



**FCC 47 CFR PART 15 SUBPART C**

**CERTIFICATION TEST REPORT**

*For*

**NAVIGATOR X1100**

**MODEL NUMBER: DHI-UAV-Aircraft-X1100**

**FCC ID: SVNX1100**

**REPORT NUMBER: 4788510935-8**

**ISSUE DATE: July 30, 2018**

*Prepared for*

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	07/30/2018	Initial Issue	



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# 1. ATTESTATION OF TEST RESULTS

## Applicant Information


Company Name: Zhejiang Dahua Vision Technology Co., Ltd.  
Address: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

## Manufacturer Information

Company Name: Zhejiang Dahua Vision Technology Co., Ltd.  
Address: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

## Factory Information

Company Name: Zhejiang Dahua Vision Technology Co., Ltd.  
Address: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

EUT Name: NAVIGATOR X1100  
Brand:   
Model: DHI-UAV-Aircraft-X1100  
Serial Model: See chapter 5.1  
Sample Received Date: May 26, 2018  
Date of Tested: July 01, 2018 ~ July 26,2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

Prepared By:

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Laboratory Leader

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## 2.TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15 and ANSI C63.10-2013.

## 3.FACILITIES AND ACCREDITATION

Accreditation Certificate	<p><b>A2LA (Certificate No.: 4102.01)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>IAS (Lab Code: TL-702)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has demonstrated compliance with ISO/IEC Standard 17025:2005, General requirements for the competence of testing and calibration laboratories</p> <p><b>FCC (FCC Designation No.: CN1187)</b> 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><b>IC(Company No.: 21320)</b> 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.</p> <p><b>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)</b> 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
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.
3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OATS.



## 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 recognized 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
Uncertainty for Conduction emission test	2.90dB
Uncertainty for Radiation Emission test(include Fundamental emission) (9KHz-30MHz)	2.2dB
Uncertainty for Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	4.52dB
Uncertainty for Radiation Emission test (1GHz to 26GHz)( include Fundamental emission)	5.04dB(1-6GHz)
	5.30dB (6GHz-18Gz)
	5.23dB (18GHz-26Gz)
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.DESCRPTION OF EUT

Equipment	NAVIGATOR X1100
Model Name	DHI-UAV-Aircraft-X1100
Series Model	DHI-UAV-Aircraft-X1100-1023, DHI-UAV-Aircraft-X1100-1033, UAV-Aircraft-X1100-1023, UAV-Aircraft-X1100-1033, UAV-Aircraft-X1100, DHI-UAV-Aircraft-X1100, OEM-Aircraft-X1100
Model Difference	All the same except for the appearance of the different color and graphic pattern.
Operation frequency	2413MHz~2475MHz
Modulation	QPSK, OFDM
Bandwidth	10M/20M
Rated Input Voltage	DC 22.2V
Battery	DC 22.2V, 27000mAh

### 5.2.MAXIMUM EMISSIONS FIELD STRENGTH

Frequency Range (MHz)	Number of Transmit Chains (NTX)	Frequency (MHz)	Max. Emissions Field Strength (dB $\mu$ V/m)
2413 ~ 2475	1	2413 ~ 2475	110.21

### 5.3.TEST CHANNEL CONFIGURATION

Bandwidth	Low	Middle	High
10M	59830	60140	60450
	2413MHz	2444MHz	2475MHz
20M	59880	60140	60400
	2418MHz	2444MHz	2470MHz



#### 5.4. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	55 ~ 65%	
Atmospheric Pressure:	1025Pa	
Temperature	TN	23 ~ 28°C
Voltage :	VL	N/A
	VN	DC 22.2V
	VH	N/A

Note: VL= Lower Extreme Test Voltage  
VN= Nominal Voltage  
VH= Upper Extreme Test Voltage  
TN= Normal Temperature



### 5.5.DESCRPTION OF AVAILABLE ANTENNAS

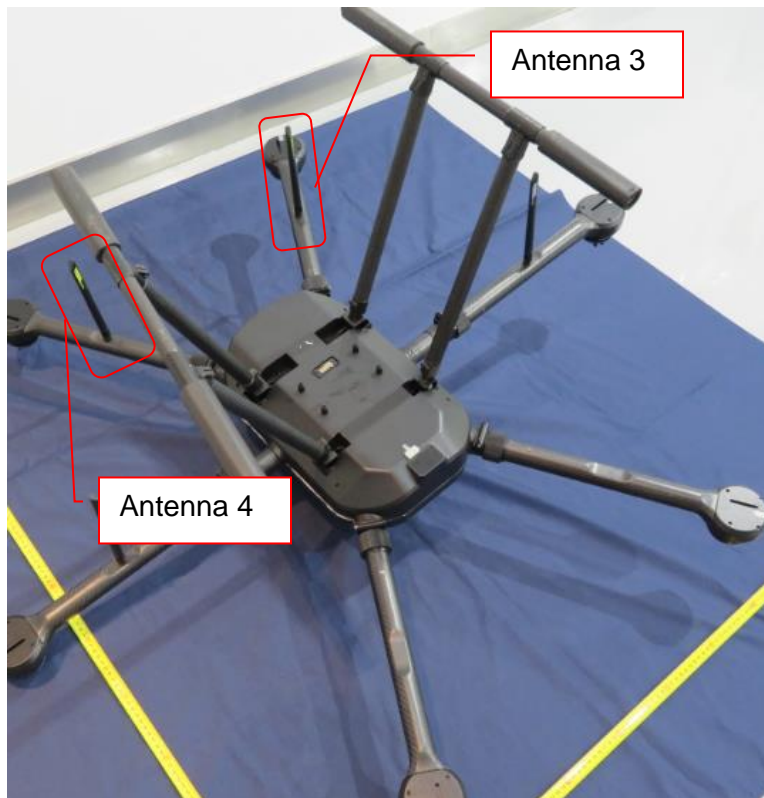
Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
3	2413MHz~2475MHz	External Antenna	4.00

Test Mode	Transmit and Receive Mode	Description
QPSK, OFDM	<input checked="" type="checkbox"/> 1TX, 1RX	Chain 3 can be used as transmitting/receiving antenna.

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
4	2413MHz~2475MHz	External Antenna	4.00

Test Mode	Transmit and Receive Mode	Description
QPSK, OFDM	<input checked="" type="checkbox"/> 1RX	Chain 4 can be used as receiving antenna.

Note: The antenna 3 can be used to transmitting and receiving when Chain 4 can be used to receiving only.





### 5.6.THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter				
Test Software Version		10M Bandwidth Test Channel		
Modulation Type	Transmit Antenna Number	CH 59830	CH 60140	CH 60450
QPSK	3	75	75	75
OFDM	3	75	75	75

The Worse Case Power Setting Parameter				
Test Software Version		20M Bandwidth Test Channel		
Modulation Type	Transmit Antenna Number	CH 59880	CH 60140	CH 60400
QPSK	3	68	68	68
OFDM	3	70	70	70

## 5.7.DESCRPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	Laptop	ThinkPad	T460S	SL10K24796 JS

### I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	N/A	N/A	N/A	N/A	N/A

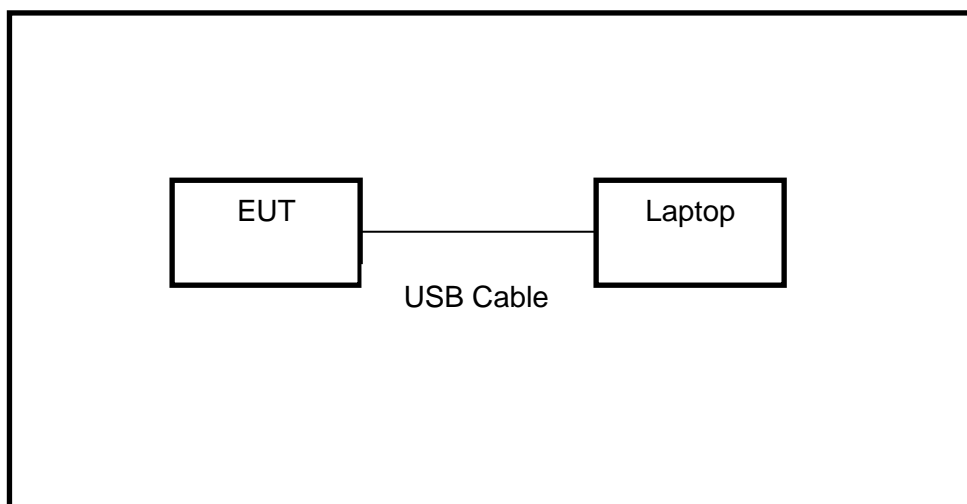
### ACCESSORY

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

### TEST SETUP

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

### SETUP DIAGRAM FOR TESTS





### 5.8.MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	EMI Test Receiver	R&S	ESR3	101961	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Two-Line V- Network	R&S	ENV216	101983	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Dec.12,2017	Dec.11,2018
Software						
Used	Description	Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Conducted disturbance	Farad	EZ-EMC	Ver. UL-3A1		
Radiated Emissions						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	MXE EMI Receiver	KESIGHT	N9038A	MY56400 036	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jan.09, 2016	Jan.09, 2019
<input checked="" type="checkbox"/>	Preamplifier	HP	8447D	2944A090 99	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	EMI Measurement Receiver	R&S	ESR26	101377	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Horn Antenna	TDK	HRN-0118	130939	Jan. 09, 2016	Jan. 09, 2019
<input checked="" type="checkbox"/>	High Gain Horn Antenna	Schwarzbeck	BBHA-9170	691	Jan.06, 2016	Jan.06, 2019
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-0118	TRS-305- 00066	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-2	TRS-307- 00003	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Loop antenna	Schwarzbeck	1519B	00008	Mar. 26, 2016	Mar. 25, 2019
Software						
Used	Description	Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance	Farad	EZ-EMC	Ver. UL-3A1		
Other instruments						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9030A	MY55410512	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Power Meter	Keysight	N1911A	MY55416024	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Power Sensor	Keysight	N1921A	MY51100041	Dec.12,2017	Dec.11,2018



## 6. SUMMARY OF TEST RESULTS

Summary of Test Results			
Clause	Test Items	FCC/IC Rules	Test Results
1	20dB Bandwidth	FCC 15.215	Pass
2	TX Spurious Emission	FCC 15.249 (a)(d)(e) FCC 15.209 FCC 15.205	Pass
3	Conducted Emission Test For AC Power Port	FCC 15.207	N/A



## 7. ANTENNA PORT TEST RESULTS

### 7.1.ON TIME AND DUTY CYCLE

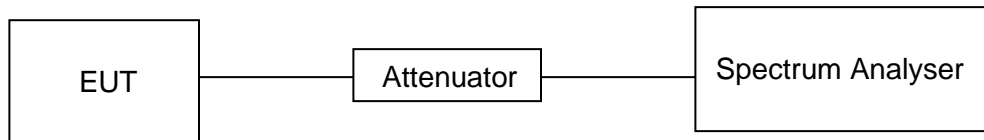
#### LIMITS

None; for reporting purposes only

#### PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

#### TEST SETUP



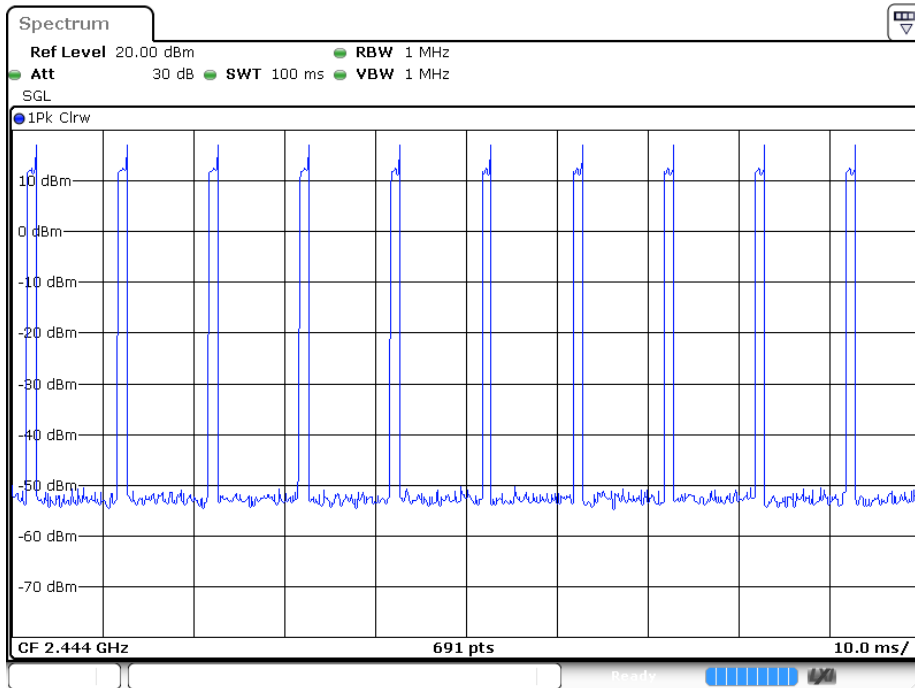
#### RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (KHz)
QPSK	1.0145	10.029	0.101	10.1%	9.96	1

Note: Duty Cycle Correction Factor= $10\log(1/x)$ .  
Where: x is Duty Cycle (Linear)  
Where: T is On Time (transmit duration)

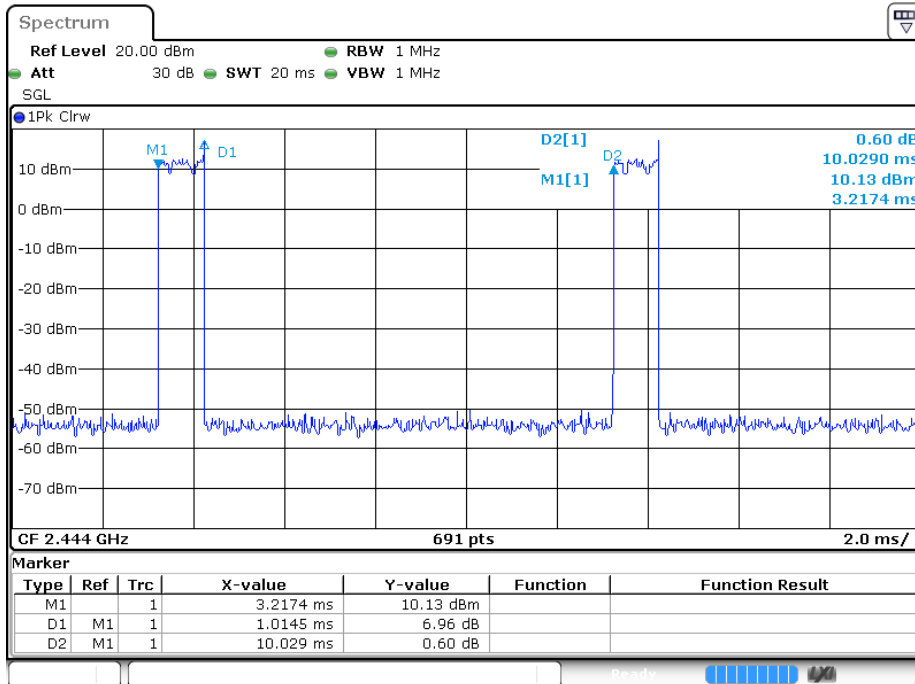


### ON TIME AND DUTY CYCLE MID CH PLOT-1



Date: 12 JUN 2018 15:13:05

### ON TIME AND DUTY CYCLE MID CH PLOT-2



Date: 12 JUN 2018 15:12:18

Note: The duty cycle of all modulations and bandwidths are the same, so we only report one mode and this will apply for all other mode.

## 7.2.20 dB BANDWIDTH

### LIMITS

FCC Part15 (15.249) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.249(d)	Bandwidth	for reporting purposes only	2400-2483.5

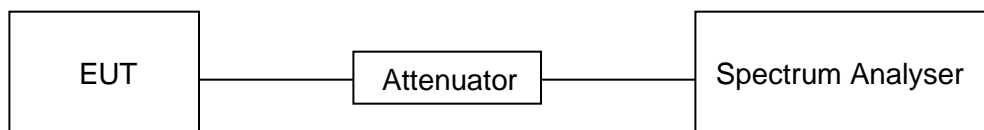
### TEST PROCEDURE

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

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3×RBW
Trace	Max hold
Sweep	Auto couple

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 20 dB relative to the maximum level measured in the fundamental emission.

### TEST SETUP





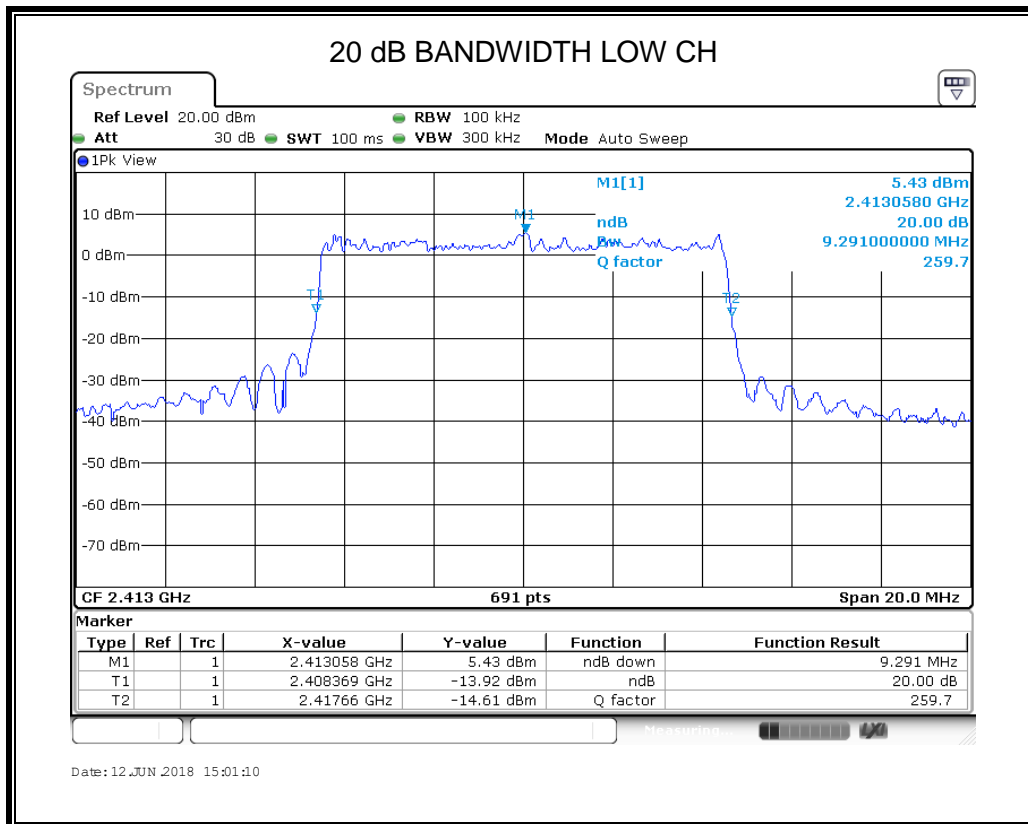


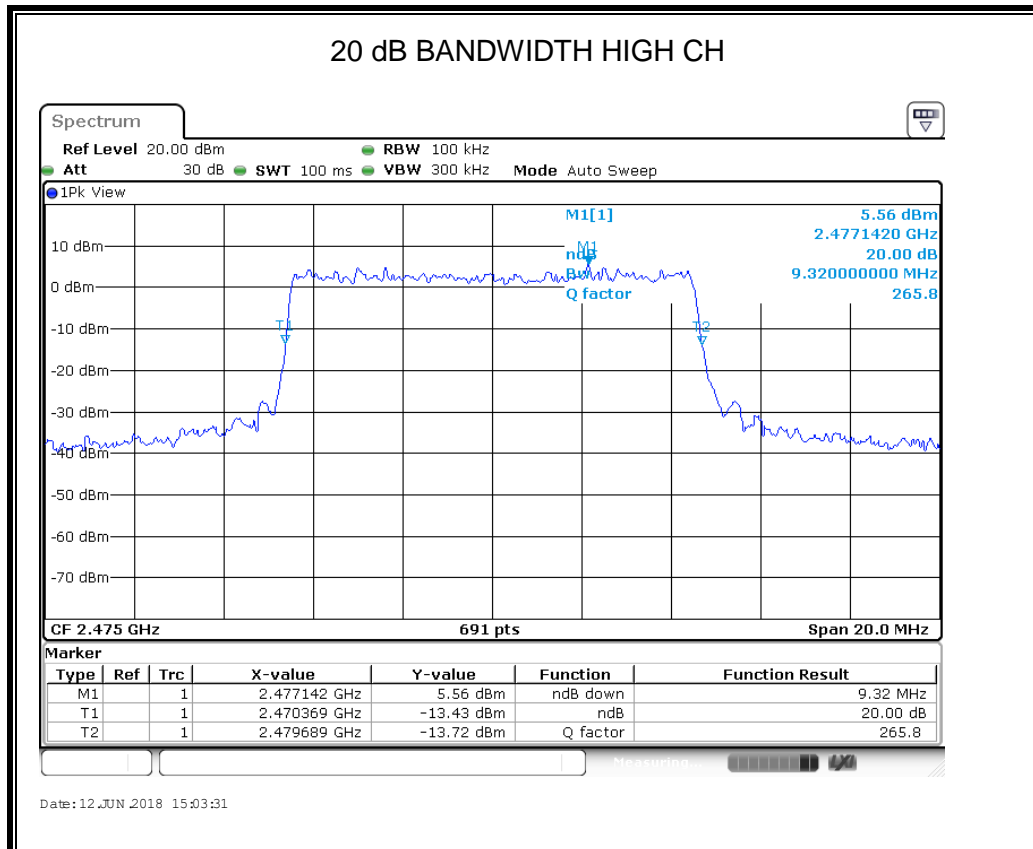
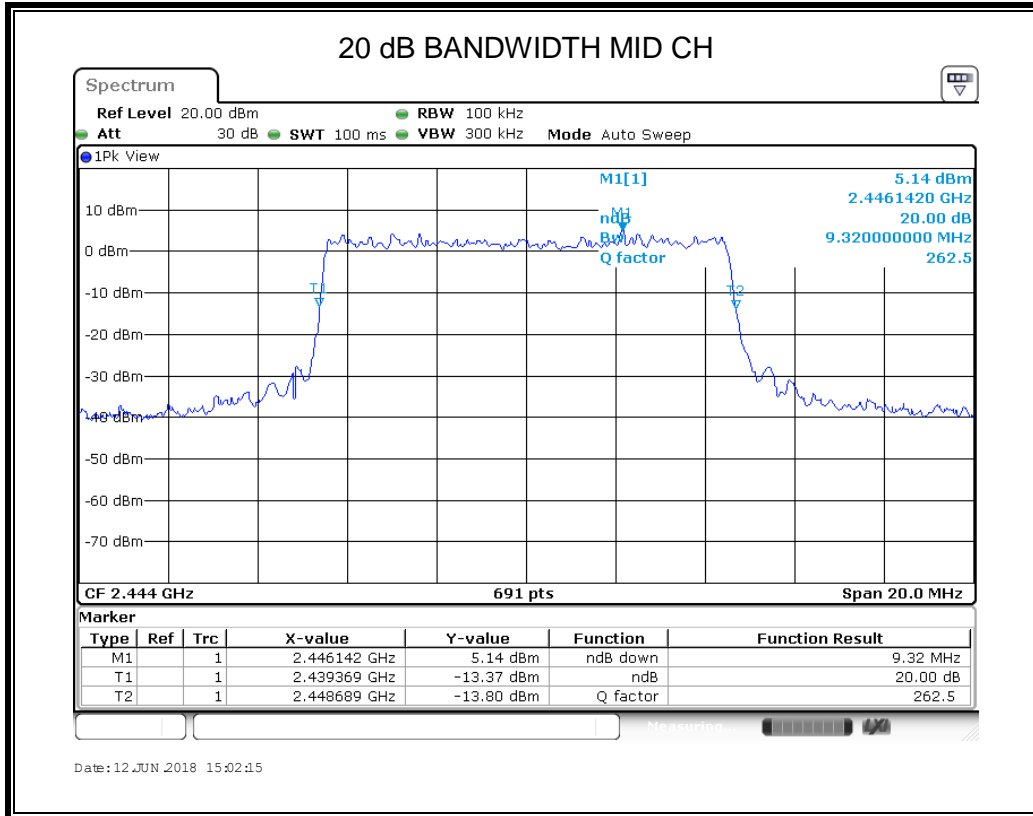
**RESULTS**

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

**QPSK 10MHz Bandwidth Mode**

Channel	Frequency (MHz)	20dB bandwidth (MHz)	Result
Low	2413	9.291	Pass
Middle	2444	9.320	Pass
High	2475	9.320	Pass

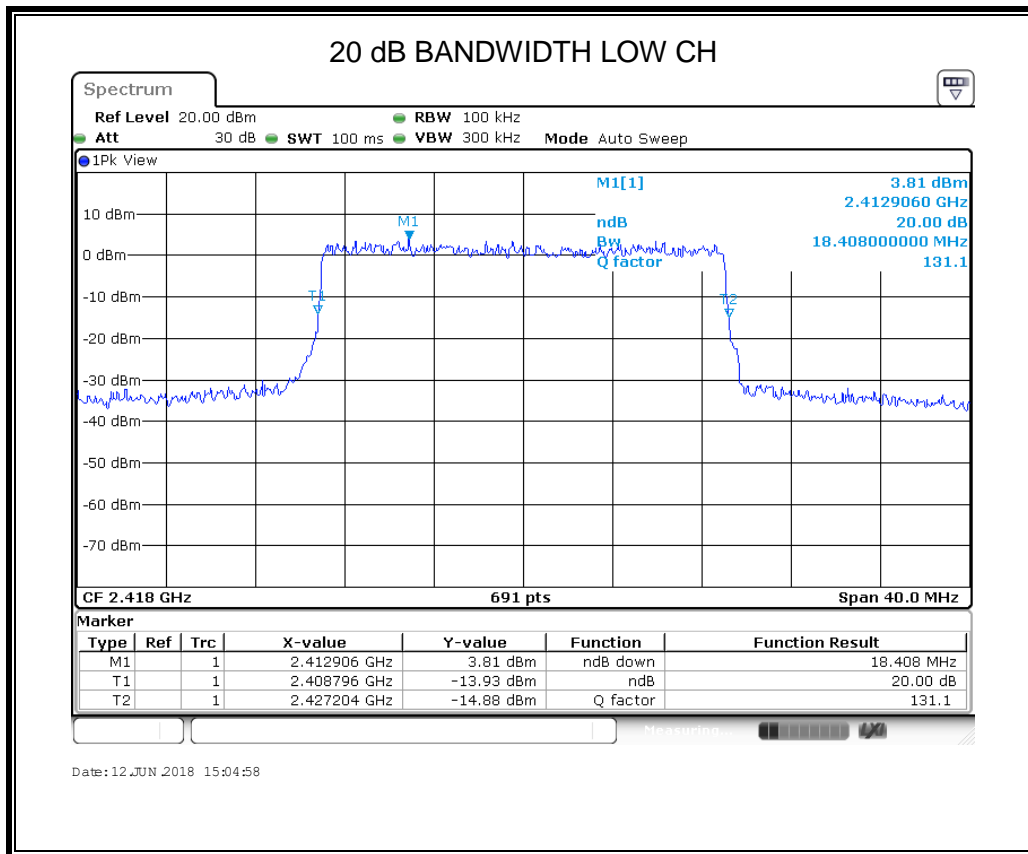


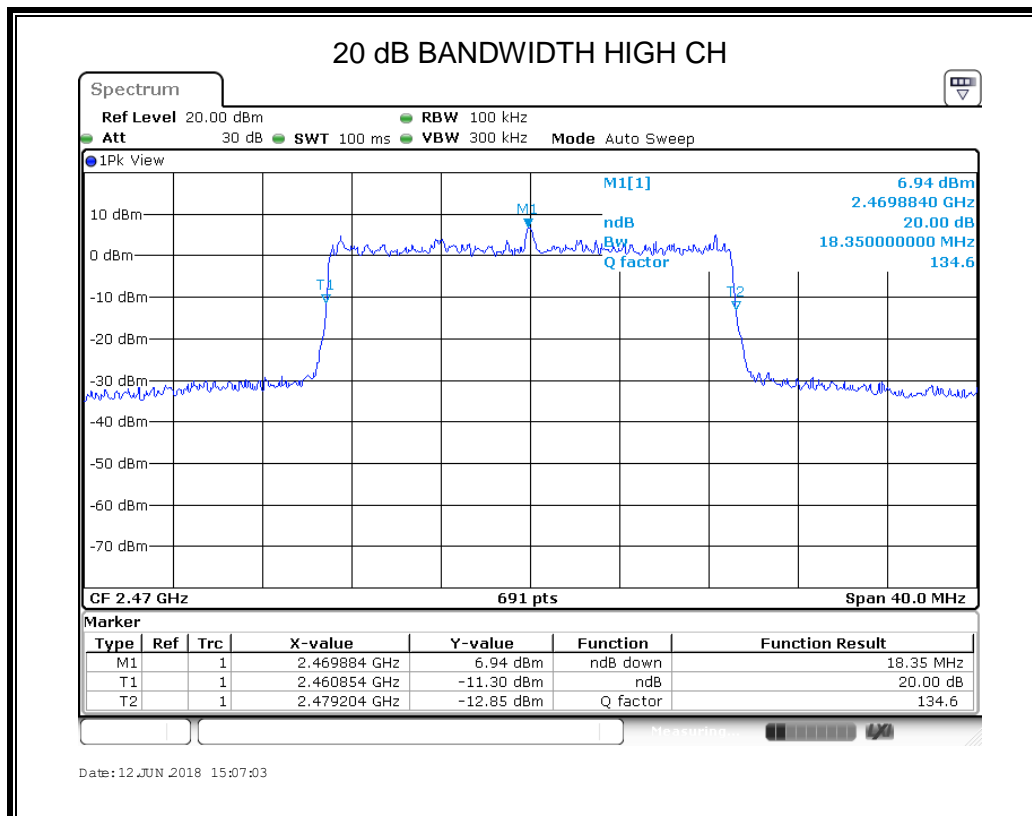
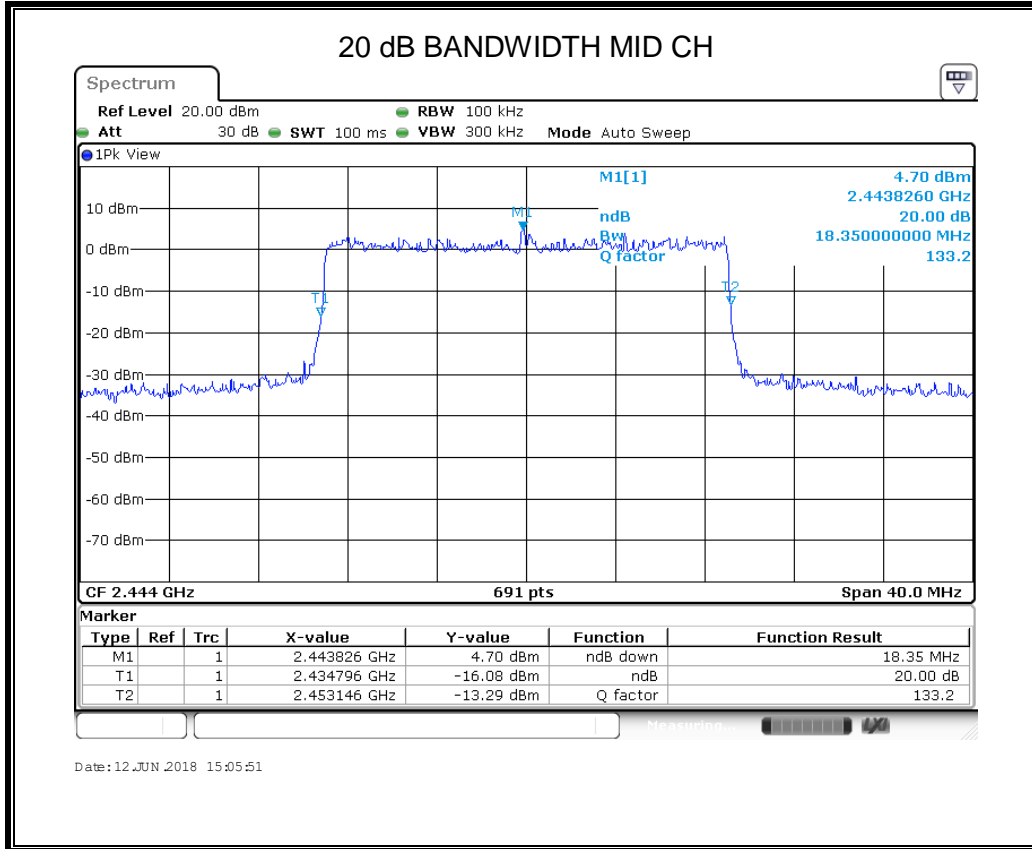




QPSK 20MHz Bandwidth Mode

Channel	Frequency (MHz)	20dB bandwidth (MHz)	Result
Low	2418	18.408	Pass
Middle	2444	18.350	Pass
High	2470	18.350	Pass







## 8. RADIATED TEST RESULTS

### 8.1. LIMITS AND PROCEDURE

#### LIMITS

Please refer to FCC §15.205 and §15.209

Please refer to FCC §15.249 (a)(d)(e)

The field strength of emissions from intentional radiators operated within these frequency bands			
Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3

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

#### Restricted bands of operation

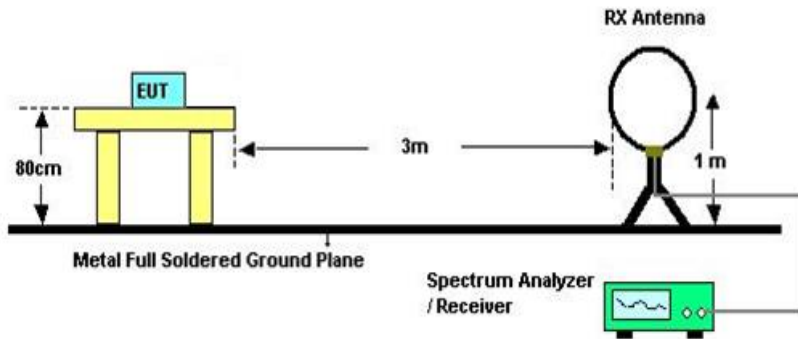
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
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	( <sup>2</sup> )
13.36-13.41			

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

<sup>2</sup>Above 38.6

**TEST SETUP AND PROCEDURE**

Below 30MHz

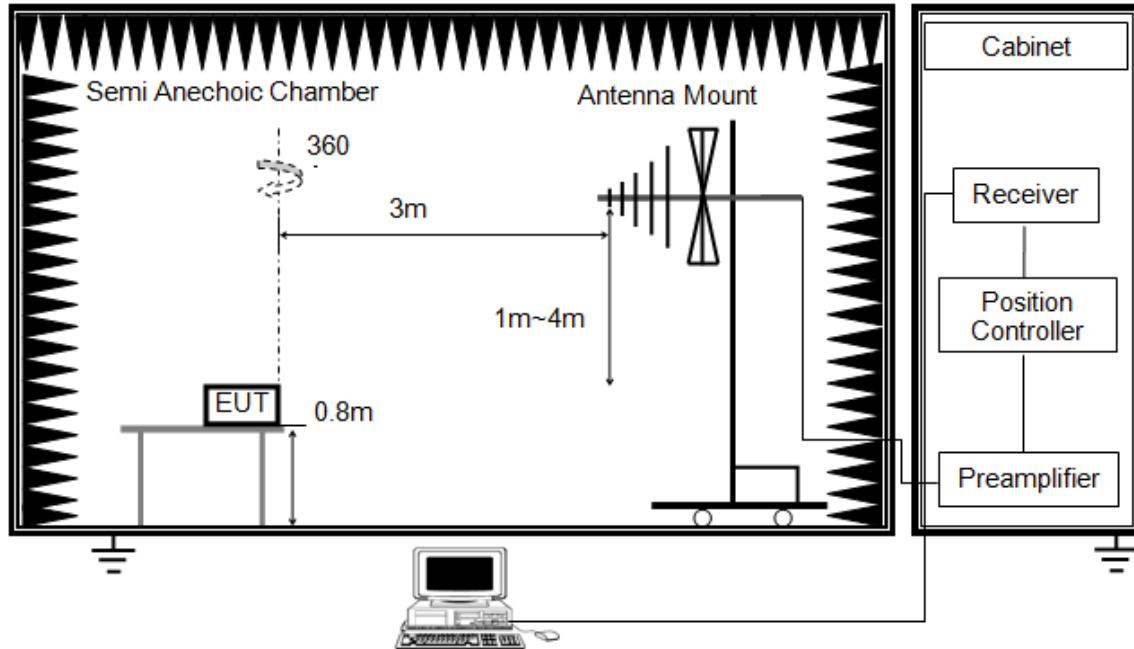


The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 and 414788 D01 Radiated Test Site v01.
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 and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm meter 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. 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 1GHz, 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.
7. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open are test 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 based on KDB 414788.

Below 1G

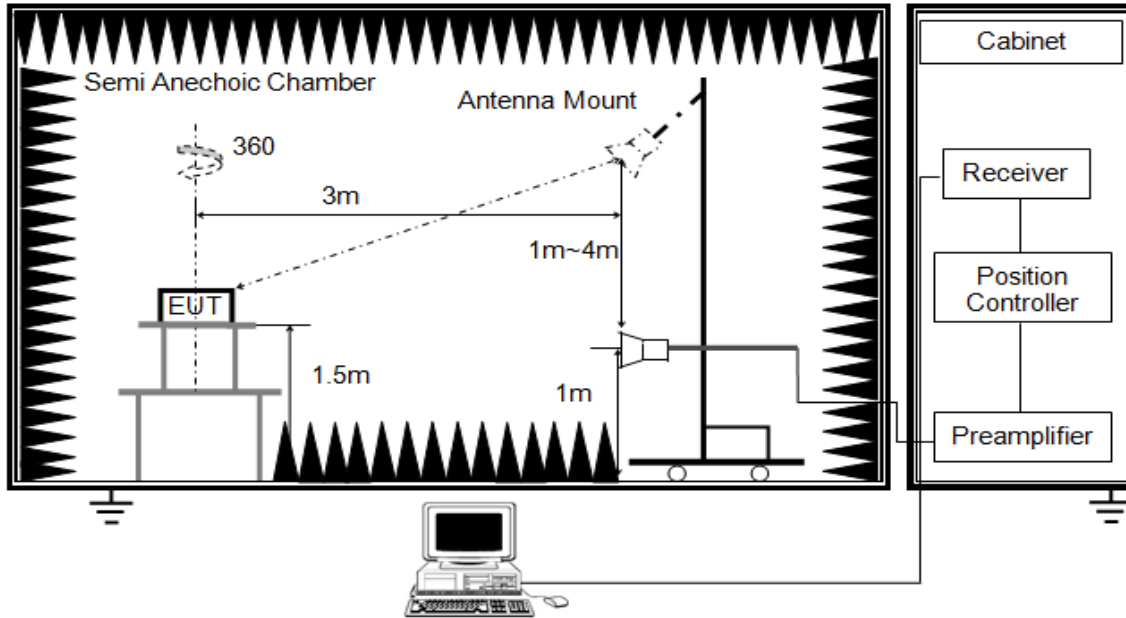


The setting of the spectrum analyser

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

1. The testing follows the guidelines in ANSI C63.10-2013.
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 0.8 meter 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 1GHz, 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 1G



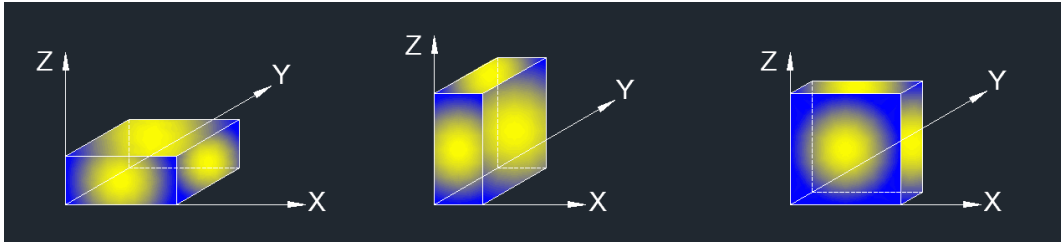
The setting of the spectrum analyser

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

1. The testing follows the guidelines in ANSI C63.10-2013.
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 1.5m 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 1GHz, 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 the Duty Cycle please refer to clause 6.1.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: All the EUT's emissions had been evaluated for simultaneous transmission with the other 915MHz transmitter and there were no any additional or worse emissions found.

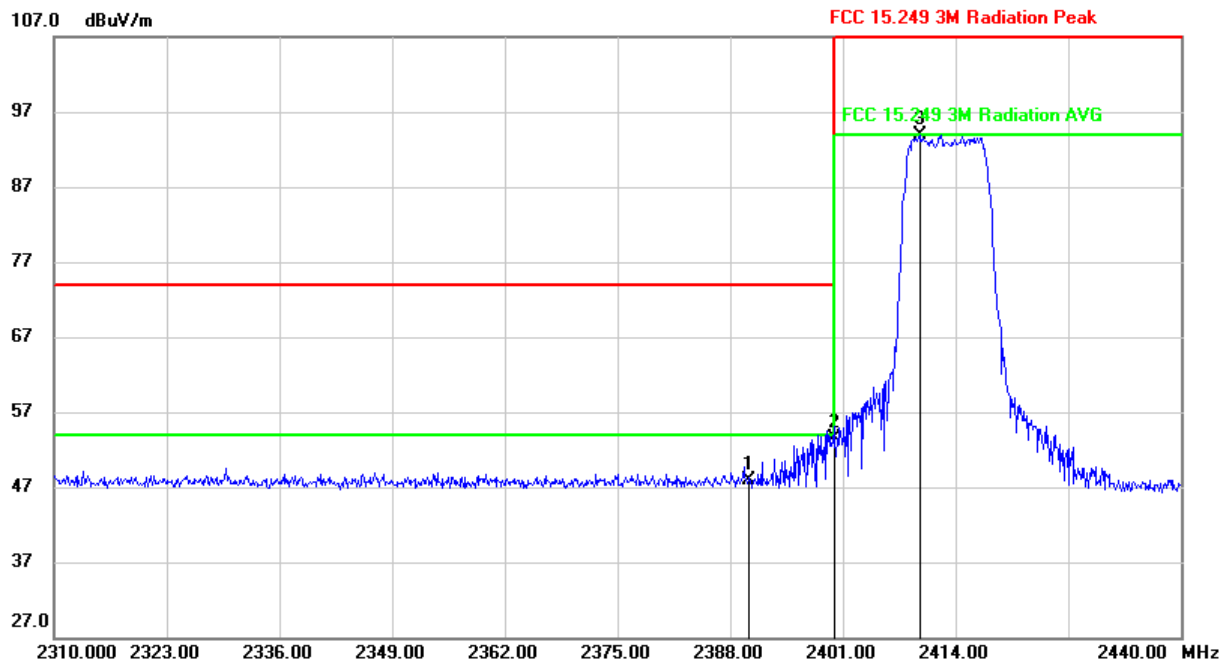


## 8.2.RESTRICTED BANDEGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

QPSK 10MHz Bandwidth Mode

### RESTRICTED BANDEGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, HORIZONTAL)

**PEAK**

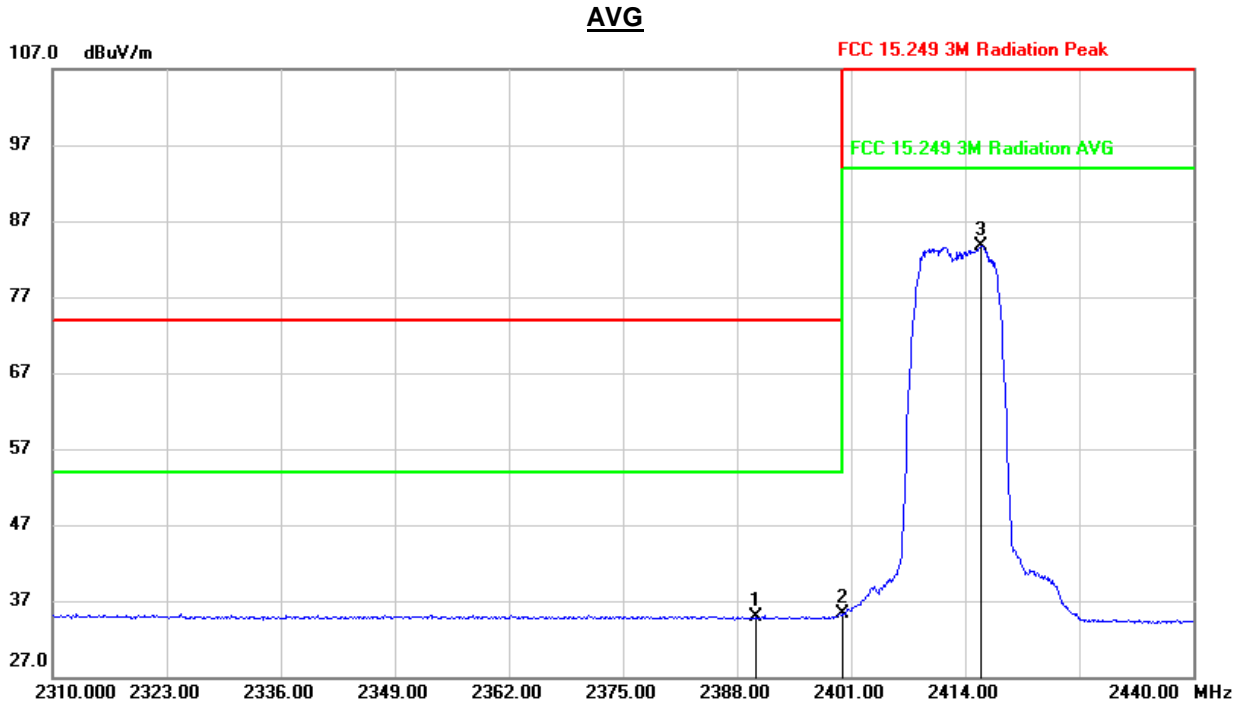


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	14.83	33.14	47.97	74.00	-26.03	peak
2	2400.000	20.42	33.07	53.49	74.00	-20.51	peak
3	2409.970	60.86	33.02	93.88	114.00	-20.12	peak

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

2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



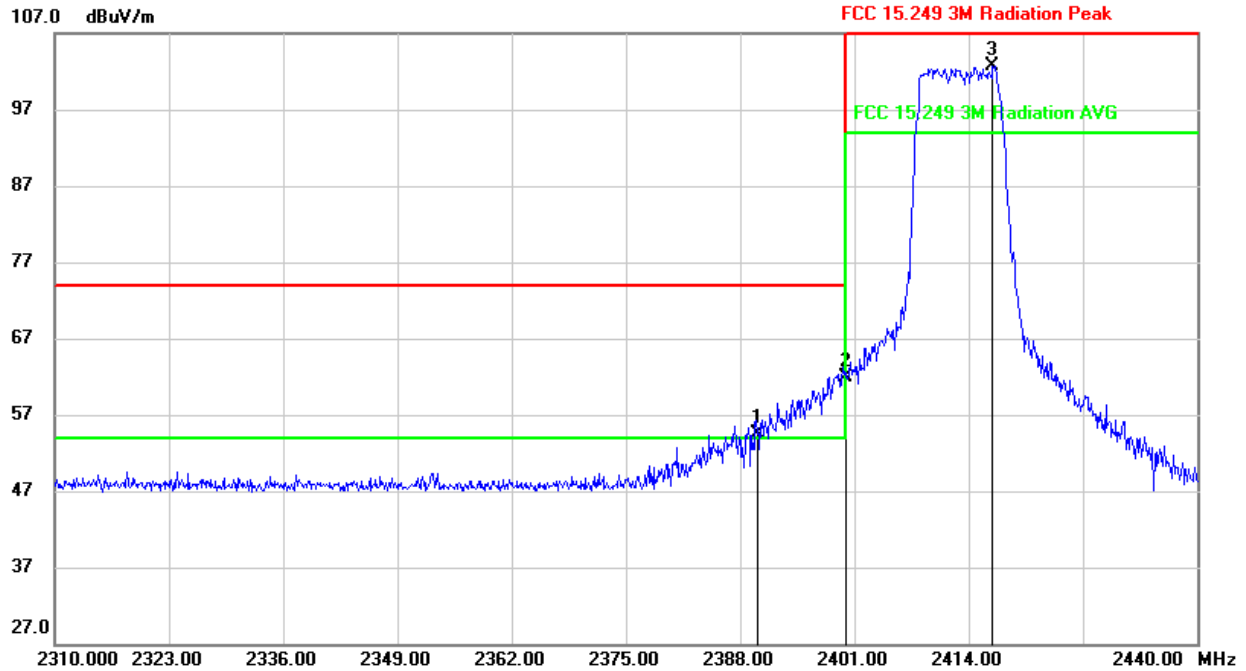
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	1.69	33.14	34.83	54.00	-19.17	AVG
2	2400.000	2.14	33.07	35.21	54.00	-18.79	AVG
3	2415.820	50.79	32.99	83.78	94.00	-10.22	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, VERTICAL)**

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	21.22	33.24	54.46	74.00	-19.54	peak
2	2400.000	28.78	33.17	61.95	74.00	-12.05	peak
3	2416.730	69.58	33.09	102.67	114.00	-11.33	peak

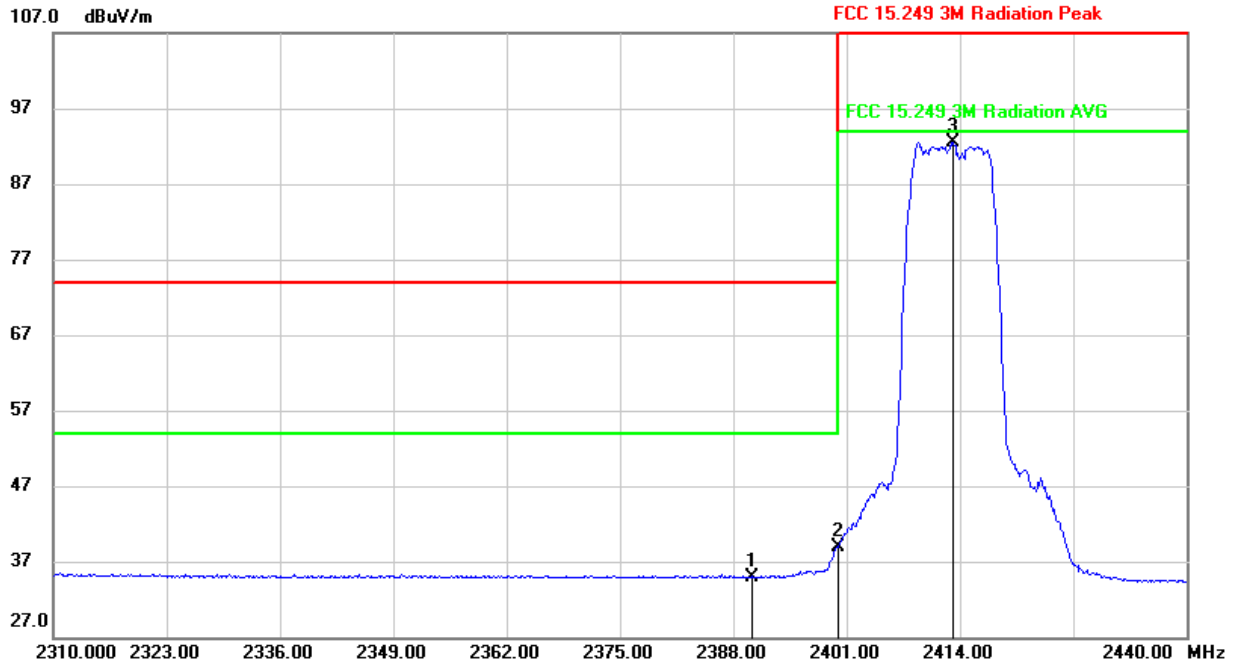
Note: 1. Measurement = Reading Level + Correct Factor.

2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



**AVG**



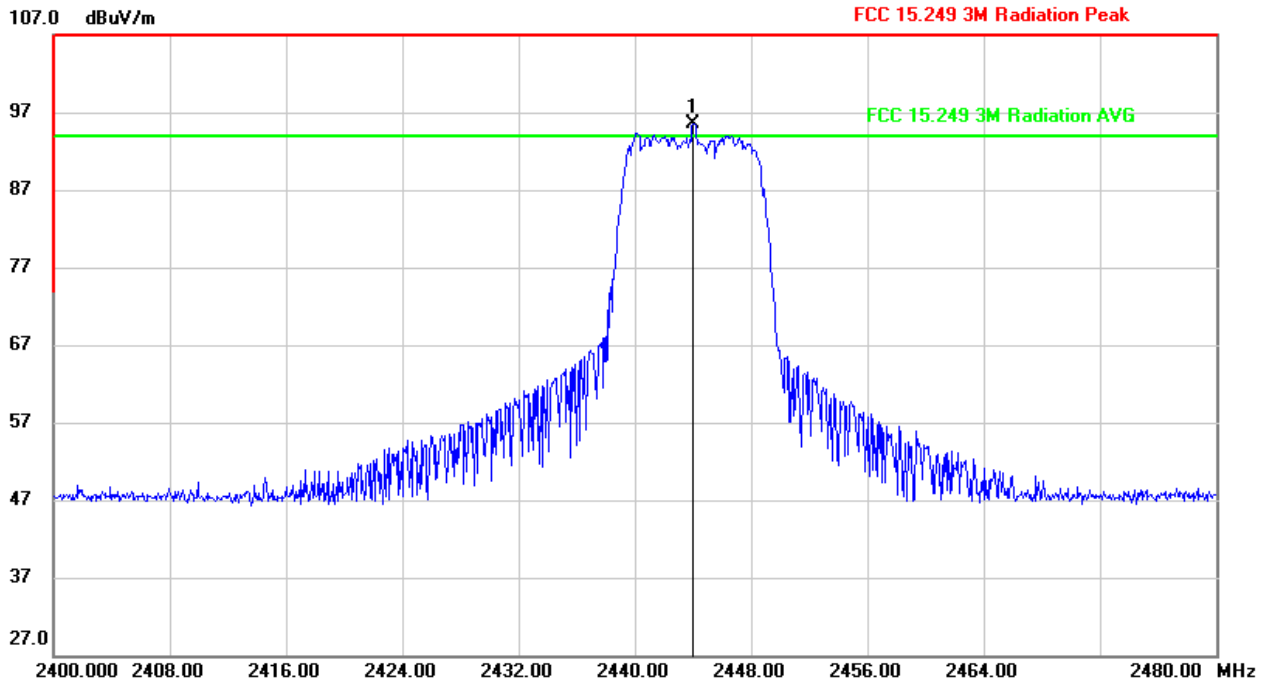
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	1.70	33.24	34.94	54.00	-19.06	AVG
2	2400.000	5.83	33.17	39.00	54.00	-15.00	AVG
3	2413.220	59.37	33.10	92.47	94.00	-1.53	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**FIELD STRENGTH OF INTENTIONAL EMISSIONS (MID CHANNEL, HORIZONTAL)**

**PEAK**

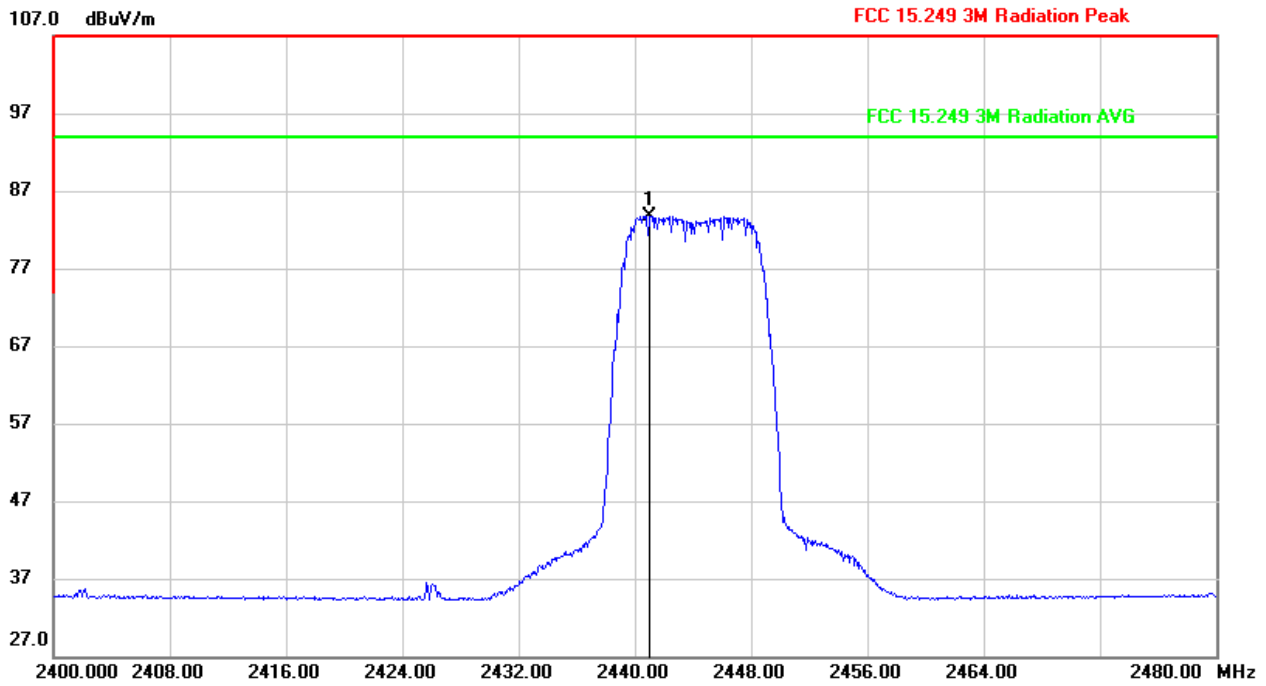


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2444.000	62.62	32.85	95.47	114.00	-18.53	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



**AVG**



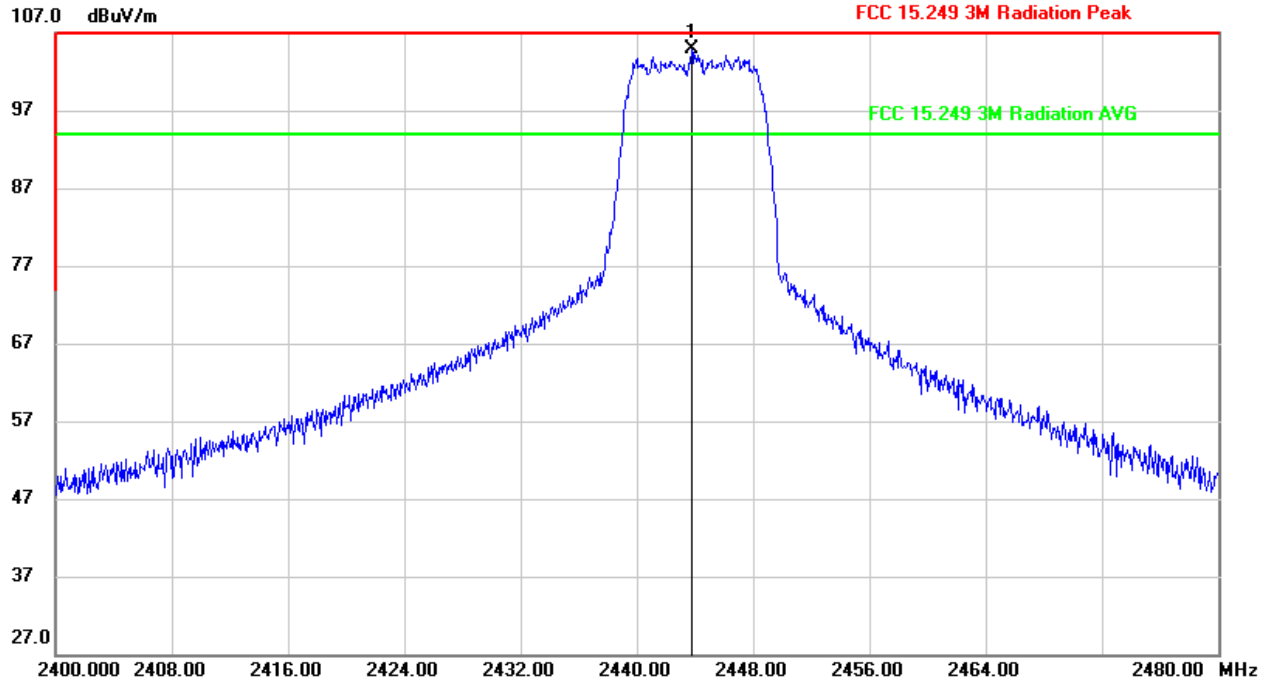
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2441.040	50.94	32.86	83.80	94.00	-10.20	AVG

- 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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.
  5. For transmit duration, please refer to clause 7.1.
  6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**FIELD STRENGTH OF INTENTIONAL EMISSIONS (MID CHANNEL, VERTICAL)**

**PEAK**



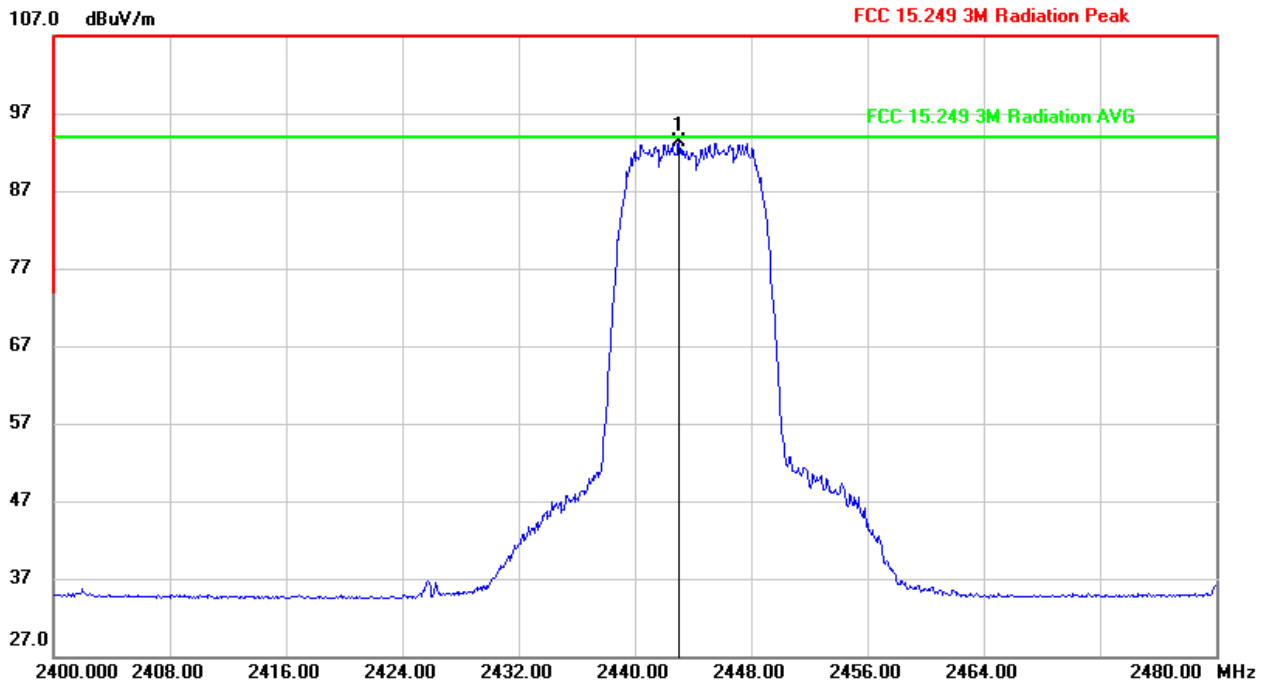
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2443.760	72.00	32.95	104.95	114.00	-9.05	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.





**AVG**



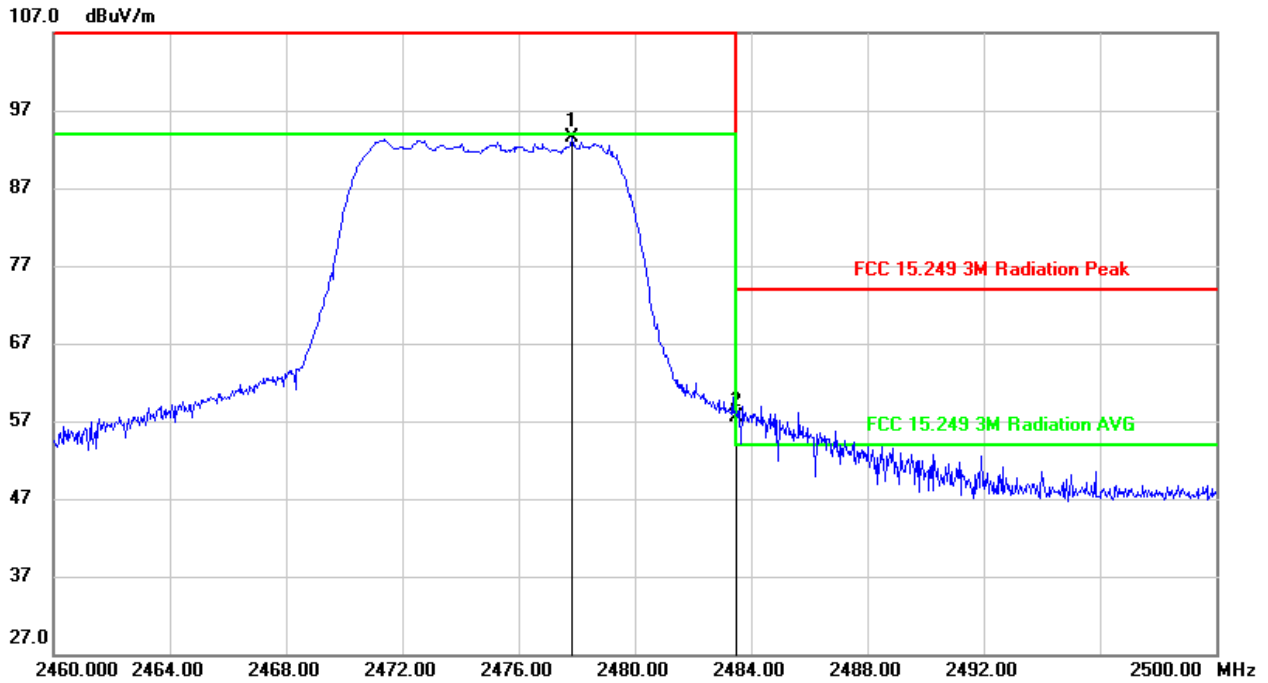
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2443.040	60.39	32.95	93.34	94.00	-0.66	AVG

- 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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.
  5. For transmit duration, please refer to clause 7.1.
  6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

**PEAK**

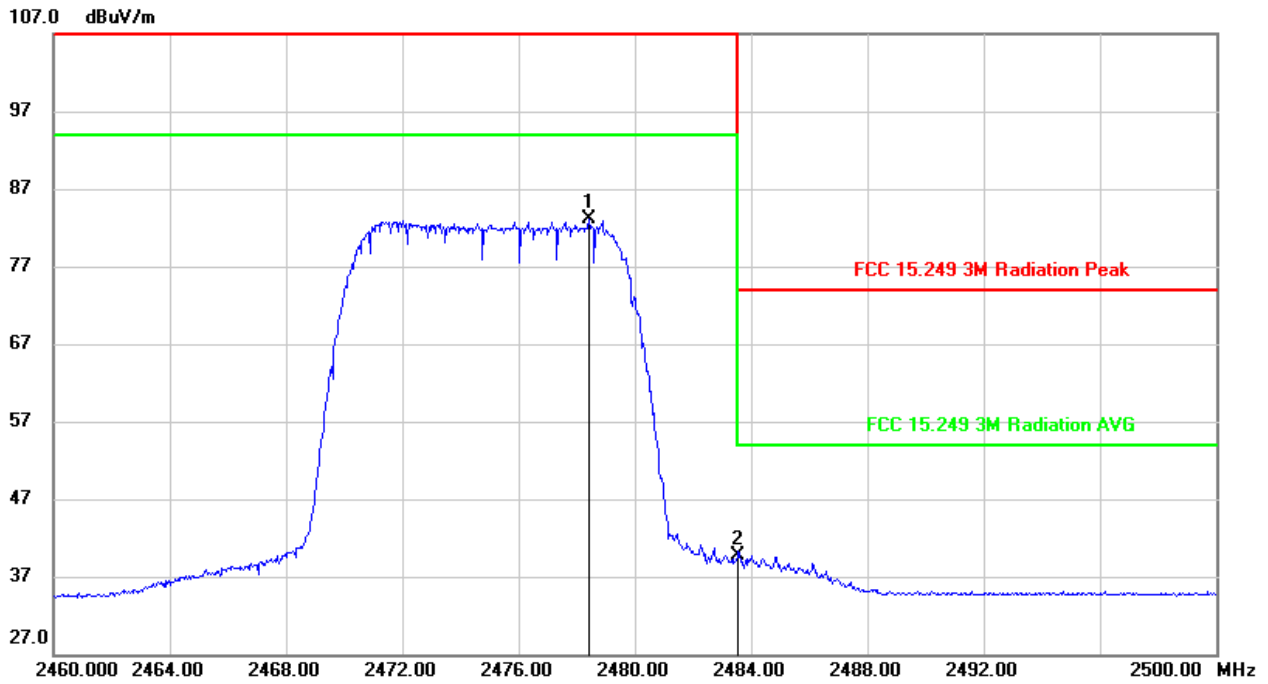


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2477.840	60.70	32.79	93.49	114.00	-20.51	peak
2	2483.500	24.76	32.78	57.54	74.00	-16.46	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



**AVG**



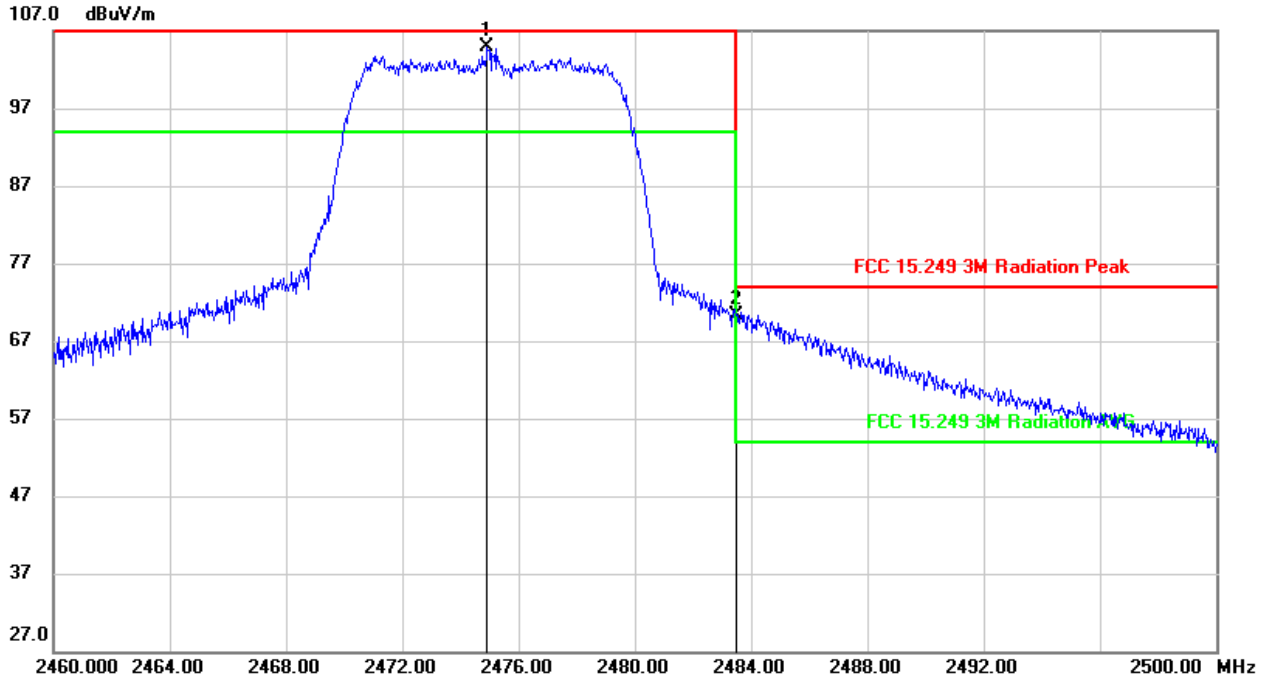
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2478.400	50.31	32.79	83.10	94.00	-10.90	AVG
2	2483.500	6.92	32.78	39.70	54.00	-14.30	AVG

- 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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.
  5. For transmit duration, please refer to clause 7.1.
  6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, VERTICAL)**

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2474.920	71.92	32.89	104.81	114.00	-9.19	peak
2	2483.500	37.41	32.88	70.29	74.00	-3.71	peak

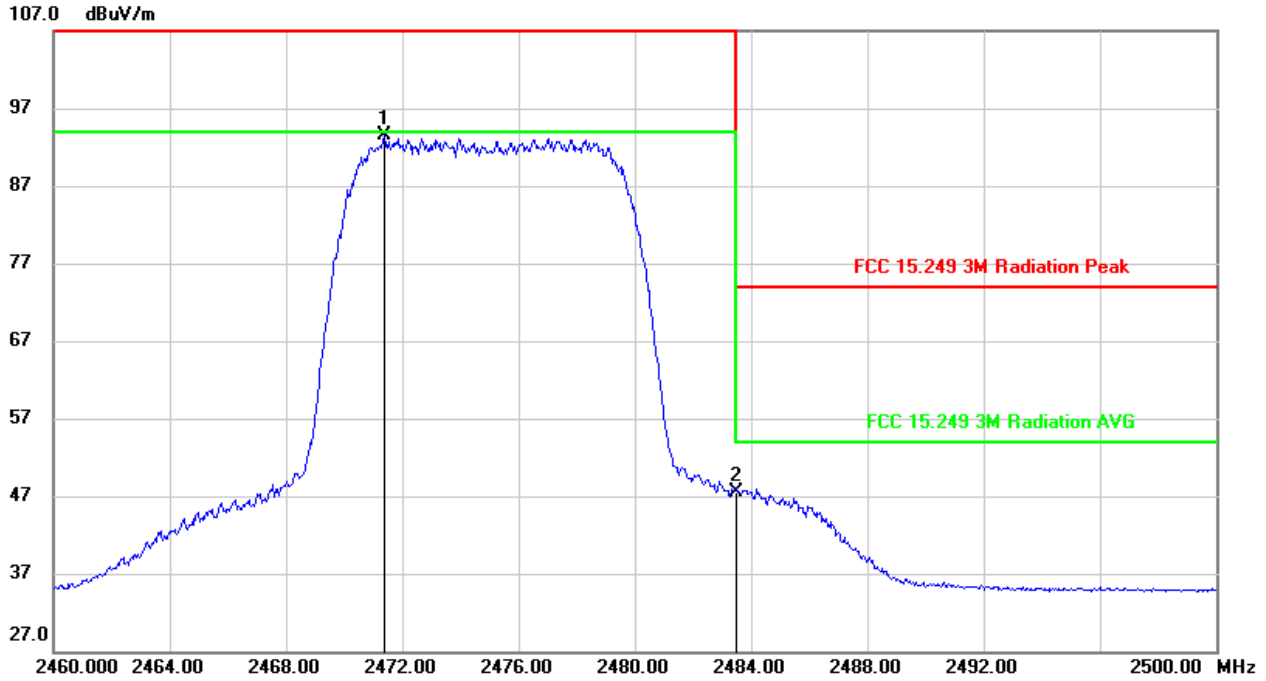
Note: 1. Measurement = Reading Level + Correct Factor.

2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



**AVG**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2471.400	60.61	32.90	93.51	94.00	-0.49	AVG
2	2483.500	14.68	32.88	47.56	54.00	-6.44	AVG

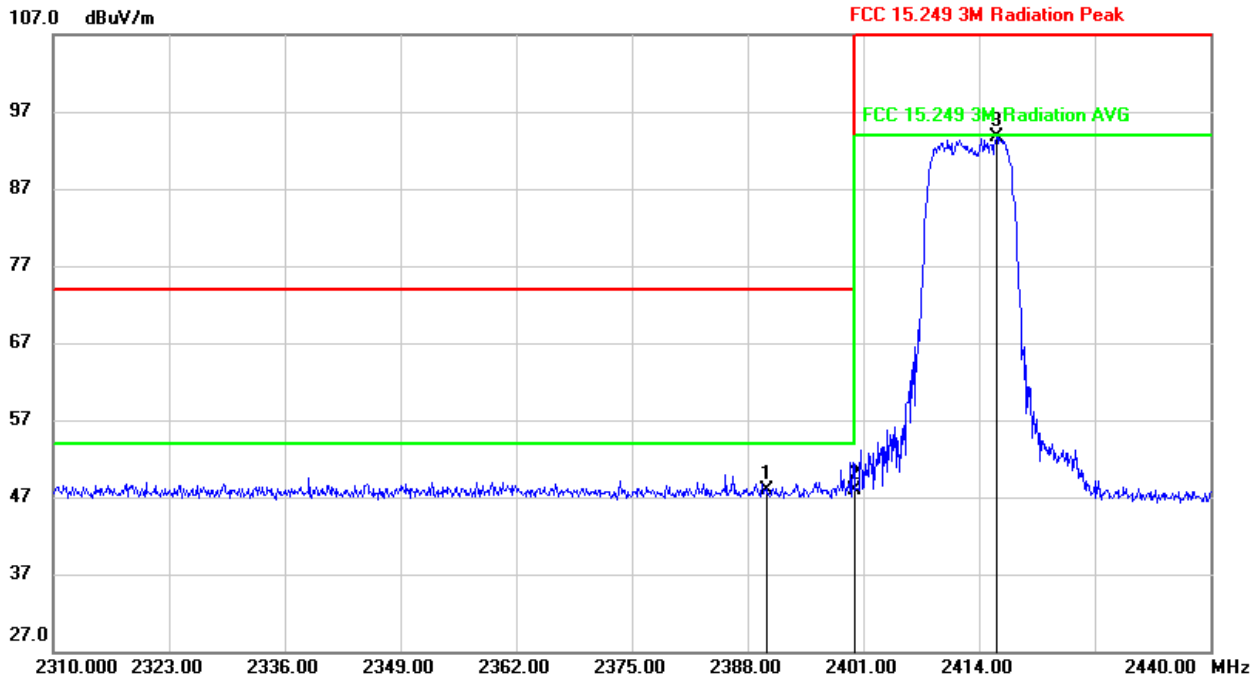
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



OFDM 10MHz Bandwidth Mode

**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, HORIZONTAL)**

**PEAK**

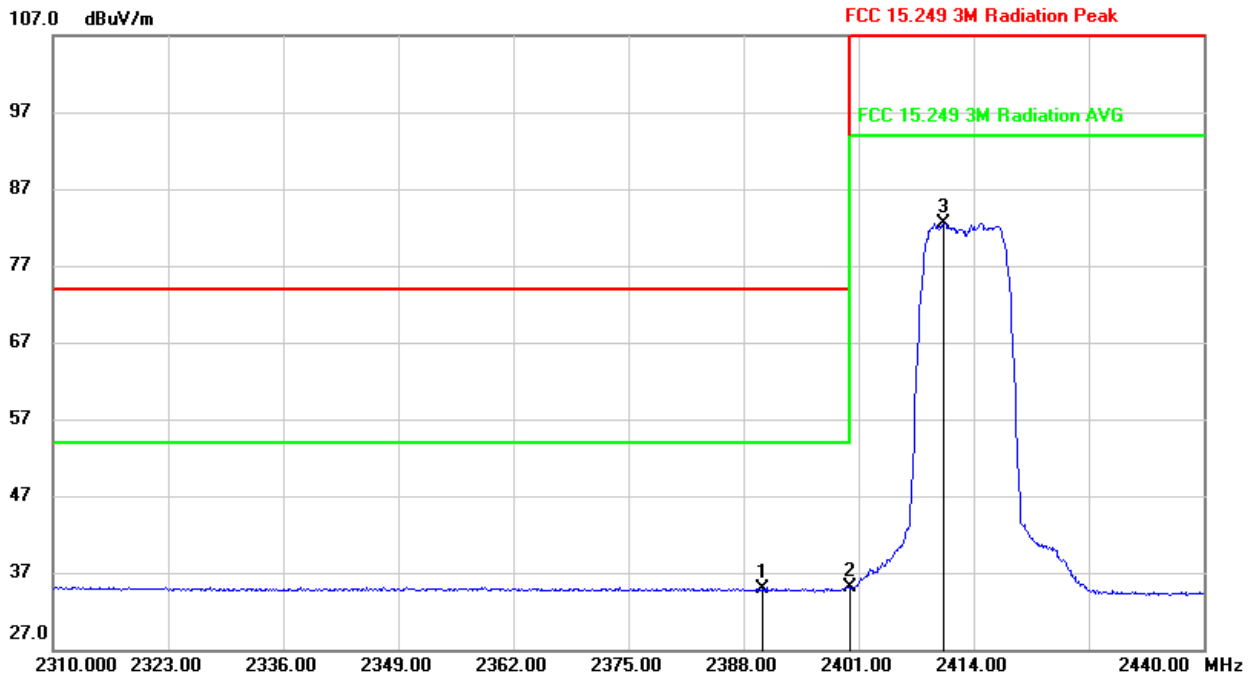


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	14.86	33.14	48.00	74.00	-26.00	peak
2	2400.000	14.83	33.07	47.90	74.00	-26.10	peak
3	2415.950	60.70	32.99	93.69	114.00	-20.31	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



**AVG**



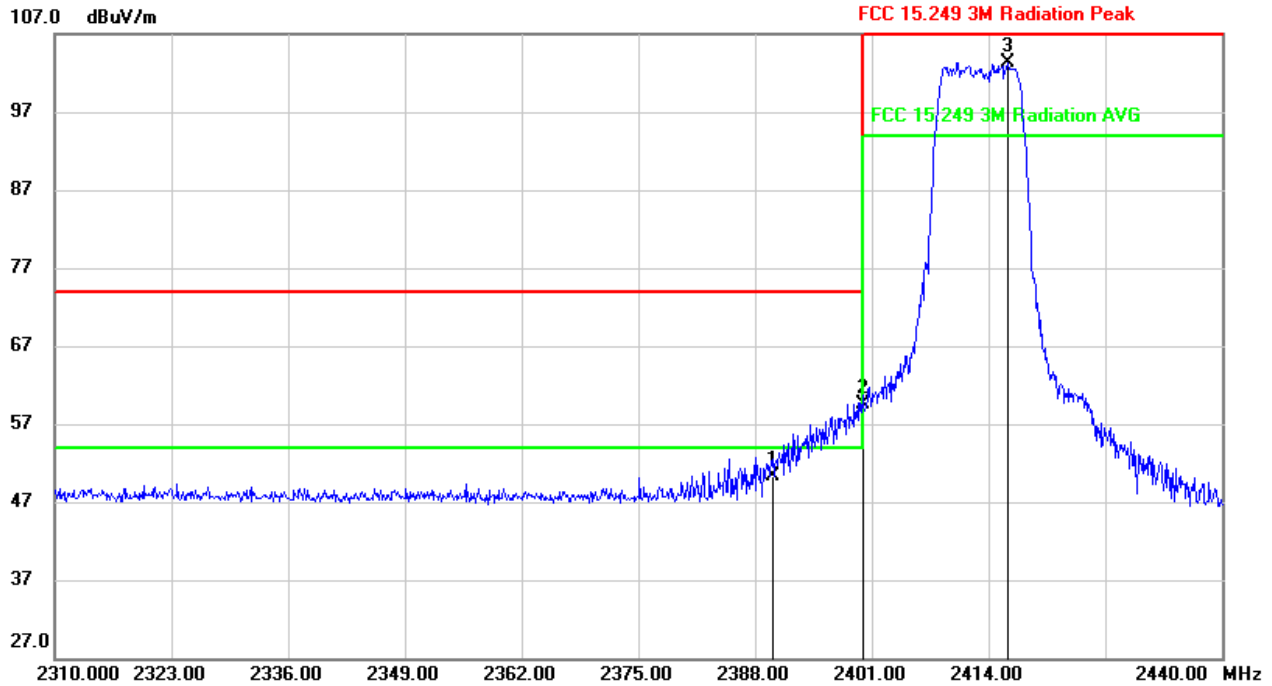
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	1.75	33.14	34.89	54.00	-19.11	AVG
2	2400.000	1.98	33.07	35.05	54.00	-18.95	AVG
3	2410.620	49.55	33.02	82.57	94.00	-11.43	AVG

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. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, VERTICAL)**

**PEAK**



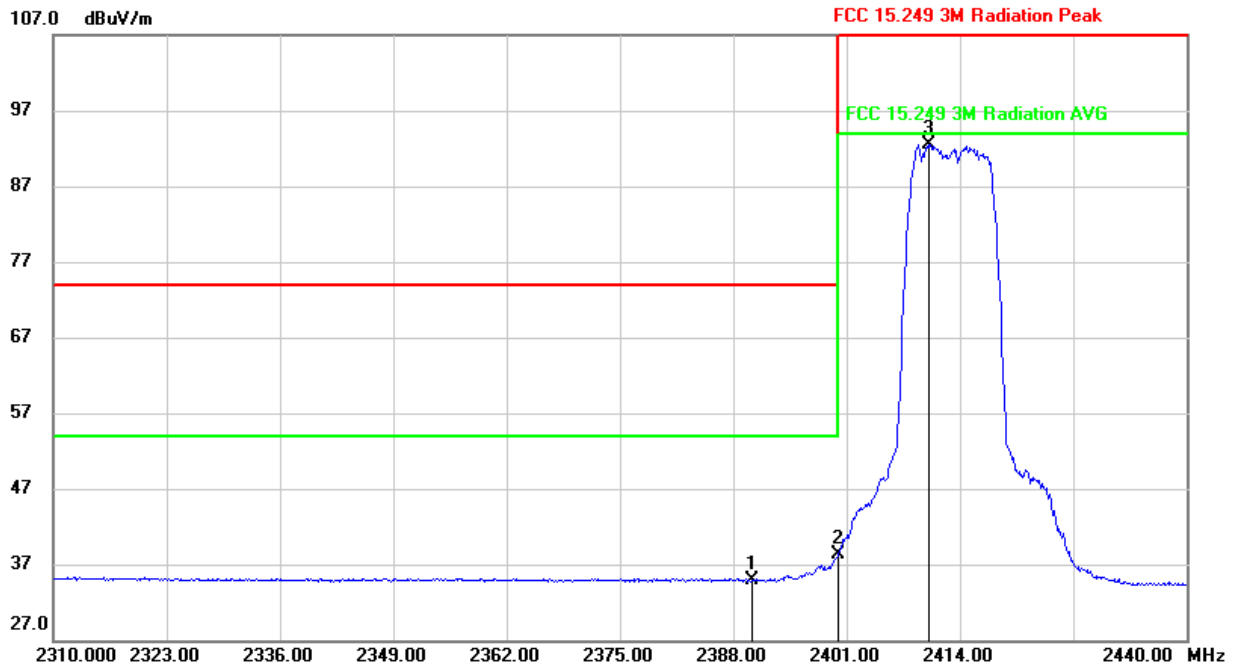
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	17.05	33.24	50.29	74.00	-23.71	peak
2	2400.000	26.25	33.17	59.42	74.00	-14.58	peak
3	2416.080	70.26	33.09	103.35	114.00	-10.65	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.





**AVG**



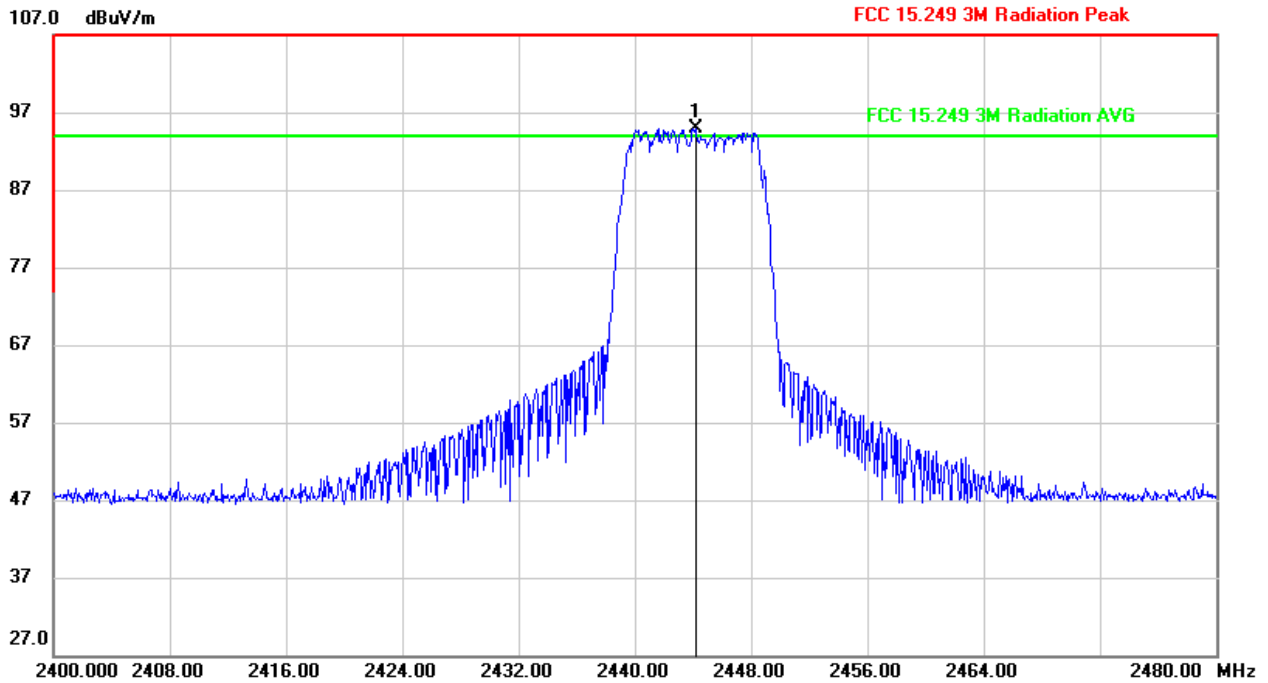
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	1.63	33.24	34.87	54.00	-19.13	AVG
2	2400.000	5.05	33.17	38.22	54.00	-15.78	AVG
3	2410.360	59.42	33.12	92.54	94.00	-1.46	AVG

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. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



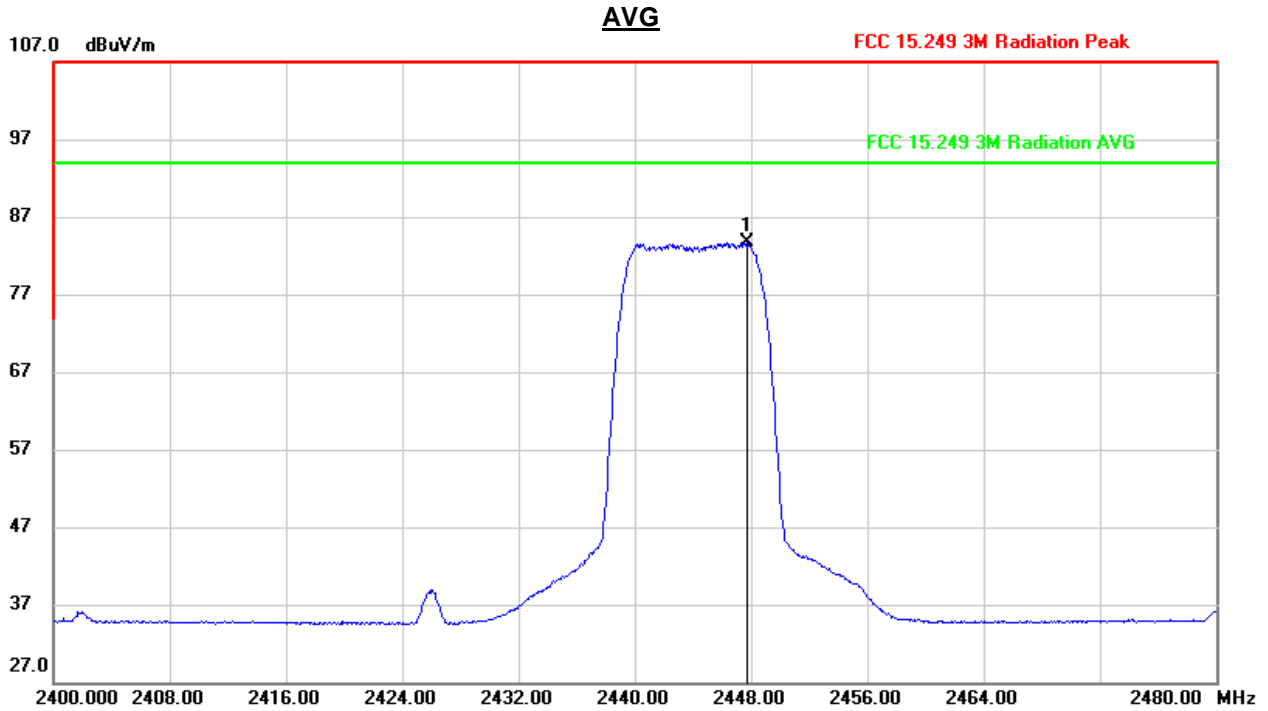
**FIELD STRENGTH OF INTENTIONAL EMISSIONS (MID CHANNEL, HORIZONTAL)**

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2444.160	62.12	32.85	94.97	114.00	-19.03	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



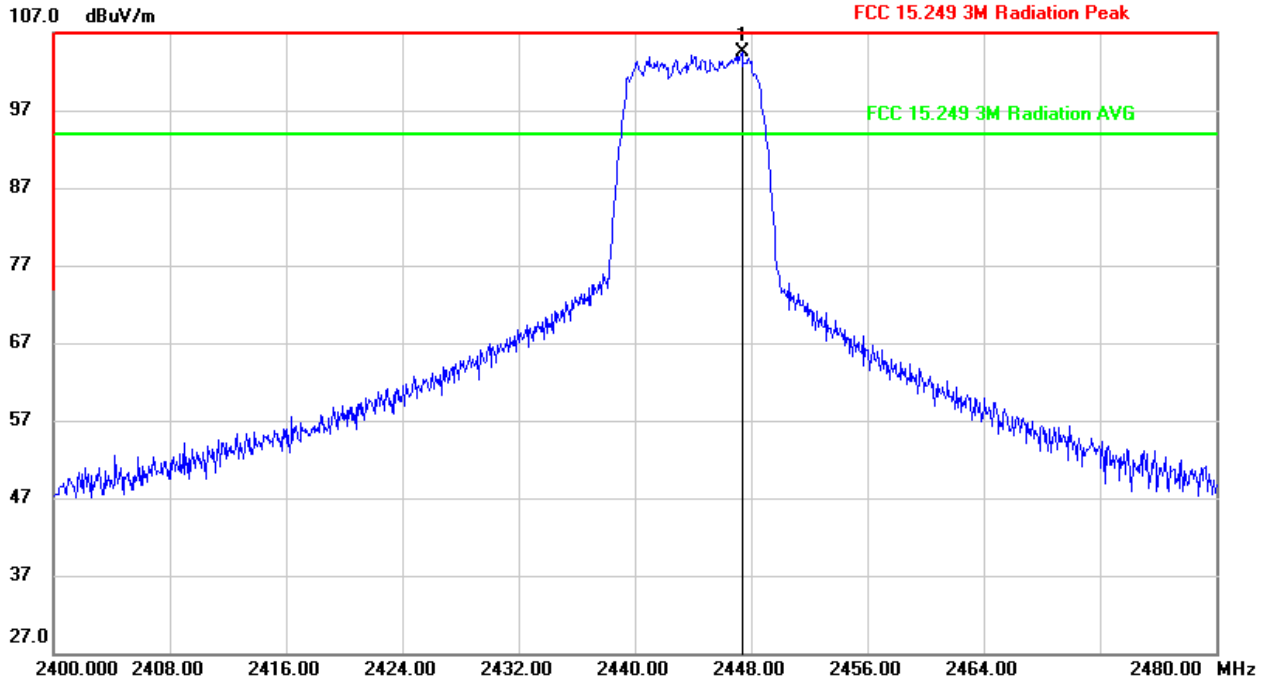
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2447.680	50.94	32.83	83.77	94.00	-10.23	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**FIELD STRENGTH OF INTENTIONAL EMISSIONS (MID CHANNEL, VERTICAL)**

**PEAK**

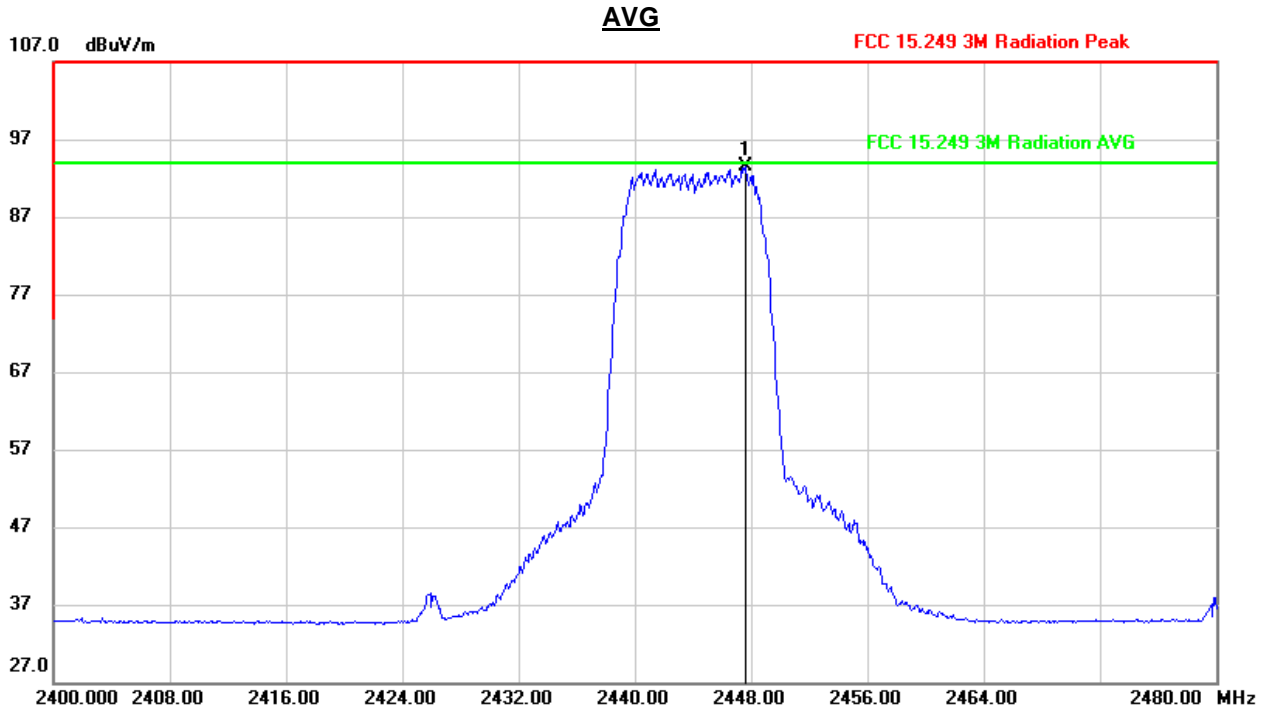


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2447.360	71.66	32.94	104.60	114.00	-9.40	peak

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

2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



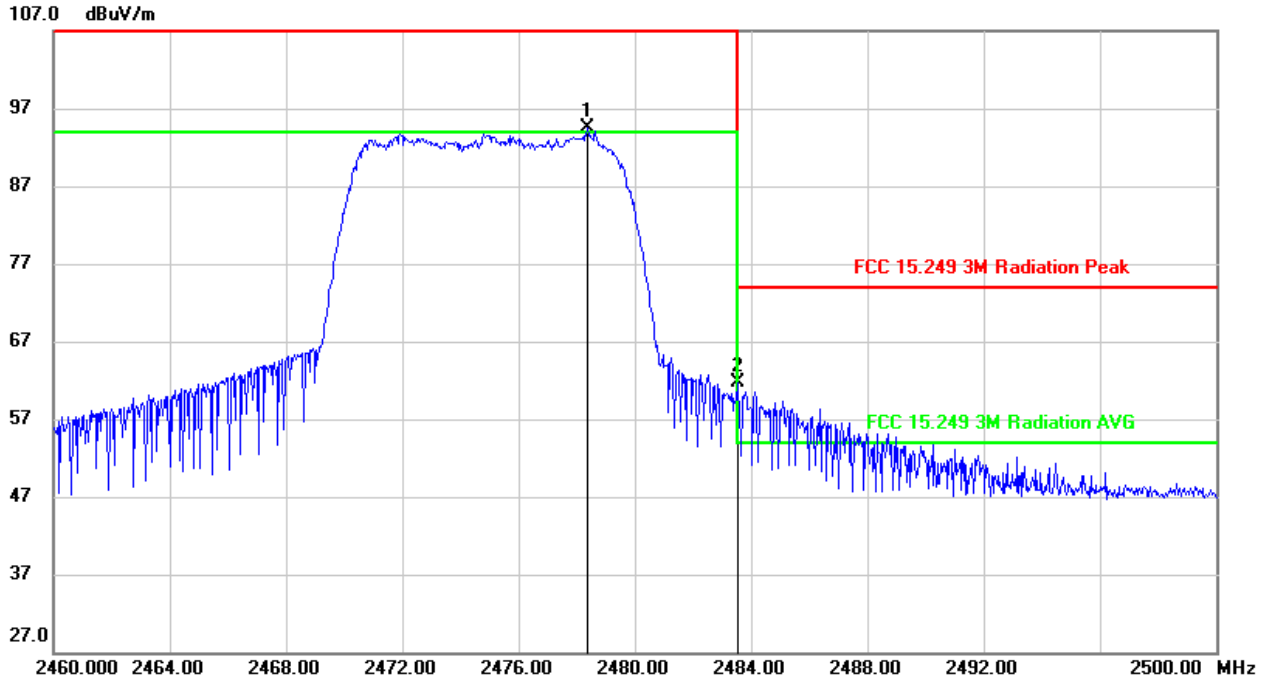
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2447.600	60.58	32.93	93.51	94.00	-0.49	AVG

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. AVG: VBW=1/Ton=1K, where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

**PEAK**

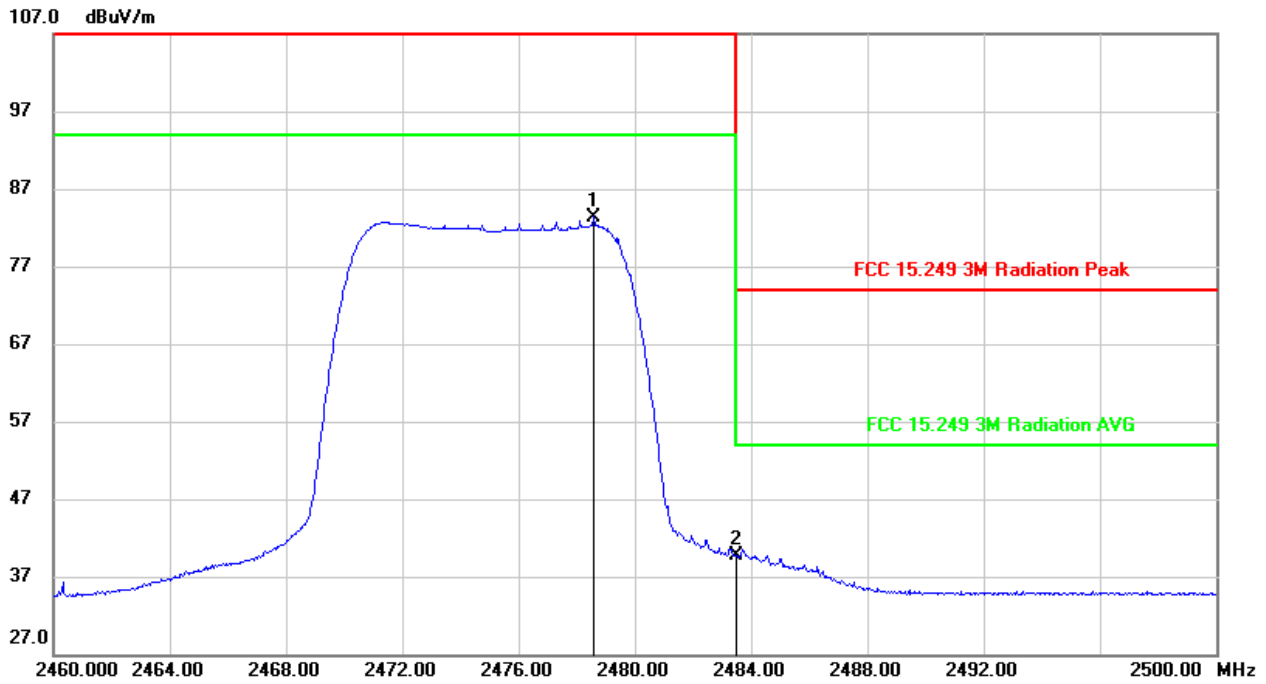


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2478.360	61.64	32.79	94.43	114.00	-19.57	peak
2	2483.500	28.97	32.78	61.75	74.00	-12.25	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



**AVG**



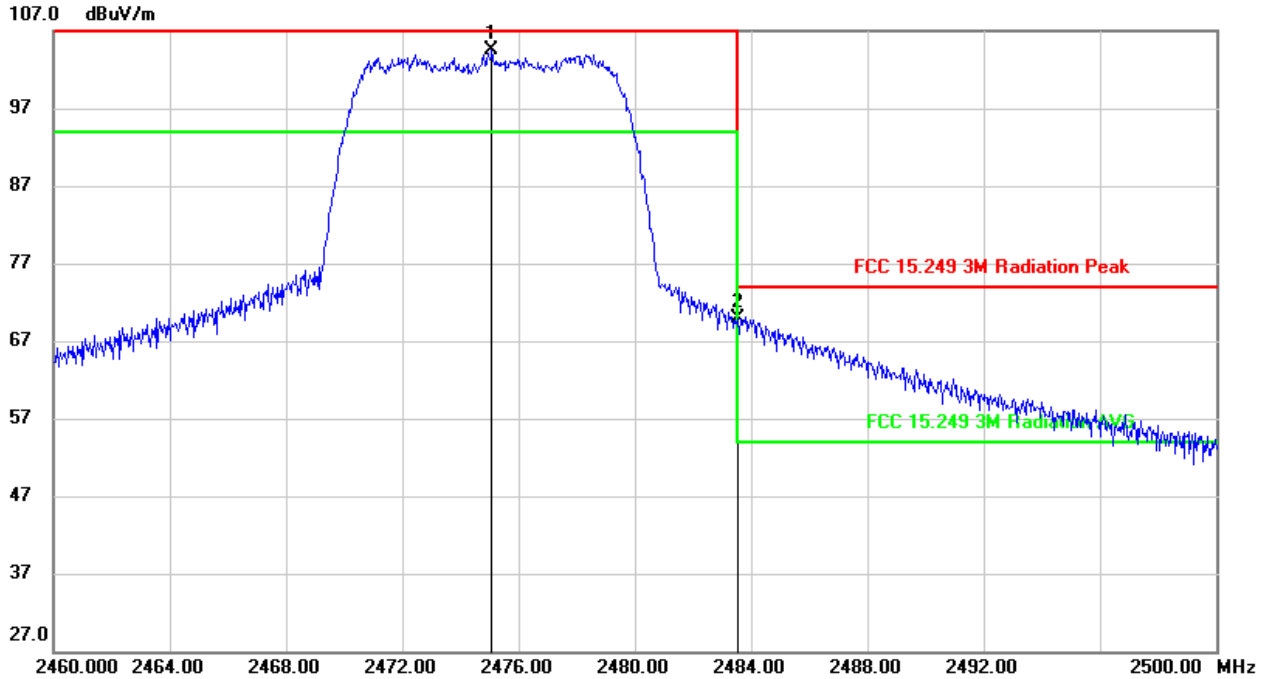
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2478.600	50.61	32.79	83.40	94.00	-10.60	AVG
2	2483.500	6.86	32.78	39.64	54.00	-14.36	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, VERTICAL)**

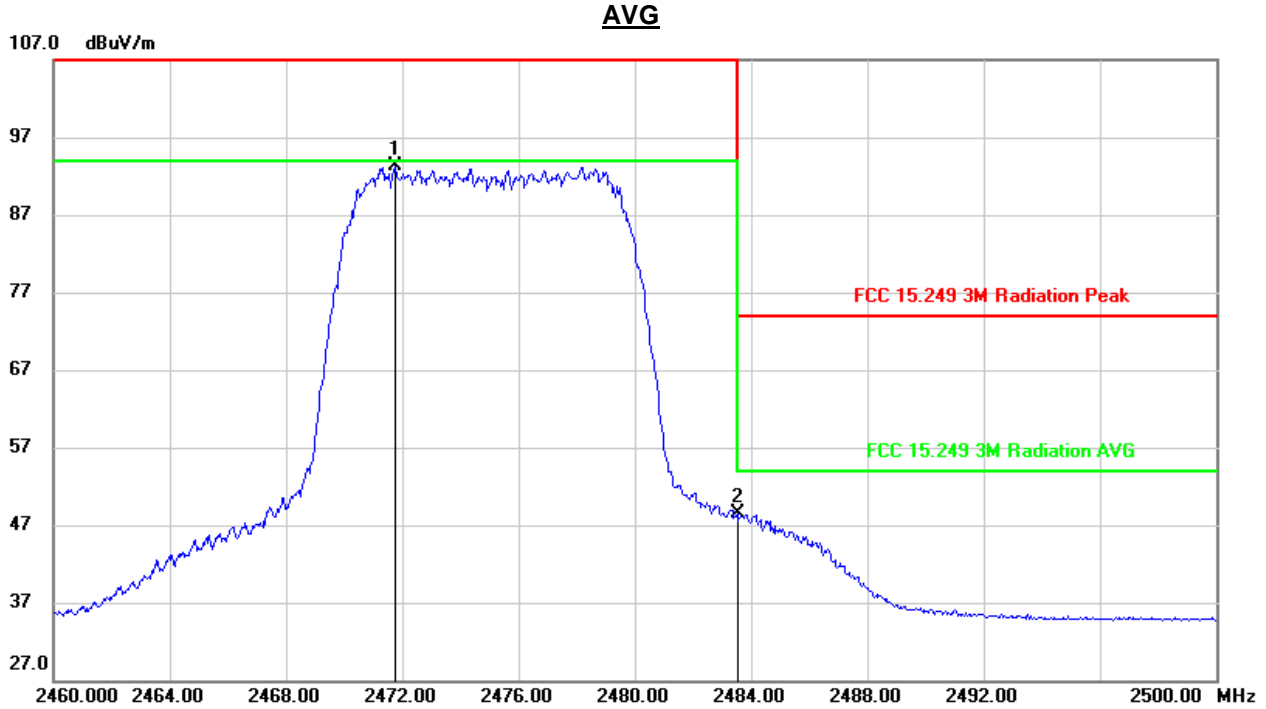
**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2475.080	71.60	32.89	104.49	114.00	-9.51	peak
2	2483.500	37.11	32.88	69.99	74.00	-4.01	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.





No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2471.760	60.36	32.90	93.26	94.00	-0.74	AVG
2	2483.500	15.61	32.88	48.49	54.00	-5.51	AVG

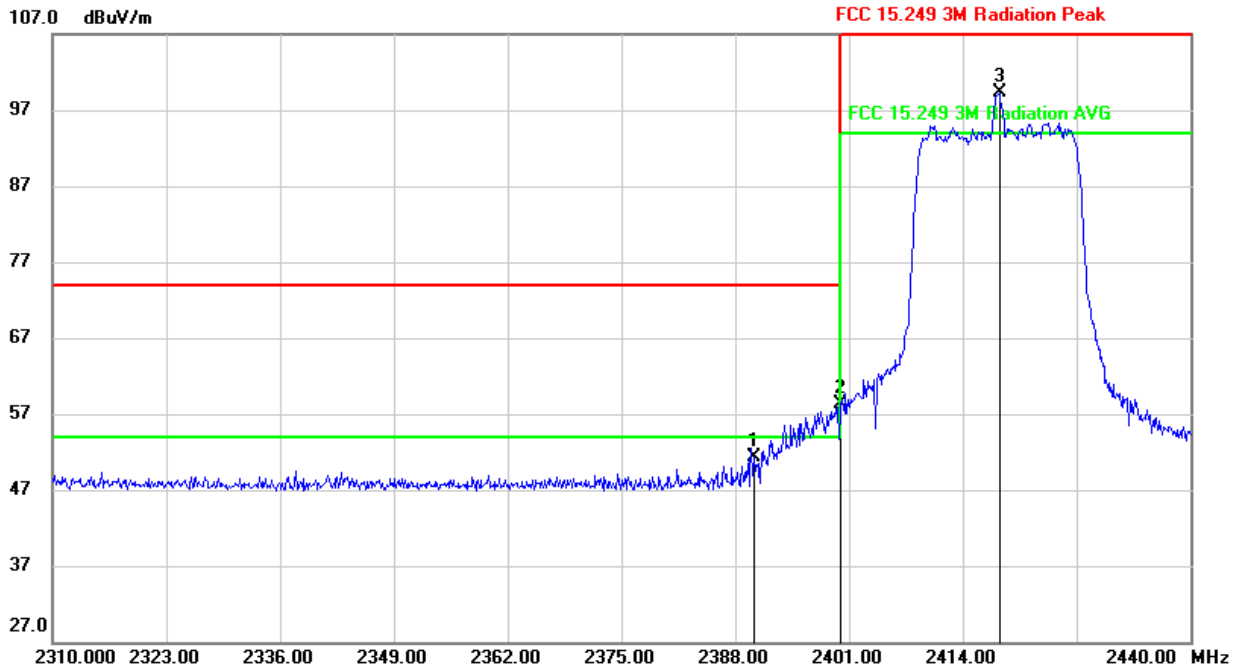
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



QPSK 20MHz Bandwidth Mode

**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, HORIZONTAL)**

**PEAK**

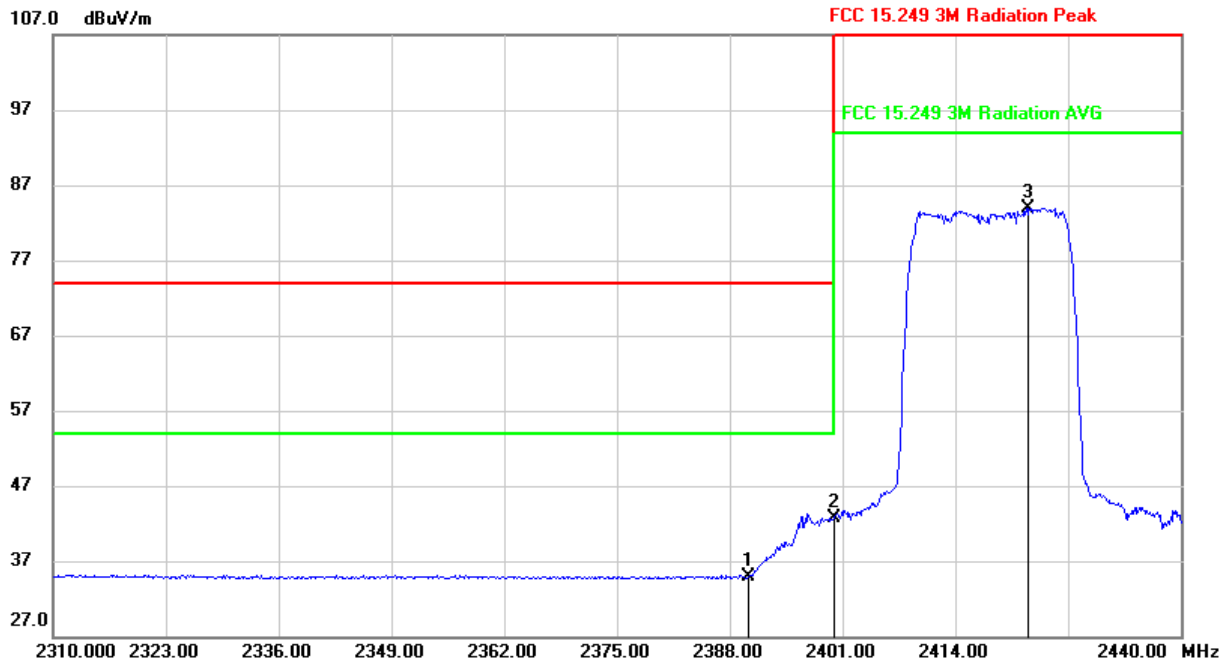


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	18.11	33.14	51.25	74.00	-22.75	peak
2	2400.000	25.23	33.07	58.30	74.00	-15.70	peak
3	2418.160	66.24	32.98	99.22	114.00	-14.78	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



**AVG**



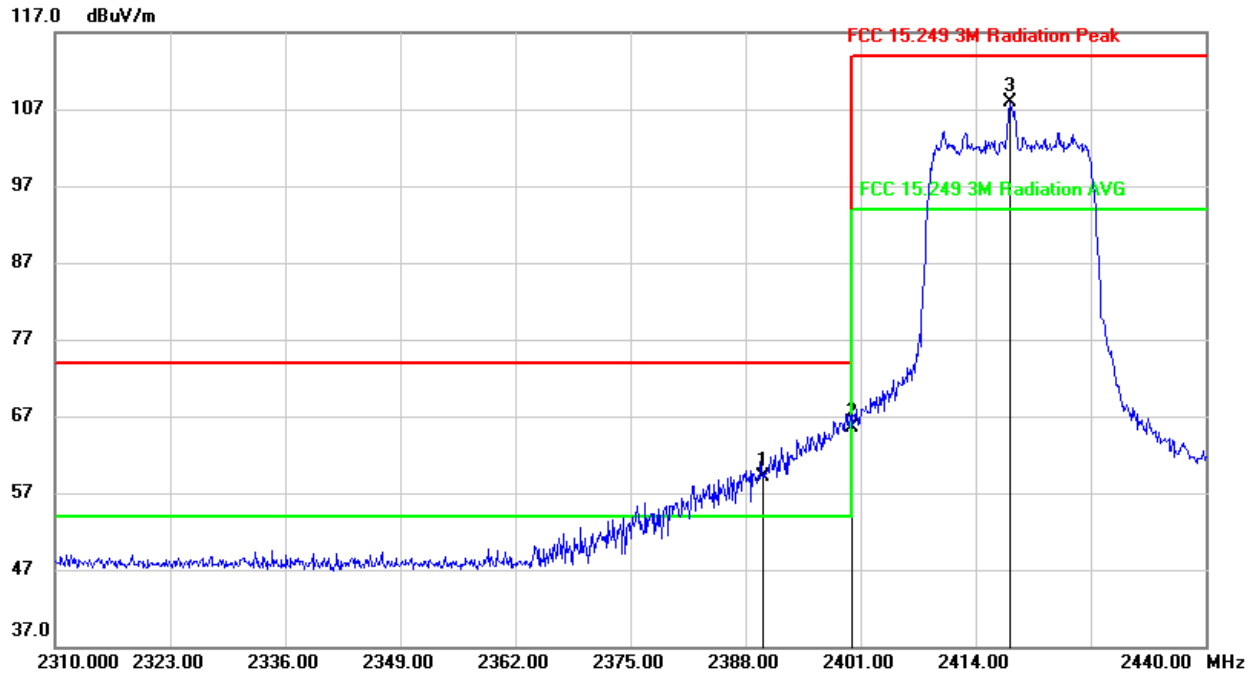
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	1.81	33.14	34.95	54.00	-19.05	AVG
2	2400.000	9.65	33.07	42.72	54.00	-11.28	AVG
3	2422.450	50.99	32.96	83.95	94.00	-10.05	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



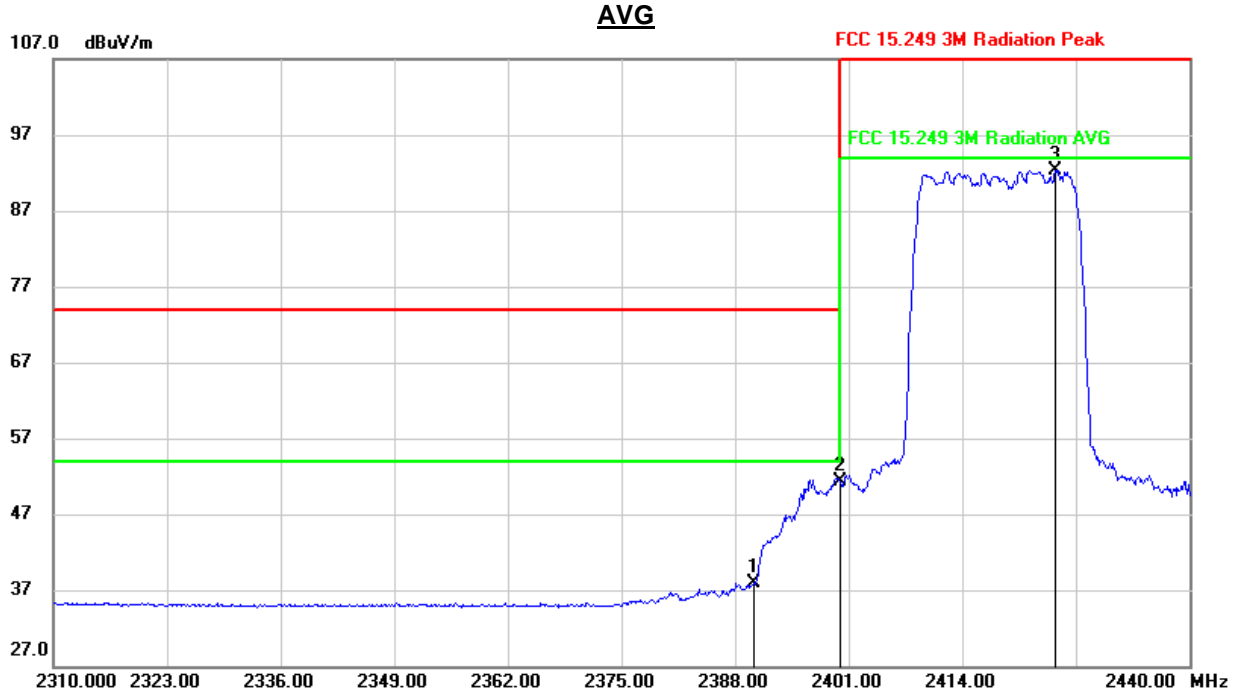
**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, VERTICAL)**

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	25.81	33.24	59.05	74.00	-14.95	peak
2	2400.000	32.42	33.17	65.59	74.00	-8.41	peak
3	2417.900	74.76	33.08	107.84	114.00	-6.16	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



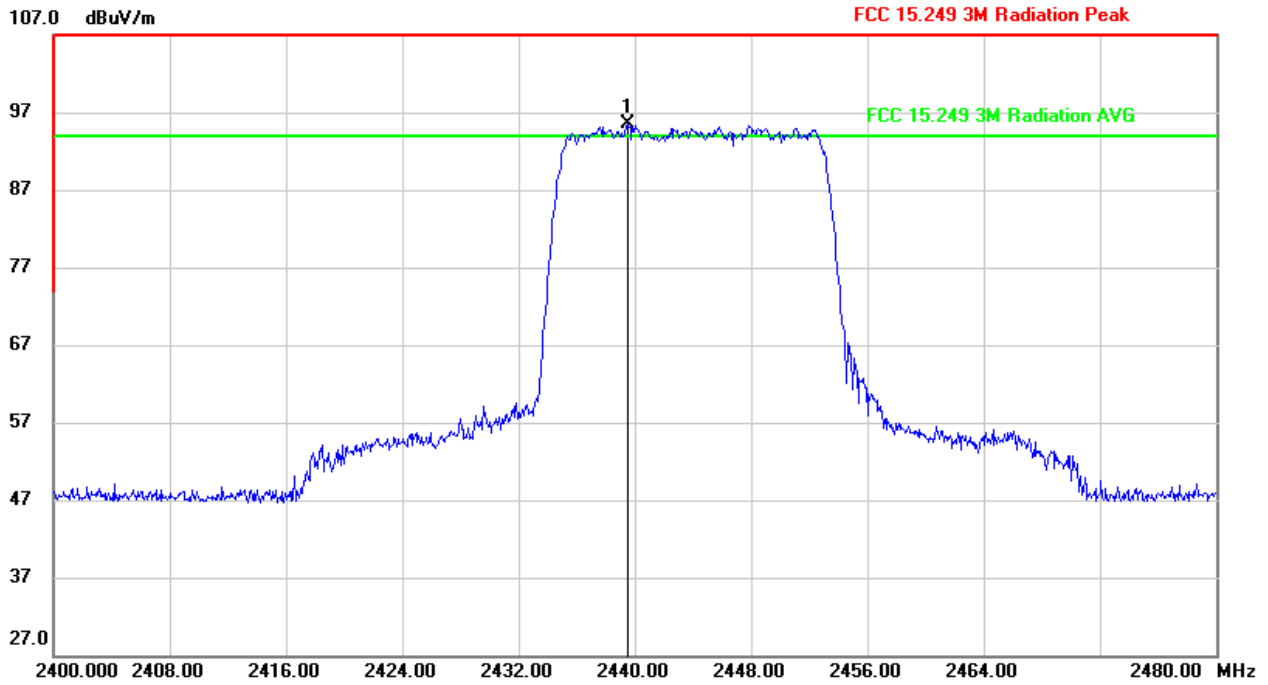
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	4.57	33.24	37.81	54.00	-16.19	AVG
2	2400.000	18.17	33.17	51.34	54.00	-2.66	AVG
3	2424.660	59.27	33.04	92.31	94.00	-1.69	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**FIELD STRENGTH OF INTENTIONAL EMISSIONS (MID CHANNEL, HORIZONTAL)**

**PEAK**

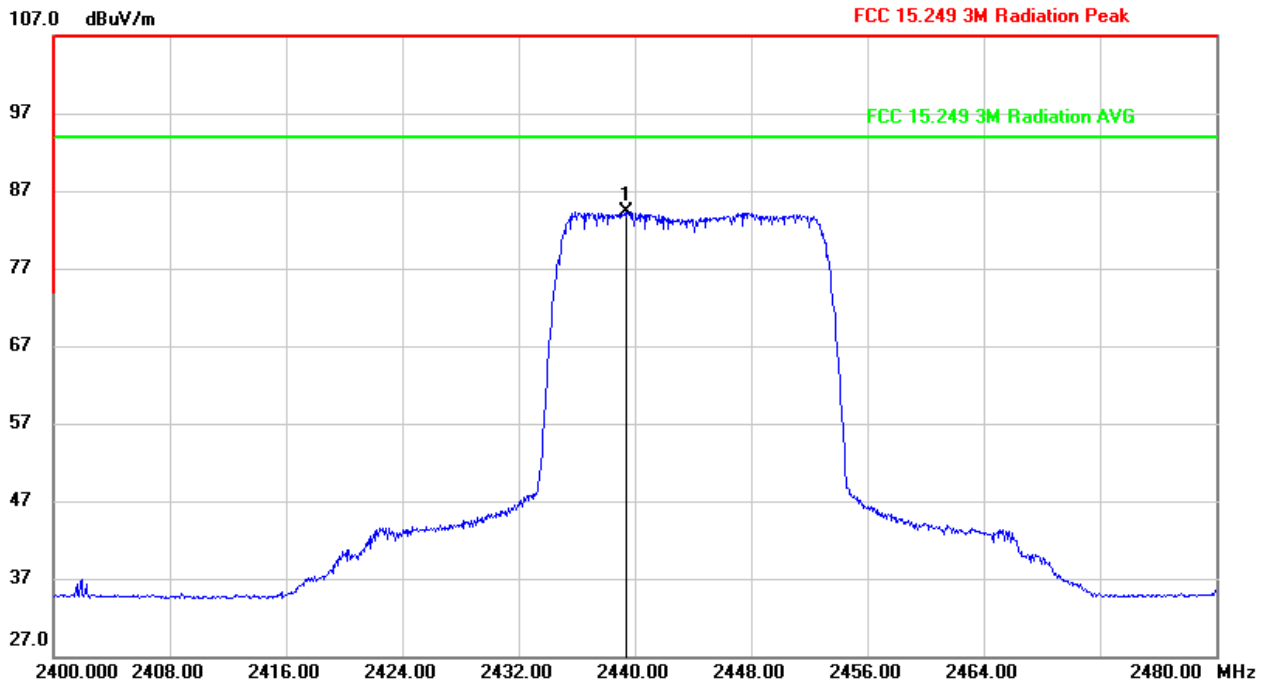


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2439.520	62.63	32.87	95.50	114.00	-18.50	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



**AVG**



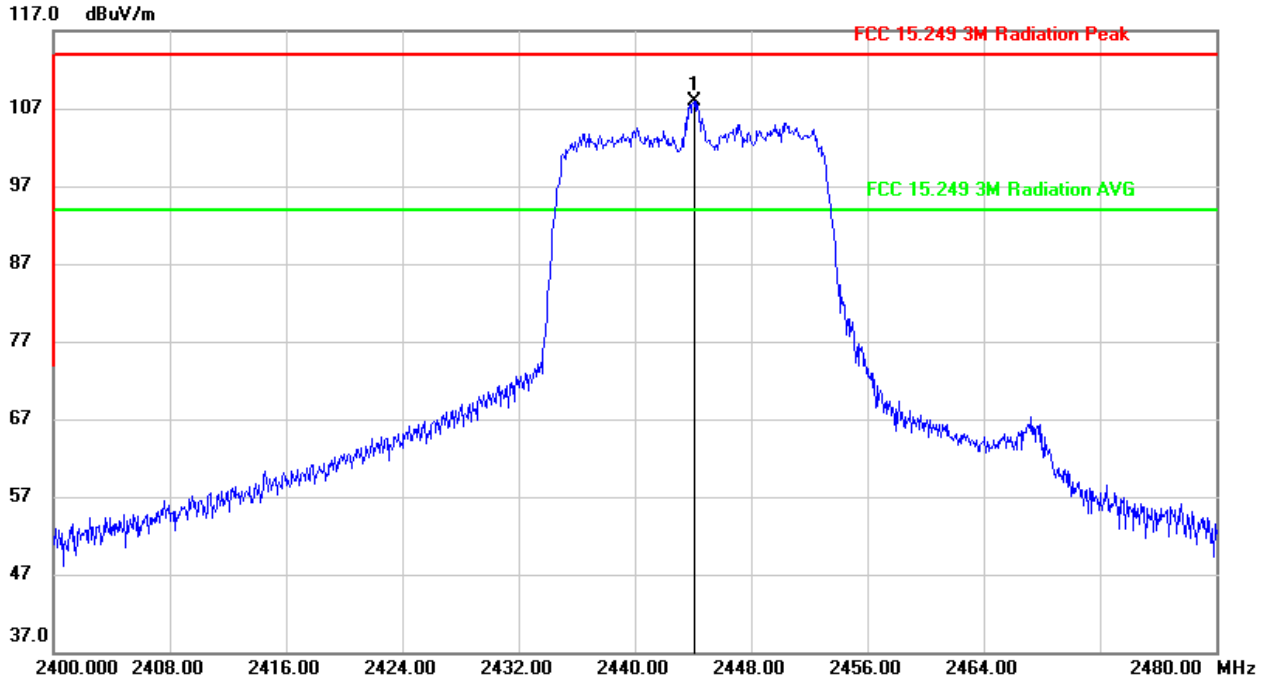
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2439.440	51.45	32.87	84.32	94.00	-9.68	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**FIELD STRENGTH OF INTENTIONAL EMISSIONS (MID CHANNEL, VERTICAL)**

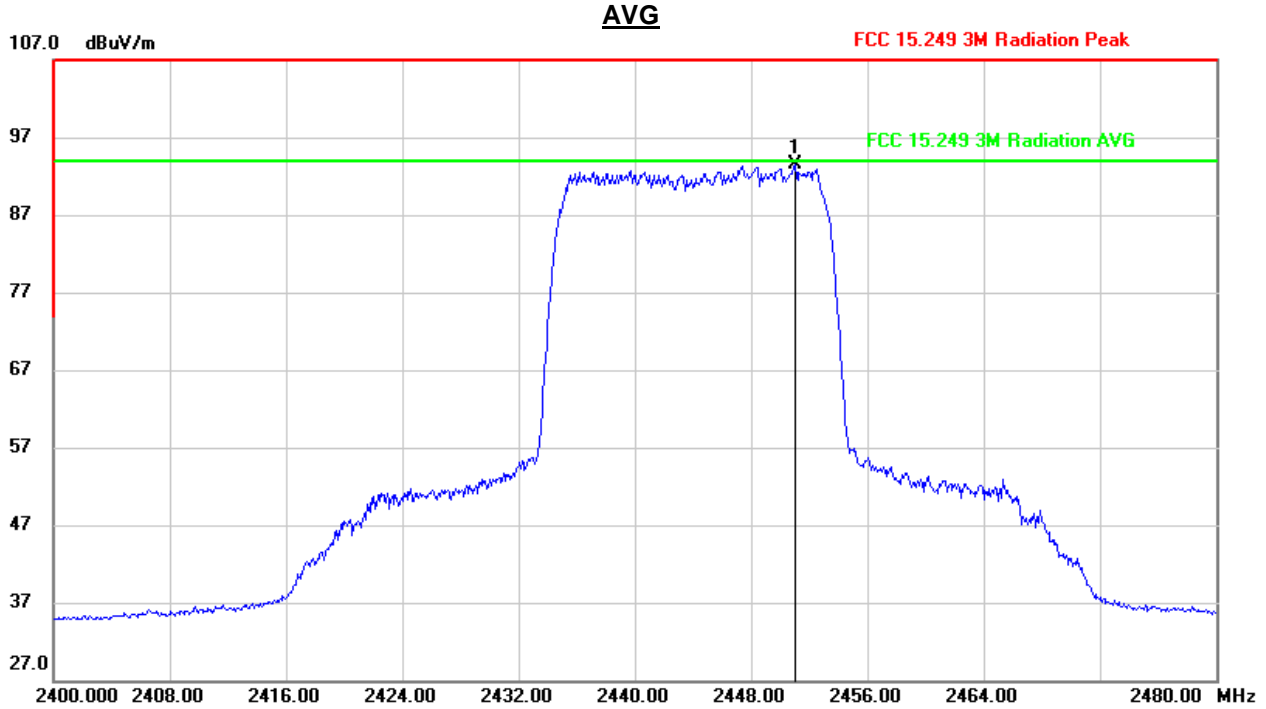
**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2444.080	74.91	32.95	107.86	114.00	-6.14	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.





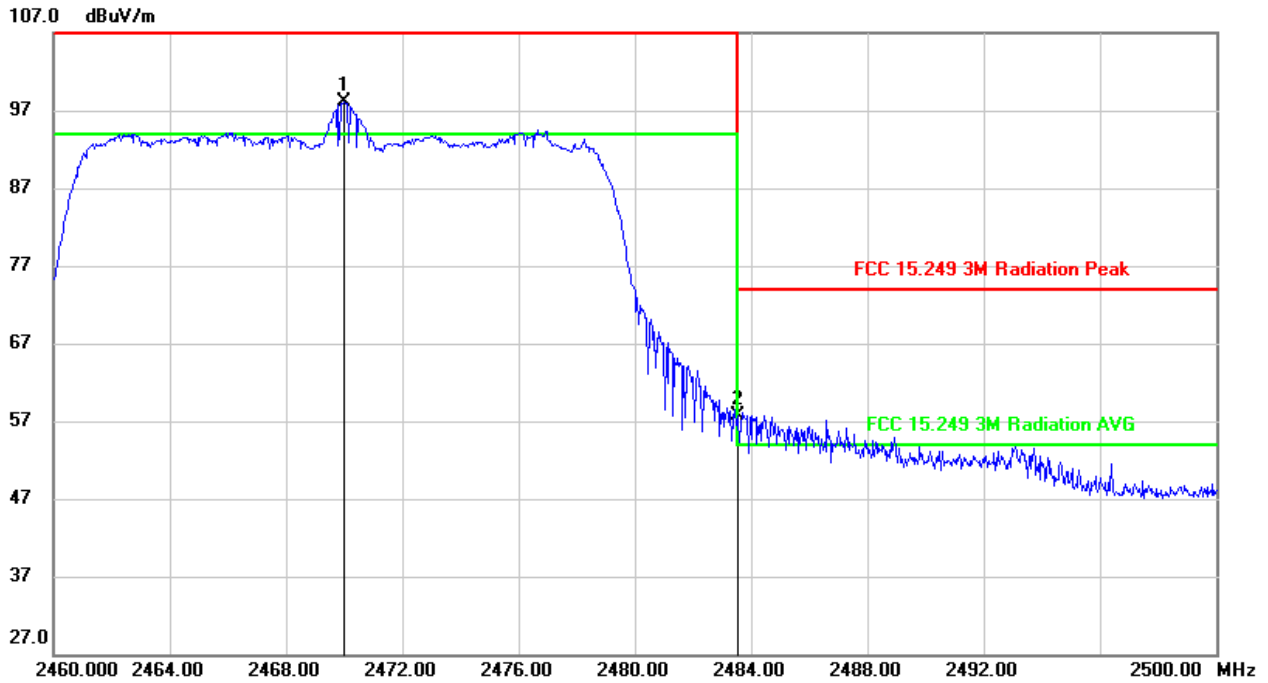
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2451.040	60.49	32.92	93.41	94.00	-0.59	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



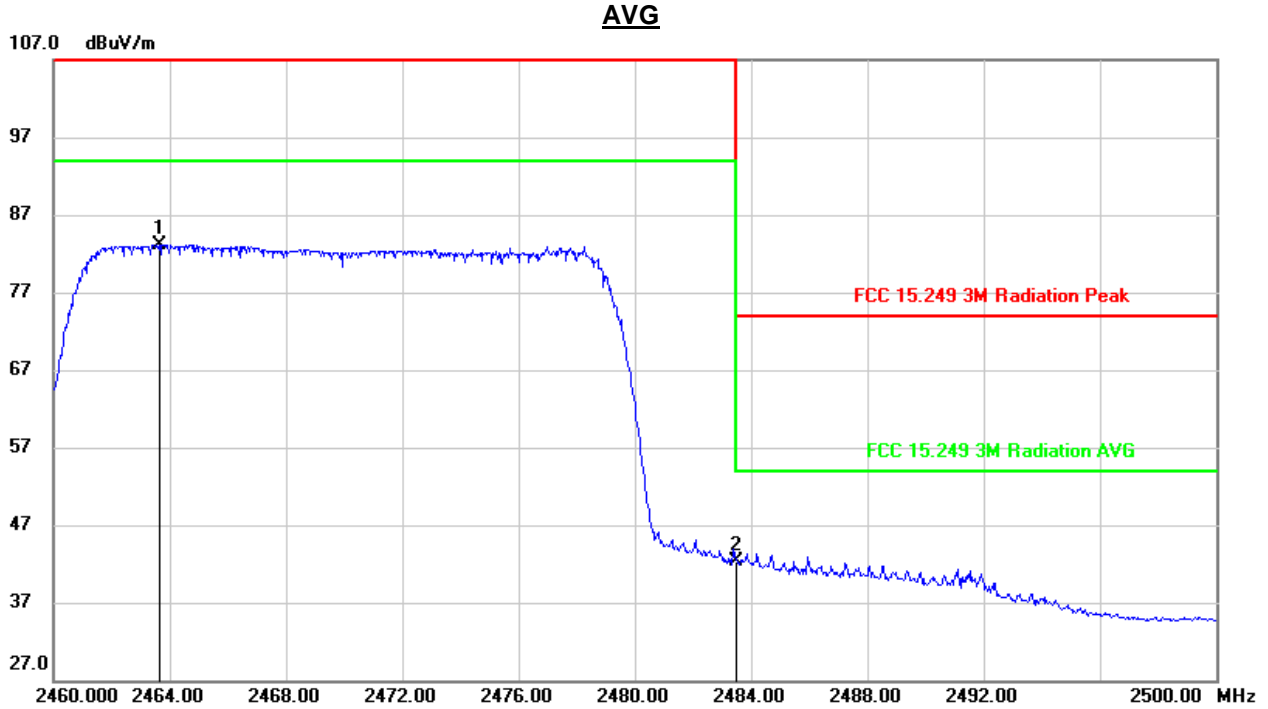
**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2470.000	65.25	32.80	98.05	114.00	-15.95	peak
2	2483.500	25.00	32.78	57.78	74.00	-16.22	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



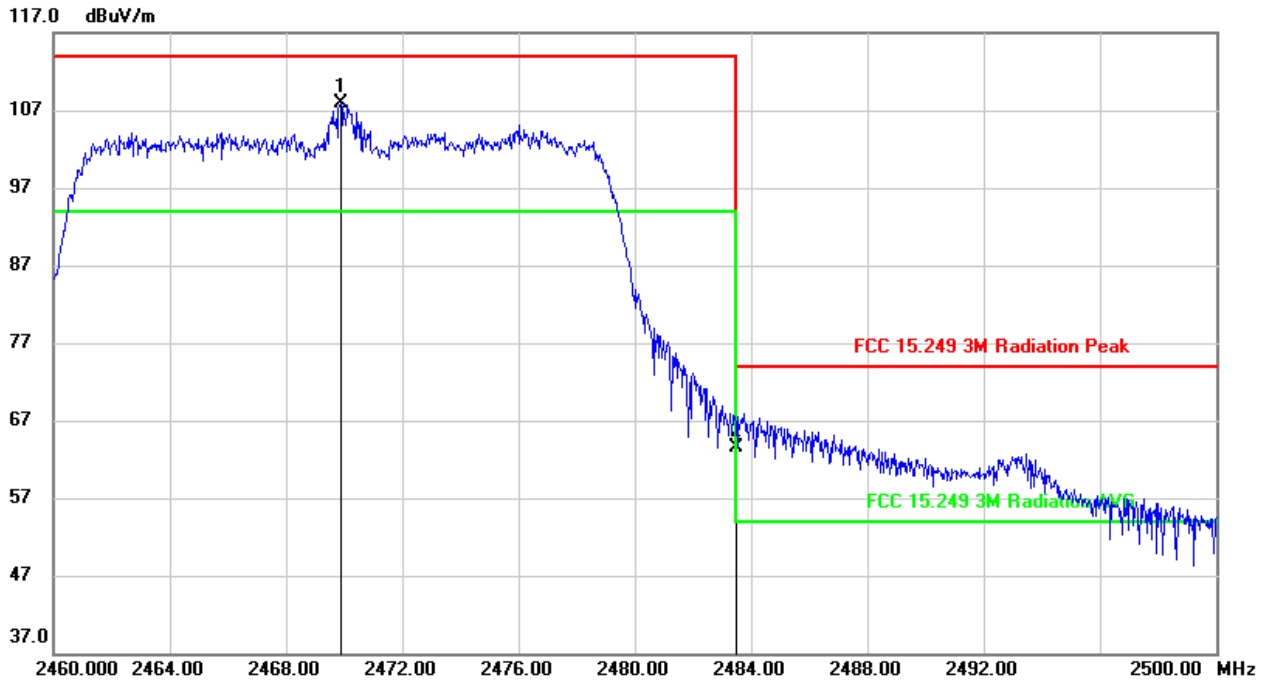
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.640	50.32	32.80	83.12	94.00	-10.88	AVG
2	2483.500	9.54	32.78	42.32	54.00	-11.68	AVG

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. AVG: VBW=1/Ton=1K, where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, VERTICAL)**

**PEAK**

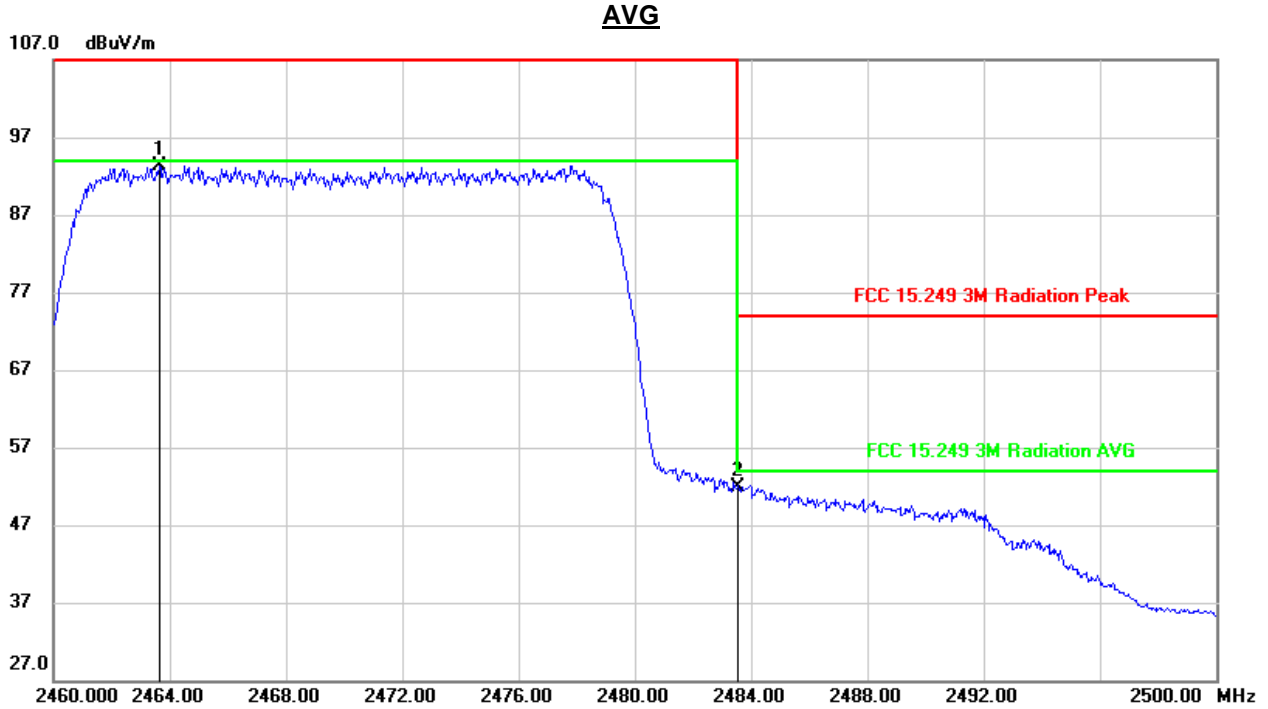


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.880	75.01	32.90	107.91	114.00	-6.09	peak
2	2483.500	30.63	32.88	63.51	74.00	-10.49	peak

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

2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.640	60.33	32.90	93.23	94.00	-0.77	AVG
2	2483.500	19.08	32.88	51.96	54.00	-2.04	AVG

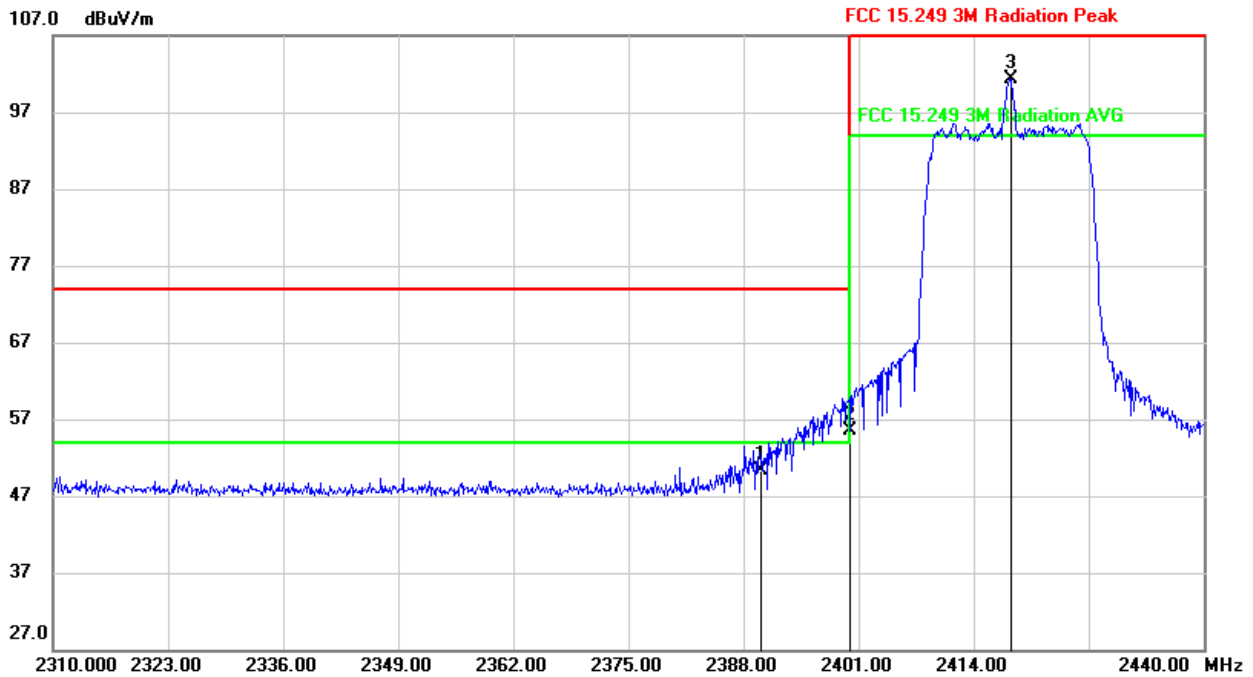
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



OFDM 20MHz Bandwidth Mode

**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, HORIZONTAL)**

**PEAK**

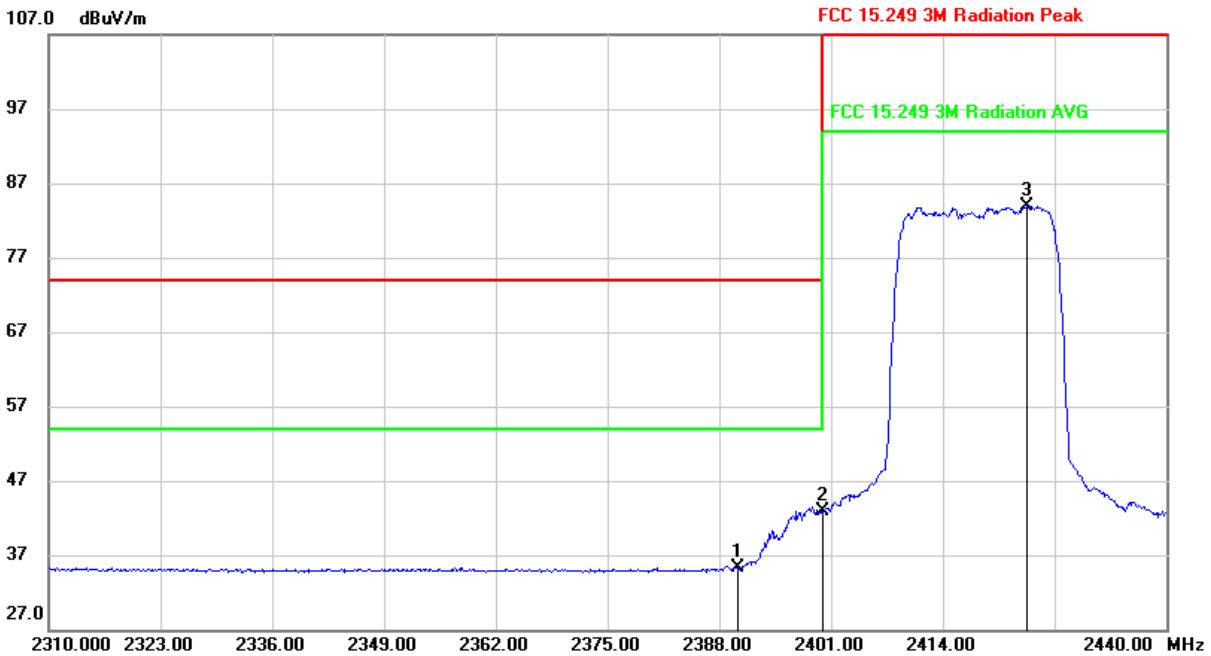


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	17.24	33.14	50.38	74.00	-23.62	peak
2	2400.000	22.49	33.07	55.56	74.00	-18.44	peak
3	2418.160	68.37	32.98	101.35	114.00	-12.65	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



**AVG**



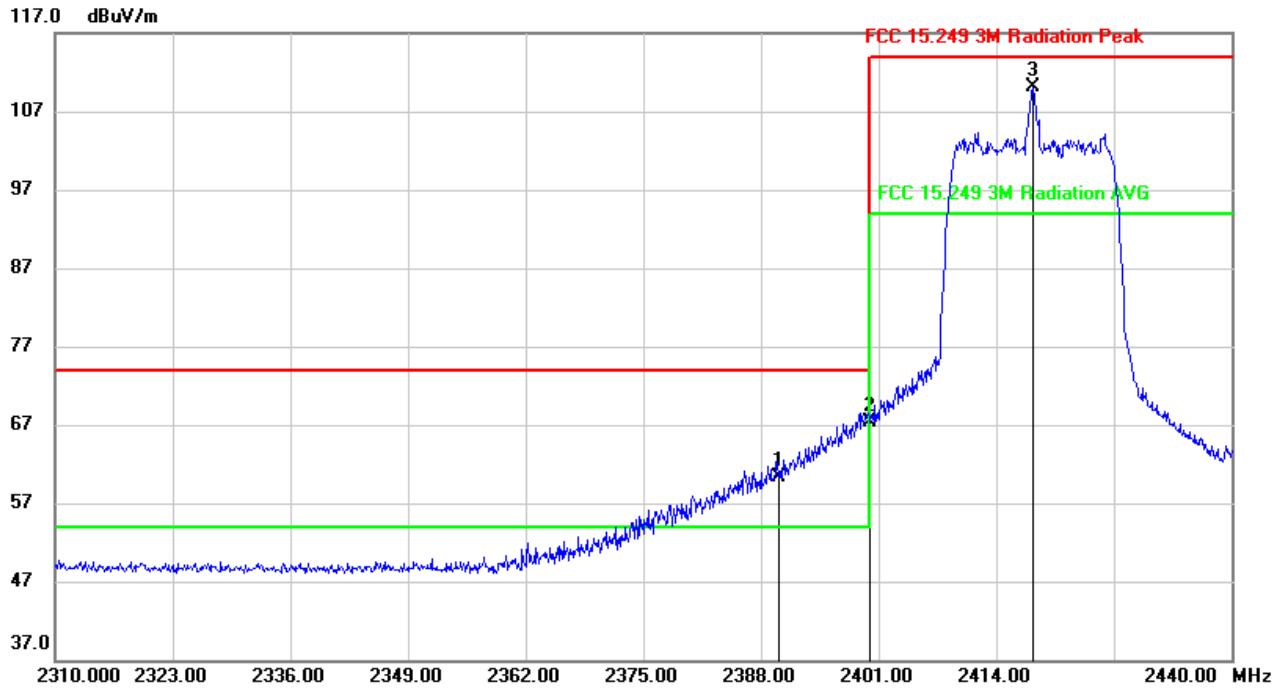
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	2.26	33.14	35.40	54.00	-18.60	AVG
2	2400.000	9.90	33.07	42.97	54.00	-11.03	AVG
3	2423.750	51.00	32.95	83.95	94.00	-10.05	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, VERTICAL)**

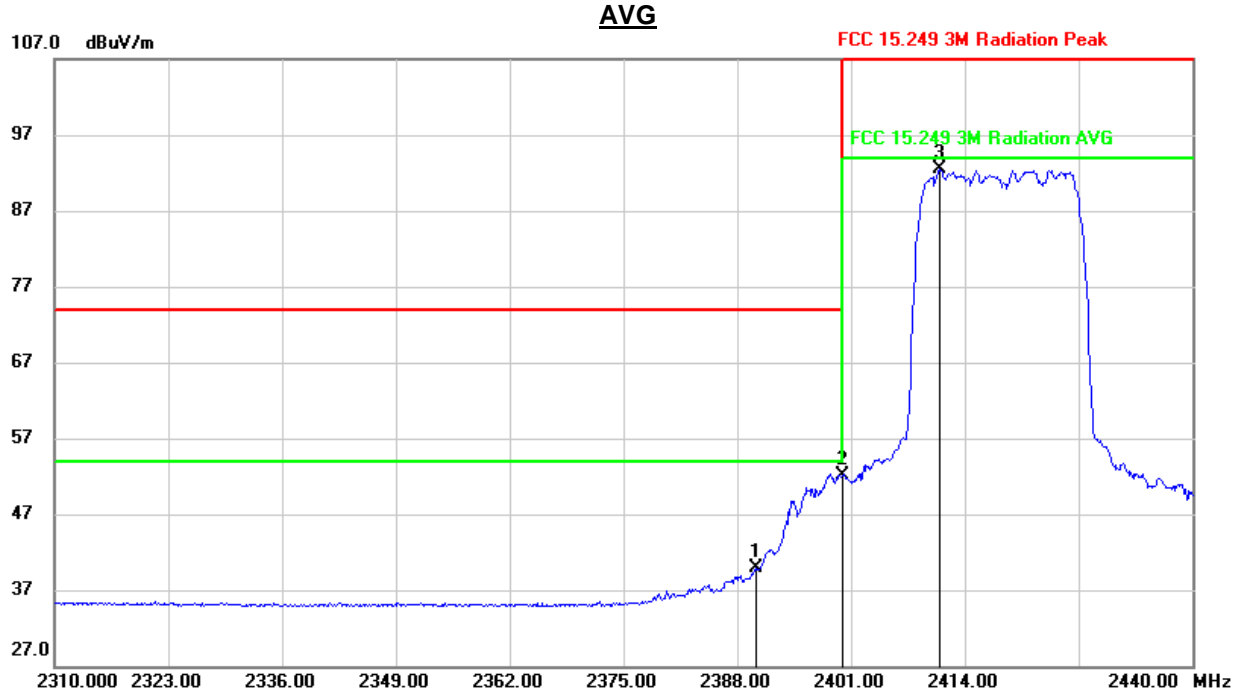
**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.98	33.24	60.22	74.00	-13.78	peak
2	2400.000	34.05	33.17	67.22	74.00	-6.78	peak
3	2418.030	76.97	33.08	110.05	114.00	-3.95	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.





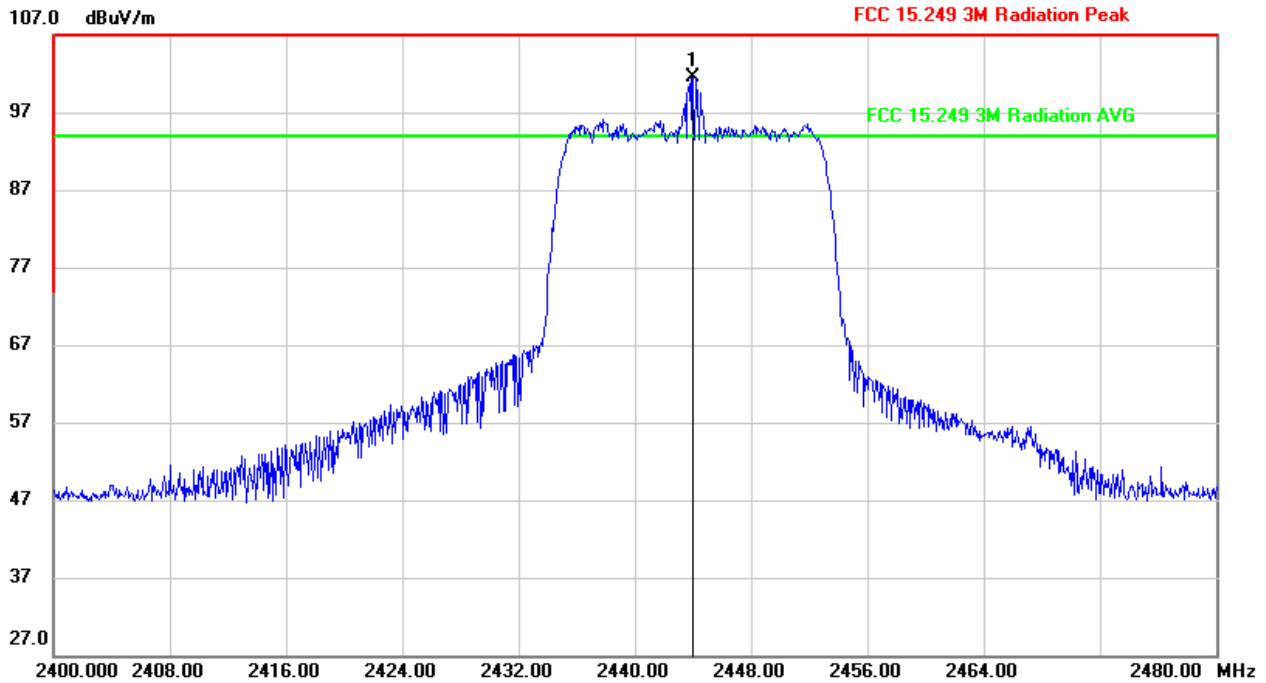
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	6.63	33.24	39.87	54.00	-14.13	AVG
2	2400.000	18.85	33.17	52.02	54.00	-1.98	AVG
3	2411.140	59.49	33.11	92.60	94.00	-1.40	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**FIELD STRENGTH OF INTENTIONAL EMISSIONS (MID CHANNEL, HORIZONTAL)**

**PEAK**

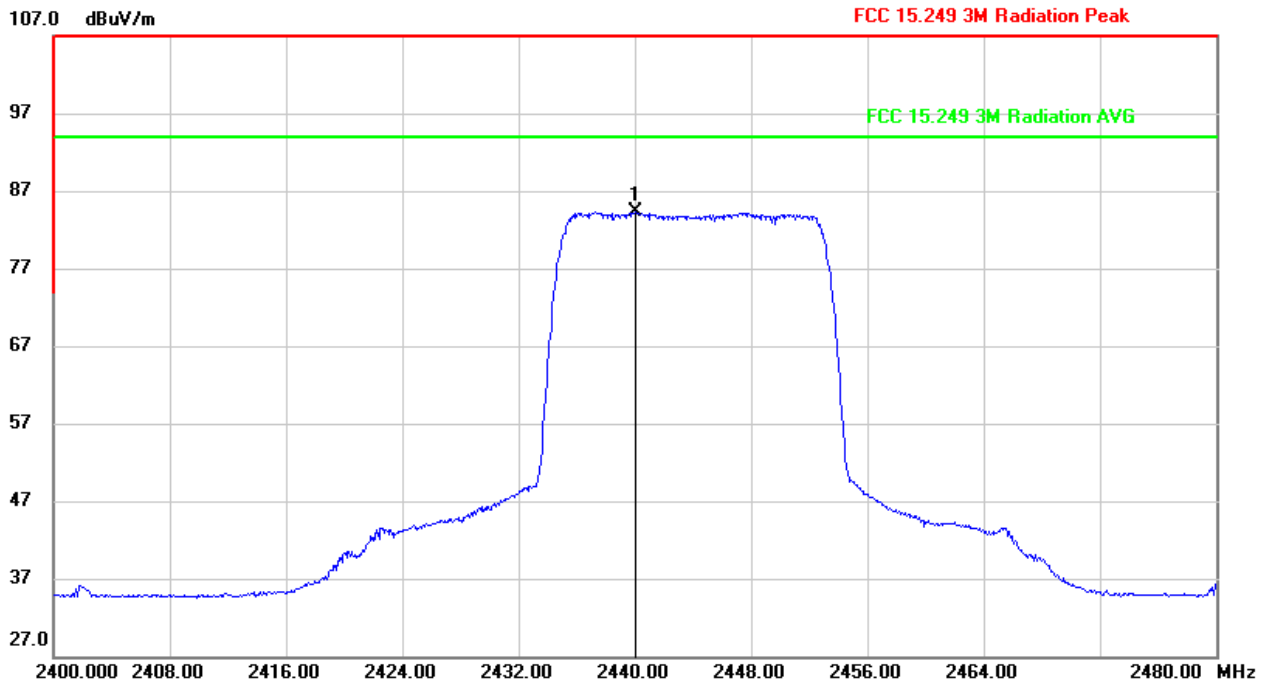


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2444.000	68.72	32.85	101.57	114.00	-12.43	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



**AVG**



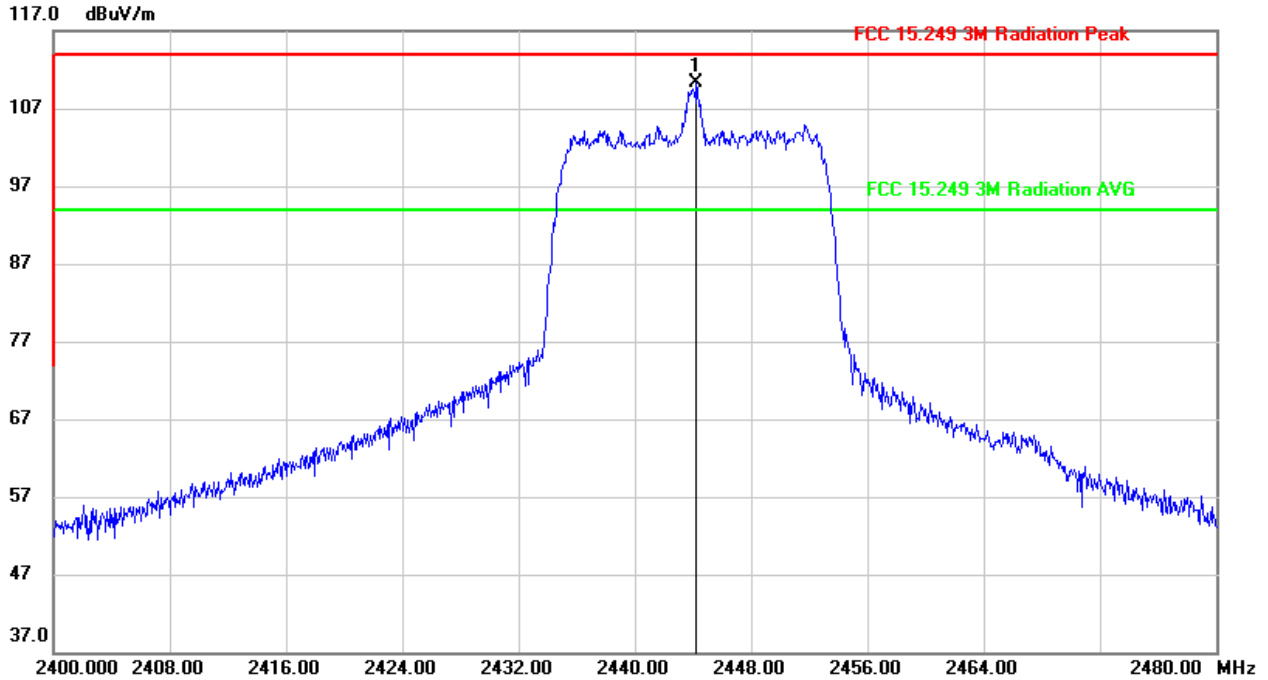
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2440.000	51.36	32.87	84.23	94.00	-9.77	AVG

- 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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.
  5. For transmit duration, please refer to clause 7.1.
  6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



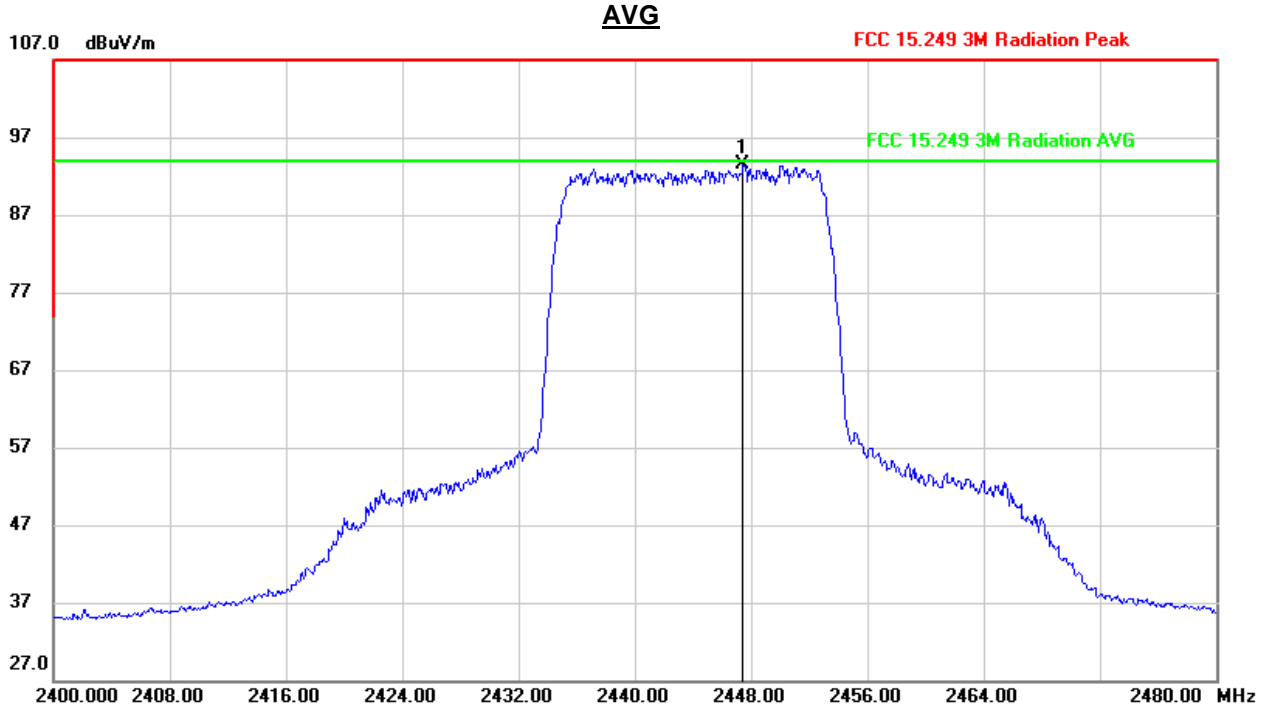
**FIELD STRENGTH OF INTENTIONAL EMISSIONS (MID CHANNEL, VERTICAL)**

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2444.240	77.27	32.94	110.21	114.00	-3.79	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



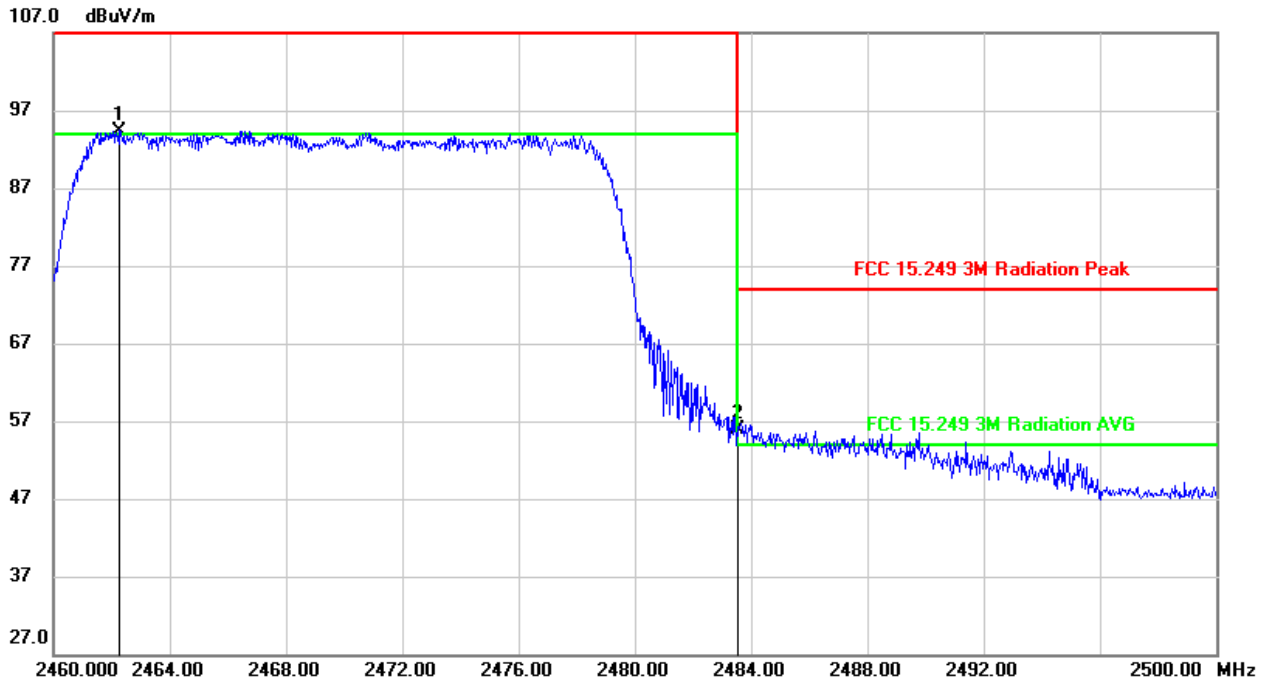
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2447.440	60.47	32.94	93.41	94.00	-0.59	AVG

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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



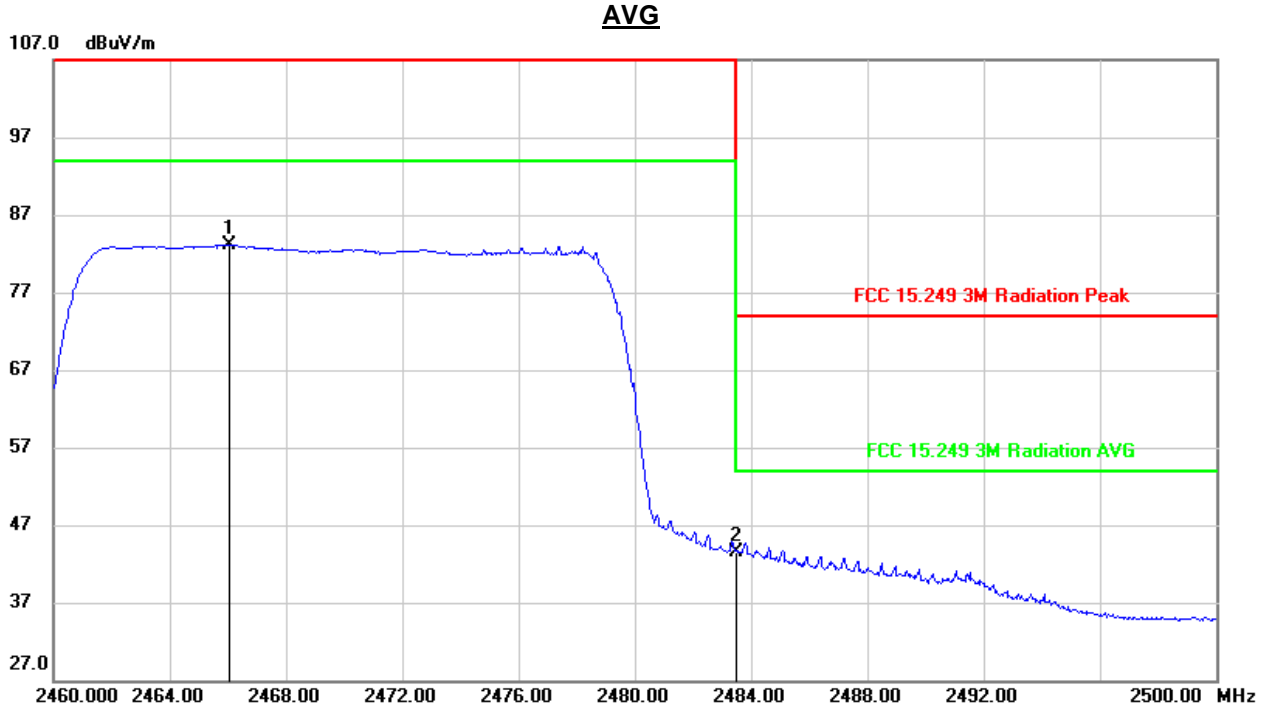
**RESTRICTED BANDEGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

**PEAK**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.240	61.59	32.81	94.40	114.00	-19.60	peak
2	2483.500	23.06	32.78	55.84	74.00	-18.16	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



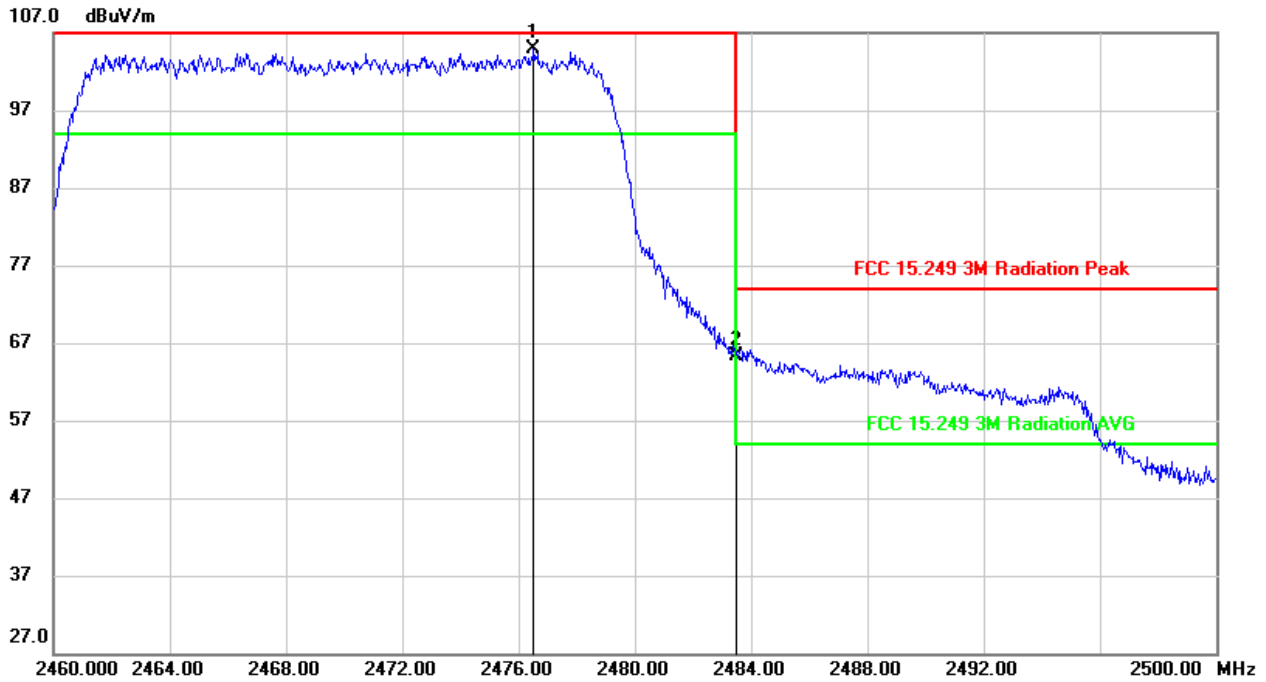
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2466.040	50.35	32.81	83.16	94.00	-10.84	AVG
2	2483.500	10.79	32.78	43.57	54.00	-10.43	AVG

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. Peak: Peak detector.  
 4. AVG: VBW=1/Ton=1K, where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result



**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, VERTICAL)**

**PEAK**



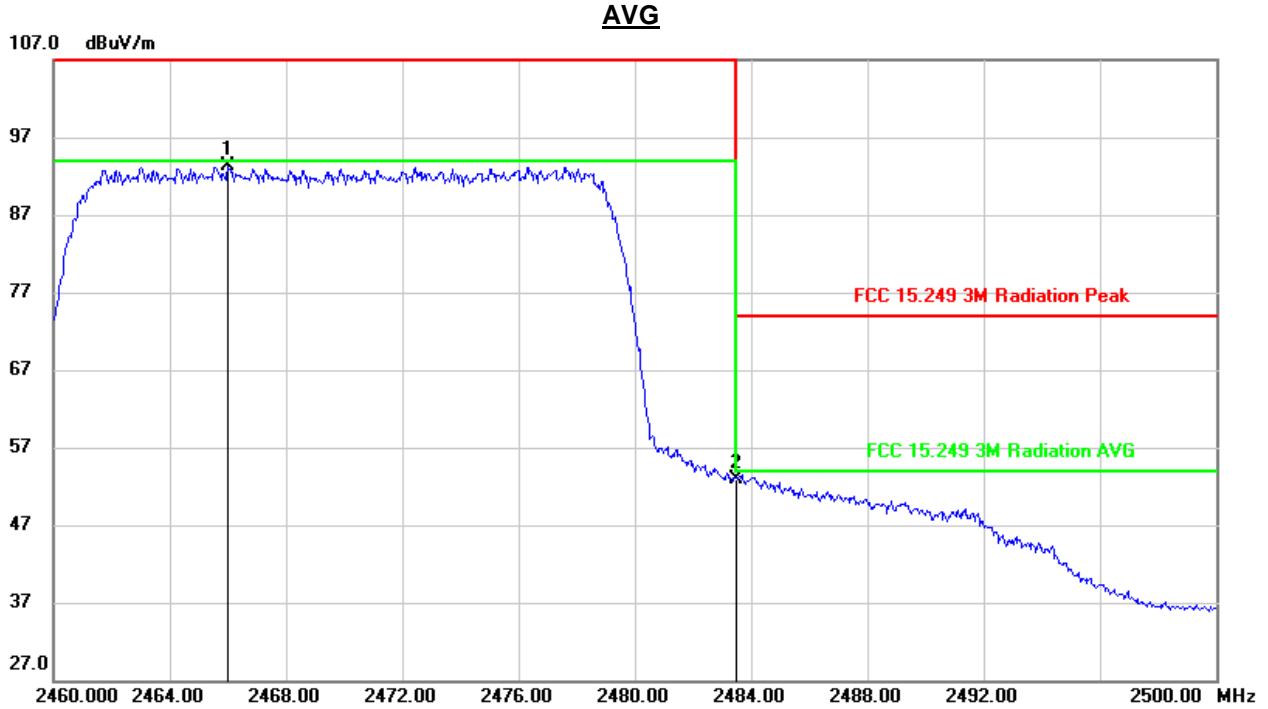
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2476.520	71.92	32.90	104.82	114.00	-9.18	peak
2	2483.500	32.39	32.88	65.27	74.00	-8.73	peak

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

2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.





No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2466.000	60.31	32.91	93.22	94.00	-0.78	AVG
2	2483.500	20.04	32.88	52.92	54.00	-1.08	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. AVG:  $VBW=1/Ton=1K$ , where: Ton is transmit duration.  
 5. For transmit duration, please refer to clause 7.1.  
 6. About the AVG value of fundamental frequency, we only mark the worse frequency point, the others point are deemed to comply with AV limit include the point mark in the Peak result

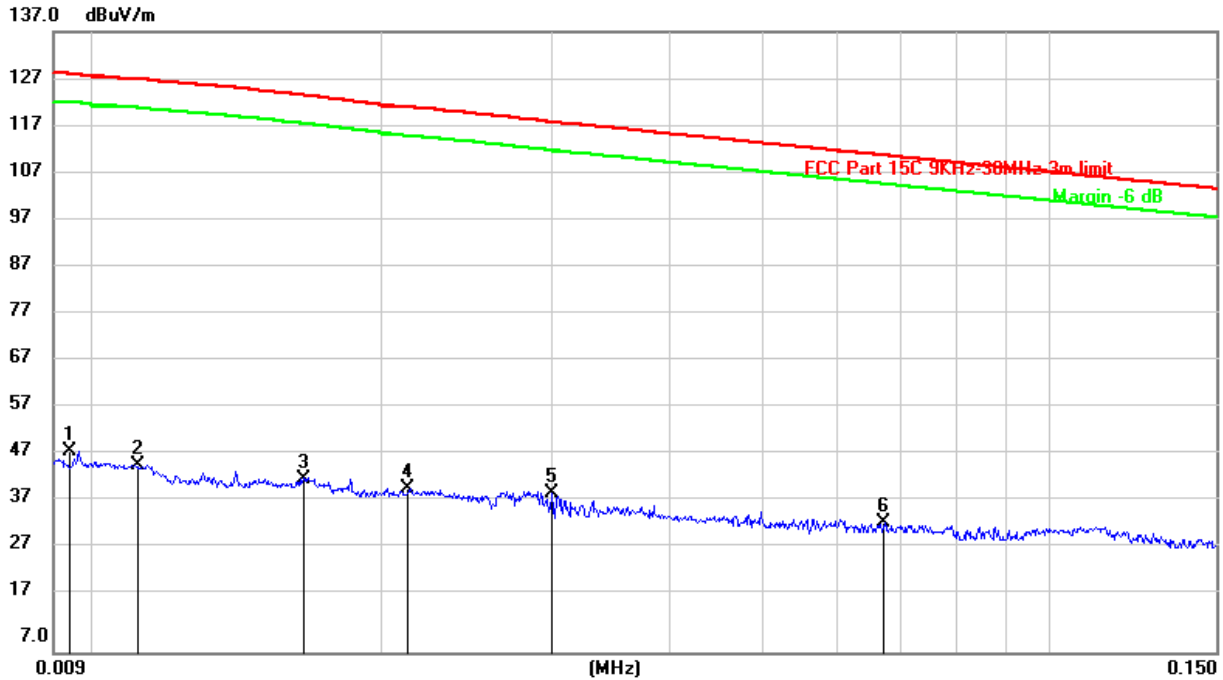


### 8.3.SPURIOUS EMISSIONS BELOW 30M (WORST-CASE CONFIGURATION)

QPSK 20MHz Bandwidth Mode

#### SPURIOUS EMISSIONS BELOW 30MHz (MIDDLE CHANNEL, HORIZONTAL)

9KHz~150KHz

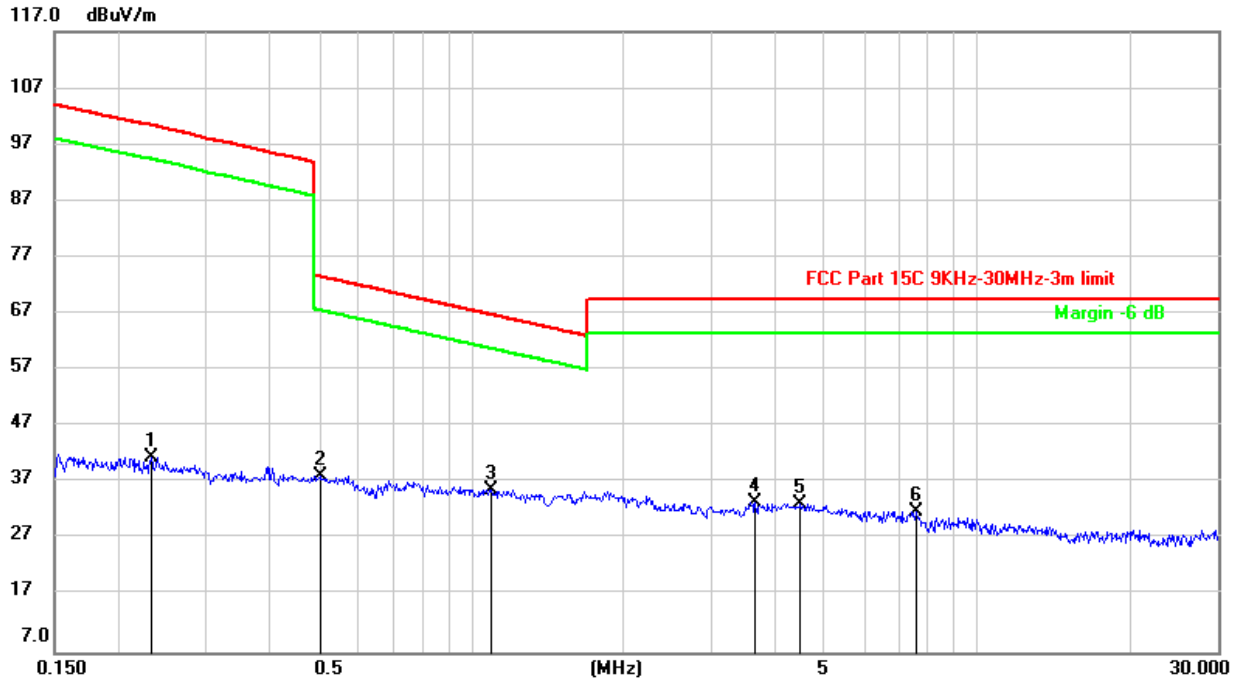


No.	Frequency (KHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0094	28.99	20.26	49.25	128.06	-78.81	peak
2	0.0111	26.02	20.22	46.24	126.94	-80.70	peak
3	0.0165	23.11	20.27	43.38	123.69	-80.31	peak
4	0.0212	20.84	20.31	41.15	121.16	-80.01	peak
5	0.0300	19.92	20.31	40.23	118.06	-77.83	peak
6	0.0670	13.71	20.31	34.02	111.10	-77.08	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. Peak: Peak detector.



**150KHz~30MHz**



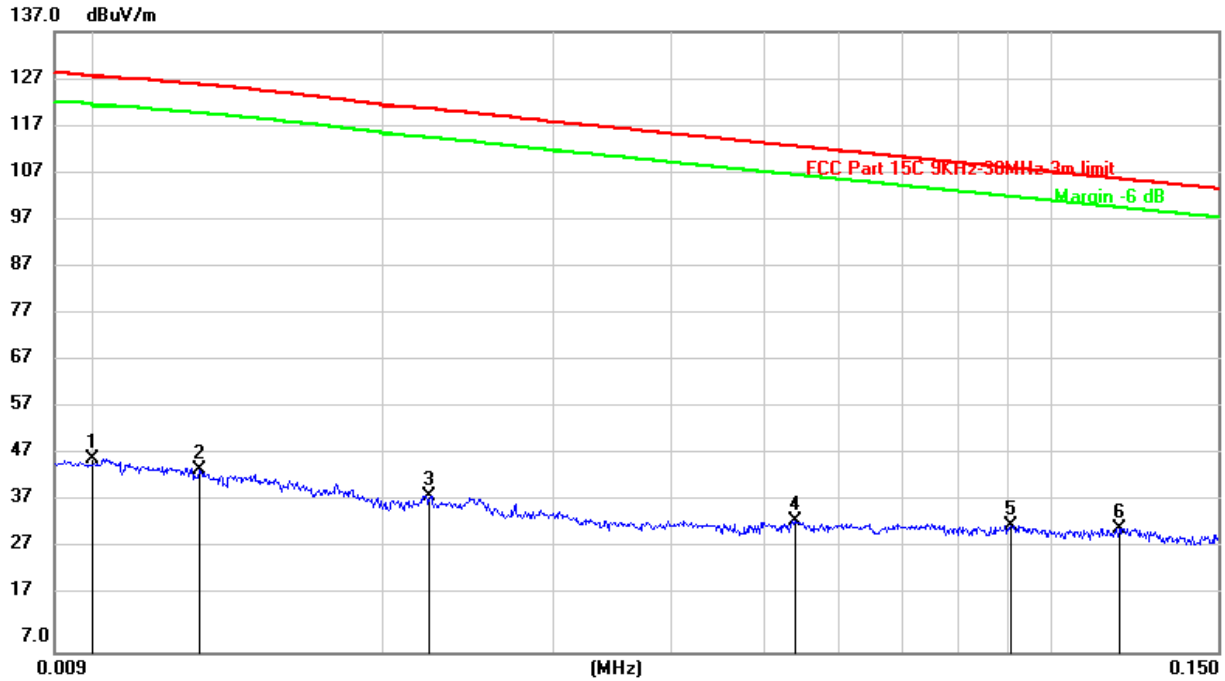
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2328	21.13	20.34	41.47	100.43	-58.96	peak
2	0.5020	18.01	20.24	38.25	73.61	-35.36	peak
3	1.0939	15.43	20.41	35.84	66.83	-30.99	peak
4	3.6417	12.49	21.00	33.49	69.54	-36.05	peak
5	4.4775	12.39	20.95	33.34	69.54	-36.20	peak
6	7.6059	10.96	20.94	31.90	69.54	-37.64	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. Peak: Peak detector.



**SPURIOUS EMISSIONS BELOW 30MHz (MIDDLE CHANNEL, VERTICAL)**

**9KHz~150KHz**

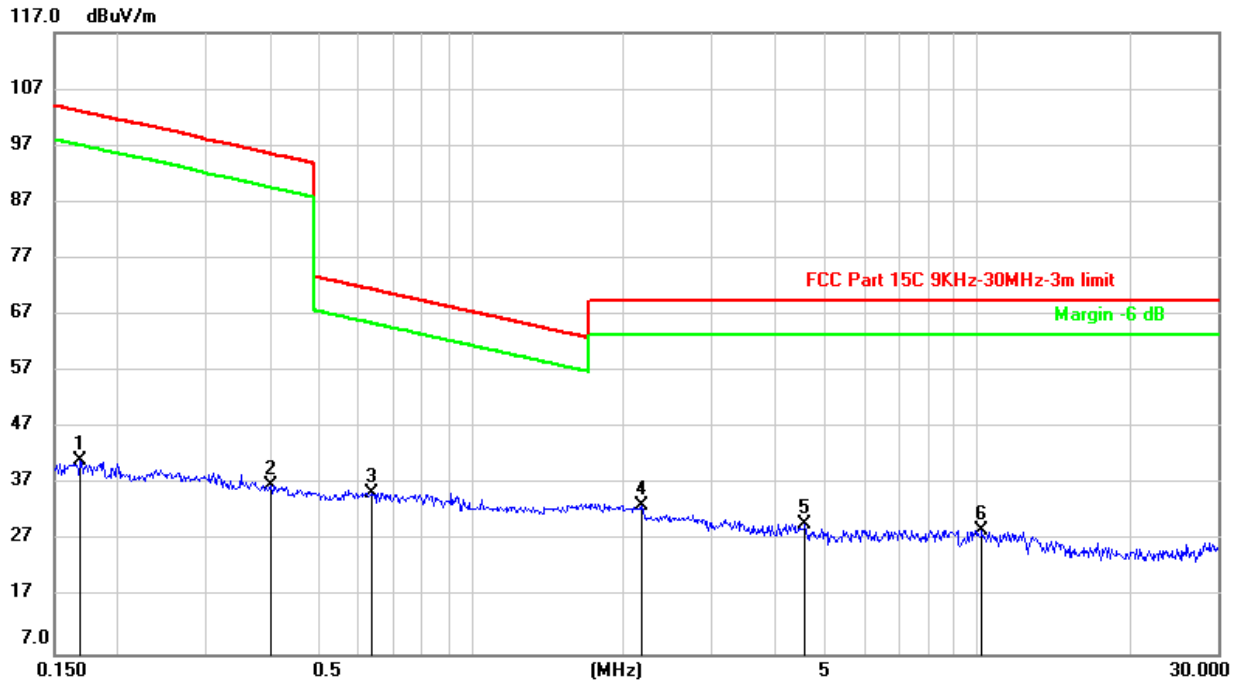


No.	Frequency (KHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0100	27.25	20.21	47.46	127.60	-80.14	peak
2	0.0128	24.95	20.24	45.19	125.91	-80.72	peak
3	0.0223	19.41	20.31	39.72	120.77	-81.05	peak
4	0.0539	14.29	20.31	34.60	113.00	-78.40	peak
5	0.0908	13.34	20.26	33.60	108.45	-74.85	peak
6	0.1179	12.66	20.29	32.95	106.18	-73.23	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. Peak: Peak detector.



**150KHz~30MHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1685	20.93	20.40	41.33	103.08	-61.75	peak
2	0.4017	16.52	20.27	36.79	95.53	-58.74	peak
3	0.6370	15.23	20.30	35.53	71.54	-36.01	peak
4	2.1667	12.41	20.76	33.17	69.54	-36.37	peak
5	4.5734	8.95	20.92	29.87	69.54	-39.67	peak
6	10.2332	7.84	21.05	28.89	69.54	-40.65	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. Peak: Peak detector.

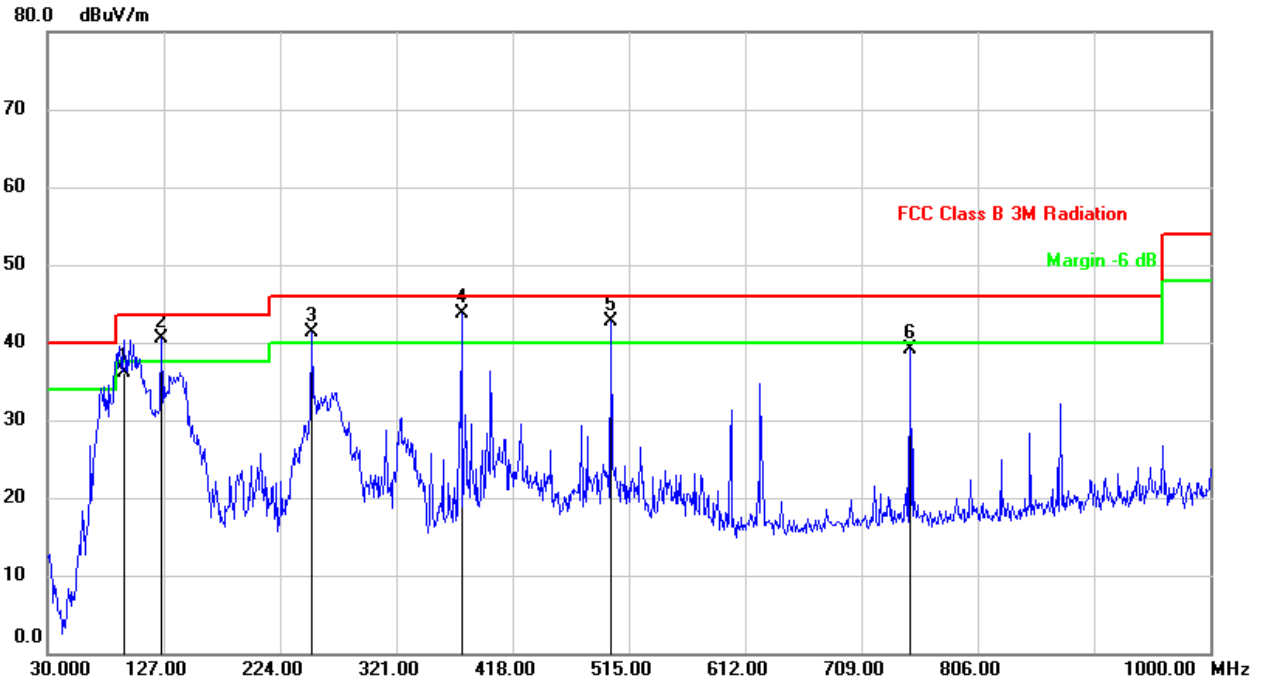
Note 2: EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



### 8.4.SPURIOUS EMISSIONS BELOW 1 GHz (WORST-CASE CONFIGURATION)

QPSK 20MHz Bandwidth Mode

#### SPURIOUS EMISSIONS BELOW 1GHz (MIDDLE CHANNEL, HORIZONTAL)

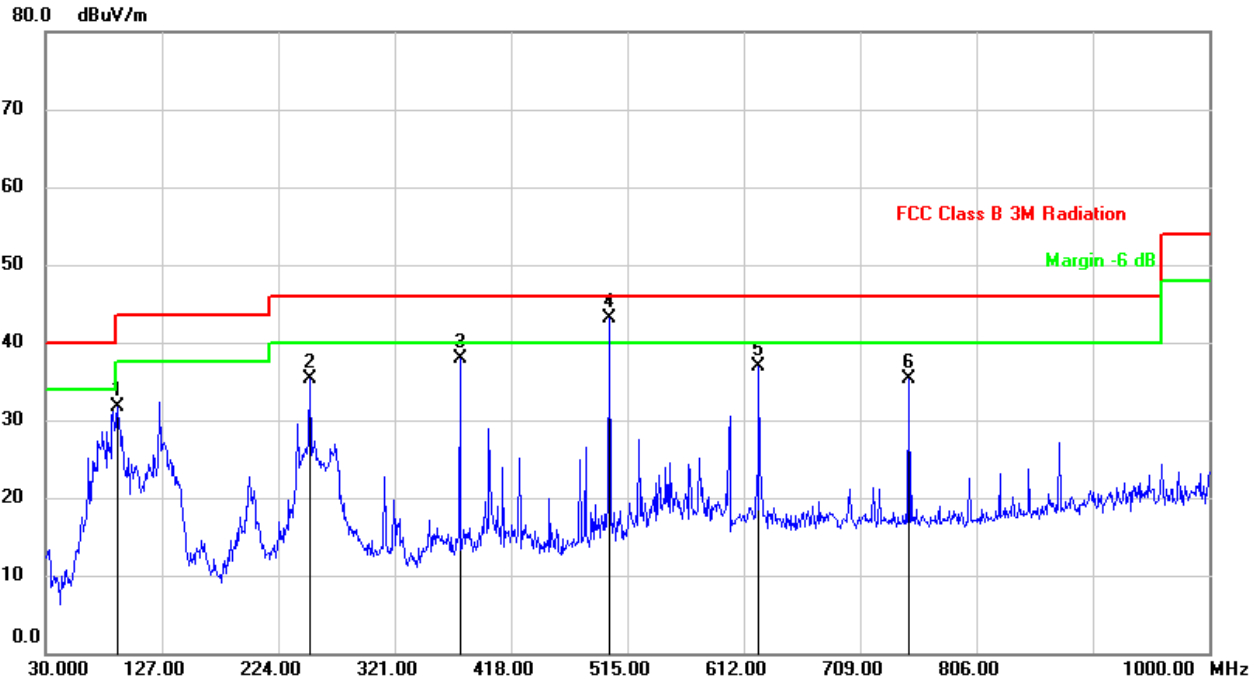


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	94.0199	58.03	-21.92	36.11	43.50	-7.39	QP
2	125.0600	59.23	-18.82	40.41	43.50	-3.09	QP
3	250.1900	58.92	-17.70	41.22	46.00	-4.78	QP
4	375.3200	56.70	-13.05	43.65	46.00	-2.35	QP
5	500.4500	53.85	-11.11	42.74	46.00	-3.26	QP
6	749.7400	46.61	-7.52	39.09	46.00	-6.91	QP

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 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 BELOW 1GHz (MIDDLE CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	90.1400	53.70	-21.92	31.78	43.50	-11.72	QP
2	250.1900	52.93	-17.70	35.23	46.00	-10.77	QP
3	375.3200	50.98	-13.05	37.93	46.00	-8.07	QP
4	500.4500	54.19	-11.11	43.08	46.00	-2.92	QP
5	624.6100	45.69	-8.80	36.89	46.00	-9.11	QP
6	749.7400	42.73	-7.52	35.21	46.00	-10.79	QP

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 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

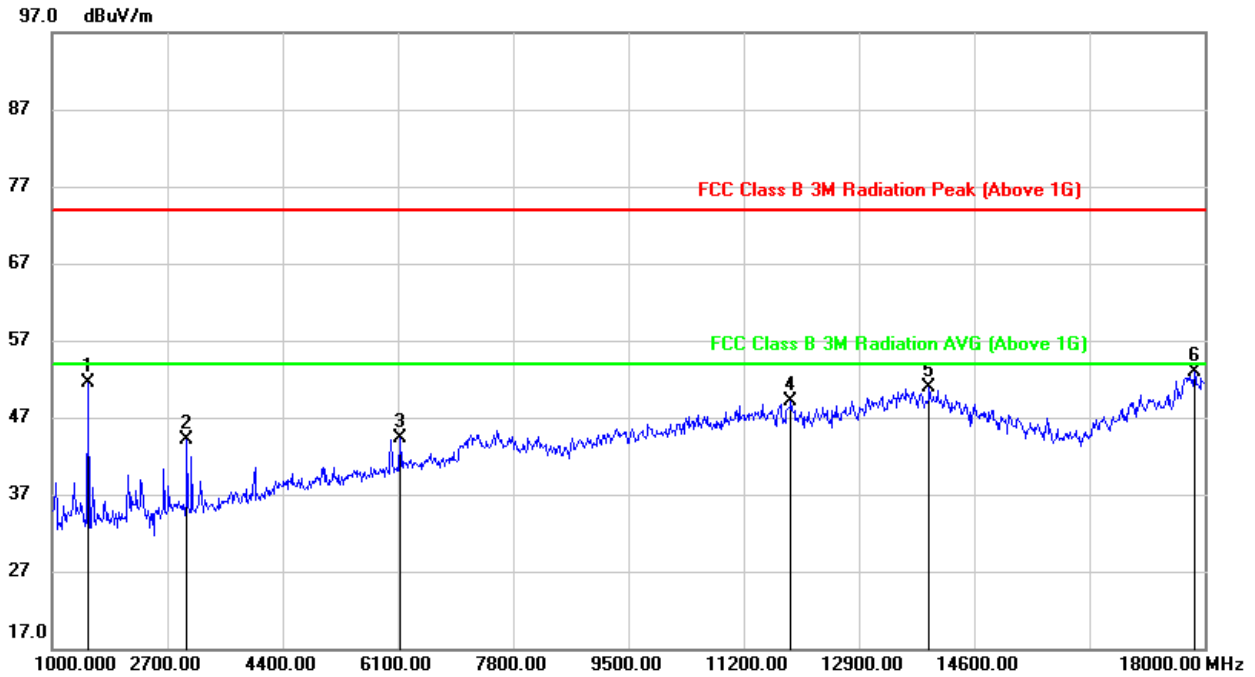
Note 2: EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



### 8.5.SPURIOUS EMISSIONS 1~18GHz

QPSK 10MHz Bandwidth Mode

#### HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (LOW CHANNEL, HORIZONTAL)



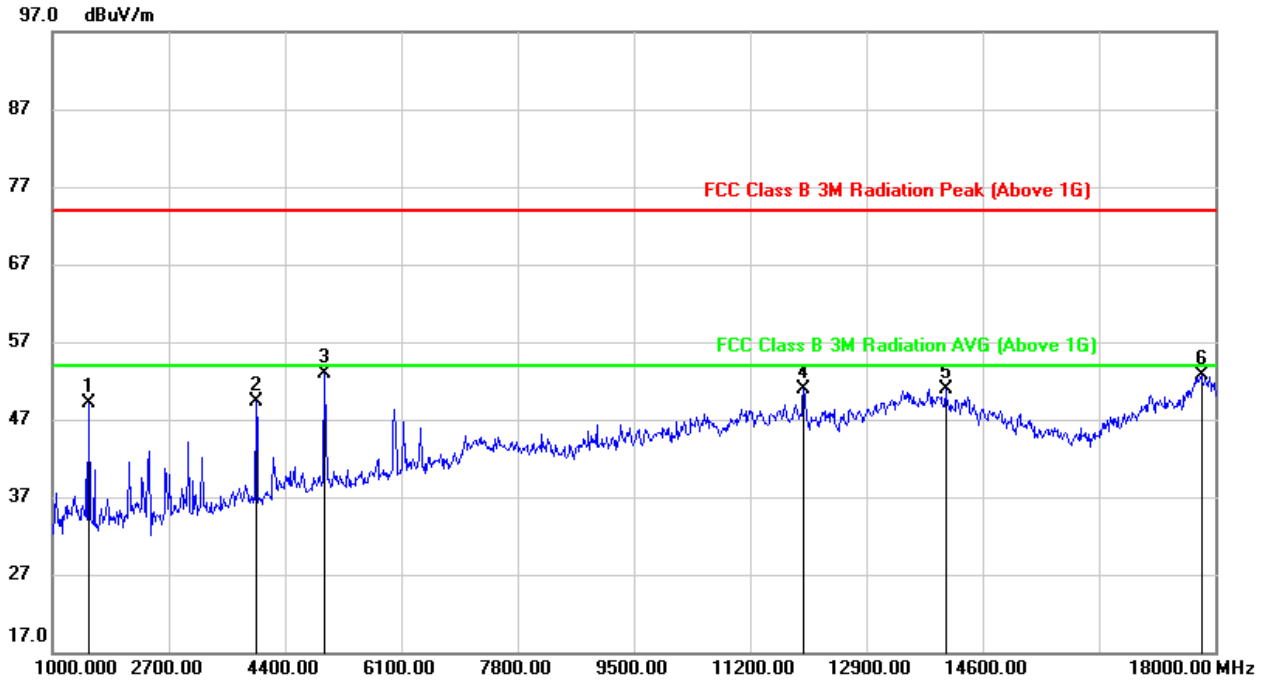
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	64.39	-12.80	51.59	74.00	-22.41	peak
2	2990.700	51.33	-7.28	44.05	74.00	-29.95	peak
3	6137.967	41.89	2.39	44.28	74.00	-29.72	peak
4	11906.633	33.95	15.14	49.09	74.00	-24.91	peak
5	13938.133	32.36	18.55	50.91	74.00	-23.09	peak
6	17857.767	28.65	24.22	52.87	74.00	-21.13	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.





**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (LOW CHANNEL, VERTICAL)**

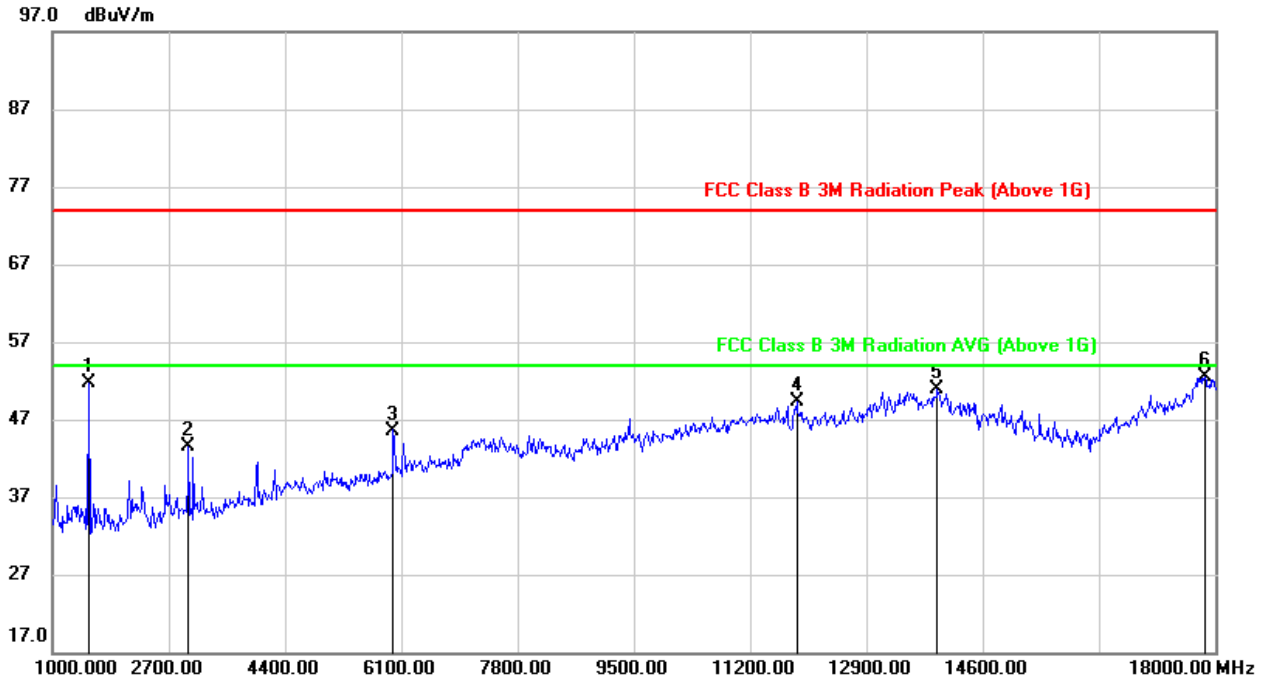


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	61.89	-12.76	49.13	74.00	-24.87	peak
2	3989.167	53.82	-4.54	49.28	74.00	-24.72	peak
3	4989.333	53.69	-0.78	52.91	74.00	-21.09	peak
4	11986.533	36.18	14.67	50.85	74.00	-23.15	peak
5	14062.800	32.56	18.39	50.95	74.00	-23.05	peak
6	17812.433	28.18	24.45	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (MIDDLE CHANNEL, HORIZONTAL)**

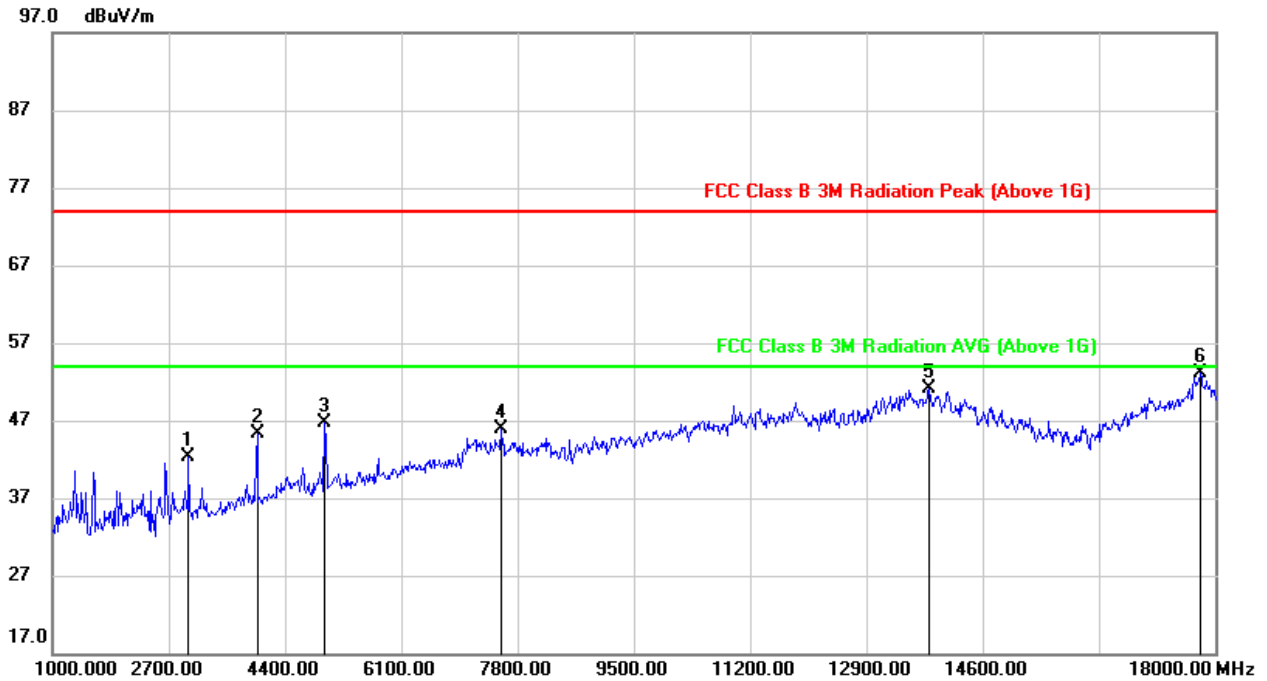


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	64.47	-12.80	51.67	74.00	-22.33	peak
2	2994.100	50.75	-7.29	43.46	74.00	-30.54	peak
3	5995.167	43.65	1.95	45.60	74.00	-28.40	peak
4	11889.067	34.34	15.03	49.37	74.00	-24.63	peak
5	13947.200	32.30	18.55	50.85	74.00	-23.15	peak
6	17851.533	28.31	24.25	52.56	74.00	-21.44	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHZ (MIDDLE CHANNEL, VERTICAL)**

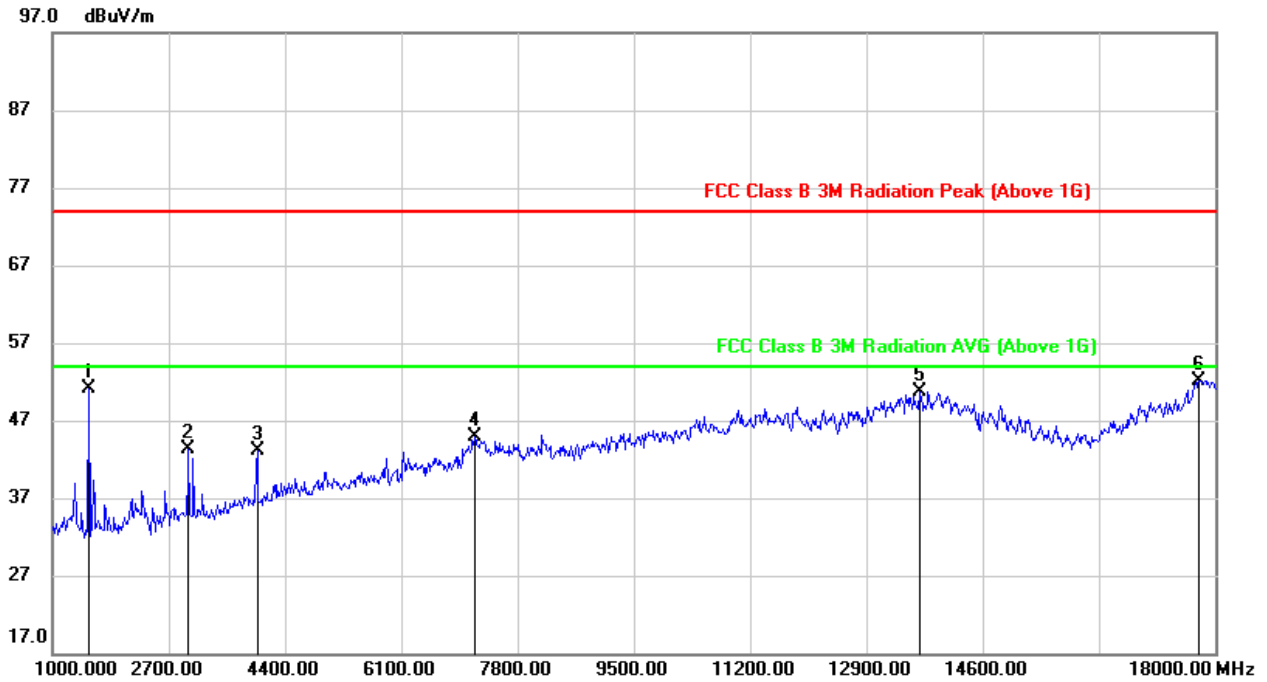


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2999.767	49.67	-7.29	42.38	74.00	-31.62	peak
2	3995.967	49.76	-4.54	45.22	74.00	-28.78	peak
3	4992.167	47.55	-0.79	46.76	74.00	-27.24	peak
4	7568.800	39.22	6.65	45.87	74.00	-28.13	peak
5	13825.367	32.10	18.92	51.02	74.00	-22.98	peak
6	17781.267	28.64	24.39	53.03	74.00	-20.97	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (HIGH CHANNEL, HORIZONTAL)**

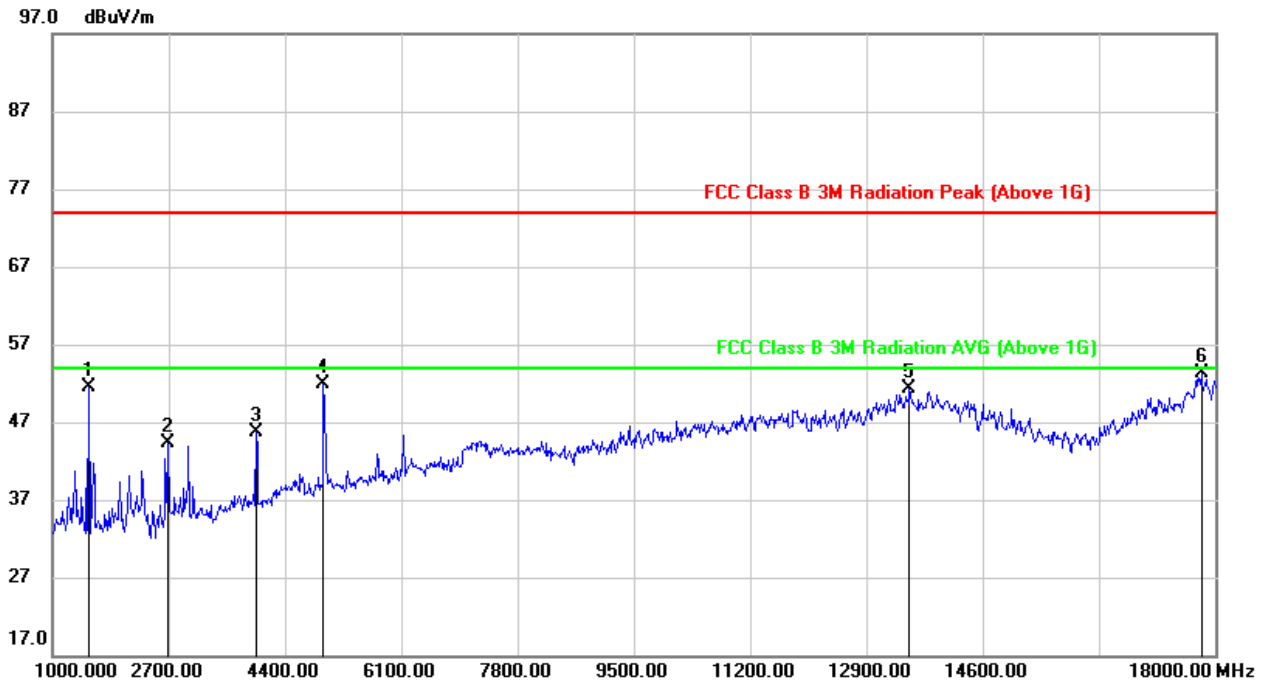


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.86	-12.80	51.06	74.00	-22.94	peak
2	2994.100	50.58	-7.29	43.29	74.00	-30.71	peak
3	3992.000	47.55	-4.54	43.01	74.00	-30.99	peak
4	7185.167	38.57	6.35	44.92	74.00	-29.08	peak
5	13696.733	32.17	18.59	50.76	74.00	-23.24	peak
6	17772.200	28.29	23.88	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (HIGH CHANNEL, VERTICAL)**



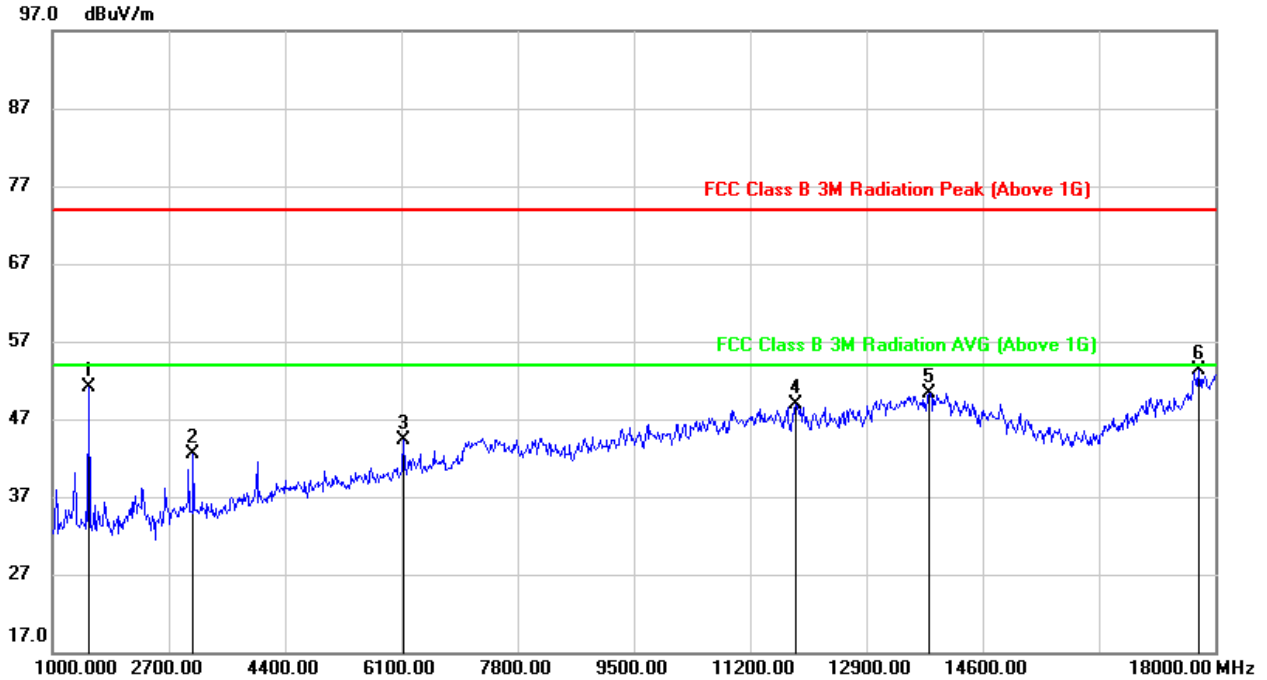
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	64.31	-12.76	51.55	74.00	-22.45	peak
2	2698.867	52.51	-8.30	44.21	74.00	-29.79	peak
3	3985.200	50.18	-4.54	45.64	74.00	-28.36	peak
4	4977.433	52.71	-0.78	51.93	74.00	-22.07	peak
5	13540.333	32.39	18.83	51.22	74.00	-22.78	peak
6	17807.333	28.70	24.53	53.23	74.00	-20.77	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.



OFDM 10MHz Bandwidth Mode

**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHZ (LOW CHANNEL, HORIZONTAL)**

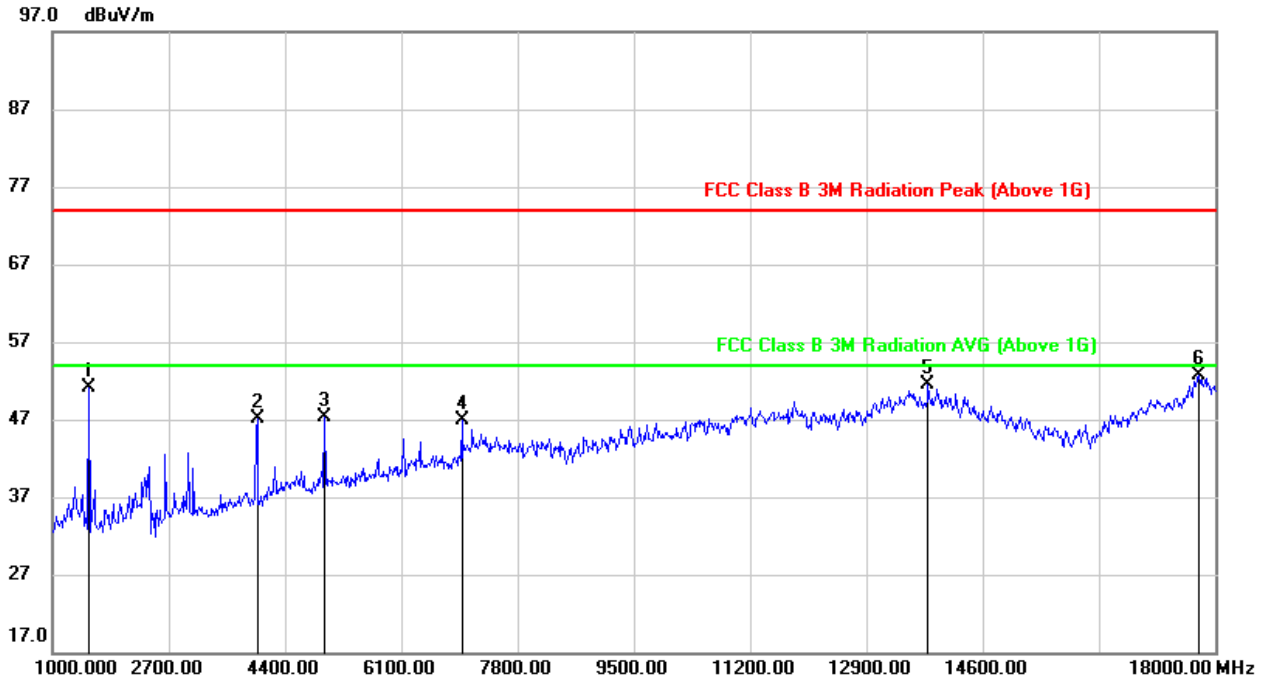


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.93	-12.80	51.13	74.00	-22.87	peak
2	3068.900	49.58	-7.02	42.56	74.00	-31.44	peak
3	6137.967	41.91	2.39	44.30	74.00	-29.70	peak
4	11864.133	34.38	14.52	48.90	74.00	-25.10	peak
5	13831.600	31.81	18.57	50.38	74.00	-23.62	peak
6	17764.267	29.61	23.76	53.37	74.00	-20.63	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (LOW CHANNEL, VERTICAL)**

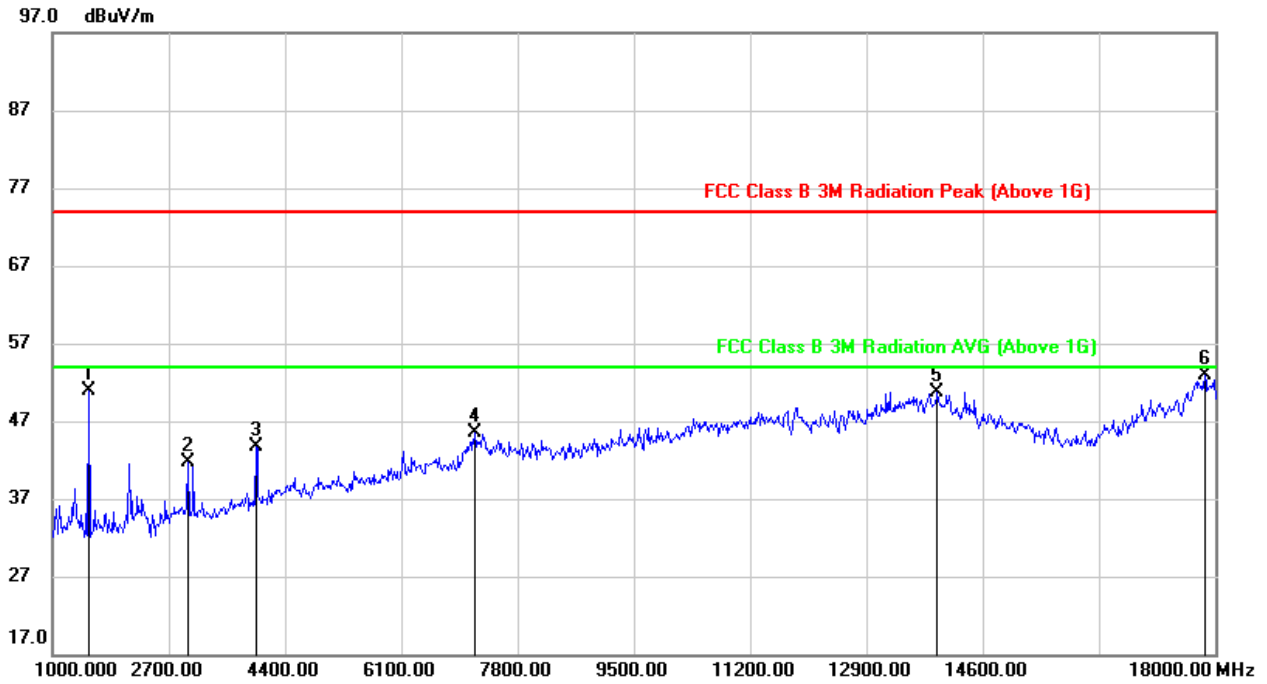


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.83	-12.76	51.07	74.00	-22.93	peak
2	3993.133	51.72	-4.54	47.18	74.00	-26.82	peak
3	4981.967	48.18	-0.78	47.40	74.00	-26.60	peak
4	6990.233	41.62	5.35	46.97	74.00	-27.03	peak
5	13814.033	32.54	18.96	51.50	74.00	-22.50	peak
6	17772.200	28.41	24.28	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (MIDDLE CHANNEL, HORIZONTAL)**



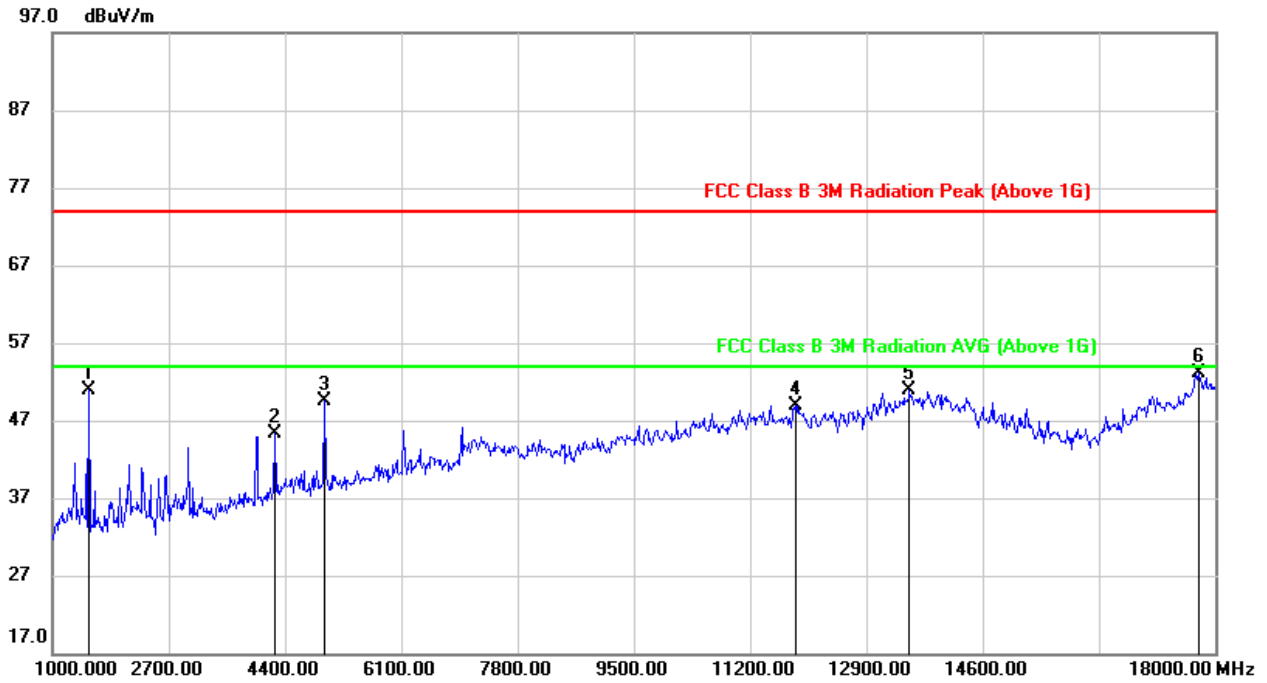
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.77	-12.80	50.97	74.00	-23.03	peak
2	2988.433	48.92	-7.29	41.63	74.00	-32.37	peak
3	3989.733	48.27	-4.54	43.73	74.00	-30.27	peak
4	7179.500	39.23	6.35	45.58	74.00	-28.42	peak
5	13947.200	32.17	18.55	50.72	74.00	-23.28	peak
6	17848.133	28.64	24.26	52.90	74.00	-21.10	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.





**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (MIDDLE CHANNEL, VERTICAL)**

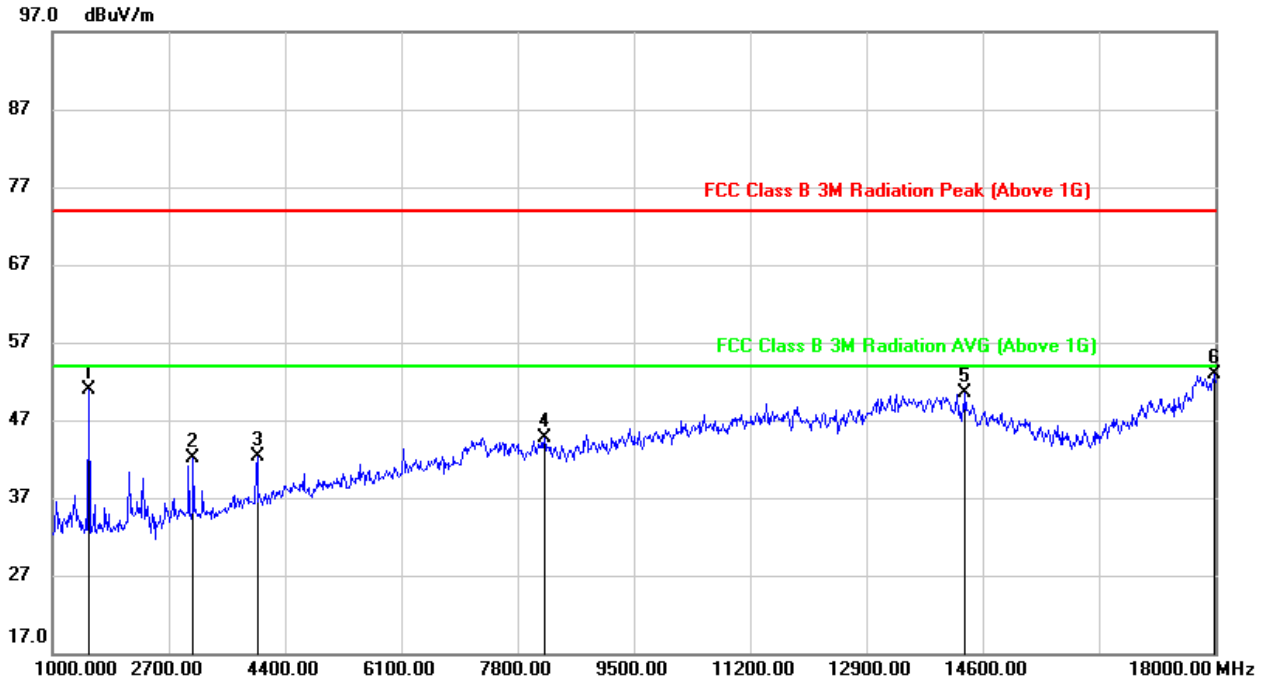


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.74	-12.76	50.98	74.00	-23.02	peak
2	4247.000	48.57	-3.35	45.22	74.00	-28.78	peak
3	4992.167	50.26	-0.79	49.47	74.00	-24.53	peak
4	11874.900	34.24	14.74	48.98	74.00	-25.02	peak
5	13532.400	32.09	18.78	50.87	74.00	-23.13	peak
6	17768.233	28.83	24.22	53.05	74.00	-20.95	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (HIGH CHANNEL, HORIZONTAL)**

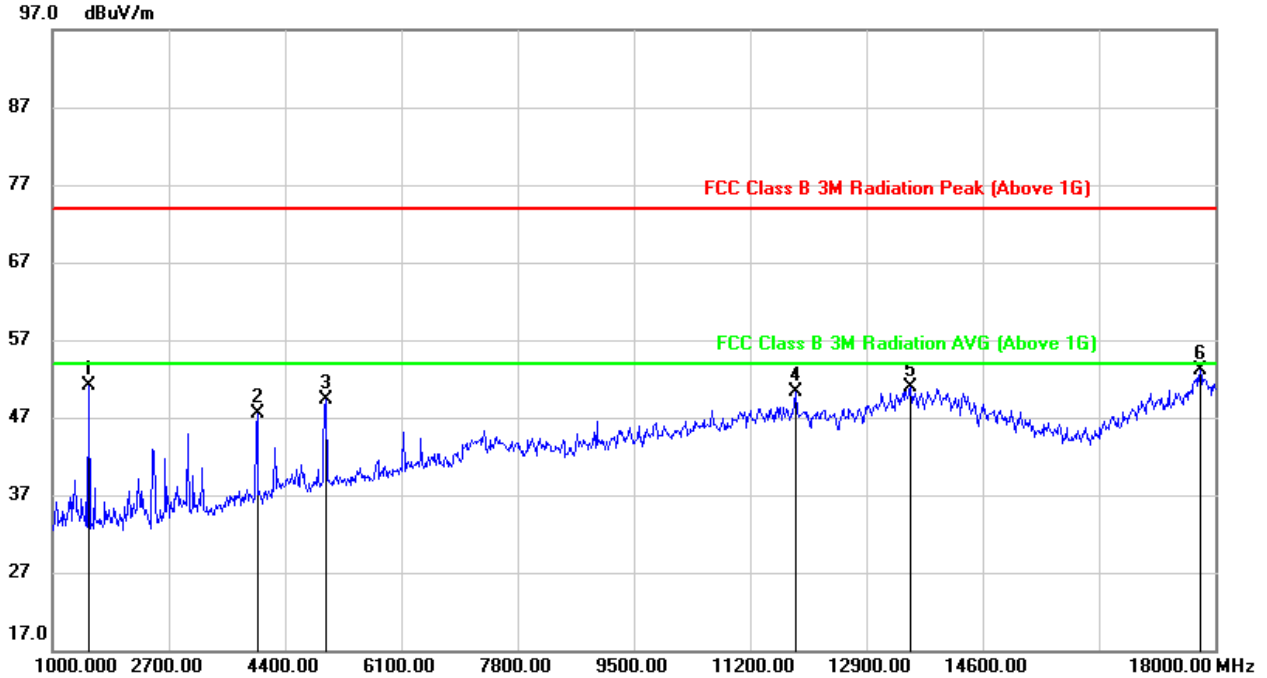


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.75	-12.80	50.95	74.00	-23.05	peak
2	3068.900	49.06	-7.02	42.04	74.00	-31.96	peak
3	3997.667	46.77	-4.54	42.23	74.00	-31.77	peak
4	8191.567	37.58	7.18	44.76	74.00	-29.24	peak
5	14347.267	32.66	17.83	50.49	74.00	-23.51	peak
6	17999.433	28.17	24.81	52.98	74.00	-21.02	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (HIGH CHANNEL, VERTICAL)**



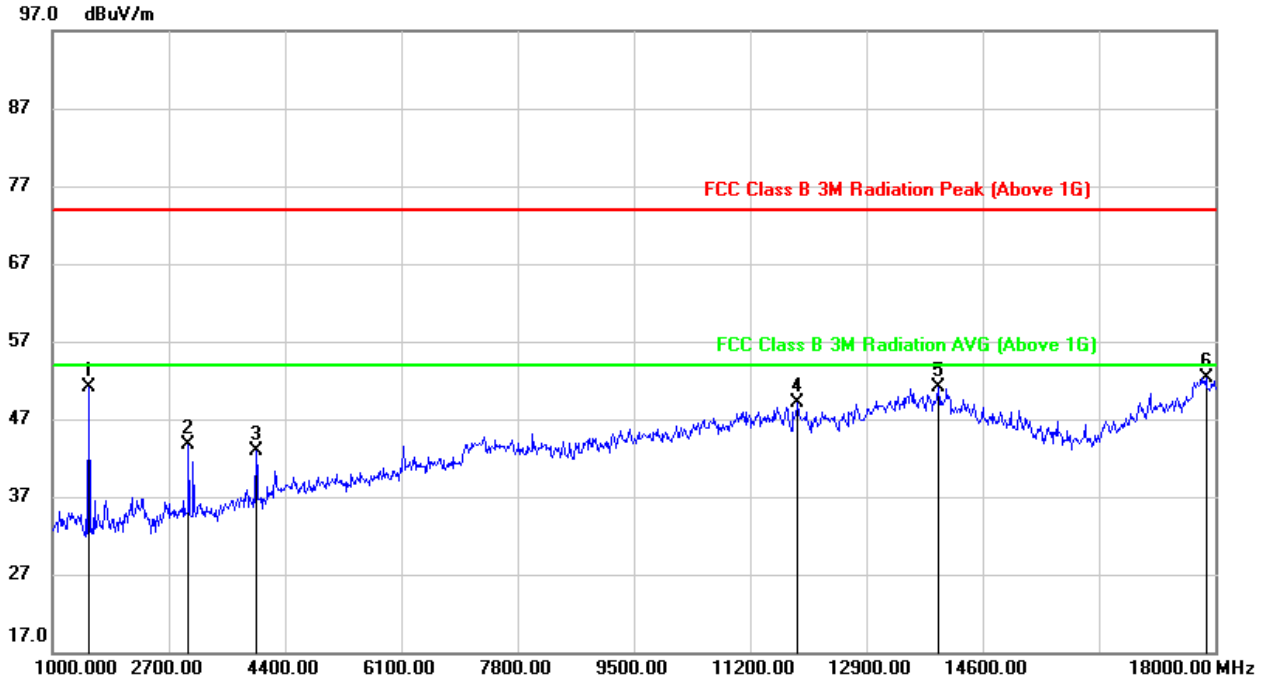
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.83	-12.76	51.07	74.00	-22.93	peak
2	3993.700	52.03	-4.54	47.49	74.00	-26.51	peak
3	4999.533	49.99	-0.78	49.21	74.00	-24.79	peak
4	11865.267	35.48	14.73	50.21	74.00	-23.79	peak
5	13548.833	32.02	18.88	50.90	74.00	-23.10	peak
6	17784.667	28.71	24.44	53.15	74.00	-20.85	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.



QPSK 20MHz Bandwidth Mode

**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHZ (LOW CHANNEL, HORIZONTAL)**

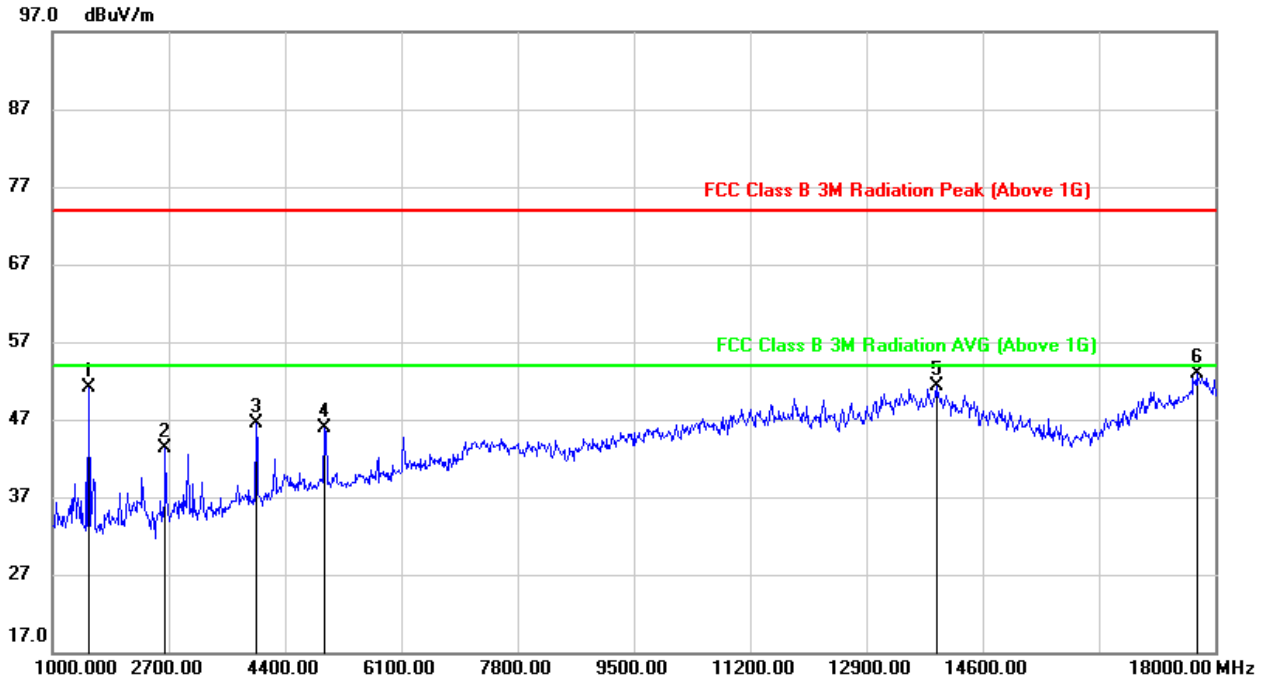


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.91	-12.80	51.11	74.00	-22.89	peak
2	2999.767	51.01	-7.29	43.72	74.00	-30.28	peak
3	3990.300	47.37	-4.54	42.83	74.00	-31.17	peak
4	11899.267	33.88	15.24	49.12	74.00	-24.88	peak
5	13957.967	32.56	18.54	51.10	74.00	-22.90	peak
6	17873.633	28.20	24.13	52.33	74.00	-21.67	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (LOW CHANNEL, VERTICAL)**

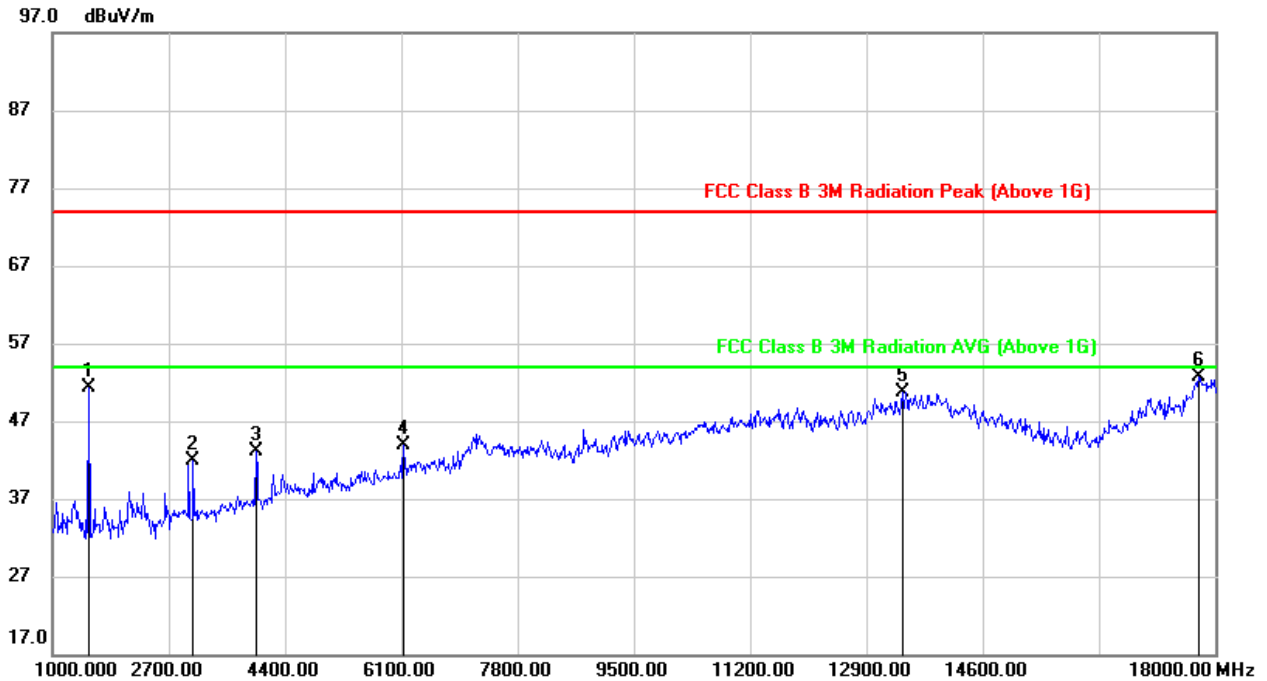


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.93	-12.76	51.17	74.00	-22.83	peak
2	2659.200	51.84	-8.60	43.24	74.00	-30.76	peak
3	3985.200	51.08	-4.54	46.54	74.00	-27.46	peak
4	4989.333	46.69	-0.78	45.91	74.00	-28.09	peak
5	13936.433	32.62	18.68	51.30	74.00	-22.70	peak
6	17739.900	29.05	23.85	52.90	74.00	-21.10	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (MIDDLE CHANNEL, HORIZONTAL)**

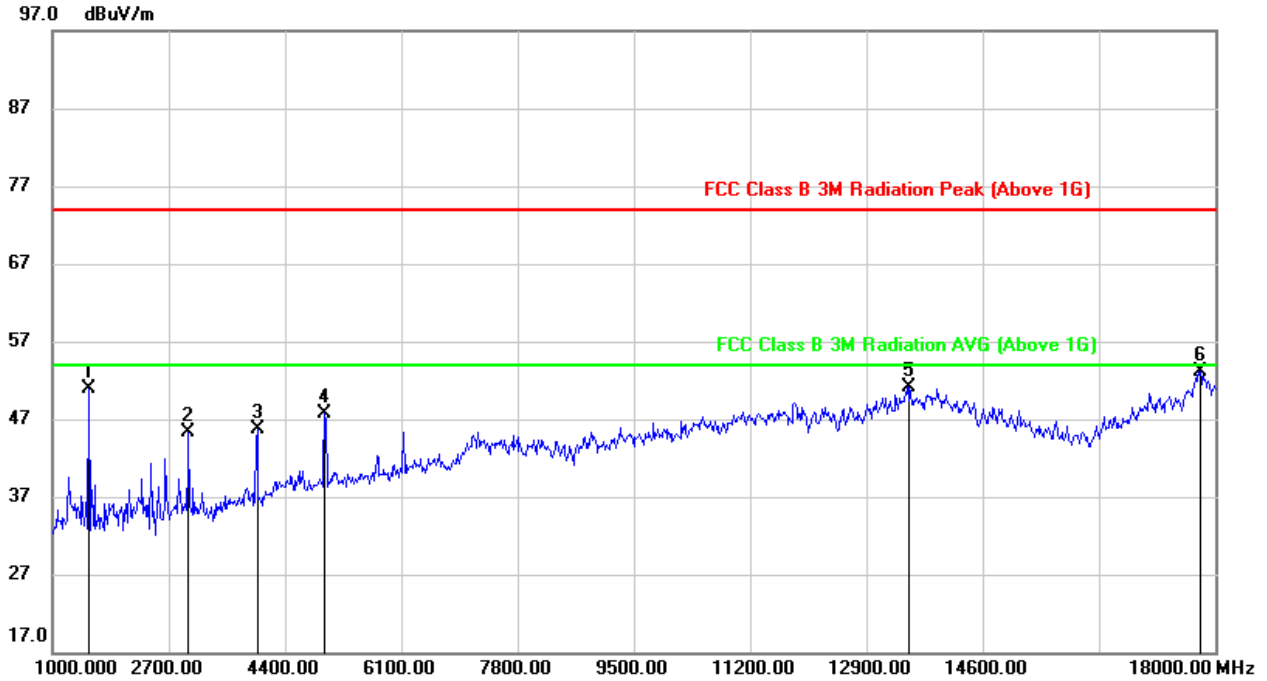


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	64.04	-12.80	51.24	74.00	-22.76	peak
2	3068.900	48.88	-7.02	41.86	74.00	-32.14	peak
3	3987.467	47.64	-4.54	43.10	74.00	-30.90	peak
4	6137.967	41.49	2.39	43.88	74.00	-30.12	peak
5	13437.767	32.85	17.93	50.78	74.00	-23.22	peak
6	17763.133	28.94	23.76	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (MIDDLE CHANNEL, VERTICAL)**

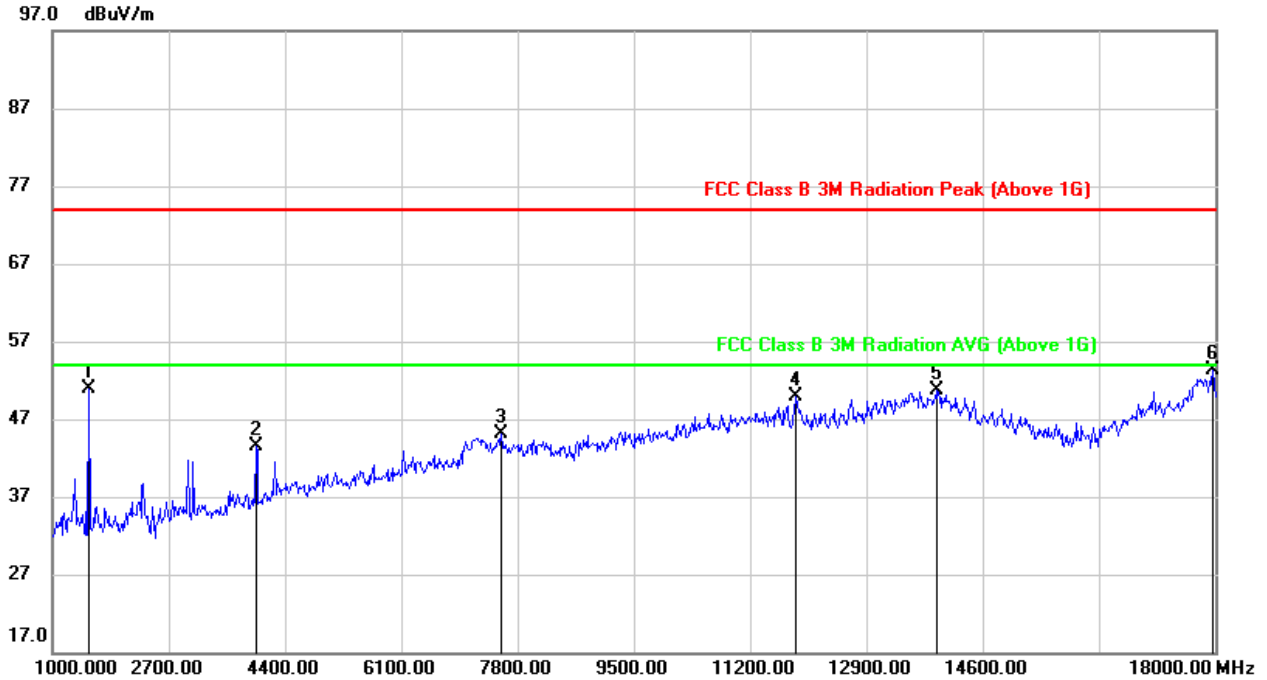


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.76	-12.76	51.00	74.00	-23.00	peak
2	2995.233	52.57	-7.29	45.28	74.00	-28.72	peak
3	3995.967	50.15	-4.54	45.61	74.00	-28.39	peak
4	4981.967	48.51	-0.78	47.73	74.00	-26.27	peak
5	13540.333	32.35	18.83	51.18	74.00	-22.82	peak
6	17779.000	28.72	24.36	53.08	74.00	-20.92	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (HIGH CHANNEL, HORIZONTAL)**



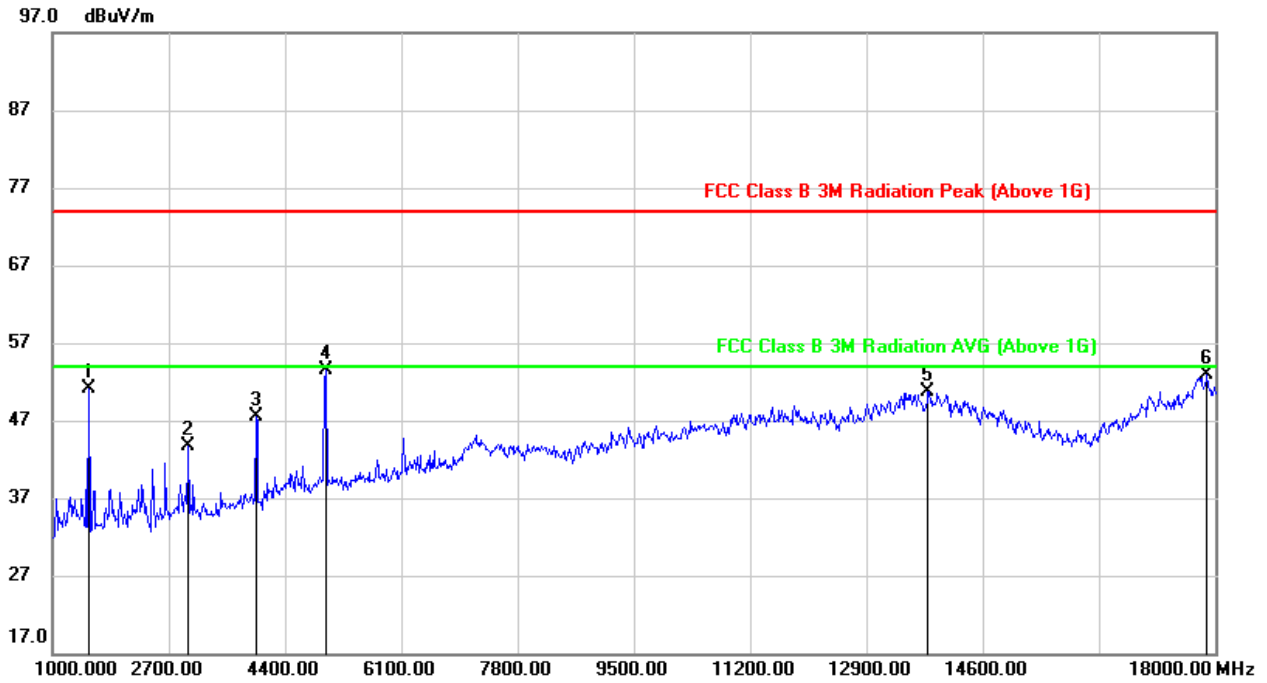
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.76	-12.80	50.96	74.00	-23.04	peak
2	3985.200	48.05	-4.54	43.51	74.00	-30.49	peak
3	7576.167	38.42	6.60	45.02	74.00	-28.98	peak
4	11872.067	35.31	14.68	49.99	74.00	-24.01	peak
5	13947.767	32.08	18.55	50.63	74.00	-23.37	peak
6	17982.433	28.47	24.80	53.27	74.00	-20.73	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.





**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (HIGH CHANNEL, VERTICAL)**



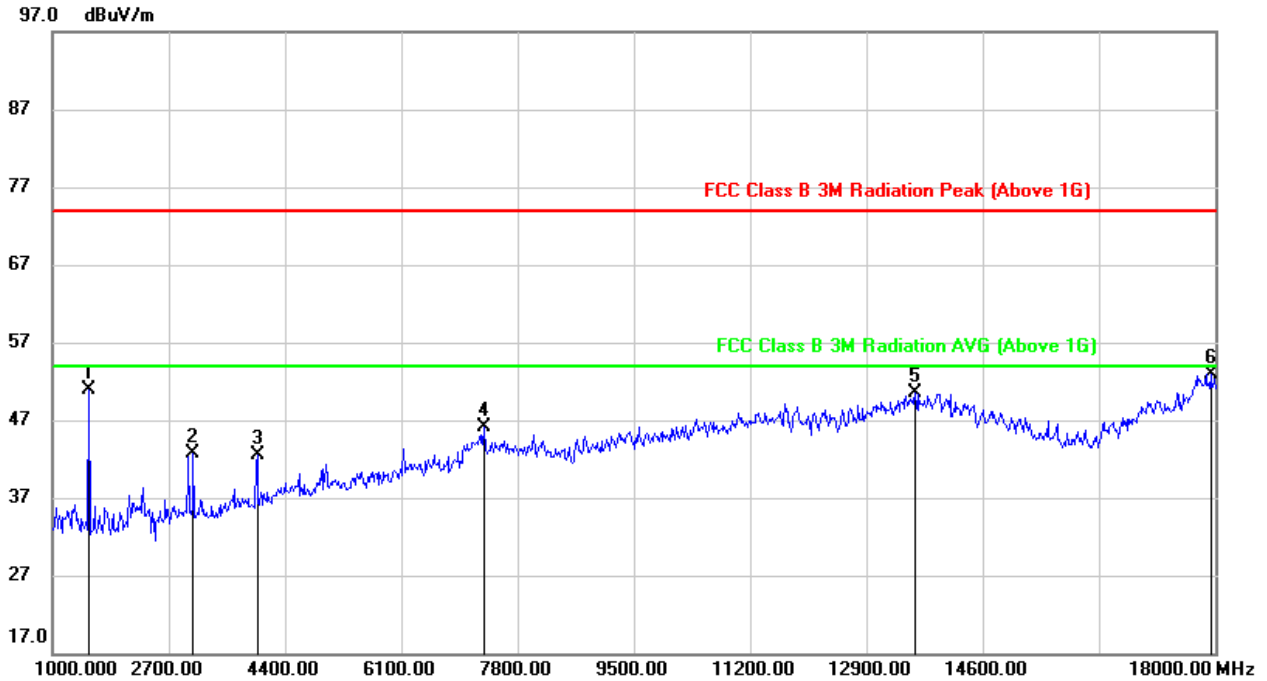
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.87	-12.76	51.11	74.00	-22.89	peak
2	2996.933	50.92	-7.29	43.63	74.00	-30.37	peak
3	3990.300	51.97	-4.54	47.43	74.00	-26.57	peak
4	5000.100	54.26	-0.78	53.48	74.00	-20.52	peak
5	13812.900	31.69	18.97	50.66	74.00	-23.34	peak
6	17882.133	28.79	24.13	52.92	74.00	-21.08	peak

- Note: 1. Result = Reading + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



OFDM 20MHz Bandwidth Mode

**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (LOW CHANNEL, HORIZONTAL)**

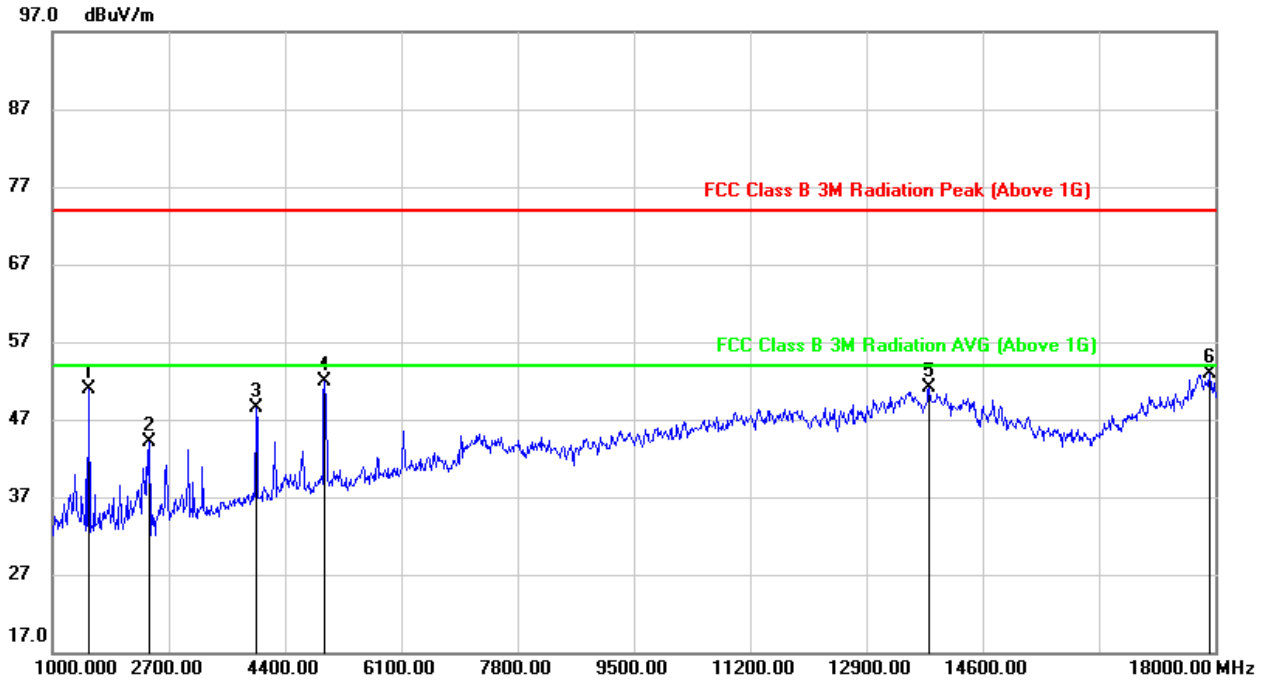


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.74	-12.80	50.94	74.00	-23.06	peak
2	3068.900	49.73	-7.02	42.71	74.00	-31.29	peak
3	3992.567	46.97	-4.54	42.43	74.00	-31.57	peak
4	7315.500	39.78	6.29	46.07	74.00	-27.93	peak
5	13624.767	32.05	18.46	50.51	74.00	-23.49	peak
6	17938.233	28.27	24.60	52.87	74.00	-21.13	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (LOW CHANNEL, VERTICAL)**

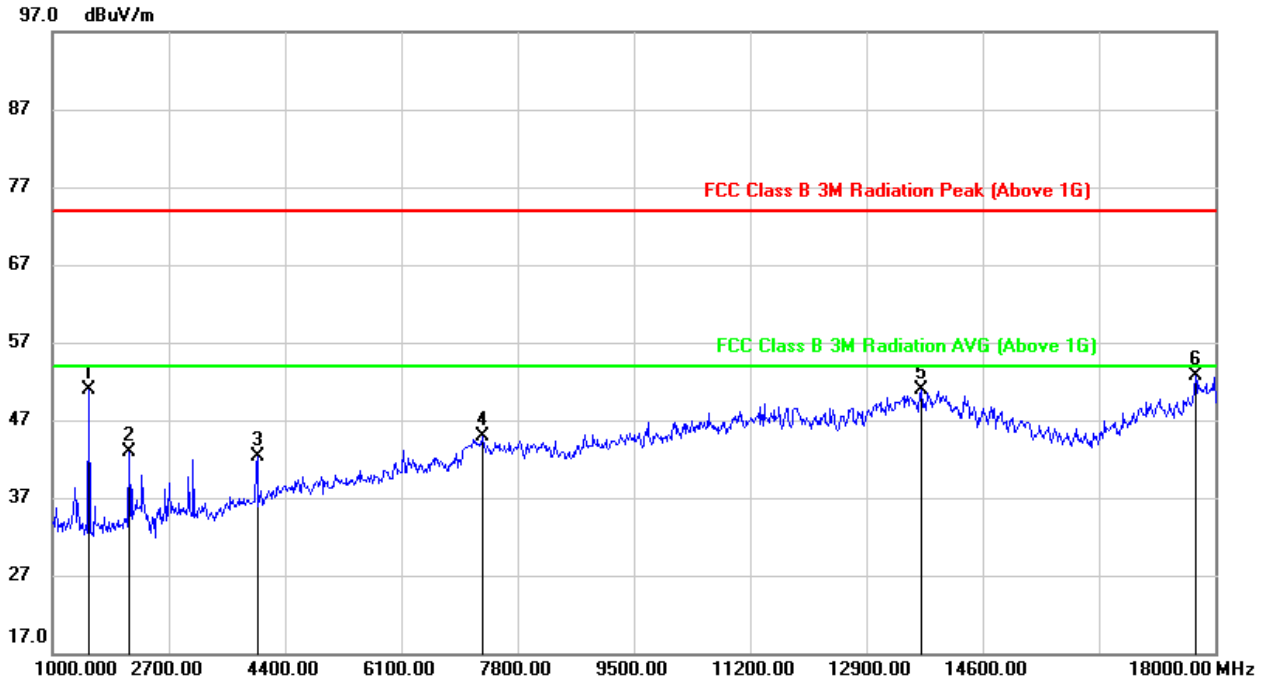


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.65	-12.76	50.89	74.00	-23.11	peak
2	2413.267	53.05	-8.99	44.06	74.00	-29.94	peak
3	3982.933	52.99	-4.54	48.45	74.00	-25.55	peak
4	4978.000	52.75	-0.77	51.98	74.00	-22.02	peak
5	13825.367	32.11	18.92	51.03	74.00	-22.97	peak
6	17922.367	28.84	23.98	52.82	74.00	-21.18	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (MIDDLE CHANNEL, HORIZONTAL)**

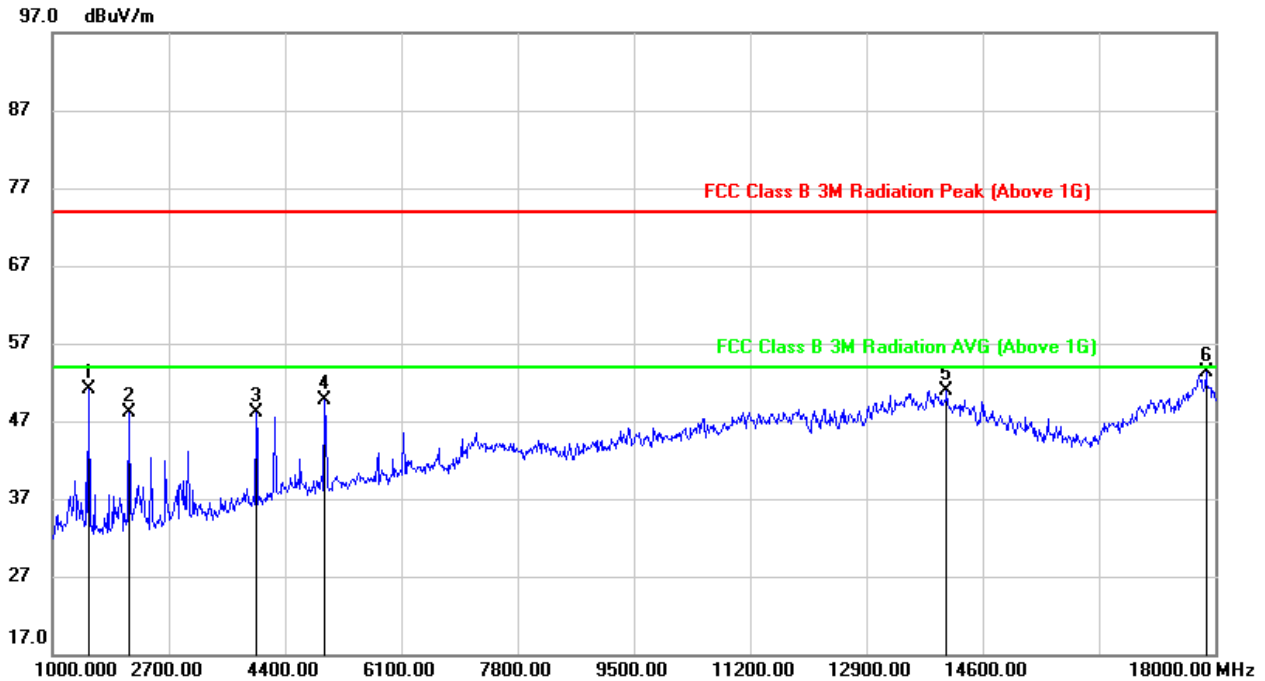


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.61	-12.80	50.81	74.00	-23.19	peak
2	2131.633	52.74	-9.79	42.95	74.00	-31.05	peak
3	3996.533	46.81	-4.54	42.27	74.00	-31.73	peak
4	7295.100	38.41	6.46	44.87	74.00	-29.13	peak
5	13710.333	32.28	18.62	50.90	74.00	-23.10	peak
6	17725.733	29.16	23.50	52.66	74.00	-21.34	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (MIDDLE CHANNEL, VERTICAL)**

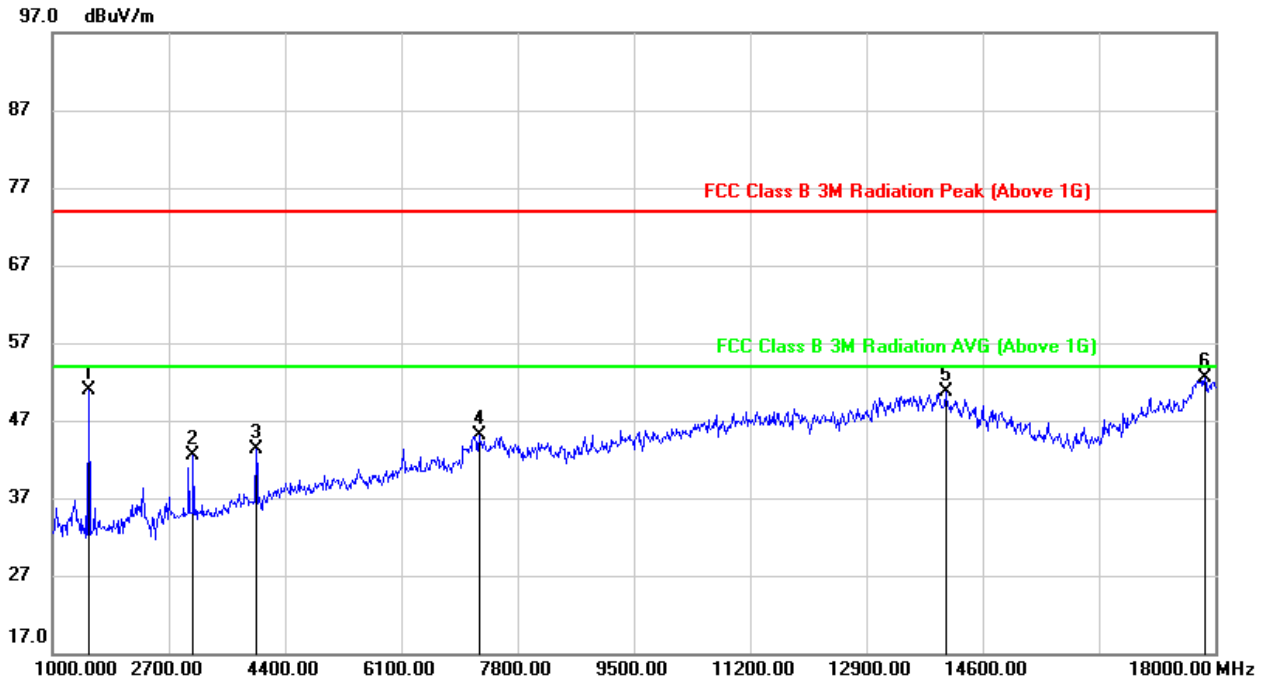


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.83	-12.76	51.07	74.00	-22.93	peak
2	2127.667	58.15	-9.96	48.19	74.00	-25.81	peak
3	3986.333	52.70	-4.54	48.16	74.00	-25.84	peak
4	4991.033	50.44	-0.78	49.66	74.00	-24.34	peak
5	14077.533	32.47	18.43	50.90	74.00	-23.10	peak
6	17871.933	29.19	24.04	53.23	74.00	-20.77	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (HIGH CHANNEL, HORIZONTAL)**

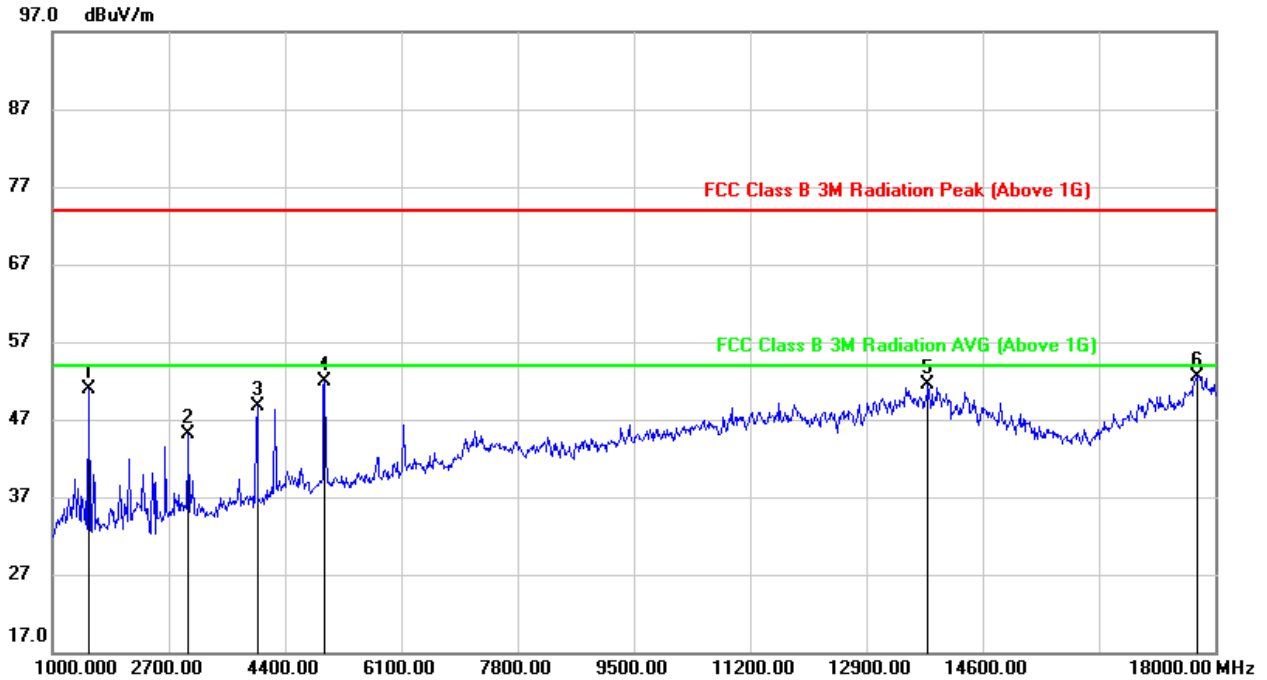


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.77	-12.80	50.97	74.00	-23.03	peak
2	3068.900	49.49	-7.02	42.47	74.00	-31.53	peak
3	3989.733	47.89	-4.54	43.35	74.00	-30.65	peak
4	7249.767	38.73	6.45	45.18	74.00	-28.82	peak
5	14072.433	32.29	18.47	50.76	74.00	-23.24	peak
6	17857.200	28.37	24.22	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.



**HARMONICS AND SPURIOUS EMISSIONS 1G~18GHz (HIGH CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1534.367	63.64	-12.76	50.88	74.00	-23.12	peak
2	2991.833	52.42	-7.29	45.13	74.00	-28.87	peak
3	3996.533	53.20	-4.54	48.66	74.00	-25.34	peak
4	4987.067	52.76	-0.78	51.98	74.00	-22.02	peak
5	13801.000	32.42	19.04	51.46	74.00	-22.54	peak
6	17731.967	28.70	23.75	52.45	74.00	-21.55	peak

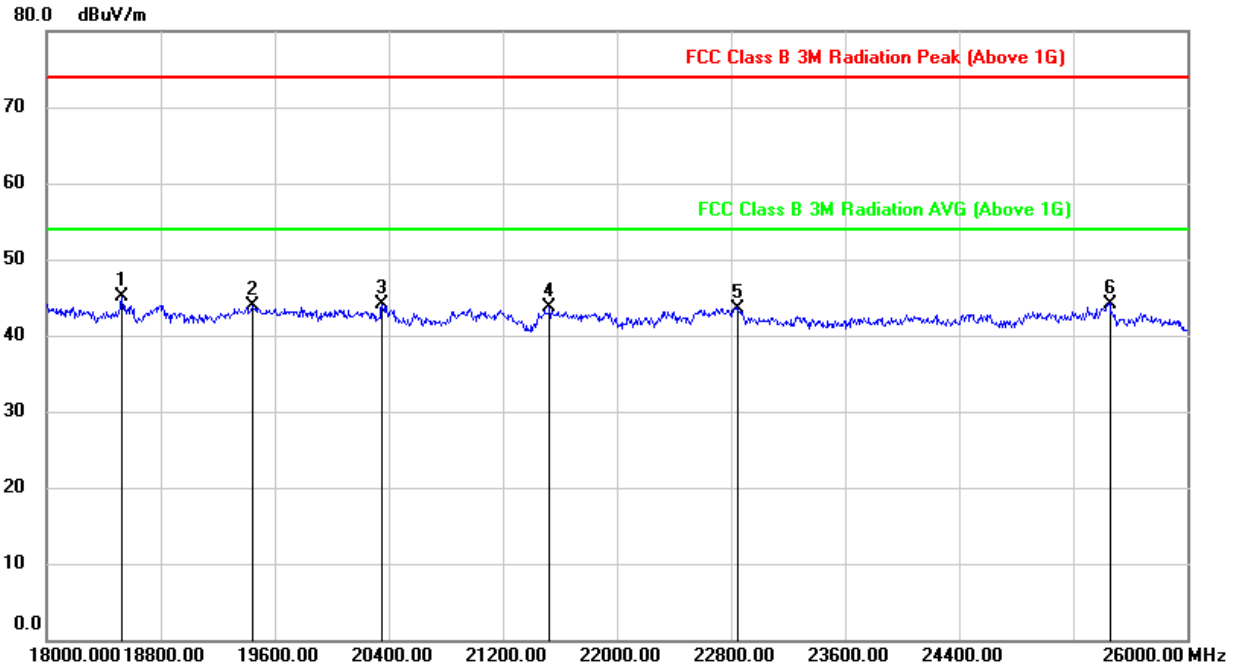
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.



### 8.6.SPURIOUS EMISSIONS 18G ~ 26GHz (WORST-CASE CONFIGURATION)

QPSK 20MHz Bandwidth Mode

#### SPURIOUS EMISSIONS 18GHz TO 26GHz (MIDDLE CHANNEL, HORIZONTAL)



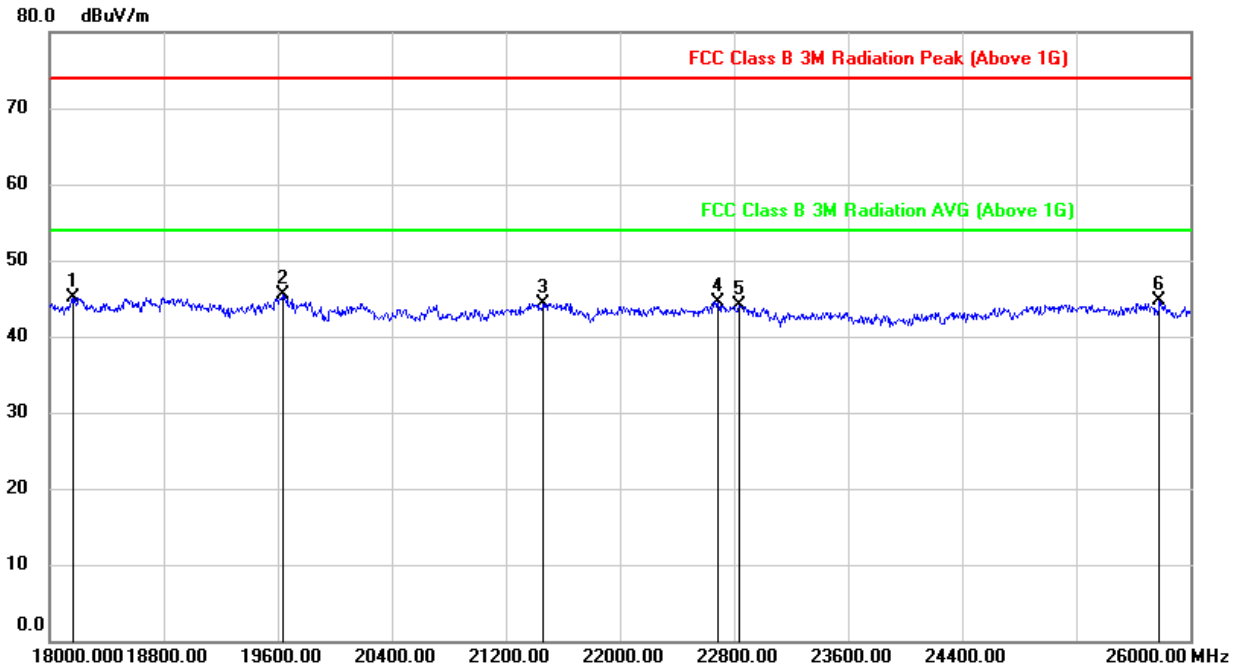
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18528.000	50.41	-5.26	45.15	74.00	-28.85	peak
2	19440.000	49.46	-5.56	43.90	74.00	-30.10	peak
3	20352.000	49.51	-5.50	44.01	74.00	-29.99	peak
4	21528.000	48.28	-4.65	43.63	74.00	-30.37	peak
5	22848.000	47.05	-3.59	43.46	74.00	-30.54	peak
6	25456.000	45.95	-1.75	44.20	74.00	-29.80	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 18GHz TO 26GHz (MIDDLE CHANNEL, VERTICAL)**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18160.000	50.61	-5.49	45.12	74.00	-28.88	peak
2	19632.000	50.95	-5.40	45.55	74.00	-28.45	peak
3	21464.000	49.10	-4.70	22.20	74.00	-29.60	peak
4	22688.000	48.32	-3.74	44.58	74.00	-29.42	peak
5	22832.000	47.72	-3.60	44.12	74.00	-29.88	peak
6	25784.000	45.35	-0.67	44.68	74.00	-29.32	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.

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

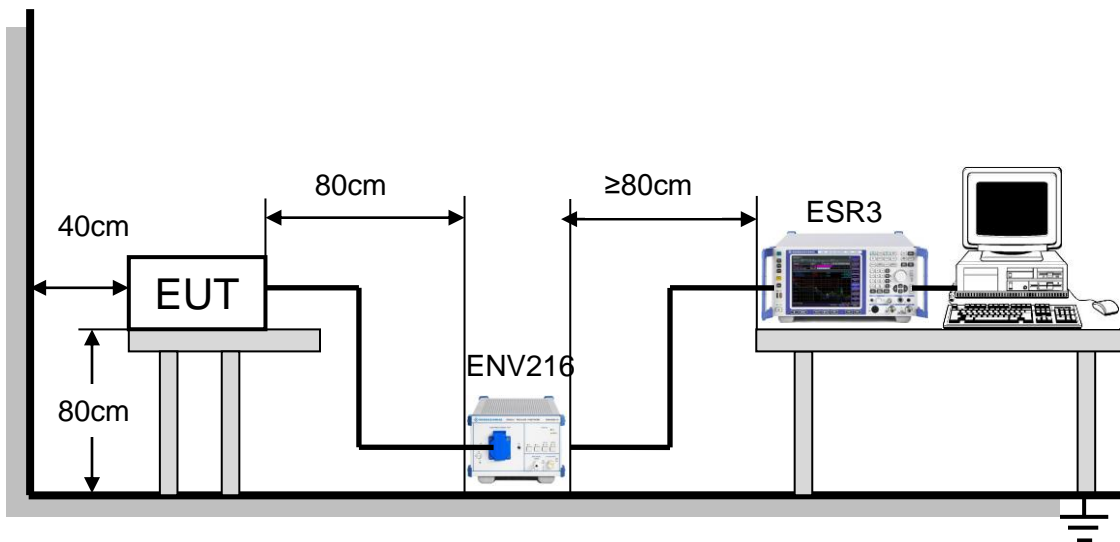
## 9. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

Please refer to FCC §15.207 (a) and RSS-Gen Clause 8.8.

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

### TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is 0.8m high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). An 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 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

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	22.8°C	Relative Humidity	65%
Atmosphere Pressure	101kPa	Test Voltage	DC 22.2V



**RESULTS**

Not Applicable.

Note: The EUT is powered by battery and can't charge directly.



## 10. ANTENNA REQUIREMENTS

### APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

### ANTENNA CONNECTOR

EUT has an external antenna with antenna connector.

### ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi.

**END OF REPORT**