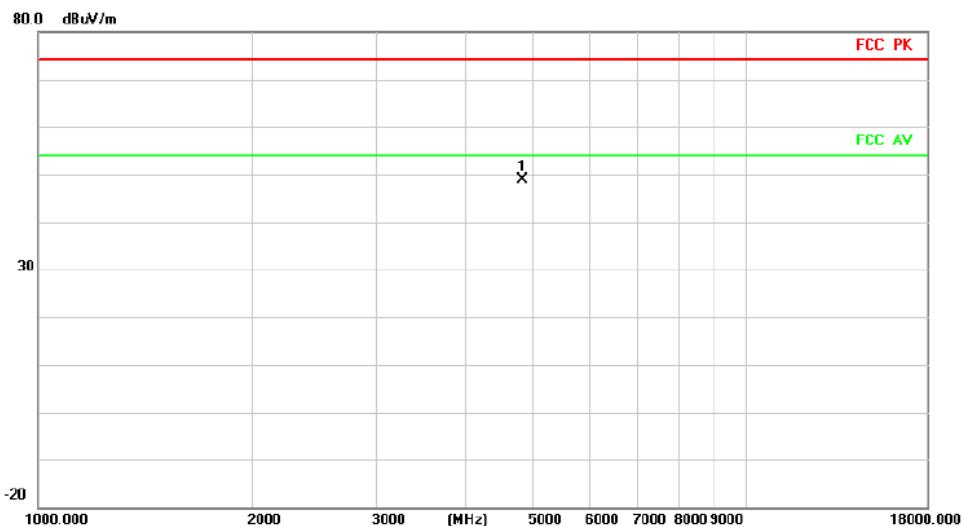




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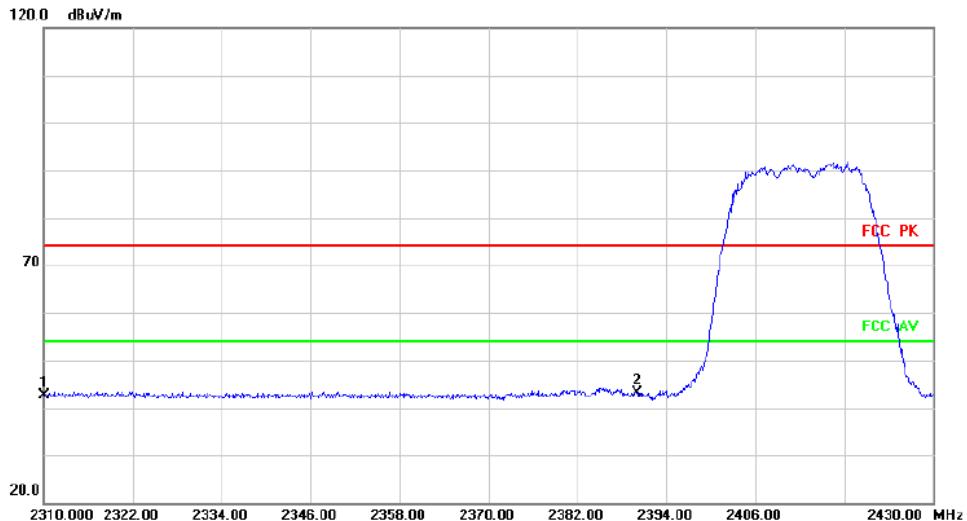
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
		MHz	dB _{uV}	dB/m	dB _{uV/m}	dB _{uV/m}	dB	Detector	cm degree
1	*	4824.000	33.10	15.82	48.92	74.00	-25.08	peak	

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
		MHz	dB _{uV}	dB/m	dB _{uV/m}	dB _{uV/m}	dB	Detector	cm degree
1		2310.000	34.53	8.22	42.75	74.00	-31.25	peak	
2	*	2390.000	34.70	8.46	43.16	74.00	-30.84	peak	



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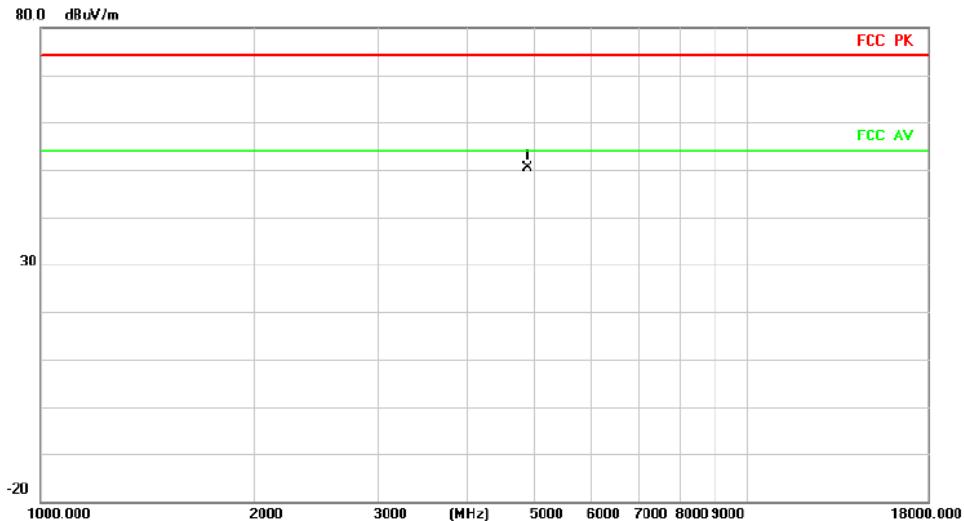
Above 1G (1GHz~18GHz)

Test mode:11N20SISO

Test Channel:6

VERTICAL

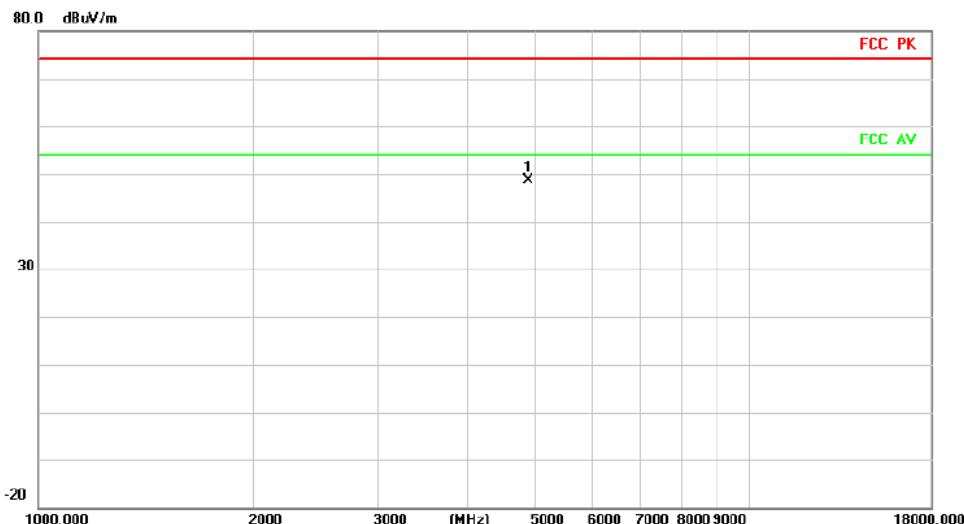
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	4874.000	34.98	15.44	50.42	74.00	-23.58	peak			

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	4874.000	33.25	15.44	48.69	74.00	-25.31	peak			



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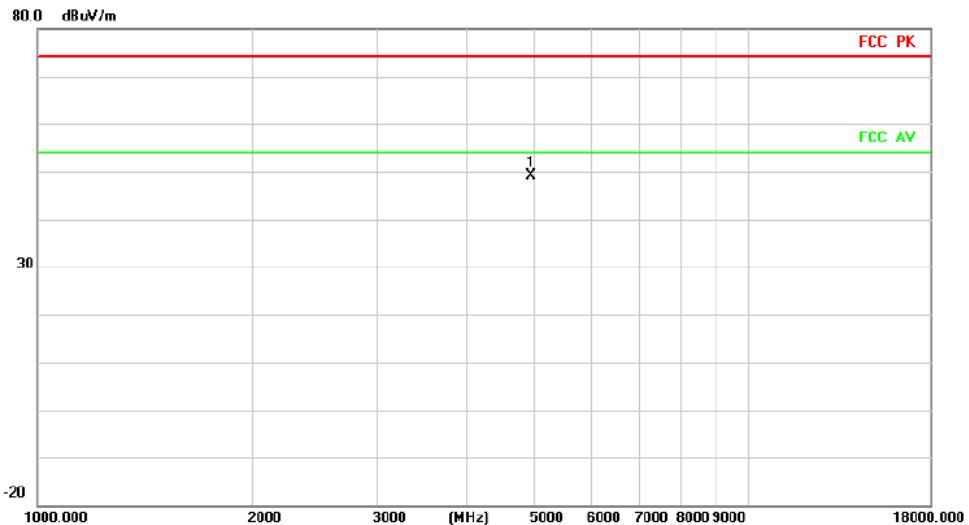
Above 1G (1GHz~18GHz)

Test mode: 11N20SISO

Test Channel:11

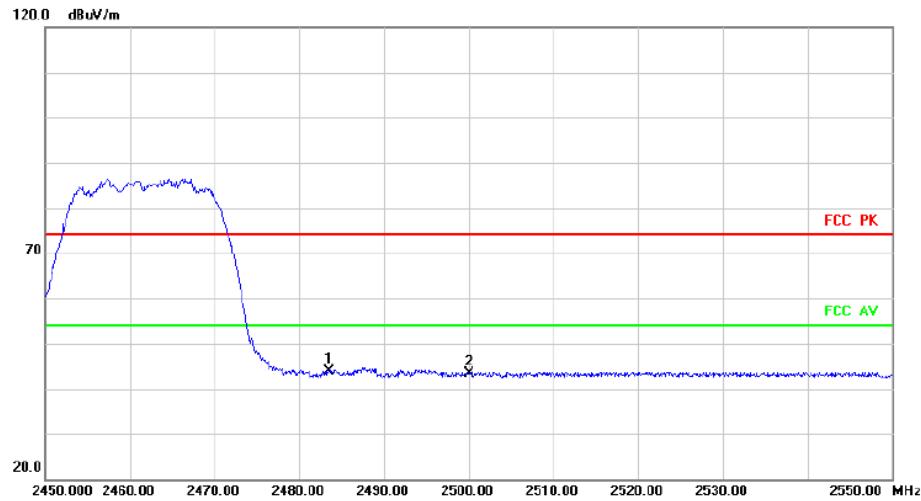
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment					Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	4924.000	34.01	15.10	49.11	74.00	-24.89	peak			

Radiated Emission

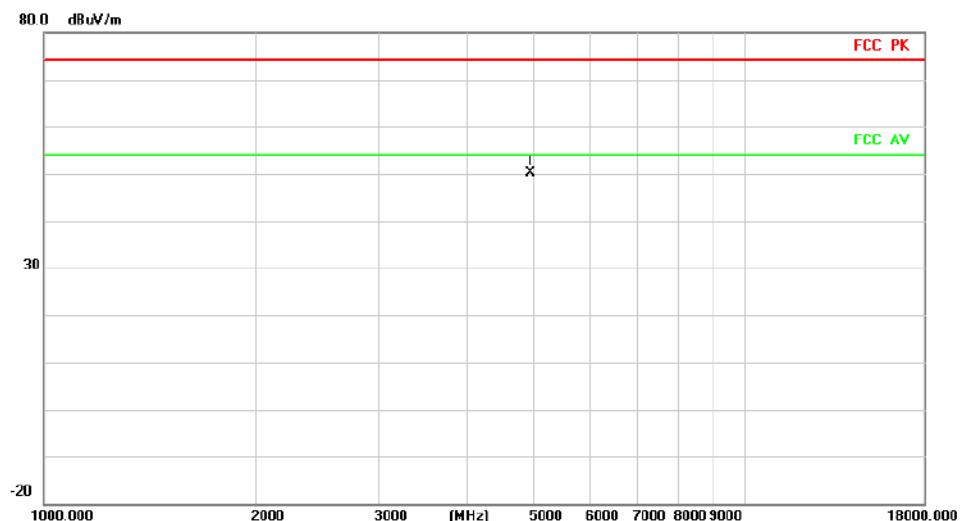


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment					Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	34.81	9.10	43.91	74.00	-30.09	peak			
2		2500.000	34.11	9.26	43.37	74.00	-30.63	peak			



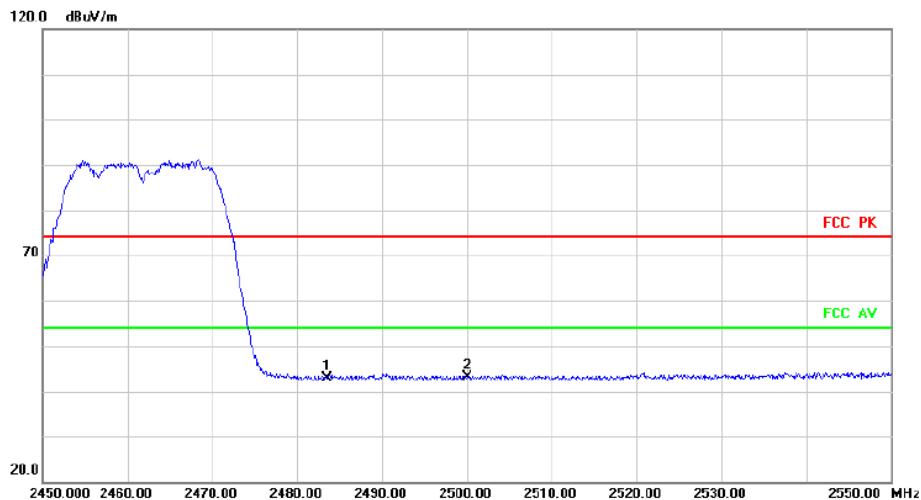
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *		4924.000	34.94	15.10	50.04	74.00	-23.96	peak			

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	33.75	9.10	42.85	74.00	-31.15	peak			
2 *		2500.000	33.94	9.26	43.20	74.00	-30.80	peak			



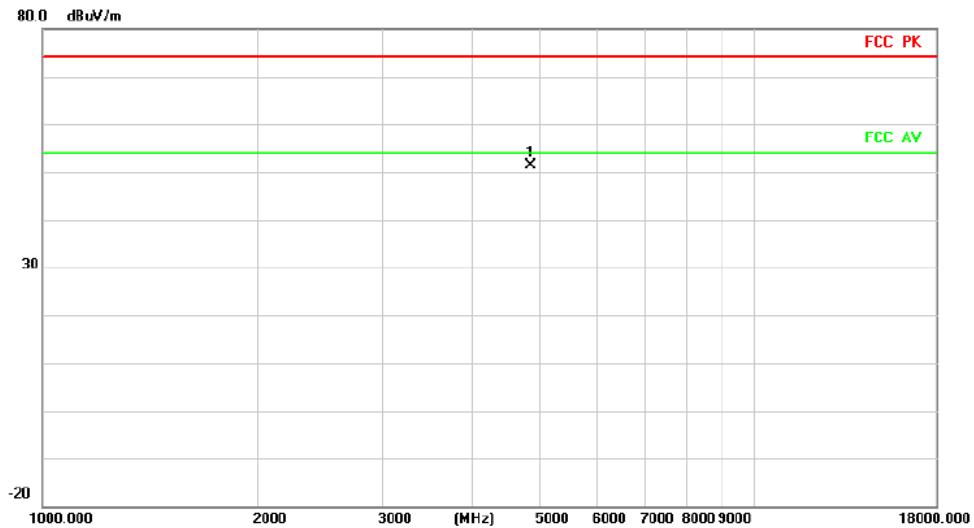
Above 1G (1GHz~18GHz)

Test mode: 11N40SISO

Test Channel:3

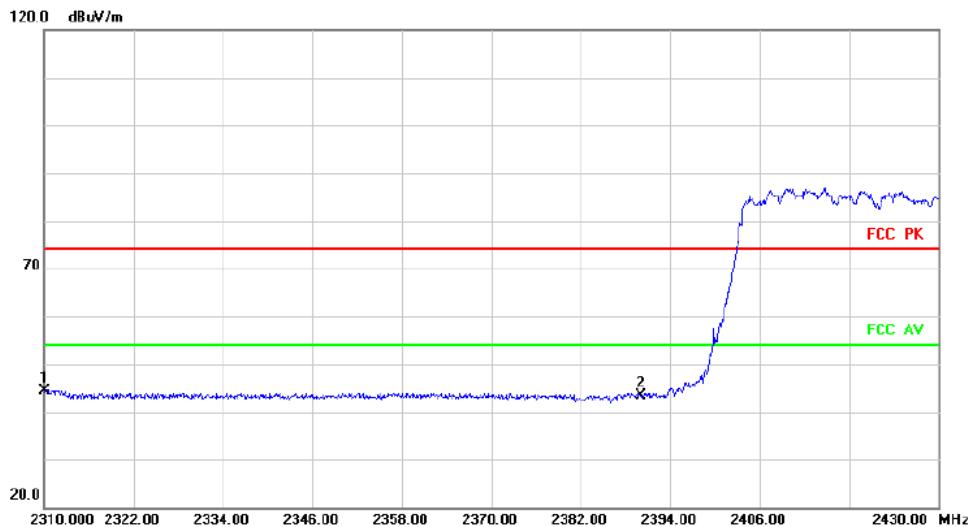
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	4844.000	35.81	15.62	51.43	74.00	-22.57	peak			

Radiated Emission



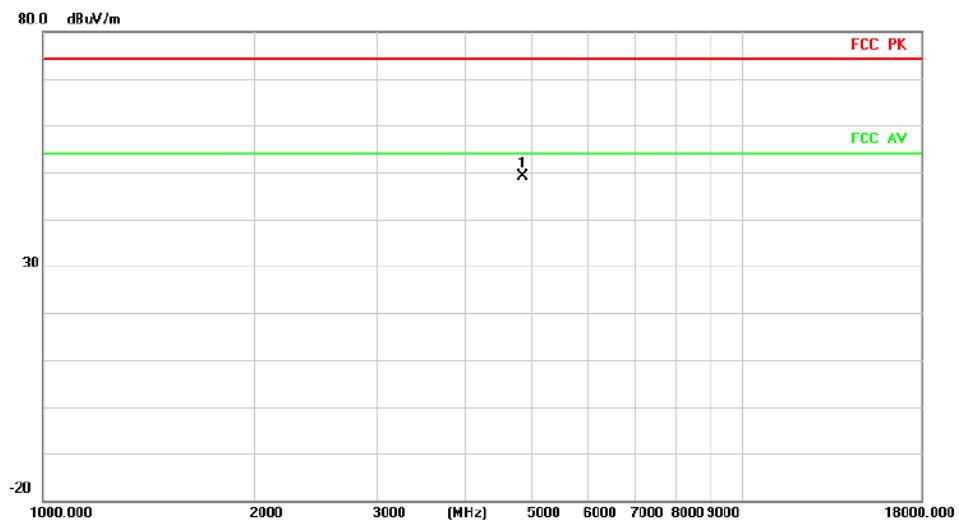
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2310.000	36.23	8.22	44.45	74.00	-29.55	peak			
2		2390.000	34.82	8.46	43.28	74.00	-30.72	peak			



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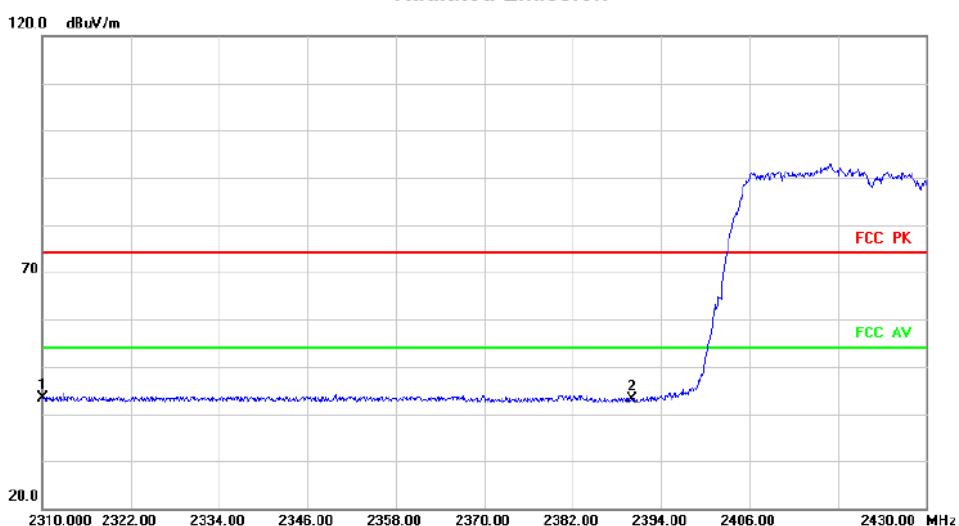
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	4844.000	33.57	15.62	49.19	74.00	-24.81	peak			

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2310.000	35.28	8.22	43.50	74.00	-30.50	peak			
2		2390.000	34.70	8.46	43.16	74.00	-30.84	peak			



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Above 1G (1GHz~18GHz)

Test mode:11N40SISO

Test Channel:6

VERTICAL

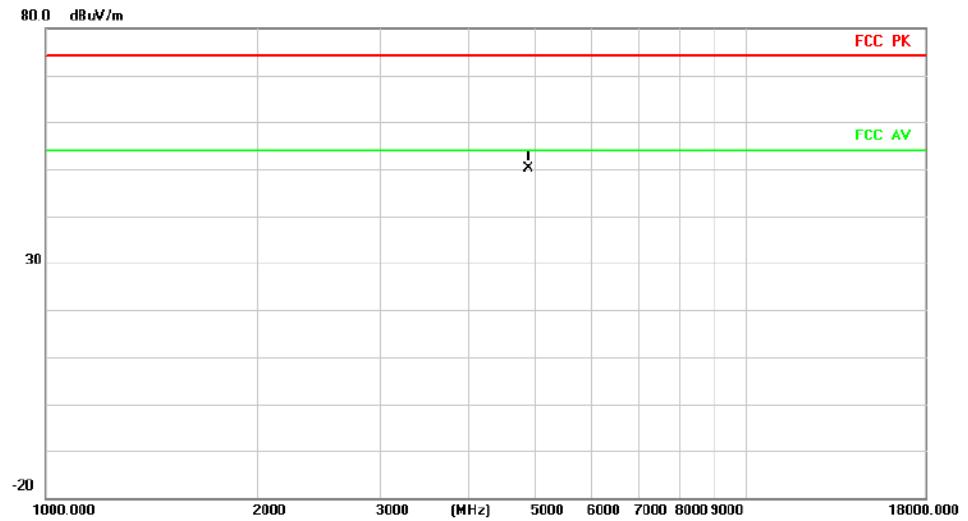
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	4874.000	33.98	15.44	49.42	74.00	-24.58	peak			

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	4874.000	34.70	15.44	50.14	74.00	-23.86	peak			



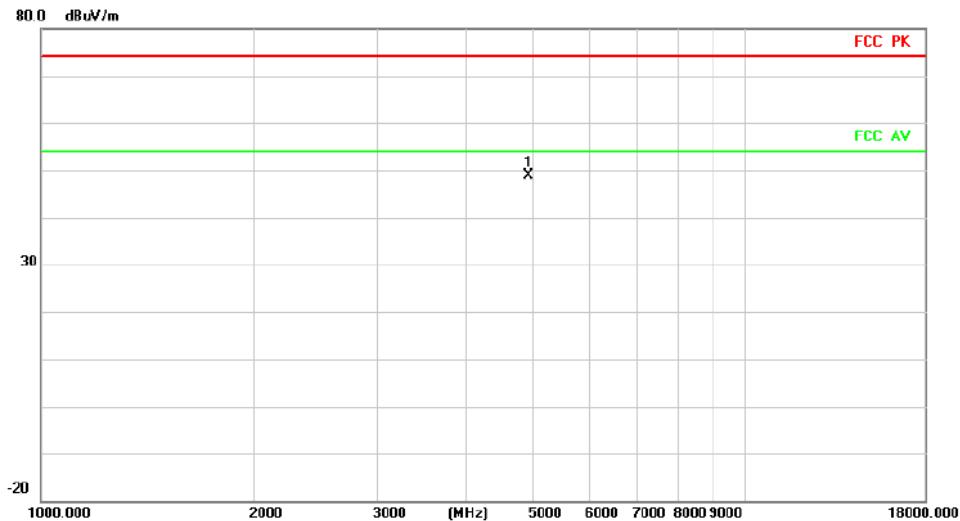
Above 1G (1GHz~18GHz)

Test mode: 11N40SISO

Test Channel:9

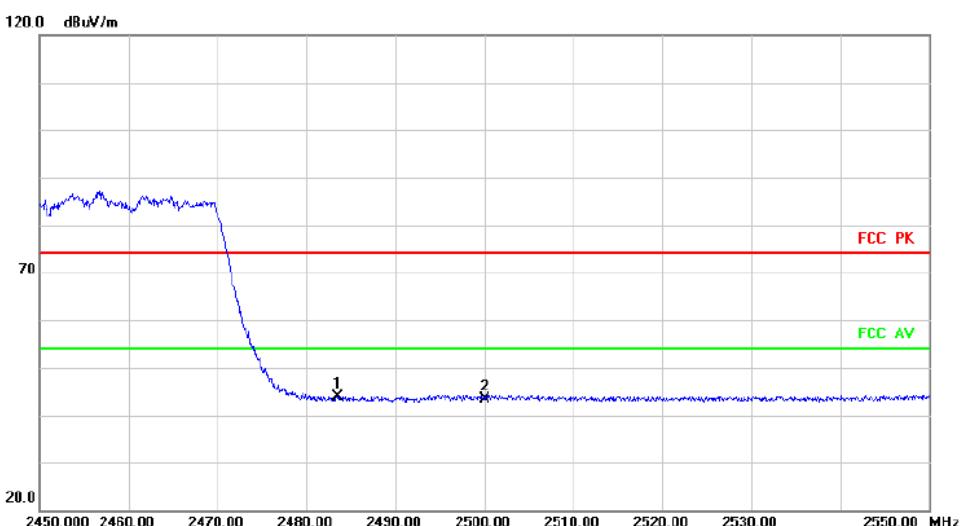
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm degree
1	*	4904.000	33.58	15.26	48.84	74.00	-25.16	peak	

Radiated Emission

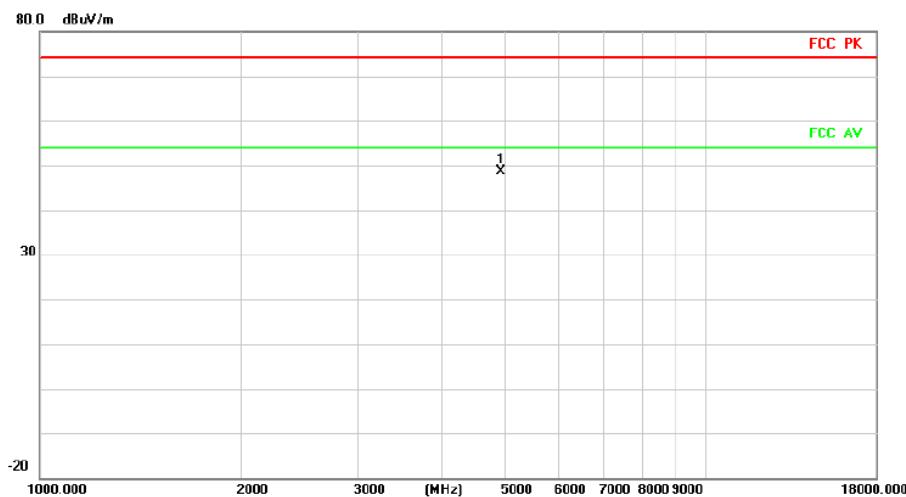


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm degree
1	*	2483.500	34.72	9.10	43.82	74.00	-30.18	peak	
2		2500.000	34.23	9.26	43.49	74.00	-30.51	peak	



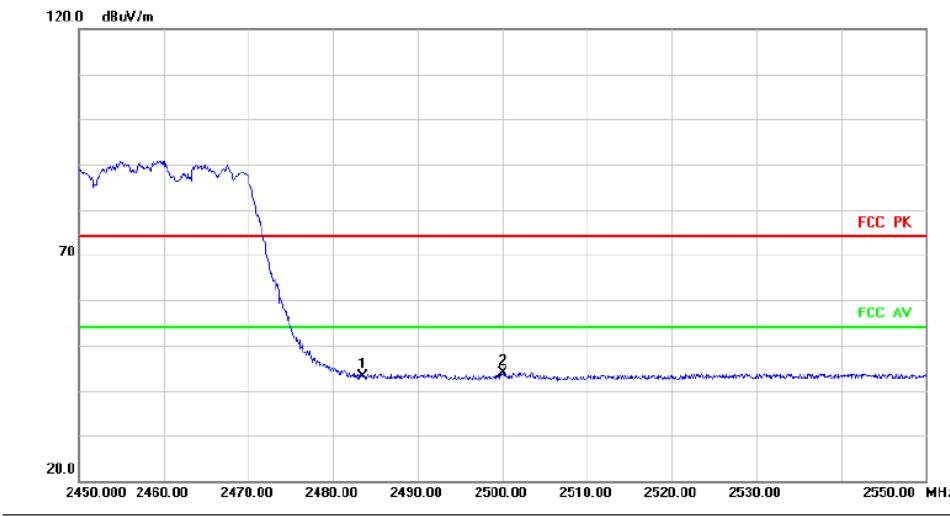
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm degree Comment
1	*	4904.000	33.33	15.26	48.59	74.00	-25.41	peak	

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm degree Comment
1		2483.500	33.95	9.10	43.05	74.00	-30.95	peak	
2	*	2500.000	34.59	9.26	43.85	74.00	-30.15	peak	

The high frequency, which started from 18GHz to 26.5GHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

3.3 Spurious Emission at Antenna Port

3.3.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

3.3.2 Test Procedure

Test Method	
● Conducted Measurement	<input type="radio"/> Radiated Measurement
Test Channels	
● Lowest, Middle and Highest Channel	<input type="radio"/> Lowest and Highest Channel
Environmental conditions	
● Normal	<input type="radio"/> Normal and Extreme

Note: ● : Test ○ : No Test

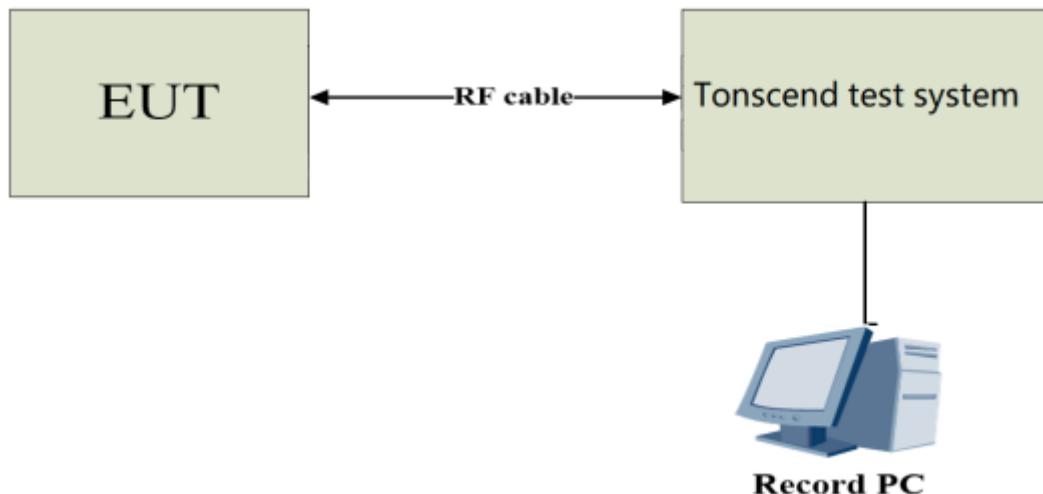
a) The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.

b) Spectrum Setting as below:

Centre Frequency	The centre frequency of the channel under test
Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto



3.3.3 Test Setup

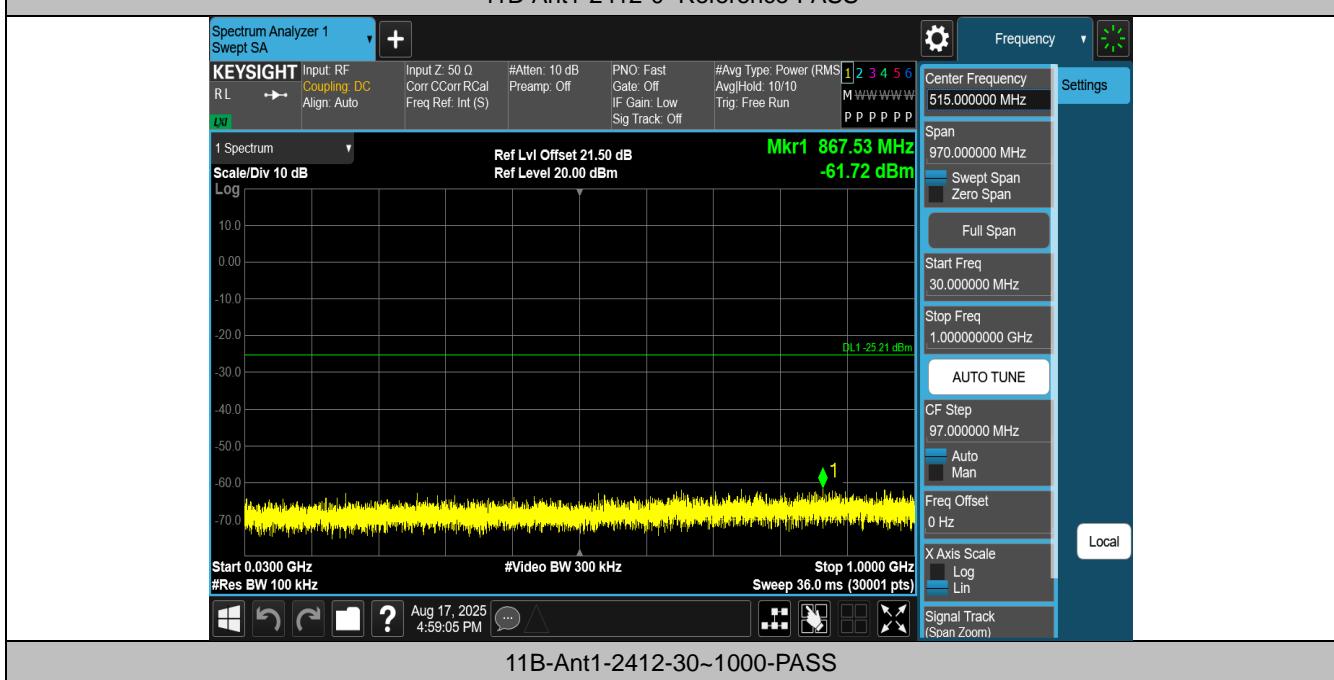


4

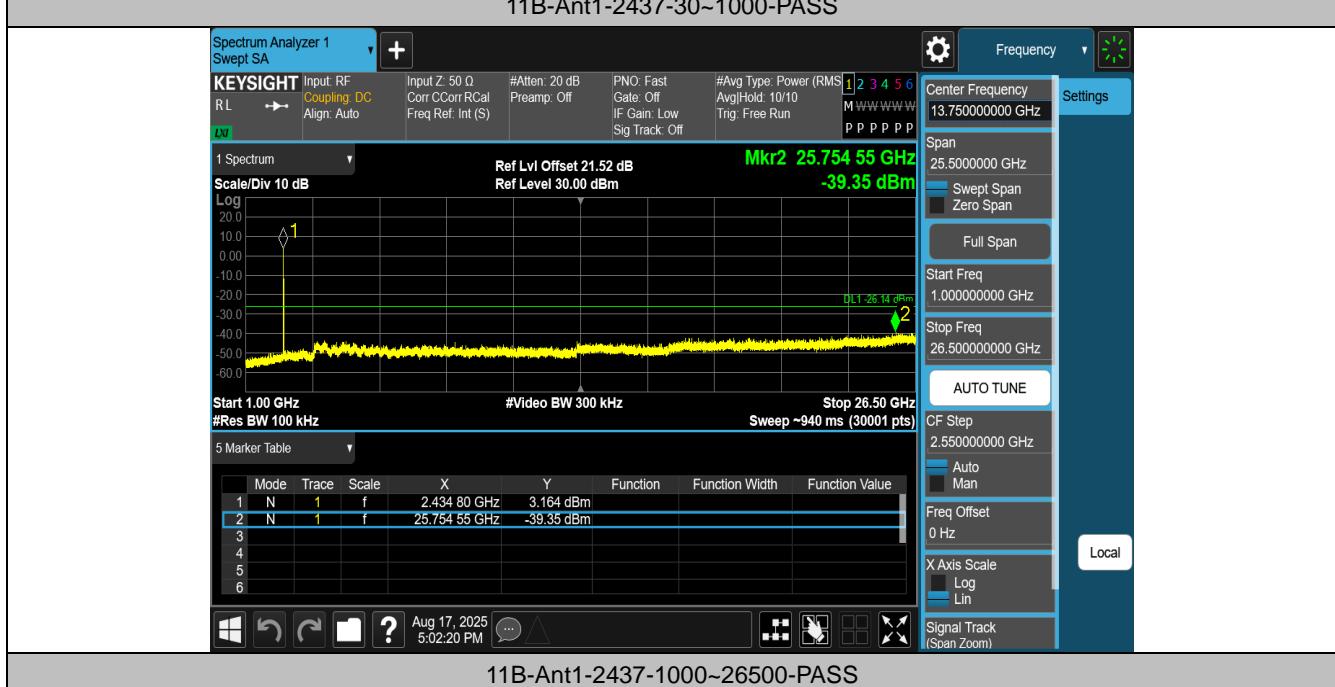


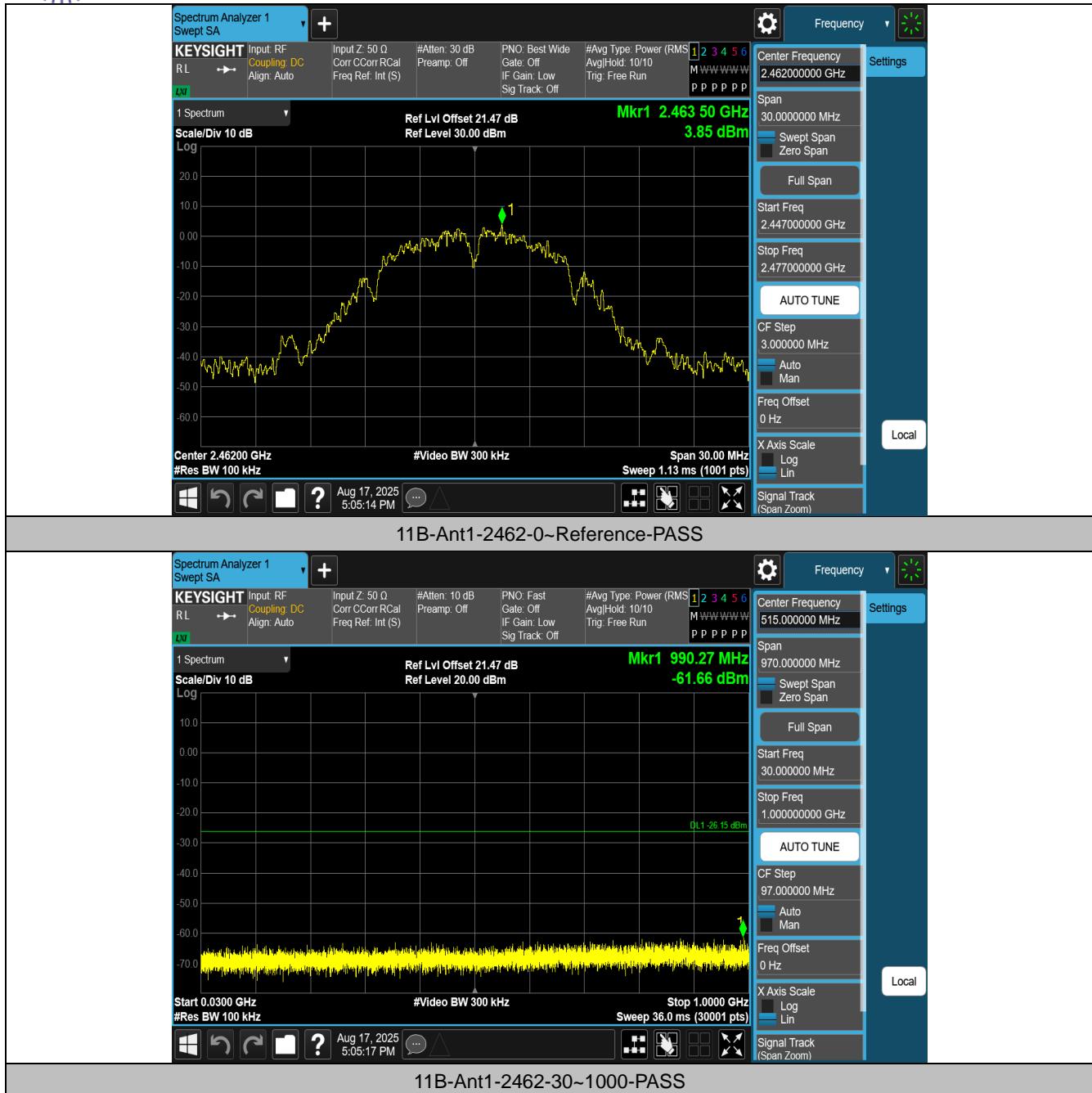
3.3.4 The Result

Conducted Spurious Emission

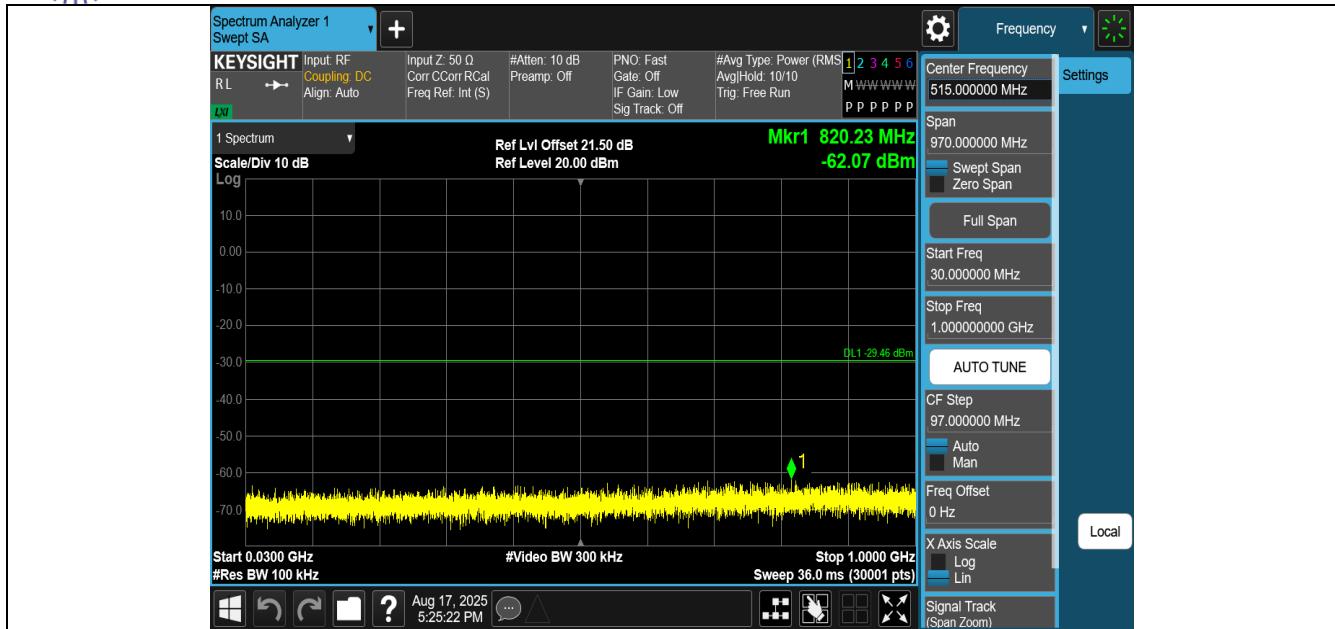




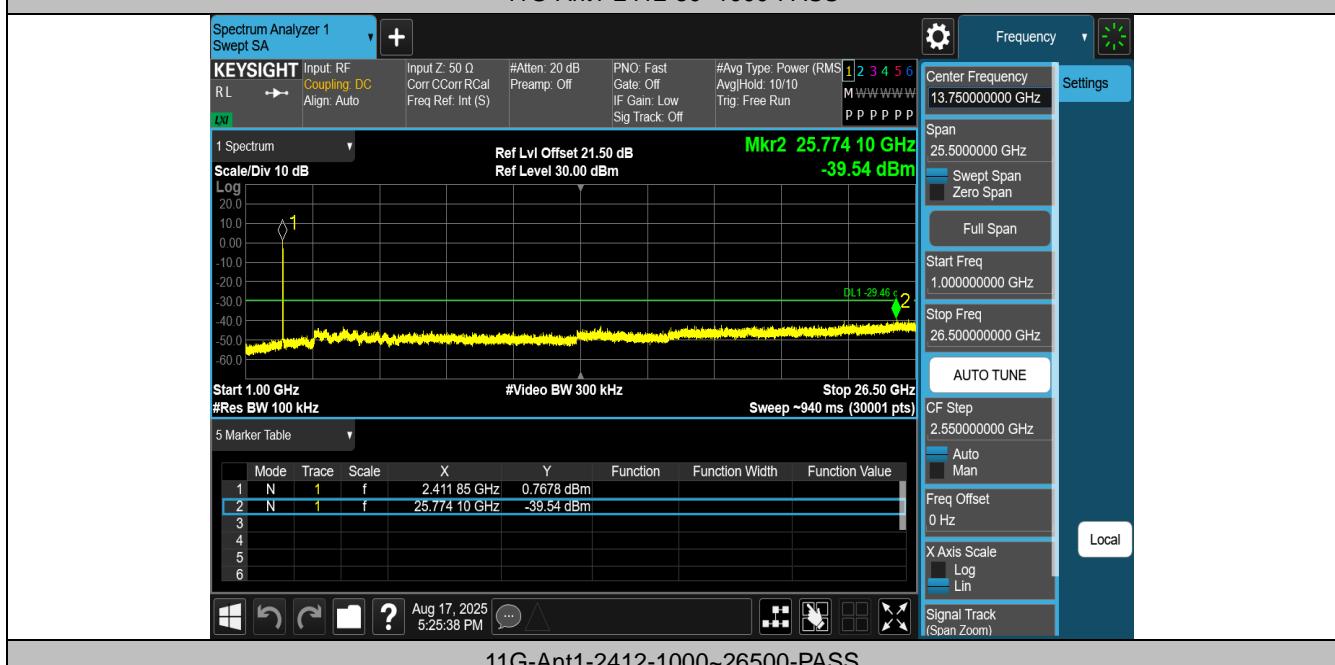








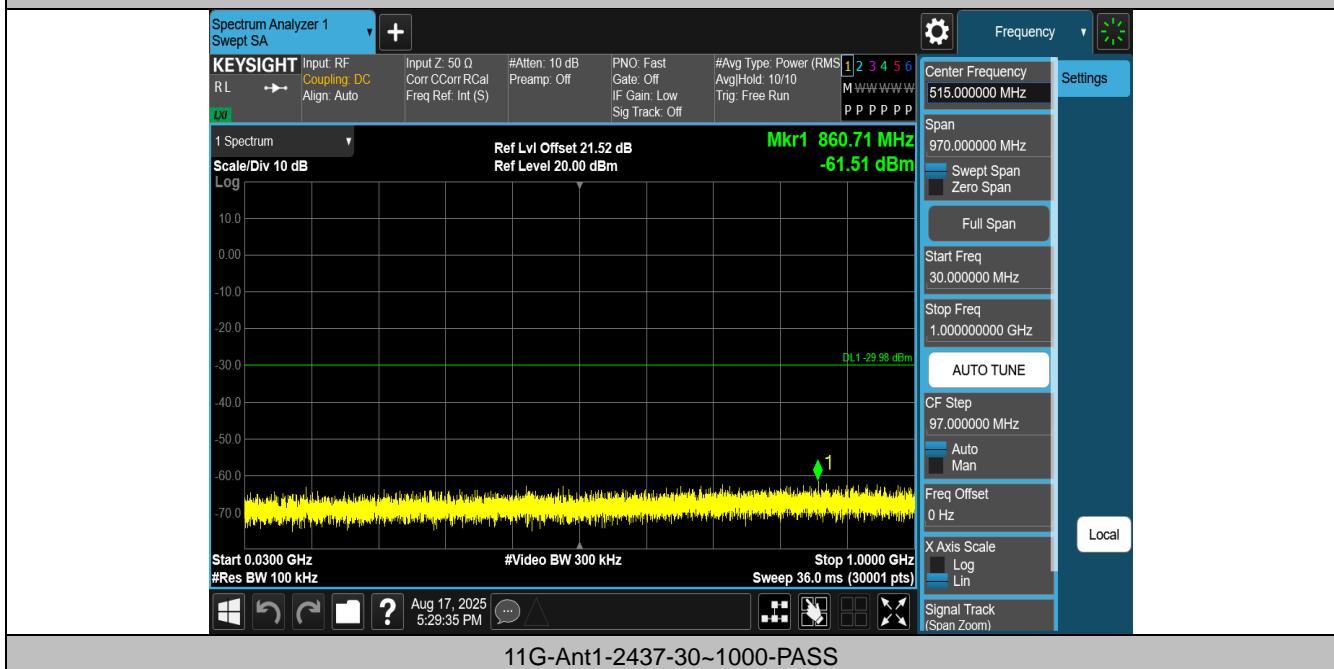
11G-Ant1-2412-30~1000-PASS



11G-Ant1-2412-1000~26500-PASS

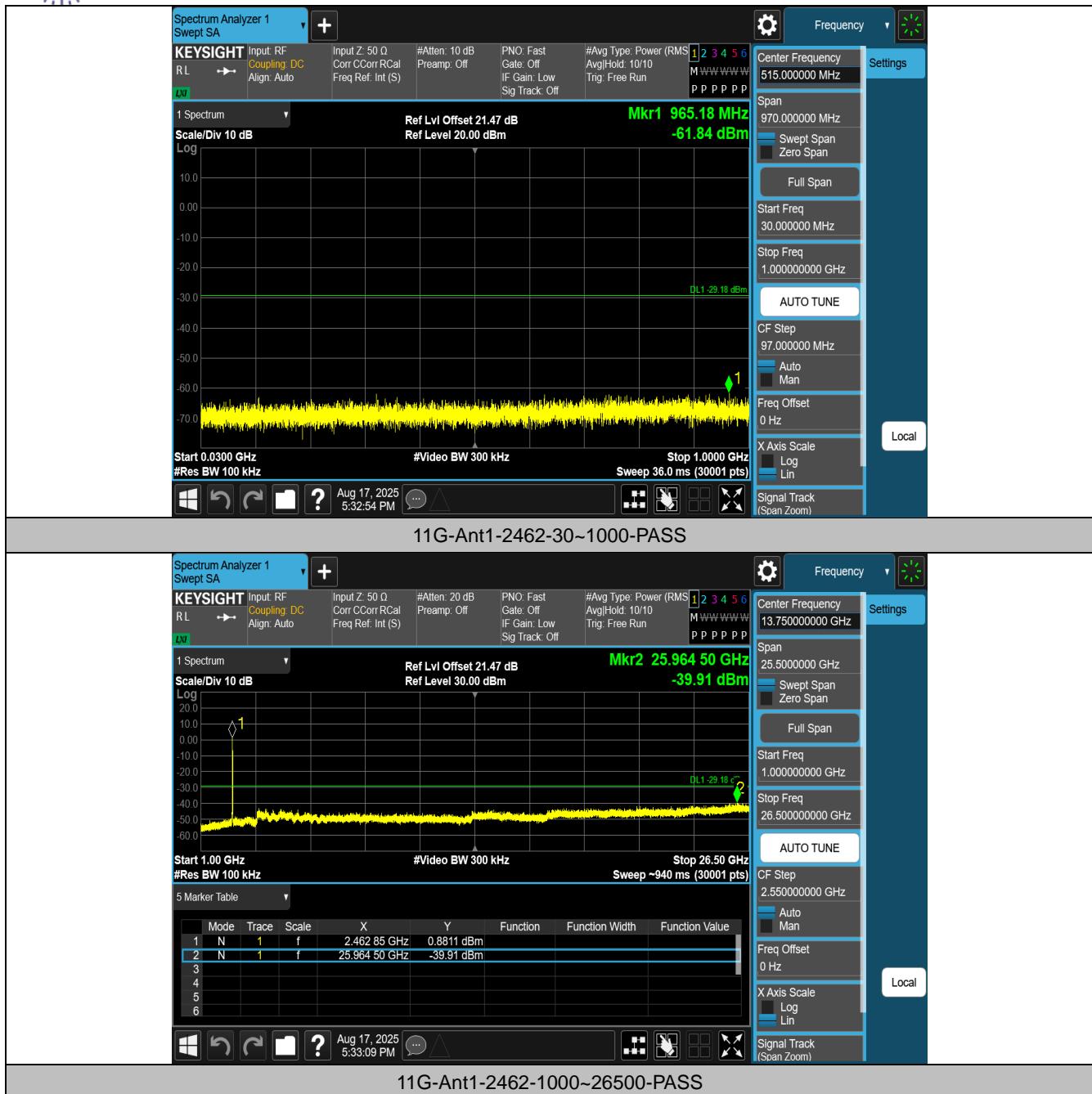


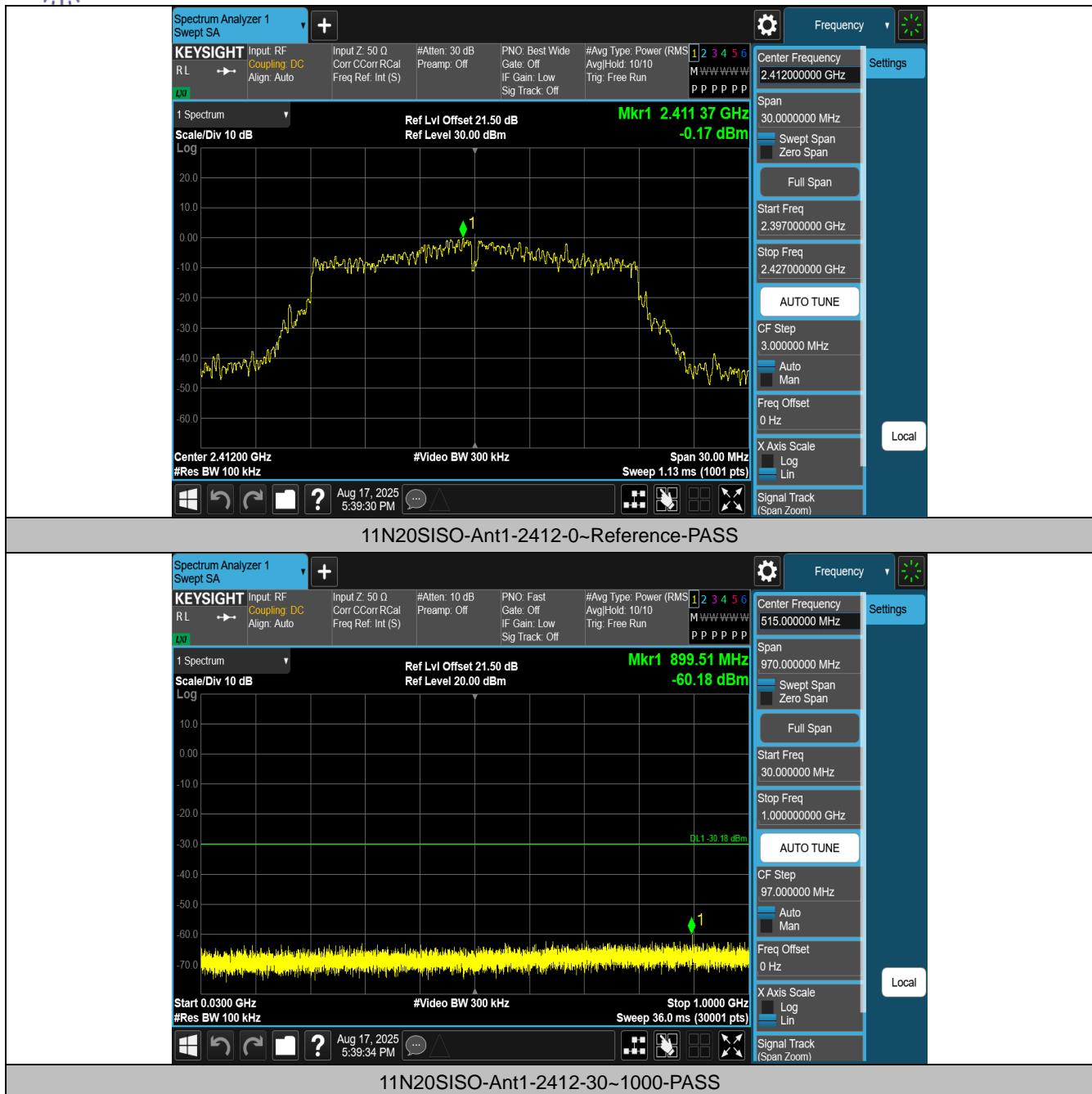
11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS

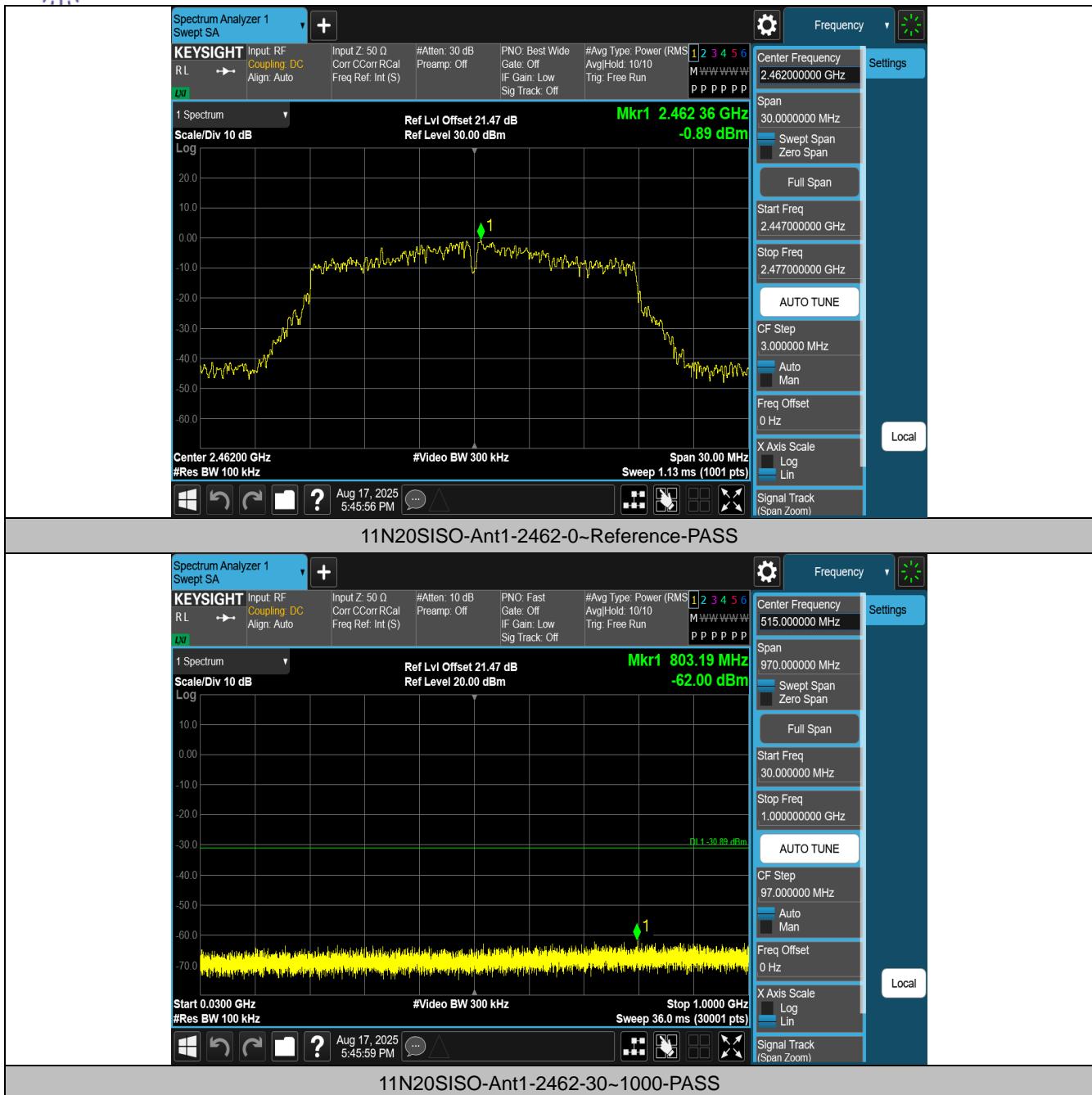






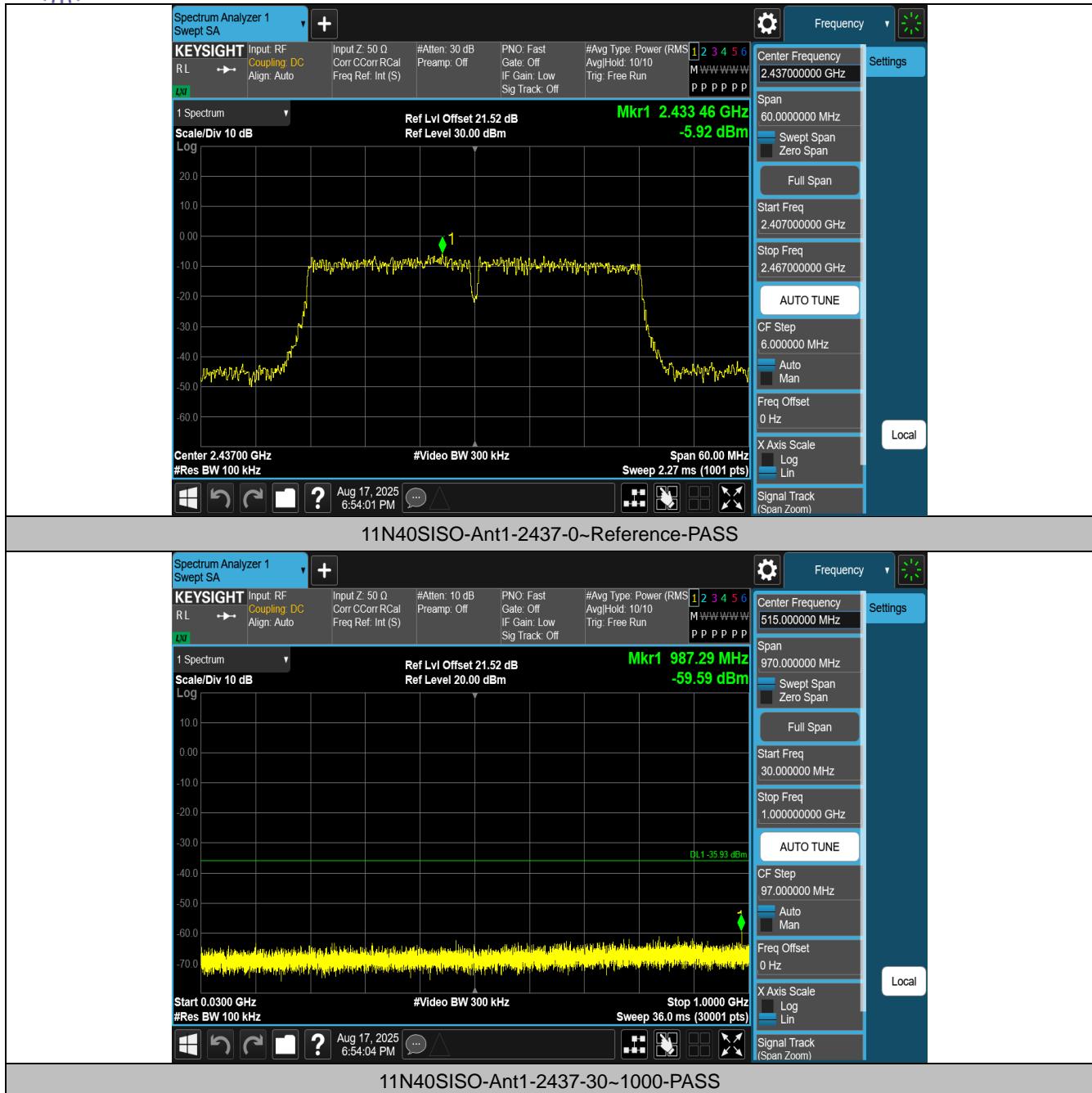




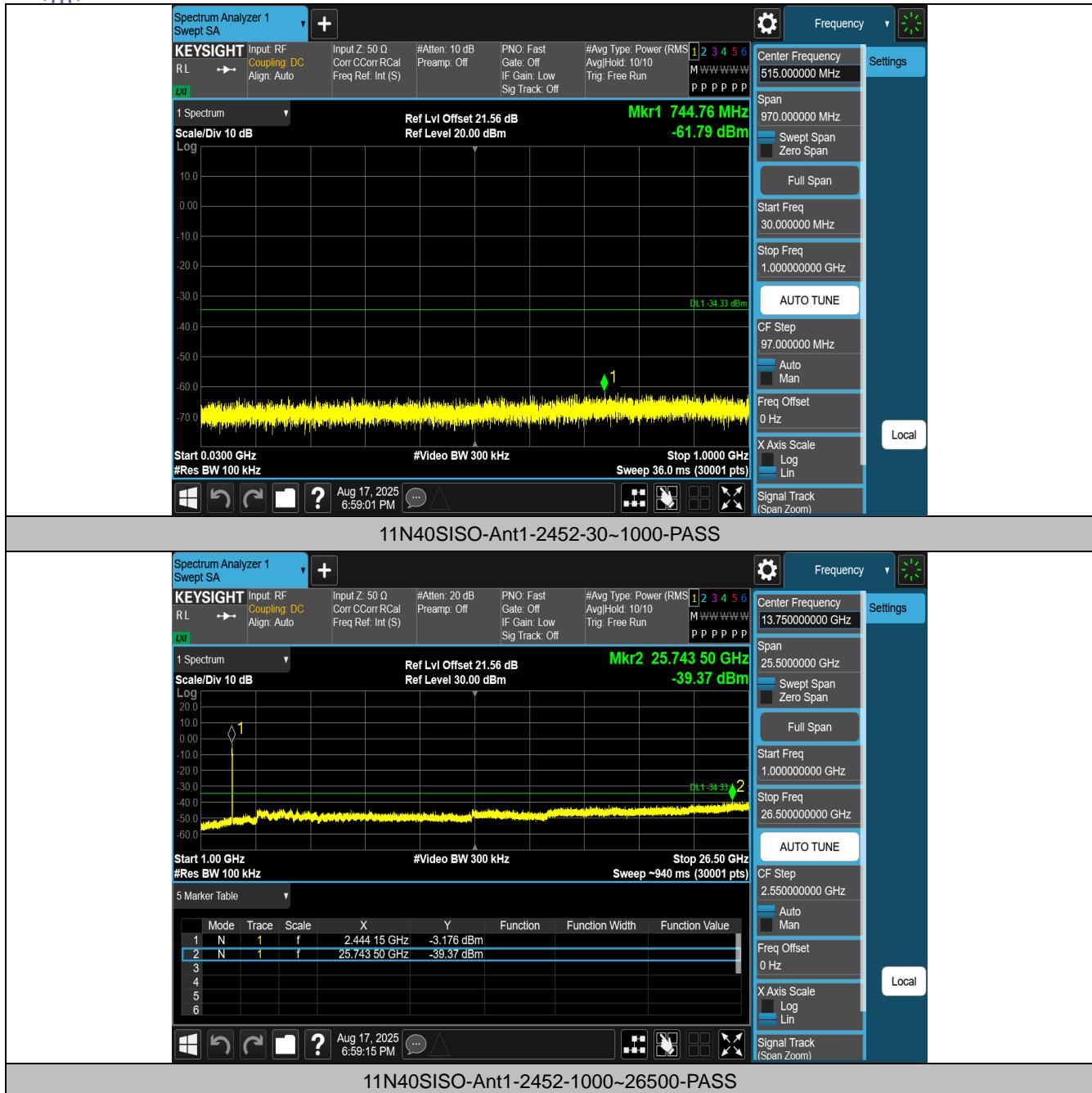








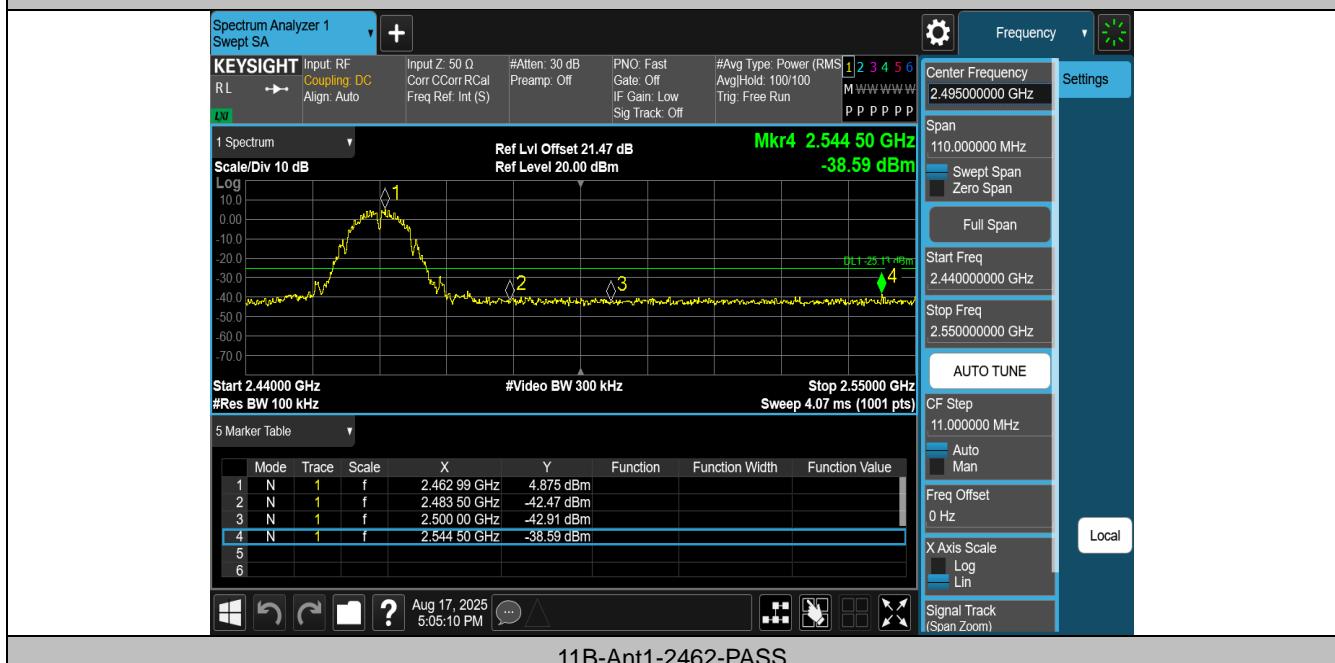




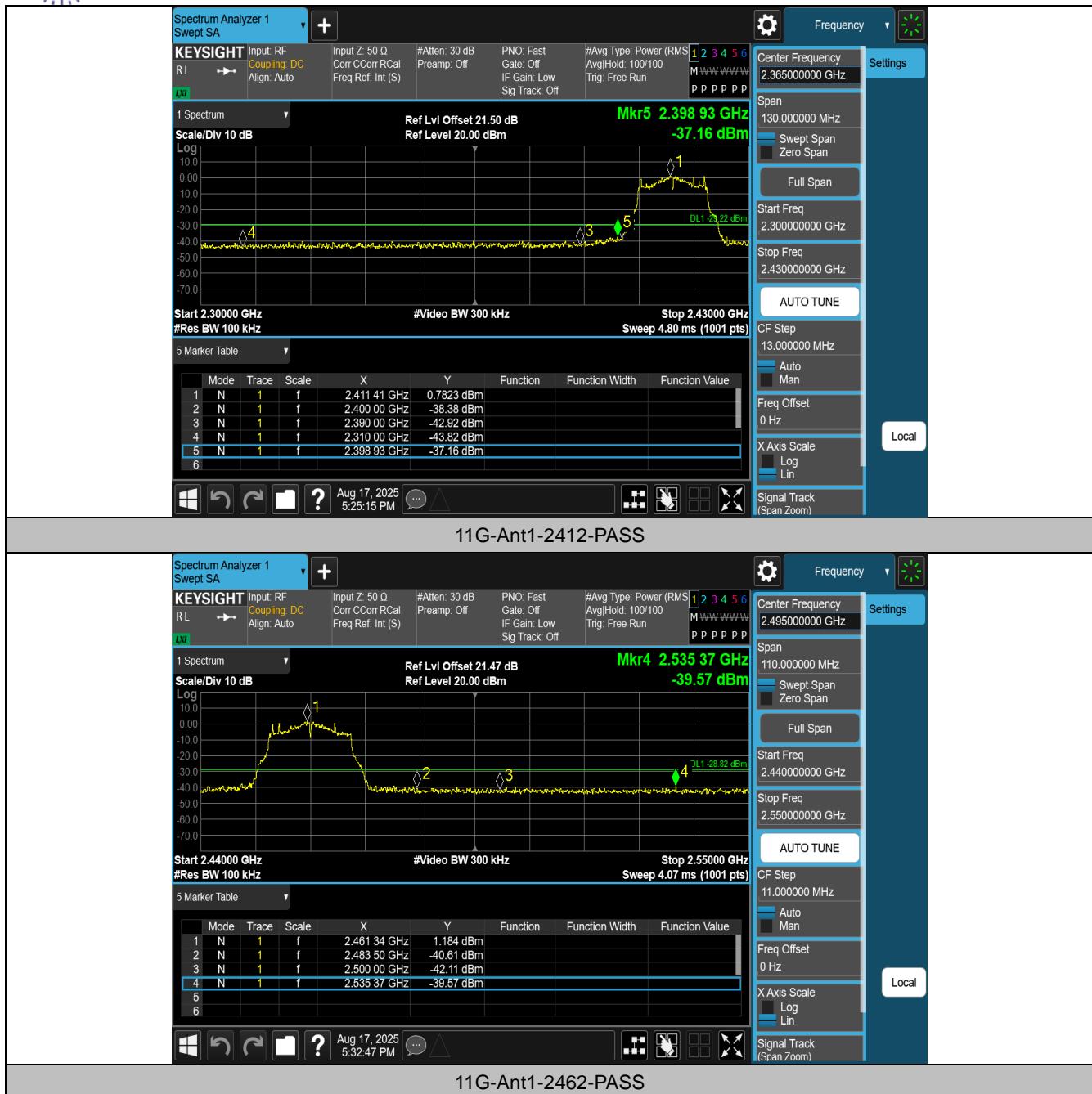
Band edge

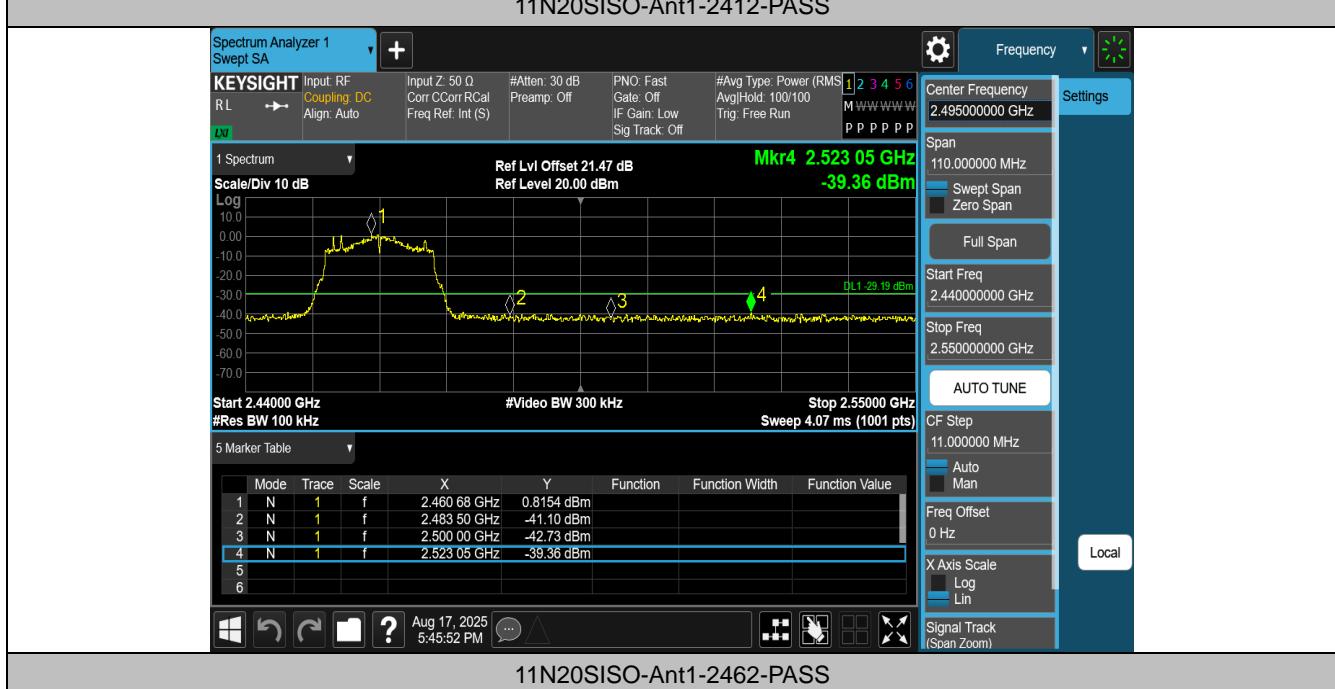
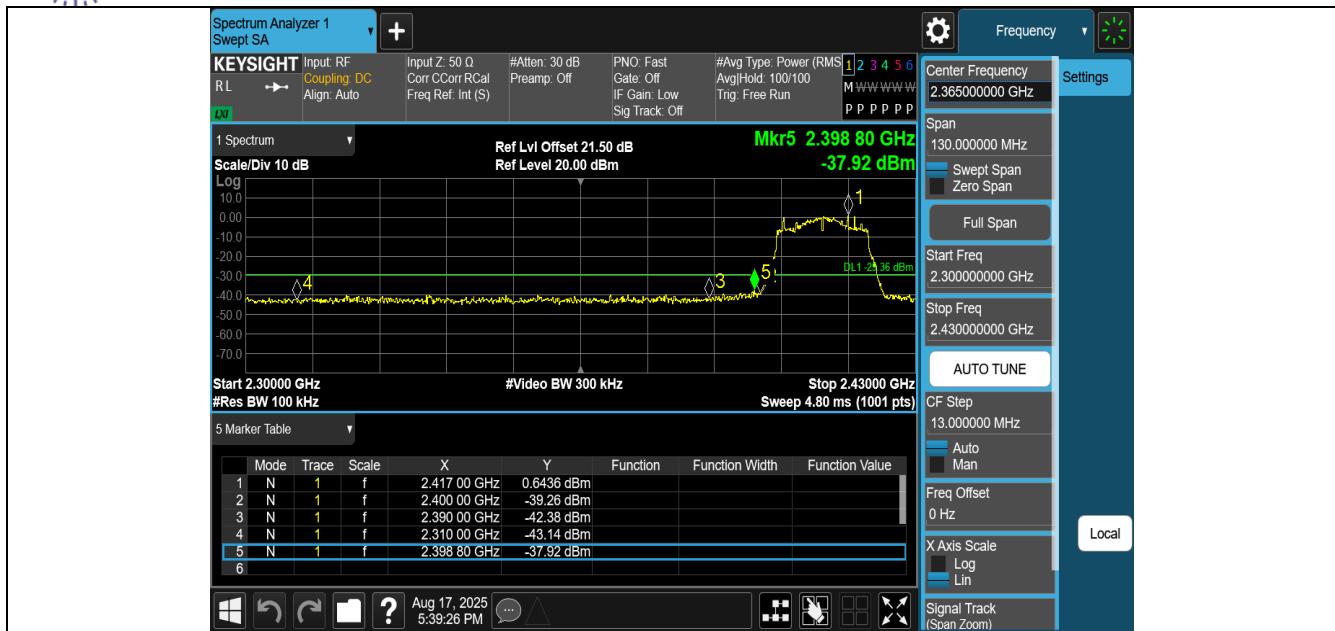


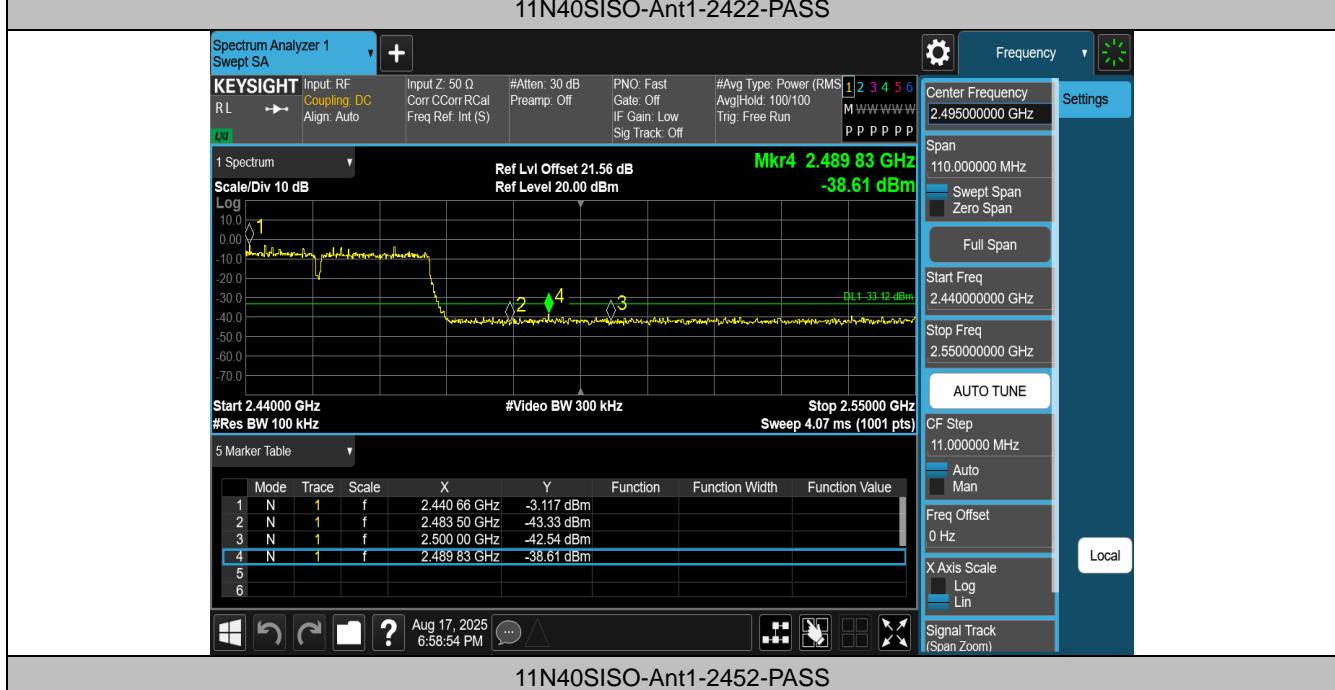
11B-Ant1-2412-PASS



11B-Ant1-2462-PASS







3.4 6dB Bandwidth

3.4.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

3.4.2 Test Procedure

Test Method	
● Conducted Measurement	<input type="radio"/> Radiated Measurement
Test Channels	
● Lowest, Middle and Highest Channel	<input type="radio"/> Lowest and Highest Channel
Environmental conditions	
● Normal	<input type="radio"/> Normal and Extreme

Note: ● : Test ○ : No Test

a) The EUT was connected to the tonscend test system, and the spectrum analyser is set as follow:

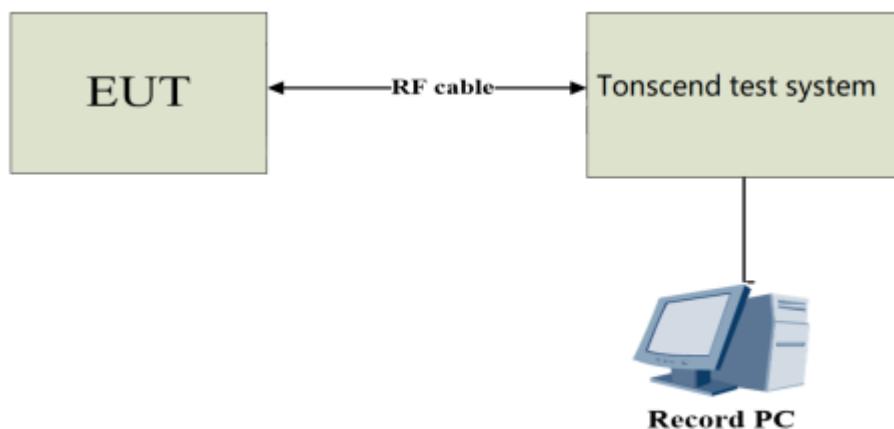
Centre Frequency	The centre frequency of the channel under test
RBW	100kHz
VBW	300kHz
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

b) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.

c) Use the -6dB bandwidth function of the spectrum analyser to measure the 6dB Bandwidth of the EUT. This value shall be recorded.

d) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.4.3 Test Setup



3.4.4 Test Result

DTS Bandwidth

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.080	2408.440	2415.520	0.5	PASS
11B	Ant1	2437	7.560	2433.440	2441.000	0.5	PASS
11B	Ant1	2462	7.520	2458.480	2466.000	0.5	PASS
11G	Ant1	2412	13.480	2406.080	2419.560	0.5	PASS
11G	Ant1	2437	13.920	2430.640	2444.560	0.5	PASS
11G	Ant1	2462	13.920	2455.640	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.120	2404.400	2419.520	0.5	PASS
11N20SISO	Ant1	2437	13.920	2429.400	2443.320	0.5	PASS
11N20SISO	Ant1	2462	15.160	2454.400	2469.560	0.5	PASS
11N40SISO	Ant1	2422	36.240	2403.840	2440.080	0.5	PASS
11N40SISO	Ant1	2437	36.000	2418.840	2454.840	0.5	PASS
11N40SISO	Ant1	2452	36.400	2433.760	2470.160	0.5	PASS