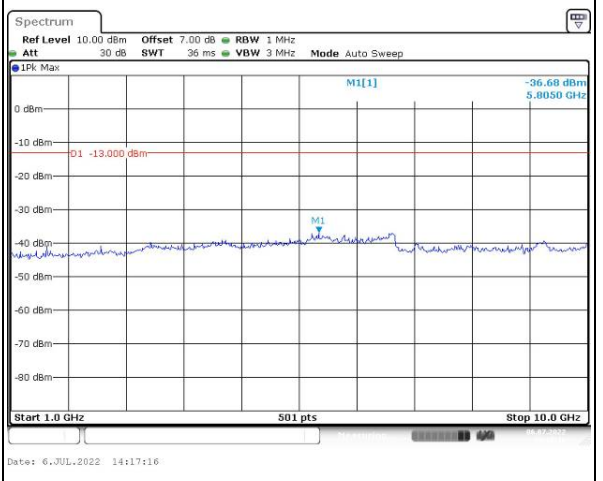
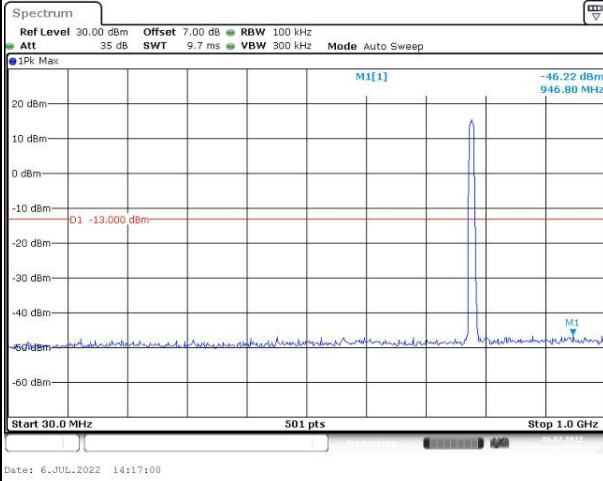


Spurious Emissions at Antenna Terminal

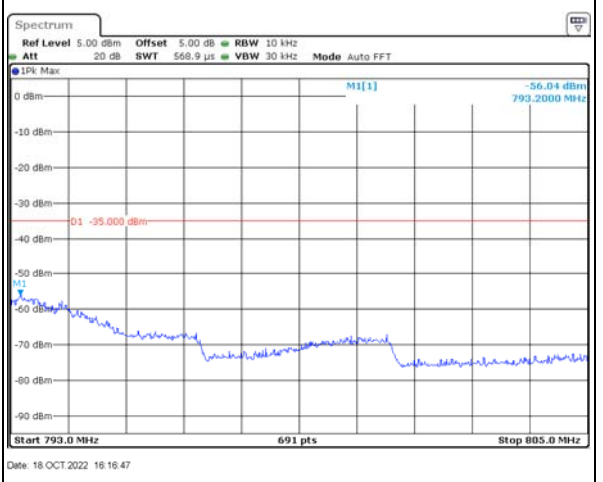
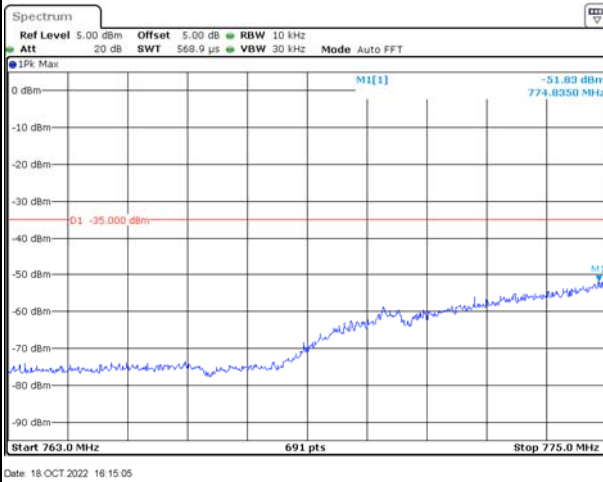
Channel

10MHz Bandwidth QPSK

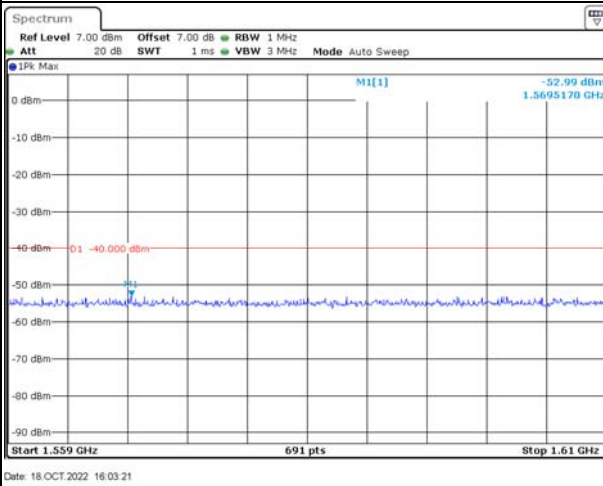
Middle



Middle



Middle



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz		
16QAM 5MHz		

4.8 Antenna Port Test Data and Results for LTE Band 17

Serial Number:	CR220050077-RF-S1	Test Date:	2022/7/5~2022/8/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ted Min	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~26.7	Relative Humidity: (%)	51~58	ATM Pressure: (kPa)	100.1~100.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2021-10-10	2022-10-09
R&S	Wideband Radio Communication Tester	CMW500	149218	2021-07-21	2022-07-20
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204006	Each time	N/A
Unknown	RF Cable	Unknown	RF Cable 004	Each time	N/A
HuiXunDa	DC Block	SMA-JK 18G	DCB181108042	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	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).

EUT Information@LTE Band 17▲:

Antenna Gain (dBi):	-2.61	Antenna Gain (dBd):	-4.76	Path Loss L _c (dB):	0.3
Operation Voltage(V _{DC}):					
Lowest:	6.66	Normal:	7.4	Highest:	8.14

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	706.5	710	713.5
10MHz	709	710	711

Test Data:**FCC§2.1046;§ 27.50(c) (10)****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	22.02	22.16	21.97	17.1	34.77
	RB1#13	22.06	22.13	22.05		
	RB1#24	22.08	22.11	22.12		
	RB15#0	21.96	22.1	22.09		
	RB15#10	21.94	21.99	21.96		
	RB25#0	21.56	21.61	21.65		
5MHz 16QAM	RB1#0	21.62	21.58	21.65	16.85	34.77
	RB1#13	21.61	21.86	21.73		
	RB1#24	21.87	21.91	21.84		
	RB15#0	21.5	21.62	21.76		
	RB15#10	21.51	21.58	21.66		
	RB25#0	21.25	21.34	21.33		
10MHz QPSK	RB1#0	22.05	22.11	22.03	17.25	34.77
	RB1#25	22.05	22.26	22.17		
	RB1#49	22.14	22.21	22.31		
	RB25#0	22.04	22.05	22.11		
	RB25#25	22.02	22	22.01		
	RB50#0	21.66	21.76	21.75		
10MHz 16QAM	RB1#0	21.61	21.69	21.65	16.81	34.77
	RB1#25	21.71	21.69	21.86		
	RB1#49	21.68	21.74	21.87		
	RB25#0	21.61	21.72	21.84		
	RB25#25	21.73	21.82	21.85		
	RB50#0	21.36	21.37	21.46		
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	
10MHz QPSK	RB1#0	3.08	3.13	3.09	13
	RB50#0	5.07	5.12	5.11	13
10MHz 16QAM	RB1#0	4.16	4.21	4.18	13
	RB50#0	6.23	6.26	6.27	13
Result:					Pass

FCC §2.1049, §27.53:Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.551	4.531	4.491	5.08	5.04	5
5MHz 16QAM	4.531	4.551	4.511	5.08	5.02	5.04
10MHz QPSK	8.982	8.942	8.942	9.8	9.68	9.64
10MHz 16QAM	8.982	8.982	8.902	9.6	9.72	9.68
Note: The test plots please refer to the Plots of Occupied Bandwidth						

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

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

Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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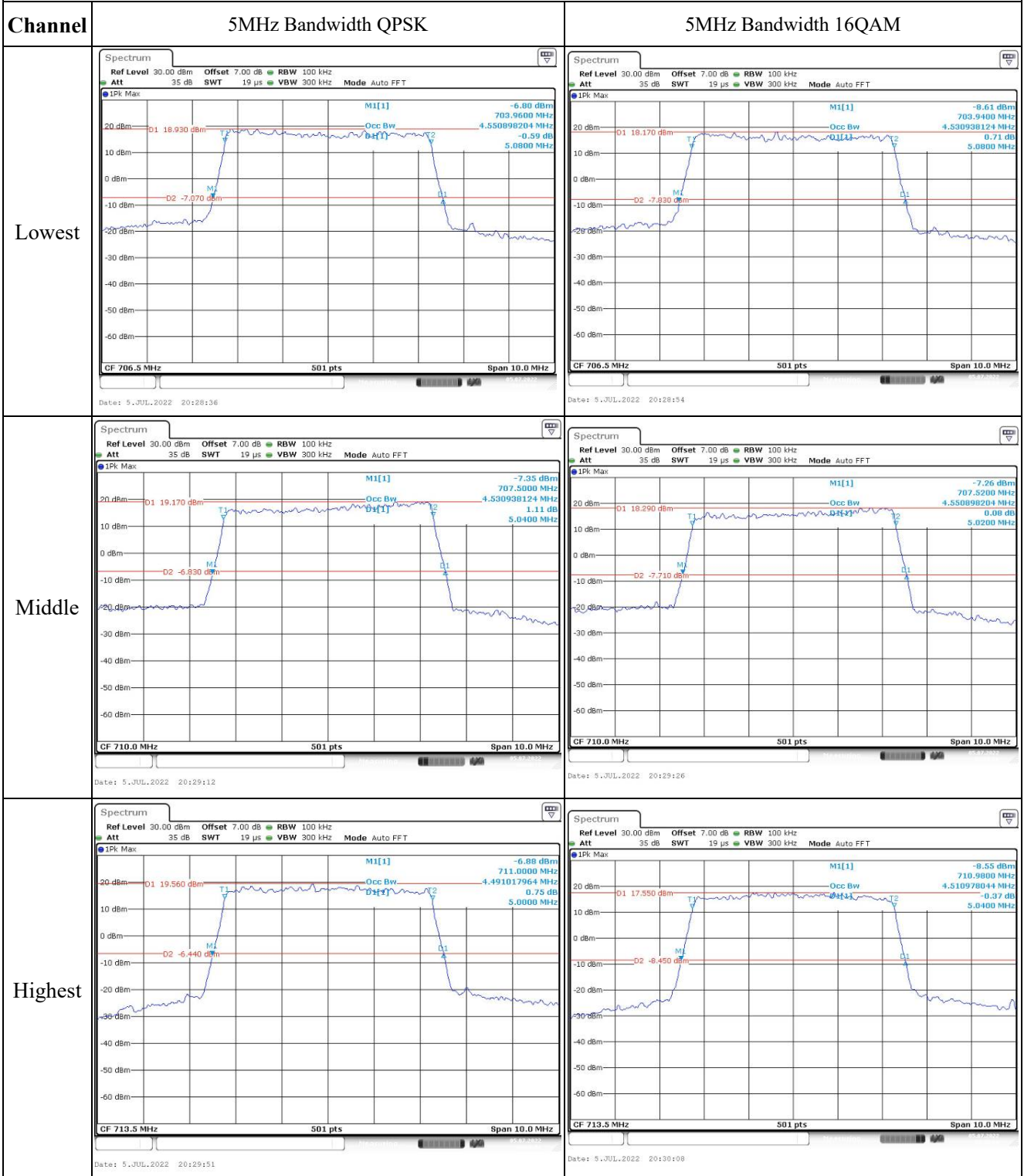
FCC §2.1055, §27.54: Frequency Stability

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{Dc})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.4	704.153	704.00	715.867	716.00
	-20	7.4	704.171	704.00	715.845	716.00
	-10	7.4	704.288	704.00	715.763	716.00
	0	7.4	704.268	704.00	715.762	716.00
	10	7.4	704.204	704.00	715.888	716.00
	20	7.4	704.264	704.00	715.895	716.00
	30	7.4	704.277	704.00	715.872	716.00
	40	7.4	704.293	704.00	715.912	716.00
Frequency Stability vs. Voltage	20	6.66	704.160	704.00	715.854	716.00
	20	8.14	704.193	704.00	715.873	716.00
					Result:	Pass

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{Dc})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.4	704.348	704.00	715.763	716.00
	-20	7.4	704.338	704.00	715.877	716.00
	-10	7.4	704.268	704.00	715.764	716.00
	0	7.4	704.181	704.00	715.924	716.00
	10	7.4	704.164	704.00	715.884	716.00
	20	7.4	704.298	704.00	715.872	716.00
	30	7.4	704.180	704.00	715.882	716.00
	40	7.4	704.338	704.00	715.790	716.00
Frequency Stability vs. Voltage	20	6.66	704.359	704.00	715.768	716.00
	20	8.14	704.166	704.00	715.870	716.00
					Result:	Pass

Test Plots:

Occupied Bandwidth



Occupied Bandwidth

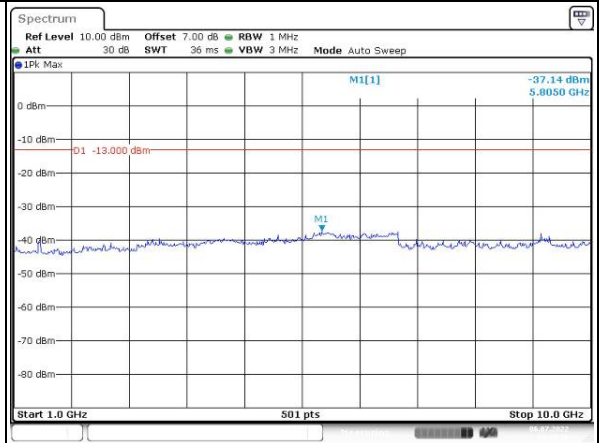
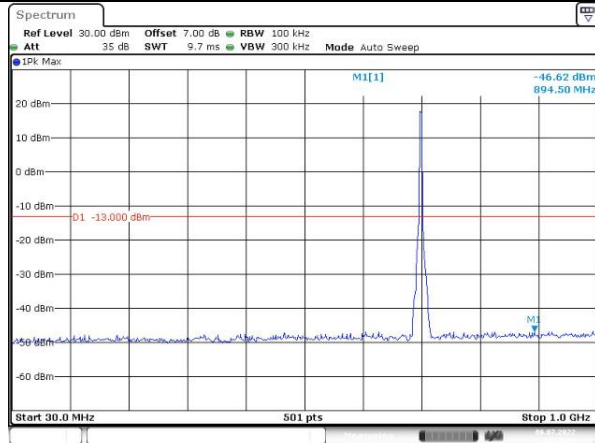
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>10MHz Bandwidth QPSK</p> <p>Ref Level 30.00 dBm Offset 7.00 dB RBW 100 kHz Att 35 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -7.80 dBm 704.1200 MHz Occ Bw 8.982035928 MHz D1[1] -1.04 dB 9.8000 MHz</p> <p>D2 -8.400 dBm</p> <p>O1 17.600 dBm</p> <p>CF 709.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 5.JUL.2022 20:30:37</p>	<p>10MHz Bandwidth 16QAM</p> <p>Ref Level 30.00 dBm Offset 7.00 dB RBW 100 kHz Att 35 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -7.36 dBm 704.2400 MHz Occ Bw 8.982035928 MHz D1[1] -0.10 dB 9.6000 MHz</p> <p>D2 -7.540 dBm</p> <p>O1 18.460 dBm</p> <p>CF 709.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 5.JUL.2022 20:31:05</p>
Middle	<p>10MHz Bandwidth QPSK</p> <p>Ref Level 30.00 dBm Offset 7.00 dB RBW 100 kHz Att 35 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -8.64 dBm 705.2000 MHz Occ Bw 8.942115760 MHz D1[1] -0.45 dB 9.6800 MHz</p> <p>D2 -8.530 dBm</p> <p>O1 17.470 dBm</p> <p>CF 710.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 5.JUL.2022 20:31:31</p>	<p>10MHz Bandwidth 16QAM</p> <p>Ref Level 30.00 dBm Offset 7.00 dB RBW 100 kHz Att 35 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -9.69 dBm 705.1600 MHz Occ Bw 8.982035928 MHz D1[1] -0.29 dB 9.7200 MHz</p> <p>D2 -10.390 dBm</p> <p>O1 15.610 dBm</p> <p>CF 710.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 5.JUL.2022 20:31:53</p>
Highest	<p>10MHz Bandwidth QPSK</p> <p>Ref Level 30.00 dBm Offset 7.00 dB RBW 100 kHz Att 35 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -8.60 dBm 706.2000 MHz Occ Bw 8.942115760 MHz D1[1] -0.18 dB 9.6400 MHz</p> <p>D2 -8.990 dBm</p> <p>O1 17.010 dBm</p> <p>CF 711.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 5.JUL.2022 20:32:15</p>	<p>10MHz Bandwidth 16QAM</p> <p>Ref Level 30.00 dBm Offset 7.00 dB RBW 100 kHz Att 35 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -9.91 dBm 706.2000 MHz Occ Bw 8.982195609 MHz D1[1] -0.67 dB 9.6800 MHz</p> <p>D2 -10.000 dBm</p> <p>O1 16.000 dBm</p> <p>CF 711.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 5.JUL.2022 20:32:37</p>

Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

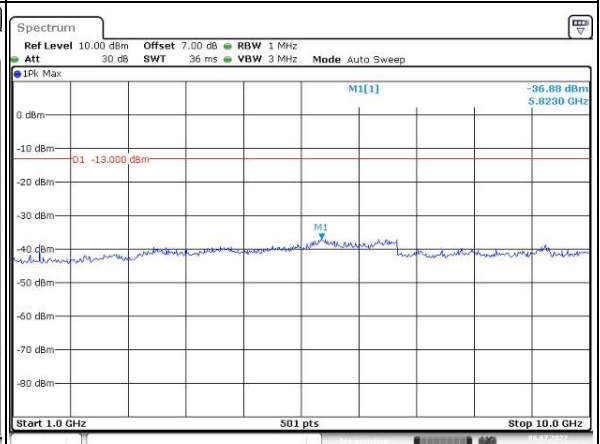
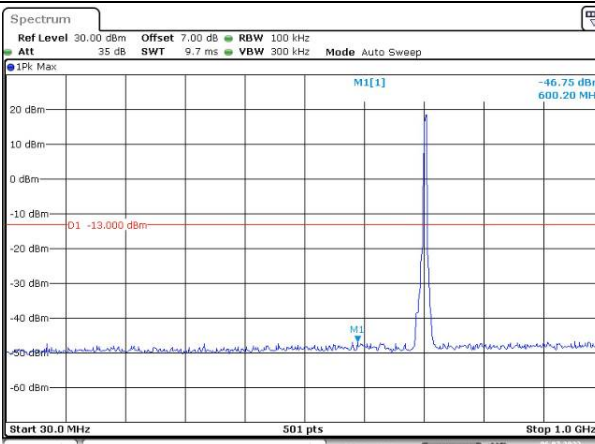
Lowest



Date: 6.JUL.2022 14:17:54

Date: 6.JUL.2022 14:18:16

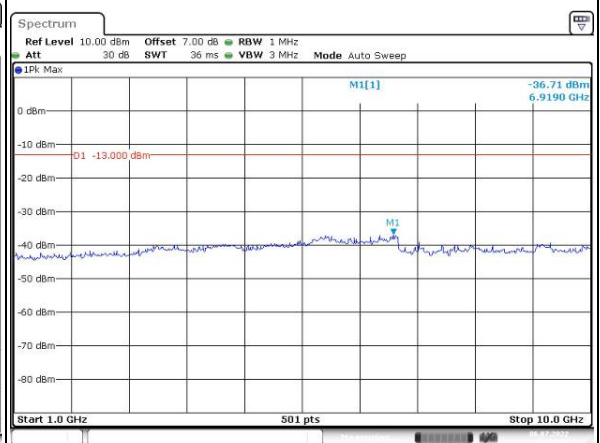
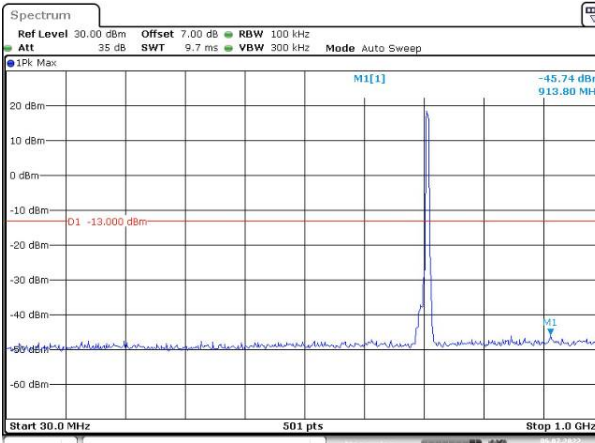
Middle



Date: 6.JUL.2022 14:18:45

Date: 6.JUL.2022 14:19:11

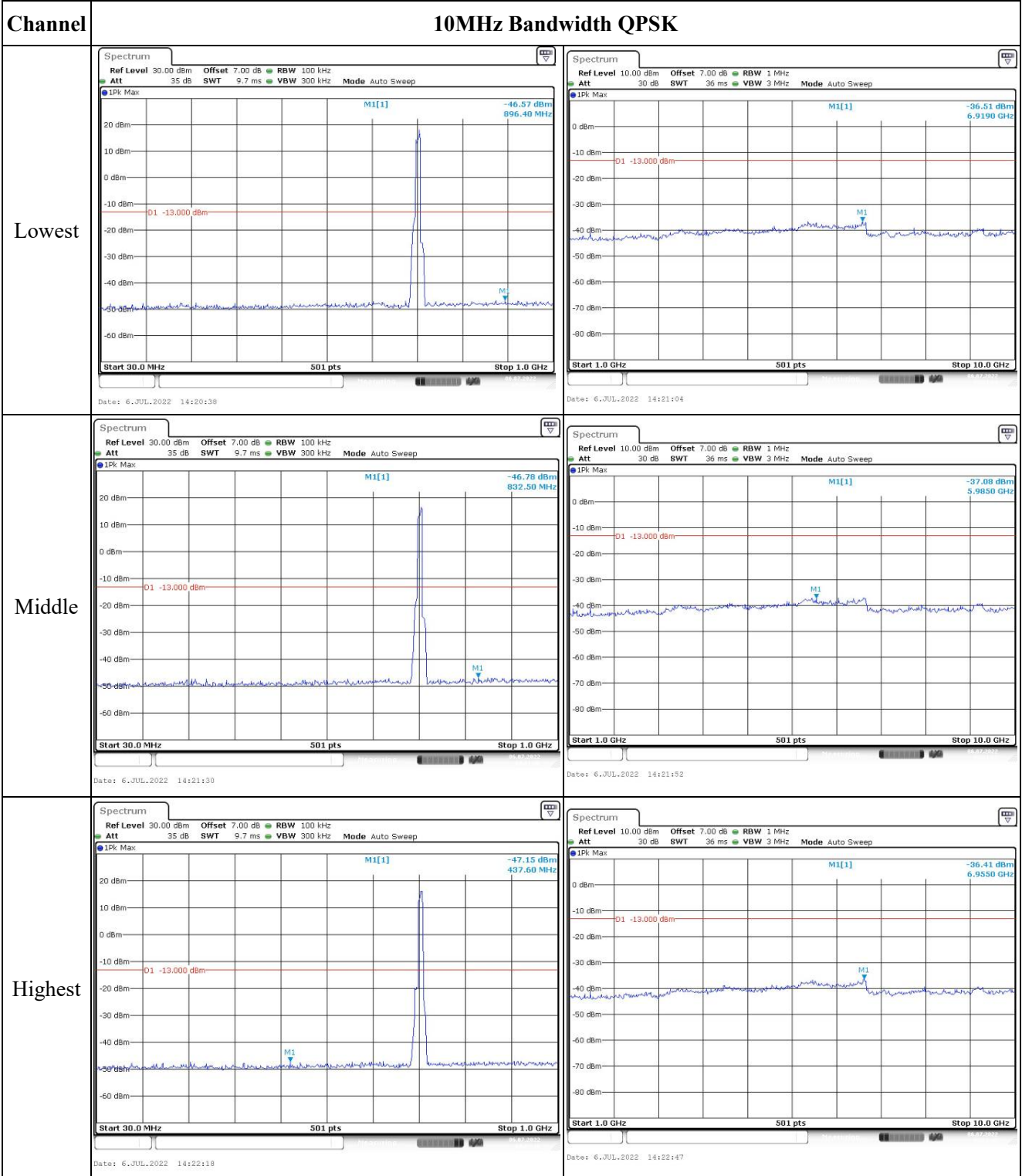
Highest



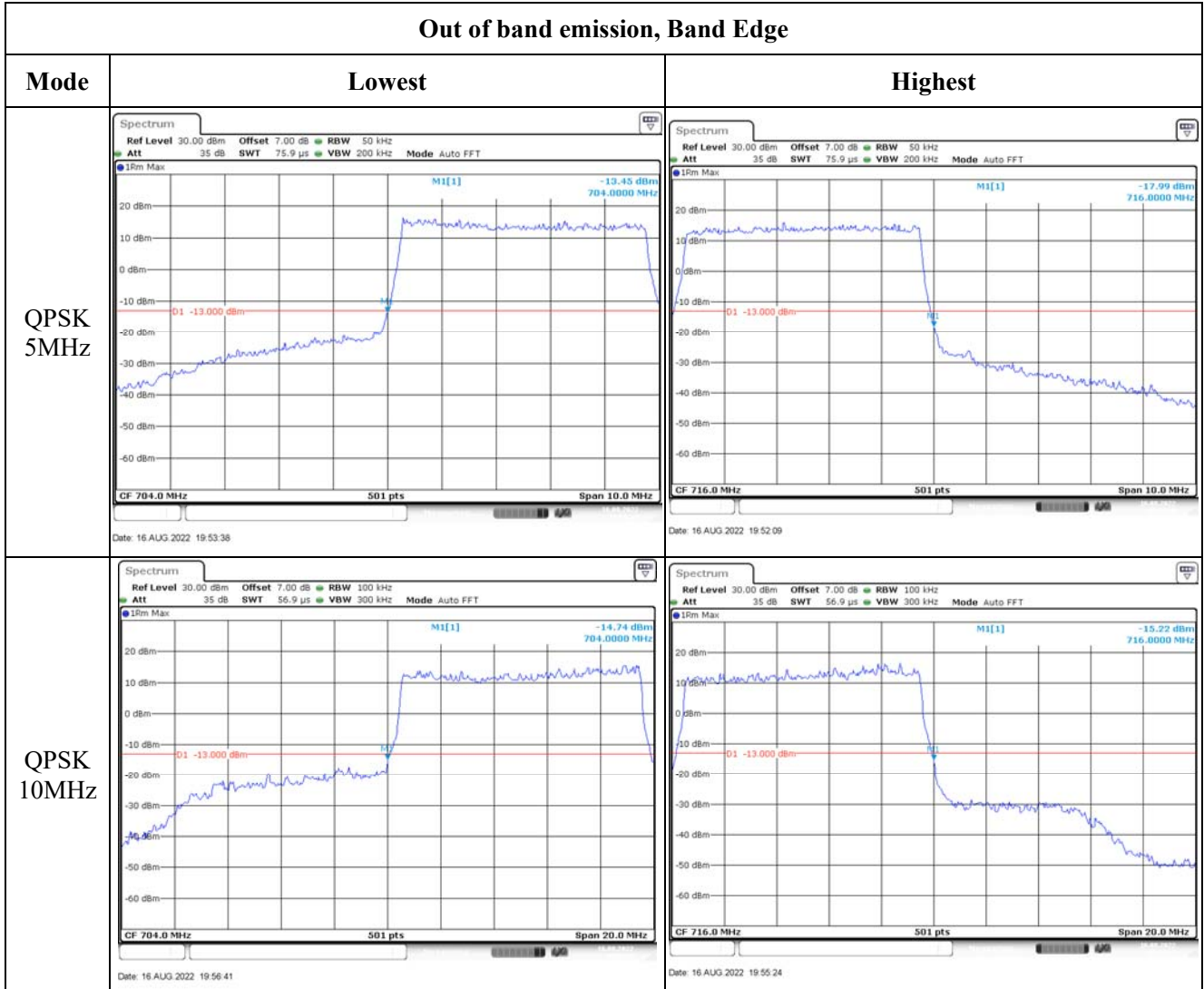
Date: 6.JUL.2022 14:19:40

Date: 6.JUL.2022 14:19:59

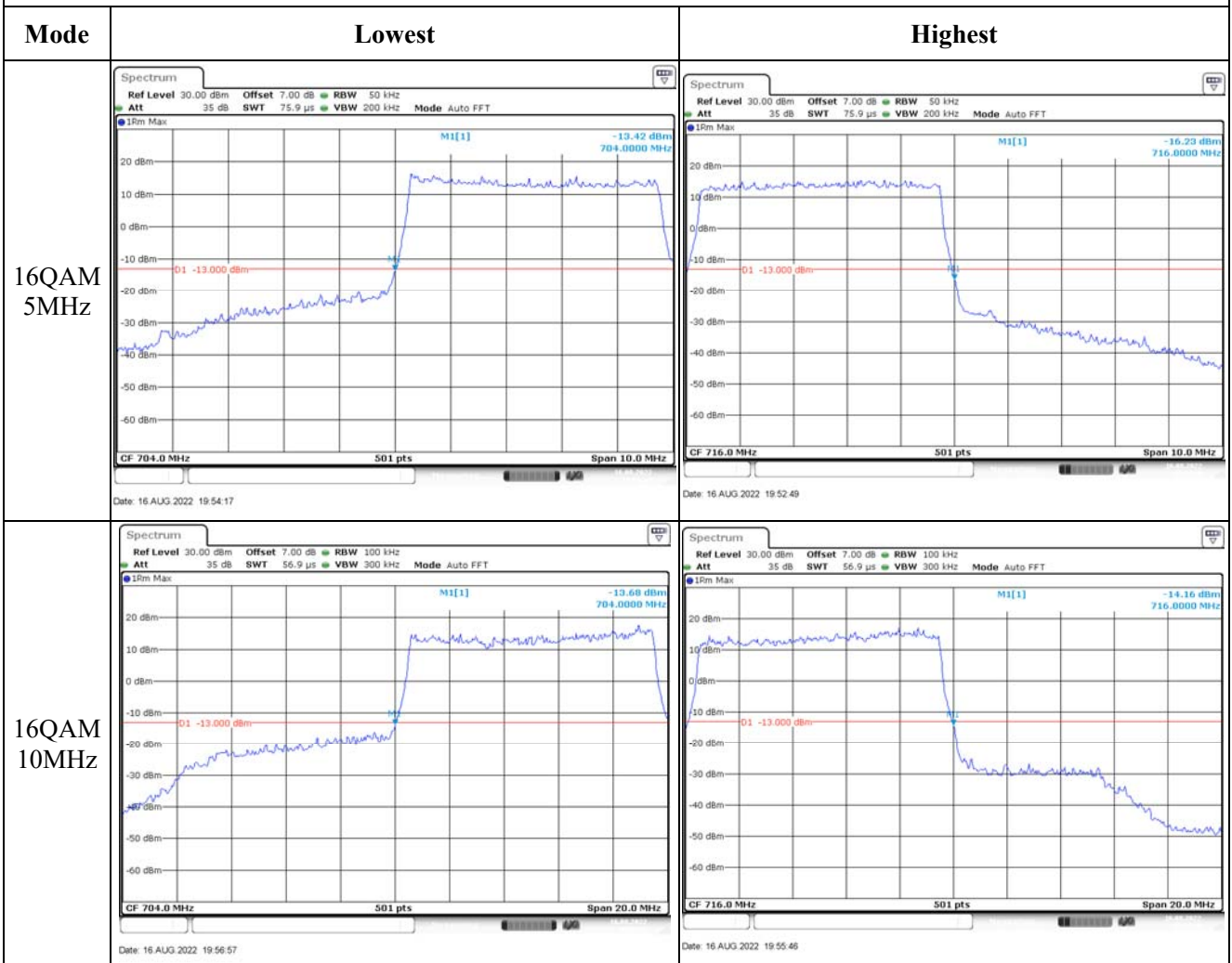
Spurious Emissions at Antenna Terminal



Out of band emission, Band Edge



Out of band emission, Band Edge



4.9 Radiated Spurious Emissions

Serial Number:	CR22050077-RF-S1	Test Date:	Below 1G: 2022-08-07 Above 1G: 2022-07-29~2022-07-31
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Gary Ling, Mark Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.7~28.5	Relative Humidity: (%)	49~61	ATM Pressure: (kPa)	100.1~100.6
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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	2022-07-15	2023-07-14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022-07-17	2023-07-16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022-07-17	2023-07-16
Sonoma	Amplifier	310N	186165	2022-07-17	2023-07-16
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022-07-17	2023-07-16
Agilent	Signal Generator	E8247C	MY43321352	2022-04-01	2023-03-31
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
R&S	Spectrum Analyzer	FSV40	101591	2022-07-15	2023-07-14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021-10-18	2024-10-17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022-07-17	2023-07-16
Agilent	Signal Generator	E8247C	MY43321352	2022-04-01	2023-03-31
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2024-02-04
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021-02-05	2024-02-04
AH	Preamplifier	PAM-1840VH	190	2021-11-19	2022-11-18
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2021-08-08	2022-08-07

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

Test Data:

Please refer to the below table and plots.

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

Cellular Band (PART 22H)

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								
87.11	H	44.30	-67.79	0.00	0.17	-67.96	-13.00	54.96
84.70	V	48.88	-60.05	0.00	0.17	-60.22	-13.00	47.22
1652.80	H	37.56	-66.77	8.68	0.81	-58.90	-13.00	45.90
1652.80	V	37.28	-67.13	8.68	0.81	-59.26	-13.00	46.26
2479.20	H	37.05	-63.71	9.39	1.01	-55.33	-13.00	42.33
2479.20	V	36.91	-63.82	9.39	1.01	-55.44	-13.00	42.44
3305.60	H	36.21	-60.52	10.32	1.15	-51.35	-13.00	38.35
3305.60	V	35.26	-61.24	10.32	1.15	-52.07	-13.00	39.07
WCDMA Band 5 Frequency:836.6MHz								
89.46	H	44.68	-68.17	0.00	0.18	-68.35	-13.00	55.35
85.30	V	49.33	-59.65	0.00	0.17	-59.82	-13.00	46.82
1673.20	H	37.69	-66.62	8.71	0.85	-58.76	-13.00	45.76
1673.20	V	37.31	-67.10	8.71	0.85	-59.24	-13.00	46.24
2509.80	H	36.58	-64.03	9.42	1.01	-55.62	-13.00	42.62
2509.80	V	36.15	-64.47	9.42	1.01	-56.06	-13.00	43.06
3346.40	H	35.89	-61.28	10.34	1.16	-52.10	-13.00	39.10
3346.40	V	36.32	-60.71	10.34	1.16	-51.53	-13.00	38.53
WCDMA Band 5 Frequency:846.6MHz								
88.18	H	44.17	-68.27	0.00	0.17	-68.44	-13.00	55.44
85.90	V	49.62	-59.40	0.00	0.17	-59.57	-13.00	46.57
1693.20	H	38.12	-66.18	8.73	0.89	-58.34	-13.00	45.34
1693.20	V	37.58	-66.84	8.73	0.89	-59.00	-13.00	46.00
2539.80	H	36.89	-63.49	9.46	1.01	-55.04	-13.00	42.04
2539.80	V	37.11	-63.23	9.46	1.01	-54.78	-13.00	41.78
3386.40	H	36.21	-61.38	10.35	1.18	-52.21	-13.00	39.21
3386.40	V	36.12	-61.42	10.35	1.18	-52.25	-13.00	39.25

PCS Band (PART 24E)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
85.60	H	43.92	-67.68	0.00	0.17	-67.85	-13.00	54.85
84.65	V	48.96	-59.97	0.00	0.17	-60.14	-13.00	47.14
3704.80	H	35.60	-61.66	10.60	1.25	-52.31	-13.00	39.31
3704.80	V	34.96	-62.27	10.60	1.25	-52.92	-13.00	39.92
5557.20	H	35.40	-57.88	11.43	1.49	-47.94	-13.00	34.94
5557.20	V	35.11	-58.02	11.43	1.49	-48.08	-13.00	35.08
WCDMA Band II, Frequency:1880 MHz								
89.37	H	44.66	-68.17	0.00	0.18	-68.35	-13.00	55.35
84.31	V	49.31	-59.59	0.00	0.17	-59.76	-13.00	46.76
3760.00	H	35.73	-60.68	10.66	1.24	-51.26	-13.00	38.26
3760.00	V	35.56	-60.73	10.66	1.24	-51.31	-13.00	38.31
5640.00	H	35.87	-57.58	11.33	1.54	-47.79	-13.00	34.79
5640.00	V	35.11	-58.22	11.33	1.54	-48.43	-13.00	35.43
WCDMA Band II, Frequency:1907.6MHz								
89.59	H	48.34	-64.56	0.00	0.18	-64.74	-13.00	51.74
84.66	V	44.26	-64.67	0.00	0.17	-64.84	-13.00	51.84
3815.20	H	35.37	-60.48	10.72	1.29	-51.05	-13.00	38.05
3815.20	V	35.42	-60.27	10.72	1.29	-50.84	-13.00	37.84
5722.80	H	35.57	-57.92	11.23	1.58	-48.27	-13.00	35.27
5722.80	V	35.26	-58.09	11.23	1.58	-48.44	-13.00	35.44

LTE Bands:
(The Worst modulation and bandwidth was below)

LTE Band 2 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1850.7 MHz								
215.27	H	41.62	-70.97	0.00	0.27	-71.24	-13.00	58.24
86.20	V	43.35	-65.70	0.00	0.17	-65.87	-13.00	52.87
3701.40	H	34.25	-63.06	10.60	1.25	-53.71	-13.00	40.71
3701.40	V	35.68	-61.61	10.60	1.25	-52.26	-13.00	39.26
5552.10	H	35.27	-58.00	11.44	1.49	-48.05	-13.00	35.05
5552.10	V	34.61	-58.49	11.44	1.49	-48.54	-13.00	35.54
QPSK, Frequency: 1880 MHz								
213.76	H	40.89	-69.92	0.00	0.27	-70.19	-13.00	57.19
79.80	V	42.70	-65.76	-0.10	0.16	-66.02	-13.00	53.02
3760.00	H	34.83	-61.58	10.66	1.24	-52.16	-13.00	39.16
3760.00	V	35.19	-61.10	10.66	1.24	-51.68	-13.00	38.68
5640.00	H	34.10	-59.35	11.33	1.54	-49.56	-13.00	36.56
5640.00	V	34.54	-58.79	11.33	1.54	-49.00	-13.00	36.00
QPSK, Frequency: 1909.3 MHz								
213.76	H	41.75	-70.87	0.00	0.27	-71.14	-13.00	58.14
90.54	V	43.44	-65.77	0.00	0.18	-65.95	-13.00	52.95
3818.60	H	34.98	-60.88	10.72	1.29	-51.45	-13.00	38.45
3818.60	V	34.72	-60.99	10.72	1.29	-51.56	-13.00	38.56
5727.90	H	35.17	-58.31	11.23	1.59	-48.67	-13.00	35.67
5727.90	V	34.01	-59.35	11.23	1.59	-49.71	-13.00	36.71

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)			
QPSK, Frequency: 1710.7 MHz								
90.54	H	46.09	-66.90	0.00	0.18	-67.08	-13.00	54.08
89.59	V	48.51	-60.79	0.00	0.18	-60.97	-13.00	47.97
3421.40	H	35.62	-62.14	10.37	1.17	-52.94	-13.00	39.94
3421.40	V	35.81	-61.92	10.37	1.17	-52.72	-13.00	39.72
5132.10	H	35.91	-57.66	11.28	1.47	-47.85	-13.00	34.85
5132.10	V	35.16	-58.30	11.28	1.47	-48.49	-13.00	35.49
QPSK, Frequency: 1732.5 MHz								
90.86	H	46.30	-66.67	0.00	0.18	-66.85	-13.00	53.85
85.60	V	50.32	-58.68	0.00	0.17	-58.85	-13.00	45.85
3465.00	H	35.74	-62.07	10.39	1.15	-52.83	-13.00	39.83
3465.00	V	35.84	-61.93	10.39	1.15	-52.69	-13.00	39.69
5197.50	H	35.45	-58.68	11.32	1.44	-48.80	-13.00	35.80
5197.50	V	34.87	-59.11	11.32	1.44	-49.23	-13.00	36.23
QPSK, Frequency: 1752.6MHz								
89.69	H	46.85	-66.08	0.00	0.18	-66.26	-13.00	53.26
85.36	V	49.78	-59.20	0.00	0.17	-59.37	-13.00	46.37
3505.20	H	35.91	-61.92	10.41	1.18	-52.69	-13.00	39.69
3505.20	V	35.96	-61.81	10.41	1.18	-52.58	-13.00	39.58
5257.80	H	35.84	-57.89	11.35	1.47	-48.01	-13.00	35.01
5257.80	V	35.11	-58.40	11.35	1.47	-48.52	-13.00	35.52

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
88.65	H	44.63	-67.96	0.00	0.18	-68.14	-13.00	55.14
85.90	V	49.13	-59.89	0.00	0.17	-60.06	-13.00	47.06
1649.40	H	43.35	-60.98	8.68	0.80	-53.10	-13.00	40.10
1649.40	V	37.37	-67.04	8.68	0.80	-59.16	-13.00	46.16
2474.10	H	35.66	-65.12	9.38	1.00	-56.74	-13.00	43.74
2474.10	V	37.09	-63.64	9.38	1.00	-55.26	-13.00	42.26
3298.80	H	34.49	-62.19	10.32	1.15	-53.02	-13.00	40.02
3298.80	V	34.68	-61.76	10.32	1.15	-52.59	-13.00	39.59
QPSK, Frequency: 836.5 MHz								
89.59	H	44.58	-68.32	0.00	0.18	-68.50	-13.00	55.50
85.90	V	48.75	-60.27	0.00	0.17	-60.44	-13.00	47.44
1673.00	H	38.45	-65.86	8.71	0.85	-58.00	-13.00	45.00
1673.00	V	37.47	-66.94	8.71	0.85	-59.08	-13.00	46.08
2509.50	H	37.67	-62.94	9.42	1.01	-54.53	-13.00	41.53
2509.50	V	37.11	-63.51	9.42	1.01	-55.10	-13.00	42.10
3346.00	H	35.38	-61.78	10.34	1.16	-52.60	-13.00	39.60
3346.00	V	35.38	-61.64	10.34	1.16	-52.46	-13.00	39.46
QPSK, Frequency: 848.3 MHz								
89.48	H	44.61	-68.25	0.00	0.18	-68.43	-13.00	55.43
84.69	V	49.78	-59.15	0.00	0.17	-59.32	-13.00	46.32
1696.60	H	41.28	-63.01	8.74	0.89	-55.16	-13.00	42.16
1696.60	V	43.06	-61.36	8.74	0.89	-53.51	-13.00	40.51
2544.90	H	39.31	-61.03	9.47	1.01	-52.57	-13.00	39.57
2544.90	V	37.44	-62.86	9.47	1.01	-54.40	-13.00	41.40
3393.20	H	35.73	-61.94	10.36	1.19	-52.77	-13.00	39.77
3393.20	V	34.43	-63.20	10.36	1.19	-54.03	-13.00	41.03

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)			
QPSK, Frequency: 699.7 MHz								
83.82	H	42.17	-68.85	0.00	0.17	-69.02	-13.00	56.02
84.11	V	46.51	-62.38	0.00	0.17	-62.55	-13.00	49.55
1399.40	H	40.25	-63.45	8.22	0.71	-55.94	-13.00	42.94
1399.40	V	41.85	-61.90	8.22	0.71	-54.39	-13.00	41.39
2099.10	H	34.68	-67.20	9.16	0.91	-58.95	-13.00	45.95
2099.10	V	35.41	-66.42	9.16	0.91	-58.17	-13.00	45.17
2798.80	H	35.22	-64.71	9.88	1.04	-55.87	-13.00	42.87
2798.80	V	35.01	-64.79	9.88	1.04	-55.95	-13.00	42.95
QPSK, Frequency:707.5 MHz								
90.54	H	42.50	-70.49	0.00	0.18	-70.67	-13.00	57.67
83.23	V	46.23	-62.59	0.00	0.17	-62.76	-13.00	49.76
1415.00	H	38.56	-65.11	8.26	0.72	-57.57	-13.00	44.57
1415.00	V	43.89	-59.83	8.26	0.72	-52.29	-13.00	39.29
2122.50	H	35.71	-66.28	9.17	0.92	-58.03	-13.00	45.03
2122.50	V	35.51	-66.46	9.17	0.92	-58.21	-13.00	45.21
2830.00	H	34.85	-64.95	9.93	1.06	-56.08	-13.00	43.08
2830.00	V	35.03	-64.70	9.93	1.06	-55.83	-13.00	42.83
QPSK, Frequency: 715.3 MHz								
85.60	H	43.17	-68.43	0.00	0.17	-68.60	-13.00	55.60
83.82	V	47.58	-61.29	0.00	0.17	-61.46	-13.00	48.46
1430.60	H	39.68	-63.95	8.31	0.73	-56.37	-13.00	43.37
1430.60	V	41.47	-62.22	8.31	0.73	-54.64	-13.00	41.64
2145.90	H	34.58	-67.52	9.19	0.93	-59.26	-13.00	46.26
2145.90	V	35.33	-66.78	9.19	0.93	-58.52	-13.00	45.52
2861.20	H	35.12	-64.53	9.98	1.07	-55.62	-13.00	42.62
2861.20	V	35.04	-64.63	9.98	1.07	-55.72	-13.00	42.72

LTE Band 13 (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 779.5 MHz								
85.30	H	44.48	-67.02	0.00	0.17	-67.19	-13.00	54.19
85.00	V	49.74	-59.22	0.00	0.17	-59.39	-13.00	46.39
1559.00	H	37.25	-66.74	8.57	0.80	-58.97	-40.00	18.97
1559.00	V	36.09	-67.96	8.57	0.80	-60.19	-40.00	20.19
2338.50	H	35.21	-66.38	9.30	0.97	-58.05	-13.00	45.05
2338.50	V	36.34	-65.02	9.30	0.97	-56.69	-13.00	43.69
3118.00	H	35.07	-62.42	10.25	1.13	-53.30	-13.00	40.30
3118.00	V	34.98	-62.37	10.25	1.13	-53.25	-13.00	40.25
QPSK, Frequency: 782 MHz								
85.30	H	45.37	-66.13	0.00	0.17	-66.30	-13.00	53.30
85.90	V	47.94	-61.08	0.00	0.17	-61.25	-13.00	48.25
1564.00	H	36.56	-67.48	8.58	0.80	-59.70	-40.00	19.70
1564.00	V	35.41	-68.68	8.58	0.80	-60.90	-40.00	20.90
2346.00	H	35.12	-66.40	9.31	0.97	-58.06	-13.00	45.06
2346.00	V	35.23	-66.06	9.31	0.97	-57.72	-13.00	44.72
3128.00	H	25.89	-71.55	10.25	1.13	-62.43	-13.00	49.43
3128.00	V	35.04	-62.25	10.25	1.13	-53.13	-13.00	40.13
QPSK, Frequency: 784.5 MHz								
85.30	H	45.26	-66.24	0.00	0.17	-66.41	-13.00	53.41
85.34	V	48.67	-60.31	0.00	0.17	-60.48	-13.00	47.48
1569.00	H	36.05	-68.03	8.58	0.81	-60.26	-40.00	20.26
1569.00	V	35.39	-68.74	8.58	0.81	-60.97	-40.00	20.97
2353.50	H	35.26	-66.19	9.31	0.97	-57.85	-13.00	44.85
2353.50	V	35.50	-65.72	9.31	0.97	-57.38	-13.00	44.38
3138.00	H	34.70	-62.70	10.26	1.14	-53.58	-13.00	40.58
3138.00	V	34.89	-62.34	10.26	1.14	-53.22	-13.00	40.22

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)			
QPSK, Frequency: 706.5 MHz								
91.50	H	43.57	-69.36	0.00	0.18	-69.54	-13.00	56.54
84.70	V	47.83	-61.10	0.00	0.17	-61.27	-13.00	48.27
1413.00	H	39.52	-64.15	8.26	0.72	-56.61	-13.00	43.61
1413.00	V	36.11	-67.61	8.26	0.72	-60.07	-13.00	47.07
2119.50	H	35.99	-65.98	9.17	0.92	-57.73	-13.00	44.73
2119.50	V	36.01	-65.94	9.17	0.92	-57.69	-13.00	44.69
2826.00	H	35.63	-64.18	9.92	1.06	-55.32	-13.00	42.32
2826.00	V	35.59	-64.15	9.92	1.06	-55.29	-13.00	42.29
QPSK, Frequency: 710 MHz								
92.46	H	43.25	-69.62	0.00	0.18	-69.80	-13.00	56.80
85.30	V	47.96	-61.02	0.00	0.17	-61.19	-13.00	48.19
1420.00	H	36.44	-67.22	8.28	0.73	-59.67	-13.00	46.67
1420.00	V	35.58	-68.13	8.28	0.73	-60.58	-13.00	47.58
2130.00	H	35.44	-66.58	9.18	0.92	-58.32	-13.00	45.32
2130.00	V	34.17	-67.84	9.18	0.92	-59.58	-13.00	46.58
2840.00	H	36.75	-63.00	9.94	1.06	-54.12	-13.00	41.12
2840.00	V	35.69	-64.02	9.94	1.06	-55.14	-13.00	42.14
QPSK, Frequency: 713.5 MHz								
85.60	H	43.88	-67.72	0.00	0.17	-67.89	-13.00	54.89
85.00	V	44.02	-64.94	0.00	0.17	-65.11	-13.00	52.11
1427.00	H	38.49	-65.15	8.30	0.73	-57.58	-13.00	44.58
1427.00	V	36.21	-67.48	8.30	0.73	-59.91	-13.00	46.91
2140.50	H	36.02	-66.05	9.18	0.93	-57.80	-13.00	44.80
2140.50	V	36.12	-65.96	9.18	0.93	-57.71	-13.00	44.71
2854.00	H	35.87	-63.82	9.97	1.07	-54.92	-13.00	41.92
2854.00	V	35.91	-63.77	9.97	1.07	-54.87	-13.00	41.87

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

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