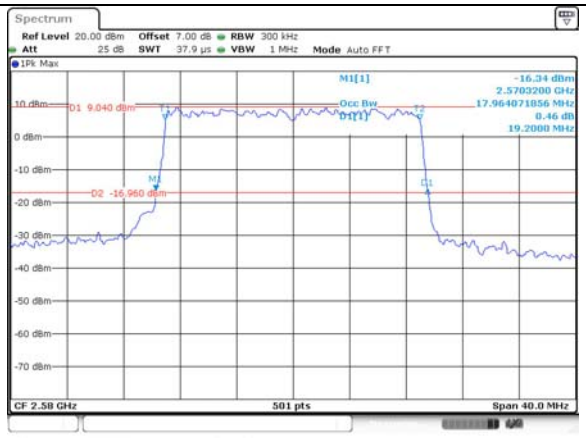
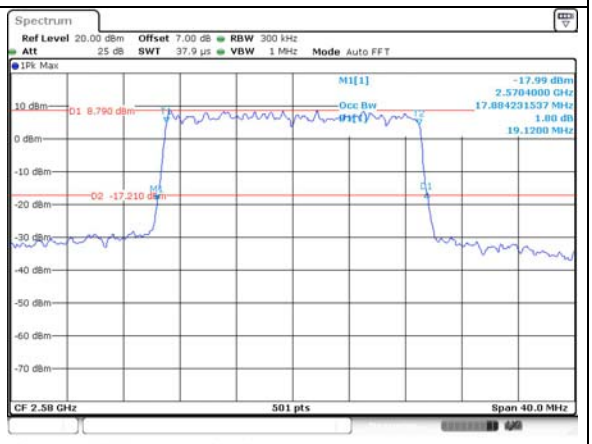
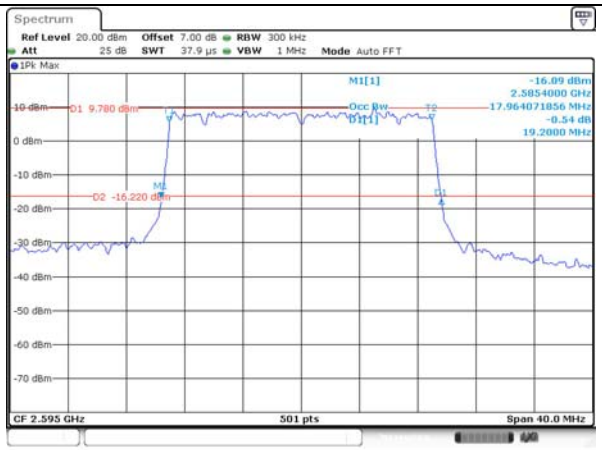
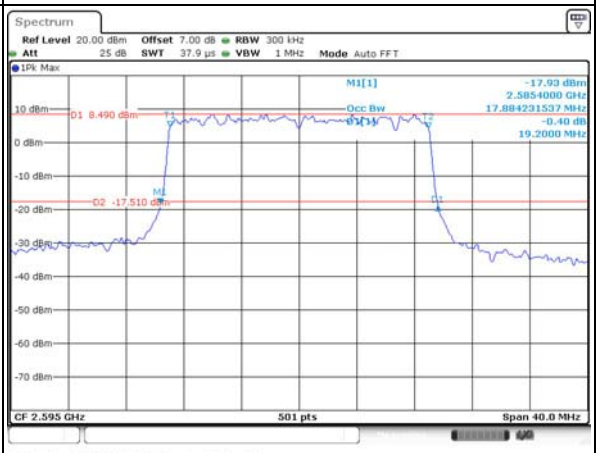
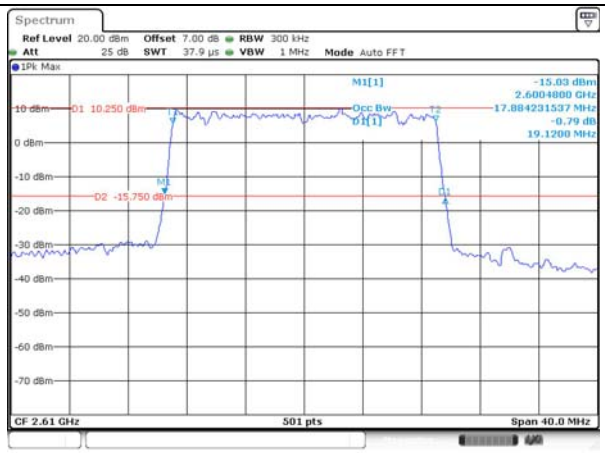
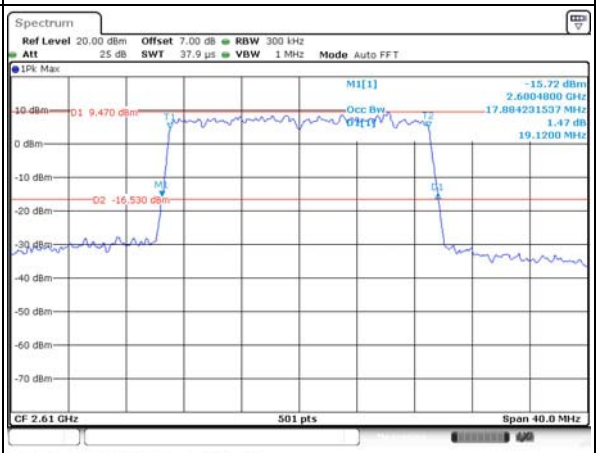
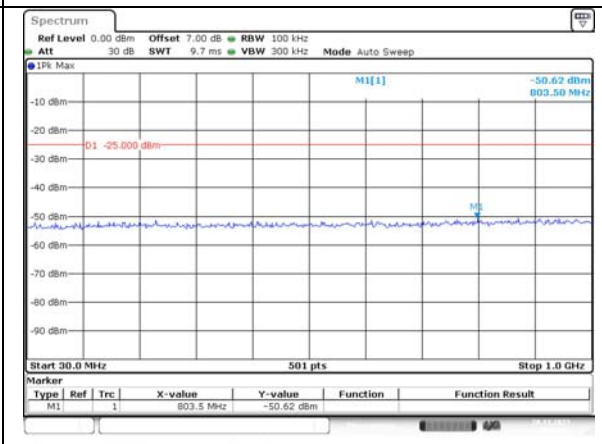
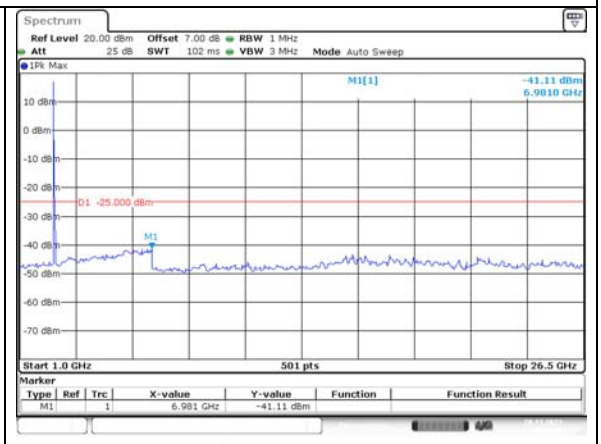
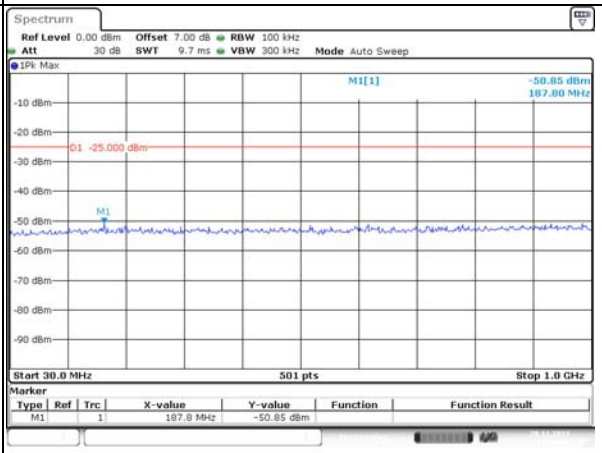
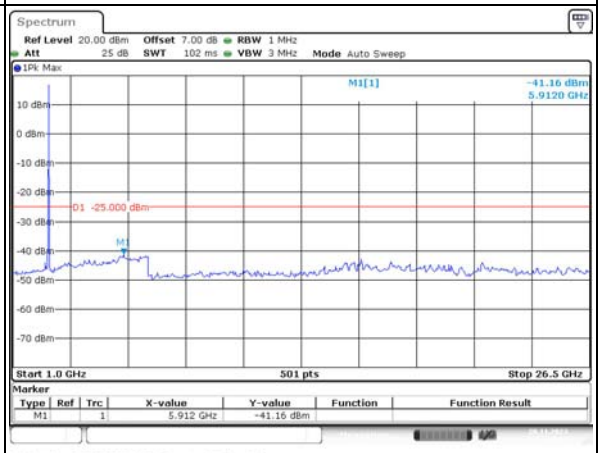
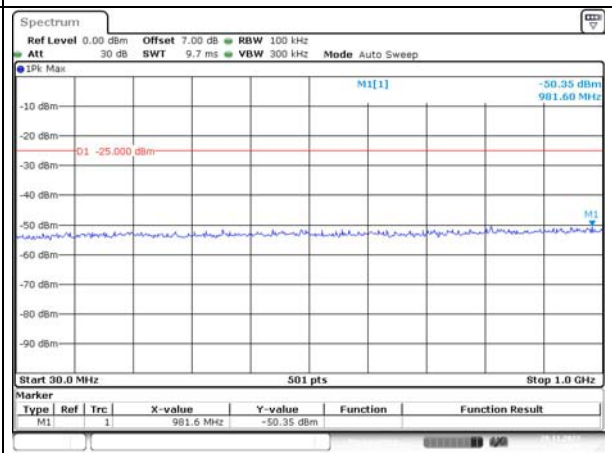
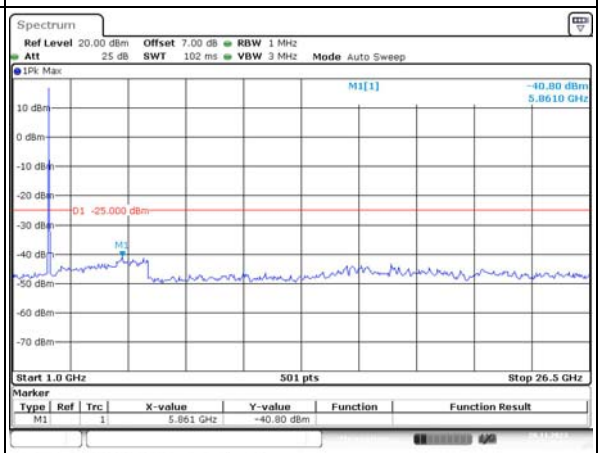
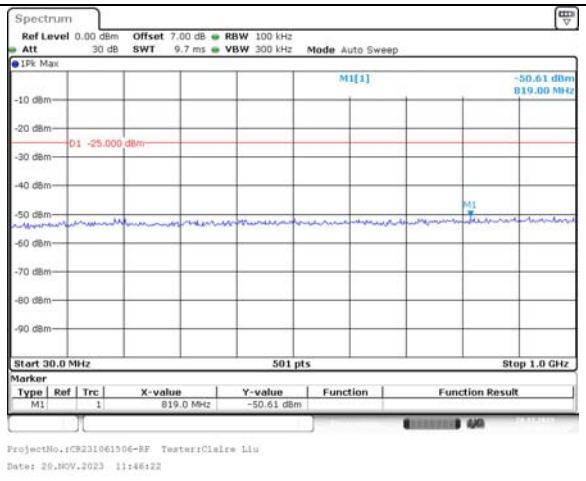
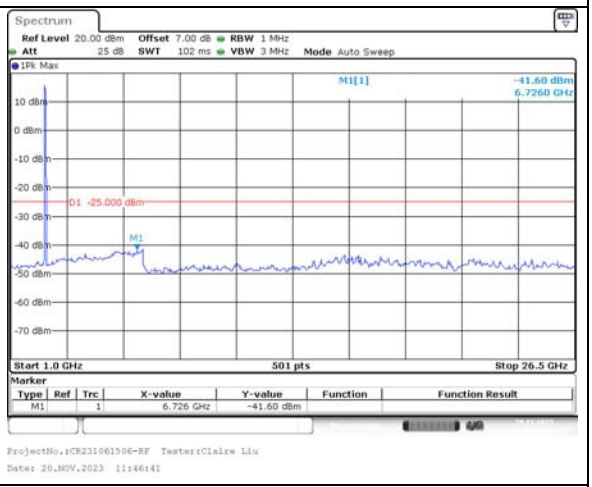
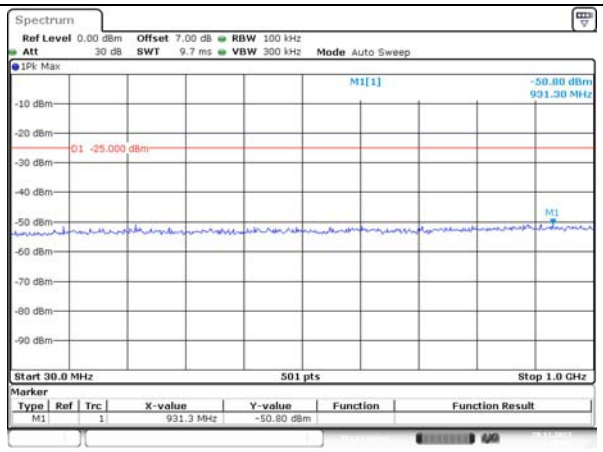
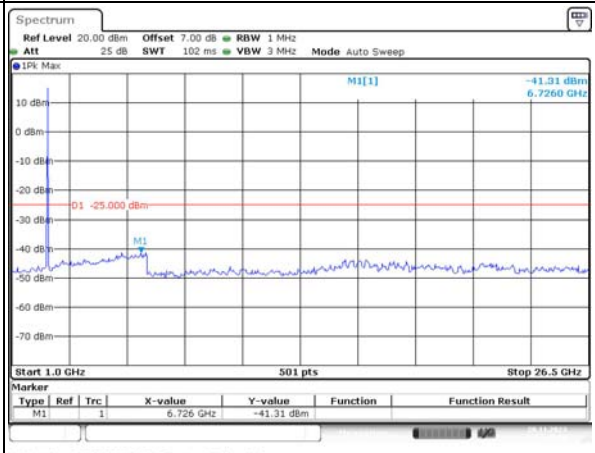
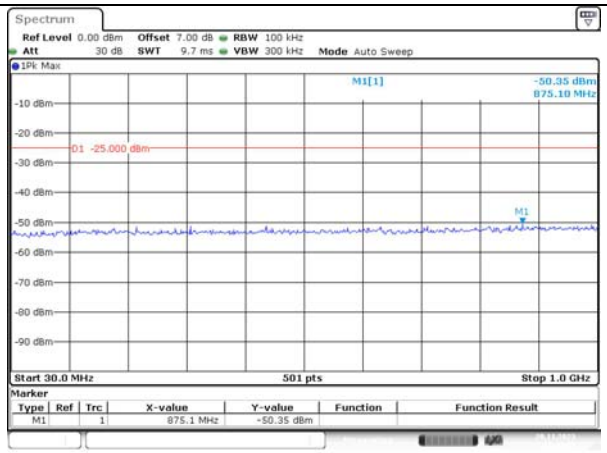
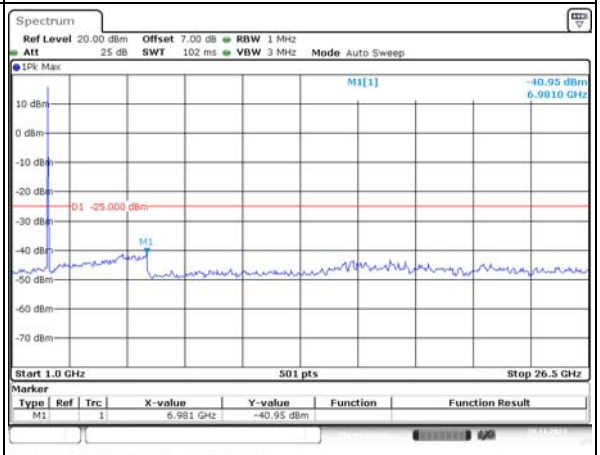
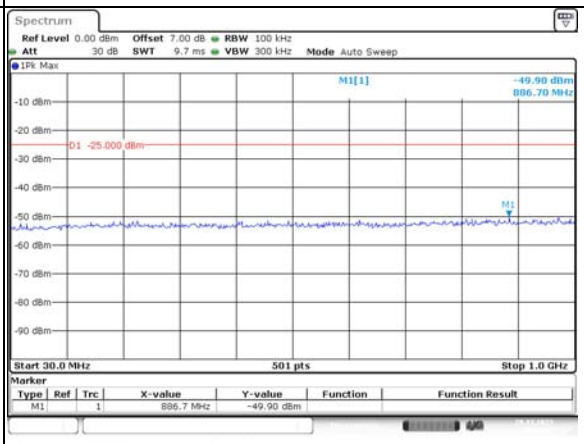
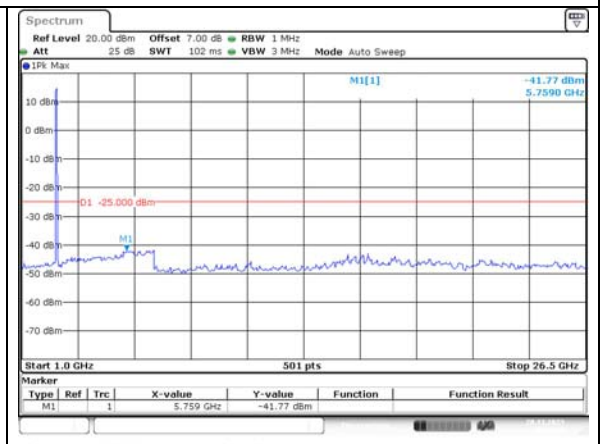
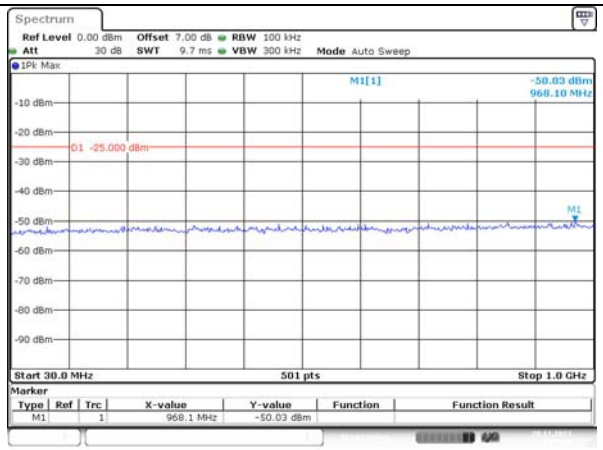
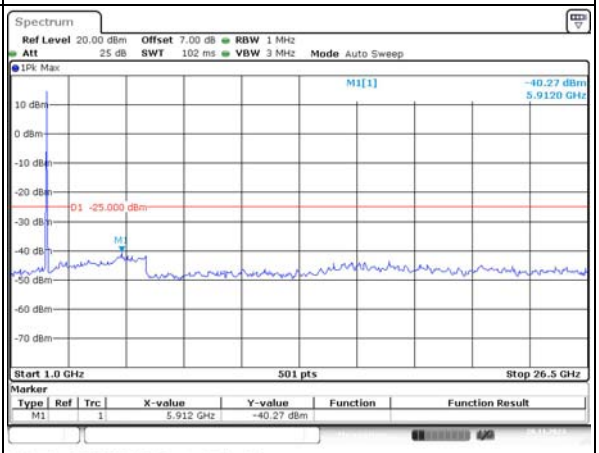
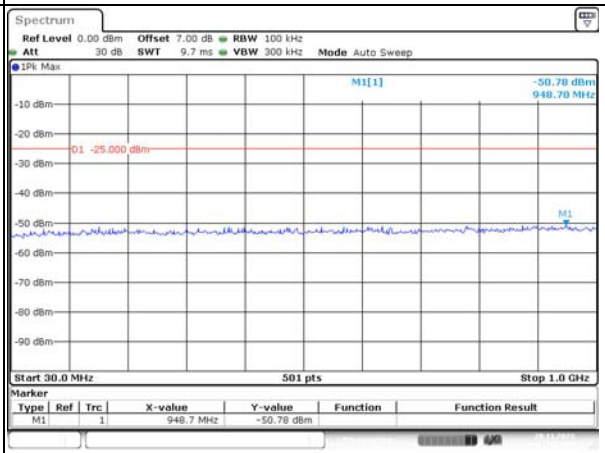
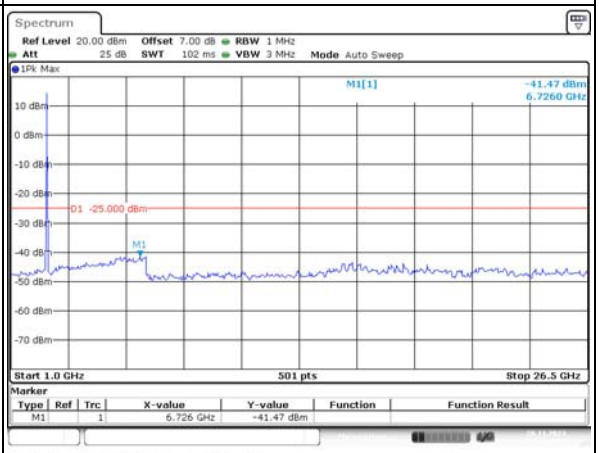
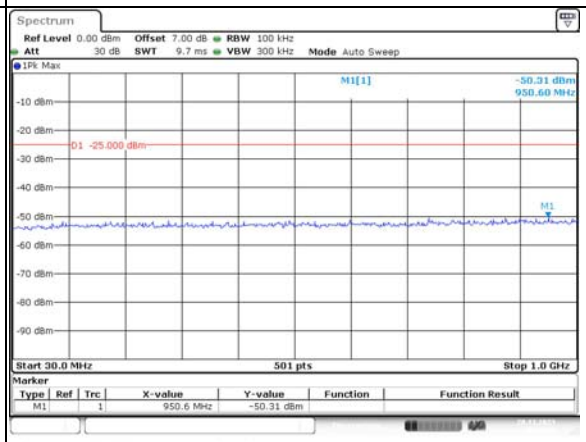
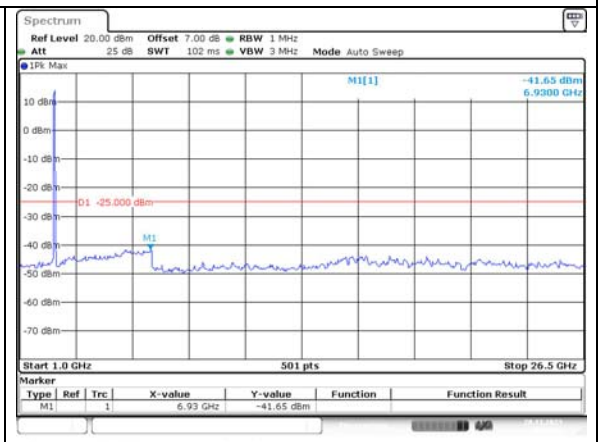
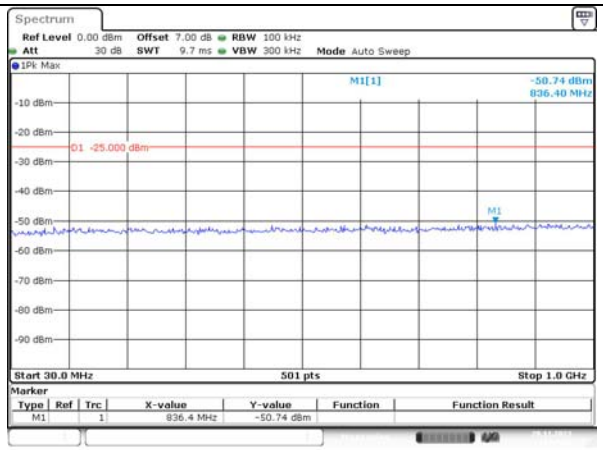
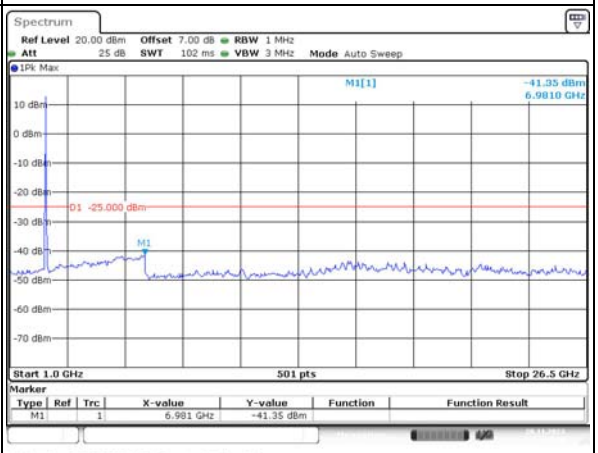
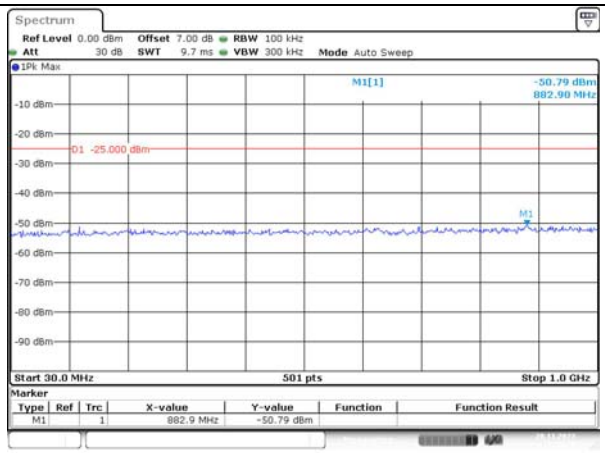
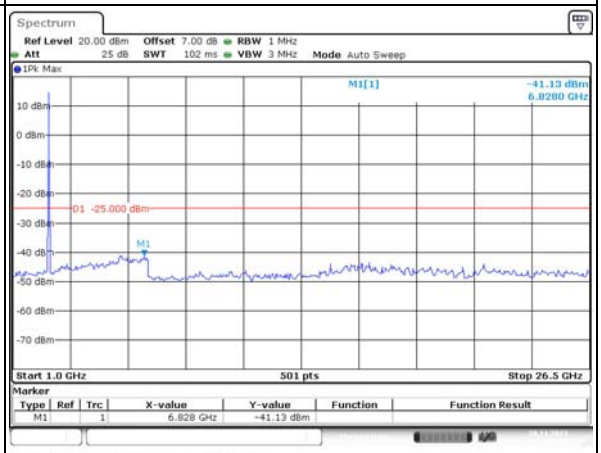
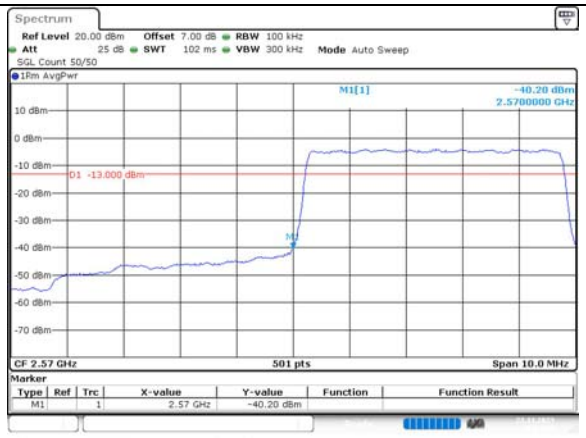
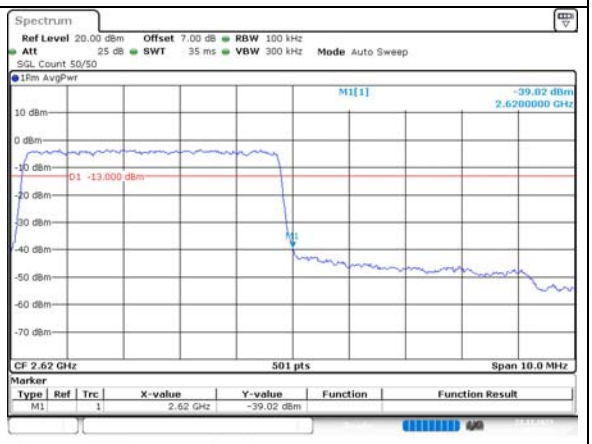
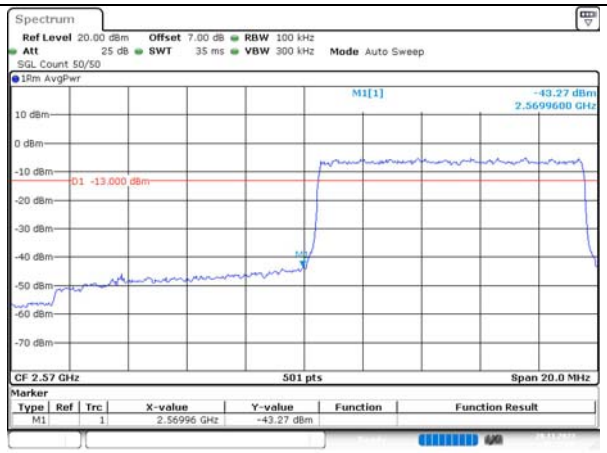
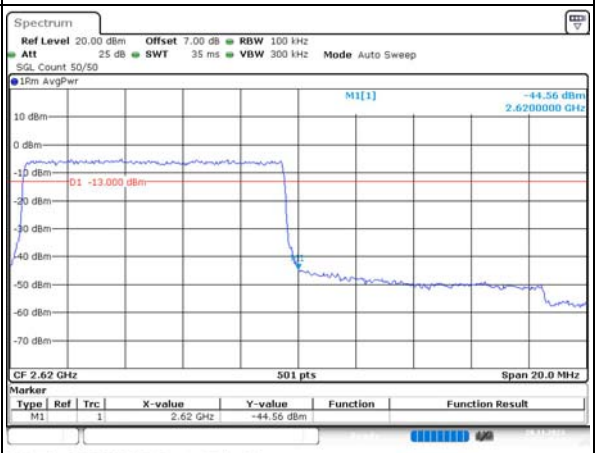
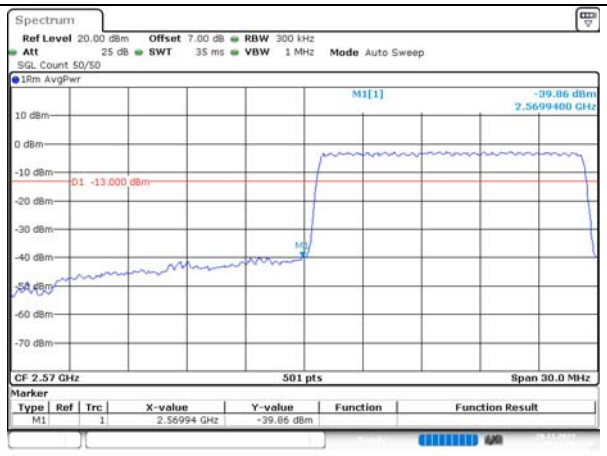
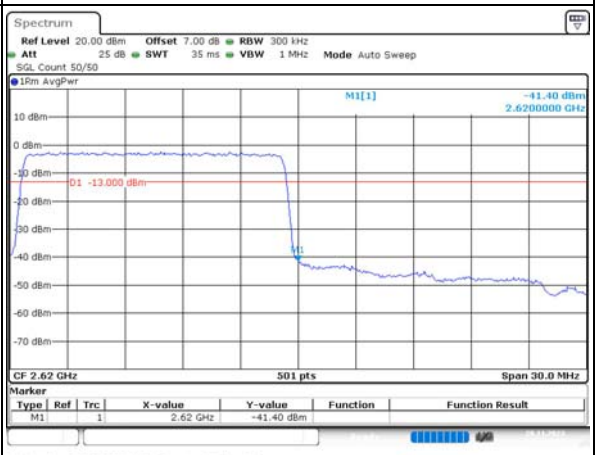
Occupied Bandwidth		
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

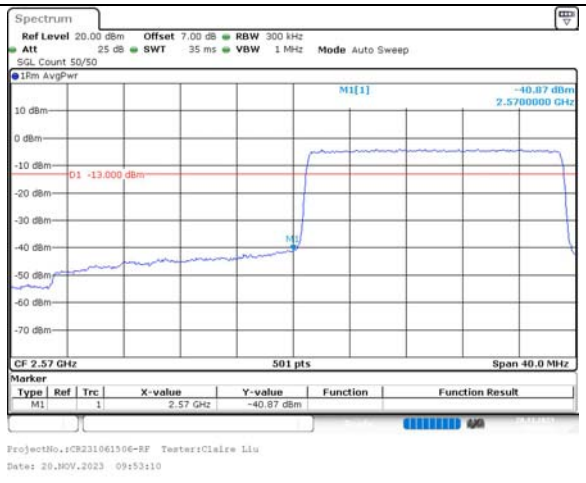
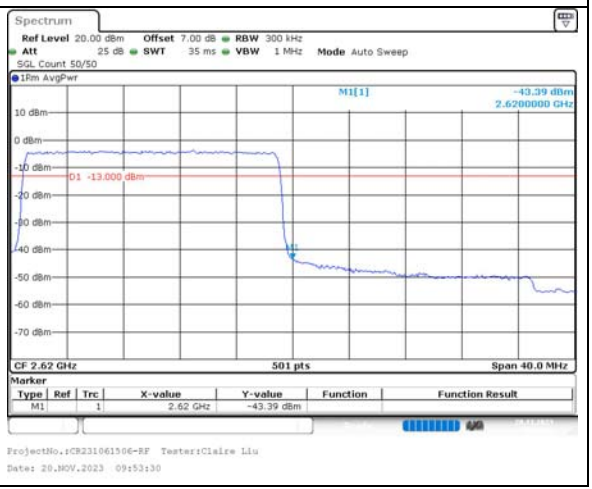
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

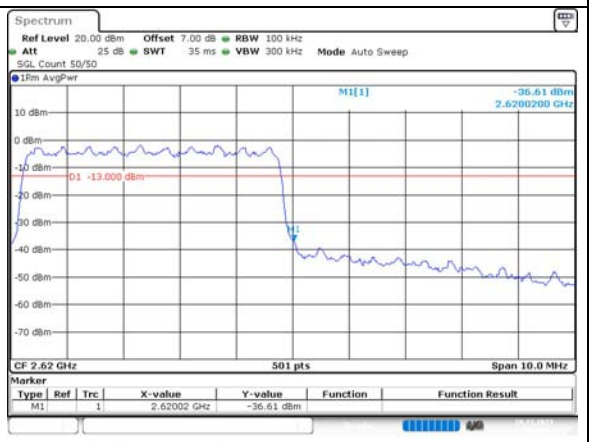
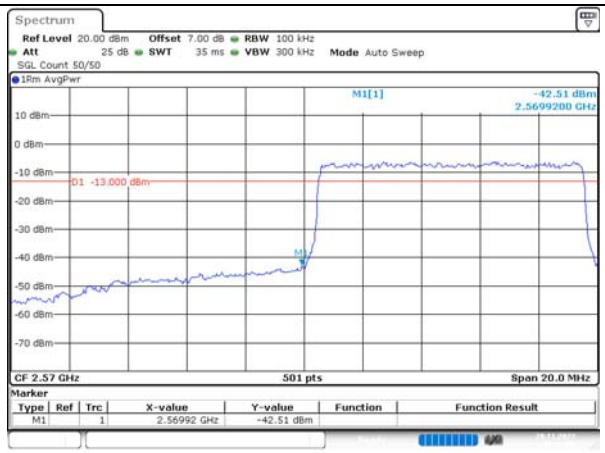
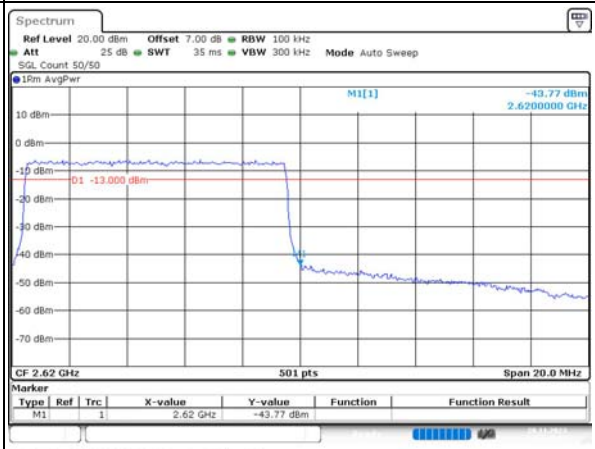
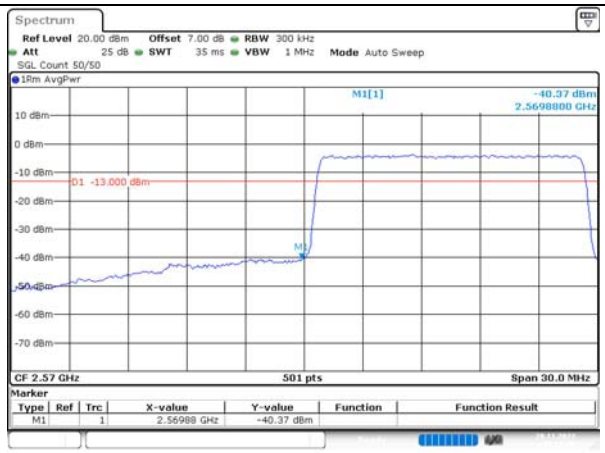
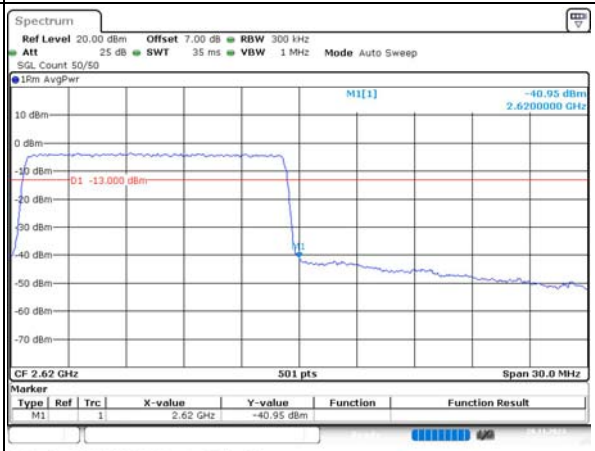
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

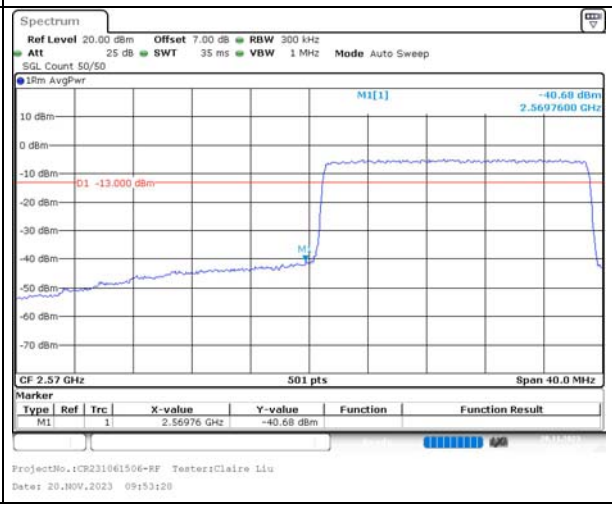
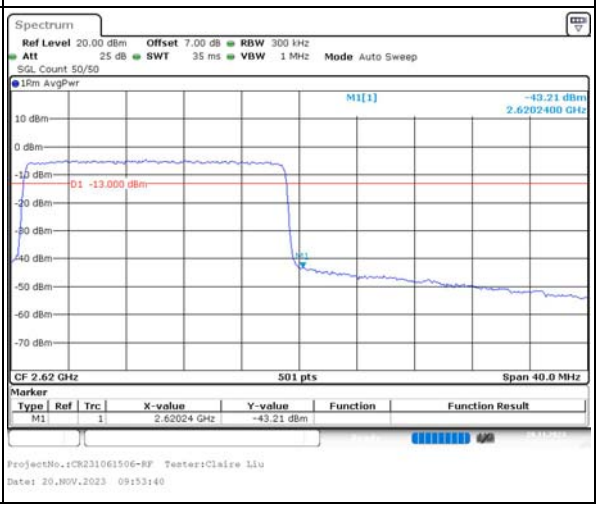
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		
QPSK 10MHz		
QPSK 15MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 20MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 5MHz		
16QAM 10MHz		
16QAM 15MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 20MHz		

4.11 Antenna Port Test Data and Results for LTE Band 40

Serial Number:	2CII-1	Test Date:	2023/11/20-2023/11/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.5~26.5	Relative Humidity: (%)	54~64	ATM Pressure: (kPa)	100.1~102

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Minl-Clrcuits	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	2023/9/28	2024/9/27

** 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	2307.5	/	2312.5
10MHz	/	2310	/
5MHz	2352.5	/	2357.5
10MHz	/	2355	/

Test Data:
(Note:Uplink Downlink configuration 3 was tested)

RF Output Power

LTE Band 40 Lower:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	19.55	/	19.63	17.39	24
	RB1#13	19.71	/	**19.73**		
	RB1#24	19.61	/	19.61		
	RB15#0	18.62	/	18.67		
	RB15#10	18.72	/	18.71		
	RB25#0	18.65	/	18.69		
5MHz 16QAM	RB1#0	18.73	/	18.69	16.52	24
	RB1#13	**18.86**	/	**18.86**		
	RB1#24	18.73	/	18.72		
	RB15#0	17.69	/	17.65		
	RB15#10	17.75	/	17.69		
	RB25#0	17.76	/	17.76		
10MHz QPSK	RB1#0	/	19.7	/	17.46	24
	RB1#25	/	**19.8**	/		
	RB1#49	/	19.72	/		
	RB25#0	/	18.64	/		
	RB25#25	/	18.74	/		
	RB50#0	/	18.73	/		
10MHz 16QAM	RB1#0	/	18.67	/	16.43	24
	RB1#25	/	**18.77**	/		
	RB1#49	/	18.72	/		
	RB25#0	/	17.72	/		
	RB25#25	/	17.82	/		
	RB50#0	/	17.74	/		

Note:
For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.
For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less than 24dBm, so in any 5MHz bandwidth, it's will not exceed limit
EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi)

LTE Band 40 Upper:

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	19.66	/	19.62	17.48	24
	RB1#13	**19.82**	/	19.74		
	RB1#24	19.64	/	19.63		
	RB15#0	18.69	/	18.68		
	RB15#10	18.73	/	18.77		
	RB25#0	18.7	/	18.69		
5MHz 16QAM	RB1#0	18.98	/	18.78	16.75	24
	RB1#13	**19.09**	/	18.9		
	RB1#24	18.98	/	18.77		
	RB15#0	17.76	/	17.75		
	RB15#10	17.79	/	17.82		
	RB25#0	17.72	/	17.81		
10MHz QPSK	RB1#0	/	19.74	/	17.46	24
	RB1#25	/	**19.8**	/		
	RB1#49	/	19.74	/		
	RB25#0	/	18.66	/		
	RB25#25	/	18.79	/		
	RB50#0	/	18.75	/		
10MHz 16QAM	RB1#0	/	18.71	/	16.44	24
	RB1#25	/	**18.78**	/		
	RB1#49	/	18.75	/		
	RB25#0	/	17.77	/		
	RB25#25	/	17.88	/		
	RB50#0	/	17.79	/		

Note:
For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.
For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less than 24dBm, so in any 5MHz bandwidth, it's will not exceed limit
EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi)

Result:	**Pass**

Duty Cycle

Operation Band	Modulation	Bandwidth	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	Limit (%)
LTE Band 40 Lower	QPSK	5M	3	10.05	29.85	38
		10M	3	10.05	29.85	38
	16QAM	5M	3	10.05	29.85	38
		10M	2.97	10.02	29.64	38
LTE Band 40 Upper	QPSK	5M	3	10.02	29.94	38
		10M	3	10.02	29.94	38
	16QAM	5M	3	10.05	29.85	38
		10M	3	10.05	29.85	38
					Result:	**Pass**

Occupied Bandwidth

LTE Band 40 Lower:

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	4.96	/	5.08
5MHz 16QAM	4.511	/	4.511	4.98	/	4.94
10MHz QPSK	/	8.942	/	/	9.68	/
10MHz 16QAM	/	8.942	/	/	9.56	/

LTE Band 40 Upper:

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	4.98	/	4.94
5MHz 16QAM	4.511	/	4.511	5.00	/	4.94
10MHz QPSK	/	8.942	/	/	9.68	/
10MHz 16QAM	/	8.942	/	/	9.60	/

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

LTE Band 40 Lower:

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2305.180	2305.000	2314.724	2315.000
	-20	3.91	2305.191	2305.000	2314.790	2315.000
	-10	3.91	2305.203	2305.000	2314.713	2315.000
	0	3.91	2305.198	2305.000	2314.734	2315.000
	10	3.91	2305.247	2305.000	2314.704	2315.000
	20	3.91	2305.160	2305.000	2314.800	2315.000
	30	3.91	2305.245	2305.000	2314.767	2315.000
	40	3.91	2305.206	2305.000	2314.729	2315.000
	50	3.91	2305.228	2305.000	2314.775	2315.000
Frequency Stability vs. Voltage	20	3.45	2305.166	2305.000	2314.715	2315.000
	20	4.5	2305.176	2305.000	2314.762	2315.000
					Result:	**Pass**

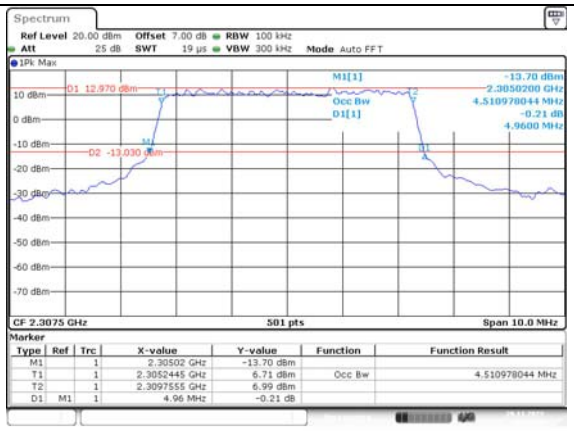
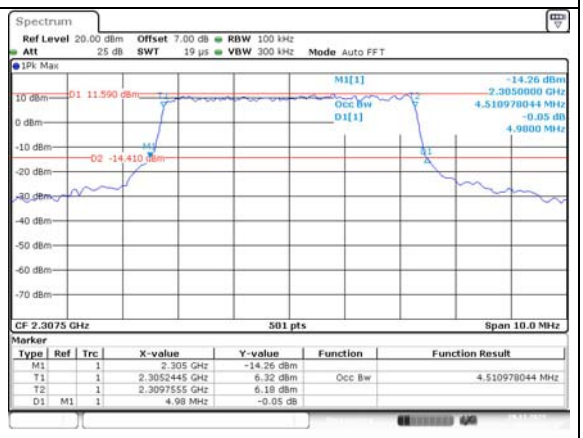
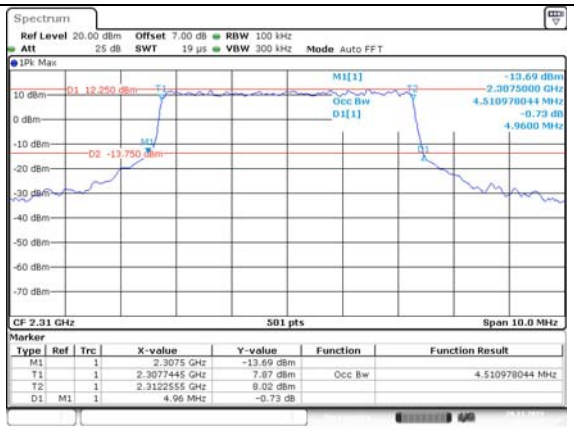
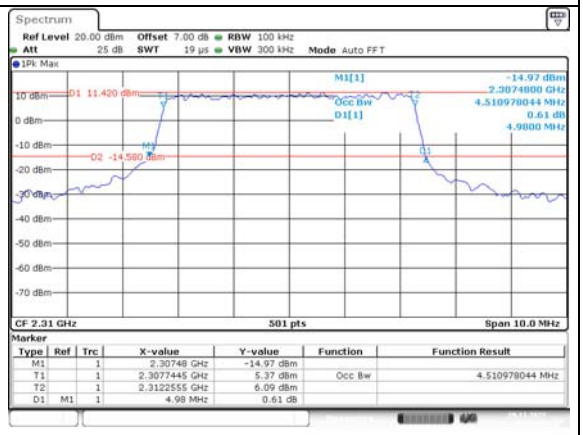
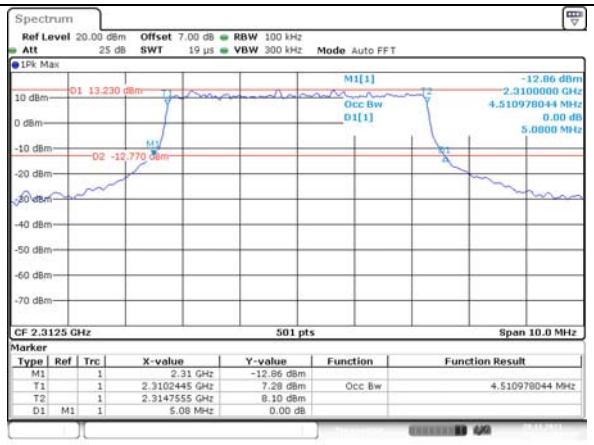
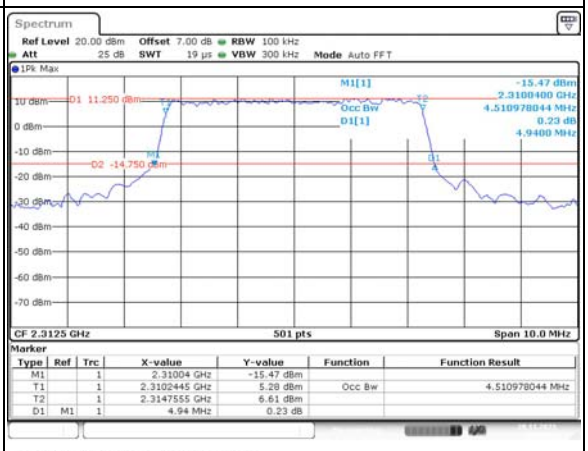
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2305.173	2305.000	2314.729	2315.000
	-20	3.91	2305.168	2305.000	2314.753	2315.000
	-10	3.91	2305.170	2305.000	2314.731	2315.000
	0	3.91	2305.180	2305.000	2314.789	2315.000
	10	3.91	2305.215	2305.000	2314.767	2315.000
	20	3.91	2305.160	2305.000	2314.800	2315.000
	30	3.91	2305.226	2305.000	2314.788	2315.000
	40	3.91	2305.200	2305.000	2314.797	2315.000
	50	3.91	2305.240	2305.000	2314.797	2315.000
Frequency Stability vs. Voltage	20	3.45	2305.244	2305.000	2314.737	2315.000
	20	4.5	2305.230	2305.000	2314.732	2315.000
					Result:	**Pass**

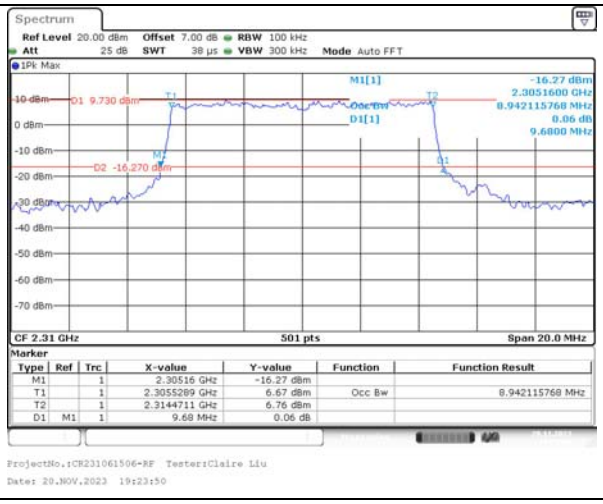
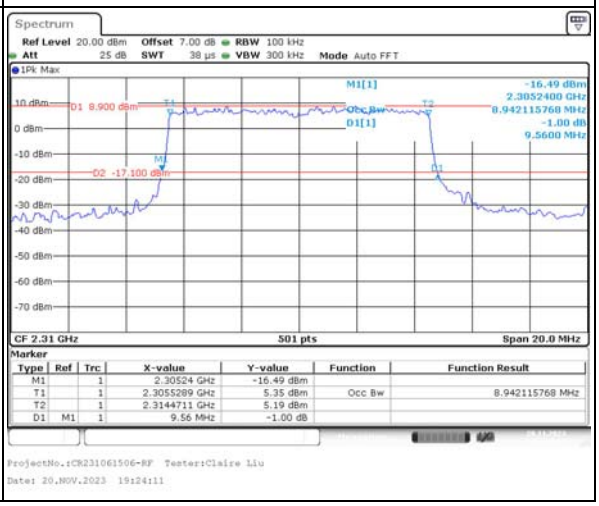
LTE Band 40 Upper:						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2350.209	2350.000	2359.744	2360.000
	-20	3.91	2350.171	2350.000	2359.754	2360.000
	-10	3.91	2350.199	2350.000	2359.735	2360.000
	0	3.91	2350.232	2350.000	2359.759	2360.000
	10	3.91	2350.202	2350.000	2359.760	2360.000
	20	3.91	2350.160	2350.000	2359.800	2360.000
	30	3.91	2350.196	2350.000	2359.734	2360.000
	40	3.91	2350.181	2350.000	2359.759	2360.000
	50	3.91	2350.193	2350.000	2359.780	2360.000
Frequency Stability vs. Voltage	20	3.45	2350.235	2350.000	2359.718	2360.000
	20	4.5	2350.174	2350.000	2359.727	2360.000
					Result:	**Pass**

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2350.188	2350.000	2359.773	2360.000
	-20	3.91	2350.168	2350.000	2359.789	2360.000
	-10	3.91	2350.252	2350.000	2359.791	2360.000
	0	3.91	2350.202	2350.000	2359.728	2360.000
	10	3.91	2350.257	2350.000	2359.763	2360.000
	20	3.91	2350.160	2350.000	2359.800	2360.000
	30	3.91	2350.192	2350.000	2359.744	2360.000
	40	3.91	2350.230	2350.000	2359.720	2360.000
	50	3.91	2350.227	2350.000	2359.707	2360.000
Frequency Stability vs. Voltage	20	3.45	2350.201	2350.000	2359.787	2360.000
	20	4.5	2350.196	2350.000	2359.792	2360.000
					Result:	**Pass**

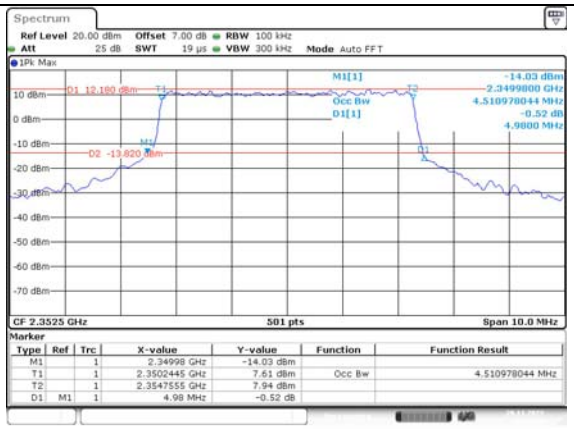
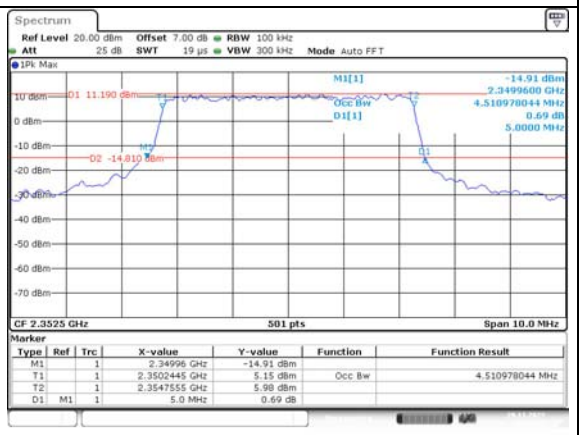
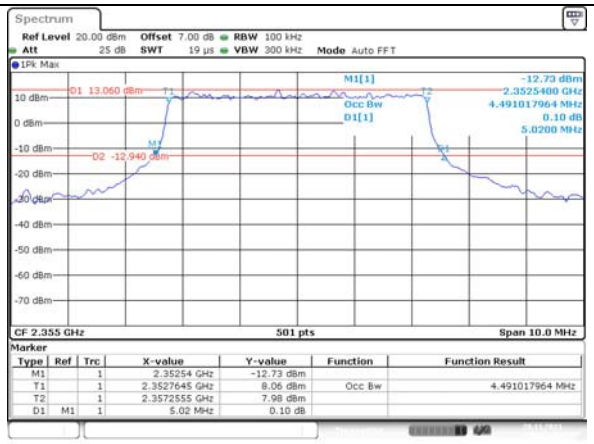
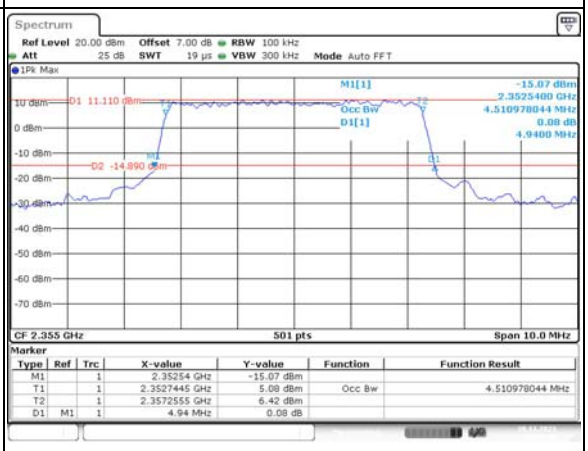
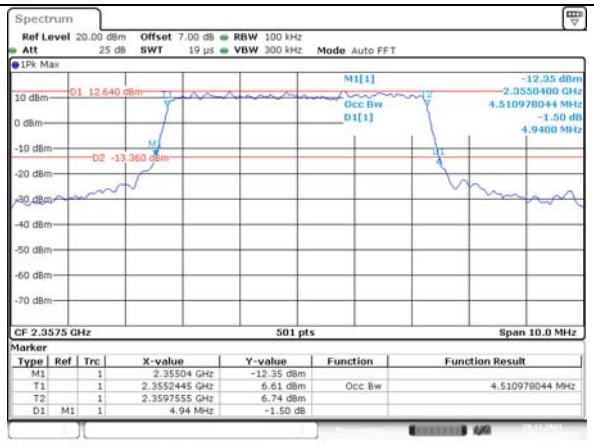
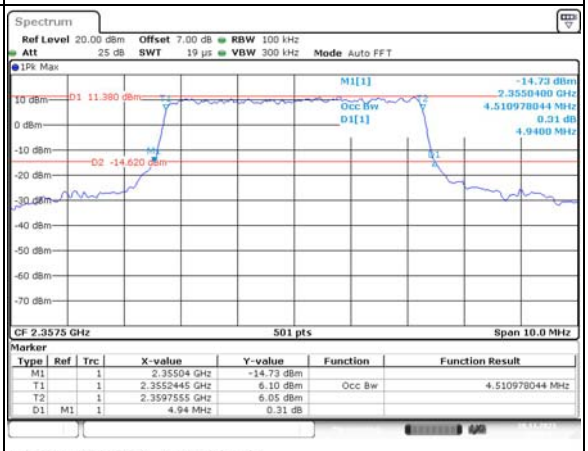
Test Plots (Note: The 7 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

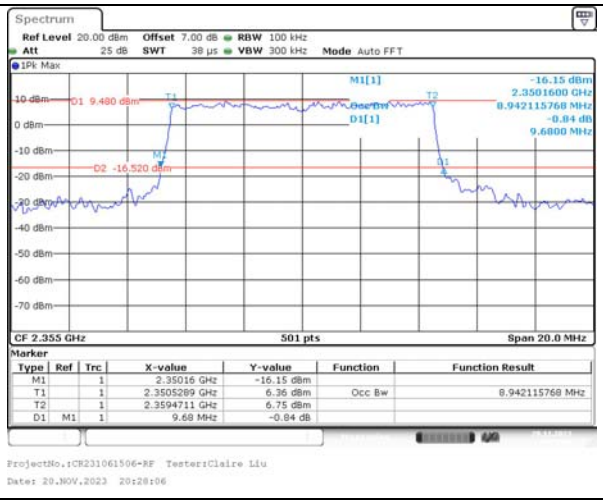
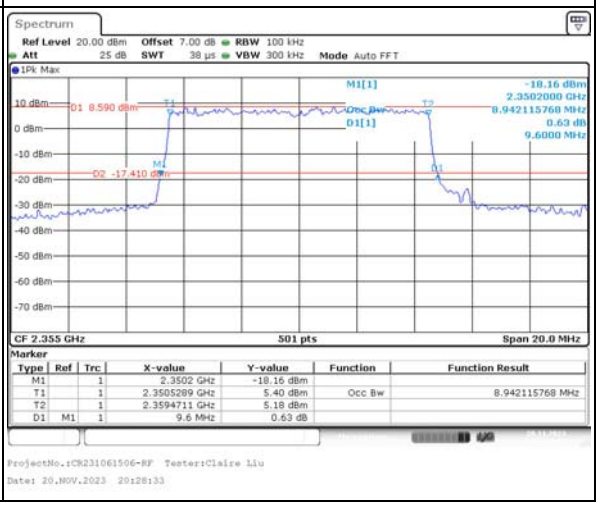
2305-2315 MHz:

Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

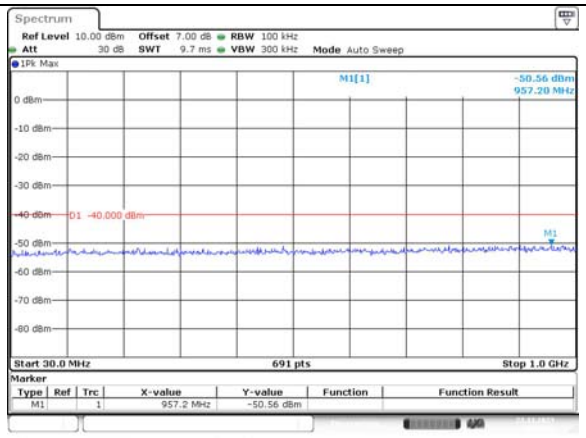
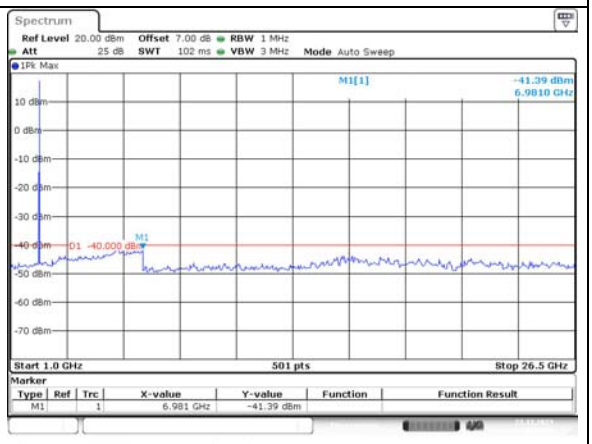
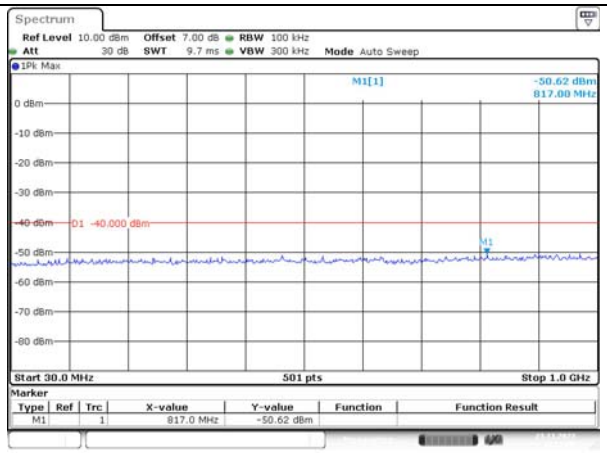
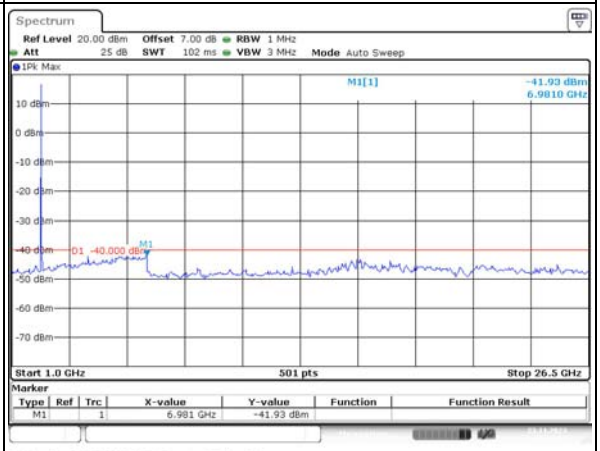
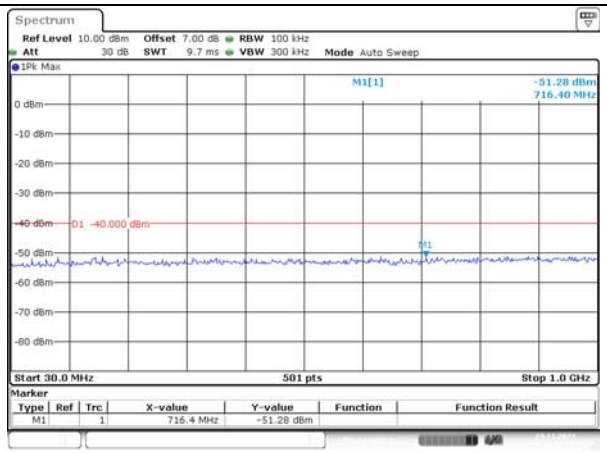
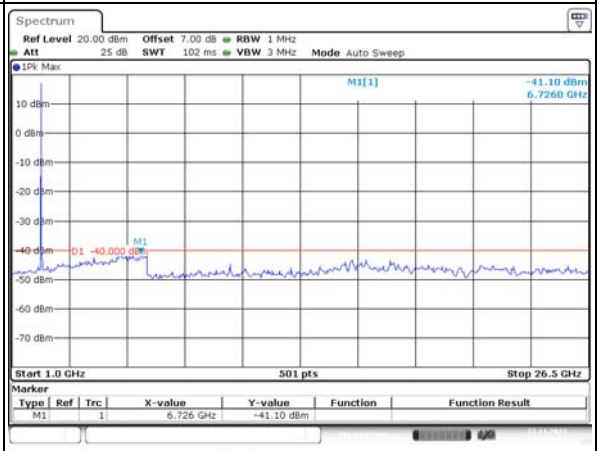
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Middle		

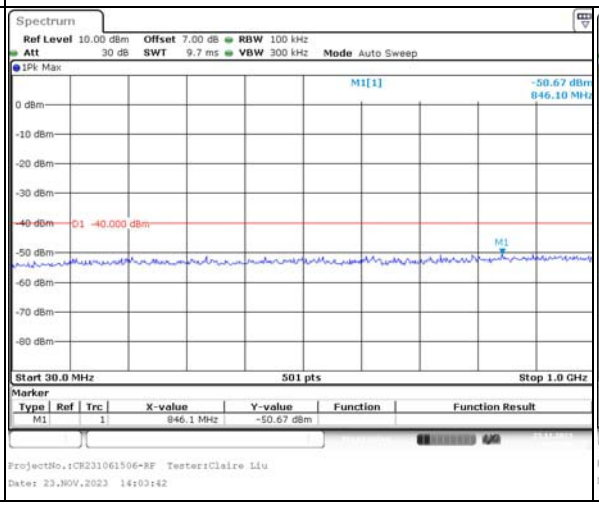
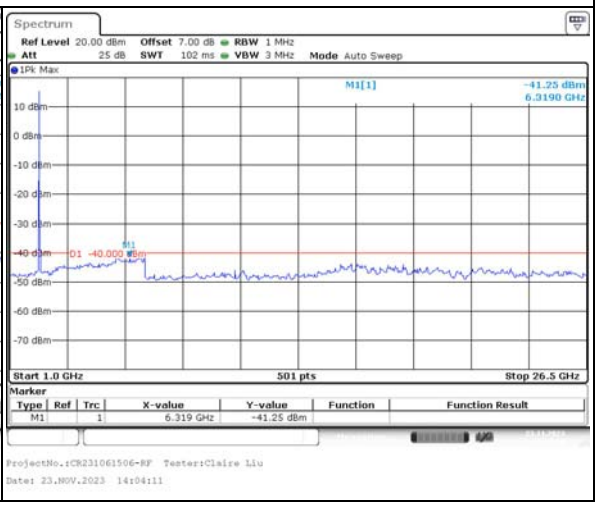
2350-2360 MHz:

Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

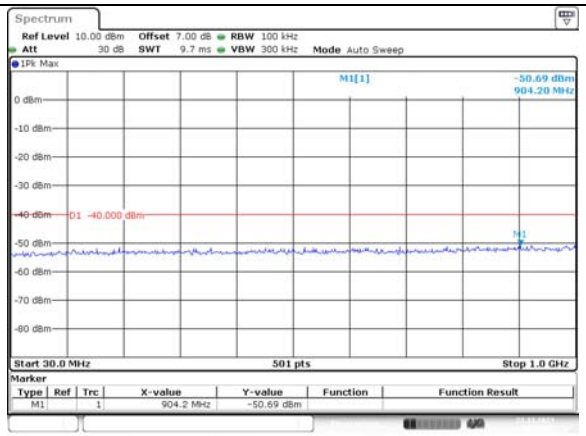
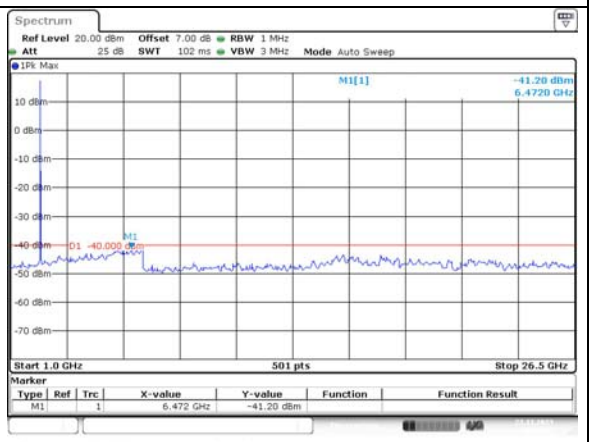
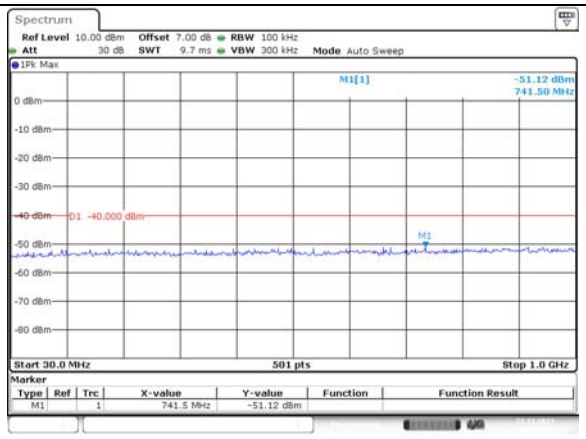
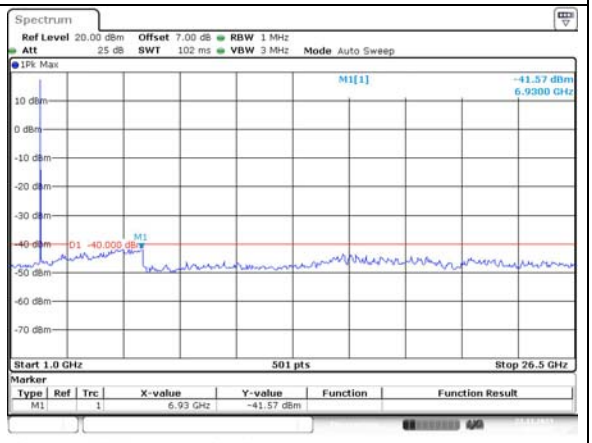
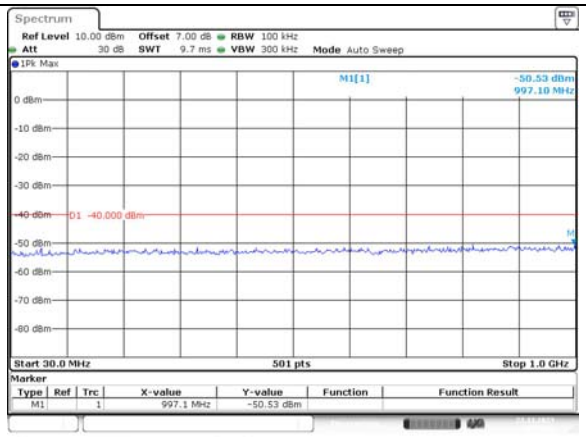
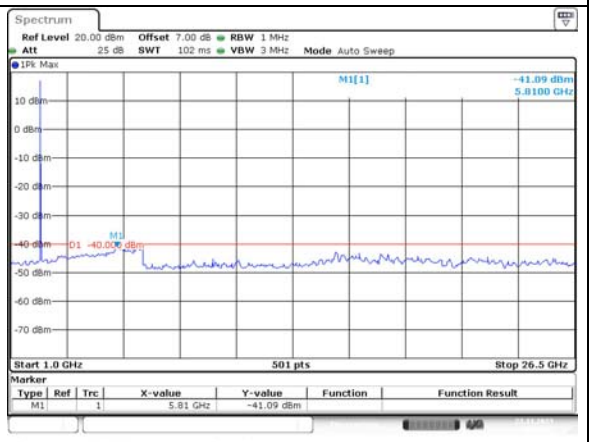
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Middle		

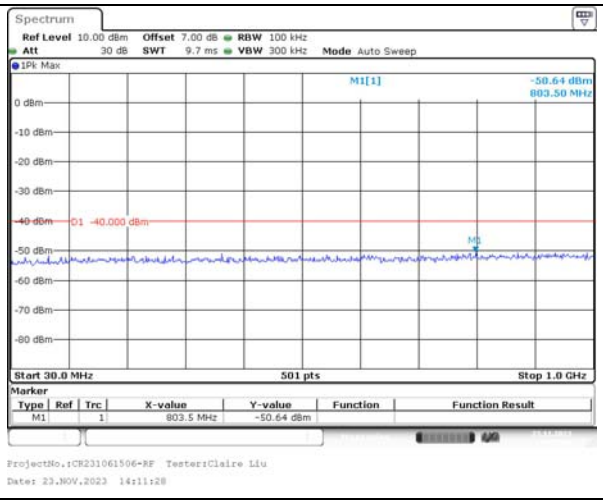
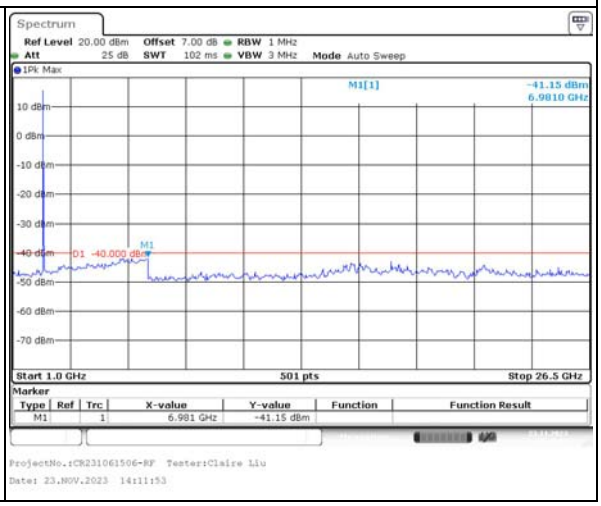
2305-2315 MHz:

Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

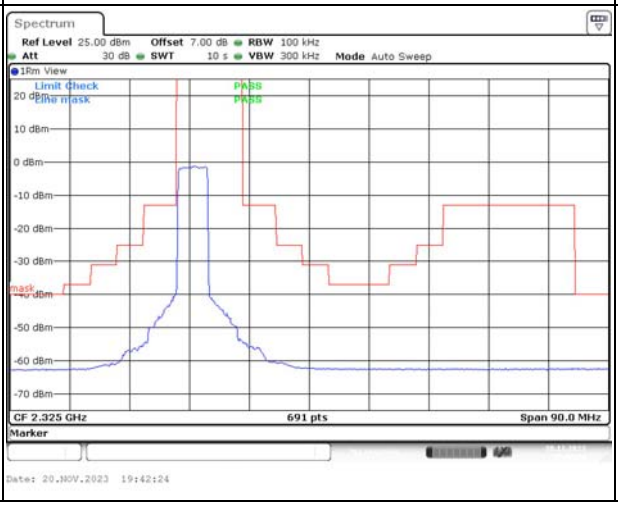
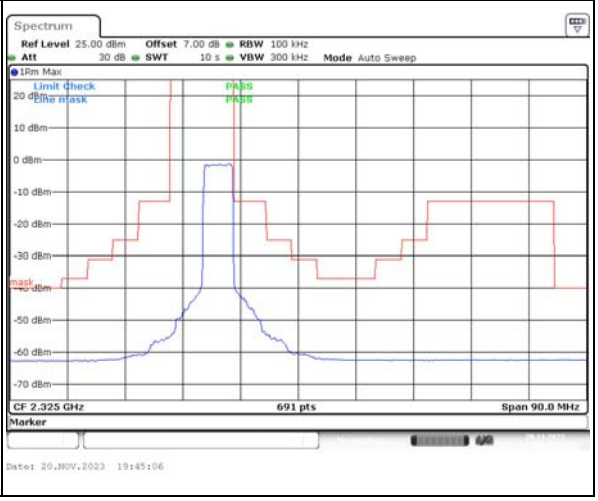
Spurious Emissions at Antenna Terminal	
Channel	**10MHz Bandwidth QPSK**
Middle	 

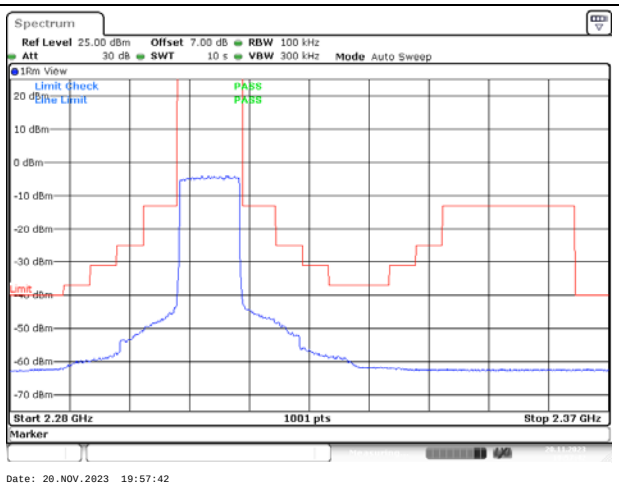
2350-2360 MHz:

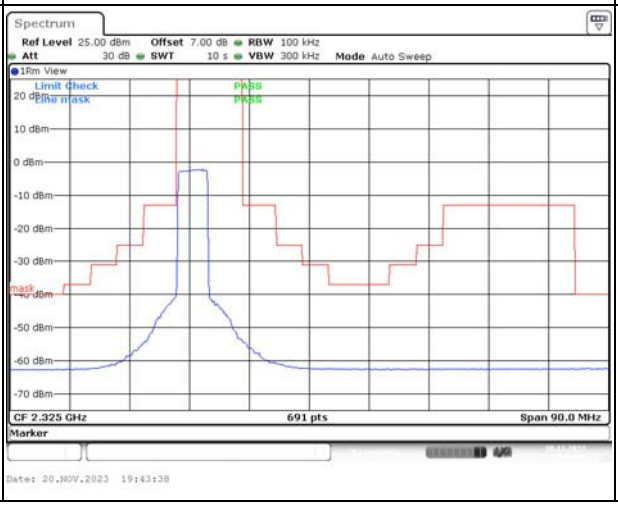
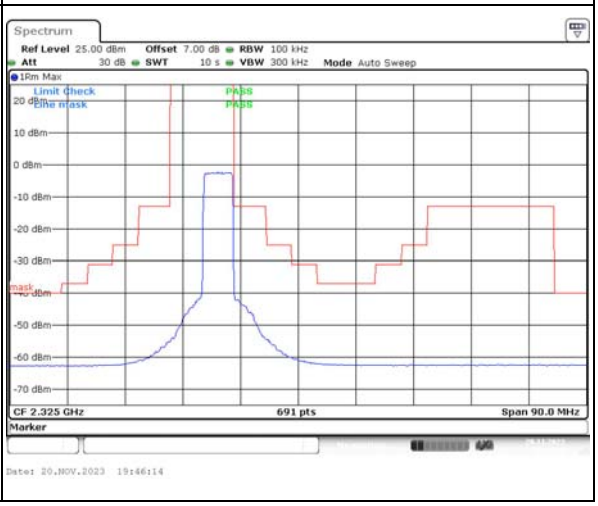
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

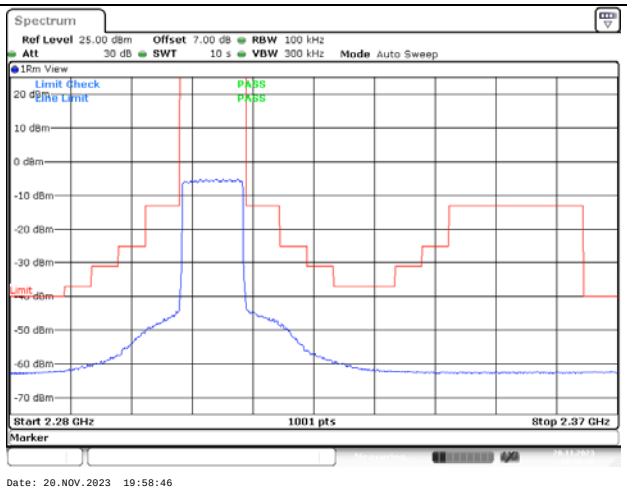
Spurious Emissions at Antenna Terminal	
Channel	**10MHz Bandwidth QPSK**
Middle	 

2305-2315 MHz:

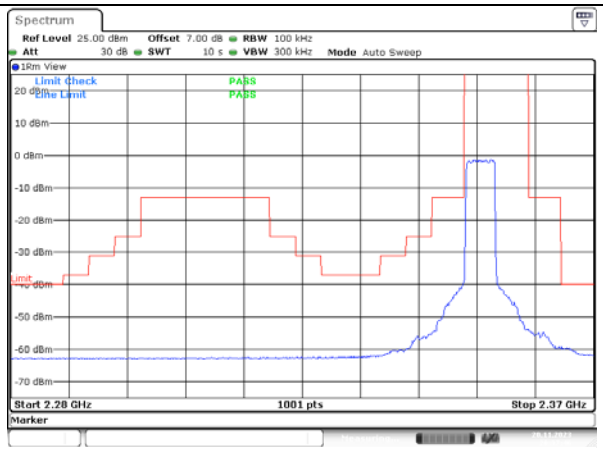
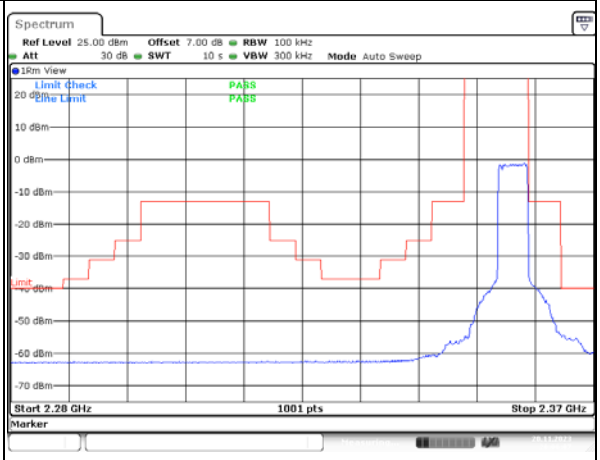
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		

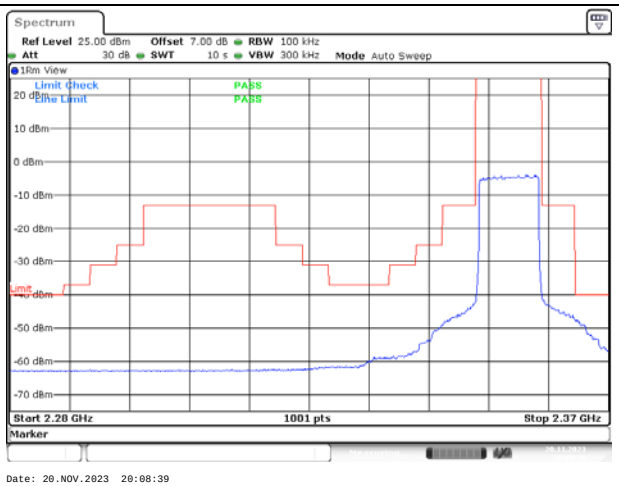
Out of band emission, Band Edge	
Mode	**Middle**
QPSK 10MHz	

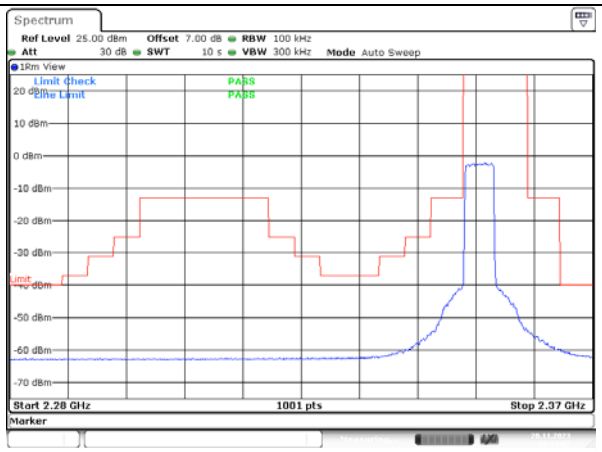
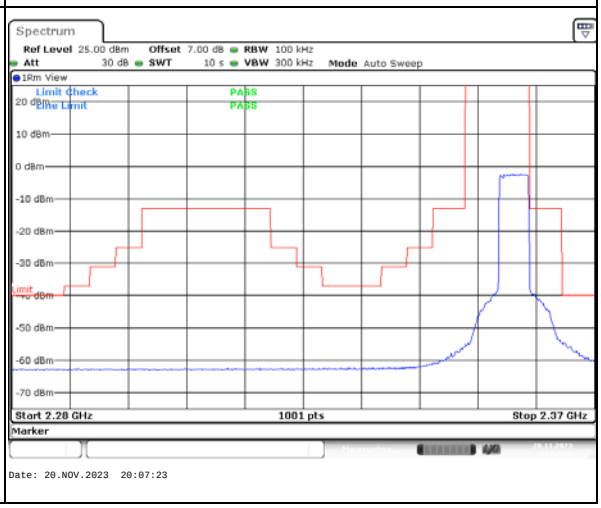
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 5MHz		

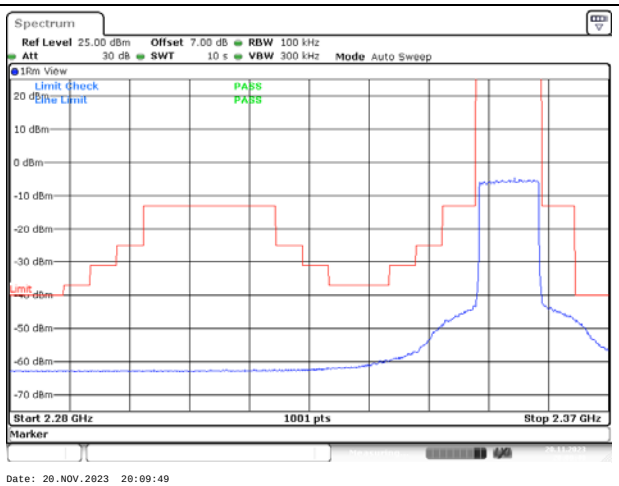
Out of band emission, Band Edge	
Mode	**Middle**
16QAM 10MHz	

2350-2360 MHz:

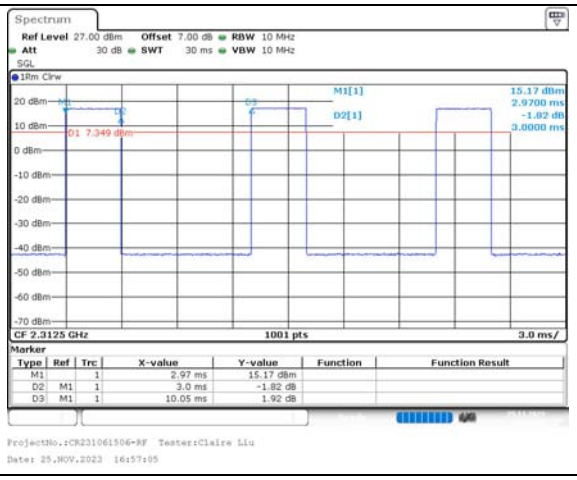
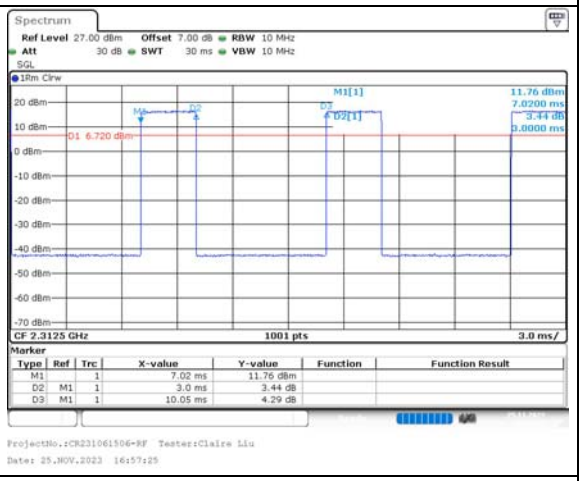
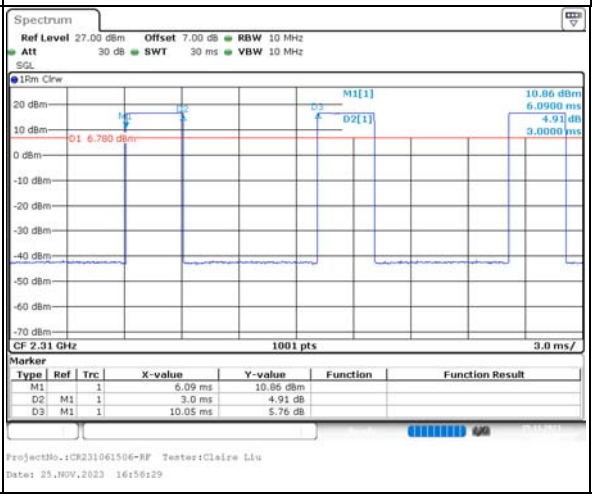
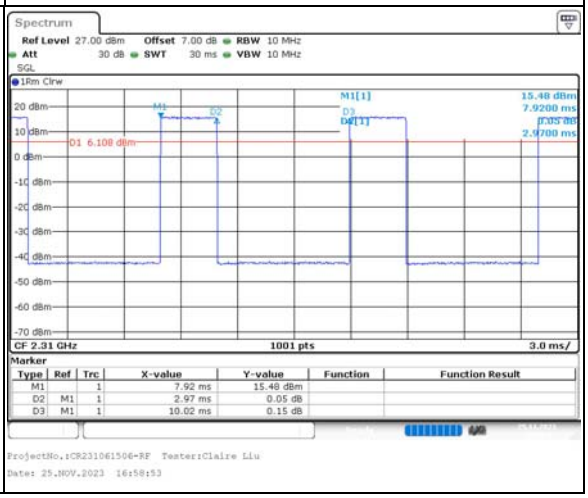
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		

Out of band emission, Band Edge	
Mode	**Middle**
QPSK 10MHz	

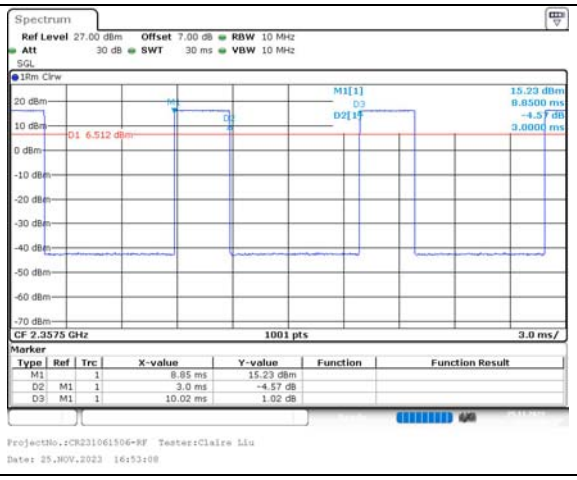
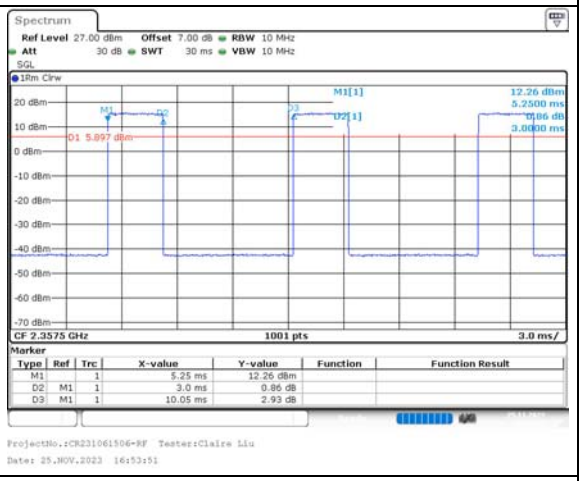
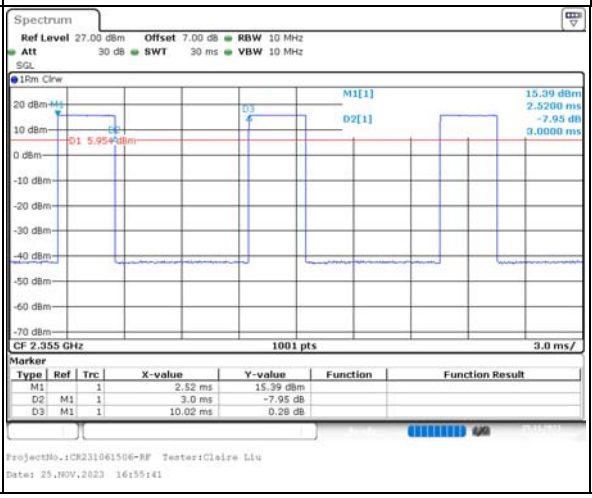
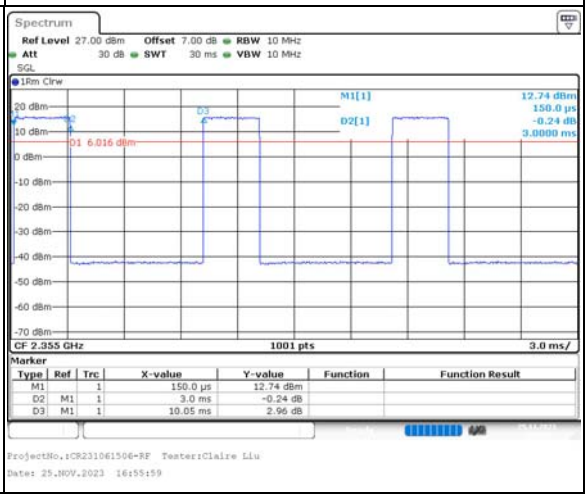
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 5MHz		

Out of band emission, Band Edge	
Mode	**Middle**
16QAM 10MHz	

2305MHz-2315MHz:

Duty Cycle		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
	10MHz Bandwidth QPSK	10MHz Bandwidth QPSK
Lowest		

2350MHz-2360MHz:

Duty Cycle		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
	10MHz Bandwidth QPSK	10MHz Bandwidth QPSK
Lowest		

4.12 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	2CII-1	Test Date:	2023/11/20-2023/12/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.5~26.5	Relative Humidity: (%)	54~64	ATM Pressure: (kPa)	100.1~102

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Minl-Clrcuits	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	2023/9/28	2024/9/27

** 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:

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	18.27	18.09	18.46	16.74	33
	RB1#13	18.38	18.2	**18.62**		
	RB1#24	18.27	18.12	18.55		
	RB15#0	17.3	17.16	17.58		
	RB15#10	17.36	17.19	17.62		
	RB25#0	17.31	17.16	17.56		
5MHz 16QAM	RB1#0	17.6	17.14	17.61	15.86	33
	RB1#13	17.68	17.28	**17.74**		
	RB1#24	17.6	17.17	17.65		
	RB15#0	16.36	16.05	16.58		
	RB15#10	16.38	16.11	16.63		
	RB25#0	16.31	16.19	16.62		
10MHz QPSK	RB1#0	18.31	18.15	18.54	16.77	33
	RB1#25	18.38	18.26	**18.65**		
	RB1#49	18.26	18.25	**18.65**		
	RB25#0	17.27	17.15	17.55		
	RB25#25	17.33	17.2	17.53		
	RB50#0	17.3	17.21	17.59		
10MHz 16QAM	RB1#0	17.6	17.13	17.67	15.92	33
	RB1#25	17.63	17.24	17.77		
	RB1#49	17.58	17.23	**17.8**		
	RB25#0	16.29	16.19	16.64		
	RB25#25	16.33	16.3	16.63		
	RB50#0	16.32	16.23	16.63		
15MHz QPSK	RB1#0	18.27	18.08	18.37	16.75	33
	RB1#38	18.33	18.27	**18.63**		
	RB1#74	18.23	18.24	18.62		
	RB36#0	17.22	17.08	17.47		
	RB36#39	17.28	17.16	17.54		
	RB75#0	17.25	17.13	17.55		
15MHz 16QAM	RB1#0	17.53	17.09	17.64	16.01	33
	RB1#38	17.6	17.21	17.87		
	RB1#74	17.48	17.2	**17.89**		
	RB36#0	16.23	16.05	16.54		
	RB36#39	16.29	16.15	16.64		
	RB75#0	16.23	16.14	16.54		
20MHz QPSK	RB1#0	18.26	17.98	18.25	16.7	33
	RB1#50	18.44	18.22	**18.58**		
	RB1#99	18.27	18.15	18.51		
	RB50#0	17.15	17.11	17.5		

	RB50#50	17.32	17.2	17.55		
	RB100#0	17.23	17.18	17.5		
20MHz 16QAM	RB1#0	17.53	17.13	17.29	15.81	33
	RB1#50	**17.69**	17.35	17.6		
	RB1#99	17.53	17.27	17.57		
	RB50#0	16.18	16.1	16.55		
	RB50#50	16.35	16.18	16.59		
	RB100#0	16.23	16.17	16.51		
Note: EIRP=Conducted Power(dBm) - L_C(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	9.59	9.74	9.39	13
	RB100#0	8.26	8.32	8.23	13
20MHz 16QAM	RB1#0	10.32	10.29	10.06	13
	RB100#0	9.8	9.8	9.77	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
5MHz QPSK	4.511	4.491	4.511	4.92	5.00	4.94
5MHz 16QAM	4.491	4.511	4.511	5.02	4.94	4.96
10MHz QPSK	8.942	8.942	8.942	9.56	9.68	9.64
10MHz 16QAM	8.942	8.942	8.942	9.92	9.52	9.56
15MHz QPSK	13.413	13.473	13.473	14.7	14.58	14.76
15MHz 16QAM	13.473	13.473	13.473	14.88	14.82	14.82
20MHz QPSK	17.884	17.884	17.884	19.2	19.28	19.36
20MHz 16QAM	17.884	17.884	17.884	19.28	19.36	19.12
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.**

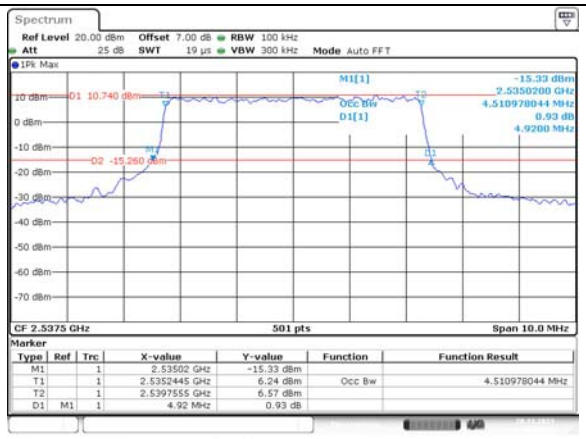
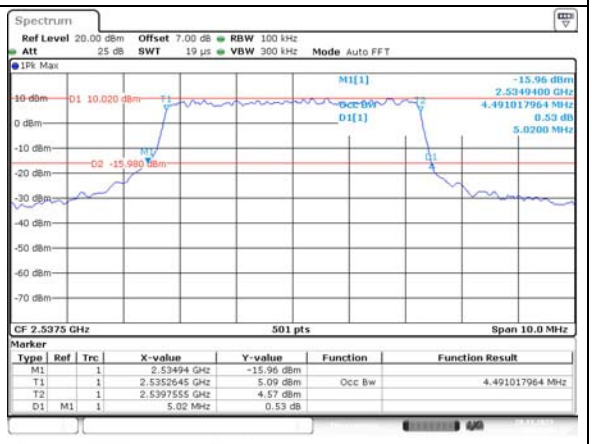
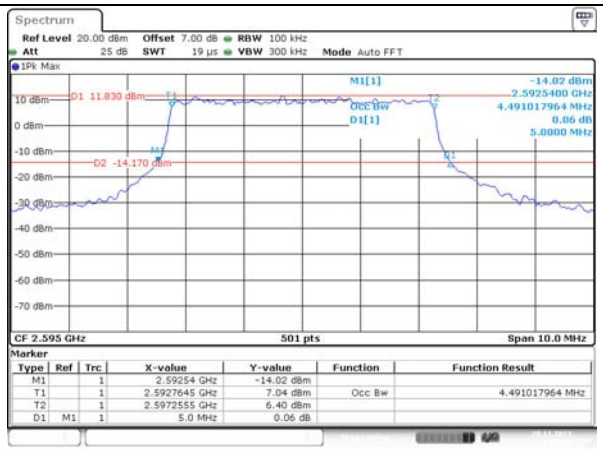
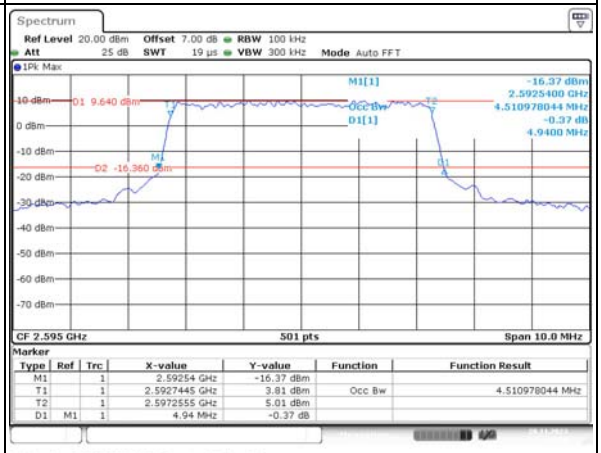
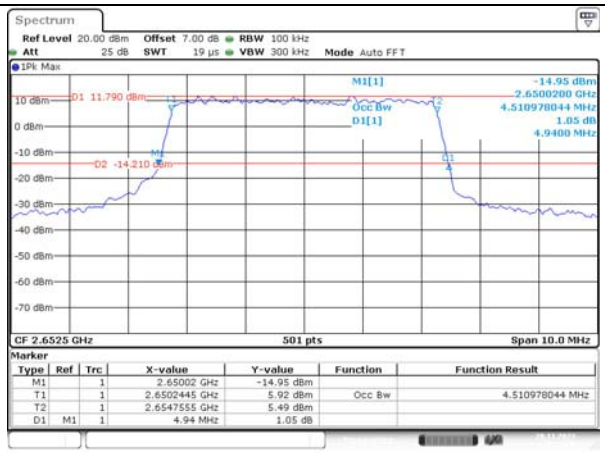
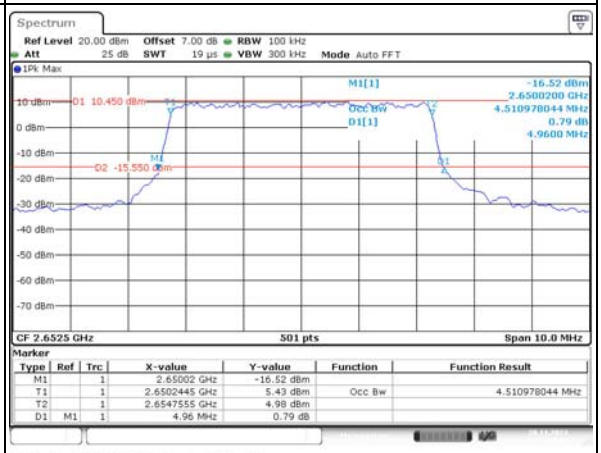
Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

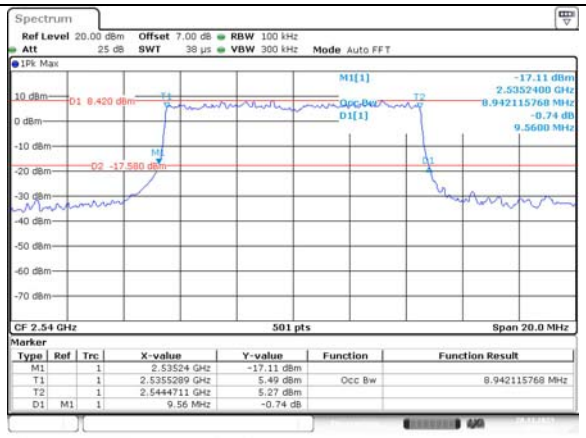
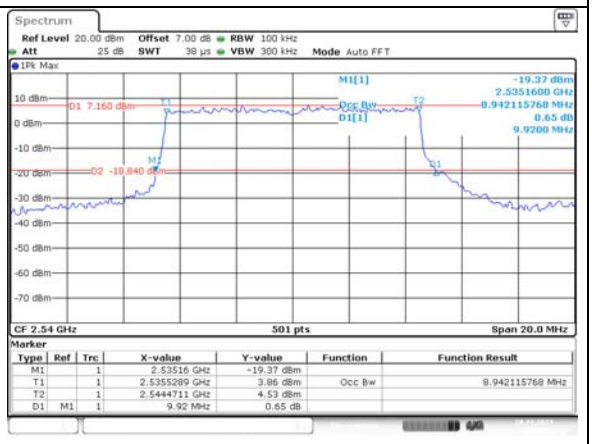
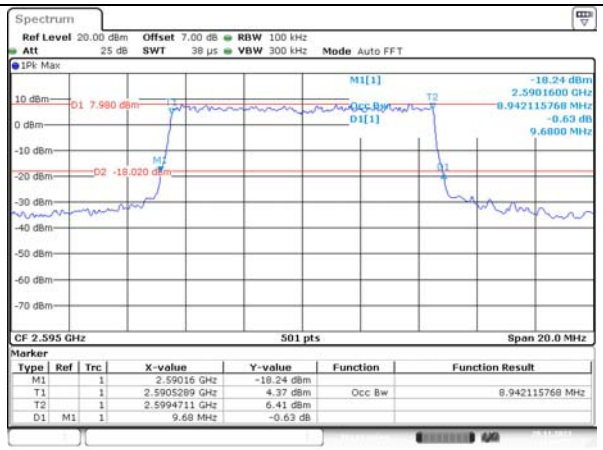
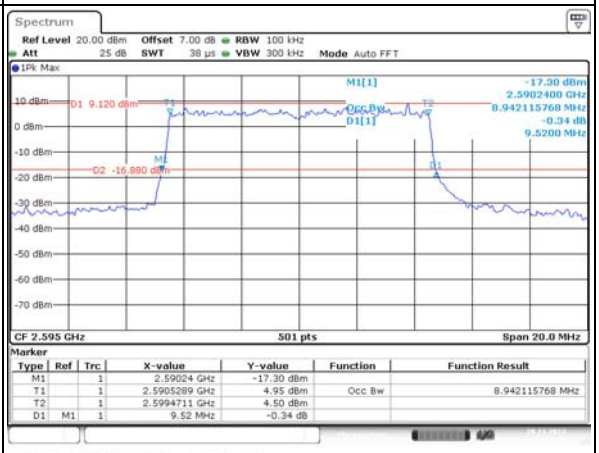
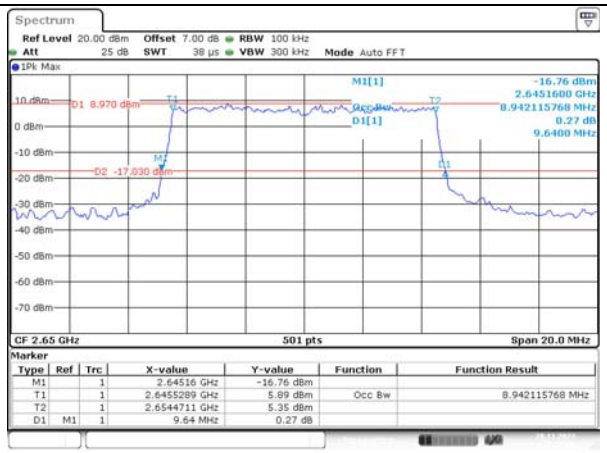
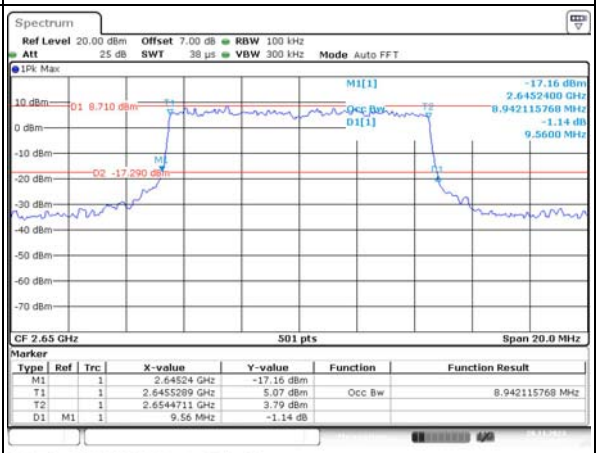
Frequency Stability

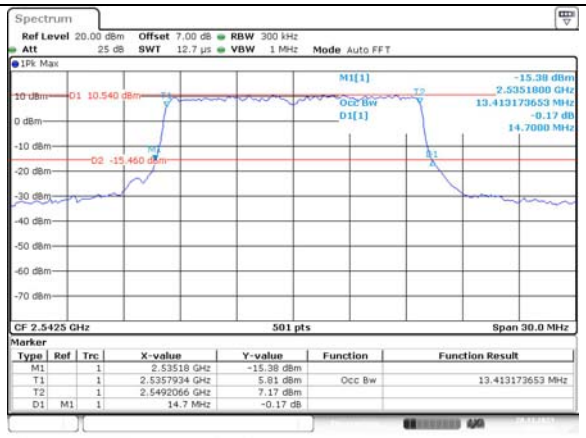
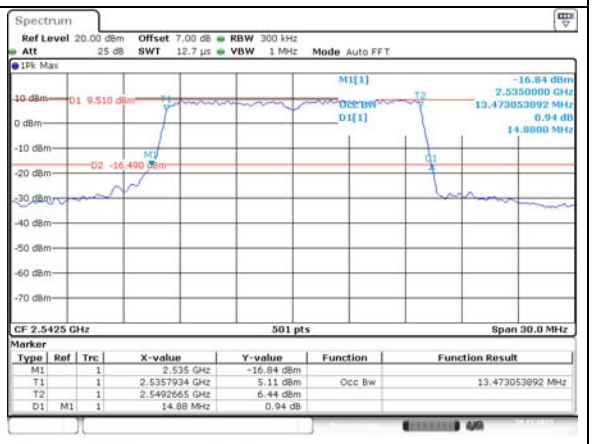
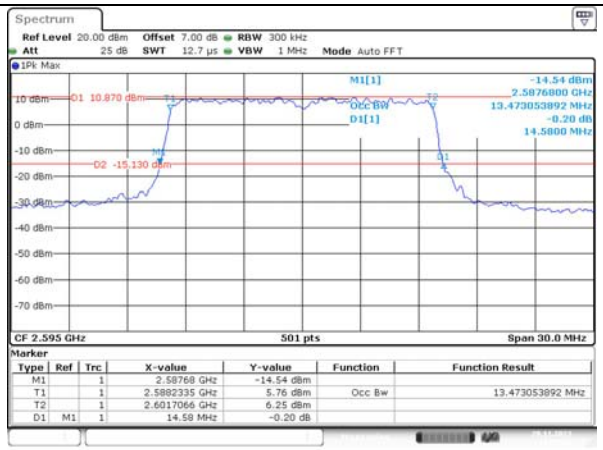
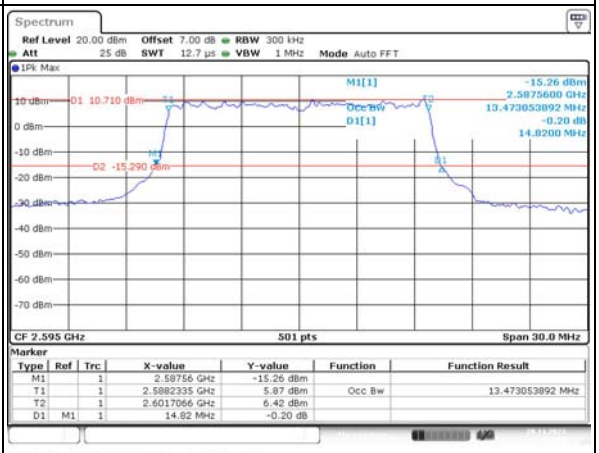
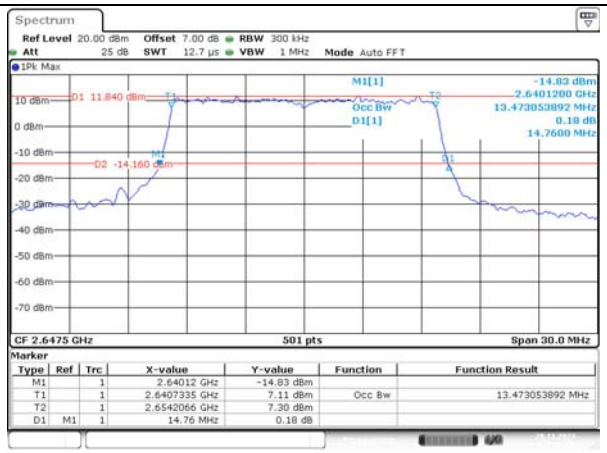
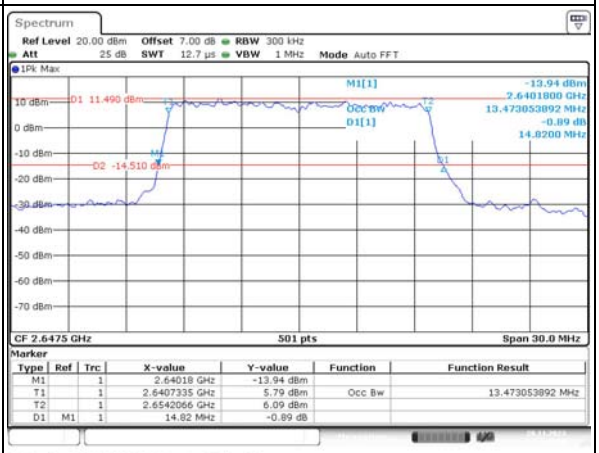
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2535.495	2535.00	2654.574	2655
	-20	3.91	2535.555	2535.00	2654.559	2655
	-10	3.91	2535.508	2535.00	2654.593	2655
	0	3.91	2535.578	2535.00	2654.519	2655
	10	3.91	2535.480	2535.00	2654.588	2655
	20	3.91	2535.480	2535.00	2654.600	2655
	30	3.91	2535.494	2535.00	2654.556	2655
	40	3.91	2535.530	2535.00	2654.586	2655
	50	3.91	2535.529	2535.00	2654.590	2655
Frequency Stability vs. Voltage	20	3.45	2535.497	2535.00	2654.555	2655
	20	4.5	2535.533	2535.00	2654.574	2655
					Result:	**Pass**

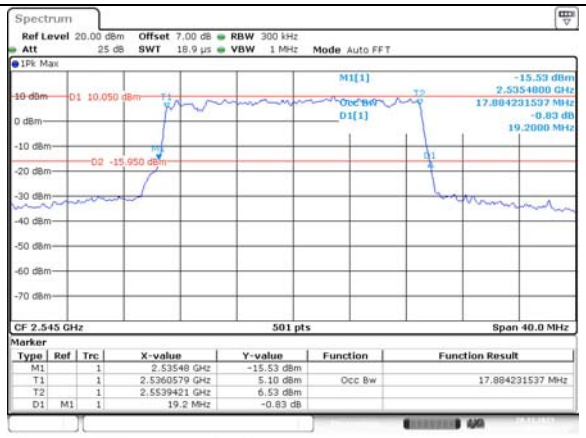
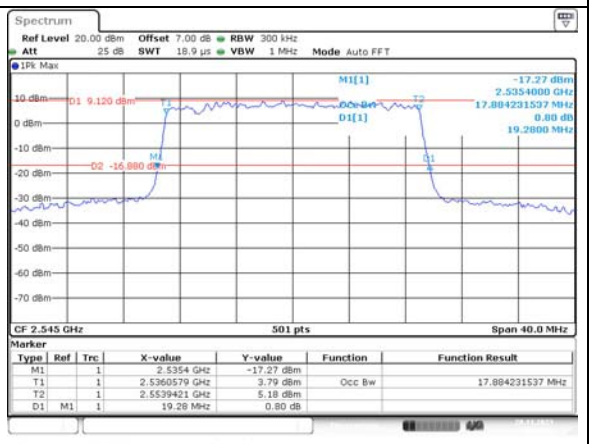
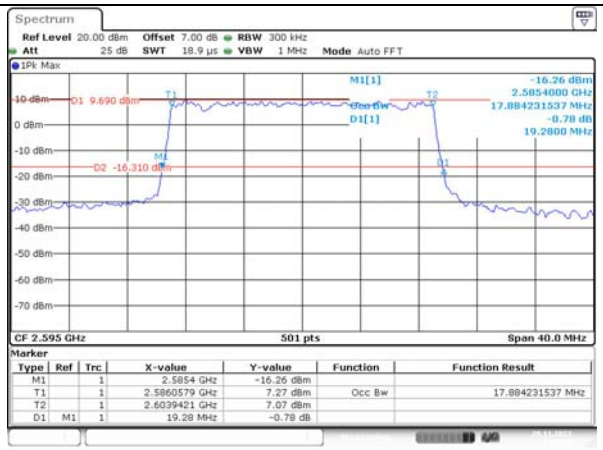
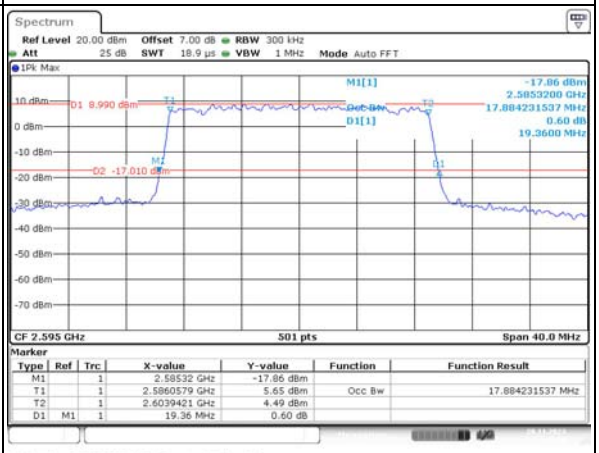
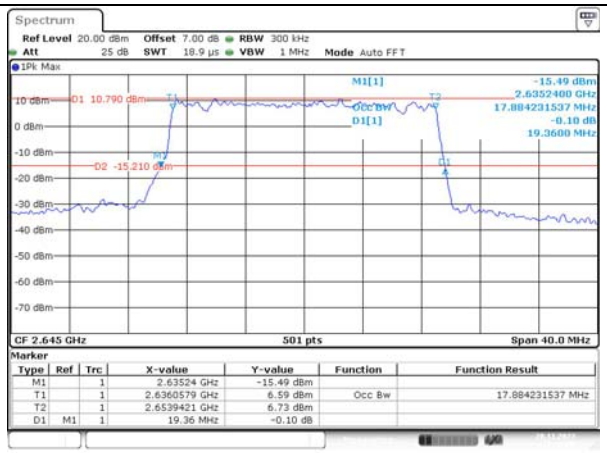
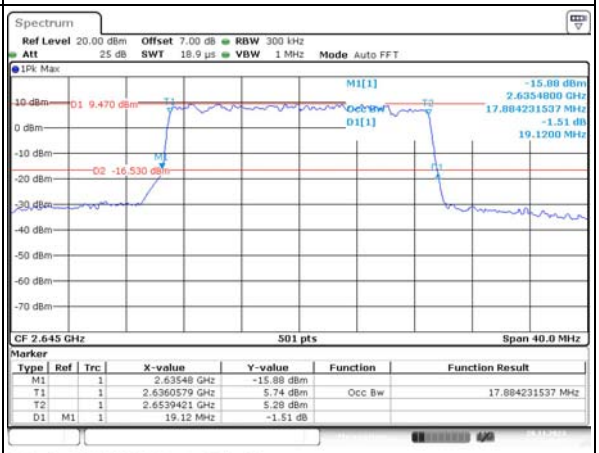
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2535.496	2535.00	2654.575	2655
	-20	3.91	2535.400	2535.00	2654.560	2655
	-10	3.91	2535.476	2535.00	2654.599	2655
	0	3.91	2535.489	2535.00	2654.594	2655
	10	3.91	2535.431	2535.00	2654.540	2655
	20	3.91	2535.400	2535.00	2654.600	2655
	30	3.91	2535.460	2535.00	2654.546	2655
	40	3.91	2535.425	2535.00	2654.541	2655
	50	3.91	2535.451	2535.00	2654.538	2655
Frequency Stability vs. Voltage	20	3.45	2535.468	2535.00	2654.592	2655
	20	4.5	2535.415	2535.00	2654.595	2655
					Result:	**Pass**

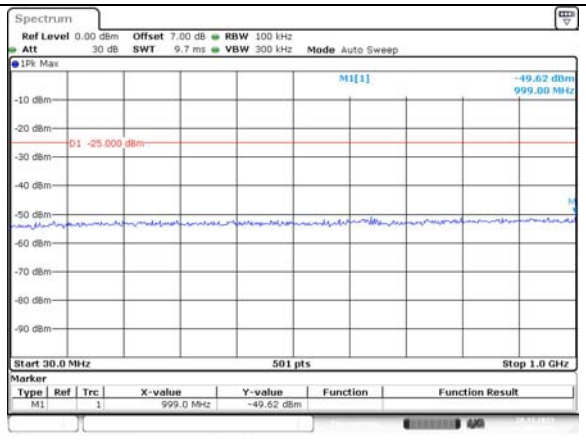
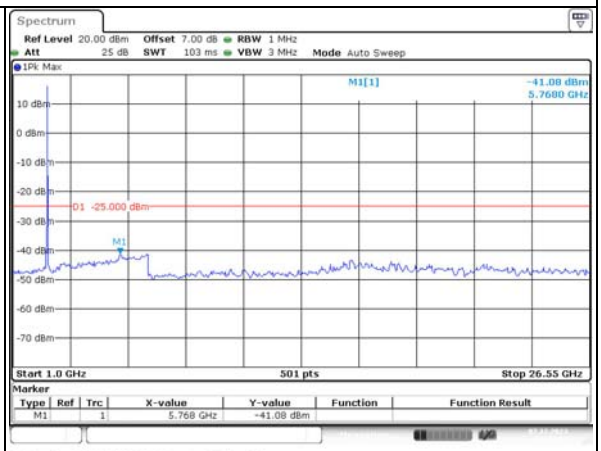
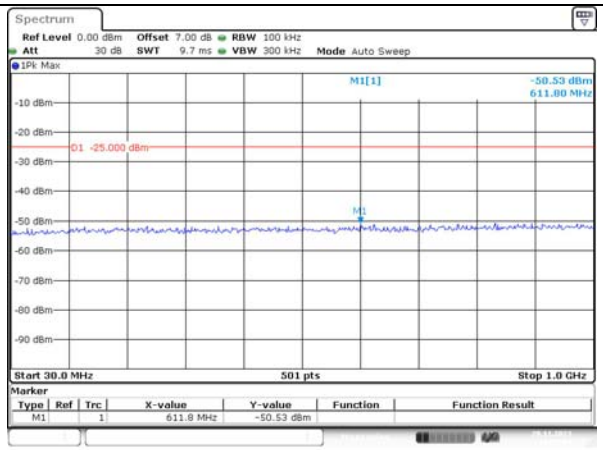
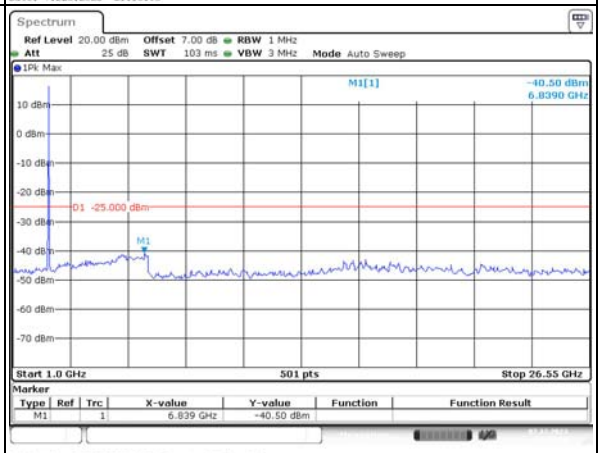
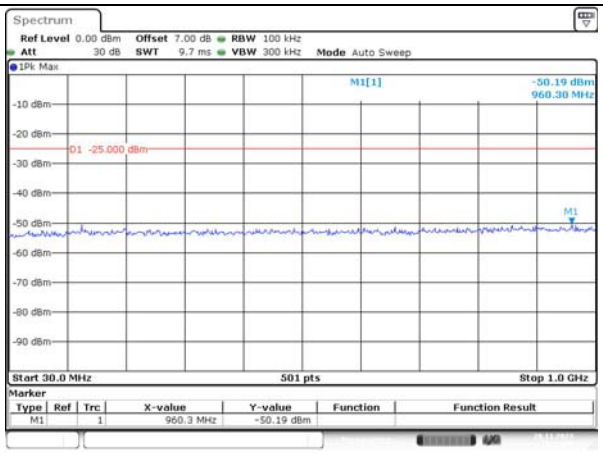
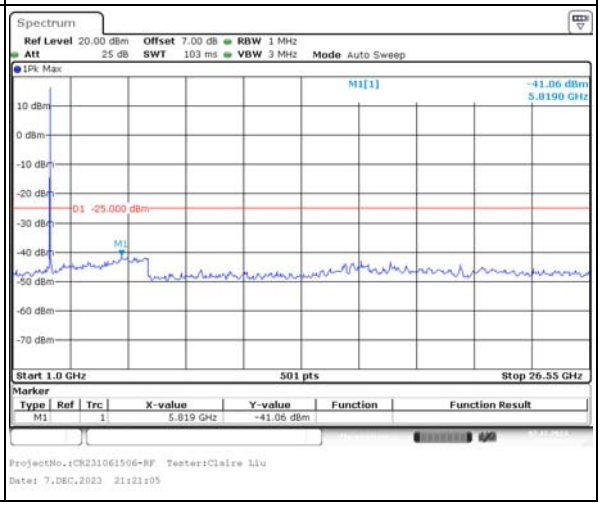
Test Plots (Note: The 7 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

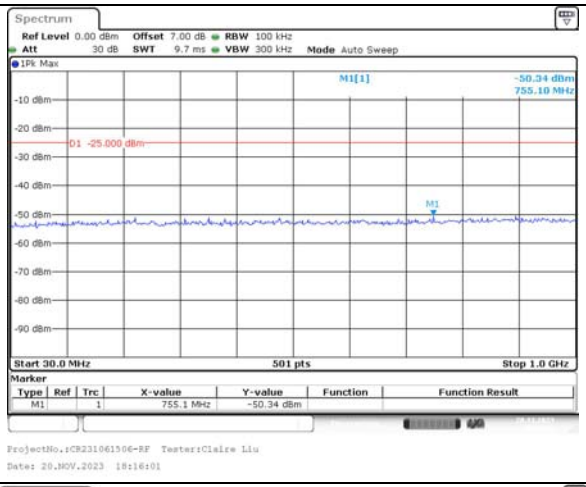
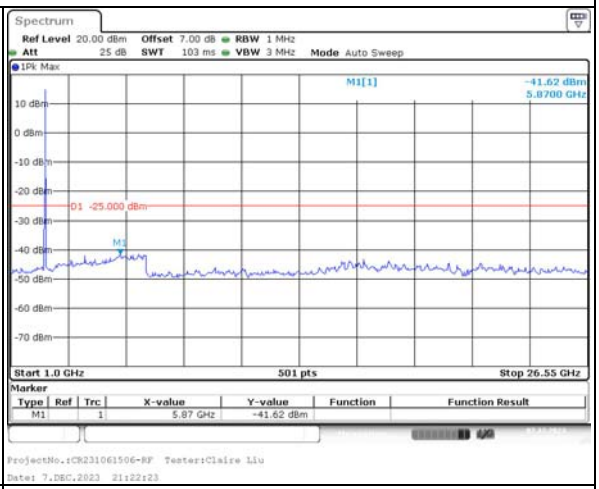
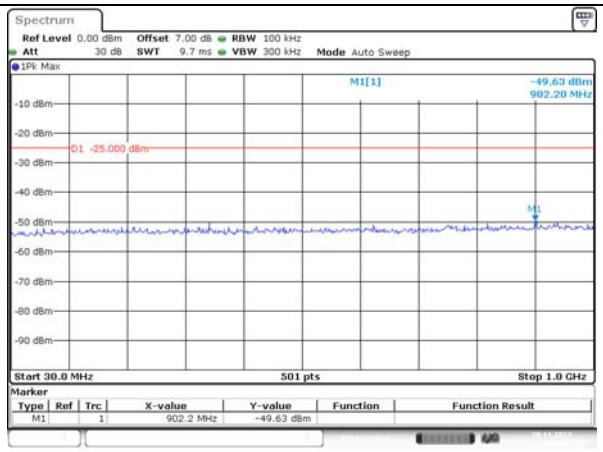
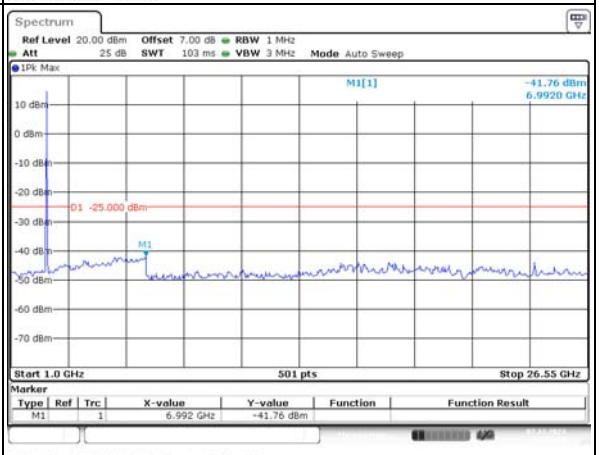
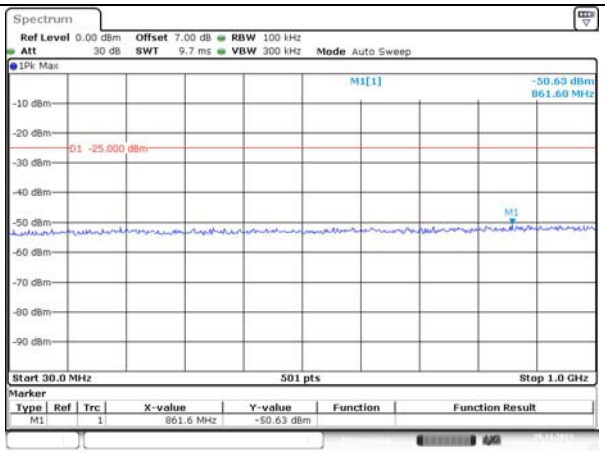
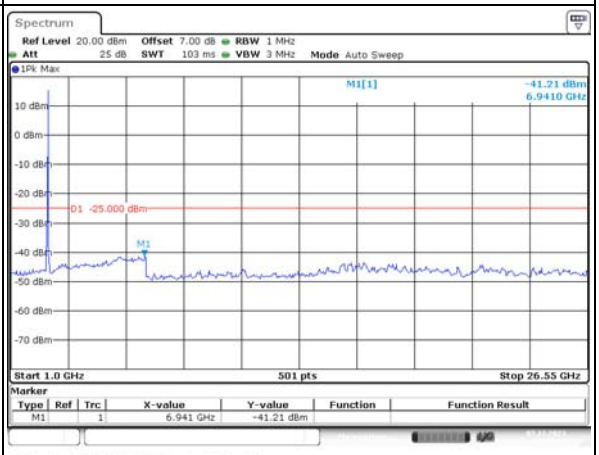
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

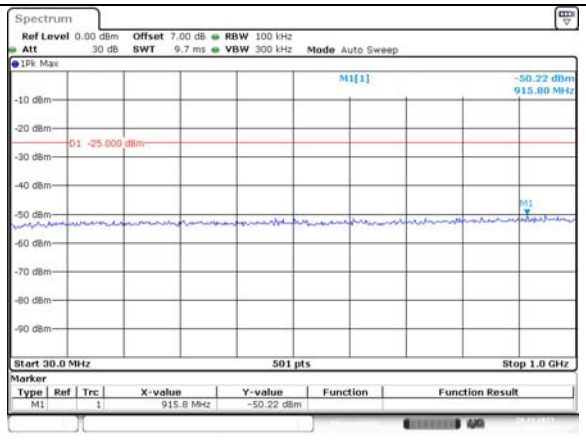
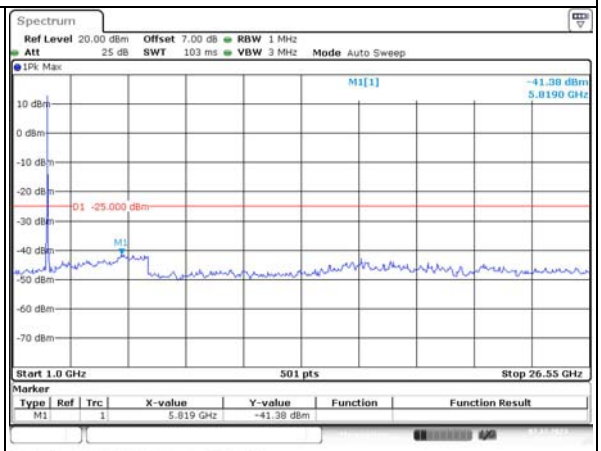
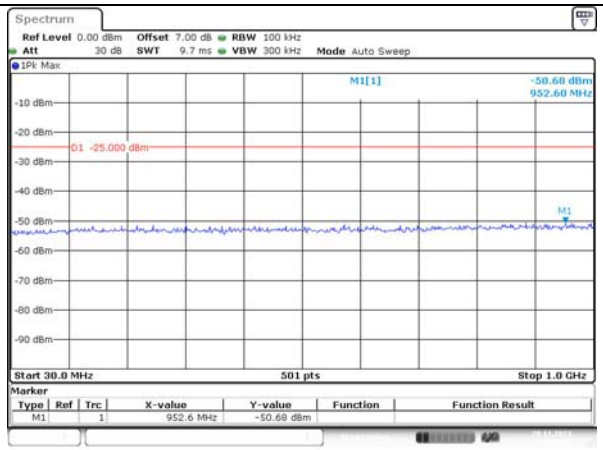
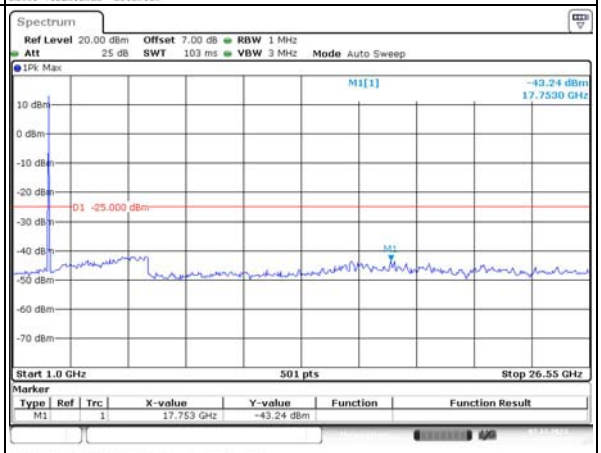
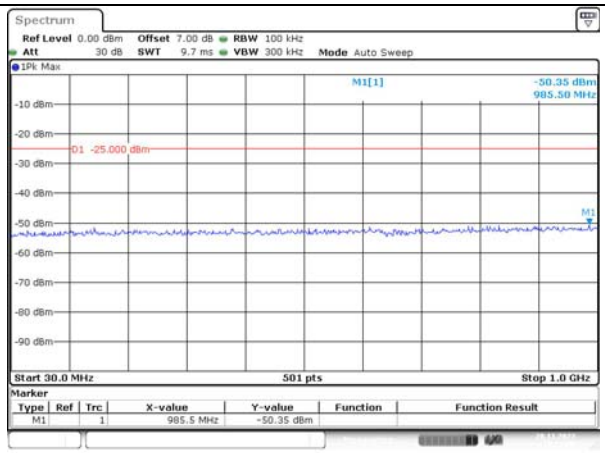
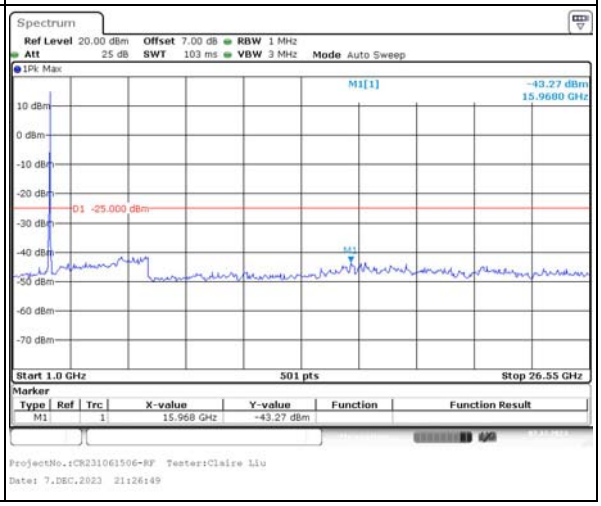
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

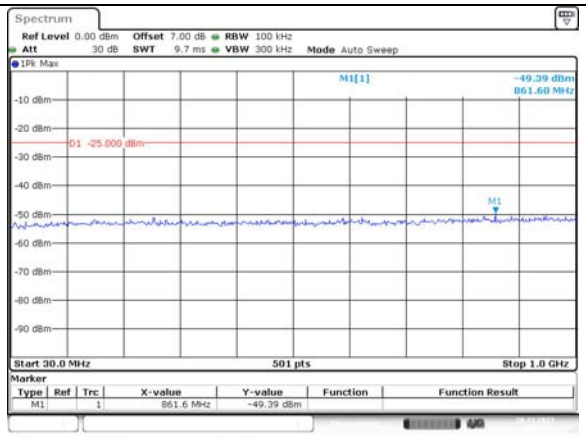
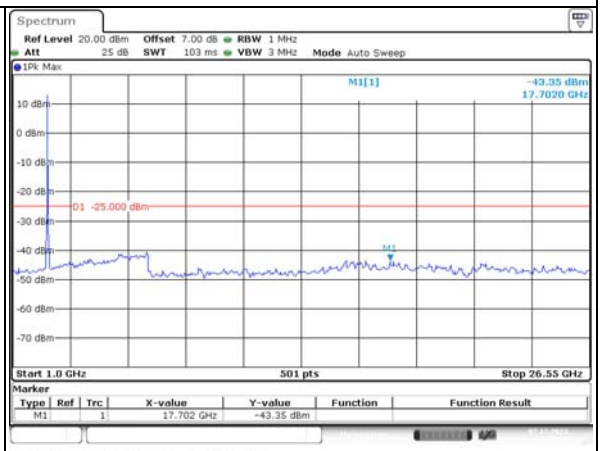
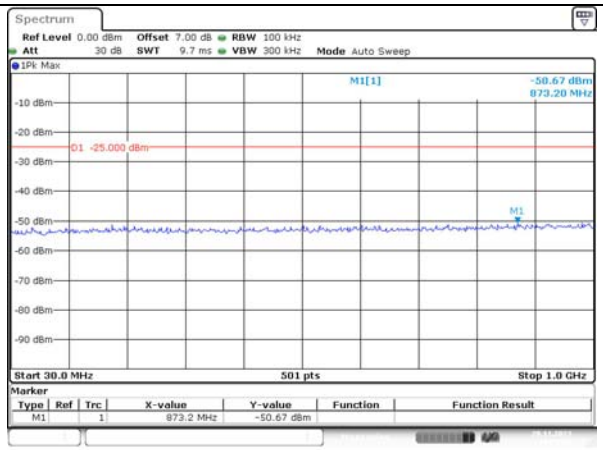
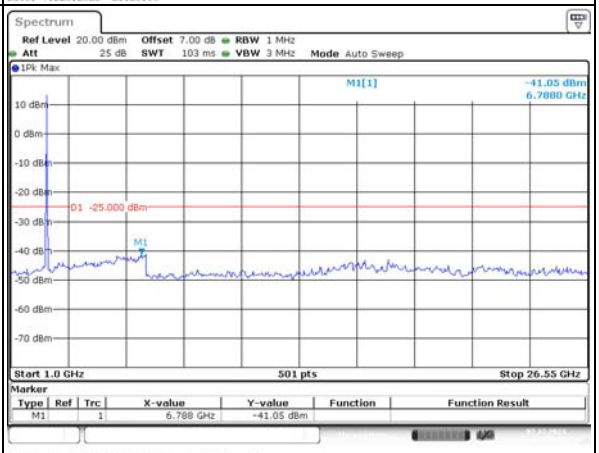
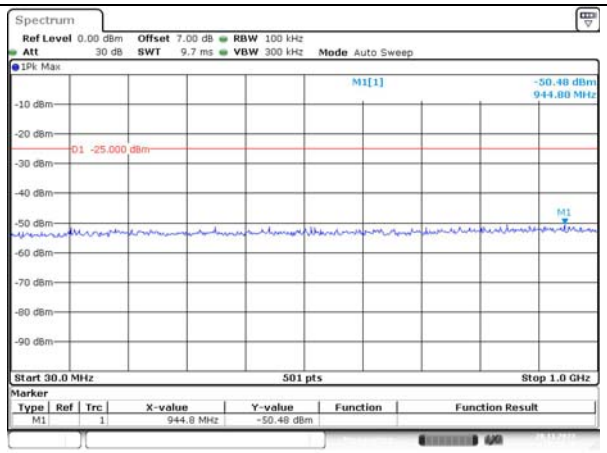
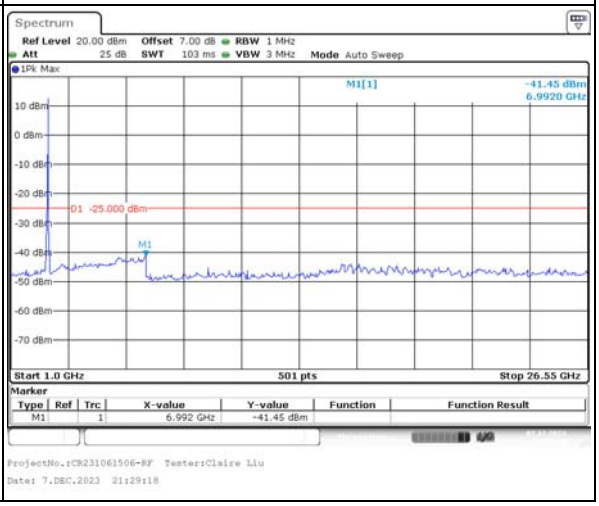
Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

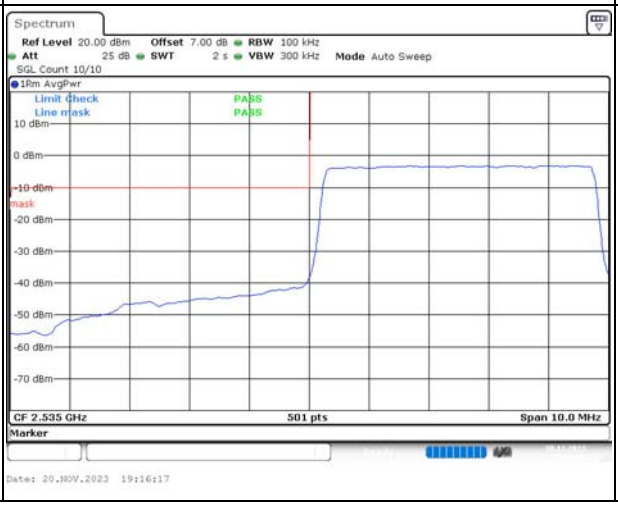
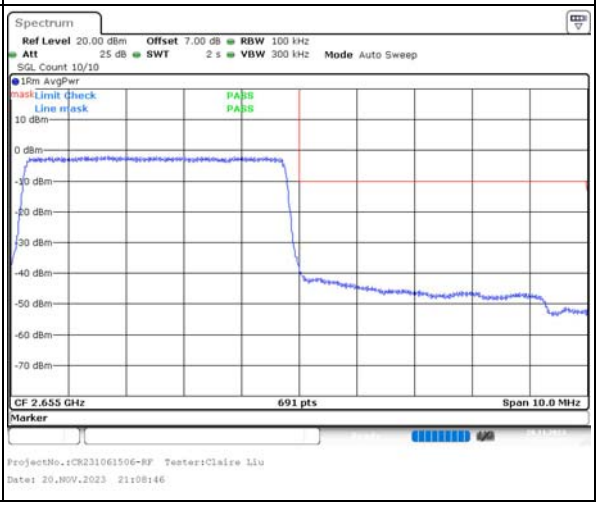
Occupied Bandwidth		
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

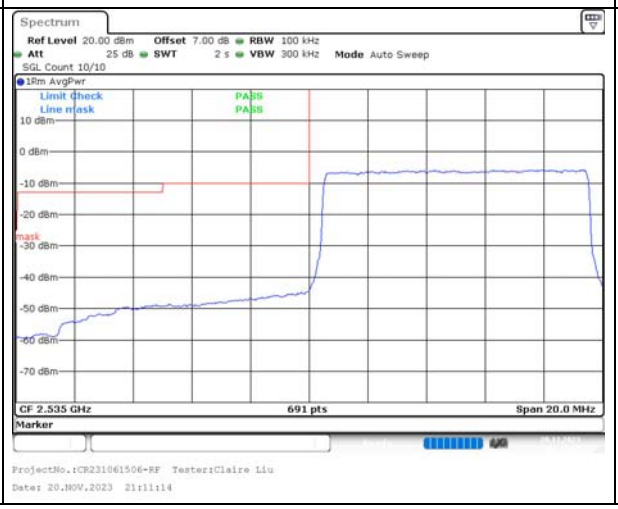
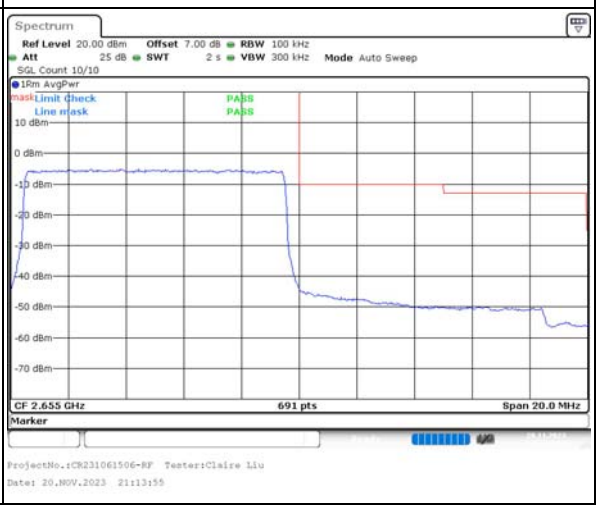
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

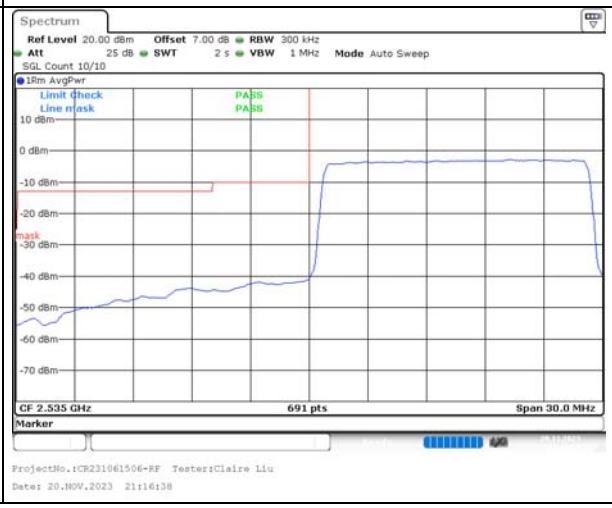
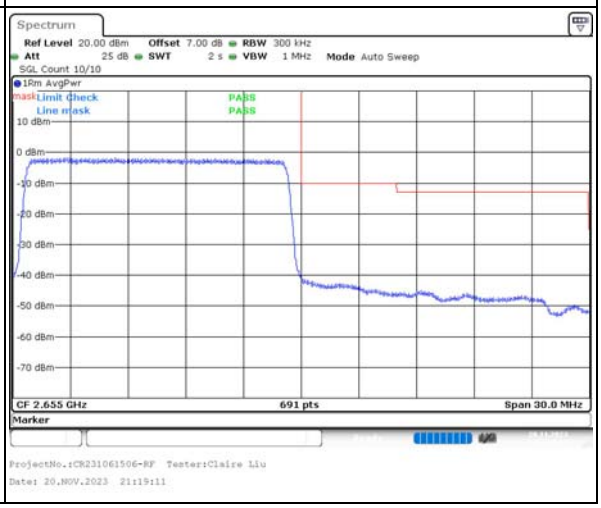
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

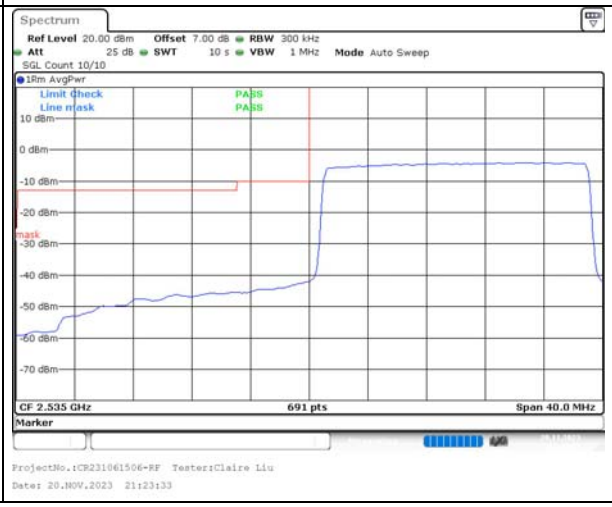
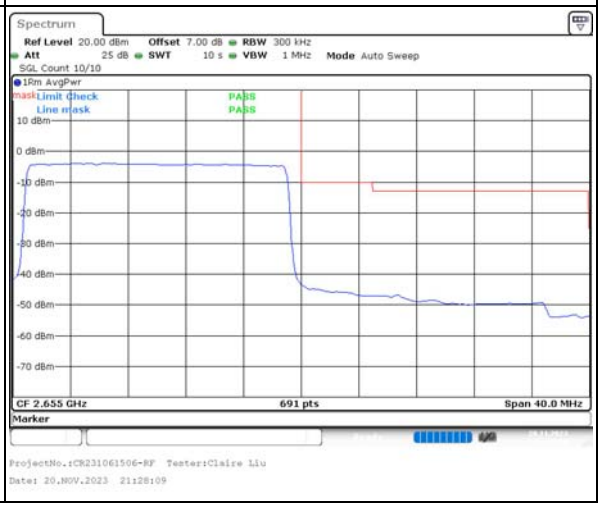
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

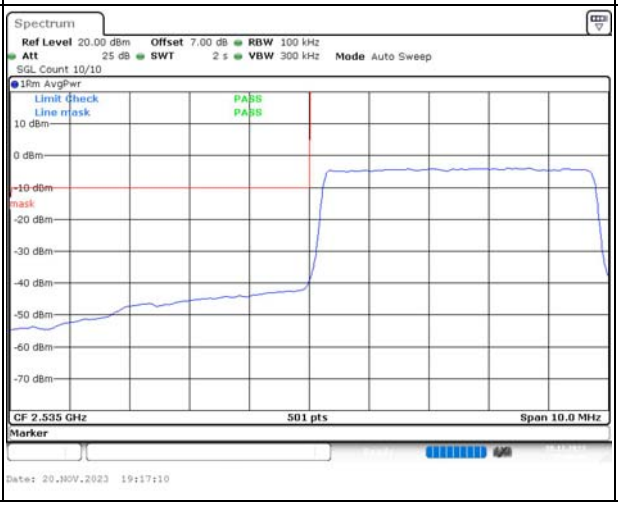
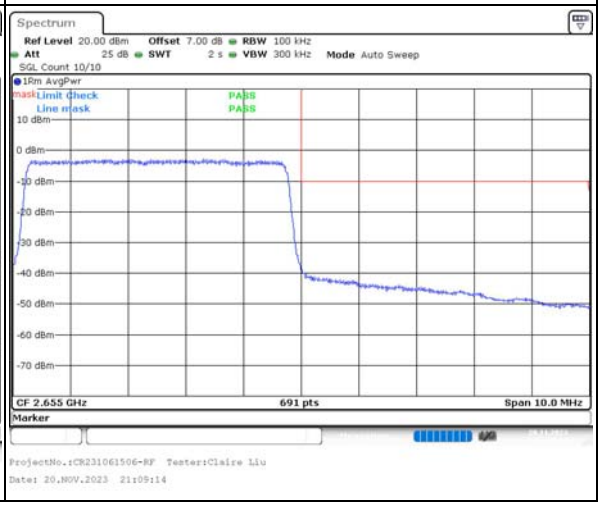
Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

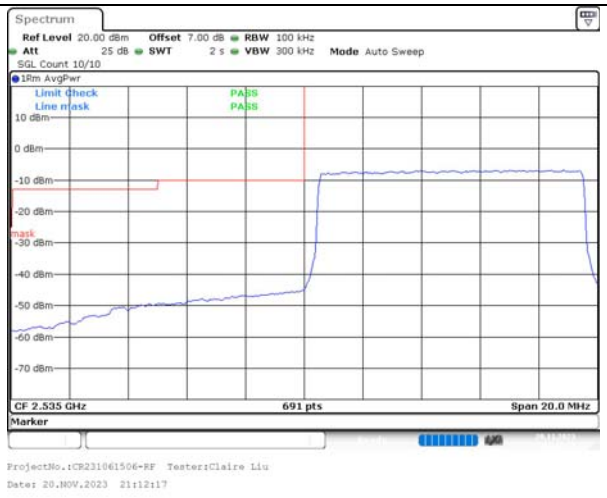
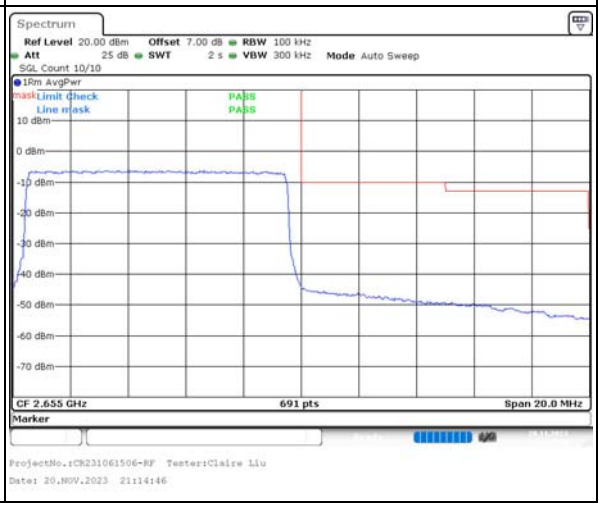
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		

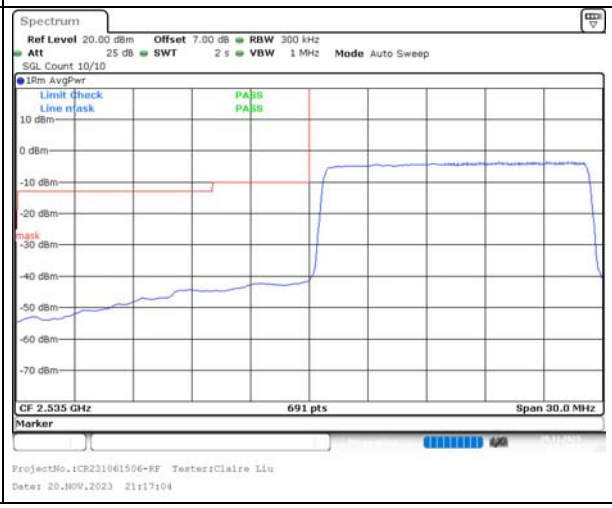
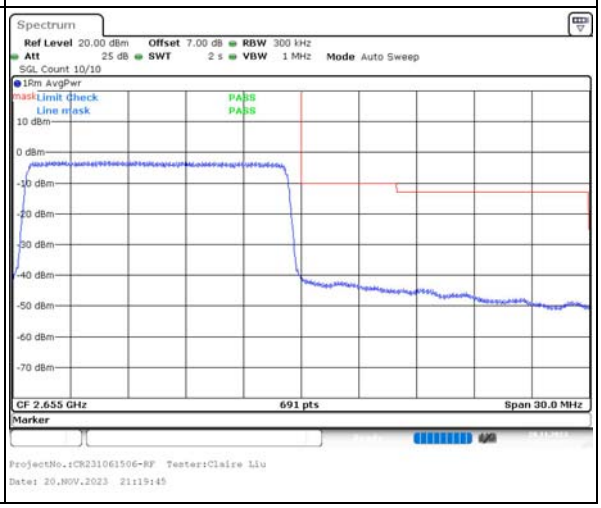
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 10MHz		

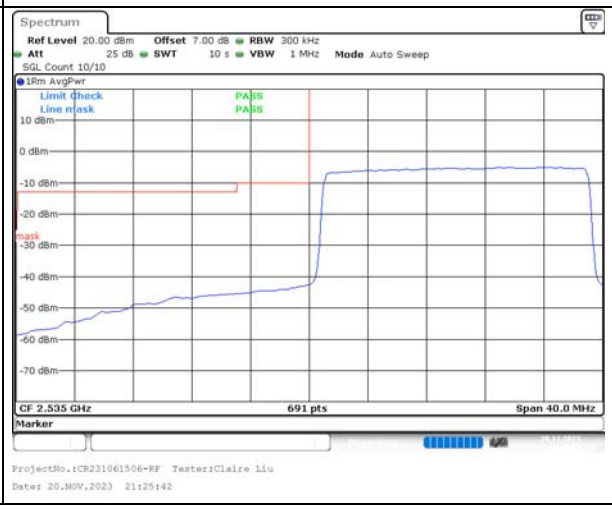
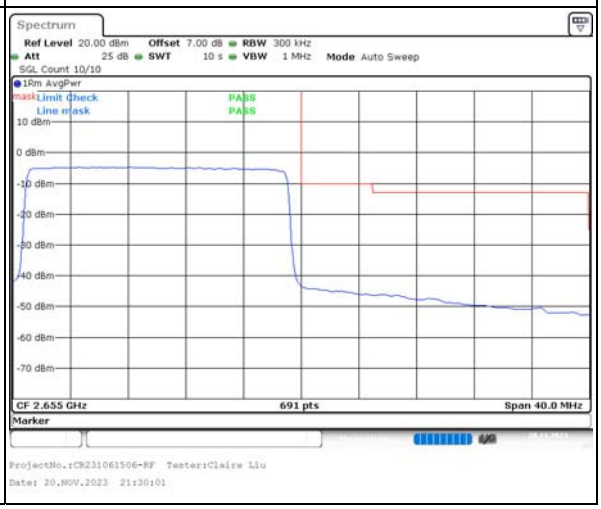
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 15MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 20MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 5MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 10MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 15MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 20MHz		

4.13 Radiated Spurious Emissions

Serial Number:	2CII-5	Test Date:	2023/12/2
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Carl Xue	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	26.8	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.7

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
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	2023/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
PASTERNACK	Horn Antenna	PE9852/2F-20	112001	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4
PASTERNACK	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.

Note: The device can be mounted in multiple orientations, test was performed with X, Y, Z Axis according to C63.26 figure 5, the worst orientation was photographed and it`s data was recorded.

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								
701.97	H	20.90	-83.67	0.00	0.55	-84.22	-13.00	71.22
724.26	V	20.74	-79.92	0.00	0.51	-80.43	-13.00	67.43
1648.400	H	48.16	-56.17	8.68	0.80	-48.29	-13.00	35.29
1648.400	V	36.73	-67.68	8.68	0.80	-59.80	-13.00	46.80
2472.600	H	51.03	-49.75	9.38	1.00	-41.37	-13.00	28.37
2472.600	V	42.30	-58.43	9.38	1.00	-50.05	-13.00	37.05
3296.800	H	35.33	-61.35	10.32	1.15	-52.18	-13.00	39.18
3296.800	V	34.27	-62.17	10.32	1.15	-53.00	-13.00	40.00
GSM 850 Frequency:836.6MHz								
682.57	H	20.98	-83.66	0.00	0.53	-84.19	-13.00	71.19
719.20	V	20.85	-79.94	0.00	0.49	-80.43	-13.00	67.43
1673.200	H	46.50	-57.81	8.71	0.85	-49.95	-13.00	36.95
1673.200	V	37.83	-66.58	8.71	0.85	-58.72	-13.00	45.72
2509.800	H	46.23	-54.38	9.42	1.01	-45.97	-13.00	32.97
2509.800	V	42.33	-58.29	9.42	1.01	-49.88	-13.00	36.88
3346.400	H	35.17	-62.00	10.34	1.16	-52.82	-13.00	39.82
3346.400	V	34.55	-62.48	10.34	1.16	-53.30	-13.00	40.30
GSM 850 Frequency:848.8MHz								
719.40	H	21.18	-82.99	0.00	0.49	-83.48	-13.00	70.48
704.24	V	20.73	-80.44	0.00	0.55	-80.99	-13.00	67.99
1697.600	H	45.90	-58.39	8.74	0.90	-50.55	-13.00	37.55
1697.600	V	38.23	-66.19	8.74	0.90	-58.35	-13.00	45.35
2546.400	H	45.53	-54.80	9.47	1.01	-46.34	-13.00	33.34
2546.400	V	39.45	-60.83	9.47	1.01	-52.37	-13.00	39.37
3395.200	H	37.12	-60.57	10.36	1.19	-51.40	-13.00	38.40
3395.200	V	35.80	-61.86	10.36	1.19	-52.69	-13.00	39.69

PCS Band (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)			
GSM 1900 Frequency:1850.2MHz								
92.46	H	44.94	-67.93	0.00	0.18	-68.11	-13.00	55.11
91.81	V	42.20	-66.71	0.00	0.18	-66.89	-13.00	53.89
3700.400	H	37.02	-60.30	10.60	1.25	-50.95	-13.00	37.95
3700.400	V	35.61	-61.69	10.60	1.25	-52.34	-13.00	39.34
5550.600	H	35.02	-58.24	11.44	1.49	-48.29	-13.00	35.29
5550.600	V	34.08	-59.02	11.44	1.49	-49.07	-13.00	36.07
GSM 1900 Frequency:1880MHz								
86.50	H	45.29	-66.60	0.00	0.17	-66.77	-13.00	53.77
92.46	V	42.38	-66.38	0.00	0.18	-66.56	-13.00	53.56
3760.000	H	37.30	-59.11	10.66	1.24	-49.69	-13.00	36.69
3760.000	V	35.21	-61.08	10.66	1.24	-51.66	-13.00	38.66
5640.000	H	35.53	-57.92	11.33	1.54	-48.13	-13.00	35.13
5640.000	V	34.98	-58.35	11.33	1.54	-48.56	-13.00	35.56
GSM 1900 Frequency:1909.8MHz								
91.49	H	44.58	-68.35	0.00	0.18	-68.53	-13.00	55.53
88.34	V	41.96	-67.25	0.00	0.17	-67.42	-13.00	54.42
3819.600	H	35.62	-60.24	10.72	1.29	-50.81	-13.00	37.81
3819.600	V	34.13	-61.59	10.72	1.29	-52.16	-13.00	39.16
5729.400	H	35.63	-57.85	11.22	1.59	-48.22	-13.00	35.22
5729.400	V	34.63	-58.73	11.22	1.59	-49.10	-13.00	36.10

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								
92.13	H	44.55	-68.34	0.00	0.18	-68.52	-13.00	55.52
87.42	V	42.04	-67.10	0.00	0.17	-67.27	-13.00	54.27
3704.800	H	35.72	-61.54	10.60	1.25	-52.19	-13.00	39.19
3704.800	V	36.12	-61.11	10.60	1.25	-51.76	-13.00	38.76
5557.200	H	34.08	-59.20	11.43	1.49	-49.26	-13.00	36.26
5557.200	V	35.15	-57.98	11.43	1.49	-48.04	-13.00	35.04
WCDMA Band II, Frequency:1880 MHz								
91.49	H	44.40	-68.53	0.00	0.18	-68.71	-13.00	55.71
93.11	V	42.21	-66.40	0.00	0.18	-66.58	-13.00	53.58
3760.000	H	35.17	-61.24	10.66	1.24	-51.82	-13.00	38.82
3760.000	V	36.43	-59.86	10.66	1.24	-50.44	-13.00	37.44
5640.000	H	35.60	-57.85	11.33	1.54	-48.06	-13.00	35.06
5640.000	V	35.41	-57.92	11.33	1.54	-48.13	-13.00	35.13
WCDMA Band II, Frequency:1907.6MHz								
90.53	H	43.97	-69.03	0.00	0.18	-69.21	-13.00	56.21
91.49	V	42.89	-66.10	0.00	0.18	-66.28	-13.00	53.28
3815.200	H	36.66	-59.19	10.72	1.29	-49.76	-13.00	36.76
3815.200	V	34.05	-61.64	10.72	1.29	-52.21	-13.00	39.21
5722.800	H	35.46	-58.03	11.23	1.58	-48.38	-13.00	35.38
5722.800	V	34.09	-59.26	11.23	1.58	-49.61	-13.00	36.61

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			
90.53	H	44.45	-68.55	0.00	0.18	-68.73	-13.00	55.73
92.13	V	42.69	-66.15	0.00	0.18	-66.33	-13.00	53.33
3424.800	H	34.10	-63.67	10.37	1.17	-54.47	-13.00	41.47
3424.800	V	35.19	-62.55	10.37	1.17	-53.35	-13.00	40.35
5137.200	H	34.71	-58.91	11.28	1.46	-49.09	-13.00	36.09
5137.200	V	35.20	-58.30	11.28	1.46	-48.48	-13.00	35.48
			Frequency:	1732.6	MHz			
92.46	H	44.72	-68.15	0.00	0.18	-68.33	-13.00	55.33
89.90	V	41.87	-67.45	0.00	0.18	-67.63	-13.00	54.63
3465.200	H	35.07	-62.74	10.39	1.15	-53.50	-13.00	40.50
3465.200	V	34.23	-63.54	10.39	1.15	-54.30	-13.00	41.30
5197.800	H	34.07	-60.06	11.32	1.44	-50.18	-13.00	37.18
5197.800	V	35.03	-58.95	11.32	1.44	-49.07	-13.00	36.07
			Frequency:	1752.6	MHz			
90.22	H	45.29	-67.73	0.00	0.18	-67.91	-13.00	54.91
88.03	V	42.46	-66.72	0.00	0.17	-66.89	-13.00	53.89
3505.200	H	34.80	-63.03	10.41	1.18	-53.80	-13.00	40.80
3505.200	V	35.48	-62.29	10.41	1.18	-53.06	-13.00	40.06
5257.800	H	35.18	-58.55	11.35	1.47	-48.67	-13.00	35.67
5257.800	V	34.62	-58.89	11.35	1.47	-49.01	-13.00	36.01

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								
714.38	H	20.95	-83.33	0.00	0.50	-83.83	-13.00	70.83
711.88	V	20.91	-80.07	0.00	0.51	-80.58	-13.00	67.58
1652.800	H	36.52	-67.81	8.68	0.81	-59.94	-13.00	46.94
1652.800	V	35.42	-68.99	8.68	0.81	-61.12	-13.00	48.12
2479.200	H	37.43	-63.33	9.39	1.01	-54.95	-13.00	41.95
2479.200	V	35.78	-64.95	9.39	1.01	-56.57	-13.00	43.57
3305.600	H	39.70	-57.03	10.32	1.15	-47.86	-13.00	34.86
3305.600	V	36.12	-60.38	10.32	1.15	-51.21	-13.00	38.21
WCDMA Band 5 Frequency:836.6MHz								
699.52	H	21.14	-83.47	0.00	0.55	-84.02	-13.00	71.02
721.93	V	20.77	-79.95	0.00	0.50	-80.45	-13.00	67.45
1673.200	H	37.52	-66.79	8.71	0.85	-58.93	-13.00	45.93
1673.200	V	36.71	-67.70	8.71	0.85	-59.84	-13.00	46.84
2509.800	H	37.33	-63.28	9.42	1.01	-54.87	-13.00	41.87
2509.800	V	36.59	-64.03	9.42	1.01	-55.62	-13.00	42.62
3346.400	H	44.56	-52.61	10.34	1.16	-43.43	-13.00	30.43
3346.400	V	43.62	-53.41	10.34	1.16	-44.23	-13.00	31.23
WCDMA Band 5 Frequency:846.6MHz								
709.39	H	20.82	-83.58	0.00	0.52	-84.10	-13.00	71.10
566.92	V	20.74	-82.63	0.00	0.46	-83.09	-13.00	70.09
1693.200	H	35.72	-68.58	8.73	0.89	-60.74	-13.00	47.74
1693.200	V	36.32	-68.10	8.73	0.89	-60.26	-13.00	47.26
2539.800	H	34.54	-65.84	9.46	1.01	-57.39	-13.00	44.39
2539.800	V	37.41	-62.93	9.46	1.01	-54.48	-13.00	41.48
3386.400	H	34.01	-63.58	10.35	1.18	-54.41	-13.00	41.41
3386.400	V	46.32	-51.22	10.35	1.18	-42.05	-13.00	29.05

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								
92.13	H	45.62	-67.27	0.00	0.18	-67.45	-13.00	54.45
91.81	V	42.75	-66.16	0.00	0.18	-66.34	-13.00	53.34
3701.400	H	34.72	-62.59	10.60	1.25	-53.24	-13.00	40.24
3701.400	V	34.90	-62.39	10.60	1.25	-53.04	-13.00	40.04
5552.100	H	34.52	-58.75	11.44	1.49	-48.80	-13.00	35.80
5552.100	V	35.98	-57.12	11.44	1.49	-47.17	-13.00	34.17
QPSK, 1.4MHz,Frequency:1880 MHz								
91.49	H	45.13	-67.80	0.00	0.18	-67.98	-13.00	54.98
88.65	V	42.39	-66.84	0.00	0.18	-67.02	-13.00	54.02
3760.000	H	35.64	-60.77	10.66	1.24	-51.35	-13.00	38.35
3760.000	V	34.53	-61.76	10.66	1.24	-52.34	-13.00	39.34
5640.000	H	34.93	-58.52	11.33	1.54	-48.73	-13.00	35.73
5640.000	V	35.30	-58.03	11.33	1.54	-48.24	-13.00	35.24
QPSK, 1.4MHz,Frequency:1909.3 MHz								
92.78	H	44.78	-68.07	0.00	0.18	-68.25	-13.00	55.25
91.49	V	42.45	-66.54	0.00	0.18	-66.72	-13.00	53.72
3818.600	H	35.60	-60.81	10.66	1.24	-51.39	-13.00	38.39
3818.600	V	34.75	-61.54	10.66	1.24	-52.12	-13.00	39.12
5727.900	H	34.93	-58.55	11.23	1.59	-48.91	-13.00	35.91
5727.900	V	35.93	-57.43	11.23	1.59	-47.79	-13.00	34.79

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								
91.81	H	44.53	-68.38	0.00	0.18	-68.56	-13.00	55.56
92.13	V	42.67	-66.17	0.00	0.18	-66.35	-13.00	53.35
3421.400	H	34.94	-62.82	10.37	1.17	-53.62	-13.00	40.62
3421.400	V	35.27	-62.46	10.37	1.17	-53.26	-13.00	40.26
5132.100	H	34.32	-59.25	11.28	1.47	-49.44	-13.00	36.44
5132.100	V	34.83	-58.63	11.28	1.47	-48.82	-13.00	35.82
1.4MHz QPSK, Frequency: 1732.5 MHz								
93.11	H	44.33	-68.49	0.00	0.18	-68.67	-13.00	55.67
92.13	V	42.53	-66.31	0.00	0.18	-66.49	-13.00	53.49
3465.000	H	40.76	-57.05	10.39	1.15	-47.81	-13.00	34.81
3465.000	V	36.29	-61.48	10.39	1.15	-52.24	-13.00	39.24
5197.500	H	35.83	-58.30	11.32	1.44	-48.42	-13.00	35.42
5197.500	V	35.80	-58.18	11.32	1.44	-48.30	-13.00	35.30
1.4MHz QPSK, Frequency: 1754.3 MHz								
92.46	H	44.71	-68.16	0.00	0.18	-68.34	-13.00	55.34
89.28	V	41.92	-67.36	0.00	0.18	-67.54	-13.00	54.54
3508.600	H	35.28	-62.54	10.41	1.19	-53.32	-13.00	40.32
3508.600	V	35.28	-62.48	10.41	1.19	-53.26	-13.00	40.26
5262.900	H	34.30	-59.40	11.36	1.47	-49.51	-13.00	36.51
5262.900	V	36.05	-57.42	11.36	1.47	-47.53	-13.00	34.53

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								
701.85	H	20.72	-83.85	0.00	0.55	-84.40	-13.00	71.40
719.20	V	20.89	-79.90	0.00	0.49	-80.39	-13.00	67.39
1649.400	H	35.44	-68.89	8.68	0.80	-61.01	-13.00	48.01
1649.400	V	35.57	-68.84	8.68	0.80	-60.96	-13.00	47.96
2474.100	H	37.43	-63.35	9.38	1.00	-54.97	-13.00	41.97
2474.100	V	35.55	-65.18	9.38	1.00	-56.80	-13.00	43.80
3298.800	H	34.73	-61.95	10.32	1.15	-52.78	-13.00	39.78
3298.800	V	34.90	-61.54	10.32	1.15	-52.37	-13.00	39.37
QPSK, 1.4MHz, Frequency: 836.5 MHz								
724.33	H	20.90	-83.16	0.00	0.51	-83.67	-13.00	70.67
726.79	V	20.68	-79.92	0.00	0.52	-80.44	-13.00	67.44
1673.000	H	36.07	-68.24	8.71	0.85	-60.38	-13.00	47.38
1673.000	V	37.01	-67.40	8.71	0.85	-59.54	-13.00	46.54
2509.500	H	39.32	-61.29	9.42	1.01	-52.88	-13.00	39.88
2509.500	V	40.54	-60.08	9.42	1.01	-51.67	-13.00	38.67
3346.000	H	48.64	-48.52	10.34	1.16	-39.34	-13.00	26.34
3346.000	V	46.62	-50.40	10.34	1.16	-41.22	-13.00	28.22
QPSK, 1.4MHz, Frequency: 848.3 MHz								
696.95	H	20.86	-83.76	0.00	0.55	-84.31	-13.00	71.31
629.56	V	20.83	-82.16	0.00	0.48	-82.64	-13.00	69.64
1696.600	H	36.25	-68.04	8.74	0.89	-60.19	-13.00	47.19
1696.600	V	36.84	-67.58	8.74	0.89	-59.73	-13.00	46.73
2544.900	H	40.93	-59.41	9.47	1.01	-50.95	-13.00	37.95
2544.900	V	35.14	-65.16	9.47	1.01	-56.70	-13.00	43.70
3393.200	H	35.67	-62.00	10.36	1.19	-52.83	-13.00	39.83
3393.200	V	34.08	-63.55	10.36	1.19	-54.38	-13.00	41.38

LTE Band 7(30MHz-26GHz):

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								
92.13	H	45.07	-67.82	0.00	0.18	-68.00	-25.00	43.00
93.11	V	41.91	-66.70	0.00	0.18	-66.88	-25.00	41.88
5005.000	H	34.39	-58.57	11.20	1.47	-48.84	-25.00	23.84
5005.000	V	35.85	-56.97	11.20	1.47	-47.24	-25.00	22.24
7507.500	H	43.42	-46.37	10.90	1.95	-37.42	-25.00	12.42
7507.500	V	42.74	-47.55	10.90	1.95	-38.60	-25.00	13.60
5MHz QPSK, Frequency: 2535 MHz								
93.11	H	44.70	-68.12	0.00	0.18	-68.30	-25.00	43.30
87.72	V	41.87	-67.29	0.00	0.17	-67.46	-25.00	42.46
5070.000	H	36.80	-56.39	11.24	1.47	-46.62	-25.00	21.62
5070.000	V	36.69	-56.40	11.24	1.47	-46.63	-25.00	21.63
7605.000	H	37.24	-52.23	10.88	2.01	-43.36	-25.00	18.36
7605.000	V	39.03	-51.16	10.88	2.01	-42.29	-25.00	17.29
5MHz QPSK, Frequency: 2567.5 MHz								
91.49	H	44.54	-68.39	0.00	0.18	-68.57	-25.00	43.57
92.78	V	42.27	-66.42	0.00	0.18	-66.60	-25.00	41.60
5135.000	H	39.49	-54.11	11.28	1.47	-44.30	-25.00	19.30
5135.000	V	36.22	-57.27	11.28	1.47	-47.46	-25.00	22.46
7702.500	H	40.51	-49.01	10.86	1.97	-40.12	-25.00	15.12
7702.500	V	40.85	-49.33	10.86	1.97	-40.44	-25.00	15.44

LTE Band 38_5MHz_QPSK(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								
92.78	H	44.50	-68.35	0.00	0.18	-68.53	-25.00	43.53
92.13	V	42.36	-66.48	0.00	0.18	-66.66	-25.00	41.66
5005.000	H	37.26	-55.70	11.20	1.47	-45.97	-25.00	20.97
5005.000	V	37.49	-55.33	11.20	1.47	-45.60	-25.00	20.60
7507.500	H	40.39	-49.40	10.90	1.95	-40.45	-25.00	15.45
7507.500	V	39.29	-51.00	10.90	1.95	-42.05	-25.00	17.05
5MHz QPSK, Frequency: 2595 MHz								
90.85	H	44.72	-68.25	0.00	0.18	-68.43	-25.00	43.43
90.22	V	41.75	-67.53	0.00	0.18	-67.71	-25.00	42.71
5070.000	H	41.22	-51.97	11.24	1.47	-42.20	-25.00	17.20
5070.000	V	36.45	-56.64	11.24	1.47	-46.87	-25.00	21.87
7605.000	H	44.95	-44.52	10.88	2.01	-35.65	-25.00	10.65
7605.000	V	42.66	-47.53	10.88	2.01	-38.66	-25.00	13.66
5MHz QPSK, Frequency: 2617.5 MHz								
92.13	H	44.85	-68.04	0.00	0.18	-68.22	-25.00	43.22
92.78	V	42.16	-66.53	0.00	0.18	-66.71	-25.00	41.71
5135.000	H	47.40	-46.20	11.28	1.47	-36.39	-25.00	11.39
5135.000	V	38.97	-54.52	11.28	1.47	-44.71	-25.00	19.71
7702.500	H	48.05	-41.47	10.86	1.97	-32.58	-25.00	7.58
7702.500	V	43.86	-46.32	10.86	1.97	-37.43	-25.00	12.43

LTE Band 40 Lower(30MHz-24GHz):

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								
92.13	H	45.15	-67.74	0.00	0.18	-67.92	-40.00	27.92
91.81	V	42.06	-66.85	0.00	0.18	-67.03	-40.00	27.03
4615.000	H	34.90	-60.46	10.74	1.41	-51.13	-40.00	11.13
4615.000	V	34.92	-60.30	10.74	1.41	-50.97	-40.00	10.97
6922.500	H	37.18	-53.84	11.22	1.88	-44.50	-40.00	4.50
6922.500	V	36.79	-54.10	11.22	1.88	-44.76	-40.00	4.76
5MHz QPSK, Frequency: 2312.5 MHz								
92.78	H	44.63	-68.22	0.00	0.18	-68.40	-40.00	28.40
88.96	V	41.90	-67.35	0.00	0.18	-67.53	-40.00	27.53
4625.000	H	35.44	-59.85	10.75	1.41	-50.51	-40.00	10.51
4625.000	V	34.22	-60.95	10.75	1.41	-51.61	-40.00	11.61
6937.500	H	36.23	-54.75	11.21	1.90	-45.44	-40.00	5.44
6937.500	V	37.09	-53.75	11.21	1.90	-44.44	-40.00	4.44

LTE Band 40 Upper(30MHz-24GHz):

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								
91.81	H	44.61	-68.30	0.00	0.18	-68.48	-40.00	28.48
92.78	V	41.94	-66.75	0.00	0.18	-66.93	-40.00	26.93
4705.000	H	35.18	-59.60	10.85	1.41	-50.16	-40.00	10.16
4705.000	V	34.83	-59.97	10.85	1.41	-50.53	-40.00	10.53
7057.500	H	36.25	-53.76	11.17	1.92	-44.51	-40.00	4.51
7057.500	V	37.00	-52.90	11.17	1.92	-43.65	-40.00	3.65
5MHz QPSK, Frequency: 2357.5 MHz								
91.49	H	44.69	-68.24	0.00	0.18	-68.42	-40.00	28.42
92.46	V	41.73	-67.03	0.00	0.18	-67.21	-40.00	27.21
4715.000	H	35.22	-59.49	10.86	1.41	-50.04	-40.00	10.04
4715.000	V	34.38	-60.33	10.86	1.41	-50.88	-40.00	10.88
7072.500	H	35.31	-54.49	11.16	1.91	-45.24	-40.00	5.24
7072.500	V	35.94	-53.77	11.16	1.91	-44.52	-40.00	4.52

LTE Band 41(30MHz-26.55GHz):

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								
92.45	H	44.22	-68.65	0.00	0.18	-68.83	-25.00	43.83
92.13	V	42.16	-66.68	0.00	0.18	-66.86	-25.00	41.86
4997.000	H	35.97	-56.97	11.20	1.48	-47.25	-25.00	22.25
4997.000	V	34.65	-58.15	11.20	1.48	-48.43	-25.00	23.43
7495.500	H	37.79	-52.00	10.90	1.94	-43.04	-25.00	18.04
7495.500	V	38.97	-51.32	10.90	1.94	-42.36	-25.00	17.36
QPSK, 5MHz, Frequency:2595 MHz								
93.43	H	44.67	-68.13	0.00	0.18	-68.31	-25.00	43.31
92.78	V	41.80	-66.89	0.00	0.18	-67.07	-25.00	42.07
5186.000	H	35.34	-58.69	11.31	1.44	-48.82	-25.00	23.82
5186.000	V	34.22	-59.67	11.31	1.44	-49.80	-25.00	24.80
7779.000	H	38.84	-50.65	10.84	1.99	-41.80	-25.00	16.80
7779.000	V	39.45	-50.49	10.84	1.99	-41.64	-25.00	16.64
QPSK, 5MHz, Frequency: 2652.5 MHz								
91.49	H	44.88	-68.05	0.00	0.18	-68.23	-25.00	43.23
87.72	V	41.87	-67.29	0.00	0.17	-67.46	-25.00	42.46
5375.000	H	40.41	-53.10	11.43	1.49	-43.16	-25.00	18.16
5375.000	V	34.75	-58.75	11.43	1.49	-48.81	-25.00	23.81
8062.500	H	39.04	-49.18	10.81	2.12	-40.49	-25.00	15.49
8062.500	V	38.47	-50.25	10.81	2.12	-41.56	-25.00	16.56

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 CR231061506-EXP EUT EXTERNAL PHOTOGRAPHS and CR231061506-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231061506-00G-TSP TEST SETUP PHOTOGRAPHS.

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