



TEST REPORT

Product Name: Repeater
FCC ID: 2ANZR-0025
Trademark: N/A
Model Number: 0025, 0035, 0045, 0015, 0005
Prepared For: AUSEK Limited
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Sample Received Date: Mar. 14, 2024
Sample tested Date: Mar. 14, 2024 to Mar. 26, 2024
Issue Date: Mar. 26, 2024
Report No.: CTB240325055RFX
Test Standards: FCC Part15.247
ANSI C63.10:2013
Test Results: PASS
Remark: This is WIFI-2.4GHz band radio test report.

Compiled by:

Reviewed by:

Approved by:

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Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
CTB240325055RFX	Mar. 26, 2024	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)	/	PASS
RF Exposure Evaluation	47 CFR Part 15 Subpart C Section 15.247 (i)/1.1310/2.1091	KDB447498D01v06	PASS

Remark:

Test according to 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=±54.3Hz
Conducted output power Above 1G	U=±1.0dB
Conducted output power below 1G	U=±0.9dB
Power Spectral Density , Conduction	U=±1.0dB
Conduction spurious emissions	U=±2.8dB
Out of band emission	U=±54Hz
3m chamber Radiated spurious emission(9KHz-30MHz)	U=±4.8dB
3m chamber Radiated spurious emission(30MHz-1GHz)	U=±4.3dB
3m chamber Radiated spurious emission(1GHz-18GHz)	U=±4.5dB
3m chamber Radiated spurious emission(1GHz-40GHz)	U=±4.8dB
humidity uncertainty	U=±5.3%
Temperature uncertainty	U=±0.59°C
Supply voltages	U=±3%
Time	U=±5%
Conducted Emission (9KHz-30MHz)	3.2 dB

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	0025, 0035, 0045, 0015, 0005
Model Description:	All the model are the same circuit and RF module, only different for model name. Test sample model: 0025
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): 20.95dBm
Type of Modulation:	WiFi: DSSS, OFDM
Antenna installation:	WiFi: PCB antenna
Antenna Gain:	WiFi (2.4G): Ant1: 1.44dBi Ant2: 1.44dBi Ant3: 1.44dBi Ant4: 1.44dBi
Ratings:	AC100~240V; Output DC 5V/1A

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/TypeNo.	SeriesNo.	Note
1	Laptop	DELL	Vostro 5490	N/A	N/A

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.

ANT 1, ANT 2, ANT 3, ANT 4

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%.

Test mode	Rate
802.11b	11M
802.11g	54M
802.11/n20	65M
802.11/n40	65M

4.6 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	5V
Normal Temperature(°C)	23
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 1&2F., Building A, No. 26, Xinghe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, 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	Type No.	Serial No.	Firmware Version	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2024.07.05
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2024.07.05
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2024.07.05
4	Communication test set	R&S	CMW500	108058	V3.5.80	2024.07.05
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2024.07.05
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2024.07.05
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2024.07.05
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2024.07.06
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2024.07.05
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2024.07.06
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2024.07.06
12	BT&WI-FI Automatic test software	Microwave	MTS8000	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2024.10.30
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2024.07.05
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/
16	966 chamber	C.R.T.	966	/	/	2024.08.11
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2024.07.05
18	Amplifier	HP	8447E	2945A02747	/	2024.07.05
19	Amplifier	Agilent	8449B	3008A01838	/	2024.07.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2024.07.08

21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2024.07.08
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2024.07.08
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2024.10.30
26	Amplifier	AEROFLEX	Aeroflex	097	/	2024.07.05

Continuous disturbance

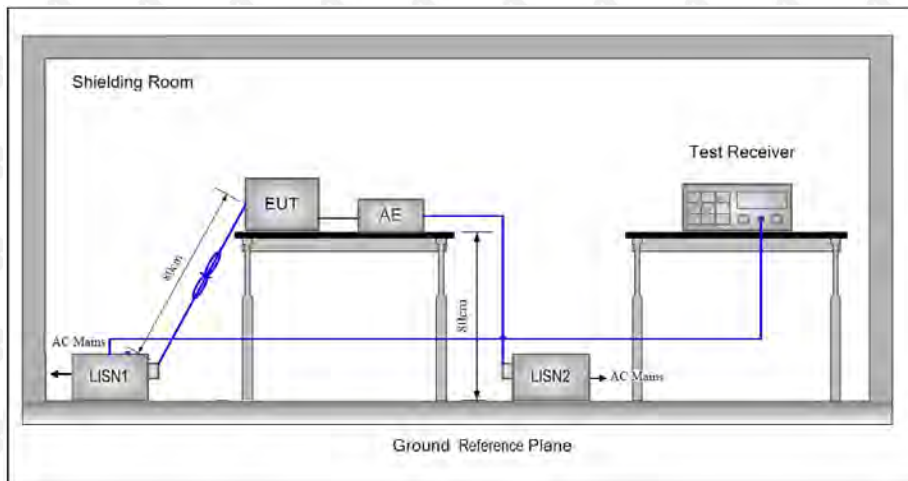
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Calibrated until
1	LISN	ROHDE&SCHWARZ	ESH3-Z5	100318	/	2024.07.05
2	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	/	2024.07.05
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428/003	V4.42.SP3	2024.07.05
4	Coaxial cable	ZDECL	Z302S-NJ-SM AJ-12M	18091905	/	2024.07.05
5	ISN	Schwarzbeck	NTFM8158	183	/	2024.07.05
6	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2024.07.05
7	Communication test set	R&S	CMW500	108058	V3.5.80	2024.07.05
8	EZ-EMC	Frad	EMC-con3A1.1	/	/	/

Radiated emission

No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2024.07.08
2	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2024.07.08
3	Amplifier	Agilent	8449B	3008A01838	/	2024.07.05
4	Amplifier	HP	8447E	2945A02747	/	2024.07.05
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428/003	V4.42.SP3	2024.07.05
6	Coaxial cable	ETS	RFC-SNS-100-N MS-80 NI	/	/	2024.07.05
7	Coaxial cable	ETS	RFC-SNS-100-N MS-20 NI	/	/	2024.07.05
8	Coaxial cable	ETS	RFC-SNS-100-S MS-20 NI	/	/	2024.07.05
9	Coaxial cable	ETS	RFC-NNS-100- NMS-300 NI	/	/	2024.07.05
10	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2024.07.05
11	Communication test set	R&S	CMW500	108058	V3.5.80	2024.07.05
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

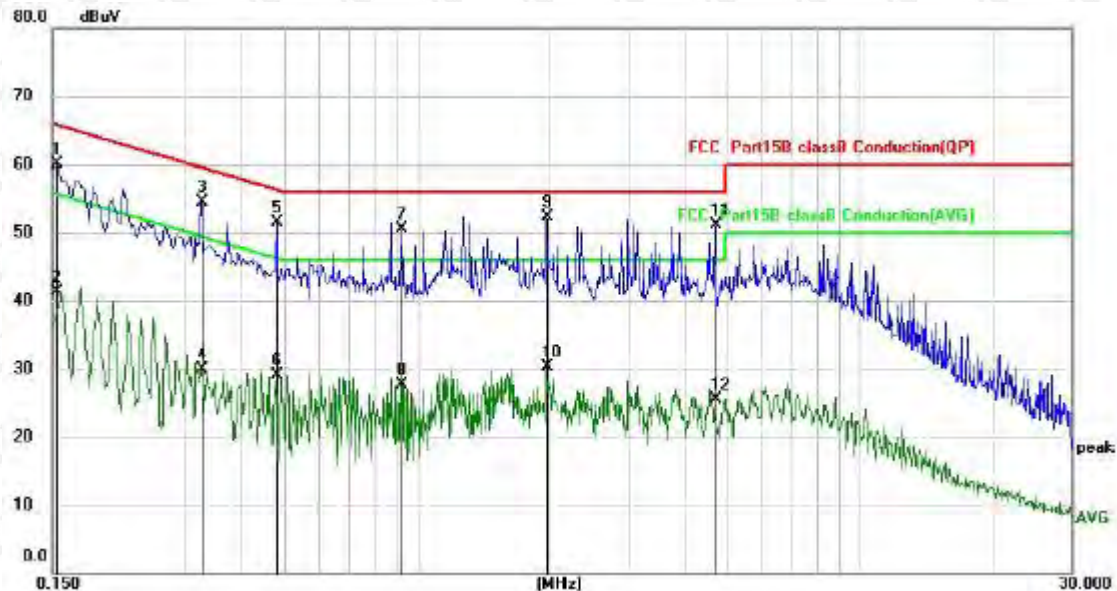
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a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

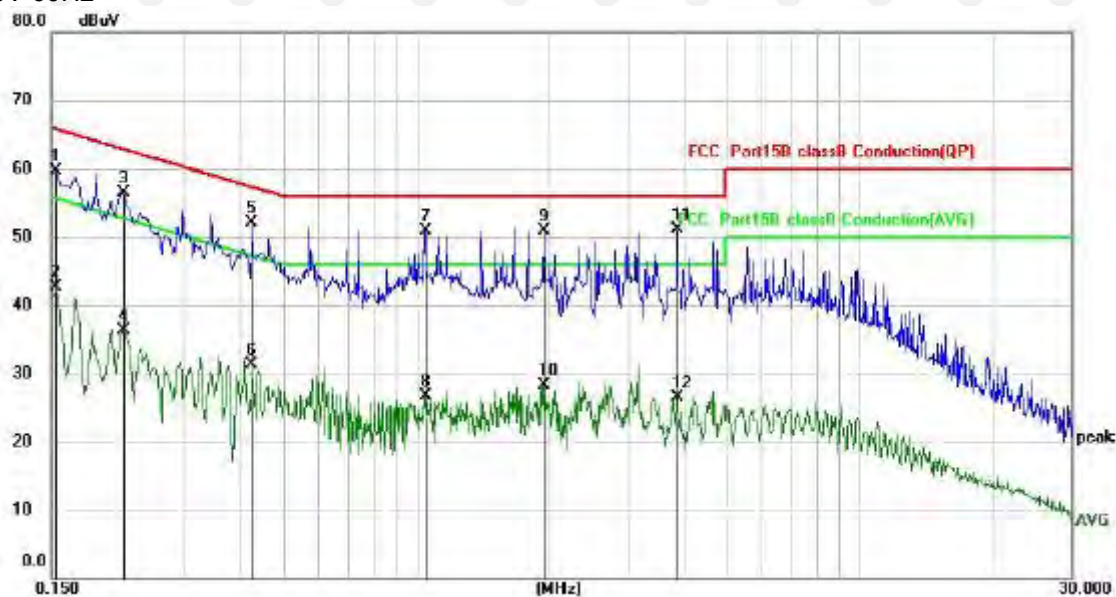
Test Specification: Line
AC 120V 60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1539	50.17	9.95	60.12	65.79	-5.67	QP
2		0.1539	31.29	9.95	41.24	55.79	-14.55	AVG
3		0.3260	44.52	9.97	54.49	59.55	-5.06	QP
4		0.3260	19.85	9.97	29.82	49.55	-19.73	AVG
5		0.4820	41.45	9.99	51.44	56.30	-4.86	QP
6		0.4820	19.13	9.99	29.12	46.30	-17.18	AVG
7		0.9220	40.54	10.01	50.55	56.00	-5.45	QP
8		0.9220	17.61	10.01	27.62	46.00	-18.38	AVG
9	*	1.9660	42.14	10.09	52.23	56.00	-3.77	QP
10		1.9660	20.30	10.09	30.39	46.00	-15.61	AVG
11		4.7019	40.67	10.35	51.02	56.00	-4.98	QP
12		4.7019	15.13	10.35	25.48	46.00	-20.52	AVG

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

Test Specification: Neutral
AC 120V 60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1539	49.82	9.95	59.77	65.79	-6.02	QP
2		0.1539	32.78	9.95	42.73	55.79	-13.06	AVG
3		0.2179	46.62	9.95	56.57	62.90	-6.33	QP
4		0.2179	26.42	9.95	36.37	52.90	-16.53	AVG
5		0.4259	42.05	9.98	52.03	57.33	-5.30	QP
6		0.4259	21.25	9.98	31.23	47.33	-16.10	AVG
7		1.0460	40.88	10.01	50.89	56.00	-5.11	QP
8		1.0460	16.65	10.01	26.66	46.00	-19.34	AVG
9		1.9300	40.81	10.08	50.89	56.00	-5.11	QP
10		1.9300	18.25	10.08	28.33	46.00	-17.67	AVG
11	*	3.8740	40.85	10.27	51.12	56.00	-4.88	QP
12		3.8740	16.32	10.27	26.59	46.00	-19.41	AVG

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

7. RADIATED SPURIOUS EMISSION

7.1 Block Diagram Of Test Setup

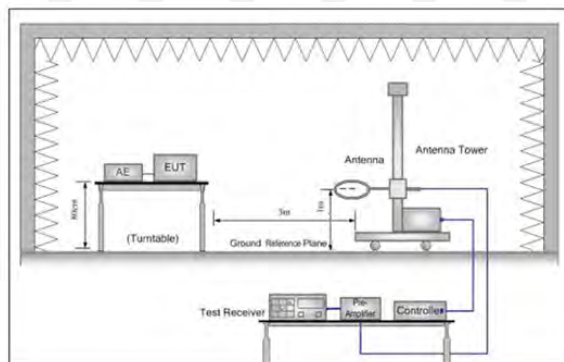


Figure 1. Below 30MHz

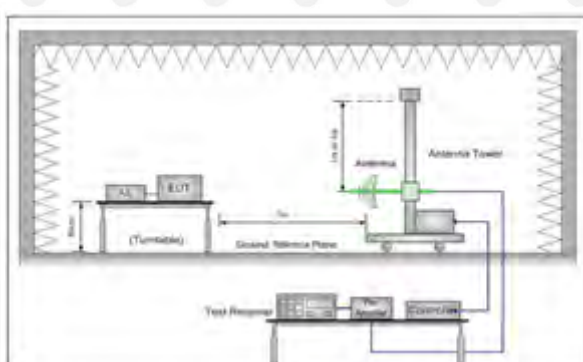


Figure 2. 30MHz to 1GHz

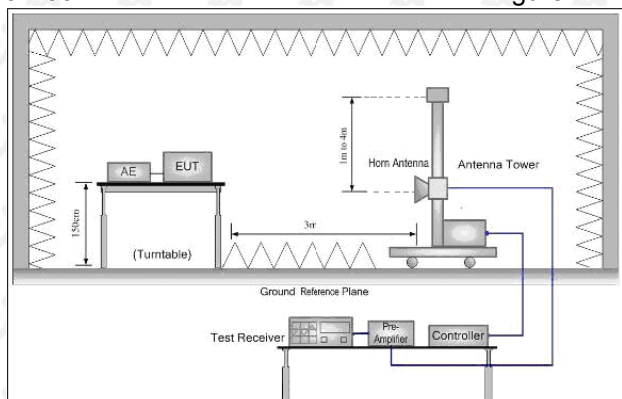


Figure 3. Above 1GHz

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

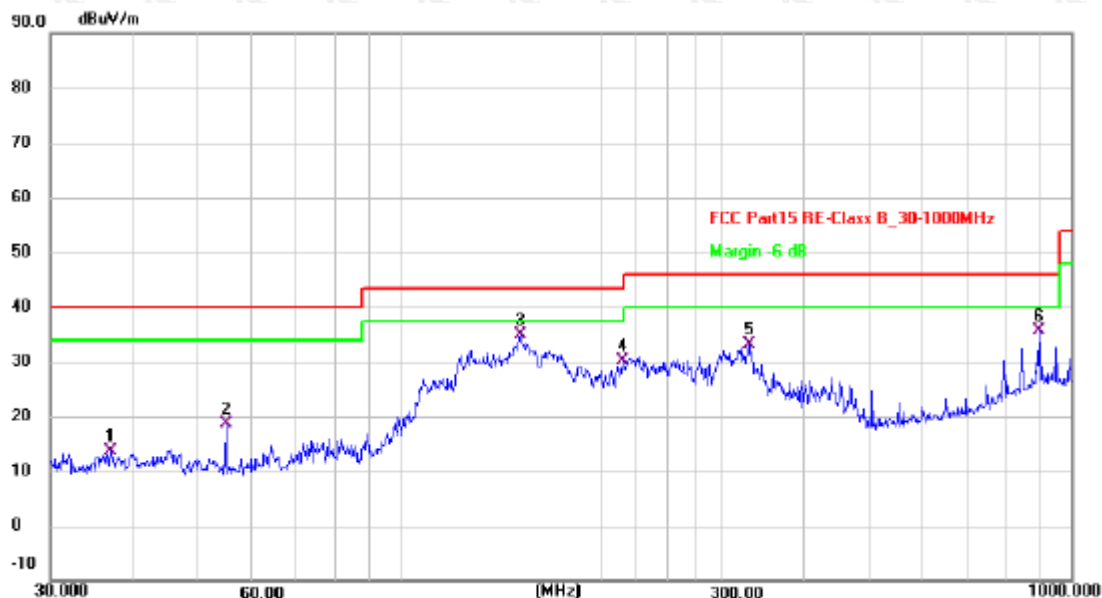
The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

7.4 Test Result

After pre-scanning three directions, the report recorded the worst case

Below 1GHz Test Results:

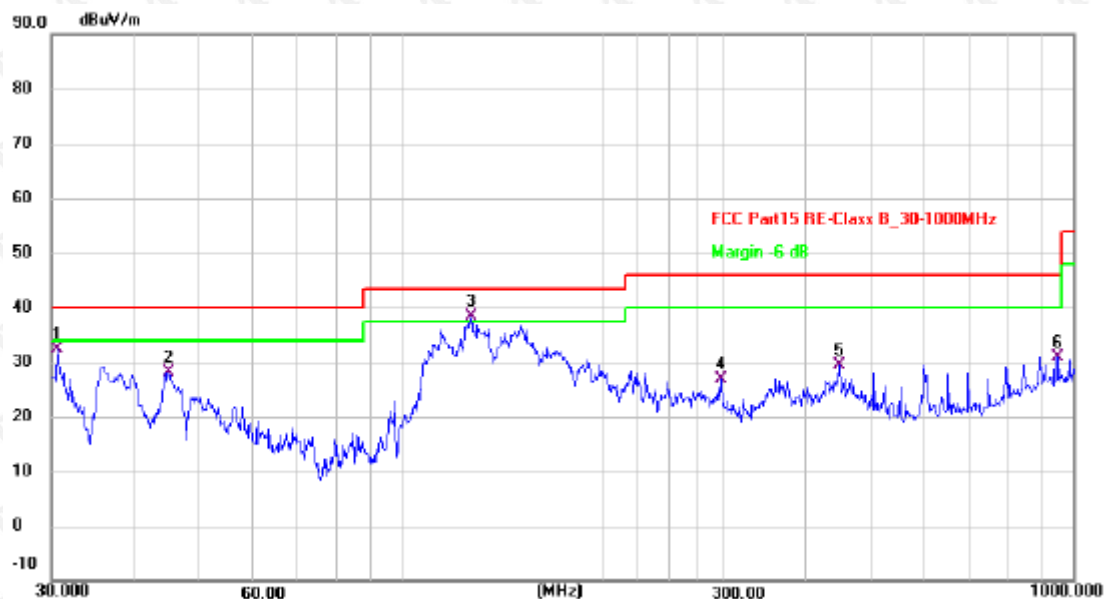
Antenna polarity: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8953	27.51	-13.96	13.55	40.00	-26.45	QP
2	54.8348	33.86	-15.31	18.55	40.00	-21.45	QP
3 *	150.5378	47.52	-12.55	34.97	43.50	-8.53	QP
4	213.7634	46.17	-16.14	30.03	43.50	-13.47	QP
5	330.1949	45.67	-12.55	33.12	46.00	-12.88	QP
6	896.9965	34.27	1.33	35.60	46.00	-10.40	QP

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

Antenna polarity: V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.6379	46.34	-14.03	32.31	40.00	-7.69	QP
2	44.9006	42.69	-14.44	28.25	40.00	-11.75	QP
3 *	126.7723	53.14	-14.82	38.32	43.50	-5.18	QP
4	298.2681	40.01	-13.09	26.92	46.00	-19.08	QP
5	447.9822	39.43	-9.94	29.49	46.00	-16.51	QP
6	948.7610	29.95	1.05	31.00	46.00	-15.00	QP

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

1. The margin of 9K-30MH measurement exceeds 20dB, so the test chart is not included.

2. All modes have been tested, and the test results show that ANT2 b-mode data is the worst, only ANT2 b-mode test chart is put.

The following test data shows only the worst mode test data of ANT1, ANT2, ANT3, ANT4:
Above 1 GHz Test Results:

ANT1 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	63.94	-3.64	60.30	74	-13.70	peak
4824	50.81	-3.64	47.17	54	-6.83	AVG
7236	59.31	-0.95	58.36	74	-15.64	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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	65.82	-3.64	62.18	74	-11.82	peak
4824	48.21	-3.64	44.57	54	-9.43	AVG
7236	56.79	-0.95	55.84	74	-18.16	peak
7236	43.57	-0.95	42.62	54	-11.38	AVG

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

ANT1 MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detection Type
4874	66.10	-3.51	62.59	74	-11.41	peak
4874	48.25	-3.51	44.74	54	-9.26	AVG
7311	58.89	-0.82	58.07	74	-15.93	peak
7311	43.17	-0.82	42.35	54	-11.65	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detection Type
4874	64.37	-3.51	60.86	74	-13.14	peak
4874	47.64	-3.51	44.13	54	-9.87	AVG
7311	59.27	-0.82	58.45	74	-15.55	peak
7311	42.25	-0.82	41.43	54	-12.57	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

ANT1 HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detect Type
4924	63.31	-3.43	59.88	74	-14.12	peak
4924	46.34	-3.43	42.91	54	-11.09	AVG
7386	59.21	-0.75	58.46	74	-15.54	peak
7386	44.95	-0.75	44.20	54	-9.80	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detect Type
4924	64.65	-3.43	61.22	74	-12.78	peak
4924	48.60	-3.43	45.17	54	-8.83	AVG
7386	58.09	-0.75	57.34	74	-16.66	peak
7386	41.16	-0.75	40.41	54	-13.59	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

Remark:

- (1). Measuring frequencies from 9KHz to the 25 GHz. The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report
- (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.

ANT1 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	64.42	-3.64	60.78	74	-13.22	peak
4824	50.22	-3.64	46.58	54	-7.42	AVG
7236	57.22	-0.95	56.27	74	-17.73	peak
7236	45.25	-0.95	44.30	54	-9.70	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	64.66	-3.64	61.02	74	-12.98	peak
4824	47.38	-3.64	43.74	54	-10.26	AVG
7236	56.42	-0.95	55.47	74	-18.53	peak
7236	44.56	-0.95	43.61	54	-10.39	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

ANT1 MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detection Type
4874	64.48	-3.51	60.97	74	-13.03	peak
4874	50.35	-3.51	46.84	54	-7.16	AVG
7311	58.60	-0.82	57.78	74	-16.22	peak
7311	44.89	-0.82	44.07	54	-9.93	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detection Type
4874	64.47	-3.51	60.96	74	-13.04	peak
4874	46.83	-3.51	43.32	54	-10.68	AVG
7311	59.37	-0.82	58.55	74	-15.45	peak
7311	44.14	-0.82	43.32	54	-10.68	AVG

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

ANT1 HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Correction Factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detection Type
4924	63.53	-3.43	60.10	74	-13.90	peak
4924	47.23	-3.43	43.80	54	-10.20	AVG
7386	57.88	-0.75	57.13	74	-16.87	peak
7386	42.72	-0.75	41.97	54	-12.03	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Correction Factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detection Type
4924	63.00	-3.43	59.57	74	-14.43	peak
4924	47.01	-3.43	43.58	54	-10.42	AVG
7386	57.81	-0.75	57.06	74	-16.94	peak
7386	41.75	-0.75	41.00	54	-13.00	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

Remark:

- (1). Measuring frequencies from 9KHz to the 25 GHz. The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report
- (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.

ANT1+ANT2+ANT3+ANT4 :

Above 1GHz

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	64.70	-3.64	61.06	74	-12.94	peak
4824	50.41	-3.64	46.77	54	-7.23	AVG
7236	58.14	-0.95	57.19	74	-16.81	peak
7236	44.29	-0.95	43.34	54	-10.66	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	66.50	-3.64	62.86	74	-11.14	peak
4824	49.29	-3.64	45.65	54	-8.35	AVG
7236	56.76	-0.95	55.81	74	-18.19	peak
7236	43.30	-0.95	42.35	54	-11.65	AVG

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

LOW CH1 (802.11n/H20 Mode)/2437

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detection Type
4874	64.73	-3.51	61.22	74	-12.78	peak
4874	48.18	-3.51	44.67	54	-9.33	AVG
7311	59.12	-0.82	58.30	74	-15.70	peak
7311	44.09	-0.82	43.27	54	-10.73	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detection Type
4874	64.98	-3.51	61.47	74	-12.53	peak
4874	48.97	-3.51	45.46	54	-8.54	AVG
7311	58.89	-0.82	58.07	74	-15.93	peak
7311	45.03	-0.82	44.21	54	-9.79	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

LOW CH1 (802.11n/H20 Mode)/2462

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detect Type
4924	63.50	-3.43	60.07	74	-13.93	peak
4924	47.48	-3.43	44.05	54	-9.95	AVG
7386	58.15	-0.75	57.40	74	-16.60	peak
7386	44.38	-0.75	43.63	54	-10.37	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detect Type
4924	64.09	-3.43	60.66	74	-13.34	peak
4924	46.80	-3.43	43.37	54	-10.63	AVG
7386	56.96	-0.75	56.21	74	-17.79	peak
7386	43.27	-0.75	42.52	54	-11.48	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

Remark:

- (1). Measuring frequencies from 9KHz to the 25 GHz. The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report
- (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.

ANT1+ANT2+ANT3+ANT4

LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844	64.29	-3.63	60.66	74	-13.34	peak
4844	47.96	-3.63	44.33	54	-9.67	AVG
7266	59.59	-0.94	58.65	74	-15.35	peak
7266	44.44	-0.94	43.50	54	-10.50	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844	65.39	-3.63	61.76	74	-12.24	peak
4844	48.82	-3.63	45.19	54	-8.81	AVG
7266	58.58	-0.94	57.64	74	-16.36	peak
7266	44.73	-0.94	43.79	54	-10.21	AVG

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

ANT1+ANT2+ANT3+ANT4:
MID CH6 (802.11n/H40 Mode)/2437
Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	63.20	-3.51	59.69	74	-14.31	peak
4874	46.97	-3.51	43.46	54	-10.54	AVG
7311	59.85	-0.82	59.03	74	-14.97	peak
7311	45.20	-0.82	44.38	54	-9.62	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	62.25	-3.51	58.74	74	-15.26	peak
4874	46.48	-3.51	42.97	54	-11.03	AVG
7311	56.69	-0.82	55.87	74	-18.13	peak
7311	43.34	-0.82	42.52	54	-11.48	AVG
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Emission level Margin = Emission level - Limits						

ANT1+ANT2+ANT3+ANT4 HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904	64.09	-3.43	60.66	74	-13.34	peak
4904	49.00	-3.43	45.57	54	-8.43	AVG
7356	56.53	-0.75	55.78	74	-18.22	peak
7356	43.63	-0.75	42.88	54	-11.12	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904	63.96	-3.43	60.53	74	-13.47	peak
4904	45.94	-3.43	42.51	54	-11.49	AVG
7356	56.91	-0.75	56.16	74	-17.84	peak
7356	42.36	-0.75	41.61	54	-12.39	AVG

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

Remark:

- (1). Measuring frequencies from 9KHz to the 25 GHz. The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report
- (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:

The following test data shows only the worst mode test data of ANT1, ANT2, ANT3, ANT4:

ANT 1 802.11b 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	57.42	-5.81	51.61	74	-22.39	peak
2390	/	-5.81	/	54	/	AVG
2399	64.81	-5.84	58.97	74	-15.03	peak
2399	47.96	-5.84	42.12	54	-11.88	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)	
2390	57.08	-5.81	51.27	74	-22.73	peak
2390	/	-5.81	/	54	/	AVG
2399	62.72	-5.84	56.88	74	-17.12	peak
2399	47.27	-5.84	41.43	54	-12.57	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Operation Mode:

ANT1 802.11b 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	55.95	-5.65	50.30	74	-23.70	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	56.62	-5.65	50.97	74	-23.03	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:

ANT1 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	61.52	-5.84	55.68	74	-18.32	peak
2399	46.16	-5.84	40.32	54	-13.68	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	57.59	-5.81	51.78	74	-22.22	peak
2390	/	-5.81	/	54	/	AVG
2399	62.21	-5.84	56.37	74	-17.63	peak
2399	45.69	-5.84	39.85	54	-14.15	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Operation Mode:

ANT1 802.11g 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	56.03	-5.65	50.38	74	-23.62	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	57.16	-5.65	51.51	74	-22.49	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:

ANT1+ANT2+ANT3+ANT4:
802.11n/H20 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	56.15	-5.81	50.34	74	-23.66	peak
2390	/	-5.81	/	54	/	AVG
2399	62.73	-5.84	56.89	74	-17.11	peak
2399	48.32	-5.84	42.48	54	-11.52	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	56.39	-5.81	50.58	74	-23.42	peak
2390	/	-5.81	/	54	/	AVG
2399	60.91	-5.84	55.07	74	-18.93	peak
2399	47.78	-5.84	41.94	54	-12.06	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Operation Mode:

ANT1+ANT2+ANT3+ANT4:
802.11n/H20 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	55.68	-5.65	50.03	74	-23.97	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	56.55	-5.65	50.90	74	-23.10	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:

ANT1+ANT2+ANT3+ANT4:
802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	58.75	-5.81	52.94	74	-21.06	peak
2390	/	-5.81	/	54	/	AVG
2399	62.49	-5.84	56.65	74	-17.35	peak
2399	46.54	-5.84	40.70	54	-13.30	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	58.44	-5.81	52.63	74	-21.37	peak
2390	/	-5.81	/	54	/	AVG
2399	60.83	-5.84	54.99	74	-19.01	peak
2399	46.87	-5.84	41.03	54	-12.97	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Operation Mode:

ANT1+ANT2+ANT3+ANT4:

802.11n/H40 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	57.69	-5.65	52.04	74	-21.96	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:

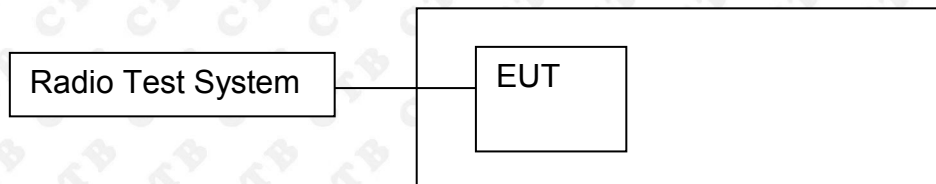
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.06	-5.65	50.41	74	-23.59	peak
2483.5	/	-5.65	/	54	/	AVG

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

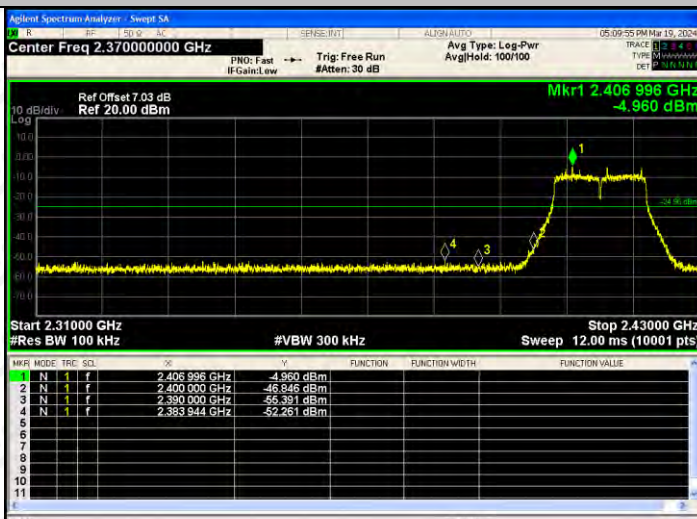
8.4 Test Result

ANT1:

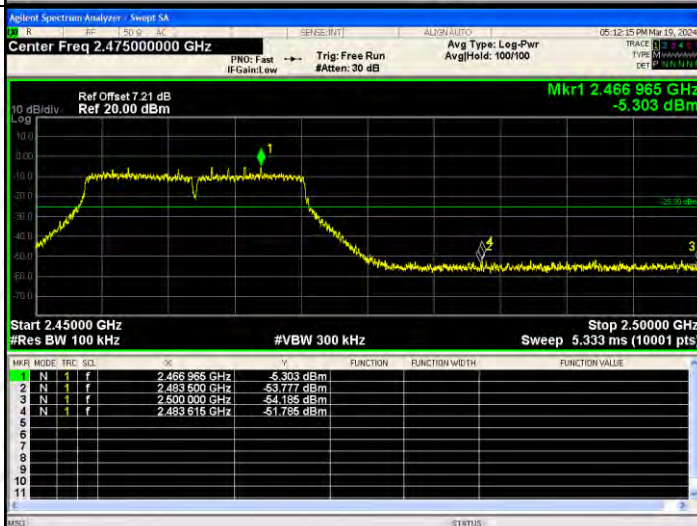


BAND EDGE Graphs

802.11g/LCH

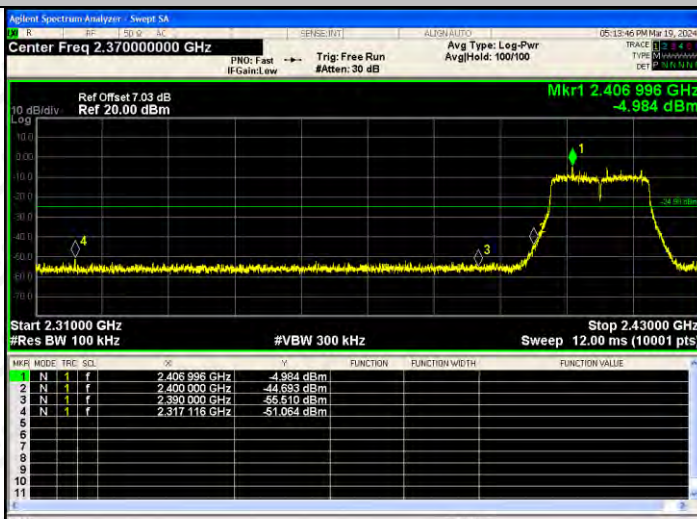


802.11g/HCH

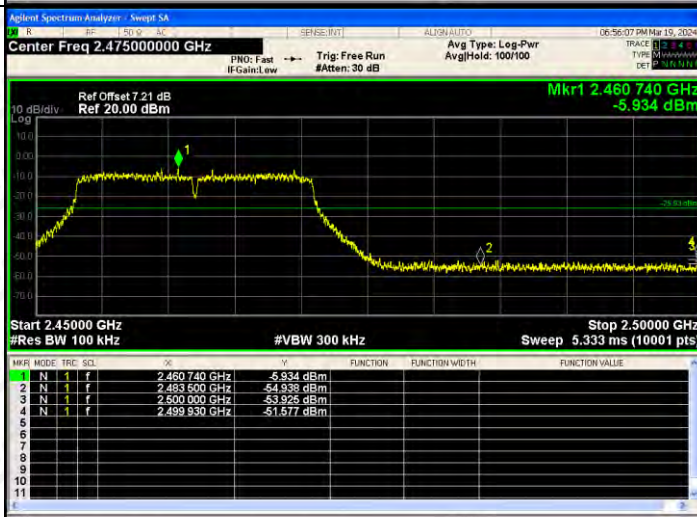


BAND EDGE Graphs

802.11n(HT20)/L
CH

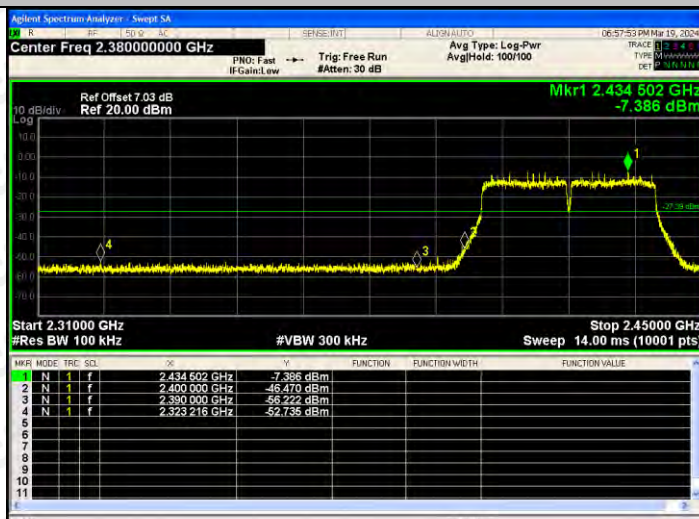


802.11n(HT20)/H
CH

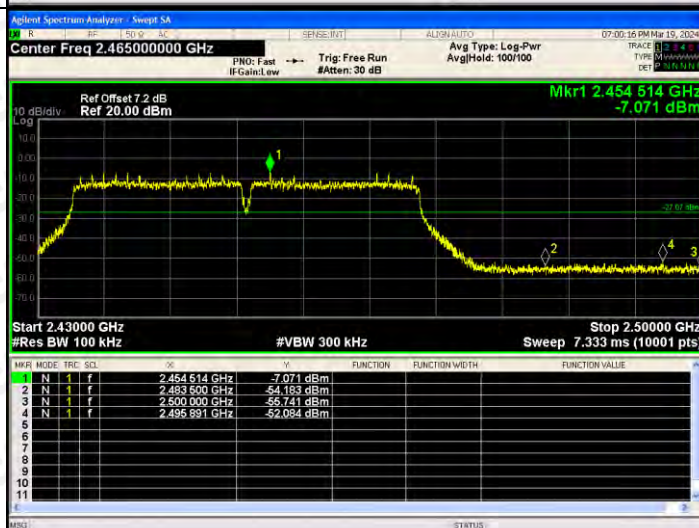


BAND EDGE Graphs

802.11n(HT40)/L
CH



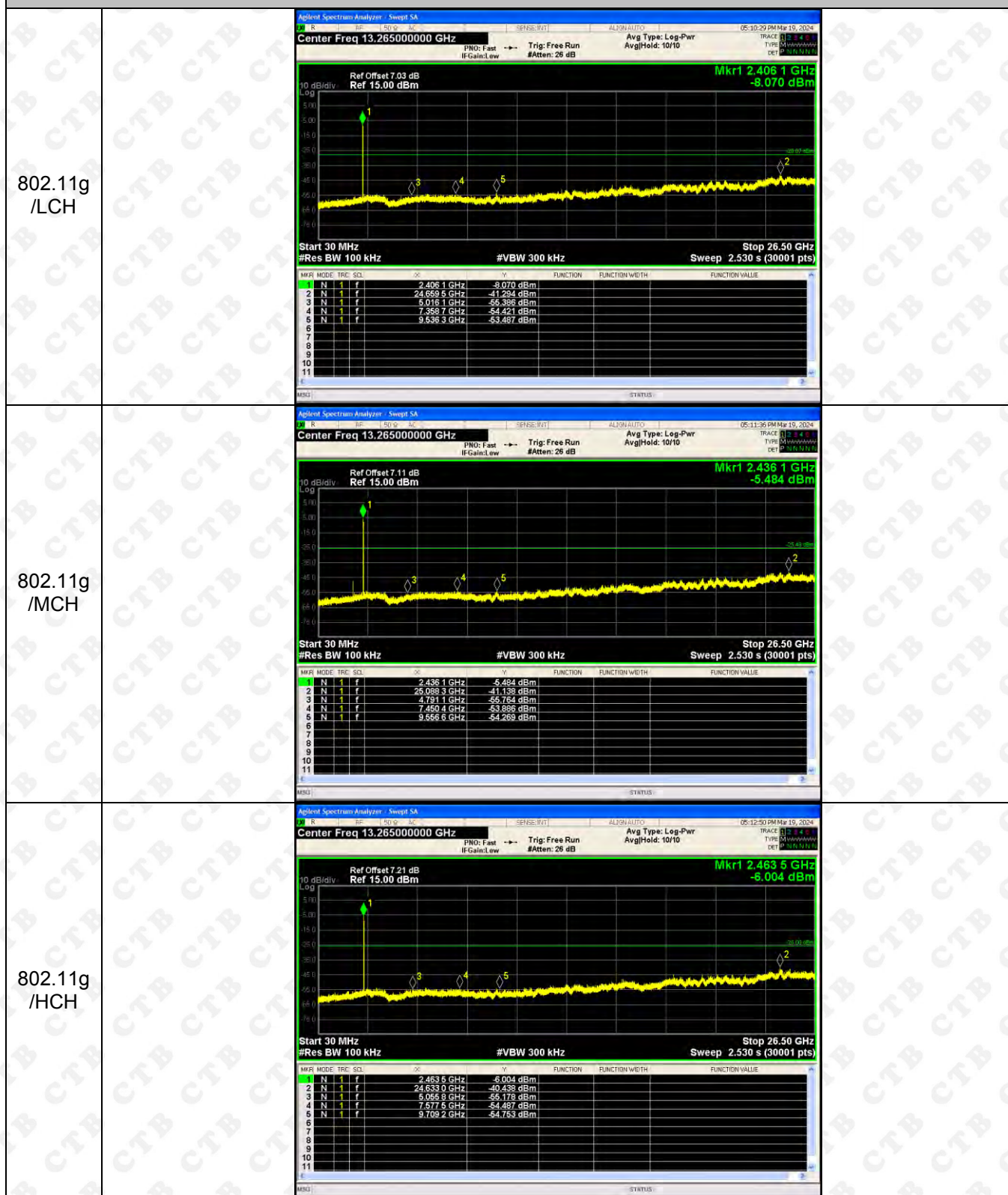
802.11n(HT40)/H
CH



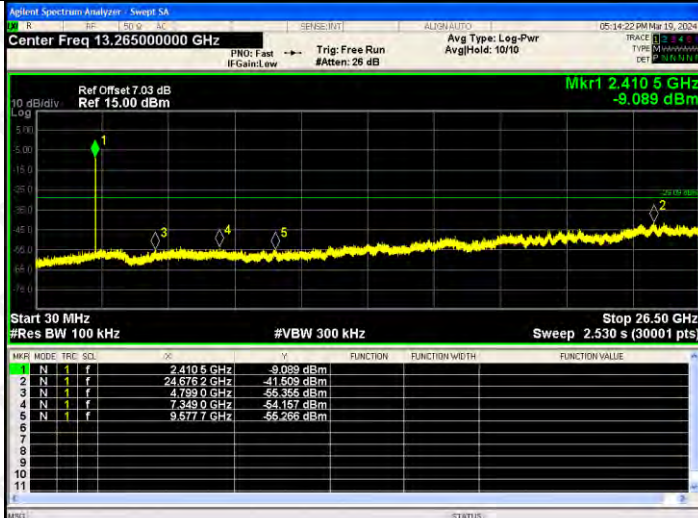
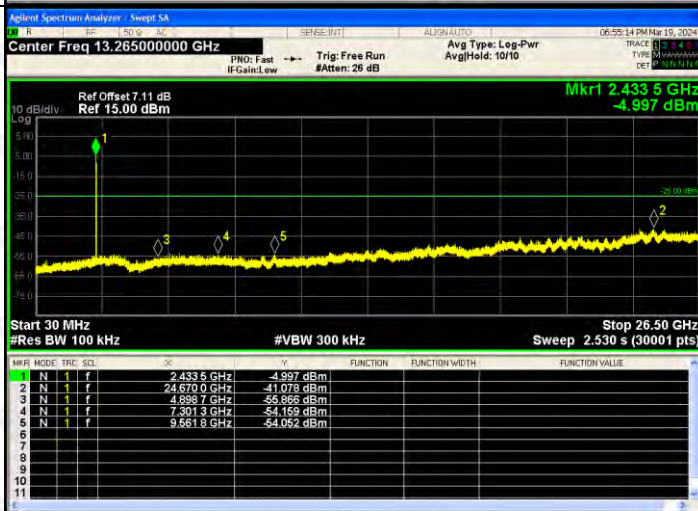
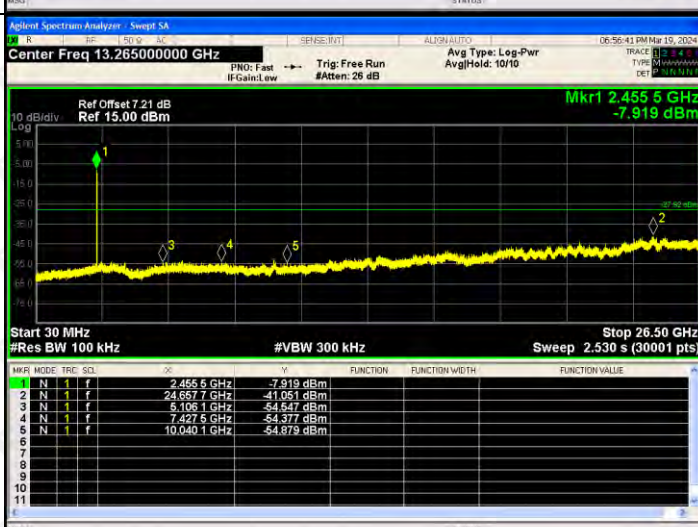
RF Conducted Spurious Emissions Graphs

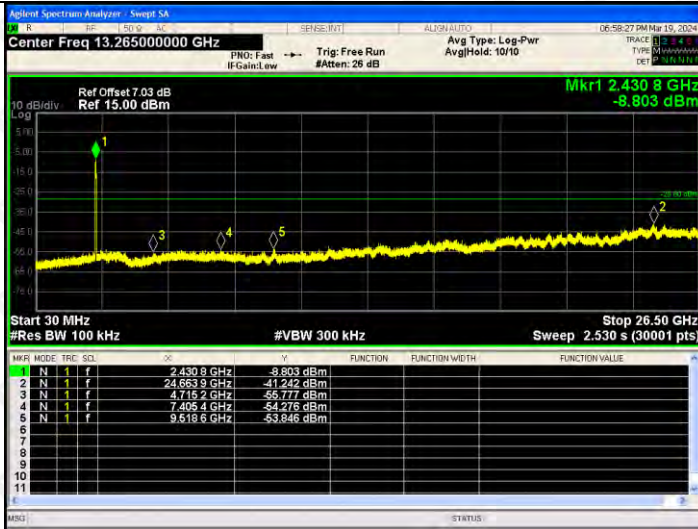
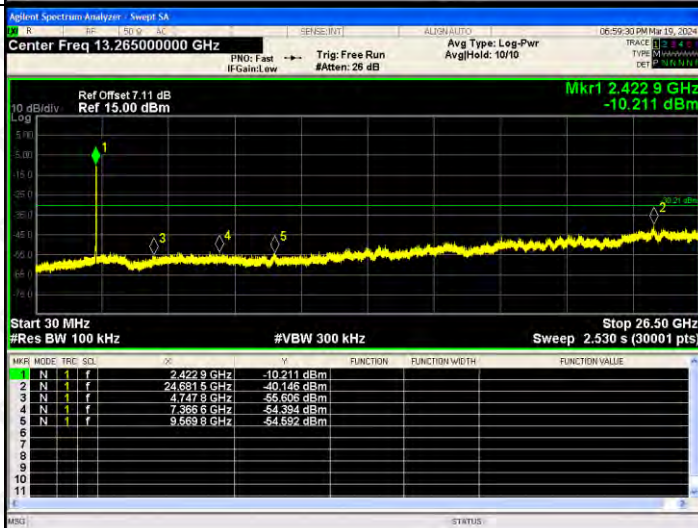
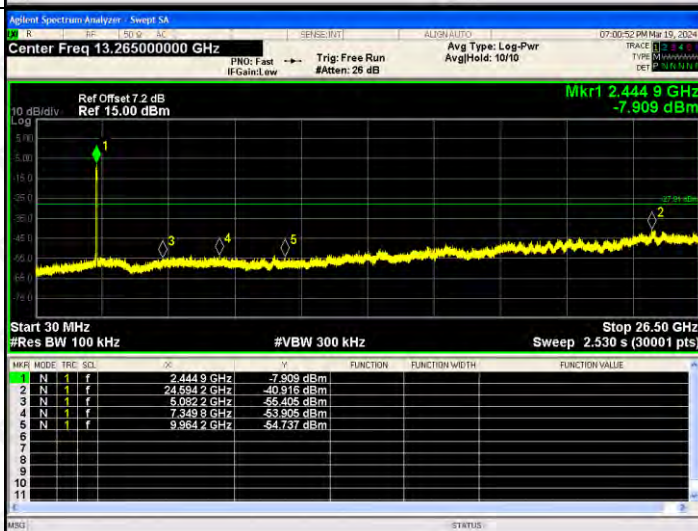
802.11b /LCH	Agilent Spectrum Analyzer - Sweep SA Center Freq 13.265000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Att: 26 dB Avg Type: Log-Pwr Avg/Hold: 10/10 Ref Offset 7.03 dB Ref 15.00 dBm Mkr1 2.413 2 GHz -2.155 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.530 s (30001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SQL</th><th>F</th><th>P</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.413 2 GHz</td><td>-2.155 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.711 5 GHz</td><td>-41.224 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>4.843 1 GHz</td><td>-56.448 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>7.269 5 GHz</td><td>-56.141 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>9.478 0 GHz</td><td>-54.627 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRC	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.413 2 GHz	-2.155 dBm				2	N	1	f	24.711 5 GHz	-41.224 dBm				3	N	1	f	4.843 1 GHz	-56.448 dBm				4	N	1	f	7.269 5 GHz	-56.141 dBm				5	N	1	f	9.478 0 GHz	-54.627 dBm				
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RF Conducted Spurious Emissions Graphs



RF Conducted Spurious Emissions Graphs

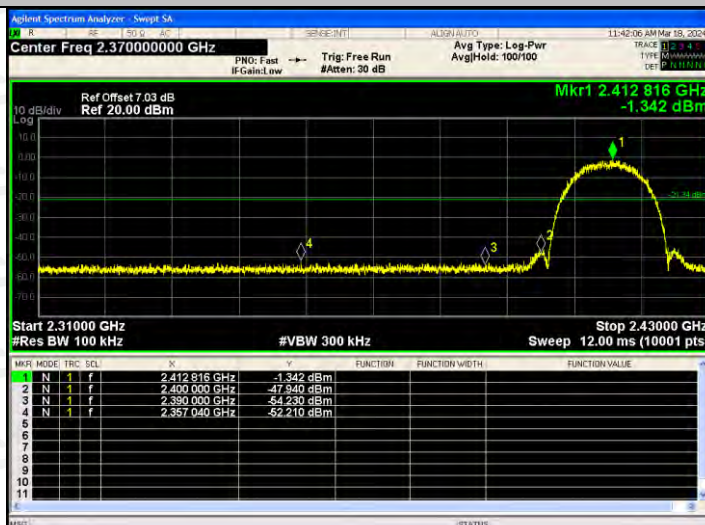
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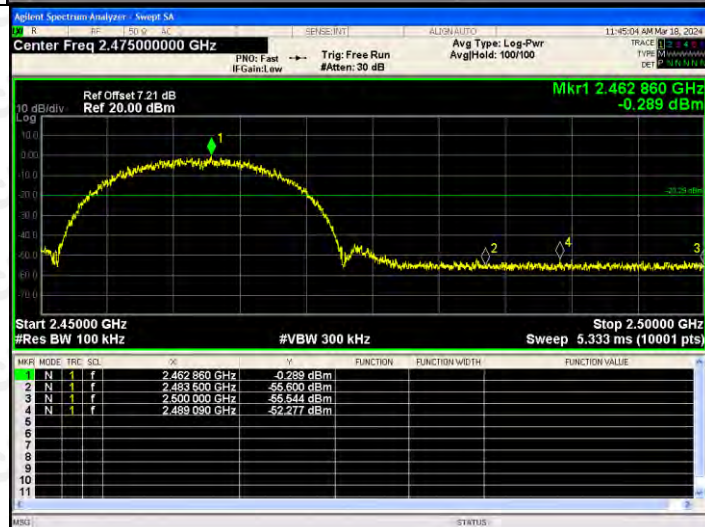
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BAND EDGE Graphs

802.11b/LCH

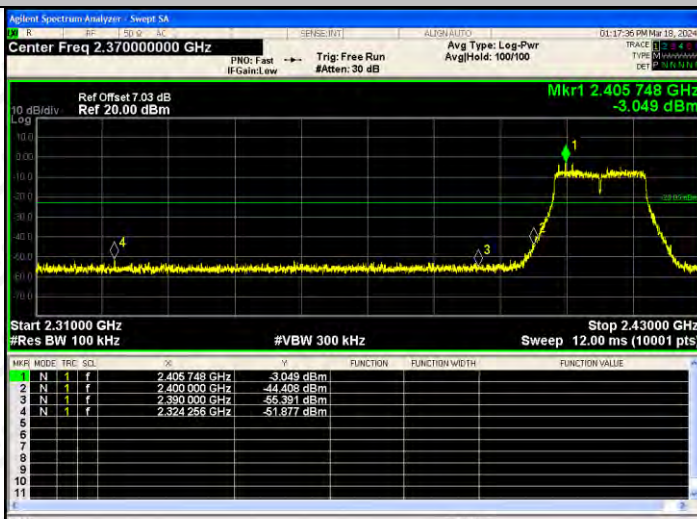


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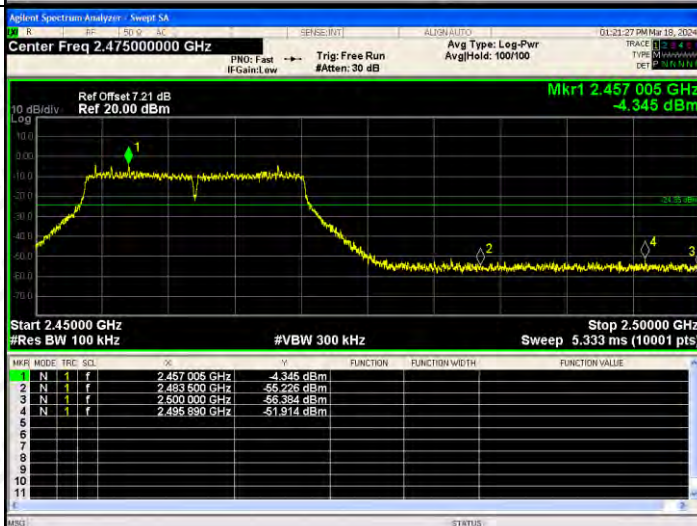


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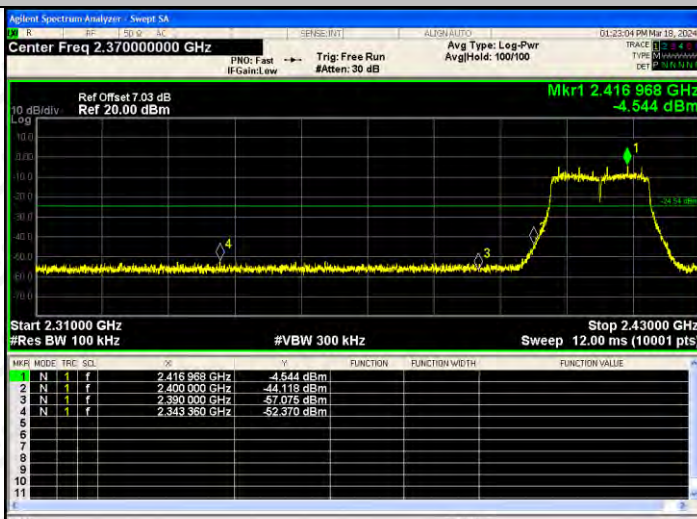


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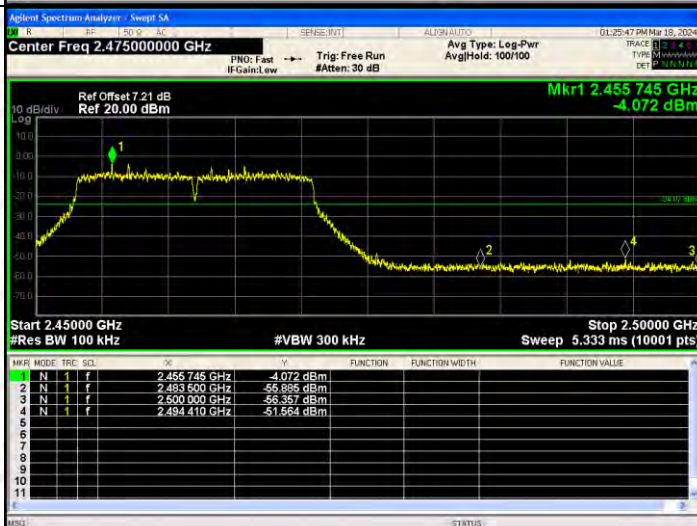


BAND EDGE Graphs

802.11n(HT20)/L
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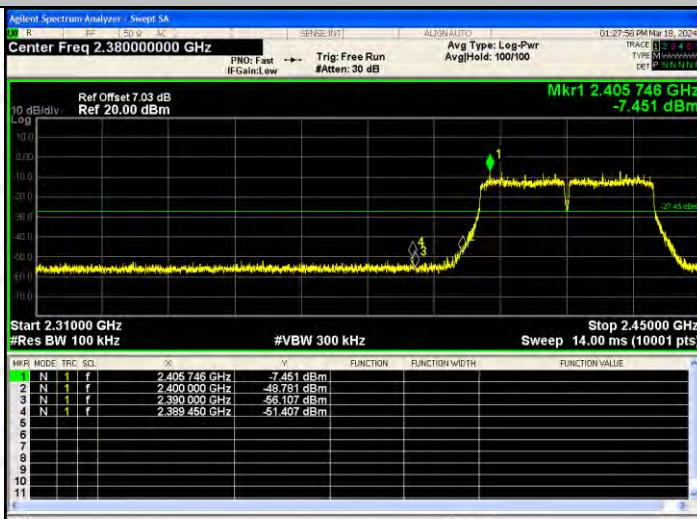


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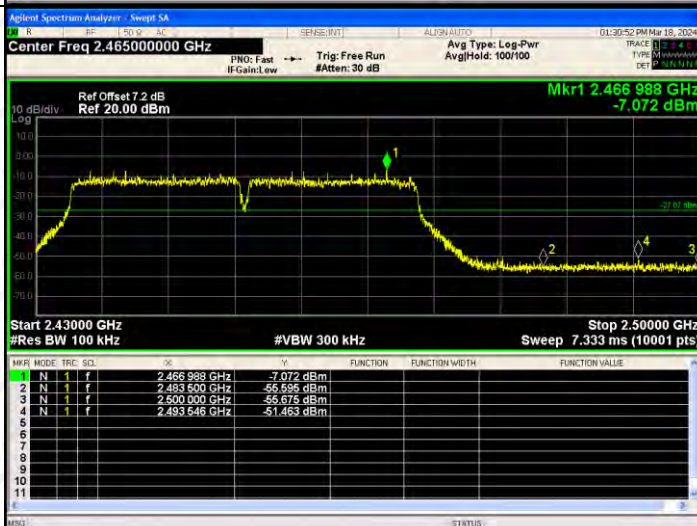


BAND EDGE Graphs

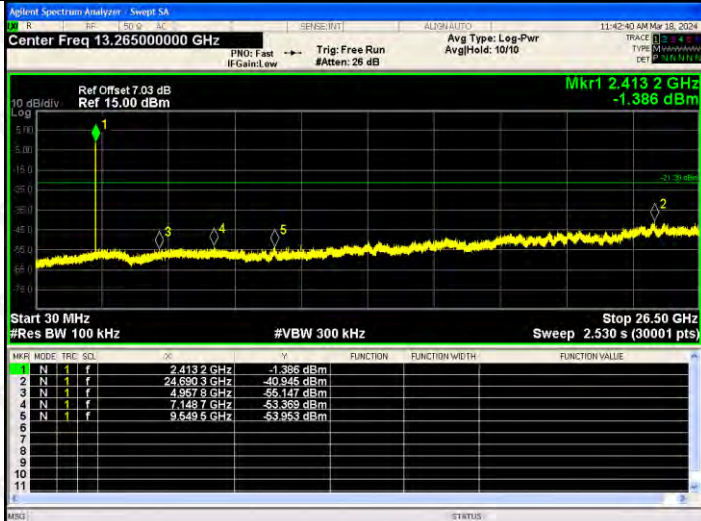
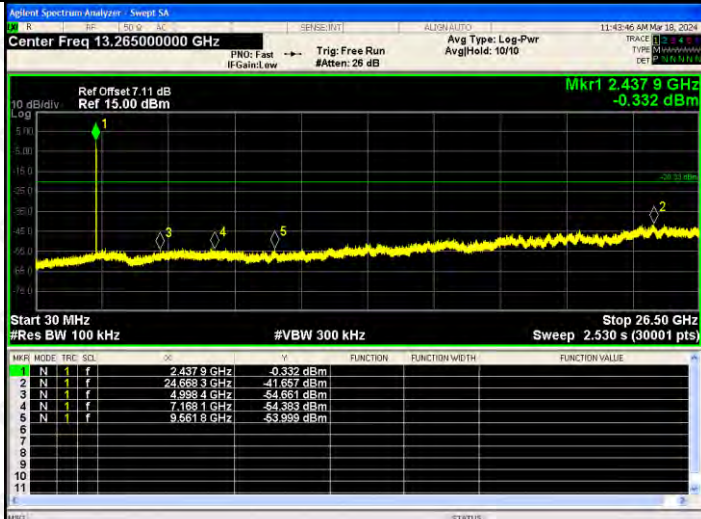
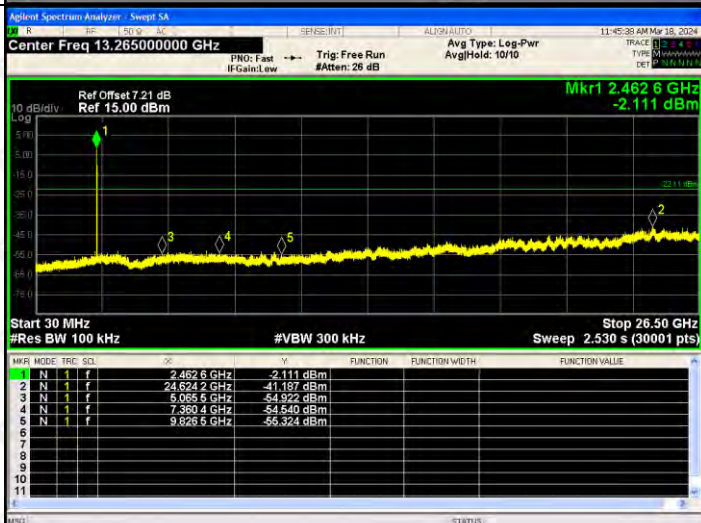
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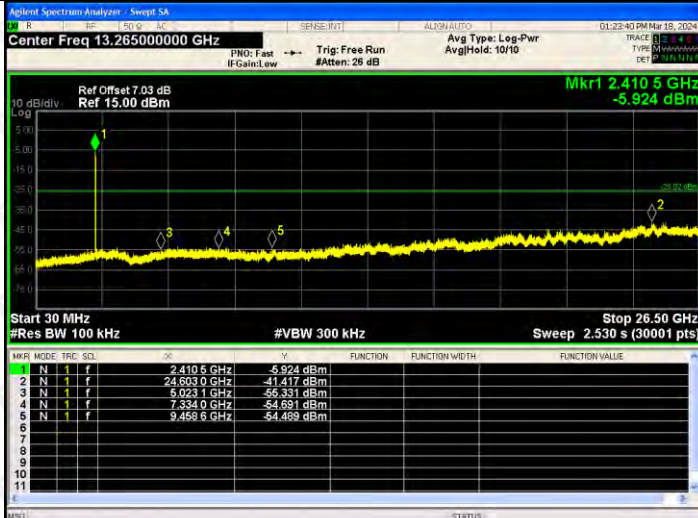
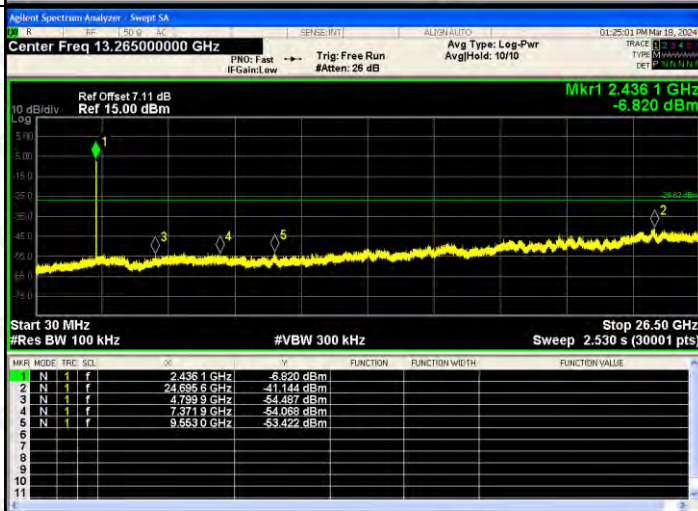
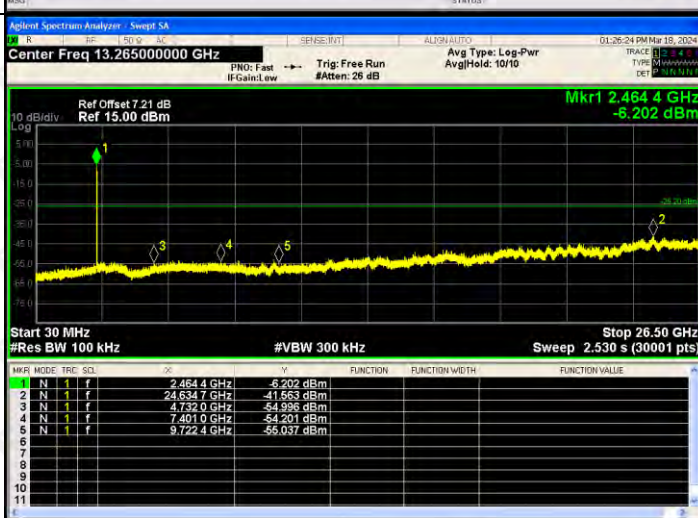
RF Conducted Spurious Emissions Graphs

802.11b /LCH	 <table><tr><th>MNR</th><th>MODE</th><th>TRF</th><th>SQL</th><th>F</th><th>P</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4132 GHz</td><td>-1.386 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.4890 GHz</td><td>-40.945 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>4.9578 GHz</td><td>-55.147 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>7.4457 GHz</td><td>-53.359 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>9.5485 GHz</td><td>-53.953 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRF	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4132 GHz	-1.386 dBm				2	N	1	f	2.4890 GHz	-40.945 dBm				3	N	1	f	4.9578 GHz	-55.147 dBm				4	N	1	f	7.4457 GHz	-53.359 dBm				5	N	1	f	9.5485 GHz	-53.953 dBm				
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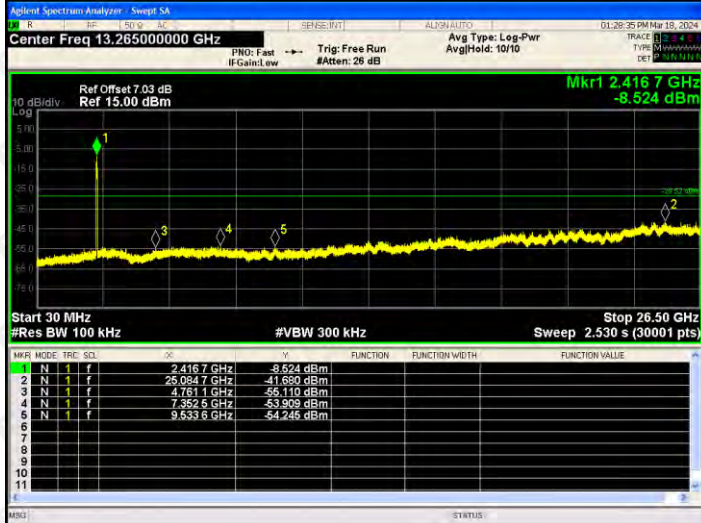
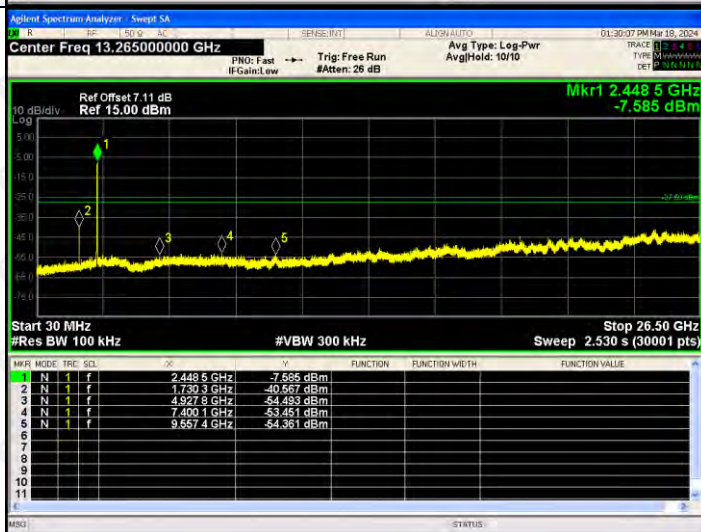
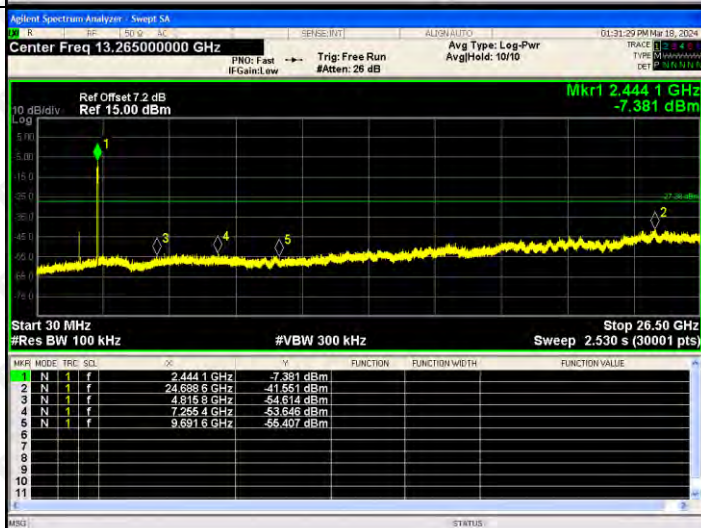
RF Conducted Spurious Emissions Graphs

802.11g /LCH	Agilent Spectrum Analyzer - Sweep SA Center Freq 13.265000000 GHz Ref Offset 7.03 dB Ref 15.00 dBm Mkr1 2.418 5 GHz -6.266 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 300001 pts <table><thead><tr><th>MFR</th><th>MODE</th><th>TRC</th><th>SQL</th><th>Δf</th><th>F</th><th>P</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td></td><td>2.418 5 GHz</td><td>-6.266 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td></td><td>24.660 3 GHz</td><td>-40.921 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td></td><td>4.829 9 GHz</td><td>-55.020 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td></td><td>7.069 3 GHz</td><td>-54.861 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td></td><td>9.531 0 GHz</td><td>-53.647 dBm</td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	MFR	MODE	TRC	SQL	Δf	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f		2.418 5 GHz	-6.266 dBm				2	N	1	f		24.660 3 GHz	-40.921 dBm				3	N	1	f		4.829 9 GHz	-55.020 dBm				4	N	1	f		7.069 3 GHz	-54.861 dBm				5	N	1	f		9.531 0 GHz	-53.647 dBm				6										7										8										9										10										11									
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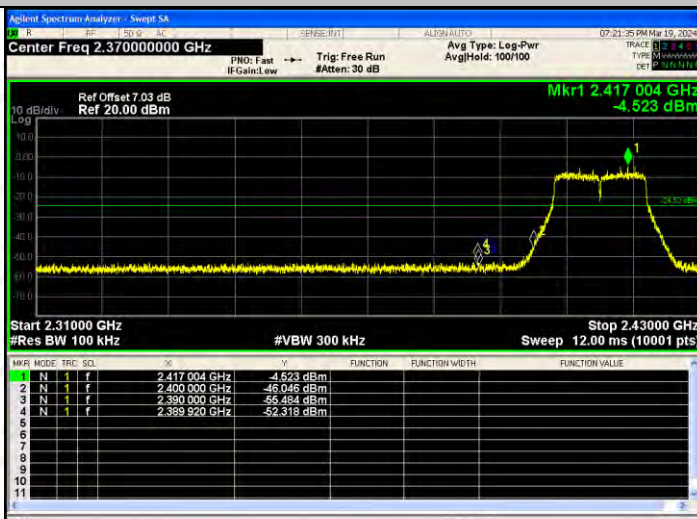
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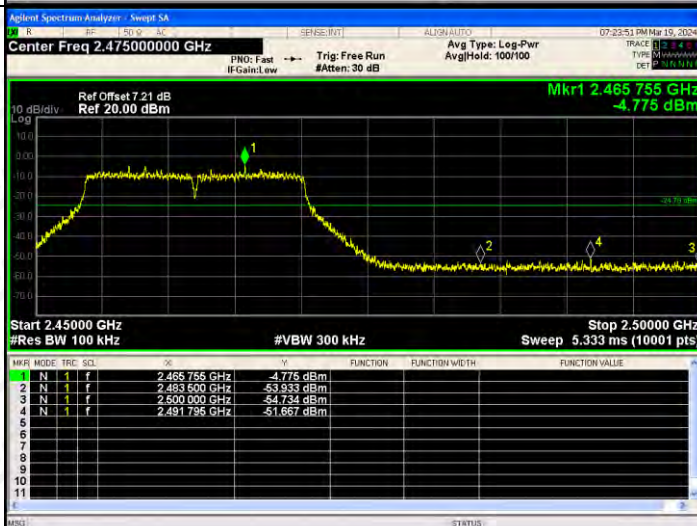


BAND EDGE Graphs

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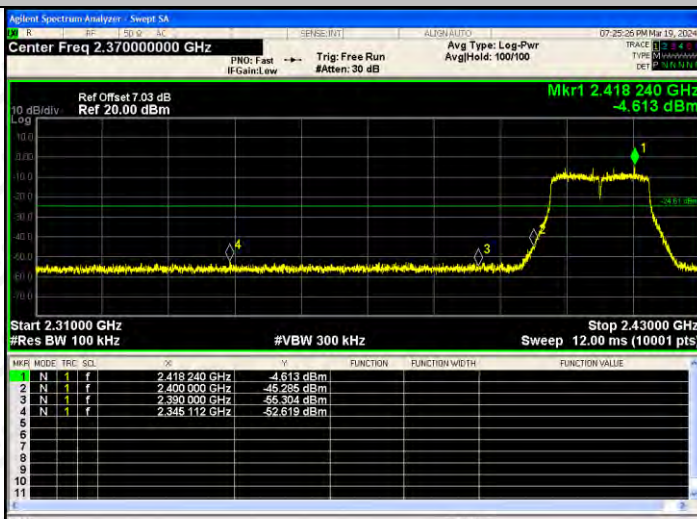


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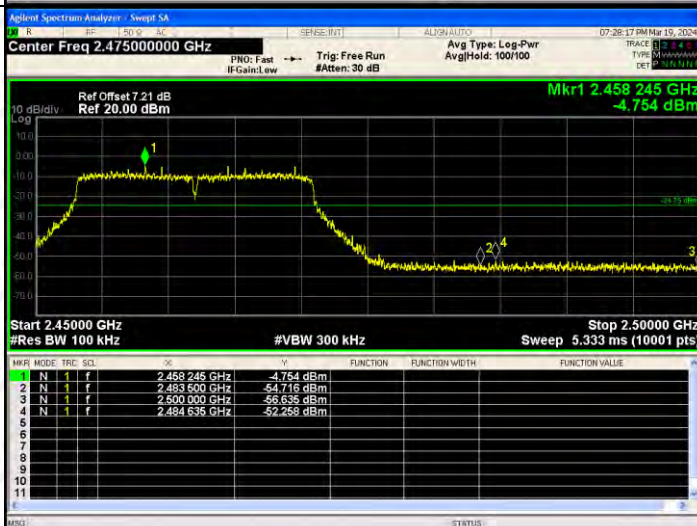


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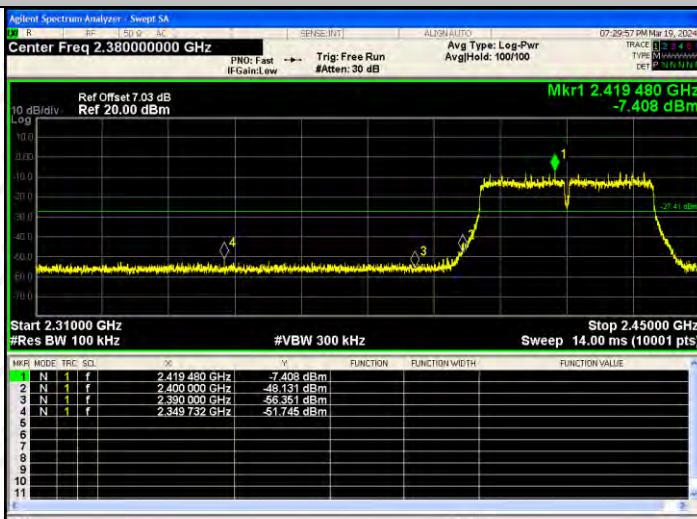


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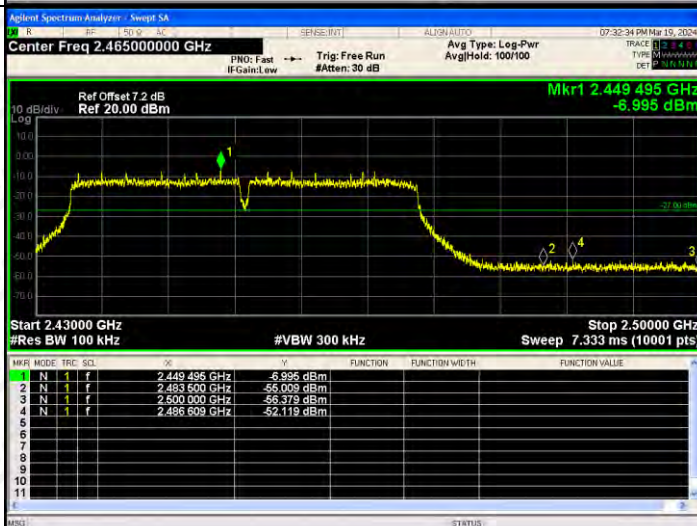


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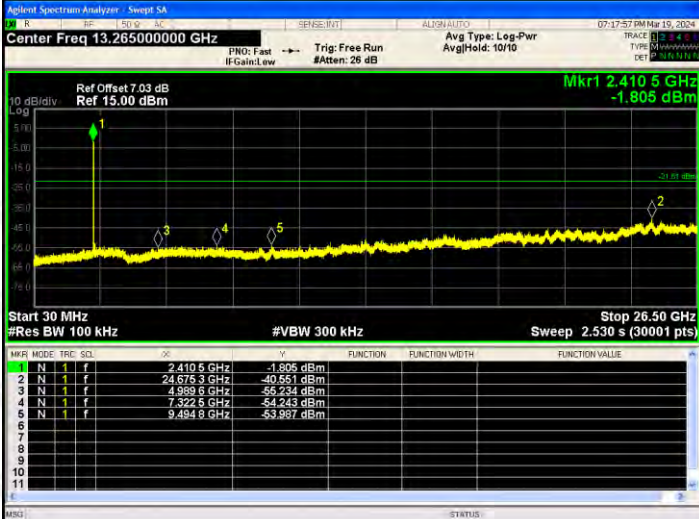
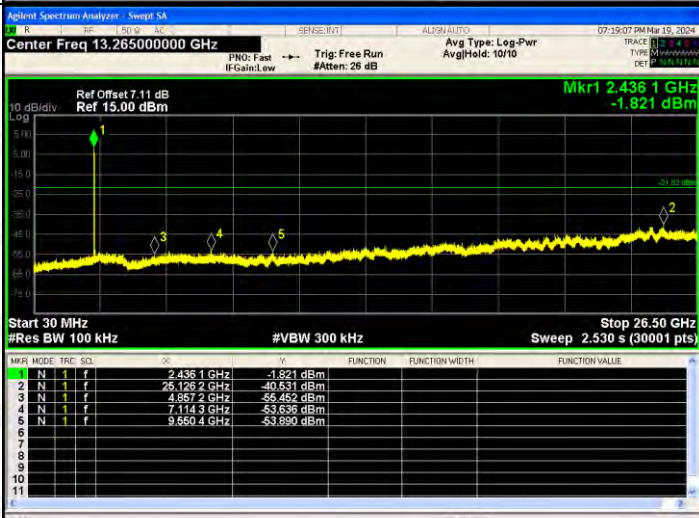
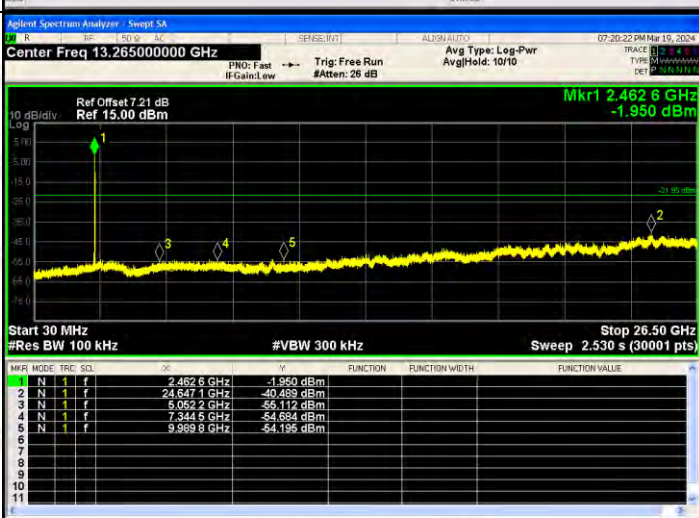
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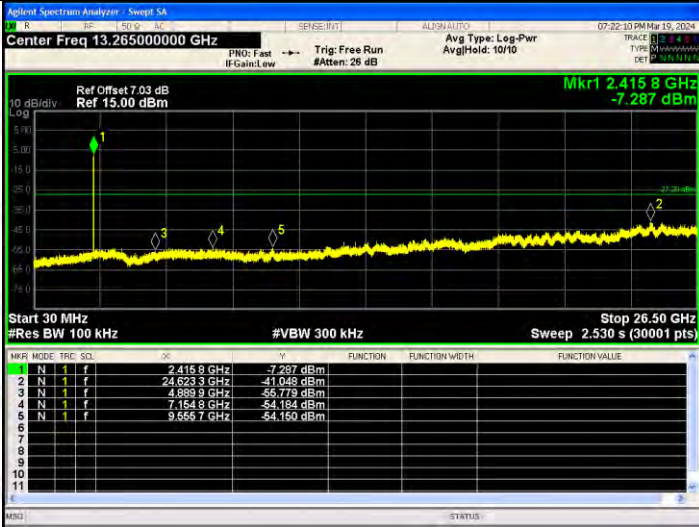
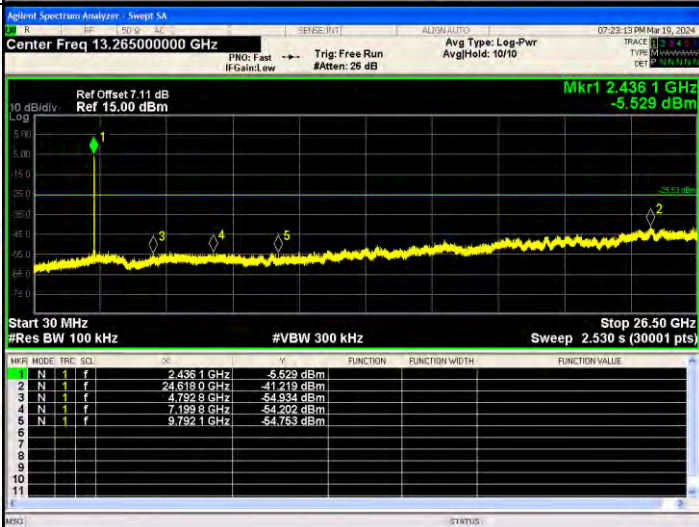
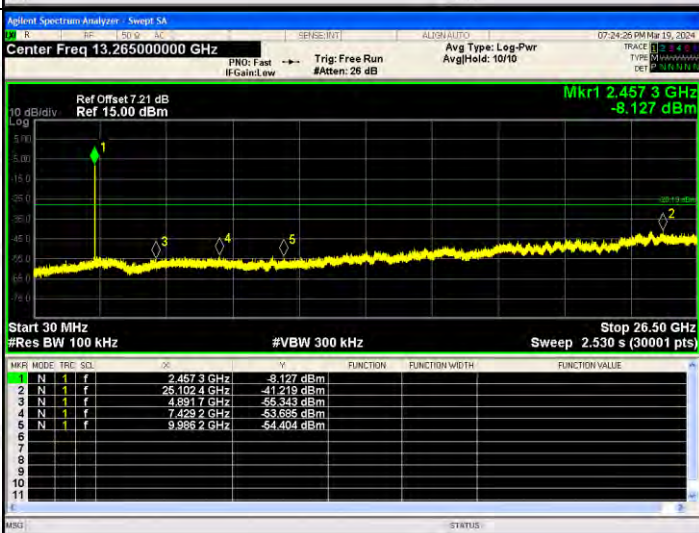
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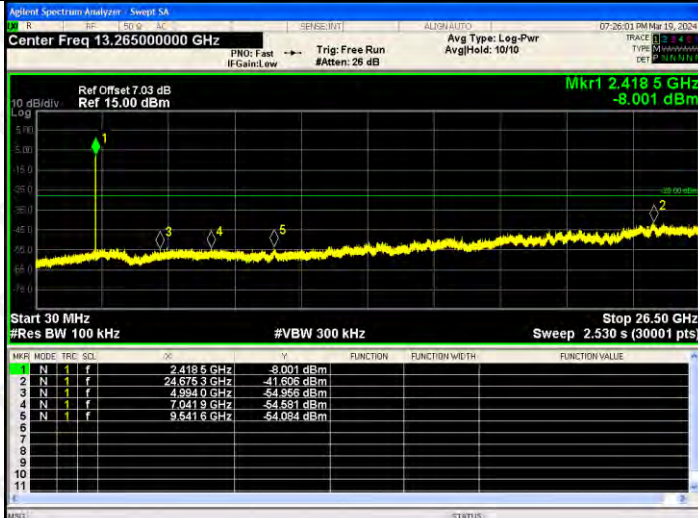
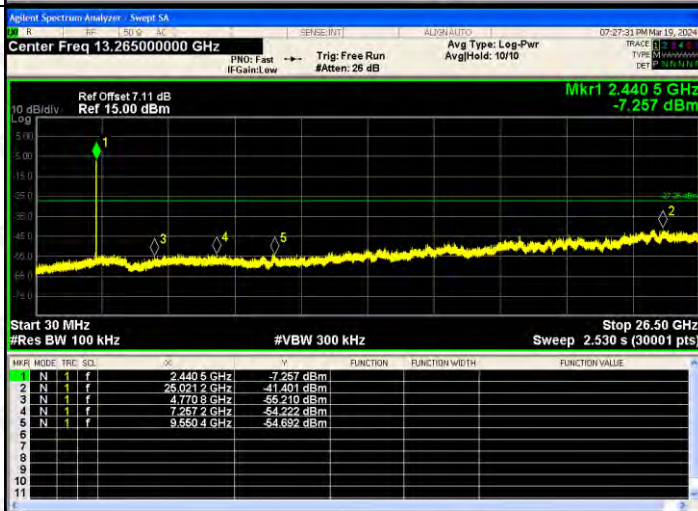
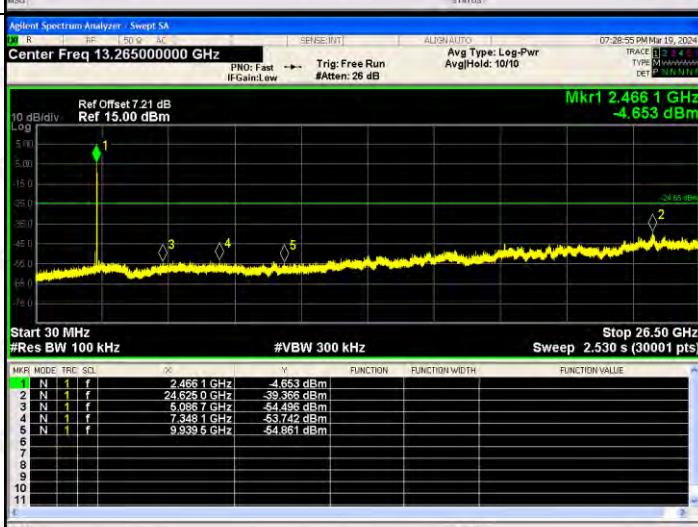
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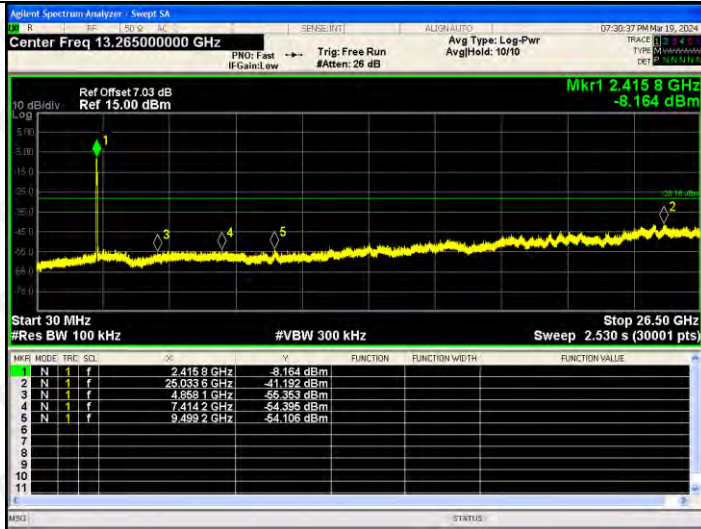
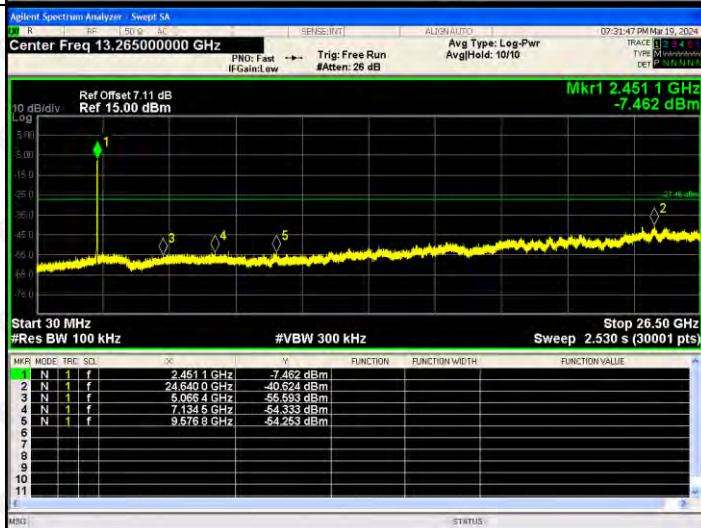
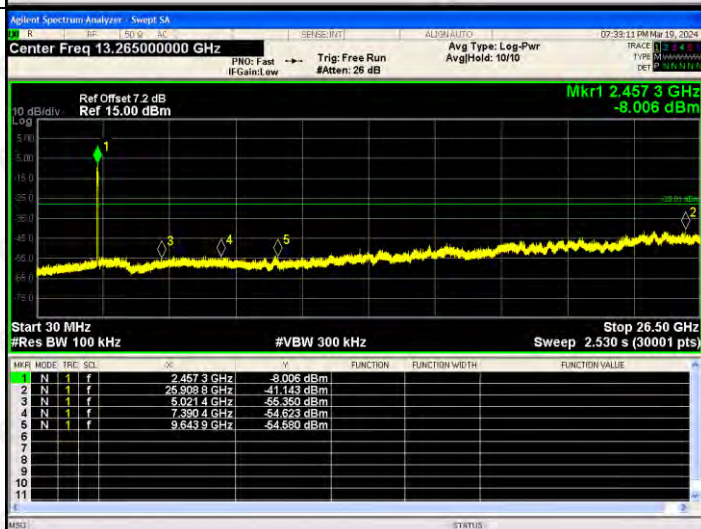
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RF Conducted Spurious Emissions Graphs

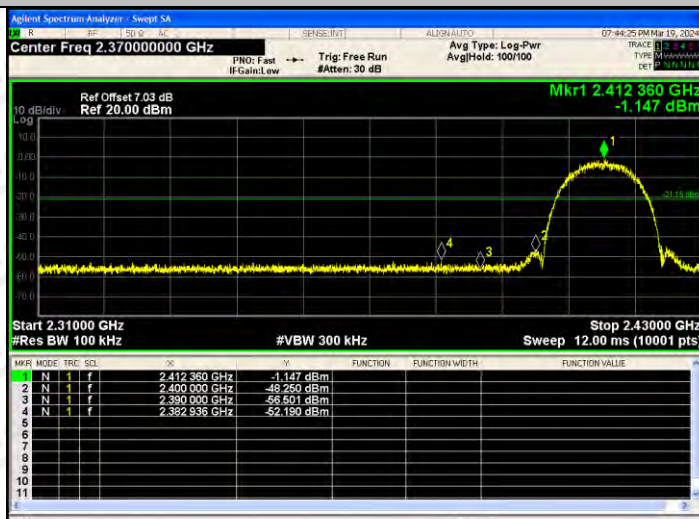
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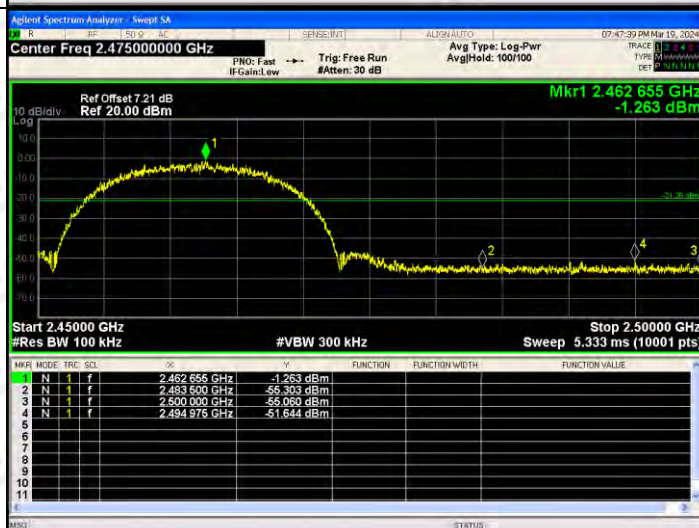
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BAND EDGE Graphs

802.11b/LCH

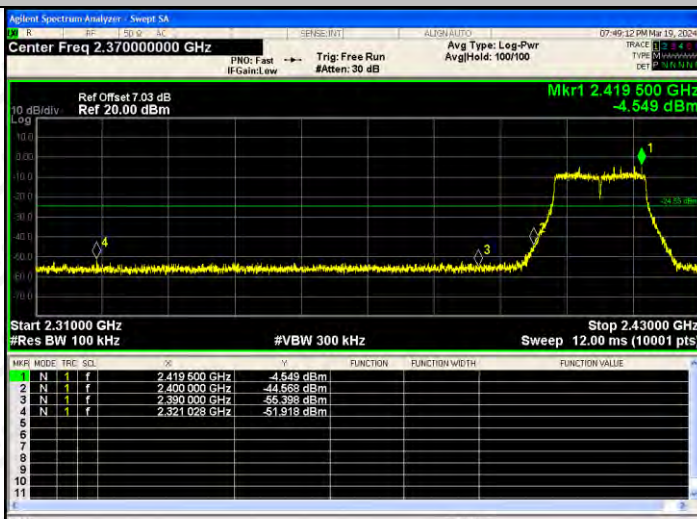


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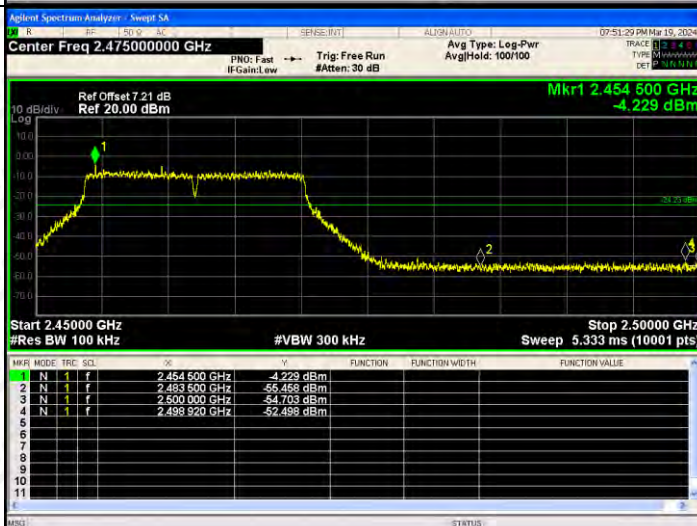


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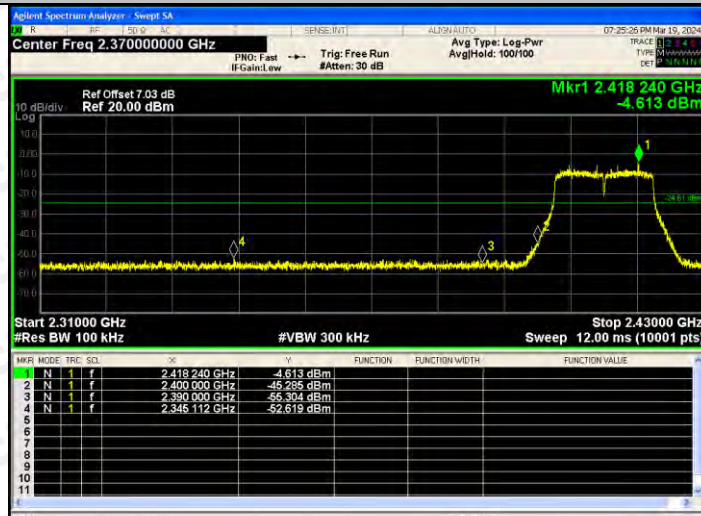


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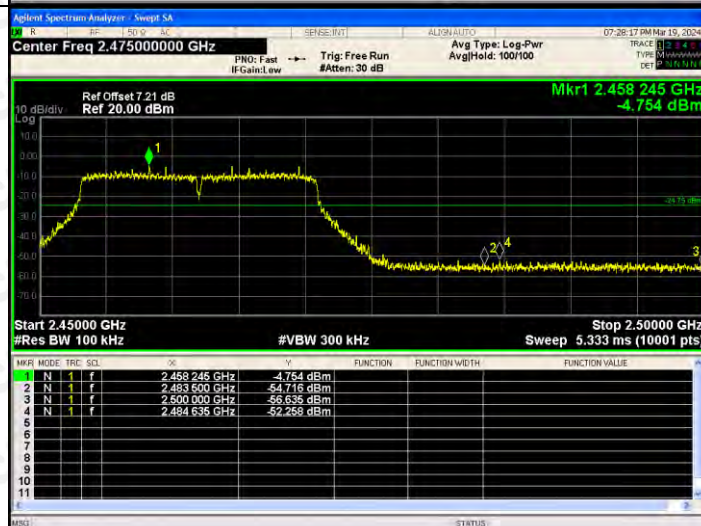


BAND EDGE Graphs

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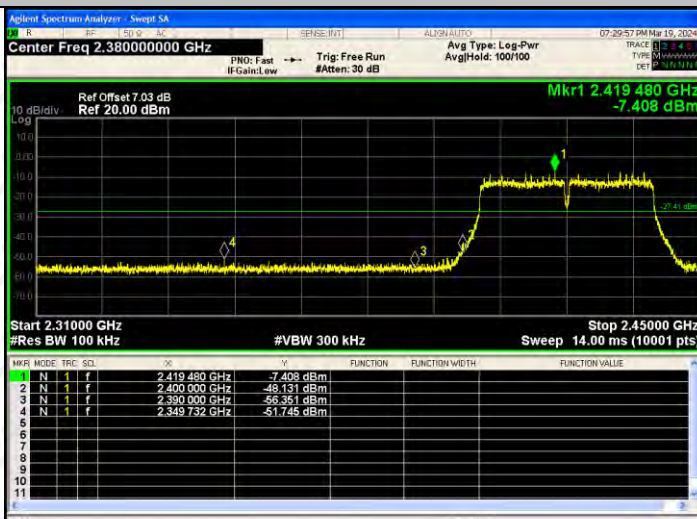


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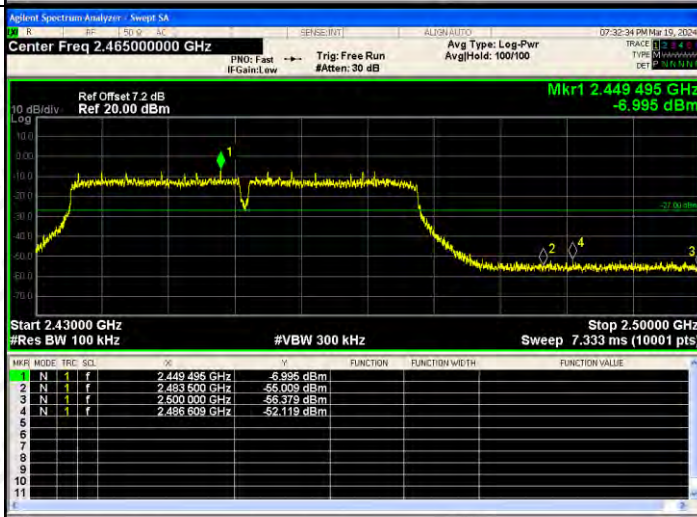


BAND EDGE Graphs

802.11n(HT40)/L
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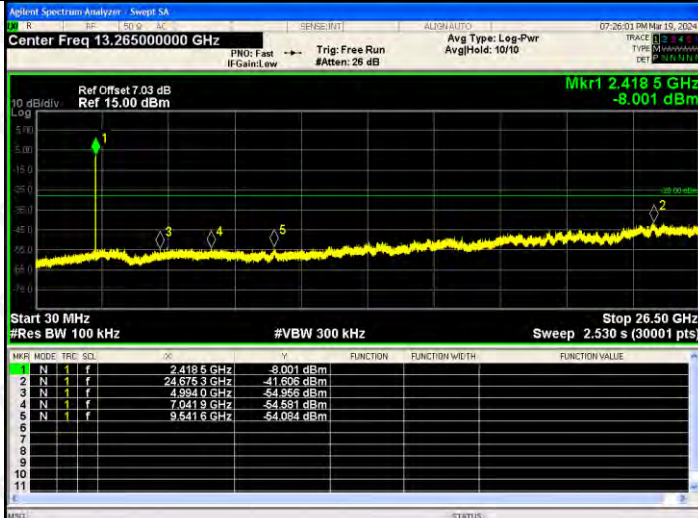
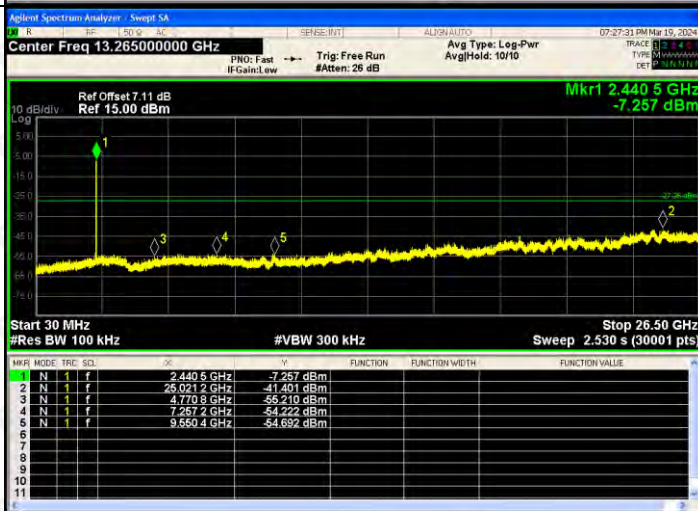
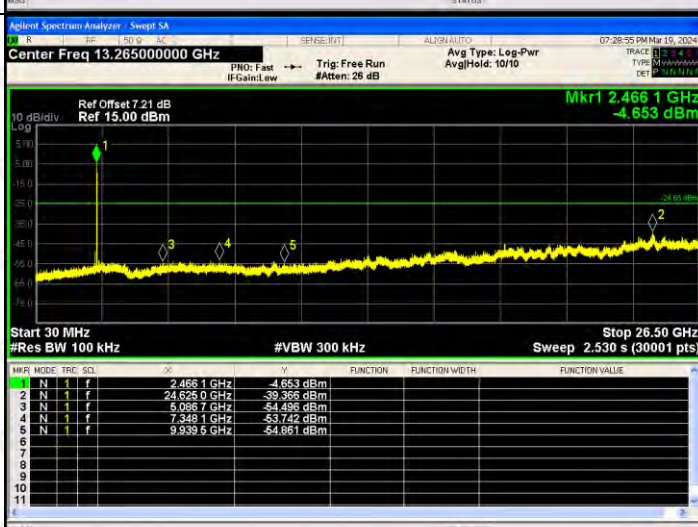
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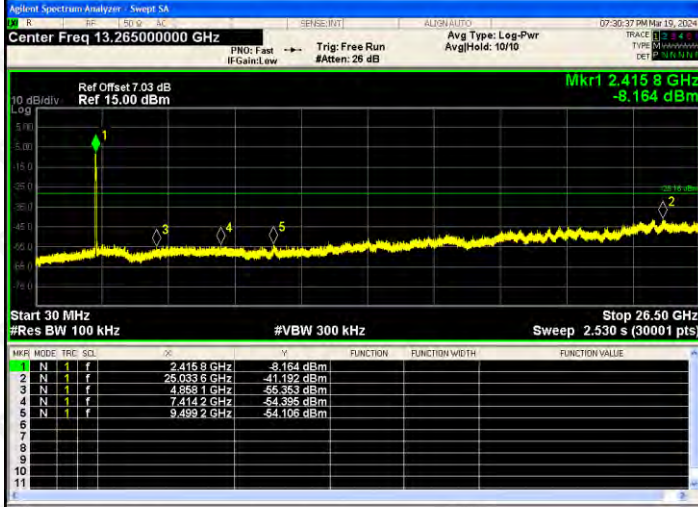
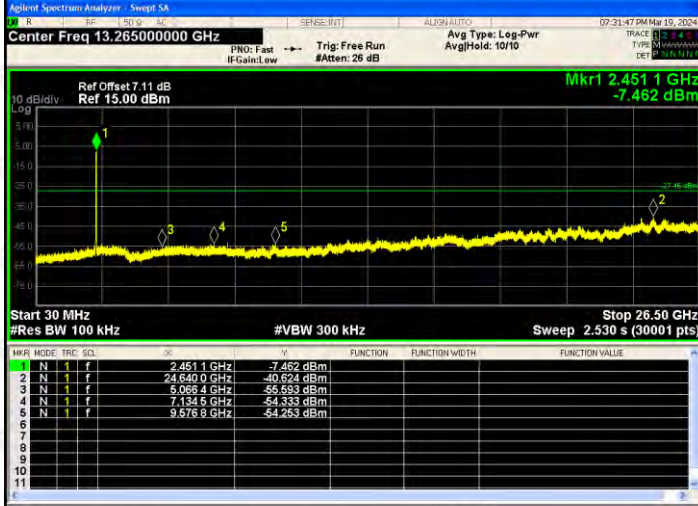
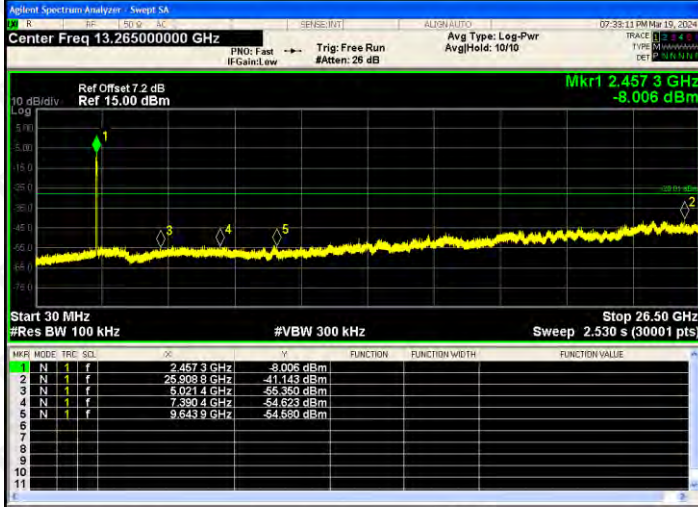
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802.11g /HCH	Agilent Spectrum Analyzer - Sweep SA Center Freq 13.265000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Att: 26 dB Avg Type: Log-Pwr Avg/Hold: 10/10 Ref Offset 7.21 dB Ref 15.00 dBm Mkr1 2.4582 GHz -4.752 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.530 s (30001 pts) MNR MODE TRC SQZ F FZ FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 2.4582 GHz -4.752 dBm 2 N 1 f 24.6224 GHz -40.705 dBm 3 N 1 f 5.1105 GHz -54.622 dBm 4 N 1 f 7.4884 GHz -54.220 dBm 5 N 1 f 10.0397 GHz -54.836 dBm	

RF Conducted Spurious Emissions Graphs

802.11n (HT20)/ LCH	 <table><tr><th>MNR</th><th>MODE</th><th>TRF</th><th>SQL</th><th>F</th><th>P</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4185 GHz</td><td>-9.001 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.6753 GHz</td><td>-41.806 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>4.9940 GHz</td><td>-54.956 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>7.0419 GHz</td><td>-54.581 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>9.5416 GHz</td><td>-54.054 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRF	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4185 GHz	-9.001 dBm				2	N	1	f	24.6753 GHz	-41.806 dBm				3	N	1	f	4.9940 GHz	-54.956 dBm				4	N	1	f	7.0419 GHz	-54.581 dBm				5	N	1	f	9.5416 GHz	-54.054 dBm				
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RF Conducted Spurious Emissions Graphs

802.11 n(HT40) /LCH	 <table><tr><th>CH</th><th>Freq</th><th>Power</th></tr><tr><td>1</td><td>2.4158 GHz</td><td>-8.164 dBm</td></tr><tr><td>2</td><td>25.0336 GHz</td><td>-41.192 dBm</td></tr><tr><td>3</td><td>4.8581 GHz</td><td>-55.353 dBm</td></tr><tr><td>4</td><td>7.4142 GHz</td><td>-54.355 dBm</td></tr><tr><td>5</td><td>9.4992 GHz</td><td>-54.106 dBm</td></tr></table>	CH	Freq	Power	1	2.4158 GHz	-8.164 dBm	2	25.0336 GHz	-41.192 dBm	3	4.8581 GHz	-55.353 dBm	4	7.4142 GHz	-54.355 dBm	5	9.4992 GHz	-54.106 dBm
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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)	Maximum Conducted Output Power	1 watt or 30dBm	2400-2483.5	PASS

9.3 Test procedure

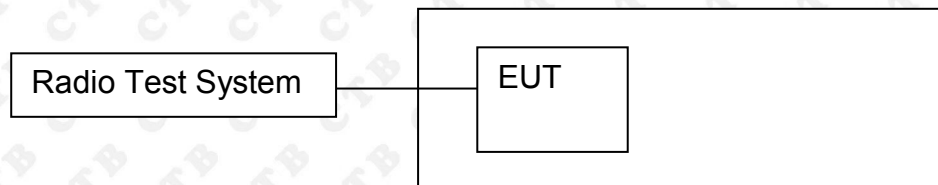
1. The EUT was directly connected to the Power meter

9.4 Test Result

Mode	Channel.	Maximum Peak Power [dBm] ant 1	Maximum Peak Power [dBm] ant 2	Maximum Peak Power [dBm] ant 3	Maximum Peak Power [dBm] ant 4	Total Power Peak Output Power(dBm)	Limit[dBm]
802.11b	LCH	14.138	14.662	14.779	14.332	/	30
	MCH	14.428	15.136	14.969	14.552	/	30
	HCH	13.767	14.861	14.473	14.154	/	30
802.11g	LCH	13.067	13.661	13.844	13.755	/	30
	MCH	13.957	14.207	14.137	14.074	/	30
	HCH	13.268	13.781	13.850	13.678	/	30
802.11n(HT20)	LCH	13.459	13.547	13.602	13.602	20.57	30
	MCH	13.559	13.937	14.092	14.092	20.95	30
	HCH	13.424	13.736	13.768	13.768	20.70	30
802.11n(HT40)	LCH	13.625	13.854	13.400	13.400	20.59	30
	MCH	13.797	14.128	13.666	13.666	20.84	30
	HCH	13.760	14.059	13.695	13.695	20.83	30

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

ANT1:

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	9.754	500	PASS
	MCH	11.040	500	PASS
	HCH	10.363	500	PASS
802.11g	LCH	16.325	500	PASS
	MCH	16.300	500	PASS
	HCH	16.347	500	PASS
802.11n(HT20)	LCH	17.077	500	PASS
	MCH	17.380	500	PASS
	HCH	16.9800	500	PASS
802.11n(HT40)	LCH	35.506	500	PASS
	MCH	35.546	500	PASS
	HCH	35.071	500	PASS

ANT2:

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	9.719	500	PASS
	MCH	9.982	500	PASS
	HCH	10.321	500	PASS
802.11g	LCH	16.39	500	PASS
	MCH	16.344	500	PASS
	HCH	16.337	500	PASS
802.11n(HT20)	LCH	17.310	500	PASS
	MCH	17.061	500	PASS
	HCH	16.819	500	PASS
802.11n(HT40)	LCH	35.681	500	PASS
	MCH	35.314	500	PASS
	HCH	35.357	500	PASS

ANT3:

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.327	500	PASS
	MCH	10.780	500	PASS
	HCH	10.030	500	PASS
802.11g	LCH	16.341	500	PASS
	MCH	16.342	500	PASS
	HCH	16.386	500	PASS
802.11n(HT20)	LCH	17.574	500	PASS
	MCH	17.338	500	PASS
	HCH	17.599	500	PASS
802.11n(HT40)	LCH	35.428	500	PASS
	MCH	35.501	500	PASS
	HCH	35.475	500	PASS

ANT4:

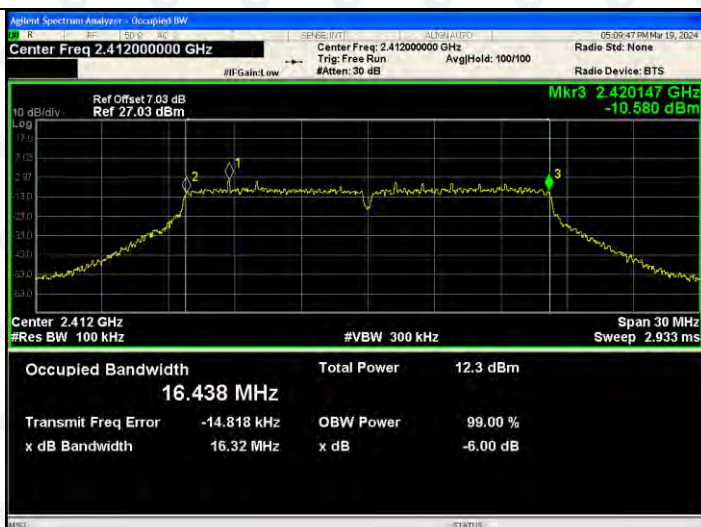
Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	9.806	500	PASS
	MCH	10.461	500	PASS
	HCH	10.589	500	PASS
802.11g	LCH	16.536	500	PASS
	MCH	16.370	500	PASS
	HCH	16.349	500	PASS
802.11n(HT20)	LCH	17.574	500	PASS
	MCH	17.338	500	PASS
	HCH	17.599	500	PASS
802.11n(HT40)	LCH	35.428	500	PASS
	MCH	35.501	500	PASS
	HCH	35.475	500	PASS

ANT1:

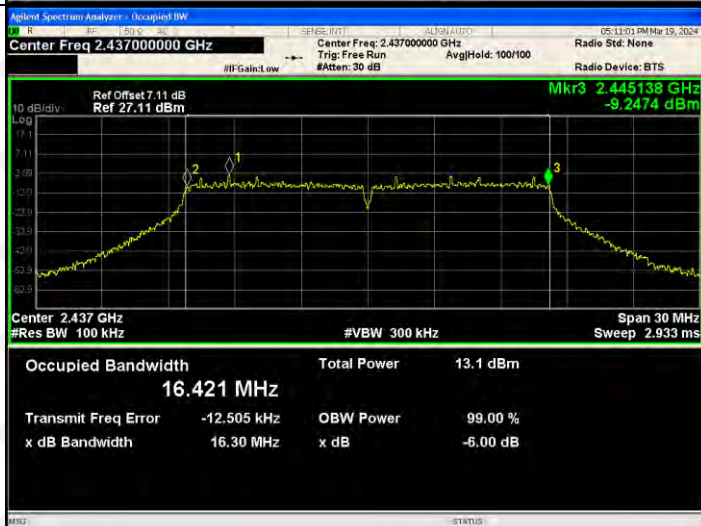
Test Graph:



802.11g/LCH

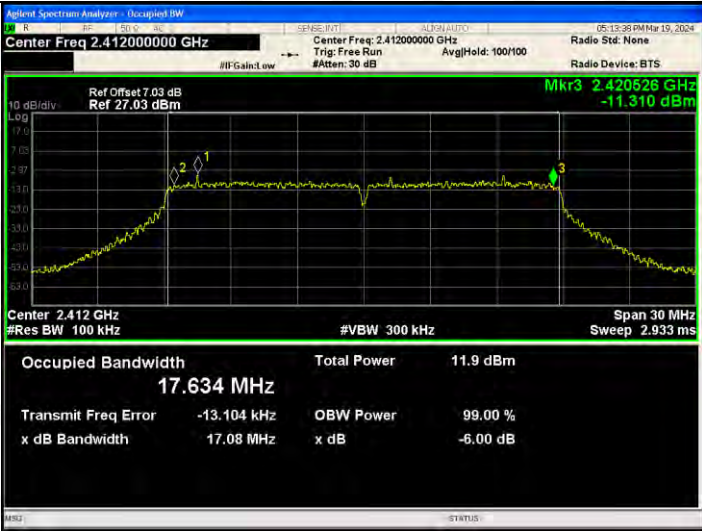
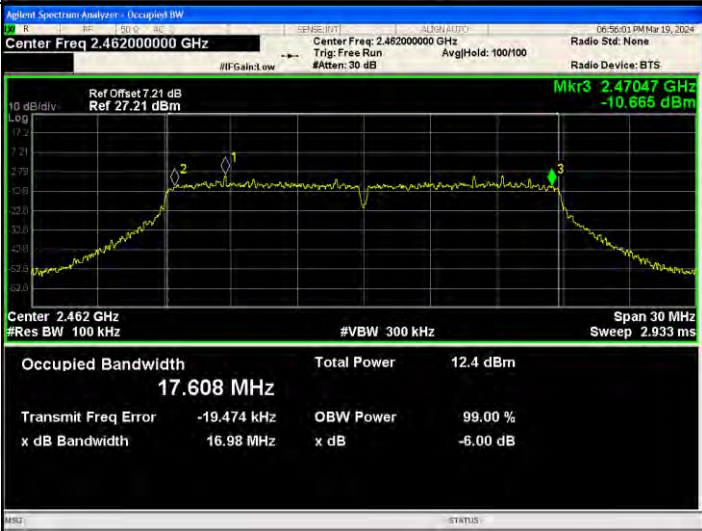


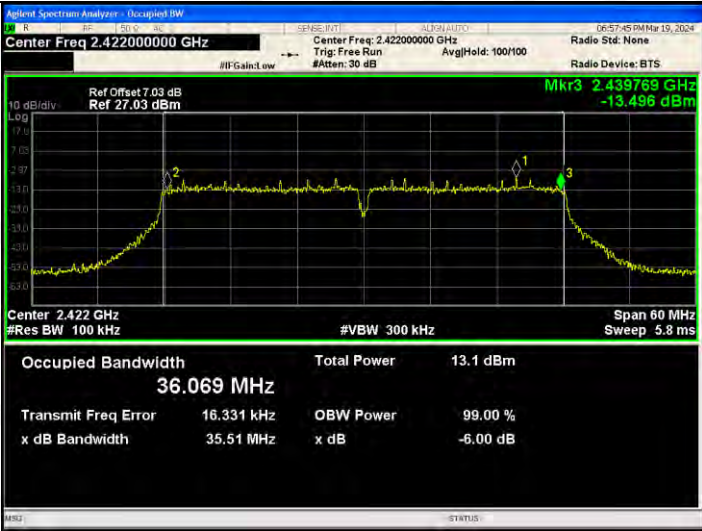
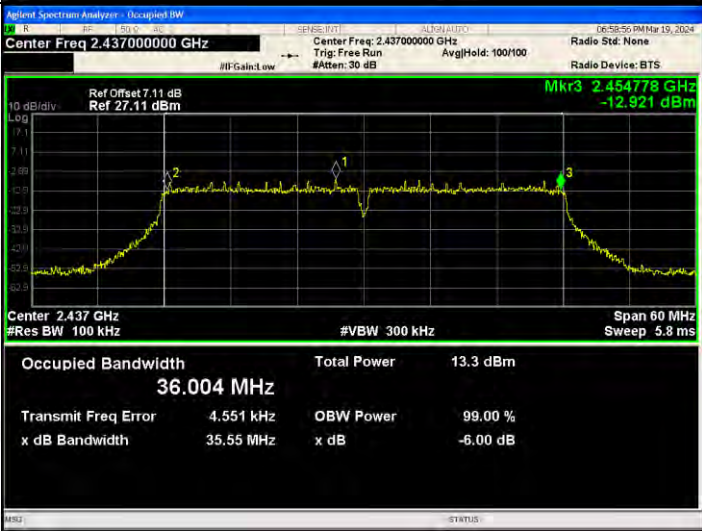
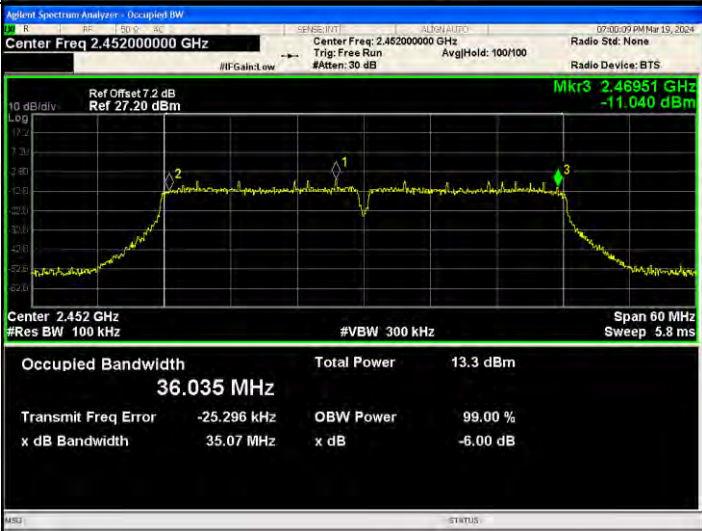
802.11g/MCH



802.11g/HCH



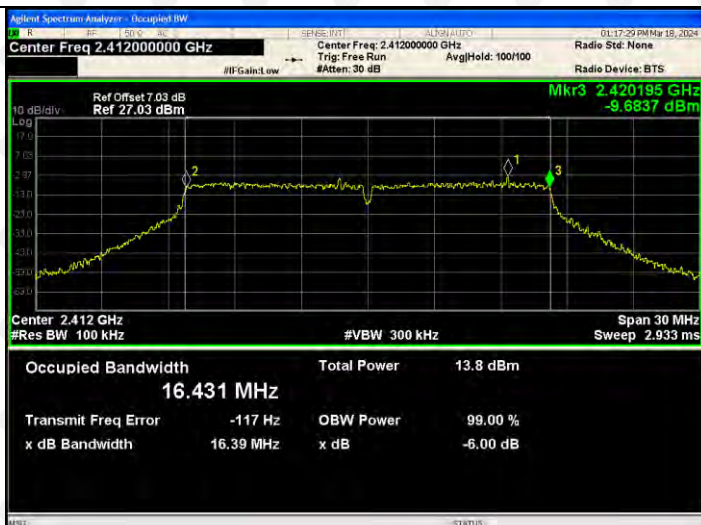
802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Ref Offset 7.03 dB Ref 27.03 dBm Occupied Bandwidth 17.634 MHz Total Power 11.9 dBm Transmit Freq Error -13.104 kHz OBW Power 99.00 % x dB Bandwidth 17.08 MHz x dB -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.11 dB Ref 27.11 dBm Occupied Bandwidth 17.597 MHz Total Power 12.7 dBm Transmit Freq Error 271 Hz OBW Power 99.00 % x dB Bandwidth 17.38 MHz x dB -6.00 dB
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.46200000 GHz Ref Offset 7.21 dB Ref 27.21 dBm Occupied Bandwidth 17.608 MHz Total Power 12.4 dBm Transmit Freq Error -19.474 kHz OBW Power 99.00 % x dB Bandwidth 16.98 MHz x dB -6.00 dB

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

ANT2:
Test Graph:



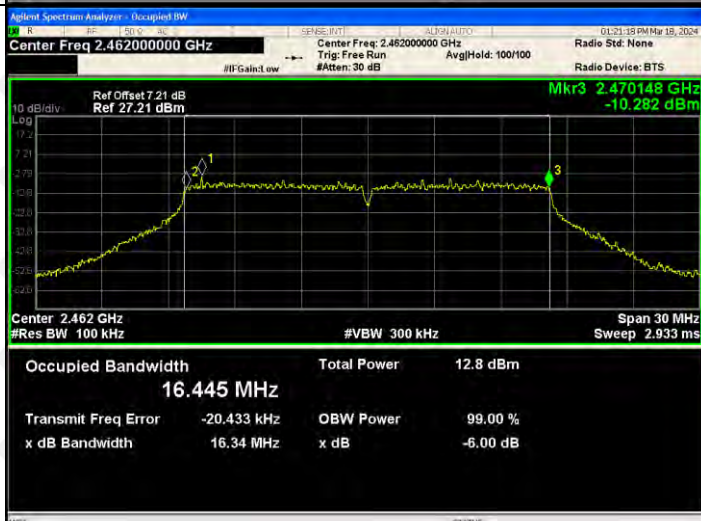
802.11g/LCH

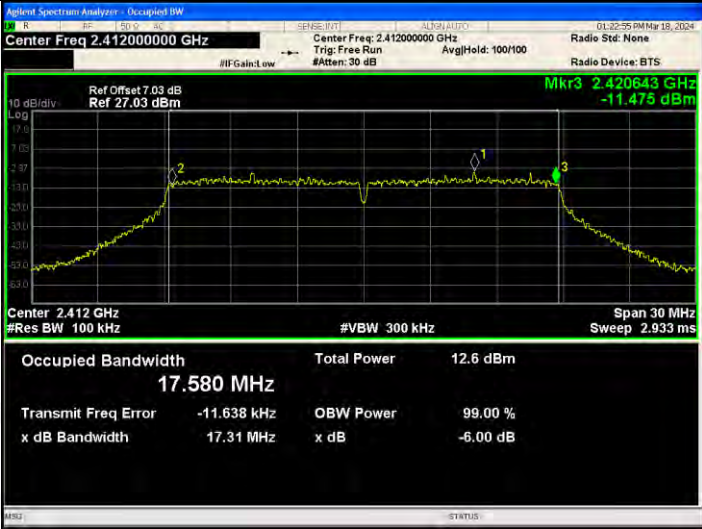
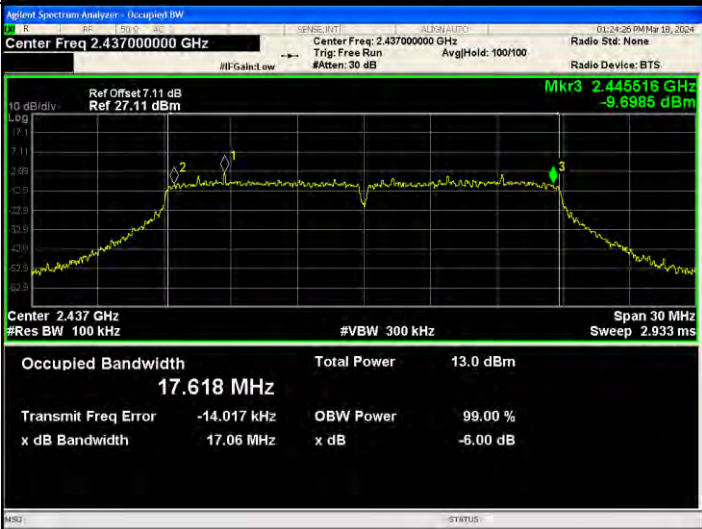
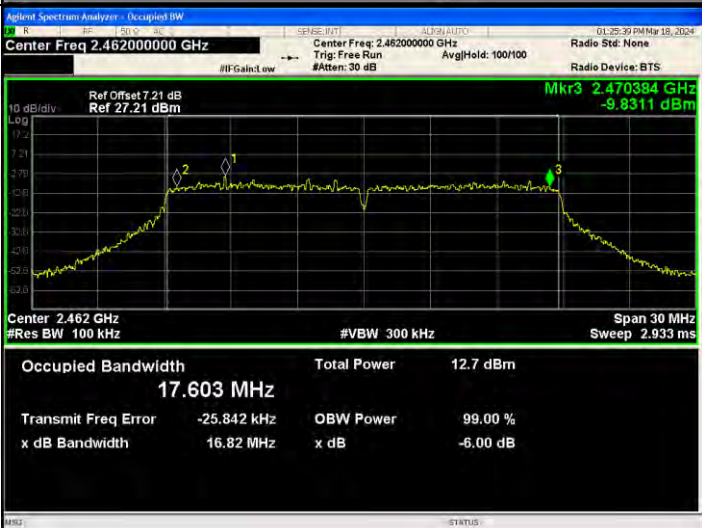


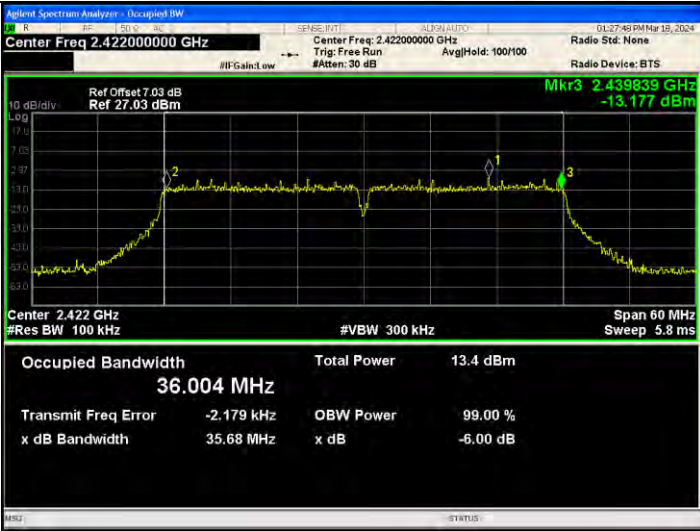
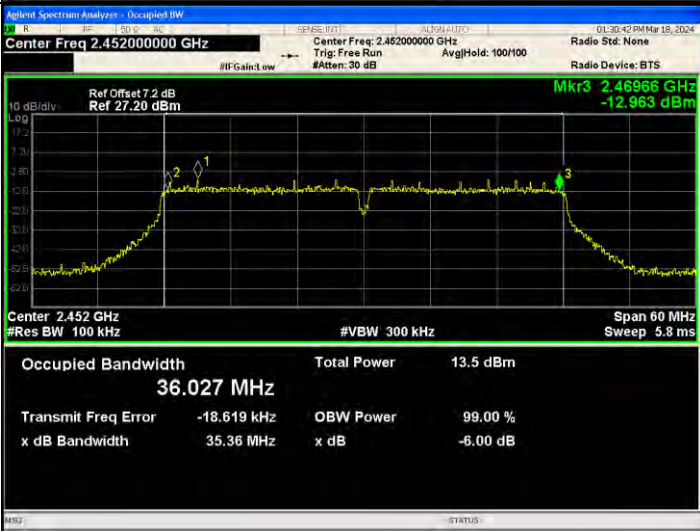
802.11g/MCH



802.11g/HCH



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

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 7.03 dB Ref 27.03 dBm Mkr3 2.439839 GHz -13.177 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.004 MHz Total Power 13.4 dBm Transmit Freq Error -2.179 kHz OBW Power 99.00 % x dB Bandwidth 35.68 MHz x dB -6.00 dB Radio Device: BTS
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.11 dB Ref 27.11 dBm Mkr3 2.454665 GHz -12.361 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 35.987 MHz Total Power 13.7 dBm Transmit Freq Error 7.440 kHz OBW Power 99.00 % x dB Bandwidth 35.31 MHz x dB -6.00 dB Radio Device: BTS
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.45200000 GHz Ref Offset 7.2 dB Ref 27.20 dBm Mkr3 2.46966 GHz -12.963 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.027 MHz Total Power 13.5 dBm Transmit Freq Error -18.619 kHz OBW Power 99.00 % x dB Bandwidth 35.36 MHz x dB -6.00 dB Radio Device: BTS