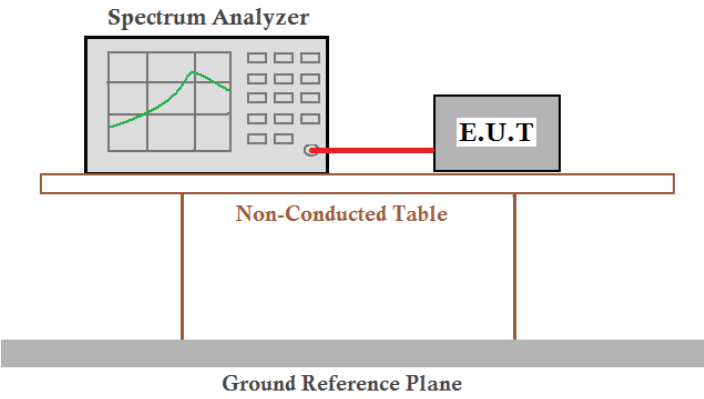
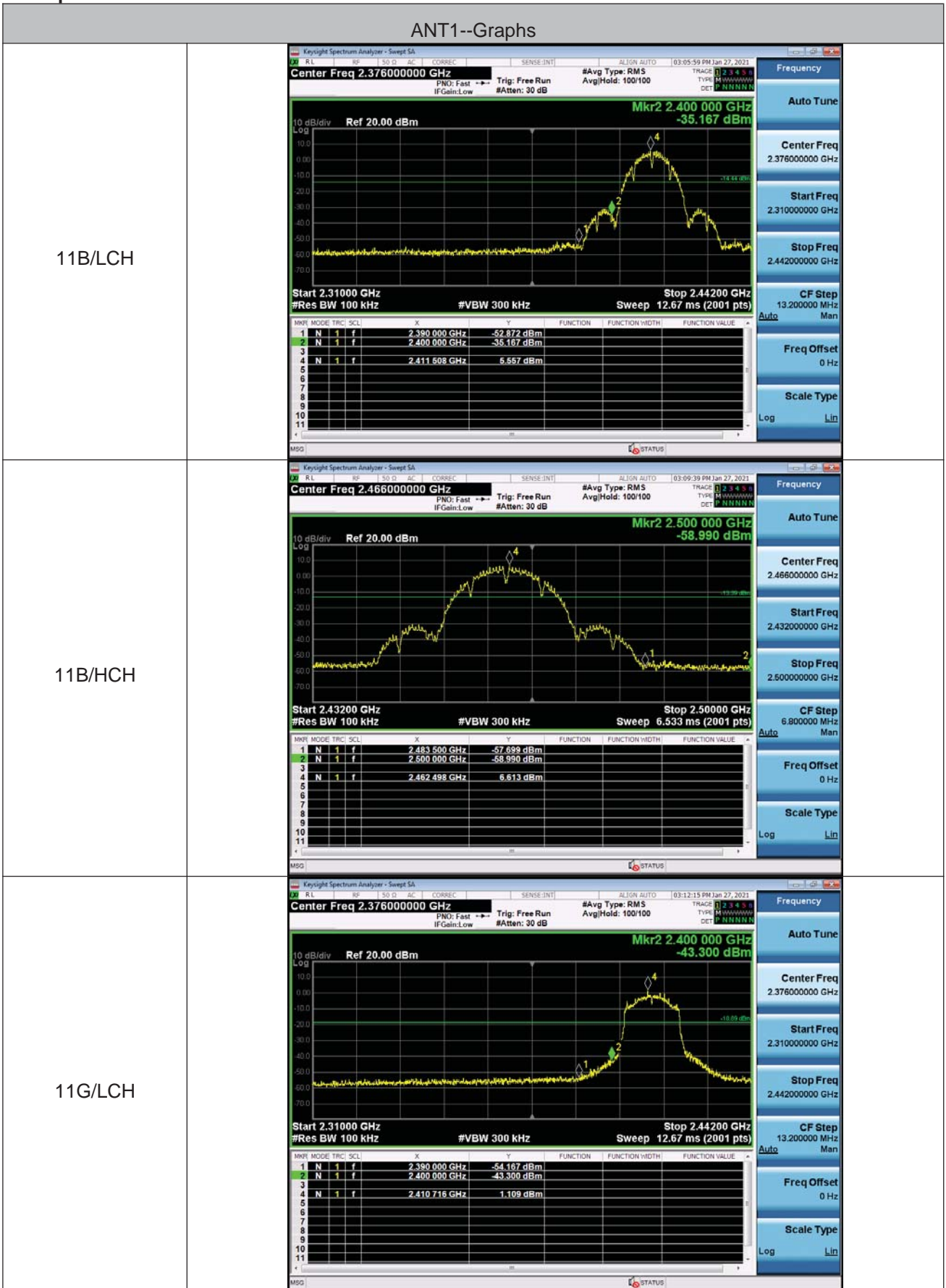


## 6.6 Band-edge for RF Conducted Emissions

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:	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; MCS0Mbps of rate is the worst case of 802.11n(HT20)/n(HT40); 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 20 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 plot as follows:

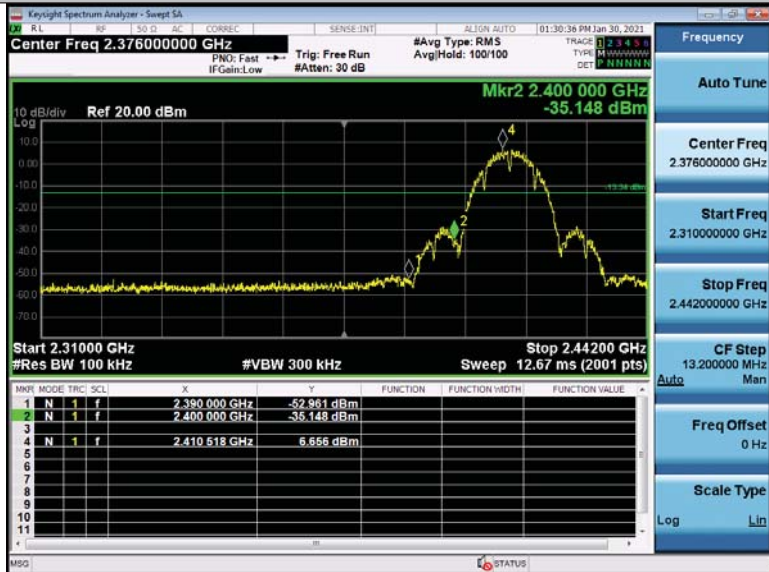


<p>11G/HCH</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.46600000 GHz</p> <p>Start Freq 2.43200000 GHz</p> <p>Stop Freq 2.50000000 GHz</p> <p>CF Step 6.800000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Scale Type Log</p>
<p>11N20/LCH</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.37600000 GHz</p> <p>Start Freq 2.31000000 GHz</p> <p>Stop Freq 2.44200000 GHz</p> <p>CF Step 13.200000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Scale Type Log</p>
<p>11N20/HCH</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.46600000 GHz</p> <p>Start Freq 2.43200000 GHz</p> <p>Stop Freq 2.50000000 GHz</p> <p>CF Step 6.800000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Scale Type Log</p>



ANT2--Graphs

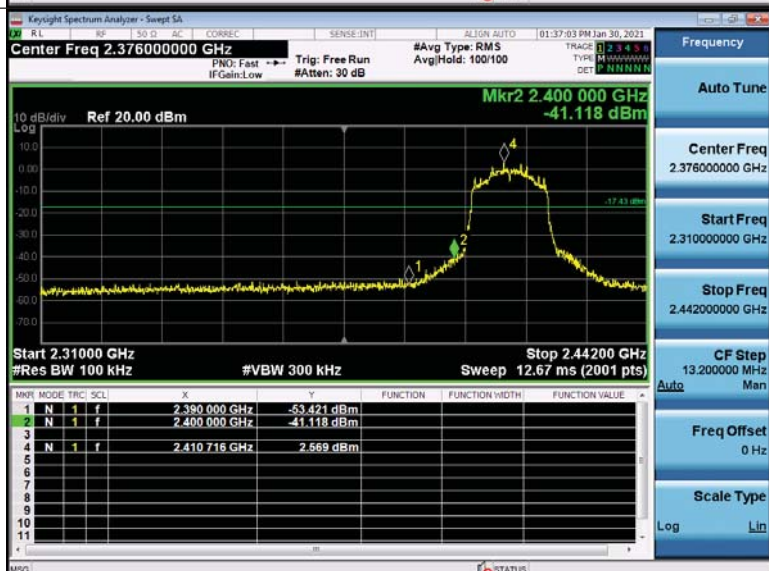
11B/LCH



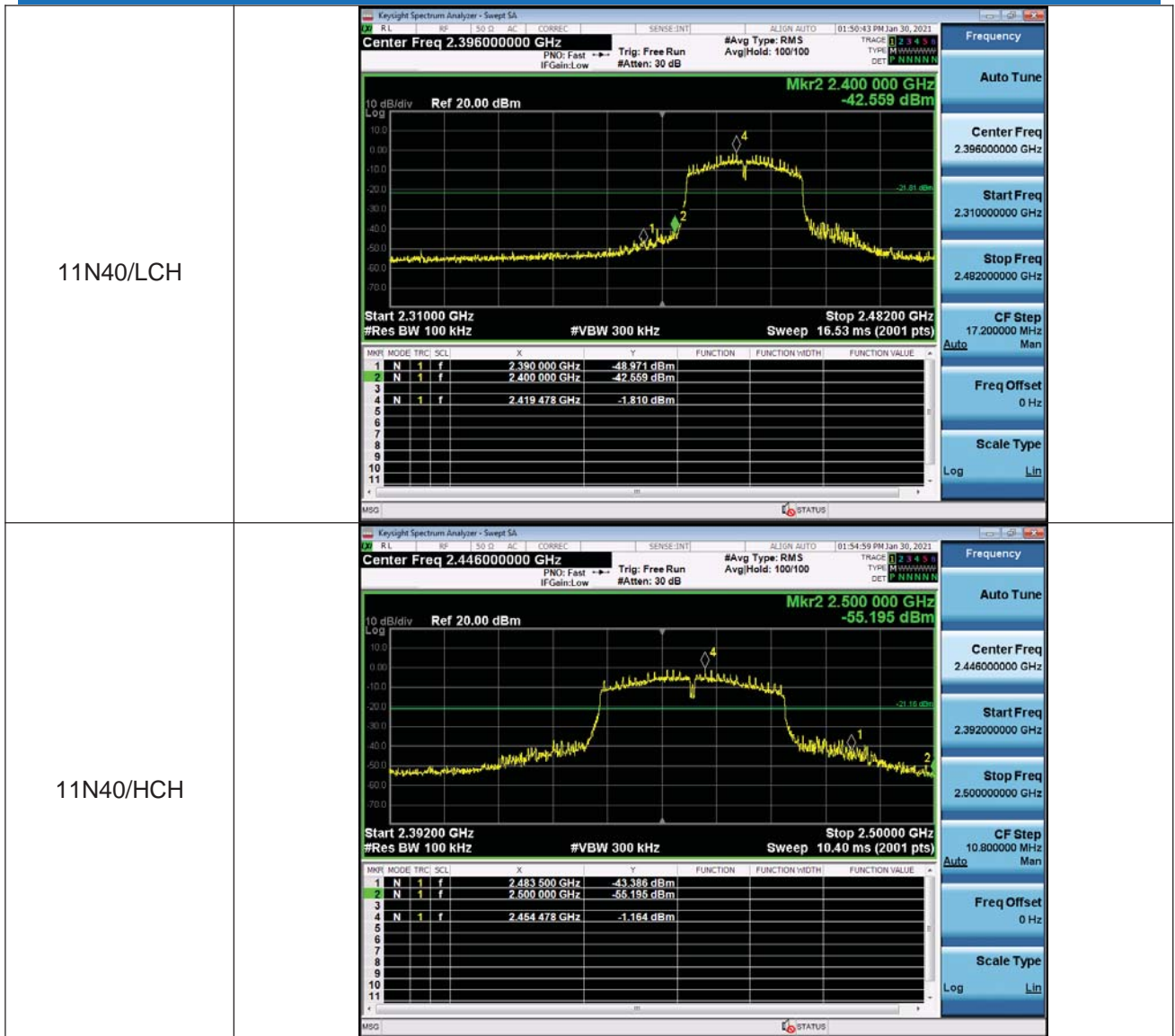
11B/HCH



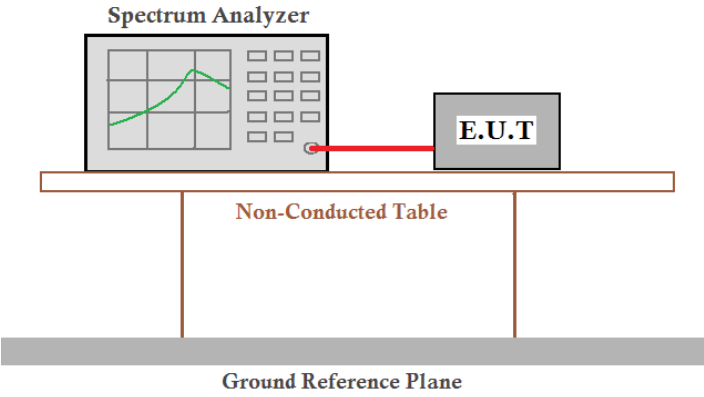
11G/LCH



<p>11G/HCH</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.46600000 GHz</p> <p>Start Freq 2.43200000 GHz</p> <p>Stop Freq 2.50000000 GHz</p> <p>CF Step 6.800000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Scale Type Log</p>
<p>11N20/LCH</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.37600000 GHz</p> <p>Start Freq 2.31000000 GHz</p> <p>Stop Freq 2.44200000 GHz</p> <p>CF Step 13.200000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Scale Type Log</p>
<p>11N20/HCH</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.46600000 GHz</p> <p>Start Freq 2.43200000 GHz</p> <p>Stop Freq 2.50000000 GHz</p> <p>CF Step 6.800000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Scale Type Log</p>

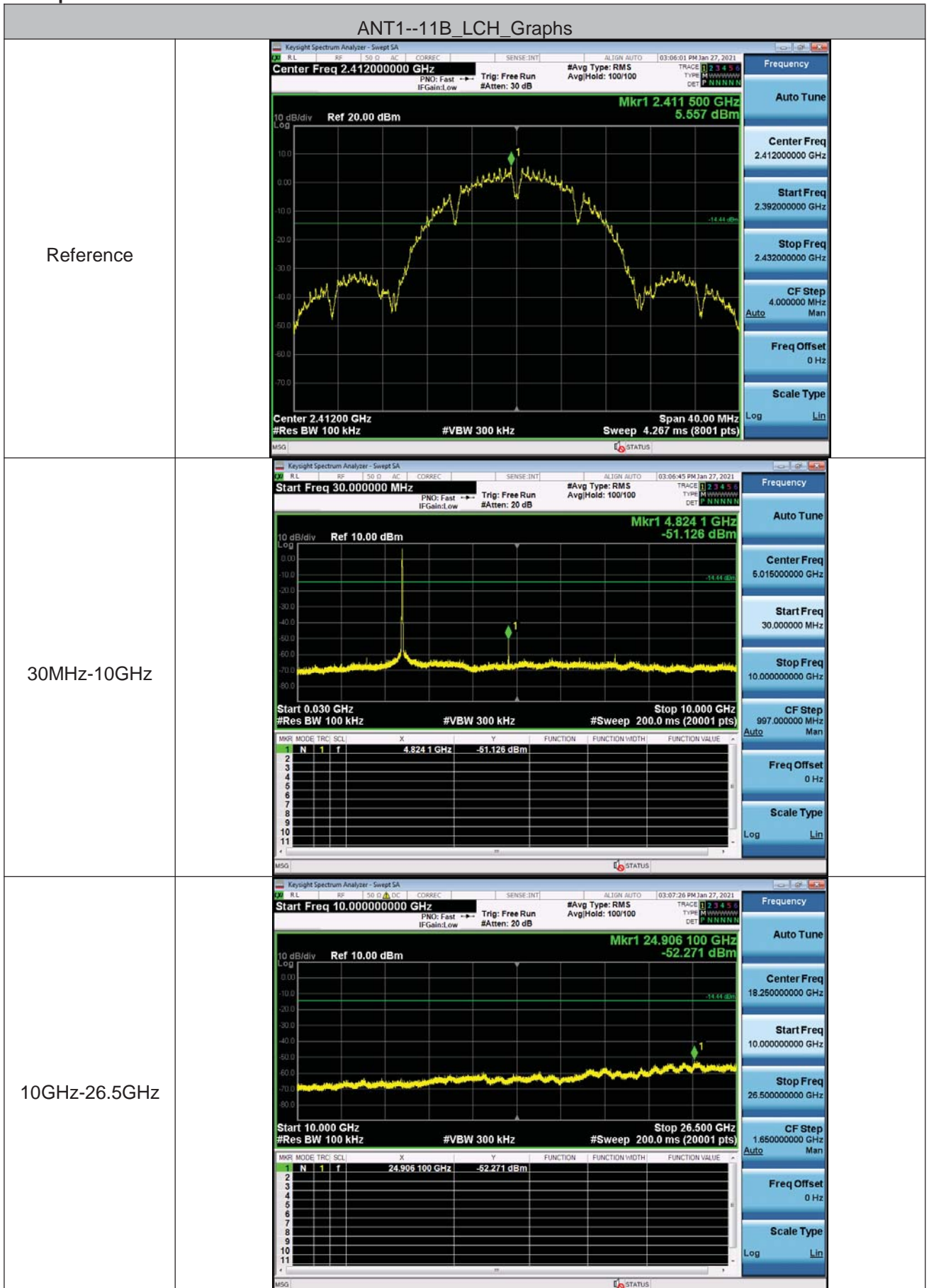


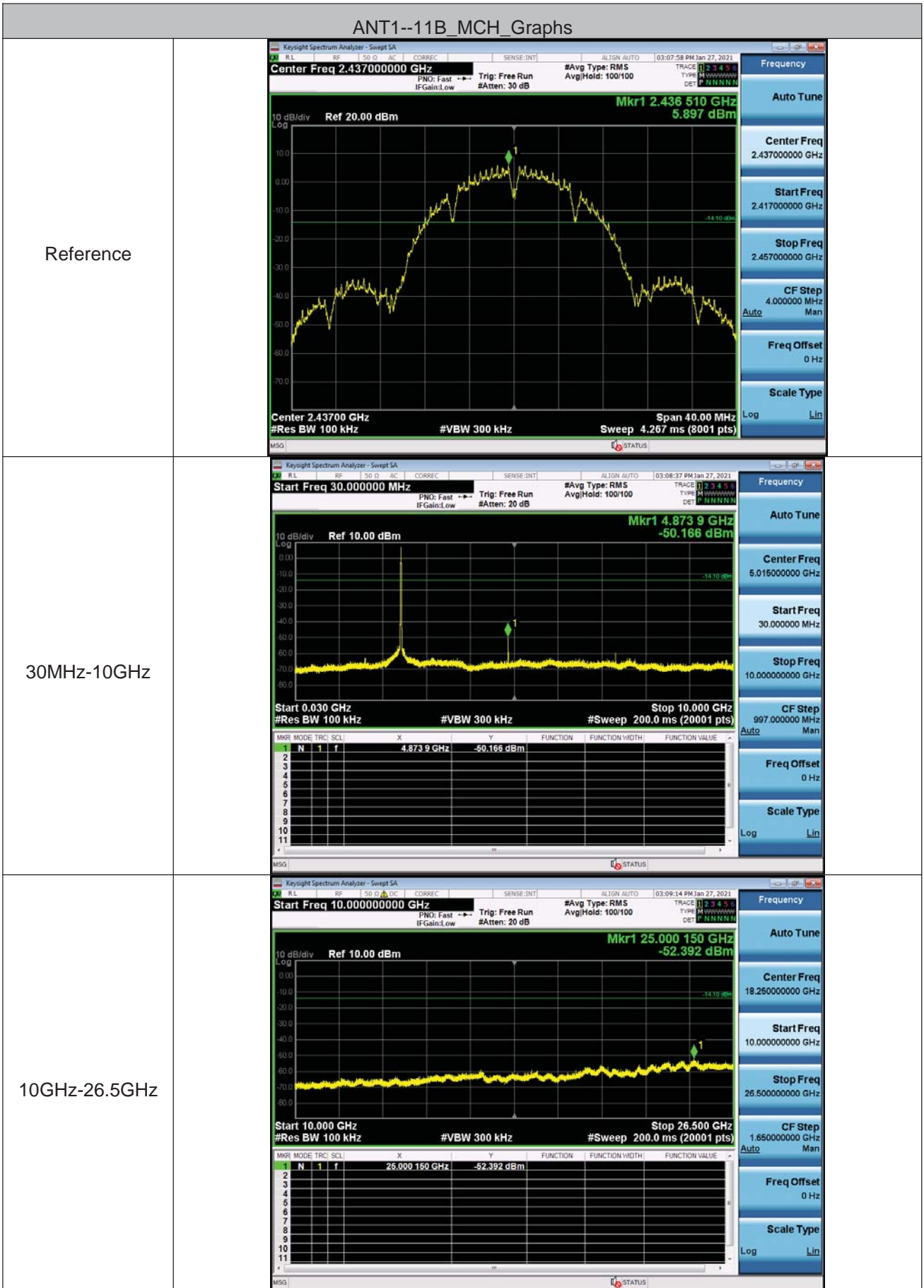
## 6.7 RF Conducted Spurious Emissions

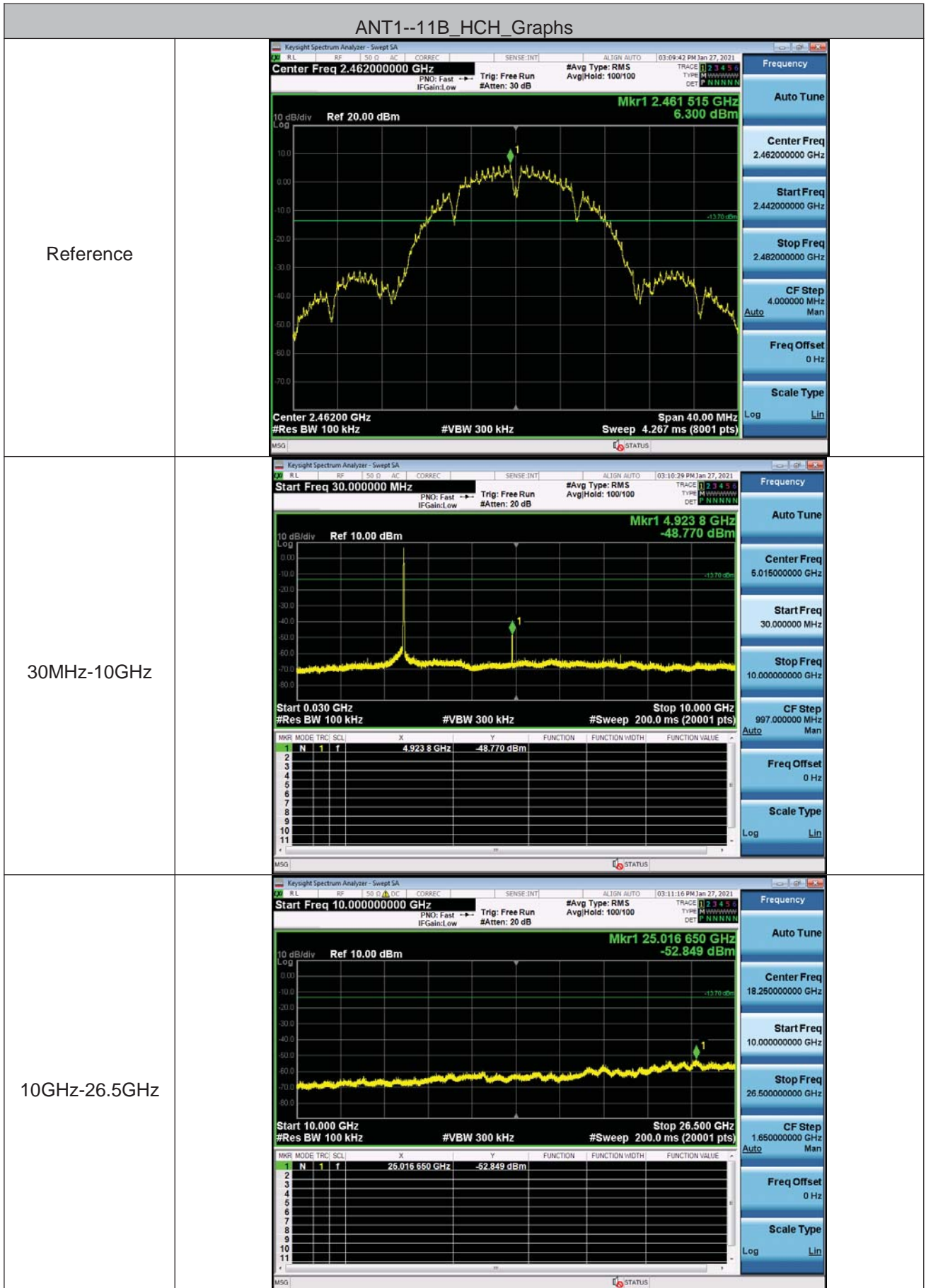
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; MCS0Mbps of rate is the worst case of 802.11n(HT20)/n(HT40); 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 20 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 plot as follows:

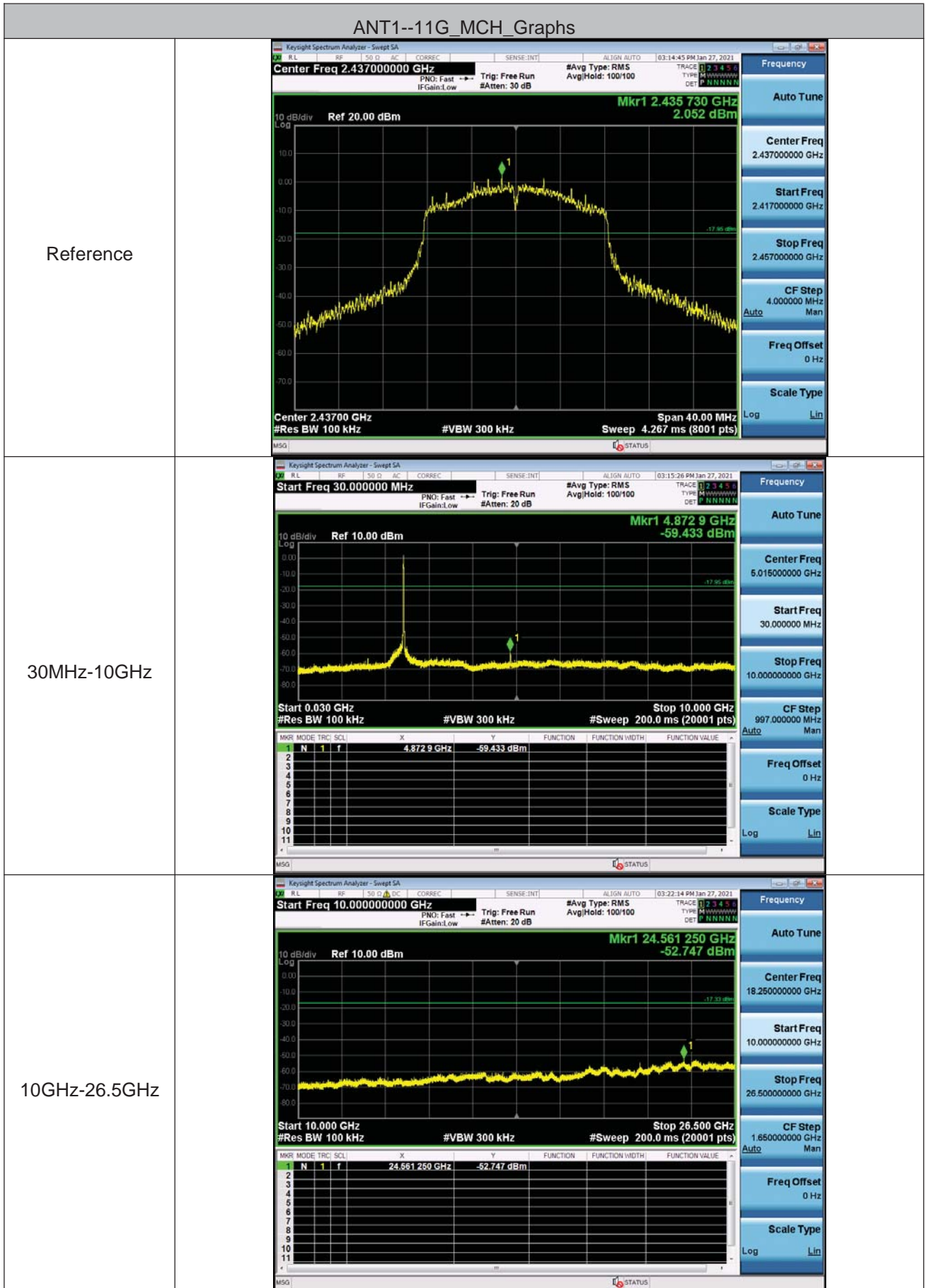


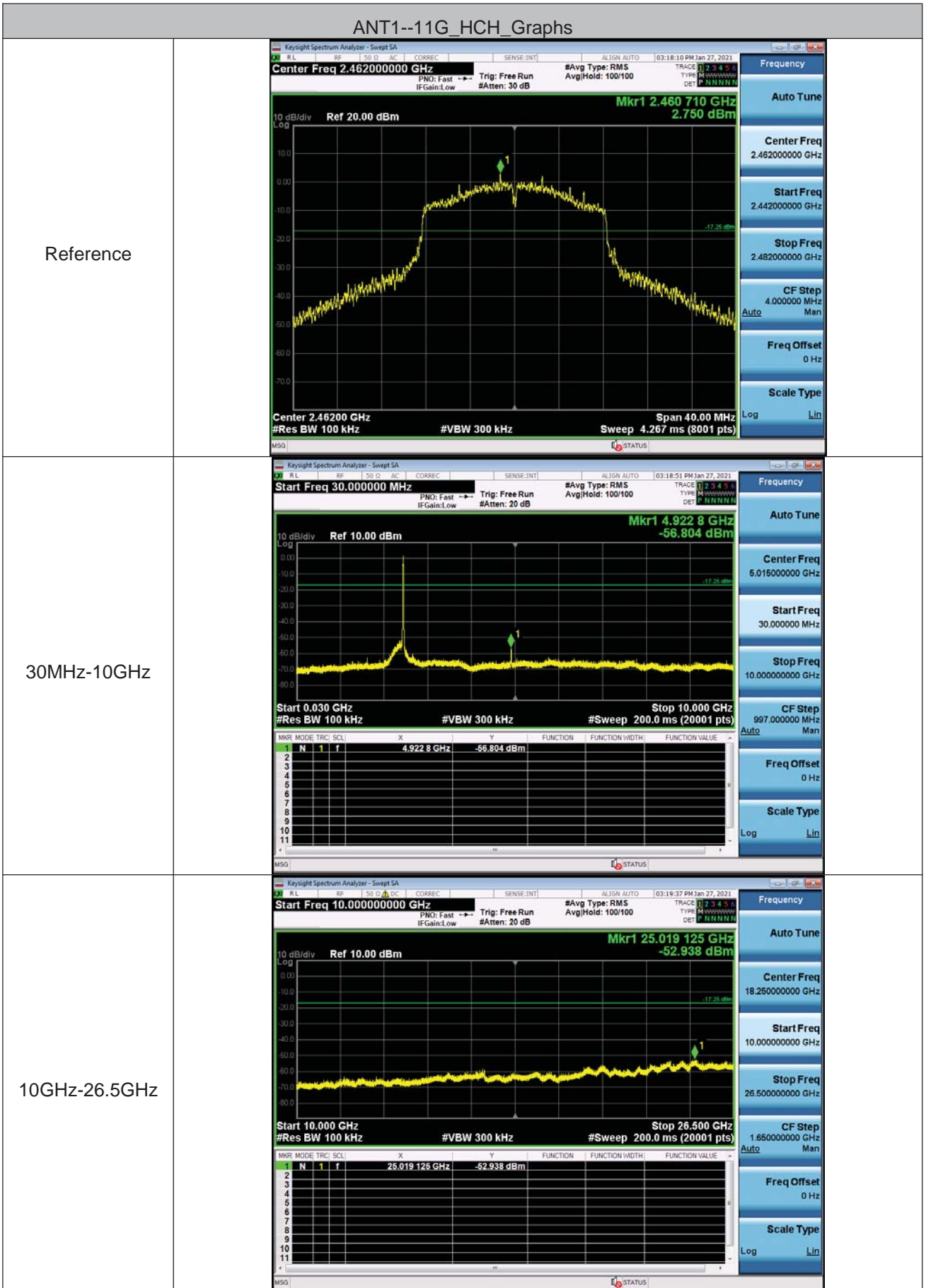


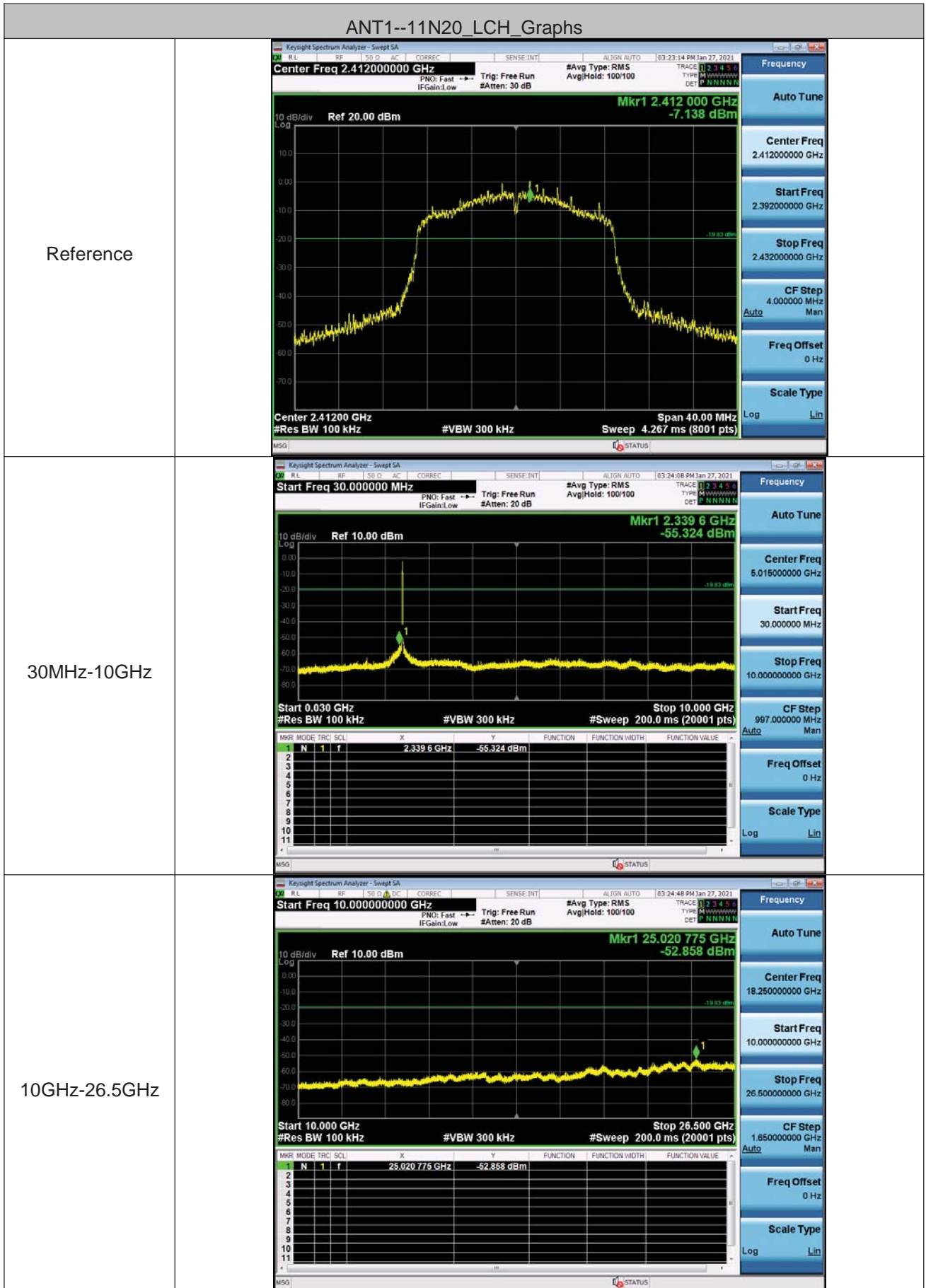


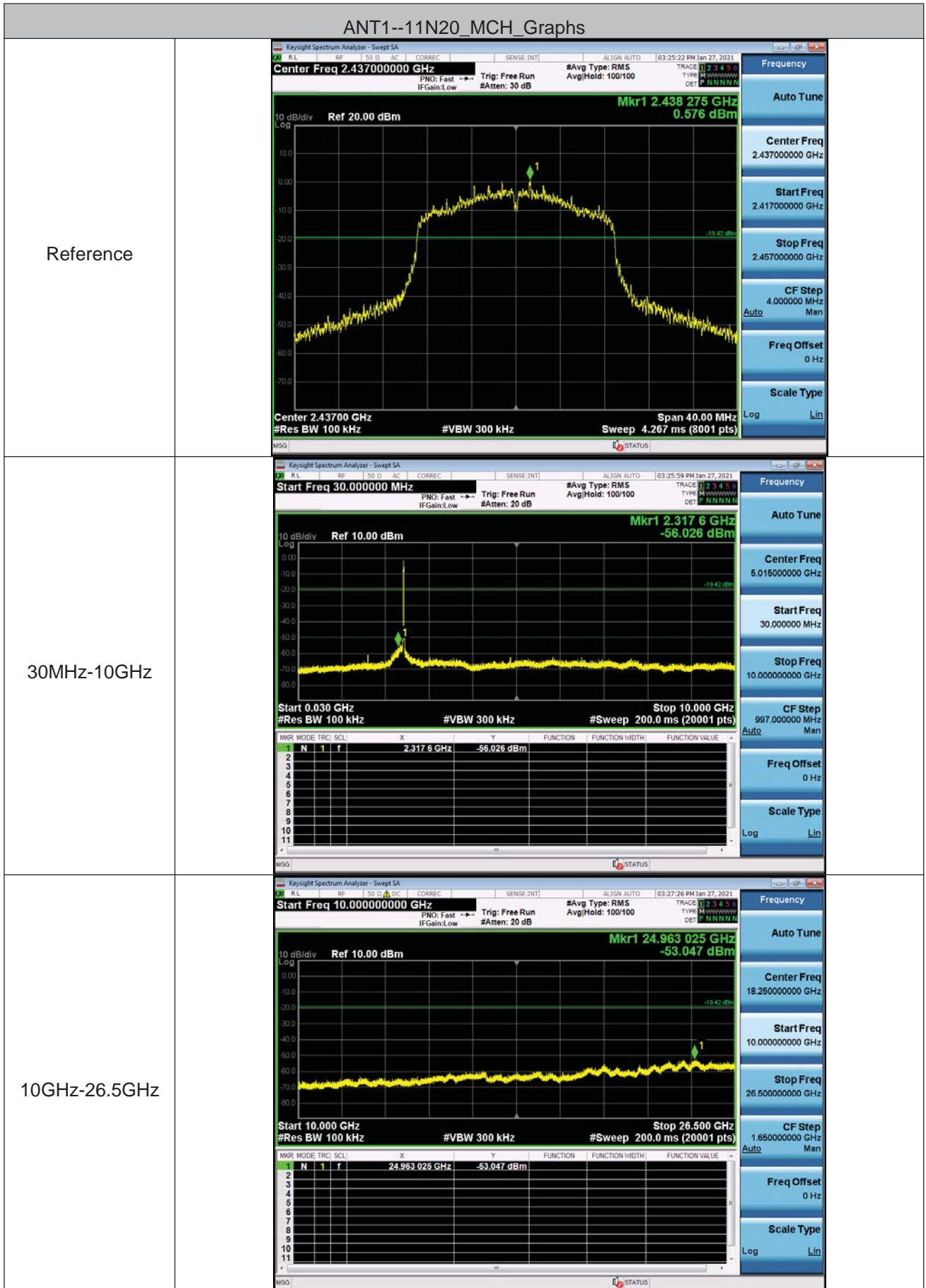
ANT1--11G\_LCH\_Graphs

Reference	<p>Key parameters for Reference signal:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.41200000 GHz</li> <li>Start Freq: 2.39200000 GHz</li> <li>Stop Freq: 2.43200000 GHz</li> <li>CF Step: 4.000000 MHz</li> <li>Scale Type: Log</li> </ul>
30MHz-10GHz	<p>Key parameters for 30MHz-10GHz range:</p> <ul style="list-style-type: none"> <li>Start Freq: 30.000000 MHz</li> <li>Center Freq: 5.01500000 GHz</li> <li>Stop Freq: 10.00000000 GHz</li> <li>CF Step: 997.000000 MHz</li> <li>Scale Type: Log</li> </ul>
10GHz-26.5GHz	<p>Key parameters for 10GHz-26.5GHz range:</p> <ul style="list-style-type: none"> <li>Start Freq: 10.00000000 GHz</li> <li>Center Freq: 18.25000000 GHz</li> <li>Stop Freq: 26.50000000 GHz</li> <li>CF Step: 1.650000000 GHz</li> <li>Scale Type: Log</li> </ul>

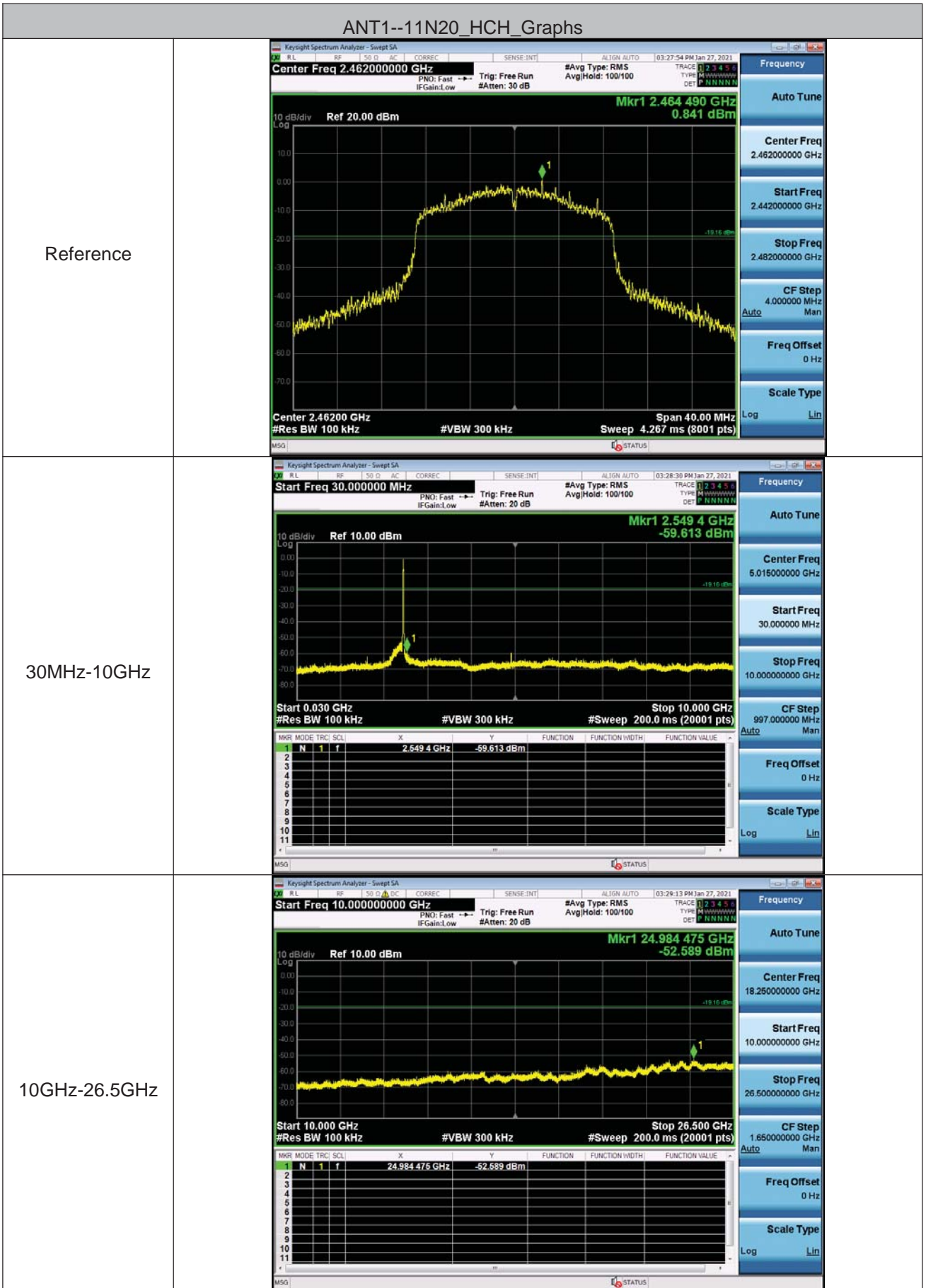


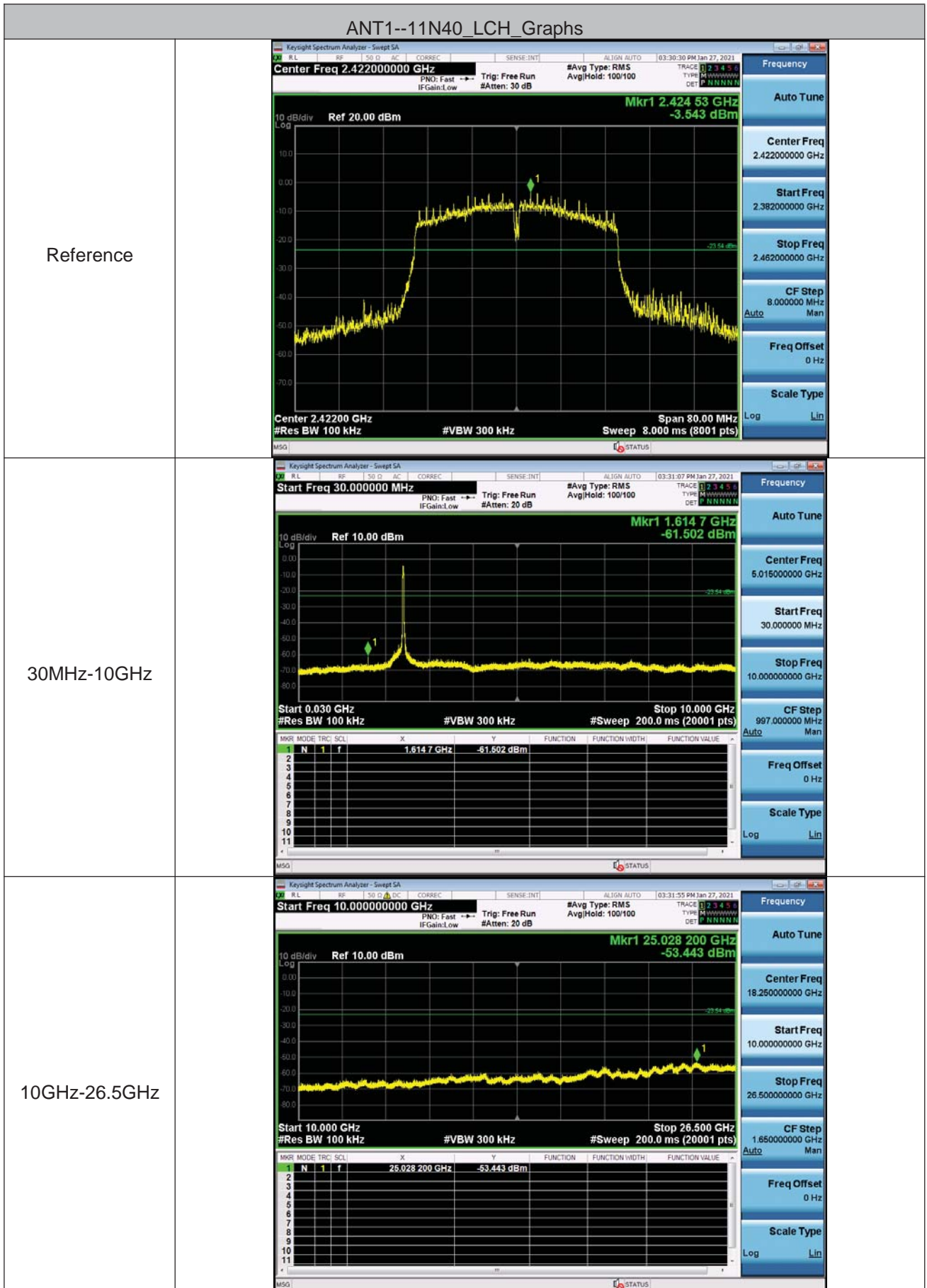


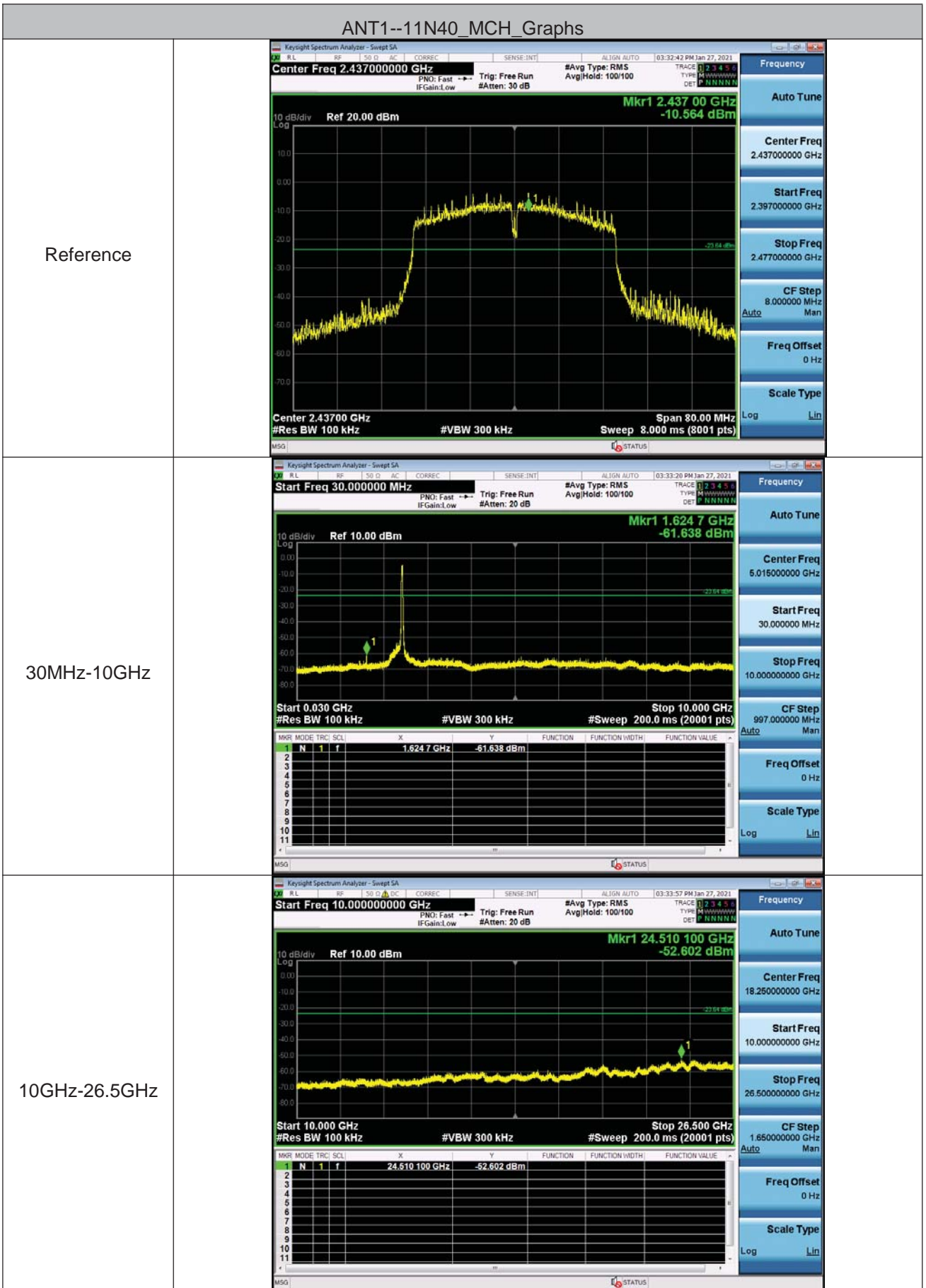


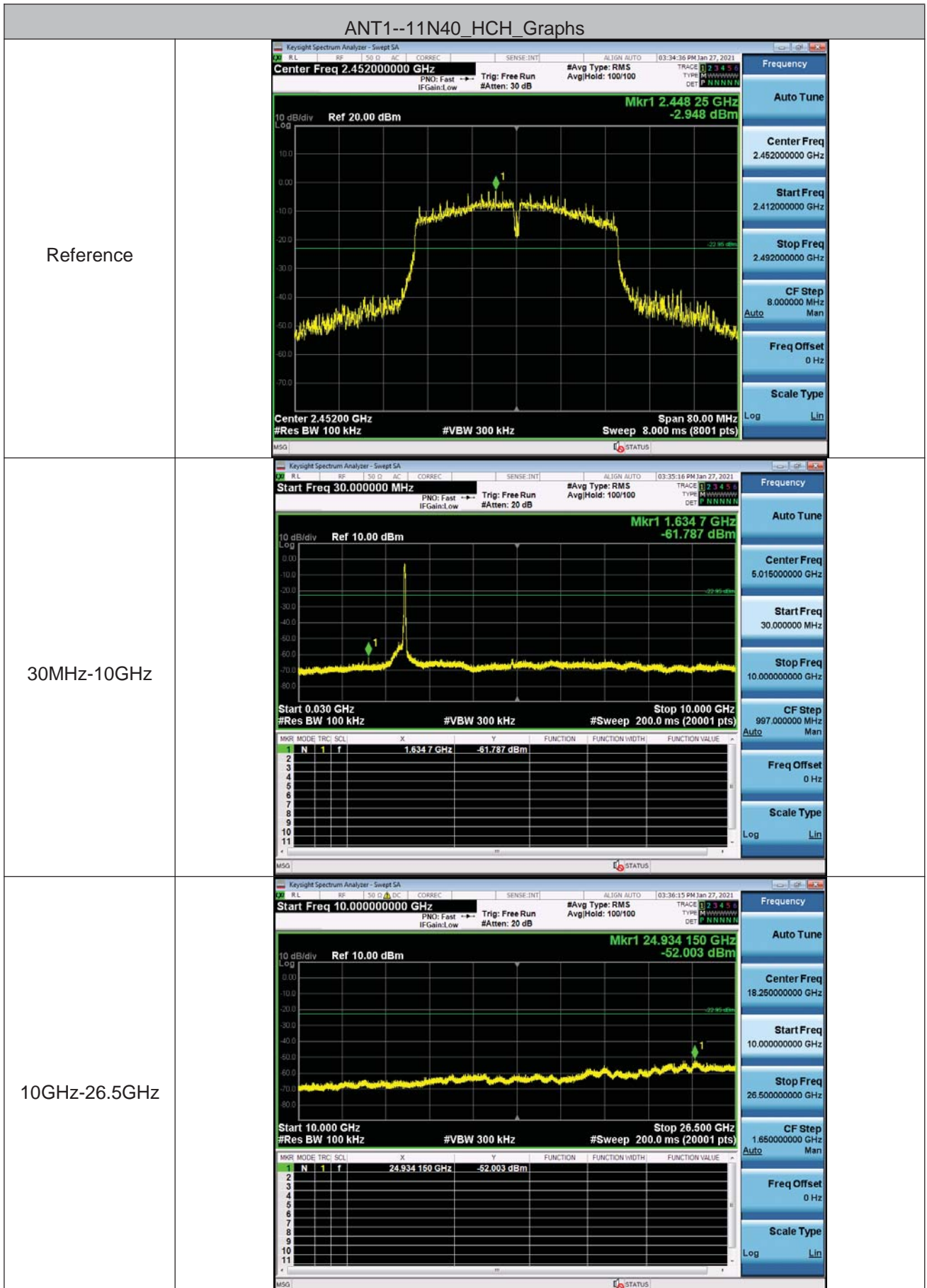






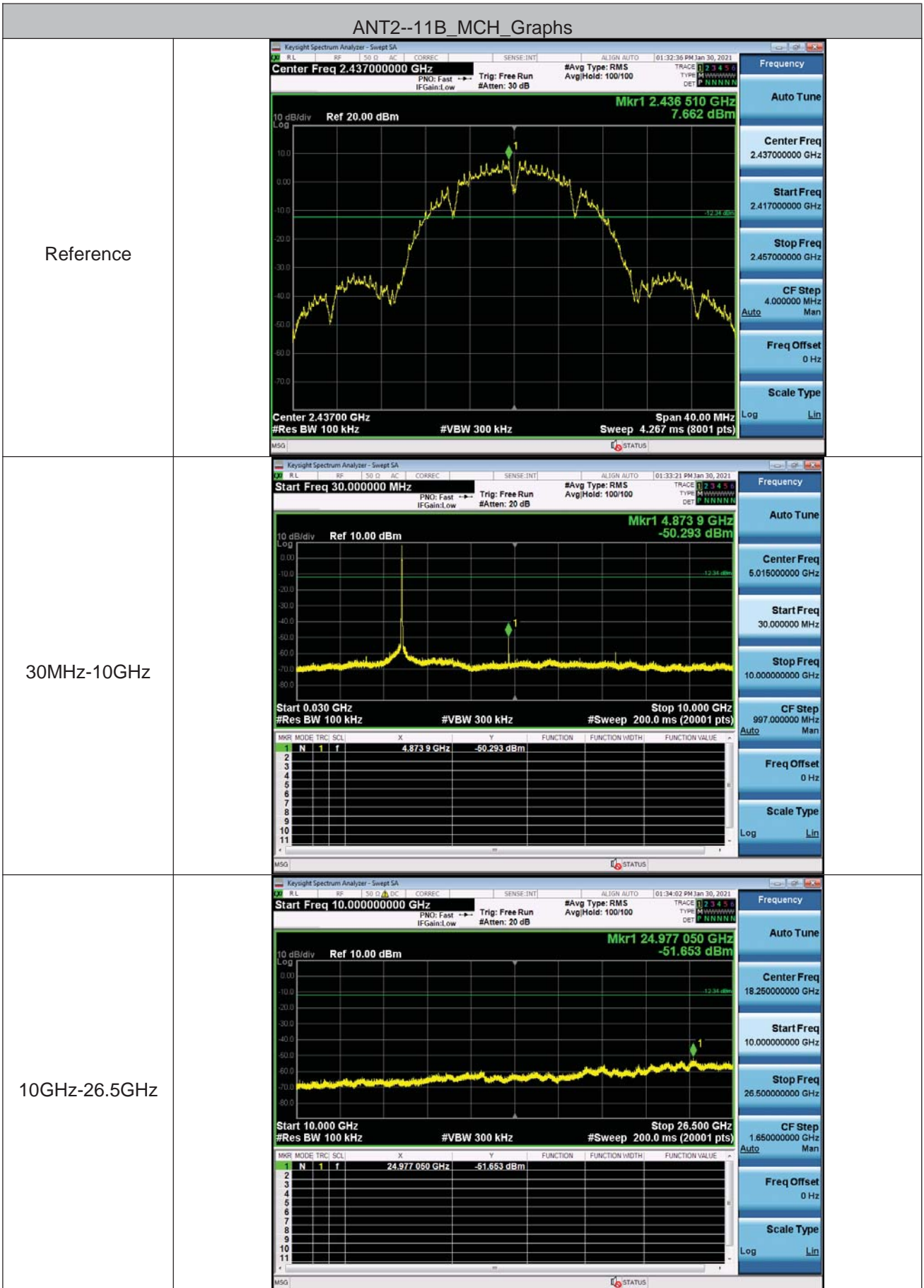






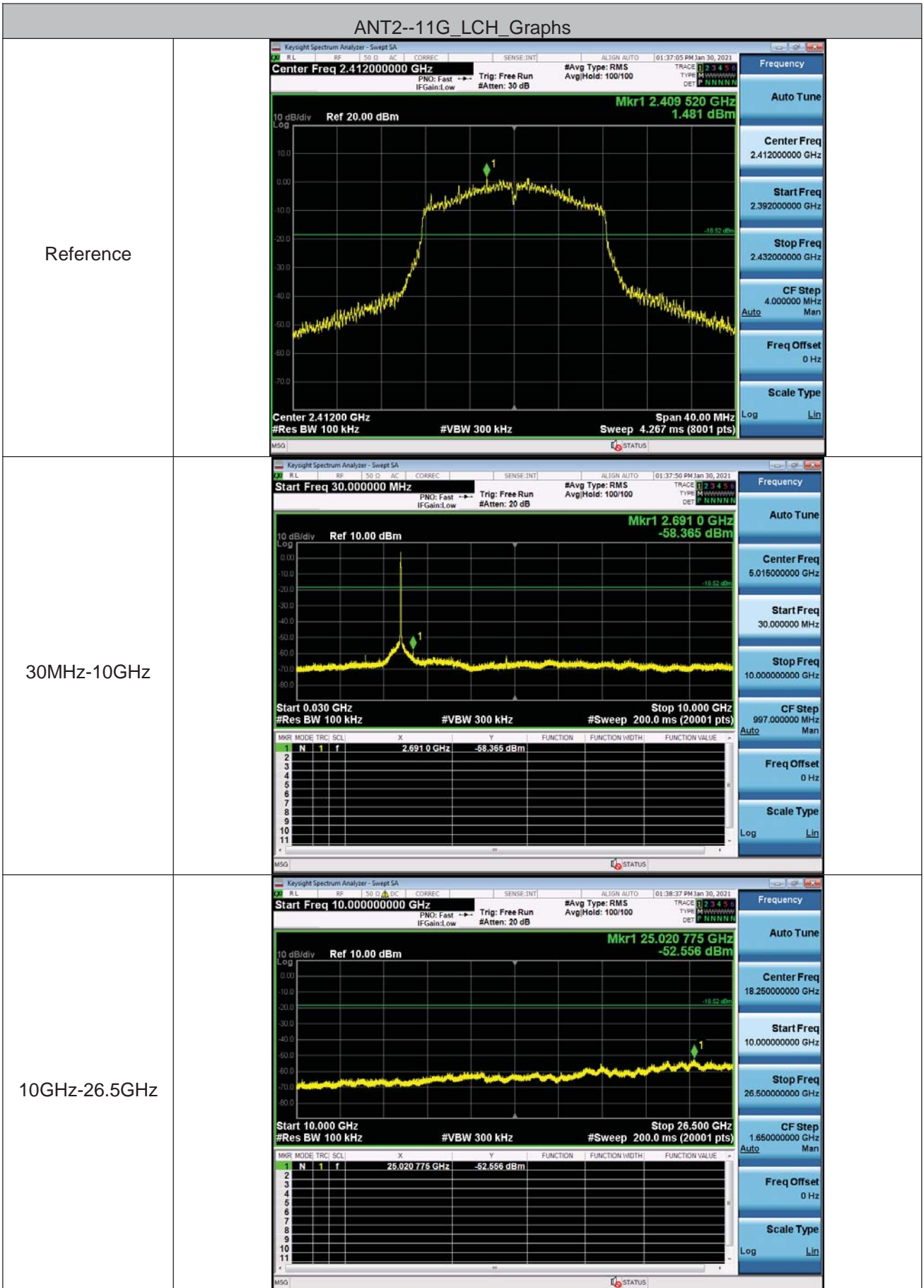
ANT2--11B\_LCH\_Graphs

<p>Reference</p>	<p>KeySight Spectrum Analyzer - Swept SA          Center Freq 2.41200000 GHz          #Res BW 100 kHz          #VBW 300 kHz          Sweep 4.267 ms (8001 pts)          Mkr1 2.412 980 GHz          6.557 dBm          Span 40.00 MHz</p>																		
<p>30MHz-10GHz</p>	<p>KeySight Spectrum Analyzer - Swept SA          Start Freq 30.000000 MHz          #Res BW 100 kHz          #VBW 300 kHz          #Sweep 200.0 ms (20001 pts)          Mkr1 4.824 1 GHz          -51.665 dBm</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>4.824 1 GHz</td> <td>-51.665 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	4.824 1 GHz	-51.665 dBm			
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1	N	1	f	4.824 1 GHz	-51.665 dBm														
<p>10GHz-26.5GHz</p>	<p>KeySight Spectrum Analyzer - Swept SA          Start Freq 10.000000 GHz          #Res BW 100 kHz          #VBW 300 kHz          #Sweep 200.0 ms (20001 pts)          Mkr1 25.019 125 GHz          -53.145 dBm</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>25.019 125 GHz</td> <td>-53.145 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	25.019 125 GHz	-53.145 dBm			
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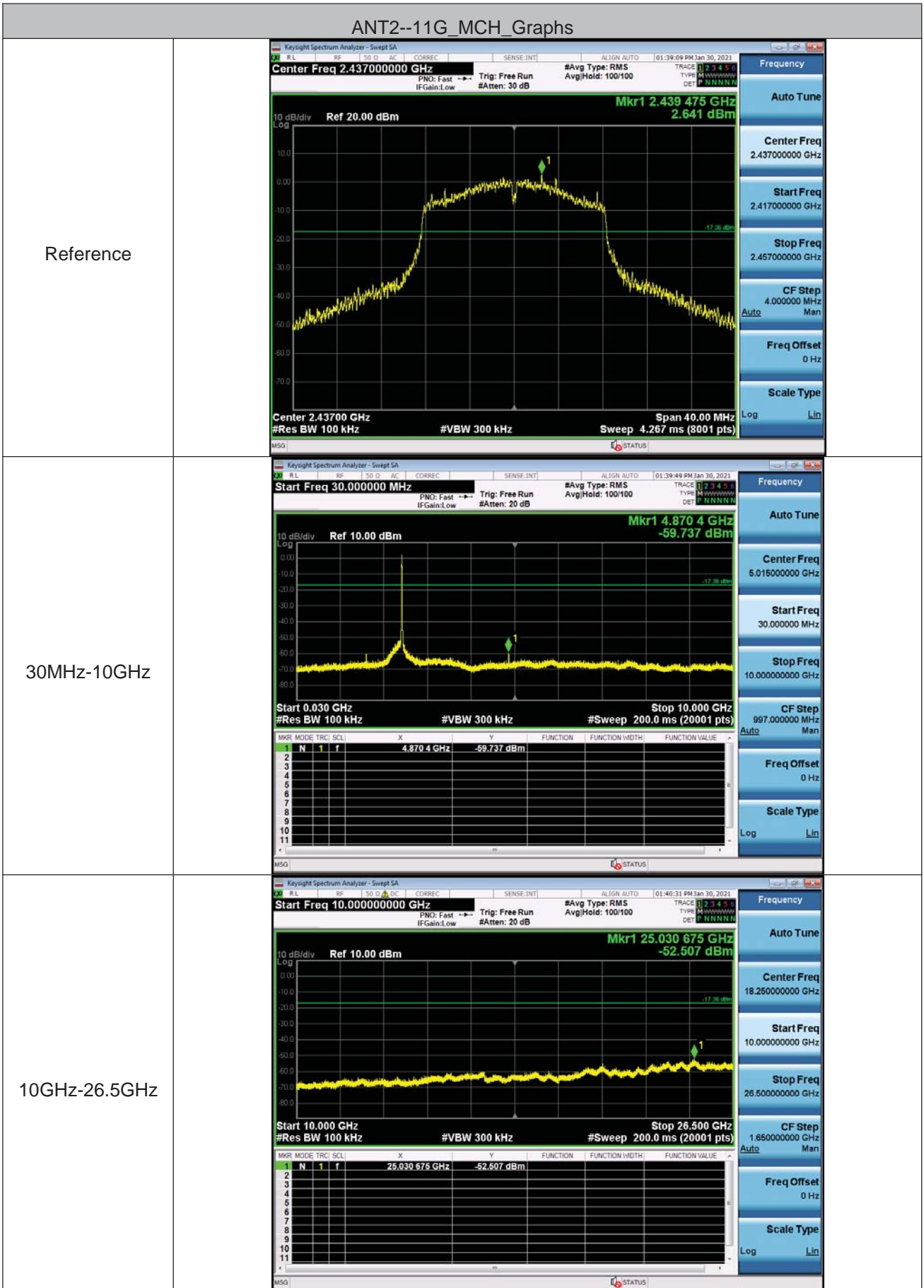


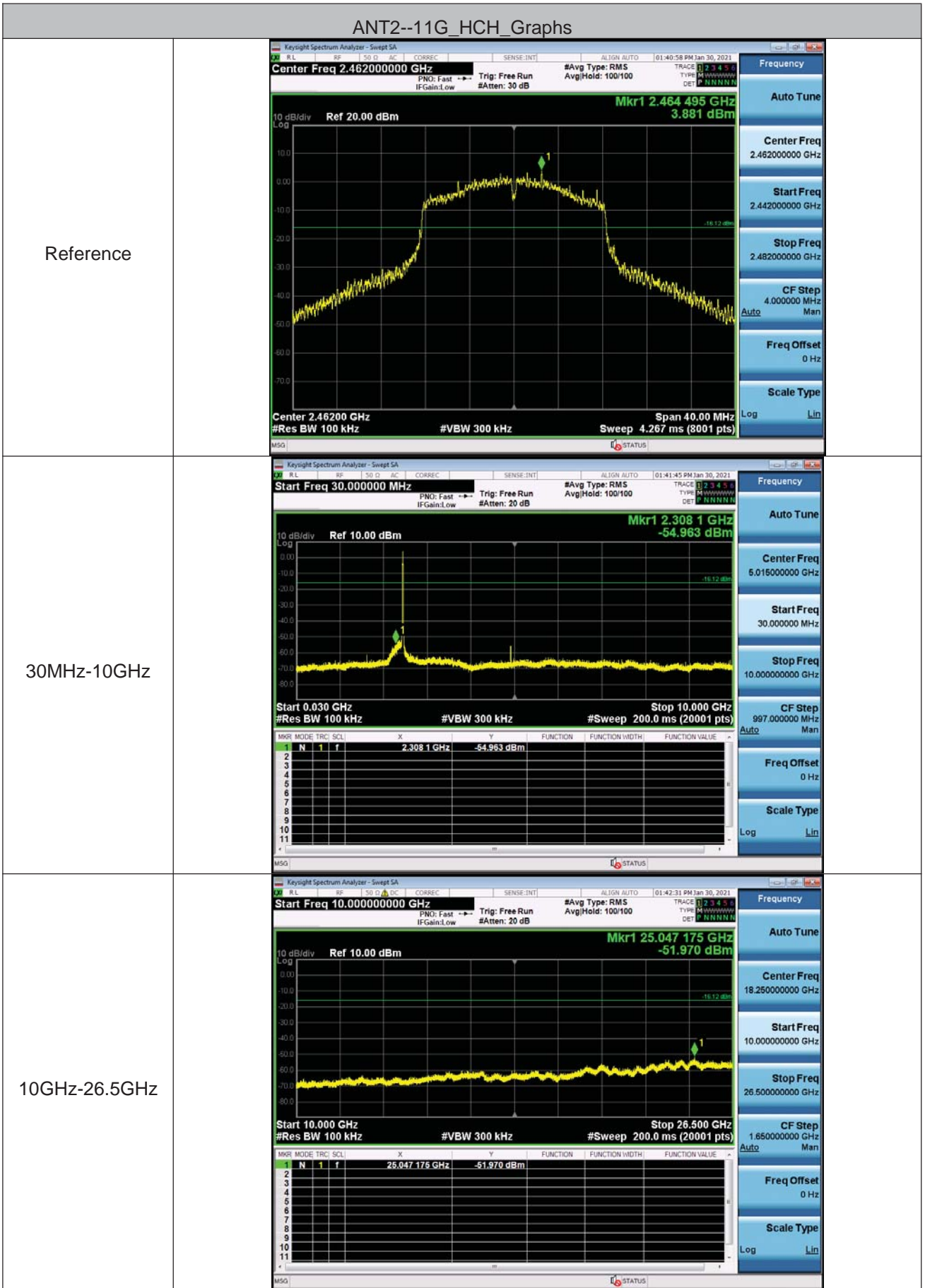
ANT2--11B\_HCH\_Graphs

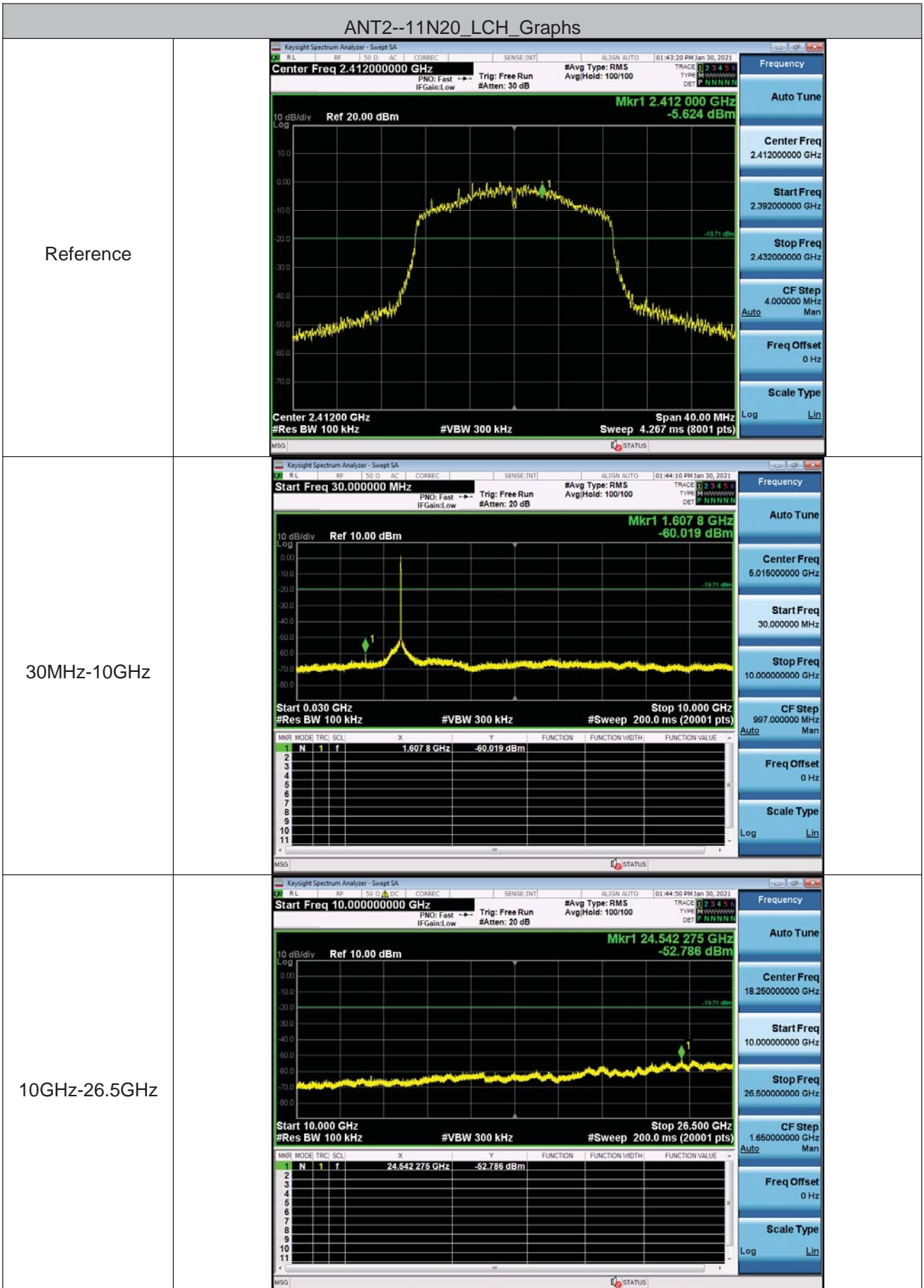
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30MHz-10GHz	<table border="1" data-bbox="550 1332 1204 1512"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td>f</td> <td>4.923 8 GHz</td> <td>-48.540 dBm</td> <td></td> <td></td> <td></td> </tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f	f	4.923 8 GHz	-48.540 dBm				2									3									4									5									6									7									8									9									10									11								
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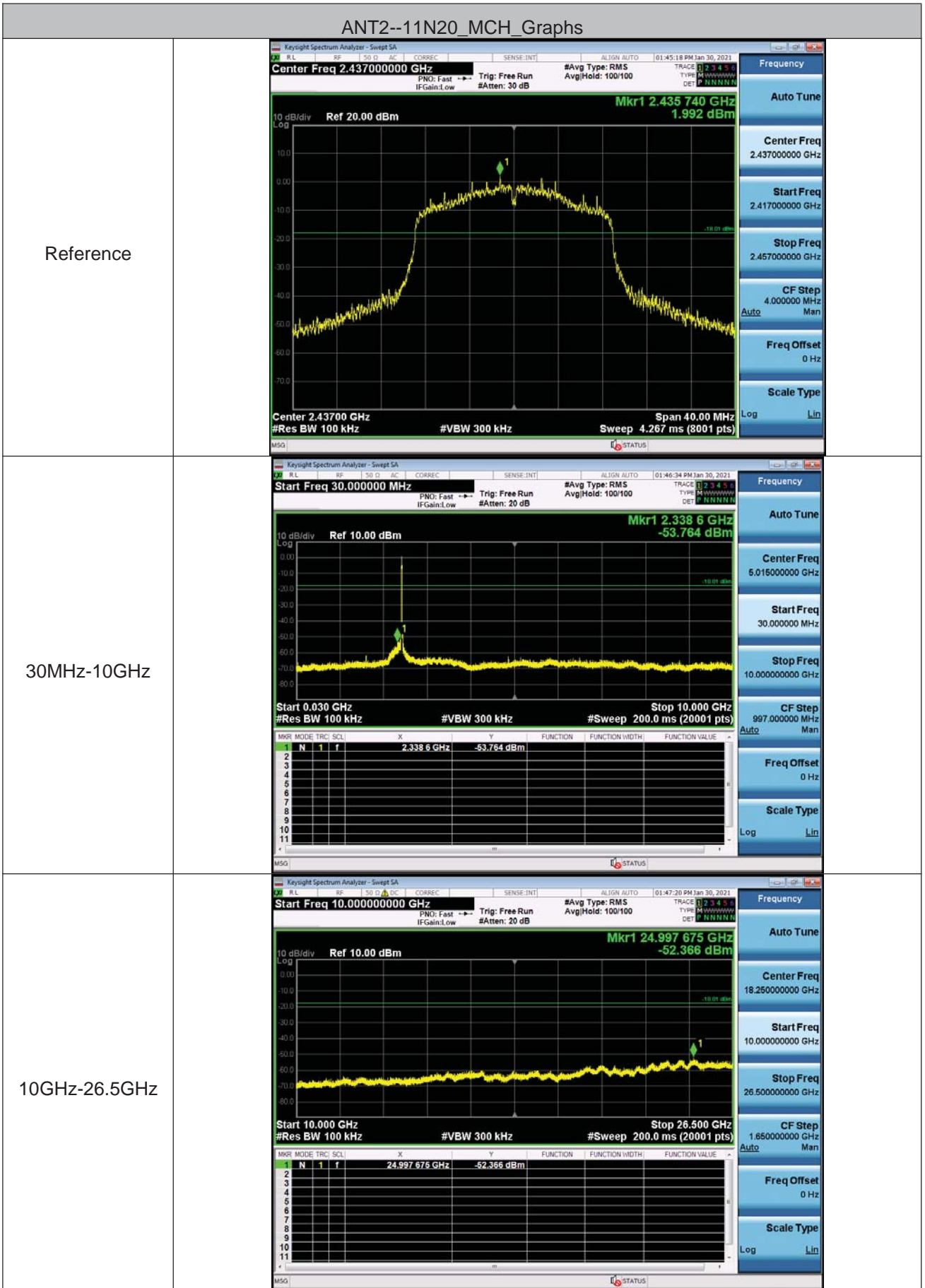


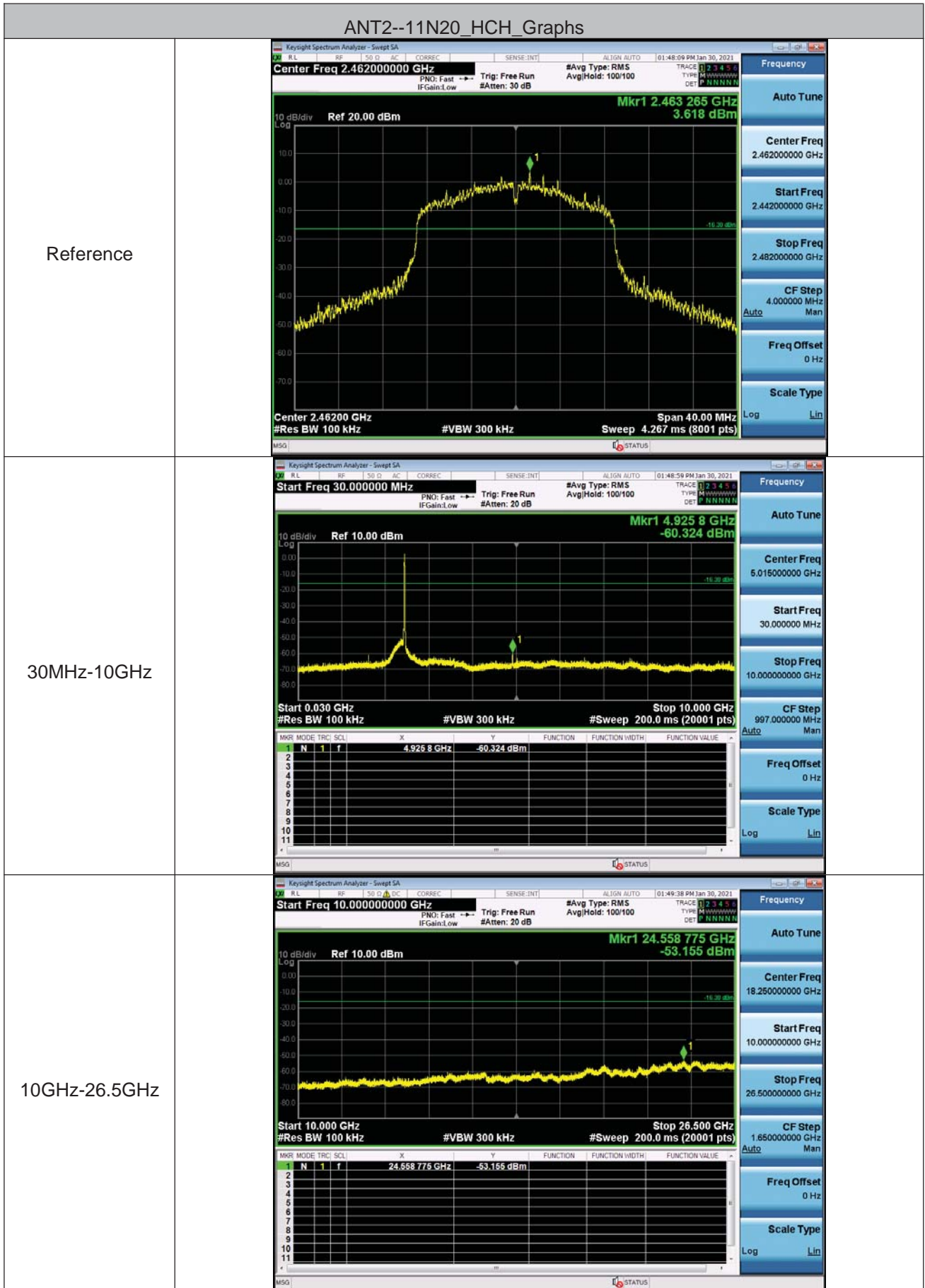


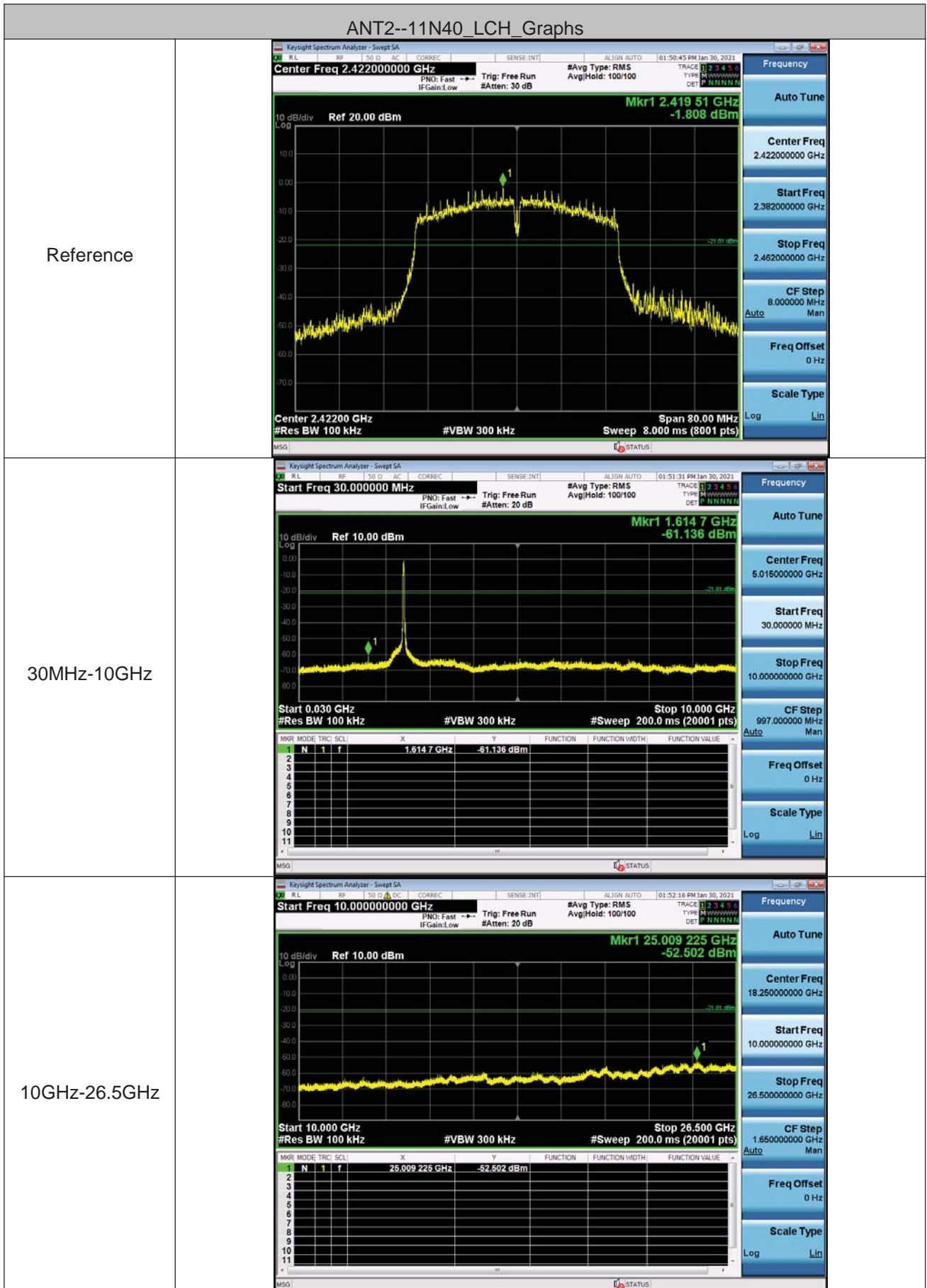


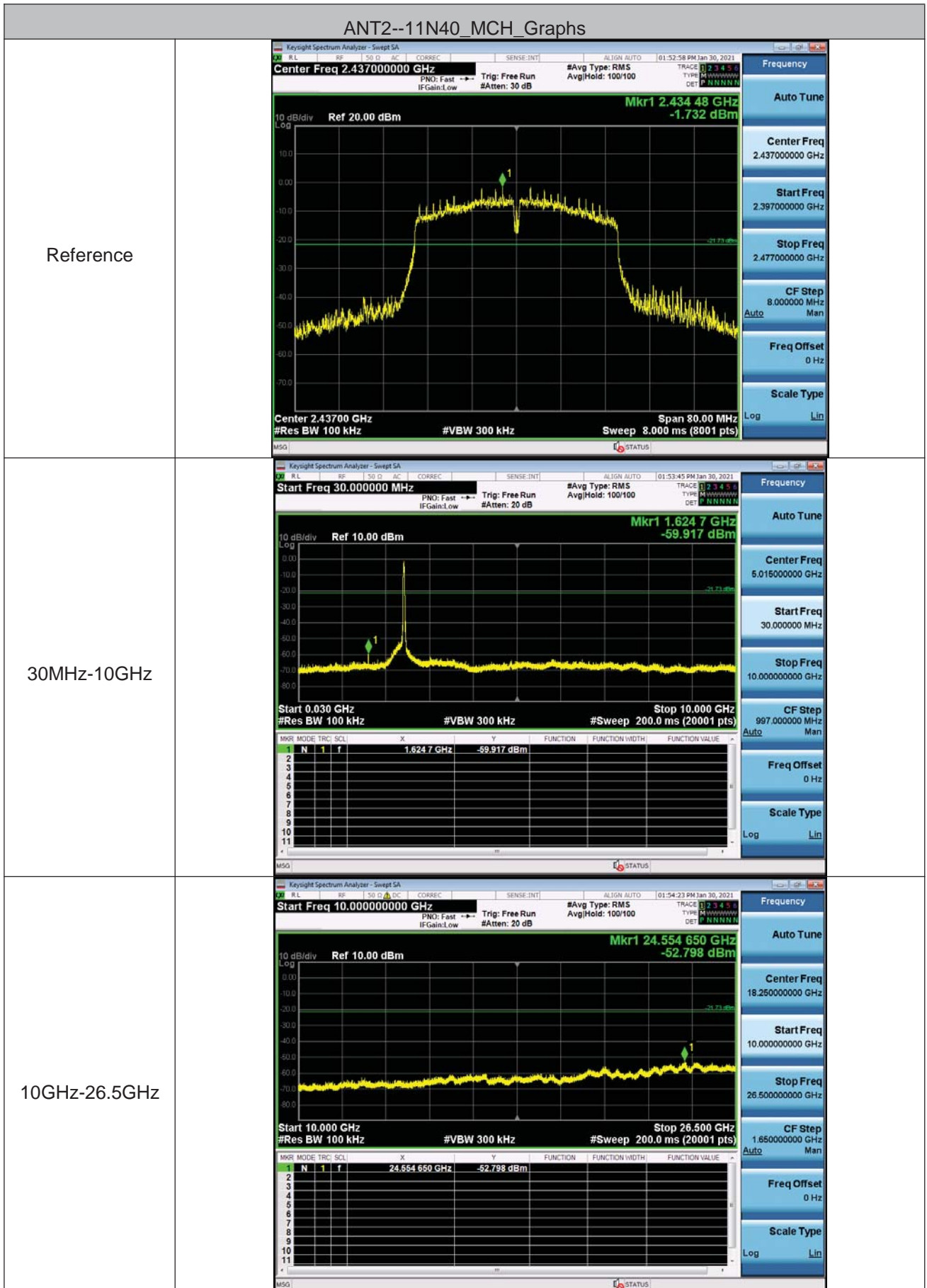


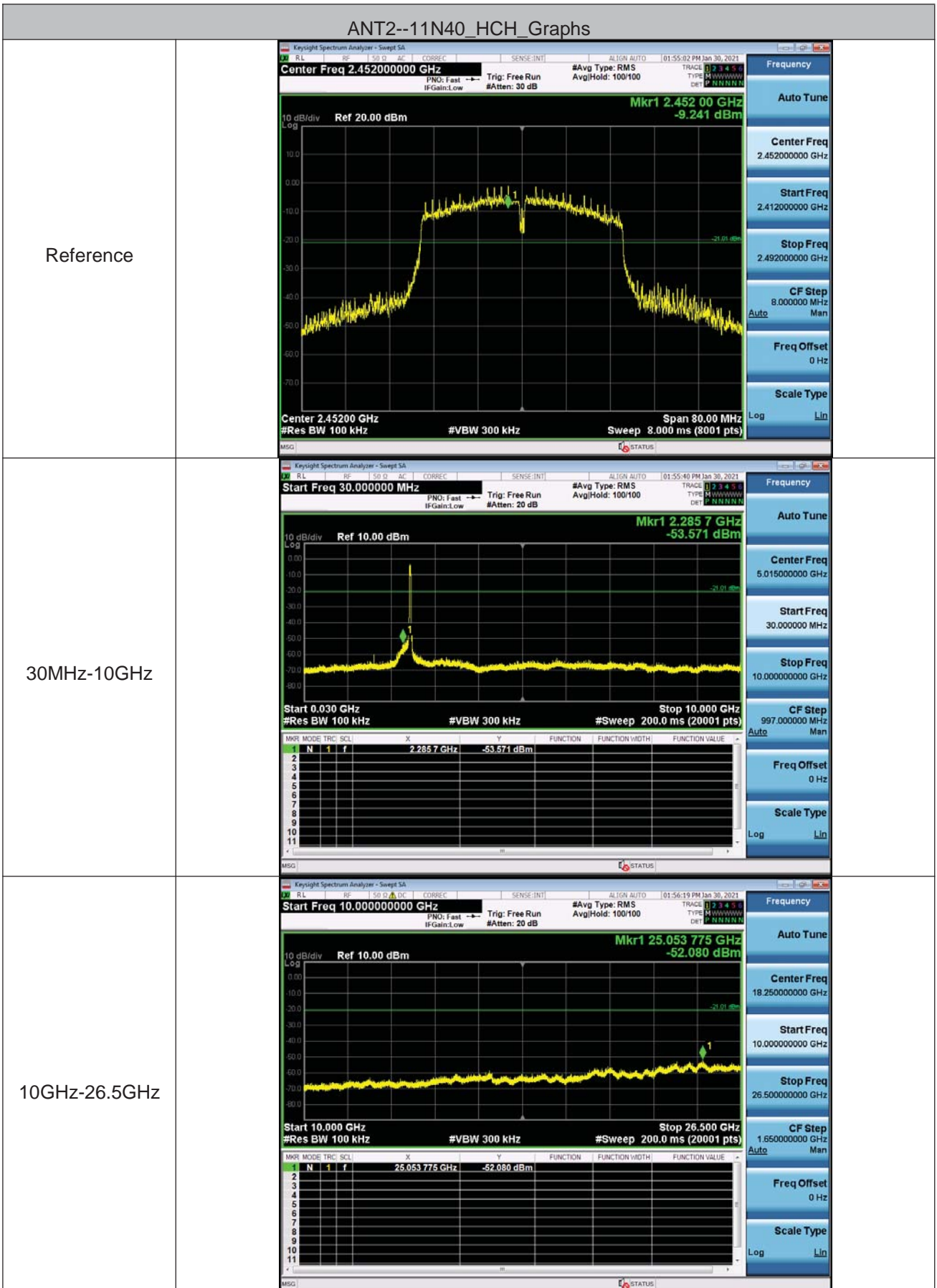












Remark:



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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.

## 6.8 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
<p>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.</p>					

Test Setup:

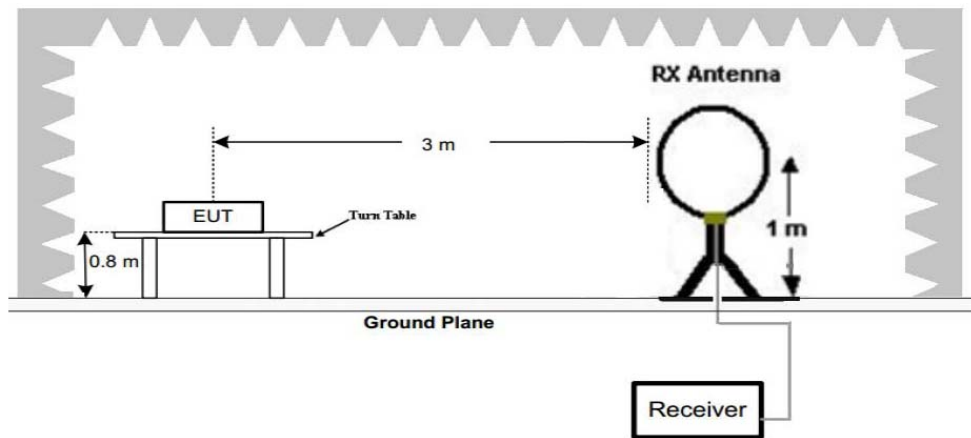


Figure 1. Below 30MHz

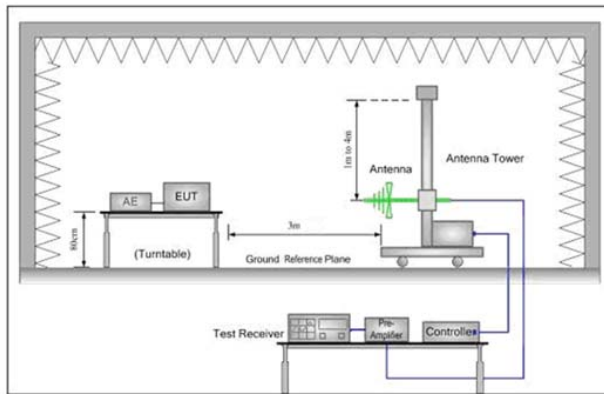


Figure 2. 30MHz to 1GHz

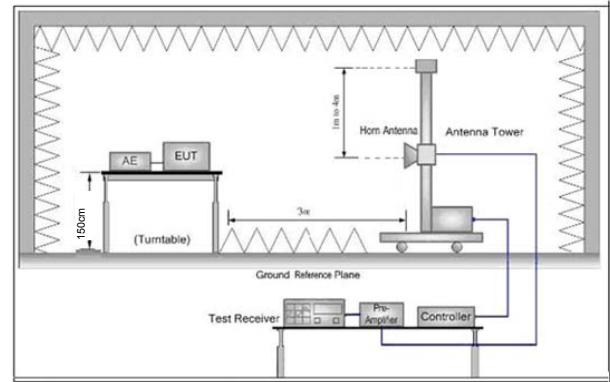


Figure 3. Above 1 GHz

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. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; MCS0Mbps of rate is the worst case of 802.11n(HT20); For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
Test Results:	Pass

### 6.8.1 Radiated emission below 1GHz

The worst mode emission has been recorded in the report CQASZ20210100004EX-01

6.8.2 Transmitter emission above 1GHz

ANT1

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	61.43	-4.26	57.17	74	-16.83	PK	H
4824.000	41.71	-4.26	37.45	54	-16.55	AV	H
7236.000	60.77	1.18	61.95	74	-12.05	PK	H
7236.000	38.59	1.18	39.77	54	-14.23	AV	H
4824.000	59.79	-4.26	55.53	74	-18.47	PK	V
4824.000	40.70	-4.26	36.44	54	-17.56	AV	V
7236.000	62.73	1.18	63.91	74	-10.09	PK	V
7236.000	39.87	1.18	41.05	54	-12.95	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	61.42	-4.12	57.30	74	-16.70	PK	H
4874.000	43.01	-4.12	38.89	54	-15.11	AV	H
7311.000	60.43	1.46	61.89	74	-12.11	PK	H
7311.000	39.00	1.46	40.46	54	-13.54	AV	H
4874.000	59.07	-4.12	54.95	74	-19.05	PK	V
4874.000	40.14	-4.12	36.02	54	-17.98	AV	V
7311.000	61.70	1.46	63.16	74	-10.84	PK	V
7311.000	39.34	1.46	40.80	54	-13.20	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	58.87	-4.03	54.84	74	-19.16	PK	H
4924.000	42.51	-4.03	38.48	54	-15.52	AV	H
7386.000	59.96	1.66	61.62	74	-12.38	PK	H
7386.000	38.97	1.66	40.63	54	-13.37	AV	H
4924.000	59.61	-4.03	55.58	74	-18.42	PK	V
4924.000	40.13	-4.03	36.10	54	-17.90	AV	V

7386.000	59.84	1.66	61.50	74	-12.50	PK	V
7386.000	38.66	1.66	40.32	54	-13.68	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.

**ANT2**

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	59.27	-4.26	55.01	74	-18.99	PK	H
4824.000	40.36	-4.26	36.10	54	-17.90	AV	H
7236.000	62.49	1.18	63.67	74	-10.33	PK	H
7236.000	39.19	1.18	40.37	54	-13.63	AV	H
4824.000	61.17	-4.26	56.91	74	-17.09	PK	V
4824.000	40.10	-4.26	35.84	54	-18.16	AV	V
7236.000	62.15	1.18	63.33	74	-10.67	PK	V
7236.000	38.64	1.18	39.82	54	-14.18	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	59.99	-4.12	55.87	74	-18.13	PK	H
4874.000	42.39	-4.12	38.27	54	-15.73	AV	H
7311.000	61.30	1.46	62.76	74	-11.24	PK	H
7311.000	39.59	1.46	41.05	54	-12.95	AV	H
4874.000	59.97	-4.12	55.85	74	-18.15	PK	V
4874.000	41.55	-4.12	37.43	54	-16.57	AV	V
7311.000	60.36	1.46	61.82	74	-12.18	PK	V
7311.000	38.52	1.46	39.98	54	-14.02	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	59.65	-4.03	55.62	74	-18.38	PK	H
4924.000	41.88	-4.03	37.85	54	-16.15	AV	H
7386.000	60.88	1.66	62.54	74	-11.46	PK	H
7386.000	40.42	1.66	42.08	54	-11.92	AV	H
4924.000	59.41	-4.03	55.38	74	-18.62	PK	V
4924.000	42.33	-4.03	38.30	54	-15.70	AV	V
7386.000	60.89	1.66	62.55	74	-11.45	PK	V
7386.000	38.66	1.66	40.32	54	-13.68	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.

Combine with ANT1 and ANT2:

Test mode:		802.11N20(MCS0)		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	63.73	-4.26	59.47	74	-14.53	PK	H
4824.000	44.52	-4.26	40.26	54	-13.74	AV	H
7236.000	62.98	1.18	64.16	74	-9.84	PK	H
7236.000	42.11	1.18	43.29	54	-10.71	AV	H
4824.000	64.50	-4.26	60.24	74	-13.76	PK	V
4824.000	43.60	-4.26	39.34	54	-14.66	AV	V
7236.000	62.85	1.18	64.03	74	-9.97	PK	V
7236.000	42.00	1.18	43.18	54	-10.82	AV	V

Test mode:		802.11N20(MCS0)		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	62.03	-4.12	57.91	74	-16.09	PK	H
4874.000	44.54	-4.12	40.42	54	-13.58	AV	H
7311.000	65.29	1.46	66.75	74	-7.25	PK	H
7311.000	41.18	1.46	42.64	54	-11.36	AV	H
4874.000	63.52	-4.12	59.40	74	-14.60	PK	V
4874.000	43.73	-4.12	39.61	54	-14.39	AV	V
7311.000	64.53	1.46	65.99	74	-8.01	PK	V
7311.000	42.30	1.46	43.76	54	-10.24	AV	V

Test mode:		802.11N20(MCS0)		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	63.08	-4.03	59.05	74	-14.95	PK	H
4924.000	43.10	-4.03	39.07	54	-14.93	AV	H
7386.000	63.43	1.66	65.09	74	-8.91	PK	H
7386.000	41.22	1.66	42.88	54	-11.12	AV	H
4924.000	62.53	-4.03	58.50	74	-15.50	PK	V
4924.000	45.03	-4.03	41.00	54	-13.00	AV	V
7386.000	64.19	1.66	65.85	74	-8.15	PK	V
7386.000	43.28	1.66	44.94	54	-9.06	AV	V

Test mode:		802.11N40(MCS0)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
4824.000	62.52	-4.26	58.26	74	-15.74	PK	H
4824.000	43.56	-4.26	39.30	54	-14.70	AV	H
7236.000	64.25	1.18	65.43	74	-8.57	PK	H
7236.000	42.39	1.18	43.57	54	-10.43	AV	H
4824.000	62.42	-4.26	58.16	74	-15.84	PK	V
4824.000	43.19	-4.26	38.93	54	-15.07	AV	V
7236.000	62.77	1.18	63.95	74	-10.05	PK	V
7236.000	42.74	1.18	43.92	54	-10.08	AV	V

Test mode:		802.11N40(MCS0)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
4874.000	62.82	-4.12	58.70	74	-15.30	PK	H
4874.000	44.07	-4.12	39.95	54	-14.05	AV	H
7311.000	65.82	1.46	67.28	74	-6.72	PK	H
7311.000	42.57	1.46	44.03	54	-9.97	AV	H
4874.000	61.83	-4.12	57.71	74	-16.29	PK	V
4874.000	42.84	-4.12	38.72	54	-15.28	AV	V
7311.000	62.40	1.46	63.86	74	-10.14	PK	V
7311.000	41.25	1.46	42.71	54	-11.29	AV	V

Test mode:		802.11N40(MCS0)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
4924.000	62.25	-4.03	58.22	74	-15.78	PK	H
4924.000	43.75	-4.03	39.72	54	-14.28	AV	H
7386.000	65.67	1.66	67.33	74	-6.67	PK	H
7386.000	42.55	1.66	44.21	54	-9.79	AV	H
4924.000	62.59	-4.03	58.56	74	-15.44	PK	V
4924.000	43.17	-4.03	39.14	54	-14.86	AV	V
7386.000	62.76	1.66	64.42	74	-9.58	PK	V
7386.000	41.80	1.66	43.46	54	-10.54	AV	V

## 6.9 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
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

### Test Setup:

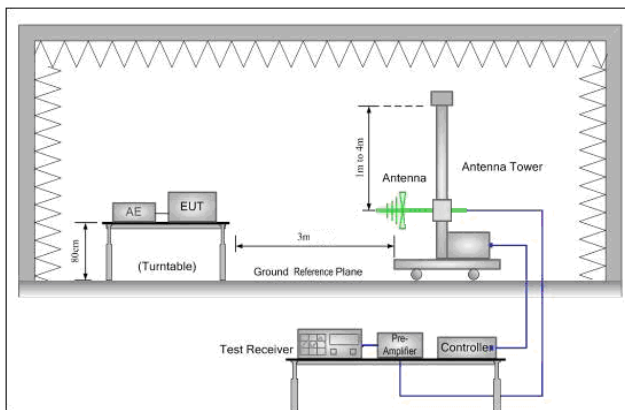


Figure 1. 30MHz to 1GHz

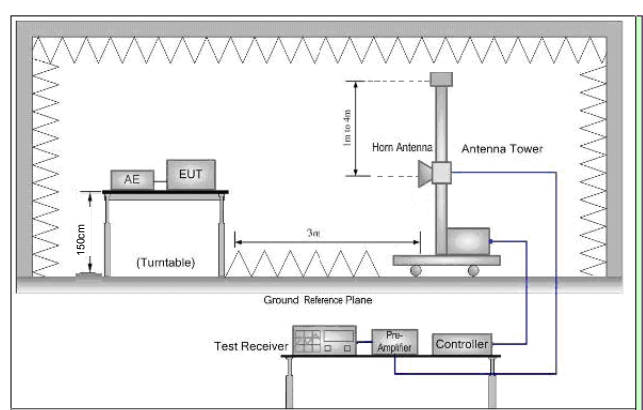


Figure 2. Above 1 GHz

### 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

	<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 Highest channel</p> <p>h. 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; MCS0Mbps of rate is the worst case of 802.11n(HT20);</p> <p>Only the worst case is recorded in the report.</p>
Test Results:	<p>Pass</p>

Test data:

ANT1

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	65.41	-9.2	56.21	74	-17.79	PK	H
2390.000	40.78	-9.2	31.58	54	-22.42	AV	H
2400.000	65.15	-9.39	55.76	74	-18.24	PK	H
2400.000	41.50	-9.39	32.11	54	-21.89	AV	H
2390.000	63.97	-9.2	54.77	74	-19.23	PK	V
2390.000	41.24	-9.2	32.04	54	-21.96	AV	V
2400.000	65.17	-9.39	55.78	74	-18.22	PK	V
2400.000	40.43	-9.39	31.04	54	-22.96	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	63.77	-9.29	54.48	74	-19.52	PK	H
2483.500	41.30	-9.29	32.01	54	-21.99	AV	H
2483.500	63.73	-9.29	54.44	74	-19.56	PK	V
2483.500	41.41	-9.29	32.12	54	-21.88	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	64.14	-9.2	54.94	74	-19.06	PK	H
2390.000	42.77	-9.2	33.57	54	-20.43	AV	H
2400.000	64.71	-9.39	55.32	74	-18.68	PK	H
2400.000	41.22	-9.39	31.83	54	-22.17	AV	H
2390.000	63.58	-9.2	54.38	74	-19.62	PK	V
2390.000	40.66	-9.2	31.46	54	-22.54	AV	V
2400.000	63.59	-9.39	54.20	74	-19.80	PK	V
2400.000	41.72	-9.39	32.33	54	-21.67	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	64.43	-9.29	55.14	74	-18.86	PK	H
2483.500	41.21	-9.29	31.92	54	-22.08	AV	H
2483.500	66.09	-9.29	56.80	74	-17.20	PK	V
2483.500	40.12	-9.29	30.83	54	-23.17	AV	V

Worse case mode:		802.11n(HT20)(MCS0)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
2390.000	65.34	-9.29	56.05	74	-17.95	PK	H
2390.000	41.03	-9.29	31.74	54	-22.26	AV	H
2400.000	63.58	-9.29	54.29	74	-19.71	PK	H
2400.000	41.75	-9.29	32.46	54	-21.54	AV	H
2390.000	65.42	-9.29	56.13	74	-17.87	PK	V
2390.000	41.26	-9.29	31.97	54	-22.03	AV	V
2400.000	64.34	-9.29	55.05	74	-18.95	PK	V
2400.000	41.37	-9.29	32.08	54	-21.92	AV	V

Worse case mode:		802.11n(HT20)(MCS0)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
2483.500	65.78	-9.29	56.49	74	-17.51	PK	H
2483.500	43.03	-9.29	33.74	54	-20.26	AV	H
2483.500	65.01	-9.29	55.72	74	-18.28	PK	V
2483.500	42.33	-9.29	33.04	54	-20.96	AV	V



Worse case mode:		802.11n(HT40)(MCS0)		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	65.53	-9.29	56.24	74	-17.76	PK	H
2390.000	41.94	-9.29	32.65	54	-21.35	AV	H
2400.000	64.03	-9.29	54.74	74	-19.26	PK	H
2400.000	41.86	-9.29	32.57	54	-21.43	AV	H
2390.000	64.03	-9.29	54.74	74	-19.26	PK	V
2390.000	40.34	-9.29	31.05	54	-22.95	AV	V
2400.000	66.12	-9.29	56.83	74	-17.17	PK	V
2400.000	42.45	-9.29	33.16	54	-20.84	AV	V

Worse case mode:		802.11n(HT40)(MCS0)		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	64.54	-9.29	55.25	74	-18.75	PK	H
2483.500	40.65	-9.29	31.36	54	-22.64	AV	H
2483.500	65.59	-9.29	56.30	74	-17.70	PK	V
2483.500	42.07	-9.29	32.78	54	-21.22	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:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

ANT2

Worse case mode:		802.11b(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
2390.000	63.96	-9.2	54.76	74	-19.24	PK	H
2390.000	42.61	-9.2	33.41	54	-20.59	AV	H
2400.000	64.55	-9.39	55.16	74	-18.84	PK	H
2400.000	40.81	-9.39	31.42	54	-22.58	AV	H
2390.000	64.23	-9.2	55.03	74	-18.97	PK	V
2390.000	41.55	-9.2	32.35	54	-21.65	AV	V
2400.000	65.16	-9.39	55.77	74	-18.23	PK	V
2400.000	41.10	-9.39	31.71	54	-22.29	AV	V

Worse case mode:		802.11b(1Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
2483.500	64.77	-9.29	55.48	74	-18.52	PK	H
2483.500	42.14	-9.29	32.85	54	-21.15	AV	H
2483.500	65.94	-9.29	56.65	74	-17.35	PK	V
2483.500	40.36	-9.29	31.07	54	-22.93	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	64.69	-9.2	55.49	74	-18.51	PK	H
2390.000	42.37	-9.2	33.17	54	-20.83	AV	H
2400.000	66.34	-9.39	56.95	74	-17.05	PK	H
2400.000	42.10	-9.39	32.71	54	-21.29	AV	H
2390.000	63.89	-9.2	54.69	74	-19.31	PK	V
2390.000	42.71	-9.2	33.51	54	-20.49	AV	V
2400.000	64.65	-9.39	55.26	74	-18.74	PK	V
2400.000	42.58	-9.39	33.19	54	-20.81	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	63.72	-9.29	54.43	74	-19.57	PK	H
2483.500	40.23	-9.29	30.94	54	-23.06	AV	H
2483.500	64.42	-9.29	55.13	74	-18.87	PK	V
2483.500	40.35	-9.29	31.06	54	-22.94	AV	V

Worse case mode:		802.11n(HT20)(MCS0)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
2390.000	63.68	-9.29	54.39	74	-19.61	PK	H
2390.000	40.78	-9.29	31.49	54	-22.51	AV	H
2400.000	64.39	-9.29	55.10	74	-18.90	PK	H
2400.000	41.55	-9.29	32.26	54	-21.74	AV	H
2390.000	64.33	-9.29	55.04	74	-18.96	PK	V
2390.000	40.30	-9.29	31.01	54	-22.99	AV	V
2400.000	66.44	-9.29	57.15	74	-16.85	PK	V
2400.000	40.69	-9.29	31.40	54	-22.60	AV	V

Worse case mode:		802.11n(HT20)(MCS0)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V
2483.500	64.91	-9.29	55.62	74	-18.38	PK	H
2483.500	41.18	-9.29	31.89	54	-22.11	AV	H
2483.500	65.47	-9.29	56.18	74	-17.82	PK	V
2483.500	41.51	-9.29	32.22	54	-21.78	AV	V

Worse case mode:		802.11n(HT40)(MCS0)		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	66.07	-9.29	56.78	74	-17.22	PK	H
2390.000	41.73	-9.29	32.44	54	-21.56	AV	H
2400.000	65.80	-9.29	56.51	74	-17.49	PK	H
2400.000	41.01	-9.29	31.72	54	-22.28	AV	H
2390.000	65.12	-9.29	55.83	74	-18.17	PK	V
2390.000	40.75	-9.29	31.46	54	-22.54	AV	V
2400.000	64.41	-9.29	55.12	74	-18.88	PK	V
2400.000	42.09	-9.29	32.80	54	-21.20	AV	V

Worse case mode:		802.11n(HT40)(MCS0)		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	66.38	-9.29	57.09	74	-16.91	PK	H
2483.500	40.70	-9.29	31.41	54	-22.59	AV	H
2483.500	66.03	-9.29	56.74	74	-17.26	PK	V
2483.500	41.03	-9.29	31.74	54	-22.26	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*

**Combine with ANT1 and ANT2:**

Worse case mode:		802.11n(HT20)(MCS0)		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	64.32	-9.29	55.03	74	-18.97	PK	H
2390.000	41.64	-9.29	32.35	54	-21.65	AV	H
2400.000	65.17	-9.29	55.88	74	-18.12	PK	H
2400.000	40.19	-9.29	30.90	54	-23.10	AV	H
2390.000	65.85	-9.29	56.56	74	-17.44	PK	V
2390.000	42.48	-9.29	33.19	54	-20.81	AV	V
2400.000	64.15	-9.29	54.86	74	-19.14	PK	V
2400.000	41.51	-9.29	32.22	54	-21.78	AV	V

Worse case mode:		802.11n(HT20)(MCS0)		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	65.59	-9.29	56.30	74	-17.70	PK	H
2483.500	40.56	-9.29	31.27	54	-22.73	AV	H
2483.500	66.34	-9.29	57.05	74	-16.95	PK	V
2483.500	41.15	-9.29	31.86	54	-22.14	AV	V

Worse case mode:		802.11n(HT40)(MCS0)		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	64.29	-9.29	55.00	74	-19.00	PK	H
2390.000	41.44	-9.29	32.15	54	-21.85	AV	H
2400.000	66.30	-9.29	57.01	74	-16.99	PK	H
2400.000	41.65	-9.29	32.36	54	-21.64	AV	H
2390.000	66.11	-9.29	56.82	74	-17.18	PK	V
2390.000	42.54	-9.29	33.25	54	-20.75	AV	V
2400.000	66.26	-9.29	56.97	74	-17.03	PK	V
2400.000	41.78	-9.29	32.49	54	-21.51	AV	V

Worse case mode:		802.11n(HT40)(MCS0)		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	65.30	-9.29	56.01	74	-17.99	PK	H
2483.500	41.46	-9.29	32.17	54	-21.83	AV	H
2483.500	64.08	-9.29	54.79	74	-19.21	PK	V
2483.500	41.84	-9.29	32.55	54	-21.45	AV	V

**Note:**

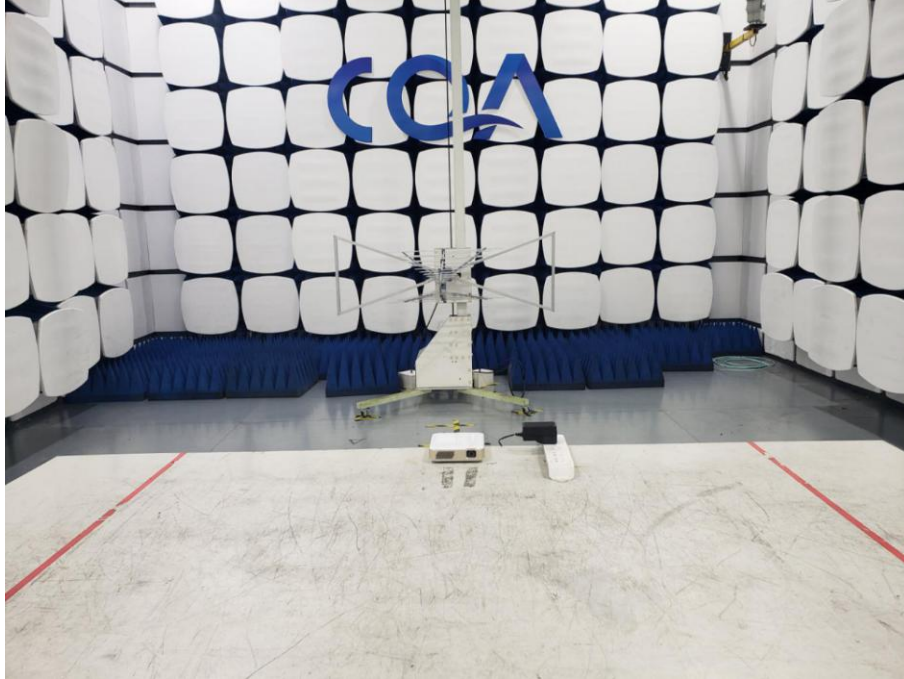
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

## 7 Photographs - EUT Test Setup

Please refer to the test setup file

**30MHz~1GHz:**



**9kHz~30MHz:**





**Above 1GHz:**



**Conducted emission Test Setup**



## 8 Photographs - EUT Constructional Details

Please refer to the report No.: CQASZ20210100004EX-01

**THE END**