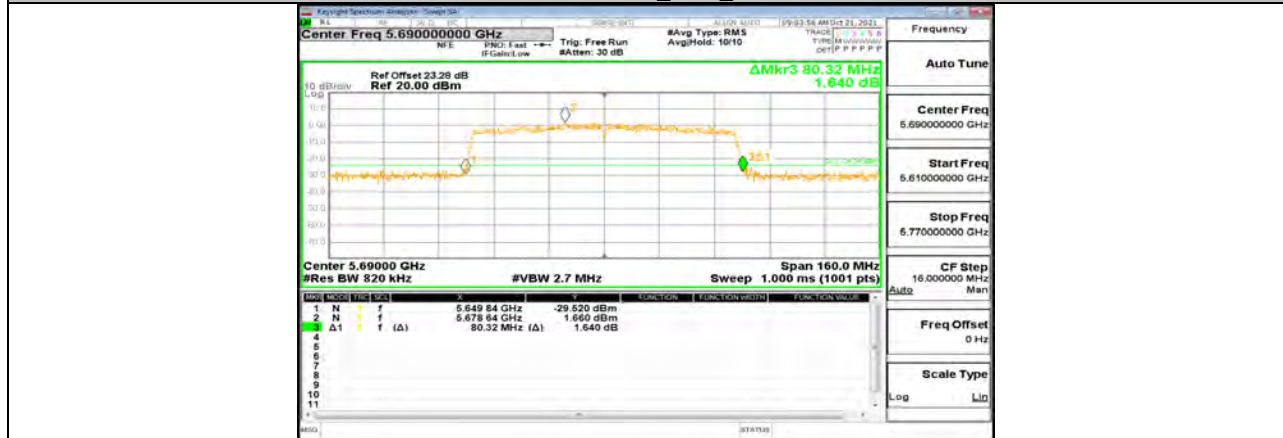




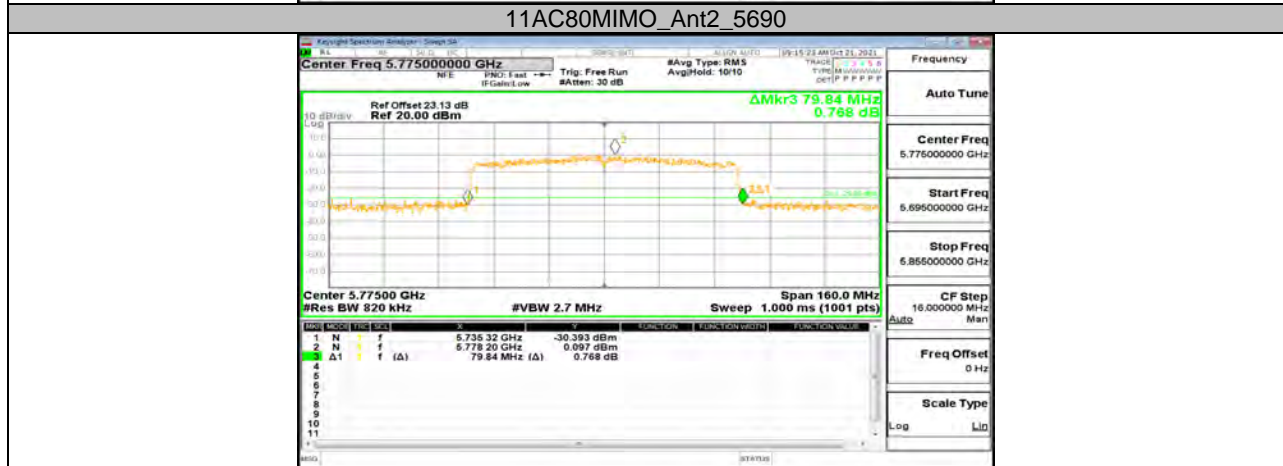
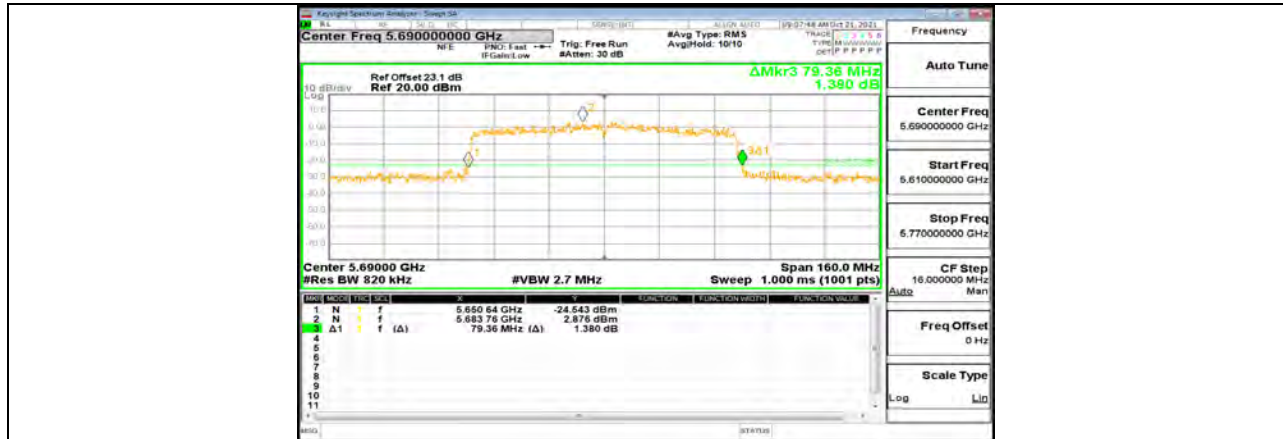
11AC80MIMO_Ant1_5610



11AC80MIMO_Ant2_5610



11AC80MIMO_Ant1_5690



**12.2. Appendix A2: Occupied Channel Bandwidth****12.2.1. Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A 20	Ant1	5180	16.732	5171.663	5188.395	PASS
	Ant2	5180	16.544	5171.719	5188.263	PASS
	Ant1	5200	16.602	5191.717	5208.319	PASS
	Ant2	5200	16.662	5191.677	5208.339	PASS
	Ant1	5240	16.692	5231.643	5248.335	PASS
	Ant2	5240	16.518	5231.777	5248.295	PASS
	Ant1	5260	17.232	5251.378	5268.610	PASS
	Ant2	5260	16.690	5251.665	5268.355	PASS
	Ant1	5280	17.193	5271.449	5288.642	PASS
	Ant2	5280	16.740	5271.624	5288.364	PASS
	Ant1	5320	16.804	5311.677	5328.481	PASS
	Ant2	5320	16.610	5311.692	5328.302	PASS
	Ant1	5500	16.520	5491.761	5508.281	PASS
	Ant2	5500	16.594	5491.741	5508.335	PASS
	Ant1	5580	16.677	5571.732	5588.409	PASS
	Ant2	5580	16.562	5571.746	5588.308	PASS
	Ant1	5700	16.567	5691.682	5708.249	PASS
	Ant2	5700	16.742	5691.636	5708.378	PASS
	Ant1	5720	16.599	5711.749	5728.348	PASS
	Ant2	5720	16.592	5711.734	5728.326	PASS
	Ant1	5720_UNII-2C	13.251	5711.749	5725	PASS
	Ant2	5720_UNII-2C	13.266	5711.734	5725	PASS
	Ant1	5720_UNII-3	3.348	5725	5728.348	PASS
	Ant2	5720_UNII-3	3.326	5725	5728.326	PASS
	Ant1	5745	18.775	5735.758	5754.533	PASS
	Ant2	5745	16.576	5736.743	5753.319	PASS
	Ant1	5785	16.692	5776.721	5793.413	PASS
	Ant2	5785	16.483	5776.800	5793.283	PASS
Ant1	5825	16.687	5816.639	5833.326	PASS	
Ant2	5825	16.587	5816.733	5833.320	PASS	
11N20MIMO	Ant1	5180	17.729	5171.146	5188.875	PASS
	Ant2	5180	17.704	5171.198	5188.902	PASS
	Ant1	5200	17.676	5191.249	5208.925	PASS
	Ant2	5200	17.728	5191.221	5208.949	PASS
	Ant1	5240	17.740	5231.216	5248.956	PASS
	Ant2	5240	17.629	5231.221	5248.850	PASS
	Ant1	5260	17.672	5251.229	5268.901	PASS
	Ant2	5260	17.793	5251.197	5268.990	PASS
	Ant1	5280	17.784	5271.177	5288.961	PASS
	Ant2	5280	17.790	5271.185	5288.975	PASS
	Ant1	5320	17.748	5311.165	5328.913	PASS
	Ant2	5320	17.699	5311.251	5328.950	PASS
	Ant1	5500	17.732	5491.191	5508.923	PASS
	Ant2	5500	17.622	5491.240	5508.862	PASS
	Ant1	5580	17.719	5571.151	5588.870	PASS
	Ant2	5580	17.617	5571.263	5588.880	PASS
	Ant1	5700	17.681	5691.201	5708.882	PASS
	Ant2	5700	17.635	5691.230	5708.865	PASS
	Ant1	5720	17.707	5711.226	5728.933	PASS
	Ant2	5720	17.681	5711.265	5728.946	PASS
Ant1	5720_UNII-2C	13.774	5711.226	5725	PASS	
Ant2	5720_UNII-2C	13.735	5711.265	5725	PASS	



	Ant1	5720_UNII-3	3.933	5725	5728.933	PASS
	Ant2	5720_UNII-3	3.946	5725	5728.946	PASS
	Ant1	5745	17.722	5736.233	5753.955	PASS
	Ant2	5745	17.630	5736.264	5753.894	PASS
	Ant1	5785	17.750	5776.216	5793.966	PASS
	Ant2	5785	17.702	5776.230	5793.932	PASS
	Ant1	5825	17.786	5816.218	5834.004	PASS
	Ant2	5825	17.694	5816.244	5833.938	PASS
11N40MIMO	Ant1	5190	36.107	5172.059	5208.166	PASS
	Ant2	5190	36.029	5172.067	5208.096	PASS
	Ant1	5230	36.147	5212.032	5248.179	PASS
	Ant2	5230	36.092	5212.084	5248.176	PASS
	Ant1	5270	36.086	5252.065	5288.151	PASS
	Ant2	5270	36.156	5252.100	5288.256	PASS
	Ant1	5310	36.219	5292.014	5328.233	PASS
	Ant2	5310	36.037	5292.126	5328.163	PASS
	Ant1	5510	36.075	5492.049	5528.124	PASS
	Ant2	5510	36.118	5492.153	5528.271	PASS
	Ant1	5550	36.204	5532.016	5568.220	PASS
	Ant2	5550	36.114	5532.059	5568.173	PASS
	Ant1	5670	36.121	5651.998	5688.119	PASS
	Ant2	5670	36.154	5652.052	5688.206	PASS
	Ant1	5710	36.157	5692.030	5728.187	PASS
	Ant2	5710	36.328	5691.969	5728.297	PASS
	Ant1	5710_UNII-2C	32.97	5692.030	5725	PASS
	Ant2	5710_UNII-2C	33.031	5691.969	5725	PASS
	Ant1	5710_UNII-3	3.187	5725	5728.187	PASS
	Ant2	5710_UNII-3	3.297	5725	5728.297	PASS
	Ant1	5755	36.218	5737.008	5773.226	PASS
	Ant2	5755	36.145	5737.091	5773.236	PASS
	Ant1	5795	36.267	5776.984	5813.251	PASS
	Ant2	5795	36.157	5777.069	5813.226	PASS
11AC80MIMO	Ant1	5210	75.585	5172.317	5247.902	PASS
	Ant2	5210	75.463	5172.207	5247.670	PASS
	Ant1	5290	75.609	5252.068	5327.677	PASS
	Ant2	5290	75.416	5252.239	5327.655	PASS
	Ant1	5530	75.751	5492.134	5567.885	PASS
	Ant2	5530	75.437	5492.314	5567.751	PASS
	Ant1	5610	75.670	5572.114	5647.784	PASS
	Ant2	5610	75.525	5572.235	5647.760	PASS
	Ant1	5690	75.707	5652.120	5727.827	PASS
	Ant2	5690	75.713	5652.310	5728.023	PASS
	Ant1	5690_UNII-2C	72.88	5652.120	5725	PASS
	Ant2	5690_UNII-2C	72.69	5652.310	5725	PASS
	Ant1	5690_UNII-3	2.827	5725	5727.827	PASS
	Ant2	5690_UNII-3	3.023	5725	5728.023	PASS
		Ant1	5775	75.796	5737.311	5813.107
	Ant2	5775	75.590	5737.432	5813.022	PASS