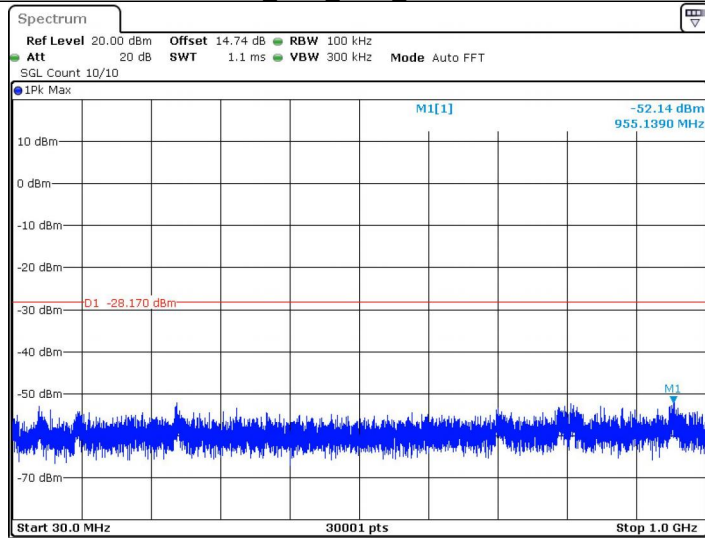
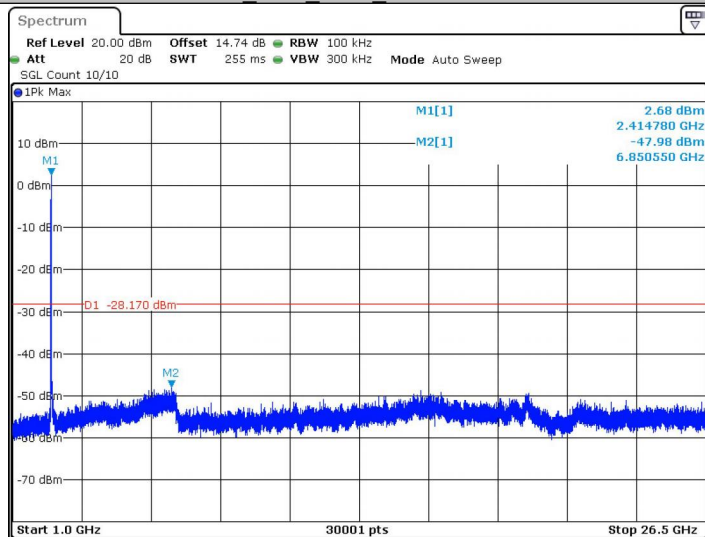


11G_Ant1_2412_30~1000



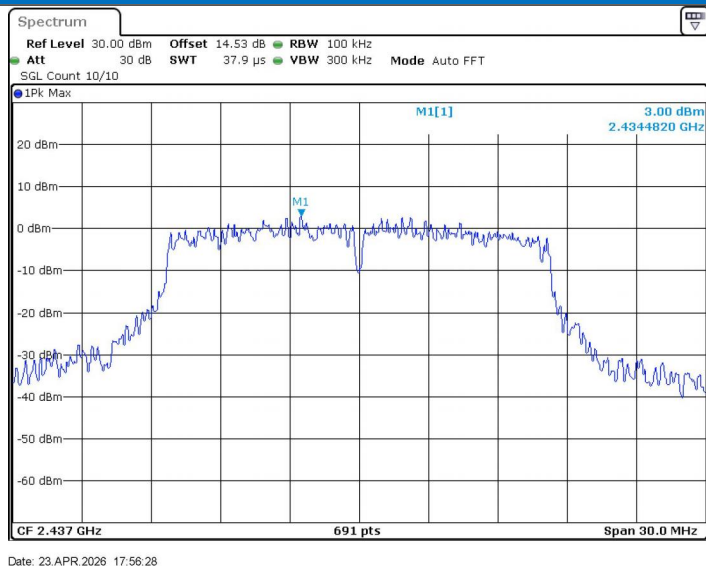
Date: 23 APR 2026 17:53:17

11G_Ant1_2412_1000~26500

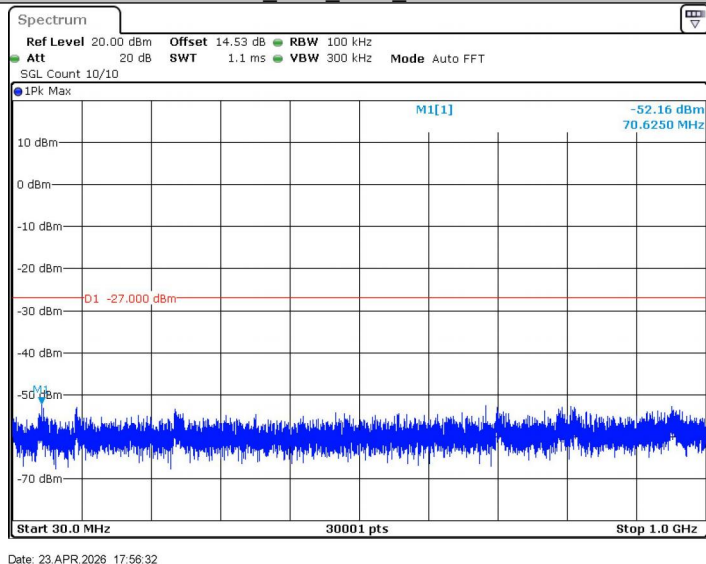


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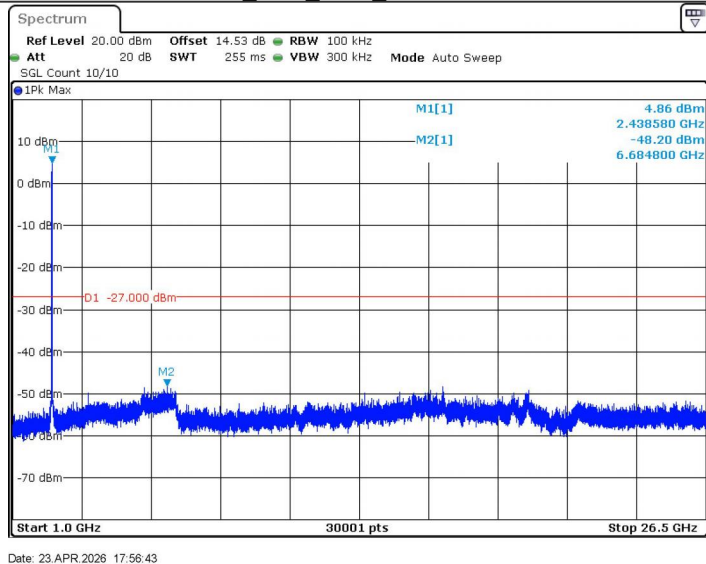
11G_Ant1_2437_0~Reference



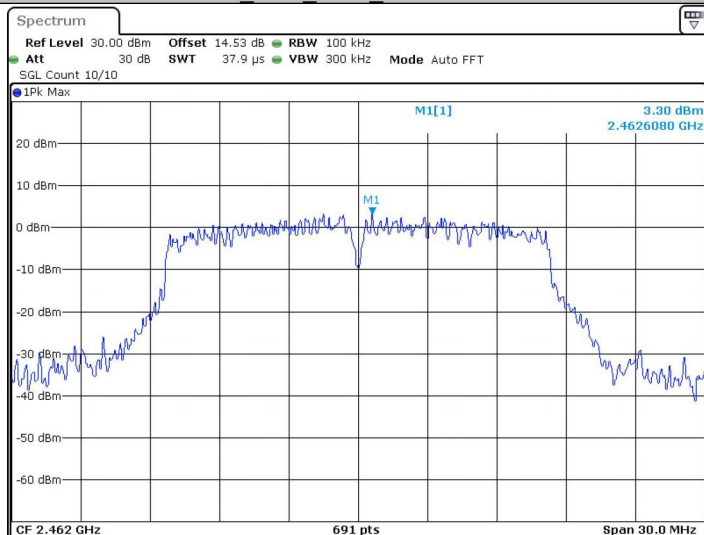
11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

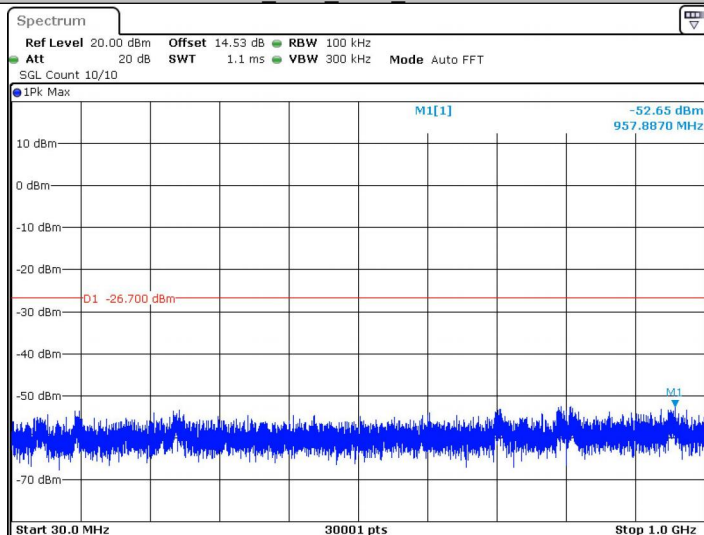


11G_Ant1_2462_0~Reference



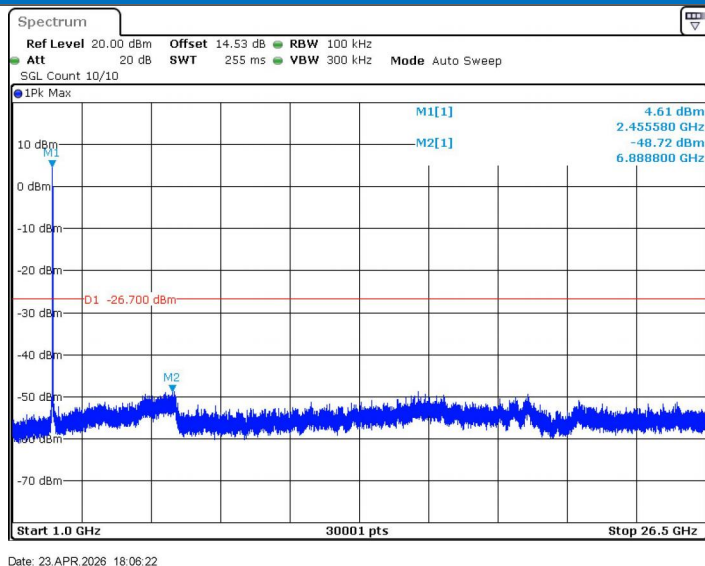
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11G_Ant1_2462_30~1000

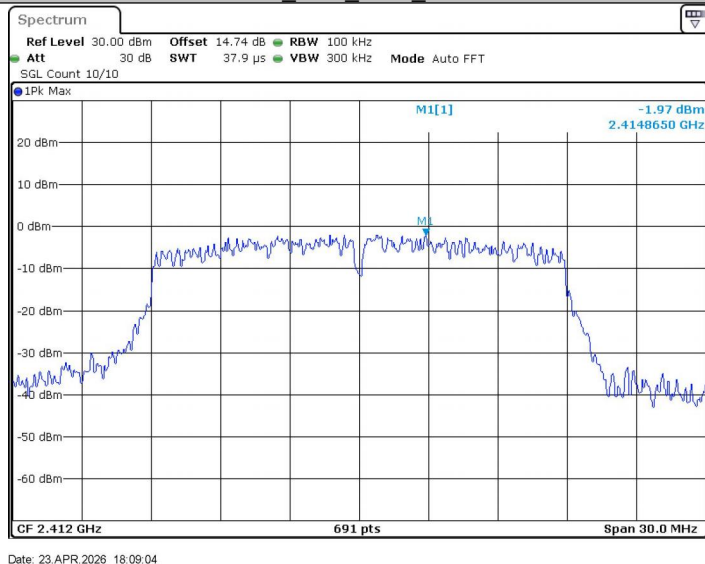


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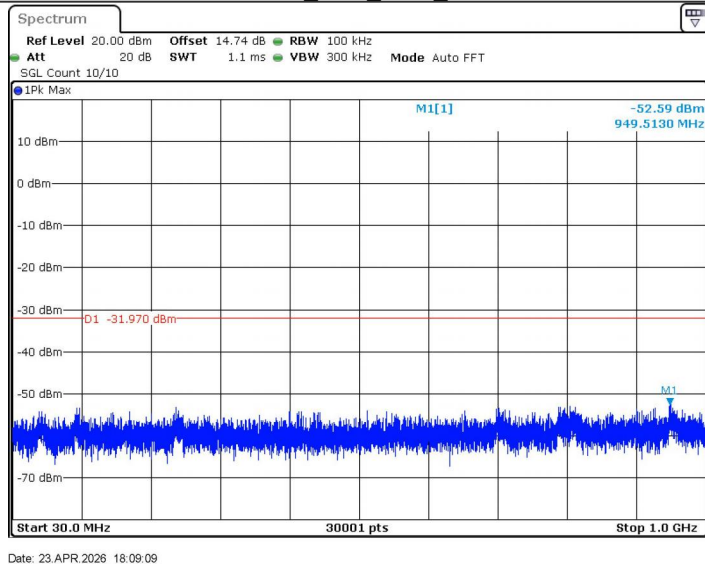
11G_Ant1_2462_1000~26500



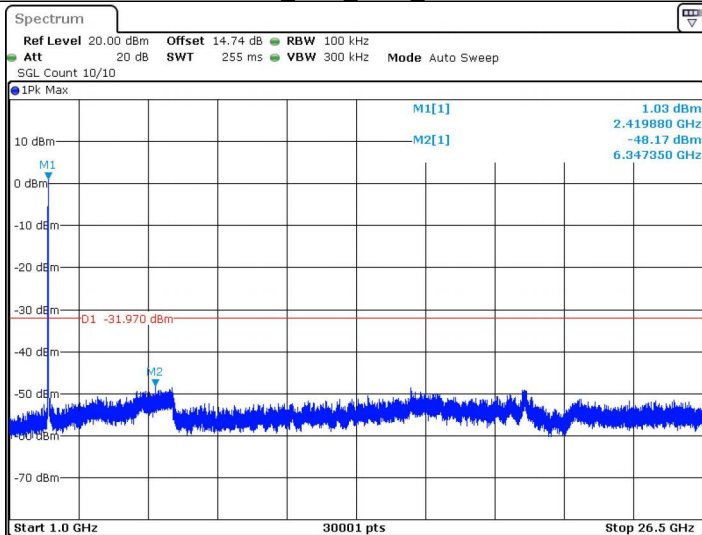
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

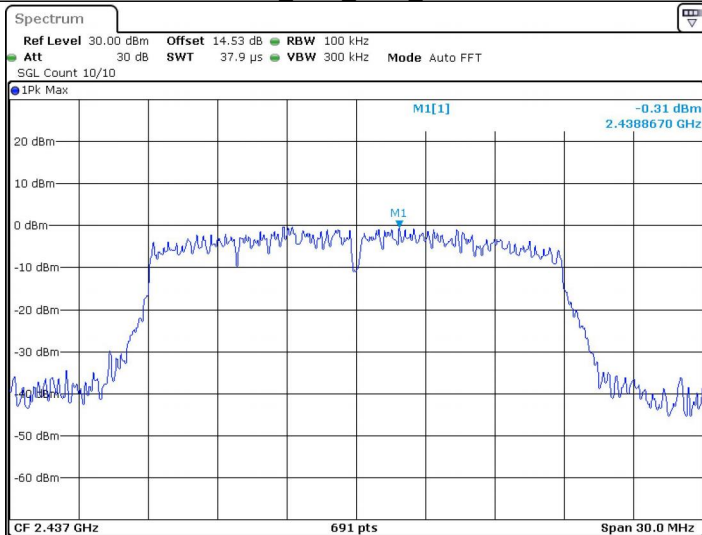


11N20SISO_Ant1_2412_1000~26500



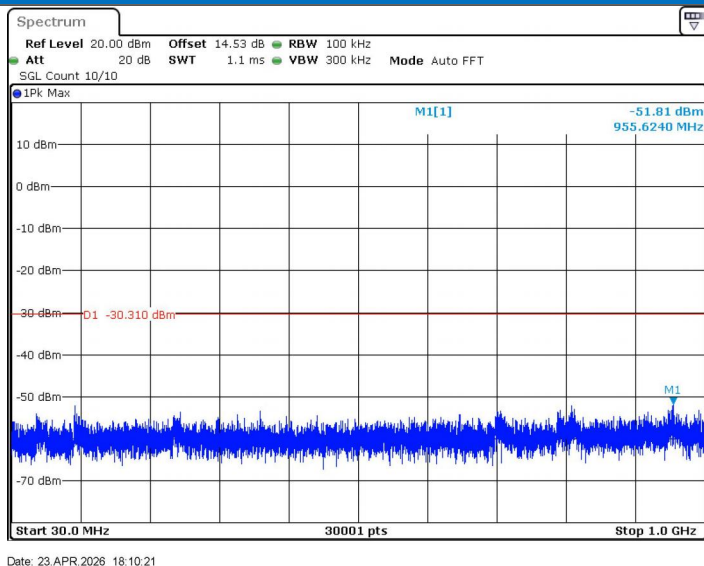
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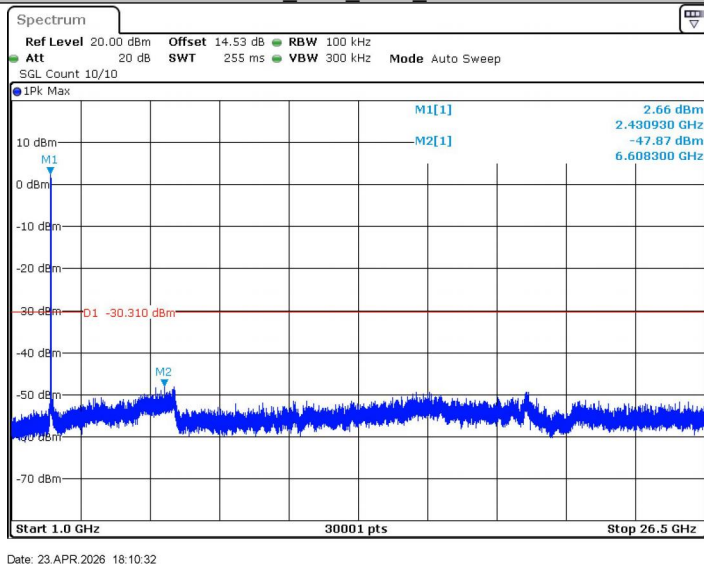


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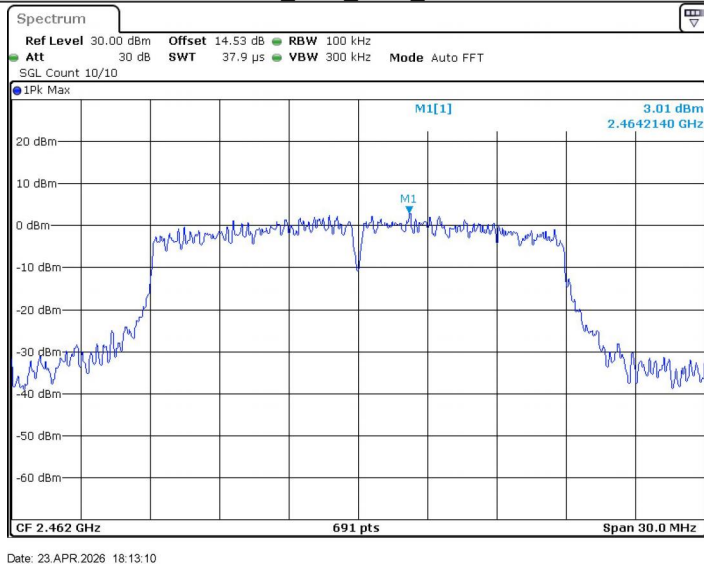
11N20SISO_Ant1_2437_30~1000



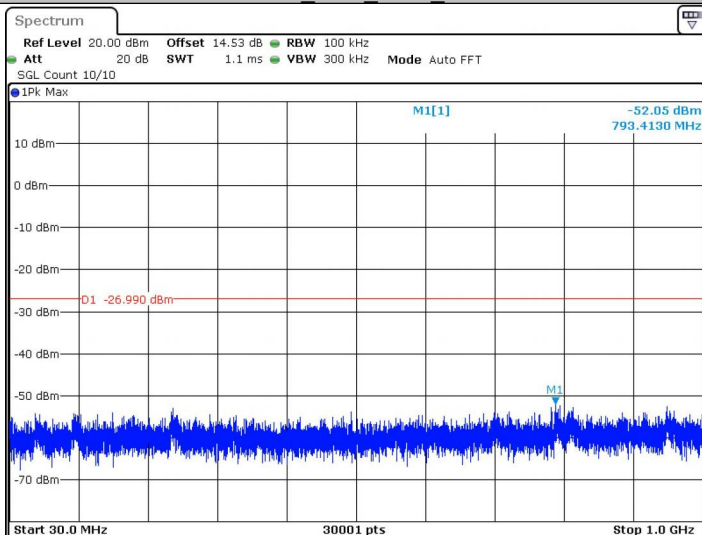
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

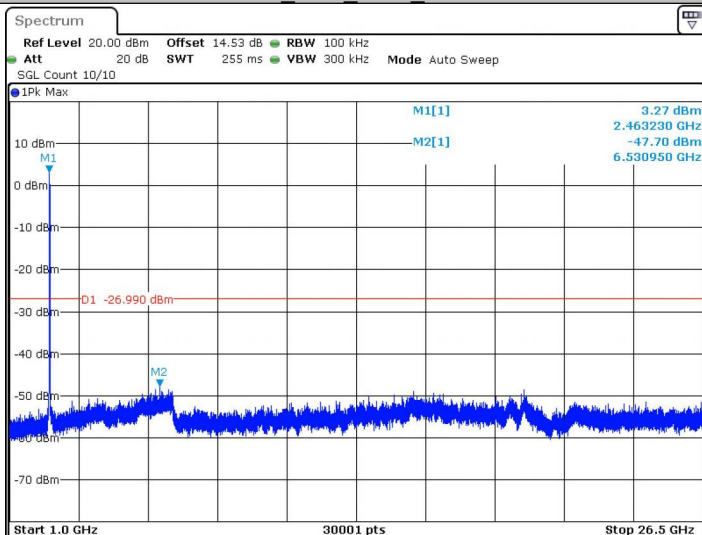


11N20SISO_Ant1_2462_30~1000



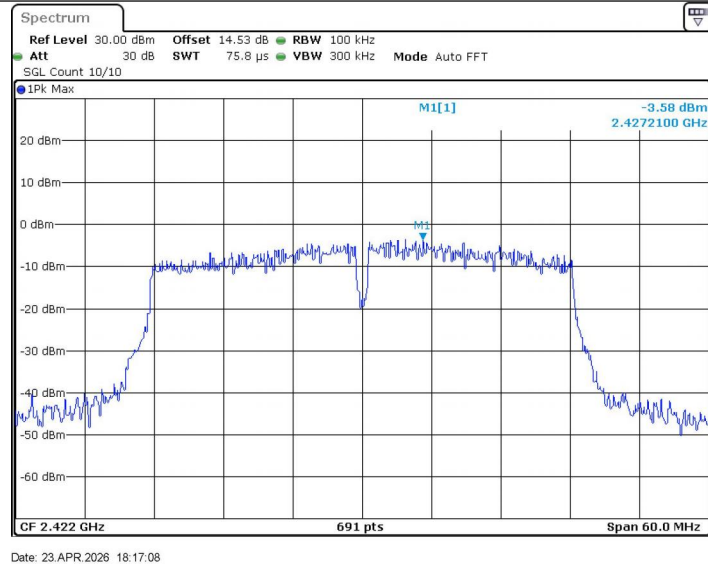
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11N20SISO_Ant1_2462_1000~26500

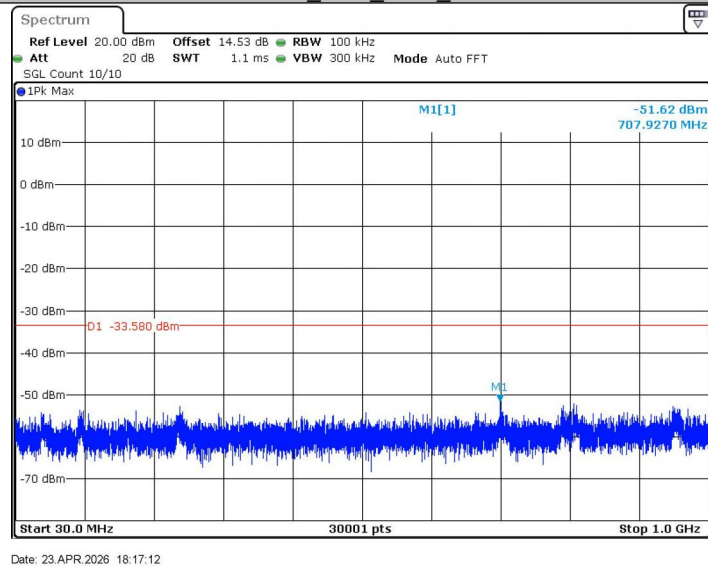


Date: 23 APR 2026 18:13:26

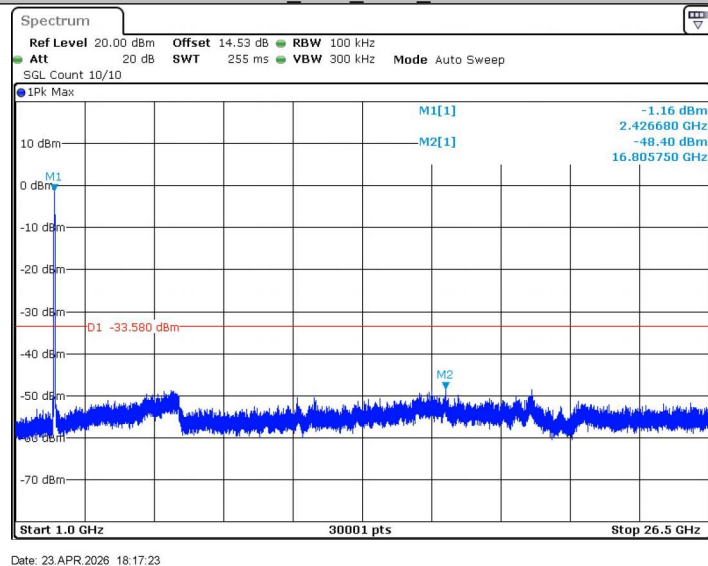
11N40SISO_Ant1_2422_0~Reference



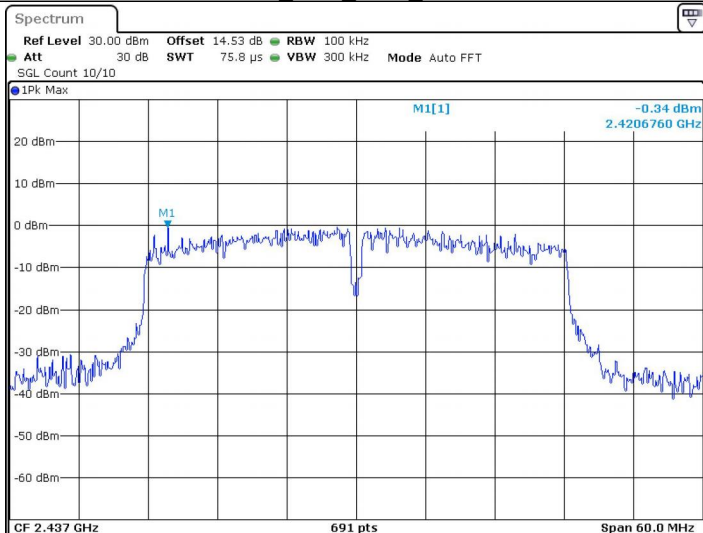
11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500

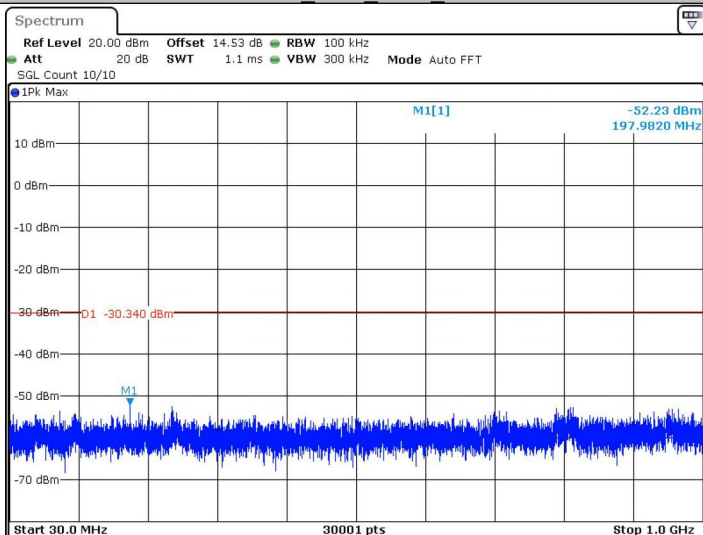


11N40SISO_Ant1_2437_0~Reference



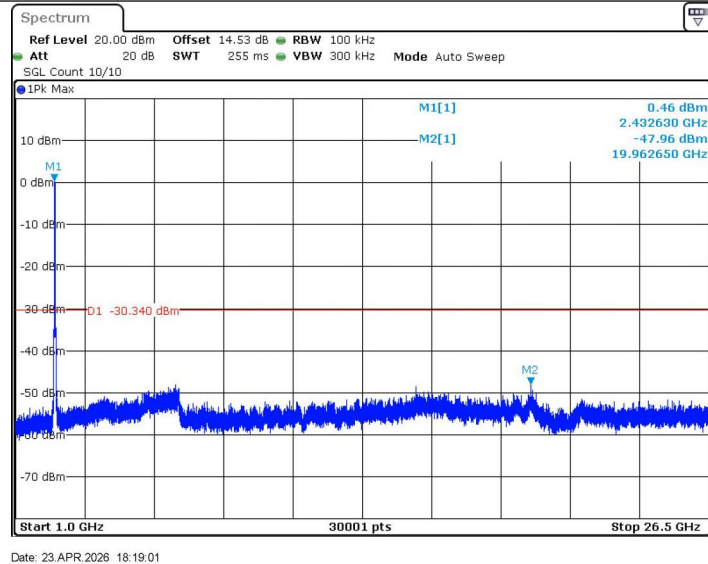
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11N40SISO_Ant1_2437_30~1000

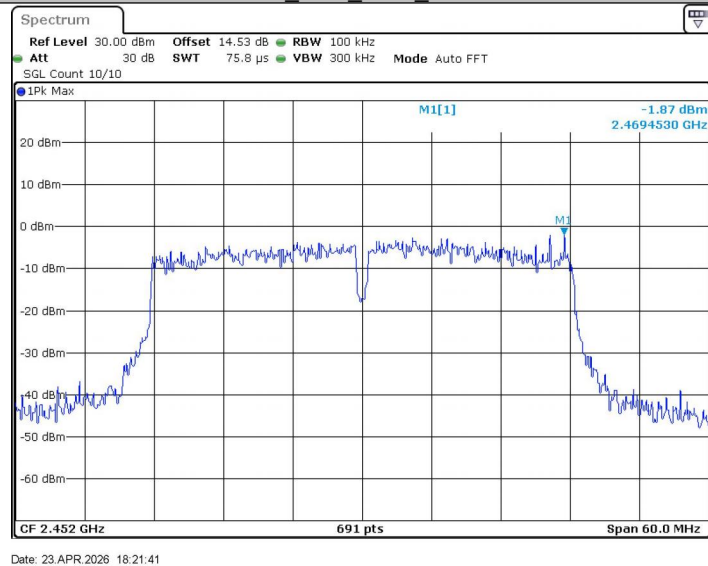


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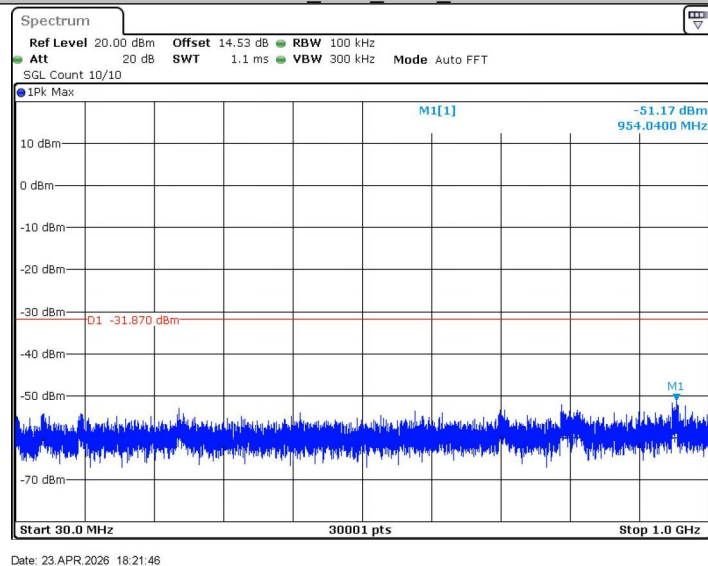
11N40SISO_Ant1_2437_1000~26500

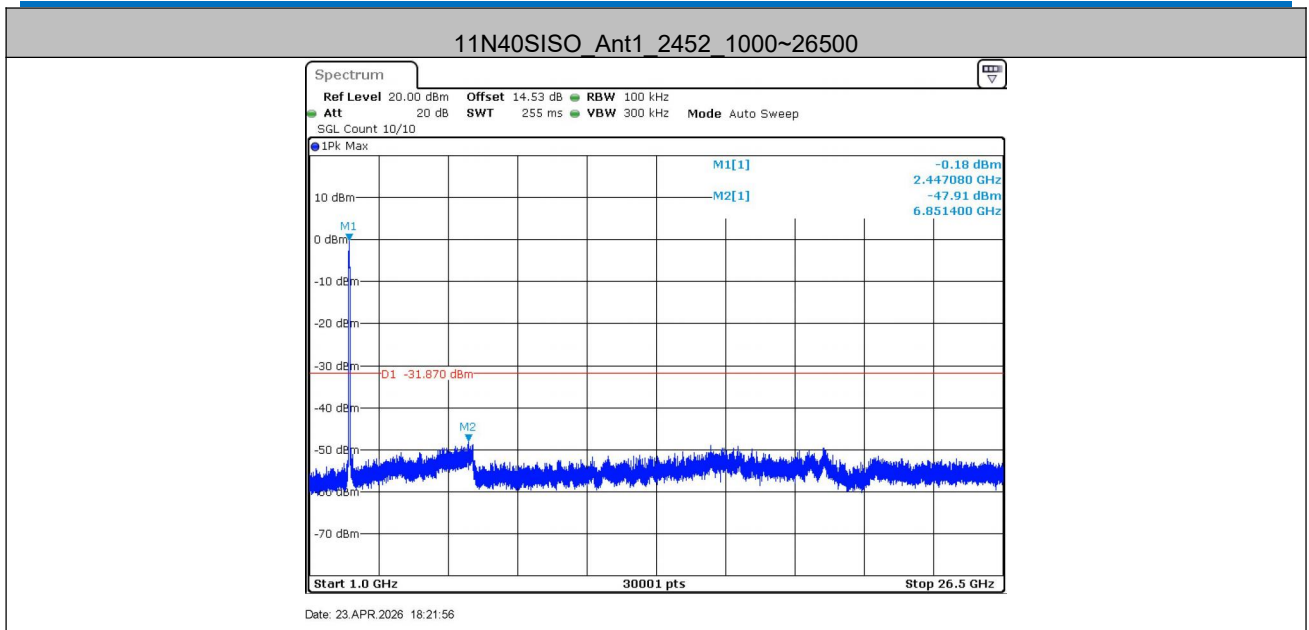


11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





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 2020				
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:

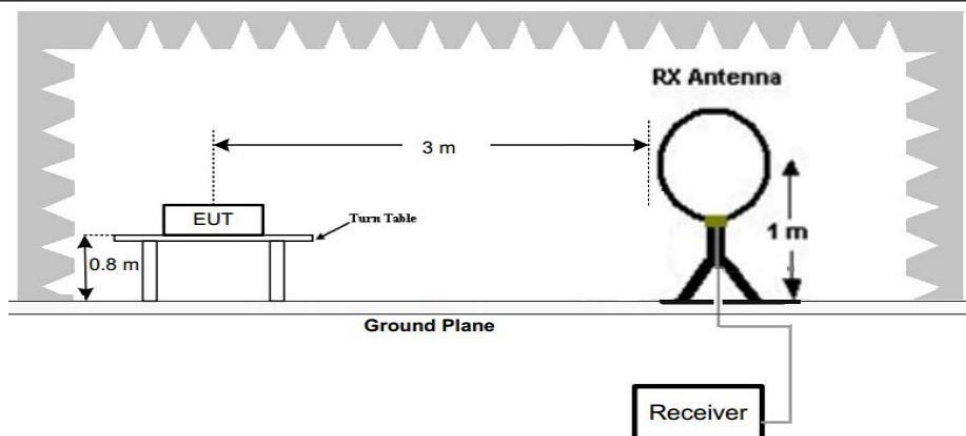


Figure 1. Below 30MHz

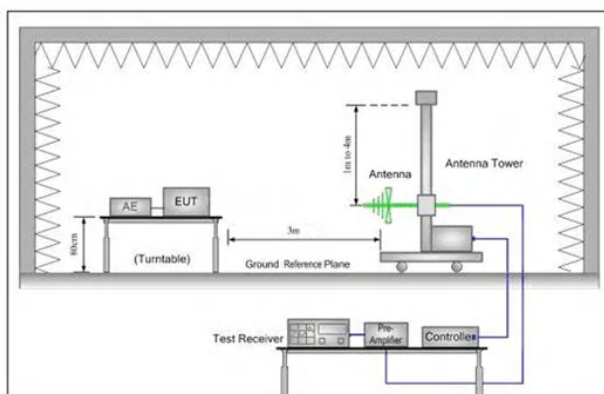


Figure 2. 30MHz to 1GHz

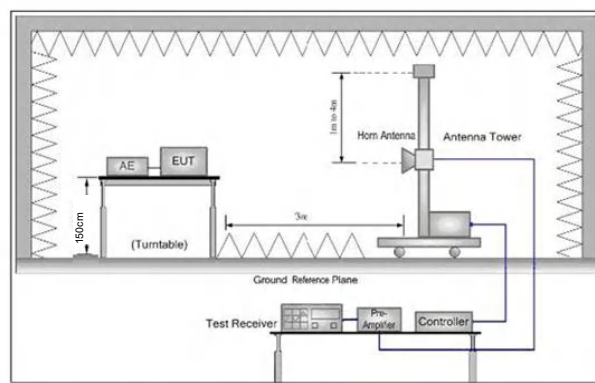


Figure 3. Above 1 GHz

Test Procedure:

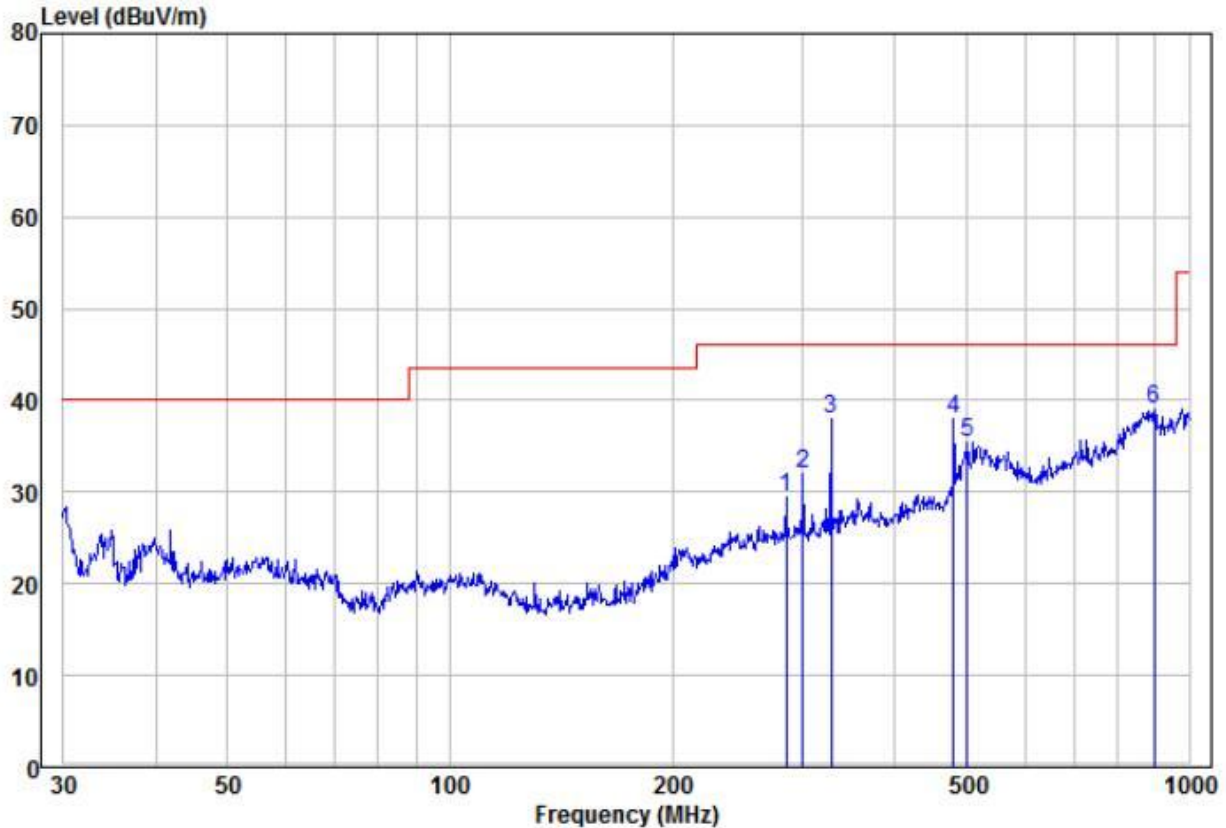
- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the 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.

	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. 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. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. 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 . i. Repeat above procedures until all frequencies measured was complete.
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



	Read Freq	Level	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	284.98	12.99	16.52	29.51	46.00	-16.49	Peak	VERTICAL
2	300.37	15.12	16.88	32.00	46.00	-14.00	Peak	VERTICAL
3	327.89	20.41	17.57	37.98	46.00	-8.02	Peak	VERTICAL
4	480.53	17.55	20.34	37.89	46.00	-8.11	Peak	VERTICAL
5	501.18	14.53	20.94	35.47	46.00	-10.53	Peak	VERTICAL
6 pp	897.00	10.10	29.05	39.15	46.00	-6.85	Peak	VERTICAL

Remark:

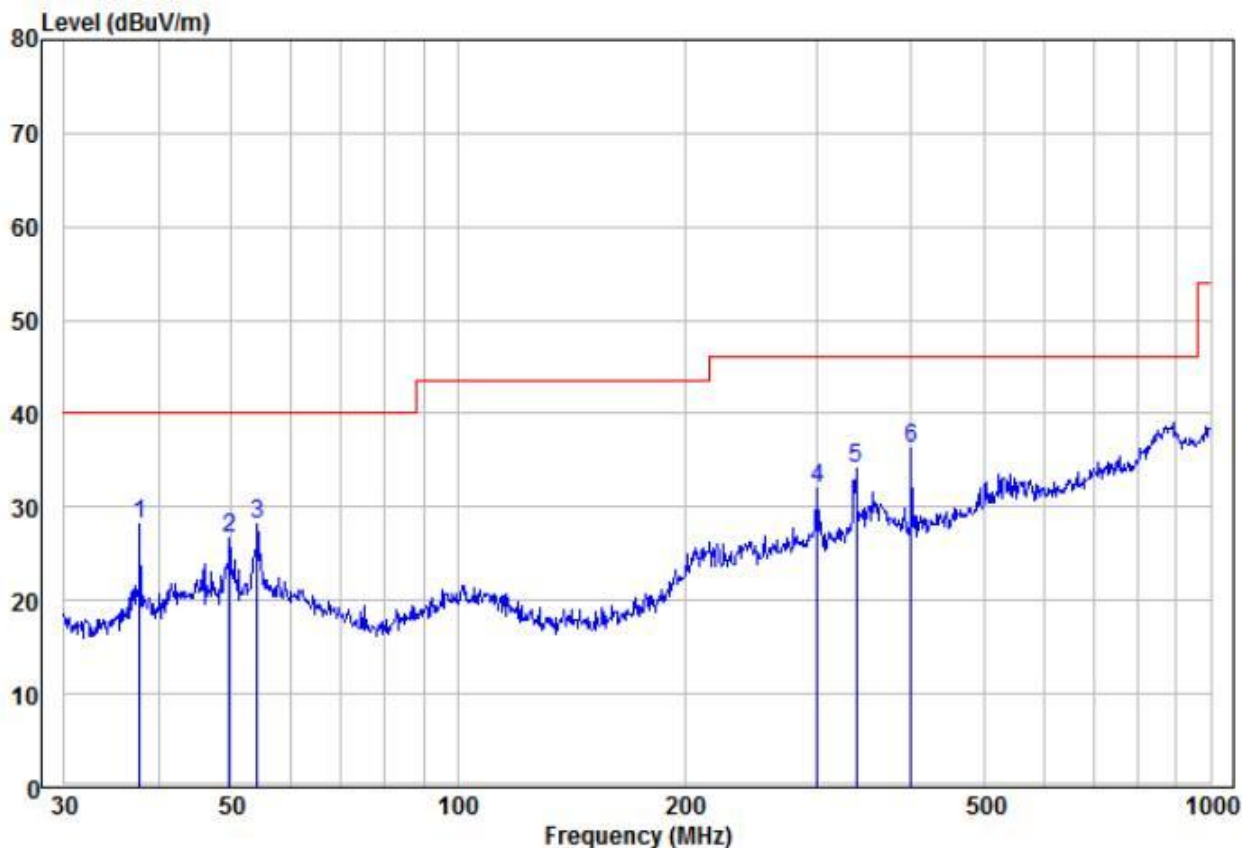
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Horizontal



	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	37.81	18.21	9.90	28.11	40.00	-11.89	Peak	HORIZONTAL
2	49.71	14.17	12.54	26.71	40.00	-13.29	Peak	HORIZONTAL
3	54.07	15.34	12.77	28.11	40.00	-11.89	Peak	HORIZONTAL
4	300.37	15.09	16.88	31.97	46.00	-14.03	Peak	HORIZONTAL
5	338.40	16.27	17.84	34.11	46.00	-11.89	Peak	HORIZONTAL
6 pp	400.43	17.93	18.40	36.33	46.00	-9.67	Peak	HORIZONTAL

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	53.83	-4.26	49.57	74	-24.43	peak	H	1.5	285
4824.000	37.36	-4.26	33.10	54	-20.90	AVG	H	1.5	216
7236.000	51.16	1.18	52.34	74	-21.66	peak	H	1.5	147
7236.000	38.35	1.18	39.53	54	-14.47	AVG	H	1.5	32
4824.000	54.49	-4.26	50.23	74	-23.77	peak	V	1.5	342
4824.000	38.76	-4.26	34.50	54	-19.50	AVG	V	1.5	352
7236.000	52.21	1.18	53.39	74	-20.61	peak	V	1.5	305
7236.000	35.34	1.18	36.52	54	-17.48	AVG	V	1.5	212

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	52.28	-4.12	48.16	74	-25.84	peak	H	1.5	327
4874.000	36.90	-4.12	32.78	54	-21.22	AVG	H	1.5	16
7311.000	50.13	1.46	51.59	74	-22.41	peak	H	1.5	112
7311.000	36.22	1.46	37.68	54	-16.32	AVG	H	1.5	17
4874.000	53.88	-4.12	49.76	74	-24.24	peak	V	1.5	83
4874.000	36.68	-4.12	32.56	54	-21.44	AVG	V	1.5	58
7311.000	49.27	1.46	50.73	74	-23.27	peak	V	1.5	209
7311.000	35.19	1.46	36.65	54	-17.35	AVG	V	1.5	202

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	52.77	-4.03	48.74	74	-25.26	peak	H	1.5	347
4924.000	36.98	-4.03	32.95	54	-21.05	AVG	H	1.5	51
7386.000	50.11	1.66	51.77	74	-22.23	peak	H	1.5	92
7386.000	36.48	1.66	38.14	54	-15.86	AVG	H	1.5	90
4924.000	54.40	-4.03	50.37	74	-23.63	peak	V	1.5	286
4924.000	37.99	-4.03	33.96	54	-20.04	AVG	V	1.5	262
7386.000	50.93	1.66	52.59	74	-21.41	peak	V	1.5	184
7386.000	36.39	1.66	38.05	54	-15.95	AVG	V	1.5	206

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	54.02	-4.26	49.76	74	-24.24	peak	H	1.5	195
4824.000	37.09	-4.26	32.83	54	-21.17	AVG	H	1.5	114
7236.000	50.71	1.18	51.89	74	-22.11	peak	H	1.5	188
7236.000	38.49	1.18	39.67	54	-14.33	AVG	H	1.5	254
4824.000	54.73	-4.26	50.47	74	-23.53	peak	V	1.5	238
4824.000	39.16	-4.26	34.90	54	-19.10	AVG	V	1.5	69
7236.000	51.54	1.18	52.72	74	-21.28	peak	V	1.5	351
7236.000	36.50	1.18	37.68	54	-16.32	AVG	V	1.5	110

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	52.53	-4.12	48.41	74	-25.59	peak	H	1.5	303
4874.000	36.26	-4.12	32.14	54	-21.86	AVG	H	1.5	173
7311.000	50.08	1.46	51.54	74	-22.46	peak	H	1.5	313
7311.000	35.98	1.46	37.44	54	-16.56	AVG	H	1.5	346
4874.000	52.93	-4.12	48.81	74	-25.19	peak	V	1.5	187
4874.000	37.97	-4.12	33.85	54	-20.15	AVG	V	1.5	228
7311.000	49.68	1.46	51.14	74	-22.86	peak	V	1.5	161
7311.000	35.39	1.46	36.85	54	-17.15	AVG	V	1.5	217

Test mode:		802.11g(6Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)				
4924.000	51.46	-4.03	47.43	74	-26.57	peak	H	1.5	154
4924.000	37.06	-4.03	33.03	54	-20.97	AVG	H	1.5	140
7386.000	49.98	1.66	51.64	74	-22.36	peak	H	1.5	167
7386.000	37.17	1.66	38.83	54	-15.17	AVG	H	1.5	314
4924.000	54.93	-4.03	50.90	74	-23.10	peak	V	1.5	33
4924.000	37.90	-4.03	33.87	54	-20.13	AVG	V	1.5	287
7386.000	50.91	1.66	52.57	74	-21.43	peak	V	1.5	236
7386.000	36.59	1.66	38.25	54	-15.75	AVG	V	1.5	339

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	53.88	-4.26	49.62	74	-24.38	peak	H	1.5	35
4824.000	36.89	-4.26	32.63	54	-21.37	AVG	H	1.5	289
7236.000	51.53	1.18	52.71	74	-21.29	peak	H	1.5	72
7236.000	38.32	1.18	39.50	54	-14.50	AVG	H	1.5	16
4824.000	55.22	-4.26	50.96	74	-23.04	peak	V	1.5	181
4824.000	39.57	-4.26	35.31	54	-18.69	AVG	V	1.5	79
7236.000	50.71	1.18	51.89	74	-22.11	peak	V	1.5	220
7236.000	35.10	1.18	36.28	54	-17.72	AVG	V	1.5	322

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	53.15	-4.12	49.03	74	-24.97	peak	H	1.5	123
4874.000	37.19	-4.12	33.07	54	-20.93	AVG	H	1.5	204
7311.000	49.05	1.46	50.51	74	-23.49	peak	H	1.5	252
7311.000	36.37	1.46	37.83	54	-16.17	AVG	H	1.5	106
4874.000	52.62	-4.12	48.50	74	-25.50	peak	V	1.5	74
4874.000	37.07	-4.12	32.95	54	-21.05	AVG	V	1.5	337
7311.000	49.84	1.46	51.30	74	-22.70	peak	V	1.5	242
7311.000	35.40	1.46	36.86	54	-17.14	AVG	V	1.5	331

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	51.93	-4.03	47.90	74	-26.10	peak	H	1.5	198
4924.000	38.88	-4.03	34.85	54	-19.15	AVG	H	1.5	280
7386.000	51.00	1.66	52.66	74	-21.34	peak	H	1.5	67
7386.000	37.06	1.66	38.72	54	-15.28	AVG	H	1.5	121
4924.000	55.01	-4.03	50.98	74	-23.02	peak	V	1.5	123
4924.000	38.75	-4.03	34.72	54	-19.28	AVG	V	1.5	352
7386.000	49.34	1.66	51.00	74	-23.00	peak	V	1.5	319
7386.000	37.88	1.66	39.54	54	-14.46	AVG	V	1.5	233

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.

Test mode:		802.11n40(13.5Mbps)		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	53.24	-4.24	49.00	74	-25.00	peak	H	1.5	1
4824.000	36.20	-4.24	31.96	54	-22.04	AVG	H	1.5	35
7236.000	51.24	1.2	52.44	74	-21.56	peak	H	1.5	186
7236.000	38.93	1.2	40.13	54	-13.87	AVG	H	1.5	324
4824.000	55.94	-4.24	51.70	74	-22.30	peak	V	1.5	310
4824.000	39.36	-4.24	35.12	54	-18.88	AVG	V	1.5	302
7236.000	51.42	1.2	52.62	74	-21.38	peak	V	1.5	64
7236.000	36.34	1.2	37.54	54	-16.46	AVG	V	1.5	338

Test mode:		802.11n40(13.5Mbps)		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	51.25	-4.12	47.13	74	-26.87	peak	H	1.5	147
4874.000	37.96	-4.12	33.84	54	-20.16	AVG	H	1.5	320
7311.000	48.59	1.46	50.05	74	-23.95	peak	H	1.5	168
7311.000	35.01	1.46	36.47	54	-17.53	AVG	H	1.5	295
4874.000	53.72	-4.12	49.60	74	-24.40	peak	V	1.5	351
4874.000	37.67	-4.12	33.55	54	-20.45	AVG	V	1.5	151
7311.000	48.58	1.46	50.04	74	-23.96	peak	V	1.5	259
7311.000	35.09	1.46	36.55	54	-17.45	AVG	V	1.5	344

Test mode:		802.11n40(13.5Mbps)		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	52.53	-4.05	48.48	74	-25.52	peak	H	1.5	153
4924.000	37.60	-4.05	33.55	54	-20.45	AVG	H	1.5	249
7386.000	51.36	1.64	53.00	74	-21.00	peak	H	1.5	164
7386.000	37.25	1.64	38.89	54	-15.11	AVG	H	1.5	85
4924.000	54.99	-4.05	50.94	74	-23.06	peak	V	1.5	167
4924.000	39.93	-4.05	35.88	54	-18.12	AVG	V	1.5	240
7386.000	51.27	1.64	52.91	74	-21.09	peak	V	1.5	136
7386.000	35.65	1.64	37.29	54	-16.71	AVG	V	1.5	24

Remark:

- 1) The MCS0 of rate of 802.11n40 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 2020		
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:			

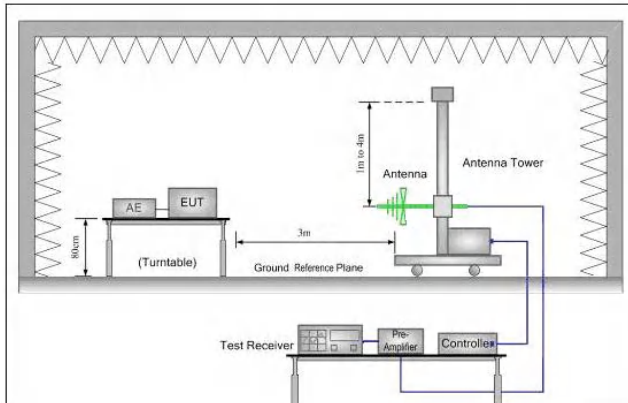


Figure 1. 30MHz to 1GHz

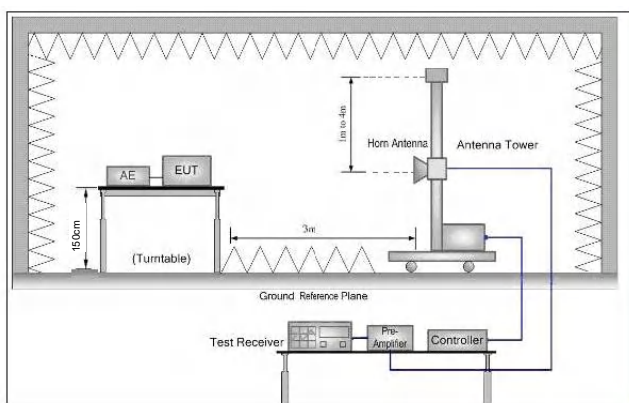


Figure 2. Above 1 GHz

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

	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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 g. Test the EUT in the lowest channel, the middle channel, the Highest channel. 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 . i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case. 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). Only the worst case is recorded in the report.
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	58.80	-9.2	49.60	74	-24.40	peak	H	1.5	5
2390.000	44.79	-9.2	35.59	54	-18.41	AVG	H	1.5	76
2400.000	59.28	-9.39	49.89	74	-24.11	peak	H	1.5	43
2400.000	46.92	-9.39	37.53	54	-16.47	AVG	H	1.5	204
2390.000	58.88	-9.2	49.68	74	-24.32	peak	V	1.5	294
2390.000	44.54	-9.2	35.34	54	-18.66	AVG	V	1.5	225
2400.000	59.42	-9.39	50.03	74	-23.97	peak	V	1.5	137
2400.000	46.33	-9.39	36.94	54	-17.06	AVG	V	1.5	301

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	58.43	-9.29	49.14	74	-24.86	peak	H	1.5	303
2483.500	43.78	-9.29	34.49	54	-19.51	AVG	H	1.5	142
2483.500	58.00	-9.29	48.71	74	-25.29	peak	V	1.5	335
2483.500	45.73	-9.29	36.44	54	-17.56	AVG	V	1.5	129

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	58.66	-9.2	49.46	74	-24.54	peak	H	1.5	274
2390.000	44.05	-9.2	34.85	54	-19.15	AVG	H	1.5	318
2400.000	59.35	-9.39	49.96	74	-24.04	peak	H	1.5	0
2400.000	46.23	-9.39	36.84	54	-17.16	AVG	H	1.5	305
2390.000	59.08	-9.2	49.88	74	-24.12	peak	V	1.5	292
2390.000	44.40	-9.2	35.20	54	-18.80	AVG	V	1.5	227
2400.000	60.22	-9.39	50.83	74	-23.17	peak	V	1.5	98
2400.000	46.06	-9.39	36.67	54	-17.33	AVG	V	1.5	262

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	57.95	-9.29	48.66	74	-25.34	peak	H	1.5	28
2483.500	44.20	-9.29	34.91	54	-19.09	AVG	H	1.5	175
2483.500	57.85	-9.29	48.56	74	-25.44	peak	V	1.5	356
2483.500	45.70	-9.29	36.41	54	-17.59	AVG	V	1.5	231

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	58.69	-9.2	49.49	74	-24.51	peak	H	1.5	288
2390.000	44.27	-9.2	35.07	54	-18.93	AVG	H	1.5	73
2400.000	59.80	-9.39	50.41	74	-23.59	peak	H	1.5	294
2400.000	46.23	-9.39	36.84	54	-17.16	AVG	H	1.5	144
2390.000	58.36	-9.2	49.16	74	-24.84	peak	V	1.5	219
2390.000	44.73	-9.2	35.53	54	-18.47	AVG	V	1.5	327
2400.000	59.89	-9.39	50.50	74	-23.50	peak	V	1.5	70
2400.000	46.12	-9.39	36.73	54	-17.27	AVG	V	1.5	259

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	57.51	-9.29	48.22	74	-25.78	peak	H	1.5	127
2483.500	43.65	-9.29	34.36	54	-19.64	AVG	H	1.5	297
2483.500	58.31	-9.29	49.02	74	-24.98	peak	V	1.5	177
2483.500	45.96	-9.29	36.67	54	-17.33	AVG	V	1.5	67

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	58.30	-9.2	49.10	74	-24.90	peak	H	1.5	95
2390.000	44.05	-9.2	34.85	54	-19.15	AVG	H	1.5	319
2400.000	60.17	-9.39	50.78	74	-23.22	peak	H	1.5	188
2400.000	46.78	-9.39	37.39	54	-16.61	AVG	H	1.5	63
2390.000	58.80	-9.2	49.60	74	-24.40	peak	V	1.5	41
2390.000	44.69	-9.2	35.49	54	-18.51	AVG	V	1.5	268
2400.000	60.17	-9.39	50.78	74	-23.22	peak	V	1.5	96
2400.000	46.35	-9.39	36.96	54	-17.04	AVG	V	1.5	112

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	57.55	-9.29	48.26	74	-25.74	peak	H	1.5	89
2483.500	43.48	-9.29	34.19	54	-19.81	AVG	H	1.5	223
2483.500	58.07	-9.29	48.78	74	-25.22	peak	V	1.5	104
2483.500	46.23	-9.29	36.94	54	-17.06	AVG	V	1.5	90

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:



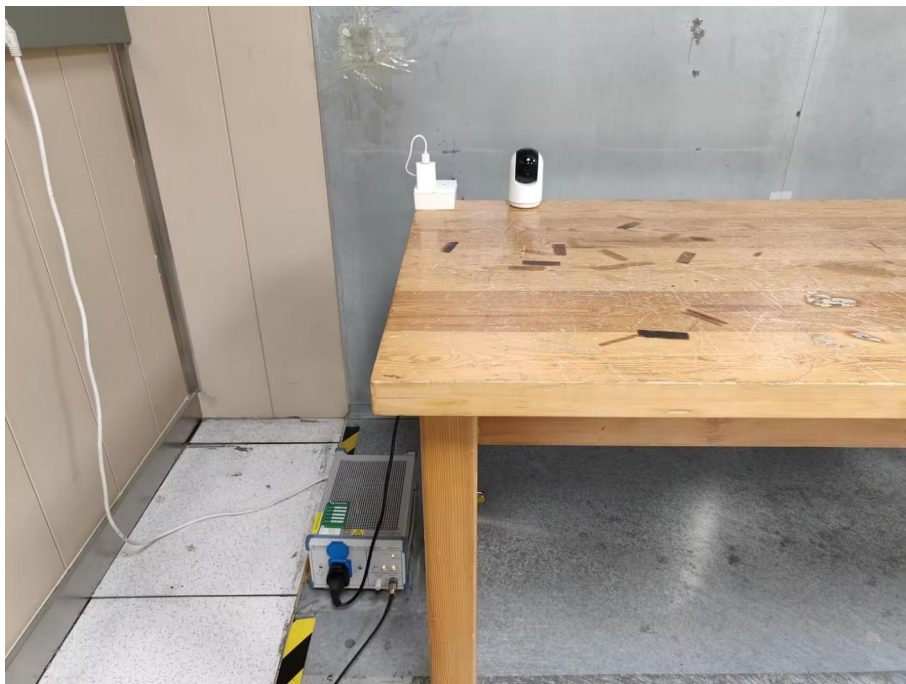
30MHz~1GHz:



Above 1GHz:



6.2 Conducted Emission



7 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20260300608E-01.

*** END OF REPORT ***