

TEST REPORT

Product Name: Doodle Smart night light
FCC ID: 2A2P4-HR-D1
Trademark: N/A
Model Number: HR-D1
Prepared For: Yunfu Hongrui Intelligent Equipment Co., Ltd.
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Sample Received Date: Oct. 9, 2021
Sample tested Date: Oct. 9, 2021 to Oct. 25, 2021
Issue Date: Oct. 25, 2021
Report No.: CTB211026014RFX
Test Standards: FCC Part15.247
ANSI C63.10:2013
Test Results: PASS
Remark: This is WIFI-2.4GHz band radio test report.

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Bin Mei / Director

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB211022009RFX	Oct. 25, 2021	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Radiated Spurious emissions	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Band edge and RF Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)/15.205(a)	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013/ KDB 558074 D01v04	PASS
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
RF Exposure Evaluation	47 CFR Part 15 Subpart C Section 15.247 (i)/1.1310/2.1093	KDB447498D01v06	PASS

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Occupancy bandwidth	$U=\pm 54.3\text{Hz}$
Conducted output power Above 1G	$U=\pm 1.0\text{dB}$
Conducted output power below 1G	$U=\pm 0.9\text{dB}$
Power Spectral Density , Conduction	$U=\pm 1.0\text{dB}$
Conduction spurious emissions	$U=\pm 2.8\text{dB}$
Out of band emission	$U=\pm 54\text{Hz}$
3m camber Radiated spurious emission(30MHz-1GHz)	$U=\pm 4.3\text{dB}$
3m chamber Radiated spurious emission(1GHz-18GHz)	$U=\pm 4.5\text{dB}$
humidity uncertainty	$U=\pm 5.3\%$
Temperature uncertainty	$U=\pm 0.59^{\circ}\text{C}$
Supply voltages	$U=\pm 3\%$
Time	$U=\pm 5\%$

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	HR-D1
Model Description:	N/A
Wi-Fi Specification:	IEEE 802.11b/g/n
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	WiFi: IEEE 802.11b/g/n 20: 2412-2462MHz/ 11 channel
Max. RF output power:	WiFi (2.4G) :12.822dBm
Type of Modulation:	WiFi: DSSS, OFDM
Antenna installation:	WiFi: PCB Antenna
Antenna Gain:	WiFi (2.4G) : 1.0dBi
Ratings:	INPUT:100~240V~50/60Hz, 0.5A OUTPUT:5V $\Rightarrow$ 2A

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	AC adapter	DONG GUAN To ye electronics technology co.,ltd	H-05-10	N/A	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462		

4.5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode	Low channel	Middle channel	High channel
Transmitting(802.11b/g/n20)	2412MHz	2437MHz	2462MHz
Transmitting(802.11n40)	2422MHz	2437MHz	2452MHz

NOTE: Duty cycle > 98%.

4.6 Test Environment

Humidity(%)	55
Atmospheric Pressure(kPa)	101.1
Normal Voltage(AC)	120
Normal Temperature(°C)	25
Low Temperature(°C)	0
High Temperature(°C)	50

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	2022.08.05
2	Power Sensor	Agilent	U2021XA	MY56120032	2022.08.05
3	Power Sensor	Agilent	U2021XA	MY56120034	2022.08.05
4	Communication test set	R&S	CMW500	108058	2022.08.05
5	Spectrum Analyzer	R&S	FSP40	100550	2021.10.30
6	Signal Generator	Agilent	N5181A	MY49060920	2022.08.16
7	Signal Generator	Agilent	N5182A	MY47420195	2022.08.05
8	Communication test set	Agilent	E5515C	MY50102567	2022.08.16
9	band rejection filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	2022.08.05
10	band rejection filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	2022.08.05
11	band rejection filter	Xingbo	XBLBQ-DZA120	190821-1-1	2022.08.05
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	2022.08.05
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	2022.08.05
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	2022.08.05
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	2022.08.05
16	966 chamber	C.R.T.	966 Room	966	2024.08.11
17	Receiver	R&S	ESPI	100362	2022.08.05
18	Amplifier	HP	8447E	2945A02747	2022.08.05
19	Amplifier	Agilent	8449B	3008A01838	2022.08.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	869	2022.08.07

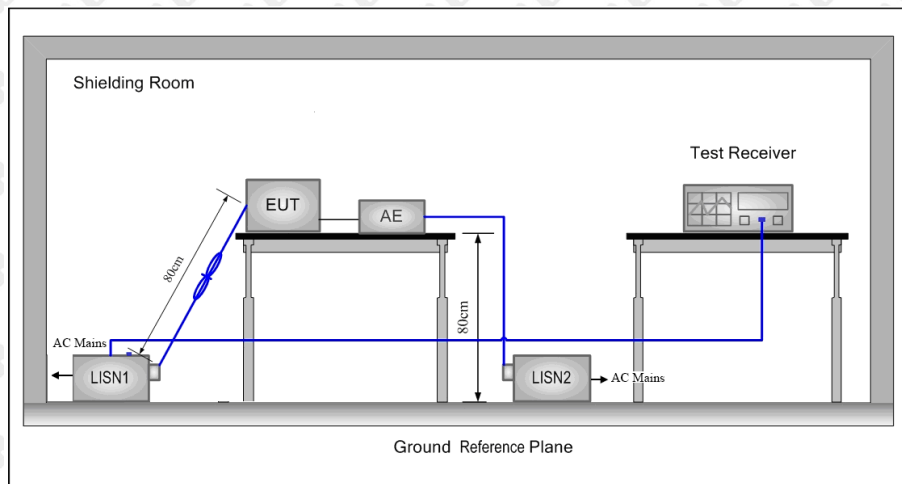
21	Horn Antenna	Schwarzbeck	BBHA9120D	1911	2022.08.08
22	Software	Fala	EZ-EMC	FA-03A2 RE	2022.08.05
23	3-Loop Antenna	Daze	ZN30401	17014	2022.08.05
24	loop antenna	ZHINAN	ZN30900A	/	2021.10.30
25	Horn antenna	A/H/System	SAS-574	588	2021.10.30
26	Amplifier	AEROFLEX	/	S/N/ 097	2021.10.30

Continuous disturbance					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	AMN	ROHDE&SCHWARZ	ESH3-Z5	831551852	2022.08.05
2	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	2022.08.05
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428/003	2022.08.05
4	Coaxial cable	ZDECL	Z302S	18091904	2022.08.05
5	AAN	Schwarzbeck	NTFM8158	183	2022.08.05
6	Communication test set	Agilent	E5515C	MY50102567	2022.08.16
7	Communication test set	R&S	CMW500	108058	2022.08.05
8	EZ-EMC	Frad	EMC-con3A1.1	/	/

Radiated emission					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	1911	2022.08.08
2	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	869	2021.11.01
3	Amplifier	Agilent	8449B	3008A01838	2022.08.05
4	Amplifier	HP	8447E	2945A02747	2022.08.05
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI7	100362	2022.08.05
6	Coaxial cable	ETS	RFC-SNS-100-NMS-80 NI	/	2022.08.05
7	Coaxial cable	ETS	RFC-SNS-100-NMS-20 NI	/	2022.08.05
8	Coaxial cable	ETS	RFC-SNS-100-SMS-20 NI	/	2022.08.05
9	Coaxial cable	ETS	RFC-NNS-100-NMS-30 0 NI	/	2022.08.05
10	Communication test set	Agilent	E5515C	MY50102567	2022.08.16
11	Communication test set	R&S	CMW500	108058	2022.08.05
12	EZ-EMC	Frad	EMC-con3A1.1	/	/

6. AC POWER LINE CONDUCTED EMISSION

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

6.3 Test procedure

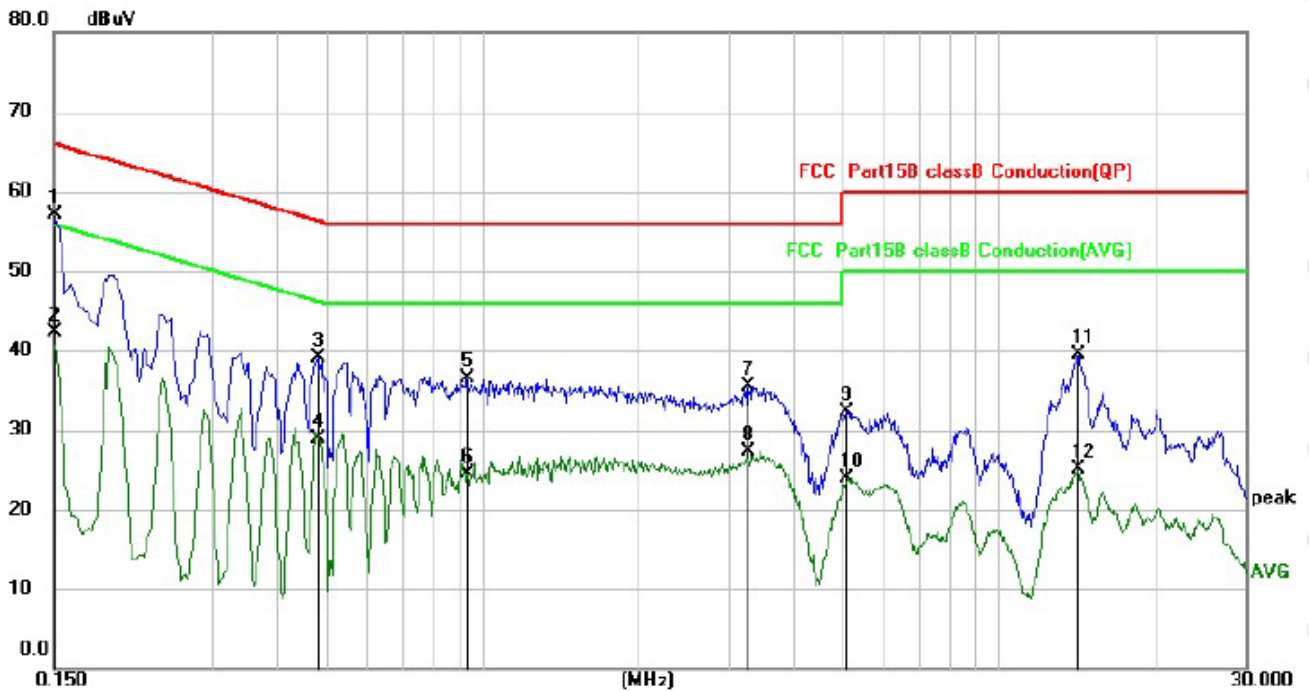
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was

between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2.

- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

6.4 Test Result

Test Specification: Line
AC 120V 60Hz

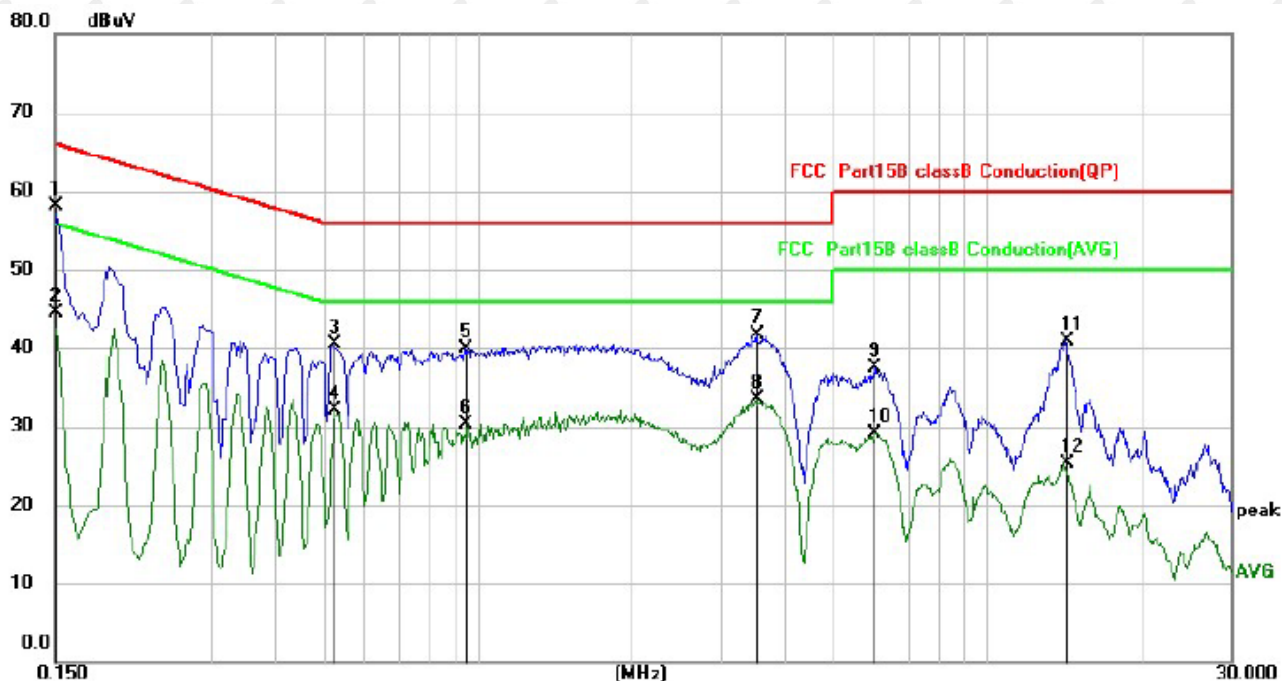


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1500	47.21	9.96	57.17	66.00	-8.83	QP
2		0.1500	32.39	9.96	42.35	56.00	-13.65	AVG
3		0.4820	29.06	9.96	39.02	56.30	-17.28	QP
4		0.4820	18.87	9.96	28.83	46.30	-17.47	AVG
5		0.9380	26.51	9.96	36.47	56.00	-19.53	QP
6		0.9380	14.46	9.96	24.42	46.00	-21.58	AVG
7		3.2740	25.40	10.08	35.48	56.00	-20.52	QP
8		3.2740	17.26	10.08	27.34	46.00	-18.66	AVG
9		5.0700	22.04	10.18	32.22	60.00	-27.78	QP
10		5.0700	13.71	10.18	23.89	50.00	-26.11	AVG
11		14.1980	28.55	10.94	39.49	60.00	-20.51	QP
12		14.1980	14.13	10.94	25.07	50.00	-24.93	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

Test Specification: Neutral
AC 120V 60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1	*	0.1500	48.05	9.96	58.01	66.00	-7.99	QP
2		0.1500	34.60	9.96	44.56	56.00	-11.44	AVG
3		0.5220	30.58	9.96	40.54	56.00	-15.46	QP
4		0.5220	22.09	9.96	32.05	46.00	-13.95	AVG
5		0.9460	29.89	9.96	39.85	56.00	-16.15	QP
6		0.9460	20.28	9.96	30.24	46.00	-15.76	AVG
7		3.5340	31.60	10.09	41.69	56.00	-14.31	QP
8		3.5340	23.37	10.09	33.46	46.00	-12.54	AVG
9		5.9940	27.26	10.30	37.56	60.00	-22.44	QP
10		5.9940	18.89	10.30	29.19	50.00	-20.81	AVG
11		14.2420	29.87	10.94	40.81	60.00	-19.19	QP
12		14.2420	14.40	10.94	25.34	50.00	-24.66	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

7. RADIATED SPURIOUS EMISSION

7.1 Block Diagram Of Test Setup

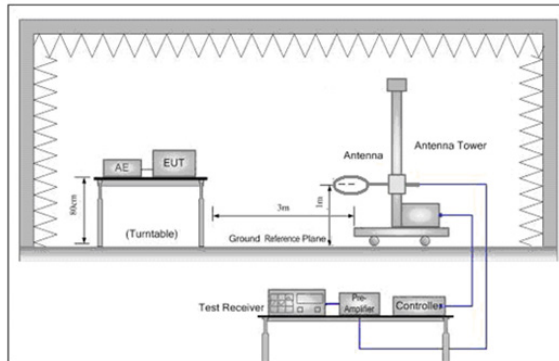


Figure 1. Below 30MHz

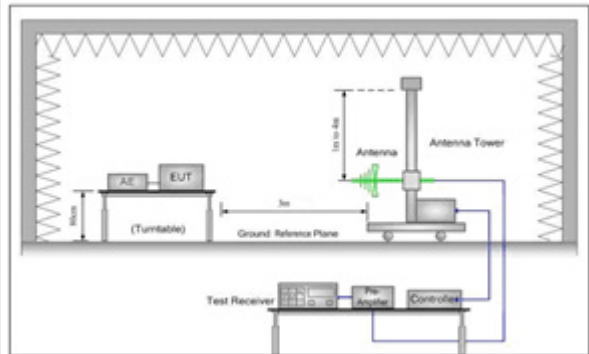


Figure 2. 30MHz to 1GHz

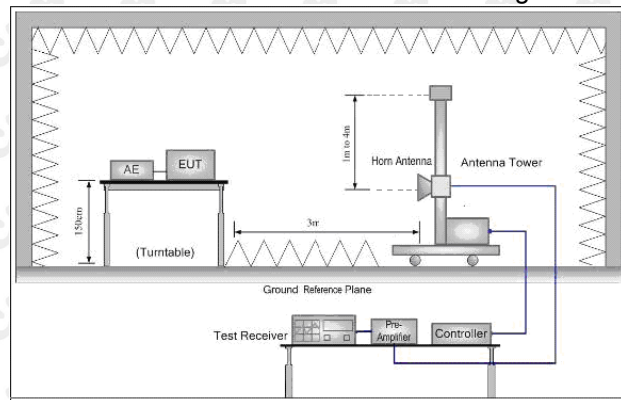


Figure 3. Above 1GHz

7.2 Limit

Spurious Emissions:

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F (kHz)	-	-	300
0.490MHz-1.705MHz	24000/F (kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

7.3 Test procedure

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- Repeat above procedures until all frequencies measured was complete.

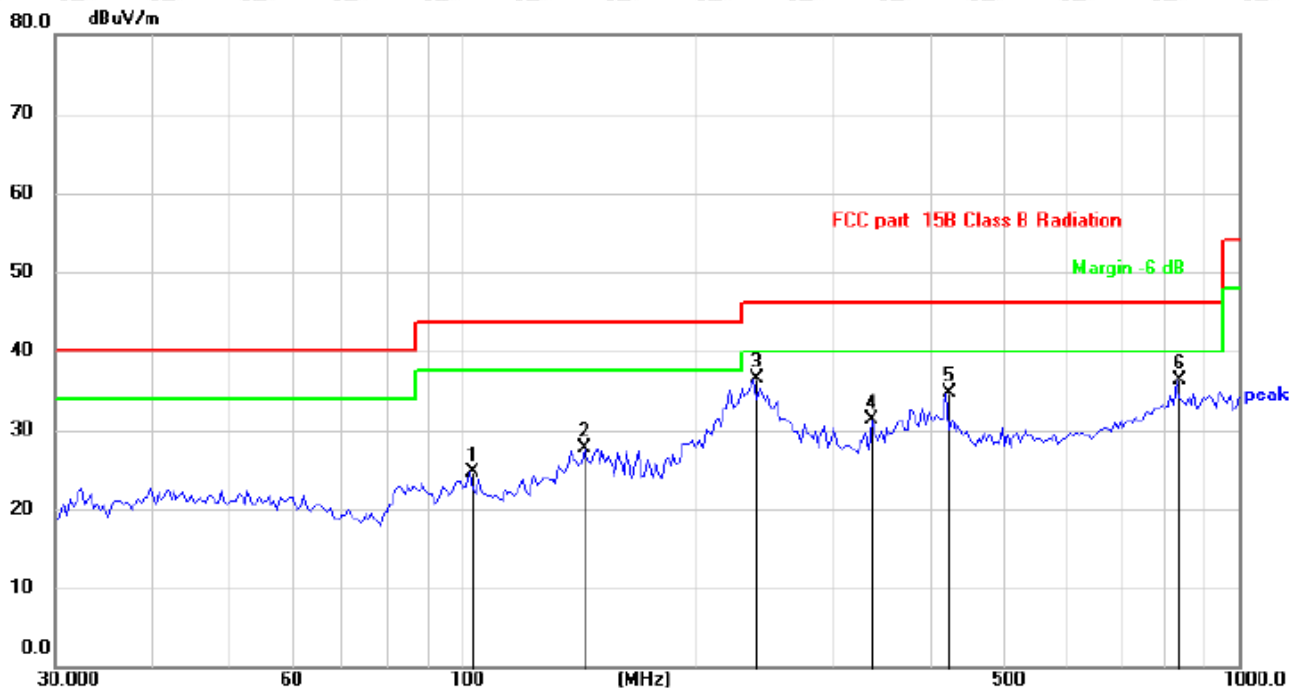
Receiver set:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

7.4 Test Result

Below 1GHz Test Results:

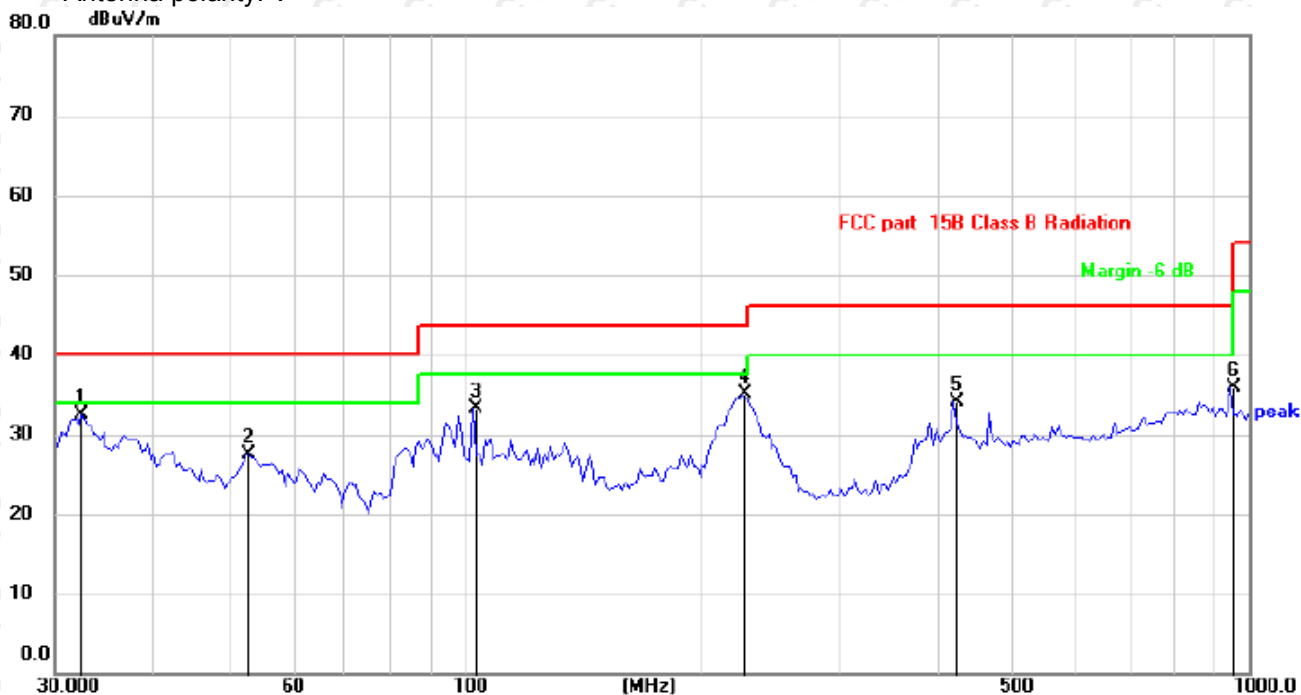
Antenna polarity: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		102.3597	33.12	-8.49	24.63	43.50	-18.87	QP
2		144.0819	33.24	-5.46	27.78	43.50	-15.72	QP
3	*	237.4760	42.35	-5.82	36.53	46.00	-9.47	QP
4		337.2155	35.17	-3.90	31.27	46.00	-14.73	QP
5		419.8436	35.88	-1.21	34.67	46.00	-11.33	QP
6		831.8574	30.12	6.09	36.21	46.00	-9.79	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit - Level

Antenna polarity: V



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	32.4628	39.56	-7.02	32.54	40.00	-7.46	QP
2		53.0382	33.28	-5.80	27.48	40.00	-12.52	QP
3		102.3597	41.80	-8.49	33.31	43.50	-10.19	QP
4		225.3080	41.44	-6.26	35.18	43.50	-8.32	QP
5		419.8436	35.31	-1.21	34.10	46.00	-11.90	QP
6		948.7610	30.04	5.91	35.95	46.00	-10.05	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit - Level

Above 1 GHz Test Results:

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	66.37	-3.64	62.73	74	-11.27	peak
4824	50.66	-3.64	47.02	54	-6.98	AVG
7236	57.56	-0.95	56.61	74	-17.39	peak
7236	44.07	-0.95	43.12	54	-10.88	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	64.53	-3.64	60.89	74	-13.11	peak
4824	48.96	-3.64	45.32	54	-8.68	AVG
7236	57.39	-0.95	56.44	74	-17.56	peak
7236	44.94	-0.95	43.99	54	-10.01	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	65.36	-3.51	61.85	74	-12.15	peak
4874	48.58	-3.51	45.07	54	-8.93	AVG
7311	58.25	-0.82	57.43	74	-16.57	peak
7311	45.62	-0.82	44.80	54	-9.20	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	64.27	-3.51	60.76	74	-13.24	peak
4874	46.99	-3.51	43.48	54	-10.52	AVG
7311	59.25	-0.82	58.43	74	-15.57	peak
7311	43.94	-0.82	43.12	54	-10.88	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	64.76	-3.43	61.33	74	-12.67	peak
4924	45.90	-3.43	42.47	54	-11.53	AVG
7386	59.23	-0.75	58.48	74	-15.52	peak
7386	44.00	-0.75	43.25	54	-10.75	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	63.25	-3.43	59.82	74	-14.18	peak
4924	47.46	-3.43	44.03	54	-9.97	AVG
7386	58.34	-0.75	57.59	74	-16.41	peak
7386	43.76	-0.75	43.01	54	-10.99	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	64.82	-3.64	61.18	74	-12.82	peak
4824	48.56	-3.64	44.92	54	-9.08	AVG
7236	59.15	-0.95	58.20	74	-15.80	peak
7236	46.03	-0.95	45.08	54	-8.92	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	63.73	-3.64	60.09	74	-13.91	peak
4824	49.24	-3.64	45.60	54	-8.40	AVG
7236	57.99	-0.95	57.04	74	-16.96	peak
7236	43.35	-0.95	42.40	54	-11.60	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	63.76	-3.51	60.25	74	-13.75	peak
4874	46.91	-3.51	43.40	54	-10.60	AVG
7311	59.73	-0.82	58.91	74	-15.09	peak
7311	45.14	-0.82	44.32	54	-9.68	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	64.26	-3.51	60.75	74	-13.25	peak
4874	47.36	-3.51	43.85	54	-10.15	AVG
7311	56.80	-0.82	55.98	74	-18.02	peak
7311	43.15	-0.82	42.33	54	-11.67	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	65.34	-3.43	61.91	74	-12.09	peak
4924	49.37	-3.43	45.94	54	-8.06	AVG
7386	57.77	-0.75	57.02	74	-16.98	peak
7386	43.12	-0.75	42.37	54	-11.63	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	61.99	-3.43	58.56	74	-15.44	peak
4924	48.29	-3.43	44.86	54	-9.14	AVG
7386	56.72	-0.75	55.97	74	-18.03	peak
7386	41.82	-0.75	41.07	54	-12.93	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	65.29	-3.64	61.65	74	-12.35	peak
4824	48.01	-3.64	44.37	54	-9.63	AVG
7236	57.35	-0.95	56.40	74	-17.60	peak
7236	43.84	-0.95	42.89	54	-11.11	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	62.79	-3.64	59.15	74	-14.85	peak
4824	50.33	-3.64	46.69	54	-7.31	AVG
7236	56.94	-0.95	55.99	74	-18.01	peak
7236	46.17	-0.95	45.22	54	-8.78	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	64.77	-3.51	61.26	74.00	-12.74	peak
4874.00	49.50	-3.51	45.99	54.00	-8.01	AVG
7311.00	58.02	-0.82	57.20	74.00	-16.80	peak
7311.00	45.03	-0.82	44.21	54.00	-9.79	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	63.89	-3.51	60.38	74.00	-13.62	peak
4874.00	46.22	-3.51	42.71	54.00	-11.29	AVG
7311.00	57.10	-0.82	56.28	74.00	-17.72	peak
7311.00	41.46	-0.82	40.64	54.00	-13.36	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	64.13	-3.43	60.70	74	-13.30	peak
4924	46.11	-3.43	42.68	54	-11.32	AVG
7386	58.07	-0.75	57.32	74	-16.68	peak
7386	43.78	-0.75	43.03	54	-10.97	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	62.99	-3.43	59.56	74	-14.44	peak
4924	45.87	-3.43	42.44	54	-11.56	AVG
7386	56.98	-0.75	56.23	74	-17.77	peak
7386	41.63	-0.75	40.88	54	-13.12	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Restricted bands around fundamental frequency (Radiated)

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	57.69	-5.81	51.88	74	-22.12	peak
2390	/	-5.81	/	54	/	AVG
2399	63.57	-5.84	57.73	74	-16.27	peak
2399	49.62	-5.84	43.78	54	-10.22	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	56.40	-5.81	50.59	74	-23.41	peak
2390	/	-5.81	/	54	/	AVG
2399	63.55	-5.84	57.71	74	-16.29	peak
2399	46.81	-5.84	40.97	54	-13.03	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.97	-5.65	51.32	74	-22.68	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.74	-5.65	51.09	74	-22.91	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	59.60	-5.81	53.79	74	-20.21	peak
2390	/	-5.81	/	54	/	AVG
2399	62.33	-5.84	56.49	74	-17.51	peak
2399	47.45	-5.84	41.61	54	-12.39	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	56.97	-5.81	51.16	74	-22.84	peak
2390	/	-5.81	/	54	/	AVG
2399	63.33	-5.84	57.49	74	-16.51	peak
2399	46.30	-5.84	40.46	54	-13.54	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.26	-5.65	50.61	74	-23.39	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.34	-5.65	50.69	74	-23.31	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2390	56.13	-5.81	50.32	74	-23.68	
2390	/	-5.81	/	54	/	AVG
2399	62.50	-5.84	56.66	74	-17.34	peak
2399	48.77	-5.84	42.93	54	-11.07	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2390	56.39	-5.81	50.58	74	-23.42	
2390	/	-5.81	/	54	/	AVG
2399	60.67	-5.84	54.83	74	-19.17	peak
2399	48.20	-5.84	42.36	54	-11.64	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	56.12	-5.65	50.47	74	-23.53	
2483.5	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Vertical:

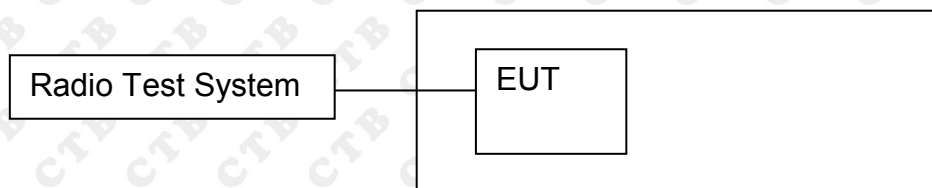
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.10	-5.65	51.45	74	-22.55	
2483.5	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

8. BAND EDGE AND RF CONDUCTED SPURIOUS EMISSIONS

8.1 Block Diagram Of Test Setup



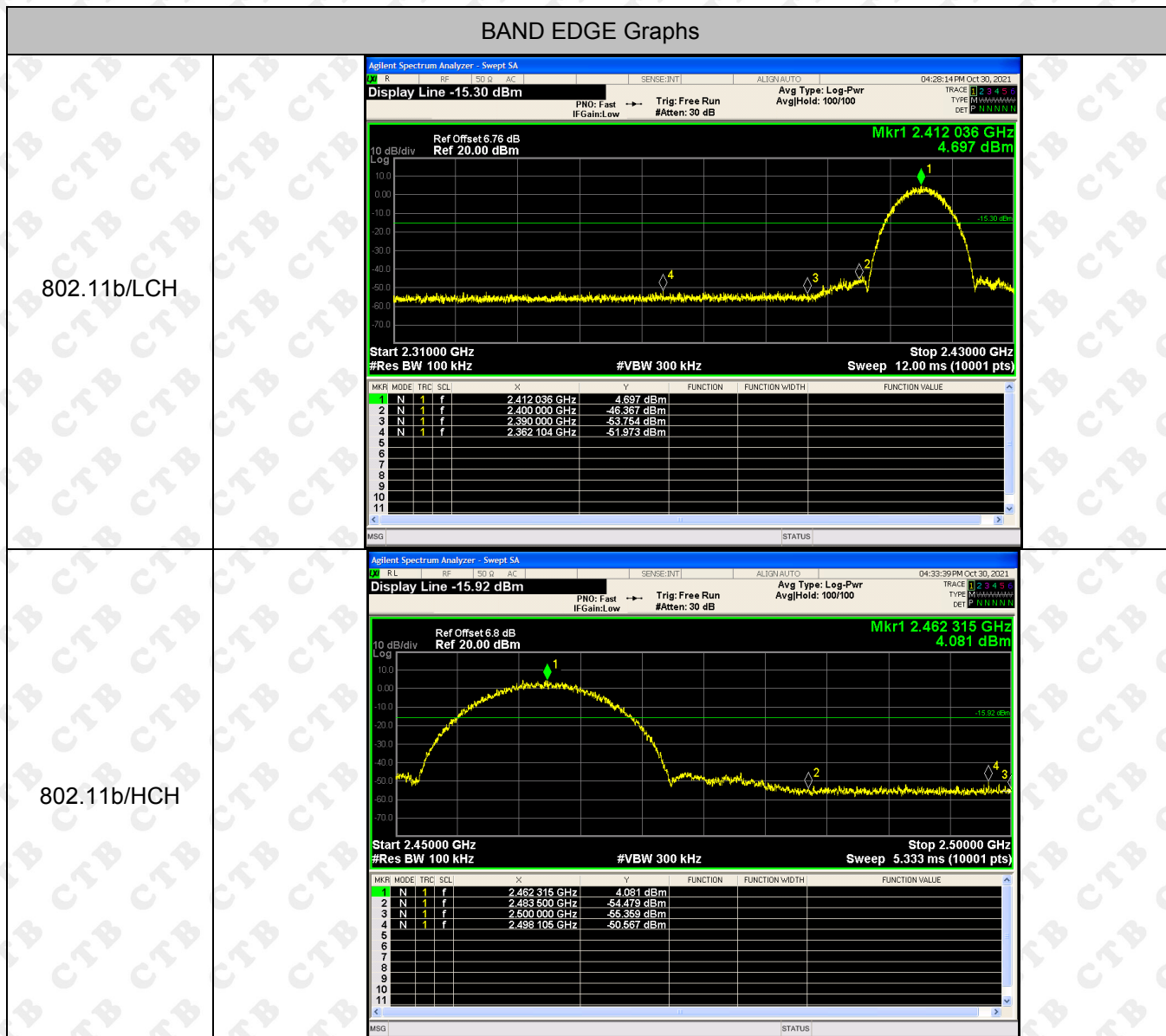
8.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

8.3 Test procedure

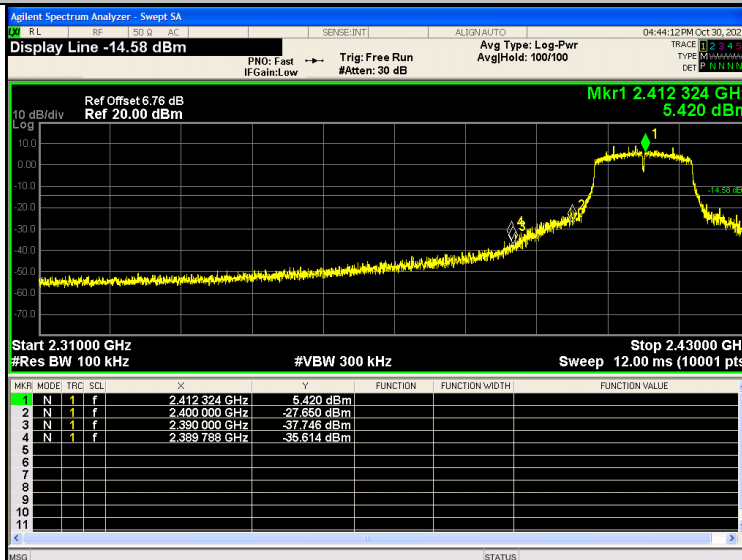
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
Below 30MHz:
RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold
Above 30MHz:
RBW = 100KHz, VBW = 300KHz, Sweep = auto
Detector function = peak, Trace = max hold

8.4 Test Result

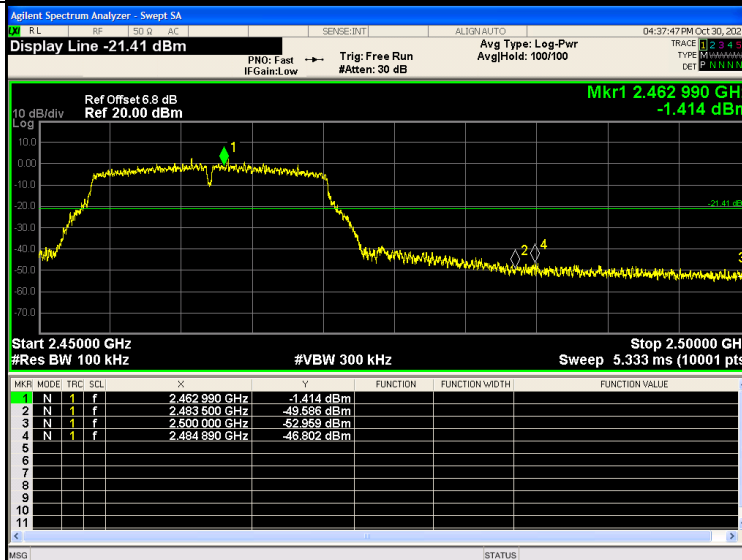


BAND EDGE Graphs

802.11g/LCH

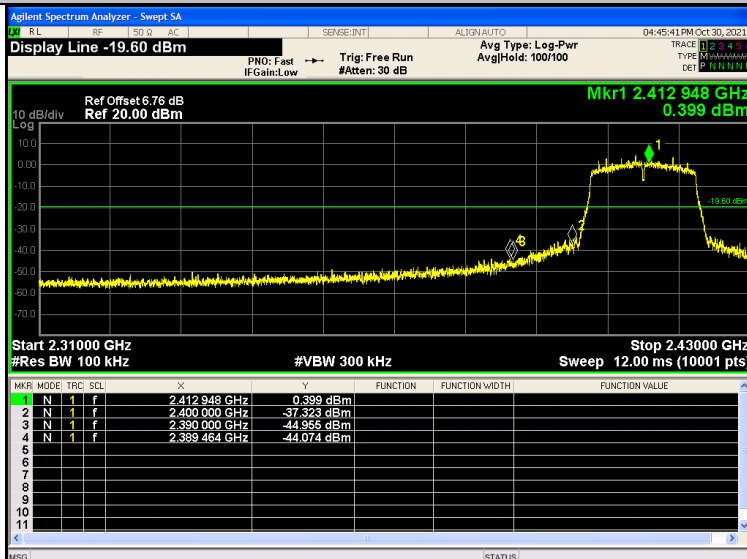


802.11g/HCH

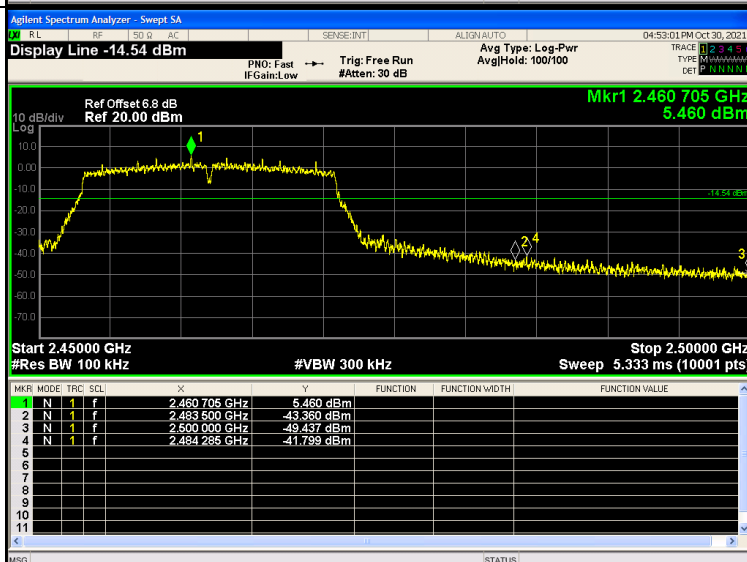


BAND EDGE Graphs

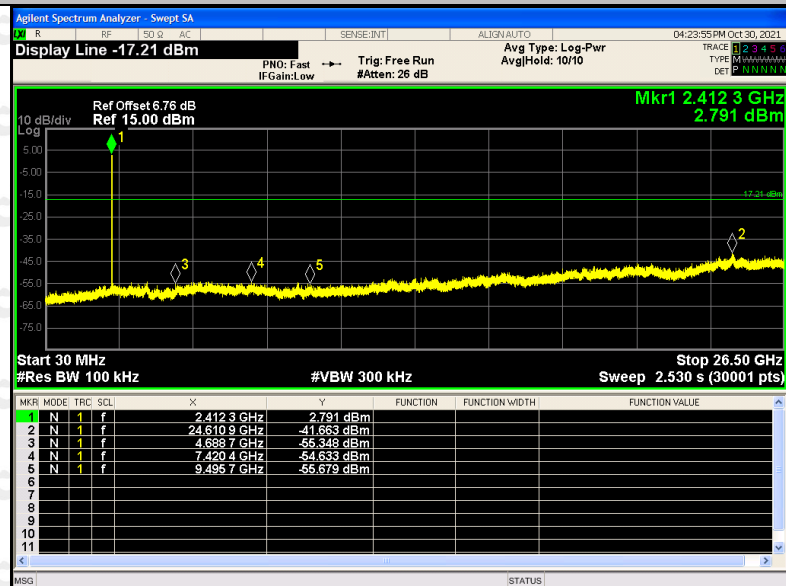
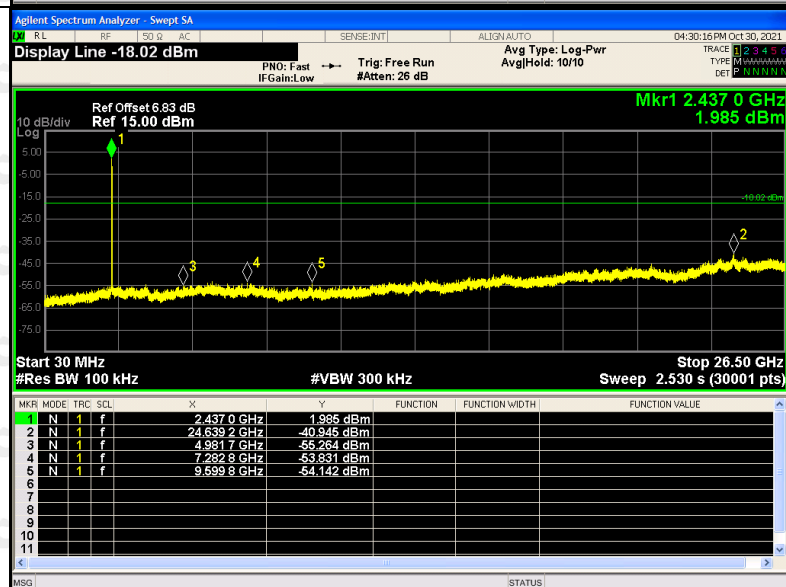
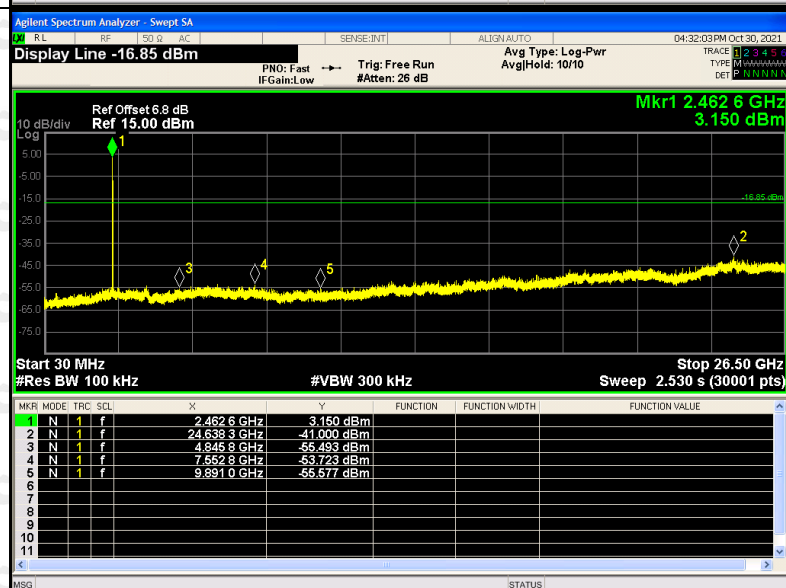
802.11n(HT20)/L
CH



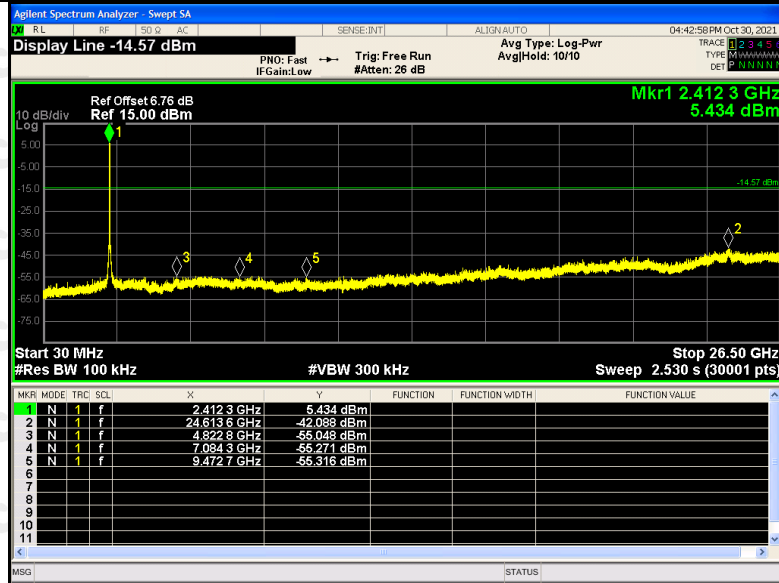
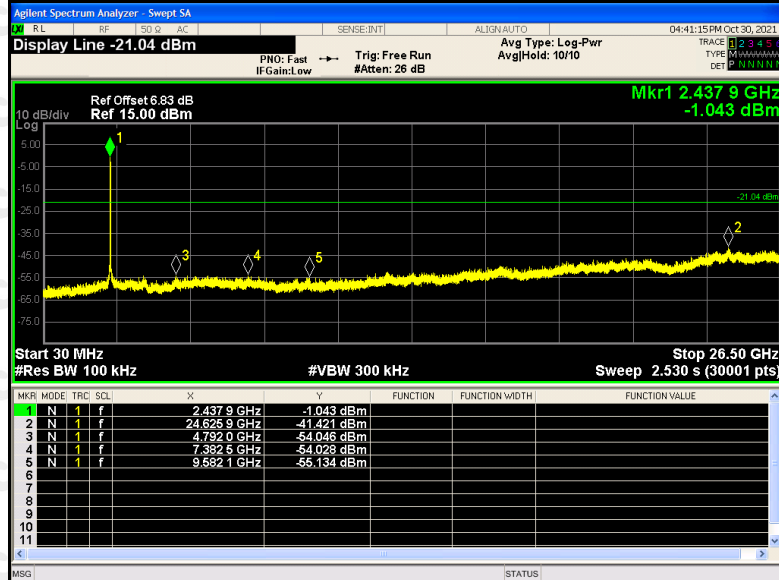
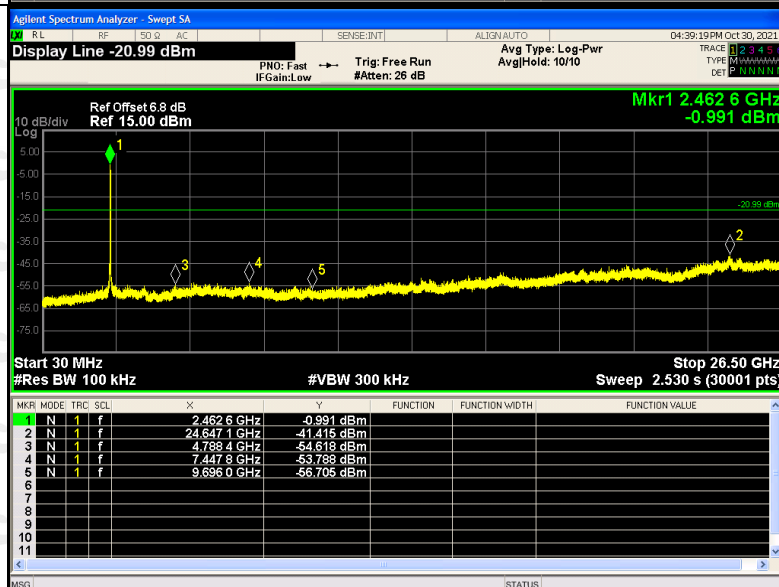
802.11n(HT20)/H
CH



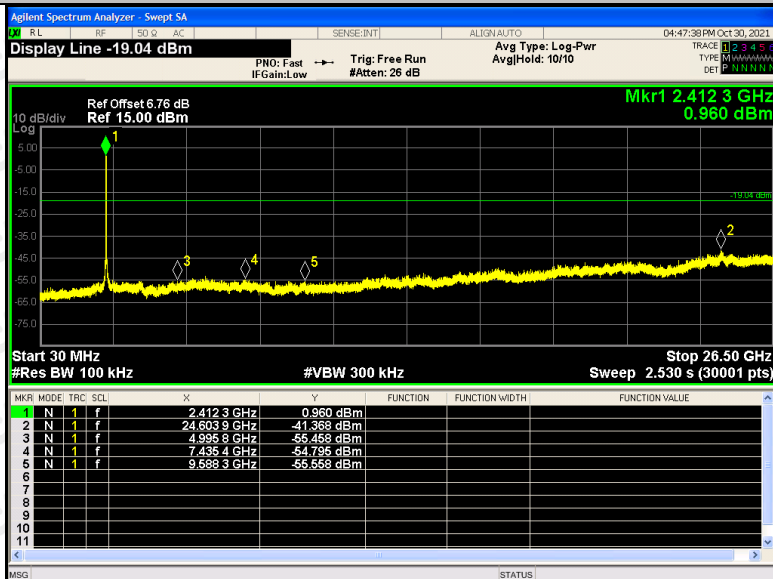
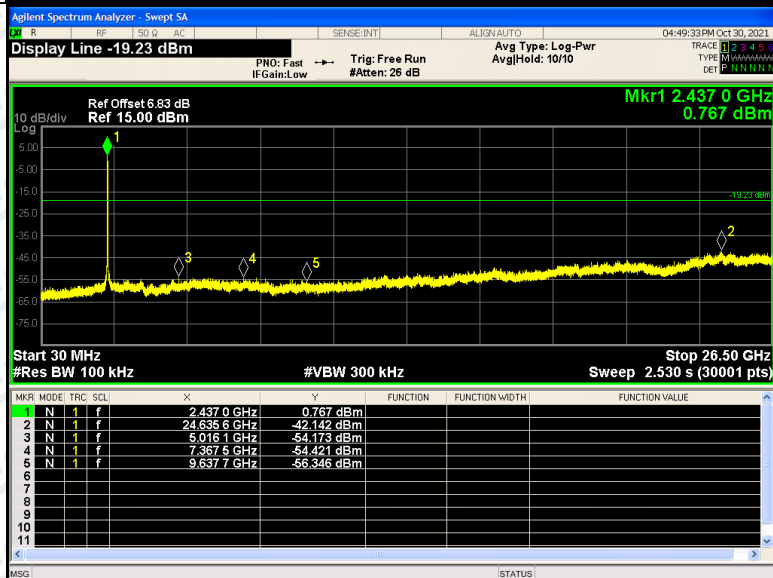
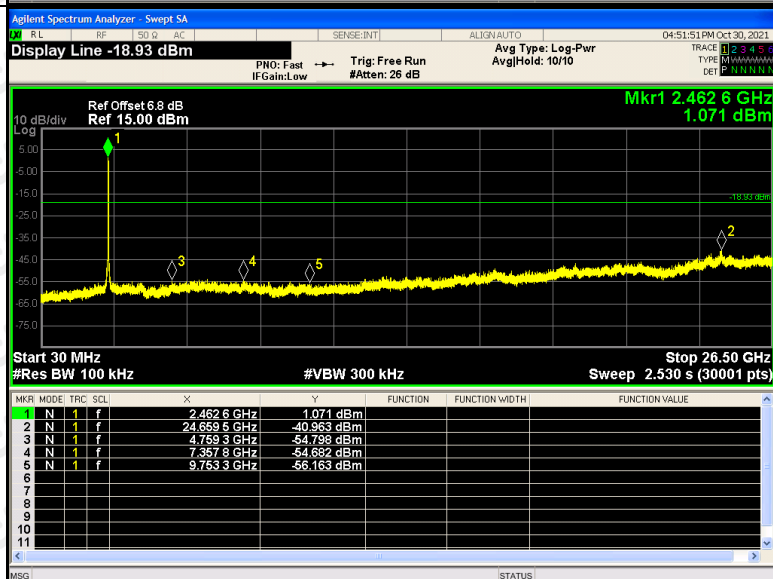
RF Conducted Spurious Emissions Graphs

802.11b
/LCH802.11b
/MCH802.11b
/HCH

RF Conducted Spurious Emissions Graphs

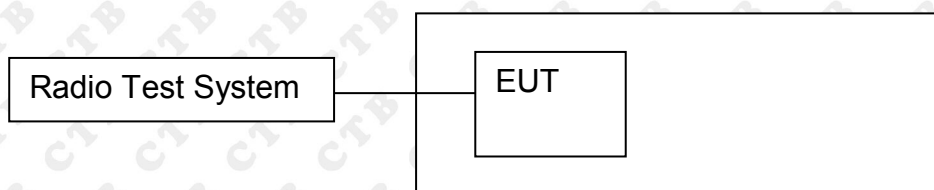
802.11g
/LCH

802.11g
/MCH

802.11g
/HCH


RF Conducted Spurious Emissions Graphs

802.11n
(HT20)/
LCH

802.11
n(HT20)
/MCH

802.11
n(HT20)
/HCH


9. COUDUCTED OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

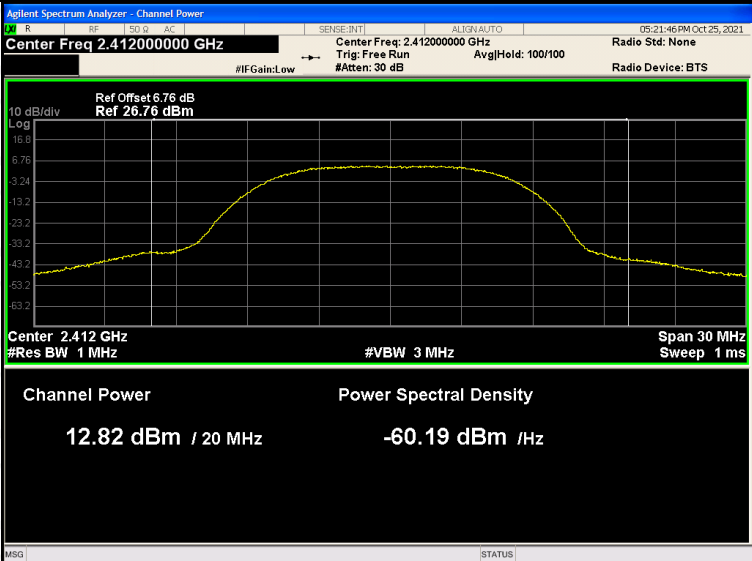
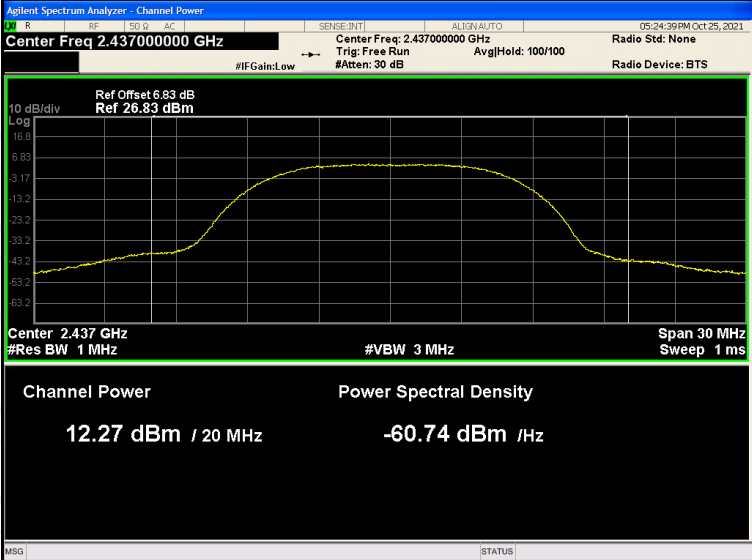
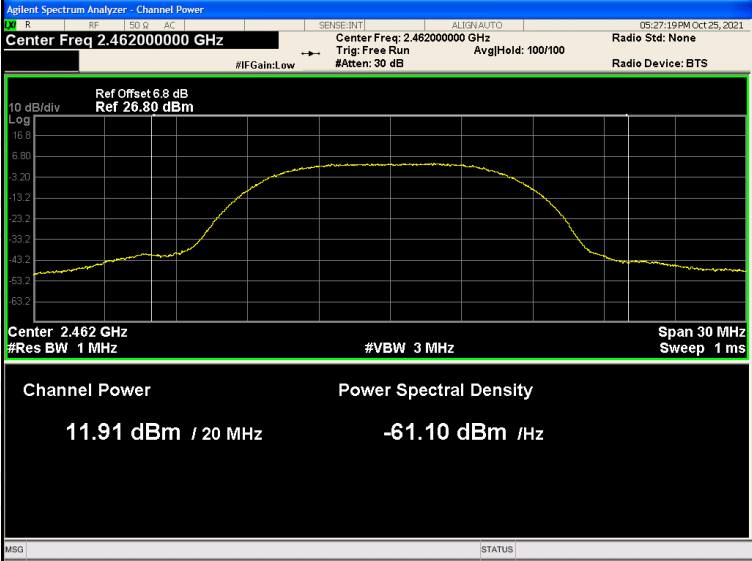
FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

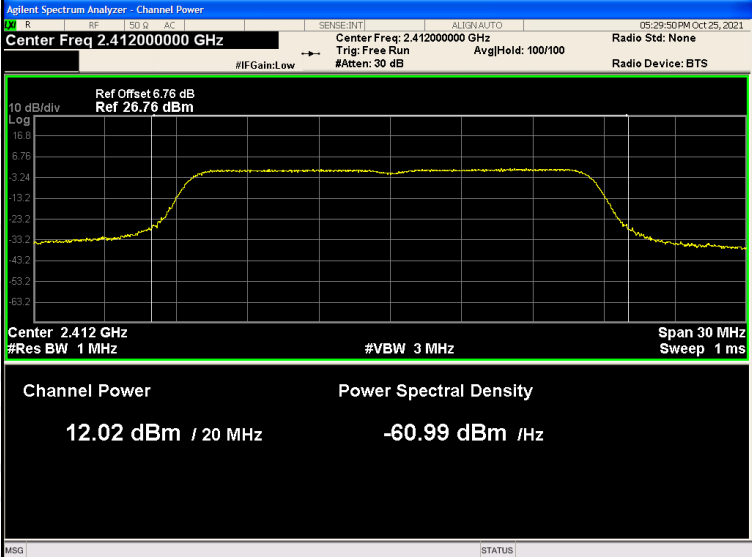
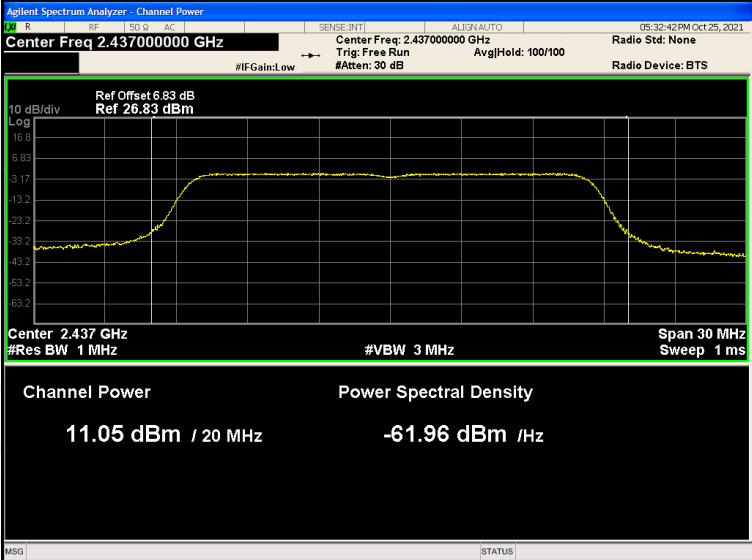
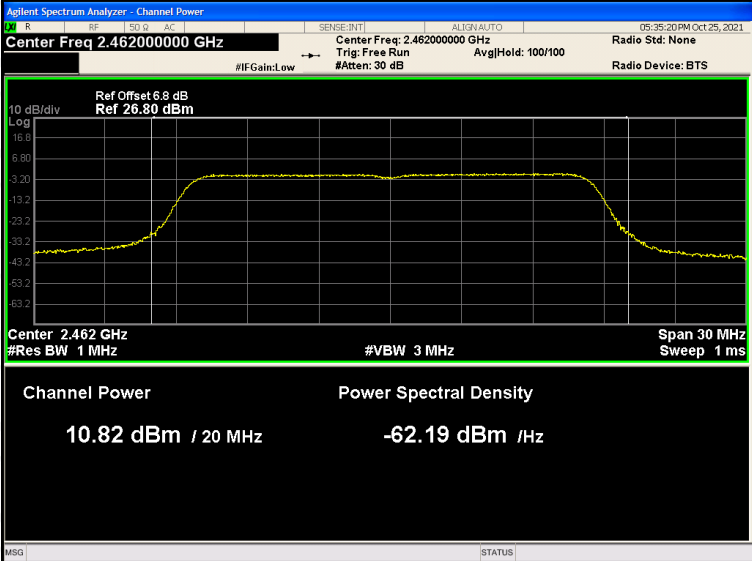
9.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak. Channel power function is used
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

9.4 Test Result

Mode	Channel.	Peak Output Power [dBm]	Limit[dBm]	Verdict
802.11b	LCH	12.822	30	PASS
	MCH	12.27	30	PASS
	HCH	11.907	30	PASS
802.11g	LCH	12.021	30	PASS
	MCH	11.046	30	PASS
	HCH	10.821	30	PASS
802.11n(HT20)	LCH	11.414	30	PASS
	MCH	10.856	30	PASS
	HCH	10.425	30	PASS

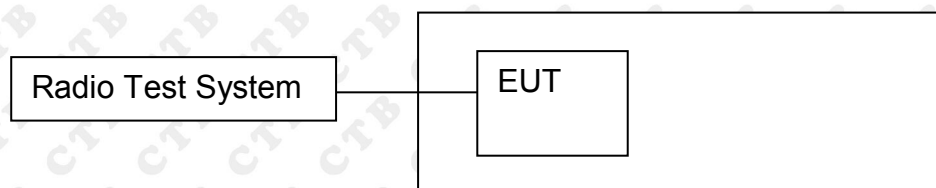
Mode	Channel.	Maximum Output Power [dBm]
802.11b	LCH	
	MCH	
	HCH	

	LCH	 Agilent Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Channel Power: 12.02 dBm / 20 MHz Power Spectral Density: -60.99 dBm / Hz	
802.11g	MCH	 Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Channel Power: 11.05 dBm / 20 MHz Power Spectral Density: -61.96 dBm / Hz	
	HCH	 Agilent Spectrum Analyzer - Channel Power Center Freq: 2.462000000 GHz Channel Power: 10.82 dBm / 20 MHz Power Spectral Density: -62.19 dBm / Hz	

	LCH	Agilent Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Channel Power: 11.41 dBm / 20 MHz Power Spectral Density: -61.60 dBm / Hz	
802.11n(HT20)	MCH	Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Channel Power: 10.86 dBm / 20 MHz Power Spectral Density: -62.15 dBm / Hz	
	HCH	Agilent Spectrum Analyzer - Channel Power Center Freq: 2.462000000 GHz Channel Power: 10.42 dBm / 20 MHz Power Spectral Density: -62.59 dBm / Hz	

10. 6DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

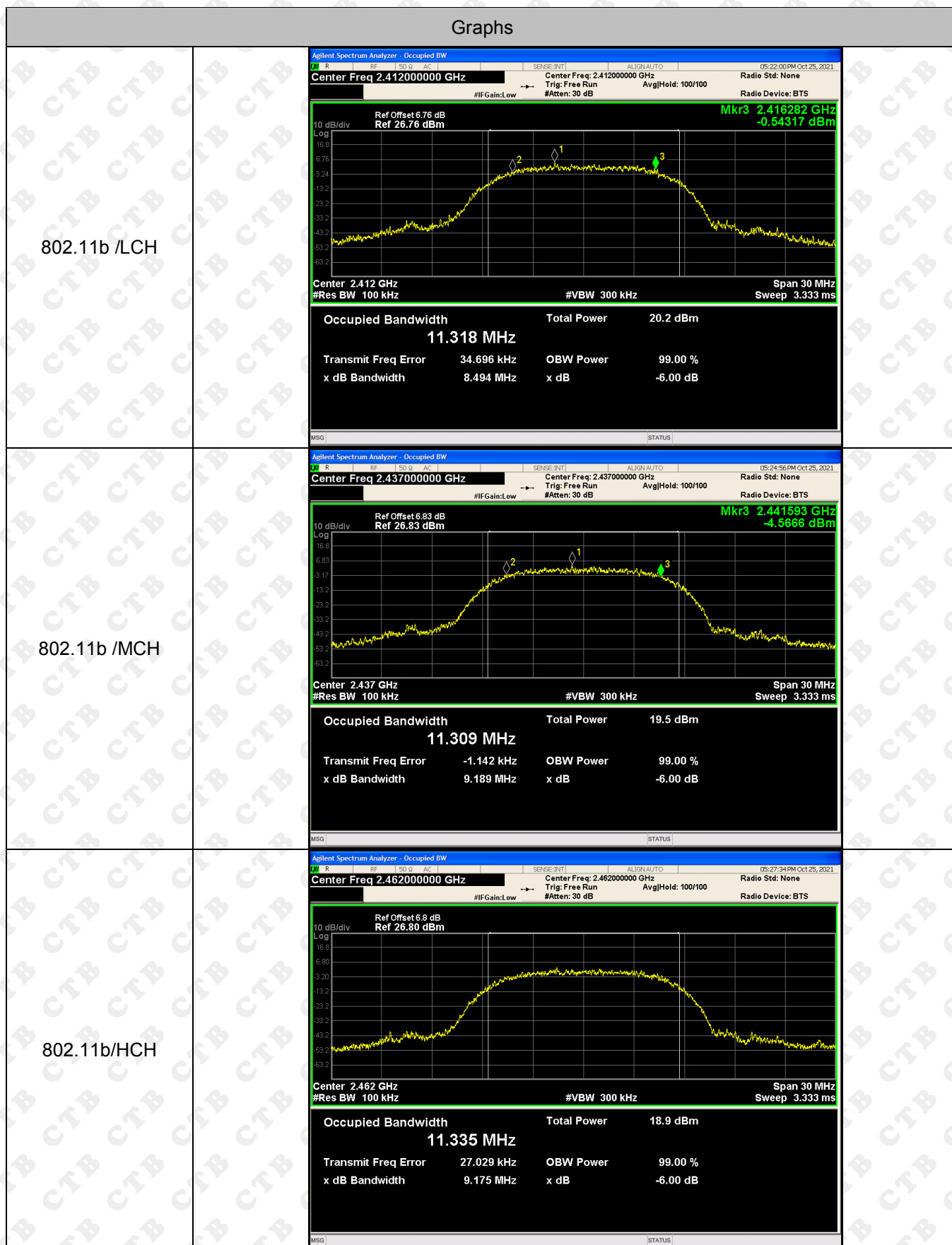
10.3 Test procedure

1. Rem1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

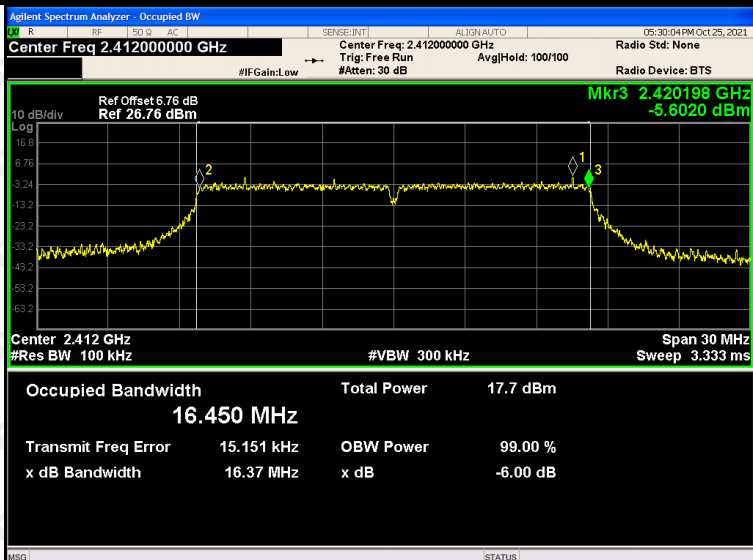
10.4 Test Result

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	8.494	500	PASS
	MCH	9.189	500	PASS
	HCH	9.175	500	PASS
802.11g	LCH	16.366	500	PASS
	MCH	16.37	500	PASS
	HCH	16.39	500	PASS
802.11n(HT20)	LCH	17.576	500	PASS
	MCH	17.599	500	PASS
	HCH	17.603	500	PASS

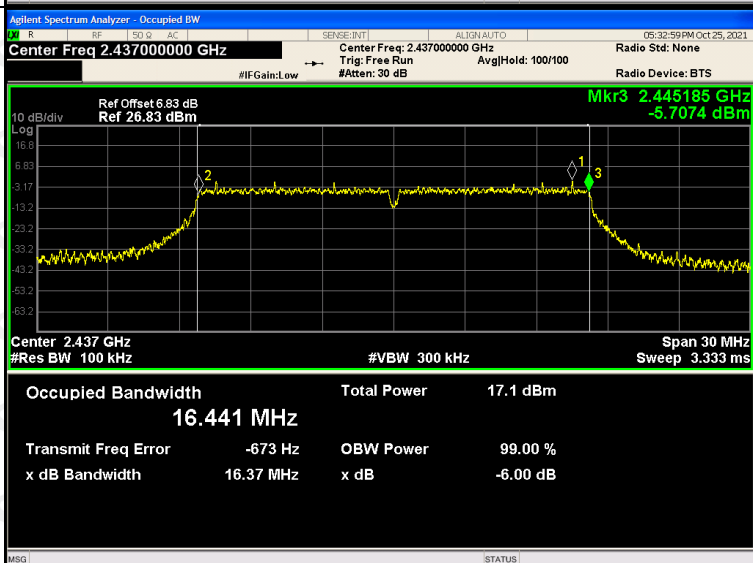
Test Graph:



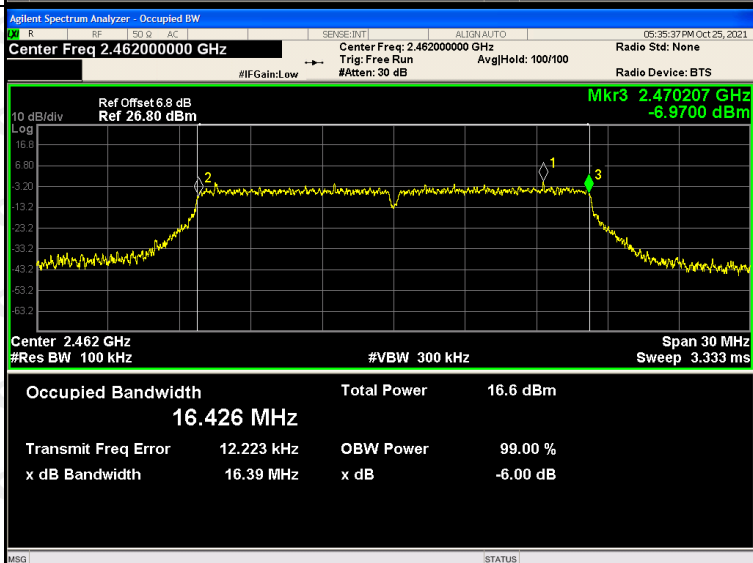
802.11g/LCH

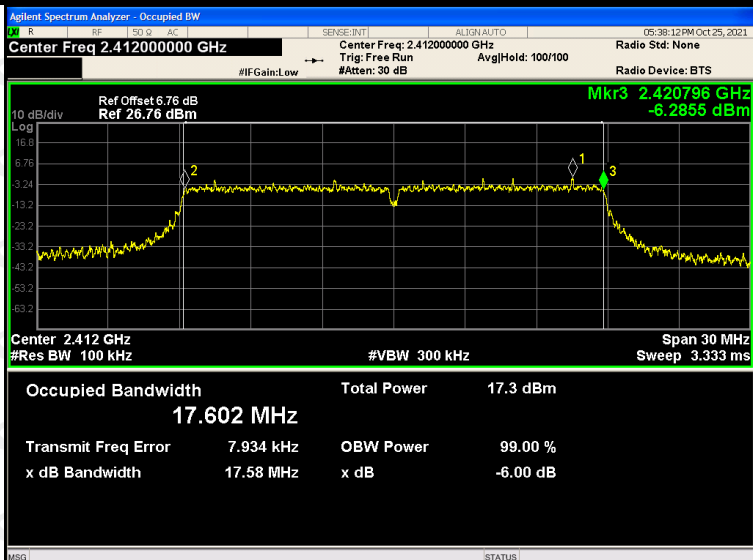
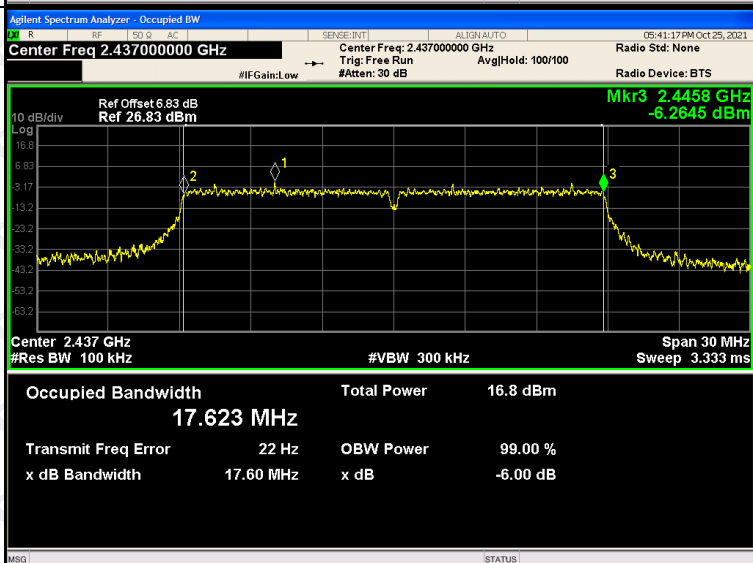
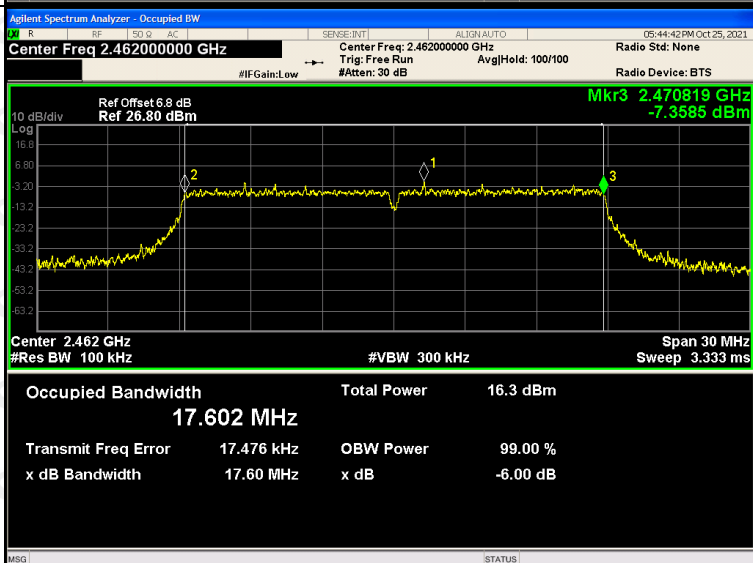


802.11g/MCH



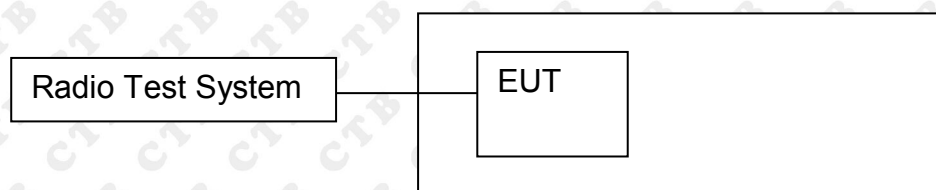
802.11g/HCH



802.11n(HT20)/LC
H802.11n(HT20)/MC
H802.11n(HT20)/HC
H

11. POWER SPECTRAL DENSITY

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

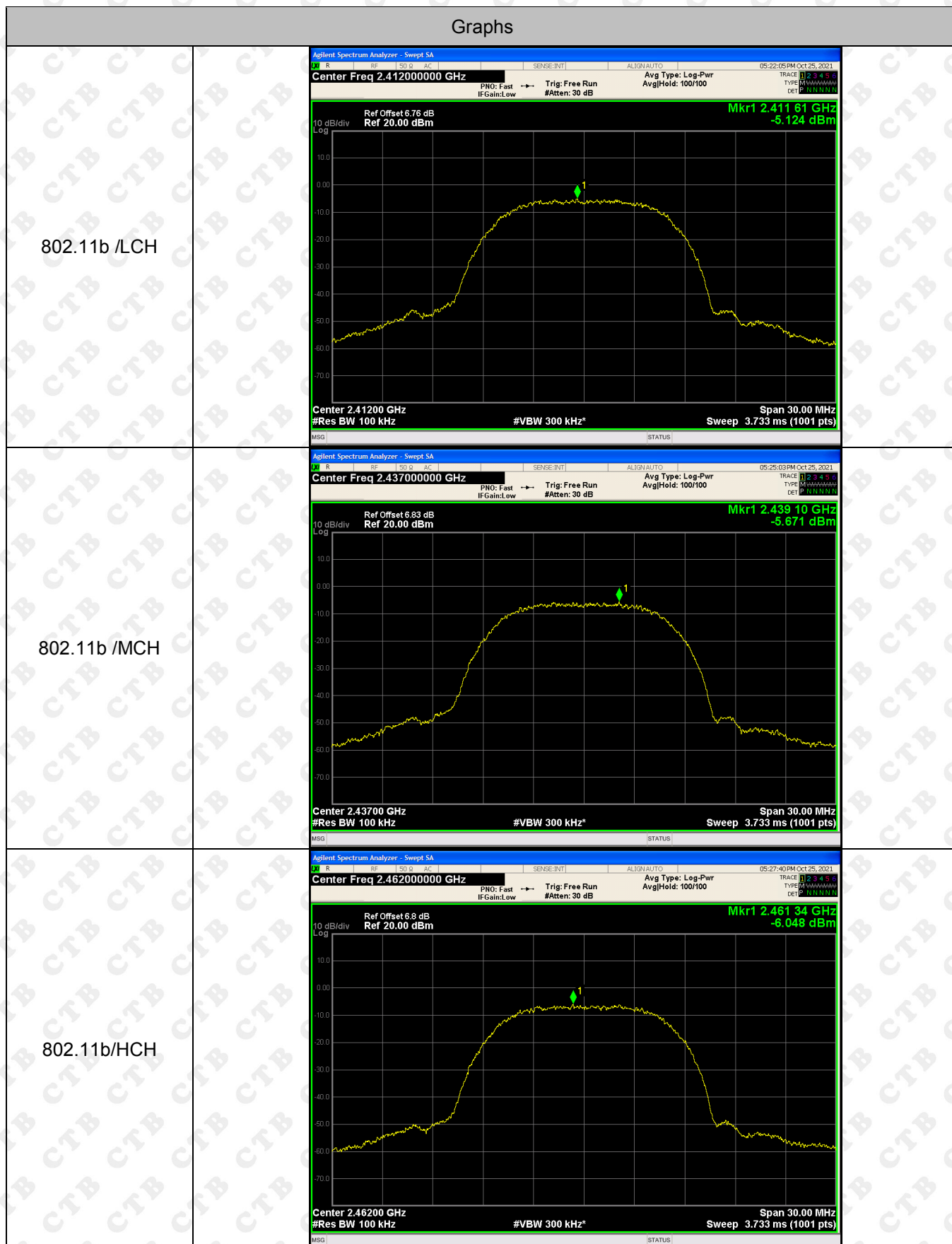
11.3 Test procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = PEAK.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

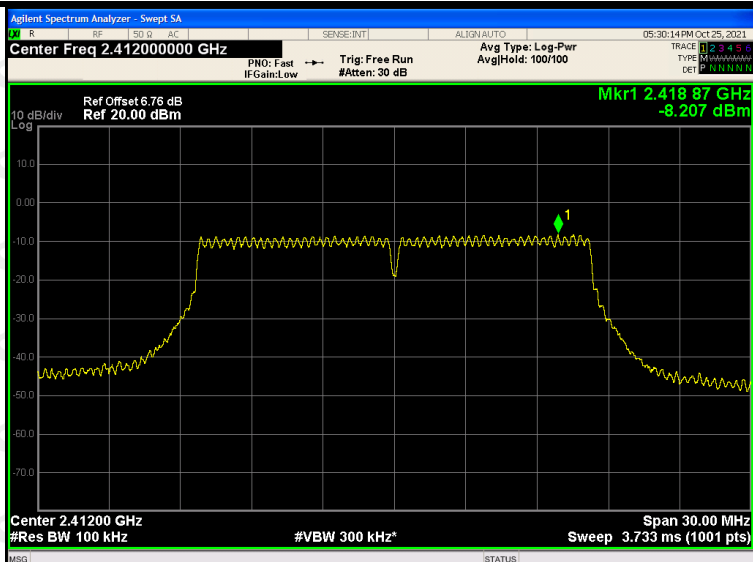
11.4 Test Result

Mode	Channel.	Power Spectral Density [dBm /100KHz]	Limit(8 dBm (in any 3KHz))	Verdict
802.11b	LCH	-5.124	8	PASS
	MCH	-5.671	8	PASS
	HCH	-6.048	8	PASS
802.11g	LCH	-8.207	8	PASS
	MCH	-8.956	8	PASS
	HCH	-8.767	8	PASS
802.11n(H T20)	LCH	-8.964	8	PASS
	MCH	-9.541	8	PASS
	HCH	-9.777	8	PASS

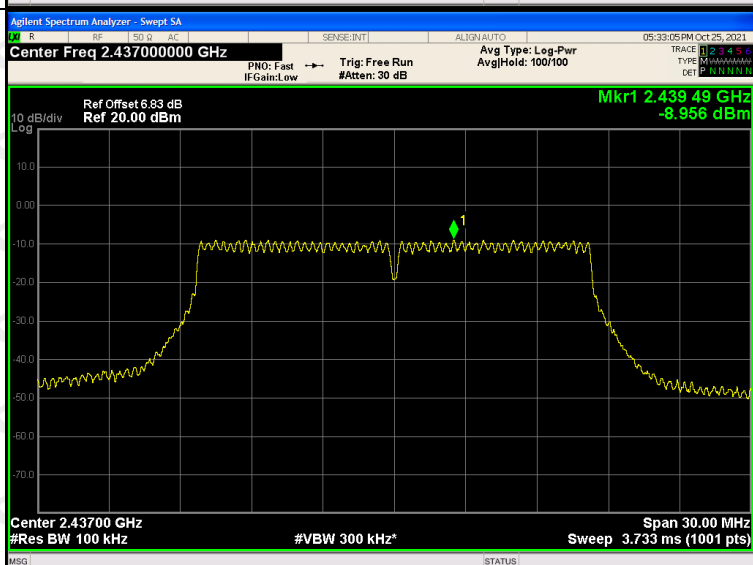
Test Graph



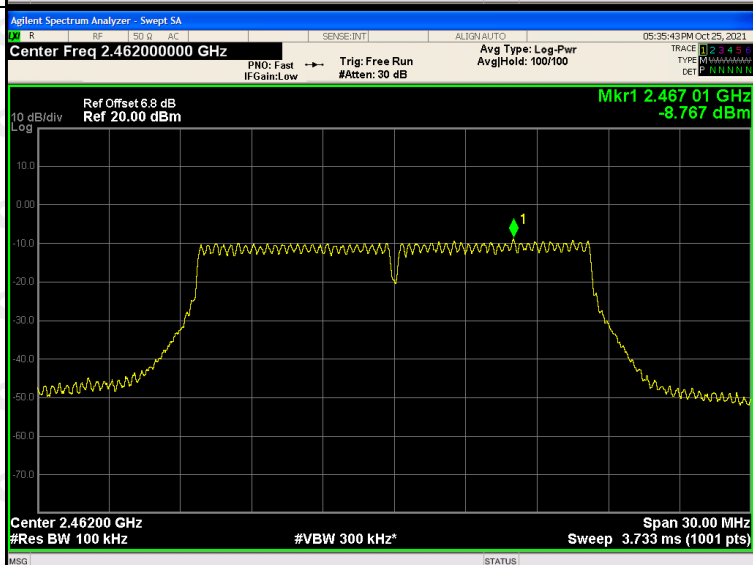
802.11g/LCH

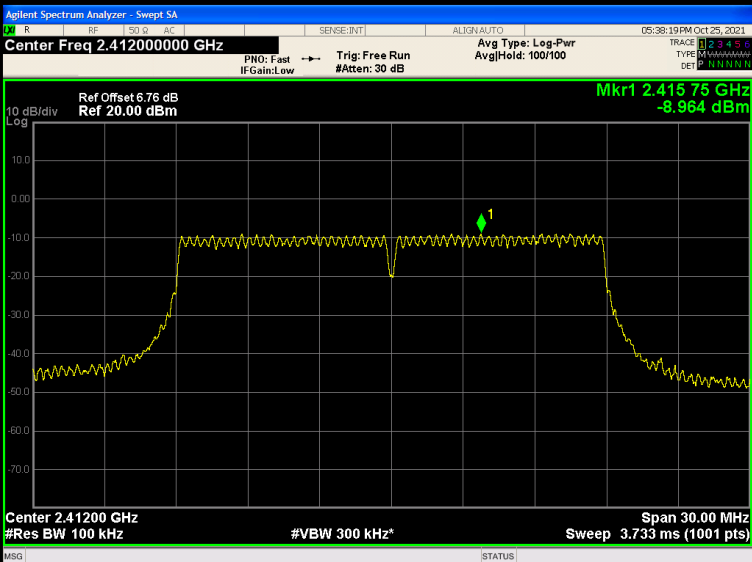
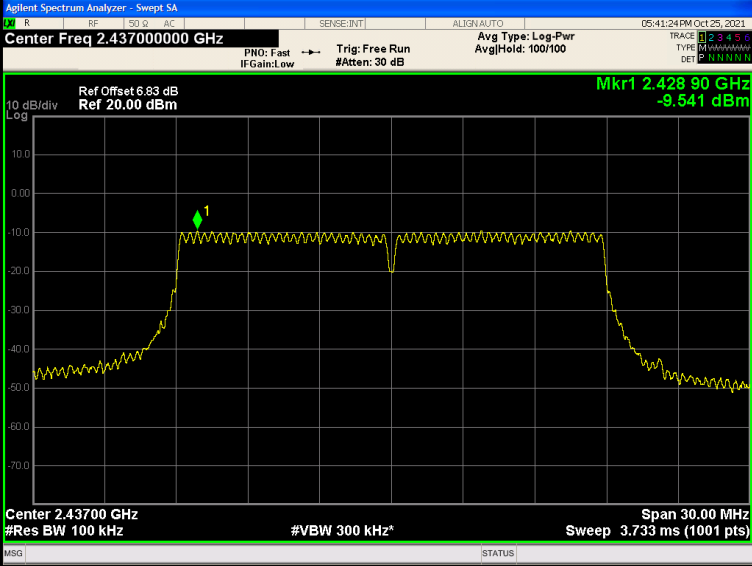
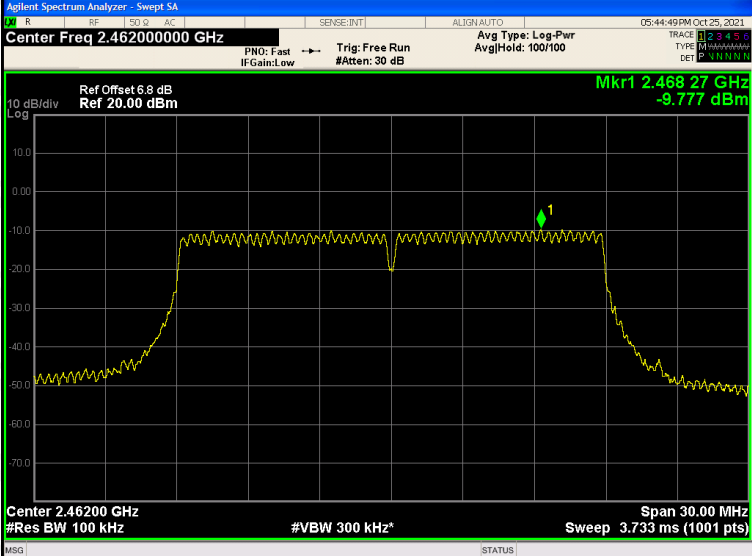


802.11g/MCH



802.11g/HCH



802.11n(HT20)/LC H	
802.11n(HT20)/MC H	
a802.11n(HT20)/H CH	

12. ANTENNA REQUIREMENT

15.203 requirement:

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, 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.

15.247(b) (4) requirement:

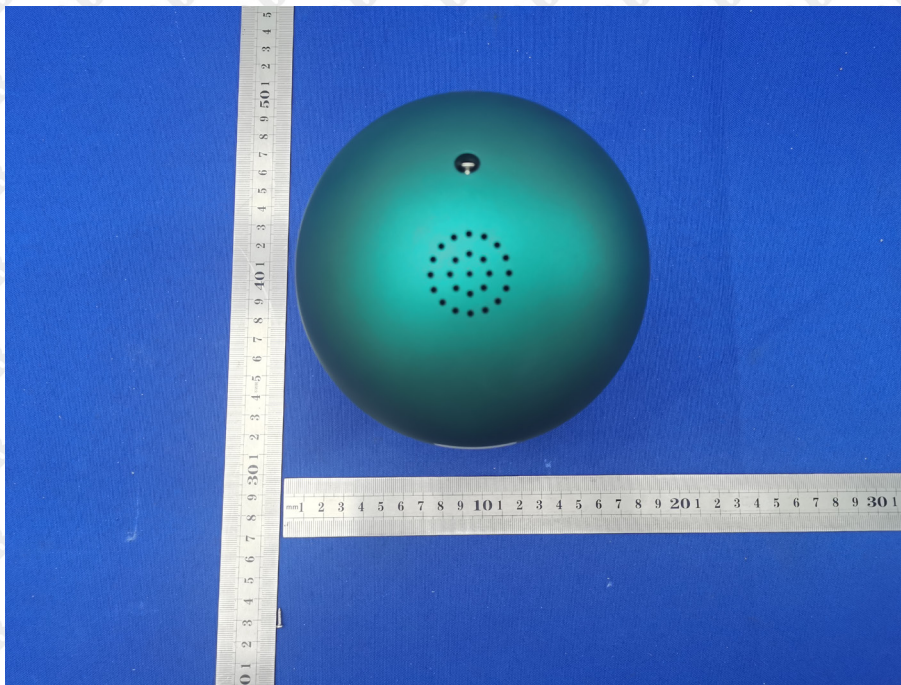
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

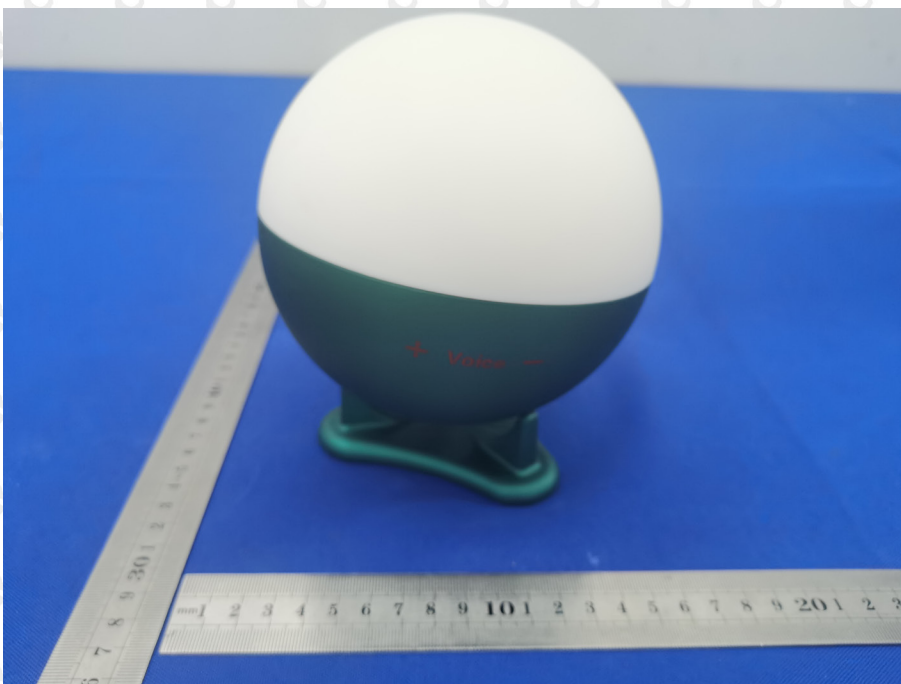
The antenna is PCB Antenna and no consideration of replacement. The best case gain of the antenna is 1.0dBi.

13. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2



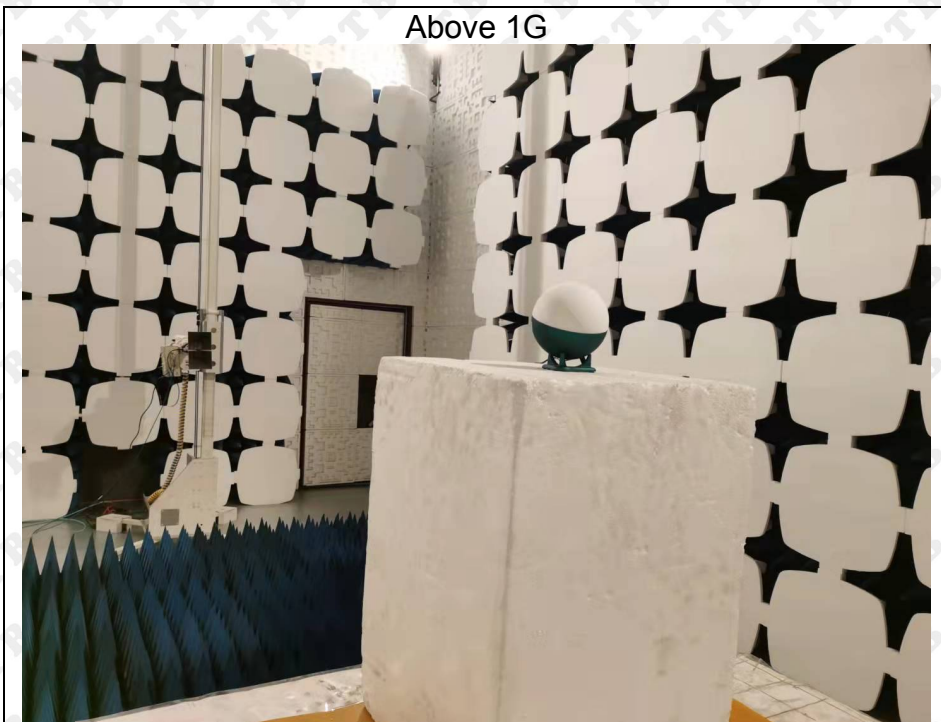
14. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

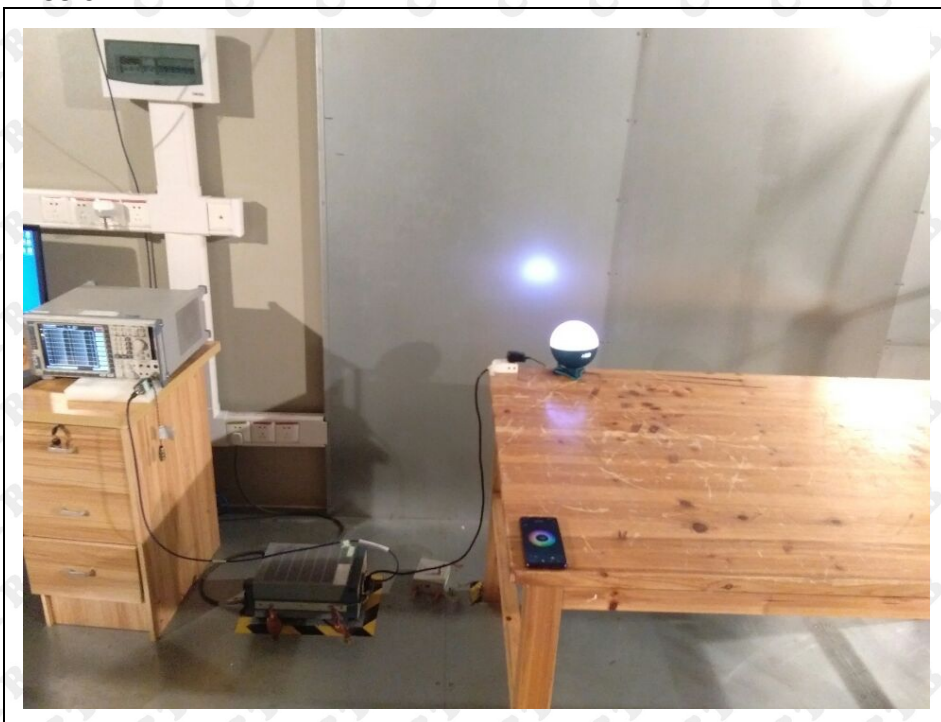
Below 1G



Above 1G



Conducted Emission



***** END OF REPORT *****