



Test Report

FCC Part15 Subpart C & RSS 247 Issue2

Product Name : Wireless Stereo Headset
Model No. : CUHYA-0080
FCC ID : SZGCUHYA0080
IC : 7702A-CUHYA0080

Applicant : Weifang GoerTek Electronics Co.,Ltd.
Address : Gaoxin 2 Road,Free Trade Zone, Weifang, Shandong,
261205,P.R.China

Date of Receipt : Aug. 22nd, 2017
Test Date : Aug. 22nd, 2017~ Sep. 08th, 2017
Issued Date : Sep. 20th, 2017
Report No. : 1782103R-RF- US-P06V01
Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date : Sep.20th, 2017

Report No. : 1782103R-RF-US-P06V01



Product Name : Wireless Stereo Headset
Applicant : Weifang GoerTek Electronics Co.,Ltd.
Address : Gaoxin 2 Road,Free Trade Zone, Weifang, Shandong,
261205,P.R.China
Manufacturer : Weifang GoerTek Electronics Co.,Ltd.
Address : Gaoxin 2 Road,Free Trade Zone, Weifang, Shandong,
261205,P.R.China
Model No. : CUHYA-0080
FCC ID : SZGCUHYA0080
IC : 7702A-CUHYA0080
EUT Voltage : DC 3.7V
Test Voltage : AC 120V/60Hz
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2015
ANSI C63.4:2014; ANSI C63.10:2013;
KDB 558074 D01v04
RSS GEN:Issue 4
RSS247: Issue 2
Test Result : Complied
Performed Location : DEKRA Testing & Certification (Suzhou) Co., Ltd.
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TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Registration Number: CN1199; IC Lab Code: 4075B

Documented By :



(Project Assistant: Kathy Feng)

Reviewed By :



(Senior Engineer: Frank He)

Approved By :



(Engineering Manager: Harry Zhao)

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1782103R-RF-US-P06V01	V1.0	Initial Issued Report	Sep. 20th, 2017

1. General Information

1.1. EUT Description

Product Name	Wireless Stereo Headset
Model No.	CUHYA-0080
EUT Voltage	DC 3.7V
Test Voltage	AC 120V/60Hz
Wireless Specification	Special 2.4GHz wireless
Frequency Range	2405.35- 2477.35 MHz
Channel Number	37
Channel Separation	2MHz
Type of Modulation	Pi/4 DQPSK
Data Rate	1Mbps
Antenna Type	Reference to Antenna List
Peak Antenna Gain	Reference to Antenna List

1.2. Working Frequency of Each Channel:

Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
02	2405.35 MHz	03	2407.35 MHz	04	2409.35 MHz	05	2411.35 MHz
06	2413.35 MHz	07	2415.35 MHz	08	2417.35 MHz	09	2419.35 MHz
10	2421.35 MHz	11	2423.35 MHz	12	2425.35 MHz	13	2427.35 MHz
14	2429.35 MHz	15	2431.35 MHz	16	2433.35 MHz	17	2435.35 MHz
18	2437.35 MHz	19	2439.35 MHz	20	2441.35 MHz	21	2443.35 MHz
22	2445.35 MHz	23	2447.35 MHz	24	2449.35 MHz	25	2451.35 MHz
26	2453.35 MHz	27	2455.35 MHz	28	2457.35 MHz	29	2459.35 MHz
30	2461.35 MHz	31	2463.35 MHz	32	2465.35 MHz	33	2467.35 MHz
34	2469.35 MHz	35	2471.35 MHz	36	2473.35 MHz	37	2475.35 MHz
38	2477.35 MHz	N/A	N/A	N/A	N/A	N/A	N/A

1.3. Antenna information

Antenna manufacturer	N/A					
Antenna Delivery	☒	1*TX+1*RX	☐	2*TX+2*RX	☐	3*TX+3*RX
Antenna technology	☒	SISO				
	☐	MIMO	☐	Basic		
			☐	CDD		
			☐	Beam-forming		
Antenna Type	☐	External	☐	Dipole		
	☒	Internal	☐	PIFA		
			☒	PCB		
			☐	Ceramic Chip Antenna		
			☐	Stamping Antenna		
			☐	Metal plate type F antenna		
	Antenna Gain #0	1.76dBi				
Antenna Gain #1	1.76dBi					

1.4. Mode of Operation

Test Mode
Mode 1: Transmit-1Mbps(Pi/4 DQPSK)

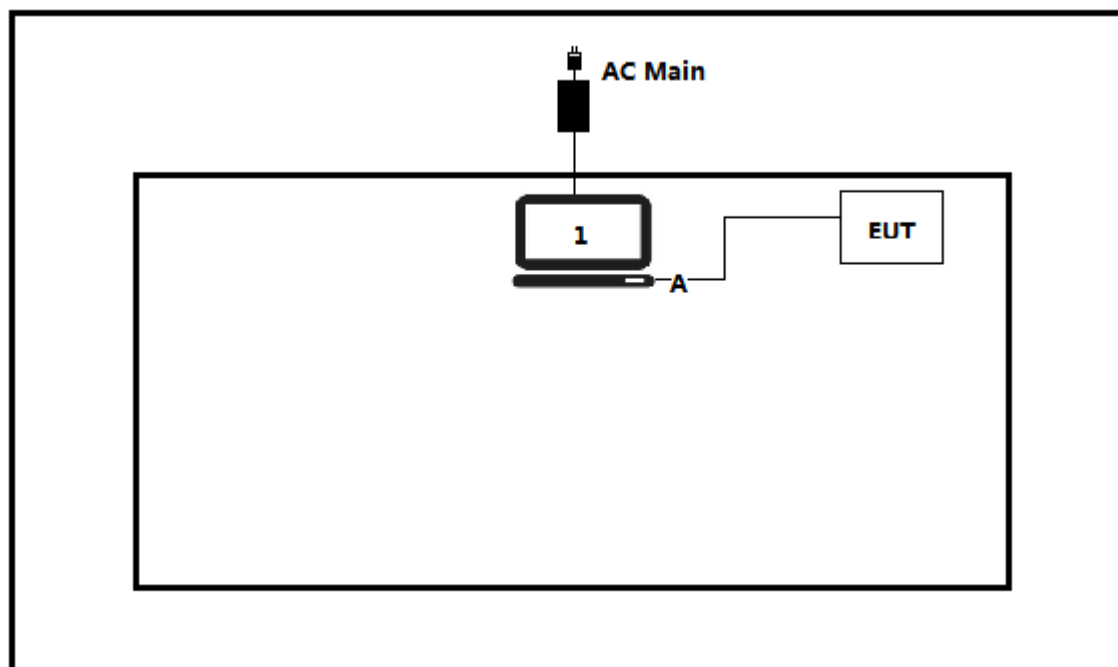
1.5. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

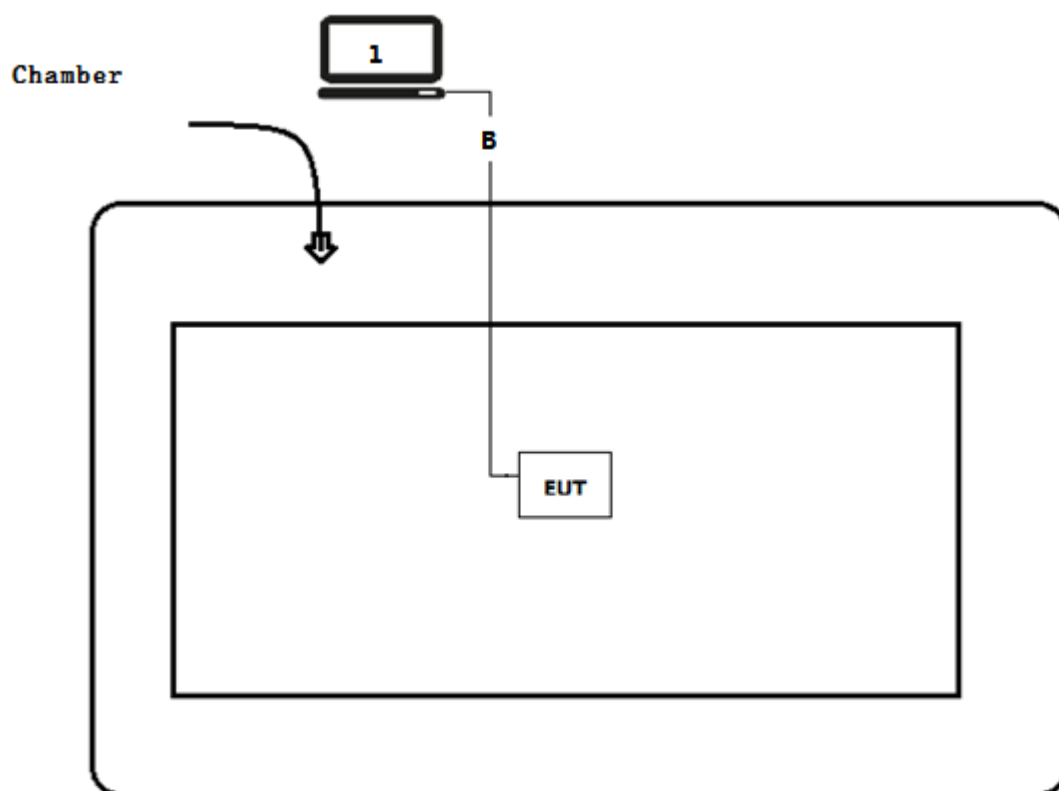
No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Think Pad	2526	LV-A3285	Power by adapter
A	USB Cable	N/A	N/A	N/A	Shield, 0.75m
B	USB Cable	N/A	N/A	N/A	Shield, 10m

1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



1.7. EUT Exercise Software

1	Setup the EUT as shown on above.
2	Turn on the power of all equipment.
3	Input the RF commands, and set the test mode and channel, then press OK to start continue receive.

2. Technical Test

2.1. Summary of Test Result

For FCC:

Performed Test Item	Normative References	Worst case mode	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.207	Mode 1	FCC 15.207	PASS
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.209	Mode 1	FCC 15.209	PASS
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(d)	Mode 1	$\geq 20\text{dBc}$	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2015 15.247(d)	Mode 1	FCC 15.209	PASS
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(2)	Mode 1	$\geq 500\text{kHz}$	PASS
Fundamental emission output power	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(b)(3)	Mode 1	$\leq 30\text{dBm}$	PASS
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(e)	Mode 1	$\leq 8\text{dBm}/3\text{kHz}$	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.203	N/A	FCC 15.203	PASS

For ISED:

Performed Test Item	Normative References	Worst case mode	Limit	Result
AC Power Line Conducted Emission	RSS-Gen Issue 4 Section 8.8	N/A	RSS-Gen	PASS
Emissions in restricted frequency bands	RSS-Gen Issue 4 Section 8.9	Mode 1	RSS-Gen	PASS
Emissions in non-restricted frequency bands	RSS-247 Issue 2 Section 5.5	Mode 1	$\geq 20\text{dBc}$	PASS
Radiated Emission Band Edge	RSS-Gen Issue 4 Section 8.10	Mode 1	RSS-Gen	PASS
Occupied Bandwidth	RSS-Gen Issue 4 Section 6.6 RSS-247 Issue 2 Section 5.2(a)	Mode 1	$\geq 500\text{kHz}$	PASS
Fundamental emission output power	RSS-247 Issue 2 Section 5.4(d)	Mode 1	$\leq 30\text{dBm}$	PASS
Power Spectral Density	RSS-247 Issue 2 Section 5.2(b)	Mode 1	$\leq 8\text{dBm}/3\text{kHz}$	PASS
Antenna Requirement	RSS-Gen Issue 4 Section 8.3	N/A	RSS-Gen Issue 4	PASS

2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
BLE	02	2405.35 MHz	20	2441.35 MHz	38	2477.35MHz

2.3. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

2.4. Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	$\pm 2.02\text{dB}$
Radiated Emission	Below 1GHz $\pm 3.8\text{ dB}$
	Above 1GHz $\pm 3.9\text{ dB}$
RF Antenna Port Conducted Emission	$\pm 1.27\text{dB}$
Radiated Emission Band Edge	$\pm 3.9\text{dB}$
Occupied Bandwidth	$\pm 1\text{kHz}$
Power Spectral Density	$\pm 1.27\text{dB}$

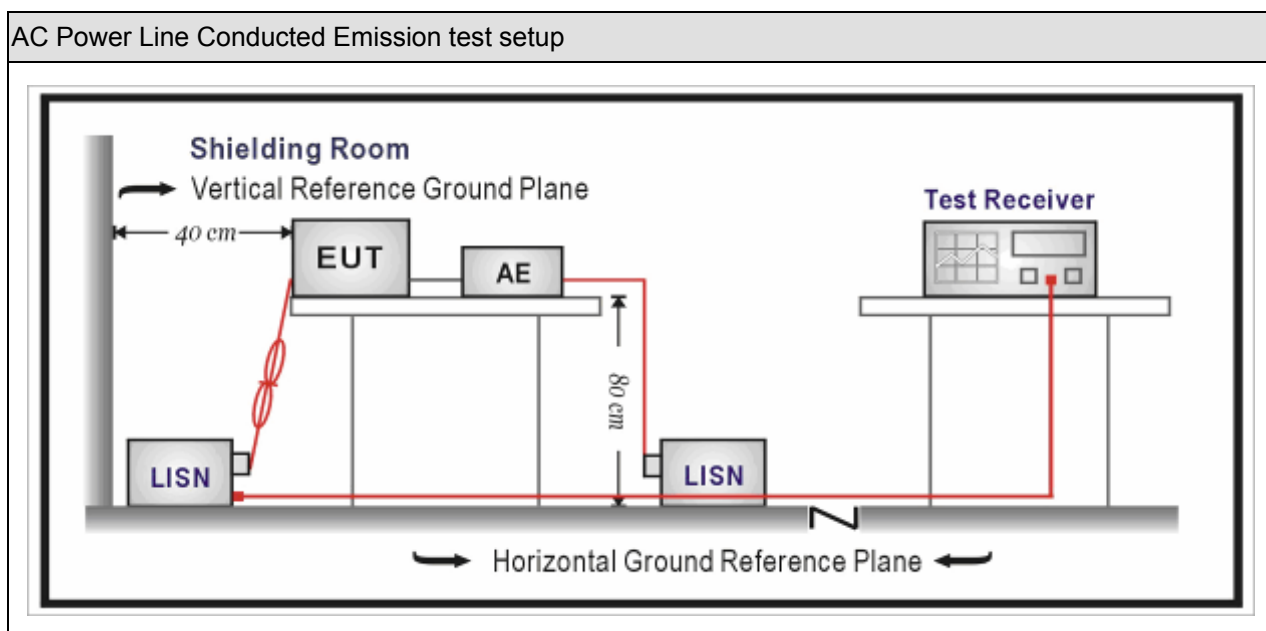
3. AC Power Line Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2017.03.05	2018.03.04
Two-Line V-Network	R&S	ENV 216	101189	2016.07.16	2018.07.15
Two-Line V-Network	R&S	ENV 216	101044	2016.09.16	2017.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2016.09.16	2017.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2017.01.04	2018.01.03

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

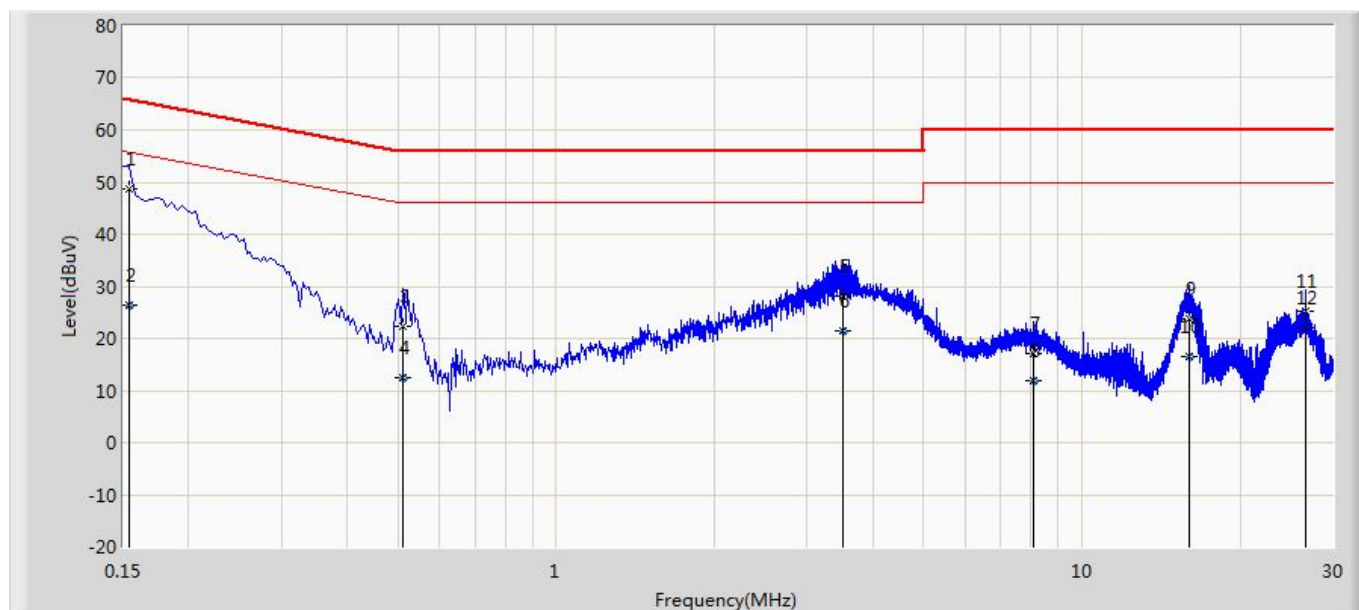
Frequency of Emission (MHz)	Conducted Limit	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: The lower limit shall apply at the transition frequencies.		
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices
☒	ANSI C63.4-2014	7	AC power-line conducted emission measurements

3.5. Test Result

Engineer: Lucas	
Site: TR1	Time: 2017/08/28
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1	



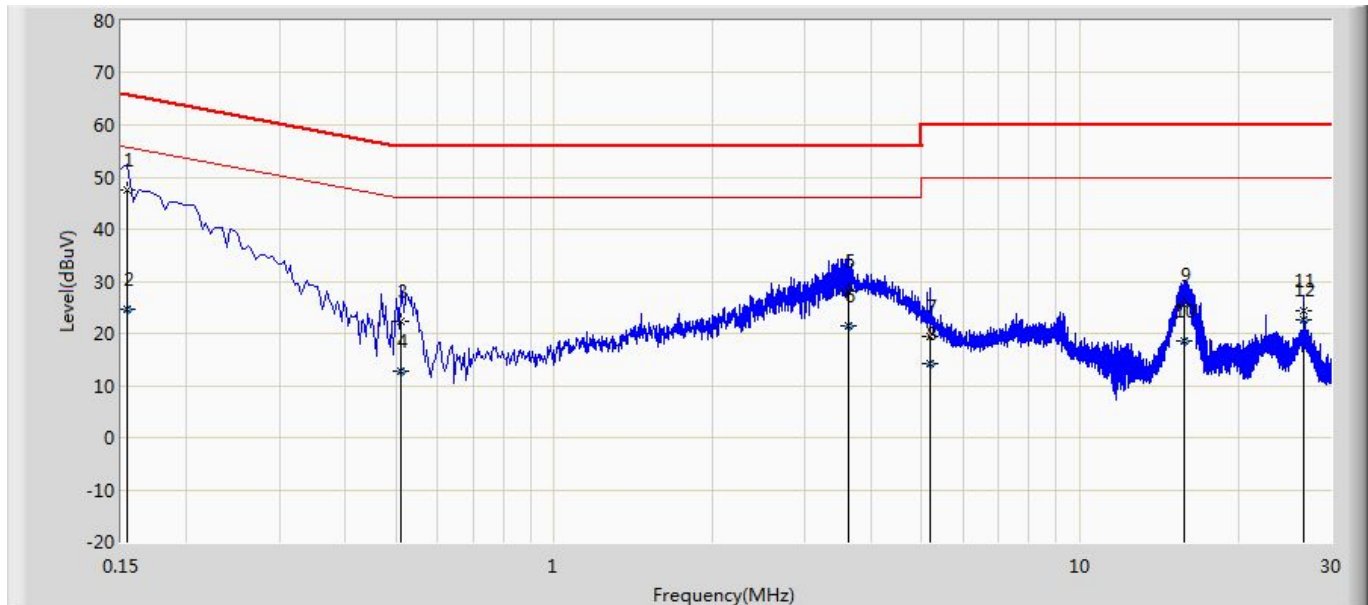
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.154	48.567	38.933	-17.214	65.781	9.609	0.025	0.000	QP
2		0.154	26.420	16.785	-29.362	55.781	9.609	0.025	0.000	AV
3		0.510	22.284	12.641	-33.716	56.000	9.600	0.043	0.000	QP
4		0.510	12.486	2.843	-33.514	46.000	9.600	0.043	0.000	AV
5		3.506	28.108	18.355	-27.892	56.000	9.635	0.118	0.000	QP
6		3.506	21.409	11.655	-24.591	46.000	9.635	0.118	0.000	AV
7		8.110	17.082	7.175	-42.918	60.000	9.726	0.181	0.000	QP
8		8.110	11.794	1.887	-38.206	50.000	9.726	0.181	0.000	AV
9		15.986	23.794	13.589	-36.206	60.000	9.947	0.257	0.000	QP
10		15.986	16.427	6.222	-33.573	50.000	9.947	0.257	0.000	AV
11		26.626	25.226	14.451	-34.774	60.000	10.441	0.335	0.000	QP
12		26.626	22.137	11.361	-27.863	50.000	10.441	0.335	0.000	AV

Note:

1. " * ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: Lucas	
Site: TR1	Time: 2017/08/28
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.154	47.647	38.029	-18.134	65.781	9.593	0.025	0.000	QP
2		0.154	24.741	15.122	-31.041	55.781	9.593	0.025	0.000	AV
3		0.510	22.430	12.797	-33.570	56.000	9.590	0.043	0.000	QP
4		0.510	12.830	3.196	-33.170	46.000	9.590	0.043	0.000	AV
5		3.634	28.258	18.506	-27.742	56.000	9.632	0.121	0.000	QP
6		3.634	21.527	11.774	-24.473	46.000	9.632	0.121	0.000	AV
7		5.186	19.518	9.719	-40.482	60.000	9.655	0.145	0.000	QP
8		5.186	14.226	4.426	-35.774	50.000	9.655	0.145	0.000	AV
9		15.806	25.632	15.381	-34.368	60.000	9.996	0.256	0.000	QP
10		15.806	18.575	8.324	-31.425	50.000	9.996	0.256	0.000	AV
11		26.626	24.224	13.249	-35.776	60.000	10.641	0.335	0.000	QP
12		26.626	22.493	11.518	-27.507	50.000	10.641	0.335	0.000	AV

Note:

1. " * ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

4. Emissions in restricted frequency bands

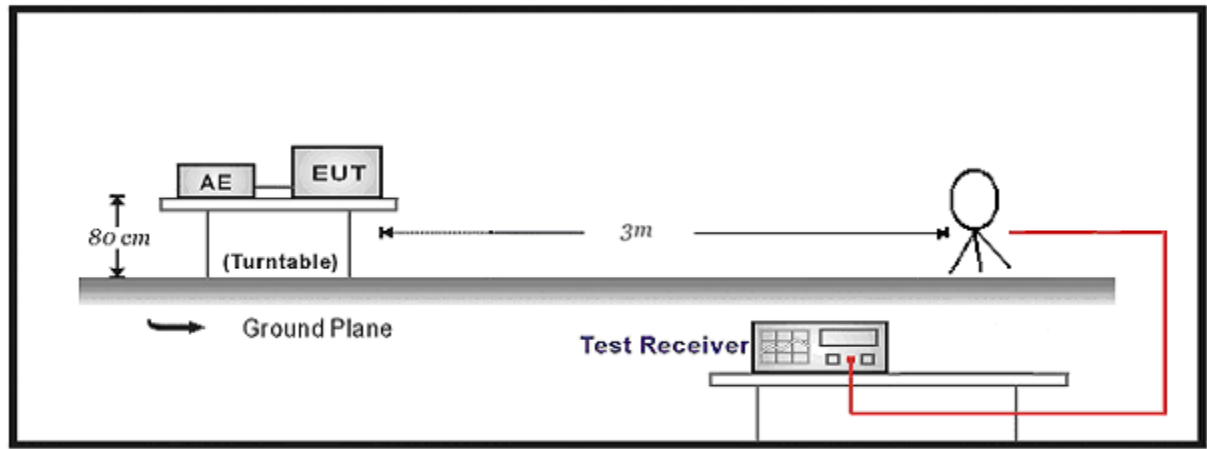
4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2017.03.29	2018.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2016.11.16	2017.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2016.10.16	2017.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2018.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.03	2018.01.02
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

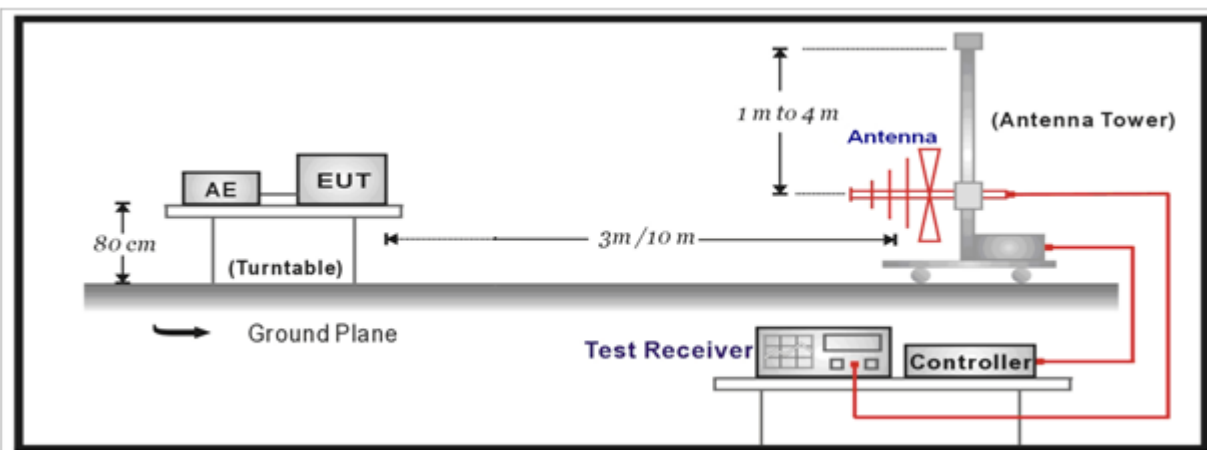
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2017.05.06	2018.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2017.05.06	2018.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2017.01.22	2018.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2017.03.02	2018.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2018.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

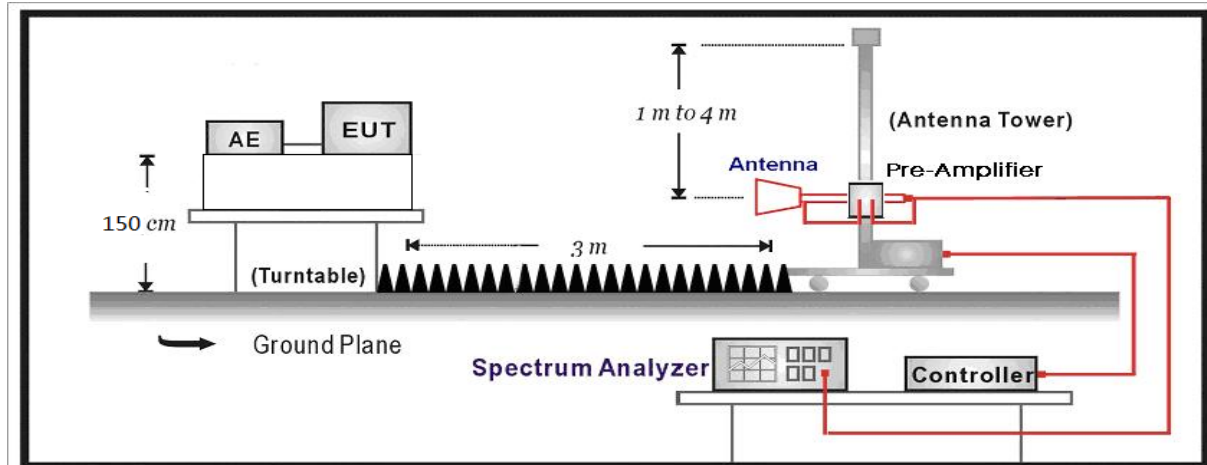
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit FCC

Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

IC

Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090-0.110	13.36-13.41	1645.5-1646.5	9.0-9.2
2.1735-2.1905	16.42-16.423	1660-1710	9.3-9.5
3.020-3.026	16.69475-16.69525	1718.8-1722.2	10.6-12.7
4.125-4.128	16.80425-16.80475	2200-2300	13.25-13.4
4.17725-4.17775	25.5-25.67	2310-2390	14.47-14.5
4.20725-4.20775	37.5-38.25	2655-2900	15.35-16.2
5.677-5.683	73-74.6	3260-3267	17.7-21.4
6.215-6.218	74.8-75.2	3332-3339	22.01-23.12
6.26775-6.26825	108-138	3345.8-3358	23.6-24.0
6.31175-6.31225	156.52475-156.52525	3500-4400	31.2-31.8
8.291-8.294	156.7-156.9	4500-5150	36.43-36.5
8.362-8.366	240-285	5350-5460	Above 38.6
8.37625-8.38675	322-335.4	7250-7750	
8.41425-8.41475	399.9-410	8025-8500	
12.29-12.293	608-614		
12.51975-12.52025	960-1427		
12.57675-12.57725	1435-1626.5		

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

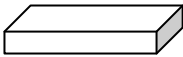
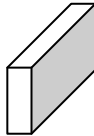
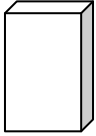
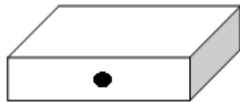
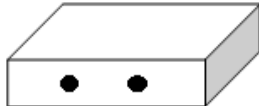
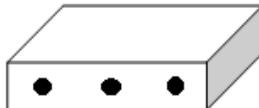
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.4. Test Procedure

Test Method				
	References Rule		Chapter	Description
☐	ANSI C63.10		11.11	Emissions in non-restricted frequency bands
	☐	ANSI C63.10	11.11.2	Reference level measurement
	☐	ANSI C63.10	11.11.3	Emission level measurement
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
		ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
		ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	☐	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
		ANSI C63.10	11.12.2.4	Peak power measurement procedure
		ANSI C63.10	11.12.2.5	Average power measurement procedures
	☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
		ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
		☒	ANSI C63.10	11.12.2.5.3 Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

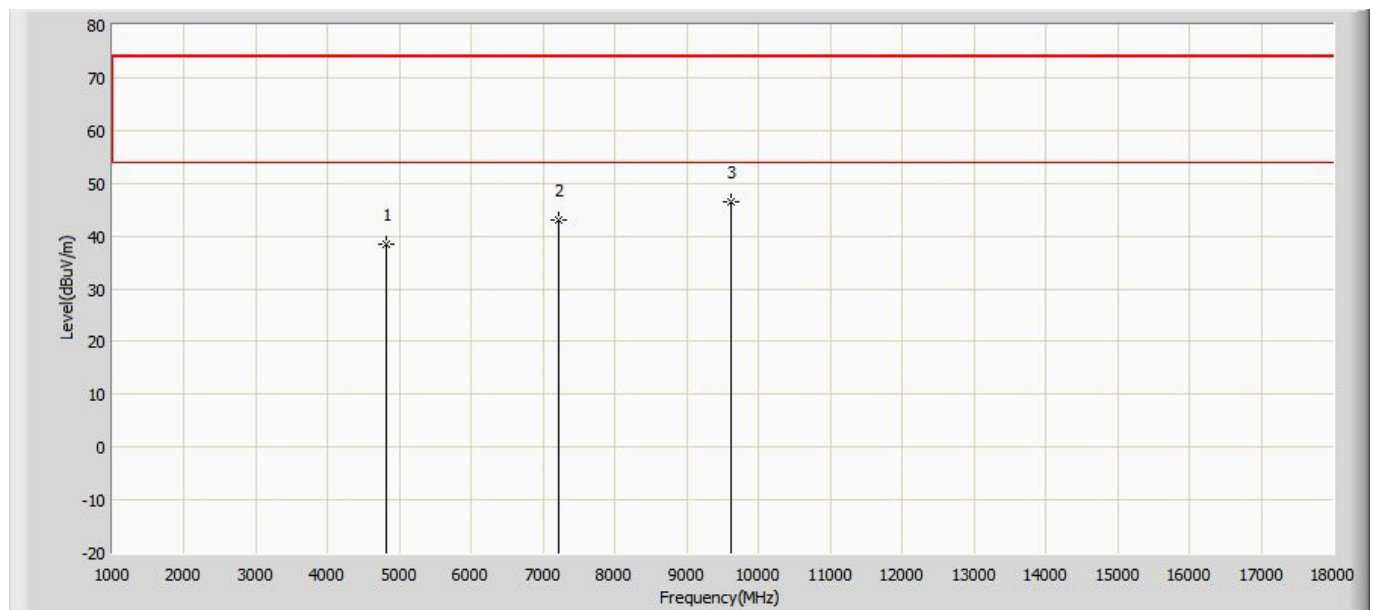
4.5. EUT test Axis definition

Item	Emissions in restricted frequency bands			
Device Category	☐	Fixed point-to-point		
	☐	Emit multiple directional beams, simultaneously or sequentially		
	☒	Other cases		
Test mode	Mode 1			
Test method	☒	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☒	Worst Axis ☐	Worst Axis ☐
	☐	Conducted		
	☐	Chain 0		
				
	☐	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

4.6. Test Result

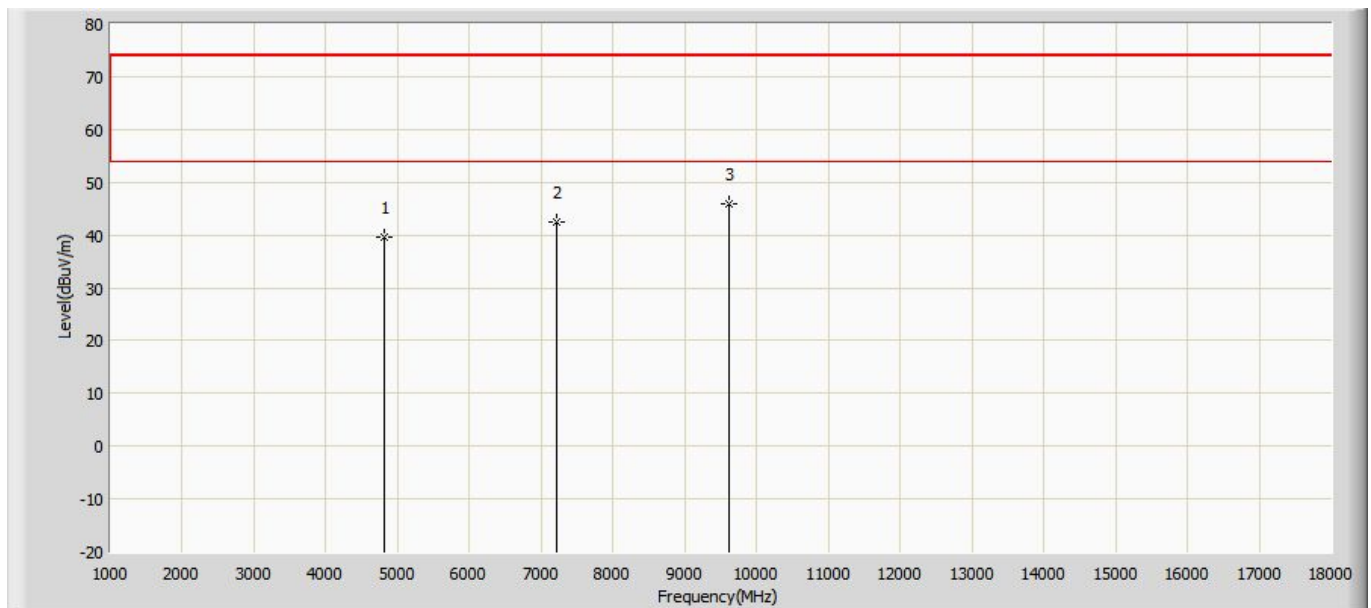
Ant 0:

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



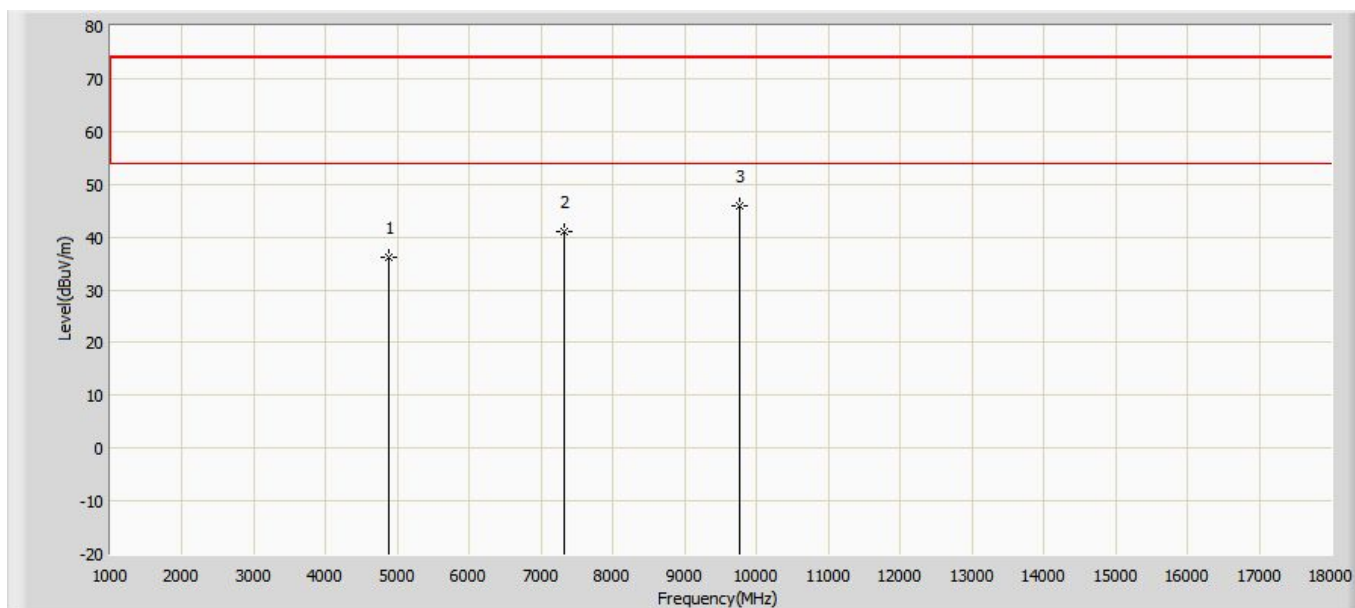
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.700	38.349	51.359	-35.651	74.000	-13.010	PK
2		7216.050	43.063	50.773	-30.937	74.000	-7.710	PK
3	*	9621.400	46.346	47.936	-27.654	74.000	-1.590	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



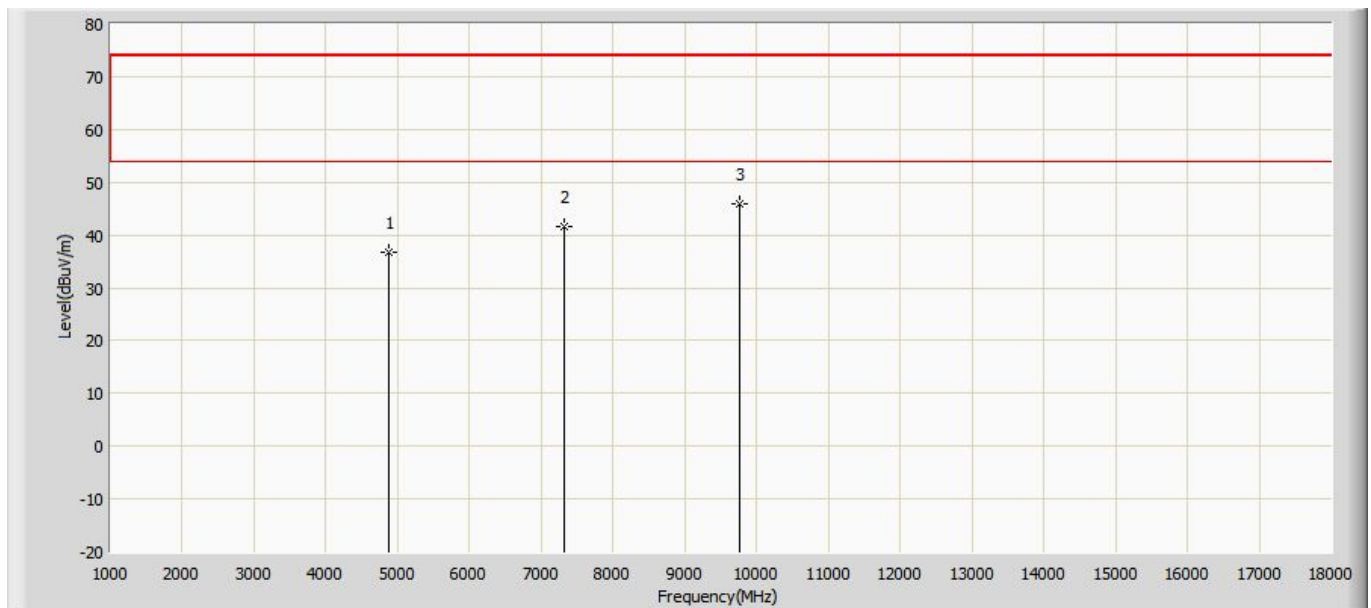
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.700	39.632	52.642	-34.368	74.000	-13.010	PK
2		7216.050	42.456	50.166	-31.544	74.000	-7.710	PK
3	*	9621.400	45.863	47.453	-28.137	74.000	-1.590	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



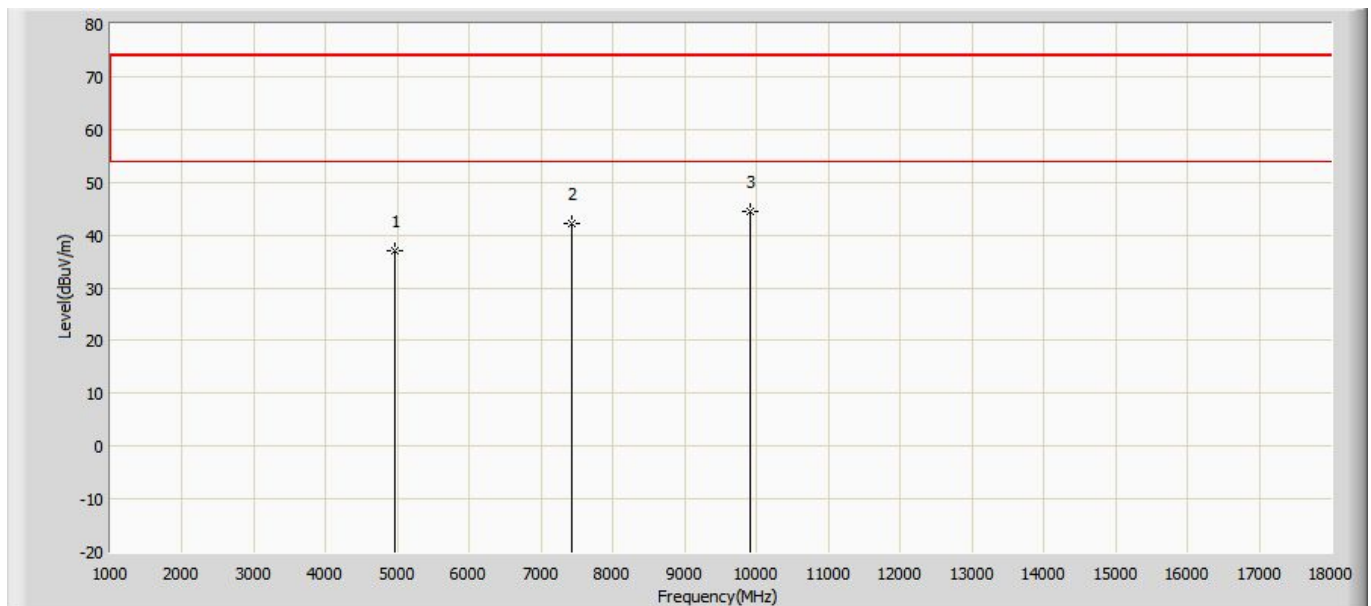
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.700	36.116	49.126	-37.884	74.000	-13.010	PK
2		7324.050	41.126	48.836	-32.874	74.000	-7.710	PK
3	*	9765.400	45.842	47.432	-28.158	74.000	-1.590	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



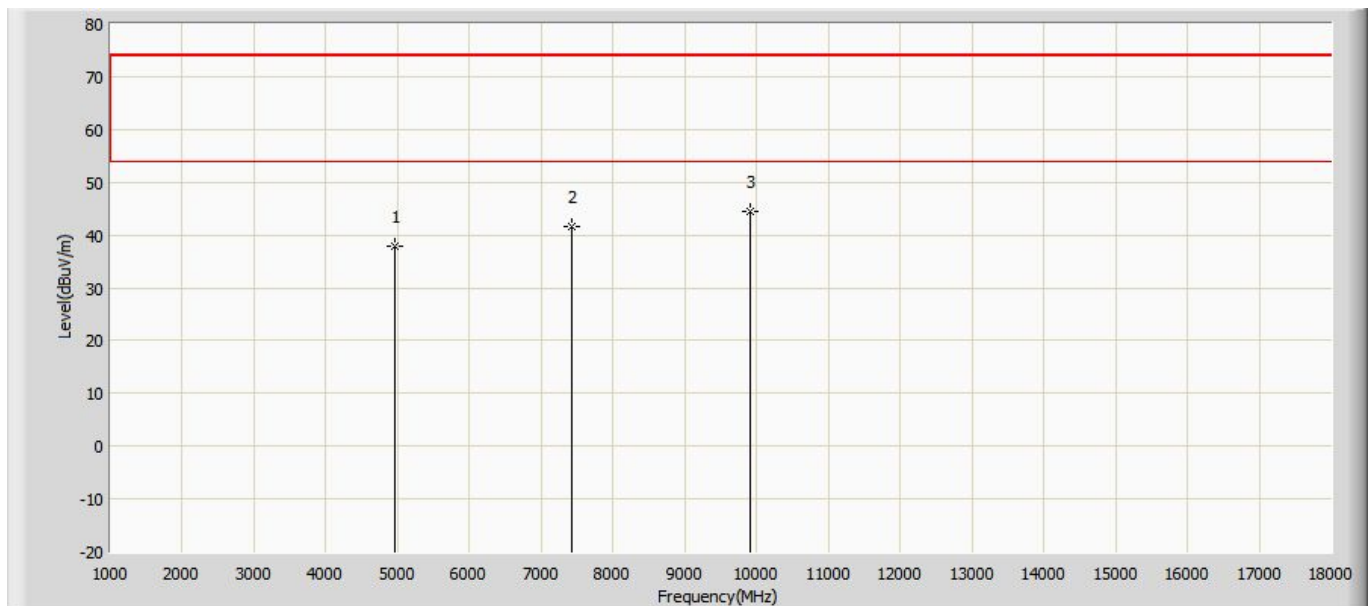
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.700	36.828	49.838	-37.172	74.000	-13.010	PK
2		7324.050	41.539	49.249	-32.461	74.000	-7.710	PK
3	*	9765.400	45.887	47.477	-28.113	74.000	-1.590	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4954.700	36.978	49.208	-37.022	74.000	-12.230	PK
2		7432.050	42.104	48.764	-31.896	74.000	-6.660	PK
3	*	9909.400	44.530	46.490	-29.470	74.000	-1.960	PK

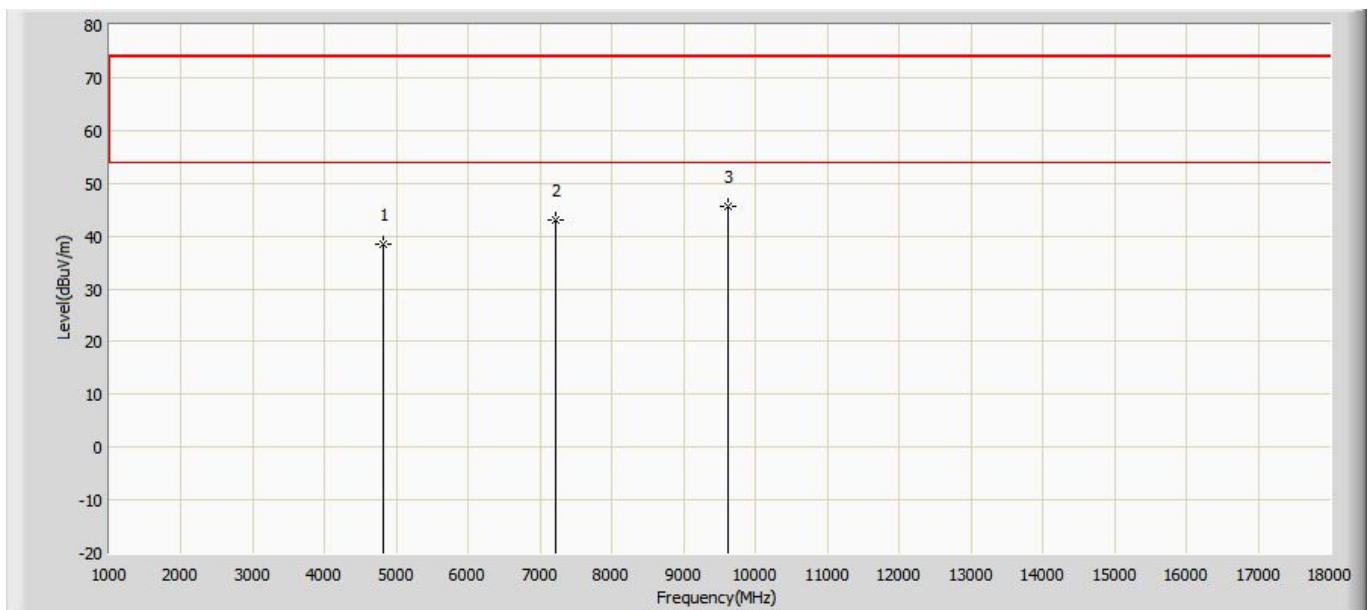
Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4954.700	37.861	50.091	-36.139	74.000	-12.230	PK
2		7432.050	41.496	48.156	-32.504	74.000	-6.660	PK
3	*	9909.400	44.486	46.446	-29.514	74.000	-1.960	PK

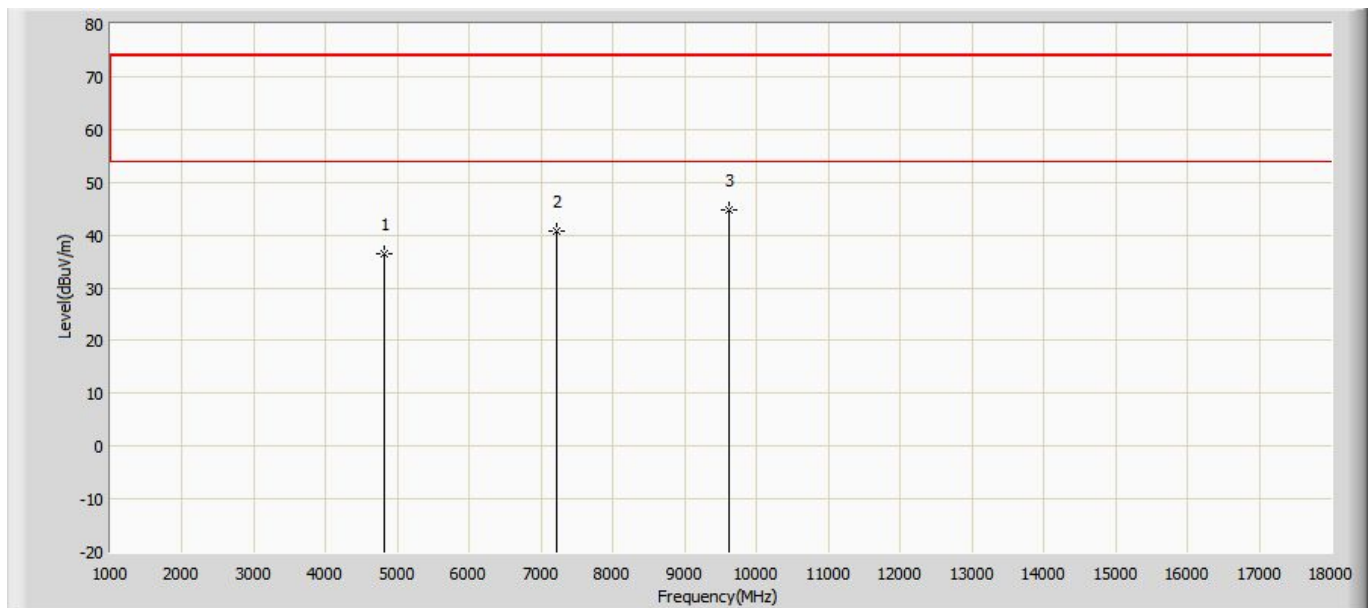
Ant 1:

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



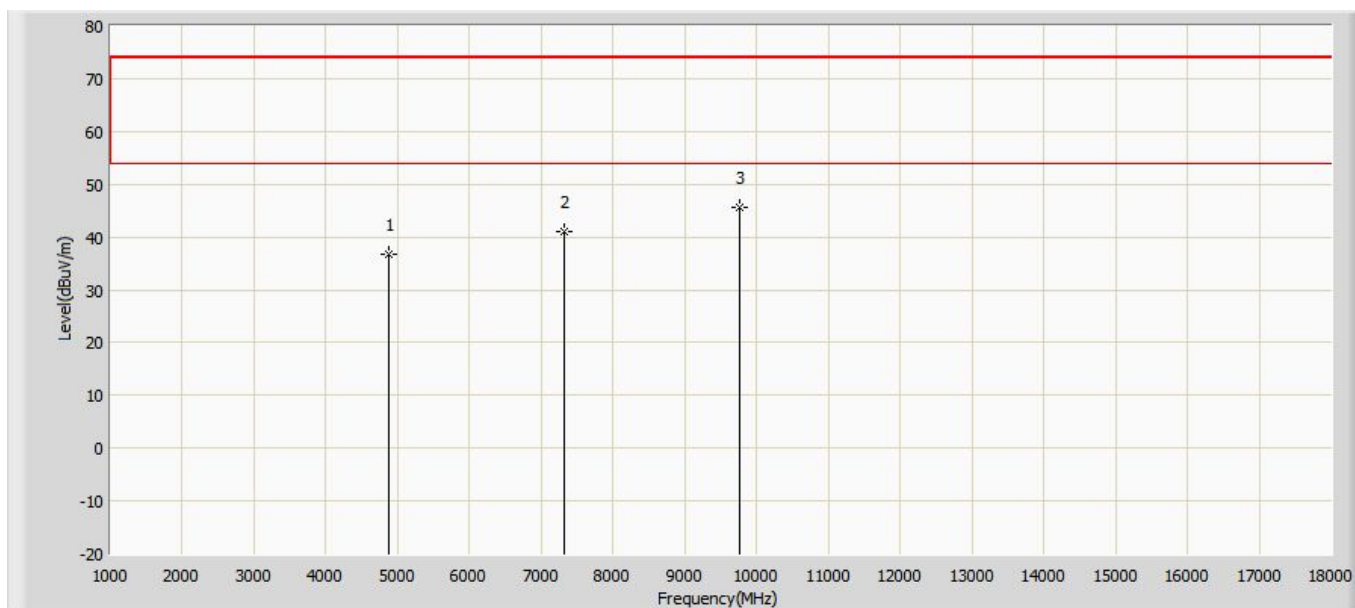
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.700	38.443	51.453	-35.557	74.000	-13.010	PK
2		7216.050	42.931	50.641	-31.069	74.000	-7.710	PK
3	*	9621.400	45.743	47.333	-28.257	74.000	-1.590	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



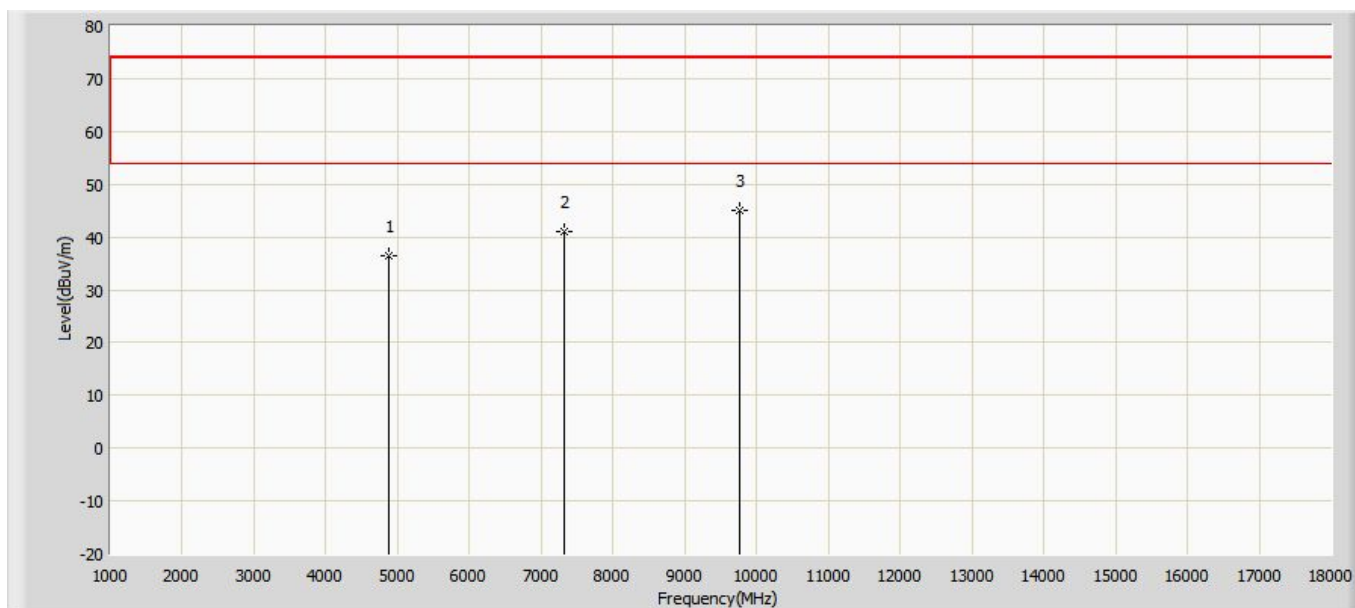
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.700	36.448	49.458	-37.552	74.000	-13.010	PK
2		7216.050	40.640	48.350	-33.360	74.000	-7.710	PK
3	*	9621.400	44.752	46.342	-29.248	74.000	-1.590	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



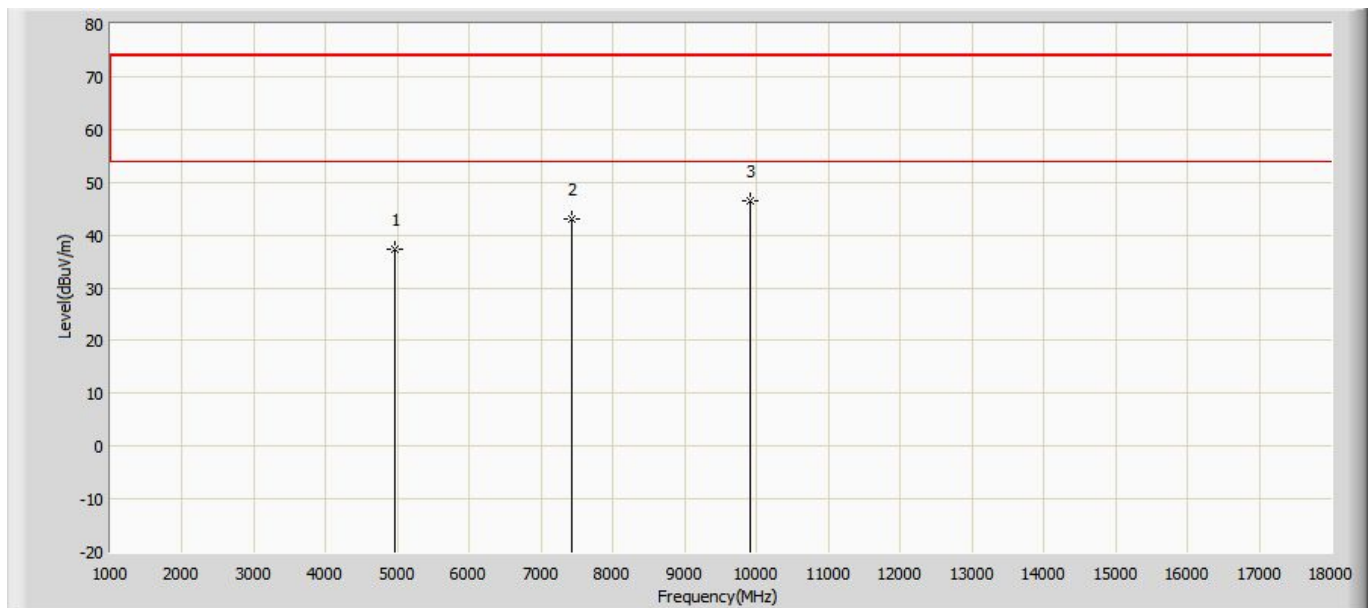
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.700	36.789	49.799	-37.211	74.000	-13.010	PK
2		7324.050	41.172	48.882	-32.828	74.000	-7.710	PK
3	*	9765.400	45.651	47.241	-28.349	74.000	-1.590	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



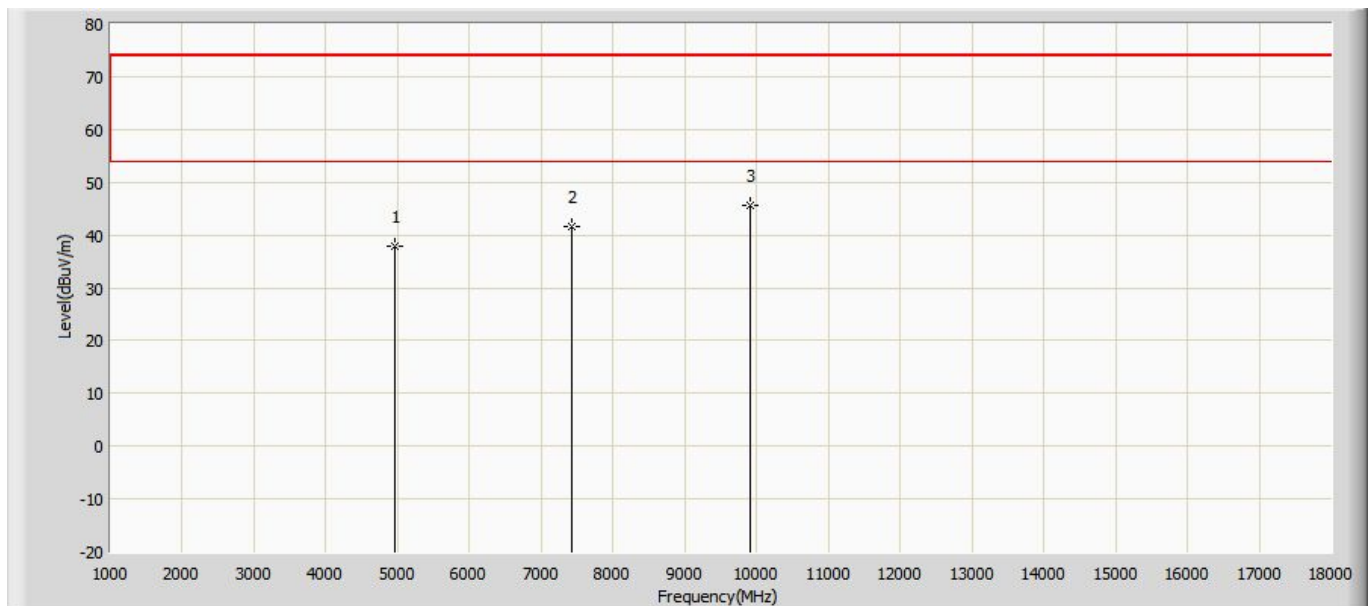
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.700	36.557	49.567	-37.443	74.000	-13.010	PK
2		7324.050	41.018	48.728	-32.982	74.000	-7.710	PK
3	*	9765.400	45.097	46.687	-28.903	74.000	-1.590	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4954.700	37.333	49.563	-36.667	74.000	-12.230	PK
2		7432.050	43.157	49.817	-30.843	74.000	-6.660	PK
3	*	9909.400	46.388	48.348	-27.612	74.000	-1.960	PK

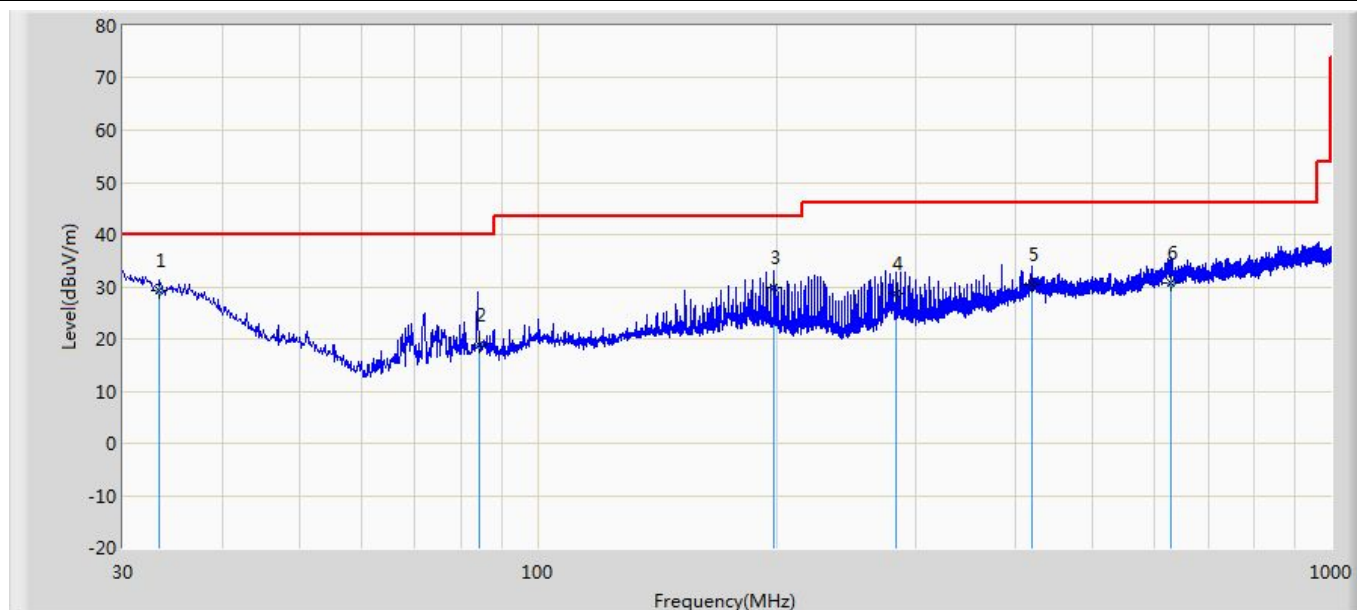
Engineer: Slark	
Site: AC5	Time: 2017/09/05 - 14:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4954.700	37.828	50.058	-36.172	74.000	-12.230	PK
2		7432.050	41.724	48.384	-32.276	74.000	-6.660	PK
3	*	9909.400	45.702	47.662	-28.298	74.000	-1.960	PK

The worst case of Radiated Emission below 1GHz:

Site: AC3	Time: 2017/08/25
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1 :Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK) ant 1	

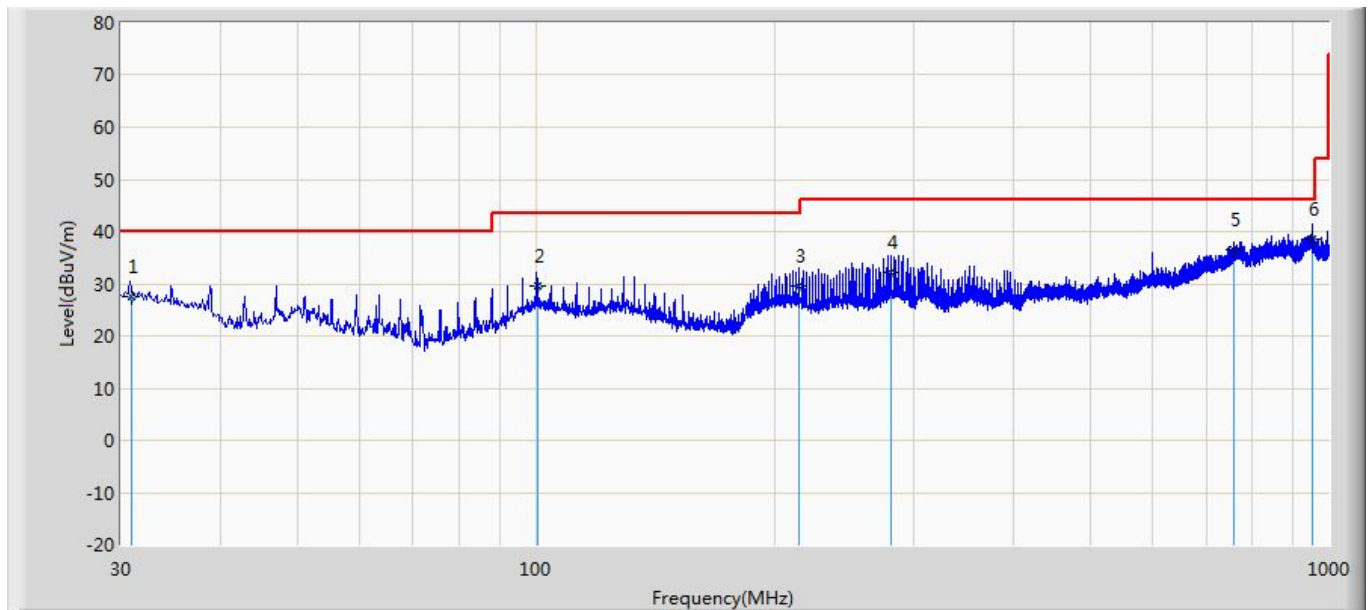


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	33.346	29.294	3.100	-10.706	40.000	19.719	6.475	0.000	100	196	QP
2		84.436	18.878	5.100	-21.122	40.000	6.997	6.781	0.000	100	246	QP
3		198.463	29.908	12.200	-13.592	43.500	10.426	7.282	0.000	100	104	QP
4		282.461	28.597	7.700	-17.403	46.000	13.338	7.558	0.000	100	133	QP
5		419.463	30.443	3.400	-15.557	46.000	19.084	7.959	0.000	200	291	QP
6		627.134	30.866	1.100	-15.134	46.000	21.268	8.498	0.000	100	84	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: AC3	Time: 2017/08/25
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1 :Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK) ant 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		30.915	27.610	3.800	-12.390	40.000	17.350	6.460	0.000	100	124	QP
2		100.462	29.501	7.400	-13.999	43.500	15.249	6.853	0.000	200	188	QP
3		215.126	29.664	6.800	-13.836	43.500	15.530	7.334	0.000	200	49	QP
4		280.722	32.271	7.600	-13.729	46.000	17.116	7.555	0.000	100	31	QP
5		760.160	36.599	4.700	-9.401	46.000	23.103	8.795	0.000	200	49	QP
6	*	954.346	38.537	4.800	-7.463	46.000	24.525	9.212	0.000	200	336	QP

Note:

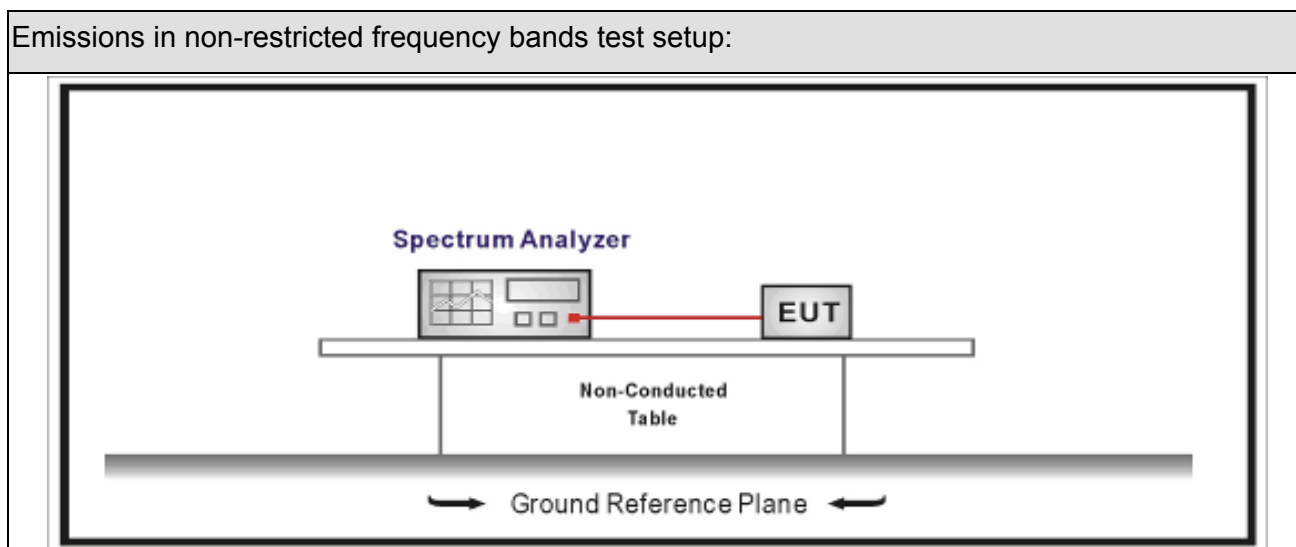
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

5. Emissions in non-restricted frequency bands

5.1. Test Equipment

Emissions in non-restricted frequency bands / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

5.2. Test Setup



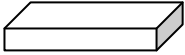
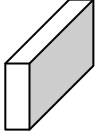
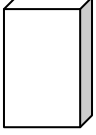
5.3. Limit

Un-Restricted Band Emissions Limit	
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30c(Note1)
RF Output power(PK detector)	20c(Note2)
Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc). Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).	

5.4. Test Procedure

Test Method					
	References Rule		Chapter	Description	
☒	ANSI C63.10		11.11	Emissions in non-restricted frequency bands	
	☒	ANSI C63.10	11.11.2	Reference level measurement	
	☒	ANSI C63.10	11.11.3	Emission level measurement	
☐	ANSI C63.10		11.12	Emissions in restricted frequency bands	
	☐	ANSI C63.10	11.12.1	Radiated emission measurements	
	☐	ANSI C63.10	11.12.2.7	Radiated spurious emission test	
☐	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz	
☐	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz	
☐	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz	
	☒	ANSI C63.10		11.12.2	Antenna-port conducted measurements
		☐	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
		☒	ANSI C63.10	11.12.2.4	Peak power measurement procedure
		☐	ANSI C63.10	11.12.2.5	Average power measurement procedures
		☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
		☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
		☐	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

5.5. EUT test Axis definition

Item	Emissions in non-restricted frequency bands			
Device Category	☐	Fixed point-to-point		
	☐	Emit multiple directional beams, simultaneously or sequentially		
	☒	Other cases		
Test mode	Mode 1			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 0		
				
	☐	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

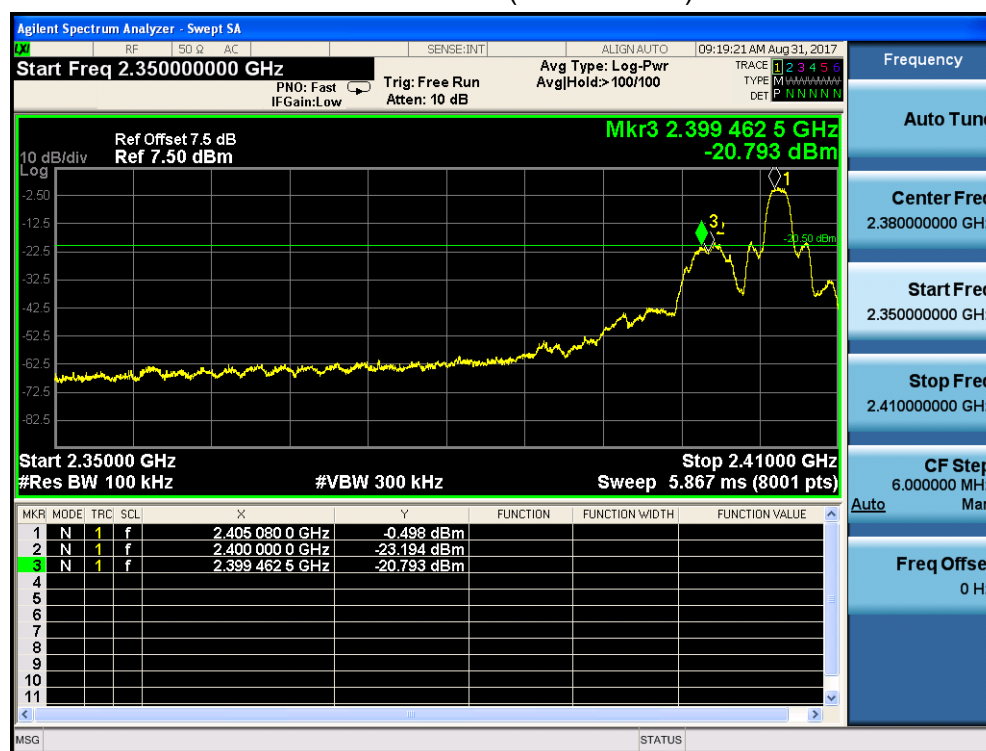
5.6. Test Result

Product Name	: Wireless Stereo Headset	Power	: AC 120V/60Hz
Test Mode	: Mode 1	Test Site	: TR-8
Test Date	: 2017.08.31		

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	02	2405.35	-0.498	2400.00	-20.793	20.295	>20	Pass
1	38	2477.35	1.344	2500.00	-61.455	62.799	>20	Pass

Note: The worst case of Emissions in non-restricted frequency bands as below:

Mode 1 CH02 (2405.35MHz)



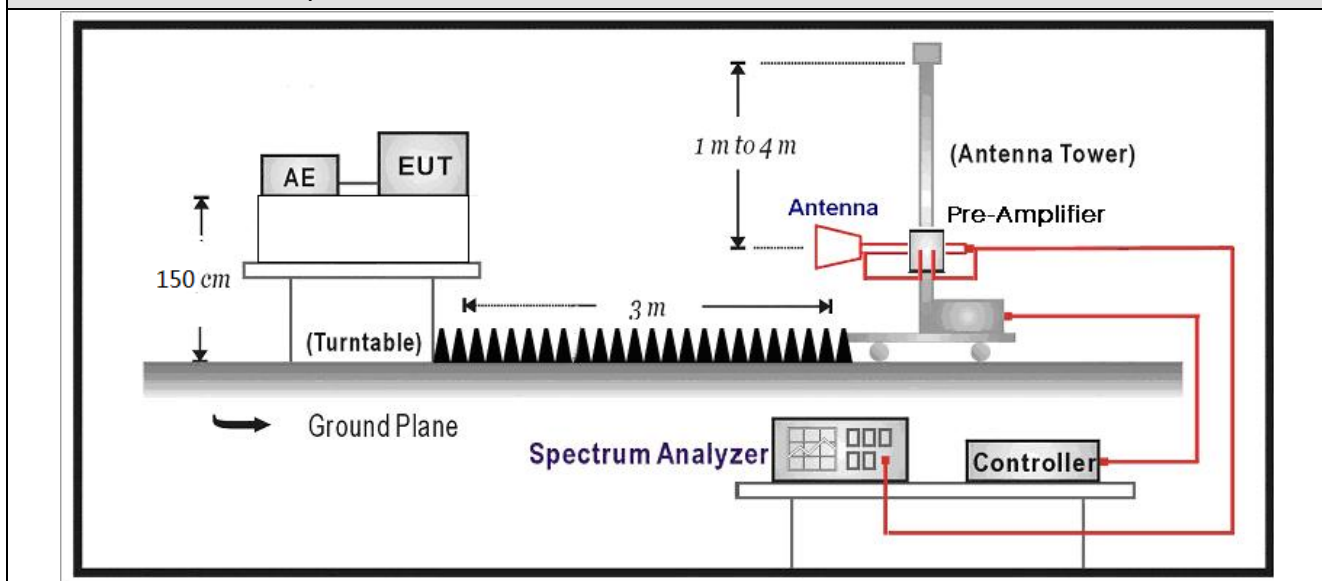
6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2017.07.16	2018.07.15
Pre-Amplifier	Miteq	NSP1800-25	1364185	2017.05.03	2018.05.02
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2017.07.12	2018.07.11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.09.18	2017.09.17
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.02.28	2018.02.27
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.02.28	2018.02.27
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.05	2018.01.04

6.2. Test Setup

Above 1GHz Test Setup:



6.3. Limit

Band edge Limit

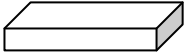
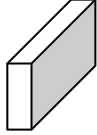
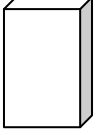
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

6.4. Test Procedure

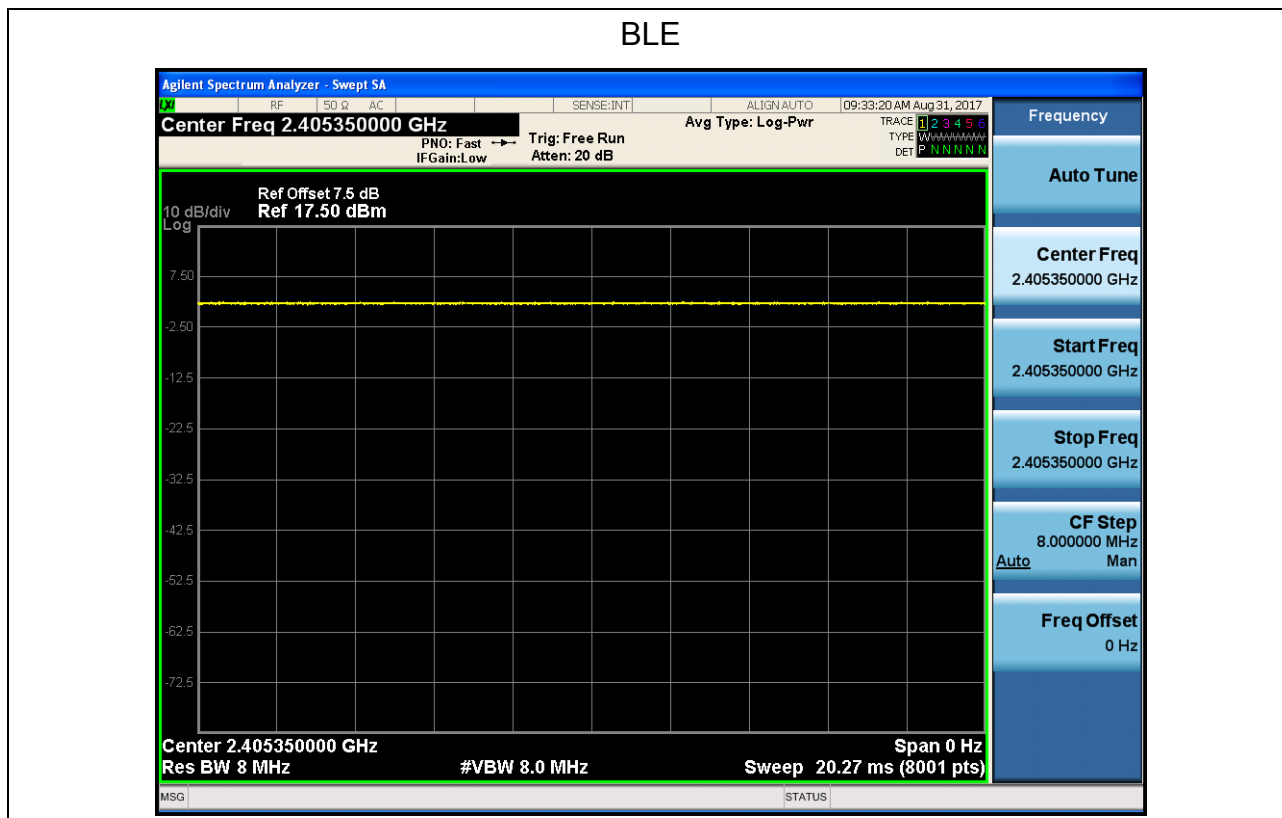
Test Method						
	References Rule			Chapter	Description	
☒	ANSI C63.10			6.10	Band-edge testing	
	☒	ANSI C63.10		6.10.5	Restricted-band band-edge measurements	
	☐	ANSI C63.10		6.10.6	Marker-delta method	
☒	ANSI C63.10			11.12	Emissions in restricted frequency bands	
	☒	ANSI C63.10		11.12.1	Radiated emission measurements	
	☒	ANSI C63.10		11.12.2.7	Radiated spurious emission test	
☐	ANSI C63.10			6.4	Radiated emissions from unlicensed wireless devices below 30 MHz	
☐	ANSI C63.10			6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz	
☒	ANSI C63.10			6.6	Radiated emissions from unlicensed wireless devices above 1 GHz	
		☐	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure	
		☒	ANSI C63.10	11.12.2.4	Peak power measurement procedure	
		☒	ANSI C63.10	11.12.2.5	Average power measurement procedures	
			☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☒	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

6.5. EUT test definition

Item	Radiated Emission Band Edge			
Device Category	☐	Fixed point-to-point		
	☐	Emit multiple directional beams, simultaneously or sequentially		
	☒	Other cases		
Test mode	Mode 1			
Test method	☒	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☒	Worst Axis ☐	Worst Axis ☐
	☐	Conducted		
	☐	Chain 0		
				
	☐	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

6.6. Duty Cycle

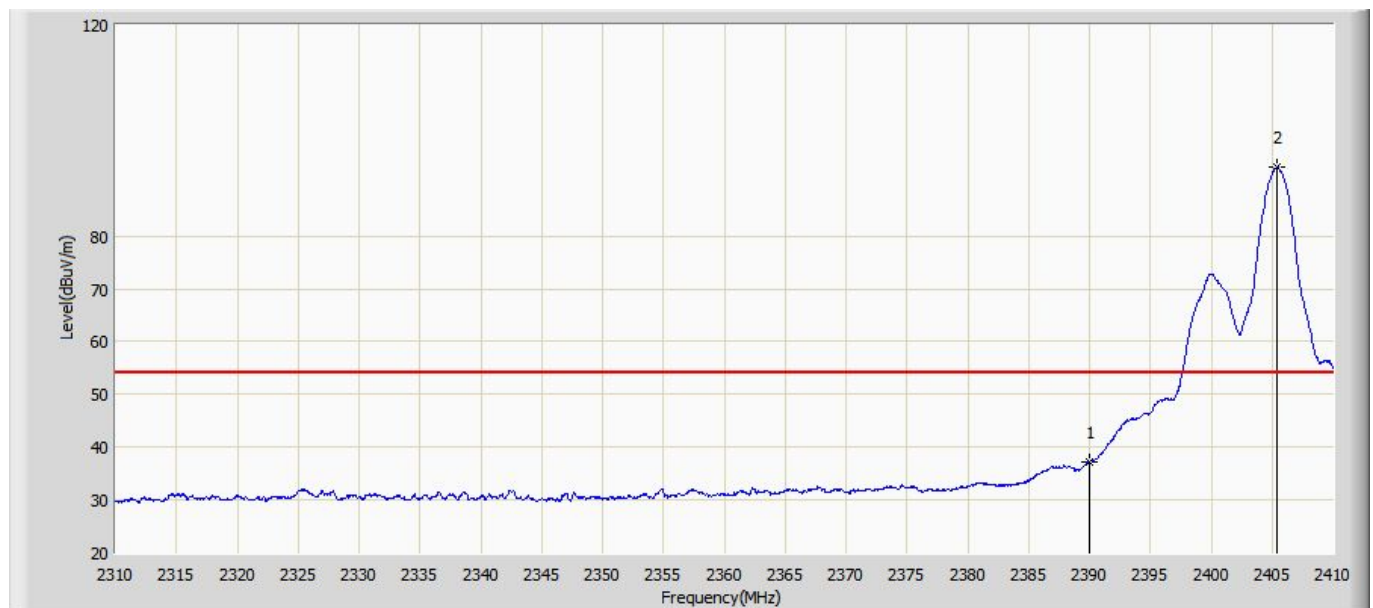
Test Mode	Tx On (ms)	Tx Off (ms)	Reduced VBW (Hz)	Tx On + Tx Off (ms)	Duty Cycle
BLE	N/A	N/A	10	N/A	100%



6.7 Test Result

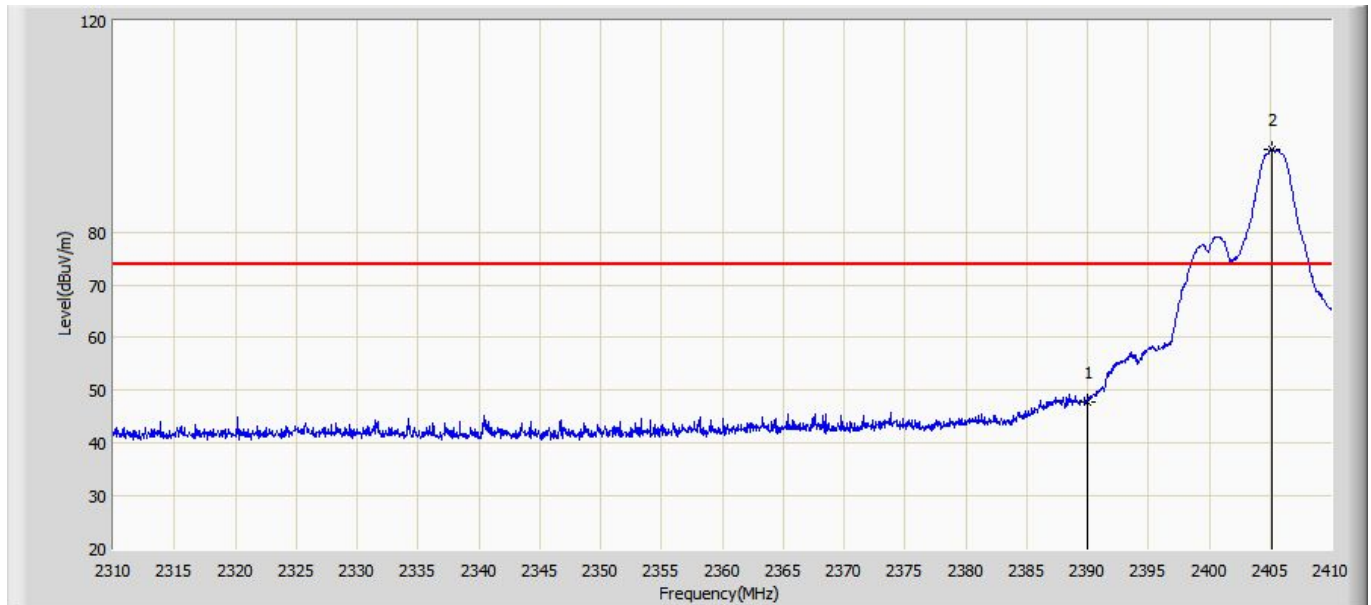
Ant 0:

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



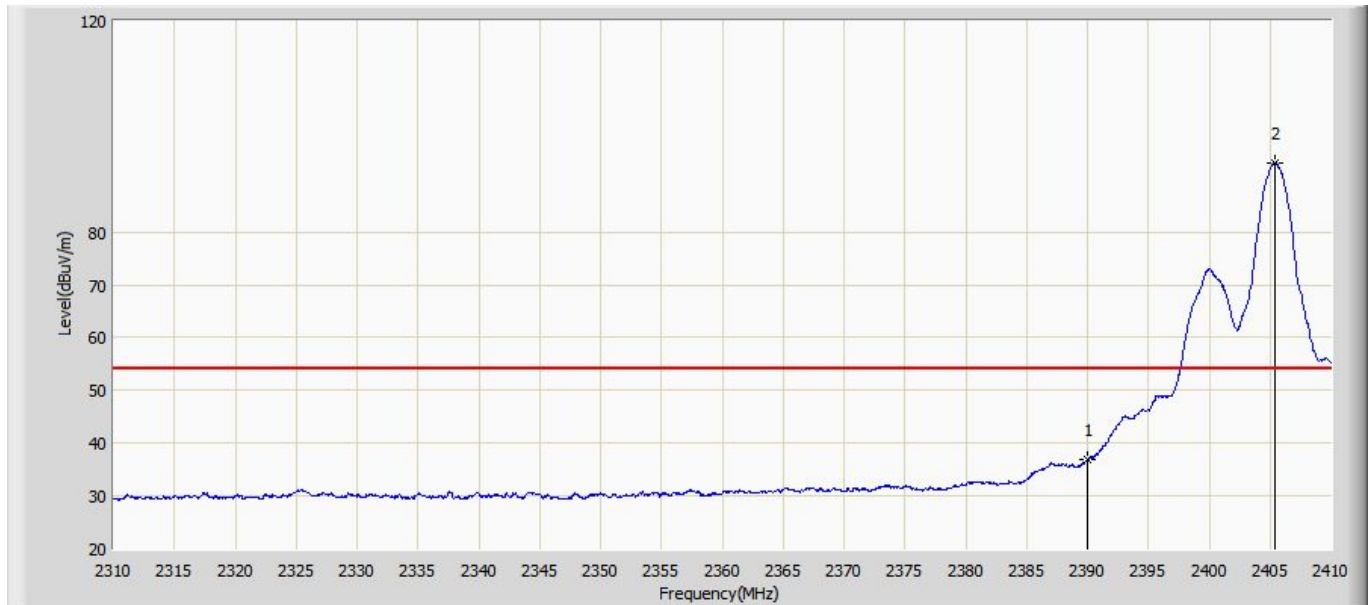
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	37.224	8.176	-16.776	54.000	29.048	AV
2	*	2405.400	93.043	64.119	NA	NA	28.924	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



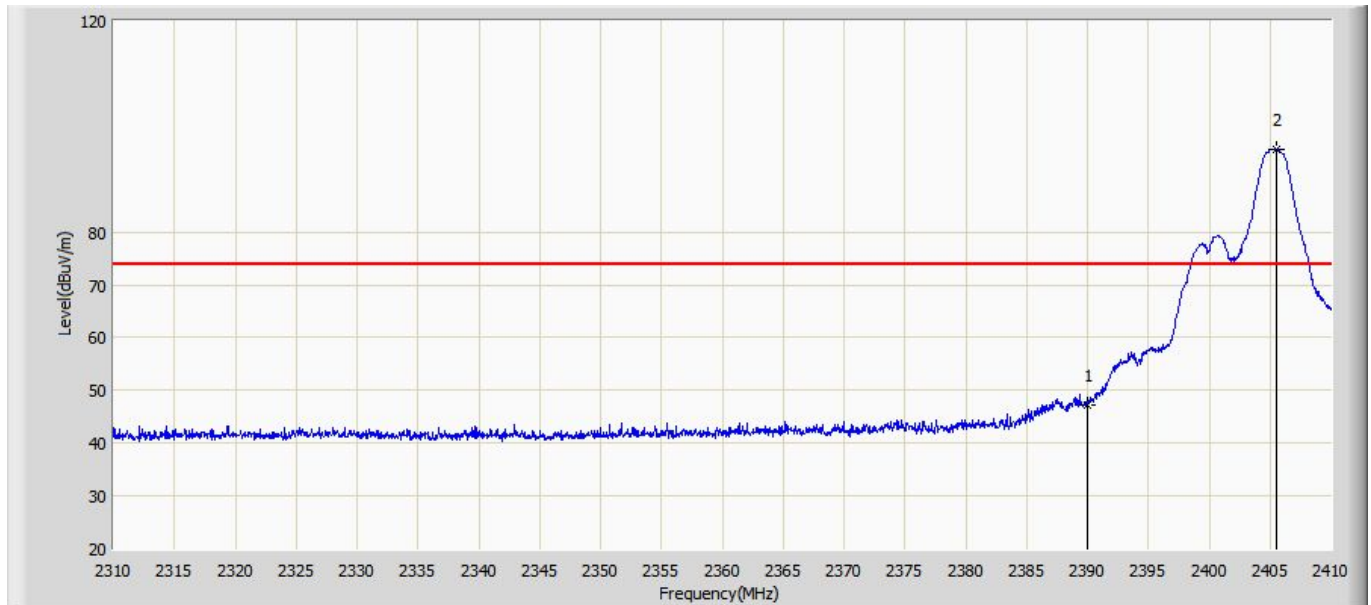
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	47.893	18.845	-26.107	74.000	29.048	PK
2	*	2405.100	95.625	66.698	NA	NA	28.927	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



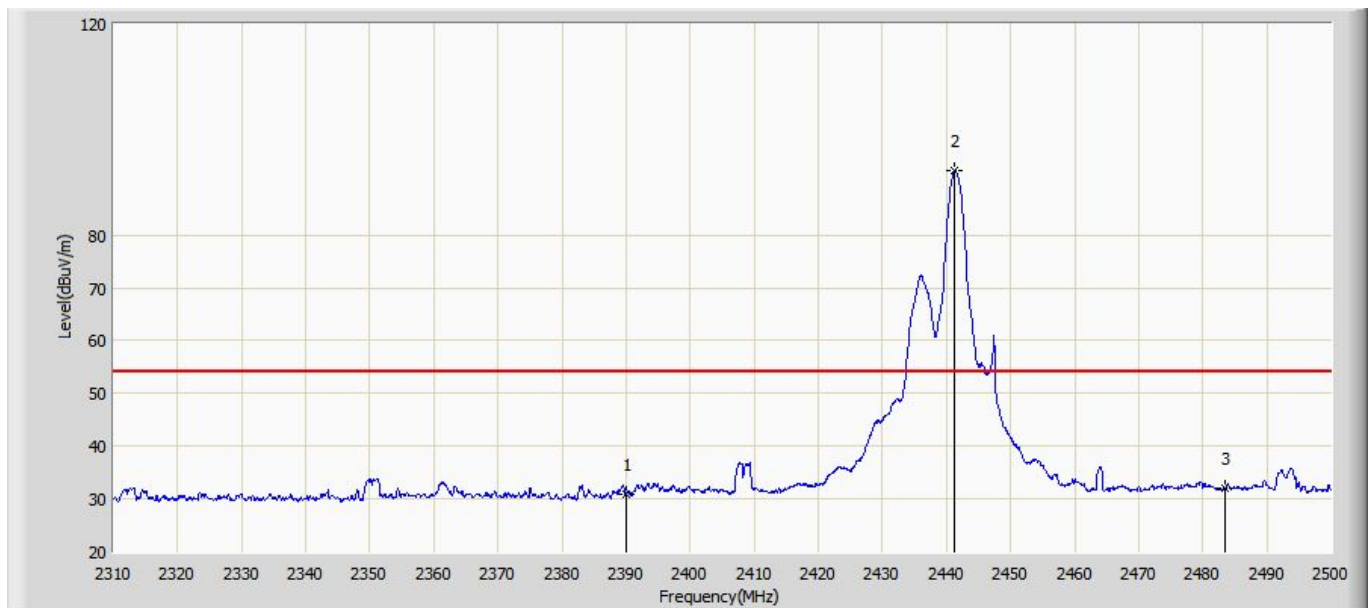
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	36.891	7.843	-17.109	54.000	29.048	AV
2	*	2405.400	93.183	64.259	NA	NA	28.924	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



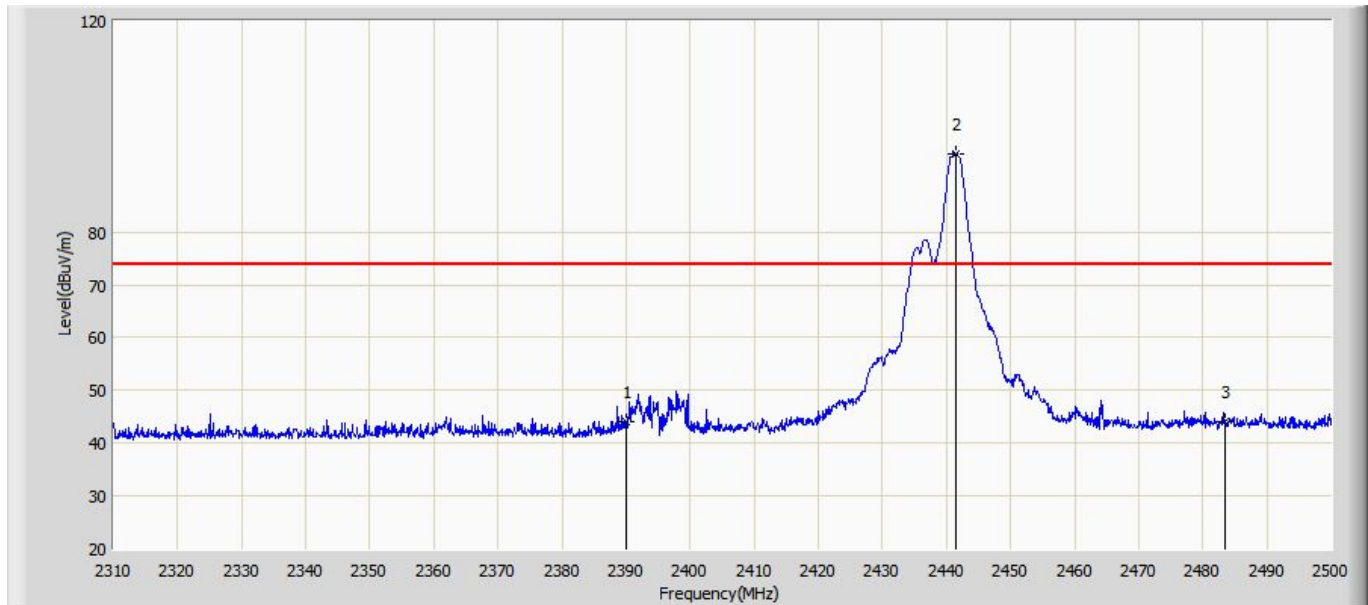
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	47.195	18.147	-26.805	74.000	29.048	PK
2	*	2405.500	95.657	66.734	NA	NA	28.923	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



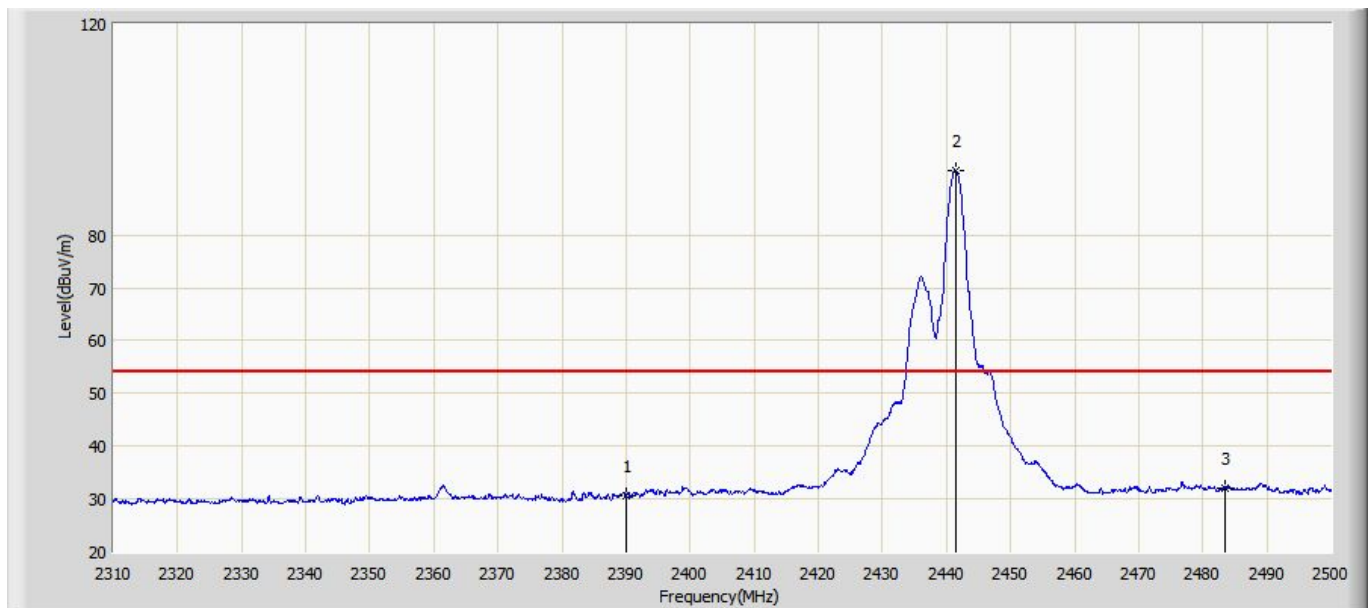
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	31.013	1.965	-22.987	54.000	29.048	AV
2	*	2441.290	92.228	63.297	NA	NA	28.931	AV
3		2483.500	31.979	1.495	-22.021	54.000	30.484	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



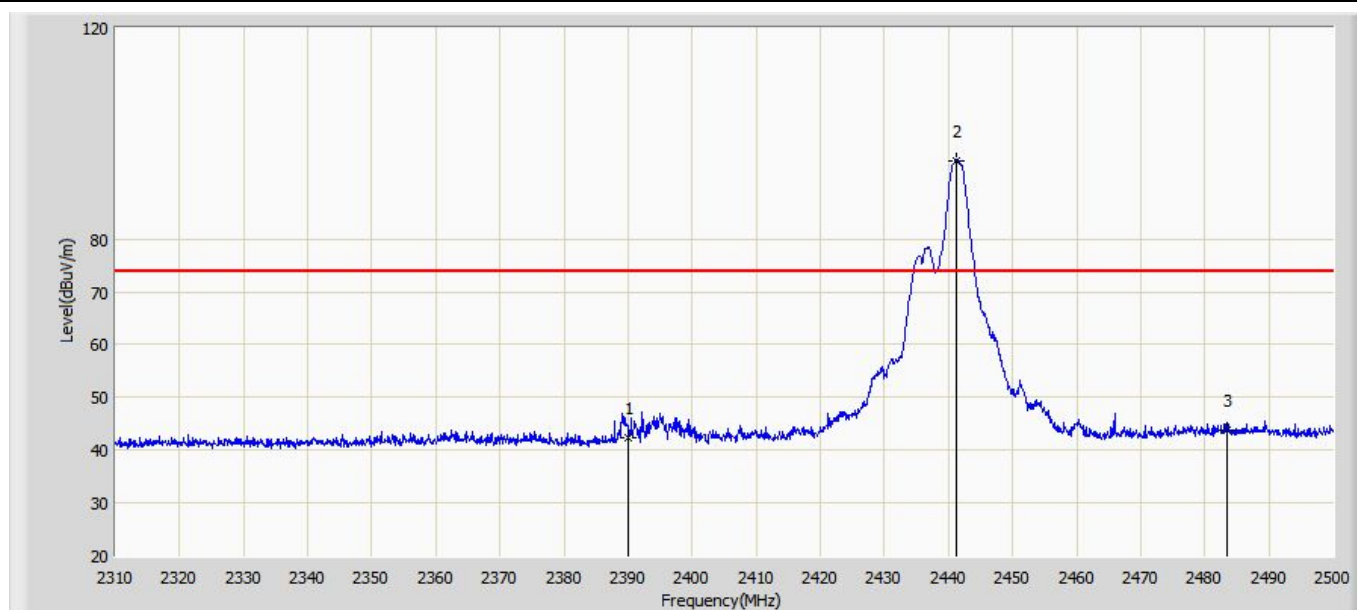
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	43.936	14.888	-30.064	74.000	29.048	PK
2	*	2441.575	94.888	65.958	NA	NA	28.930	PK
3		2483.500	43.971	13.487	-30.029	74.000	30.484	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



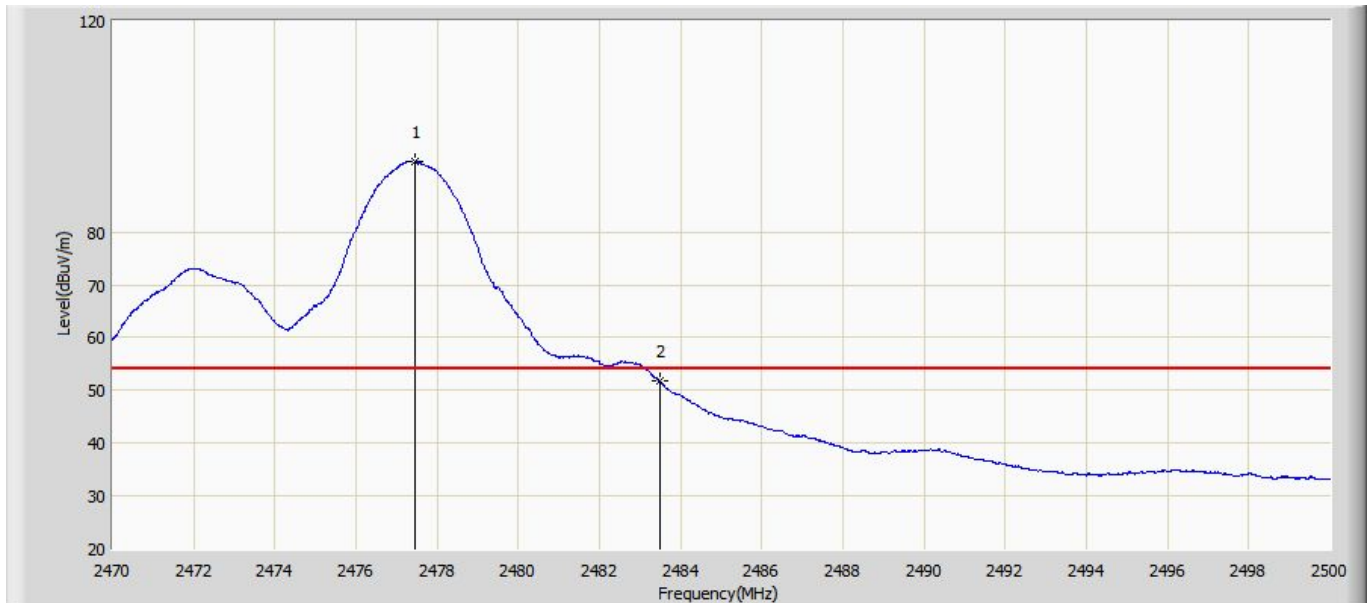
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	30.615	1.567	-23.385	54.000	29.048	AV
2	*	2441.385	92.305	63.374	NA	NA	28.931	AV
3		2483.500	32.003	1.519	-21.997	54.000	30.484	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



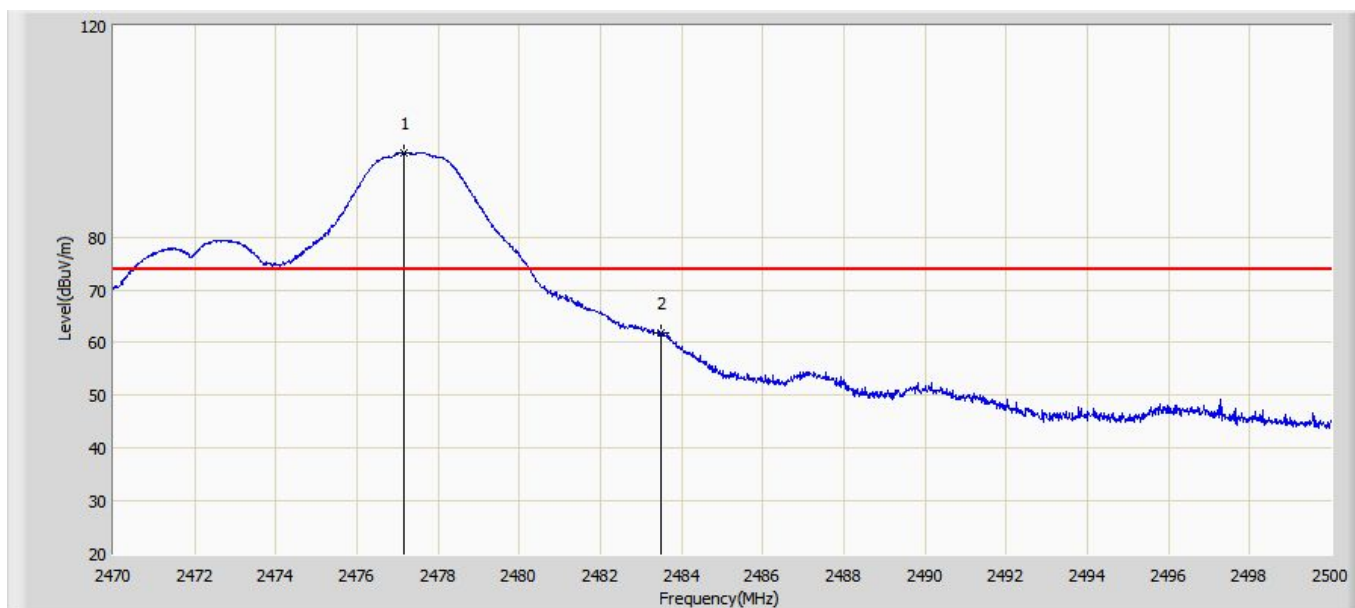
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	42.348	13.300	-31.652	74.000	29.048	PK
2	*	2441.290	94.884	65.953	NA	NA	28.931	PK
3		2483.500	43.776	13.292	-30.224	74.000	30.484	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



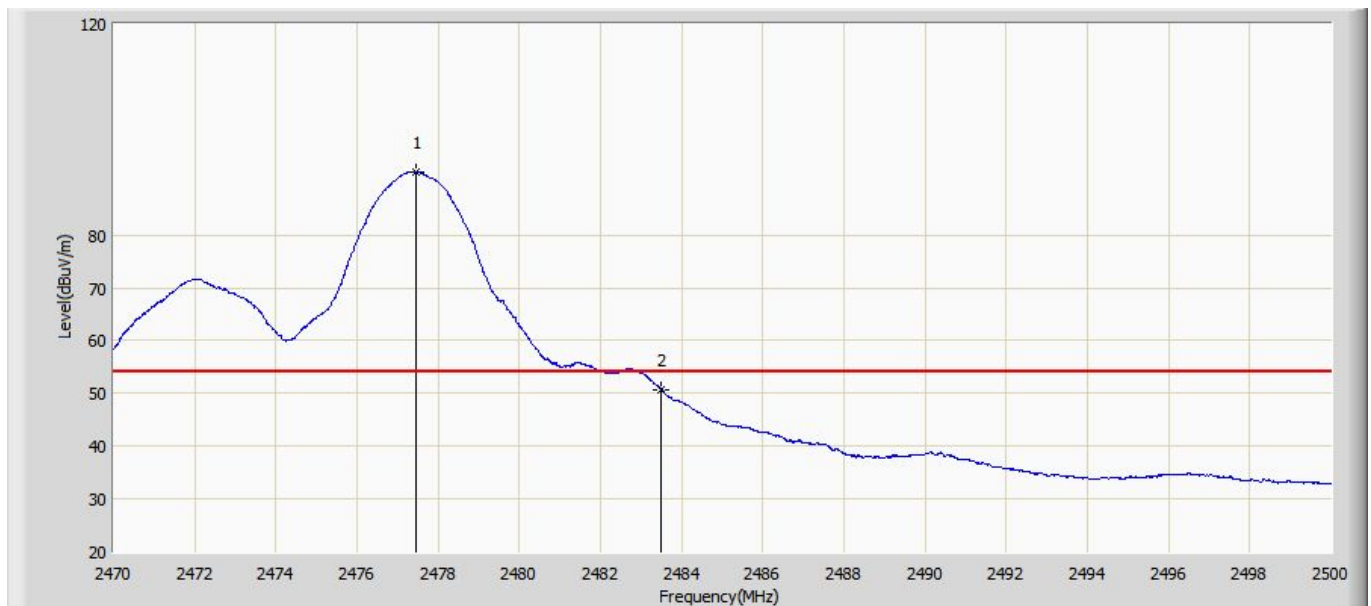
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2477.455	93.251	62.861	NA	NA	30.390	AV
2		2483.500	51.694	21.209	-2.306	54.000	30.484	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



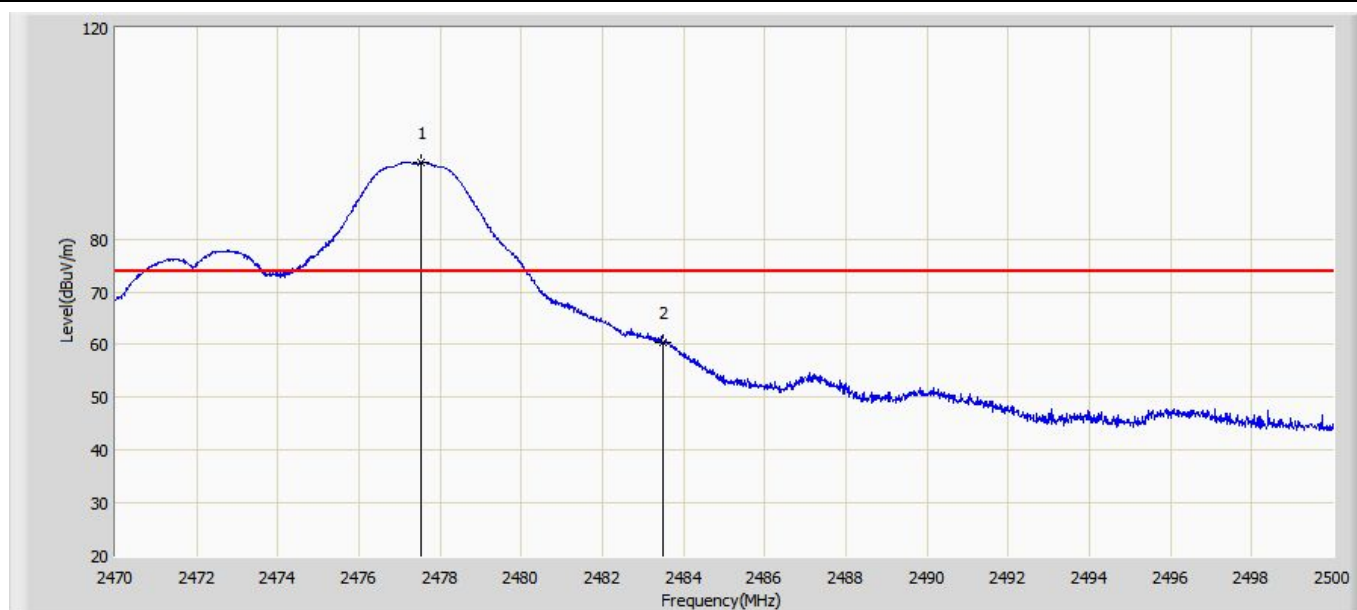
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2477.170	95.950	65.584	NA	NA	30.366	PK
2		2483.500	61.959	31.475	-12.041	74.000	30.484	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2477.455	91.995	61.605	NA	NA	30.390	AV
2		2483.500	50.712	20.228	-3.288	54.000	30.484	AV

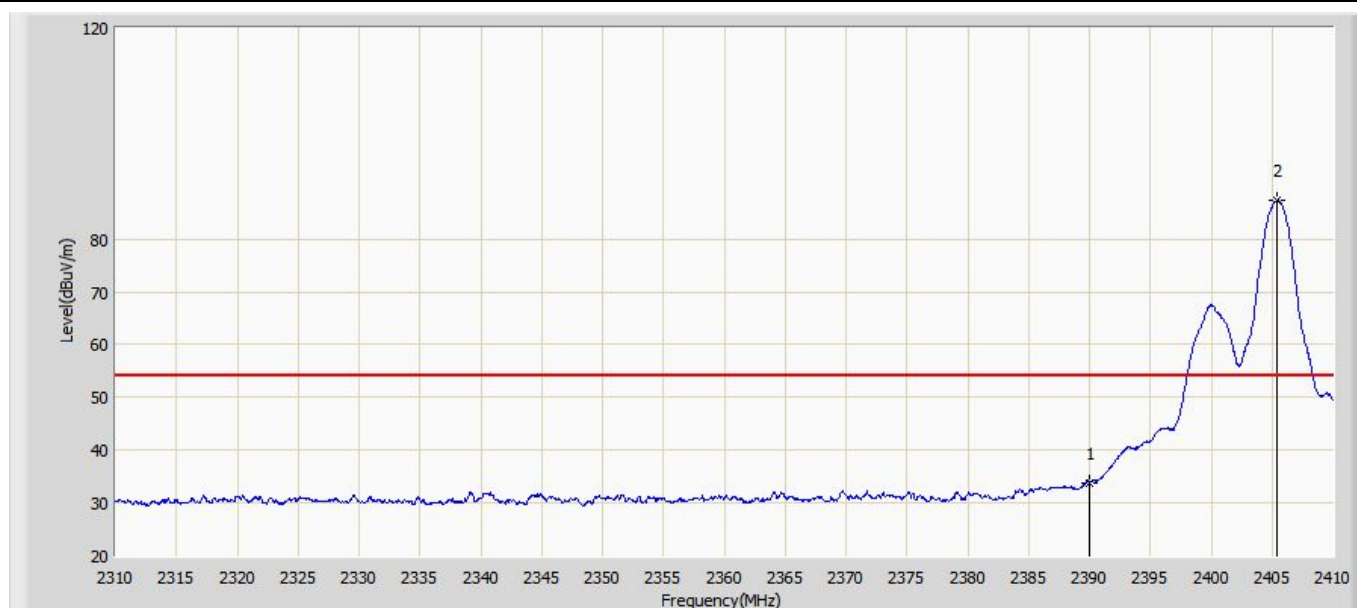
Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2477.545	94.425	64.027	NA	NA	30.398	PK
2		2483.500	60.429	29.945	-13.571	74.000	30.484	PK

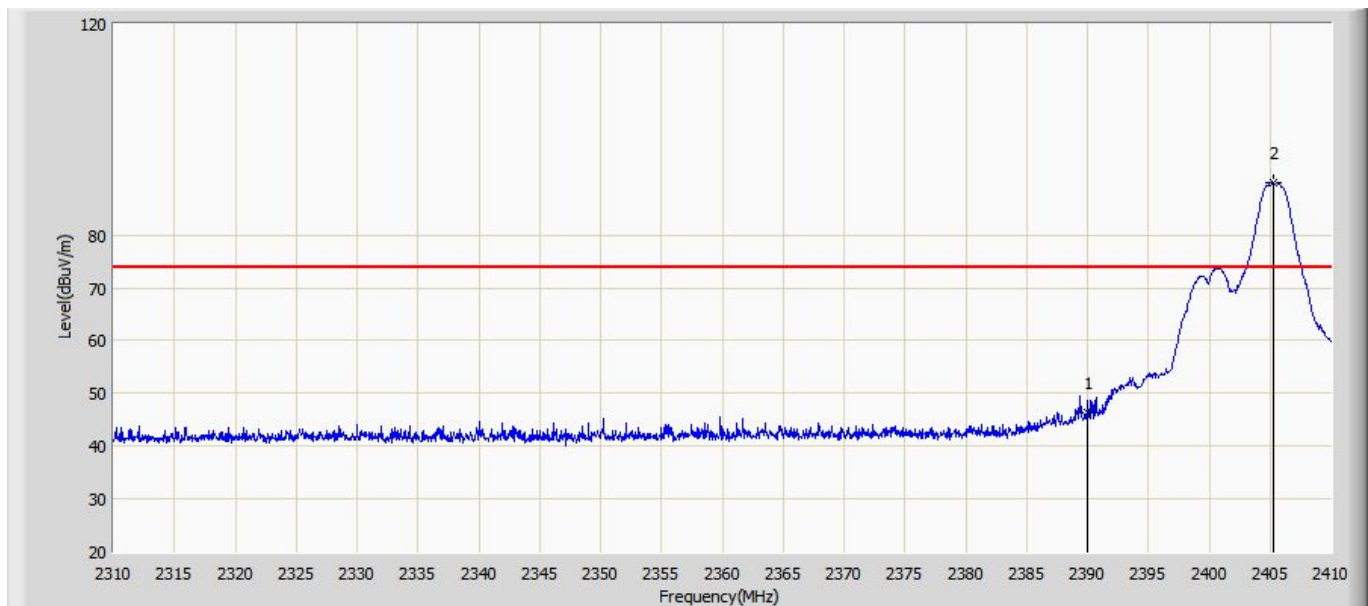
Ant 1:

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 16:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



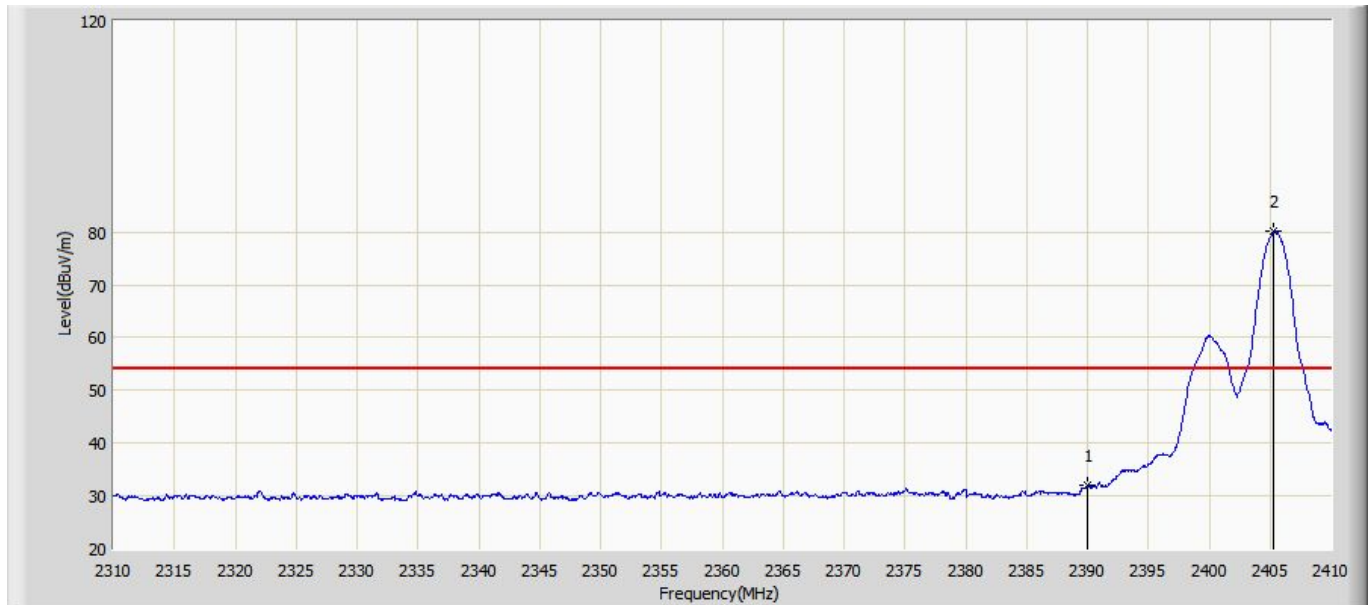
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	33.874	4.826	-20.126	54.000	29.048	AV
2	*	2405.350	87.290	58.366	NA	NA	28.924	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



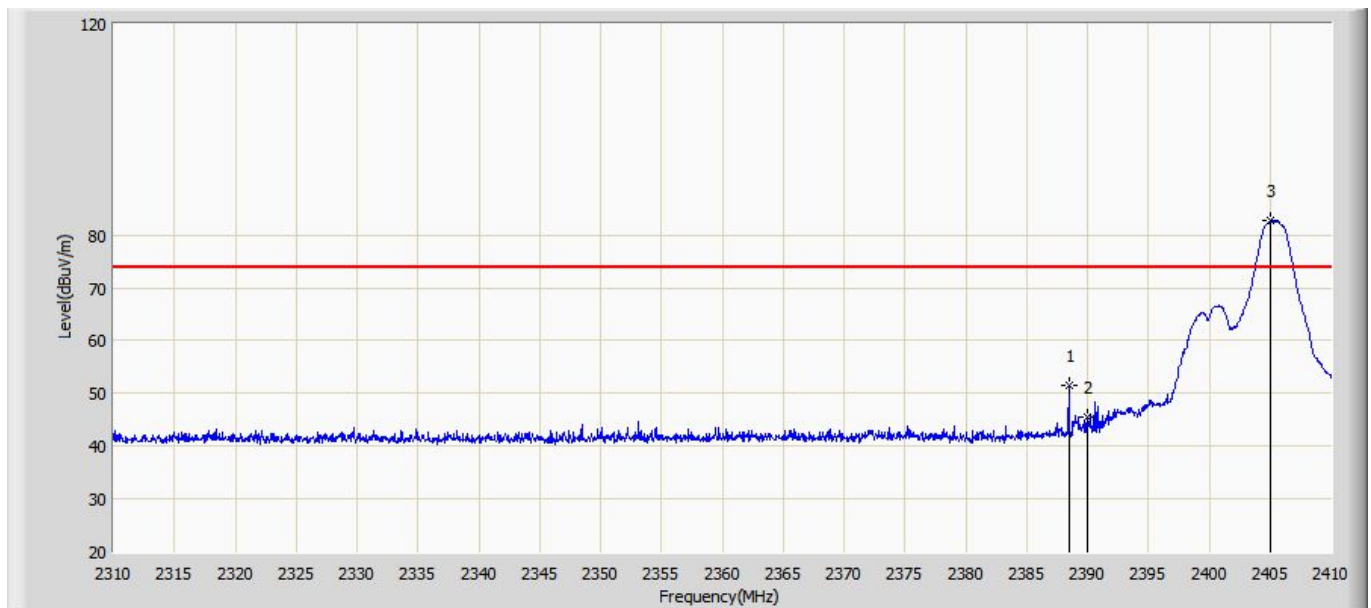
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.455	17.407	-27.545	74.000	29.048	PK
2	*	2405.250	89.914	60.989	NA	NA	28.925	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



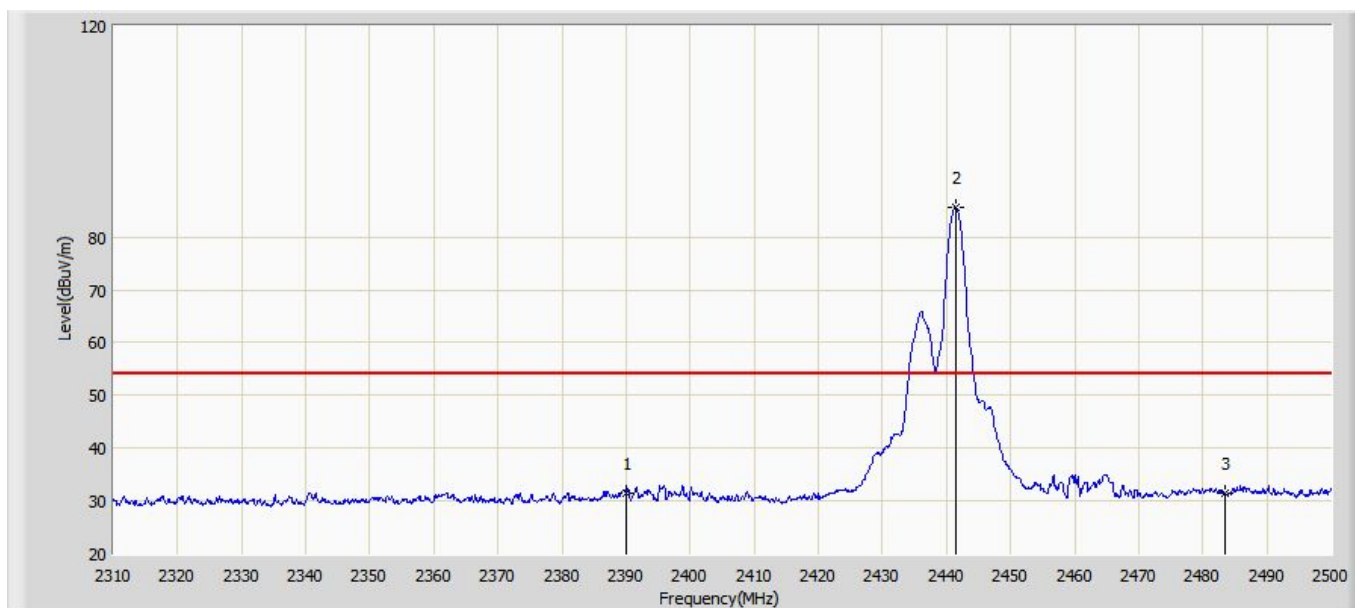
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	31.952	2.904	-22.048	54.000	29.048	AV
2	*	2405.300	80.108	51.183	NA	NA	28.925	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2405.35MHz by 1Mbps(Pi/4 DQPSK)	



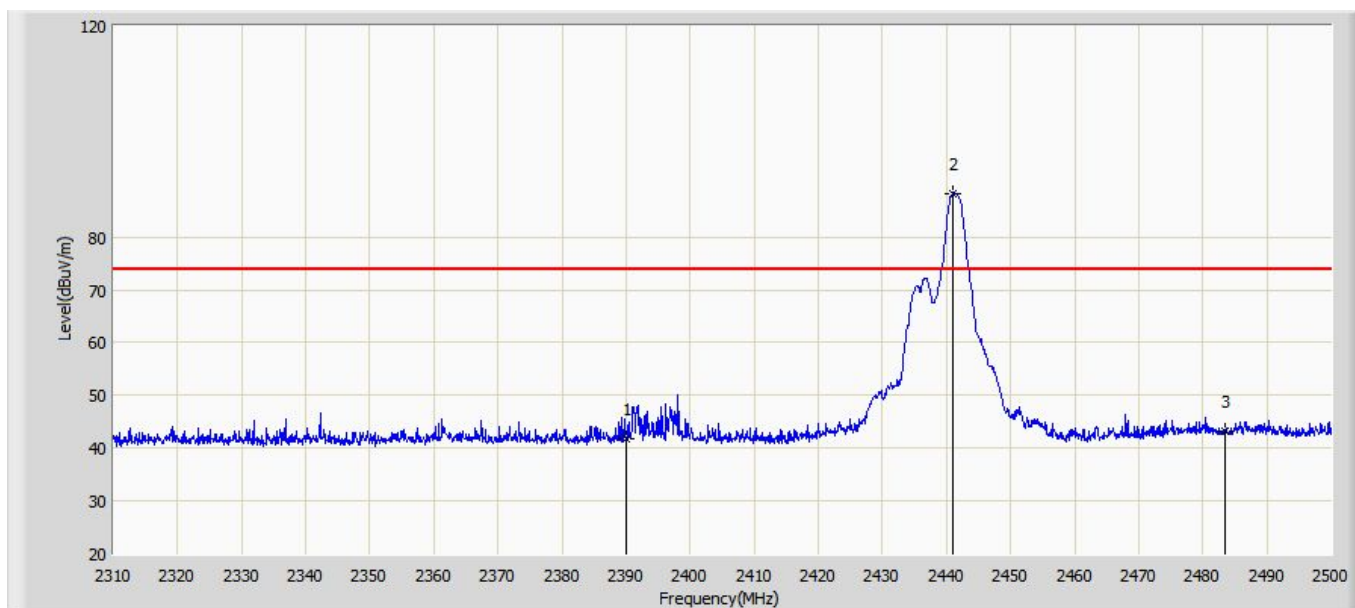
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2388.450	51.647	22.598	-22.353	74.000	29.049	PK
2		2390.000	45.634	16.586	-28.366	74.000	29.048	PK
3	*	2405.050	82.646	53.719	NA	NA	28.927	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



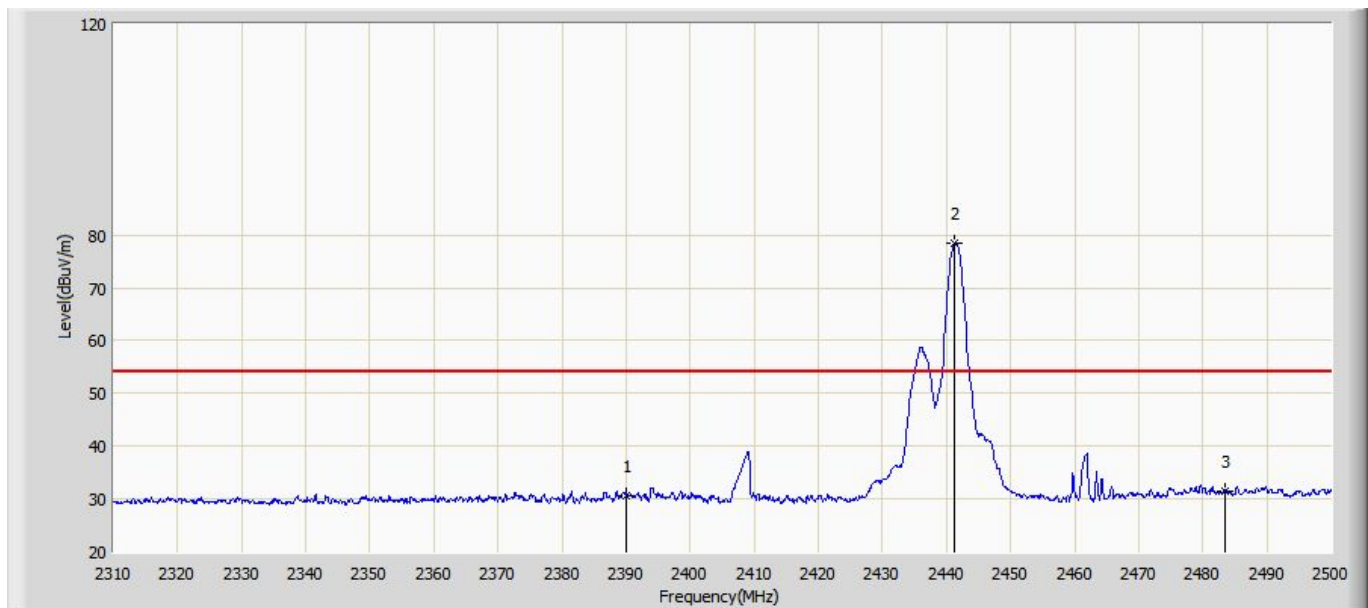
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	31.382	2.334	-22.618	54.000	29.048	AV
2	*	2441.385	85.719	56.788	NA	NA	28.931	AV
3		2483.500	31.432	0.948	-22.568	54.000	30.484	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



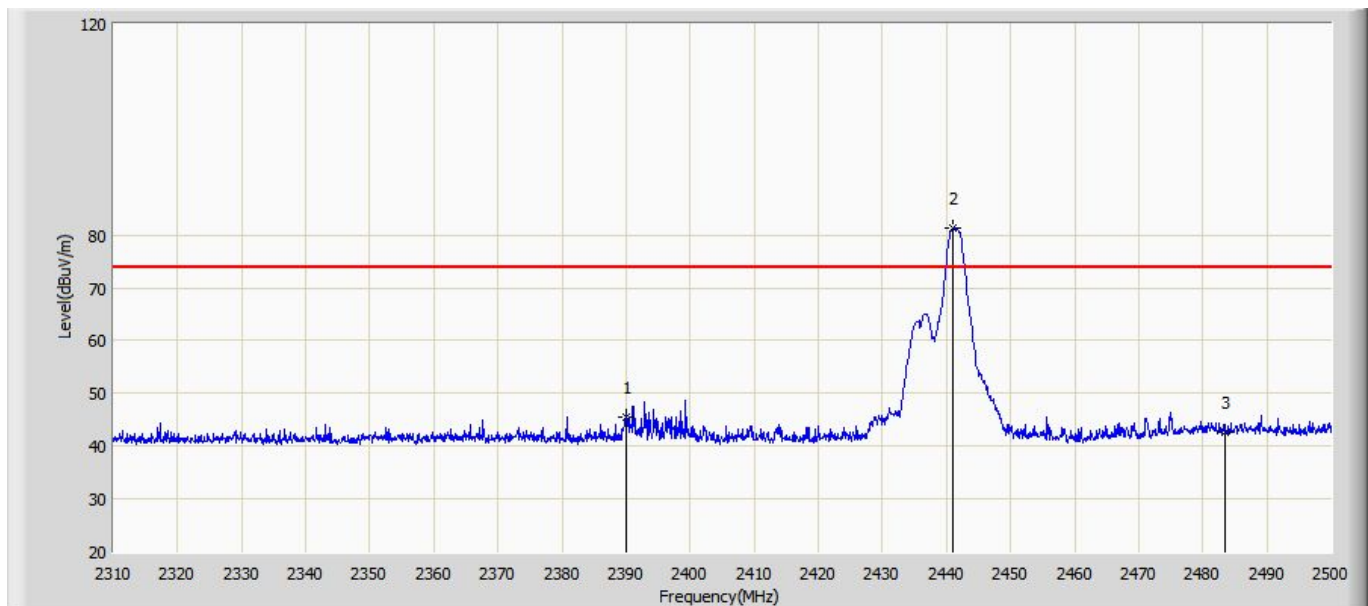
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	41.887	12.839	-32.113	74.000	29.048	PK
2	*	2441.005	88.232	59.300	NA	NA	28.932	PK
3		2483.500	43.117	12.633	-30.883	74.000	30.484	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



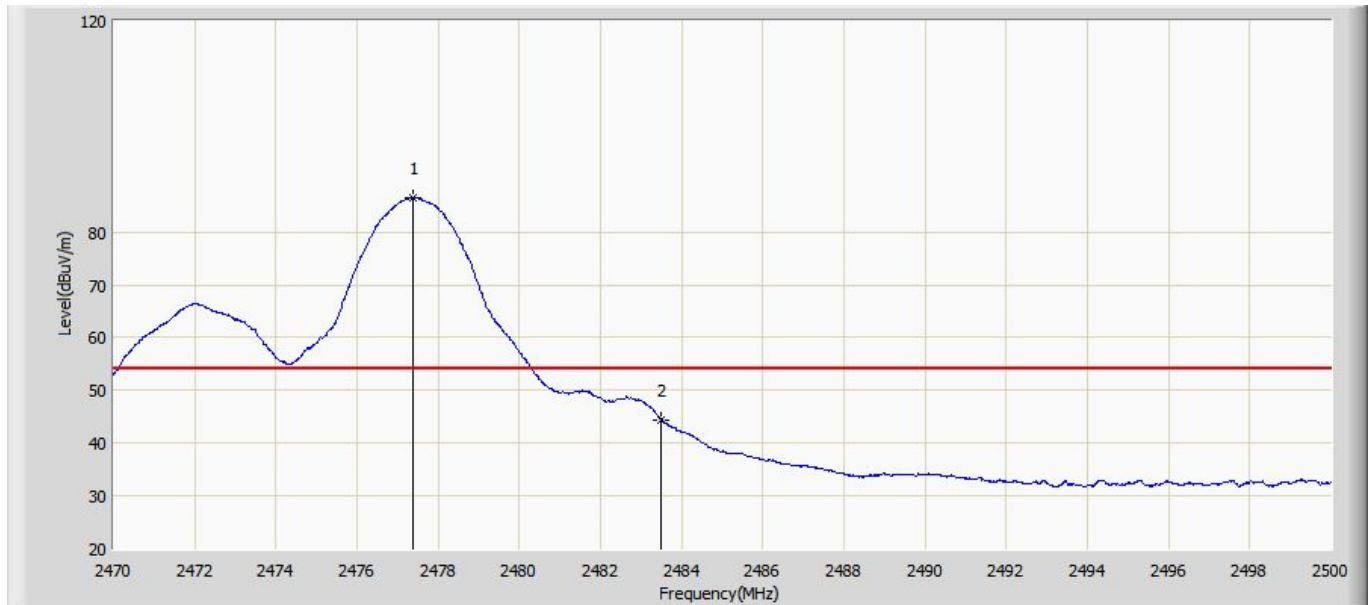
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	30.536	1.488	-23.464	54.000	29.048	AV
2	*	2441.290	78.591	49.660	NA	NA	28.931	AV
3		2483.500	31.408	0.924	-22.592	54.000	30.484	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441.35MHz by 1Mbps(Pi/4 DQPSK)	



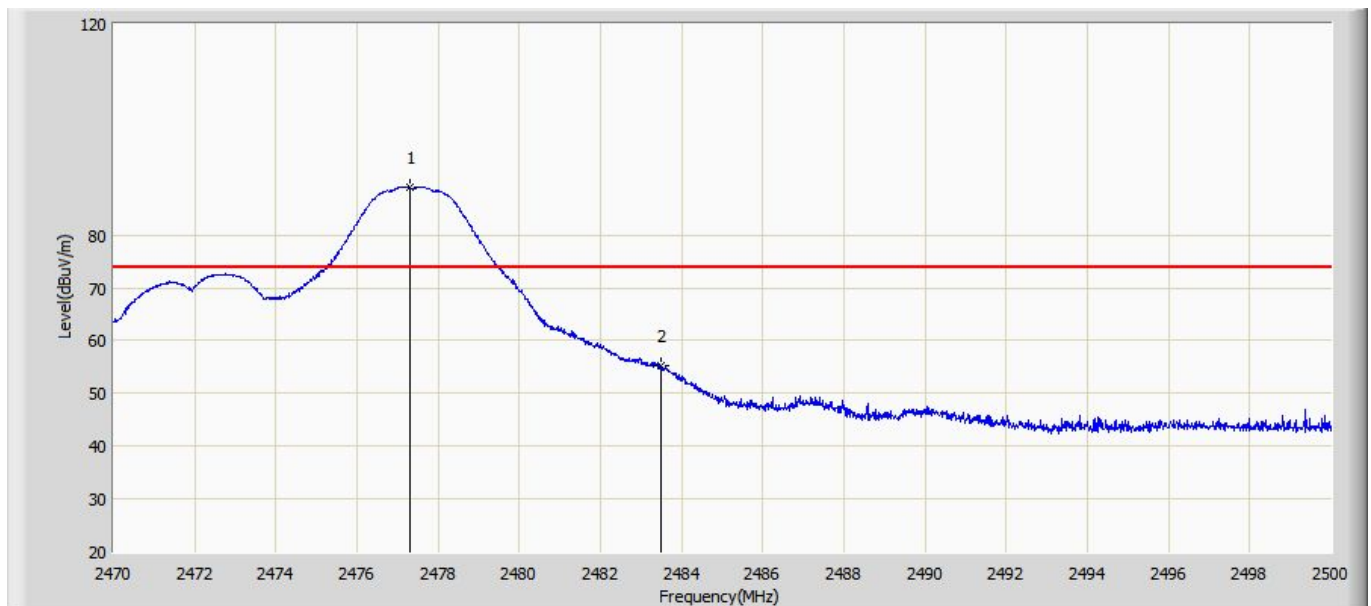
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.401	16.353	-28.599	74.000	29.048	PK
2	*	2441.100	81.411	52.480	NA	NA	28.931	PK
3		2483.500	42.751	12.267	-31.249	74.000	30.484	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



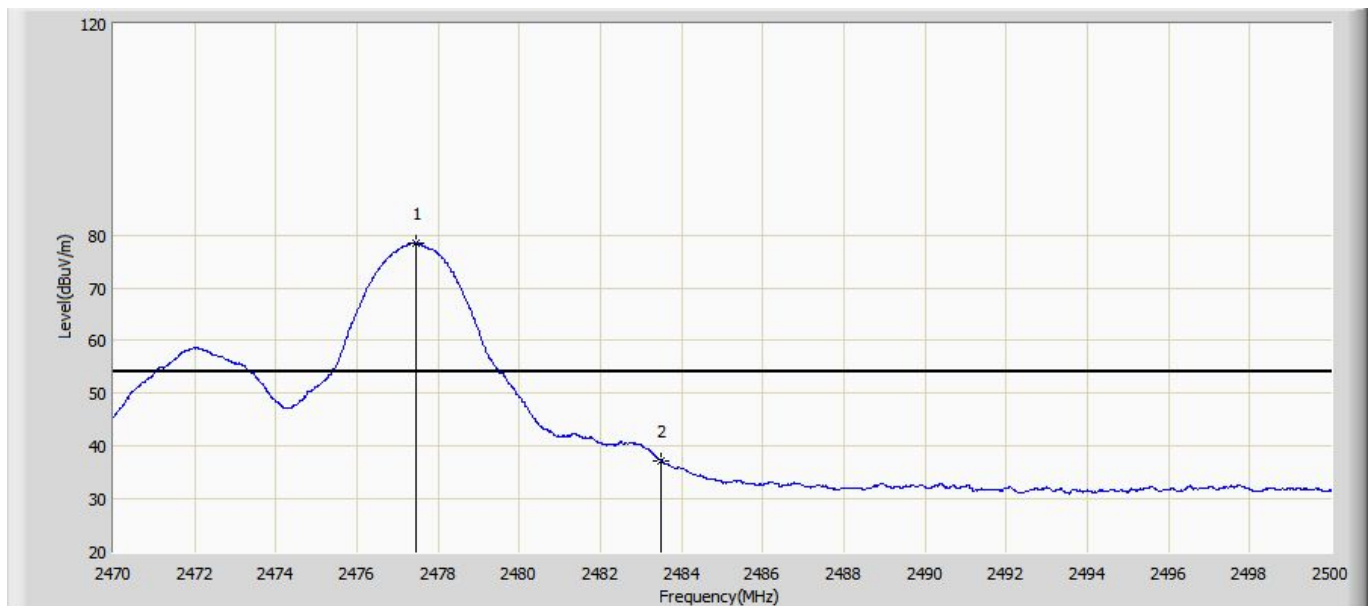
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2477.395	86.507	56.122	NA	NA	30.385	AV
2		2483.500	44.384	13.900	-9.616	54.000	30.484	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



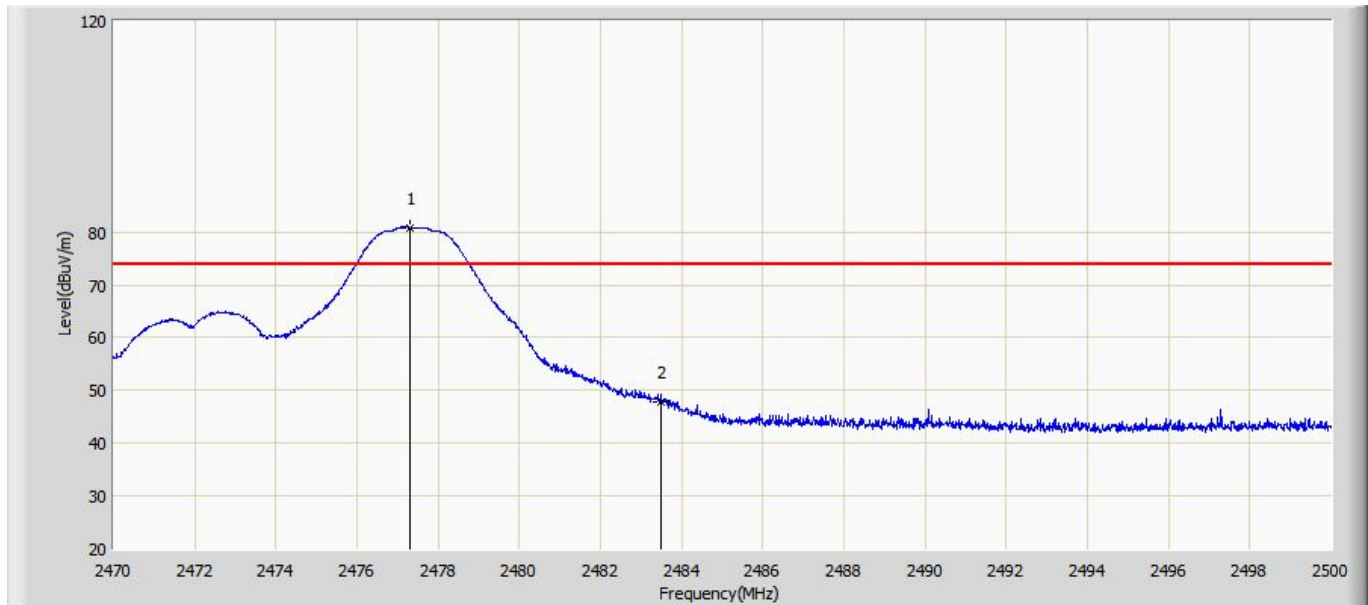
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2477.305	88.924	58.547	NA	NA	30.377	PK
2		2483.500	55.136	24.652	-18.864	74.000	30.484	PK

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2477.455	78.387	47.997	NA	NA	30.390	AV
2		2483.500	37.271	6.787	-16.729	54.000	30.484	AV

Engineer: Slark	
Site: AC5	Time: 2017/09/04 - 17:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Stereo Headset	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2477.35MHz by 1Mbps(Pi/4 DQPSK)	



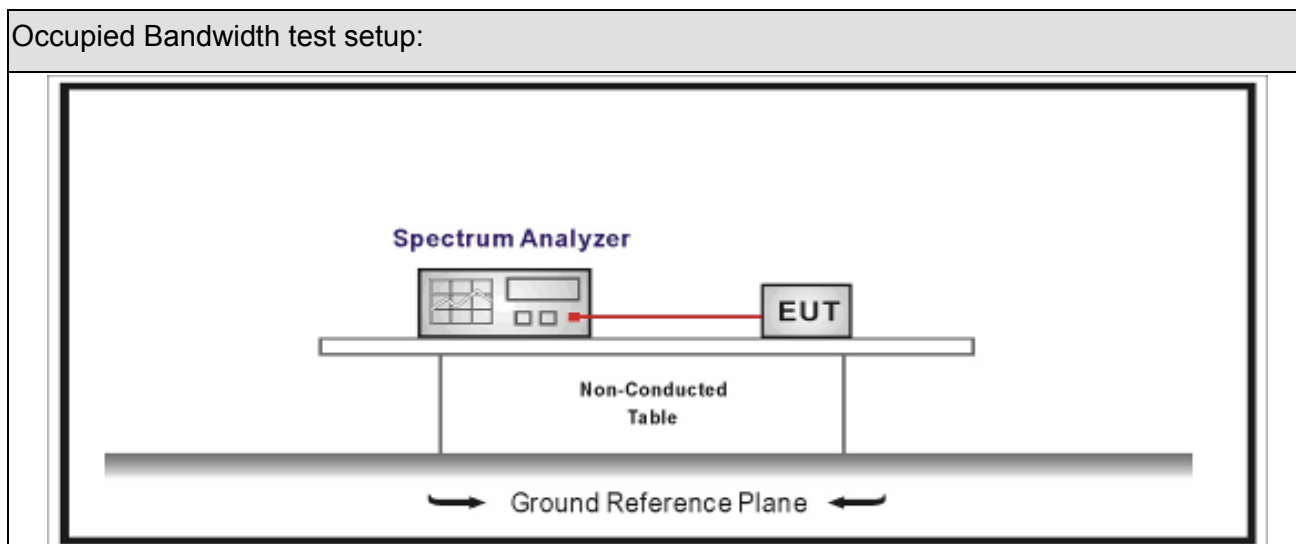
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2477.305	80.776	50.399	NA	NA	30.377	PK
2		2483.500	47.930	17.446	-26.070	74.000	30.484	PK

7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

7.2. Test Setup



7.3. Limit

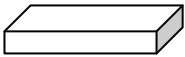
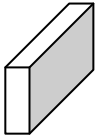
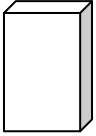
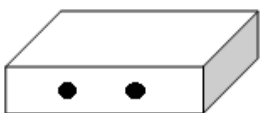
Occupied Bandwidth

Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

7.4. Test Procedure

Test Method				
	Reference Rule		Chapter	Description
☒	ANSI C63.10		11.8	DTS bandwidth
	☐	ANSI C63.10	11.8.1	Option 1
	☒	ANSI C63.10	11.8.2	Option 2

7.5. EUT test definition

Item	Occupied Bandwidth			
Device Category	☐	Fixed point-to-point		
	☐	Emit multiple directional beams, simultaneously or sequentially		
	☒	Other cases		
Test mode	Mode 1			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 0		
				
	☐	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

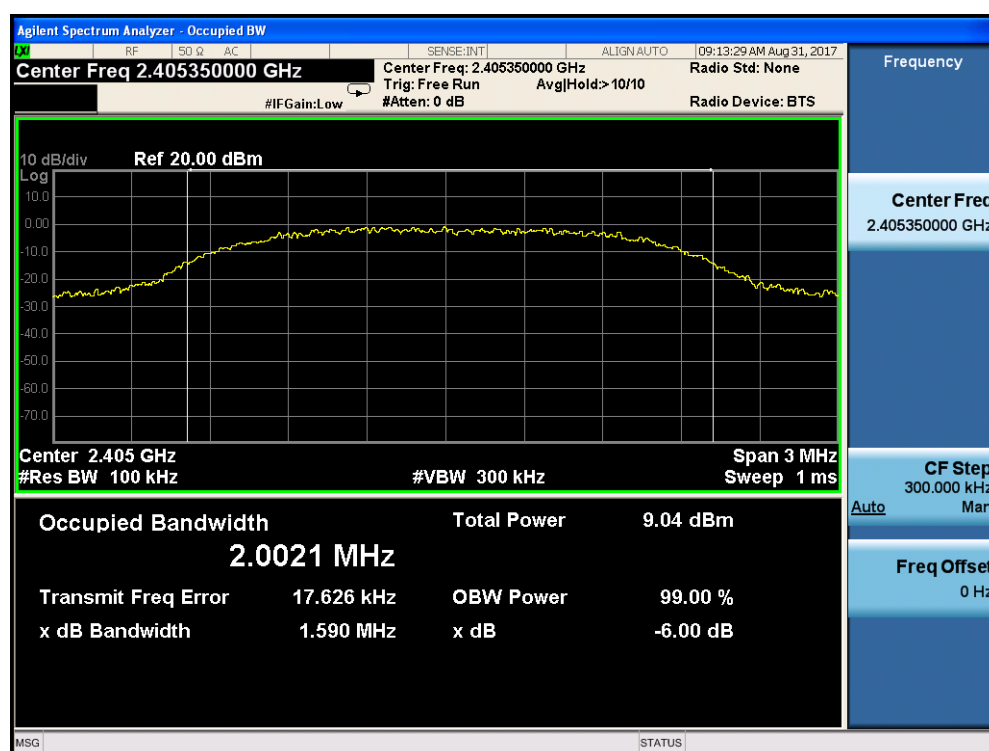
7.6. Test Result

Product Name	:	Wireless Stereo Headset	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1	Test Site	:	TR-8
Test Date	:	2017.08.31			

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result
1	02	2405.35	1590	>500	Pass
1	20	2441.35	1591	>500	Pass
1	38	2477.35	1606	>500	Pass

Note : The worst case of Occupied Bandwidth as below:

Mode 1 CH02 (2405.35MHz)



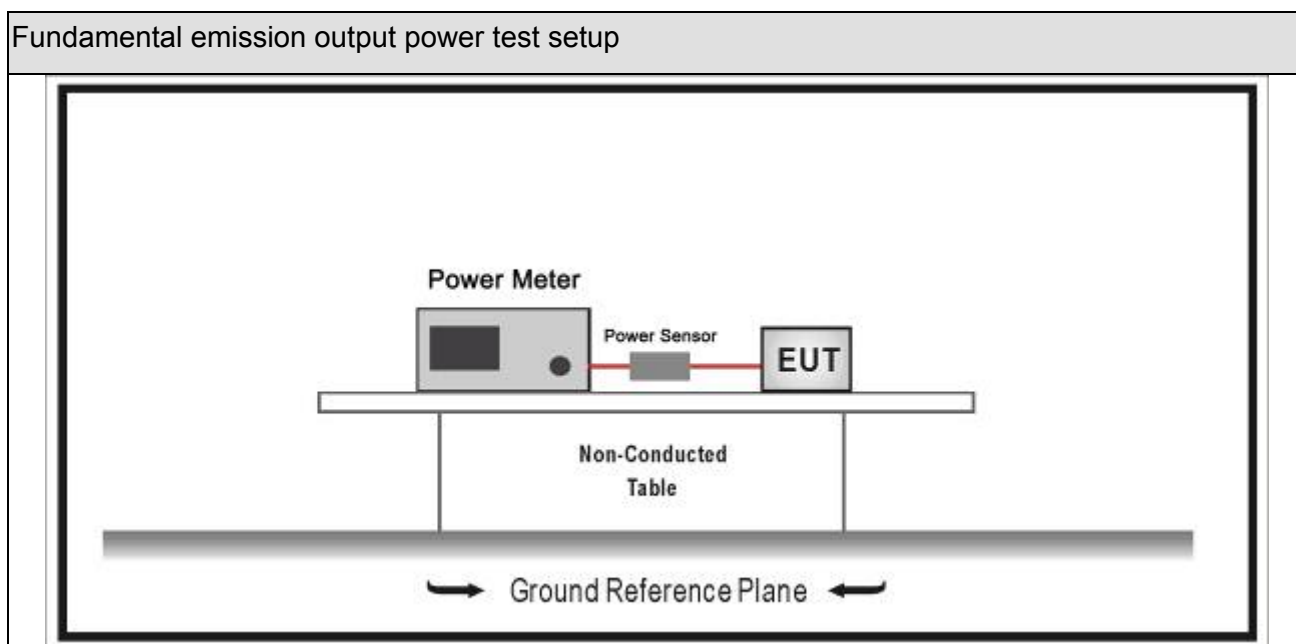
8. Fundamental emission output power

8.1. Test Equipment

Fundamental emission output power/ TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.01.04	2018.01.03
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2016.10.14	2017.10.13
Power Sensor	Anritsu	MA2411B	0846014	2016.10.14	2017.10.13
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2017.04.10	2018.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



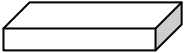
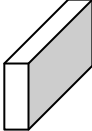
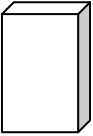
8.3. Limit

Fundamental emission output power Limit			
☒	$G_{TX} < 6\text{dBi}$		$P_{out} \leq 30\text{dBm}$
☐	$G_{TX} > 6\text{dBi}$		
	☐	Non-Fix point-point	$P_{out} \leq 30 - (G_{TX} - 6)$
	☐	Fix point-point	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
	☐	Point-to-multipoint	$P_{out} \leq 30 - (G_{TX} - 6)$
	☐	Overlap Beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
	☐	Aggregate power transmitted simultaneously on all beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
	☐	single directional beam	$P_{out} \leq 30 - [(G_{TX} - 6)]/3 + 8\text{dB}$
Note 1 : G_{TX} directional gain of transmitting antennas.			
Note 2 : P_{out} is maximum peak conducted output power .			

8.4. Test Procedure

Fundamental emission output power Test Method						
	References Rule			Chapter	Description	
☒	ANSI C63.10			11.9	Fundamental emission output power	
	☒	ANSI C63.10		11.9.1	Maximum peak conducted output power	
		☐	ANSI C63.10	11.9.1.1	RBW ≥ DTS bandwidth	
		☐	ANSI C63.10	11.9.1.2	Integrated band power method	
		☒	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method	
	☐	ANSI C63.10		11.9.2	Maximum conducted (average) output power	
		☐	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)
			☐	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle ≥ 98%)
			☐	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle ≥ 98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle ≤ 98%)
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle ≤ 98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-3
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
		☐	ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
			☐	ANSI C63.10	11.9.2.3.1	Method AVGPM
			☐	ANSI C63.10	11.9.2.3.2	Method AVGPM-G

8.5. EUT test definition

Item	Fundamental emission output power			
Device Category	☐	Fixed point-to-point		
	☐	Emit multiple directional beams, simultaneously or sequentially		
	☒	Other cases		
Test mode	Mode 1			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 0		
				
	☐	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

8.6. Test Result

Product Name	:	Wireless Stereo Headset	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1	Test Site	:	TR-8
Test Date	:	2017.09.01			

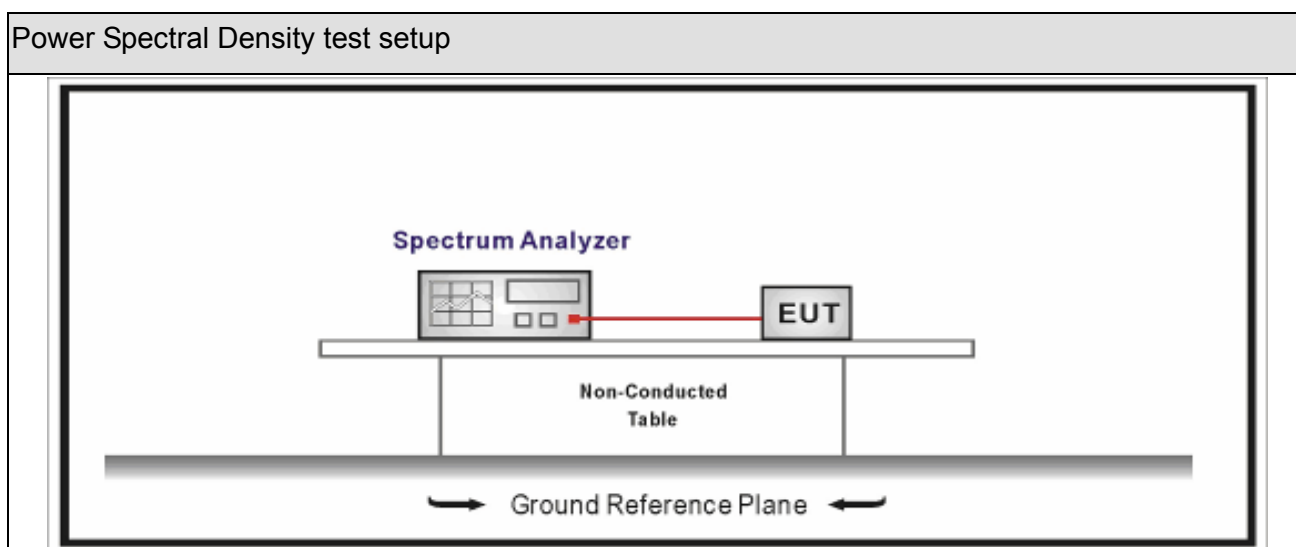
Mode	Channel	Test Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	02	2405.35	3.84	30	Pass
1	20	2441.35	4.47	30	Pass
1	38	2477.35	5.12	30	Pass

9. Power Spectral Density

9.1. Test Equipment

Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

9.2. Test Setup



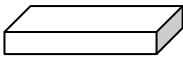
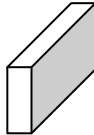
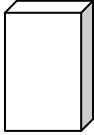
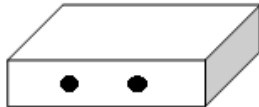
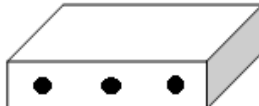
9.3. Limit

Power Spectral Density Limit
Power Spectral Density $\leq 8\text{dBm}/3\text{kHz}$

9.4. Test Procedure

Power Spectral Density Test Method				
	References Rule		Chapter	Description
☒	ANSI C63.10		11.10	Maximum power spectral density level in the fundamental emission
	☒	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
	☐	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle $\geq 98\%$)
	☐	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle $\geq 98\%$)
	☐	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle $< 98\%$)
	☐	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle $< 98\%$)
	☐	ANSI C63.10	11.10.7	Method AVGPSD-3
	☐	ANSI C63.10	11.10.8	Method AVGPSD-3A

9.5. EUT test definition

Item	Power Spectral Density Test Method			
Device Category	☐	Fixed point-to-point		
	☐	Emit multiple directional beams, simultaneously or sequentially		
	☒	Other cases		
Test mode	Mode 1			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 0		
				
	☐	Chain 0	Chain 1	
				
	☐	Chain 0	Chain 1	Chain 2
				

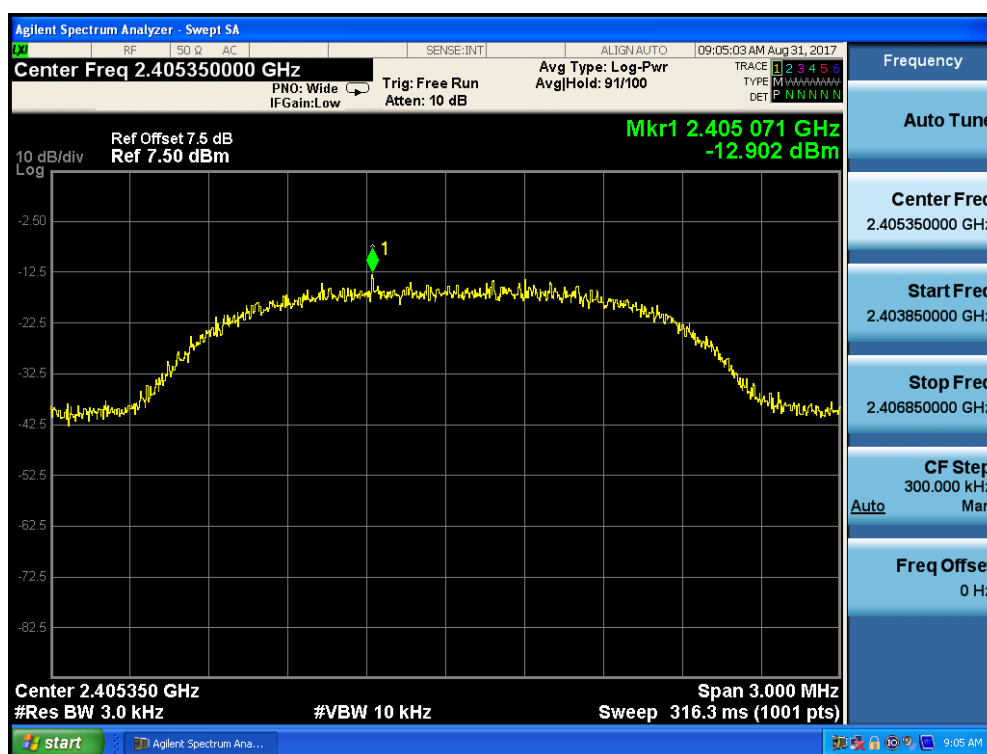
9.6. Test Result

Product Name	: Wireless Stereo Headset	Power	: AC 120V/60Hz
Test Mode	: Mode 1	Test Site	: TR-8
Test Date	: 2017.08.31		

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	02	2405.35	-12.902	-12.902	8	Pass
1	20	2441.35	-13.197	-13.197	8	Pass
1	38	2477.35	-13.677	-13.677	8	Pass

Note : The worst case of Power Spectral Density as below:

Mode 1 CH02(2405.35MHz)



10. Antenna Requirement

10.1. Limit

Antenna Requirement Limit	
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	

10.2. Antenna Connector Construction

Antenna Connector Construction	
☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

_____ The End _____