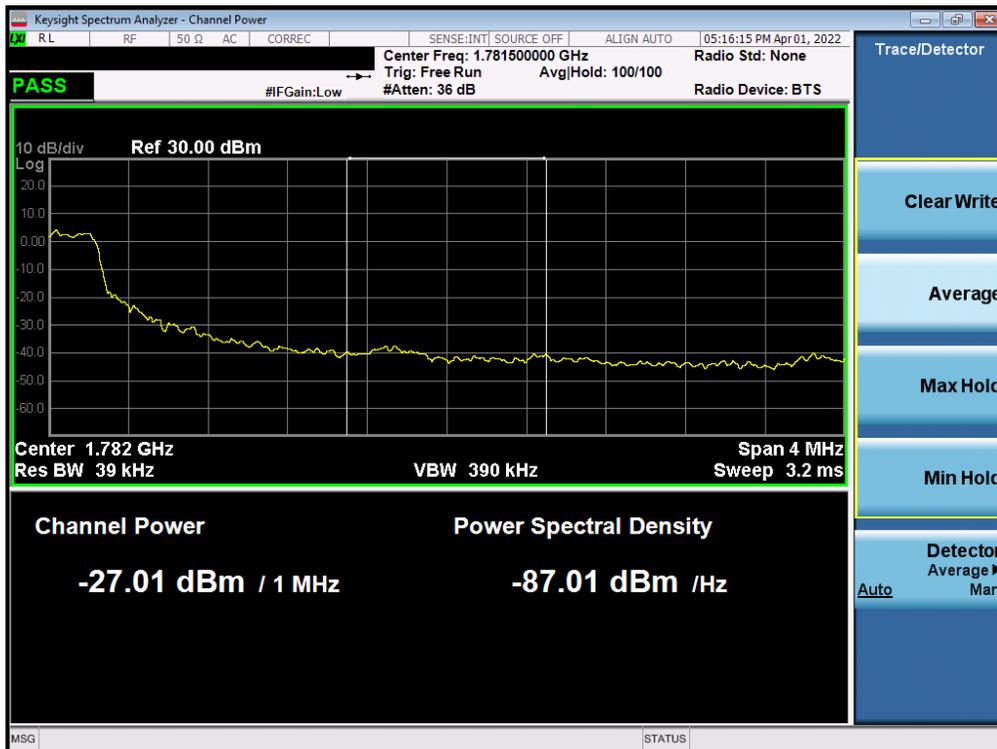




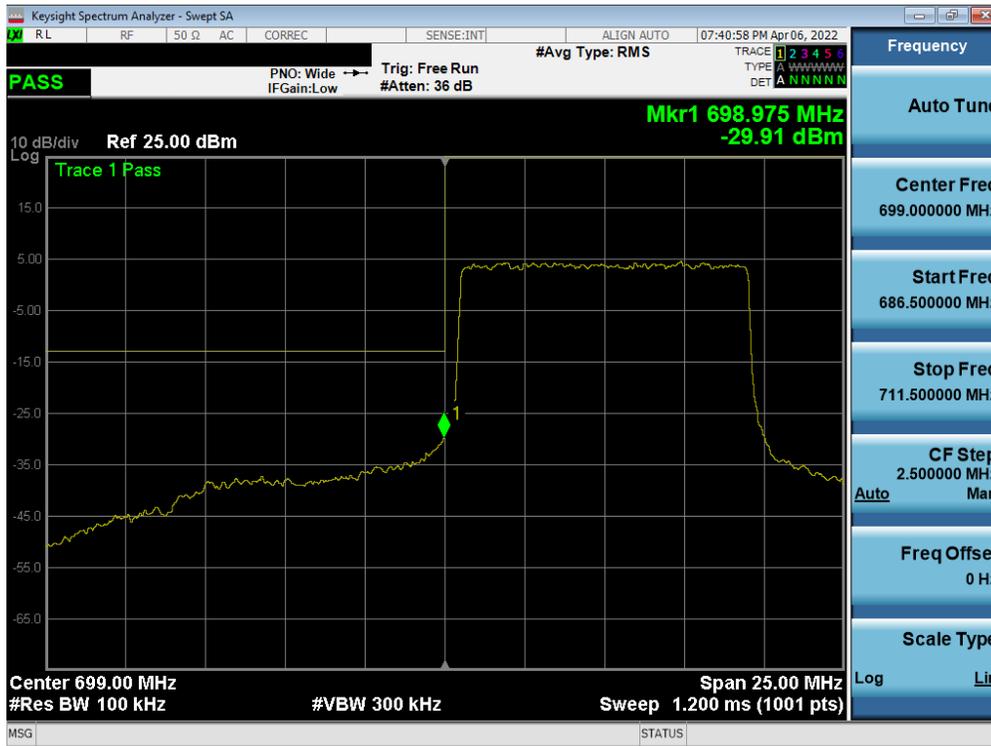
Plot 7-227. Upper Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Main Ant)



Plot 7-228. Upper Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## LTE Band 12/17 – Sub Ant



Plot 7-229. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB - Sub Ant)

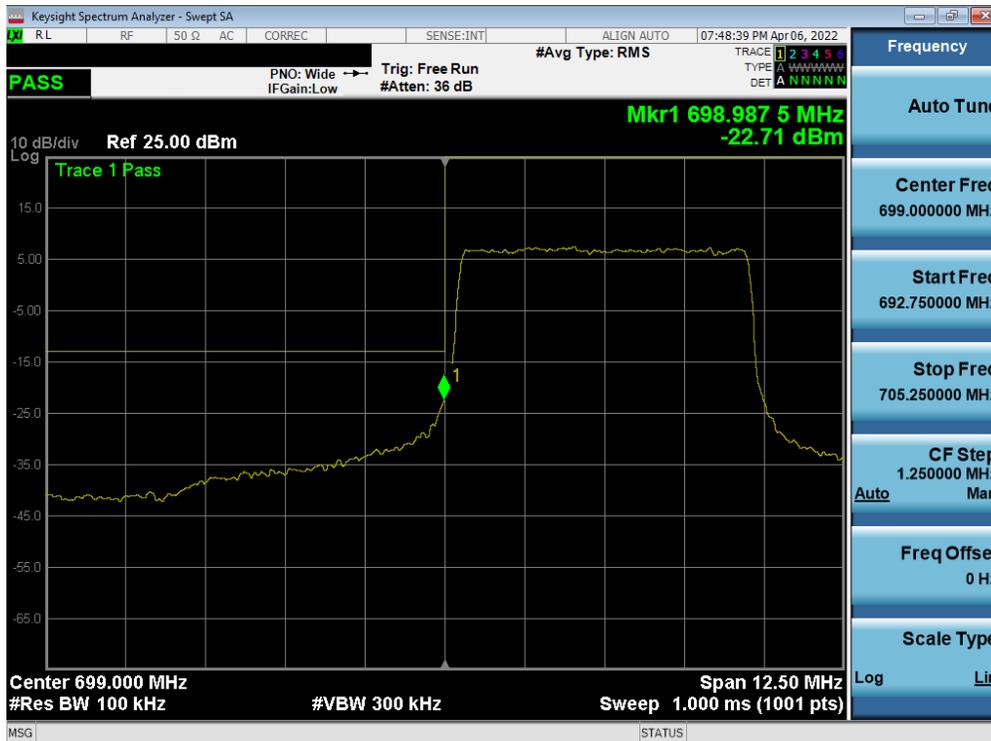


Plot 7-230. Lower Band Edge Plot (LTE Band 17 - 10MHz QPSK – Full RB - Sub Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 138 of 206

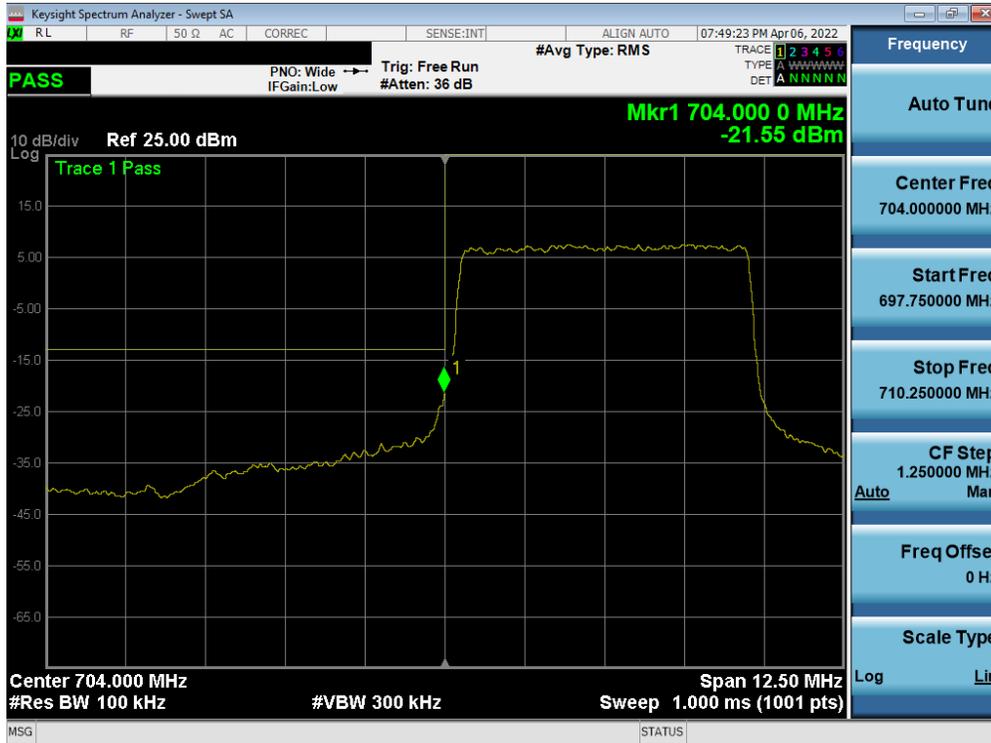


Plot 7-231. Upper Band Edge Plot (LTE Band 12/17 - 10MHz QPSK – Full RB - Sub Ant)



Plot 7-232. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB - Sub Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-233. Lower Band Edge Plot (LTE Band 17 - 5MHz QPSK – Full RB - Sub Ant)



Plot 7-234. Upper Band Edge Plot (LTE Band 12/17 - 5MHz QPSK – Full RB - Sub Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 140 of 206

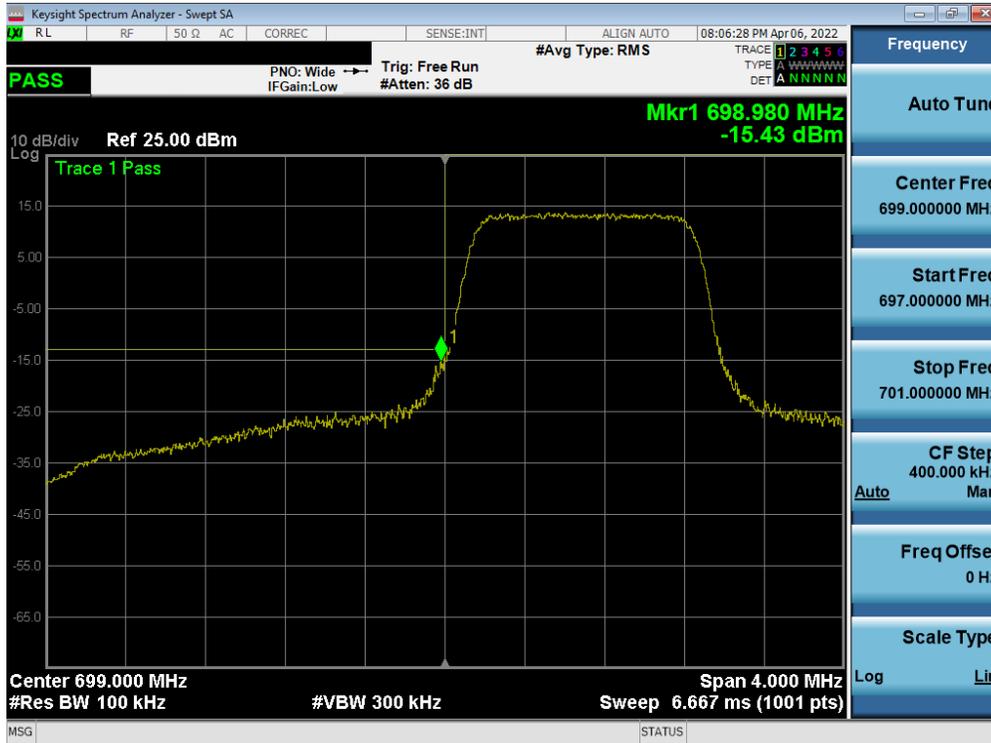


Plot 7-235. Lower Band Edge Plot (LTE Band 12 - 3MHz QPSK – Full RB - Sub Ant)



Plot 7-236. Upper Band Edge Plot (LTE Band 12 - 3MHz QPSK – Full RB - Sub Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 141 of 206



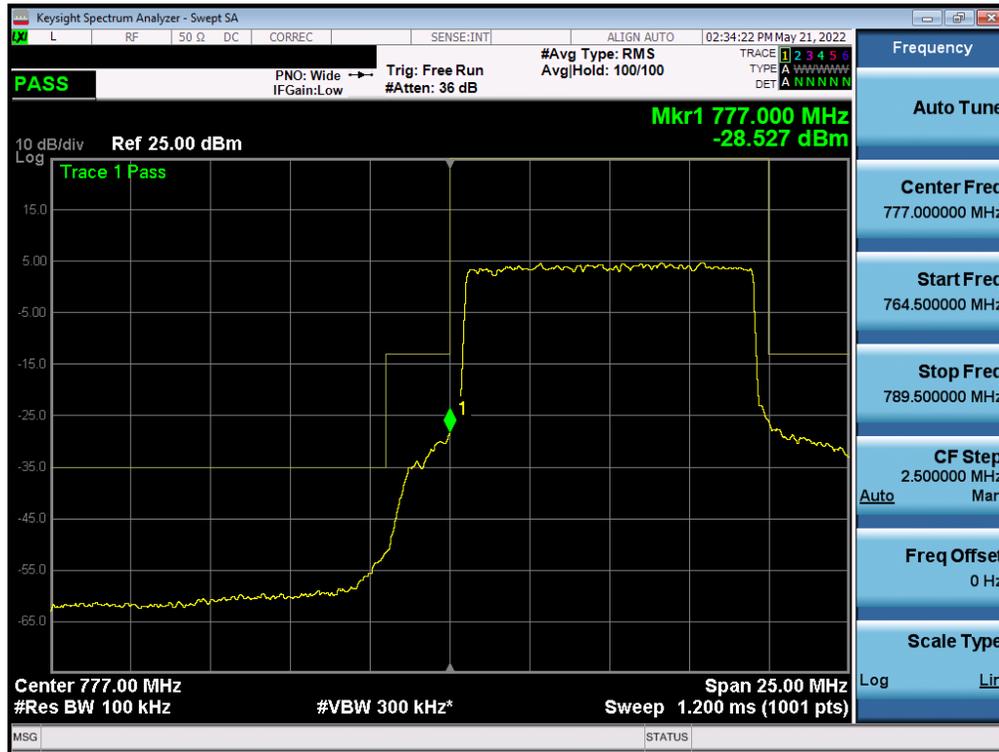
Plot 7-237. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - Sub Ant)



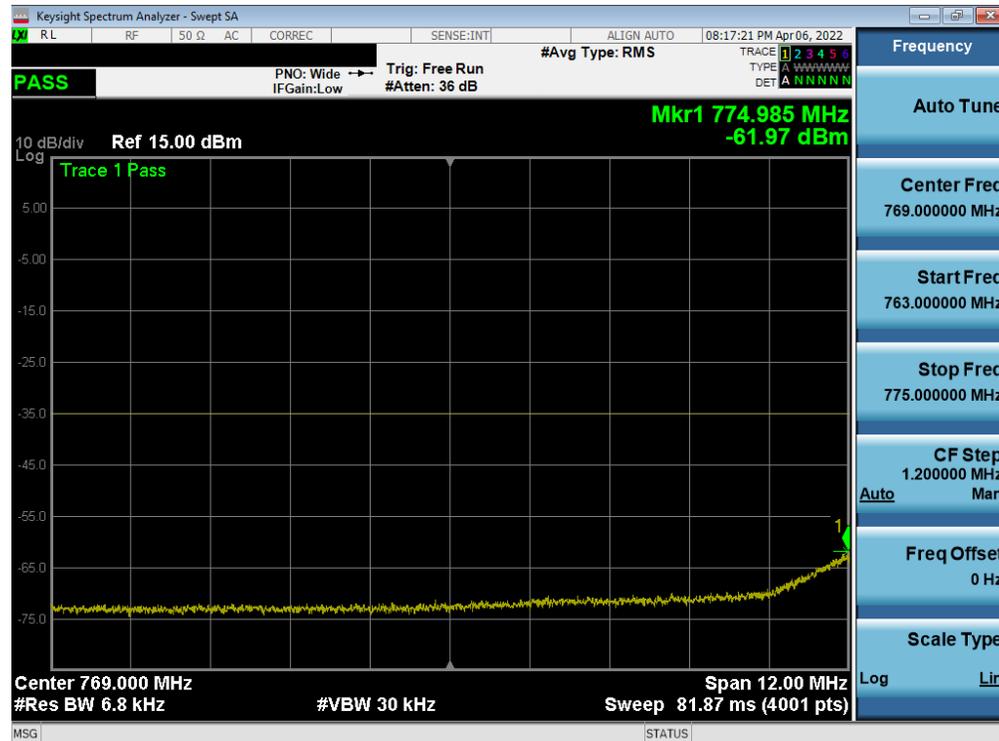
Plot 7-238. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - Sub Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 142 of 206

## LTE Band 13 – Sub Ant



Plot 7-239. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB - Sub Ant)



FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-240. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB - Sub Ant)

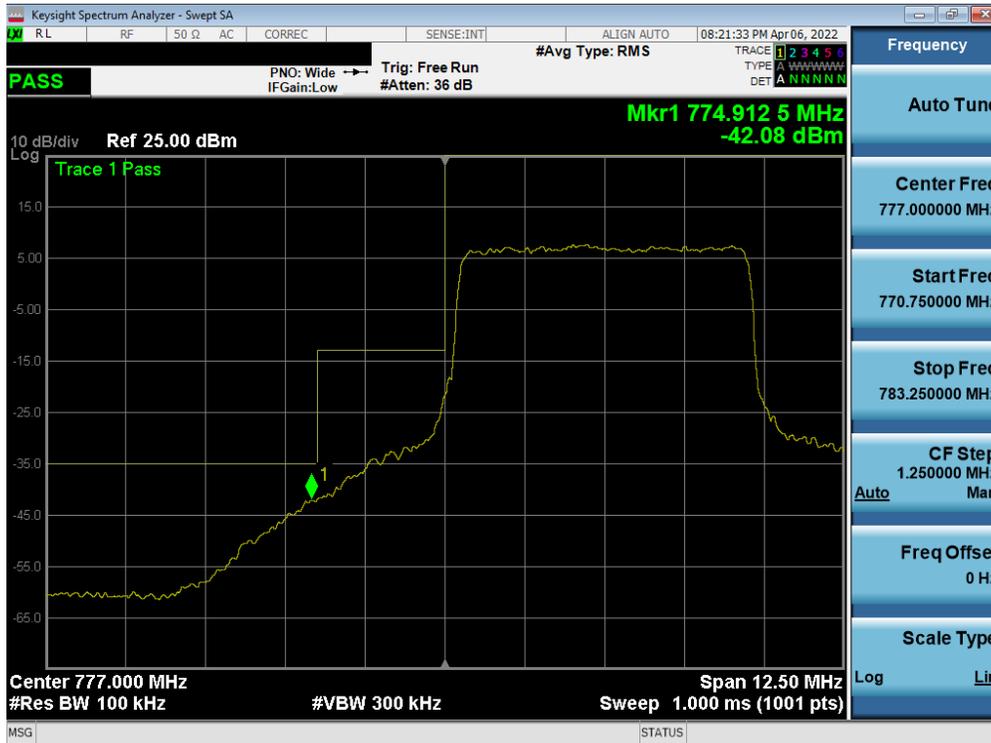


Plot 7-241. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB - Sub Ant)

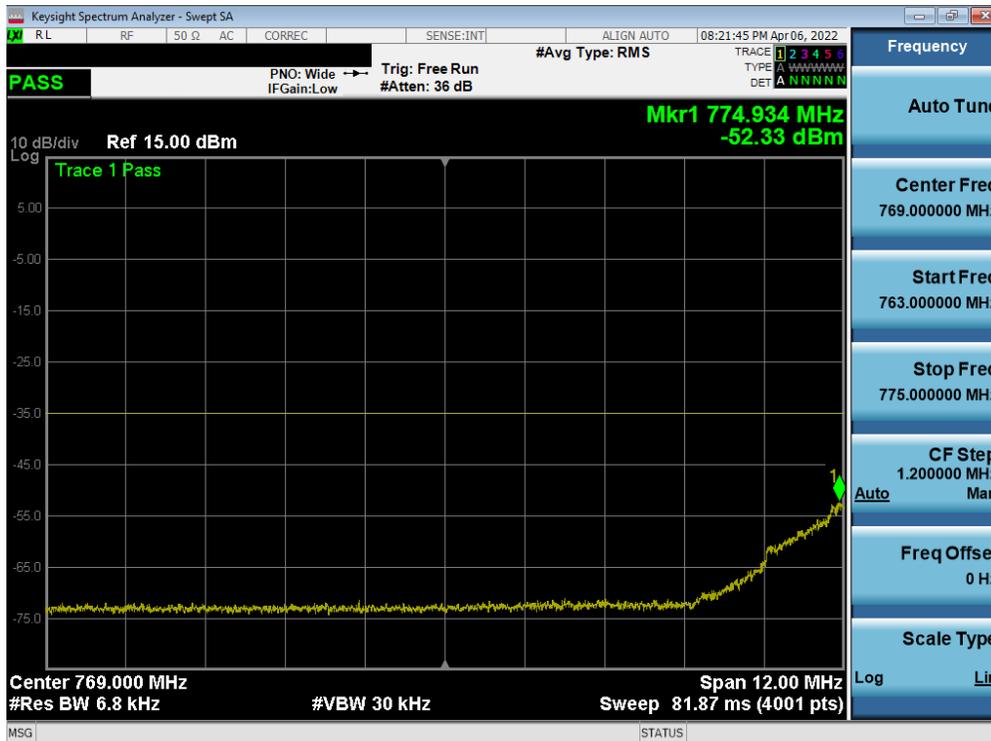


Plot 7-242. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB - Sub Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-243. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - Sub Ant)

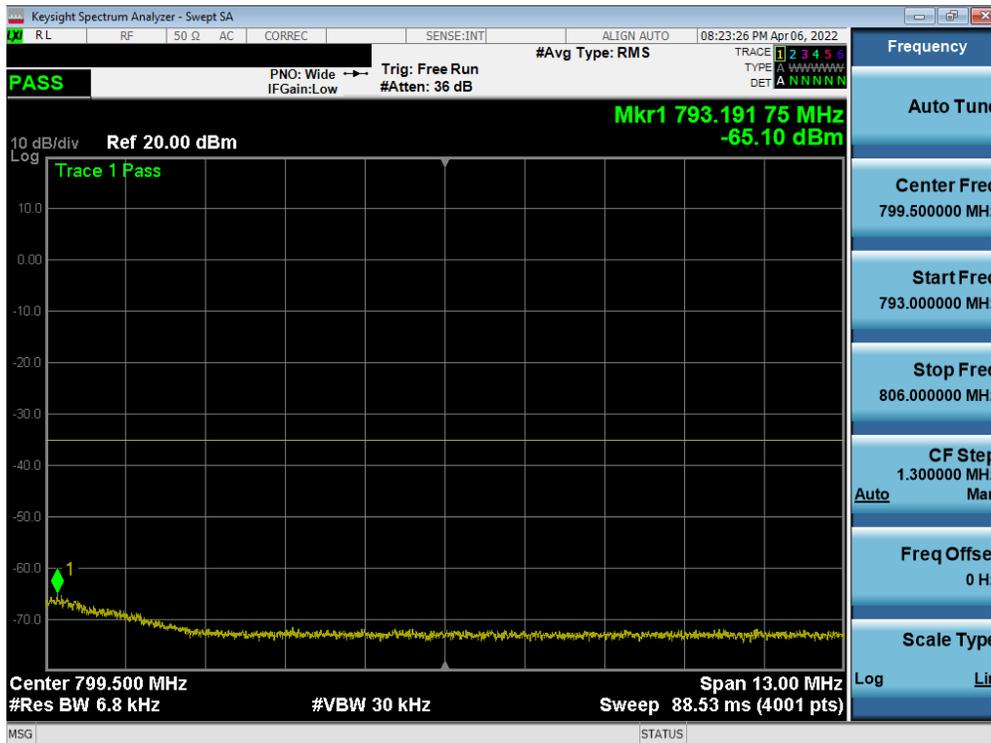


Plot 7-244. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - Sub Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-245. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - Sub Ant)



Plot 7-246. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - Sub Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## 7.6 Peak-Average Ratio

### Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

### Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

### Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW  $\geq$  OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

### Test Setup

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

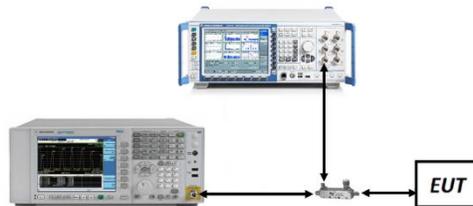


Figure 7-5. Test Instrument & Measurement Setup

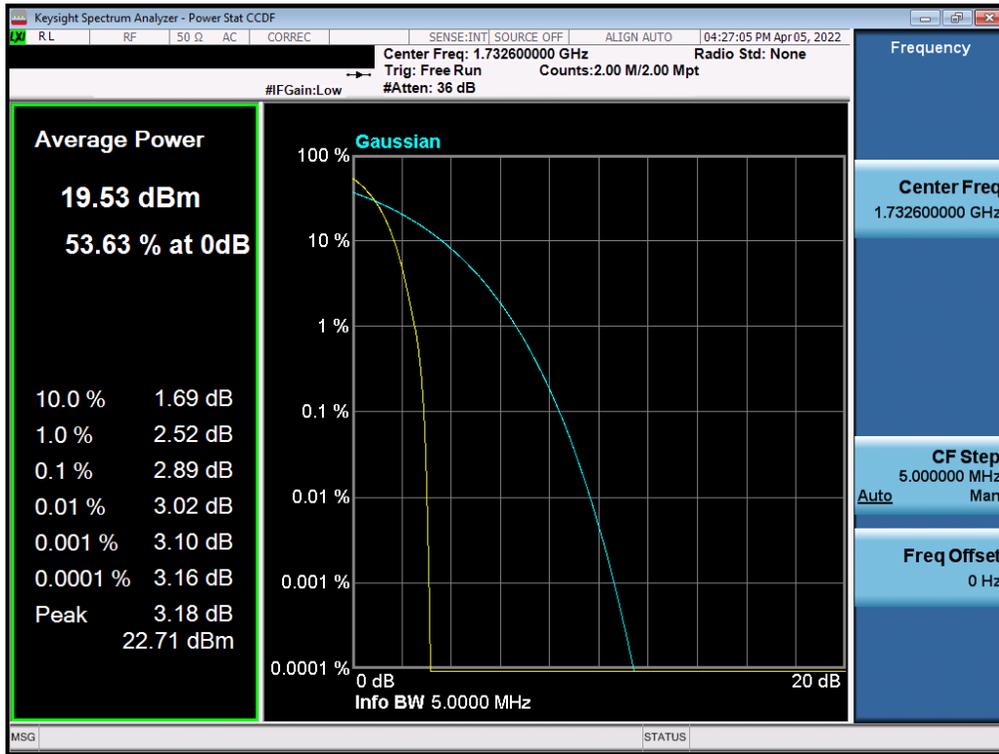
### Test Notes

None.

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WCDMA AWS – Main Ant

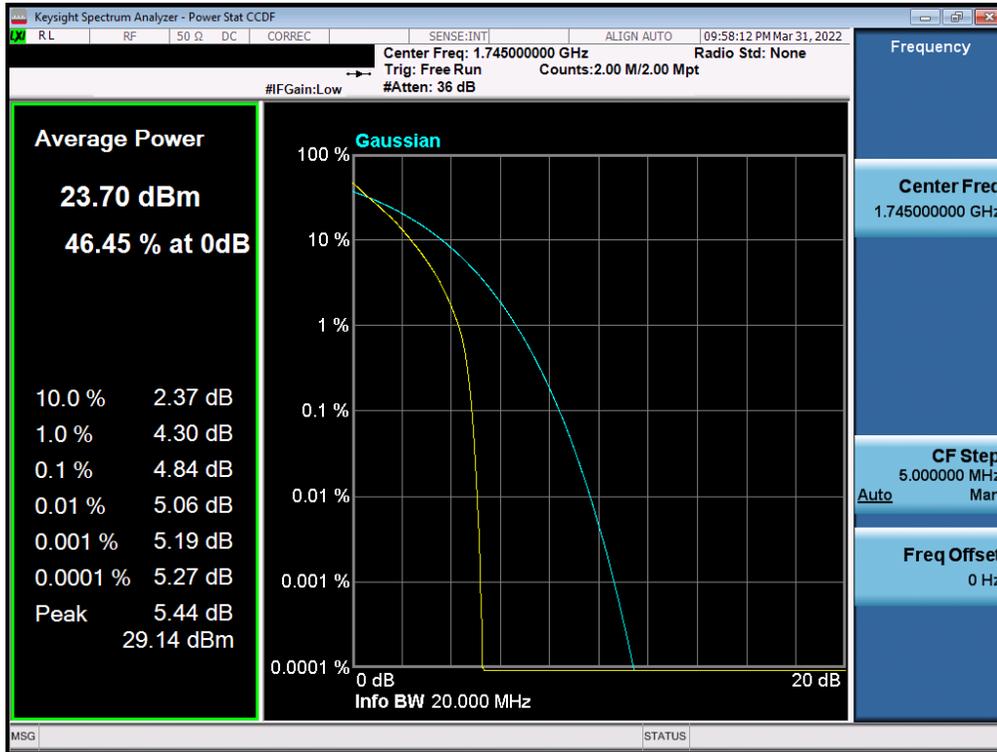


Plot 7-247. PAR Plot (WCDMA, Ch. 1413 – Main Ant)

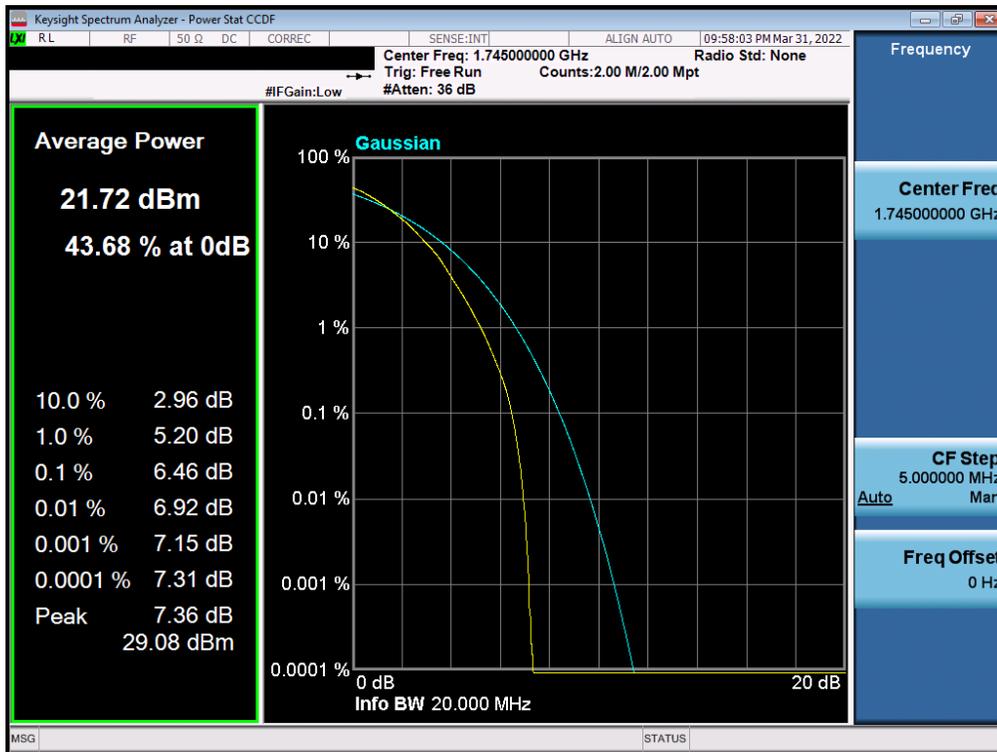
FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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### LTE Band 66/4 – Main Ant

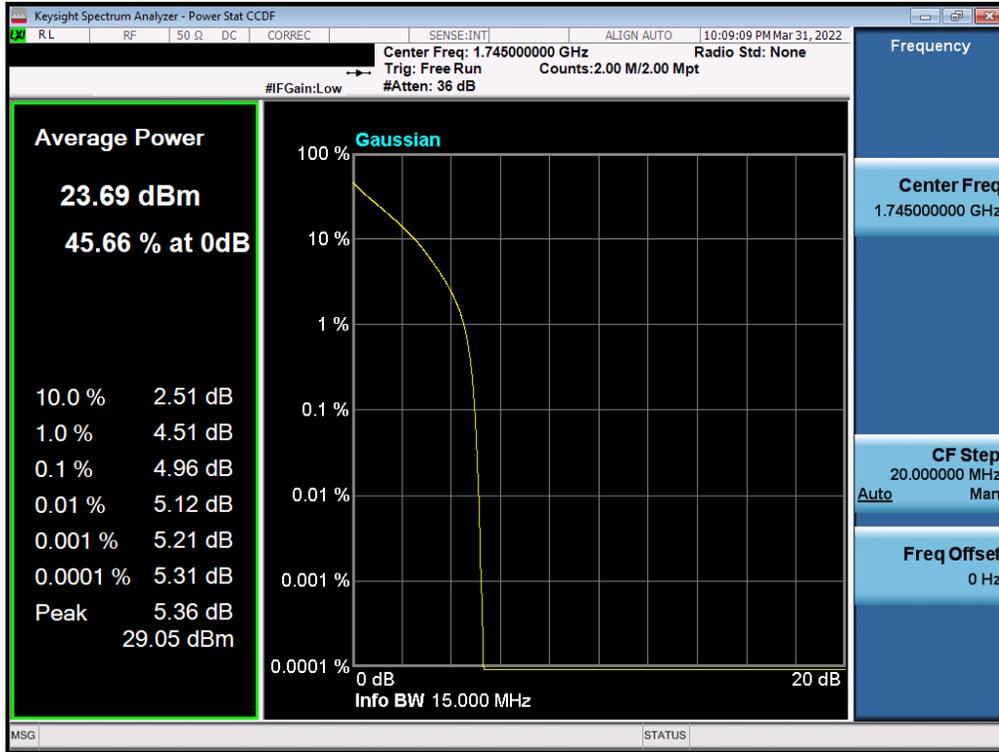


Plot 7-248. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - Main Ant)

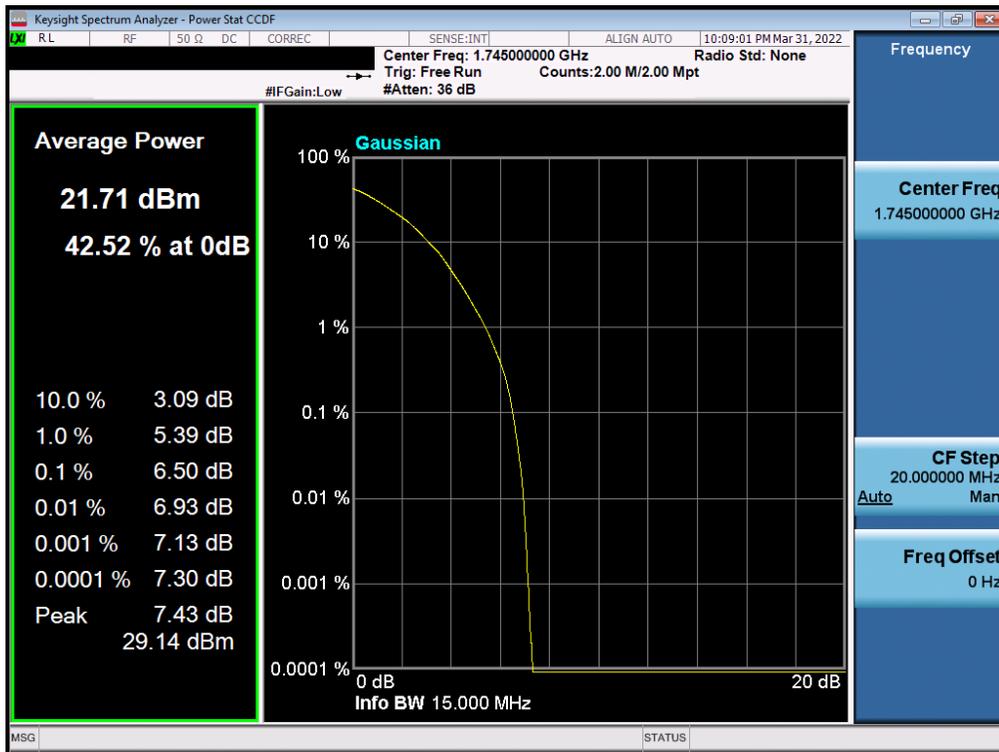


Plot 7-249. PAR Plot (LTE Band 66/4 - 20MHz 64-QAM - Full RB - Main Ant)

FCC ID: PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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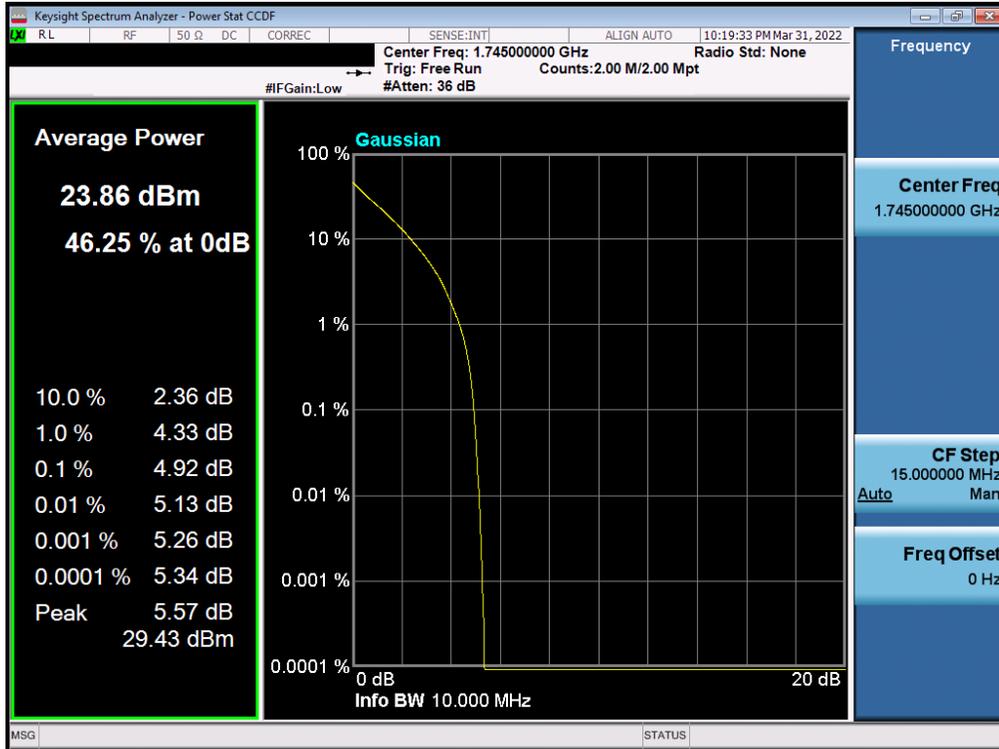


Plot 7-250. PAR Plot (LTE Band 66/4 - 15MHz QPSK - Full RB - Main Ant)

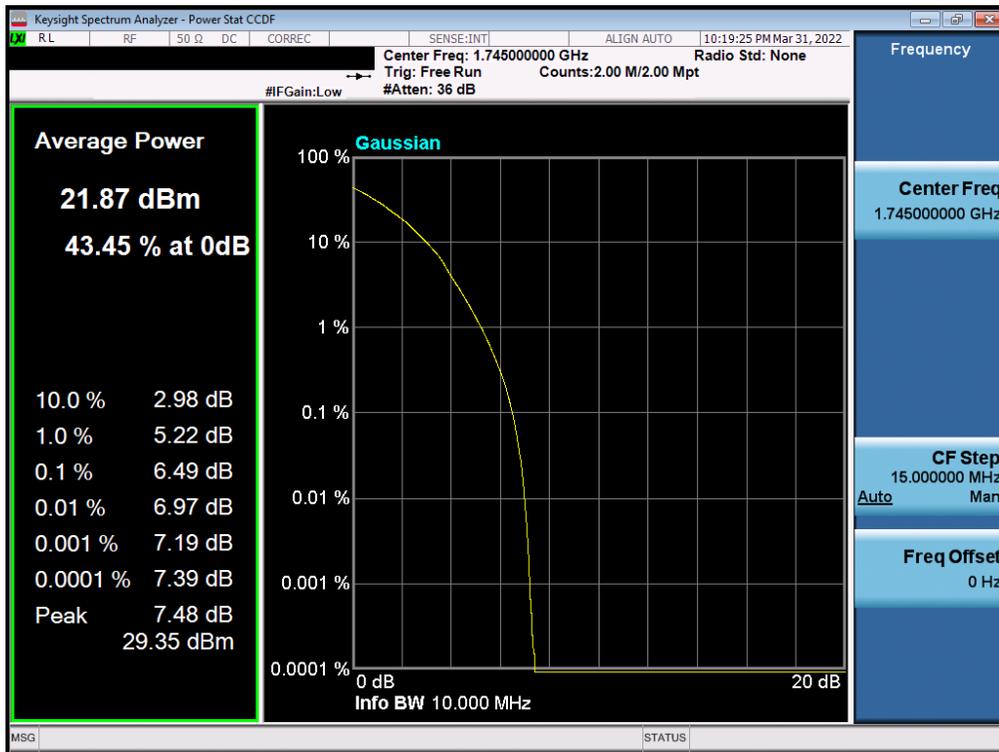


Plot 7-251. PAR Plot (LTE Band 66/4 - 15MHz 64-QAM - Full RB - Main Ant)

FCC ID: PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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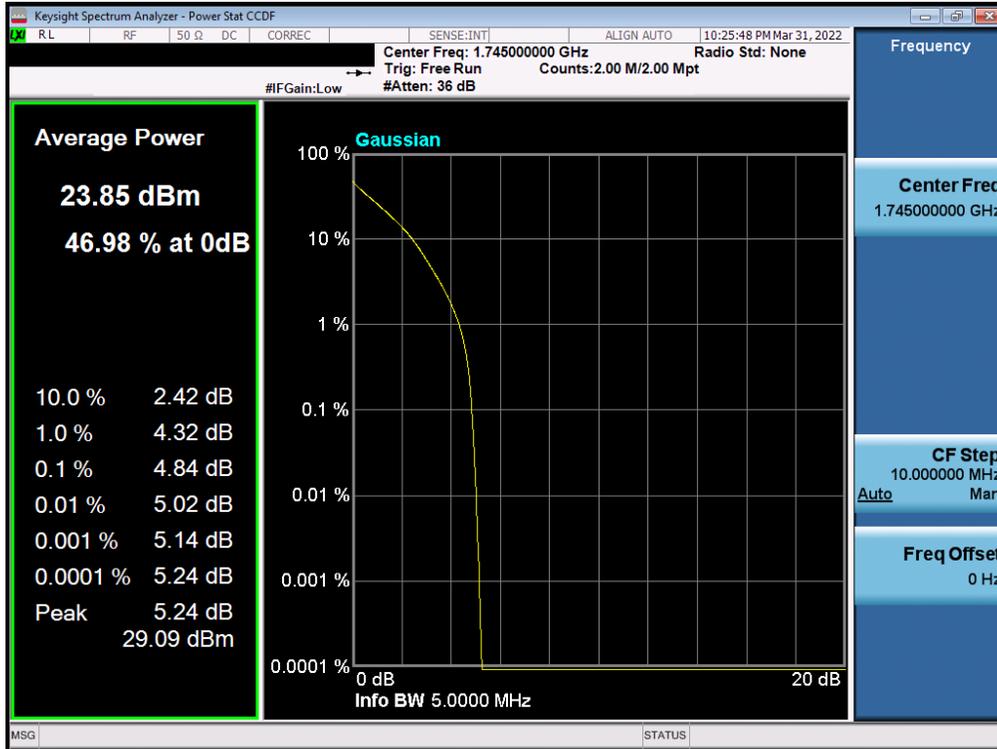


Plot 7-252. PAR Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - Main Ant)

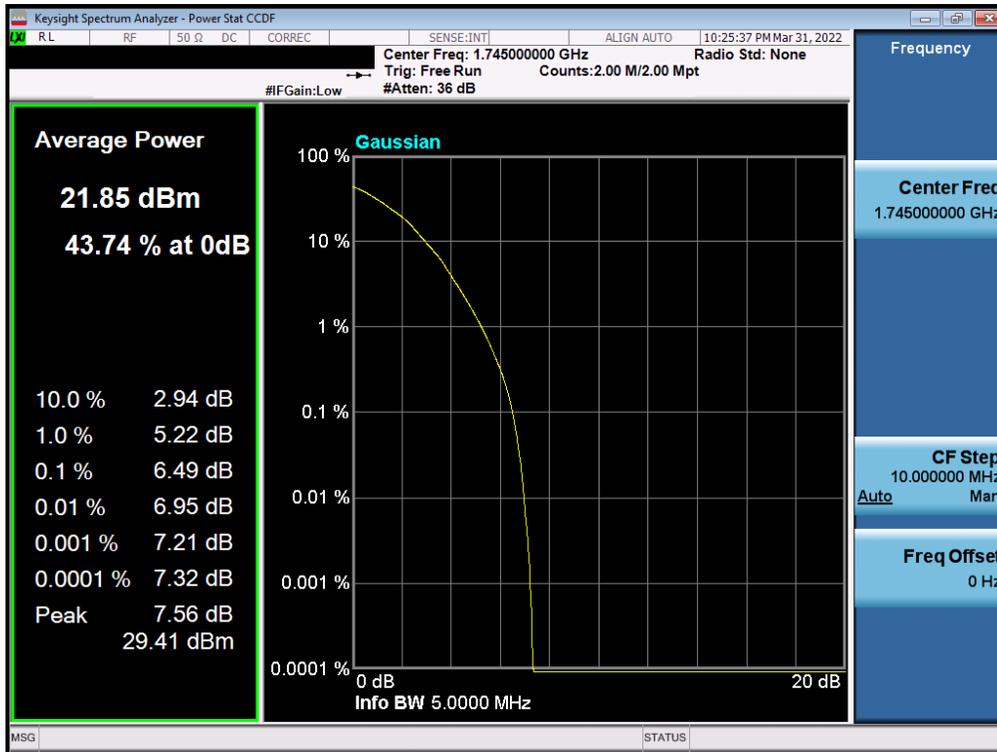


Plot 7-253. PAR Plot (LTE Band 66/4 - 10MHz 64-QAM - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 151 of 206

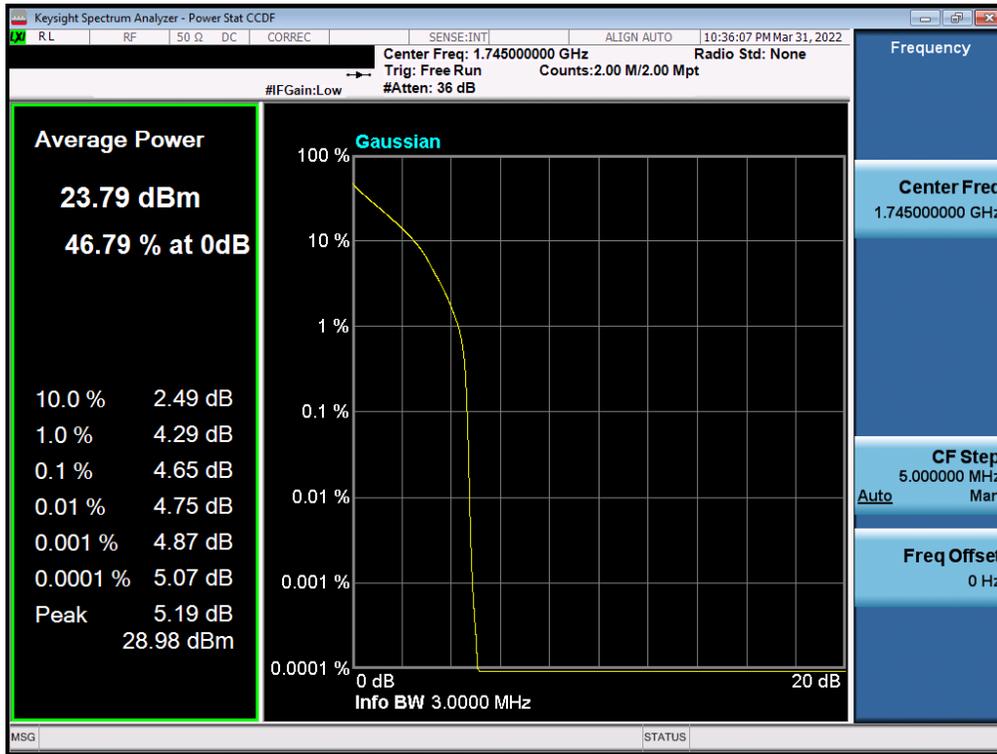


Plot 7-254. PAR Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - Main Ant)

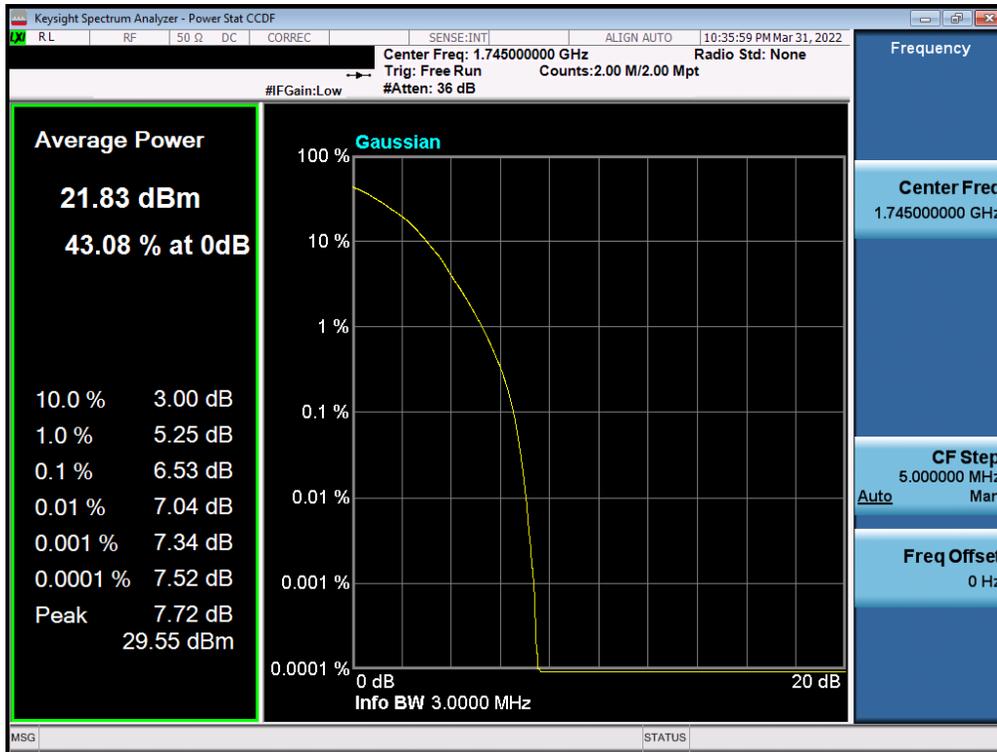


Plot 7-255. PAR Plot (LTE Band 66/4 - 5MHz 64-QAM - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 152 of 206

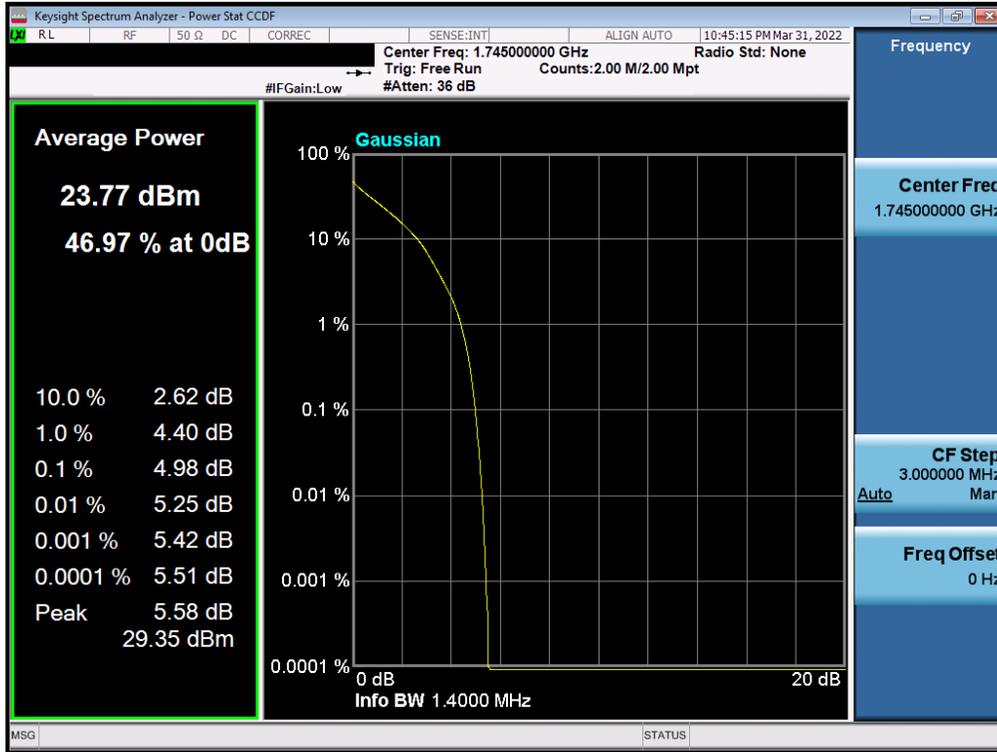


Plot 7-256. PAR Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - Main Ant)

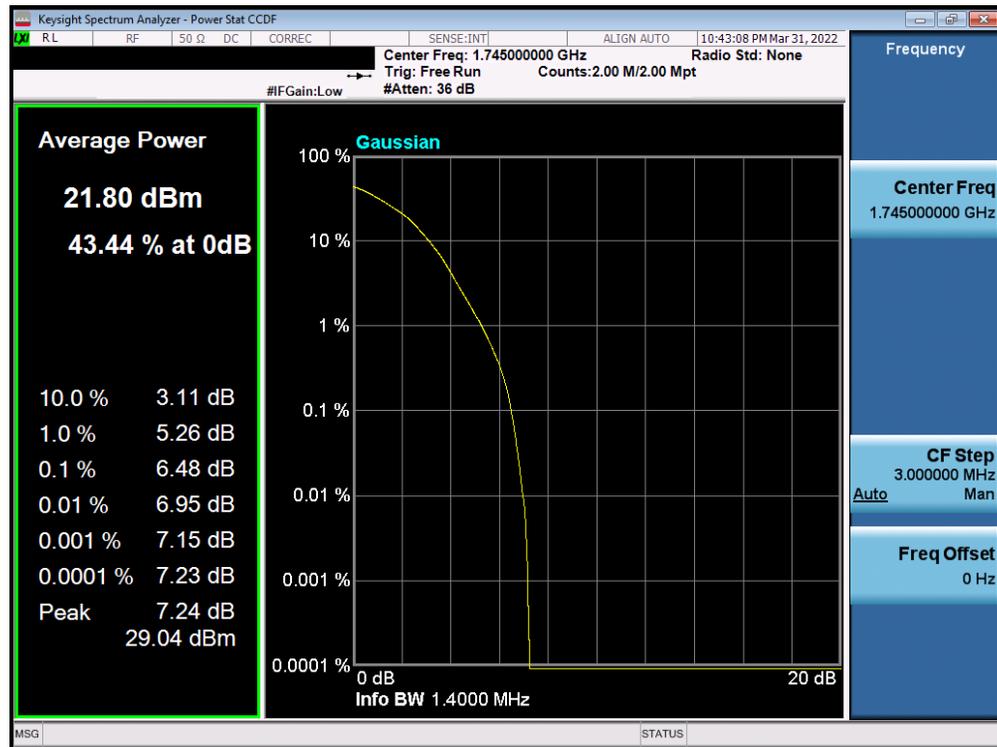


Plot 7-257. PAR Plot (LTE Band 66/4 - 3MHz 64-QAM - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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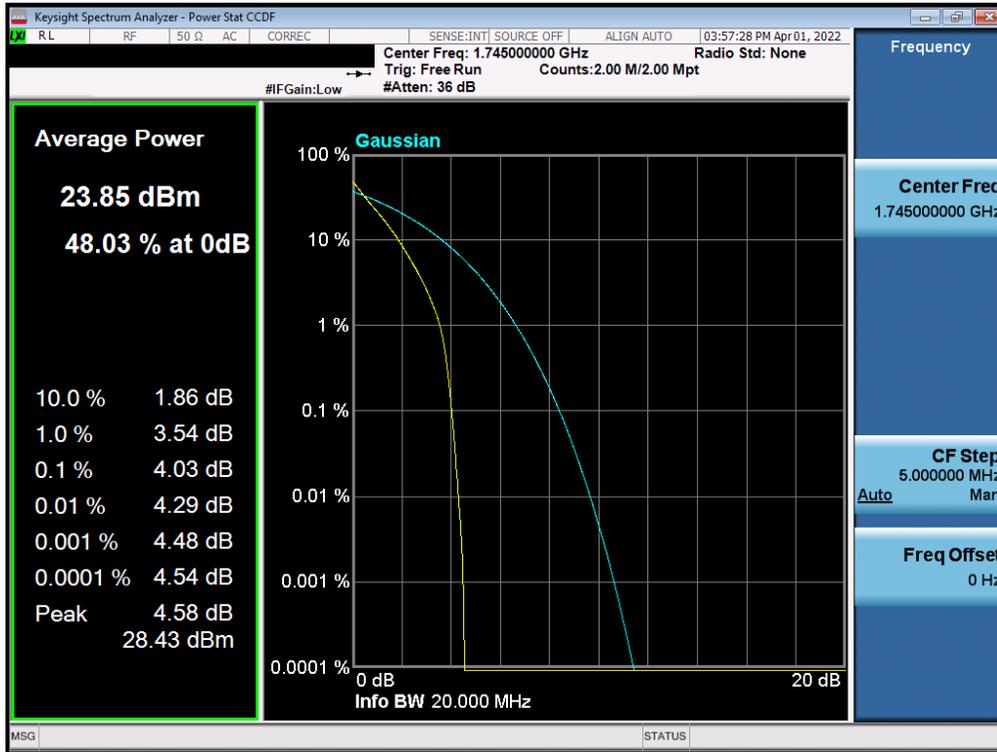
Plot 7-258. PAR Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - Main Ant)



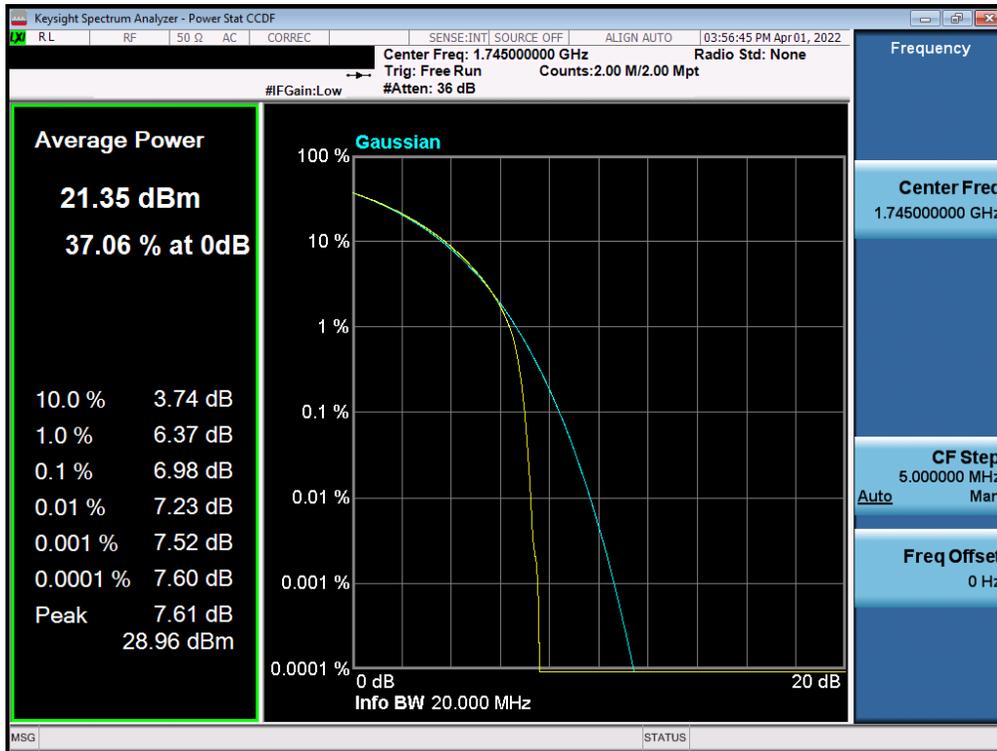
Plot 7-259. PAR Plot (LTE Band 66/4 - 1.4MHz 64-QAM - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n66 – Main Ant

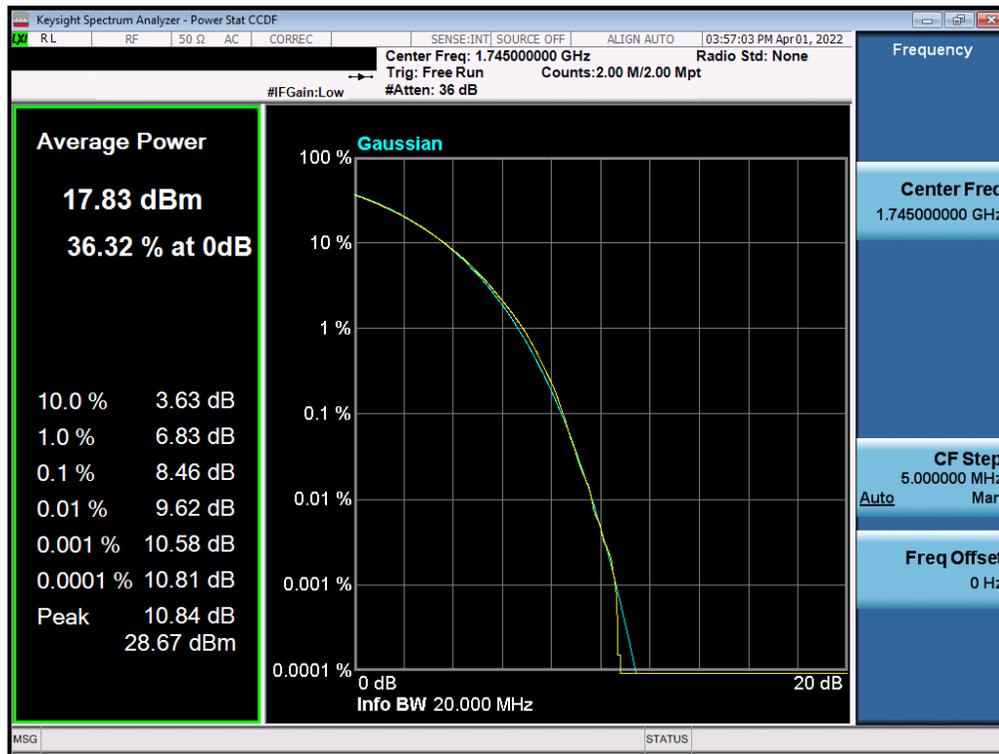


Plot 7-260. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB - Main Ant)

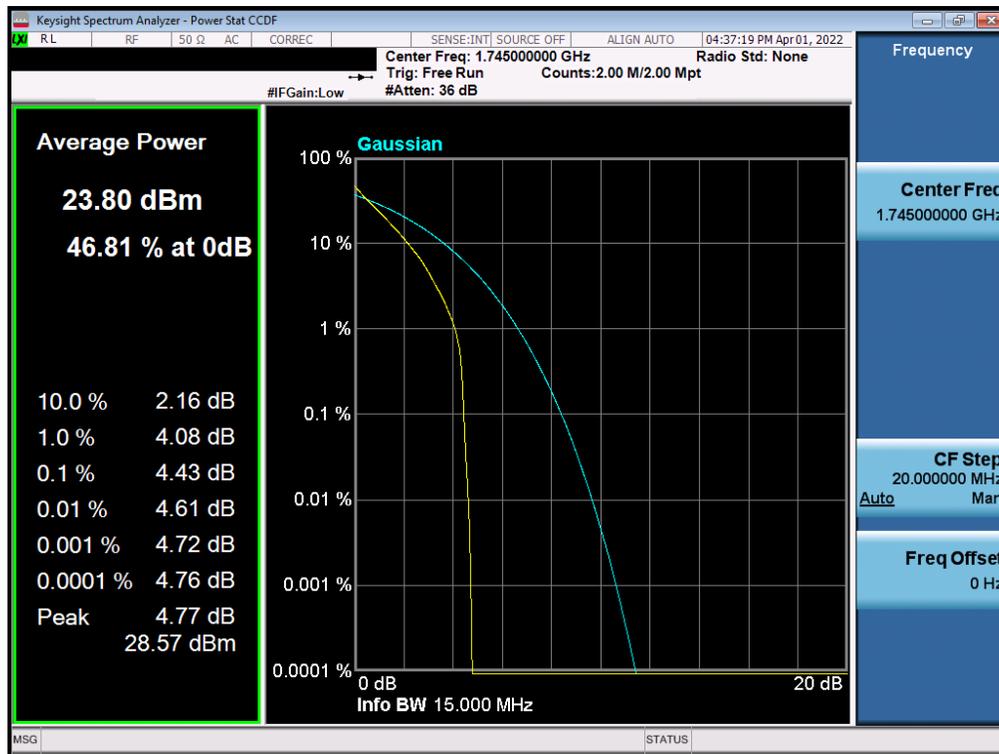


Plot 7-261. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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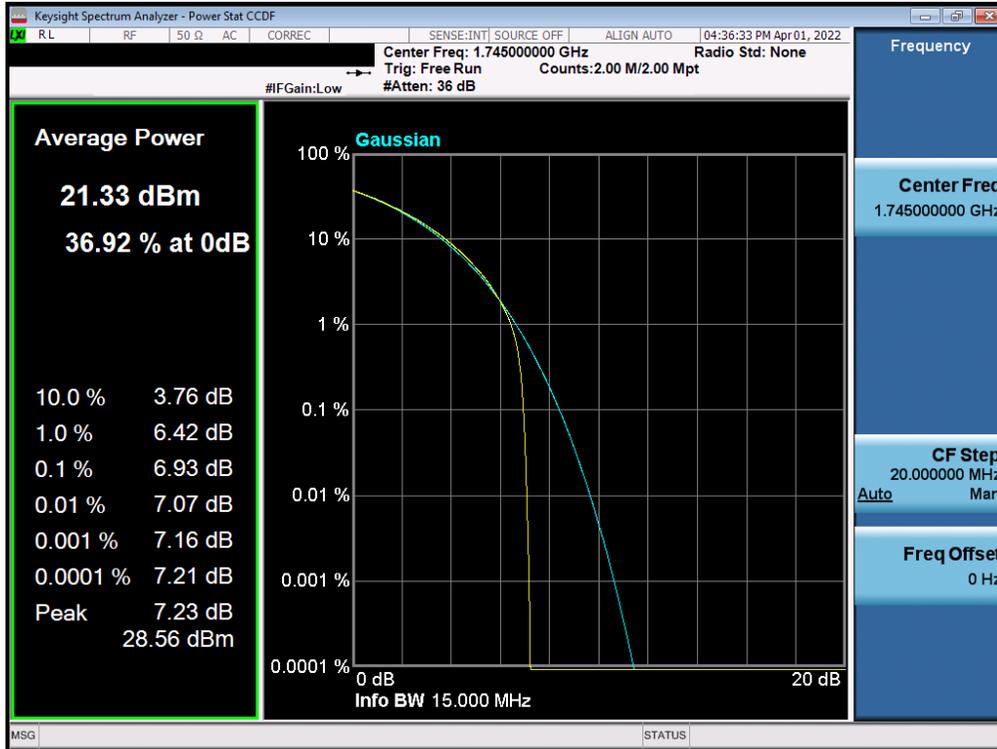


Plot 7-262. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB - Main Ant)

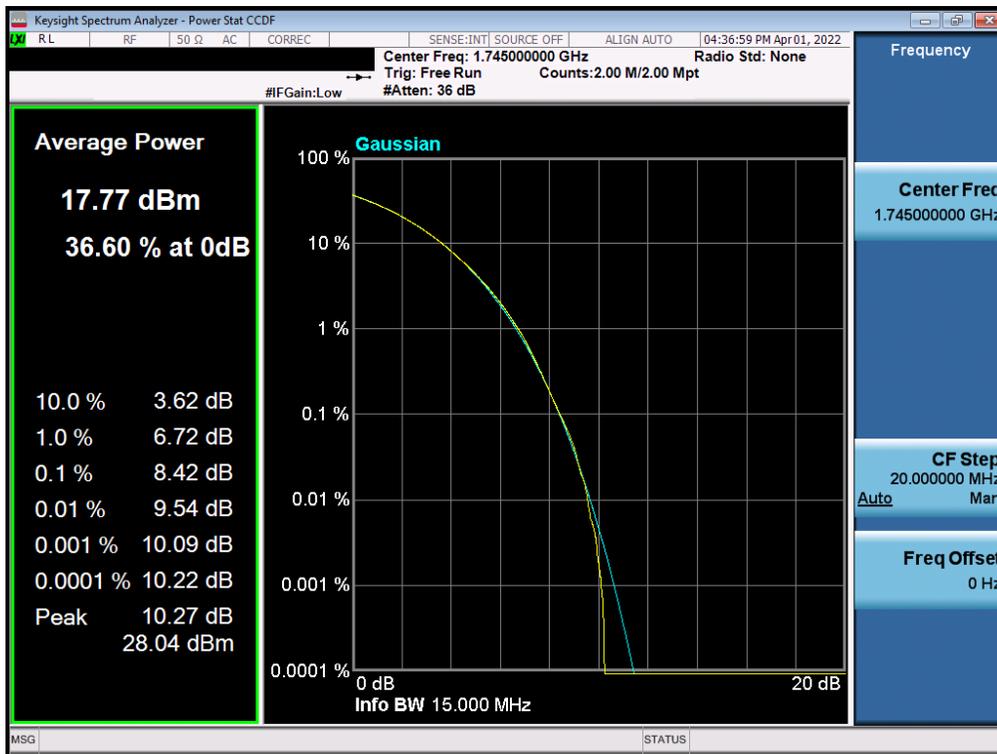


Plot 7-263. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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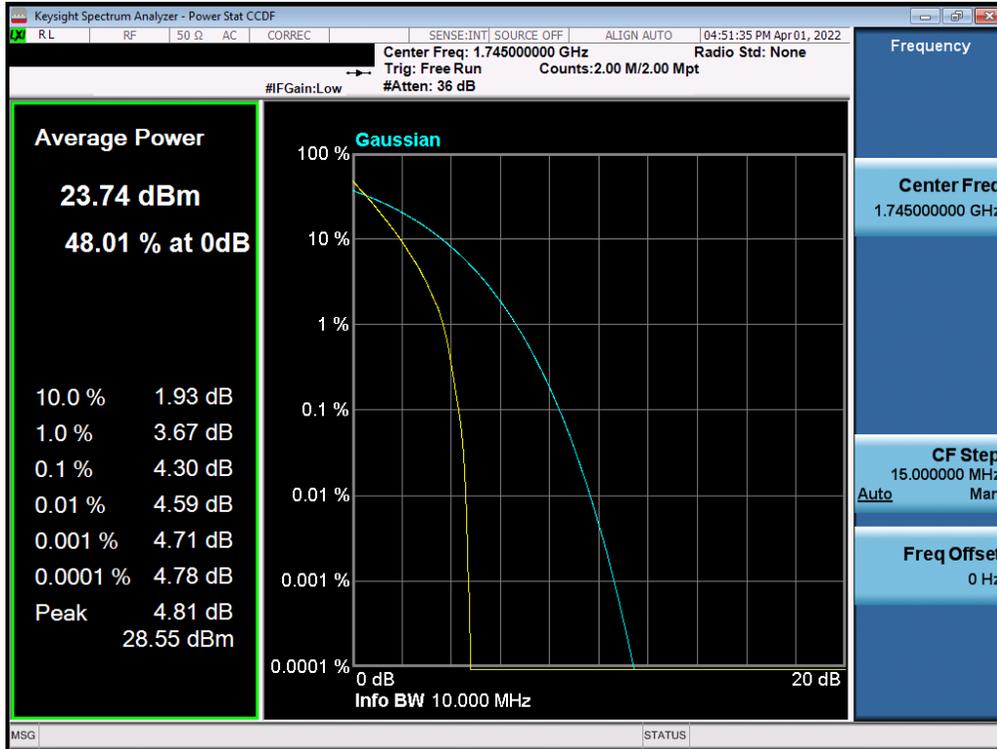


Plot 7-264. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB - Main Ant)

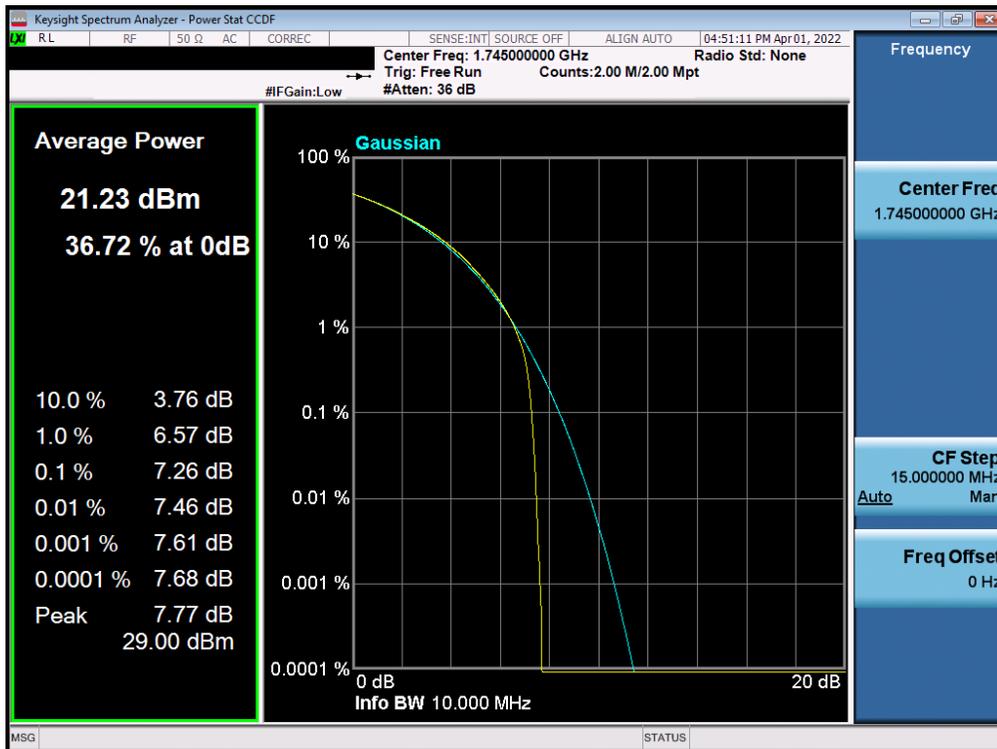


Plot 7-265. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM 256-QAM - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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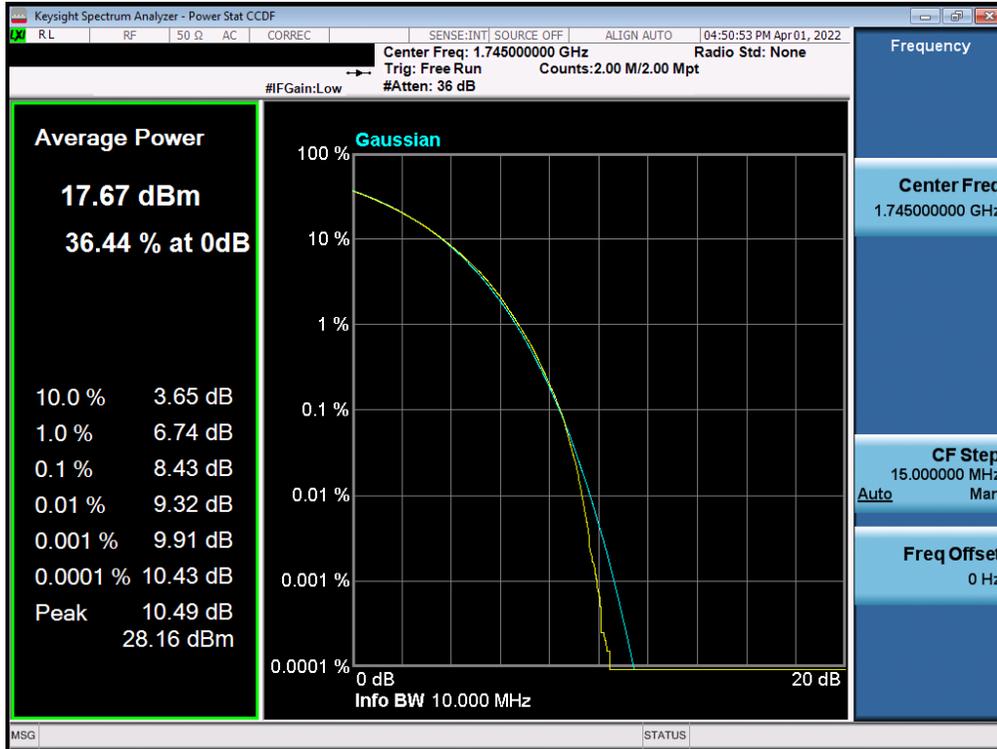


Plot 7-266. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB - Main Ant)

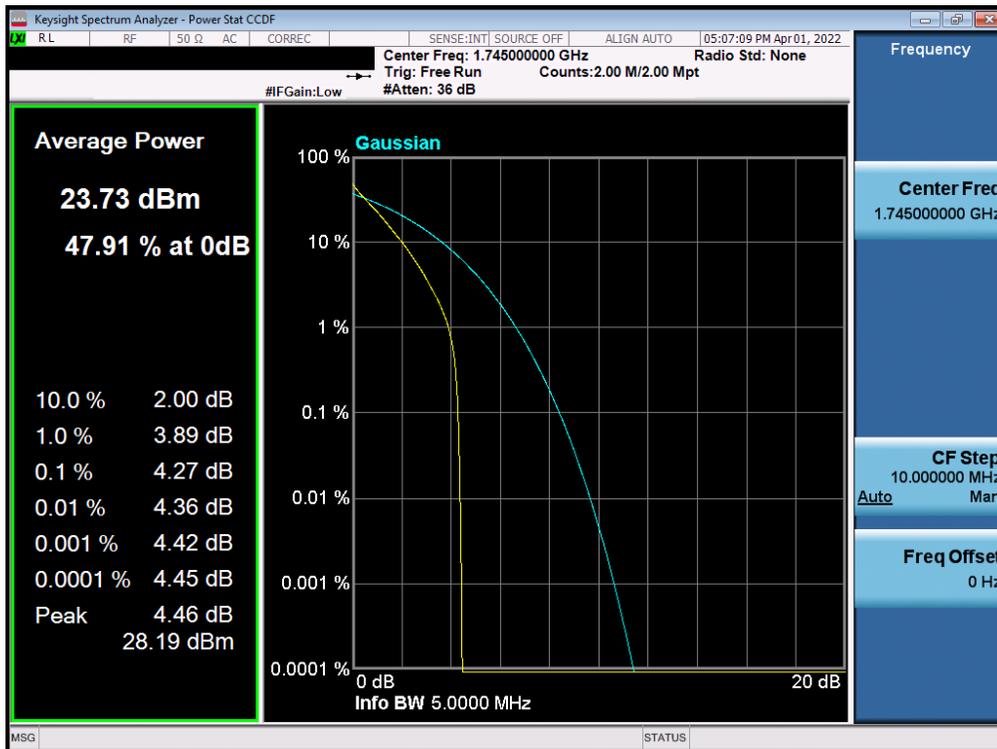


Plot 7-267. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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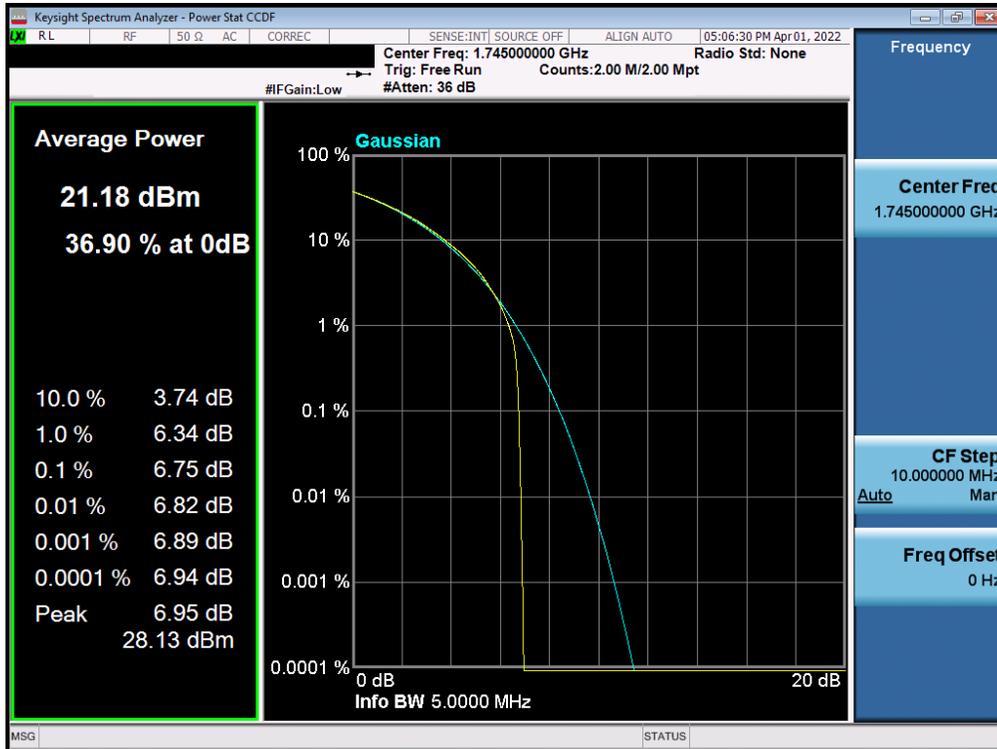


Plot 7-268. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB - Main Ant)

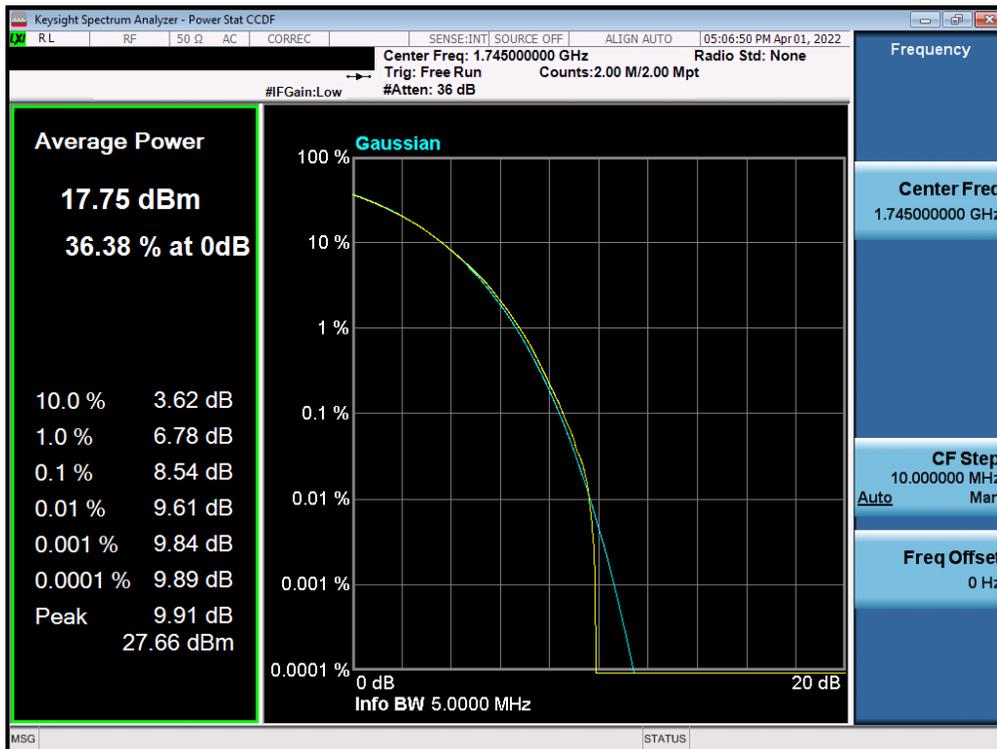


Plot 7-269. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB - Main Ant)

FCC ID: PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-270. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB - Main Ant)



Plot 7-271. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM 256-QAM - Full RB - Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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

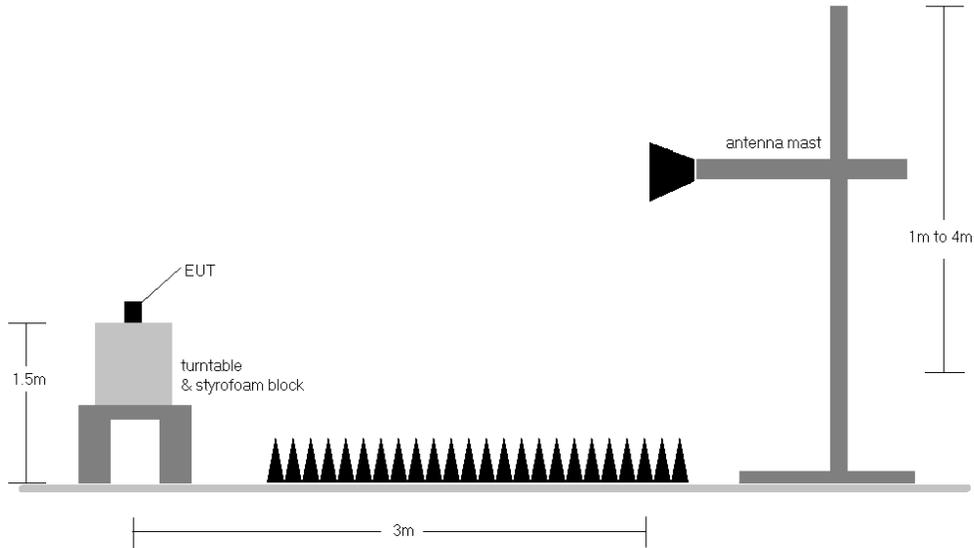
1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW  $\geq 3 \times$  RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $\geq 2 \times$  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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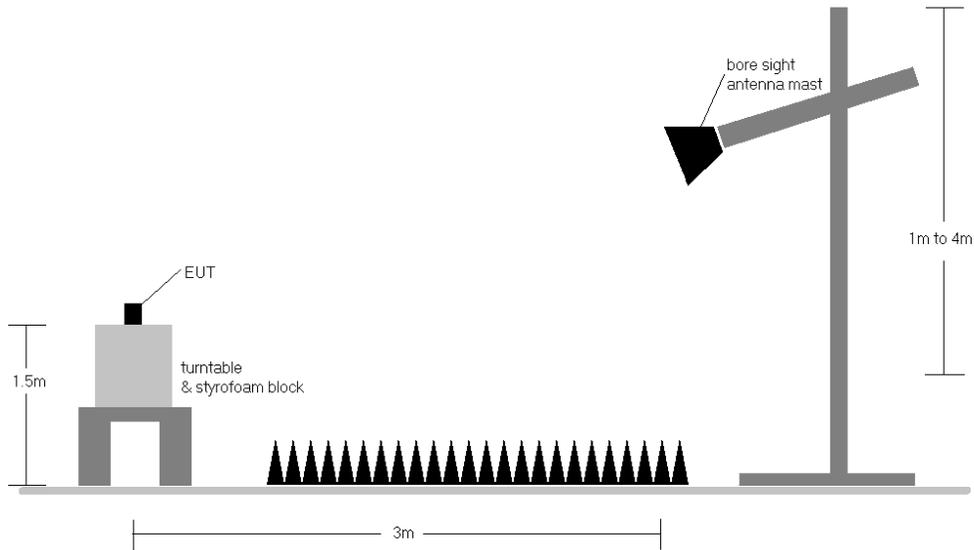
V3.0 1/5/2022

**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**

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**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) This unit was tested with its standard battery.
- 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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V3.0 1/5/2022



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	H	127	256	2.99	1 / 99	13.35	16.34	0.043	36.99	-20.65	14.19	0.026	34.77	-20.58
	QPSK	680.5	H	137	245	3.09	1 / 99	13.57	<b>16.66</b>	0.046	36.99	-20.33	<b>14.51</b>	0.028	34.77	-20.27
	QPSK	688.0	H	139	261	3.08	1 / 50	13.48	16.56	0.045	36.99	-20.43	14.41	0.028	34.77	-20.36
	16-QAM	688.0	H	139	261	3.08	1 / 50	12.77	15.85	0.038	36.99	-21.14	13.70	0.023	34.77	-21.07
15 MHz	QPSK	670.5	H	127	256	2.96	1 / 37	13.38	16.34	0.043	36.99	-20.65	14.19	0.026	34.77	-20.59
	QPSK	680.5	H	137	245	3.09	1 / 37	14.33	<b>17.42</b>	0.055	36.99	-19.57	<b>15.27</b>	0.034	34.77	-19.50
	QPSK	690.5	H	139	261	3.11	1 / 0	13.45	16.56	0.045	36.99	-20.43	14.41	0.028	34.77	-20.36
	16-QAM	680.5	H	137	245	3.09	1 / 37	13.33	16.41	0.044	36.99	-20.58	14.26	0.027	34.77	-20.51
10 MHz	QPSK	668.0	H	127	256	2.92	1 / 49	13.58	16.50	0.045	36.99	-20.49	14.35	0.027	34.77	-20.42
	QPSK	680.5	H	137	245	3.09	1 / 25	14.59	<b>17.68</b>	0.059	36.99	-19.31	<b>15.53</b>	0.036	34.77	-19.24
	QPSK	693.0	H	139	261	3.14	1 / 49	13.52	16.67	0.046	36.99	-20.32	14.52	0.028	34.77	-20.25
	16-QAM	680.5	H	137	245	3.09	1 / 25	13.40	16.48	0.044	36.99	-20.51	14.33	0.027	34.77	-20.44
5 MHz	QPSK	665.5	H	127	256	2.94	1 / 12	13.45	16.39	0.044	36.99	-20.60	14.24	0.027	34.77	-20.53
	QPSK	680.5	H	137	245	3.09	1 / 24	14.49	<b>17.58</b>	0.057	36.99	-19.41	<b>15.43</b>	0.035	34.77	-19.35
	QPSK	695.5	H	139	261	3.18	1 / 12	13.77	16.95	0.050	36.99	-20.04	14.80	0.030	34.77	-19.97
	16-QAM	680.5	H	137	245	3.09	1 / 24	13.27	16.36	0.043	36.99	-20.63	14.21	0.026	34.77	-20.57
20 MHz	Opposite Pol.	680.5	V	200	268	3.09	1 / 20	12.42	15.51	0.036	36.99	-21.48	13.36	0.022	34.77	-21.42
	WCP	680.5	H	134	235	3.09	1 / 49	12.01	15.10	0.032	36.99	-21.89	12.95	0.020	34.77	-21.83

Table 7-6. ERP Data (LTE Band 71 – 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	704.0	V	193	272	3.58	1 / 49	8.75	<b>12.33</b>	0.017	36.99	-24.66	<b>10.18</b>	0.010	34.77	-24.59
	QPSK	707.5	V	194	260	3.62	1 / 25	8.61	12.23	0.017	36.99	-24.76	10.08	0.010	34.77	-24.69
	QPSK	711.0	V	187	279	3.67	1 / 0	8.57	12.24	0.017	36.99	-24.75	10.09	0.010	34.77	-24.68
	16-QAM	704.0	V	193	272	3.58	1 / 49	8.22	11.80	0.015	36.99	-25.19	9.65	0.009	34.77	-25.12
5 MHz	QPSK	701.5	V	193	272	3.55	1 / 0	9.18	<b>12.73</b>	0.019	36.99	-24.26	<b>10.58</b>	0.011	34.77	-24.20
	QPSK	707.5	V	194	260	3.62	1 / 12	8.74	12.37	0.017	36.99	-24.62	10.22	0.011	34.77	-24.55
	QPSK	713.5	V	187	279	3.80	1 / 12	8.47	12.27	0.017	36.99	-24.72	10.12	0.010	34.77	-24.65
	16-QAM	701.5	V	193	272	3.55	1 / 12	8.38	11.93	0.016	36.99	-25.06	9.78	0.010	34.77	-24.99
3 MHz	QPSK	700.5	V	193	272	3.54	1 / 7	9.00	<b>12.54</b>	0.018	36.99	-24.45	<b>10.39</b>	0.011	34.77	-24.38
	QPSK	707.5	V	194	260	3.62	1 / 7	8.63	12.26	0.017	36.99	-24.73	10.11	0.010	34.77	-24.66
	QPSK	714.5	V	187	279	3.81	1 / 7	8.30	12.11	0.016	36.99	-24.88	9.96	0.010	34.77	-24.81
	16-QAM	700.5	V	193	272	3.54	1 / 7	8.34	11.88	0.015	36.99	-25.11	9.73	0.009	34.77	-25.04
1.4 MHz	QPSK	699.7	V	193	272	3.53	1 / 0	9.06	<b>12.59</b>	0.018	36.99	-24.40	<b>10.44</b>	0.011	34.77	-24.33
	QPSK	707.5	V	194	260	3.62	1 / 0	8.61	12.23	0.017	36.99	-24.76	10.08	0.010	34.77	-24.69
	QPSK	715.3	V	187	279	3.85	1 / 5	8.20	12.05	0.016	36.99	-24.94	9.90	0.010	34.77	-24.87
	16-QAM	699.7	V	193	272	3.53	1 / 0	8.51	12.03	0.016	36.99	-24.96	9.88	0.010	34.77	-24.89
10 MHz	Opposite Pol.	704.0	H	146	275	3.48	1 / 25	8.59	12.07	0.016	36.99	-24.92	9.92	0.010	34.77	-24.85
	WCP	704.0	H	146	275	3.48	1 / 25	6.19	9.67	0.009	36.99	-27.32	7.52	0.006	34.77	-27.25

Table 7-7. 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	V	153	263	5.99	1 / 49	14.71	<b>20.70</b>	0.118	36.99	-16.29	<b>18.55</b>	0.072	34.77	-16.22
	16-QAM	782.0	V	153	263	5.99	1 / 49	14.08	20.07	0.102	36.99	-16.92	17.92	0.062	34.77	-16.85
5 MHz	QPSK	779.5	V	153	263	5.97	1 / 0	14.72	<b>20.68</b>	0.117	36.99	-16.31	<b>18.53</b>	0.071	34.77	-16.24
	QPSK	782.0	V	153	263	5.99	1 / 0	14.69	20.68	0.117	36.99	-16.31	18.53	0.071	34.77	-16.24
	QPSK	784.5	V	153	263	6.07	1 / 12	14.53	20.60	0.115	36.99	-16.39	18.45	0.070	34.77	-16.32
	16-QAM	779.5	V	153	263	5.97	1 / 0	14.16	20.13	0.103	36.99	-16.86	17.98	0.063	34.77	-16.80
10 MHz	Opposite Pol.	782.0	H	102	274	6.09	1 / 25	13.57	19.66	0.093	36.99	-17.33	17.51	0.056	34.77	-17.26
	WCP	782.0	H	110	259	6.09	1 / 49	10.82	16.71	0.047	36.99	-20.28	14.56	0.029	34.77	-20.21

Table 7-8. ERP Data (LTE Band 13 – Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 164 of 206



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	H	127	263	2.99	1 / 26	13.72	16.71	0.047	36.99	-20.28	14.56	0.029	34.77	-20.21
	π/2 BPSK	680.5	H	141	257	3.09	1 / 79	13.51	16.60	0.046	36.99	-20.39	14.45	0.028	34.77	-20.33
	π/2 BPSK	688.0	H	141	258	3.08	1 / 26	13.41	16.49	0.045	36.99	-20.50	14.34	0.027	34.77	-20.43
	QPSK	673.0	H	127	263	2.99	1 / 26	13.78	<b>16.77</b>	0.048	36.99	-20.22	<b>14.62</b>	0.029	34.77	-20.15
	QPSK	680.5	H	141	257	3.09	1 / 79	13.52	16.61	0.046	36.99	-20.38	14.46	0.028	34.77	-20.32
	QPSK	688.0	H	141	258	3.08	1 / 53	13.42	16.50	0.045	36.99	-20.49	14.35	0.027	34.77	-20.42
15 MHz	16-QAM	673.0	H	127	263	2.99	1 / 26	12.79	15.78	0.038	36.99	-21.21	13.63	0.023	34.77	-21.14
	π/2 BPSK	670.5	H	127	263	2.96	1 / 20	13.76	16.72	0.047	36.99	-20.27	14.57	0.029	34.77	-20.20
	π/2 BPSK	680.5	H	141	257	3.09	1 / 20	13.48	16.57	0.045	36.99	-20.42	14.42	0.028	34.77	-20.35
	π/2 BPSK	690.5	H	141	258	3.11	1 / 58	13.29	16.40	0.044	36.99	-20.59	14.25	0.027	34.77	-20.52
	QPSK	670.5	H	127	263	2.96	1 / 20	13.64	16.60	0.046	36.99	-20.39	14.45	0.028	34.77	-20.32
	QPSK	680.5	H	141	257	3.09	1 / 20	13.85	<b>16.93</b>	0.049	36.99	-20.05	<b>14.78</b>	0.030	34.77	-19.99
10 MHz	QPSK	690.5	H	141	258	3.11	1 / 58	13.30	16.42	0.044	36.99	-20.57	14.27	0.027	34.77	-20.51
	16-QAM	680.5	H	141	257	3.09	1 / 20	13.10	16.18	0.042	36.99	-20.81	14.03	0.025	34.77	-20.74
	π/2 BPSK	668.0	H	127	263	2.92	1 / 26	13.66	16.58	0.046	36.99	-20.41	14.43	0.028	34.77	-20.34
	π/2 BPSK	680.5	H	141	257	3.09	1 / 13	13.31	16.40	0.044	36.99	-20.59	14.25	0.027	34.77	-20.53
	π/2 BPSK	693.0	H	141	258	3.14	1 / 13	13.12	16.27	0.042	36.99	-20.72	14.12	0.026	34.77	-20.65
	QPSK	668.0	H	127	263	2.92	1 / 26	13.60	16.53	0.045	36.99	-20.46	14.38	0.027	34.77	-20.39
5 MHz	QPSK	680.5	H	141	257	3.09	1 / 13	13.54	<b>16.63</b>	0.046	36.99	-20.36	<b>14.48</b>	0.028	34.77	-20.29
	QPSK	693.0	H	141	258	3.14	1 / 13	13.31	16.46	0.044	36.99	-20.53	14.31	0.027	34.77	-20.46
	16-QAM	680.5	H	141	257	3.09	1 / 13	12.94	16.02	0.040	36.99	-20.97	13.87	0.024	34.77	-20.90
	π/2 BPSK	665.5	H	127	263	2.94	1 / 6	13.93	<b>16.88</b>	0.049	36.99	-20.11	<b>14.73</b>	0.030	34.77	-20.04
	π/2 BPSK	680.5	H	141	257	3.09	1 / 18	13.58	16.67	0.046	36.99	-20.32	14.52	0.028	34.77	-20.26
	π/2 BPSK	695.5	H	141	258	3.18	1 / 6	13.08	16.26	0.042	36.99	-20.73	14.11	0.026	34.77	-20.66
20 MHz	QPSK	665.5	H	127	263	2.94	1 / 6	13.72	16.67	0.046	36.99	-20.32	14.52	0.028	34.77	-20.25
	QPSK	680.5	H	141	257	3.09	1 / 18	13.50	16.58	0.046	36.99	-20.40	14.43	0.028	34.77	-20.34
	QPSK	695.5	H	141	258	3.18	1 / 6	13.21	16.38	0.043	36.99	-20.61	14.23	0.026	34.77	-20.54
	16-QAM	680.5	H	141	257	3.09	1 / 18	12.76	15.85	0.038	36.99	-21.14	13.70	0.023	34.77	-21.07
20 MHz	QPSK (CP-OFDM)	673.0	H	127	263	2.99	1/53	11.84	14.83	0.030	36.99	-22.16	12.68	0.019	34.77	-22.09
	QPSK (Opposite Pol.)	673.0	V	176	253	2.89	1/53	12.93	15.82	0.038	36.99	-21.17	13.67	0.023	34.77	-21.10
	QPSK (WCP)	673.0	H	127	263	2.99	1/26	10.08	13.07	0.020	36.99	-23.92	10.92	0.012	34.77	-23.85

Table 7-9. EIRP Data (NR Band n71 – 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	159	339	8.70	9.47	18.17	0.066	30.00	-11.83
1732.60	WCDMA1700	V	146	324	11.16	9.15	<b>20.31</b>	<b>0.107</b>	30.00	-9.69
1752.60	WCDMA1700	V	114	332	9.75	9.05	18.80	0.076	30.00	-11.20
1732.60	WCDMA1700	H	247	336	10.10	9.49	19.59	0.091	30.00	-10.41
1732.60	WCDMA1700 (WCP)	H	240	338	9.96	9.49	19.45	0.088	30.00	-10.55

Table 7-10. EIRP Data (WCDMA AWS – Main Ant)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 165 of 206

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	239	347	9.47	1 / 99	10.74	20.21	0.105	30.00	-9.79
	QPSK	1745.0	H	231	350	9.48	1 / 50	11.52	<b>21.00</b>	0.126	30.00	-9.00
	QPSK	1770.0	H	227	349	9.39	1 / 0	10.47	19.86	0.097	30.00	-10.14
	16-QAM	1745.0	H	231	350	9.48	1 / 50	10.80	20.28	0.107	30.00	-9.72
15 MHz	QPSK	1717.5	H	239	347	9.49	1 / 37	10.65	20.15	0.103	30.00	-9.85
	QPSK	1745.0	H	231	350	9.48	1 / 37	11.48	<b>20.96</b>	0.125	30.00	-9.04
	QPSK	1772.5	H	227	349	9.36	1 / 0	10.49	19.85	0.097	30.00	-10.15
	16-QAM	1745.0	H	231	350	9.48	1 / 37	10.50	19.98	0.100	30.00	-10.02
10 MHz	QPSK	1715.0	H	239	347	9.52	1 / 49	10.76	20.28	0.107	30.00	-9.72
	QPSK	1745.0	H	231	350	9.48	1 / 49	11.54	<b>21.02</b>	0.126	30.00	-8.98
	QPSK	1775.0	H	227	349	9.34	1 / 0	10.65	19.98	0.100	30.00	-10.02
	16-QAM	1745.0	H	231	350	9.48	1 / 49	10.56	20.04	0.101	30.00	-9.96
5 MHz	QPSK	1712.5	H	239	347	9.54	1 / 0	10.70	20.24	0.106	30.00	-9.76
	QPSK	1745.0	H	231	350	9.48	1 / 0	11.59	<b>21.07</b>	0.128	30.00	-8.93
	QPSK	1777.5	H	227	349	9.31	1 / 12	10.75	20.06	0.101	30.00	-9.94
	16-QAM	1745.0	H	231	350	9.48	1 / 0	10.40	19.88	0.097	30.00	-10.12
3 MHz	QPSK	1711.5	H	239	347	9.55	1 / 7	10.74	20.29	0.107	30.00	-9.71
	QPSK	1745.0	H	231	350	9.48	1 / 0	11.52	<b>21.00</b>	0.126	30.00	-9.00
	QPSK	1778.5	H	227	349	9.30	1 / 7	10.70	20.01	0.100	30.00	-9.99
	16-QAM	1745.0	H	231	350	9.48	1 / 0	10.54	20.02	0.100	30.00	-9.98
1.4 MHz	QPSK	1710.7	H	239	347	9.56	1 / 3	10.72	20.28	0.107	30.00	-9.72
	QPSK	1745.0	H	231	350	9.48	1 / 3	11.59	<b>21.07</b>	0.128	30.00	-8.93
	QPSK	1779.3	H	227	349	9.29	1 / 0	10.66	19.96	0.099	30.00	-10.04
	16-QAM	1745.0	H	231	350	9.48	1 / 3	10.61	20.09	0.102	30.00	-9.91
20 MHz	Opposite Pol.	1745.0	V	147	130	9.03	1/99	11.38	20.41	0.110	30.00	-9.59
	WCP	1745.0	H	231	350	9.48	1/50	10.08	19.56	0.090	30.00	-10.44

Table 7-11. EIRP Data (LTE Band 66/4 – 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]
20 MHz	$\pi/2$ BPSK	1720.0	H	233	341	9.47	1 / 79	11.65	21.12	0.129	30.00	-8.88
	$\pi/2$ BPSK	1745.0	H	231	346	9.48	1 / 26	12.44	<b>21.92</b>	0.156	30.00	-8.08
	$\pi/2$ BPSK	1770.0	H	222	351	9.39	1 / 26	10.84	20.23	0.105	30.00	-9.77
	QPSK	1720.0	H	233	341	9.47	1 / 79	11.35	20.82	0.121	30.00	-9.18
	QPSK	1745.0	H	231	346	9.48	1 / 26	12.10	21.58	0.144	30.00	-8.42
	QPSK	1770.0	H	222	351	9.39	1 / 26	10.69	20.08	0.102	30.00	-9.92
	16-QAM	1745.0	H	231	346	9.48	1 / 26	9.78	19.26	0.084	30.00	-10.74
15 MHz	$\pi/2$ BPSK	1717.5	H	233	341	9.49	1 / 20	11.66	21.15	0.130	30.00	-8.85
	$\pi/2$ BPSK	1745.0	H	231	346	9.48	1 / 20	12.50	<b>21.98</b>	0.158	30.00	-8.02
	$\pi/2$ BPSK	1772.5	H	222	351	9.36	1 / 58	10.79	20.16	0.104	30.00	-9.84
	QPSK	1717.5	H	233	341	9.49	1 / 20	11.36	20.85	0.122	30.00	-9.15
	QPSK	1745.0	H	231	346	9.48	1 / 20	12.16	21.64	0.146	30.00	-8.36
	QPSK	1772.5	H	222	351	9.36	1 / 58	10.80	20.17	0.104	30.00	-9.83
	16-QAM	1717.5	H	233	341	9.49	1 / 20	9.53	19.02	0.080	30.00	-10.98
10 MHz	$\pi/2$ BPSK	1715.0	H	233	341	9.52	1 / 38	11.53	21.05	0.127	30.00	-8.95
	$\pi/2$ BPSK	1745.0	H	231	346	9.48	1 / 38	12.31	<b>21.79</b>	0.151	30.00	-8.21
	$\pi/2$ BPSK	1775.0	H	222	351	9.34	1 / 13	10.81	20.15	0.103	30.00	-9.85
	QPSK	1715.0	H	233	341	9.52	1 / 26	11.12	20.64	0.116	30.00	-9.36
	QPSK	1745.0	H	231	346	9.48	1 / 38	11.99	21.47	0.140	30.00	-8.53
	QPSK	1775.0	H	222	351	9.34	1 / 13	10.79	20.13	0.103	30.00	-9.87
5 MHz	16-QAM	1745.0	H	231	346	9.48	1 / 38	9.30	18.78	0.076	30.00	-11.22
	$\pi/2$ BPSK	1712.5	H	233	341	9.54	1 / 18	11.45	21.00	0.126	30.00	-9.00
	$\pi/2$ BPSK	1745.0	H	231	346	9.48	1 / 12	12.41	<b>21.89</b>	0.155	30.00	-8.11
	$\pi/2$ BPSK	1777.5	H	222	351	9.31	1 / 6	10.68	19.99	0.100	30.00	-10.01
	QPSK	1712.5	H	233	341	9.54	1 / 18	10.99	20.53	0.113	30.00	-9.47
	QPSK	1745.0	H	231	346	9.48	1 / 12	11.97	21.45	0.140	30.00	-8.55
20 MHz	QPSK	1777.5	H	222	351	9.31	1 / 6	10.73	20.04	0.101	30.00	-9.96
	16-QAM	1745.0	H	231	346	9.48	1 / 12	9.50	18.98	0.079	30.00	-11.02
	QPSK (CP-OFDM)	1745.0	H	231	346	9.48	1/53	9.63	19.11	0.081	30.00	-10.89
	QPSK (Opposite Pol.)	1745.0	V	144	146	9.03	1/53	10.37	19.40	0.087	30.00	-10.60
	QPSK (WCP)	1745.0	H	231	346	9.48	1/26	11.38	20.86	0.122	30.00	-9.14

Table 7-12. EIRP Data (NR Band n66 – Main Ant)

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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]
10 MHz	QPSK	704.0	H	132	258	3.48	1 / 49	16.47	19.95	0.099	36.99	-17.04	17.80	0.060	34.77	-16.97
	QPSK	707.5	H	130	259	3.52	1 / 49	16.84	20.36	0.109	36.99	-16.63	18.21	0.066	34.77	-16.56
	QPSK	711.0	H	126	254	3.57	1 / 49	16.92	<b>20.49</b>	0.112	36.99	-16.50	<b>18.34</b>	0.068	34.77	-16.43
	16-QAM	707.5	H	130	259	3.52	1 / 49	15.98	19.50	0.089	36.99	-17.49	17.35	0.054	34.77	-17.42
5 MHz	QPSK	701.5	H	132	258	3.45	1 / 24	16.35	19.80	0.096	36.99	-17.19	17.65	0.058	34.77	-17.12
	QPSK	707.5	H	130	259	3.52	1 / 24	16.76	20.28	0.107	36.99	-16.71	18.13	0.065	34.77	-16.64
	QPSK	713.5	H	126	254	3.70	1 / 12	16.80	<b>20.50</b>	0.112	36.99	-16.49	<b>18.35</b>	0.068	34.77	-16.42
	16-QAM	713.5	H	126	254	3.70	1 / 12	15.61	19.31	0.085	36.99	-17.68	17.16	0.052	34.77	-17.61
3 MHz	QPSK	700.5	H	132	258	3.39	1 / 0	16.53	19.92	0.098	36.99	-17.07	17.77	0.060	34.77	-17.00
	QPSK	707.5	H	130	259	3.52	1 / 14	16.84	20.37	0.109	36.99	-16.62	18.22	0.066	34.77	-16.55
	QPSK	714.5	H	126	254	3.71	1 / 7	16.75	<b>20.46</b>	0.111	36.99	-16.53	<b>18.31</b>	0.068	34.77	-16.46
	16-QAM	714.5	H	126	254	3.71	1 / 7	15.72	19.43	0.088	36.99	-17.56	17.28	0.053	34.77	-17.49
1.4 MHz	QPSK	699.7	H	132	258	3.33	1 / 0	16.66	19.98	0.100	36.99	-17.01	17.83	0.061	34.77	-16.94
	QPSK	707.5	H	130	259	3.52	1 / 5	16.81	20.33	0.108	36.99	-16.66	18.18	0.066	34.77	-16.59
	QPSK	715.3	H	126	254	3.72	1 / 3	16.65	<b>20.37</b>	0.109	36.99	-16.62	<b>18.22</b>	0.066	34.77	-16.55
	16-QAM	707.5	H	130	259	3.52	1 / 5	15.92	19.45	0.088	36.99	-17.54	17.30	0.054	34.77	-17.48
10 MHz	Opposite Pol.	711.0	V	134	216	3.67	1/49	15.18	18.85	0.077	36.99	-18.14	16.70	0.047	34.77	-18.07
	WCP	711.0	H	126	254	3.57	1/25	14.62	18.19	0.066	36.99	-18.80	16.04	0.040	34.77	-18.73

Table 7-13. ERP Data (LTE Band 12/17 – 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	232	264	6.09	1 / 0	15.80	<b>21.89</b>	0.155	36.99	-15.10	<b>19.74</b>	0.094	34.77	-15.03
	16-QAM	782.0	H	232	264	6.09	1 / 0	14.93	21.02	0.127	36.99	-15.97	18.87	0.077	34.77	-15.90
5 MHz	QPSK	779.5	H	232	264	5.97	1 / 0	15.87	21.84	0.153	36.99	-15.15	19.69	0.093	34.77	-15.09
	QPSK	782.0	H	232	264	6.09	1 / 12	15.62	21.71	0.148	36.99	-15.28	19.56	0.090	34.77	-15.21
	QPSK	784.5	H	232	264	6.17	1 / 12	15.70	<b>21.87</b>	0.154	36.99	-15.12	<b>19.72</b>	0.094	34.77	-15.05
	16-QAM	784.5	H	232	264	6.17	1 / 12	14.78	20.95	0.124	36.99	-16.04	18.80	0.076	34.77	-15.97
10 MHz	Opposite Pol.	782.0	V	156	177	5.99	1/49	13.38	19.37	0.087	36.99	-17.62	17.22	0.053	34.77	-17.55
	WCP	782.0	H	232	264	6.09	1/0	14.07	20.16	0.104	36.99	-16.83	18.01	0.063	34.77	-16.76

Table 7-14. 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

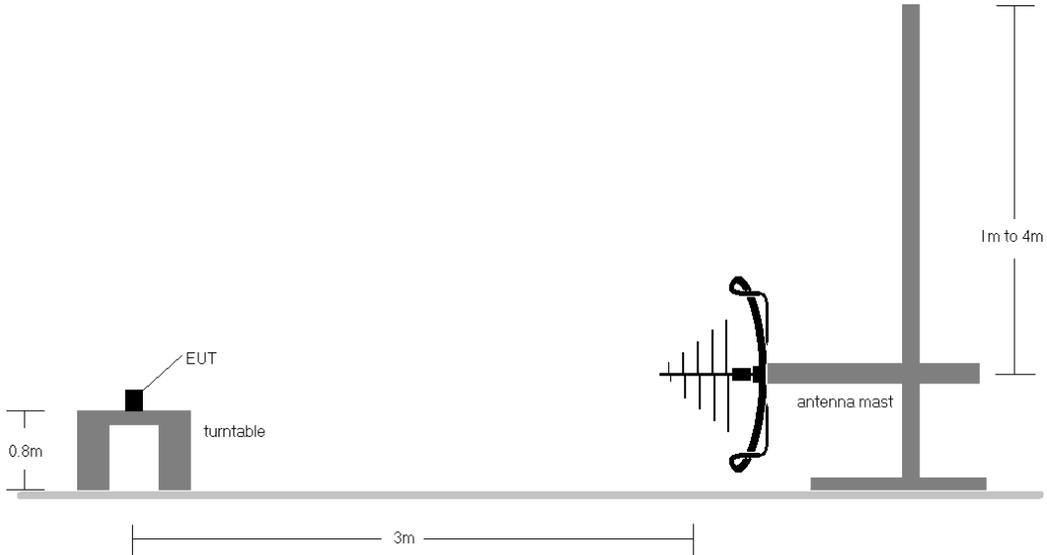
1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq 2 \times$  span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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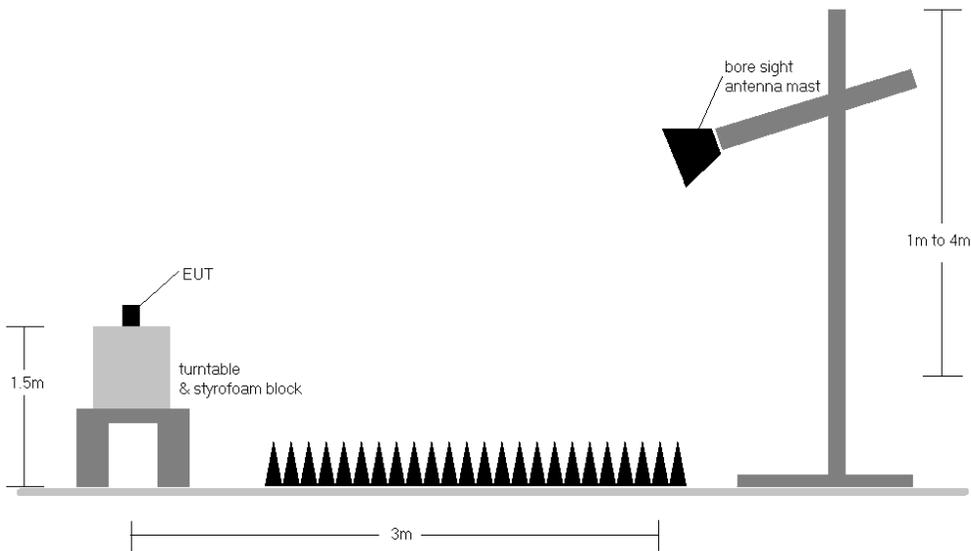
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**Test Setup**

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**

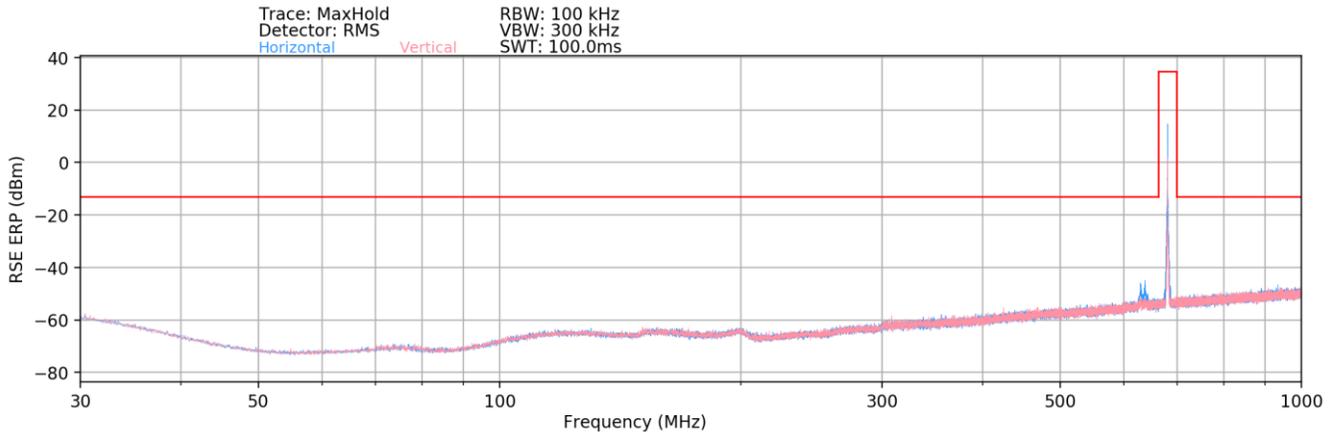
<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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**Test Notes**

- 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 – Main Ant



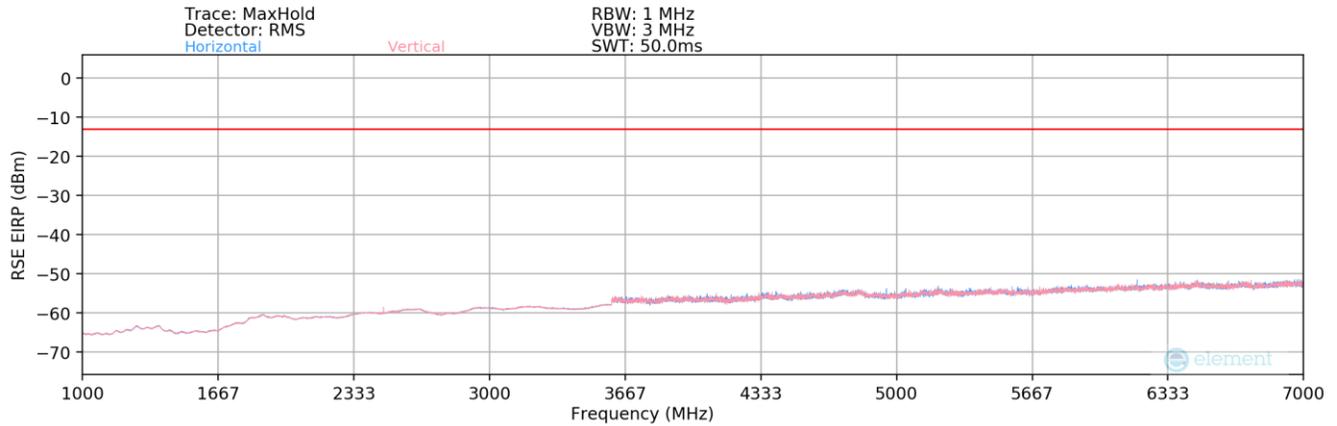
**Plot 7-272. Radiated Spurious Plot (LTE Band 71 – Main Ant – 30MHz-1GHz)**

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]
629.40	H	250	347	-85.36	27.68	49.32	-45.94	-13.00	-32.94
637.65	H	250	356	-85.23	27.86	49.63	-45.63	-13.00	-32.63

**Table 7-15. Radiated Spurious Data (LTE Band 71 — Main Ant – 30MHz - 1GHz)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-273. Radiated Spurious Plot (LTE Band 71 – Main Ant – 7GHz)**

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	-	-	-76.95	-2.80	27.25	-68.00	-13.00	-55.00
2019.00	V	-	-	-76.73	-0.39	29.88	-65.37	-13.00	-52.37
2692.00	V	-	-	-77.66	1.26	30.60	-64.66	-13.00	-51.66

**Table 7-16. Radiated Spurious Data (LTE Band 71 – Low Channel – Main Ant)**

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	-	-	-76.26	-2.59	28.15	-67.11	-13.00	-54.11
2041.50	V	-	-	-76.98	-0.57	29.45	-65.81	-13.00	-52.81
2722.00	V	-	-	-77.29	0.72	30.43	-64.83	-13.00	-51.83

**Table 7-17. Radiated Spurious Data (LTE Band 71 – Mid Channel – Main Ant)**

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

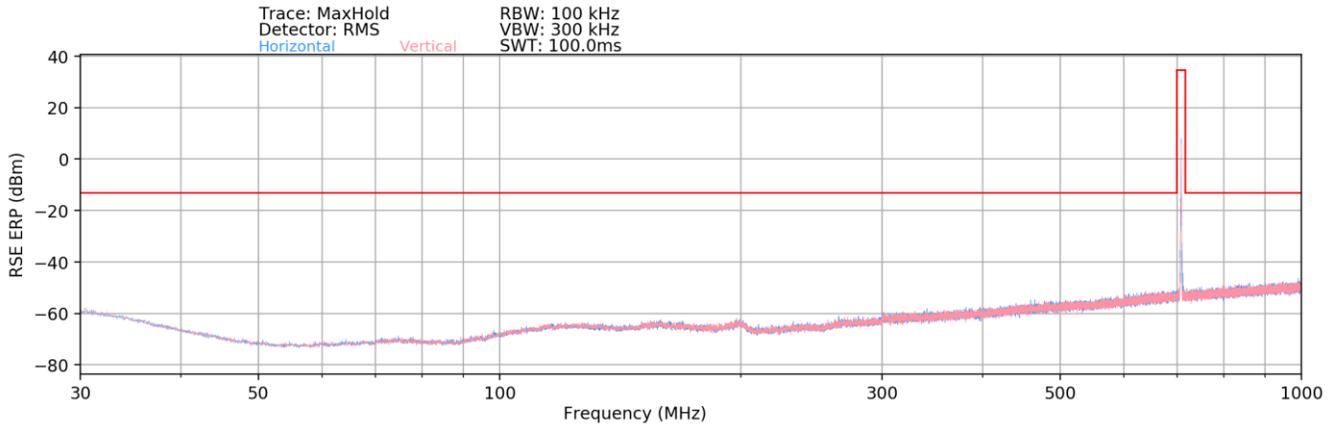
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	V	149	173	-76.41	-2.79	27.80	-67.45	-13.00	-54.45
2064.00	V	-	-	-77.08	-0.52	29.40	-65.86	-13.00	-52.86
2752.00	V	-	-	-77.41	0.49	30.08	-65.17	-13.00	-52.17
3440.00	V	-	-	-77.53	1.67	31.14	-64.11	-13.00	-51.11

**Table 7-18. Radiated Spurious Data (LTE Band 71 – High Channel – Main Ant)**

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## LTE Band 12/17 – Main Ant



**Plot 7-274. Radiated Spurious Plot (LTE Band 12/17 – Main Ant -30MHz-1GHz)**

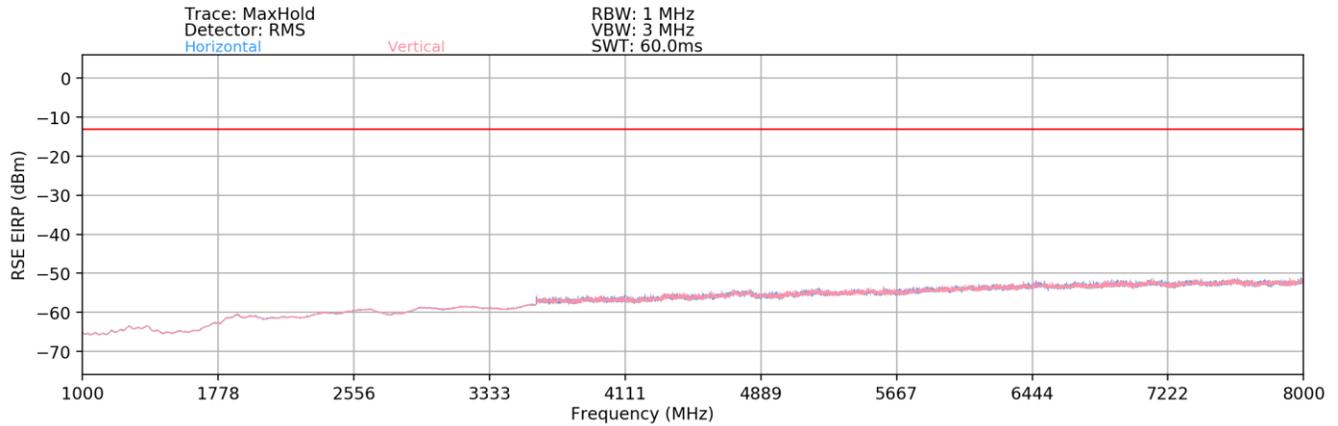
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

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]
984.00	H	-	-	-88.91	31.89	49.98	-45.28	-13.00	-32.28

**Table 7-19. Radiated Spurious Data (LTE Band 12/17– Main Ant – 30MHz - 1GHz)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-275. Radiated Spurious Plot (LTE Band 12/17 – Main Ant – 1-8GHz)**

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	H	-	-	-77.14	-3.69	26.17	-69.09	-13.00	-56.09
2112.00	H	145	146	-77.23	-0.26	29.51	-65.75	-13.00	-52.75
2816.00	H	-	-	-77.34	0.80	30.46	-64.80	-13.00	-51.80
3520.00	H	-	-	-77.36	2.19	31.83	-63.43	-13.00	-50.43
4224.00	H	-	-	-77.21	2.93	32.72	-62.54	-13.00	-49.54

**Table 7-20. 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	H	245	152	-76.38	-3.79	26.83	-68.43	-13.00	-55.43
2122.50	H	145	52	-77.01	-0.25	29.74	-65.51	-13.00	-52.51
2830.00	H	-	-	-77.53	0.83	30.30	-64.96	-13.00	-51.96
3537.50	H	-	-	-77.38	2.43	32.05	-63.20	-13.00	-50.20
4245.00	H	-	-	-77.64	3.01	32.37	-62.89	-13.00	-49.89

**Table 7-21. Radiated Spurious Data (LTE Band 12/17 – Mid Channel – Main Ant)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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	H	235	155	-75.91	-3.83	27.26	-68.00	-13.00	-55.00
2133.00	H	395	65	-76.62	-0.22	30.16	-65.10	-13.00	-52.10
2844.00	H	-	-	-77.42	0.93	30.51	-64.75	-13.00	-51.75
3555.00	H	-	-	-77.62	2.76	32.14	-63.12	-13.00	-50.12
4266.00	H	-	-	-77.77	3.24	32.47	-62.79	-13.00	-49.79

**Table 7-22. Radiated Spurious Data (LTE Band 12/17 – High Channel – Main Ant)**

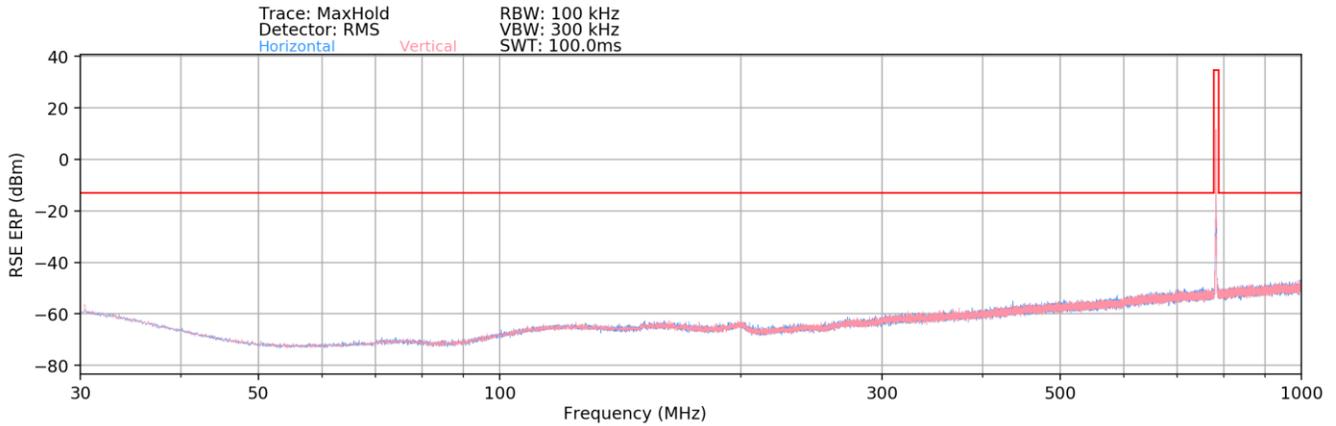
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## LTE Band 13 – Main Ant



**Plot 7-276. Radiated Spurious Plot (LTE Band 13 – Main Ant – 30MHz- 1GHz)**

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

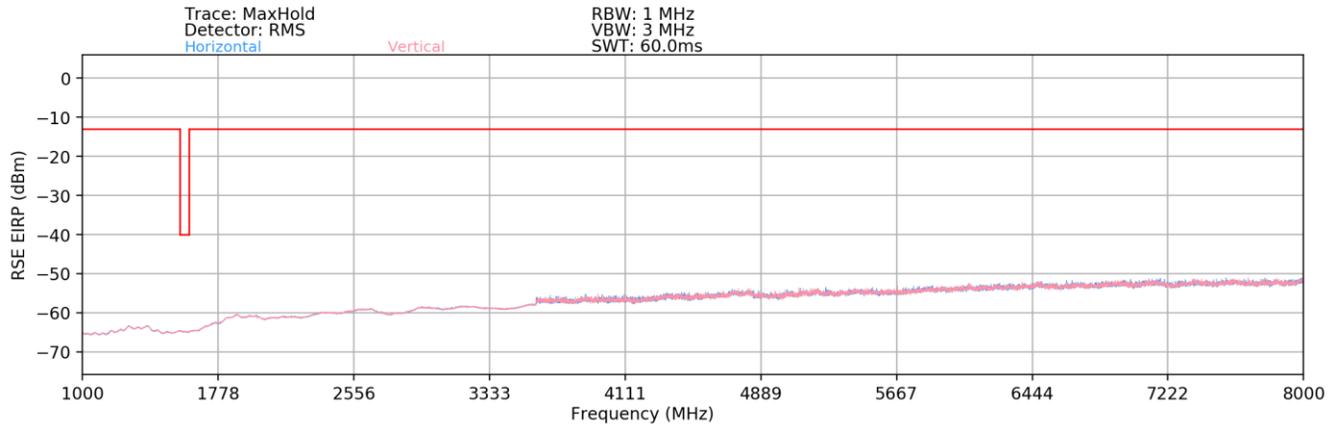
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
436.60	H	-	-	-96.97	24.60	34.63	-60.63	-13.00	-47.63

**Table 7-23. Radiated Spurious Data (LTE Band 13 – Main Ant – 30MHz - 1GHz)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-277. Radiated Spurious Plot (LTE Band 13 – Main Ant – 1-8GHz)**

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

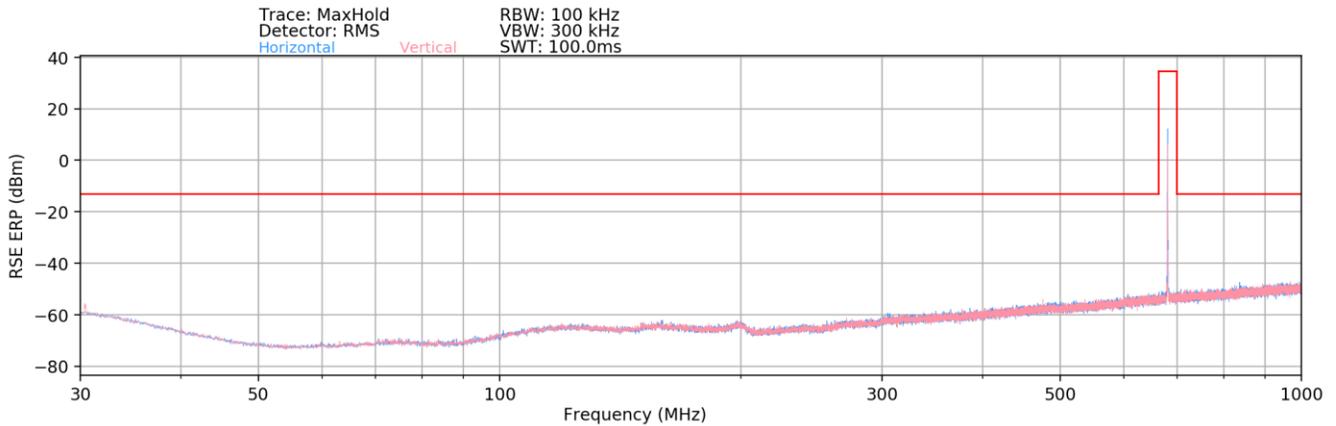
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	V	169	156	-75.76	-3.87	27.37	-67.89	-40.00	-27.89
2346.00	V	142	51	-77.51	0.64	30.13	-65.13	-13.00	-52.13
3128.00	V	-	-	-77.83	1.93	31.10	-64.16	-13.00	-51.16
3910.00	V	-	-	-78.56	3.09	31.53	-63.73	-13.00	-50.73
4692.00	V	-	-	-78.42	4.17	32.75	-62.50	-13.00	-49.50

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

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 177 of 206



## NR Band n71 – Main Ant



**Plot 7-278. Radiated Spurious Plot (NR Band n71 – Main Ant -30MHz - 1GHz)**

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

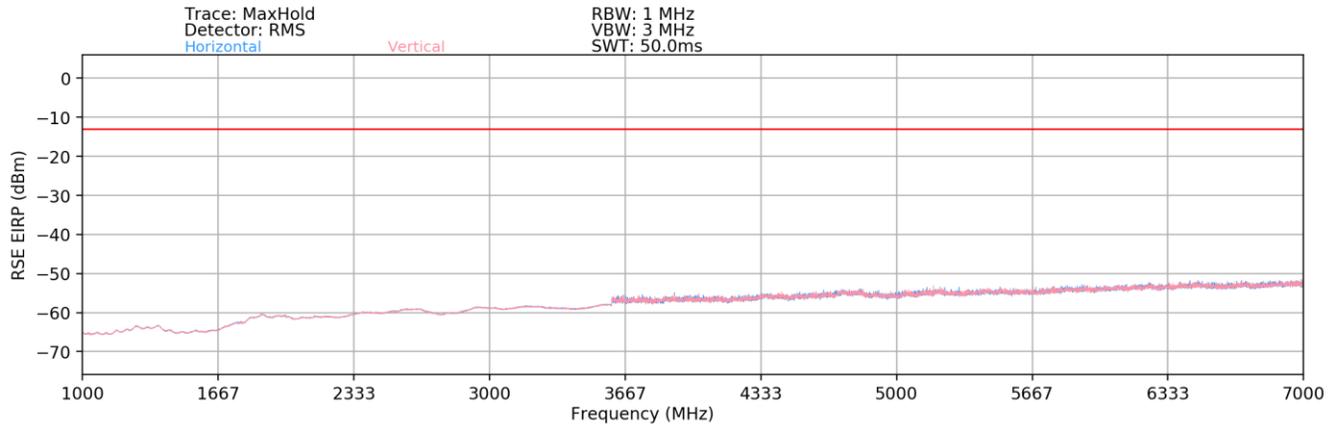
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
629.40	H	250	347	-85.36	27.68	49.32	-45.94	-13.00	-32.94
637.65	H	250	356	-85.23	27.86	49.63	-45.63	-13.00	-32.63

**Table 7-25. Radiated Spurious Data (NR Band n71 – Mid Channel – Main Ant – 30MHz- 1GHz)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 178 of 206

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**Plot 7-279. Radiated Spurious Plot (NR Band n71 – Main Ant – 1-7GHz)**

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	V	-	-	-77.16	-2.80	27.04	-68.21	-13.00	-55.21
2019.00	V	-	-	-76.41	-0.39	30.20	-65.05	-13.00	-52.05
2692.00	V	-	-	-77.23	1.26	31.03	-64.23	-13.00	-51.23

**Table 7-26. Radiated Spurious Data (NR Band n71 – Low Channel – Main Ant)**

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	V	-	-	-76.43	-2.59	27.98	-67.28	-13.00	-54.28
2041.50	V	-	-	-76.21	-0.57	30.22	-65.04	-13.00	-52.04
2722.00	V	-	-	-77.11	0.72	30.61	-64.65	-13.00	-51.65

**Table 7-27. Radiated Spurious Data (NR Band n71 – Mid Channel – Main Ant)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 179 of 206



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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	V	-	-	-76.02	-2.79	28.19	-67.06	-13.00	-54.06
2064.00	V	-	-	-76.73	-0.52	29.75	-65.51	-13.00	-52.51
2752.00	V	-	-	-77.05	0.49	30.44	-64.81	-13.00	-51.81

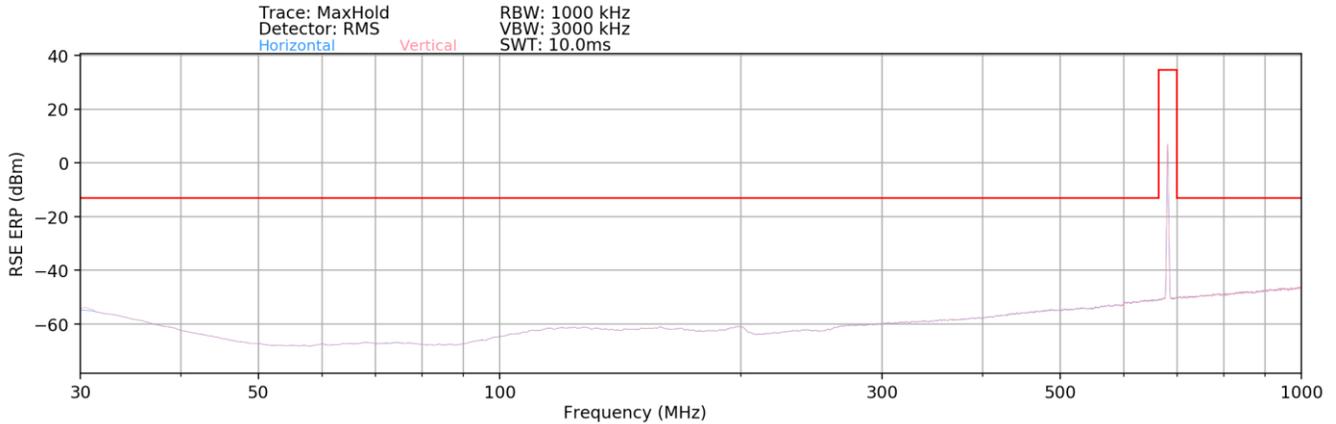
**Table 7-28. Radiated Spurious Data (NR Band n71 – High Channel – Main Ant)**

<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2201200003-07.PY7	<b>Test Dates:</b> 03/25/2022 - 05/21/2022	<b>EUT Type:</b> Portable Handset	Page 180 of 206

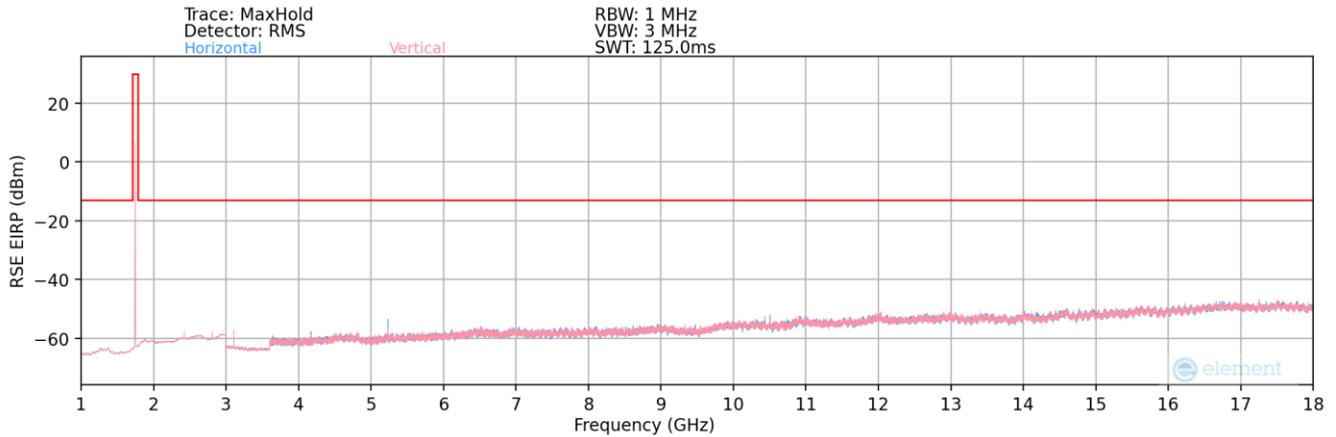
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## EN-DC: NR Band n71 – LTE Band 66



Plot 7-280. Radiated Spurious Plot (EN-DC: NR Band n71 -LTE Band 66 – Below 1GHz)



Plot 7-281. Radiated Spurious Plot (EN-DC: NR Band n71 -LTE Band 66 – Above 1GHz)

Bandwidth (MHz):	20 & 20
Frequency (MHz):	680.5 & 1745
RB / Offset:	1/53 & 1/50
Mode:	EN-DC
Anchor Band:	66

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]
977.0	H	-	-	-88.92	31.78	49.86	-45.40	-13.00	-32.40
2425.5	V	130	254	-77.04	0.63	30.59	-64.67	-13.00	-51.67
2809.5	V	227	190	-74.80	0.79	32.99	-62.26	-13.00	-49.26
3106.0	V	136	227	-75.79	3.13	34.34	-60.91	-13.00	-47.91
4171.5	H	314	211	-75.73	3.33	34.60	-60.65	-13.00	-47.65
5235.0	H	296	49	-68.94	5.03	43.09	-52.17	-13.00	-39.17
10508.0	H	-	-	-81.93	12.11	37.18	-58.08	-13.00	-45.08

Table 7-29. Radiated Spurious Data (EN-DC: NR Band n71 -LTE Band 66)

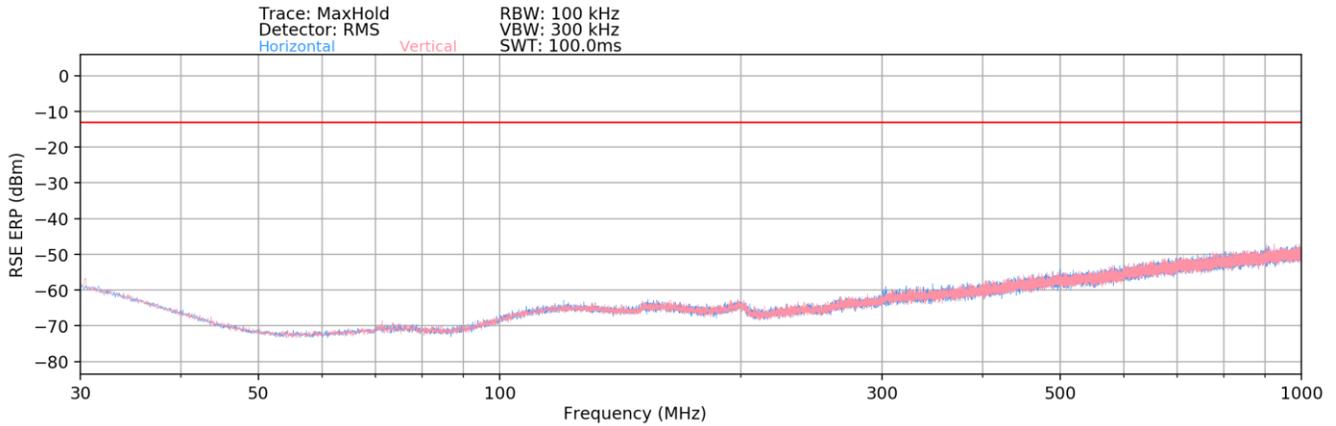
FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 181 of 206

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## WCDMA AWS – Main Ant



**Plot 7-282. Radiated Spurious Plot (WCDMA AWS – Main Ant – 30MHz - 1GHz)**

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

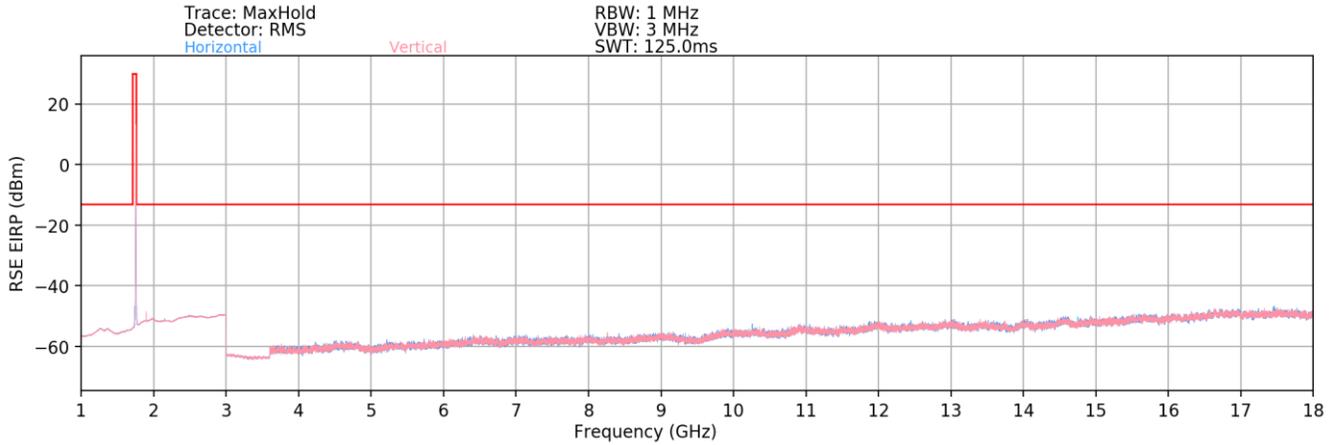
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
842.00	H	-	-	-97.09	30.69	40.60	-54.65	-13.00	-41.65

**Table 7-30. Radiated Spurious Data (WCDMA AWS – Main Ant -30MHz - 1GHz)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-283. Radiated Spurious Plot (WCDMA AWS – Main Ant – 1-18GHz)**

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	H	-	-	-77.59	2.89	32.30	-62.96	-13.00	-49.96
5137.20	H	302	47	-76.06	5.09	36.03	-59.23	-13.00	-46.23
6849.60	H	-	-	-79.28	8.15	35.87	-59.39	-13.00	-46.39
8562.00	H	-	-	-79.67	8.35	35.68	-59.57	-13.00	-46.57
10274.40	H	-	-	-79.82	11.16	38.34	-56.92	-13.00	-43.92

**7-31. Radiated Spurious Data (WCDMA AWS – Low Channel – Main Ant)**

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	H	-	-	-77.38	2.76	32.38	-62.88	-13.00	-49.88
5197.80	H	317	47	-75.26	5.32	37.06	-58.20	-13.00	-45.20
6930.40	H	-	-	-79.04	7.75	35.71	-59.55	-13.00	-46.55
8663.00	H	-	-	-79.75	8.84	36.09	-59.17	-13.00	-46.17
10395.60	H	-	-	-80.32	11.70	38.38	-56.88	-13.00	-43.88

**Table 7-32. Radiated Spurious Data (WCDMA AWS – Mid Channel – Main Ant)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 183 of 206



<b>Mode:</b>	WCDMA RMC
<b>Channel:</b>	1513
<b>Frequency (MHz):</b>	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	H	-	-	-77.32	2.58	32.26	-63.00	-13.00	-50.00
5257.80	H	301	55	-76.62	4.82	35.20	-60.06	-13.00	-47.06
7010.40	H	-	-	-78.68	7.11	35.43	-59.83	-13.00	-46.83
8763.00	H	-	-	-79.42	8.29	35.87	-59.39	-13.00	-46.39
10515.60	H	-	-	-80.53	11.94	38.41	-56.85	-13.00	-43.85

**Table 7-33. Radiated Spurious Data (WCDMA AWS – High Channel – Main Ant)**

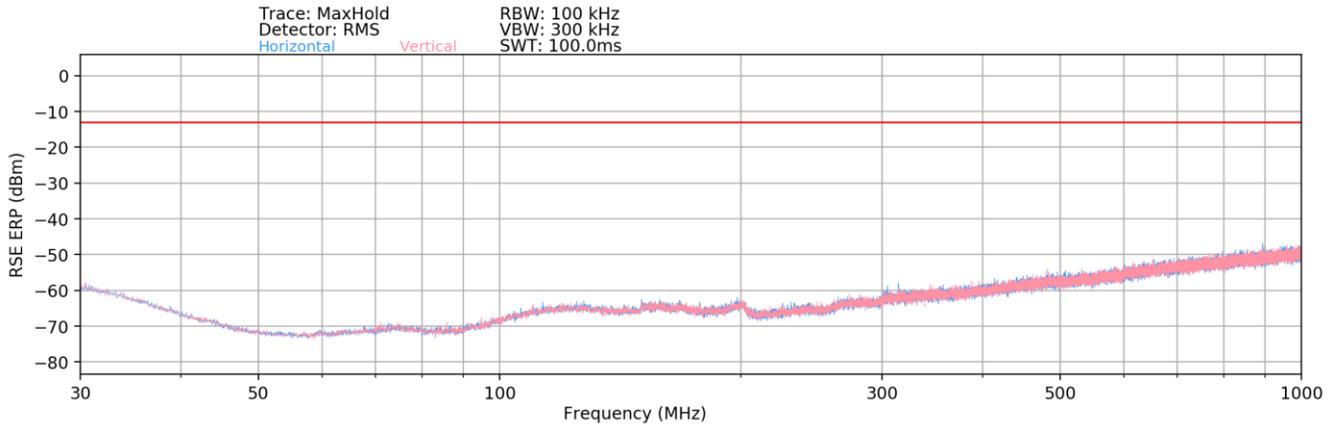
<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2201200003-07.PY7	<b>Test Dates:</b> 03/25/2022 - 05/21/2022	<b>EUT Type:</b> Portable Handset	Page 184 of 206

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### LTE Band 66/4 – Main Ant



**Plot 7-284. Radiated Spurious Plot (LTE Band 66/4 – Main Ant -30MHz-1GHz)**

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

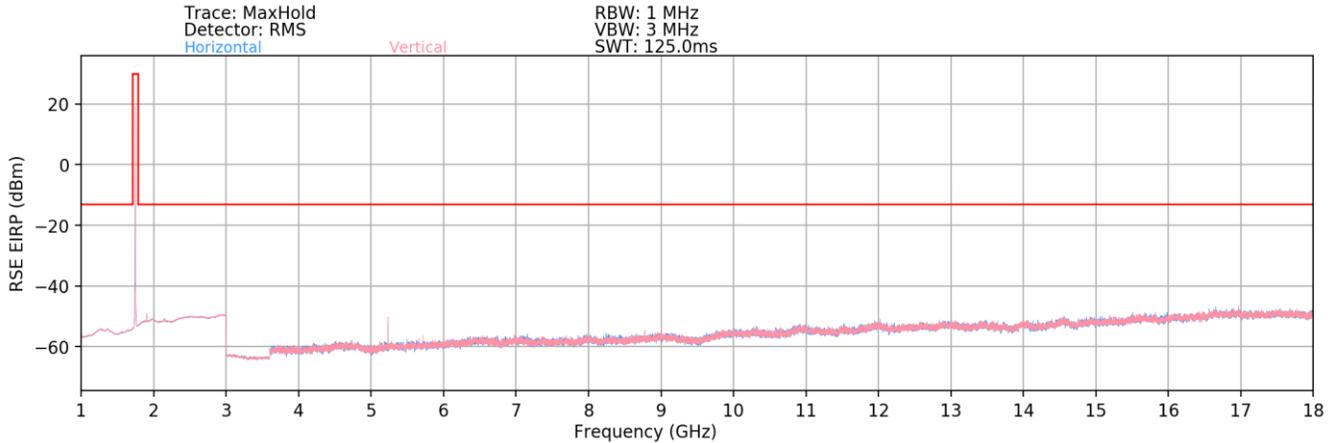
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
881.00	V	-	-	-97.47	30.78	40.31	-54.94	-13.00	-41.94

**Table 7-34. Radiated Spurious Data (LTE Band 66/4 – Main Ant -30MHz - 1GHz)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-285. Radiated Spurious Plot (LTE Band 66/4 – Main Ant - 1-18GHz)**

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	297	16	-75.86	2.88	34.02	-61.24	-13.00	-48.24
5160.00	V	291	5	-61.04	5.00	50.96	-44.30	-13.00	-31.30
6880.00	V	-	-	-79.16	7.96	35.80	-59.46	-13.00	-46.46
8600.00	V	189	39	-79.22	8.43	36.21	-59.04	-13.00	-46.04
10320.00	V	-	-	-80.01	11.16	38.15	-57.11	-13.00	-44.11
12040.00	V	-	-	-80.12	14.12	41.00	-54.26	-13.00	-41.26
13760.00	V	-	-	-80.78	15.19	41.41	-53.84	-13.00	-40.84

**Table 7-35. Radiated Spurious Data (LTE Band 66/4 – Low Channel – Main Ant)**

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	145	26	-75.72	2.69	33.97	-61.29	-13.00	-48.29
5235.00	V	322	2	-61.92	5.03	50.11	-45.15	-13.00	-32.15
6980.00	V	-	-	-78.22	7.16	35.94	-59.32	-13.00	-46.32
8725.00	V	189	41	-78.58	8.55	36.97	-58.28	-13.00	-45.28
10470.00	V	-	-	-80.34	11.64	38.30	-56.96	-13.00	-43.96
12215.00	V	-	-	-80.06	13.70	40.64	-54.62	-13.00	-41.62
13960.00	V	-	-	-80.21	14.14	40.93	-54.33	-13.00	-41.33

**Table 7-36. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – Main Ant)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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	123	355	-75.21	2.41	34.20	-61.05	-13.00	-48.05
5310.00	V	291	7	-64.83	4.94	47.11	-48.15	-13.00	-35.15
7080.00	V	-	-	-78.28	7.46	36.18	-59.08	-13.00	-46.08
8850.00	V	189	41	-77.82	8.64	37.82	-57.43	-13.00	-44.43
10620.00	V	284	345	-79.72	11.75	39.03	-56.23	-13.00	-43.23
12390.00	V	-	-	-80.51	13.71	40.20	-55.06	-13.00	-42.06
14160.00	V	-	-	-80.25	14.51	41.26	-54.00	-13.00	-41.00
15930.00	V	-	-	-80.62	16.71	43.09	-52.17	-13.00	-39.17

**Table 7-37. Radiated Spurious Data (LTE Band 66/4 – High Channel – Main Ant)**

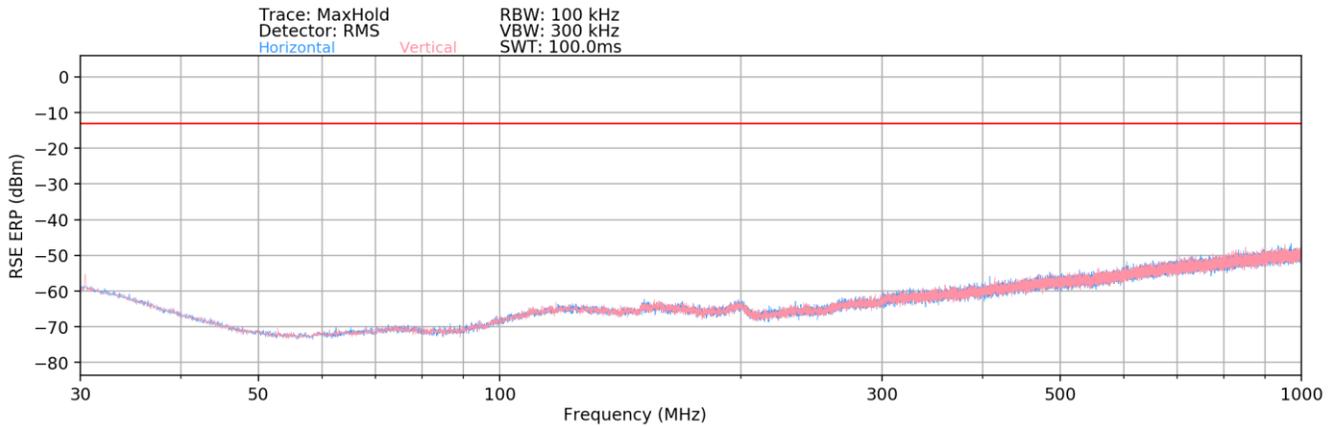
<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2201200003-07.PY7	<b>Test Dates:</b> 03/25/2022 - 05/21/2022	<b>EUT Type:</b> Portable Handset	Page 187 of 206

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## NR Band n66 – Main Ant



**Plot 7-286. Radiated Spurious Plot (NR Band n66 – Main Ant – 30MHz-1GHz)**

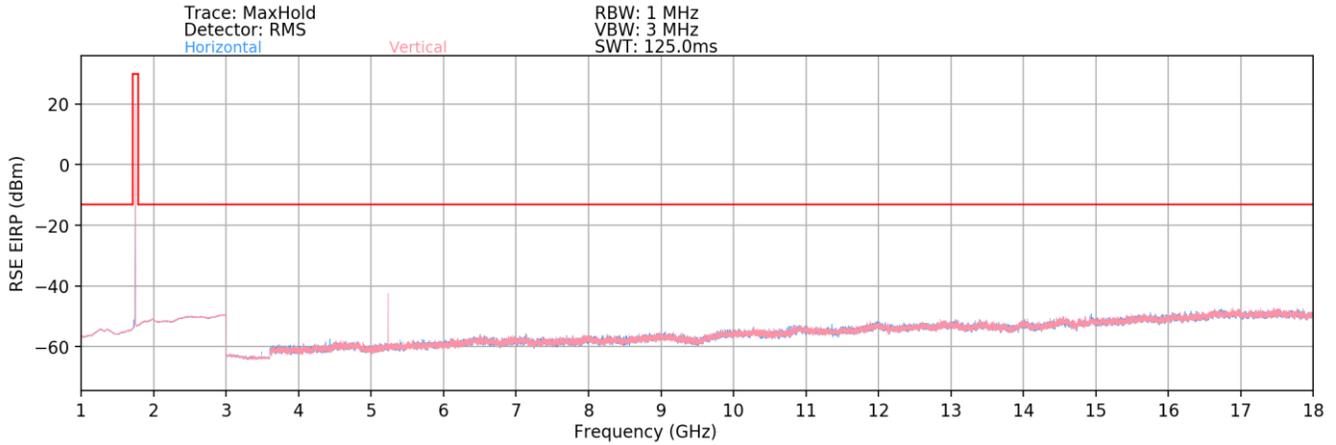
Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 53
Mode:	Stand Alone
Anchor Band:	-

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]
837.50	V	-	-	-96.25	30.82	41.57	-53.68	-13.00	-40.68

**Table 7-38. Radiated Spurious Data (NR Band n66 – Main Ant -30MHz - 1GHz)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 188 of 206

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**Plot 7-287. Radiated Spurious Plot (NR Band n66 – Main Ant – 1-18GHz)**

Bandwidth (MHz):	20
Frequency (MHz):	1720
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]
3440.00	V	336	31	-76.02	2.88	33.86	-61.40	-13.00	-48.40
5160.00	V	287	3	-60.28	5.00	51.72	-43.54	-13.00	-30.54
6880.00	V	-	-	-79.19	7.96	35.77	-59.49	-13.00	-46.49
8600.00	V	-	-	-79.57	8.43	35.86	-59.39	-13.00	-46.39
10320.00	V	-	-	-80.02	11.16	38.14	-57.12	-13.00	-44.12

**Table 7-39. Radiated Spurious Data (NR Band n66 – Low Channel – Main Ant)**

Bandwidth (MHz):	20
Frequency (MHz):	1745
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]
3490.00	V	145	26	-75.78	2.69	33.91	-61.35	-13.00	-48.35
5235.00	V	332	2	-61.42	5.03	50.61	-44.65	-13.00	-31.65
6980.00	V	-	-	-78.13	7.16	36.03	-59.23	-13.00	-46.23
8725.00	V	175	39	-78.80	8.55	36.75	-58.50	-13.00	-45.50
10470.00	V	-	-	-80.37	11.64	38.27	-56.99	-13.00	-43.99
12215.00	V	-	-	-80.21	13.70	40.49	-54.77	-13.00	-41.77
13960.00	V	-	-	-80.38	14.14	40.76	-54.50	-13.00	-41.50

**Table 7-40. Radiated Spurious Data (NR Band n66 – Mid Channel – Main Ant)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 189 of 206



Bandwidth (MHz):	20
Frequency (MHz):	1770
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]
3540.00	V	366	7	-75.37	2.41	34.04	-61.21	-13.00	-48.21
5310.00	V	291	8	-62.19	4.94	49.75	-45.51	-13.00	-32.51
7080.00	V	-	-	-78.64	7.46	35.82	-59.44	-13.00	-46.44
8850.00	V	181	43	-78.23	8.64	37.41	-57.84	-13.00	-44.84
10620.00	V	-	-	-80.61	11.75	38.14	-57.12	-13.00	-44.12
12390.00	V	-	-	-80.48	13.71	40.23	-55.03	-13.00	-42.03
14160.00	V	-	-	-80.31	14.51	41.20	-54.06	-13.00	-41.06

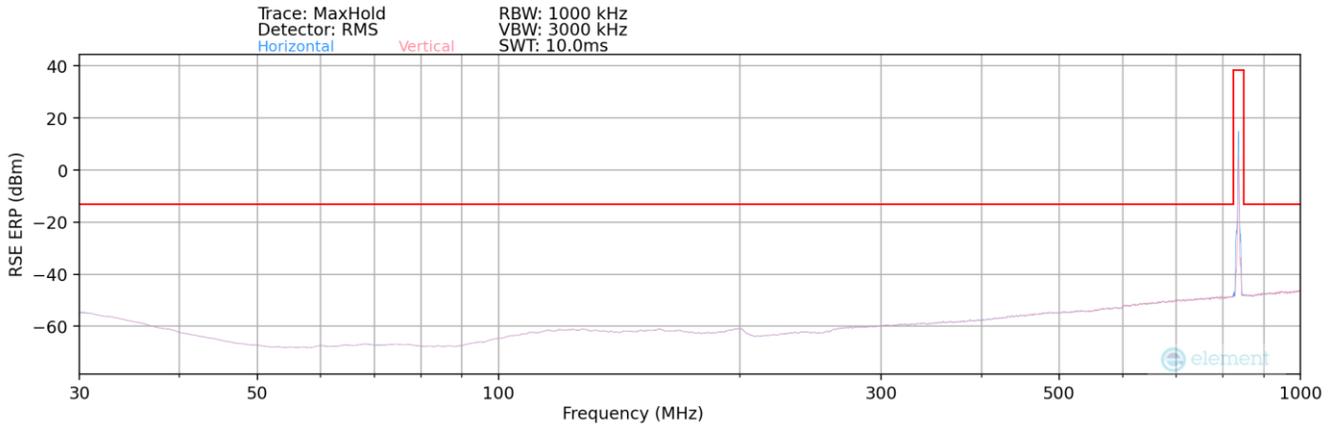
**Table 7-41. Radiated Spurious Data (NR Band n66 – High Channel – Main Ant)**

<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2201200003-07.PY7	<b>Test Dates:</b> 03/25/2022 - 05/21/2022	<b>EUT Type:</b> Portable Handset	Page 190 of 206

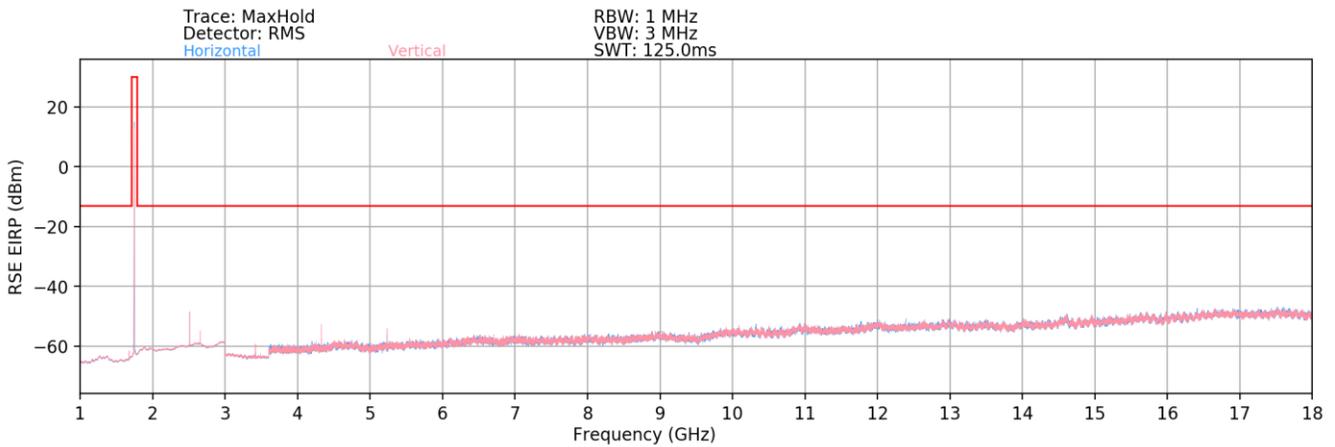
V3.0 1/5/2022

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## EN-DC: NR Band n66 – LTE Band 5



**Plot 7-288. Radiated Spurious Plot (EN-DC: NR Band n66 -LTE Band 5 – Below 1GHz)**



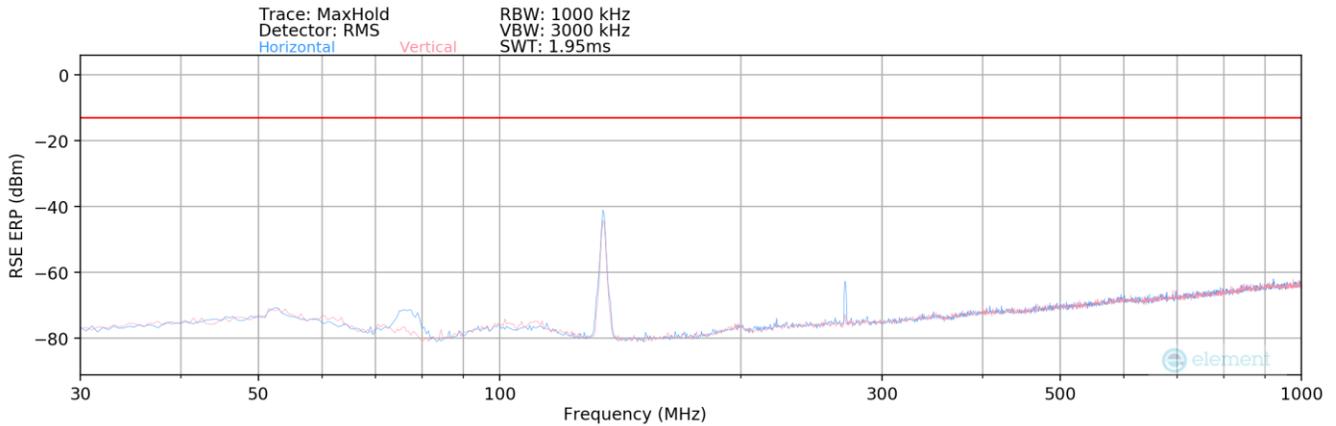
**Plot 7-289. Radiated Spurious Plot (EN-DC: NR Band n66 -LTE Band 5 – Above 1GHz)**

<b>Bandwidth (MHz):</b>	20 & 10
<b>Frequency (MHz):</b>	1745 & 836.5
<b>RB / Offset:</b>	1/53 & 1/25
<b>Mode:</b>	EN-DC
<b>Anchor Band:</b>	5

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]
980.5	V	-	-	-88.96	31.94	49.98	-45.27	-13.00	-32.27
2509.5	V	195	364	-66.59	0.80	41.21	-54.05	-13.00	-41.05
2653.5	V	322	369	-77.54	1.77	31.23	-64.03	-13.00	-51.03
3418.0	V	353	125	-76.01	2.84	33.83	-61.43	-13.00	-48.43
4326.5	V	397	366	-77.44	3.40	32.96	-62.29	-13.00	-49.29
5235.0	V	133	55	-68.77	5.03	43.26	-52.00	-13.00	-39.00
14796.5	V	-	-	-82.15	15.76	40.61	-54.65	-13.00	-41.65

<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2201200003-07.PY7	<b>Test Dates:</b> 03/25/2022 - 05/21/2022	<b>EUT Type:</b> Portable Handset	Page 191 of 206

**Table 7-42. Radiated Spurious Data (EN-DC: NR Band n66 -LTE Band 5)  
EN-DC: NR Band n66 – LTE Band 2 (Sub Antenna)**



**Plot 7-290. Radiated Spurious Plot (EN-DC: NR Band n66 – LTE Band 2 (Sub Antenna) – Below 1GHz)**

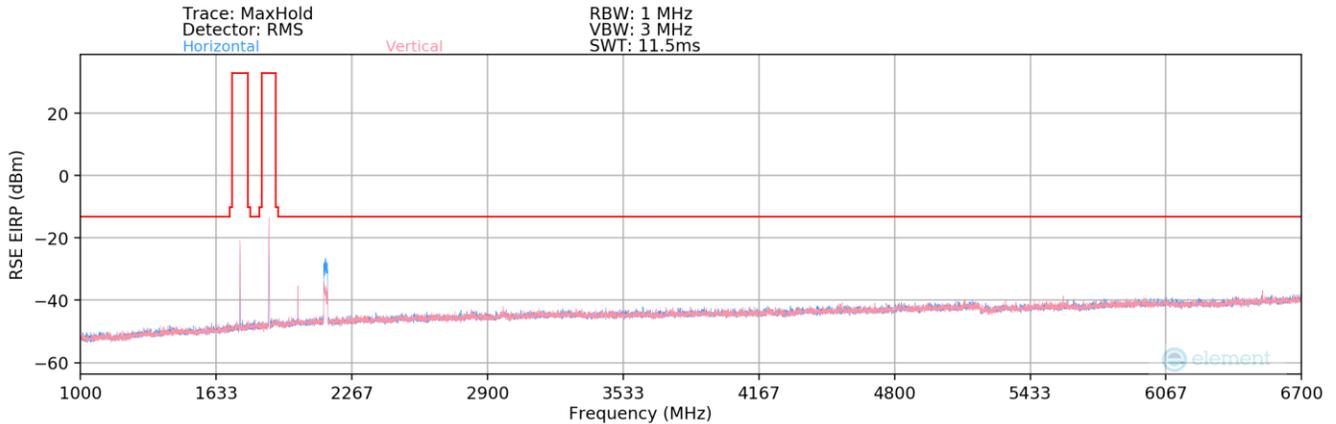
<b>Case:</b>	NR (n66) - B2 (sub)
<b>Bandwidth (MHz):</b>	20 & 20
<b>Frequency (MHz):</b>	1745 & 1880
<b>RB / Offset:</b>	1/53 & 1/50
<b>Mode:</b>	EN-DC
<b>Anchor Band:</b>	2

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]
86.0	H	162	4	-69.34	-19.99	17.67	-77.58	-13.00	-64.58
135.0	H	262	0	-35.53	-19.86	51.61	-43.64	-13.00	-30.64
270.0	H	262	5	-66.70	-14.75	25.55	-69.71	-13.00	-56.71
405.0	H	-	-	-79.37	-11.34	16.29	-78.97	-13.00	-65.97
540.0	H	-	-	-79.78	-9.15	18.07	-77.19	-13.00	-64.19
675.0	H	-	-	-80.18	-6.78	20.04	-75.22	-13.00	-62.22

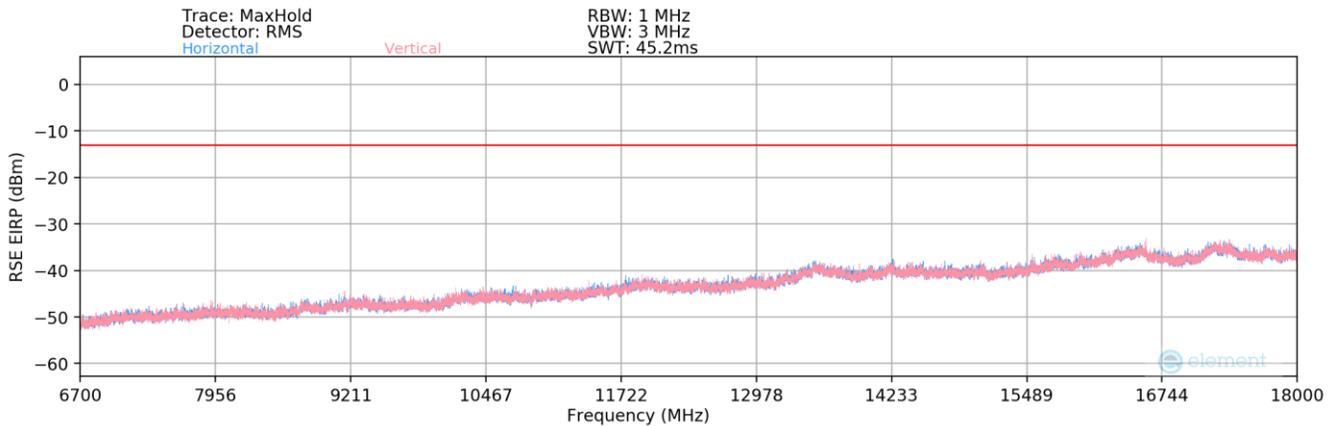
**Table 7-43. Radiated Spurious Data (EN-DC: NR Band n66 – LTE Band 2 (Sub Antenna) -Below 1GHz)**

<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2201200003-07.PY7	<b>Test Dates:</b> 03/25/2022 - 05/21/2022	<b>EUT Type:</b> Portable Handset	Page 192 of 206

## EN-DC: NR Band n66 – LTE Band 2 (Sub Antenna)



Plot 7-291. Radiated Spurious Plot (EN-DC: NR Band n66 – LTE Band 2 (Sub Antenna) – 1-6.7GHz)



Plot 7-292. Radiated Spurious Plot (EN-DC: NR Band n66 – LTE Band 2 (Sub Antenna) – 6.7-18GHz)

Case:	NR (n66) - B2 (sub)
Bandwidth (MHz):	20 & 20
Frequency (MHz):	1745 & 1880
RB / Offset:	1/53 & 1/50
Mode:	EN-DC
Anchor Band:	2

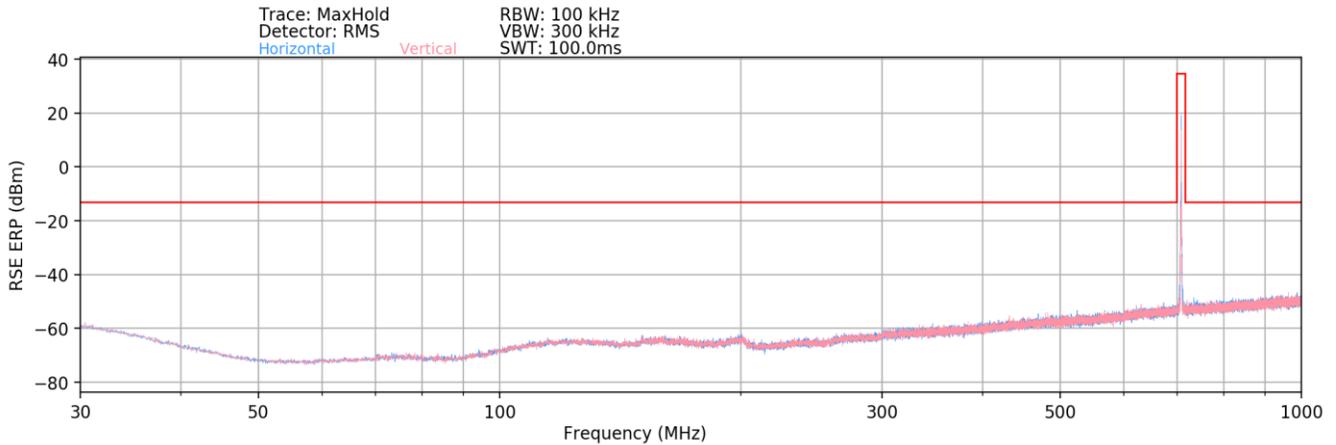
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
2015.0	H	143	34	-67.72	12.84	52.12	-43.14	-13.00	-30.14
2137.0	V	214	206	-64.65	13.18	55.53	-39.73	-13.00	-26.73
6575.0	V	-	-	-81.99	23.04	48.05	-47.21	-13.00	-34.21
7115.0	H	-	-	-82.23	15.16	39.93	-55.33	-13.00	-42.33
9130.0	H	-	-	-83.49	18.44	41.95	-53.31	-13.00	-40.31

Table 7-44. Radiated Spurious Data (EN-DC: NR Band n66 – LTE Band 2 (Sub Antenna) -Above 1GHz)

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 193 of 206



**LTE Band 12/17 – Sub Ant**



**Plot 7-293. Radiated Spurious Plot (LTE Band 12/17 – Sub Ant – 30MHz-1GHz)**

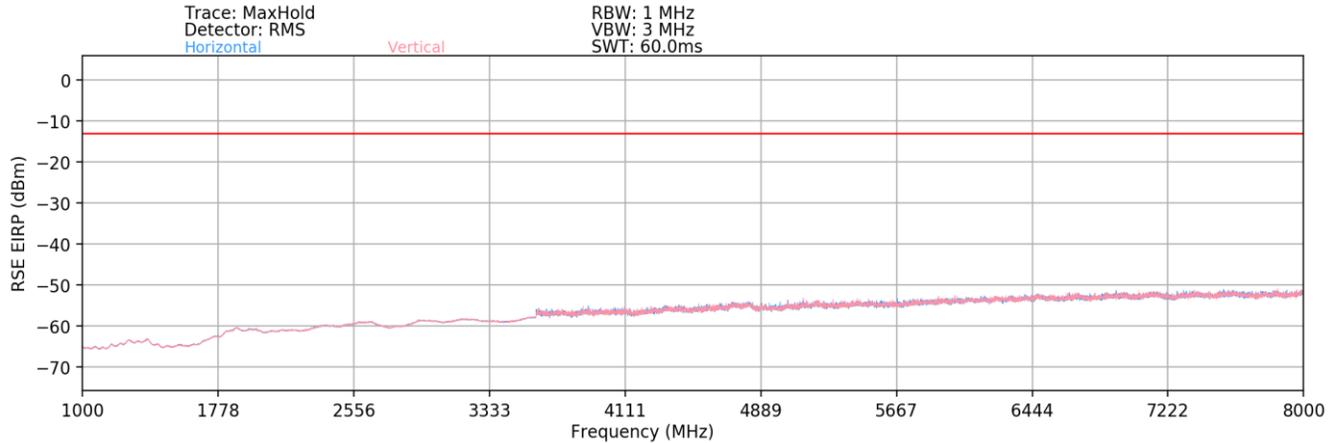
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

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]
953.20	V	-	-	-88.91	31.63	49.72	-45.54	-13.00	-32.54

**Table 7-45. Radiated Spurious Data (LTE Band 12/17 – Sub Ant -30MHz - 1GHz)**

<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2201200003-07.PY7	<b>Test Dates:</b> 03/25/2022 - 05/21/2022	<b>EUT Type:</b> Portable Handset	Page 194 of 206

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**Plot 7-294. Radiated Spurious Plot (LTE Band 12/17 – Sub Ant – 1-8GHz)**

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	-	-	-77.01	-3.69	26.30	-68.96	-13.00	-55.96
2112.00	V	-	-	-77.32	-0.26	29.42	-65.84	-13.00	-52.84
2816.00	V	-	-	-77.16	0.80	30.64	-64.62	-13.00	-51.62

**Table 7-46. 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	174	324	-76.46	-3.79	26.75	-68.51	-13.00	-55.51
2122.50	V	-	-	-77.23	-0.25	29.52	-65.73	-13.00	-52.73
2830.00	V	-	-	-77.38	0.83	30.45	-64.81	-13.00	-51.81
3537.50	V	-	-	-77.17	2.43	32.26	-62.99	-13.00	-49.99

**Table 7-47. Radiated Spurious Data (LTE Band 12/17 – Mid Channel – Sub Ant)**

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

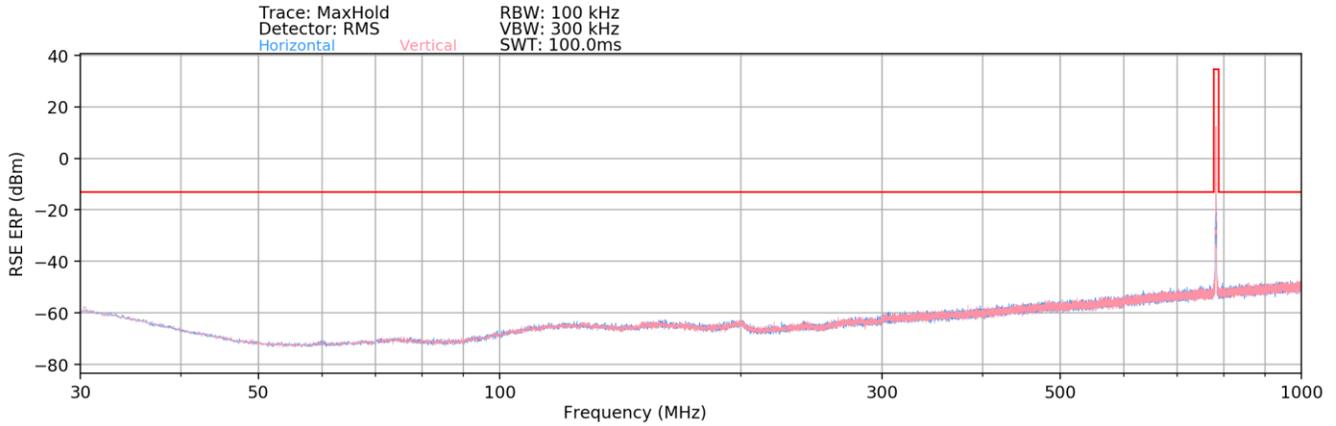
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	V	128	324	-75.52	-3.83	27.65	-67.61	-13.00	-54.61
2133.00	V	-	-	-76.97	-0.22	29.81	-65.45	-13.00	-52.45
2844.00	V	-	-	-77.31	0.93	30.62	-64.64	-13.00	-51.64
3555.00	V	-	-	-77.48	2.76	32.28	-62.98	-13.00	-49.98

**Table 7-48. Radiated Spurious Data (LTE Band 12/17 – High Channel – Sub Ant)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 195 of 206



### LTE Band 13 – Sub Ant



**Plot 7-295. Radiated Spurious Plot (LTE Band 13 – Sub Ant - 30MHz-1GHz)**

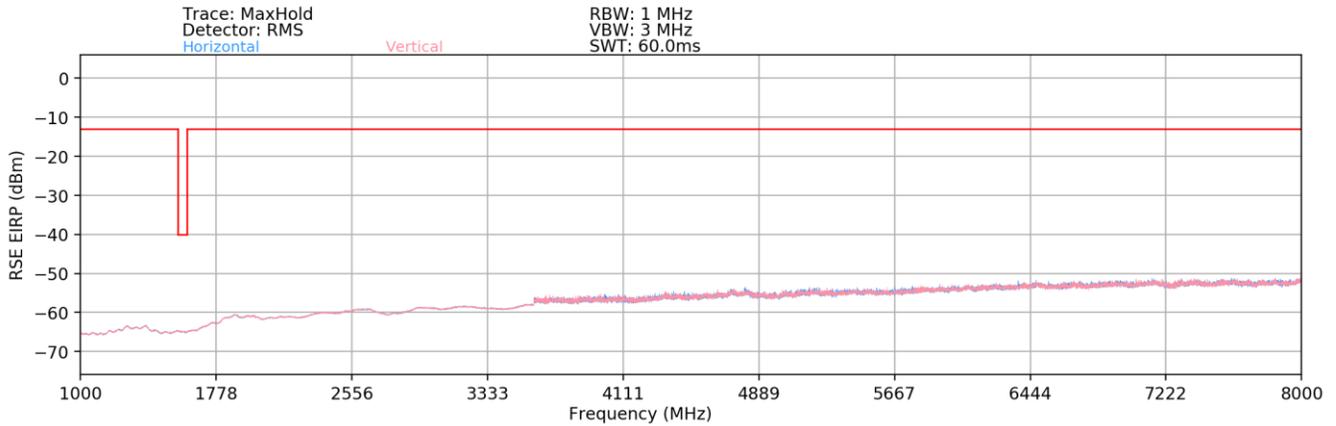
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

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]
675.45	H	-	-	-88.27	28.49	47.22	-48.03	-13.00	-35.03

**Table 7-49. Radiated Spurious Data (LTE Band 13 – Sub Ant – Below 1GHz)**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 196 of 206

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**Plot 7-296. Radiated Spurious Plot (LTE Band 13 – Sub Ant -1-8GHz)**

<b>Bandwidth (MHz):</b>	10
<b>Frequency (MHz):</b>	782
<b>RB / Offset:</b>	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	H	-	-	-76.67	-3.87	26.46	-68.80	-40.00	-28.80
2346.00	H	-	-	-77.21	0.64	30.43	-64.83	-13.00	-51.83
3128.00	H	-	-	-77.38	1.93	31.55	-63.71	-13.00	-50.71

**Table 7-50. Radiated Spurious Data (LTE Band 13 – Mid Channel – Sub Ant)**

<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2201200003-07.PY7	<b>Test Dates:</b> 03/25/2022 - 05/21/2022	<b>EUT Type:</b> Portable Handset	Page 197 of 206



## 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

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 198 of 206

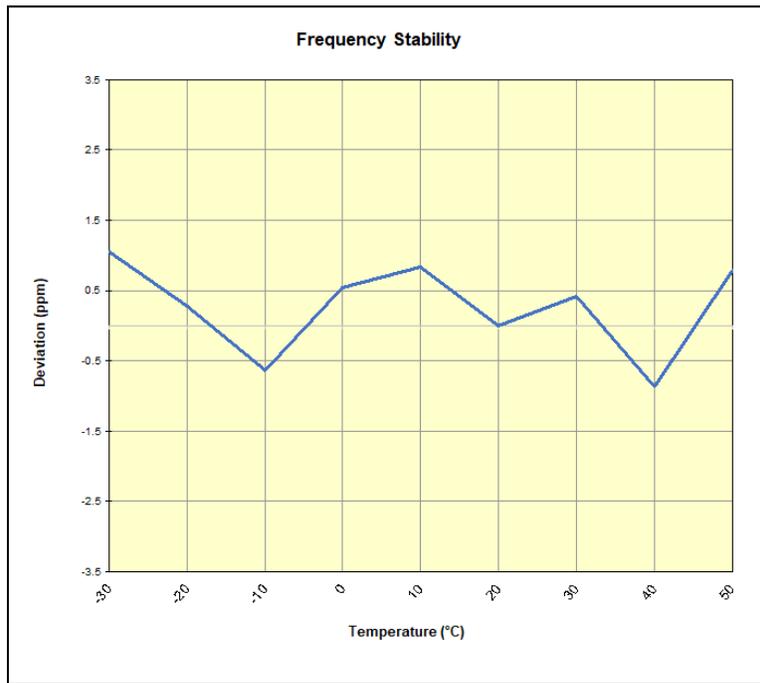
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## Frequency Stability / Temperature Variation

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	680,594,946	714	0.0001049
		- 20	680,594,425	192	0.0000283
		- 10	680,593,798	-434	-0.0000638
		0	680,594,599	367	0.0000539
		+ 10	680,594,797	564	0.0000829
		+ 20 (Ref)	680,594,232	0	0.0000000
		+ 30	680,594,521	289	0.0000424
		+ 40	680,593,639	-593	-0.0000872
Battery Endpoint	3.69	+ 20	680,595,259	1,027	0.0001508

Table 7-51. LTE Band 71 Frequency Stability Data



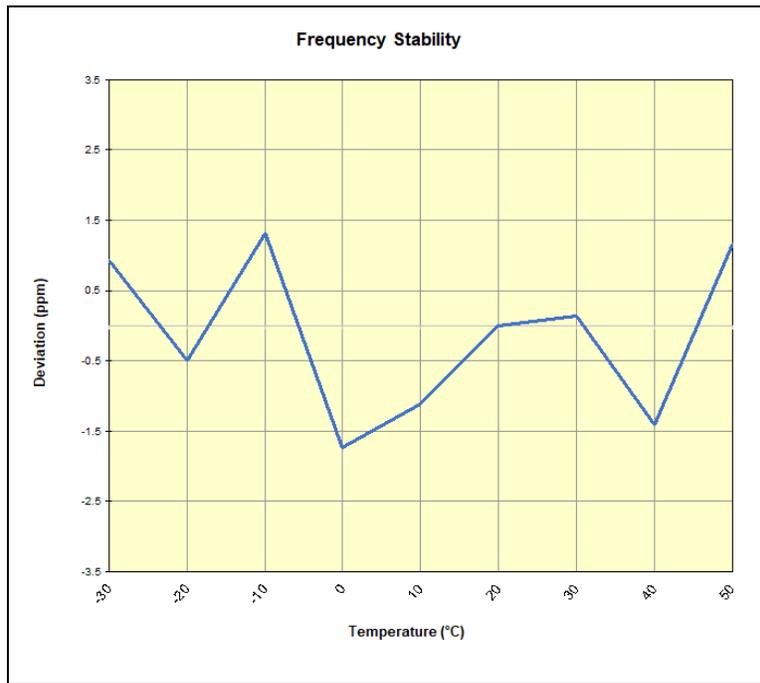
Plot 7-297. LTE Band 71 Frequency Stability Chart

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 199 of 206

## 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	707,595,363	657	0.0000928
		- 20	707,594,357	-350	-0.0000494
		- 10	707,595,632	926	0.0001309
		0	707,593,474	-1,232	-0.0001741
		+ 10	707,593,915	-791	-0.0001118
		+ 20 (Ref)	707,594,706	0	0.0000000
		+ 30	707,594,807	101	0.0000142
		+ 40	707,593,707	-999	-0.0001412
		+ 50	707,595,532	825	0.0001166
Battery Endpoint	3.69	+ 20	707,594,869	163	0.0000230

Table 7-52. LTE Band 12/17 Frequency Stability Data



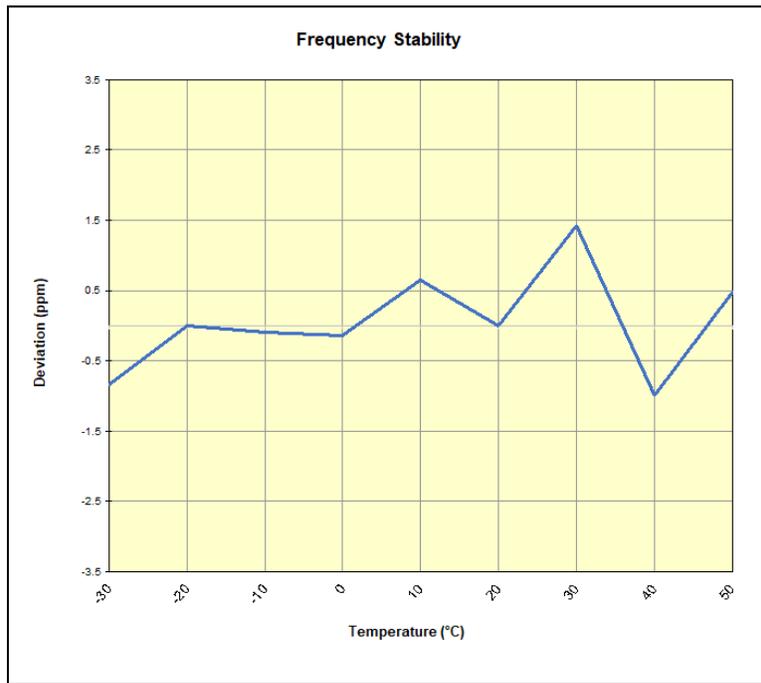
Plot 7-298. LTE Band 12/17 Frequency Stability Chart

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 200 of 206

## 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	782,093,855	-657	-0.0000840
		- 20	782,094,514	2	0.0000002
		- 10	782,094,436	-76	-0.0000097
		0	782,094,400	-113	-0.0000144
		+ 10	782,095,026	514	0.0000657
		+ 20 (Ref)	782,094,512	0	0.0000000
		+ 30	782,095,632	1,120	0.0001432
		+ 40	782,093,734	-778	-0.0000995
		+ 50	782,094,885	373	0.0000477
Battery Endpoint	3.69	+ 20	782,093,851	-661	-0.0000845

Table 7-53. LTE Band 13 Frequency Stability Data



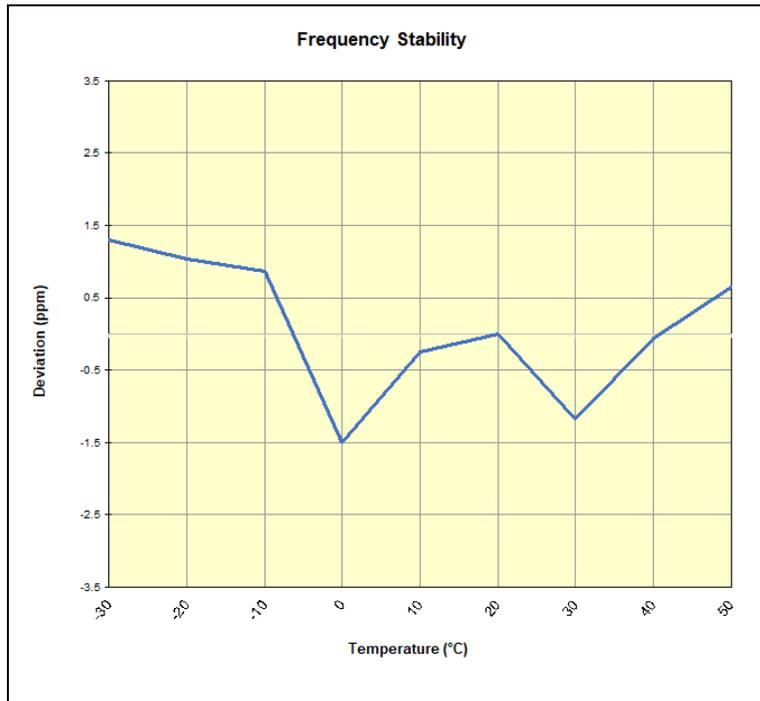
Plot 7-299. LTE Band 13 Frequency Stability Chart

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2201200003-07.PY7	Test Dates: 03/25/2022 - 05/21/2022	EUT Type: Portable Handset	Page 201 of 206

## 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	680,587,183	881	0.0001294
		- 20	680,587,004	702	0.0001032
		- 10	680,586,891	590	0.0000866
		0	680,585,275	-1,027	-0.0001509
		+ 10	680,586,137	-164	-0.0000242
		+ 20 (Ref)	680,586,302	0	0.0000000
		+ 30	680,585,504	-798	-0.0001172
		+ 40	680,586,262	-40	-0.0000059
Battery Endpoint	3.69	+ 20	680,586,120	-182	-0.0000267

**Table 7-54. NR Band n71 Frequency Stability Data**



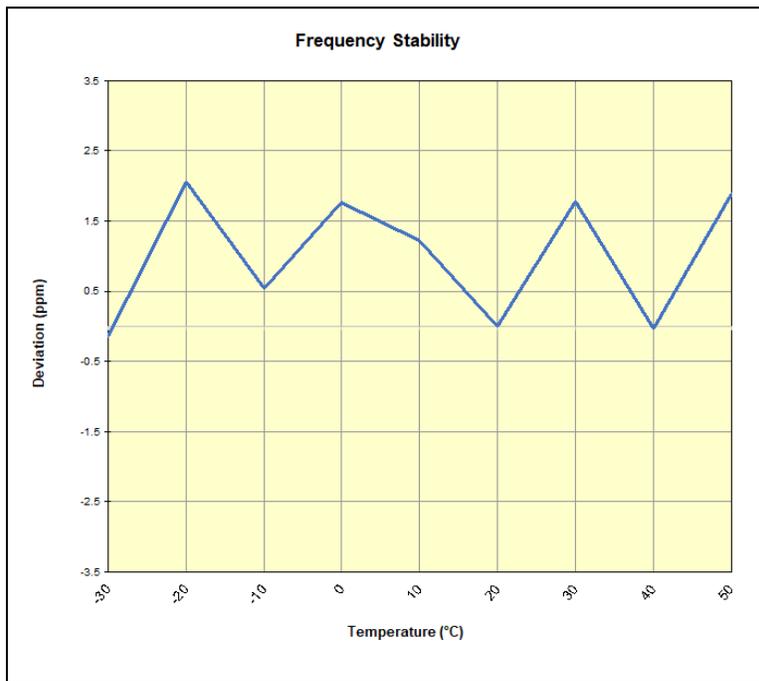
**Plot 7-300. NR Band n71 Frequency Stability Chart**

FCC ID: PY7-57325M	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	1,732,630,130	-252	-0.0000146
		- 20	1,732,633,954	3,572	0.0002062
		- 10	1,732,631,325	943	0.0000544
		0	1,732,633,431	3,049	0.0001760
		+ 10	1,732,632,504	2,122	0.0001225
		+ 20 (Ref)	1,732,630,382	0	0.0000000
		+ 30	1,732,633,454	3,072	0.0001773
		+ 40	1,732,630,323	-59	-0.0000034
Battery Endpoint	3.69	+ 20	1,732,633,728	3,346	0.0001931

**Table 7-55. WCDMA AWS Frequency Stability Data**



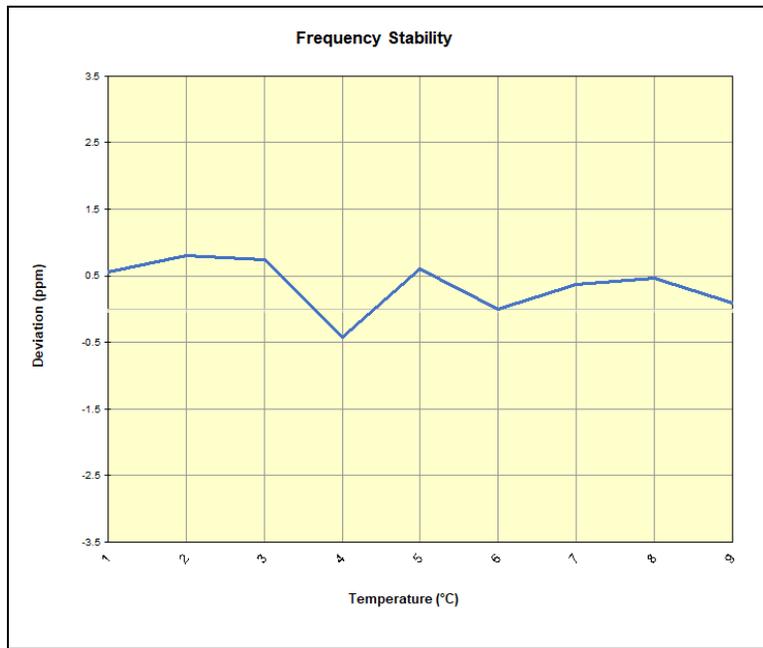
**Plot 7-301. WCDMA AWS Frequency Stability Chart**

FCC ID: PY7-57325M	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	1,745,095,572	966	0.0000553
		- 20	1,745,095,997	1,391	0.0000797
		- 10	1,745,095,891	1,285	0.0000736
		0	1,745,093,871	-735	-0.0000421
		+ 10	1,745,095,648	1,042	0.0000597
		+ 20 (Ref)	1,745,094,606	0	0.0000000
		+ 30	1,745,095,251	645	0.0000369
		+ 40	1,745,095,426	820	0.0000470
		+ 50	1,745,094,771	165	0.0000095
Battery Endpoint	3.69	+ 20	1,745,095,394	788	0.0000452

**Table 7-56. LTE Band 66/4 Frequency Stability Data**



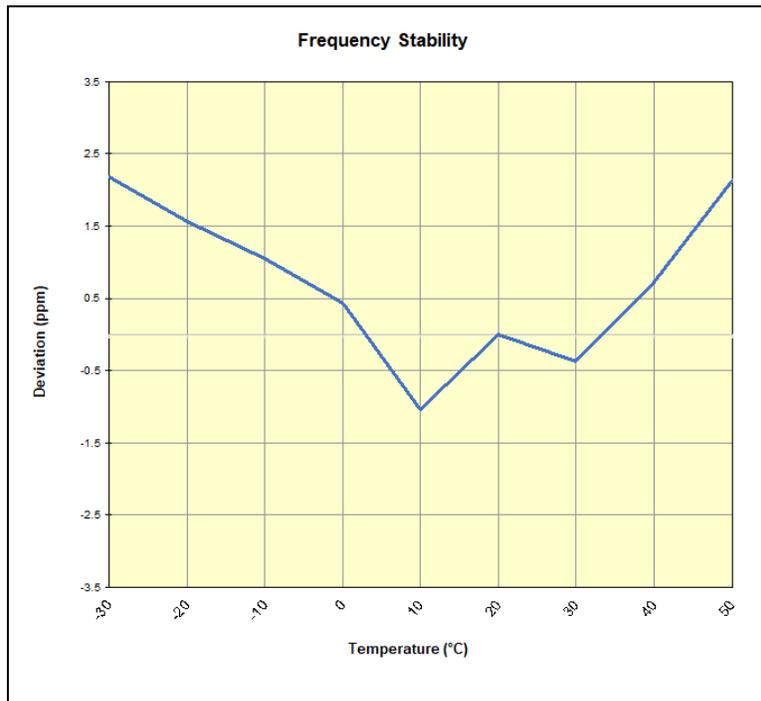
**Plot 7-302. LTE Band 66/4 Frequency Stability Chart**

FCC ID: PY7-57325M	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	1,745,087,737	3,806	0.0002181
		- 20	1,745,086,669	2,738	0.0001569
		- 10	1,745,085,775	1,844	0.0001057
		0	1,745,084,682	751	0.0000431
		+ 10	1,745,082,111	-1,820	-0.0001043
		+ 20 (Ref)	1,745,083,931	0	0.0000000
		+ 30	1,745,083,290	-641	-0.0000367
		+ 40	1,745,085,192	1,261	0.0000723
		+ 50	1,745,087,663	3,732	0.0002138
Battery Endpoint	3.69	+ 20	1,745,081,978	-1,953	-0.0001119

**Table 7-57. NR Band n66 Frequency Stability Data**



**Plot 7-303. NR Band n66 Frequency Stability Chart**

FCC ID: PY7-57325M	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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: PY7-57325M** complies with all the requirements of Part 27 of the FCC rules.

<b>FCC ID:</b> PY7-57325M	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2201200003-07.PY7	<b>Test Dates:</b> 03/25/2022 - 05/21/2022	<b>EUT Type:</b> Portable Handset	Page 206 of 206