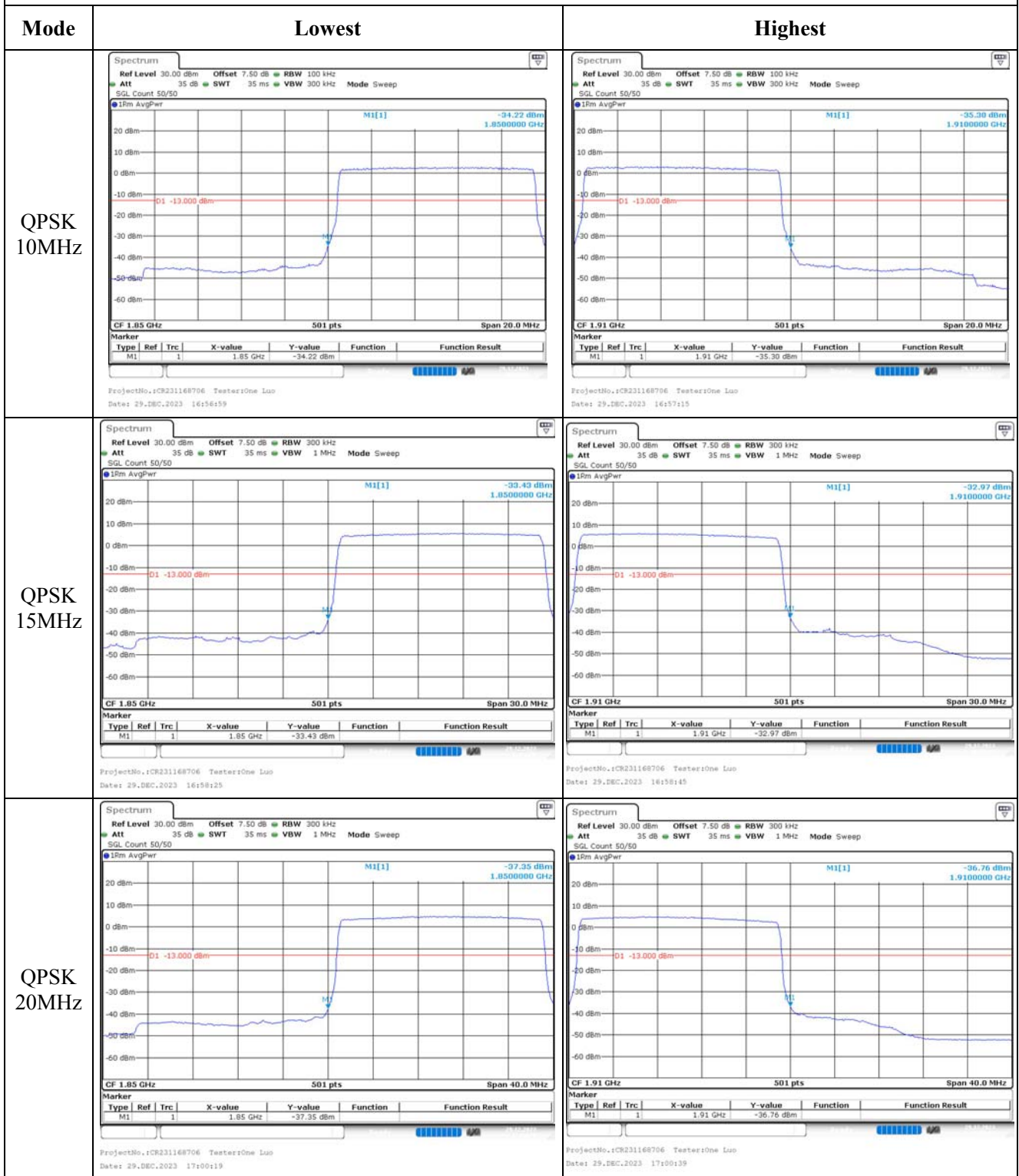
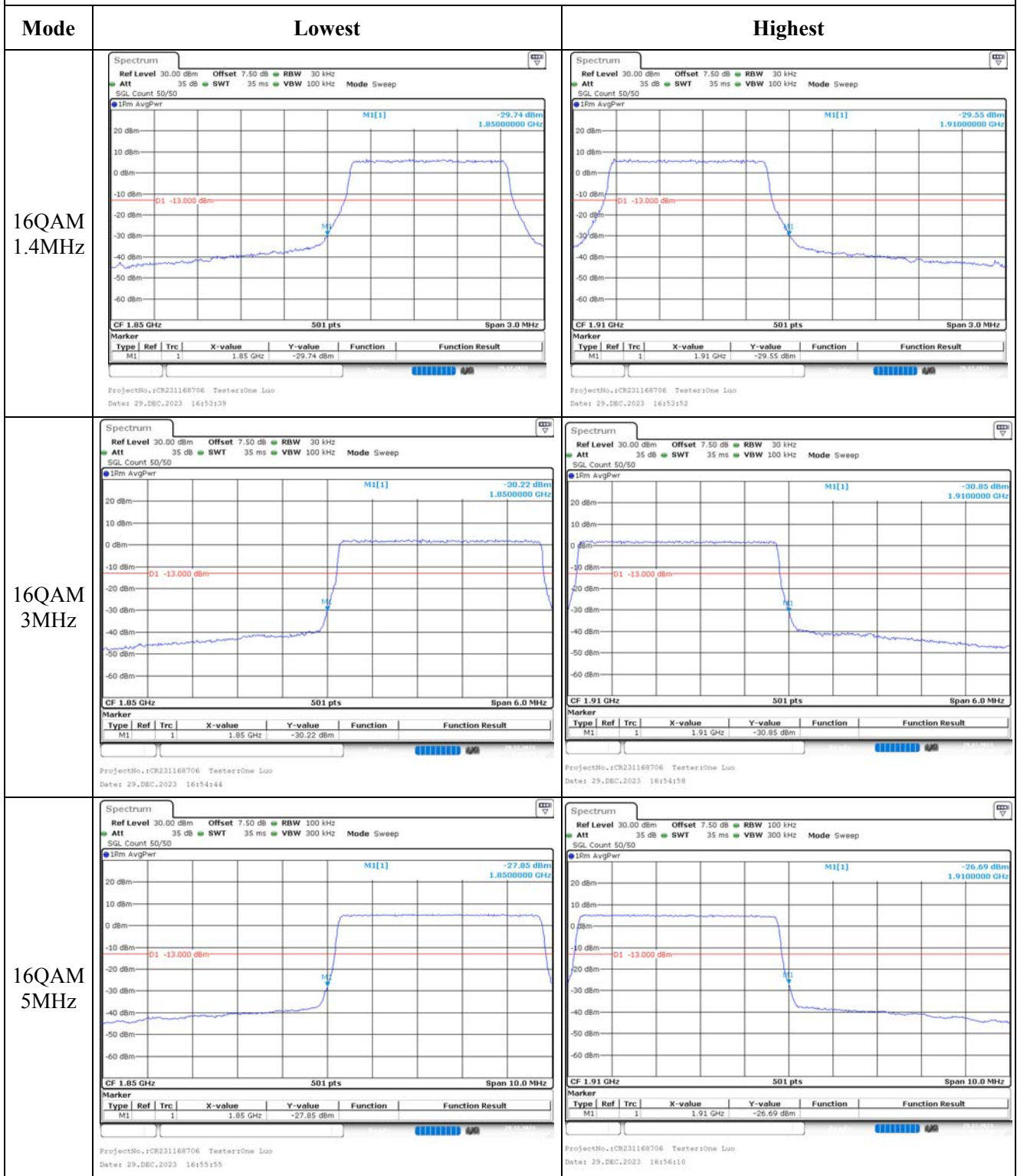


Full RB:

Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

4.5 Antenna Port Test Data and Results for LTE Band 4

Serial Number:	2DYI-2	Test Date:	2023/12/29~2024/3/7
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo, Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3~25.2	Relative Humidity: (%)	28~65	ATM Pressure: (kPa)	100.9~101.4
----------------------	-----------	------------------------------	-------	------------------------	-------------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1732.5	1754.3
3MHz	1711.5	1732.5	1753.5
5MHz	1712.5	1732.5	1752.5
10MHz	1715	1732.5	1750
15MHz	1717.5	1732.5	1747.5
20MHz	1720	1732.5	1745

Test Data:

RF Output Power						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	23.32	23.2	23.09	22	30
	RB1#3	23.42	23.4	23.21		
	RB1#5	23.34	23.29	23.28		
	RB3#0	23.18	23.25	23.04		
	RB3#3	23.12	23.3	23.11		
	RB6#0	22.16	22.37	22.25		
1.4MHz 16QAM	RB1#0	22.28	22.34	22.16	20.92	30
	RB1#3	22.25	22.26	22.27		
	RB1#5	22.21	22.2	22.22		
	RB3#0	22.11	22.25	22.11		
	RB3#3	22.17	22.26	22.21		
	RB6#0	21.13	21.29	21.27		
3MHz QPSK	RB1#0	23.25	23.44	23.22	22.02	30
	RB1#8	23.23	23.35	23.23		
	RB1#14	23.2	23.33	23.3		
	RB6#0	22.23	22.34	22.18		
	RB6#9	22.26	22.37	22.31		
	RB15#0	22.24	22.39	22.11		
3MHz 16QAM	RB1#0	22.26	22.38	22.18	21	30
	RB1#8	22.1	22.24	22.2		
	RB1#14	22.09	22.41	22.42		
	RB6#0	21.23	21.35	21.03		
	RB6#9	21.21	21.37	21.21		
	RB15#0	21.15	21.35	21.07		
5MHz QPSK	RB1#0	23.16	23.31	23.2	21.96	30
	RB1#13	23.21	23.29	23.24		
	RB1#24	23.18	23.25	23.38		
	RB15#0	22.26	22.3	22.25		
	RB15#10	22.25	22.33	22.42		
	RB25#0	22.23	22.31	22.34		
5MHz 16QAM	RB1#0	22.33	22.34	22.29	21.03	30
	RB1#13	22.3	22.29	22.37		
	RB1#24	22.45	22.19	22.44		
	RB15#0	21.22	21.37	21.25		
	RB15#10	21.23	21.38	21.4		
	RB25#0	21.23	21.39	21.23		
10MHz QPSK	RB1#0	23.34	23.35	23.14	22.02	30
	RB1#25	23.44	23.39	23.14		
	RB1#49	23.22	23.25	23.31		

	RB25#0	22.25	22.31	22.24		
	RB25#25	22.28	22.33	22.16		
	RB50#0	22.31	22.33	22.17		
10MHz 16QAM	RB1#0	22.42	22.14	22.06	21	30
	RB1#25	22.32	22.31	22.14		
	RB1#49	22.09	22.13	22.13		
	RB25#0	21.15	21.28	21.09		
	RB25#25	21.15	21.27	21.2		
	RB50#0	21.19	21.25	21.18		
	RB1#0	23.25	23.1	23.23		
RB1#38	23.12	23.22	23.16			
RB1#74	23.34	23.2	23.26			
RB36#0	22.21	22.32	22.19			
RB36#39	22.2	22.37	22.22			
RB75#0	22.27	22.3	22.25			
15MHz 16QAM	RB1#0	22.07	22.23	22.21	20.84	30
	RB1#38	22.03	22.26	21.92		
	RB1#74	22.24	22.19	22.01		
	RB36#0	21.25	21.22	21.09		
	RB36#39	21.15	21.28	21.14		
	RB75#0	21.31	21.27	21.08		
20MHz QPSK	RB1#0	23.04	22.97	23.27	21.85	30
	RB1#50	23.06	23.21	23.12		
	RB1#99	23.22	23.05	23.25		
	RB50#0	22.15	22.09	22.2		
	RB50#50	22.22	22.2	22.08		
	RB100#0	22.06	22.12	22.03		
20MHz 16QAM	RB1#0	21.92	22.12	21.96	20.96	30
	RB1#50	22.07	22.38	21.9		
	RB1#99	22.28	22.07	21.89		
	RB50#0	21.03	21.08	21.12		
	RB50#50	21.15	21.21	21.01		
	RB100#0	21.06	21.16	21.08		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + G _T (dBi)						
					Result:	Pass

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	4.12	4.58	4.55	13
	RB100#0	3.94	3.88	3.94	13
20MHz 16QAM	RB1#0	5.19	5.51	5.48	13
	RB100#0	5.65	5.65	5.68	13
Result:					Pass

Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.108	1.096	1.096	1.326	1.308	1.32
1.4MHz 16QAM	1.102	1.102	1.102	1.302	1.314	1.32
3MHz QPSK	2.695	2.695	2.707	2.952	2.964	2.964
3MHz 16QAM	2.695	2.695	2.683	2.988	2.964	3
5MHz QPSK	4.511	4.511	4.531	5.02	5.02	5
5MHz 16QAM	4.511	4.531	4.531	5.06	5.04	5.08
10MHz QPSK	8.942	8.942	8.942	9.8	9.84	9.72
10MHz 16QAM	8.942	8.942	8.942	9.8	9.8	9.68
15MHz QPSK	13.533	13.473	13.533	14.94	14.82	14.94
15MHz 16QAM	13.473	13.473	13.473	14.88	14.82	14.82
20MHz QPSK	17.964	17.964	17.964	19.52	19.52	19.44
20MHz 16QAM	17.964	17.884	17.964	19.6	19.44	19.52

Note: The test plots please refer to the Plots of Occupied Bandwidth

Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

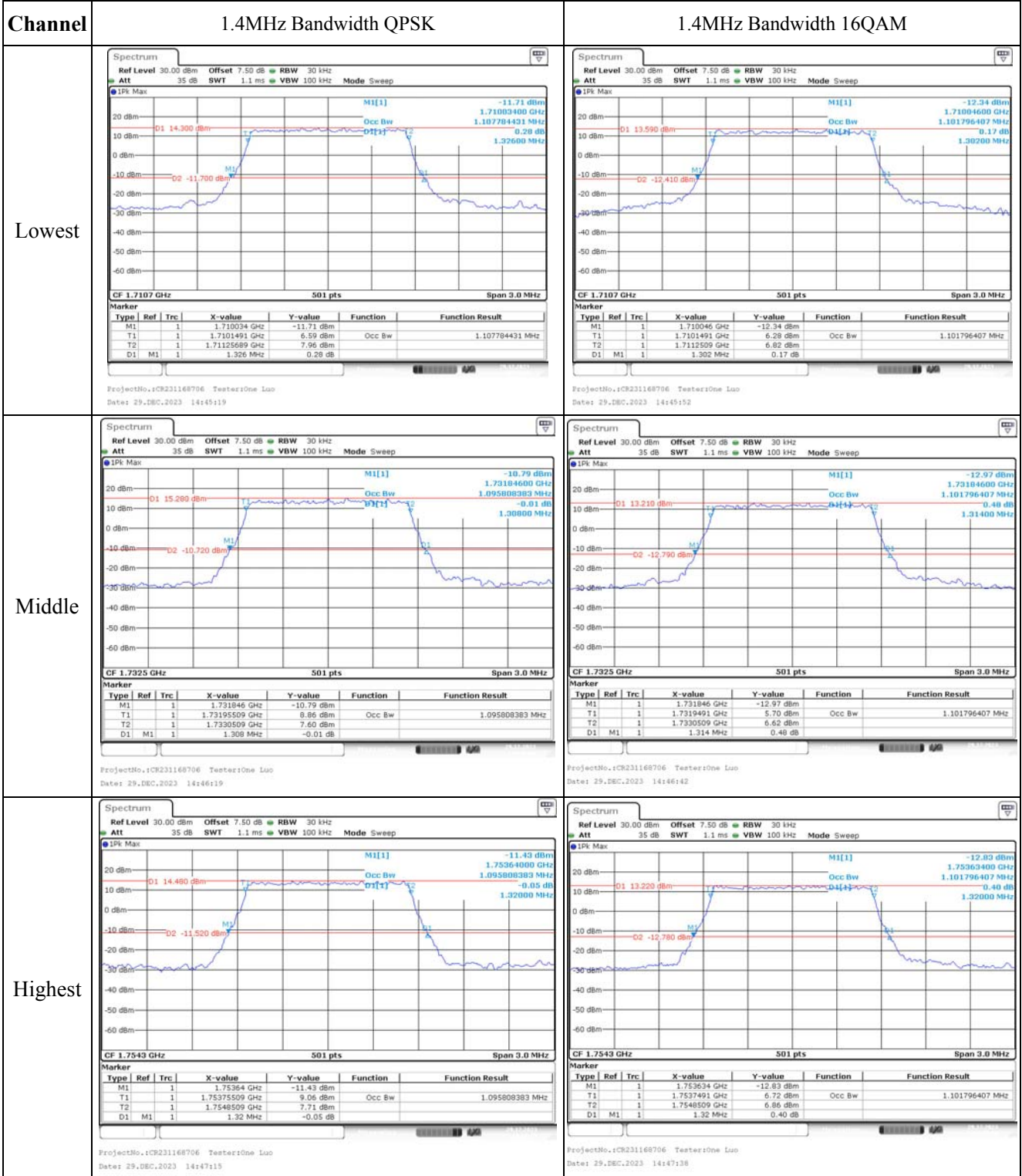
Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.6	1711.017	1710.00	1754.095	1755
	-20	3.6	1711.041	1710.00	1754.062	1755
	-10	3.6	1711.004	1710.00	1754.015	1755
	0	3.6	1711.012	1710.00	1754.017	1755
	10	3.6	1711.086	1710.00	1754.058	1755
	20	3.6	1711.058	1710.00	1754.022	1755
	30	3.6	1711.011	1710.00	1754.026	1755
	40	3.6	1711.067	1710.00	1754.003	1755
	50	3.6	1711.022	1710.00	1754.065	1755
Frequency Stability vs. Voltage	20	3.45	1711.020	1710.00	1754.058	1755
	20	4.12	1711.067	1710.00	1754.064	1755
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.6	1711.097	1710.00	1754.056	1755
	-20	3.6	1711.082	1710.00	1754.097	1755
	-10	3.6	1711.037	1710.00	1754.097	1755
	0	3.6	1711.093	1710.00	1754.006	1755
	10	3.6	1711.006	1710.00	1754.045	1755
	20	3.6	1711.058	1710.00	1754.022	1755
	30	3.6	1711.035	1710.00	1754.078	1755
	40	3.6	1711.001	1710.00	1754.075	1755
	50	3.6	1711.022	1710.00	1754.076	1755
Frequency Stability vs. Voltage	20	3.45	1711.026	1710.00	1754.007	1755
	20	4.12	1711.026	1710.00	1754.021	1755
					Result:	Pass

Test Plots(Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM																																																																						
Lowest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.710024 GHz</td> <td>-13.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7101587 GHz</td> <td>7.66 dBm</td> <td>Occ Bw</td> <td>2.694610778 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7128533 GHz</td> <td>7.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.952 MHz</td> <td>-0.74 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.710024 GHz	-13.55 dBm			T1	1		1.7101587 GHz	7.66 dBm	Occ Bw	2.694610778 MHz	T2	1		1.7128533 GHz	7.35 dBm			D1	M1	1	2.952 MHz	-0.74 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.710012 GHz</td> <td>-16.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7101587 GHz</td> <td>6.54 dBm</td> <td>Occ Bw</td> <td>2.694610778 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7128533 GHz</td> <td>5.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.988 MHz</td> <td>-0.29 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.710012 GHz	-16.06 dBm			T1	1		1.7101587 GHz	6.54 dBm	Occ Bw	2.694610778 MHz	T2	1		1.7128533 GHz	5.59 dBm			D1	M1	1	2.988 MHz	-0.29 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.710024 GHz	-13.55 dBm																																																																				
T1	1		1.7101587 GHz	7.66 dBm	Occ Bw	2.694610778 MHz																																																																		
T2	1		1.7128533 GHz	7.35 dBm																																																																				
D1	M1	1	2.952 MHz	-0.74 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.710012 GHz	-16.06 dBm																																																																				
T1	1		1.7101587 GHz	6.54 dBm	Occ Bw	2.694610778 MHz																																																																		
T2	1		1.7128533 GHz	5.59 dBm																																																																				
D1	M1	1	2.988 MHz	-0.29 dB																																																																				
Middle	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.731024 GHz</td> <td>-14.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7311587 GHz</td> <td>8.29 dBm</td> <td>Occ Bw</td> <td>2.694610778 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7338533 GHz</td> <td>7.10 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.964 MHz</td> <td>-0.31 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.731024 GHz	-14.92 dBm			T1	1		1.7311587 GHz	8.29 dBm	Occ Bw	2.694610778 MHz	T2	1		1.7338533 GHz	7.10 dBm			D1	M1	1	2.964 MHz	-0.31 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.731024 GHz</td> <td>-14.69 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7311587 GHz</td> <td>7.72 dBm</td> <td>Occ Bw</td> <td>2.694610778 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7338533 GHz</td> <td>6.39 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.964 MHz</td> <td>0.59 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.731024 GHz	-14.69 dBm			T1	1		1.7311587 GHz	7.72 dBm	Occ Bw	2.694610778 MHz	T2	1		1.7338533 GHz	6.39 dBm			D1	M1	1	2.964 MHz	0.59 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.731024 GHz	-14.92 dBm																																																																				
T1	1		1.7311587 GHz	8.29 dBm	Occ Bw	2.694610778 MHz																																																																		
T2	1		1.7338533 GHz	7.10 dBm																																																																				
D1	M1	1	2.964 MHz	-0.31 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.731024 GHz	-14.69 dBm																																																																				
T1	1		1.7311587 GHz	7.72 dBm	Occ Bw	2.694610778 MHz																																																																		
T2	1		1.7338533 GHz	6.39 dBm																																																																				
D1	M1	1	2.964 MHz	0.59 dB																																																																				
Highest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.752024 GHz</td> <td>-14.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7521467 GHz</td> <td>7.54 dBm</td> <td>Occ Bw</td> <td>2.706586826 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7548533 GHz</td> <td>8.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.964 MHz</td> <td>-0.17 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.752024 GHz	-14.27 dBm			T1	1		1.7521467 GHz	7.54 dBm	Occ Bw	2.706586826 MHz	T2	1		1.7548533 GHz	8.24 dBm			D1	M1	1	2.964 MHz	-0.17 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.752 GHz</td> <td>-15.67 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7521587 GHz</td> <td>7.01 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7548413 GHz</td> <td>7.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>3.0 MHz</td> <td>-0.59 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.752 GHz	-15.67 dBm			T1	1		1.7521587 GHz	7.01 dBm	Occ Bw	2.682634731 MHz	T2	1		1.7548413 GHz	7.91 dBm			D1	M1	1	3.0 MHz	-0.59 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.752024 GHz	-14.27 dBm																																																																				
T1	1		1.7521467 GHz	7.54 dBm	Occ Bw	2.706586826 MHz																																																																		
T2	1		1.7548533 GHz	8.24 dBm																																																																				
D1	M1	1	2.964 MHz	-0.17 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.752 GHz	-15.67 dBm																																																																				
T1	1		1.7521587 GHz	7.01 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		1.7548413 GHz	7.91 dBm																																																																				
D1	M1	1	3.0 MHz	-0.59 dB																																																																				

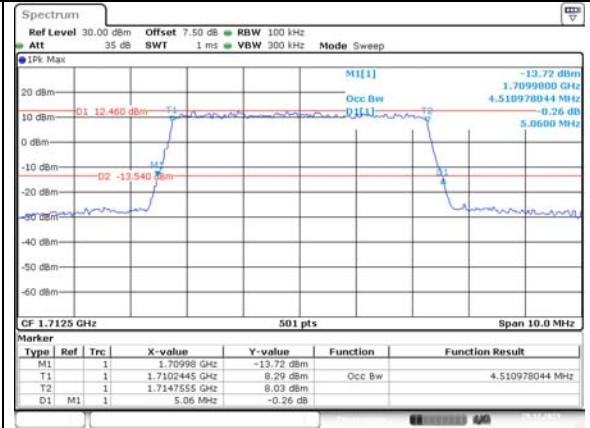
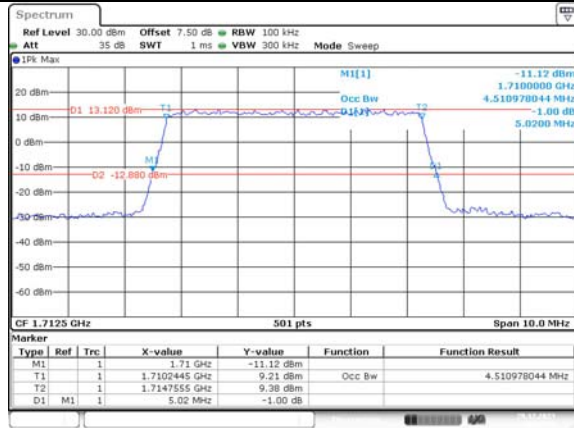
Occupied Bandwidth

Channel

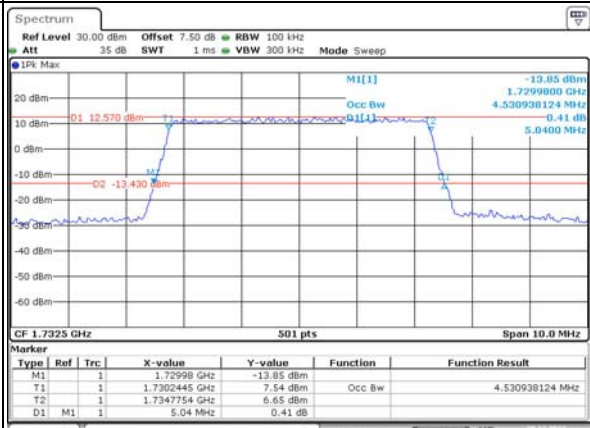
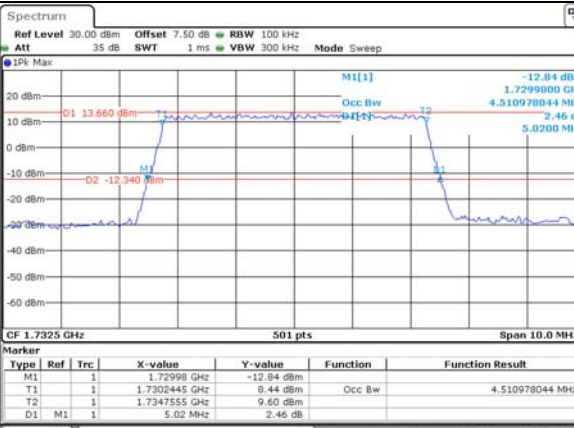
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

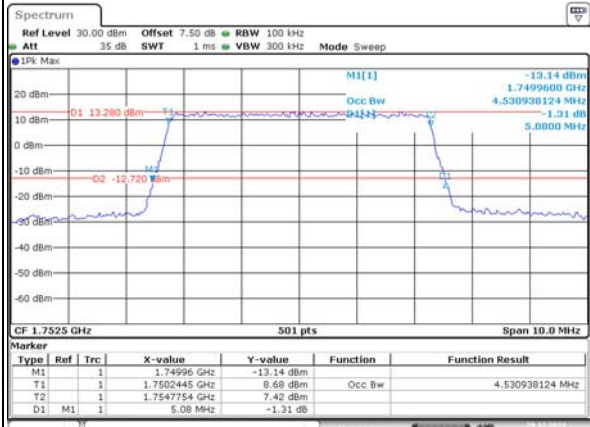
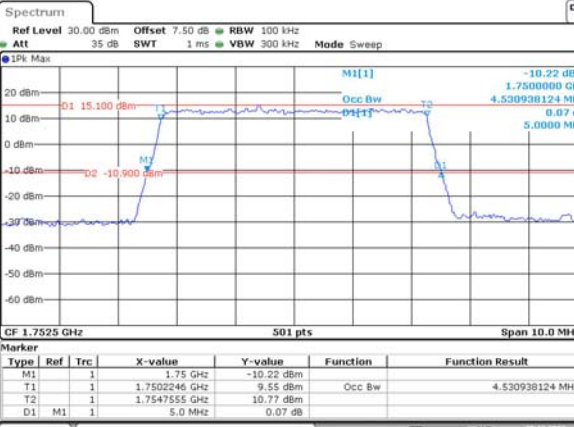
Lowest



Middle



Highest



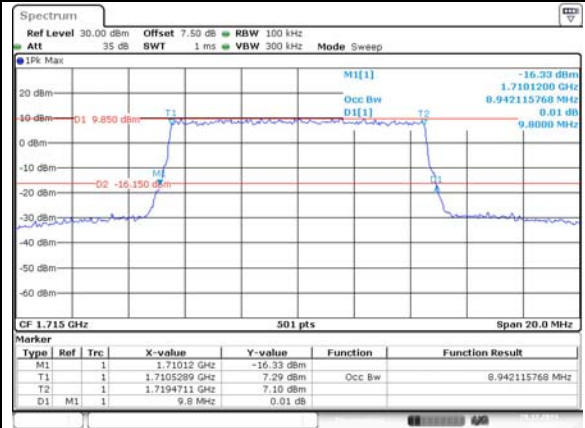
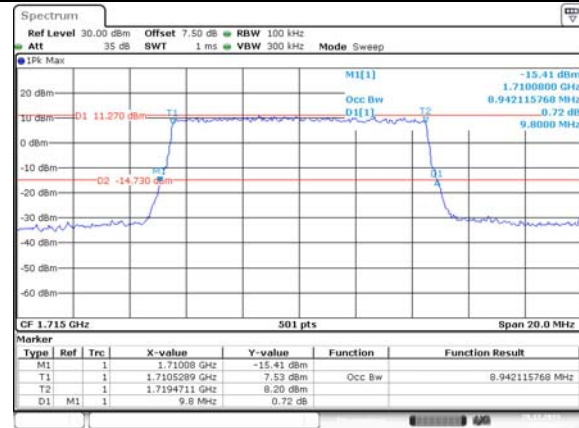
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

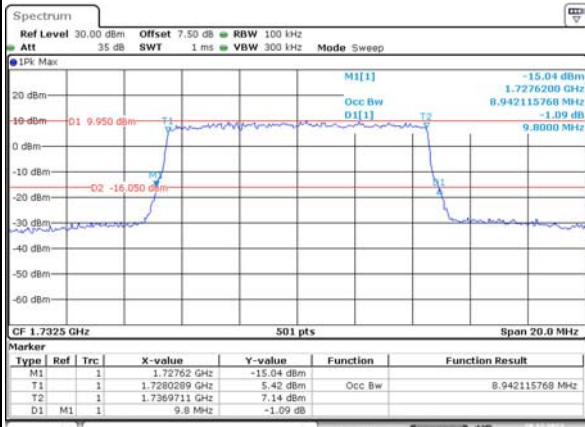
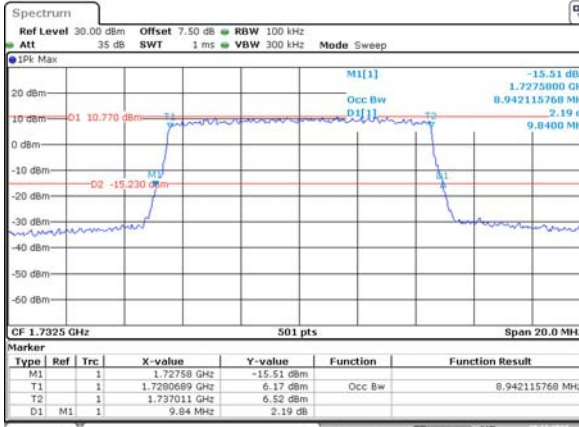
Lowest



ProjectNo.:CR231168706 Tester:One Luo
Date: 29.Dec.2023 14:56:34

ProjectNo.:CR231168706 Tester:One Luo
Date: 29.Dec.2023 14:57:07

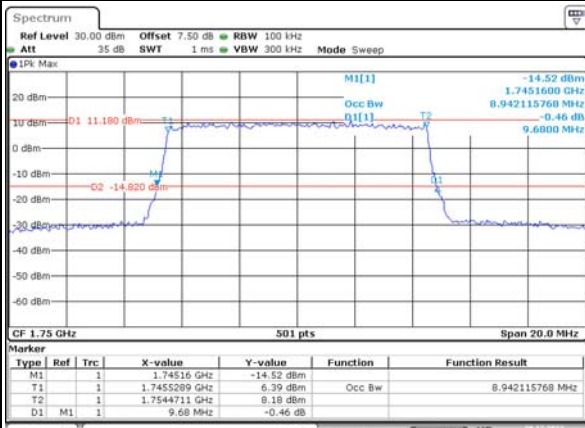
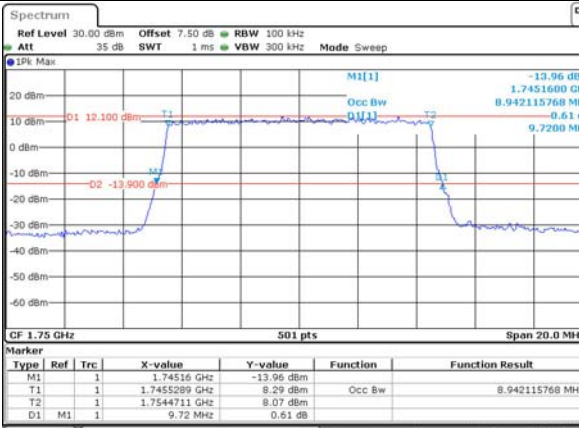
Middle



ProjectNo.:CR231168706 Tester:One Luo
Date: 29.Dec.2023 14:57:41

ProjectNo.:CR231168706 Tester:One Luo
Date: 29.Dec.2023 14:58:11

Highest



ProjectNo.:CR231168706 Tester:One Luo
Date: 29.Dec.2023 14:58:54

ProjectNo.:CR231168706 Tester:One Luo
Date: 29.Dec.2023 14:59:18

Occupied Bandwidth

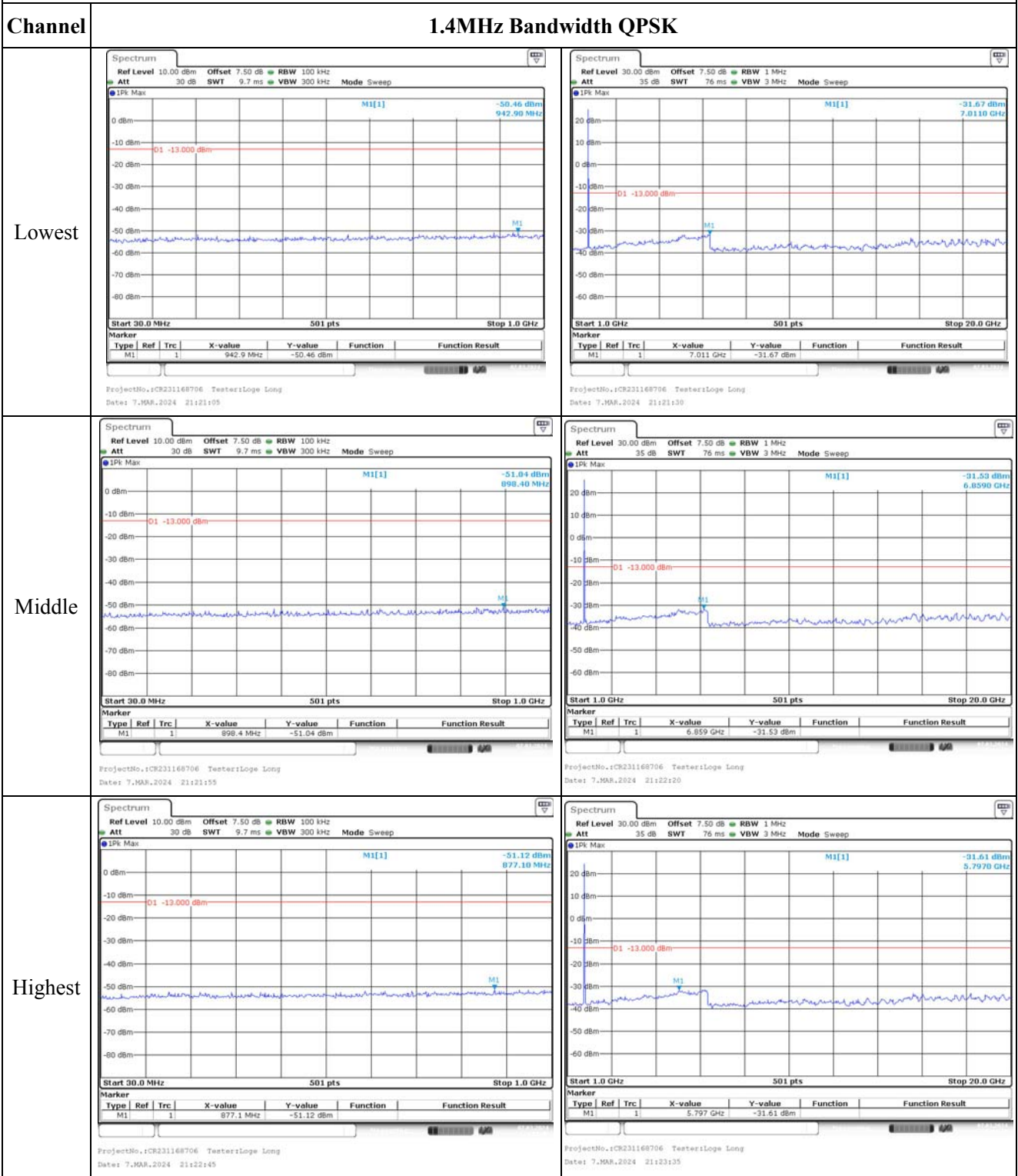
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM																																																																						
Lowest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>1.71006 GHz</td> <td>-12.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td>1</td> <td>1.7107325 GHz</td> <td>8.99 dBm</td> <td>Occ Bw</td> <td>13.532934132 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td>1</td> <td>1.7242665 GHz</td> <td>9.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>14.94 MHz</td> <td>-0.35 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231168706 Tester:One Luo Date: 29.DEC.2023 15:00:43</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	1.71006 GHz	-12.83 dBm			T1	1	1	1.7107325 GHz	8.99 dBm	Occ Bw	13.532934132 MHz	T2	1	1	1.7242665 GHz	9.88 dBm			D1	M1	1	14.94 MHz	-0.35 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>1.71006 GHz</td> <td>-13.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td>1</td> <td>1.7107924 GHz</td> <td>9.29 dBm</td> <td>Occ Bw</td> <td>13.473053892 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td>1</td> <td>1.7242665 GHz</td> <td>8.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>14.88 MHz</td> <td>0.70 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231168706 Tester:One Luo Date: 29.DEC.2023 15:01:17</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	1.71006 GHz	-13.46 dBm			T1	1	1	1.7107924 GHz	9.29 dBm	Occ Bw	13.473053892 MHz	T2	1	1	1.7242665 GHz	8.73 dBm			D1	M1	1	14.88 MHz	0.70 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1	1	1.71006 GHz	-12.83 dBm																																																																				
T1	1	1	1.7107325 GHz	8.99 dBm	Occ Bw	13.532934132 MHz																																																																		
T2	1	1	1.7242665 GHz	9.88 dBm																																																																				
D1	M1	1	14.94 MHz	-0.35 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1	1	1.71006 GHz	-13.46 dBm																																																																				
T1	1	1	1.7107924 GHz	9.29 dBm	Occ Bw	13.473053892 MHz																																																																		
T2	1	1	1.7242665 GHz	8.73 dBm																																																																				
D1	M1	1	14.88 MHz	0.70 dB																																																																				
Middle	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>1.72512 GHz</td> <td>-10.02 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td>1</td> <td>1.7257934 GHz</td> <td>9.42 dBm</td> <td>Occ Bw</td> <td>13.473053892 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td>1</td> <td>1.7392665 GHz</td> <td>9.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>14.82 MHz</td> <td>-0.52 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231168706 Tester:One Luo Date: 29.DEC.2023 15:01:55</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	1.72512 GHz	-10.02 dBm			T1	1	1	1.7257934 GHz	9.42 dBm	Occ Bw	13.473053892 MHz	T2	1	1	1.7392665 GHz	9.44 dBm			D1	M1	1	14.82 MHz	-0.52 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>1.72512 GHz</td> <td>-11.52 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td>1</td> <td>1.7257934 GHz</td> <td>9.76 dBm</td> <td>Occ Bw</td> <td>13.473053892 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td>1</td> <td>1.7392665 GHz</td> <td>8.52 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>14.82 MHz</td> <td>-0.79 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231168706 Tester:One Luo Date: 29.DEC.2023 15:02:12</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	1.72512 GHz	-11.52 dBm			T1	1	1	1.7257934 GHz	9.76 dBm	Occ Bw	13.473053892 MHz	T2	1	1	1.7392665 GHz	8.52 dBm			D1	M1	1	14.82 MHz	-0.79 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1	1	1.72512 GHz	-10.02 dBm																																																																				
T1	1	1	1.7257934 GHz	9.42 dBm	Occ Bw	13.473053892 MHz																																																																		
T2	1	1	1.7392665 GHz	9.44 dBm																																																																				
D1	M1	1	14.82 MHz	-0.52 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1	1	1.72512 GHz	-11.52 dBm																																																																				
T1	1	1	1.7257934 GHz	9.76 dBm	Occ Bw	13.473053892 MHz																																																																		
T2	1	1	1.7392665 GHz	8.52 dBm																																																																				
D1	M1	1	14.82 MHz	-0.79 dB																																																																				
Highest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>1.74006 GHz</td> <td>-11.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td>1</td> <td>1.7407335 GHz</td> <td>9.74 dBm</td> <td>Occ Bw</td> <td>13.52934132 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td>1</td> <td>1.7542665 GHz</td> <td>10.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>14.94 MHz</td> <td>-0.53 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231168706 Tester:One Luo Date: 29.DEC.2023 15:03:03</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	1.74006 GHz	-11.95 dBm			T1	1	1	1.7407335 GHz	9.74 dBm	Occ Bw	13.52934132 MHz	T2	1	1	1.7542665 GHz	10.60 dBm			D1	M1	1	14.94 MHz	-0.53 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>1.74012 GHz</td> <td>-11.56 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td>1</td> <td>1.7407934 GHz</td> <td>9.92 dBm</td> <td>Occ Bw</td> <td>13.473053892 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td>1</td> <td>1.7542665 GHz</td> <td>9.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>14.82 MHz</td> <td>-0.43 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231168706 Tester:One Luo Date: 29.DEC.2023 15:03:17</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	1.74012 GHz	-11.56 dBm			T1	1	1	1.7407934 GHz	9.92 dBm	Occ Bw	13.473053892 MHz	T2	1	1	1.7542665 GHz	9.61 dBm			D1	M1	1	14.82 MHz	-0.43 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1	1	1.74006 GHz	-11.95 dBm																																																																				
T1	1	1	1.7407335 GHz	9.74 dBm	Occ Bw	13.52934132 MHz																																																																		
T2	1	1	1.7542665 GHz	10.60 dBm																																																																				
D1	M1	1	14.94 MHz	-0.53 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1	1	1.74012 GHz	-11.56 dBm																																																																				
T1	1	1	1.7407934 GHz	9.92 dBm	Occ Bw	13.473053892 MHz																																																																		
T2	1	1	1.7542665 GHz	9.61 dBm																																																																				
D1	M1	1	14.82 MHz	-0.43 dB																																																																				

Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM																																																																						
Lowest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.71032 GHz</td> <td>-11.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7110579 GHz</td> <td>10.01 dBm</td> <td>Occ Bw</td> <td>17.964071856 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.729022 GHz</td> <td>10.03 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.52 MHz</td> <td>0.10 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.71032 GHz	-11.94 dBm			T1	1		1.7110579 GHz	10.01 dBm	Occ Bw	17.964071856 MHz	T2	1		1.729022 GHz	10.03 dBm			D1	M1	1	19.52 MHz	0.10 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.71024 GHz</td> <td>-12.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7110579 GHz</td> <td>8.79 dBm</td> <td>Occ Bw</td> <td>17.964071856 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.729022 GHz</td> <td>9.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.6 MHz</td> <td>1.03 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.71024 GHz	-12.96 dBm			T1	1		1.7110579 GHz	8.79 dBm	Occ Bw	17.964071856 MHz	T2	1		1.729022 GHz	9.94 dBm			D1	M1	1	19.6 MHz	1.03 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.71032 GHz	-11.94 dBm																																																																				
T1	1		1.7110579 GHz	10.01 dBm	Occ Bw	17.964071856 MHz																																																																		
T2	1		1.729022 GHz	10.03 dBm																																																																				
D1	M1	1	19.52 MHz	0.10 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.71024 GHz	-12.96 dBm																																																																				
T1	1		1.7110579 GHz	8.79 dBm	Occ Bw	17.964071856 MHz																																																																		
T2	1		1.729022 GHz	9.94 dBm																																																																				
D1	M1	1	19.6 MHz	1.03 dB																																																																				
Middle	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.72282 GHz</td> <td>-10.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7235579 GHz</td> <td>10.16 dBm</td> <td>Occ Bw</td> <td>17.964071856 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.741522 GHz</td> <td>9.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.52 MHz</td> <td>-0.74 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.72282 GHz	-10.55 dBm			T1	1		1.7235579 GHz	10.16 dBm	Occ Bw	17.964071856 MHz	T2	1		1.741522 GHz	9.76 dBm			D1	M1	1	19.52 MHz	-0.74 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.72282 GHz</td> <td>-11.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7236377 GHz</td> <td>10.20 dBm</td> <td>Occ Bw</td> <td>17.964071856 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.741522 GHz</td> <td>9.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.44 MHz</td> <td>0.66 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.72282 GHz	-11.61 dBm			T1	1		1.7236377 GHz	10.20 dBm	Occ Bw	17.964071856 MHz	T2	1		1.741522 GHz	9.07 dBm			D1	M1	1	19.44 MHz	0.66 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.72282 GHz	-10.55 dBm																																																																				
T1	1		1.7235579 GHz	10.16 dBm	Occ Bw	17.964071856 MHz																																																																		
T2	1		1.741522 GHz	9.76 dBm																																																																				
D1	M1	1	19.52 MHz	-0.74 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.72282 GHz	-11.61 dBm																																																																				
T1	1		1.7236377 GHz	10.20 dBm	Occ Bw	17.964071856 MHz																																																																		
T2	1		1.741522 GHz	9.07 dBm																																																																				
D1	M1	1	19.44 MHz	0.66 dB																																																																				
Highest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.73532 GHz</td> <td>-11.37 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7360579 GHz</td> <td>10.46 dBm</td> <td>Occ Bw</td> <td>17.964071856 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.754022 GHz</td> <td>10.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.44 MHz</td> <td>-0.15 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.73532 GHz	-11.37 dBm			T1	1		1.7360579 GHz	10.46 dBm	Occ Bw	17.964071856 MHz	T2	1		1.754022 GHz	10.78 dBm			D1	M1	1	19.44 MHz	-0.15 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.73524 GHz</td> <td>-12.70 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7360579 GHz</td> <td>9.78 dBm</td> <td>Occ Bw</td> <td>17.964071856 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.754022 GHz</td> <td>9.45 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.52 MHz</td> <td>0.29 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.73524 GHz	-12.70 dBm			T1	1		1.7360579 GHz	9.78 dBm	Occ Bw	17.964071856 MHz	T2	1		1.754022 GHz	9.45 dBm			D1	M1	1	19.52 MHz	0.29 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.73532 GHz	-11.37 dBm																																																																				
T1	1		1.7360579 GHz	10.46 dBm	Occ Bw	17.964071856 MHz																																																																		
T2	1		1.754022 GHz	10.78 dBm																																																																				
D1	M1	1	19.44 MHz	-0.15 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		1.73524 GHz	-12.70 dBm																																																																				
T1	1		1.7360579 GHz	9.78 dBm	Occ Bw	17.964071856 MHz																																																																		
T2	1		1.754022 GHz	9.45 dBm																																																																				
D1	M1	1	19.52 MHz	0.29 dB																																																																				

1RB:

Spurious Emissions at Antenna Terminal

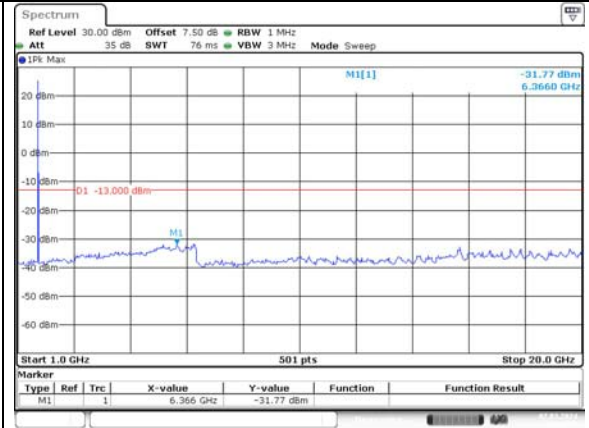
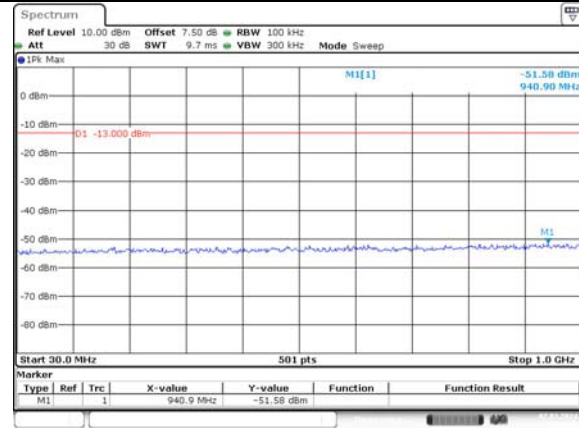


Spurious Emissions at Antenna Terminal

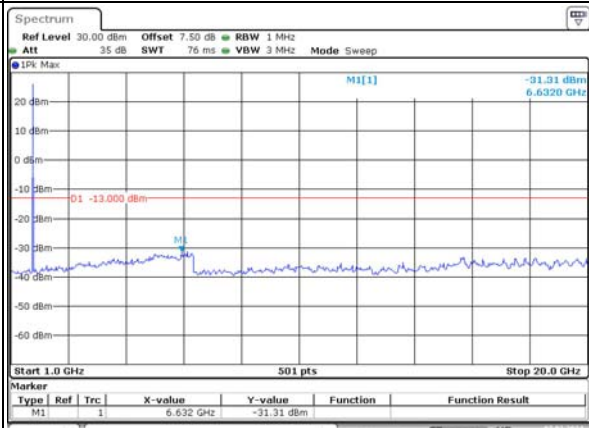
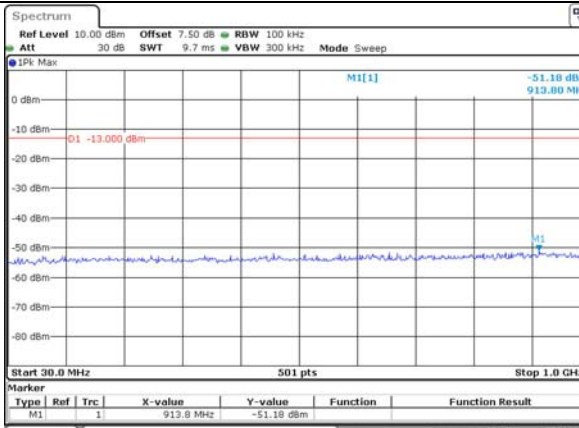
Channel

3MHz Bandwidth QPSK

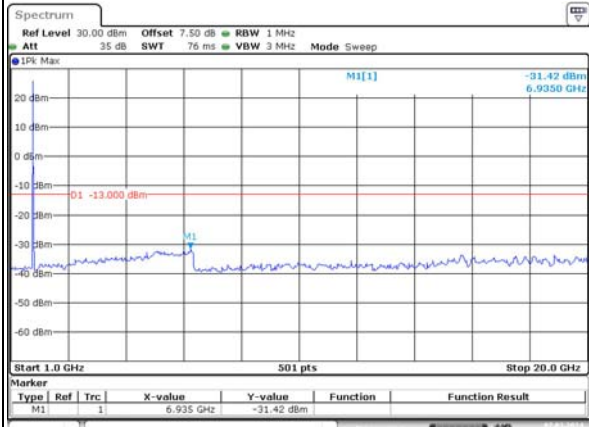
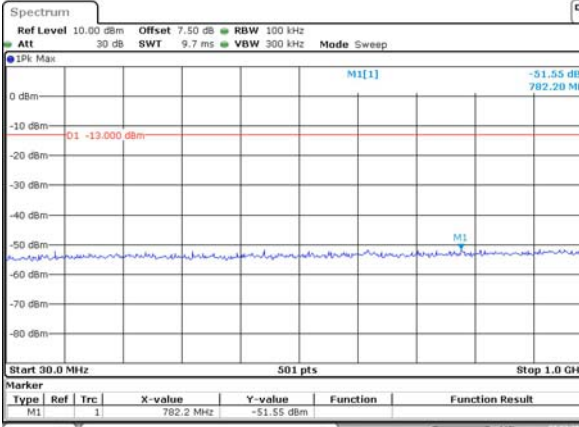
Lowest



Middle



Highest

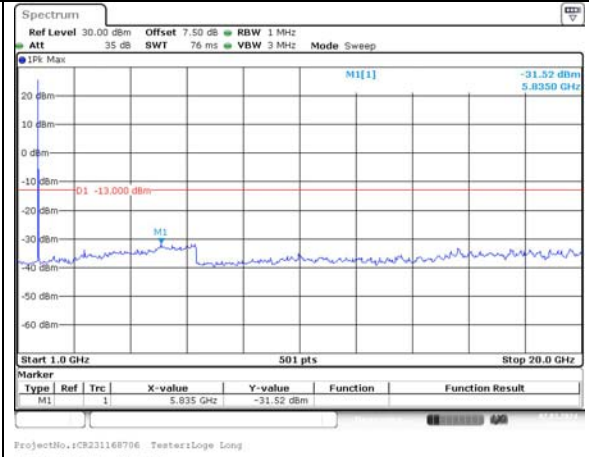
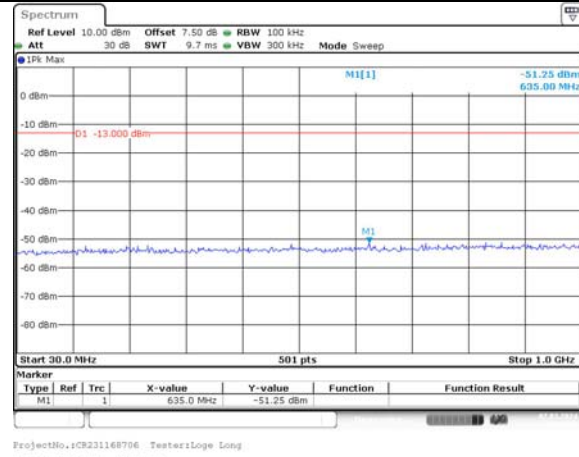


Spurious Emissions at Antenna Terminal

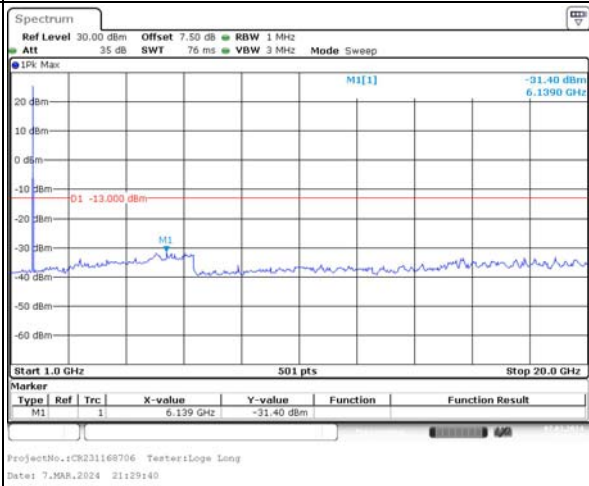
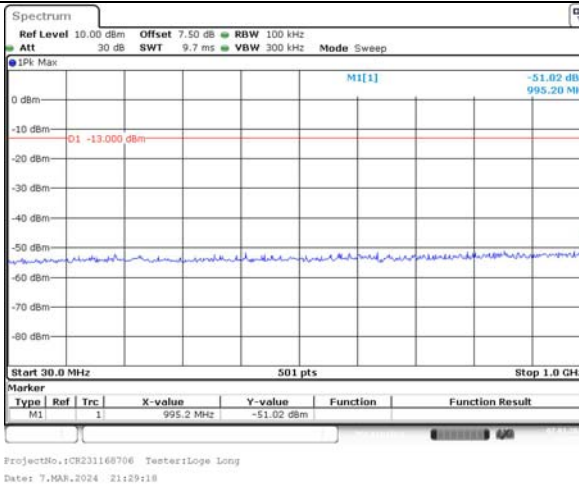
Channel

5MHz Bandwidth QPSK

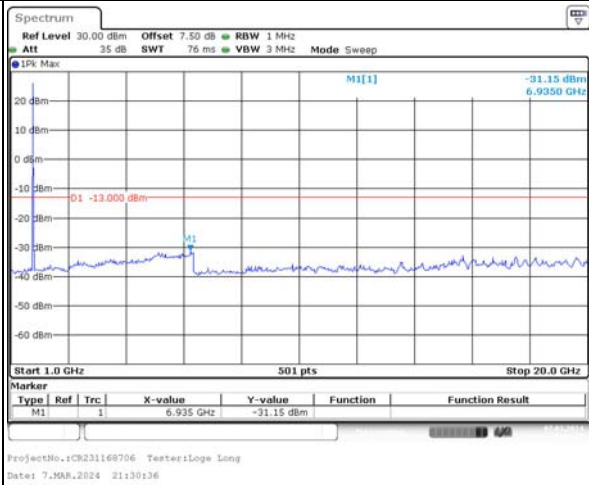
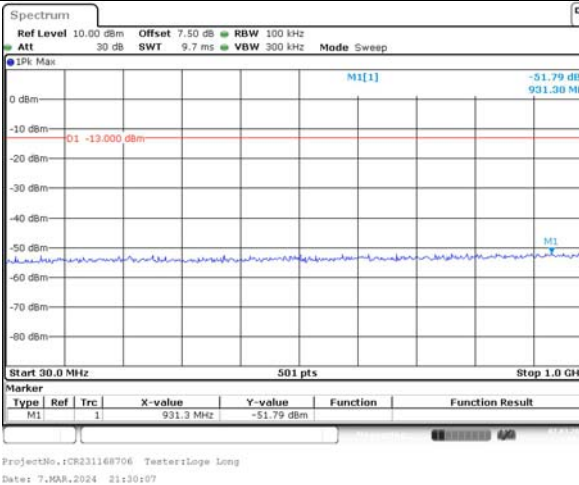
Lowest



Middle



Highest

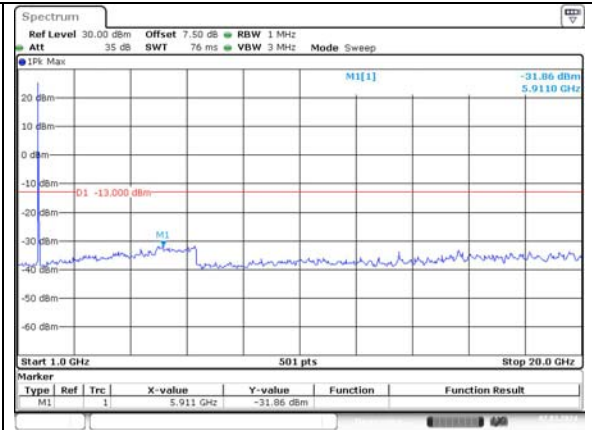
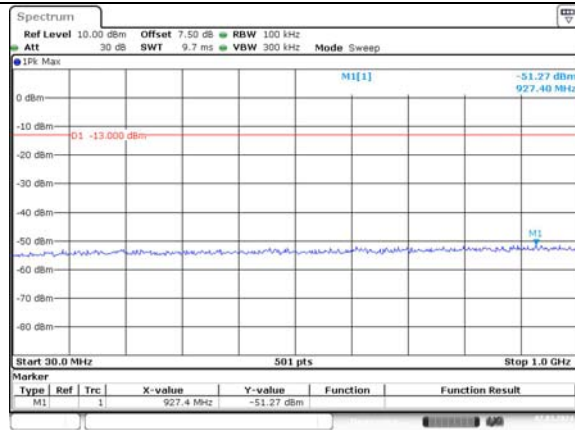


Spurious Emissions at Antenna Terminal

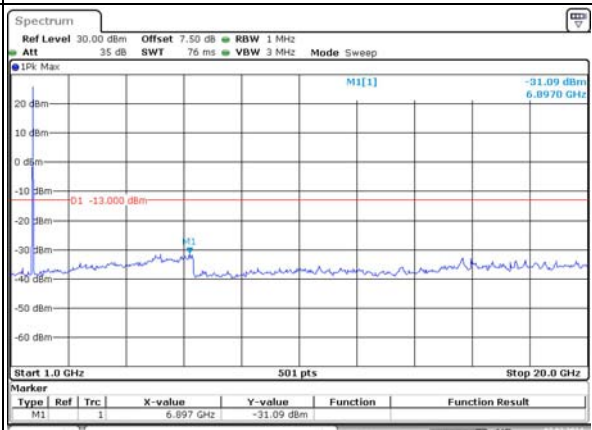
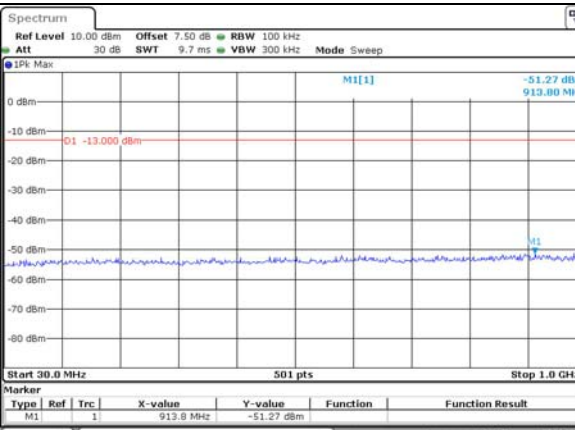
Channel

10MHz Bandwidth QPSK

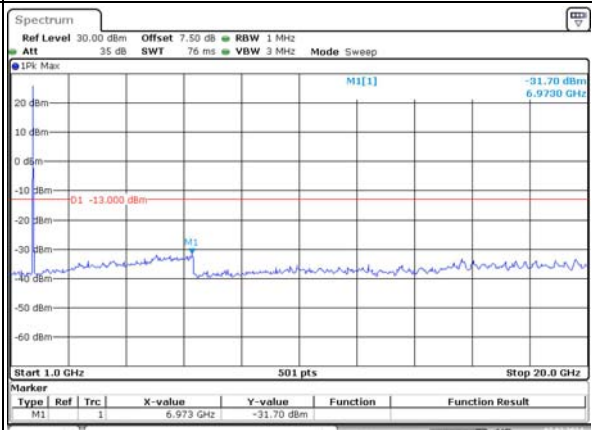
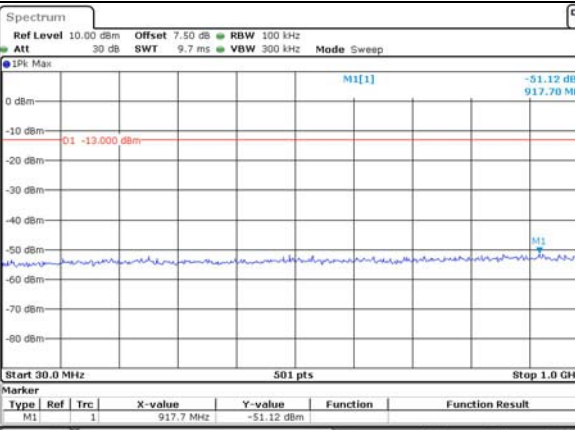
Lowest



Middle



Highest

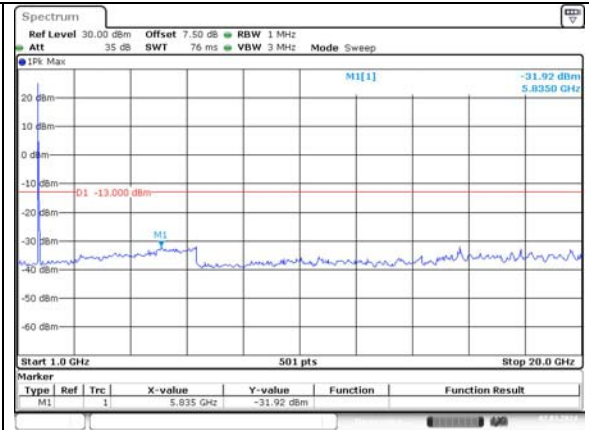
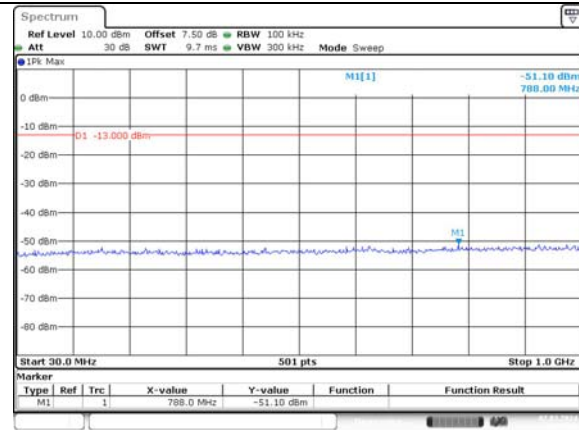


Spurious Emissions at Antenna Terminal

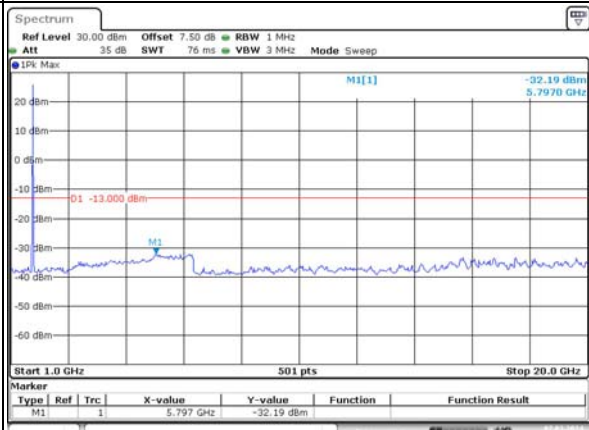
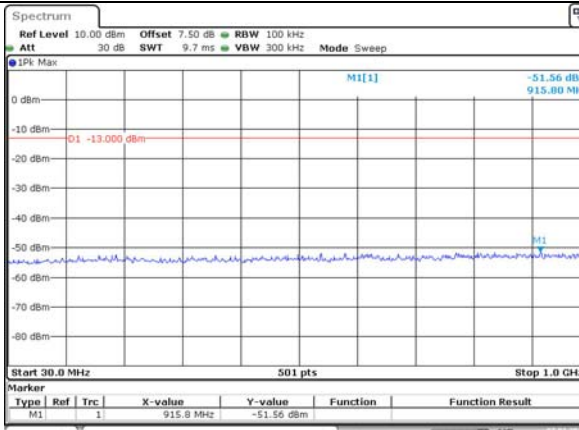
Channel

15MHz Bandwidth QPSK

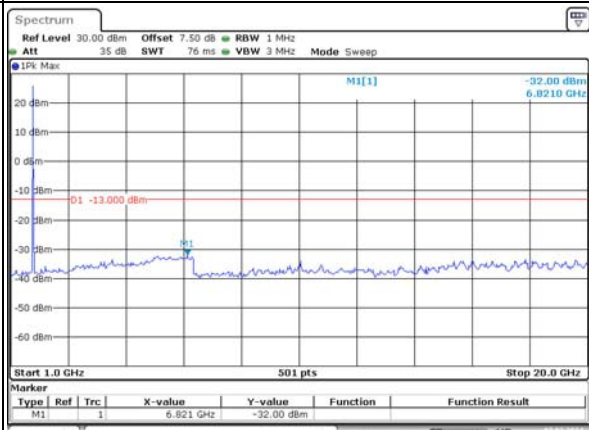
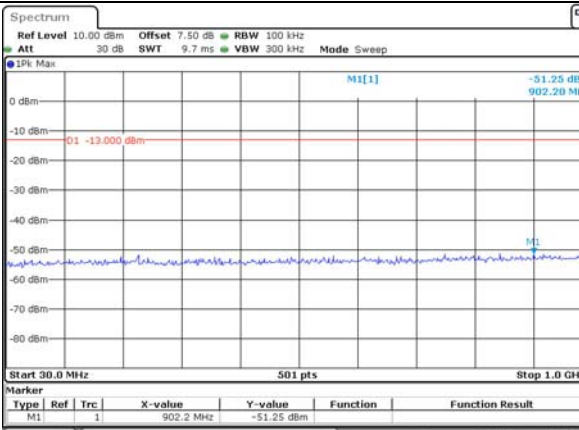
Lowest



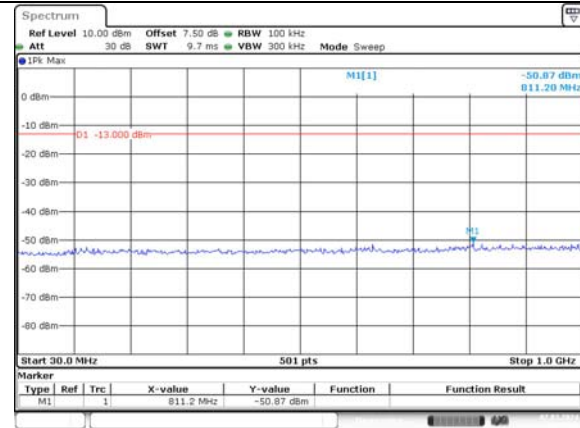
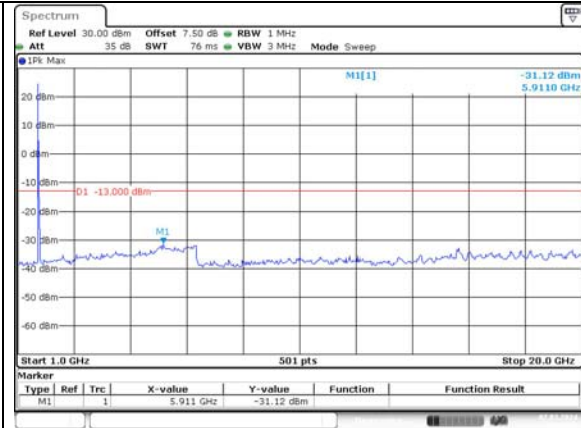
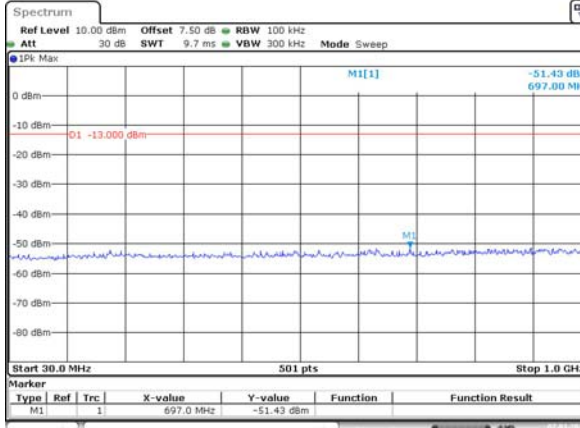
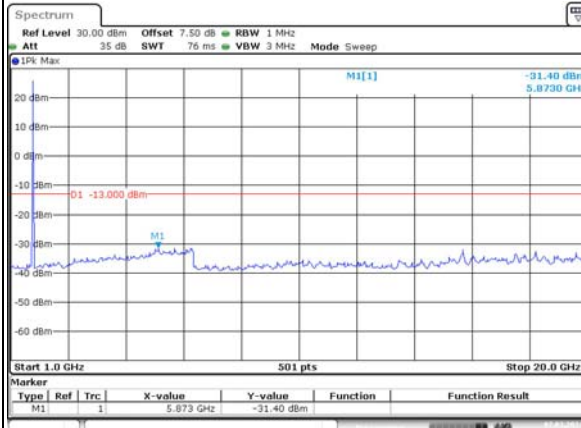
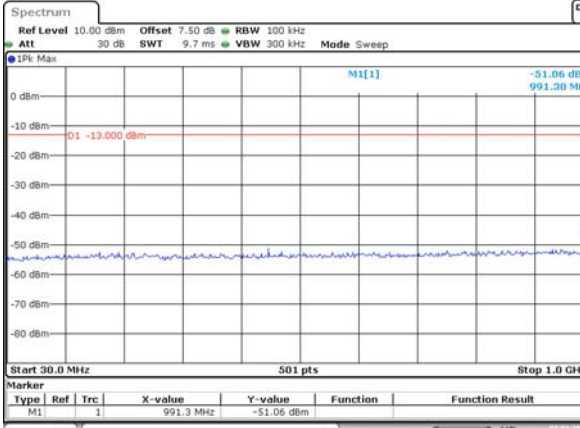
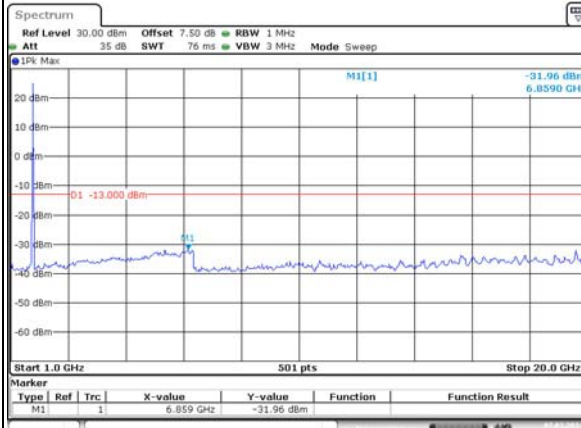
Middle



Highest

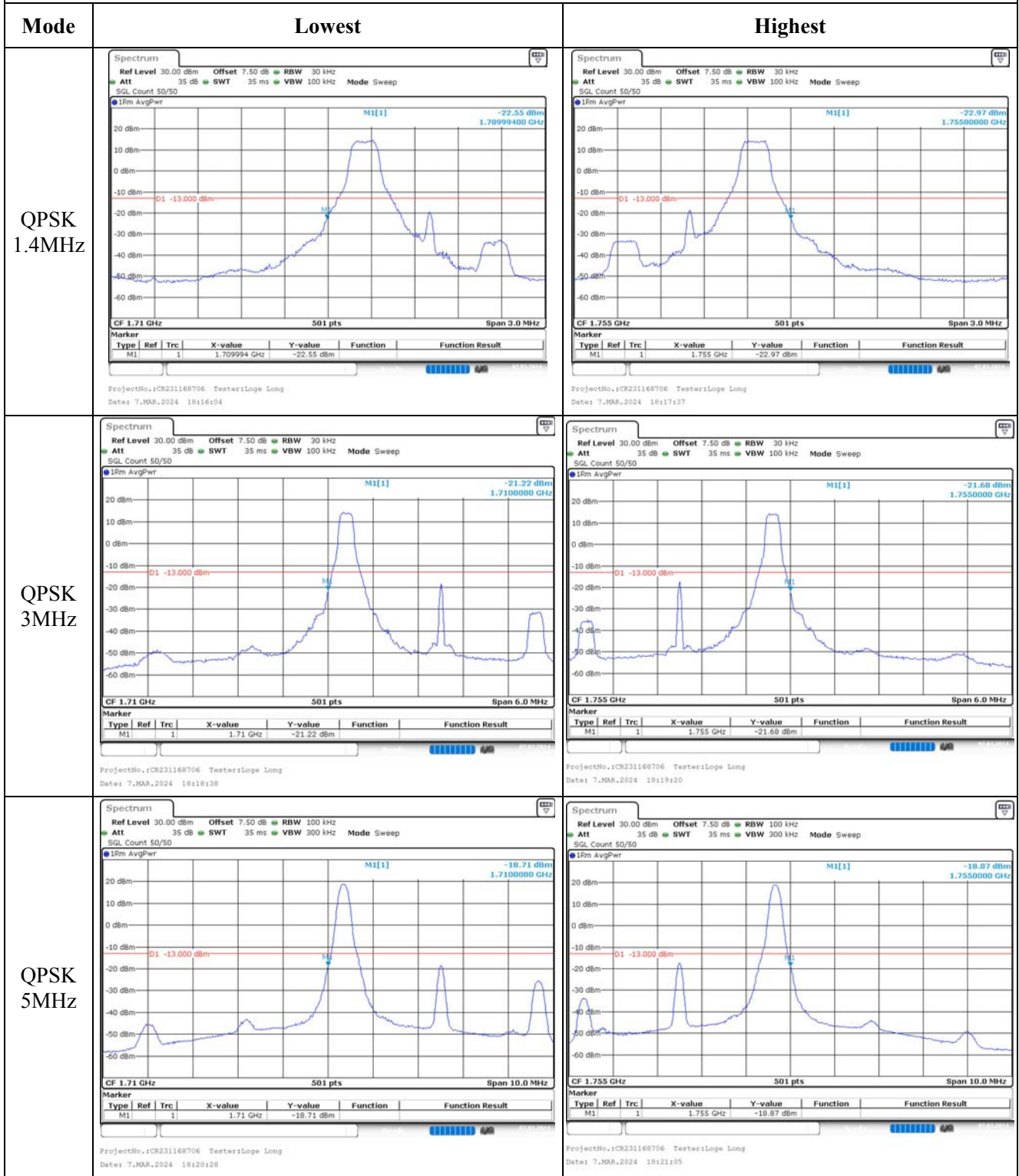


Spurious Emissions at Antenna Terminal

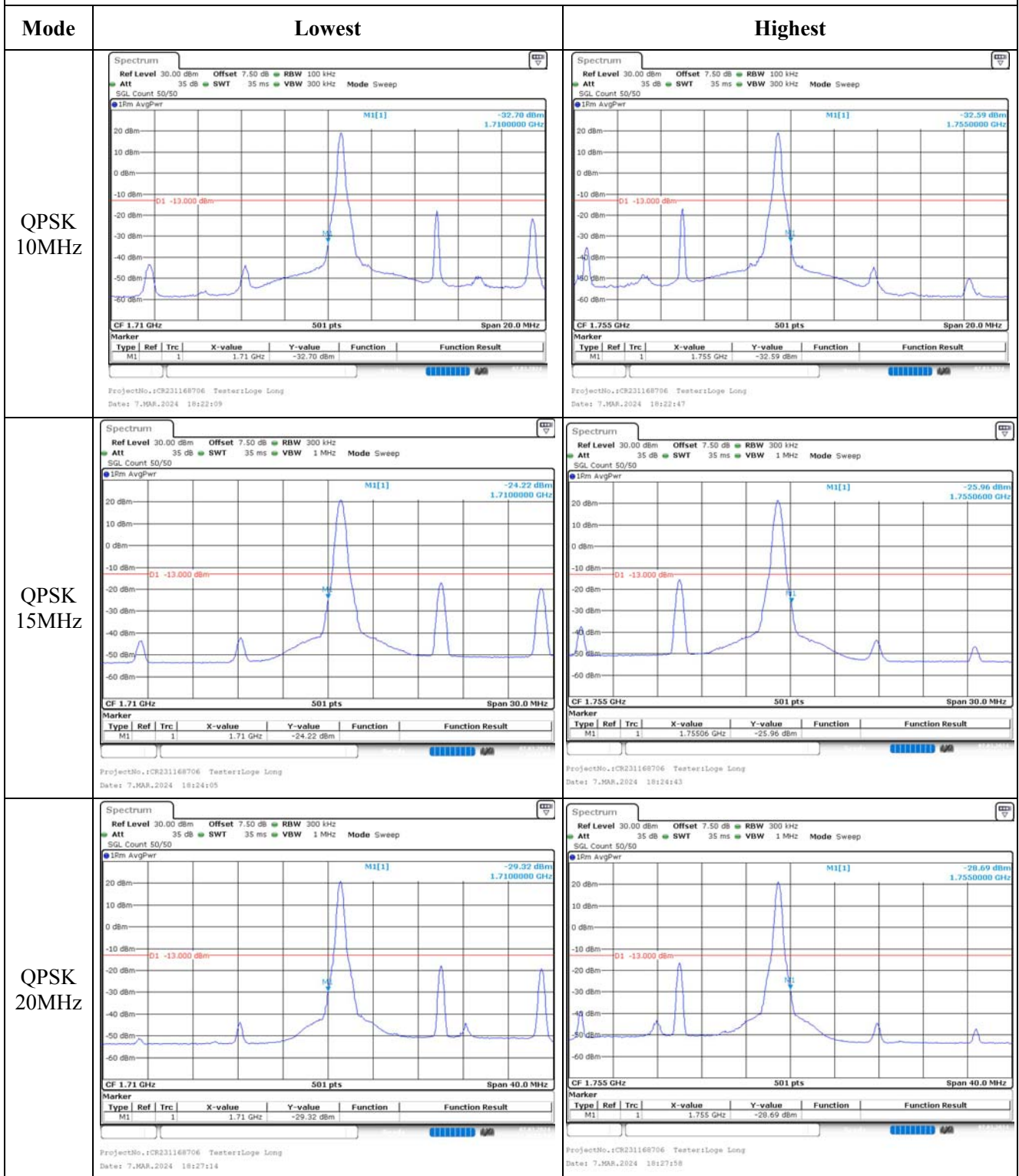
Channel	20MHz Bandwidth QPSK	
Lowest	 <p>ProjectNo.:CR231168706 Tester:Loqe Long Date: 7.MAR.2024 21:39:34</p>	 <p>ProjectNo.:CR231168706 Tester:Loqe Long Date: 7.MAR.2024 21:40:00</p>
Middle	 <p>ProjectNo.:CR231168706 Tester:Loqe Long Date: 7.MAR.2024 21:40:31</p>	 <p>ProjectNo.:CR231168706 Tester:Loqe Long Date: 7.MAR.2024 21:41:06</p>
Highest	 <p>ProjectNo.:CR231168706 Tester:Loqe Long Date: 7.MAR.2024 21:41:37</p>	 <p>ProjectNo.:CR231168706 Tester:Loqe Long Date: 7.MAR.2024 21:41:59</p>

1RB:

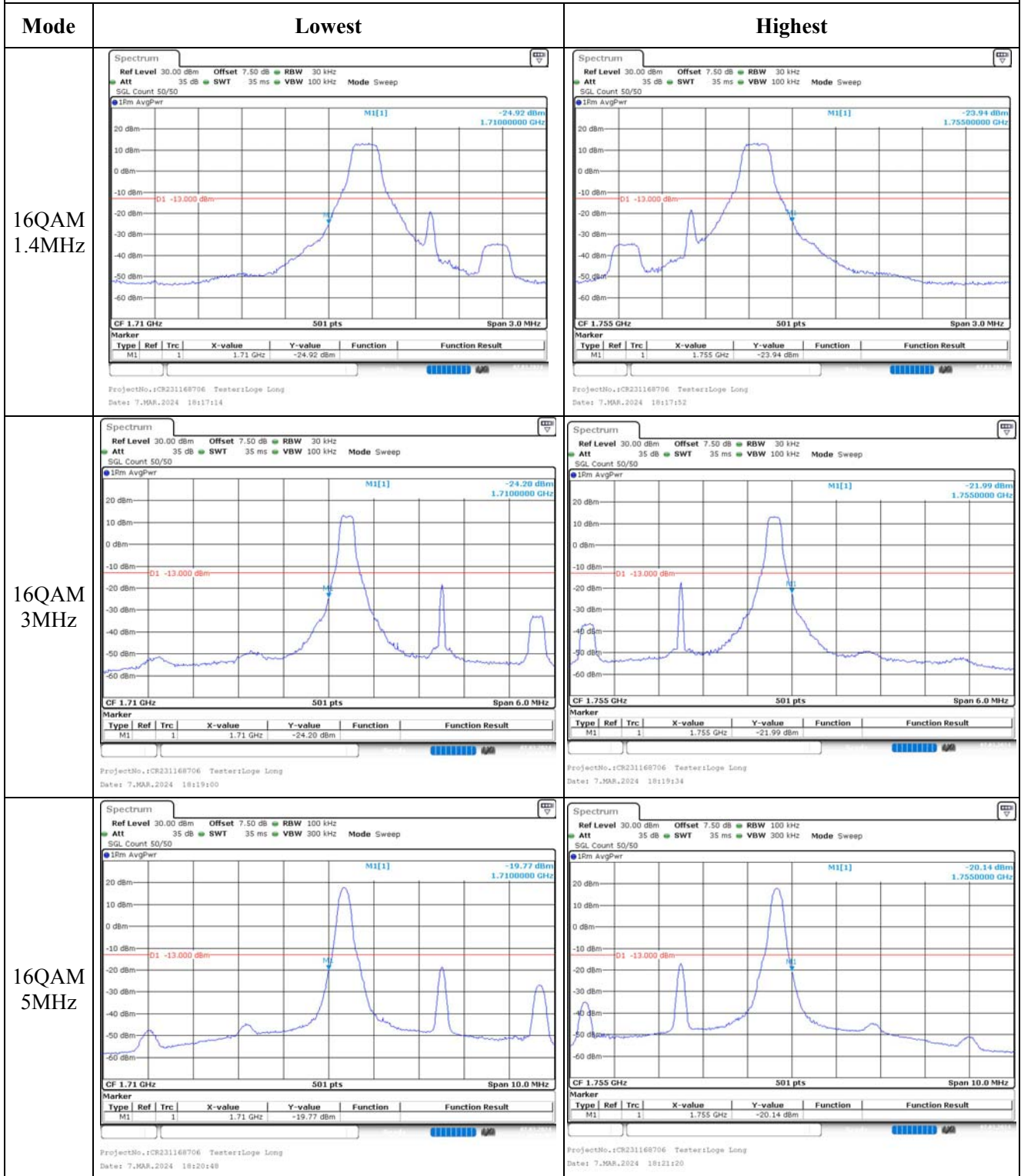
Out of band emission, Band Edge



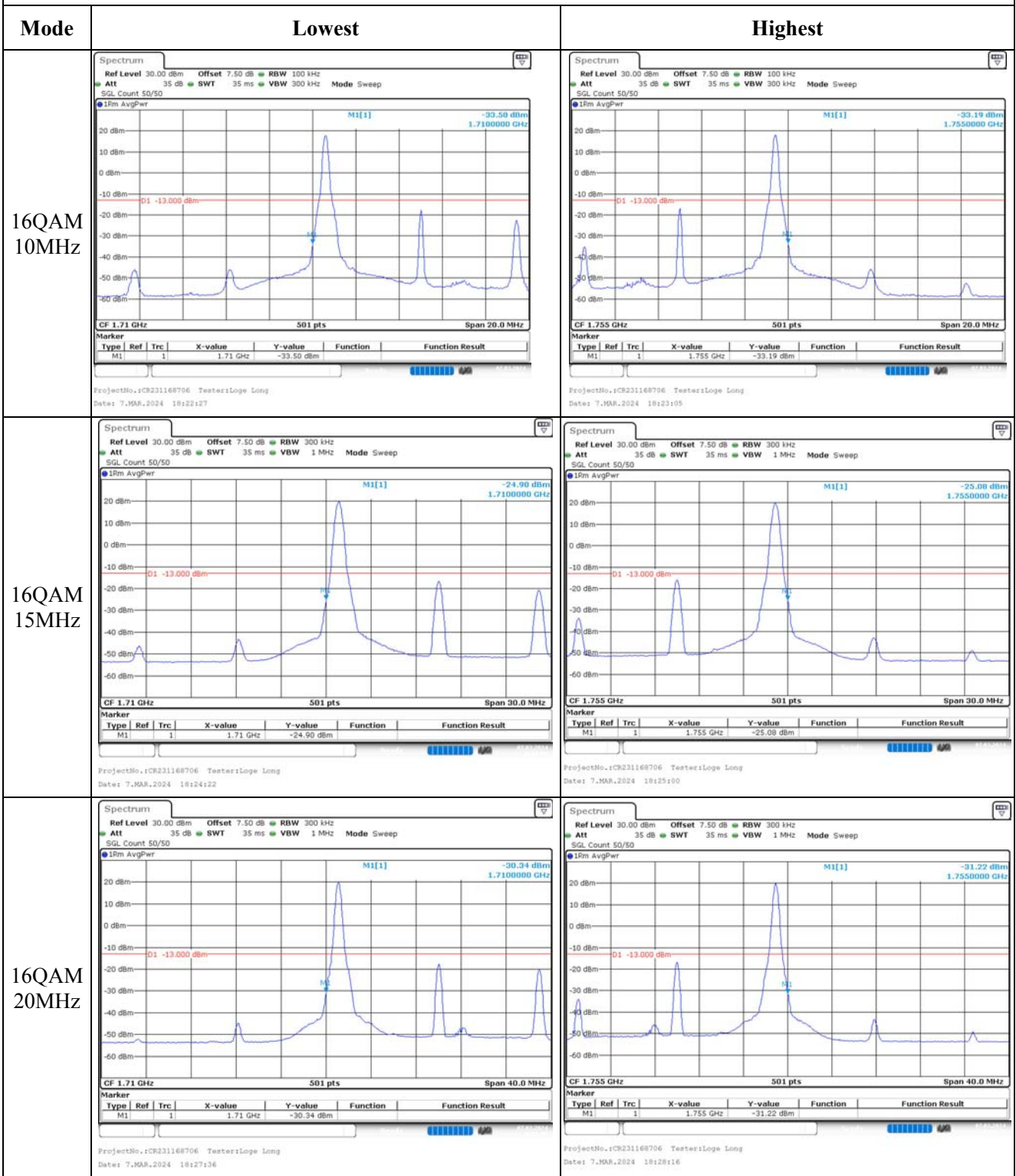
Out of band emission, Band Edge



Out of band emission, Band Edge

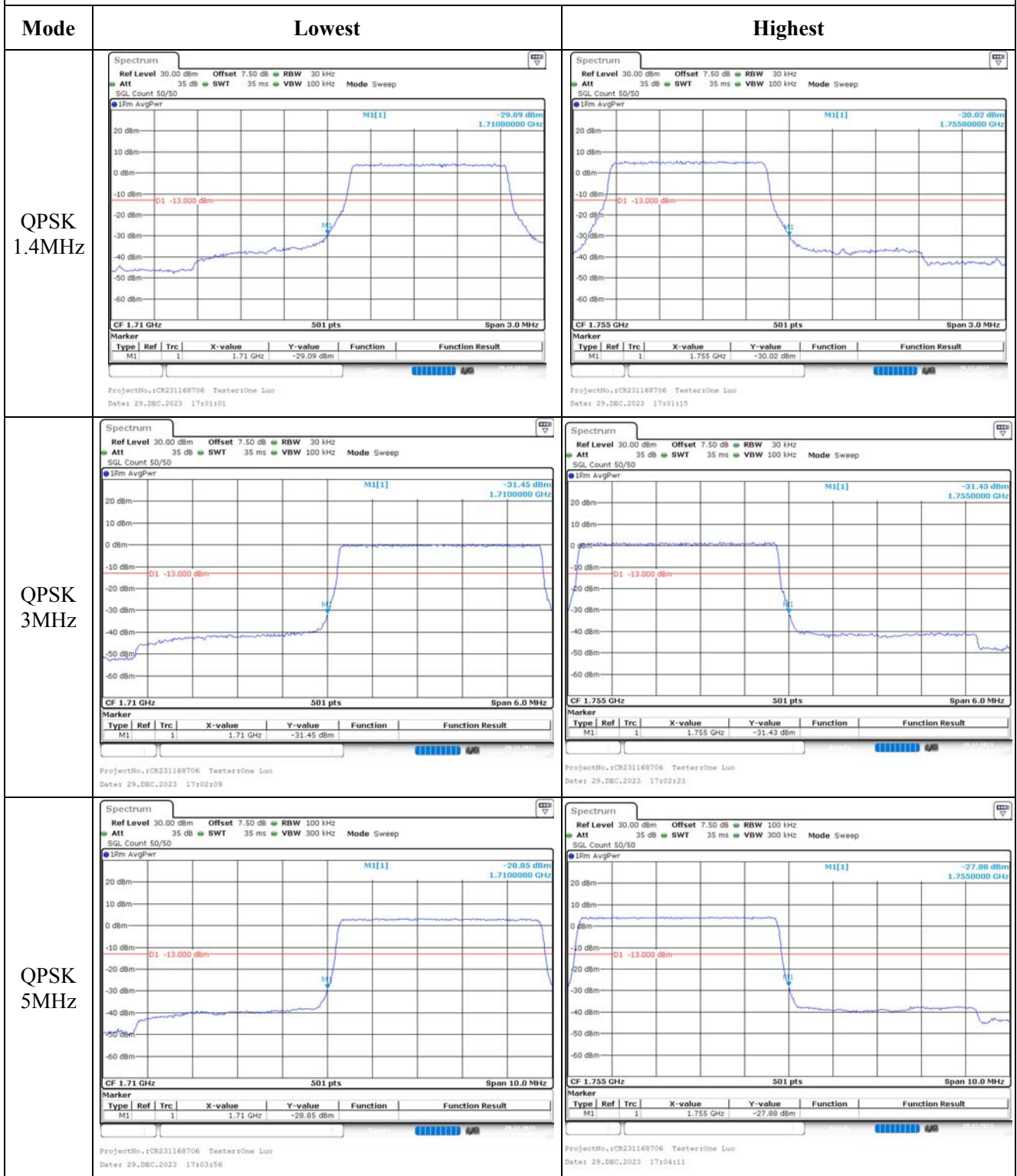


Out of band emission, Band Edge

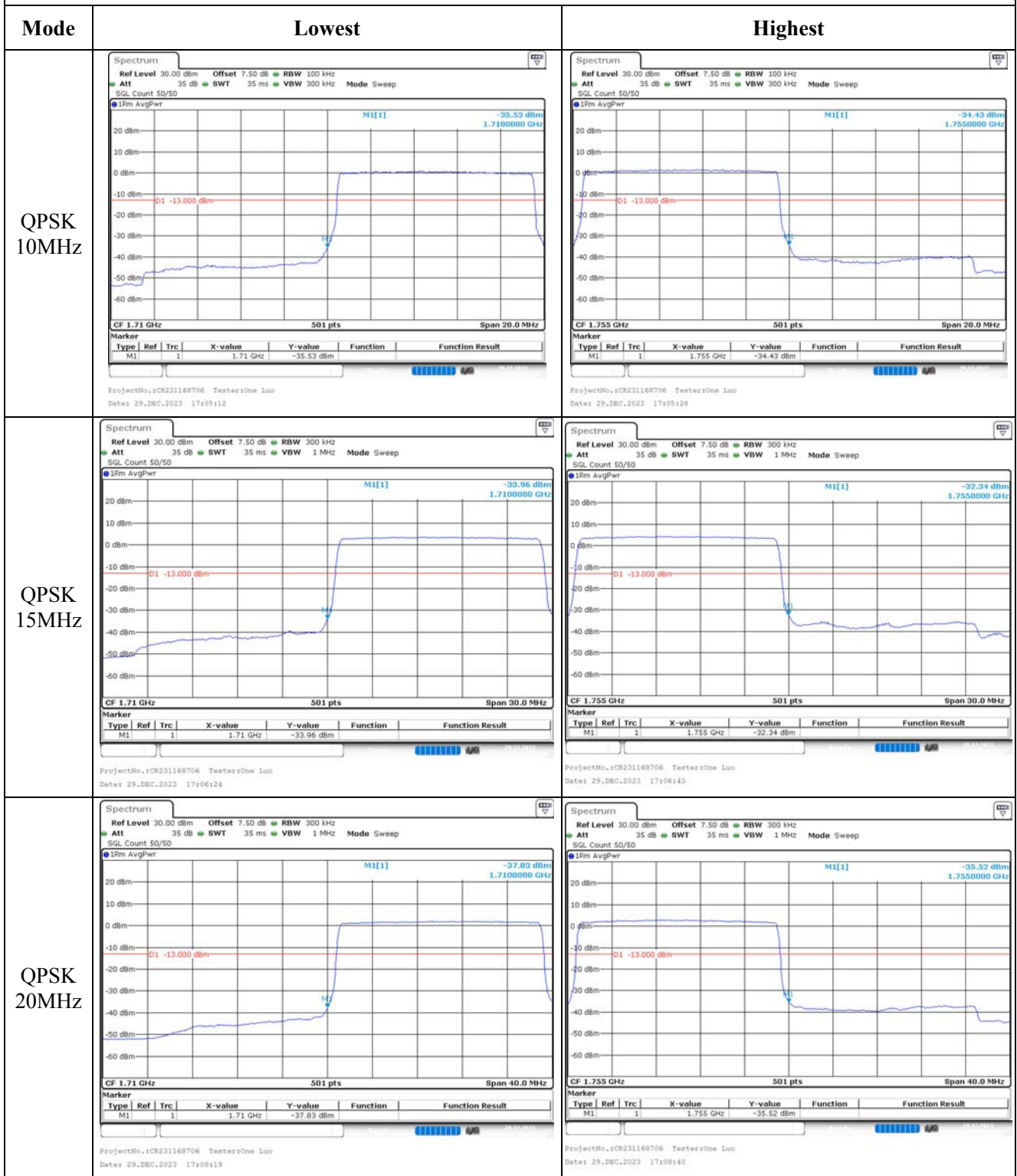


Full RB:

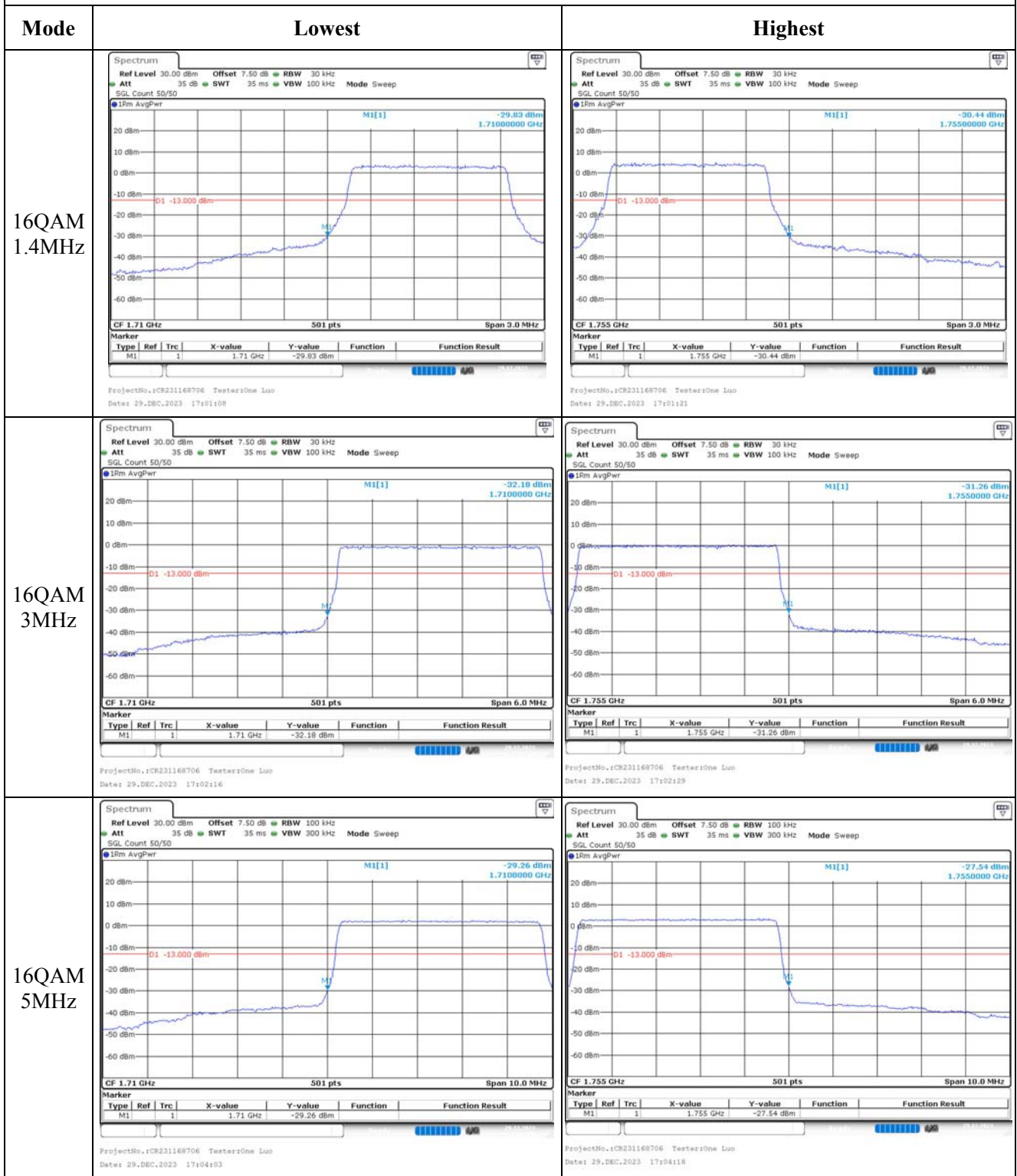
Out of band emission, Band Edge



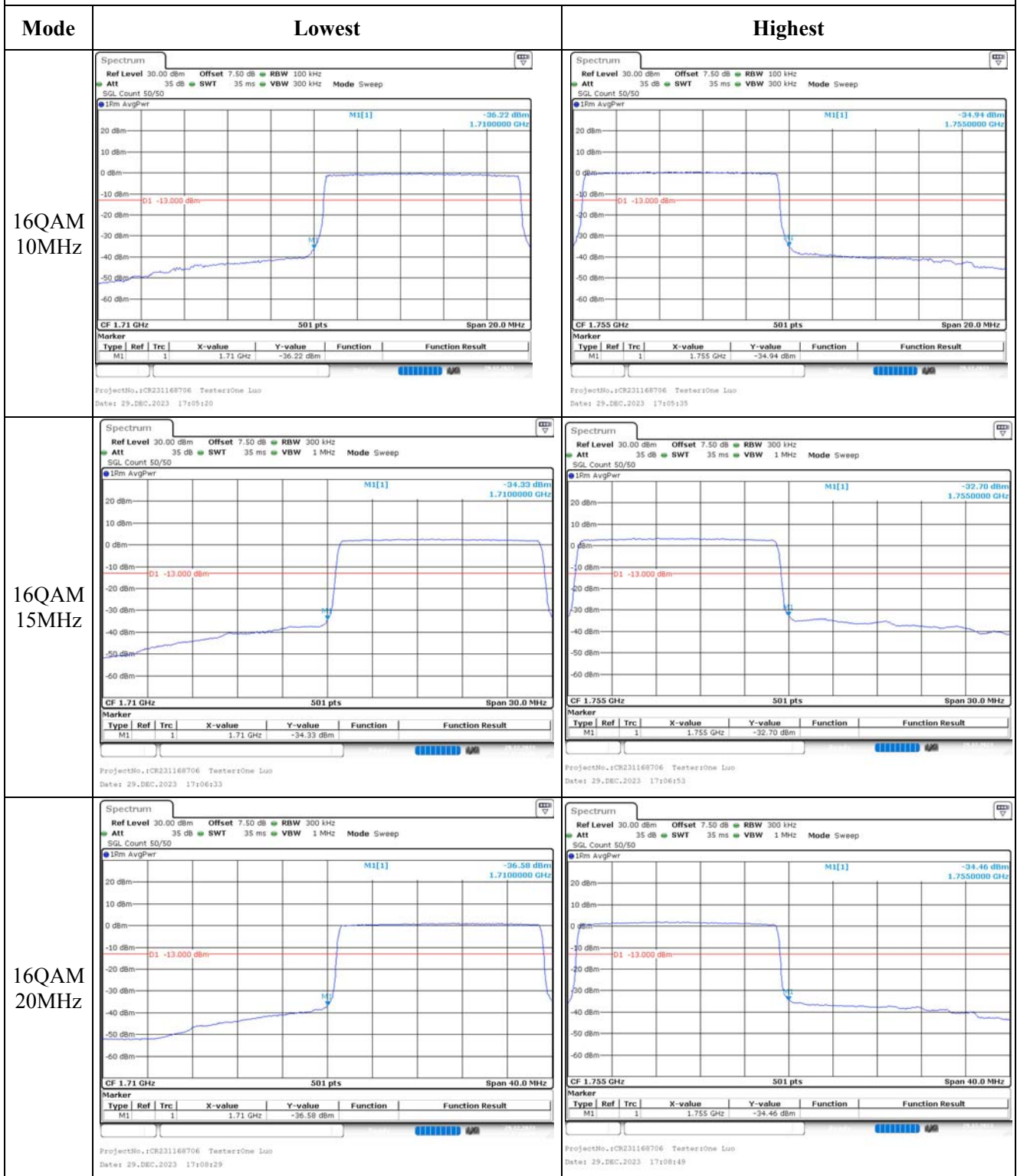
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.6 Antenna Port Test Data and Results for LTE Band 5

Serial Number:	2DYI-2	Test Date:	2024/2/6~2024/3/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3-21.5	Relative Humidity: (%)	28-65	ATM Pressure: (kPa)	100.9-101.4
----------------------	-----------	------------------------------	-------	------------------------	-------------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	824.7	836.5	848.3
3MHz	825.5	836.5	847.5
5MHz	826.5	836.5	846.5
10MHz	829	836.5	844

Test Data:

RF Output Power						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	23.01	22.47	22.33	18.5	38.45
	RB1#3	23	22.51	22.46		
	RB1#5	22.86	22.53	22.39		
	RB3#0	22.86	22.38	22.44		
	RB3#3	22.82	22.39	22.37		
	RB6#0	21.92	21.44	21.46		
1.4MHz 16QAM	RB1#0	22.08	21.4	21.31	17.66	38.45
	RB1#3	22.17	21.63	21.44		
	RB1#5	21.87	21.56	21.32		
	RB3#0	21.69	21.41	21.38		
	RB3#3	21.37	21.55	21.36		
	RB6#0	20.58	20.45	21.25		
3MHz QPSK	RB1#0	23.52	23.54	23.73	19.22	38.45
	RB1#8	23.39	23.45	23.44		
	RB1#14	23.49	23.52	23.46		
	RB6#0	22.54	22.57	22.62		
	RB6#9	22.5	22.48	22.48		
	RB15#0	22.44	22.55	22.5		
3MHz 16QAM	RB1#0	22.7	22.2	22.49	18.19	38.45
	RB1#8	22.29	22.39	22.37		
	RB1#14	22.57	22.48	22.37		
	RB6#0	21.46	21.45	21.51		
	RB6#9	21.42	21.37	21.47		
	RB15#0	21.39	21.54	21.44		
5MHz QPSK	RB1#0	23.42	23.42	23.59	19.08	38.45
	RB1#13	23.38	23.39	23.48		
	RB1#24	23.36	23.46	23.39		
	RB15#0	22.39	22.5	22.6		
	RB15#10	22.42	22.58	22.48		
	RB25#0	22.45	22.5	22.47		
5MHz 16QAM	RB1#0	22.51	22.46	22.48	18	38.45
	RB1#13	22.39	22.38	22.49		
	RB1#24	22.38	22.5	22.28		
	RB15#0	21.39	21.42	21.49		
	RB15#10	21.44	21.47	21.41		
	RB25#0	21.47	21.47	21.45		
10MHz QPSK	RB1#0	23.64	23.44	23.56	19.33	38.45
	RB1#25	23.64	23.56	23.84		
	RB1#49	23.65	23.53	23.65		
	RB25#0	22.54	22.61	22.59		

	RB25#25	22.48	22.62	22.57		
	RB50#0	22.53	22.57	22.53		
10MHz 16QAM	RB1#0	22.47	22.53	22.41	18.34	38.45
	RB1#25	22.54	22.57	22.85		
	RB1#49	22.58	22.4	22.67		
	RB25#0	21.56	21.57	21.5		
	RB25#25	21.46	21.53	21.52		
	RB50#0	21.53	21.52	21.51		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15**Result:****Pass****Peak-to-average Ratio(PAR)**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	5.04	4.67	4.7	13
	RB50#0	5.33	5.22	5.39	13
10MHz 16QAM	RB1#0	5.94	5.68	5.48	13
	RB50#0	6.17	6.12	6.29	13

Result:**Pass****Occupied Bandwidth**

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.102	1.096	1.102	1.296	1.302	1.326
1.4MHz 16QAM	1.096	1.096	1.096	1.290	1.326	1.296
3MHz QPSK	2.683	2.683	2.695	2.916	2.868	2.868
3MHz 16QAM	2.683	2.683	2.683	2.868	2.892	2.868
5MHz QPSK	4.511	4.511	4.491	4.940	4.920	4.920
5MHz 16QAM	4.491	4.511	4.511	4.920	4.940	4.980
10MHz QPSK	8.942	8.942	8.942	9.680	9.680	9.640
10MHz 16QAM	8.942	8.942	8.942	9.600	9.560	9.640

Note: The test plots please refer to the Plots of Occupied Bandwidth

Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
----------------	--

Out of band emission, Band Edge

Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
----------------	---

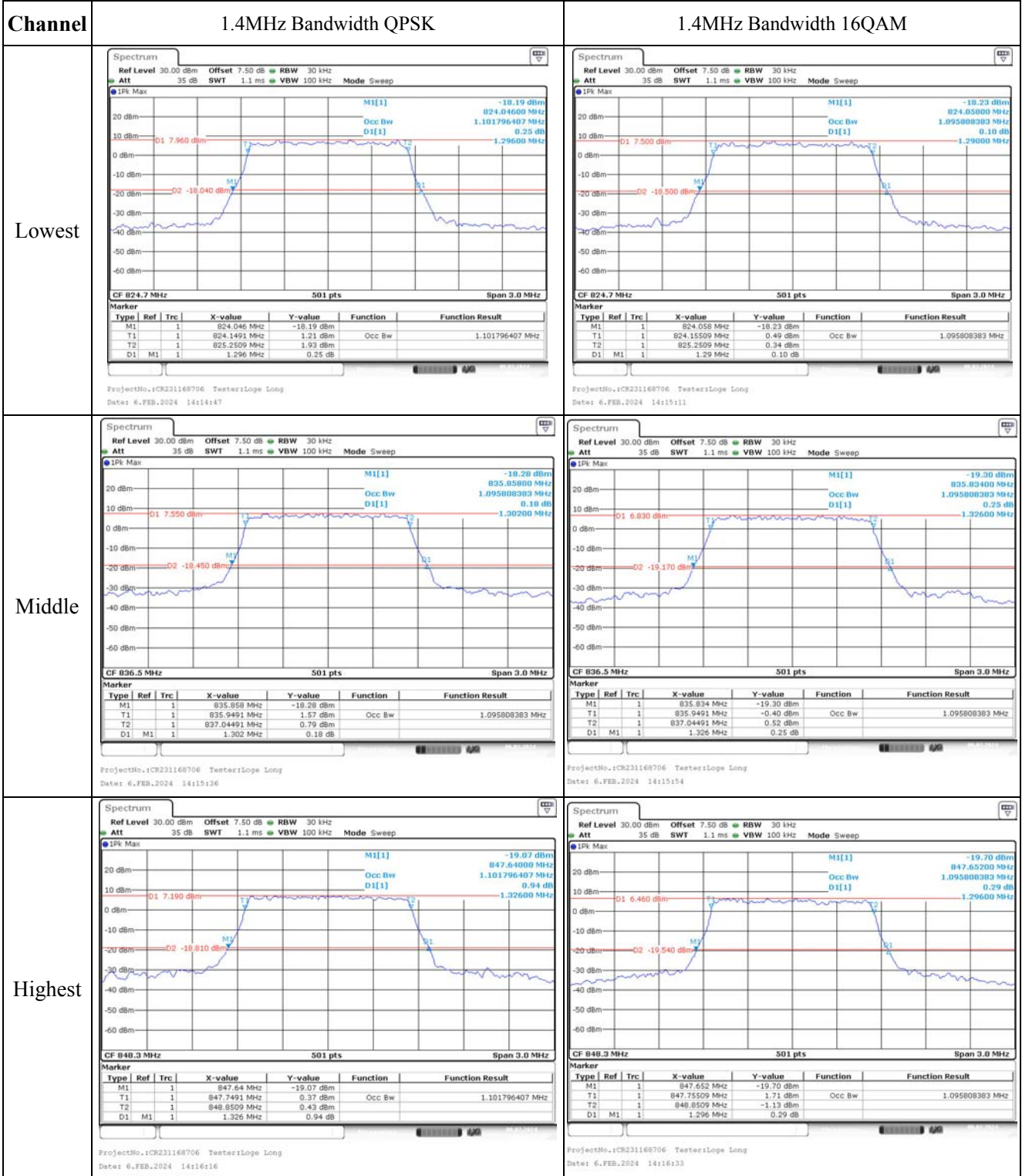
Frequency Stability

Test Modulation:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (Vbc)	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.6	-7.21	-0.009	2.5
	-20	3.6	9.12	0.011	2.5
	-10	3.6	8.51	0.010	2.5
	0	3.6	-7.15	-0.009	2.5
	10	3.6	-5.29	-0.006	2.5
	20	3.6	-4.48	-0.005	2.5
	30	3.6	-5.81	-0.007	2.5
	40	3.6	5.59	0.007	2.5
	50	3.6	6.87	0.008	2.5
Frequency Stability vs. Voltage	20	3.45	9.94	0.012	2.5
	20	4.12	9.99	0.012	2.5
				Result:	Pass

Test Modulation:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (Vbc)	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.6	-9.4	-0.011	2.5
	-20	3.6	-6.7	-0.008	2.5
	-10	3.6	9.8	0.012	2.5
	0	3.6	-7.6	-0.009	2.5
	10	3.6	-9.9	-0.012	2.5
	20	3.6	-8.7	-0.010	2.5
	30	3.6	-6.7	-0.008	2.5
	40	3.6	-8.9	-0.011	2.5
	50	3.6	5.7	0.007	2.5
Frequency Stability vs. Voltage	20	3.45	6.1	0.007	2.5
	20	4.12	7.5	0.009	2.5
				Result:	Pass

Test Plots(Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

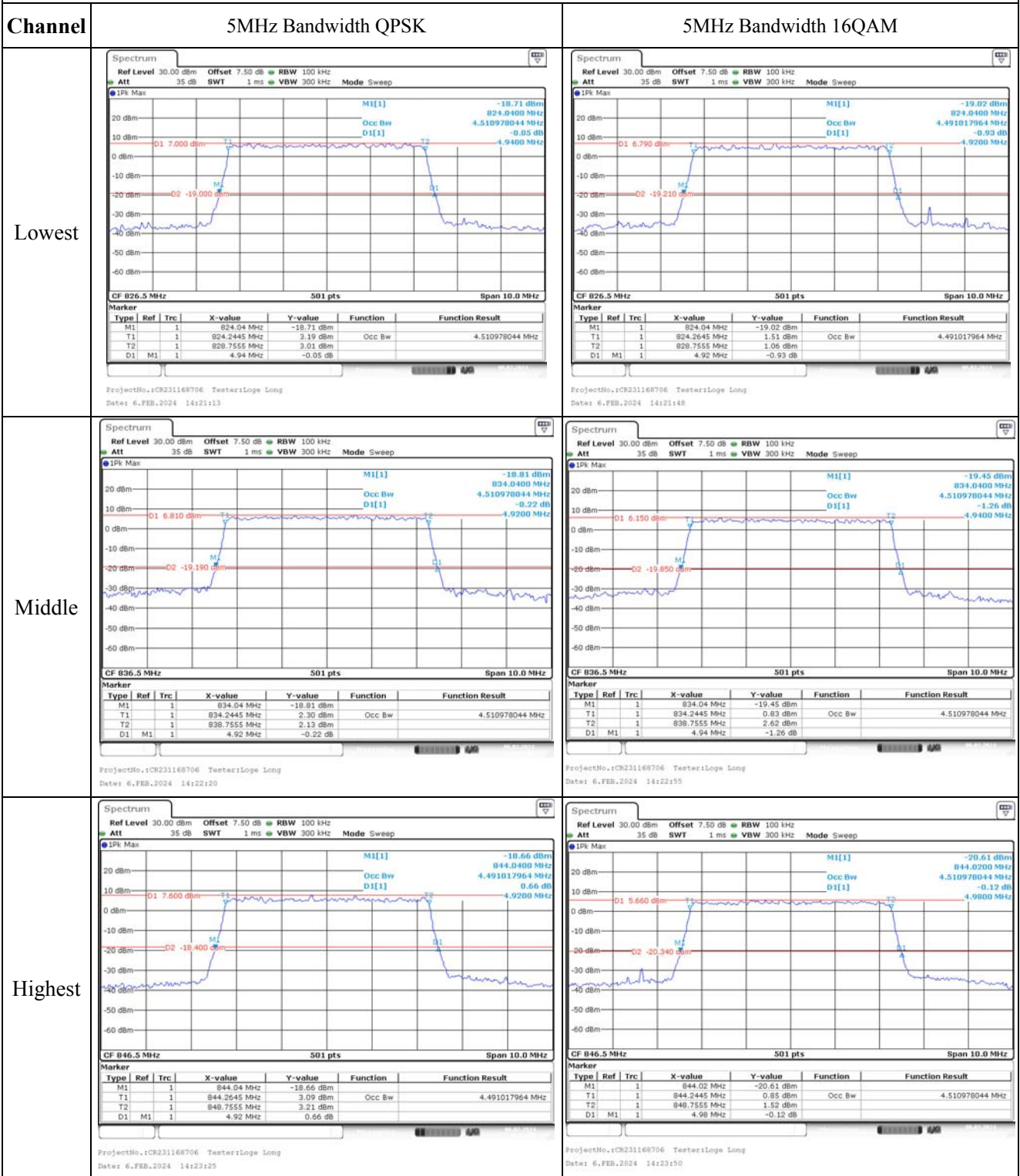
Occupied Bandwidth



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM																																																																						
Lowest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>824.06 MHz</td> <td>-21.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>824.1587 MHz</td> <td>0.67 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>826.8413 MHz</td> <td>1.22 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.916 MHz</td> <td>-0.25 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		824.06 MHz	-21.72 dBm			T1	1		824.1587 MHz	0.67 dBm	Occ Bw	2.682634731 MHz	T2	1		826.8413 MHz	1.22 dBm			D1	M1	1	2.916 MHz	-0.25 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>824.072 MHz</td> <td>-20.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>824.1587 MHz</td> <td>-0.89 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>826.8413 MHz</td> <td>-0.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.868 MHz</td> <td>-2.57 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		824.072 MHz	-20.57 dBm			T1	1		824.1587 MHz	-0.89 dBm	Occ Bw	2.682634731 MHz	T2	1		826.8413 MHz	-0.62 dBm			D1	M1	1	2.868 MHz	-2.57 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		824.06 MHz	-21.72 dBm																																																																				
T1	1		824.1587 MHz	0.67 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		826.8413 MHz	1.22 dBm																																																																				
D1	M1	1	2.916 MHz	-0.25 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		824.072 MHz	-20.57 dBm																																																																				
T1	1		824.1587 MHz	-0.89 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		826.8413 MHz	-0.62 dBm																																																																				
D1	M1	1	2.868 MHz	-2.57 dB																																																																				
Middle	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>835.072 MHz</td> <td>-19.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>835.1587 MHz</td> <td>-0.18 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>837.8413 MHz</td> <td>0.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.868 MHz</td> <td>-0.95 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		835.072 MHz	-19.87 dBm			T1	1		835.1587 MHz	-0.18 dBm	Occ Bw	2.682634731 MHz	T2	1		837.8413 MHz	0.98 dBm			D1	M1	1	2.868 MHz	-0.95 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>835.06 MHz</td> <td>-22.28 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>835.1587 MHz</td> <td>-1.30 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>837.8413 MHz</td> <td>-0.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.892 MHz</td> <td>0.09 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		835.06 MHz	-22.28 dBm			T1	1		835.1587 MHz	-1.30 dBm	Occ Bw	2.682634731 MHz	T2	1		837.8413 MHz	-0.98 dBm			D1	M1	1	2.892 MHz	0.09 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		835.072 MHz	-19.87 dBm																																																																				
T1	1		835.1587 MHz	-0.18 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		837.8413 MHz	0.98 dBm																																																																				
D1	M1	1	2.868 MHz	-0.95 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		835.06 MHz	-22.28 dBm																																																																				
T1	1		835.1587 MHz	-1.30 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		837.8413 MHz	-0.98 dBm																																																																				
D1	M1	1	2.892 MHz	0.09 dB																																																																				
Highest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>846.06 MHz</td> <td>-21.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>846.1587 MHz</td> <td>-0.21 dBm</td> <td>Occ Bw</td> <td>2.694610778 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>848.8533 MHz</td> <td>0.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.868 MHz</td> <td>1.61 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		846.06 MHz	-21.71 dBm			T1	1		846.1587 MHz	-0.21 dBm	Occ Bw	2.694610778 MHz	T2	1		848.8533 MHz	0.75 dBm			D1	M1	1	2.868 MHz	1.61 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>846.06 MHz</td> <td>-21.97 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>846.1587 MHz</td> <td>0.25 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>848.8413 MHz</td> <td>-1.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.868 MHz</td> <td>0.49 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		846.06 MHz	-21.97 dBm			T1	1		846.1587 MHz	0.25 dBm	Occ Bw	2.682634731 MHz	T2	1		848.8413 MHz	-1.07 dBm			D1	M1	1	2.868 MHz	0.49 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		846.06 MHz	-21.71 dBm																																																																				
T1	1		846.1587 MHz	-0.21 dBm	Occ Bw	2.694610778 MHz																																																																		
T2	1		848.8533 MHz	0.75 dBm																																																																				
D1	M1	1	2.868 MHz	1.61 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		846.06 MHz	-21.97 dBm																																																																				
T1	1		846.1587 MHz	0.25 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		848.8413 MHz	-1.07 dBm																																																																				
D1	M1	1	2.868 MHz	0.49 dB																																																																				

Occupied Bandwidth



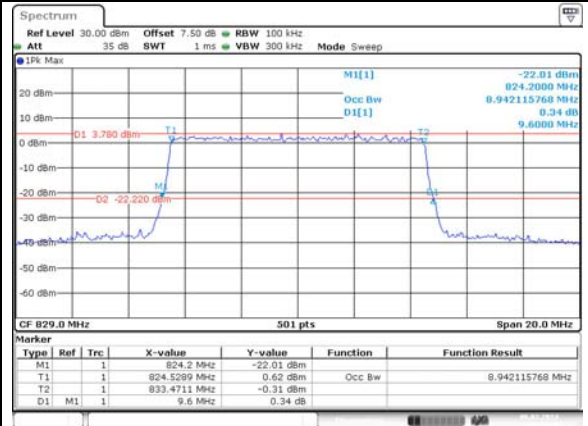
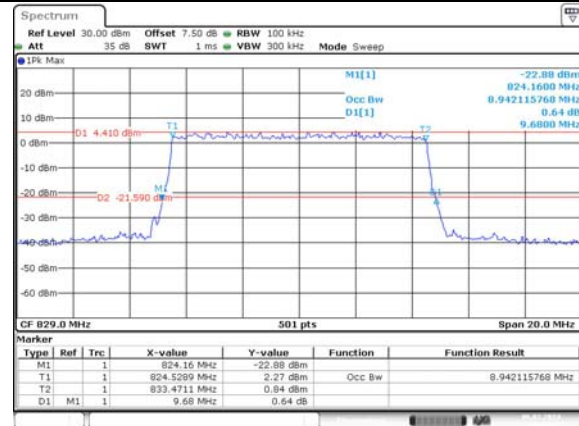
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

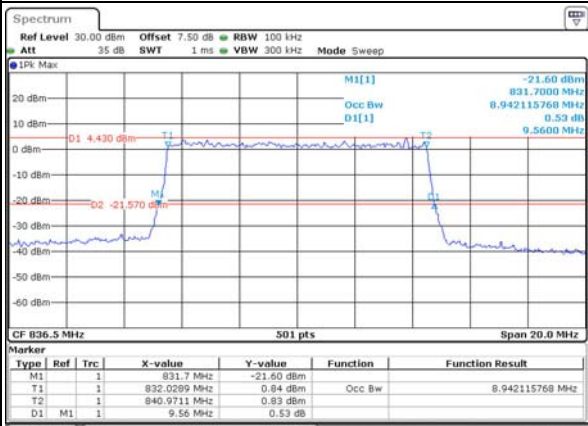
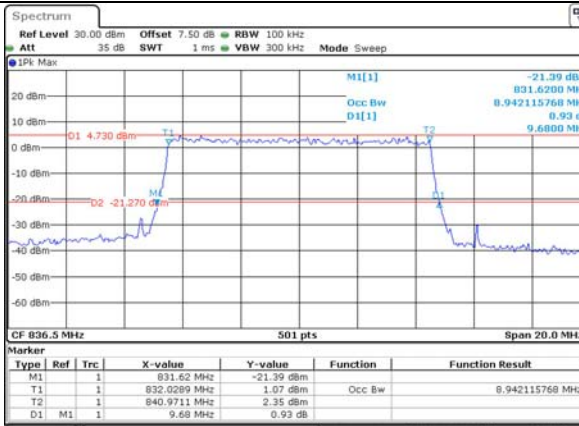
Lowest



ProjectNo.:CR231168706 Tester:Loge Long
Date: 6.FEB.2024 14:24:57

ProjectNo.:CR231168706 Tester:Loge Long
Date: 6.FEB.2024 14:25:30

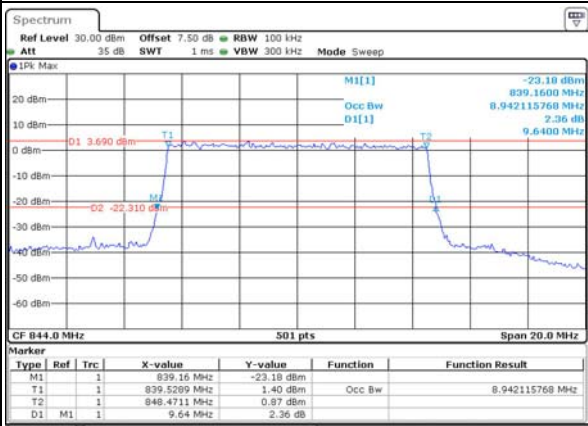
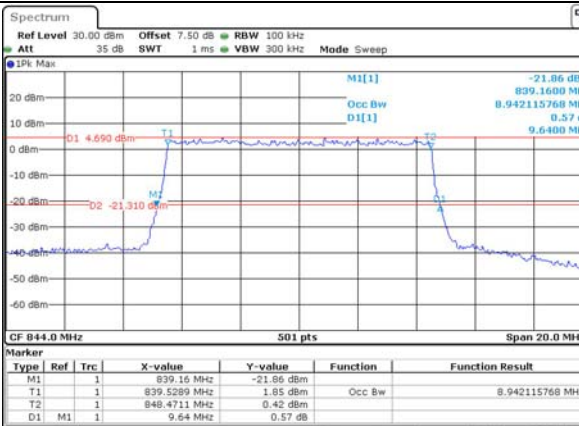
Middle



ProjectNo.:CR231168706 Tester:Loge Long
Date: 6.FEB.2024 14:26:01

ProjectNo.:CR231168706 Tester:Loge Long
Date: 6.FEB.2024 14:26:37

Highest

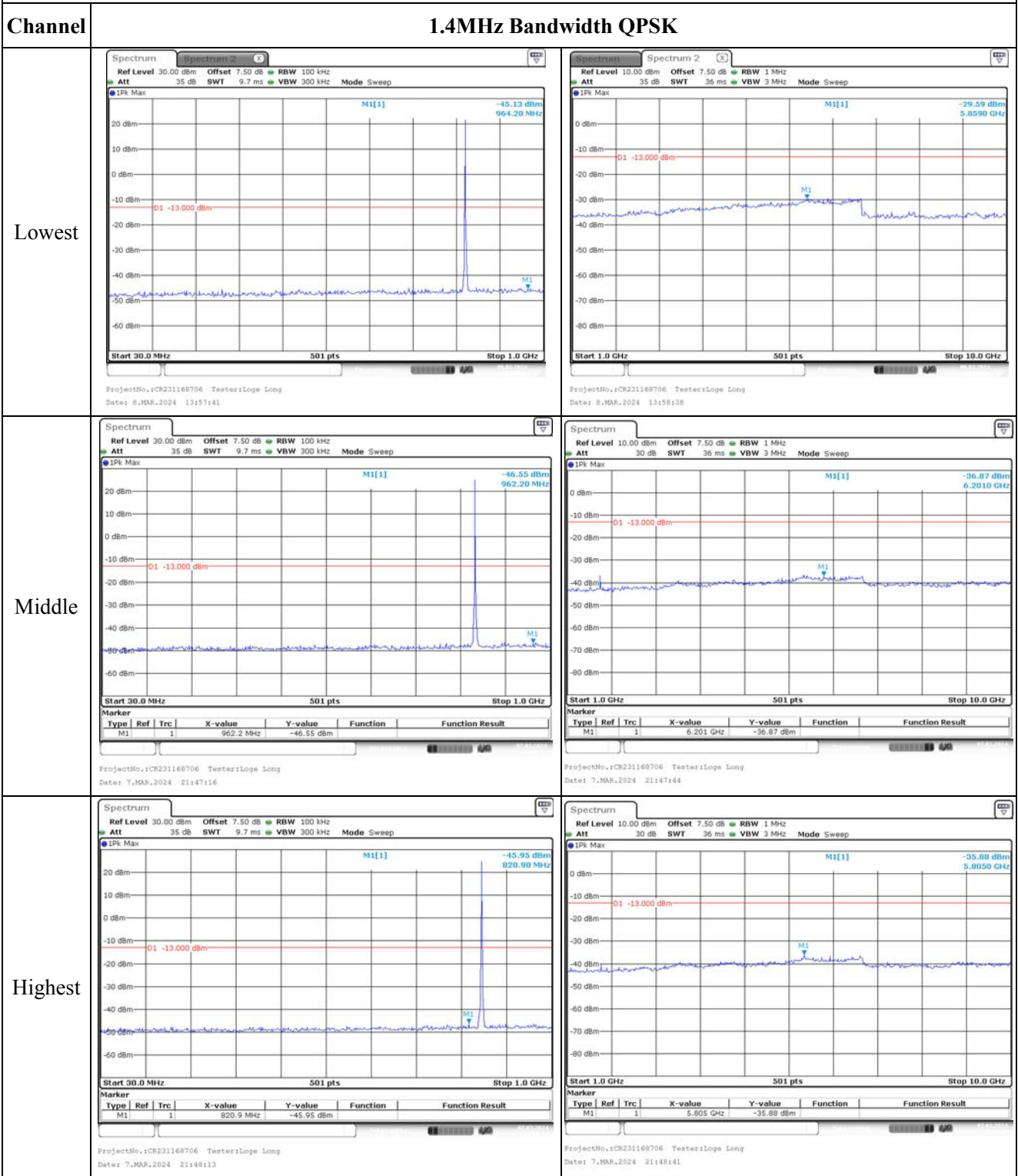


ProjectNo.:CR231168706 Tester:Loge Long
Date: 6.FEB.2024 14:27:08

ProjectNo.:CR231168706 Tester:Loge Long
Date: 6.FEB.2024 14:27:44

1RB:

Spurious Emissions at Antenna Terminal

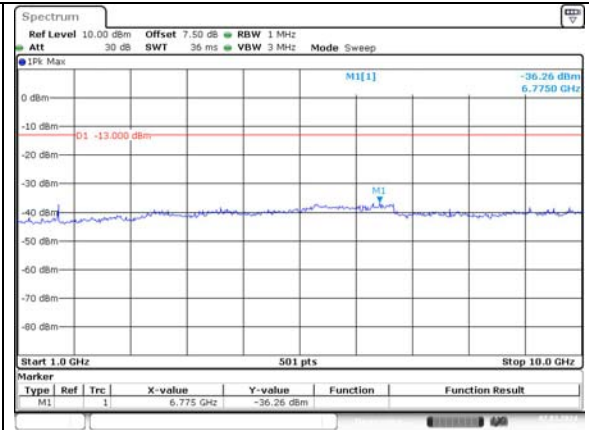
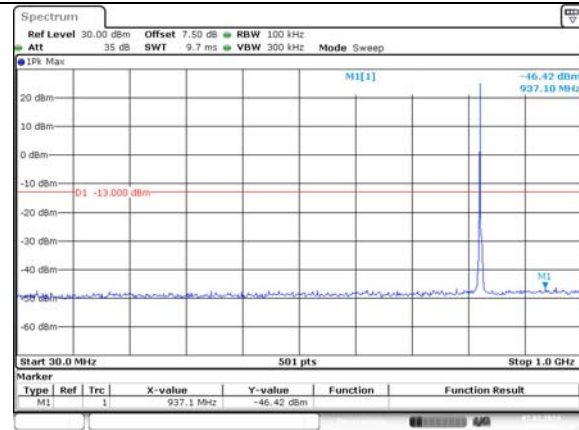


Spurious Emissions at Antenna Terminal

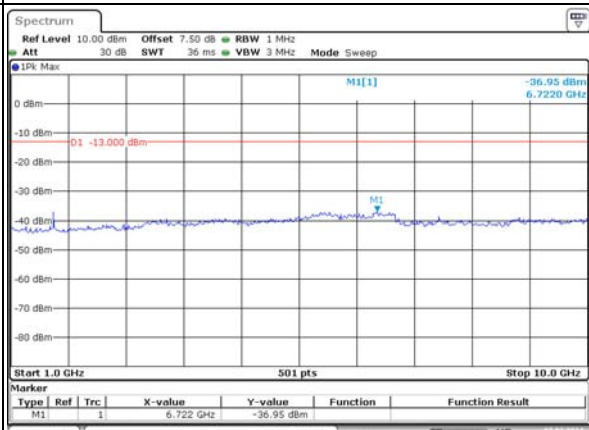
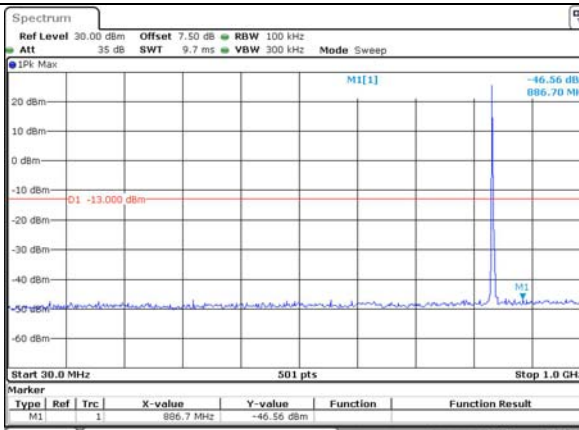
Channel

3MHz Bandwidth QPSK

Lowest



Middle



Highest

