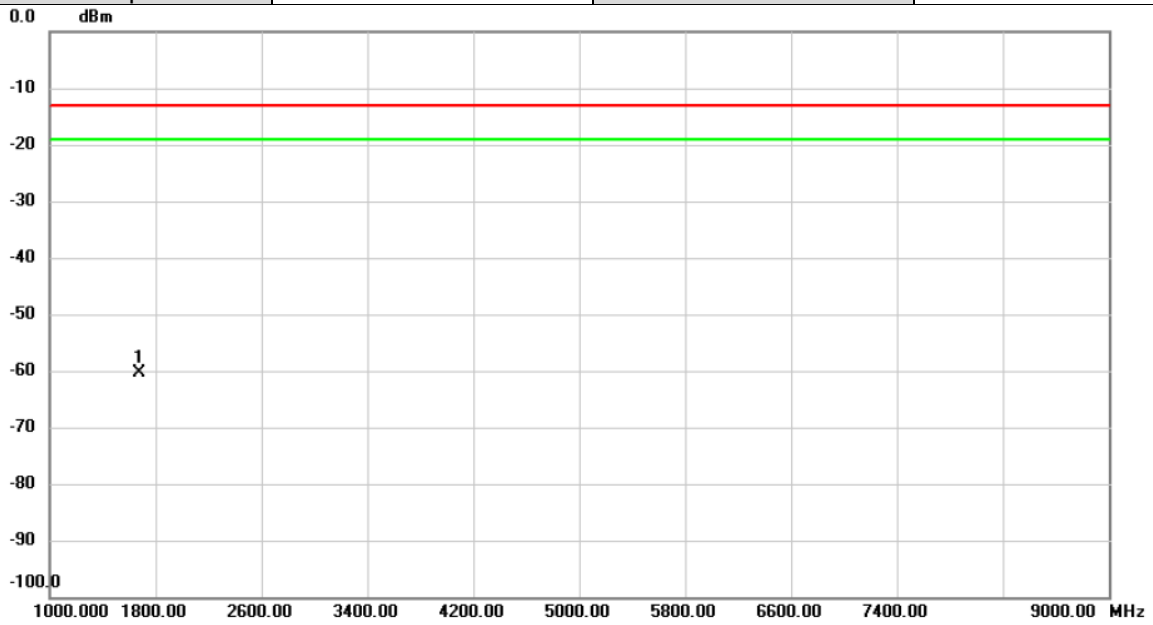
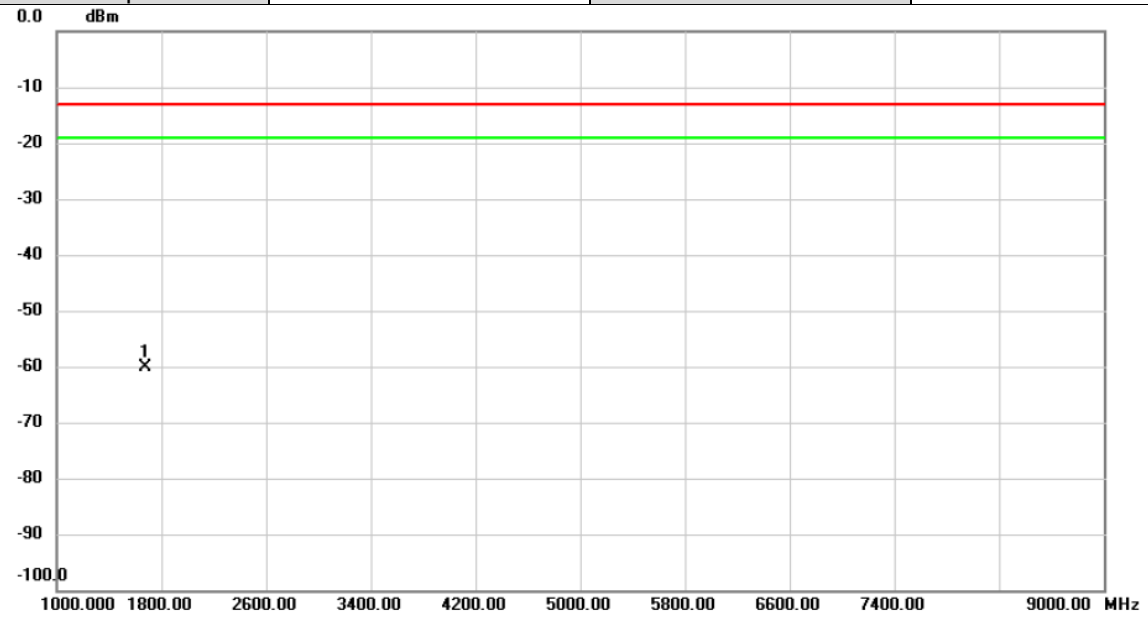
Test Mode	DC_7A_n5A	Test Date	2022/10/21
Test Channel	Mid CH	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-64.96	4.53	-60.43	-13.00	-47.43	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

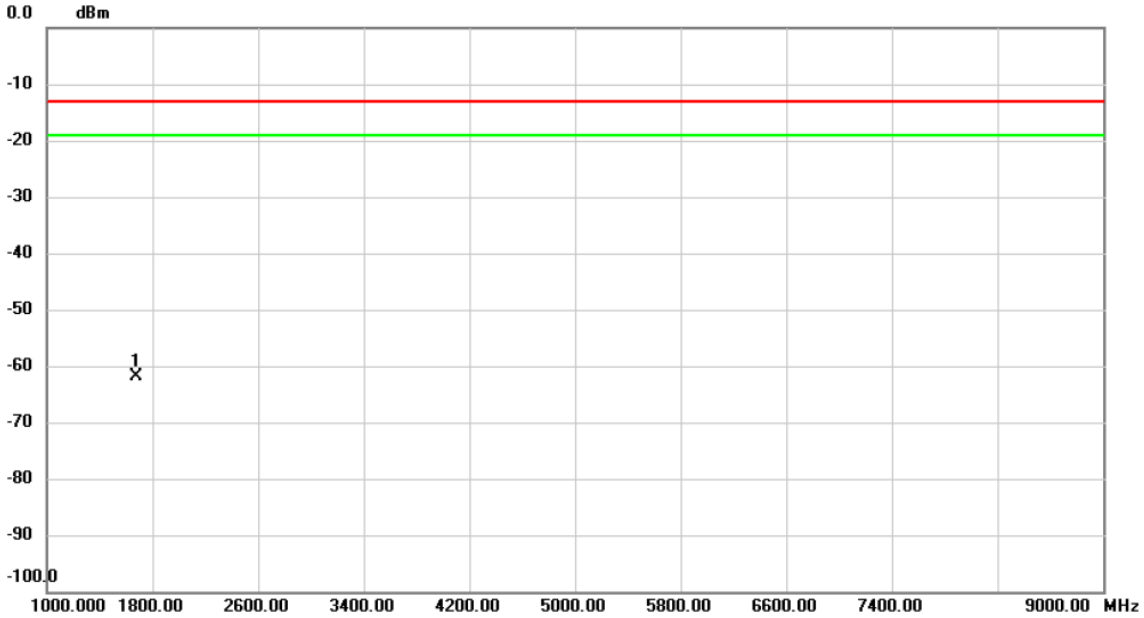
Test Mode	DC_7A_n5A	Test Date	2022/10/21
Test Channel	Mid CH	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-64.68	4.52	-60.16	-13.00	-47.16	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

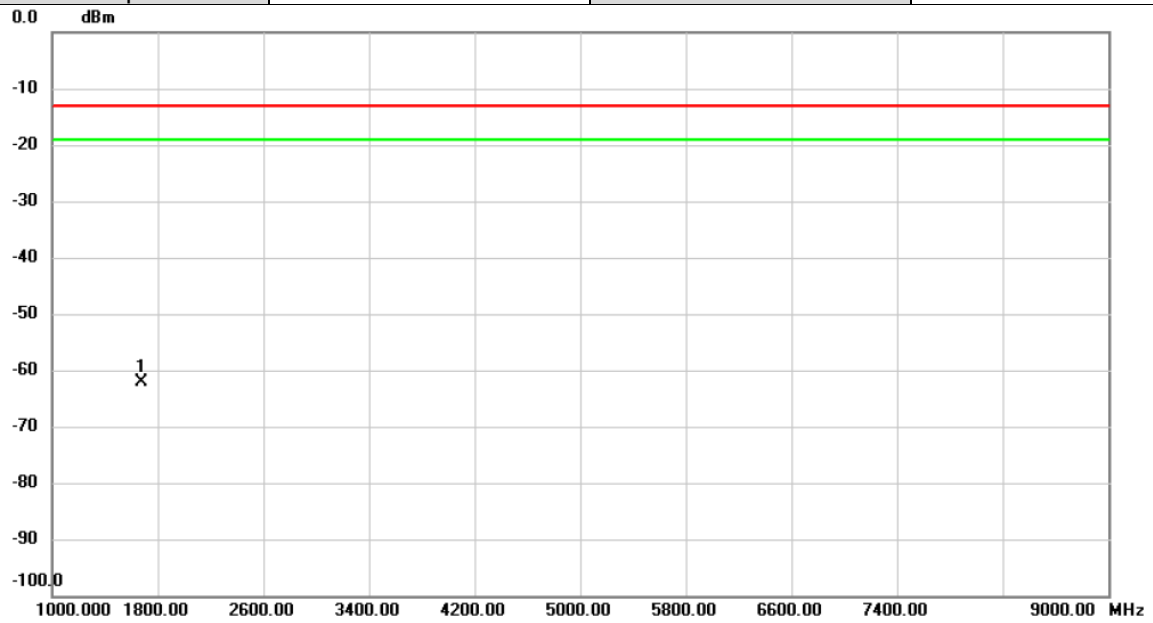
Test Mode	DC_66A_n5A	Test Date	2022/10/24
Test Channel	Mid CH	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-66.42	4.53	-61.89	-13.00	-48.89	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

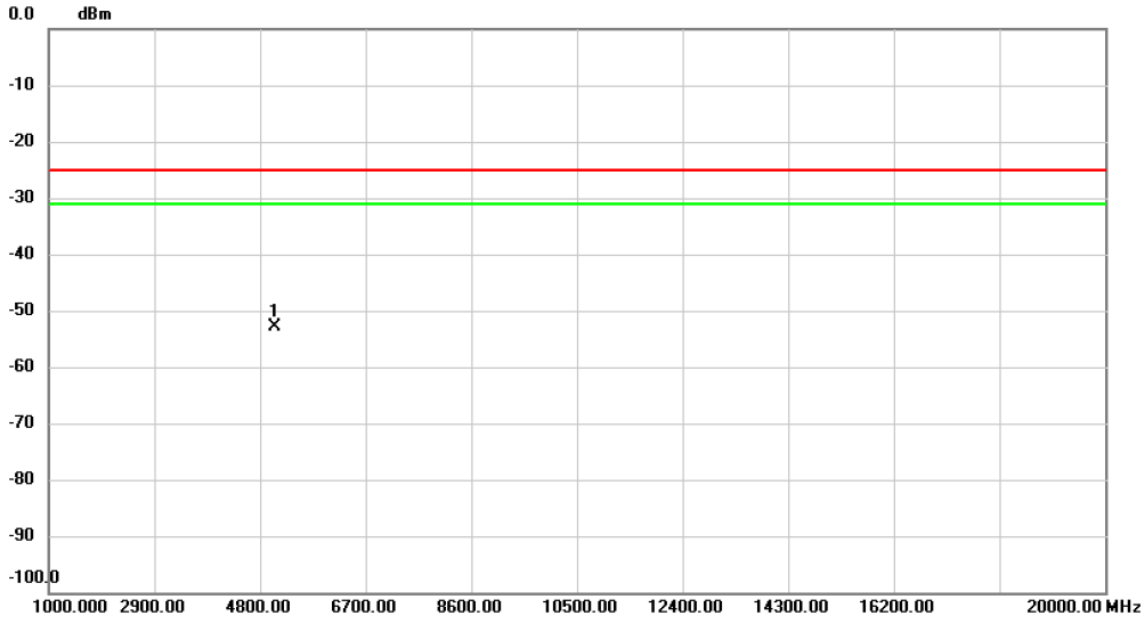
Test Mode	DC_66A_n5A	Test Date	2022/10/24
Test Channel	Mid CH	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-66.66	4.52	-62.14	-13.00	-49.14	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

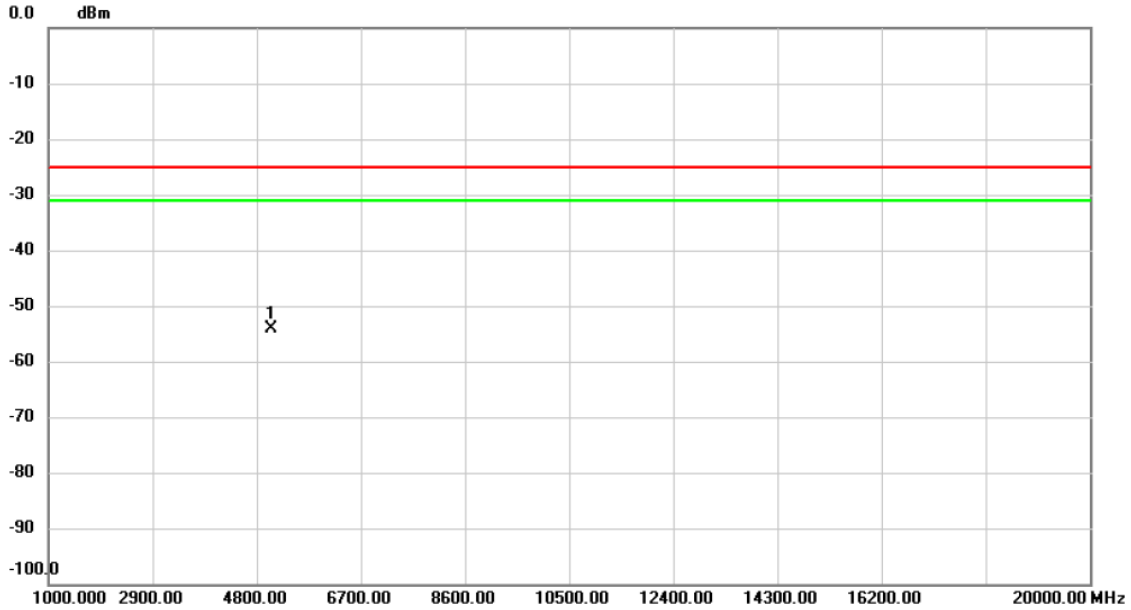
Test Mode	DC_5A_n7A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5070.000	-65.56	12.58	-52.98	-25.00	-27.98	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

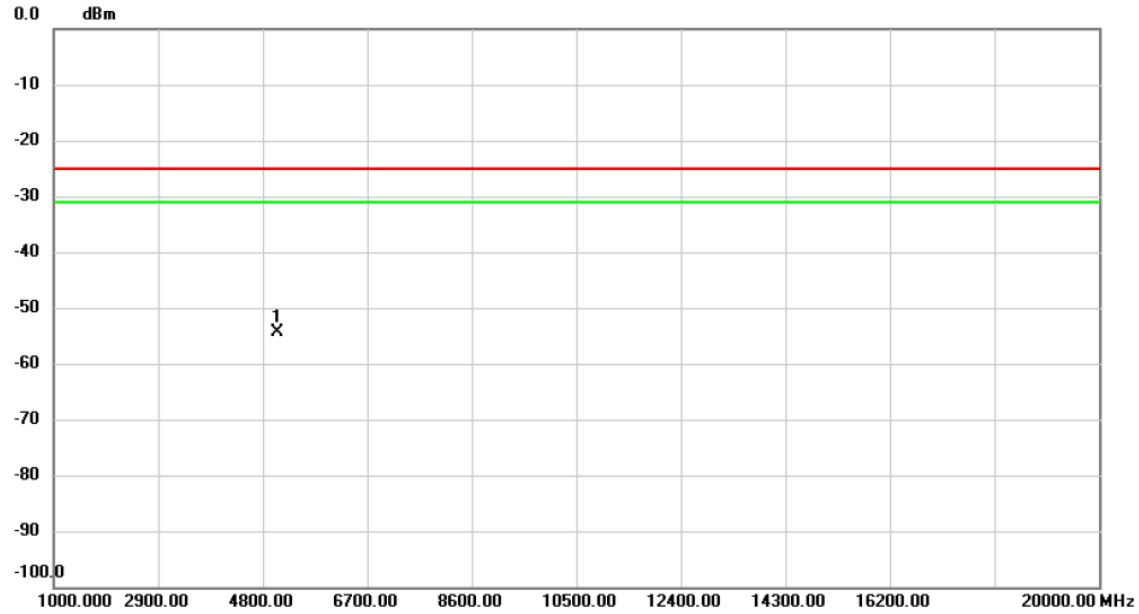
Test Mode	DC_5A_n7A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5070.000	-66.50	12.42	-54.08	-25.00	-29.08	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

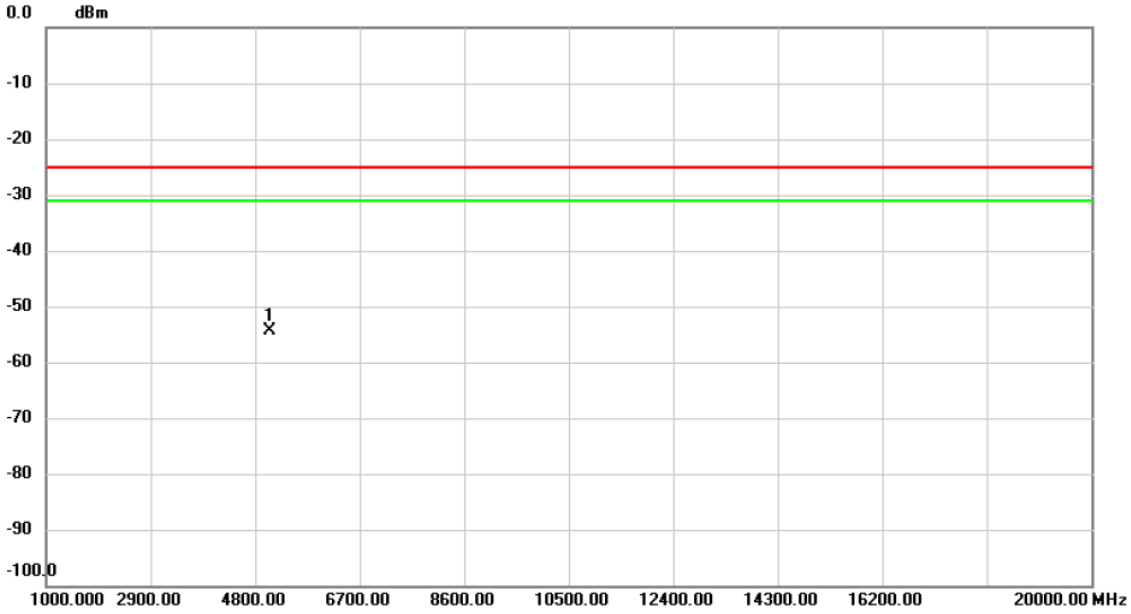
Test Mode	DC_66A_n7A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5070.000	-66.90	12.58	-54.32	-25.00	-29.32	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

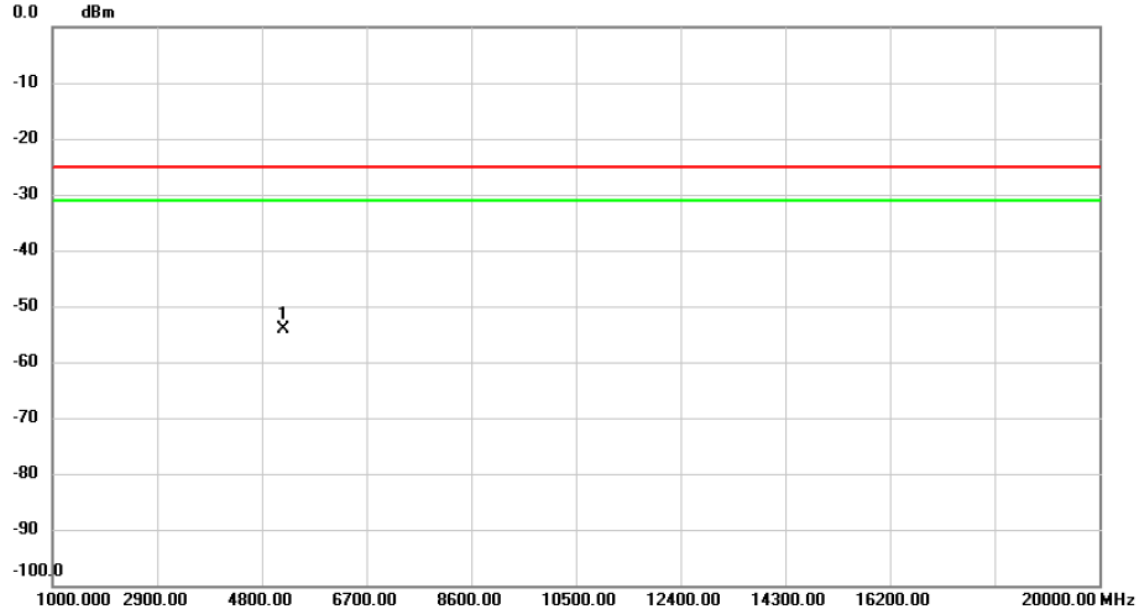
Test Mode	DC_66A_n7A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5070.000	-66.84	12.42	-54.42	-25.00	-29.42	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

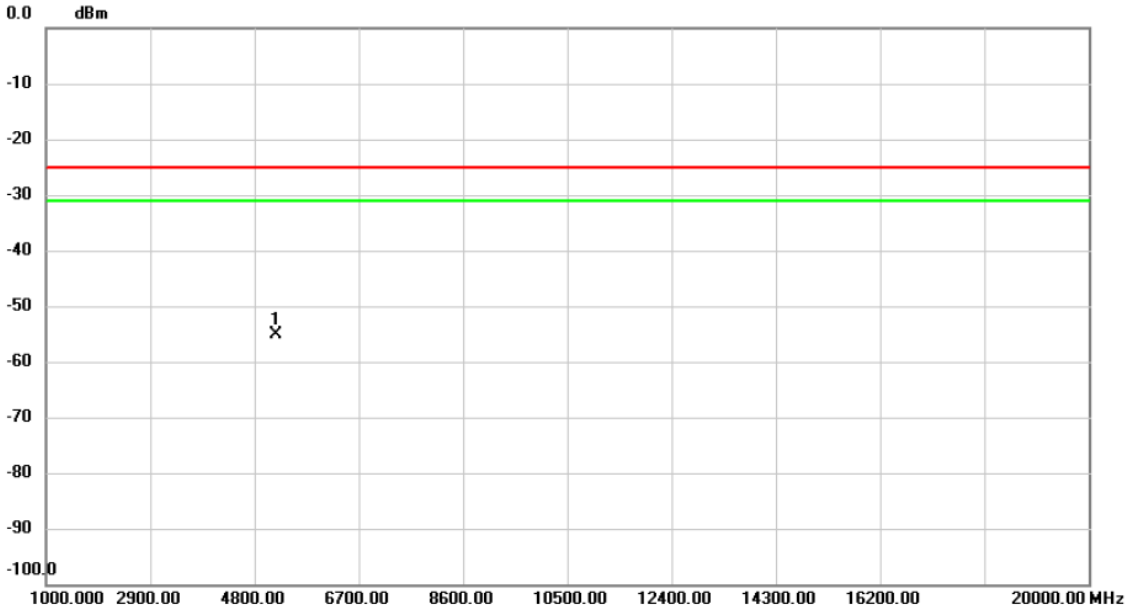
Test Mode	DC_26A_n41A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5185.980	-66.74	12.56	-54.18	-25.00	-29.18	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

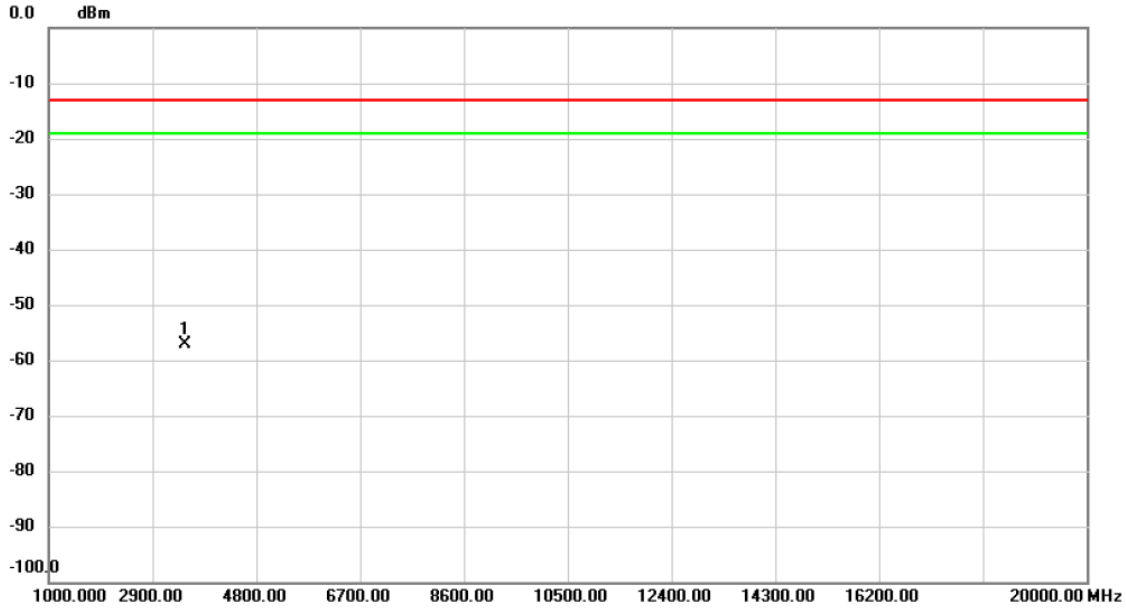
Test Mode	DC_26A_n41A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5185.980	-67.35	12.16	-55.19	-25.00	-30.19	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

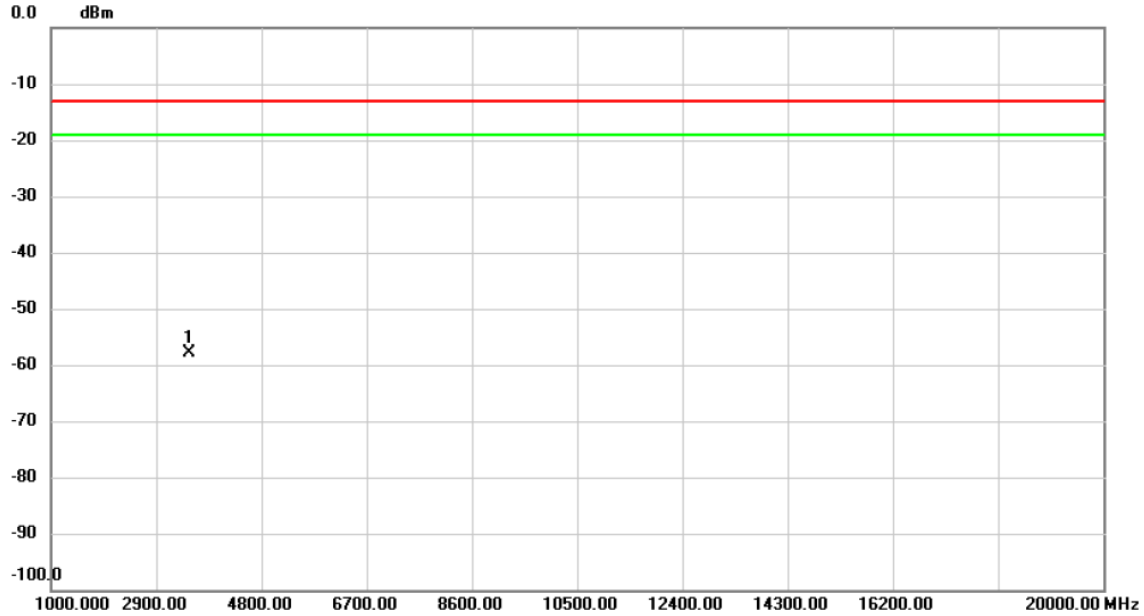
Test Mode	DC_5A_n66A	Test Date	2022/10/21
Test Channel	Mid CH	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3490.000	-66.22	9.06	-57.16	-13.00	-44.16	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

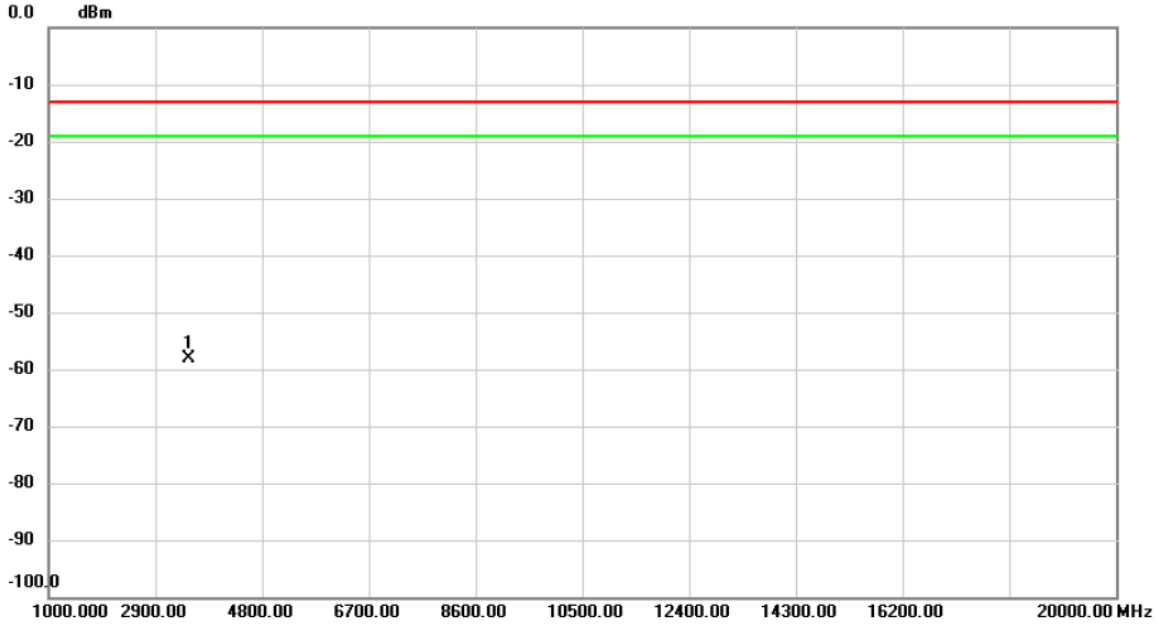
Test Mode	DC_5A_n66A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3490.000	-66.88	8.95	-57.93	-13.00	-44.93	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

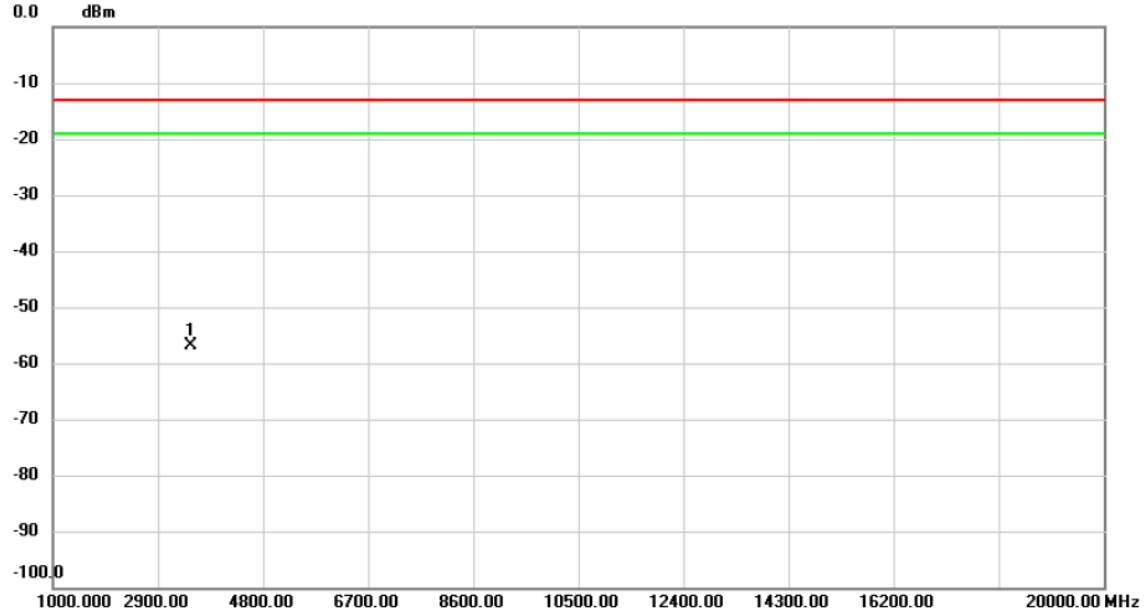
Test Mode	DC_7A_n66A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3490.000	-67.11	9.06	-58.05	-13.00	-45.05	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

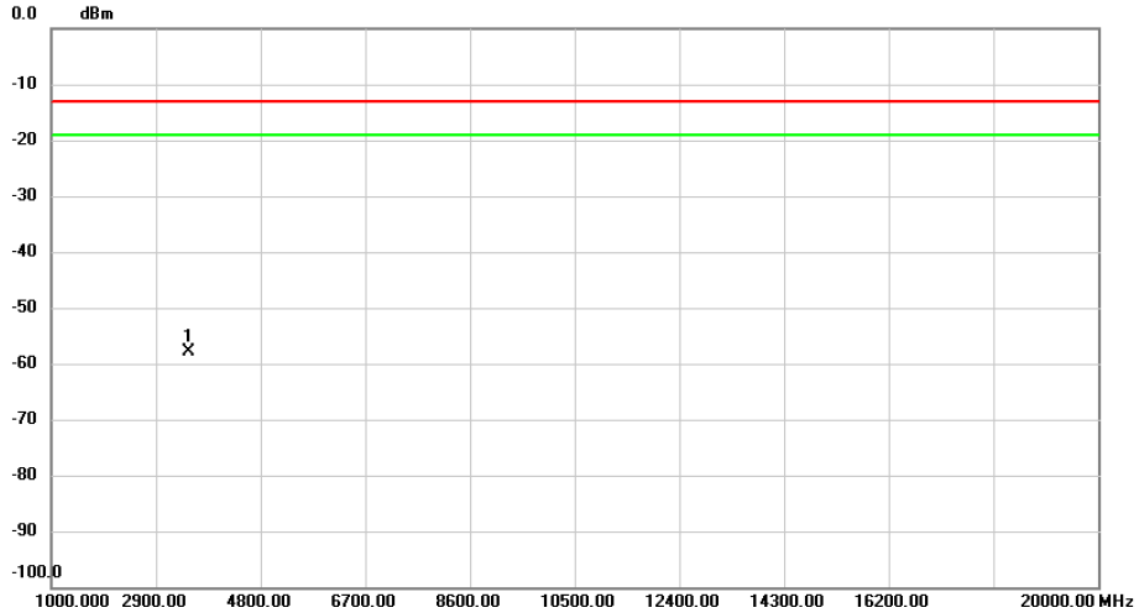
Test Mode	DC_7A_n66A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3490.000	-65.78	8.95	-56.83	-13.00	-43.83	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

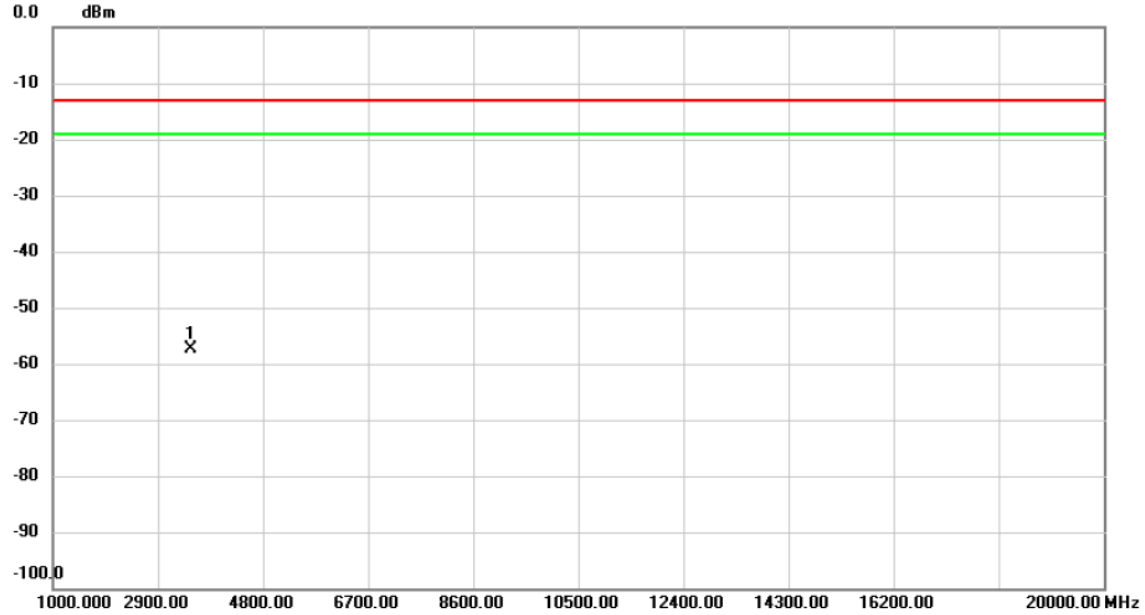
Test Mode	DC_12A_n66A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3490.000	-66.95	9.06	-57.89	-13.00	-44.89	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

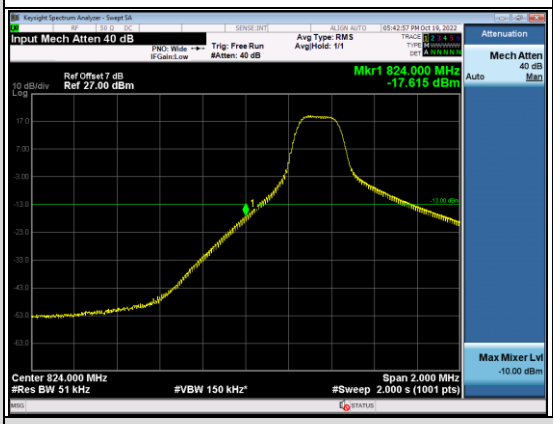
Test Mode	DC_12A_n66A	Test Date	2022/10/20
Test Channel	Mid CH	Polarization	Horizontal
Temp	23°C	Hum.	59%

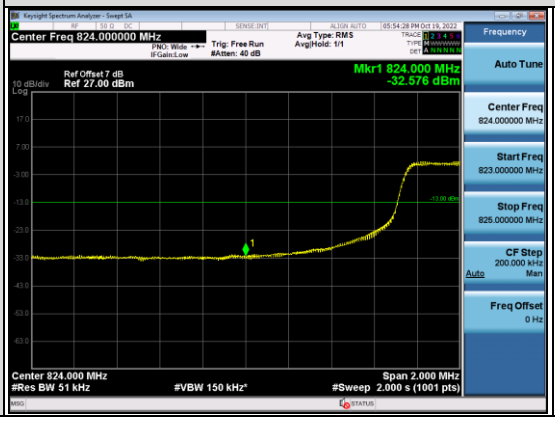


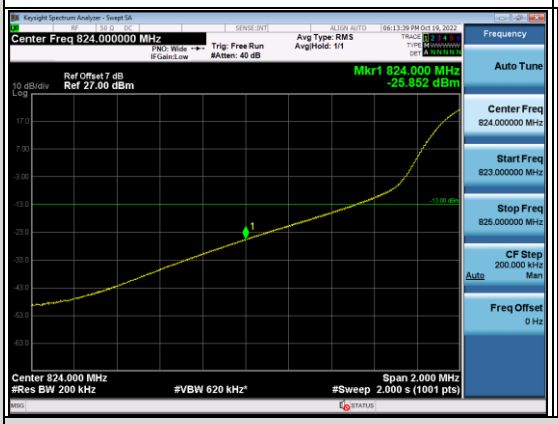
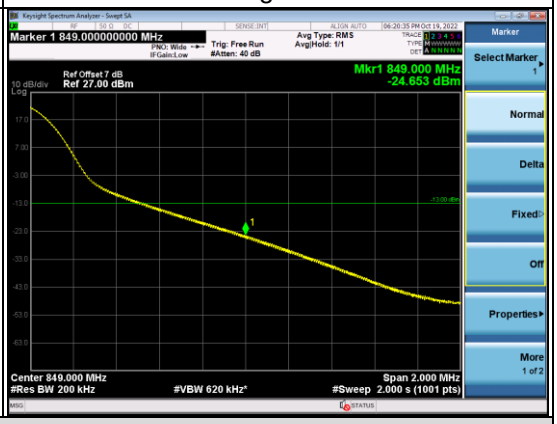
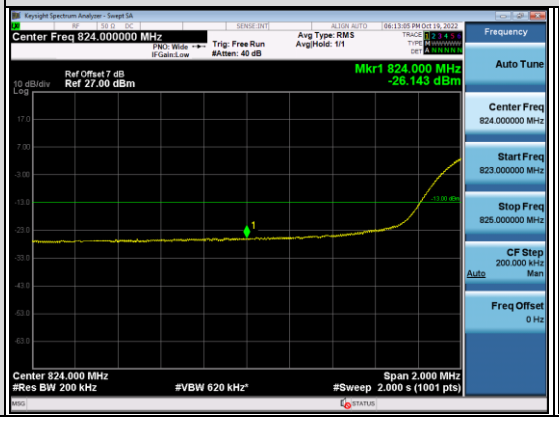
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3490.000	-66.41	8.95	-57.46	-13.00	-44.46	peak	

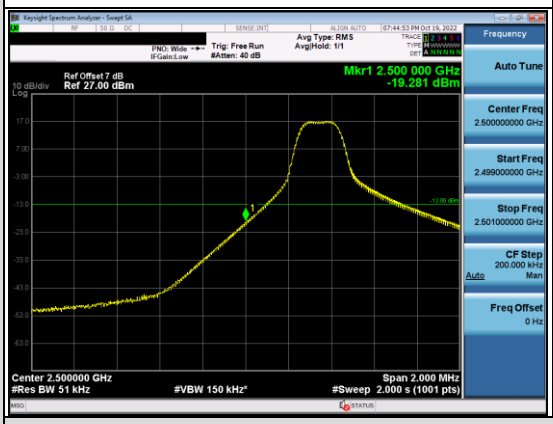
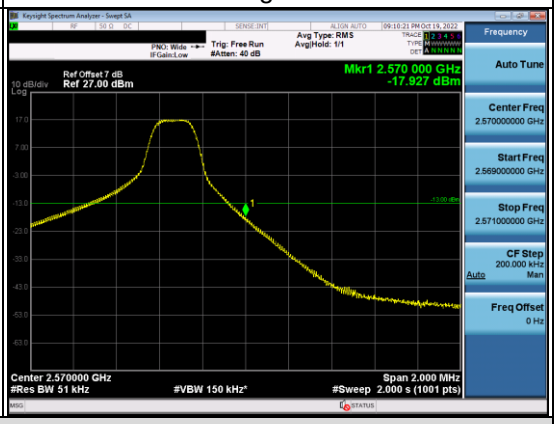
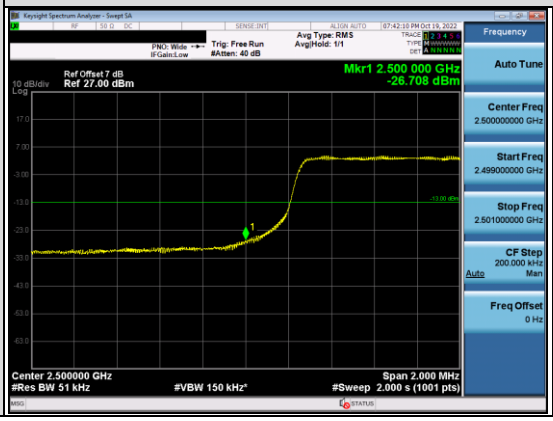
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

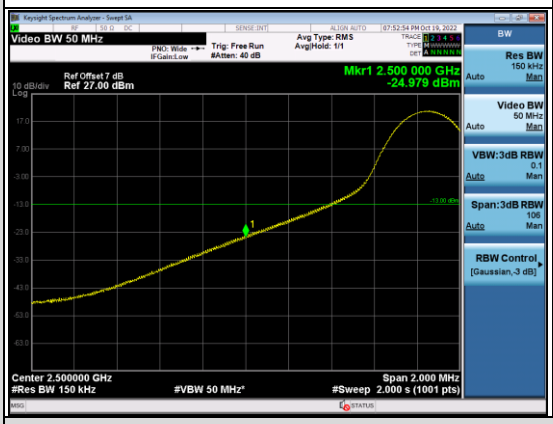
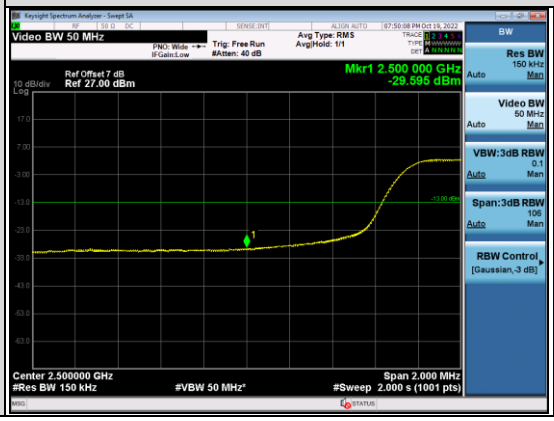
APPENDIX E BAND EDGE

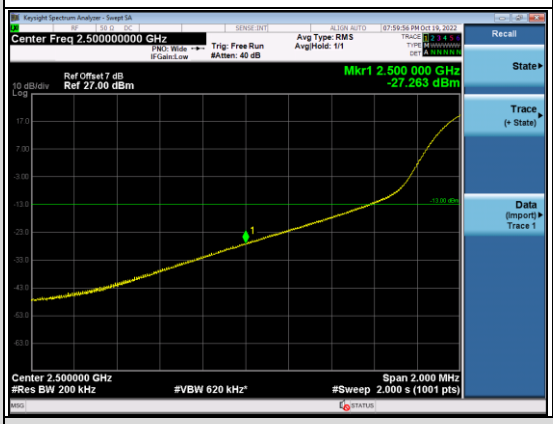
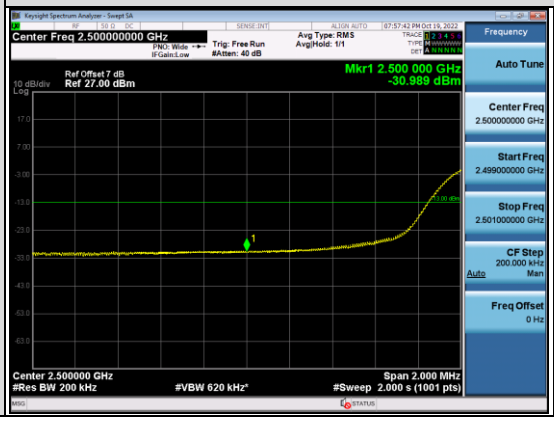
NR n5_5MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

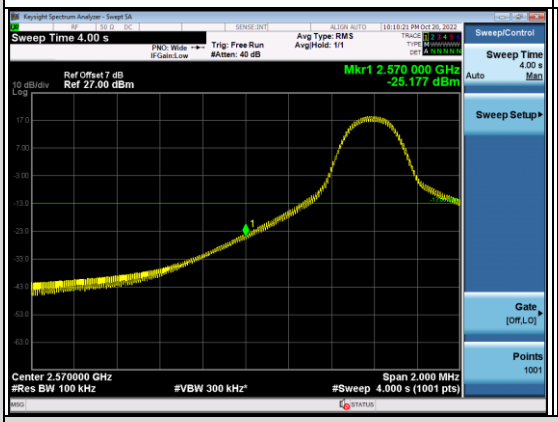
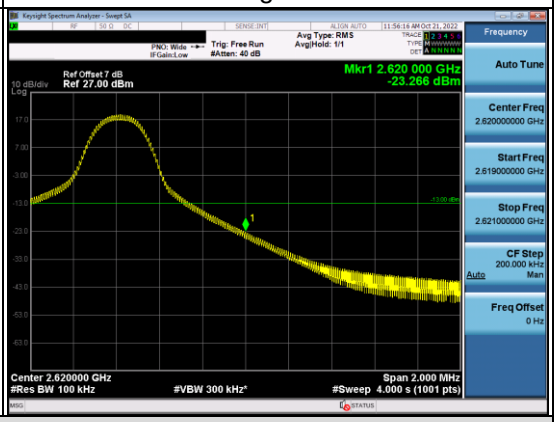
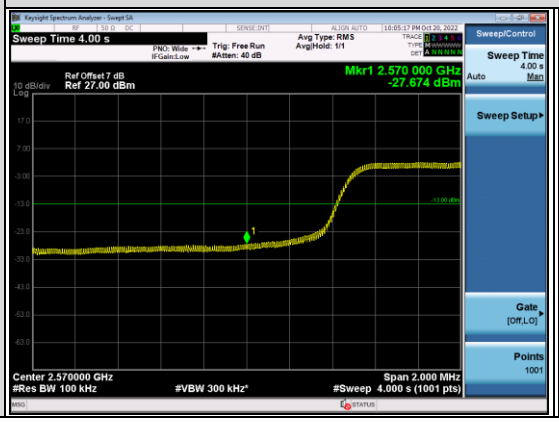
NR n5_15MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

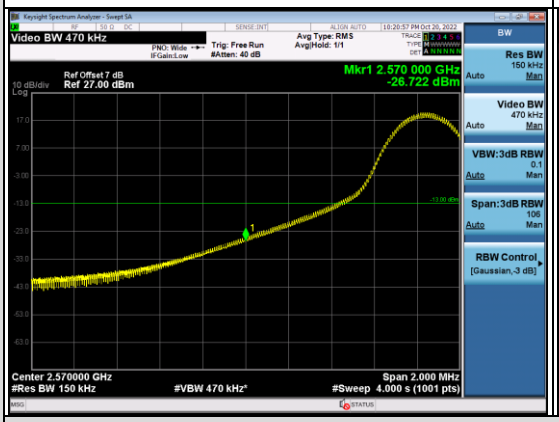
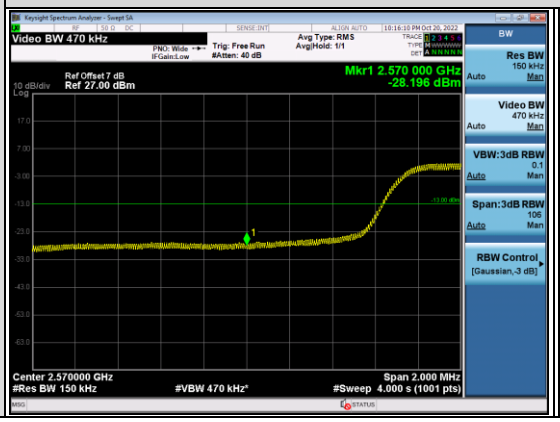
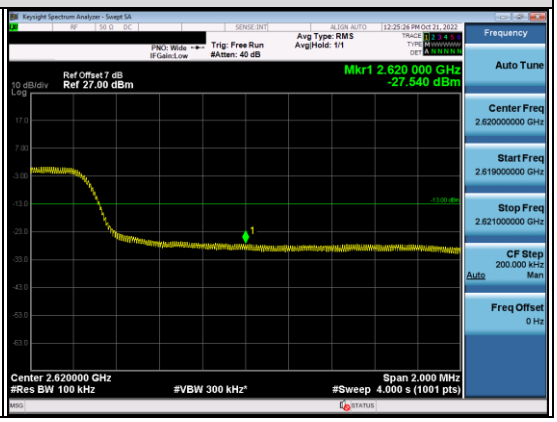
NR n5_20MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

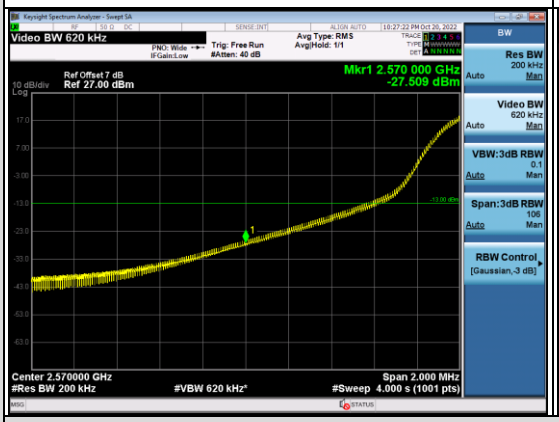
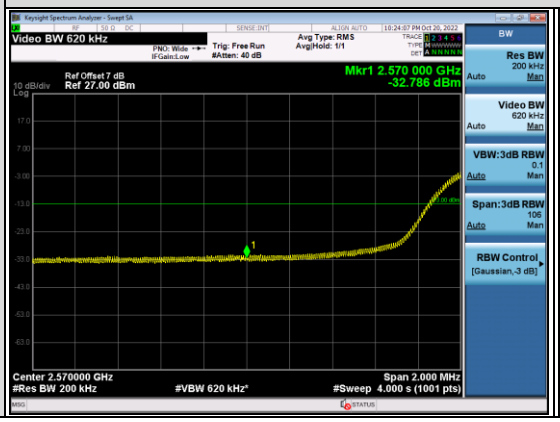
NR n7_5MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

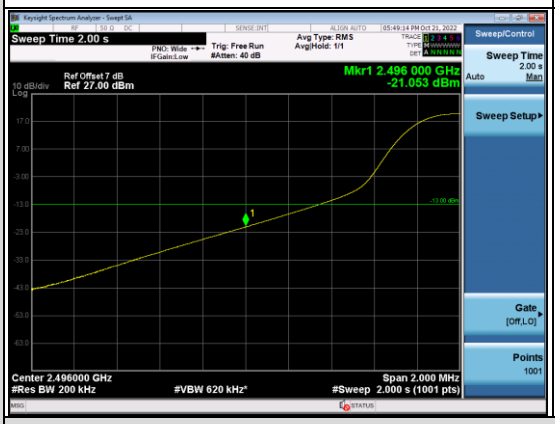
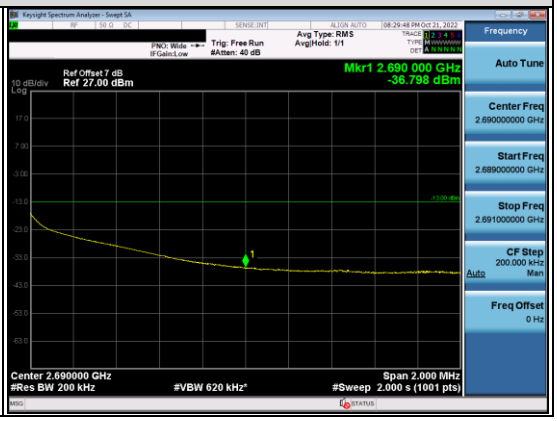
NR n7_15MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

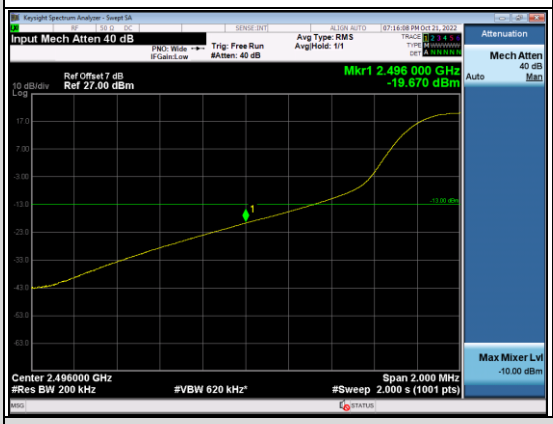
NR n7_20MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

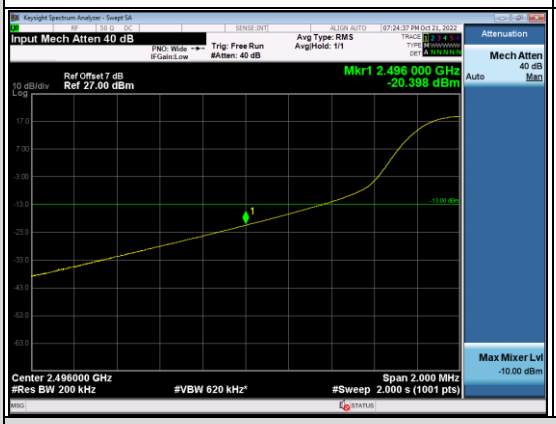
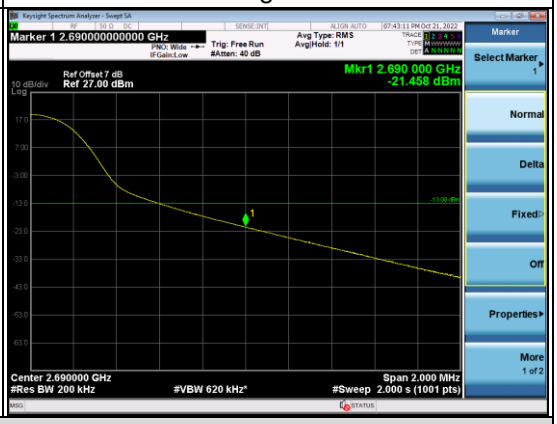
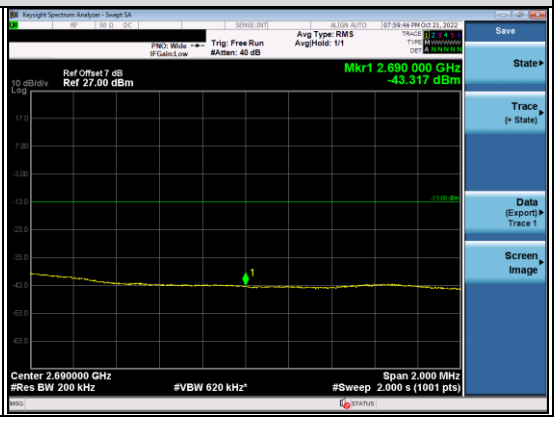
NR n38_10MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

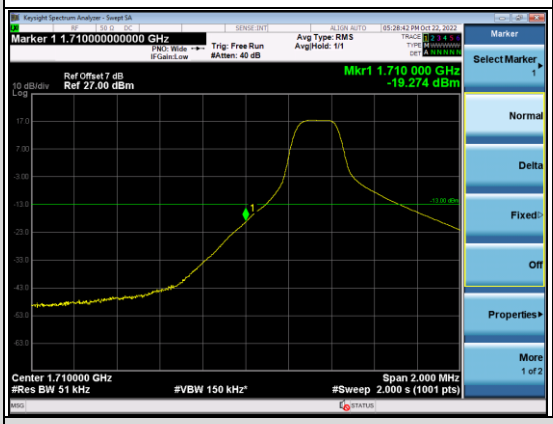
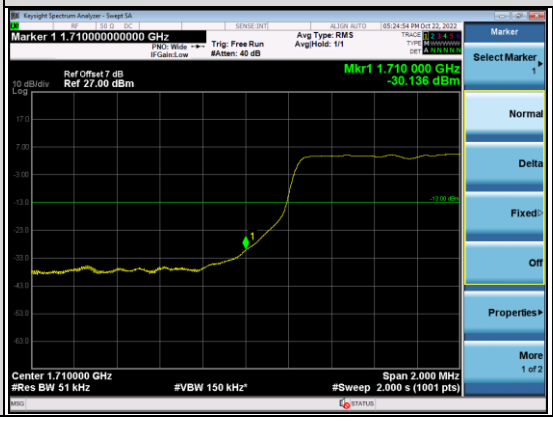
NR n38_15MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

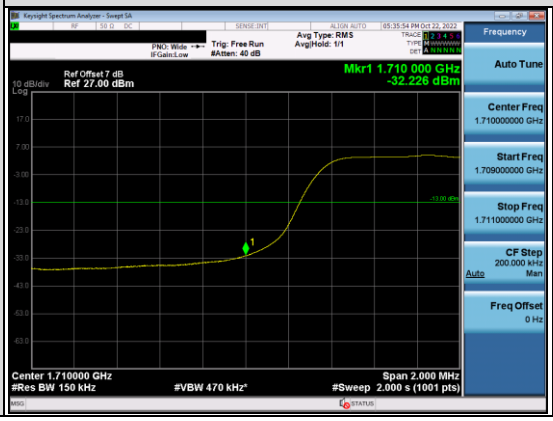
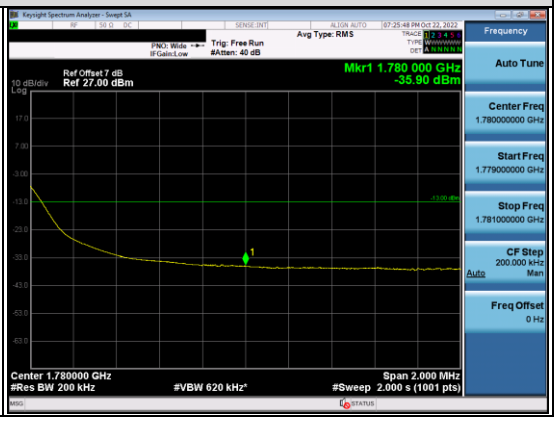
NR n38_20MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

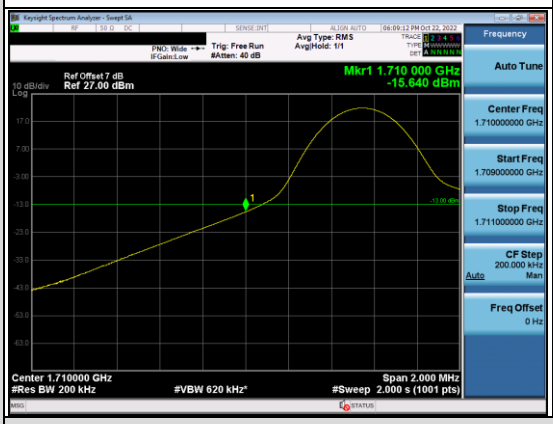
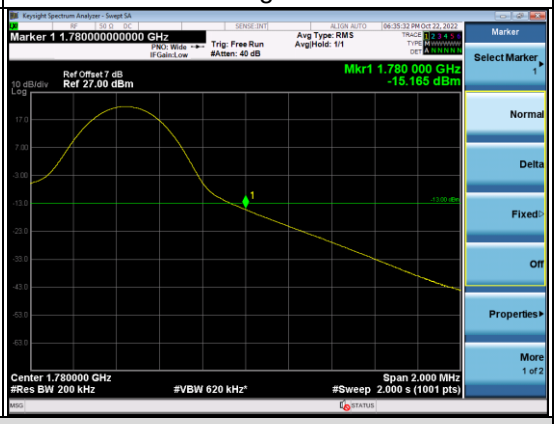
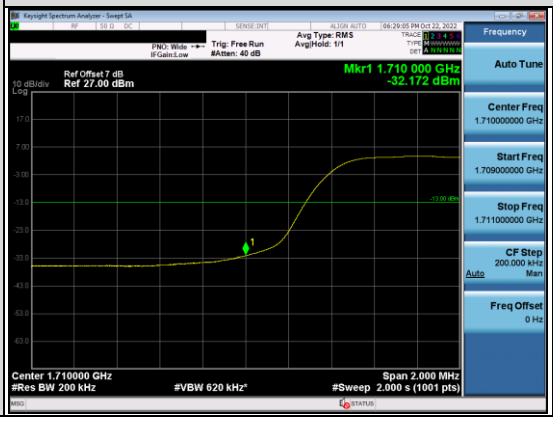
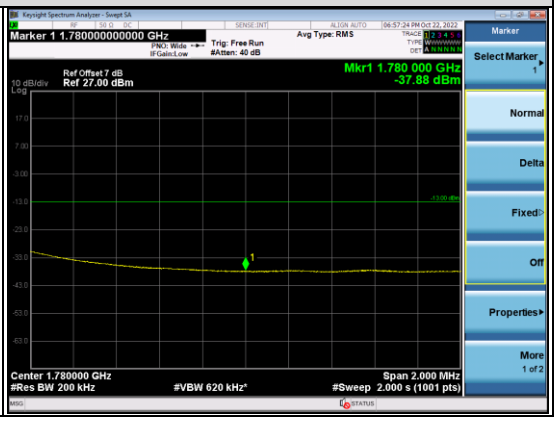
NR n41_20MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

NR n41_60MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

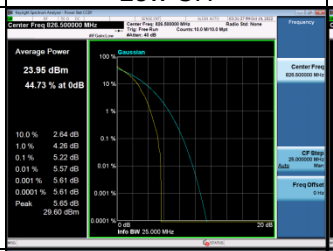
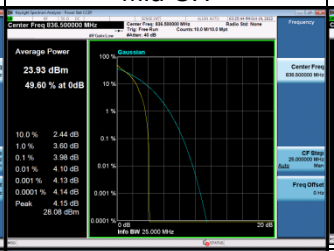
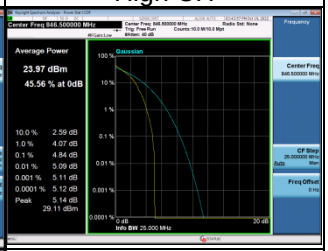
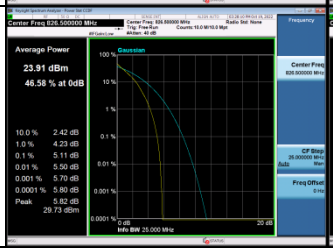
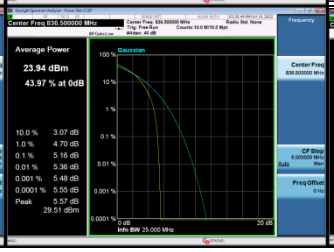
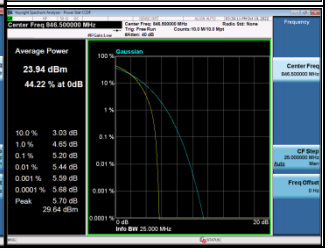
NR n41_100MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

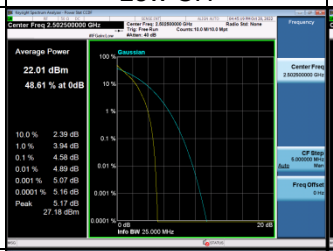
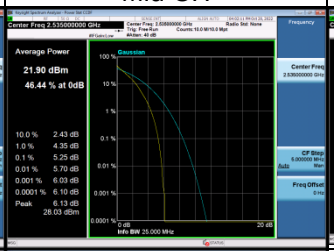
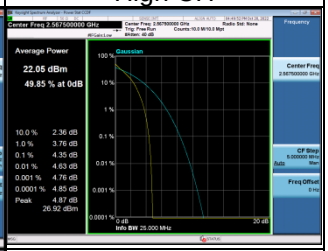
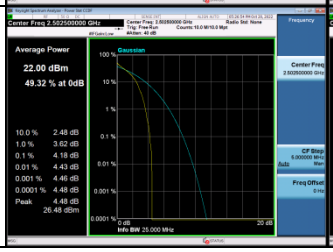
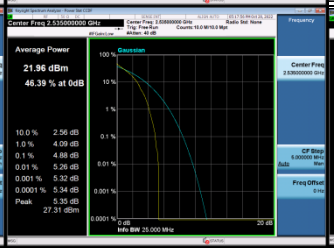
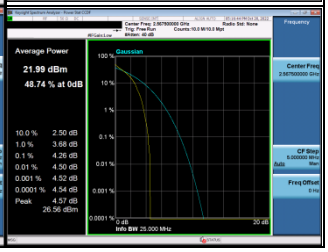
NR n66_5MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

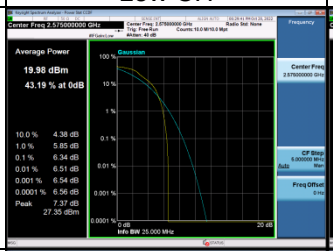
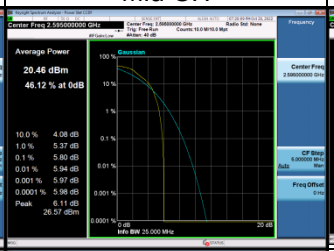
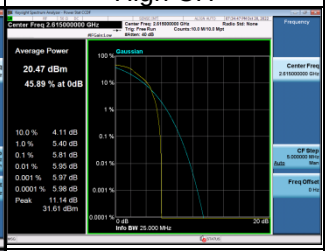
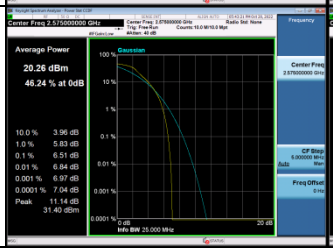
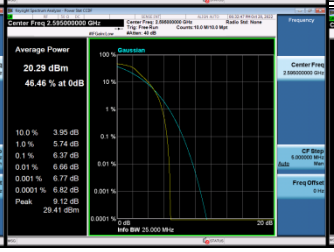
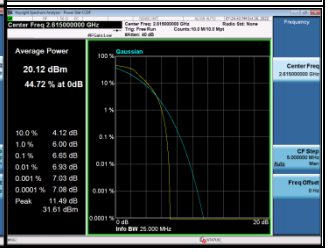
NR n66_15MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

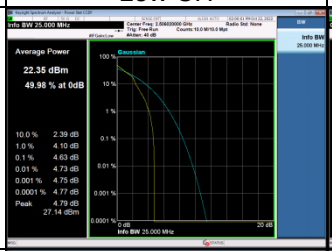
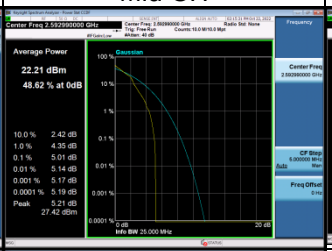
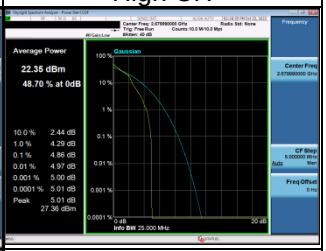
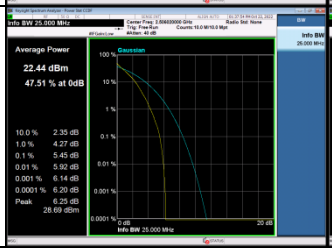
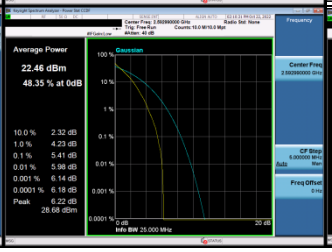
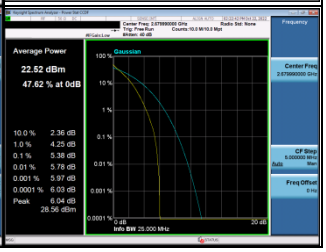
NR n66_20MHz Spectrum Plot		
RB / Modulation	Edge 1RB Left	Edge 1RB Right
DFT-s-OFDM QPSK	Low CH	High CH
		
	Outer Full	
		

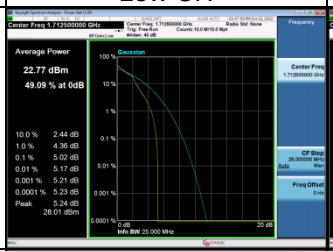
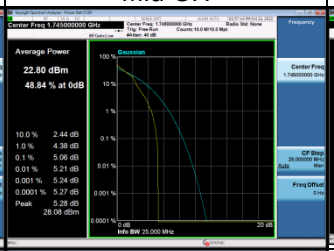
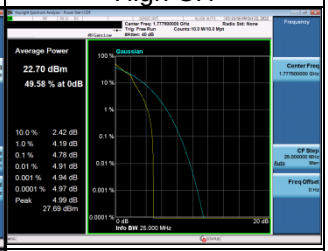
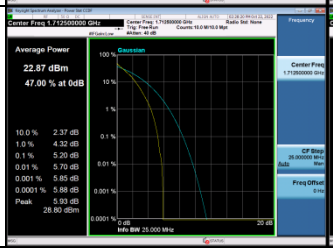
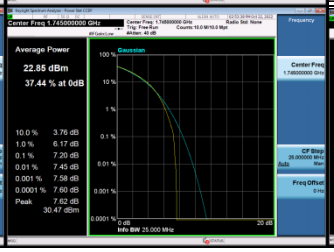
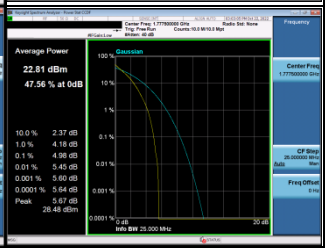
APPENDIX F PEAK TO AVERAGE RATIO

NR n5_5MHz			
DFT-s-OFDM QPSK Spectrum Plot			
RB	Channel		
	Low CH	Mid CH	High CH
Edge 1RB Left			
Outer Full			

NR n7_5MHz			
DFT-s-OFDM QPSK Spectrum Plot			
RB	Channel		
	Low CH	Mid CH	High CH
Edge 1RB Left			
Outer Full			

NR n38_10MHz			
DFT-s-OFDM QPSK Spectrum Plot			
RB	Channel		
	Low CH	Mid CH	High CH
Edge 1RB Left			
Outer Full			

NR n41_20MHz			
DFT-s-OFDM QPSK Spectrum Plot			
RB	Channel		
	Low CH	Mid CH	High CH
Edge 1RB Left			
Outer Full			

NR n66_5MHz			
DFT-s-OFDM QPSK Spectrum Plot			
RB	Channel		
	Low CH	Mid CH	High CH
Edge 1RB Left			
Outer Full			

APPENDIX G FREQUENCY STABILITY

Test Mode	5G NR n5

Voltage	Frequency Error(ppm)	Limit (ppm)
	NR Band 5	
High Voltage	0.0100	2.5
Normal Voltage	-0.0373	2.5
Low Voltage	-0.0747	2.5

Temp	Frequency Error(ppm)	Limit (ppm)
	NR Band 5	
50	0.0892	2.5
40	-0.3059	2.5
30	-0.2911	2.5
20	-0.1390	2.5
10	-0.2749	2.5
0	0.0923	2.5
-10	-0.3582	2.5
-20	0.0800	2.5
-30	-0.0488	2.5

Test Mode	5G NR n7, n38, n41, n66

Voltage	Frequency Error(ppm)				Limit (ppm)
	NR Band 7	NR Band 38	NR Band 41	NR Band 66	
High Voltage	-0.0200	0.2400	0.2200	0.0300	2.5
Normal Voltage	0.1900	0.0200	-0.0100	0.2500	2.5
Low Voltage	0.0800	0.1900	0.3100	-0.0600	2.5

Temp	Frequency Error(ppm)				Limit (ppm)
	NR Band 7	NR Band 38	NR Band 41	NR Band 66	
50	0.1400	0.0200	0.2000	0.1100	2.5
40	0.1800	0.1400	0.2100	0.1600	2.5
30	0.0800	0.1400	0.0100	0.2100	2.5
20	0.0200	0.2800	0.0900	0.0700	2.5
10	0.3000	-0.0100	0.3100	0.1500	2.5
0	0.0700	-0.0400	0.2200	0.1800	2.5
-10	0.0300	0.0400	0.0800	0.2700	2.5
-20	0.1600	0.2200	0.1300	0.0600	2.5
-30	0.1400	0.1000	0.0500	-0.0400	2.5

End of Test Report