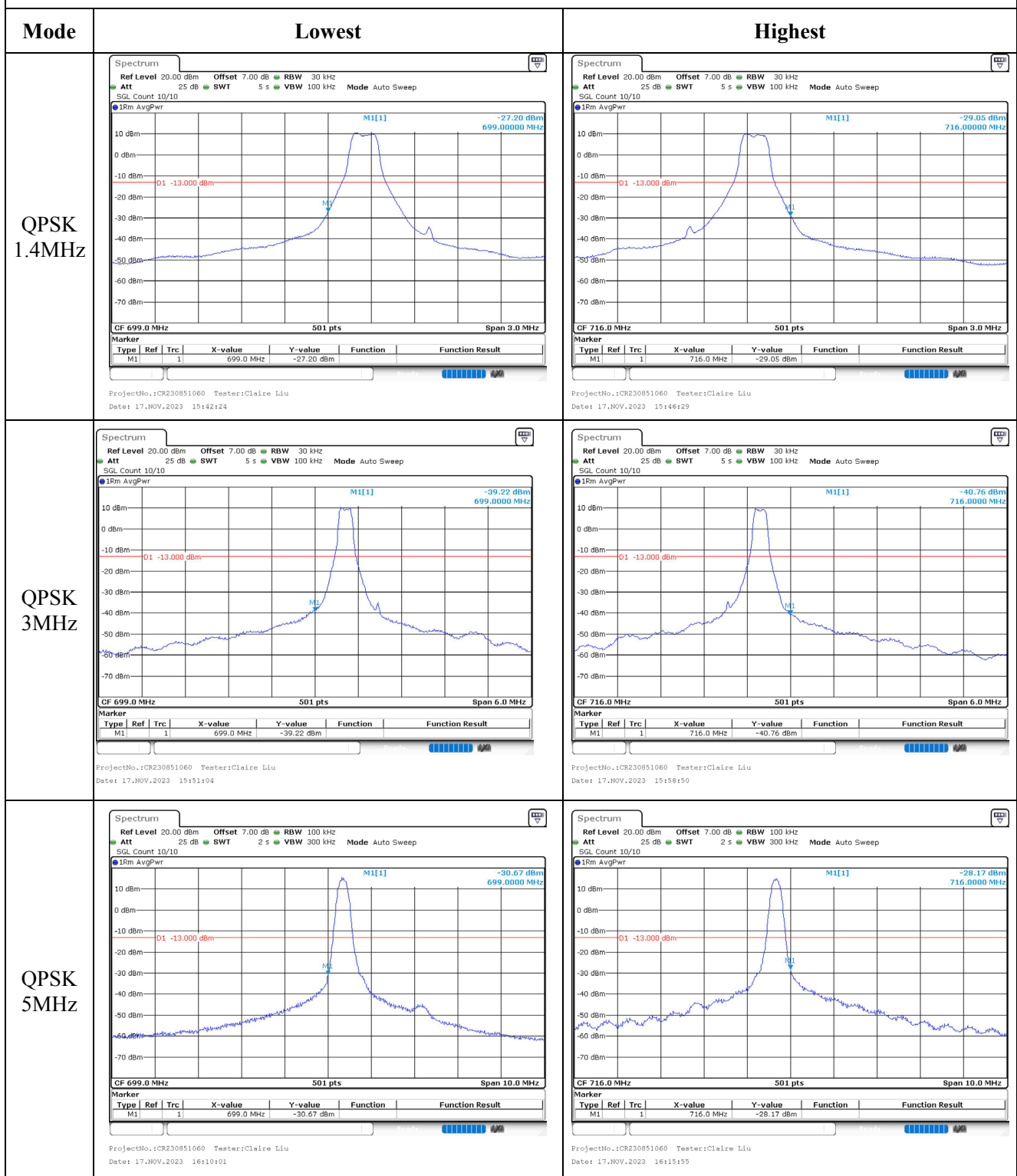
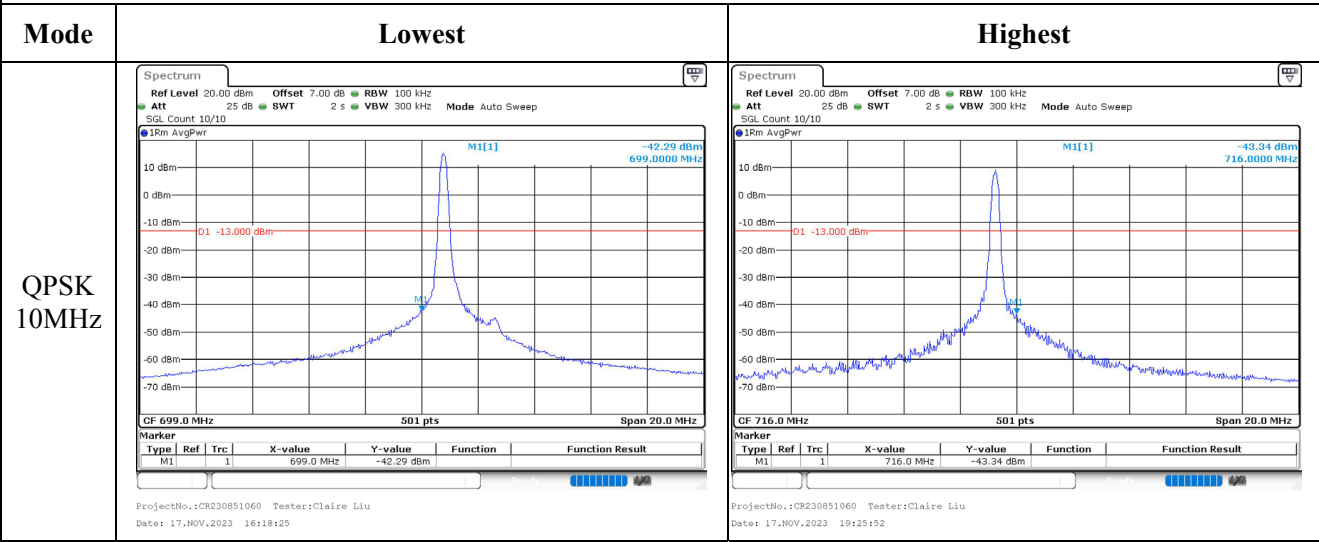


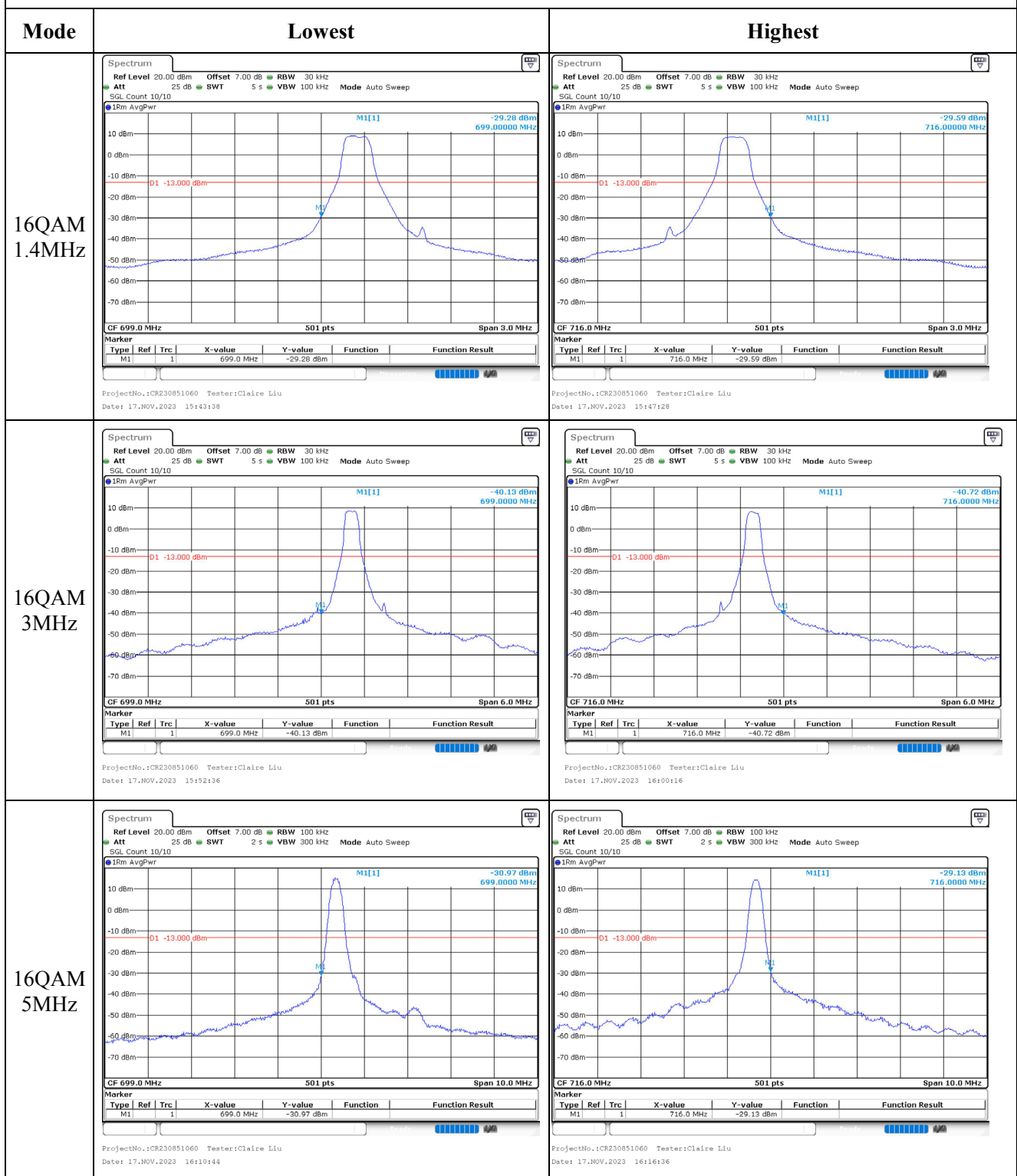
RB1 Out of band emission, Band Edge



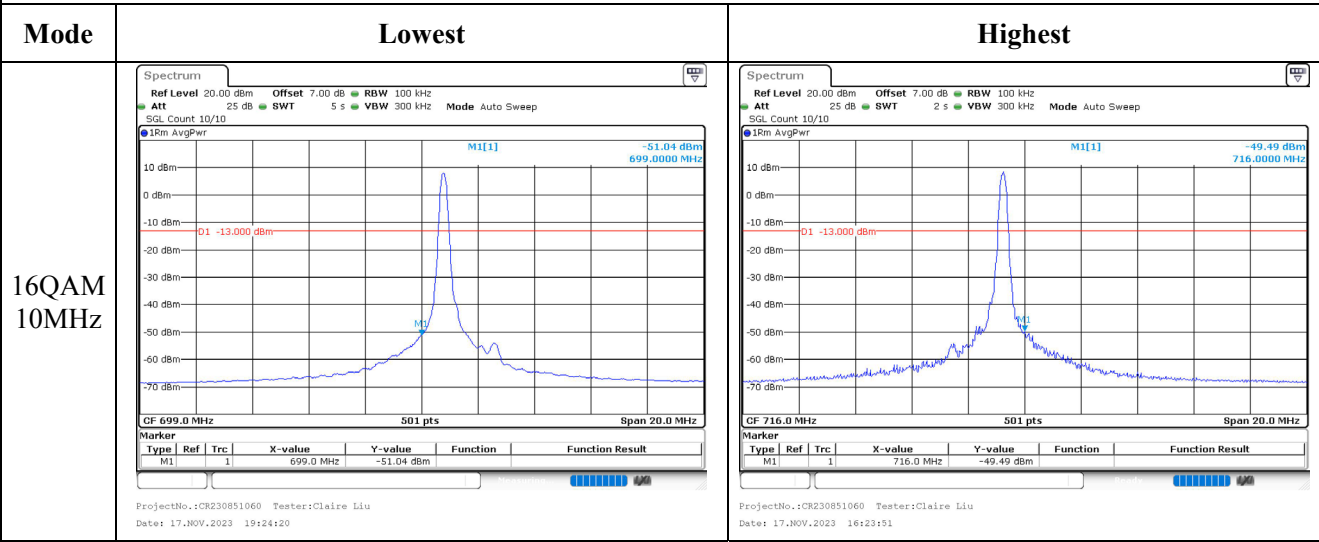
RB1 Out of band emission, Band Edge



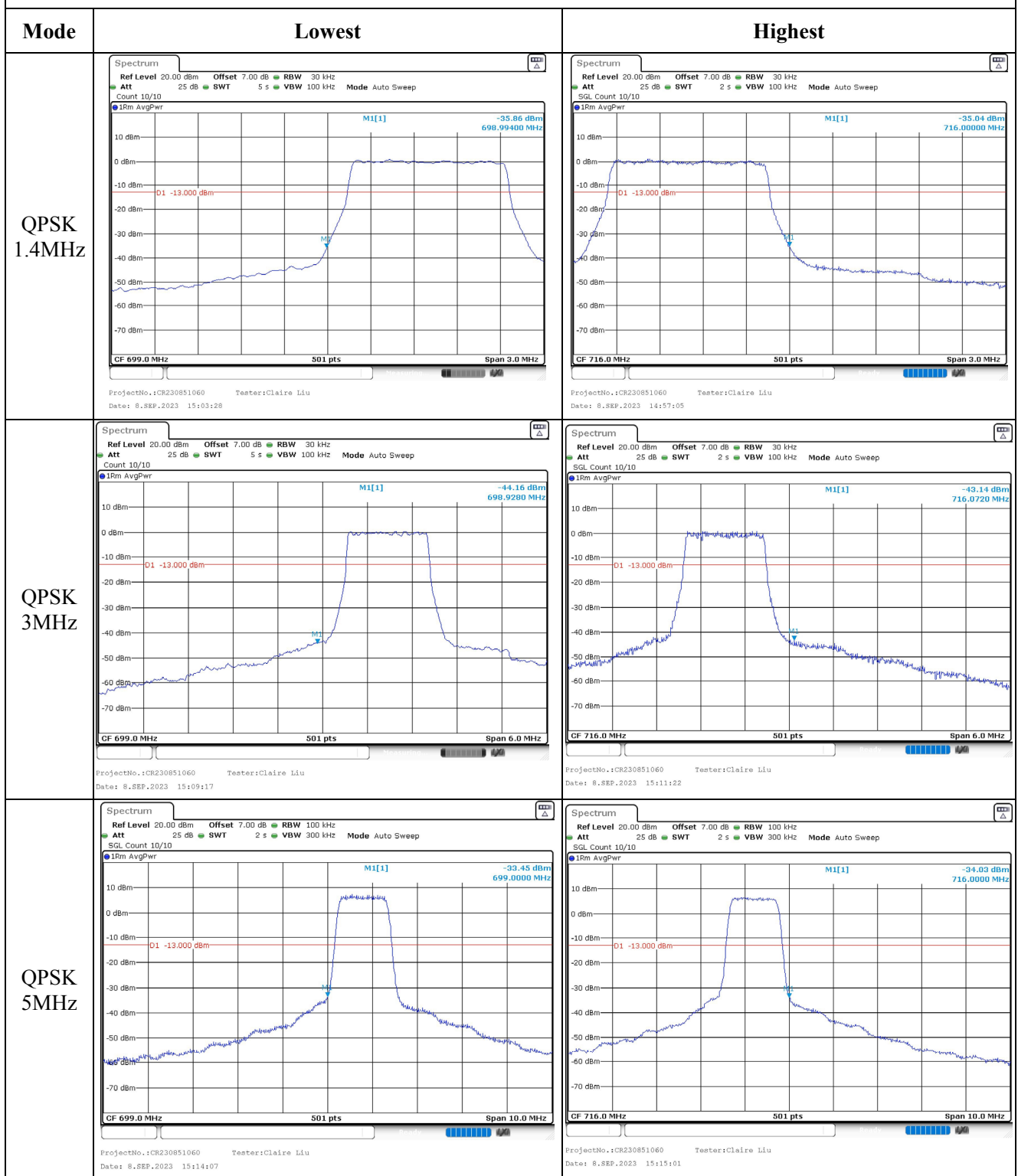
RB1 Out of band emission, Band Edge



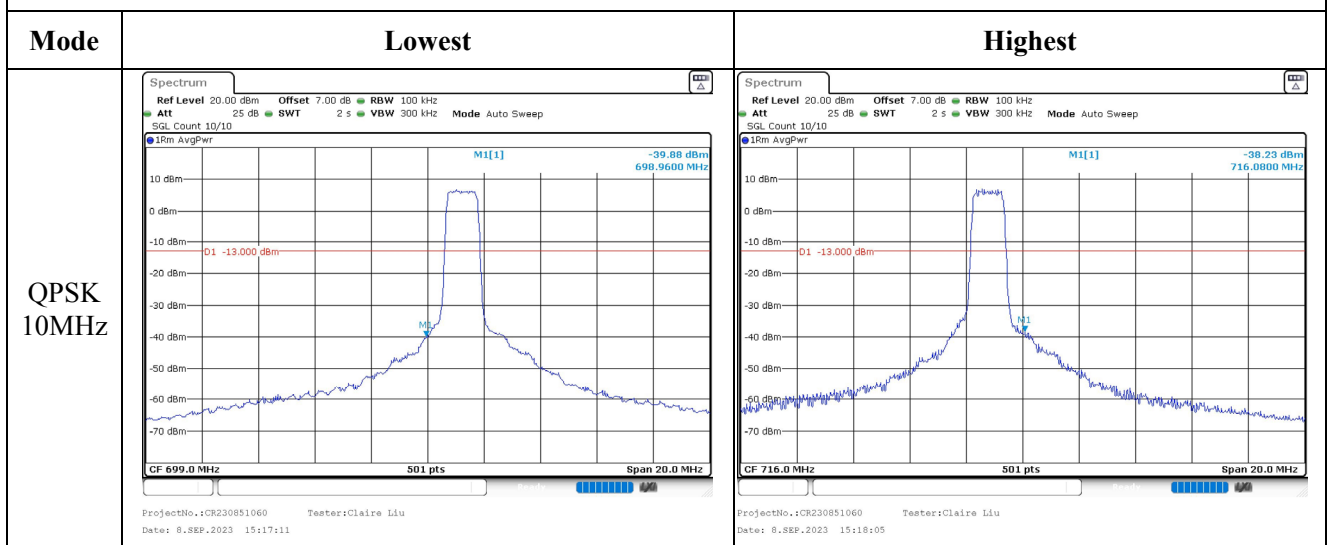
RB1 Out of band emission, Band Edge



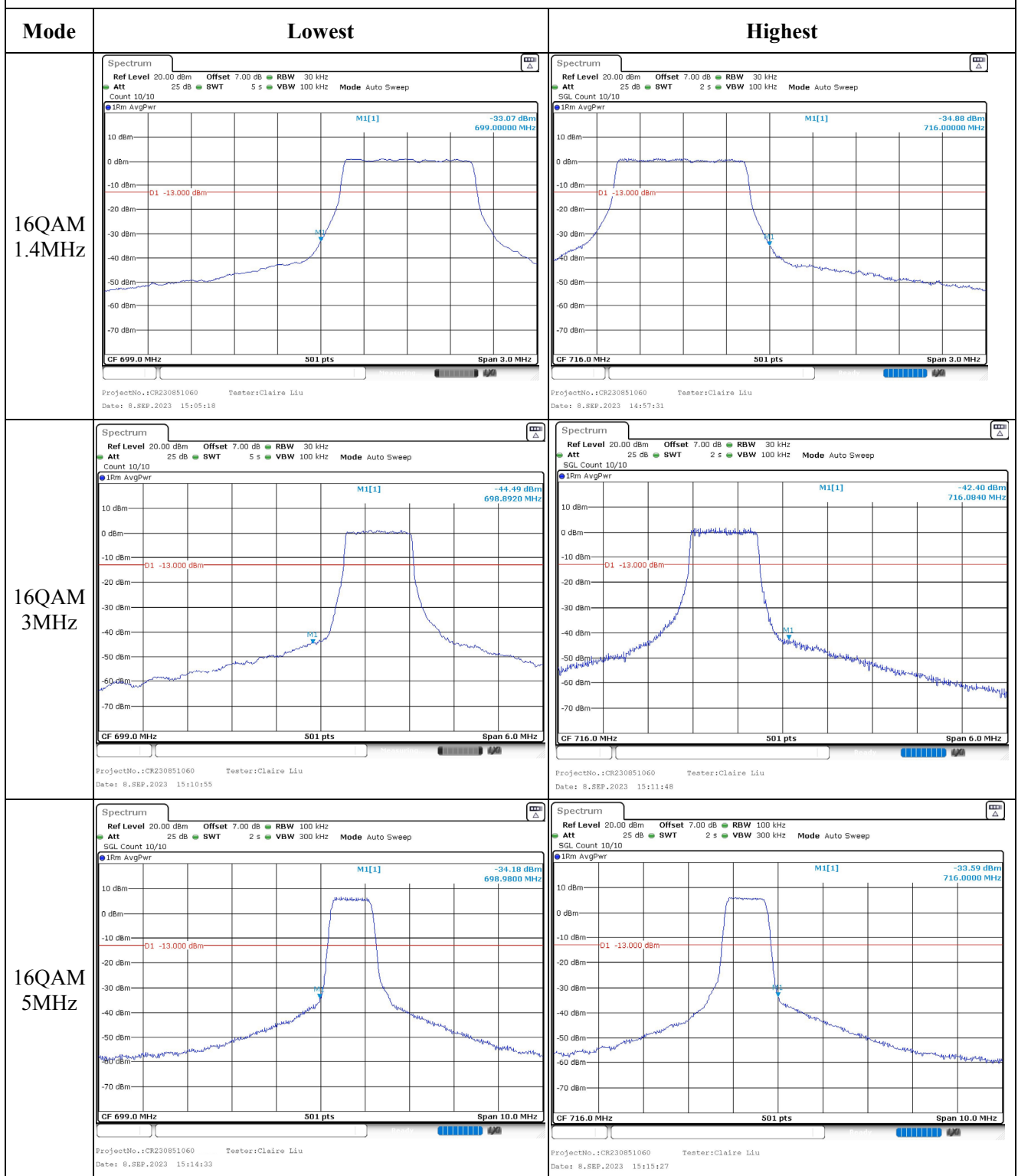
RB6 Out of band emission, Band Edge



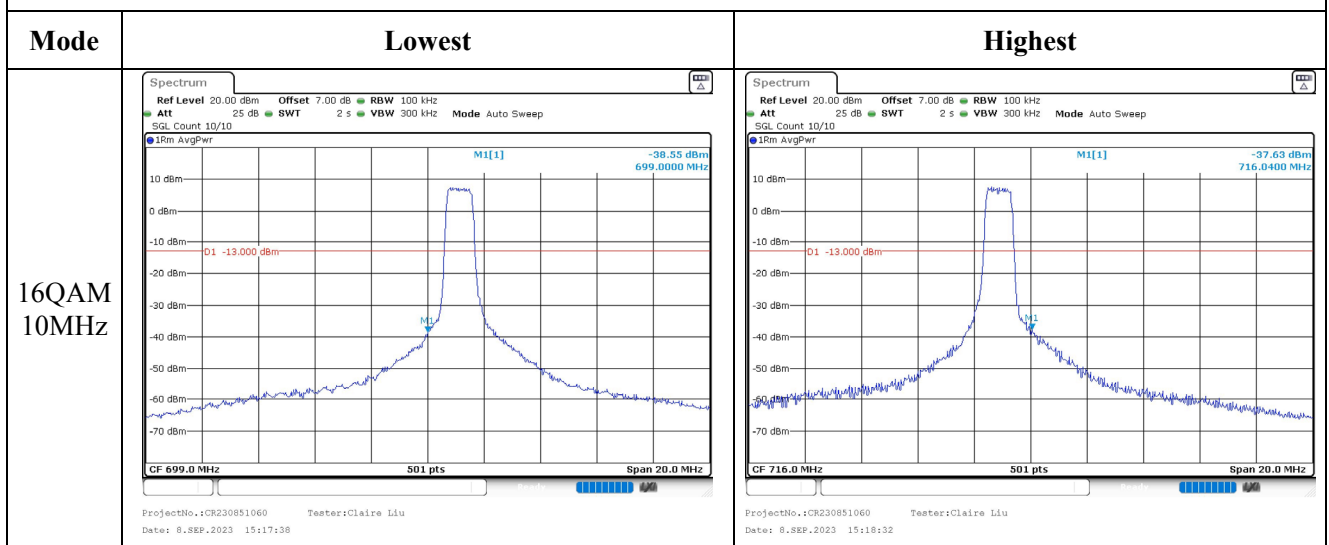
RB6 Out of band emission, Band Edge



RB5 Out of band emission, Band Edge



RB5 Out of band emission, Band Edge



4.5 Antenna Port Test Data and Results for LTE Band 13

Serial Number:	2AQ1-8	Test Date:	2023/9/8~2023/11/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~26.3	Relative Humidity: (%)	52~56	ATM Pressure: (kPa)	100.2~101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2022/11/25	2023/11/24
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	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	2022/9/29	2023/9/28
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)
5MHz	779.5	782	784.5
10MHz	/	782	/

Test Data:**FCC§2.1046;§ 27.50(b) (9)****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		
5MHz QPSK	RB1#0	21.4	21.87	21.56	23.31	44.77
	RB1#3	21.32	21.57	21.4		
	RB1#5	21.32	21.58	21.38		
	RB3#0	20.5	20.57	20.19		
	RB3#3	20.35	20.51	20.03		
	RB6#0	20.53	20.5	20.24		
5MHz 16QAM	RB1#0	21.26	21.32	21.39	22.83	44.77
	RB1#3	21	21.2	21.14		
	RB1#5	20.9	21.06	21.04		
	RB3#0	20.33	20.47	20.17		
	RB3#3	20.16	20.48	20.09		
	RB5#0	19.22	19.34	19.25		
10MHz QPSK	RB1#1	/	21.48	/	23.02	44.77
	RB1#4	/	21.29	/		
	RB1#6	/	21.4	/		
	RB3#1	/	21.58	/		
	RB3#4	/	21.44	/		
	RB6#1	/	20.42	/		
10MHz 16QAM	RB1#1	/	21.18	/	22.85	44.77
	RB1#4	/	21.08	/		
	RB1#6	/	21.08	/		
	RB3#1	/	21.4	/		
	RB3#4	/	21.41	/		
	RB5#1	/	20.24	/		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(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#1	/	11.22	/	13
	RB6#1	/	11.62	/	13
10MHz 16QAM	RB1#1	/	12.06	/	13
	RB5#1	/	12.17	/	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	1.118	1.098	1.098	1.32	1.3	1.34
5MHz 16QAM	0.958	0.938	0.918	1.18	1.14	1.14
10MHz QPSK	/	1.118	/	/	1.32	/
10MHz 16QAM	/	0.958	/	/	1.16	/

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:	10M 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	12	777.166	777.00	786.8	787.00
	-20	12	777.178	777.00	786.783	787.00
	-10	12	777.218	777.00	786.832	787.00
	0	12	777.247	777.00	786.85	787.00
	10	12	777.217	777.00	786.81	787.00
	20	12	777.12	777.00	786.86	787.00
	30	12	777.165	777.00	786.771	787.00
	40	12	777.171	777.00	786.806	787.00
	50	12	777.187	777.00	786.828	787.00
Frequency Stability vs. Voltage	20	9	777.217	777.00	786.857	787.00
	20	14	777.227	777.00	786.845	787.00
					Result:	Pass

Test Mode:	10M 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	12	777.152	777.00	786.813	787.00
	-20	12	777.312	777.00	786.807	787.00
	-10	12	777.299	777.00	786.86	787.00
	0	12	777.372	777.00	786.772	787.00
	10	12	777.399	777.00	786.841	787.00
	20	12	777.12	777.00	786.86	787.00
	30	12	777.22	777.00	786.836	787.00
	40	12	777.277	777.00	786.844	787.00
	50	12	777.295	777.00	786.827	787.00
Frequency Stability vs. Voltage	20	9	777.339	777.00	786.771	787.00
	20	14	777.387	777.00	786.827	787.00
					Result:	Pass

Test Plots(Note: The 7dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

