



Test Report

FCC Part15 Subpart C

Product Name : GEYE 900
Model No. : 8390837, 117826, 2245339
FCC ID : 2AH2PG90017BR

Applicant : DECATHLONUSA LLC
Address : 2415 3rd Street, Suite 231
San Francisco
94107, California
United States of America

Date of Receipt : July. 13, 2017
Test Date : July. 14, 2017~ Dec. 13, 2017
Issued Date : Jul. 24, 2018
Report No. : 1772085R-RF-US-P06V02
Report Version : V1.1

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

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Product Name : GEYE 900
 Applicant : DECATHLON USA LLC
 Address : 2415 3rd Street, Suite 231
 San Francisco
 94107, California
 United States of America

Manufacturer : DECATHLON SA
 Address : 4 Boulevard de Mons- 59650 Villeneuve D'Ascq-FRANCE
 Model No. : 8390837, 117826, 2245339
 FCC ID : 2AH2PG90017BR
 EUT Voltage : 3.8 V dc
 Test Voltage : AC 120V/60Hz
 Brand Name : Decathlon
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C
 ANSI C63.4:2014; ANSI C63.10:2013;
 KDB 558074 D01v04

Test Result : Complied
 Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
 No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,
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 FCC Designation Number: CN1155; IC Lab Code: 4075B

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1772085R-RF-US-P06V02	V1.0	Initial Issued Report	May. 16, 2018
1772085R-RF-US-P06V02	V1.1	Change some descriptions	Jul. 24, 2018

1. General Information

1.1. EUT Description

Product Name	GEYE 900
Brand Name	Decathlon
Model No.	8390837, 117826, 2245339
EUT Voltage	3.8 V dc
Test Voltage	AC 120V/60Hz
Frequency Range	For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz
Channel Number	For 2.4GHz Band 802.11b/g/n(20MHz):
Type of Modulation	802.11b: DSSS 802.11g: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11b: 1/2/5.5/11 Mbps 802.11n: up to 72.5 Mbps
Channel Control	Auto

1.2. Channel List:

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A

1.3. Test Channel:

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	06	2437MHz	11	2462 MHz	N/A	N/A

1.4. Antenna information

Antenna manufacturer	N/A		
Antenna Delivery	<input checked="" type="checkbox"/> 1*TX+1*RX	<input type="checkbox"/> 2*TX+2*RX	<input type="checkbox"/> 3*TX+3*RX
Antenna technology	<input checked="" type="checkbox"/> SISO		
	<input type="checkbox"/> MIMO	<input type="checkbox"/> Basic	
		<input type="checkbox"/> Sectorized antenna systems	
		<input type="checkbox"/> Cross-polarized antennas	
		<input type="checkbox"/> Unequal antenna gains, with equal transmit powers	
		<input type="checkbox"/> Spatial Multiplexing	
		<input type="checkbox"/> CDD	
	<input type="checkbox"/> Beam-forming		
Antenna Type	<input type="checkbox"/> External	<input type="checkbox"/> Dipole	
	<input checked="" type="checkbox"/> Internal	<input checked="" type="checkbox"/> PIFA	
		<input type="checkbox"/> PCB	
		<input type="checkbox"/> Monopole Antenna	
		<input type="checkbox"/> Metal plate type F antenna	
		<input type="checkbox"/> Cross-polarize Antenna	
Antenna Gain #0	2.5dBi		

1.5. Mode of Operation

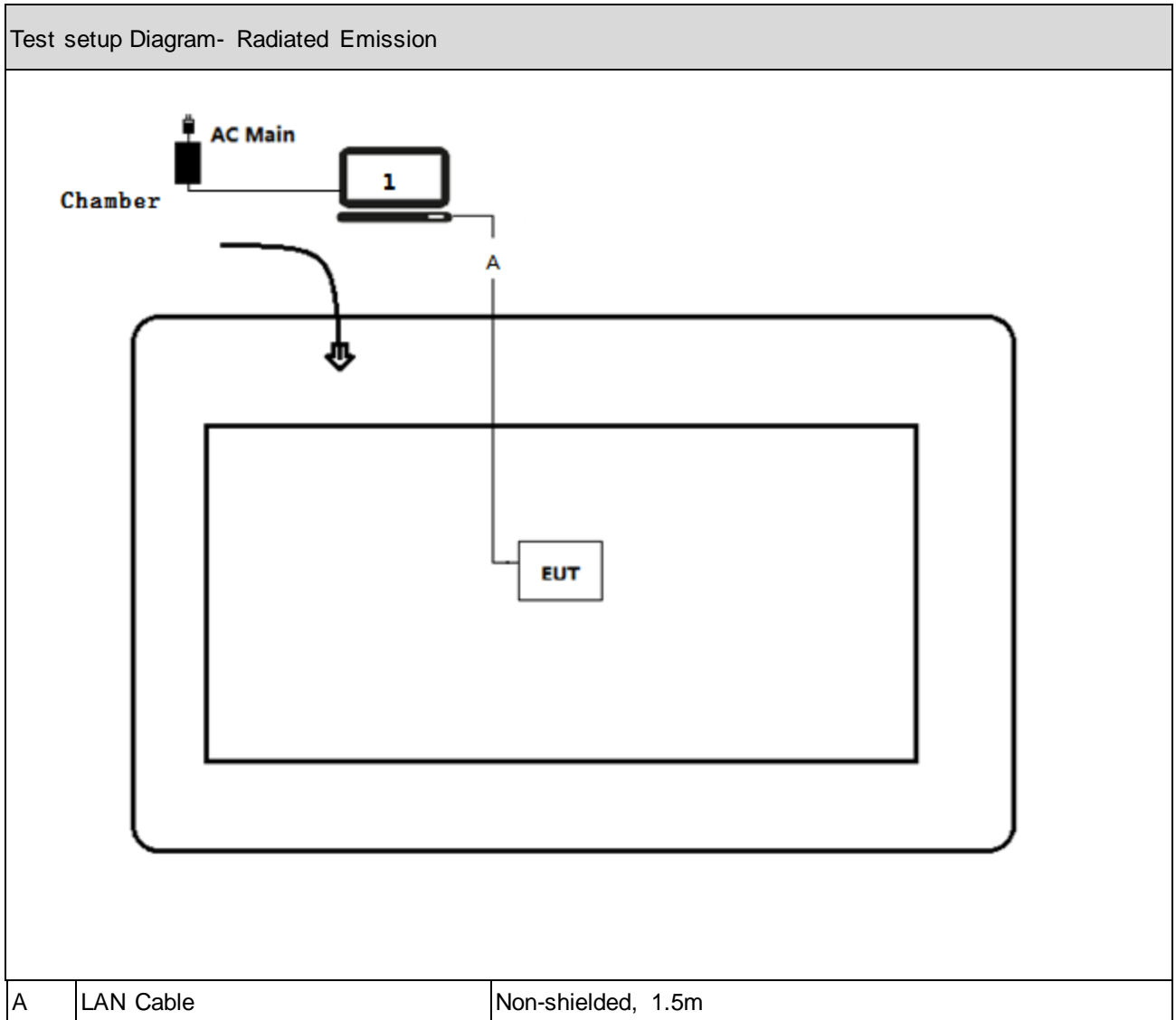
Test Modes List
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)

1.6. Tested System Details

The types for all equipments, 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	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	LAN cable	N/A	N/A	N/A	Non-shielded, 1.5m

1.7. Configuration of Tested System



1.8. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	Run the CDM, and Input command to control EUT transmit and receive signal.

2. Technical Test

2.1. Summary of Test Result

For FCC Rule:

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	$\geq 30\text{dBc}$	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

2.2. Power setting parameter

Test Software	N/A	
Modulation Mode	Test Frequency	Ant 1
802.11b	2412	16
	2437	16
	2462	17
802.11g	2412	15
	2437	14
	2462	13
802.11n(20MHz)	2412	14
	2437	13
	2462	11

2.3. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)				
		802.11b	802.11g		20MHz Bandwidth	
					800ns GI	400ns GI
0	1	1	6	---	6.5	7.2
1	1	2	9	---	13.0	14.4
2	1	5.5	12	---	19.5	21.7
3	1	11	18	---	26.0	28.9
4	1	---	24	---	39.0	43.3
5	1	---	36	---	52.0	57.8
6	1	---	48	---	58.5	65.0
7	1	---	54	---	65.0	72.2
8	2	---	---	---	13.0	14.4
9	2	---	---	---	26.0	28.9
10	2	---	---	---	39.0	43.3
11	2	---	---	---	52.0	57.8
12	2	---	---	---	78.0	86.7
13	2	---	---	---	104.0	115.6
14	2	---	---	---	117.0	130.0
15	2	---	---	---	130.0	144.0

Note 1 : The blue form is the maximum power data rate

Note 2 : The EUT has two spatial Streams

2.4. 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

2.5. 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	$\pm 1.27\text{dB}$

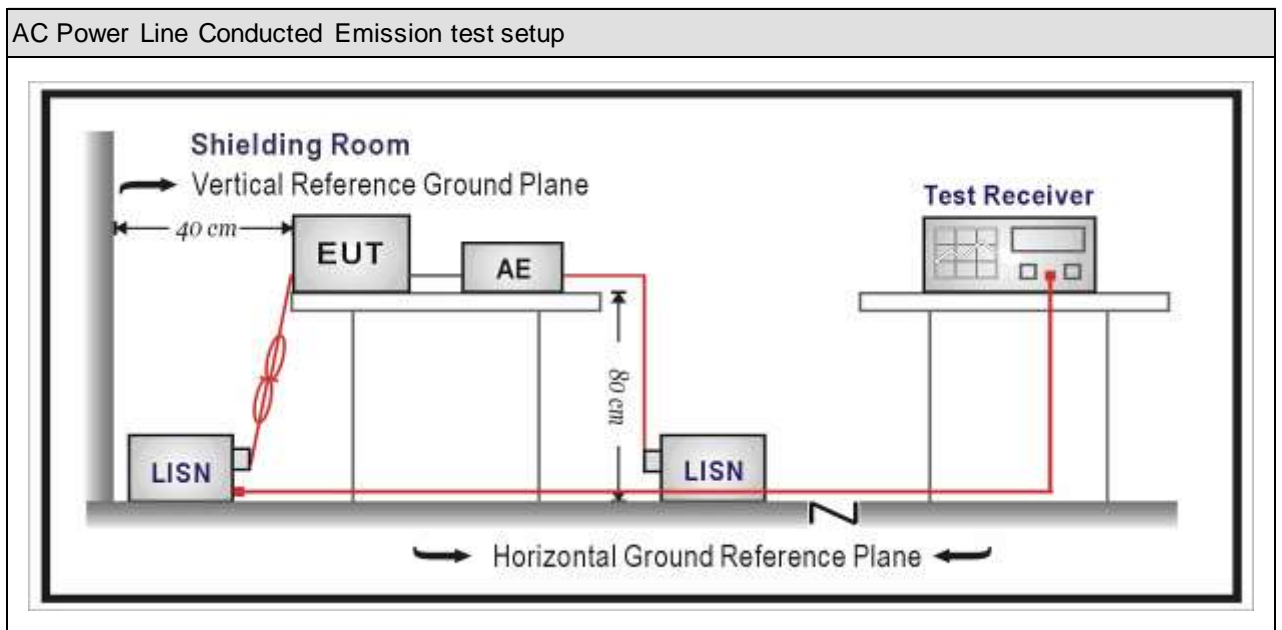
3. AC Power Line Conducted Emission

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	2017.07.16	2018.07.15
Two-Line V-Network	R&S	ENV 216	101044	2017.09.16	2018.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2017.09.16	2018.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2017.01.04	2018.01.03

Note: All equipments 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 (dBµV)	Average (dBµV)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

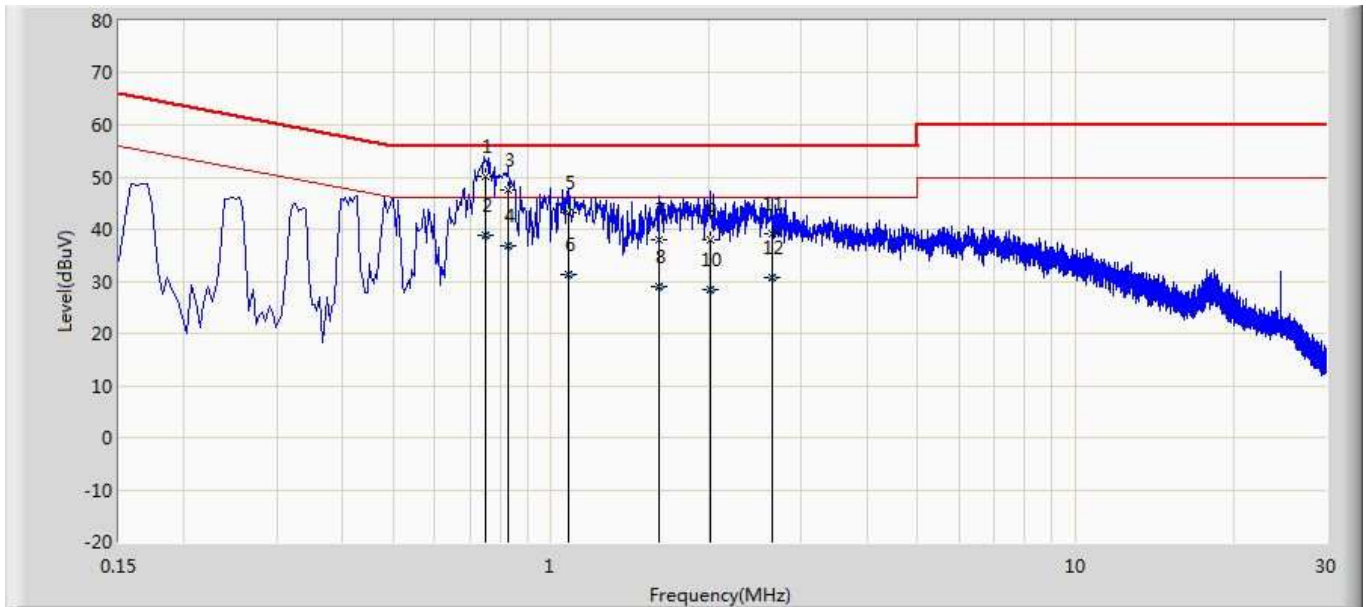
Note 1: The lower limit shall apply at the transition frequencies.
 Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
<input checked="" type="checkbox"/>	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices
<input checked="" type="checkbox"/>	ANSI C63.4-2014	7	AC power-line conducted emission measurements

3.5. Test Result

Engineer: cptJack	
Site: TR1	Time: 2017/12/06
Limit: FCC_Part15.107_CE_AC Power_ClassC	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	

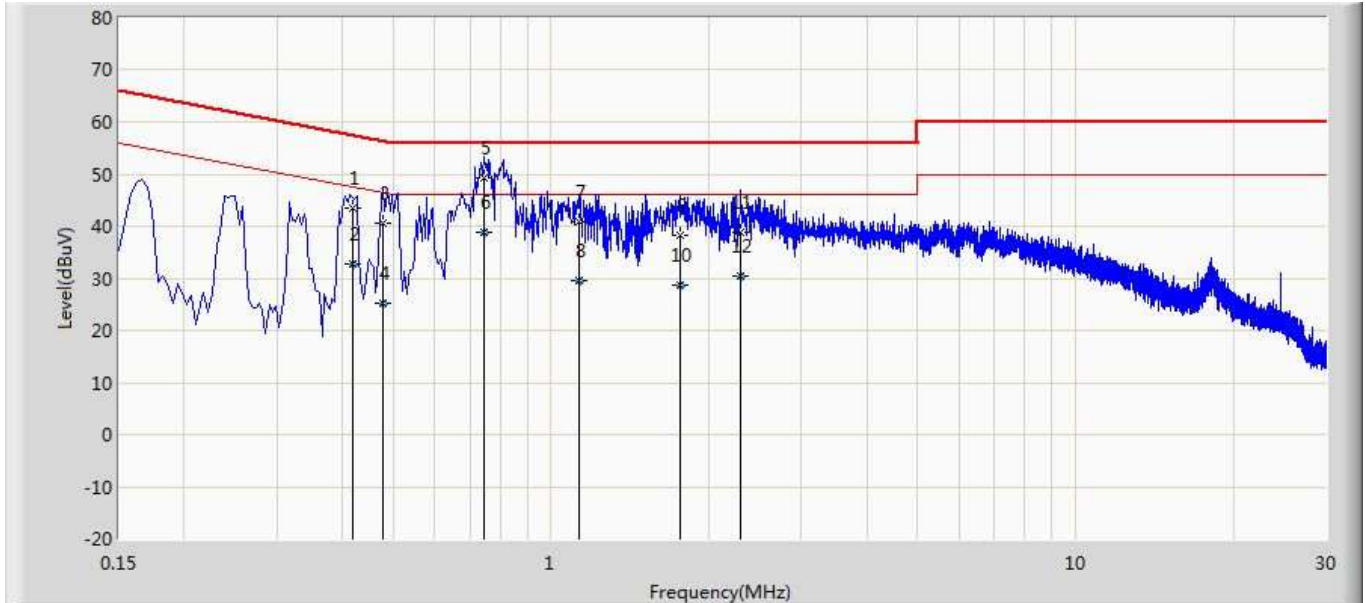


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.749	50.209	40.556	-5.791	56.000	9.602	0.051	0.000	QP
2		0.749	38.808	29.155	-7.192	46.000	9.602	0.051	0.000	AV
3		0.830	47.620	37.976	-8.380	56.000	9.590	0.054	0.000	QP
4		0.830	36.824	27.180	-9.176	46.000	9.590	0.054	0.000	AV
5		1.078	43.101	33.448	-12.899	56.000	9.592	0.062	0.000	QP
6		1.078	31.420	21.767	-14.580	46.000	9.592	0.062	0.000	AV
7		1.610	38.095	28.416	-17.905	56.000	9.602	0.076	0.000	QP
8		1.610	28.907	19.228	-17.093	46.000	9.602	0.076	0.000	AV
9		2.010	37.910	28.213	-18.090	56.000	9.610	0.087	0.000	QP
10		2.010	28.346	18.648	-17.654	46.000	9.610	0.087	0.000	AV
11		2.638	39.118	29.398	-16.882	56.000	9.619	0.101	0.000	QP
12		2.638	30.741	21.021	-15.259	46.000	9.619	0.101	0.000	AV

Note:

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

Engineer: cptJack	
Site: TR1	Time: 2017/12/06
Limit: FCC_Part15.107_CE_AC Power_ClassC	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.419	43.616	33.985	-13.852	57.468	9.592	0.039	0.000	QP
2		0.419	32.787	23.156	-14.681	47.468	9.592	0.039	0.000	AV
3		0.478	40.518	30.887	-15.856	56.374	9.590	0.041	0.000	QP
4		0.478	25.179	15.547	-21.195	46.374	9.590	0.041	0.000	AV
5	*	0.744	49.155	39.514	-6.845	56.000	9.590	0.051	0.000	QP
6		0.744	38.892	29.251	-7.108	46.000	9.590	0.051	0.000	AV
7		1.134	40.964	31.309	-15.036	56.000	9.593	0.063	0.000	QP
8		1.134	29.560	19.905	-16.440	46.000	9.593	0.063	0.000	AV
9		1.766	38.246	28.560	-17.754	56.000	9.606	0.080	0.000	QP
10		1.766	28.796	19.110	-17.204	46.000	9.606	0.080	0.000	AV
11		2.302	38.955	29.246	-17.045	56.000	9.614	0.094	0.000	QP
12		2.302	30.320	20.612	-15.680	46.000	9.614	0.094	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

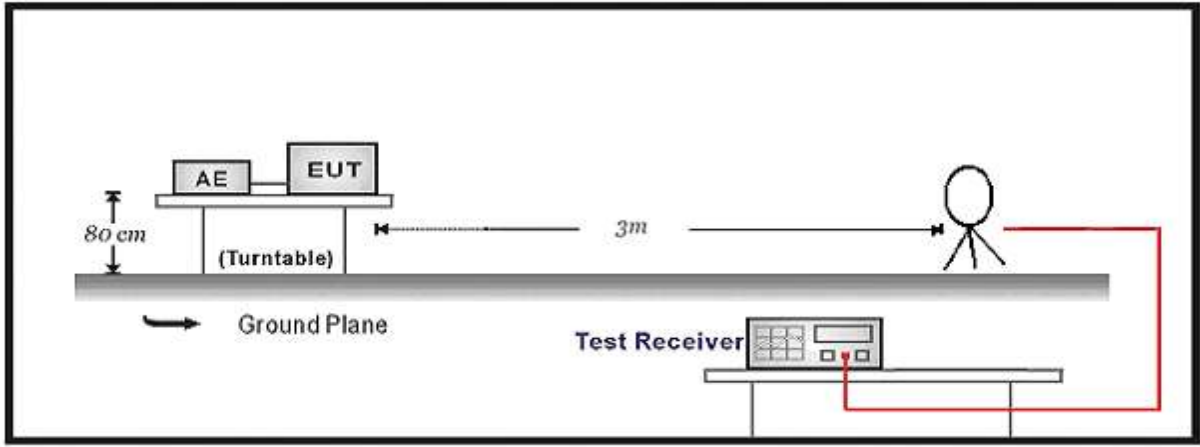
4.1. Test Equipment

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	2017.11.16	2018.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2017.10.16	2018.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2017.03.02	2018.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

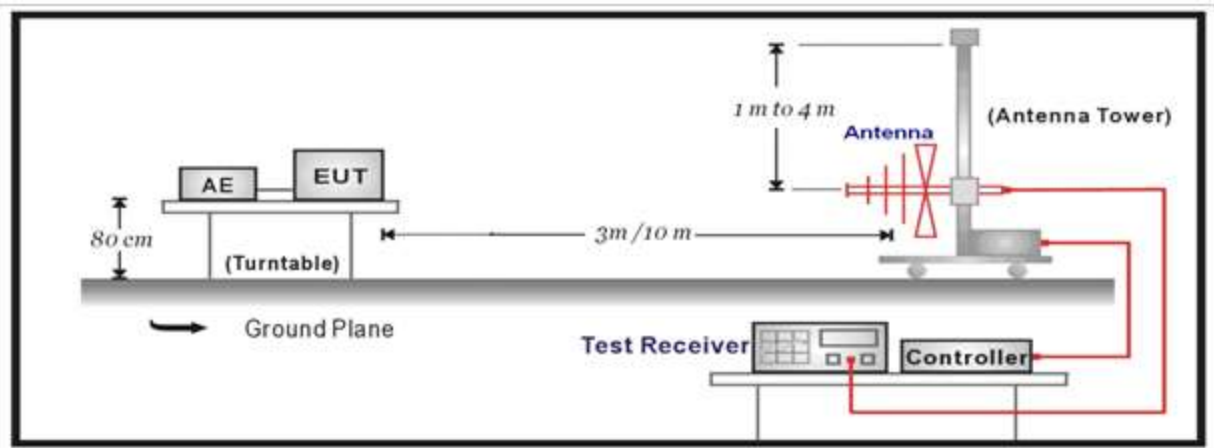
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.03	2018.01.02
Preamplifier	Miteq	NSP1800-25	1364185	2017.05.06	2018.05.05
Preamplifier	DEKRA Testing and Certification (Suzhou) Co., Ltd.	AP-040G	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	2017.11.25	2018.11.24
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	2017.06.10	2018.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

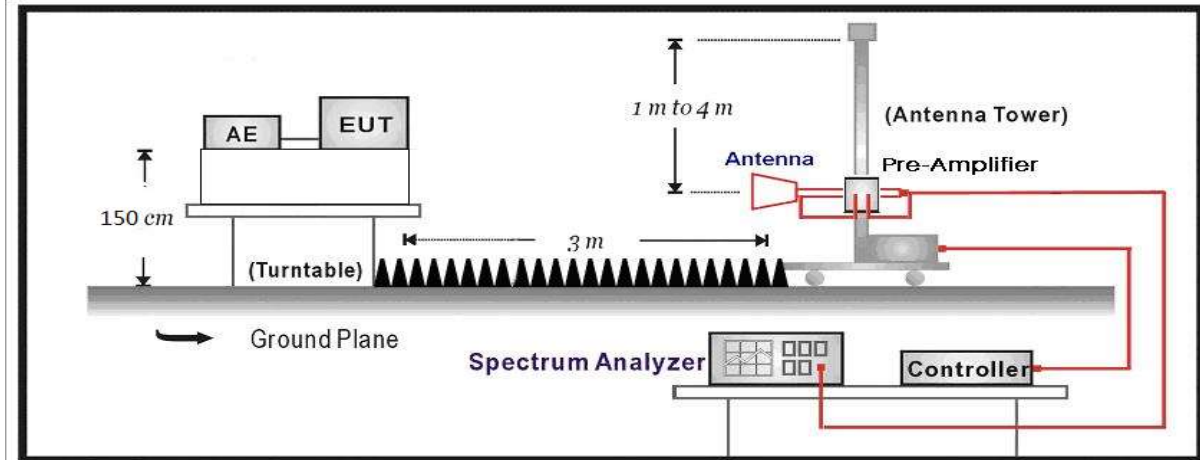
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

For 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			

For 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 ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	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)

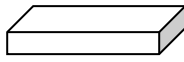
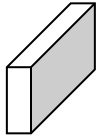
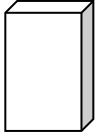
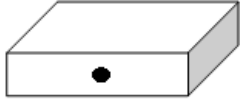
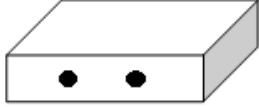

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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

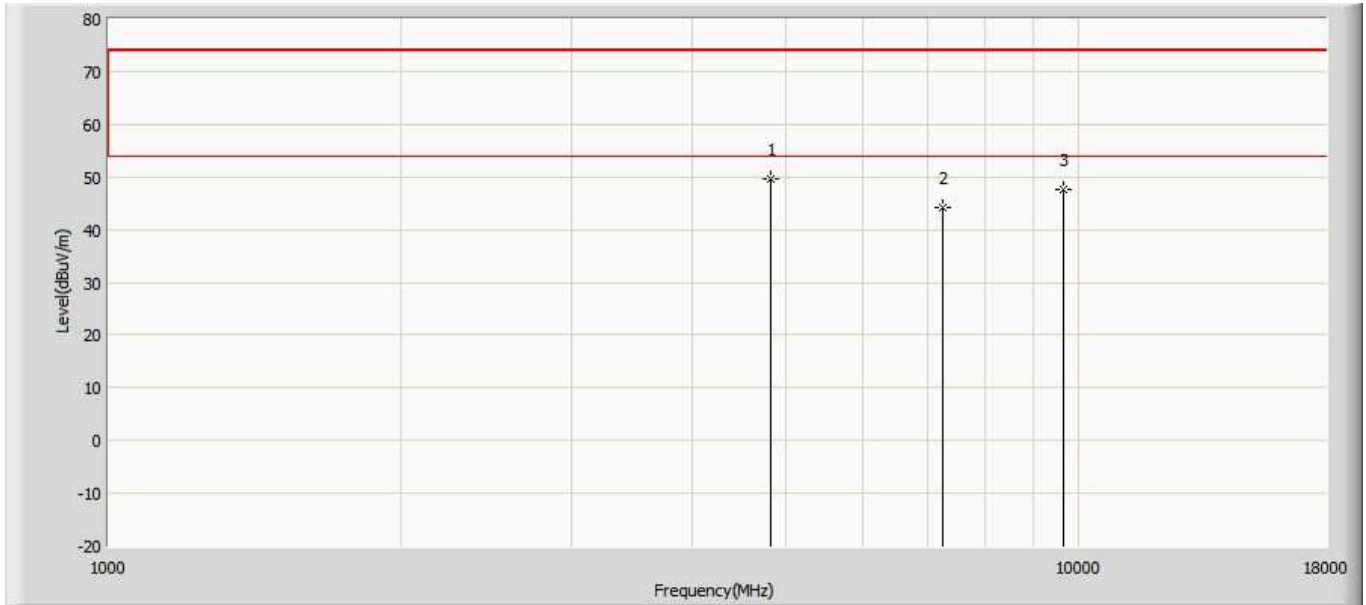
Test Method				
	References	Rule	Chapter	Description
<input type="checkbox"/>		ANSI C63.10	11.11	Emissions in non-restricted frequency bands
	<input type="checkbox"/>	ANSI C63.10	11.11.2	Reference level measurement
	<input type="checkbox"/>	ANSI C63.10	11.11.3	Emission level measurement
<input checked="" type="checkbox"/>		ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/>	ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.7	Radiated spurious emission test
	<input checked="" type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	<input checked="" type="checkbox"/>	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input checked="" type="checkbox"/>	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	<input type="checkbox"/>	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.5	Average power measurement procedures
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.1 Trace averaging with continuous EUT transmission at full power
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.2 Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
		<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input checked="" type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

4.6. Test Result

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



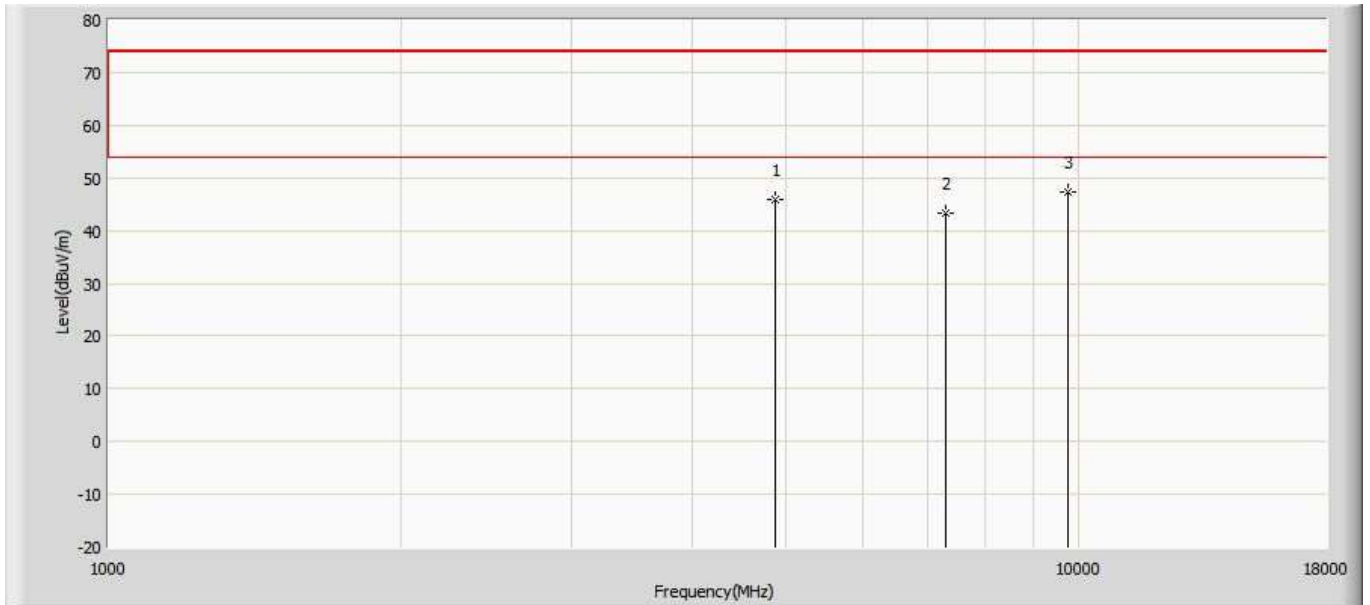
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4825.000	49.571	62.581	-24.429	74.000	-13.010	PK
2		7236.000	44.200	51.910	-29.800	74.000	-7.710	PK
3		9648.000	47.529	49.119	-26.471	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



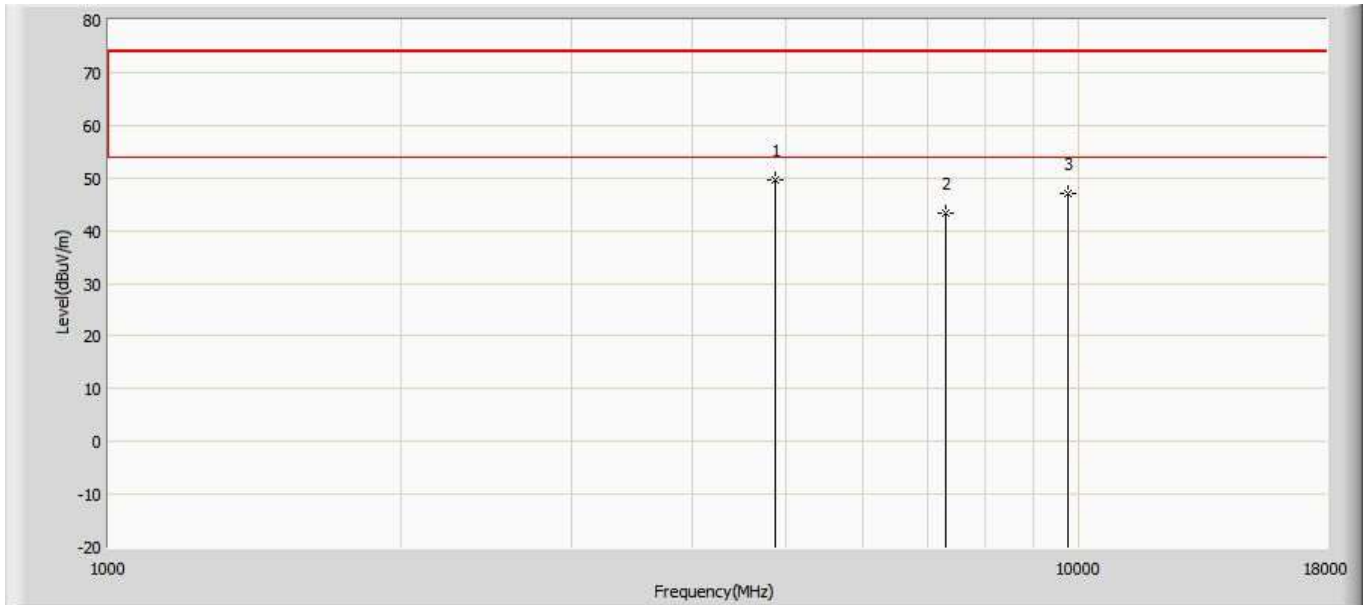
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4824.020	52.965	65.975	-1.035	54.000	-13.010	AV
2		4825.000	54.573	67.583	-19.427	74.000	-13.010	PK
3		7236.000	45.545	53.255	-28.455	74.000	-7.710	PK
4		9648.000	47.455	49.045	-26.545	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11B	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	45.991	59.001	-28.009	74.000	-13.010	PK
2		7311.000	43.387	51.097	-30.613	74.000	-7.710	PK
3	*	9748.000	47.419	49.009	-26.581	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11B	



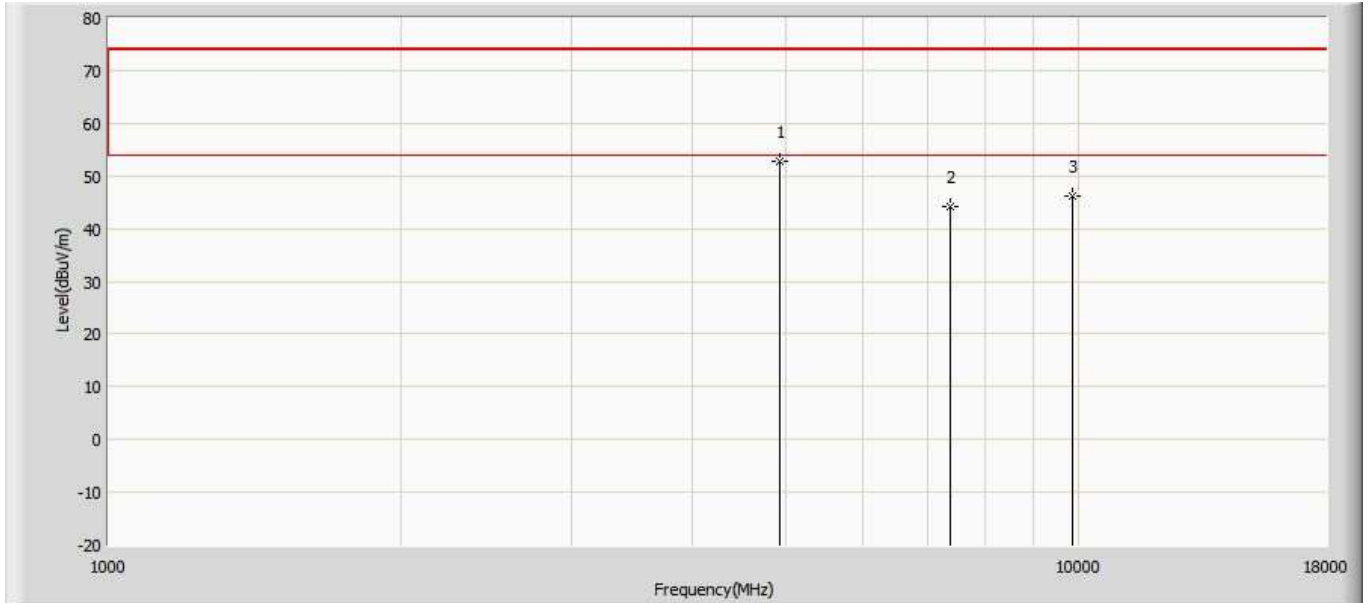
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	49.563	62.573	-24.437	74.000	-13.010	PK
2		7311.000	43.384	51.094	-30.616	74.000	-7.710	PK
3		9748.000	46.924	48.514	-27.076	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11B	



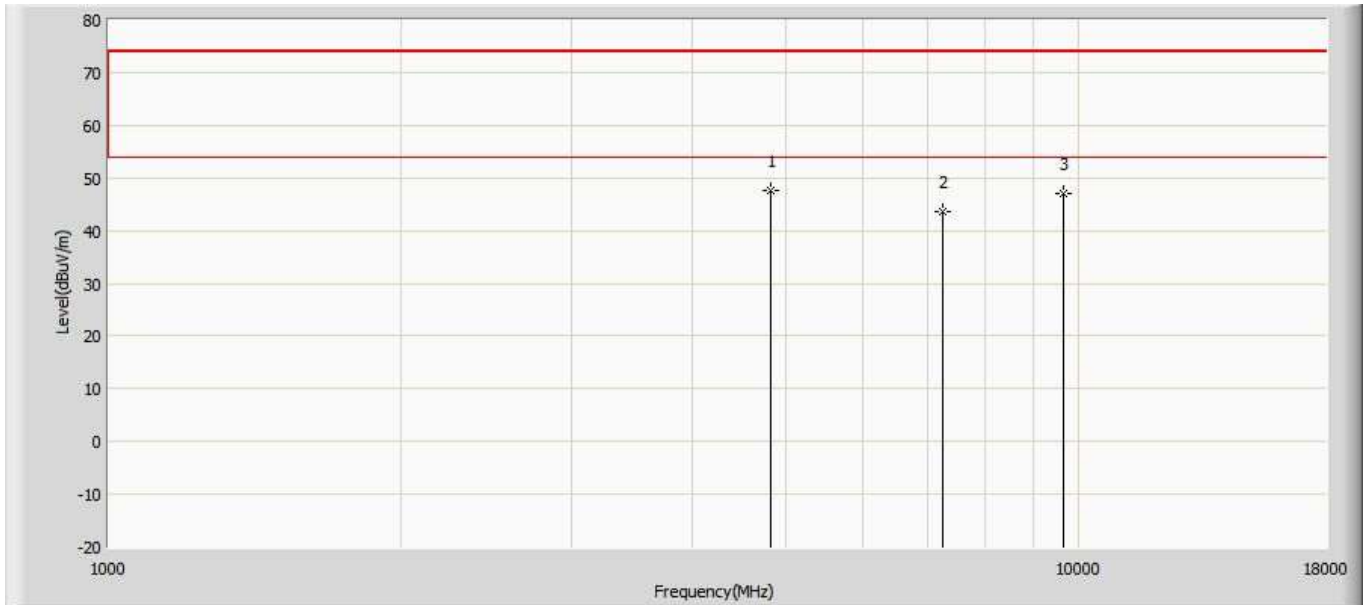
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4927.000	47.124	60.134	-26.876	74.000	-13.010	PK
2		7386.000	43.634	51.344	-30.366	74.000	-7.710	PK
3		9848.000	46.973	48.563	-27.027	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11B	



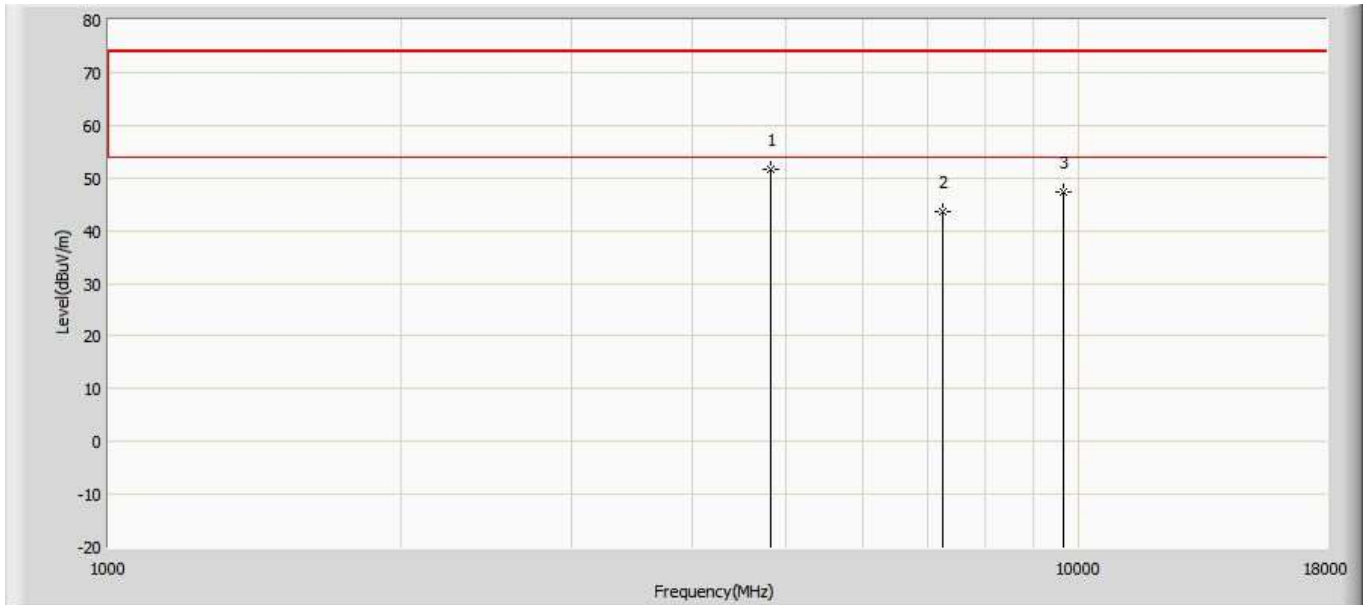
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4927.000	52.719	65.729	-21.281	74.000	-13.010	PK
2		7386.000	44.060	51.770	-29.940	74.000	-7.710	PK
3		9848.000	46.056	47.646	-27.944	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11G	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4825.000	47.736	60.746	-26.264	74.000	-13.010	PK
2		7236.000	43.541	51.251	-30.459	74.000	-7.710	PK
3		9648.000	47.147	48.737	-26.853	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11G	



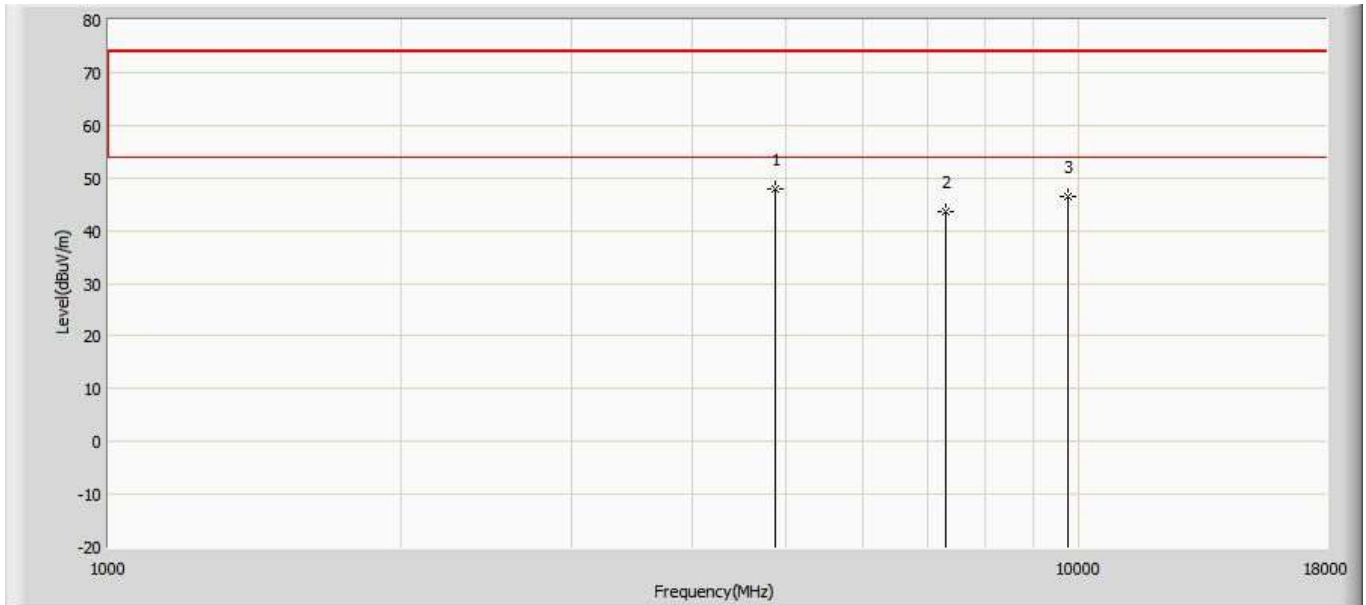
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4816.500	51.749	64.759	-22.251	74.000	-13.010	PK
2		7236.000	43.709	51.419	-30.291	74.000	-7.710	PK
3		9648.000	47.296	48.886	-26.704	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11G	



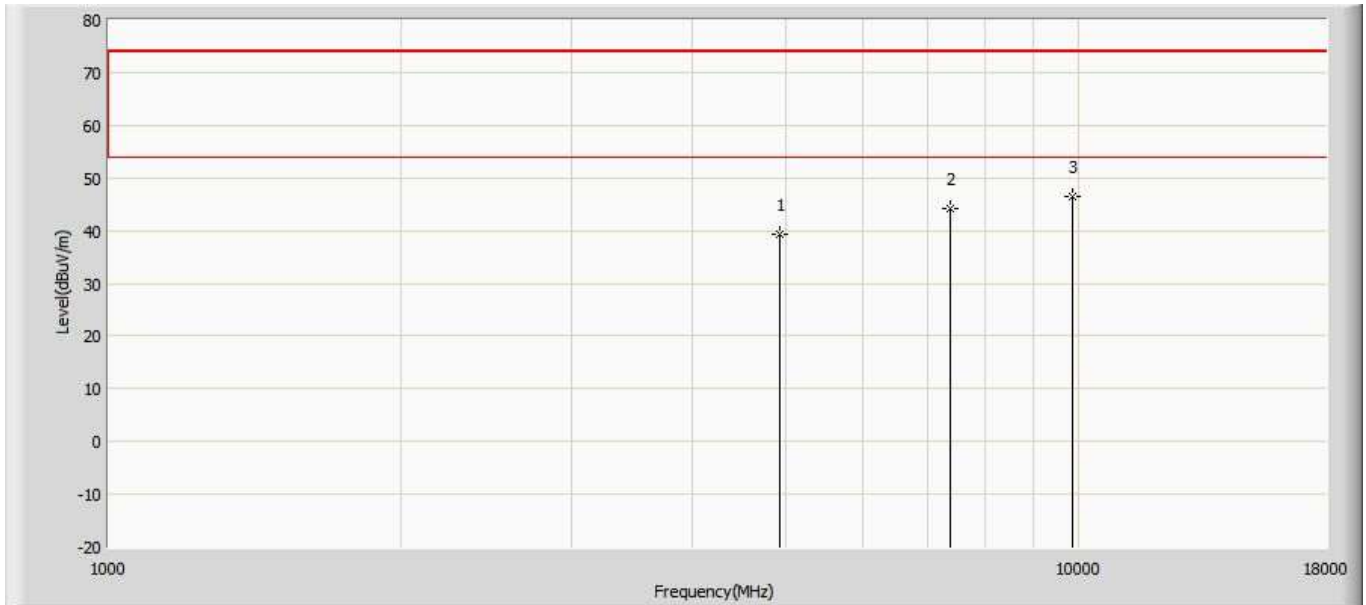
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	45.848	58.858	-28.152	74.000	-13.010	PK
2		7311.000	43.302	51.012	-30.698	74.000	-7.710	PK
3	*	9748.000	47.279	48.869	-26.721	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11G	



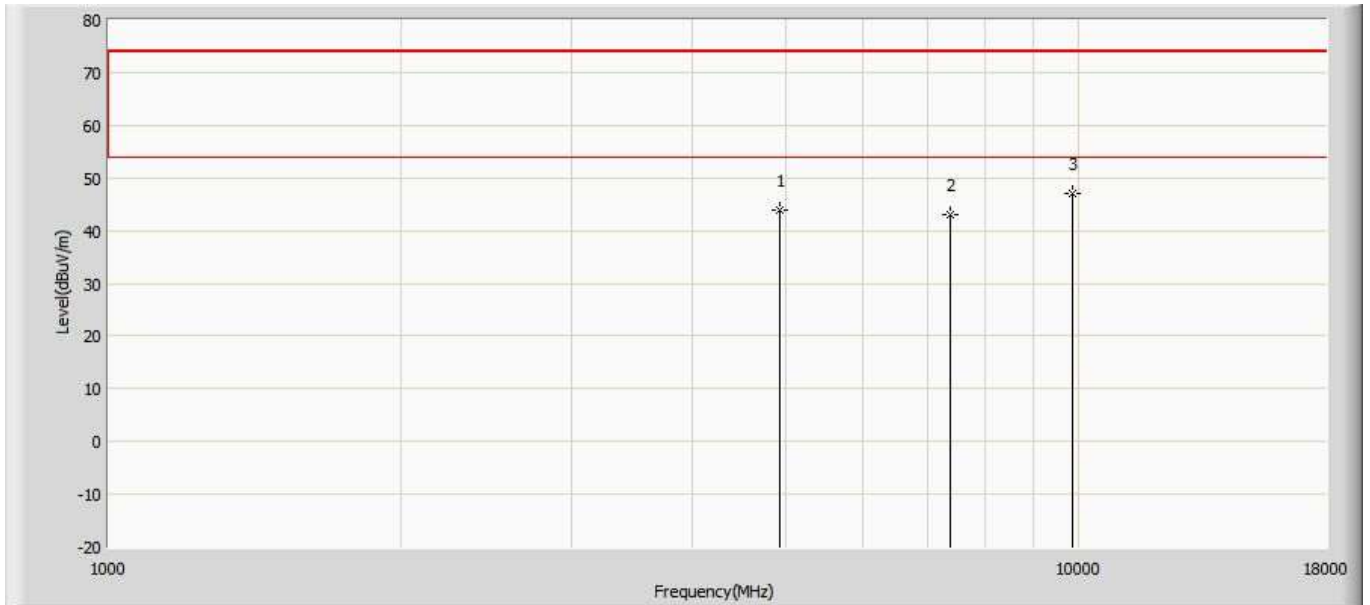
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	47.952	60.962	-26.048	74.000	-13.010	PK
2		7311.000	43.473	51.183	-30.527	74.000	-7.710	PK
3		9748.000	46.420	48.010	-27.580	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11G	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.383	52.393	-34.617	74.000	-13.010	PK
2		7386.000	44.211	51.921	-29.789	74.000	-7.710	PK
3	*	9848.000	46.445	48.035	-27.555	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11G	



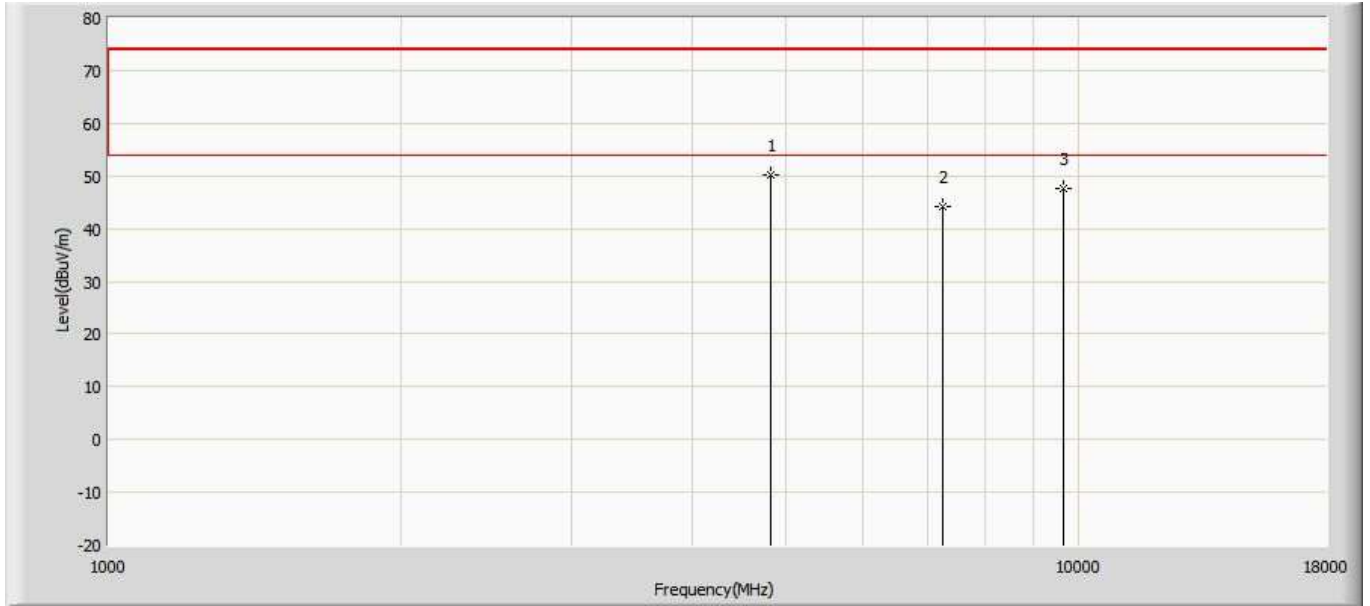
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4927.000	43.801	56.811	-30.199	74.000	-13.010	PK
2		7386.000	43.058	50.768	-30.942	74.000	-7.710	PK
3	*	9848.000	47.154	48.744	-26.846	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11N20	



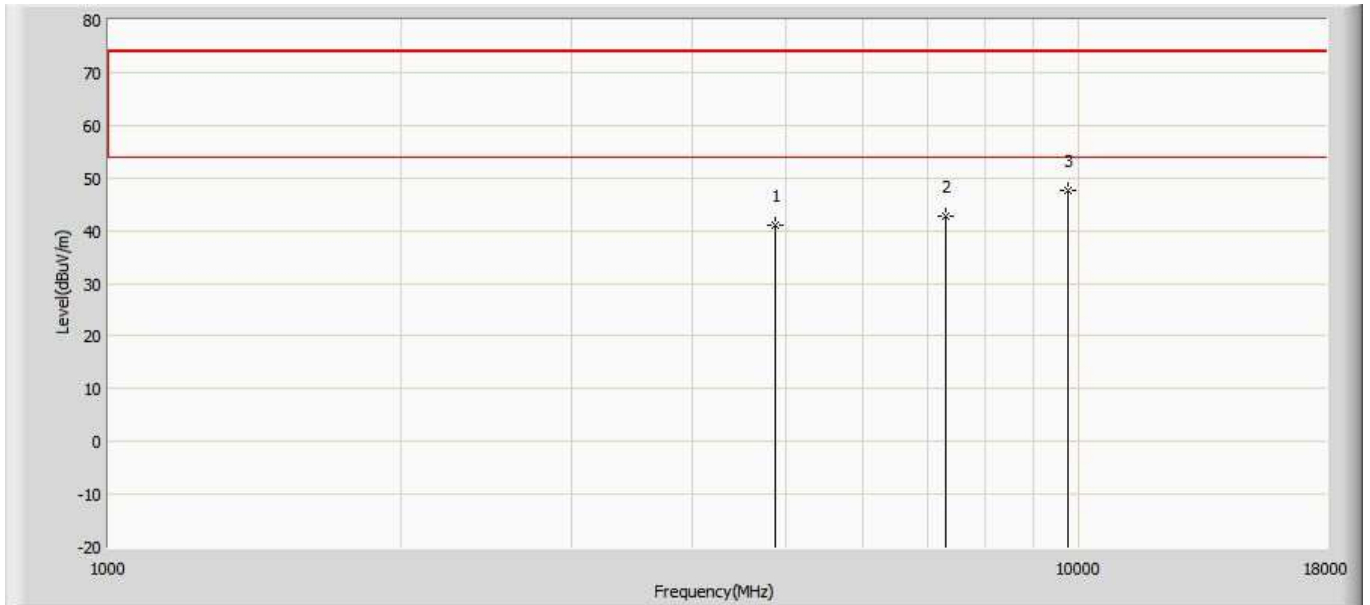
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4825.000	44.272	57.282	-29.728	74.000	-13.010	PK
2		7236.000	43.379	51.089	-30.621	74.000	-7.710	PK
3	*	9648.000	46.987	48.577	-27.013	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11N20	



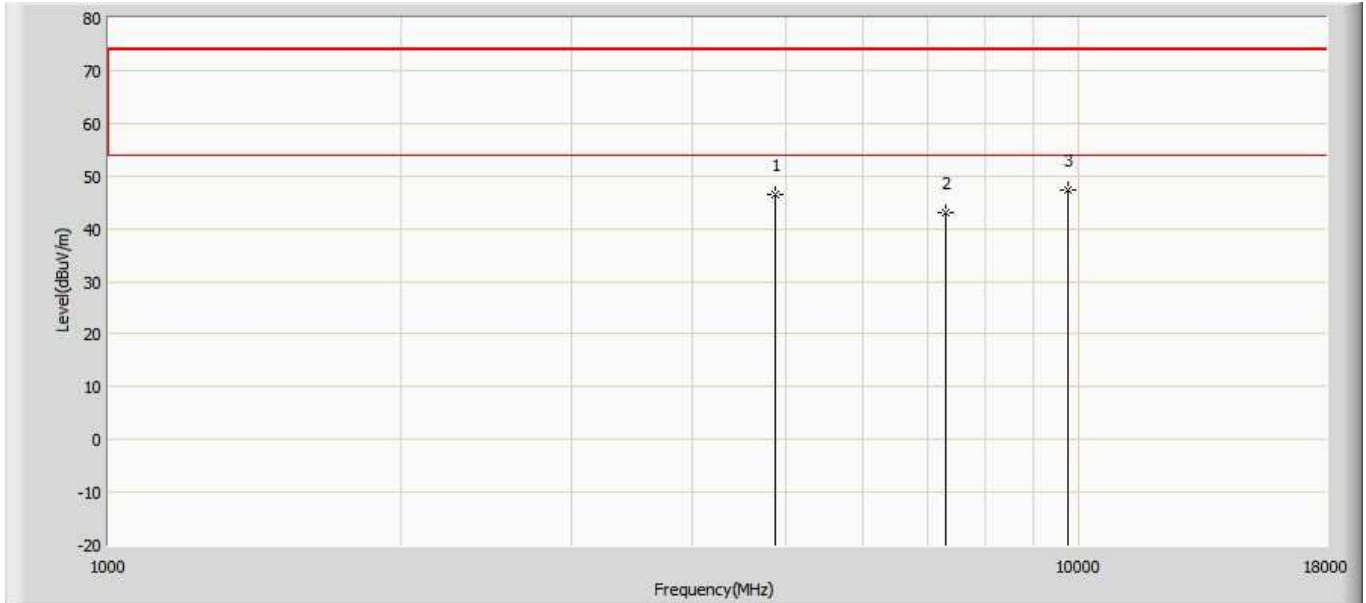
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4825.000	50.258	63.268	-23.742	74.000	-13.010	PK
2		7236.000	44.048	51.758	-29.952	74.000	-7.710	PK
3		9648.000	47.483	49.073	-26.517	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11N20	



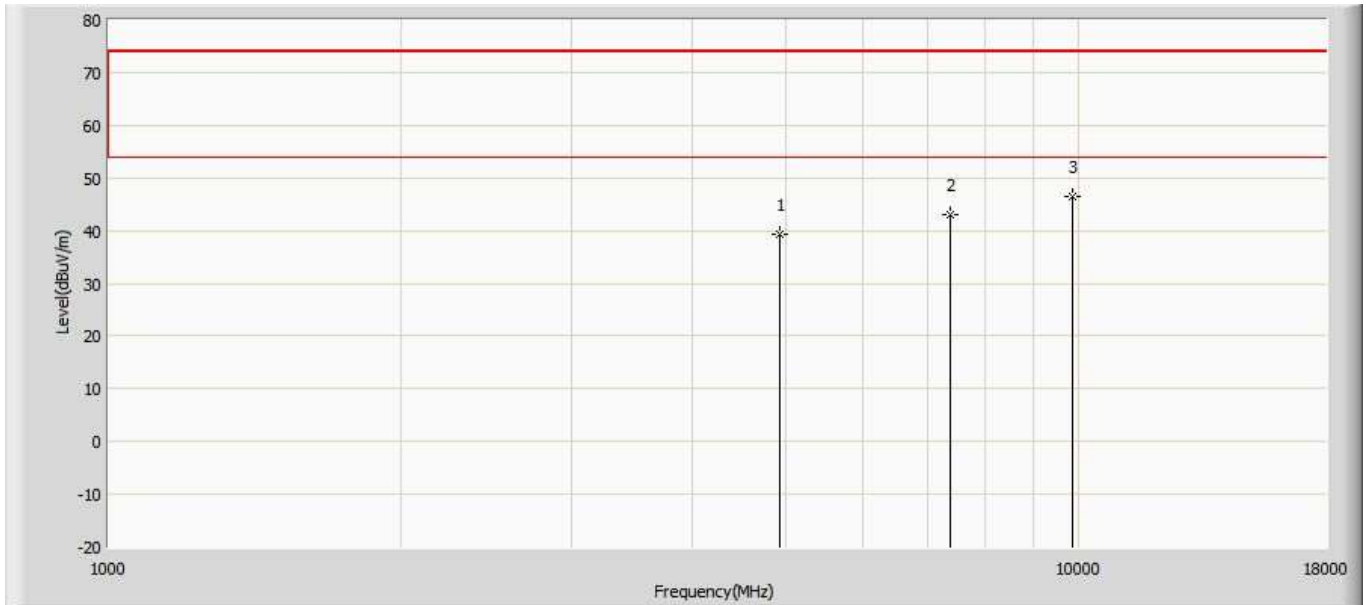
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	41.045	54.055	-32.955	74.000	-13.010	PK
2		7311.000	42.810	50.520	-31.190	74.000	-7.710	PK
3	*	9748.000	47.638	49.228	-26.362	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11N20	



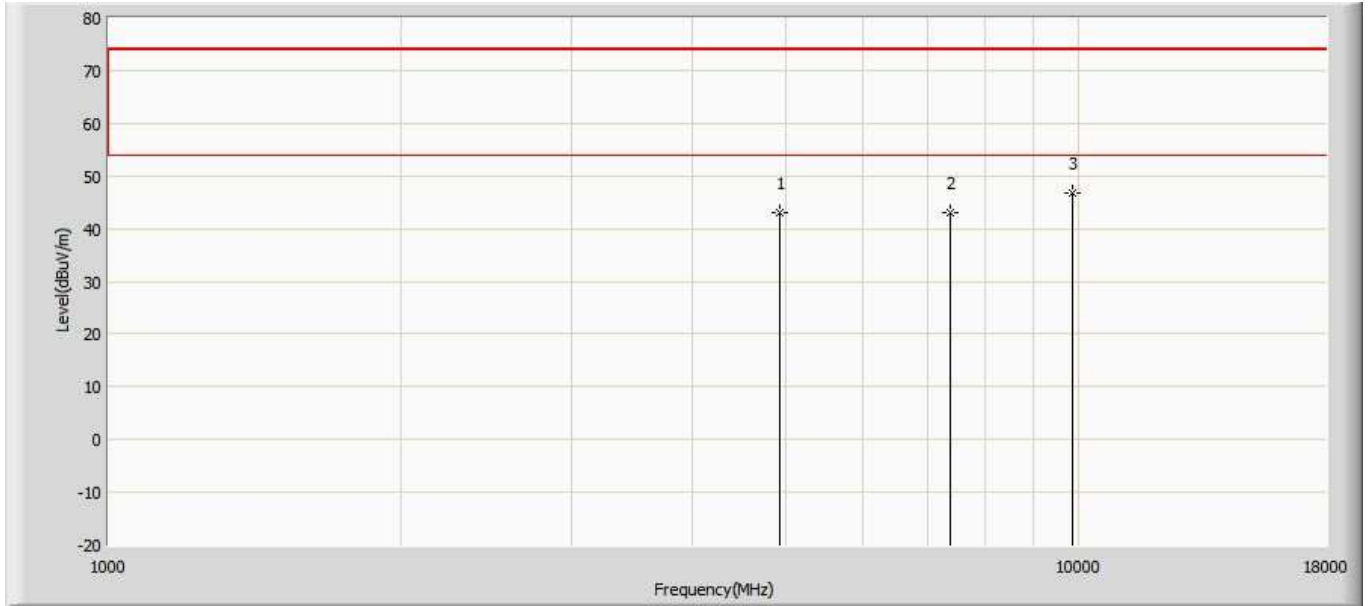
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	46.470	59.480	-27.530	74.000	-13.010	PK
2		7311.000	43.036	50.746	-30.964	74.000	-7.710	PK
3	*	9748.000	47.415	49.005	-26.585	74.000	-1.590	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11N20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.446	52.456	-34.554	74.000	-13.010	PK
2		7386.000	43.053	50.763	-30.947	74.000	-7.710	PK
3	*	9848.000	46.436	48.026	-27.564	74.000	-1.590	PK

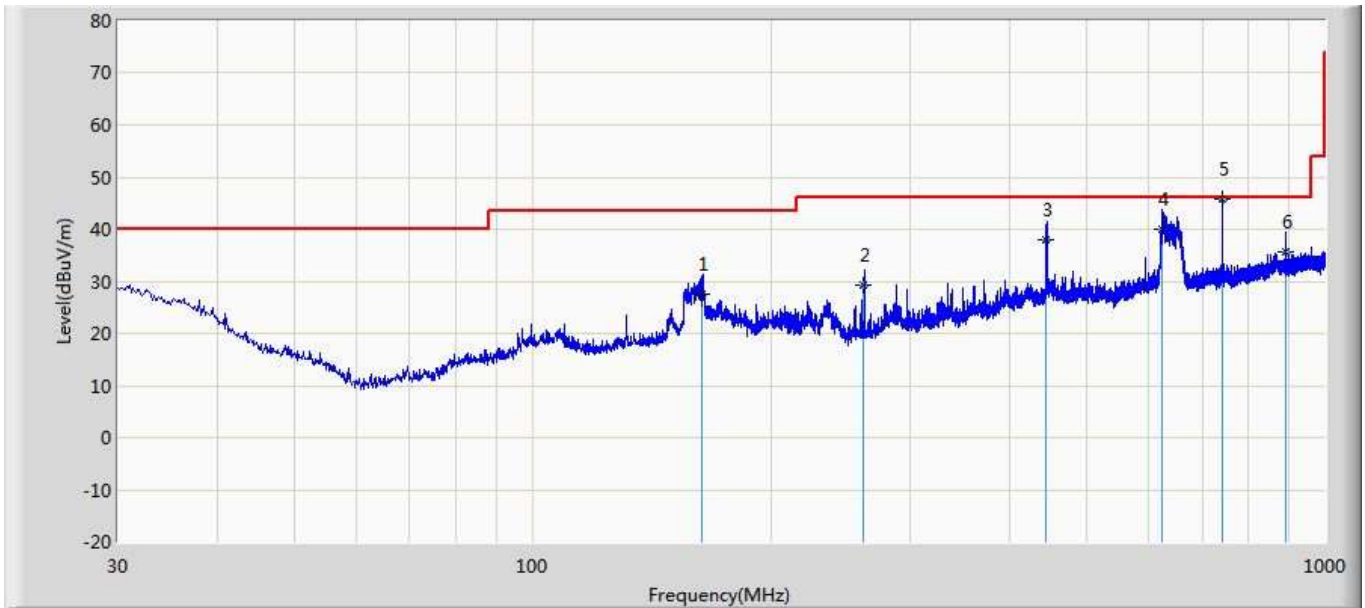
Engineer:Slark	
Site:AC5	Time: 2017/08/03 - 11:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11N20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4918.500	43.147	56.157	-30.853	74.000	-13.010	PK
2		7386.000	43.019	50.729	-30.981	74.000	-7.710	PK
3	*	9848.000	46.863	48.453	-27.137	74.000	-1.590	PK

The worst case of Radiated Emission below 1GHz:

Engineer: Leon	
Site: AC3	Time: 2017/10/30
Limit: FCC_Part15.109_RE(3m)_ClassC	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	

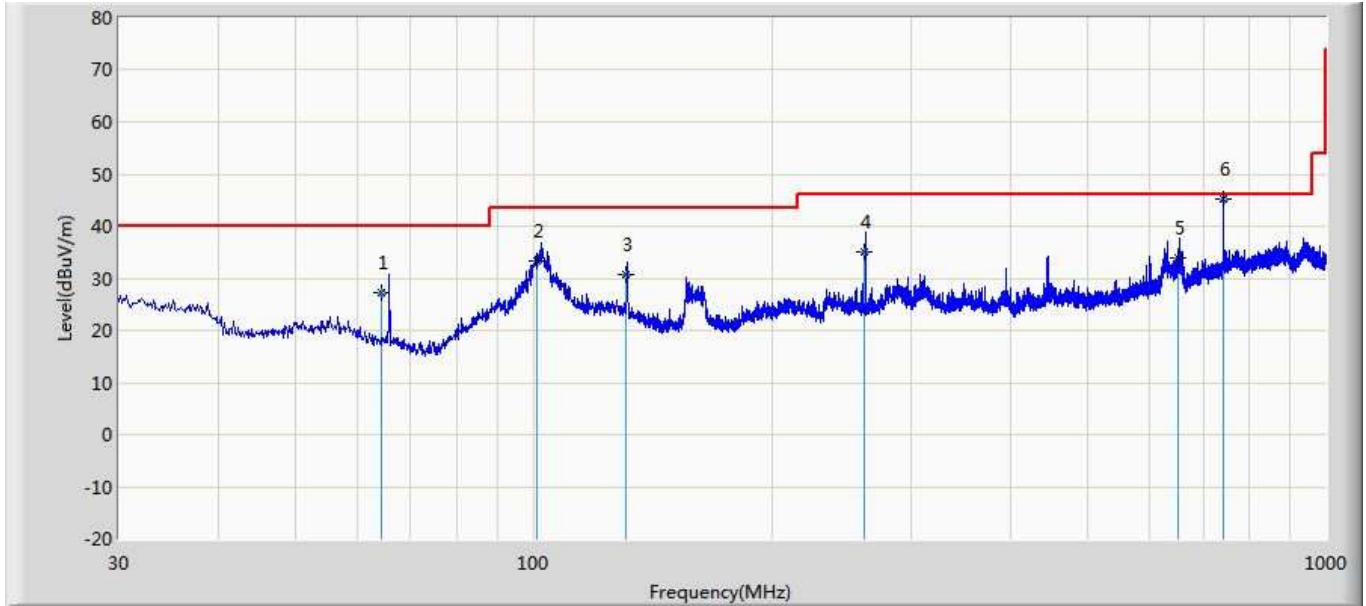


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		163.325	27.529	10.021	-15.971	43.500	10.369	7.139	0.000	100	125	QP
2		261.125	29.243	10.362	-16.757	46.000	11.388	7.493	0.000	200	59	QP
3		444.328	37.865	11.336	-8.135	46.000	18.507	8.022	0.000	200	126	QP
4		622.365	39.941	10.214	-6.059	46.000	21.243	8.484	0.000	100	360	QP
5	*	742.480	45.675	16.500	-0.325	46.000	20.421	8.754	0.000	100	40	QP
6		890.378	35.703	4.365	-10.297	46.000	22.260	9.078	0.000	200	229	QP

Note:

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

Engineer: Leon	
Site: AC3	Time: 2017/10/30
Limit: FCC_Part15.109_RE(3m)_ClassC	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



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		64.325	27.194	11.325	-12.806	40.000	9.197	6.672	0.000	100	360	QP
2		101.225	33.448	11.336	-10.052	43.500	15.252	6.860	0.000	200	265	QP
3		130.558	30.755	9.789	-12.745	43.500	13.973	6.993	0.000	100	16	QP
4		261.366	34.999	12.336	-11.001	46.000	15.168	7.495	0.000	200	15	QP
5		651.336	33.960	6.369	-12.040	46.000	19.042	8.549	0.000	200	228	QP
6	*	742.515	45.154	14.600	-0.846	46.000	21.800	8.754	0.000	100	51	QP

Note:

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

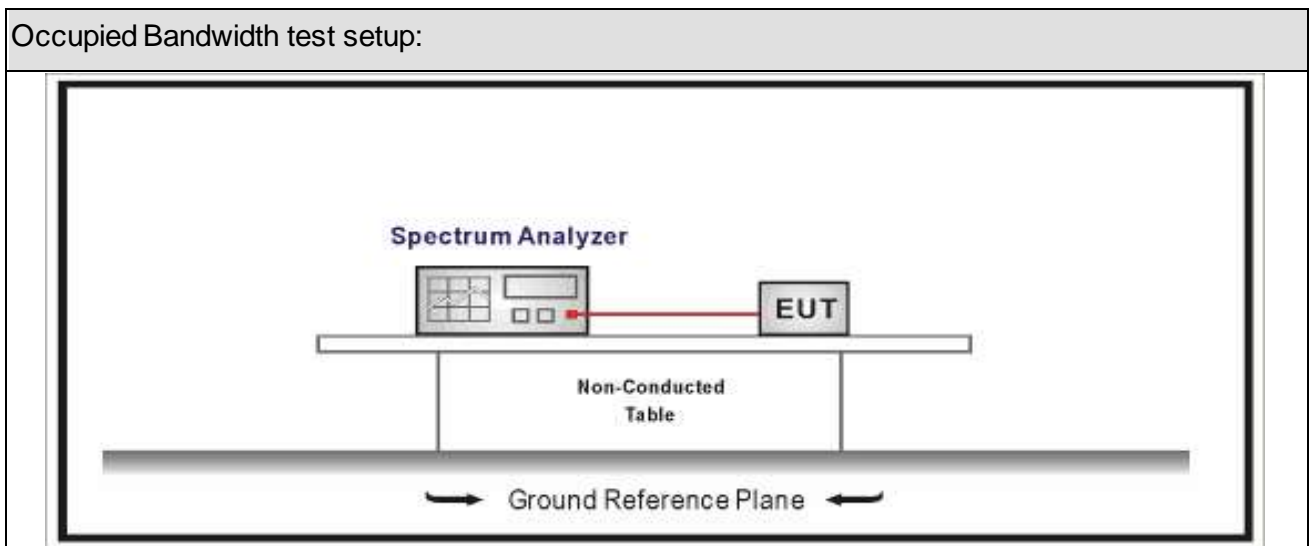
5. Emissions in non-restricted frequency bands

5.1. Test Equipment

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 equipments 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)

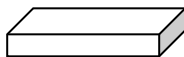
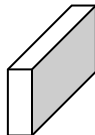
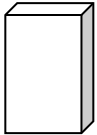

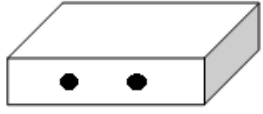

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

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	
<input checked="" type="checkbox"/>		ANSI C63.10	11.11	Emissions in non-restricted frequency bands	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.11.2	Reference level measurement	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.11.3	Emission level measurement	
<input type="checkbox"/>		ANSI C63.10	11.12	Emissions in restricted frequency bands	
	<input type="checkbox"/>	ANSI C63.10	11.12.1	Radiated emission measurements	
	<input type="checkbox"/>	ANSI C63.10	11.12.2.7	Radiated spurious emission test	
<input type="checkbox"/>		ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz	
<input type="checkbox"/>		ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz	
<input checked="" type="checkbox"/>		ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2	Antenna-port conducted measurements	
	<input type="checkbox"/>	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure	
	<input type="checkbox"/>	ANSI C63.10	11.12.2.4	Peak power measurement procedure	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.5	Average power measurement procedures	
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
		<input type="checkbox"/>	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	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1 ~ Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 0		
				
	<input type="checkbox"/>	Chain 0	Chain 1	
				
	<input type="checkbox"/>	Chain 0	Chain 1	Chain 2
				

5.6. Test Result

Product Name	: GEYE 900	Power	: AC 120V/60Hz
Test Mode	: Mode1~3	Test Site	: TR8
Test Date	: 2017.08.31		

Antenna #1

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	01	2412	7.778	2400	-33.885	41.663	>30	Pass
1	11	2462	9.142	2500	-51.075	60.217	>30	Pass
2	01	2412	4.753	2400	-26.958	31.711	>30	Pass
2	11	2462	2.359	2500	-53.213	55.572	>30	Pass
3	01	2412	3.421	2400	-32.049	35.470	>30	Pass
3	11	2462	2.239	2500	-53.714	55.953	>30	Pass

Note 1: The worst case of Emissions in non-restricted frequency bands as below:

2: As the radiated emission was performed, so conducted emission was only tested for the nearest emission of fundamental frequency.

Mode 2 CH01(2412MHz)

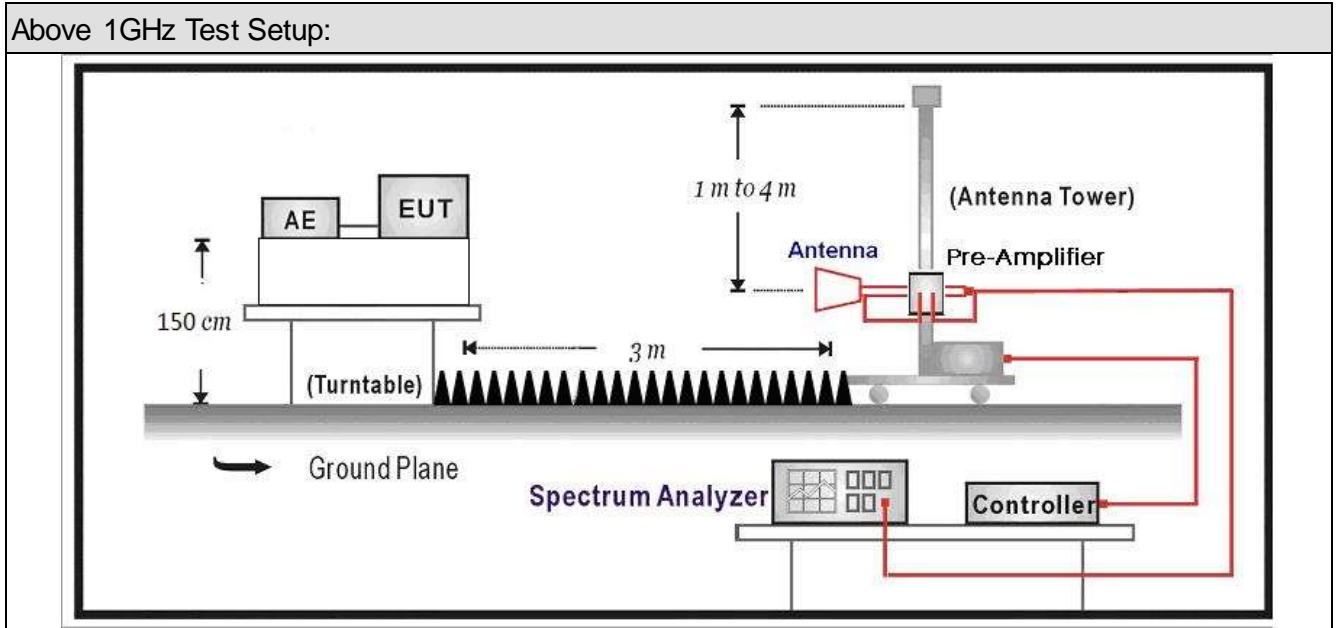


6. Radiated Emission Band Edge

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	2017.09.18	2018.09.17
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
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

6.2. Test Setup



6.3. Limit

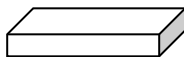
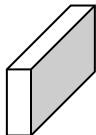
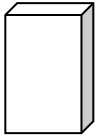

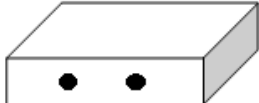

Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

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

6.4. Test Procedure

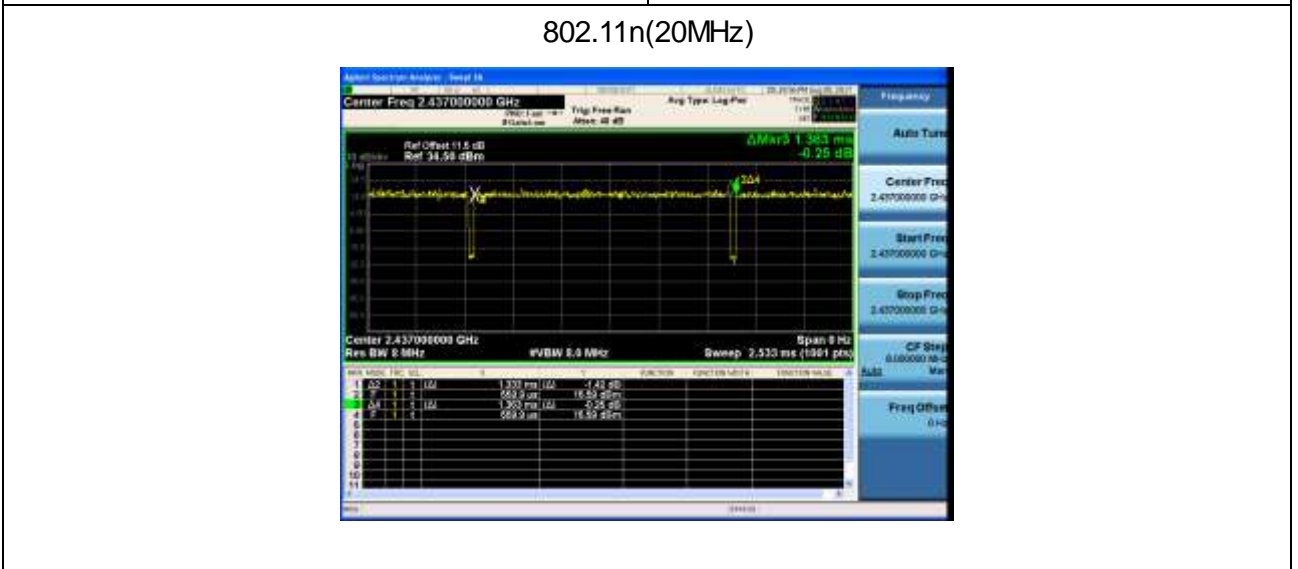
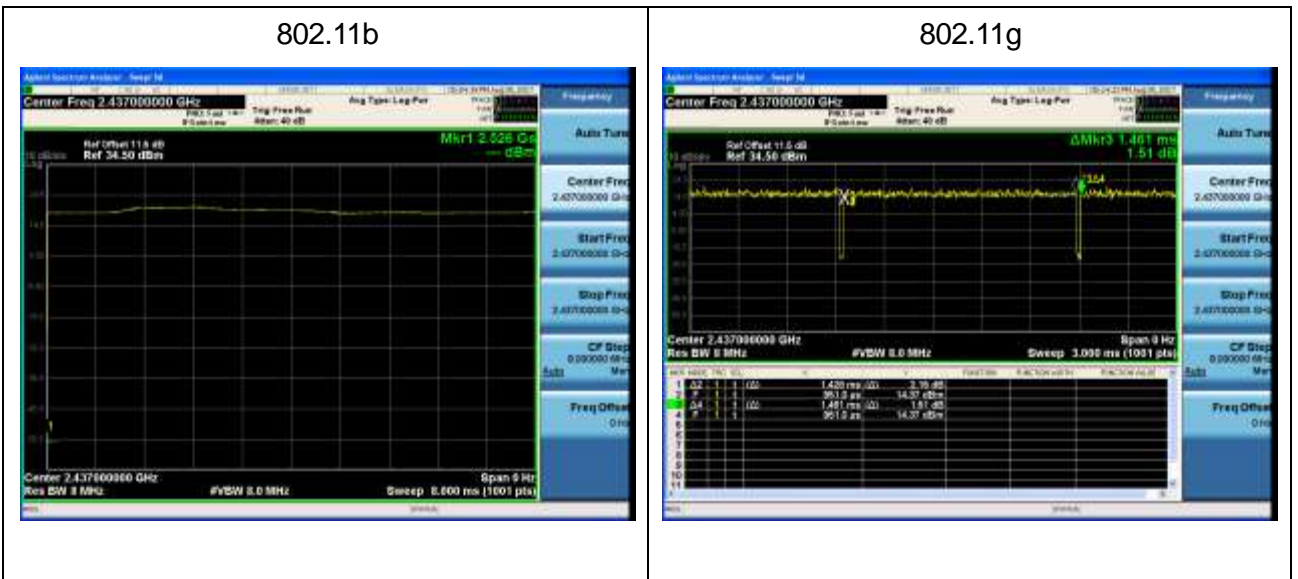
Test Method					
	References	Rule	Chapter	Description	
<input checked="" type="checkbox"/>		ANSI C63.10	6.10	Band-edge testing	
	<input checked="" type="checkbox"/>	ANSI C63.10	6.10.5	Restricted-band band-edge measurements	
	<input type="checkbox"/>	ANSI C63.10	6.10.6	Marker-delta method	
<input checked="" type="checkbox"/>		ANSI C63.10	11.12	Emissions in restricted frequency bands	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.12.1	Radiated emission measurements	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.7	Radiated spurious emission test	
<input type="checkbox"/>		ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz	
<input type="checkbox"/>		ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz	
<input checked="" type="checkbox"/>		ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz	
		<input type="checkbox"/>	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
		<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.4	Peak power measurement procedure
		<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.5	Average power measurement procedures
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
		<input checked="" type="checkbox"/>	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	Emissions in non-restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input checked="" type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

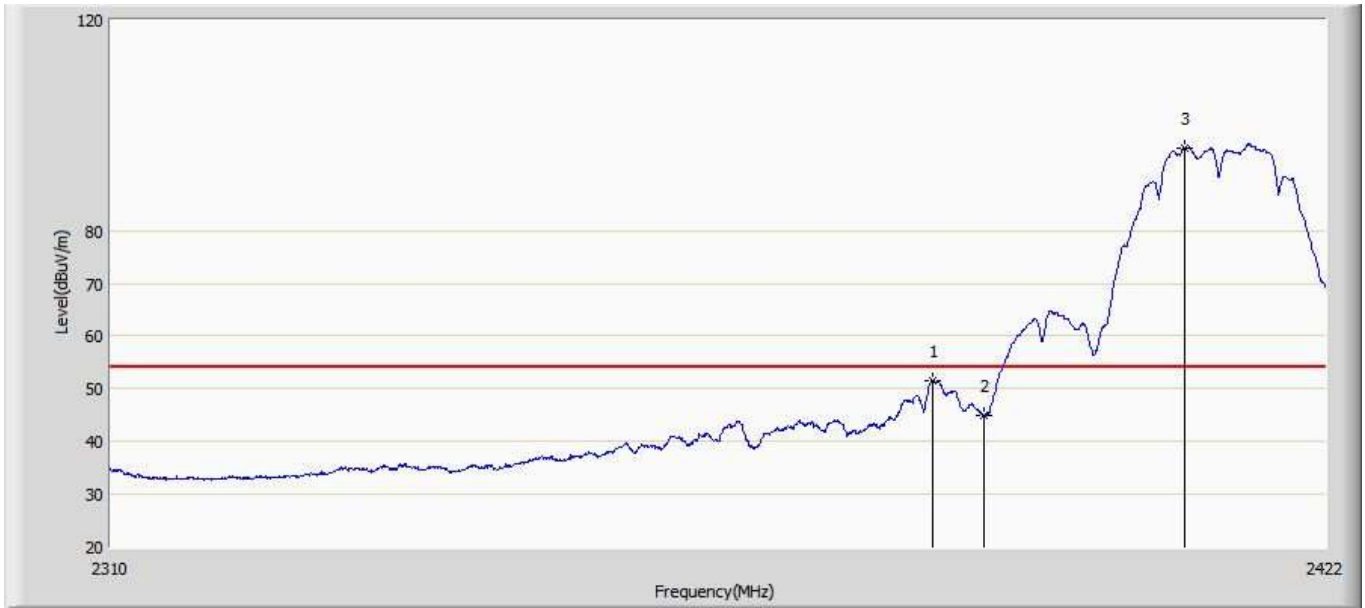
6.6. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11b	N/A	N/A	10Hz	N/A	100%
802.11g	1.428	0.033	750Hz	1.461	97.74%
802.11n(20MHz)	1.333	0.030	820Hz	1.363	97.80%



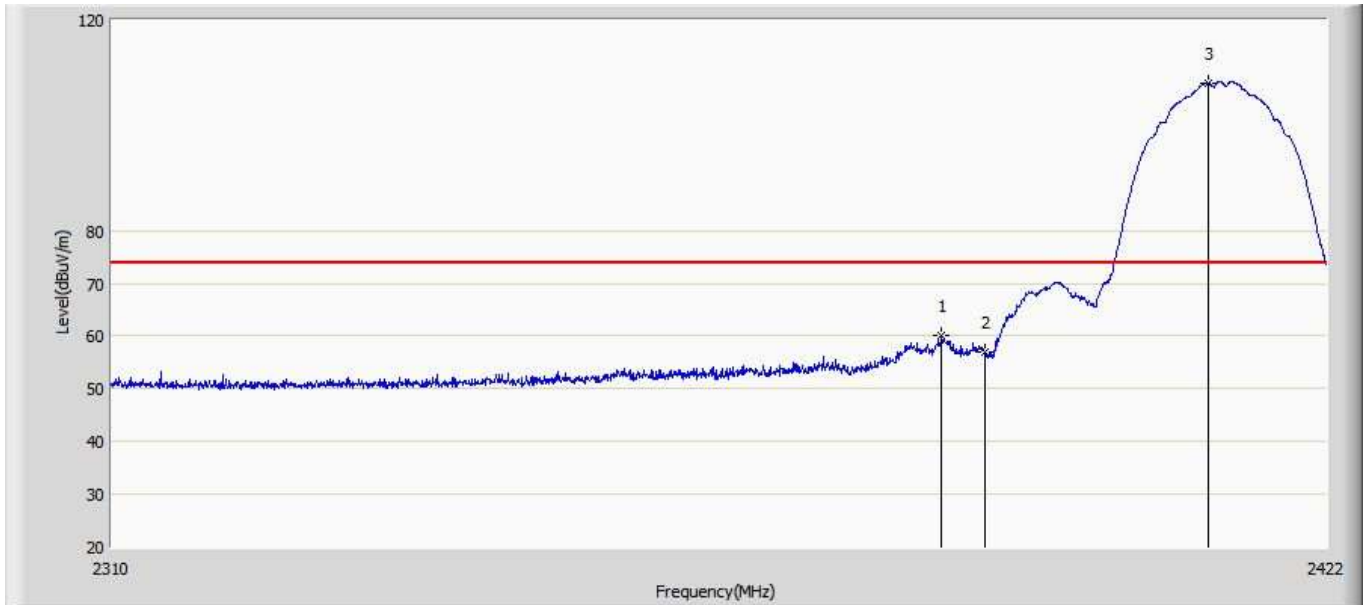
6.7. Test Result

Engineer:Slark	
Site:AC5	Time:2017/08/01 - 14:00
Limit:FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



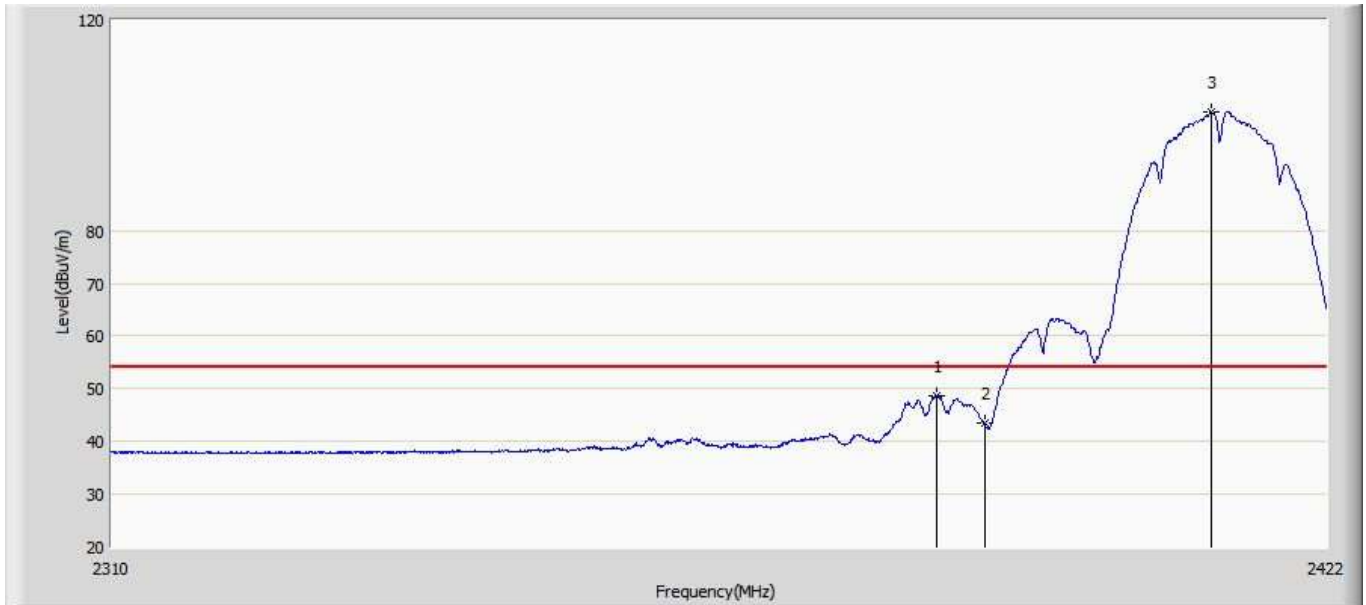
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.208	51.542	22.492	-2.458	54.000	29.050	AV
2		2390.000	44.789	15.741	-9.211	54.000	29.048	AV
3	*	2408.728	95.688	66.800	N/A	N/A	28.888	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 14:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



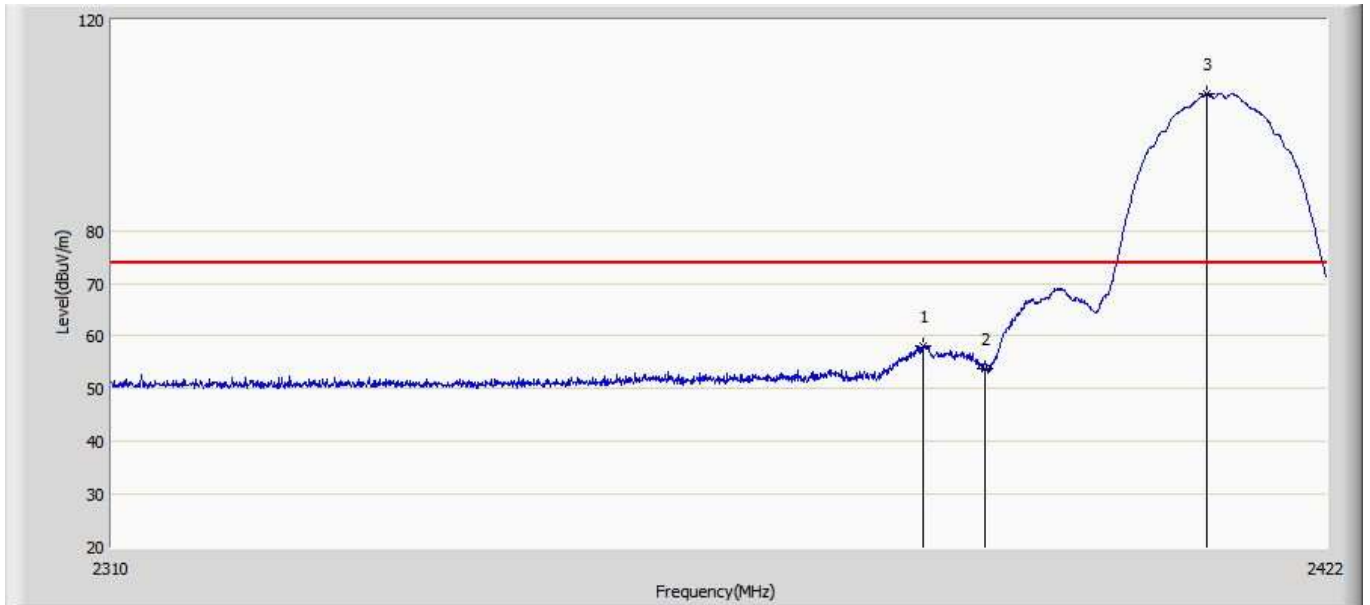
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.992	60.190	31.140	-13.810	74.000	29.050	PK
2		2390.000	57.039	27.991	-16.961	74.000	29.048	PK
3	*	2410.856	108.056	79.191	N/A	N/A	28.865	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 14:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.544	48.737	19.687	-5.263	54.000	29.050	AV
2		2390.000	43.375	14.327	-10.625	54.000	29.048	AV
3	*	2411.136	102.528	73.664	N/A	N/A	28.864	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 14:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



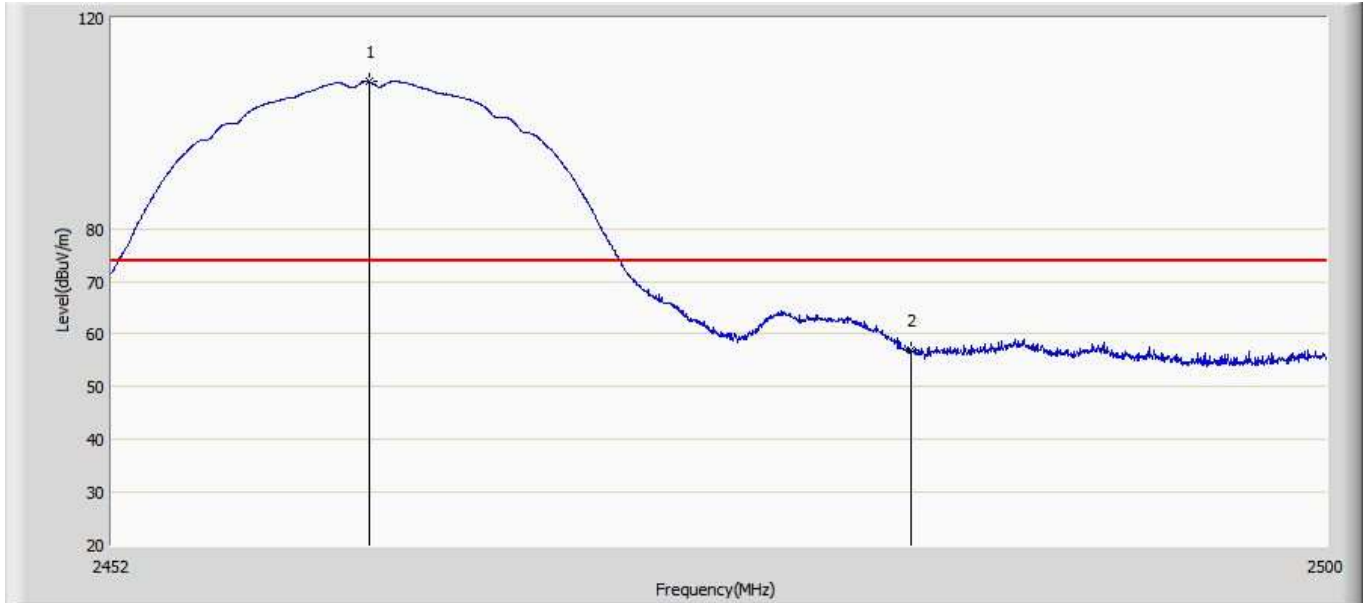
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2384.200	58.196	29.146	-15.804	74.000	29.050	PK
2		2390.000	53.668	24.620	-20.332	74.000	29.048	PK
3	*	2410.744	105.909	77.043	N/A	N/A	28.866	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 14:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11B	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.720	96.643	67.362	N/A	N/A	29.281	AV
2		2483.500	46.782	16.298	-7.218	54.000	30.484	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 14:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11B	



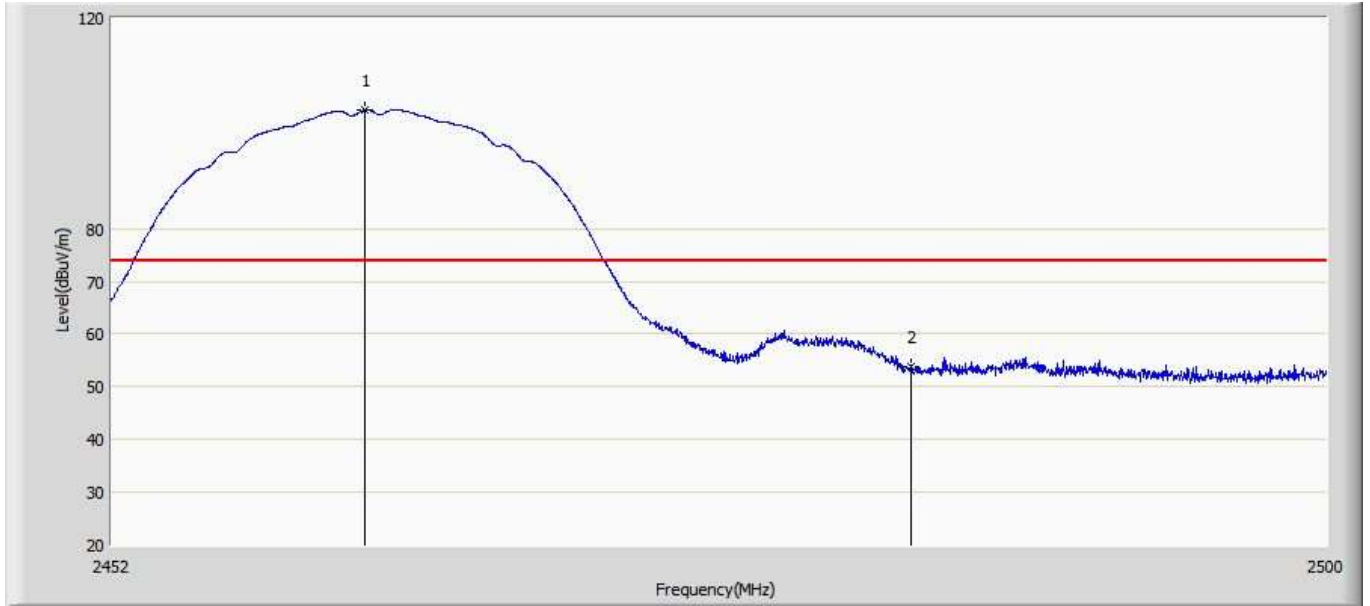
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.104	107.825	78.772	N/A	N/A	29.053	PK
2		2483.500	56.871	26.387	-17.129	74.000	30.484	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 14:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11B	



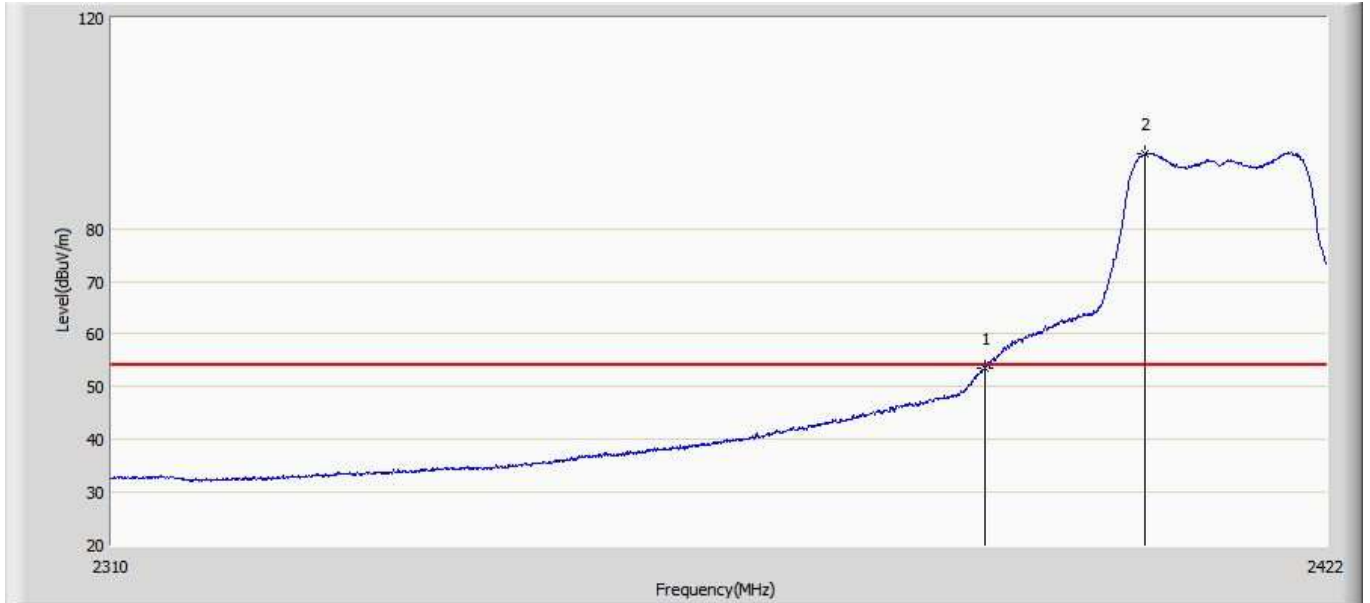
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.776	95.357	66.245	N/A	N/A	29.112	AV
2		2483.500	41.870	11.386	-12.130	54.000	30.484	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 14:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11B	



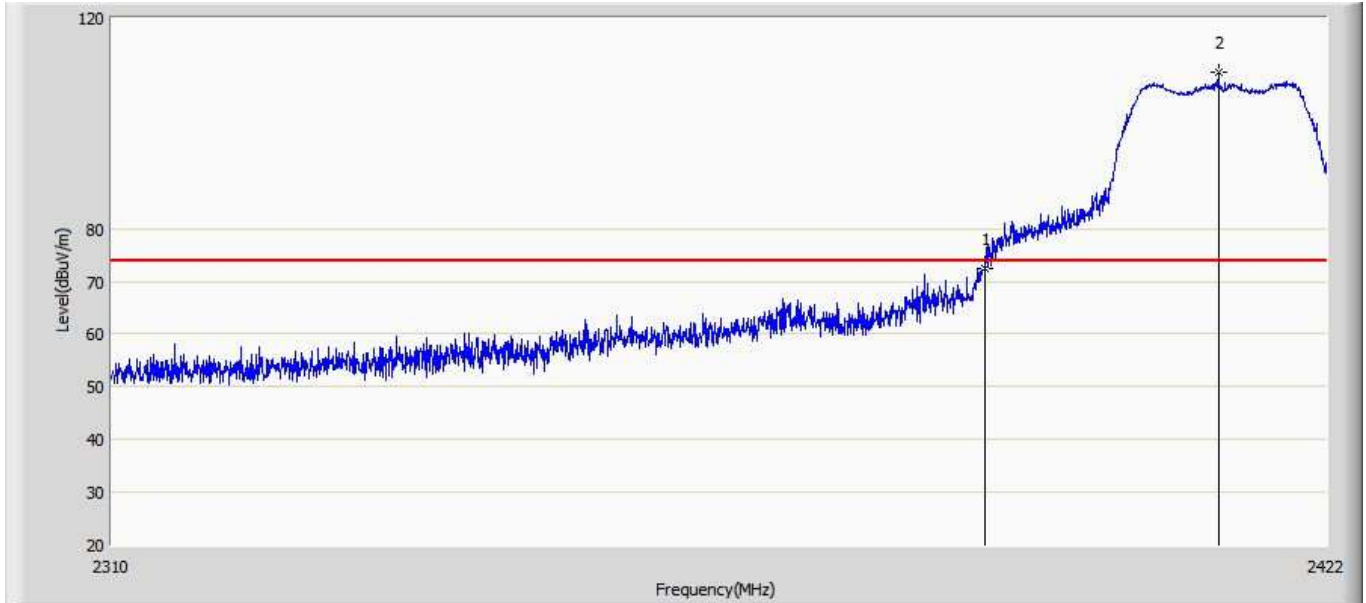
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.912	102.470	73.427	N/A	N/A	29.043	PK
2		2483.500	53.858	23.374	-20.142	74.000	30.484	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 14:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11G	



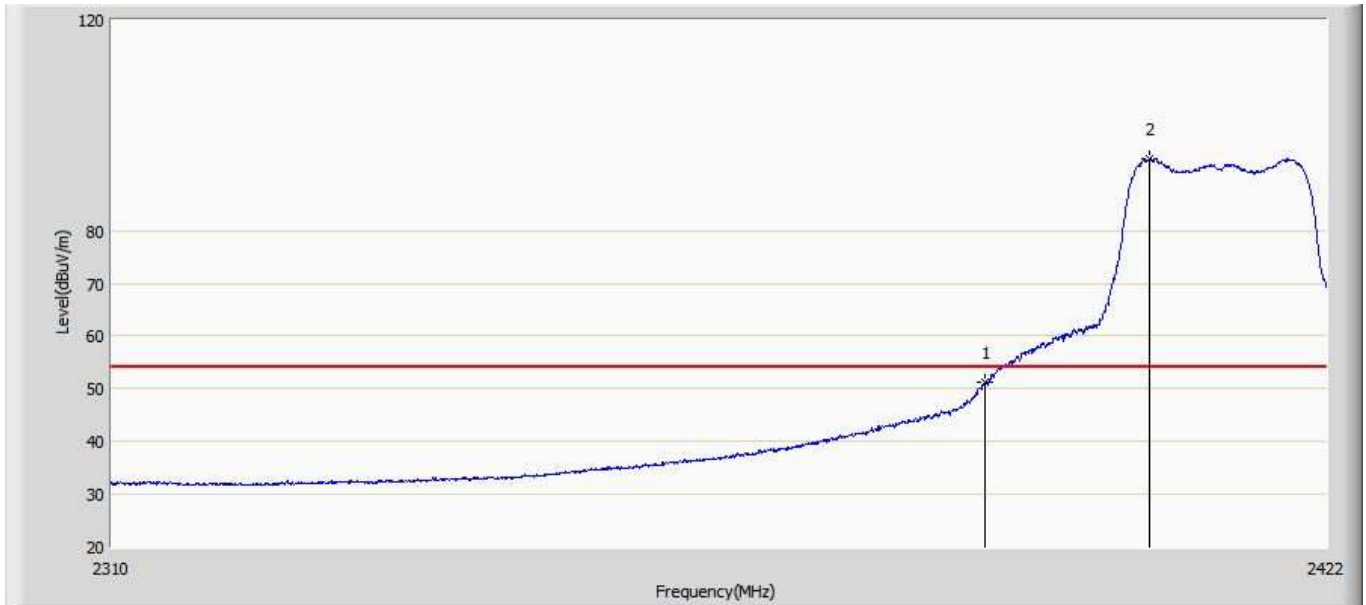
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.498	24.450	-0.502	54.000	29.048	AV
2	*	2404.976	94.155	65.227	N/A	N/A	28.928	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 15:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHz by 802.11G	



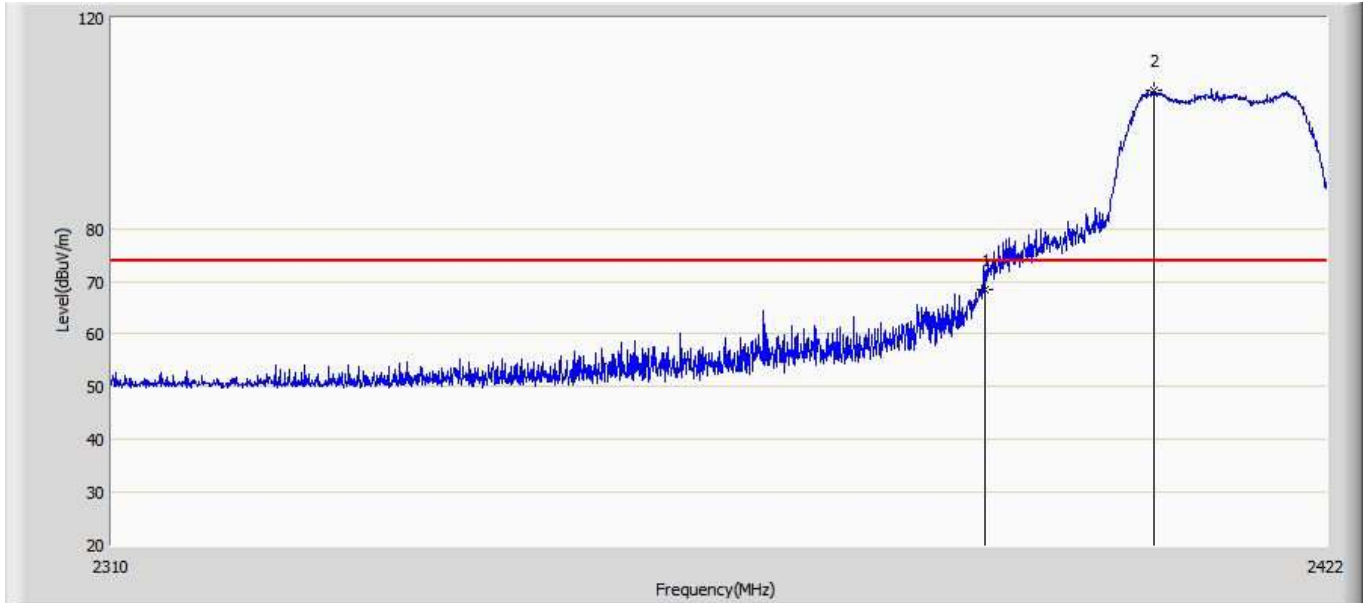
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	72.444	43.396	-1.556	74.000	29.048	PK
2	*	2411.864	109.576	80.708	N/A	N/A	28.868	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 15:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHz by 802.11G	



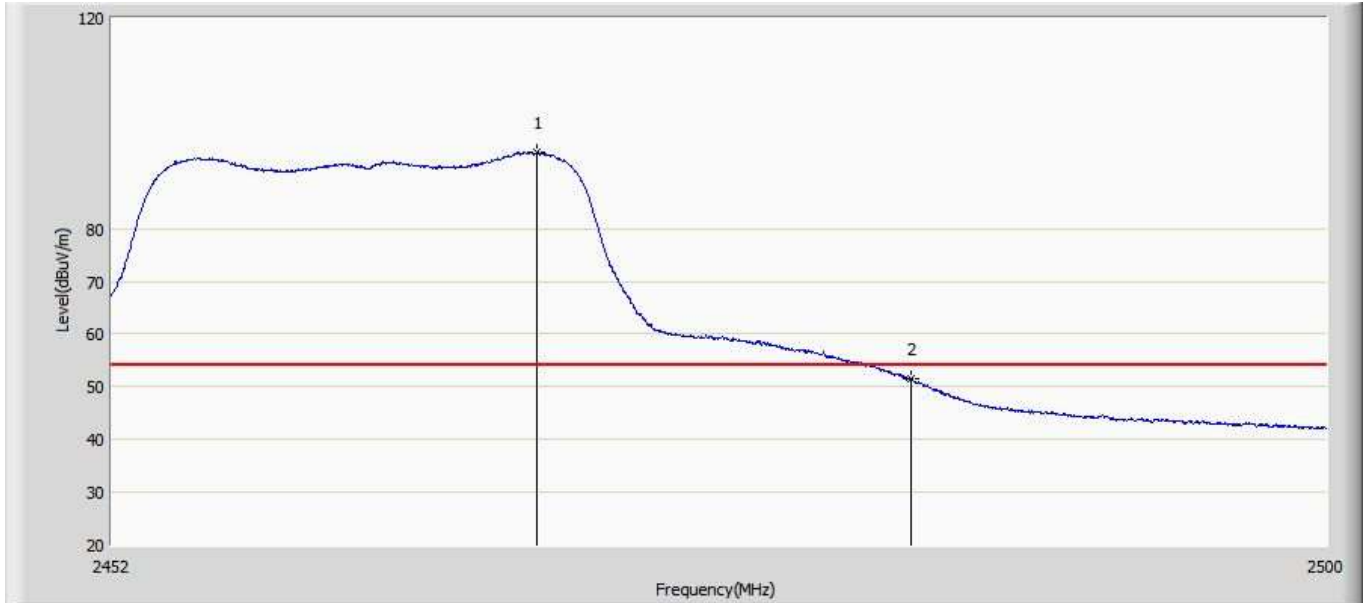
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.156	22.108	-2.844	54.000	29.048	AV
2	*	2405.368	93.507	64.583	N/A	N/A	28.924	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 15:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHz by 802.11G	



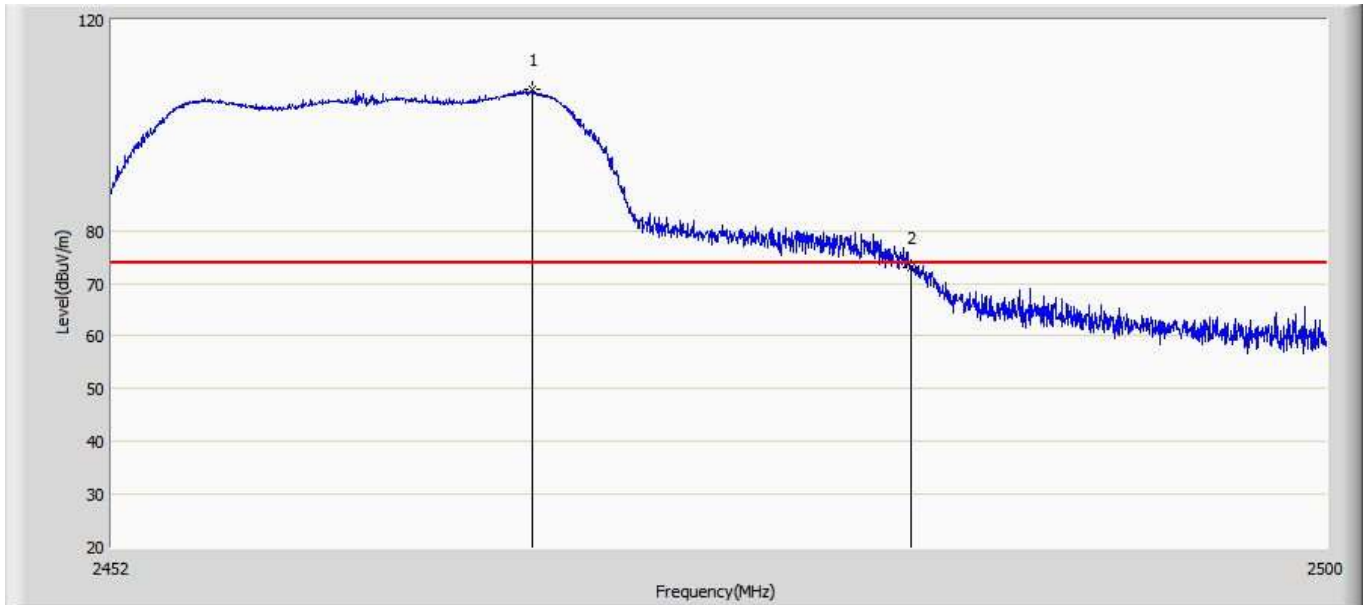
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	68.345	39.297	-5.655	74.000	29.048	PK
2	*	2405.816	106.281	77.362	N/A	N/A	28.919	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 15:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 802.11G	



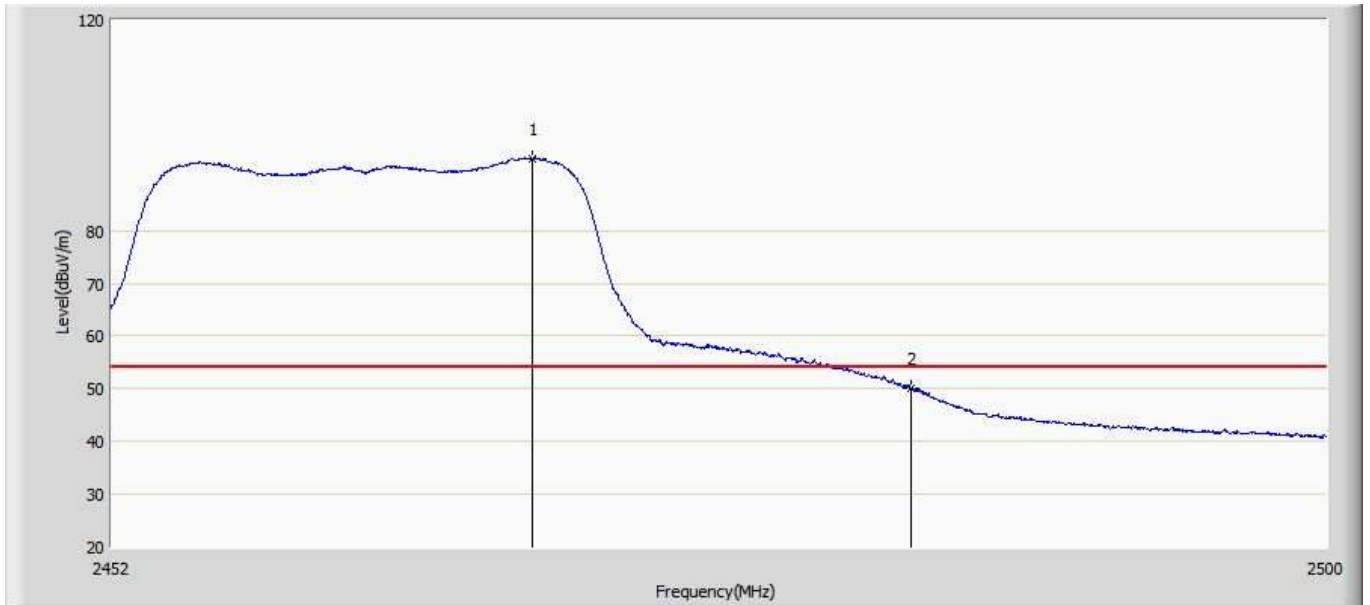
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.680	94.521	64.895	N/A	N/A	29.626	AV
2		2483.500	51.557	21.073	-2.443	54.000	30.484	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 15:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 802.11G	



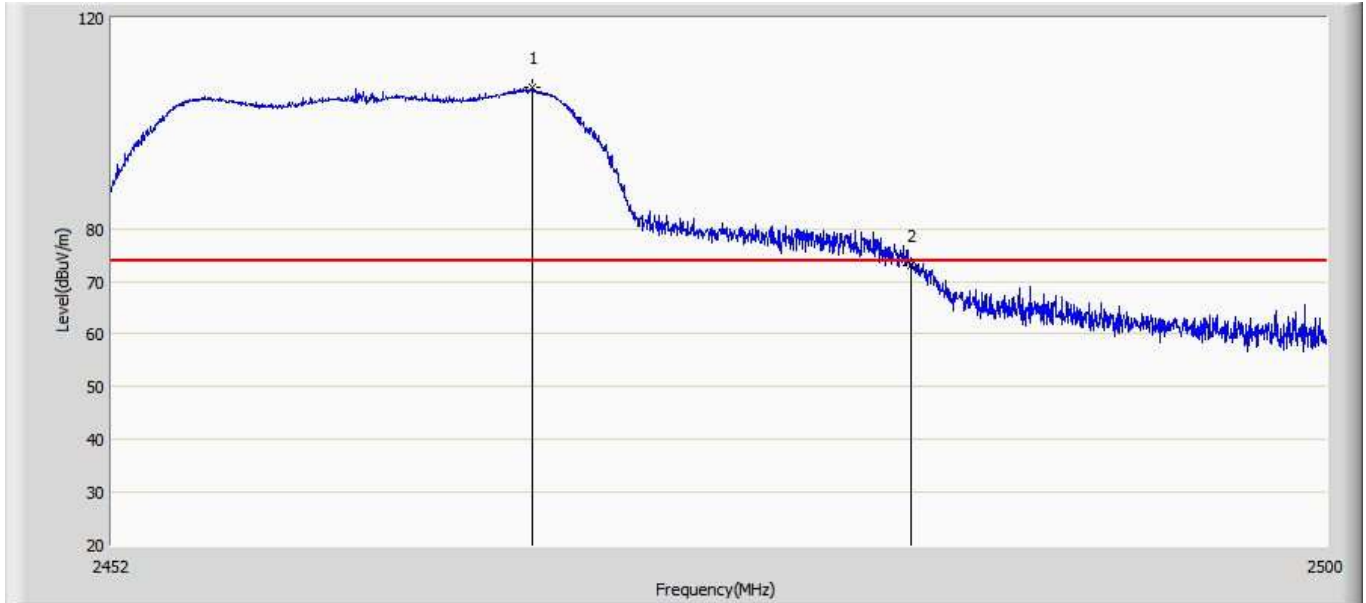
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.560	106.799	77.184	N/A	N/A	29.615	PK
2		2483.500	72.907	42.423	-1.093	74.000	30.484	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 15:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 802.11G	



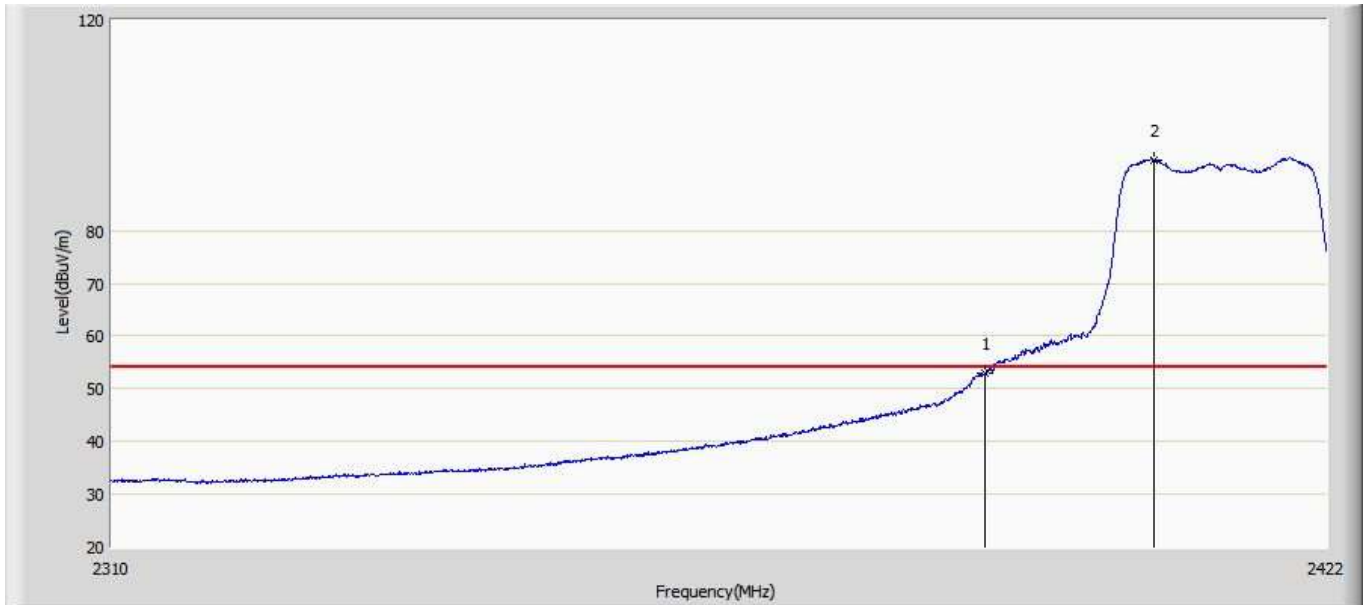
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.536	93.561	63.948	N/A	N/A	29.613	AV
2		2483.500	50.093	19.608	-3.907	54.000	30.484	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 15:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 802.11G	



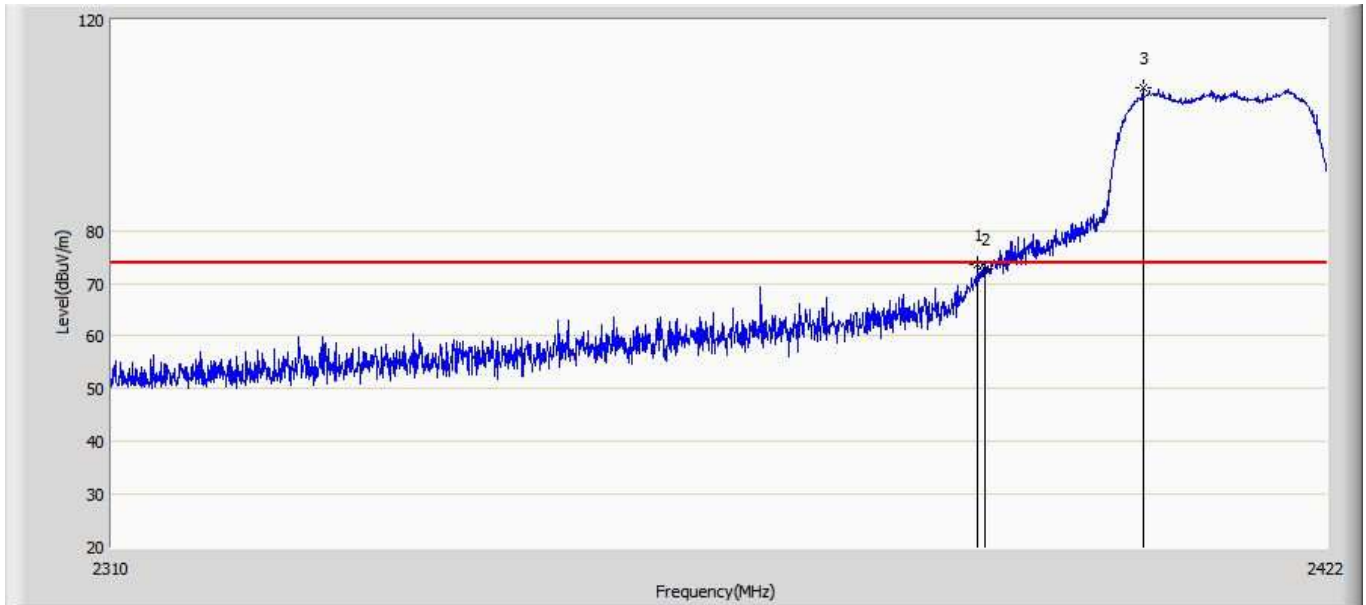
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.624	106.627	77.586	N/A	N/A	29.041	PK
2		2483.500	72.478	41.994	-1.522	74.000	30.484	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 16:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 802.11N20	



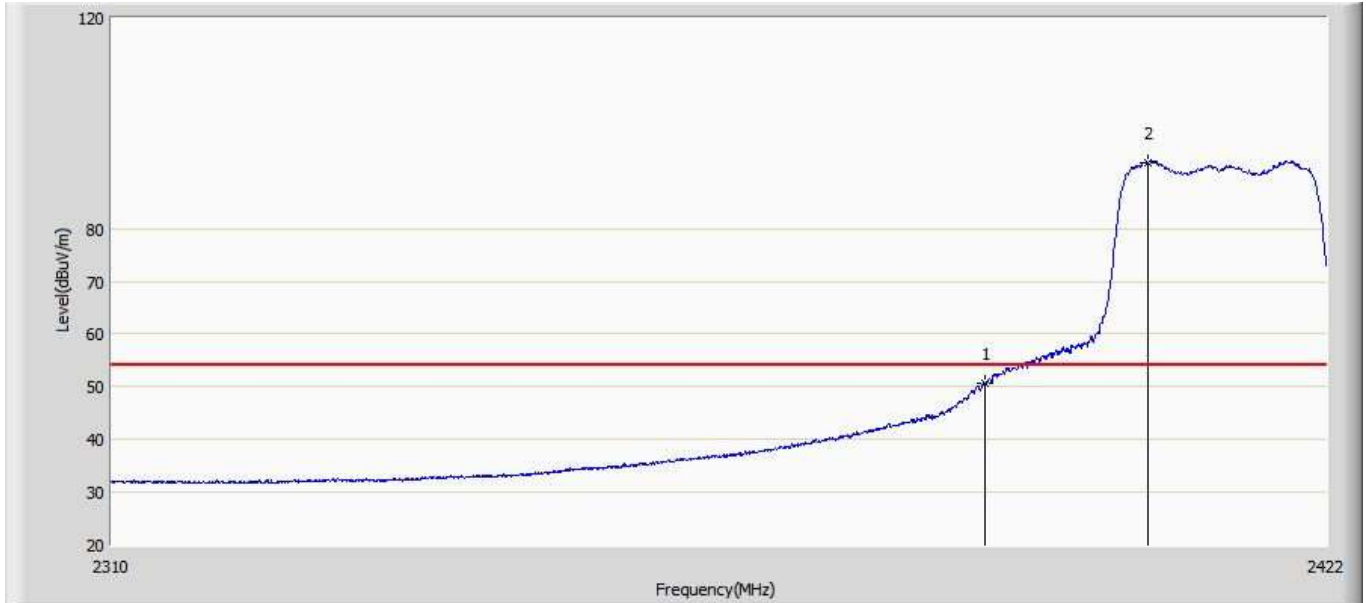
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.903	23.855	-1.097	54.000	29.048	AV
2	*	2405.872	93.468	64.549	N/A	N/A	28.919	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 16:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 802.11N20	



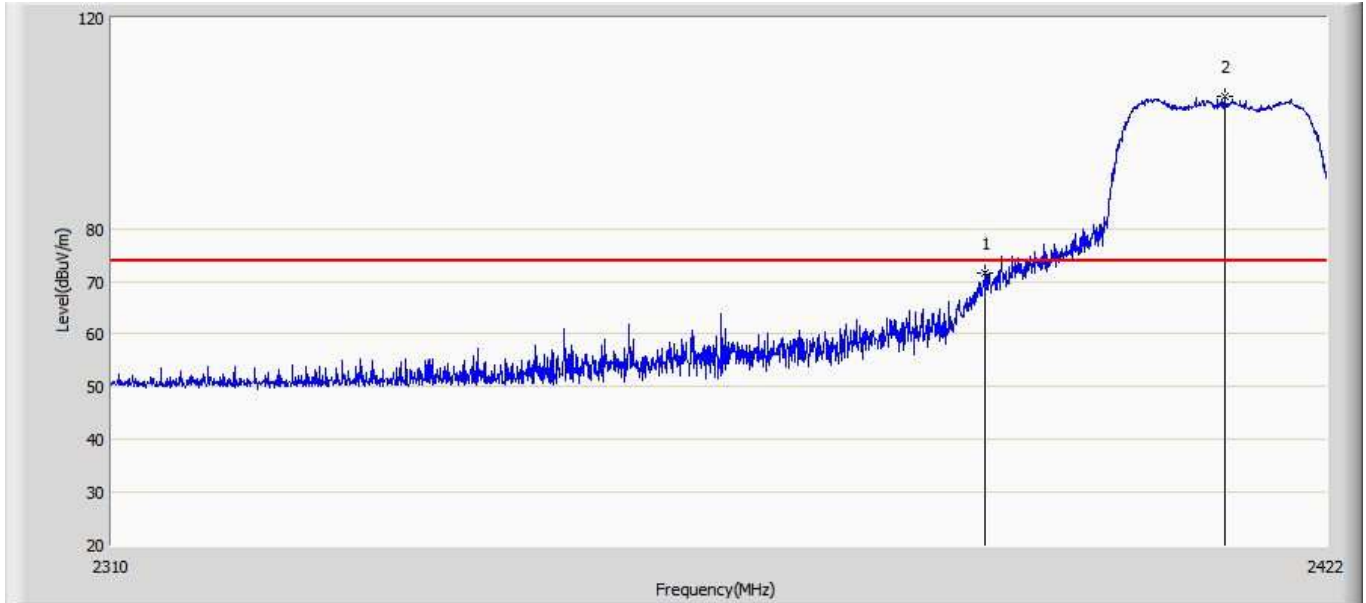
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2389.352	73.693	44.644	-0.307	74.000	29.049	PK
2		2390.000	72.801	43.753	-1.199	74.000	29.048	PK
3	*	2404.808	107.204	78.274	N/A	N/A	28.930	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 16:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 802.11N20	



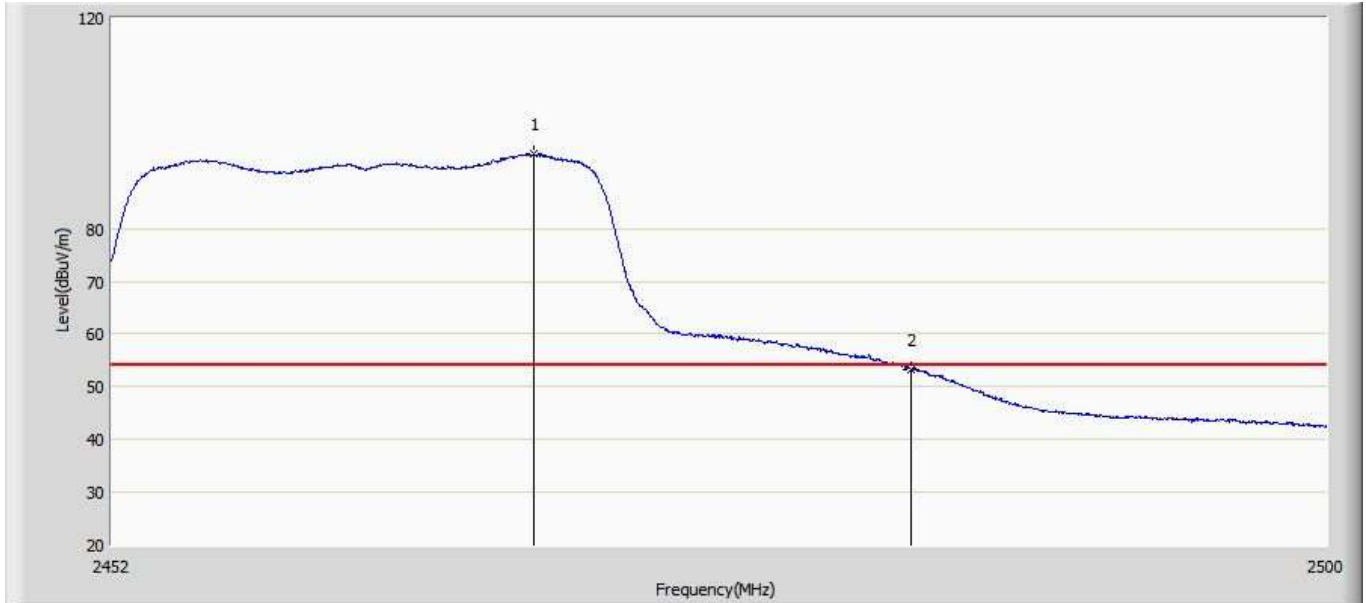
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.616	21.568	-3.384	54.000	29.048	AV
2	*	2405.312	92.612	63.687	N/A	N/A	28.925	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 16:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 802.11N20	



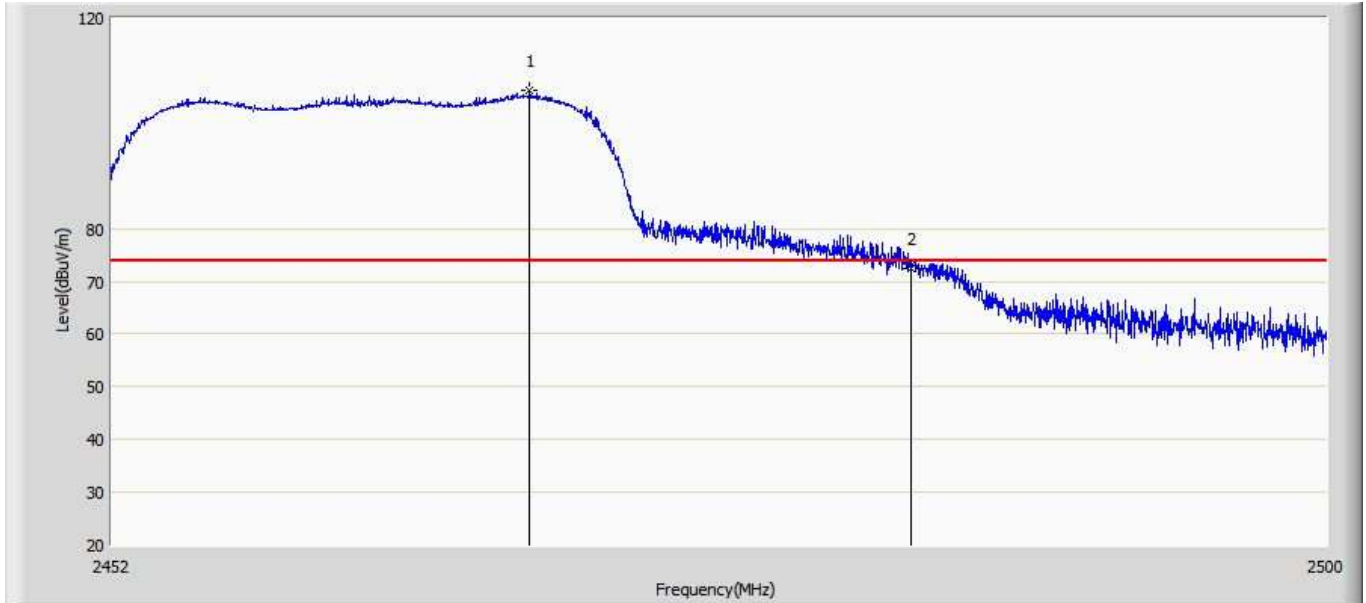
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	71.534	42.486	-2.466	74.000	29.048	PK
2	*	2412.424	105.209	76.338	N/A	N/A	28.871	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 16:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 802.11N20	



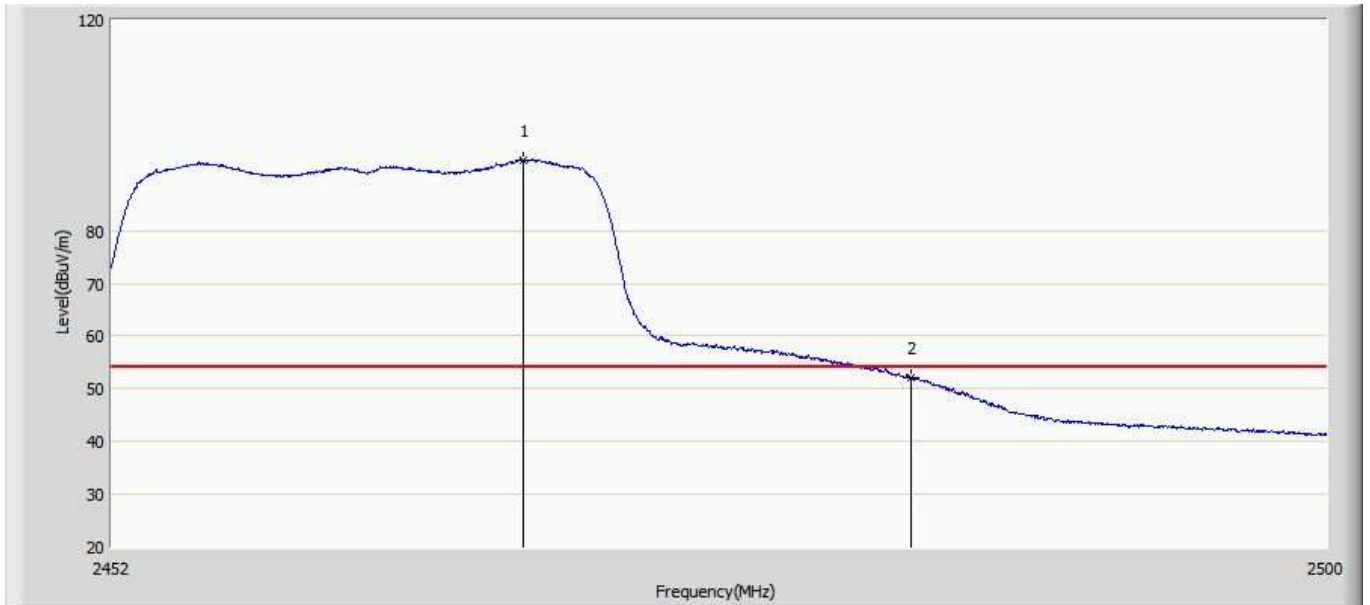
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.584	94.083	64.465	N/A	N/A	29.618	AV
2		2483.500	53.337	22.852	-0.663	54.000	30.484	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 16:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 802.11N20	



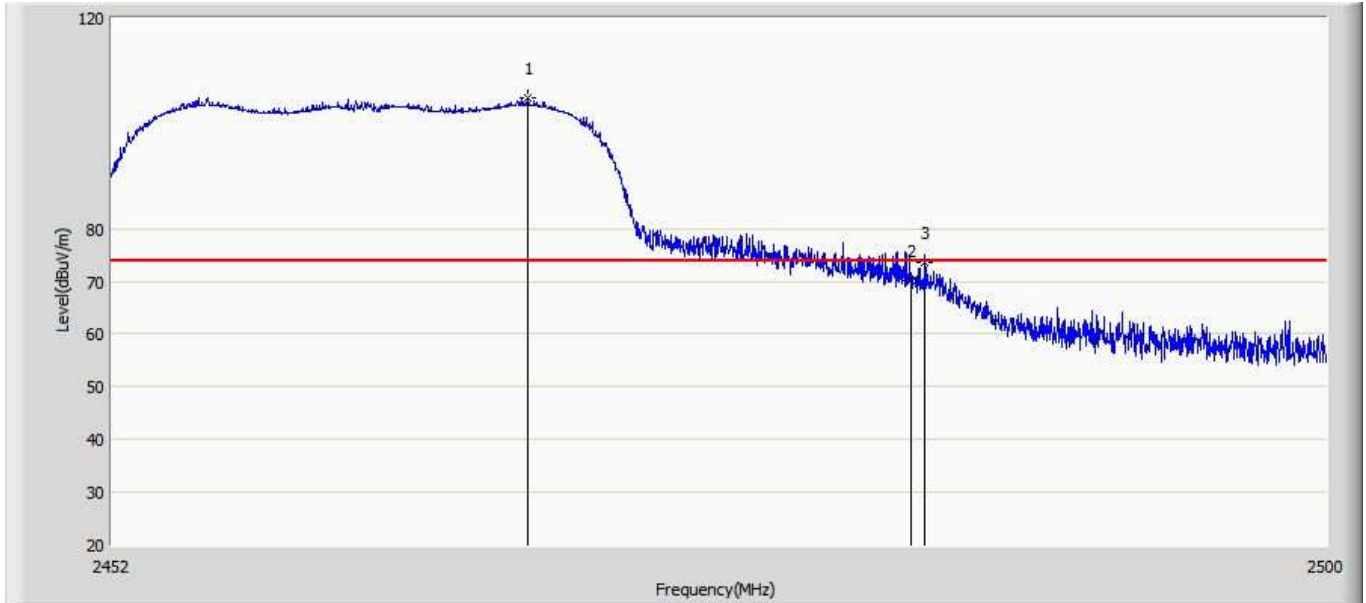
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.440	106.296	76.691	N/A	N/A	29.605	PK
2		2483.500	72.505	42.020	-1.495	74.000	30.484	PK

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 16:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 802.11N20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.200	93.483	63.899	N/A	N/A	29.584	AV
2		2483.500	52.020	21.536	-1.980	54.000	30.484	AV

Engineer:Slark	
Site:AC5	Time: 2017/08/01 - 16:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 900	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 802.11N20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.368	104.682	75.083	N/A	N/A	29.599	PK
2		2483.500	70.018	39.534	-3.982	74.000	30.484	PK
3		2484.040	73.588	43.108	-0.412	74.000	30.480	PK

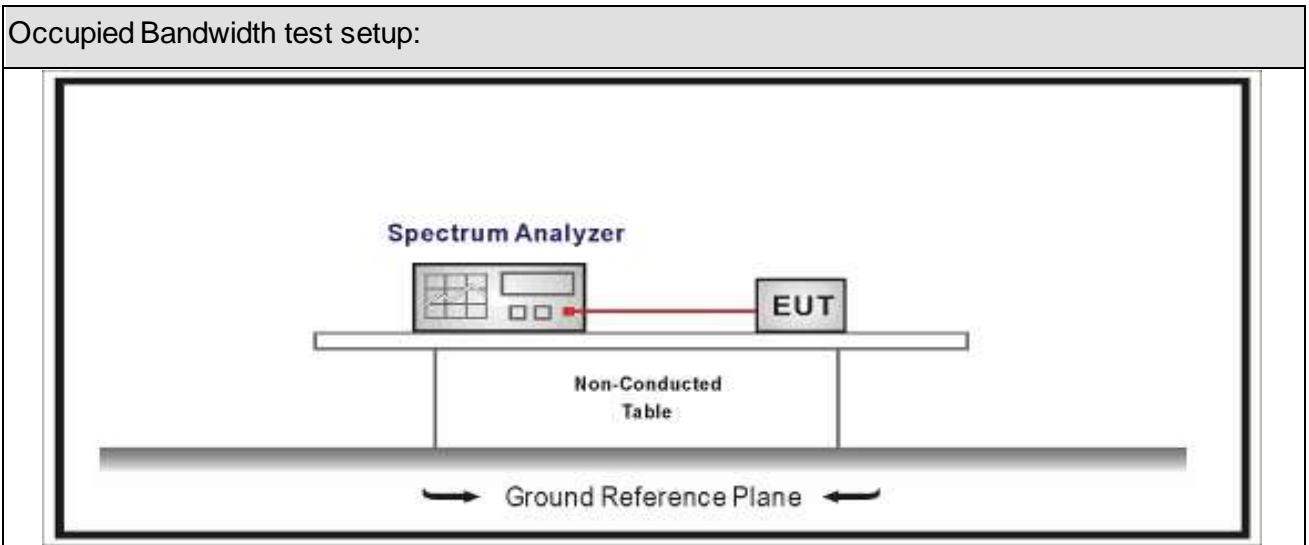
7. Occupied Bandwidth

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 equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



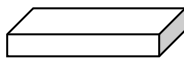
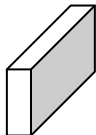
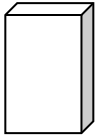

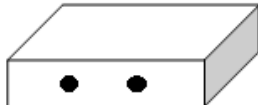
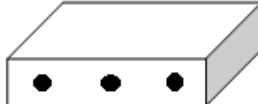
7.3. Limit

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	
<input checked="" type="checkbox"/>	ANSI C63.10	11.8	DTS bandwidth	
	<input type="checkbox"/> ANSI C63.10	11.8.1	Option 1	
	<input checked="" type="checkbox"/> ANSI C63.10	11.8.2	Option 2	

7.5. EUT test definition

Item	Occupied Bandwidth			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

7.6. Test Result

Product Name	: GEYE 900	Power	: AC 120V/60Hz
Test Mode	: Mode1~3	Test Site	: TR8
Test Date	: 2017.08.31		

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
			Ant1	Ant1		
1	01	2412	13.965	9.072	>500	Pass
1	06	2437	13.940	9.065	>500	Pass
1	11	2462	13.988	8.577	>500	Pass
2	01	2412	16.525	16.10	>500	Pass
2	06	2437	16.534	16.07	>500	Pass
2	11	2462	16.489	16.03	>500	Pass
3	01	2412	17.733	17.56	>500	Pass
3	06	2437	17.737	16.68	>500	Pass
3	11	2462	17.730	17.57	>500	Pass

Note : The worst case of Occupied Bandwidth as below:

Mode 1 CH11 (2462MHz) Ant1



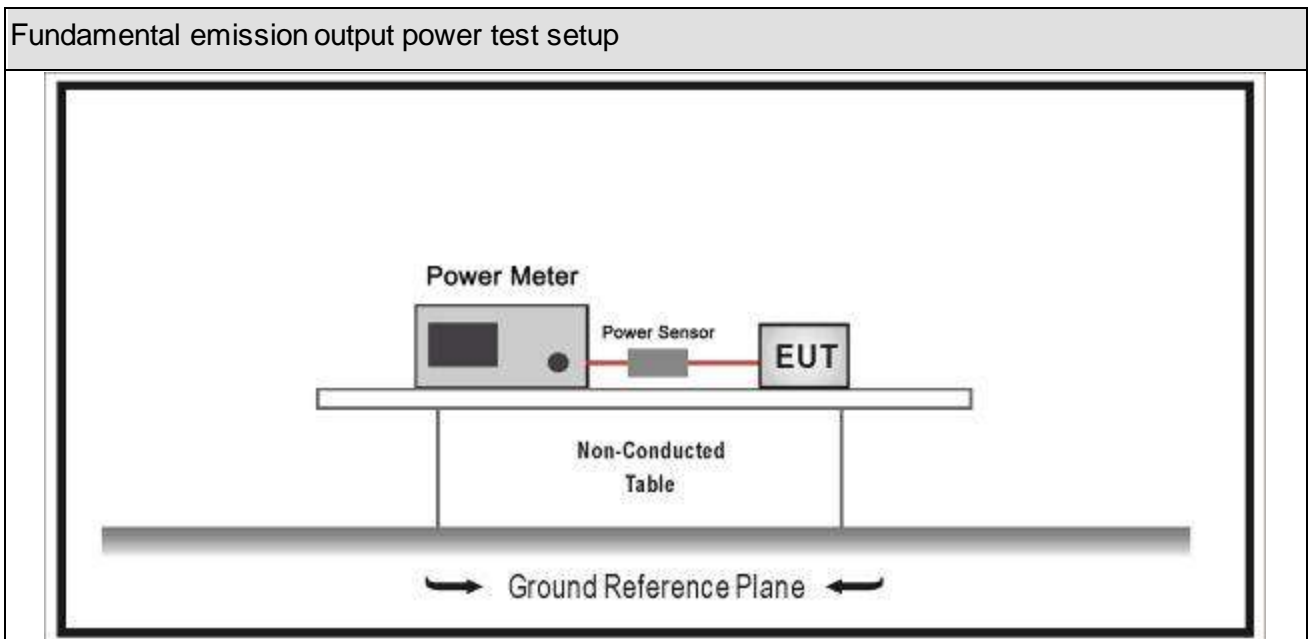
8. Fundamental emission output power

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	2017.01.03	2018.01.02
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2017.10.14	2018.10.13
Power Sensor	Anritsu	MA2411B	0846014	2017.10.14	2018.10.13
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2017.04.10	2018.04.09

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

8.2. Test Setup



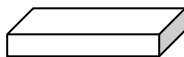
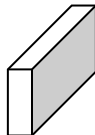
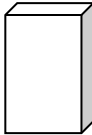
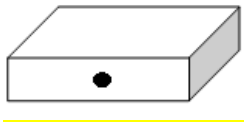
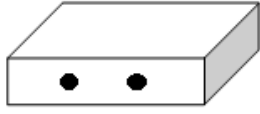
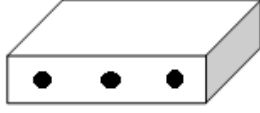
8.3. Limit

Fundamental emission output power Limit		
<input checked="" type="checkbox"/>	$G_{TX} < 6\text{dBi}$	$P_{out} \leq 30\text{dBm}$
<input type="checkbox"/>	$G_{TX} > 6\text{dBi}$	
<input checked="" type="checkbox"/>	Non-Fix point-point	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Fix point-point	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	emits multiple directional beams but does not do emit multiple directional beams simultaneously	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	operates simultaneously on multiple directional beams using the same or different frequency channels	$P_{out} \leq 30 - [(G_{TX} - 6)]/3 + 8\text{dB}$
<input type="checkbox"/>	single directional beam	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
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
<input checked="" type="checkbox"/>	ANSI C63.10		11.9	Fundamental emission output power
<input type="checkbox"/>	ANSI C63.10		11.9.1	Maximum peak conducted output power
	<input type="checkbox"/>	ANSI C63.10	11.9.1.1	RBW \geq DTS bandwidth
	<input type="checkbox"/>	ANSI C63.10	11.9.1.2	Integrated band power method
	<input type="checkbox"/>	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method
<input checked="" type="checkbox"/>	ANSI C63.10		11.9.2	Maximum conducted (average) output power
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2	Measurement using a spectrum analyzer (SA)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle \geq 98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle \geq 98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle \leq 98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle \leq 98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-3
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2.3	Measurement using a power meter (PM)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.3.1	Method AVGPM
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2.3.2	Method AVGPM-G

8.5. EUT test definition

Item	Fundamental emission output power			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

8.6. Test Result

Product Name	: GEYE 900	Power	: AC 120V/60Hz
Test Mode	: Mode1~3	Test Site	: TR8
Test Date	: 2017.08.31		

Mode	Channel	Test Frequency (MHz)	Average Power Output (dBm)	Antenna Gain (dBi)	Limit (dBm)	Result
1	01	2412	18.09	2.5	30	Pass
1	06	2437	19.47	2.5	30	Pass
1	11	2462	19.93	2.5	30	Pass
2	01	2412	22.85	2.5	30	Pass
2	06	2437	22.88	2.5	30	Pass
2	11	2462	22.52	2.5	30	Pass
3	01	2412	22.13	2.5	30	Pass
3	06	2437	22.11	2.5	30	Pass
3	11	2462	22.17	2.5	30	Pass

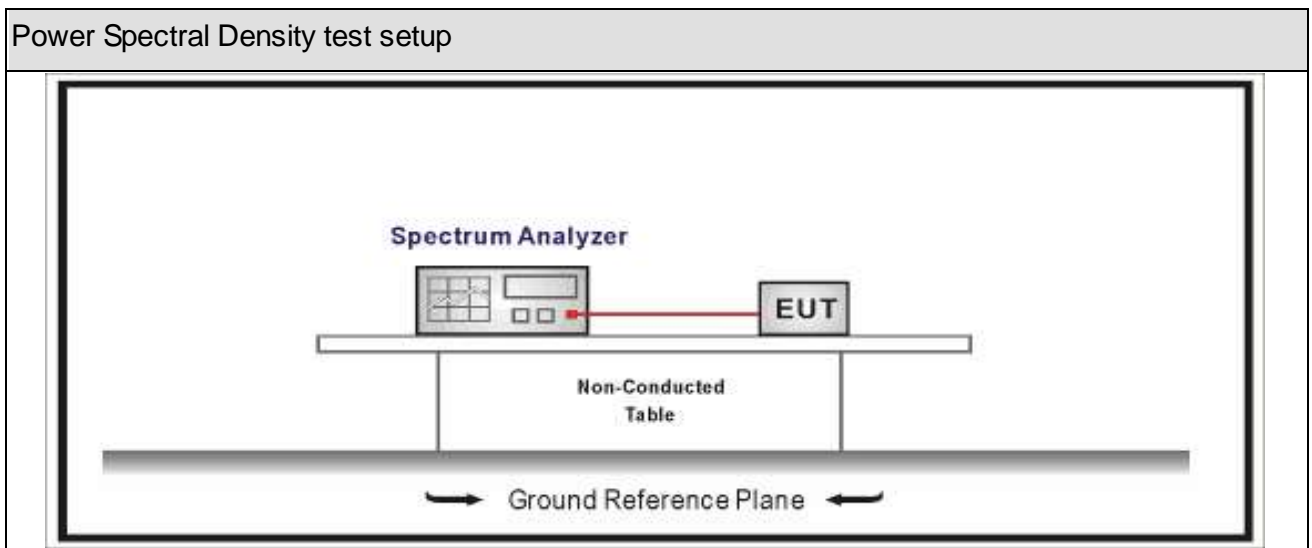
9. Power Spectral Density

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 equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup



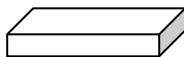
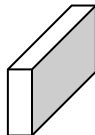
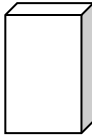

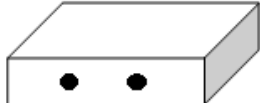

9.3. Limit

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
<input checked="" type="checkbox"/>	ANSI C63.10		11.10	Maximum power spectral density level in the fundamental emission
<input checked="" type="checkbox"/>	ANSI C63.10		11.10.2	Method PKPSD (peak PSD)
<input type="checkbox"/>	ANSI C63.10		11.10.3	Method AVGPSD-1(Duty cycle \geq 98%)
<input type="checkbox"/>	ANSI C63.10		11.10.4	Method AVGPSD-1A(Duty cycle \geq 98%)
<input type="checkbox"/>	ANSI C63.10		11.10.5	Method AVGPSD-2(Duty cycle $<$ 98%)
<input type="checkbox"/>	ANSI C63.10		11.10.6	Method AVGPSD-2A(Duty cycle $<$ 98%)
<input type="checkbox"/>	ANSI C63.10		11.10.7	Method AVGPSD-3
<input type="checkbox"/>	ANSI C63.10		11.10.8	Method AVGPSD-3A

9.5. EUT test definition

Item	Power Spectral Density Test Method			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

9.6. Test Result

Product Name	: GEYE 900	Power	: AC 120V/60Hz
Test Mode	: Mode1~3	Test Site	: TR8
Test Date	: 2017.08.31		

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
			Ant1			
1	01	2412	-7.361	-7.361	8.0	Pass
1	06	2437	-7.162	-7.162	8.0	Pass
1	11	2462	-6.200	-6.200	8.0	Pass
2	01	2412	-9.716	-9.716	8.0	Pass
2	06	2437	-11.281	-11.281	8.0	Pass
2	11	2462	-11.033	-11.033	8.0	Pass
3	01	2412	-11.491	-11.491	8.0	Pass
3	06	2437	-13.062	-13.062	8.0	Pass
3	11	2462	-11.875	-11.875	8.0	Pass

Note : The worst case of Occupied Bandwidth as below:

Mode 1 CH11 (2462MHz) Ant1



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

The EUT use permanently attached antennas and comply with FCC 15.203.

————— The End —————