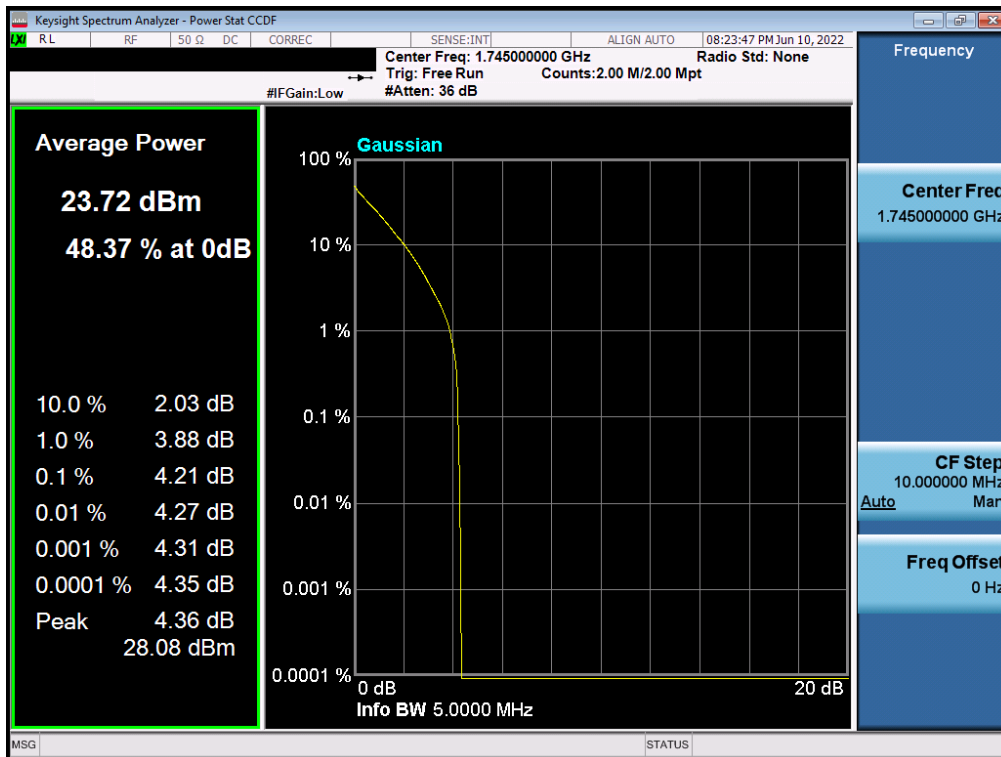
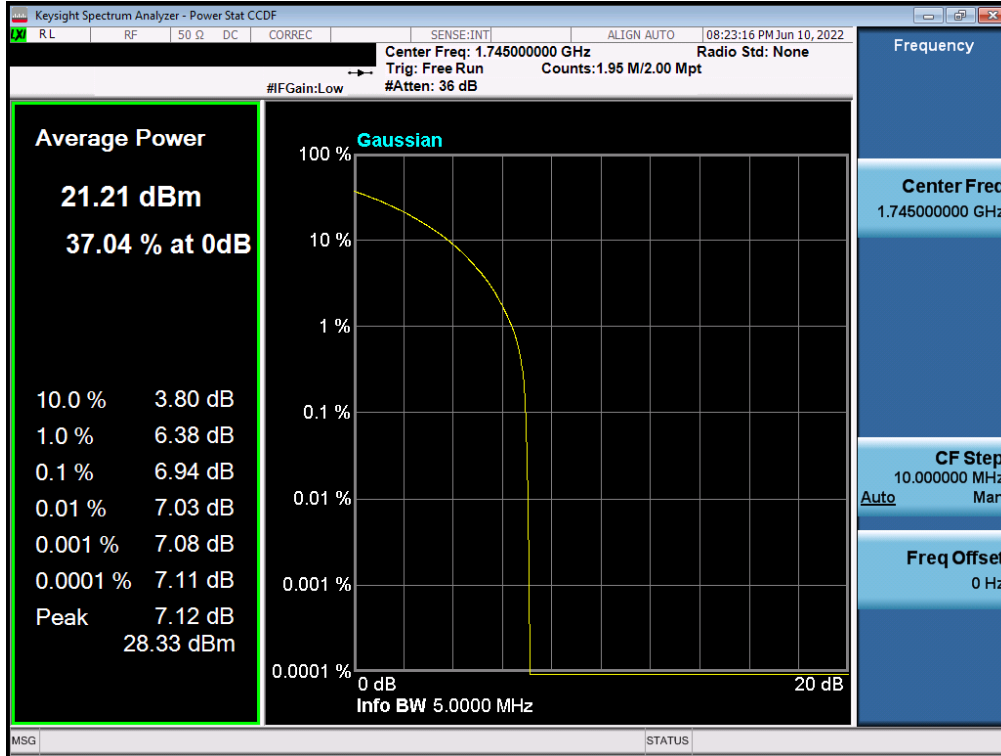


Plot 7-251. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB)

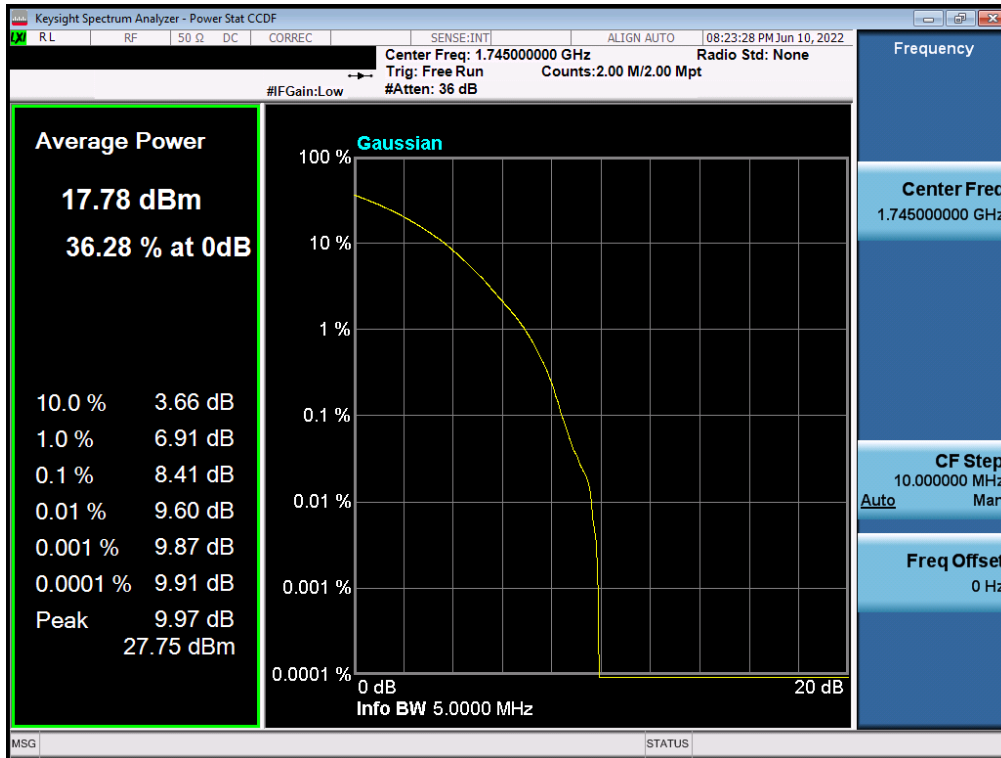


Plot 7-252. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB)

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Plot 7-253. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB)



Plot 7-254. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

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7.7 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

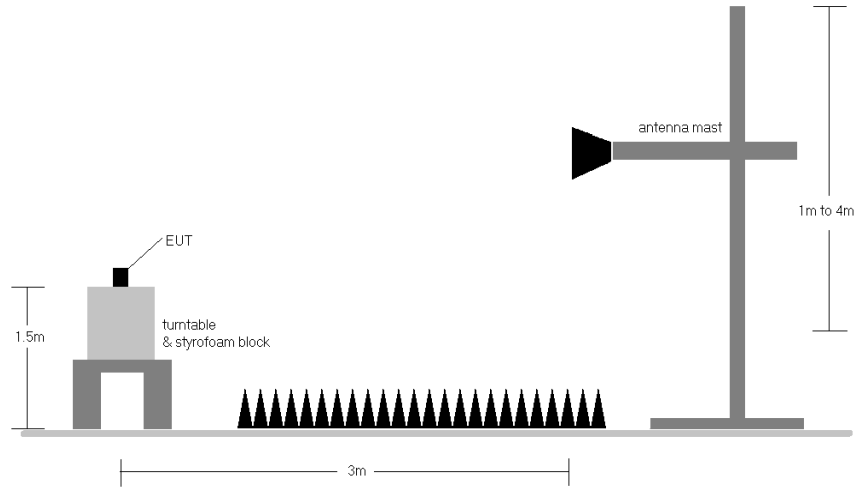


Figure 7-6. Radiated Test Setup <1GHz

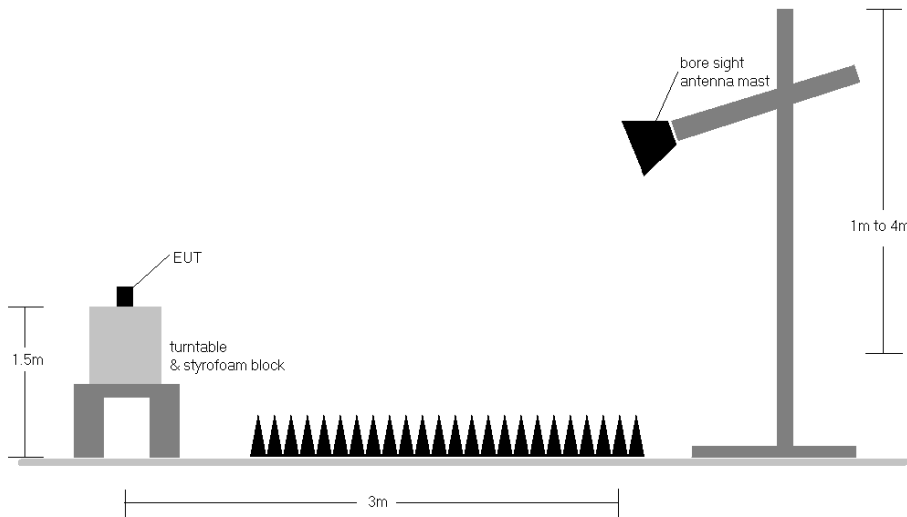


Figure 7-7. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) 0
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.0	V	190	367	2.89	1 / 99	11.66	14.55	0.029	36.99	-22.44	12.40	0.017	34.77	-22.37
	QPSK	680.5	V	175	359	3.09	1 / 50	12.18	15.27	0.034	36.99	-21.72	13.12	0.020	34.77	-21.66
	QPSK	688.0	V	196	369	3.28	1 / 0	11.55	14.83	0.030	36.99	-22.16	12.68	0.019	34.77	-22.09
	16-QAM	680.5	V	175	359	3.09	1 / 50	11.81	14.90	0.031	36.99	-22.09	12.75	0.019	34.77	-22.03
15 MHz	QPSK	670.5	V	190	367	2.76	1 / 0	11.81	14.57	0.029	36.99	-22.42	12.42	0.017	34.77	-22.35
	QPSK	680.5	V	175	359	3.09	1 / 37	12.04	15.12	0.033	36.99	-21.87	12.97	0.020	34.77	-21.80
	QPSK	690.5	V	196	369	3.31	1 / 0	11.80	15.11	0.032	36.99	-21.88	12.96	0.020	34.77	-21.81
	16-QAM	680.5	V	175	359	3.09	1 / 0	11.76	14.84	0.031	36.99	-22.15	12.69	0.019	34.77	-22.08
10 MHz	QPSK	668.0	V	190	367	2.72	1 / 0	12.09	14.82	0.030	36.99	-22.17	12.67	0.018	34.77	-22.10
	QPSK	680.5	V	175	359	3.09	1 / 0	12.50	15.59	0.036	36.99	-21.40	13.44	0.022	34.77	-21.33
	QPSK	693.0	V	196	369	3.44	1 / 25	11.54	14.99	0.032	36.99	-22.00	12.84	0.019	34.77	-21.93
	16-QAM	680.5	V	175	359	3.09	1 / 0	11.95	15.04	0.032	36.99	-21.95	12.89	0.019	34.77	-21.88
5 MHz	QPSK	665.5	V	190	367	2.59	1 / 12	12.31	14.90	0.031	36.99	-21.99	12.75	0.019	34.77	-22.02
	QPSK	680.5	V	175	359	3.09	1 / 12	12.42	15.50	0.036	36.99	-21.49	13.35	0.022	34.77	-21.42
	QPSK	695.5	V	196	369	3.48	1 / 12	11.68	15.15	0.033	36.99	-21.84	13.00	0.020	34.77	-21.77
	16-QAM	680.5	V	175	359	3.09	1 / 12	12.28	15.36	0.034	36.99	-21.63	13.21	0.021	34.77	-21.56
20 MHz	Opposite Pol.	680.5	H	329	274	3.09	1 / 50	11.23	14.32	0.027	36.99	-22.67	12.17	0.016	34.77	-22.61
	WCP	680.5	H	135	60	3.09	1 / 50	14.14	17.23	0.053	36.99	-19.76	15.08	0.032	34.77	-19.70

Table 7-7. ERP Data (LTE Band 71)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	V	178	252	3.58	1 / 49	12.79	16.37	0.043	36.99	-20.62	14.22	0.026	34.77	-20.55
	QPSK	707.5	V	172	248	3.62	1 / 49	13.54	17.16	0.052	36.99	-19.83	15.01	0.032	34.77	-19.76
	QPSK	711.0	V	181	248	3.67	1 / 49	13.58	17.25	0.053	36.99	-19.74	15.10	0.032	34.77	-19.67
	16-QAM	707.5	V	172	248	3.62	1 / 49	12.92	16.54	0.045	36.99	-20.45	14.39	0.028	34.77	-20.38
5 MHz	QPSK	701.5	V	178	252	3.55	1 / 12	12.92	16.47	0.044	36.99	-20.52	14.32	0.027	34.77	-20.45
	QPSK	707.5	V	172	248	3.62	1 / 12	13.60	17.22	0.053	36.99	-19.77	15.07	0.032	34.77	-19.70
	QPSK	713.5	V	181	248	3.80	1 / 12	13.38	17.18	0.052	36.99	-19.81	15.03	0.032	34.77	-19.74
	16-QAM	707.5	V	172	248	3.62	1 / 12	13.09	16.72	0.047	36.99	-20.27	14.57	0.029	34.77	-20.21
3 MHz	QPSK	700.5	V	178	252	3.54	1 / 7	12.91	16.44	0.044	36.99	-20.55	14.29	0.027	34.77	-20.48
	QPSK	707.5	V	172	248	3.62	1 / 14	13.58	17.20	0.052	36.99	-19.79	15.05	0.032	34.77	-19.72
	QPSK	714.5	V	181	248	3.81	1 / 7	13.29	17.10	0.051	36.99	-19.89	14.95	0.031	34.77	-19.82
	16-QAM	707.5	V	172	248	3.62	1 / 7	12.97	16.59	0.046	36.99	-20.40	14.44	0.028	34.77	-20.33
1.4 MHz	QPSK	699.7	V	178	252	3.53	1 / 3	12.94	16.47	0.044	36.99	-20.52	14.32	0.027	34.77	-20.45
	QPSK	707.5	V	172	248	3.62	1 / 5	13.65	17.28	0.053	36.99	-19.71	15.13	0.033	34.77	-19.64
	QPSK	715.3	V	181	248	3.85	1 / 0	13.38	17.23	0.053	36.99	-19.76	15.08	0.032	34.77	-19.70
	16-QAM	707.5	V	172	248	3.62	1 / 0	12.89	16.51	0.045	36.99	-20.48	14.36	0.027	34.77	-20.41
10 MHz	Opposite Pol.	711.0	H	300	272	3.57	1 / 49	13.26	16.83	0.048	36.99	-20.16	14.68	0.029	34.77	-20.09
	WCP	711.0	H	122	310	3.62	1 / 49	11.09	14.71	0.030	36.99	-22.28	12.66	0.018	34.77	-22.21

Table 7-8. ERP Data (LTE Band 12/17) – Main ANT

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	H	244	263	6.09	1 / 0	12.39	18.48	0.071	36.99	-18.51	16.33	0.043	34.77	-18.44
	16-QAM	782.0	H	244	263	6.09	1 / 0	11.93	18.02	0.063	36.99	-18.97	15.87	0.039	34.77	-18.90
5 MHz	QPSK	779.5	H	244	263	5.97	1 / 24	12.52	18.49	0.071	36.99	-18.50	16.34	0.043	34.77	-18.43
	QPSK	782.0	H	244	263	6.09	1 / 12	12.32	18.41	0.069	36.99	-18.58	16.26	0.042	34.77	-18.51
	QPSK	784.5	H	244	263	6.17	1 / 0	12.47	18.64	0.073	36.99	-18.35	16.49	0.045	34.77	-18.28
	16-QAM	782.0	H	244	263	6.09	1 / 12	12.09	18.18	0.066	36.99	-18.81	16.03	0.040	34.77	-18.74
10 MHz	Opposite Pol.	782.0	V	139	229	6.09	1 / 0	10.53	16.62	0.046	36.99	-20.37	14.47	0.028	34.77	-20.30
	WCP	782.0	H	102	47	6.09	1 / 0	10.33	16.42	0.044	36.99	-20.57	14.27	0.027	34.77	-20.50

Table 7-9. ERP Data (LTE Band 13) – Main ANT

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	V	171	150	4.28	9.49	13.77	0.024	30.00	-16.23
1732.60	WCDMA1700	V	156	135	7.01	9.16	16.17	0.041	30.00	-13.83
1752.60	WCDMA1700	V	171	150	5.92	9.05	14.97	0.031	30.00	-15.03
1732.60	WCDMA1700	H	179	171	5.91	9.49	15.40	0.035	30.00	-14.60
1732.60	WCDMA1700 (WCP)	H	165	137	4.66	9.49	14.15	0.026	30.00	-15.85

Table 7-10. EIRP Data (WCDMA AWS)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	H	270	187	9.47	1 / 99	10.80	20.27	0.106	30.00	-9.73
	QPSK	1745.0	H	262	172	9.48	1 / 0	11.93	21.41	0.138	30.00	-8.59
	QPSK	1770.0	H	257	202	9.39	1 / 99	10.06	19.45	0.088	30.00	-10.55
	16-QAM	1770.0	H	257	202	9.39	1 / 99	9.15	18.54	0.071	30.00	-11.46
15 MHz	QPSK	1717.5	H	270	187	9.49	1 / 37	10.74	20.23	0.105	30.00	-9.77
	QPSK	1745.0	H	262	172	9.48	1 / 37	11.90	21.38	0.137	30.00	-8.62
	QPSK	1772.5	H	257	202	9.36	1 / 37	9.97	19.33	0.086	30.00	-10.67
	16-QAM	1745.0	H	262	172	9.48	1 / 37	8.66	18.14	0.065	30.00	-11.86
10 MHz	QPSK	1715.0	H	270	187	9.52	1 / 25	10.78	20.30	0.107	30.00	-9.70
	QPSK	1745.0	H	262	172	9.48	1 / 25	12.01	21.49	0.141	30.00	-8.51
	QPSK	1775.0	H	257	202	9.34	1 / 49	10.05	19.39	0.087	30.00	-10.61
	16-QAM	1715.0	H	270	187	9.52	1 / 49	8.85	18.36	0.069	30.00	-11.64
5 MHz	QPSK	1712.5	H	270	187	9.54	1 / 0	10.82	20.36	0.109	30.00	-9.64
	QPSK	1745.0	H	262	172	9.48	1 / 12	12.12	21.60	0.144	30.00	-8.40
	QPSK	1777.5	H	257	202	9.31	1 / 0	10.11	19.42	0.087	30.00	-10.58
	16-QAM	1712.5	H	270	187	9.54	1 / 24	9.12	18.67	0.074	30.00	-11.33
3 MHz	QPSK	1711.5	H	270	187	9.55	1 / 14	10.78	20.34	0.108	30.00	-9.66
	QPSK	1745.0	H	262	172	9.48	1 / 7	11.98	21.46	0.140	30.00	-8.54
	QPSK	1778.5	H	257	202	9.30	1 / 7	10.22	19.52	0.090	30.00	-10.48
	16-QAM	1711.5	H	270	187	9.55	1 / 14	8.68	18.23	0.067	30.00	-11.77
1.4 MHz	QPSK	1710.7	H	270	187	9.56	1 / 3	10.77	20.33	0.108	30.00	-9.67
	QPSK	1745.0	H	262	172	9.48	1 / 0	11.97	21.45	0.140	30.00	-8.55
	QPSK	1779.3	H	257	202	9.29	1 / 5	9.93	19.23	0.084	30.00	-10.77
	16-QAM	1710.7	H	270	187	9.56	1 / 5	8.71	18.27	0.067	30.00	-11.73
20 MHz	Opposite Pol.	1745.0	V	367	38	9.39	1 / 0	5.16	14.55	0.029	30.00	-15.45
	WCP	1745.0	H	170	144	9.48	1 / 0	12.45	21.93	0.156	30.00	-8.07

Table 7-11. EIRP Data (LTE Band 66/4)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	673.0	V	188	278	2.89	1 / 79	13.18	16.07	0.040	36.99	-20.92	13.92	0.025	34.77	-20.85
	π/2 BPSK	680.5	V	188	278	3.09	1 / 53	13.12	16.21	0.042	36.99	-20.78	14.06	0.025	34.77	-20.72
	π/2 BPSK	688.0	V	185	271	3.28	1 / 53	12.76	16.04	0.040	36.99	-20.95	13.89	0.024	34.77	-20.88
	QPSK	673.0	V	188	278	2.89	1 / 79	13.15	16.04	0.040	36.99	-20.95	13.89	0.024	34.77	-20.88
	QPSK	680.5	V	188	278	3.09	1 / 53	12.94	16.03	0.040	36.99	-20.96	13.88	0.024	34.77	-20.90
	QPSK	688.0	V	185	271	3.28	1 / 53	12.68	15.96	0.039	36.99	-21.03	13.81	0.024	34.77	-20.96
	16-QAM	688.0	V	185	271	3.28	1 / 53	12.31	15.59	0.036	36.99	-21.40	13.44	0.022	34.77	-21.33
	16-QAM	680.5	V	185	271	3.31	1 / 58	12.26	15.57	0.036	36.99	-21.42	13.42	0.022	34.77	-21.35
15 MHz	π/2 BPSK	670.5	V	188	278	2.76	1 / 58	13.09	15.85	0.038	36.99	-21.14	13.70	0.023	34.77	-21.07
	π/2 BPSK	680.5	V	188	278	3.09	1 / 39	13.09	16.18	0.042	36.99	-20.81	14.03	0.025	34.77	-20.74
	π/2 BPSK	690.5	V	185	271	3.31	1 / 58	12.69	16.00	0.040	36.99	-20.99	13.85	0.024	34.77	-20.92
	QPSK	670.5	V	188	278	2.76	1 / 39	13.35	16.10	0.041	36.99	-20.88	13.95	0.025	34.77	-20.82
	QPSK	680.5	V	188	278	3.09	1 / 39	12.85	15.93	0.039	36.99	-21.06	13.78	0.024	34.77	-20.99
	QPSK	690.5	V	185	271	3.31	1 / 58	12.93	16.25	0.042	36.99	-20.74	14.10	0.026	34.77	-20.68
	16-QAM	690.5	V	185	271	3.31	1 / 58	12.26	15.57	0.036	36.99	-21.42	13.42	0.022	34.77	-21.35
	16-QAM	680.5	V	185	271	3.31	1 / 58	12.26	15.57	0.036	36.99	-21.42	13.42	0.022	34.77	-21.35
10 MHz	π/2 BPSK	668.0	V	188	278	2.72	1 / 38	12.88	15.60	0.036	36.99	-21.39	13.45	0.022	34.77	-21.32
	π/2 BPSK	680.5	V	188	278	3.09	1 / 38	12.91	16.00	0.040	36.99	-20.99	13.85	0.024	34.77	-20.92
	π/2 BPSK	693.0	V	185	271	3.44	1 / 26	12.65	16.10	0.041	36.99	-20.89	13.95	0.025	34.77	-20.82
	QPSK	668.0	V	188	278	2.72	1 / 26	13.10	15.82	0.038	36.99	-21.17	13.67	0.023	34.77	-21.10
	QPSK	680.5	V	188	278	3.09	1 / 38	12.70	15.79	0.038	36.99	-21.20	13.64	0.023	34.77	-21.14
	QPSK	693.0	V	185	271	3.44	1 / 38	12.56	16.00	0.040	36.99	-20.99	13.85	0.024	34.77	-20.92
	16-QAM	693.0	V	185	271	3.44	1 / 26	12.05	15.49	0.035	36.99	-21.50	13.34	0.022	34.77	-21.43
	16-QAM	680.5	V	188	278	2.59	1 / 12	13.22	15.81	0.038	36.99	-21.18	13.66	0.023	34.77	-21.11
5 MHz	π/2 BPSK	680.5	V	188	278	3.09	1 / 12	13.05	16.13	0.041	36.99	-20.86	13.98	0.025	34.77	-20.79
	π/2 BPSK	695.5	V	185	271	3.48	1 / 18	12.88	16.35	0.043	36.99	-20.64	14.20	0.026	34.77	-20.57
	QPSK	665.5	V	188	278	2.59	1 / 12	13.23	15.83	0.038	36.99	-21.16	13.68	0.023	34.77	-21.09
	QPSK	680.5	V	188	278	3.09	1 / 12	12.67	15.76	0.038	36.99	-21.23	13.61	0.023	34.77	-21.16
	QPSK	695.5	V	185	271	3.48	1 / 18	12.77	16.25	0.042	36.99	-20.74	14.10	0.026	34.77	-20.68
	16-QAM	680.5	V	188	278	3.09	1 / 12	11.88	14.97	0.031	36.99	-22.02	12.82	0.019	34.77	-21.95
	QPSK (CP-OFDM)	680.5	V	166	12	3.09	1 / 79	10.80	13.89	0.024	36.99	-23.10	11.74	0.015	34.77	-23.04
	QPSK (Opposite Pol.)	680.5	H	136	277	3.09	1 / 79	12.72	15.81	0.038	36.99	-21.18	13.66	0.023	34.77	-21.12
20 MHz	QPSK (WCP)	680.5	H	143	275	3.09	1 / 79	10.76	13.85	0.024	36.99	-23.14	11.70	0.015	34.77	-23.08

Table 7-12. ERP Data (NR Band 71)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1720.0	H	142	152	9.47	1 / 79	11.65	21.12	0.129	30.00	-8.88
	$\pi/2$ BPSK	1745.0	H	229	173	9.48	1 / 79	12.13	21.61	0.145	30.00	-8.39
	$\pi/2$ BPSK	1770.0	H	162	137	9.39	1 / 79	12.39	21.78	0.151	30.00	-8.22
	QPSK	1720.0	H	142	152	9.47	1 / 79	11.67	21.14	0.130	30.00	-8.86
	QPSK	1745.0	H	229	173	9.48	1 / 79	11.52	21.00	0.126	30.00	-9.00
	QPSK	1770.0	H	162	137	9.39	1 / 53	12.42	21.81	0.152	30.00	-8.19
15 MHz	16-QAM	1720.0	H	142	152	9.47	1 / 79	11.23	20.70	0.117	30.00	-9.30
	$\pi/2$ BPSK	1717.5	H	140	28	9.49	1 / 39	11.67	21.17	0.131	30.00	-8.83
	$\pi/2$ BPSK	1745.0	H	140	20	9.48	1 / 39	12.05	21.53	0.142	30.00	-8.47
	$\pi/2$ BPSK	1772.5	H	137	28	9.36	1 / 39	12.40	21.76	0.150	30.00	-8.24
	QPSK	1717.5	H	140	28	9.49	1 / 58	11.64	21.13	0.130	30.00	-8.87
	QPSK	1745.0	H	140	20	9.48	1 / 58	11.67	21.15	0.130	30.00	-8.85
10 MHz	QPSK	1772.5	H	137	28	9.36	1 / 58	12.40	21.76	0.150	30.00	-8.24
	16-QAM	1717.5	H	140	28	9.49	1 / 58	11.20	20.69	0.117	30.00	-9.31
	$\pi/2$ BPSK	1715.0	H	140	28	9.52	1 / 38	11.50	21.02	0.126	30.00	-8.98
	$\pi/2$ BPSK	1745.0	H	140	20	9.48	1 / 38	12.08	21.56	0.143	30.00	-8.44
	$\pi/2$ BPSK	1775.0	H	137	28	9.34	1 / 26	12.23	21.57	0.144	30.00	-8.43
	QPSK	1715.0	H	140	28	9.52	1 / 38	11.46	20.97	0.125	30.00	-9.03
5 MHz	QPSK	1745.0	H	140	20	9.48	1 / 26	11.65	21.13	0.130	30.00	-8.87
	QPSK	1775.0	H	137	28	9.34	1 / 26	12.30	21.64	0.146	30.00	-8.36
	16-QAM	1715.0	H	140	28	9.52	1 / 38	11.20	20.71	0.118	30.00	-9.29
	$\pi/2$ BPSK	1712.5	H	140	28	9.54	1 / 12	11.37	20.92	0.123	30.00	-9.08
	$\pi/2$ BPSK	1745.0	H	140	20	9.48	1 / 12	11.93	21.41	0.138	30.00	-8.59
	$\pi/2$ BPSK	1777.5	H	137	28	9.31	1 / 12	12.08	21.39	0.138	30.00	-8.61
20 MHz	QPSK	1712.5	H	140	28	9.54	1 / 12	11.26	20.81	0.120	30.00	-9.19
	QPSK	1745.0	H	140	20	9.48	1 / 12	11.67	21.15	0.130	30.00	-8.85
	QPSK	1777.5	H	137	28	9.31	1 / 12	12.21	21.52	0.142	30.00	-8.48
	16-QAM	1712.5	H	140	28	9.54	1 / 12	11.16	20.70	0.118	30.00	-9.30
	QPSK (CP-OFDM)	1770.0	H	162	137	9.31	1 / 79	10.57	19.88	0.097	30.00	-10.12
	QPSK (Opposite Pol.)	1770.0	V	138	327	9.31	1 / 53	11.37	20.68	0.117	30.00	-9.32
20 MHz	QPSK (WCP)	1770.0	H	128	336	9.31	1 / 79	9.97	19.28	0.085	30.00	-10.72

Table 7-13. EIRP Data (NR Band n66)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	H	293	269	3.48	1 / 25	14.15	17.63	0.058	36.99	-19.36	15.48	0.035	34.77	-19.29
	QPSK	707.5	H	298	270	3.52	1 / 25	14.50	18.02	0.063	36.99	-18.97	15.87	0.039	34.77	-18.90
	QPSK	711.0	H	299	259	3.57	1 / 25	14.33	17.90	0.062	36.99	-19.09	15.75	0.038	34.77	-19.02
	16-QAM	707.5	H	298	270	3.52	1 / 25	13.77	17.29	0.054	36.99	-19.70	15.14	0.033	34.77	-19.63
5 MHz	QPSK	701.5	H	293	269	3.45	1 / 12	14.43	17.88	0.061	36.99	-19.11	15.73	0.037	34.77	-19.04
	QPSK	707.5	H	298	270	3.52	1 / 12	14.61	18.13	0.065	36.99	-18.86	15.98	0.040	34.77	-18.79
	QPSK	713.5	H	299	259	3.70	1 / 12	14.27	17.97	0.063	36.99	-19.02	15.82	0.038	34.77	-18.96
	16-QAM	707.5	H	298	270	3.52	1 / 24	13.98	17.50	0.056	36.99	-19.49	15.35	0.034	34.77	-19.42
3 MHz	QPSK	700.5	H	293	269	3.39	1 / 7	14.31	17.70	0.059	36.99	-19.29	15.55	0.036	34.77	-19.22
	QPSK	707.5	H	298	270	3.52	1 / 7	14.47	18.00	0.063	36.99	-18.99	15.85	0.038	34.77	-18.92
	QPSK	714.5	H	299	259	3.71	1 / 7	14.12	17.83	0.061	36.99	-19.16	15.68	0.037	34.77	-19.09
	16-QAM	700.5	H	293	269	3.39	1 / 7	14.04	17.43	0.055	36.99	-19.56	15.28	0.034	34.77	-19.49
1.4 MHz	QPSK	699.7	H	293	269	3.33	1 / 0	14.40	17.73	0.059	36.99	-19.26	15.58	0.036	34.77	-19.19
	QPSK	707.5	H	298	270	3.52	1 / 0	14.50	18.02	0.063	36.99	-18.97	15.87	0.039	34.77	-18.90
	QPSK	715.3	H	299	259	3.72	1 / 5	14.17	17.89	0.061	36.99	-19.10	15.74	0.037	34.77	-19.04
	16-QAM	715.3	H	299	259	3.72	1 / 5	13.70	17.41	0.055	36.99	-19.58	15.26	0.034	34.77	-19.51
10 MHz	Opposite Pol.	707.5	V	176	313	3.67	1 / 49	12.99	16.66	0.046	36.99	-20.33	14.51	0.028	34.77	-20.26
	WCP	707.5	H	392	178	3.57	1 / 25	5.28	8.85	0.008	36.99	-28.14	6.70	0.005	34.77	-28.07

Table 7-14. ERP Data (LTE Band 12) – Sub ANT

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	H	237	251	6.09	1 / 49	13.38	19.47	0.089	36.99	-17.52	17.32	0.054	34.77	-17.45
	16-QAM	782.0	H	237	251	6.09	1 / 25	12.72	18.81	0.076	36.99	-18.18	16.66	0.046	34.77	-18.11
5 MHz	QPSK	779.5	H	237	251	5.97	1 / 0	13.57	19.53	0.090	36.99	-17.46	17.38	0.055	34.77	-17.39
	QPSK	782.0	H	237	251	6.09	1 / 12	13.27	19.37	0.086	36.99	-17.62	17.22	0.053	34.77	-17.55
	QPSK	784.5	H	237	251	6.17	1 / 12	13.16	19.33	0.086	36.99	-17.66	17.18	0.052	34.77	-17.59
	16-QAM	784.5	H	237	251	6.17	1 / 0	12.83	19.00	0.079	36.99	-17.99	16.85	0.048	34.77	-17.92
10 MHz	Opposite Pol.	782.0	V	140	184	5.99	1 / 49	12.69	18.68	0.074	36.99	-18.31	16.53	0.045	34.77	-18.24
	WCP	782.0	H	231	103	6.09	1 / 25	12.88	18.97	0.079	36.99	-18.02	16.82	0.048	34.77	-17.95

Table 7-15. ERP Data (LTE Band 13) – Sub ANT

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7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

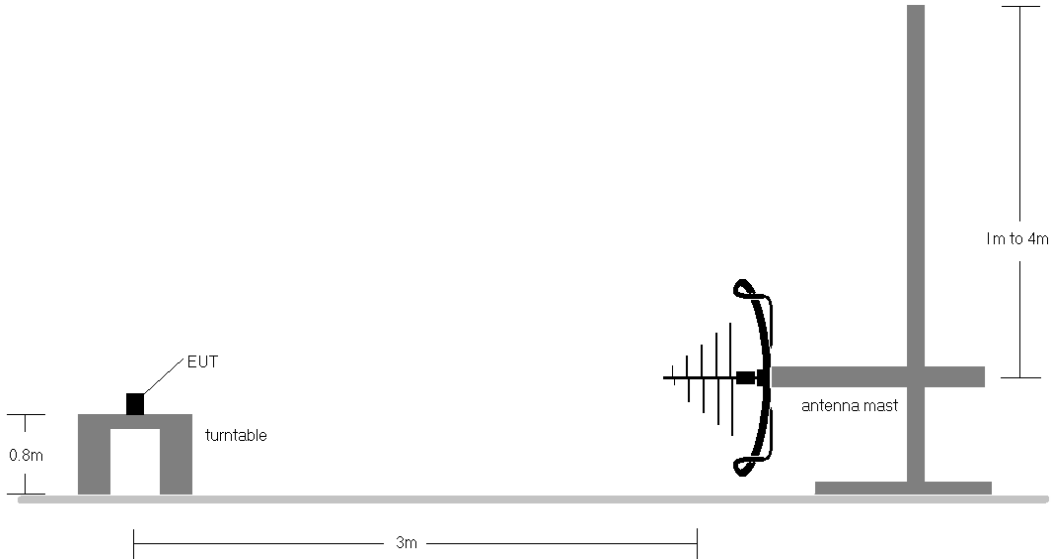


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

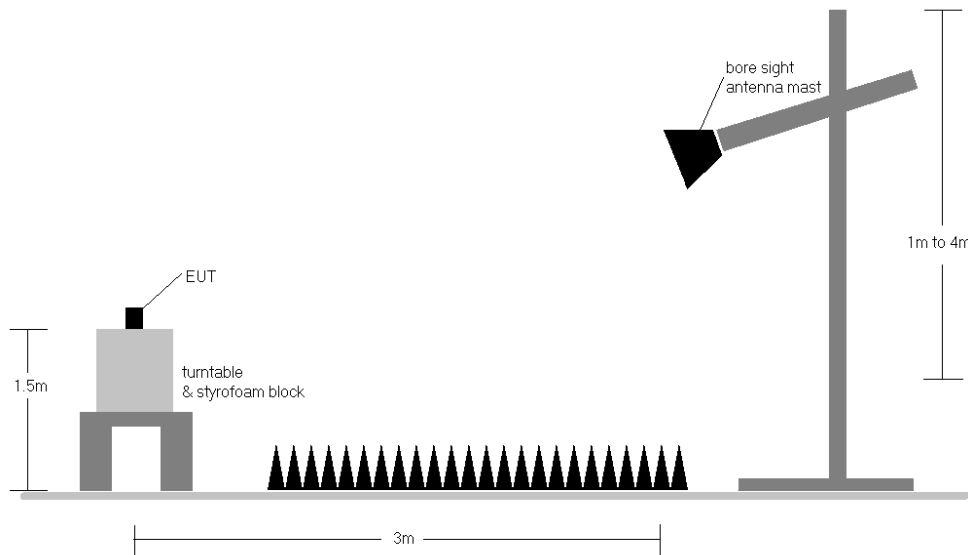


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

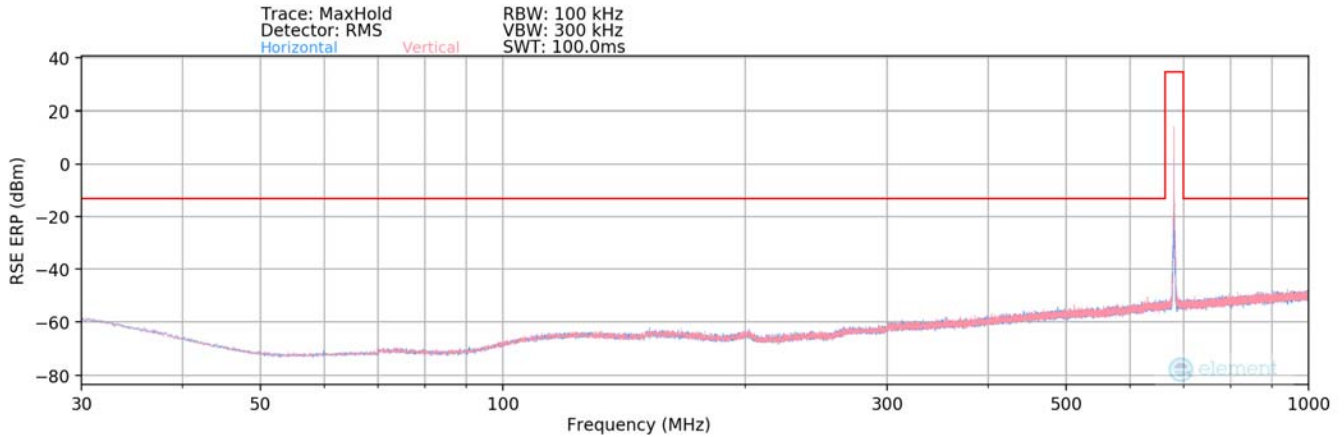
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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) **This unit was tested with its standard battery.**
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 8) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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LTE Band 71



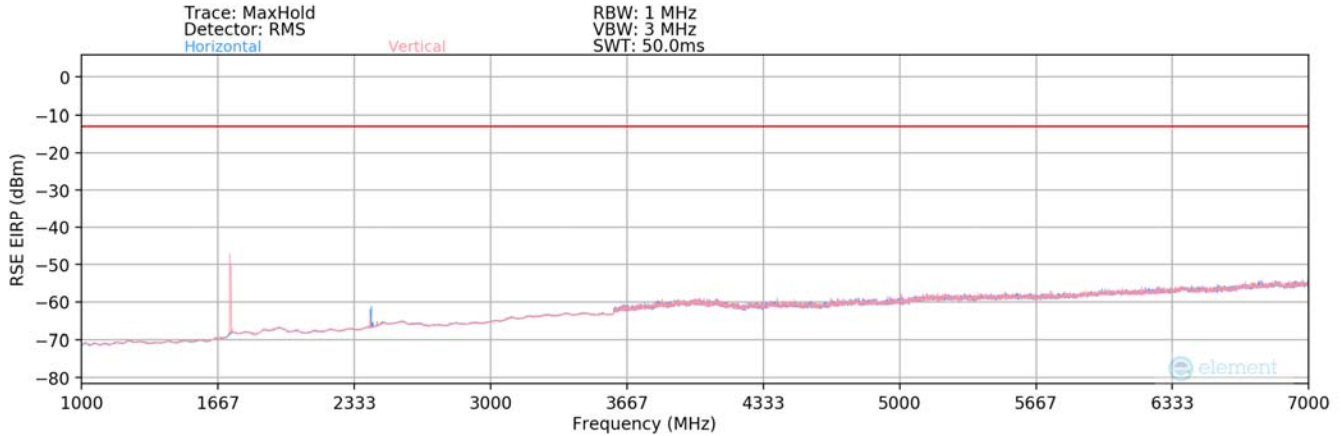
Plot 7-255. Radiated Spurious Plot 30MHz-1GHz (LTE Band 71)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
377.60	V	-	-	-74.46	22.43	54.97	-42.44	-13.00	-29.44

Table 7-16. Radiated Spurious Data (LTE Band 71)

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Plot 7-256. Radiated Spurious Plot (LTE Band 71)

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	V	103	194	-77.75	-0.04	29.21	-66.04	-13.00	-53.04
2019.00	V	-	-	-79.74	4.00	31.26	-64.00	-13.00	-51.00
2692.00	V	-	-	-80.11	5.52	32.41	-62.85	-13.00	-49.85
3365.00	V	-	-	-81.01	7.31	33.30	-61.96	-13.00	-48.96

Table 7-17. Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	V	143	191	-78.25	0.03	28.78	-66.47	-13.00	-53.47
2041.50	V	-	-	-79.62	3.45	30.83	-64.43	-13.00	-51.43
2722.00	V	-	-	-80.41	5.90	32.49	-62.76	-13.00	-49.76
3402.50	V	-	-	-81.02	7.13	33.11	-62.14	-13.00	-49.14

Table 7-18. Radiated Spurious Data (LTE Band 71 – Mid Channel)

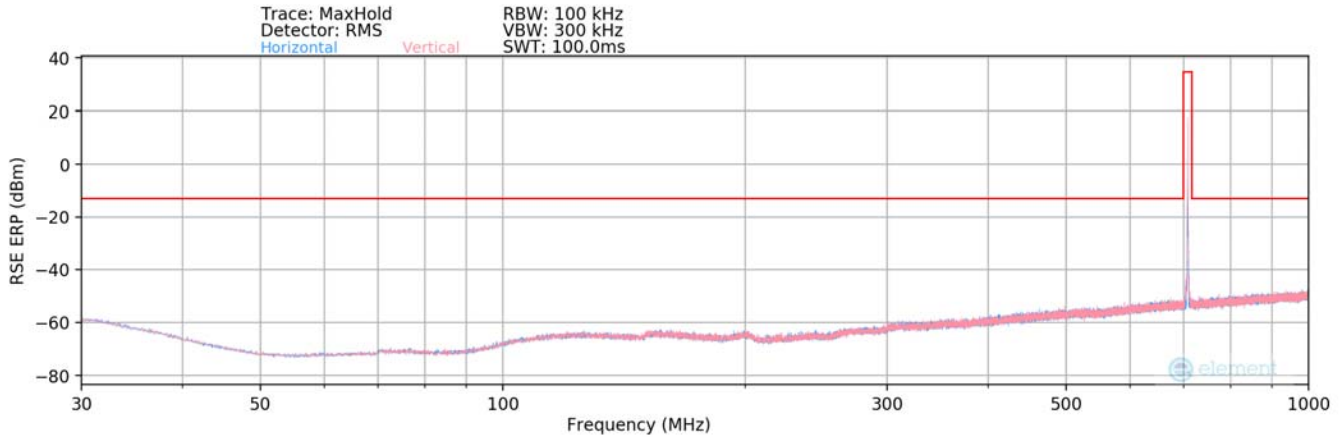
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	V	-	-	-76.08	-0.03	30.89	-64.36	-13.00	-51.36
2064.00	V	-	-	-79.38	3.51	31.13	-64.12	-13.00	-51.12
2752.00	V	-	-	-80.37	5.46	32.09	-63.16	-13.00	-50.16

Table 7-19. Radiated Spurious Data (LTE Band 71 – High Channel)

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LTE Band 12/17 – Main ANT



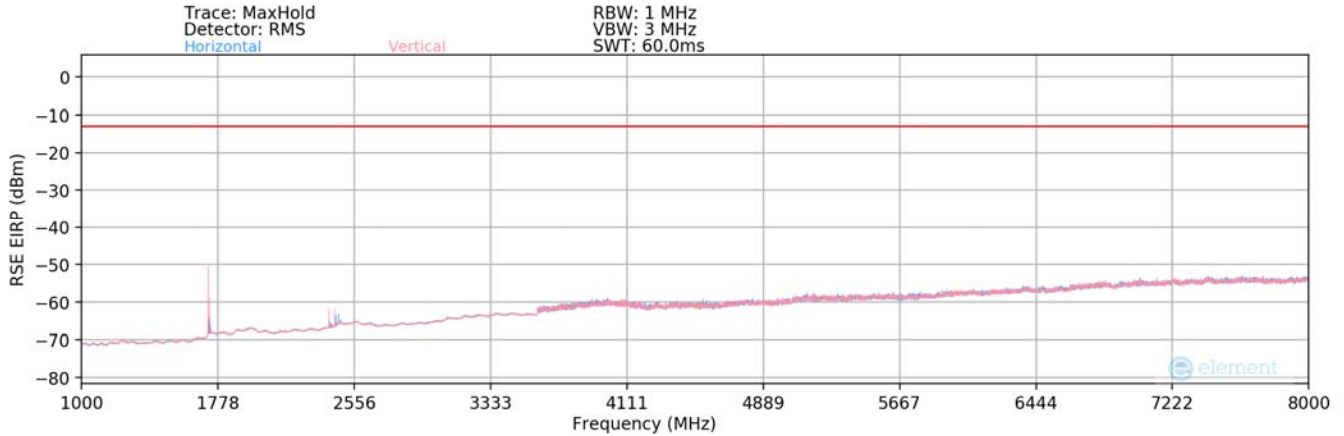
Plot 7-257. Radiated Spurious Plot 30MHz-1GHz (LTE Band 12/17) – Main ANT

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
485.90	V	-	-	-84.52	25.26	47.74	-49.67	-13.00	-36.67

Table 7-20. Radiated Spurious Data (LTE Band 12/17) – Main ANT

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-258. Radiated Spurious Plot (LTE Band 12/17) – Main ANT

Bandwidth (MHz):	10
Frequency (MHz):	704
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.00	V	123	267	-73.87	-0.24	32.89	-62.36	-13.00	-49.36
2112.00	V	-	-	-79.96	4.36	31.40	-63.85	-13.00	-50.85
2816.00	V	-	-	-80.58	6.13	32.55	-62.71	-13.00	-49.71
3520.00	V	-	-	-80.97	7.51	33.54	-61.72	-13.00	-48.72

Table 7-21. Radiated Spurious Data (LTE Band 12/17 – Low Channel) – Main ANT

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	V	127	192	-75.42	-0.34	31.24	-64.02	-13.00	-51.02
2122.50	V	-	-	-79.94	4.34	31.40	-63.86	-13.00	-50.86
2830.00	V	-	-	-80.39	6.32	32.93	-62.33	-13.00	-49.33
3537.50	V	-	-	-80.74	7.37	33.63	-61.63	-13.00	-48.63

Table 7-22. Radiated Spurious Data (LTE Band 12/17 – Mid Channel) – Main ANT

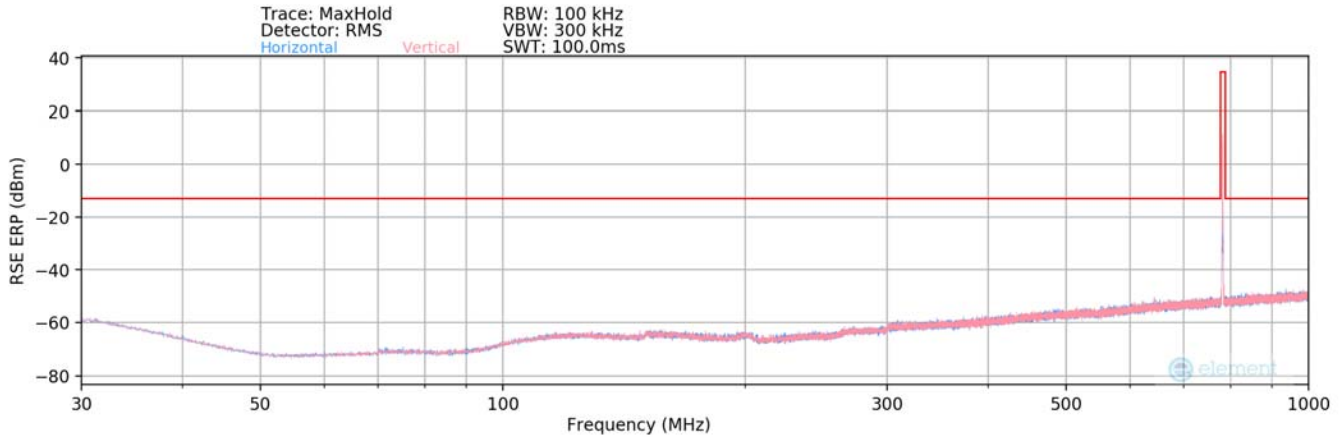
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	V	137	274	-75.73	-0.22	31.05	-64.20	-13.00	-51.20
2133.00	V	-	-	-80.09	4.22	31.13	-64.13	-13.00	-51.13
2844.00	V	-	-	-80.16	6.04	32.88	-62.38	-13.00	-49.38
3555.00	V	-	-	-80.77	7.49	33.72	-61.54	-13.00	-48.54

Table 7-23. Radiated Spurious Data (LTE Band 12/17 – High Channel) – Main ANT

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 169 of 198

LTE Band 13 – Main ANT



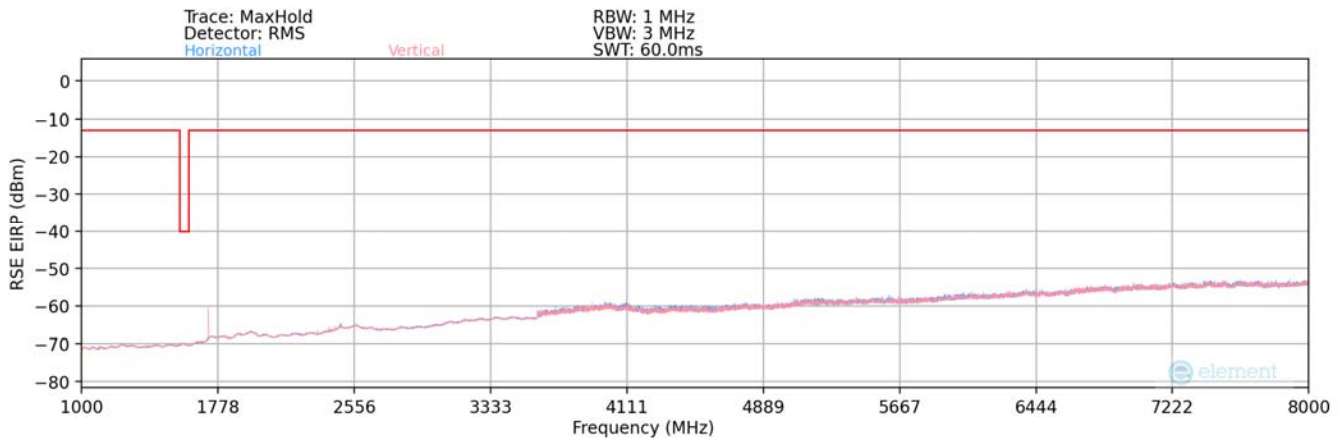
Plot 7-259. Radiated Spurious Plot 30MHz-1GHz (LTE Band 13) – Main ANT

Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1/25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
	V	-	-	-97.05	20.03	29.98	-65.27	-13.00	-52.27

Table 7-24. Radiated Spurious Data (LTE Band 13) – Main ANT

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 170 of 198



Plot 7-260. Radiated Spurious Plot (LTE Band 13) – Main ANT

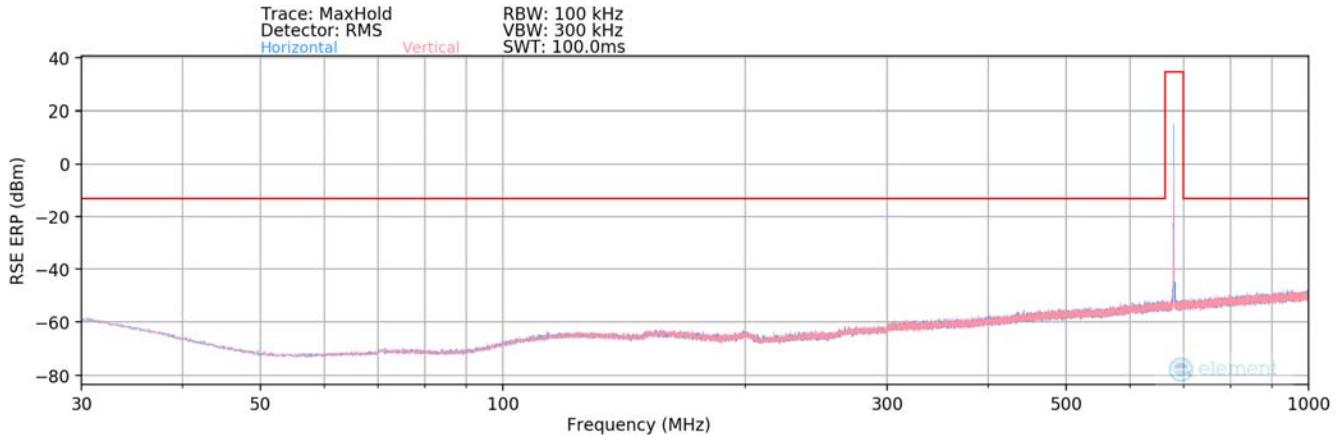
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	V	-	-	-77.17	-0.91	28.92	-66.34	-40.00	-26.34
2346.00	V	-	-	-77.31	2.56	32.25	-63.00	-13.00	-50.00
3128.00	V	-	-	-77.24	4.26	34.02	-61.24	-13.00	-48.24

Table 7-25. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Main ANT

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 171 of 198

NR Band n71



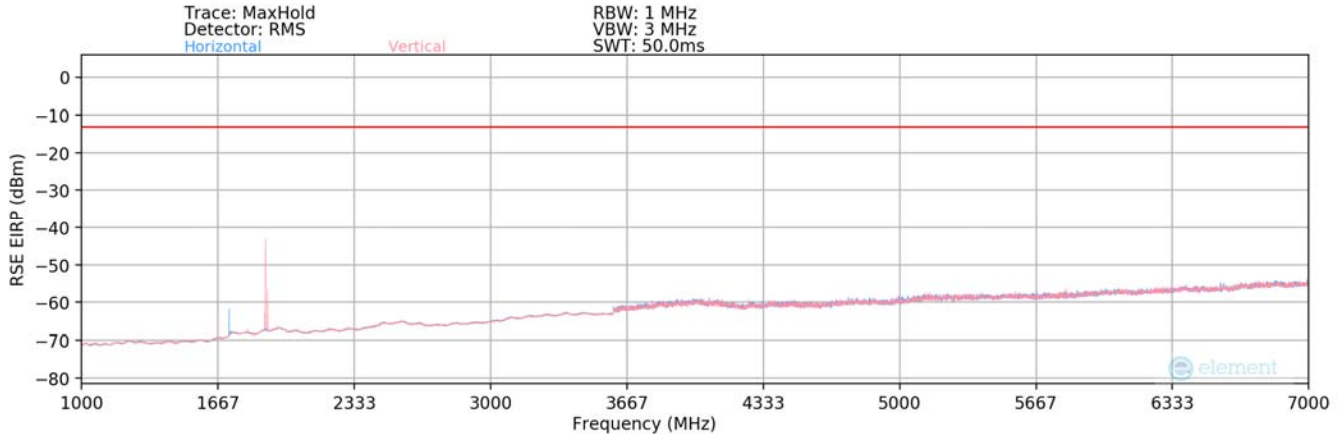
Plot 7-261. Radiated Spurious Plot 30MHz-1GHz (NR Band n71)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
504.00	H	-	-	-84.66	25.49	47.83	-49.58	-13.00	-36.58

Table 7-26. Radiated Spurious Data (NR Band n71)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 172 of 198



Plot 7-262. Radiated Spurious Plot (NR Band n71)

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	-	-	-75.09	-9.83	22.08	-73.17	-13.00	-60.17
2019.00	H	-	-	-76.16	-6.05	24.79	-70.46	-13.00	-57.46
2692.00	H	-	-	-76.50	-4.43	26.07	-69.19	-13.00	-56.19

Table 7-27. Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	-	-	-74.72	-9.86	22.42	-72.84	-13.00	-59.84
2041.50	H	400	143	-74.78	-6.15	26.07	-69.19	-13.00	-56.19
2722.00	H	-	-	-75.64	-4.52	26.84	-68.42	-13.00	-55.42
3402.50	H	-	-	-76.65	-1.48	28.87	-66.39	-13.00	-53.39
4083.00	H	-	-	-76.52	0.59	31.07	-64.19	-13.00	-51.19

Table 7-28. Radiated Spurious Data (NR Band n71 – Mid Channel)

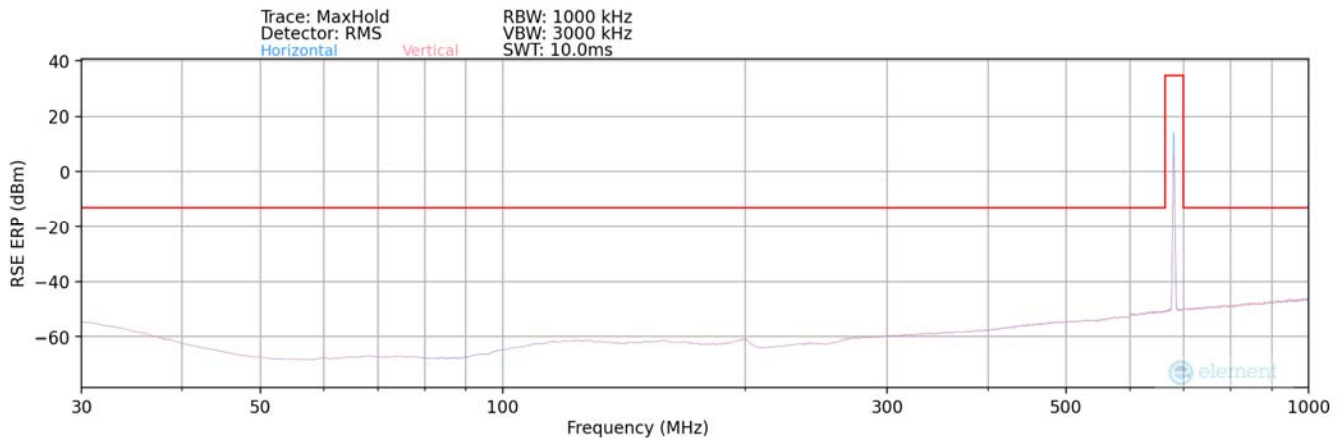
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 173 of 198

Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	H	-	-	-75.09	-9.70	22.21	-73.05	-13.00	-60.05
2064.00	H	400	168	-74.82	-6.22	25.96	-69.30	-13.00	-56.30
2752.00	H	-	-	-76.01	-4.33	26.66	-68.60	-13.00	-55.60
3440.00	H	-	-	-76.52	-1.57	28.91	-66.35	-13.00	-53.35
4128.00	H	-	-	-77.30	0.34	30.04	-65.22	-13.00	-52.22

Table 7-29. Radiated Spurious Data (NR Band n71 – High Channel)

EN-DC n71-B2



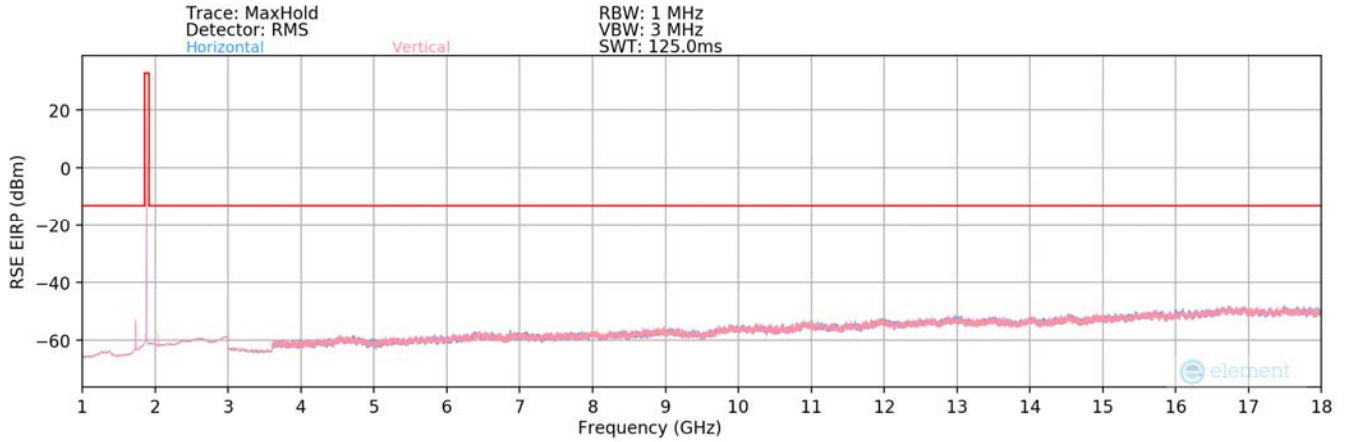
Plot 7-263. Radiated Spurious Plot (EN-DC n71-B2)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1/50
Mode:	EN-DC
Anchor Band:	LTE Band 2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
519.00	V	-	-	-91.20	25.98	41.78	-55.63	-13.00	-42.63

Table 7-30. Radiated Spurious Data (EN-DC n71-B2)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 174 of 198



Plot 7-264. Radiated Spurious Plot (EN-DC n71-B2)

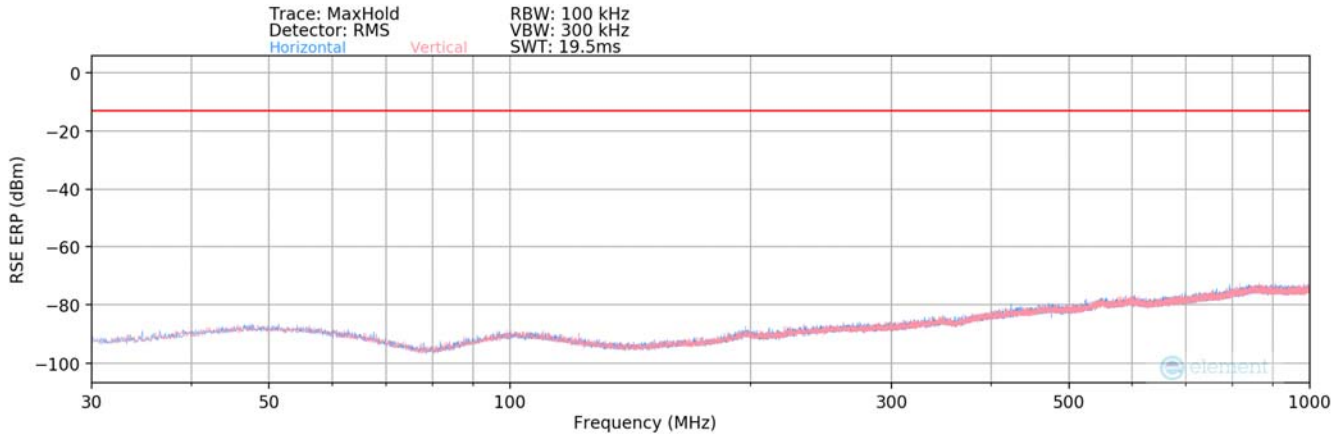
Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1/50
Mode:	EN-DC
Anchor Band:	LTE Band 2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	V	-	-	-77.79	-2.67	26.54	-68.72	-13.00	-55.72
1718.50	V	-	-	-79.69	-2.45	24.86	-70.40	-13.00	-57.40
3402.50	V	392	196	-77.82	2.70	31.88	-63.38	-13.00	-50.38
3760.00	V	-	-	-78.80	-26.97	1.23	-94.03	-13.00	-81.03

Table 7-31. Radiated Spurious Data (EN-DC n71-B2)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 175 of 198

WCDMA AWS



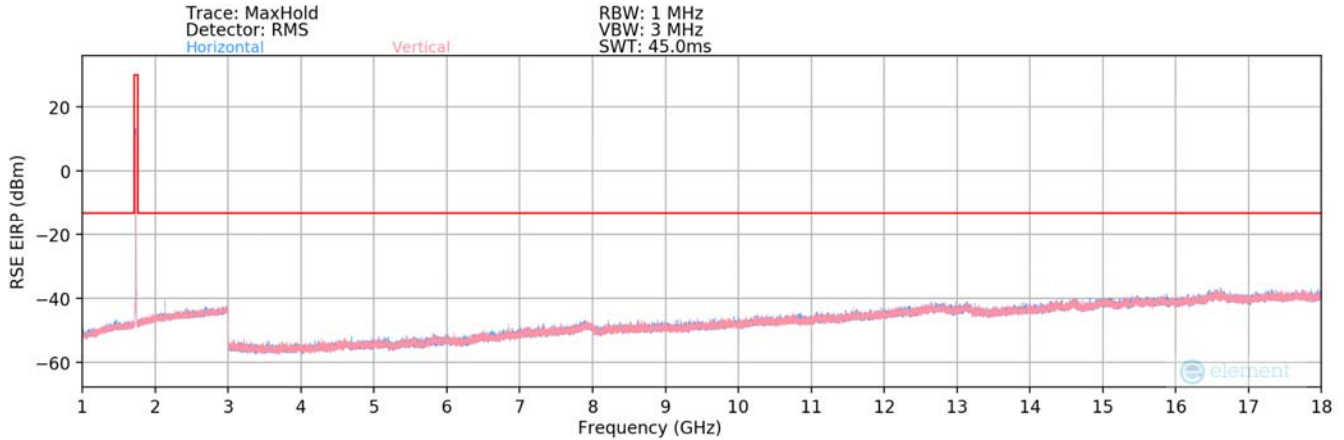
Plot 7-265. Radiated Spurious Plot (WCDMA AWS)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
518.00	V	-	-	-89.77	25.67	42.90	-54.51	-13.00	-41.51

7-32. Radiated Spurious Data (WCDMA AWS)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 176 of 198



Plot 7-266. Radiated Spurious Plot (WCDMA AWS)

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.80	V	-	-	-78.08	2.83	31.75	-63.51	-13.00	-50.51
5137.20	V	-	-	-79.13	4.87	32.74	-62.52	-13.00	-49.52
6849.60	V	-	-	-80.55	7.63	34.08	-61.18	-13.00	-48.18

7-33. Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.20	V	-	-	-77.82	2.71	31.89	-63.37	-13.00	-50.37
5197.80	V	-	-	-79.61	5.08	32.47	-62.79	-13.00	-49.79
6930.40	V	-	-	-80.14	7.35	34.21	-61.05	-13.00	-48.05

Table 7-34. Radiated Spurious Data (WCDMA AWS – Mid Channel)

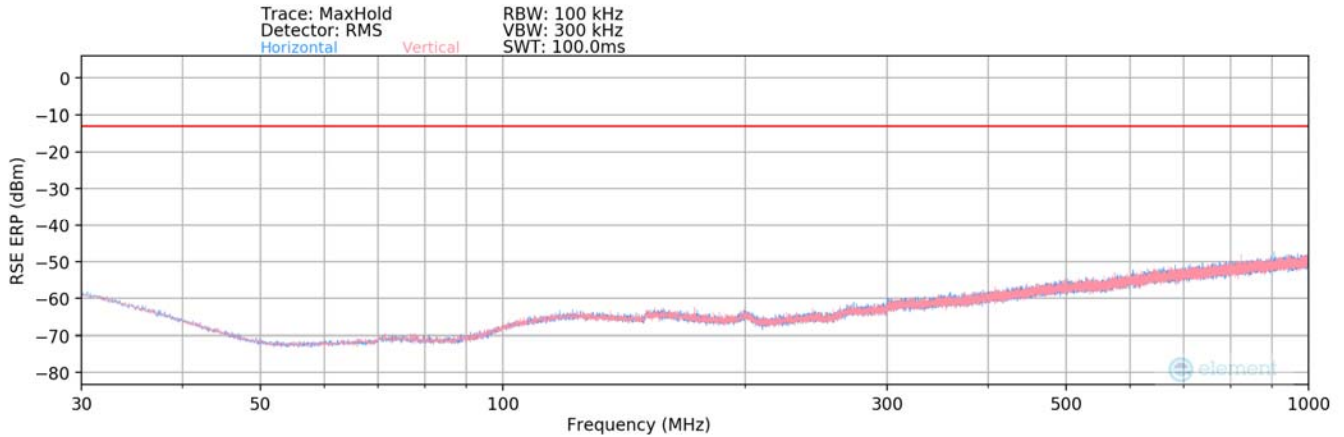
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.20	V	-	-	-77.48	2.45	31.97	-63.29	-13.00	-50.29
5257.80	V	-	-	-79.22	4.79	32.57	-62.69	-13.00	-49.69
7010.40	V	-	-	-79.32	6.76	34.44	-60.81	-13.00	-47.81

Table 7-35. Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4



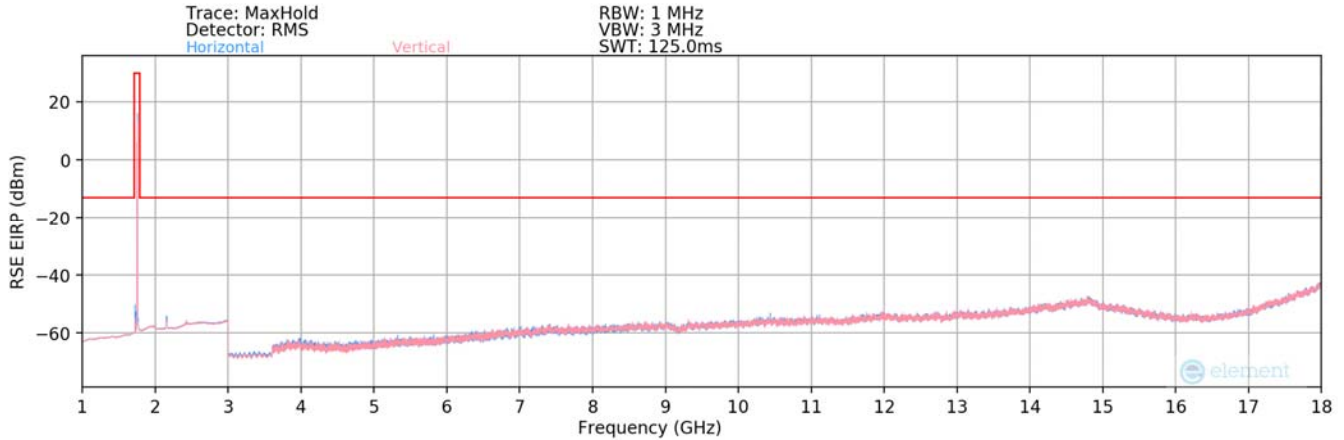
Plot 7-267. Radiated Spurious Plot (LTE Band 66/4)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
822.00	V	-	-	-75.46	29.94	61.48	-35.93	-13.00	-22.93

Table 7-36. Radiated Spurious Data (LTE Band 66/4)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 178 of 198



Plot 7-268. Radiated Spurious Plot (LTE Band 66/4)

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	V	-	-	-78.63	5.62	33.99	-61.27	-13.00	-48.27
5160.00	V	-	-	-78.77	7.55	35.78	-59.48	-13.00	-46.48
6880.00	V	-	-	-80.70	11.63	37.93	-57.33	-13.00	-44.33

Table 7-37. Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	-	-	-78.46	5.47	34.01	-61.25	-13.00	-48.25
5235.00	V	279	331	-76.96	7.49	37.53	-57.73	-13.00	-44.73
6980.00	V	-	-	-79.59	11.24	38.65	-56.61	-13.00	-43.61
8725.00	V	-	-	-80.88	13.92	40.04	-55.22	-13.00	-42.22
10470.00	V	-	-	-81.87	16.63	41.76	-53.49	-13.00	-40.49

Table 7-38. Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

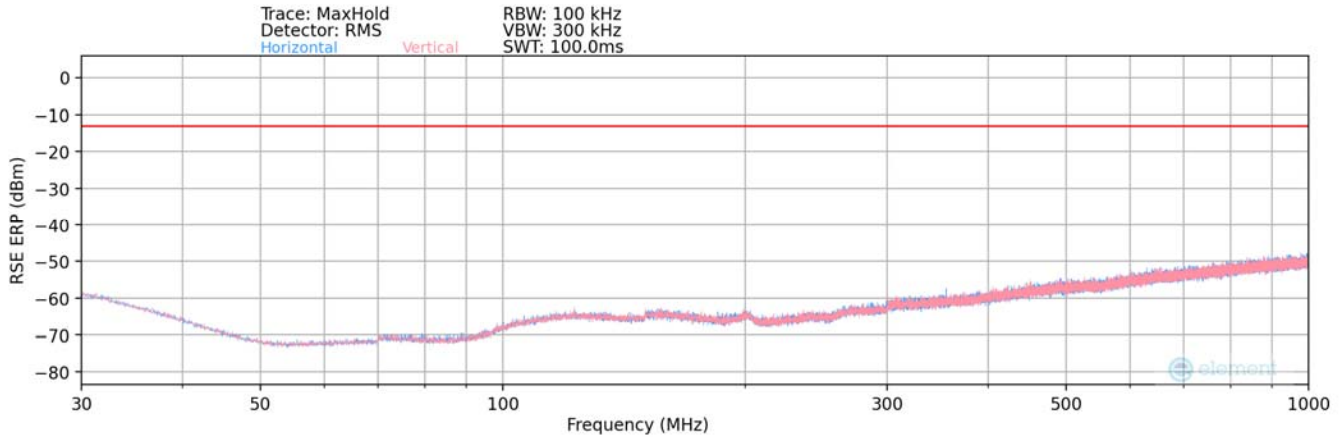
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	V	172	25	-78.17	5.45	34.28	-60.98	-13.00	-47.98
5310.00	V	108	318	-77.54	7.83	37.29	-57.97	-13.00	-44.97
7080.00	V	-	-	-80.24	11.81	38.57	-56.69	-13.00	-43.69
8850.00	V	-	-	-80.89	14.07	40.18	-55.08	-13.00	-42.08
10620.00	V	-	-	-81.46	16.54	42.08	-53.18	-13.00	-40.18

Table 7-39. Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 179 of 198

NR Band n66



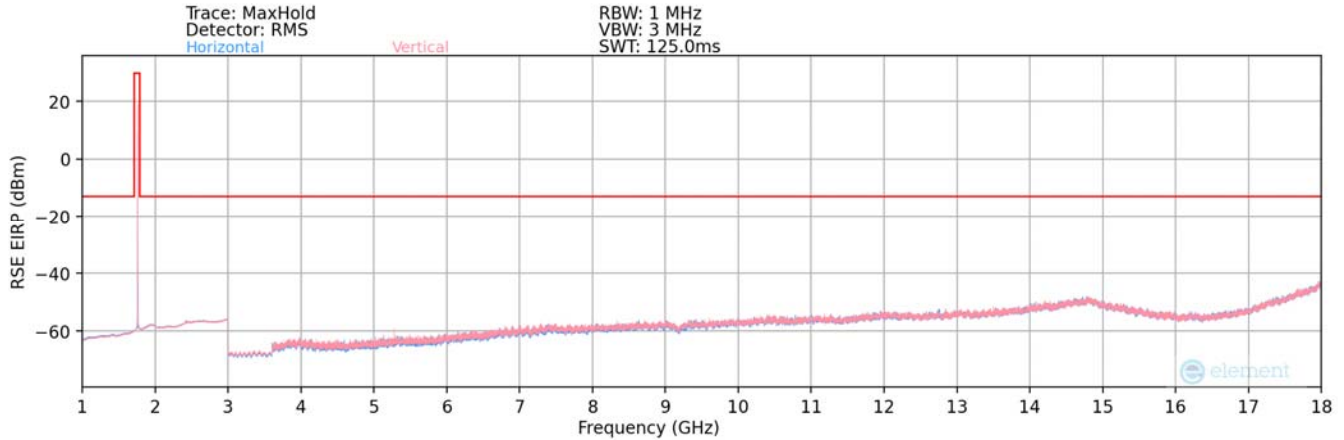
Plot 7-269. Radiated Spurious Plot (NR Band n66)

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1/108
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
	H	-	-	-97.15	22.13	31.98	-63.27	-13.00	-50.27

Table 7-40. Radiated Spurious Data (NR Band n66)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 180 of 198



Plot 7-270. Radiated Spurious Plot (NR Band n66)

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 108
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	H	107	204	-75.42	-0.52	31.06	-64.20	-13.00	-51.20
5160.00	H	112	35	-79.56	2.11	29.55	-65.71	-13.00	-52.71
6880.00	H	-	-	-81.04	5.79	31.75	-63.51	-13.00	-50.51
8600.00	H	-	-	-81.60	8.93	34.33	-60.92	-13.00	-47.92
10320.00	H	-	-	-81.78	11.73	36.95	-58.31	-13.00	-45.31

Table 7-41. Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 108
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	107	189	-76.50	-0.66	29.84	-65.42	-13.00	-52.42
5235.00	H	-	-	-76.90	2.89	32.99	-62.26	-13.00	-49.26
6980.00	H	-	-	-79.61	6.51	33.90	-61.36	-13.00	-48.36
8725.00	H	-	-	-80.94	8.74	34.80	-60.45	-13.00	-47.45

Table 7-42. Radiated Spurious Data (NR Band n66 – Mid Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 181 of 198

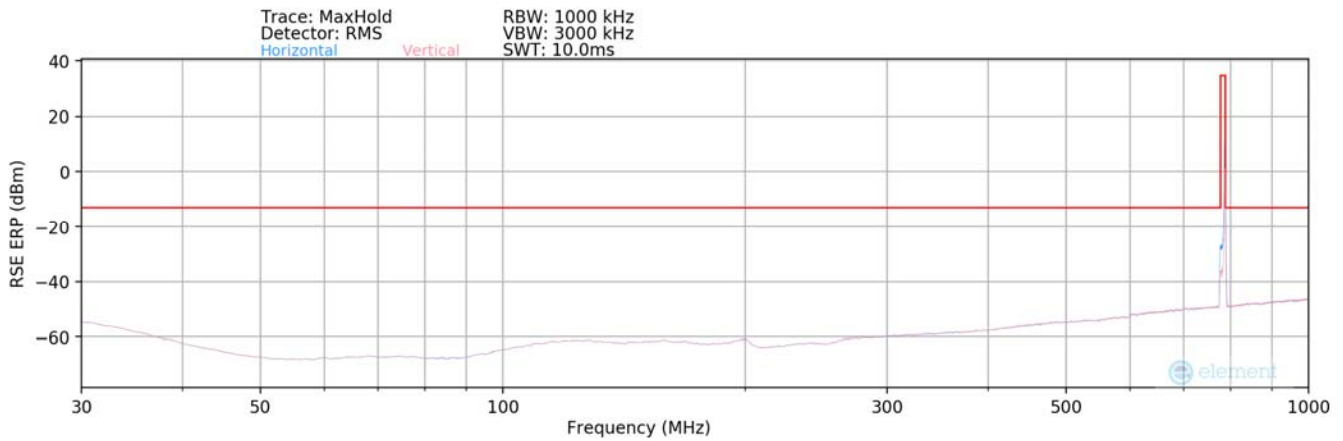


Bandwidth (MHz):	20
Frequency (MHz):	1760
RB / Offset:	1 / 108
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.00	H	-	-	-76.92	-0.95	29.13	-66.13	-13.00	-53.13
5280.00	H	107	88	-77.15	2.39	32.24	-63.02	-13.00	-50.02
7040.00	H	-	-	-80.03	6.28	33.25	-62.00	-13.00	-49.00
8800.00	H	-	-	-82.47	8.79	33.32	-61.93	-13.00	-48.93
10560.00	H	-	-	-83.28	11.41	35.13	-60.13	-13.00	-47.13

Table 7-43. Radiated Spurious Data (NR Band n66 – High Channel)

EN-DC n66-B13



Plot 7-271. Radiated Spurious Plot (EN-DC n66-B13)

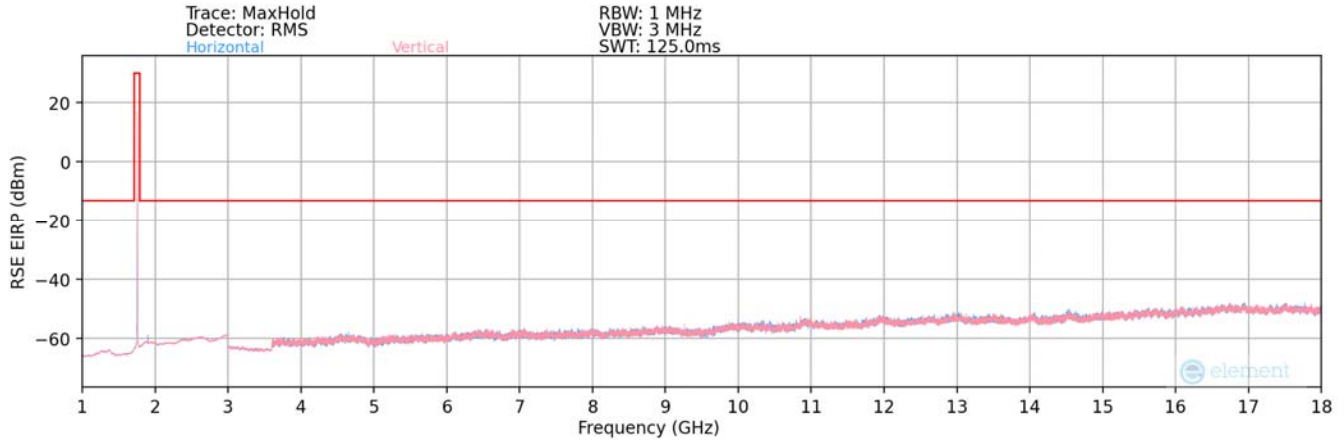
Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1/50
Mode:	EN-DC
Anchor Band:	LTE Band 13

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
977.00	H	-	-	-99.00	31.78	39.78	-57.63	-13.00	-44.63

Table 7-44. Radiated Spurious Data (EN-DC n66-B13)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 182 of 198

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Plot 7-272. Radiated Spurious Plot (EN-DC n66-B13)

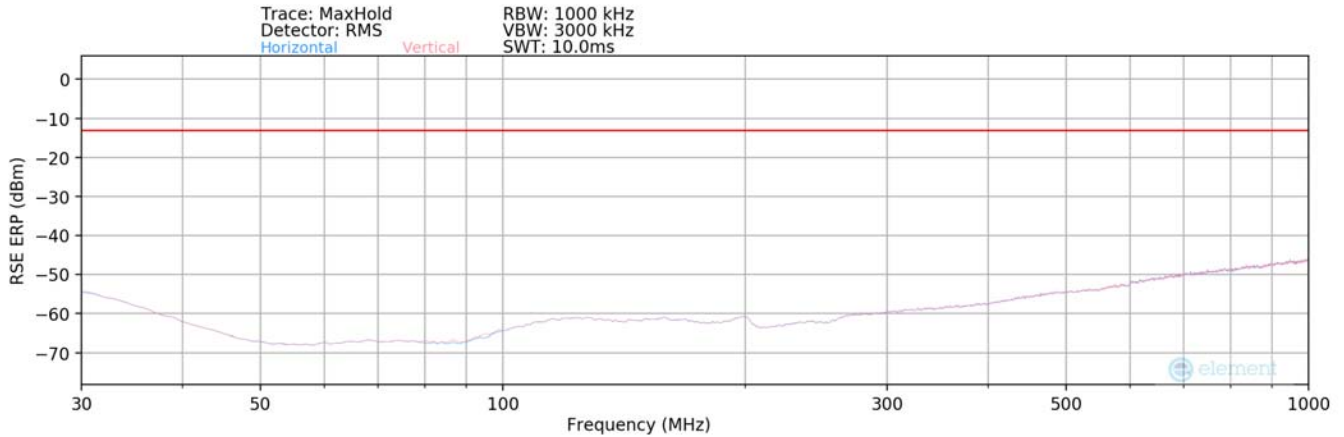
Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1/50
Mode:	EN-DC
Anchor Band:	LTE Band 13

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	-	-	-76.80	-2.67	27.53	-67.73	-13.00	-54.73
2041.50	H	-	-	-77.95	-0.69	28.36	-66.90	-13.00	-53.90
2809.50	H	-	-	-77.65	0.58	29.93	-65.33	-13.00	-52.33

Table 7-45. Radiated Spurious Data (EN-DC n66-B13)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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EN-DC n66-B2



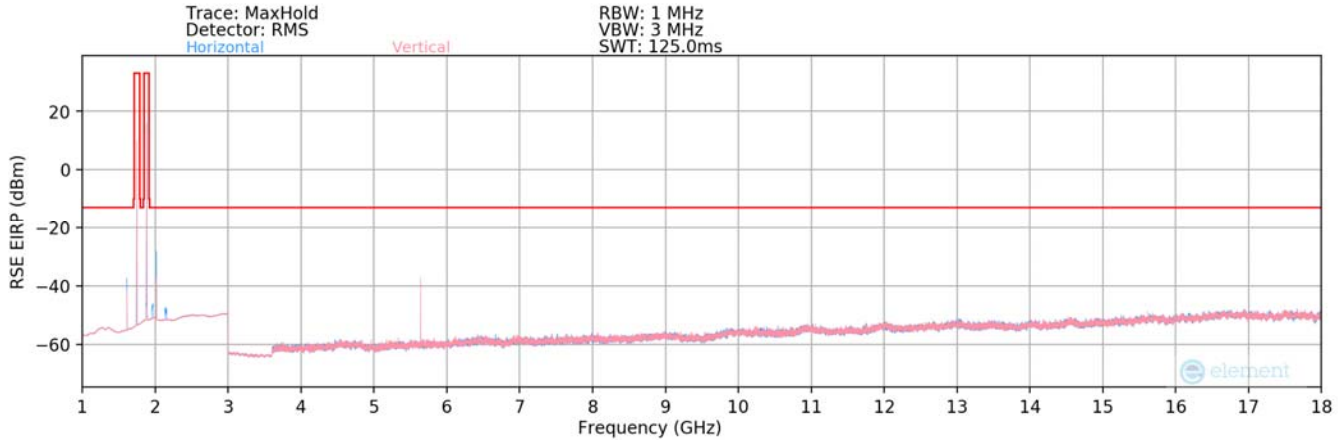
Plot 7-273. Radiated Spurious Plot (EN-DC n66-B2)

Bandwidth (MHz):	20 & 20
Frequency (MHz):	1745 & 1880
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	LTE Band 2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
135.0	H	-	-	-96.53	20.09	30.56	-66.84	-13.00	-53.84
270.0	H	-	-	-95.95	20.60	31.65	-65.76	-13.00	-52.76

Table 7-46. Radiated Spurious Data (EN-DC n66-B2)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-274. Radiated Spurious Plot (EN-DC n66-B2)

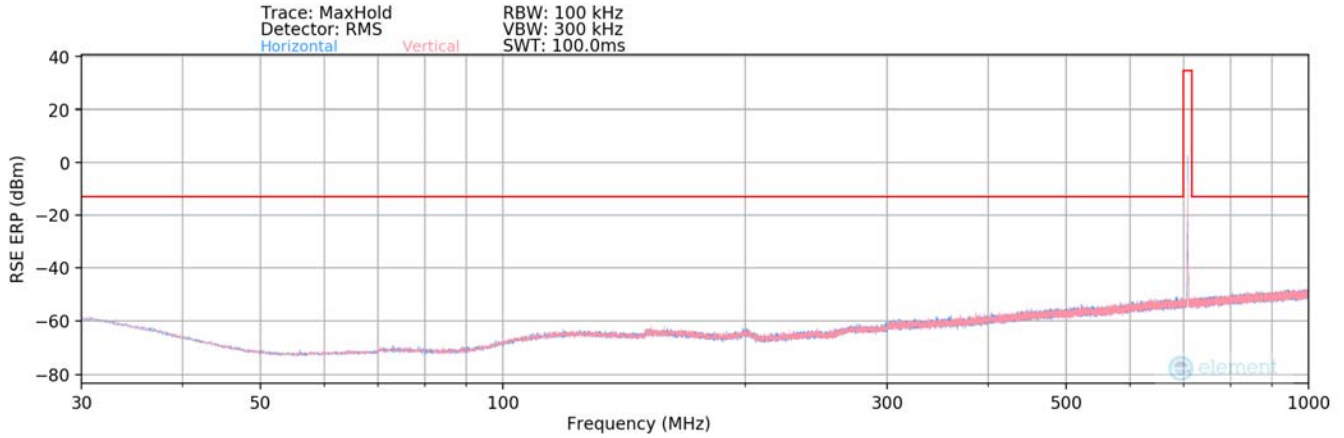
Bandwidth (MHz):	20 & 20
Frequency (MHz):	1745 & 1880
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	LTE Band 2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1610.0	H	205	154	-53.00	5.45	59.45	-35.81	-13.00	-22.81
2015.0	H	209	224	-43.50	9.39	72.89	-22.37	-13.00	-9.37
3625.0	H	-	-	-77.87	2.76	31.89	-63.37	-13.00	-50.37
5370.0	H	-	-	-78.38	4.87	33.49	-61.76	-13.00	-48.76
5640.0	V	253	8	-63.27	5.48	49.21	-46.05	-13.00	-33.05
8860.0	H	-	-	-78.98	8.59	36.61	-58.65	-13.00	-45.65

Table 7-47. Radiated Spurious Data (EN-DC n66-B2)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12/17 – Sub ANT



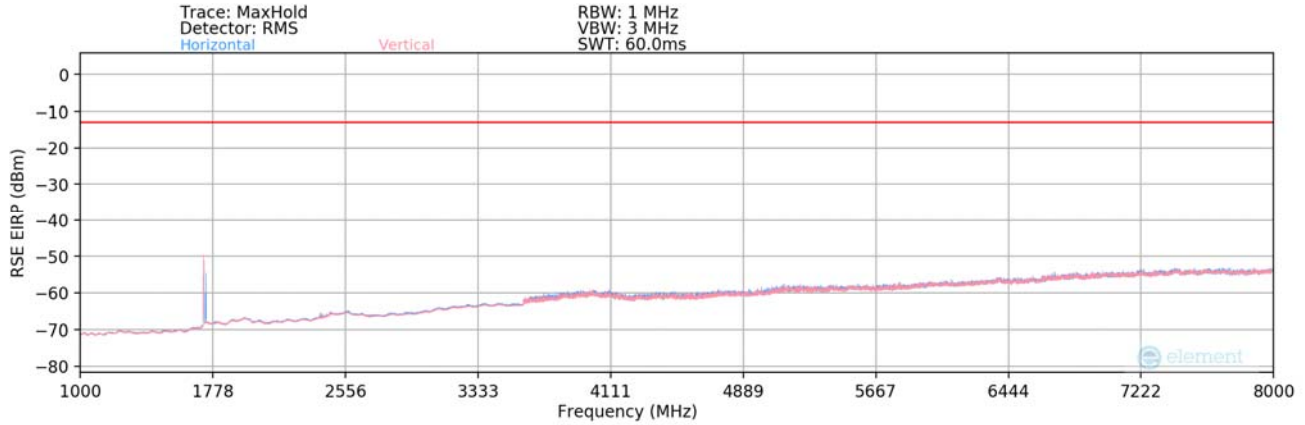
Plot 7-275. Radiated Spurious Plot 30MHz-1GHz (LTE Band 12/17) – Sub ANT

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
614.80	V	-	-	-74.11	26.79	59.68	-37.73	-13.00	-24.73

Table 7-48. Radiated Spurious Data (LTE Band 12/17) – Sub ANT

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-276. Radiated Spurious Plot (LTE Band 12/17) – Sub ANT

Bandwidth (MHz):	10
Frequency (MHz):	704
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.00	V	131	263	-74.87	-7.06	25.07	-70.19	-13.00	-57.19
2112.00	V	-	-	-75.77	-4.08	27.15	-68.10	-13.00	-55.10
2816.00	V	-	-	-76.23	-2.49	28.28	-66.98	-13.00	-53.98
3520.00	V	-	-	-76.46	0.74	31.28	-63.98	-13.00	-50.98

Table 7-49. Radiated Spurious Data (LTE Band 12/17 – Low Channel) – Sub ANT

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	V	180	214	-74.60	-7.07	25.33	-69.93	-13.00	-56.93
2122.50	V	-	-	-75.46	-4.01	27.53	-67.72	-13.00	-54.72
2830.00	V	-	-	-76.05	-2.36	28.59	-66.67	-13.00	-53.67
3537.50	V	-	-	-76.35	1.02	31.67	-63.59	-13.00	-50.59

Table 7-50. Radiated Spurious Data (LTE Band 12/17 – Mid Channel) – Sub ANT

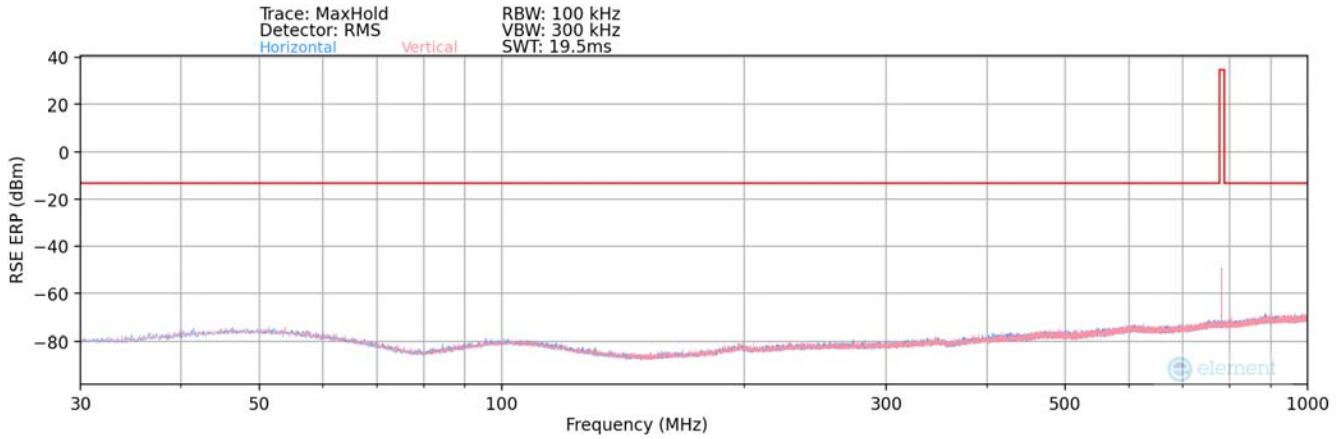
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	V	169	194	-73.39	-7.11	26.50	-68.75	-13.00	-55.75
2133.00	V	400	309	-75.30	-3.90	27.80	-67.46	-13.00	-54.46
2844.00	V	-	-	-76.05	-2.22	28.73	-66.53	-13.00	-53.53
3555.00	V	-	-	-76.63	1.20	31.57	-63.68	-13.00	-50.68
4266.00	V	-	-	-77.19	1.94	31.75	-63.51	-13.00	-50.51

Table 7-51. Radiated Spurious Data (LTE Band 12/17 – High Channel) – Sub ANT

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13 – Sub ANT



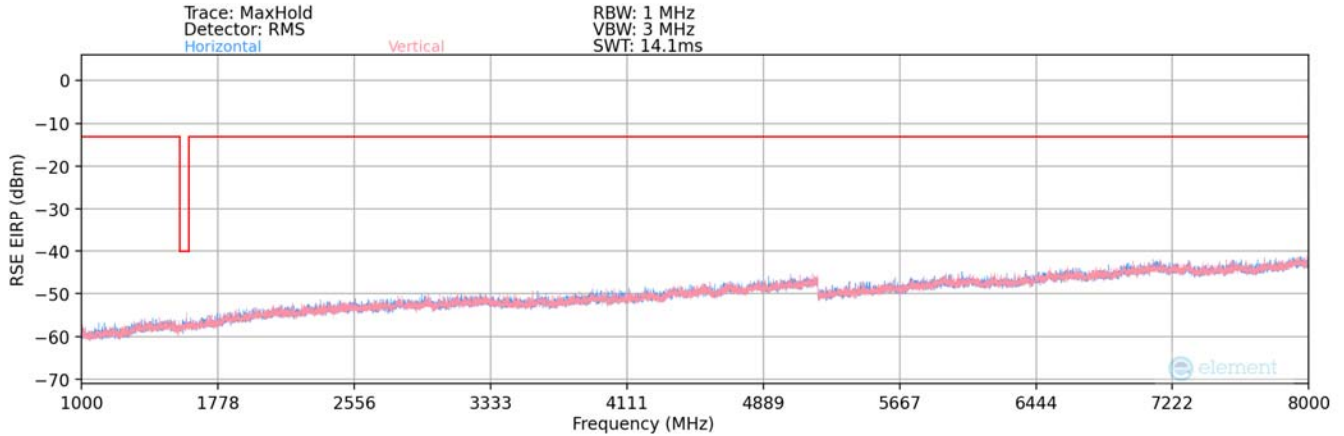
Plot 7-277. Radiated Spurious Plot 30MHz-1GHz (LTE Band 13) – Sub ANT

Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
490.00	V	-	-	-78.56	-9.93	18.51	-78.89	-13.00	-65.89

Table 7-52. Radiated Spurious Data (LTE Band 13) – Sub ANT

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-278. Radiated Spurious Plot (LTE Band 13) – Sub ANT

Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	V	-	-	-77.84	0.09	29.25	-66.01	-40.00	-26.01
2346.00	V	-	-	-79.17	4.53	32.36	-62.90	-13.00	-49.90
3128.00	V	-	-	-79.74	6.78	34.04	-61.22	-13.00	-48.22

Table 7-53. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Sub ANT

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

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Frequency Stability / Temperature Variation

LTE Band 71					
Operating Frequency (Hz):		680,500,000			
Ref. Voltage (VDC):		4.28			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	680,593,914	54	0.0000079
		- 20	680,595,242	1,382	0.0002031
		- 10	680,594,744	884	0.0001299
		0	680,592,947	-913	-0.0001341
		+ 10	680,594,333	473	0.0000695
		+ 20 (Ref)	680,593,860	0	0.0000000
		+ 30	680,592,533	-1,327	-0.0001950
		+ 40	680,594,478	618	0.0000908
Battery Endpoint	3.69	+ 20	680,592,556	-1,304	-0.0001916

Table 7-54. LTE Band 71 Frequency Stability Data

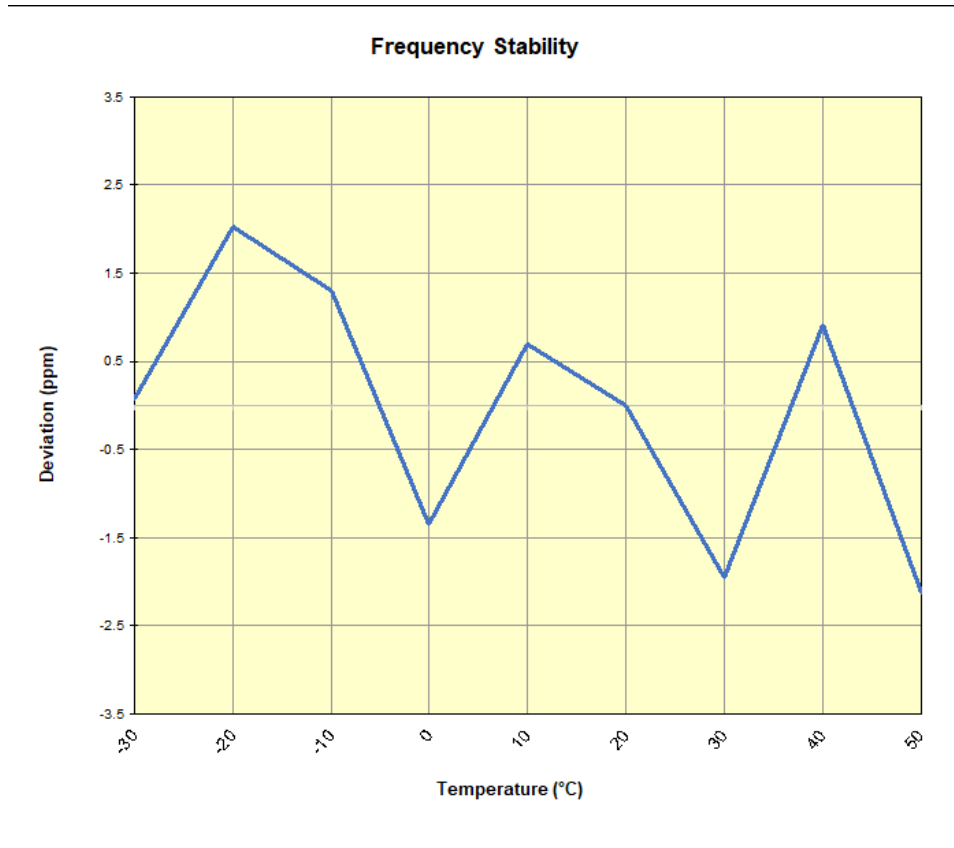


Table 7-55. LTE Band 71 Frequency Stability Chart

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 12/17					
		Operating Frequency (Hz):		707,500,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	707,591,869	938	0.0001326
		- 20	707,591,484	553	0.0000782
		- 10	707,591,941	1,010	0.0001427
		0	707,591,344	413	0.0000584
		+ 10	707,589,439	-1,492	-0.0002109
		+ 20 (Ref)	707,590,931	0	0.0000000
		+ 30	707,590,086	-845	-0.0001194
		+ 40	707,589,606	-1,325	-0.0001873
Battery Endpoint	3.69	+ 20	707,591,564	633	0.0000895

Table 7-56. LTE Band 12/17 Frequency Stability Data – Main ANT

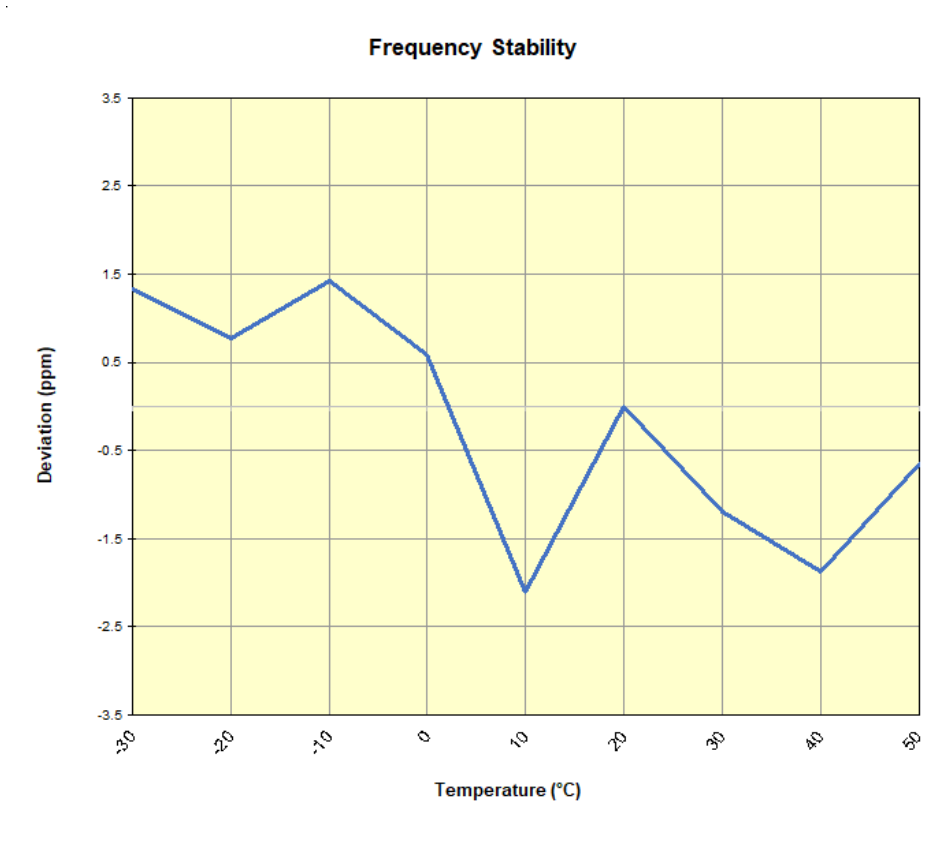


Table 7-9. LTE Band 12/17 Frequency Stability Chart

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 13					
Operating Frequency (Hz):		782,000,000			
Ref. Voltage (VDC):		4.28			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	782,091,157	1,215	0.0001554
		- 20	782,090,049	107	0.0000137
		- 10	782,091,738	1,796	0.0002296
		0	782,090,428	486	0.0000621
		+ 10	782,091,188	1,246	0.0001593
		+ 20 (Ref)	782,089,942	0	0.0000000
		+ 30	782,089,159	-783	-0.0001001
		+ 40	782,090,486	544	0.0000696
Battery Endpoint	3.69	+ 20	782,091,584	1,642	0.0002100

Table 7-57. LTE Band 13 Frequency Stability Data – Main ANT

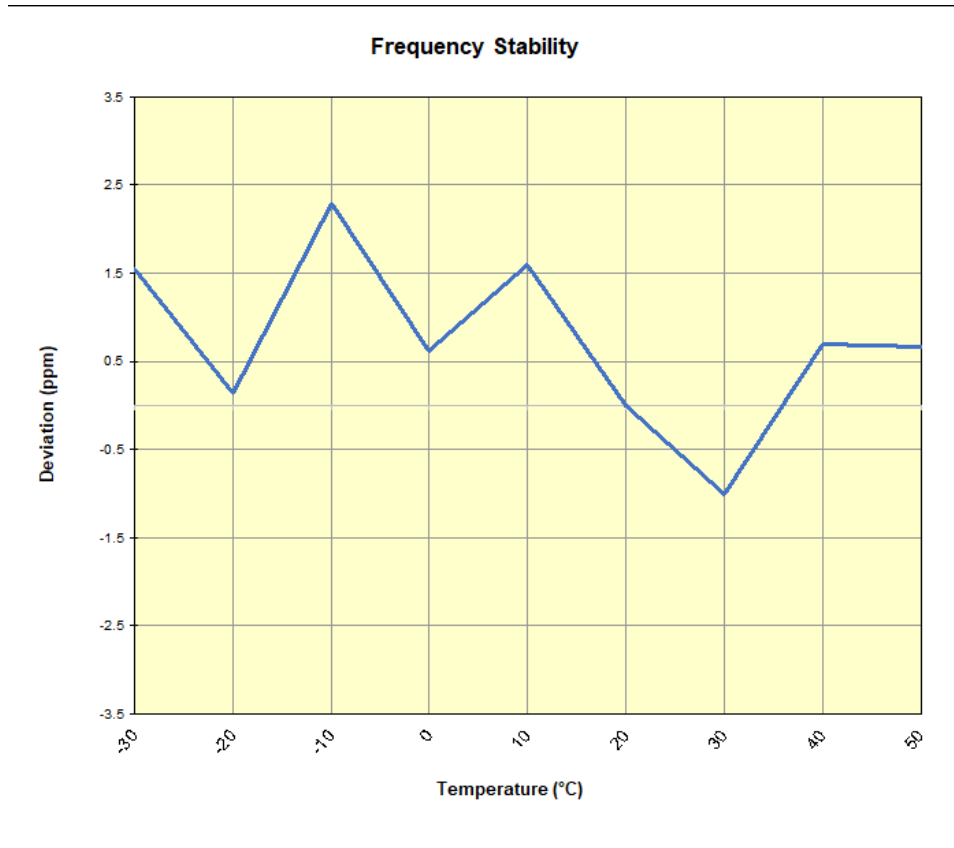


Table 7-58. LTE Band 13 Frequency Stability Chart

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n71					
		Operating Frequency (Hz):		680,500,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	680,580,828	116	0.000170
		- 20	680,582,147	1,435	0.0002108
		- 10	680,581,957	1,245	0.0001829
		0	680,582,177	1,465	0.0002153
		+ 10	680,581,748	1,036	0.0001522
		+ 20 (Ref)	680,580,712	0	0.0000000
		+ 30	680,581,676	964	0.0001416
		+ 40	680,580,440	-272	-0.0000400
		+ 50	680,581,244	532	0.0000782
Battery Endpoint	3.69	+ 20	680,580,997	285	0.0000419

Table 7-59. NR Band n71 Frequency Stability Data

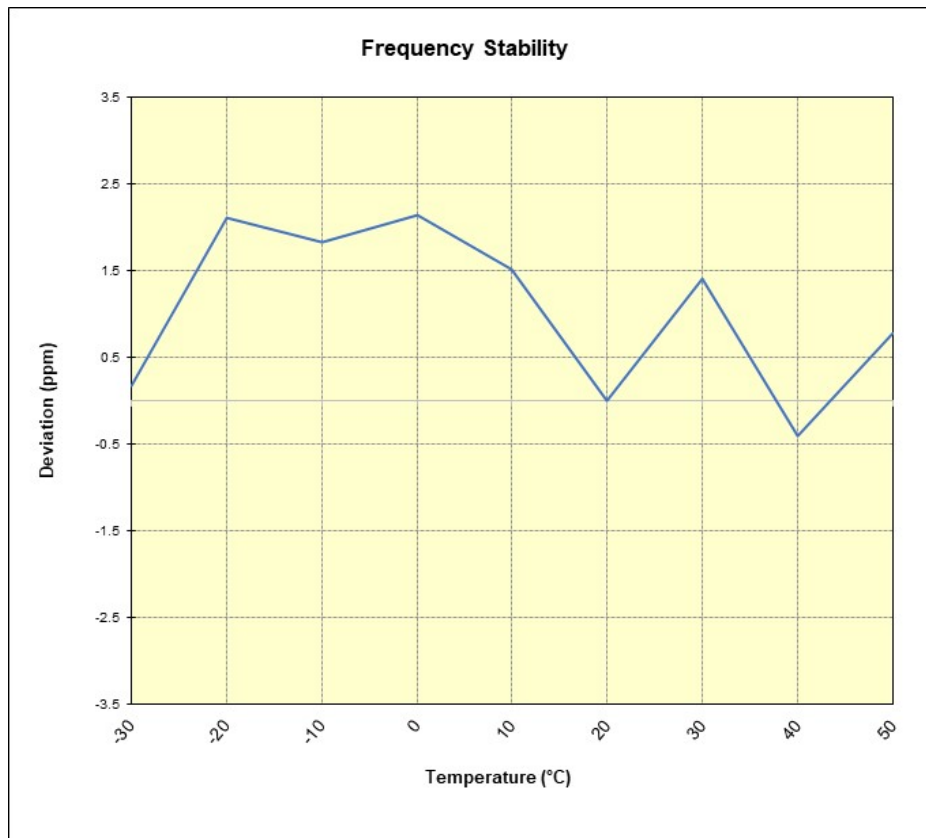


Table 7-60. NR Band n71 Frequency Stability Chart

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

WCDMA AWS					
		Operating Frequency (Hz):		1,732,600,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	1,732,606,682	194	0.0000112
		- 20	1,732,607,824	1,336	0.0000771
		- 10	1,732,609,245	2,757	0.0001591
		0	1,732,606,084	-404	-0.0000233
		+ 10	1,732,606,275	-213	-0.0000123
		+ 20 (Ref)	1,732,606,488	0	0.0000000
		+ 30	1,732,607,658	1,170	0.0000675
		+ 40	1,732,603,498	-2,990	-0.0001726
Battery Endpoint	3.69	+ 20	1,732,607,155	667	0.0000385

Table 7-61. WCDMA Frequency Stability Data

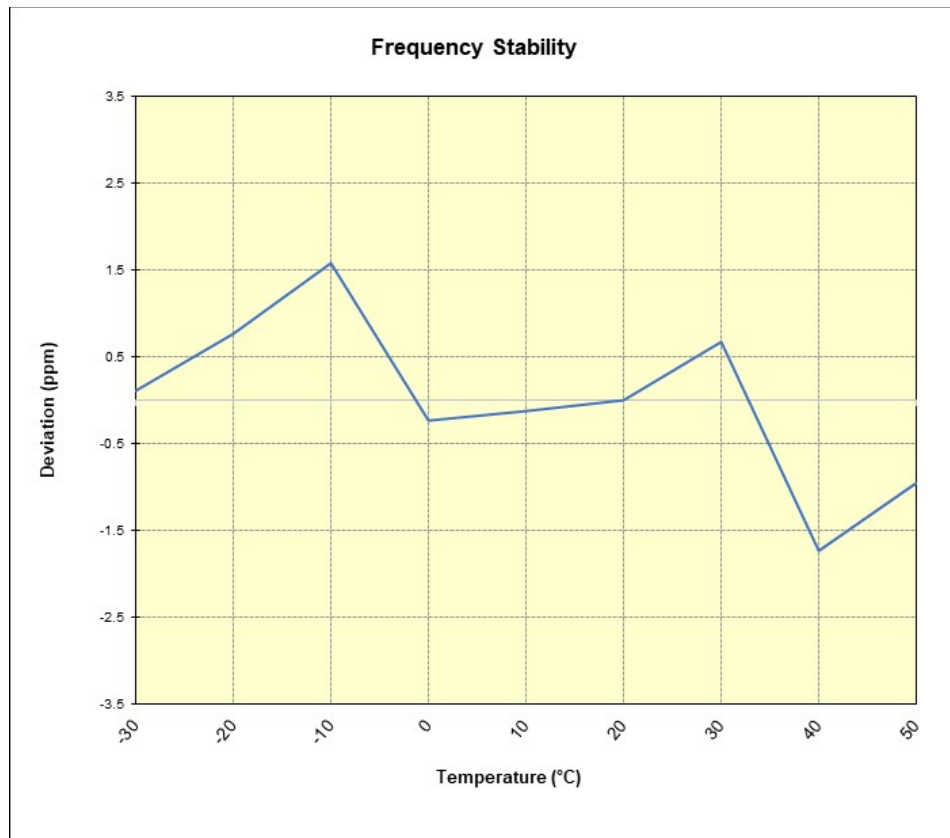


Table 7-62. WCDMA Frequency Stability Chart

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 66/4					
Operating Frequency (Hz):		1,745,000,000			
Ref. Voltage (VDC):		4.28			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	1,745,099,284	1,963	0.0001125
		- 20	1,745,099,148	1,827	0.0001047
		- 10	1,745,098,902	1,581	0.0000906
		0	1,745,096,051	-1,270	-0.0000728
		+ 10	1,745,094,216	-3,105	-0.0001779
		+ 20 (Ref)	1,745,097,321	0	0.0000000
		+ 30	1,745,095,230	-2,091	-0.0001198
		+ 40	1,745,094,157	-3,164	-0.0001813
Battery Endpoint	3.69	+ 20	1,745,099,434	2,113	0.0001211

Table 7-63. LTE Band 66/4 Frequency Stability Data

Frequency Stability

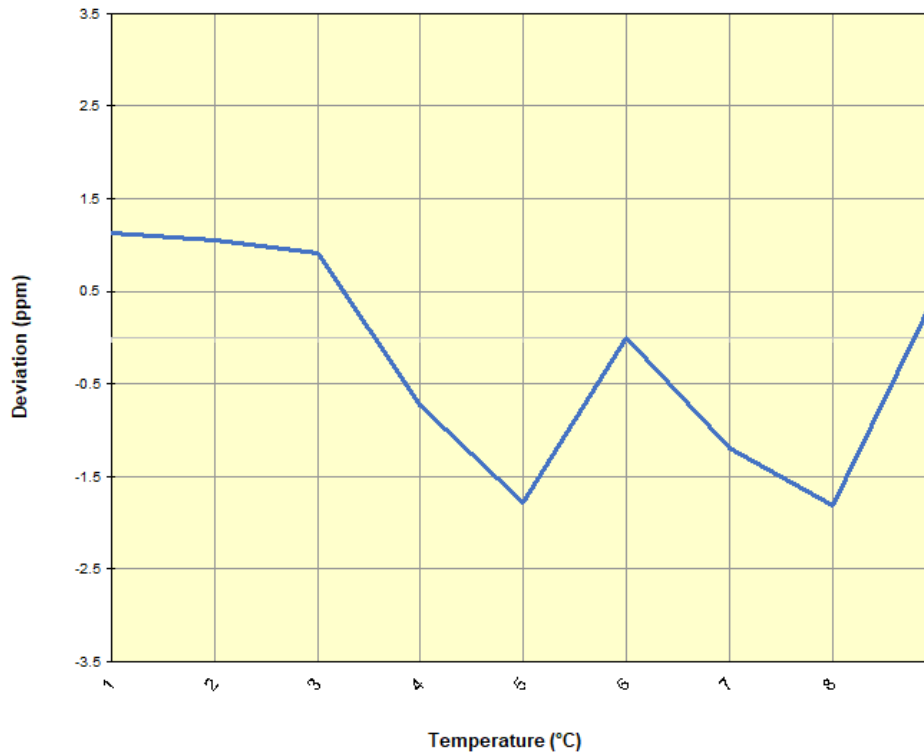


Table 7-64. LTE Band 66/4 Frequency Stability Chart

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n66					
		Operating Frequency (Hz):		1,745,000,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	1,745,083,774	2,693	0.0001543
		- 20	1,745,082,493	1,412	0.0000809
		- 10	1,745,083,744	2,663	0.0001526
		0	1,745,081,777	696	0.0000399
		+ 10	1,745,081,851	770	0.0000441
		+ 20 (Ref)	1,745,081,081	0	0.0000000
		+ 30	1,745,077,300	-3,781	-0.0002167
		+ 40	1,745,081,992	911	0.0000522
		+ 50	1,745,081,468	387	0.0000222
Battery Endpoint	3.69	+ 20	1,745,080,548	-533	-0.0000305

Table 7-65. NR Band n66 Frequency Stability Data

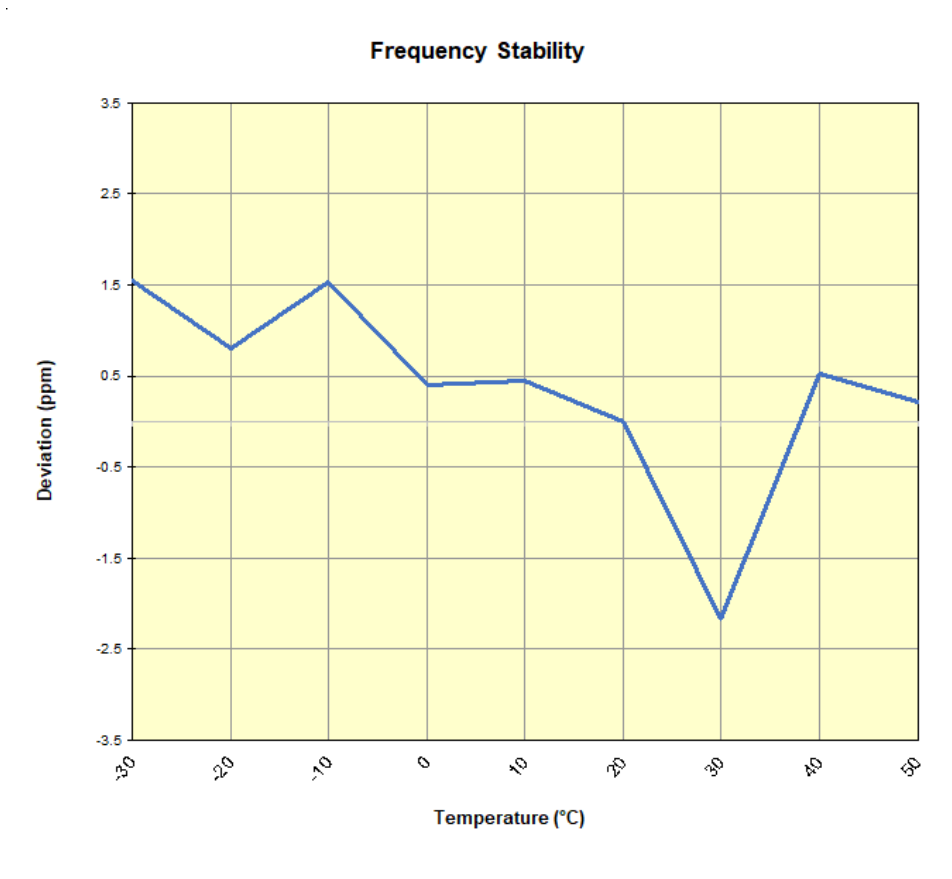


Table 7-66. NR Band n66 Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Sony Portable Handset FCC ID: PY7-76056F** complies with all the requirements of Part 27 of the FCC rules.

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