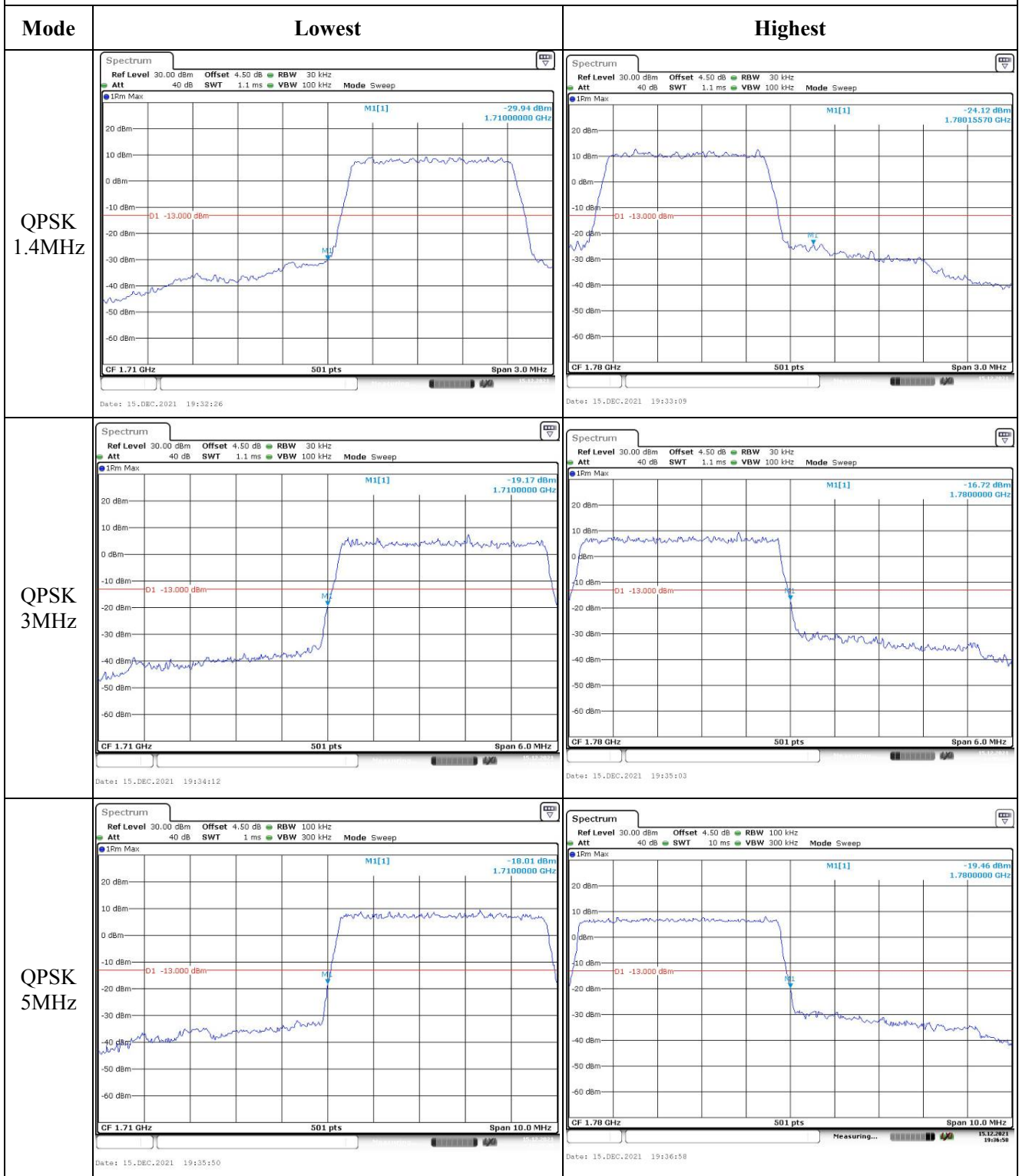


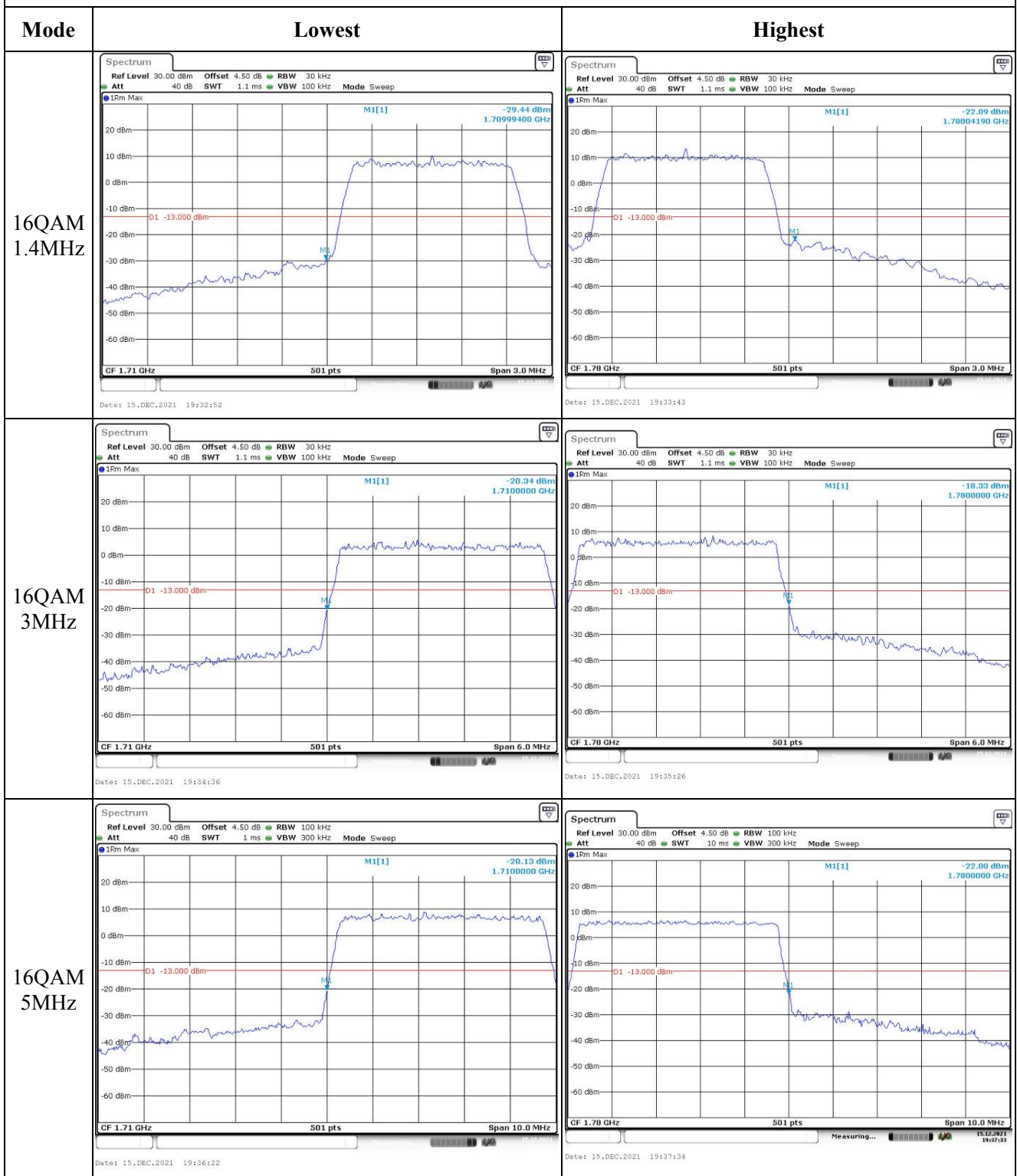
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz		
QPSK 15MHz		
QPSK 20MHz		

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

**4.13 Radiated Spurious Emissions**

Serial Number:	CR21110023-RF-S1	Test Date:	2021-11-25
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Great Qiao, Tommy Luo	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	19.9~21.7	Relative Humidity: (%)	52~55	ATM Pressure: (kPa)	101.4
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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	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Agilent	Signal Generator	E8247C	MY43321350	2021-04-25	2022-04-24
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2024-02-04
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
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
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09
AH	Preamplifier	PAM-1840VH	190	2021-11-20	2022-11-19
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021-10-18	2023-10-17
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021-02-05	2024-02-04
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Mini Circuits	High Pass Filter	VHF-6010+	31119	2021-08-08	2022-08-07
Mini Circuits	High Pass Filter	VHF-3100+	31251	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, the worst orientation was photographed and it's data was recorded.

**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								
1648.40	H	48.91	-55.42	8.68	0.80	-47.54	-13.00	34.54
1648.40	V	49.61	-54.80	8.68	0.80	-46.92	-13.00	33.92
2472.60	H	49.47	-51.31	9.38	1.00	-42.93	-13.00	29.93
2472.60	V	51.23	-49.50	9.38	1.00	-41.12	-13.00	28.12
3296.80	H	42.63	-54.05	10.32	1.15	-44.88	-13.00	31.88
3296.80	V	45.47	-50.97	10.32	1.15	-41.80	-13.00	28.80
4121.00	H	44.18	-51.82	10.83	1.27	-42.26	-13.00	29.26
4121.00	V	45.75	-50.22	10.83	1.27	-40.66	-13.00	27.66
213.70	H	46.76	-65.86	0.00	0.27	-66.13	-13.00	53.13
64.40	V	55.74	-48.77	-7.97	0.14	-56.88	-13.00	43.88
GSM 850 Frequency:836.6MHz								
1673.20	H	46.92	-57.39	8.71	0.85	-49.53	-13.00	36.53
1673.20	V	49.97	-54.44	8.71	0.85	-46.58	-13.00	33.58
2509.80	H	53.14	-47.47	9.42	1.01	-39.06	-13.00	26.06
2509.80	V	55.03	-45.59	9.42	1.01	-37.18	-13.00	24.18
3346.40	H	43.96	-53.21	10.34	1.16	-44.03	-13.00	31.03
3346.40	V	46.58	-50.45	10.34	1.16	-41.27	-13.00	28.27
4183.00	H	43.65	-52.30	10.79	1.32	-42.83	-13.00	29.83
4183.00	V	45.25	-50.67	10.79	1.32	-41.20	-13.00	28.20
186.00	H	45.40	-67.21	0.00	0.26	-67.47	-13.00	54.47
65.80	V	56.69	-47.35	-7.23	0.15	-54.73	-13.00	41.73
GSM 850 Frequency:848.8MHz								
1697.60	H	49.19	-55.10	8.74	0.90	-47.26	-13.00	34.26
1697.60	V	56.37	-48.05	8.74	0.90	-40.21	-13.00	27.21
2546.40	H	49.73	-50.60	9.47	1.01	-42.14	-13.00	29.14
2546.40	V	53.71	-46.57	9.47	1.01	-38.11	-13.00	25.11
3395.20	H	42.84	-54.85	10.36	1.19	-45.68	-13.00	32.68
3395.20	V	47.25	-50.41	10.36	1.19	-41.24	-13.00	28.24
4244.00	H	42.35	-53.74	10.75	1.30	-44.29	-13.00	31.29
4244.00	V	46.35	-49.67	10.75	1.30	-40.22	-13.00	27.22
189.60	H	46.20	-66.48	0.00	0.26	-66.74	-13.00	53.74
51.80	V	55.92	-46.17	-14.07	0.13	-60.37	-13.00	47.37



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								
1652.80	H	35.75	-68.58	8.68	0.81	-60.71	-13.00	47.71
1652.80	V	36.29	-68.12	8.68	0.81	-60.25	-13.00	47.25
2479.20	H	34.35	-66.41	9.39	1.01	-58.03	-13.00	45.03
2479.20	V	35.06	-65.67	9.39	1.01	-57.29	-13.00	44.29
3305.60	H	35.98	-60.75	10.32	1.15	-51.58	-13.00	38.58
3305.60	V	36.35	-60.15	10.32	1.15	-50.98	-13.00	37.98
287.60	H	31.89	-79.12	0.00	0.33	-79.45	-13.00	66.45
527.60	V	46.65	-56.32	0.00	0.44	-56.76	-13.00	43.76
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	35.94	-68.37	8.71	0.85	-60.51	-13.00	47.51
1673.20	V	36.35	-68.06	8.71	0.85	-60.20	-13.00	47.20
2509.80	H	35.36	-65.25	9.42	1.01	-56.84	-13.00	43.84
2509.80	V	35.29	-65.33	9.42	1.01	-56.92	-13.00	43.92
3346.40	H	35.66	-61.51	10.34	1.16	-52.33	-13.00	39.33
3346.40	V	35.47	-61.56	10.34	1.16	-52.38	-13.00	39.38
179.50	H	33.87	-78.60	0.00	0.25	-78.85	-13.00	65.85
479.90	V	42.04	-61.36	0.00	0.41	-61.77	-13.00	48.77
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	35.24	-69.06	8.73	0.89	-61.22	-13.00	48.22
1693.20	V	35.44	-68.98	8.73	0.89	-61.14	-13.00	48.14
2539.80	H	34.79	-65.59	9.46	1.01	-57.14	-13.00	44.14
2539.80	V	35.55	-64.79	9.46	1.01	-56.34	-13.00	43.34
3386.40	H	36.05	-61.54	10.35	1.18	-52.37	-13.00	39.37
3386.40	V	34.93	-62.61	10.35	1.18	-53.44	-13.00	40.44
432.20	H	48.00	-60.45	0.00	0.40	-60.85	-13.00	47.85
432.20	V	46.15	-58.93	0.00	0.40	-59.33	-13.00	46.33

**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								
3700.40	H	35.48	-61.84	10.60	1.25	-52.49	-13.00	39.49
3700.40	V	34.25	-63.05	10.60	1.25	-53.70	-13.00	40.70
5550.60	H	36.18	-57.08	11.44	1.49	-47.13	-13.00	34.13
5550.60	V	37.88	-55.22	11.44	1.49	-45.27	-13.00	32.27
7400.80	H	43.51	-45.70	10.96	2.07	-36.81	-13.00	23.81
7400.80	V	41.43	-48.55	10.96	2.07	-39.66	-13.00	26.66
193.50	H	45.52	-67.24	0.00	0.26	-67.50	-13.00	54.50
65.80	V	54.41	-49.63	-7.23	0.15	-57.01	-13.00	44.01
GSM 1900 Frequency:1880MHz								
3760.00	H	36.25	-60.16	10.66	1.24	-50.74	-13.00	37.74
3760.00	V	36.85	-59.44	10.66	1.24	-50.02	-13.00	37.02
5640.00	H	34.62	-58.83	11.33	1.54	-49.04	-13.00	36.04
5640.00	V	37.21	-56.12	11.33	1.54	-46.33	-13.00	33.33
7520.00	H	44.25	-45.50	10.90	1.96	-36.56	-13.00	23.56
7520.00	V	42.31	-47.97	10.90	1.96	-39.03	-13.00	26.03
213.20	H	45.71	-66.92	0.00	0.27	-67.19	-13.00	54.19
51.80	V	56.26	-45.83	-14.07	0.13	-60.03	-13.00	47.03
GSM 1900 Frequency:1909.8MHz								
3819.60	H	37.91	-57.95	10.72	1.29	-48.52	-13.00	35.52
3819.60	V	37.25	-58.47	10.72	1.29	-49.04	-13.00	36.04
5729.40	H	35.17	-58.31	11.22	1.59	-48.68	-13.00	35.68
5729.40	V	36.62	-56.74	11.22	1.59	-47.11	-13.00	34.11
7639.20	H	36.64	-52.85	10.87	2.05	-44.03	-13.00	31.03
7639.20	V	38.36	-51.83	10.87	2.05	-43.01	-13.00	30.01
214.60	H	45.27	-67.33	0.00	0.27	-67.60	-13.00	54.60
51.80	V	54.42	-47.67	-14.07	0.13	-61.87	-13.00	48.87



Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ 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								
3704.80	H	36.94	-60.32	10.60	1.25	-50.97	-13.00	37.97
3704.80	V	35.96	-61.27	10.60	1.25	-51.92	-13.00	38.92
5557.20	H	34.56	-58.72	11.43	1.49	-48.78	-13.00	35.78
5557.20	V	34.84	-58.29	11.43	1.49	-48.35	-13.00	35.35
479.90	H	35.46	-71.87	0.00	0.41	-72.28	-13.00	59.28
479.90	V	41.85	-61.55	0.00	0.41	-61.96	-13.00	48.96
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	37.09	-59.32	10.66	1.24	-49.90	-13.00	36.90
3760.00	V	35.51	-60.78	10.66	1.24	-51.36	-13.00	38.36
5640.00	H	33.95	-59.50	11.33	1.54	-49.71	-13.00	36.71
5640.00	V	35.32	-58.01	11.33	1.54	-48.22	-13.00	35.22
430.80	H	33.19	-75.30	0.00	0.40	-75.70	-13.00	62.70
479.90	V	47.97	-55.43	0.00	0.41	-55.84	-13.00	42.84
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	34.62	-61.23	10.72	1.29	-51.80	-13.00	38.80
3815.20	V	35.47	-60.22	10.72	1.29	-50.79	-13.00	37.79
5722.80	H	35.15	-58.34	11.23	1.58	-48.69	-13.00	35.69
5722.80	V	35.62	-57.73	11.23	1.58	-48.08	-13.00	35.08
218.80	H	42.57	-69.95	0.00	0.27	-70.22	-13.00	57.22
479.90	V	44.14	-59.26	0.00	0.41	-59.67	-13.00	46.67

**AWS Band(Part 27)****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 IV, Frequency:1712.4 MHz								
3424.80	H	35.69	-62.08	10.37	1.17	-52.88	-13.00	39.88
3424.80	V	35.08	-62.66	10.37	1.17	-53.46	-13.00	40.46
5137.20	H	34.98	-58.64	11.28	1.46	-48.82	-13.00	35.82
5137.20	V	34.57	-58.93	11.28	1.46	-49.11	-13.00	36.11
479.90	H	42.75	-64.58	0.00	0.41	-64.99	-13.00	51.99
432.20	V	46.54	-58.54	0.00	0.40	-58.94	-13.00	45.94
WCDMA Band IV, Frequency:1732.6 MHz								
3465.20	H	35.96	-61.85	10.39	1.15	-52.61	-13.00	39.61
3465.20	V	37.52	-60.25	10.39	1.15	-51.01	-13.00	38.01
5197.80	H	36.18	-57.95	11.32	1.44	-48.07	-13.00	35.07
5197.80	V	36.41	-57.57	11.32	1.44	-47.69	-13.00	34.69
335.30	H	39.14	-71.05	0.00	0.35	-71.40	-13.00	58.40
479.90	V	48.27	-55.13	0.00	0.41	-55.54	-13.00	42.54
WCDMA Band IV, Frequency:1752.6MHz								
3505.20	H	34.76	-63.07	10.41	1.18	-53.84	-13.00	40.84
3505.20	V	35.46	-62.31	10.41	1.18	-53.08	-13.00	40.08
5257.80	H	35.85	-57.88	11.35	1.47	-48.00	-13.00	35.00
5257.80	V	36.02	-57.49	11.35	1.47	-47.61	-13.00	34.61
287.60	H	36.69	-74.32	0.00	0.33	-74.65	-13.00	61.65
479.90	V	44.09	-59.31	0.00	0.41	-59.72	-13.00	46.72

**LTE Bands:****LTE Band 2 (30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1850.7 MHz								
3701.40	H	44.35	-52.96	10.60	1.25	-43.61	-13.00	30.61
3701.40	V	46.91	-50.38	10.60	1.25	-41.03	-13.00	28.03
5552.10	H	36.07	-57.20	11.44	1.49	-47.25	-13.00	34.25
5552.10	V	35.25	-57.85	11.44	1.49	-47.90	-13.00	34.90
287.60	H	38.33	-72.68	0.00	0.33	-73.01	-13.00	60.01
479.90	V	47.67	-55.73	0.00	0.41	-56.14	-13.00	43.14
QPSK, Frequency: 1880 MHz								
3760.00	H	44.88	-51.53	10.66	1.24	-42.11	-13.00	29.11
3760.00	V	46.13	-50.16	10.66	1.24	-40.74	-13.00	27.74
5640.00	H	36.85	-56.60	11.33	1.54	-46.81	-13.00	33.81
5640.00	V	37.20	-56.13	11.33	1.54	-46.34	-13.00	33.34
479.90	H	37.04	-70.29	0.00	0.41	-70.70	-13.00	57.70
479.90	V	49.71	-53.69	0.00	0.41	-54.10	-13.00	41.10
QPSK, Frequency: 1909.3 MHz								
3818.60	H	44.63	-51.23	10.72	1.29	-41.80	-13.00	28.80
3818.60	V	45.05	-50.66	10.72	1.29	-41.23	-13.00	28.23
5727.90	H	35.89	-57.59	11.23	1.59	-47.95	-13.00	34.95
5727.90	V	36.30	-57.06	11.23	1.59	-47.42	-13.00	34.42
479.90	H	39.31	-68.02	0.00	0.41	-68.43	-13.00	55.43
479.90	V	48.61	-54.79	0.00	0.41	-55.20	-13.00	42.20

**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								
3421.40	H	35.82	-61.94	10.37	1.17	-52.74	-13.00	39.74
3421.40	V	36.72	-61.01	10.37	1.17	-51.81	-13.00	38.81
5132.10	H	39.05	-54.52	11.28	1.47	-44.71	-13.00	31.71
5132.10	V	37.20	-56.26	11.28	1.47	-46.45	-13.00	33.45
479.90	H	37.77	-69.56	0.00	0.41	-69.97	-13.00	56.97
479.90	V	49.15	-54.25	0.00	0.41	-54.66	-13.00	41.66
QPSK, Frequency: 1732.5 MHz								
3465.00	H	38.13	-59.68	10.39	1.15	-50.44	-13.00	37.44
3465.00	V	36.46	-61.31	10.39	1.15	-52.07	-13.00	39.07
5197.50	H	39.98	-54.15	11.32	1.44	-44.27	-13.00	31.27
5197.50	V	44.77	-49.21	11.32	1.44	-39.33	-13.00	26.33
287.60	H	42.40	-68.61	0.00	0.33	-68.94	-13.00	55.94
479.90	V	49.35	-54.05	0.00	0.41	-54.46	-13.00	41.46
QPSK, Frequency: 1754.3 MHz								
3505.20	H	36.16	-61.67	10.41	1.18	-52.44	-13.00	39.44
3505.20	V	37.33	-60.44	10.41	1.18	-51.21	-13.00	38.21
5257.80	H	41.49	-52.24	11.35	1.47	-42.36	-13.00	29.36
5257.80	V	41.45	-52.06	11.35	1.47	-42.18	-13.00	29.18
287.60	H	39.51	-71.50	0.00	0.33	-71.83	-13.00	58.83
479.90	V	48.66	-54.74	0.00	0.41	-55.15	-13.00	42.15

**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								
1649.40	H	46.09	-58.24	8.68	0.80	-50.36	-13.00	37.36
1649.40	V	51.13	-53.28	8.68	0.80	-45.40	-13.00	32.40
2474.10	H	44.90	-55.88	9.38	1.00	-47.50	-13.00	34.50
2474.10	V	43.77	-56.96	9.38	1.00	-48.58	-13.00	35.58
3298.80	H	57.24	-39.44	10.32	1.15	-30.27	-13.00	17.27
3298.80	V	60.42	-36.02	10.32	1.15	-26.85	-13.00	13.85
4123.50	H	48.03	-47.96	10.83	1.27	-38.40	-13.00	25.40
4123.50	V	50.48	-45.48	10.83	1.27	-35.92	-13.00	22.92
4948.20	H	49.11	-43.76	11.14	1.51	-34.13	-13.00	21.13
4948.20	V	49.15	-43.72	11.14	1.51	-34.09	-13.00	21.09
287.60	H	38.04	-72.97	0.00	0.33	-73.30	-13.00	60.30
479.90	V	48.53	-54.87	0.00	0.41	-55.28	-13.00	42.28
QPSK, Frequency: 836.5 MHz								
1673.00	H	43.88	-60.43	8.71	0.85	-52.57	-13.00	39.57
1673.00	V	48.66	-55.75	8.71	0.85	-47.89	-13.00	34.89
2509.50	H	46.09	-54.52	9.42	1.01	-46.11	-13.00	33.11
2509.50	V	47.91	-52.71	9.42	1.01	-44.30	-13.00	31.30
3346.00	H	59.11	-38.05	10.34	1.16	-28.87	-13.00	15.87
3346.00	V	61.10	-35.92	10.34	1.16	-26.74	-13.00	13.74
4182.50	H	51.45	-44.50	10.79	1.32	-35.03	-13.00	22.03
4182.50	V	54.56	-41.36	10.79	1.32	-31.89	-13.00	18.89
5019.00	H	47.95	-45.06	11.21	1.45	-35.30	-13.00	22.30
5019.00	V	49.59	-43.29	11.21	1.45	-33.53	-13.00	20.53
221.60	H	39.91	-72.55	0.00	0.27	-72.82	-13.00	59.82
479.90	V	47.45	-55.95	0.00	0.41	-56.36	-13.00	43.36
QPSK, Frequency: 848.3 MHz								
1696.60	H	46.72	-57.57	8.74	0.89	-49.72	-13.00	36.72
1696.60	V	50.70	-53.72	8.74	0.89	-45.87	-13.00	32.87
2544.90	H	50.93	-49.41	9.47	1.01	-40.95	-13.00	27.95
2544.90	V	51.93	-48.37	9.47	1.01	-39.91	-13.00	26.91
3393.20	H	60.39	-37.28	10.36	1.19	-28.11	-13.00	15.11
3393.20	V	60.68	-36.95	10.36	1.19	-27.78	-13.00	14.78
4241.50	H	52.06	-44.03	10.76	1.31	-34.58	-13.00	21.58
4241.50	V	56.93	-39.08	10.76	1.31	-29.63	-13.00	16.63
5089.80	H	47.43	-45.83	11.25	1.52	-36.10	-13.00	23.10
5089.80	V	47.92	-45.25	11.25	1.52	-35.52	-13.00	22.52
432.20	H	38.57	-69.88	0.00	0.40	-70.28	-13.00	57.28
479.90	V	48.32	-55.08	0.00	0.41	-55.49	-13.00	42.49

**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								
1399.40	H	56.26	-47.44	8.22	0.71	-39.93	-13.00	26.93
1399.40	V	53.34	-50.41	8.22	0.71	-42.90	-13.00	29.90
2099.10	H	37.65	-64.23	9.16	0.91	-55.98	-13.00	42.98
2099.10	V	37.11	-64.72	9.16	0.91	-56.47	-13.00	43.47
2798.80	H	48.79	-51.14	9.88	1.04	-42.30	-13.00	29.30
2798.80	V	50.07	-49.73	9.88	1.04	-40.89	-13.00	27.89
3498.50	H	41.78	-56.07	10.40	1.18	-46.85	-13.00	33.85
3498.50	V	45.26	-52.53	10.40	1.18	-43.31	-13.00	30.31
479.90	H	36.96	-70.37	0.00	0.41	-70.78	-13.00	57.78
479.90	V	48.23	-55.17	0.00	0.41	-55.58	-13.00	42.58
QPSK, Frequency:707.5 MHz								
1415.00	H	60.17	-43.50	8.26	0.72	-35.96	-13.00	22.96
1415.00	V	56.65	-47.07	8.26	0.72	-39.53	-13.00	26.53
2122.50	H	36.46	-65.53	9.17	0.92	-57.28	-13.00	44.28
2122.50	V	36.99	-64.98	9.17	0.92	-56.73	-13.00	43.73
2830.00	H	46.11	-53.69	9.93	1.06	-44.82	-13.00	31.82
2830.00	V	46.80	-52.93	9.93	1.06	-44.06	-13.00	31.06
3537.50	H	39.16	-58.58	10.44	1.21	-49.35	-13.00	36.35
3537.50	V	40.38	-57.27	10.44	1.21	-48.04	-13.00	35.04
715.70	H	43.45	-60.80	0.00	0.50	-61.30	-13.00	48.30
479.90	V	46.57	-56.83	0.00	0.41	-57.24	-13.00	44.24
QPSK, Frequency: 715.3 MHz								
1430.60	H	53.34	-50.29	8.31	0.73	-42.71	-13.00	29.71
1430.60	V	51.90	-51.79	8.31	0.73	-44.21	-13.00	31.21
2145.90	H	36.12	-65.98	9.19	0.93	-57.72	-13.00	44.72
2145.90	V	35.34	-66.77	9.19	0.93	-58.51	-13.00	45.51
2861.20	H	47.72	-51.93	9.98	1.07	-43.02	-13.00	30.02
2861.20	V	48.81	-50.86	9.98	1.07	-41.95	-13.00	28.95
3576.50	H	42.70	-54.92	10.48	1.23	-45.67	-13.00	32.67
3576.50	V	45.68	-51.82	10.48	1.23	-42.57	-13.00	29.57
432.20	H	37.47	-70.98	0.00	0.40	-71.38	-13.00	58.38
479.90	V	47.51	-55.89	0.00	0.41	-56.30	-13.00	43.30

**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								
1559.00	H	39.97	-64.02	8.57	0.80	-56.25	-40.00	16.25
1559.00	V	38.72	-65.33	8.57	0.80	-57.56	-40.00	17.56
2338.50	H	36.03	-65.56	9.30	0.97	-57.23	-13.00	44.23
2338.50	V	35.72	-65.64	9.30	0.97	-57.31	-13.00	44.31
3118.00	H	35.27	-62.22	10.25	1.13	-53.10	-13.00	40.10
3118.00	V	36.64	-60.71	10.25	1.13	-51.59	-13.00	38.59
479.90	H	39.85	-67.48	0.00	0.41	-67.89	-13.00	54.89
479.90	V	48.35	-55.05	0.00	0.41	-55.46	-13.00	42.46
QPSK, Frequency: 784.5 MHz								
1569.00	H	39.73	-64.35	8.58	0.81	-56.58	-40.00	16.58
1569.00	V	40.44	-63.69	8.58	0.81	-55.92	-40.00	15.92
2353.50	H	36.71	-64.74	9.31	0.97	-56.40	-13.00	43.40
2353.50	V	35.73	-65.49	9.31	0.97	-57.15	-13.00	44.15
3138.00	H	36.41	-60.99	10.26	1.14	-51.87	-13.00	38.87
3138.00	V	36.50	-60.73	10.26	1.14	-51.61	-13.00	38.61
479.90	H	38.44	-68.89	0.00	0.41	-69.30	-13.00	56.30
479.90	V	47.93	-55.47	0.00	0.41	-55.88	-13.00	42.88



**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								
1413.00	H	54.86	-48.81	8.26	0.72	-41.27	-13.00	28.27
1413.00	V	51.92	-51.80	8.26	0.72	-44.26	-13.00	31.26
2119.50	H	35.58	-66.39	9.17	0.92	-58.14	-13.00	45.14
2119.50	V	35.22	-66.73	9.17	0.92	-58.48	-13.00	45.48
2826.00	H	40.17	-59.64	9.92	1.06	-50.78	-13.00	37.78
2826.00	V	40.60	-59.14	9.92	1.06	-50.28	-13.00	37.28
3532.50	H	35.68	-62.07	10.43	1.21	-52.85	-13.00	39.85
3532.50	V	36.63	-61.04	10.43	1.21	-51.82	-13.00	38.82
287.60	H	41.55	-69.46	0.00	0.33	-69.79	-13.00	56.79
479.90	V	49.30	-54.10	0.00	0.41	-54.51	-13.00	41.51
QPSK, Frequency: 710 MHz								
1420.00	H	56.21	-47.45	8.28	0.73	-39.90	-13.00	26.90
1420.00	V	52.21	-51.50	8.28	0.73	-43.95	-13.00	30.95
2130.00	H	35.85	-66.17	9.18	0.92	-57.91	-13.00	44.91
2130.00	V	36.74	-65.27	9.18	0.92	-57.01	-13.00	44.01
2840.00	H	44.94	-54.81	9.94	1.06	-45.93	-13.00	32.93
2840.00	V	44.85	-54.86	9.94	1.06	-45.98	-13.00	32.98
3550.00	H	39.15	-58.55	10.45	1.22	-49.32	-13.00	36.32
3550.00	V	40.92	-56.68	10.45	1.22	-47.45	-13.00	34.45
287.60	H	42.23	-68.78	0.00	0.33	-69.11	-13.00	56.11
479.90	V	47.80	-55.60	0.00	0.41	-56.01	-13.00	43.01
QPSK, Frequency: 713.5 MHz								
1427.00	H	36.44	-67.20	8.30	0.73	-59.63	-13.00	46.63
1427.00	V	52.00	-51.69	8.30	0.73	-44.12	-13.00	31.12
2140.50	H	36.30	-65.77	9.18	0.93	-57.52	-13.00	44.52
2140.50	V	35.85	-66.23	9.18	0.93	-57.98	-13.00	44.98
2854.00	H	36.24	-63.45	9.97	1.07	-54.55	-13.00	41.55
2854.00	V	45.23	-54.45	9.97	1.07	-45.55	-13.00	32.55
3567.50	H	34.89	-62.76	10.47	1.23	-53.52	-13.00	40.52
3567.50	V	41.74	-55.79	10.47	1.23	-46.55	-13.00	33.55
287.60	H	40.83	-70.18	0.00	0.33	-70.51	-13.00	57.51
479.90	V	47.27	-56.13	0.00	0.41	-56.54	-13.00	43.54

**LTE Band 66(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								
3421.40	H	37.13	-60.63	10.37	1.17	-51.43	-13.00	38.43
3421.40	V	35.47	-62.26	10.37	1.17	-53.06	-13.00	40.06
5132.10	H	45.36	-48.21	11.28	1.47	-38.40	-13.00	25.40
5132.10	V	38.33	-55.13	11.28	1.47	-45.32	-13.00	32.32
479.90	H	40.12	-67.21	0.00	0.41	-67.62	-13.00	54.62
479.90	V	50.04	-53.36	0.00	0.41	-53.77	-13.00	40.77
QPSK, Frequency:1745 MHz								
3490.00	H	36.21	-61.63	10.40	1.17	-52.40	-13.00	39.40
3490.00	V	37.32	-60.46	10.40	1.17	-51.23	-13.00	38.23
5235.00	H	46.36	-47.54	11.34	1.46	-37.66	-13.00	24.66
5235.00	V	38.66	-55.05	11.34	1.46	-45.17	-13.00	32.17
479.90	H	39.79	-67.54	0.00	0.41	-67.95	-13.00	54.95
479.90	V	48.42	-54.98	0.00	0.41	-55.39	-13.00	42.39
QPSK, Frequency: 1779.3 MHz								
3558.60	H	36.75	-60.92	10.46	1.22	-51.68	-13.00	38.68
3558.60	V	37.68	-59.89	10.46	1.22	-50.65	-13.00	37.65
5337.90	H	42.04	-51.43	11.40	1.47	-41.50	-13.00	28.50
5337.90	V	40.77	-52.56	11.40	1.47	-42.63	-13.00	29.63
210.40	H	44.07	-68.61	0.00	0.26	-68.87	-13.00	55.87
479.90	V	48.78	-54.62	0.00	0.41	-55.03	-13.00	42.03

## 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 \*\*\*\*\***