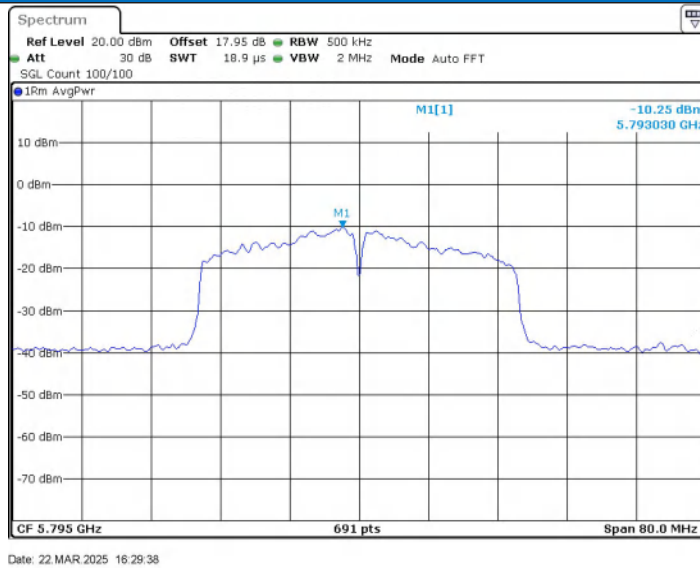
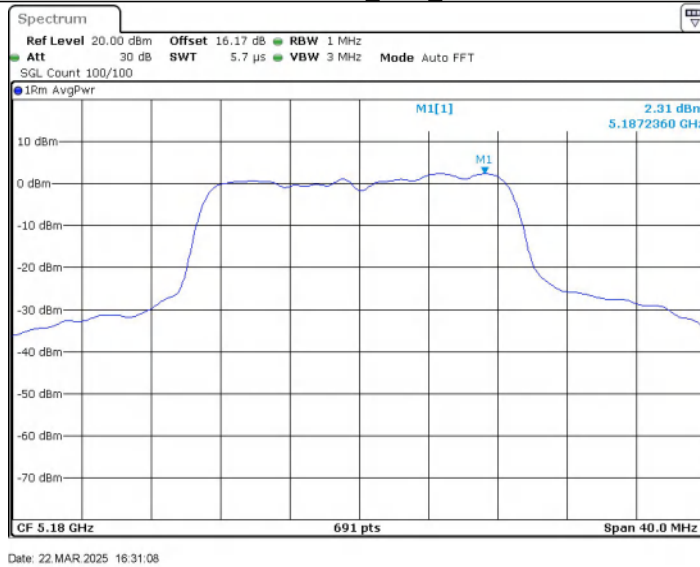
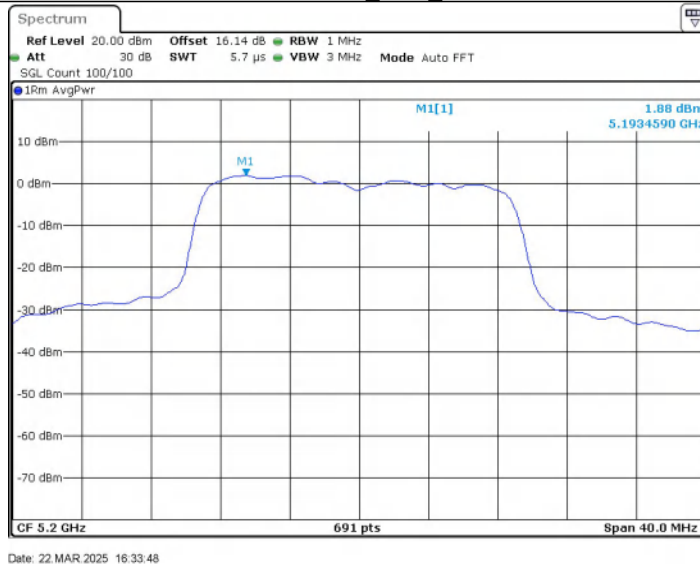




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11AC20SISO_Ant1_5200

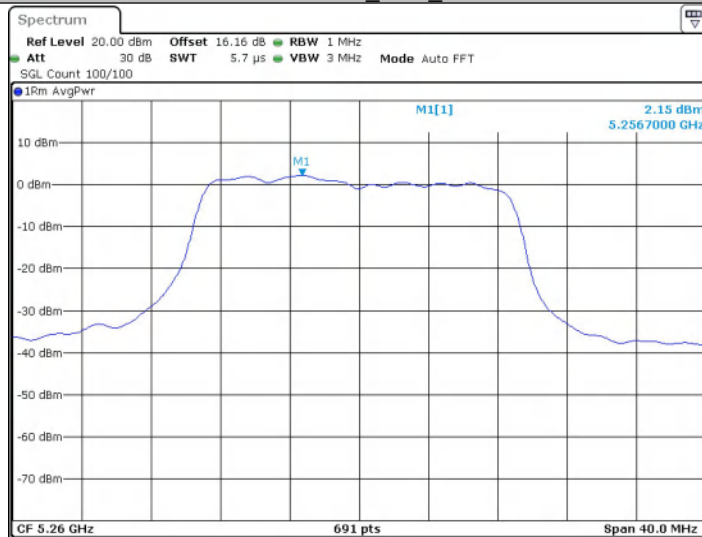


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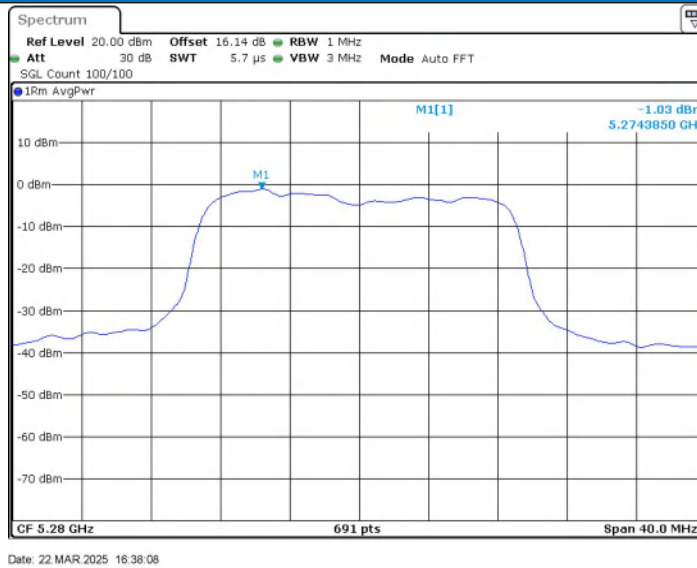
Date: 22 MAR 2025 16:35:09

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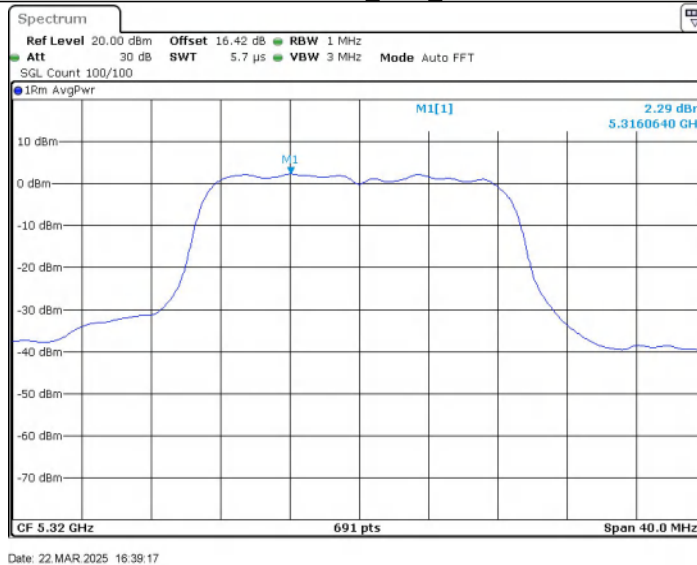


Date: 22 MAR 2025 16:36:38

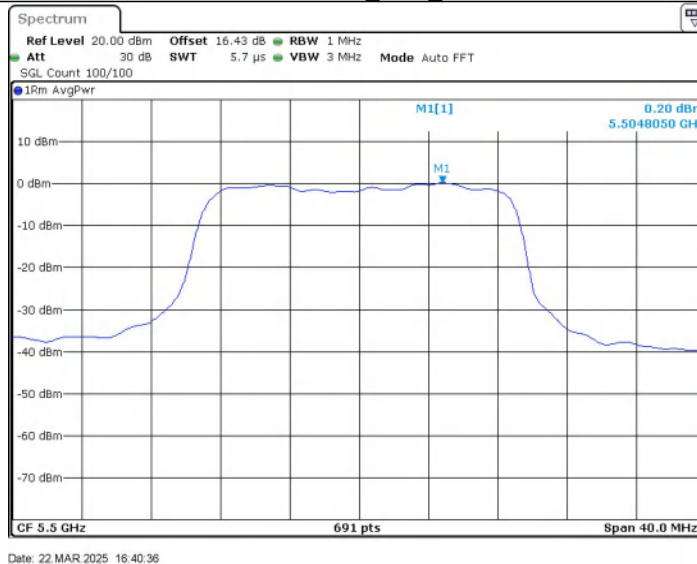
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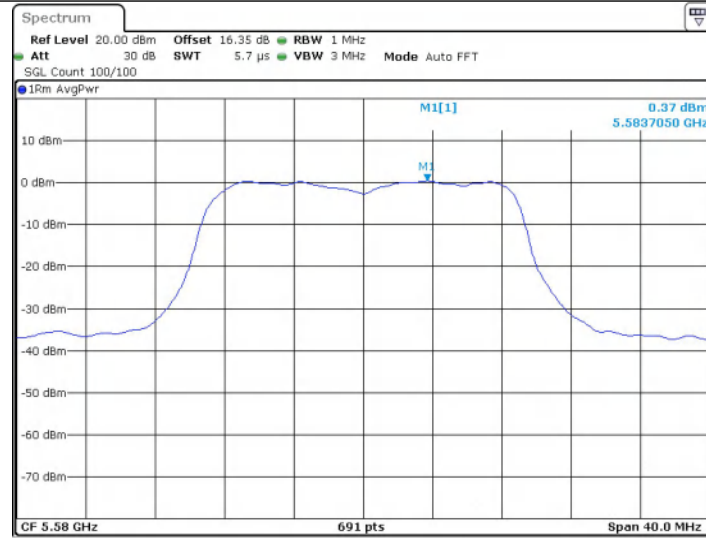
11AC20SISO_Ant1_5320



11AC20SISO_Ant1_5500

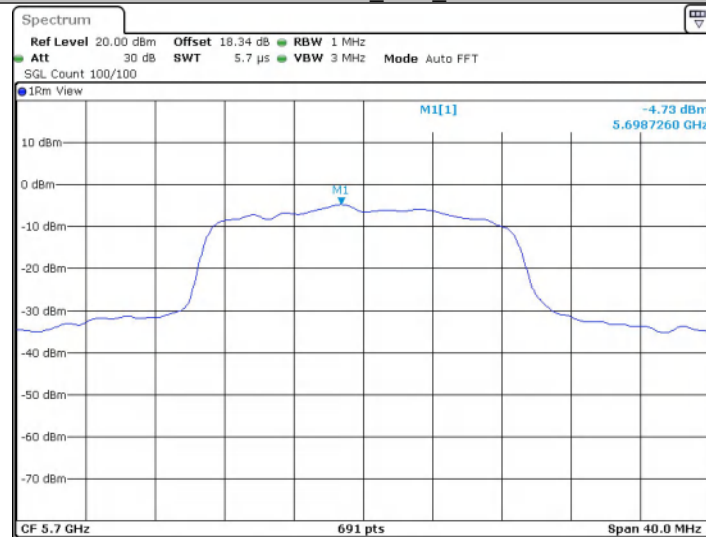


11AC20SISO_Ant1_5580



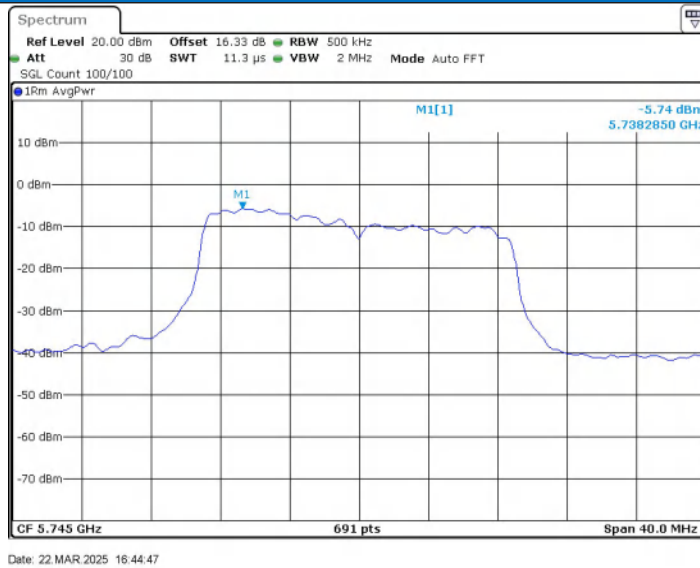
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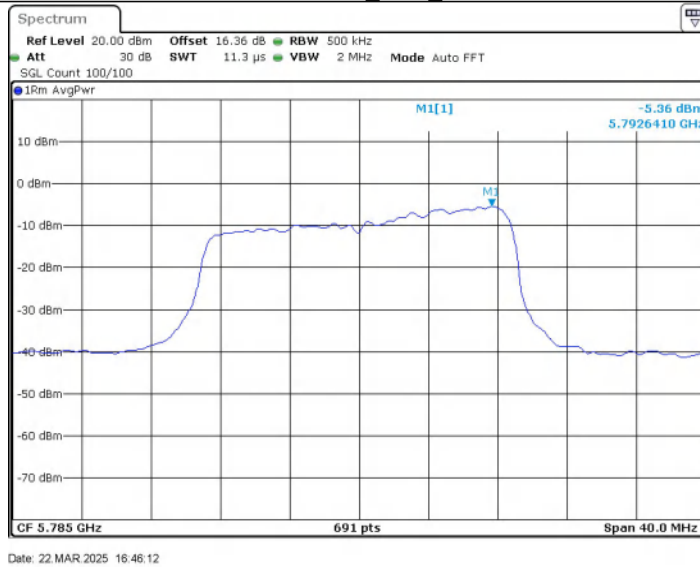


Date: 9 JUN 2025 12:00:15

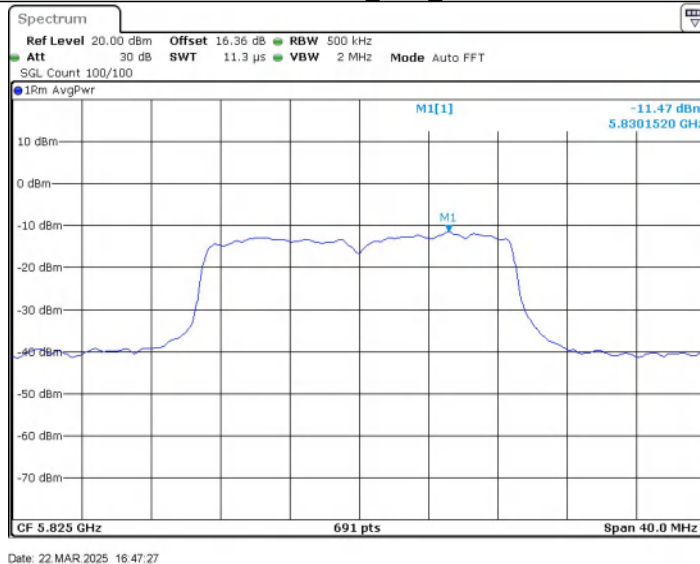
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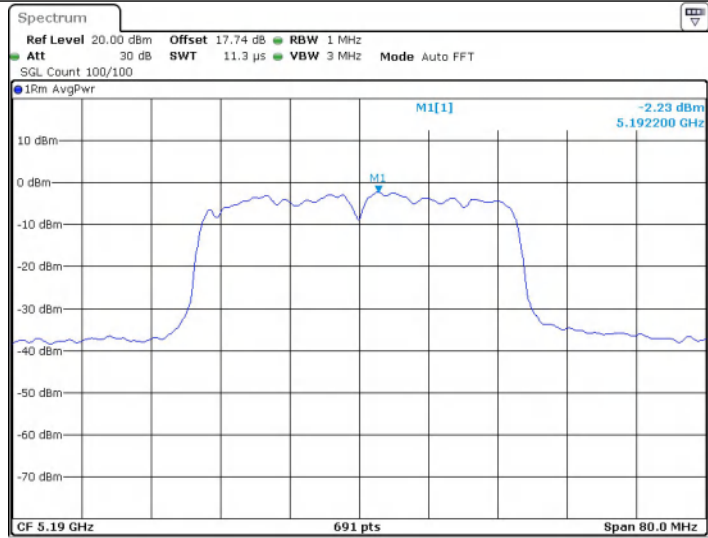
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11AC20SISO_Ant1_5825

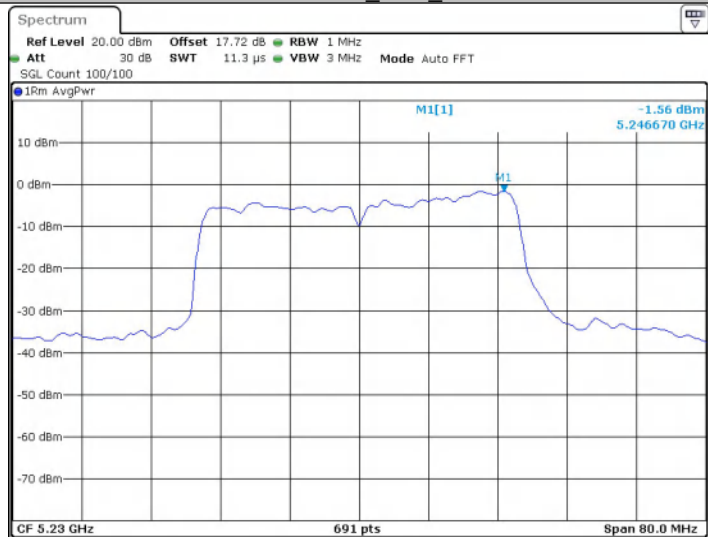


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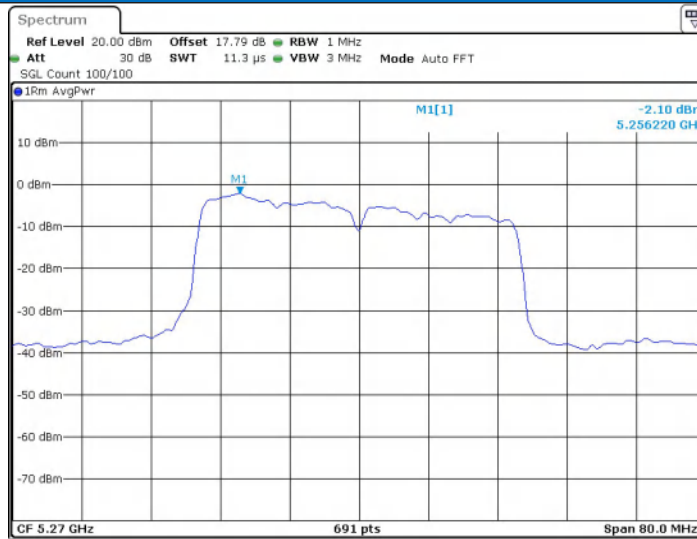
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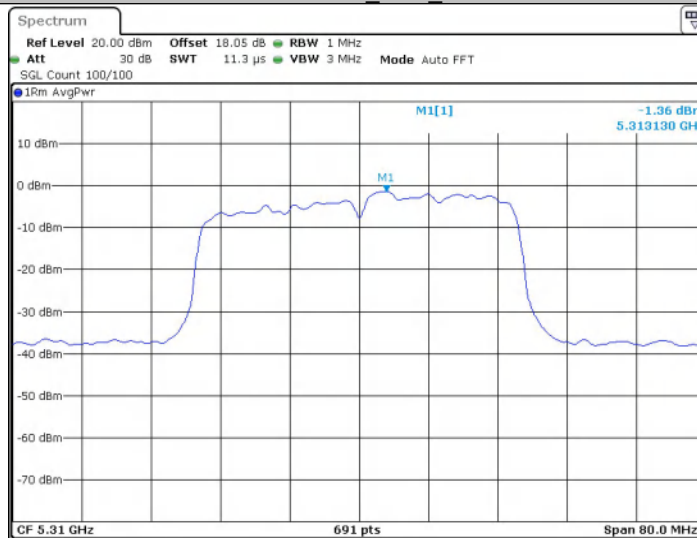
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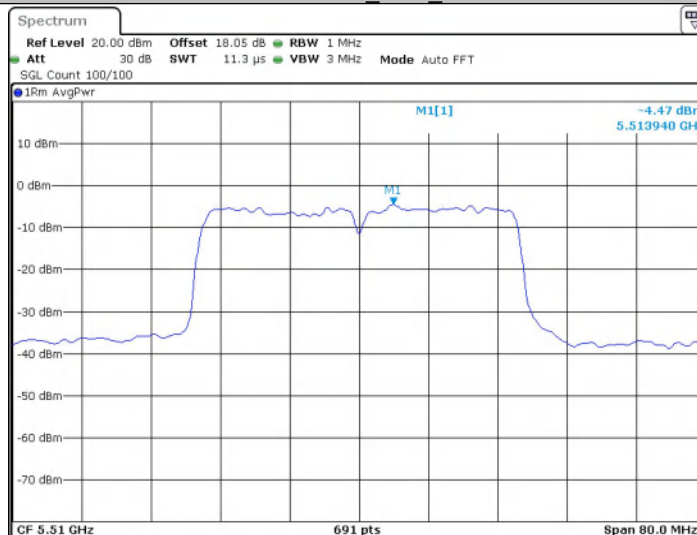
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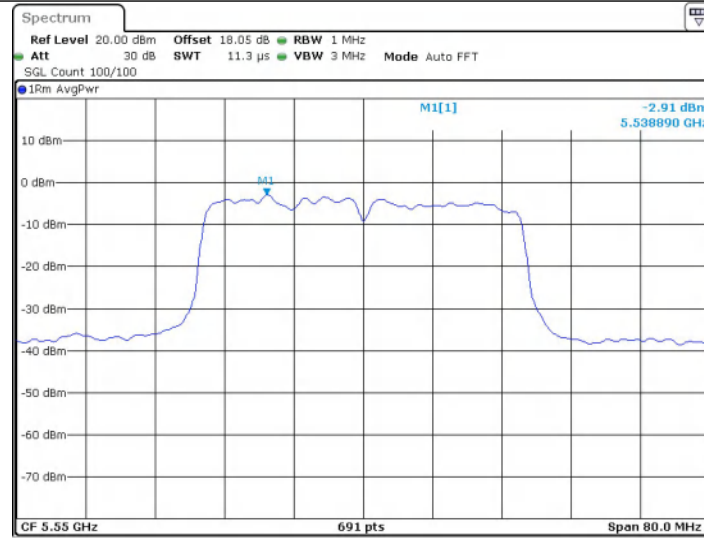
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11AC40SISO_Ant1_5510



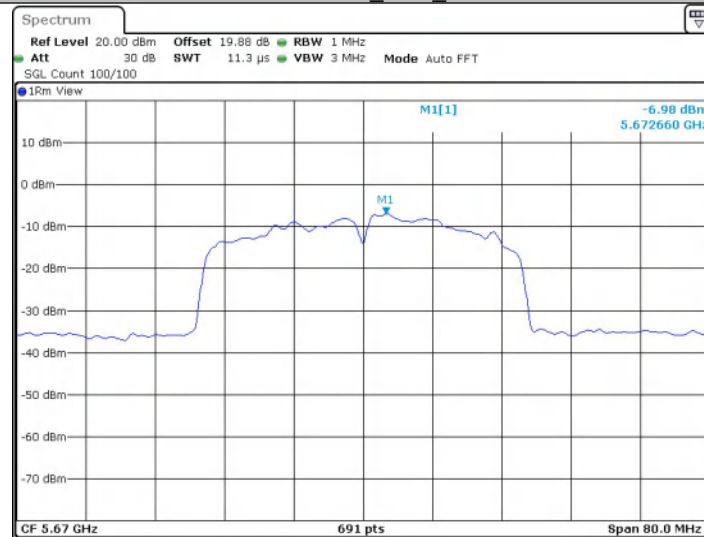
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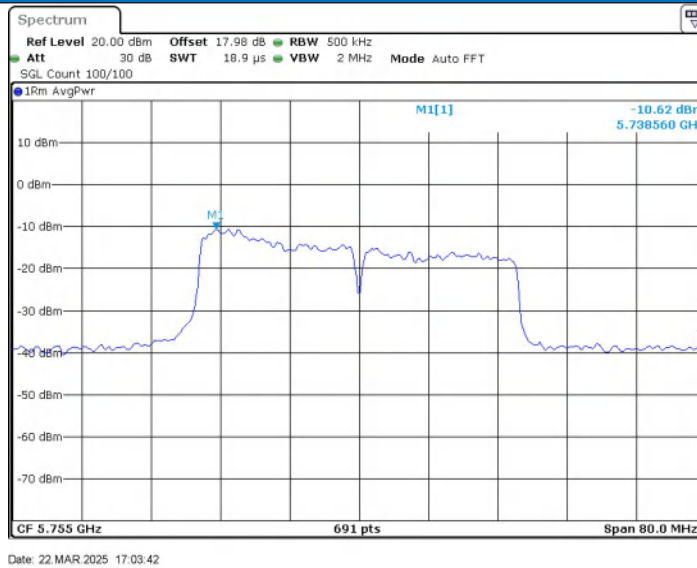
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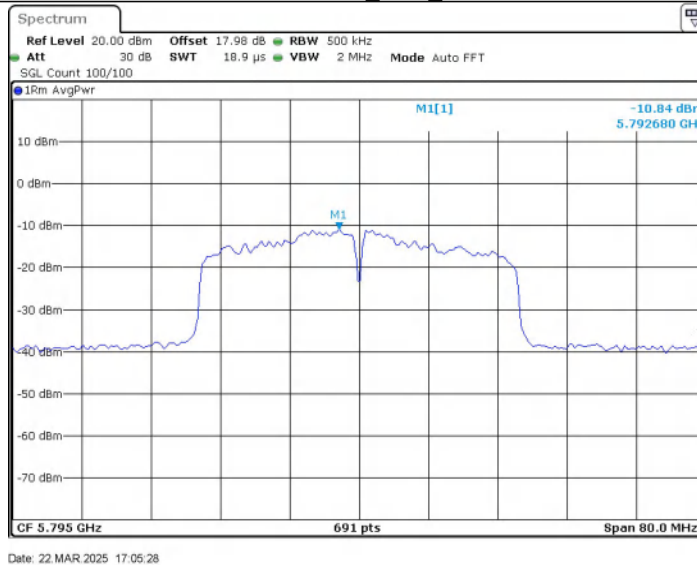


Date: 9 JUN 2025 11:34:08

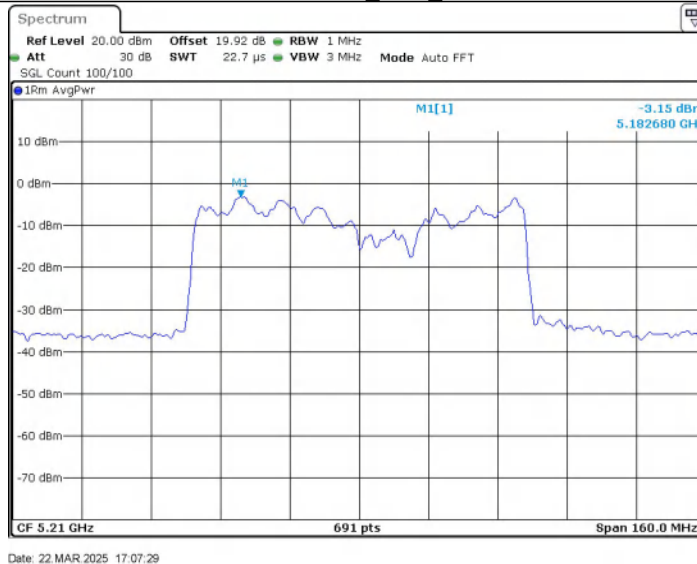
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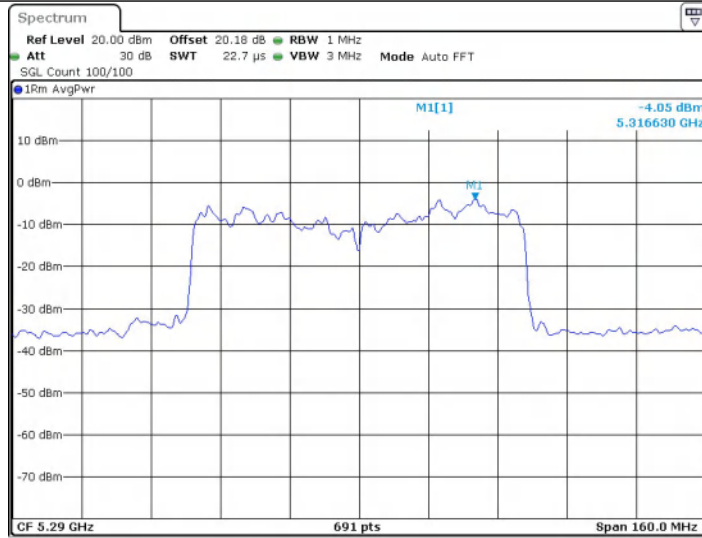
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210

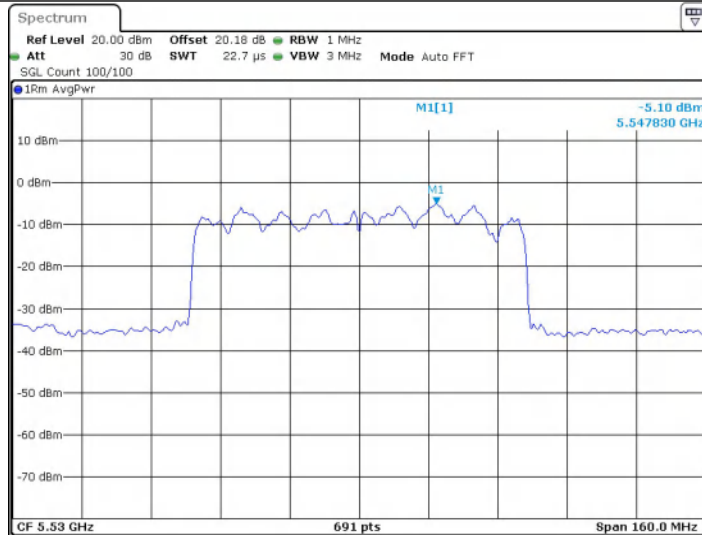


11AC80SISO_Ant1_5290



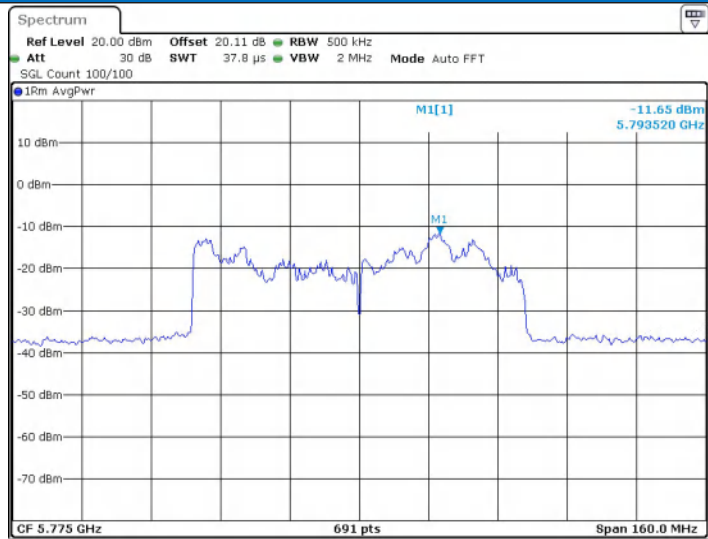
Date: 22 MAR 2025 17:09:23

11AC80SISO_Ant1_5530



Date: 22 MAR 2025 17:11:18

11AC80SISO_Ant1_5775



Date: 22 MAR 2025 17:21:02

Appendix D): Band Edge Measurements

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

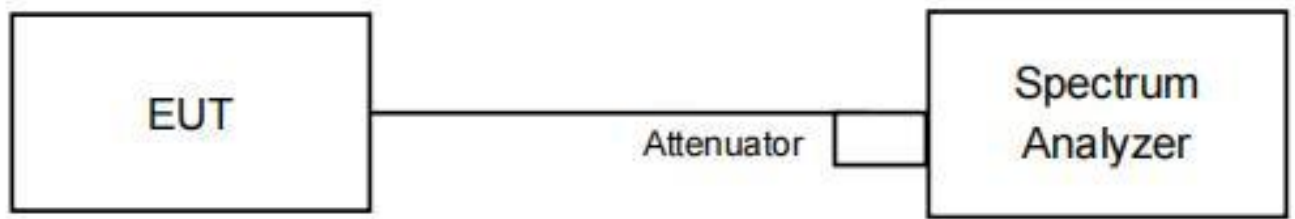
Test Procedure:

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

Limit:

For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

Test Setup Diagram



7.1.1 Test Result B1/2/3

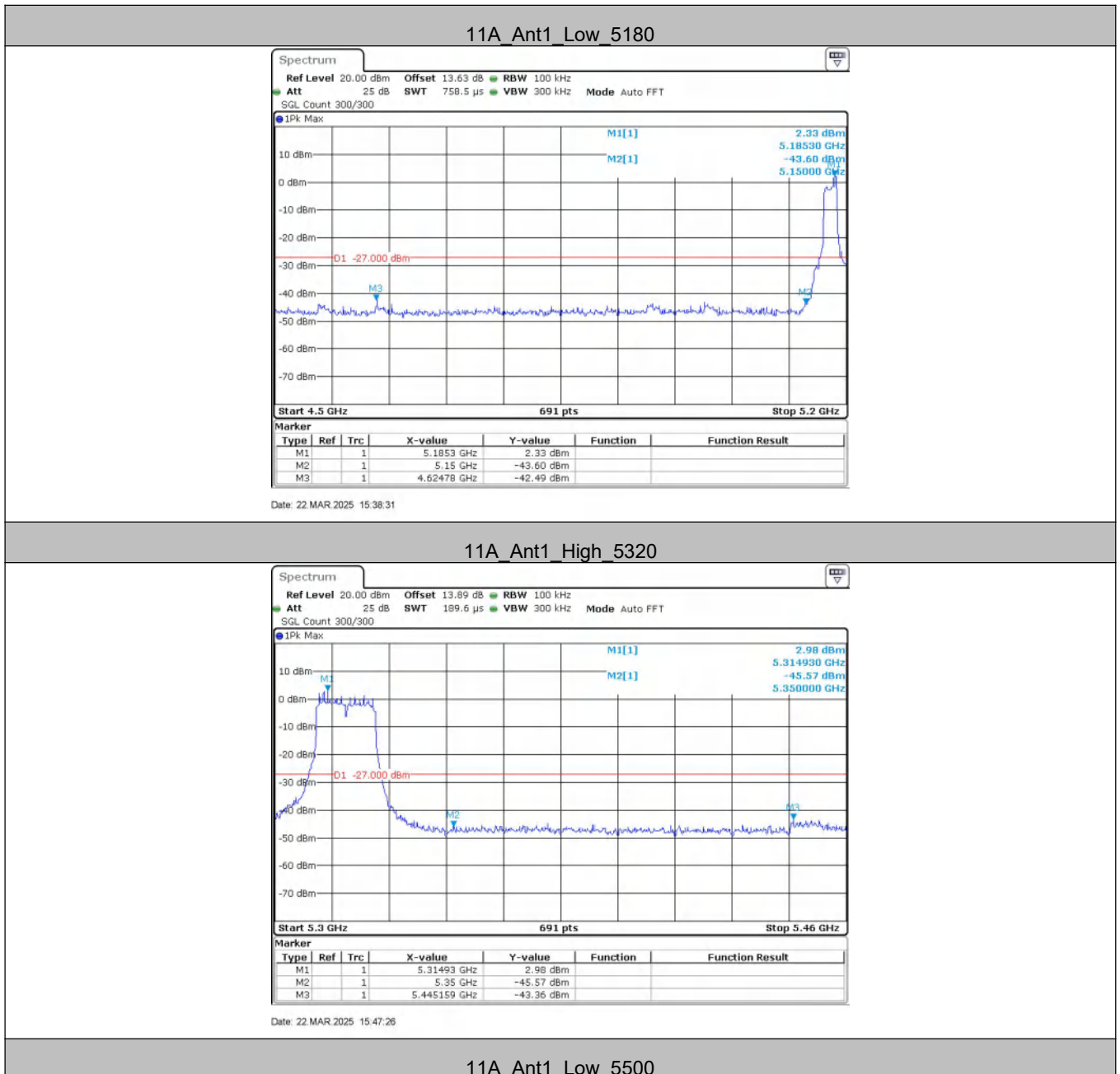
TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Low	5180	-42.49	≤ -27	PASS
	High	5320	-43.36	≤ -27	PASS
	Low	5500	-42.89	≤ -27	PASS
11N20SISO	Low	5180	-41.92	≤ -27	PASS
	High	5320	-43.71	≤ -27	PASS
	Low	5500	-42.84	≤ -27	PASS
11N40SISO	Low	5190	-42.45	≤ -27	PASS
	High	5310	-43.8	≤ -27	PASS
	Low	5510	-43.45	≤ -27	PASS
11AC20SISO	Low	5180	-43.49	≤ -27	PASS
	High	5320	-43.75	≤ -27	PASS
	Low	5500	-43.64	≤ -27	PASS
11AC40SISO	Low	5190	-42	≤ -27	PASS
	High	5310	-43.31	≤ -27	PASS
	Low	5510	-43.43	≤ -27	PASS
11AC80SISO	Low	5210	-41.9	≤ -27	PASS
	High	5290	-43.69	≤ -27	PASS
	Low	5530	-41.27	≤ -27	PASS

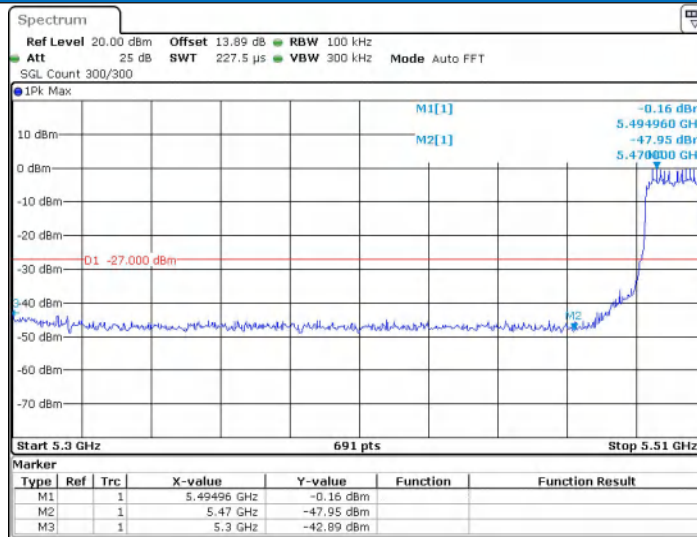
7.1.2 Test Result B4

TestMode	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Low	5745	5650~5700	-46.88	≤ -26.88	PASS
			5700~5720	-45.31	≤ 10.56	PASS
			5720~5725	-45.43	≤ 17.12	PASS
			5760~5650	-45.91	≤ -27	PASS
	High	5825	5850~5855	-43.48	≤ 16.10	PASS
			5855~5875	-44	≤ 10.68	PASS
			5875~5925	-42.33	≤ -23.83	PASS
			5925~5935	-43.8	≤ -27	PASS
11N20SISO	Low	5745	5650~5700	-45.91	≤ -26.88	PASS
			5700~5720	-45.3	≤ 10.47	PASS
			5720~5725	-45.21	≤ 16.36	PASS
			5760~5650	-44.75	≤ -27	PASS

	High	5825	5850~5855	-45.65	≤ 15.65	PASS
			5855~5875	-43.95	≤ 10.79	PASS
			5875~5925	-44.82	≤ -26.73	PASS
			5925~5935	-43.47	≤ -27	PASS
11N40SISO	Low	5755	5650~5700	-46.75	≤ -26.79	PASS
			5700~5720	-45.19	≤ 10.21	PASS
			5720~5725	-41.9	≤ 16.79	PASS
			5780~5650	-45.58	≤ -27	PASS
	High	5795	5850~5855	-45.49	≤ 15.85	PASS
			5855~5875	-43.24	≤ 11.01	PASS
			5875~5925	-43.57	≤ -25.20	PASS
			5925~5935	-42.84	≤ -27	PASS
11AC20SISO	Low	5745	5650~5700	-46.36	≤ -26.63	PASS
			5700~5720	-45.88	≤ 10.09	PASS
			5720~5725	-45.53	≤ 16.36	PASS
			5760~5650	-45.41	≤ -27	PASS
	High	5825	5850~5855	-45.87	≤ 15.65	PASS
			5855~5875	-44.97	≤ 10.02	PASS
			5875~5925	-45.02	≤ -26.73	PASS
			5925~5935	-43.53	≤ -27	PASS
11AC40SISO	Low	5755	5650~5700	-46.06	≤ -26.94	PASS
			5700~5720	-44.94	≤ 10.05	PASS
			5720~5725	-42.87	≤ 18.13	PASS
			5780~5650	-44.39	≤ -27	PASS
	High	5795	5850~5855	-45.22	≤ 15.85	PASS
			5855~5875	-43.58	≤ 11.14	PASS
			5875~5925	-44.35	≤ -26.26	PASS
			5925~5935	-43.89	≤ -27	PASS
11AC80SISO	Low	5775	5650~5700	-45.18	≤ -26.71	PASS
			5700~5720	-44.4	≤ 10.07	PASS
			5720~5725	-43.03	≤ 15.67	PASS
			5800~5650	-45.29	≤ -27	PASS
	High	5775	5850~5855	-44.71	≤ 16.59	PASS
			5855~5875	-44.52	≤ 10.09	PASS
			5875~5925	-44.95	≤ -26.86	PASS
			5925~5935	-43.65	≤ -27	PASS

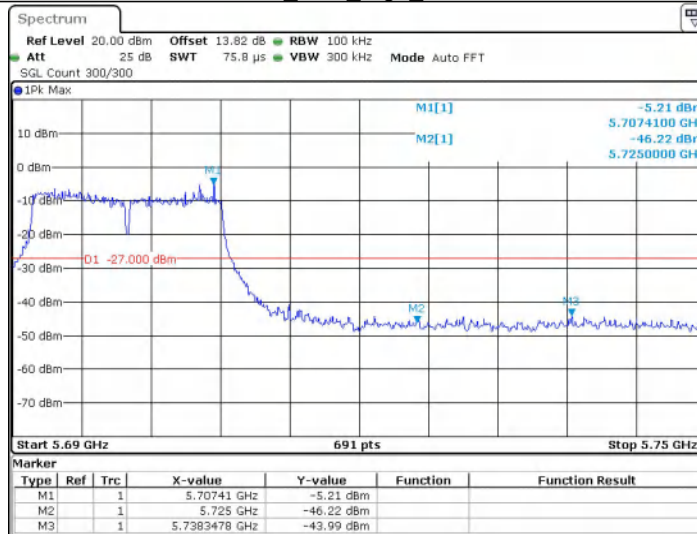
7.1.3 Test Graphs B1/2/3





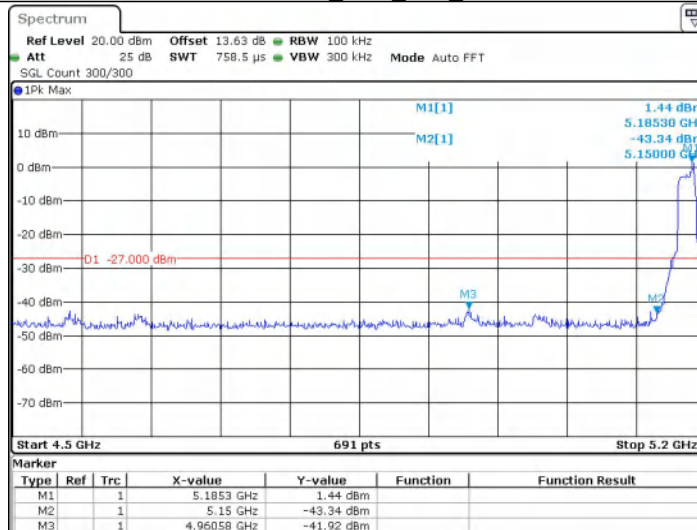
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11A Ant1_High_5700



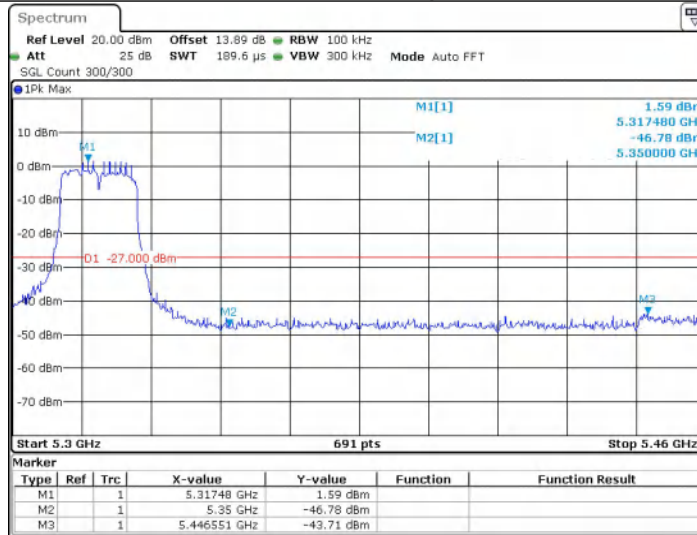
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11N20SISO_Ant1_Low_5180



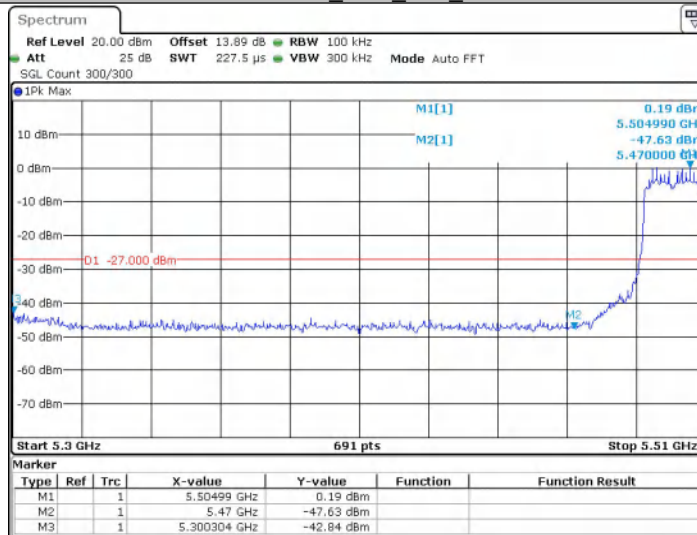
Date: 22 MAR 2025 16:00:56

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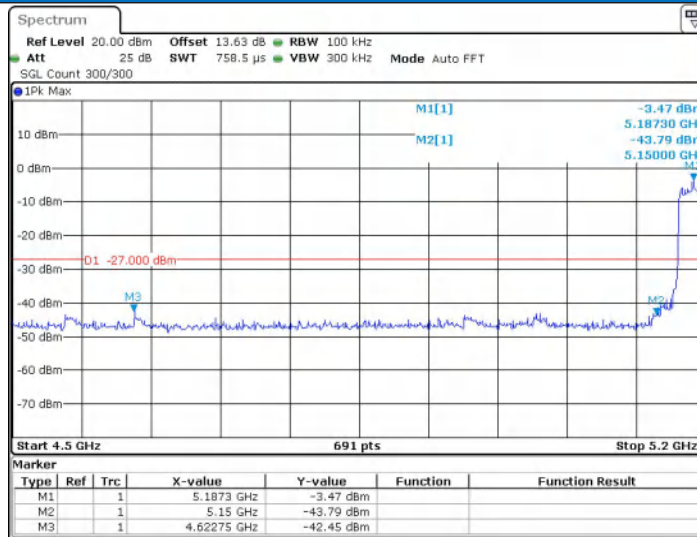
Date: 22 MAR 2025 16:07:02

11N20SISO_Ant1_Low_5500



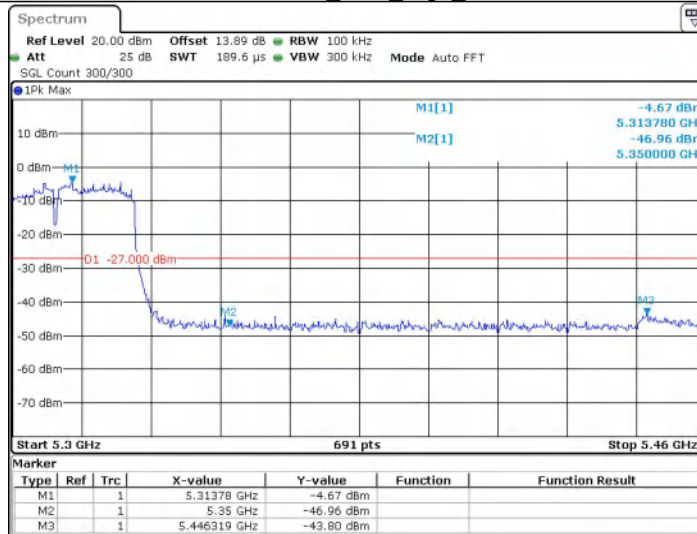
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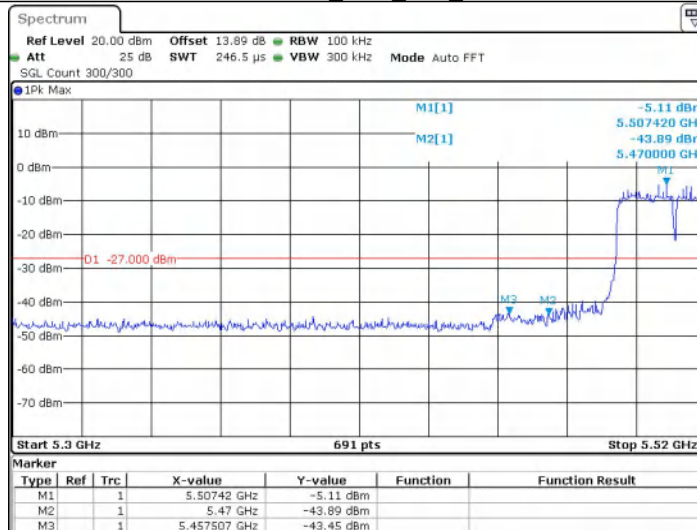
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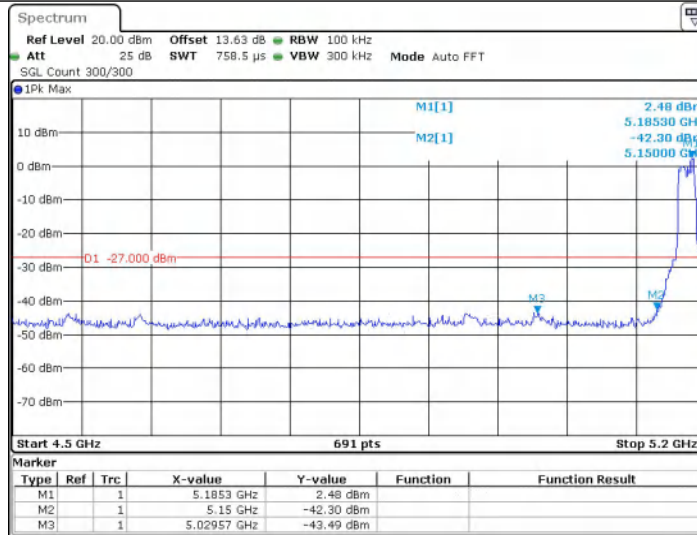
Date: 22 MAR 2025 16:22:35

11N40SISO_Ant1_Low_5510



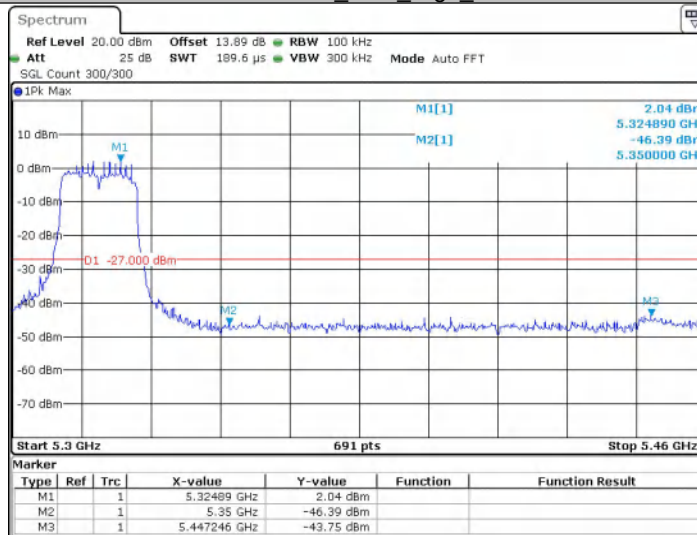
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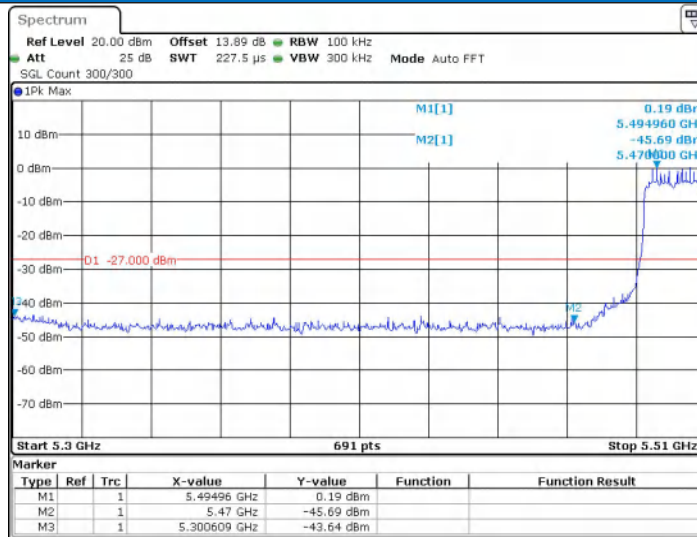
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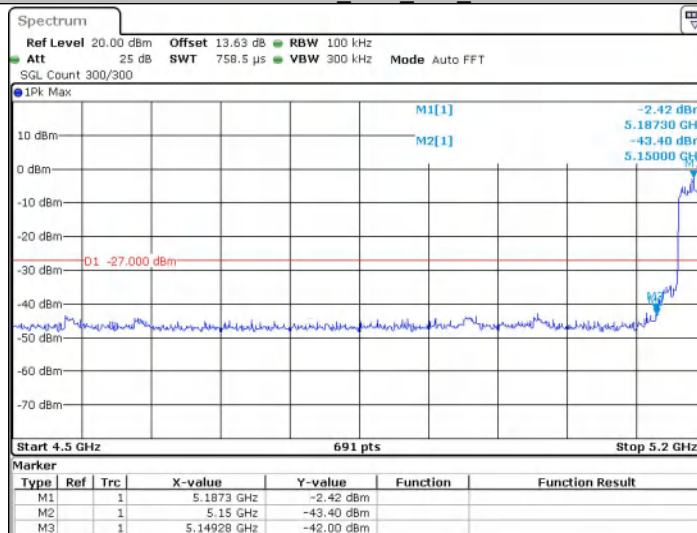
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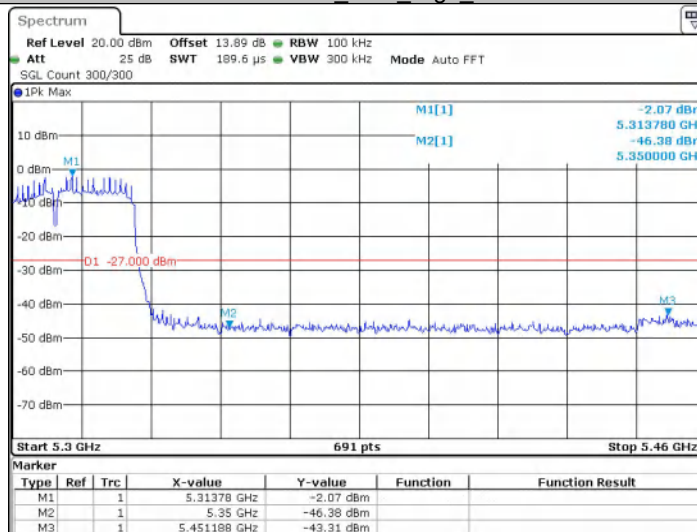
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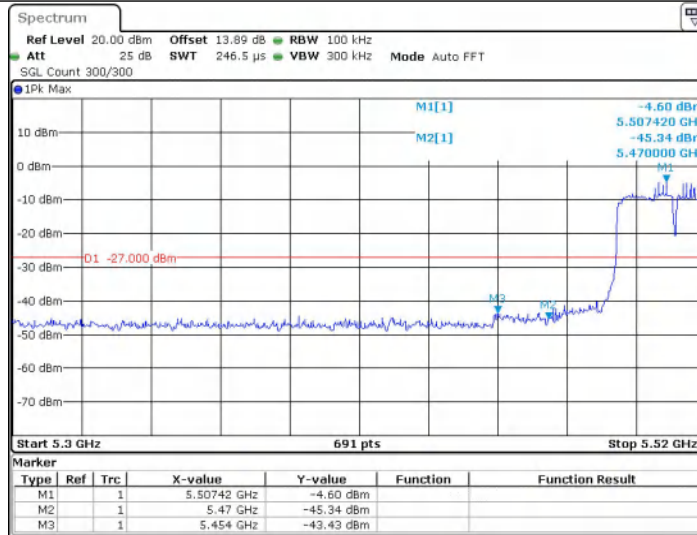
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11AC40SISO_Ant1_High_5310



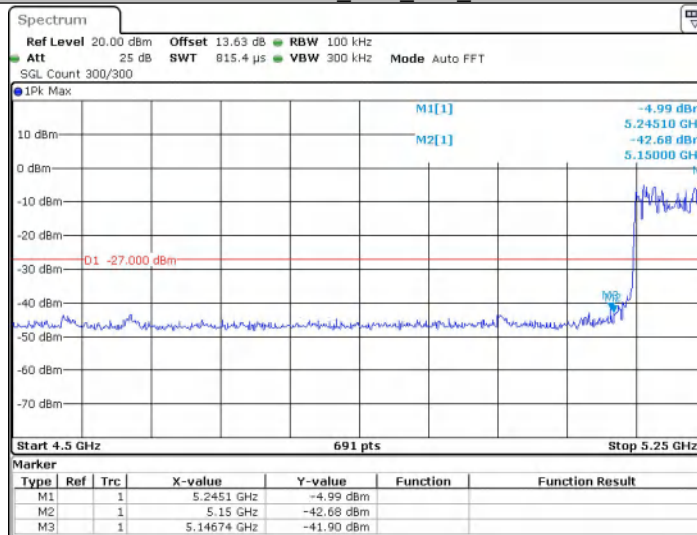
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11AC40SISO_Ant1_Low_5510



Date: 22 MAR 2025 16:56:47

11AC80SISO_Ant1_Low_5210



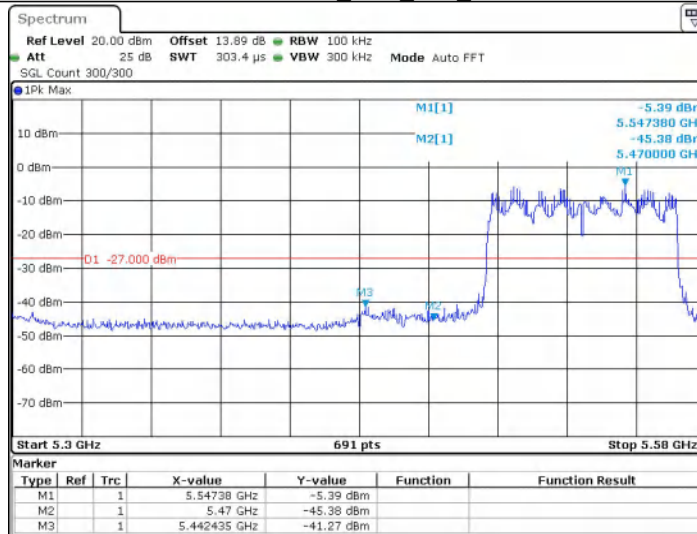
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11AC80SISO_Ant1_High_5290



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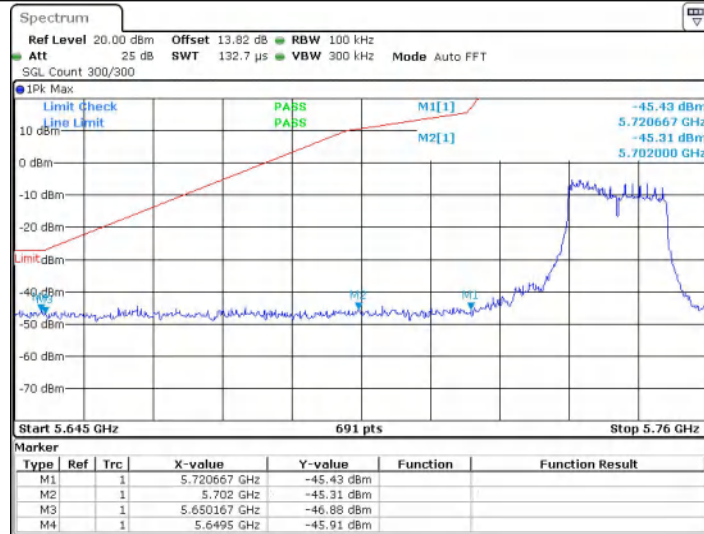
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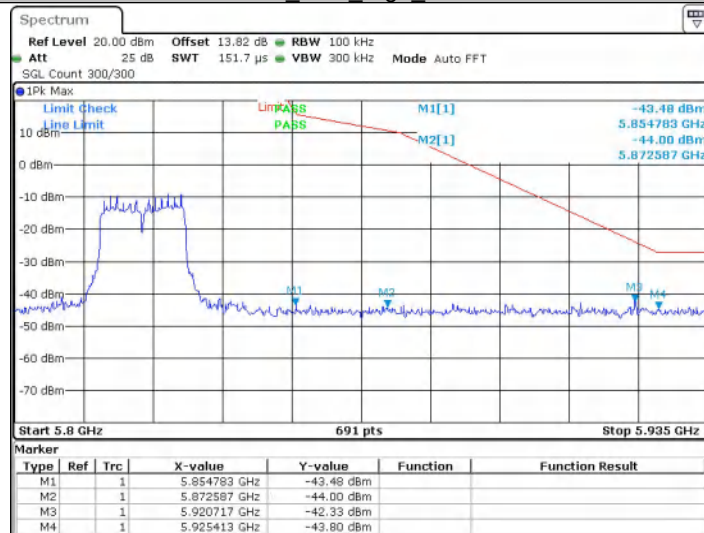
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7.1.4 Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825

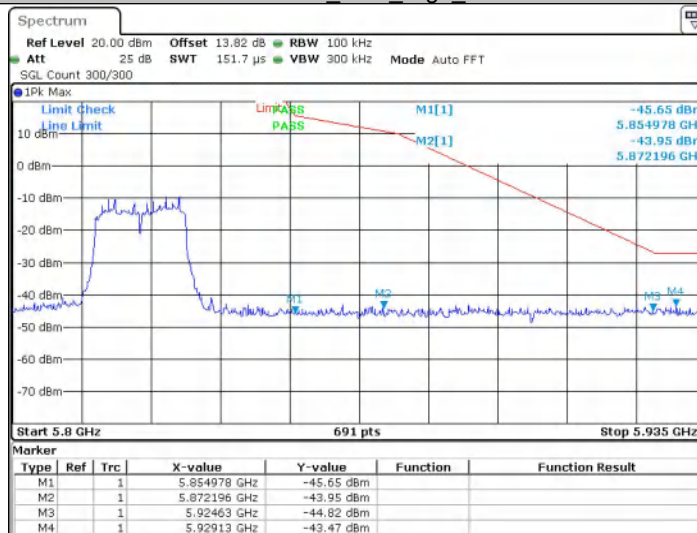


11N20SISO_Ant1_Low_5745



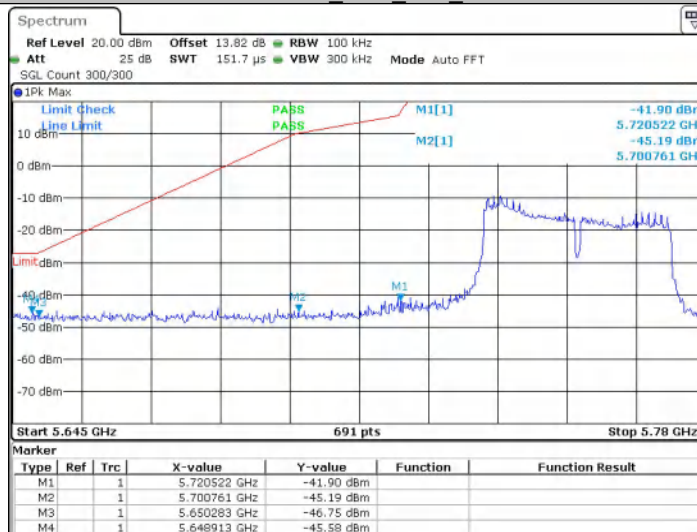
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11N20SISO_Ant1_High_5825



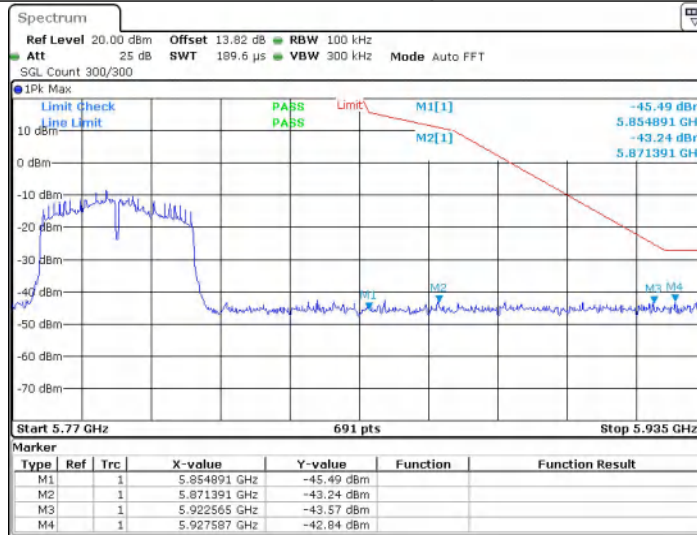
Date: 22 MAR 2025 16:15:28

11N40SISO_Ant1_Low_5755



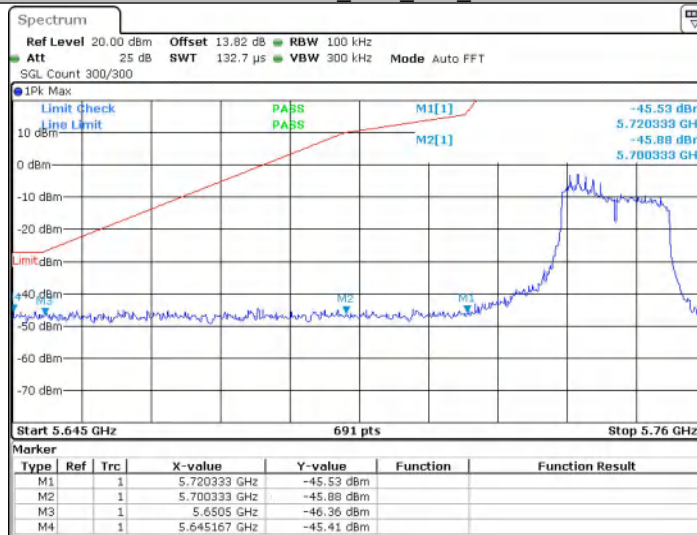
Date: 22 MAR 2025 16:28:06

11N40SISO_Ant1_High_5795



Date: 22 MAR 2025 16:29:48

11AC20SISO_Ant1_Low_5745



Date: 22 MAR 2025 16:44:55

11AC20SISO_Ant1_High_5825



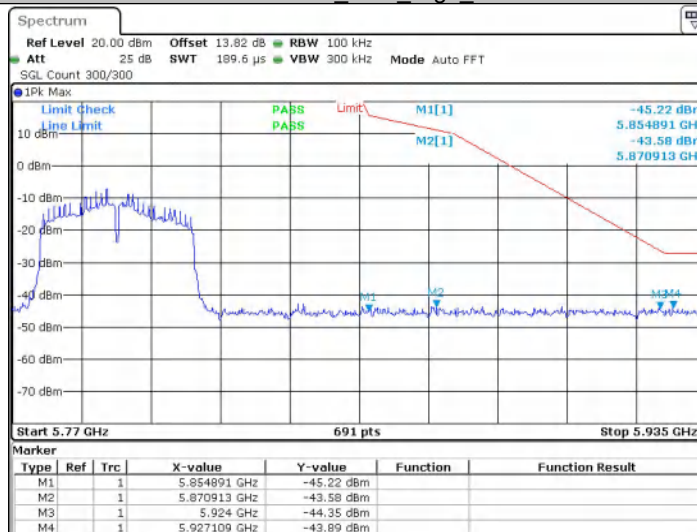
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11AC40SISO_Ant1_Low_5755



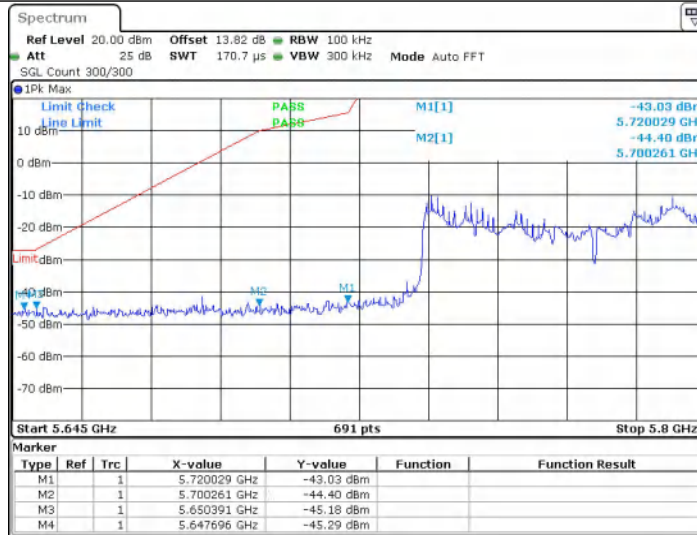
Date: 22 MAR 2025 17:03:50

11AC40SISO_Ant1_High_5795



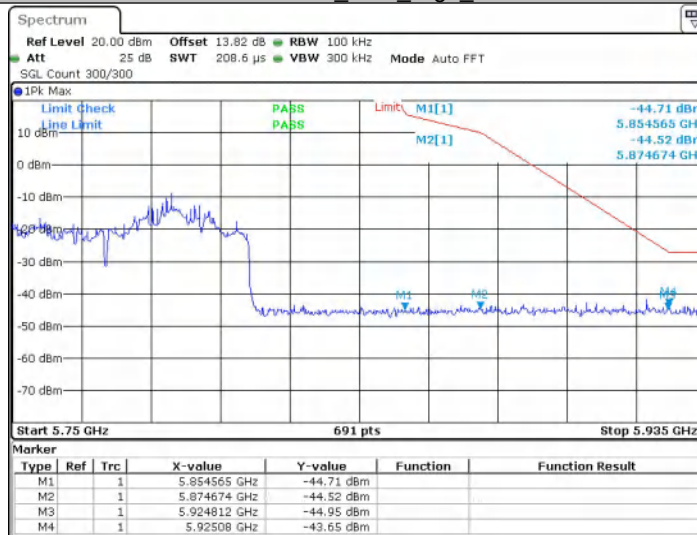
Date: 22 MAR 2025 17:05:37

11AC80SISO_Ant1_Low_5775



Date: 22 MAR 2025 17:21:12

11AC80SISO_Ant1_High_5775



Date: 22 MAR 2025 17:21:26

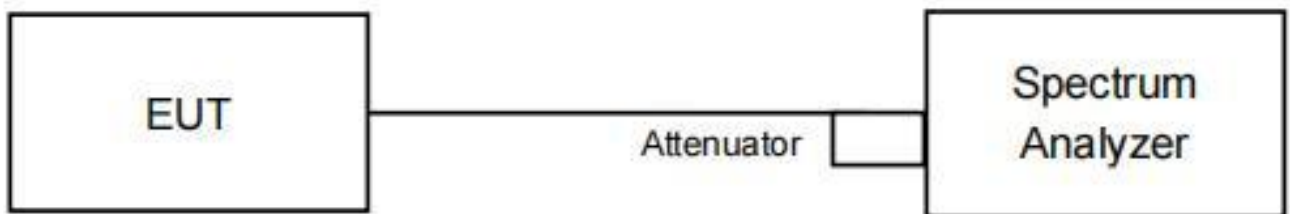
Appendix E): Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

Test Setup Diagram



Measurement Data

Frequency Stability Versus Temp.			
Operating Frequency: 5240 MHz			
Temp	Voltage	Measured Frequency	Frequency Drift
(°C)		(MHz)	(ppm)
50	VN	5240.03	5.72519
40		5240.02	3.81679
30		5240.01	1.90840
20		5240.02	3.81679
10		5240.02	3.81679
0		5240.01	1.90840
-10		5240.02	3.81679
-30		5240.03	5.72519

Frequency Stability Versus Temp.			
Operating Frequency: 5210 MHz			
Temp.	Voltage	Measured Frequency	Frequency Drift
		(MHz)	(ppm)
TN	VL	5210.00	0.00000
	VN	5210.03	5.75816
	VH	5210.02	3.83877

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

Appendix F): Antenna Requirement

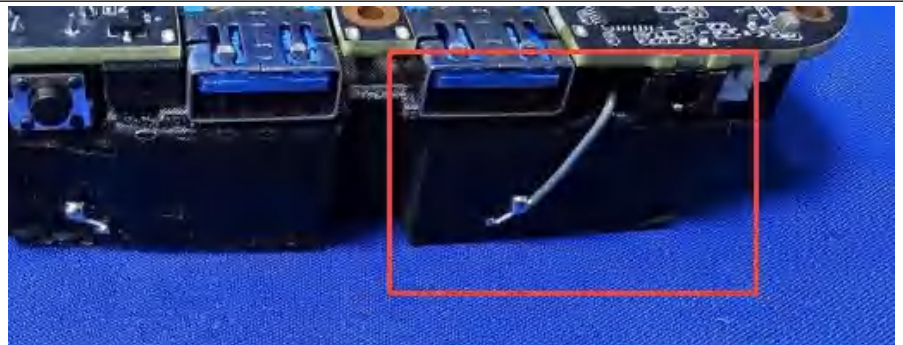
15.203 requirement:

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.

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is FPC antenna.

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling.

This is either permanently attachment or a unique coupling that satisfies the requirement.

Appendix G): Operation in the absence of information to the transmit**15.407(c) requirement:**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

Operation in the absence of information to the transmit

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare)

Appendix H): AC Power Line Conducted Emission

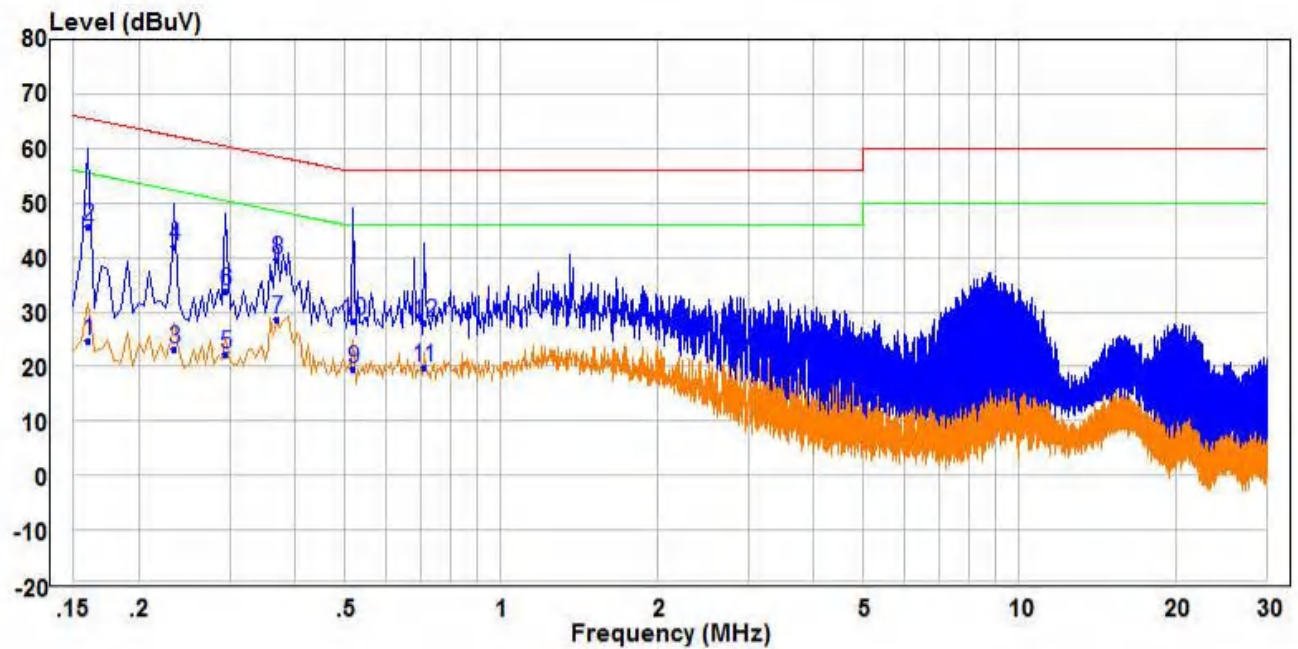
Test Procedure:	Test frequency range :150KHz-30MHz 1)The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all 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.														
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> * The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency	Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

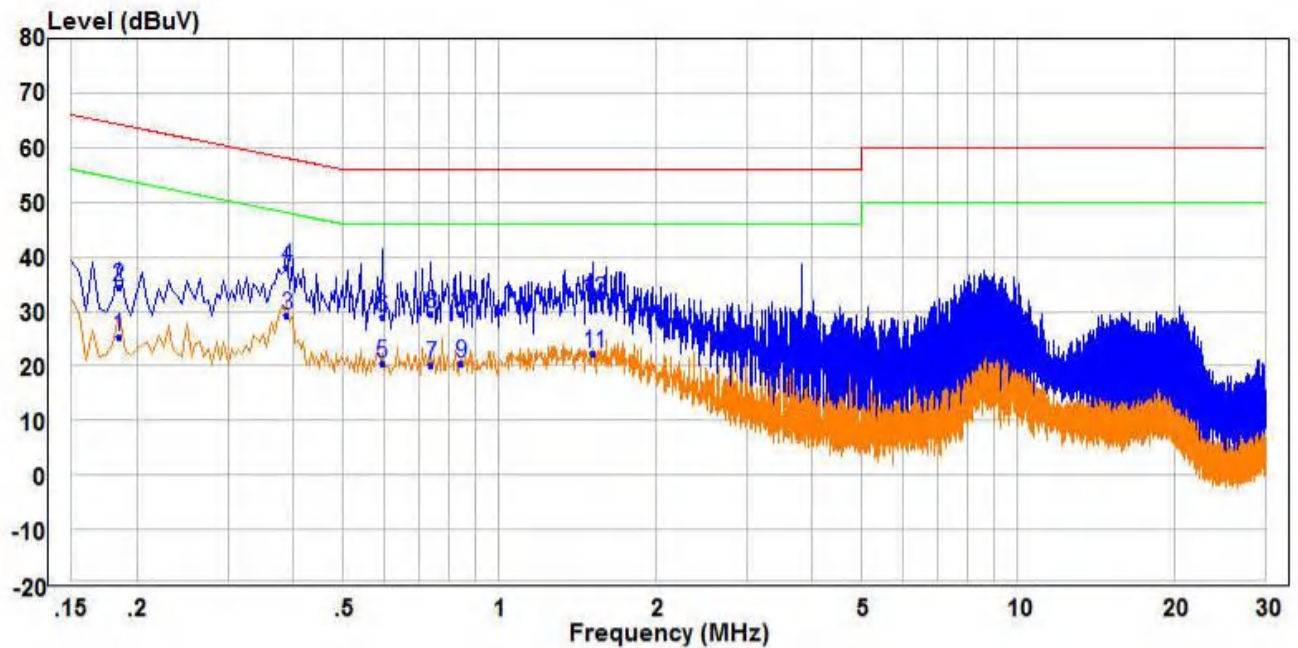
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



		Read		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase
1	0.160	14.92	9.68	24.60	55.46	-30.86	Average
2	0.160	35.85	9.68	45.53	65.46	-19.93	QP
3	0.235	13.71	9.56	23.27	52.27	-29.00	Average
4	0.235	32.50	9.56	42.06	62.27	-20.21	QP
5	0.295	12.76	9.50	22.26	50.38	-28.12	Average
6	0.295	24.26	9.50	33.76	60.38	-26.62	QP
7 AV	0.370	19.04	9.58	28.62	48.50	-19.88	Average
8 PP	0.370	29.92	9.58	39.50	58.50	-19.00	QP
9	0.520	9.94	9.72	19.66	46.00	-26.34	Average
10	0.520	18.71	9.72	28.43	56.00	-27.57	QP
11	0.710	10.00	9.89	19.89	46.00	-26.11	Average
12	0.710	18.17	9.89	28.06	56.00	-27.94	QP

Neutral line:



	Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.185	15.56	9.63	25.19	54.26	-29.07	Average	Neutral
2	0.185	24.87	9.63	34.50	64.26	-29.76	QP	Neutral
3 PP	0.390	19.70	9.59	29.29	48.06	-18.77	Average	Neutral
4 QP	0.390	28.47	9.59	38.06	58.06	-20.00	QP	Neutral
5	0.595	10.79	9.80	20.59	46.00	-25.41	Average	Neutral
6	0.595	19.29	9.80	29.09	56.00	-26.91	QP	Neutral
7	0.740	10.36	9.87	20.23	46.00	-25.77	Average	Neutral
8	0.740	19.66	9.87	29.53	56.00	-26.47	QP	Neutral
9	0.845	10.55	9.80	20.35	46.00	-25.65	Average	Neutral
10	0.845	19.80	9.80	29.60	56.00	-26.40	QP	Neutral
11	1.520	12.65	9.73	22.38	46.00	-23.62	Average	Neutral
12	1.520	22.35	9.73	32.08	56.00	-23.92	QP	Neutral

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. The 6Mbps of rate of 802.11A_5240 is the worst case, only the worst data recorded in the report.

Appendix I): Restricted bands around fundamental frequency (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
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 and the rotatable 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. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel 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 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre). - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.				
Limit:	Frequency	Limit (dBμV/m @3cm)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
		74.0		Peak Value	

Test plot as follows:

Worse case mode:		802.11a		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.90	-3.63	55.27	74	-18.73	peak	H	1.5	173
5150.00	44.03	-3.63	40.40	54	-13.60	AVG	H	1.5	182
5150.00	59.73	-3.63	56.10	74	-17.90	peak	H	1.5	101
5150.00	46.49	-3.63	42.86	54	-11.14	AVG	H	1.5	103

Worse case mode:		802.11a		Test channel:		64			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.98	-3.59	55.39	74	-18.61	peak	V	1.5	238
5350.00	44.12	-3.59	40.53	54	-13.47	AVG	V	1.5	312
5350.00	60.07	-3.59	56.48	74	-17.52	peak	V	1.5	210
5350.00	46.11	-3.59	42.52	54	-11.48	AVG	V	1.5	319

Worse case mode:		802.11a		Test channel:		100			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	57.80	-3.44	54.36	74	-19.64	peak	H	1.5	8
5470.00	43.71	-3.44	40.27	54	-13.73	AVG	H	1.5	135
5470.00	58.10	-3.44	54.66	74	-19.34	peak	V	1.5	351
5470.00	45.65	-3.44	42.21	54	-11.79	AVG	V	1.5	172

Worse case mode:		802.11a		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	58.53	-3.42	55.11	74	-18.89	peak	H	1.5	148
5850.00	44.63	-3.42	41.21	54	-12.79	AVG	H	1.5	9
5850.00	59.61	-3.42	56.19	74	-17.81	peak	H	1.5	189
5850.00	46.14	-3.42	42.72	54	-11.28	AVG	H	1.5	21

Worse case mode:		802.11n(HT20)		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.43	-3.63	54.80	74	-19.20	peak	H	1.5	191
5150.00	44.23	-3.63	40.60	54	-13.40	AVG	H	1.5	223
5150.00	60.15	-3.63	56.52	74	-17.48	peak	H	1.5	85
5150.00	46.14	-3.63	42.51	54	-11.49	AVG	H	1.5	210

Worse case mode:		802.11n(HT20)		Test channel:		64			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	59.18	-3.59	55.59	74	-18.41	peak	V	1.5	211
5350.00	44.49	-3.59	40.90	54	-13.10	AVG	V	1.5	50
5350.00	59.80	-3.59	56.21	74	-17.79	peak	V	1.5	68
5350.00	46.01	-3.59	42.42	54	-11.58	AVG	V	1.5	44

Worse case mode:		802.11n(HT20)		Test channel:		100			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	57.58	-3.44	54.14	74	-19.86	peak	H	1.5	118
5470.00	43.53	-3.44	40.09	54	-13.91	AVG	H	1.5	205
5470.00	57.66	-3.44	54.22	74	-19.78	peak	V	1.5	218
5470.00	45.82	-3.44	42.38	54	-11.62	AVG	V	1.5	7

Worse case mode:		802.11n(HT20)		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	58.90	-3.42	55.48	74	-18.52	peak	H	1.5	62
5850.00	44.60	-3.42	41.18	54	-12.82	AVG	H	1.5	216
5850.00	59.81	-3.42	56.39	74	-17.61	peak	H	1.5	202
5850.00	46.97	-3.42	43.55	54	-10.45	AVG	H	1.5	52

Worse case mode:		802.11n(HT40)		Test channel:		38			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.82	-3.63	55.19	74	-18.81	peak	H	1.5	210
5150.00	44.62	-3.63	40.99	54	-13.01	AVG	H	1.5	48
5150.00	59.50	-3.63	55.87	74	-18.13	peak	H	1.5	139
5150.00	46.00	-3.63	42.37	54	-11.63	AVG	H	1.5	94

Worse case mode:		802.11n(HT40)		Test channel:		62			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	59.11	-3.59	55.52	74	-18.48	peak	V	1.5	48
5350.00	44.89	-3.59	41.30	54	-12.70	AVG	V	1.5	327
5350.00	59.65	-3.59	56.06	74	-17.94	peak	V	1.5	118
5350.00	46.00	-3.59	42.41	54	-11.59	AVG	V	1.5	275

Worse case mode:		802.11n(HT40)		Test channel:		102			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	58.08	-3.44	54.64	74	-19.36	peak	H	1.5	82
5470.00	43.82	-3.44	40.38	54	-13.62	AVG	H	1.5	357
5470.00	58.27	-3.44	54.83	74	-19.17	peak	V	1.5	59
5470.00	46.19	-3.44	42.75	54	-11.25	AVG	V	1.5	221

Worse case mode:		802.11n(HT40)		Test channel:		159			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	58.48	-3.42	55.06	74	-18.94	peak	H	1.5	3
5850.00	44.39	-3.42	40.97	54	-13.03	AVG	H	1.5	85
5850.00	59.80	-3.42	56.38	74	-17.62	peak	H	1.5	309
5850.00	46.88	-3.42	43.46	54	-10.54	AVG	H	1.5	8

Worse case mode:		802.11ac(VHT20)		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.30	-3.63	54.67	74	-19.33	peak	H	1.5	51
5150.00	44.58	-3.63	40.95	54	-13.05	AVG	H	1.5	33
5150.00	59.26	-3.63	55.63	74	-18.37	peak	H	1.5	90
5150.00	46.10	-3.63	42.47	54	-11.53	AVG	H	1.5	115

Worse case mode:		802.11ac(VHT20)		Test channel:		64			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.73	-3.59	55.14	74	-18.86	peak	V	1.5	1
5350.00	44.65	-3.59	41.06	54	-12.94	AVG	V	1.5	78
5350.00	59.26	-3.59	55.67	74	-18.33	peak	V	1.5	67
5350.00	46.46	-3.59	42.87	54	-11.13	AVG	V	1.5	115

Worse case mode:		802.11ac(VHT20)		Test channel:		100			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	57.97	-3.44	54.53	74	-19.47	peak	H	1.5	160
5470.00	44.09	-3.44	40.65	54	-13.35	AVG	H	1.5	220
5470.00	57.73	-3.44	54.29	74	-19.71	peak	V	1.5	61
5470.00	45.96	-3.44	42.52	54	-11.48	AVG	V	1.5	315

Worse case mode:		802.11ac(VHT20)		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	58.47	-3.42	55.05	74	-18.95	peak	H	1.5	282
5850.00	44.56	-3.42	41.14	54	-12.86	AVG	H	1.5	142
5850.00	60.01	-3.42	56.59	74	-17.41	peak	H	1.5	245
5850.00	45.98	-3.42	42.56	54	-11.44	AVG	H	1.5	100

Worse case mode:		802.11ac(VHT40)		Test channel:		38			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.79	-3.63	55.16	74	-18.84	peak	H	1.5	265
5150.00	43.99	-3.63	40.36	54	-13.64	AVG	H	1.5	261
5150.00	59.97	-3.63	56.34	74	-17.66	peak	H	1.5	173
5150.00	46.62	-3.63	42.99	54	-11.01	AVG	H	1.5	283

Worse case mode:		802.11ac(VHT40)		Test channel:		62			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.79	-3.59	55.20	74	-18.80	peak	V	1.5	35
5350.00	44.82	-3.59	41.23	54	-12.77	AVG	V	1.5	115
5350.00	59.28	-3.59	55.69	74	-18.31	peak	V	1.5	113
5350.00	46.33	-3.59	42.74	54	-11.26	AVG	V	1.5	354

Worse case mode:		802.11ac(VHT40)		Test channel:		102			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	57.84	-3.44	54.40	74	-19.60	peak	H	1.5	170
5470.00	43.67	-3.44	40.23	54	-13.77	AVG	H	1.5	95
5470.00	58.00	-3.44	54.56	74	-19.44	peak	V	1.5	313
5470.00	46.26	-3.44	42.82	54	-11.18	AVG	V	1.5	199

Worse case mode:		802.11ac(VHT40)		Test channel:		159			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)			(m)	(Degree)
5850.00	58.68	-3.42	55.26	74	-18.74	peak	H	1.5	136
5850.00	44.63	-3.42	41.21	54	-12.79	AVG	H	1.5	96
5850.00	59.86	-3.42	56.44	74	-17.56	peak	H	1.5	14
5850.00	46.02	-3.42	42.60	54	-11.40	AVG	H	1.5	206

Worse case mode:		802.11ac(VHT80)		Test channel:		42			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.45	-3.63	54.82	74	-19.18	peak	H	1.5	297
5150.00	44.27	-3.63	40.64	54	-13.36	AVG	H	1.5	121
5150.00	60.12	-3.63	56.49	74	-17.51	peak	H	1.5	277
5150.00	46.91	-3.63	43.28	54	-10.72	AVG	H	1.5	342

Worse case mode:		802.11ac(VHT80)		Test channel:		58			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.83	-3.59	55.24	74	-18.76	peak	V	1.5	285
5350.00	44.95	-3.59	41.36	54	-12.64	AVG	V	1.5	330
5350.00	59.78	-3.59	56.19	74	-17.81	peak	V	1.5	85
5350.00	46.93	-3.59	43.34	54	-10.66	AVG	V	1.5	344

Worse case mode:		802.11ac(VHT80)		Test channel:		106			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	58.36	-3.44	54.92	74	-19.08	peak	H	1.5	27
5470.00	44.35	-3.44	40.91	54	-13.09	AVG	H	1.5	126
5470.00	57.85	-3.44	54.41	74	-19.59	peak	V	1.5	28
5470.00	45.79	-3.44	42.35	54	-11.65	AVG	V	1.5	141

Worse case mode:		802.11ac(VHT80)		Test channel:		155			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	58.40	-3.42	54.98	74	-19.02	peak	H	1.5	133
5850.00	44.49	-3.42	41.07	54	-12.93	AVG	H	1.5	306
5850.00	59.36	-3.42	55.94	74	-18.06	peak	H	1.5	222
5850.00	46.43	-3.42	43.01	54	-10.99	AVG	H	1.5	220

Note:

1) Through Pre-scan transmitting mode with all kind of modulation and data rate, Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

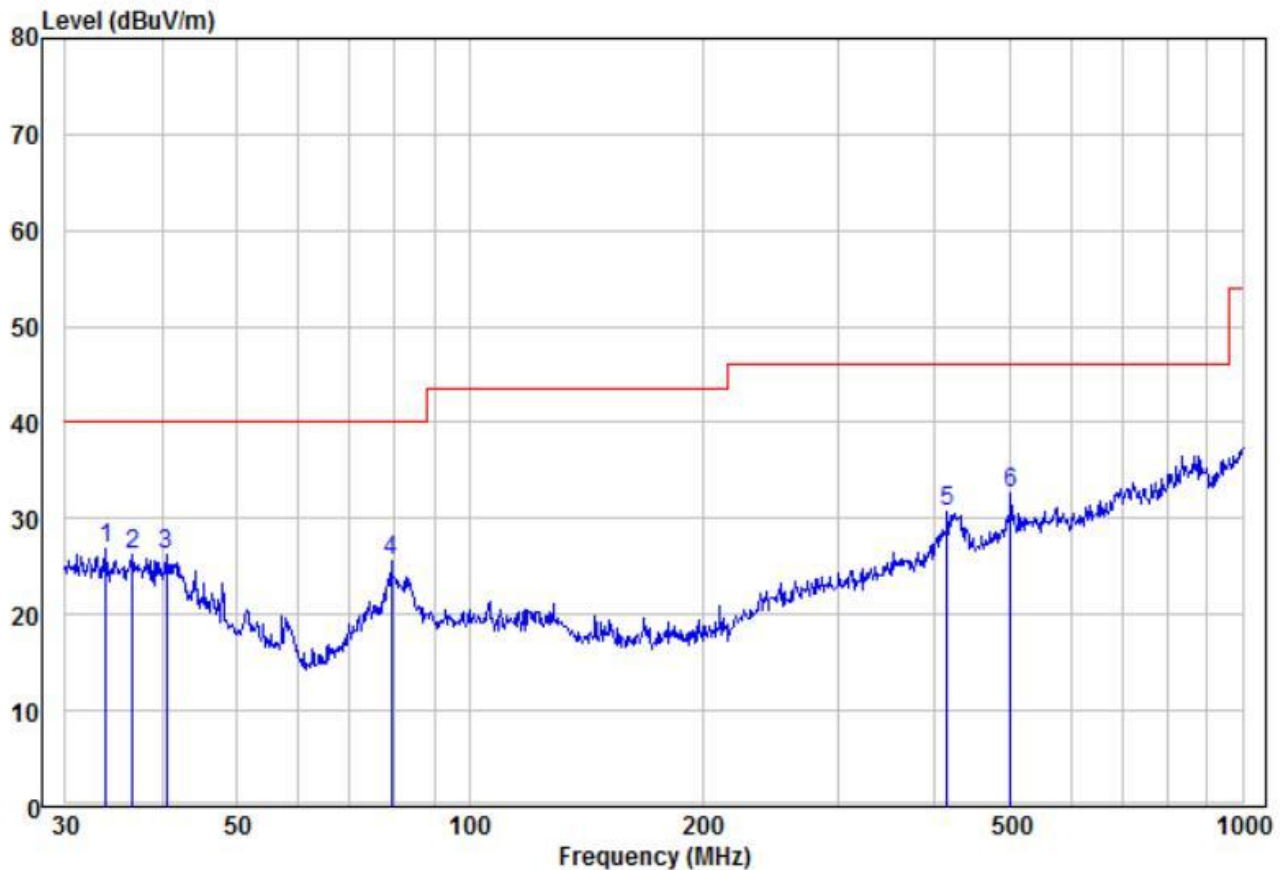
Appendix J): Radiated Spurious Emissions

Receiver Setup:	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	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:					
Below 1GHz test procedure as below: a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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 was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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: g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre) h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBµV/cm)	Remark	Measurement distance (cm)
	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.				
Test result: PASS					

Test Data:

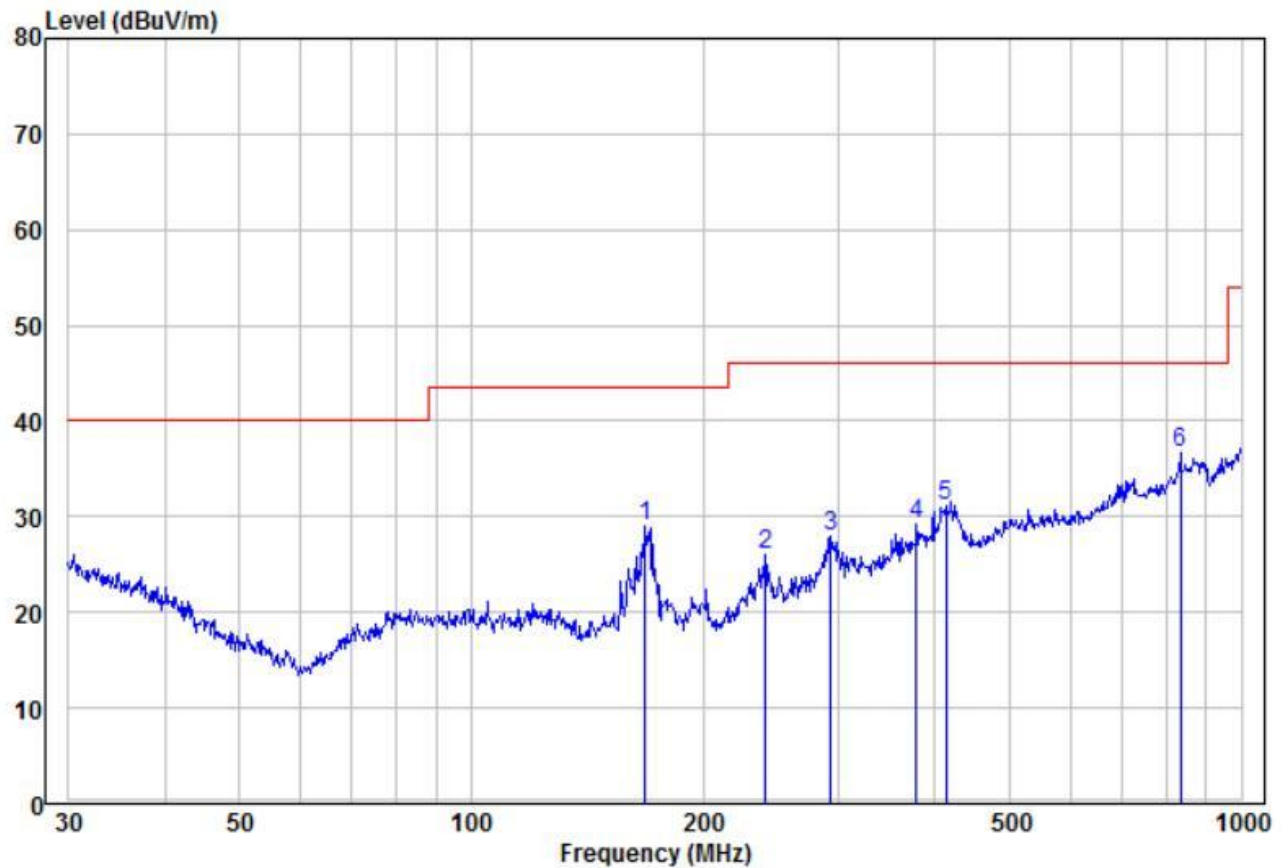
Radiated Emission below 1GHz

30MHz~1GHz		
Test mode:	Transmitting (802.11a 36CH)	Vertical



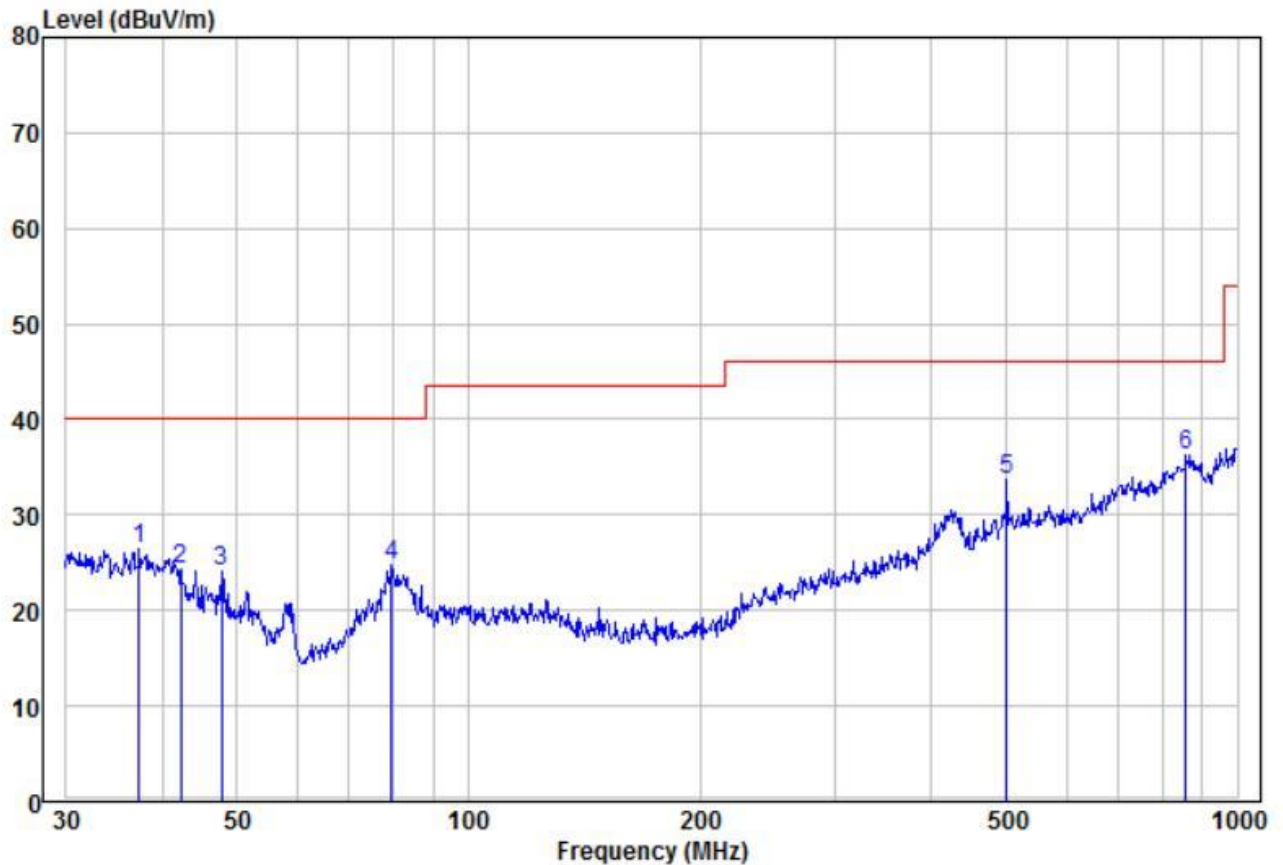
		Read		Limit	Over			APos	TPos
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm deg
1 pp	33.80	12.01	14.81	26.82	40.00	-13.18	Peak	VERTICAL	100 116
2	36.64	12.31	13.98	26.29	40.00	-13.71	Peak	VERTICAL	100 20
3	40.56	13.62	12.59	26.21	40.00	-13.79	Peak	VERTICAL	100 46
4	79.24	15.60	9.92	25.52	40.00	-14.48	Peak	VERTICAL	100 263
5	414.72	14.00	16.69	30.69	46.00	-15.31	Peak	VERTICAL	100 42
6	501.18	12.52	20.03	32.55	46.00	-13.45	Peak	VERTICAL	100 36

Test mode:	Transmitting (802.11a 36CH)	Horizontal
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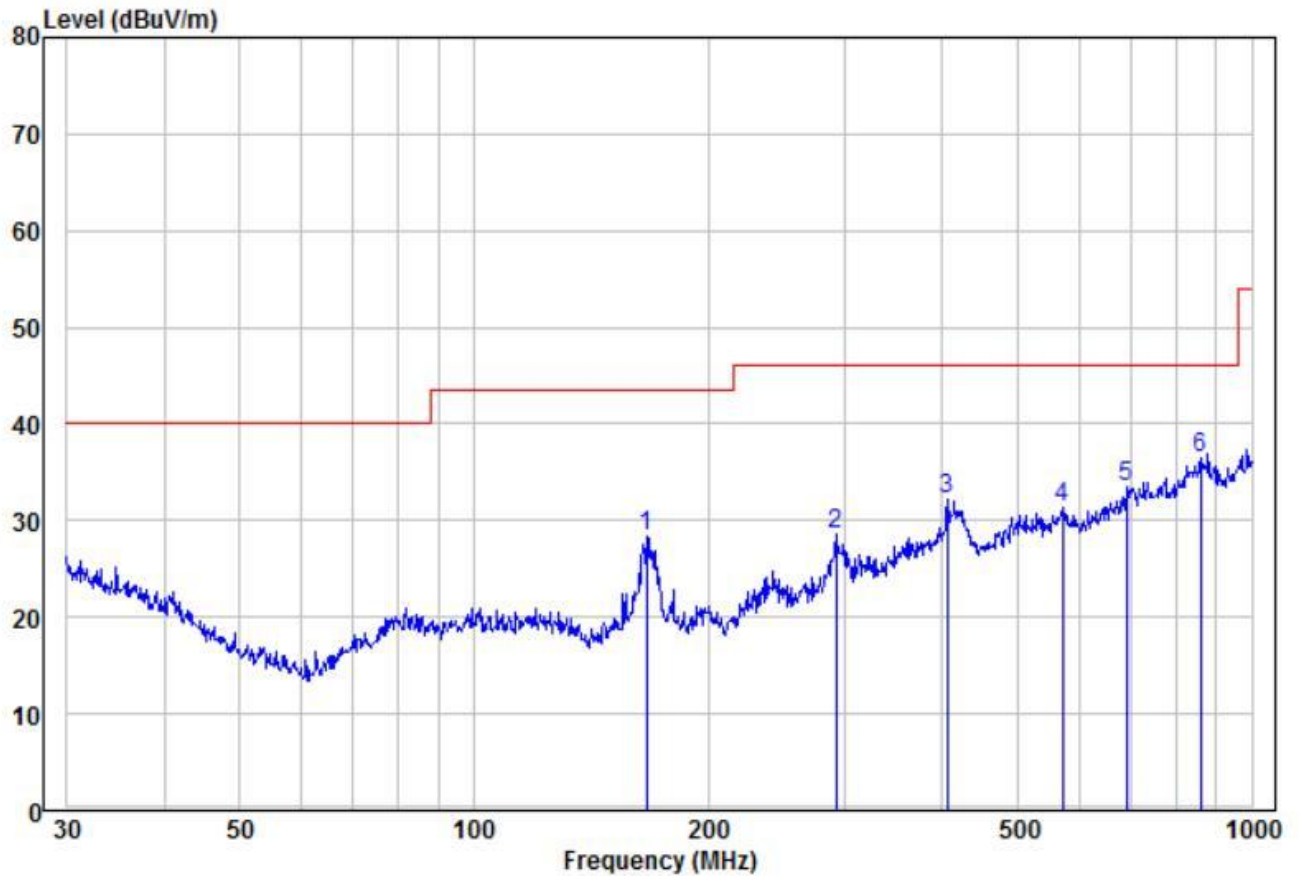
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	168.41	20.80	8.32	29.12	43.50	-14.38	Peak	HORIZONTAL	100	310
2	240.83	13.56	12.40	25.96	46.00	-20.04	Peak	HORIZONTAL	100	50
3	293.08	13.70	14.34	28.04	46.00	-17.96	Peak	HORIZONTAL	100	32
4	378.58	13.48	15.64	29.12	46.00	-16.88	Peak	HORIZONTAL	100	79
5	413.27	14.41	16.63	31.04	46.00	-14.96	Peak	HORIZONTAL	100	69
6 pp	833.32	10.93	25.80	36.73	46.00	-9.27	Peak	HORIZONTAL	100	38

30MHz~1GHz		
Test mode:	Transmitting (802.11a 52CH)	Vertical



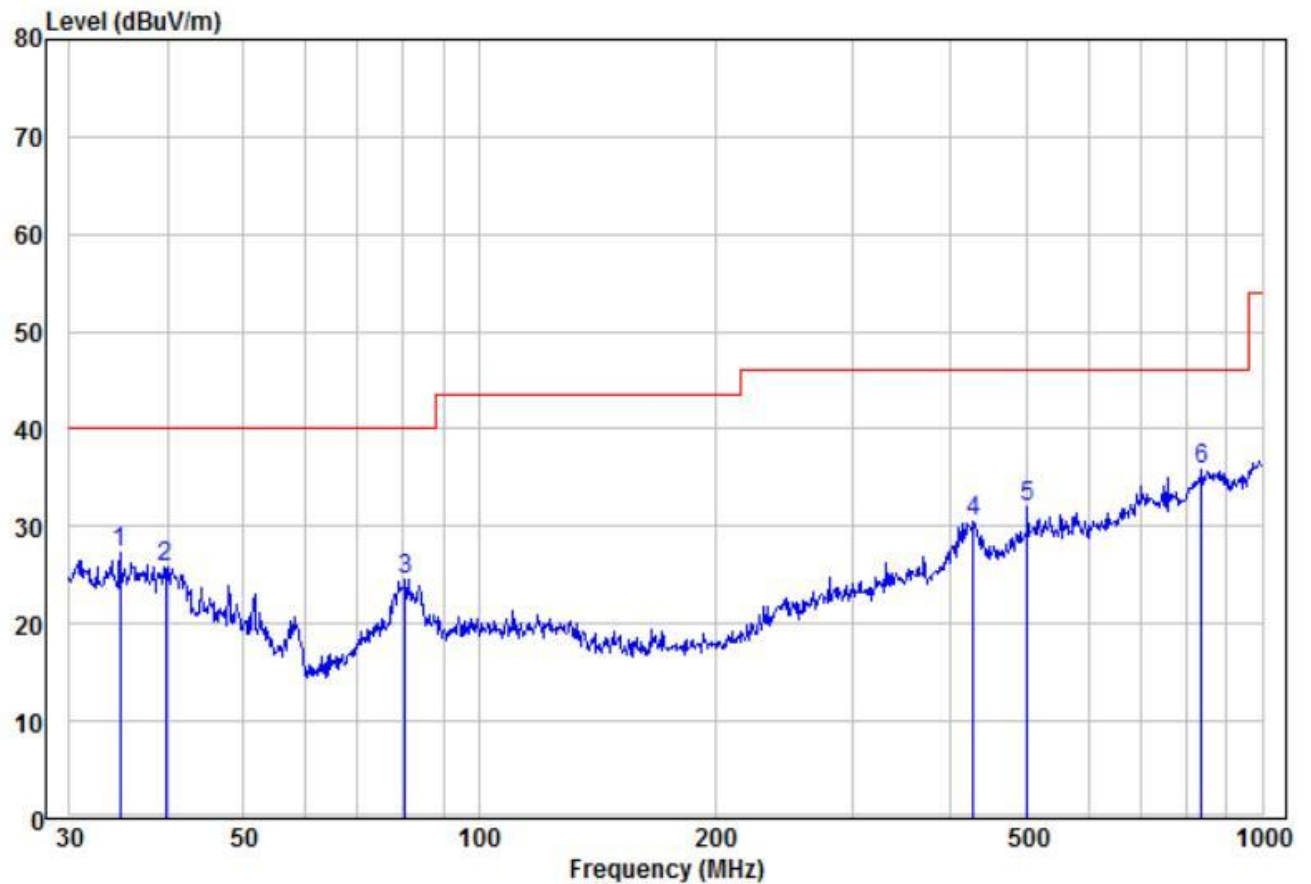
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	37.29	12.71	13.76	26.47	40.00	-13.53	Peak	VERTICAL	100	251
2	42.30	12.45	11.77	24.22	40.00	-15.78	Peak	VERTICAL	100	263
3	47.83	14.86	9.19	24.05	40.00	-15.95	Peak	VERTICAL	100	228
4	79.52	14.82	9.96	24.78	40.00	-15.22	Peak	VERTICAL	100	70
5	501.18	13.71	20.03	33.74	46.00	-12.26	Peak	VERTICAL	100	59
6 pp	857.02	10.32	25.95	36.27	46.00	-9.73	Peak	VERTICAL	100	63

Test mode:	Transmitting (802.11a 52CH)	Horizontal
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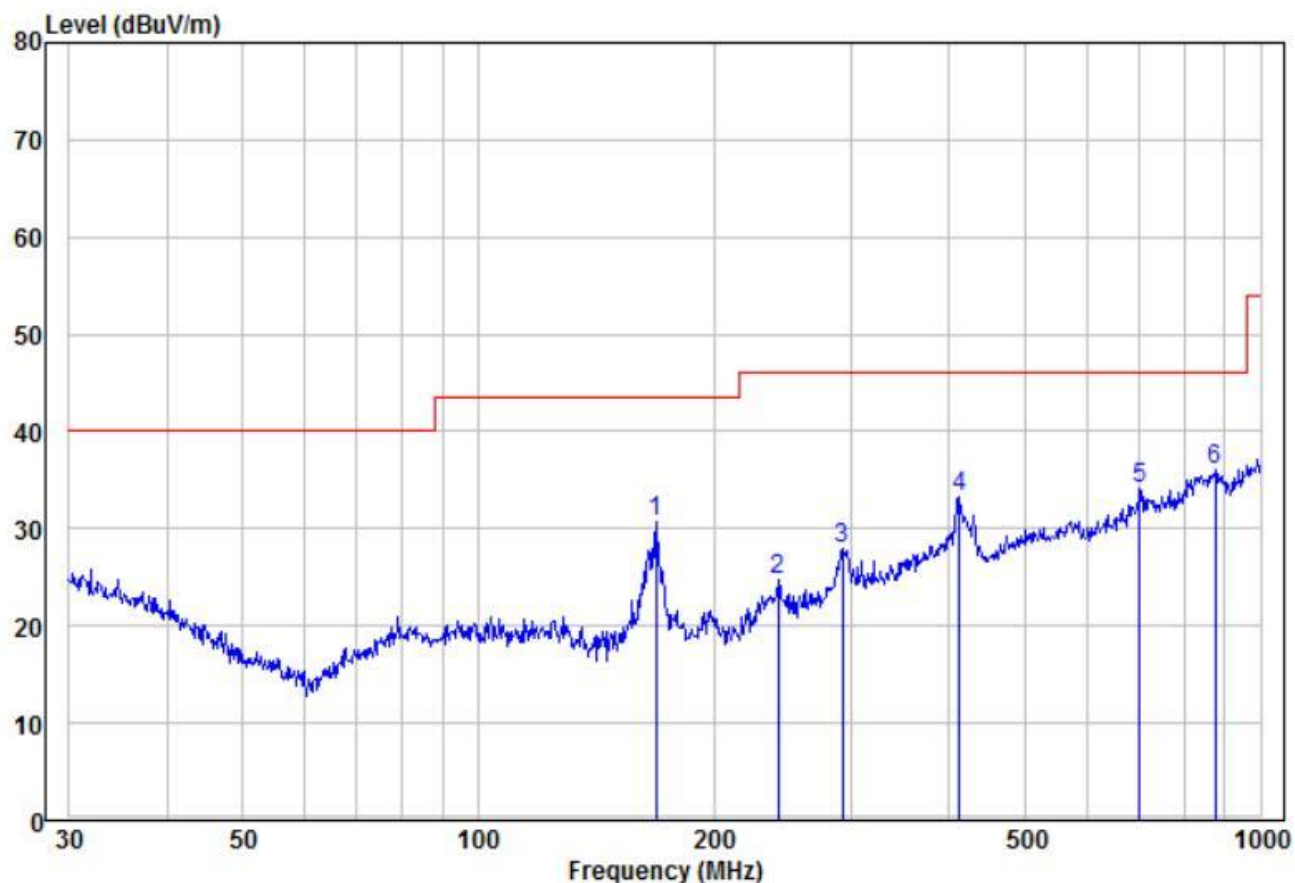
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	166.65	20.01	8.36	28.37	43.50	-15.13	Peak	HORIZONTAL	100	360
2	292.06	14.27	14.30	28.57	46.00	-17.43	Peak	HORIZONTAL	100	320
3	406.09	15.91	16.40	32.31	46.00	-13.69	Peak	HORIZONTAL	100	214
4	570.61	10.87	20.43	31.30	46.00	-14.70	Peak	HORIZONTAL	100	206
5	689.56	11.06	22.42	33.48	46.00	-12.52	Peak	HORIZONTAL	100	201
6 pp	860.04	10.52	25.95	36.47	46.00	-9.53	Peak	HORIZONTAL	100	66

30MHz~1GHz		
Test mode:	Transmitting (802.11a 100CH)	Vertical



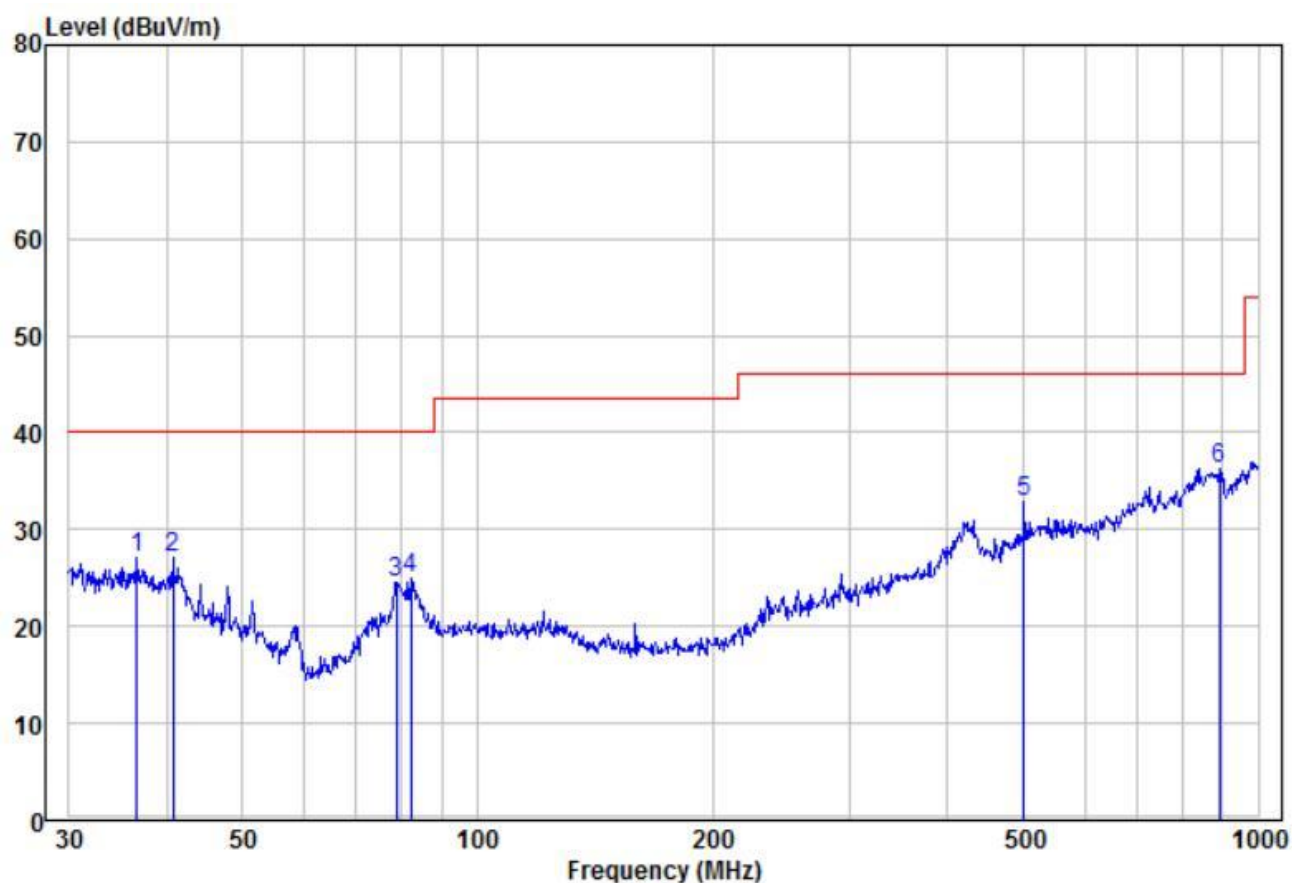
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	34.76	12.80	14.59	27.39	40.00	-12.61	Peak	VERTICAL	100	30
2	39.71	12.94	12.94	25.88	40.00	-14.12	Peak	VERTICAL	142	360
3	80.36	14.48	10.06	24.54	40.00	-15.46	Peak	VERTICAL	100	156
4	428.02	13.40	17.13	30.53	46.00	-15.47	Peak	VERTICAL	100	82
5	501.18	11.96	20.03	31.99	46.00	-14.01	Peak	VERTICAL	100	12
6 pp	836.24	9.78	25.96	35.74	46.00	-10.26	Peak	VERTICAL	100	11

Test mode:	Transmitting (802.11a 100CH)	Horizontal
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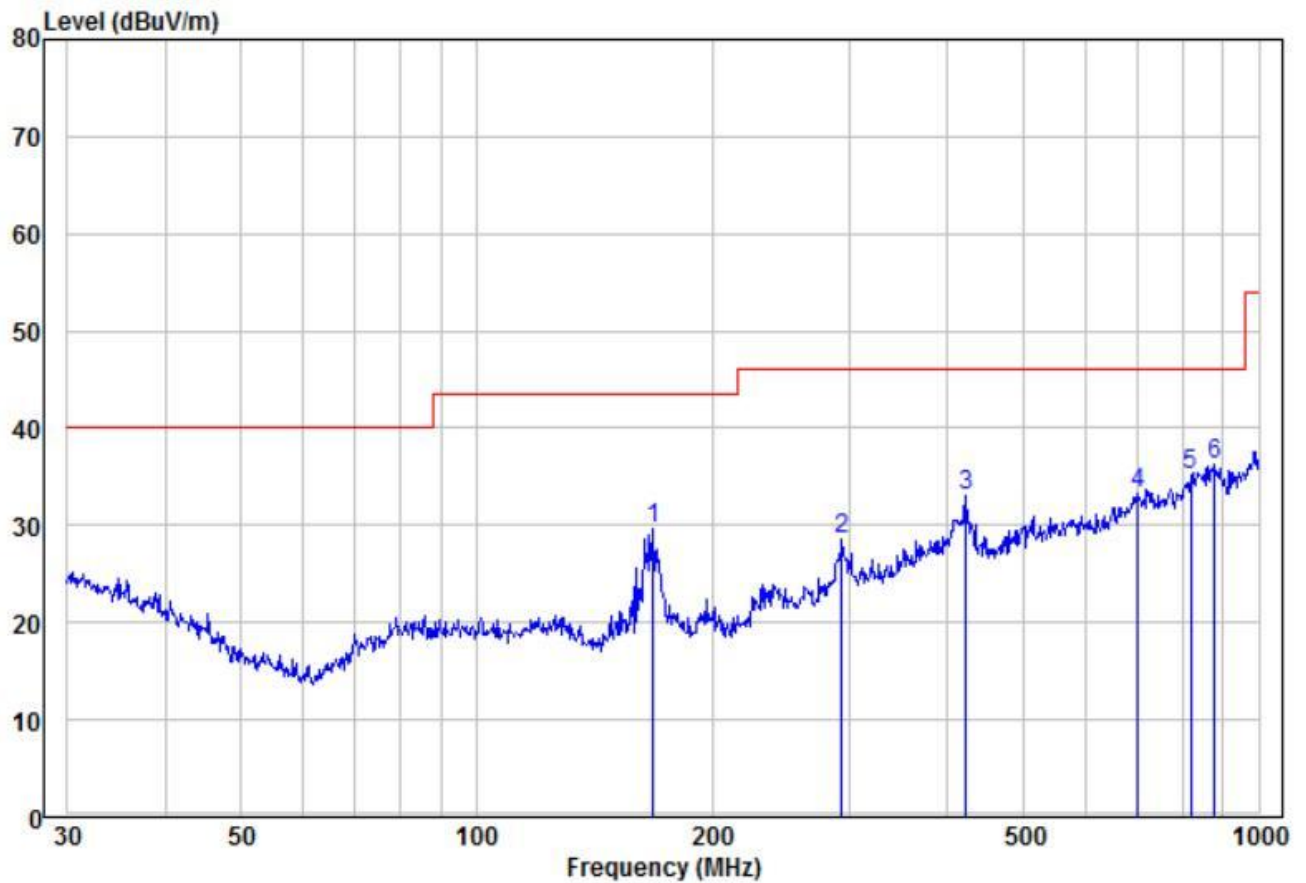
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	169.01	22.39	8.32	30.71	43.50	-12.79	Peak	HORIZONTAL	100	36
2	241.68	12.21	12.46	24.67	46.00	-21.33	Peak	HORIZONTAL	100	197
3	292.06	13.75	14.30	28.05	46.00	-17.95	Peak	HORIZONTAL	100	184
4	411.82	16.72	16.58	33.30	46.00	-12.70	Peak	HORIZONTAL	100	200
5	701.76	11.44	22.66	34.10	46.00	-11.90	Peak	HORIZONTAL	100	180
6 pp	875.25	10.16	25.93	36.09	46.00	-9.91	Peak	HORIZONTAL	100	34

30MHz~1GHz		
Test mode:	Transmitting (802.11a 149CH)	Vertical



	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	36.64	13.12	13.98	27.10	40.00	-12.90	Peak	VERTICAL	100	24
2	40.70	14.52	12.52	27.04	40.00	-12.96	Peak	VERTICAL	100	31
3	78.69	14.76	9.83	24.59	40.00	-15.41	Peak	VERTICAL	100	315
4	82.07	14.76	10.12	24.88	40.00	-15.12	Peak	VERTICAL	100	98
5	501.18	12.85	20.03	32.88	46.00	-13.12	Peak	VERTICAL	100	125
6 pp	890.73	10.31	25.92	36.23	46.00	-9.77	Peak	VERTICAL	100	65

Test mode:	Transmitting (802.11a 149CH)	Horizontal
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	Freq	Read Level	Factor	Level	Limit	Over	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	168.41	21.39	8.32	29.71	43.50	-13.79	Peak	HORIZONTAL	100	132
2	293.08	14.26	14.34	28.60	46.00	-17.40	Peak	HORIZONTAL	100	298
3	422.06	16.10	16.93	33.03	46.00	-12.97	Peak	HORIZONTAL	100	350
4	701.76	10.64	22.66	33.30	46.00	-12.70	Peak	HORIZONTAL	100	267
5	818.83	10.30	24.98	35.28	46.00	-10.72	Peak	HORIZONTAL	100	81
6 pp	878.32	10.39	25.93	36.32	46.00	-9.68	Peak	HORIZONTAL	100	4

Transmitter Emission above 1GHz

Test mode:	802.11a(6Mbps)			Test channel:		36 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10360	53.04	2.26	55.30	74	-18.70	peak	H	1.5	340
10360	37.06	2.26	39.32	54	-14.68	AVG	H	1.5	63
15540	50.56	3.75	54.31	74	-19.69	peak	H	1.5	192
15540	37.29	3.75	41.04	54	-12.96	AVG	H	1.5	60
10360	55.21	2.26	57.47	74	-16.53	peak	V	1.5	120
10360	39.17	2.26	41.43	54	-12.57	AVG	V	1.5	152
15540	52.21	3.75	55.96	74	-18.04	peak	V	1.5	129
15540	35.48	3.75	39.23	54	-14.77	AVG	V	1.5	64

Test mode:	802.11a(6Mbps)			Test channel:		48 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10480	52.40	2.31	54.71	74	-19.29	peak	H	1.5	143
10480	36.94	2.31	39.25	54	-14.75	AVG	H	1.5	206
15720	49.02	3.79	52.81	74	-21.19	peak	H	1.5	71
15720	36.55	3.79	40.34	54	-13.66	AVG	H	1.5	311
10480	53.12	2.31	55.43	74	-18.57	peak	V	1.5	127
10480	37.85	2.31	40.16	54	-13.84	AVG	V	1.5	350
15720	49.51	3.79	53.30	74	-20.70	peak	V	1.5	29
15720	35.33	3.79	39.12	54	-14.88	AVG	V	1.5	304

Test mode:	802.11a(6Mbps)			Test channel:		52 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10520	52.29	2.26	54.55	74	-19.45	peak	H	1.5	81
10520	37.96	2.26	40.22	54	-13.78	AVG	H	1.5	14
15780	52.14	3.75	55.89	74	-18.11	peak	H	1.5	97
15780	38.90	3.75	42.65	54	-11.35	AVG	H	1.5	332
10520	55.53	2.26	57.79	74	-16.21	peak	V	1.5	178
10520	38.35	2.26	40.61	54	-13.39	AVG	V	1.5	264
15780	50.81	3.75	54.56	74	-19.44	peak	V	1.5	40
15780	35.07	3.75	38.82	54	-15.18	AVG	V	1.5	282

Test mode:	802.11a(6Mbps)			Test channel:		64 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10640	51.34	2.31	53.65	74	-20.35	peak	H	1.5	176
10640	37.20	2.31	39.51	54	-14.49	AVG	H	1.5	316
15960	48.26	3.79	52.05	74	-21.95	peak	H	1.5	251
15960	36.02	3.79	39.81	54	-14.19	AVG	H	1.5	184
10640	52.87	2.31	55.18	74	-18.82	peak	V	1.5	82
10640	37.45	2.31	39.76	54	-14.24	AVG	V	1.5	272
15960	49.68	3.79	53.47	74	-20.53	peak	V	1.5	46
15960	35.92	3.79	39.71	54	-14.29	AVG	V	1.5	142

Test mode:	802.11a(6Mbps)			Test channel:		100			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11000	51.77	2.54	54.31	74	-19.69	peak	H	1.5	104
11000	38.06	2.54	40.60	54	-13.40	AVG	H	1.5	285
16500	50.87	3.94	54.81	74	-19.19	peak	H	1.5	157
16500	37.80	3.94	41.74	54	-12.26	AVG	H	1.5	54
11000	54.07	2.54	56.61	74	-17.39	peak	V	1.5	301
11000	37.39	2.54	39.93	54	-14.07	AVG	V	1.5	180
16500	50.79	3.94	54.73	74	-19.27	peak	V	1.5	253
16500	36.36	3.94	40.30	54	-13.70	AVG	V	1.5	129

Test mode:	802.11a(6Mbps)			Test channel:		140			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11400	51.90	2.58	54.48	74	-19.52	peak	H	1.5	319
11400	37.60	2.58	40.18	54	-13.82	AVG	H	1.5	73
17100	49.65	4.02	53.67	74	-20.33	peak	H	1.5	44
17100	36.15	4.02	40.17	54	-13.83	AVG	H	1.5	168
11400	54.61	2.58	57.19	74	-16.81	peak	V	1.5	269
11400	37.38	2.58	39.96	54	-14.04	AVG	V	1.5	60
17100	51.09	4.02	55.11	74	-18.89	peak	V	1.5	253
17100	36.46	4.02	40.48	54	-13.52	AVG	V	1.5	47

Test mode:	802.11a(6Mbps)			Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11490	53.03	2.54	55.57	74	-18.43	peak	H	1.5	88
11490	38.55	2.54	41.09	54	-12.91	AVG	H	1.5	352
17235	50.43	3.94	54.37	74	-19.63	peak	H	1.5	254
17235	37.93	3.94	41.87	54	-12.13	AVG	H	1.5	137
11490	54.50	2.54	57.04	74	-16.96	peak	V	1.5	167
11490	37.77	2.54	40.31	54	-13.69	AVG	V	1.5	318
17235	49.98	3.94	53.92	74	-20.08	peak	V	1.5	160
17235	36.15	3.94	40.09	54	-13.91	AVG	V	1.5	263

Test mode:	802.11a(6Mbps)			Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11650	52.63	2.58	55.21	74	-18.79	peak	H	1.5	358
11650	37.09	2.58	39.67	54	-14.33	AVG	H	1.5	225
17475	49.69	4.02	53.71	74	-20.29	peak	H	1.5	125
17475	36.38	4.02	40.40	54	-13.60	AVG	H	1.5	217
11650	53.42	2.58	56.00	74	-18.00	peak	V	1.5	11
11650	38.68	2.58	41.26	54	-12.74	AVG	V	1.5	277
17475	49.95	4.02	53.97	74	-20.03	peak	V	1.5	262
17475	37.96	4.02	41.98	54	-12.02	AVG	V	1.5	38

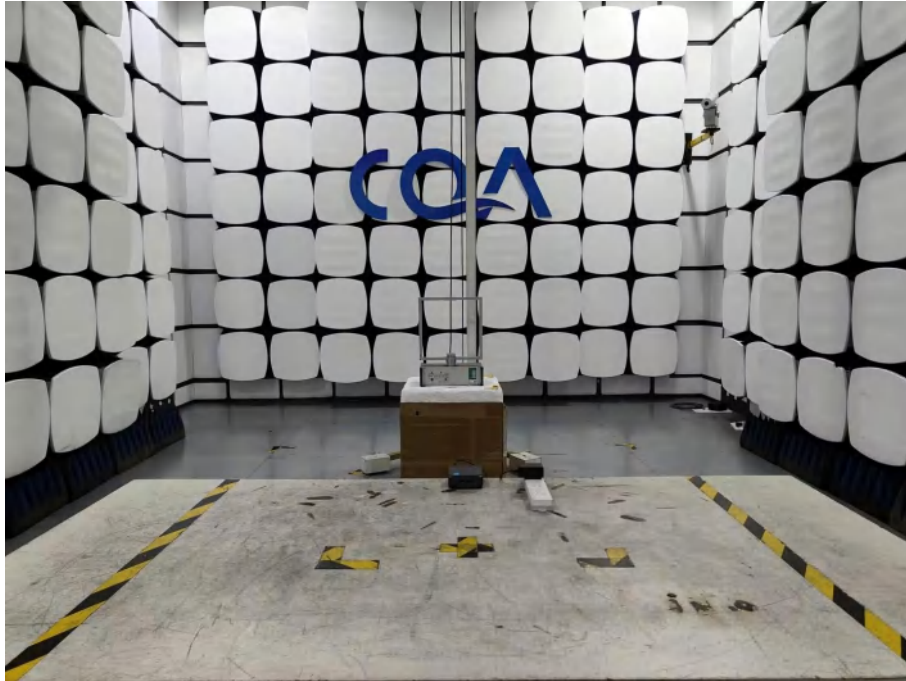
Remark:

- 1) The 802.11a 6Mbps of rate is the worst case, only the worst data recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 40GHz, The disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

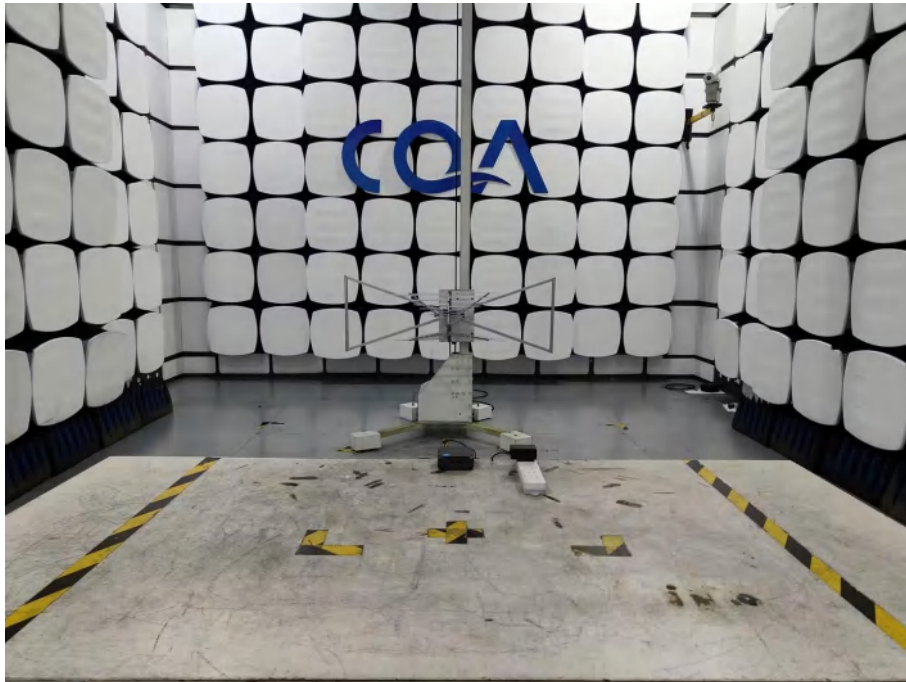
8 Photographs - EUT Test Setup

8.1 Radiated Spurious Emission

9kHz~30MHz:



30MHz~1GHz:



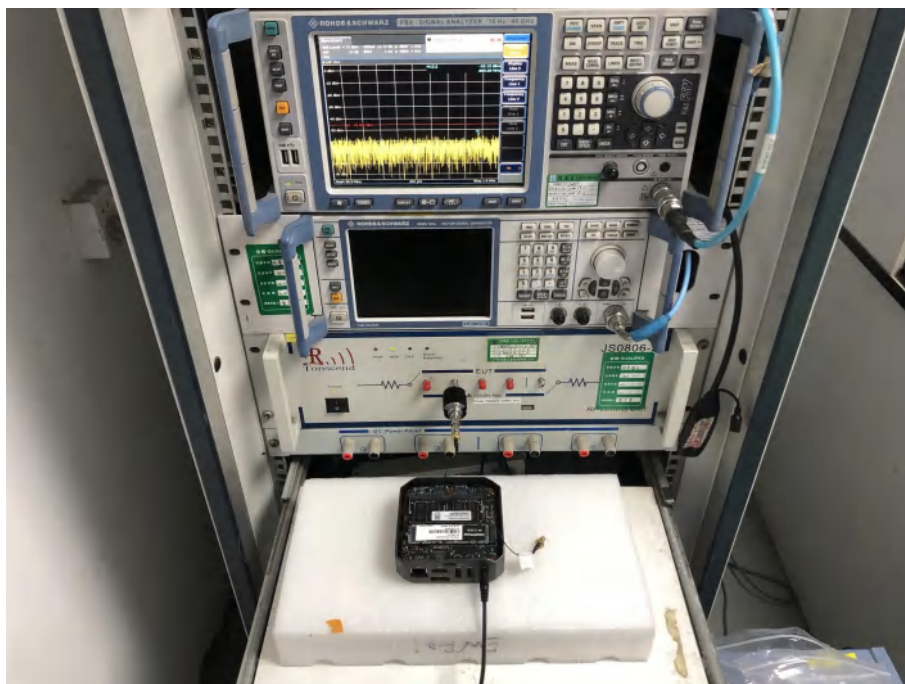
Above 1GHz:



8.2 Conducted Emission



8.3 RF Conducted measurement



9 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20250100185E-01.

*** END OF REPORT ***