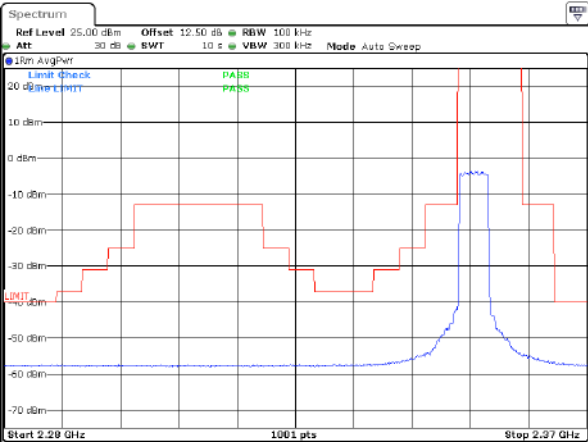
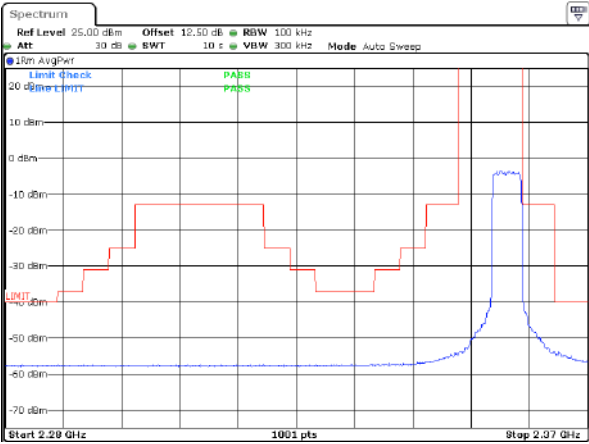
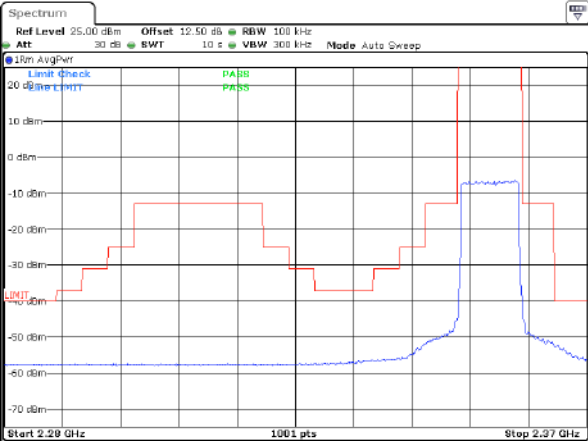


Out of band emission, Band Edge

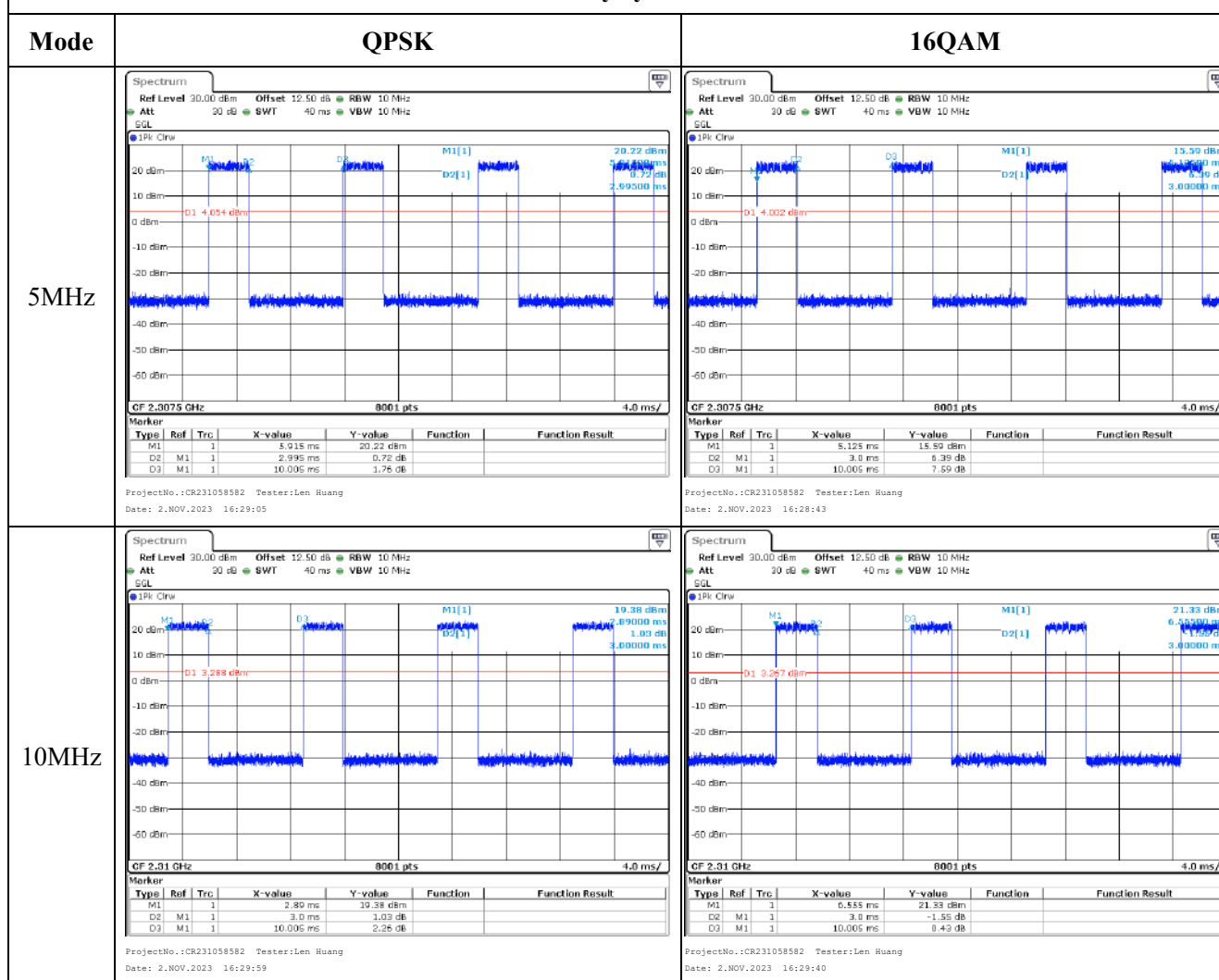
Mode	Lowest	Highest
16QAM 5MHz	 ProjectNo.:CR231058582 Tester:Len Ruang Date: 2.NOV.2023 16:06:49	 ProjectNo.:CR231058582 Tester:Len Ruang Date: 2.NOV.2023 16:08:07

Out of band emission, Band Edge

Mode	Middle	/
16QAM 10MHz	 ProjectNo.:CR231058582 Tester:Len Ruang Date: 2.NOV.2023 16:09:28	/

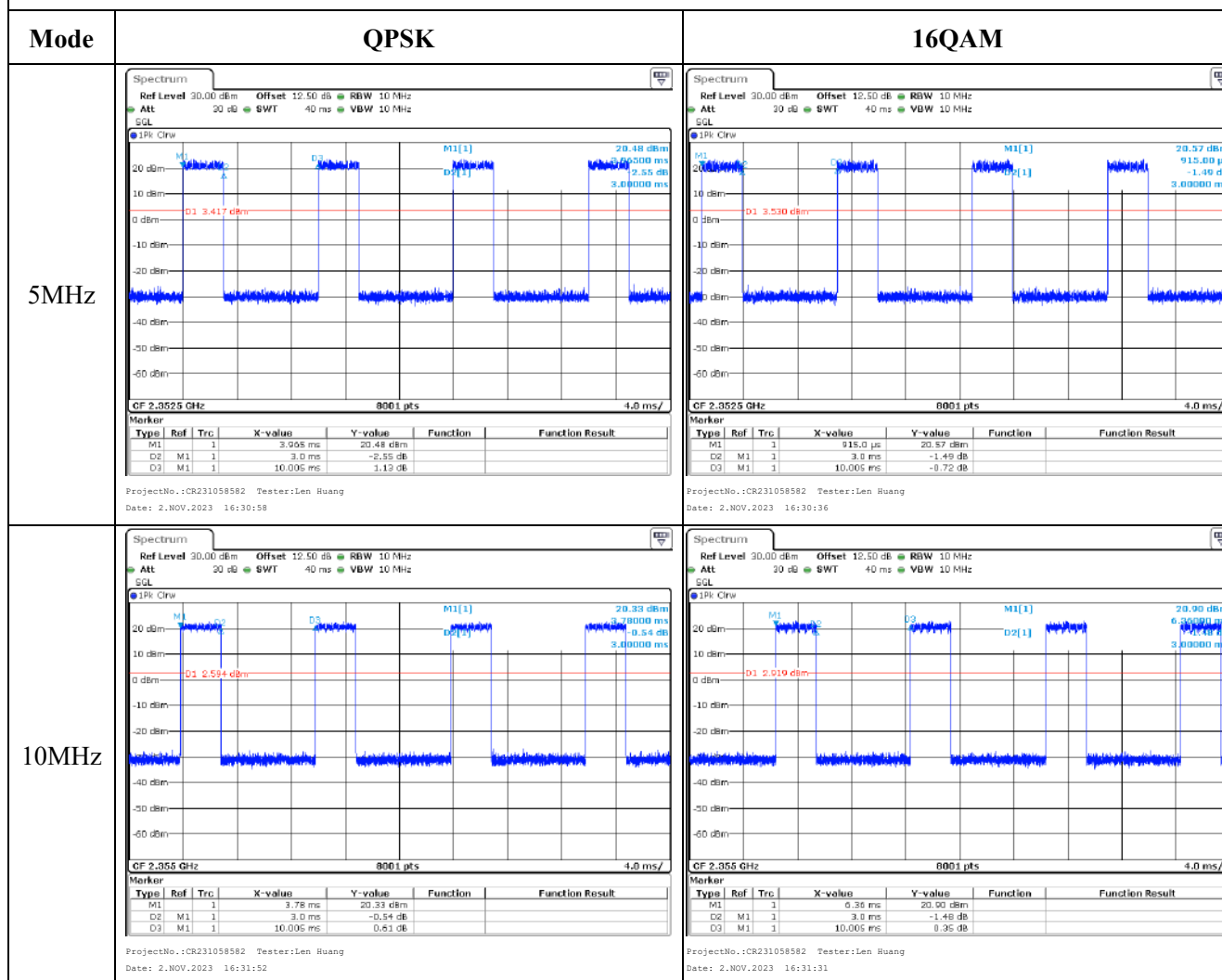
2305-2315 MHz:

Duty cycle



2350-2360 MHz:

Duty cycle



4.15 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	2BZE-3	Test Date:	2023/11/2-2023/11/9
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5-26.5	Relative Humidity: (%)	46-52	ATM Pressure: (kPa)	101.1-102
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Minl-Circuits	Power Splitter	ZFRSC-183-S+	S F448201619	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	2023/9/28	2024/9/27
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)
5MHz	2537.5	2595	2652.5
10MHz	2540	2595	2650
15MHz	2542.5	2595	2647.5
20MHz	2545	2595	2645

Test Data:

FCC§2.1046;§ 27.50(h)(2)						
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		
5MHz QPSK	RB1#0	22.7	22.6	23	22.6	33
	RB1#13	22.72	22.64	22.94		
	RB1#24	22.68	22.52	22.91		
	RB15#0	21.89	21.71	21.79		
	RB15#10	21.83	21.76	21.78		
	RB25#0	21.83	21.7	21.83		
5MHz 16QAM	RB1#0	22.5	21.55	21.6	22.1	33
	RB1#13	22.34	21.61	21.64		
	RB1#24	22.35	21.54	21.8		
	RB15#0	20.96	20.9	20.95		
	RB15#10	20.9	20.94	21		
	RB25#0	20.93	20.54	21.04		
10MHz QPSK	RB1#0	22.95	22.49	22.7	22.55	33
	RB1#25	22.84	22.5	22.64		
	RB1#49	22.74	22.52	22.57		
	RB25#0	21.7	21.52	21.69		
	RB25#25	21.79	21.68	21.71		
	RB50#0	21.77	21.58	21.83		
10MHz 16QAM	RB1#0	22	22.45	21.61	22.14	33
	RB1#25	22.18	22.54	21.67		
	RB1#49	22.24	22.45	21.78		
	RB25#0	21	20.92	20.78		
	RB25#25	20.86	20.87	20.87		
	RB50#0	20.97	20.69	20.93		
15MHz QPSK	RB1#0	22.87	22.39	22.87	22.5	33
	RB1#38	22.83	22.41	22.9		
	RB1#74	22.64	22.34	22.77		
	RB36#0	21.81	21.57	21.78		
	RB36#39	21.6	21.67	21.69		
	RB75#0	21.78	21.67	21.83		
15MHz 16QAM	RB1#0	22.1	21.1	21.54	21.75	33
	RB1#38	22.15	21.21	21.65		
	RB1#74	21.93	21.14	21.67		
	RB36#0	20.81	20.9	20.81		
	RB36#39	20.8	20.95	20.84		
	RB75#0	20.95	20.78	20.87		
20MHz QPSK	RB1#0	23.02	22.64	22.82	22.62	33

	RB1#50	22.96	22.7	22.81		
	RB1#99	22.8	22.68	22.82		
	RB50#0	21.81	21.64	21.81		
	RB50#50	21.62	21.76	21.77		
	RB100#0	21.67	21.61	21.66		
	RB1#0	22.57	22.02	21.58		
20MHz 16QAM	RB1#50	22.34	22.05	21.58	22.17	33
	RB1#99	22.31	22.07	21.69		
	RB50#0	20.97	20.85	21.05		
	RB50#50	20.77	20.96	20.9		
	RB100#0	20.84	20.82	20.75		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(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	9.01	8.87	8.96	13
	RB100#0	9.04	9.07	9.19	13
20MHz 16QAM	RB1#0	9.48	9.30	9.83	13
	RB100#0	9.68	9.83	9.91	13
Result:					Pass

FCC §2.1049, §27.53: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
5MHz QPSK	4.511	4.511	4.511	5.140	4.980	5.180
5MHz 16QAM	4.511	4.511	4.491	5.040	5.020	5.220
10MHz QPSK	8.942	8.982	8.942	9.800	9.720	9.760
10MHz 16QAM	8.942	8.942	8.942	9.840	9.760	9.680
15MHz QPSK	13.473	13.533	13.473	15.060	15.360	15.360
15MHz 16QAM	13.593	13.533	13.533	15.060	15.600	14.940
20MHz QPSK	17.964	17.964	17.964	19.520	19.440	19.440
20MHz 16QAM	17.964	17.964	17.964	19.680	19.600	20.080

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

FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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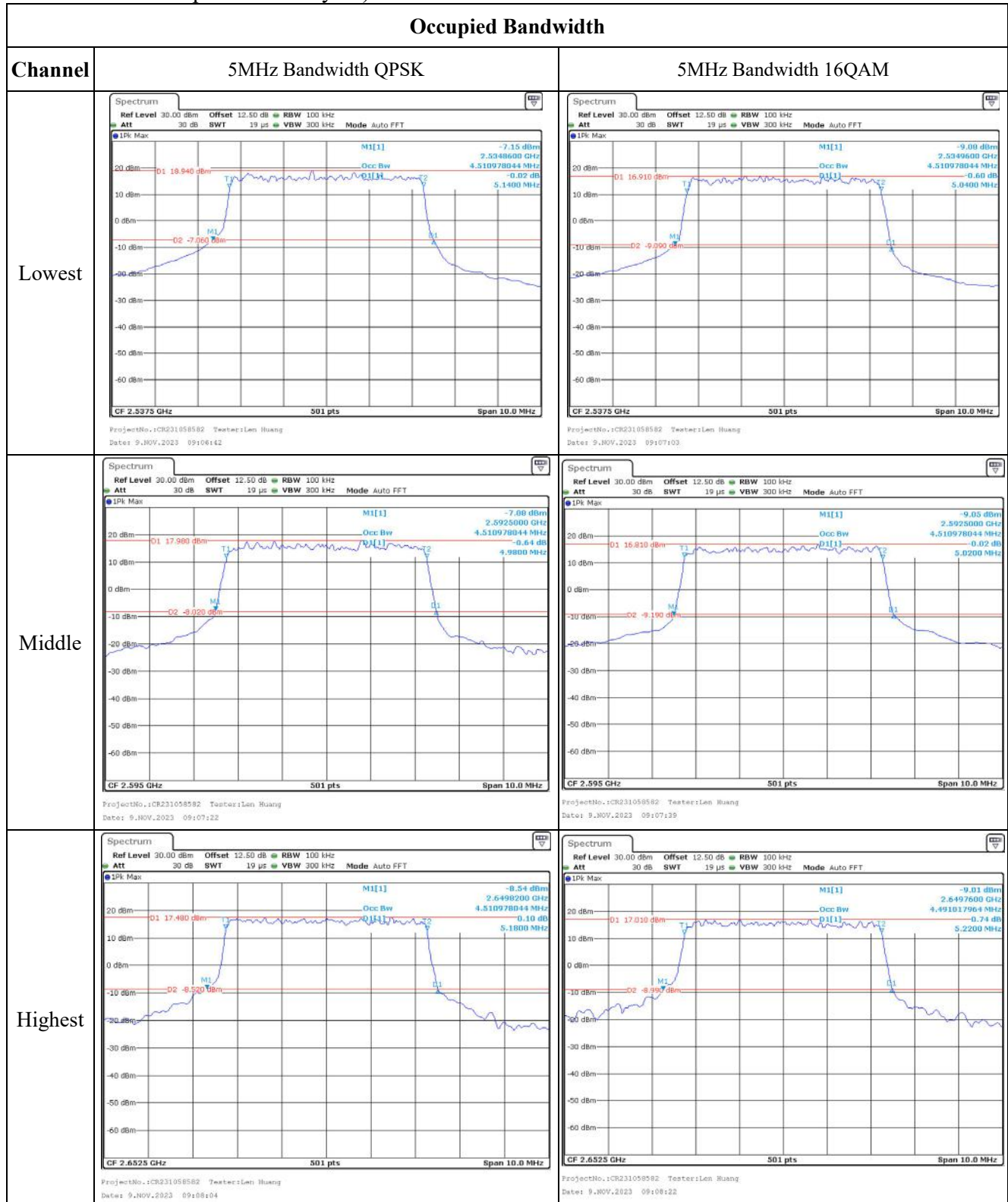
FCC §2.1051, § 27.53:Out of band emission, Band Edge

Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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FCC §2.1055, §27.54: 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	3.85	2535.231	2535.00	2654.912	2655
	-20	3.85	2535.285	2535.00	2654.934	2655
	-10	3.85	2535.231	2535.00	2654.962	2655
	0	3.85	2535.197	2535.00	2654.949	2655
	10	3.85	2535.115	2535.00	2654.926	2655
	20	3.85	2535.247	2535.00	2654.933	2655
	30	3.85	2535.121	2535.00	2654.916	2655
	40	3.85	2535.273	2535.00	2654.919	2655
	50	3.85	2535.125	2535.00	2654.992	2655
Frequency Stability vs. Voltage	20	3.27	2535.116	2535.00	2654.957	2655
	20	4.43	2535.190	2535.00	2654.944	2655
					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	3.85	2535.235	2535.00	2654.918	2655
	-20	3.85	2535.256	2535.00	2654.925	2655
	-10	3.85	2535.237	2535.00	2654.906	2655
	0	3.85	2535.198	2535.00	2654.959	2655
	10	3.85	2535.114	2535.00	2654.961	2655
	20	3.85	2535.147	2535.00	2654.960	2655
	30	3.85	2535.223	2535.00	2654.952	2655
	40	3.85	2535.165	2535.00	2654.927	2655
	50	3.85	2535.109	2535.00	2654.945	2655
Frequency Stability vs. Voltage	20	3.27	2535.134	2535.00	2654.960	2655
	20	4.43	2535.185	2535.00	2654.963	2655
					Result:	Pass

Test Plots (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):



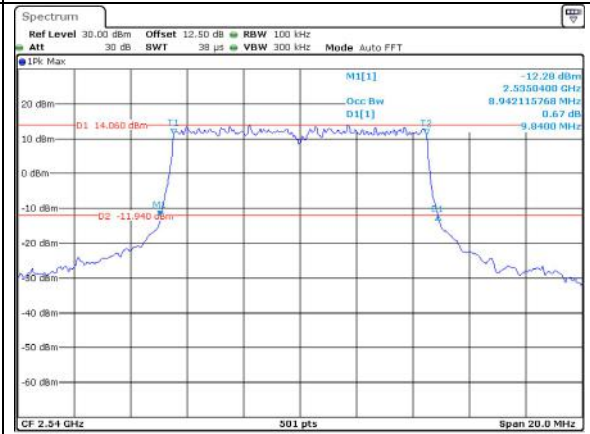
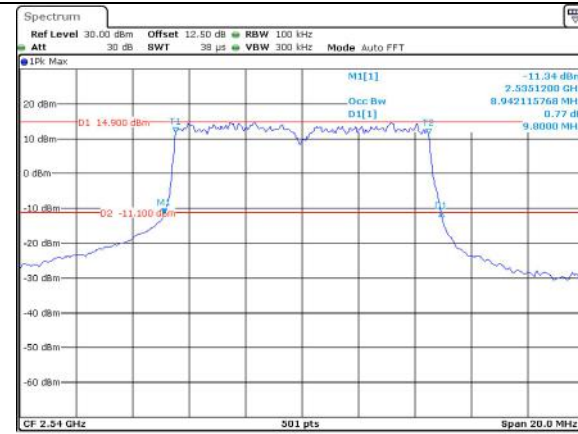
Occupied Bandwidth

Channel

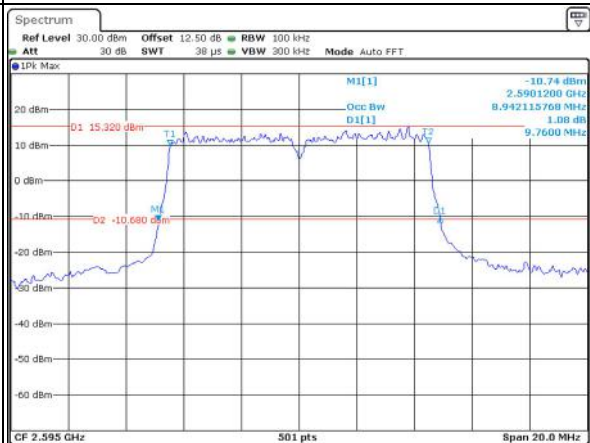
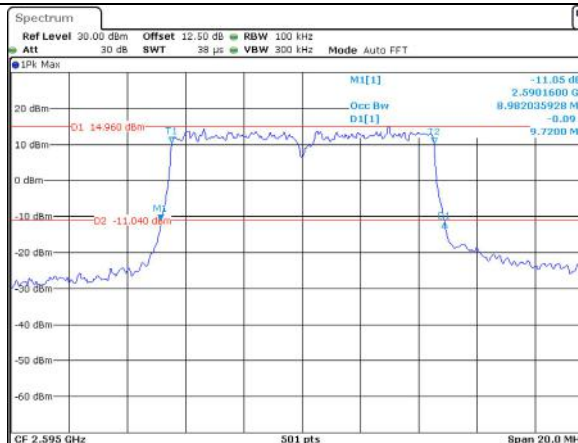
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

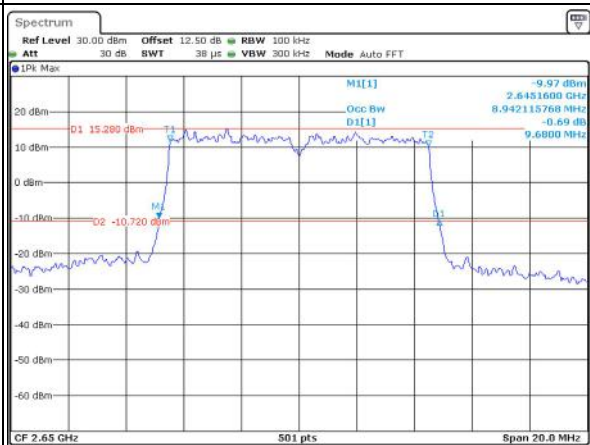
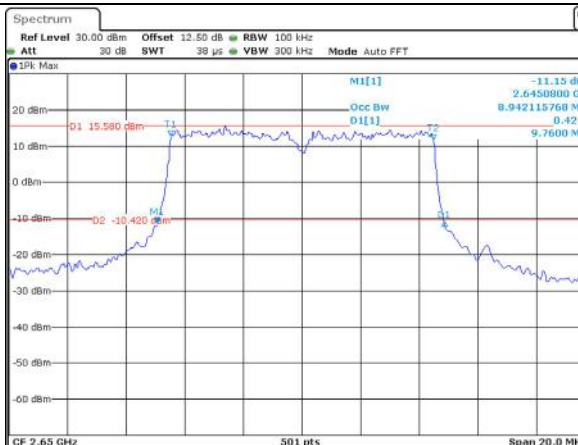
Lowest



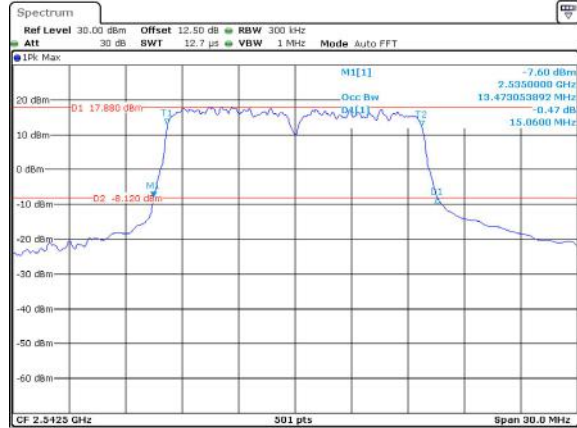
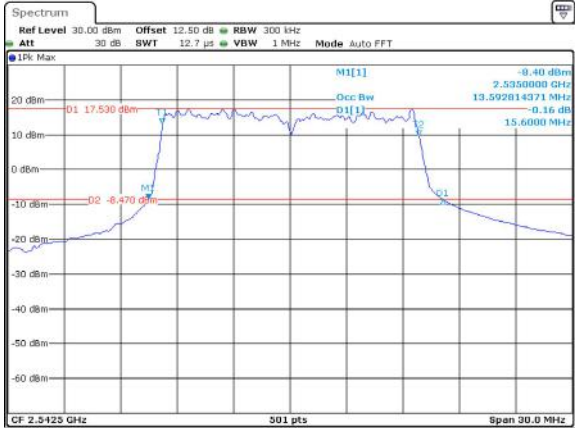
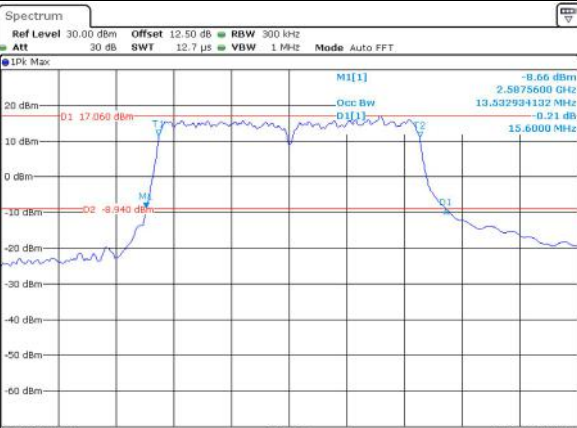
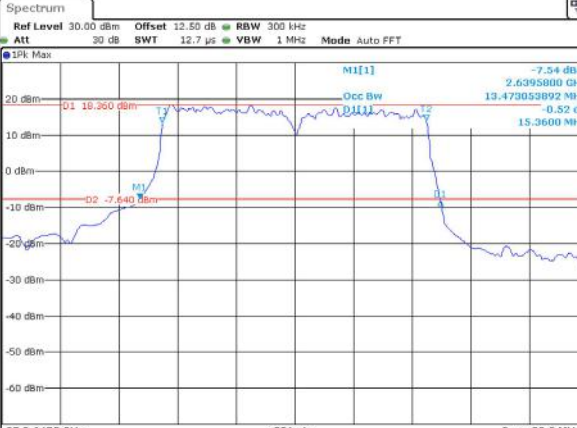
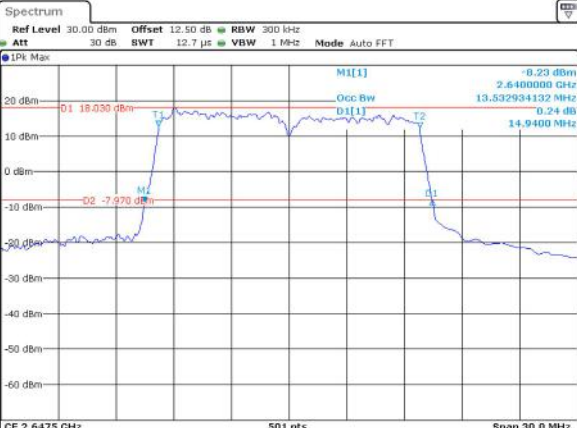
Middle



Highest



Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR231058582 Tester:Len Huang Date: 9.NOV.2023 09:16:33	 ProjectNo.:CR231058582 Tester:Len Huang Date: 9.NOV.2023 09:17:02
Middle	 ProjectNo.:CR231058582 Tester:Len Huang Date: 9.NOV.2023 09:17:32	 ProjectNo.:CR231058582 Tester:Len Huang Date: 9.NOV.2023 09:18:01
Highest	 ProjectNo.:CR231058582 Tester:Len Huang Date: 9.NOV.2023 09:18:37	 ProjectNo.:CR231058582 Tester:Len Huang Date: 9.NOV.2023 09:19:09

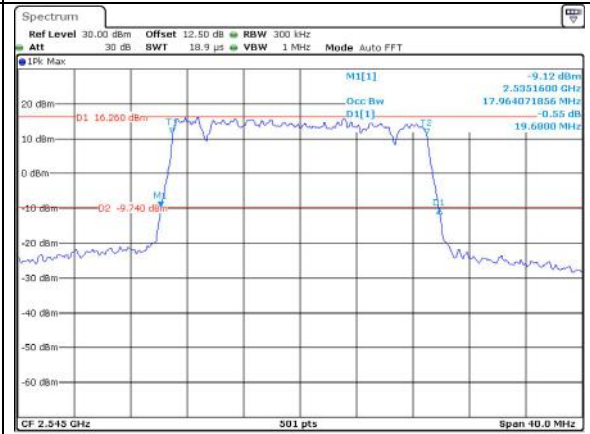
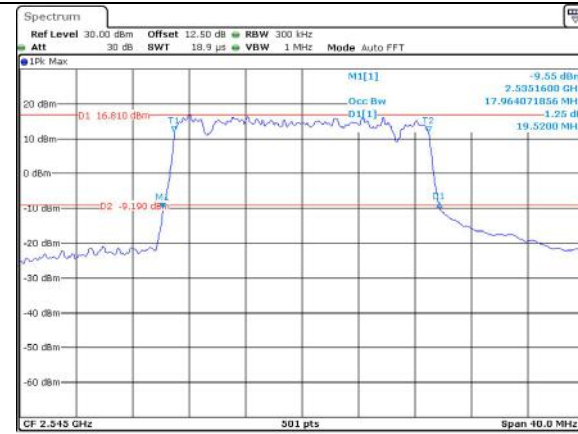
Occupied Bandwidth

Channel

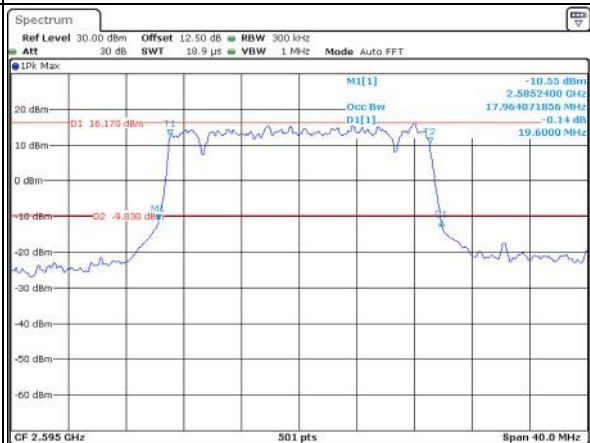
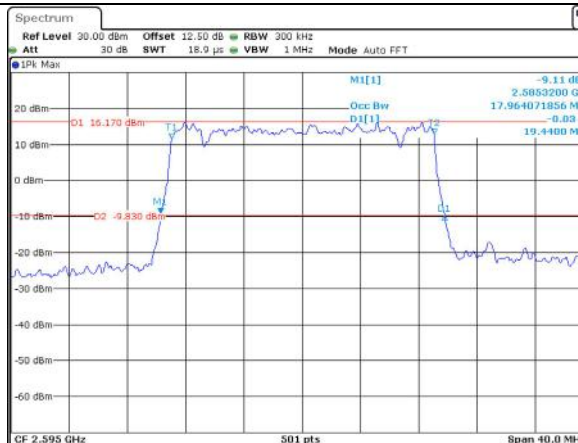
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

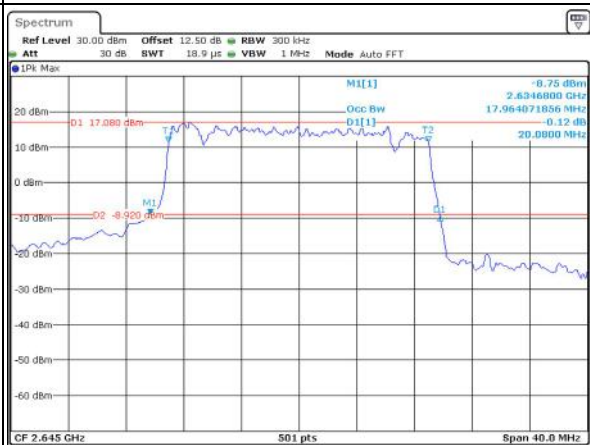
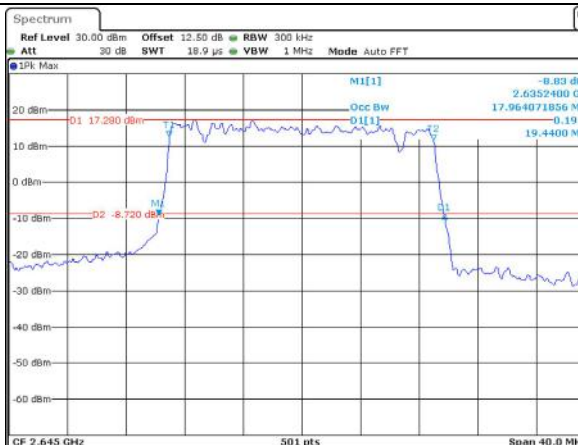
Lowest



Middle



Highest

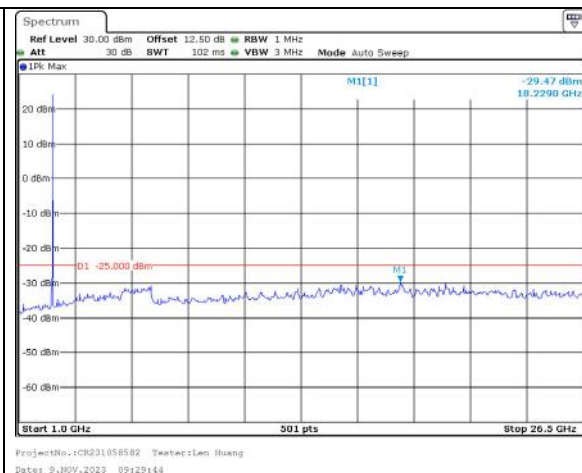
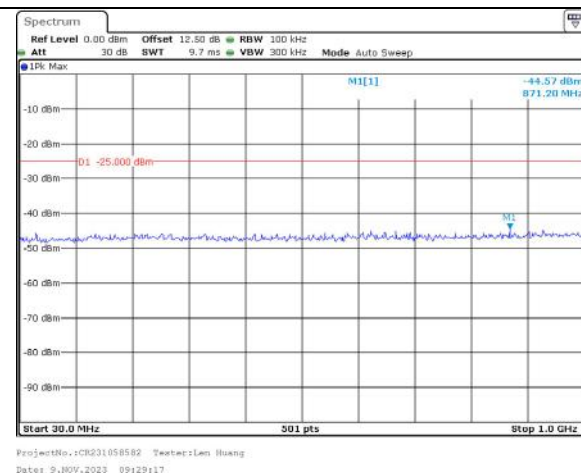


Spurious Emissions at Antenna Terminal

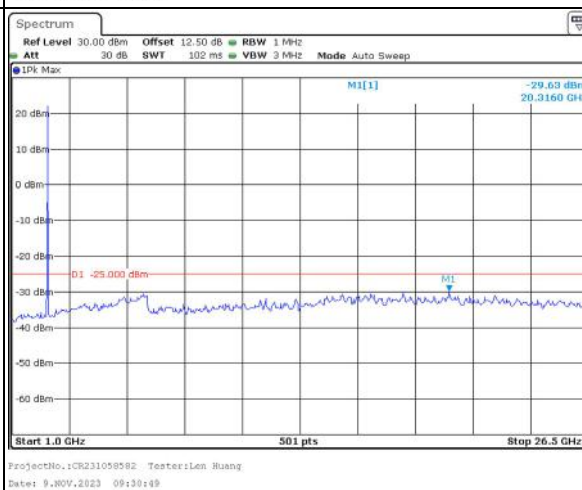
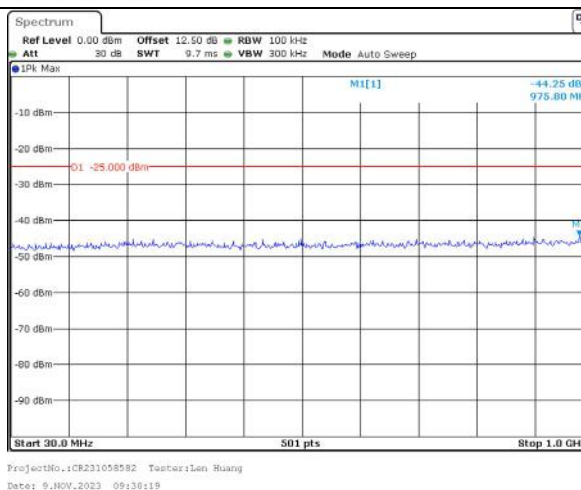
Channel

5MHz Bandwidth QPSK

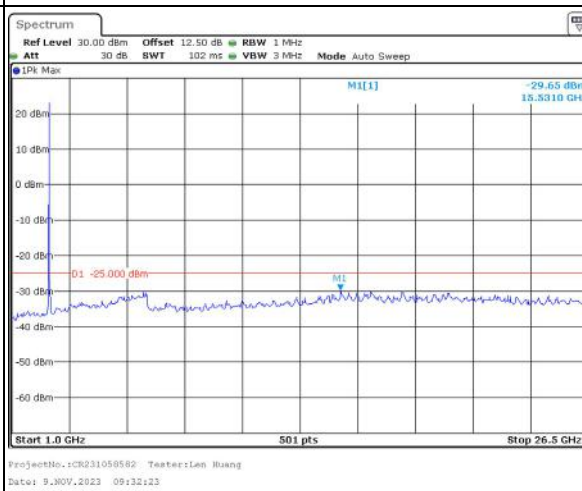
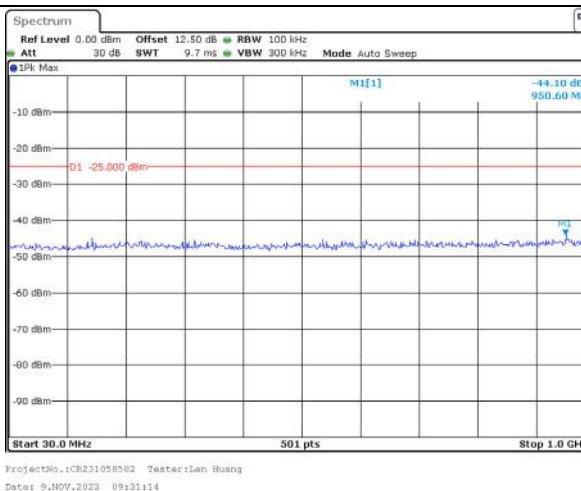
Lowest



Middle



Highest

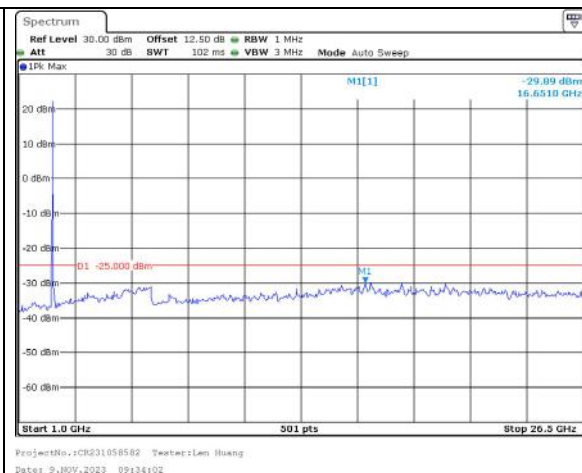
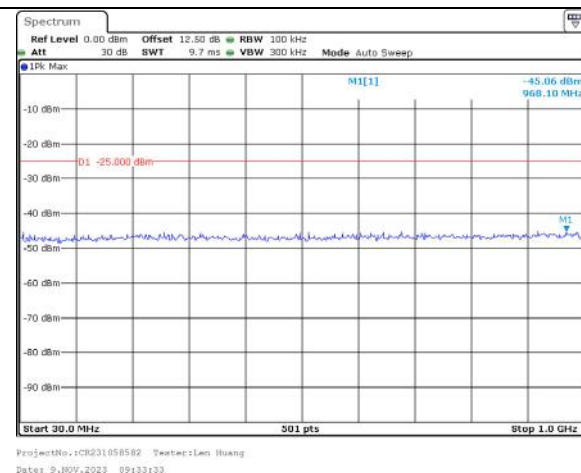


Spurious Emissions at Antenna Terminal

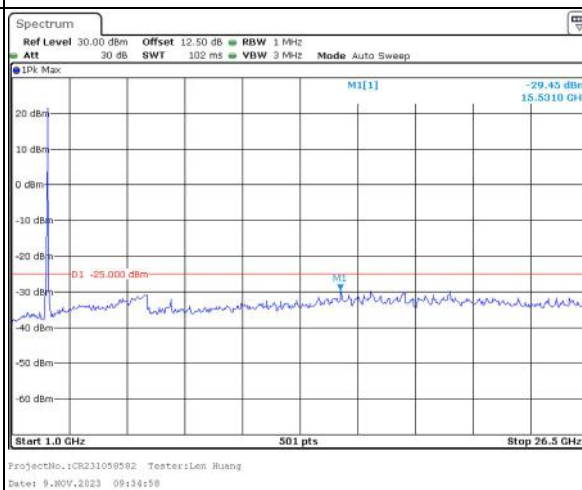
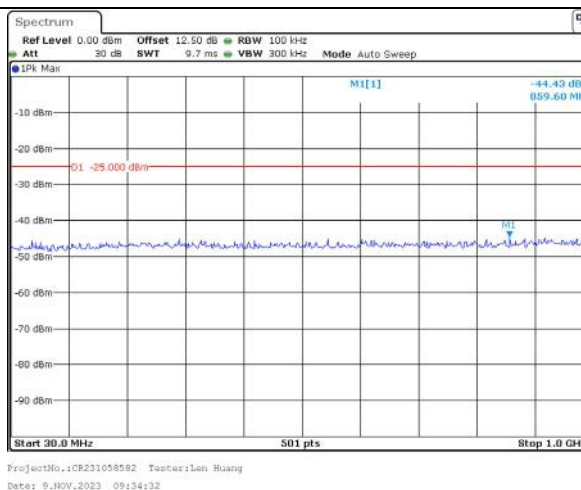
Channel

10MHz Bandwidth QPSK

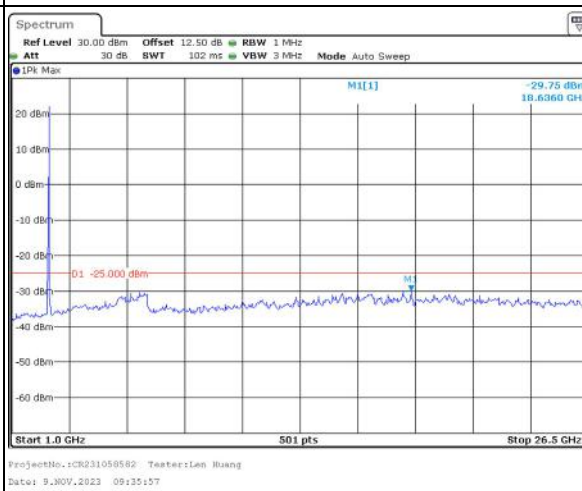
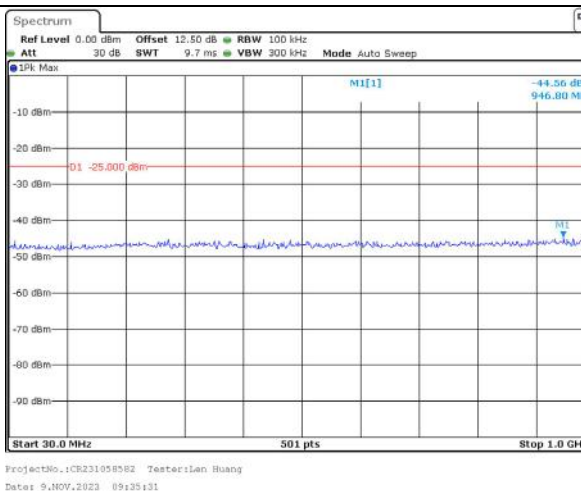
Lowest



Middle



Highest

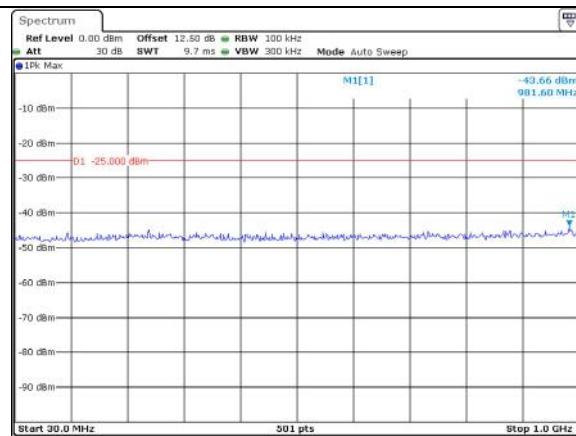


Spurious Emissions at Antenna Terminal

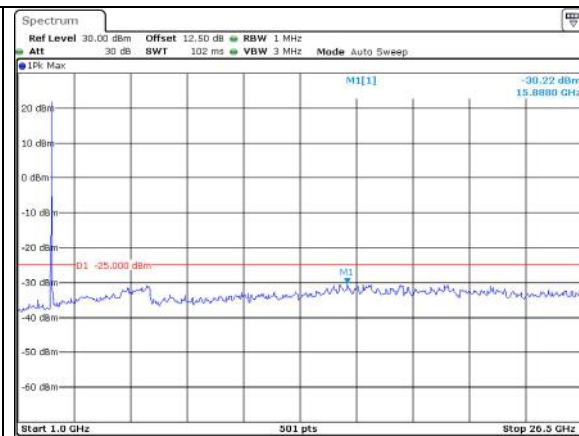
Channel

15MHz Bandwidth QPSK

Lowest

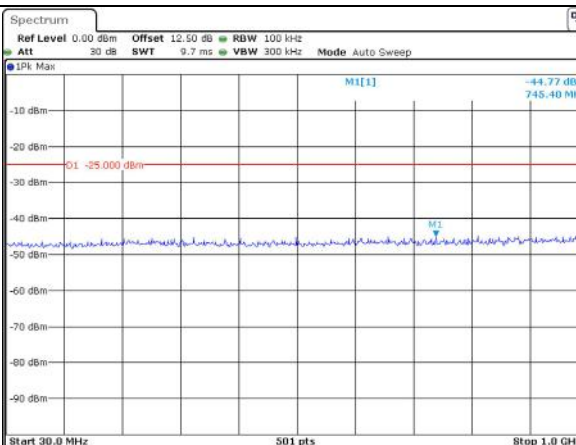


ProjectNo.:CR231058582 Tester:Len Huang
Date: 9.NOV.2023 09:40:19

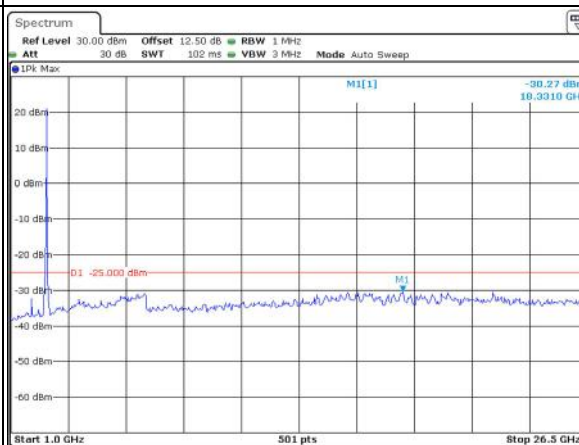


ProjectNo.:CR231058582 Tester:Len Huang
Date: 9.NOV.2023 09:40:42

Middle

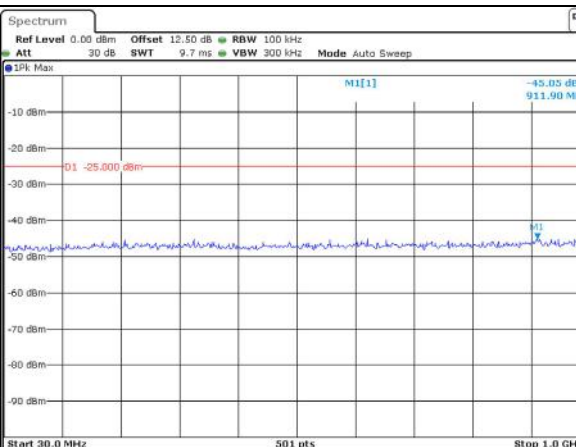


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Date: 9.NOV.2023 09:41:16

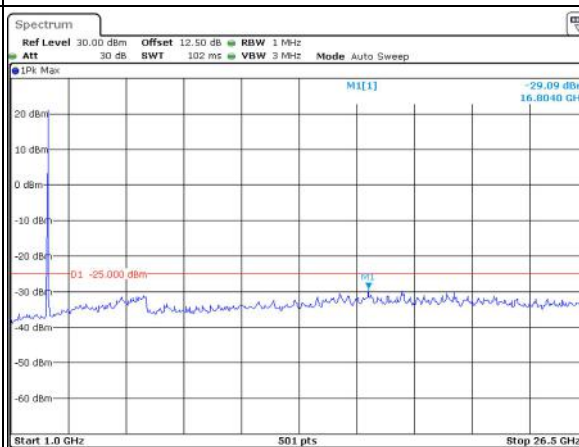


ProjectNo.:CR231058582 Tester:Len Huang
Date: 9.NOV.2023 09:41:43

Highest



ProjectNo.:CR231058582 Tester:Len Huang
Date: 9.NOV.2023 09:42:07



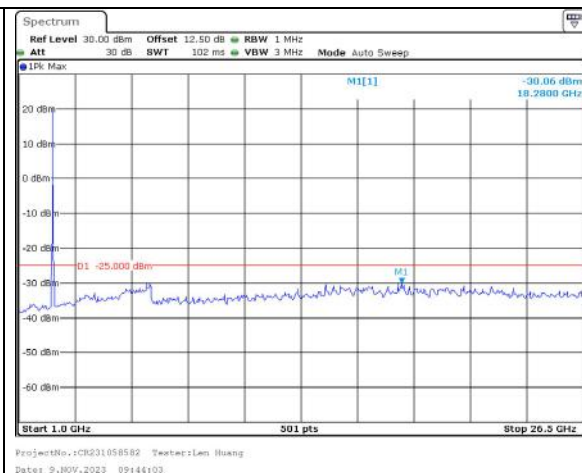
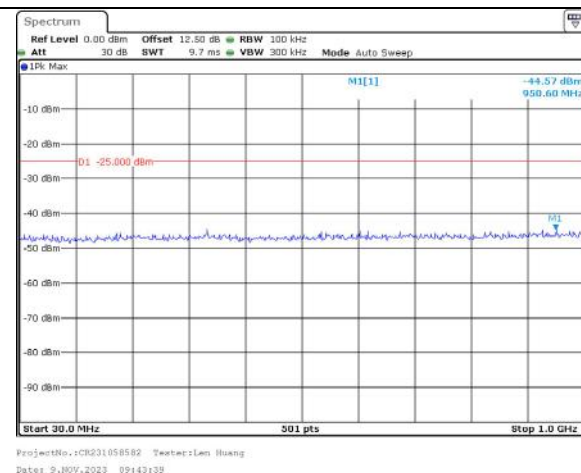
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Date: 9.NOV.2023 09:42:27

Spurious Emissions at Antenna Terminal

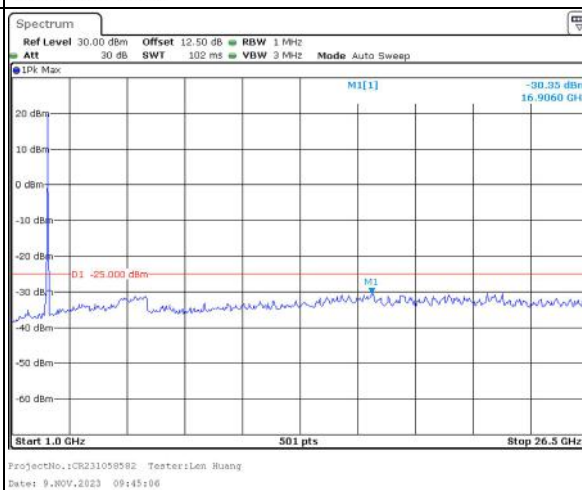
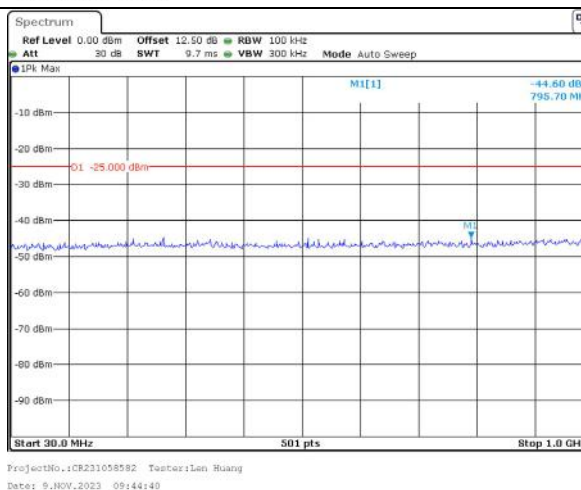
Channel

20MHz Bandwidth QPSK

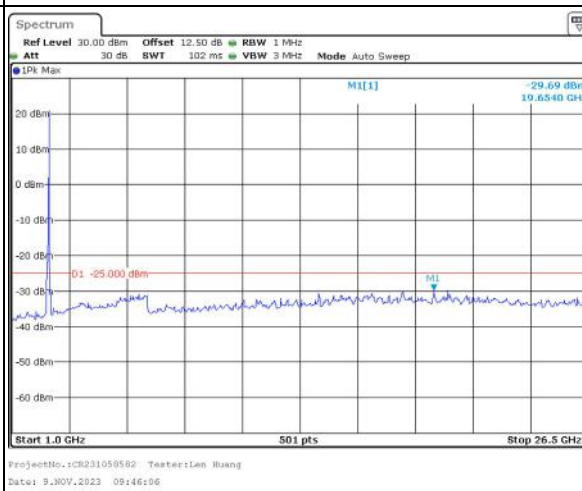
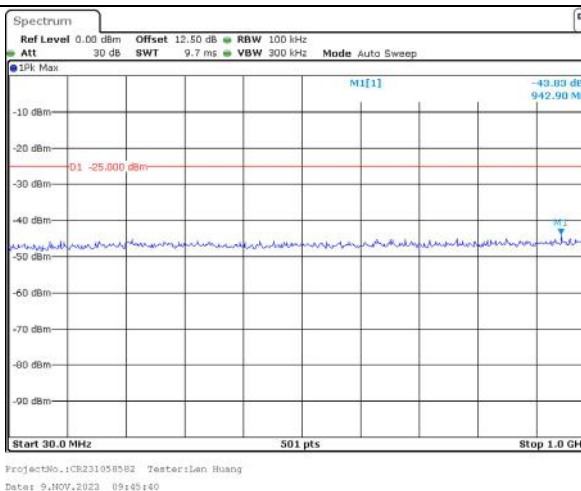
Lowest



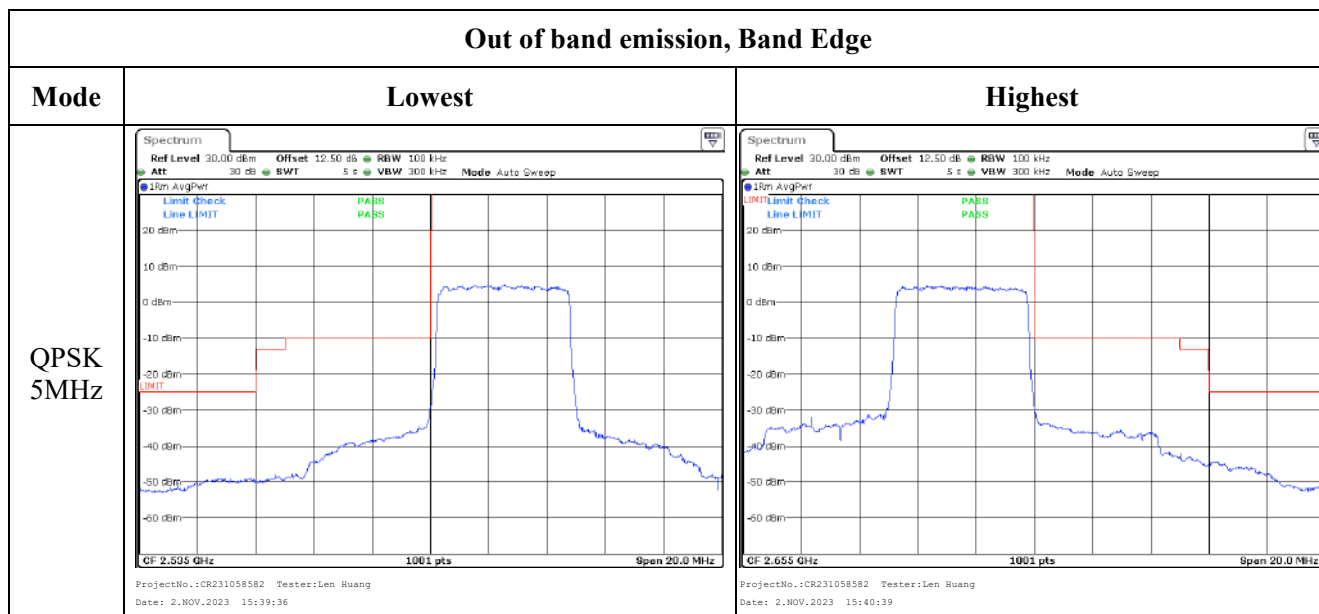
Middle



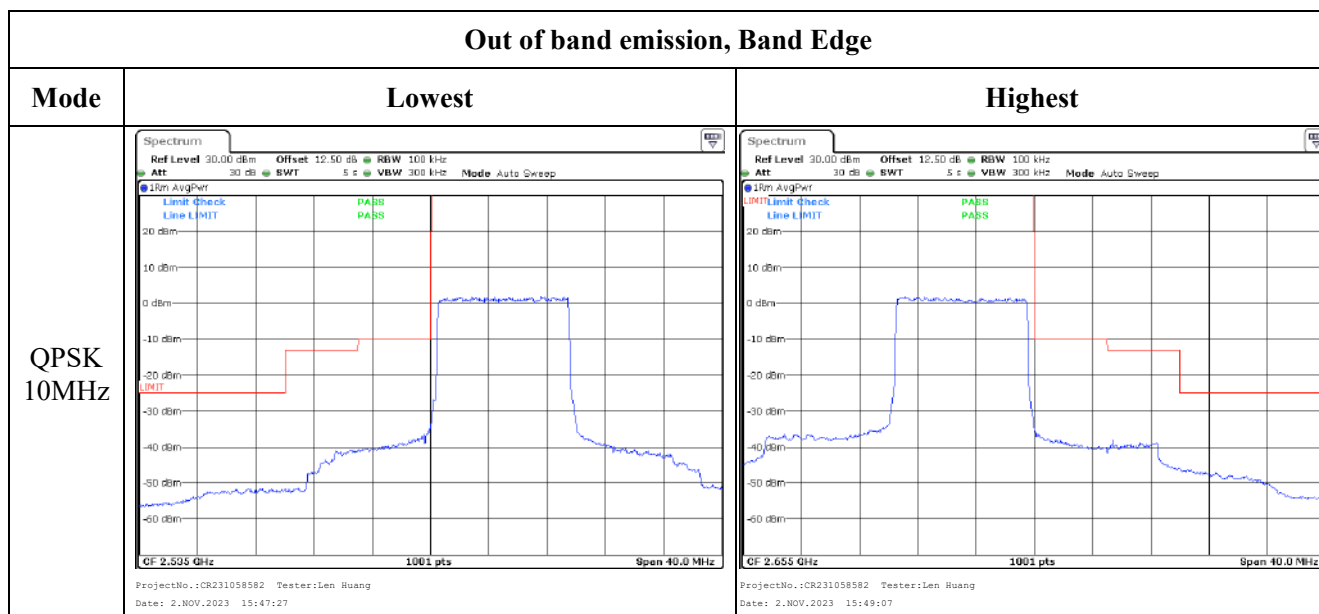
Highest



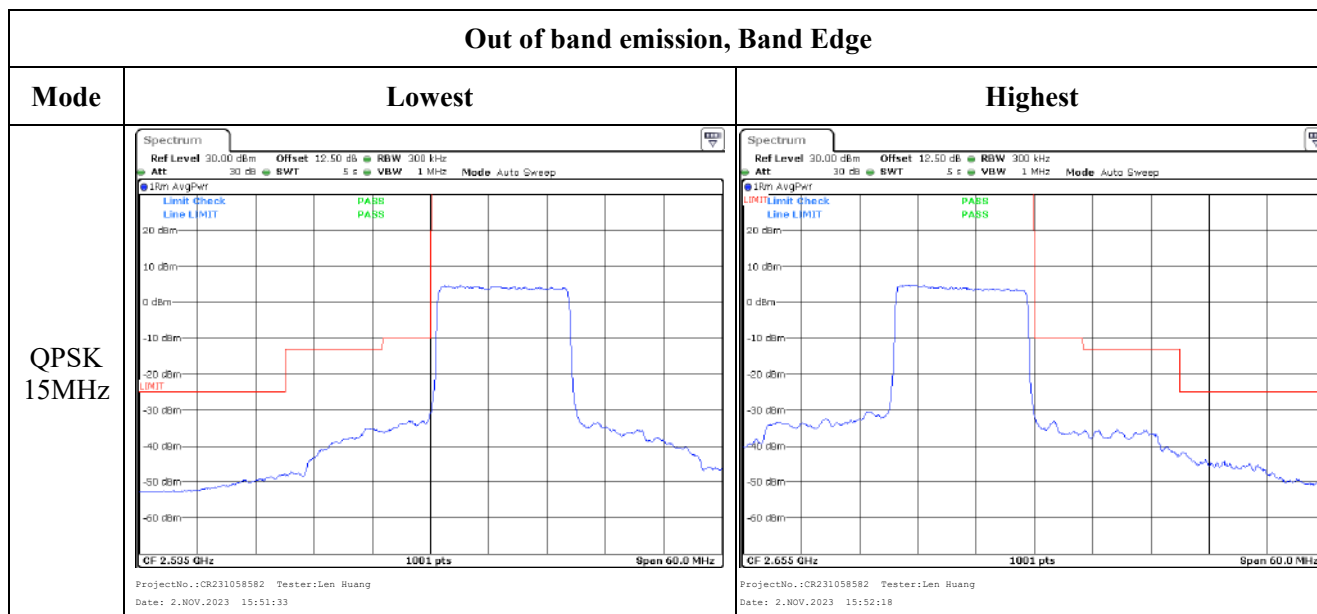
Out of band emission, Band Edge



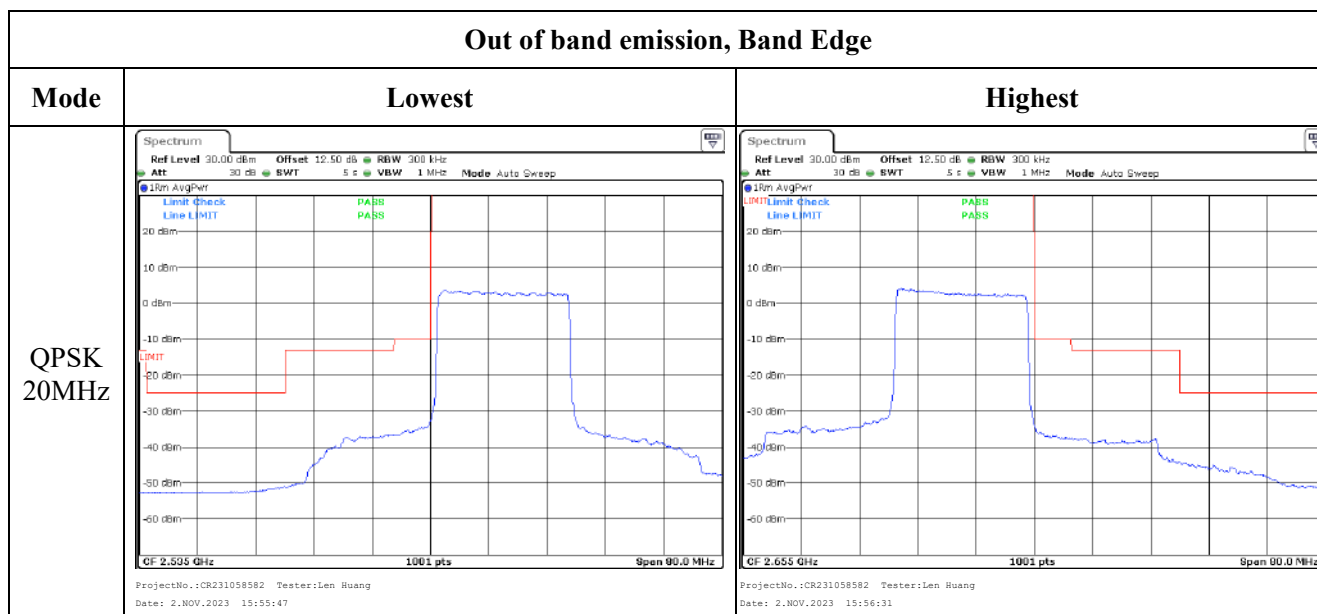
Out of band emission, Band Edge



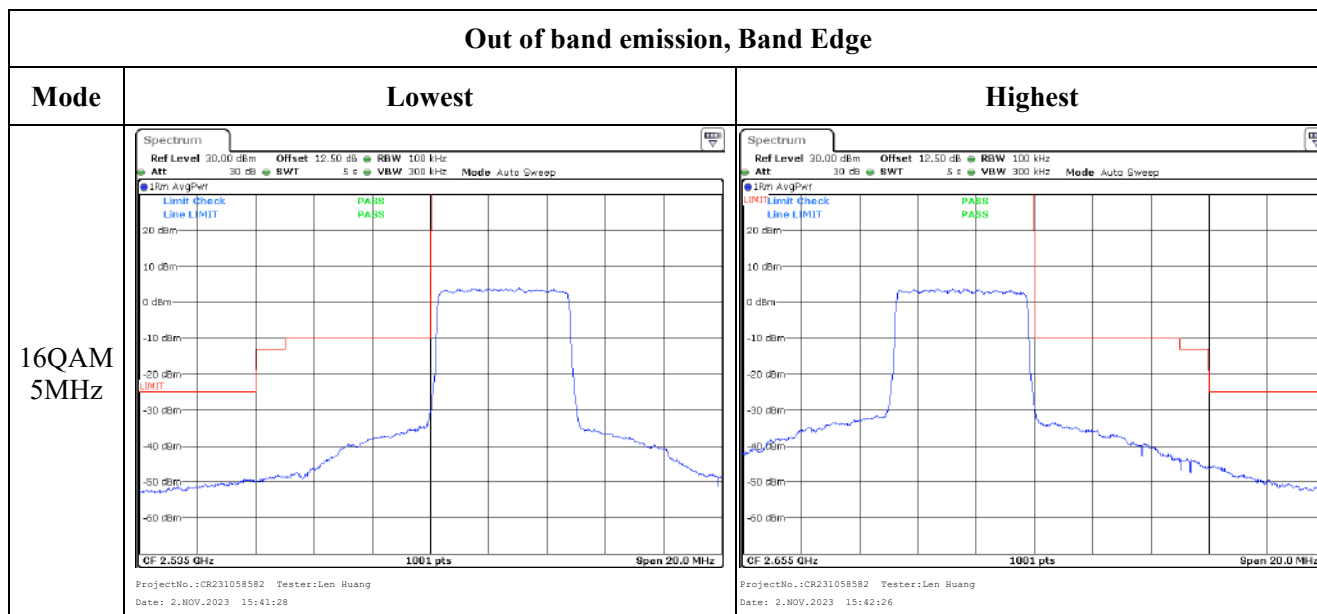
Out of band emission, Band Edge



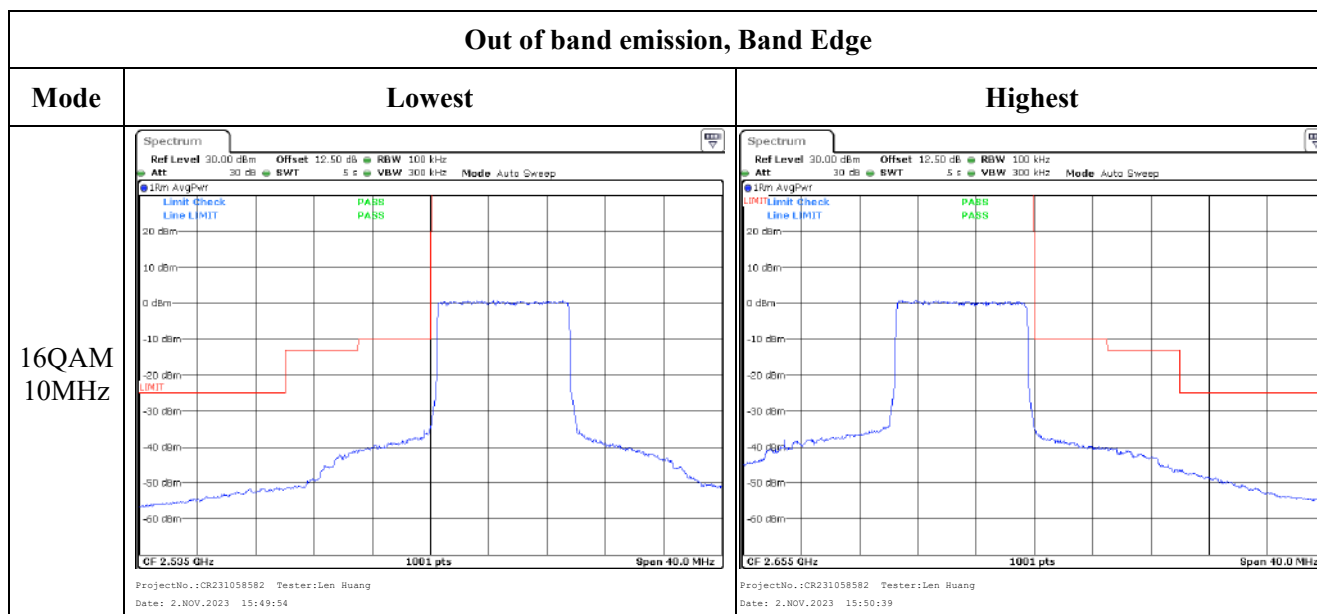
Out of band emission, Band Edge



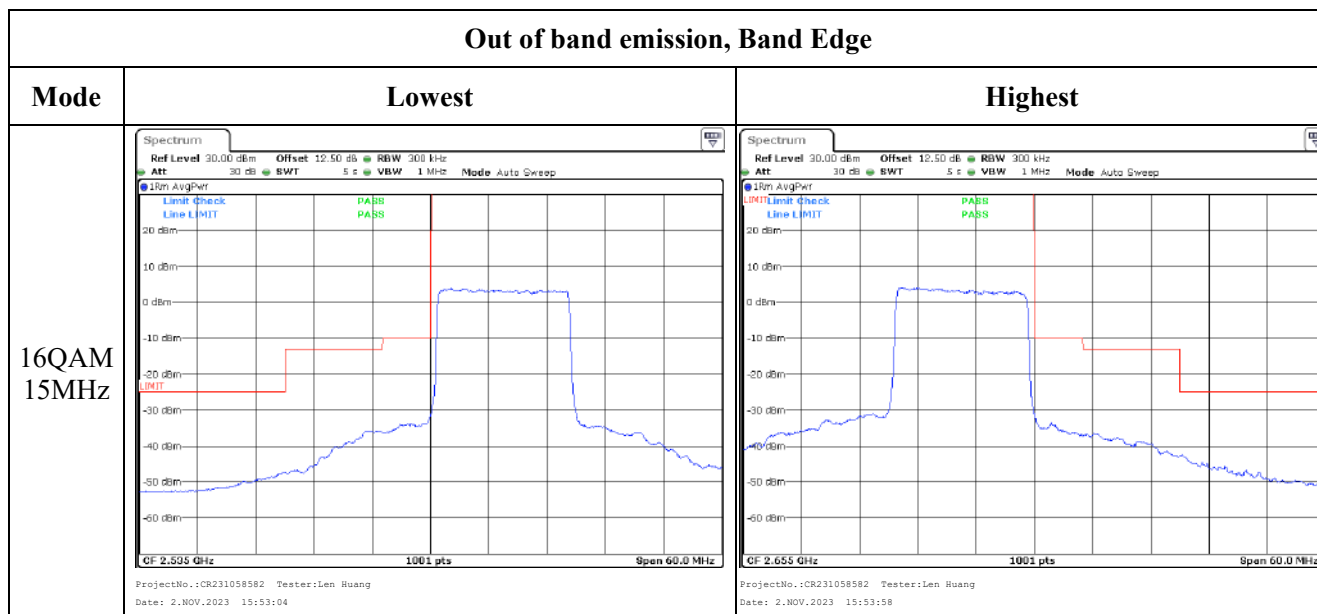
Out of band emission, Band Edge



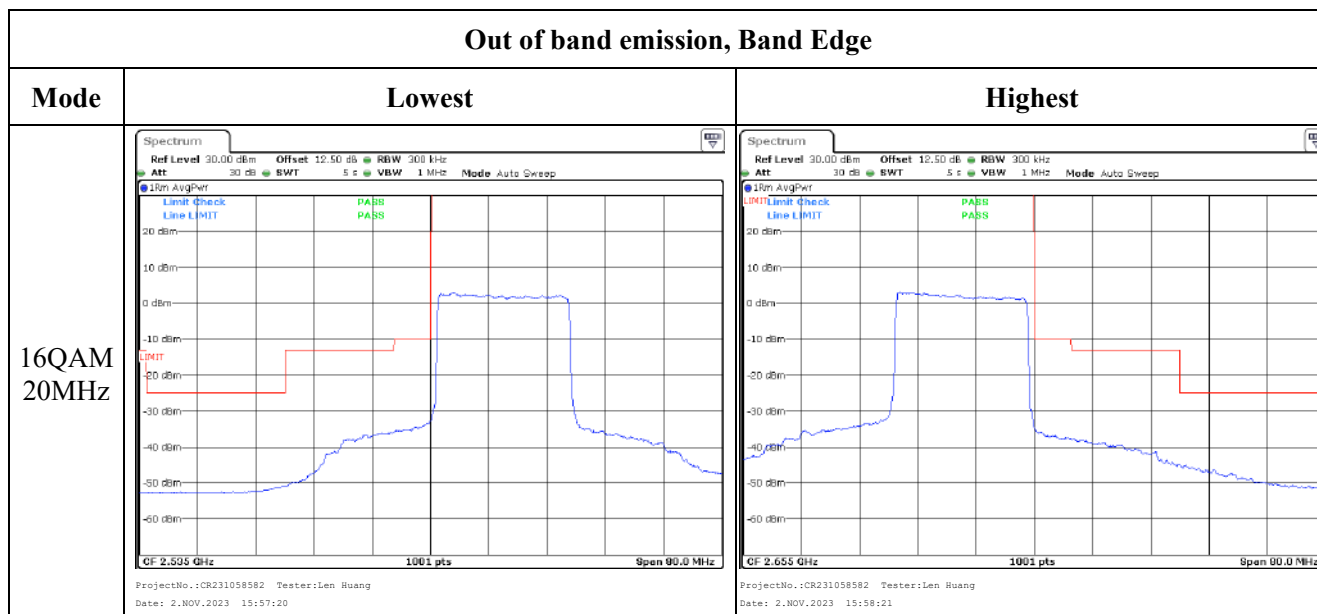
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.16 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	2BZE-3	Test Date:	2023/10/24-2023/10/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Leg Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6-26	Relative Humidity: (%)	50-52	ATM Pressure: (kPa)	101-101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Minl-Circuits	Power Splitter	ZFRSC-183-S+	S F448201619	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	2023/9/28	2024/9/27
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	1745	1779.3
3MHz	1711.5	1745	1778.5
5MHz	1712.5	1745	1777.5
10MHz	1715	1745	1775
15MHz	1717.5	1745	1772.5
20MHz	1720	1745	1770

Test Data:						
FCC§2.1046;§ 27.50(d)(4)						
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	20.7	20.61	20.45	19.54	30
	RB1#3	20.74	20.56	20.36		
	RB1#5	20.7	20.57	20.40		
	RB3#0	20.64	20.48	20.46		
	RB3#3	20.7	20.46	20.42		
	RB6#0	19.76	19.48	19.59		
1.4MHz 16QAM	RB1#0	20.01	19.60	19.49	19.05	30
	RB1#3	20.25	19.77	19.58		
	RB1#5	20.10	19.57	19.33		
	RB3#0	20.01	19.80	19.78		
	RB3#3	20.06	19.77	19.67		
	RB6#0	18.44	18.78	18.05		
3MHz QPSK	RB1#0	20.51	20.47	20.26	19.57	30
	RB1#8	20.46	20.46	20.61		
	RB1#14	20.41	20.77	20.62		
	RB6#0	19.37	20.11	19.96		
	RB6#9	19.51	20.05	19.80		
	RB15#0	19.45	20.11	19.99		
3MHz 16QAM	RB1#0	19.68	20	19.79	18.89	30
	RB1#8	19.93	20.09	19.75		
	RB1#14	19.9	19.91	19.44		
	RB6#0	18.35	18.99	18.20		
	RB6#9	18.53	18.96	18.08		
	RB15#0	18.61	19.03	18.1		
5MHz QPSK	RB1#0	20.61	20.30	20.41	19.8	30
	RB1#13	20.57	20.34	20.33		
	RB1#24	21	20.81	20.27		
	RB15#0	19.80	20.42	20.1		
	RB15#10	19.92	20.3	19.88		
	RB25#0	19.82	20.32	19.93		
5MHz 16QAM	RB1#0	20.00	19.60	19.39	19.5	30
	RB1#13	20.70	19.99	19.55		
	RB1#24	20.3	19.39	18.81		
	RB15#0	18.4	18.98	18.35		
	RB15#10	18.59	18.95	18.2		
	RB25#0	18.5	18.96	18.30		
10MHz QPSK	RB1#0	20.67	20.46	20.38	19.63	30

	RB1#25	20.53	20.38	20.23		
	RB1#49	20.5	20.83	20.34		
	RB25#0	19.06	19.71	19.92		
	RB25#25	19.34	19.79	19.73		
	RB50#0	19.20	19.75	19.82		
10MHz 16QAM	RB1#0	20.06	19.50	20.00	19.53	30
	RB1#25	20.43	19.5	19.87		
	RB1#49	20.73	19.73	19.69		
	RB25#0	18.39	19.09	18.7		
	RB25#25	18.73	19.20	18.6		
	RB50#0	18.58	19.1	18.79		
15MHz QPSK	RB1#0	20.75	20.58	20.40	19.55	30
	RB1#38	20.63	20.53	20.29		
	RB1#74	20.70	20.63	20.30		
	RB36#0	19.62	20.02	20.46		
	RB36#39	19.70	19.82	20.07		
	RB75#0	19.6	19.91	20.33		
15MHz 16QAM	RB1#0	20.04	20.03	19.98	19.21	30
	RB1#38	20.08	19.95	19.83		
	RB1#74	20.41	19.82	19.19		
	RB36#0	18.52	19.07	18.4		
	RB36#39	18.69	18.94	18.14		
	RB75#0	18.63	19.01	18.32		
20MHz QPSK	RB1#0	20.65	20.66	20.50	19.56	30
	RB1#50	20.49	20.56	20.51		
	RB1#99	20.6	20.76	20.67		
	RB50#0	19.05	19.77	20.48		
	RB50#50	19.23	19.54	20.15		
	RB100#0	19.13	19.58	20.30		
20MHz 16QAM	RB1#0	19.88	20.17	19.78	19.1	30
	RB1#50	19.6	19.61	19.33		
	RB1#99	20.3	20.00	18.95		
	RB50#0	18.47	19.28	18.64		
	RB50#50	18.69	19.13	18.4		
	RB100#0	18.60	19.22	18.50		
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	5.19	5.36	5.33	13
	RB100#0	5.45	5.45	5.42	13
20MHz 16QAM	RB1#0	5.94	6.46	5.83	13
	RB100#0	5.59	5.25	5.68	13
Result:					Pass

FCC §2.1049, §27.53: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	1.254	1.254	1.254
1.4MHz 16QAM	1.102	1.108	1.096	1.254	1.266	1.248
3MHz QPSK	2.695	2.683	2.695	3.012	3.012	2.976
3MHz 16QAM	2.683	2.695	2.695	3.012	3.024	3.000
5MHz QPSK	4.511	4.511	4.511	5.000	5.000	5.000
5MHz 16QAM	4.551	4.551	4.511	5.020	5.020	4.980
10MHz QPSK	8.942	8.942	8.942	9.760	9.800	9.760
10MHz 16QAM	8.982	8.942	8.942	9.720	9.800	9.760
15MHz QPSK	13.473	13.533	13.473	14.940	15.060	15.000
15MHz 16QAM	13.533	13.593	13.533	15.060	15.120	14.940
20MHz QPSK	17.964	18.044	17.964	19.600	19.760	19.520
20MHz 16QAM	18.044	17.964	18.044	19.840	19.840	19.680
Note: The test plots please refer to the Plots of Occupied Bandwidth						

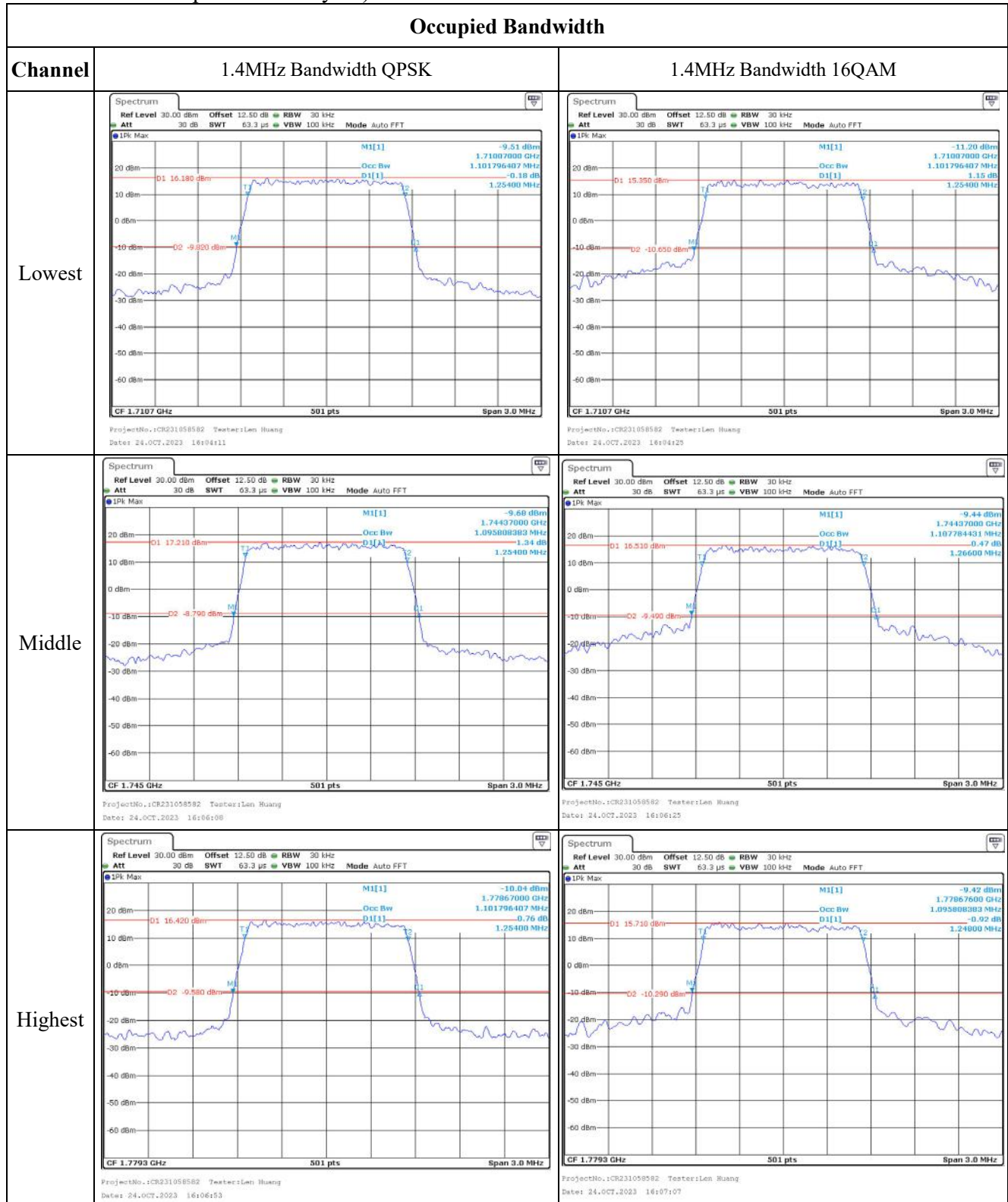
FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: 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	3.85	1710.018	1710.00	1779.002	1780
	-20	3.85	1710.002	1710.00	1779.987	1780
	-10	3.85	1710.026	1710.00	1779.983	1780
	0	3.85	1710.019	1710.00	1779.997	1780
	10	3.85	1710.023	1710.00	1779.995	1780
	20	3.85	1710.016	1710.00	1779.981	1780
	30	3.85	1710.003	1710.00	1779.981	1780
	40	3.85	1710.029	1710.00	1779.016	1780
	50	3.85	1710.012	1710.00	1779.971	1780
Frequency Stability vs. Voltage	20	3.27	1710.097	1710.00	1779.994	1780
	20	4.43	1710.032	1710.00	1779.977	1780
					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	3.85	1710.018	1710.00	1779.994	1780
	-20	3.85	1711.001	1710.00	1779.972	1780
	-10	3.85	1710.003	1710.00	1779.993	1780
	0	3.85	1710.027	1710.00	1779.997	1780
	10	3.85	1710.029	1710.00	1779.989	1780
	20	3.85	1710.999	1710.00	1779.985	1780
	30	3.85	1710.015	1710.00	1779.996	1780
	40	3.85	1710.011	1710.00	1779.991	1780
	50	3.85	1710.016	1710.00	1779.992	1780
Frequency Stability vs. Voltage	20	3.27	1710.022	1710.00	1779.989	1780
	20	4.43	1710.117	1710.00	1779.375	1780
					Result:	Pass

Test Plots (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):



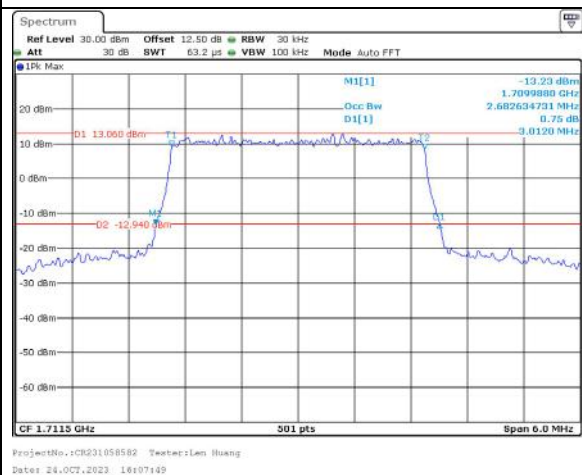
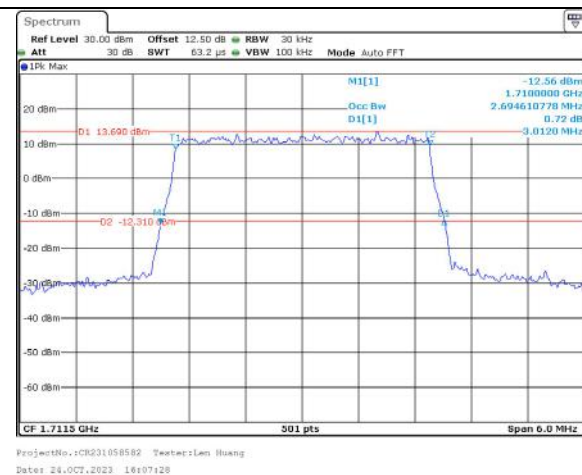
Occupied Bandwidth

Channel

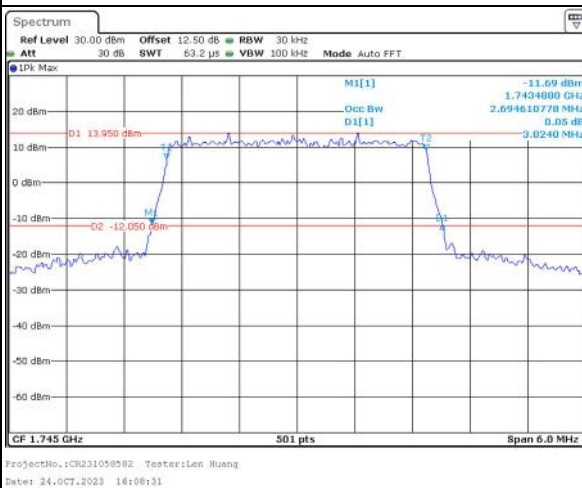
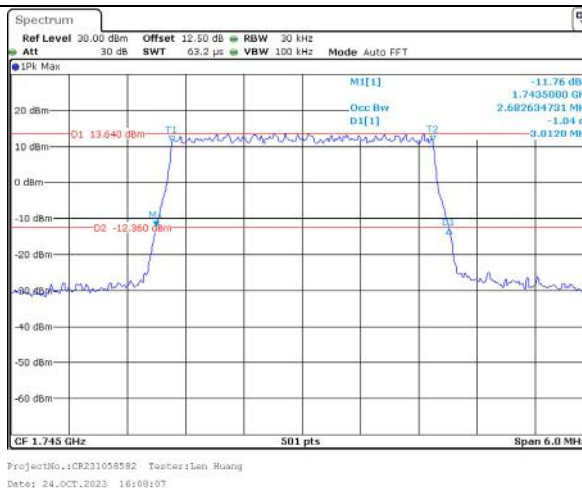
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

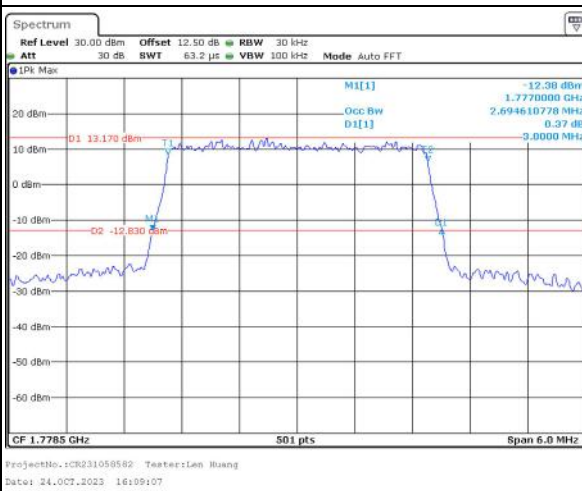
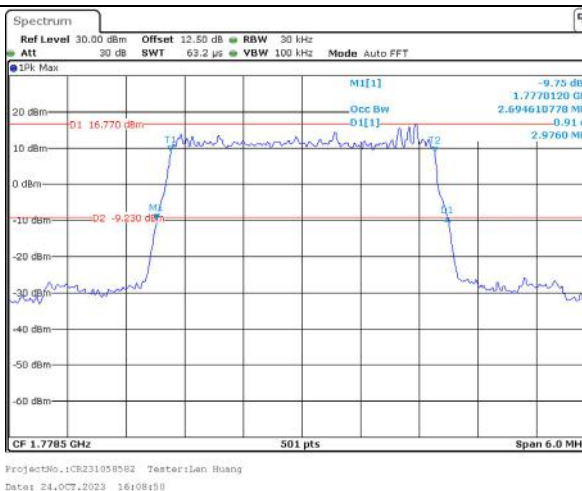
Lowest



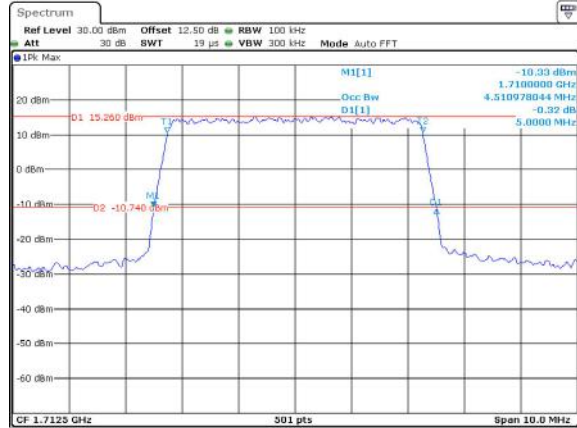
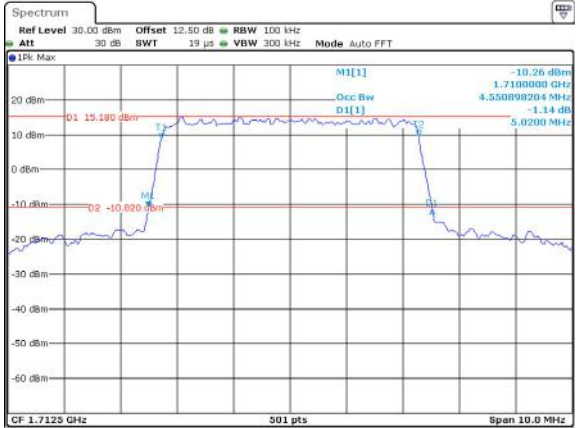
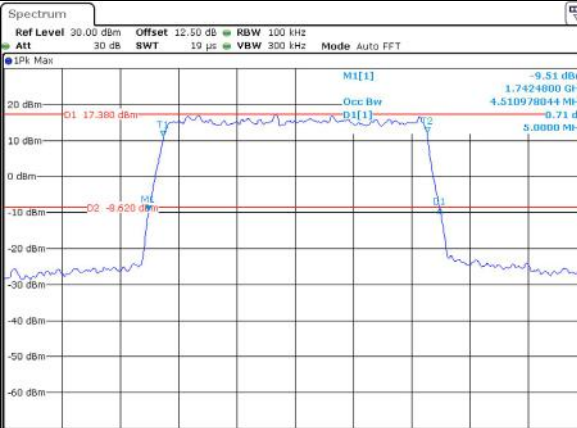
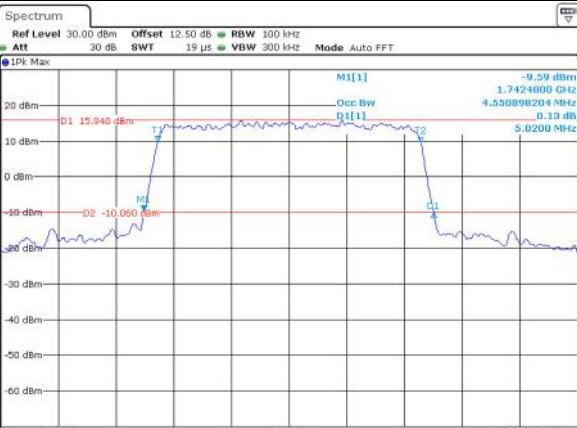
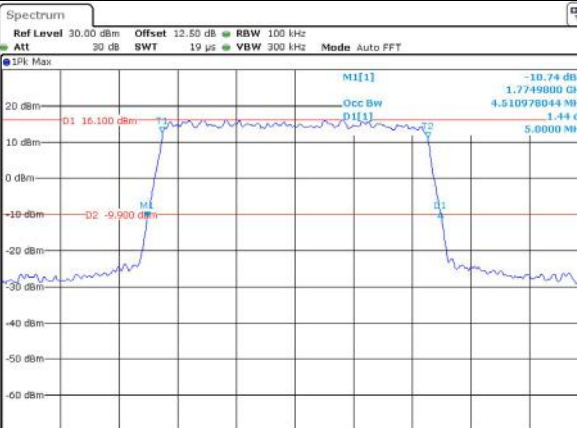
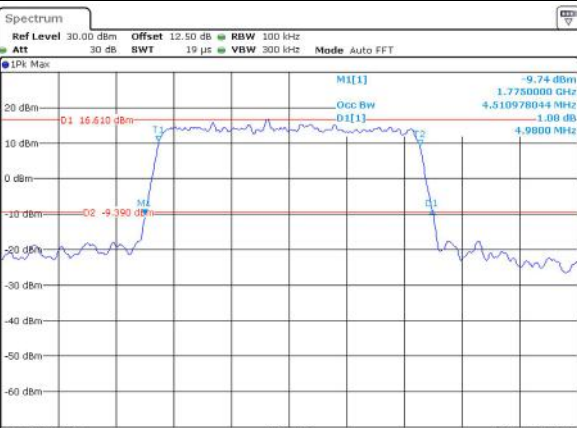
Middle



Highest



Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:09:29	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:09:50
Middle	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:10:44	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:11:08
Highest	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:11:36	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:11:57

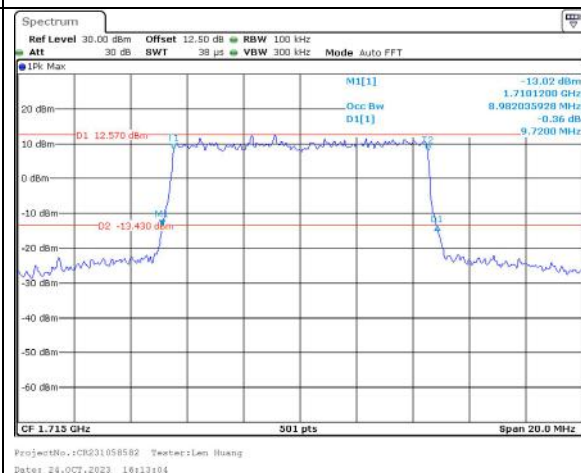
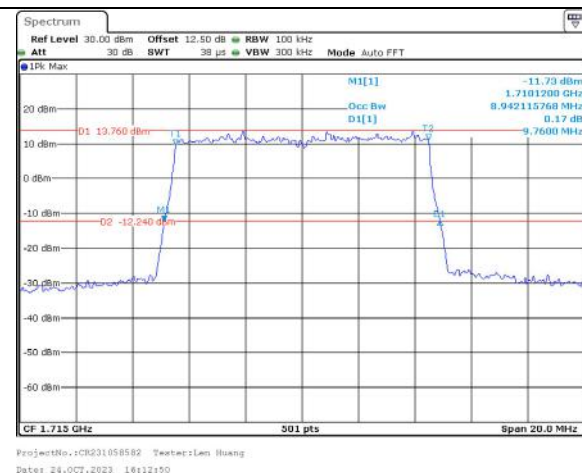
Occupied Bandwidth

Channel

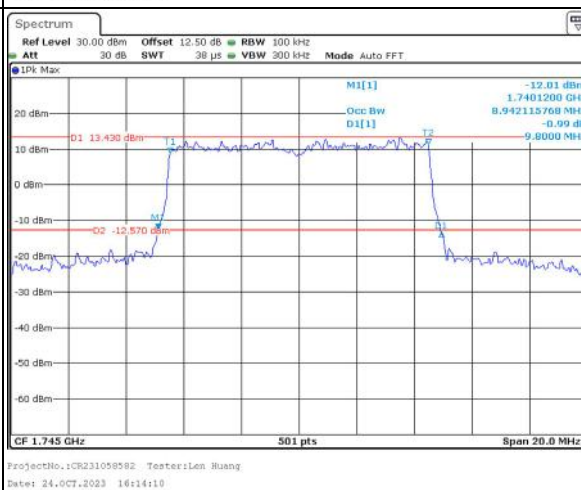
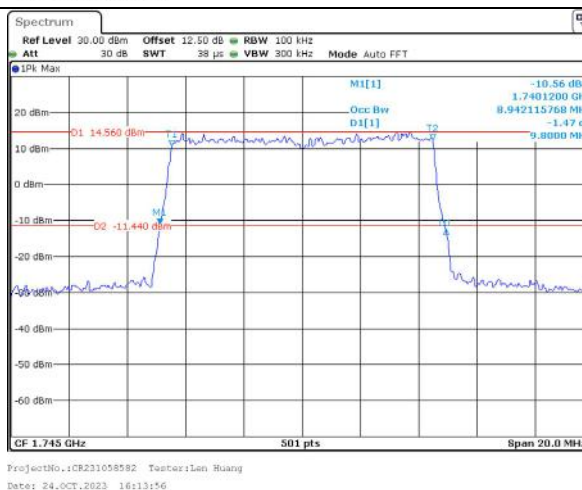
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

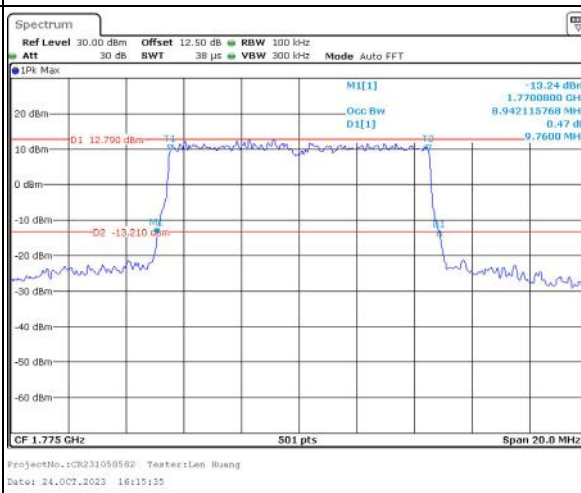
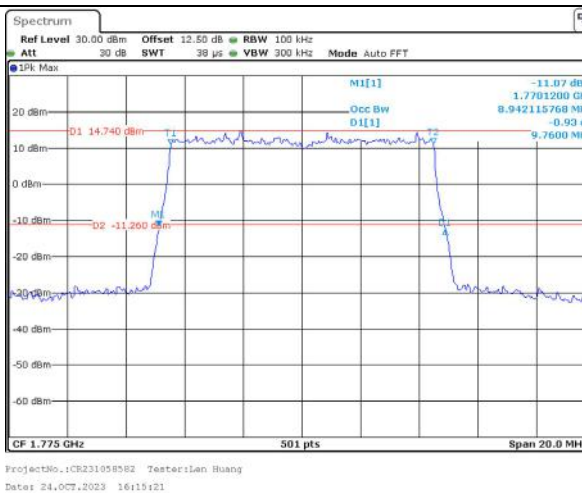
Lowest



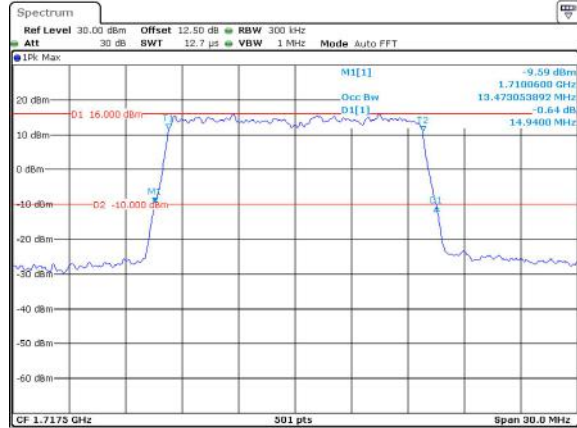
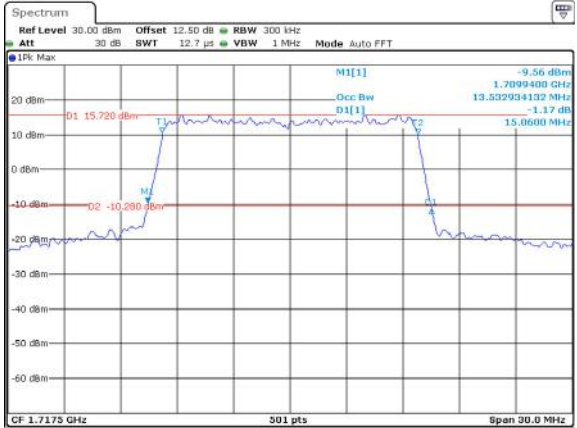
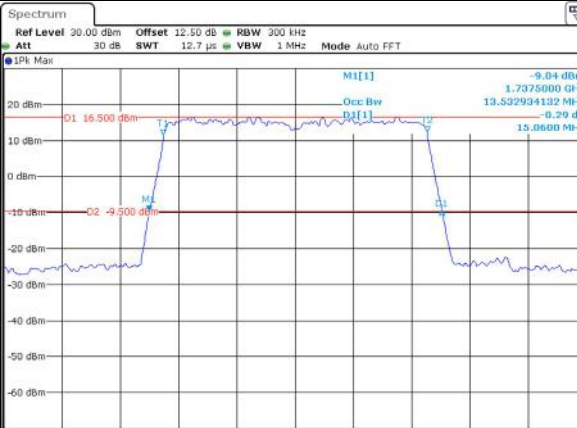
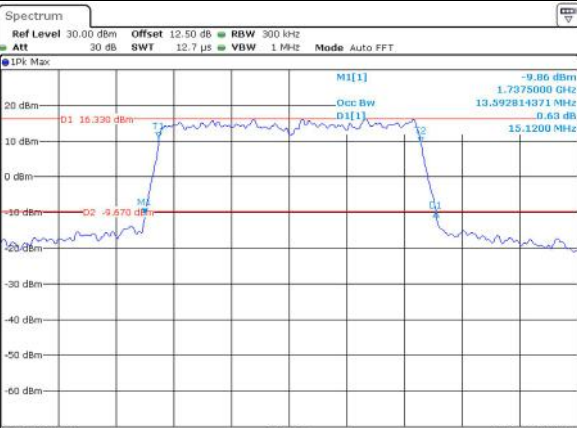
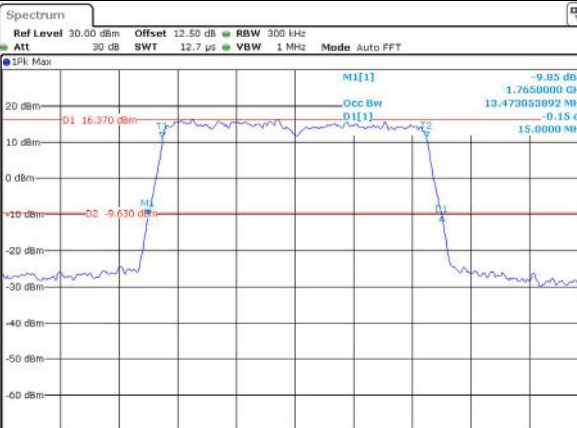
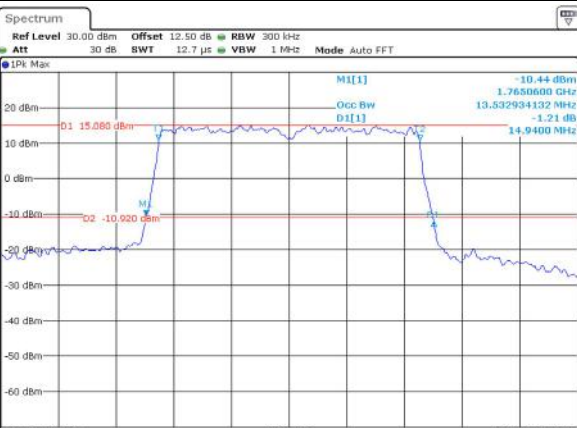
Middle



Highest



Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:16:54	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:17:30
Middle	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:17:57	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:18:23
Highest	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:19:22	 ProjectNo.:CR231058582 Tester:Len Huang Date: 24.OCT.2023 16:19:23

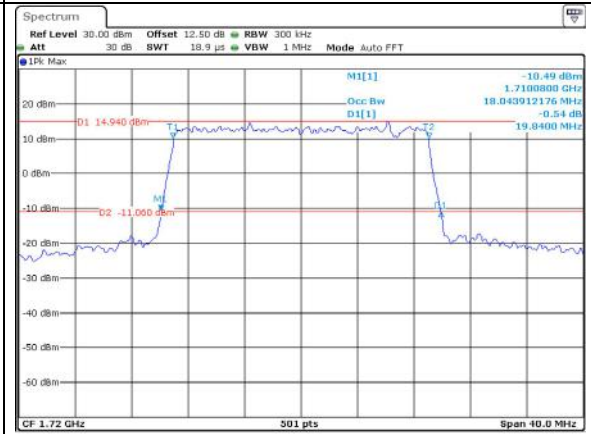
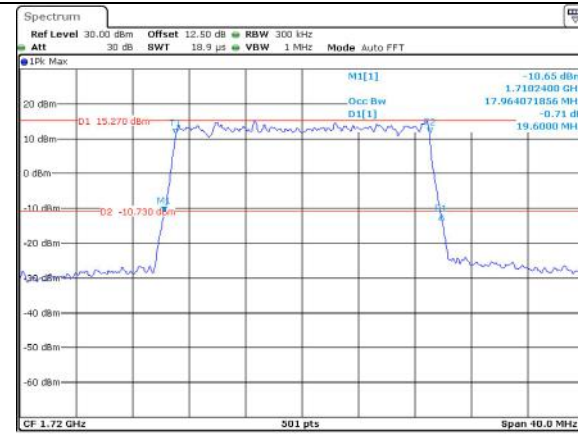
Occupied Bandwidth

Channel

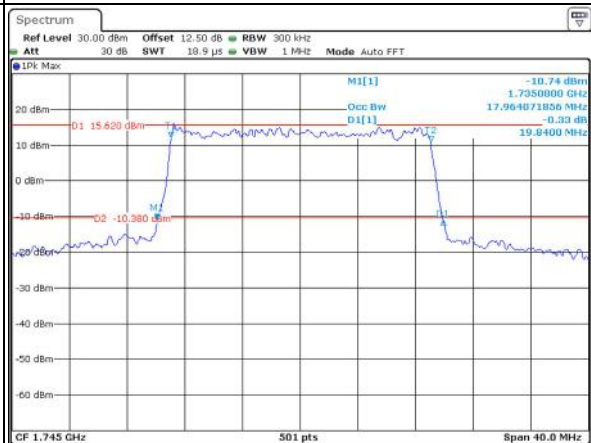
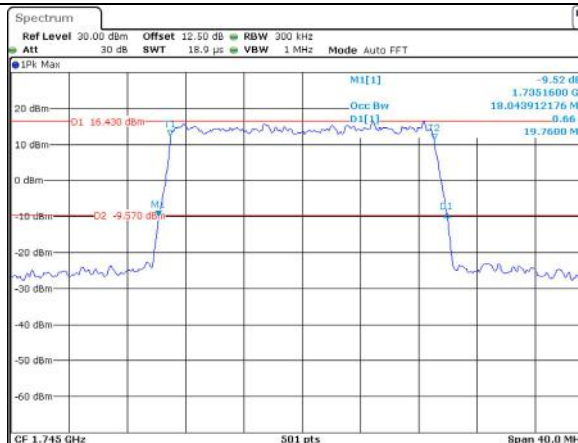
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

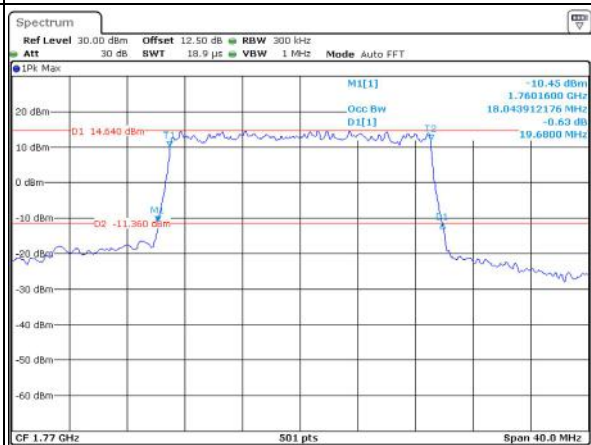
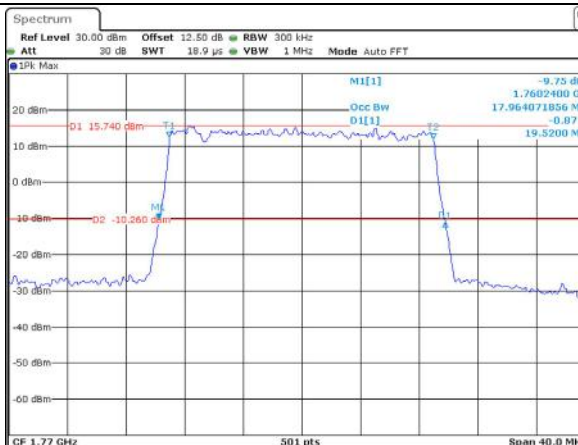
Lowest



Middle



Highest

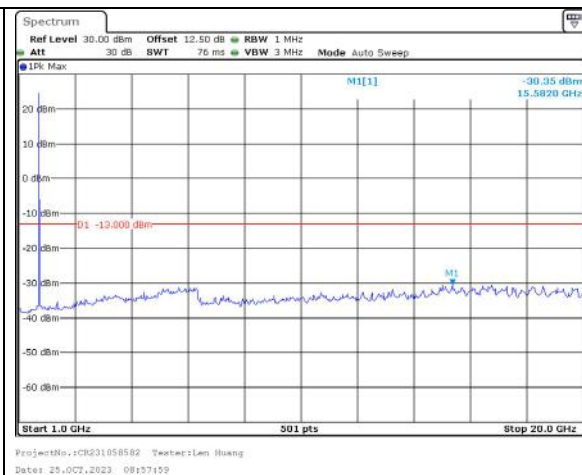
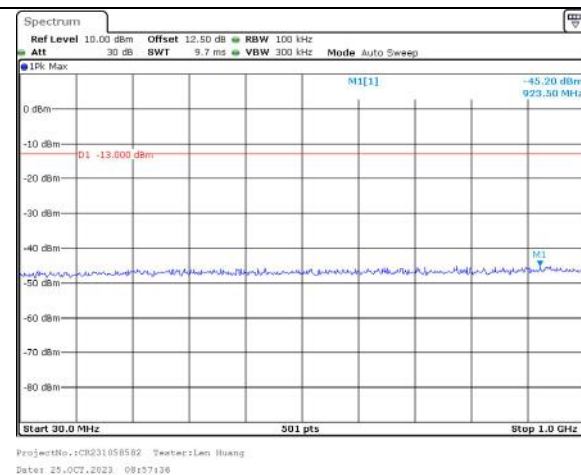


Spurious Emissions at Antenna Terminal

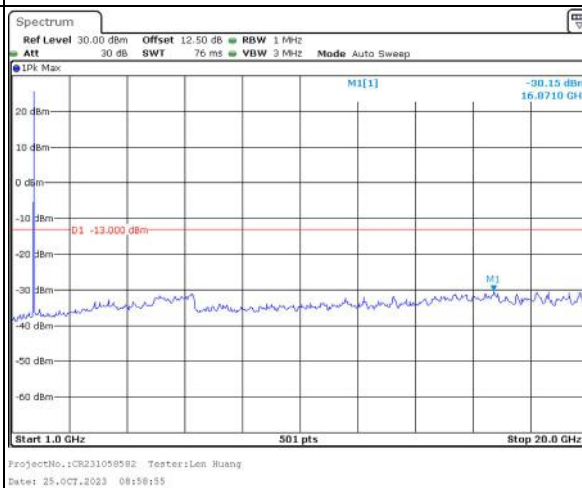
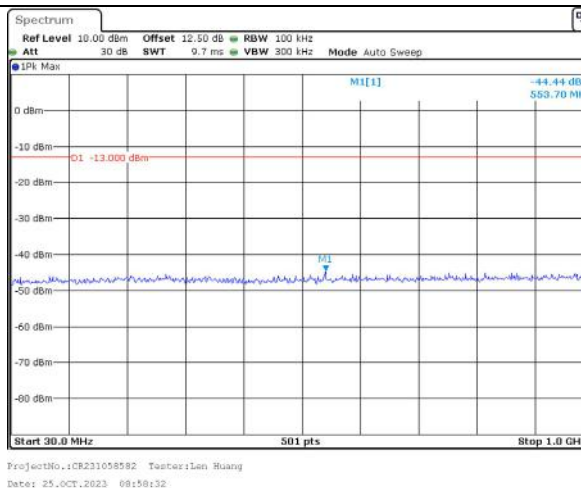
Channel

1.4MHz Bandwidth QPSK

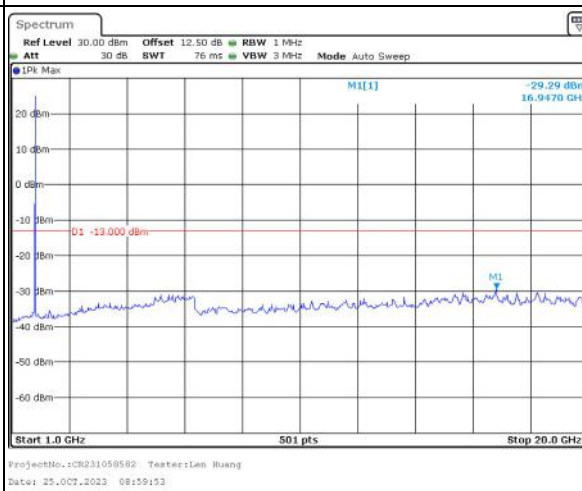
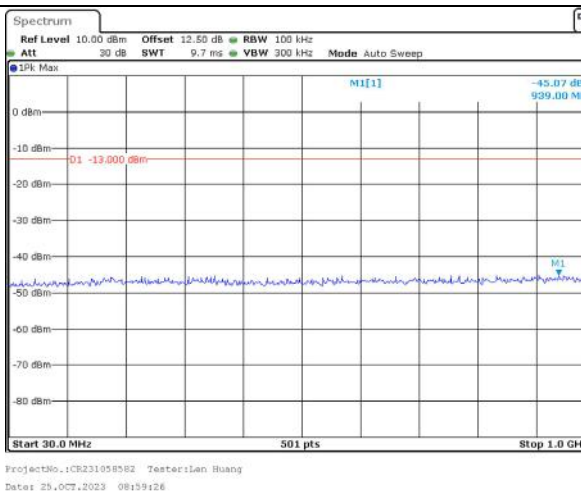
Lowest



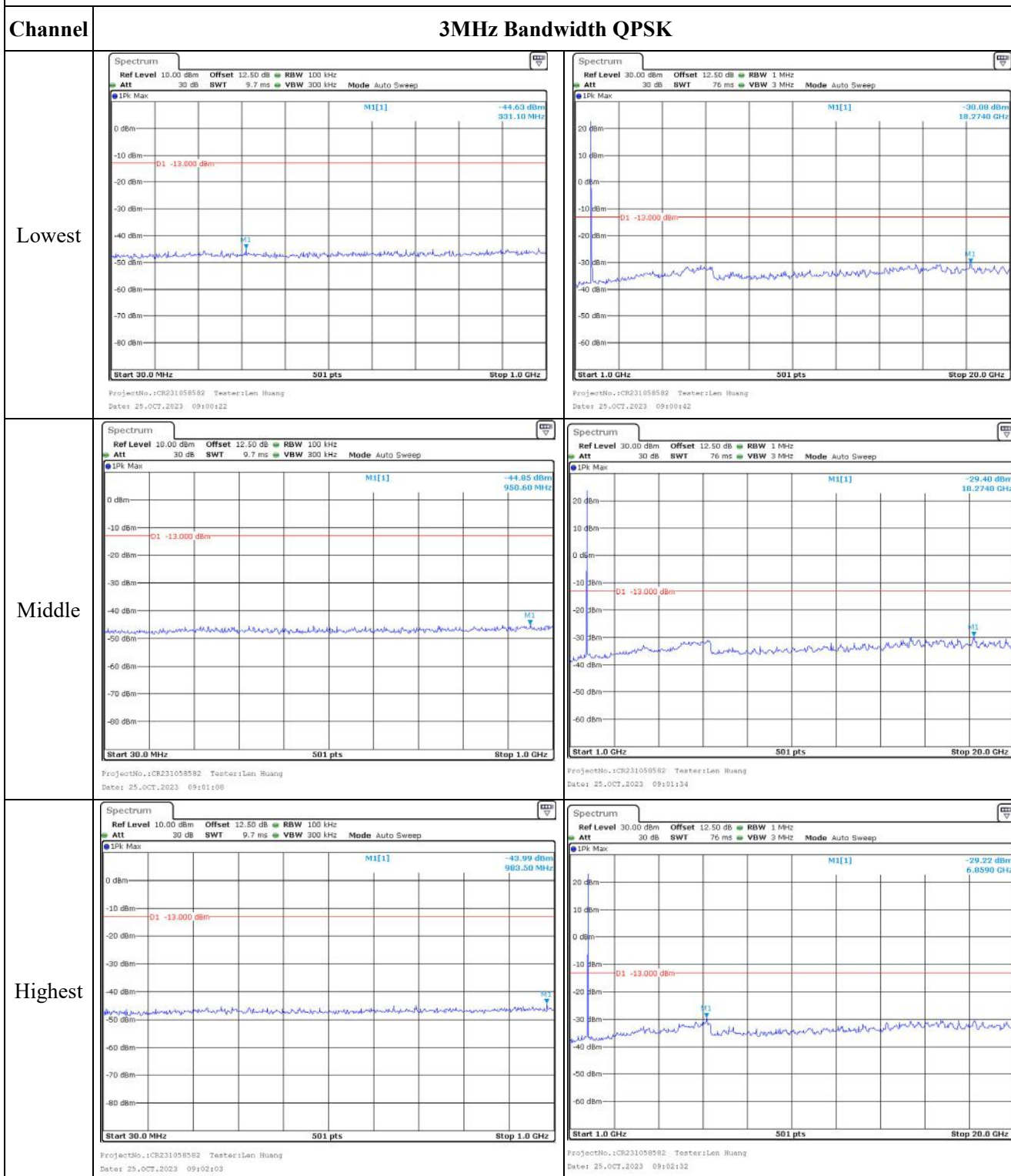
Middle



Highest



Spurious Emissions at Antenna Terminal

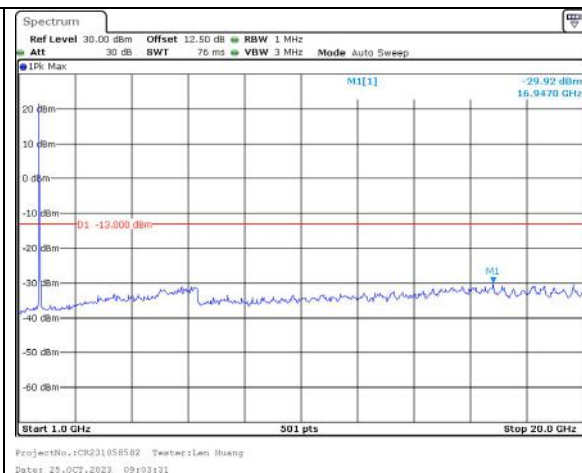
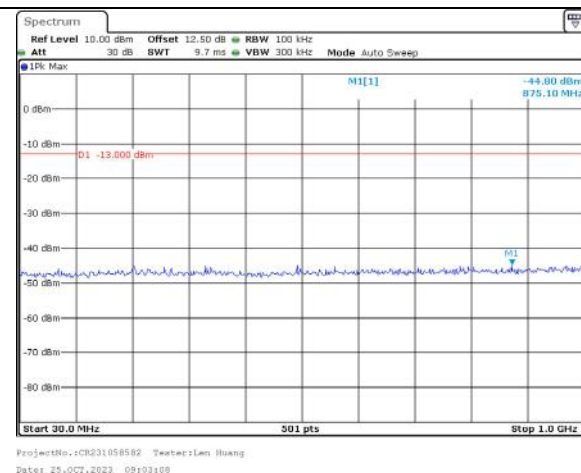


Spurious Emissions at Antenna Terminal

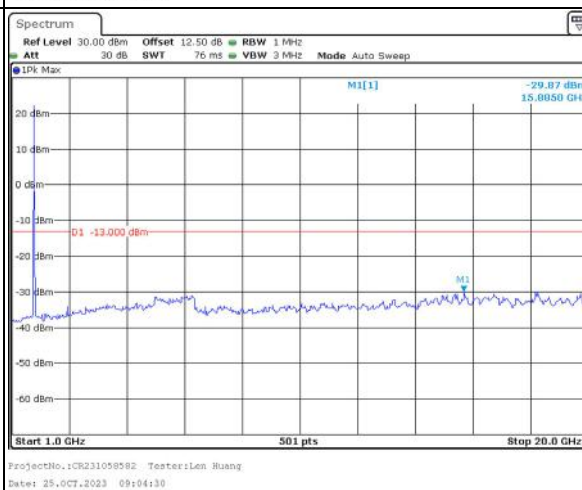
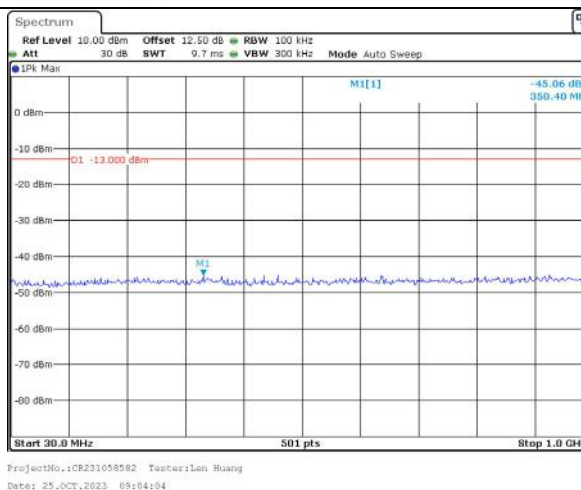
Channel

5MHz Bandwidth QPSK

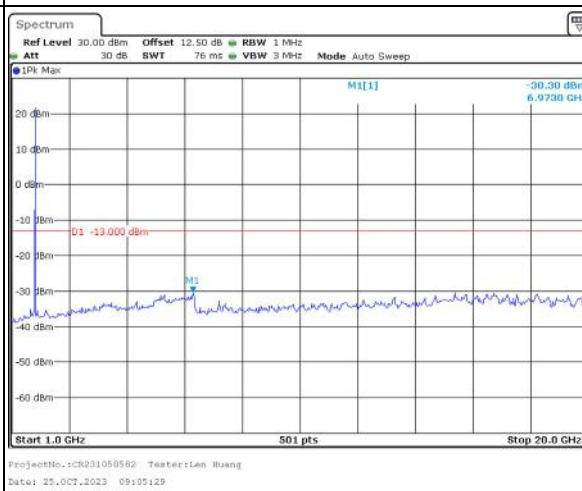
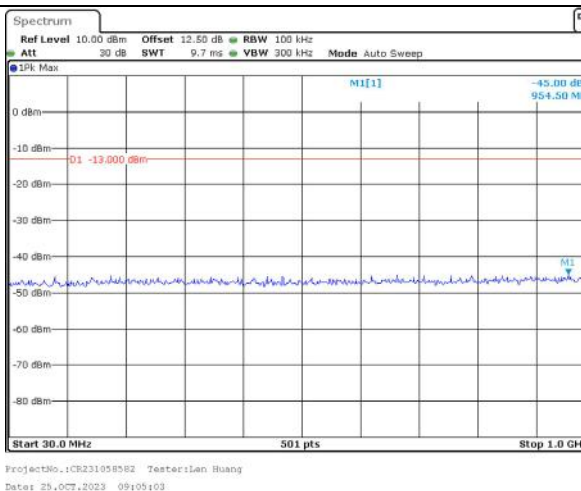
Lowest



Middle



Highest

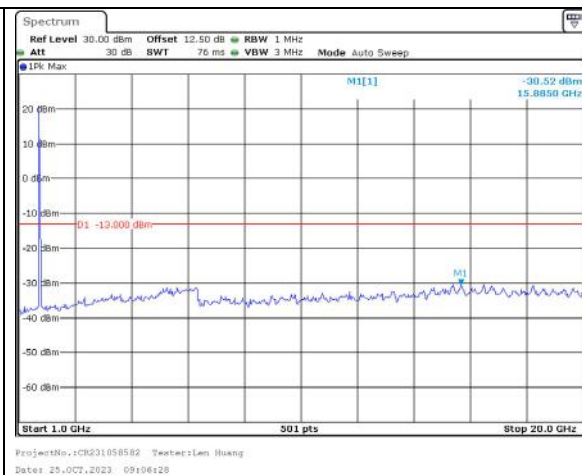
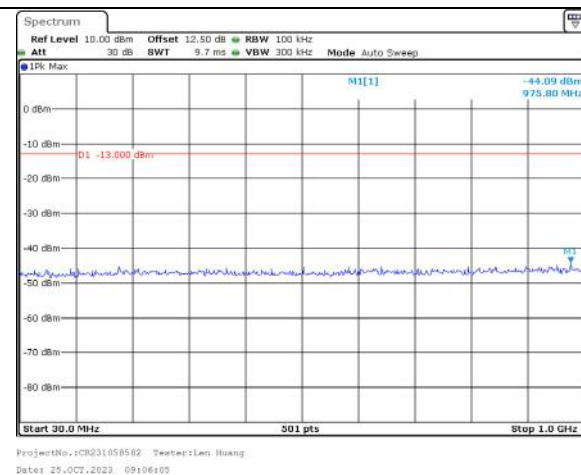


Spurious Emissions at Antenna Terminal

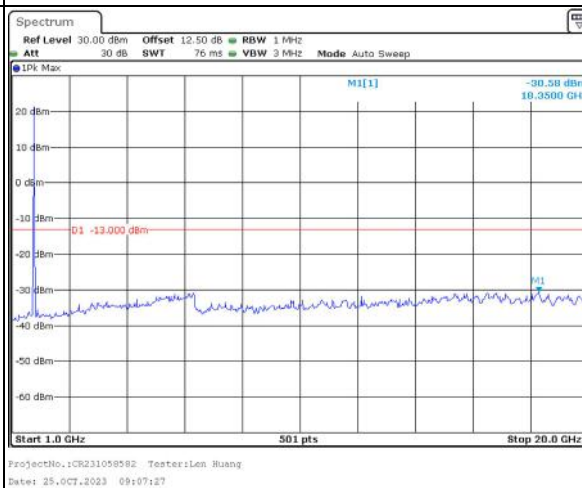
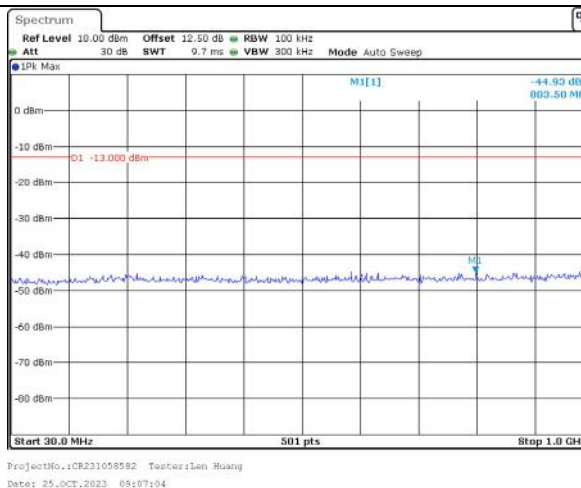
Channel

10MHz Bandwidth QPSK

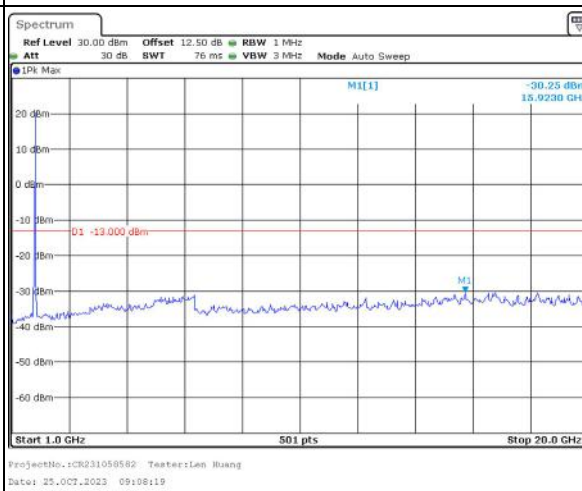
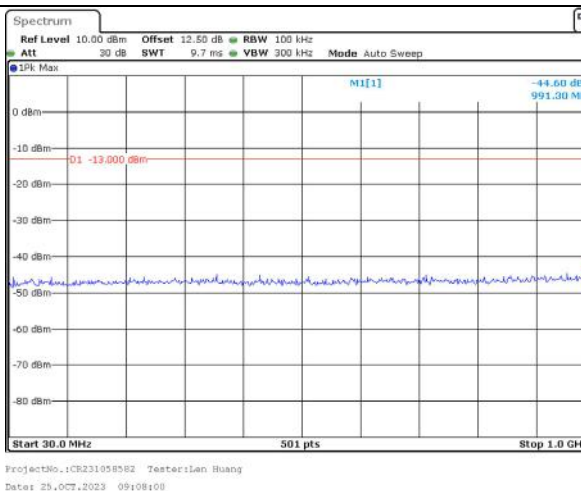
Lowest



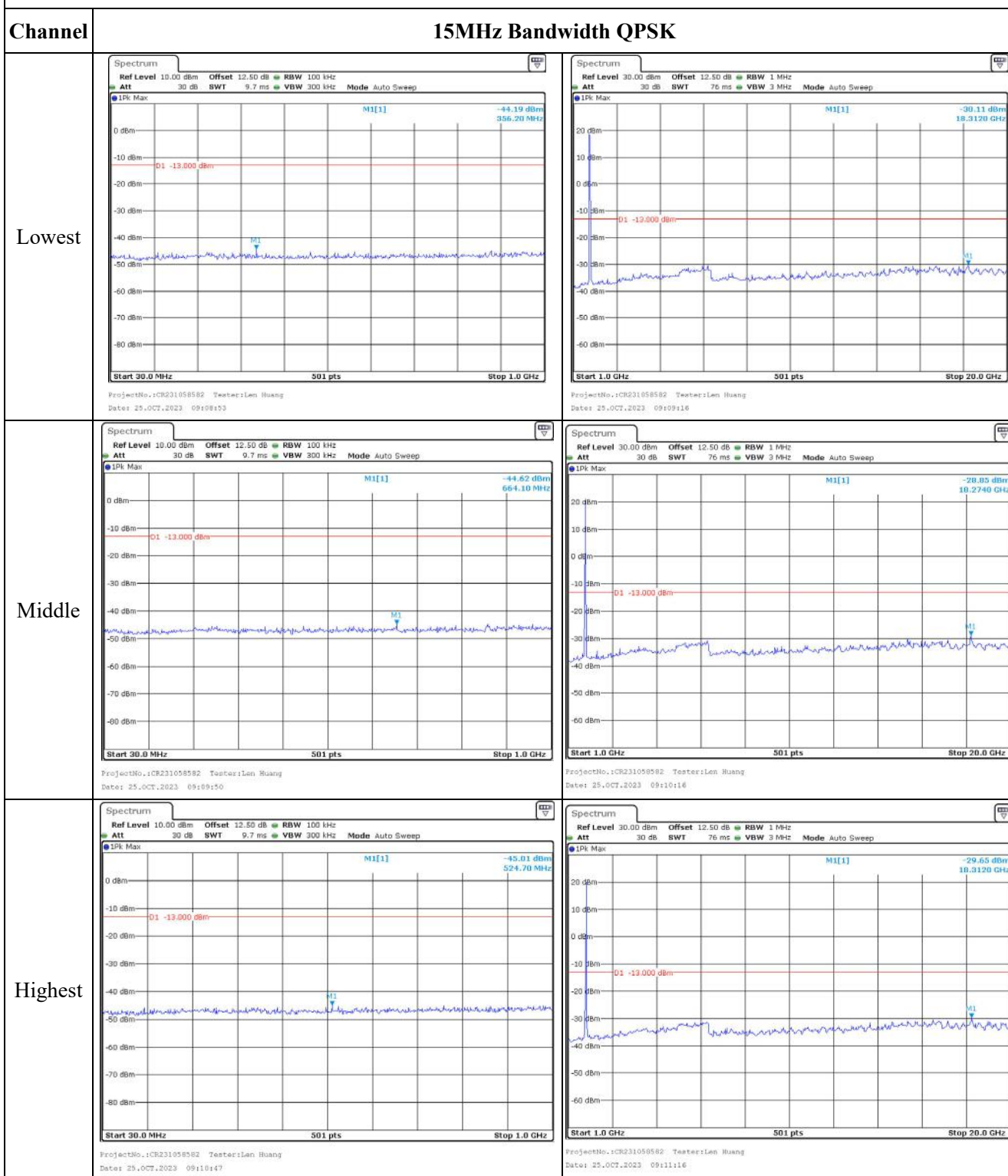
Middle



Highest



Spurious Emissions at Antenna Terminal

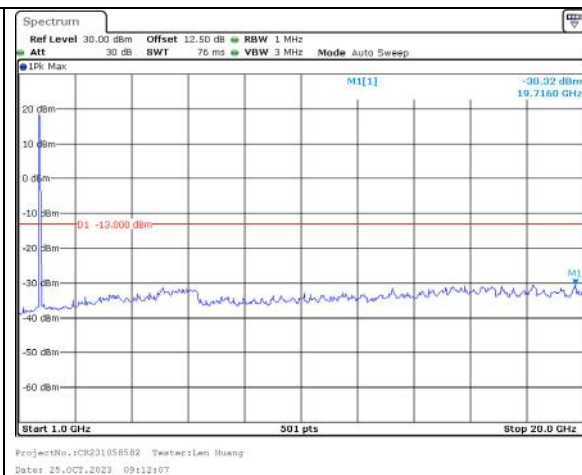
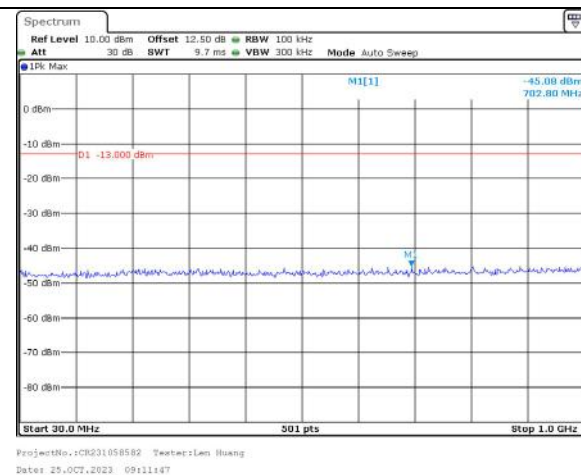


Spurious Emissions at Antenna Terminal

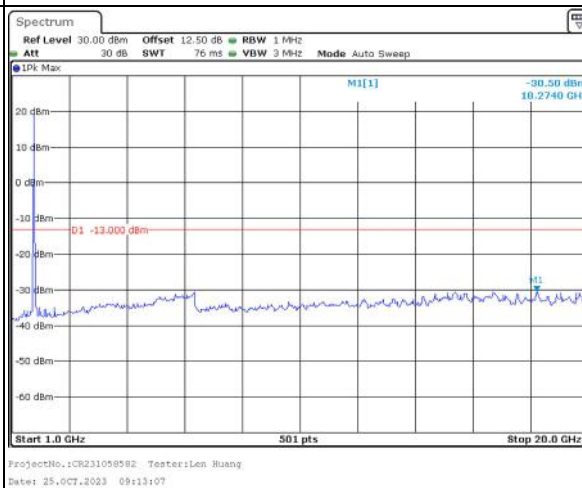
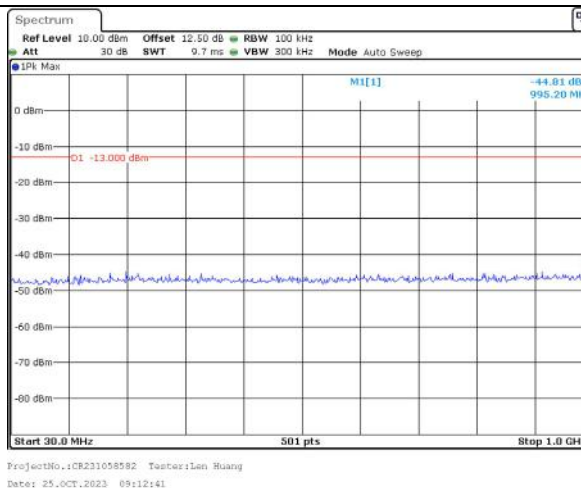
Channel

20MHz Bandwidth QPSK

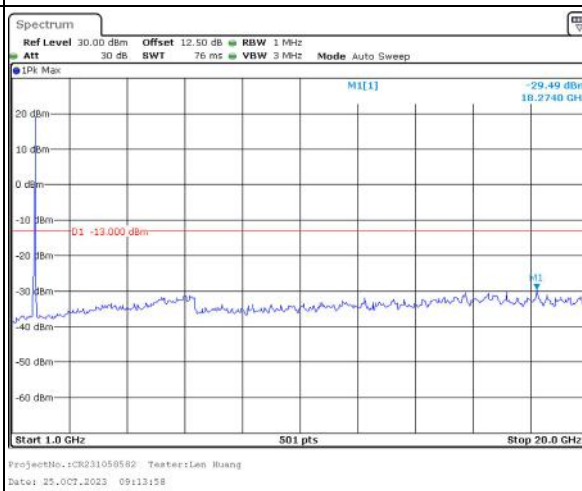
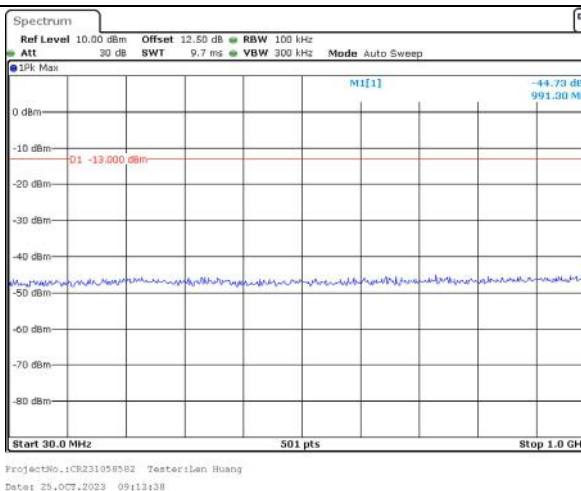
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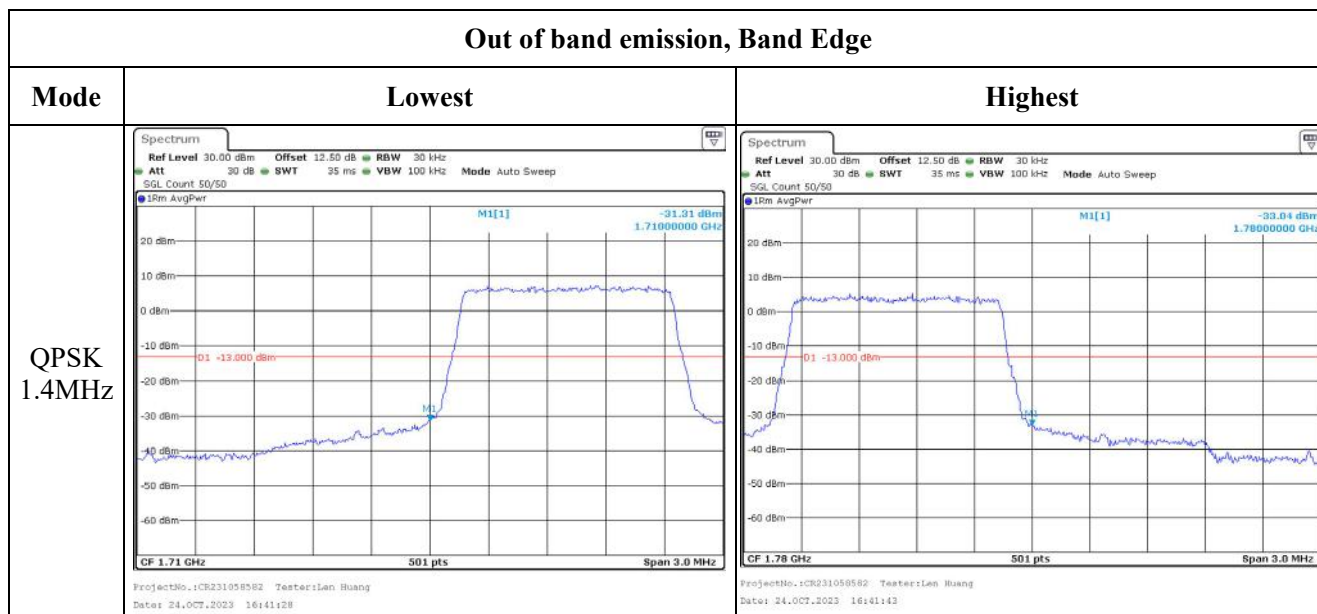
Middle



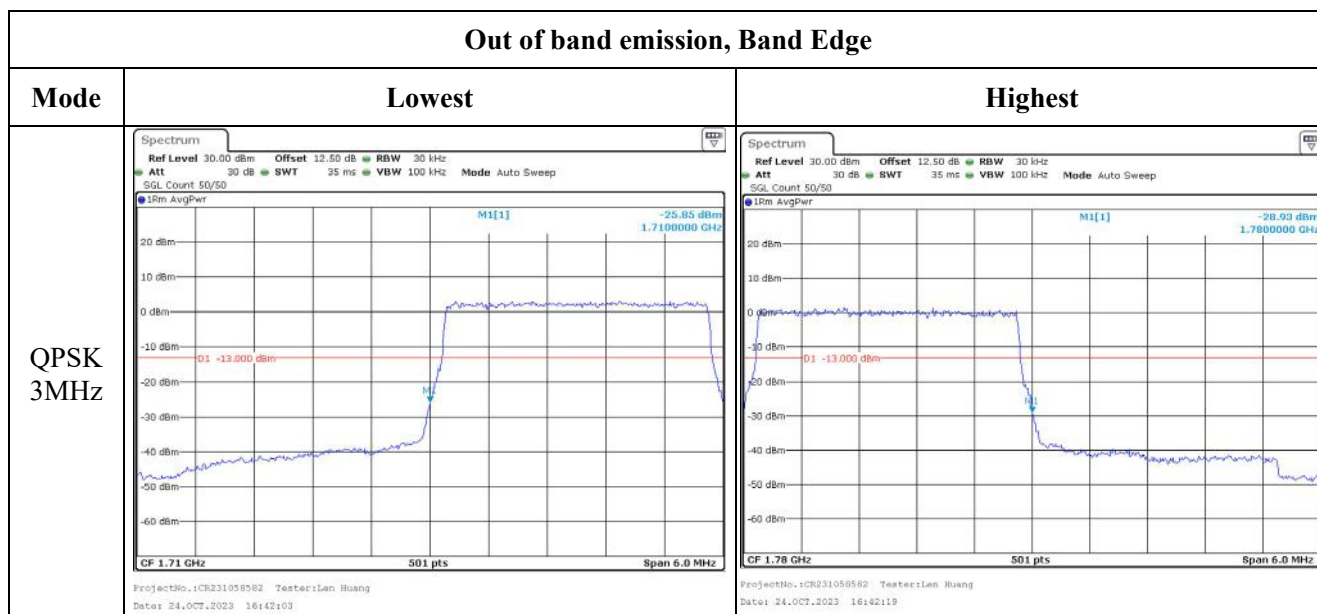
Highest



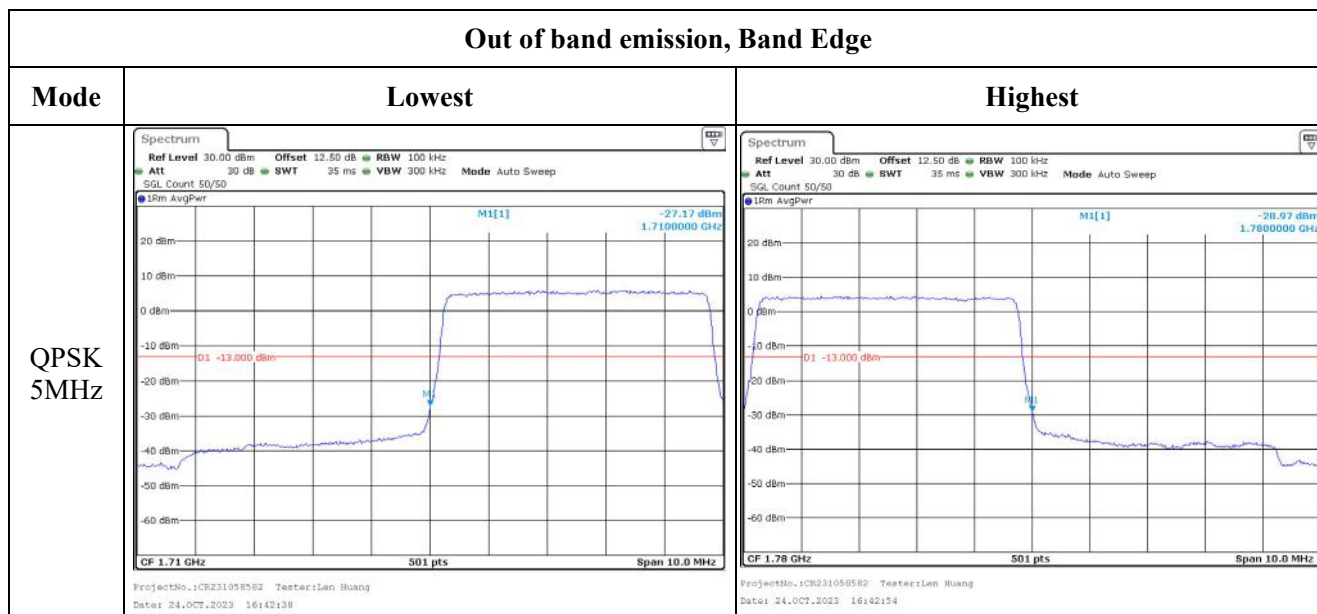
Out of band emission, Band Edge



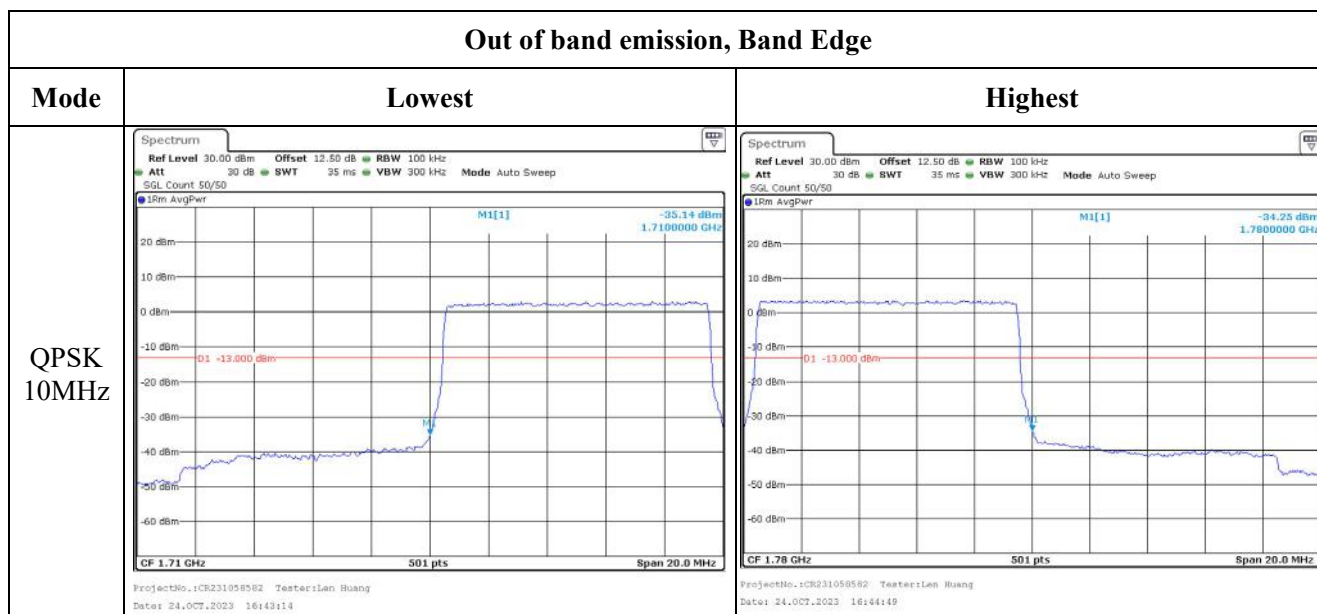
Out of band emission, Band Edge



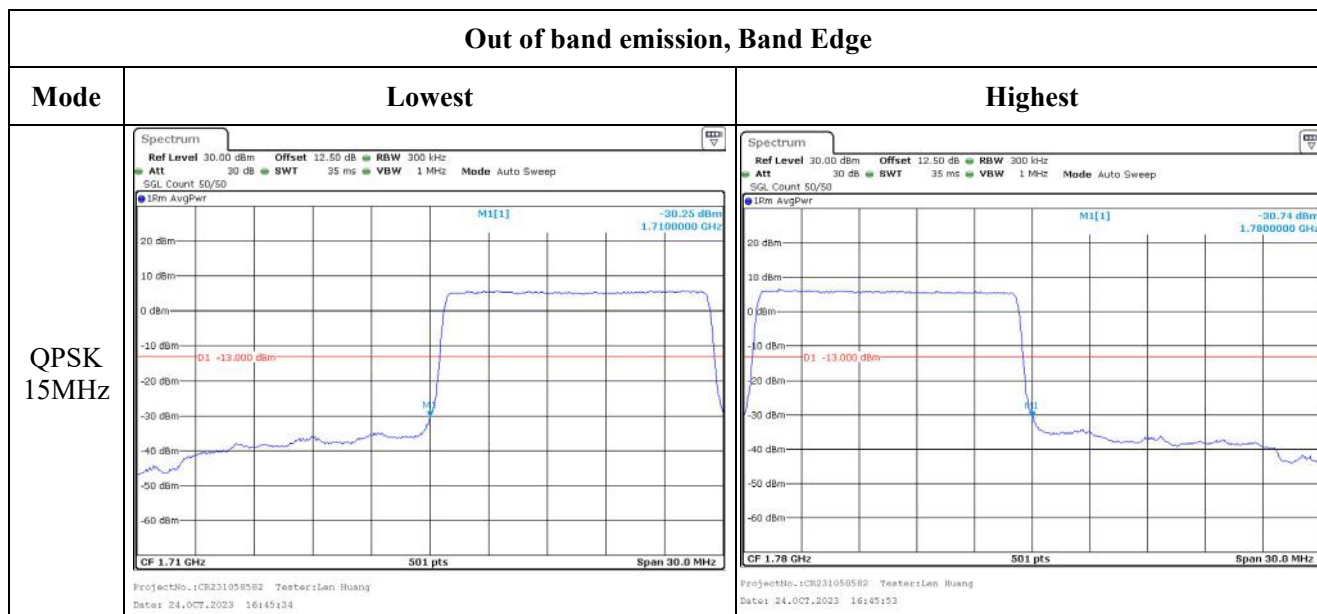
Out of band emission, Band Edge



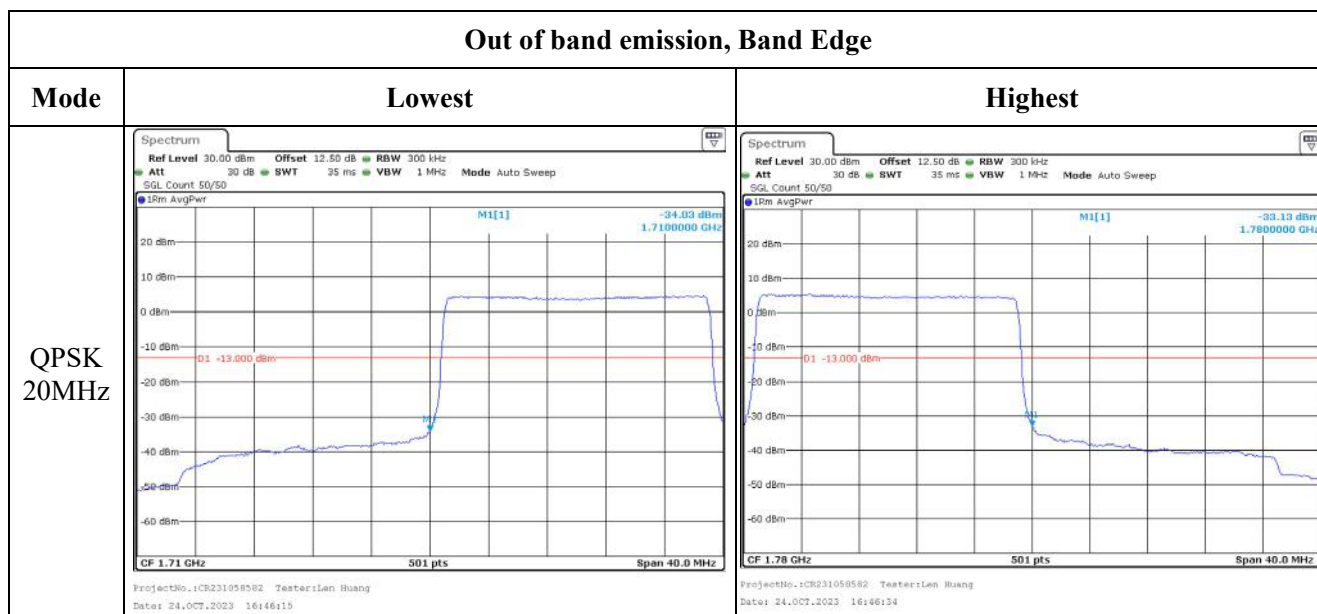
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



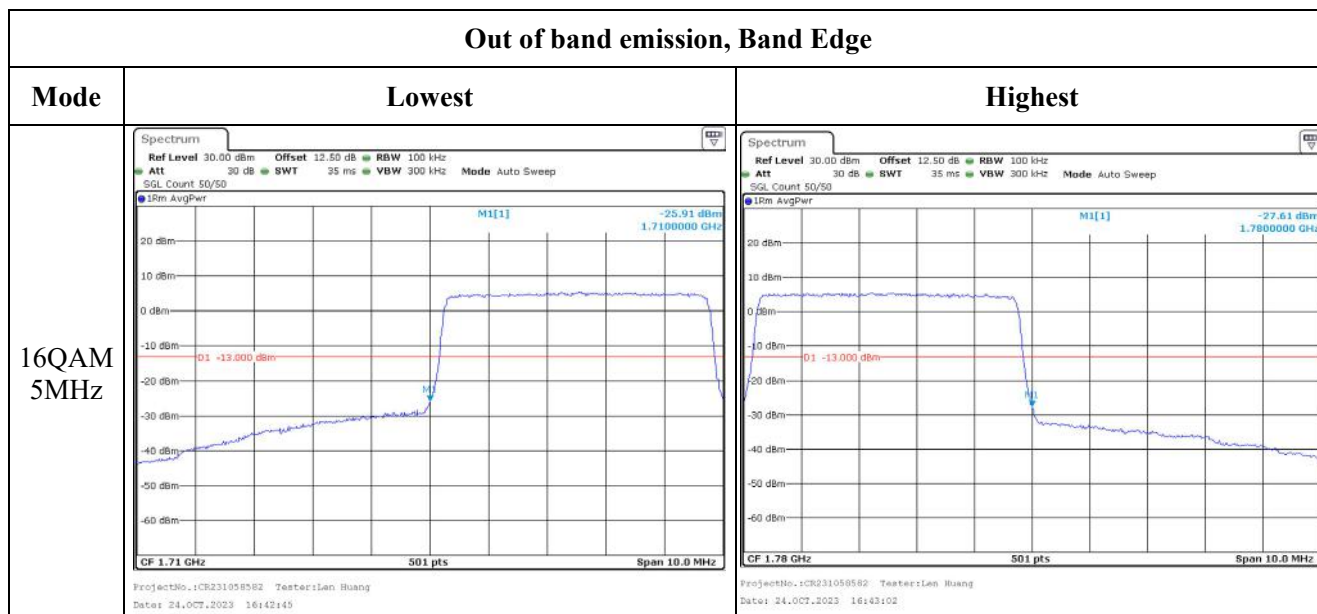
Out of band emission, Band Edge



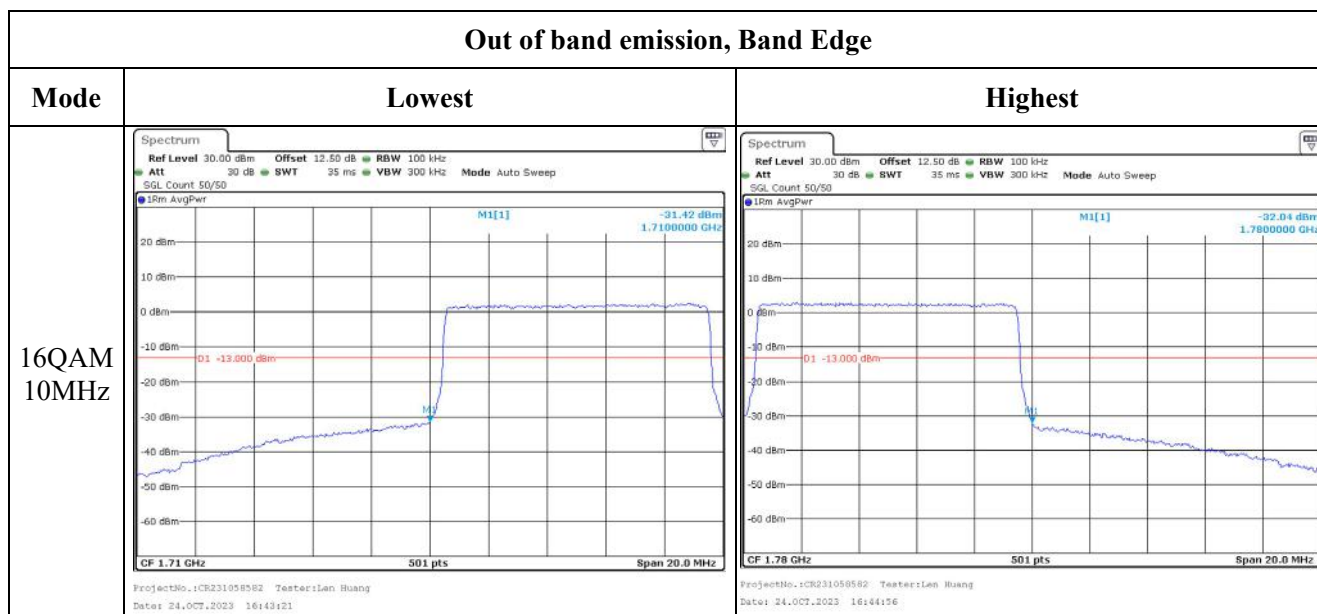
Out of band emission, Band Edge



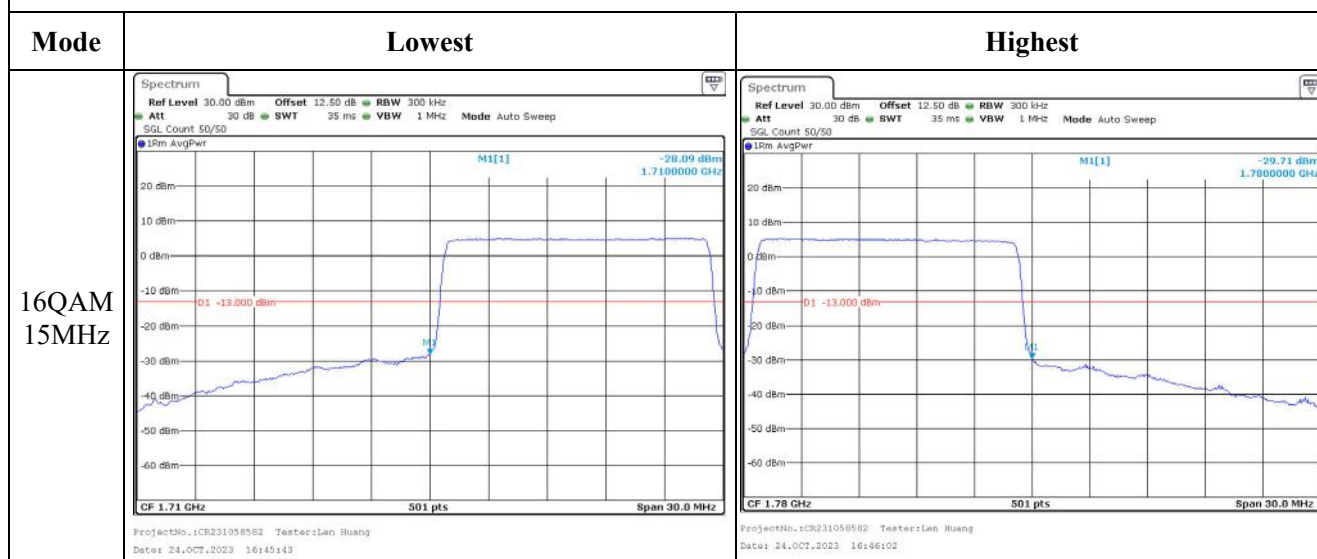
Out of band emission, Band Edge



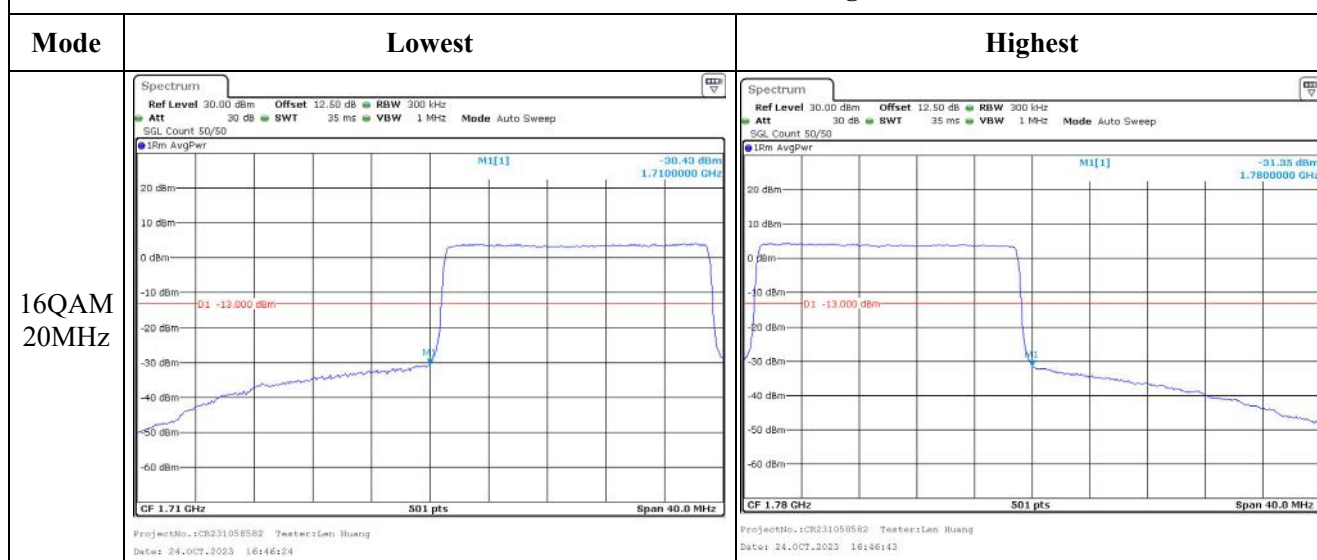
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.17 Radiated Spurious Emissions

Serial Number:	2BZE-4	Test Date:	Below 1GHz: 2023/10/31 Above 1GHz: 2023/11/16
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Carl Xue, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.4~27	Relative Humidity: (%)	62~63	ATM Pressure: (kPa)	101.2~101.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2023/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
Above 1GHz					
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2025/2/23
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/2/5	2024/2/4
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5

*** 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 Data:

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Cellular Band (30MHz-10GHz)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
719.20	H	21.02	-51.91	0.00	0.49	-52.40	-13.00	39.40
724.38	V	20.86	-48.53	0.00	0.51	-49.04	-13.00	36.04
1648.400	H	52.95	-51.38	8.68	0.80	-43.50	-13.00	30.50
1648.400	V	51.63	-52.78	8.68	0.80	-44.90	-13.00	31.90
2472.600	H	63.70	-37.08	9.38	1.00	-28.70	-13.00	15.70
2472.600	V	63.15	-37.58	9.38	1.00	-29.20	-13.00	16.20
3296.800	H	36.51	-60.17	10.32	1.15	-51.00	-13.00	38.00
3296.800	V	36.67	-59.77	10.32	1.15	-50.60	-13.00	37.60
GSM 850 Frequency:836.6MHz								
689.59	H	20.93	-52.45	0.00	0.54	-52.99	-13.00	39.99
709.32	V	20.73	-48.99	0.00	0.52	-49.51	-13.00	36.51
1673.200	H	55.85	-48.46	8.71	0.85	-40.60	-13.00	27.60
1673.200	V	54.65	-49.76	8.71	0.85	-41.90	-13.00	28.90
2509.800	H	60.00	-40.61	9.42	1.01	-32.20	-13.00	19.20
2509.800	V	60.61	-40.01	9.42	1.01	-31.60	-13.00	18.60
3346.400	H	38.79	-58.38	10.34	1.16	-49.20	-13.00	36.20
3346.400	V	38.45	-58.58	10.34	1.16	-49.40	-13.00	36.40
GSM 850 Frequency:848.8MHz								
731.90	H	20.74	-51.94	0.00	0.53	-52.47	-13.00	39.47
697.06	V	20.94	-49.03	0.00	0.55	-49.58	-13.00	36.58
1697.600	H	51.75	-52.54	8.74	0.90	-44.70	-13.00	31.70
1697.600	V	50.48	-53.94	8.74	0.90	-46.10	-13.00	33.10
2546.400	H	62.97	-37.36	9.47	1.01	-28.90	-13.00	15.90
2546.400	V	63.82	-36.46	9.47	1.01	-28.00	-13.00	15.00
3395.200	H	38.12	-59.57	10.36	1.19	-50.40	-13.00	37.40
3395.200	V	38.99	-58.67	10.36	1.19	-49.50	-13.00	36.50

PCS Band (30MHz-20GHz)

1850 Band (GSM 1850)								
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
94.42	H	35.94	-76.80	0.00	0.18	-76.98	-13.00	63.98
87.72	V	41.72	-67.44	0.00	0.17	-67.61	-13.00	54.61
3700.400	H	40.57	-56.75	10.60	1.25	-47.40	-13.00	34.40
3700.400	V	41.05	-56.25	10.60	1.25	-46.90	-13.00	33.90
5550.600	H	37.81	-55.45	11.44	1.49	-45.50	-13.00	32.50
5550.600	V	36.95	-56.15	11.44	1.49	-46.20	-13.00	33.20
GSM 1900 Frequency:1880MHz								
86.20	H	35.70	-76.10	0.00	0.17	-76.27	-13.00	63.27
93.43	V	41.80	-66.74	0.00	0.18	-66.92	-13.00	53.92
3760.000	H	41.59	-54.82	10.66	1.24	-45.40	-13.00	32.40
3760.000	V	41.87	-54.42	10.66	1.24	-45.00	-13.00	32.00
5640.000	H	37.36	-56.09	11.33	1.54	-46.30	-13.00	33.30
5640.000	V	36.54	-56.79	11.33	1.54	-47.00	-13.00	34.00
GSM 1900 Frequency:1909.8MHz								
88.34	H	35.41	-77.08	0.00	0.17	-77.25	-13.00	64.25
85.89	V	41.56	-67.46	0.00	0.17	-67.63	-13.00	54.63
3819.600	H	40.03	-55.83	10.72	1.29	-46.40	-13.00	33.40
3819.600	V	40.49	-55.23	10.72	1.29	-45.80	-13.00	32.80
5729.400	H	37.65	-55.83	11.22	1.59	-46.20	-13.00	33.20
5729.400	V	36.93	-56.43	11.22	1.59	-46.80	-13.00	33.80

WCDMA Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
87.11	H	35.89	-76.20	0.00	0.17	-76.37	-13.00	63.37
93.10	V	41.52	-67.10	0.00	0.18	-67.28	-13.00	54.28
3704.800	H	36.31	-60.95	10.60	1.25	-51.60	-13.00	38.60
3704.800	V	36.58	-60.65	10.60	1.25	-51.30	-13.00	38.30
5557.200	H	42.74	-50.54	11.43	1.49	-40.60	-13.00	27.60
5557.200	V	41.79	-51.34	11.43	1.49	-41.40	-13.00	28.40
WCDMA Band II, Frequency:1880 MHz								
85.59	H	35.36	-76.24	0.00	0.17	-76.41	-13.00	63.41
94.09	V	41.56	-66.83	0.00	0.18	-67.01	-13.00	54.01
3760.000	H	35.89	-60.52	10.66	1.24	-51.10	-13.00	38.10
3760.000	V	35.97	-60.32	10.66	1.24	-50.90	-13.00	37.90
5640.000	H	41.66	-51.79	11.33	1.54	-42.00	-13.00	29.00
5640.000	V	41.04	-52.29	11.33	1.54	-42.50	-13.00	29.50
WCDMA Band II, Frequency:1907.6MHz								
86.50	H	35.43	-76.46	0.00	0.17	-76.63	-13.00	63.63
87.72	V	41.83	-67.33	0.00	0.17	-67.50	-13.00	54.50
3815.200	H	34.92	-60.93	10.72	1.29	-51.50	-13.00	38.50
3815.200	V	36.36	-59.33	10.72	1.29	-49.90	-13.00	36.90
5722.800	H	44.84	-48.65	11.23	1.58	-39.00	-13.00	26.00
5722.800	V	43.80	-49.55	11.23	1.58	-39.90	-13.00	26.90

WCDMA Band 4(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:			1712.4	MHz				
86.20	H	35.60	-76.20	0.00	0.17	-76.37	-13.00	63.37
94.42	V	41.67	-66.64	0.00	0.18	-66.82	-13.00	53.82
3424.800	H	36.67	-61.10	10.37	1.17	-51.90	-13.00	38.90
3424.800	V	37.14	-60.60	10.37	1.17	-51.40	-13.00	38.40
5137.200	H	35.00	-58.62	11.28	1.46	-48.80	-13.00	35.80
5137.200	V	35.48	-58.02	11.28	1.46	-48.20	-13.00	35.20
Frequency:			1732.6	MHz				
86.50	H	35.62	-76.27	0.00	0.17	-76.44	-13.00	63.44
93.76	V	41.56	-66.91	0.00	0.18	-67.09	-13.00	54.09
3465.200	H	35.97	-61.84	10.39	1.15	-52.60	-13.00	39.60
3465.200	V	36.13	-61.64	10.39	1.15	-52.40	-13.00	39.40
5197.800	H	40.25	-53.88	11.32	1.44	-44.00	-13.00	31.00
5197.800	V	39.50	-54.48	11.32	1.44	-44.60	-13.00	31.60
Frequency:			1752.6	MHz				
85.29	H	35.74	-75.76	0.00	0.17	-75.93	-13.00	62.93
87.41	V	41.39	-67.75	0.00	0.17	-67.92	-13.00	54.92
3505.200	H	36.90	-60.93	10.41	1.18	-51.70	-13.00	38.70
3505.200	V	36.34	-61.43	10.41	1.18	-52.20	-13.00	39.20
5257.800	H	35.65	-58.08	11.35	1.47	-48.20	-13.00	35.20
5257.800	V	36.13	-57.38	11.35	1.47	-47.50	-13.00	34.50

WCDMA Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
656.77	H	20.83	-52.72	0.00	0.52	-53.24	-13.00	40.24
729.33	V	20.87	-48.41	0.00	0.53	-48.94	-13.00	35.94
1652.800	H	41.46	-62.87	8.68	0.81	-55.00	-13.00	42.00
1652.800	V	41.64	-62.77	8.68	0.81	-54.90	-13.00	41.90
2479.200	H	38.58	-62.18	9.39	1.01	-53.80	-13.00	40.80
2479.200	V	39.55	-61.18	9.39	1.01	-52.80	-13.00	39.80
3305.600	H	34.46	-62.27	10.32	1.15	-53.10	-13.00	40.10
3305.600	V	34.83	-61.67	10.32	1.15	-52.50	-13.00	39.50
WCDMA Band 5 Frequency:836.6MHz								
716.89	H	20.90	-52.08	0.00	0.50	-52.58	-13.00	39.58
682.36	V	20.72	-49.52	0.00	0.52	-50.04	-13.00	37.04
1673.200	H	41.45	-62.86	8.71	0.85	-55.00	-13.00	42.00
1673.200	V	41.25	-63.16	8.71	0.85	-55.30	-13.00	42.30
2509.800	H	40.70	-59.91	9.42	1.01	-51.50	-13.00	38.50
2509.800	V	41.81	-58.81	9.42	1.01	-50.40	-13.00	37.40
3346.400	H	34.59	-62.58	10.34	1.16	-53.40	-13.00	40.40
3346.400	V	33.95	-63.08	10.34	1.16	-53.90	-13.00	40.90
WCDMA Band 5 Frequency:846.6MHz								
701.98	H	20.76	-52.52	0.00	0.55	-53.07	-13.00	40.07
574.74	V	20.79	-50.90	0.00	0.46	-51.36	-13.00	38.36
1693.200	H	44.26	-60.04	8.73	0.89	-52.20	-13.00	39.20
1693.200	V	42.68	-61.74	8.73	0.89	-53.90	-13.00	40.90
2539.800	H	38.03	-62.35	9.46	1.01	-53.90	-13.00	40.90
2539.800	V	38.39	-61.95	9.46	1.01	-53.50	-13.00	40.50
3386.400	H	36.12	-61.47	10.35	1.18	-52.30	-13.00	39.30
3386.400	V	35.27	-62.27	10.35	1.18	-53.10	-13.00	40.10

LTE Bands:

(The Worst modulation and bandwidth was below)

LTE Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 1.4MHz, Frequency:1850.7 MHz								
91.81	H	36.08	-76.83	0.00	0.18	-77.01	-13.00	64.01
85.29	V	43.11	-65.87	0.00	0.17	-66.04	-13.00	53.04
3701.400	H	35.96	-61.35	10.60	1.25	-52.00	-13.00	39.00
3701.400	V	35.54	-61.75	10.60	1.25	-52.40	-13.00	39.40
5552.100	H	48.12	-45.15	11.44	1.49	-35.20	-13.00	22.20
5552.100	V	47.65	-45.45	11.44	1.49	-35.50	-13.00	22.50
QPSK, 1.4MHz,Frequency:1880 MHz								
85.59	H	35.60	-76.00	0.00	0.17	-76.17	-13.00	63.17
85.89	V	42.76	-66.26	0.00	0.17	-66.43	-13.00	53.43
3760.000	H	35.89	-60.52	10.66	1.24	-51.10	-13.00	38.10
3760.000	V	35.47	-60.82	10.66	1.24	-51.40	-13.00	38.40
5640.000	H	49.66	-43.79	11.33	1.54	-34.00	-13.00	21.00
5640.000	V	47.74	-45.59	11.33	1.54	-35.80	-13.00	22.80
QPSK, 1.4MHz,Frequency:1909.3 MHz								
86.80	H	35.77	-76.22	0.00	0.17	-76.39	-13.00	63.39
92.13	V	42.91	-65.93	0.00	0.18	-66.11	-13.00	53.11
3818.600	H	35.63	-60.23	10.72	1.29	-50.80	-13.00	37.80
3818.600	V	35.88	-59.83	10.72	1.29	-50.40	-13.00	37.40
5727.900	H	48.84	-44.64	11.23	1.59	-35.00	-13.00	22.00
5727.900	V	48.42	-44.94	11.23	1.59	-35.30	-13.00	22.30

LTE Band 4(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
85.90	H	35.52	-76.18	0.00	0.17	-76.35	-13.00	63.35
91.48	V	42.80	-66.19	0.00	0.18	-66.37	-13.00	53.37
3421.400	H	36.46	-61.30	10.37	1.17	-52.10	-13.00	39.10
3421.400	V	36.93	-60.80	10.37	1.17	-51.60	-13.00	38.60
5132.100	H	40.56	-53.01	11.28	1.47	-43.20	-13.00	30.20
5132.100	V	42.15	-51.31	11.28	1.47	-41.50	-13.00	28.50
1.4MHz QPSK, Frequency: 1732.5 MHz								
86.81	H	35.25	-76.74	0.00	0.17	-76.91	-13.00	63.91
91.81	V	42.82	-66.09	0.00	0.18	-66.27	-13.00	53.27
3465.000	H	36.37	-61.44	10.39	1.15	-52.20	-13.00	39.20
3465.000	V	36.23	-61.54	10.39	1.15	-52.30	-13.00	39.30
5197.500	H	41.45	-52.68	11.32	1.44	-42.80	-13.00	29.80
5197.500	V	41.90	-52.08	11.32	1.44	-42.20	-13.00	29.20
1.4MHz QPSK, Frequency: 1754.3 MHz								
91.49	H	35.35	-77.58	0.00	0.18	-77.76	-13.00	64.76
85.29	V	43.03	-65.95	0.00	0.17	-66.12	-13.00	53.12
3508.600	H	36.70	-61.12	10.41	1.19	-51.90	-13.00	38.90
3508.600	V	36.44	-61.32	10.41	1.19	-52.10	-13.00	39.10
5262.900	H	43.51	-50.19	11.36	1.47	-40.30	-13.00	27.30
5262.900	V	43.08	-50.39	11.36	1.47	-40.50	-13.00	27.50

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 1.4MHz, Frequency: 824.7 MHz								
677.63	H	20.60	-52.84	0.00	0.51	-53.35	-13.00	40.35
624.48	V	20.69	-50.60	0.00	0.48	-51.08	-13.00	38.08
1649.400	H	50.85	-53.48	8.68	0.80	-45.60	-13.00	32.60
1649.400	V	49.43	-54.98	8.68	0.80	-47.10	-13.00	34.10
2474.100	H	47.50	-53.28	9.38	1.00	-44.90	-13.00	31.90
2474.100	V	48.15	-52.58	9.38	1.00	-44.20	-13.00	31.20
3298.800	H	34.51	-62.17	10.32	1.15	-53.00	-13.00	40.00
3298.800	V	34.87	-61.57	10.32	1.15	-52.40	-13.00	39.40
QPSK, 1.4MHz, Frequency: 836.5 MHz								
492.66	H	20.71	-55.27	0.00	0.45	-55.72	-13.00	42.72
728.84	V	20.75	-48.54	0.00	0.53	-49.07	-13.00	36.07
1673.000	H	52.25	-52.06	8.71	0.85	-44.20	-13.00	31.20
1673.000	V	50.75	-53.66	8.71	0.85	-45.80	-13.00	32.80
2509.500	H	45.70	-54.91	9.42	1.01	-46.50	-13.00	33.50
2509.500	V	46.71	-53.91	9.42	1.01	-45.50	-13.00	32.50
3346.000	H	34.88	-62.28	10.34	1.16	-53.10	-13.00	40.10
3346.000	V	35.24	-61.78	10.34	1.16	-52.60	-13.00	39.60
QPSK, 1.4MHz, Frequency: 848.3 MHz								
711.69	H	20.95	-52.13	0.00	0.51	-52.64	-13.00	39.64
696.39	V	20.83	-49.16	0.00	0.55	-49.71	-13.00	36.71
1696.600	H	52.64	-51.65	8.74	0.89	-43.80	-13.00	30.80
1696.600	V	50.87	-53.55	8.74	0.89	-45.70	-13.00	32.70
2544.900	H	49.28	-51.06	9.47	1.01	-42.60	-13.00	29.60
2544.900	V	50.74	-49.56	9.47	1.01	-41.10	-13.00	28.10
3393.200	H	35.00	-62.67	10.36	1.19	-53.50	-13.00	40.50
3393.200	V	35.76	-61.87	10.36	1.19	-52.70	-13.00	39.70

LTE Band 7(30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2502.5 MHz								
86.50	H	36.10	-75.79	0.00	0.17	-75.96	-25.00	50.96
91.16	V	42.73	-66.33	0.00	0.18	-66.51	-25.00	41.51
5005.000	H	34.23	-58.73	11.20	1.47	-49.00	-25.00	24.00
5005.000	V	35.09	-57.73	11.20	1.47	-48.00	-25.00	23.00
7507.500	H	38.64	-51.15	10.90	1.95	-42.20	-25.00	17.20
7507.500	V	38.74	-51.55	10.90	1.95	-42.60	-25.00	17.60
5MHz QPSK, Frequency: 2535 MHz								
94.42	H	35.36	-77.38	0.00	0.18	-77.56	-25.00	52.56
85.89	V	42.66	-66.36	0.00	0.17	-66.53	-25.00	41.53
5070.000	H	35.22	-57.97	11.24	1.47	-48.20	-25.00	23.20
5070.000	V	34.52	-58.57	11.24	1.47	-48.80	-25.00	23.80
7605.000	H	39.10	-50.37	10.88	2.01	-41.50	-25.00	16.50
7605.000	V	38.32	-51.87	10.88	2.01	-43.00	-25.00	18.00
5MHz QPSK, Frequency: 2567.5 MHz								
89.27	H	35.77	-77.02	0.00	0.18	-77.20	-25.00	52.20
90.85	V	42.54	-66.59	0.00	0.18	-66.77	-25.00	41.77
5135.000	H	35.09	-58.51	11.28	1.47	-48.70	-25.00	23.70
5135.000	V	36.58	-56.91	11.28	1.47	-47.10	-25.00	22.10
7702.500	H	44.03	-45.49	10.86	1.97	-36.60	-25.00	11.60
7702.500	V	44.39	-45.79	10.86	1.97	-36.90	-25.00	11.90

LTE Band 12:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 699.7 MHz								
432.70	H	20.58	-56.62	0.00	0.41	-57.03	-13.00	44.03
566.75	V	20.62	-51.06	0.00	0.46	-51.52	-13.00	38.52
1399.400	H	42.99	-60.71	8.22	0.71	-53.20	-13.00	40.20
1399.400	V	40.84	-62.91	8.22	0.71	-55.40	-13.00	42.40
2099.100	H	40.83	-61.05	9.16	0.91	-52.80	-13.00	39.80
2099.100	V	38.98	-62.85	9.16	0.91	-54.60	-13.00	41.60
2798.800	H	37.09	-62.84	9.88	1.04	-54.00	-13.00	41.00
2798.800	V	38.06	-61.74	9.88	1.04	-52.90	-13.00	39.90
1.4MHz QPSK, Frequency: 707.5 MHz								
513.73	H	20.63	-54.93	0.00	0.44	-55.37	-13.00	42.37
452.93	V	20.54	-52.91	0.00	0.42	-53.33	-13.00	40.33
1415.000	H	43.73	-59.94	8.26	0.72	-52.40	-13.00	39.40
1415.000	V	42.48	-61.24	8.26	0.72	-53.70	-13.00	40.70
2122.500	H	44.14	-57.85	9.17	0.92	-49.60	-13.00	36.60
2122.500	V	42.82	-59.15	9.17	0.92	-50.90	-13.00	37.90
2830.000	H	39.73	-60.07	9.93	1.06	-51.20	-13.00	38.20
2830.000	V	39.96	-59.77	9.93	1.06	-50.90	-13.00	37.90
1.4MHz QPSK, Frequency: 715.3 MHz								
627.27	H	20.67	-53.04	0.00	0.48	-53.52	-13.00	40.52
601.89	V	20.62	-51.08	0.00	0.51	-51.59	-13.00	38.59
1430.600	H	46.05	-57.58	8.31	0.73	-50.00	-13.00	37.00
1430.600	V	44.71	-58.98	8.31	0.73	-51.40	-13.00	38.40
2145.900	H	47.94	-54.16	9.19	0.93	-45.90	-13.00	32.90
2145.900	V	46.85	-55.26	9.19	0.93	-47.00	-13.00	34.00
2861.200	H	40.44	-59.21	9.98	1.07	-50.30	-13.00	37.30
2861.200	V	41.96	-57.71	9.98	1.07	-48.80	-13.00	35.80

LTE Band 17:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 706.5 MHz								
220.75	H	20.59	-60.53	0.00	0.27	-60.80	-13.00	47.80
326.99	V	20.50	-56.52	0.00	0.34	-56.86	-13.00	43.86
1413.000	H	43.53	-60.14	8.26	0.72	-52.60	-13.00	39.60
1413.000	V	41.58	-62.14	8.26	0.72	-54.60	-13.00	41.60
2119.500	H	47.52	-54.45	9.17	0.92	-46.20	-13.00	33.20
2119.500	V	45.80	-56.15	9.17	0.92	-47.90	-13.00	34.90
2826.000	H	39.55	-60.26	9.92	1.06	-51.40	-13.00	38.40
2826.000	V	40.18	-59.56	9.92	1.06	-50.70	-13.00	37.70
5MHz QPSK, Frequency: 710 MHz								
441.89	H	20.47	-56.55	0.00	0.42	-56.97	-13.00	43.97
451.34	V	20.58	-52.93	0.00	0.43	-53.36	-13.00	40.36
1420.000	H	43.21	-60.45	8.28	0.73	-52.90	-13.00	39.90
1420.000	V	41.56	-62.15	8.28	0.73	-54.60	-13.00	41.60
2130.000	H	49.46	-52.56	9.18	0.92	-44.30	-13.00	31.30
2130.000	V	47.55	-54.46	9.18	0.92	-46.20	-13.00	33.20
2840.000	H	37.97	-61.78	9.94	1.06	-52.90	-13.00	39.90
2840.000	V	39.33	-60.38	9.94	1.06	-51.50	-13.00	38.50
5MHz QPSK, Frequency: 713.5 MHz								
367.02	H	20.49	-57.88	0.00	0.37	-58.25	-13.00	45.25
524.72	V	20.63	-50.99	0.00	0.42	-51.41	-13.00	38.41
1427.000	H	42.47	-61.17	8.30	0.73	-53.60	-13.00	40.60
1427.000	V	41.62	-62.07	8.30	0.73	-54.50	-13.00	41.50
2140.500	H	51.52	-50.55	9.18	0.93	-42.30	-13.00	29.30
2140.500	V	49.63	-52.45	9.18	0.93	-44.20	-13.00	31.20
2854.000	H	37.89	-61.80	9.97	1.07	-52.90	-13.00	39.90
2854.000	V	39.08	-60.60	9.97	1.07	-51.70	-13.00	38.70

LTE Band 26:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 814.7 MHz								
694.41	H	20.65	-52.70	0.00	0.55	-53.25	-13.00	40.25
714.18	V	20.89	-48.72	0.00	0.50	-49.22	-13.00	36.22
1629.400	H	54.00	-50.35	8.66	0.81	-42.50	-13.00	29.50
1629.400	V	53.96	-50.45	8.66	0.81	-42.60	-13.00	29.60
2444.100	H	60.12	-40.77	9.37	1.00	-32.40	-13.00	19.40
2444.100	V	60.48	-40.27	9.37	1.00	-31.90	-13.00	18.90
3258.800	H	34.33	-62.53	10.30	1.17	-53.40	-13.00	40.40
3258.800	V	35.48	-61.13	10.30	1.17	-52.00	-13.00	39.00
1.4MHz QPSK, Frequency: 831.5 MHz								
560.81	H	20.76	-53.87	0.00	0.47	-54.34	-13.00	41.34
692.01	V	20.61	-49.45	0.00	0.54	-49.99	-13.00	36.99
1663.000	H	53.45	-50.87	8.70	0.83	-43.00	-13.00	30.00
1663.000	V	54.24	-50.17	8.70	0.83	-42.30	-13.00	29.30
2494.500	H	60.71	-39.99	9.40	1.01	-31.60	-13.00	18.60
2494.500	V	62.32	-38.39	9.40	1.01	-30.00	-13.00	17.00
3326.000	H	34.78	-62.17	10.33	1.16	-53.00	-13.00	40.00
3326.000	V	35.80	-60.97	10.33	1.16	-51.80	-13.00	38.80
1.4MHz QPSK, Frequency: 848.3 MHz								
595.22	H	20.66	-53.29	0.00	0.51	-53.80	-13.00	40.80
672.89	V	20.72	-49.69	0.00	0.50	-50.19	-13.00	37.19
1696.600	H	54.84	-49.45	8.74	0.89	-41.60	-13.00	28.60
1696.600	V	54.07	-50.35	8.74	0.89	-42.50	-13.00	29.50
2544.900	H	58.78	-41.56	9.47	1.01	-33.10	-13.00	20.10
2544.900	V	58.74	-41.56	9.47	1.01	-33.10	-13.00	20.10
3393.200	H	35.10	-62.57	10.36	1.19	-53.40	-13.00	40.40
3393.200	V	35.46	-62.17	10.36	1.19	-53.00	-13.00	40.00

LTE Band 38 (30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2572.5 MHz								
99.18	H	35.76	-76.66	0.00	0.19	-76.85	-25.00	51.85
84.99	V	42.64	-66.31	0.00	0.17	-66.48	-25.00	41.48
5145.000	H	35.53	-58.15	11.29	1.44	-48.30	-25.00	23.30
5145.000	V	36.92	-56.65	11.29	1.44	-46.80	-25.00	21.80
7717.500	H	46.64	-42.87	10.86	1.99	-34.00	-25.00	9.00
7717.500	V	45.96	-44.17	10.86	1.99	-35.30	-25.00	10.30
5MHz QPSK, Frequency: 2595 MHz								
85.91	H	35.58	-76.12	0.00	0.17	-76.29	-25.00	51.29
84.11	V	42.52	-66.37	0.00	0.17	-66.54	-25.00	41.54
5190.000	H	36.60	-57.47	11.31	1.44	-47.60	-25.00	22.60
5190.000	V	37.95	-55.97	11.31	1.44	-46.10	-25.00	21.10
7785.000	H	47.04	-42.45	10.84	1.99	-33.60	-25.00	8.60
7785.000	V	45.97	-43.95	10.84	1.99	-35.10	-25.00	10.10
5MHz QPSK, Frequency: 2617.5 MHz								
87.42	H	35.38	-76.81	0.00	0.17	-76.98	-25.00	51.98
92.13	V	42.69	-66.15	0.00	0.18	-66.33	-25.00	41.33
5235.000	H	35.62	-58.28	11.34	1.46	-48.40	-25.00	23.40
5235.000	V	36.03	-57.68	11.34	1.46	-47.80	-25.00	22.80
7852.500	H	45.89	-43.30	10.83	2.03	-34.50	-25.00	9.50
7852.500	V	45.18	-44.40	10.83	2.03	-35.60	-25.00	10.60

LTE Band 40 Lower (30MHz-25GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency:			2307.5	MHz				
93.76	H	35.41	-77.37	0.00	0.18	-77.55	-40.00	37.55
84.70	V	42.08	-66.85	0.00	0.17	-67.02	-40.00	27.02
4615.000	H	37.03	-58.33	10.74	1.41	-49.00	-40.00	9.00
4615.000	V	37.29	-57.93	10.74	1.41	-48.60	-40.00	8.60
6922.500	H	36.68	-54.34	11.22	1.88	-45.00	-40.00	5.00
6922.500	V	36.55	-54.34	11.22	1.88	-45.00	-40.00	5.00
5MHz QPSK, Frequency:			2312.5	MHz				
91.81	H	35.48	-77.43	0.00	0.18	-77.61	-40.00	37.61
83.23	V	42.17	-66.65	0.00	0.17	-66.82	-40.00	26.82
4625.000	H	36.65	-58.64	10.75	1.41	-49.30	-40.00	9.30
4625.000	V	37.23	-57.94	10.75	1.41	-48.60	-40.00	8.60
6937.500	H	36.57	-54.41	11.21	1.90	-45.10	-40.00	5.10
6937.500	V	36.43	-54.41	11.21	1.90	-45.10	-40.00	5.10

LTE Band 40 Upper (30MHz-25GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2352.5 MHz								
87.42	H	35.05	-77.14	0.00	0.17	-77.31	-40.00	37.31
91.48	V	42.35	-66.64	0.00	0.18	-66.82	-40.00	26.82
4705.000	H	36.24	-58.54	10.85	1.41	-49.10	-40.00	9.10
4705.000	V	36.86	-57.94	10.85	1.41	-48.50	-40.00	8.50
7057.500	H	36.46	-53.55	11.17	1.92	-44.30	-40.00	4.30
7057.500	V	36.45	-53.45	11.17	1.92	-44.20	-40.00	4.20
5MHz QPSK, Frequency: 2357.5 MHz								
85.32	H	34.90	-76.61	0.00	0.17	-76.78	-40.00	36.78
84.11	V	42.47	-66.42	0.00	0.17	-66.59	-40.00	26.59
4715.000	H	35.86	-58.85	10.86	1.41	-49.40	-40.00	9.40
4715.000	V	36.76	-57.95	10.86	1.41	-48.50	-40.00	8.50
7072.500	H	36.15	-53.65	11.16	1.91	-44.40	-40.00	4.40
7072.500	V	36.46	-53.25	11.16	1.91	-44.00	-40.00	4.00

LTE Band 41 (30MHz-27GHz):

LTE Band 4 (E-UTRA FDD)								
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 5MHz, Frequency: 2537.5 MHz								
87.11	H	35.27	-76.82	0.00	0.17	-76.99	-25.00	51.99
88.96	V	41.88	-67.37	0.00	0.18	-67.55	-25.00	42.55
4997.000	H	35.84	-57.10	11.20	1.48	-47.38	-25.00	22.38
4997.000	V	35.44	-57.36	11.20	1.48	-47.64	-25.00	22.64
7495.500	H	43.12	-46.67	10.90	1.94	-37.71	-25.00	12.71
7495.500	V	42.33	-47.96	10.90	1.94	-39.00	-25.00	14.00
QPSK, 5MHz, Frequency: 2595 MHz								
89.90	H	35.16	-77.84	0.00	0.18	-78.02	-25.00	53.02
87.41	V	41.85	-67.29	0.00	0.17	-67.46	-25.00	42.46
5186.000	H	36.10	-57.93	11.31	1.44	-48.06	-25.00	23.06
5186.000	V	36.45	-57.44	11.31	1.44	-47.57	-25.00	22.57
7779.000	H	40.84	-48.65	10.84	1.99	-39.80	-25.00	14.80
7779.000	V	40.57	-49.37	10.84	1.99	-40.52	-25.00	15.52
QPSK, 5MHz, Frequency: 2652.5 MHz								
93.10	H	34.76	-78.07	0.00	0.18	-78.25	-25.00	53.25
81.21	V	42.15	-66.52	0.00	0.16	-66.68	-25.00	41.68
5375.000	H	36.62	-56.89	11.43	1.49	-46.95	-25.00	21.95
5375.000	V	35.26	-58.24	11.43	1.49	-48.30	-25.00	23.30
8062.500	H	47.40	-40.82	10.81	2.12	-32.13	-25.00	7.13
8062.500	V	48.45	-40.27	10.81	2.12	-31.58	-25.00	6.58

LTE Band 66:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
86.80	H	35.05	-76.94	0.00	0.17	-77.11	-13.00	64.11
80.92	V	41.65	-67.00	0.00	0.16	-67.16	-13.00	54.16
3421.400	H	36.36	-61.40	10.37	1.17	-52.20	-13.00	39.20
3421.400	V	36.93	-60.80	10.37	1.17	-51.60	-13.00	38.60
5132.100	H	41.36	-52.21	11.28	1.47	-42.40	-13.00	29.40
5132.100	V	42.25	-51.21	11.28	1.47	-41.40	-13.00	28.40
1.4MHz QPSK, Frequency: 1745 MHz								
94.09	H	35.33	-77.43	0.00	0.18	-77.61	-13.00	64.61
93.10	V	42.03	-66.59	0.00	0.18	-66.77	-13.00	53.77
3490.000	H	36.31	-61.53	10.40	1.17	-52.30	-13.00	39.30
3490.000	V	37.15	-60.63	10.40	1.17	-51.40	-13.00	38.40
5235.000	H	39.52	-54.38	11.34	1.46	-44.50	-13.00	31.50
5235.000	V	40.83	-52.88	11.34	1.46	-43.00	-13.00	30.00
1.4MHz QPSK, Frequency: 1779.3 MHz								
91.18	H	34.84	-78.11	0.00	0.18	-78.29	-13.00	65.29
86.49	V	41.93	-67.14	0.00	0.17	-67.31	-13.00	54.31
3558.600	H	36.43	-61.24	10.46	1.22	-52.00	-13.00	39.00
3558.600	V	36.53	-61.04	10.46	1.22	-51.80	-13.00	38.80
5337.900	H	44.84	-48.63	11.40	1.47	-38.70	-13.00	25.70
5337.900	V	45.50	-47.83	11.40	1.47	-37.90	-13.00	24.90

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

5. EUT PHOTOGRAPHS

Please refer to the attachment CR231058582-EXP EUT EXTERNAL PHOTOGRAPHS and
CR231058582-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231058582-00E-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT =====