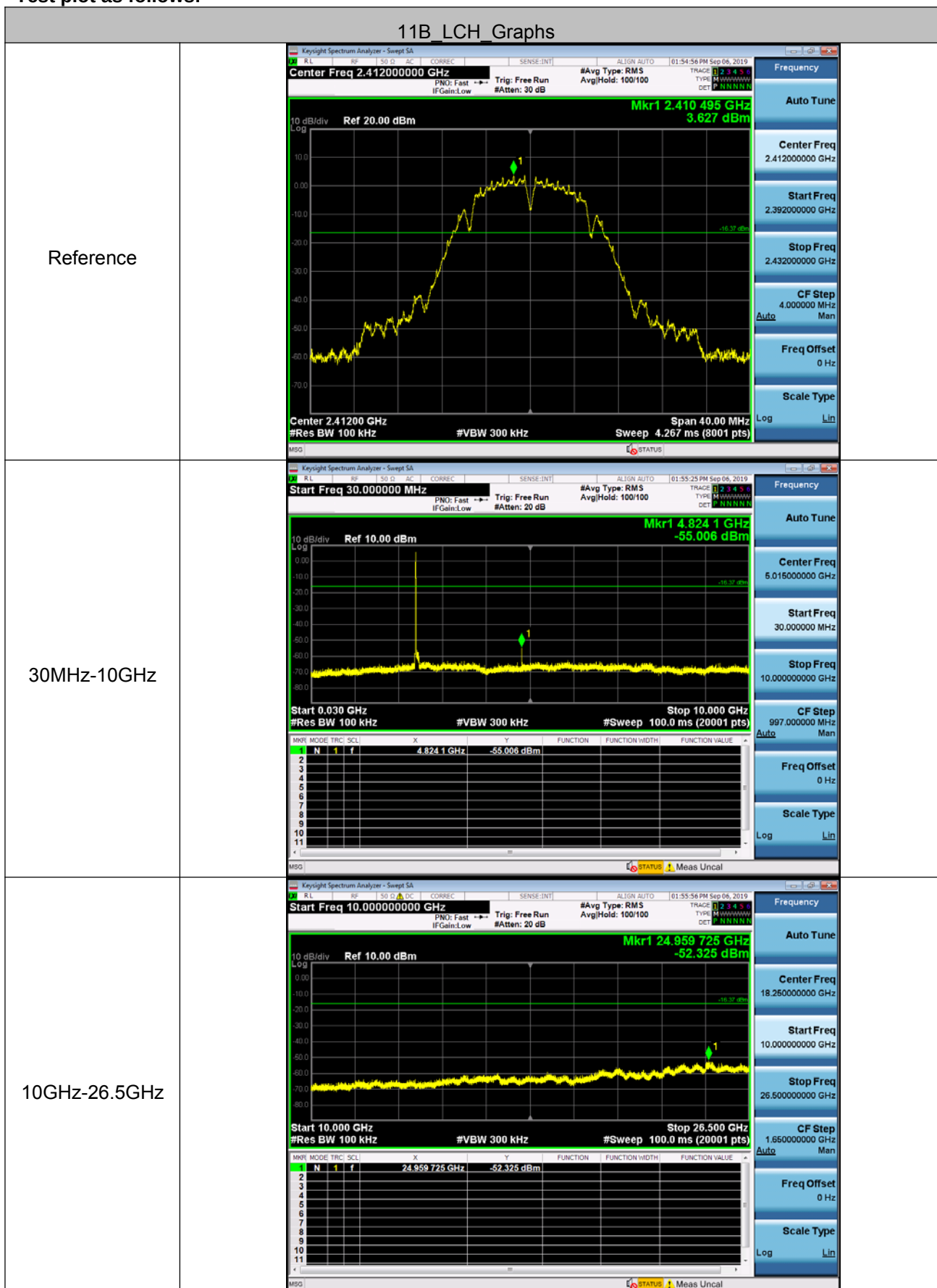
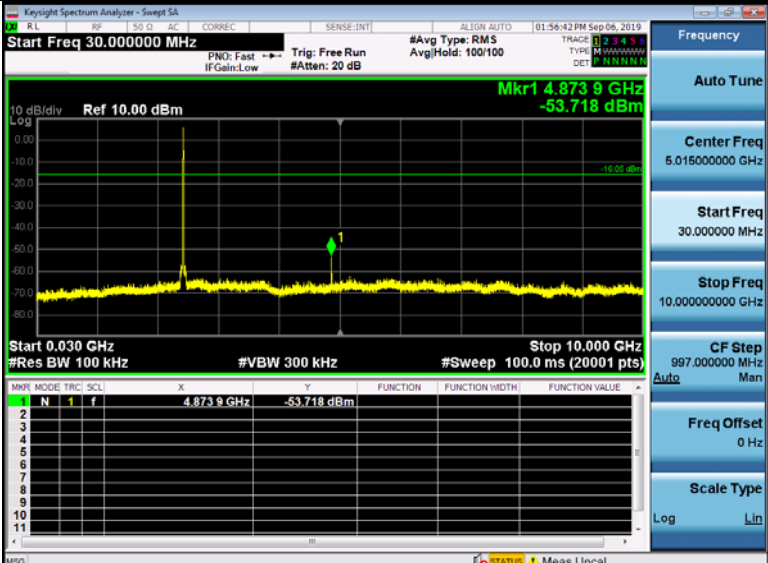
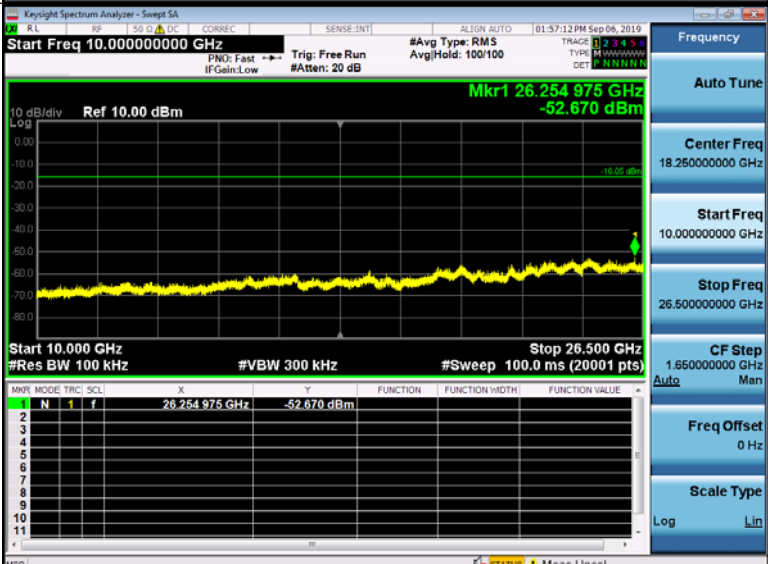


Test plot as follows:



11B_MCH_Graphs

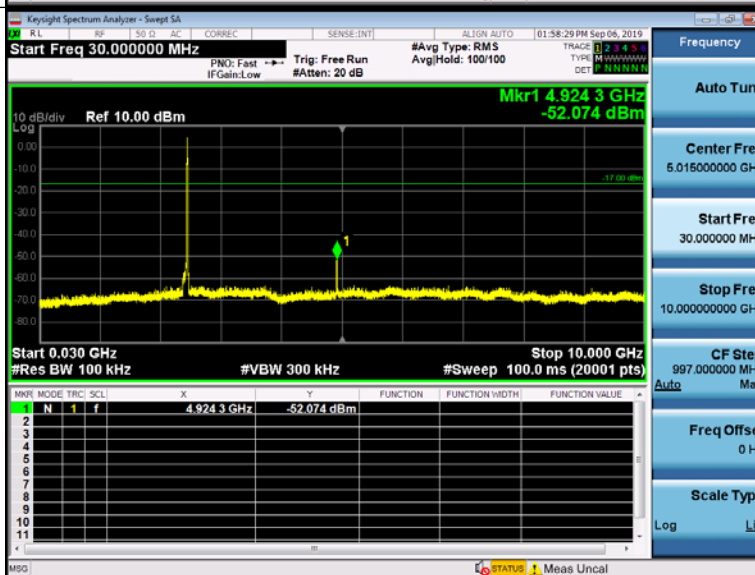
Reference	 Keylight Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref 20.00 dBm Mkr1 2.438 500 GHz 3.953 dBm 10 dB/div Log Center 2.43700 GHz Span 40.00 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.267 ms (8001 pts) Frequency Auto Tune Center Freq 2.43700000 GHz Start Freq 2.417000000 GHz Stop Freq 2.457000000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz Scale Type Log Lin
30MHz-10GHz	 Keylight Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz Ref 10.00 dBm Mkr1 4.873 9 GHz -53.718 dBm 10 dB/div Log Start 0.030 GHz Stop 10.000 GHz #Res BW 100 kHz #VBW 300 kHz #Sweep 100.0 ms (20001 pts) Frequency Auto Tune Center Freq 5.015000000 GHz Start Freq 30.000000 MHz Stop Freq 10.00000000 GHz CF Step 997.000000 MHz Freq Offset 0 Hz Scale Type Log Lin
10GHz-26.5GHz	 Keylight Spectrum Analyzer - Sweep SA Start Freq 10.000000000 GHz Ref 10.00 dBm Mkr1 26.254 975 GHz -52.670 dBm 10 dB/div Log Start 10.000 GHz Stop 26.500 GHz #Res BW 100 kHz #VBW 300 kHz #Sweep 100.0 ms (20001 pts) Frequency Auto Tune Center Freq 18.250000000 GHz Start Freq 10.000000000 GHz Stop Freq 26.500000000 GHz CF Step 1.650000000 GHz Freq Offset 0 Hz Scale Type Log Lin

11B_HCH_Graphs

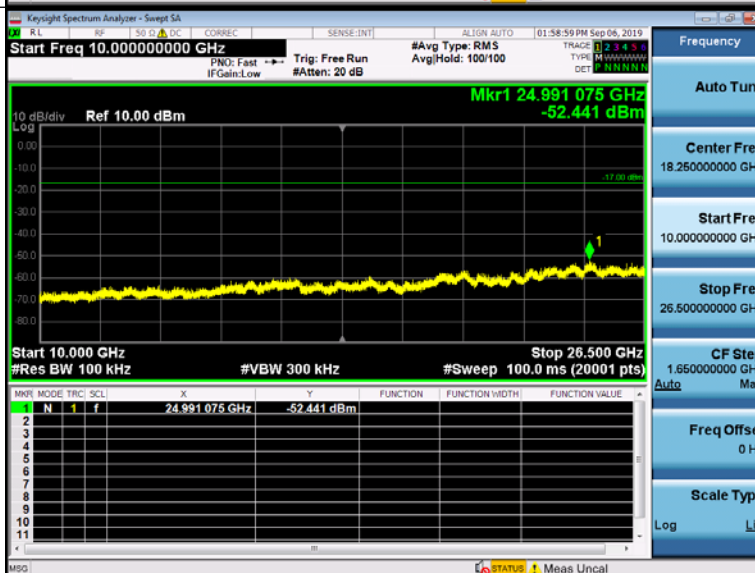
Reference



30MHz-10GHz

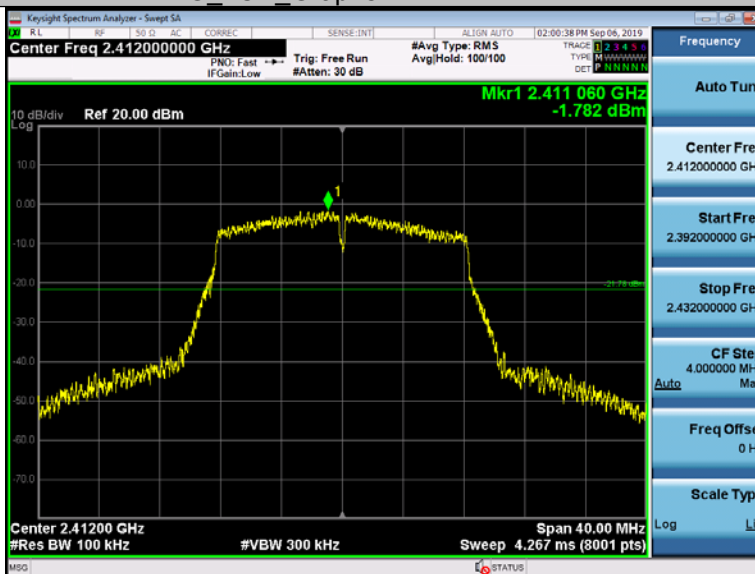


10GHz-26.5GHz

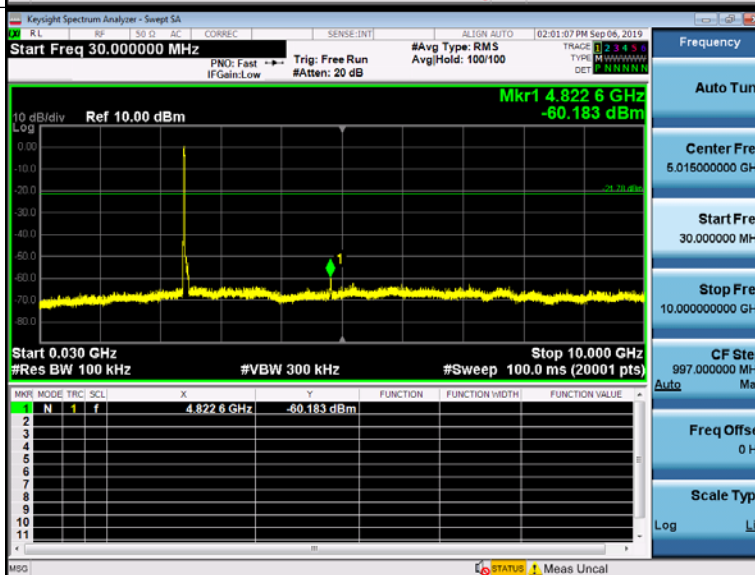


11G_LCH_Graphs

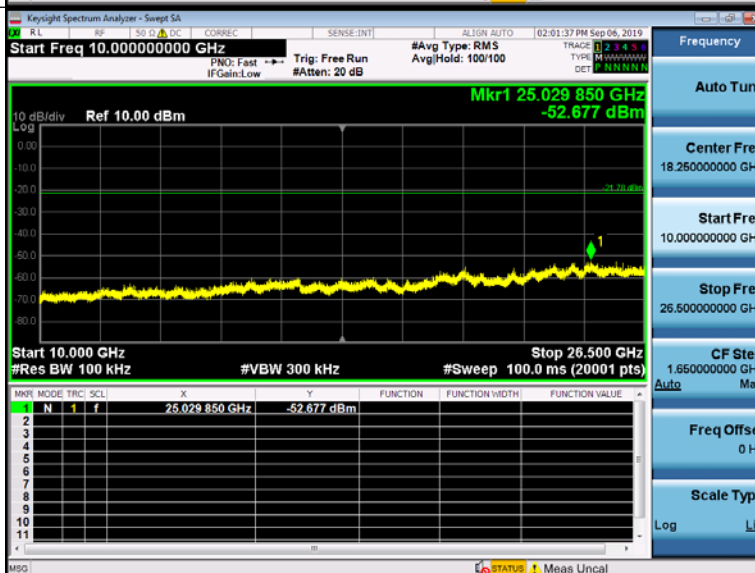
Reference

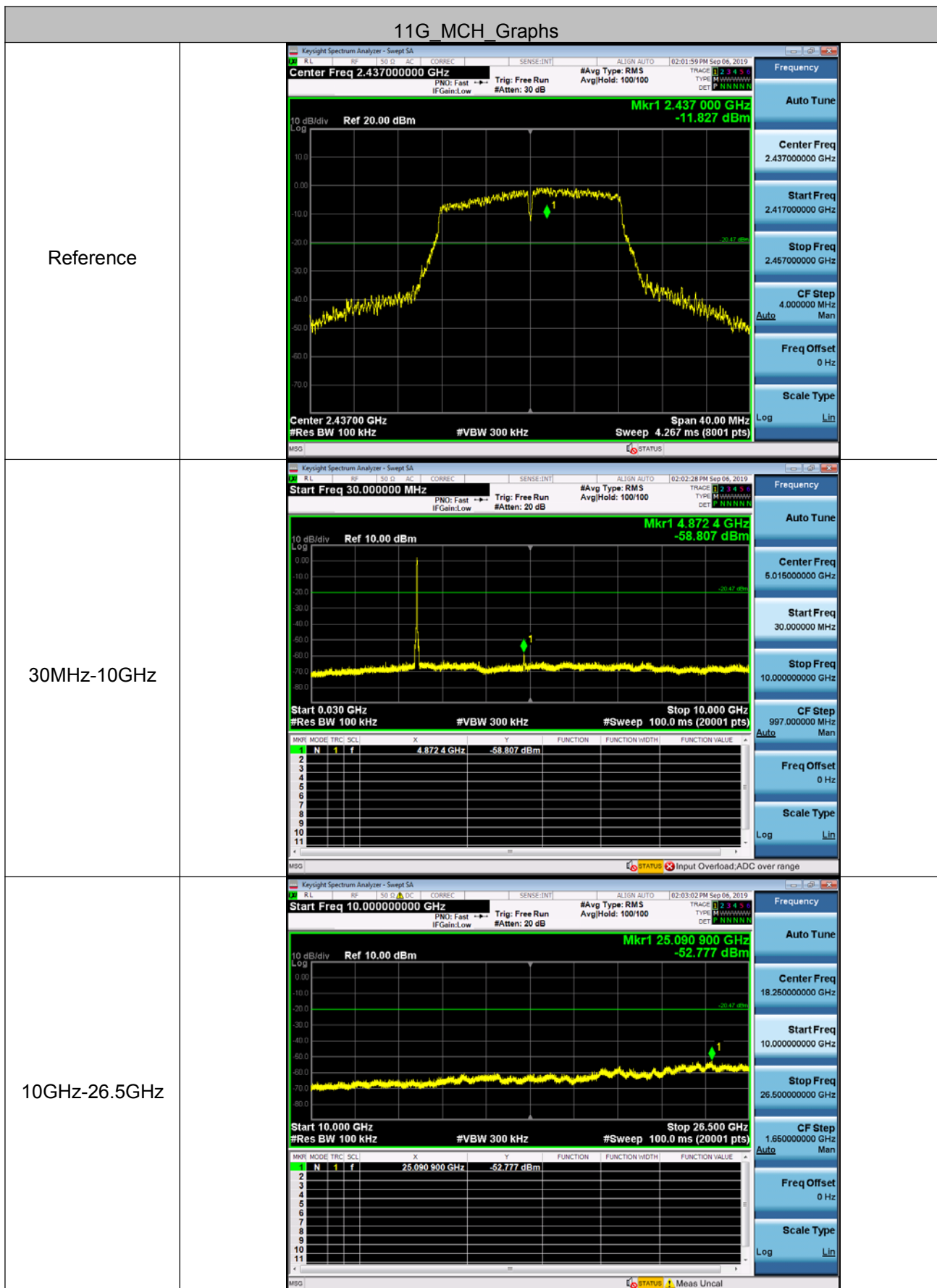


30MHz-10GHz



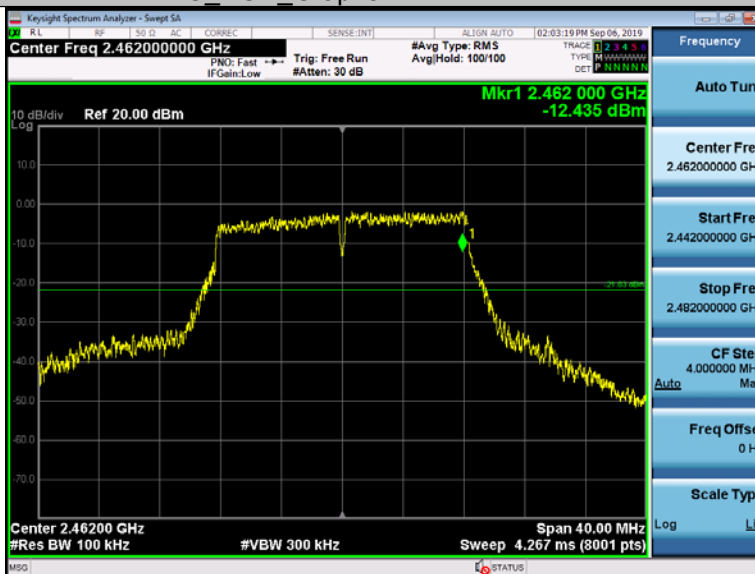
10GHz-26.5GHz



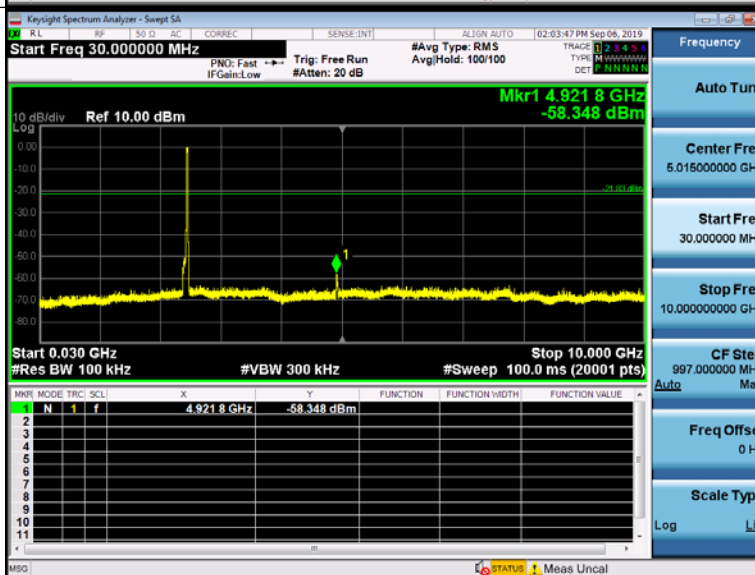


11G_HCH_Graphs

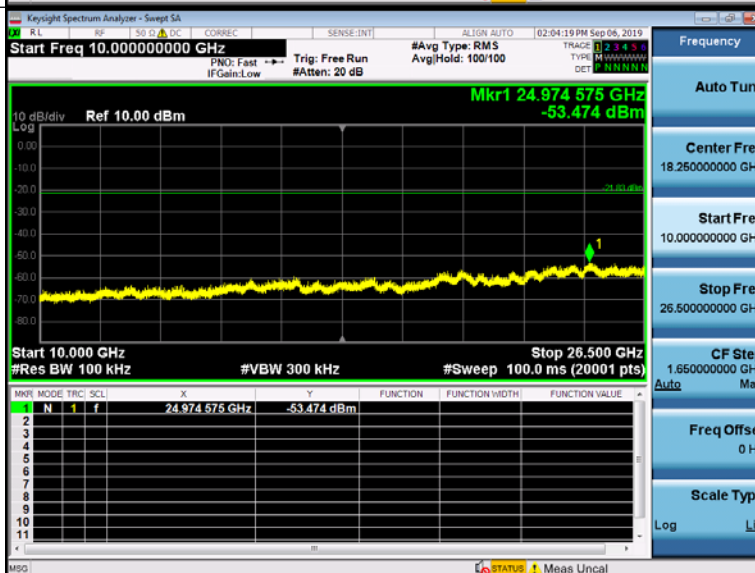
Reference



30MHz-10GHz

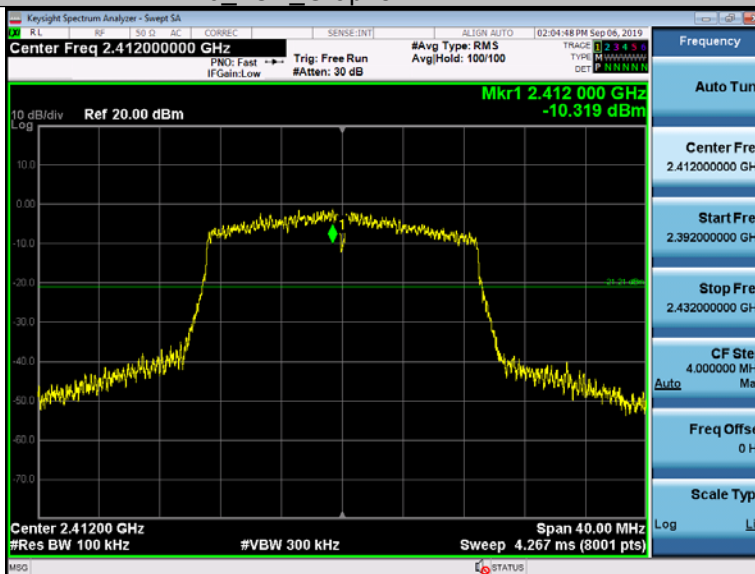


10GHz-26.5GHz

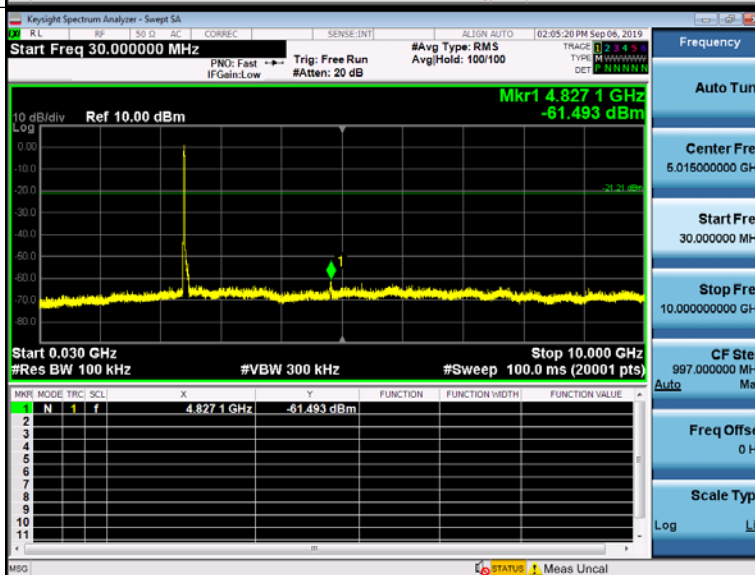


11N20_LCH_Graphs

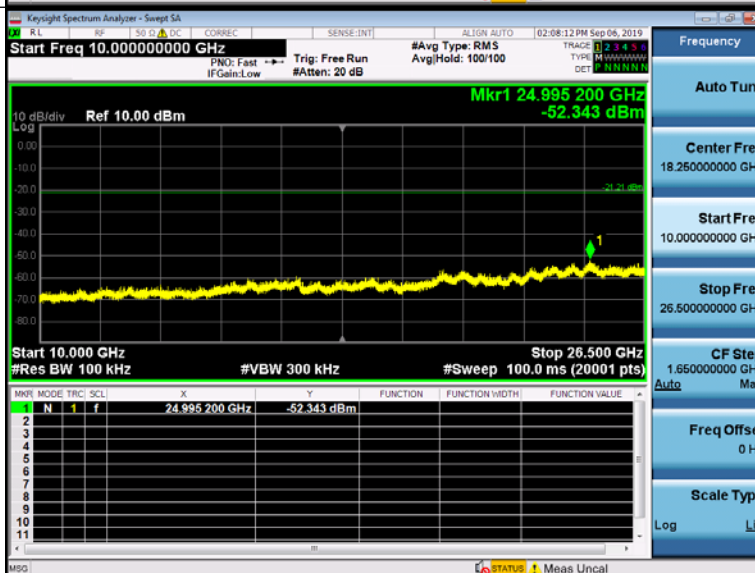
Reference



30MHz-10GHz

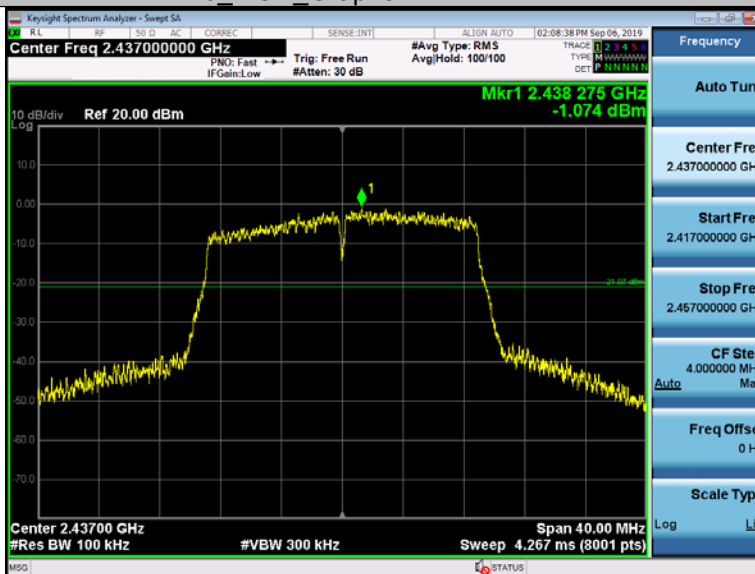


10GHz-26.5GHz

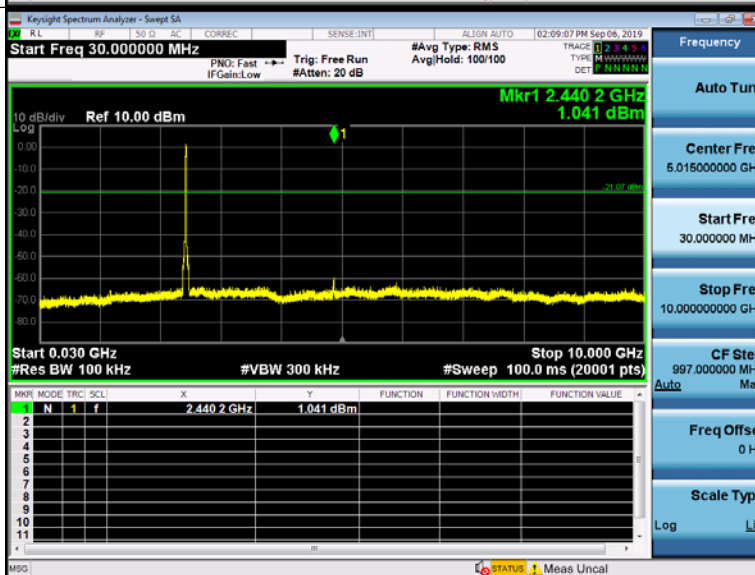


11N20_MCH_Graphs

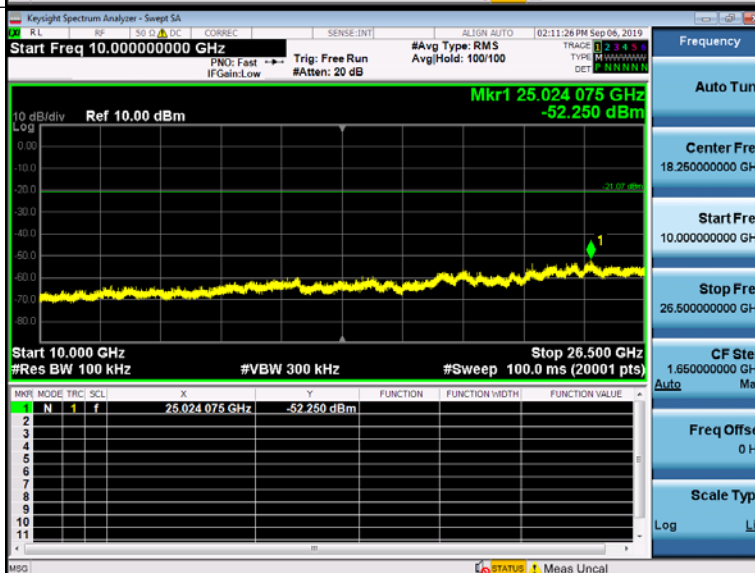
Reference



30MHz-10GHz

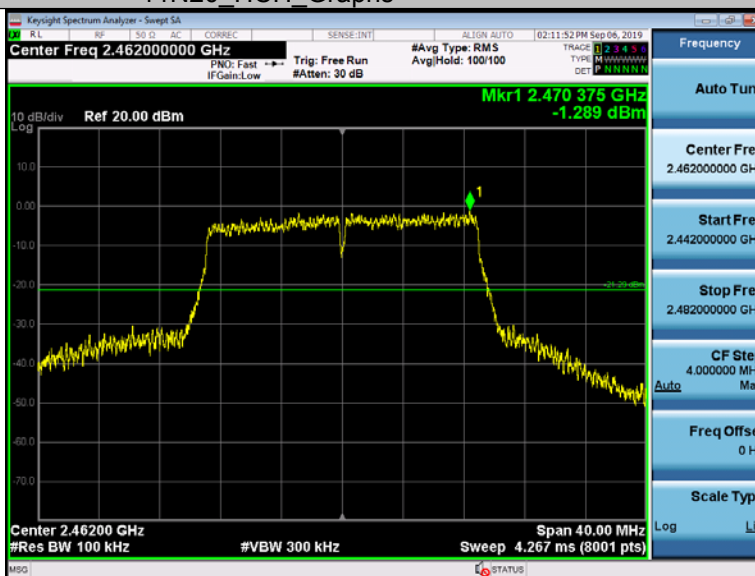


10GHz-26.5GHz

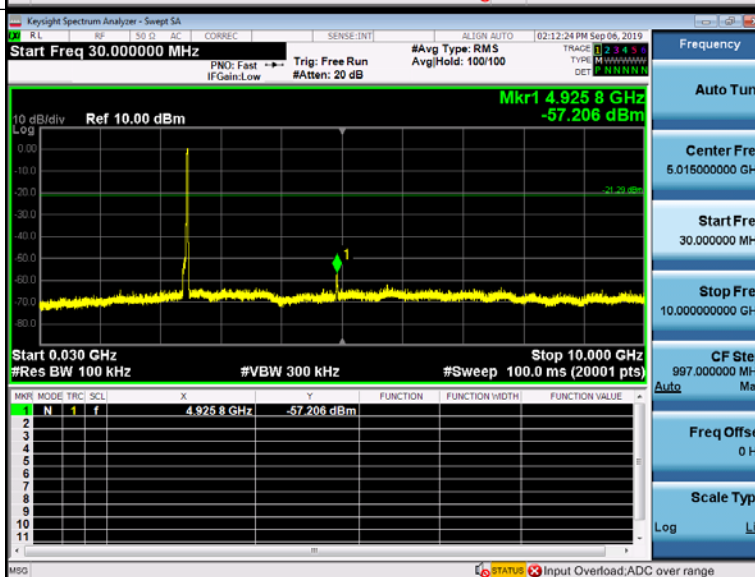


11N20_HCH_Graphs

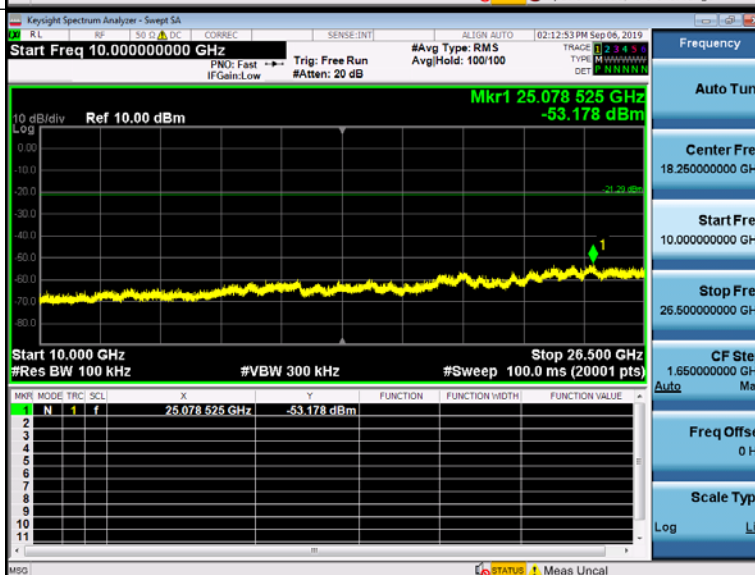
Reference



30MHz-10GHz

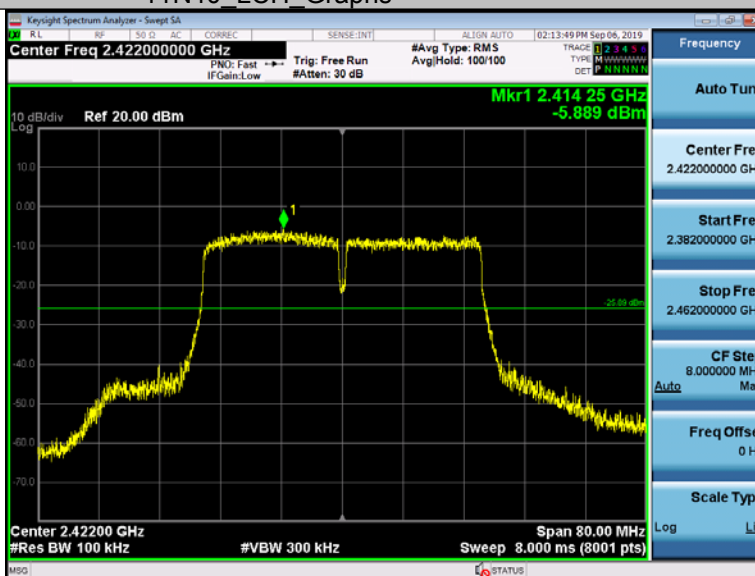


10GHz-26.5GHz

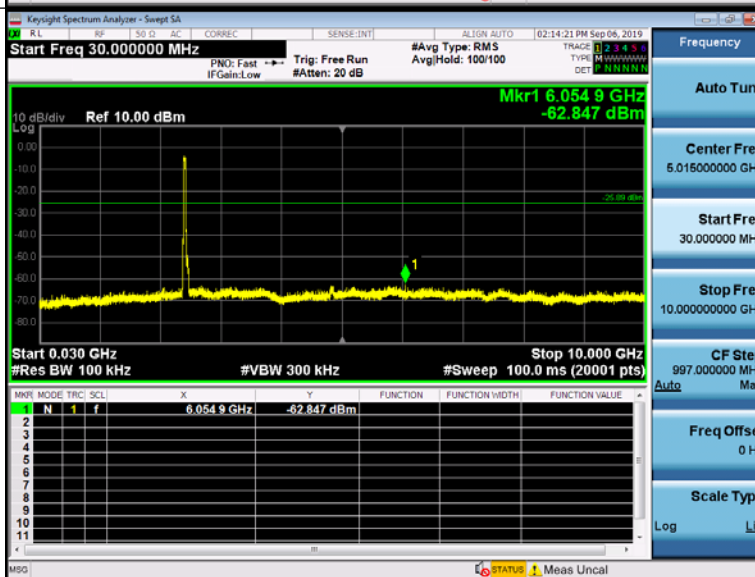


11N40_LCH_Graphs

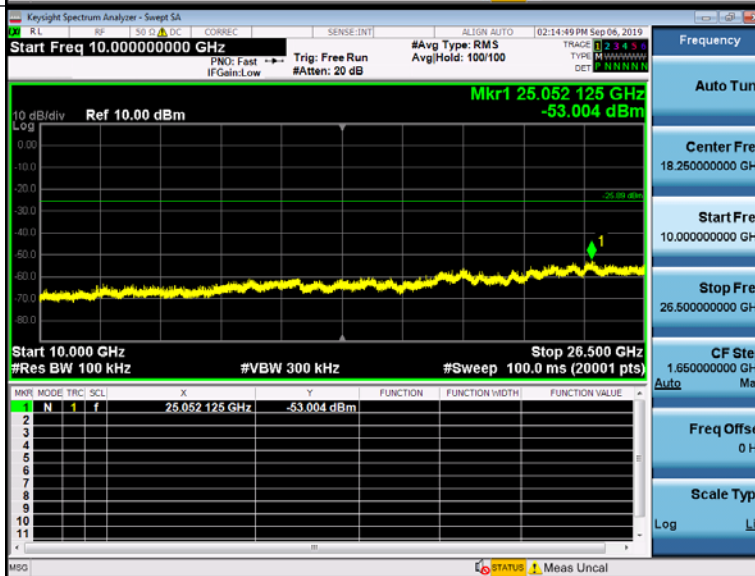
Reference



30MHz-10GHz

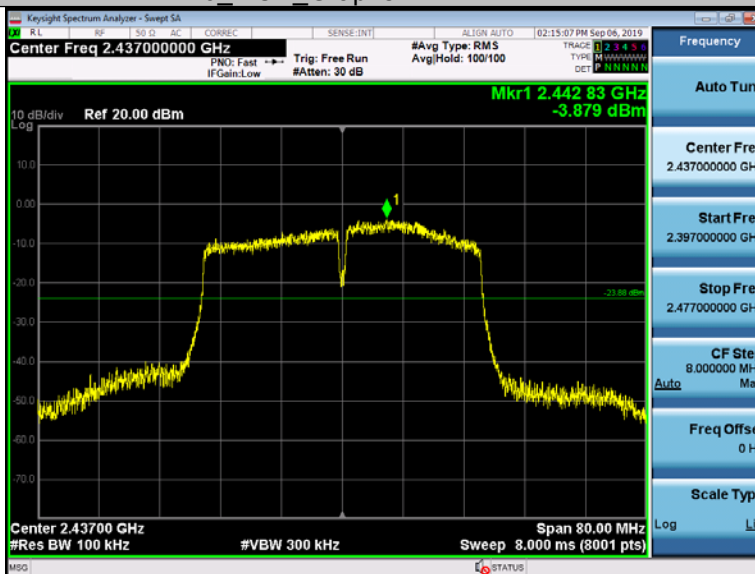


10GHz-26.5GHz

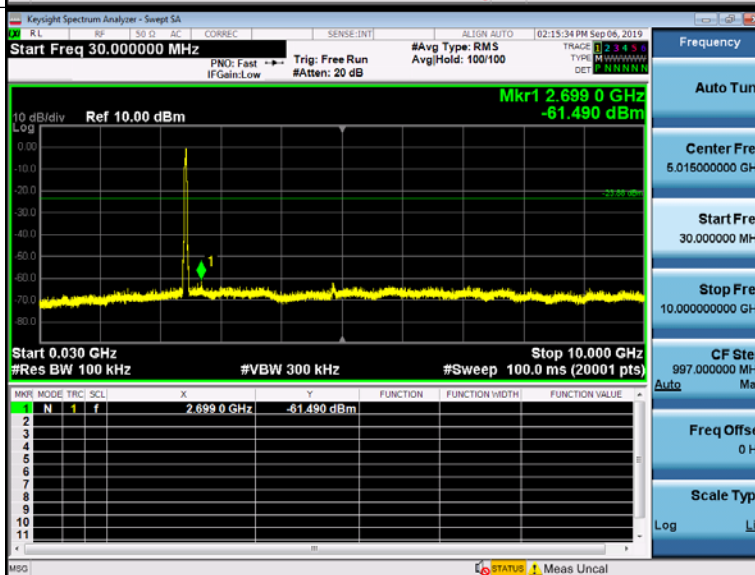


11N40_MCH_Graphs

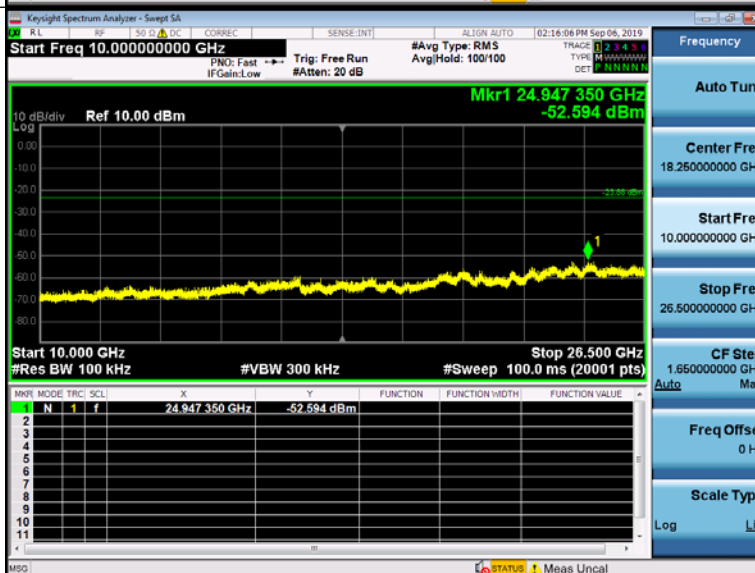
Reference



30MHz-10GHz

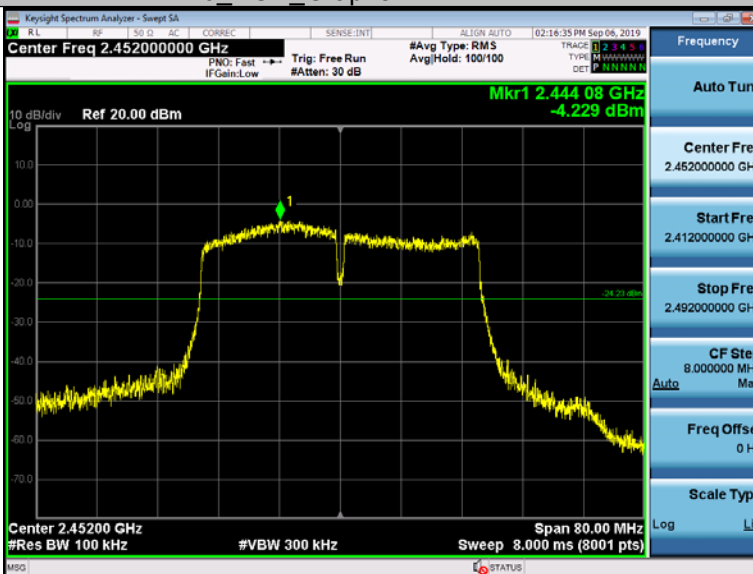


10GHz-26.5GHz

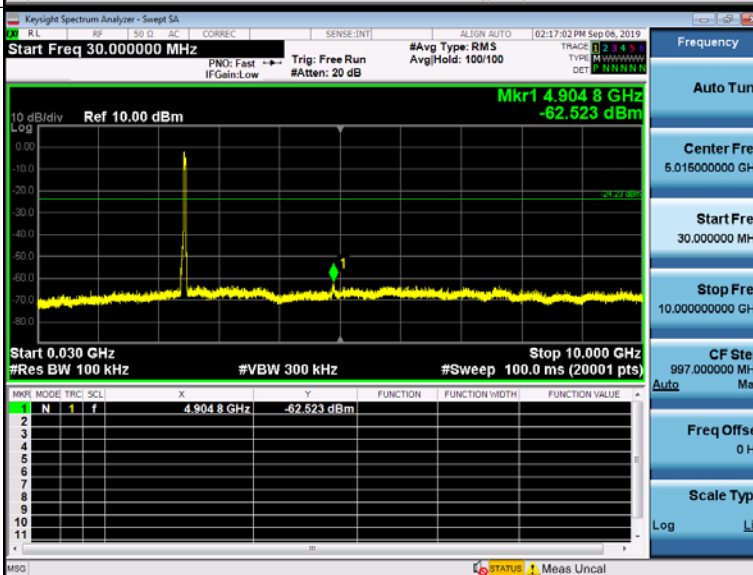


11N40_HCH_Graphs

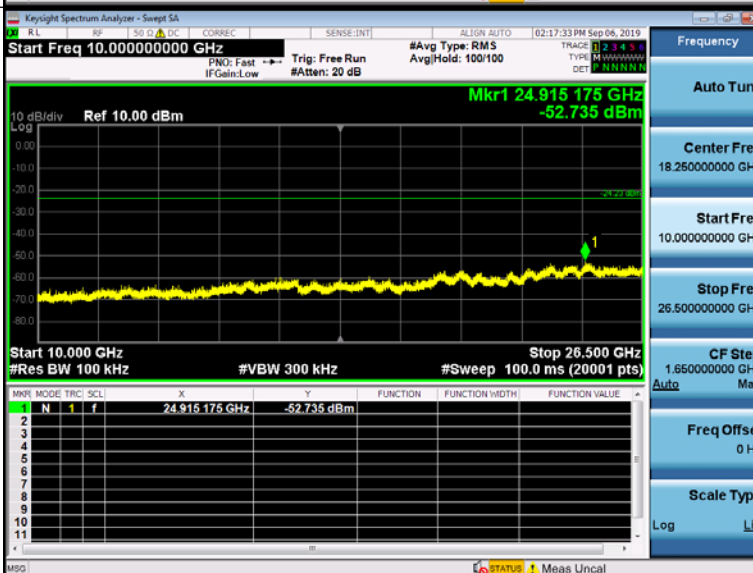
Reference



30MHz-10GHz



10GHz-26.5GHz



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.

5.8 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:

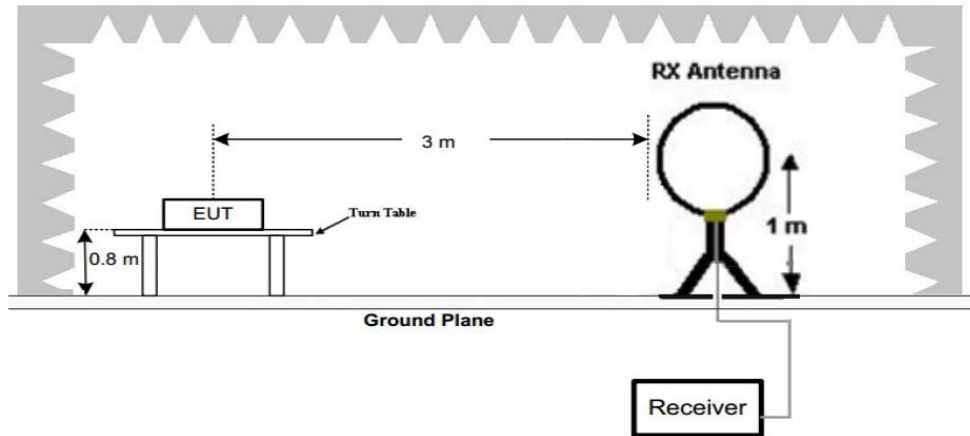


Figure 1. Below 30MHz

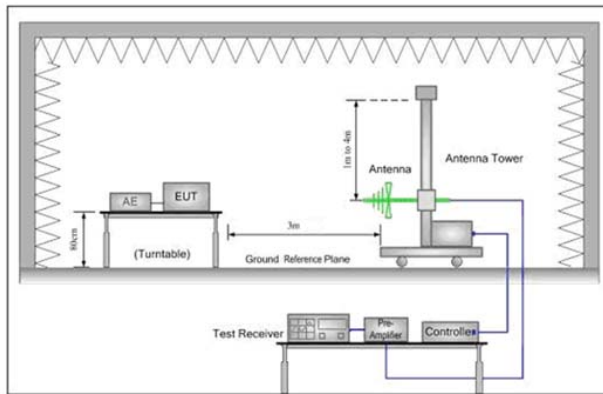


Figure 2. 30MHz to 1GHz

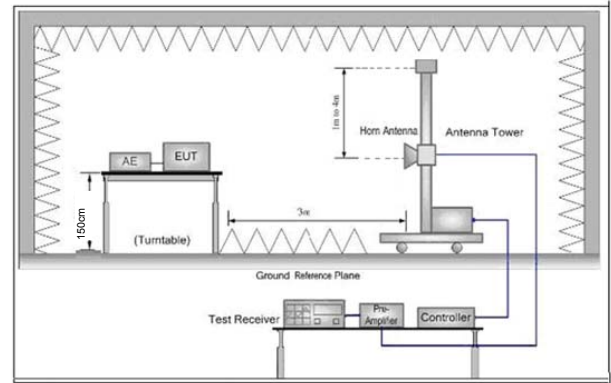


Figure 3. Above 1 GHz

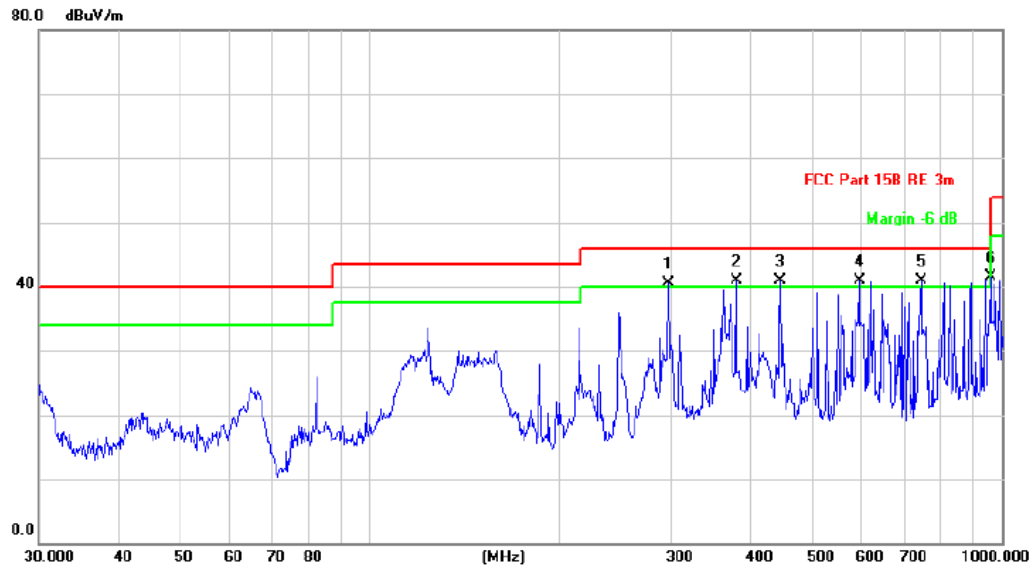
Test Procedure:

- 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.

	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. 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:	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) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.
Test Results:	Pass

5.8.1 Radiated emission below 1GHz

30MHz~1GHz		
Test mode:	Transmitting	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	!	297.2241	51.93	-11.47	40.46	46.00	-5.54	QP		
2	!	379.9141	50.32	-9.38	40.94	46.00	-5.06	QP		
3	!	446.4141	48.58	-7.73	40.85	46.00	-5.15	QP		
4	!	595.1326	45.92	-5.01	40.91	46.00	-5.09	QP		
5	!	744.8659	43.41	-2.48	40.93	46.00	-5.07	QP		
6	*	958.7943	41.09	0.33	41.42	46.00	-4.58	QP		

Remark:

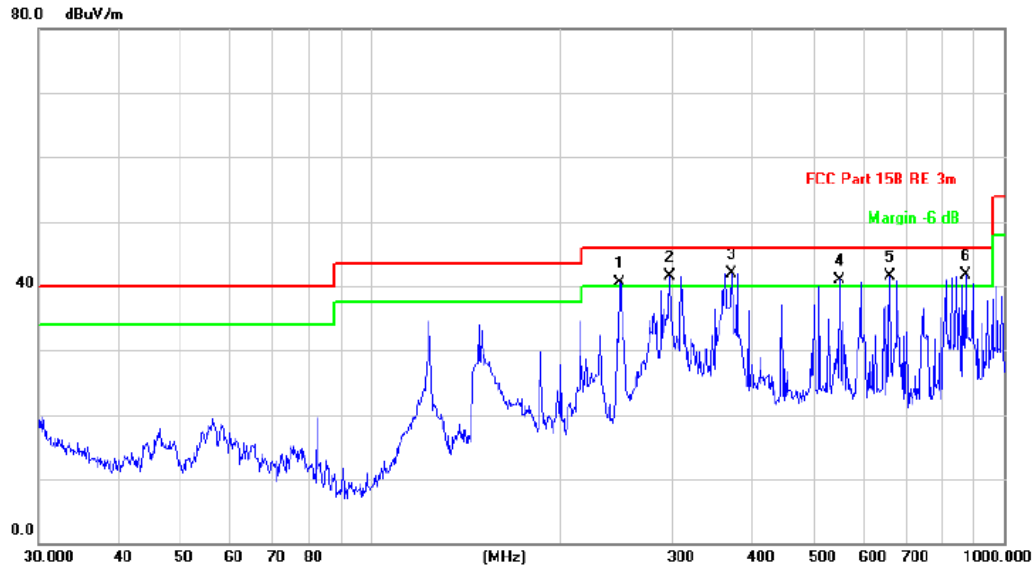
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	!	247.6819	53.71	-13.30	40.41	46.00	-5.59	QP		
2	!	297.2241	52.77	-11.18	41.59	46.00	-4.41	QP		
3	*	372.0045	51.30	-9.37	41.93	46.00	-4.07	QP		
4	!	550.9479	46.48	-5.48	41.00	46.00	-5.00	QP		
5	!	661.1503	44.69	-3.21	41.48	46.00	-4.52	QP		
6	!	869.1299	41.69	-0.07	41.62	46.00	-4.38	QP		

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.

5.8.2 Transmitter emission above 1GHz

Test mode:		802.11b(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4824.000	59.93	-4.26	55.67	74	-18.33	PK	H
4824.000	47.64	-4.26	43.38	54	-10.62	AV	H
7236.000	59.76	1.18	60.94	74	-13.06	PK	H
7236.000	42.92	1.18	44.10	54	-9.90	AV	H
4824.000	61.40	-4.26	57.14	74	-16.86	PK	V
4824.000	47.18	-4.26	42.92	54	-11.08	AV	V
7236.000	59.72	1.18	60.90	74	-13.10	PK	V
7236.000	42.07	1.18	43.25	54	-10.75	AV	V

Test mode:		802.11b(1Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874.000	61.56	-4.12	57.44	74	-16.56	PK	H
4874.000	46.79	-4.12	42.67	54	-11.33	AV	H
7311.000	60.96	1.46	62.42	74	-11.58	PK	H
7311.000	41.52	1.46	42.98	54	-11.02	AV	H
4874.000	61.09	-4.12	56.97	74	-17.03	PK	V
4874.000	46.52	-4.12	42.40	54	-11.60	AV	V
7311.000	60.17	1.46	61.63	74	-12.37	PK	V
7311.000	41.02	1.46	42.48	54	-11.52	AV	V

Test mode:		802.11b(1Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4924.000	62.36	-4.03	58.33	74	-15.67	PK	H
4924.000	46.24	-4.03	42.21	54	-11.79	AV	H
7386.000	59.84	1.66	61.50	74	-12.50	PK	H
7386.000	41.85	1.66	43.51	54	-10.49	AV	H
4924.000	60.16	-4.03	56.13	74	-17.87	PK	V
4924.000	46.69	-4.03	42.66	54	-11.34	AV	V
7386.000	60.92	1.66	62.58	74	-11.42	PK	V
7386.000	41.35	1.66	43.01	54	-10.99	AV	V

Test mode:		802.11g(6Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4824.000	56.41	-4.26	52.15	74	-21.85	PK	H
4824.000	43.59	-4.26	39.33	54	-14.67	AV	H
7236.000	55.14	1.18	56.32	74	-17.68	PK	H
7236.000	41.43	1.18	42.61	54	-11.39	AV	H
4824.000	58.72	-4.26	54.46	74	-19.54	PK	V
4824.000	44.50	-4.26	40.24	54	-13.76	AV	V
7236.000	55.93	1.18	57.11	74	-16.89	PK	V
7236.000	41.41	1.18	42.59	54	-11.41	AV	V

Test mode:		802.11g(6Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874.000	58.07	-4.12	53.95	74	-20.05	PK	H
4874.000	44.22	-4.12	40.10	54	-13.90	AV	H
7311.000	54.25	1.46	55.71	74	-18.29	PK	H
7311.000	41.12	1.46	42.58	54	-11.42	AV	H
4874.000	56.14	-4.12	52.02	74	-21.98	PK	V
4874.000	43.56	-4.12	39.44	54	-14.56	AV	V
7311.000	54.68	1.46	56.14	74	-17.86	PK	V
7311.000	42.50	1.46	43.96	54	-10.04	AV	V

Test mode:		802.11g(6Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4924.000	56.76	-4.03	52.73	74	-21.27	PK	H
4924.000	43.89	-4.03	39.86	54	-14.14	AV	H
7386.000	55.86	1.66	57.52	74	-16.48	PK	H
7386.000	42.73	1.66	44.39	54	-9.61	AV	H
4924.000	57.64	-4.03	53.61	74	-20.39	PK	V
4924.000	43.63	-4.03	39.60	54	-14.40	AV	V
7386.000	55.57	1.66	57.23	74	-16.77	PK	V
7386.000	42.32	1.66	43.98	54	-10.02	AV	V

Test mode:		802.11n(6.5Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4824.000	59.06	-4.26	54.80	74	-19.20	PK	H
4824.000	44.37	-4.26	40.11	54	-13.89	AV	H
7236.000	55.55	1.18	56.73	74	-17.27	PK	H
7236.000	42.59	1.18	43.77	54	-10.23	AV	H
4824.000	59.30	-4.26	55.04	74	-18.96	PK	V
4824.000	43.28	-4.26	39.02	54	-14.98	AV	V
7236.000	54.00	1.18	55.18	74	-18.82	PK	V
7236.000	42.07	1.18	43.25	54	-10.75	AV	V

Test mode:		802.11n(6.5Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874.000	55.73	-4.12	51.61	74	-22.39	PK	H
4874.000	44.26	-4.12	40.14	54	-13.86	AV	H
7311.000	55.06	1.46	56.52	74	-17.48	PK	H
7311.000	41.54	1.46	43.00	54	-11.00	AV	H
4874.000	59.16	-4.12	55.04	74	-18.96	PK	V
4874.000	44.55	-4.12	40.43	54	-13.57	AV	V
7311.000	54.72	1.46	56.18	74	-17.82	PK	V
7311.000	41.77	1.46	43.23	54	-10.77	AV	V

Test mode:		802.11n(6.5Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4924.000	57.85	-4.03	53.82	74	-20.18	PK	H
4924.000	43.91	-4.03	39.88	54	-14.12	AV	H
7386.000	55.76	1.66	57.42	74	-16.58	PK	H
7386.000	41.68	1.66	43.34	54	-10.66	AV	H
4924.000	55.77	-4.03	51.74	74	-22.26	PK	V
4924.000	43.89	-4.03	39.86	54	-14.14	AV	V
7386.000	54.24	1.66	55.90	74	-18.10	PK	V
7386.000	42.18	1.66	43.84	54	-10.16	AV	V

Test mode:		802.11n40(13.5Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4844.000	58.37	-4.2	54.17	74	-19.83	PK	H
4844.000	43.59	-4.2	39.39	54	-14.61	AV	H
7266.000	55.74	1.18	56.92	74	-17.08	PK	H
7266.000	42.65	1.18	43.83	54	-10.17	AV	H
4844.000	57.69	-4.2	53.49	74	-20.51	PK	V
4844.000	44.57	-4.2	40.37	54	-13.63	AV	V
7266.000	55.17	1.18	56.35	74	-17.65	PK	V
7266.000	42.29	1.18	43.47	54	-10.53	AV	V

Test mode:		802.11n40(13.5Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874.000	59.09	-4.12	54.97	74	-19.03	PK	H
4874.000	44.77	-4.12	40.65	54	-13.35	AV	H
7311.000	54.75	1.46	56.21	74	-17.79	PK	H
7311.000	42.17	1.46	43.63	54	-10.37	AV	H
4874.000	58.51	-4.12	54.39	74	-19.61	PK	V
4874.000	44.52	-4.12	40.40	54	-13.60	AV	V
7311.000	54.43	1.46	55.89	74	-18.11	PK	V
7311.000	42.35	1.46	43.81	54	-10.19	AV	V

Test mode:		802.11n40(13.5Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4904.000	58.63	-4.03	54.60	74	-19.40	PK	H
4904.000	44.74	-4.03	40.71	54	-13.29	AV	H
7356.000	55.96	1.66	57.62	74	-16.38	PK	H
7356.000	41.50	1.66	43.16	54	-10.84	AV	H
4904.000	59.62	-4.03	55.59	74	-18.41	PK	V
4904.000	44.44	-4.03	40.41	54	-13.59	AV	V
7356.000	55.02	1.66	56.68	74	-17.32	PK	V
7356.000	41.96	1.66	43.62	54	-10.38	AV	V

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.

5.9 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:			

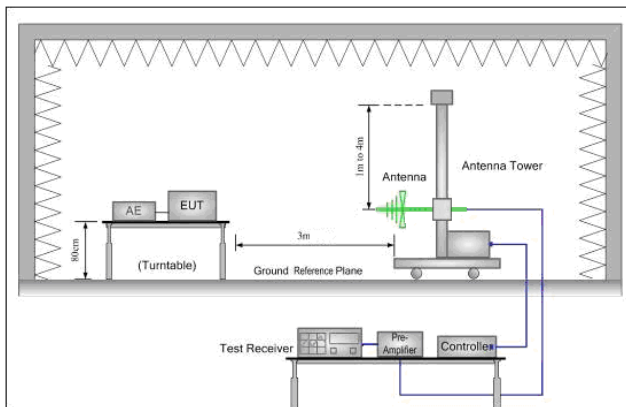


Figure 1. 30MHz to 1GHz

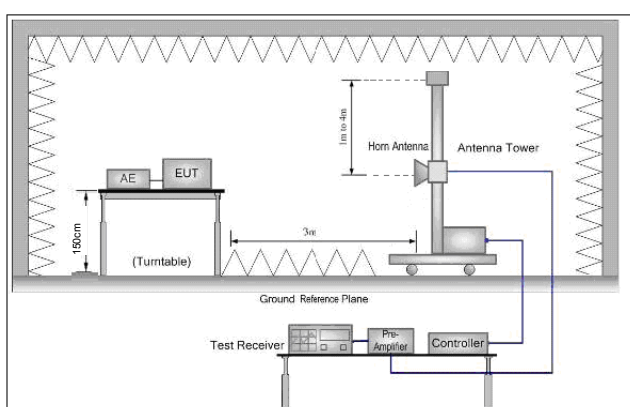


Figure 2. Above 1 GHz

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.

	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 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 Highest channel h. 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:	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.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390.000	61.48	-9.2	52.28	74	-21.72	PK	H
2390.000	47.25	-9.2	38.05	54	-15.95	AV	H
2400.000	60.68	-9.39	51.29	74	-22.71	PK	H
2400.000	42.71	-9.39	33.32	54	-20.68	AV	H
2390.000	60.09	-9.2	50.89	74	-23.11	PK	V
2390.000	47.29	-9.2	38.09	54	-15.91	AV	V
2400.000	60.39	-9.39	51.00	74	-23.00	PK	V
2400.000	41.21	-9.39	31.82	54	-22.18	AV	V

Worse case mode:		802.11b(1Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.500	63.39	-9.29	54.10	74	-19.90	PK	H
2483.500	46.43	-9.29	37.14	54	-16.86	AV	H
2483.500	59.09	-9.29	49.80	74	-24.20	PK	V
2483.500	41.39	-9.29	32.10	54	-21.90	AV	V

Worse case mode:		802.11g(6Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390.000	60.28	-9.2	51.08	74	-22.92	PK	H
2390.000	46.55	-9.2	37.35	54	-16.65	AV	H
2400.000	59.17	-9.39	49.78	74	-24.22	PK	H
2400.000	41.67	-9.39	32.28	54	-21.72	AV	H
2390.000	59.54	-9.2	50.34	74	-23.66	PK	V
2390.000	46.20	-9.2	37.00	54	-17.00	AV	V
2400.000	60.70	-9.39	51.31	74	-22.69	PK	V
2400.000	40.98	-9.39	31.59	54	-22.41	AV	V

Worse case mode:		802.11g(6Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.500	60.35	-9.29	51.06	74	-22.94	PK	H
2483.500	45.97	-9.29	36.68	54	-17.32	AV	H
2483.500	60.06	-9.29	50.77	74	-23.23	PK	V
2483.500	42.88	-9.29	33.59	54	-20.41	AV	V

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390.000	60.09	-9.29	50.80	74	-23.20	PK	H
2390.000	46.00	-9.29	36.71	54	-17.29	AV	H
2400.000	60.56	-9.29	51.27	74	-22.73	PK	H
2400.000	41.13	-9.29	31.84	54	-22.16	AV	H
2390.000	62.46	-9.29	53.17	74	-20.83	PK	V
2390.000	46.22	-9.29	36.93	54	-17.07	AV	V
2400.000	60.31	-9.29	51.02	74	-22.98	PK	V
2400.000	41.39	-9.29	32.10	54	-21.90	AV	V

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.500	62.98	-9.29	53.69	74	-20.31	PK	H
2483.500	46.02	-9.29	36.73	54	-17.27	AV	H
2483.500	59.60	-9.29	50.31	74	-23.69	PK	V
2483.500	41.66	-9.29	32.37	54	-21.63	AV	V

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390.000	59.69	-9.2	50.49	74	-23.51	PK	H
2390.000	46.63	-9.2	37.43	54	-16.57	AV	H
2400.000	60.09	-9.39	50.70	74	-23.30	PK	H
2400.000	42.41	-9.39	33.02	54	-20.98	AV	H
2390.000	60.49	-9.2	51.29	74	-22.71	PK	V
2390.000	47.22	-9.2	38.02	54	-15.98	AV	V
2400.000	59.36	-9.39	49.97	74	-24.03	PK	V
2400.000	41.52	-9.39	32.13	54	-21.87	AV	V

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.500	62.96	-9.29	53.67	74	-20.33	PK	H
2483.500	46.76	-9.29	37.47	54	-16.53	AV	H
2483.500	60.60	-9.29	51.31	74	-22.69	PK	V
2483.500	42.84	-9.29	33.55	54	-20.45	AV	V

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

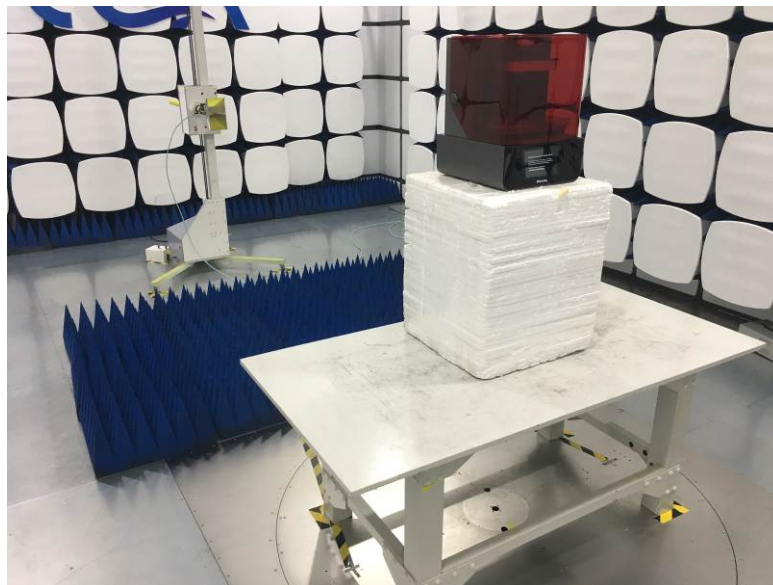
Below 30MHz



30MHz~1GHz



Above 1GHz



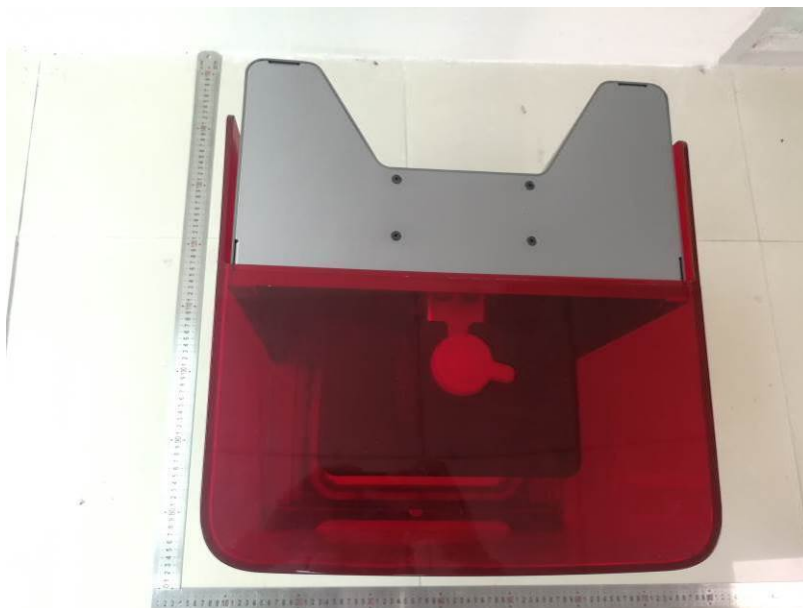
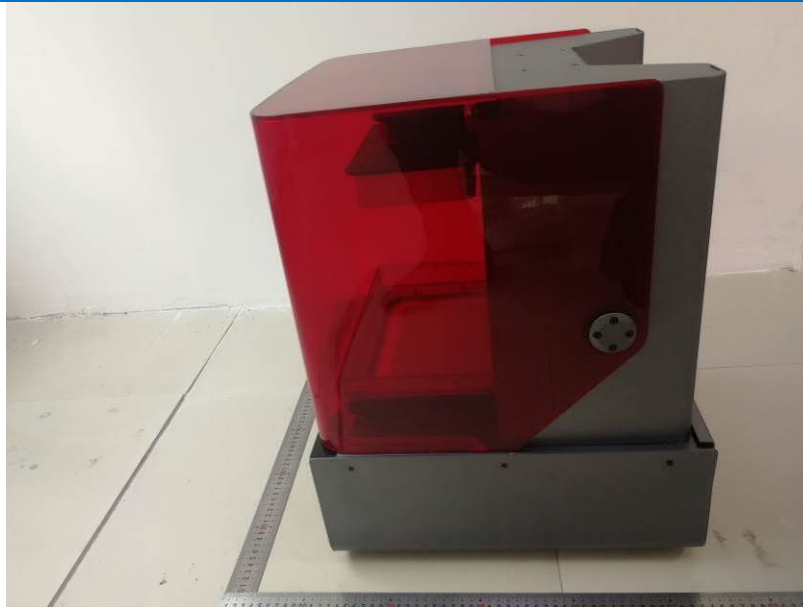
6.2 Conducted Emission



7 Photographs - EUT Constructional Details

External Photos



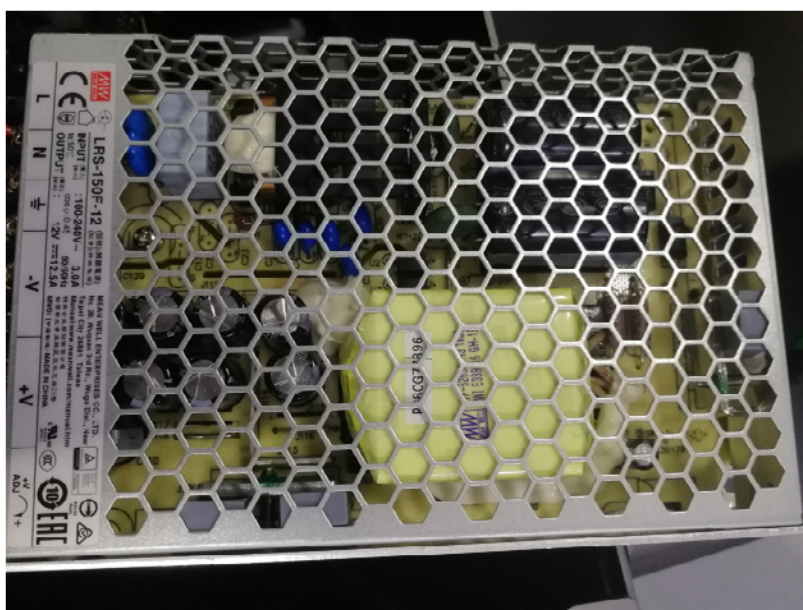


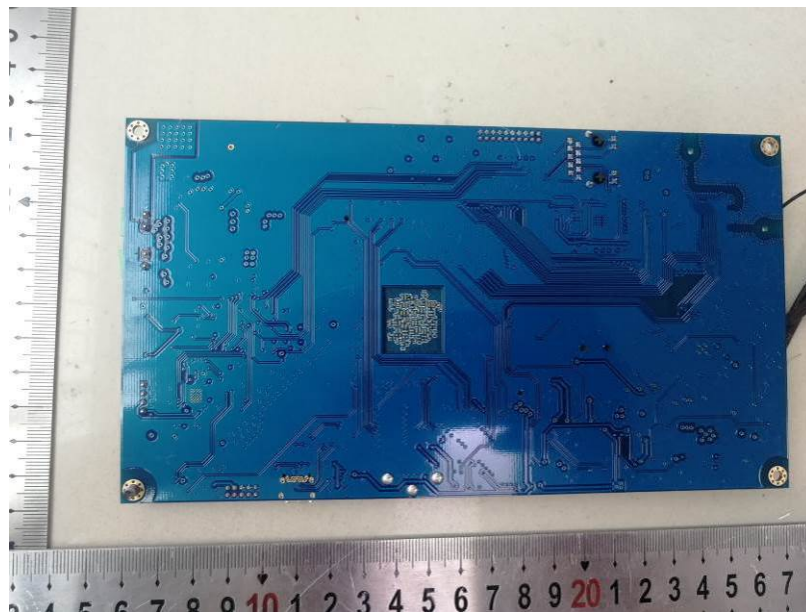


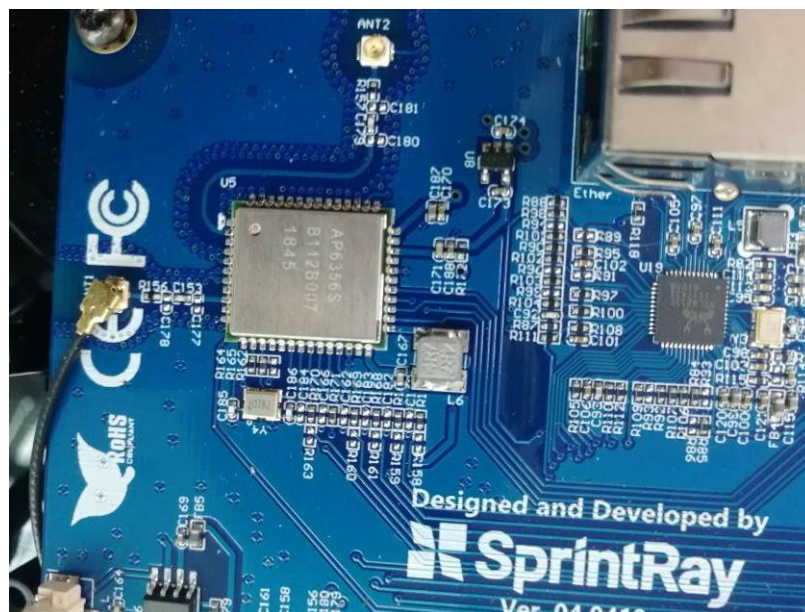


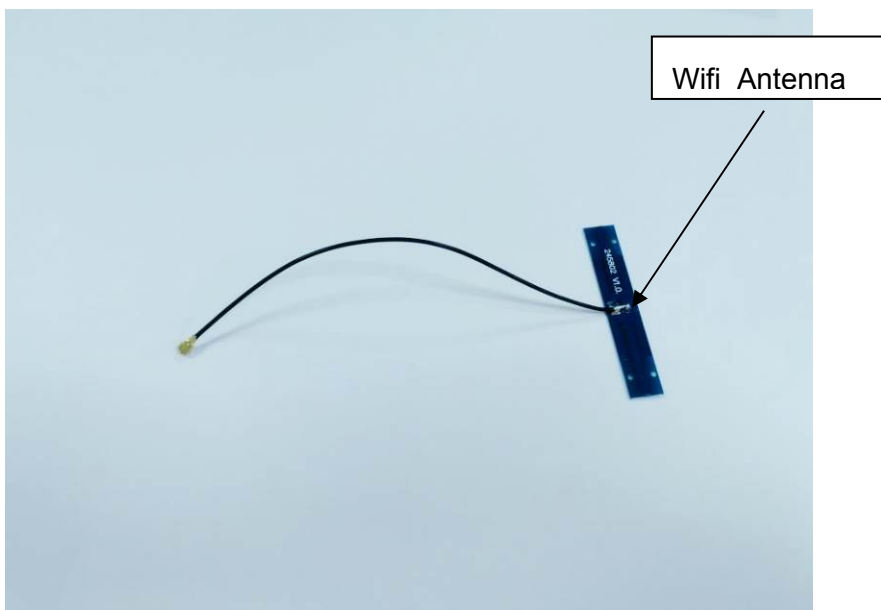
Internal Photos

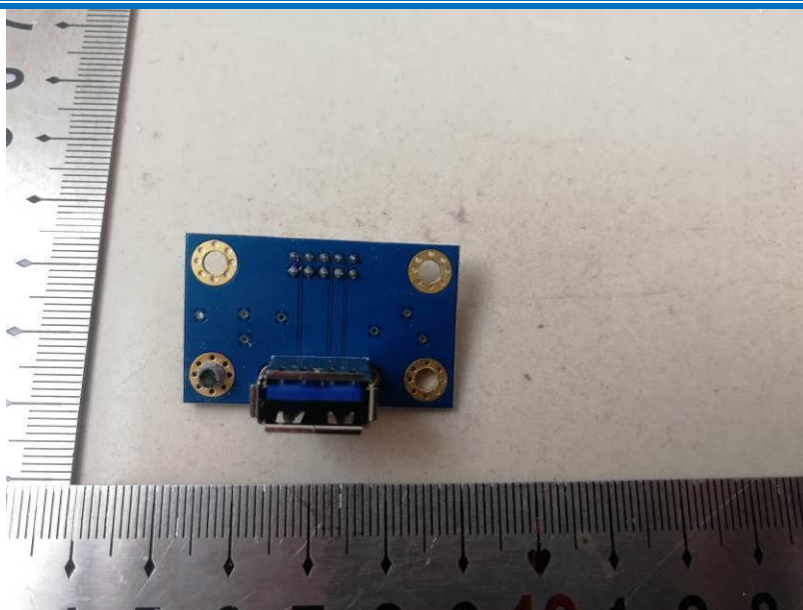


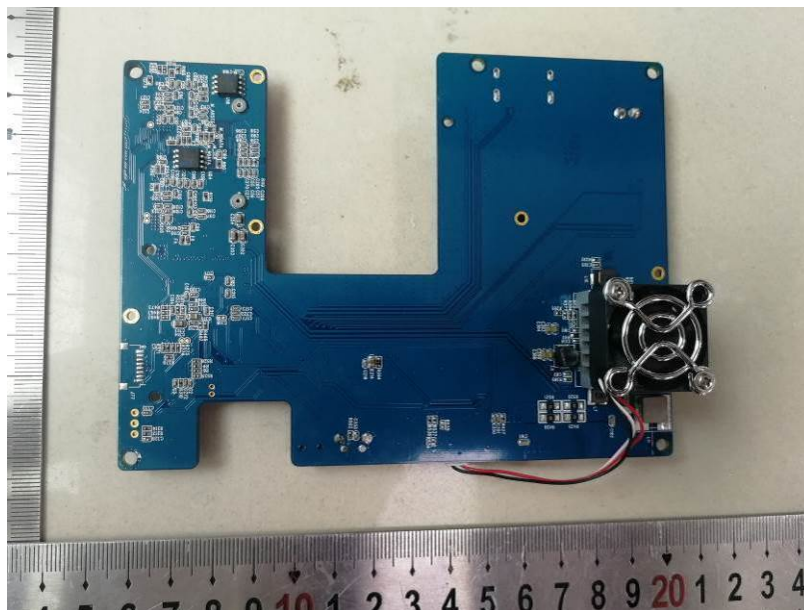
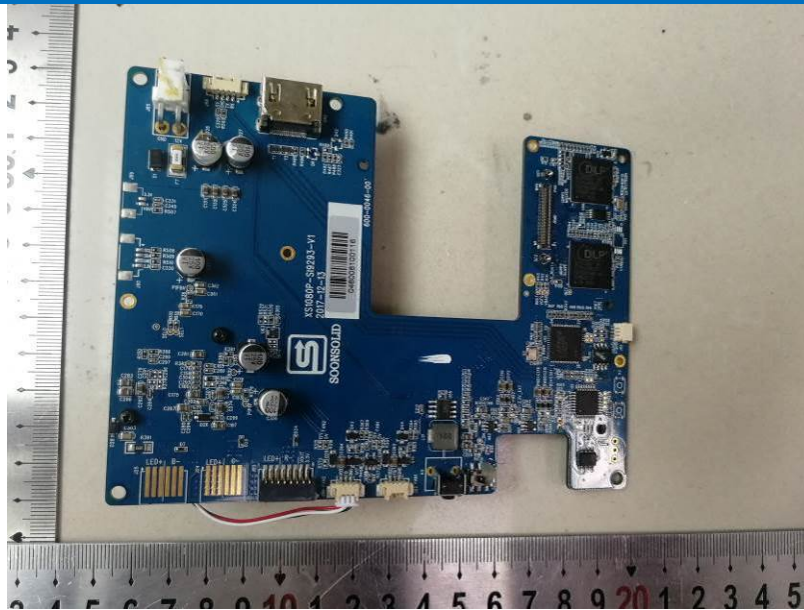












THE END