



FCC RF TEST REPORT

REPORT NO.: SEFB161009-A

MODEL NO.: LHT-V16S

RECEIVED: Oct. 13, 2016

ISSUED: Oct.19, 2016

APPLICANT: Le Shi Zhi Xin Electronic Technology (Tian jin) Limited

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Middle Road, Eco-city Tianjin, China

MANUFACTURER: Le Shi Zhi Xin Electronic Technology (Tian jin) Limited

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ISSUED BY: BUREAU VERITAS ADT (Shanghai) Corporation

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China

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History of this Test Report

Report No.	Version	Issue Date	Description
SEFB1610009-A	Rev 01	Oct.19, 2016	Original.



1.CERTIFICATION

PRODUCT: LeEco Soundbar

MODEL NO.: LHT-V16S

APPLICANT: Le Shi Zhi Xin Electronic Technology (Tian jin) Limited

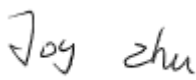
MANUFACTURER: 201-427 2F B1 District, Anime building, No.126 Anime
Middle Road, Eco-city Tianjin, China

TESTED: Oct. 13, 2016~ Oct. 19, 2016

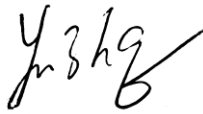
STANDARDS: FCC Part 15: 2015, Subpart C

PREPARED BY :  , **DATE:** Oct. 19, 2016

Bing YE
Testing Engineer

**TECHNICAL
ACCEPTANCE :**  , **DATE:** Oct. 19, 2016

Joy ZHU
Testing Manager

APPROVED BY :  , **DATE:** Oct. 19, 2016

Zhaoqian YU
Lab Manager



2. Report of Measurements and Examinations

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



3. General Info

3.1 Description of wireless module

Wireless Module	TBM-C830
Bluetooth Specification	3.0HS
Modulation Type	V3.0+HS: GFSK, Pi/4 DQPSK, 8DPSK
Frequency Range	2402 - 2480 MHz
Channel Number	V3.0+HS: 79
Data Rate	V3.0+HS: 1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Channel Separation	V3.0+HS: 1MHz

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

3.2 Description of Antenna

Antenna	Peak Gain
PCB Antenna	2dBi for 2.4 GHz ~2.5 GHz



3.3 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

3.4 The Worst Case Configuration

Data rate Configuration:

Test Mode	
DH5	✓
2DH5	✓
3DH5	✓



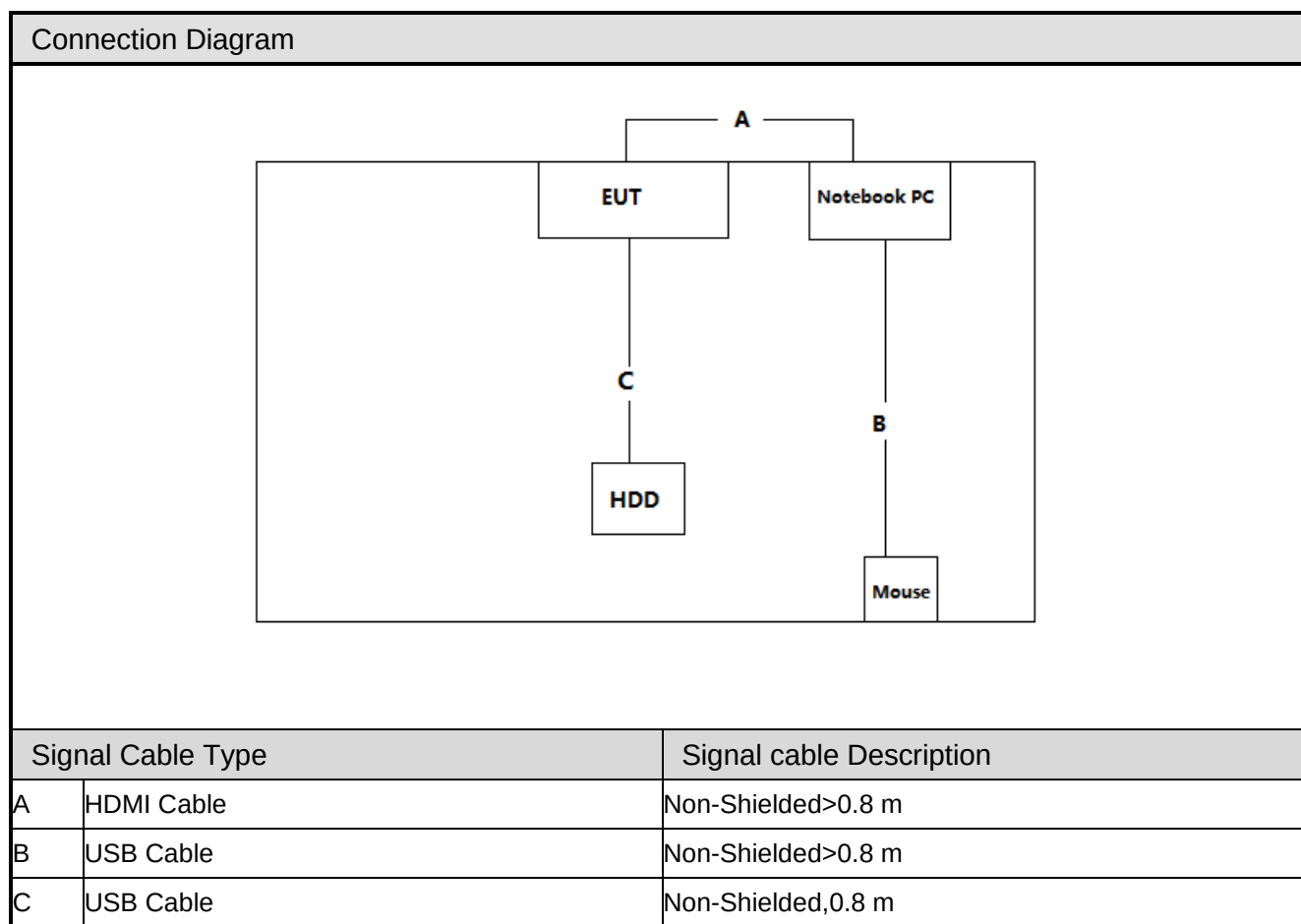
3.5 EUT Exercise Software

1	Turn on the power of equipment.
2	Set the test mode and channel, then press OK to start continue transmit or receive.



3.6 Support equipment

No	Device	Manufacturer	Model No.	Description
1	Notebook PC	SONY	PCG-71811P	Non-Shielded,1.5m (R33021)
2	Mouse	DELL	G0K02XYK	R41108
3	HDD	SSK	N/A	N/A





4. General Information of Test Site

4.1 Information of Test Site

Test Site	Cerpass 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

4.2 Measuring Equipment

RF Conducted Measuring Equipment-AC104					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Peak Power Sensor	Booton	55006	9778	2016.06.08	2017.06.07
Series Power Meter	ANRITSU	ML2495A	1224005	2016.03.27	2017.03.26
Spectrum Analyzer	N9010A	Agilent	MY53400169	2016.11.11	2017.11.11
Spectrum Analyzer	E4407B	Agilent	MY44211883	2016.10.15	2017.10.14
Temperature/Humidity Meter	Zhicheng	ZC1-11	CEP-TH-003	2016.03.31	2017.03.30

AC Conducted Emission Measuring Equipment-SR101					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A
EMI Test Receiver	R&S	ESCI	100565	2016.03.26	2017.03.25
Artificial-Mains-Network	R&S	ESH2-Z5	100182	2016.08.31	2017.08.30
Line Impedance Stabilization Network	FCC	FCC-LISN-50-200-2-02	112087	2016.08.31	2017.08.30
Temperature/Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2016.03.29	2017.03.28



Radiated Measuring Equipment-AC102					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Loop Antenna	R&S	HFH2-Z2	100150	2016.08.31	2017.08.30
Bilog Antenna	Sunol Science	JB1	A072414-1	2016.04.16	2017.04.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2016.07.16	2017.07.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-348	2016.05.07	2017.05.06
Preamplifier	HP	8447F	3113A05582	2016.03.26	2017.03.25
Preamplifier	EMCI	EMC-051835	980085	2016.09.06	2017.09.05
Preamplifier	COM-POWER	PA-840	711885	2016.03.26	2017.03.25
EMI Test Receiver	R&S	ESCI-3	101183	2016.06.29	2017.06.28
Spectrum Analyzer	N9010A	Agilent	MY53400169	2016.11.11	2017.11.11
Spectrum Analyzer	R&S	FS040	100324	2016.03.26	2017.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2016.03.31	2017.03.30



4.3 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

5. AC Conducted Emission Measurement

5.1 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.

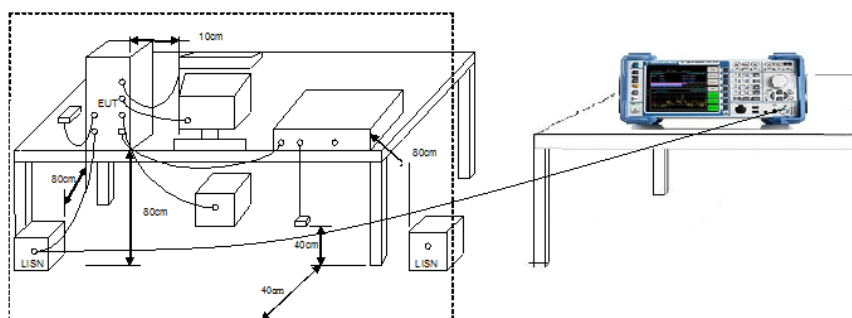
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

5.2 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.

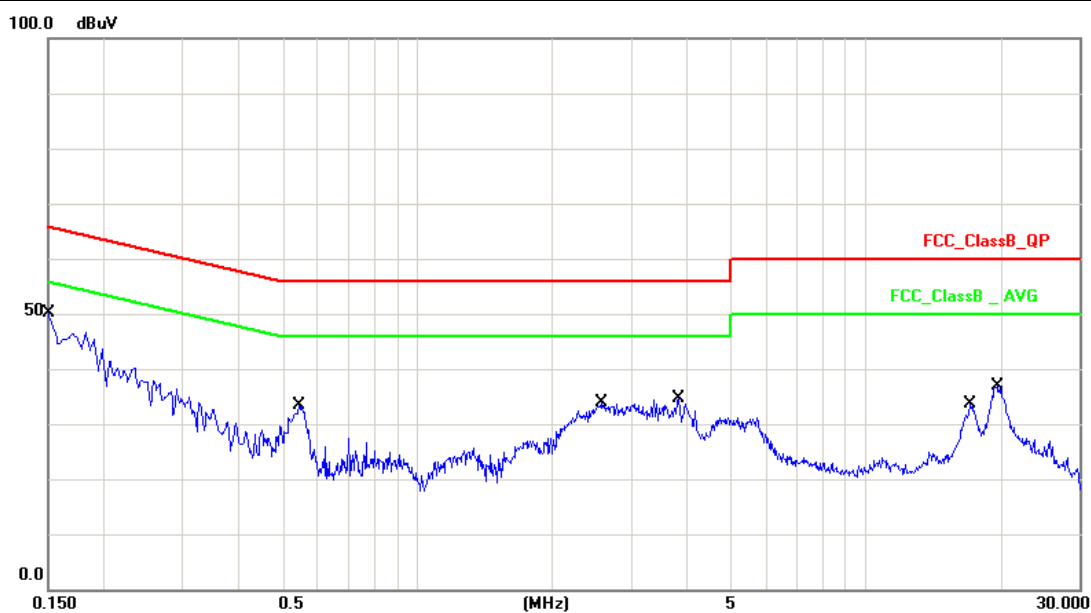
5.3 Typical Test Setup





5.4 Test Result and Data

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:	2016/10/22

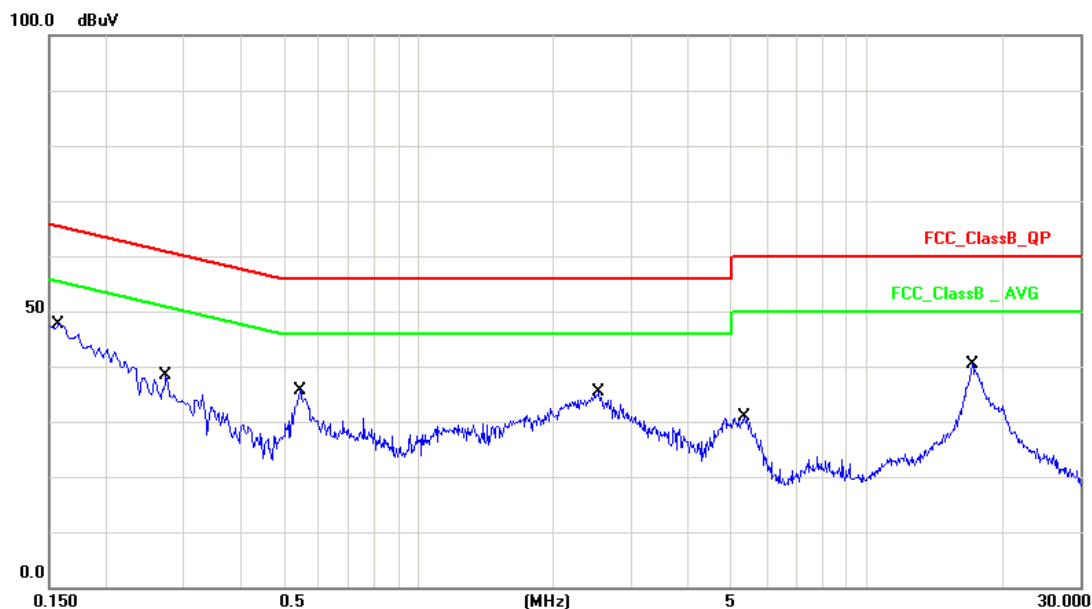


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	35.25	45.38	65.99	-20.61	QP
2	0.1500	10.13	16.14	26.27	55.99	-29.72	AVG
3	0.5460	10.16	21.07	31.23	56.00	-24.77	QP
4	0.5460	10.16	14.80	24.96	46.00	-21.04	AVG
5	2.5940	10.18	20.61	30.79	56.00	-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:	2016/10/22



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



6. Radiated Emission Measurement

6.1 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.

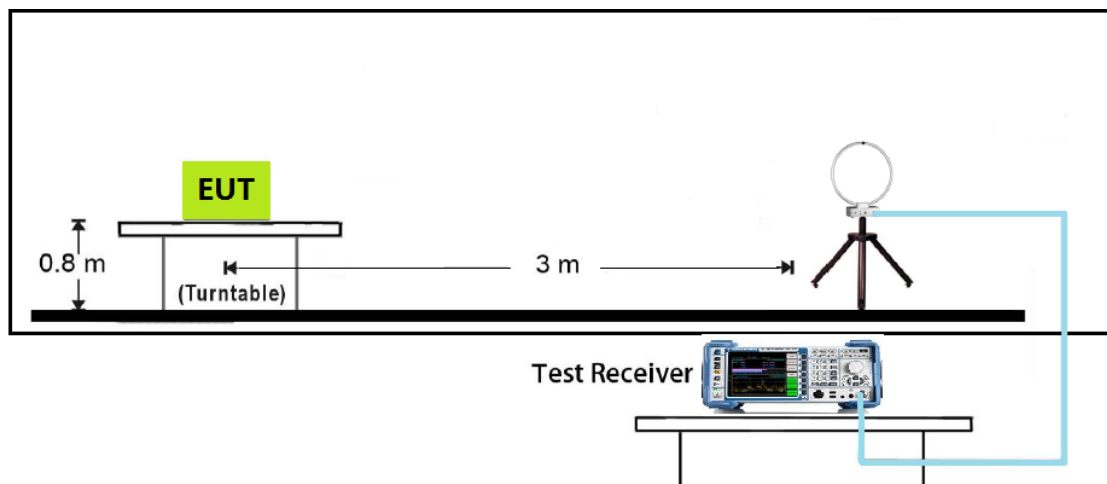
Frequency (MHz)	Distance Meters	Radiated (dB μ V/ M)
30-230	10	30
230-1000	10	37

6.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter for frequency below 1GHz and 1.5meter for frequency above 1GHz above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

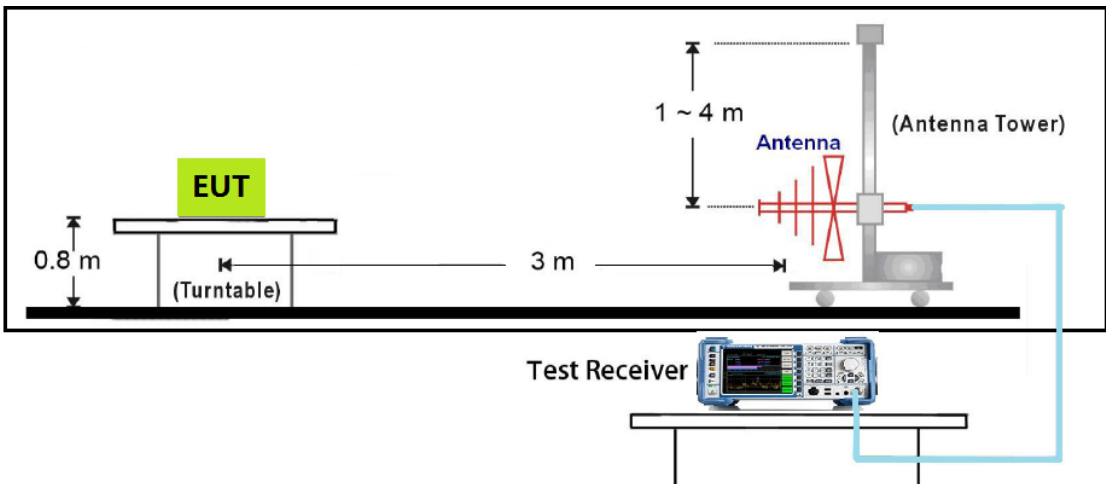
6.3 Typical Test Setup

9kHz~30MHz Test Setup

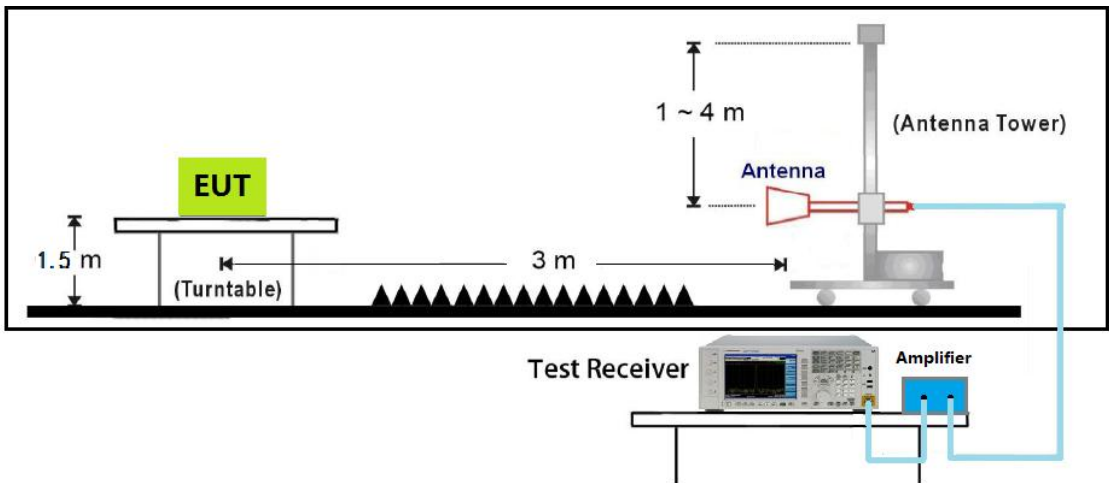




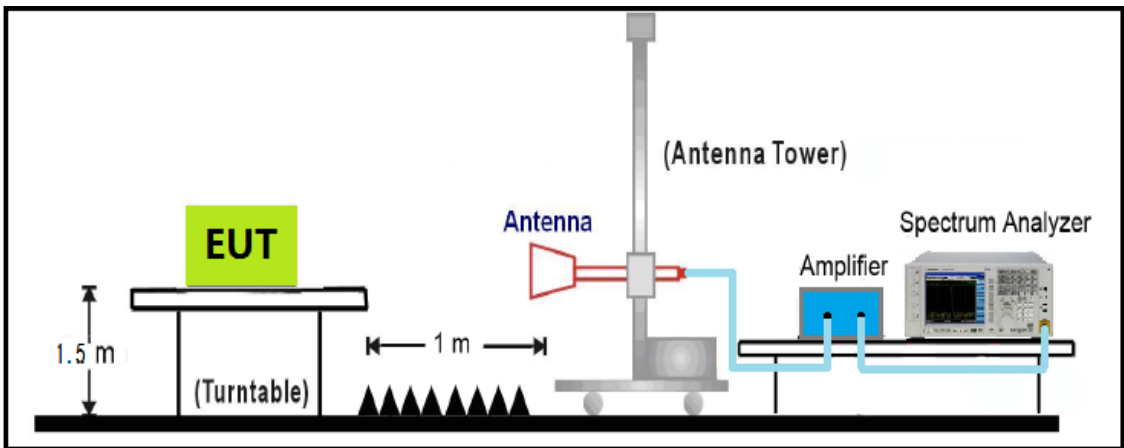
Below 1GHz Test Setup



1GHz~18GHz Test Setup



18GHz~40GHz Test Setup

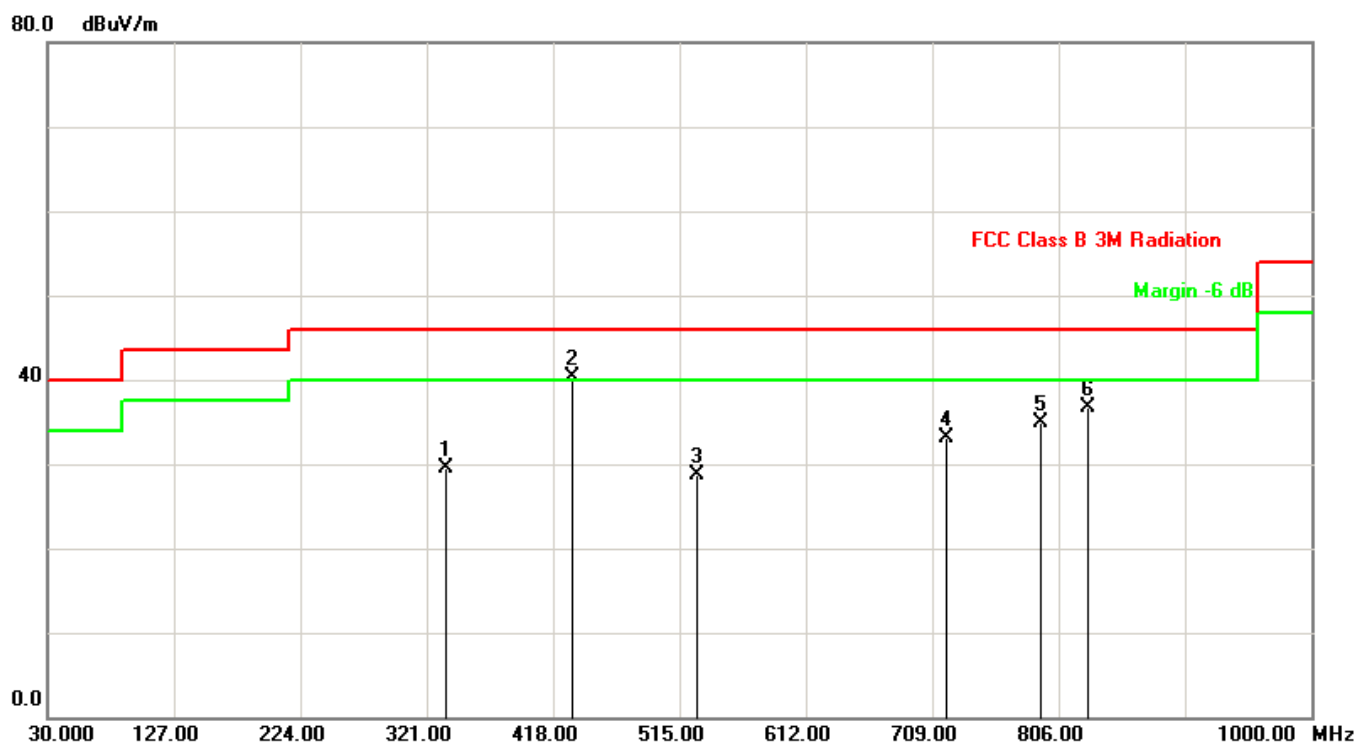




6.4 Test Result and Data

The worst case of Radiated Emission below 1GHz:

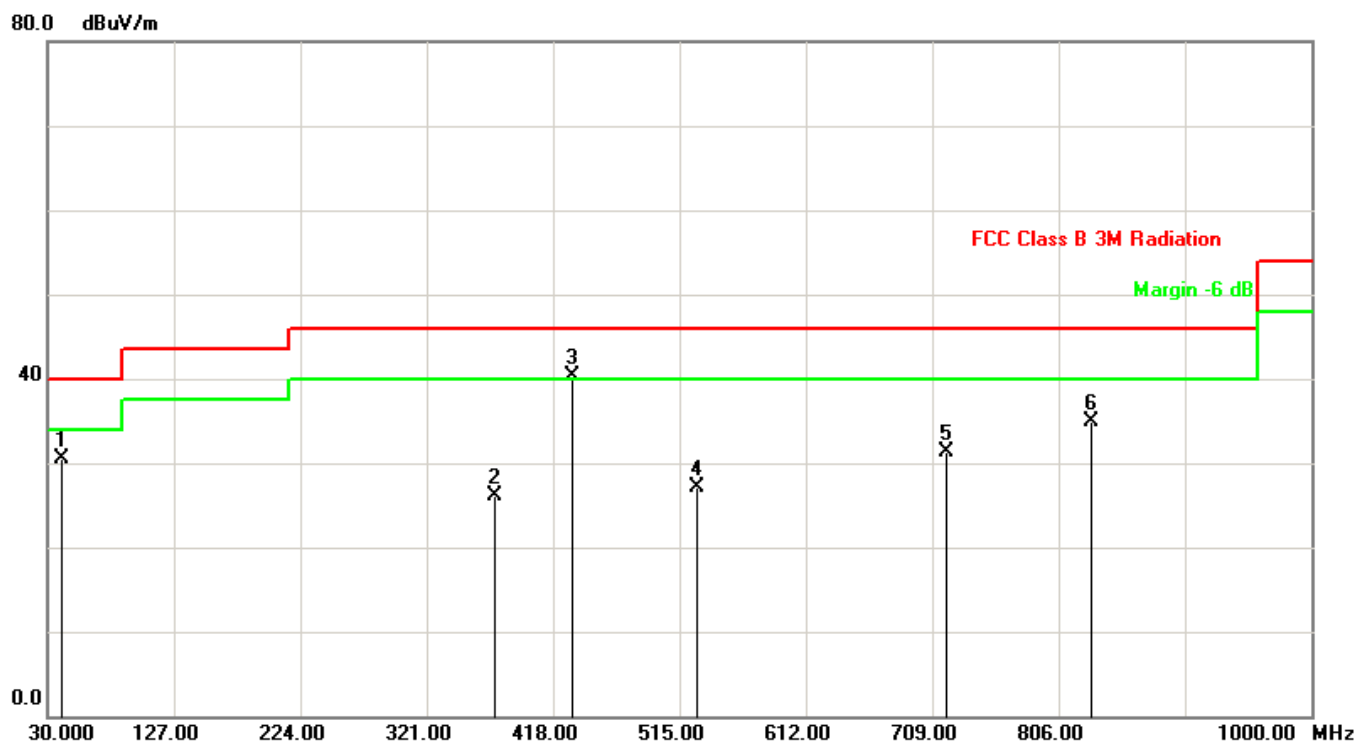
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2402MHz	



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



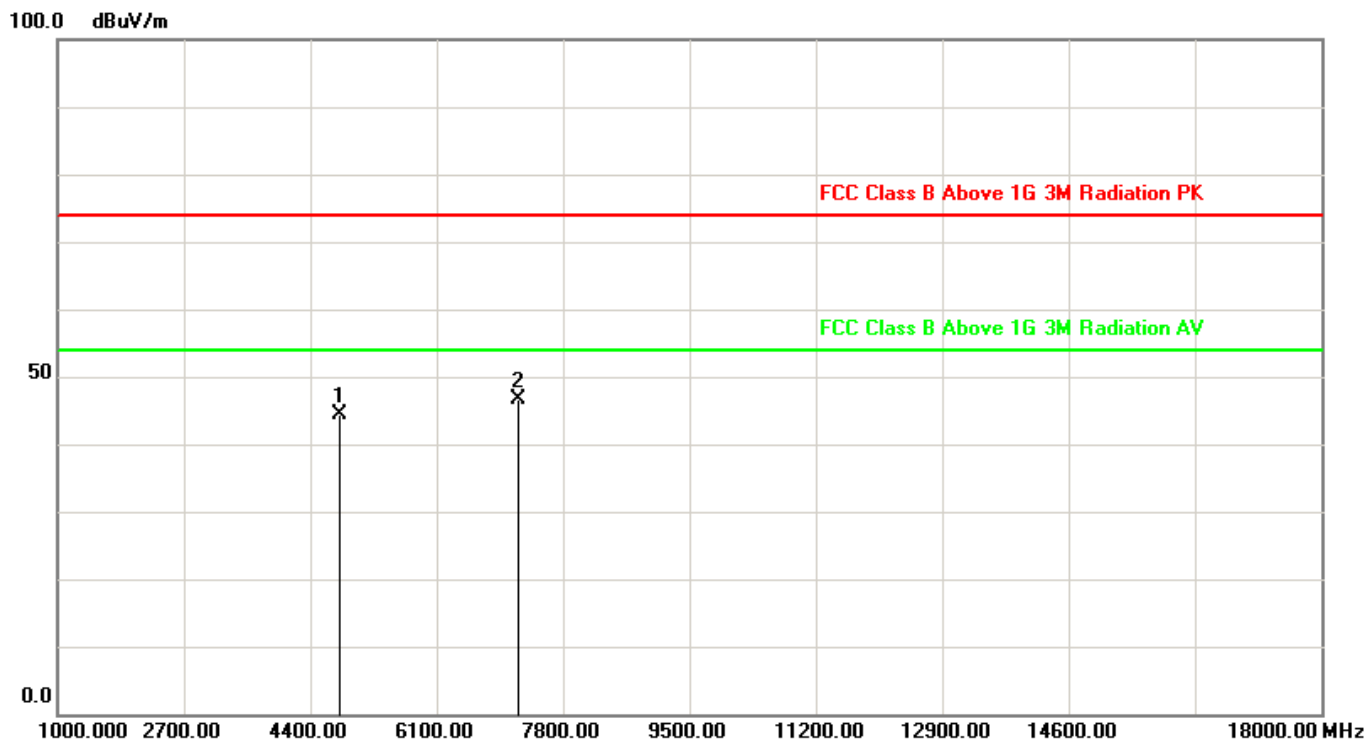
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2402MHz	



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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2402MHz	



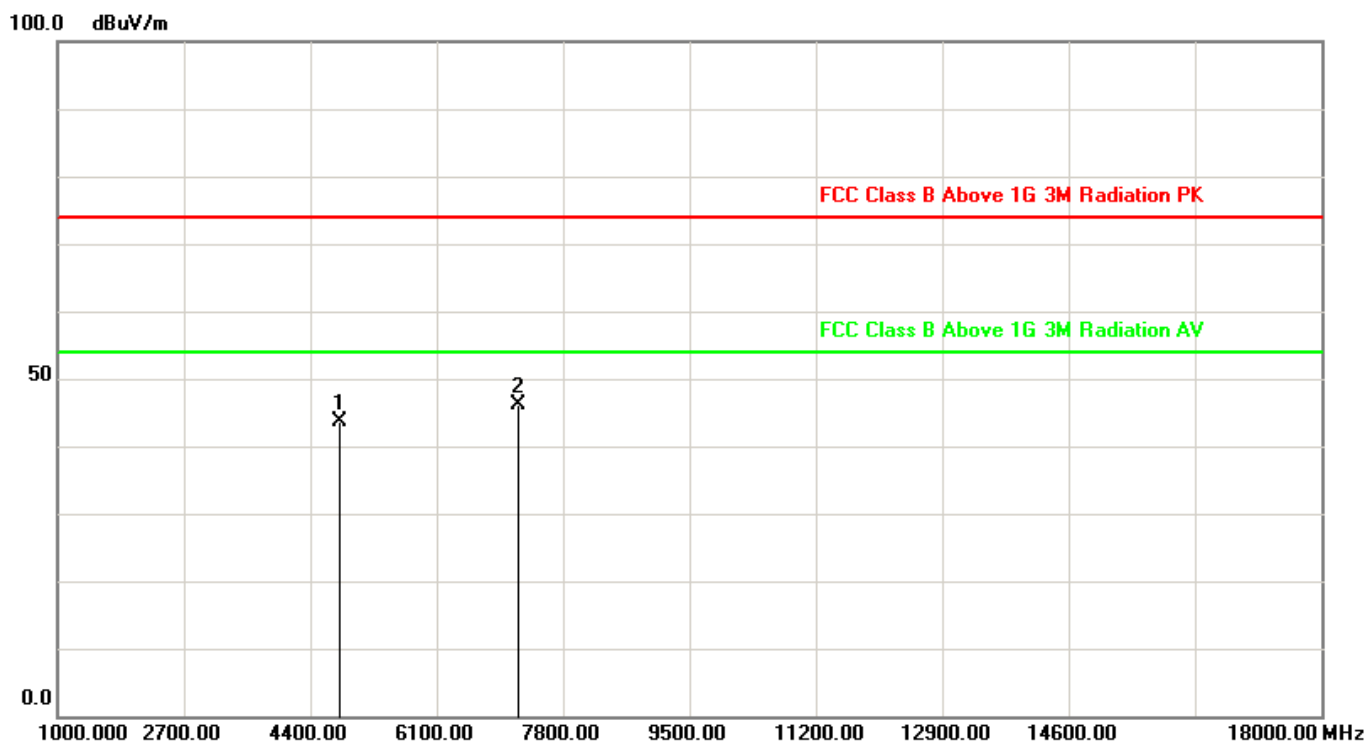
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	48.37	44.48	74.00	-29.52	peak
2	7206.000	0.54	46.09	46.63	74.00	-27.37	peak

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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2402MHz	



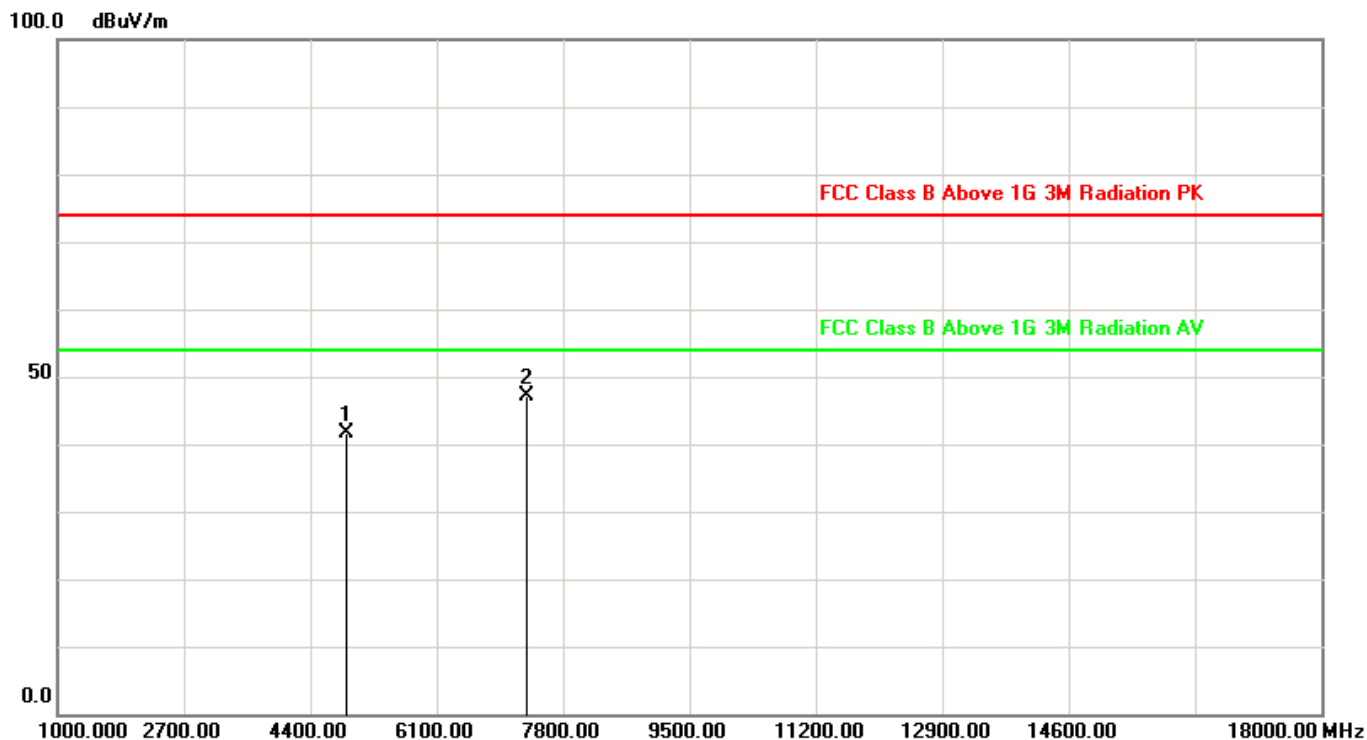
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	47.42	43.53	74.00	-30.47	peak
2	7206.000	0.54	45.55	46.09	74.00	-27.91	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2441MHz	



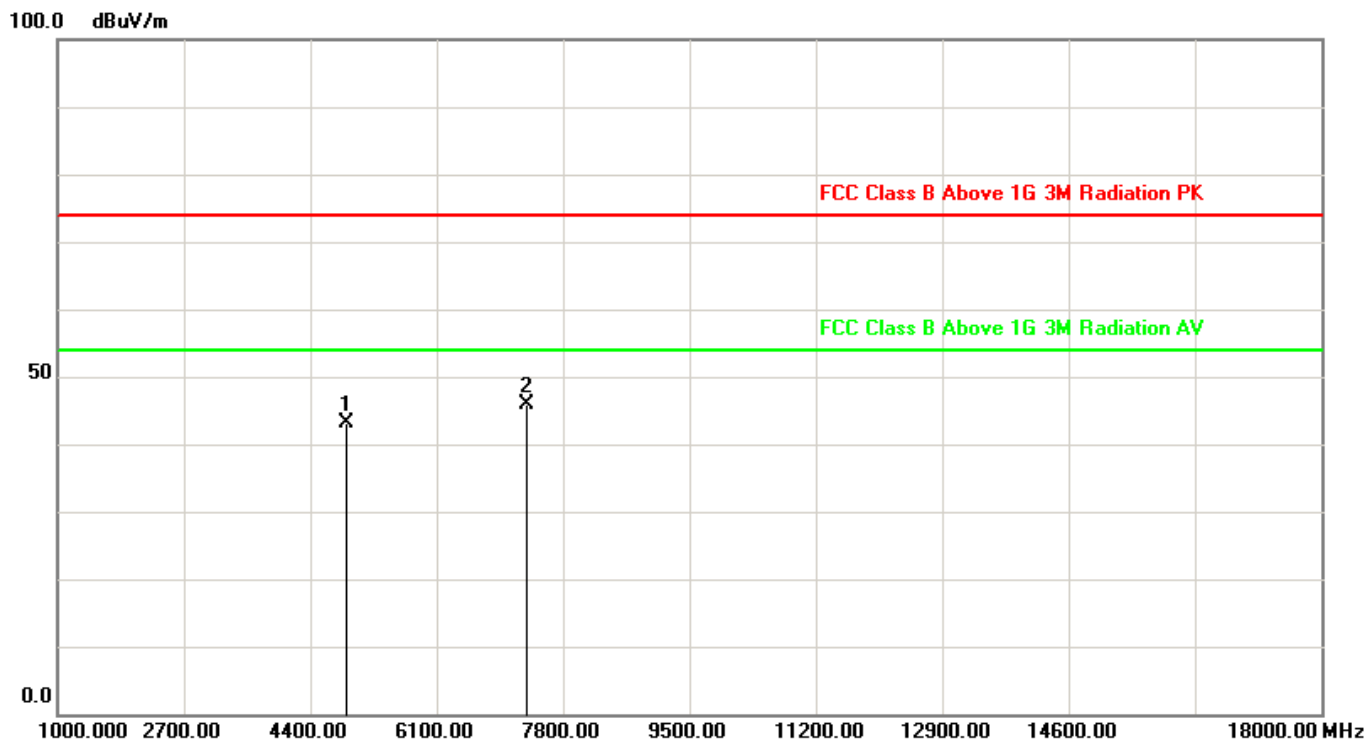
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	45.56	41.72	74.00	-32.28	peak
2	7323.000	0.82	46.40	47.22	74.00	-26.78	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2441MHz	



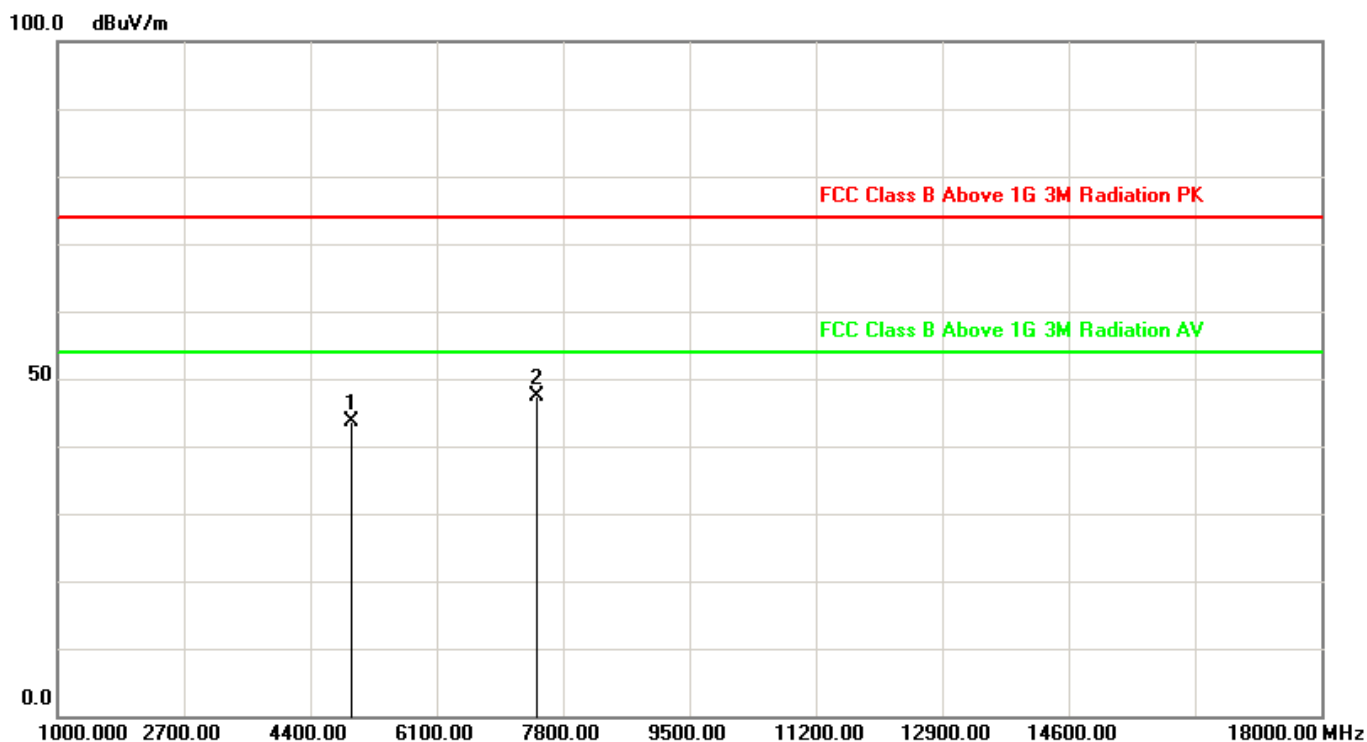
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	46.97	43.13	74.00	-30.87	peak
2	7323.000	0.82	45.00	45.82	74.00	-28.18	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2480MHz	



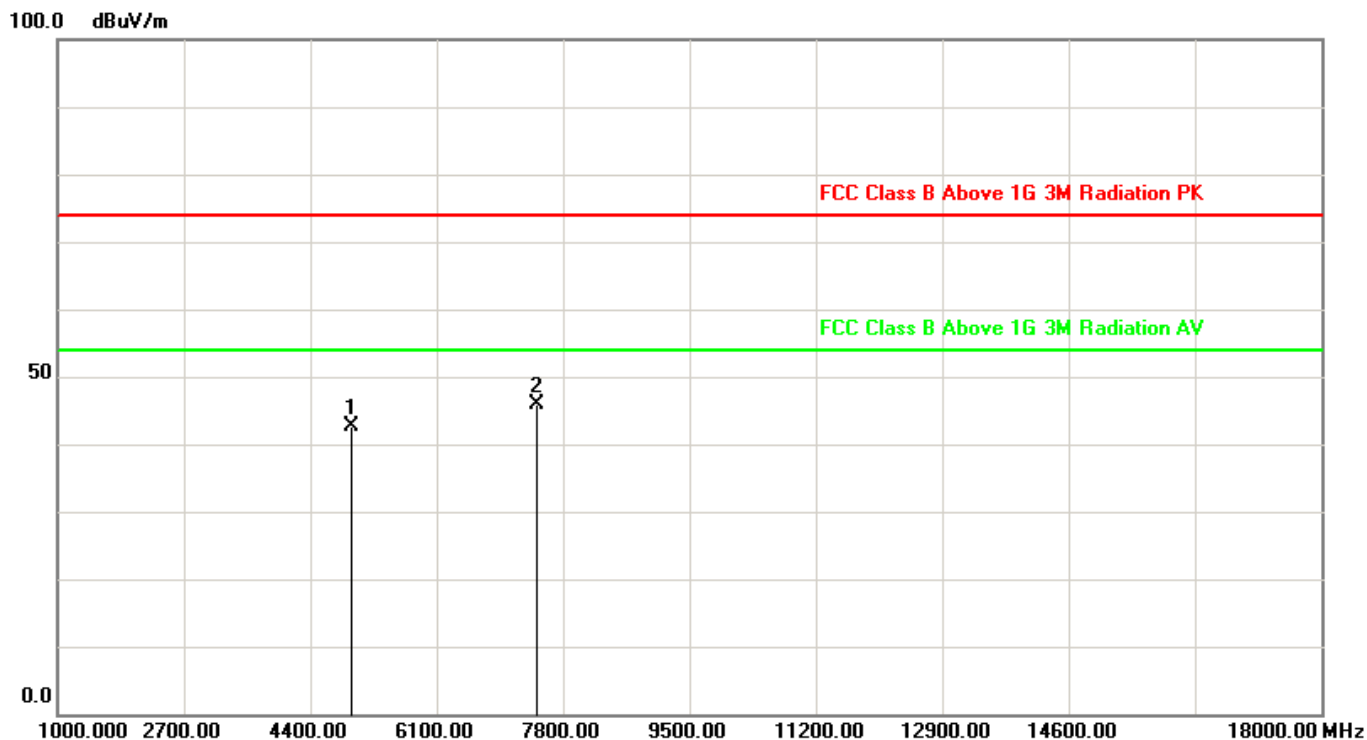
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	47.33	43.54	74.00	-30.46	peak
2	7440.000	1.10	46.17	47.27	74.00	-26.73	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode1: Transmit DH5 at 2480MHz	



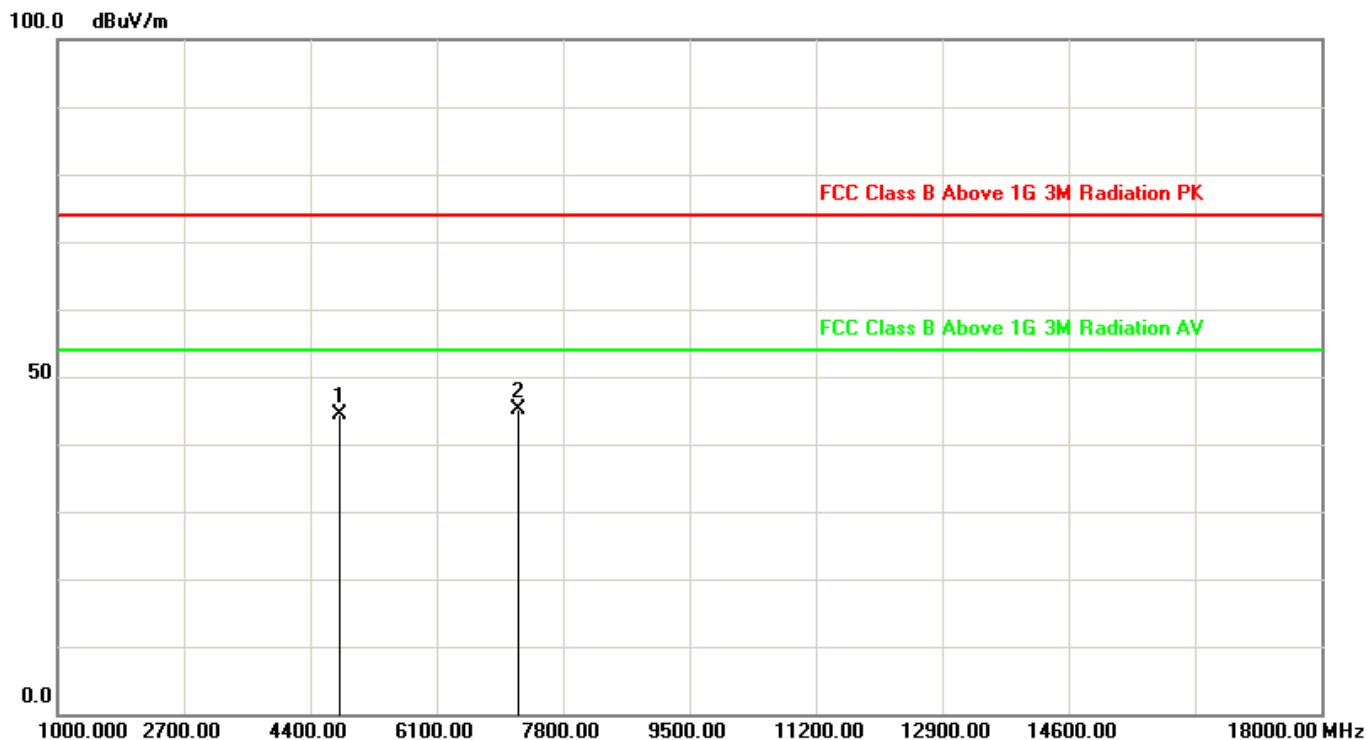
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	46.47	42.68	74.00	-31.32	peak
2	7440.000	1.10	44.70	45.80	74.00	-28.20	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2402MHz	



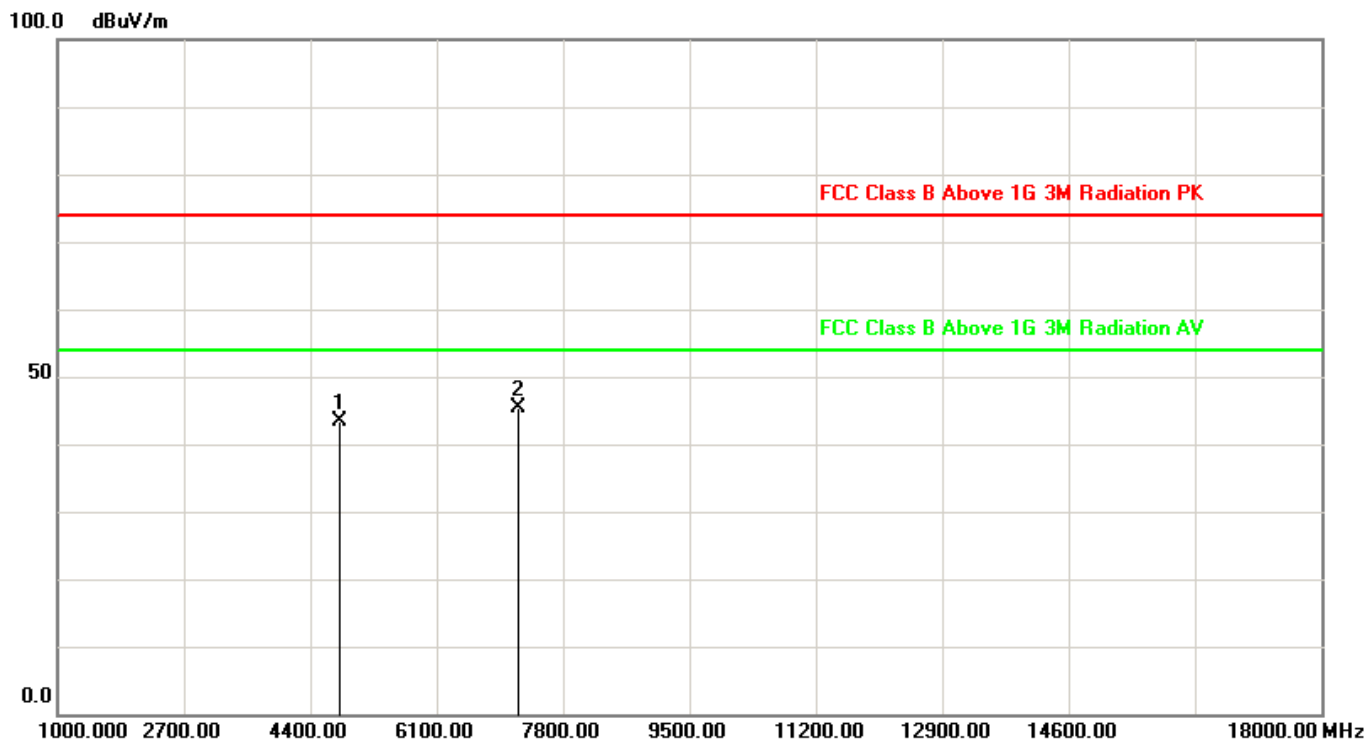
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	48.35	44.46	74.00	-29.54	peak
2	7206.000	0.54	44.47	45.01	74.00	-28.99	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2402MHz	



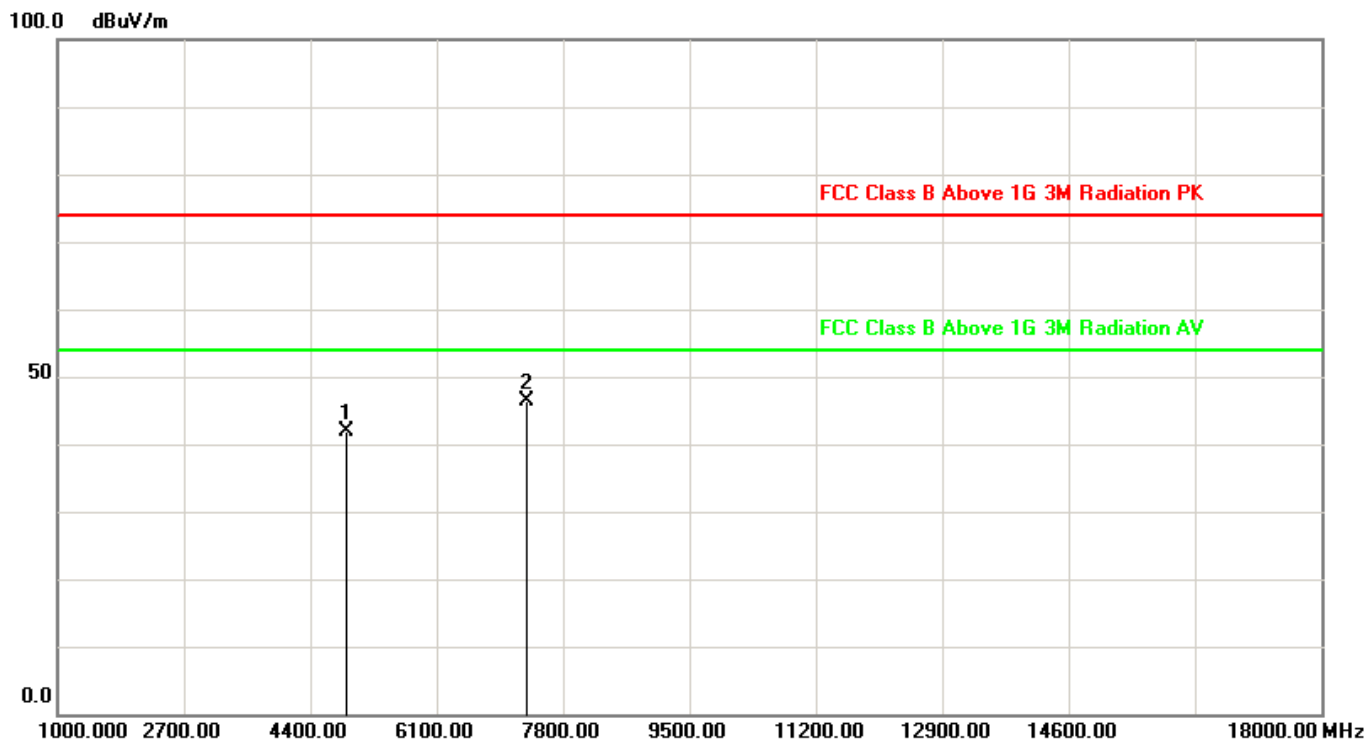
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	47.20	43.31	74.00	-30.69	peak
2	7206.000	0.54	44.91	45.45	74.00	-28.55	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2441MHz	



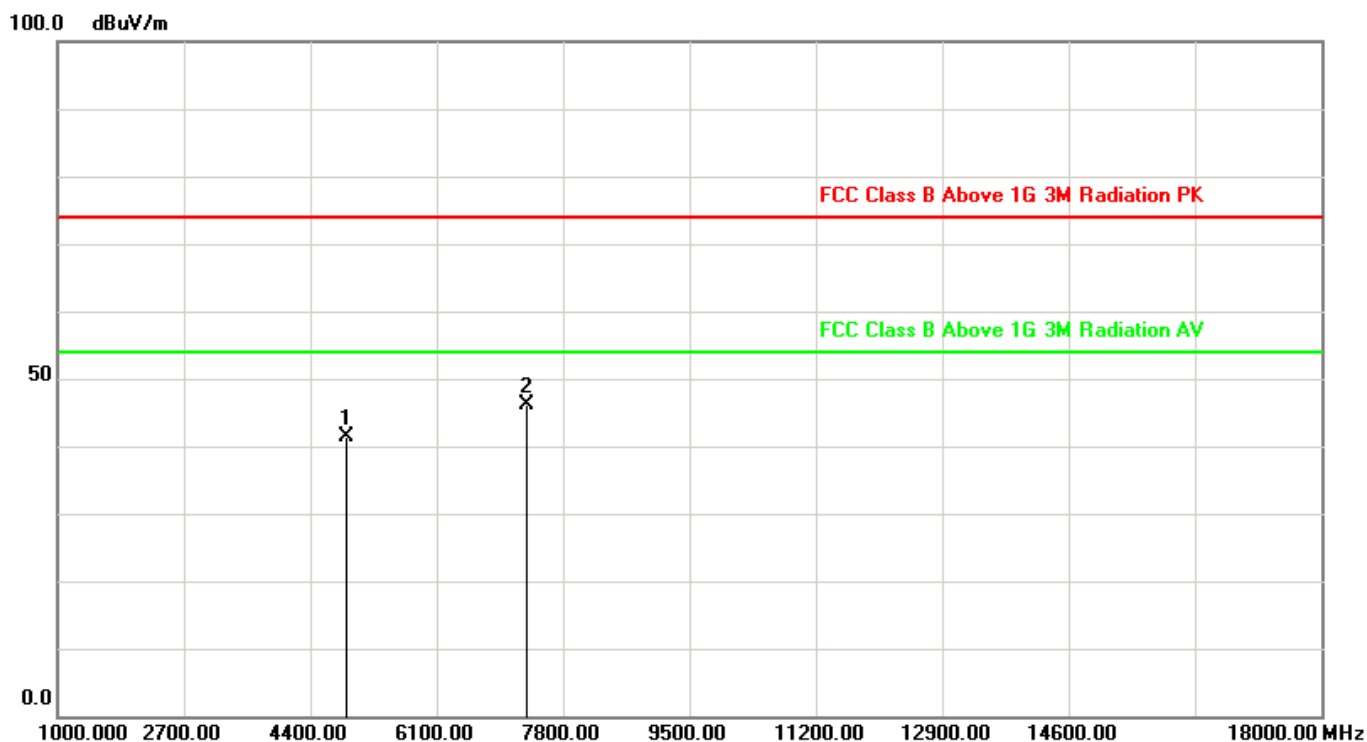
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	45.83	41.99	74.00	-32.01	peak
2	7323.000	0.82	45.52	46.34	74.00	-27.66	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2441MHz	



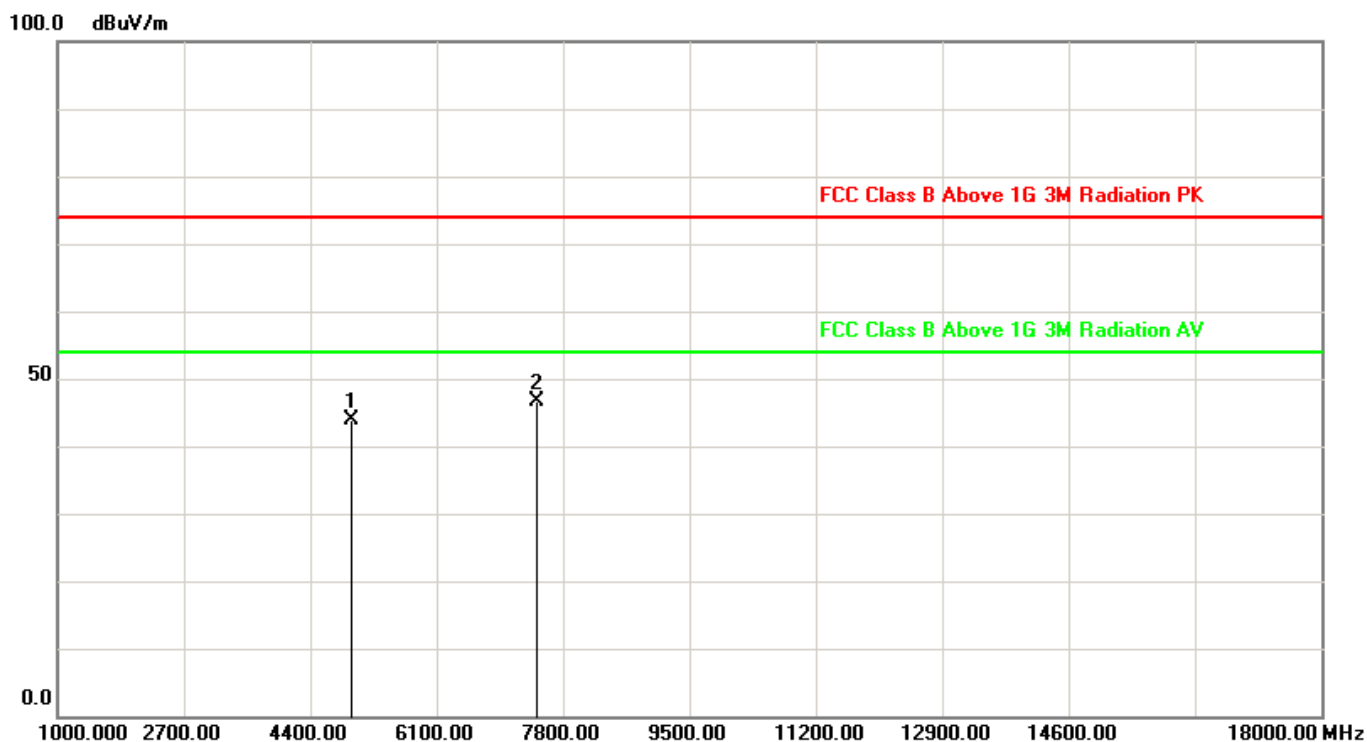
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	45.15	41.31	74.00	-32.69	peak
2	7323.000	0.82	45.25	46.07	74.00	-27.93	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2480MHz	



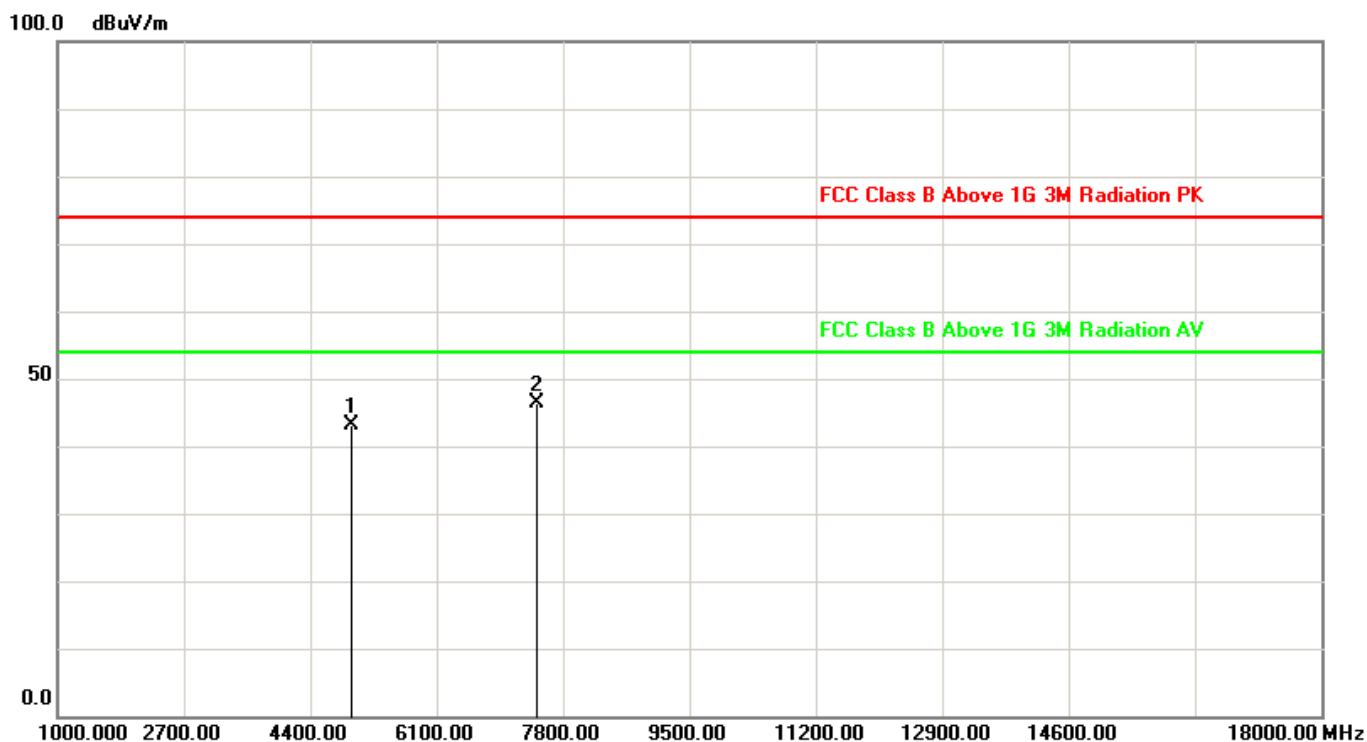
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	47.69	43.90	74.00	-30.10	peak
2	7440.000	1.10	45.60	46.70	74.00	-27.30	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode2: Transmit 2DH5 at 2480MHz	



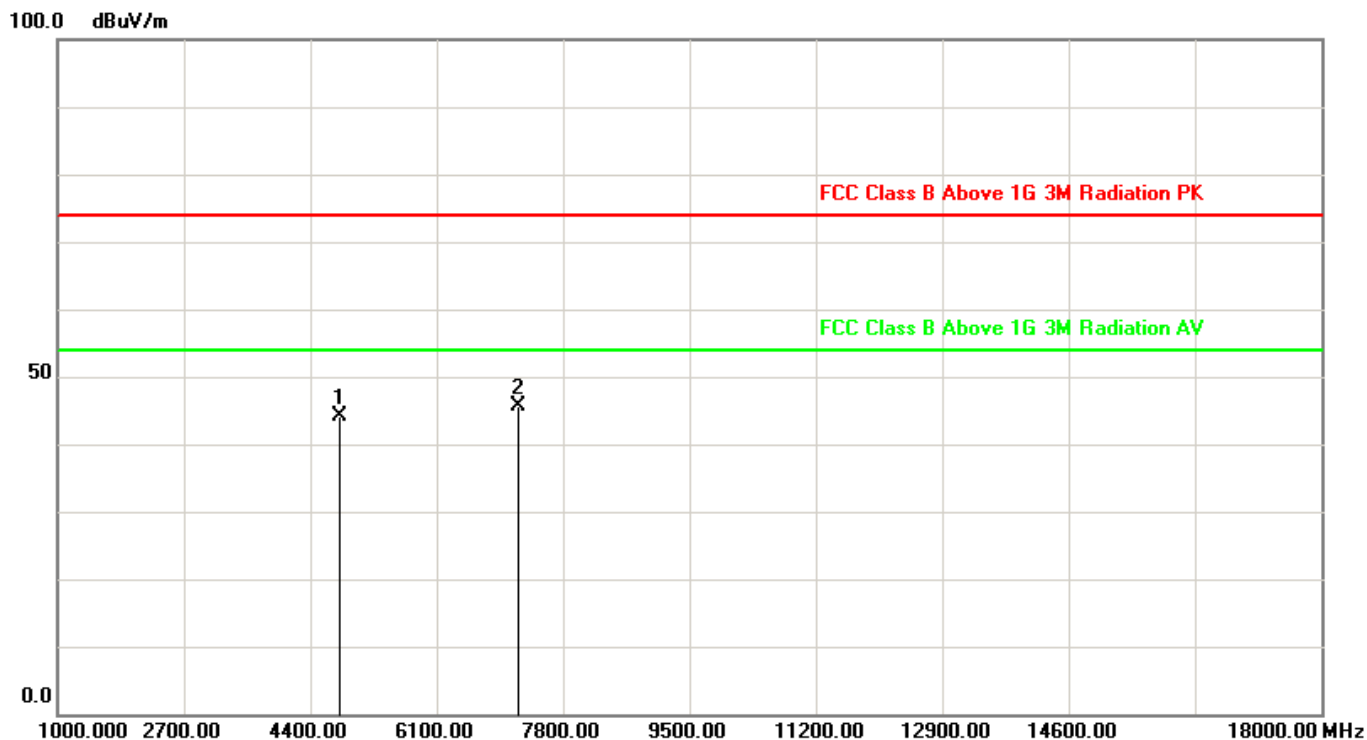
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	47.02	43.23	74.00	-30.77	peak
2	7440.000	1.10	45.33	46.43	74.00	-27.57	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2402MHz	



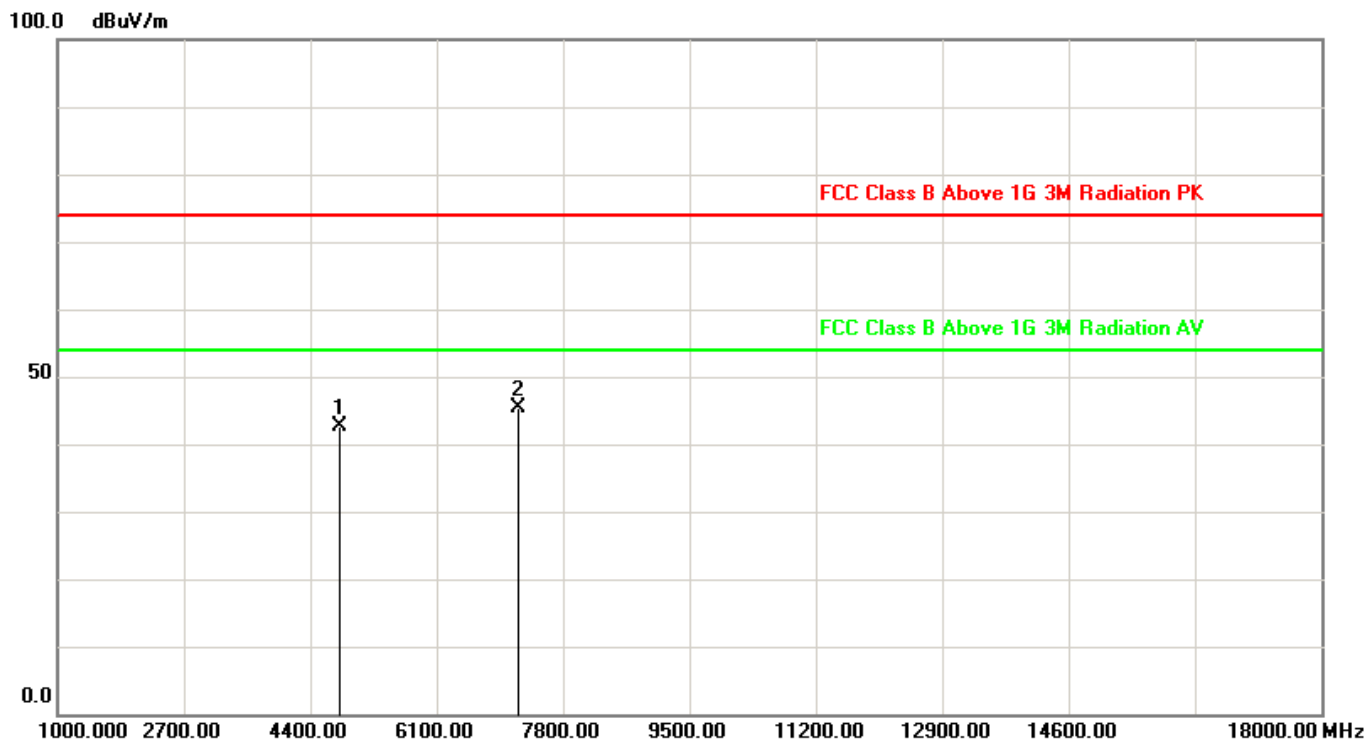
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	47.94	44.05	74.00	-29.95	peak
2	7206.000	0.54	45.15	45.69	74.00	-28.31	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2402MHz	



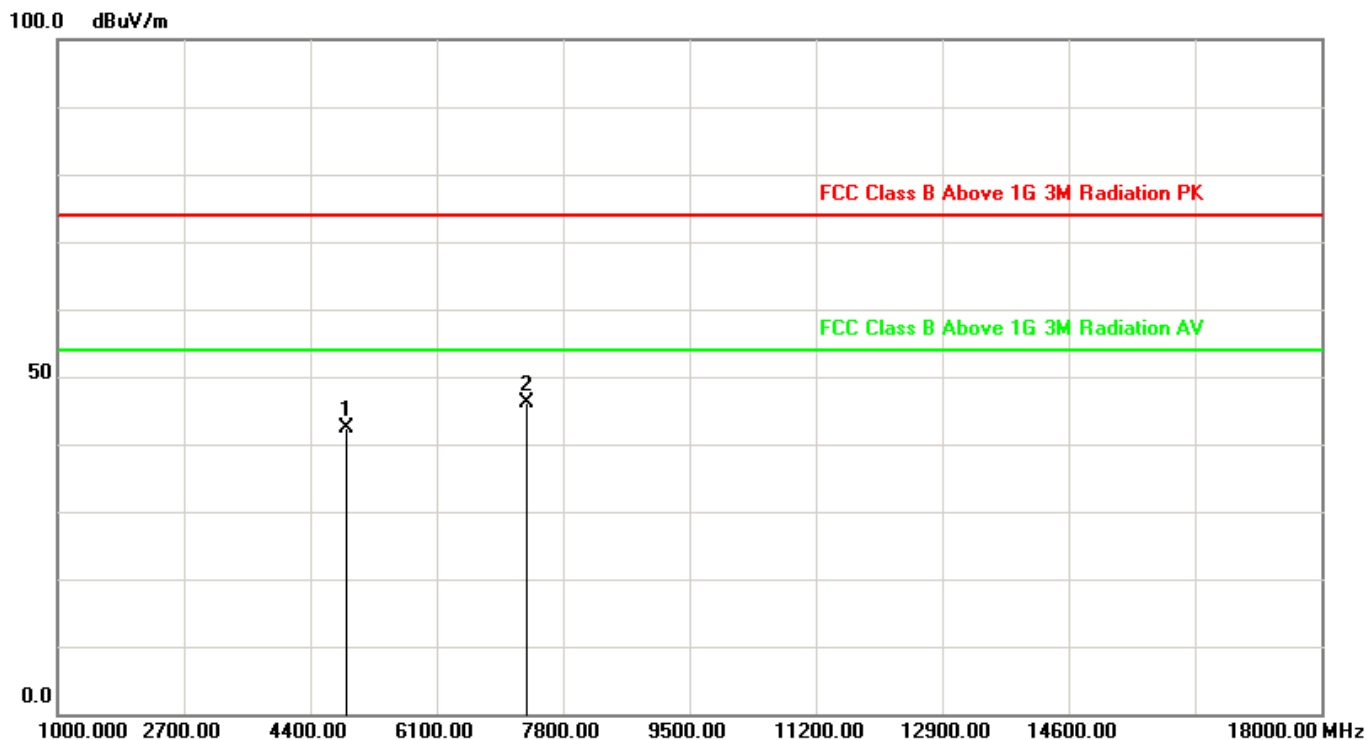
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4804.000	-3.89	46.59	42.70	74.00	-31.30	peak
2	7206.000	0.54	44.84	45.38	74.00	-28.62	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2441MHz	



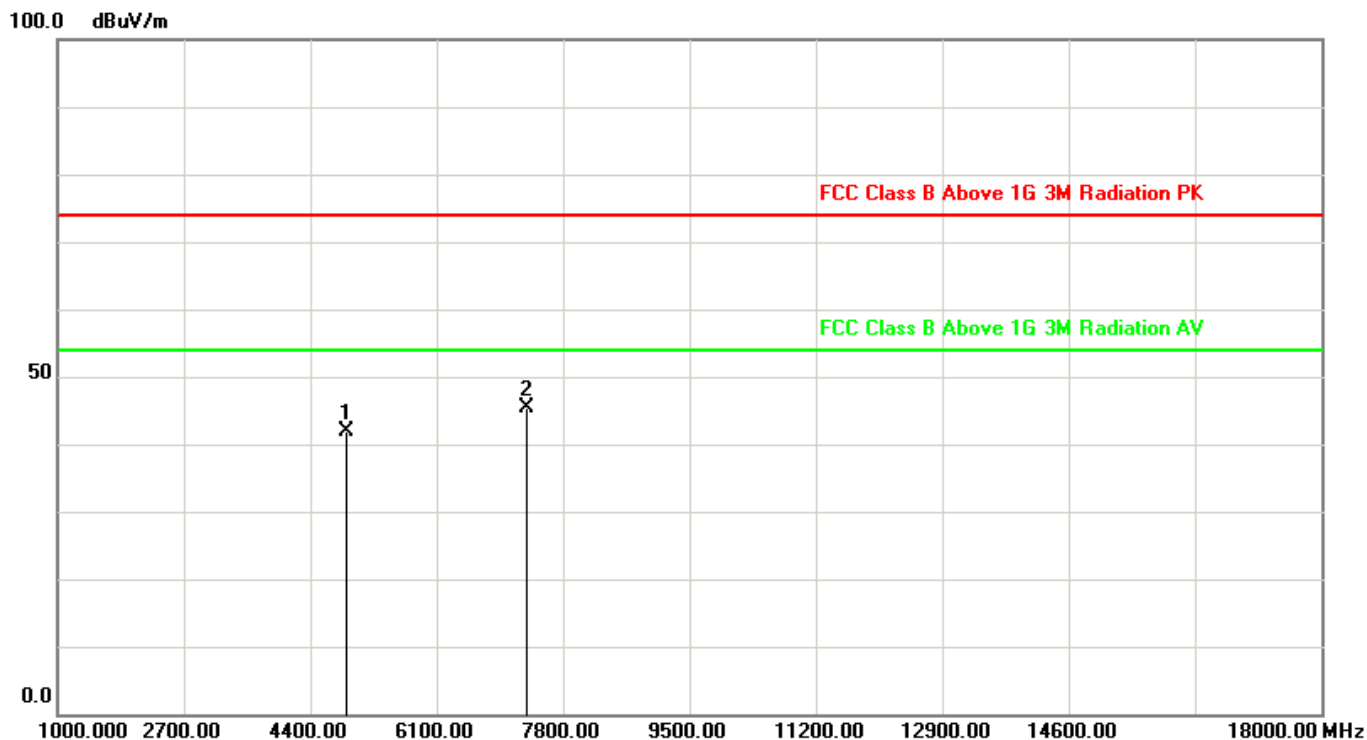
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	46.33	42.49	74.00	-31.51	peak
2	7323.000	0.82	45.27	46.09	74.00	-27.91	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2441MHz	



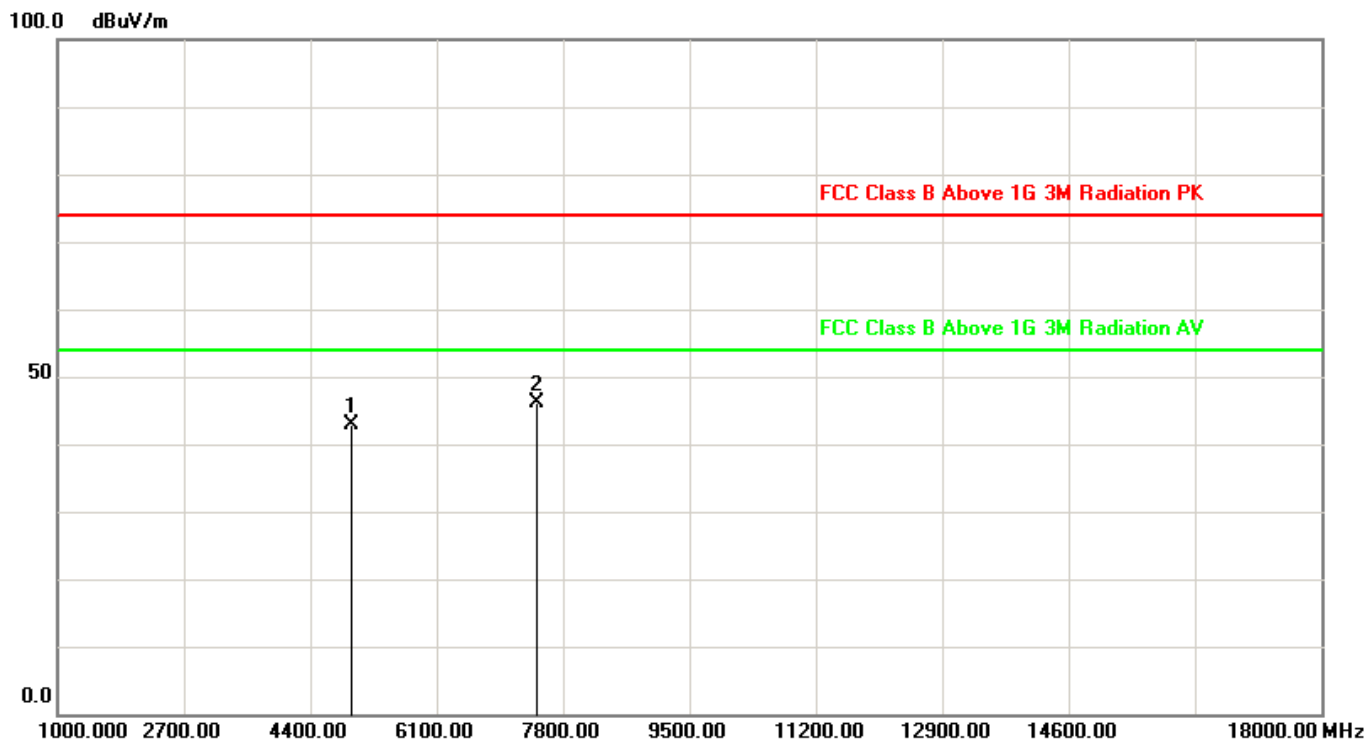
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4882.000	-3.84	45.60	41.76	74.00	-32.24	peak
2	7323.000	0.82	44.59	45.41	74.00	-28.59	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode3: Transmit 3DH5 at 2480MHz	



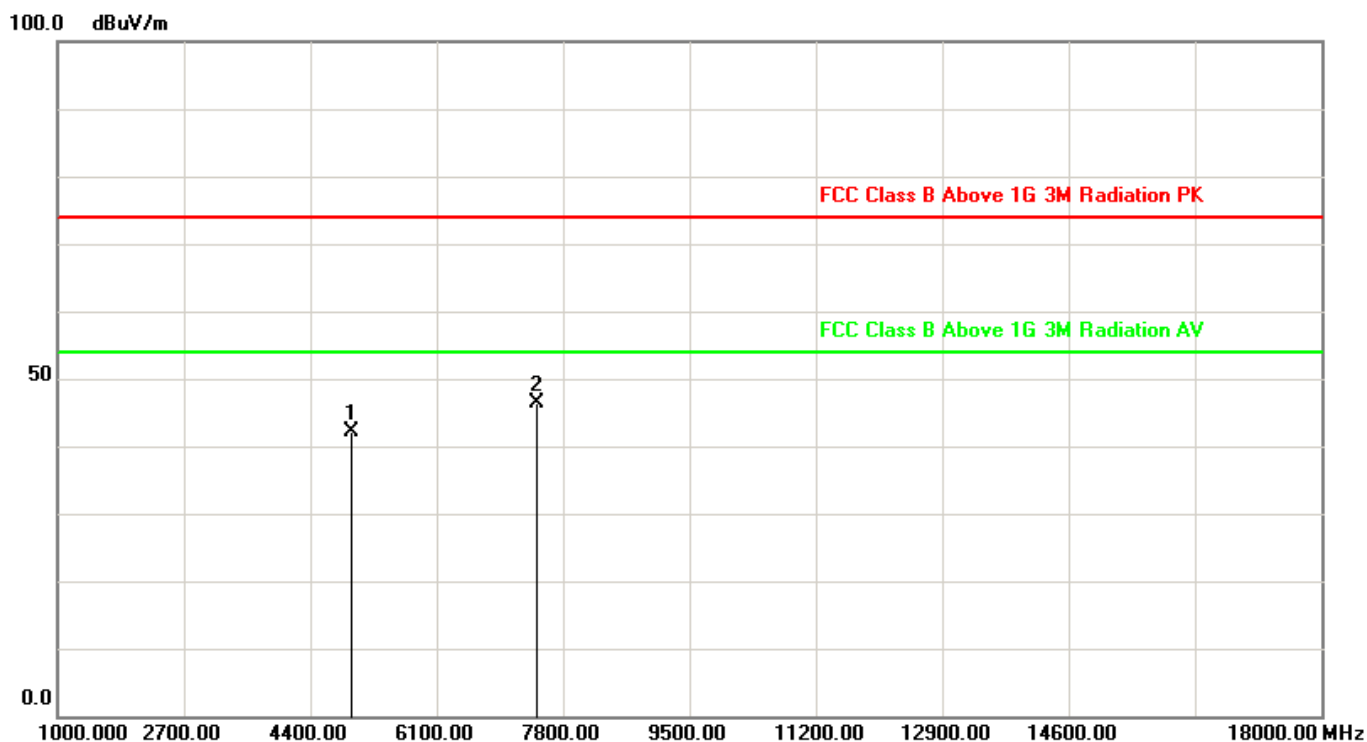
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4960.000	-3.79	46.72	42.93	74.00	-31.07	peak
2	7440.000	1.10	45.11	46.21	74.00	-27.79	peak

Note: Measure Level (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: 2016/10/20
Limit: FCC_PART15.209_RE(3M)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	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.



7. 20dB Bandwidth Measurement

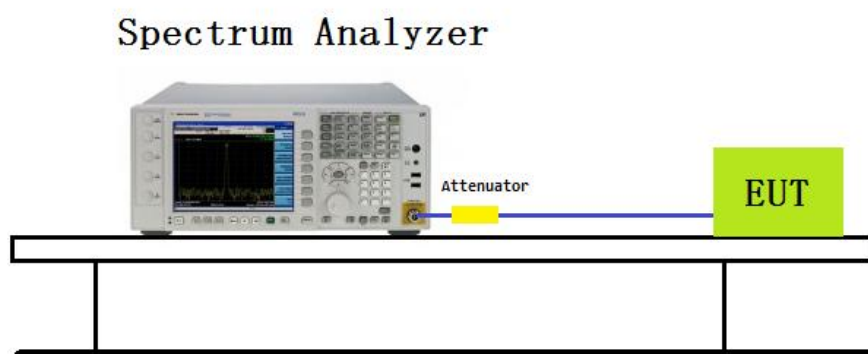
7.1 Test Limit

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. 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.

7.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 30 KHz and VBW to 100 KHz.
- The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

7.3 Test Setup Layout

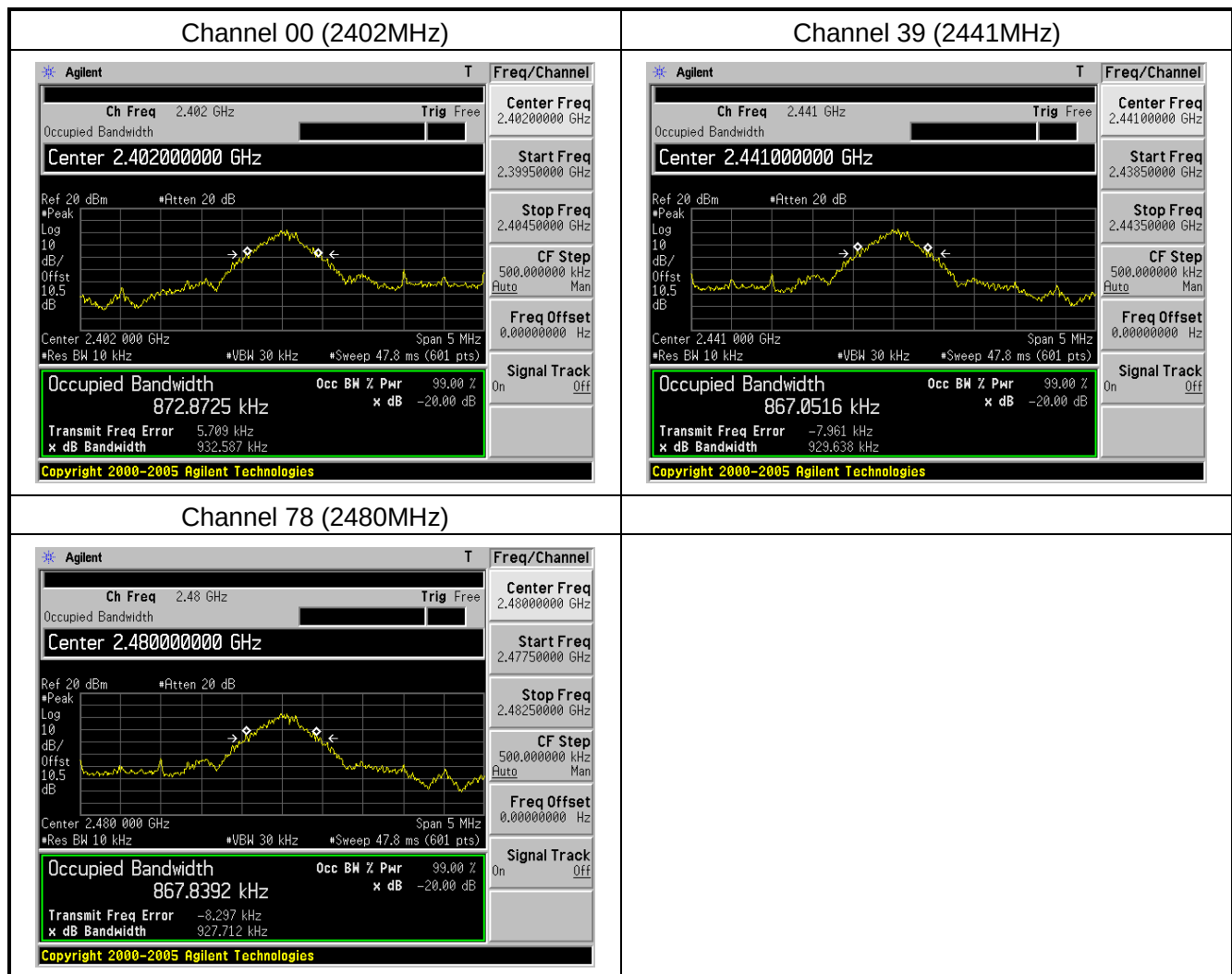




7.4 Test Result and Data

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

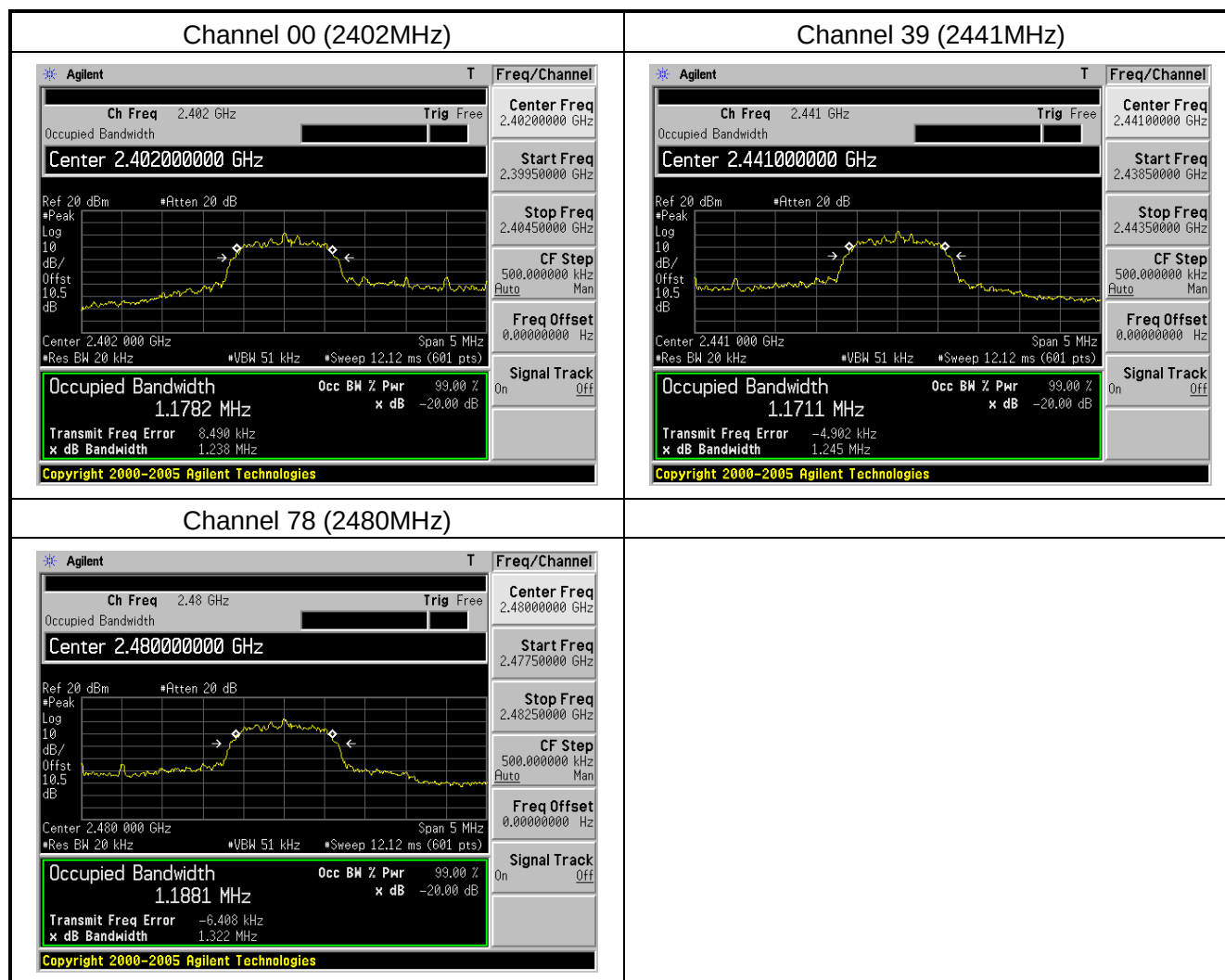
Channel No.	Frequency(MHz)	20dB Bandwidth(kHz)	99% Bandwidth(kHz)
00	2402	932.59	872.87
39	2441	929.64	867.05
78	2480	927.71	867.84





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

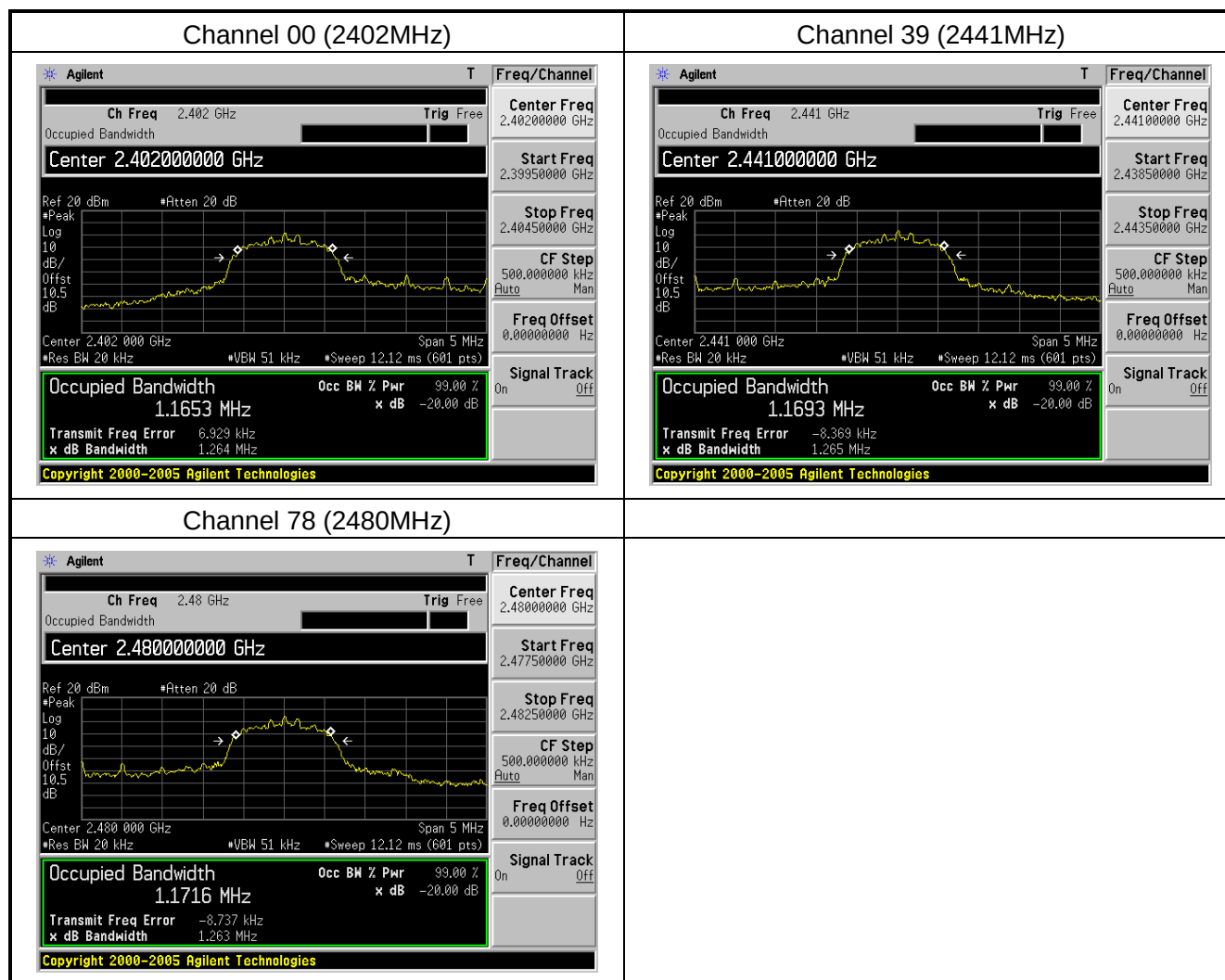
Channel No.	Frequency(MHz)	20dB Bandwidth(kHz)	99% Bandwidth(kHz)
00	2402	1238.0	1178.2
39	2441	1245.0	1171.1
78	2480	1322.0	1188.1





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

Channel No.	Frequency(MHz)	20dB Bandwidth(kHz)	99% Bandwidth(kHz)
00	2402	1264.0	1165.3
39	2441	1265.0	1169.3
78	2480	1263.0	1171.6



8. Channel Carrier Frequencies Separation Measurement

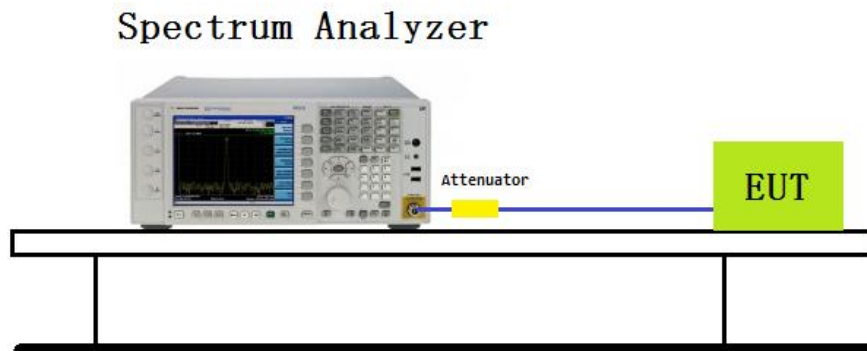
8.1 Test Limit

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.

8.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 30 KHz and VBW to 100 KHz.
- By using the MaxHold function record the separation of two adjacent channels.
- Measure the frequency difference of these two adjacent channels.

8.3 Test Setup Layout

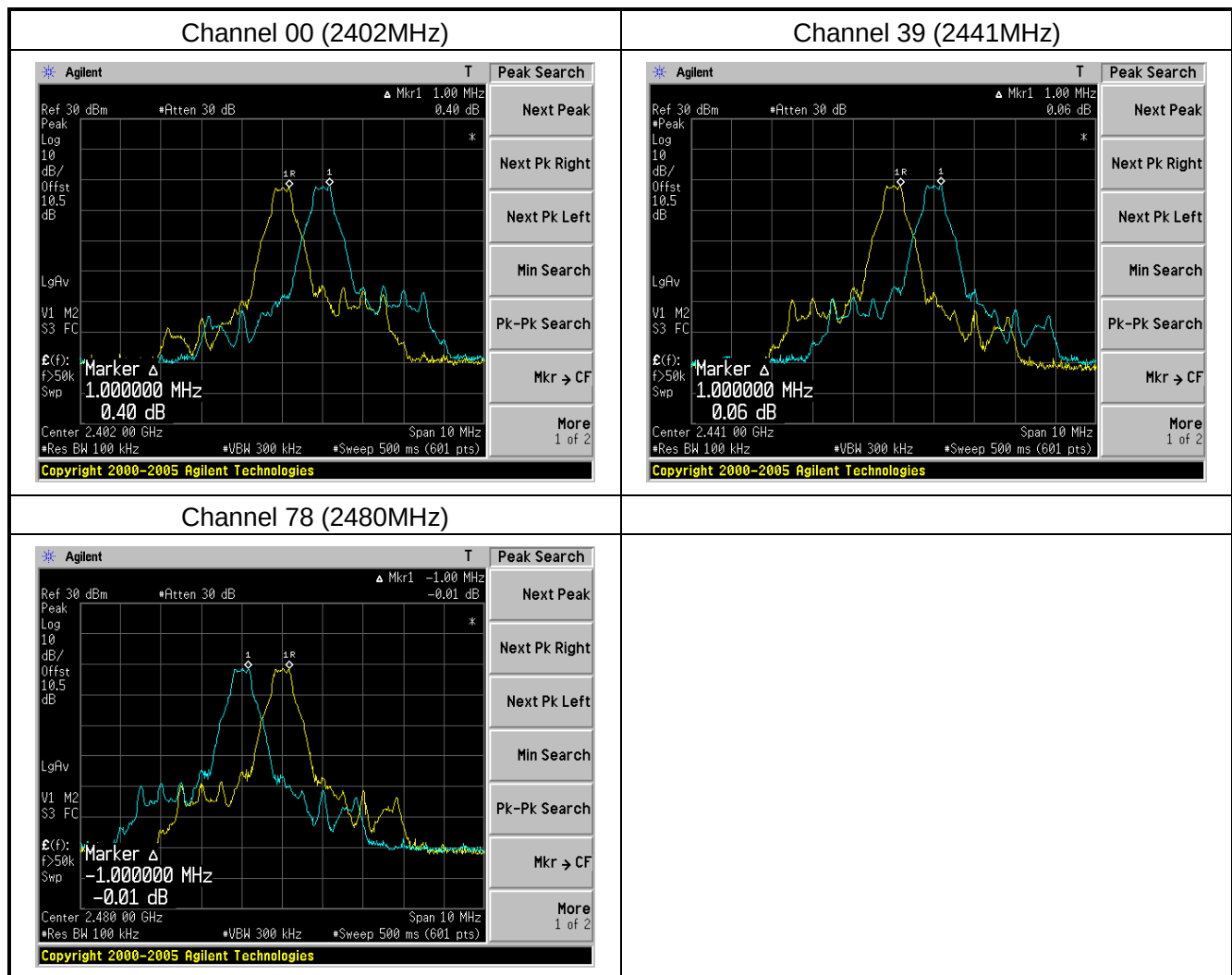




8.4 Test Result and Data

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

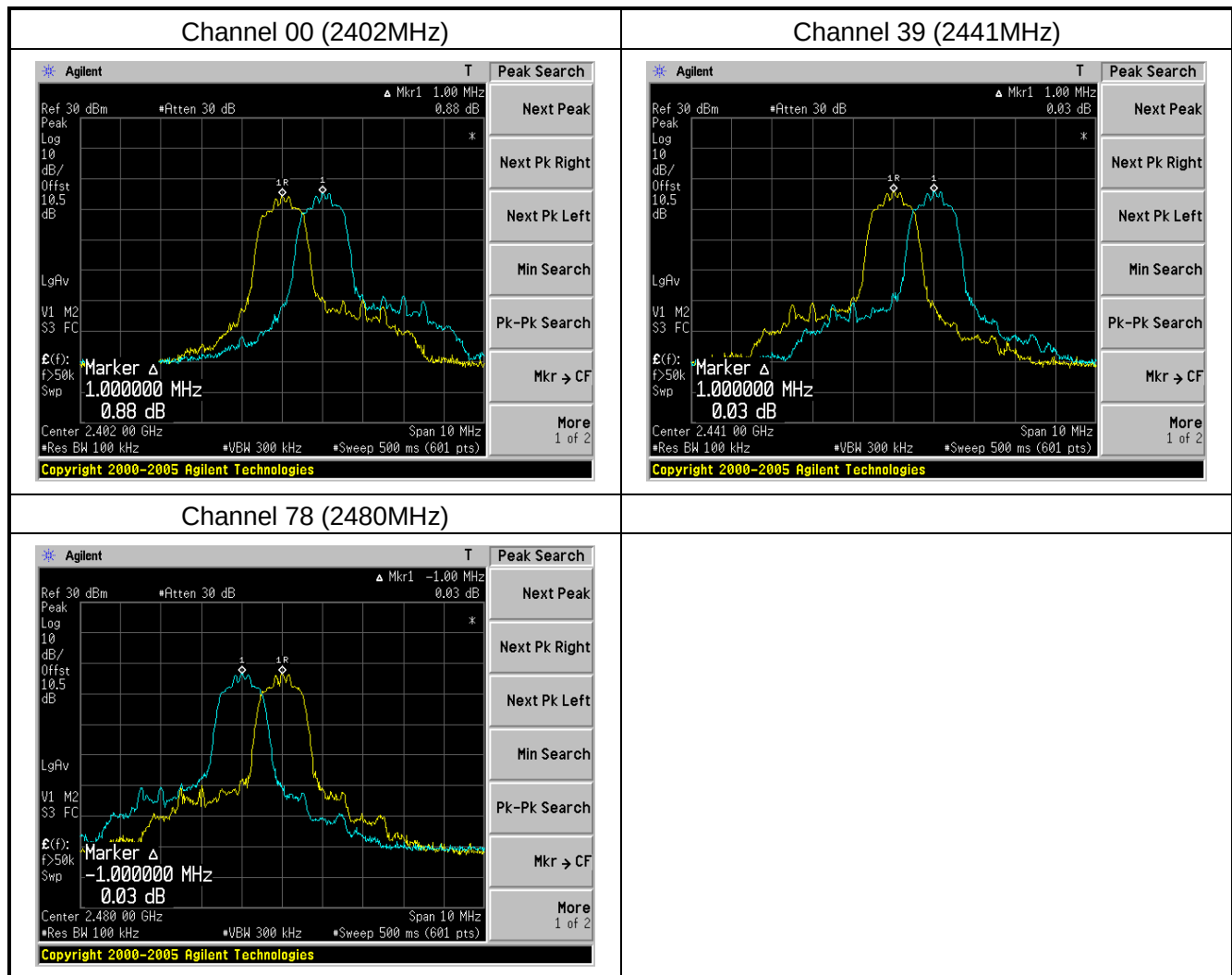
Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
00	2402	1000	>25 kHz or 2/3 of 20 dB BW	Pass
39	2441	1000	>25 kHz or 2/3 of 20 dB BW	Pass
78	2480	1000	>25 kHz or 2/3 of 20 dB BW	Pass





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

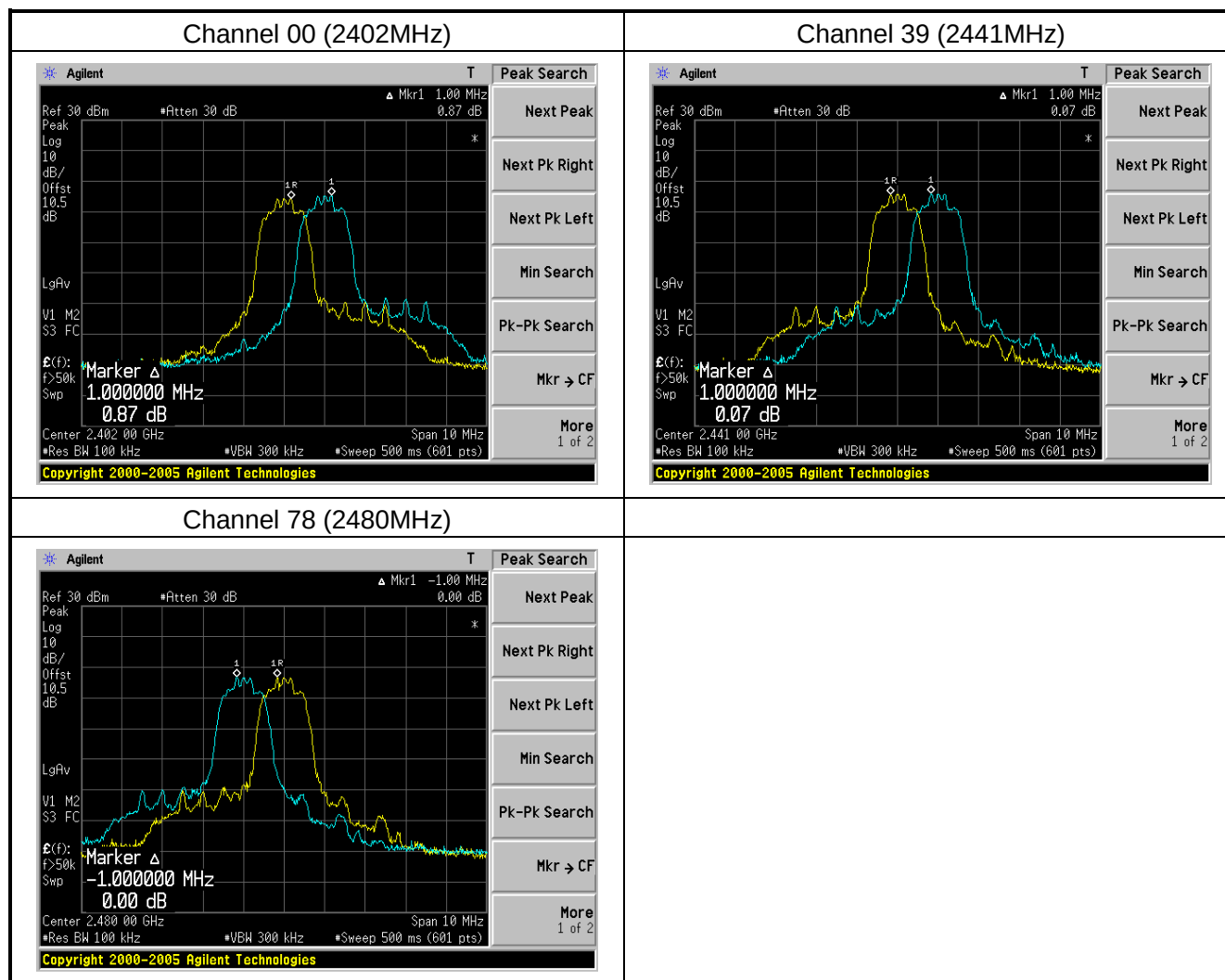
Channel No.	Frequency (MHz)	Carrier Frequency Separation(kHz)	Limit (kHz)	Result
00	2402	1000	>25 kHz or 2/3 of 20 dB BW	Pass
39	2441	1000	>25 kHz or 2/3 of 20 dB BW	Pass
78	2480	1000	>25 kHz or 2/3 of 20 dB BW	Pass





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



9. Dwell Time Measurement

9.1 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.

9.2 Test Standard

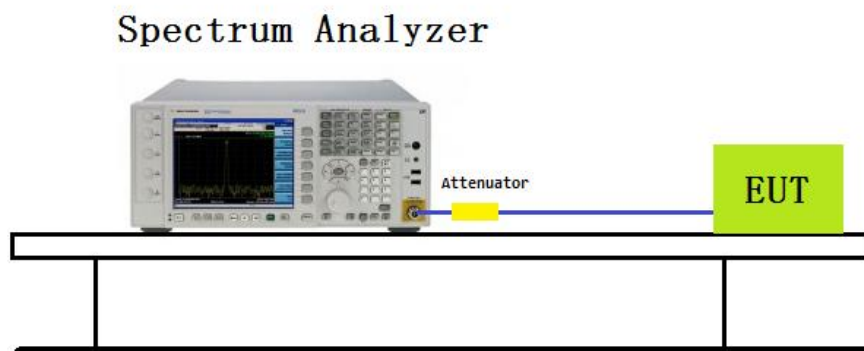
ANSI C63.10-2013- Section 7.8.3

9.3 Test Setup

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- Span: Zero span, centered on a hopping channel.
- RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel.
- Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- Detector function: Peak
- Trace: Max hold

9.4 Test Setup Layout





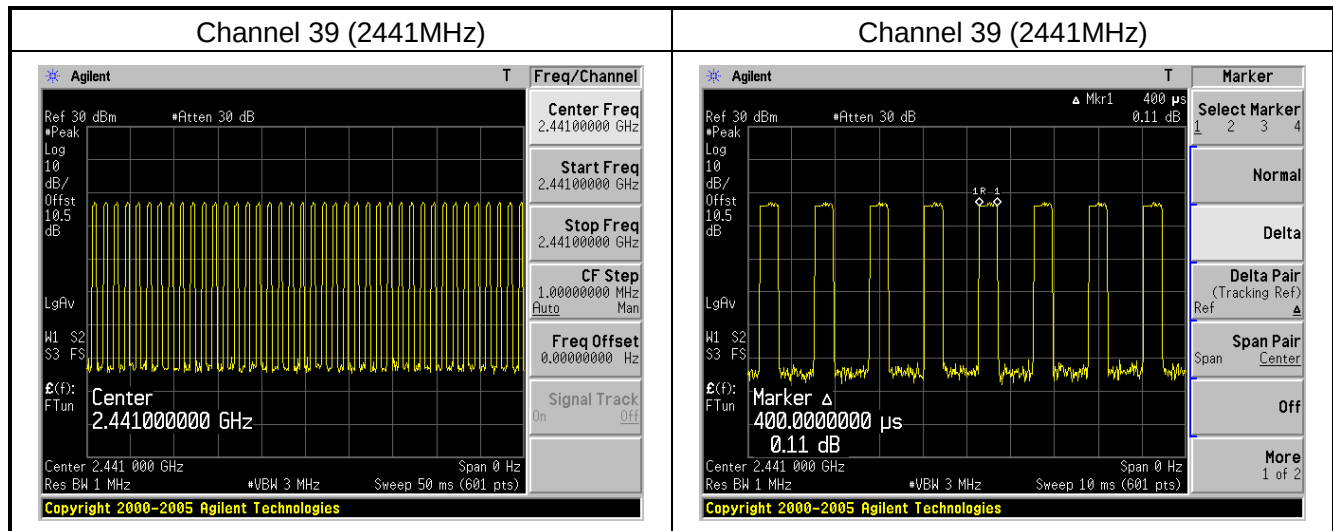
9.5 Test Result and Data

Test Item	:	Time of Occupancy (Dwell Time)
Test Mode	:	Transmit by 3DH1

Channel No.	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
39	2441	128.00	< 400	Pass

Test Time Period: $0.4 \times 79 = 31.6 \text{ sec}$, Hopping Times Within 1sec: $40/50 \text{ msec} = 800 \text{ hops/sec}$.

2441MHz, The Maximum Occupancy Time Within 31.6sec: $[(400 \mu\text{s} \times 800)/79] \times 31.6 = 128.00 \text{ msec}$



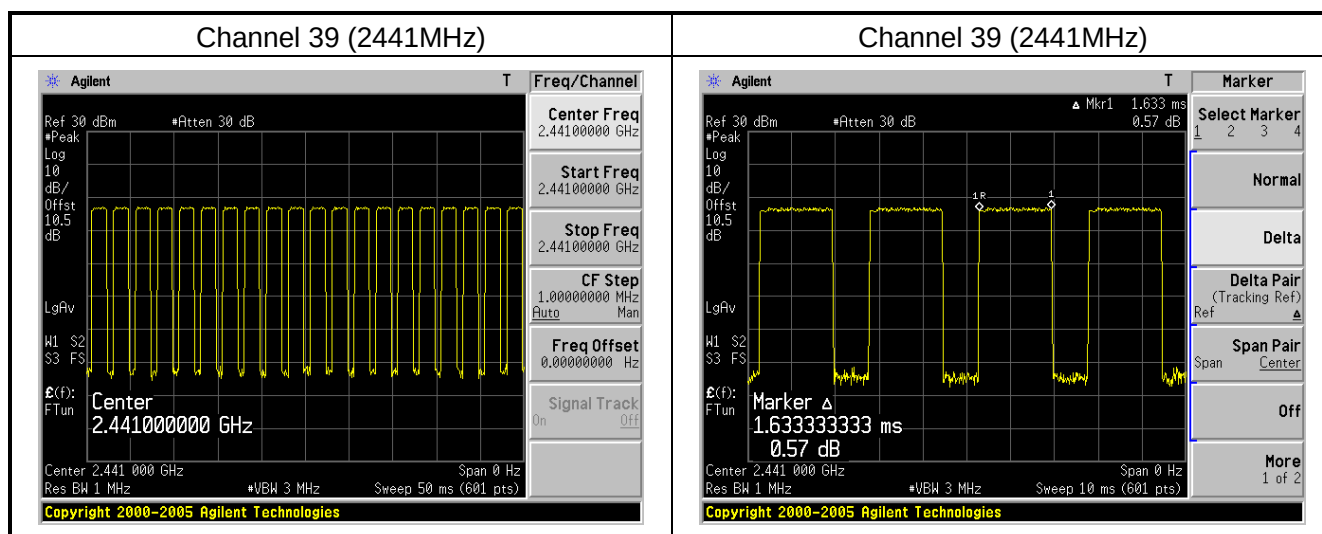


Test Item	:	Time of Occupancy (Dwell Time)
Test Mode	:	Transmit by 3DH3

Channel No.	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
39	2441	261.28	< 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: $[(1.633 \text{ ms} \times 400)/79] \times 31.6 = 261.28 \text{ msec}$



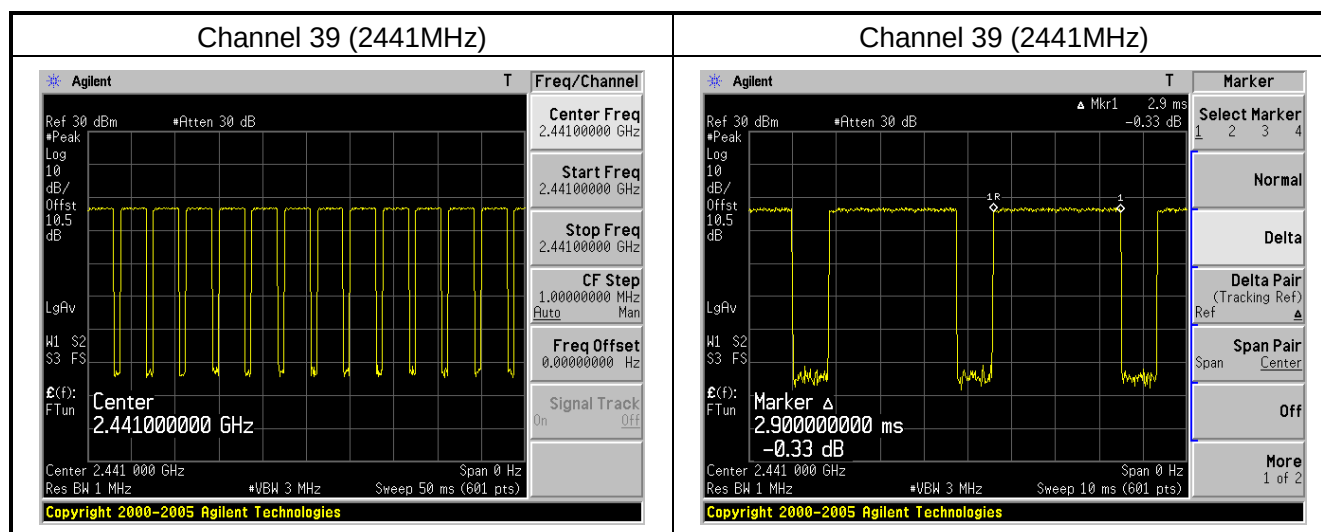


Test Item	:	Time of Occupancy (Dwell Time)
Test Mode	:	Transmit by 3DH5

Channel No.	Frequency (MHz)	Time of Occupancy (ms)	Limit (ms)	Result
39	2441	301.60	< 400	Pass

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

2441MHz, The Maximum Occupancy Time Within 31.6sec: $[(2.9 \text{ ms} \times 260)/79] \times 31.6 = 301.60 \text{ msec}$



10. Number of Hopping Channels Measurement

10.1 Test Limit

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

10.2 Test Standard

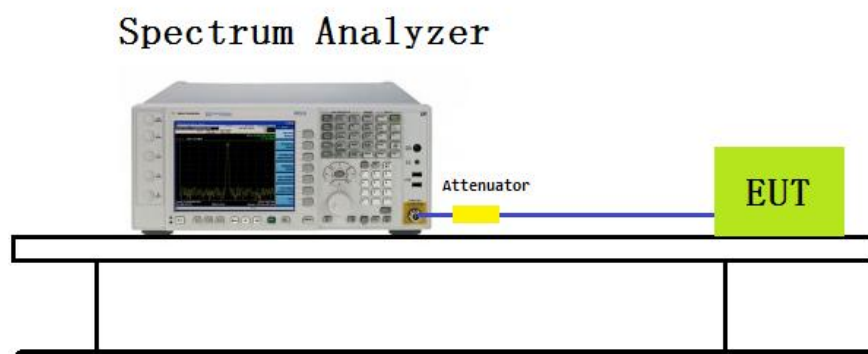
ANSI C63.10-2013- Section 7.8.3

10.3 Test Setup

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW $\geq$ RBW
- d) Sweep: Auto
- e) Detector function: Peak
- f) Trace: Max hold
- g) Allow the trace to stabilize

10.4 Test Setup Layout



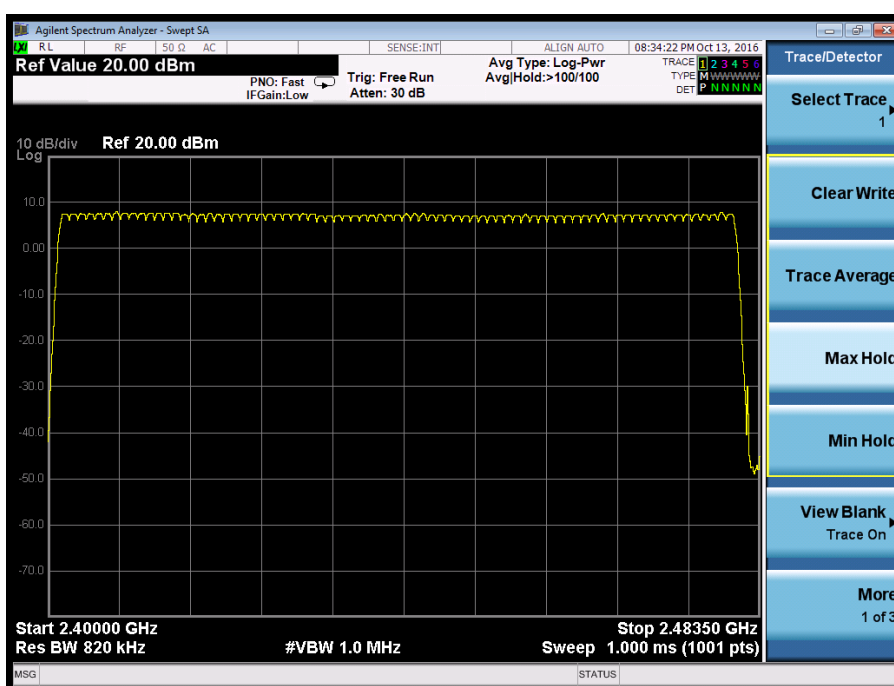


10.5 Test Result and Data

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

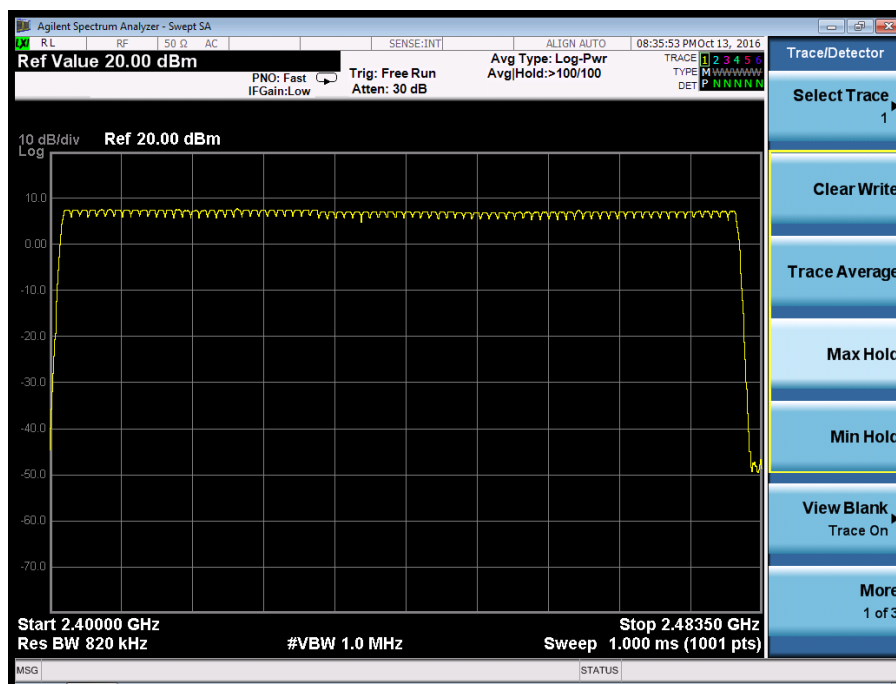
2402 - 2480 MHz





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

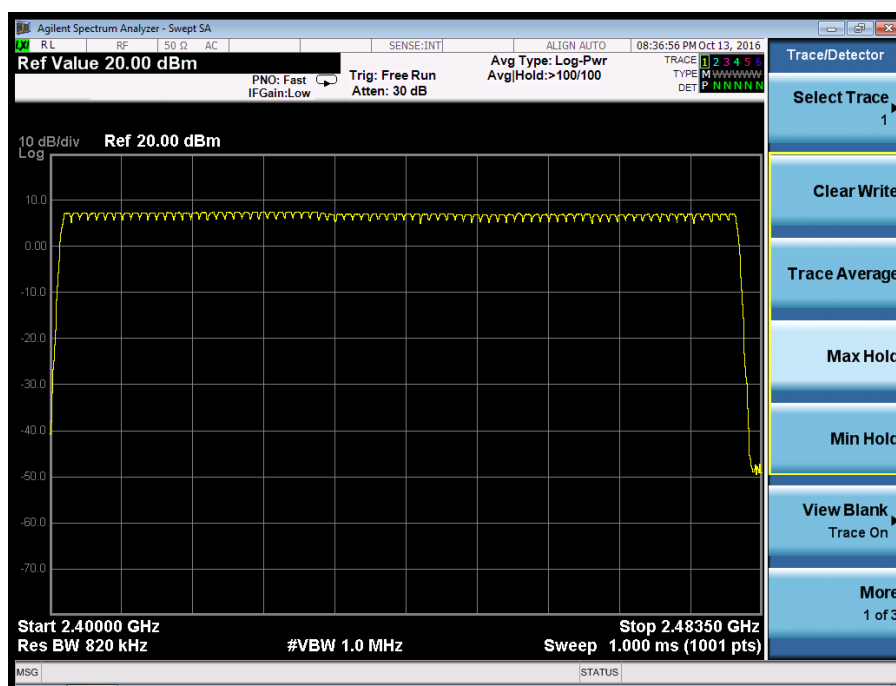
Frequency Band (MHz)	Number of Hopping Frequencies	Limit	Result
2400 - 2483.5	79	>15	Pass

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

11. Peak Output Power Measurement

11.1 Test Limit

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

11.2 Test Standard

ANSI C63.10-2013- Section 7.8.5

11.3 Test Setup

Spectrum analyzer method

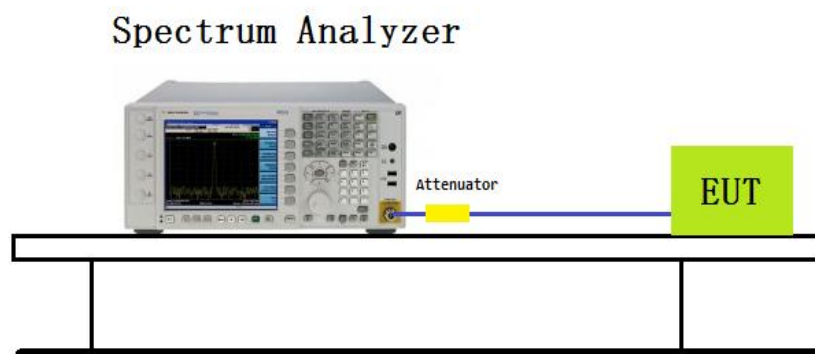
a) Use the following spectrum analyzer settings:

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW $\geq$ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report

Peak power meter method

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

11.4 Test Setup Layout

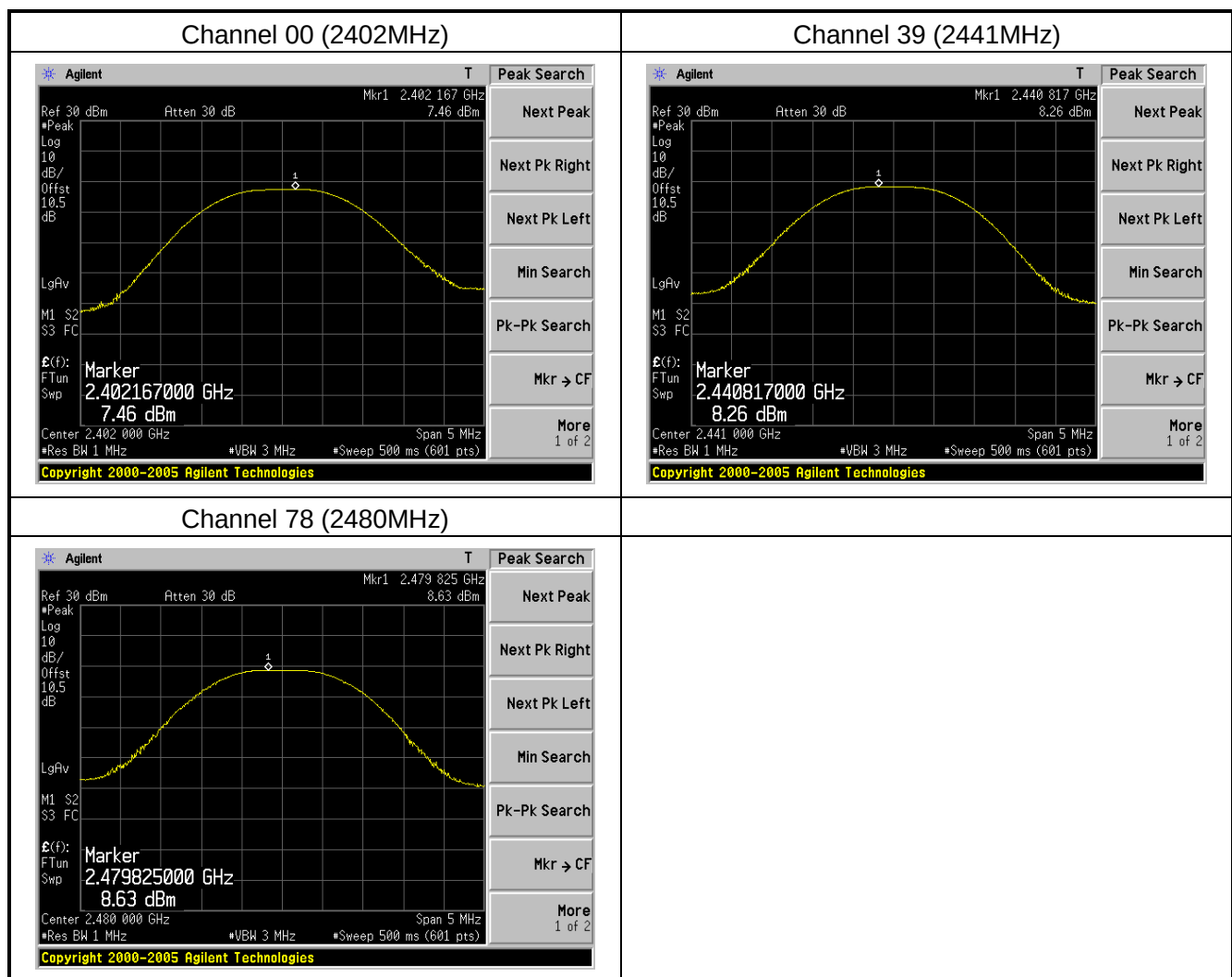




11.5 Test Result and Data

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

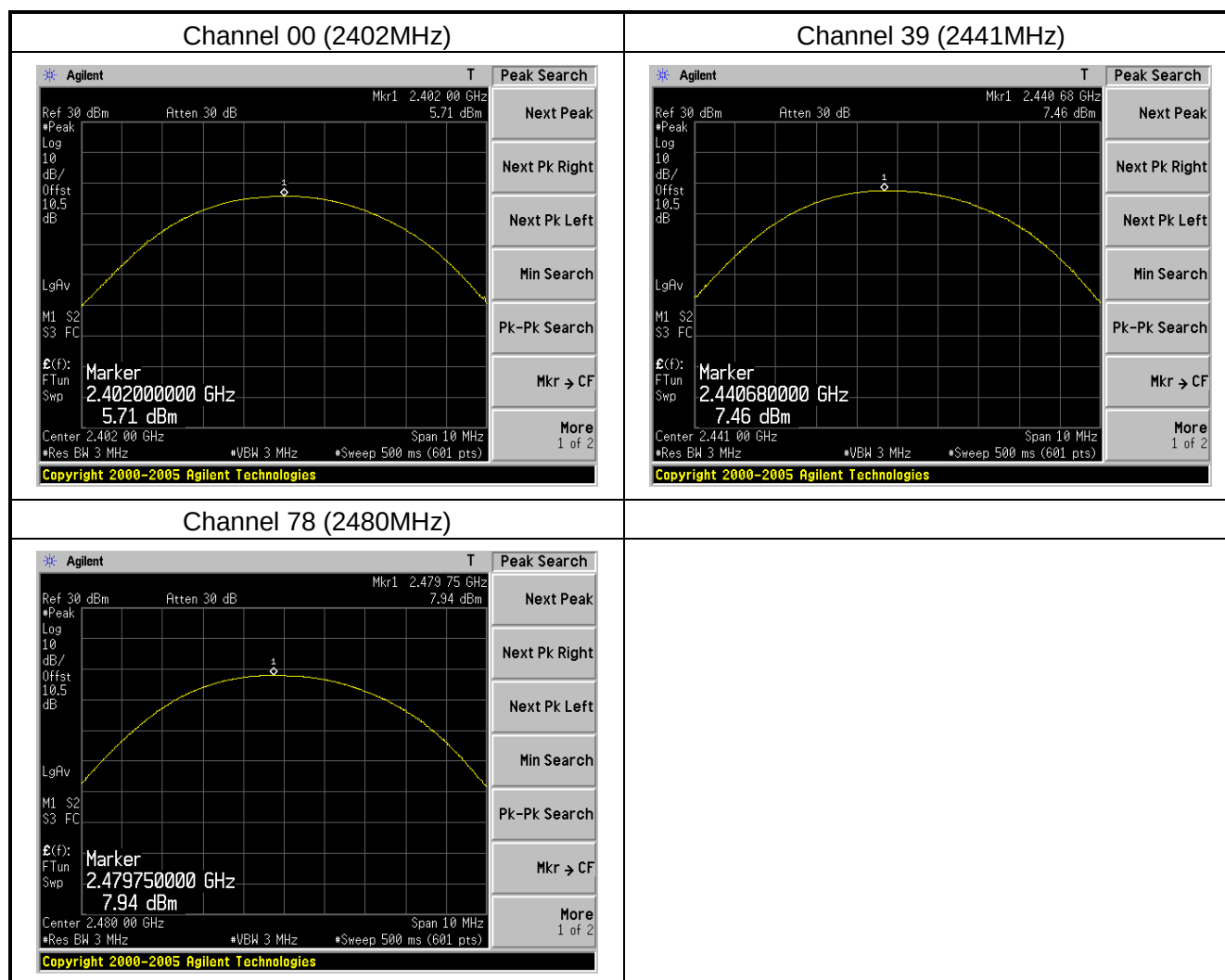
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
0	2402	7.46	20.97	Pass
39	2441	8.26	20.97	Pass
78	2480	8.63	20.97	Pass





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

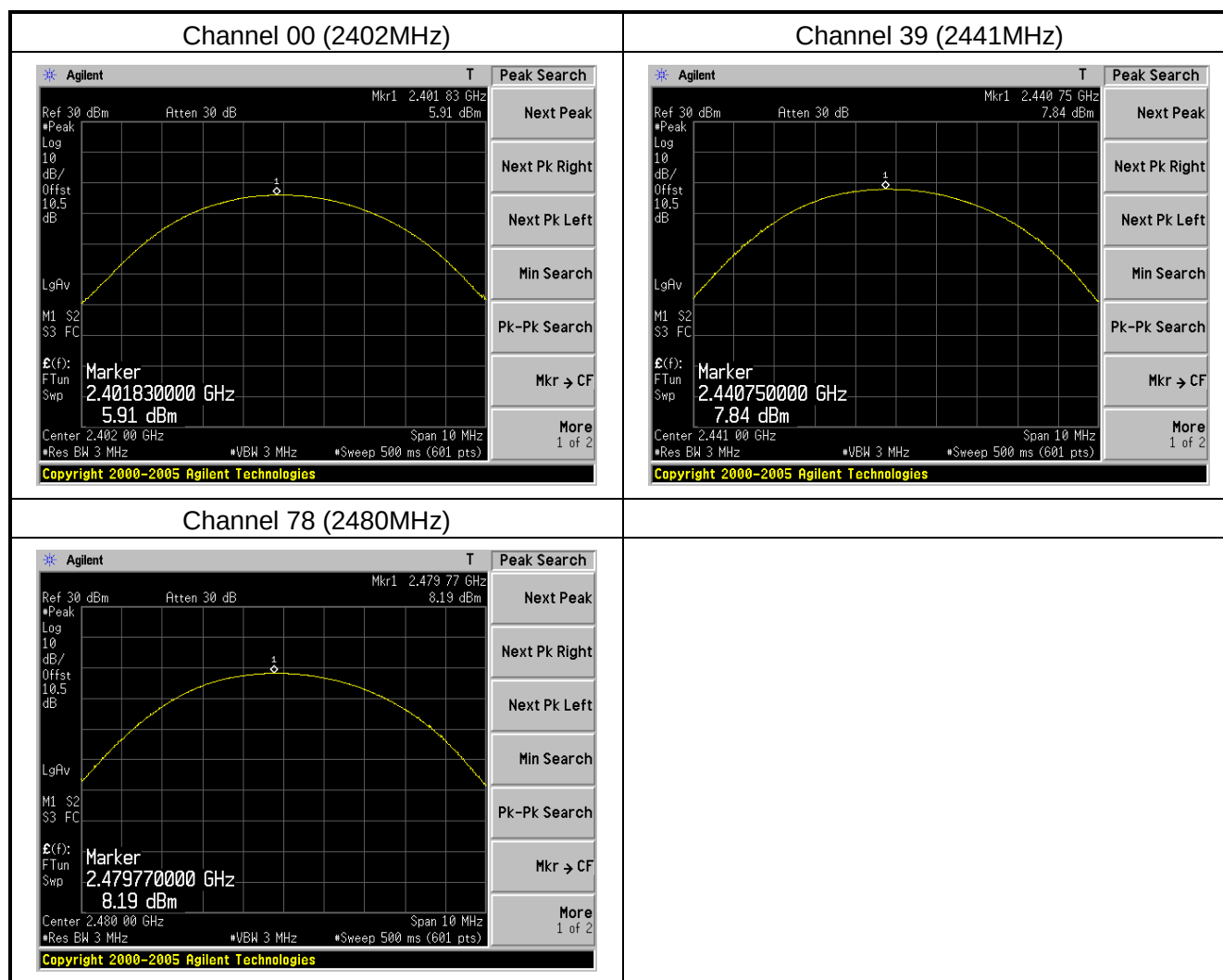
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
0	2402	5.71	20.97	Pass
39	2441	7.46	20.97	Pass
78	2480	7.94	20.97	Pass





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	5.91	20.97	Pass
39	2441	7.84	20.97	Pass
78	2480	8.19	20.97	Pass





12. Band-edge Compliance & Conducted Spurious Emissions Measurement

12.1 Limit

In any 100 kHz 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 20 dB 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.



12.2 Test Procedure

According to ANSI C63.10: 2010.

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW $\geq$ RBW

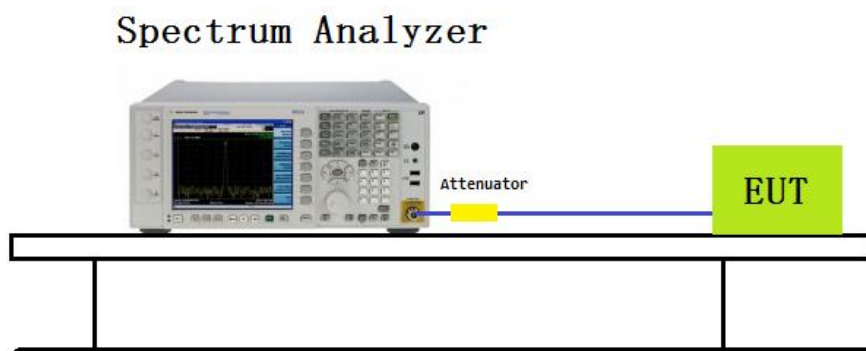
Sweep = auto

Detector function = peak

Trace = max hold

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.

12.3 Test Setup

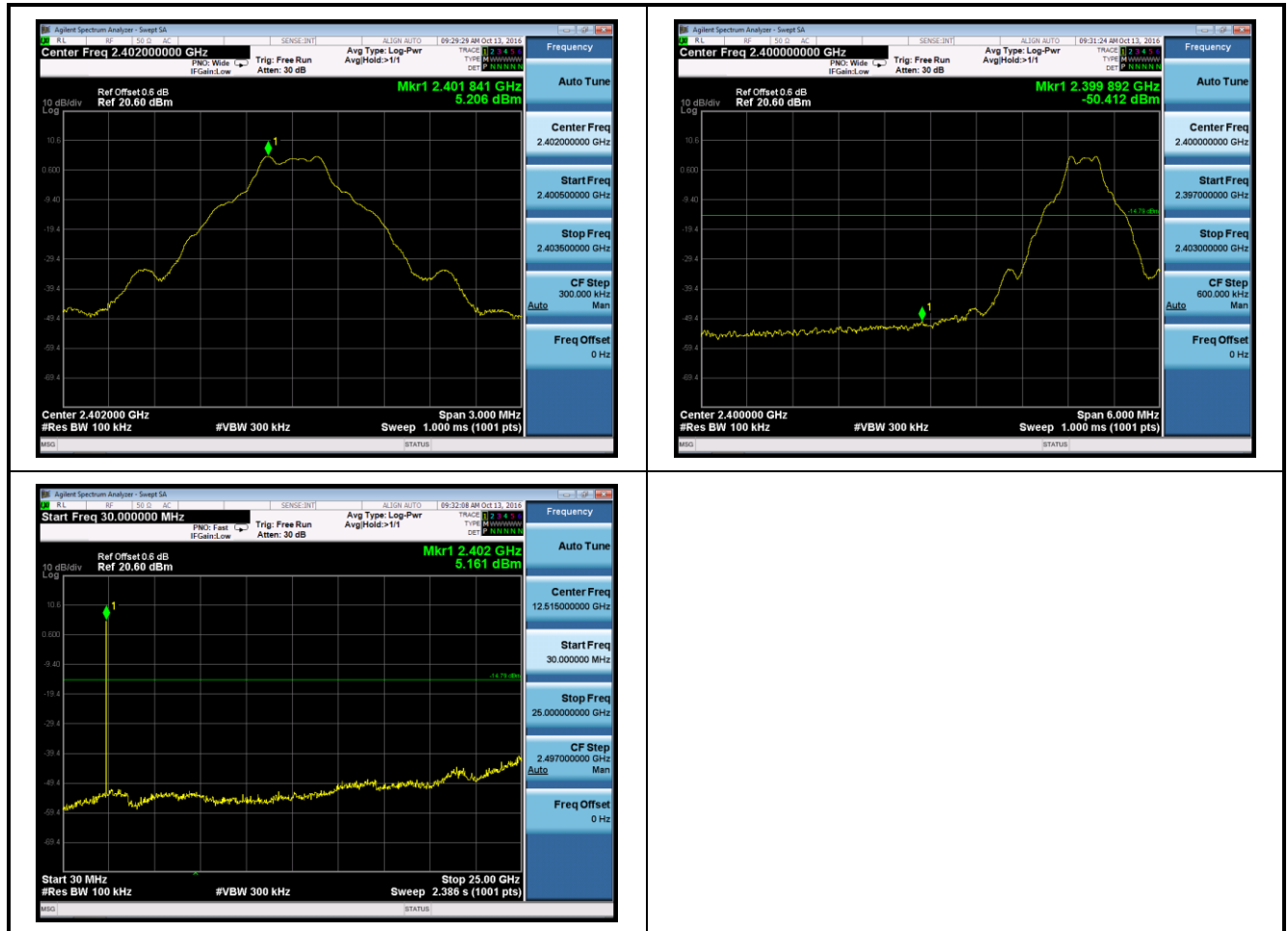




12.4 Test Result

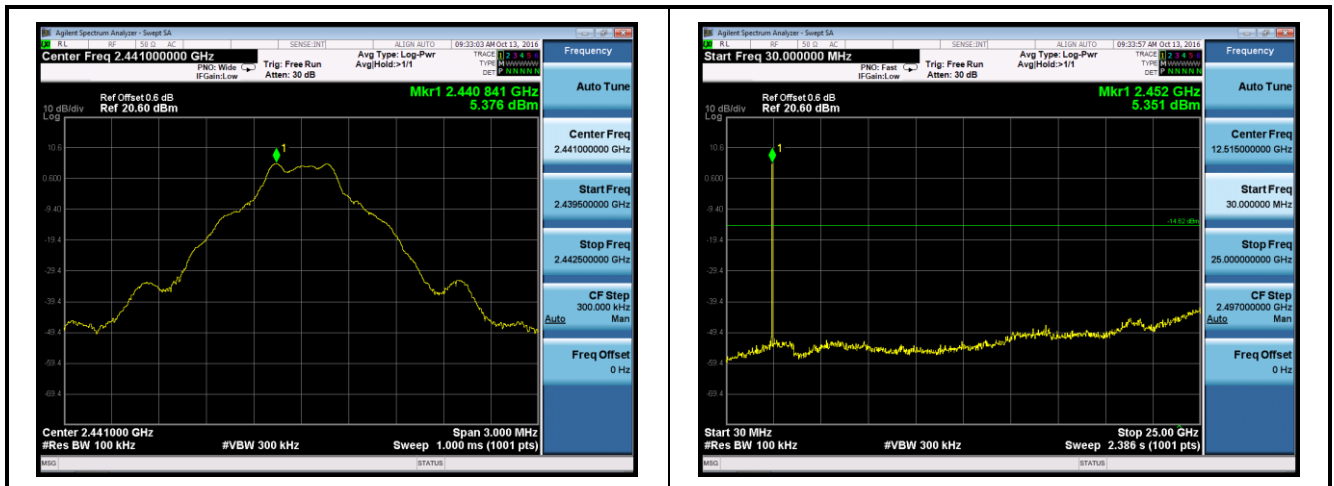
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 1: Transmit by DH5

Mode 1: Transmit by DH5 (2402MHz)

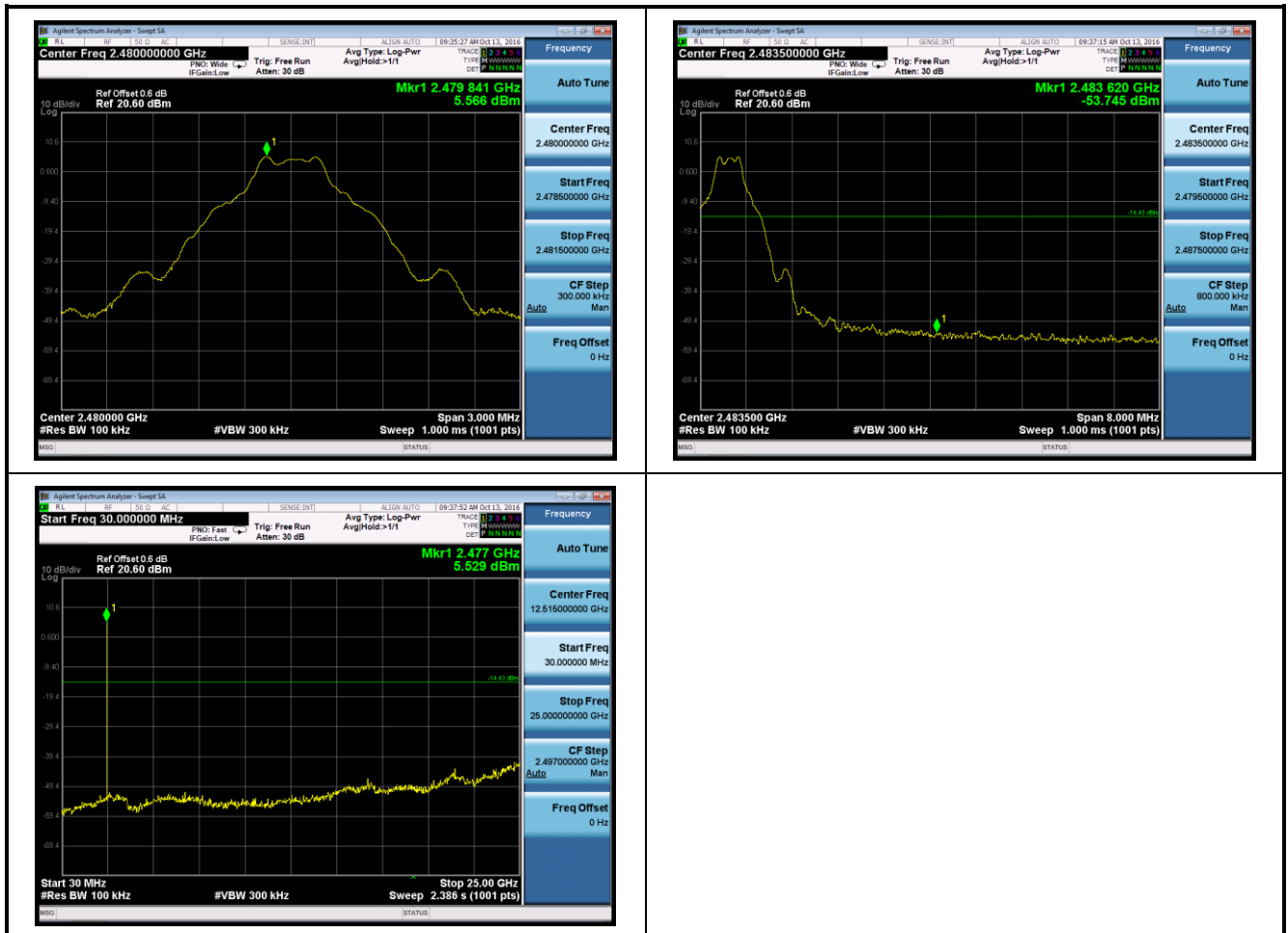




Mode 1: Transmit by DH5 (2441MHz)



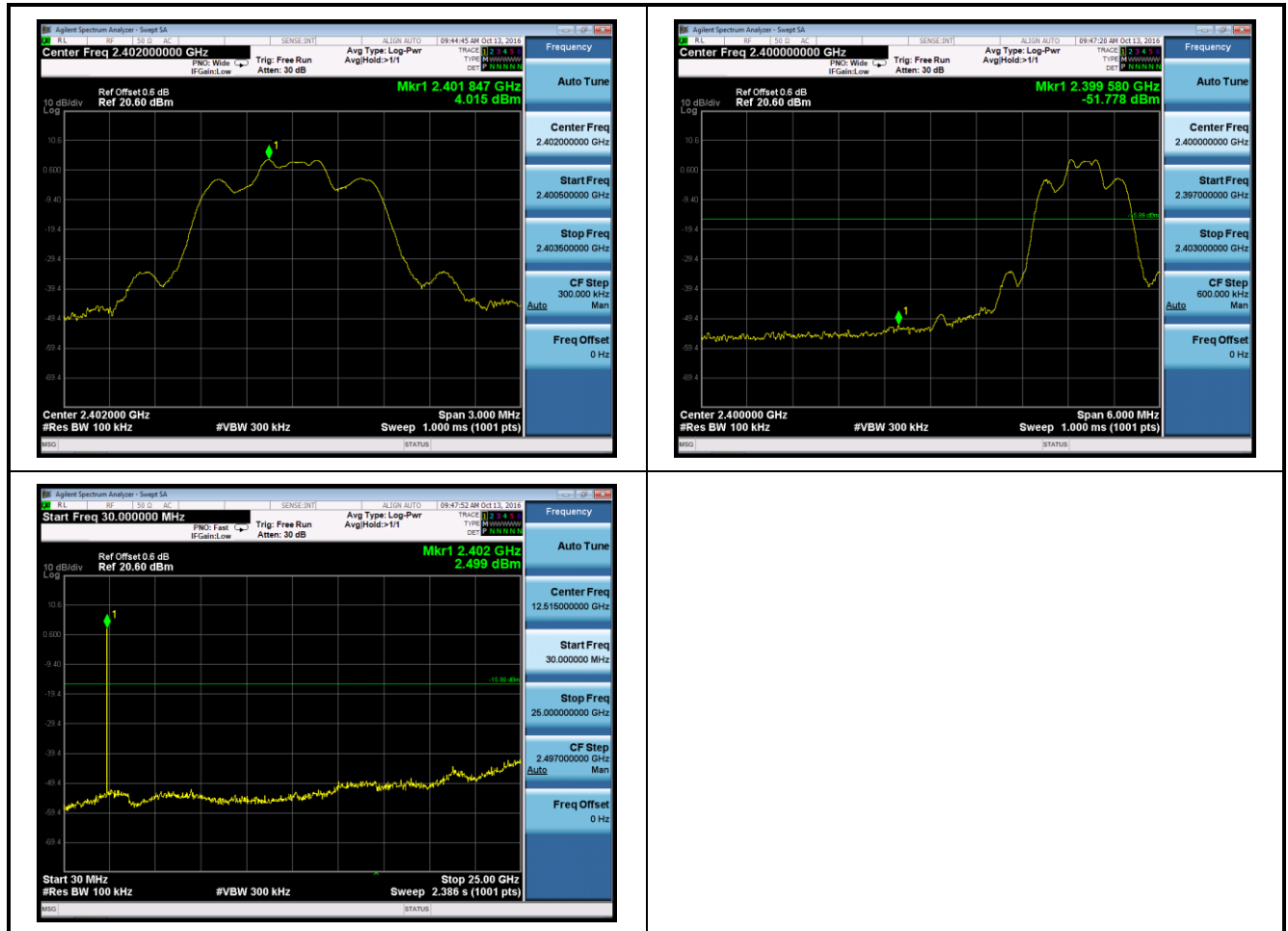
Mode 1: Transmit by DH5 (2480MHz)





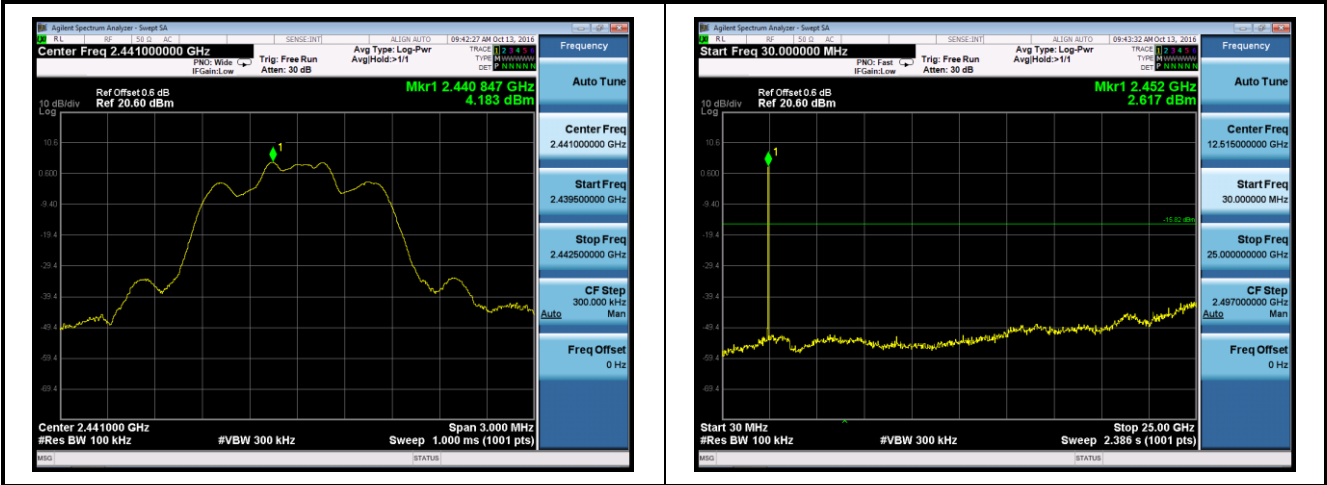
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 2: Transmit by 2DH5

Mode 2: Transmit by 2DH5 (2402MHz)

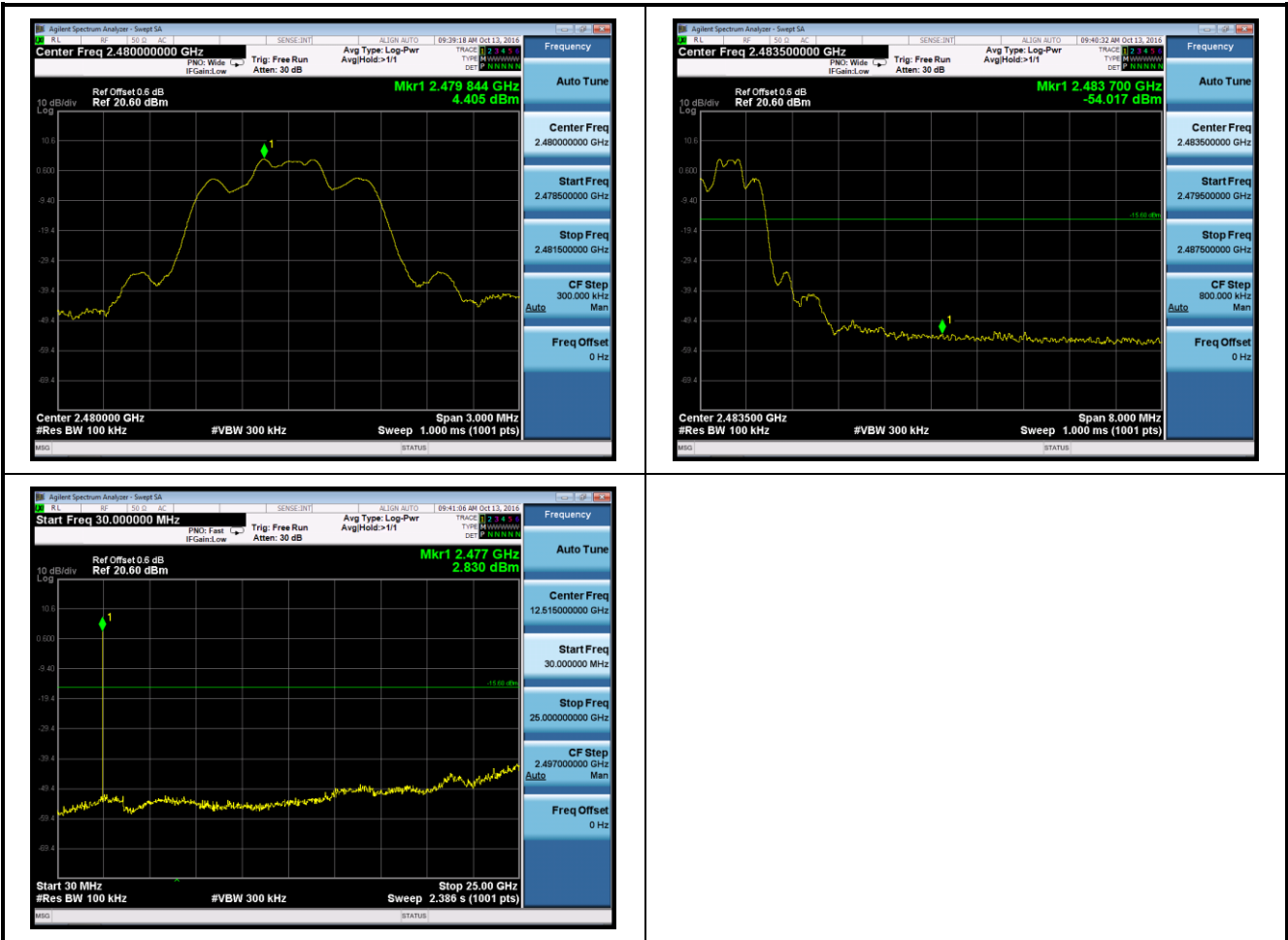




Mode 2: Transmit by 2DH5 (2441MHz)



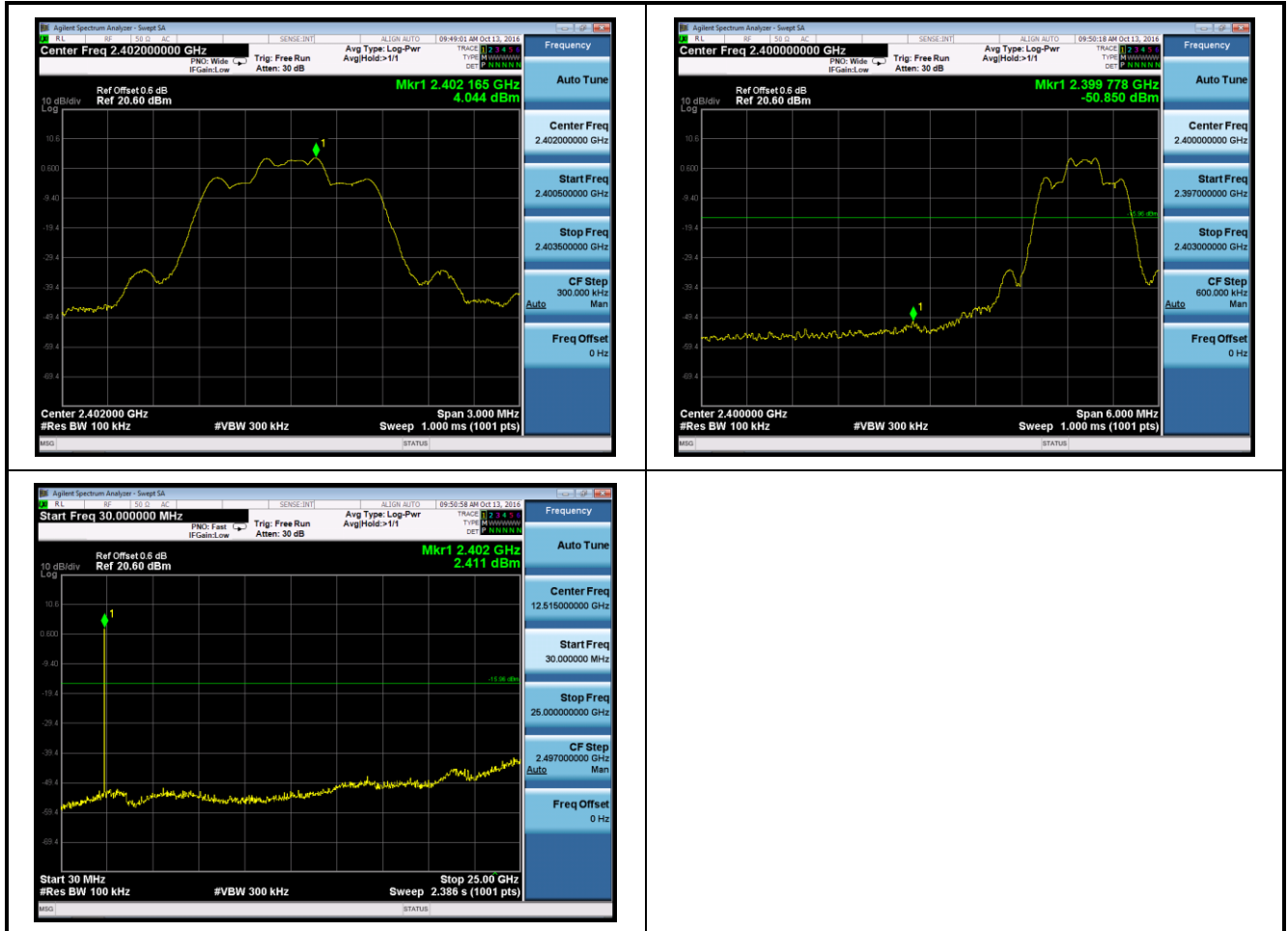
Mode 2: Transmit by 2DH5 (2480MHz)





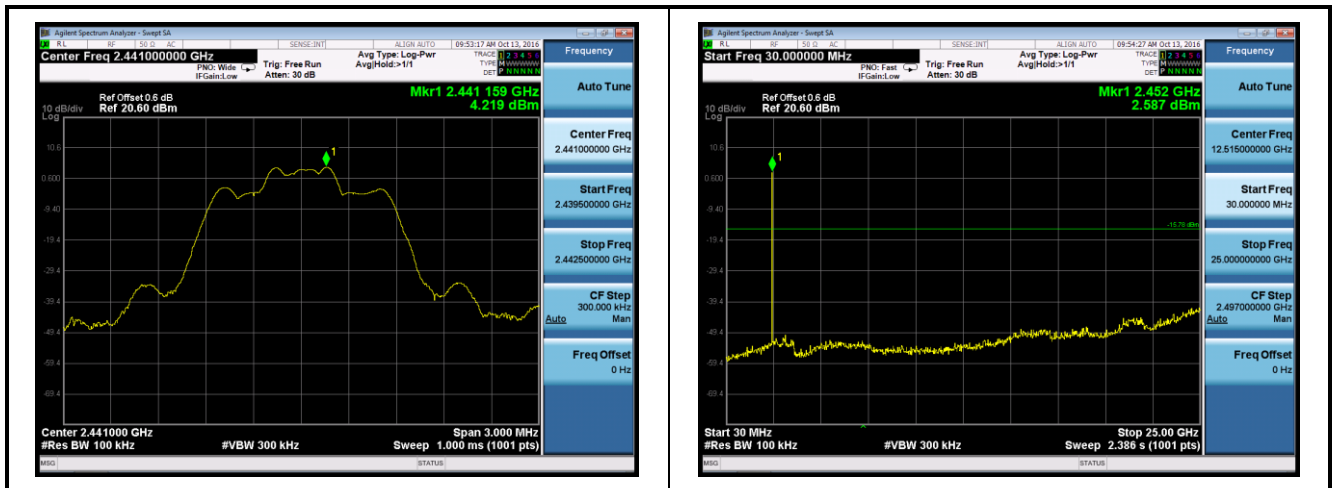
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 3: Transmit by 3DH5

Mode 3: Transmit by 3DH5 (2402MHz)

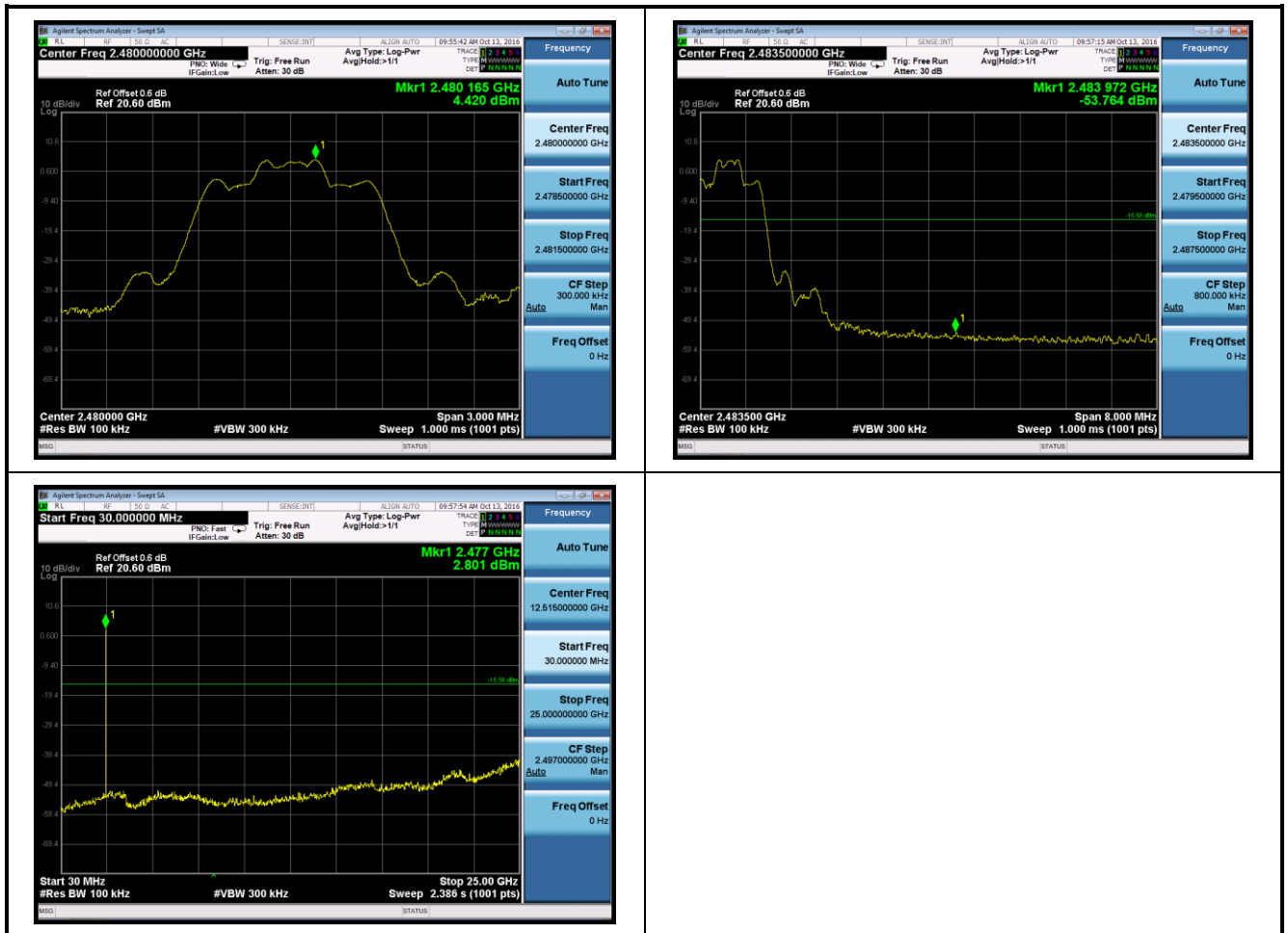




Mode 3: Transmit by 3DH5 (2441MHz)



Mode 3: Transmit by 3DH5 (2480MHz)





13. Radiated Emission Band Edge Measurement

13.1 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.

13.2 Test Procedure

According to ANSI C63.10: 2013.

This test is required for any spurious emission or modulation product that falls in a Restricted Band, as defined in Section 15.205 of FCC part 15. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

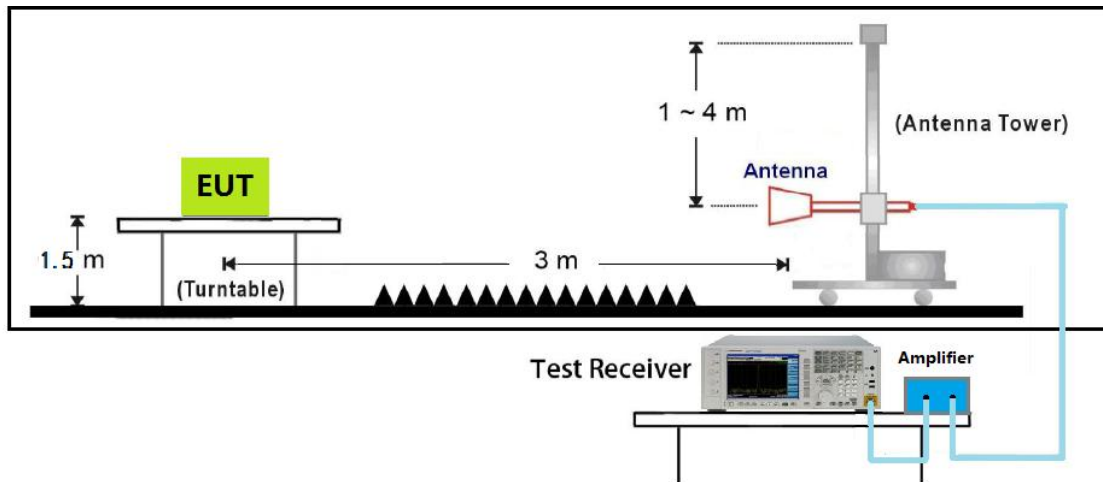
Trace = max hold

Follow the guidelines in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b) of FCC part 15.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209 of FCC Part 15. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit of FCC part 15.

If the emission on which a radiated measurement must be made is located at the edge of the authorized band of operation, then the alternative “marker-delta” method may be employed.

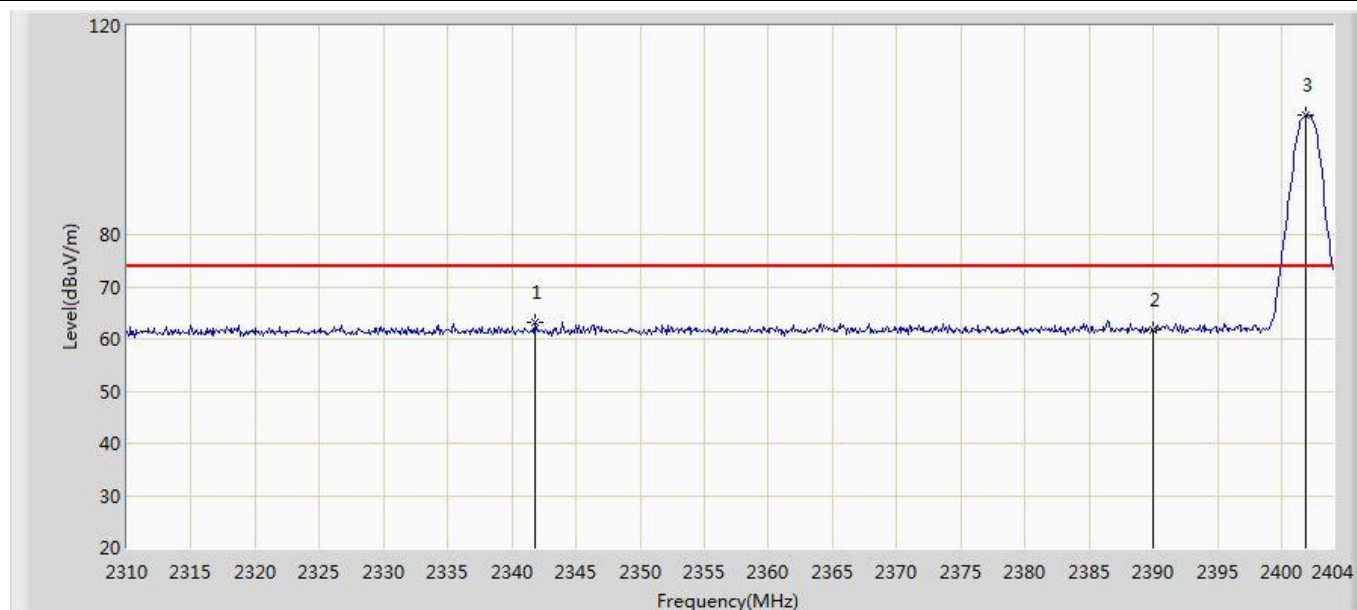
13.3 Test Setup





13.4 Test Result

Site: AC102	Time: 2016/10/18 - 17:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2402MHz	



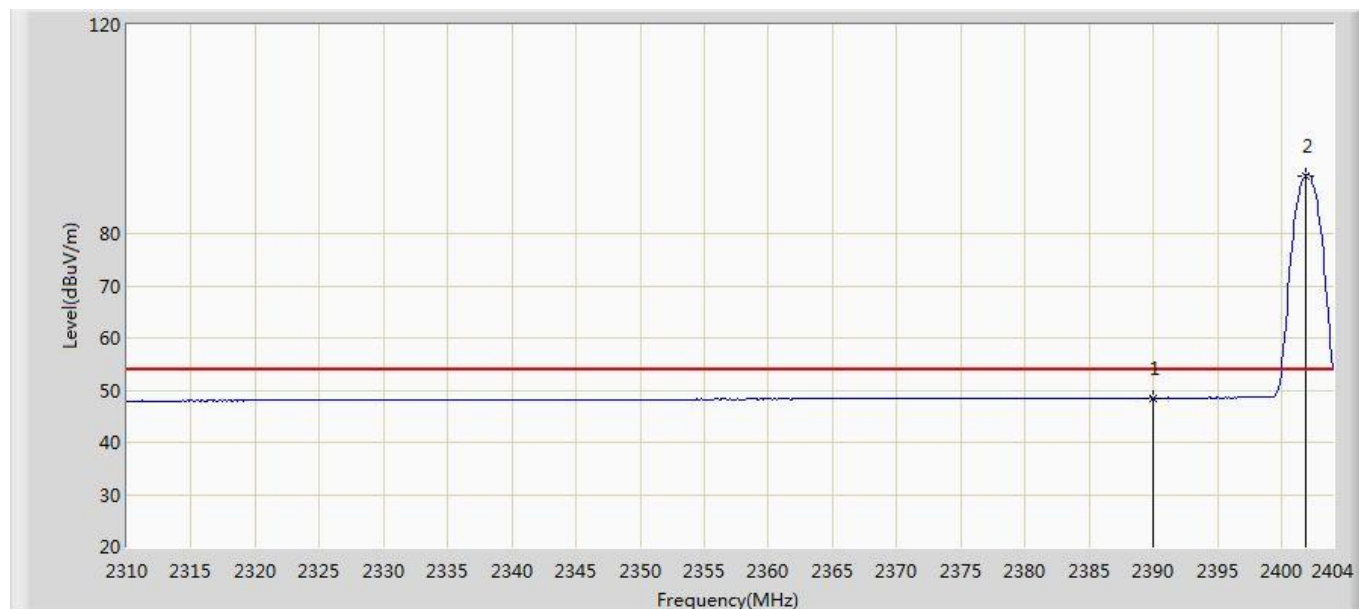
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2341.772	63.328	30.414	-10.672	74.000	32.915	PK
2		2390.000	61.698	28.587	-12.302	74.000	33.111	PK
3	*	2401.838	102.787	69.627	N/A	N/A	33.160	PK

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

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



Site: AC102	Time: 2016/10/18 - 17:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2402MHz	



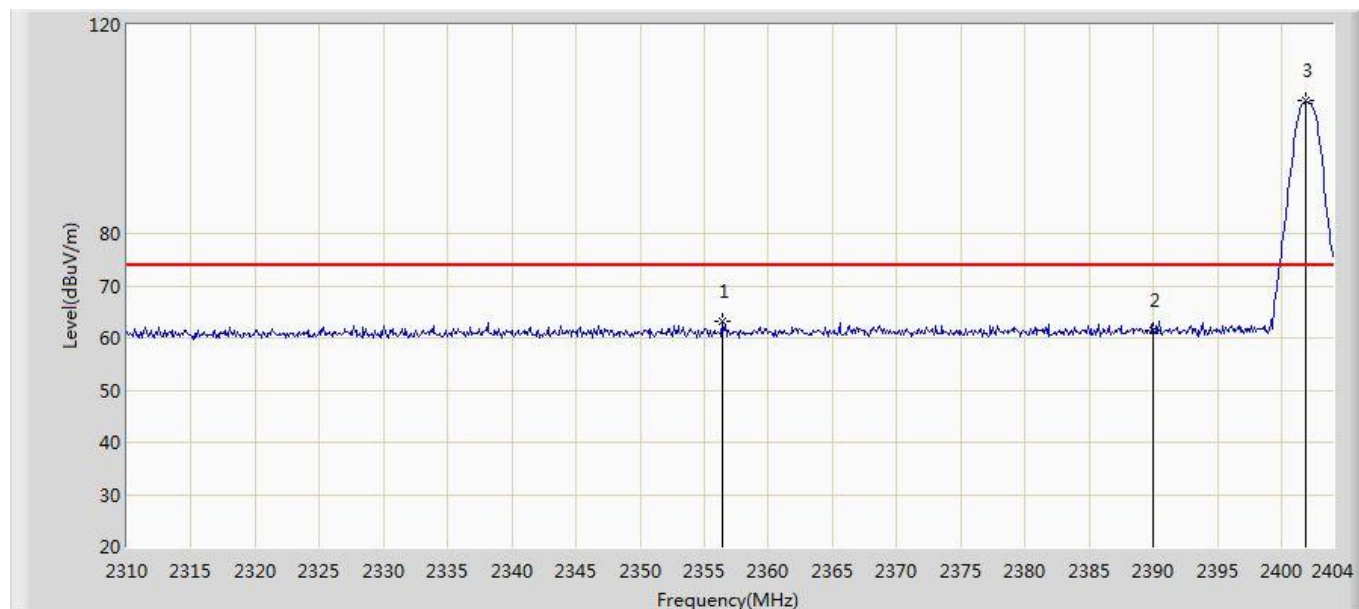
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.525	15.414	-5.475	54.000	33.111	AV
2	*	2401.838	91.102	57.942	N/A	N/A	33.160	AV

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

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



Site: AC102	Time: 2016/10/18 - 17:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2402MHz	



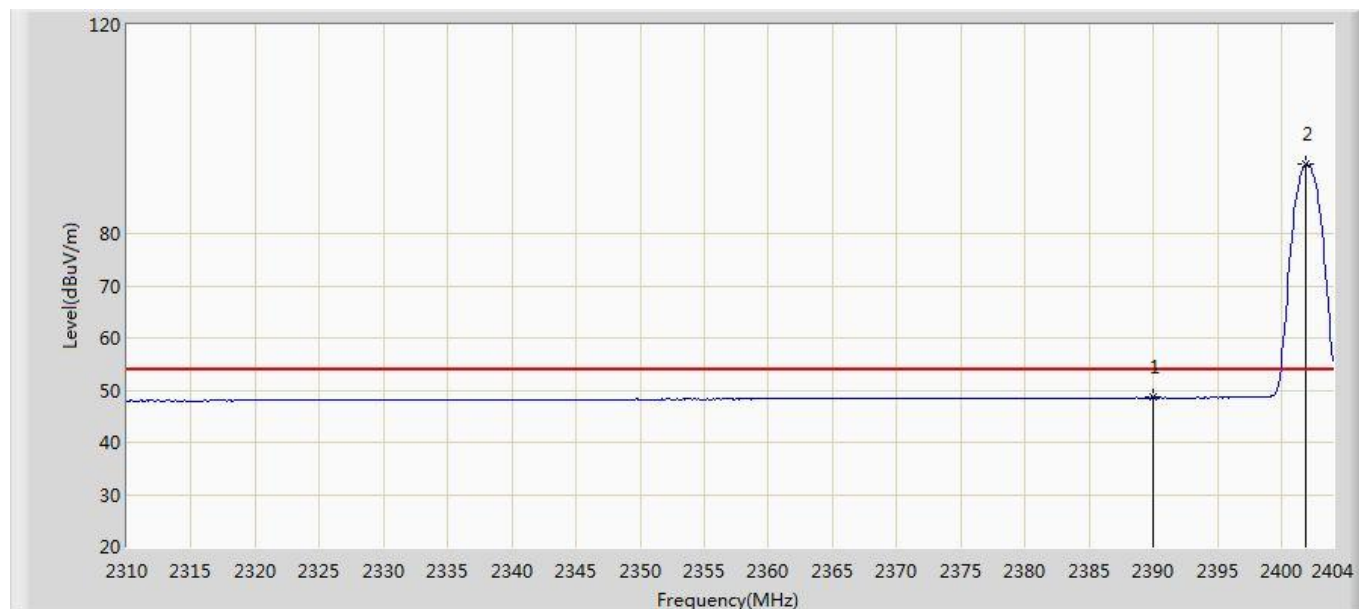
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2356.436	63.204	30.230	-10.796	74.000	32.974	PK
2		2390.000	61.345	28.234	-12.655	74.000	33.111	PK
3	*	2401.932	105.368	72.208	N/A	N/A	33.160	PK

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

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



Site: AC102	Time: 2016/10/18 - 17:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2402MHz	



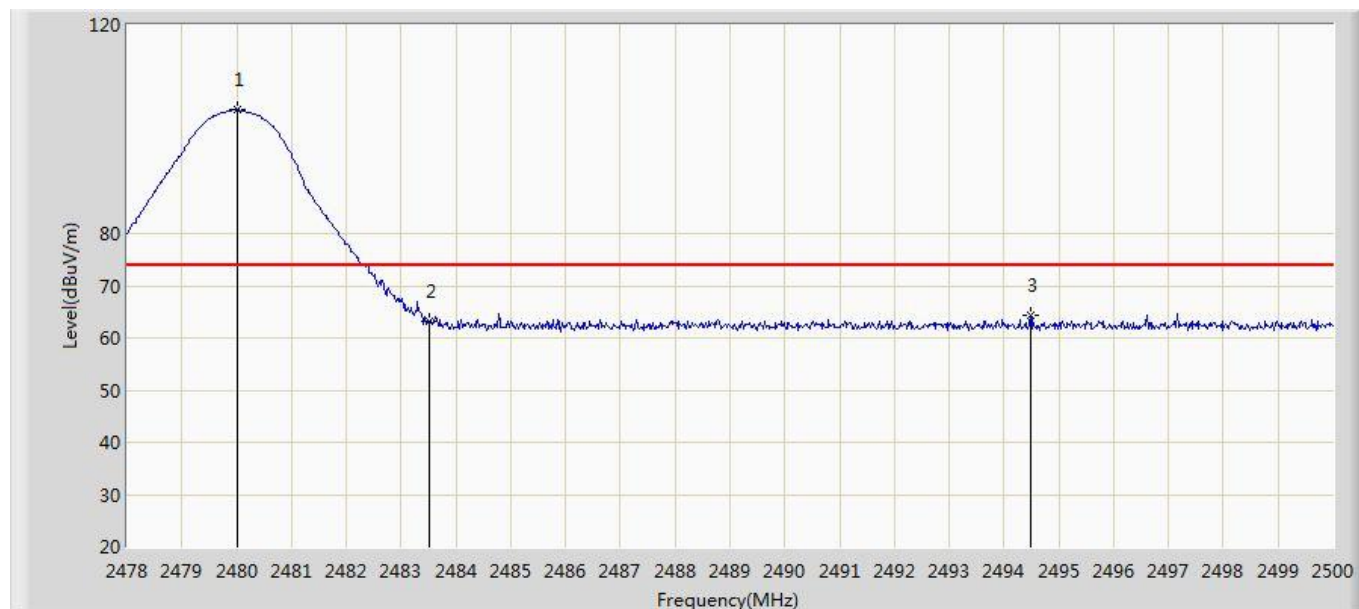
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.564	15.453	-5.436	54.000	33.111	AV
2	*	2401.932	93.242	60.082	N/A	N/A	33.160	AV

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

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



Site: AC102	Time: 2016/10/18 - 17:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2480MHz	



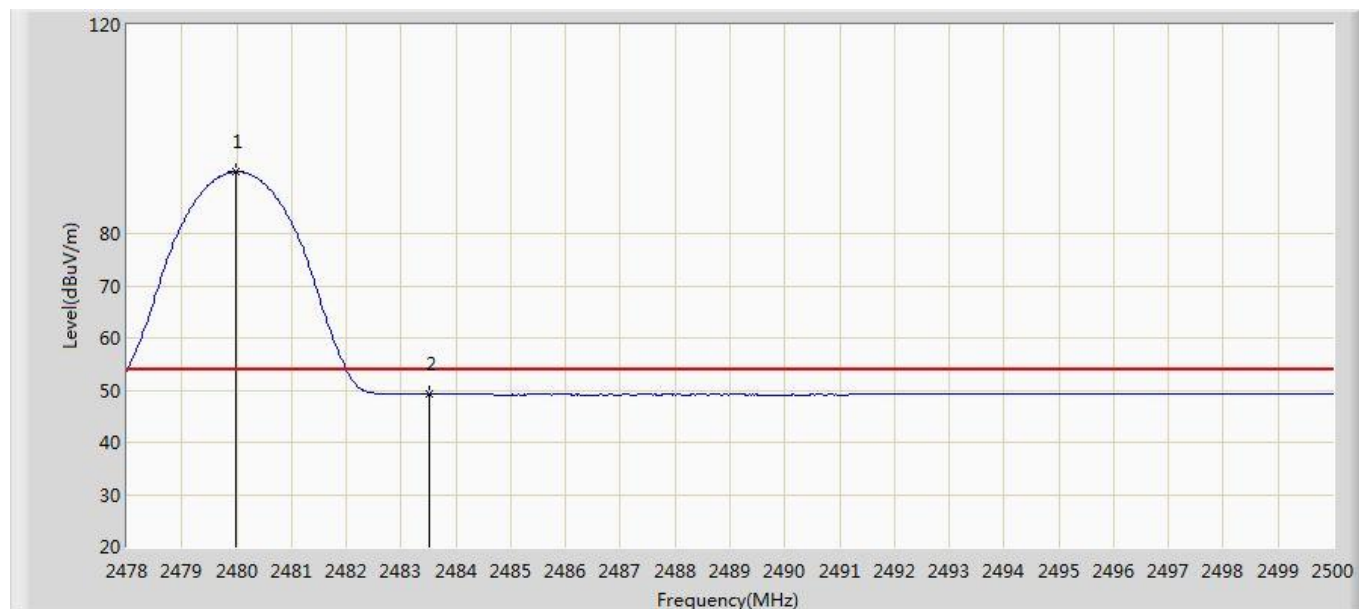
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	103.711	70.232	N/A	N/A	33.479	PK
2		2483.500	63.065	29.573	-10.935	74.000	33.493	PK
3		2494.478	64.253	30.716	-9.747	74.000	33.537	PK

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

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



Site: AC102	Time: 2016/10/18 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2480MHz	



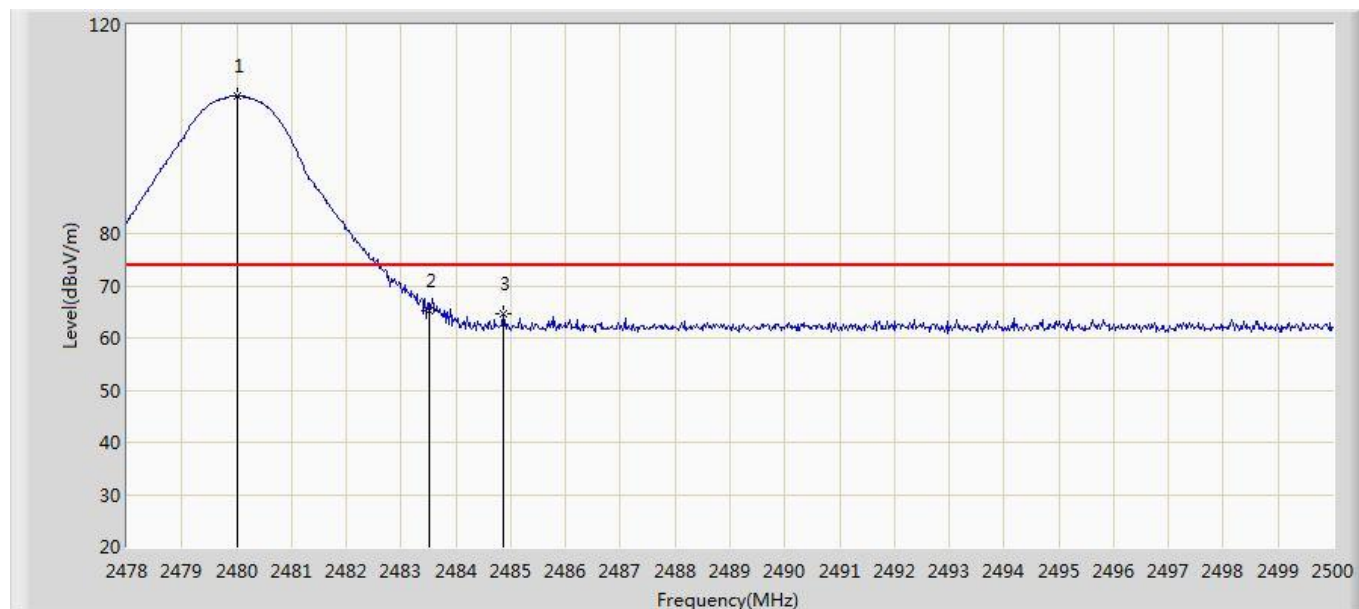
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.980	91.839	58.361	N/A	N/A	33.478	AV
2		2483.500	49.194	15.702	-4.806	54.000	33.493	AV

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

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



Site: AC102	Time: 2016/10/18 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2480MHz	



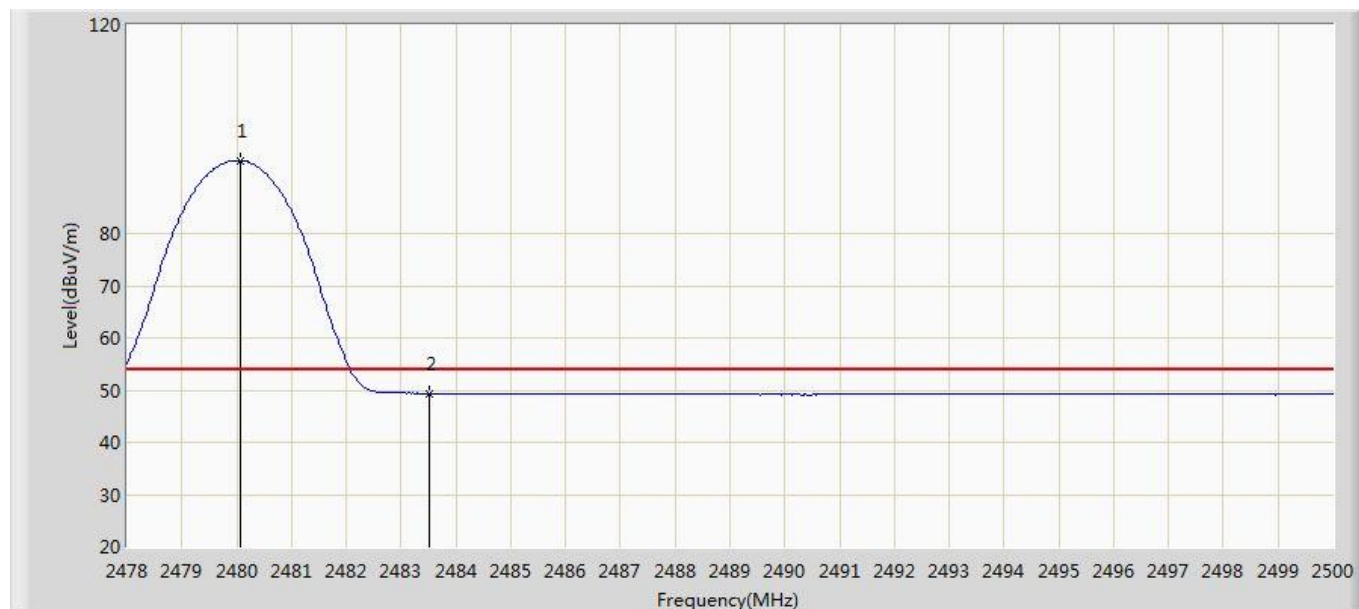
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	106.407	72.928	N/A	N/A	33.479	PK
2		2483.500	65.350	31.858	-8.650	74.000	33.493	PK
3		2484.864	64.678	31.180	-9.322	74.000	33.498	PK

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

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



Site: AC102	Time: 2016/10/18 - 17:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 1: Transmit DH5 at 2480MHz	



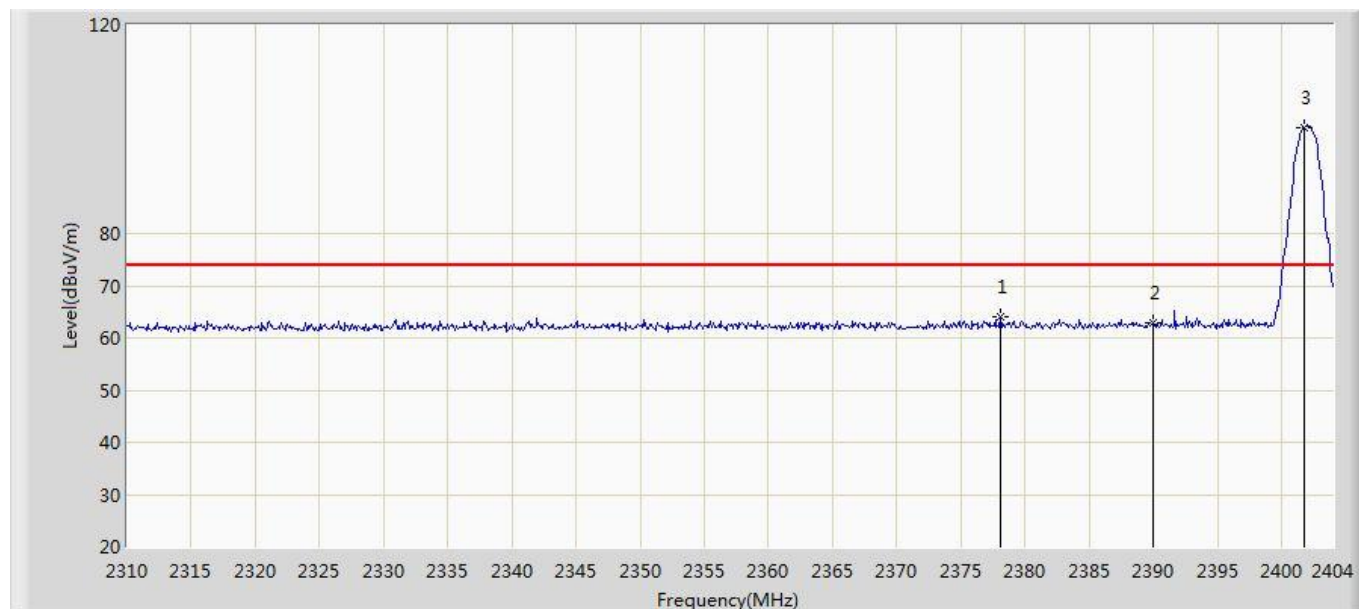
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.068	94.008	60.529	N/A	N/A	33.479	AV
2		2483.500	49.362	15.870	-4.638	54.000	33.493	AV

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

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



Site: AC102	Time: 2016/10/18 - 18:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2402MHz	



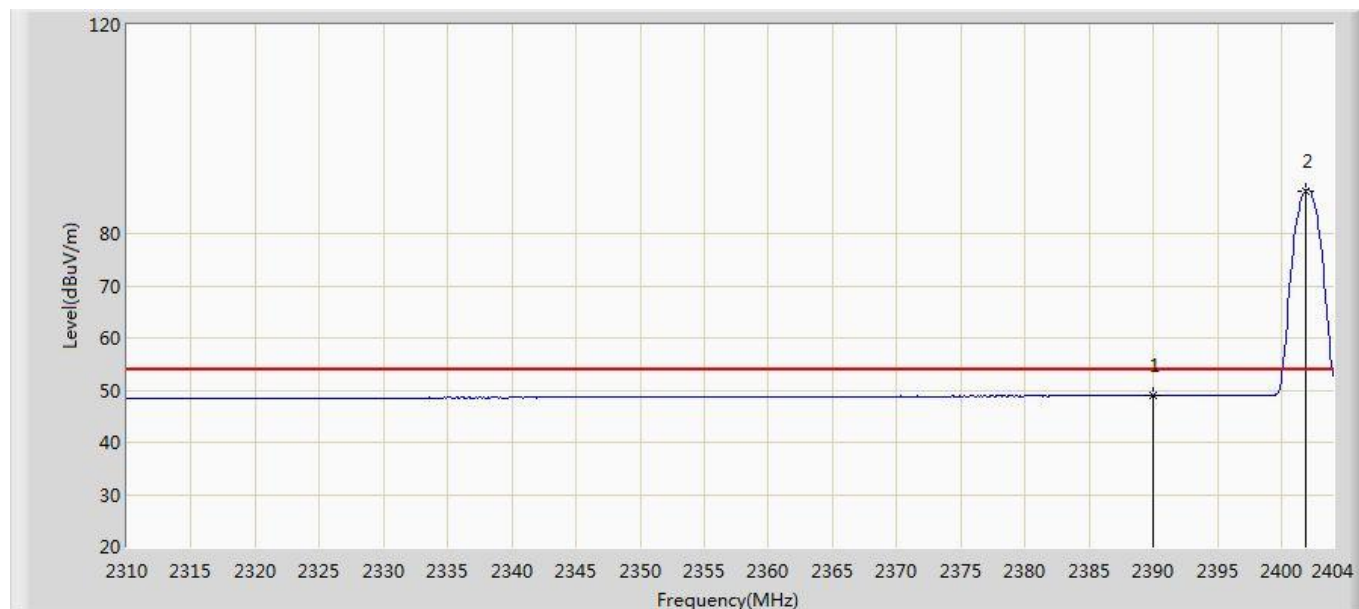
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2378.056	64.081	31.019	-9.919	74.000	33.063	PK
2		2390.000	62.880	29.769	-11.120	74.000	33.111	PK
3	*	2401.744	100.393	67.234	N/A	N/A	33.160	PK

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

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



Site: AC102	Time: 2016/10/18 - 18:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2402MHz	



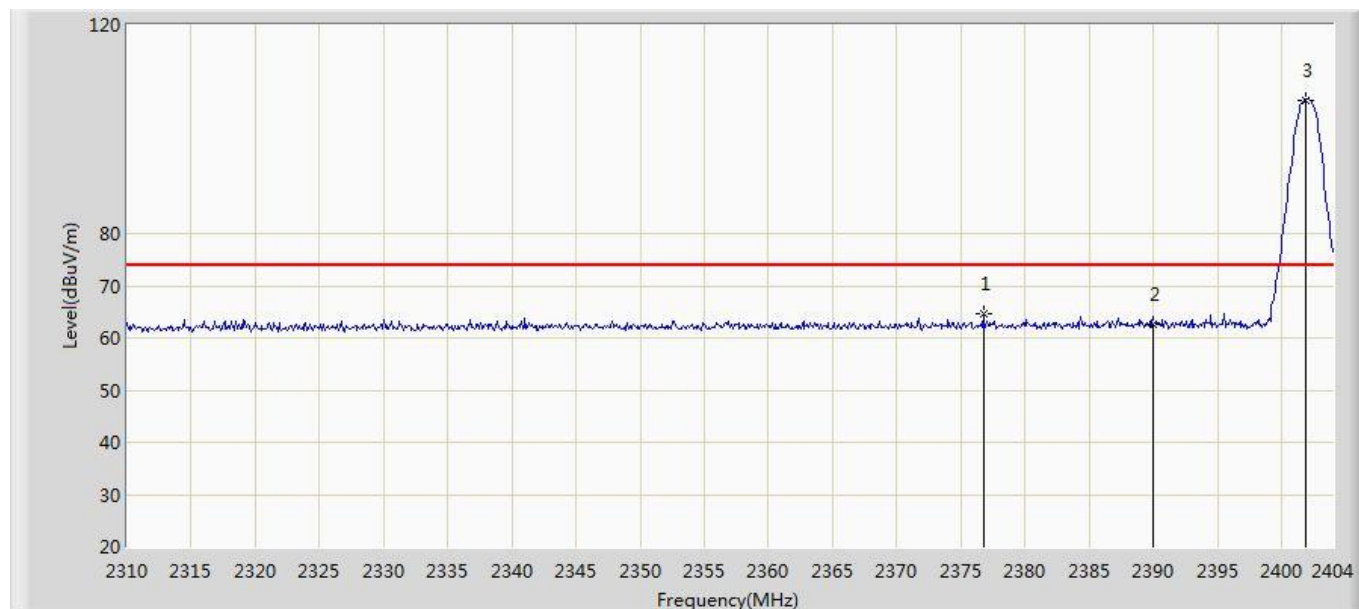
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.960	15.849	-5.040	54.000	33.111	AV
2	*	2401.838	88.168	55.008	N/A	N/A	33.160	AV

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

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



Site: AC102	Time: 2016/10/18 - 18:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2402MHz	



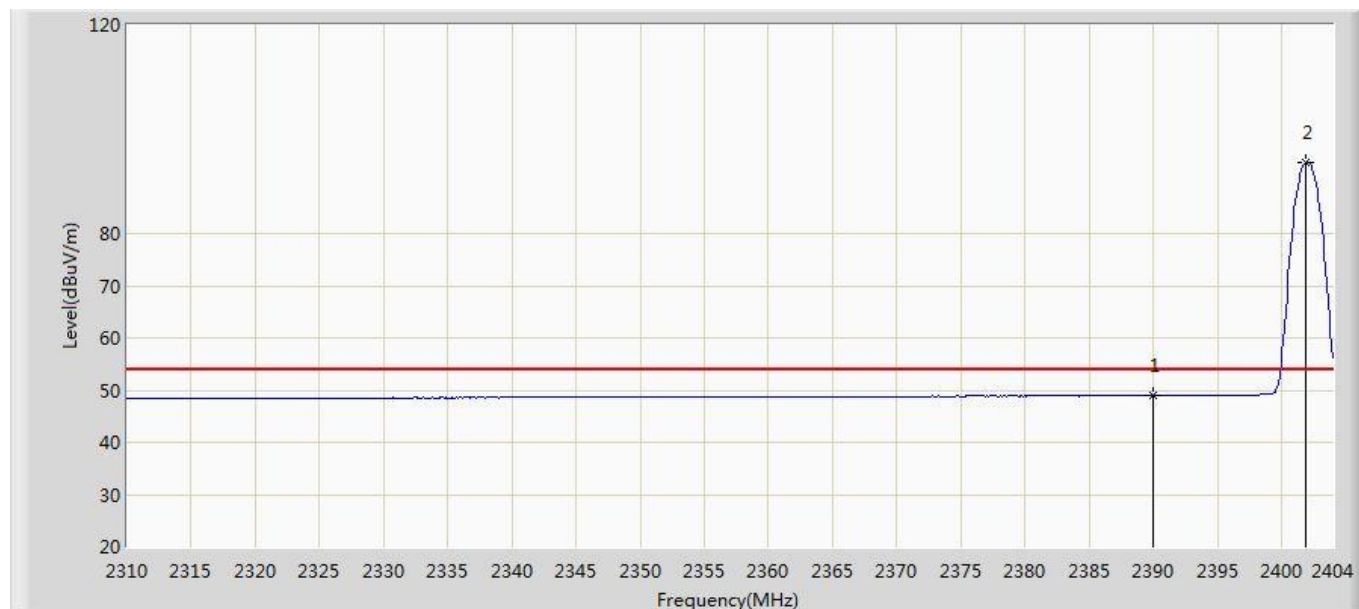
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2376.740	64.545	31.488	-9.455	74.000	33.057	PK
2		2390.000	62.634	29.523	-11.366	74.000	33.111	PK
3	*	2401.838	105.649	72.489	N/A	N/A	33.160	PK

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

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



Site: AC102	Time: 2016/10/18 - 18:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2402MHz	



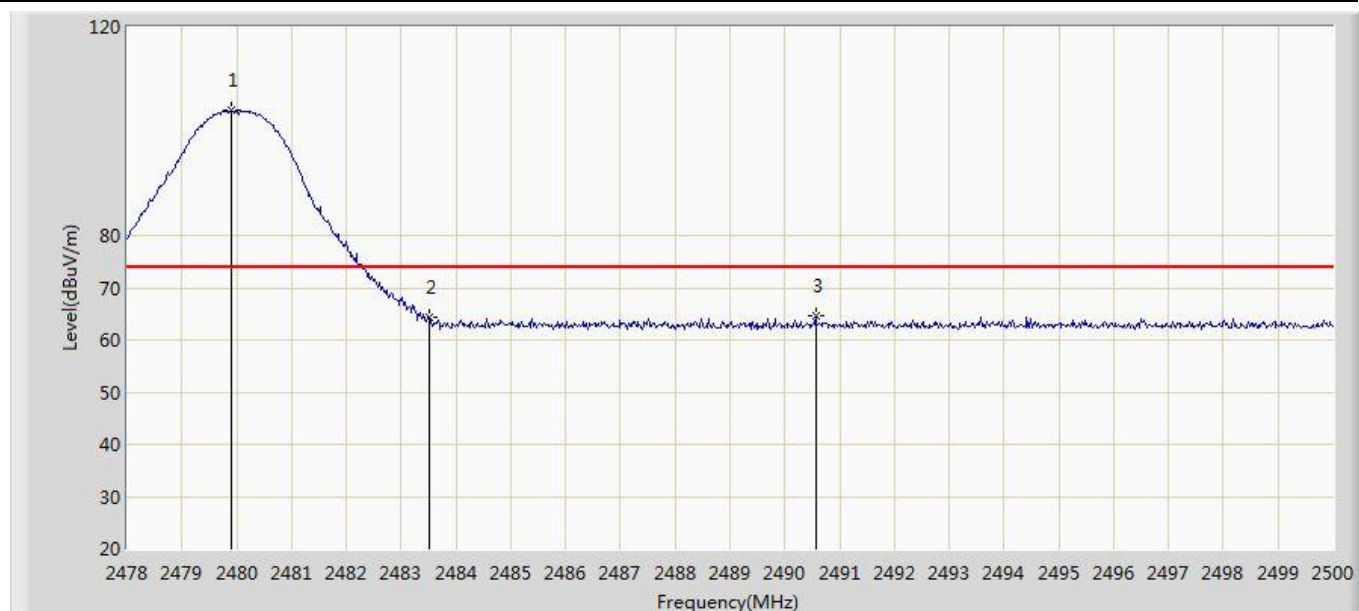
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.967	15.856	-5.033	54.000	33.111	AV
2	*	2401.838	93.519	60.359	N/A	N/A	33.160	AV

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

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



Site: AC102	Time: 2016/10/18 - 18:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2480MHz	



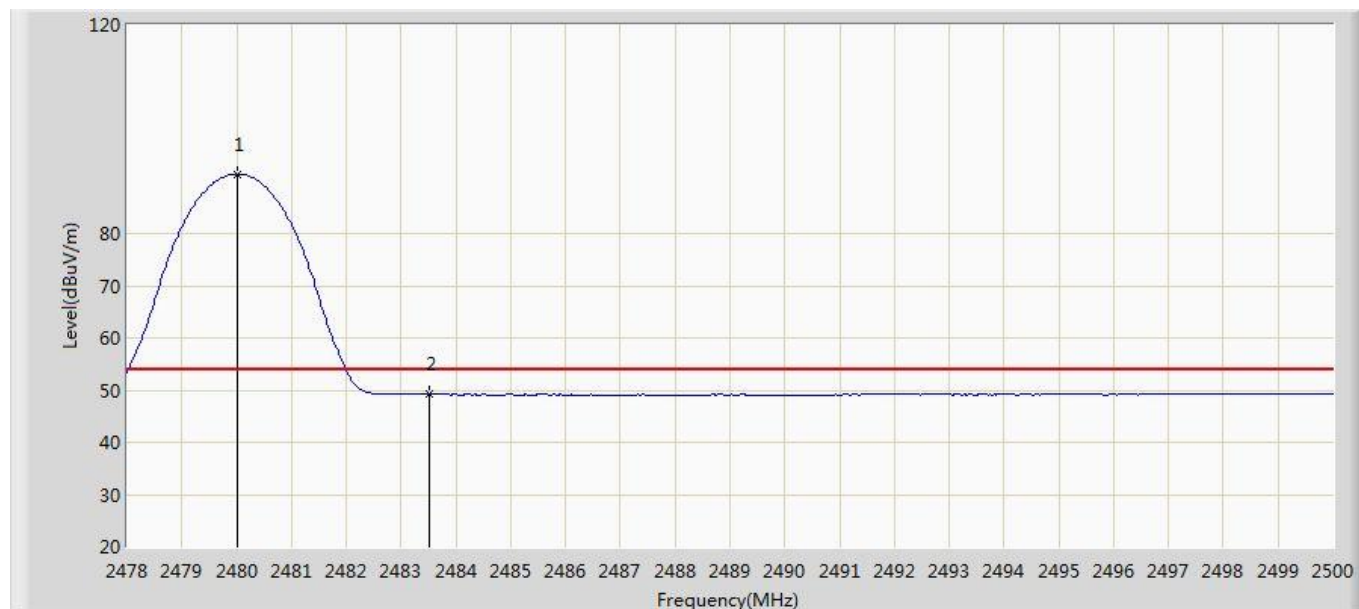
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.914	104.201	70.723	N/A	N/A	33.478	PK
2		2483.500	64.410	30.918	-9.590	74.000	33.493	PK
3		2490.562	64.718	31.197	-9.282	74.000	33.521	PK

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

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



Site: AC102	Time: 2016/10/18 - 18:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2480MHz	



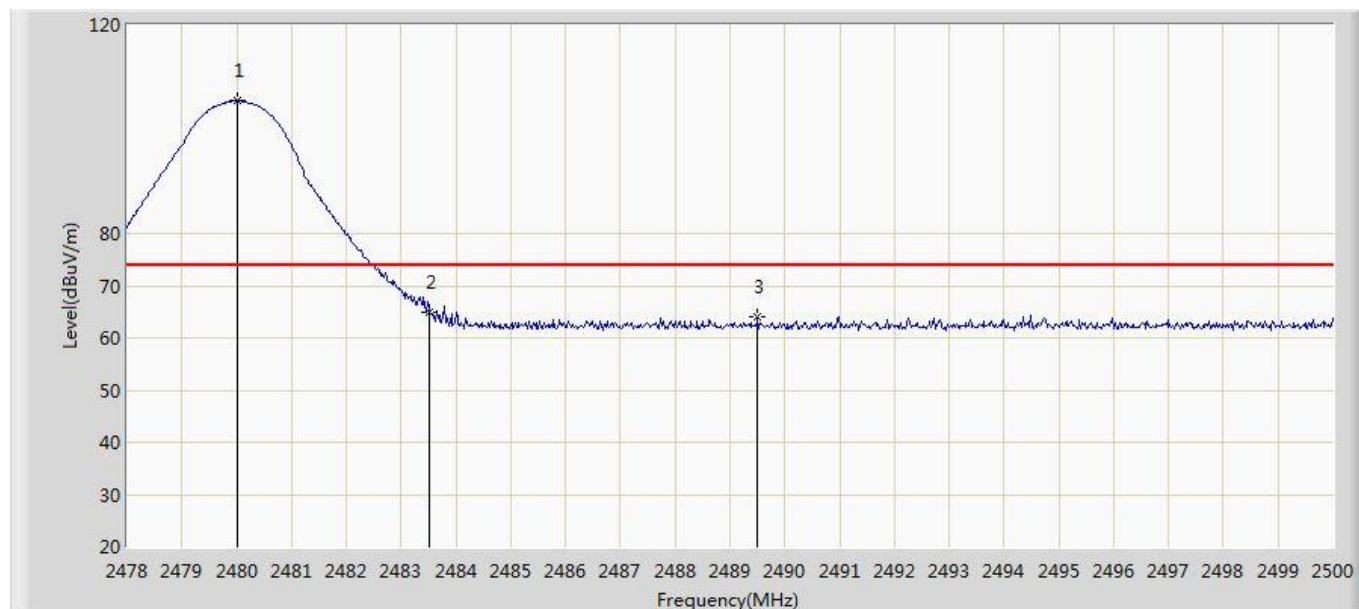
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	91.429	57.950	N/A	N/A	33.479	AV
2		2483.500	49.166	15.674	-4.834	54.000	33.493	AV

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

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



Site: AC102	Time: 2016/10/18 - 18:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2480MHz	



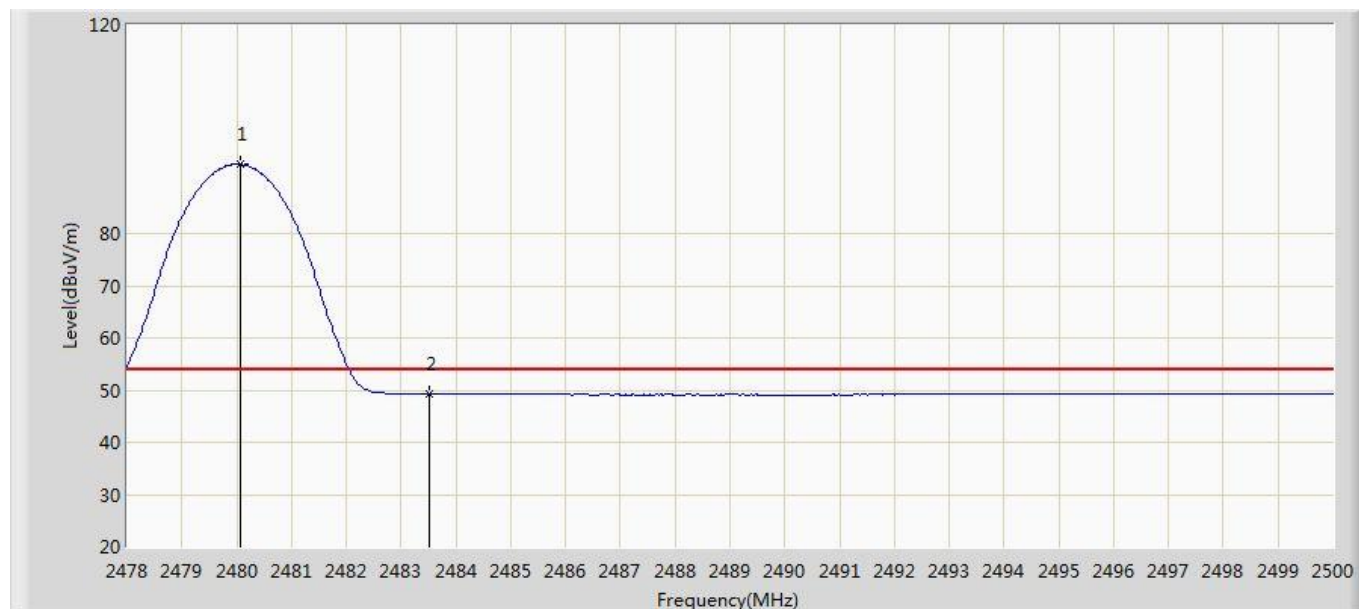
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	105.424	71.945	N/A	N/A	33.479	PK
2		2483.500	65.029	31.537	-8.971	74.000	33.493	PK
3		2489.506	63.946	30.429	-10.054	74.000	33.516	PK

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

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



Site: AC102	Time: 2016/10/18 - 18:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 2: Transmit 2DH5 at 2480MHz	



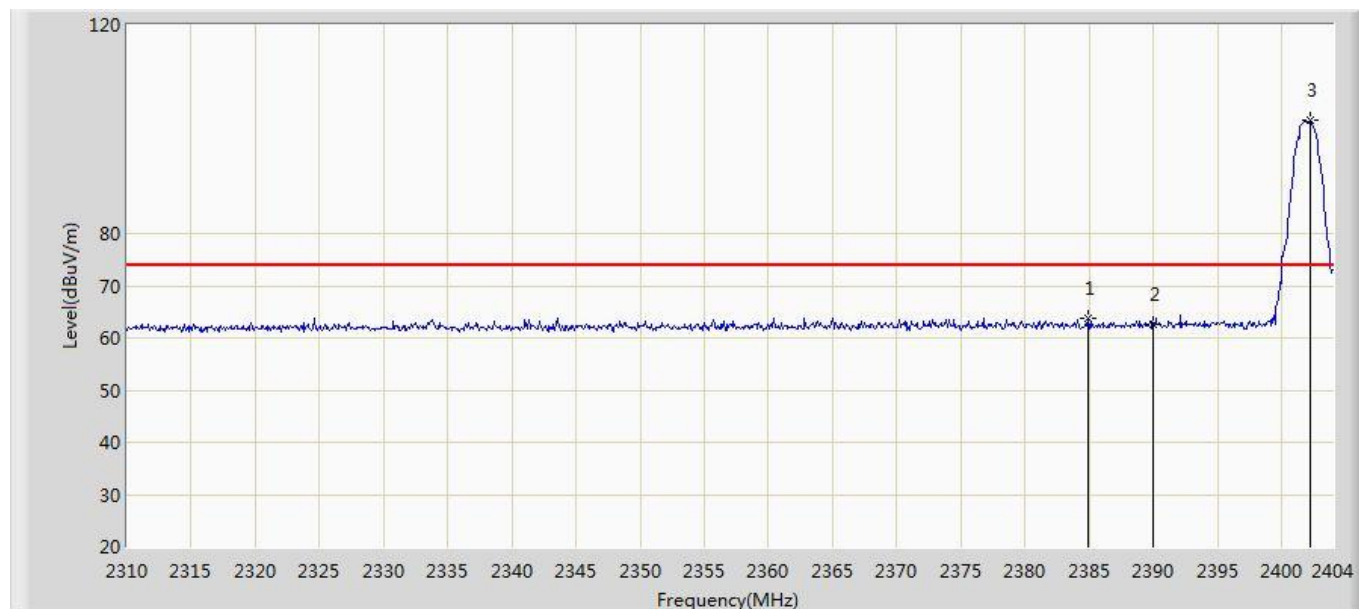
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.068	93.250	59.771	N/A	N/A	33.479	AV
2		2483.500	49.296	15.804	-4.704	54.000	33.493	AV

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

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



Site: AC102	Time: 2016/10/18 - 18:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2402MHz	



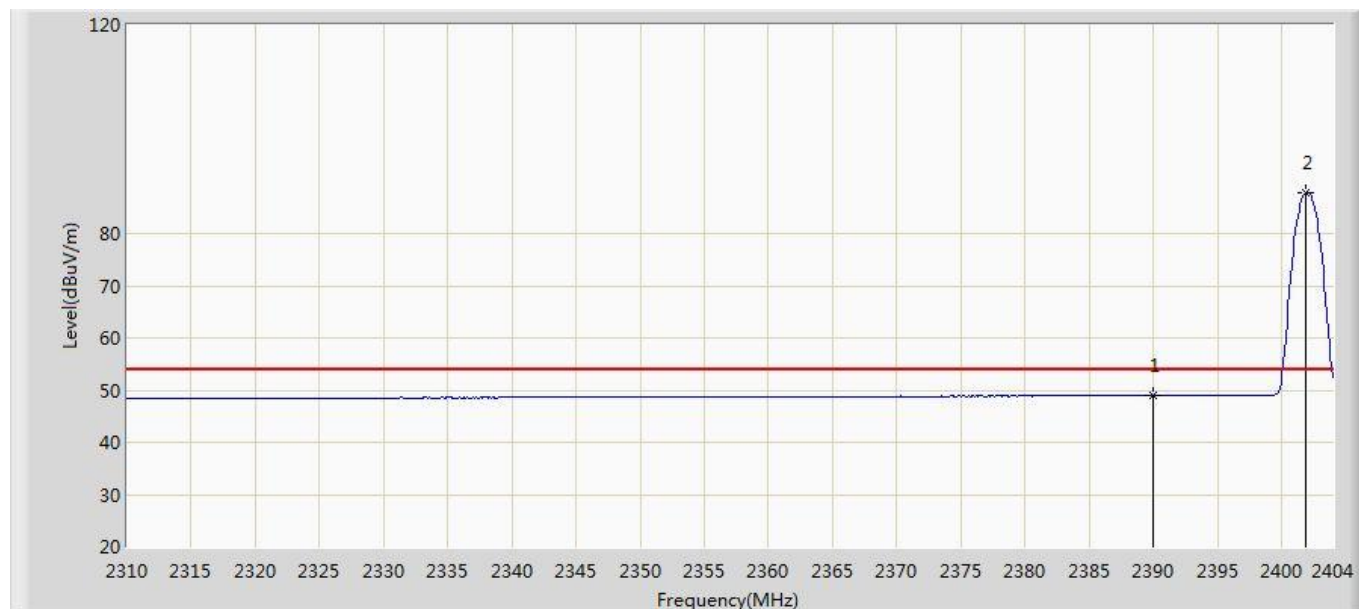
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2384.918	63.812	30.722	-10.188	74.000	33.090	PK
2		2390.000	62.743	29.632	-11.257	74.000	33.111	PK
3	*	2402.214	101.619	68.458	N/A	N/A	33.162	PK

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

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



Site: AC102	Time: 2016/10/18 - 18:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2402MHz	



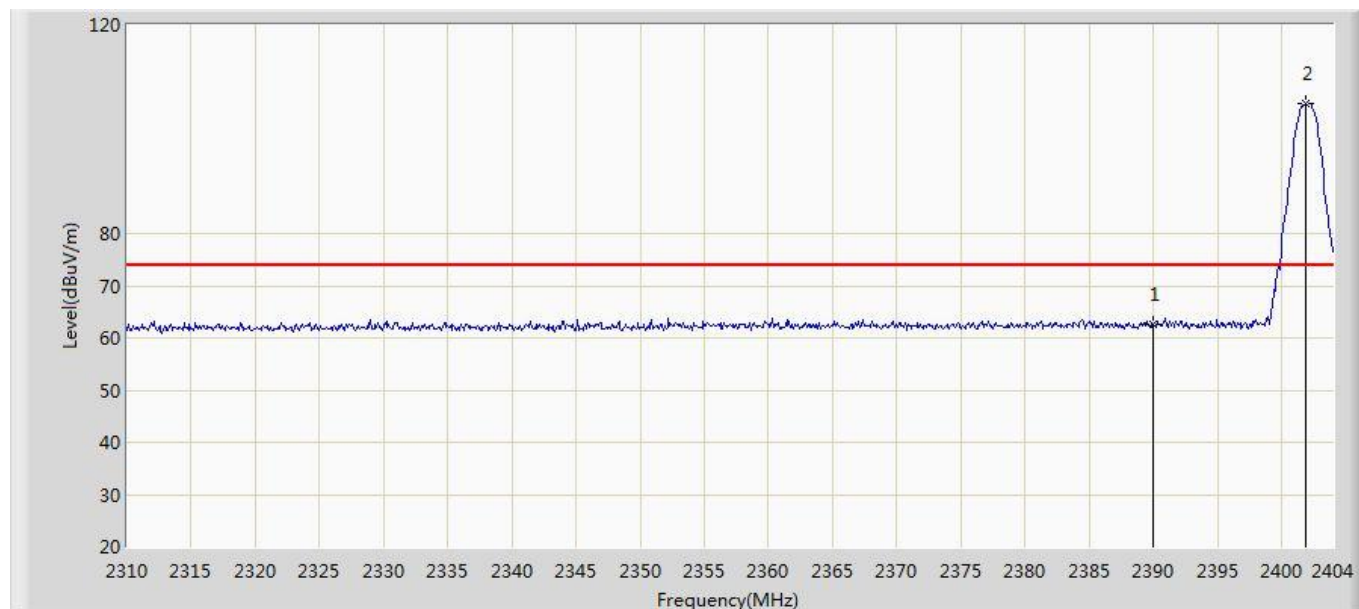
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.977	15.866	-5.023	54.000	33.111	AV
2	*	2401.932	87.958	54.798	N/A	N/A	33.160	AV

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

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



Site: AC102	Time: 2016/10/18 - 18:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2402MHz	



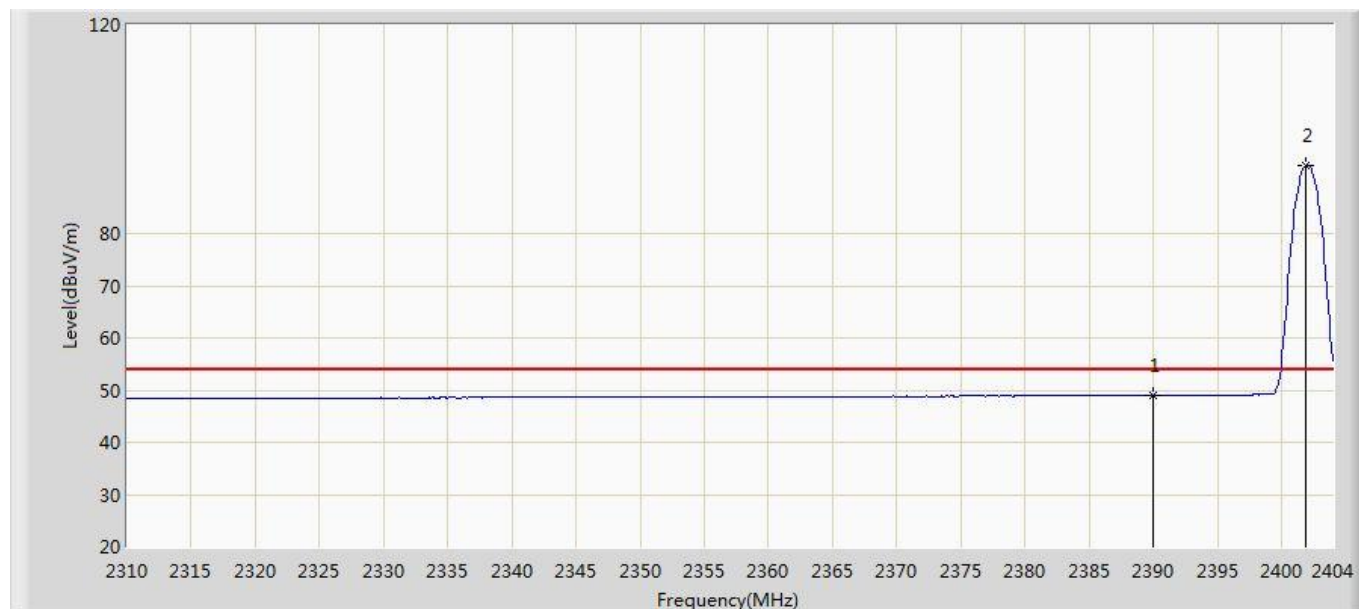
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.709	29.598	-11.291	74.000	33.111	PK
2	*	2401.932	105.068	71.908	N/A	N/A	33.160	PK

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

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



Site: AC102	Time: 2016/10/18 - 18:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2402MHz	



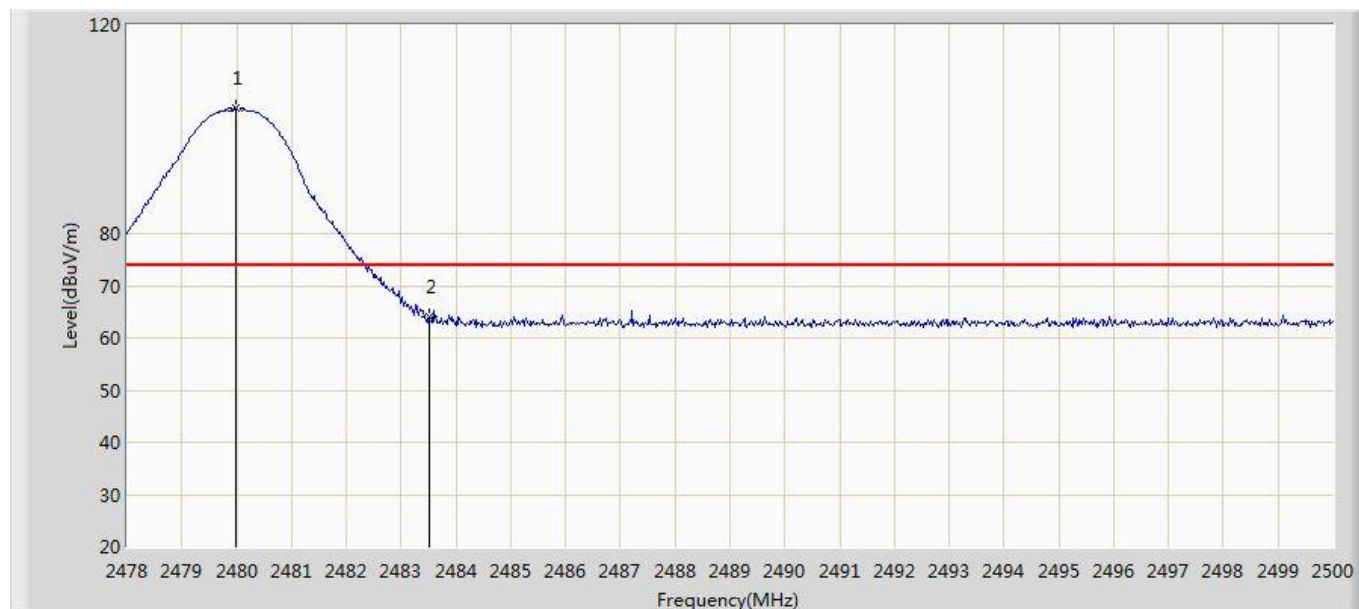
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.984	15.873	-5.016	54.000	33.111	AV
2	*	2401.838	92.975	59.815	N/A	N/A	33.160	AV

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

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



Site: AC102	Time: 2016/10/18 - 18:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2480MHz	



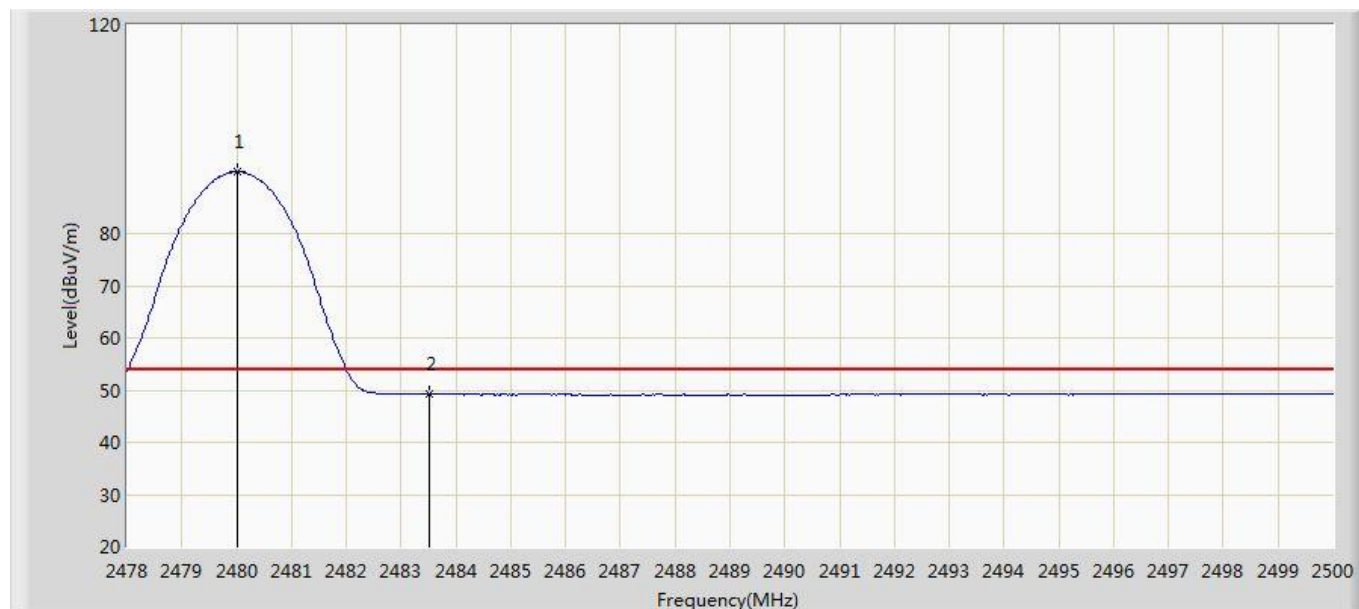
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2479.980	104.144	70.666	N/A	N/A	33.478	PK
2		2483.500	63.980	30.488	-10.020	74.000	33.493	PK

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

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



Site: AC102	Time: 2016/10/18 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2480MHz	



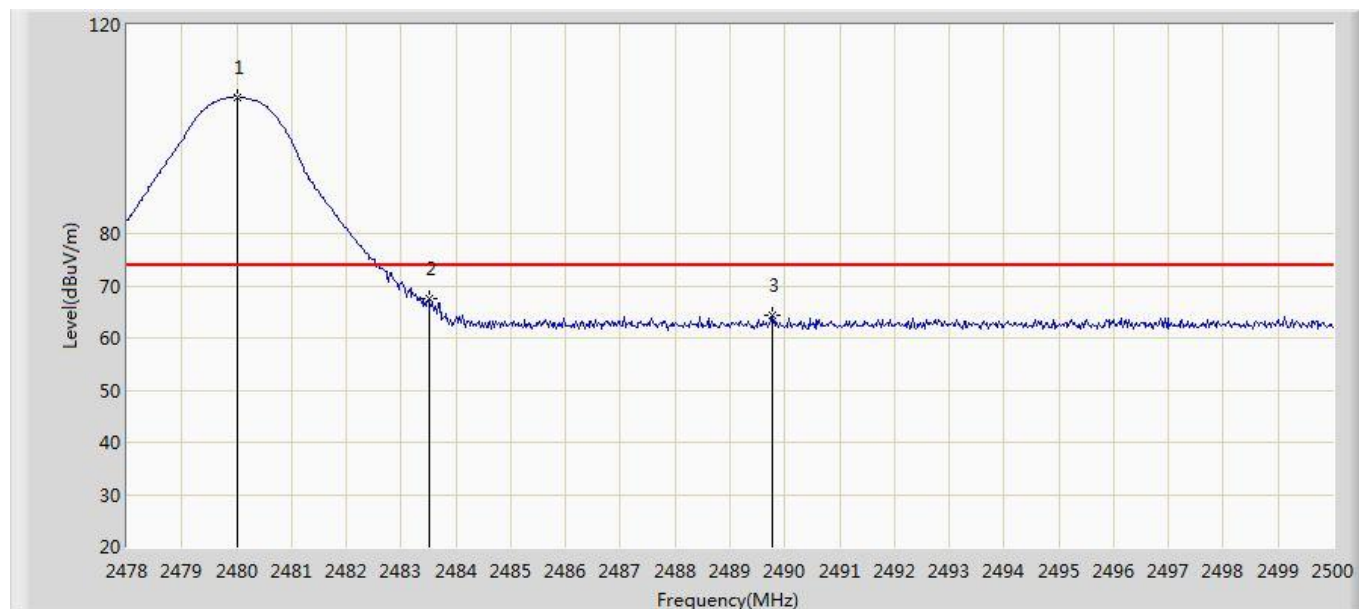
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	91.808	58.329	N/A	N/A	33.479	AV
2		2483.500	49.193	15.701	-4.807	54.000	33.493	AV

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

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



Site: AC102	Time: 2016/10/18 - 18:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	Power: AC 120V/60Hz
Note: Mode 3: Transmit 3DH5 at 2480MHz	



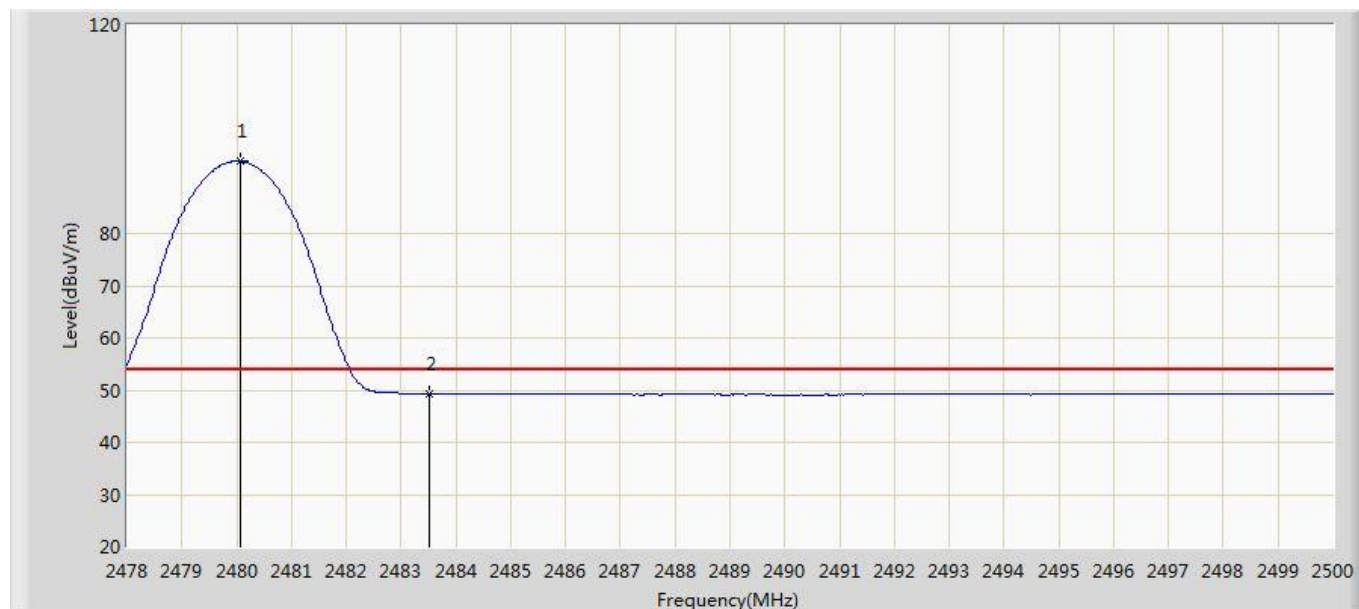
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2480.024	106.190	72.711	N/A	N/A	33.479	PK
2		2483.500	67.539	34.047	-6.461	74.000	33.493	PK
3		2489.770	64.291	30.773	-9.709	74.000	33.518	PK

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

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



Site: AC102	Time: 2016/10/18 - 18:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: LeEco Soundbar	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).



14. Appendix - Information On The Testing Laboratory

We, BUREAU VERITAS ADT (Shanghai) Corporation, were founded in 2004 to provide our best service in EMC, Radio and Vehicle consultation. Our laboratories are accredited by the following accreditation bodies according to ISO/IEC 17025 (2005) .

USA	A2LA Certificate No.: 2343.01
China	CNAS Certificate No.: L2810

Copies of accreditation certificates could be inquired from our office. If you have any comments, please feel free to contact us at the following:

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