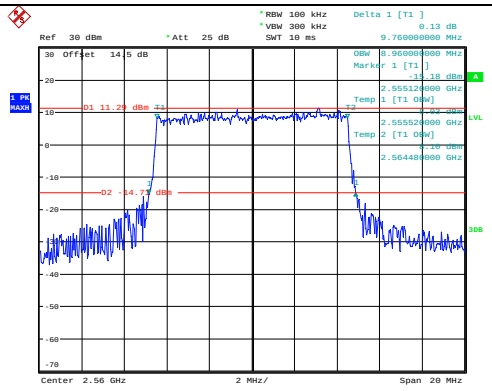
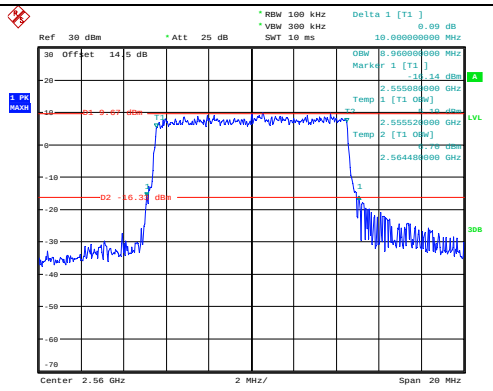
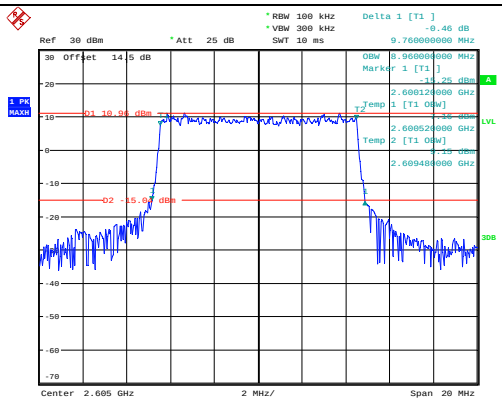
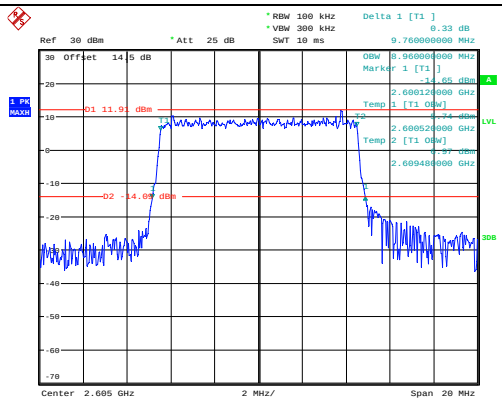
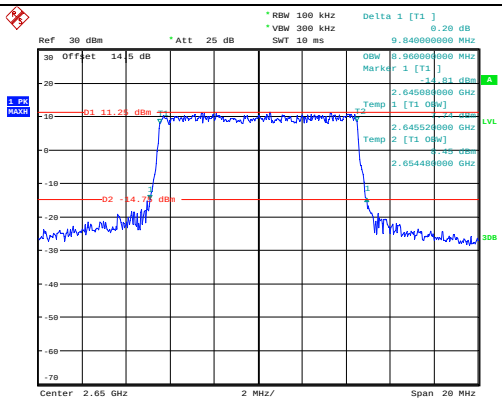
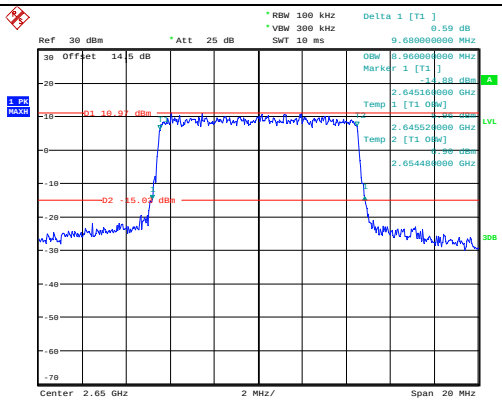
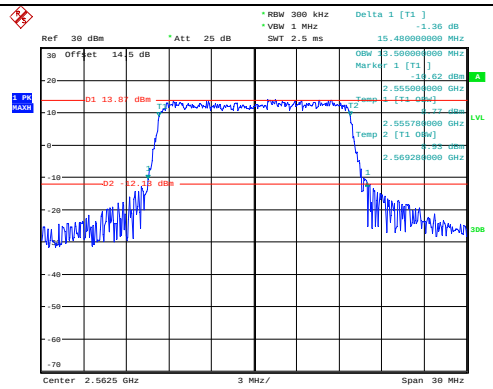
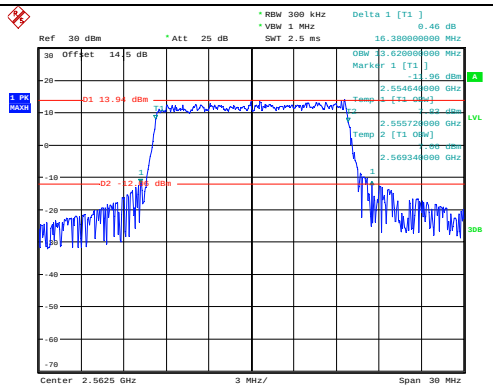
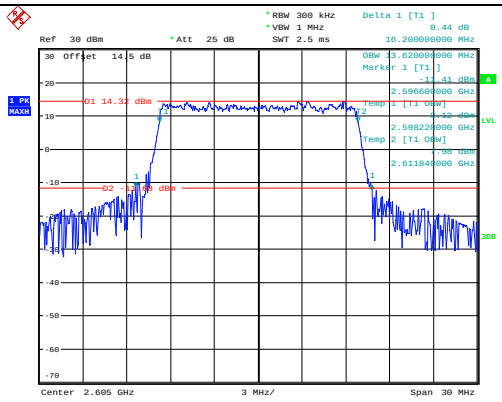
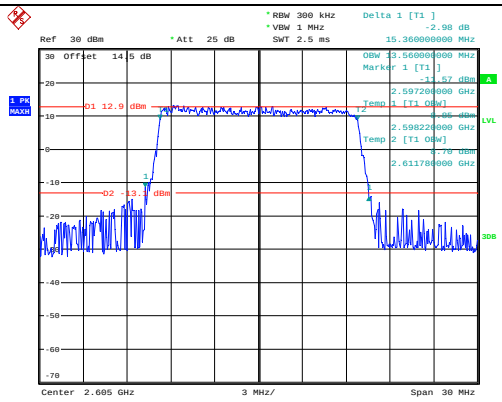
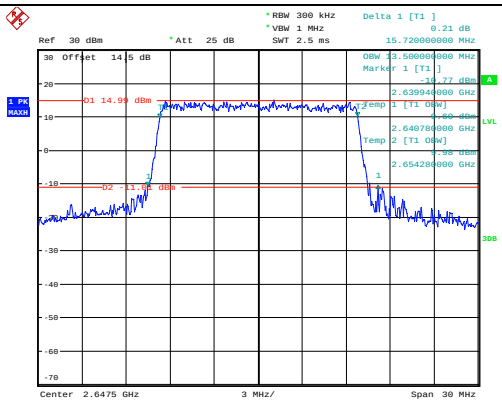
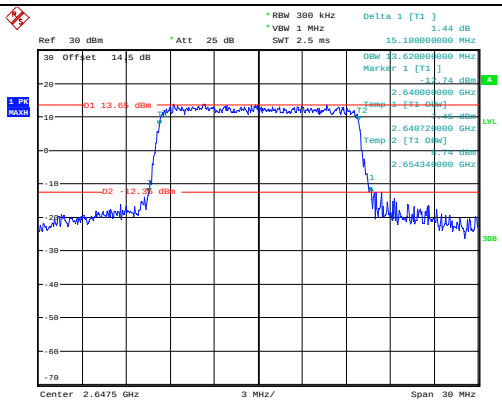
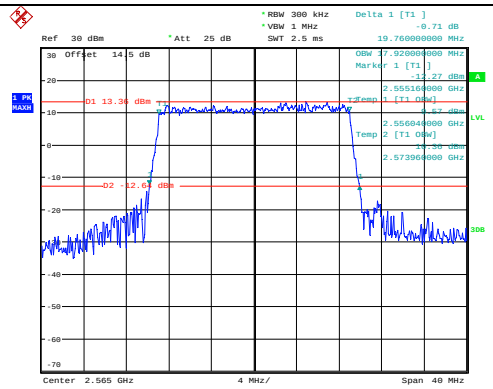
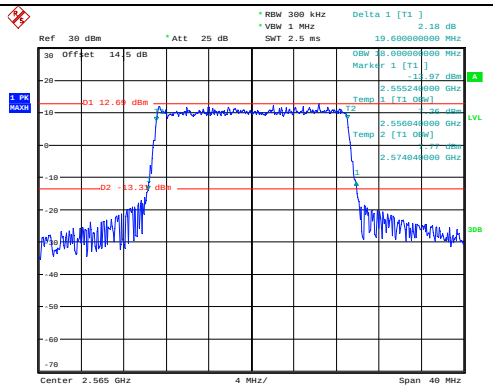
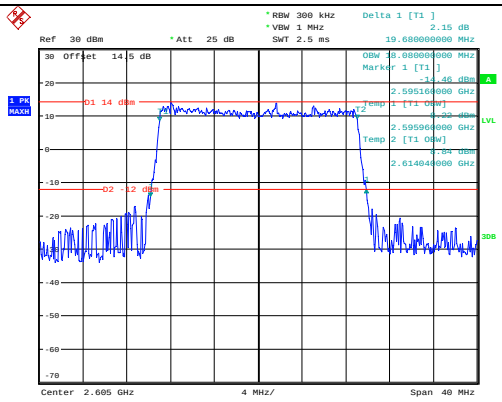
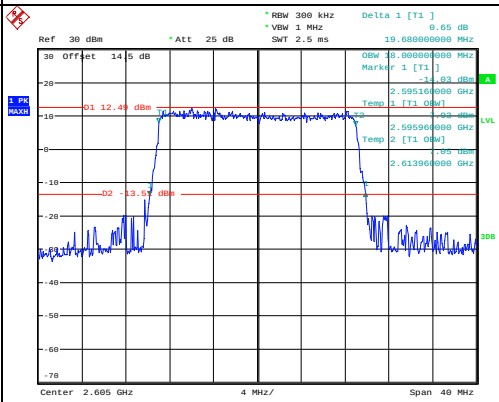
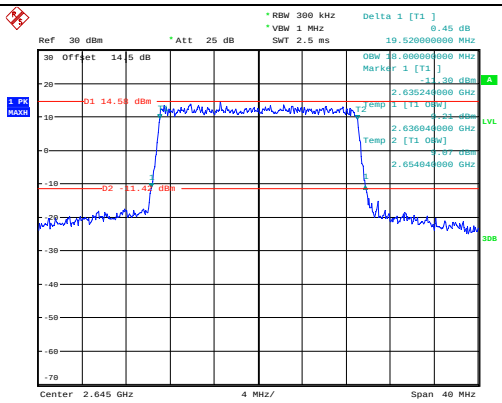
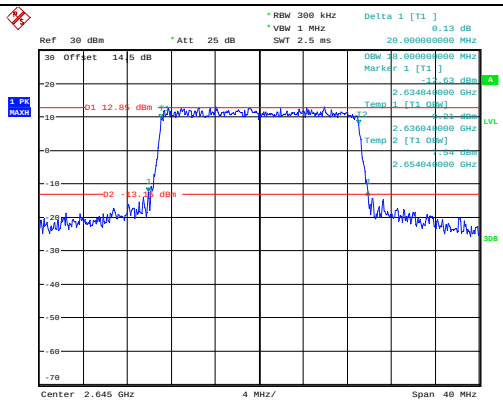
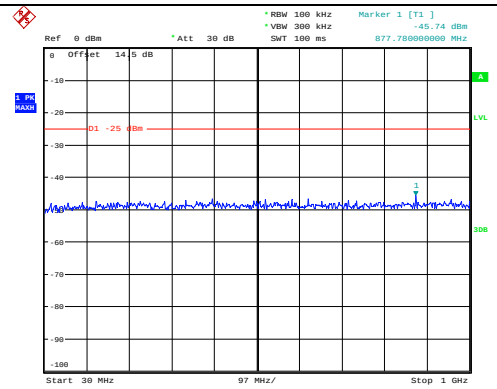
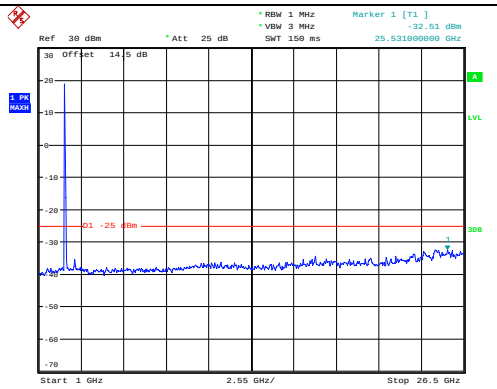
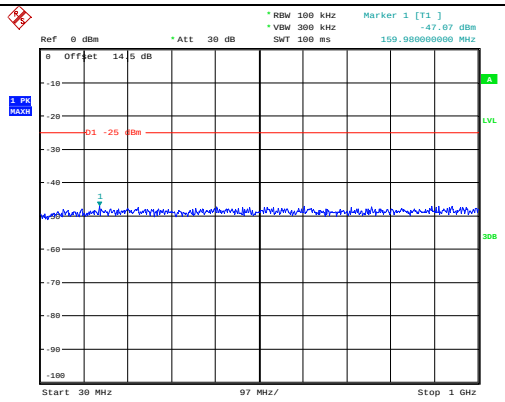
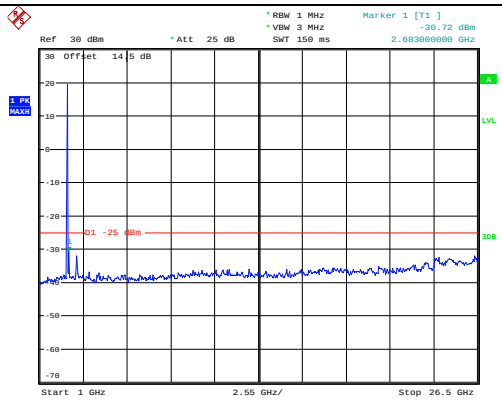
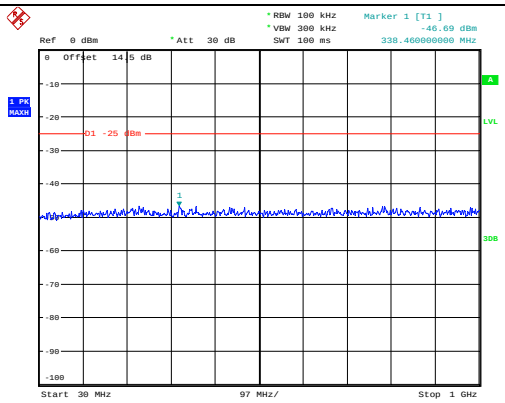
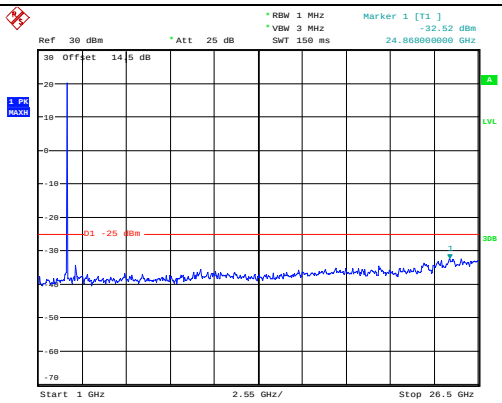
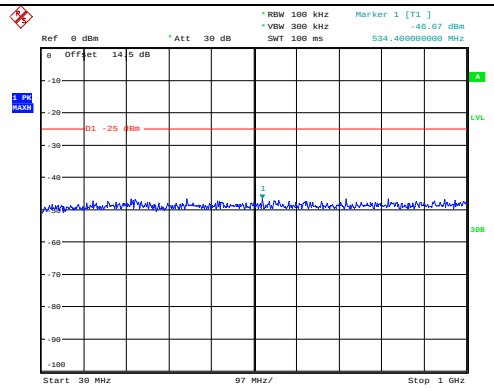
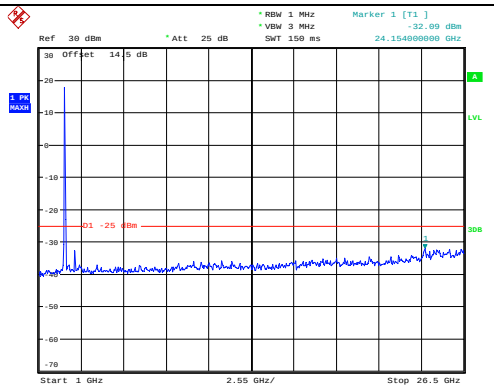
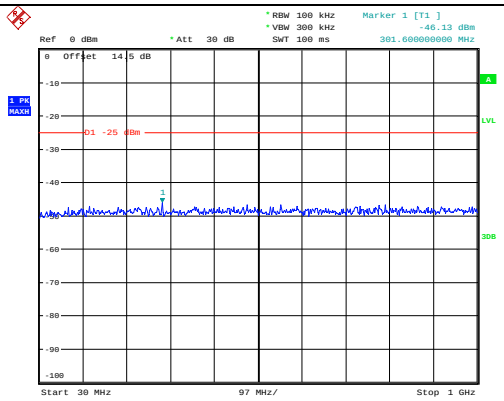
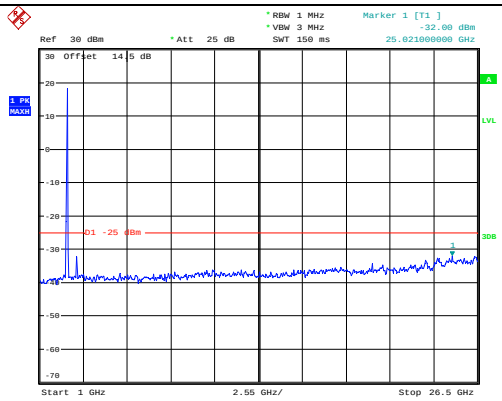
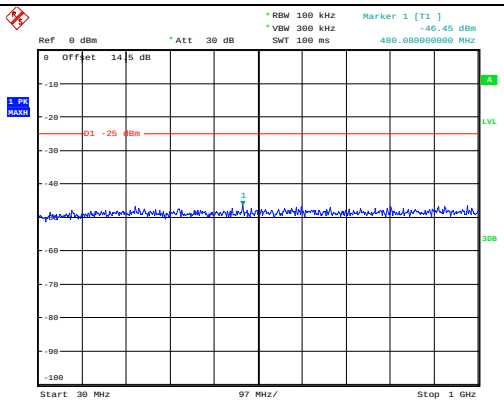
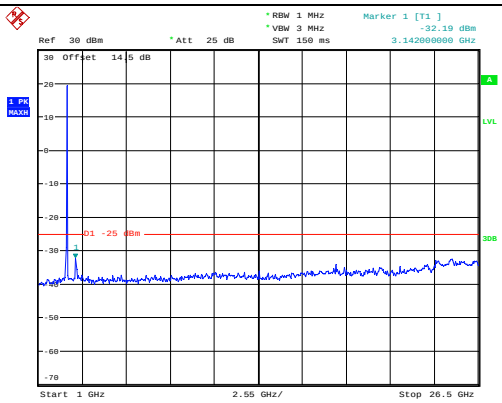
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:50:39	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:51:00
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:51:31	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:51:58
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:52:16	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:52:33

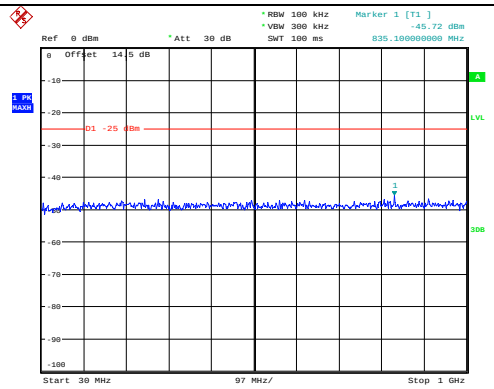
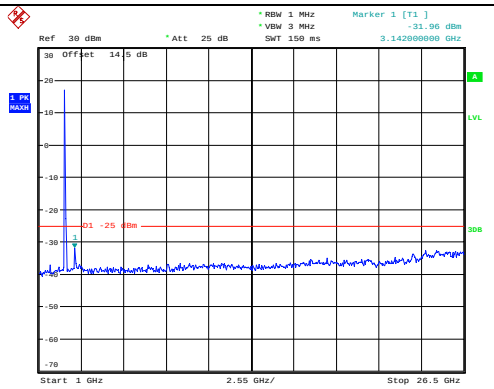
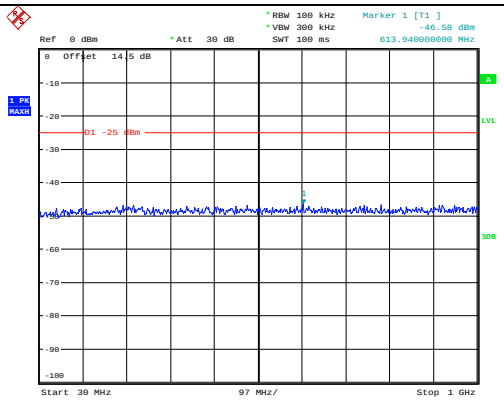
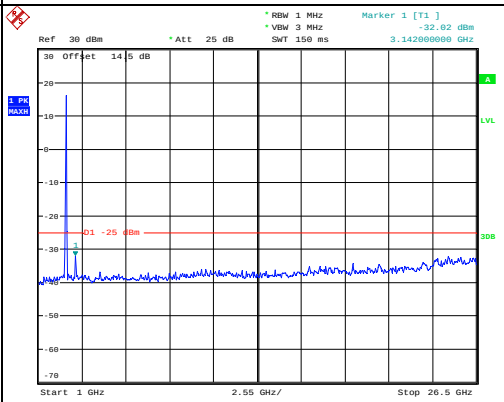
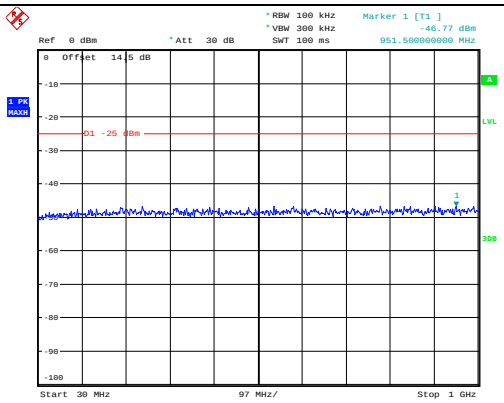
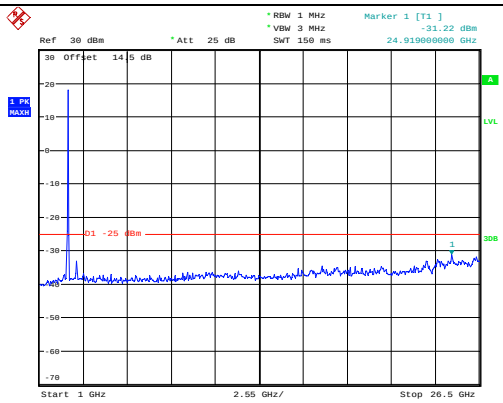
Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:53:23	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:53:56
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:54:34	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:54:55
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:55:16	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:55:37

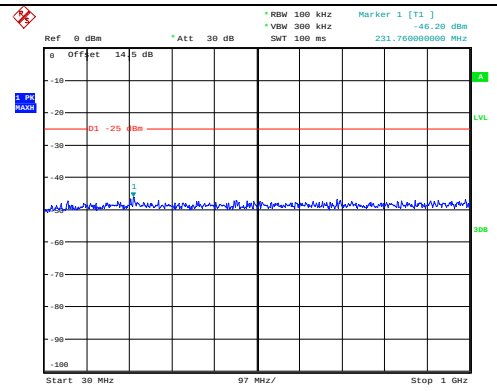
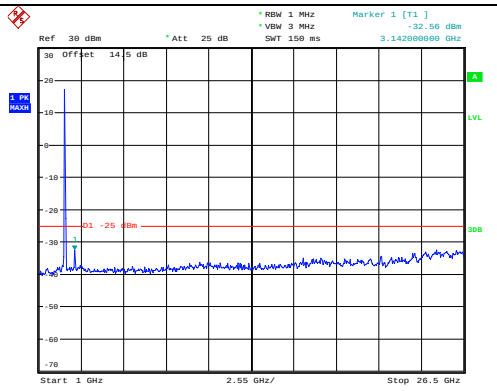
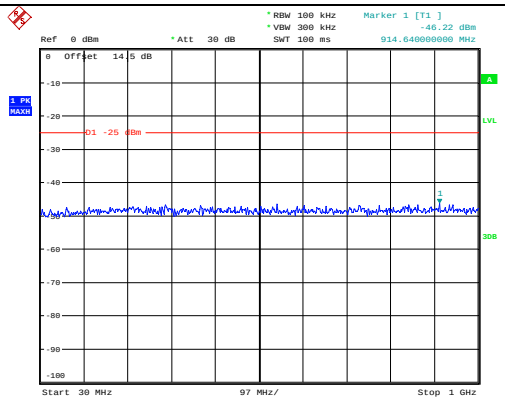
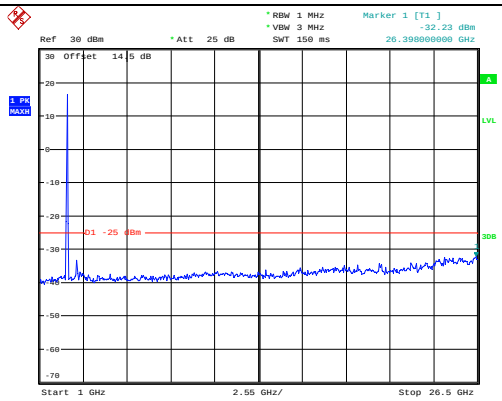
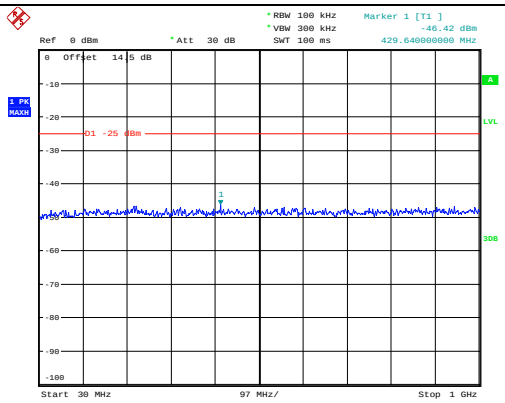
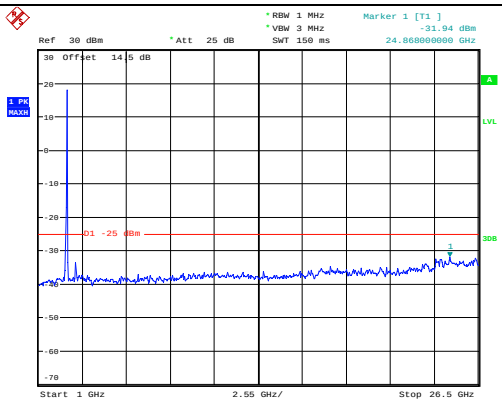
Occupied Bandwidth

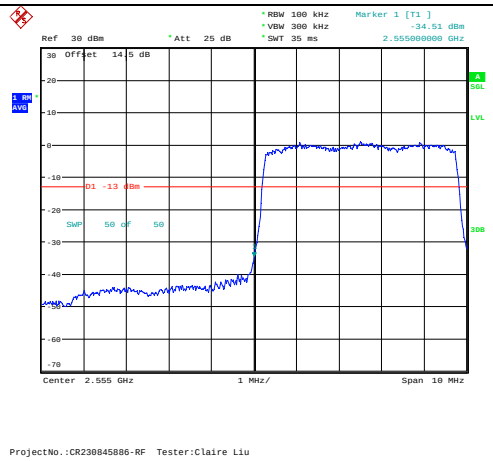
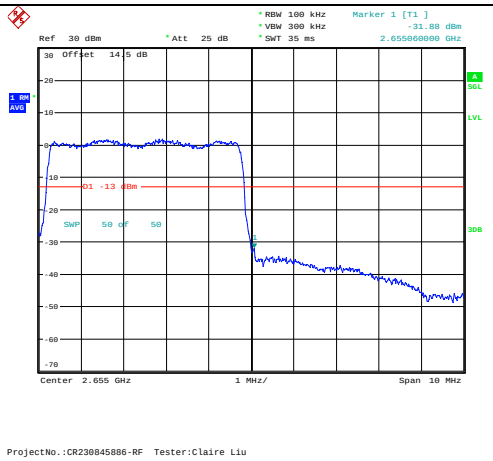
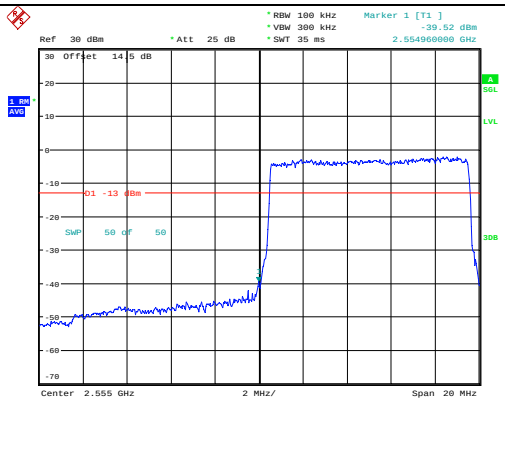
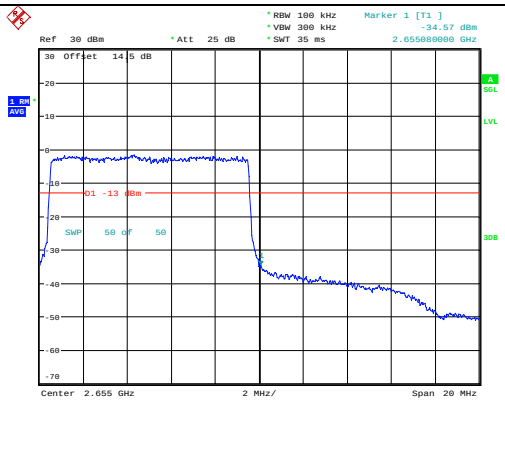
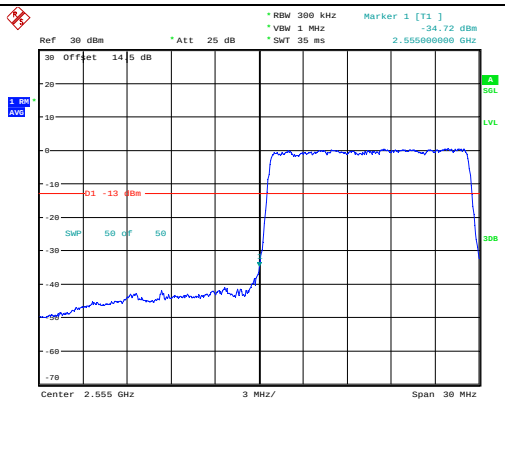
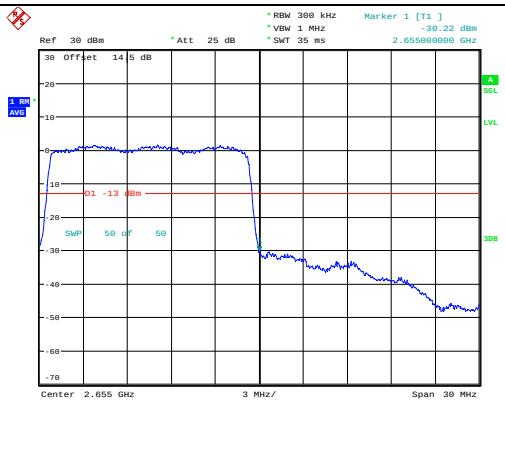
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:56:27	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:56:54
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:57:16	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:57:34
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:57:56	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:58:16

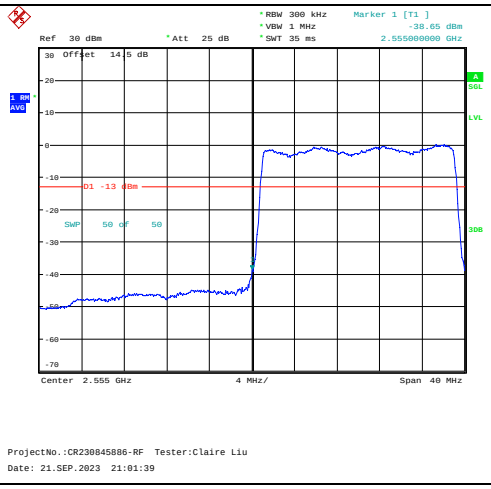
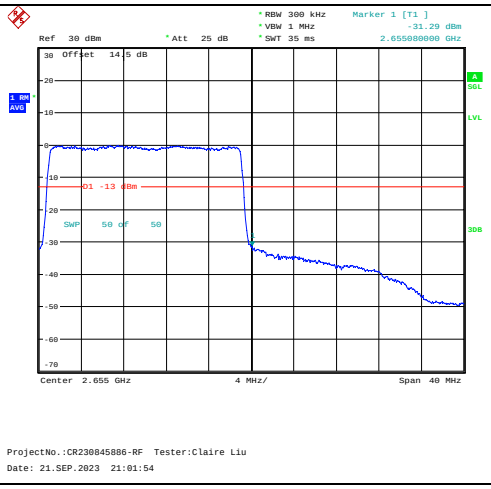
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:02:49	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:03:01
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:03:14	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:03:25
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:03:39	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:03:50

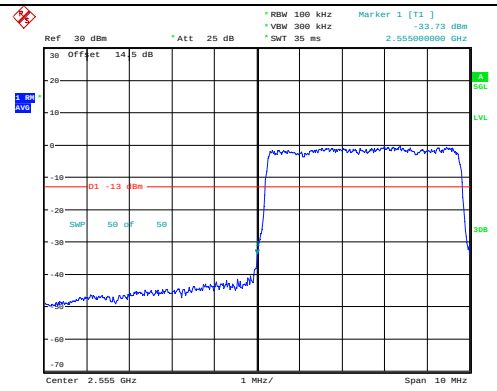
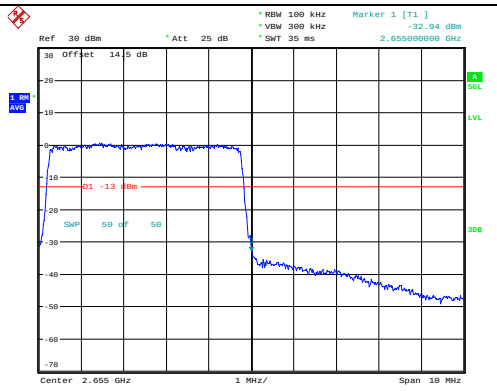
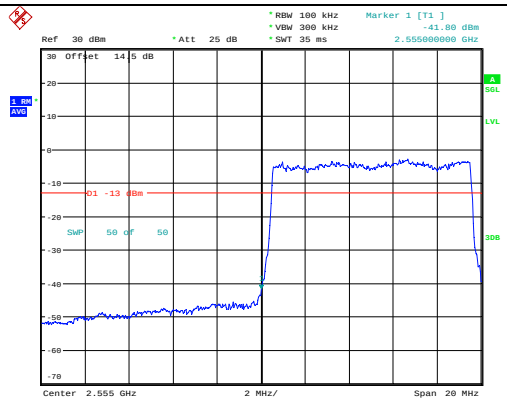
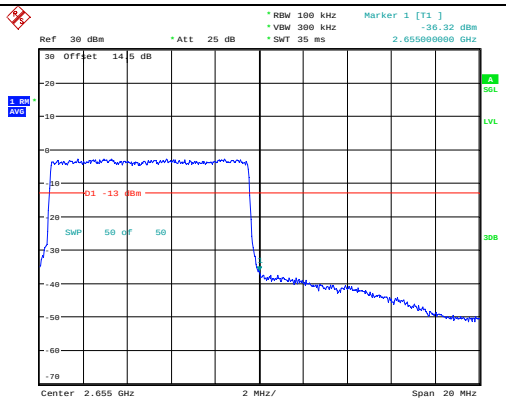
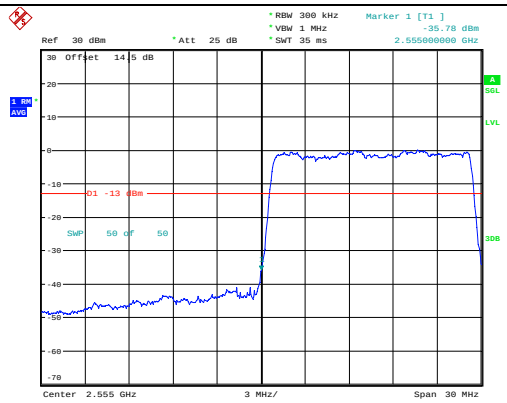
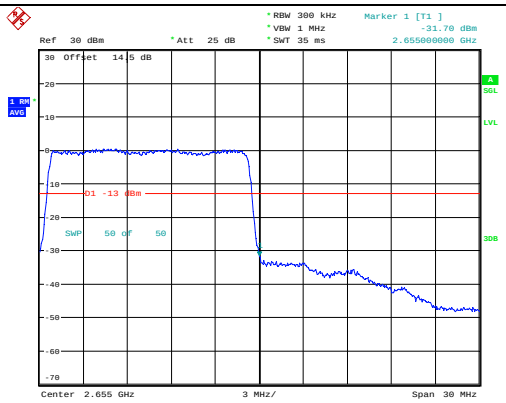
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:04:29	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:04:40
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:04:53	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:05:05
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:05:18	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:05:29

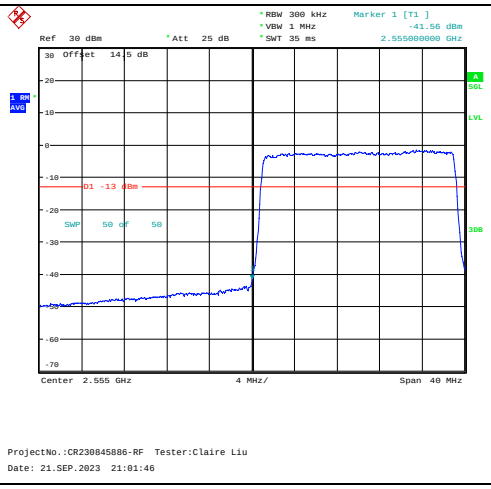
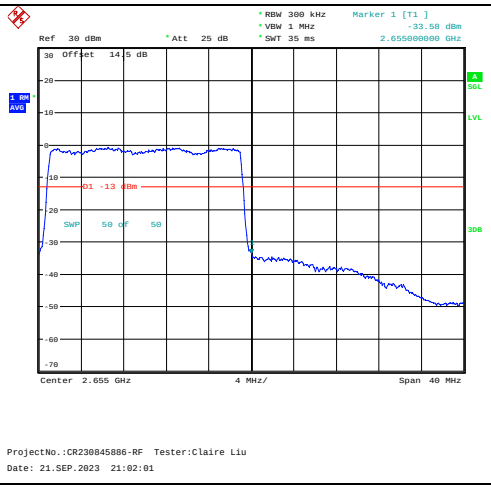
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:06:08	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:06:19
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:06:36	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:06:47
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:07:04	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:07:15

Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:07:53	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:08:05
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:08:22	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:08:33
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:08:50	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:09:01

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	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:58:57	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:59:11
16QAM 10MHz	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 20:59:55	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:00:12
16QAM 15MHz	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:00:51	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:01:06

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

4.13 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	29K1-1	Test Date:	2023/9/20~2023/9/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu, Arthur Su	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.7~26.1	Relative Humidity: (%)	59~61	ATM Pressure: (kPa)	100.5~100.6

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	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
Unknown	Coaxial tee connector	Unknown	2204004	Each time	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:

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	18.59	18.95	18.15	17.24	30
	RB1#3	18.62	18.93	18.16		
	RB1#5	18.63	18.93	18.14		
	RB3#0	18.57	18.82	18.05		
	RB3#3	18.58	18.78	18.04		
	RB6#0	17.68	17.75	17.21		
1.4MHz 16QAM	RB1#0	18.30	18.68	17.81	17.01	30
	RB1#3	18.28	18.72	17.85		
	RB1#5	18.30	18.70	17.84		
	RB3#0	17.43	17.96	17.01		
	RB3#3	17.49	18.02	17.04		
	RB6#0	16.72	17.00	16.13		
3MHz QPSK	RB1#0	18.92	18.82	18.36	17.22	30
	RB1#8	18.93	18.84	18.34		
	RB1#14	18.93	18.90	18.29		
	RB6#0	17.92	17.85	17.59		
	RB6#9	17.84	17.86	17.61		
	RB15#0	17.91	17.79	17.56		
3MHz 16QAM	RB1#0	18.58	17.58	17.27	16.88	30
	RB1#8	18.58	17.53	17.18		
	RB1#14	18.59	17.52	17.20		
	RB6#0	17.00	17.09	16.94		
	RB6#9	16.98	17.11	16.78		
	RB15#0	16.96	16.90	16.55		
5MHz QPSK	RB1#0	18.26	17.95	18.11	16.56	30
	RB1#13	18.25	17.95	18.04		
	RB1#24	18.27	17.96	17.96		
	RB15#0	17.36	17.20	17.30		
	RB15#10	17.34	17.25	17.23		
	RB25#0	17.30	17.17	17.39		
5MHz 16QAM	RB1#0	17.41	16.67	16.43	15.82	30
	RB1#13	17.37	16.72	16.45		
	RB1#24	17.53	16.78	16.37		
	RB15#0	16.26	16.12	16.42		
	RB15#10	16.25	16.15	16.16		
	RB25#0	16.35	16.01	16.44		
10MHz QPSK	RB1#0	18.12	18.84	17.57	17.17	30
	RB1#25	18.14	18.88	17.64		
	RB1#49	18.14	18.86	17.64		
	RB25#0	16.92	17.70	16.82		

	RB25#25	17.54	17.78	16.89		
	RB50#0	17.13	17.79	16.95		
10MHz 16QAM	RB1#0	17.13	17.44	16.99	15.73	30
	RB1#25	17.21	17.26	17.01		
	RB1#49	17.22	17.27	16.96		
	RB25#0	16.11	16.81	16.04		
	RB25#25	16.68	16.98	15.97		
	RB50#0	16.24	16.85	15.97		
15MHz QPSK	RB1#0	18.57	18.68	18.35	17.04	30
	RB1#38	18.54	18.73	18.17		
	RB1#74	18.61	18.75	18.10		
	RB36#0	17.78	17.83	17.48		
	RB36#39	17.84	17.76	17.43		
	RB75#0	18.37	17.80	17.32		
15MHz 16QAM	RB1#0	17.89	18.12	17.64	16.61	30
	RB1#38	18.32	18.08	17.37		
	RB1#74	17.83	18.06	17.42		
	RB36#0	16.94	16.89	16.60		
	RB36#39	16.86	16.97	16.54		
	RB75#0	17.43	16.82	16.46		
20MHz QPSK	RB1#0	18.66	18.97	18.39	17.26	30
	RB1#50	18.73	18.90	18.33		
	RB1#99	18.70	18.90	18.11		
	RB50#0	17.77	17.89	17.42		
	RB50#50	17.36	17.77	17.33		
	RB100#0	17.53	17.78	17.39		
20MHz 16QAM	RB1#0	17.27	17.27	18.35	16.64	30
	RB1#50	17.39	17.39	18.21		
	RB1#99	17.35	17.49	18.01		
	RB50#0	16.58	16.90	16.42		
	RB50#50	16.52	16.93	16.27		
	RB100#0	16.59	16.78	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	6.25	5.64	6.09	13
	RB100#0	5.87	5.80	5.90	13
20MHz 16QAM	RB1#0	6.92	6.44	6.58	13
	RB100#0	6.70	6.70	7.21	13
				Result:	**Pass**

Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.104	1.092	1.104	1.248	1.260	1.260
1.4MHz 16QAM	1.092	1.110	1.098	1.254	1.260	1.248
3MHz QPSK	2.700	2.688	2.688	3.012	3.000	3.012
3MHz 16QAM	2.688	2.688	2.700	3.012	3.012	3.012
5MHz QPSK	4.520	4.520	4.520	4.960	5.000	5.020
5MHz 16QAM	4.520	4.540	4.520	4.980	5.000	4.940
10MHz QPSK	8.960	8.960	8.960	9.720	9.760	9.680
10MHz 16QAM	8.960	9.000	8.960	9.720	9.760	9.720
15MHz QPSK	13.500	13.620	13.500	15.000	15.180	14.940
15MHz 16QAM	13.500	13.560	13.500	14.940	15.060	15.060
20MHz QPSK	17.920	18.000	18.000	19.520	19.600	19.600
20MHz 16QAM	17.920	18.000	17.920	19.680	19.600	19.680
Note: The test plots please refer to the Plots of Occupied Bandwidth						

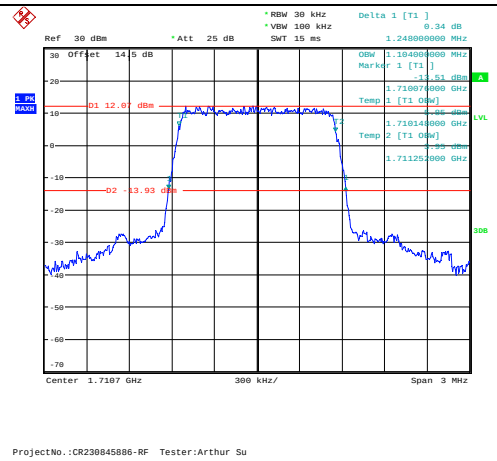
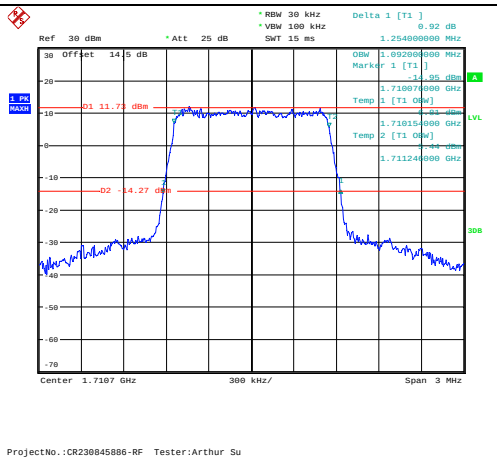
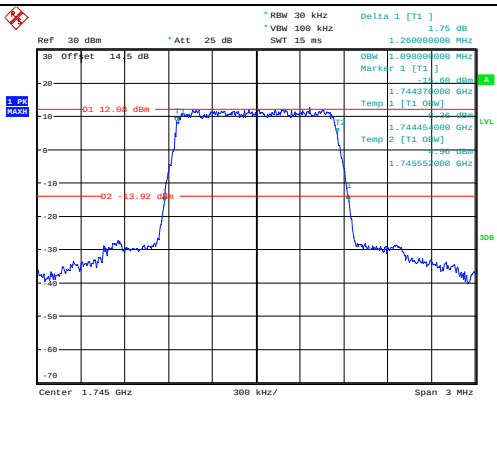
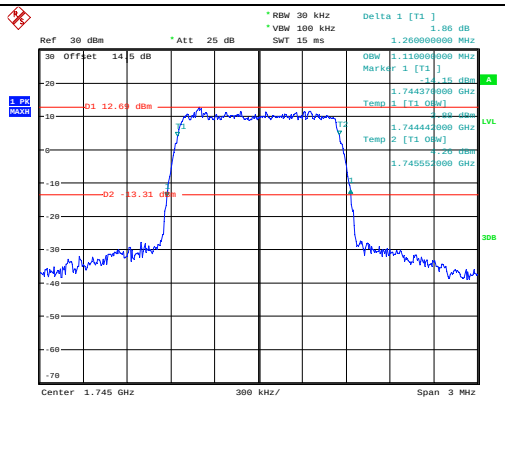
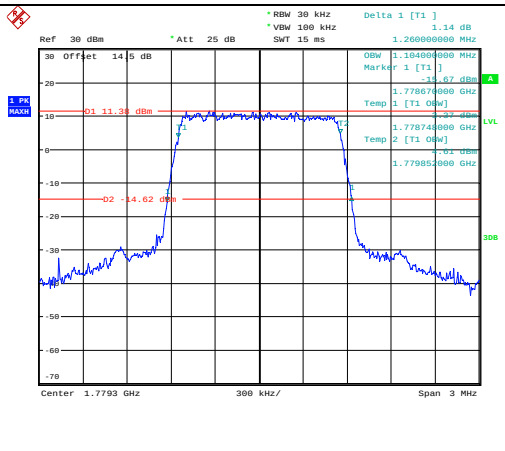
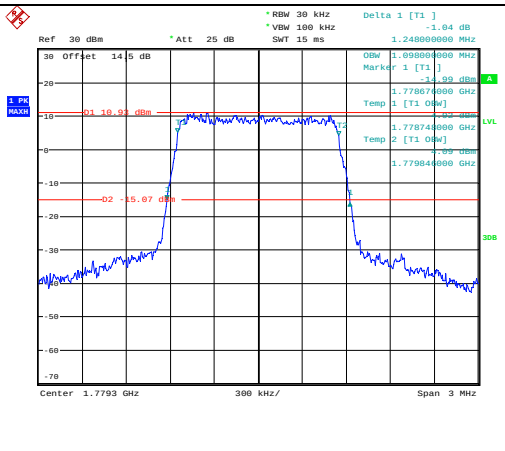
Spurious Emissions at Antenna Terminal	
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

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

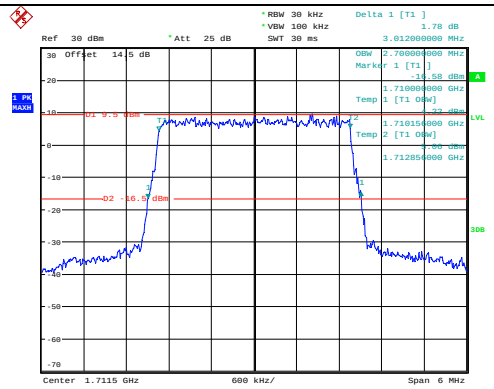
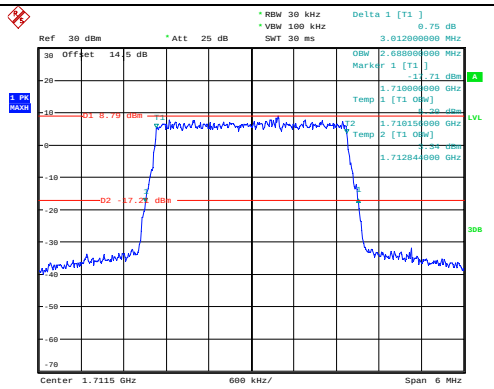
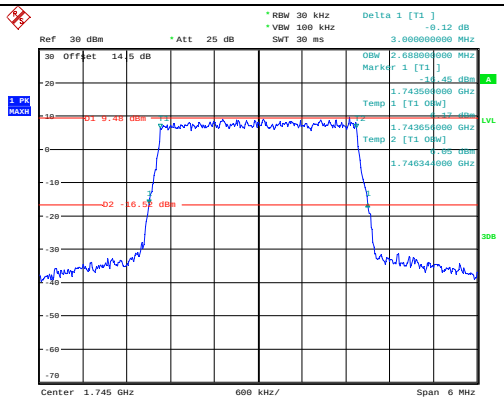
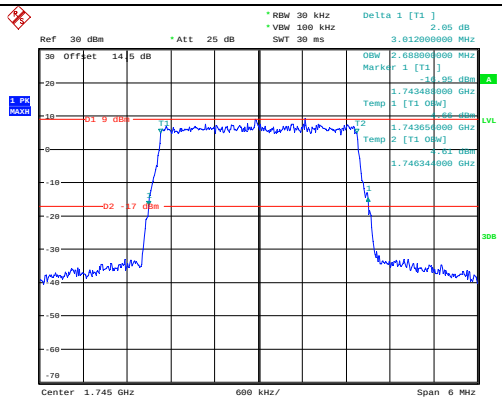
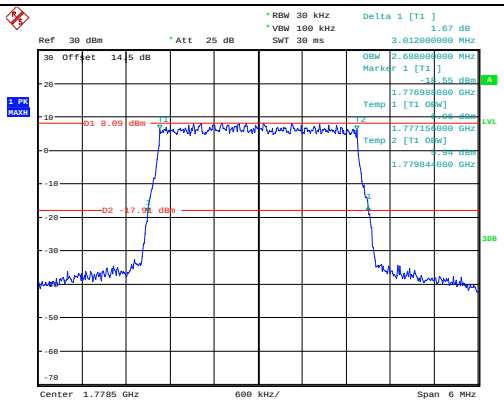
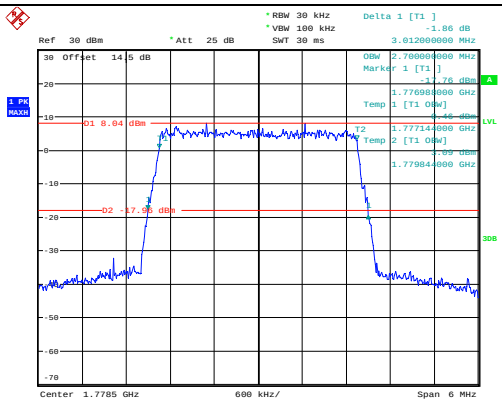
Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.7	1711.017	1710.00	1778.968	1780
	-20	3.7	1711.032	1710.00	1778.969	1780
	-10	3.7	1711.021	1710.00	1778.965	1780
	0	3.7	1711.038	1710.00	1778.968	1780
	10	3.7	1711.020	1710.00	1778.984	1780
	20	3.7	1711.040	1710.00	1778.960	1780
	30	3.7	1711.033	1710.00	1778.961	1780
	40	3.7	1711.018	1710.00	1778.961	1780
	50	3.7	1711.020	1710.00	1778.985	1780
Frequency Stability vs. Voltage	20	3.45	1711.028	1710.00	1778.977	1780
	20	4.3	1711.011	1710.00	1778.964	1780
					Result:	**Pass**

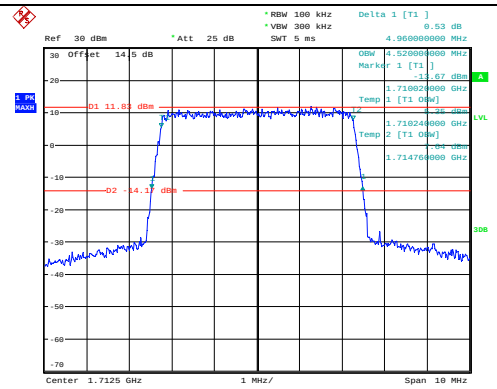
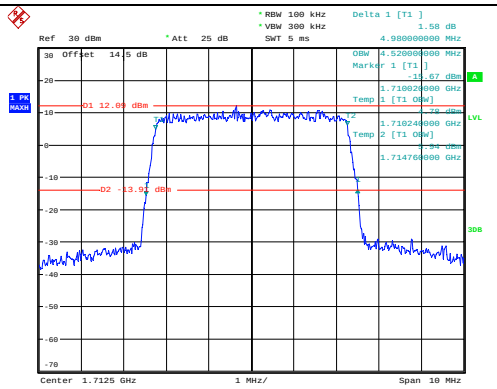
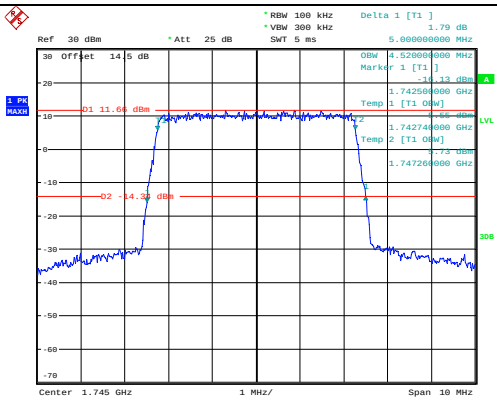
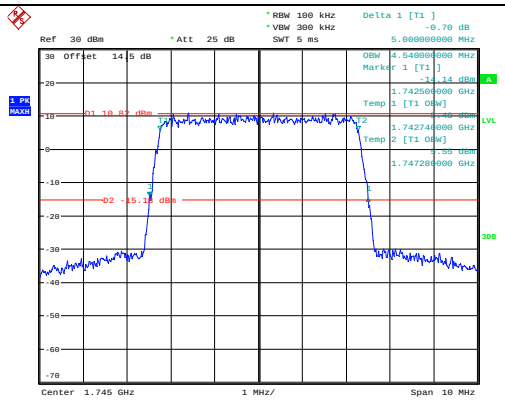
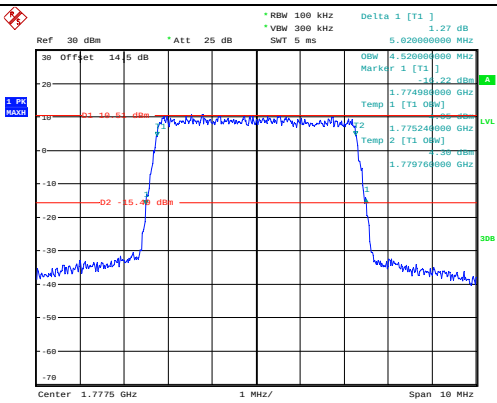
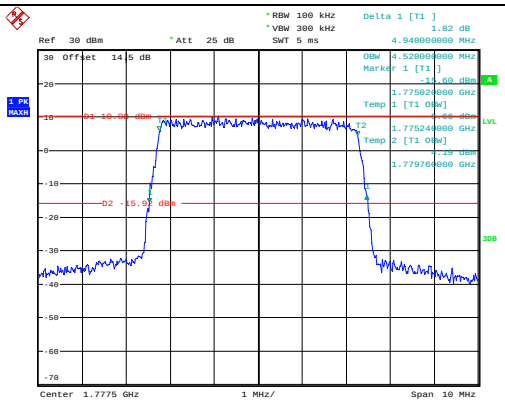
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.7	1711.014	1710.00	1778.976	1780
	-20	3.7	1711.029	1710.00	1778.979	1780
	-10	3.7	1711.029	1710.00	1778.976	1780
	0	3.7	1711.025	1710.00	1778.963	1780
	10	3.7	1711.025	1710.00	1778.986	1780
	20	3.7	1711.040	1710.00	1778.960	1780
	30	3.7	1711.025	1710.00	1778.988	1780
	40	3.7	1711.012	1710.00	1778.976	1780
	50	3.7	1711.023	1710.00	1778.964	1780
Frequency Stability vs. Voltage	20	3.45	1711.019	1710.00	1778.965	1780
	20	4.3	1711.032	1710.00	1778.964	1780
					Result:	**Pass**

Test Plots(Note: The 14.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer)**:**

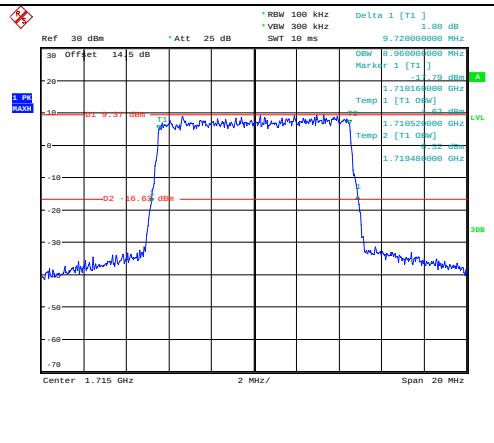
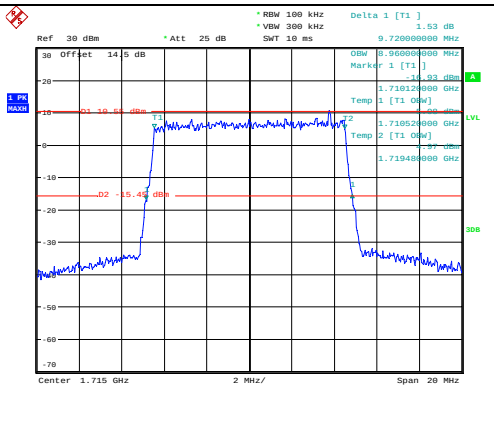
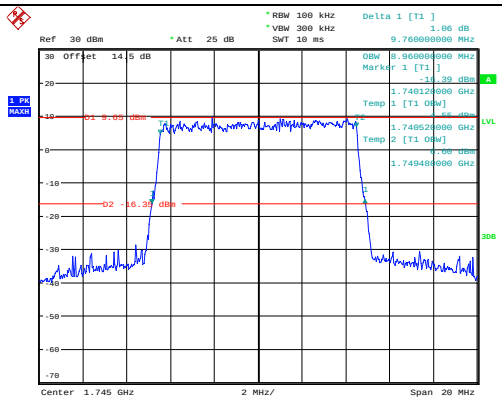
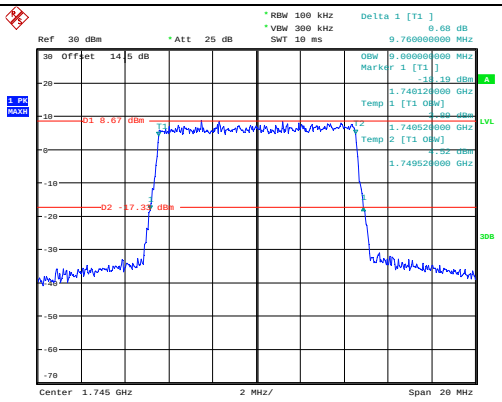
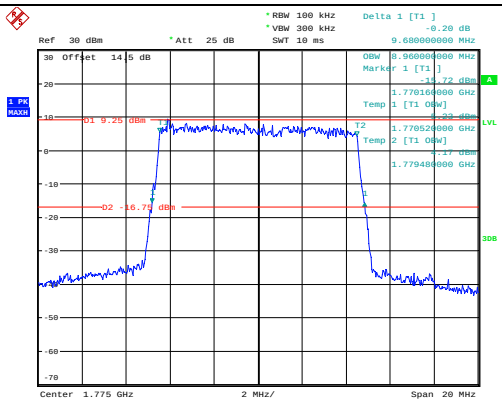
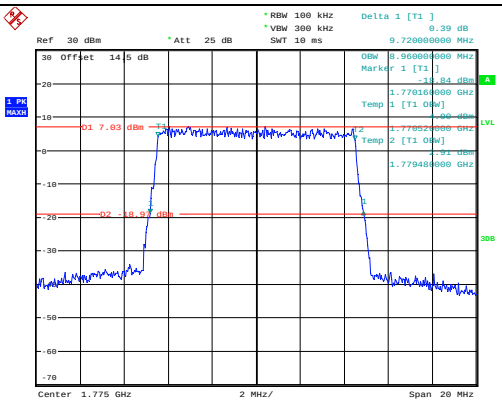
Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

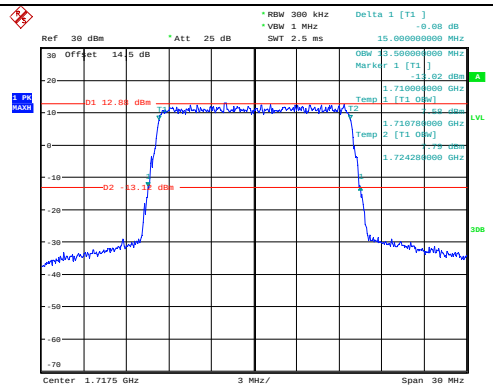
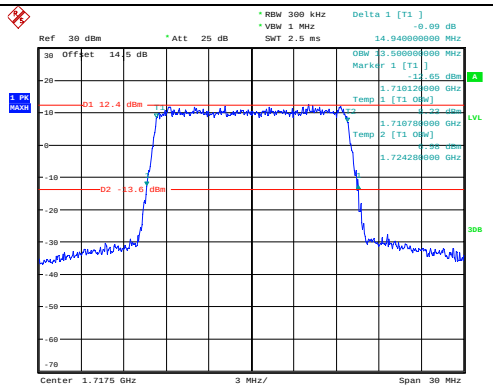
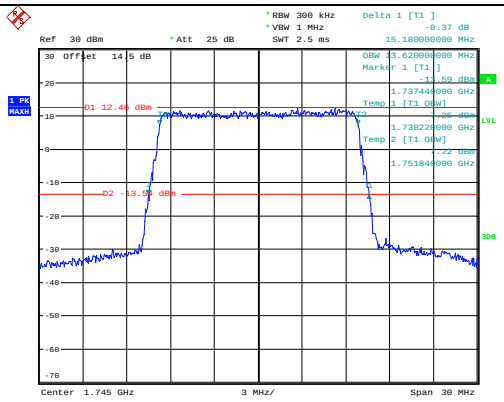
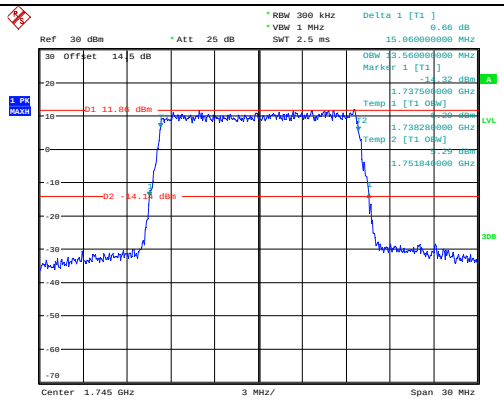
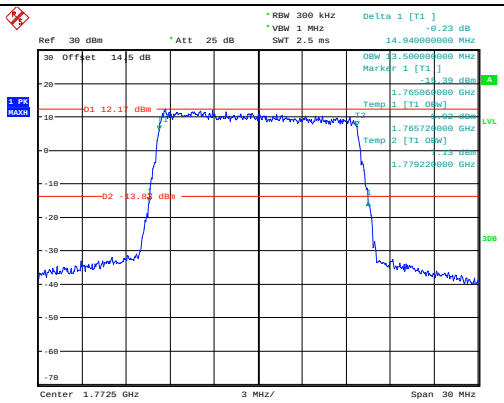
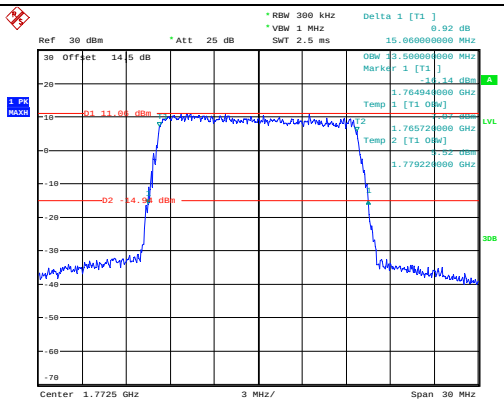
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:11:32	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:11:53
Middle	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:12:17	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:12:37
Highest	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:13:27	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:13:47

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

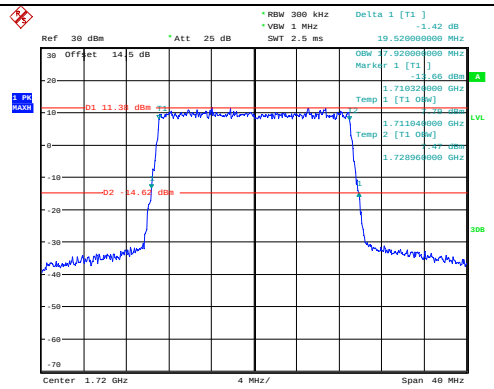
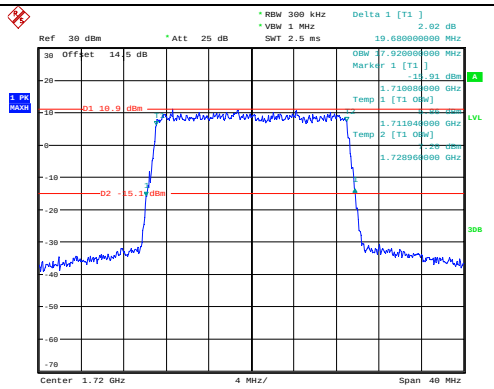
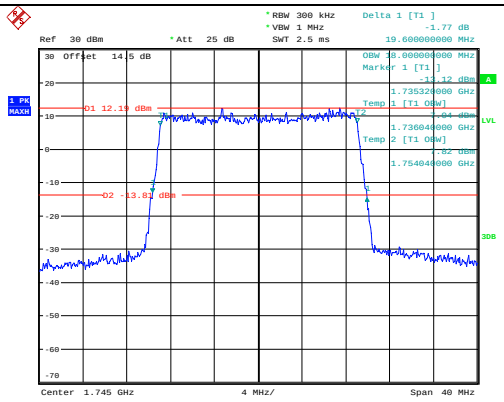
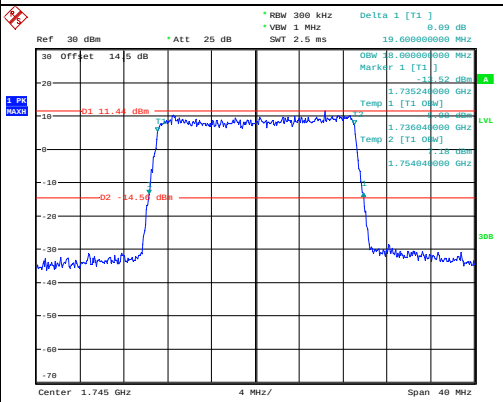
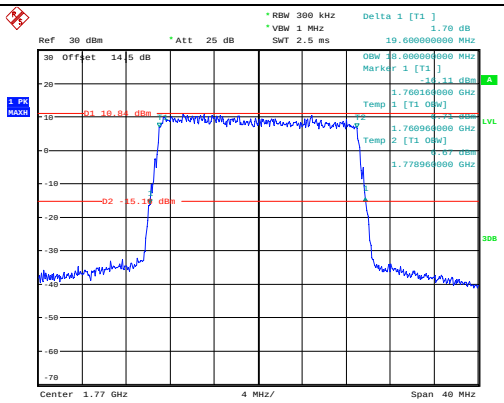
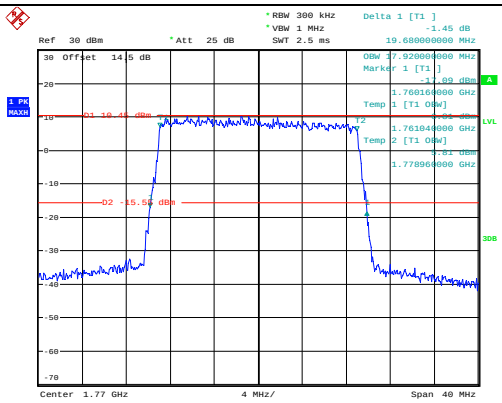
Occupied Bandwidth

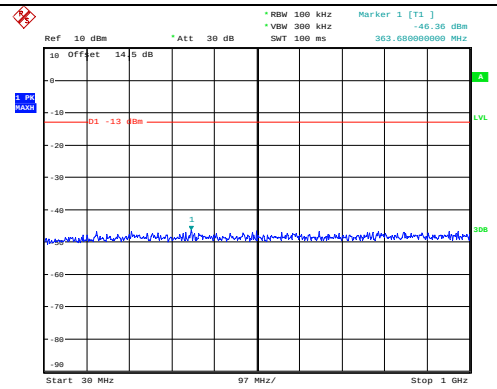
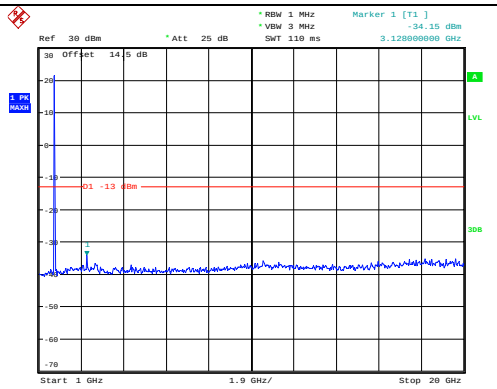
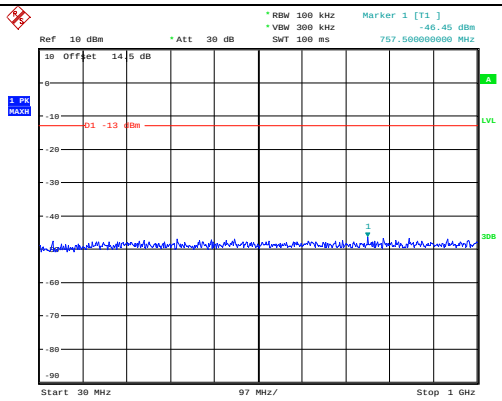
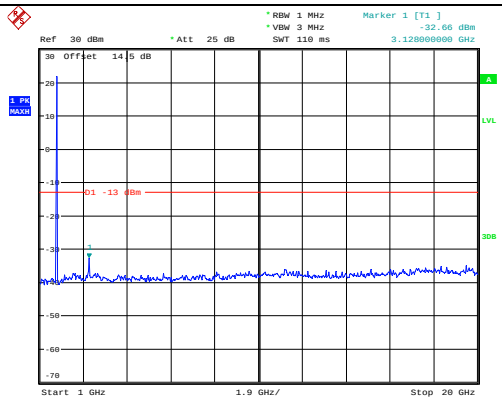
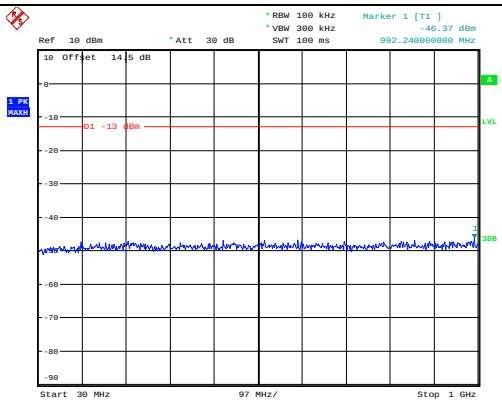
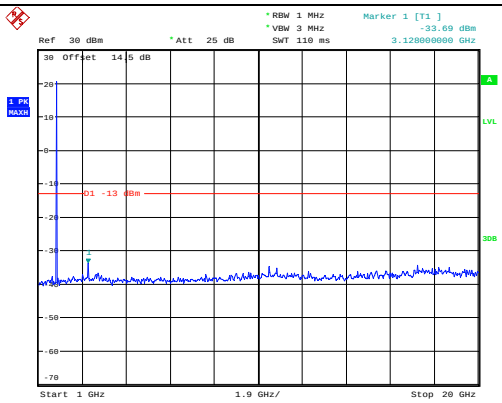
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:23:19	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:23:43
Middle	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:24:04	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:24:24
Highest	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:50:50	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:51:10

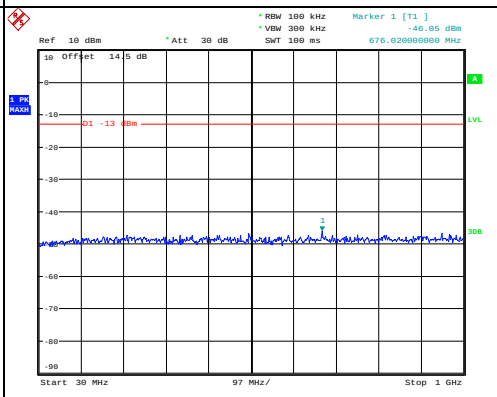
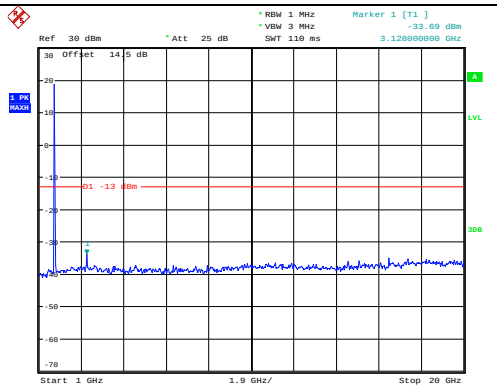
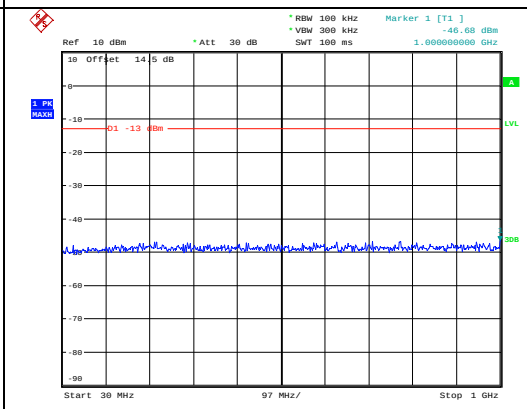
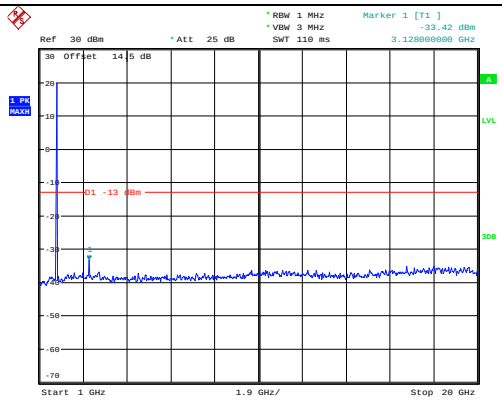
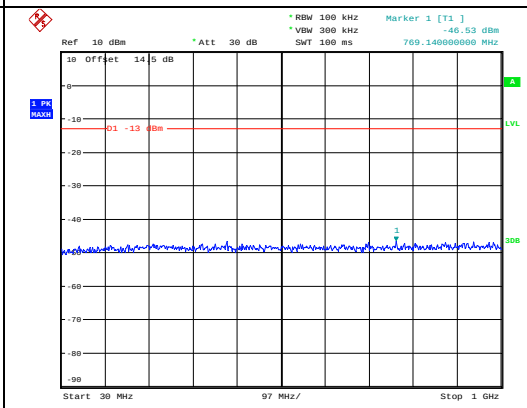
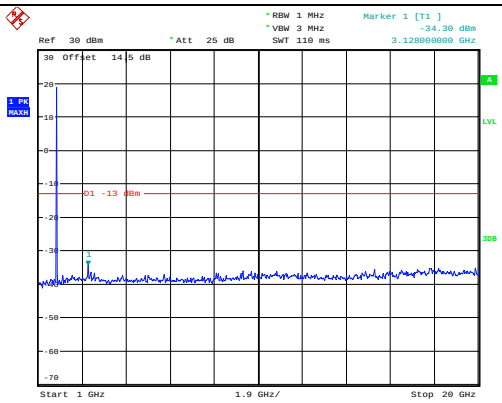
Occupied Bandwidth

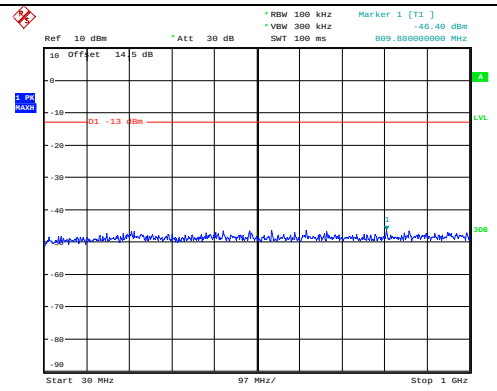
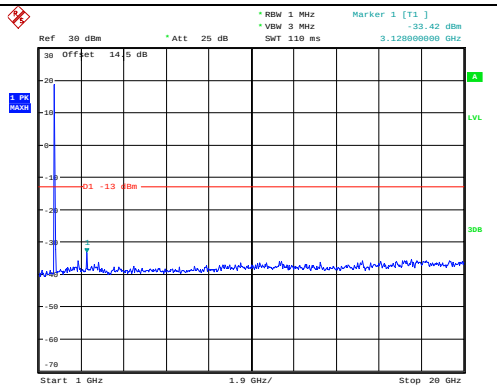
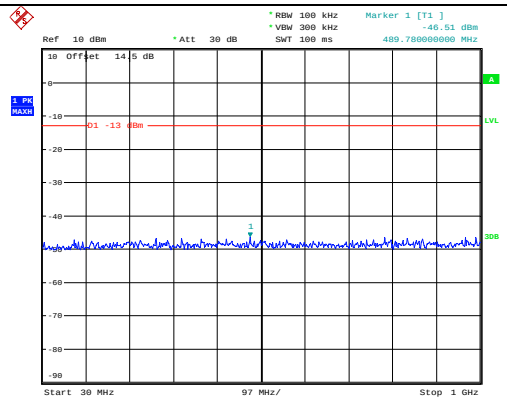
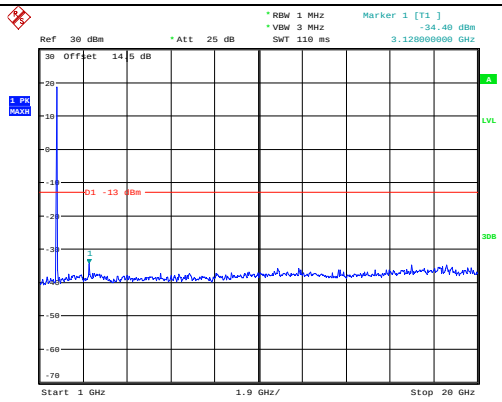
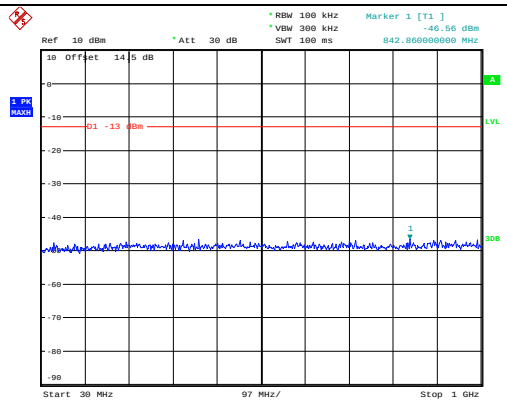
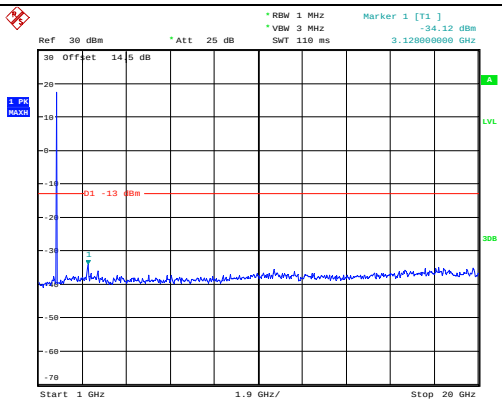
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:52:14	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:52:36
Middle	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:53:02	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:53:23
Highest	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:53:50	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:54:12

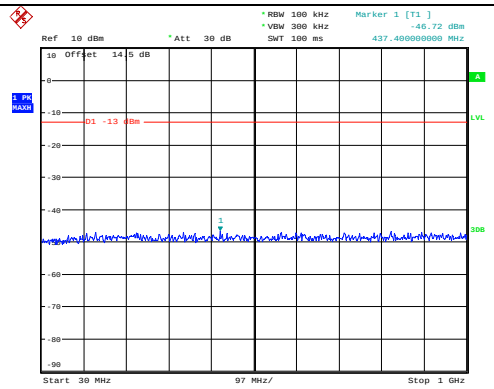
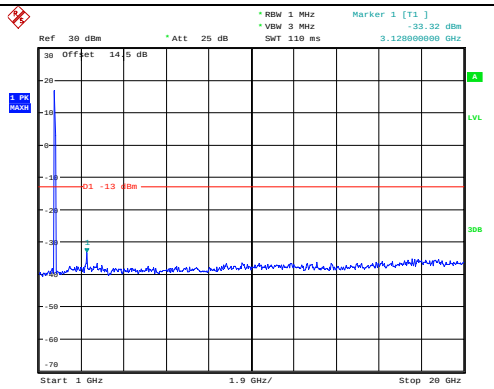
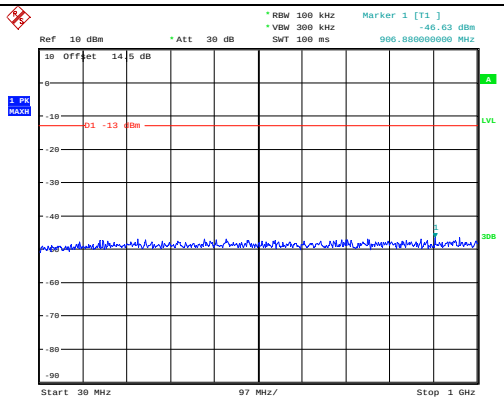
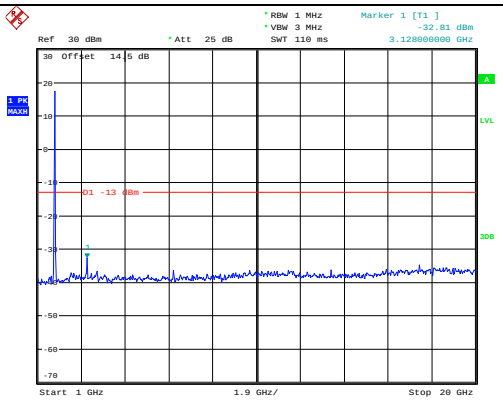
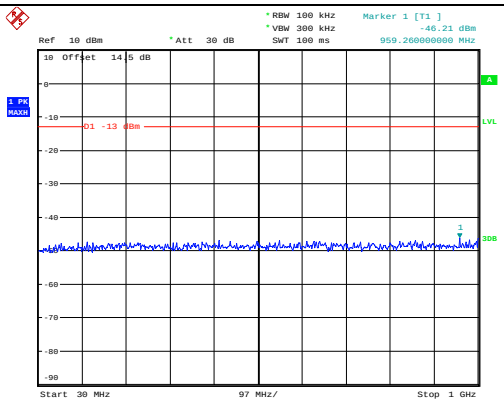
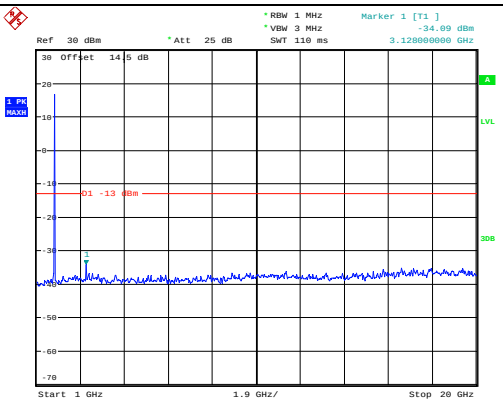
Occupied Bandwidth

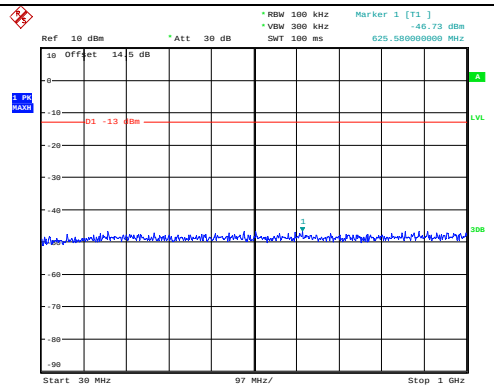
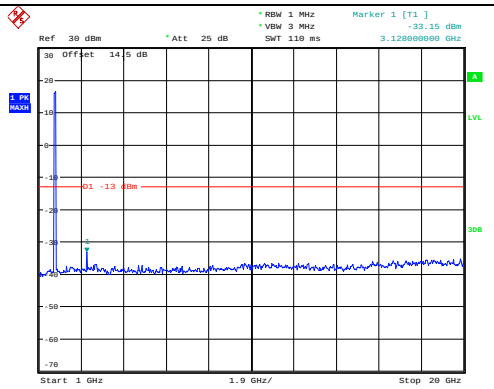
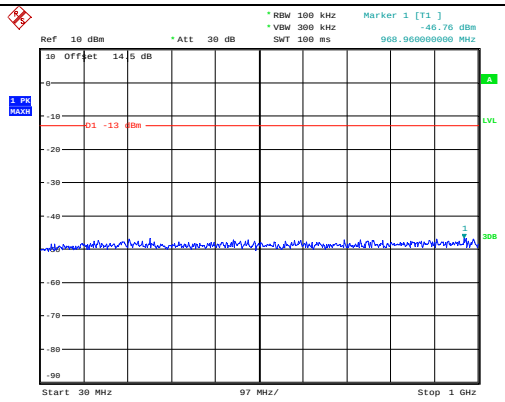
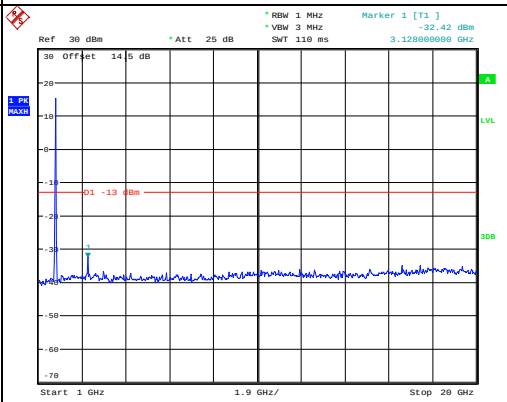
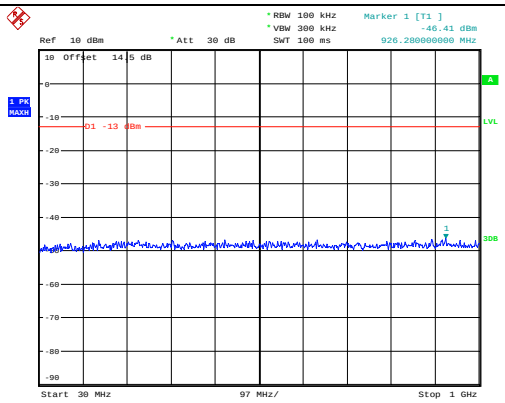
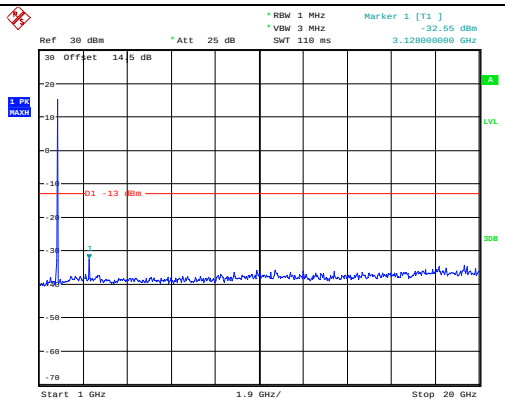
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:54:40	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 21:55:01
Middle	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 22:00:38	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 22:01:54
Highest	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 22:02:14	 ProjectNo.:CR230845886-RF Tester:Arthur Su Date: 20.SEP.2023 22:02:36

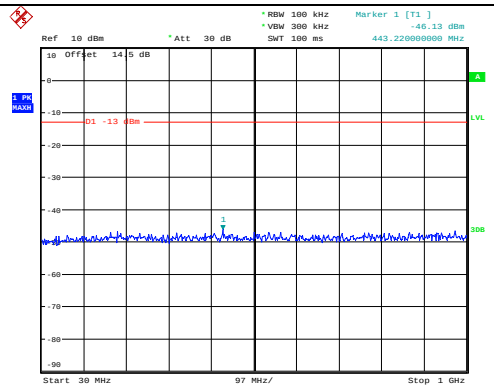
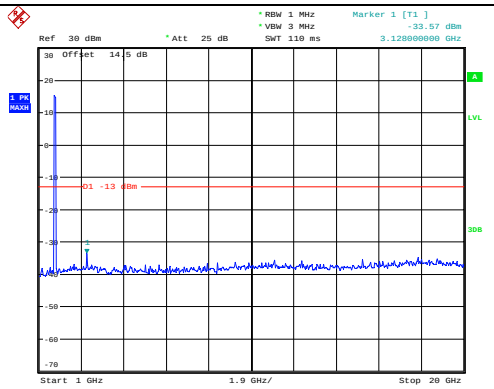
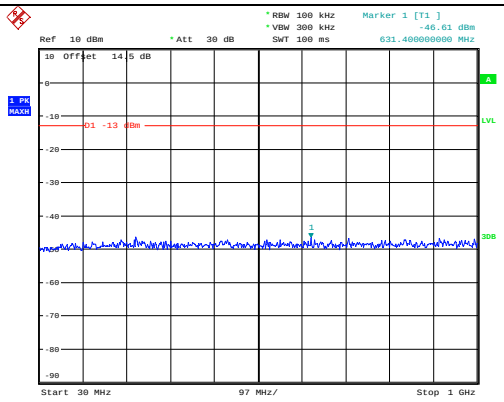
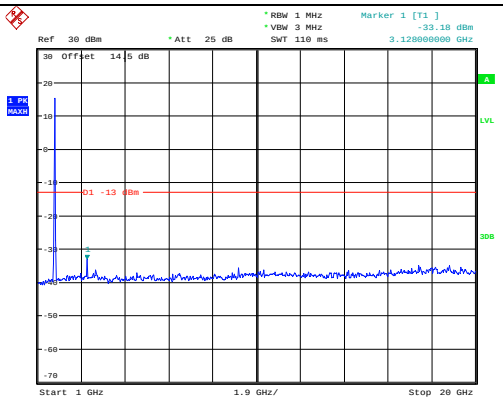
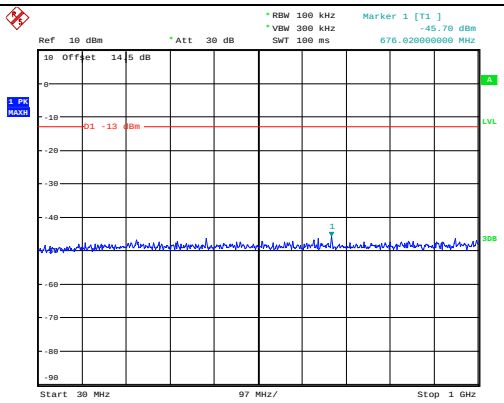
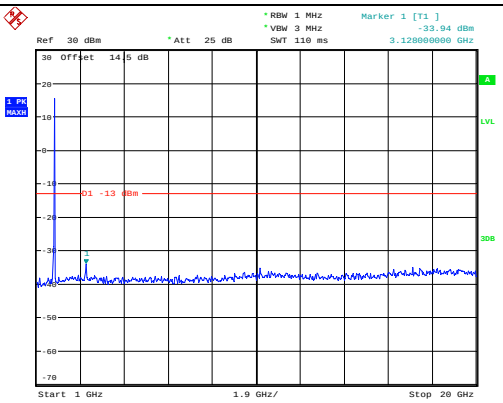
Spurious Emissions at Antenna Terminal		
Channel	**1.4MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 18:46:21	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 18:46:32
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:02:33	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:02:45
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:15:27	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:15:38

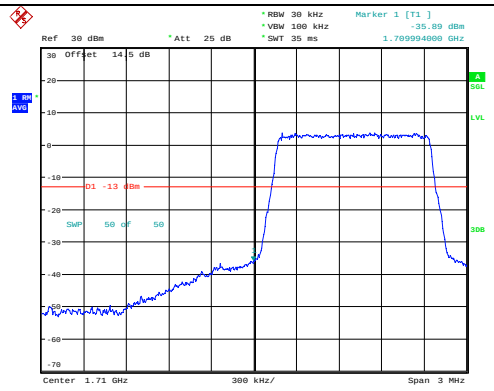
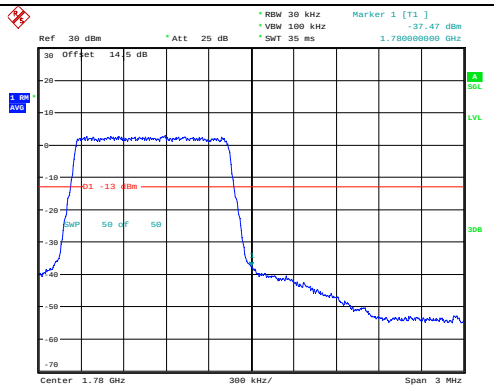
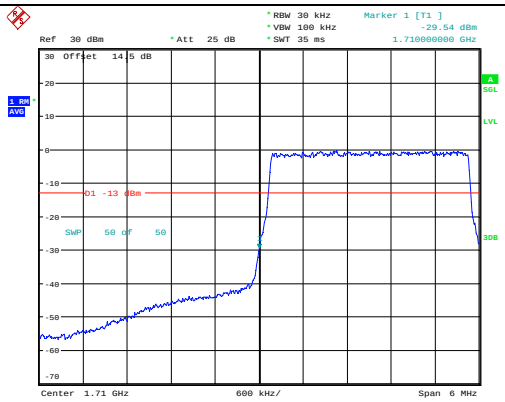
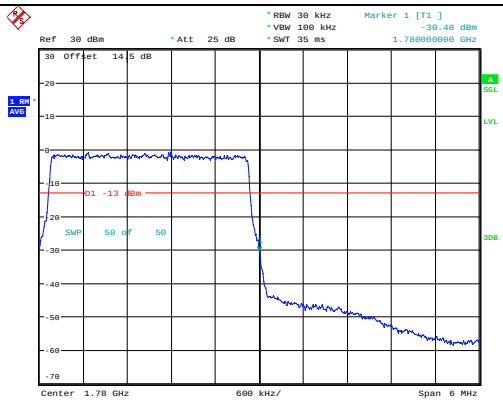
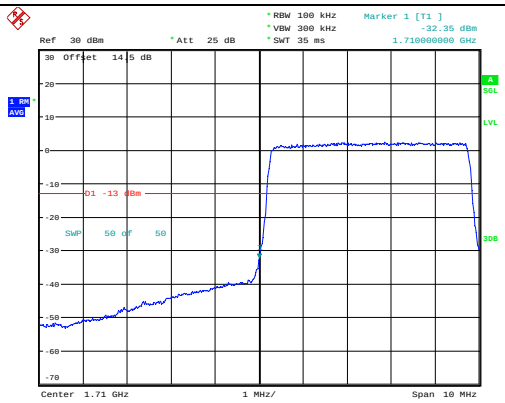
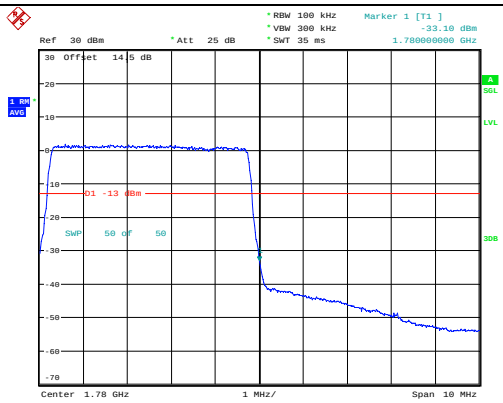
Spurious Emissions at Antenna Terminal		
Channel	**3MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:15:56	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:16:07
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:16:21	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:16:32
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:17:41	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:17:52

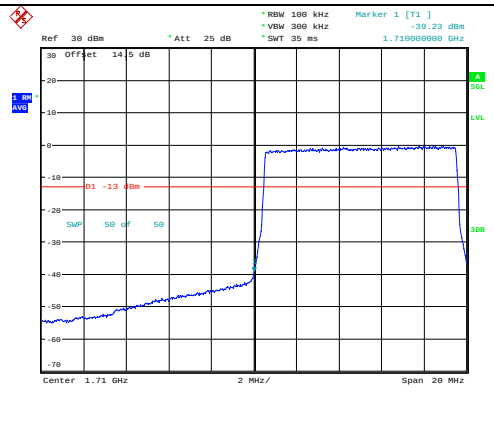
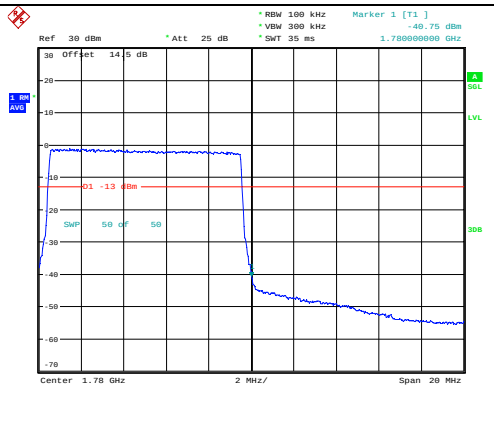
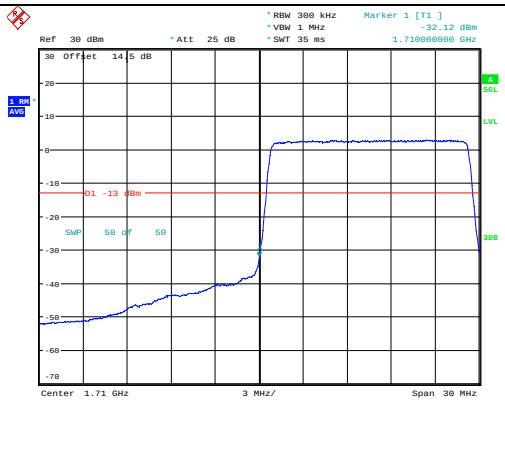
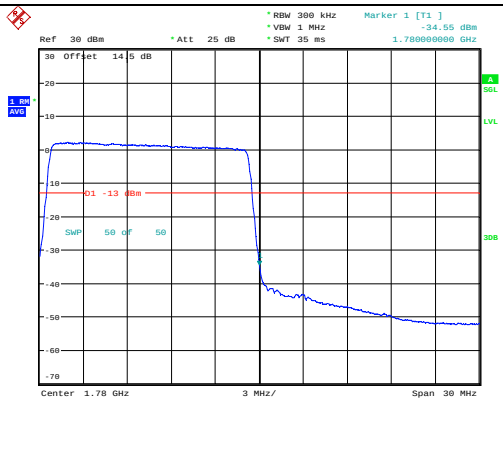
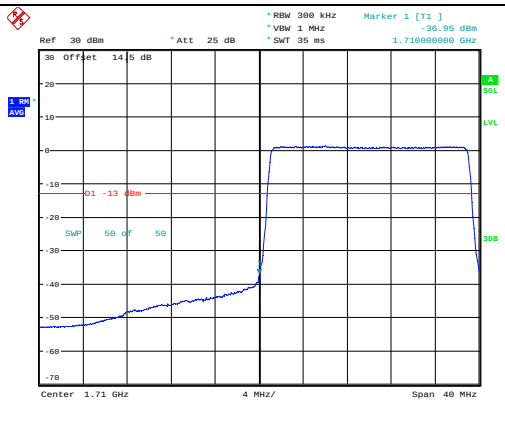
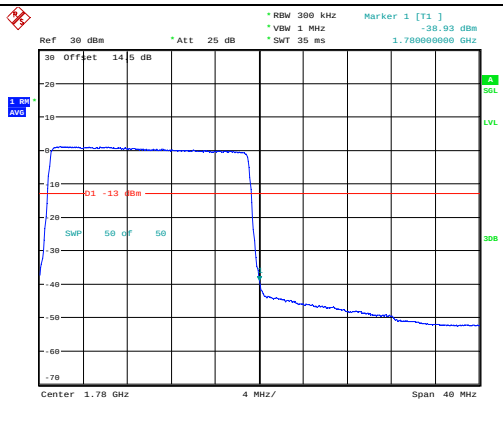
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:18:10	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:18:21
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:18:38	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:18:49
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:19:03	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:19:14

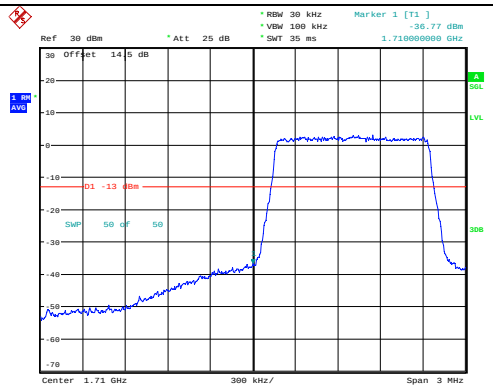
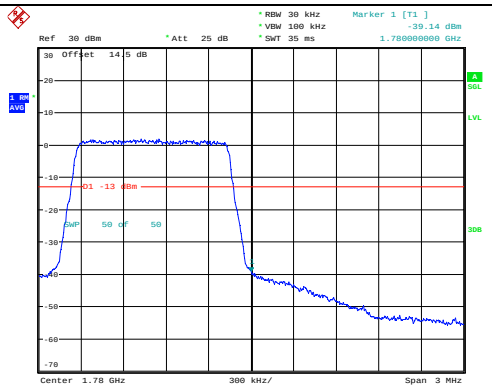
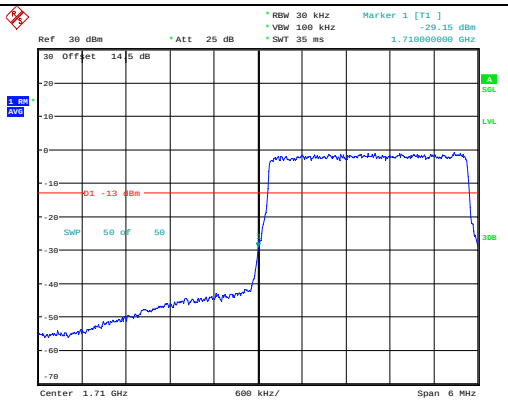
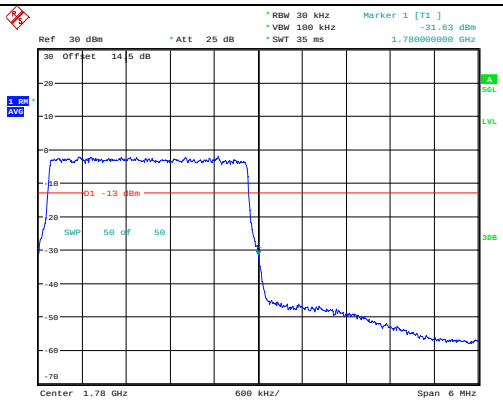
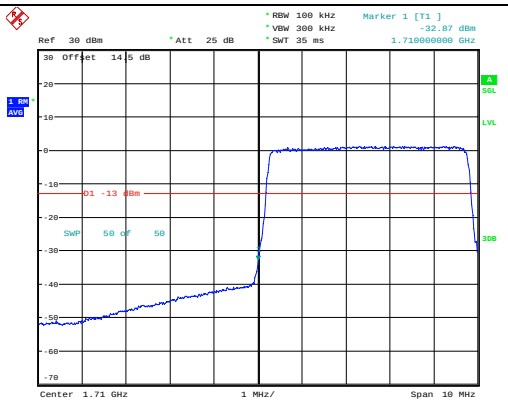
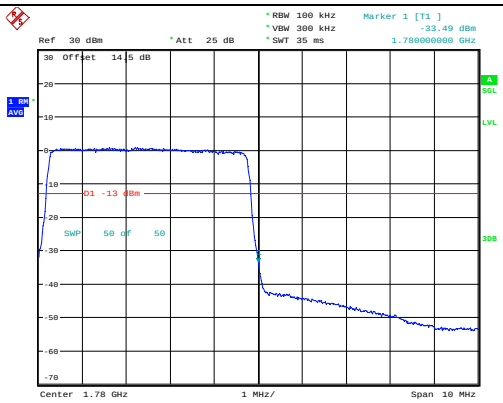
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:19:54	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:20:05
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:20:18	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:20:30
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:20:43	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:20:55

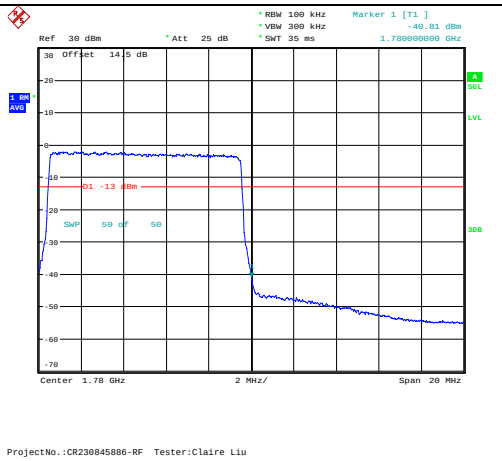
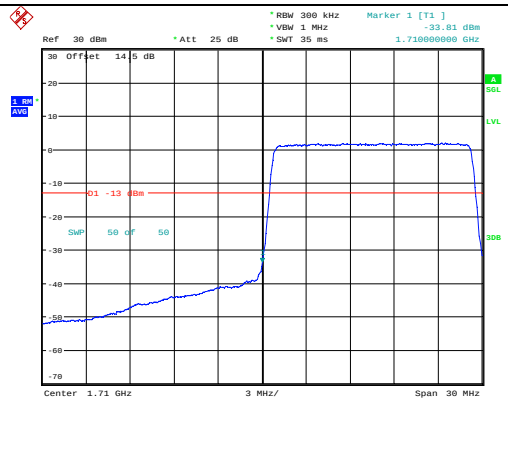
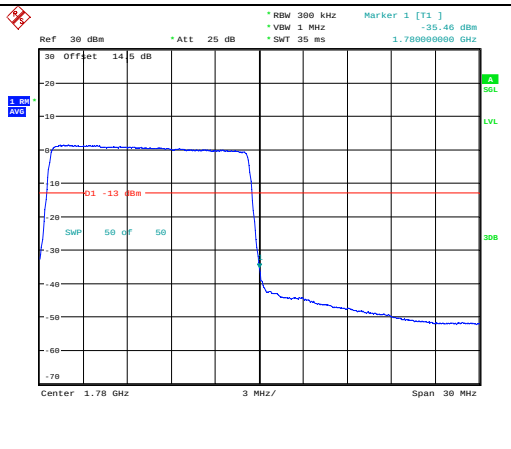
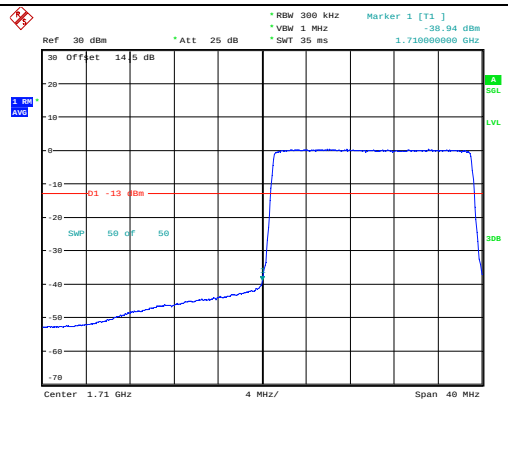
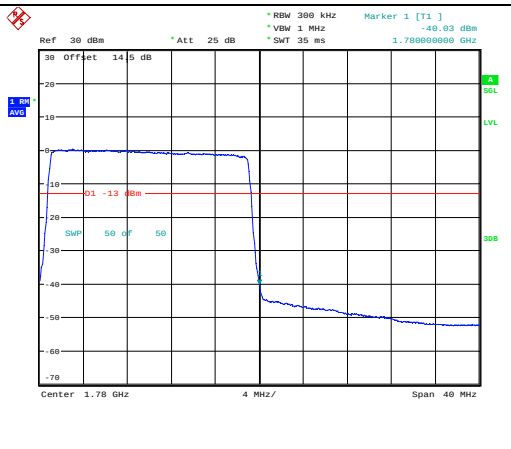
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:21:42	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:21:53
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:22:07	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:22:18
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:22:35	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:22:46

Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:23:07	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:23:18
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:23:47	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:23:58
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:24:12	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 19:24:23

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 1.4MHz	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:04:38	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:04:54
QPSK 3MHz	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:14:55	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:15:12
QPSK 5MHz	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:15:34	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:17:19

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 10MHz		
QPSK 15MHz		
QPSK 20MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 1.4MHz	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:04:46	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:05:01
16QAM 3MHz	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:15:04	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:15:21
16QAM 5MHz	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:15:42	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 17:17:28

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

4.14 Antenna Port Test Data and Results for LTE Band 71

Serial Number:	29K1-1	Test Date:	2023/9/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	26.1	Relative Humidity: (%)	61	ATM Pressure: (kPa)	100.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	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
Unknown	Coaxial tee connector	Unknown	2204004	Each time	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	665.5	680.5	695.5
10MHz	668	680.5	693
15MHz	670.5	680.5	690.5
20MHz	673	680.5	688

Test Data:

RF Output Power

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.83	23.04	22.85	18.75	34.77
	RB1#13	22.9	22.91	22.89		
	RB1#24	22.87	22.83	22.89		
	RB15#0	21.95	22.04	21.94		
	RB15#10	21.98	22.01	22.06		
	RB25#0	22.13	22.05	22.02		
5MHz 16QAM	RB1#0	21.52	21.03	22.08	17.85	34.77
	RB1#13	21.59	21	22.14		
	RB1#24	21.66	20.99	21.97		
	RB15#0	21.67	21.12	20.68		
	RB15#10	21.09	21.66	20.67		
	RB25#0	20.88	21.21	21.07		
10MHz QPSK	RB1#0	23.18	23.04	22.95	18.89	34.77
	RB1#25	23.15	23.08	22.79		
	RB1#49	23.08	23.06	22.9		
	RB25#0	22.05	22	22.07		
	RB25#25	21.94	21.96	22		
	RB50#0	21.96	21.95	21.92		
10MHz 16QAM	RB1#0	22.21	22.02	21.54	17.97	34.77
	RB1#25	22.26	22.13	21.36		
	RB1#49	22.21	22.07	21.29		
	RB25#0	21.22	21.18	21.58		
	RB25#25	21.19	21.67	21.26		
	RB50#0	21.6	21.09	20.93		
15MHz QPSK	RB1#0	23.03	23.65	22.75	19.36	34.77
	RB1#38	22.97	22.8	22.81		
	RB1#74	23.06	22.74	22.68		
	RB36#0	22.19	22.09	21.89		
	RB36#39	22.16	22.08	21.89		
	RB75#0	22.03	21.99	21.92		
15MHz 16QAM	RB1#0	21.95	21.97	22.11	17.96	34.77
	RB1#38	22.05	21.97	22.25		
	RB1#74	22.19	21.95	22.07		
	RB36#0	21.59	21.07	21.13		
	RB36#39	21.68	20.96	20.88		
	RB75#0	21.15	20.98	21.47		
20MHz QPSK	RB1#0	22.87	23.06	22.97	18.82	34.77
	RB1#50	22.84	23.03	22.89		
	RB1#99	22.95	23.11	22.85		
	RB50#0	21.99	21.84	21.96		

	RB50#50	22.15	21.89	21.85		
	RB100#0	21.91	22.05	21.93		
20MHz 16QAM	RB1#0	21.98	22.17	22.8	18.51	34.77
	RB1#50	21.85	22.12	22.53		
	RB1#99	21.98	22.28	22.67		
	RB50#0	21.41	20.92	20.93		
	RB50#50	21.11	20.87	20.9		
	RB100#0	21.46	20.93	21.05		
Note: ERP= Conducted Power(dBm) - L_C(dB) + G_T(dBd) G_T(dBd)=G_T(dBi)-2.15						
Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)						
					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	6.34	6.59	6.27	13
	RB100#0	6.15	6.70	6.15	13
20MHz 16QAM	RB1#0	6.37	6.31	6.45	13
	RB100#0	7.02	7.37	6.99	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	4.56	4.52	4.54	5.00	5.00	4.98
5MHz 16QAM	4.52	4.54	4.52	4.98	4.98	5.00
10MHz QPSK	8.96	9.00	9.00	9.72	9.76	9.76
10MHz 16QAM	8.96	9.00	8.96	9.76	9.80	9.76
15MHz QPSK	13.44	13.62	13.50	14.82	15.00	14.88
15MHz 16QAM	13.44	13.62	13.56	15.00	14.88	15.00
20MHz QPSK	18.00	18.00	17.92	19.60	19.60	19.52
20MHz 16QAM	17.92	18.16	17.92	19.52	19.76	19.60
Note: The test plots please refer to the Plots of Occupied Bandwidth						

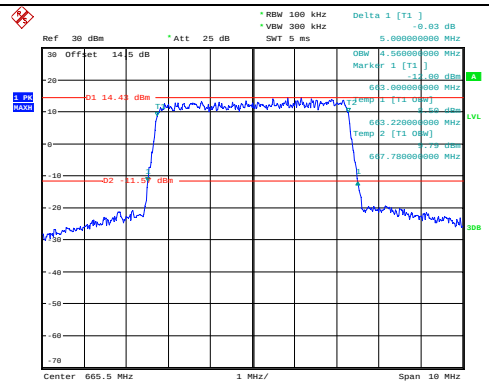
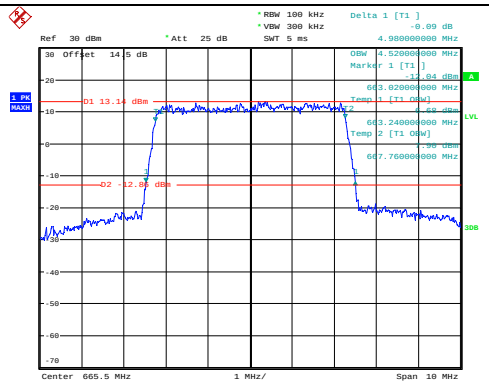
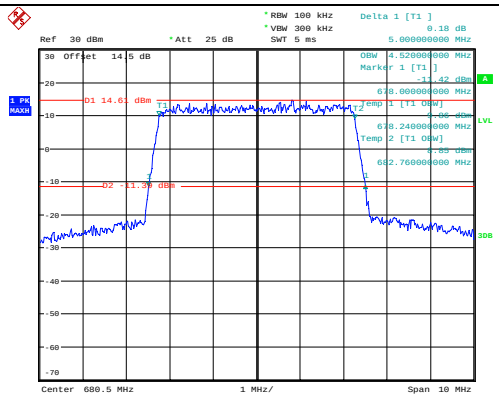
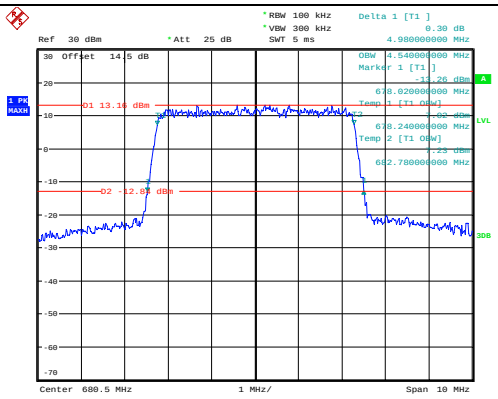
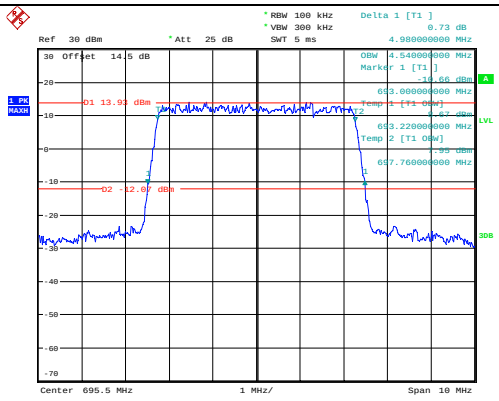
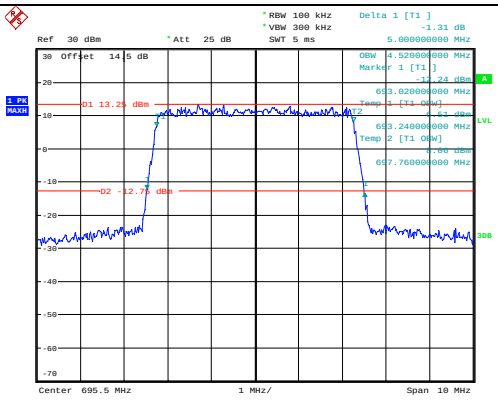
Spurious Emissions at Antenna Terminal	
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

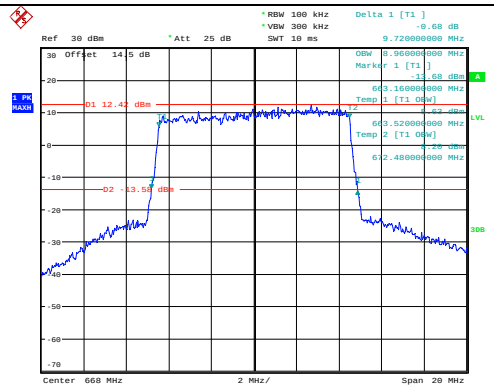
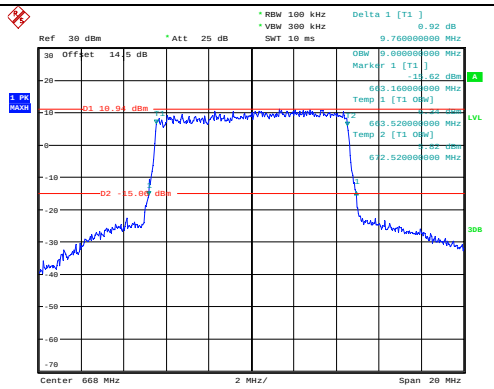
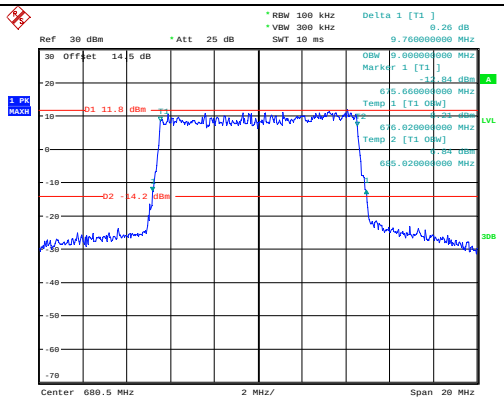
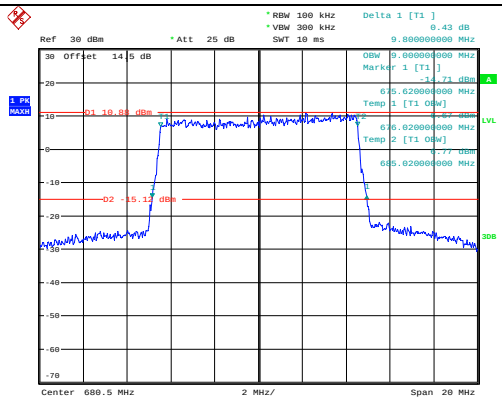
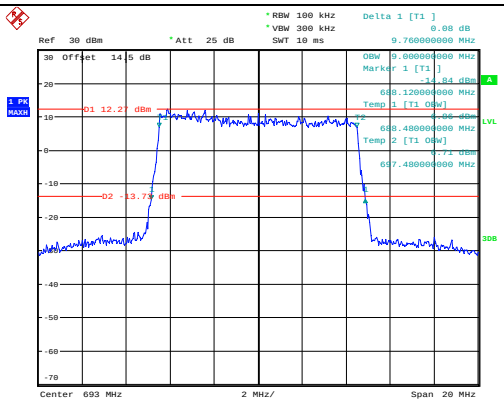
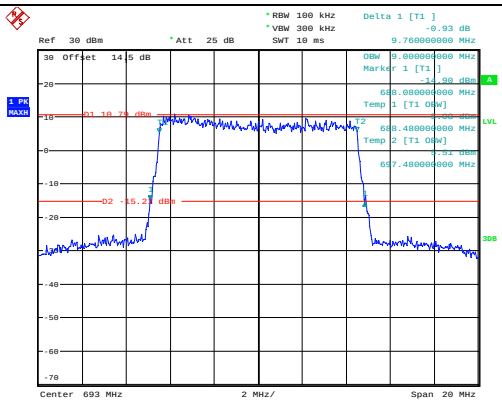
Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

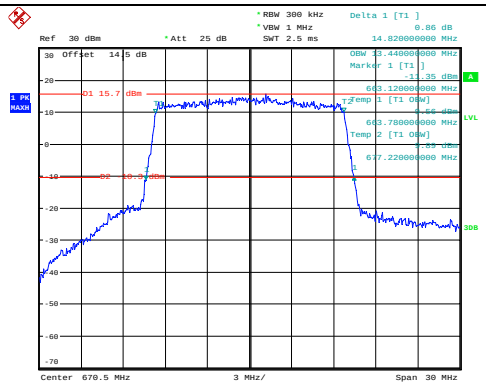
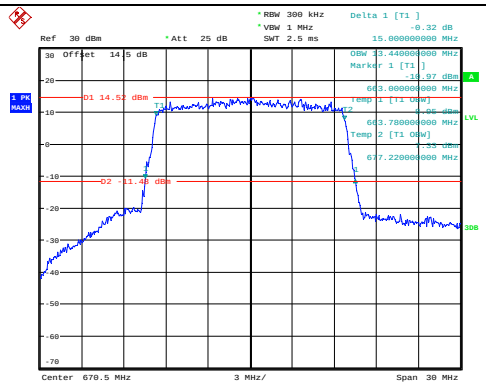
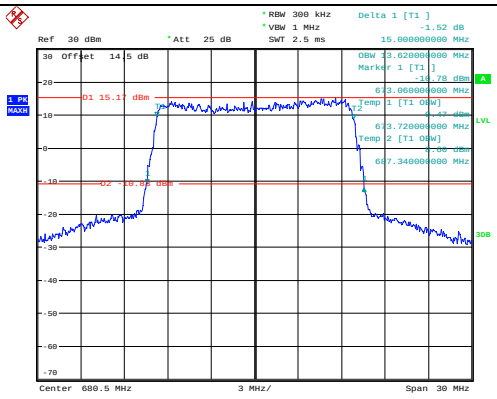
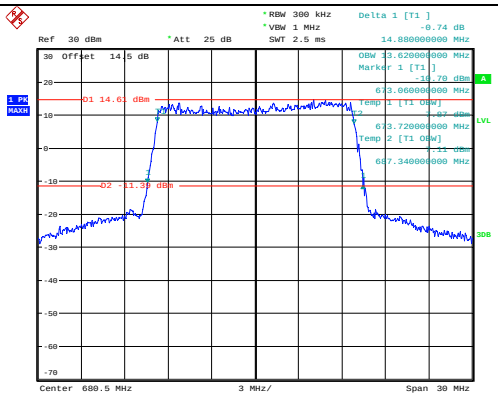
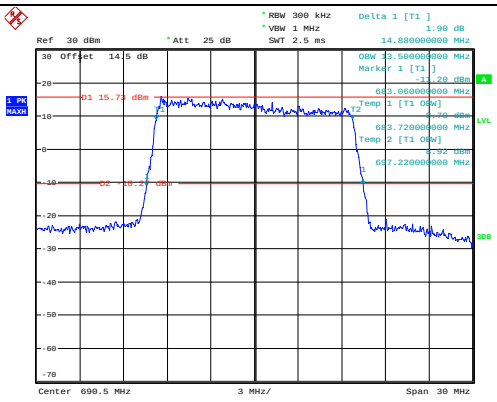
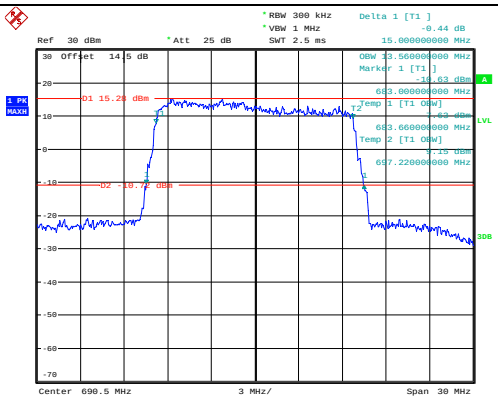
Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.7	664.031	663.00	696.969	698.00
	-20	3.7	664.035	663.00	696.963	698.00
	-10	3.7	664.026	663.00	696.961	698.00
	0	3.7	664.028	663.00	696.975	698.00
	10	3.7	664.021	663.00	696.960	698.00
	20	3.7	664.040	663.00	696.960	698.00
	30	3.7	664.021	663.00	696.972	698.00
	40	3.7	664.013	663.00	696.975	698.00
	50	3.7	664.030	663.00	696.967	698.00
Frequency Stability vs. Voltage	20	3.45	664.035	663.00	696.968	698.00
	20	4.3	664.029	663.00	696.984	698.00
					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	3.7	664.017	663.00	696.985	698.00
	-20	3.7	664.028	663.00	696.980	698.00
	-10	3.7	664.017	663.00	696.986	698.00
	0	3.7	664.034	663.00	696.965	698.00
	10	3.7	664.031	663.00	696.985	698.00
	20	3.7	664.040	663.00	696.960	698.00
	30	3.7	664.023	663.00	696.961	698.00
	40	3.7	664.015	663.00	696.982	698.00
	50	3.7	664.035	663.00	696.980	698.00
Frequency Stability vs. Voltage	20	3.45	664.012	663.00	696.973	698.00
	20	4.3	664.036	663.00	696.968	698.00
					Result:	**Pass**

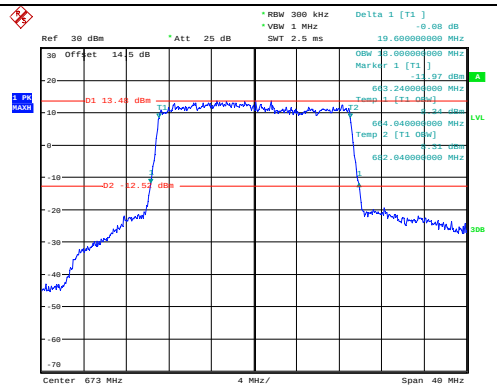
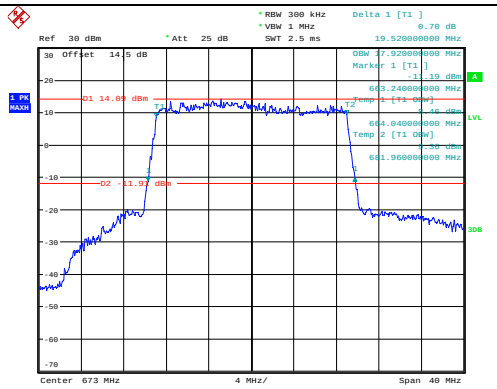
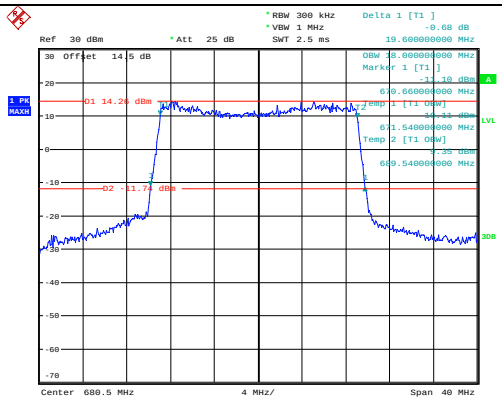
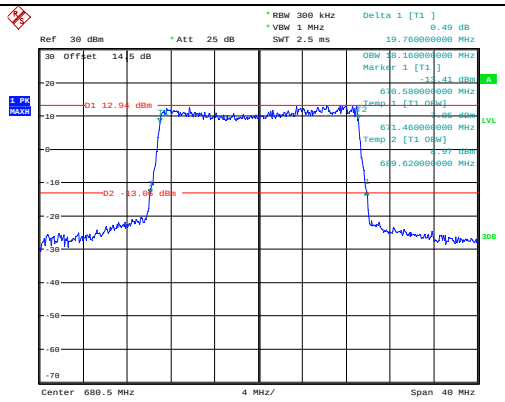
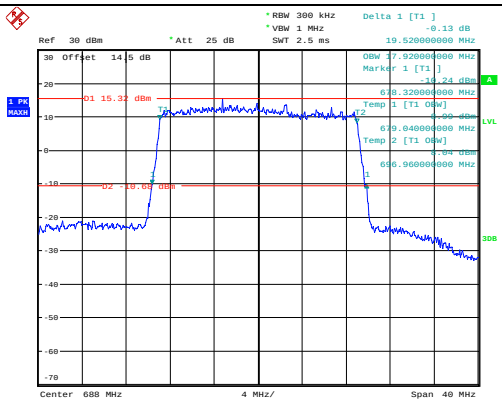
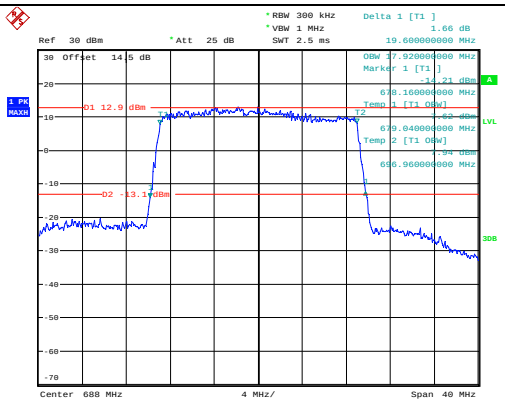
Test Plots(Note: The 14.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer)**:**

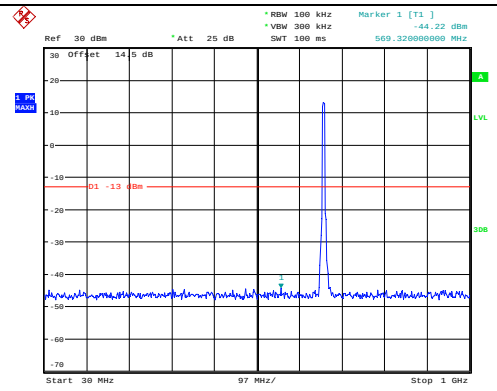
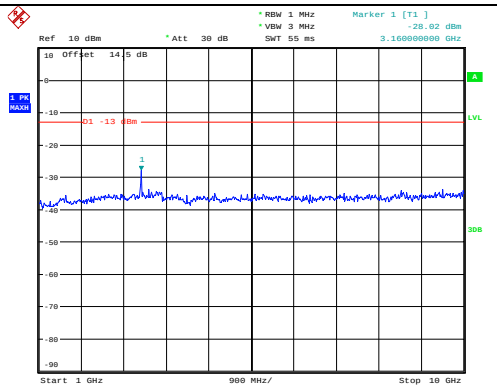
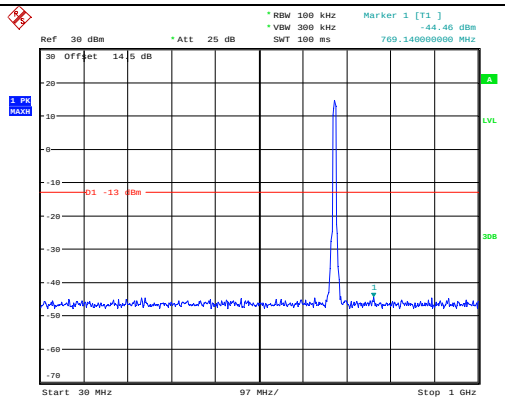
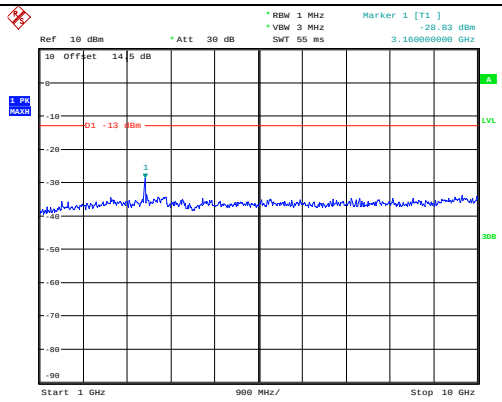
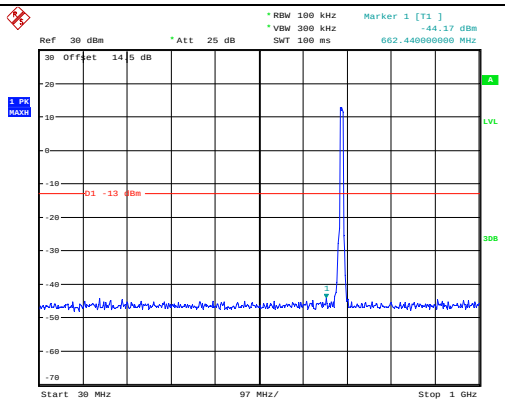
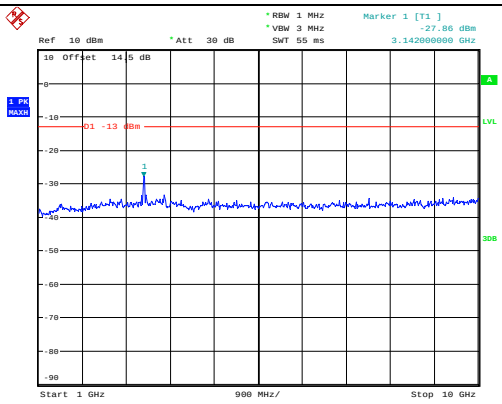
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

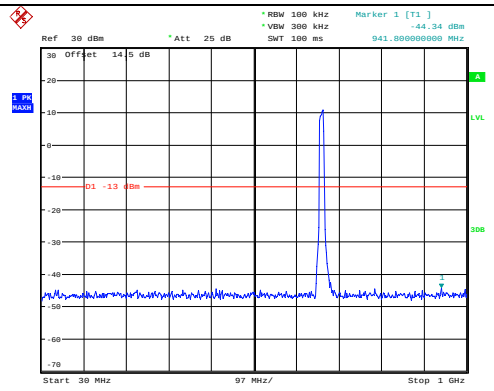
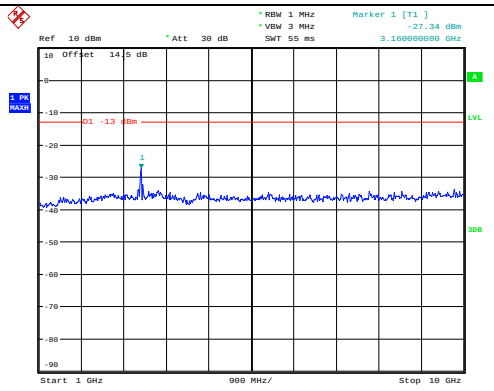
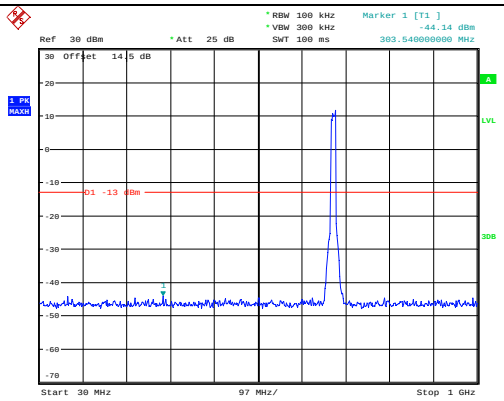
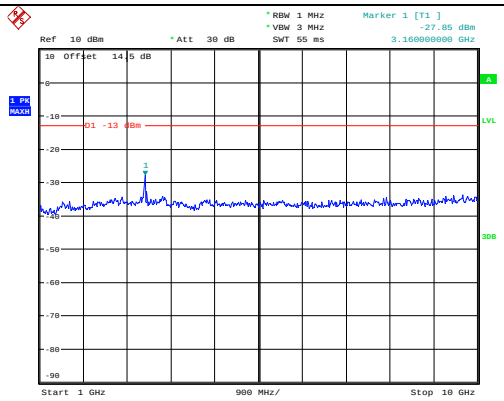
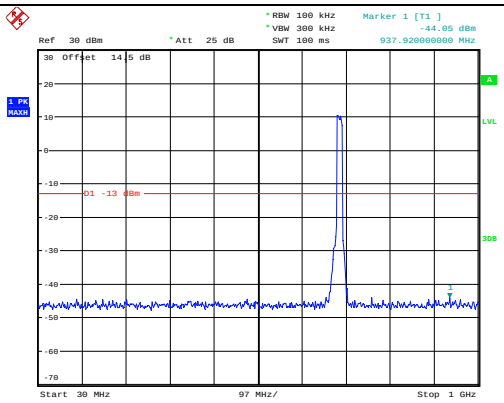
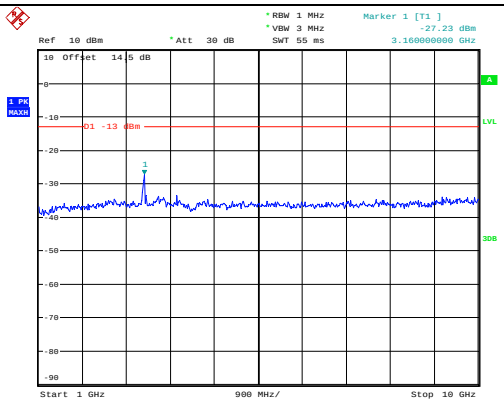
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:21:39	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:21:53
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:22:44	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:23:01
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:23:54	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:24:09

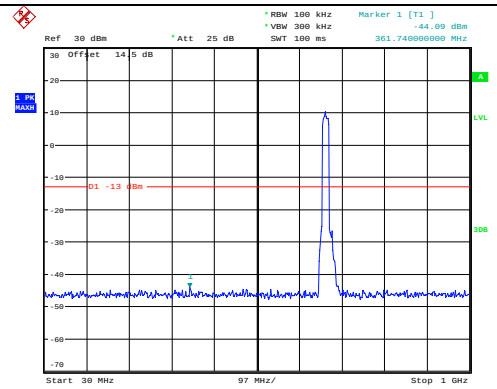
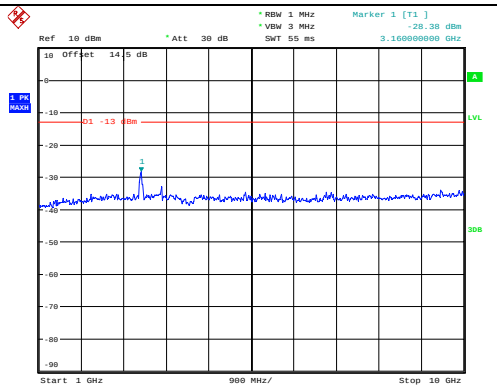
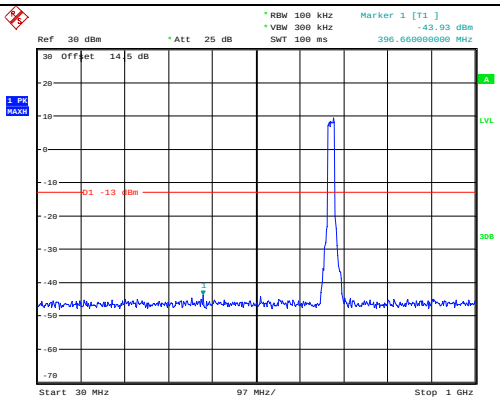
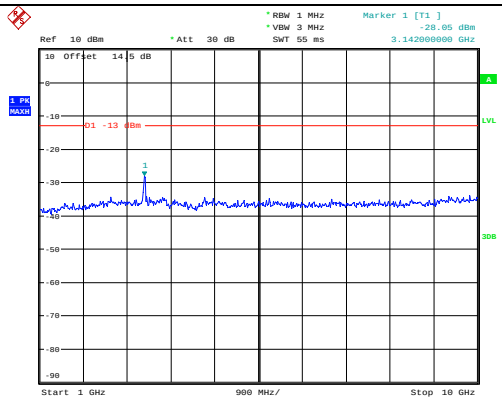
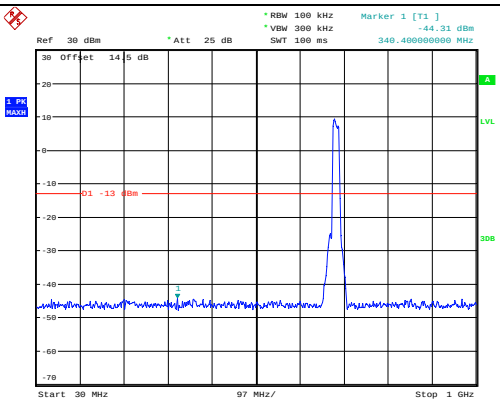
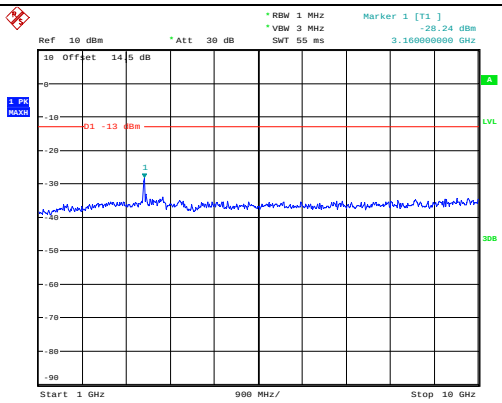
Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

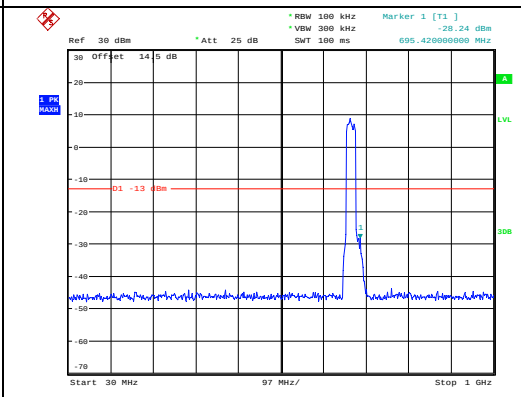
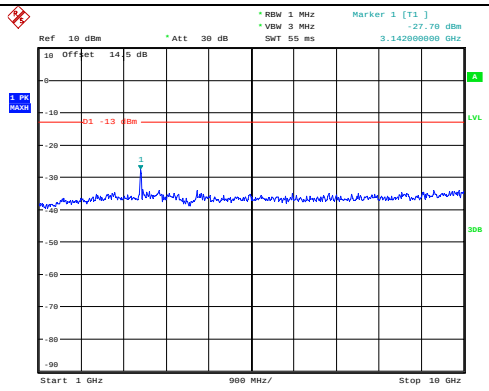
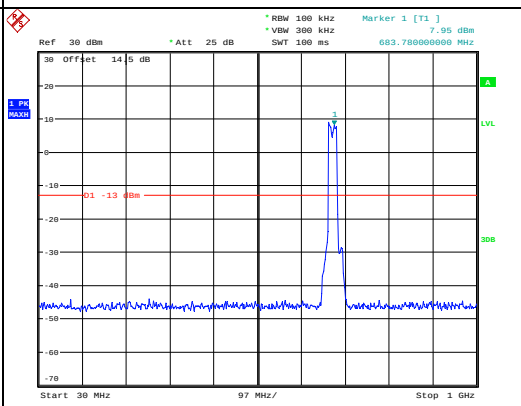
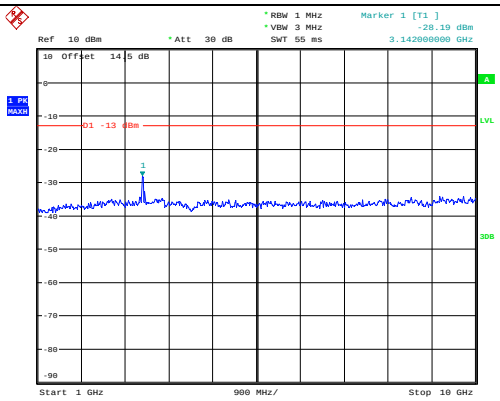
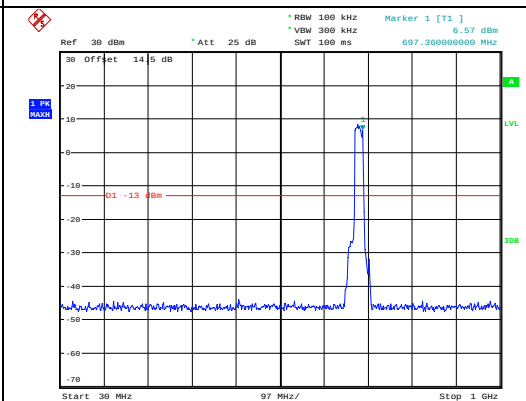
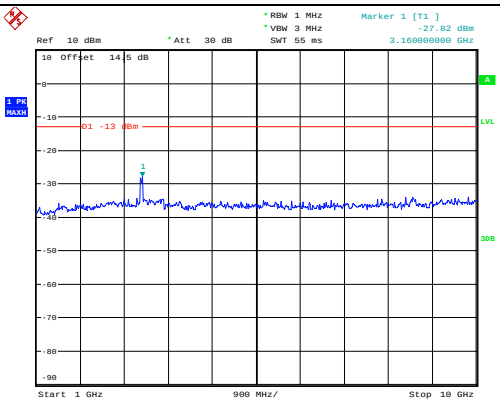
Occupied Bandwidth

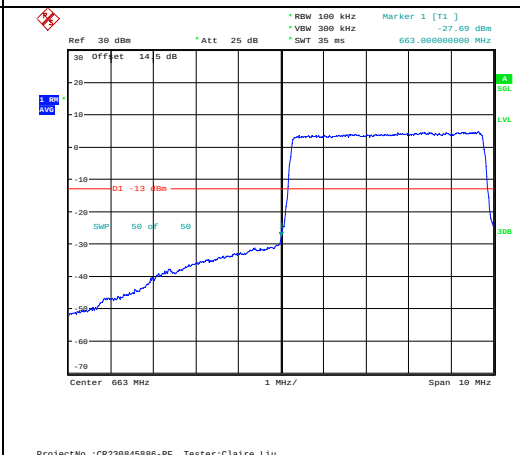
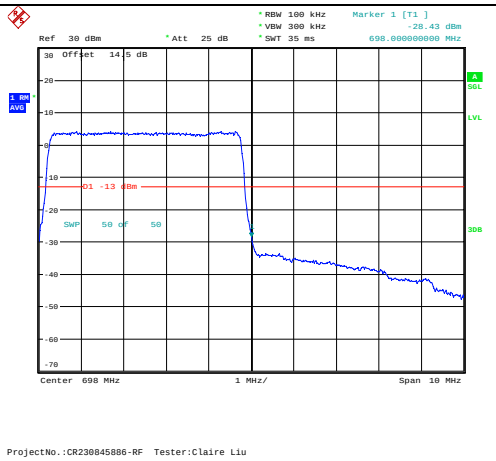
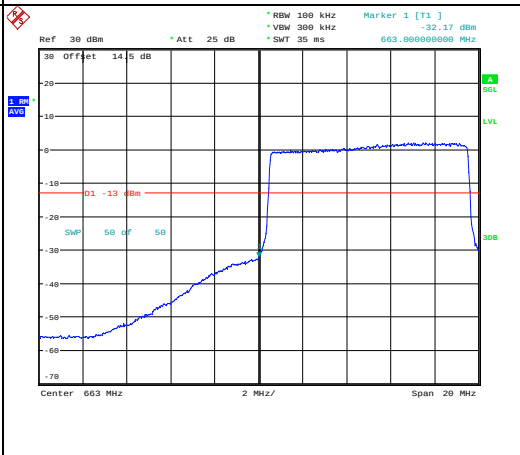
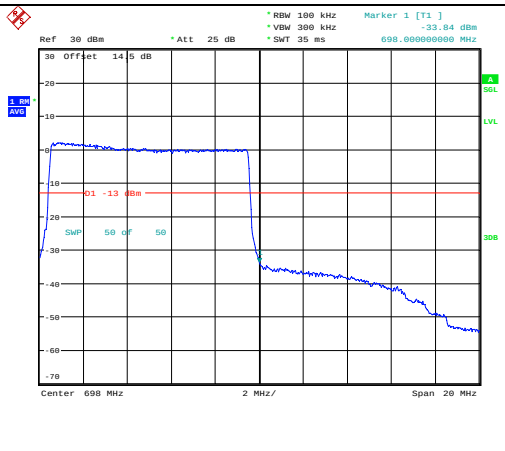
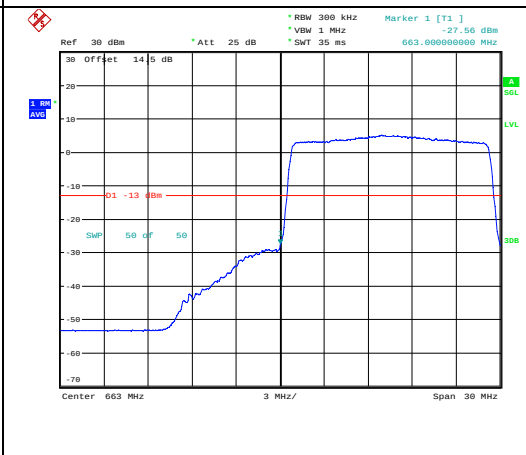
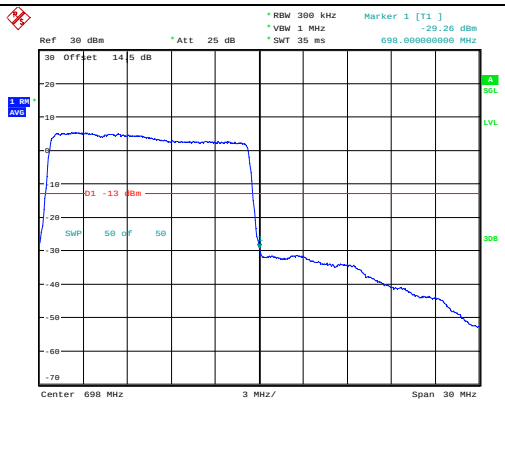
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:28:50	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:29:08
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:30:00	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:30:18
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:31:08	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:31:25

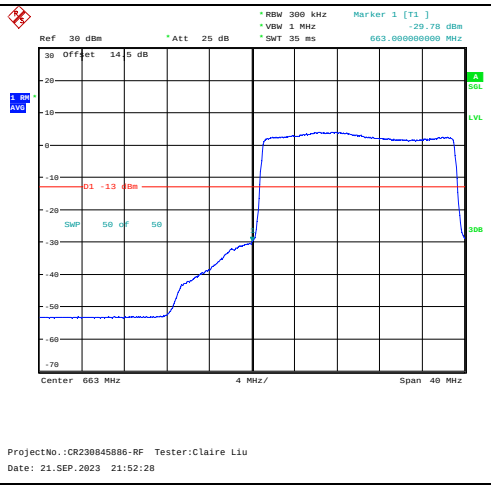
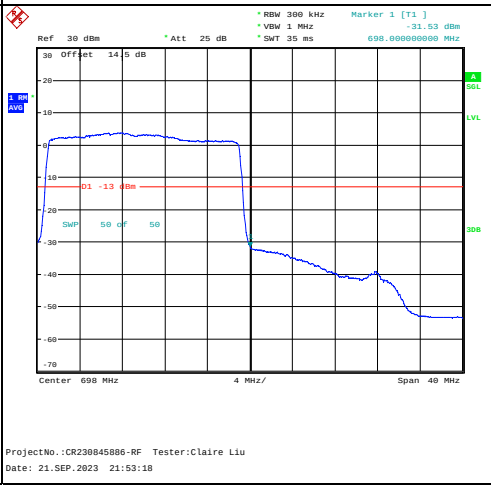
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:56:26	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:56:38
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:57:27	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:57:38
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:58:26	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:58:38

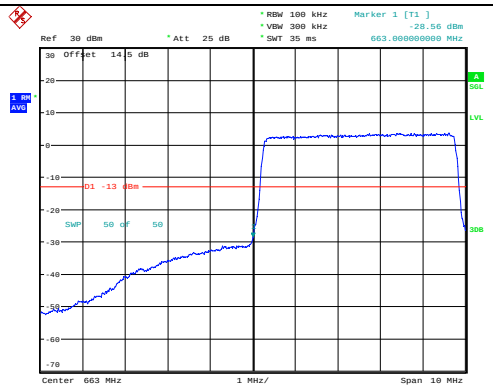
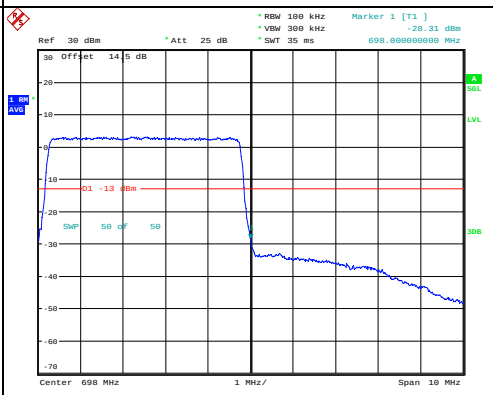
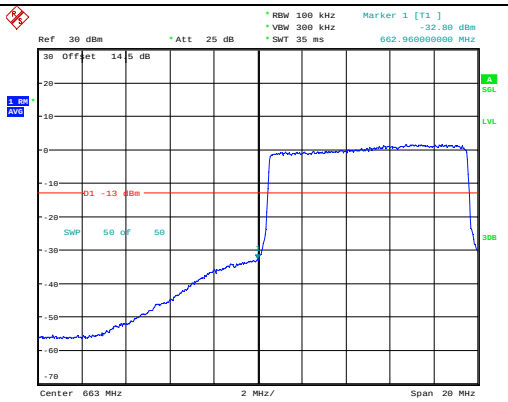
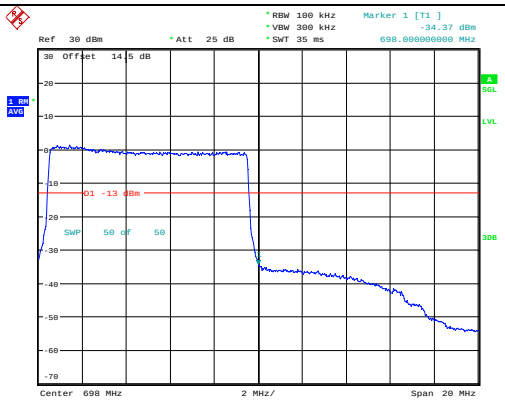
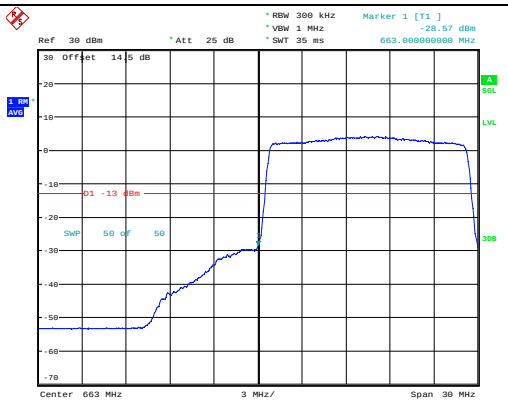
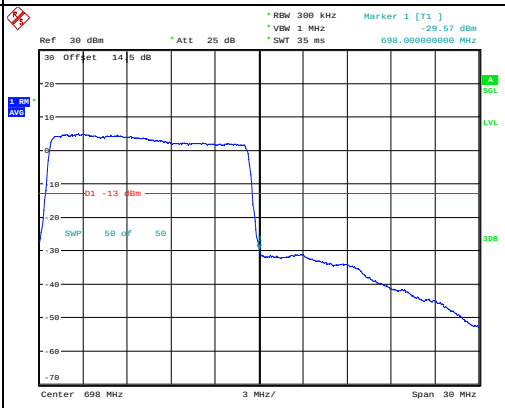
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:59:27	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 21:59:38
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:00:26	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:00:37
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:01:29	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:01:43

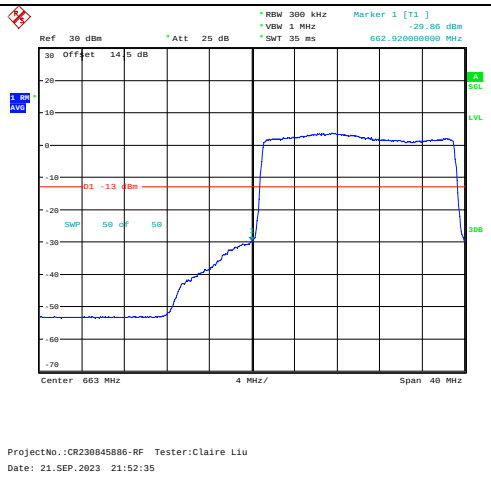
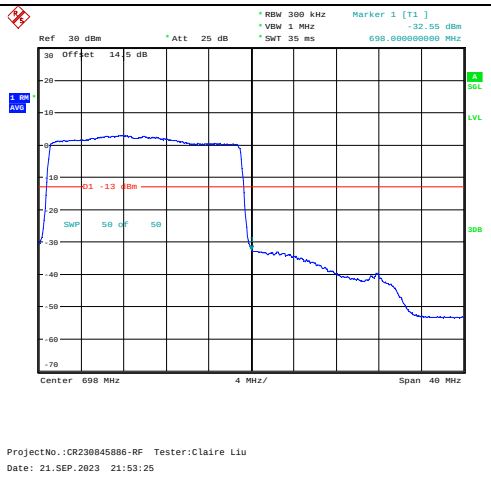
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:02:36	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:02:47
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:03:41	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:03:52
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:04:48	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:04:59

Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:05:52	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:06:03
Middle	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:06:54	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:07:05
Highest	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:07:56	 ProjectNo.:CR230845886-RF Tester:Claire Liu Date: 21.SEP.2023 22:08:08

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		

4.15 Radiated Spurious Emissions

Serial Number:	29K1-1	Test Date:	2023/8/18~2023/8/26
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Carl Xue ,Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.1~26.4	Relative Humidity: (%)	62~66	ATM Pressure: (kPa)	99.7~100

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
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	2022/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
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	2022/11/9	2023/11/8
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
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	2022/9/16	2023/9/15
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:
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Cellular Band (PART 22H)

30 MHz-10 GHz:

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								
724.26	H	21.31	-51.52	0.00	0.51	-52.03	-13.00	39.03
729.55	V	20.75	-48.53	0.00	0.53	-49.06	-13.00	36.06
1648.400	H	46.55	-57.78	8.68	0.80	-49.90	-13.00	36.90
1648.400	V	47.71	-56.70	8.68	0.80	-48.82	-13.00	35.82
2472.600	H	49.97	-50.81	9.38	1.00	-42.43	-13.00	29.43
2472.600	V	47.37	-53.36	9.38	1.00	-44.98	-13.00	31.98
3296.800	H	38.46	-58.22	10.32	1.15	-49.05	-13.00	36.05
3296.800	V	36.89	-59.55	10.32	1.15	-50.38	-13.00	37.38
GSM 850 Frequency:836.6MHz								
699.92	H	20.96	-52.36	0.00	0.55	-52.91	-13.00	39.91
714.38	V	20.84	-48.77	0.00	0.50	-49.27	-13.00	36.27
1673.200	H	44.38	-59.93	8.71	0.85	-52.07	-13.00	39.07
1673.200	V	45.19	-59.22	8.71	0.85	-51.36	-13.00	38.36
2509.800	H	51.71	-48.90	9.42	1.01	-40.49	-13.00	27.49
2509.800	V	53.38	-47.24	9.42	1.01	-38.83	-13.00	25.83
3346.400	H	38.78	-58.39	10.34	1.16	-49.21	-13.00	36.21
3346.400	V	36.56	-60.47	10.34	1.16	-51.29	-13.00	38.29
GSM 850 Frequency:848.8MHz								
719.20	H	20.94	-51.99	0.00	0.49	-52.48	-13.00	39.48
666.04	V	20.69	-49.84	0.00	0.50	-50.34	-13.00	37.34
1697.600	H	42.59	-61.70	8.74	0.90	-53.86	-13.00	40.86
1697.600	V	41.10	-63.32	8.74	0.90	-55.48	-13.00	42.48
2546.400	H	55.78	-44.55	9.47	1.01	-36.09	-13.00	23.09
2546.400	V	51.70	-48.58	9.47	1.01	-40.12	-13.00	27.12
3395.200	H	36.01	-61.68	10.36	1.19	-52.51	-13.00	39.51
3395.200	V	36.23	-61.43	10.36	1.19	-52.26	-13.00	39.26

30 MHz-10 GHz:

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								
716.68	H	20.99	-51.99	0.00	0.50	-52.49	-13.00	39.49
726.93	V	20.70	-48.63	0.00	0.52	-49.15	-13.00	36.15
1652.800	H	40.27	-64.06	8.68	0.81	-56.19	-13.00	43.19
1652.800	V	37.29	-67.12	8.68	0.81	-59.25	-13.00	46.25
2479.200	H	43.35	-57.41	9.39	1.01	-49.03	-13.00	36.03
2479.200	V	44.37	-56.36	9.39	1.01	-47.98	-13.00	34.98
3305.600	H	36.59	-60.14	10.32	1.15	-50.97	-13.00	37.97
3305.600	V	36.47	-60.03	10.32	1.15	-50.86	-13.00	37.86
WCDMA Band 5 Frequency:836.6MHz								
706.70	H	21.29	-51.89	0.00	0.54	-52.43	-13.00	39.43
687.31	V	21.10	-49.05	0.00	0.53	-49.58	-13.00	36.58
1673.200	H	39.78	-64.53	8.71	0.85	-56.67	-13.00	43.67
1673.200	V	38.46	-65.95	8.71	0.85	-58.09	-13.00	45.09
2509.800	H	42.30	-58.31	9.42	1.01	-49.90	-13.00	36.90
2509.800	V	44.84	-55.78	9.42	1.01	-47.37	-13.00	34.37
3346.400	H	36.03	-61.14	10.34	1.16	-51.96	-13.00	38.96
3346.400	V	35.67	-61.36	10.34	1.16	-52.18	-13.00	39.18
WCDMA Band 5 Frequency:846.6MHz								
689.59	H	21.24	-52.14	0.00	0.54	-52.68	-13.00	39.68
711.81	V	20.61	-49.05	0.00	0.51	-49.56	-13.00	36.56
1693.200	H	40.03	-64.27	8.73	0.89	-56.43	-13.00	43.43
1693.200	V	37.59	-66.83	8.73	0.89	-58.99	-13.00	45.99
2539.800	H	39.88	-60.50	9.46	1.01	-52.05	-13.00	39.05
2539.800	V	44.62	-55.72	9.46	1.01	-47.27	-13.00	34.27
3386.400	H	36.14	-61.45	10.35	1.18	-52.28	-13.00	39.28
3386.400	V	36.01	-61.53	10.35	1.18	-52.36	-13.00	39.36

PCS Band (PART 24E)

30 MHz-20 GHz:

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								
145.85	H	31.80	-80.30	0.00	0.22	-80.52	-13.00	67.52
45.21	V	36.63	-59.88	-19.59	0.12	-79.59	-13.00	66.59
3700.400	H	46.83	-50.49	10.60	1.25	-41.14	-13.00	28.14
3700.400	V	45.68	-51.62	10.60	1.25	-42.27	-13.00	29.27
5550.600	H	39.51	-53.75	11.44	1.49	-43.80	-13.00	30.80
5550.600	V	39.65	-53.45	11.44	1.49	-43.50	-13.00	30.50
GSM 1900 Frequency:1880MHz								
137.42	H	31.97	-80.30	0.00	0.22	-80.52	-13.00	67.52
44.58	V	36.78	-58.98	-20.35	0.12	-79.45	-13.00	66.45
3760.000	H	47.73	-48.68	10.66	1.24	-39.26	-13.00	26.26
3760.000	V	43.11	-53.18	10.66	1.24	-43.76	-13.00	30.76
5640.000	H	41.39	-52.06	11.33	1.54	-42.27	-13.00	29.27
5640.000	V	40.47	-52.86	11.33	1.54	-43.07	-13.00	30.07
GSM 1900 Frequency:1909.8MHz								
144.32	H	31.88	-80.27	0.00	0.22	-80.49	-13.00	67.49
43.81	V	36.71	-58.05	-21.37	0.12	-79.54	-13.00	66.54
3819.600	H	44.28	-51.58	10.72	1.29	-42.15	-13.00	29.15
3819.600	V	45.38	-50.34	10.72	1.29	-40.91	-13.00	27.91
5729.400	H	40.41	-53.07	11.22	1.59	-43.44	-13.00	30.44
5729.400	V	40.26	-53.10	11.22	1.59	-43.47	-13.00	30.47

30 MHz-20 GHz:

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 2, Frequency:1852.4 MHz								
137.42	H	31.91	-80.36	0.00	0.22	-80.58	-13.00	67.58
43.80	V	36.36	-58.38	-21.38	0.12	-79.88	-13.00	66.88
3704.800	H	41.64	-55.62	10.60	1.25	-46.27	-13.00	33.27
3704.800	V	39.84	-57.39	10.60	1.25	-48.04	-13.00	35.04
5557.200	H	40.58	-52.70	11.43	1.49	-42.76	-13.00	29.76
5557.200	V	41.55	-51.58	11.43	1.49	-41.64	-13.00	28.64
WCDMA Band 2, Frequency:1880 MHz								
146.87	H	31.84	-80.22	0.00	0.23	-80.45	-13.00	67.45
34.51	V	36.58	-47.87	-24.23	0.11	-72.21	-13.00	59.21
3760.000	H	40.02	-56.39	10.66	1.24	-46.97	-13.00	33.97
3760.000	V	39.24	-57.05	10.66	1.24	-47.63	-13.00	34.63
5640.000	H	42.29	-51.16	11.33	1.54	-41.37	-13.00	28.37
5640.000	V	44.56	-48.77	11.33	1.54	-38.98	-13.00	25.98
WCDMA Band 2, Frequency:1907.6MHz								
146.36	H	31.61	-80.47	0.00	0.22	-80.69	-13.00	67.69
33.79	V	36.50	-47.23	-24.56	0.11	-71.90	-13.00	58.90
3815.200	H	41.76	-54.09	10.72	1.29	-44.66	-13.00	31.66
3815.200	V	40.69	-55.00	10.72	1.29	-45.57	-13.00	32.57
5722.800	H	39.01	-54.48	11.23	1.58	-44.83	-13.00	31.83
5722.800	V	42.87	-50.48	11.23	1.58	-40.83	-13.00	27.83

AWS Band(Part 27)

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 4 Frequency: 1712.4 MHz								
145.40	H	31.40	-80.71	0.00	0.23	-80.94	-13.00	67.94
43.80	V	36.54	-58.20	-21.38	0.12	-79.70	-13.00	66.70
3424.800	H	38.77	-59.00	10.37	1.17	-49.80	-13.00	36.80
3424.800	V	38.73	-59.01	10.37	1.17	-49.81	-13.00	36.81
5137.200	H	36.01	-57.61	11.28	1.46	-47.79	-13.00	34.79
5137.200	V	36.41	-57.09	11.28	1.46	-47.27	-13.00	34.27
WCDMA Band 4 Frequency: 1732.6 MHz								
207.85	H	31.85	-80.88	0.00	0.26	-81.14	-13.00	68.14
33.79	V	36.62	-47.11	-24.56	0.11	-71.78	-13.00	58.78
3465.200	H	43.32	-54.49	10.39	1.15	-45.25	-13.00	32.25
3465.200	V	41.72	-56.05	10.39	1.15	-46.81	-13.00	33.81
5197.800	H	38.01	-56.12	11.32	1.44	-46.24	-13.00	33.24
5197.800	V	37.46	-56.52	11.32	1.44	-46.64	-13.00	33.64
WCDMA Band 4 Frequency: 1752.6 MHz								
135.56	H	31.58	-80.67	0.00	0.22	-80.89	-13.00	67.89
34.63	V	36.69	-47.88	-24.17	0.11	-72.16	-13.00	59.16
3505.200	H	39.95	-57.88	10.41	1.18	-48.65	-13.00	35.65
3505.200	V	38.83	-58.94	10.41	1.18	-49.71	-13.00	36.71
5257.800	H	35.77	-57.96	11.35	1.47	-48.08	-13.00	35.08
5257.800	V	36.45	-57.06	11.35	1.47	-47.18	-13.00	34.18

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)			
1.4MHz, QPSK,Frequency:1850.7 MHz								
143.32	H	31.73	-80.45	0.00	0.22	-80.67	-13.00	67.67
45.05	V	36.45	-59.90	-19.75	0.12	-79.77	-13.00	66.77
3701.400	H	40.10	-57.21	10.60	1.25	-47.86	-13.00	34.86
3701.400	V	43.78	-53.51	10.60	1.25	-44.16	-13.00	31.16
5552.100	H	39.56	-53.71	11.44	1.49	-43.76	-13.00	30.76
5552.100	V	43.77	-49.33	11.44	1.49	-39.38	-13.00	26.38
1.4MHz, QPSK,Frequency:1880 MHz								
140.83	H	31.67	-80.60	0.00	0.22	-80.82	-13.00	67.82
71.79	V	36.77	-66.91	-4.11	0.15	-71.17	-13.00	58.17
3760.000	H	39.49	-56.92	10.66	1.24	-47.50	-13.00	34.50
3760.000	V	45.37	-50.92	10.66	1.24	-41.50	-13.00	28.50
5640.000	H	40.85	-52.60	11.33	1.54	-42.81	-13.00	29.81
5640.000	V	44.77	-48.56	11.33	1.54	-38.77	-13.00	25.77
1.4MHz, QPSK,Frequency:1909.3 MHz								
135.50	H	32.06	-80.19	0.00	0.22	-80.41	-13.00	67.41
44.58	V	36.71	-59.05	-20.35	0.12	-79.52	-13.00	66.52
3818.600	H	41.02	-54.84	10.72	1.29	-45.41	-13.00	32.41
3818.600	V	44.59	-51.12	10.72	1.29	-41.69	-13.00	28.69
5727.900	H	40.39	-53.09	11.23	1.59	-43.45	-13.00	30.45
5727.900	V	45.27	-48.09	11.23	1.59	-38.45	-13.00	25.45

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								
142.82	H	31.49	-80.71	0.00	0.22	-80.93	-13.00	67.93
71.83	V	36.75	-66.95	-4.09	0.15	-71.19	-13.00	58.19
3421.400	H	41.36	-56.40	10.37	1.17	-47.20	-13.00	34.20
3421.400	V	40.44	-57.29	10.37	1.17	-48.09	-13.00	35.09
5132.100	H	41.83	-51.74	11.28	1.47	-41.93	-13.00	28.93
5132.100	V	41.80	-51.66	11.28	1.47	-41.85	-13.00	28.85
1.4MHz, QPSK,Frequency:1732.5 MHz								
135.50	H	31.92	-80.33	0.00	0.22	-80.55	-13.00	67.55
70.58	V	36.41	-66.55	-4.71	0.15	-71.41	-13.00	58.41
3465.000	H	44.44	-53.37	10.39	1.15	-44.13	-13.00	31.13
3465.000	V	42.50	-55.27	10.39	1.15	-46.03	-13.00	33.03
5197.500	H	37.41	-56.72	11.32	1.44	-46.84	-13.00	33.84
5197.500	V	42.26	-51.72	11.32	1.44	-41.84	-13.00	28.84
1.4MHz, QPSK,Frequency:1754.3MHz								
143.31	H	31.72	-80.46	0.00	0.22	-80.68	-13.00	67.68
44.60	V	36.80	-58.98	-20.33	0.12	-79.43	-13.00	66.43
3508.600	H	39.38	-58.44	10.41	1.19	-49.22	-13.00	36.22
3508.600	V	42.14	-55.62	10.41	1.19	-46.40	-13.00	33.40
5262.900	H	39.69	-54.01	11.36	1.47	-44.12	-13.00	31.12
5262.900	V	39.79	-53.68	11.36	1.47	-43.79	-13.00	30.79

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)			
1.4MHz, QPSK, Frequency: 824.7 MHz								
726.79	H	20.97	-51.81	0.00	0.52	-52.33	-13.00	39.33
714.17	V	21.45	-48.16	0.00	0.50	-48.66	-13.00	35.66
1649.400	H	45.36	-58.97	8.68	0.80	-51.09	-13.00	38.09
1649.400	V	40.99	-63.42	8.68	0.80	-55.54	-13.00	42.54
2474.100	H	49.99	-50.79	9.38	1.00	-42.41	-13.00	29.41
2474.100	V	52.59	-48.14	9.38	1.00	-39.76	-13.00	26.76
3298.800	H	36.05	-60.63	10.32	1.15	-51.46	-13.00	38.46
3298.800	V	36.27	-60.17	10.32	1.15	-51.00	-13.00	38.00
1.4MHz, QPSK, Frequency: 836.5 MHz								
701.77	H	20.90	-52.38	0.00	0.55	-52.93	-13.00	39.93
692.08	V	20.96	-49.10	0.00	0.54	-49.64	-13.00	36.64
1673.000	H	45.05	-59.26	8.71	0.85	-51.40	-13.00	38.40
1673.000	V	43.83	-60.58	8.71	0.85	-52.72	-13.00	39.72
2509.500	H	50.27	-50.34	9.42	1.01	-41.93	-13.00	28.93
2509.500	V	51.11	-49.51	9.42	1.01	-41.10	-13.00	28.10
3346.000	H	35.81	-61.35	10.34	1.16	-52.17	-13.00	39.17
3346.000	V	36.78	-60.24	10.34	1.16	-51.06	-13.00	38.06
1.4MHz, QPSK, Frequency: 848.3 MHz								
661.20	H	20.72	-52.81	0.00	0.51	-53.32	-13.00	40.32
706.70	V	20.87	-48.90	0.00	0.54	-49.44	-13.00	36.44
1696.600	H	37.45	-66.84	8.74	0.89	-58.99	-13.00	45.99
1696.600	V	37.13	-67.29	8.74	0.89	-59.44	-13.00	46.44
2544.900	H	50.98	-49.36	9.47	1.01	-40.90	-13.00	27.90
2544.900	V	49.66	-50.64	9.47	1.01	-42.18	-13.00	29.18
3393.200	H	36.04	-61.63	10.36	1.19	-52.46	-13.00	39.46
3393.200	V	36.02	-61.61	10.36	1.19	-52.44	-13.00	39.44

LTE Band 12(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)			
1.4MHz, QPSK, Frequency: 699.7 MHz								
581.01	H	20.68	-53.55	0.00	0.46	-54.01	-13.00	41.01
513.79	V	20.83	-50.77	0.00	0.44	-51.21	-13.00	38.21
1399.400	H	41.27	-62.43	8.22	0.71	-54.92	-13.00	41.92
1399.400	V	47.48	-56.27	8.22	0.71	-48.76	-13.00	35.76
2099.100	H	57.40	-44.48	9.16	0.91	-36.23	-13.00	23.23
2099.100	V	56.24	-45.59	9.16	0.91	-37.34	-13.00	24.34
2798.800	H	36.34	-63.59	9.88	1.04	-54.75	-13.00	41.75
2798.800	V	35.67	-64.13	9.88	1.04	-55.29	-13.00	42.29
1.4MHz, QPSK, Frequency: 707.5 MHz								
487.65	H	20.62	-55.46	0.00	0.44	-55.90	-13.00	42.90
572.73	V	21.15	-50.54	0.00	0.46	-51.00	-13.00	38.00
1415.000	H	43.41	-60.26	8.26	0.72	-52.72	-13.00	39.72
1415.000	V	44.67	-59.05	8.26	0.72	-51.51	-13.00	38.51
2122.500	H	59.60	-42.39	9.17	0.92	-34.14	-13.00	21.14
2122.500	V	56.98	-44.99	9.17	0.92	-36.74	-13.00	23.74
2830.000	H	35.46	-64.34	9.93	1.06	-55.47	-13.00	42.47
2830.000	V	36.12	-63.61	9.93	1.06	-54.74	-13.00	41.74
1.4MHz, QPSK, Frequency: 715.3 MHz								
449.90	H	20.93	-55.92	0.00	0.43	-56.35	-13.00	43.35
554.96	V	20.97	-50.69	0.00	0.49	-51.18	-13.00	38.18
1430.600	H	42.78	-60.85	8.31	0.73	-53.27	-13.00	40.27
1430.600	V	44.00	-59.69	8.31	0.73	-52.11	-13.00	39.11
2145.900	H	57.78	-44.32	9.19	0.93	-36.06	-13.00	23.06
2145.900	V	52.02	-50.09	9.19	0.93	-41.83	-13.00	28.83
2861.200	H	36.41	-63.24	9.98	1.07	-54.33	-13.00	41.33
2861.200	V	36.01	-63.66	9.98	1.07	-54.75	-13.00	41.75

LTE Band 17(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)			
5MHz, QPSK, Frequency: 706.5 MHz								
568.75	H	20.56	-53.92	0.00	0.46	-54.38	-13.00	41.38
564.77	V	20.62	-51.06	0.00	0.46	-51.52	-13.00	38.52
1413.000	H	41.37	-62.30	8.26	0.72	-54.76	-13.00	41.76
1413.000	V	41.12	-62.60	8.26	0.72	-55.06	-13.00	42.06
2119.500	H	51.67	-50.30	9.17	0.92	-42.05	-13.00	29.05
2119.500	V	50.65	-51.30	9.17	0.92	-43.05	-13.00	30.05
2826.000	H	36.55	-63.26	9.92	1.06	-54.40	-13.00	41.40
2826.000	V	36.04	-63.70	9.92	1.06	-54.84	-13.00	41.84
5MHz, QPSK, Frequency: 710 MHz								
537.75	H	20.70	-54.39	0.00	0.46	-54.85	-13.00	41.85
452.93	V	20.73	-52.72	0.00	0.42	-53.14	-13.00	40.14
1420.000	H	41.95	-61.71	8.28	0.73	-54.16	-13.00	41.16
1420.000	V	41.12	-62.59	8.28	0.73	-55.04	-13.00	42.04
2130.000	H	50.83	-51.19	9.18	0.92	-42.93	-13.00	29.93
2130.000	V	49.61	-52.40	9.18	0.92	-44.14	-13.00	31.14
2840.000	H	37.11	-62.64	9.94	1.06	-53.76	-13.00	40.76
2840.000	V	36.34	-63.37	9.94	1.06	-54.49	-13.00	41.49
5MHz, QPSK, Frequency: 713.5 MHz								
503.12	H	20.64	-55.13	0.00	0.45	-55.58	-13.00	42.58
620.80	V	20.57	-50.78	0.00	0.49	-51.27	-13.00	38.27
1427.000	H	42.01	-61.63	8.30	0.73	-54.06	-13.00	41.06
1427.000	V	47.01	-56.68	8.30	0.73	-49.11	-13.00	36.11
2140.500	H	53.03	-49.04	9.18	0.93	-40.79	-13.00	27.79
2140.500	V	51.46	-50.62	9.18	0.93	-42.37	-13.00	29.37
2854.000	H	37.44	-62.25	9.97	1.07	-53.35	-13.00	40.35
2854.000	V	41.03	-58.65	9.97	1.07	-49.75	-13.00	36.75

LTE Band 41(30MHz-26.55 GHz):

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: 2557.5 MHz								
140.83	H	32.38	-79.89	0.00	0.22	-80.11	-25.00	55.11
44.60	V	37.20	-58.58	-20.33	0.12	-79.03	-25.00	54.03
5115.000	H	40.83	-52.60	11.27	1.51	-42.84	-25.00	17.84
5115.000	V	43.11	-50.22	11.27	1.51	-40.46	-25.00	15.46
7672.500	H	41.15	-48.36	10.87	2.03	-39.52	-25.00	14.52
7672.500	V	41.37	-48.82	10.87	2.03	-39.98	-25.00	14.98
5MHz, QPSK, Frequency: 2605 MHz								
144.83	H	32.17	-79.96	0.00	0.23	-80.19	-25.00	55.19
71.83	V	37.24	-66.46	-4.09	0.15	-70.70	-25.00	45.70
5210.000	H	43.54	-50.54	11.33	1.45	-40.66	-25.00	15.66
5210.000	V	46.11	-47.81	11.33	1.45	-37.93	-25.00	12.93
7815.000	H	38.78	-50.62	10.84	1.99	-41.77	-25.00	16.77
7815.000	V	40.69	-49.10	10.84	1.99	-40.25	-25.00	15.25
5MHz, QPSK, Frequency: 2652.5 MHz								
133.62	H	32.50	-79.73	0.00	0.22	-79.95	-25.00	54.95
72.50	V	36.86	-67.24	-3.75	0.16	-71.15	-25.00	46.15
5305.000	H	44.11	-49.32	11.38	1.46	-39.40	-25.00	14.40
5305.000	V	47.33	-45.85	11.38	1.46	-35.93	-25.00	10.93
7957.500	H	38.02	-50.41	10.81	2.09	-41.69	-25.00	16.69
7957.500	V	39.01	-49.86	10.81	2.09	-41.14	-25.00	16.14

LTE Band 66 (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)			
1.4MHz, QPSK, Frequency: 1710.7MHz								
207.78	H	31.51	-81.23	0.00	0.26	-81.49	-13.00	68.49
56.76	V	36.24	-68.22	-11.79	0.14	-80.15	-13.00	67.15
3421.400	H	44.58	-53.18	10.37	1.17	-43.98	-13.00	30.98
3421.400	V	44.67	-53.06	10.37	1.17	-43.86	-13.00	30.86
5132.100	H	45.92	-47.65	11.28	1.47	-37.84	-13.00	24.84
5132.100	V	46.68	-46.78	11.28	1.47	-36.97	-13.00	23.97
1.4MHz, QPSK, Frequency:1745 MHz								
147.94	H	31.74	-80.28	0.00	0.22	-80.50	-13.00	67.50
43.80	V	35.84	-58.90	-21.38	0.12	-80.40	-13.00	67.40
3490.000	H	47.78	-50.06	10.40	1.17	-40.83	-13.00	27.83
3490.000	V	44.79	-52.99	10.40	1.17	-43.76	-13.00	30.76
5235.000	H	46.04	-47.86	11.34	1.46	-37.98	-13.00	24.98
5235.000	V	50.26	-43.45	11.34	1.46	-33.57	-13.00	20.57
1.4MHz, QPSK, Frequency: 1779.3 MHz								
136.95	H	31.70	-80.57	0.00	0.22	-80.79	-13.00	67.79
34.15	V	35.96	-48.13	-24.39	0.11	-72.63	-13.00	59.63
3558.600	H	45.15	-52.52	10.46	1.22	-43.28	-13.00	30.28
3558.600	V	45.41	-52.16	10.46	1.22	-42.92	-13.00	29.92
5337.900	H	44.40	-49.07	11.40	1.47	-39.14	-13.00	26.14
5337.900	V	48.67	-44.66	11.40	1.47	-34.73	-13.00	21.73

LTE Band 71(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)			
5MHz, QPSK, Frequency: 665.5 MHz								
584.89	H	20.59	-53.57	0.00	0.46	-54.03	-13.00	41.03
551.26	V	20.52	-51.14	0.00	0.48	-51.62	-13.00	38.62
1331.000	H	42.21	-60.82	8.03	0.76	-53.55	-13.00	40.55
1331.000	V	45.37	-57.99	8.03	0.76	-50.72	-13.00	37.72
1996.500	H	48.62	-53.54	9.10	0.89	-45.33	-13.00	32.33
1996.500	V	47.20	-54.34	9.10	0.89	-46.13	-13.00	33.13
2662.000	H	35.72	-64.24	9.66	1.06	-55.64	-13.00	42.64
2662.000	V	36.44	-63.44	9.66	1.06	-54.84	-13.00	41.84
5MHz, QPSK, Frequency: 680.5 MHz								
467.42	H	20.76	-55.73	0.00	0.42	-56.15	-13.00	43.15
568.91	V	20.78	-50.90	0.00	0.46	-51.36	-13.00	38.36
1361.000	H	42.33	-61.00	8.11	0.77	-53.66	-13.00	40.66
1361.000	V	43.89	-59.64	8.11	0.77	-52.30	-13.00	39.30
2041.500	H	51.71	-50.32	9.12	0.91	-42.11	-13.00	29.11
2041.500	V	49.07	-52.57	9.12	0.91	-44.36	-13.00	31.36
2722.000	H	38.16	-61.81	9.76	1.05	-53.10	-13.00	40.10
2722.000	V	36.41	-63.50	9.76	1.05	-54.79	-13.00	41.79
5MHz, QPSK, Frequency: 695.5 MHz								
537.73	H	20.61	-54.48	0.00	0.46	-54.94	-13.00	41.94
479.18	V	20.73	-51.68	0.00	0.41	-52.09	-13.00	39.09
1391.000	H	41.36	-62.26	8.19	0.72	-54.79	-13.00	41.79
1391.000	V	42.79	-60.91	8.19	0.72	-53.44	-13.00	40.44
2086.500	H	50.48	-51.43	9.15	0.91	-43.19	-13.00	30.19
2086.500	V	48.62	-53.17	9.15	0.91	-44.93	-13.00	31.93
2782.000	H	36.14	-63.80	9.85	1.05	-55.00	-13.00	42.00
2782.000	V	36.66	-63.17	9.85	1.05	-54.37	-13.00	41.37

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 CR230845886-EXP EUT EXTERNAL PHOTOGRAPHS and CR230845886-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230845886-00F-TSP TEST SETUP PHOTOGRAPHS.

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