

TEST REPORT

Product Name: Dash camera
FCC ID: 2A3SE-B1W
Trademark: Blueskysea
Model Number: B1W, B4K, B2K, A12, B20, B30, B40, B2W, B1M, B2M, B3M, DV688, DV988, DV999, BS-XXXX (X can be 0~9 or A~Z or blank)
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Sample Received Date: Mar. 3, 2022
Sample tested Date: Mar. 3, 2022 to Mar. 16, 2022
Issue Date: Mar. 16, 2022
Report No.: CTB220316025RF
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
CTB220316025RF	Mar. 16, 2022	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 D01 v05r02	PASS
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (b)	ANSI C63.10-2013	PASS
RF Exposure Evaluation	47 CFR Part 15 Subpart C Section 15.247 (i)/1.1310/2.1091	KDB447498	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(9KHz-30MHz)	$U=\pm 4.8\text{dB}$
3m camber Radiated spurious emission(30MHz-1GHz)	$U=\pm 4.3\text{dB}$
3m chamber Radiated spurious emission(1GHz-18GHz)	$U=\pm 4.5\text{dB}$
3m chamber Radiated spurious emission(18GHz-40GHz)	$U=\pm 3.4\text{dB}$
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):	B1W, B4K, B2K, A12, B20, B30, B40, B2W, B1M, B2M, B3M, DV688, DV988, DV999, BS-XXXX (X can be 0~9 or A~Z or blank)
Model Description:	All the model are the same circuit and RF module, only for model name. Test sample model: B1W
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 IEEE 802.11n 40: 2422-2452MHz/ 7 channel
Max. RF output power:	WiFi (2.4G) : 7.85dBm
Type of Modulation:	WiFi: DSSS, OFDM, CCK
Antenna installation:	WiFi: Internal Antenna
Antenna Gain:	WiFi (2.4G) : 1.0dBi
Ratings:	DC 5V from USB

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

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: Dutycycle>98%.

4.6 Test Environment

Humidity(%):	55
Atmospheric Pressure(kPa):	101.1
Normal Voltage(DC):	5V
Normal Temperature(°C)	25
Low Temperature(°C)	0
High Temperature(°C)	50

Test mode	rate
802.11b	11M
802.11g	54M
802.11n20	65M
802.11n40	65M

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 date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	2021.09.27	2022.08.05
2	Power Sensor	Agilent	U2021XA	MY56120032	2021.09.27	2022.08.05
3	Power Sensor	Agilent	U2021XA	MY56120034	2021.09.27	2022.08.05
4	Communication test set	R&S	CMW500	108058	2021.09.27	2022.08.05
5	Spectrum Analyzer	R&S	FSP40	100550	2021.09.27	2022.08.05
6	Signal Generator	Agilent	N5181A	MY49060920	2021.09.27	2022.08.16
7	Signal Generator	Agilent	N5182A	MY47420195	2021.09.27	2022.08.05
8	Communication test set	Agilent	E5515C	MY50102567	2021.09.27	2022.08.16
9	band rejection filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	2021.09.27	2022.08.05
10	band rejection filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	2021.09.27	2022.08.05
11	band rejection filter	Xingbo	XBLBQ-DZA120	190821-1-1	2021.09.27	2022.08.05
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	2021.09.27	2022.08.05
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	2021.09.27	2022.08.05
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	2021.09.27	2022.08.05
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	2021.09.27	2022.08.05
16	966 chamber	C.R.T.	966 Room	966	2021.09.27	2024.08.11
17	Receiver	R&S	ESPI	100362	2021.09.27	2022.08.05
18	Amplifier	HP	8447E	2945A02747	2021.09.27	2022.08.05

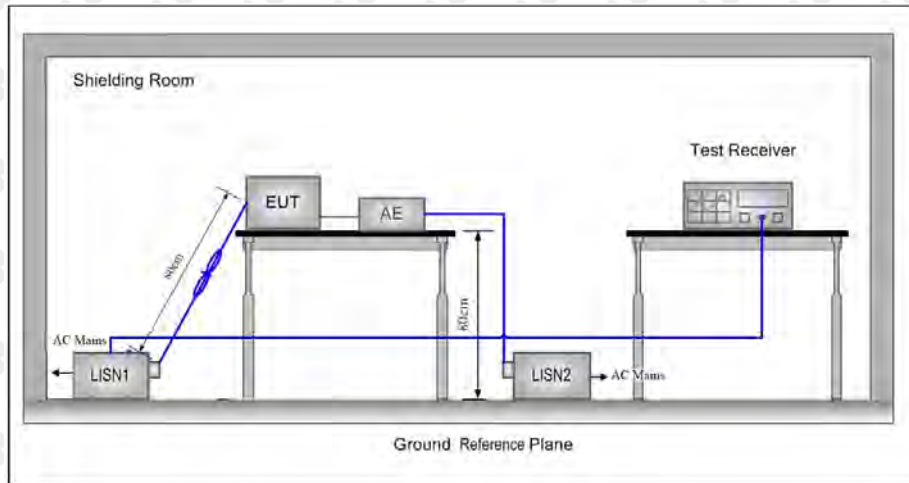
19	Amplifier	Agilent	8449B	3008A01838	2021.09.27	2022.08.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	869	2021.09.27	2022.08.07
21	Horn Antenna	Schwarzbeck	BBHA9120D	1911	2021.09.27	2022.08.08
22	Software	Fala	EZ-EMC	FA-03A2 RE	2021.09.27	2022.08.05
23	3-Loop Antenna	Daze	ZN30401	17014	2021.09.27	2022.08.05
24	loop antenna	ZHINAN	ZN30900A	/	2021.09.27	2022.08.05
25	Horn antenna	A/H/System	SAS-574	588	2021.09.27	2022.08.05
26	Amplifier	AEROFLEX	/	S/N/ 097	2021.09.27	2022.08.05

Continuous disturbance						
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated date	Calibrated until
1	AMN	ROHDE&SCHWARZ	ESH3-Z5	831551852	2021.09.27	2022.08.05
2	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	2021.09.27	2022.08.05
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428/003	2021.09.27	2022.08.05
4	Coaxial cable	ZDECL	Z302S	18091904	2021.09.27	2022.08.05
5	AAN	Schwarzbeck	NTFM8158	183	2021.09.27	2022.08.05
6	Communication test set	Agilent	E5515C	MY50102567	2021.09.27	2022.08.16
7	Communication test set	R&S	CMW500	108058	2021.09.27	2022.08.05
8	EZ-EMC	Frad	EMC-con3A 1.1	/	/	/

Radiated emission						
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated date	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	1911	2021.09.27	2022.08.08
2	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	869	2021.09.27	2022.08.05
3	Amplifier	Agilent	8449B	3008A01838	2021.09.27	2022.08.05
4	Amplifier	HP	8447E	2945A02747	2021.09.27	2022.08.05
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI7	100362	2021.09.27	2022.08.05
6	Coaxial cable	ETS	RFC-SNS-100-NMS-80 NI	/	2021.09.27	2022.08.05
7	Coaxial cable	ETS	RFC-SNS-100-NMS-20 NI	/	2021.09.27	2022.08.05
8	Coaxial cable	ETS	RFC-SNS-100-SMS-20 NI	/	2021.09.27	2022.08.05
9	Coaxial cable	ETS	RFC-NNS-100-NMS-300 NI	/	2021.09.27	2022.08.05
10	Communication test set	Agilent	E5515C	MY50102567	2021.09.27	2022.08.16
11	Communication test set	R&S	CMW500	108058	2021.09.27	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

Table 4 – AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
0.5 - 5	56	46
5 - 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

* Decreasing linearly with the logarithm of the frequency

6.3 Test procedure

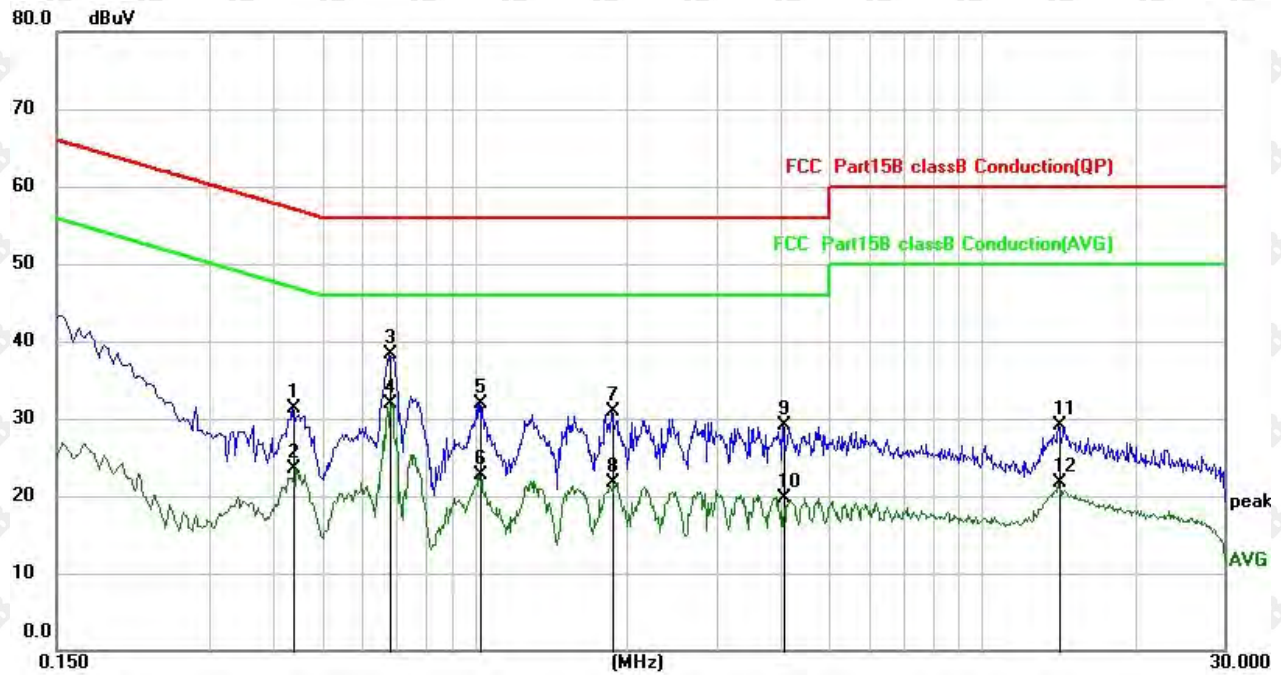
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT 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

L:

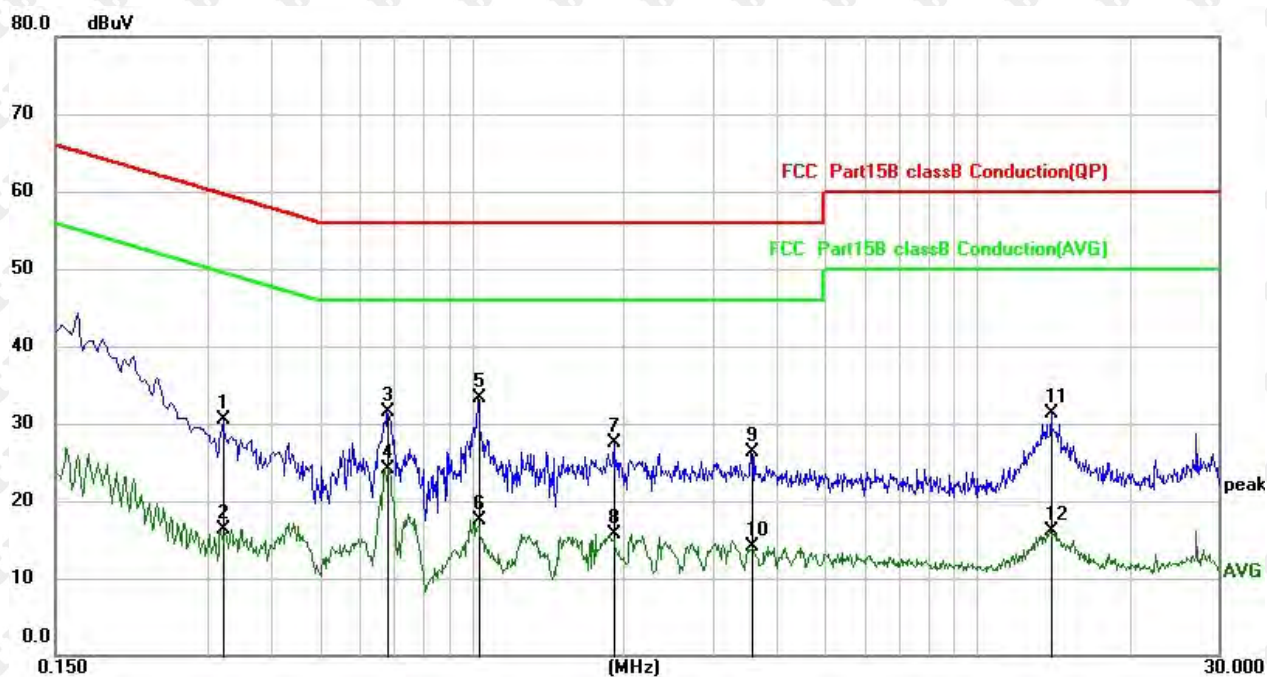


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.4380	20.67	10.56	31.23	57.10	-25.87	QP
2		0.4380	13.04	10.56	23.60	47.10	-23.50	AVG
3		0.6820	27.67	10.56	38.23	56.00	-17.77	QP
4	*	0.6820	21.35	10.56	31.91	46.00	-14.09	AVG
5		1.0220	21.35	10.62	31.97	56.00	-24.03	QP
6		1.0220	11.99	10.62	22.61	46.00	-23.39	AVG
7		1.8660	20.31	10.63	30.94	56.00	-25.06	QP
8		1.8660	11.13	10.63	21.76	46.00	-24.24	AVG
9		4.0620	18.44	10.64	29.08	56.00	-26.92	QP
10		4.0620	9.15	10.64	19.79	46.00	-26.21	AVG
11		14.2060	18.18	10.89	29.07	60.00	-30.93	QP
12		14.2060	10.85	10.89	21.74	50.00	-28.26	AVG

Remark:

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

N:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
		MHz	dBuV	Factor	ment	dBuV	dB	Detector
1		0.3220	19.80	10.62	30.42	59.66	-29.24	QP
2		0.3220	5.77	10.62	16.39	49.66	-33.27	AVG
3		0.6820	20.94	10.56	31.50	56.00	-24.50	QP
4	*	0.6820	13.64	10.56	24.20	46.00	-21.80	AVG
5		1.0300	22.76	10.62	33.38	56.00	-22.62	QP
6		1.0300	6.92	10.62	17.54	46.00	-28.46	AVG
7		1.9180	16.86	10.63	27.49	56.00	-28.51	QP
8		1.9180	5.16	10.63	15.79	46.00	-30.21	AVG
9		3.5700	15.70	10.64	26.34	56.00	-29.66	QP
10		3.5700	3.46	10.64	14.10	46.00	-31.90	AVG
11		14.0340	20.44	10.89	31.33	60.00	-28.67	QP
12		14.0340	5.21	10.89	16.10	50.00	-33.90	AVG

Remark:

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

7. RADIATED SPURIOUS EMISSION

7.1 Block Diagram Of Test Setup

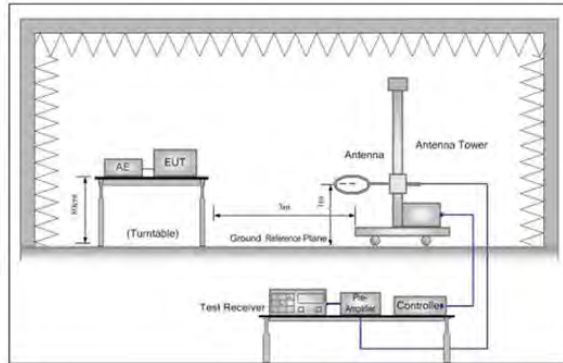


Figure 1. Below 30MHz

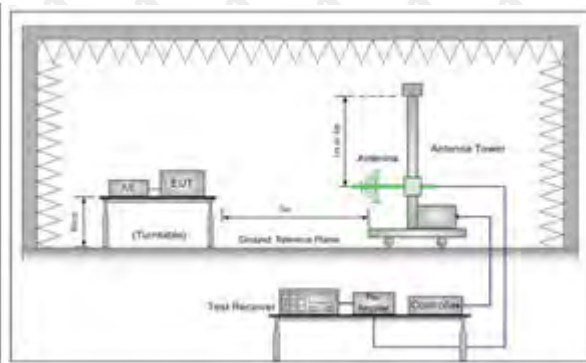


Figure 2. 30MHz to 1GHz

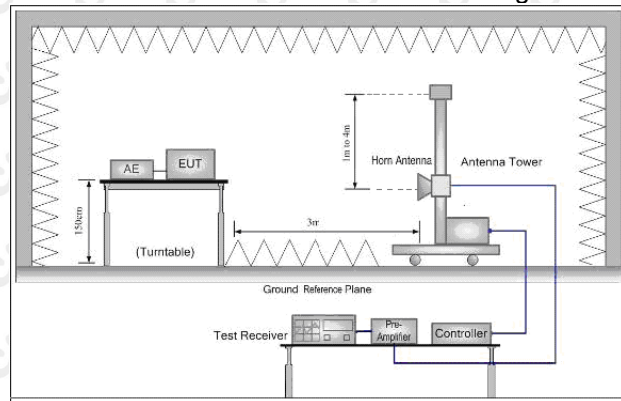


Figure 3. Above 1GHz

7.2 Limit

Spurious Emissions:

Frequency	Field strength (microvolt/meter)	Limit (dBμV/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.
- Full battery is used during test

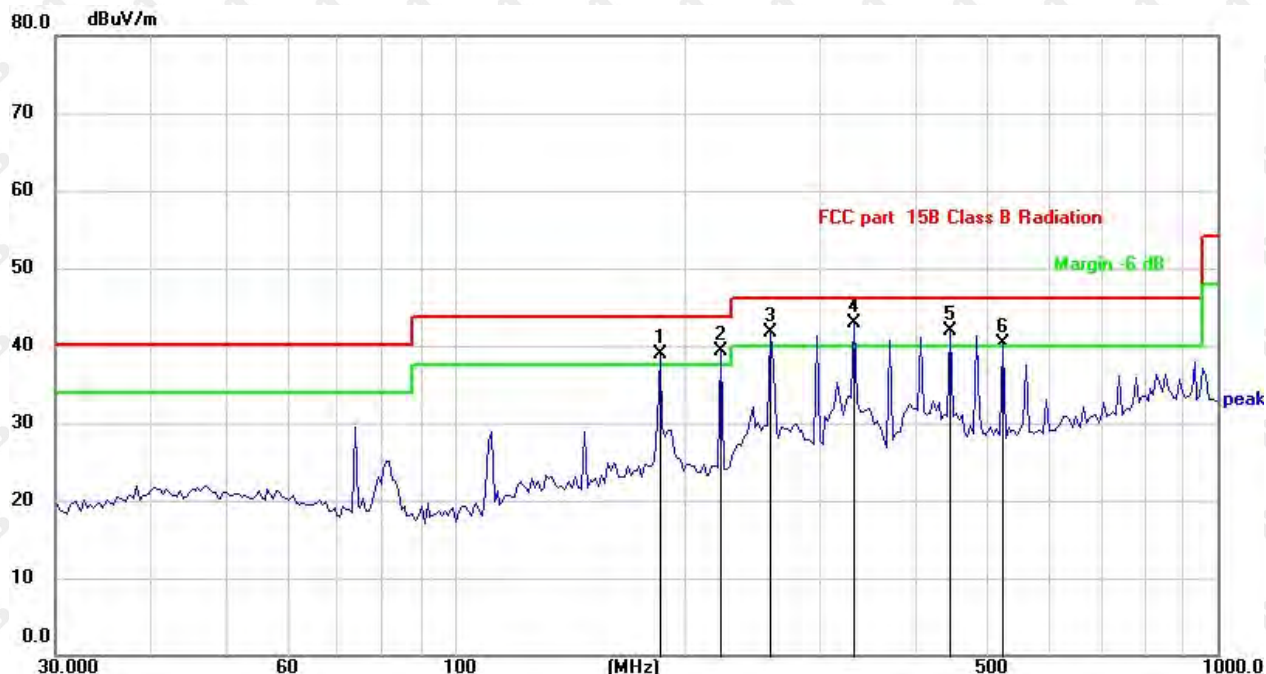
Receiver set:

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

The margin of 9K-30MH measurement exceeds 20dB, so the test chart is not included. Test Mode: TM1 (the worst)

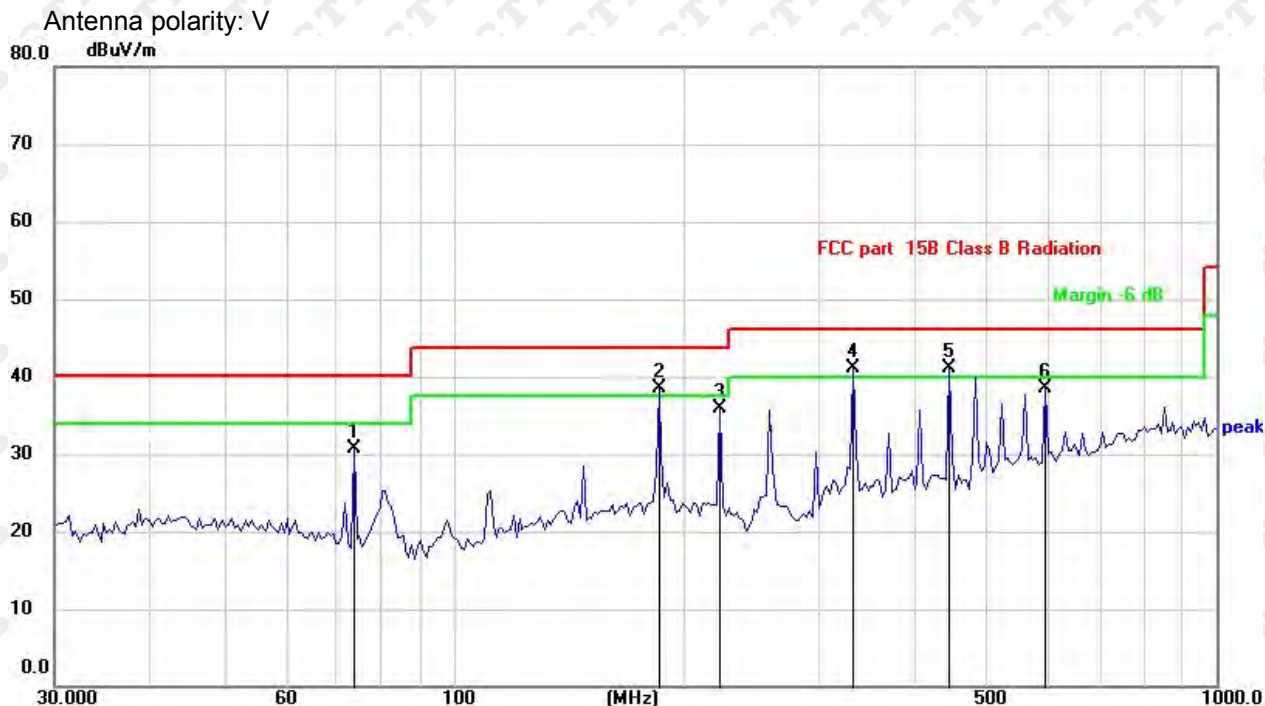
7.4 Test Result

Below 1GHz Test Results:
Antenna polarity: H



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dB/m	dB	
1	!	185.7881	46.88	-7.96	38.92	43.50	-4.58	QP
2	!	223.3413	45.75	-6.42	39.33	43.50	-4.17	QP
3	!	259.2337	47.29	-5.61	41.68	46.00	-4.32	QP
4	*	334.2722	46.87	-4.01	42.86	46.00	-3.14	QP
5	!	446.4139	42.55	-0.57	41.98	46.00	-4.02	QP
6	!	522.7178	39.09	1.13	40.22	46.00	-5.78	QP

1. Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level
2. All modes have been tested, and the test results show that b-mode data is the worst, only b-mode test chart is put.
3. After pre-scanning three directions, the report recorded the worst case



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		74.0052	39.30	-8.66	30.64	40.00	-9.36	QP
2	!	185.7881	46.48	-7.96	38.52	43.50	-4.98	QP
3		223.3413	42.27	-6.42	35.85	43.50	-7.65	QP
4	!	334.2722	45.05	-4.01	41.04	46.00	-4.96	QP
5	*	446.4139	41.72	-0.57	41.15	46.00	-4.85	QP
6		596.1771	35.93	2.50	38.43	46.00	-7.57	QP

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

1. All modes have been tested, and the test results show that b-mode data is the worst, only b-mode test chart is put.
2. After pre-scanning three directions, the report recorded the worst case

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	65.72	-3.64	62.08	74	-11.92	peak
4824	49.92	-3.64	46.28	54	-7.72	AVG
7236	56.87	-0.95	55.92	74	-18.08	peak
7236	45.37	-0.95	44.42	54	-9.58	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	64.59	-3.64	60.95	74	-13.05	peak
4824	48.79	-3.64	45.15	54	-8.85	AVG
7236	58.72	-0.95	57.77	74	-16.23	peak
7236	44.44	-0.95	43.49	54	-10.51	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	63.89	-3.51	60.38	74	-13.62	peak
4874	50.75	-3.51	47.24	54	-6.76	AVG
7311	58.00	-0.82	57.18	74	-16.82	peak
7311	45.85	-0.82	45.03	54	-8.97	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)	
4874	64.60	-3.51	61.09	74	-12.91	peak
4874	47.06	-3.51	43.55	54	-10.45	AVG
7311	58.93	-0.82	58.11	74	-15.89	peak
7311	45.02	-0.82	44.20	54	-9.80	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	63.20	-3.43	59.77	74	-14.23	peak
4924	46.36	-3.43	42.93	54	-11.07	AVG
7386	57.75	-0.75	57.00	74	-17.00	peak
7386	44.46	-0.75	43.71	54	-10.29	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	64.81	-3.43	61.38	74	-12.62	peak
4924	45.90	-3.43	42.47	54	-11.53	AVG
7386	56.75	-0.75	56.00	74	-18.00	peak
7386	43.10	-0.75	42.35	54	-11.65	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	64.37	-3.64	60.73	74	-13.27	peak
4824	48.18	-3.64	44.54	54	-9.46	AVG
7236	57.30	-0.95	56.35	74	-17.65	peak
7236	45.82	-0.95	44.87	54	-9.13	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	63.21	-3.64	59.57	74	-14.43	peak
4824	47.19	-3.64	43.55	54	-10.45	AVG
7236	60.60	-0.95	59.65	74	-14.35	peak
7236	44.37	-0.95	43.42	54	-10.58	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	63.43	-3.51	59.92	74	-14.08	peak
4874	48.25	-3.51	44.74	54	-9.26	AVG
7311	59.77	-0.82	58.95	74	-15.05	peak
7311	45.43	-0.82	44.61	54	-9.39	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	64.27	-3.51	60.76	74	-13.24	peak
4874	48.14	-3.51	44.63	54	-9.37	AVG
7311	56.34	-0.82	55.52	74	-18.48	peak
7311	41.54	-0.82	40.72	54	-13.28	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	62.66	-3.43	59.23	74	-14.77	peak
4924	49.84	-3.43	46.41	54	-7.59	AVG
7386	56.82	-0.75	56.07	74	-17.93	peak
7386	43.79	-0.75	43.04	54	-10.96	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	62.61	-3.43	59.18	74	-14.82	peak
4924	46.85	-3.43	43.42	54	-10.58	AVG
7386	56.64	-0.75	55.89	74	-18.11	peak
7386	42.08	-0.75	41.33	54	-12.67	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	65.27	-3.64	61.63	74	-12.37	peak
4824	49.12	-3.64	45.48	54	-8.52	AVG
7236	57.54	-0.95	56.59	74	-17.41	peak
7236	44.50	-0.95	43.55	54	-10.45	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	66.08	-3.64	62.44	74	-11.56	peak
4824	46.73	-3.64	43.09	54	-10.91	AVG
7236	57.68	-0.95	56.73	74	-17.27	peak
7236	44.26	-0.95	43.31	54	-10.69	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	64.46	-3.51	60.95	74.00	-13.05	peak
4874.00	49.15	-3.51	45.64	54.00	-8.36	AVG
7311.00	56.94	-0.82	56.12	74.00	-17.88	peak
7311.00	42.91	-0.82	42.09	54.00	-11.91	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	63.61	-3.51	60.10	74.00	-13.90	peak
4874.00	48.41	-3.51	44.90	54.00	-9.10	AVG
7311.00	56.71	-0.82	55.89	74.00	-18.11	peak
7311.00	42.01	-0.82	41.19	54.00	-12.81	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	63.83	-3.43	60.40	74	-13.60	peak
4924	45.67	-3.43	42.24	54	-11.76	AVG
7386	58.09	-0.75	57.34	74	-16.66	peak
7386	42.00	-0.75	41.25	54	-12.75	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	62.86	-3.43	59.43	74	-14.57	peak
4924	45.07	-3.43	41.64	54	-12.36	AVG
7386	57.53	-0.75	56.78	74	-17.22	peak
7386	42.87	-0.75	42.12	54	-11.88	AVG

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

LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	65.02	-3.63	61.39	74	-12.61	peak
4844	49.55	-3.63	45.92	54	-8.08	AVG
7266	58.85	-0.94	57.91	74	-16.09	peak
7266	45.93	-0.94	44.99	54	-9.01	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)	
4844	65.82	-3.63	62.19	74	-11.81	peak
4844	48.10	-3.63	44.47	54	-9.53	AVG
7266	58.50	-0.94	57.56	74	-16.44	peak
7266	44.23	-0.94	43.29	54	-10.71	AVG

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

MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	64.22	-3.51	60.71	74	-13.29	peak
4874	49.74	-3.51	46.23	54	-7.77	AVG
7311	59.09	-0.82	58.27	74	-15.73	peak
7311	45.35	-0.82	44.53	54	-9.47	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	62.24	-3.51	58.73	74	-15.27	peak
4874	46.46	-3.51	42.95	54	-11.05	AVG
7311	56.66	-0.82	55.84	74	-18.16	peak
7311	43.37	-0.82	42.55	54	-11.45	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	64.30	-3.43	60.87	74	-13.13	peak
4904	48.53	-3.43	45.10	54	-8.90	AVG
7356	57.20	-0.75	56.45	74	-17.55	peak
7356	41.13	-0.75	40.38	54	-13.62	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)	
4904	63.40	-3.43	59.97	74	-14.03	peak
4904	45.63	-3.43	42.20	54	-11.80	AVG
7356	58.62	-0.75	57.87	74	-16.13	peak
7356	43.35	-0.75	42.60	54	-11.40	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.

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	57.30	-5.81	51.49	74	-22.51	peak
2390	/	-5.81	/	54	/	AVG
2399	65.00	-5.84	59.16	74	-14.84	peak
2399	48.21	-5.84	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)	
2390	57.51	-5.81	51.70	74	-22.30	peak
2390	/	-5.81	/	54	/	AVG
2399	63.15	-5.84	57.31	74	-16.69	peak
2399	46.82	-5.84	40.98	54	-13.02	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	56.17	-5.65	50.52	74	-23.48	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	56.22	-5.65	50.57	74	-23.43	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	59.46	-5.81	53.65	74	-20.35	peak
2390	/	-5.81	/	54	/	AVG
2399	62.08	-5.84	56.24	74	-17.76	peak
2399	47.54	-5.84	41.70	54	-12.30	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	56.50	-5.81	50.69	74	-23.31	peak
2390	/	-5.81	/	54	/	AVG
2399	62.28	-5.84	56.44	74	-17.56	peak
2399	46.86	-5.84	41.02	54	-12.98	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	56.87	-5.65	51.22	74	-22.78	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	57.54	-5.65	51.89	74	-22.11	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	56.48	-5.81	50.67	74	-23.33	
2390	/	-5.81	/	54	/	AVG
2399	62.18	-5.84	56.34	74	-17.66	peak
2399	46.89	-5.84	41.05	54	-12.95	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	57.41	-5.81	51.60	74	-22.40	
2390	/	-5.81	/	54	/	AVG
2399	60.50	-5.84	54.66	74	-19.34	peak
2399	46.36	-5.84	40.52	54	-13.48	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	56.19	-5.65	50.54	74	-23.46	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	55.81	-5.65	50.16	74	-23.84	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/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2390	58.32	-5.81	52.51	74	-21.49	
2390	/	-5.81	/	54	/	AVG
2399	63.52	-5.84	57.68	74	-16.32	peak
2399	46.50	-5.84	40.66	54	-13.34	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	58.77	-5.81	52.96	74	-21.04	
2390	/	-5.81	/	54	/	AVG
2399	60.28	-5.84	54.44	74	-19.56	peak
2399	46.44	-5.84	40.60	54	-13.40	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Operation Mode: TX CH High (2452MHz)

Horizontal

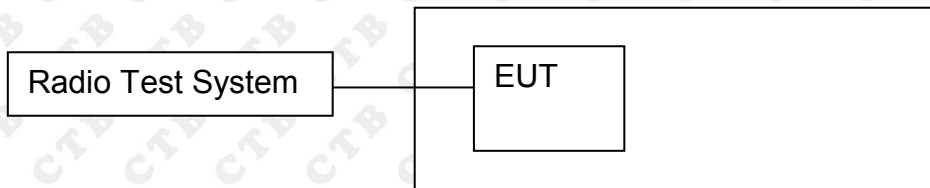
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	58.26	-5.65	52.61	74	-21.39	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	57.88	-5.65	52.23	74	-21.77	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.						

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

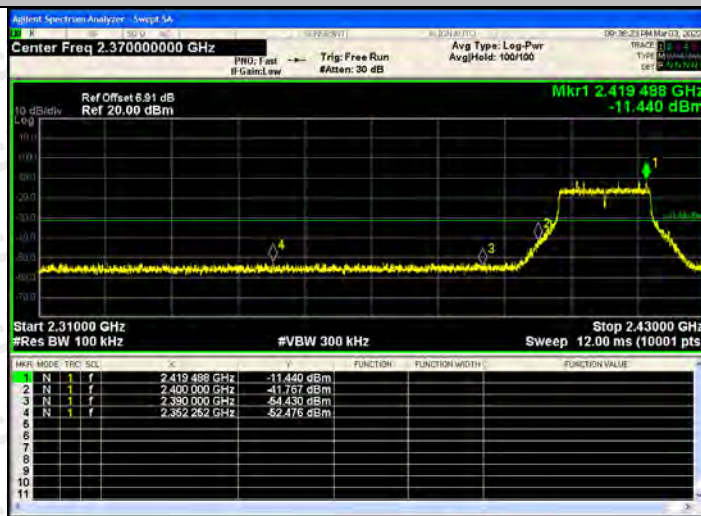
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
Below 30MHz:
RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold
Above 30MHz:
RBW = 100KHz, VBW = 300KHz, Sweep = auto
Detector function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

8.4 Test Result



BAND EDGE Graphs

802.11g/LCH

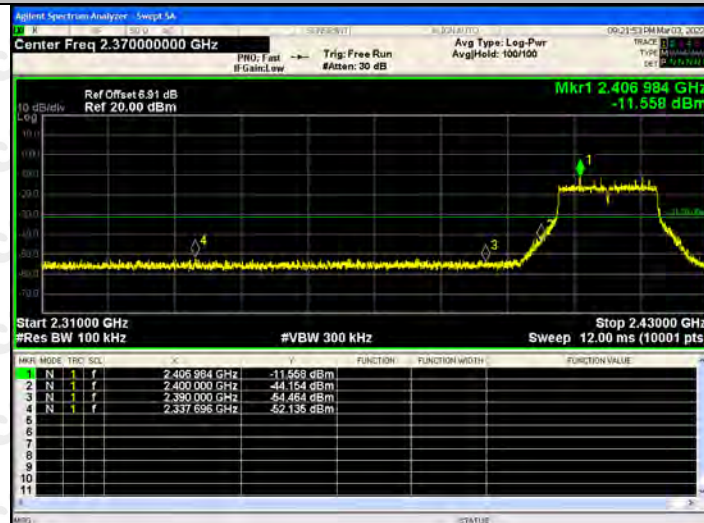


802.11g/HCH

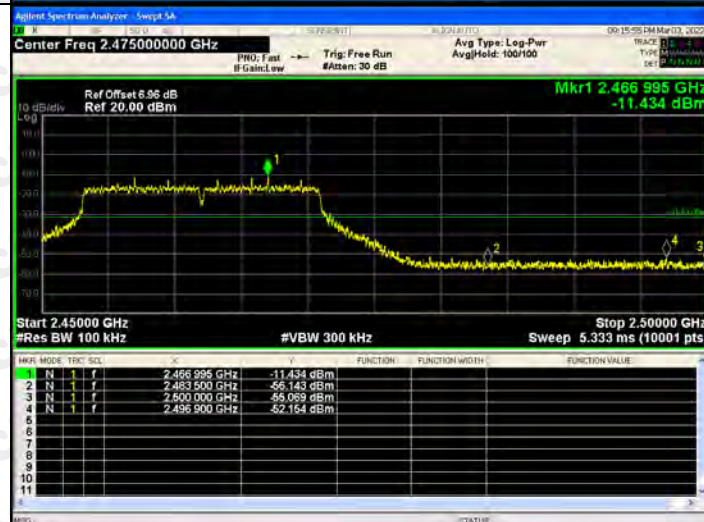


BAND EDGE Graphs

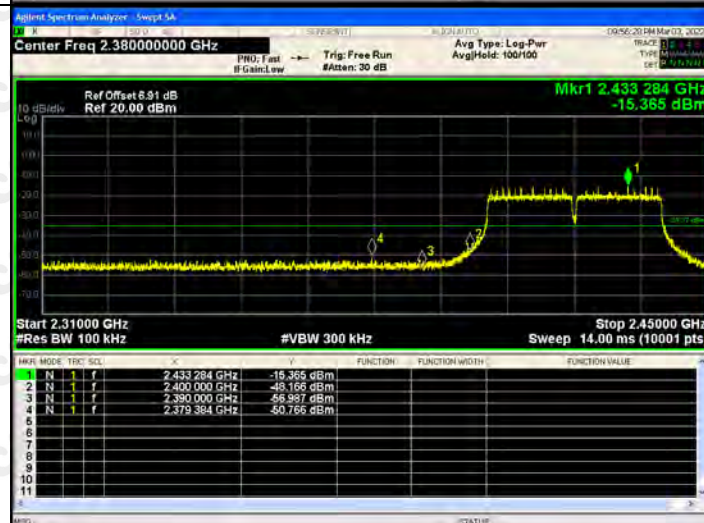
802.11n(HT20)/L
CH



802.11n(HT20)/H
CH



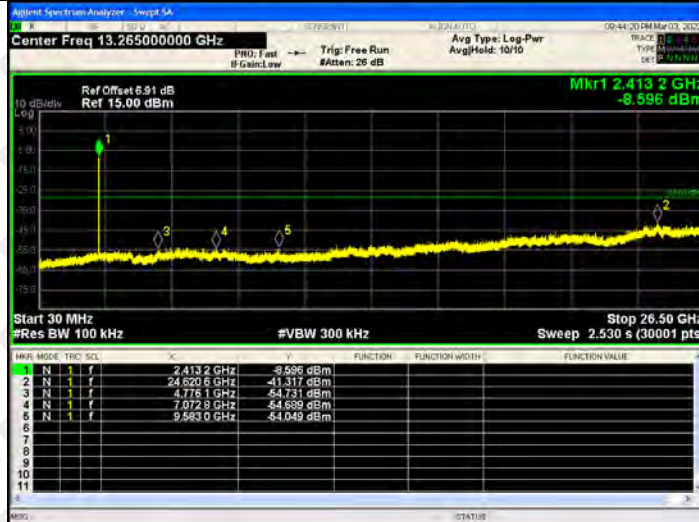
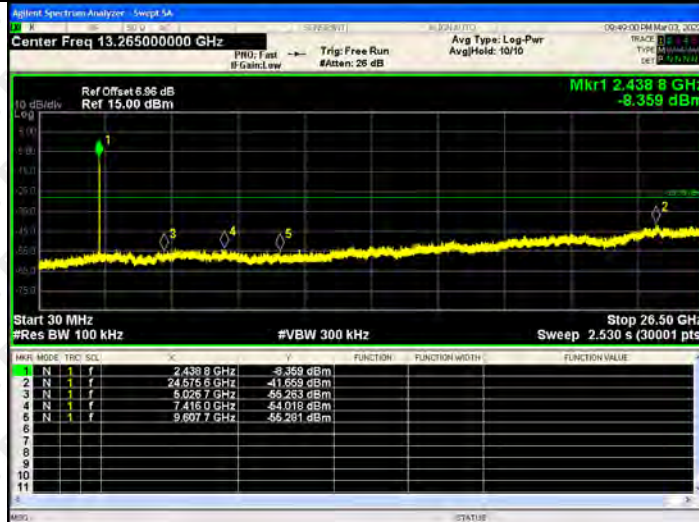
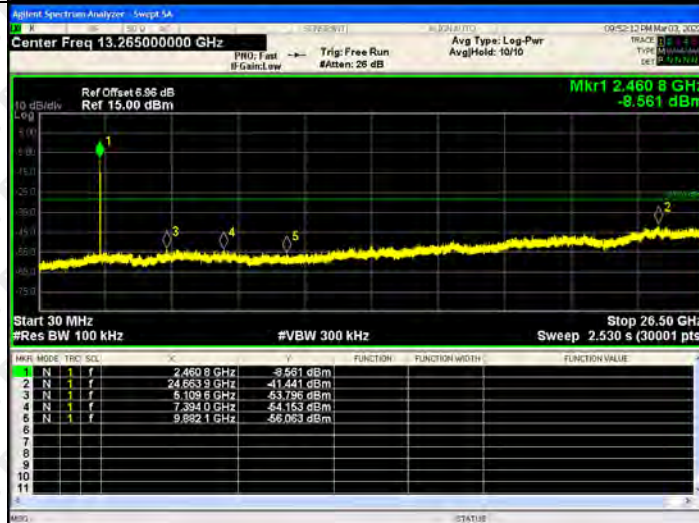
802.11n(HT40)/L
CH



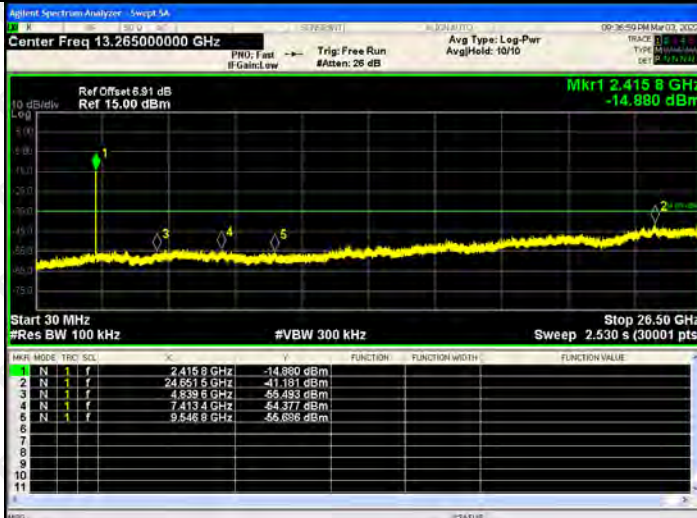
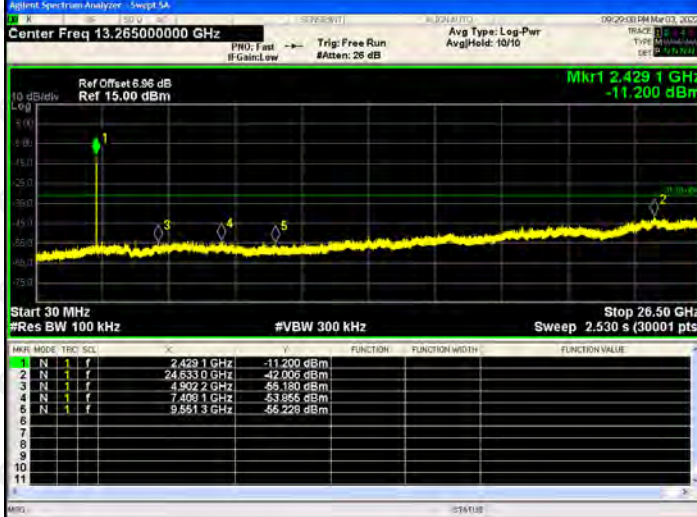
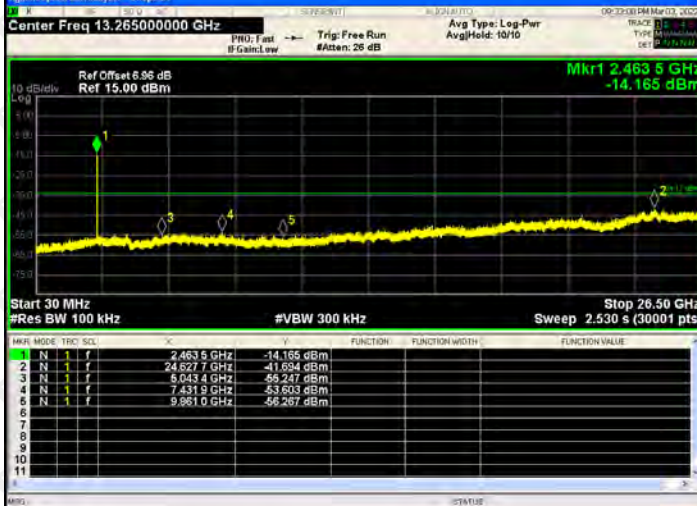
802.11n(HT40)/H
CH



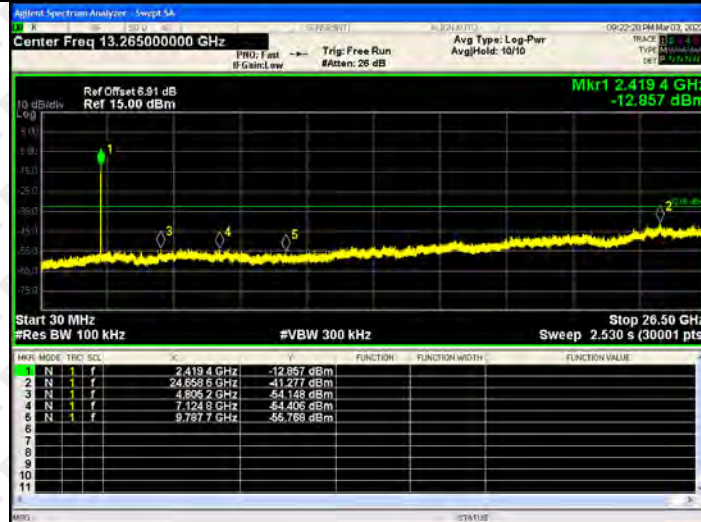
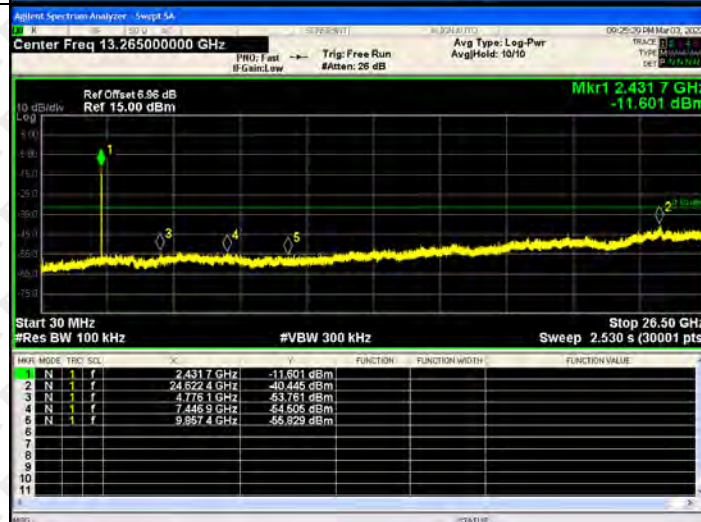
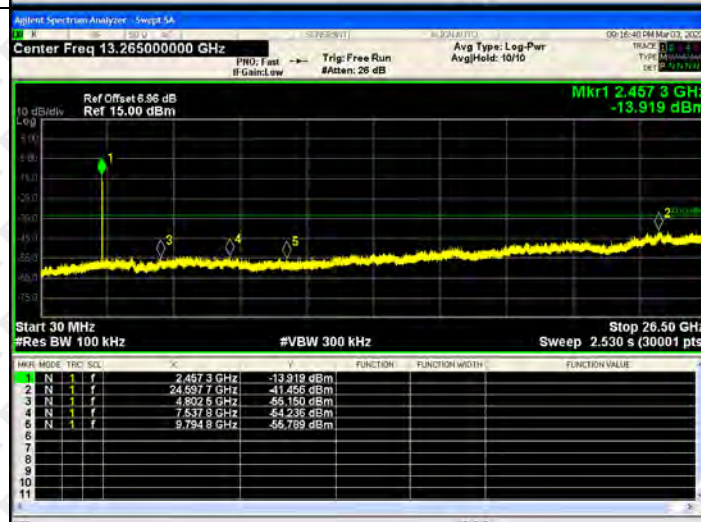
RF Conducted Spurious Emissions Graphs

802.11b
/LCH

802.11b
/MCH

802.11b
/HCH


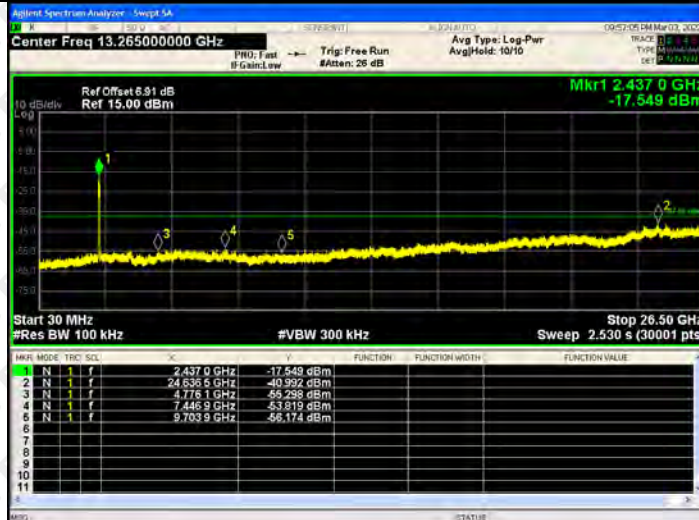
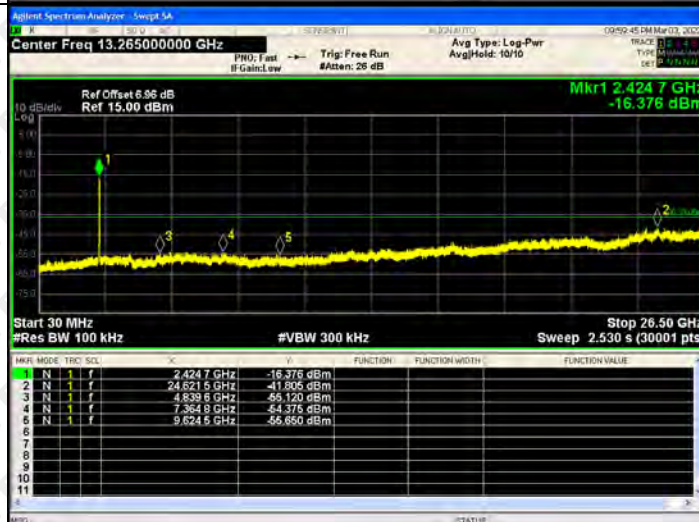
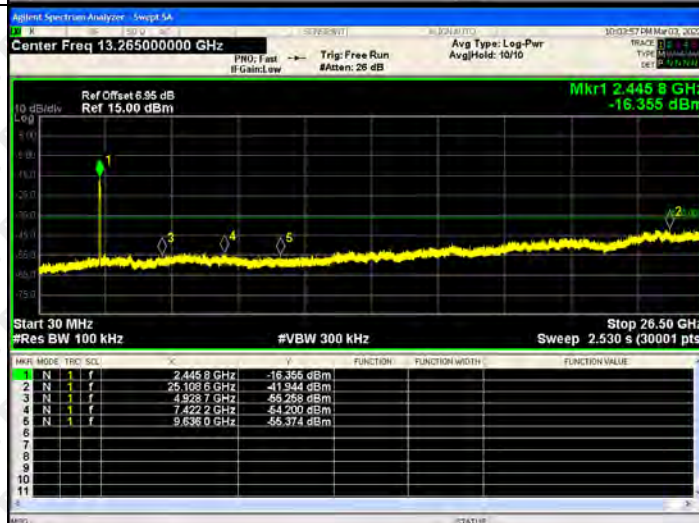
RF Conducted Spurious Emissions Graphs

802.11g /LCH	 <table><thead><tr><th>N</th><th>Freq (GHz)</th><th>Power (dBm)</th></tr></thead><tbody><tr><td>1</td><td>2.4158</td><td>-14.880</td></tr><tr><td>2</td><td>24.6515</td><td>-41.181</td></tr><tr><td>3</td><td>4.6395</td><td>-55.493</td></tr><tr><td>4</td><td>7.4134</td><td>-54.377</td></tr><tr><td>5</td><td>9.5468</td><td>-56.896</td></tr></tbody></table>	N	Freq (GHz)	Power (dBm)	1	2.4158	-14.880	2	24.6515	-41.181	3	4.6395	-55.493	4	7.4134	-54.377	5	9.5468	-56.896
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802.11g /HCH	 <table><thead><tr><th>N</th><th>Freq (GHz)</th><th>Power (dBm)</th></tr></thead><tbody><tr><td>1</td><td>2.4635</td><td>-14.165</td></tr><tr><td>2</td><td>24.6277</td><td>-41.694</td></tr><tr><td>3</td><td>5.0434</td><td>-55.247</td></tr><tr><td>4</td><td>7.4319</td><td>-53.603</td></tr><tr><td>5</td><td>9.9610</td><td>-56.267</td></tr></tbody></table>	N	Freq (GHz)	Power (dBm)	1	2.4635	-14.165	2	24.6277	-41.694	3	5.0434	-55.247	4	7.4319	-53.603	5	9.9610	-56.267
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5	9.9610	-56.267																	

RF Conducted Spurious Emissions Graphs

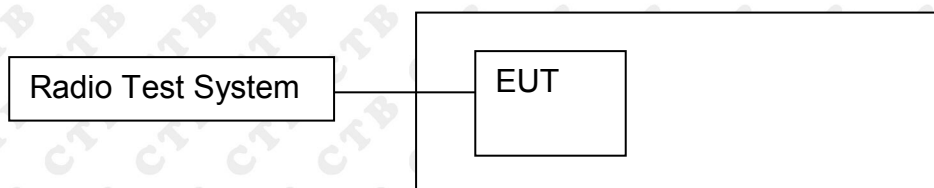
802.11n
(HT20)/
LCH

802.11
n(HT20)
/MCH

802.11
n(HT20)
/HCH


RF Conducted Spurious Emissions Graphs

802.11
n(HT40)
/LCH

802.11
n(HT40)
/MCH

802.11
n(HT40)
/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

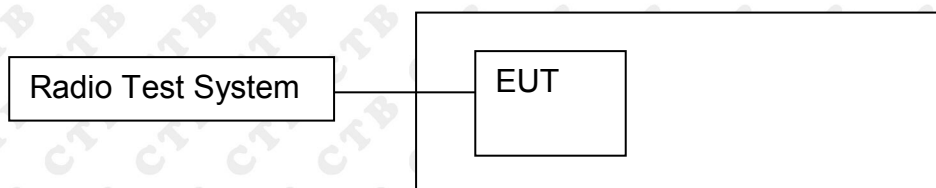
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak. Channel power function is used
3. Keep the EUT in transmitting at lowest, middle and highest channel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

9.4 Test Result

Mode	Channel.	Peak Output Power [dBm]	Limit[dBm]	Verdict
802.11b	LCH	7.14	30	PASS
	MCH	7.67	30	PASS
	HCH	7.85	30	PASS
802.11g	LCH	6.33	30	PASS
	MCH	6.58	30	PASS
	HCH	6.63	30	PASS
802.11n(HT20)	LCH	6.43	30	PASS
	MCH	6.88	30	PASS
	HCH	6.26	30	PASS
802.11n(HT40)	LCH	5.62	30	PASS
	MCH	5.85	30	PASS
	HCH	5.91	30	PASS

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

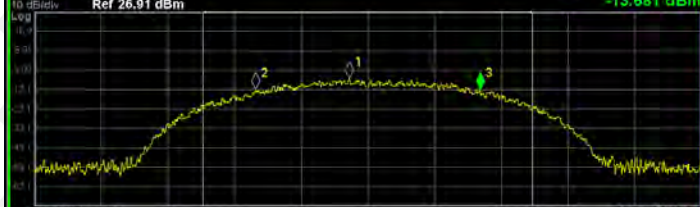
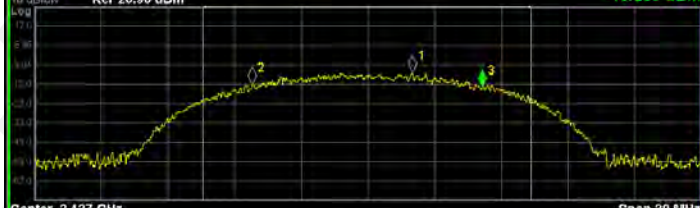
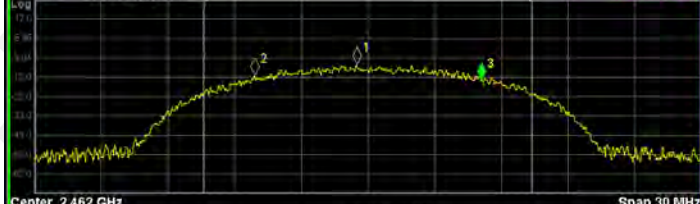
10.3 Test procedure

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	10.092	500	PASS
	MCH	10.334	500	PASS
	HCH	10.159	500	PASS
802.11g	LCH	16.364	500	PASS
	MCH	16.351	500	PASS
	HCH	16.352	500	PASS
802.11n(HT20)	LCH	17.579	500	PASS
	MCH	17.592	500	PASS
	HCH	17.35	500	PASS
802.11n(HT40)	LCH	36.258	500	PASS
	MCH	36.37	500	PASS
	HCH	36.335	500	PASS

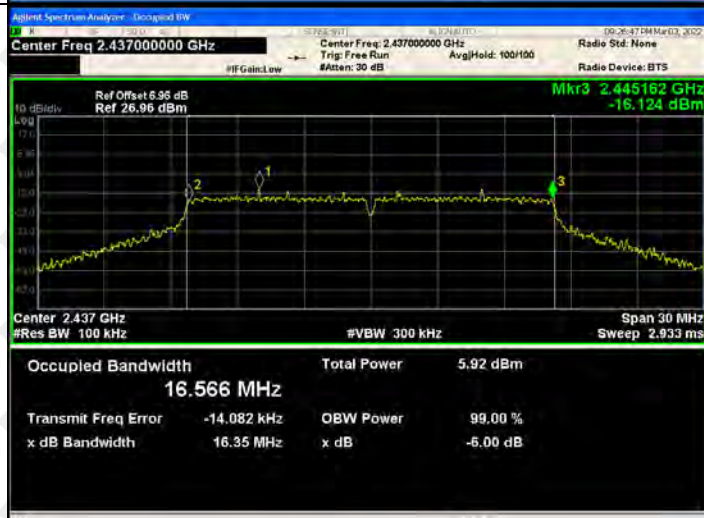
Test Graph:

Graphs																			
802.11b /LCH	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 6.91 dB Ref 26.91 dBm Mkr3 2.417048 GHz -13.681 dBm  Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms <table><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>9.39 dBm</td></tr><tr><td>14.763 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>2.570 kHz</td><td></td><td></td></tr><tr><td>x dB Bandwidth</td><td>x dB</td><td>-5.00 dB</td></tr><tr><td>10.09 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	9.39 dBm	14.763 MHz			Transmit Freq Error	OBW Power	99.00 %	2.570 kHz			x dB Bandwidth	x dB	-5.00 dB	10.09 MHz		
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10.09 MHz																			
802.11b /MCH	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 6.96 dB Ref 26.96 dBm Mkr3 2.442143 GHz -15.269 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms <table><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>9.89 dBm</td></tr><tr><td>14.686 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>-24.500 kHz</td><td></td><td></td></tr><tr><td>x dB Bandwidth</td><td>x dB</td><td>-5.00 dB</td></tr><tr><td>10.33 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	9.89 dBm	14.686 MHz			Transmit Freq Error	OBW Power	99.00 %	-24.500 kHz			x dB Bandwidth	x dB	-5.00 dB	10.33 MHz		
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10.33 MHz																			
802.11b/HCH	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 6.96 dB Ref 26.96 dBm Mkr3 2.467087 GHz -15.030 dBm  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms <table><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>10.1 dBm</td></tr><tr><td>14.683 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>7.752 kHz</td><td></td><td></td></tr><tr><td>x dB Bandwidth</td><td>x dB</td><td>-5.00 dB</td></tr><tr><td>10.16 MHz</td><td></td><td></td></tr></table>	Occupied Bandwidth	Total Power	10.1 dBm	14.683 MHz			Transmit Freq Error	OBW Power	99.00 %	7.752 kHz			x dB Bandwidth	x dB	-5.00 dB	10.16 MHz		
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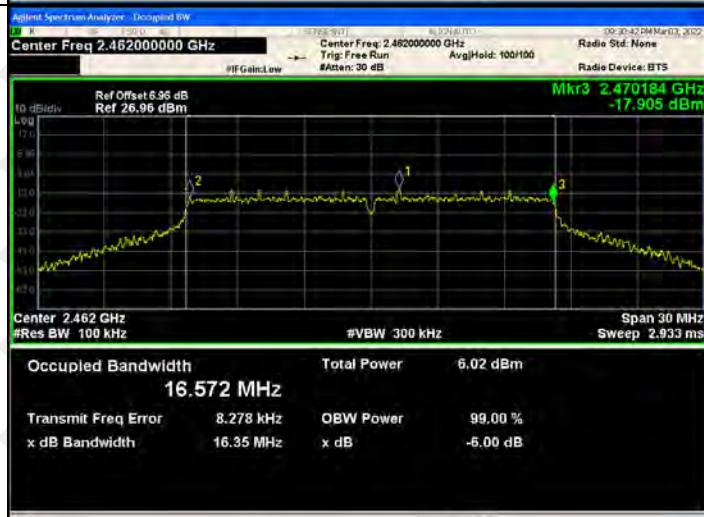
802.11g/LCH

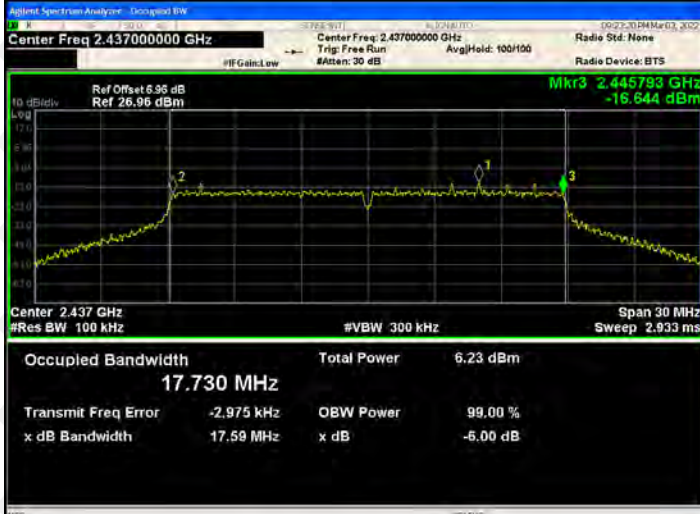
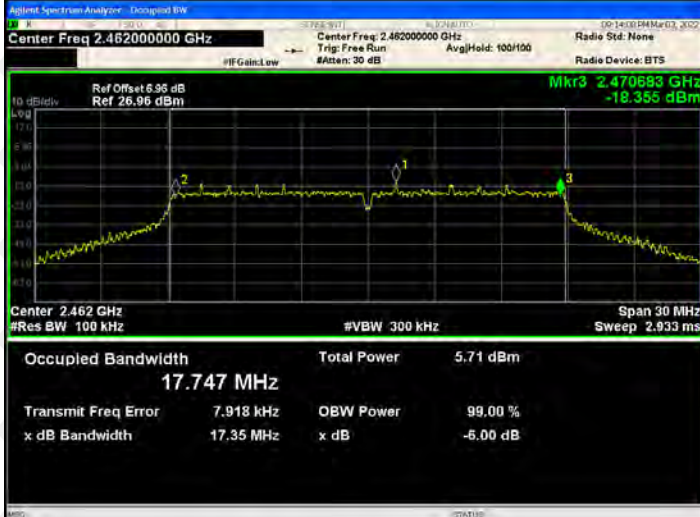


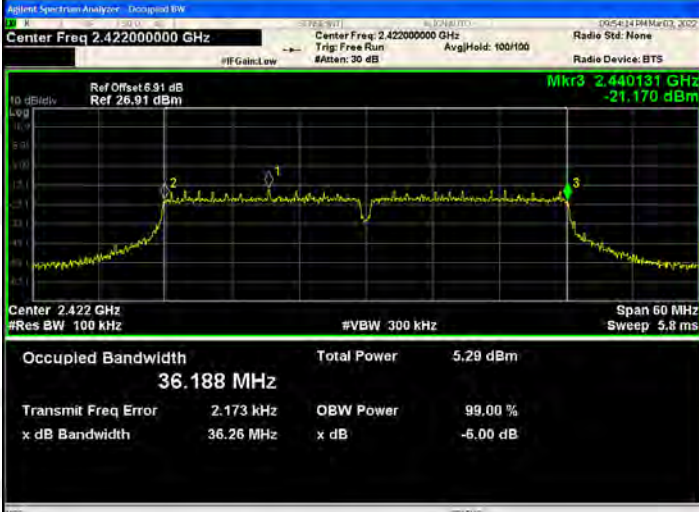
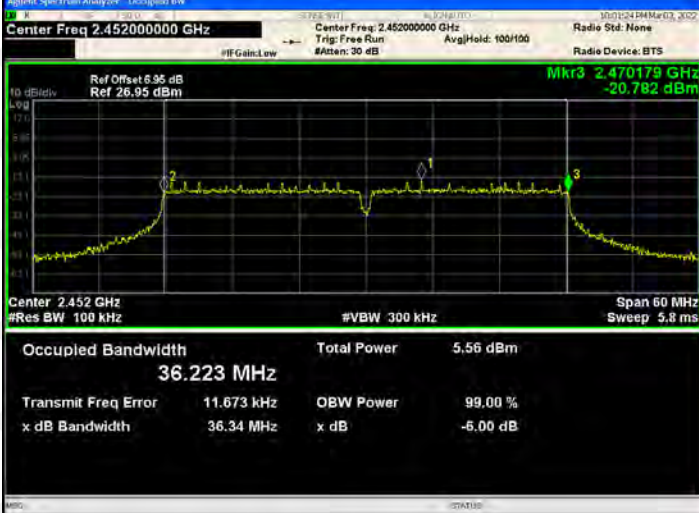
802.11g/MCH



802.11g/HCH

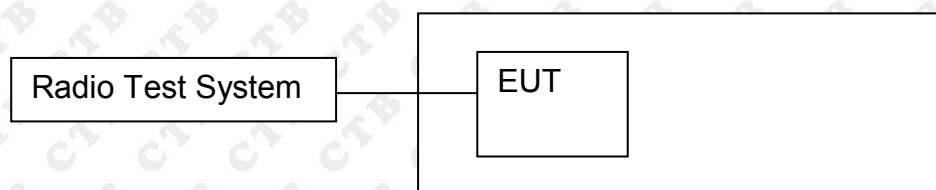


802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.412000000 GHz Ref Offset: 6.91 dB Ref: 26.91 dBm Mkr3: 2.420801 GHz -16.789 dBm Center: 2.412 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms <table><tr><td>Occupied Bandwidth</td><td colspan="3">17.738 MHz</td></tr><tr><td>Total Power</td><td colspan="3">5.82 dBm</td></tr><tr><td>Transmit Freq Error</td><td>11.397 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>17.58 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	17.738 MHz			Total Power	5.82 dBm			Transmit Freq Error	11.397 kHz	OBW Power	99.00 %	x dB Bandwidth	17.58 MHz	x dB	-6.00 dB
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802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.437000000 GHz Ref Offset: 6.96 dB Ref: 26.96 dBm Mkr3: 2.445793 GHz -16.644 dBm Center: 2.437 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms <table><tr><td>Occupied Bandwidth</td><td colspan="3">17.730 MHz</td></tr><tr><td>Total Power</td><td colspan="3">6.23 dBm</td></tr><tr><td>Transmit Freq Error</td><td>-2.975 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>17.59 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	17.730 MHz			Total Power	6.23 dBm			Transmit Freq Error	-2.975 kHz	OBW Power	99.00 %	x dB Bandwidth	17.59 MHz	x dB	-6.00 dB
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Transmit Freq Error	-2.975 kHz	OBW Power	99.00 %														
x dB Bandwidth	17.59 MHz	x dB	-6.00 dB														
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.462000000 GHz Ref Offset: 6.96 dB Ref: 26.96 dBm Mkr3: 2.470683 GHz -16.355 dBm Center: 2.462 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms <table><tr><td>Occupied Bandwidth</td><td colspan="3">17.747 MHz</td></tr><tr><td>Total Power</td><td colspan="3">5.71 dBm</td></tr><tr><td>Transmit Freq Error</td><td>7.918 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>17.35 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	17.747 MHz			Total Power	5.71 dBm			Transmit Freq Error	7.918 kHz	OBW Power	99.00 %	x dB Bandwidth	17.35 MHz	x dB	-6.00 dB
Occupied Bandwidth	17.747 MHz																
Total Power	5.71 dBm																
Transmit Freq Error	7.918 kHz	OBW Power	99.00 %														
x dB Bandwidth	17.35 MHz	x dB	-6.00 dB														

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.422000000 GHz Ref Offset: 6.91 dB Ref: 26.91 dBm Mkr3: 2.440131 GHz -21.170 dBm Center: 2.422 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 60 MHz Sweep: 5.0 ms <table><tr><td>Occupied Bandwidth</td><td>36.188 MHz</td><td>Total Power</td><td>5.29 dBm</td></tr><tr><td>Transmit Freq Error</td><td>2.173 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>36.26 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	36.188 MHz	Total Power	5.29 dBm	Transmit Freq Error	2.173 kHz	OBW Power	99.00 %	x dB Bandwidth	36.26 MHz	x dB	-6.00 dB
Occupied Bandwidth	36.188 MHz	Total Power	5.29 dBm										
Transmit Freq Error	2.173 kHz	OBW Power	99.00 %										
x dB Bandwidth	36.26 MHz	x dB	-6.00 dB										
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.437000000 GHz Ref Offset: 6.96 dB Ref: 26.96 dBm Mkr3: 2.455194 GHz -20.736 dBm Center: 2.437 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 60 MHz Sweep: 5.0 ms <table><tr><td>Occupied Bandwidth</td><td>36.214 MHz</td><td>Total Power</td><td>5.49 dBm</td></tr><tr><td>Transmit Freq Error</td><td>8.734 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>36.37 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	36.214 MHz	Total Power	5.49 dBm	Transmit Freq Error	8.734 kHz	OBW Power	99.00 %	x dB Bandwidth	36.37 MHz	x dB	-6.00 dB
Occupied Bandwidth	36.214 MHz	Total Power	5.49 dBm										
Transmit Freq Error	8.734 kHz	OBW Power	99.00 %										
x dB Bandwidth	36.37 MHz	x dB	-6.00 dB										
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.452000000 GHz Ref Offset: 6.95 dB Ref: 26.95 dBm Mkr3: 2.470179 GHz -20.782 dBm Center: 2.452 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 60 MHz Sweep: 5.0 ms <table><tr><td>Occupied Bandwidth</td><td>36.223 MHz</td><td>Total Power</td><td>5.56 dBm</td></tr><tr><td>Transmit Freq Error</td><td>11.673 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>36.34 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	36.223 MHz	Total Power	5.56 dBm	Transmit Freq Error	11.673 kHz	OBW Power	99.00 %	x dB Bandwidth	36.34 MHz	x dB	-6.00 dB
Occupied Bandwidth	36.223 MHz	Total Power	5.56 dBm										
Transmit Freq Error	11.673 kHz	OBW Power	99.00 %										
x dB Bandwidth	36.34 MHz	x dB	-6.00 dB										

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 /3KHz]	Limit(8 dBm (in any 3KHz))	Verdict
802.11b	LCH	-21.3	8	PASS
	MCH	-21.266	8	PASS
	HCH	-21.316	8	PASS
802.11g	LCH	-26.113	8	PASS
	MCH	-25.992	8	PASS
	HCH	-25.662	8	PASS
802.11n(H T20)	LCH	-26.497	8	PASS
	MCH	-25.969	8	PASS
	HCH	-25.374	8	PASS
802.11n(H T40)	LCH	-30.524	8	PASS
	MCH	-29.88	8	PASS
	HCH	-29.796	8	PASS

Test Graph

Graphs

802.11b /LCH

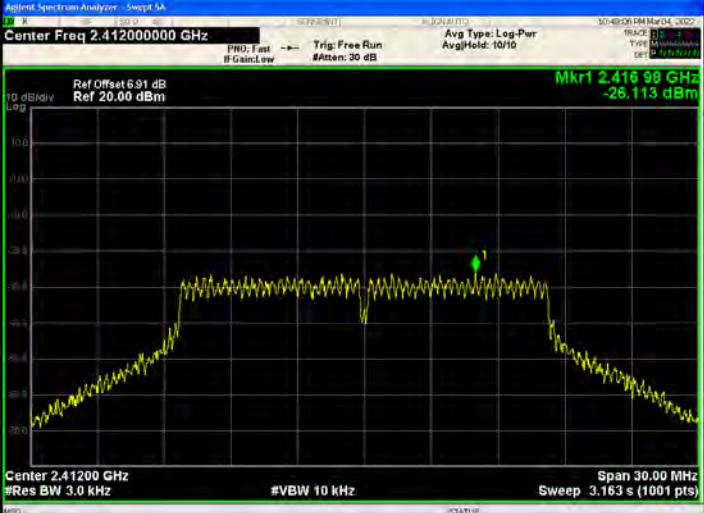


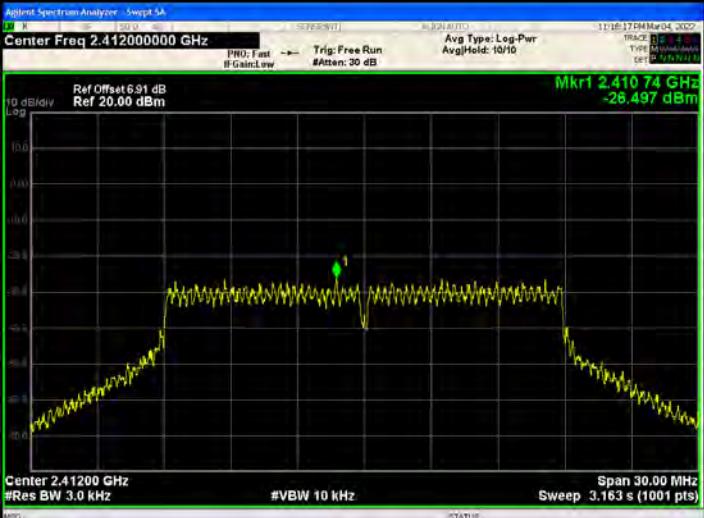
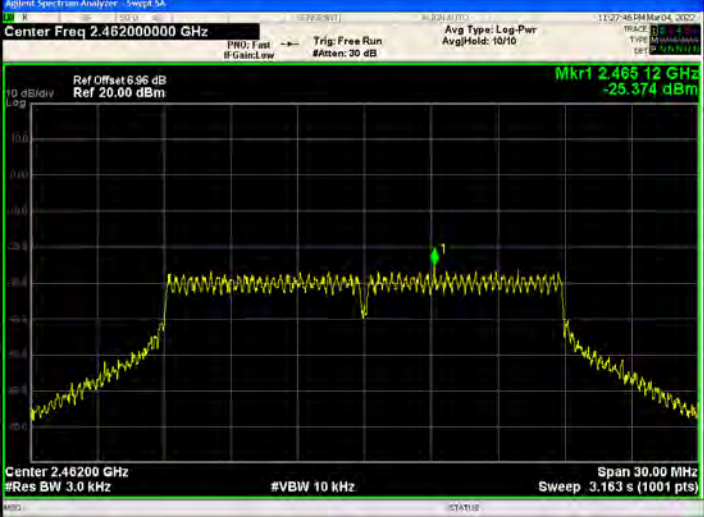
802.11b /MCH

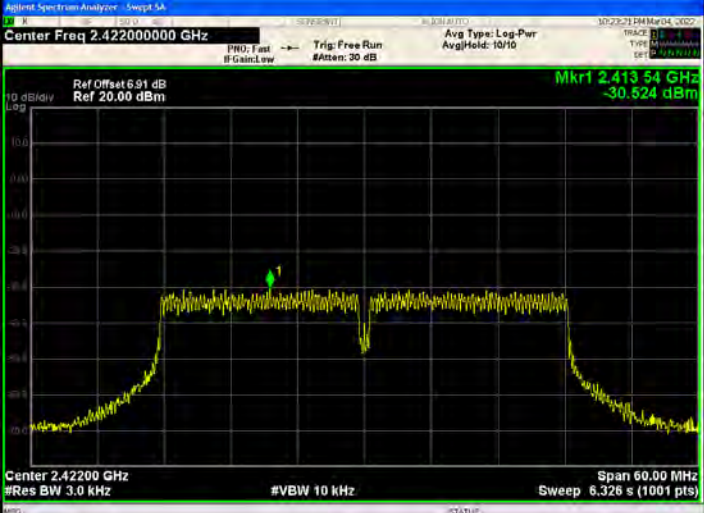
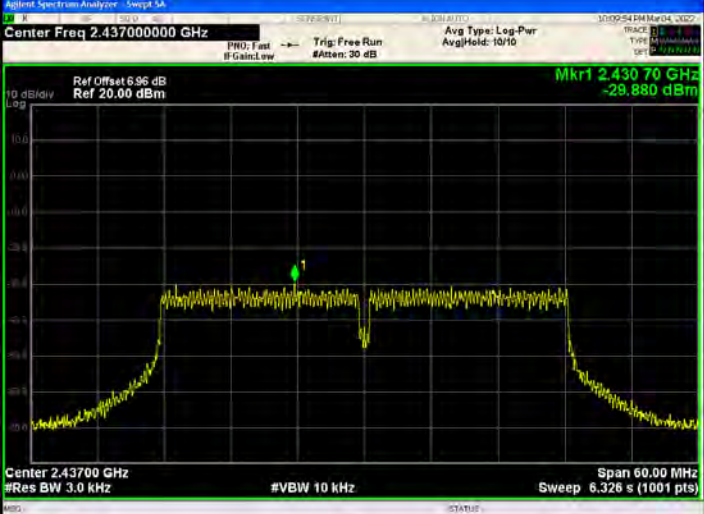
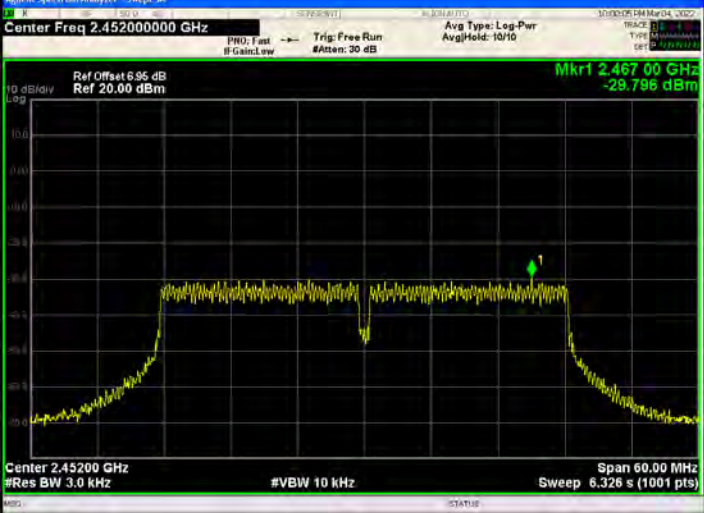


802.11b/HCH



802.11g/LCH	
802.11g/MCH	
802.11g/HCH	

802.11n(HT20)/LC H	
802.11n(HT20)/MC H	
802.11n(HT20)/HC H	

802.11n(HT40)/LC H	
802.11n(HT40)/MC H	
802.11n(HT40)/HC H	

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

13. EUT PHOTOGRAPHS

EUT Photo 1

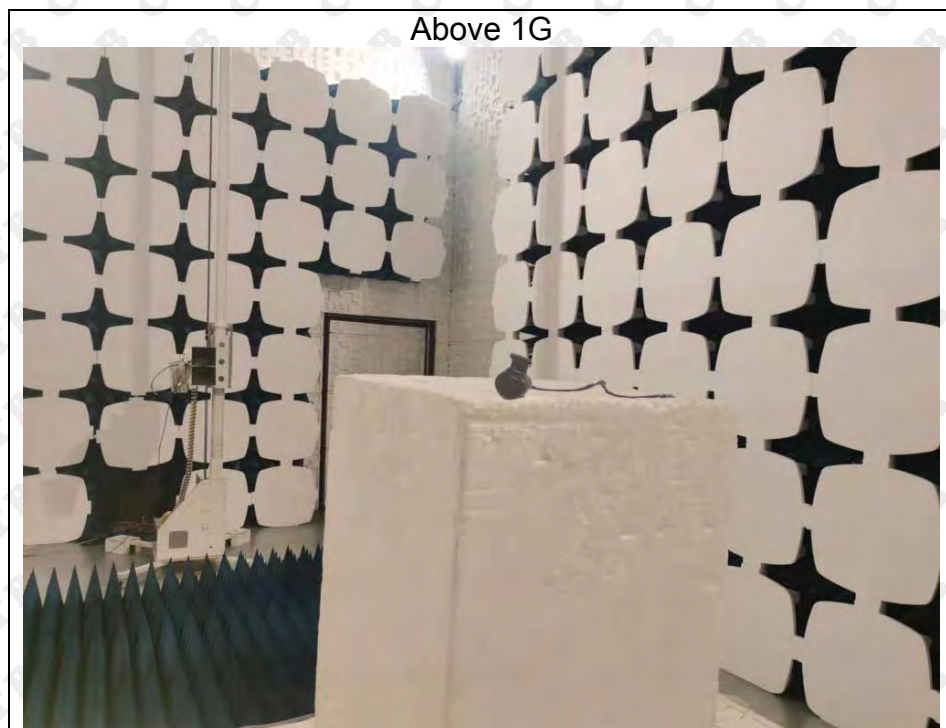
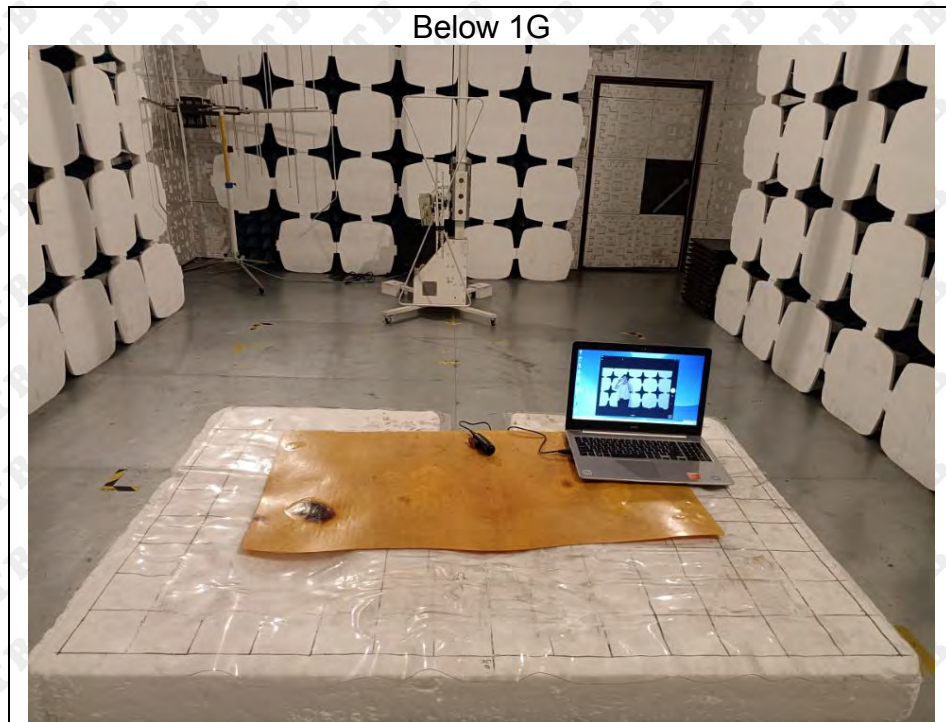


EUT Photo 2



14. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission



Conducted emission



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