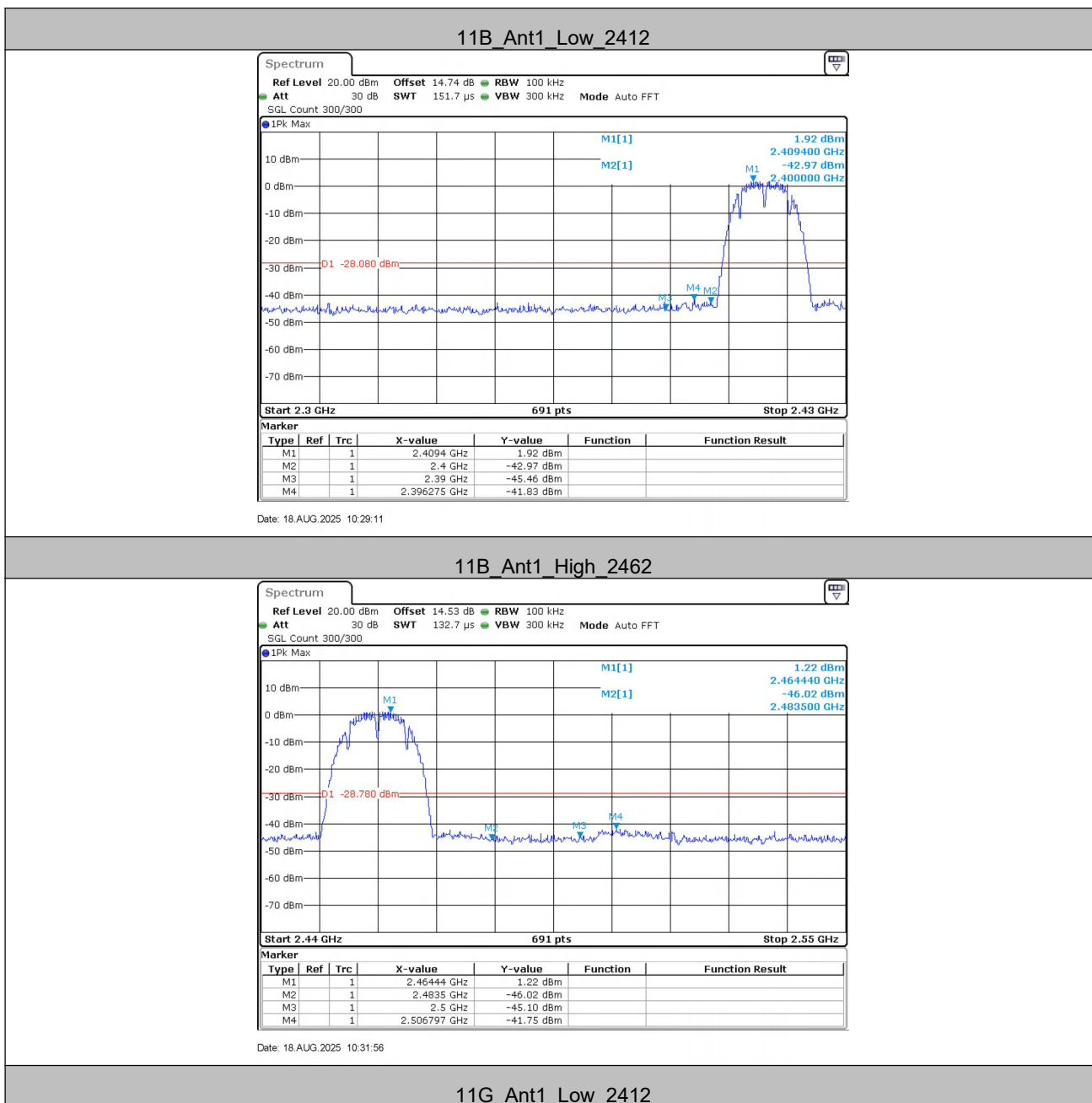
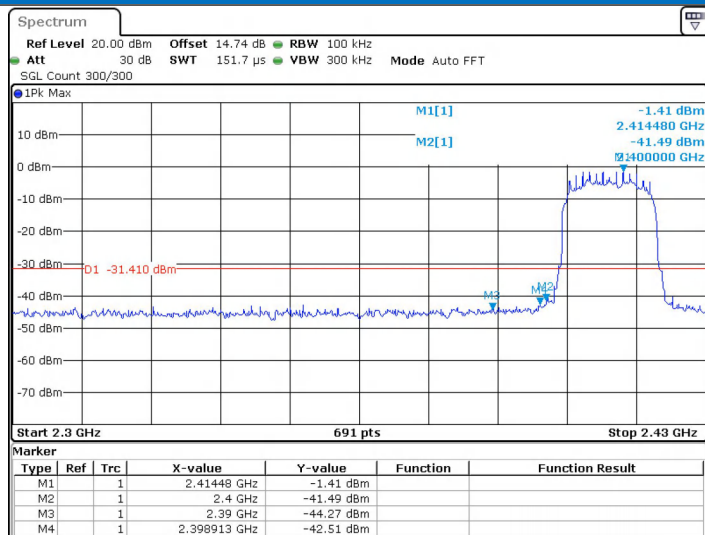


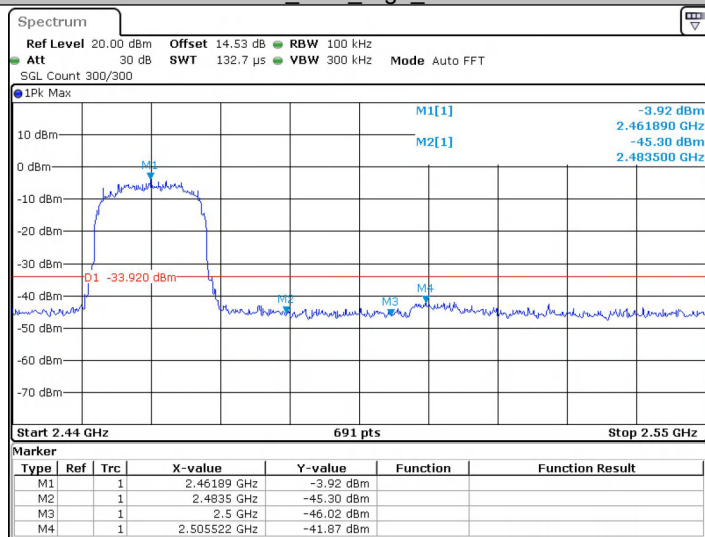
5.7.1 Test Graphs





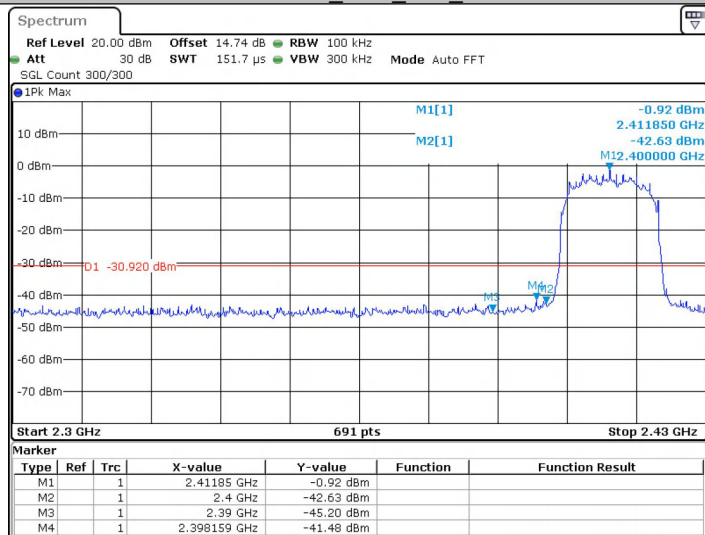
Date: 18.AUG.2025 10:34:37

11G_Ant1_High_2462



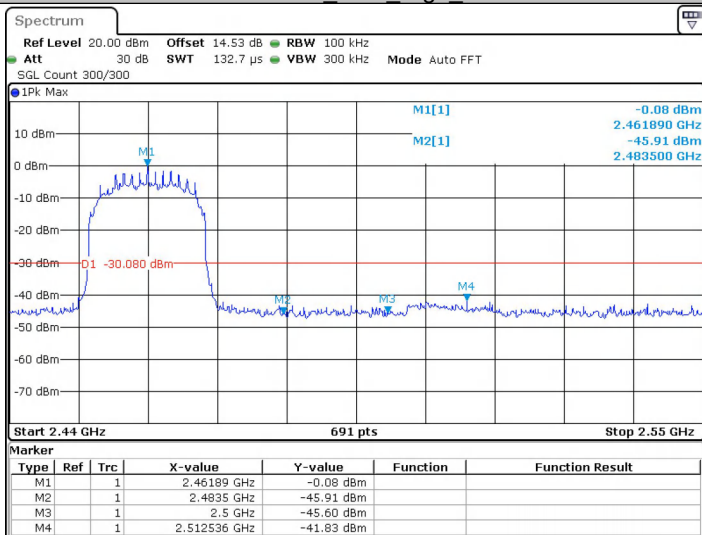
Date: 18.AUG.2025 10:38:13

11N20SISO_Ant1_Low_2412



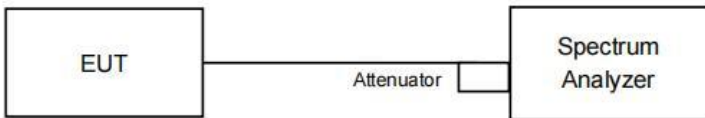
Date: 18.AUG.2025 10:39:47

11N20SISO_Ant1_High_2462



Date: 18.AUG.2025 10:45:19

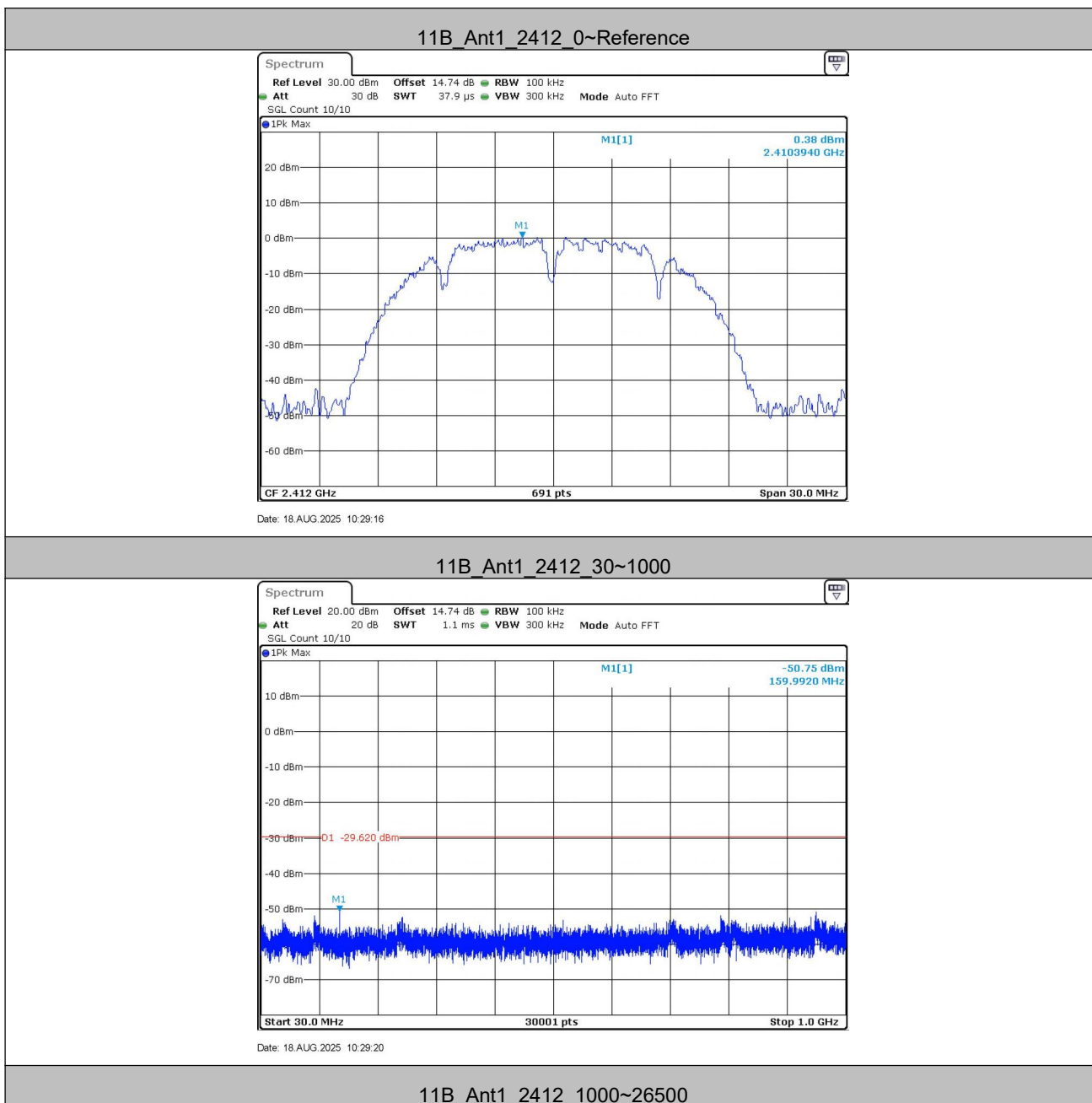
5.8 RF Conducted Spurious Emissions

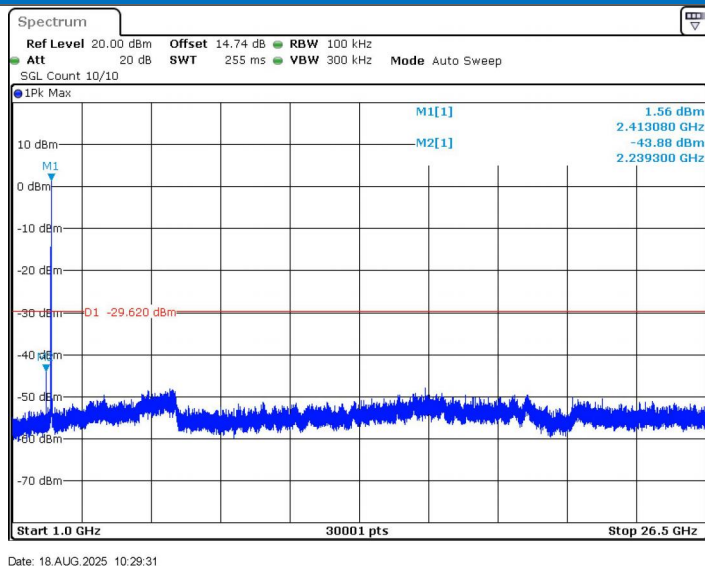
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

Test Result

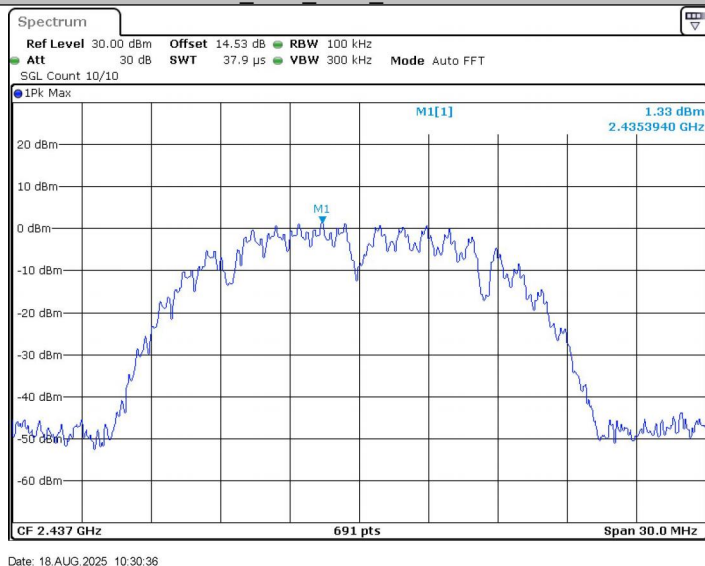
TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	0.38	0.38	---	PASS
		30~1000	0.38	-50.75	≤ -29.62	PASS
		1000~26500	0.38	-43.88	≤ -29.62	PASS
	2437	Reference	1.33	1.33	---	PASS
		30~1000	1.33	-50.02	≤ -28.67	PASS
		1000~26500	1.33	-44.68	≤ -28.67	PASS
	2462	Reference	0.17	0.17	---	PASS
		30~1000	0.17	-49.85	≤ -29.83	PASS
		1000~26500	0.17	-43.77	≤ -29.83	PASS
11G	2412	Reference	-4.44	-4.44	---	PASS
		30~1000	-4.44	-50.44	≤ -34.44	PASS
		1000~26500	-4.44	-44.33	≤ -34.44	PASS
	2437	Reference	-4.92	-4.92	---	PASS
		30~1000	-4.92	-51.83	≤ -34.92	PASS
		1000~26500	-4.92	-45.84	≤ -34.92	PASS
	2462	Reference	-2.36	-2.36	---	PASS
		30~1000	-2.36	-50.44	≤ -32.36	PASS
		1000~26500	-2.36	-46.2	≤ -32.36	PASS
11N20SISO	2412	Reference	-2.78	-2.78	---	PASS
		30~1000	-2.78	-50.99	≤ -32.78	PASS
		1000~26500	-2.78	-43.72	≤ -32.78	PASS
	2437	Reference	-4.42	-4.42	---	PASS
		30~1000	-4.42	-50.9	≤ -34.42	PASS
		1000~26500	-4.42	-45.43	≤ -34.42	PASS
	2462	Reference	-1.99	-1.99	---	PASS
		30~1000	-1.99	-50.38	≤ -31.99	PASS
		1000~26500	-1.99	-44.93	≤ -31.99	PASS

Test Graphs

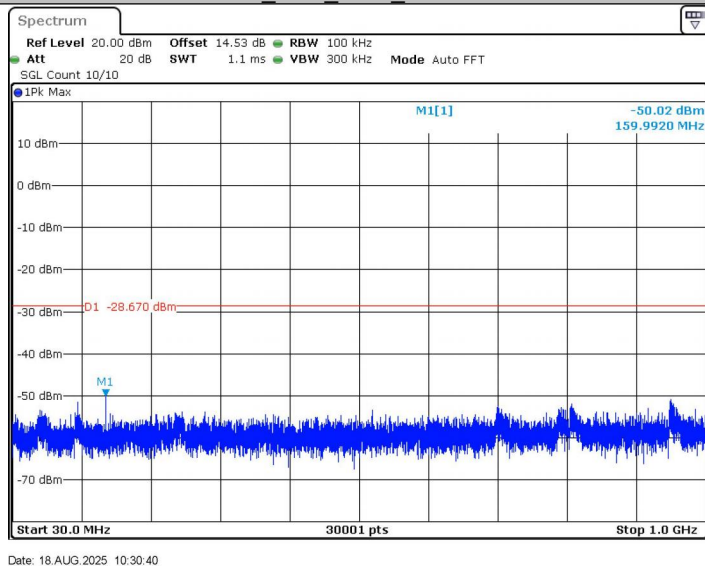




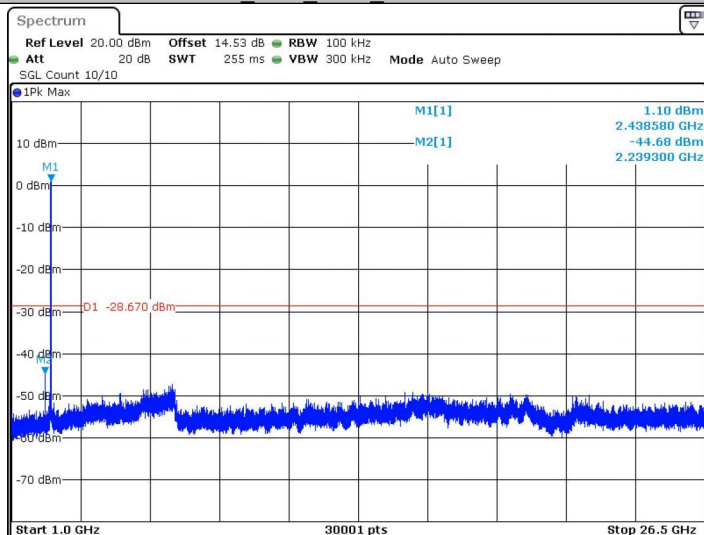
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

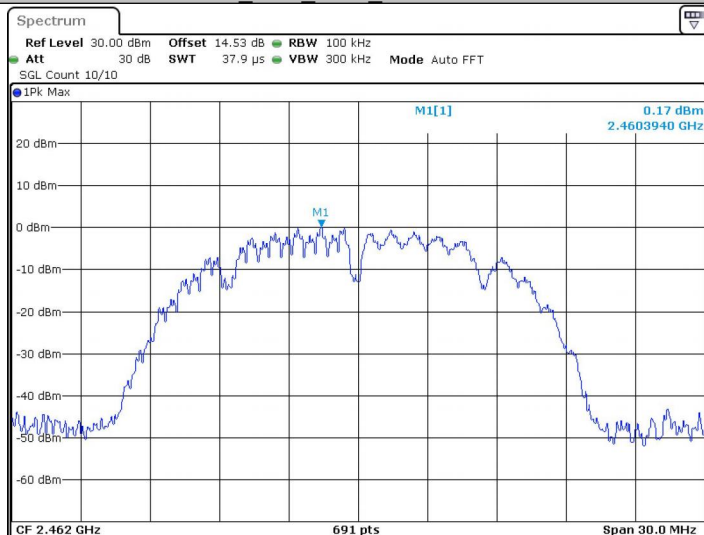


11B_Ant1_2437_1000~26500



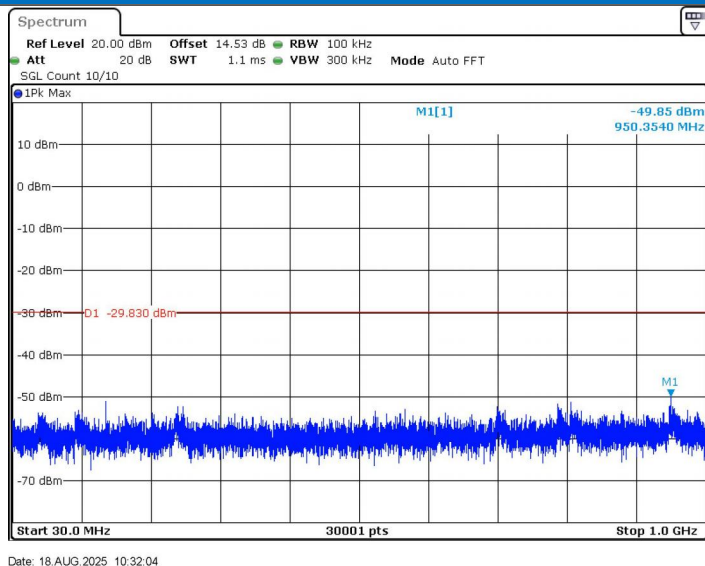
Date: 18.AUG.2025 10:30:51

11B_Ant1_2462_0~Reference

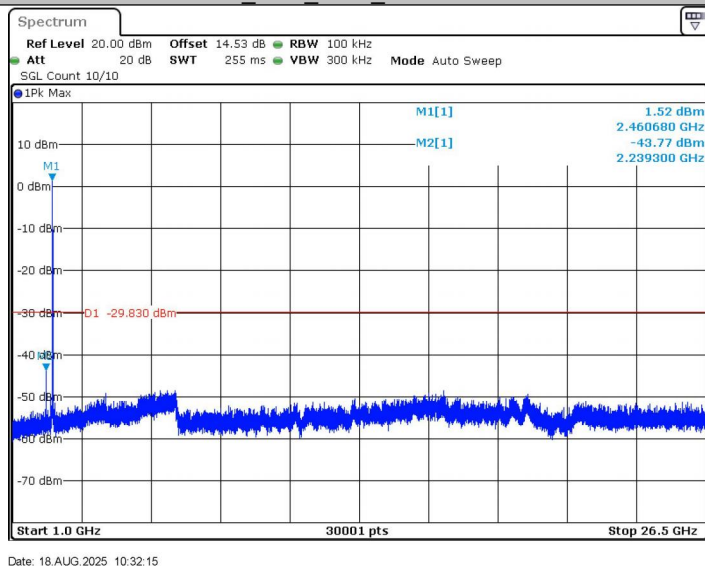


Date: 18.AUG.2025 10:32:00

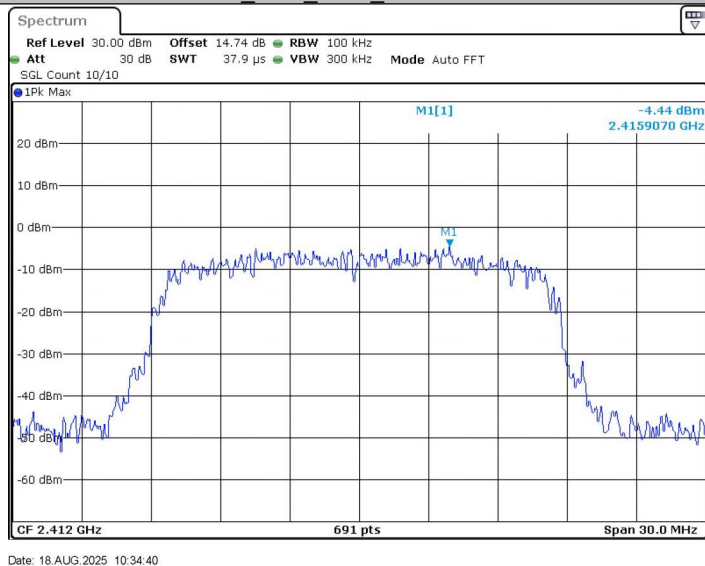
11B_Ant1_2462_30~1000



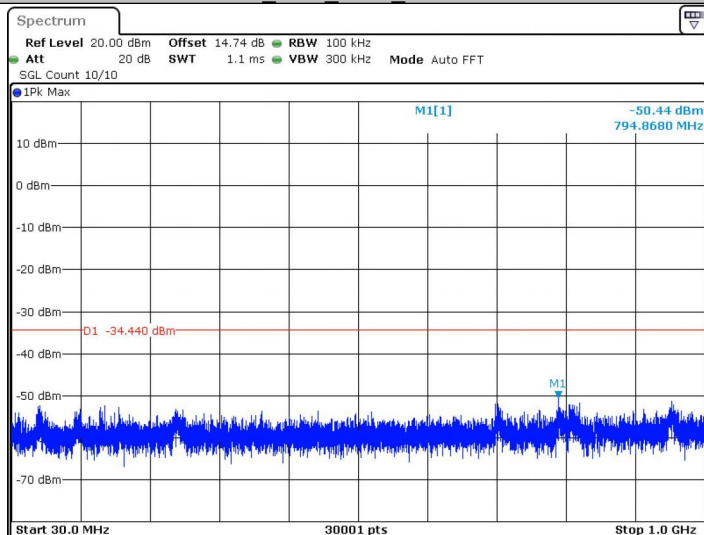
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

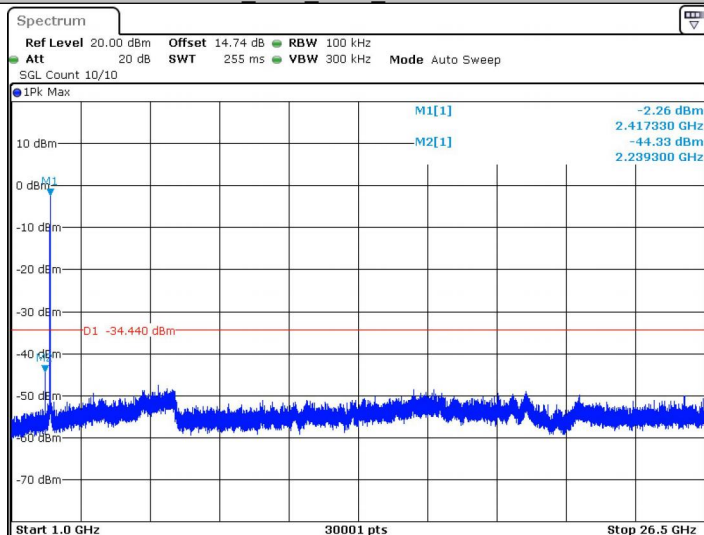


11G_Ant1_2412_30~1000



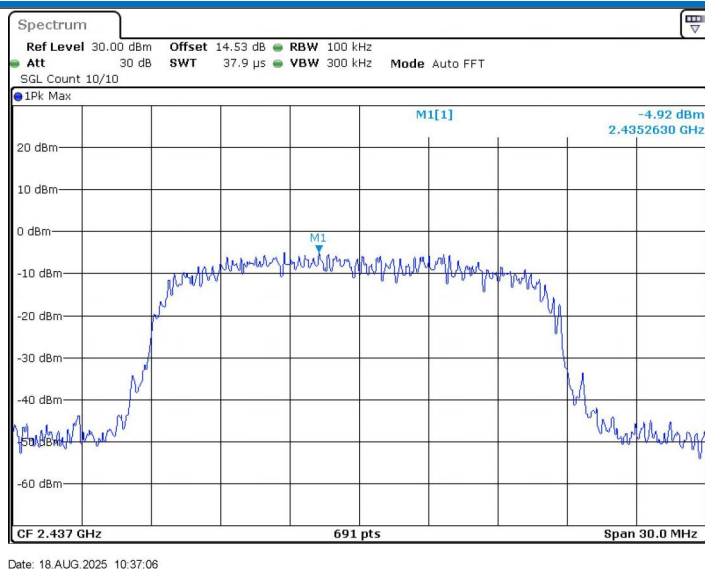
Date: 18.AUG.2025 10:34:45

11G_Ant1_2412_1000~26500

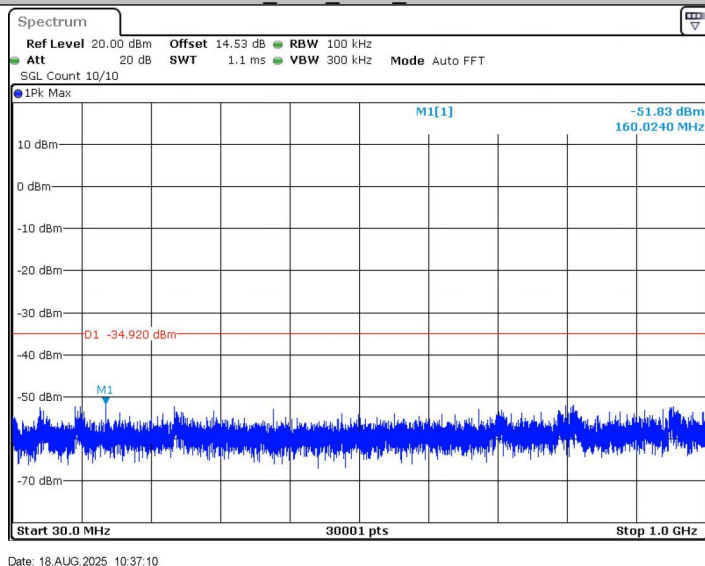


Date: 18.AUG.2025 10:34:56

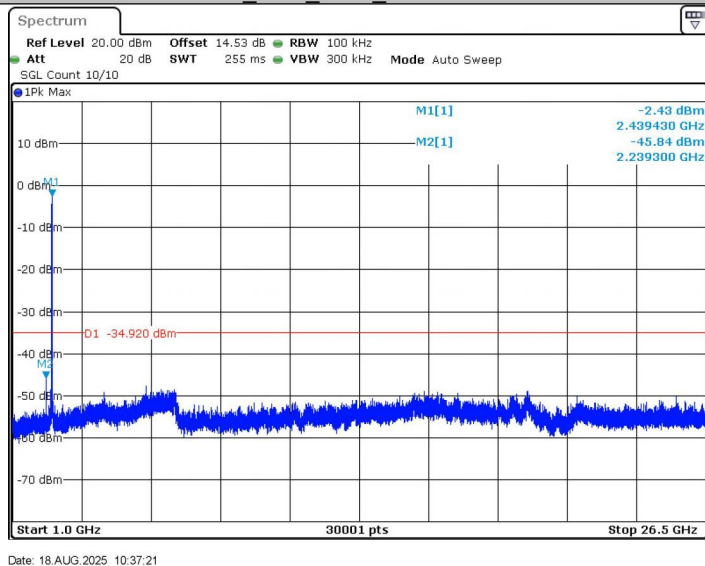
11G_Ant1_2437_0~Reference



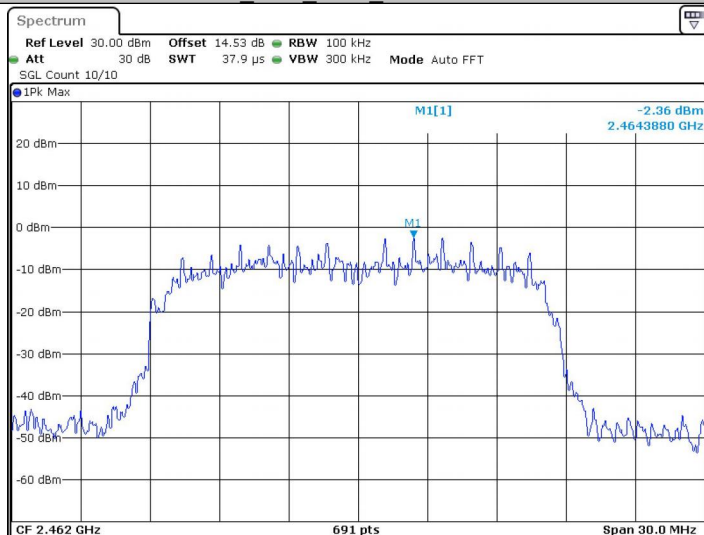
11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

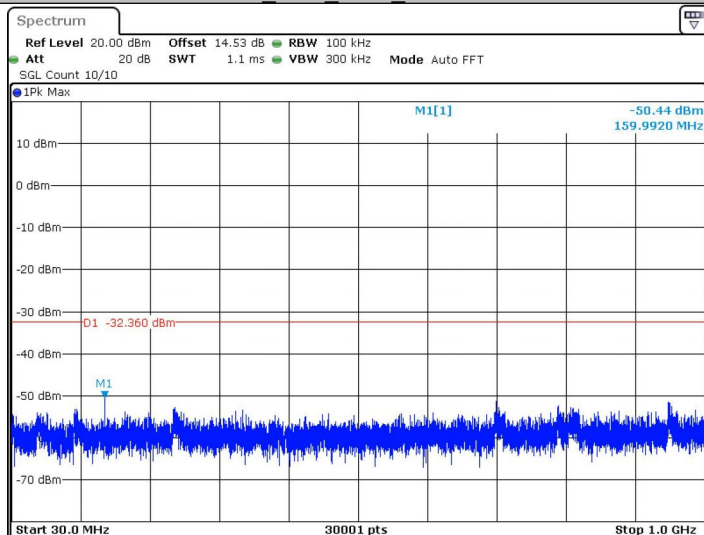


11G_Ant1_2462_0~Reference



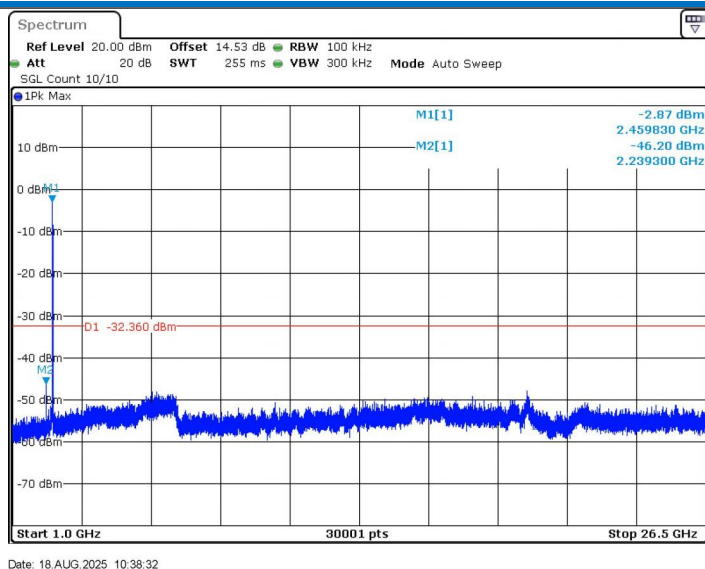
Date: 18.AUG.2025 10:38:17

11G_Ant1_2462_30~1000

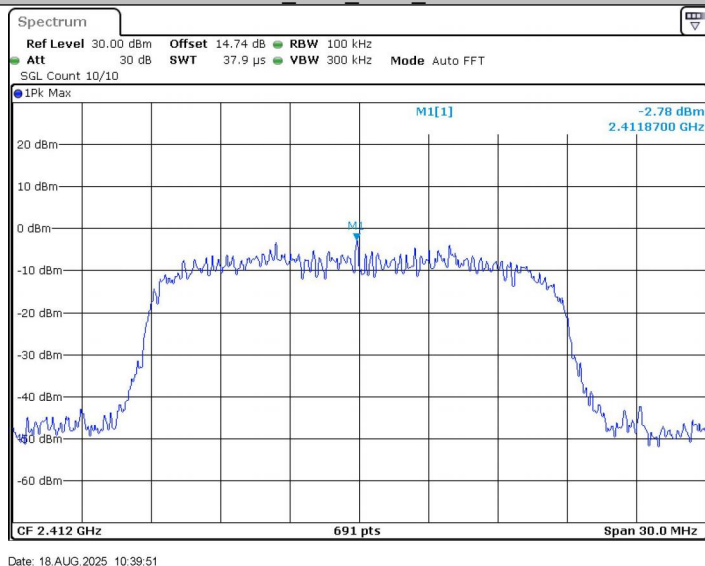


Date: 18.AUG.2025 10:38:21

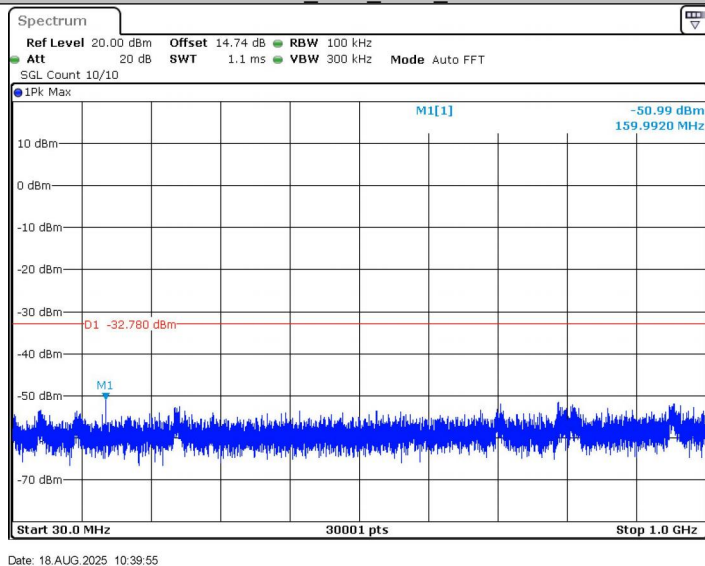
11G_Ant1_2462_1000~26500



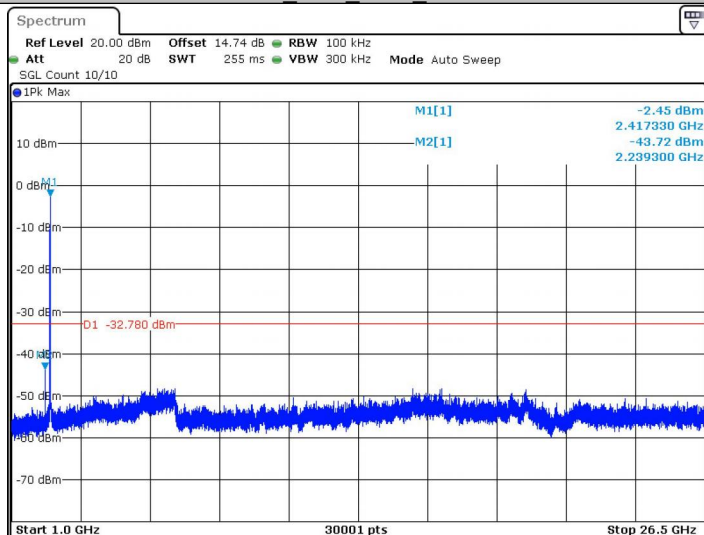
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

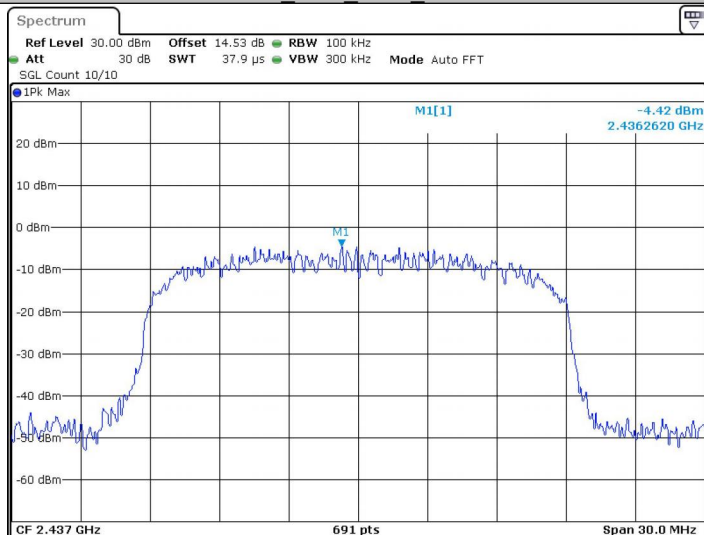


11N20SISO_Ant1_2412_1000~26500



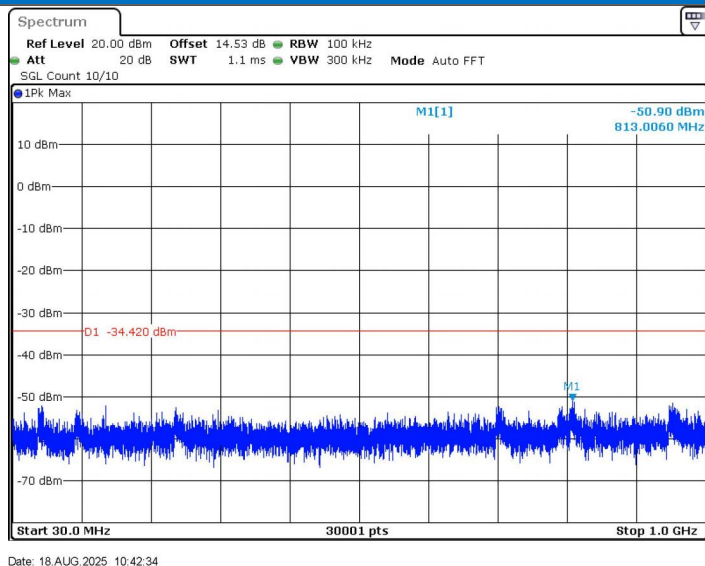
Date: 18.AUG.2025 10:40:06

11N20SISO_Ant1_2437_0~Reference

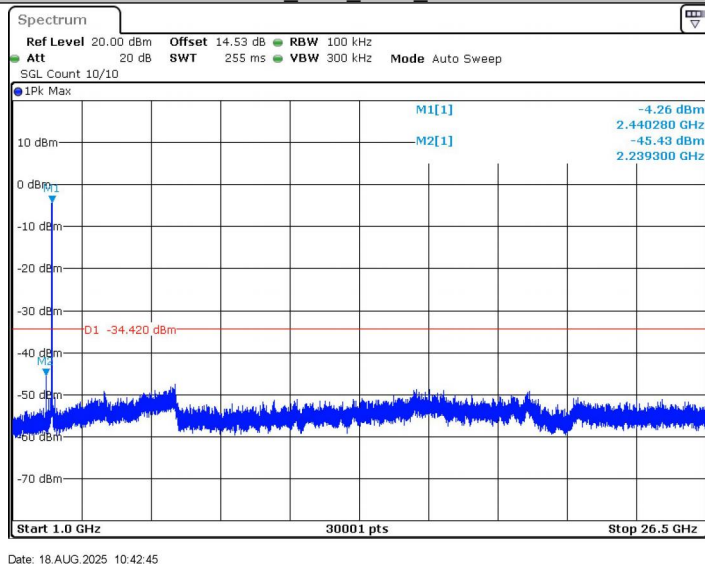


Date: 18.AUG.2025 10:42:30

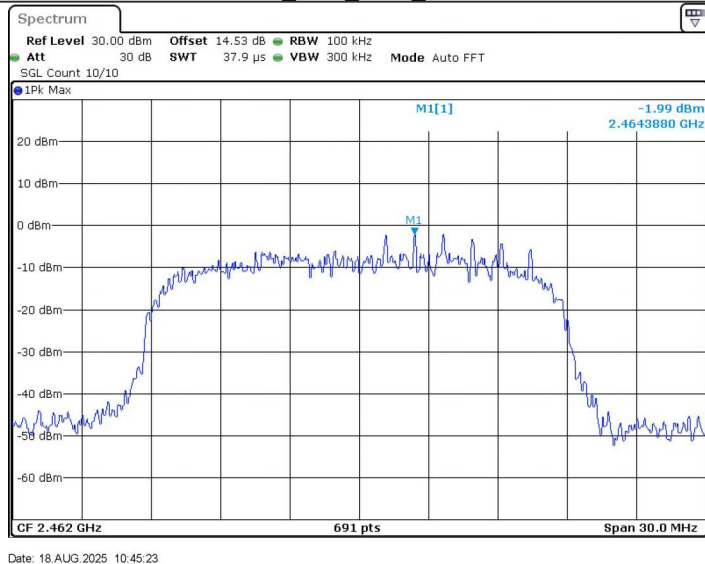
11N20SISO_Ant1_2437_30~1000

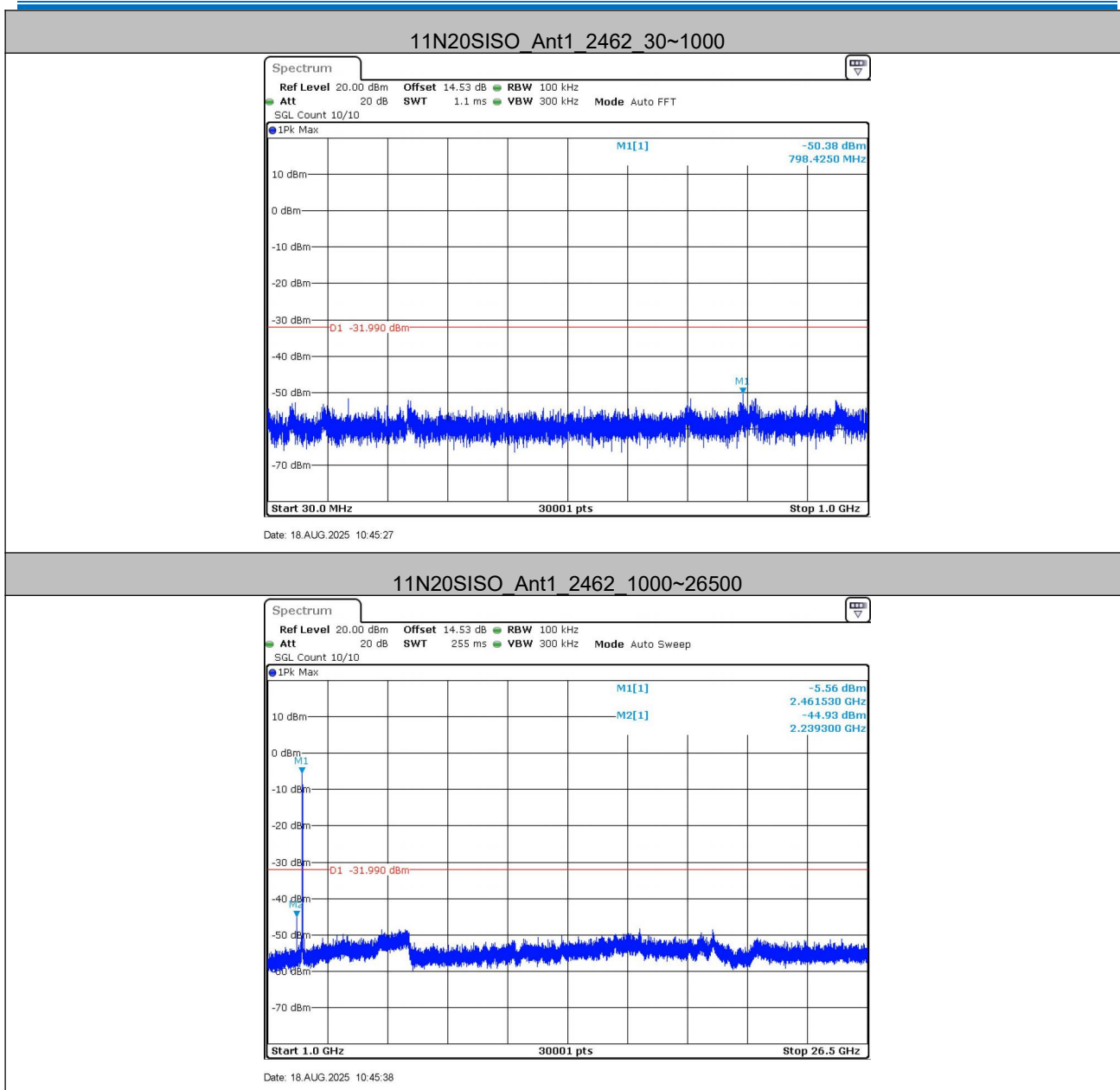


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference





Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

5.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
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	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

Test Setup:

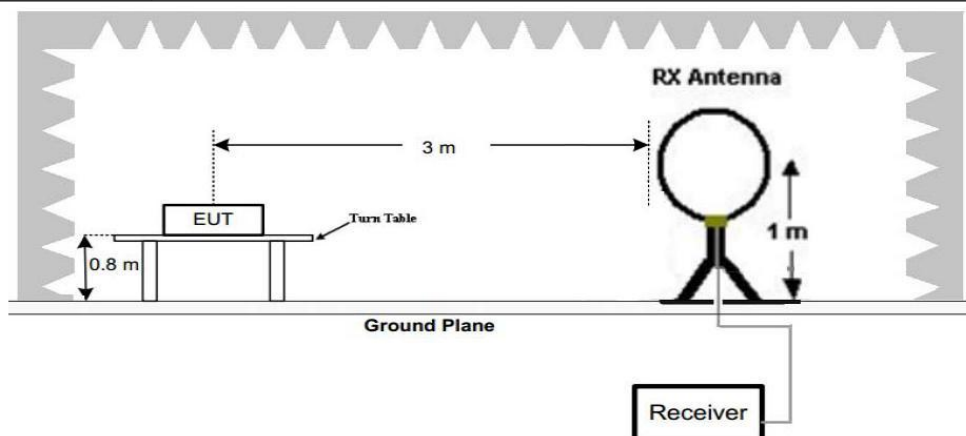


Figure 1. Below 30MHz

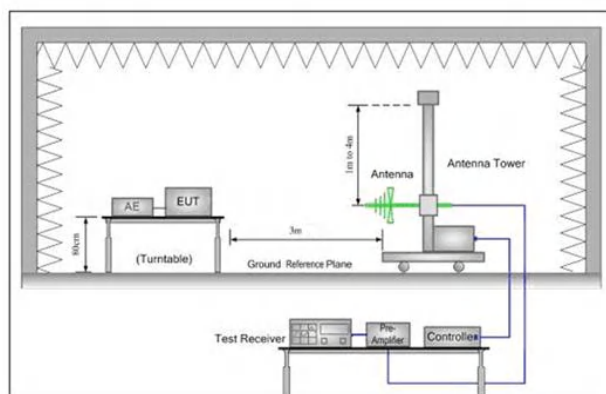


Figure 2. 30MHz to 1GHz

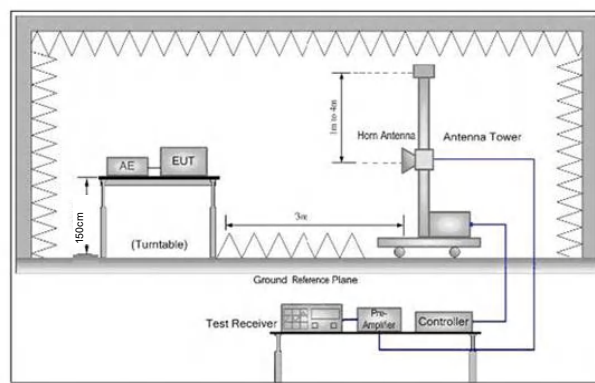


Figure 3. Above 1 GHz

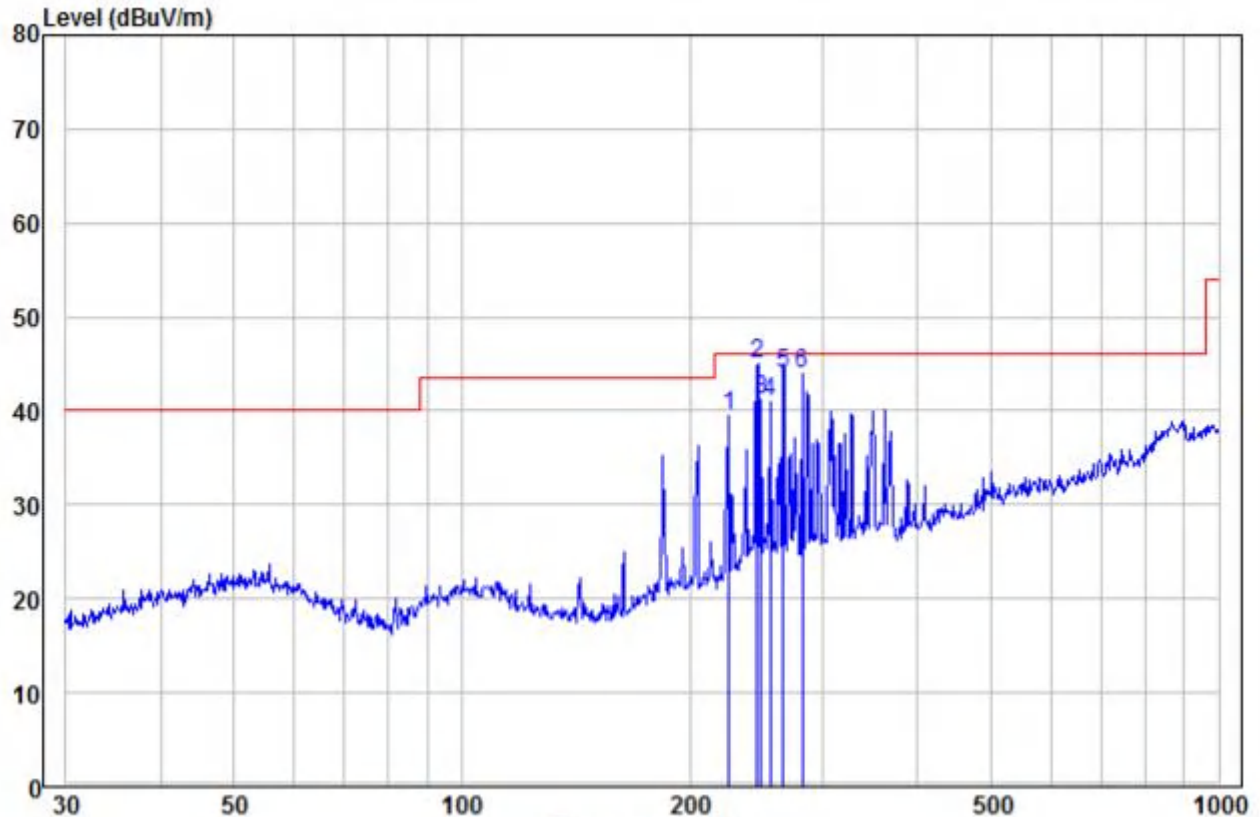
Test Procedure:

- a. 1) Below 1G: 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.
2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.
Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 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.

	<p>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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. 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 .</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

5.9.1 Radiated emission below 1GHz

30MHz~1GHz
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	225.31	25.28	14.23	39.51	46.00	-6.49	Peak	HORIZONTAL	100	42
2	245.95	28.70	16.26	44.96	46.00	-1.04	QP	HORIZONTAL	100	102
3	248.55	24.94	16.33	41.27	46.00	-4.73	Peak	HORIZONTAL	100	84
4	255.62	24.39	16.53	40.92	46.00	-5.08	Peak	HORIZONTAL	100	156
5	265.68	27.23	16.81	44.04	46.00	-1.96	QP	HORIZONTAL	100	255
6	281.99	26.67	17.27	43.94	46.00	-2.06	QP	HORIZONTAL	100	203

Remark:

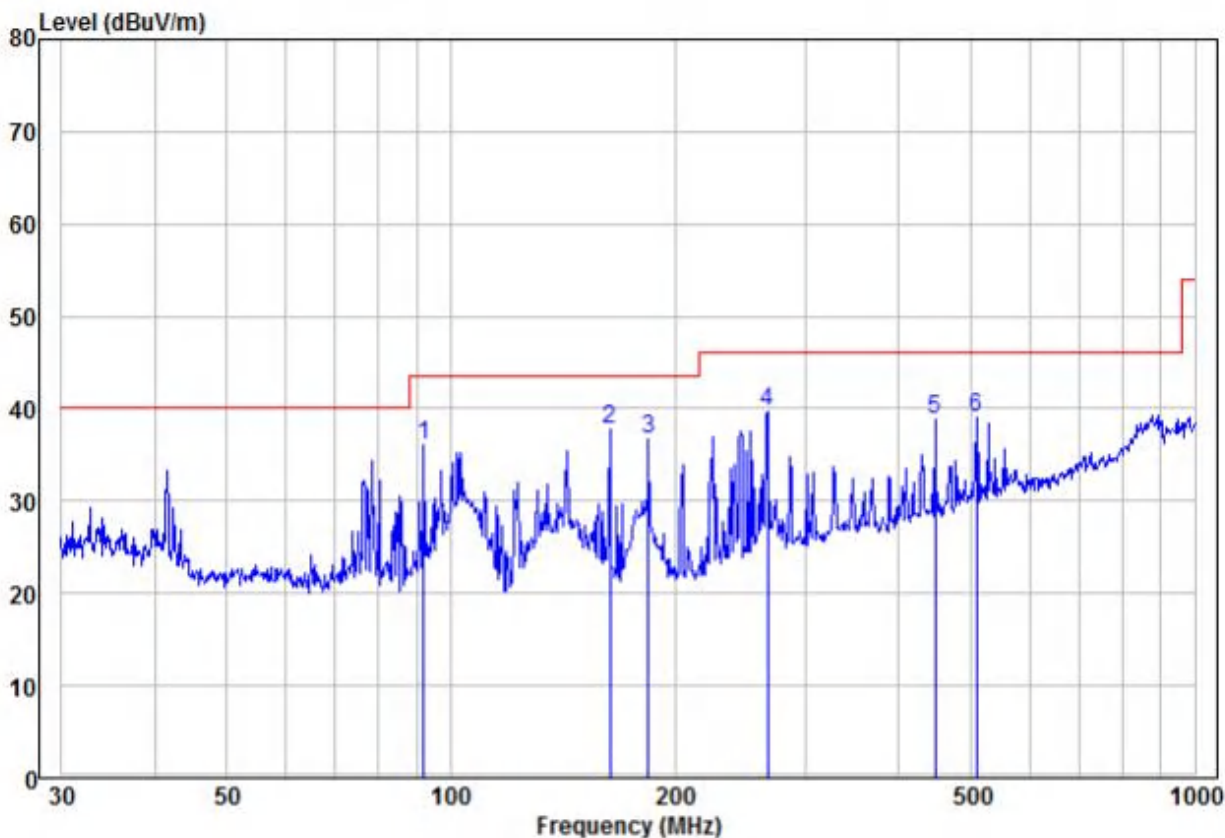
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Horizontal



	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	92.14	24.23	11.74	35.97	43.50	-7.53	Peak	VERTICAL	100	125
2	163.76	27.32	10.43	37.75	43.50	-5.75	Peak	VERTICAL	100	121
3	184.49	24.61	11.99	36.60	43.50	-6.90	Peak	VERTICAL	100	126
4	266.61	22.81	16.84	39.65	46.00	-6.35	Peak	VERTICAL	100	236
5	447.98	18.52	20.23	38.75	46.00	-7.25	Peak	VERTICAL	100	84
6	508.26	17.08	21.91	38.99	46.00	-7.01	Peak	VERTICAL	100	96

Remark:

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

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

5.9.2 Transmitter emission above 1GHz

Test mode:		802.11b(1Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4824.000	54.04	-4.26	49.78	74	-24.22	peak	H	1.5	235
4824.000	36.53	-4.26	32.27	54	-21.73	AVG	H	1.5	140
7236.000	50.94	1.18	52.12	74	-21.88	peak	H	1.5	18
7236.000	38.92	1.18	40.10	54	-13.90	AVG	H	1.5	301
4824.000	55.44	-4.26	51.18	74	-22.82	peak	V	1.5	46
4824.000	39.65	-4.26	35.39	54	-18.61	AVG	V	1.5	348
7236.000	52.10	1.18	53.28	74	-20.72	peak	V	1.5	352
7236.000	35.52	1.18	36.70	54	-17.30	AVG	V	1.5	59

Test mode:		802.11b(1Mbps)		Test channel:		Middle			
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)
4874.000	51.26	-4.12	47.14	74	-26.86	peak	H	1.5	61
4874.000	36.51	-4.12	32.39	54	-21.61	AVG	H	1.5	39
7311.000	48.62	1.46	50.08	74	-23.92	peak	H	1.5	197
7311.000	35.27	1.46	36.73	54	-17.27	AVG	H	1.5	195
4874.000	53.46	-4.12	49.34	74	-24.66	peak	V	1.5	296
4874.000	36.42	-4.12	32.30	54	-21.70	AVG	V	1.5	79
7311.000	49.97	1.46	51.43	74	-22.57	peak	V	1.5	72
7311.000	36.18	1.46	37.64	54	-16.36	AVG	V	1.5	243

Test mode:		802.11b(1Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol. H/V	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)			(m)	(Degree)
4924.000	52.93	-4.03	48.90	74	-25.10	peak	H	1.5	274
4924.000	37.01	-4.03	32.98	54	-21.02	AVG	H	1.5	100
7386.000	50.44	1.66	52.10	74	-21.90	peak	H	1.5	213
7386.000	36.10	1.66	37.76	54	-16.24	AVG	H	1.5	167
4924.000	54.96	-4.03	50.93	74	-23.07	peak	V	1.5	241
4924.000	38.83	-4.03	34.80	54	-19.20	AVG	V	1.5	8
7386.000	49.49	1.66	51.15	74	-22.85	peak	V	1.5	111
7386.000	37.04	1.66	38.70	54	-15.30	AVG	V	1.5	47

Remark:

- 1) The 1Mbps of rate of 802.11b is the worst case.
- 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 25GHz, The disturbance above 13GHz 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.

Test mode:		802.11g(6Mbps)		Test channel:		Lowest			
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)
4824.000	53.15	-4.26	48.89	74	-25.11	peak	H	1.5	352
4824.000	37.97	-4.26	33.71	54	-20.29	AVG	H	1.5	264
7236.000	50.56	1.18	51.74	74	-22.26	peak	H	1.5	317
7236.000	38.20	1.18	39.38	54	-14.62	AVG	H	1.5	130
4824.000	54.29	-4.26	50.03	74	-23.97	peak	V	1.5	196
4824.000	39.71	-4.26	35.45	54	-18.55	AVG	V	1.5	154
7236.000	51.64	1.18	52.82	74	-21.18	peak	V	1.5	331
7236.000	35.45	1.18	36.63	54	-17.37	AVG	V	1.5	129

Test mode:		802.11g(6Mbps)		Test channel:		Middle			
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)
4874.000	53.05	-4.12	48.93	74	-25.07	peak	H	1.5	131
4874.000	37.03	-4.12	32.91	54	-21.09	AVG	H	1.5	277
7311.000	48.50	1.46	49.96	74	-24.04	peak	H	1.5	215
7311.000	36.12	1.46	37.58	54	-16.42	AVG	H	1.5	152
4874.000	53.93	-4.12	49.81	74	-24.19	peak	V	1.5	59
4874.000	36.98	-4.12	32.86	54	-21.14	AVG	V	1.5	91
7311.000	49.56	1.46	51.02	74	-22.98	peak	V	1.5	284
7311.000	36.95	1.46	38.41	54	-15.59	AVG	V	1.5	37

Test mode:		802.11g(6Mbps)		Test channel:		Highest			
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)
4924.000	51.30	-4.03	47.27	74	-26.73	peak	H	1.5	334
4924.000	37.10	-4.03	33.07	54	-20.93	AVG	H	1.5	111
7386.000	50.58	1.66	52.24	74	-21.76	peak	H	1.5	122
7386.000	36.39	1.66	38.05	54	-15.95	AVG	H	1.5	327
4924.000	54.49	-4.03	50.46	74	-23.54	peak	V	1.5	238
4924.000	37.21	-4.03	33.18	54	-20.82	AVG	V	1.5	321
7386.000	50.09	1.66	51.75	74	-22.25	peak	V	1.5	339
7386.000	37.89	1.66	39.55	54	-14.45	AVG	V	1.5	209

Remark:

- 1) The 6Mbps of rate of 802.11g is the worst case.
- 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 25GHz, The disturbance above 13GHz 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.

Test mode:		802.11n20(6.5Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4824.000	52.97	-4.26	48.71	74	-25.29	peak	H	1.5	41
4824.000	37.90	-4.26	33.64	54	-20.36	AVG	H	1.5	67
7236.000	50.97	1.18	52.15	74	-21.85	peak	H	1.5	189
7236.000	37.27	1.18	38.45	54	-15.55	AVG	H	1.5	138
4824.000	55.33	-4.26	51.07	74	-22.93	peak	V	1.5	349
4824.000	38.42	-4.26	34.16	54	-19.84	AVG	V	1.5	105
7236.000	51.07	1.18	52.25	74	-21.75	peak	V	1.5	174
7236.000	36.19	1.18	37.37	54	-16.63	AVG	V	1.5	54

Test mode:		802.11n20(6.5Mbps)		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4874.000	52.84	-4.12	48.72	74	-25.28	peak	H	1.5	164
4874.000	37.78	-4.12	33.66	54	-20.34	AVG	H	1.5	248
7311.000	49.72	1.46	51.18	74	-22.82	peak	H	1.5	138
7311.000	36.51	1.46	37.97	54	-16.03	AVG	H	1.5	128
4874.000	52.71	-4.12	48.59	74	-25.41	peak	V	1.5	160
4874.000	36.66	-4.12	32.54	54	-21.46	AVG	V	1.5	224
7311.000	48.60	1.46	50.06	74	-23.94	peak	V	1.5	30
7311.000	35.74	1.46	37.20	54	-16.80	AVG	V	1.5	237

Test mode:		802.11n20(6.5Mbps)		Test channel:		Highest			
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)
4924.000	52.73	-4.03	48.70	74	-25.30	peak	H	1.5	160
4924.000	37.38	-4.03	33.35	54	-20.65	AVG	H	1.5	142
7386.000	50.00	1.66	51.66	74	-22.34	peak	H	1.5	183
7386.000	37.04	1.66	38.70	54	-15.30	AVG	H	1.5	145
4924.000	55.20	-4.03	51.17	74	-22.83	peak	V	1.5	248
4924.000	37.81	-4.03	33.78	54	-20.22	AVG	V	1.5	197
7386.000	49.59	1.66	51.25	74	-22.75	peak	V	1.5	28
7386.000	37.35	1.66	39.01	54	-14.99	AVG	V	1.5	186

Remark:

- 1) The MCS0 of rate of 802.11n20 is the worst case.
- 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 25GHz, The disturbance above 13GHz 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.

5.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10 2013		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	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 Setup:

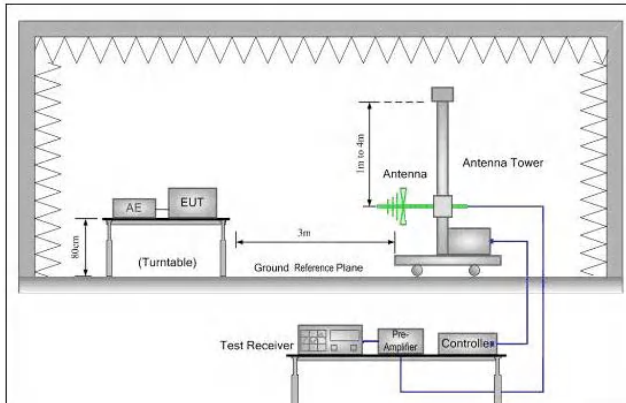


Figure 1. 30MHz to 1GHz

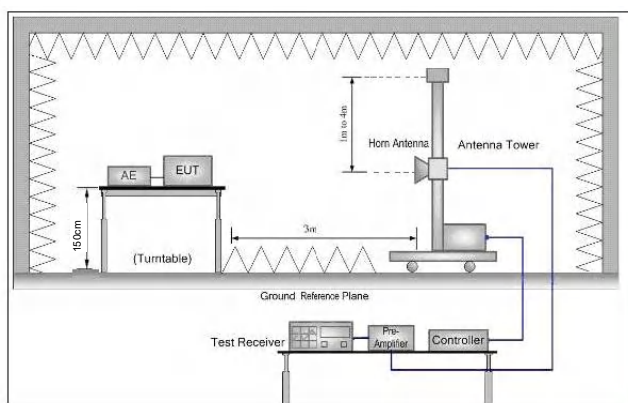


Figure 2. Above 1 GHz

Test Procedure:

- 1) Below 1G: 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.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.
- Note: For the radiated emission test above 1GHz:
- Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 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

	<p>then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. 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</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. 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 .</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case.</p> <p>Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).</p> <p>Only the worst case is recorded in the report.</p>
Test Results:	Pass

Test data:

Worse case mode:		802.11b(1Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2390.000	58.79	-9.2	49.59	74	-24.41	peak	H	1.5	224
2390.000	44.30	-9.2	35.10	54	-18.90	AVG	H	1.5	99
2400.000	59.33	-9.39	49.94	74	-24.06	peak	H	1.5	337
2400.000	46.84	-9.39	37.45	54	-16.55	AVG	H	1.5	70
2390.000	58.26	-9.2	49.06	74	-24.94	peak	V	1.5	355
2390.000	44.50	-9.2	35.30	54	-18.70	AVG	V	1.5	153
2400.000	59.39	-9.39	50.00	74	-24.00	peak	V	1.5	137
2400.000	46.45	-9.39	37.06	54	-16.94	AVG	V	1.5	8

Worse case mode:		802.11b(1Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2483.500	58.05	-9.29	48.76	74	-25.24	peak	H	1.5	196
2483.500	43.80	-9.29	34.51	54	-19.49	AVG	H	1.5	108
2483.500	57.94	-9.29	48.65	74	-25.35	peak	V	1.5	185
2483.500	45.71	-9.29	36.42	54	-17.58	AVG	V	1.5	228

Worse case mode:		802.11g(6Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2390.000	59.21	-9.2	50.01	74	-23.99	peak	H	1.5	61
2390.000	44.08	-9.2	34.88	54	-19.12	AVG	H	1.5	348
2400.000	59.43	-9.39	50.04	74	-23.96	peak	H	1.5	311
2400.000	46.13	-9.39	36.74	54	-17.26	AVG	H	1.5	189
2390.000	58.61	-9.2	49.41	74	-24.59	peak	V	1.5	70
2390.000	44.72	-9.2	35.52	54	-18.48	AVG	V	1.5	101
2400.000	59.78	-9.39	50.39	74	-23.61	peak	V	1.5	42
2400.000	46.42	-9.39	37.03	54	-16.97	AVG	V	1.5	330

Worse case mode:		802.11g(6Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2483.500	57.89	-9.29	48.60	74	-25.40	peak	H	1.5	265
2483.500	44.22	-9.29	34.93	54	-19.07	AVG	H	1.5	214
2483.500	57.90	-9.29	48.61	74	-25.39	peak	V	1.5	204
2483.500	45.80	-9.29	36.51	54	-17.49	AVG	V	1.5	318

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
2390.000	58.56	-9.2	49.36	74	-24.64	peak	H	1.5	277
2390.000	44.48	-9.2	35.28	54	-18.72	AVG	H	1.5	348
2400.000	59.36	-9.39	49.97	74	-24.03	peak	H	1.5	65
2400.000	46.19	-9.39	36.80	54	-17.20	AVG	H	1.5	264
2390.000	59.23	-9.2	50.03	74	-23.97	peak	V	1.5	344
2390.000	44.35	-9.2	35.15	54	-18.85	AVG	V	1.5	183
2400.000	59.88	-9.39	50.49	74	-23.51	peak	V	1.5	181
2400.000	46.77	-9.39	37.38	54	-16.62	AVG	V	1.5	122

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
2483.500	58.18	-9.29	48.89	74	-25.11	peak	H	1.5	346
2483.500	44.12	-9.29	34.83	54	-19.17	AVG	H	1.5	270
2483.500	57.87	-9.29	48.58	74	-25.42	peak	V	1.5	27
2483.500	45.74	-9.29	36.45	54	-17.55	AVG	V	1.5	332

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
2390.000	58.88	-9.2	49.68	74	-24.32	peak	H	1.5	24
2390.000	44.71	-9.2	35.51	54	-18.49	AVG	H	1.5	238
2400.000	59.69	-9.39	50.30	74	-23.70	peak	H	1.5	231
2400.000	46.05	-9.39	36.66	54	-17.34	AVG	H	1.5	143
2390.000	59.19	-9.2	49.99	74	-24.01	peak	V	1.5	226
2390.000	44.65	-9.2	35.45	54	-18.55	AVG	V	1.5	175
2400.000	59.57	-9.39	50.18	74	-23.82	peak	V	1.5	31
2400.000	46.61	-9.39	37.22	54	-16.78	AVG	V	1.5	140

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
2483.500	57.96	-9.29	48.67	74	-25.33	peak	H	1.5	334
2483.500	44.22	-9.29	34.93	54	-19.07	AVG	H	1.5	250
2483.500	57.79	-9.29	48.50	74	-25.50	peak	V	1.5	94
2483.500	46.10	-9.29	36.81	54	-17.19	AVG	V	1.5	112

Note:

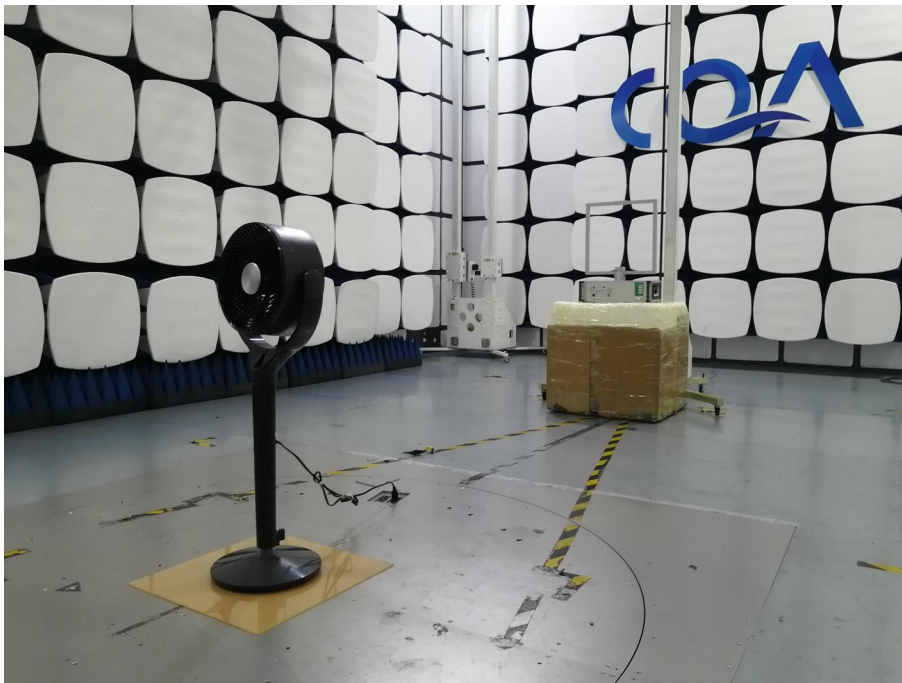
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

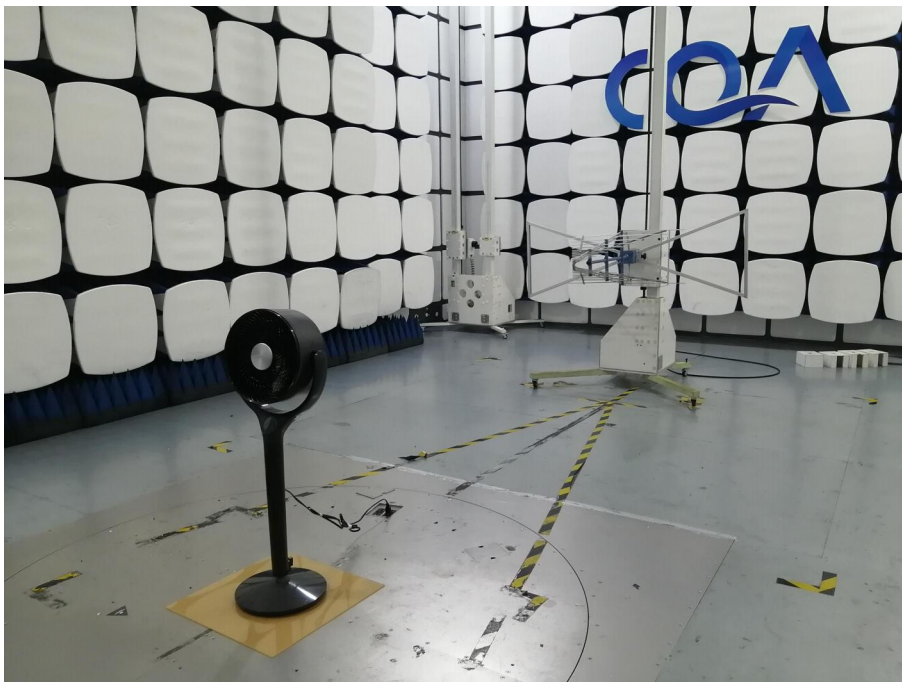
6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission

9kHz~30MHz:



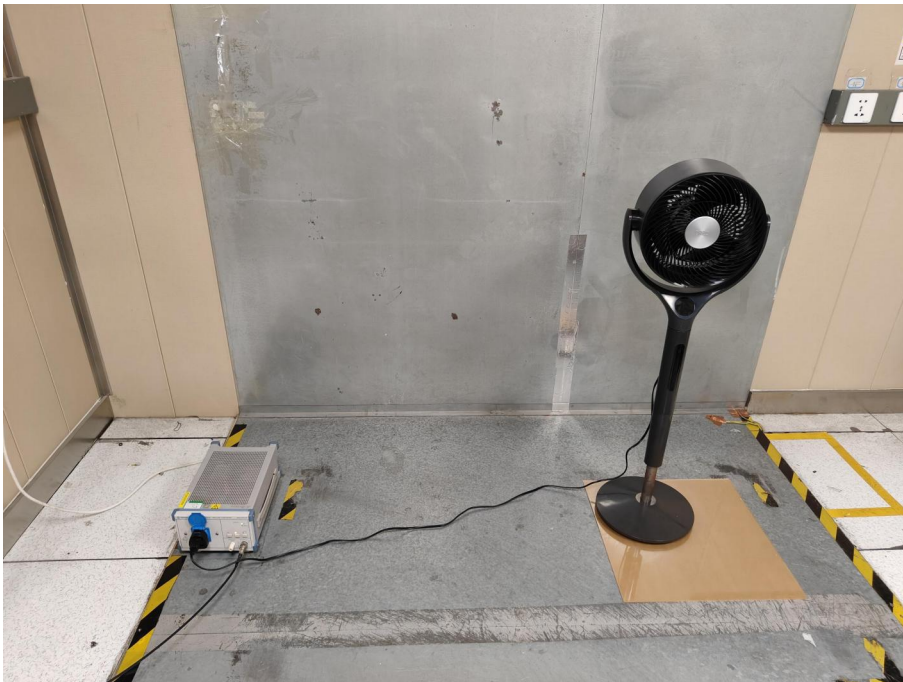
30MHz~1GHz:



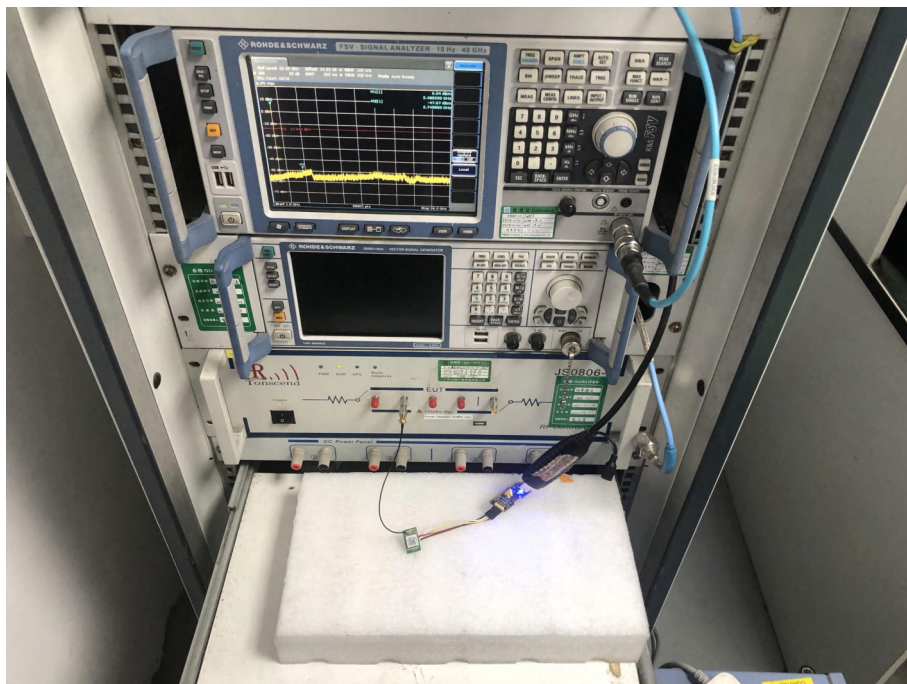
Above 1GHz:



6.2 Conducted Emission



6.3 RF Conducted measurement



7 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20250801859E-01.

*** END OF REPORT ***