



# FCC RF TEST REPORT

Applicant : Snapchat, Inc.  
 Address : 63 Market Streets, Venice, CA 90291, USA  
 Manufacturer : Weifang GoerTek Electronics Co.,Ltd  
 Address : Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China  
 Equipment : Spectacles  
 Model No. : 001  
 Brand : Snapchat  
 FCC ID : 2AIRN-001

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of **CerpPASS Technology (Suzhou) Corp.**, the test report shall not be reproduced except in full.

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.10 – 2013** and the energy emitted by this equipment was **passed**.  
**CISPR PUB. 22 and FCC Part 15** in both radiated and conducted emission class B limits. Testing was carried out on Aug.20,2016~ Aug.31,2016 at **CerpPASS Technology (Suzhou) Co., Ltd**.

Approved by:

Miro Chueh  
EMC/RF Manager

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory

<input type="checkbox"/>	<b>NVLAP LAB Code:</b>	<b>200954-0</b>
	<b>TAF LAB Code:</b>	<b>1439</b>

CerpPASS Technology (SuZhou) Co., Ltd.

<input checked="" type="checkbox"/>	<b>NVLAP LAB Code:</b>	<b>200814-0</b>
	<b>CNAS LAB Code:</b>	<b>L5515</b>



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### History of this Test Report

Report No.	Version	Issue Date	Description
SEFB1608091	Rev 01	Sept.01, 2016	Original.



### 1. Report of Measurements and Examinations

Reference STD		Description of Test	Compliance results
1	FCC Rules §15.207(a);	AC Conducted Emission	PASS
2	FCC Rules §15.209(a)	Radiated Emission	PASS
3	FCC Rules §15.247(a)(1);	20dB Bandwidth	PASS
4	FCC Rules §15.247(a)(1);	Channel Carrier Frequencies Separation	PASS
5	FCC Rules§15.247(a)(1);	Dwell Time	PASS
6	FCC Rules§15.247(b);	Number of Hopping Channels	PASS
7	FCC Rules §15.247(b);	Peak Output Power	PASS
8	FCC Rules §15.247(d)	Band-edge Compliance & Conducted Spurious Emissions	PASS
9	FCC Rules §15.247(d);	Radiated Emission Band Edges	PASS



## 2. General Info

### 2.1 Description of EUT

Product name	Spectacles
Model No.	001
Power supply cable	Shielded, 1.0m

### 2.2 Description of wireless module

Wireless Module	SP-KL1DX-G
Bluetooth Specification	V2.1+EDR
Modulation Type	GFSK, Pi/4 DQPSK, 8DPSK
Frequency Range	2402 - 2480 MHz
Channel Number	79
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Channel Separation	1MHz

Note: For more details, please refer to the EUT User manual.

### 2.3 Description of Antenna

Antenna	Manufacturer	Model No.	Peak Gain
Monopole Antenna	Weifang GoerTek Electronics Co.,Ltd	V03-1631	0.04dBi for2.4 GHz ~2.5 GHz



## 2.4 Carrier Frequency of Channels

Bluetooth Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2403 MHz	02	2404 MHz	03	2405 MHz
04	2406 MHz	05	2407 MHz	06	2408 MHz	07	2409 MHz
08	2410 MHz	09	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz	15	2417 MHz
16	2418 MHz	17	2419 MHz	18	2420 MHz	19	2421 MHz
20	2422 MHz	21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz	27	2429 MHz
28	2430 MHz	29	2431 MHz	30	2432 MHz	31	2433 MHz
32	2434 MHz	33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz	39	2441 MHz
40	2442 MHz	41	2443 MHz	42	2444 MHz	43	2445 MHz
44	2446 MHz	45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz	51	2453 MHz
52	2454 MHz	53	2455 MHz	54	2456 MHz	55	2457 MHz
56	2458 MHz	57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz	63	2465 MHz
64	2466 MHz	65	2467 MHz	66	2468 MHz	67	2469 MHz
68	2470 MHz	69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz	75	2477 MHz
76	2478 MHz	77	2479 MHz	78	2480 MHz	N/A	N/A

## 2.5 The Worst Case Configuration

### Data rate Configuration:

Test Mode	
DH5	✓
2DH5	✓
3DH5	✓



## 2.6 EUT Exercise Software

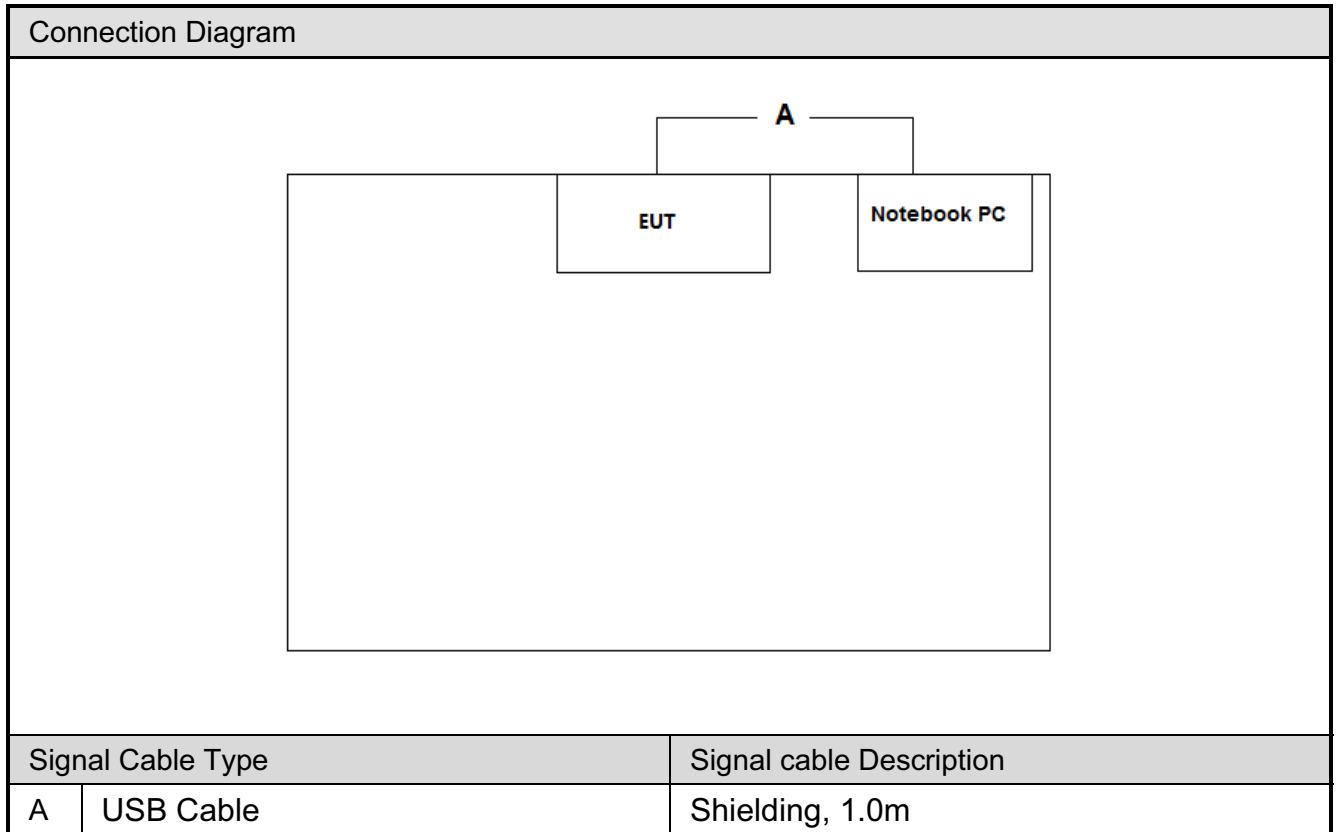
1	Turn on the power of equipment.
2	Run 'nRFUart', input RF test command and set the test mode and channel, then press OK to start continue transmit or receive.





### 2.7 Support equipment

Product	Manufacturer	Model No.	Serial No.	Power Cord
Notebook PC	SONY	PCG-71811P	N/A	N/A





### 3. General Information of Test Site

#### 3.1 Information of Test Site

Test Site	CerpPASS Technology(Suzhou) Co., Ltd.
Test Site Location	No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China
NVLAP LAB Code	200814-0
FCC Registration Number	916572, 331395
IC Registration Number	7290A-1, 7290A-2
VCCI Registration Number	T-1945 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test below 1GHz G-227 for Radiated emission test above 1GHz

#### 3.2 Measuring Equipment

RF Conducted Measuring Equipment-AC104					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
PC	Lenovo	E40-70	MP078UQV	N/A	N/A
Peak Power Sensor	Booton	55006	9778	2016.06.08	2017.06.07
Series Power Meter	ANRITSU	ML2495A	1224005	2016.03.27	2017.03.26
Temperature/Humidity Meter	Zhicheng	ZC1-11	CEP-TH-003	2016.03.31	2017.03.30
Spectrum Analyzer	N9010A	Agilent	MY53400169	2015.11.11	2016.11.11
Spectrum Analyzer	E4407B	Agilent	MY44211883	2015.10.15	2016.10.14

AC Conducted Measuring Equipment-SR101					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2016.07.07	2017.07.06
AMN	R&S	ESH2-Z5	100182	2015.09.06	2016.09.05
Two-Line V-Network	R&S	ENV216	100325	N/A	N/A
ISN	FCC	FCC-TLISN-T2-02	20379	2016.03.26	2017.03.25
ISN	FCC	FCC-TLISN-T4-02	20380	2016.06.24	2017.06.24
ISN	FCC	FCC-TLISN-T8-02	20381	2016.03.26	2017.03.25
ISN	TESEQ	ISN ST08	30175	2016.03.26	2017.03.25
Current Probe	R&S	EZ-17	100303	2016.03.26	2017.03.25
Passive Voltage Probe	R&S	ESH2-Z3	100026	2016.03.26	2017.03.25
Pulse Limiter	R&S	ESH3-Z2	100529	2016.03.26	2017.03.25
Temperature/Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2016.03.29	2017.03.28
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



Radiated Measuring Equipment-AC102					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI	101183	2016.06.29	2017.06.28
Spectrum Analyzer	N9010A	Agilent	MY53400169	2015.11.11	2016.11.11
Spectrum Analyzer	R&S	FSP40	100324	2016.03.26	2017.03.25
Preamplifier	COM-POWER	PA-840	711885	2016.03.26	2017.03.25
Bilog Antenna	Sunol Science	JB1	A072414-1	2016.04.16	2017.04.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2016.04.16	2017.04.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2016.04.16	2017.04.15
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2016.03.31	2017.03.30

### 3.3 Measurement Uncertainty

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

#### RF Conducted Measurement

Test Item		Uncertainty	Limit
Radio Frequency		$\pm 8.7 \times 10^{-7}$	$\pm 1 \times 10^{-5}$
RF output power, conducted		$\pm 0.63\text{dB}$	$\pm 1.5\text{dB}$
Power density, conducted		$\pm 1.21\text{dB}$	$\pm 3\text{dB}$
Unwanted emissions, conducted	30-1000MHz	$\pm 0.51\text{dB}$	$\pm 3\text{dB}$
	1-12.75GHz	$\pm 0.67\text{dB}$	$\pm 3\text{dB}$
All emissions, radiated	30-1000MHz	$\pm 2.28\text{dB}$	$\pm 6\text{dB}$
	1-12.75GHz	$\pm 2.59\text{dB}$	$\pm 6\text{dB}$
Temperature		$\pm 0.8^\circ\text{C}$	$\pm 1^\circ\text{C}$
Humidity		$\pm 3\%$	$\pm 5\%$
DC and low frequency voltages		$\pm 3\%$	$\pm 3\%$

AC Conducted Measurement

Measurement	Frequency	Uncertainty
Conducted emissions(LINE)	9KHz-30MHz	+/- 0.7738 dB
Conducted emissions(NEUTRAL)	9KHz-30MHz	+/- 0.7886 dB
Conducted emissions(10Mbps)	150KHz-30MHz	+/- 1.3013dB
Conducted emissions(100Mbps)	150KHz-30MHz	+/- 1.3197 dB
Conducted emissions(1000Mbps)	150KHz-30MHz	+/- 1.2987 dB

Radiated Measurement

Measurement	Polarity	Frequency	Uncertainty
Radiated emissions	Horizontal	below 1GHz	+/- 3.8936 dB
	Vertical	below 1GHz	+/- 3.8928 dB
	Horizontal	above 1GHz	+/- 5.18858dB
	Vertical	above 1GHz	+/- 5.18928 dB



## 4. AC Conducted Emission Measurement

### 4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.10-2013 Section 6.2. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 6.2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

\*Decreases with the logarithm of the frequency.

### 4.2 Test Standard

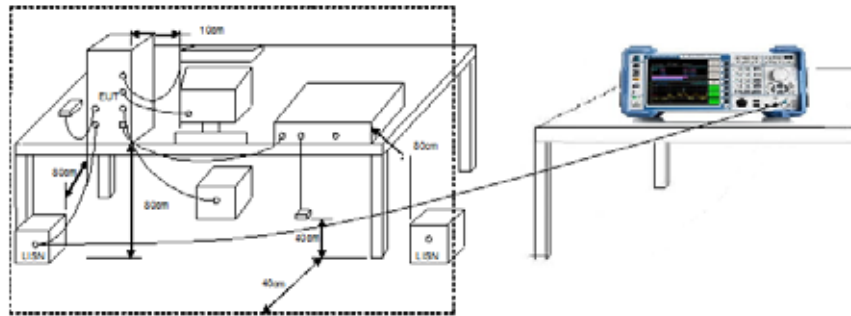
ANSI C63.10-2013 Section 6.2.

### 4.3 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



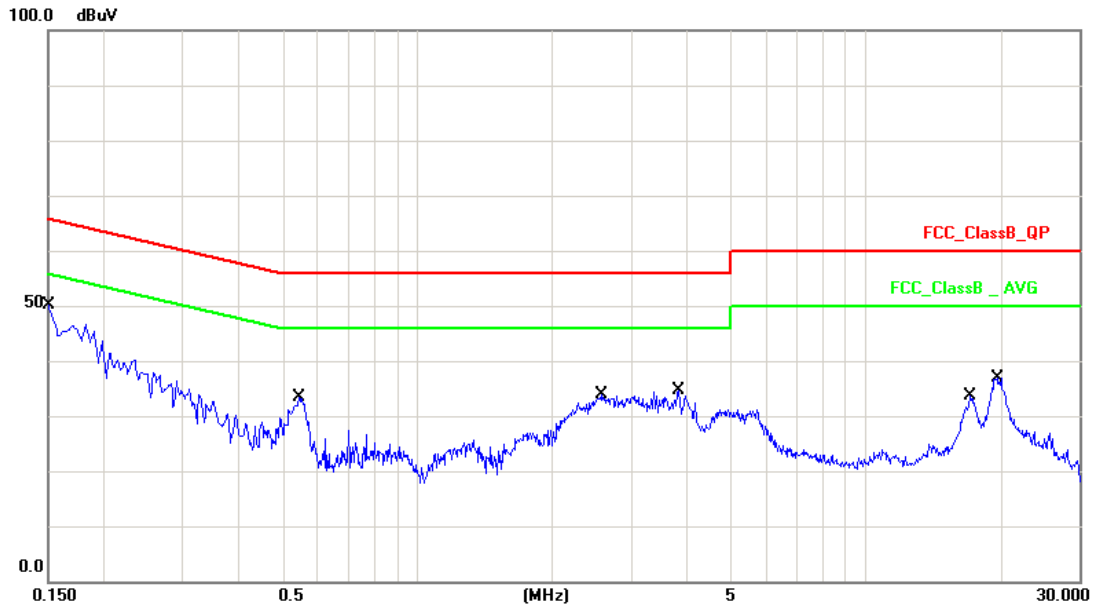
#### 4.4 Test Setup Layout





### 4.5 Test Result

Test Mode :	Mode 1: Normal Operation with BT on		
AC Power :	AC 120V/60Hz	Phase:	LINE
Temperature :	26°C	Humidity:	60%
Pressure(mbar) :	1002	Date:	2016/08/31

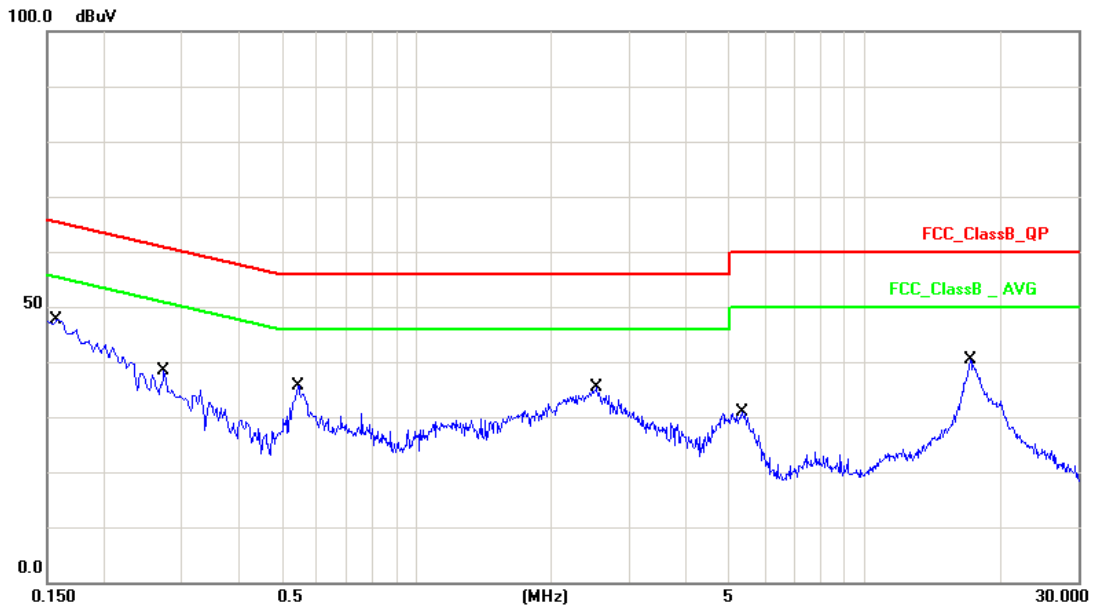


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	35.25	45.38	65.99	-20.61	QP
2	0.1500	10.13	16.14	26.27	55.99	-29.72	AVG
3	0.5460	10.16	21.07	31.23	56.00	-24.77	QP
4	0.5460	10.16	14.80	24.96	46.00	-21.04	AVG
5	2.5940	10.18	20.61	30.79	56.00	-25.21	QP
6	2.5940	10.18	14.33	24.51	46.00	-21.49	AVG
7	3.8340	10.20	19.66	29.86	56.00	-26.14	QP
8	3.8340	10.20	12.36	22.56	46.00	-23.44	AVG
9	17.1460	10.44	17.55	27.99	60.00	-32.01	QP
10	17.1460	10.44	11.68	22.12	50.00	-27.88	AVG
11	19.7220	10.35	21.46	31.81	60.00	-28.19	QP
12	19.7220	10.35	15.66	26.01	50.00	-23.99	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Normal Operation with BT on		
AC Power :	AC 120V/60Hz	Phase :	NEUTRAL
Temperature :	26°C	Humidity :	60%
Pressure(mbar) :	1002	Date:	2016/08/31



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	10.13	34.20	44.33	65.56	-21.23	QP
2	0.1580	10.13	17.86	27.99	55.56	-27.57	AVG
3	0.2740	10.13	22.56	32.69	60.99	-28.30	QP
4	0.2740	10.13	11.16	21.29	50.99	-29.70	AVG
5	0.5460	10.15	23.08	33.23	56.00	-22.77	QP
6	0.5460	10.15	16.07	26.22	46.00	-19.78	AVG
7	2.5340	10.19	21.41	31.60	56.00	-24.40	QP
8	2.5340	10.19	15.82	26.01	46.00	-19.99	AVG
9	5.3380	10.26	15.63	25.89	60.00	-34.11	QP
10	5.3380	10.26	7.26	17.52	50.00	-32.48	AVG
11	17.2900	10.48	24.25	34.73	60.00	-25.27	QP
12	17.2900	10.48	18.74	29.22	50.00	-20.78	AVG

Note: Measurement Level = Reading Level + Correct Factor





## 5. Radiated Emission Measurement

### 5.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (micro volts/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
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

Frequency (MHz)	Distance Meters	Radiated (dB $\mu$ V/ M)
30-230	10	30
230-1000	10	37

### 5.2 Test Standard

ANSI C63.10-2013 Section 6.5 & Section 6.6



### 5.3 Test Procedures

Peak Field Strength Measurements:

Analyzer center frequen was set to the frequency of the radiated spurious emission of interest

1. RBW=As specified in Table 1
2. VBW=3×RBW
3. Detector=Peak
4. Trace mode=Max hold
5. Sweep time=Auto couple
6. Allow the trace to stabilize

Table 1-RBW as a function of frequency

Frequency	RBW
9 ~ 150kHz	200 ~ 300Hz
0.15 ~ 30MHz	9 ~ 10kHz
30 ~ 1000MHz	100 ~ 120kHz
> 1000MHz	1MHz

AVE Field Strength Measurements:

Analyzer center frequen was set to the frequency of the radiated spurious emission of interest

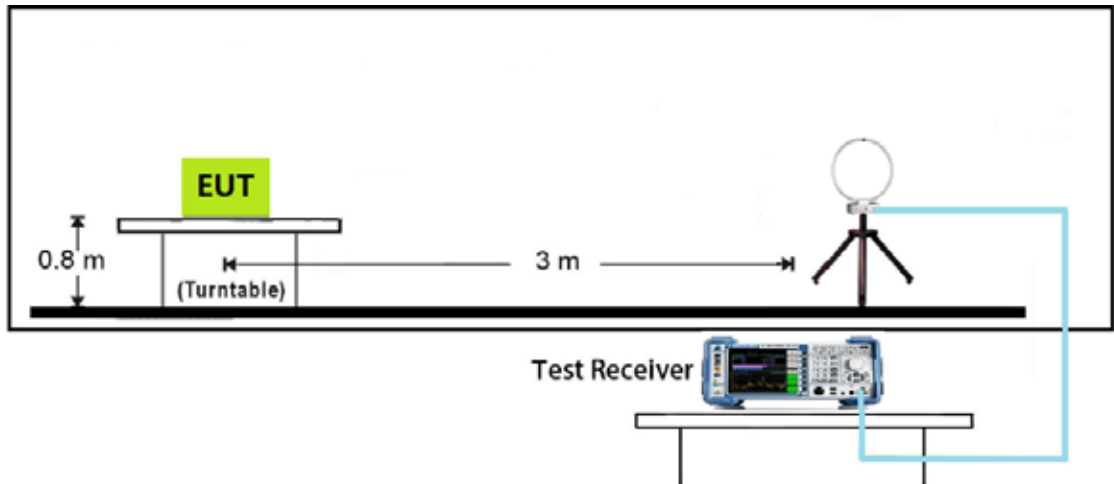
1. RBW= 1MHz
2. VBW≥1/T
3. Detector=Peak
4. Trace mode=Max hold
5. Sweep time=Auto couple
6. Allow max hold to run for at least 50 times(1/duty cycle) trace

Do as an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode

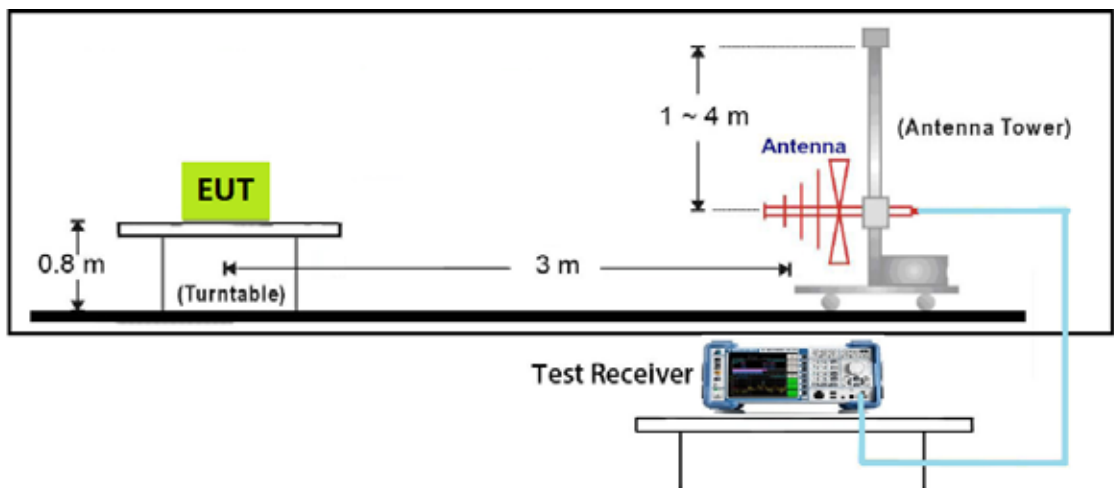


### 5.4 Test Setup Layout

9kHz~30MHz Test Setup

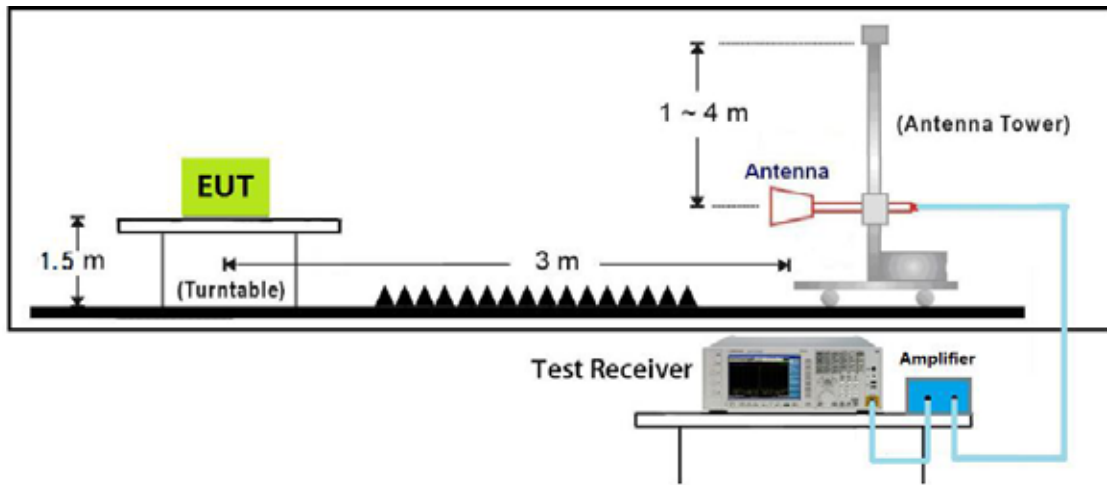


Below 1GHz Test Setup

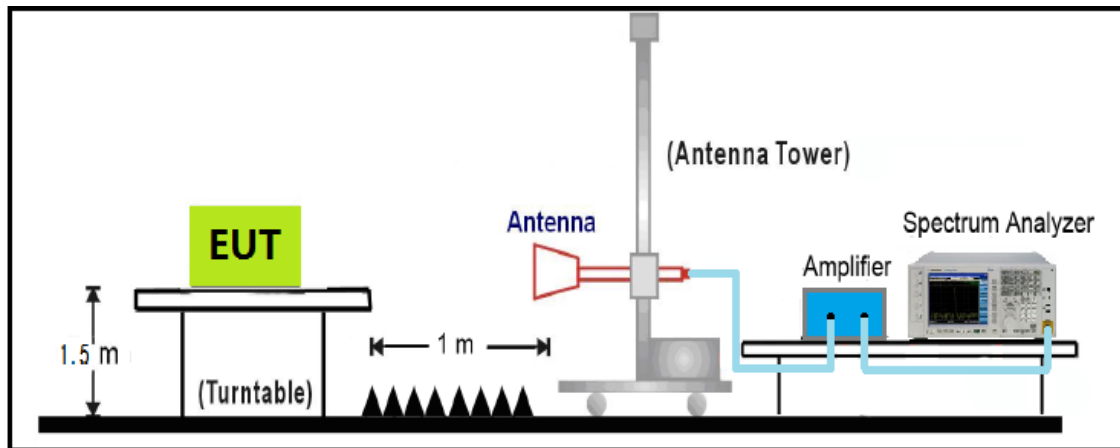




1GHz~18GHz Test Setup



18GHz~40GHz Test Setup

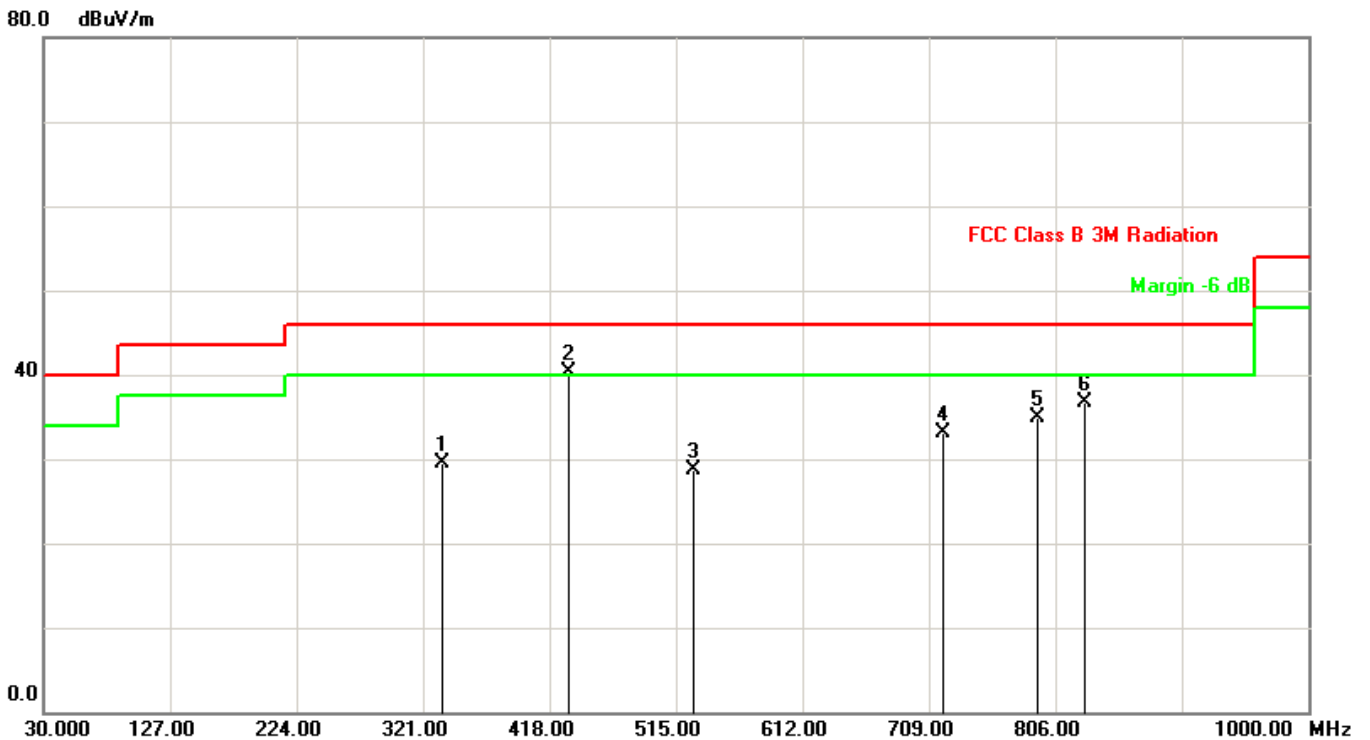




### 5.5 Test Result

The worst case of Radiated Emission below 1GHz:

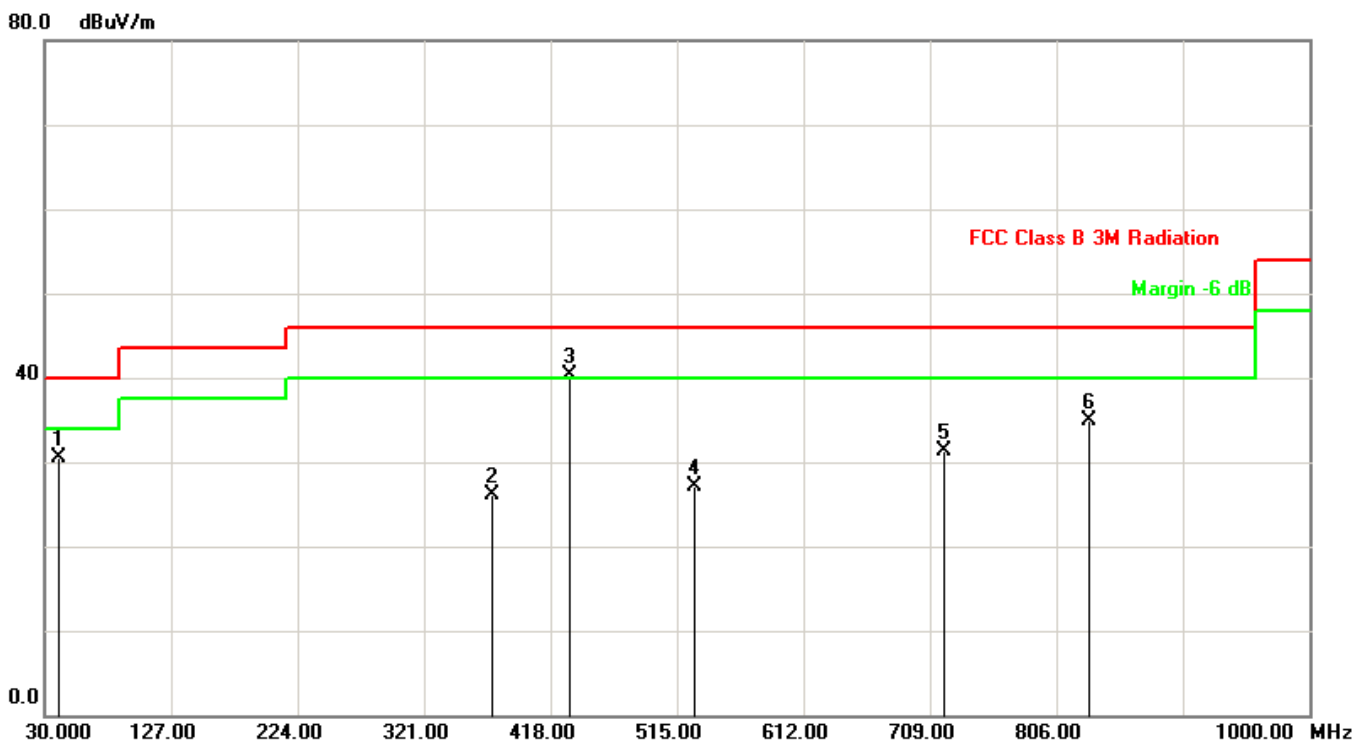
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2402MHz	



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	335.5500	-6.50	35.96	29.46	46.00	-16.54	QP
2	432.5500	-4.61	44.94	40.33	46.00	-5.67	QP
3	528.5800	-4.26	33.05	28.79	46.00	-17.21	QP
4	720.6399	1.39	31.78	33.17	46.00	-12.83	QP
5	792.4198	0.74	34.17	34.91	46.00	-11.09	QP
6	828.3099	1.17	35.59	36.76	46.00	-9.24	QP



Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2402MHz	

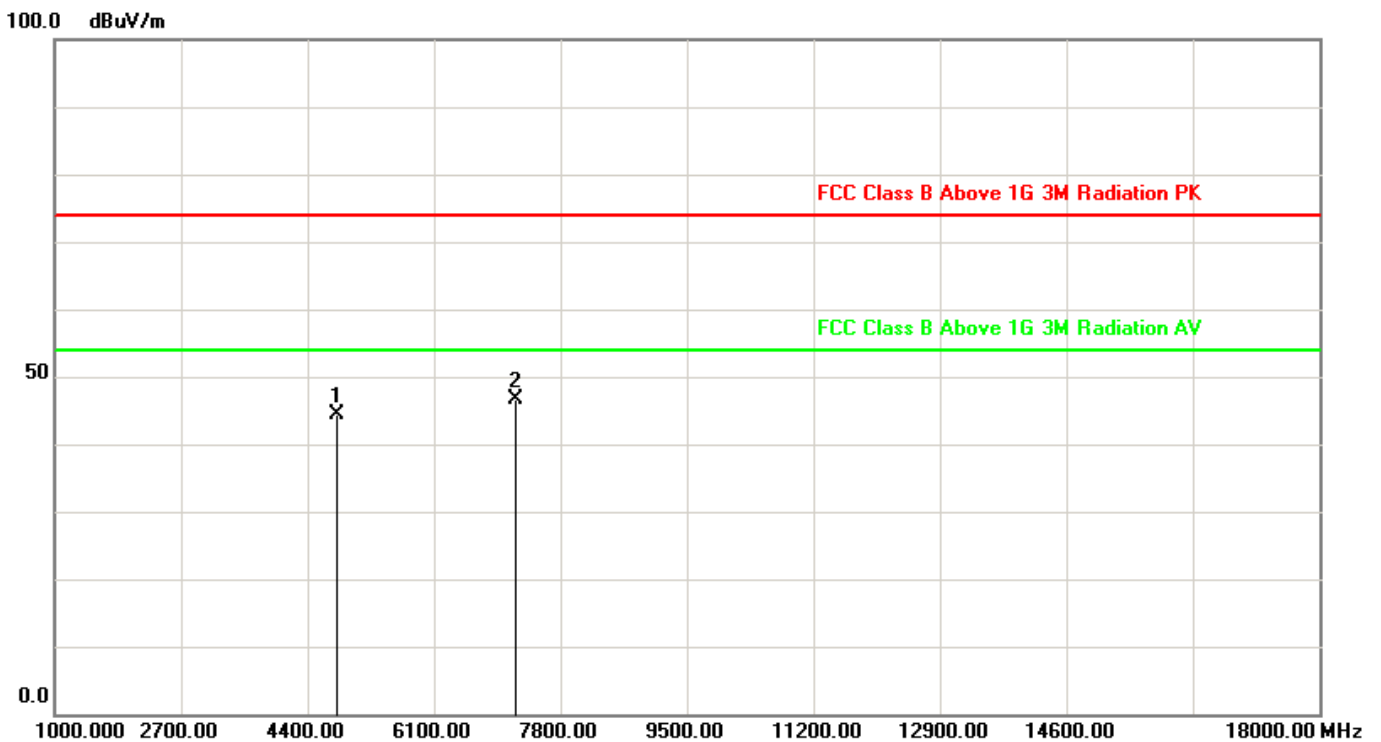


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	40.6699	-6.57	37.08	30.51	40.00	-9.49	QP
2	373.3798	-6.96	33.04	26.08	46.00	-19.92	QP
3	432.5500	-4.61	44.91	40.30	46.00	-5.70	QP
4	528.5800	-4.26	31.30	27.04	46.00	-18.96	QP
5	720.6399	1.39	29.98	31.37	46.00	-14.63	QP
6	831.2199	1.24	33.71	34.95	46.00	-11.05	QP



Radiated Emission above 1GHz:

Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:001	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2402MHz	



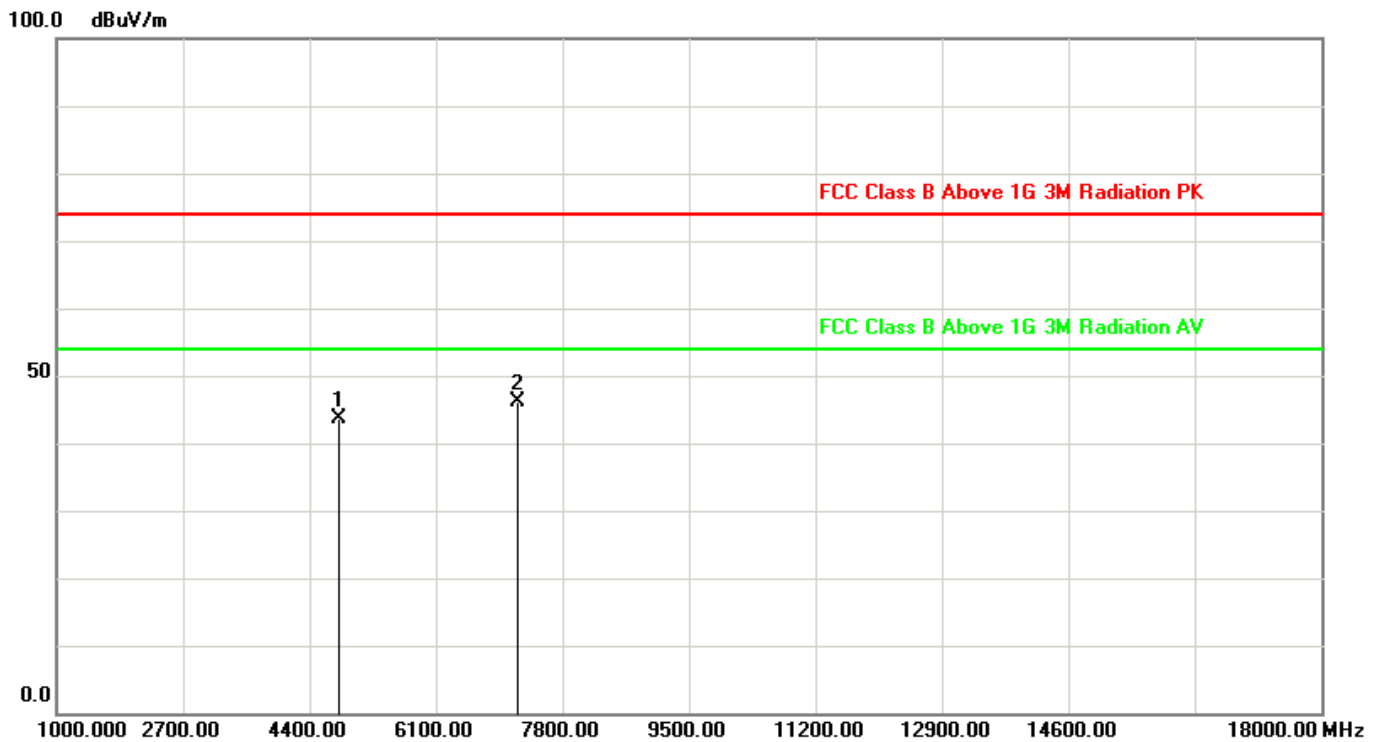
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	48.37	44.48	74.00	-29.52	peak
2	7206.000	0.54	46.09	46.63	74.00	-27.37	peak

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:001	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2402MHz	



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	47.42	43.53	74.00	-30.47	peak
2	7206.000	0.54	45.55	46.09	74.00	-27.91	peak

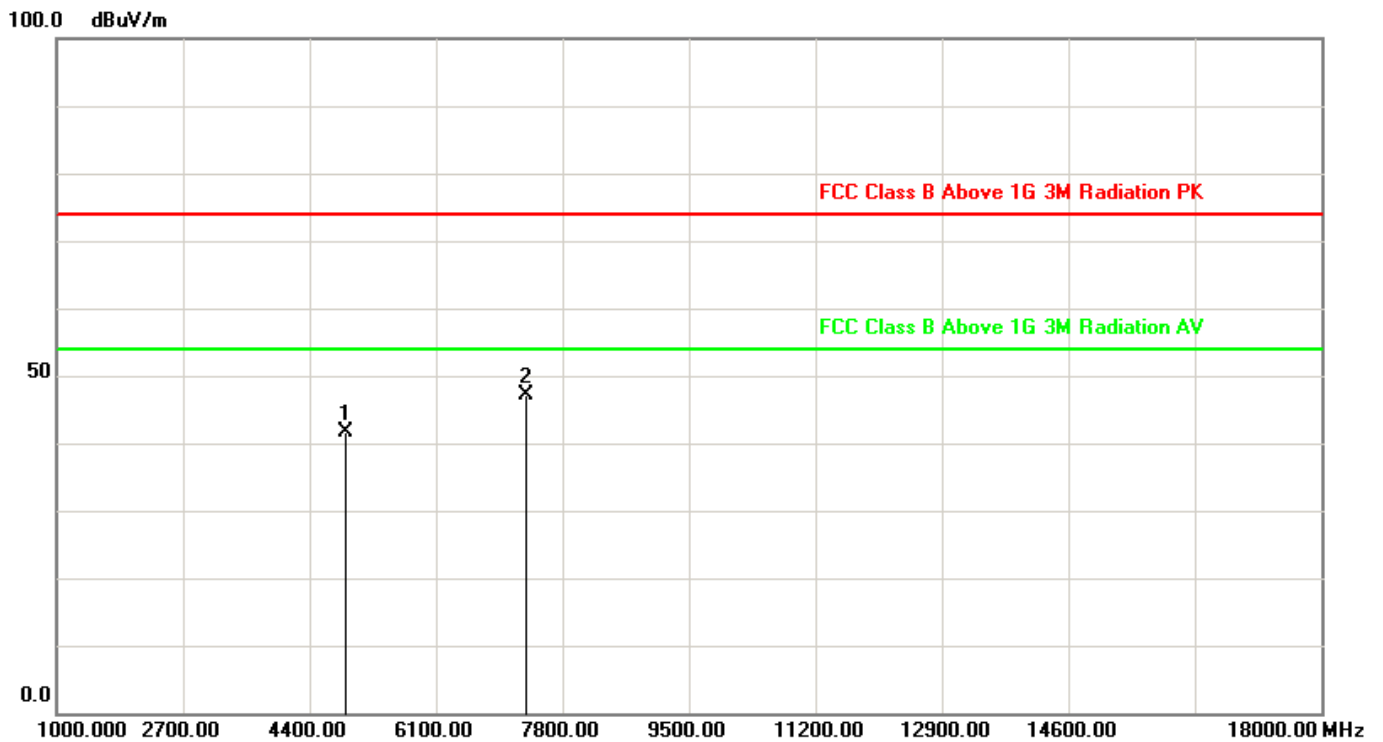
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:001	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2441MHz	



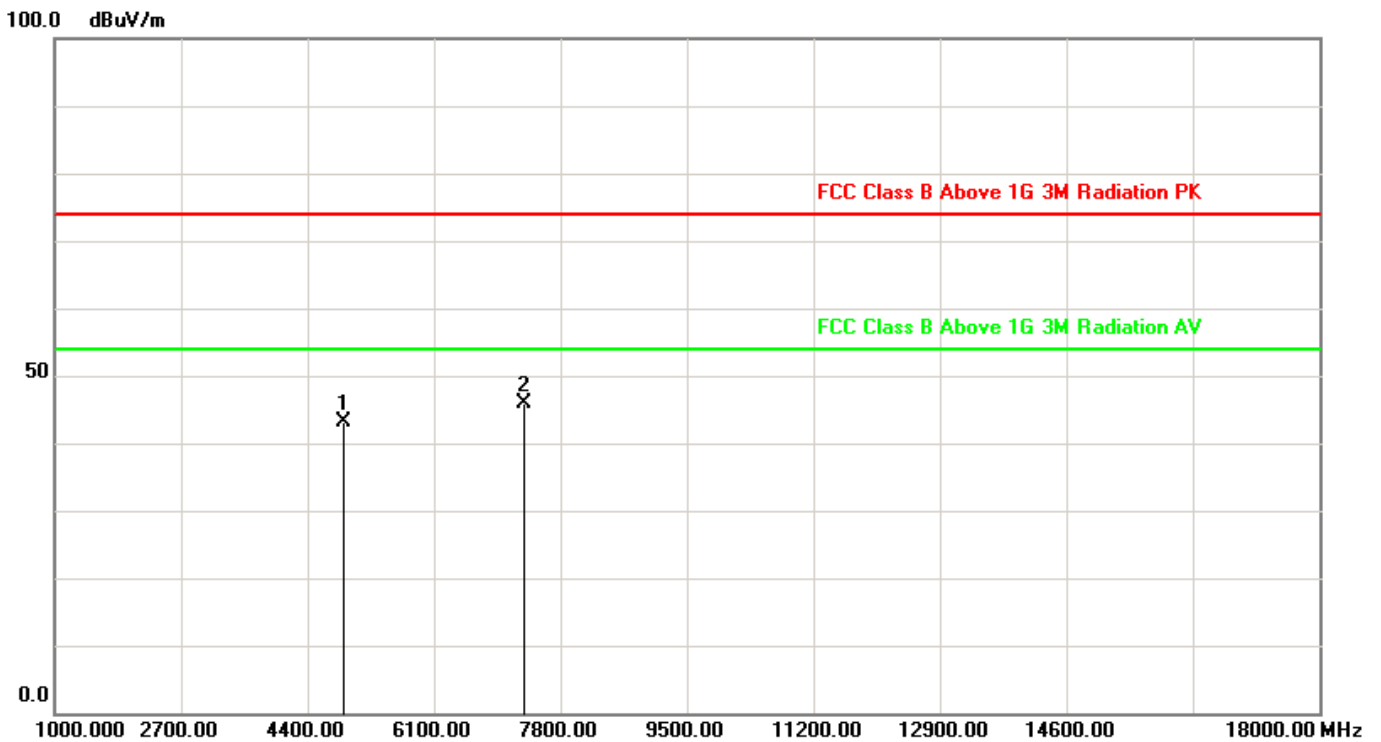
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	45.56	41.72	74.00	-32.28	peak
2	7323.000	0.82	46.40	47.22	74.00	-26.78	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:001	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2441MHz	



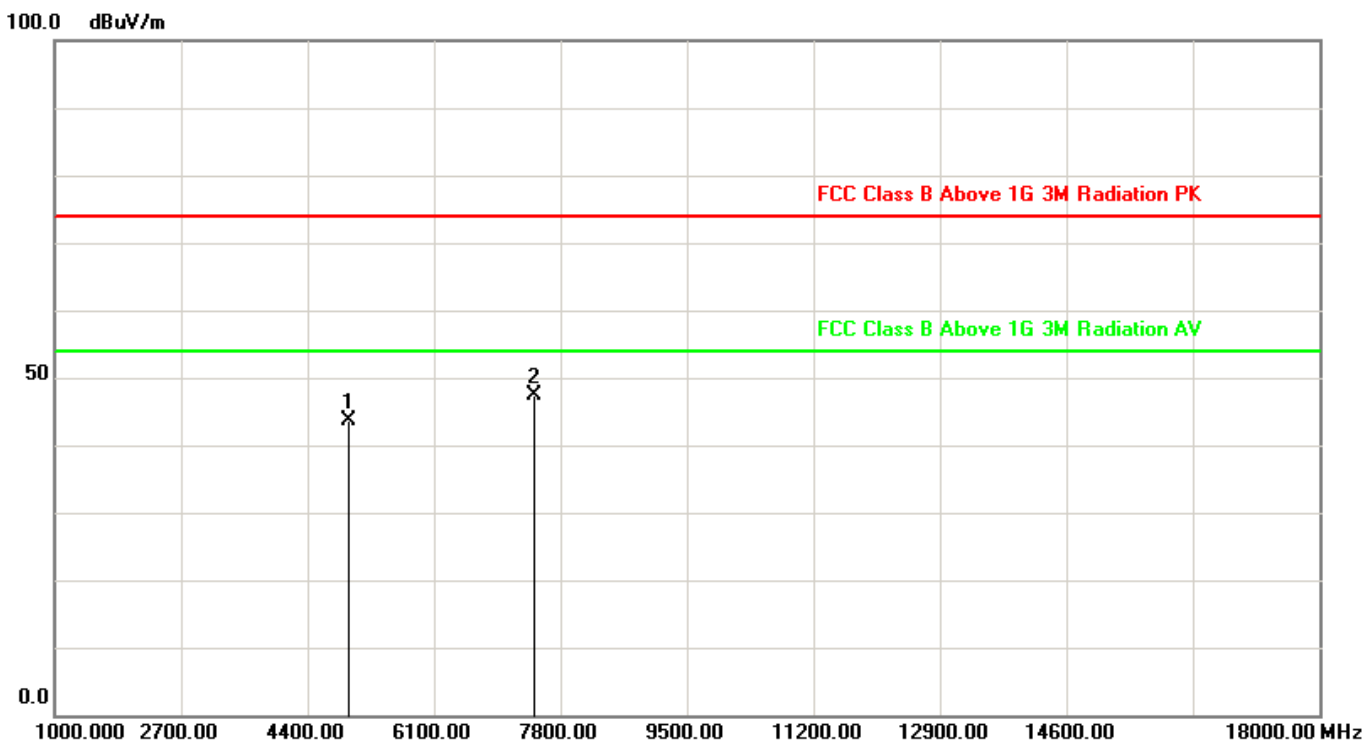
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	46.97	43.13	74.00	-30.87	peak
2	7323.000	0.82	45.00	45.82	74.00	-28.18	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:001	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2480MHz	



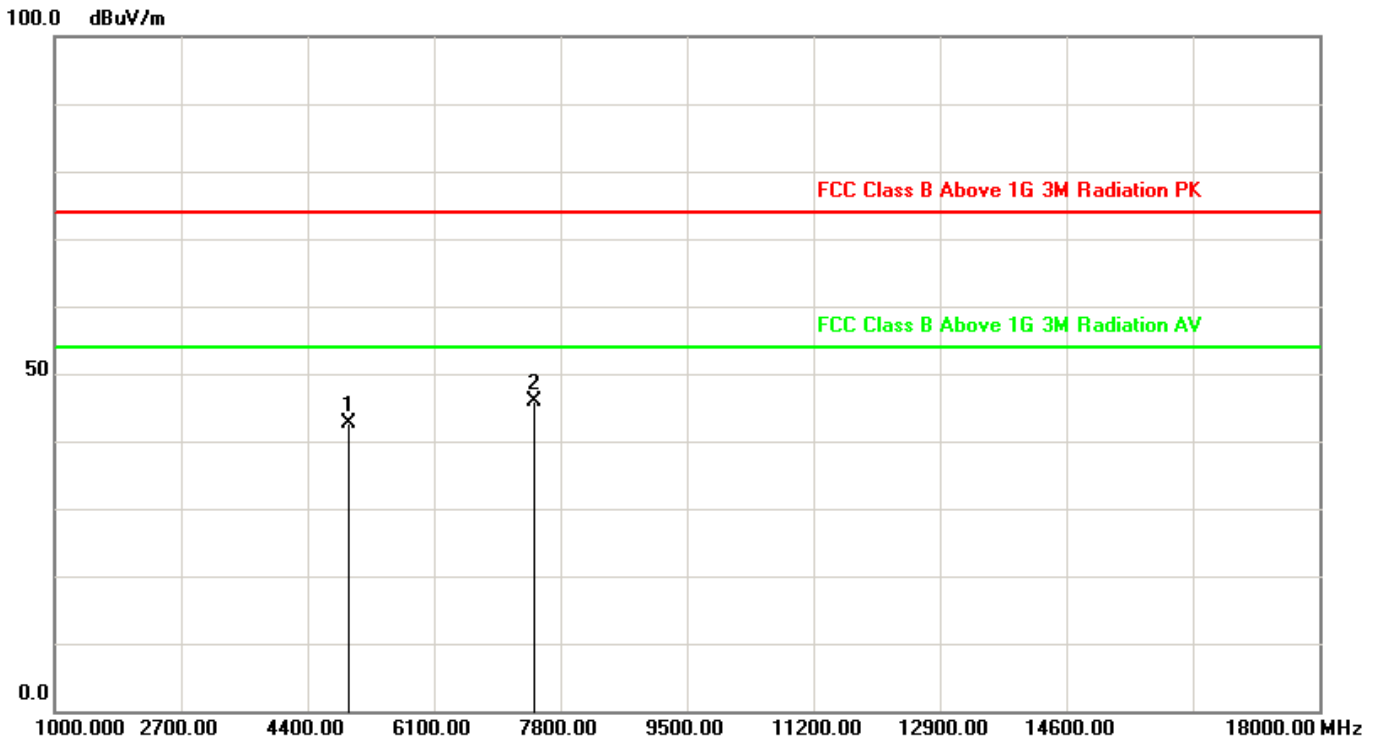
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	47.33	43.54	74.00	-30.46	peak
2	7440.000	1.10	46.17	47.27	74.00	-26.73	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:001	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2480MHz	



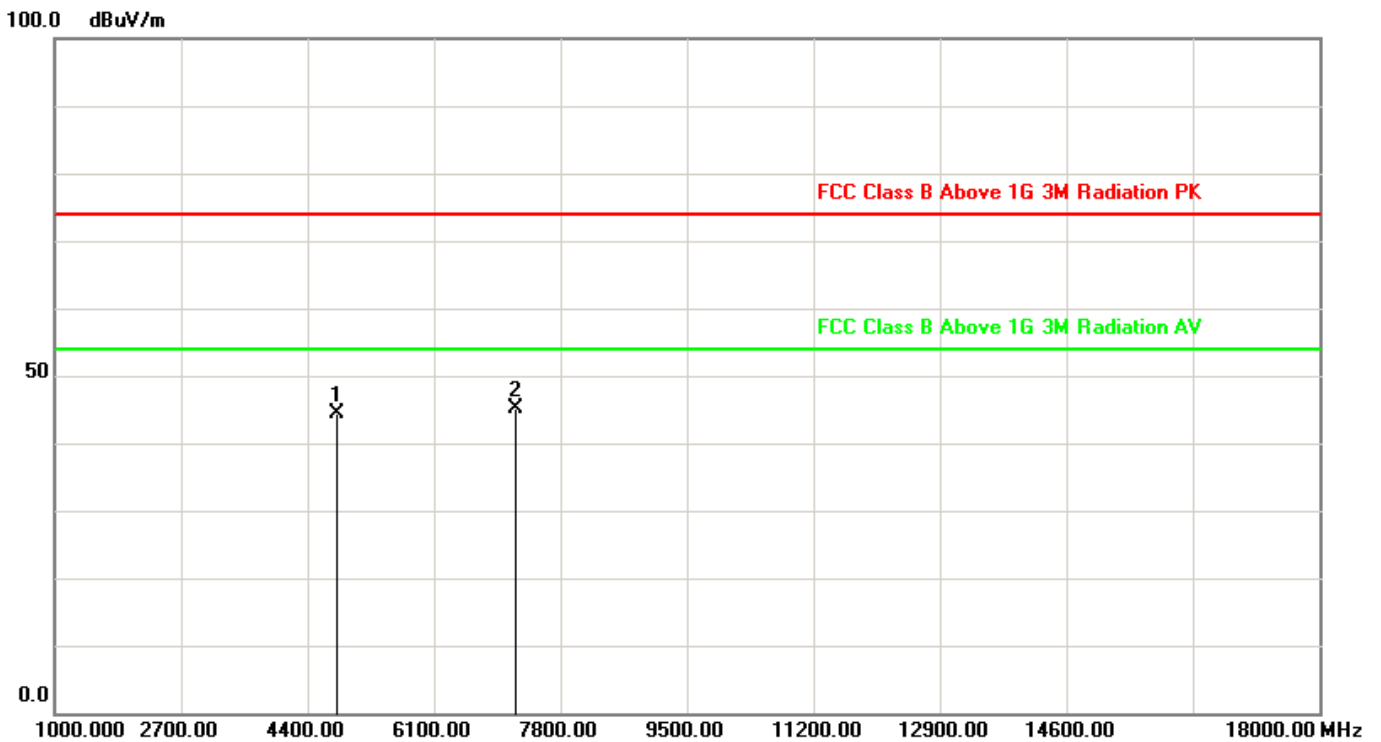
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	46.47	42.68	74.00	-31.32	peak
2	7440.000	1.10	44.70	45.80	74.00	-28.20	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:001	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2402MHz	



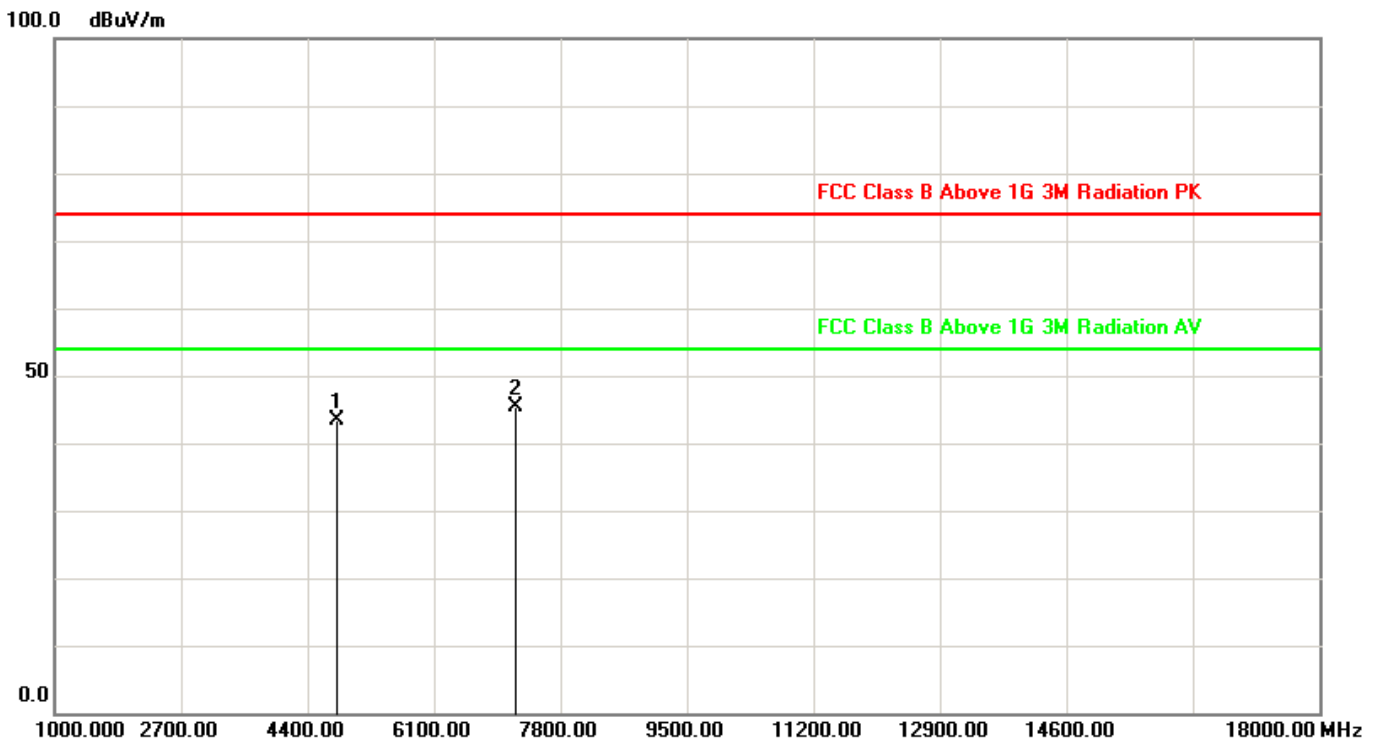
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	48.35	44.46	74.00	-29.54	peak
2	7206.000	0.54	44.47	45.01	74.00	-28.99	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:001	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2402MHz	



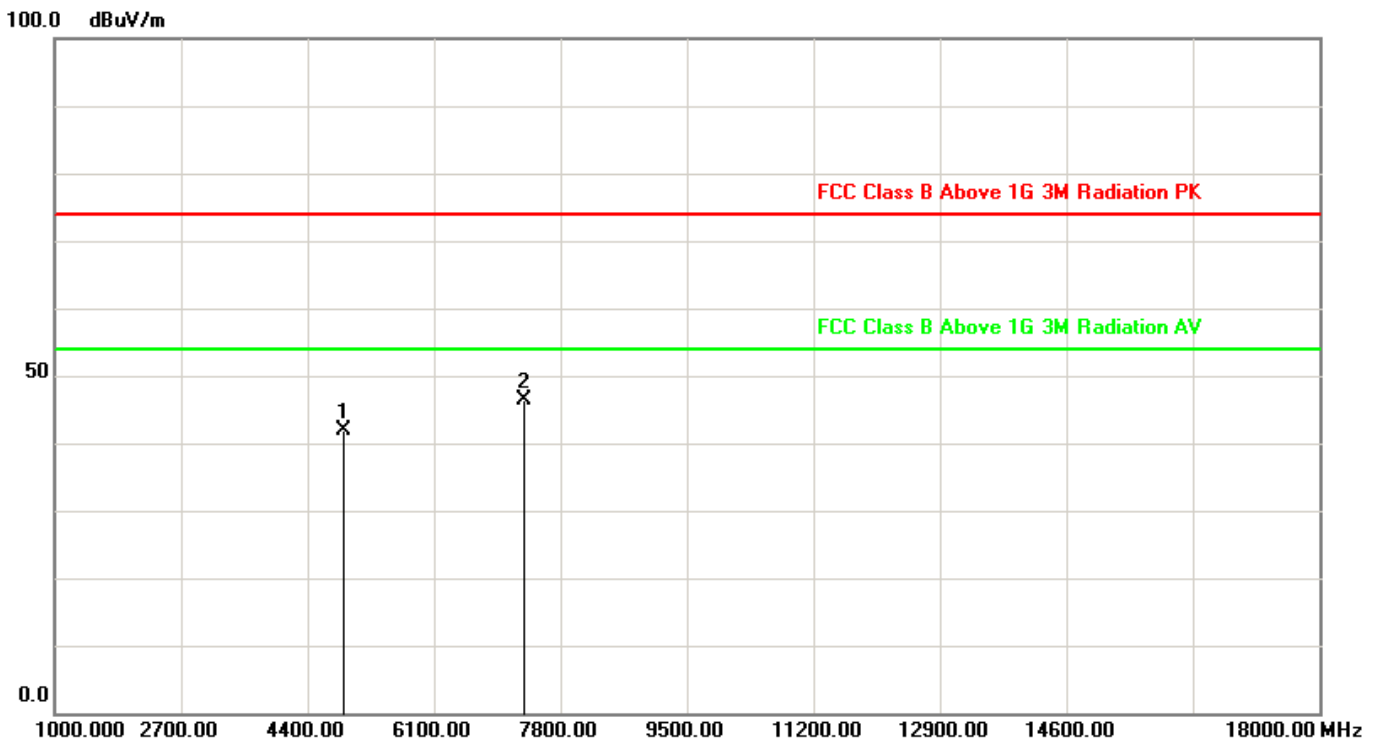
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	47.20	43.31	74.00	-30.69	peak
2	7206.000	0.54	44.91	45.45	74.00	-28.55	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:001	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2441MHz	



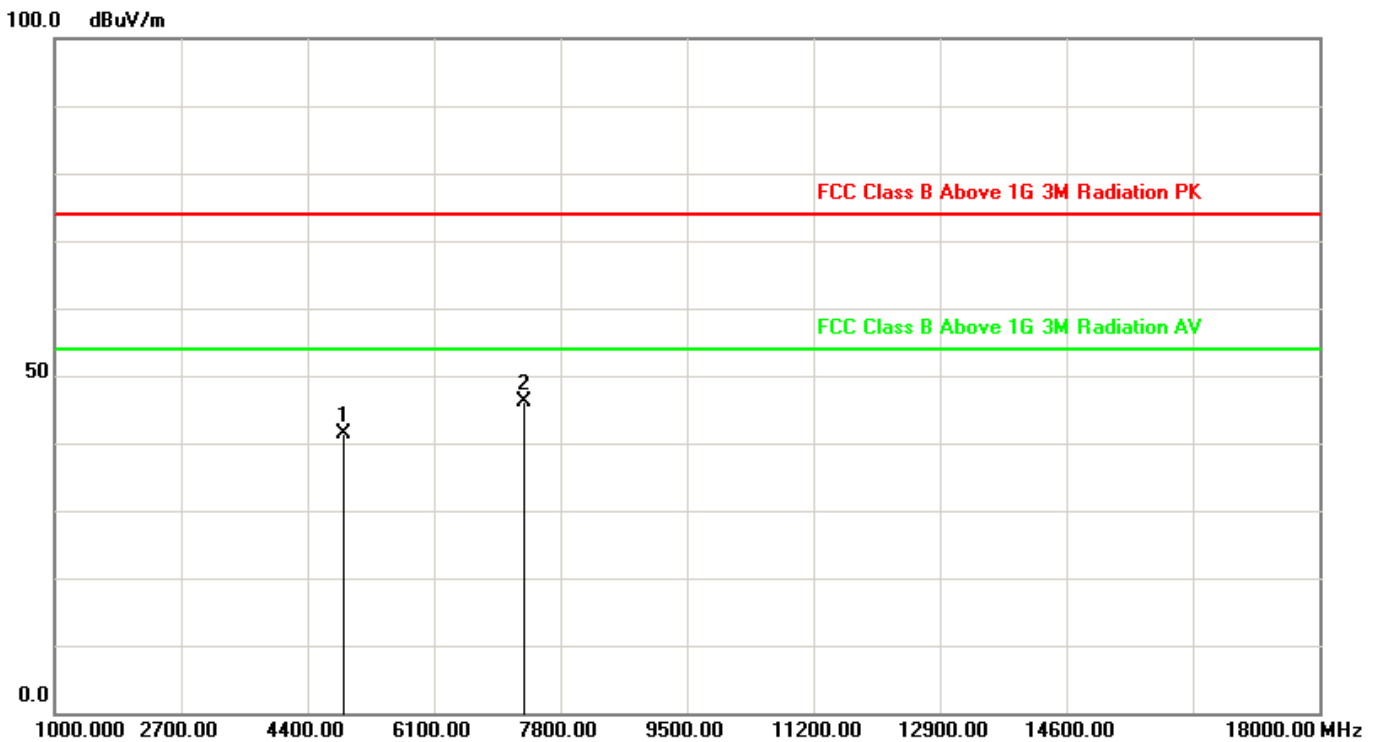
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	45.83	41.99	74.00	-32.01	peak
2	7323.000	0.82	45.52	46.34	74.00	-27.66	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:001	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2441MHz	



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	45.15	41.31	74.00	-32.69	peak
2	7323.000	0.82	45.25	46.07	74.00	-27.93	peak

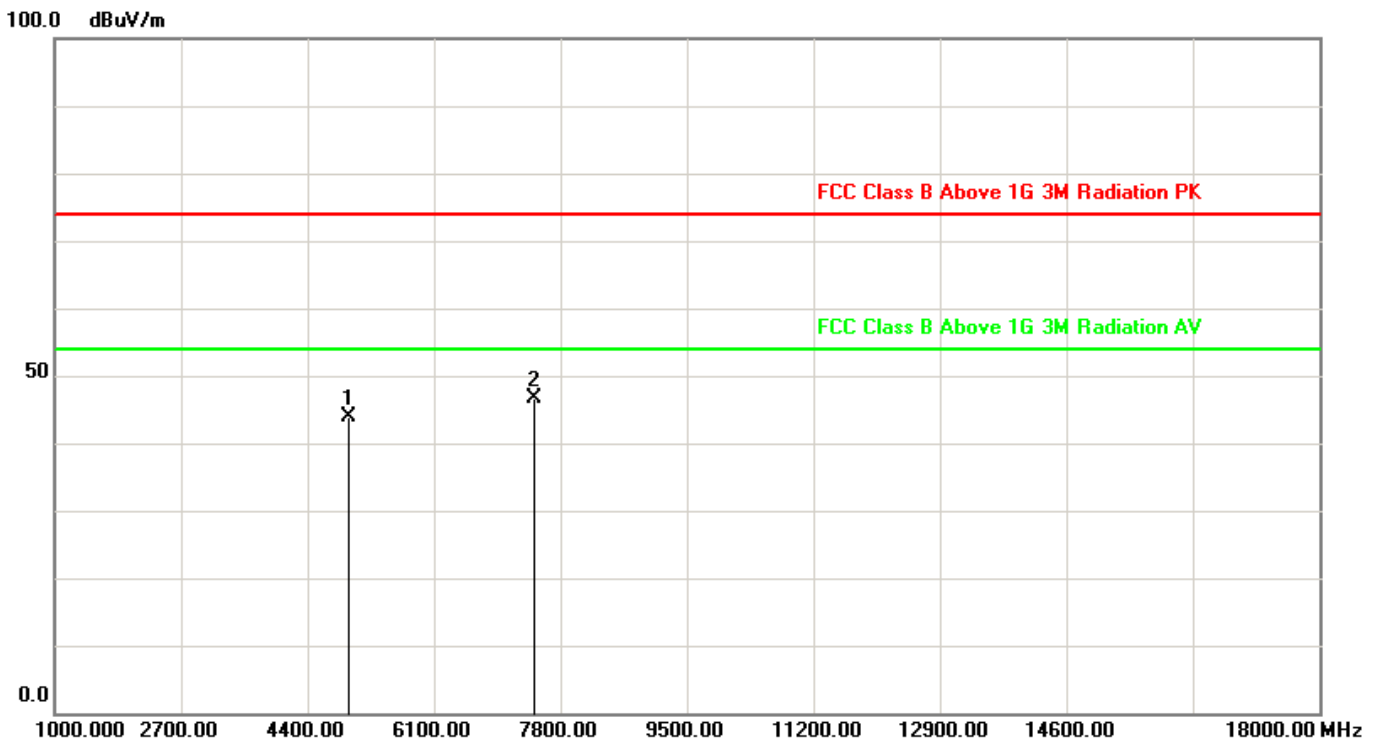
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:001	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2480MHz	



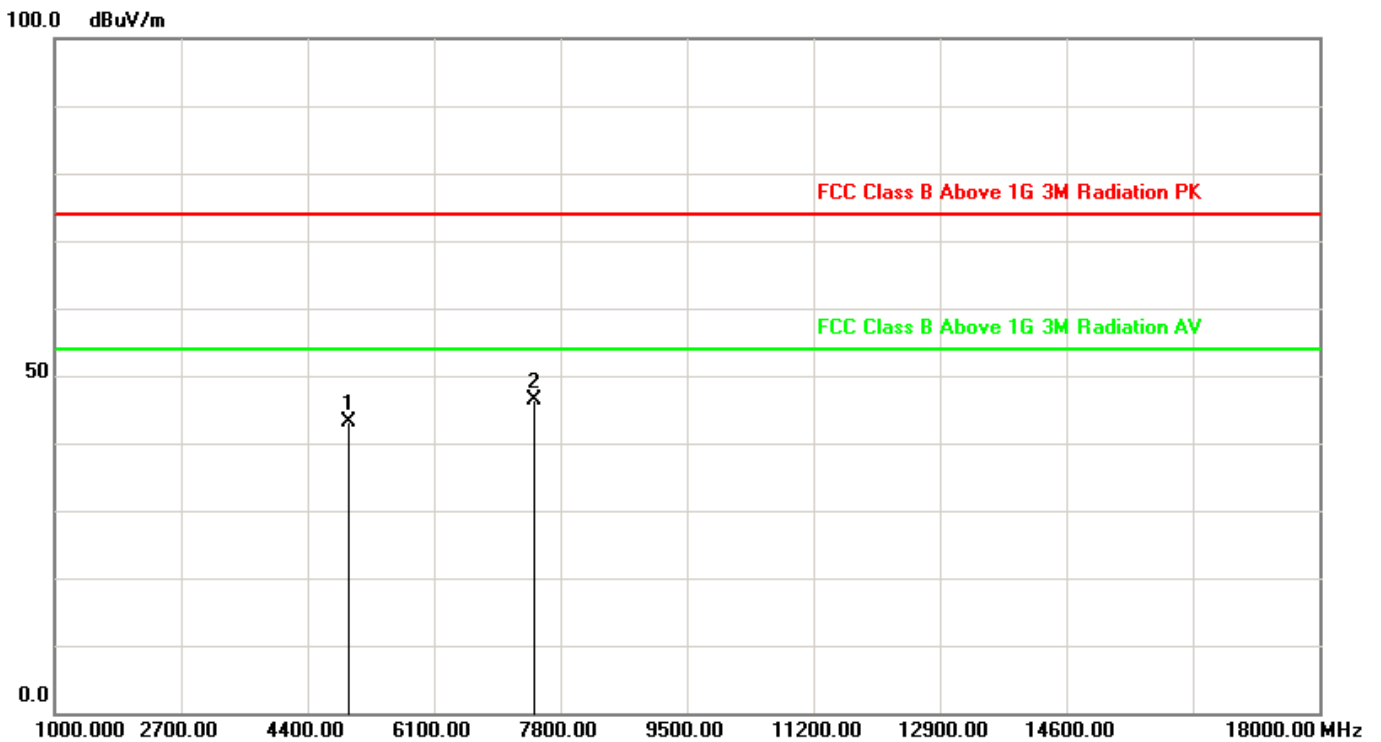
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	47.69	43.90	74.00	-30.10	peak
2	7440.000	1.10	45.60	46.70	74.00	-27.30	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:001	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2480MHz	



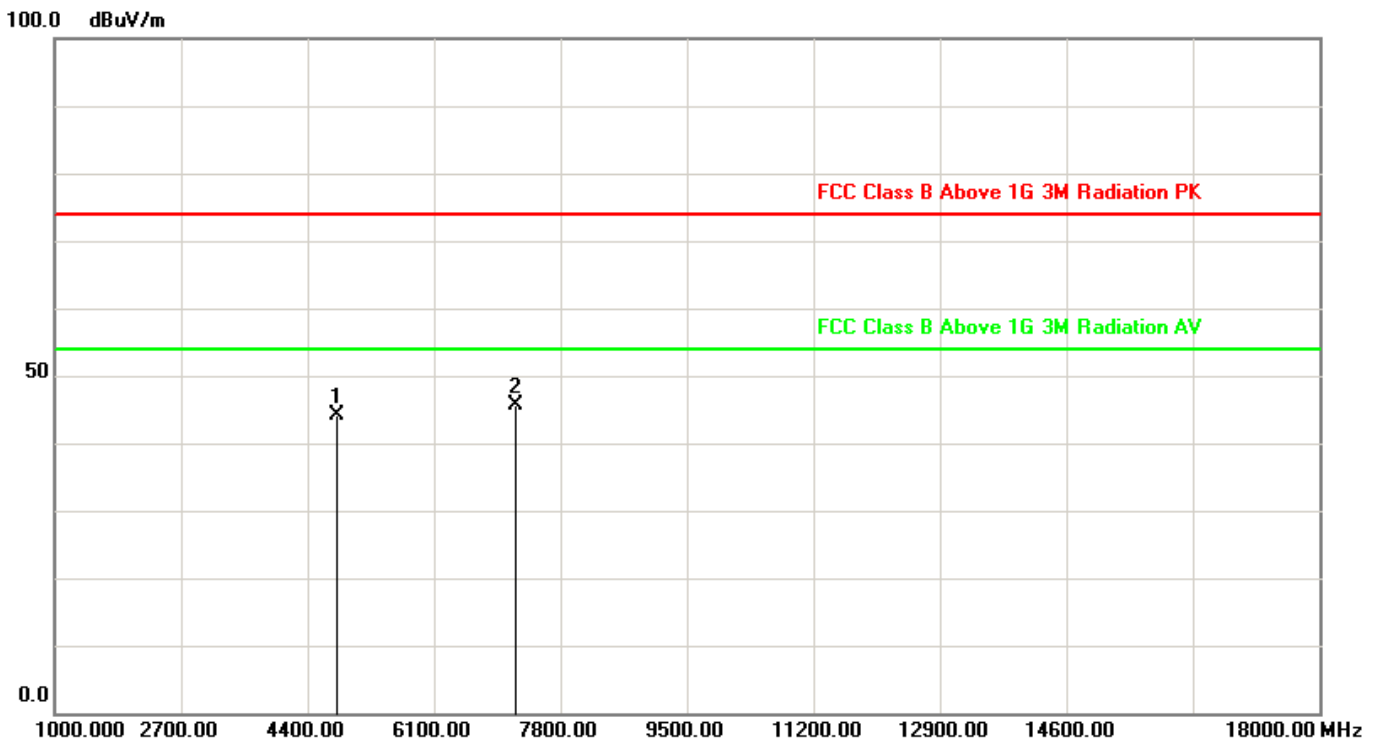
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	47.02	43.23	74.00	-30.77	peak
2	7440.000	1.10	45.33	46.43	74.00	-27.57	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:001	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2402MHz	



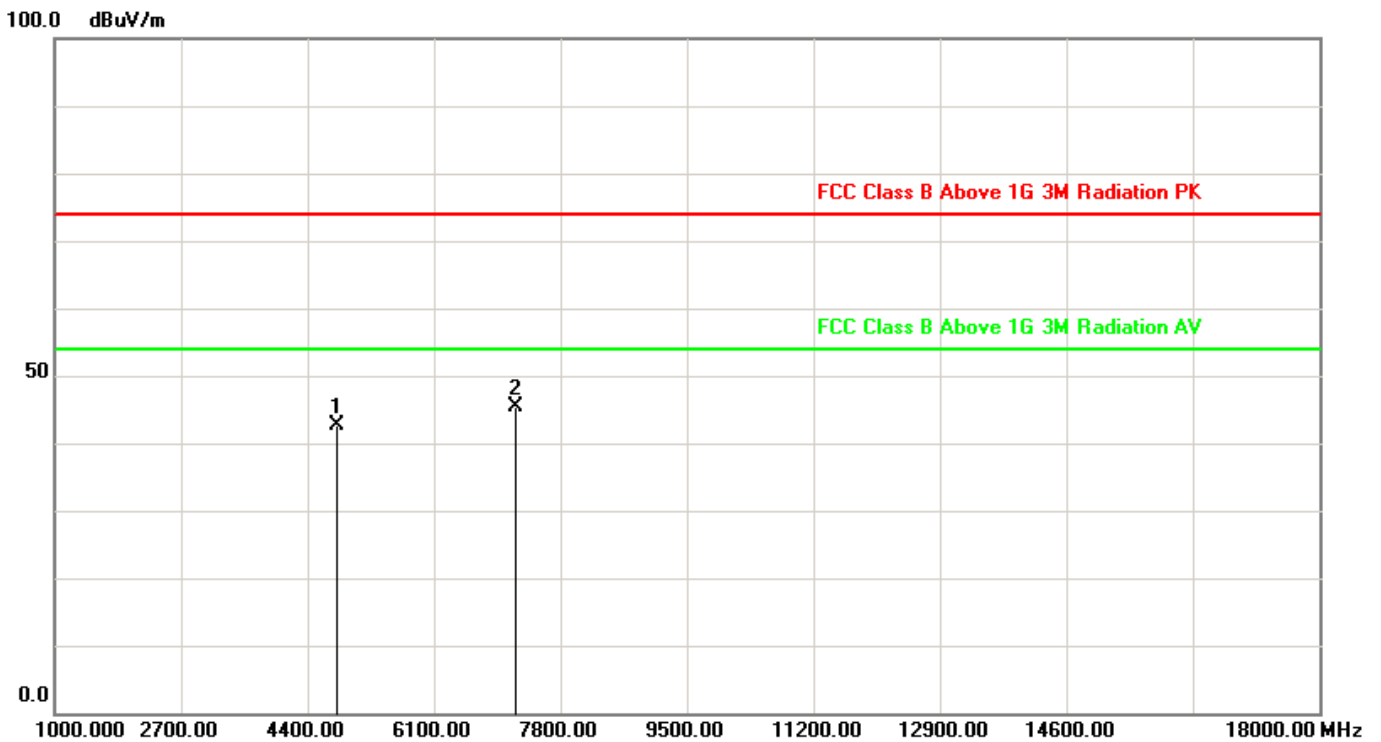
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	47.94	44.05	74.00	-29.95	peak
2	7206.000	0.54	45.15	45.69	74.00	-28.31	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:001	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2402MHz	



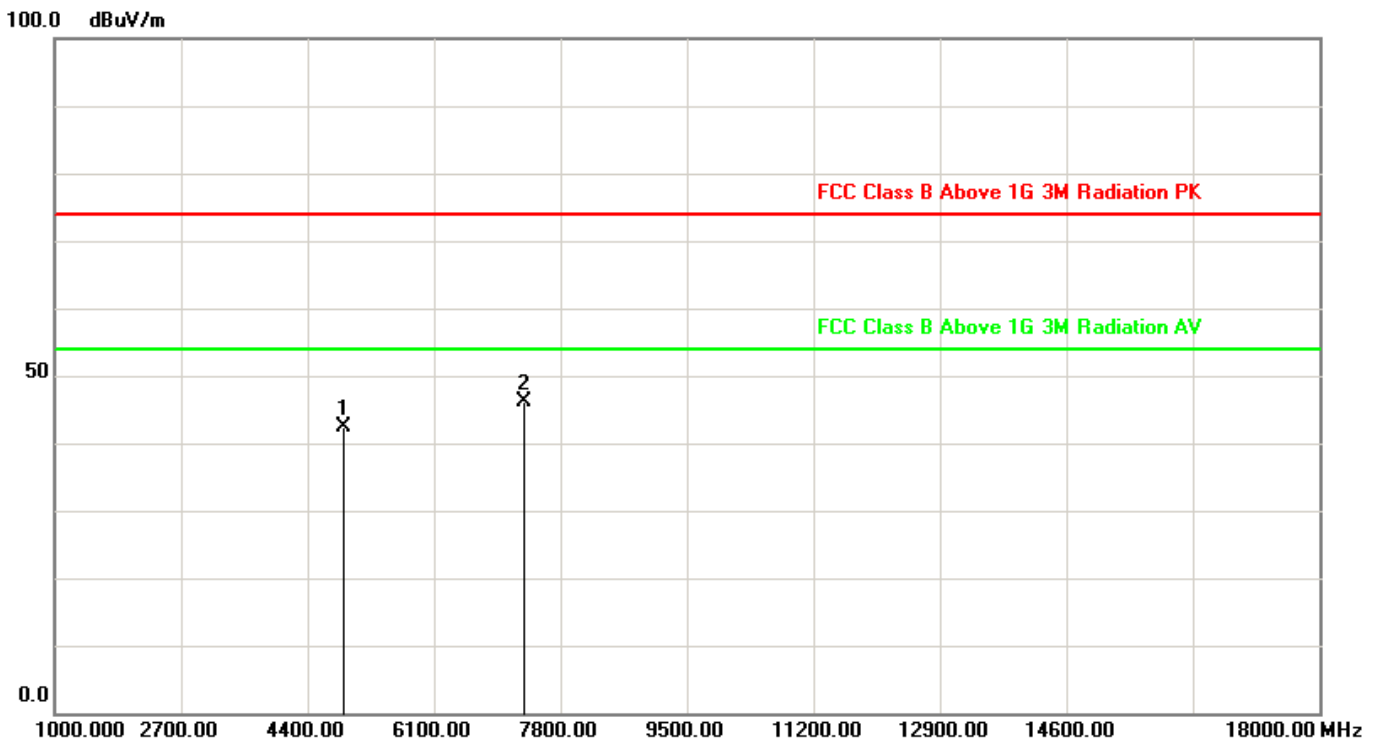
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	46.59	42.70	74.00	-31.30	peak
2	7206.000	0.54	44.84	45.38	74.00	-28.62	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:001	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2441MHz	



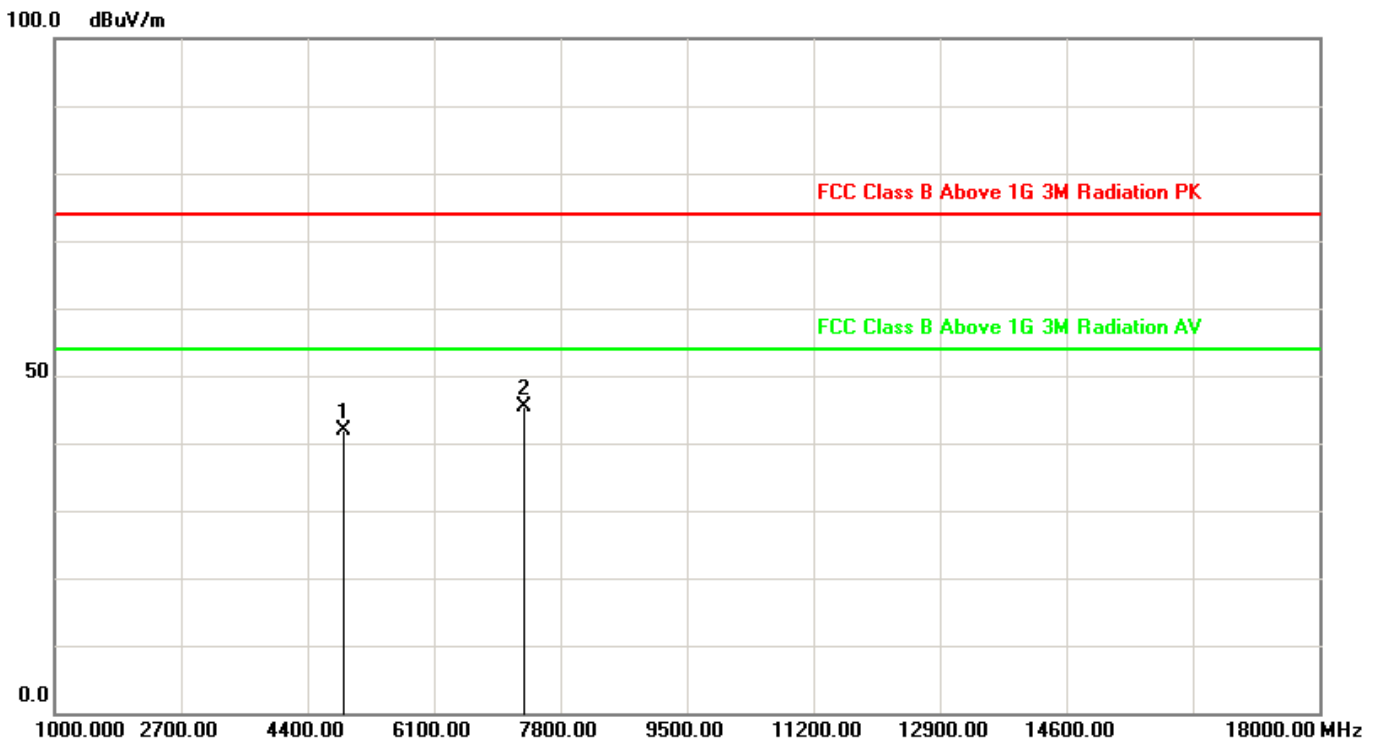
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	46.33	42.49	74.00	-31.51	peak
2	7323.000	0.82	45.27	46.09	74.00	-27.91	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:001	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2441MHz	



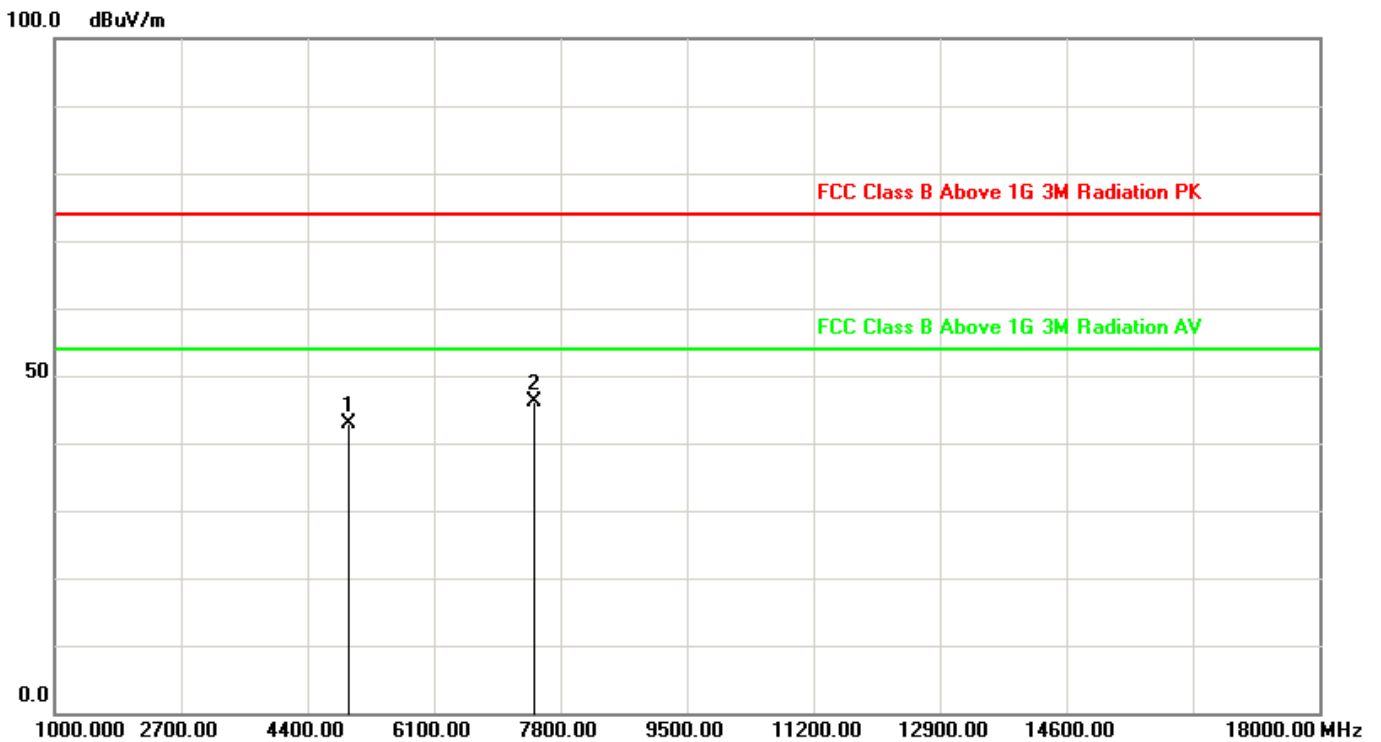
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	45.60	41.76	74.00	-32.24	peak
2	7323.000	0.82	44.59	45.41	74.00	-28.59	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:001	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2480MHz	



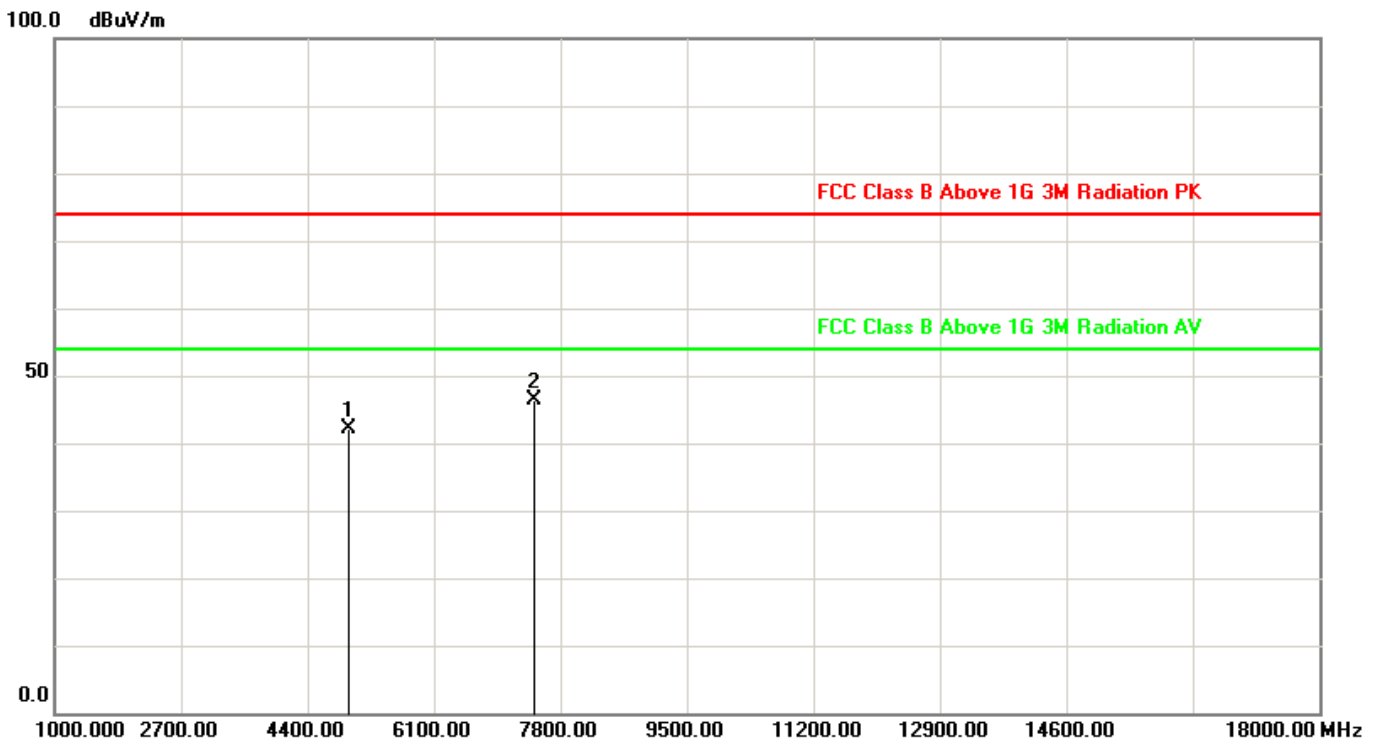
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	46.72	42.93	74.00	-31.07	peak
2	7440.000	1.10	45.11	46.21	74.00	-27.79	peak

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Engineer: Ternence	
Site: AC102	Time: 2016/08/26
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:001	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2480MHz	



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	46.03	42.24	74.00	-31.76	peak
2	7440.000	1.10	45.16	46.26	74.00	-27.74	peak

Note:

1. Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)
2. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)
3. There is the ambient noise within frequency range (9KHz~30MHz,18GHz~40GHz) .
4. The data above is worst case.
5. The average measurement was not performed when the peak measured data under the limit of average detection.
6. The emission levels of other frequencies are very lower than the limit and not show in test report.





## 6. 20dB Bandwidth Measurement

### 6.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

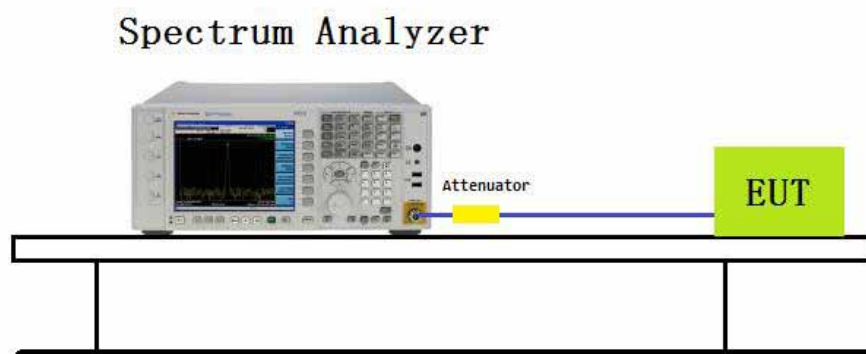
### 6.2 Test Standard

ANSI C63.10-2013 Section 6.9.2

### 6.3 Test Procedures

1. Set  $RBW \geq 1\%$  of the 20dB bandwidth
2.  $VBW \geq 3 \times RBW$
3. Span=Approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize
8. 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

### 6.4 Test Setup Layout

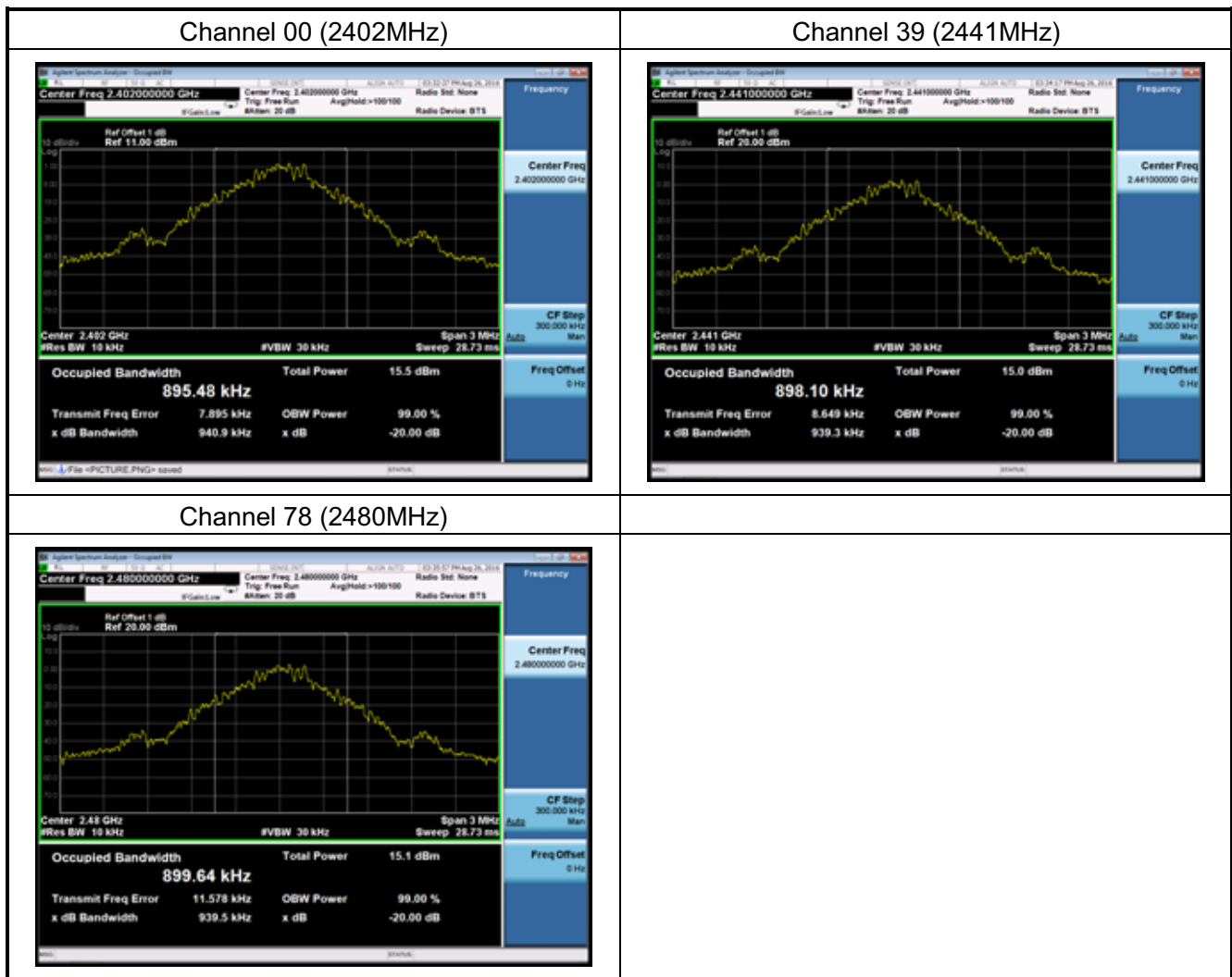




### 6.5 Test Result

Test Item	Occupied Bandwidth
Test Mode	Mode 1: Transmit by DH5

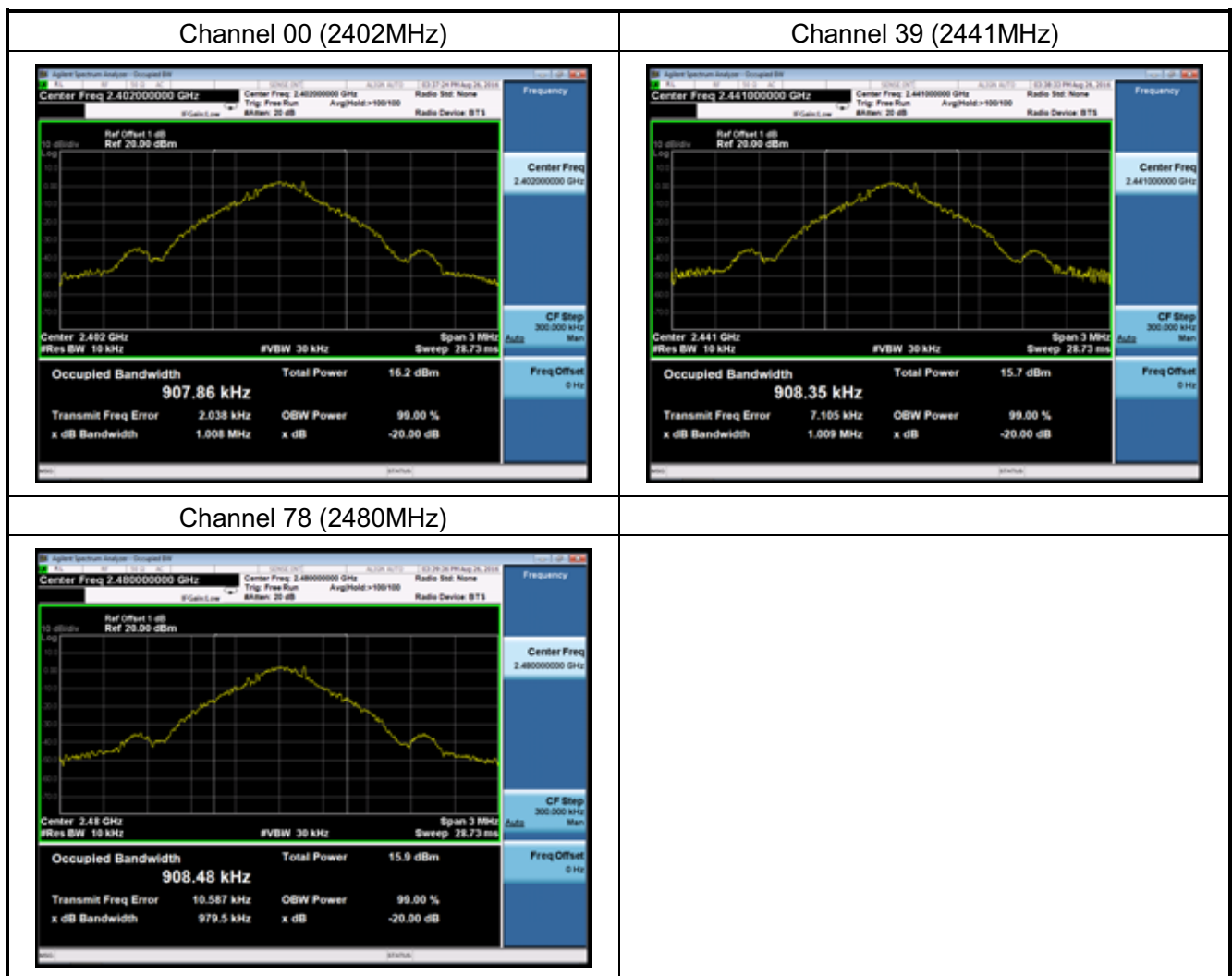
Channel No.	Frequency(MHz)	20dB Bandwidth(kHz)	99% Bandwidth(kHz)
00	2402	940.9	895.48
39	2441	939.3	898.10
78	2480	939.5	899.64





Test Item	Occupied Bandwidth
Test Mode	Mode 2: Transmit by 2DH5

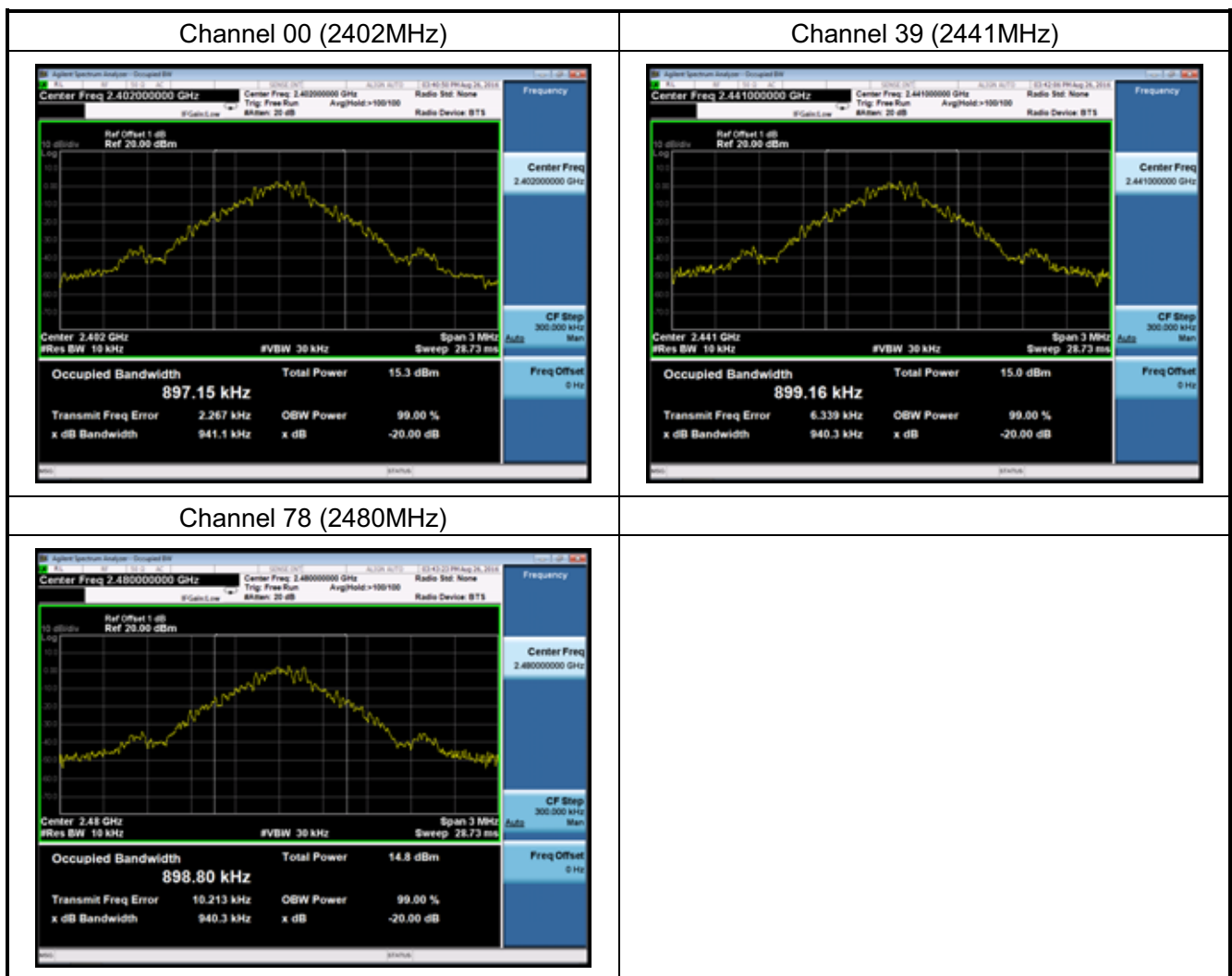
Channel No.	Frequency(MHz)	20dB Bandwidth(kHz)	99% Bandwidth(kHz)
00	2402	1008	907.86
39	2441	1009	908.35
78	2480	979.5	908.48





Test Item	Occupied Bandwidth
Test Mode	Mode 3: Transmit by 3DH5

Channel No.	Frequency(MHz)	20dB Bandwidth(kHz)	99% Bandwidth(kHz)
00	2402	941.1	897.15
39	2441	940.3	899.16
78	2480	940.3	898.80





## 7. Channel Carrier Frequencies Separation Measurement

### 7.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

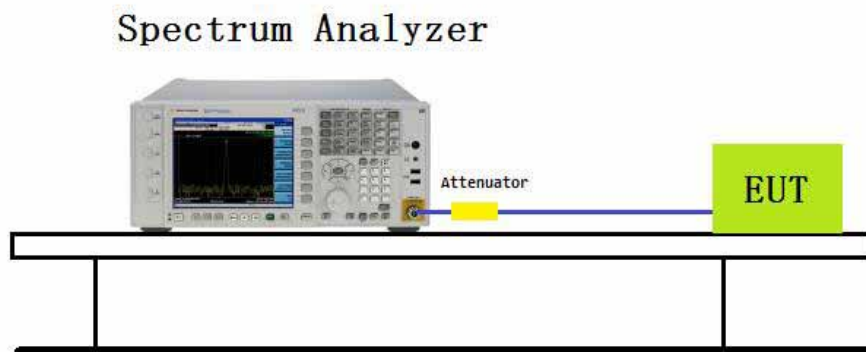
### 7.2 Test Standard

ANSI C63.10-2013 Section 7.8.2

### 7.3 Test Procedures

1. RBW approximately 30% of the channel spacing
2. VBW $\geq$ RBW
3. Span=Wide enough to capture the peaks of two adjacent channels
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize

### 7.4 Test Setup Layout

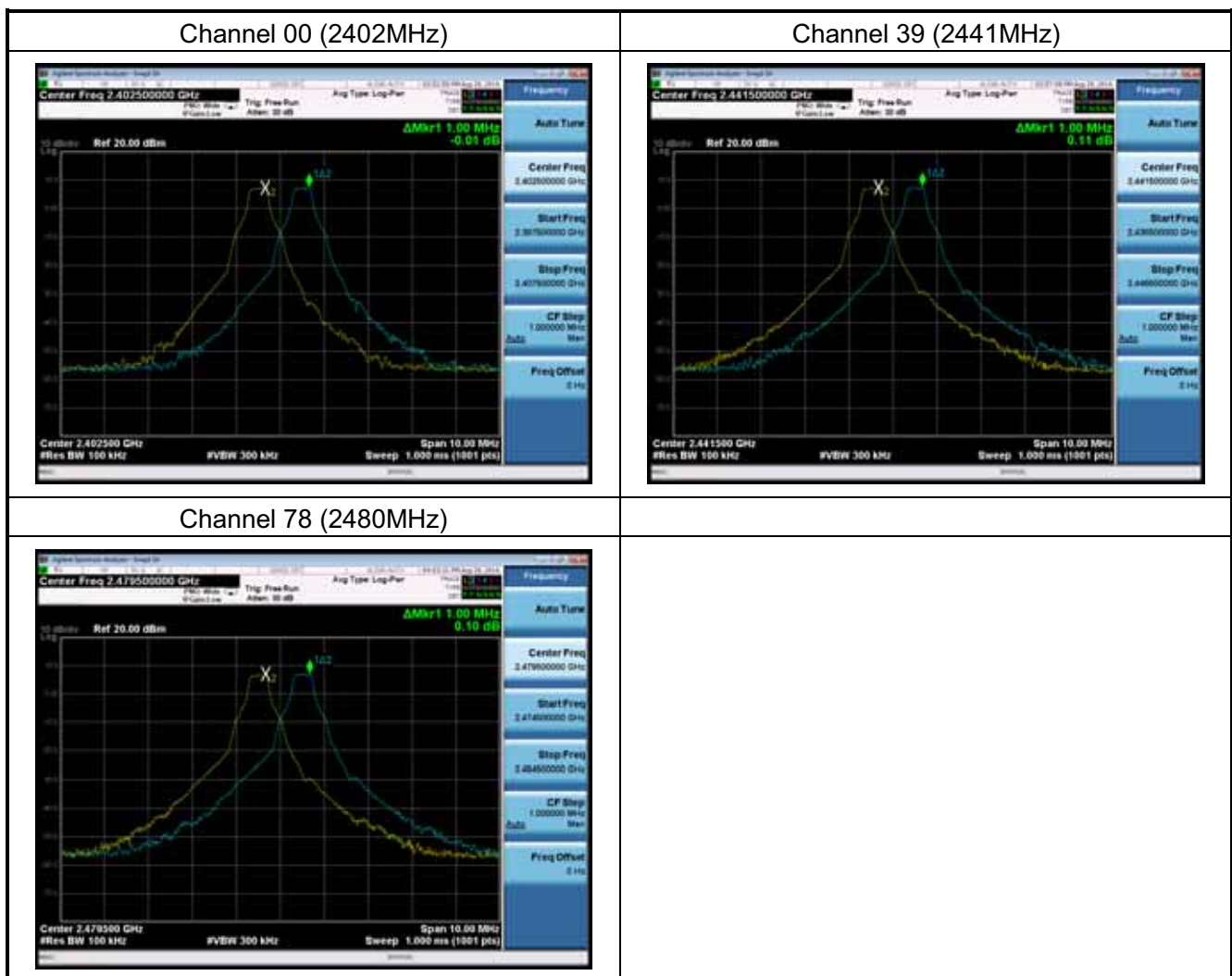




### 7.5 Test Result

Test Item	:	Channel Carrier Frequency Separation
Test Mode	:	Mode 1: Transmit by DH5

Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
00	2402	1000	>25 kHz or 2/3 of 20 dB BW	Pass
39	2441	1000	>25 kHz or 2/3 of 20 dB BW	Pass
78	2480	1000	>25 kHz or 2/3 of 20 dB BW	Pass

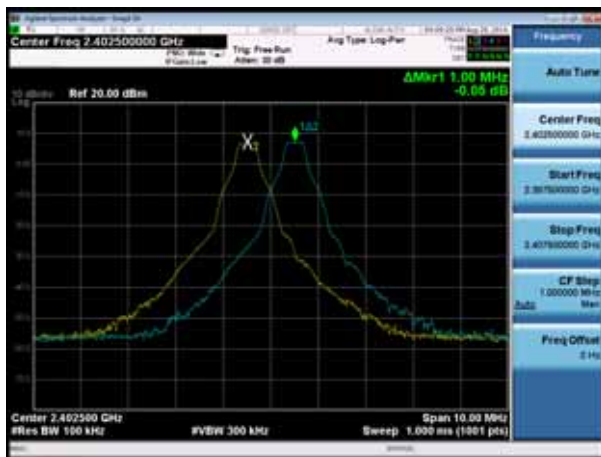




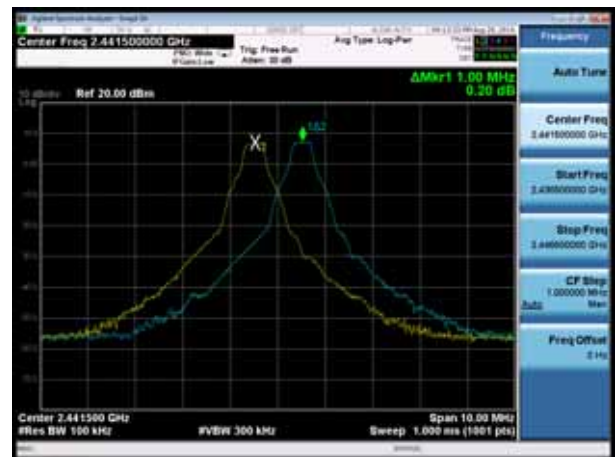
Test Item	:	Carrier Frequency Separation
Test Mode	:	Mode 2: Transmit by 2DH5

Channel No.	Frequency (MHz)	Carrier Frequency Separation(kHz)	Limit (kHz)	Result
00	2402	1000	>25 kHz or 2/3 of 20 dB BW	Pass
39	2441	1000	>25 kHz or 2/3 of 20 dB BW	Pass
78	2480	1000	>25 kHz or 2/3 of 20 dB BW	Pass

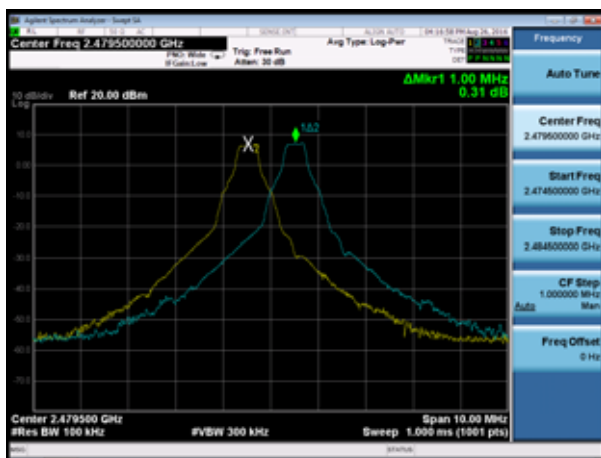
Channel 00 (2402MHz)



Channel 39 (2441MHz)



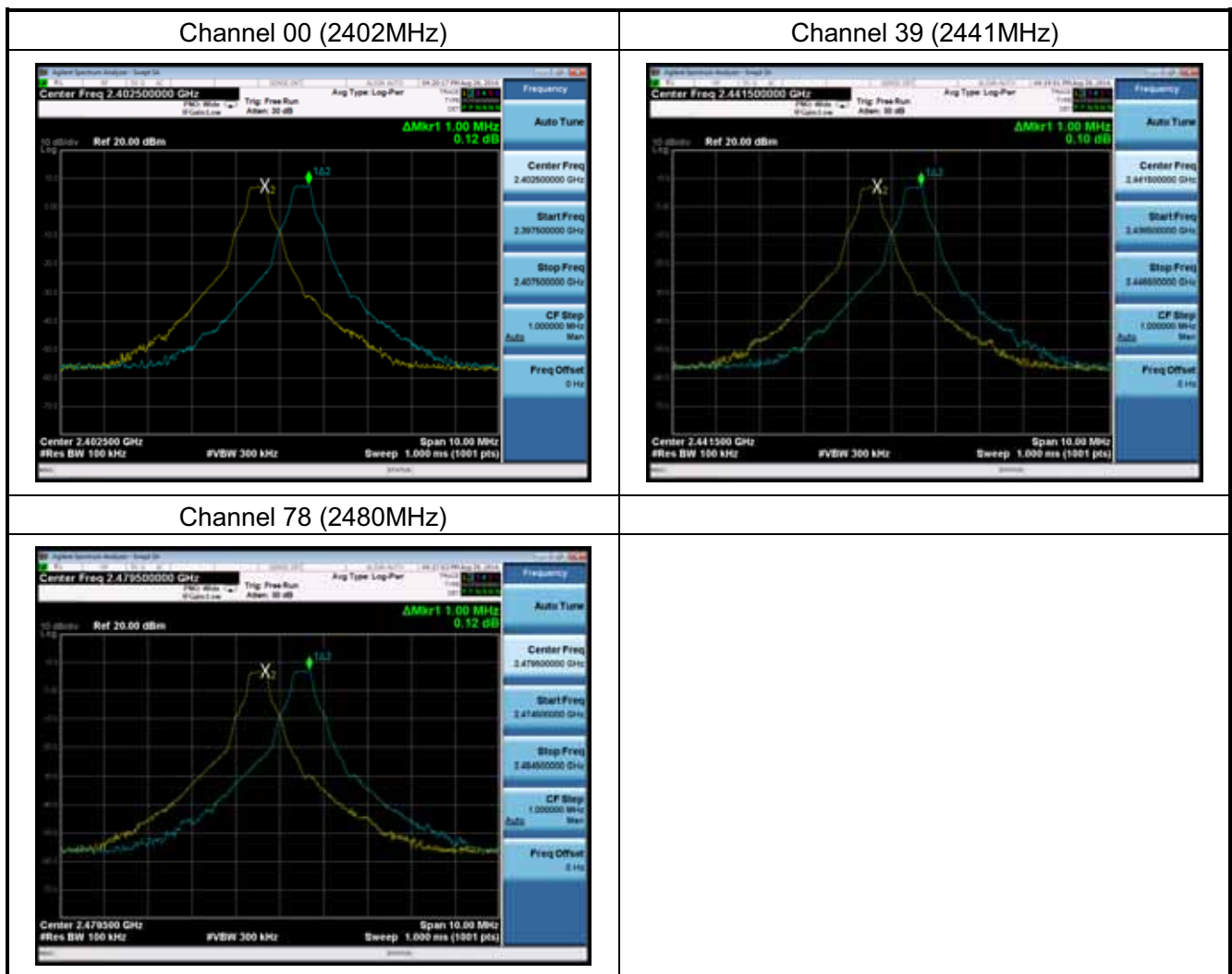
Channel 78 (2480MHz)





Test Item	:	Carrier Frequency Separation
Test Mode	:	Mode 2: Transmit by 3DH5

Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
00	2402	1000	>25 kHz or 2/3 of 20 dB BW	Pass
39	2441	1000	>25 kHz or 2/3 of 20 dB BW	Pass
78	2480	1000	>25 kHz or 2/3 of 20 dB BW	Pass







## 8. Dwell Time Measurement

### 8.1 Test Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

### 8.2 Test Standard

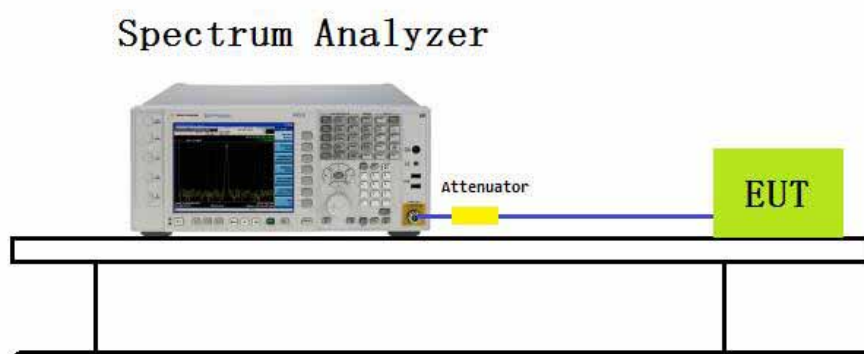
ANSI C63.10-2013- Section 7.8.4

### 8.3 Test Procedures

1. RBW=1MHz
2. VBW $\geq$ RBW
3. Span=Zero span, centered on a hopping channel
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=As necessary to capture the entire dwell time per hopping channel

If possible, use the marker-delta function to determine the dwell time. If this value varies with different modes of operation(data rate, modulation format, etc.),repeat this test for each variation. An oscilloscope may be used instead of a spectrum analyzer. The EUT shall show compliance with the appropriate regulatory limit for the number of hopping channels. A plot of the data shall be included in the test report.

### 8.4 Test Setup Layout





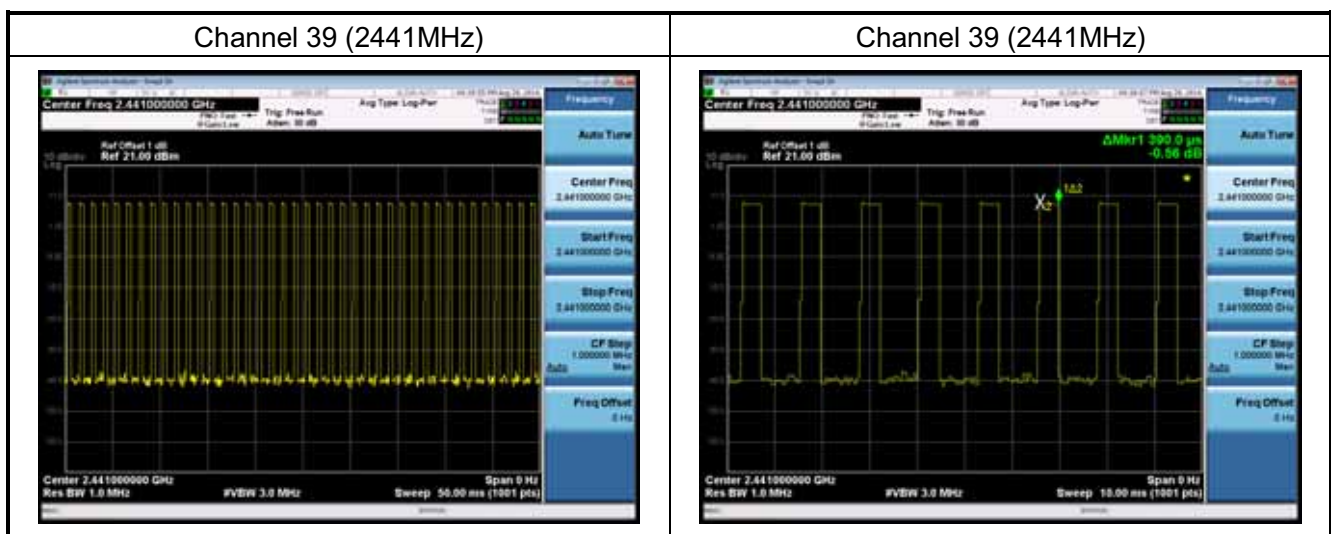
### 8.5 Test Result

Test Item	:	Time of Occupancy (Dwell Time)
Test Mode	:	Transmit by 2DH1

Channel No.	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
39	2441	124.8	< 400	Pass

Test Time Period: 0.4\*79=31.6sec, Hopping Times Within 1sec: 40/50msec = 800 hops/sec.

2441MHz, The Maximum Occupancy Time Within 31.6sec: [(0.39ms\*800)/79]\*31.6 =124.8msec





Test Item	:	Time of Occupancy (Dwell Time)
Test Mode	:	Transmit by 2DH3

Channel No.	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
39	2441	270.4	< 400	Pass

Test Time Period:  $0.4 \times 79 = 31.6\text{sec}$ , Hopping Times Within 1sec:  $20/50\text{msec} = 400\text{hops/sec}$ .

2441MHz, The Maximum Occupancy Time Within 31.6sec:  $[(1.69\text{ms} \times 400) / 79] \times 31.6 = 270.4\text{msec}$



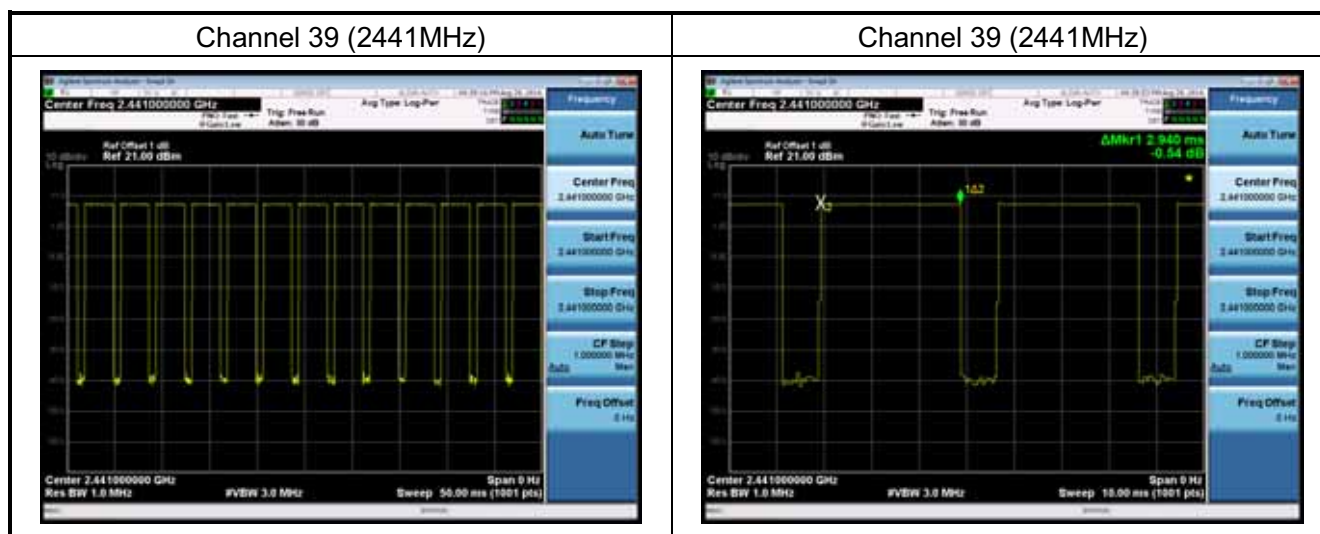


Test Item	:	Time of Occupancy (Dwell Time)
Test Mode	:	Transmit by 2DH5

Channel No.	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
39	2441	317.5	< 400	Pass

Test Time Period:  $0.4 \times 79 = 31.6\text{sec}$ , Hopping Times Within 1sec:  $13.5/50\text{msec} = 270$  hops/sec.

2441MHz, The Maximum Occupancy Time Within 31.6sec:  $[(2.94\text{ms} \times 270) / 79] \times 31.6 = 317.5\text{msec}$





## 9. Number of Hopping Channels Measurement

### 9.1 Test Limit

Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels.

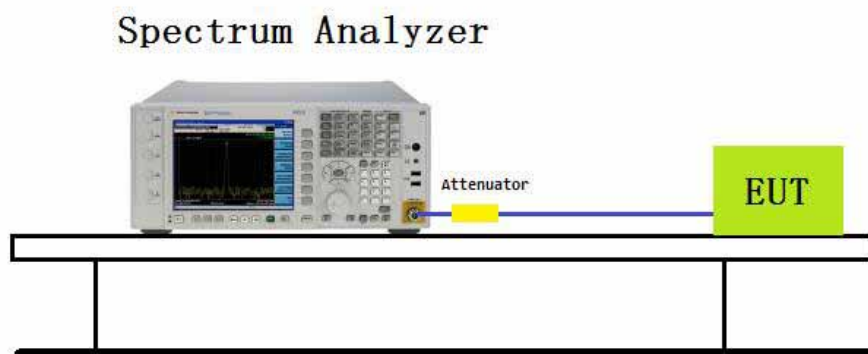
### 9.2 Test Standard

ANSI C63.10-2013- Section 7.8.3

### 9.3 Test Procedures

1.  $RBW \leq 30\%$  of the channel spacing or the 20dB bandwidth
2.  $VBW \geq RBW$
3. Span=The frequency band of operation
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize

### 9.4 Test Setup Layout



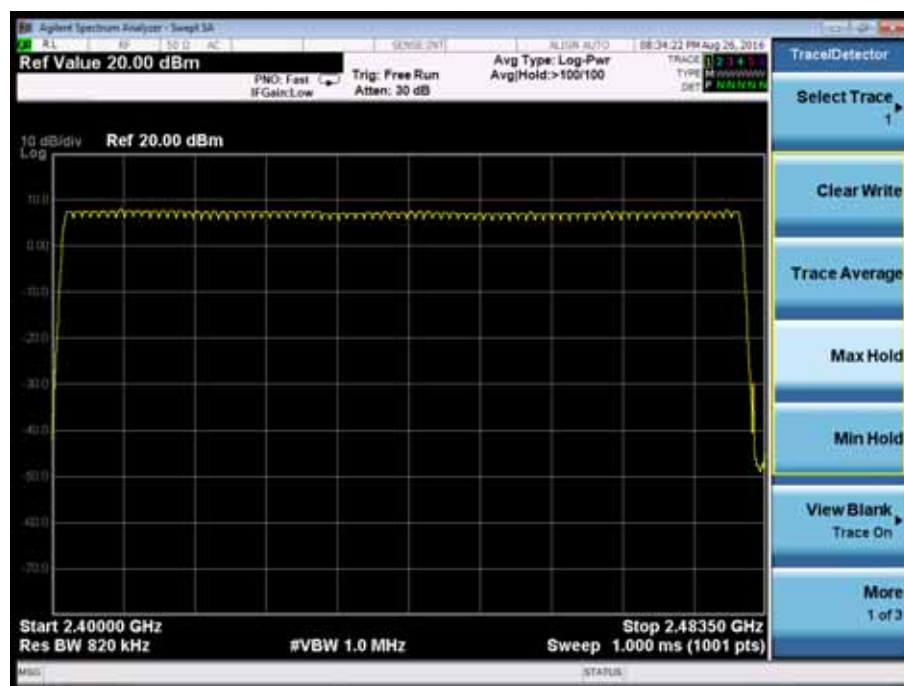


### 9.5 Test Result

Test Item	:	Number of Hopping Frequencies
Test Mode	:	Mode 1: Transmit by DH5

Frequency Band (MHz)	Number of Hopping Frequencies	Limit	Result
2400 - 2483.5	79	>15	Pass

#### 2402 - 2480 MHz

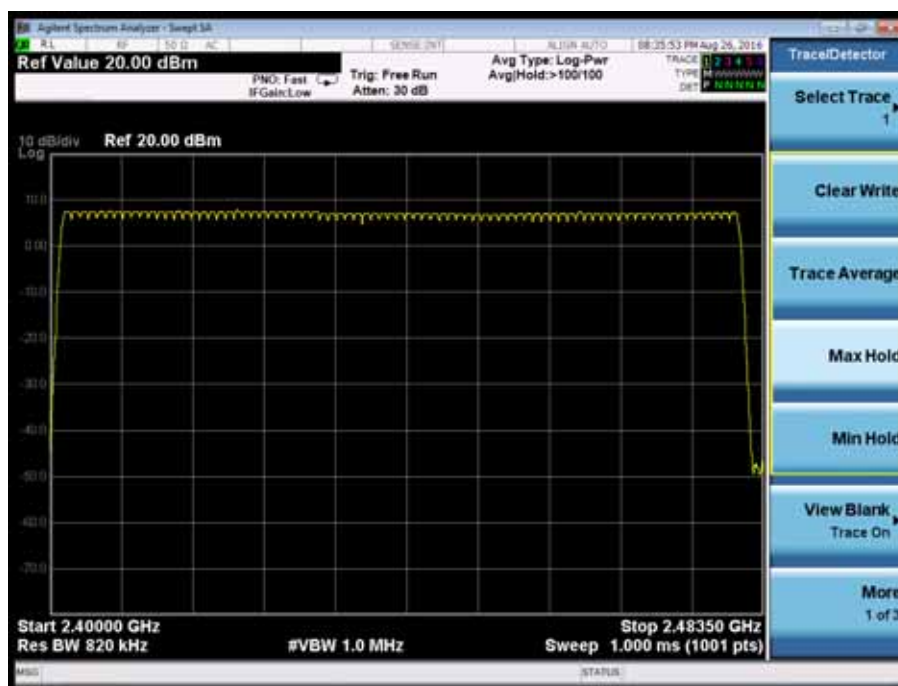




Test Item	:	Number of Hopping Frequencies
Test Mode	:	Mode 2: Transmit by 2DH5

Frequency Band (MHz)	Number of Hopping Frequencies	Limit	Result
2400 - 2483.5	79	>15	Pass

2402 - 2480 MHz

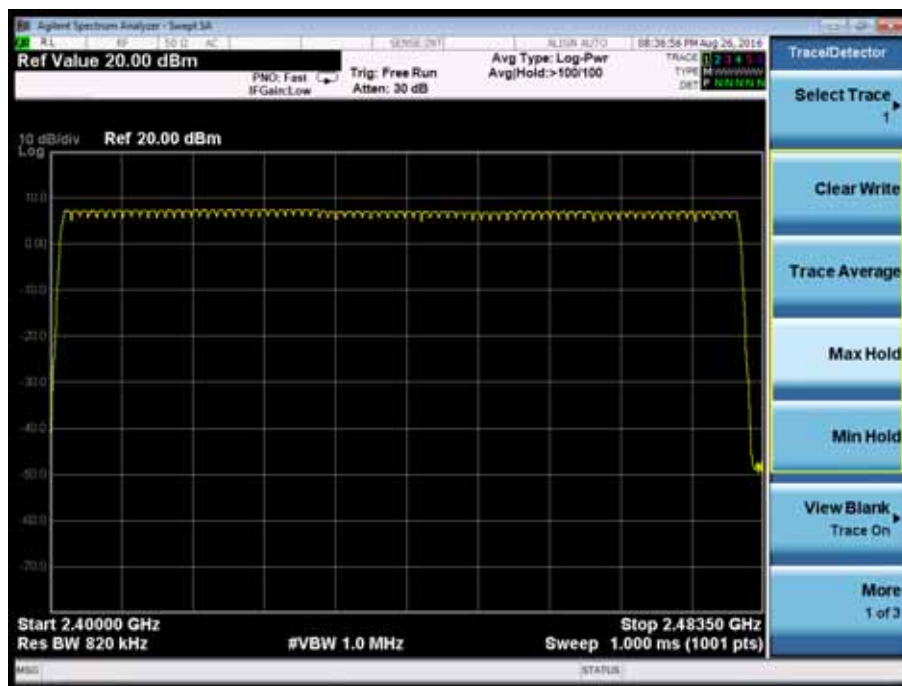




Test Item	:	Number of Hopping Frequencies
Test Mode	:	Mode 3: Transmit by 3DH5

Frequency Band (MHz)	Number of Hopping Frequencies	Limit	Result
2400 - 2483.5	79	>15	Pass

2402 - 2480 MHz







## 10. Peak Output Power Measurement

### 10.1 Test Limit

The Maximum Peak Output Power Measurement is 125mW (20.97dBm).

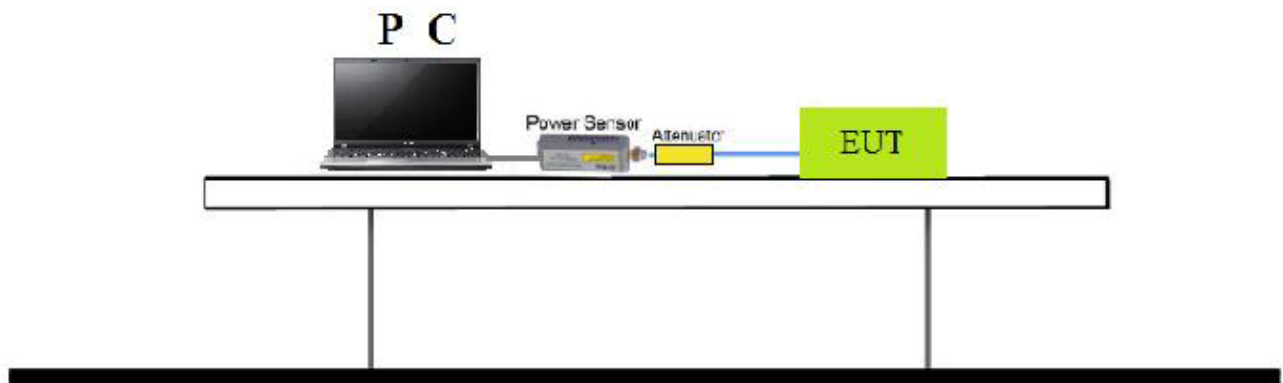
### 10.2 Test Standard

FCC CFR Title 47 Part 15 Subpart C: 2014-Section 15.247(a)(1)

### 10.3 Test Procedures

ANSI C63.10-2013- Section 7.8.5

### 10.4 Test Setup Layout





## 10.5 Test Result

Test Item	:	Peak Output Power
Test Mode	:	Mode 1: Transmit by DH5

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
0	2402	7.51	20.97	Pass
39	2441	7.82	20.97	Pass
78	2480	8.62	20.97	Pass

Test Item	:	Peak Output Power
Test Mode	:	Mode 2: Transmit by 2DH5

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
0	2402	8.71	20.97	Pass
39	2441	8.87	20.97	Pass
78	2480	8.38	20.97	Pass

Test Item	:	Peak Output Power
Test Mode	:	Mode 3: Transmit by 3DH5

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
0	2402	8.74	20.97	Pass
39	2441	8.67	20.97	Pass
78	2480	8.47	20.97	Pass



## 11. Band-edge Compliance & Conducted Spurious Emissions Measurement

### 11.1 Test Limit

digitally mod intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or ulated below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) of FCC part 15 is not required.

### 11.2 Test Standard

Band-edge Compliance:

ANSI C63.10-2013 Section 7.8.6

Conducted Spurious Emissions:

ANSI C63.10-2013 Section 7.8.8



### 11.3 Test Procedures

#### Band-edge Compliance:

1. RBW $\geq$ 1% of spectrum analyzer display span
2. VBW $\geq$ RBW
3. Span= Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize

Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission.

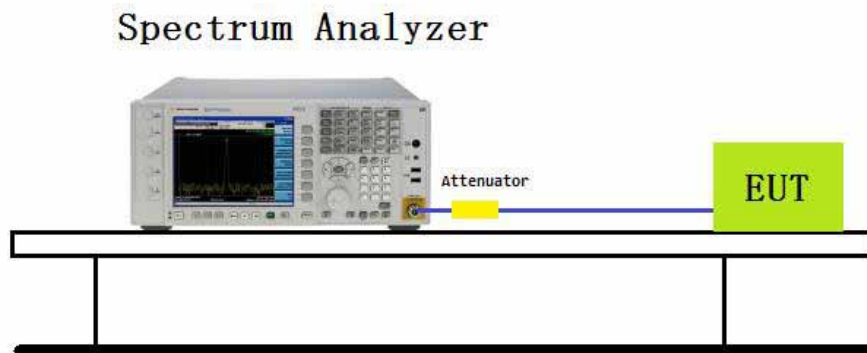
#### Conducted Spurious Emissions:

1. RBW=100kHz
2. VBW=300kHz
3. Span= Wide enough to capture the peak level of the in-band emission all spurious emissions(e.g., harmonics) from the lowest frequency generated in the EUT up through the 10<sup>th</sup> harmonic. Typically, several plots are required to cover this entire span
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize

Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.



### 11.4 Test Setup Layout

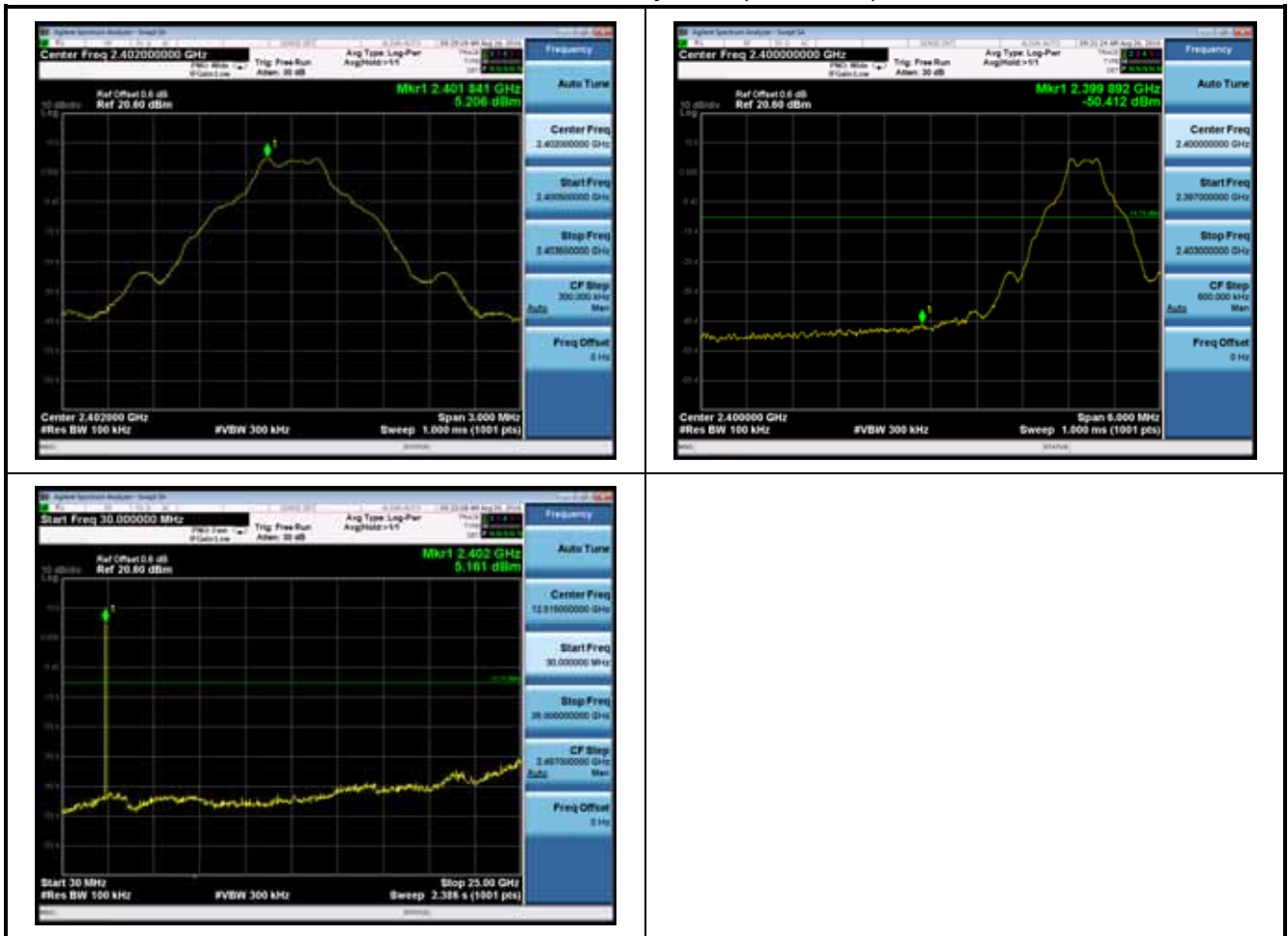




### 11.5 Test Result

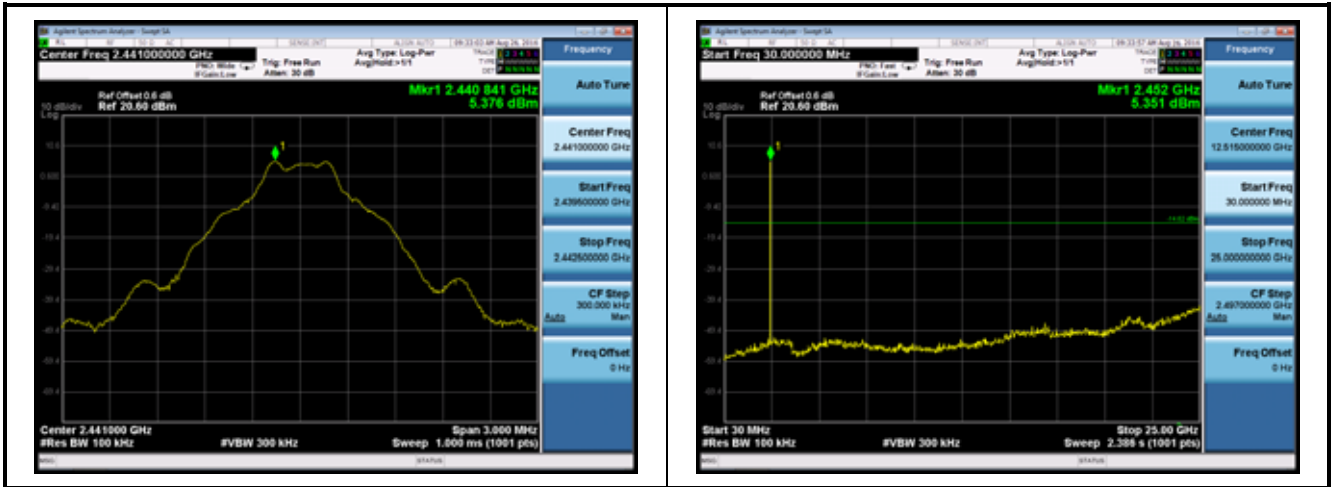
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 1: Transmit by DH5

Mode 1: Transmit by DH5 (2402MHz)

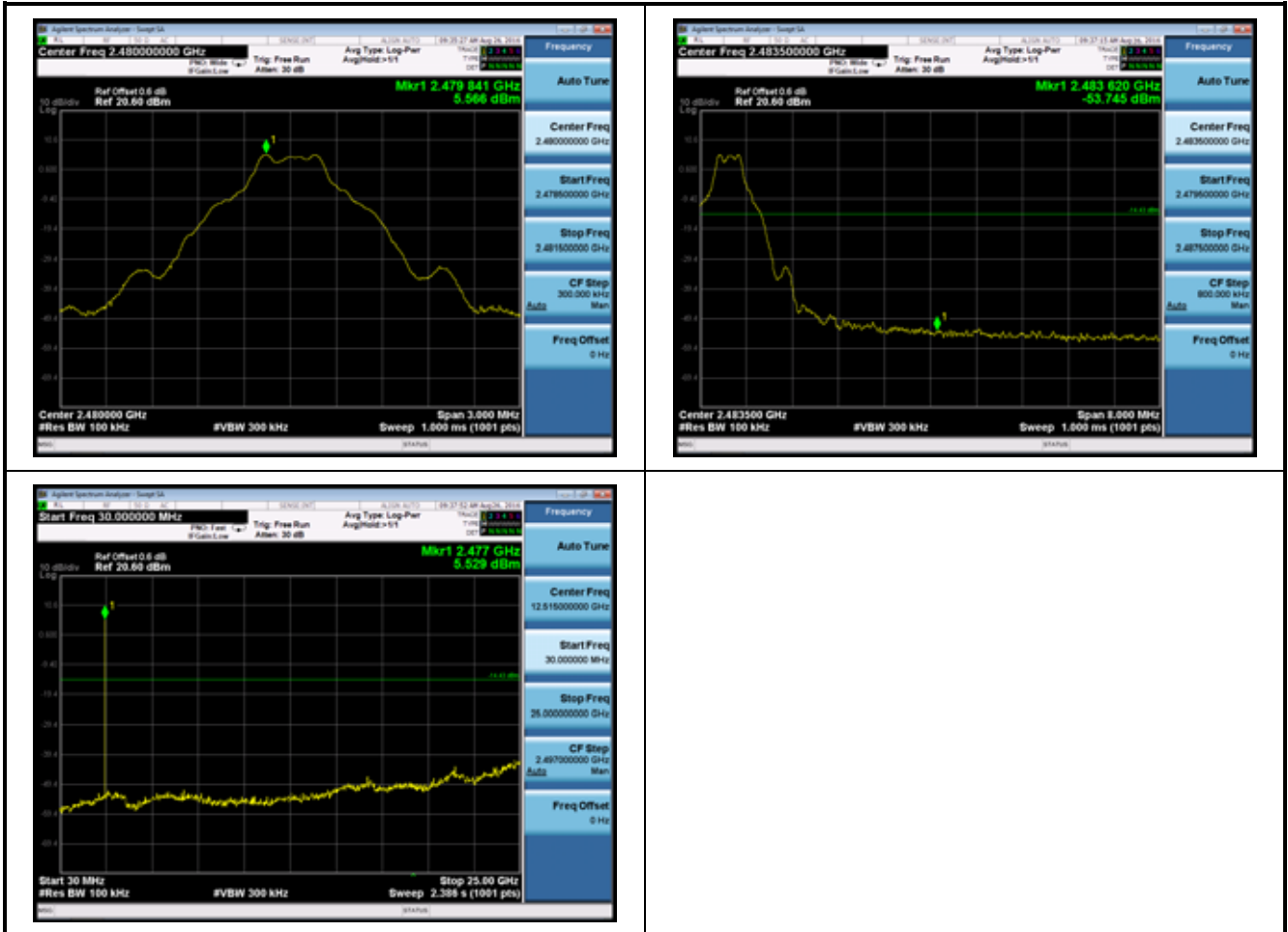




Mode 1: Transmit by DH5 (2441MHz)



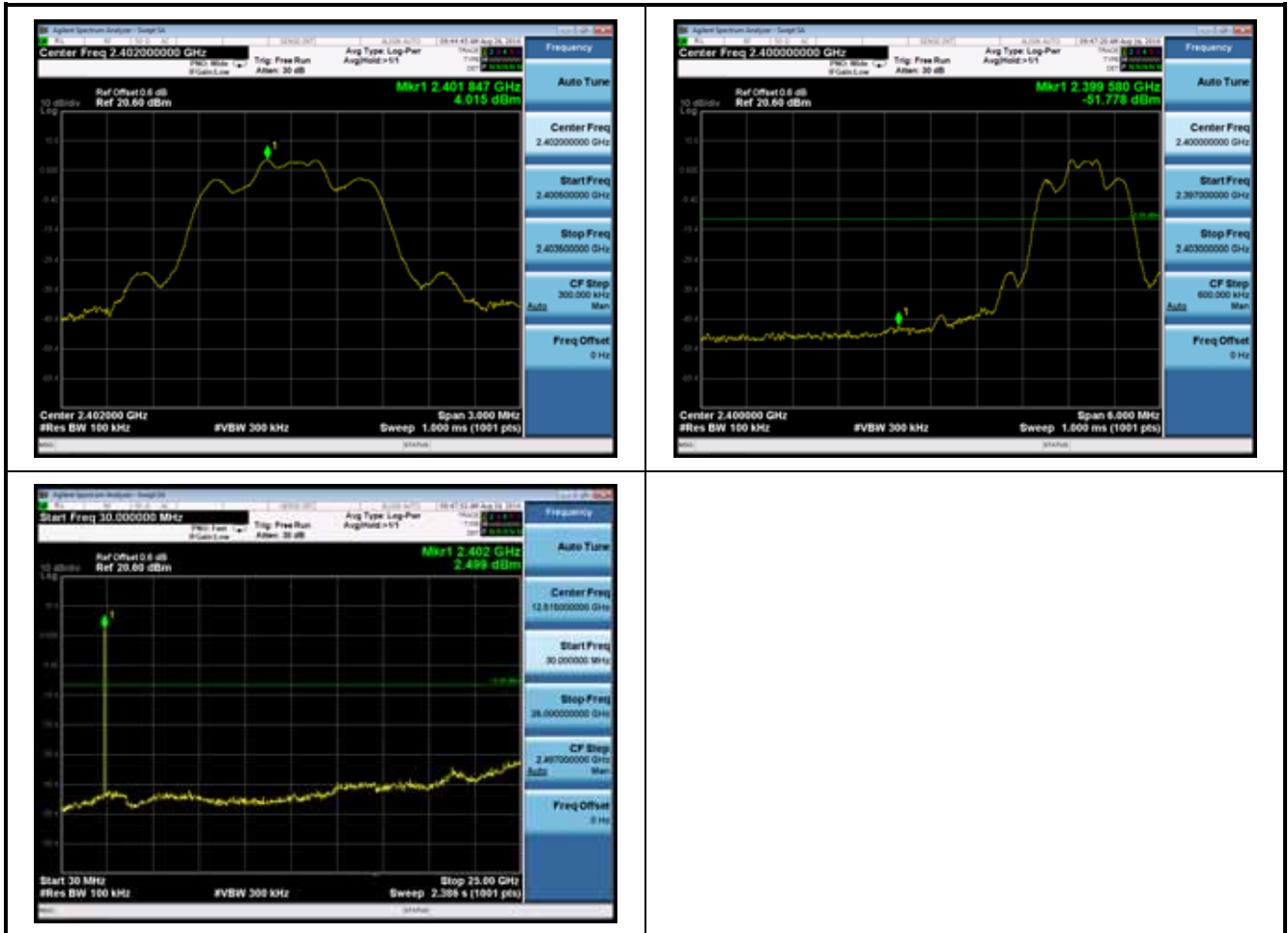
Mode 1: Transmit by DH5 (2480MHz)





Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 2: Transmit by 2DH5

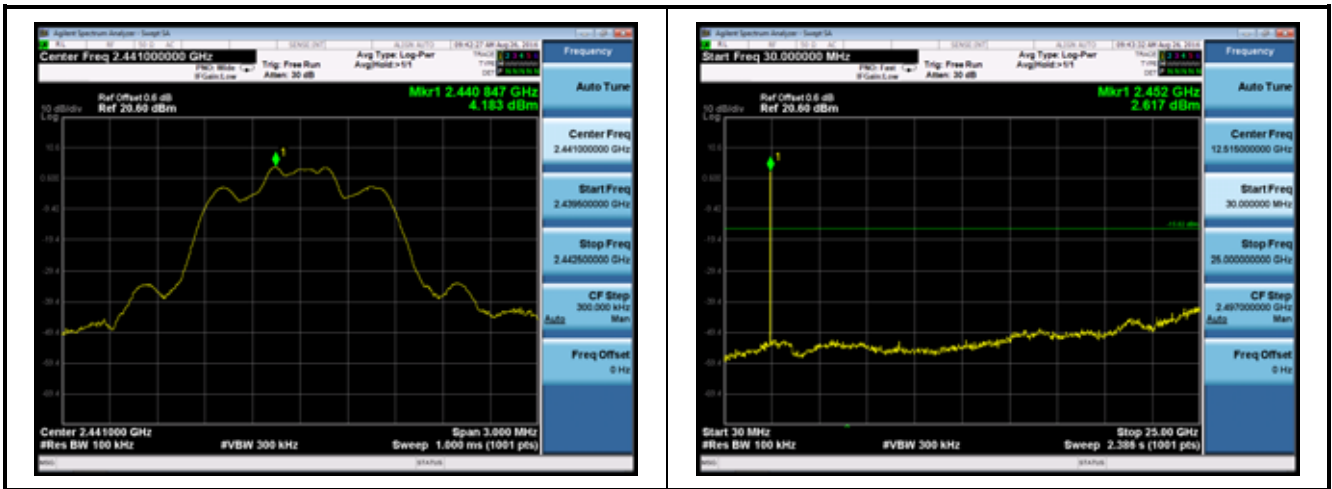
Mode 2: Transmit by 2DH5 (2402MHz)



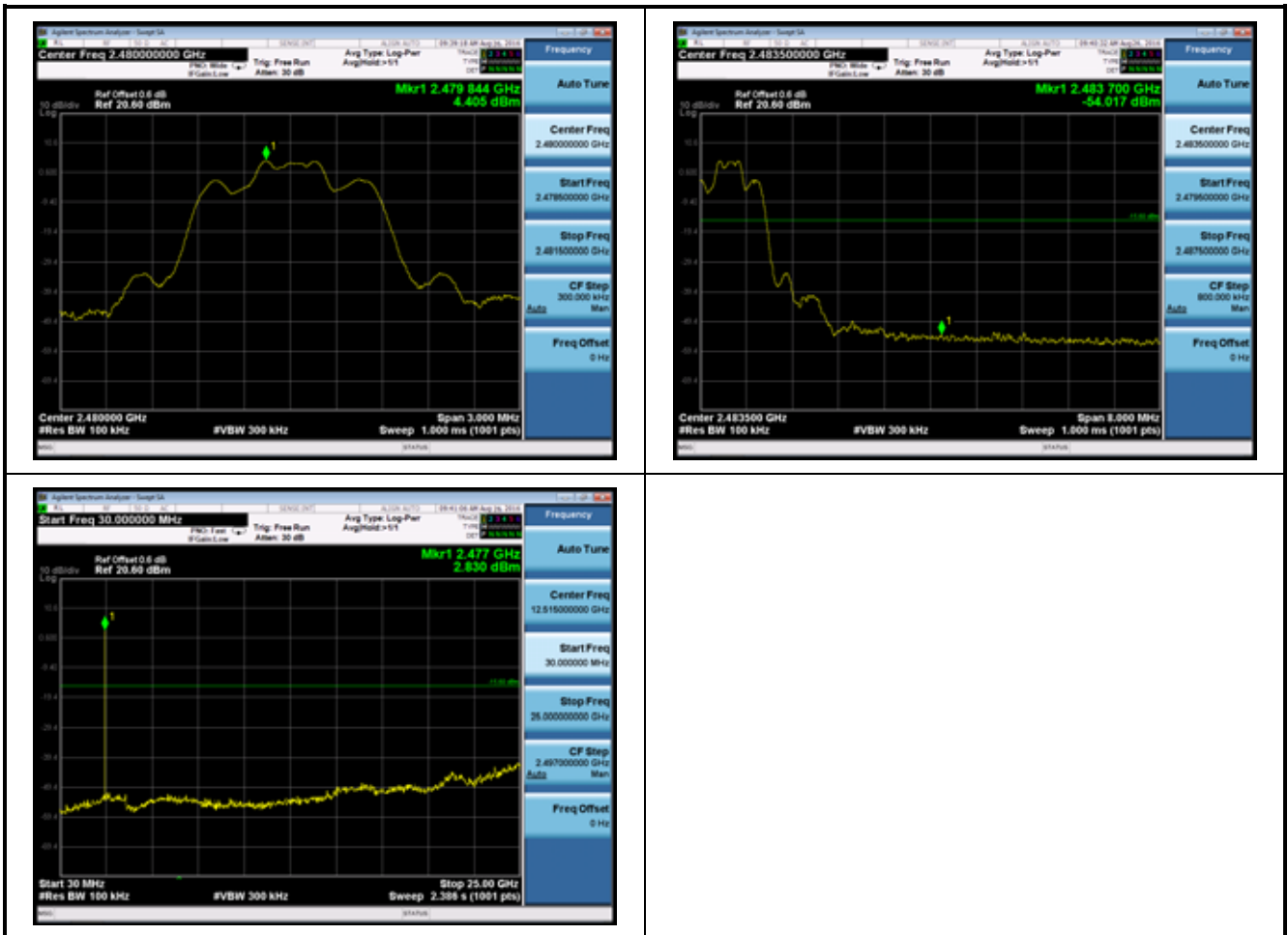




Mode 2: Transmit by 2DH5 (2441MHz)



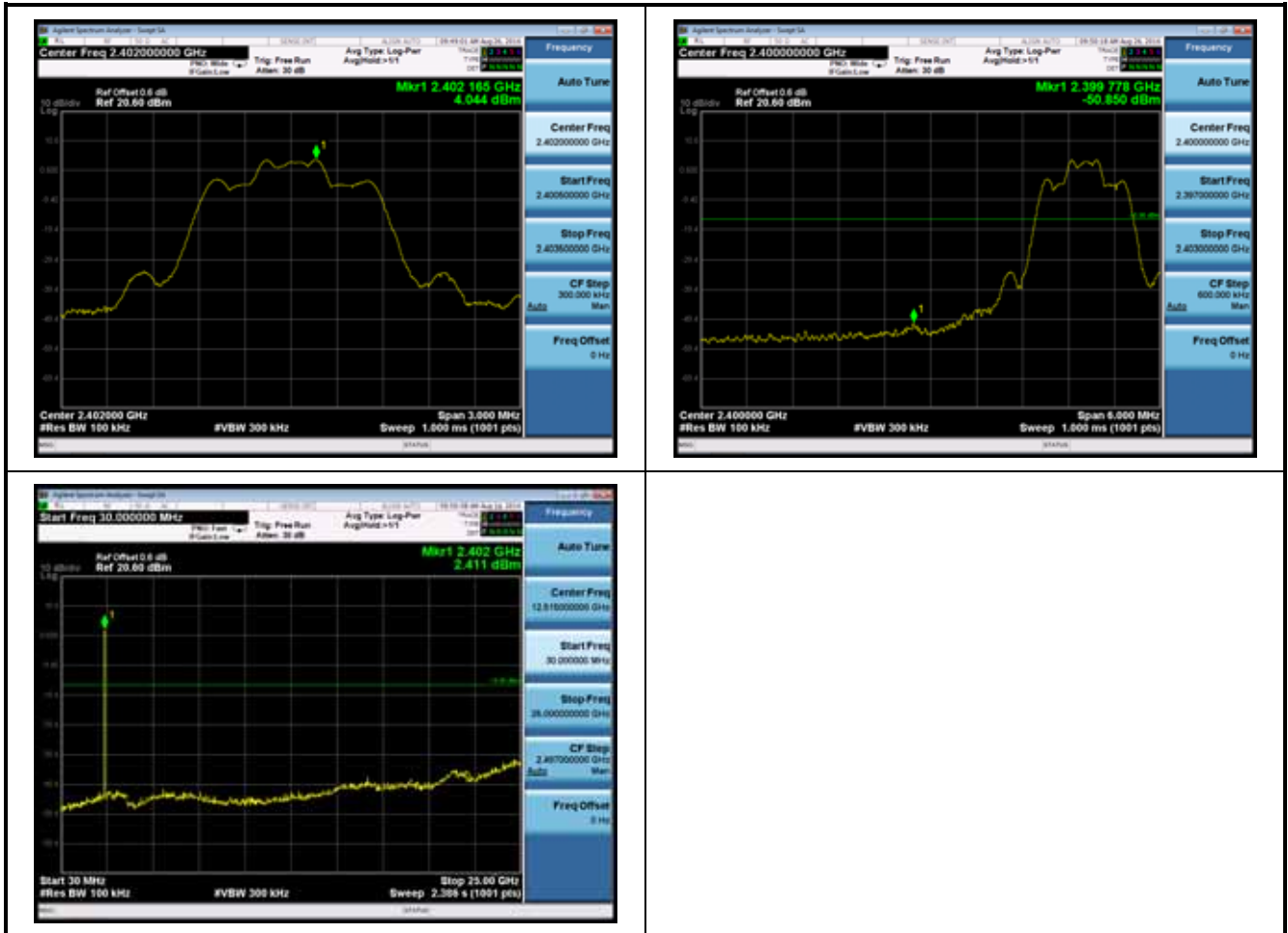
Mode 2: Transmit by 2DH5 (2480MHz)





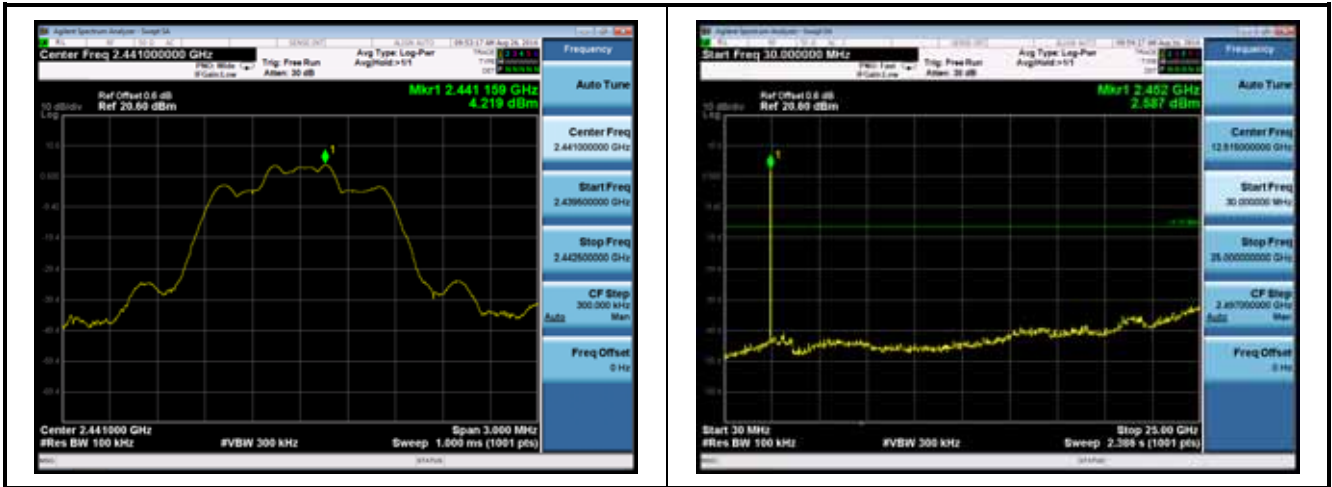
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 3: Transmit by 3DH5

Mode 3: Transmit by 3DH5 (2402MHz)





Mode 3: Transmit by 3DH5 (2441MHz)



Mode 3: Transmit by 3DH5 (2480MHz)





## 12. Radiated Emission Band Edge Measurement

### 12.1 Test Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) of FCC part 15.

### 12.2 Test Standard

ANSI C63.10-2013 Section 6.10.5

### 12.3 Test Procedure

Peak Field Strength Measurements:

Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

7. RBW=As specified in Table 1
8. VBW=3×RBW
9. Detector=Peak
10. Trace mode=Max hold
11. Sweep time=Auto couple
12. Allow the trace to stabilize

Table 1-RBW as a function of frequency

Frequency	RBW
9 ~ 150kHz	200 ~ 300Hz
0.15 ~ 30MHz	9 ~ 10kHz
30 ~ 1000MHz	100 ~ 120kHz
> 1000MHz	1MHz



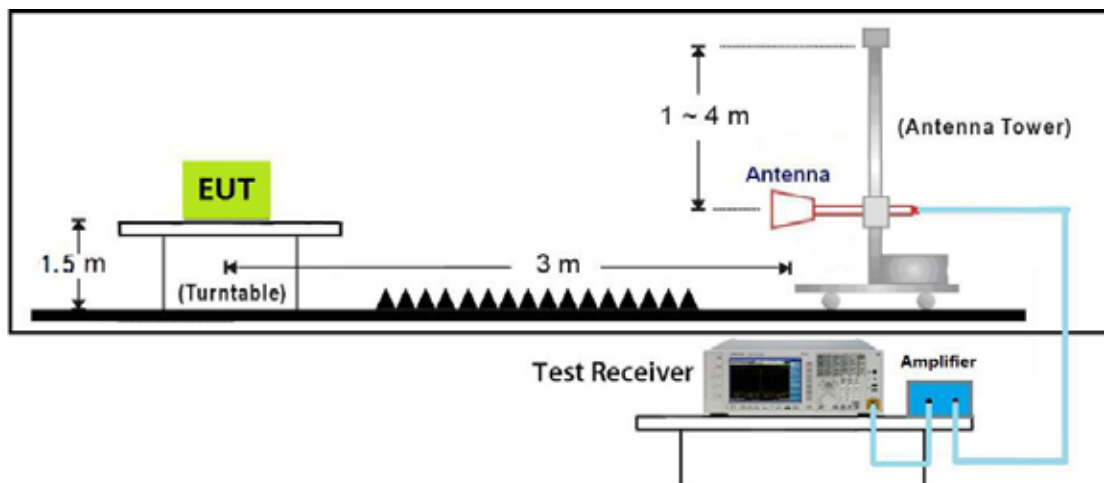
#### AVE Field Strength Measurements:

Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

7. RBW= 1MHz
8. VBW $\geq$ 1/T
9. Detector=Peak
10. Trace mode=Max hold
11. Sweep time=Auto couple
12. Allow max hold to run for at least 50 times(1/duty cycle) trace

Do as an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode

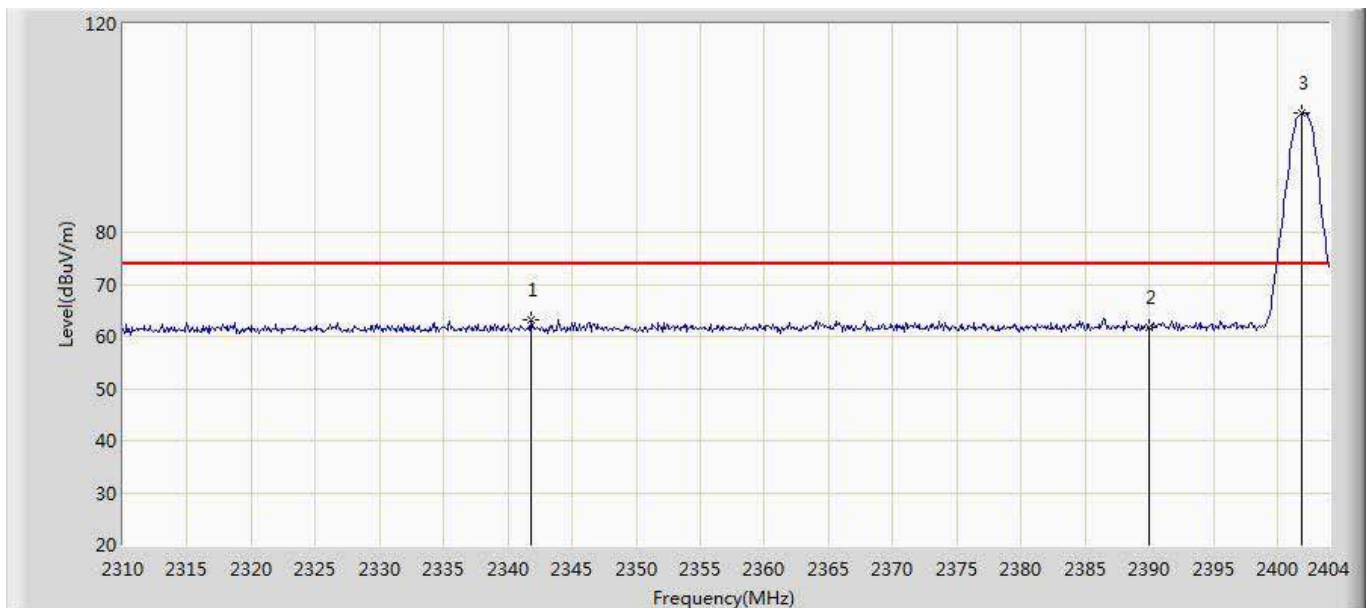
#### 12.4 Test Setup Layout





### 12.5 Test Result

Site: AC102	Time: 2016/08/27 - 17:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2402MHz	



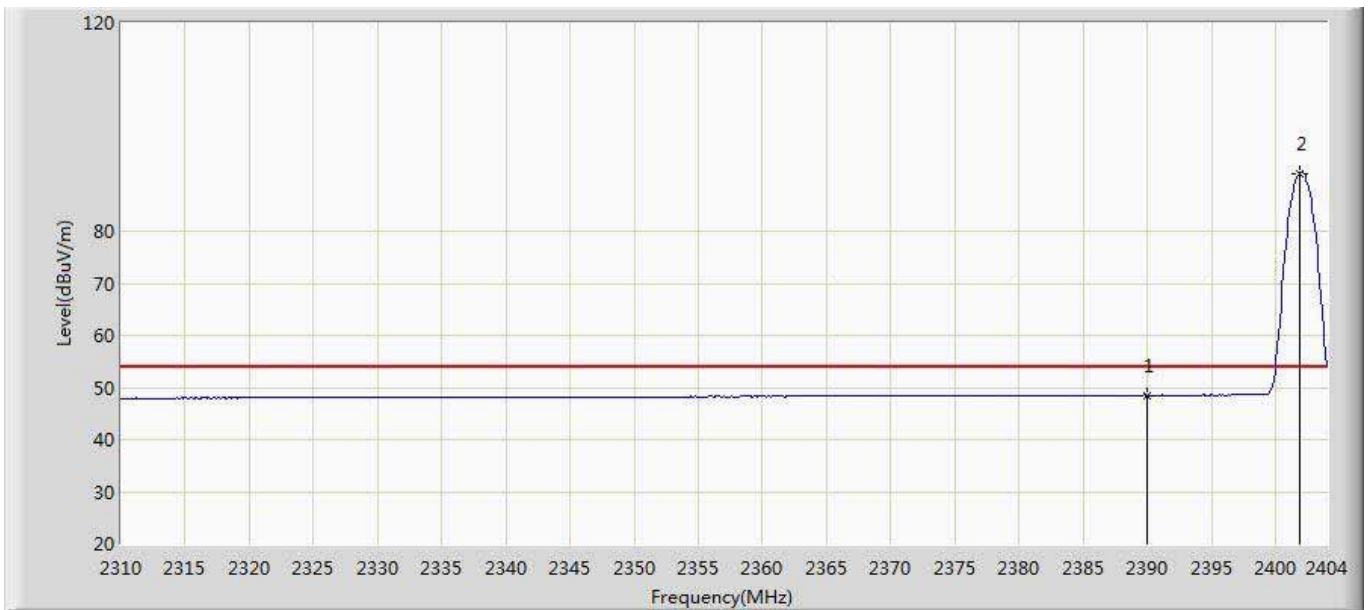
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2341.772	63.328	30.414	-10.672	74.000	32.915	PK
2		2390.000	61.698	28.587	-12.302	74.000	33.111	PK
3	*	2401.838	102.787	69.627	N/A	N/A	33.160	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 17:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2402MHz	



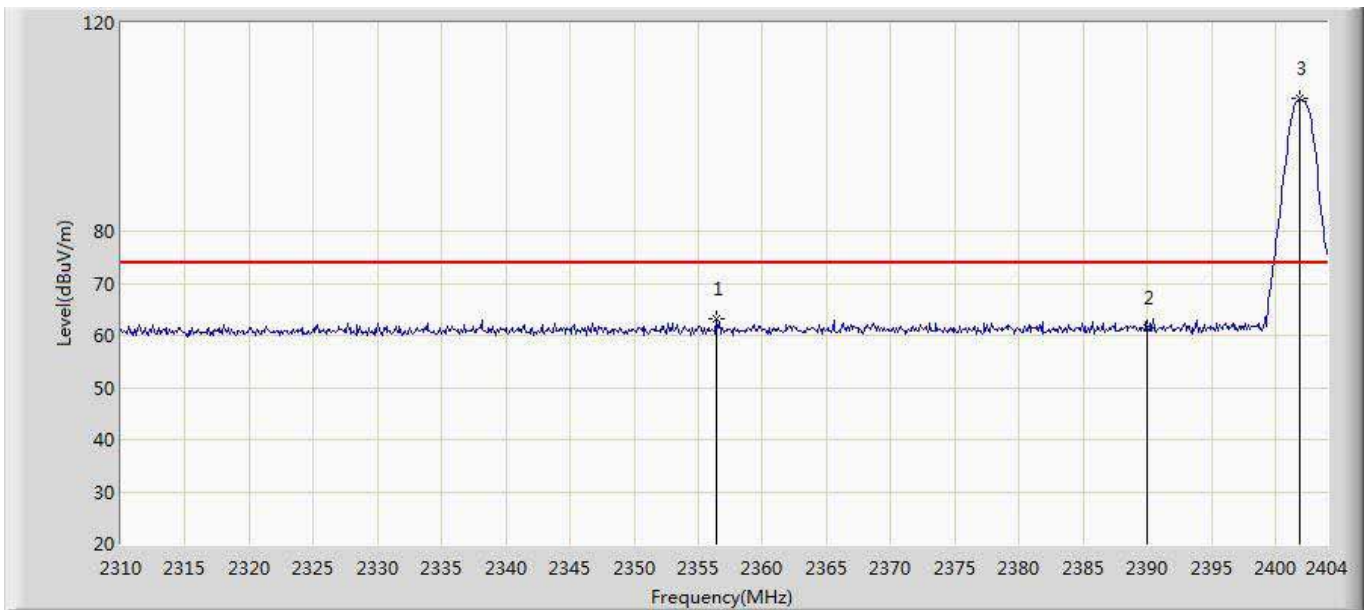
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.525	15.414	-5.475	54.000	33.111	AV
2	*	2401.838	91.102	57.942	N/A	N/A	33.160	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 17:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2402MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2356.436	63.204	30.230	-10.796	74.000	32.974	PK
2		2390.000	61.345	28.234	-12.655	74.000	33.111	PK
3	*	2401.932	105.368	72.208	N/A	N/A	33.160	PK

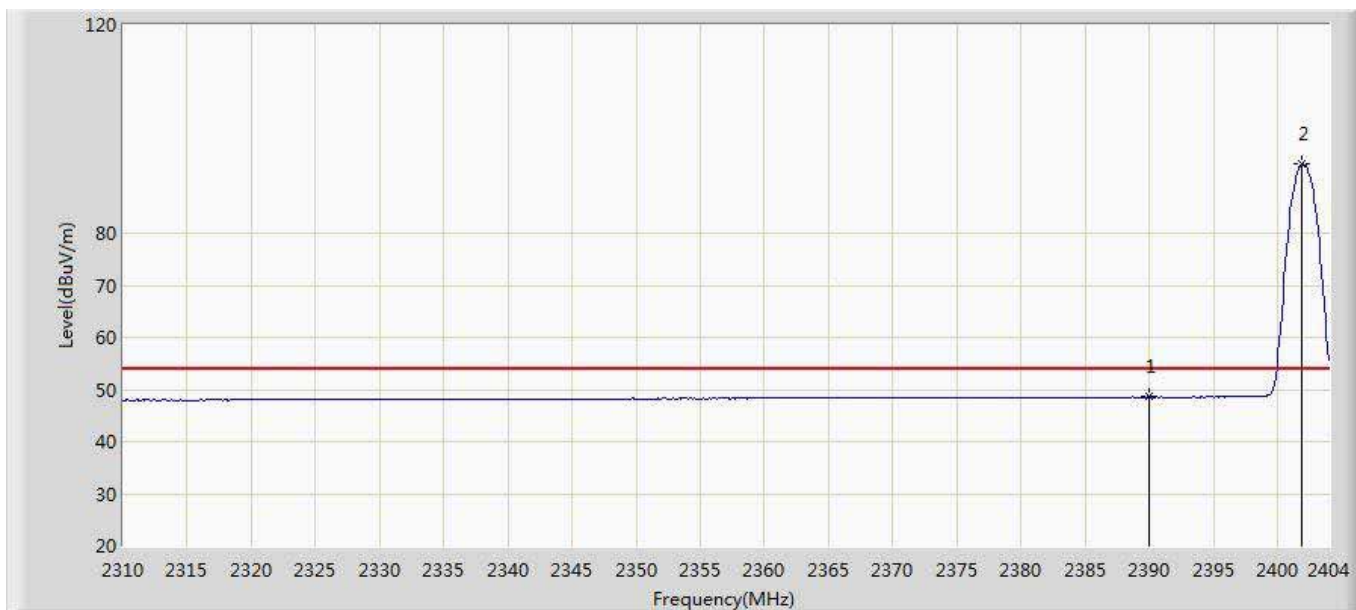
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).





Site: AC102	Time: 2016/08/27 - 17:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2402MHz	



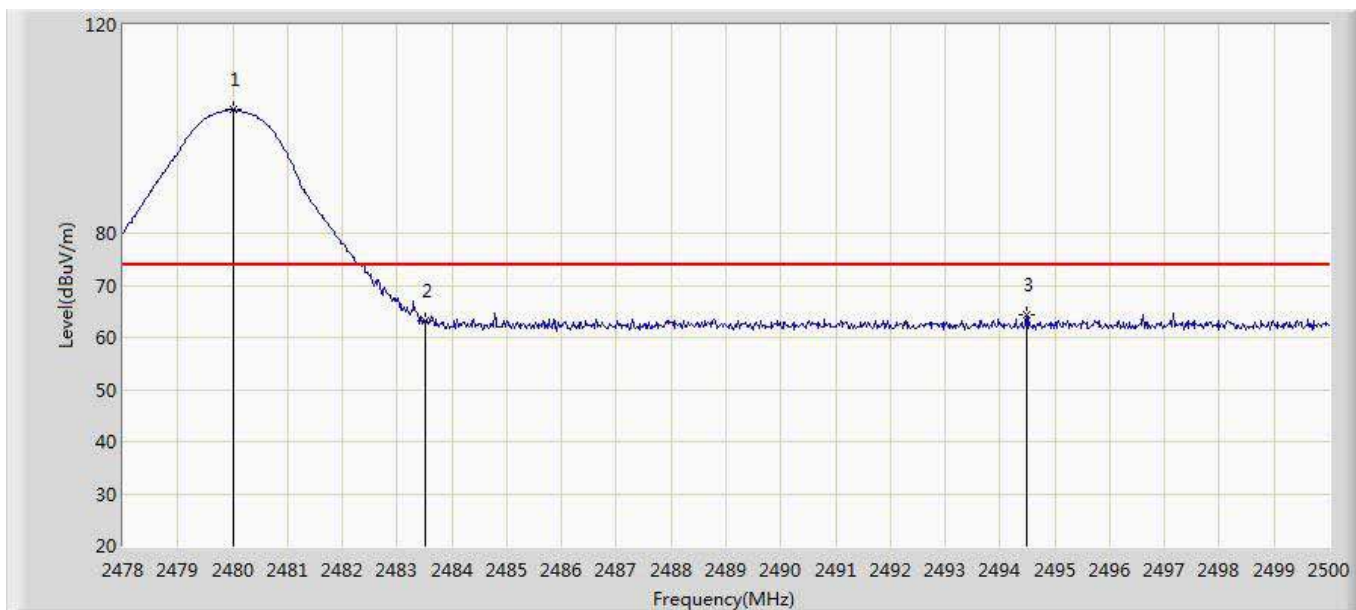
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.564	15.453	-5.436	54.000	33.111	AV
2	*	2401.932	93.242	60.082	N/A	N/A	33.160	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 17:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2480MHz	



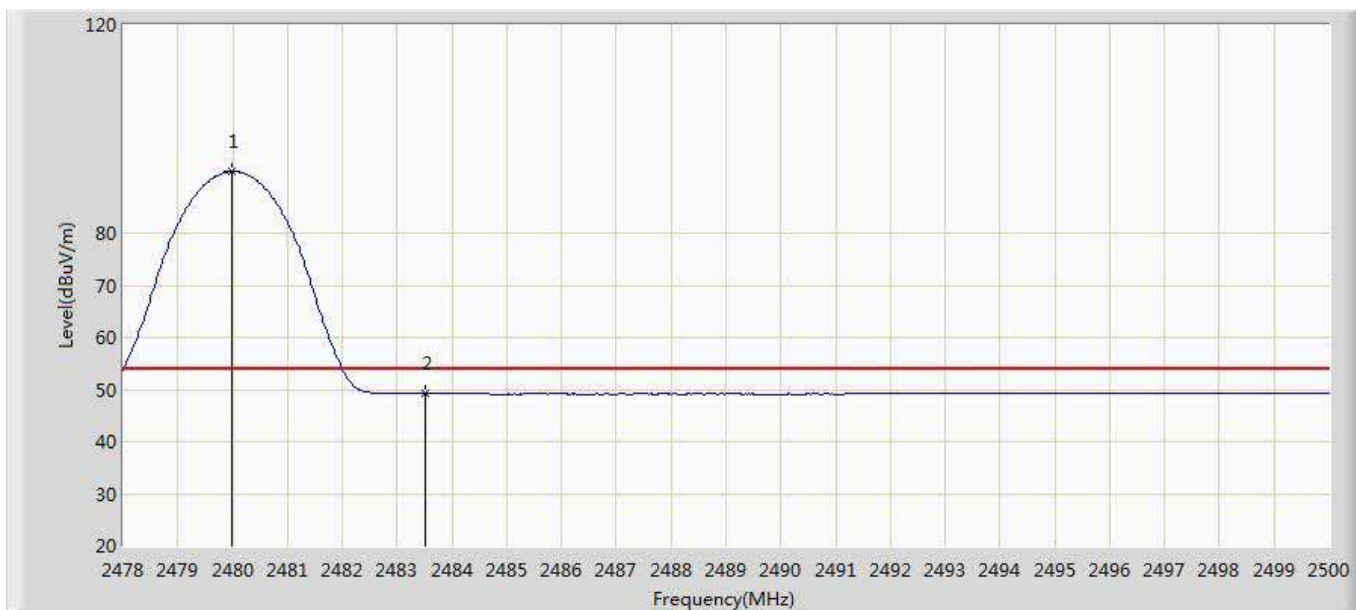
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	103.711	70.232	N/A	N/A	33.479	PK
2		2483.500	63.065	29.573	-10.935	74.000	33.493	PK
3		2494.478	64.253	30.716	-9.747	74.000	33.537	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2480MHz	



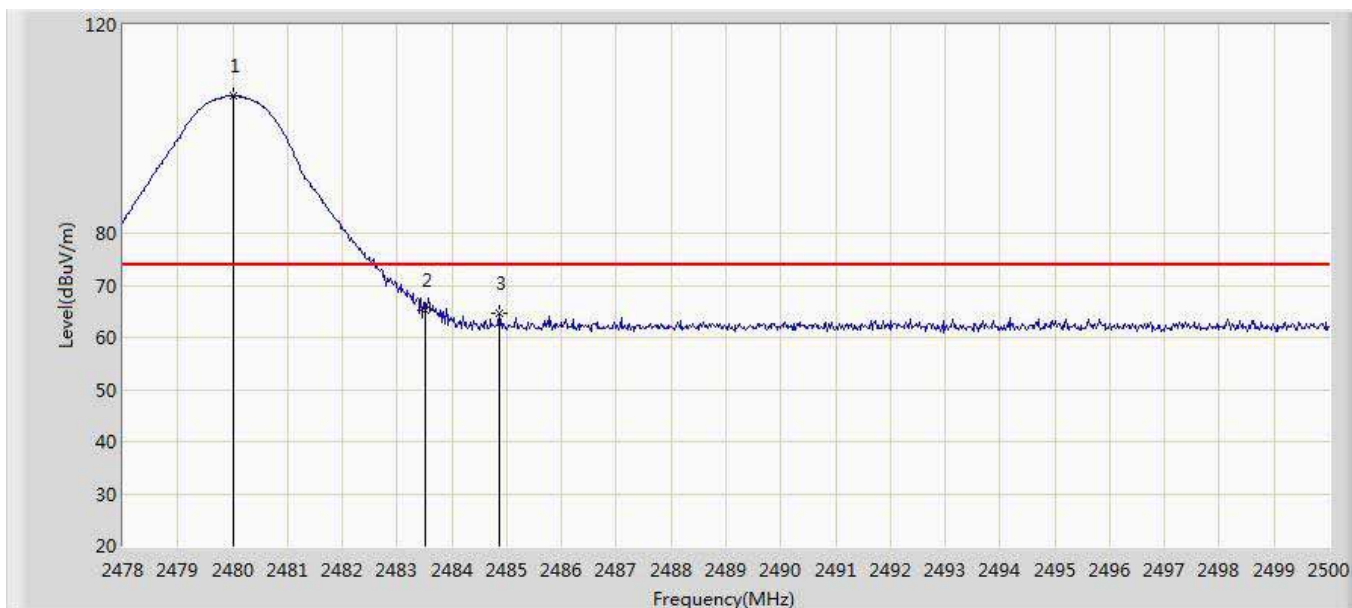
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.980	91.839	58.361	N/A	N/A	33.478	AV
2		2483.500	49.194	15.702	-4.806	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2480MHz	



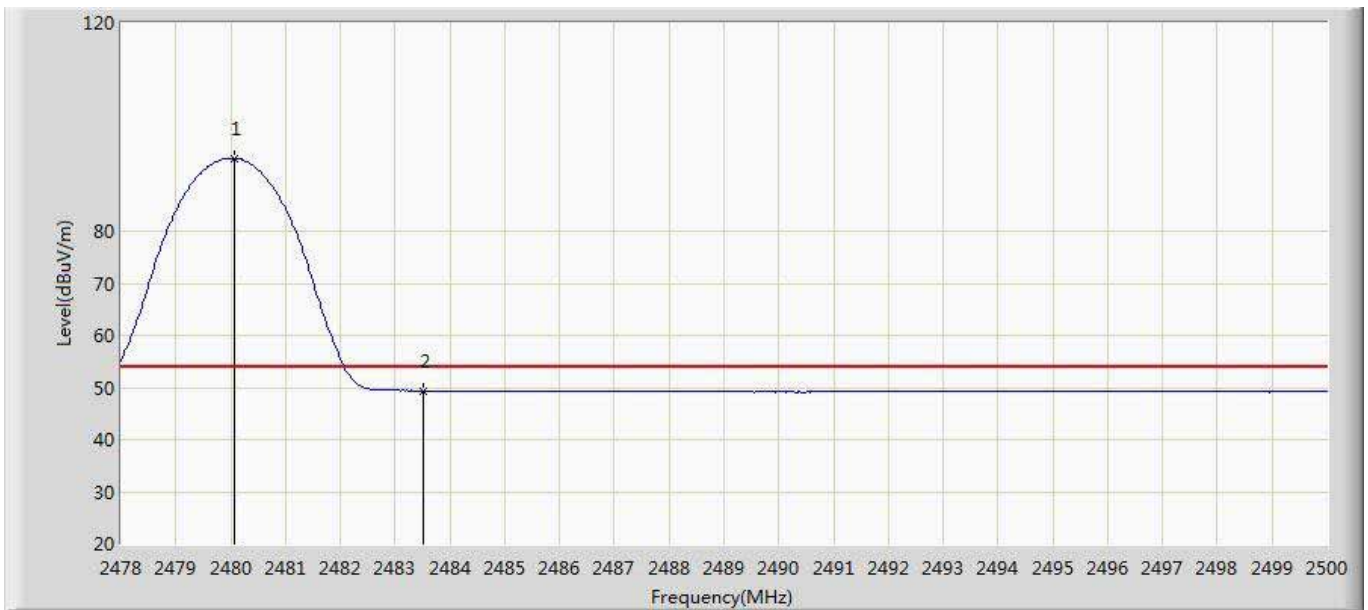
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	106.407	72.928	N/A	N/A	33.479	PK
2		2483.500	65.350	31.858	-8.650	74.000	33.493	PK
3		2484.864	64.678	31.180	-9.322	74.000	33.498	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 17:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2480MHz	



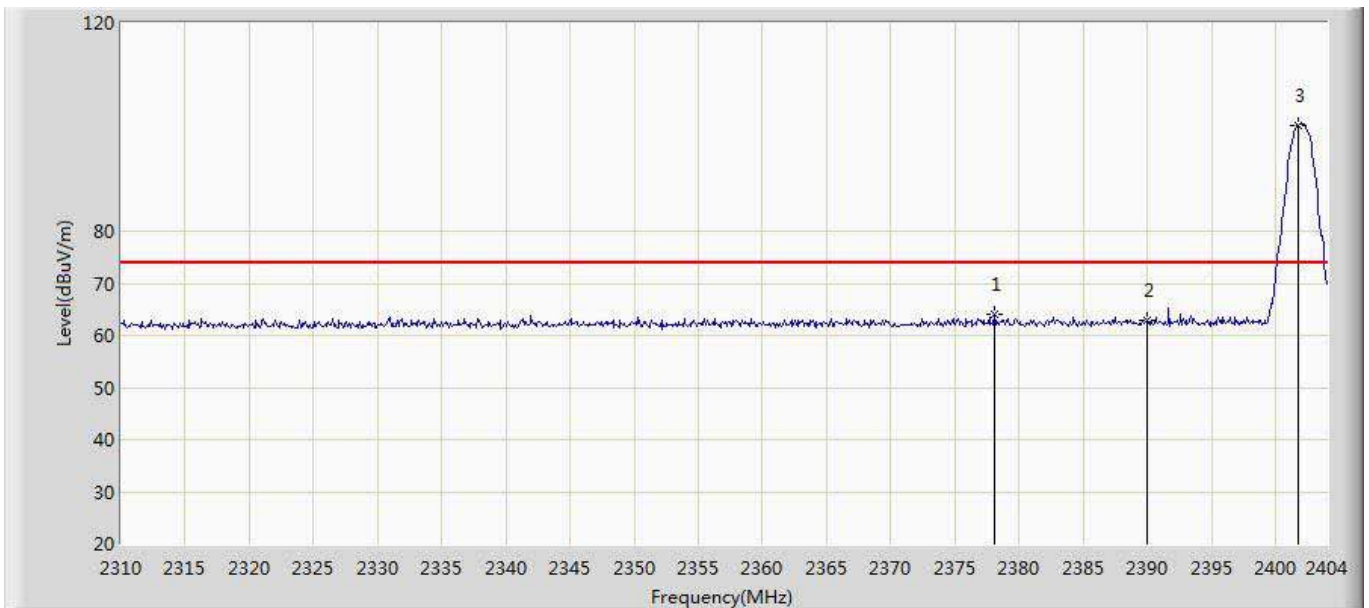
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.068	94.008	60.529	N/A	N/A	33.479	AV
2		2483.500	49.362	15.870	-4.638	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2402MHz	



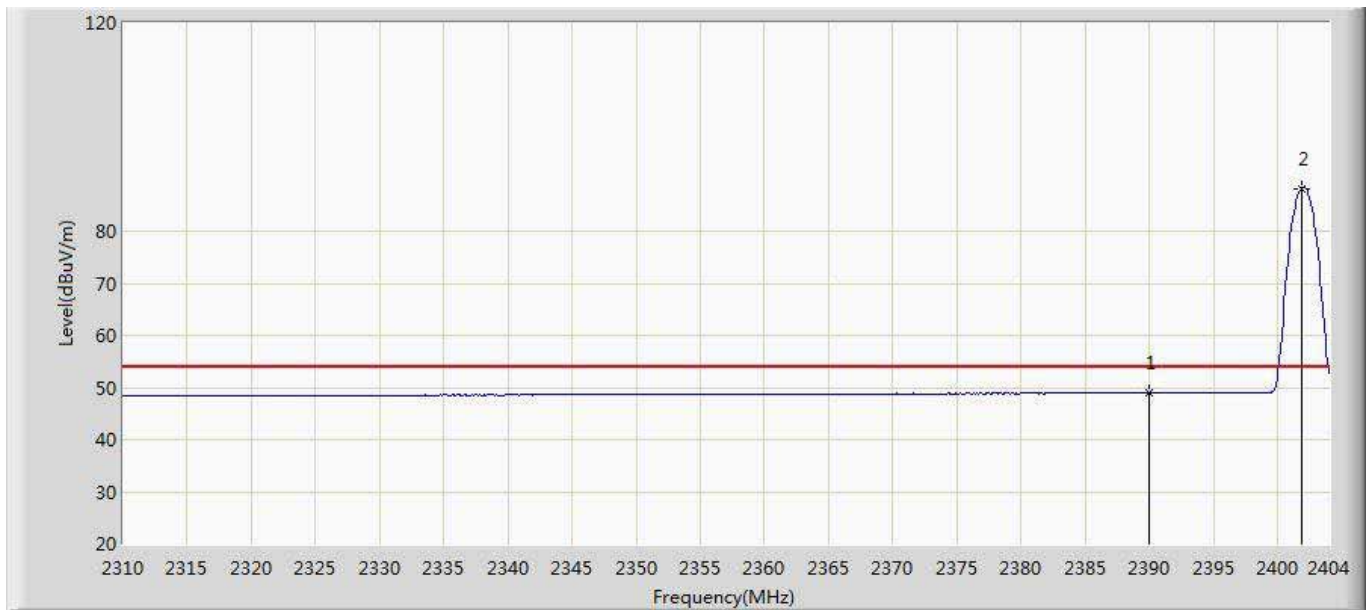
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2378.056	64.081	31.019	-9.919	74.000	33.063	PK
2		2390.000	62.880	29.769	-11.120	74.000	33.111	PK
3	*	2401.744	100.393	67.234	N/A	N/A	33.160	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2402MHz	



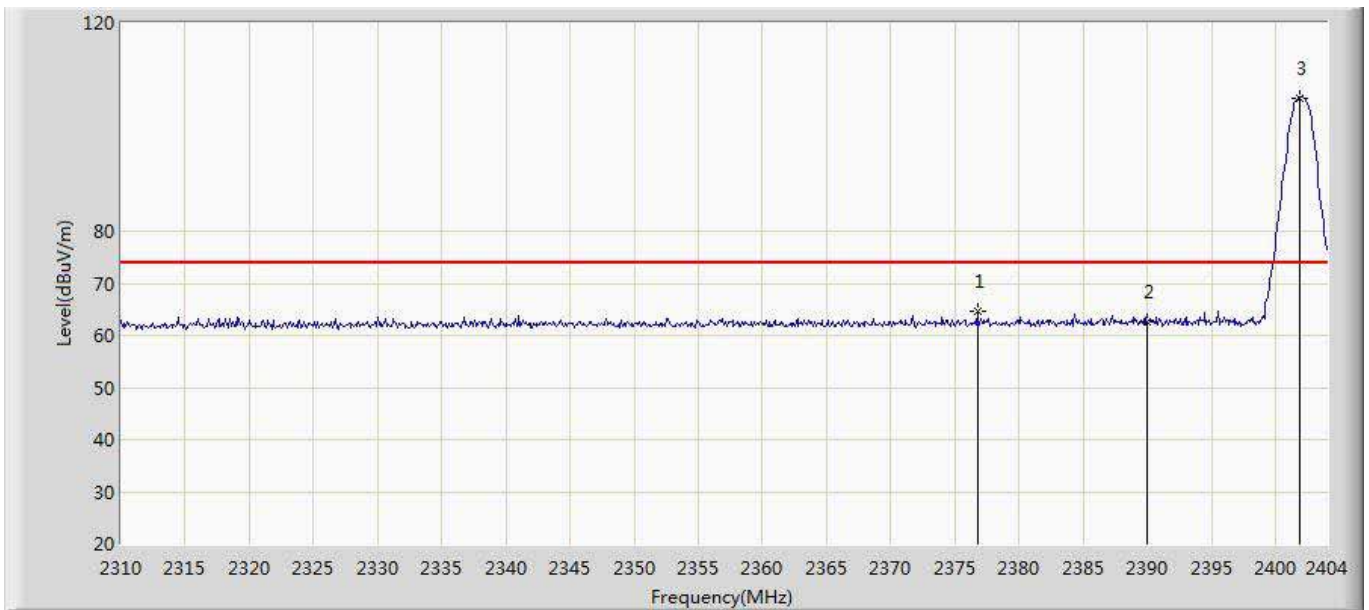
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.960	15.849	-5.040	54.000	33.111	AV
2	*	2401.838	88.168	55.008	N/A	N/A	33.160	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2402MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2376.740	64.545	31.488	-9.455	74.000	33.057	PK
2		2390.000	62.634	29.523	-11.366	74.000	33.111	PK
3	*	2401.838	105.649	72.489	N/A	N/A	33.160	PK

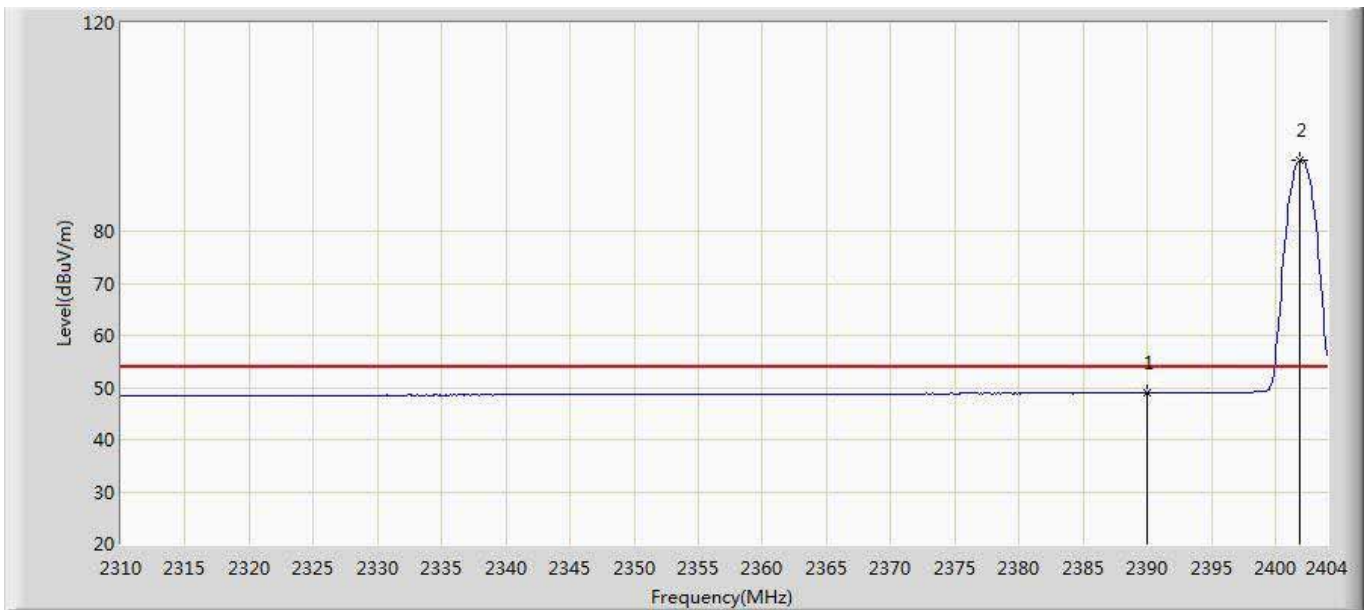
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).





Site: AC102	Time: 2016/08/27 - 18:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2402MHz	



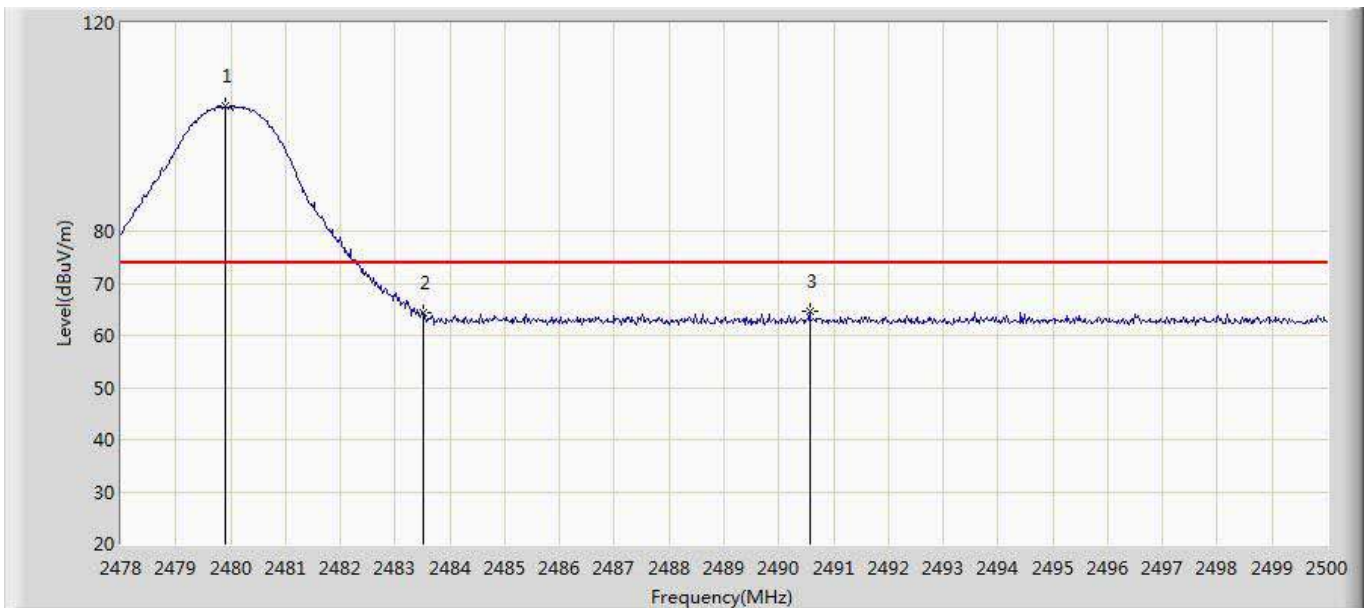
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.967	15.856	-5.033	54.000	33.111	AV
2	*	2401.838	93.519	60.359	N/A	N/A	33.160	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2480MHz	



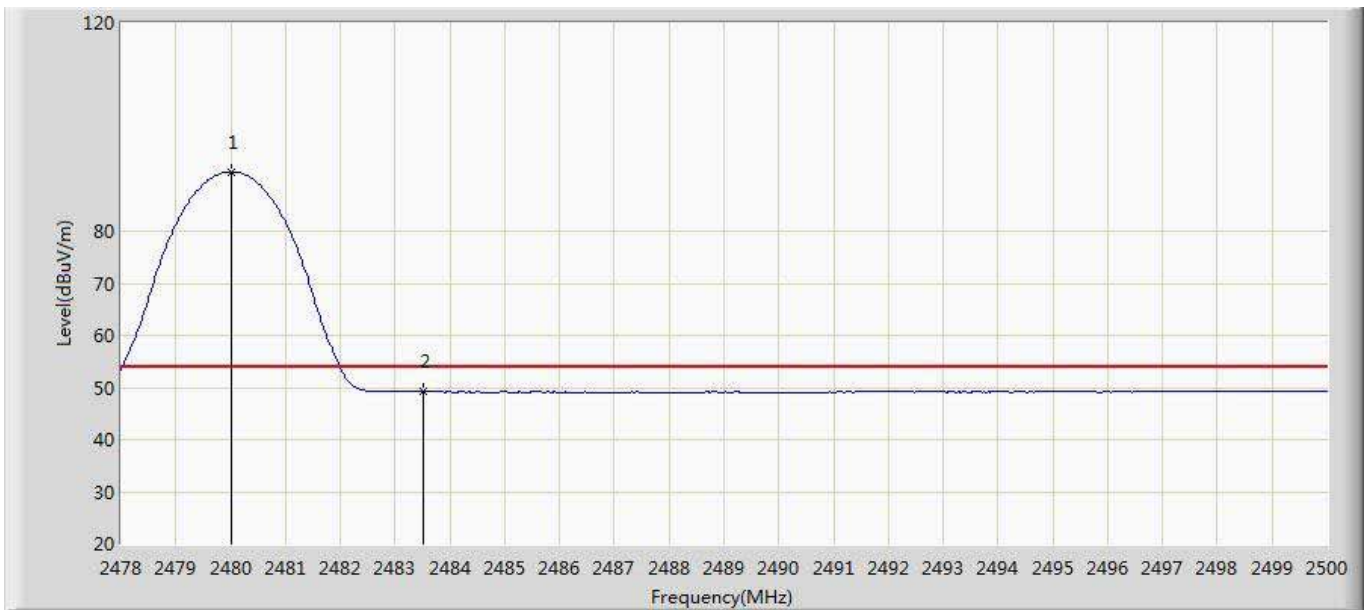
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.914	104.201	70.723	N/A	N/A	33.478	PK
2		2483.500	64.410	30.918	-9.590	74.000	33.493	PK
3		2490.562	64.718	31.197	-9.282	74.000	33.521	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2480MHz	



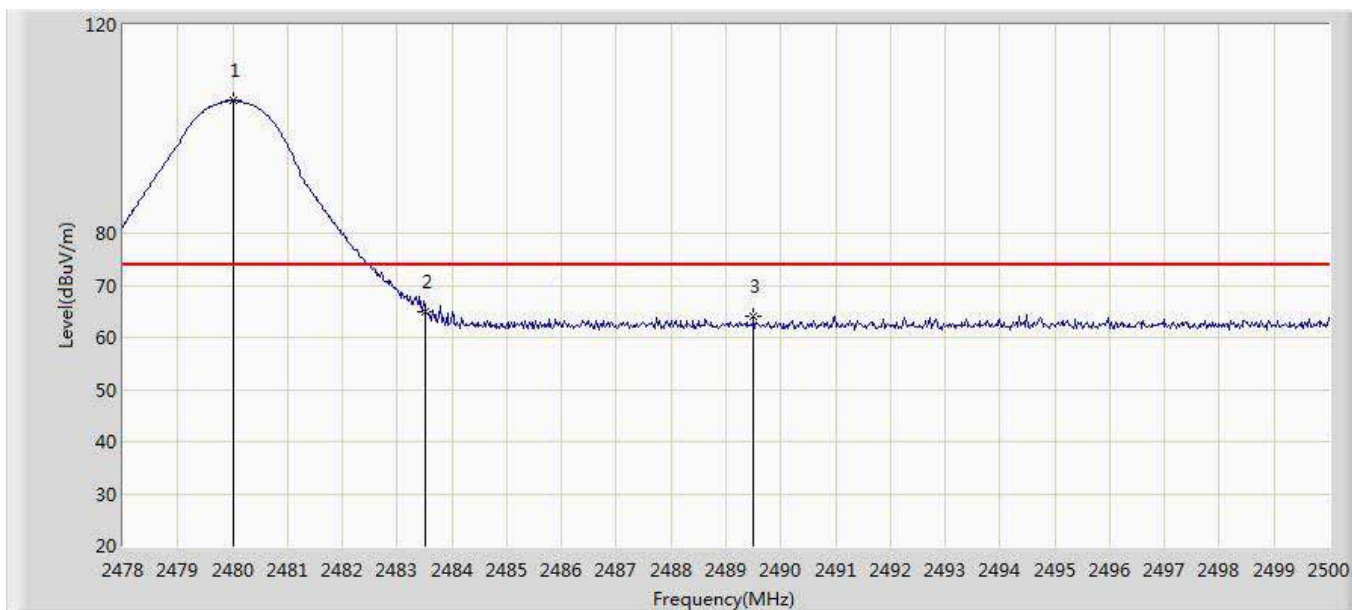
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	91.429	57.950	N/A	N/A	33.479	AV
2		2483.500	49.166	15.674	-4.834	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2480MHz	



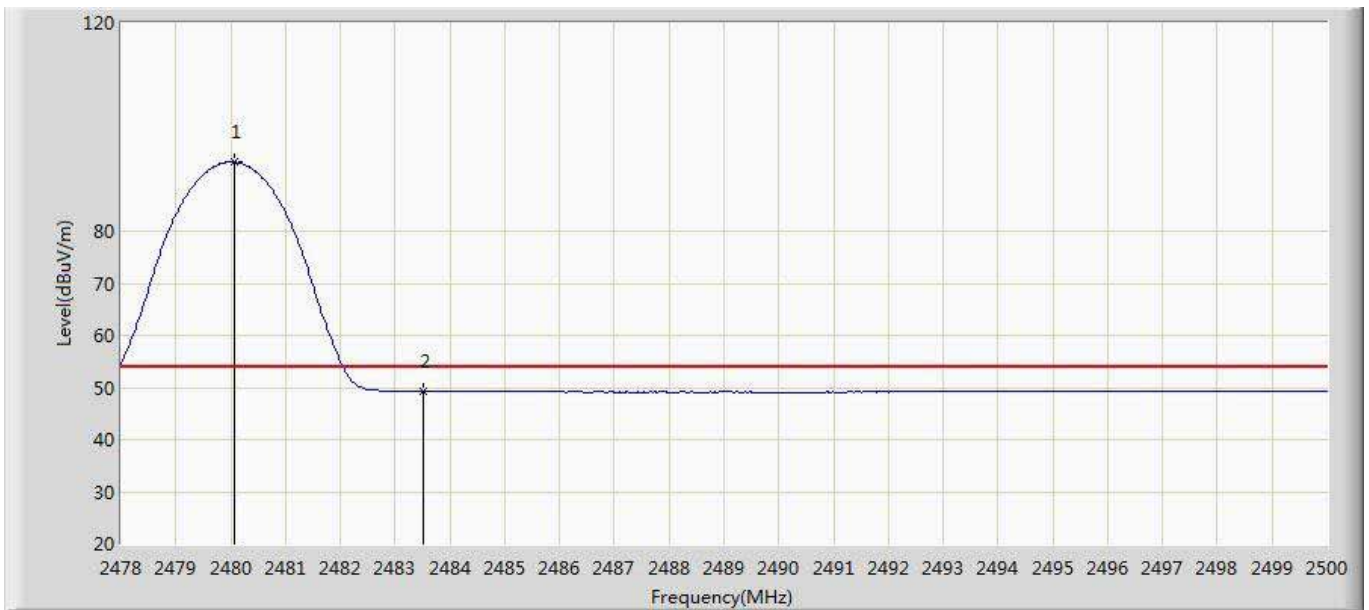
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	105.424	71.945	N/A	N/A	33.479	PK
2		2483.500	65.029	31.537	-8.971	74.000	33.493	PK
3		2489.506	63.946	30.429	-10.054	74.000	33.516	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2480MHz	



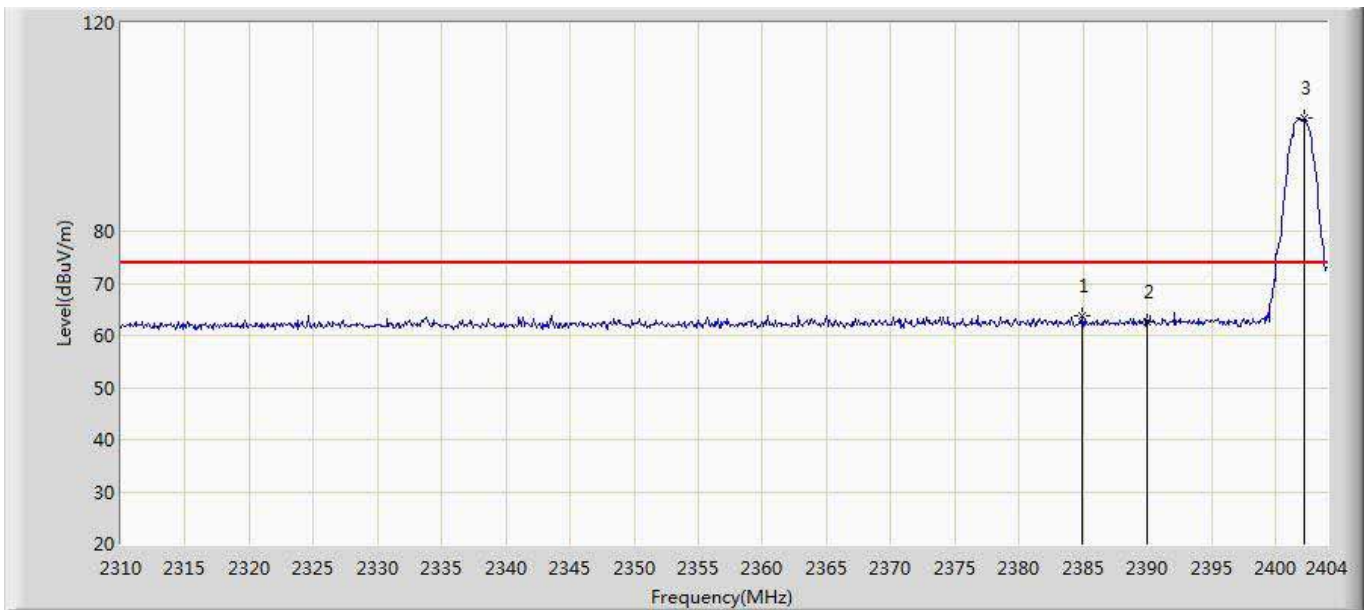
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.068	93.250	59.771	N/A	N/A	33.479	AV
2		2483.500	49.296	15.804	-4.704	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2402MHz	



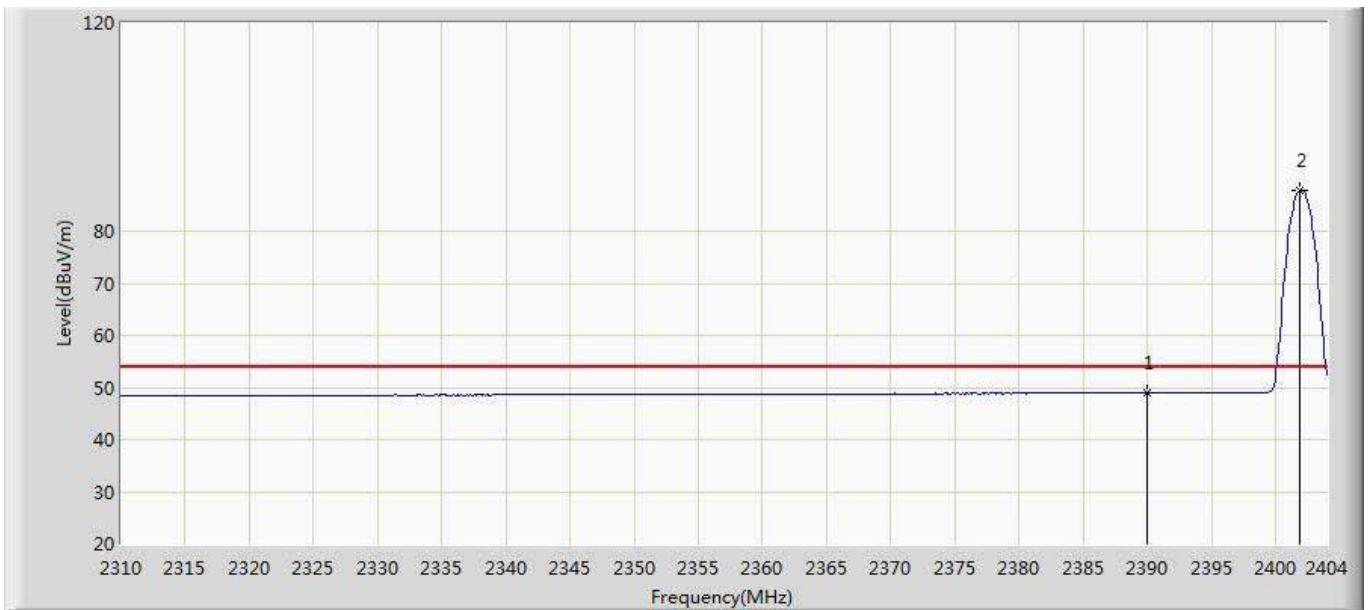
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2384.918	63.812	30.722	-10.188	74.000	33.090	PK
2		2390.000	62.743	29.632	-11.257	74.000	33.111	PK
3	*	2402.214	101.619	68.458	N/A	N/A	33.162	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2402MHz	



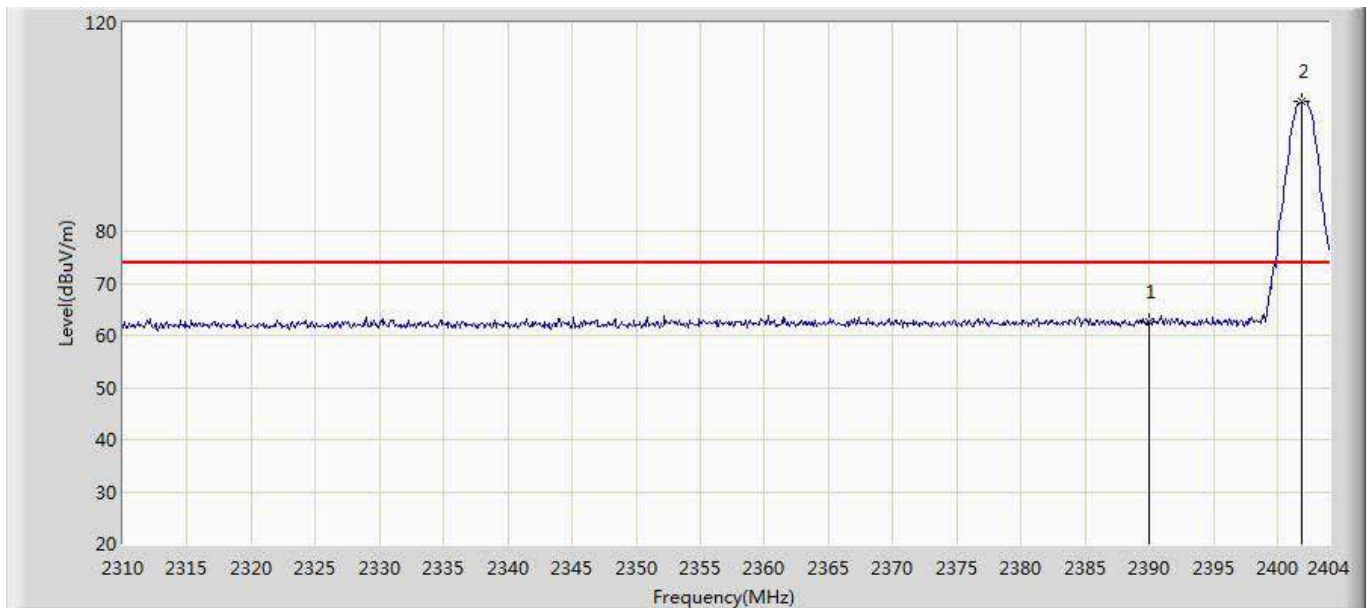
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.977	15.866	-5.023	54.000	33.111	AV
2	*	2401.932	87.958	54.798	N/A	N/A	33.160	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2402MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.709	29.598	-11.291	74.000	33.111	PK
2	*	2401.932	105.068	71.908	N/A	N/A	33.160	PK

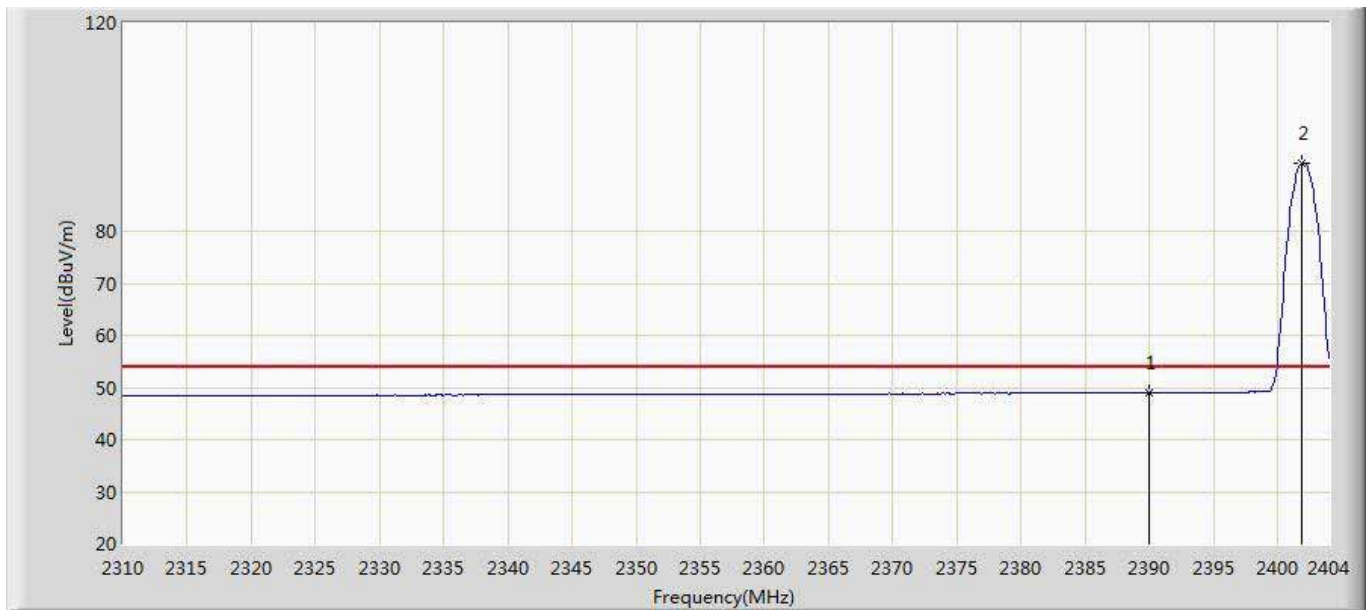
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).





Site: AC102	Time: 2016/08/27 - 18:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2402MHz	



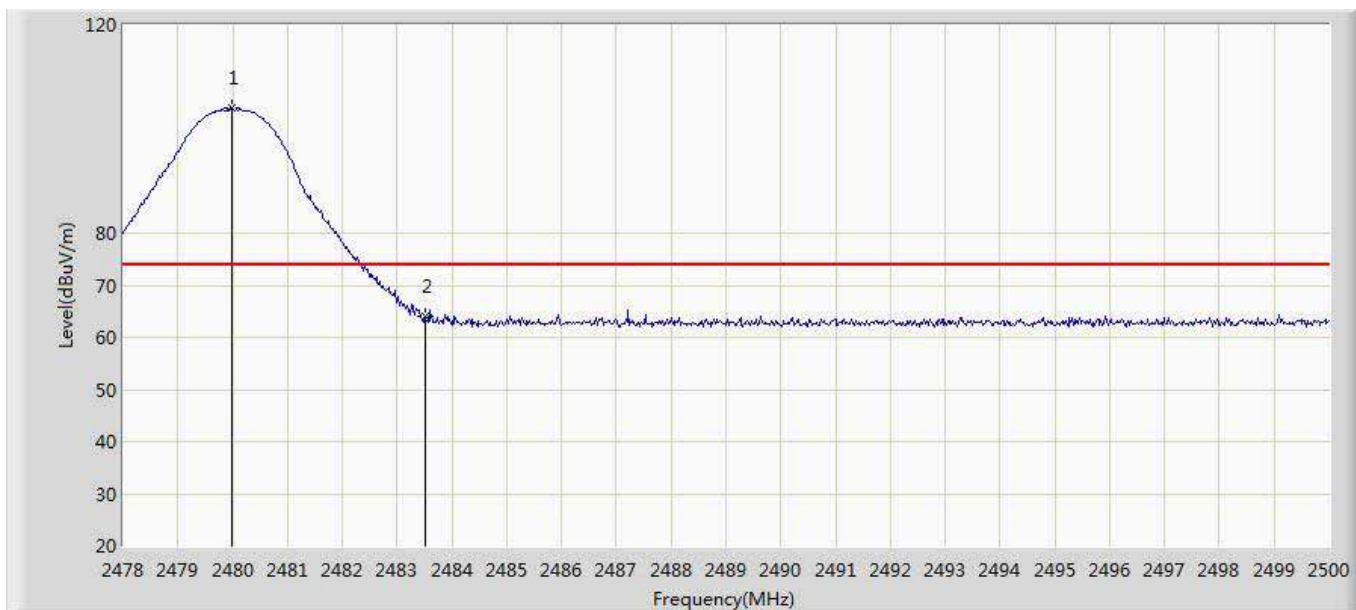
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.984	15.873	-5.016	54.000	33.111	AV
2	*	2401.838	92.975	59.815	N/A	N/A	33.160	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2480MHz	



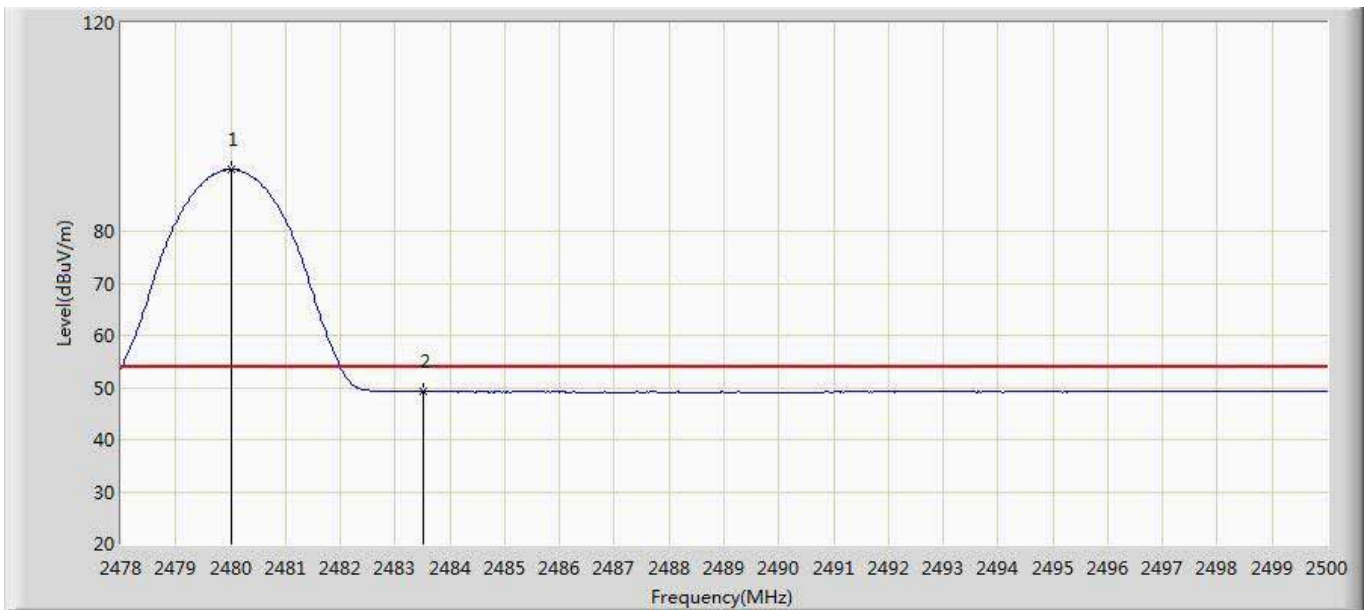
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.980	104.144	70.666	N/A	N/A	33.478	PK
2		2483.500	63.980	30.488	-10.020	74.000	33.493	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 001	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2480MHz	



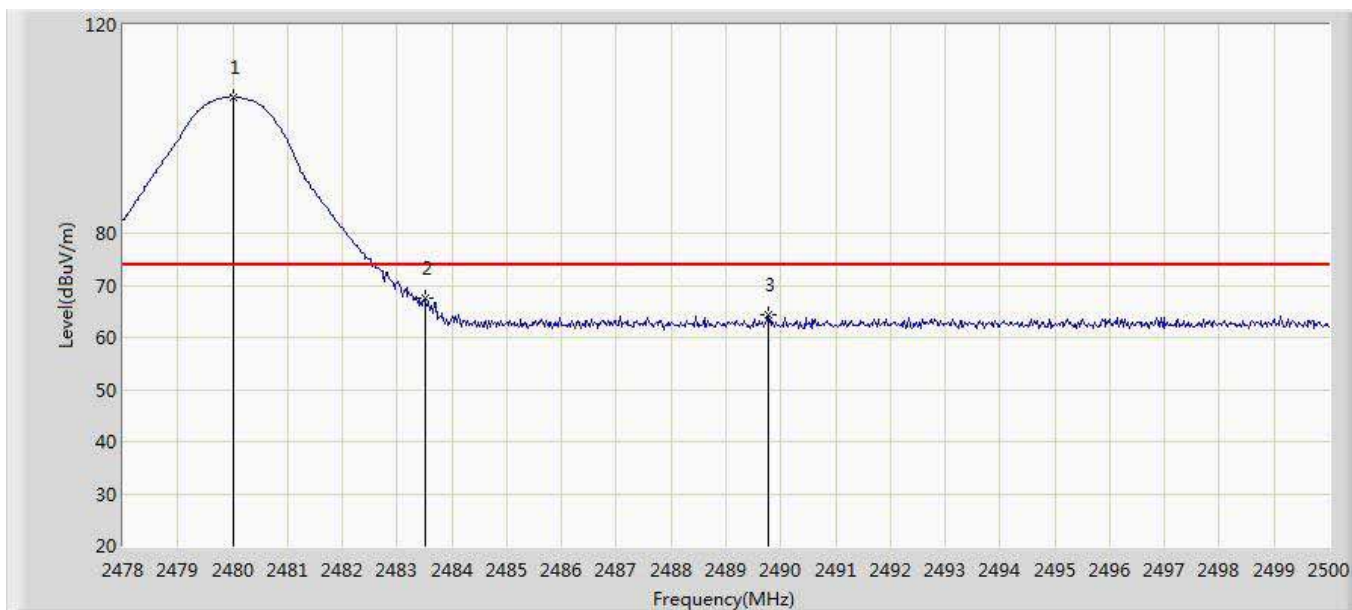
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	91.808	58.329	N/A	N/A	33.479	AV
2		2483.500	49.193	15.701	-4.807	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2480MHz	



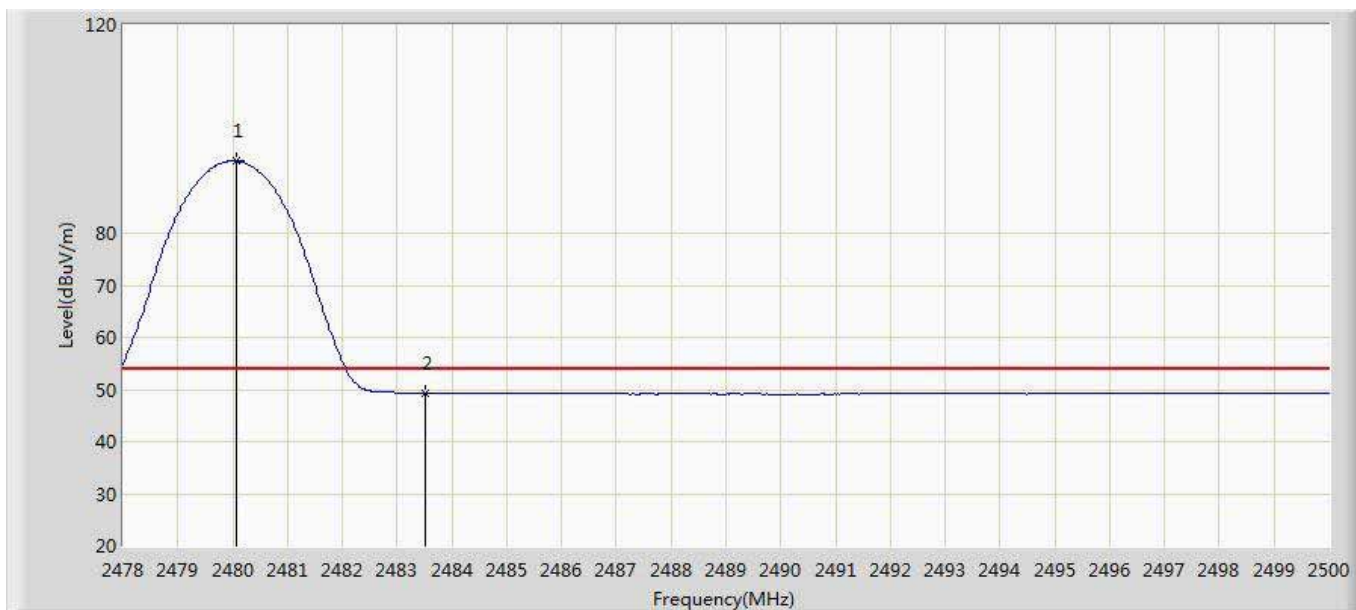
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	106.190	72.711	N/A	N/A	33.479	PK
2		2483.500	67.539	34.047	-6.461	74.000	33.493	PK
3		2489.770	64.291	30.773	-9.709	74.000	33.518	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC102	Time: 2016/08/27 - 18:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 001	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.068	93.836	60.357	N/A	N/A	33.479	AV
2		2483.500	49.368	15.876	-4.632	54.000	33.493	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

The End