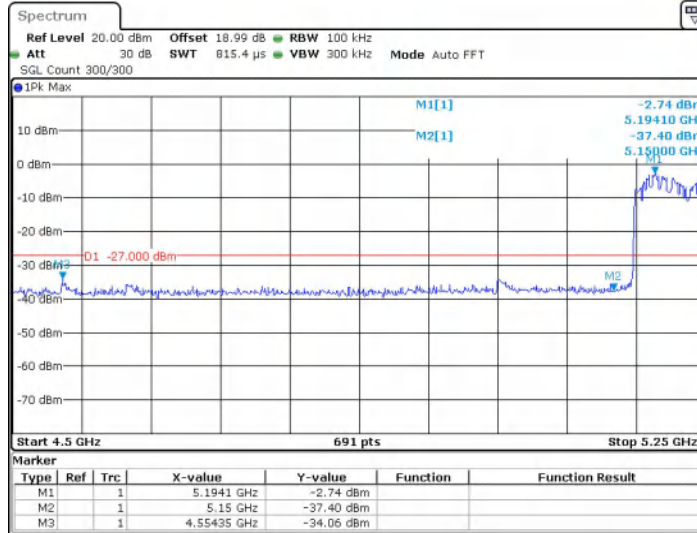
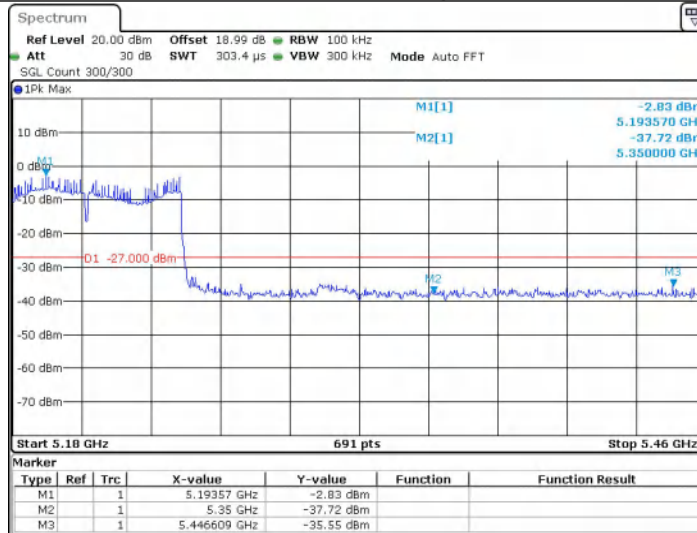


11AC80MIMO_Ant1_Low_5210



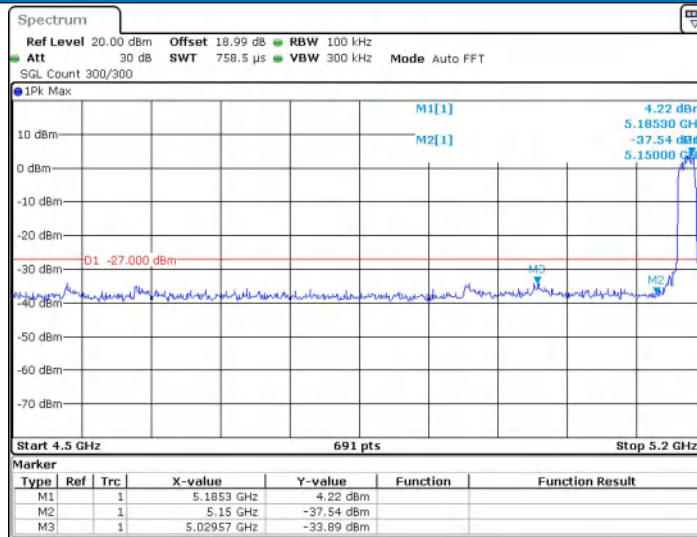
Date: 9 SEP.2025 11:36:19

11AC80MIMO_Ant1_High_5210



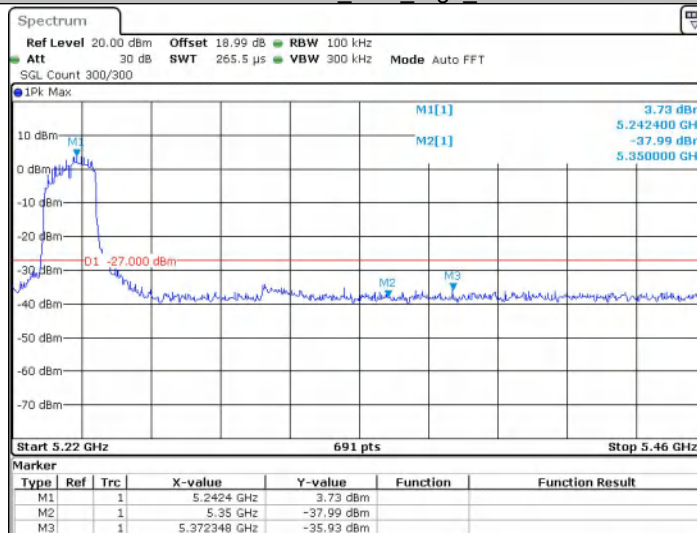
Date: 9 SEP.2025 11:36:31

11AX20MIMO_Ant1_Low_5180



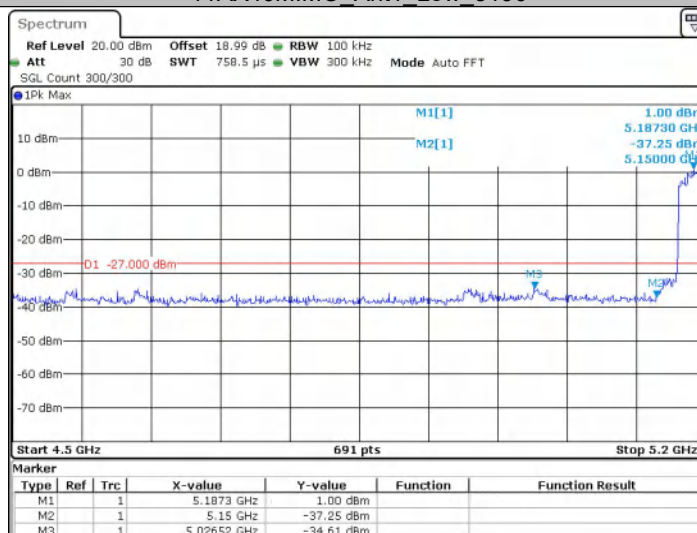
Date: 9 SEP 2025 11:45:08

11AX20MIMO_Ant1_High_5240



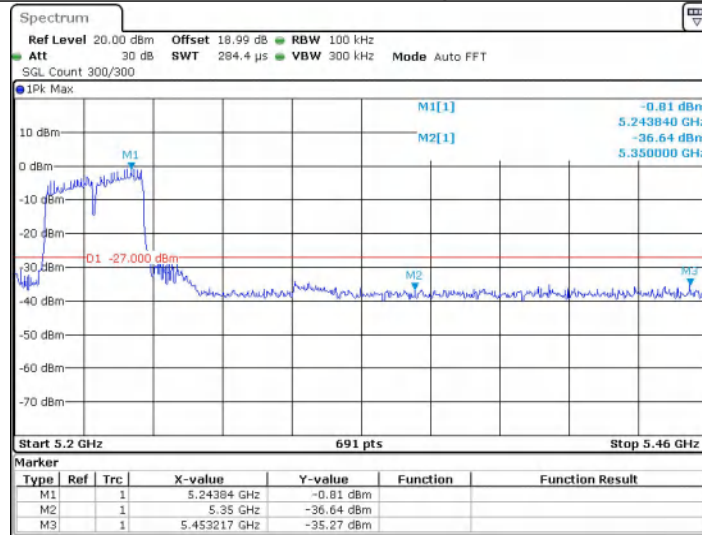
Date: 9 SEP 2025 11:49:17

11AX40MIMO_Ant1_Low_5190



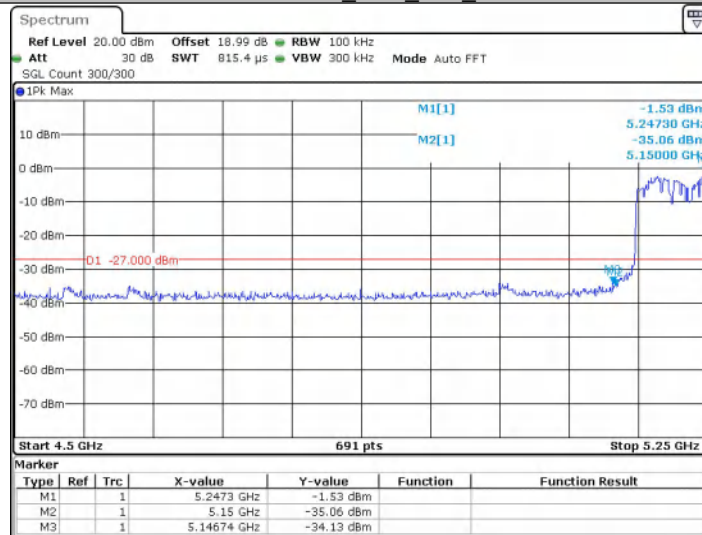
Date: 9 SEP 2025 11:59:39

11AX40MIMO_Ant1_High_5230



Date: 9 SEP.2025 12:01:52

11AX80MIMO_Ant1_Low_5210



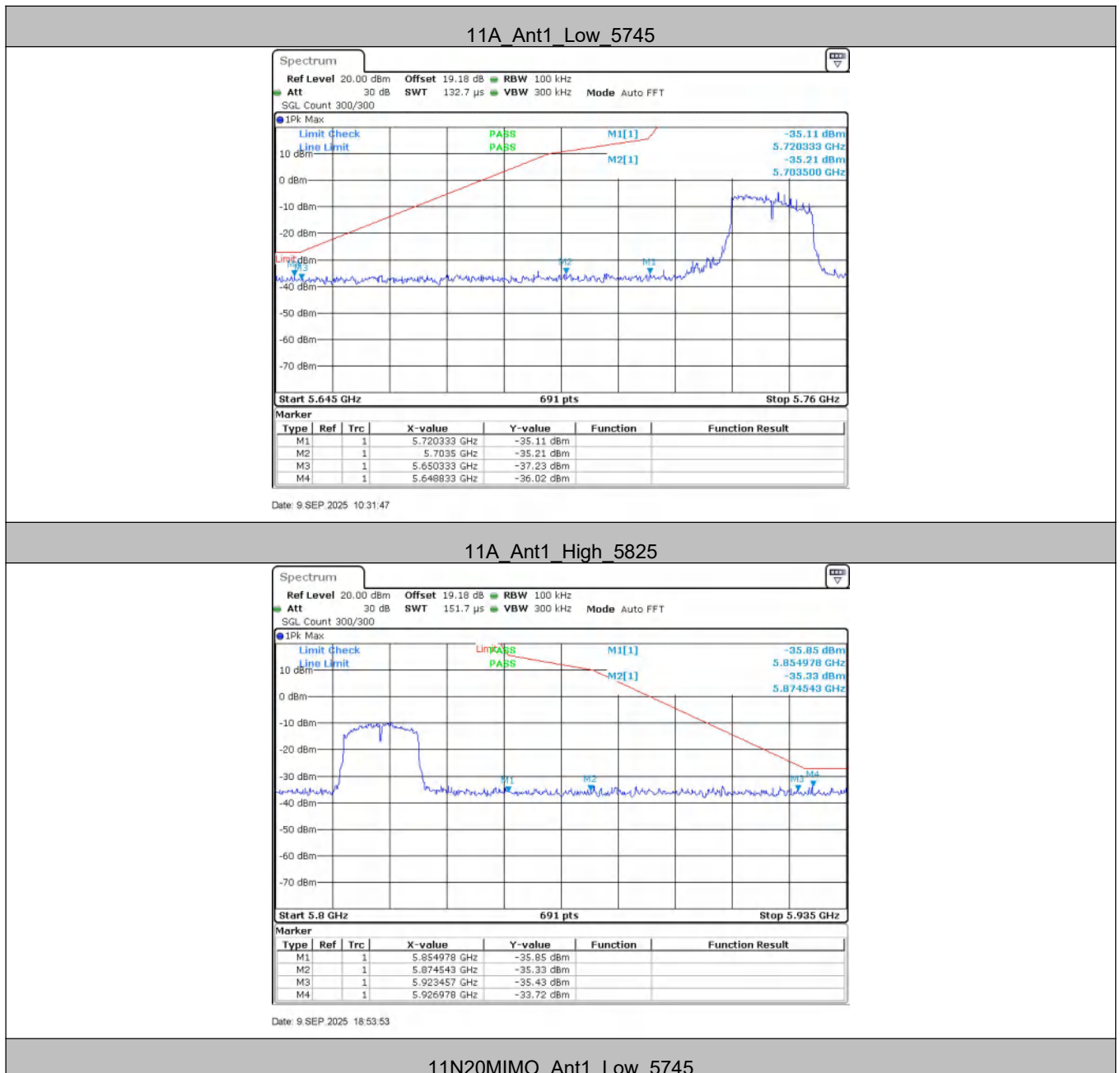
Date: 9 SEP.2025 12:07:29

11AX80MIMO_Ant1_High_5210



Date: 9 SEP 2025 12:07:42

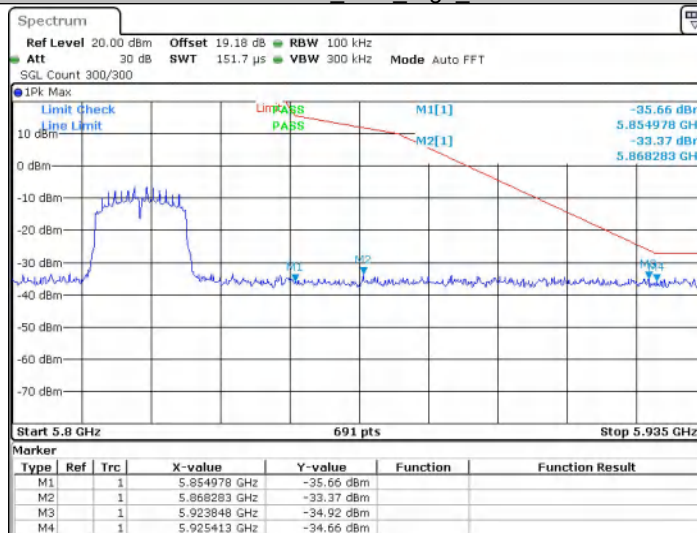
7.1.6 Test Graphs B4





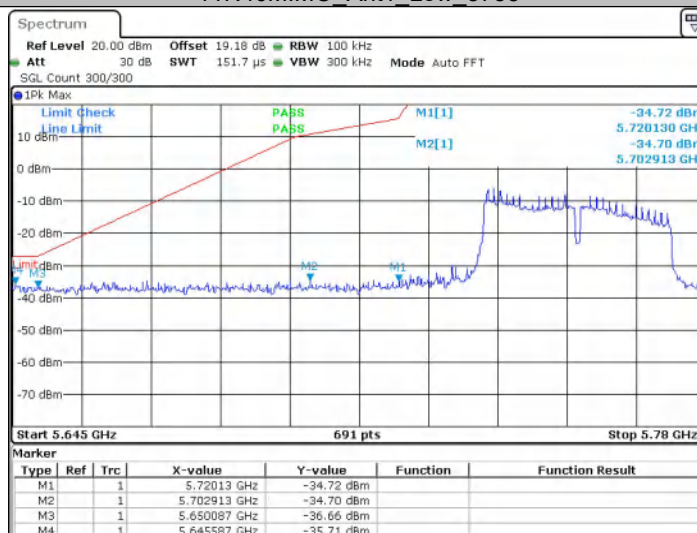
Date: 9 SEP 2025 10:45:23

11N20MIMO_Ant1_High_5825



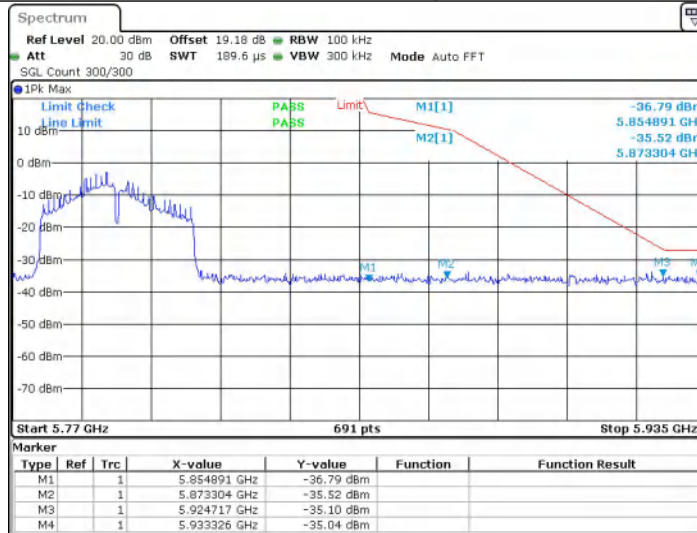
Date: 10 SEP 2025 15:06:31

11N40MIMO_Ant1_Low_5755



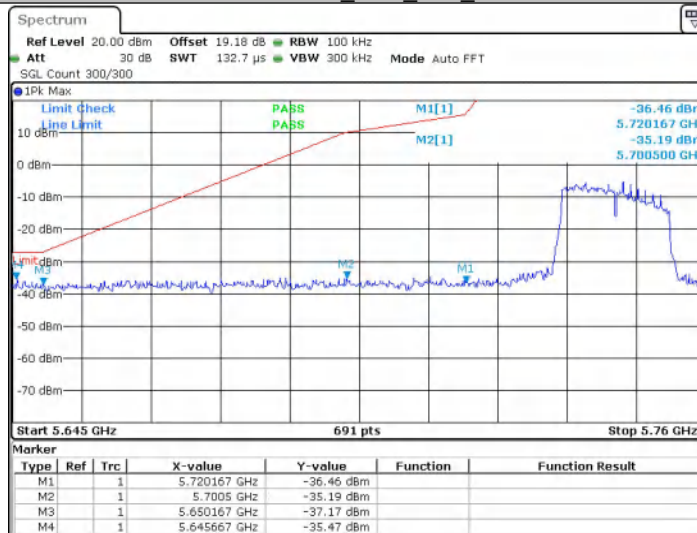
Date: 10 SEP 2025 15:34:01

11N40MIMO_Ant1_High_5795



Date: 9 SEP.2025 11:12:19

11AC20MIMO_Ant1_Low_5745



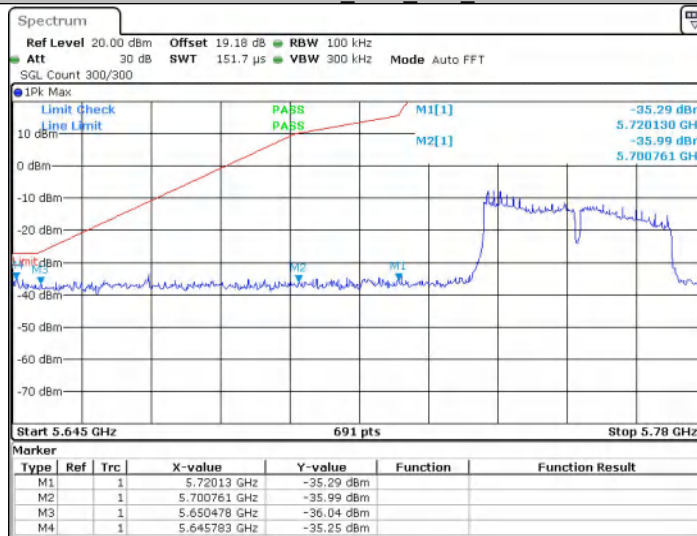
Date: 9 SEP.2025 11:20:38

11AC20MIMO_Ant1_High_5825



Date: 10 SEP 2025 15:37:49

11AC40MIMO_Ant1_Low_5755



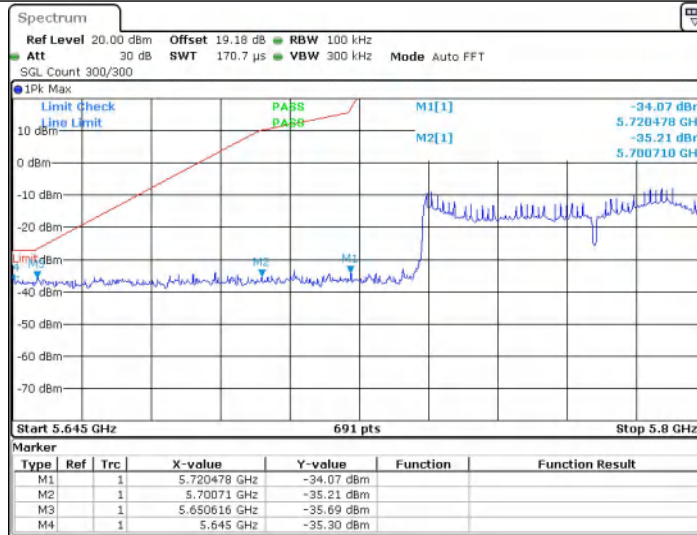
Date: 10 SEP 2025 15:39:48

11AC40MIMO_Ant1_High_5795



Date: 9 SEP 2025 11:34:00

11AC80MIMO_Ant1_Low_5775



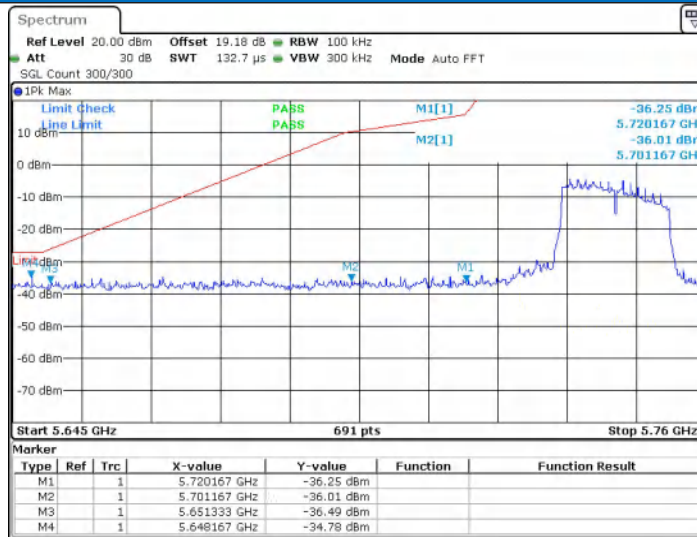
Date: 10 SEP. 2025 15:25:49

11AC80MIMO_Ant1_High_5775



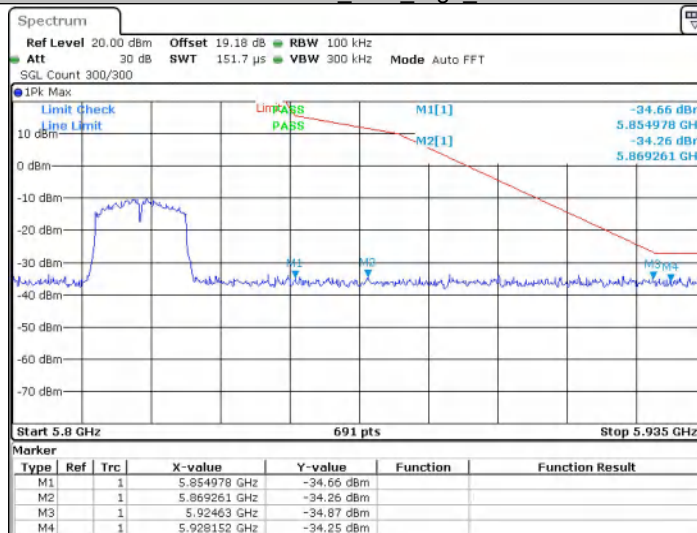
Date: 10 SEP. 2025 15:26:02

11AX20MIMO_Ant1_Low_5745



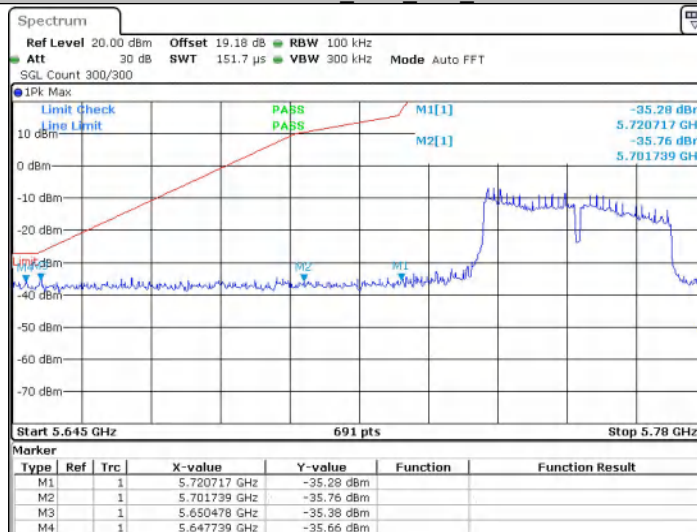
Date: 9 SEP 2025 11:52:02

11AX20MIMO_Ant1_High_5825



Date: 10 SEP 2025 15:46:22

11AX40MIMO_Ant1_Low_5755



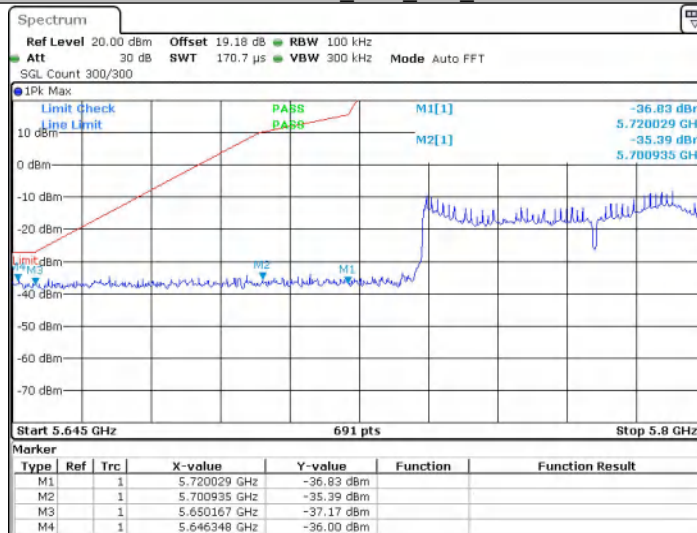
Date: 9 SEP 2025 12:03:37

11AX40MIMO_Ant1_High_5795



Date: 9 SEP.2025 12:05:19

11AX80MIMO_Ant1_Low_5775



Date: 10 SEP.2025 15:43:12

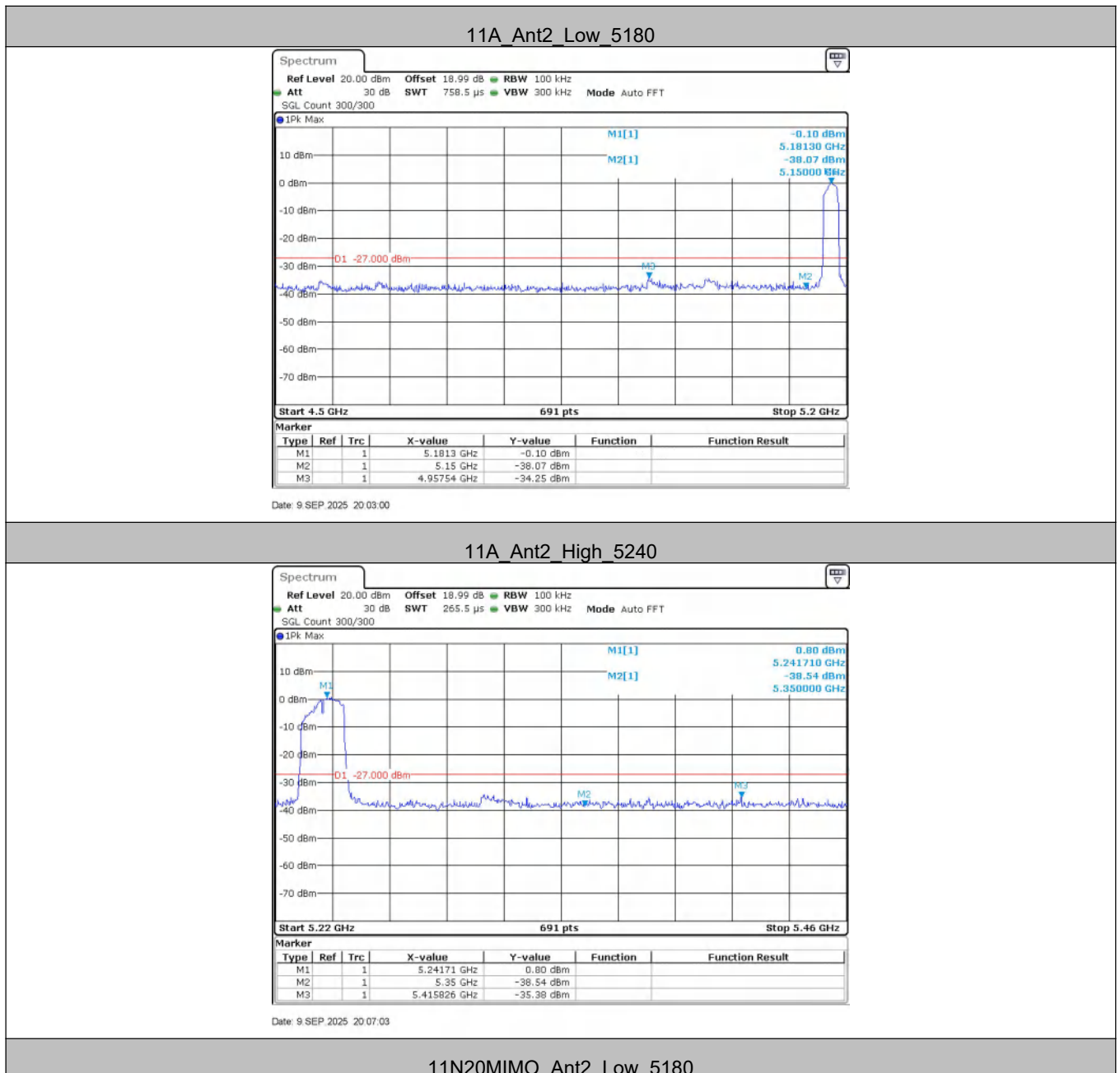
11AX80MIMO_Ant1_High_5775

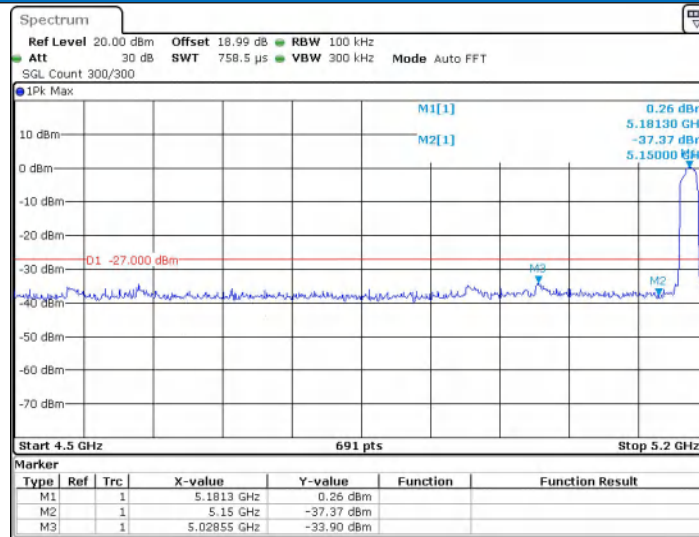


Date: 10 SEP 2025 15:43:26

Ant 2:

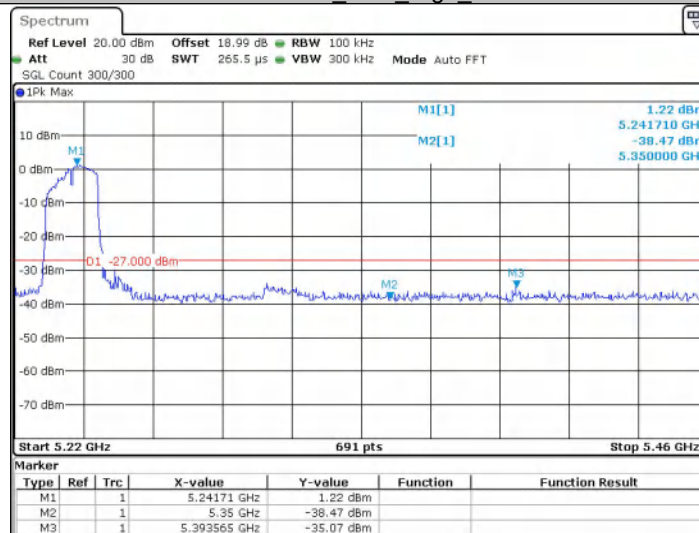
7.1.7 Test Graphs B1





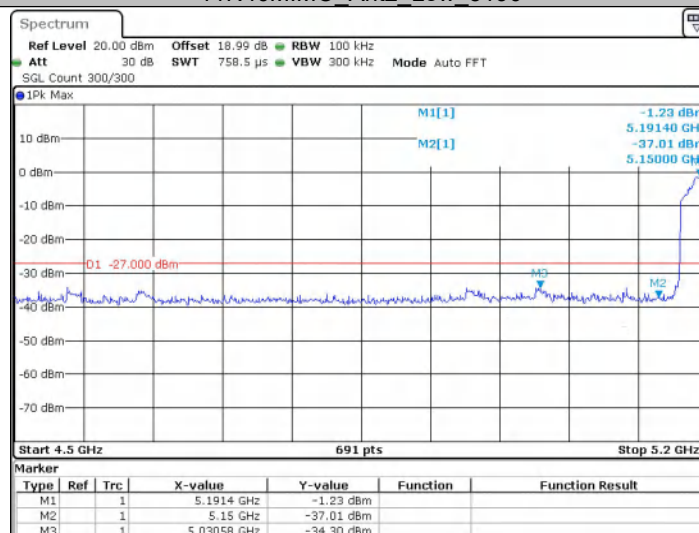
Date: 9 SEP 2025 20:15:23

11N20MIMO_Ant2_High_5240



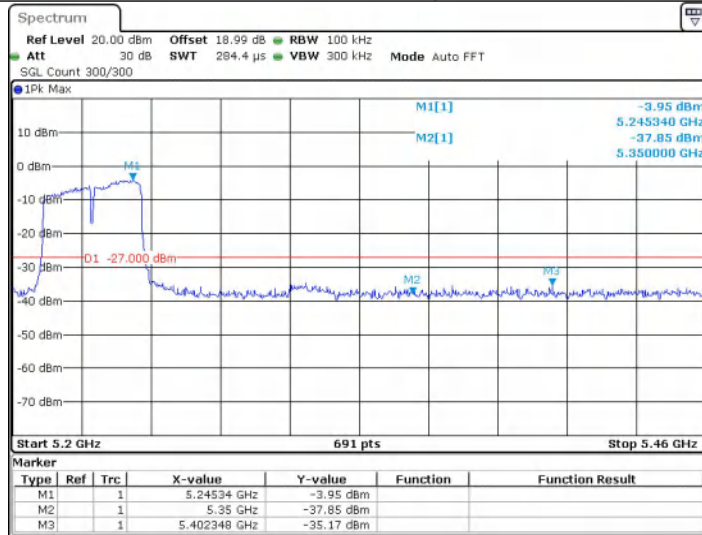
Date: 9 SEP 2025 20:20:10

11N40MIMO_Ant2_Low_5190



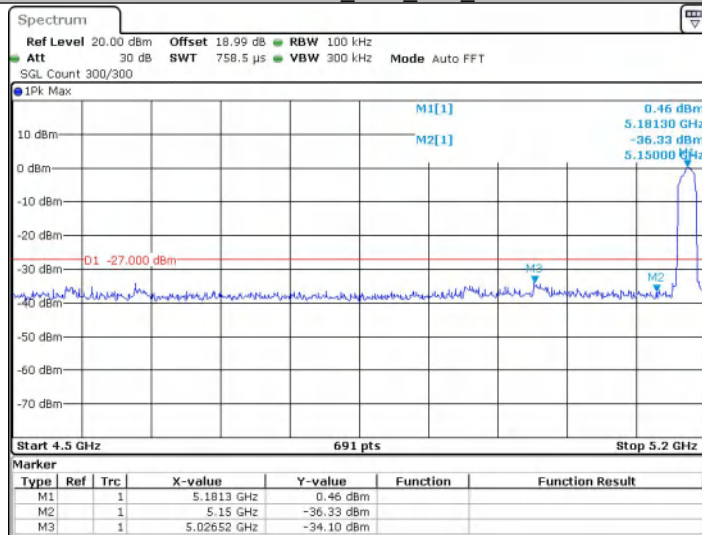
Date: 9 SEP 2025 20:29:54

11N40MIMO_Ant2_High_5230



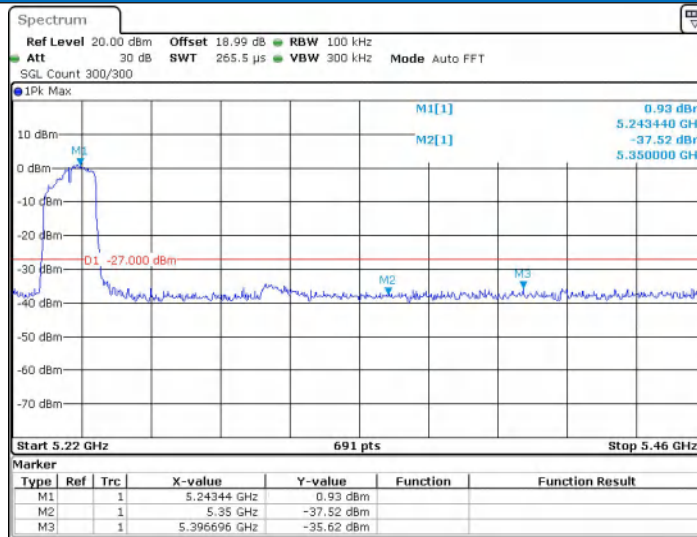
Date: 9 SEP 2025 20:32:19

11AC20MIMO_Ant2_Low_5180



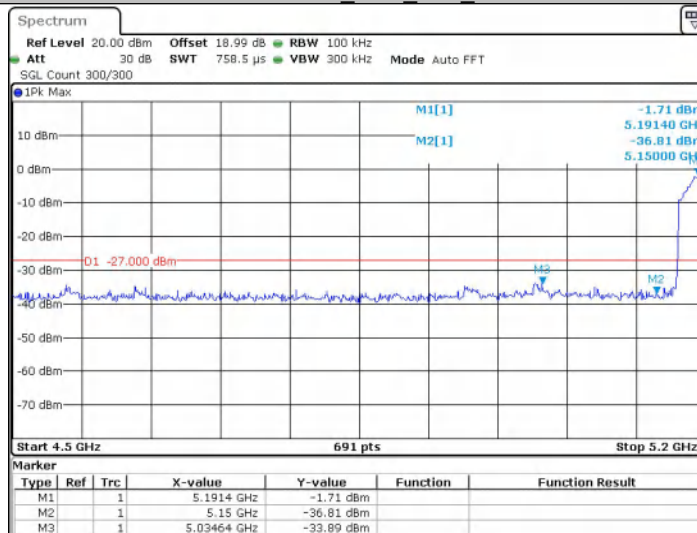
Date: 9 SEP 2025 20:39:04

11AC20MIMO_Ant2_High_5240



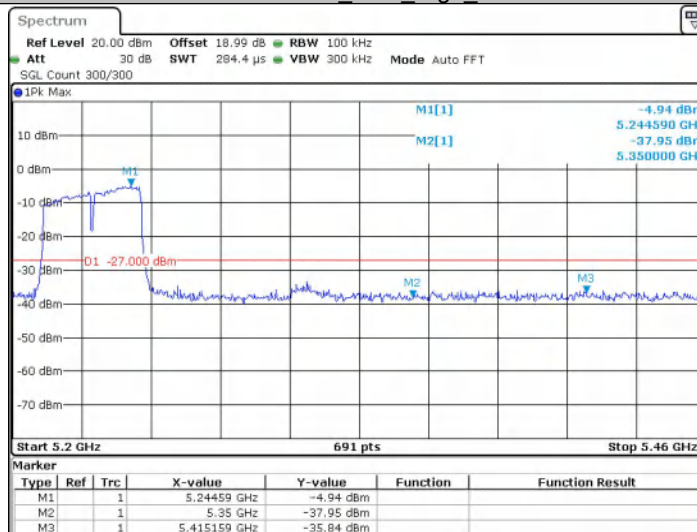
Date: 9 SEP 2025 20:43:32

11AC40MIMO_Ant2_Low_5190



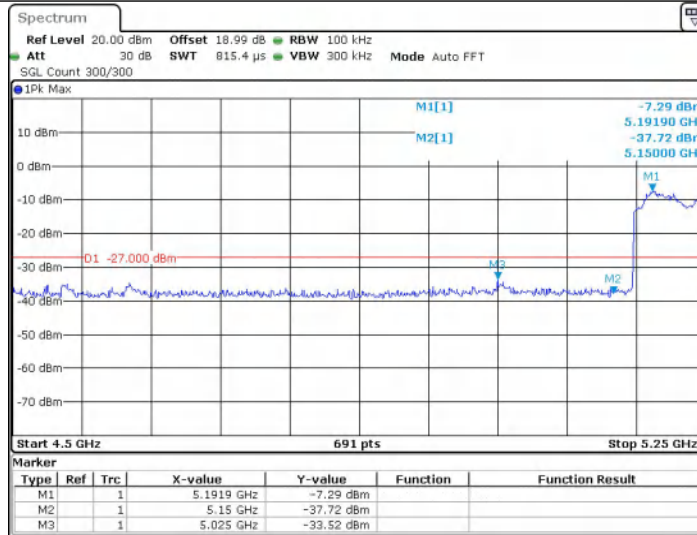
Date: 9 SEP 2025 20:50:56

11AC40MIMO_Ant2_High_5230



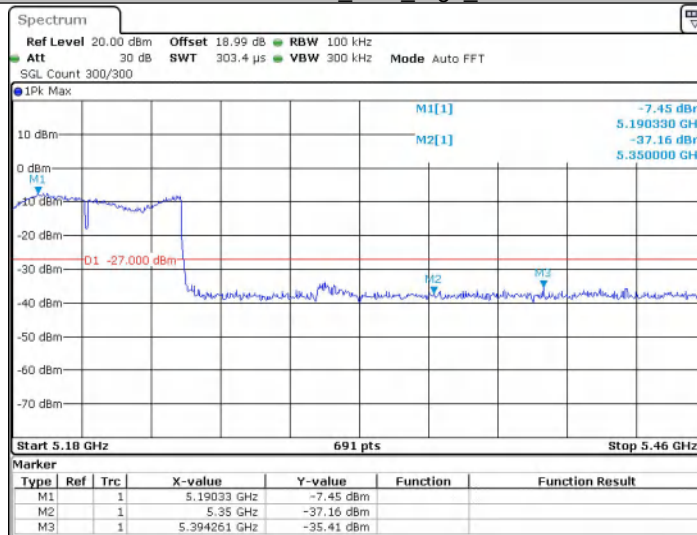
Date: 9 SEP 2025 20:53:22

11AC80MIMO_Ant2_Low_5210



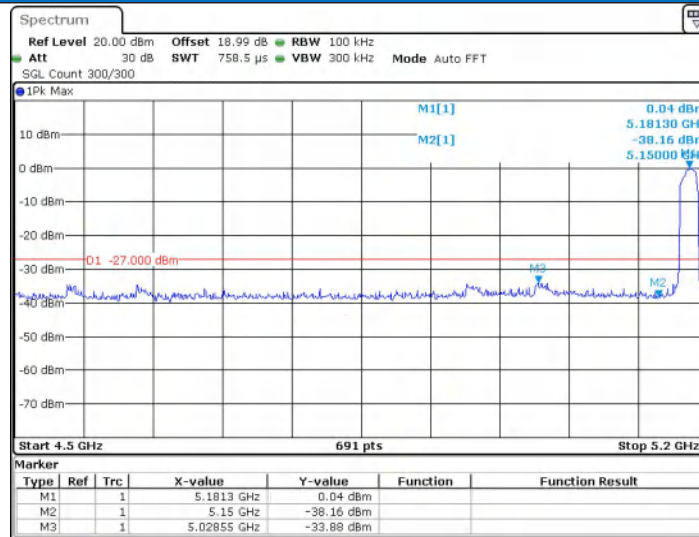
Date: 9 SEP.2025 21:00:01

11AC80MIMO_Ant2_High_5210



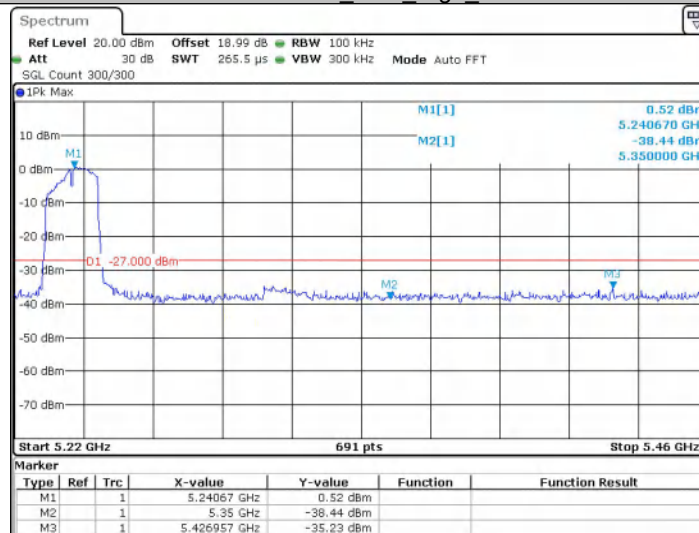
Date: 9 SEP.2025 21:00:14

11AX20MIMO_Ant2_Low_5180



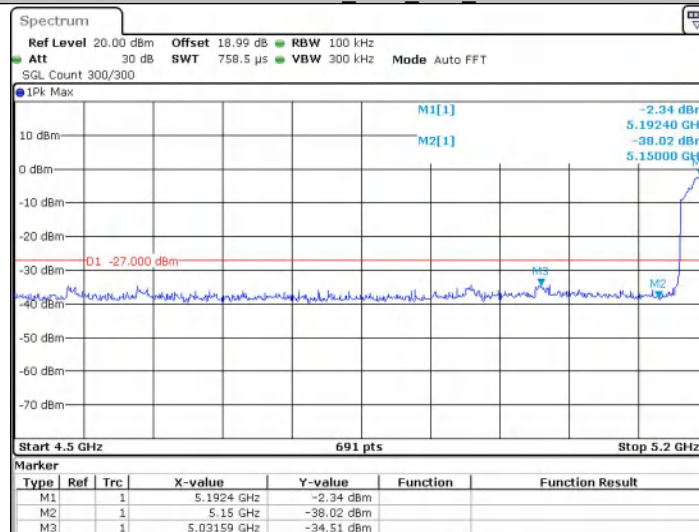
Date: 9 SEP 2025 21:07:03

11AX20MIMO_Ant2_High_5240



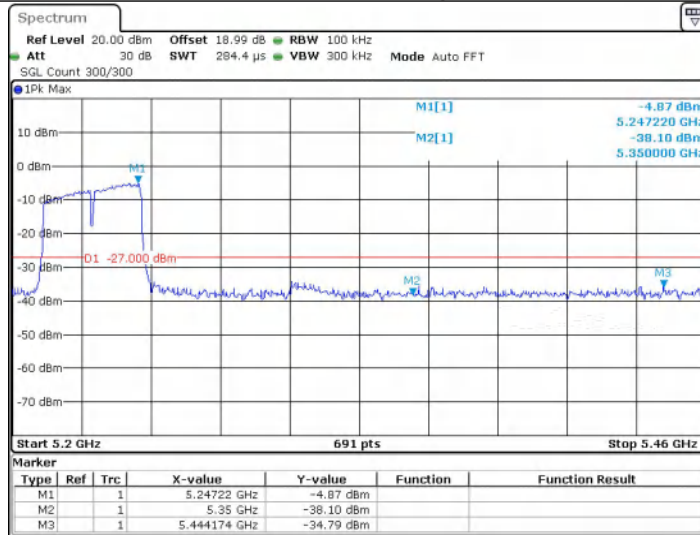
Date: 9 SEP 2025 21:11:28

11AX40MIMO_Ant2_Low_5190



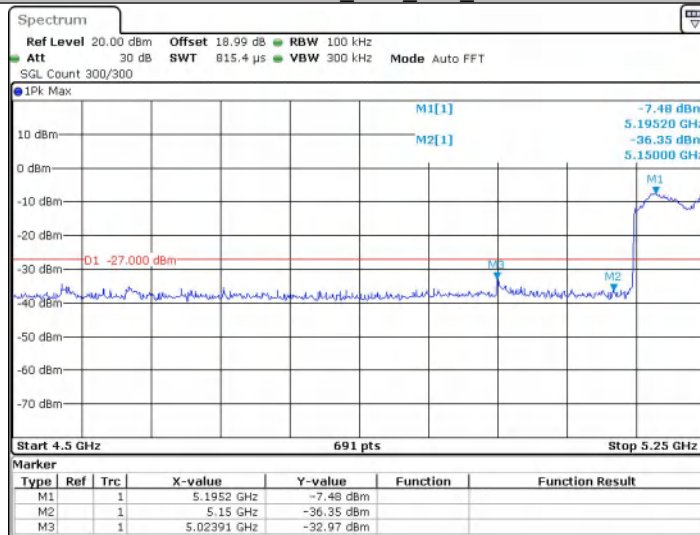
Date: 9 SEP 2025 21:23:16

11AX40MIMO_Ant2_High_5230



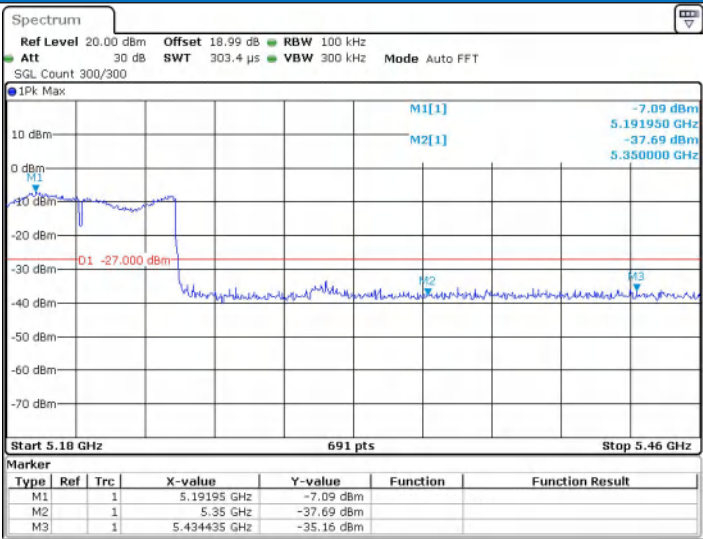
Date: 9 SEP.2025 21:27:01

11AX80MIMO_Ant2_Low_5210



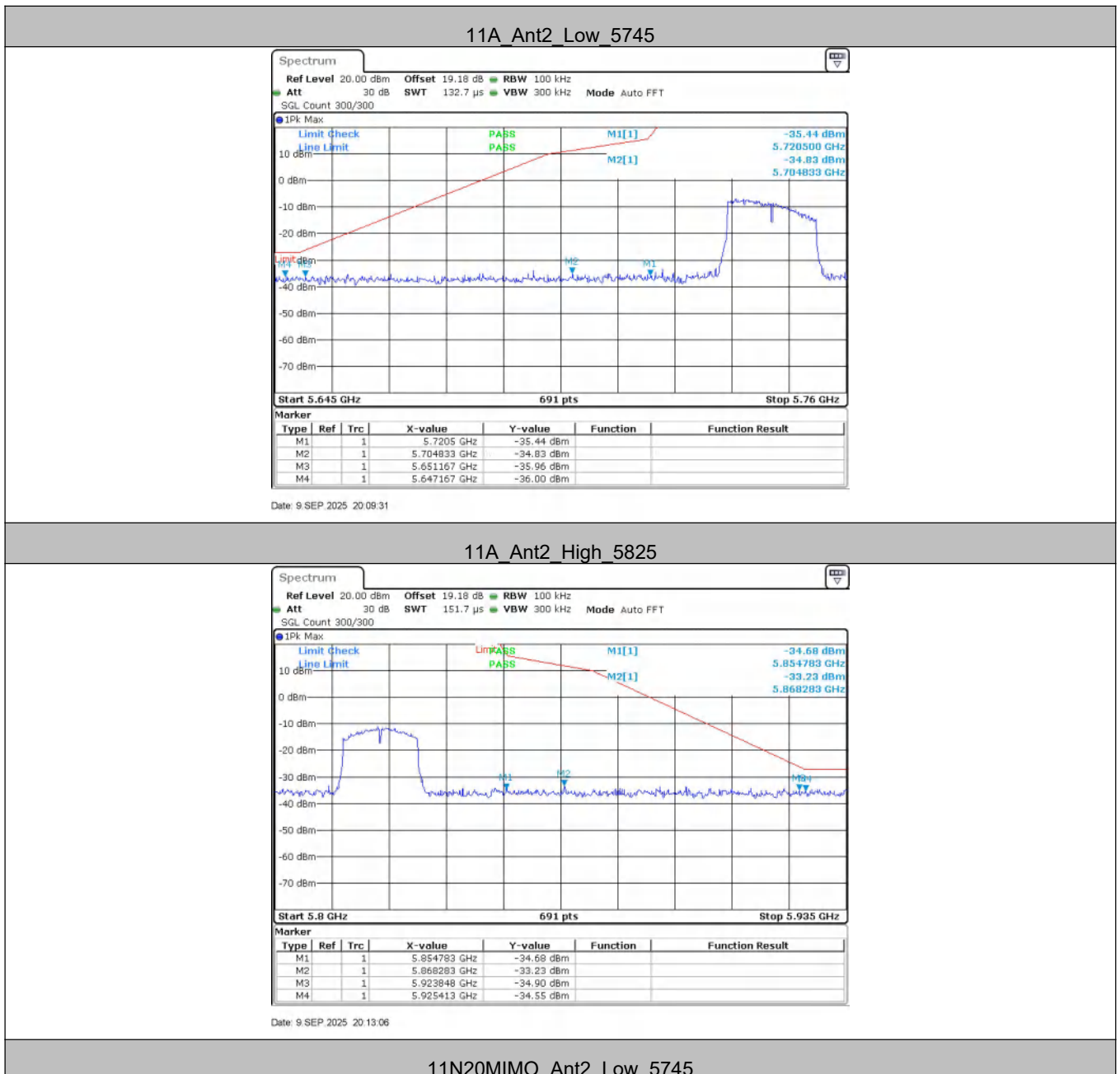
Date: 9 SEP.2025 21:34:49

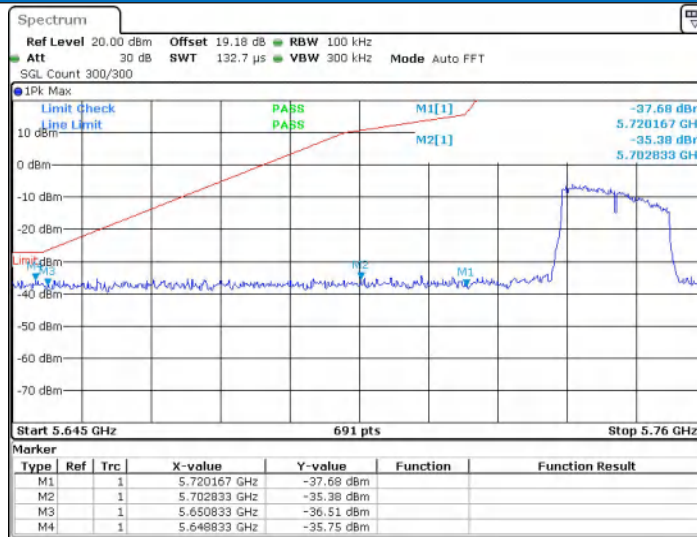
11AX80MIMO_Ant2_High_5210



Date: 9 SEP 2025 21:35:01

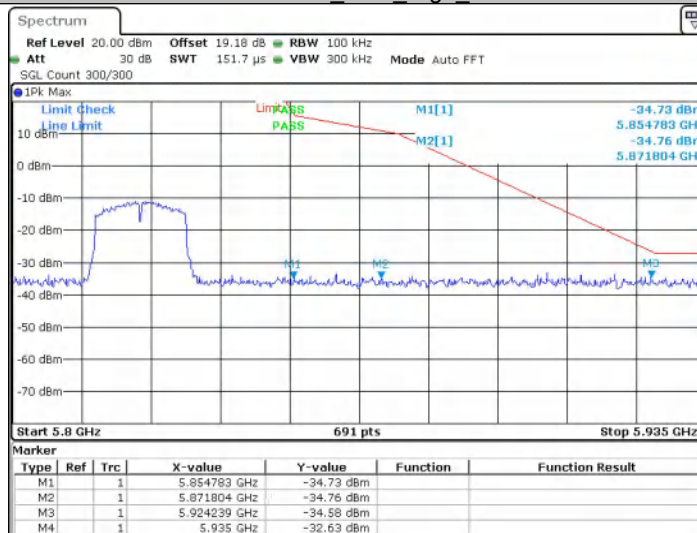
7.1.8 Test Graphs B4





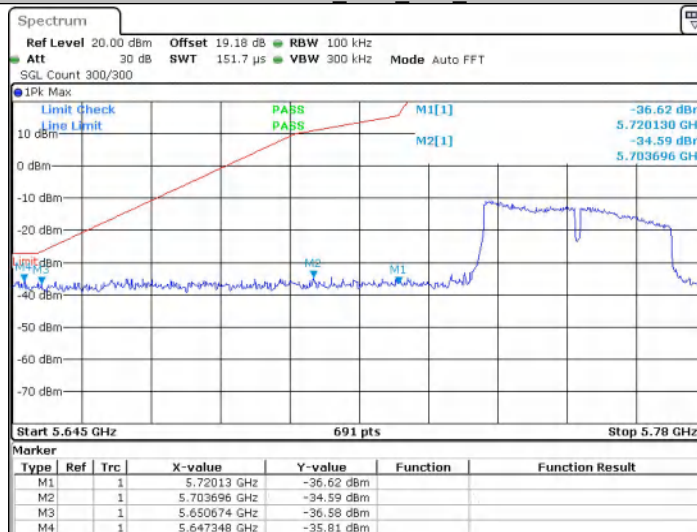
Date: 9 SEP 2025 20:24:02

11N20MIMO_Ant2_High_5825



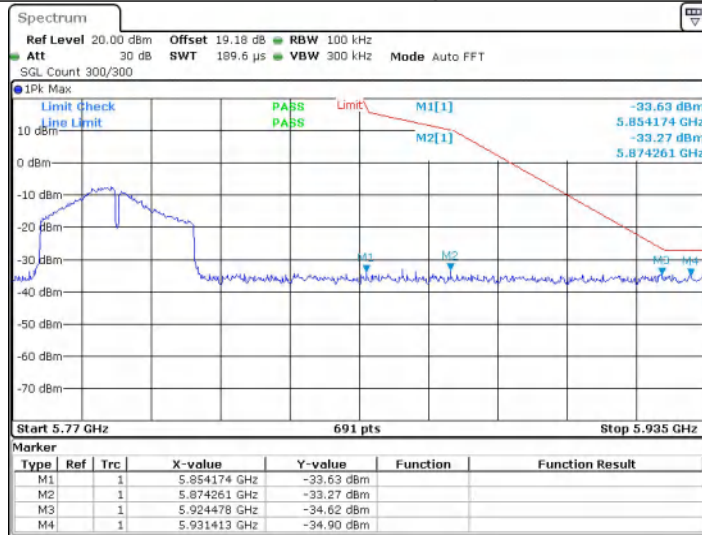
Date: 9 SEP 2025 20:27:11

11N40MIMO_Ant2_Low_5755



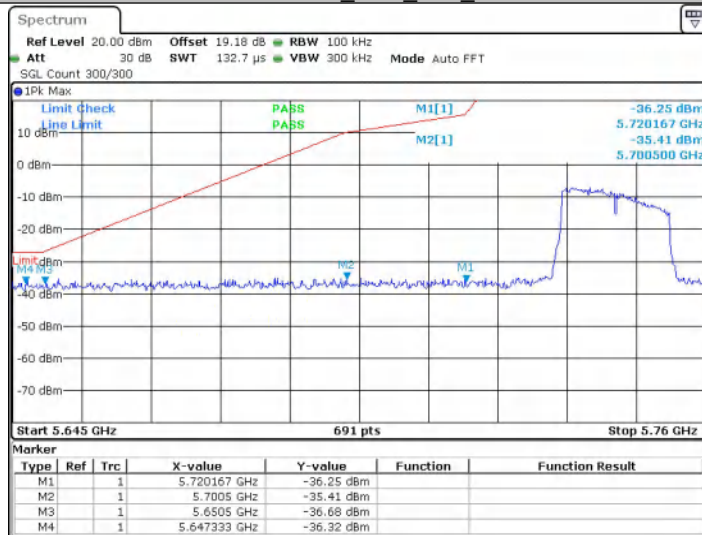
Date: 9 SEP 2025 20:34:47

11N40MIMO_Ant2_High_5795



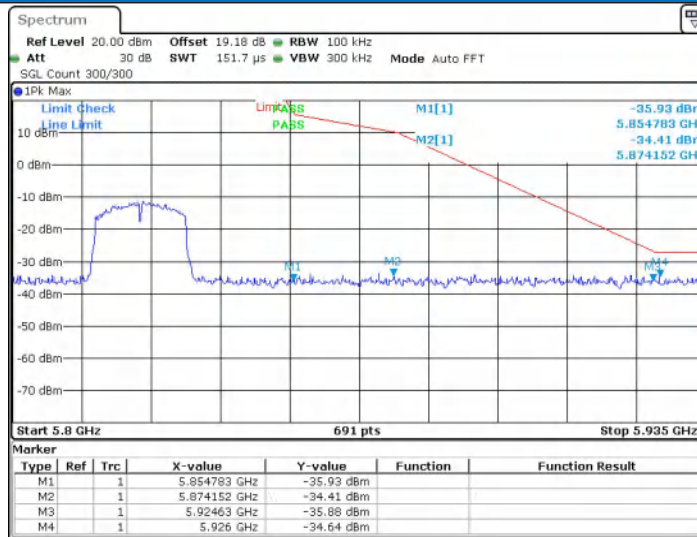
Date: 9 SEP 2025 20:36:37

11AC20MIMO_Ant2_Low_5745



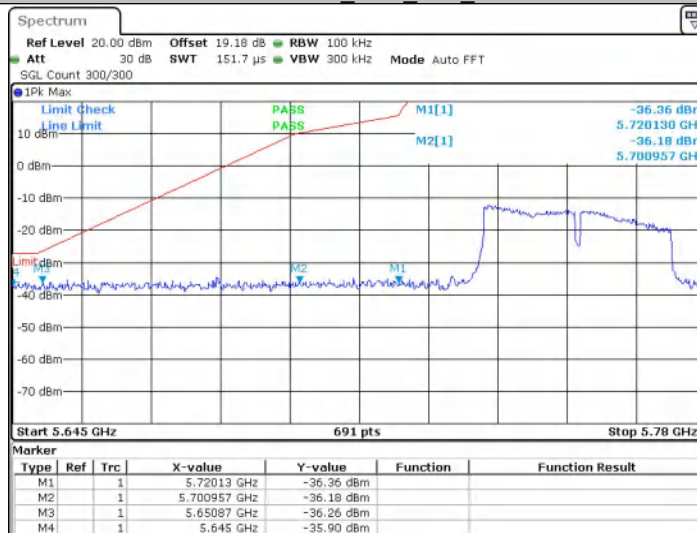
Date: 9 SEP 2025 20:45:45

11AC20MIMO_Ant2_High_5825



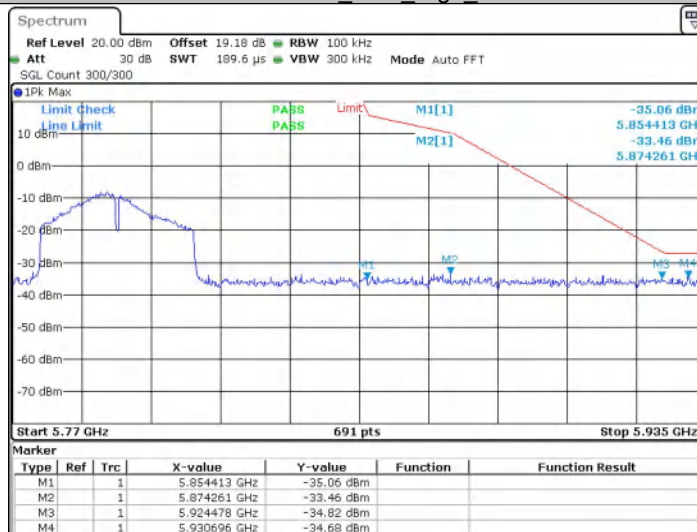
Date: 9 SEP 2025 20:48:52

11AC40MIMO_Ant2_Low_5755



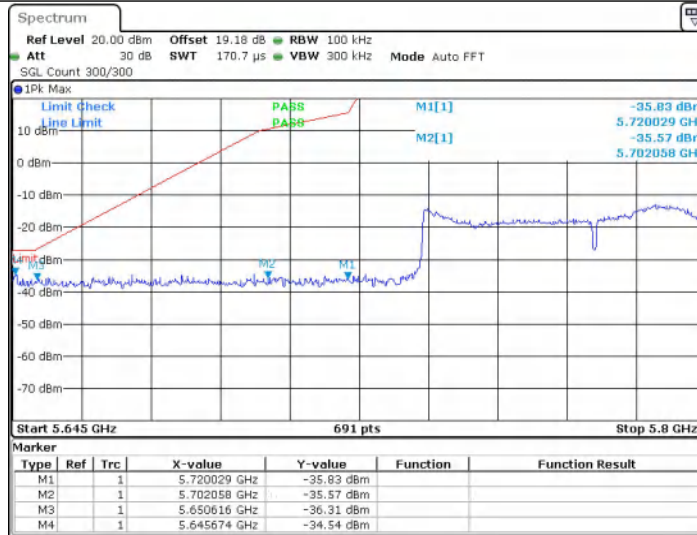
Date: 9 SEP 2025 20:58:12

11AC40MIMO_Ant2_High_5795



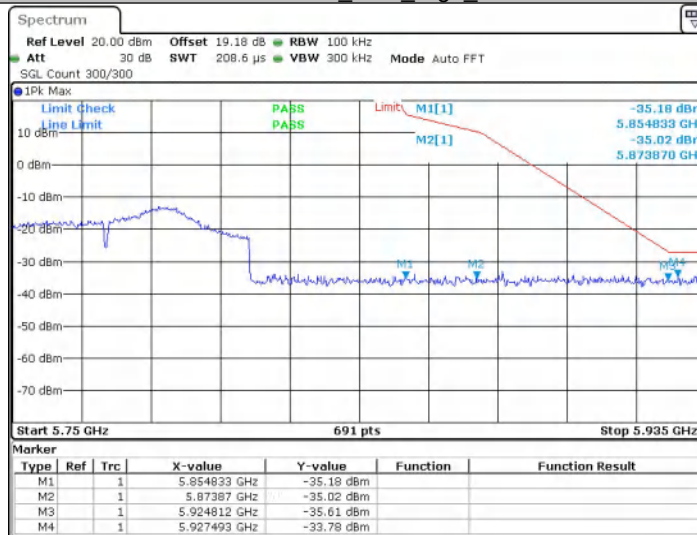
Date: 9 SEP 2025 20:57:57

11AC80MIMO_Ant2_Low_5775



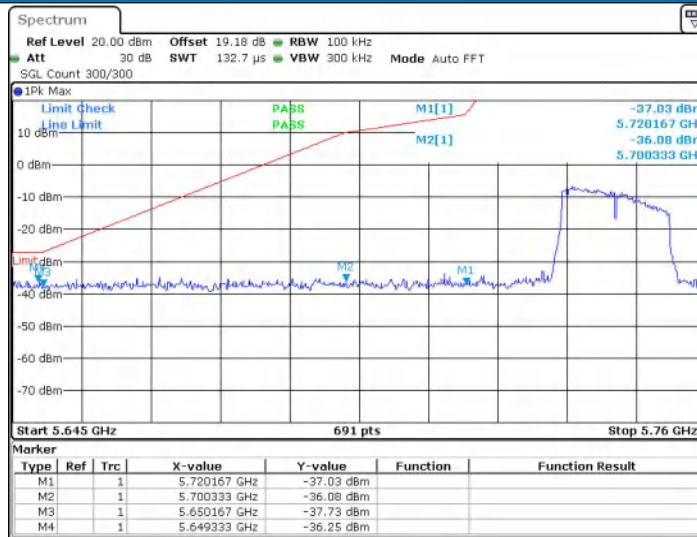
Date: 9 SEP. 2025 21:03:47

11AC80MIMO_Ant2_High_5775



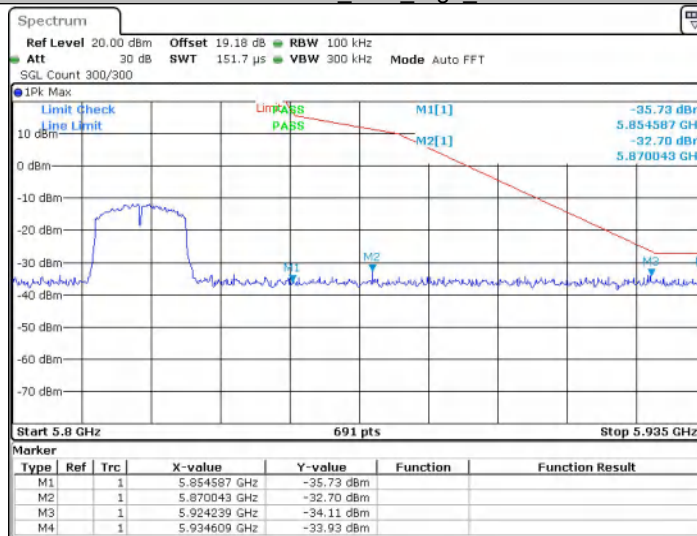
Date: 9 SEP. 2025 21:04:01

11AX20MIMO_Ant2_Low_5745



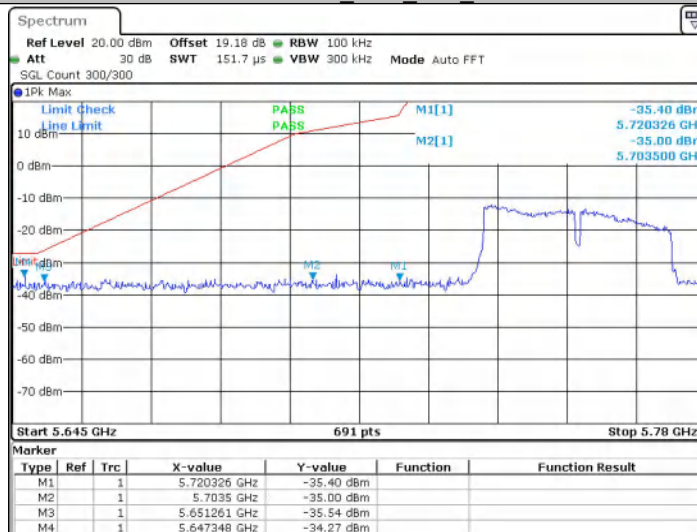
Date: 9 SEP 2025 21:13:32

11AX20MIMO_Ant2_High_5825



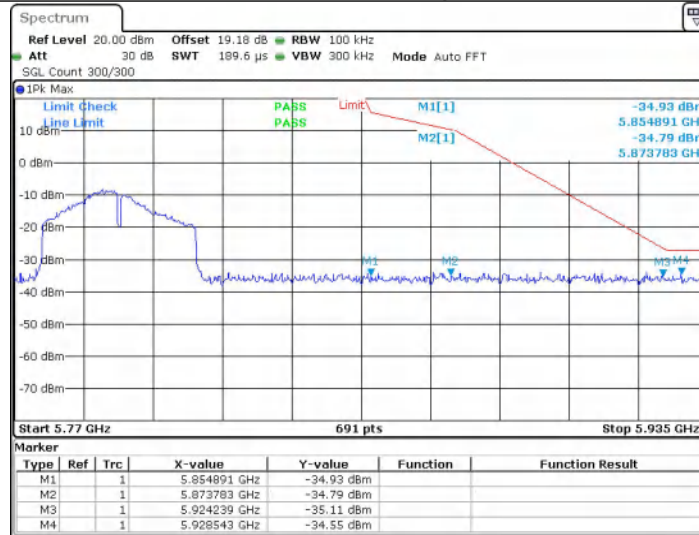
Date: 9 SEP 2025 21:17:30

11AX40MIMO_Ant2_Low_5755



Date: 9 SEP 2025 21:29:24

11AX40MIMO_Ant2_High_5795



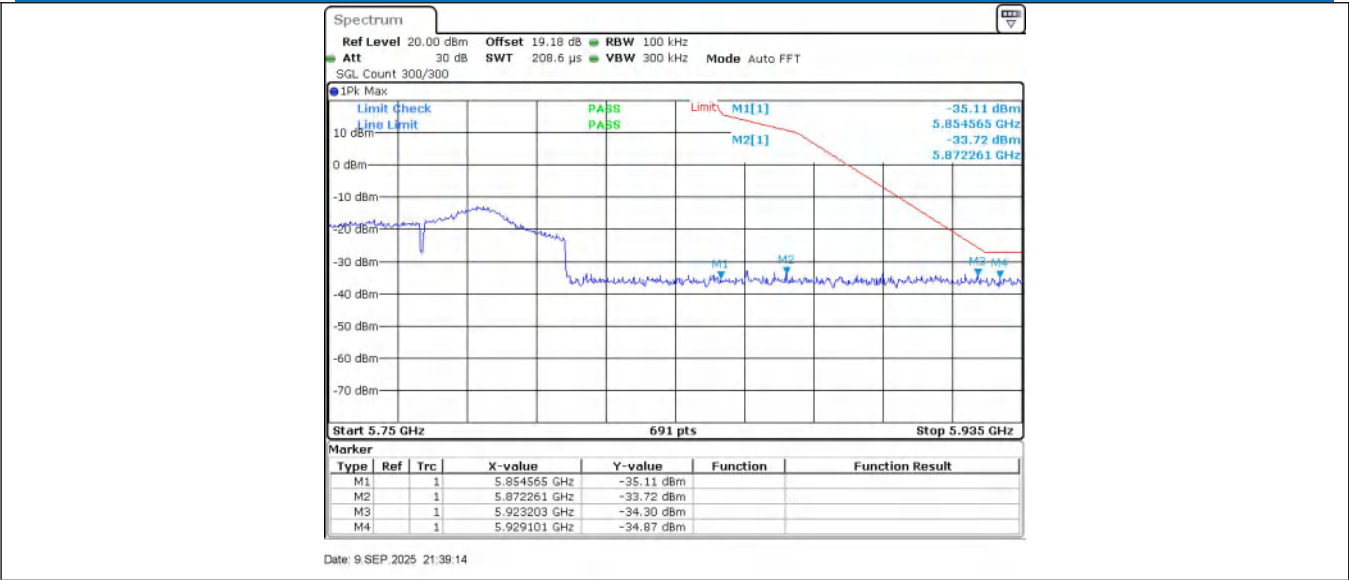
Date: 9 SEP.2025 21:31:31

11AX80MIMO_Ant2_Low_5775



Date: 9 SEP.2025 21:39:00

11AX80MIMO_Ant2_High_5775



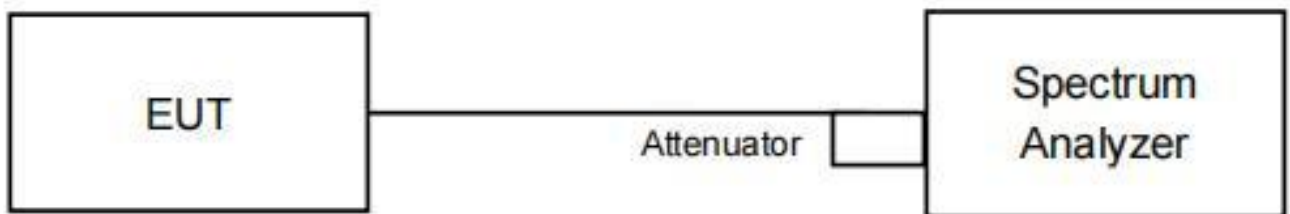
Appendix E): Frequency Stability

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

Test Method: ANSI C63.10 (2020) 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

Ant 1:

Frequency Stability Versus Temp.			
Operating Frequency: 5240 MHz			
Temp	Voltage	Measured Frequency	Limit
(°C)		(MHz)	(MHz)
50	VN	5240.11	5150-5250
40		5240.12	5150-5250
30		5240.11	5150-5250
20		5240.15	5150-5250
10		5240.11	5150-5250
0		5240.13	5150-5250
-10		5240.12	5150-5250
-30		5240.12	5150-5250

Frequency Stability Versus Temp.			
Operating Frequency: 5210 MHz			
Temp.	Voltage	Measured Frequency	Limit
		(MHz)	(MHz)
TN	VL	5240.11	5150-5250
	VN	5240.13	5150-5250
	VH	5240.12	5150-5250

Ant 2:

Frequency Stability Versus Temp.			
Operating Frequency: 5240 MHz			
Temp	Voltage	Measured Frequency	Limit
(°C)		(MHz)	(MHz)
50	VN	5240.13	5150-5250
40		5240.13	5150-5250
30		5240.12	5150-5250
20		5240.13	5150-5250
10		5240.12	5150-5250
0		5240.12	5150-5250
-10		5240.11	5150-5250
-30		5240.13	5150-5250

Frequency Stability Versus Temp.			
Operating Frequency: 5210 MHz			
Temp.	Voltage	Measured Frequency	Limit
		(MHz)	(MHz)
TN	VL	5240.13	5150-5250
	VN	5240.13	5150-5250
	VH	5240.13	5150-5250

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

Appendix F): Antenna Requirement

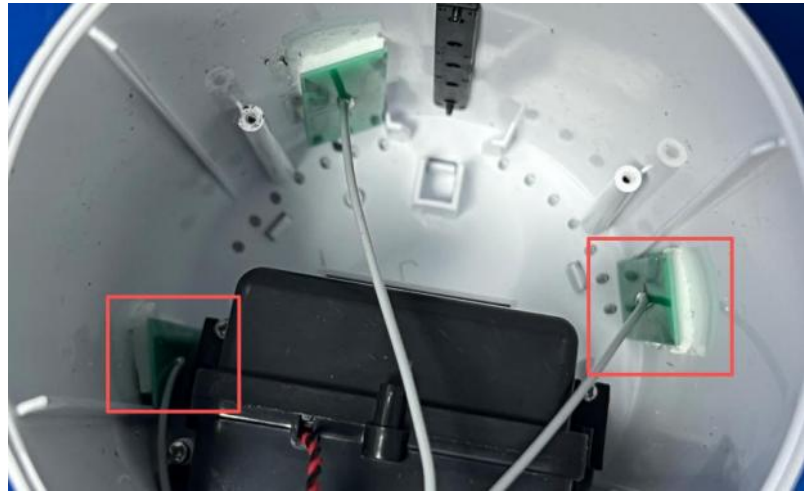
15.203 requirement:

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 PCB 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 signaling 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													

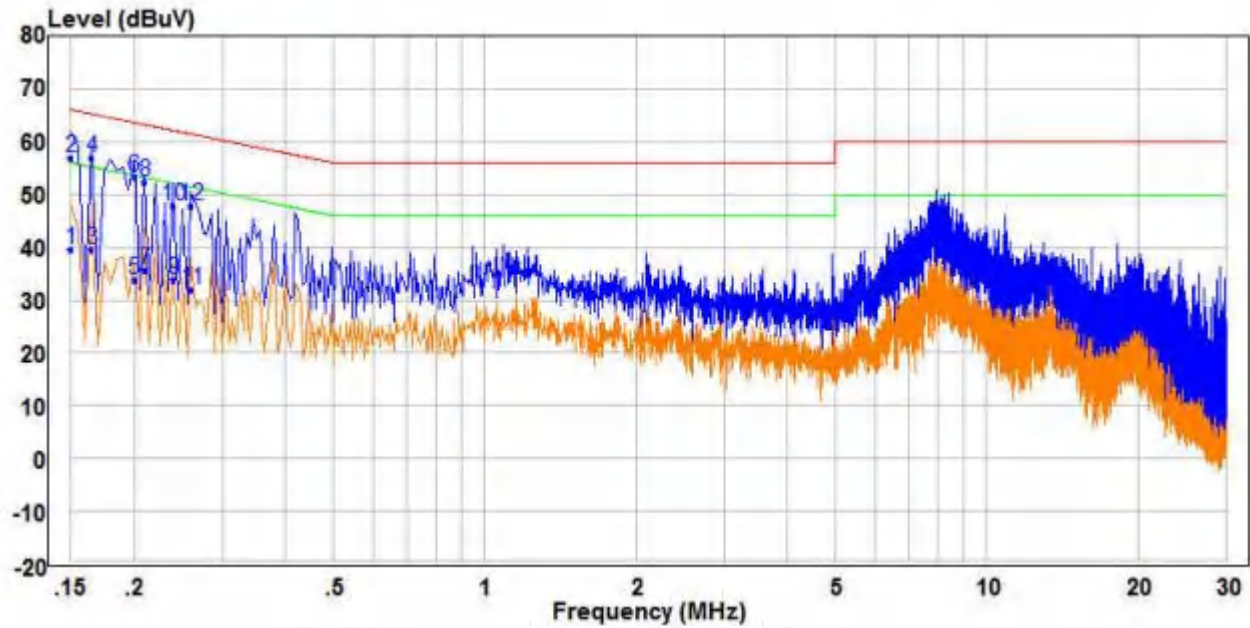
Measurement Data

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.

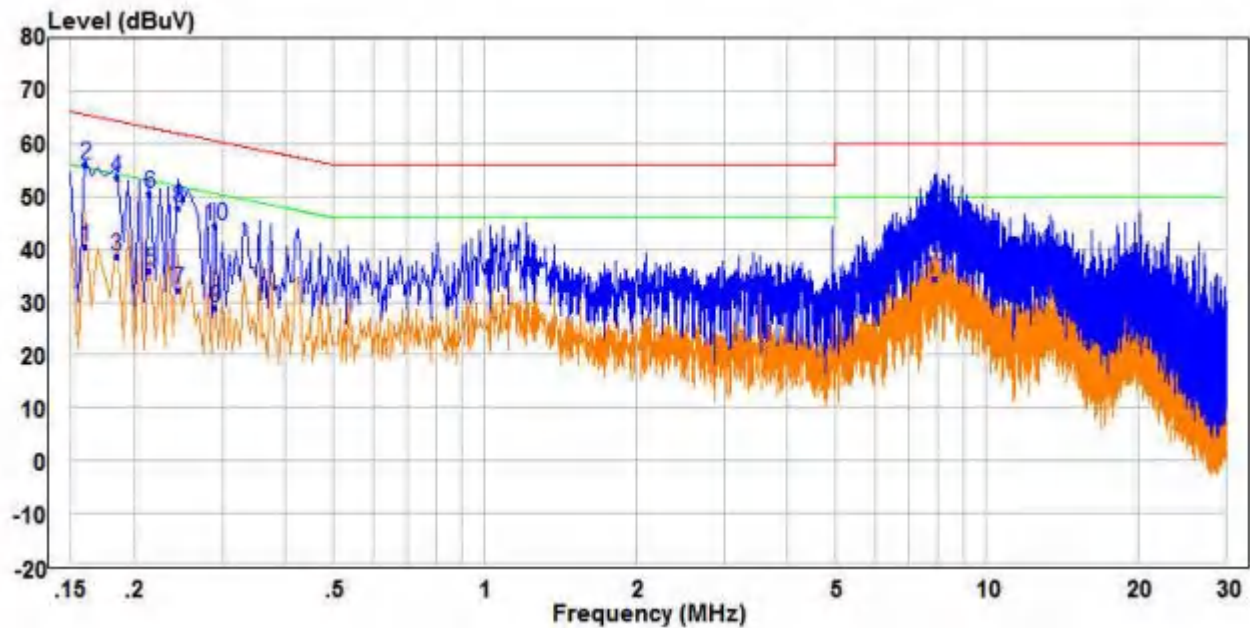
Ant 1:

Live line:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.150	30.02	9.70	39.72	56.00	-16.28	Average	Line
2	0.150	47.32	9.70	57.02	66.00	-8.98	QP	Line
3 AV	0.165	29.77	9.67	39.44	55.21	-15.77	Average	Line
4 PP	0.165	47.36	9.67	57.03	65.21	-8.18	QP	Line
5	0.200	24.29	9.61	33.90	53.61	-19.71	Average	Line
6	0.200	43.74	9.61	53.35	63.61	-10.26	QP	Line
7	0.210	26.14	9.60	35.74	53.21	-17.47	Average	Line
8	0.210	42.72	9.60	52.32	63.21	-10.89	QP	Line
9	0.240	24.29	9.56	33.85	52.10	-18.25	Average	Line
10	0.240	38.30	9.56	47.86	62.10	-14.24	QP	Line
11	0.260	22.37	9.53	31.90	51.43	-19.53	Average	Line
12	0.260	38.39	9.53	47.92	61.43	-13.51	QP	Line

Neutral line:



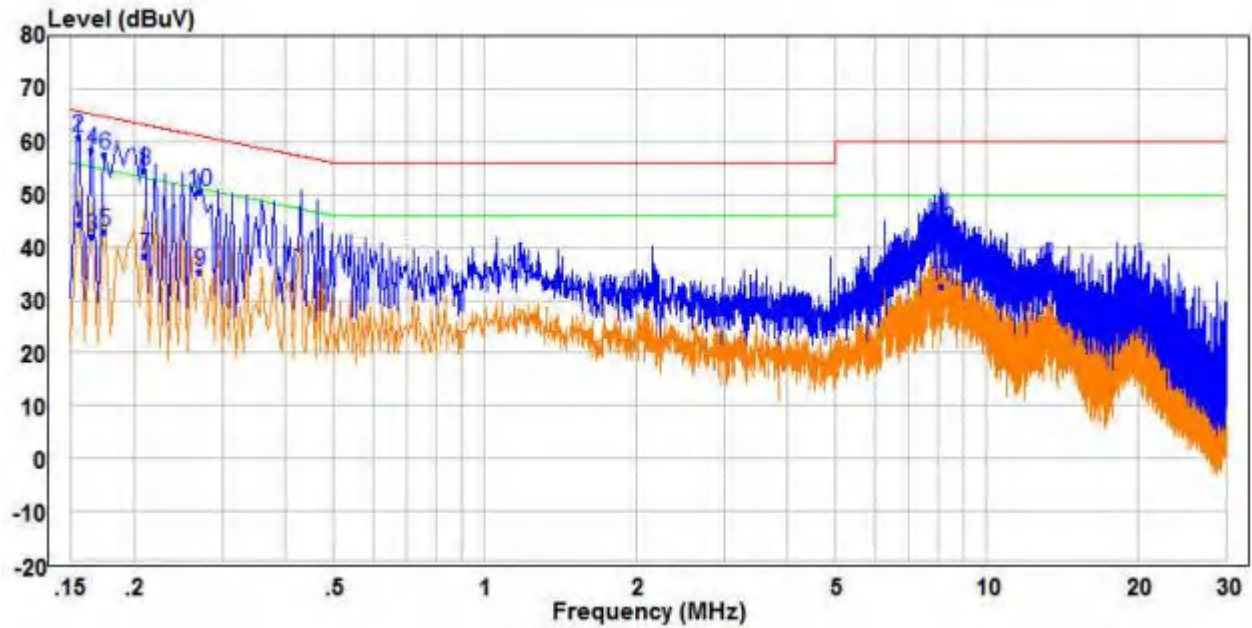
		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	AV	0.160	30.92	9.68	40.60	55.46	-14.86	Average	Neutral
2	PP	0.160	46.40	9.68	56.08	65.46	-9.38	QP	Neutral
3		0.185	28.96	9.63	38.59	54.26	-15.67	Average	Neutral
4		0.185	44.02	9.63	53.65	64.26	-10.61	QP	Neutral
5		0.215	26.24	9.59	35.83	53.01	-17.18	Average	Neutral
6		0.215	40.91	9.59	50.50	63.01	-12.51	QP	Neutral
7		0.245	22.86	9.54	32.40	51.92	-19.52	Average	Neutral
8		0.245	38.39	9.54	47.93	61.92	-13.99	QP	Neutral
9		0.290	19.34	9.49	28.83	50.52	-21.69	Average	Neutral
10		0.290	34.92	9.49	44.41	60.52	-16.11	QP	Neutral
11		7.910	24.51	9.83	34.34	50.00	-15.66	Average	Neutral
12		7.910	36.45	9.83	46.28	60.00	-13.72	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.

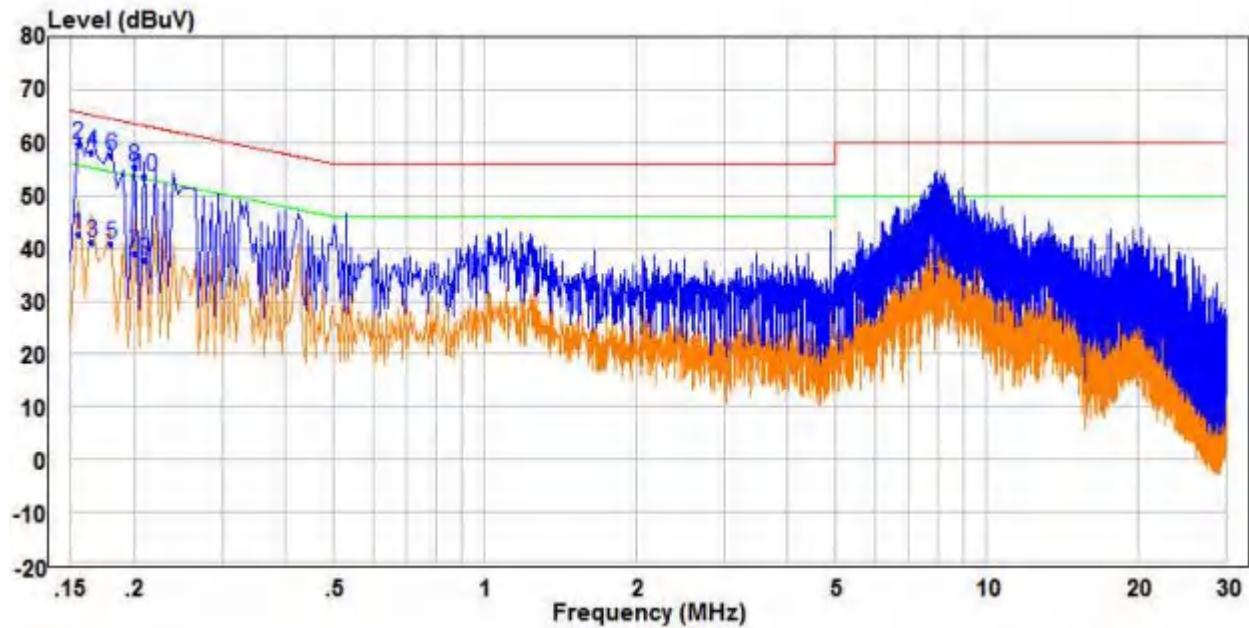
Ant 2:

Live line:



		Read		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase
1	AV	0.155	34.69	9.69	44.38	55.73	-11.35 Average
2	PP	0.155	51.11	9.69	60.80	65.73	-4.93 QP
3		0.165	32.36	9.67	42.03	55.21	-13.18 Average
4		0.165	48.78	9.67	58.45	65.21	-6.76 QP
5		0.175	33.18	9.65	42.83	54.72	-11.89 Average
6		0.175	47.72	9.65	57.37	64.72	-7.35 QP
7		0.210	28.72	9.60	38.32	53.21	-14.89 Average
8		0.210	44.75	9.60	54.35	63.21	-8.86 QP
9		0.270	25.89	9.52	35.41	51.12	-15.71 Average
10		0.270	40.96	9.52	50.48	61.12	-10.64 QP
11		8.095	22.61	9.84	32.45	50.00	-17.55 Average
12		8.095	33.47	9.84	43.31	60.00	-16.69 QP

Neutral line:



		Read		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase
1	AV	0.155	32.80	9.69	42.49	55.73	-13.24 Average
2	PP	0.155	49.82	9.69	59.51	65.73	-6.22 QP
3		0.165	31.40	9.67	41.07	55.21	-14.14 Average
4		0.165	48.49	9.67	58.16	65.21	-7.05 QP
5		0.180	31.25	9.64	40.89	54.49	-13.60 Average
6		0.180	47.99	9.64	57.63	64.49	-6.86 QP
7		0.200	29.24	9.61	38.85	53.61	-14.76 Average
8		0.200	45.84	9.61	55.45	63.61	-8.16 QP
9		0.210	28.20	9.59	37.79	53.21	-15.42 Average
10		0.210	43.88	9.59	53.47	63.21	-9.74 QP
11		7.960	26.14	9.83	35.97	50.00	-14.03 Average
12		7.960	38.29	9.83	48.12	60.00	-11.88 QP

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:

Ant 1:

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	58.46	-3.63	54.83	74	-19.17	peak	H	1.5	59
5150.00	44.30	-3.63	40.67	54	-13.33	AVG	H	1.5	342
5150.00	59.40	-3.63	55.77	74	-18.23	peak	V	1.5	351
5150.00	46.58	-3.63	42.95	54	-11.05	AVG	V	1.5	112

Worse case mode:		802.11a		Test channel:		48			
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	59.07	-3.59	55.48	74	-18.52	peak	H	1.5	60
5350.00	44.48	-3.59	40.89	54	-13.11	AVG	H	1.5	339
5350.00	59.72	-3.59	56.13	74	-17.87	peak	V	1.5	207
5350.00	46.05	-3.59	42.46	54	-11.54	AVG	V	1.5	121

Worse case mode:		802.11a		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)
5470.00	58.41	-3.44	54.97	74	-19.03	peak	H	1.5	31
5470.00	44.38	-3.44	40.94	54	-13.06	AVG	H	1.5	41
5470.00	58.02	-3.44	54.58	74	-19.42	peak	V	1.5	216
5470.00	45.98	-3.44	42.54	54	-11.46	AVG	V	1.5	92

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	58.39	-3.42	54.97	74	-19.03	peak	H	1.5	349
5850.00	44.48	-3.42	41.06	54	-12.94	AVG	H	1.5	119
5850.00	59.40	-3.42	55.98	74	-18.02	peak	V	1.5	189
5850.00	46.27	-3.42	42.85	54	-11.15	AVG	V	1.5	258

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

Ant 2:

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	270
5150.00	44.22	-3.63	40.59	54	-13.41	AVG	H	1.5	206
5150.00	59.84	-3.63	56.21	74	-17.79	peak	V	1.5	80
5150.00	46.98	-3.63	43.35	54	-10.65	AVG	V	1.5	41

Worse case mode:		802.11a		Test channel:		48			
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	58.99	-3.59	55.40	74	-18.60	peak	H	1.5	174
5350.00	44.91	-3.59	41.32	54	-12.68	AVG	H	1.5	230
5350.00	60.14	-3.59	56.55	74	-17.45	peak	V	1.5	180
5350.00	46.74	-3.59	43.15	54	-10.85	AVG	V	1.5	19

Worse case mode:		802.11a		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)
5470.00	58.00	-3.44	54.56	74	-19.44	peak	H	1.5	262
5470.00	44.05	-3.44	40.61	54	-13.39	AVG	H	1.5	354
5470.00	58.17	-3.44	54.73	74	-19.27	peak	V	1.5	178
5470.00	45.78	-3.44	42.34	54	-11.66	AVG	V	1.5	215

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	58.55	-3.42	55.13	74	-18.87	peak	H	1.5	252
5850.00	44.11	-3.42	40.69	54	-13.31	AVG	H	1.5	120
5850.00	60.13	-3.42	56.71	74	-17.29	peak	V	1.5	210
5850.00	46.75	-3.42	43.33	54	-10.67	AVG	V	1.5	328

**Ant1
+Ant2
(MIMO):**

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	58.56	-3.59	54.97	74	-19.03	peak	H	1.5	29
5150.00	44.20	-3.59	40.61	54	-13.39	AVG	H	1.5	347
5150.00	60.05	-3.59	56.46	74	-17.54	peak	V	1.5	29
5150.00	46.44	-3.59	42.85	54	-11.15	AVG	V	1.5	37

Worse case mode:		802.11n(HT20)		Test channel:		48			
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	57.50	-3.44	54.06	74	-19.94	peak	H	1.5	196
5350.00	43.59	-3.44	40.15	54	-13.85	AVG	H	1.5	201
5350.00	57.90	-3.44	54.46	74	-19.54	peak	V	1.5	109
5350.00	46.35	-3.44	42.91	54	-11.09	AVG	V	1.5	187

Worse case mode:		802.11n(HT20)		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)
5470.00	58.53	-3.42	55.11	74	-18.89	peak	H	1.5	74
5470.00	44.24	-3.42	40.82	54	-13.18	AVG	H	1.5	46
5470.00	59.41	-3.42	55.99	74	-18.01	peak	V	1.5	358
5470.00	46.15	-3.42	42.73	54	-11.27	AVG	V	1.5	220

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	58.97	-3.63	55.34	74	-18.66	peak	H	1.5	20
5850.00	44.96	-3.63	41.33	54	-12.67	AVG	H	1.5	334
5850.00	59.94	-3.63	56.31	74	-17.69	peak	V	1.5	131
5850.00	46.85	-3.63	43.22	54	-10.78	AVG	V	1.5	85

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	59.13	-3.59	55.54	74	-18.46	peak	H	1.5	240
5150.00	44.46	-3.59	40.87	54	-13.13	AVG	H	1.5	99
5150.00	59.96	-3.59	56.37	74	-17.63	peak	V	1.5	190

5150.00	46.84	-3.59	43.25	54	-10.75	AVG	V	1.5	98
---------	-------	-------	-------	----	--------	-----	---	-----	----

Worse case mode:		802.11n(HT40)		Test channel:		48			
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	58.16	-3.44	54.72	74	-19.28	peak	H	1.5	258
5350.00	44.30	-3.44	40.86	54	-13.14	AVG	H	1.5	147
5350.00	57.82	-3.44	54.38	74	-19.62	peak	V	1.5	272
5350.00	46.25	-3.44	42.81	54	-11.19	AVG	V	1.5	206

Worse case mode:		802.11n(HT40)		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)
5470.00	58.28	-3.42	54.86	74	-19.14	peak	H	1.5	304
5470.00	44.55	-3.42	41.13	54	-12.87	AVG	H	1.5	276
5470.00	59.67	-3.42	56.25	74	-17.75	peak	V	1.5	43
5470.00	46.70	-3.42	43.28	54	-10.72	AVG	V	1.5	254

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	58.61	-3.63	54.98	74	-19.02	peak	H	1.5	172
5850.00	43.99	-3.63	40.36	54	-13.64	AVG	H	1.5	260
5850.00	59.91	-3.63	56.28	74	-17.72	peak	V	1.5	313
5850.00	46.93	-3.63	43.30	54	-10.70	AVG	V	1.5	63

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	59.17	-3.59	55.58	74	-18.42	peak	H	1.5	182
5150.00	44.43	-3.59	40.84	54	-13.16	AVG	H	1.5	11
5150.00	60.11	-3.59	56.52	74	-17.48	peak	V	1.5	61
5150.00	46.21	-3.59	42.62	54	-11.38	AVG	V	1.5	216

Worse case mode:		802.11ac(VHT20)		Test channel:		48			
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	58.27	-3.44	54.83	74	-19.17	peak	H	1.5	2
5350.00	43.90	-3.44	40.46	54	-13.54	AVG	H	1.5	273
5350.00	58.04	-3.44	54.60	74	-19.40	peak	V	1.5	116
5350.00	46.17	-3.44	42.73	54	-11.27	AVG	V	1.5	336

Worse case mode:		802.11ac(VHT20)		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)
5470.00	58.68	-3.42	55.26	74	-18.74	peak	H	1.5	333
5470.00	44.08	-3.42	40.66	54	-13.34	AVG	H	1.5	325
5470.00	60.12	-3.42	56.70	74	-17.30	peak	V	1.5	4
5470.00	46.08	-3.42	42.66	54	-11.34	AVG	V	1.5	328

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	58.60	-3.59	55.01	74	-18.99	peak	H	1.5	189
5850.00	44.43	-3.59	40.84	54	-13.16	AVG	H	1.5	84
5850.00	59.58	-3.59	55.99	74	-18.01	peak	V	1.5	357
5850.00	46.05	-3.59	42.46	54	-11.54	AVG	V	1.5	138

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	58.07	-3.44	54.63	74	-19.37	peak	H	1.5	204
5150.00	44.06	-3.44	40.62	54	-13.38	AVG	H	1.5	41
5150.00	58.42	-3.44	54.98	74	-19.02	peak	V	1.5	40
5150.00	46.39	-3.44	42.95	54	-11.05	AVG	V	1.5	30

Worse case mode:		802.11ac(VHT40)		Test channel:		48			
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	58.25	-3.42	54.83	74	-19.17	peak	H	1.5	313
5350.00	44.86	-3.42	41.44	54	-12.56	AVG	H	1.5	39
5350.00	59.30	-3.42	55.88	74	-18.12	peak	V	1.5	234
5350.00	46.61	-3.42	43.19	54	-10.81	AVG	V	1.5	343

Worse case mode:		802.11ac(VHT40)		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)
5470.00	58.41	-3.63	54.78	74	-19.22	peak	H	1.5	133
5470.00	44.52	-3.63	40.89	54	-13.11	AVG	H	1.5	136
5470.00	59.91	-3.63	56.28	74	-17.72	peak	V	1.5	132
5470.00	46.02	-3.63	42.39	54	-11.61	AVG	V	1.5	52

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	59.06	-3.59	55.47	74	-18.53	peak	H	1.5	238
5850.00	44.11	-3.59	40.52	54	-13.48	AVG	H	1.5	206
5850.00	59.47	-3.59	55.88	74	-18.12	peak	V	1.5	290
5850.00	46.51	-3.59	42.92	54	-11.08	AVG	V	1.5	157

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	58.15	-3.44	54.71	74	-19.29	peak	H	1.5	153
5150.00	43.73	-3.44	40.29	54	-13.71	AVG	H	1.5	353
5150.00	57.56	-3.44	54.12	74	-19.88	peak	V	1.5	163
5150.00	45.58	-3.44	42.14	54	-11.86	AVG	V	1.5	281

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)
5350.00	59.06	-3.42	55.64	74	-18.36	peak	H	1.5	50
5350.00	44.95	-3.42	41.53	54	-12.47	AVG	H	1.5	228
5350.00	59.70	-3.42	56.28	74	-17.72	peak	V	1.5	356
5350.00	46.93	-3.42	43.51	54	-10.49	AVG	V	1.5	34

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)
5470.00	58.62	-3.63	54.99	74	-19.01	peak	H	1.5	22
5470.00	44.53	-3.63	40.90	54	-13.10	AVG	H	1.5	205
5470.00	59.25	-3.63	55.62	74	-18.38	peak	V	1.5	212
5470.00	46.17	-3.63	42.54	54	-11.46	AVG	V	1.5	334

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	59.03	-3.59	55.44	74	-18.56	peak	H	1.5	182
5850.00	44.75	-3.59	41.16	54	-12.84	AVG	H	1.5	274
5850.00	59.25	-3.59	55.66	74	-18.34	peak	V	1.5	353
5850.00	46.51	-3.59	42.92	54	-11.08	AVG	V	1.5	234

Worse case mode:		802.11ax(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	57.75	-3.44	54.31	74	-19.69	peak	H	1.5	255
5150.00	43.51	-3.44	40.07	54	-13.93	AVG	H	1.5	284
5150.00	57.79	-3.44	54.35	74	-19.65	peak	V	1.5	46
5150.00	45.50	-3.44	42.06	54	-11.94	AVG	V	1.5	75

Worse case mode:		802.11ax(VHT20)		Test channel:		48			
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	58.63	-3.42	55.21	74	-18.79	peak	H	1.5	80
5350.00	44.55	-3.42	41.13	54	-12.87	AVG	H	1.5	289
5350.00	59.76	-3.42	56.34	74	-17.66	peak	V	1.5	322
5350.00	46.60	-3.42	43.18	54	-10.82	AVG	V	1.5	46

Worse case mode:		802.11ax(VHT20)		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)
5470.00	58.56	-3.63	54.93	74	-19.07	peak	H	1.5	66
5470.00	44.97	-3.63	41.34	54	-12.66	AVG	H	1.5	142
5470.00	59.52	-3.63	55.89	74	-18.11	peak	V	1.5	282
5470.00	46.49	-3.63	42.86	54	-11.14	AVG	V	1.5	83

Worse case mode:		802.11ax(VHT20)		Test channel:		165			
Frequency	Meter Reading	Faxtor	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	58.87	-3.59	55.28	74	-18.72	peak	H	1.5	110
5850.00	44.90	-3.59	41.31	54	-12.69	AVG	H	1.5	104
5850.00	59.84	-3.59	56.25	74	-17.75	peak	V	1.5	43
5850.00	46.16	-3.59	42.57	54	-11.43	AVG	V	1.5	215

Worse case mode:		802.11ax(VHT40)		Test channel:		38			
Frequency	Meter Reading	Faxtor	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	58.09	-3.44	54.65	74	-19.35	peak	H	1.5	322
5150.00	43.59	-3.44	40.15	54	-13.85	AVG	H	1.5	204
5150.00	58.19	-3.44	54.75	74	-19.25	peak	V	1.5	135
5150.00	45.51	-3.44	42.07	54	-11.93	AVG	V	1.5	209

Worse case mode:		802.11ax(VHT40)		Test channel:		48			
Frequency	Meter Reading	Faxtor	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	58.38	-3.63	54.75	74	-19.25	peak	H	1.5	236
5350.00	44.25	-3.63	40.62	54	-13.38	AVG	H	1.5	2
5350.00	60.21	-3.63	56.58	74	-17.42	peak	V	1.5	172
5350.00	46.56	-3.63	42.93	54	-11.07	AVG	V	1.5	140

Worse case mode:		802.11ax(VHT40)		Test channel:		149			
Frequency	Meter Reading	Faxtor	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	58.44	-3.59	54.85	74	-19.15	peak	H	1.5	321
5470.00	44.74	-3.59	41.15	54	-12.85	AVG	H	1.5	61
5470.00	59.76	-3.59	56.17	74	-17.83	peak	V	1.5	285
5470.00	46.96	-3.59	43.37	54	-10.63	AVG	V	1.5	314

Worse case mode:		802.11ax(VHT40)		Test channel:		159			
Frequency	Meter Reading	Faxtor	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	58.07	-3.44	54.63	74	-19.37	peak	H	1.5	29
5850.00	44.25	-3.44	40.81	54	-13.19	AVG	H	1.5	318
5850.00	57.51	-3.44	54.07	74	-19.93	peak	V	1.5	277
5850.00	45.91	-3.44	42.47	54	-11.53	AVG	V	1.5	52

Worse case mode:		802.11ax(VHT80)		Test channel:		42			
Frequency	Meter Reading	Faxtor	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	58.72	-3.42	55.30	74	-18.70	peak	H	1.5	241
5150.00	44.56	-3.42	41.14	54	-12.86	AVG	H	1.5	87
5150.00	59.85	-3.42	56.43	74	-17.57	peak	V	1.5	309
5150.00	46.72	-3.42	43.30	54	-10.70	AVG	V	1.5	99

Worse case mode:		802.11ax(VHT80)		Test channel:		42			
Frequency	Meter Reading	Faxtor	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	58.44	-3.63	54.81	74	-19.19	peak	H	1.5	177
5350.00	44.98	-3.63	41.35	54	-12.65	AVG	H	1.5	146
5350.00	60.08	-3.63	56.45	74	-17.55	peak	V	1.5	68
5350.00	46.83	-3.63	43.20	54	-10.80	AVG	V	1.5	204

Worse case mode:		802.11ax(VHT80)		Test channel:		155			
Frequency	Meter Reading	Faxtor	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	58.95	-3.59	55.36	74	-18.64	peak	H	1.5	124
5470.00	44.17	-3.59	40.58	54	-13.42	AVG	H	1.5	97
5470.00	59.50	-3.59	55.91	74	-18.09	peak	V	1.5	153
5470.00	46.89	-3.59	43.30	54	-10.70	AVG	V	1.5	144

Worse case mode:		802.11ax(VHT80)		Test channel:		155			
Frequency	Meter Reading	Faxtor	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	57.73	-3.44	54.29	74	-19.71	peak	H	1.5	82
5850.00	43.60	-3.44	40.16	54	-13.84	AVG	H	1.5	15
5850.00	58.39	-3.44	54.95	74	-19.05	peak	V	1.5	293
5850.00	46.42	-3.44	42.98	54	-11.02	AVG	V	1.5	138

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

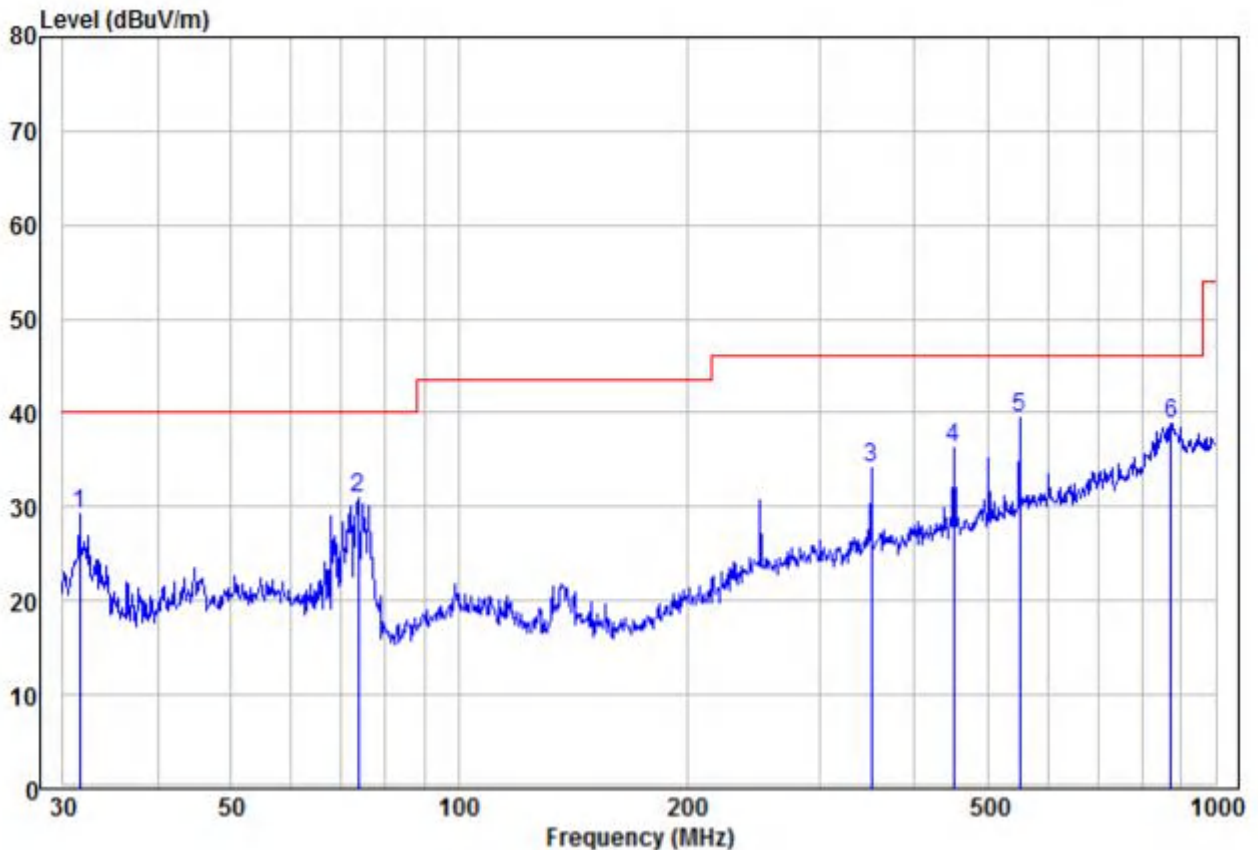
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	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:

Ant 1:

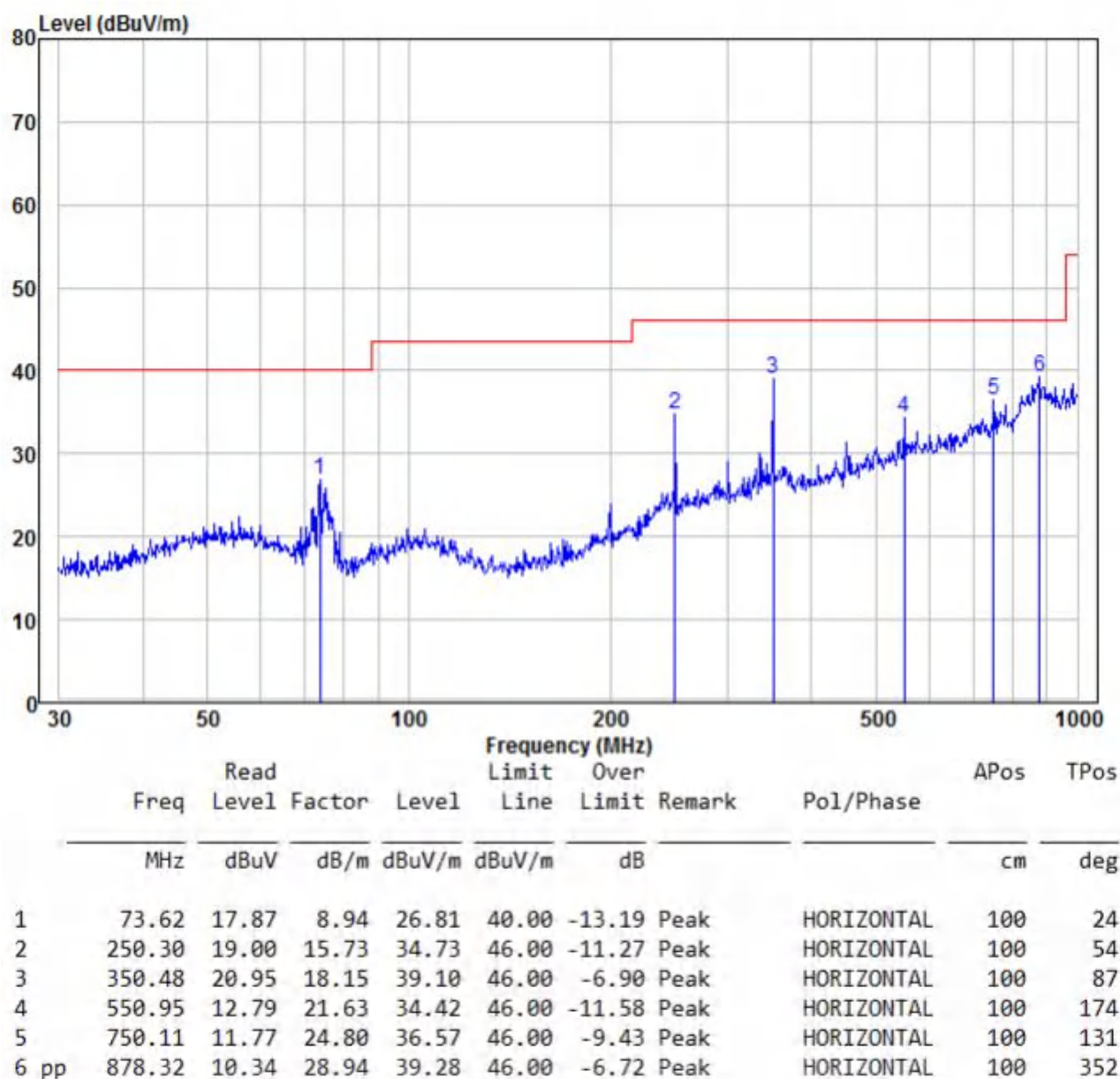
Radiated Emission below 1GHz

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

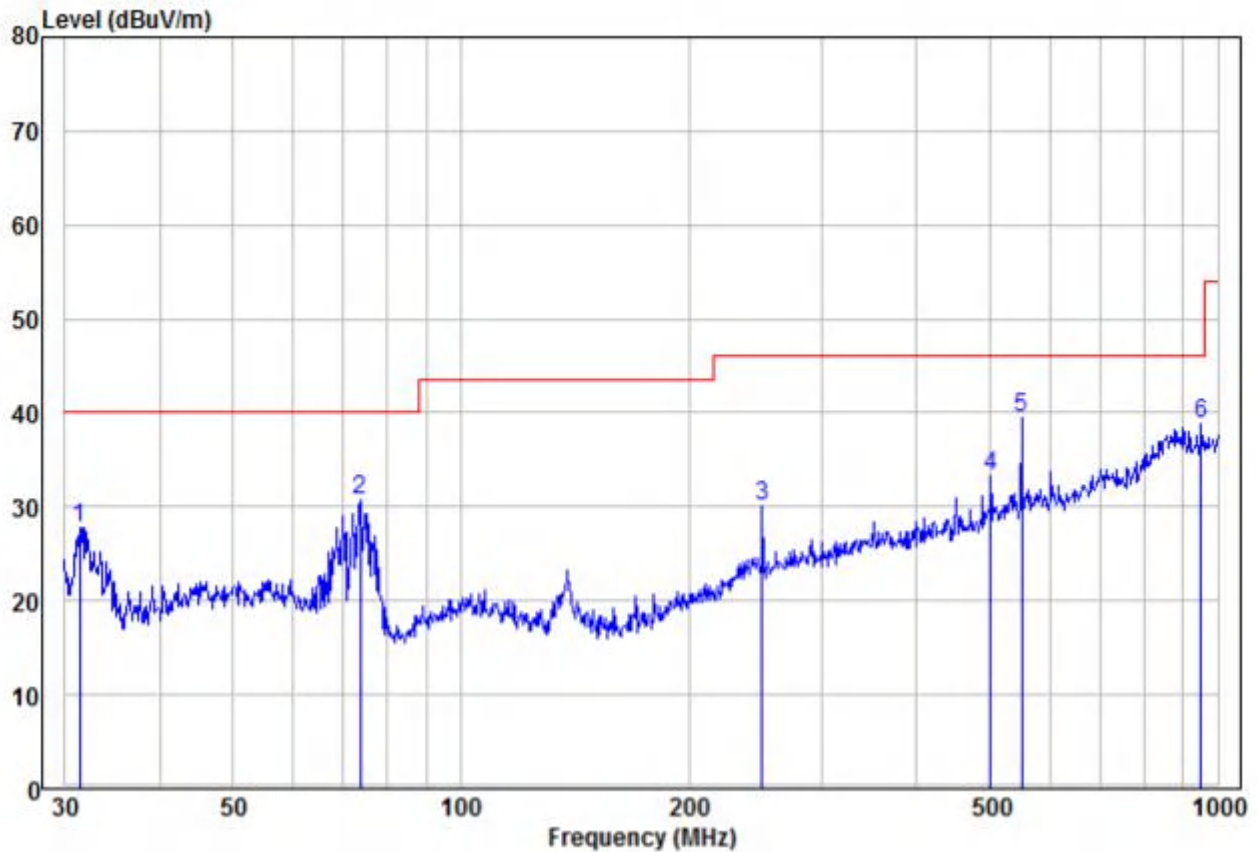


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	31.51	20.78	8.36	29.14	40.00	-10.86	Peak	VERTICAL	100	28
2	73.62	21.95	8.94	30.89	40.00	-9.11	Peak	VERTICAL	100	61
3	350.48	15.91	18.15	34.06	46.00	-11.94	Peak	VERTICAL	100	96
4	451.14	16.72	19.46	36.18	46.00	-9.82	Peak	VERTICAL	100	132
5 pp	550.95	17.94	21.63	39.57	46.00	-6.43	Peak	VERTICAL	100	164
6	872.18	10.05	28.84	38.89	46.00	-7.11	Peak	VERTICAL	100	196

Test mode:	Transmitting (802.11a 36CH)	Horizontal
------------	-----------------------------	------------

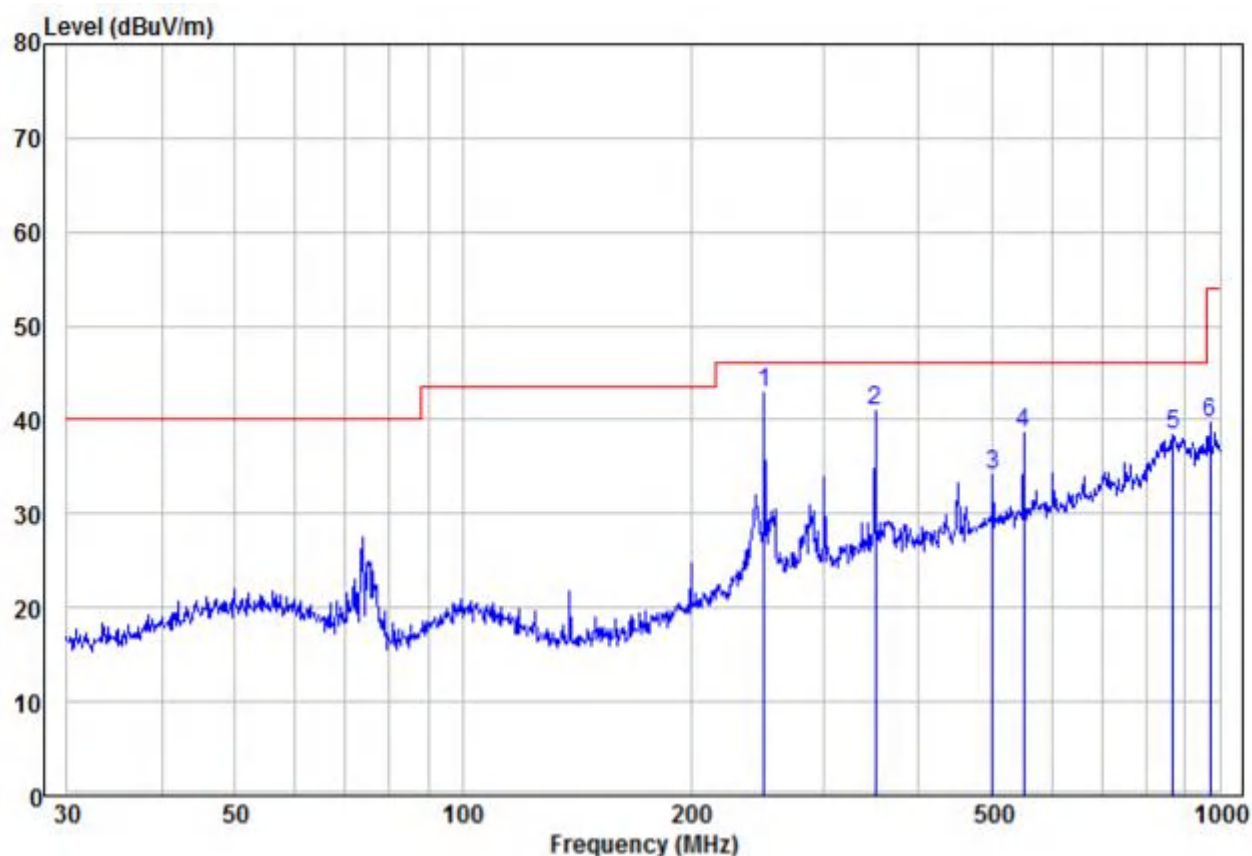


30MHz~1GHz		
Test mode:	Transmitting (802.11a 149CH)	Vertical



	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	31.40	19.49	8.34	27.83	40.00	-12.17	Peak	VERTICAL	100	210
2	73.62	21.70	8.94	30.64	40.00	-9.36	Peak	VERTICAL	100	142
3	250.30	14.37	15.73	30.10	46.00	-15.90	Peak	VERTICAL	100	256
4	501.18	12.28	20.94	33.22	46.00	-12.78	Peak	VERTICAL	100	78
5 pp	550.95	17.82	21.63	39.45	46.00	-6.55	Peak	VERTICAL	100	84
6	952.09	10.73	28.00	38.73	46.00	-7.27	Peak	VERTICAL	100	34

Test mode:	Transmitting (802.11a 149CH)	Horizontal
------------	------------------------------	------------

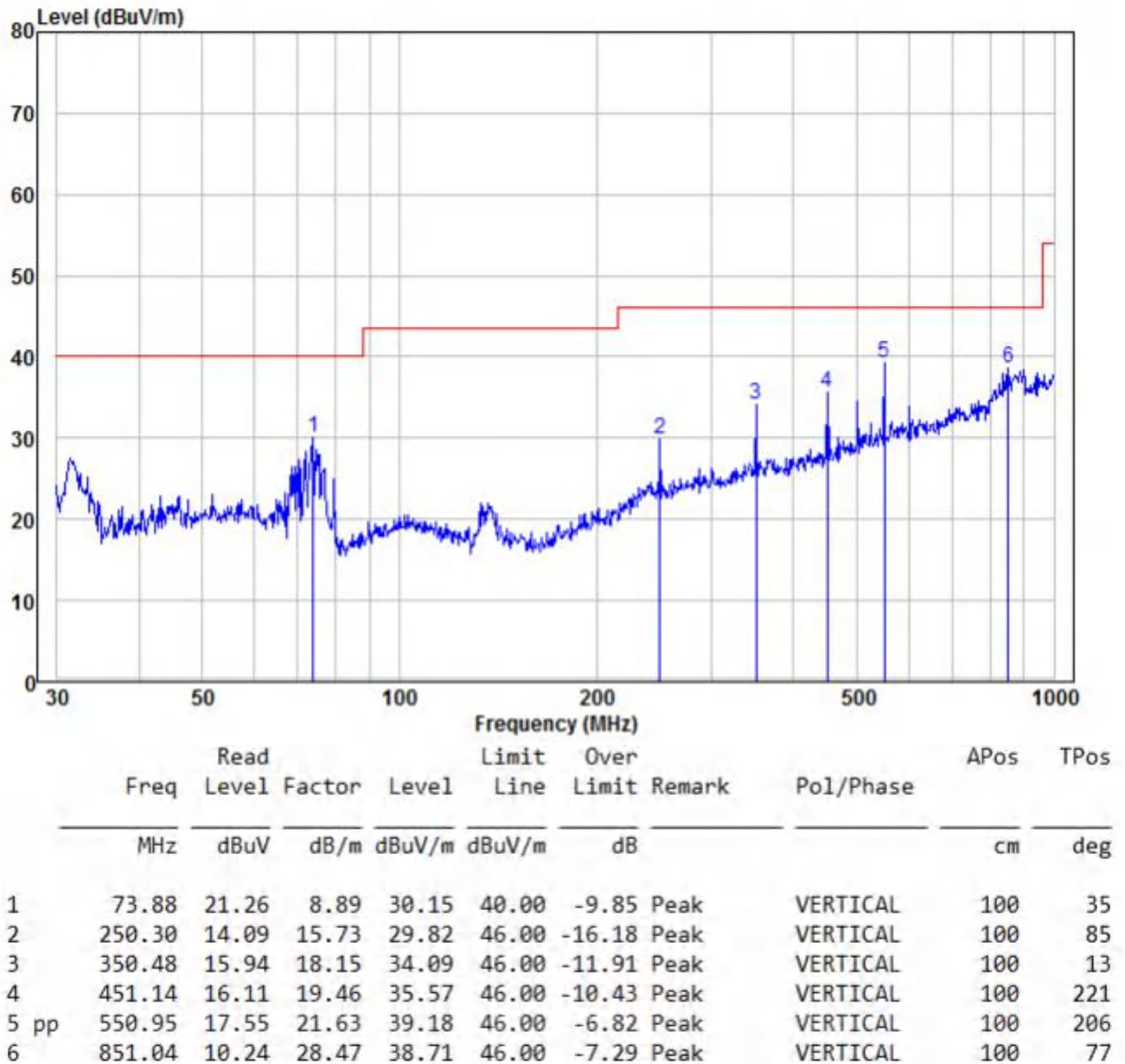


		Read		Limit	Over			APos	TPos
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm deg
1	pp	250.30	27.15	15.73	42.88	46.00	-3.12 Peak	HORIZONTAL	100 124
2		350.48	22.73	18.15	40.88	46.00	-5.12 Peak	HORIZONTAL	100 177
3		501.18	13.23	20.94	34.17	46.00	-11.83 Peak	HORIZONTAL	100 245
4		550.95	16.92	21.63	38.55	46.00	-7.45 Peak	HORIZONTAL	100 186
5		869.13	9.68	28.78	38.46	46.00	-7.54 Peak	HORIZONTAL	100 90
6		972.34	11.53	28.12	39.65	54.00	-14.35 Peak	HORIZONTAL	100 200

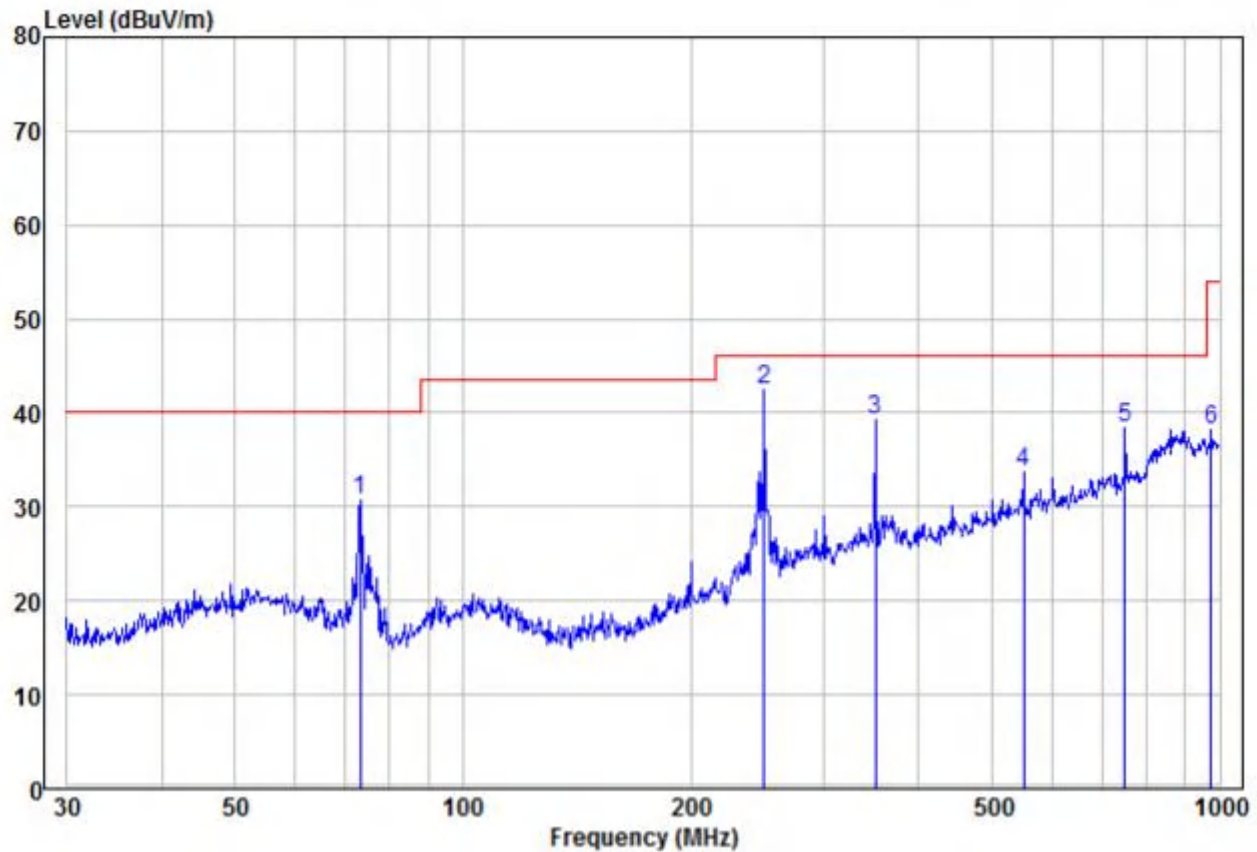
Ant 2:

Radiated Emission below 1GHz

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

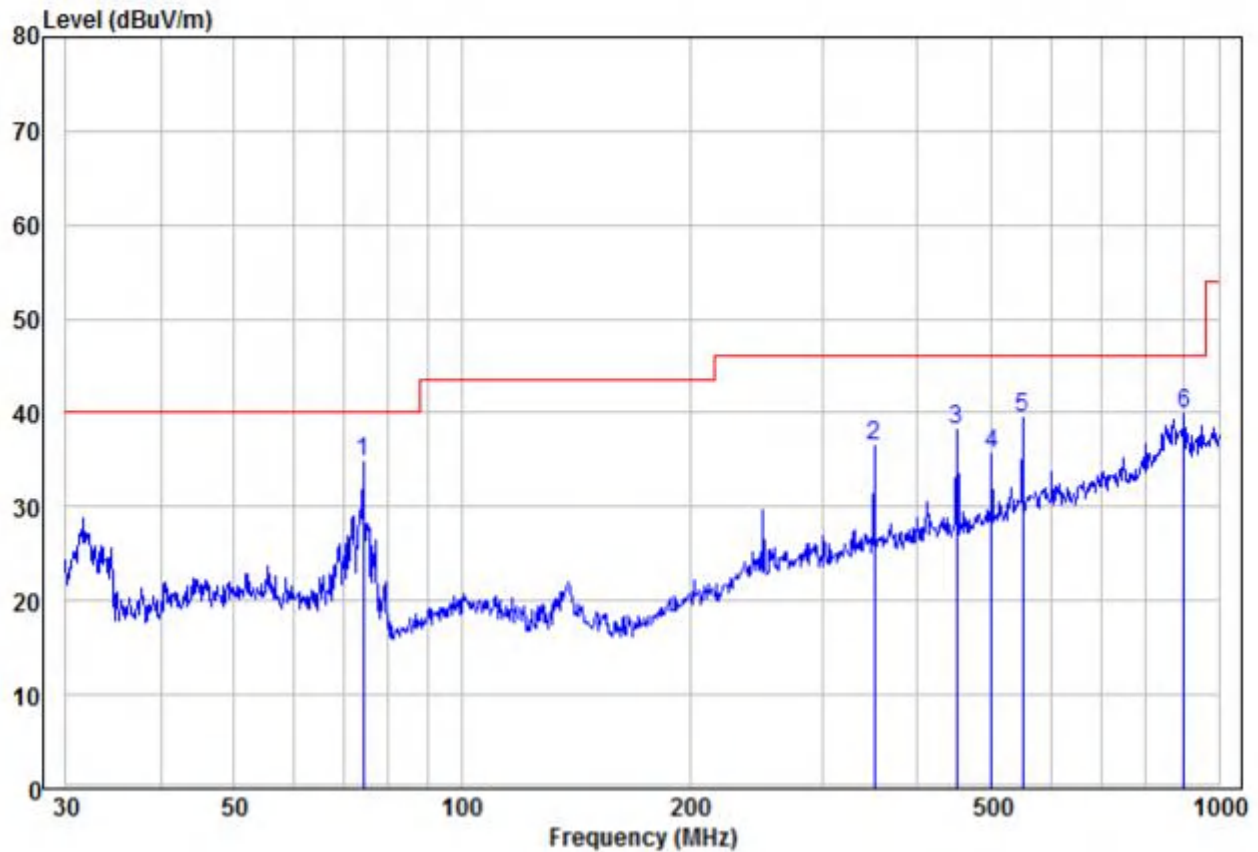


Test mode:	Transmitting (802.11a 36CH)	Horizontal
------------	-----------------------------	------------



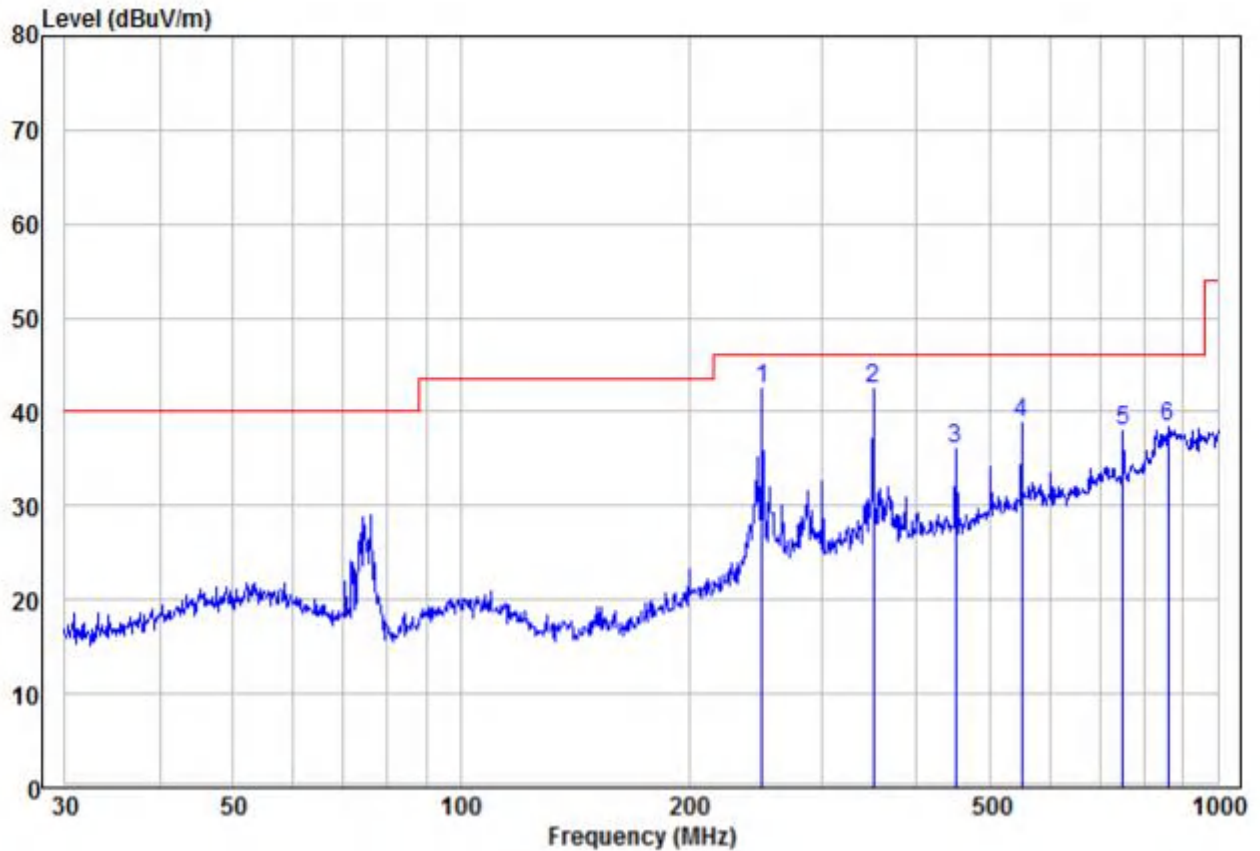
	Read			Limit	Over			APos	TPos
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	73.10	21.61	9.04	30.65	40.00	-9.35 Peak	HORIZONTAL	100	64
2	pp 250.30	26.66	15.73	42.39	46.00	-3.61 Peak	HORIZONTAL	100	2
3	350.48	21.21	18.15	39.36	46.00	-6.64 Peak	HORIZONTAL	100	200
4	550.95	12.06	21.63	33.69	46.00	-12.31 Peak	HORIZONTAL	100	251
5	750.11	13.62	24.80	38.42	46.00	-7.58 Peak	HORIZONTAL	100	173
6	975.75	10.02	28.15	38.17	54.00	-15.83 Peak	HORIZONTAL	100	241

30MHz~1GHz		
Test mode:	Transmitting (802.11a 149CH)	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 pp	74.14	25.95	8.84	34.79	40.00	-5.21	Peak	VERTICAL	100	214
2	350.48	18.31	18.15	36.46	46.00	-9.54	Peak	VERTICAL	100	145
3	451.14	18.70	19.46	38.16	46.00	-7.84	Peak	VERTICAL	100	211
4	501.18	14.66	20.94	35.60	46.00	-10.40	Peak	VERTICAL	100	259
5	550.95	17.88	21.63	39.51	46.00	-6.49	Peak	VERTICAL	100	46
6	900.15	11.19	28.79	39.98	46.00	-6.02	Peak	VERTICAL	100	222

Test mode:	Transmitting (802.11a 149CH)	Horizontal
------------	------------------------------	------------



		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	250.30	26.80	15.73	42.53	46.00	-3.47 Peak	HORIZONTAL	100 176
2		350.48	24.36	18.15	42.51	46.00	-3.49 Peak	HORIZONTAL	100 28
3		451.14	16.64	19.46	36.10	46.00	-9.90 Peak	HORIZONTAL	100 75
4		550.95	17.25	21.63	38.88	46.00	-7.12 Peak	HORIZONTAL	100 42
5		750.11	13.14	24.80	37.94	46.00	-8.06 Peak	HORIZONTAL	100 152
6		860.04	9.67	28.63	38.30	46.00	-7.70 Peak	HORIZONTAL	100 116

Transmitter Emission above 1GHz

Ant 1:

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	52.99	2.26	55.25	74	-18.75	peak	H	1.5	132
10360	37.79	2.26	40.05	54	-13.95	AVG	H	1.5	98
15540	50.65	3.75	54.40	74	-19.60	peak	H	1.5	11
15540	38.71	3.75	42.46	54	-11.54	AVG	H	1.5	345
10360	54.97	2.26	57.23	74	-16.77	peak	V	1.5	202
10360	39.33	2.26	41.59	54	-12.41	AVG	V	1.5	4
15540	51.54	3.75	55.29	74	-18.71	peak	V	1.5	192
15540	35.07	3.75	38.82	54	-15.18	AVG	V	1.5	245

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	52.58	2.31	54.89	74	-19.11	peak	H	1.5	170
10480	37.52	2.31	39.83	54	-14.17	AVG	H	1.5	197
15720	49.92	3.79	53.71	74	-20.29	peak	H	1.5	231
15720	36.92	3.79	40.71	54	-13.29	AVG	H	1.5	310
10480	53.66	2.31	55.97	74	-18.03	peak	V	1.5	348
10480	37.56	2.31	39.87	54	-14.13	AVG	V	1.5	30
15720	49.14	3.79	52.93	74	-21.07	peak	V	1.5	273
15720	35.36	3.79	39.15	54	-14.85	AVG	V	1.5	284

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	51.75	2.54	54.29	74	-19.71	peak	H	1.5	148
11490	38.66	2.54	41.20	54	-12.80	AVG	H	1.5	96
17235	50.93	3.94	54.87	74	-19.13	peak	H	1.5	147
17235	36.52	3.94	40.46	54	-13.54	AVG	H	1.5	164
11490	53.96	2.54	56.50	74	-17.50	peak	V	1.5	254
11490	37.92	2.54	40.46	54	-13.54	AVG	V	1.5	267
17235	51.07	3.94	55.01	74	-18.99	peak	V	1.5	19
17235	36.08	3.94	40.02	54	-13.98	AVG	V	1.5	358

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	52.24	2.58	54.82	74	-19.18	peak	H	1.5	360
11650	37.75	2.58	40.33	54	-13.67	AVG	H	1.5	16
17475	49.82	4.02	53.84	74	-20.16	peak	H	1.5	261
17475	36.56	4.02	40.58	54	-13.42	AVG	H	1.5	185
11650	53.55	2.58	56.13	74	-17.87	peak	V	1.5	124
11650	37.33	2.58	39.91	54	-14.09	AVG	V	1.5	195
17475	49.89	4.02	53.91	74	-20.09	peak	V	1.5	81
17475	36.36	4.02	40.38	54	-13.62	AVG	V	1.5	195

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.

Ant 1:

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	53.16	2.26	55.42	74	-18.58	peak	H	1.5	125
10360	36.99	2.26	39.25	54	-14.75	AVG	H	1.5	108
15540	50.33	3.75	54.08	74	-19.92	peak	H	1.5	338
15540	38.51	3.75	42.26	54	-11.74	AVG	H	1.5	223
10360	55.54	2.26	57.80	74	-16.20	peak	V	1.5	167
10360	38.95	2.26	41.21	54	-12.79	AVG	V	1.5	286
15540	50.56	3.75	54.31	74	-19.69	peak	V	1.5	168
15540	36.58	3.75	40.33	54	-13.67	AVG	V	1.5	250

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	51.93	2.31	54.24	74	-19.76	peak	H	1.5	208
10480	37.19	2.31	39.50	54	-14.50	AVG	H	1.5	149
15720	48.84	3.79	52.63	74	-21.37	peak	H	1.5	140
15720	35.96	3.79	39.75	54	-14.25	AVG	H	1.5	345
10480	52.79	2.31	55.10	74	-18.90	peak	V	1.5	324
10480	36.21	2.31	38.52	54	-15.48	AVG	V	1.5	18
15720	49.42	3.79	53.21	74	-20.79	peak	V	1.5	175
15720	36.12	3.79	39.91	54	-14.09	AVG	V	1.5	145

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	51.77	2.54	54.31	74	-19.69	peak	H	1.5	71
11490	38.23	2.54	40.77	54	-13.23	AVG	H	1.5	308
17235	50.15	3.94	54.09	74	-19.91	peak	H	1.5	343
17235	36.28	3.94	40.22	54	-13.78	AVG	H	1.5	353
11490	53.97	2.54	56.51	74	-17.49	peak	V	1.5	55
11490	37.64	2.54	40.18	54	-13.82	AVG	V	1.5	51
17235	50.45	3.94	54.39	74	-19.61	peak	V	1.5	333
17235	37.50	3.94	41.44	54	-12.56	AVG	V	1.5	246

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	53.73	2.26	55.99	74	-18.01	peak	H	1.5	150
11650	37.12	2.26	39.38	54	-14.62	AVG	H	1.5	165
17475	51.80	3.75	55.55	74	-18.45	peak	H	1.5	353
17475	38.15	3.75	41.90	54	-12.10	AVG	H	1.5	167
11650	54.89	2.26	57.15	74	-16.85	peak	V	1.5	343
11650	39.47	2.26	41.73	54	-12.27	AVG	V	1.5	278
17475	50.40	3.75	54.15	74	-19.85	peak	V	1.5	8
17475	36.62	3.75	40.37	54	-13.63	AVG	V	1.5	106

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.

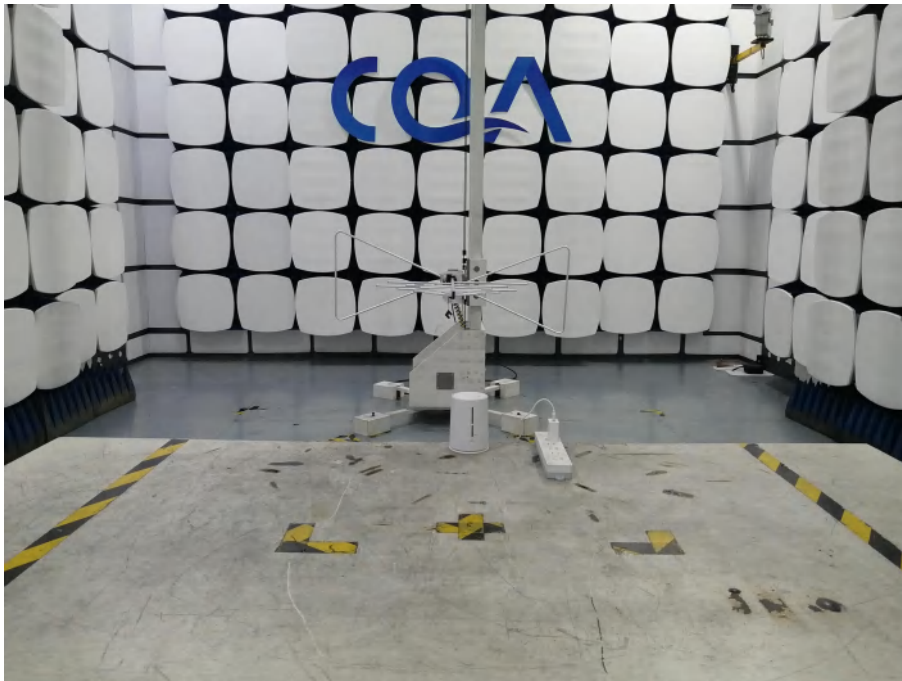
8 Photographs - EUT Test Setup

8.1 Radiated Spurious Emission

9kHz~30MHz:



30MHz~1GHz:



Above 1GHz:

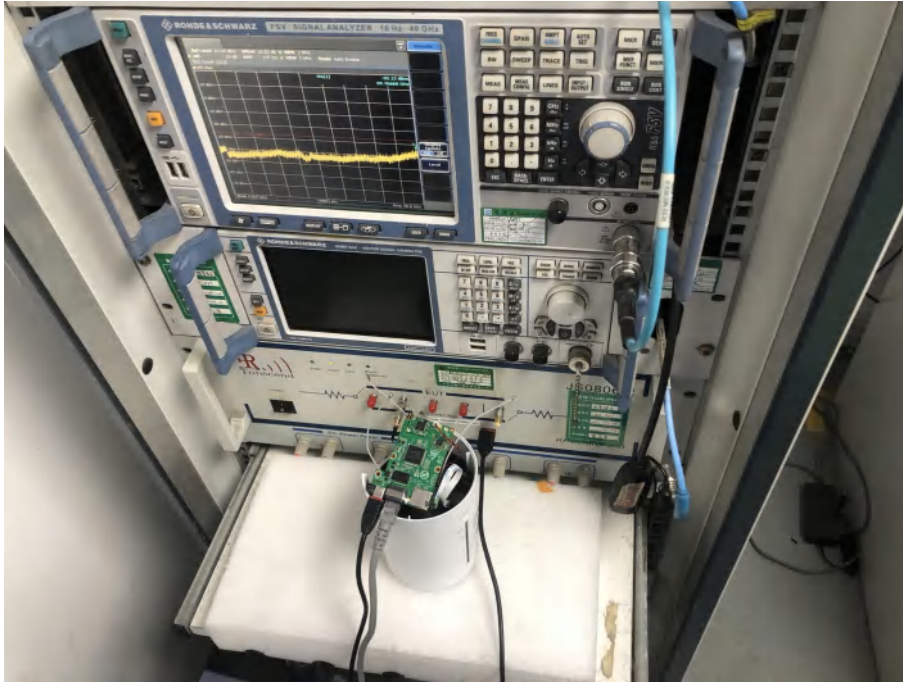


8.2 Conducted Emission

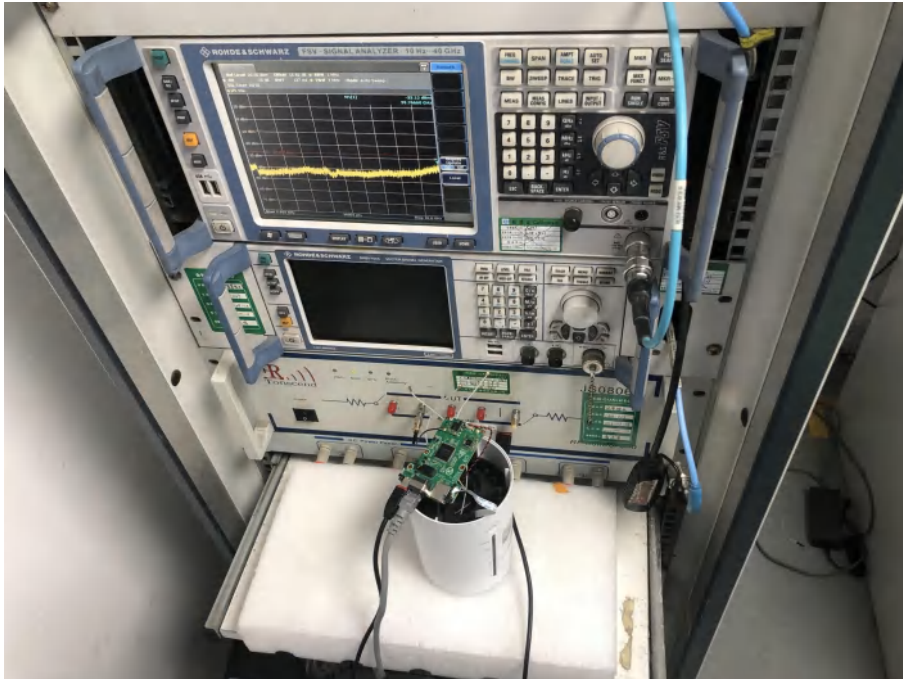


8.3 RF Conducted measurement

Ant 1:



Ant 2:



9 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20250501057E-01.

*** END OF REPORT ***