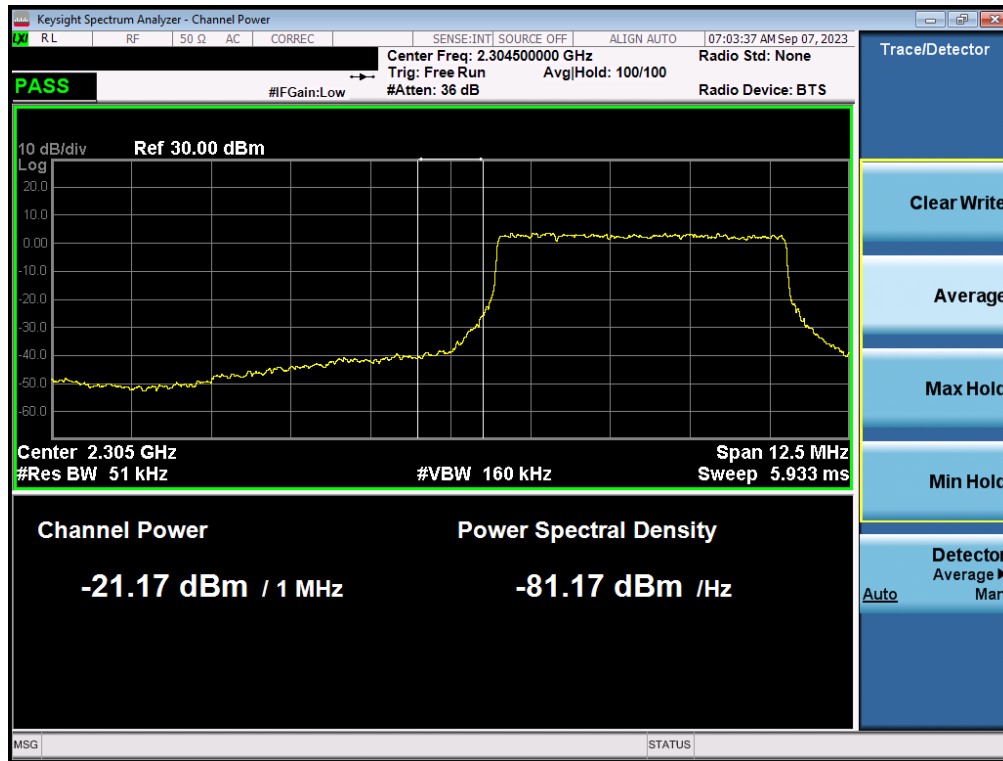


NR Band n30 – Ant1

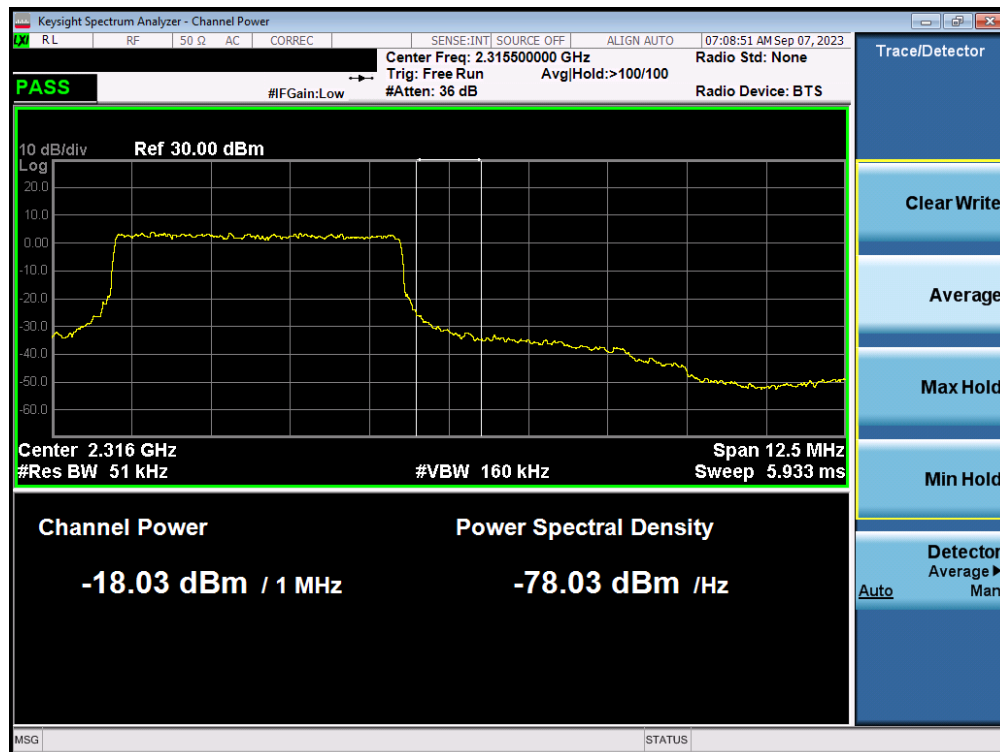


Plot 7-271. Lower Band Edge Plot (NR Band n30 – 5MHz – DFT-s-QPSK – Full RB - Ant1)



Plot 7-272. Extended Lower Band Edge Plot (NR Band n30 - 5MHz – DFT-s-QPSK – Full RB - Ant1)

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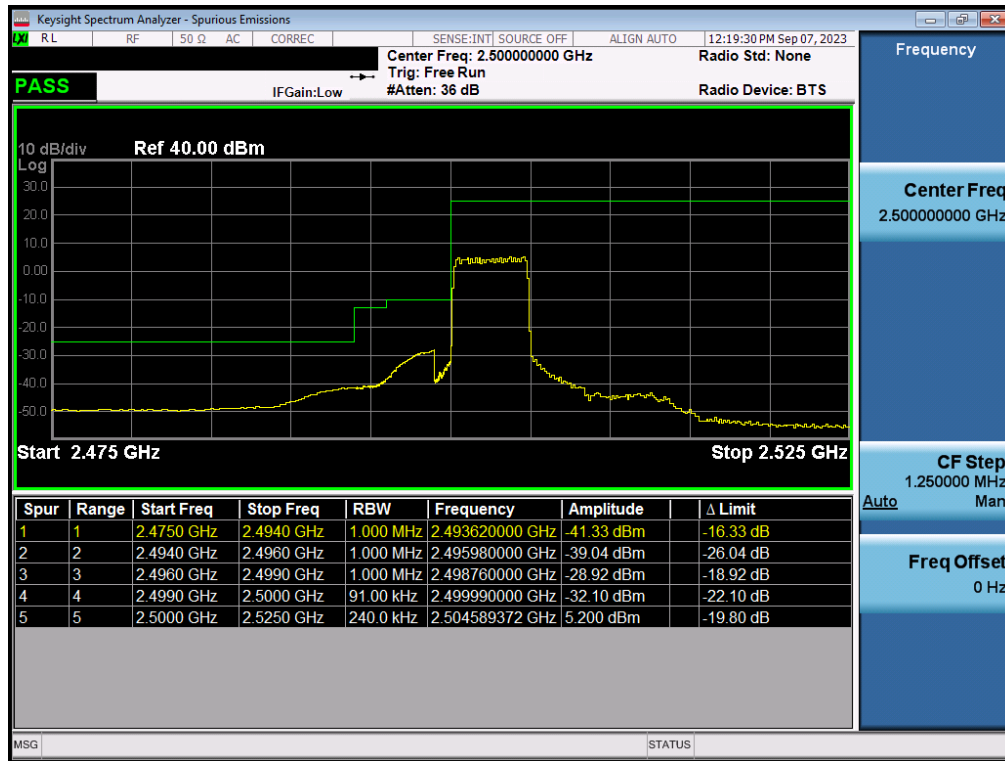
Plot 7-273. Upper Band Edge Plot (NR Band n30 - 5MHz DFT-s-BPSK – Full RB - Ant1)



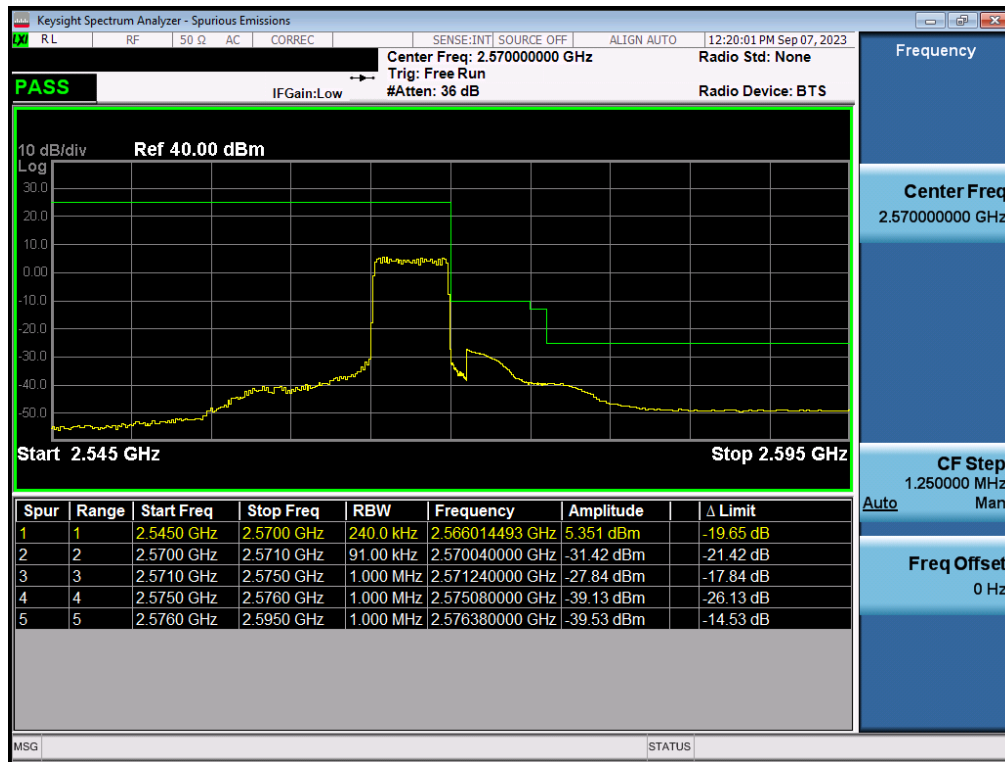
Plot 7-274. Extended Upper Band Edge Plot (NR Band n30 - 5MHz DFT-s-BPSK – Full RB - Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7 – Ant1



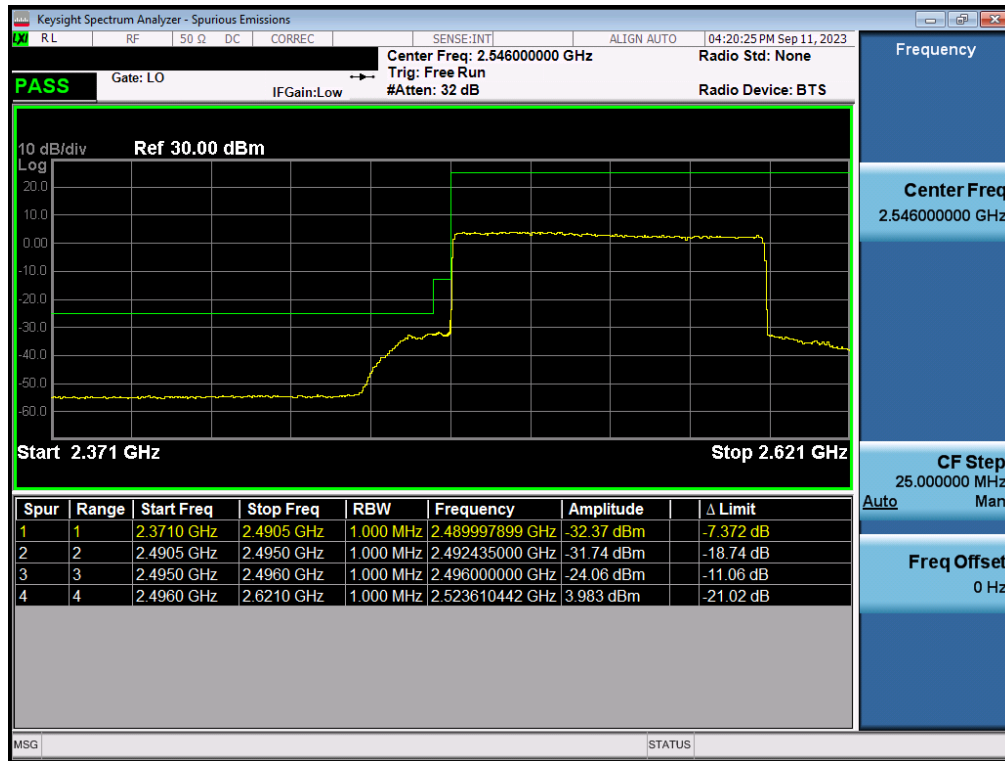
Plot 7-275. Lower Band Edge Plot (NR Band n7 - 5MHz DFT-s-QPSK – Full RB - Ant1)



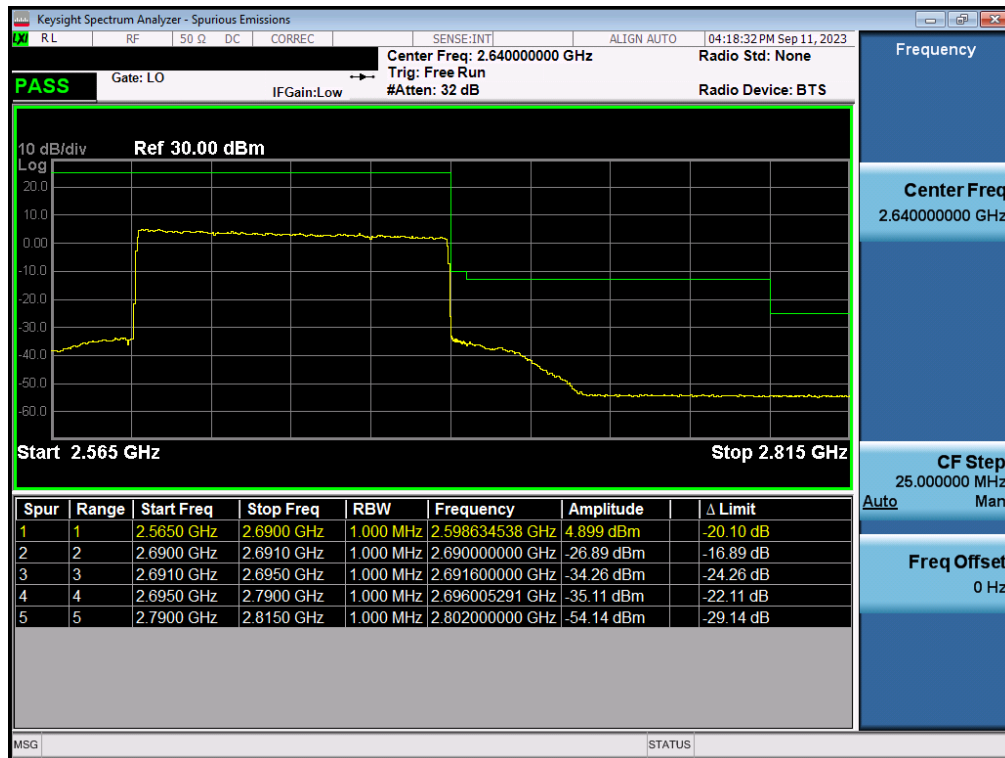
Plot 7-276. Upper Band Edge Plot (NR Band n7 - 5MHz DFT-s-QPSK – Full RB - Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – ANT 1



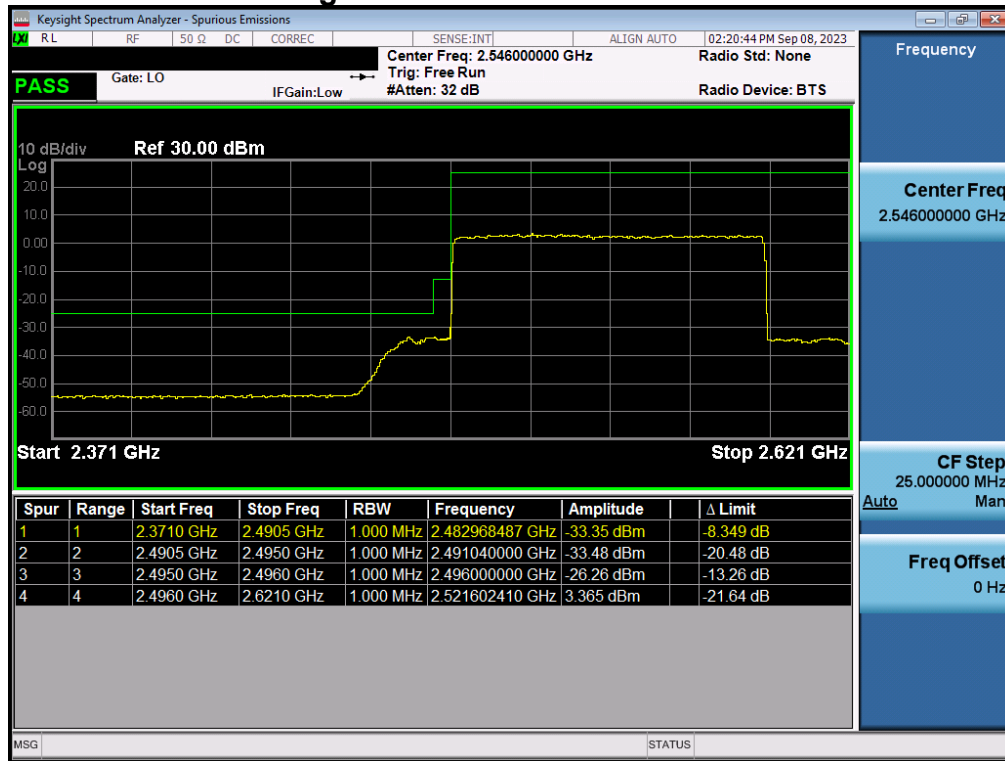
Plot 7-277. Lower ACP Plot (NR Band n41 - 100MHz DFT-s-QPSK – Full RB Configuration)



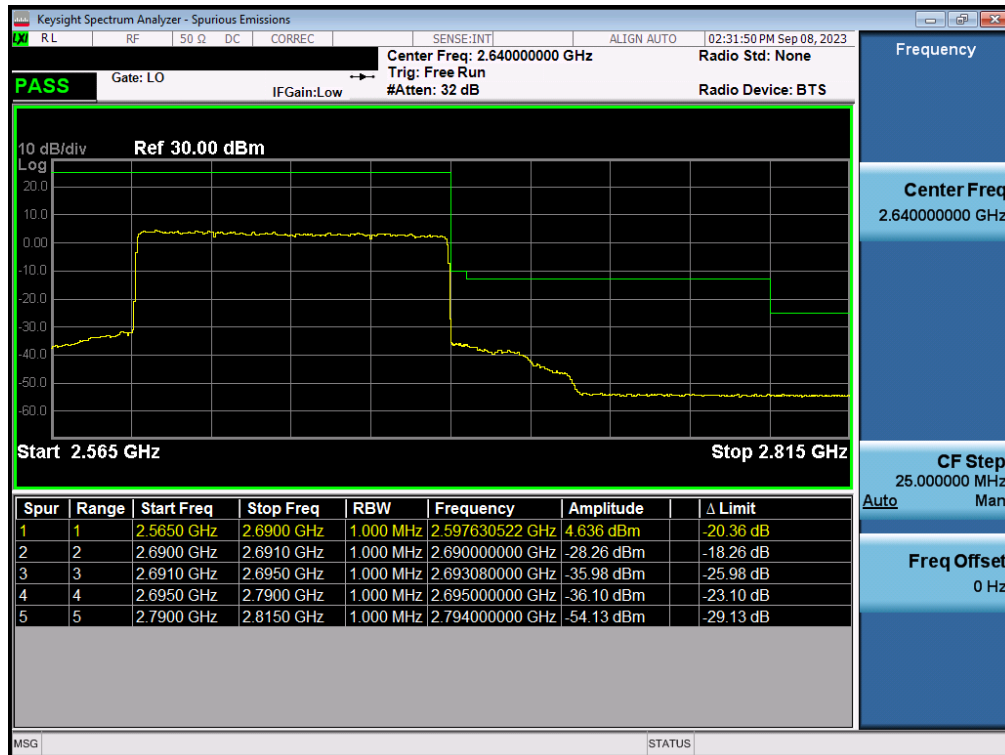
Plot 7-278. Upper ACP Plot (NR Band n41 - 100MHz DFT-s-QPSK – Full RB Configuration)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – ANT 1 -Switching



Plot 7-279. Lower ACP Plot (NR Band n41 - 100MHz DFT-s-QPSK – Full RB Configuration)



Plot 7-280. Upper ACP Plot (NR Band n41 - 100MHz DFT-s-QPSK – Full RB Configuration)

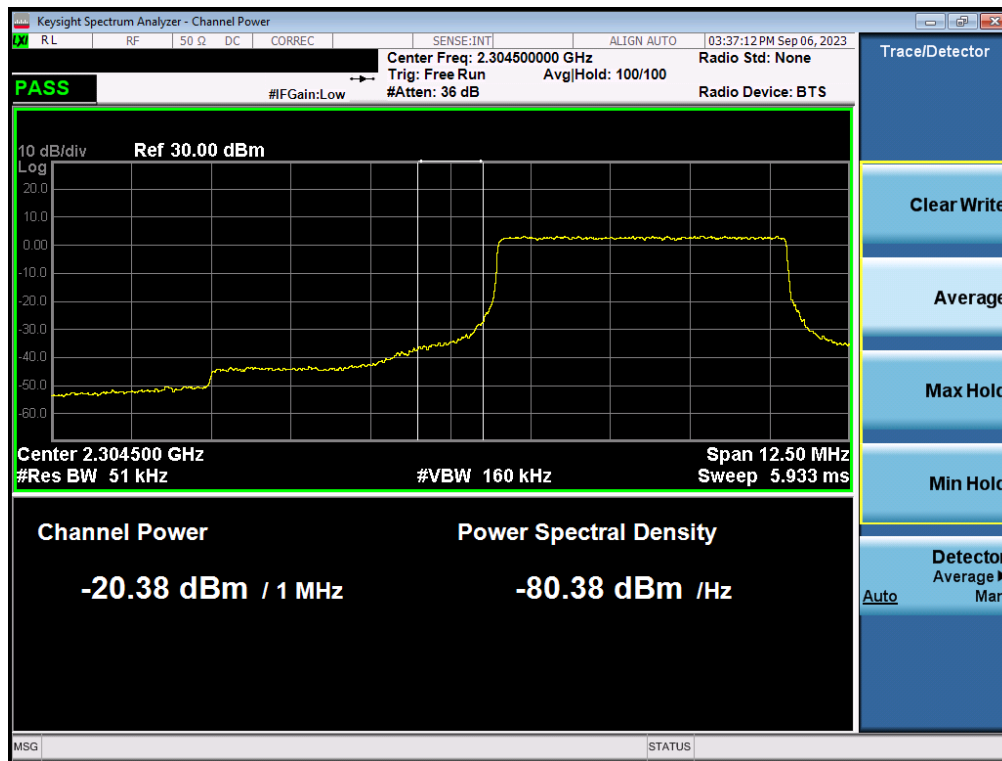
FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE B30	10 MHz	Low	Band Edge	-22.01	-13	-9.01
		Low	Extended	-45.26	-37	-8.26
		High	Band Edge	-20.44	-13	-7.44
		High	Extended	-34.38	-31	-3.37
	5 MHz	Low	Band Edge	-20.38	-13	-7.38
		Low	Extended	-14.18	-13	-1.18
		High	Band Edge	-19.59	-13	-6.59
		High	Extended	-33.85	-25	-8.84
LTE B7	20 MHz	Low	Band Edge	-21.81	-10	-11.81
		High	Band Edge	-32.45	-10	-22.45
	15 MHz	Low	Band Edge	-20.03	-10	-10.03
		High	Band Edge	-31.25	-10	-21.25
	10 MHz	Low	Band Edge	-19.36	-10	-9.36
		High	Band Edge	-24.16	-10	-14.16
	5 MHz	Low	Band Edge	-41.10	-25	-16.10
		High	Band Edge	-39.43	-25	-14.43
LTE B41 PC2	20 MHz	Low	Band Edge	-33.15	-25	-8.15
		High	Band Edge	-41.23	-25	-16.23
	15 MHz	Low	Band Edge	-30.45	-25	-5.45
		High	Band Edge	-39.04	-25	-14.04
	10 MHz	Low	Band Edge	-33.01	-25	-8.01
		High	Band Edge	-37.80	-25	-12.80
	5 MHz	Low	Band Edge	-26.54	-13	-13.54
		High	Band Edge	-36.91	-25	-11.91
LTE B41 PC3	20 MHz	Low	Band Edge	-27.48	-25	-2.48
		High	Band Edge	-31.10	-13	-18.10
	15 MHz	Low	Band Edge	-28.56	-25	-3.56
		High	Band Edge	-40.09	-25	-15.09
	10 MHz	Low	Band Edge	-27.36	-25	-2.36
		High	Band Edge	-39.02	-25	-14.02
	5 MHz	Low	Band Edge	-17.81	-13	-4.81
		High	Band Edge	-23.90	-10	-13.90
LTE-B41 PC2 ULCA	20+20MHz	Low	Band Edge	-27.02	-25	-2.02
		High	Band Edge	-34.09	-25	-9.09
LTE-B41 PC3 ULCA	20+20MHz	Low	Band Edge	-29.59	-25	-4.59
		High	Band Edge	-36.92	-25	-11.92

Table 7-35. Conducted Band Edge Test Results – LTE – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 30 – Ant2

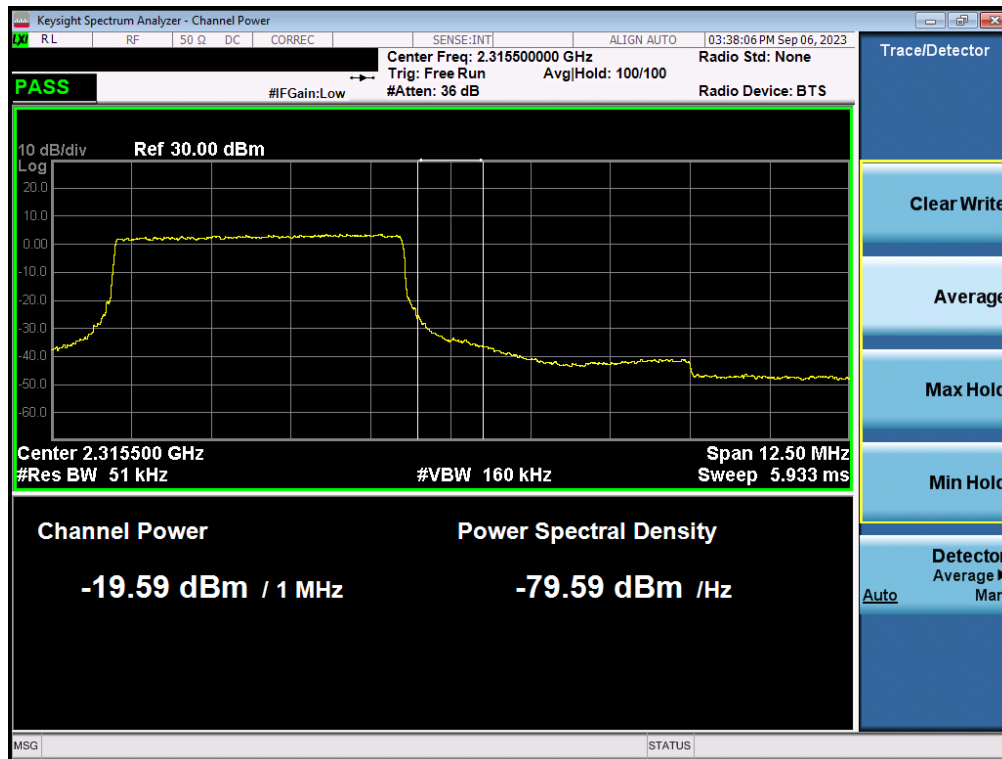


Plot 7-281. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant2)

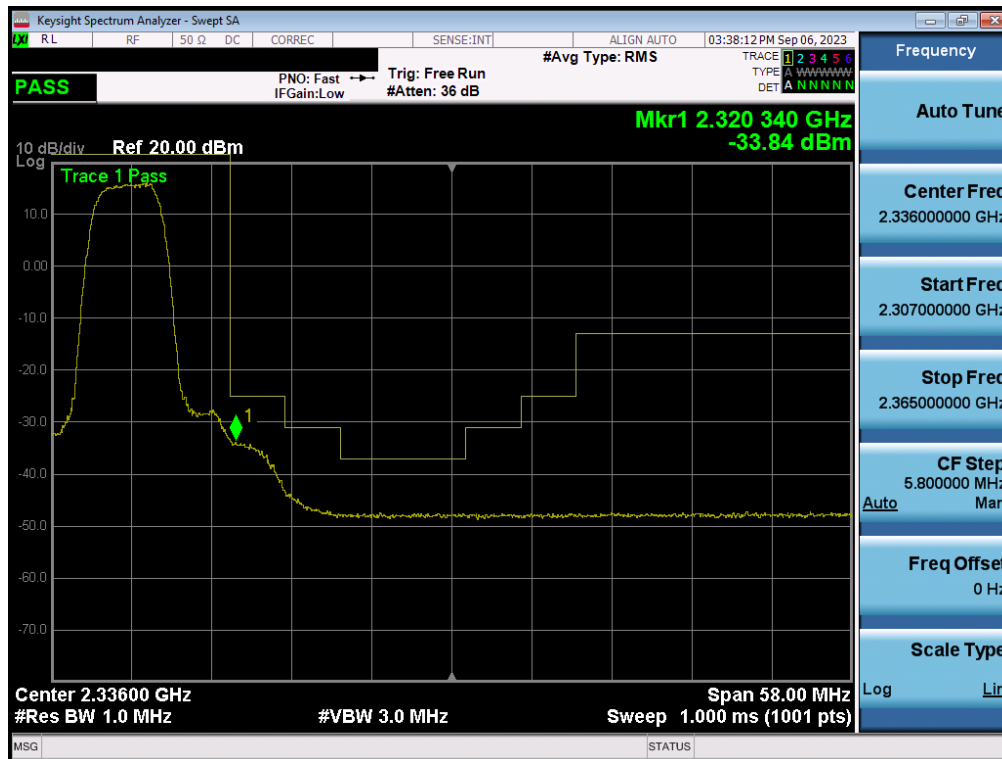


Plot 7-282. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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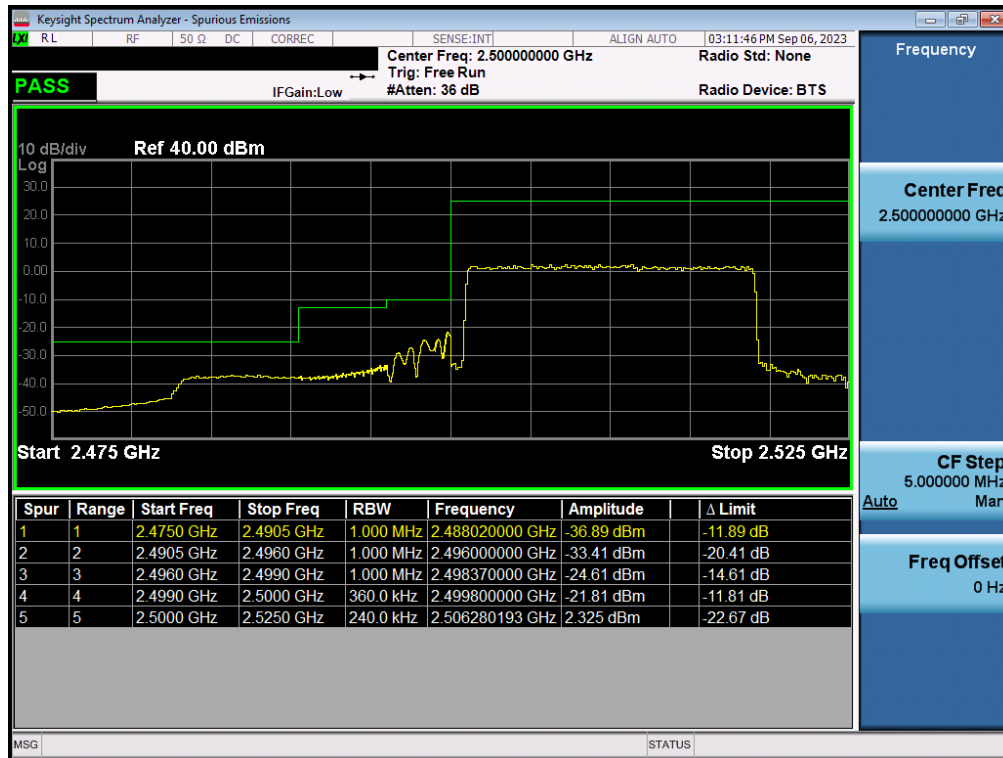
Plot 7-283. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant2)



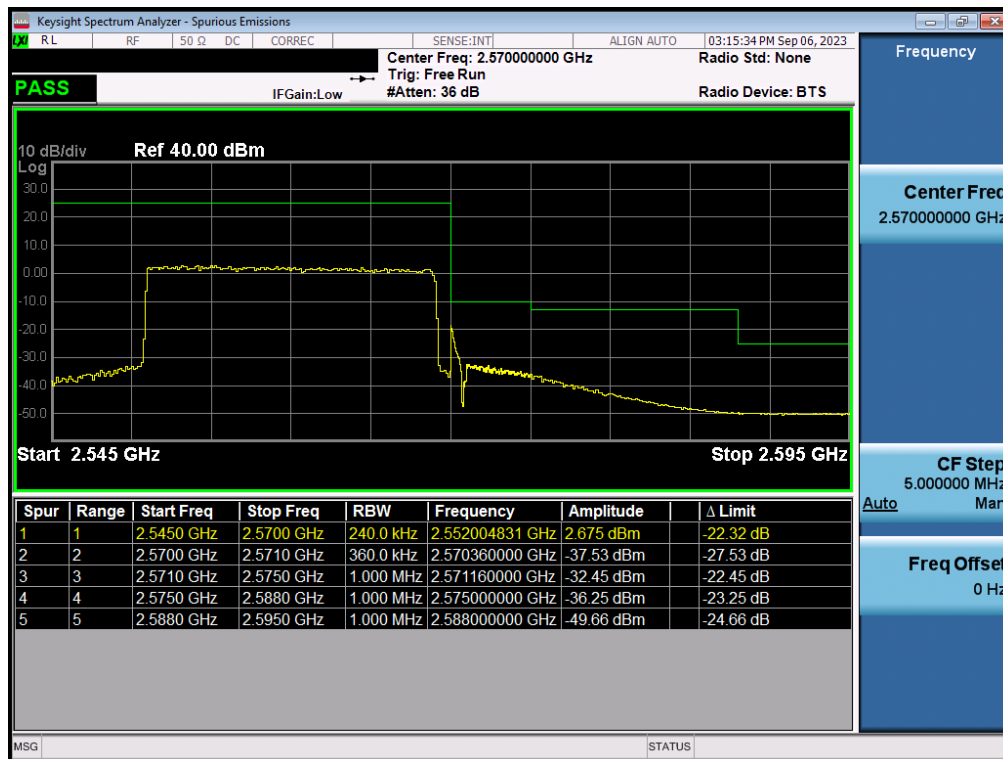
Plot 7-284. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 7 – Ant2



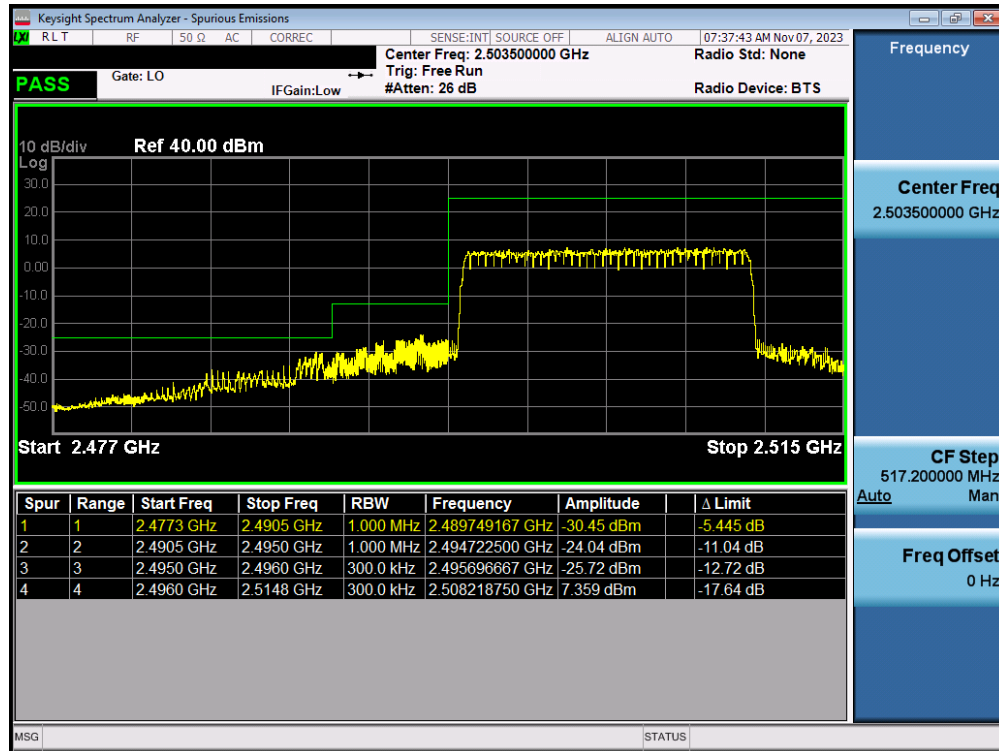
Plot 7-285. Lower ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant2)



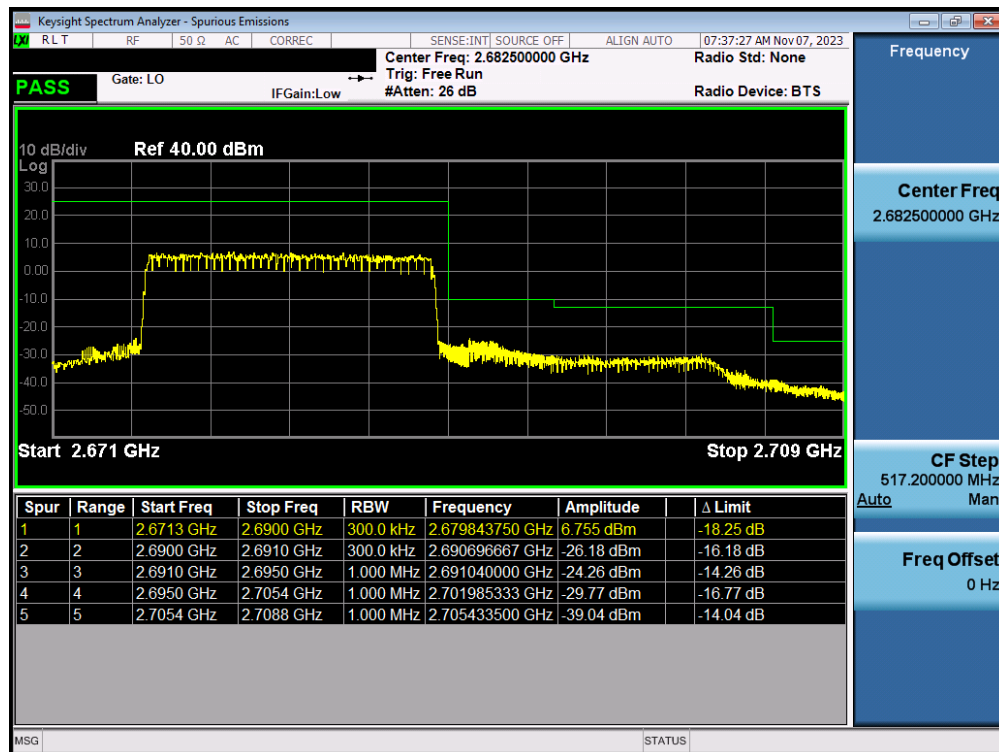
Plot 7-286. Upper ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC2) – Ant2



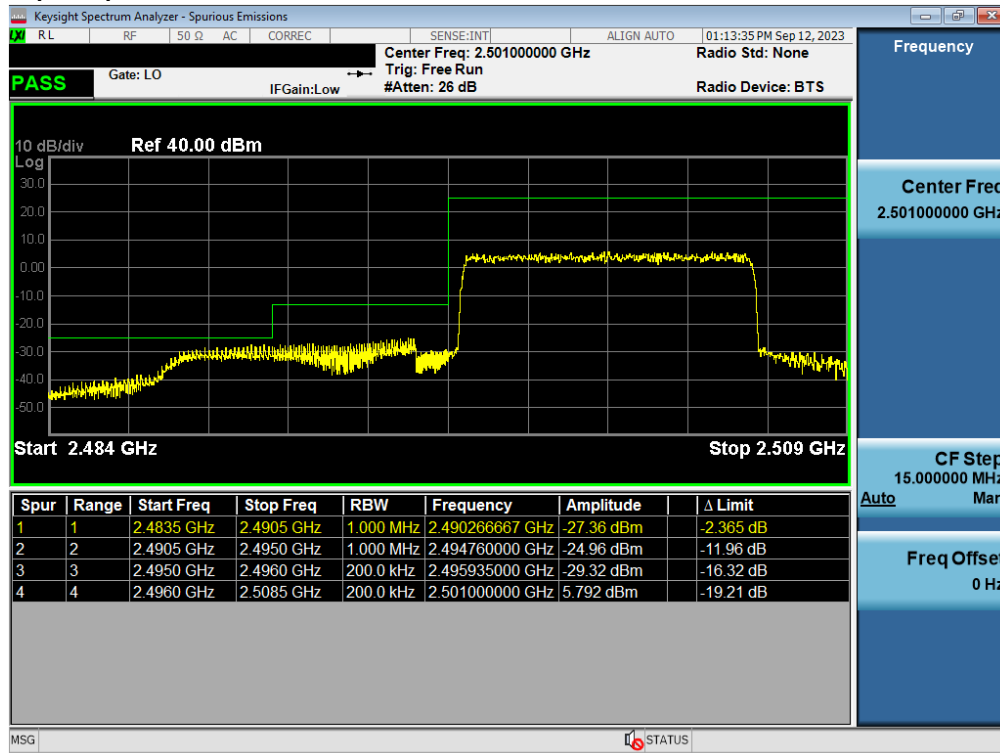
Plot 7-287. Lower ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant2)



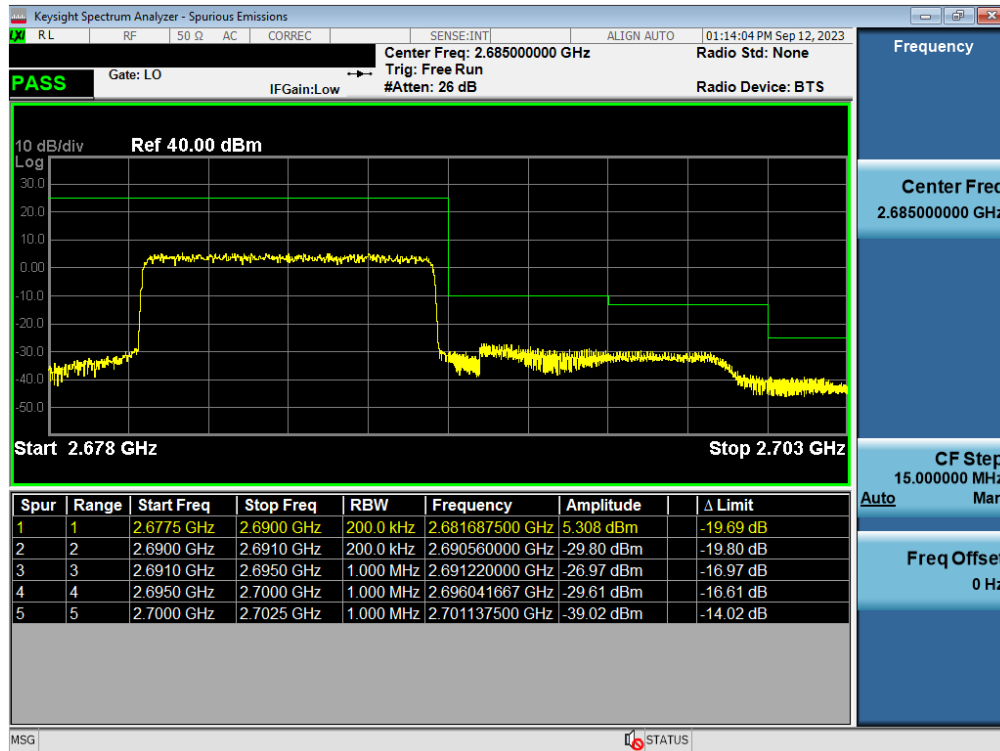
Plot 7-288. Upper ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC3) – Ant2



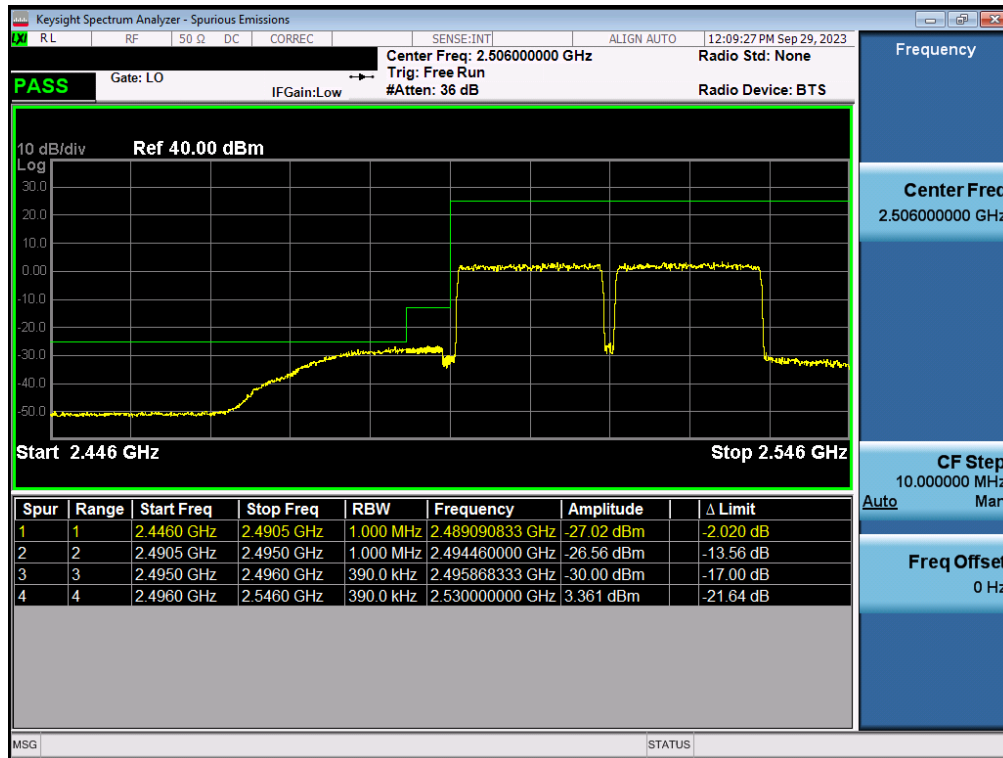
Plot 7-289. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant2)



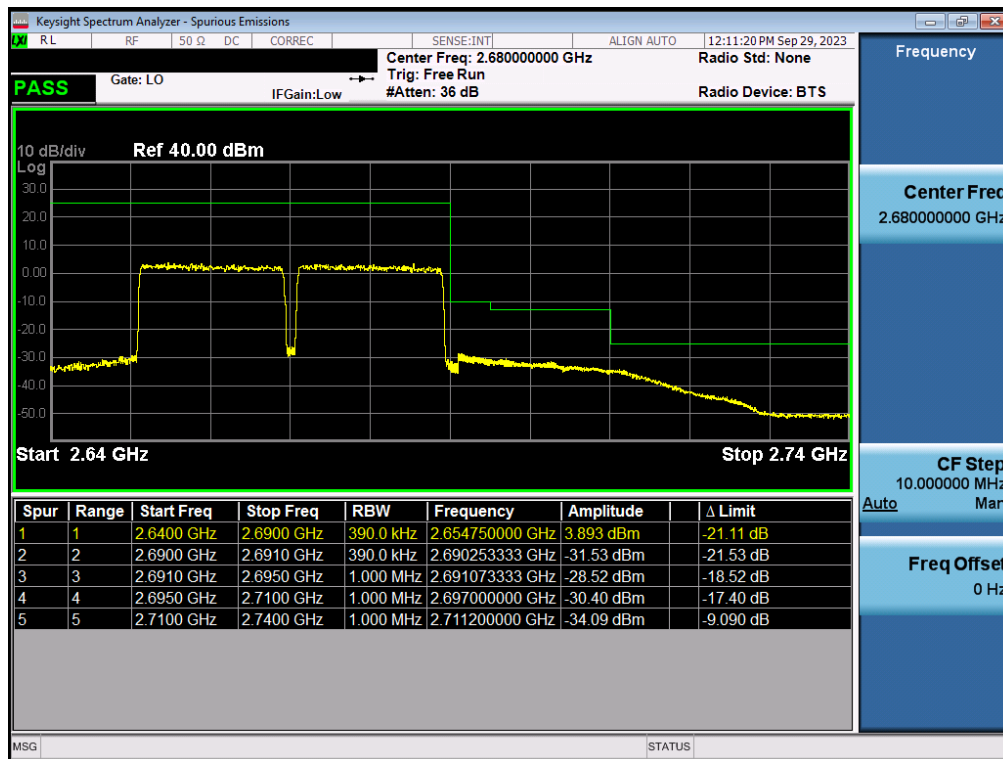
Plot 7-290. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - LTE Band 41(PC2) – Ant2



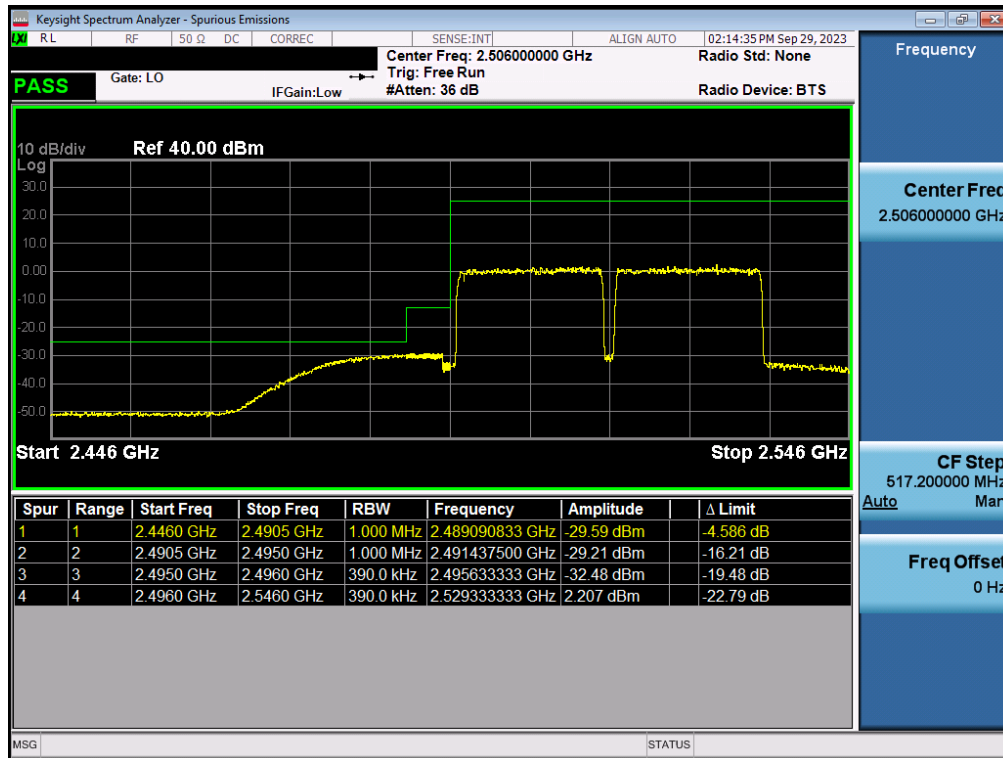
Plot 7-291. Lower ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – Full RB - Ant2)



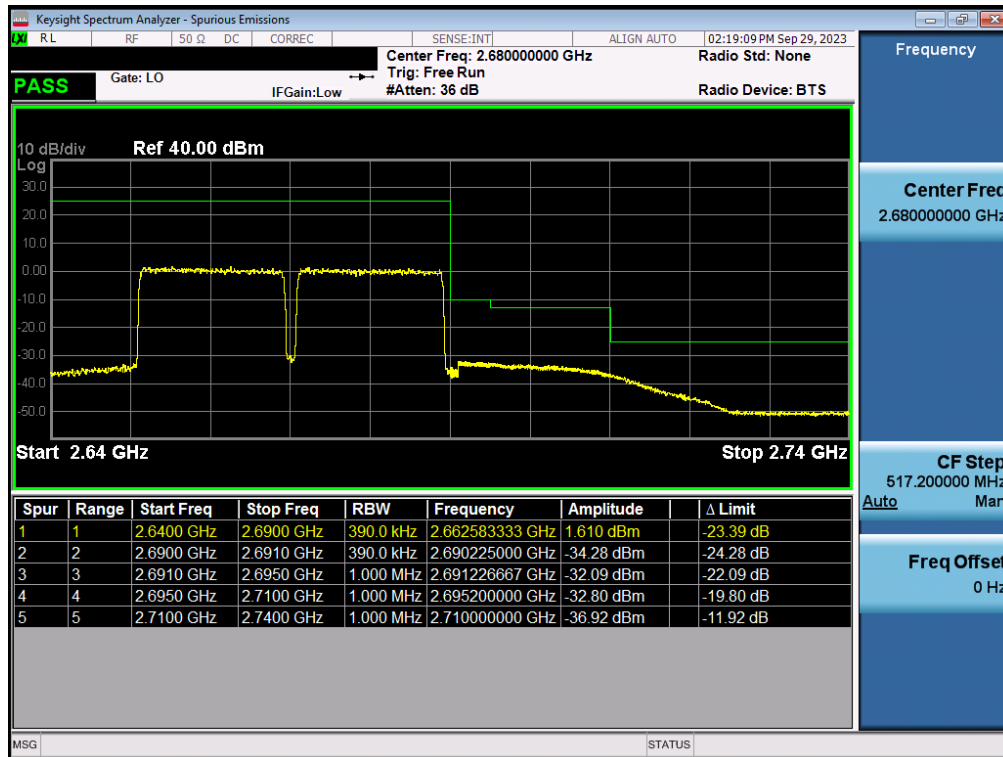
Plot 7-292. Upper ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - LTE Band 41(PC3) – Ant2



Plot 7-293. Lower ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant2)



Plot 7-294. Upper ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Level [dBm]	Limit [dBm]	Margin [dB]
NR n30	10 MHz	Low	-17.86	-13	-4.86
		Low	-38.20	-37	-1.20
		High	-17.37	-13	-4.37
		High	-40.85	-37	-3.85
	5 MHz	Low	-25.25	-13	-12.25
		Low	-15.07	-13	-2.07
		High	-25.50	-13	-12.50
		High	-32.34	-25	-7.34
NR n7	40 MHz	Low	-39.57	-25	-14.57
		High	-48.74	-25	-23.74
	35 MHz	Low	-39.65	-25	-14.65
		High	-48.81	-25	-23.81
	30 MHz	Low	-39.65	-25	-14.65
		High	-48.81	-25	-23.81
	25 MHz	Low	-38.83	-25	-13.83
		High	-48.30	-25	-23.30
	20 MHz	Low	-37.56	-25	-12.56
		High	-48.59	-25	-23.59
	15 MHz	Low	-36.61	-25	-11.61
		High	-47.82	-25	-22.82
	10 MHz	Low	-41.41	-25	-16.41
		High	-42.51	-25	-17.51
	5 MHz	Low	-39.73	-25	-14.73
		High	-30.61	-25	-5.61
NR n41	100 MHz	Low	-31.26	-25	-6.26
		High	-26.69	-10	-16.69

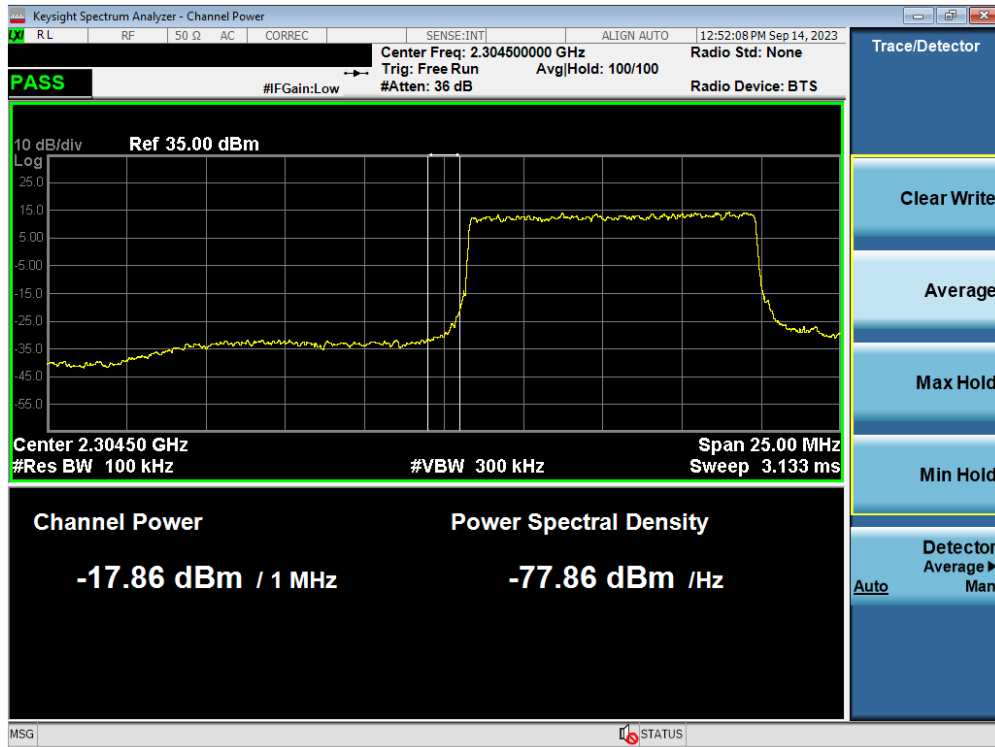
Table 7-36. Conducted Band Edge Results - NR - Ant2

Mode	Bandwidth	Channel	Level [dBm]	Limit [dBm]	Margin [dB]
NR n41	100 MHz	Low	-36.19	-25	-11.19
		High	-29.69	-10	-19.69

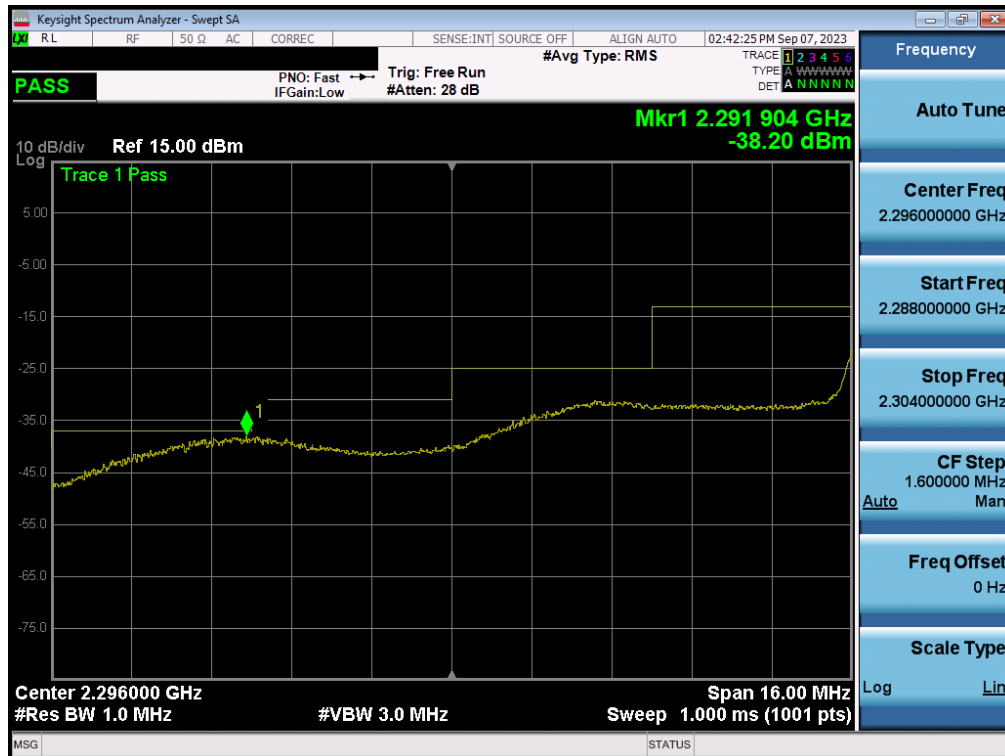
Table 7-37. Conducted Band Edge Results – NR – Ant2 – Switching

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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NR Band n30 – Ant2

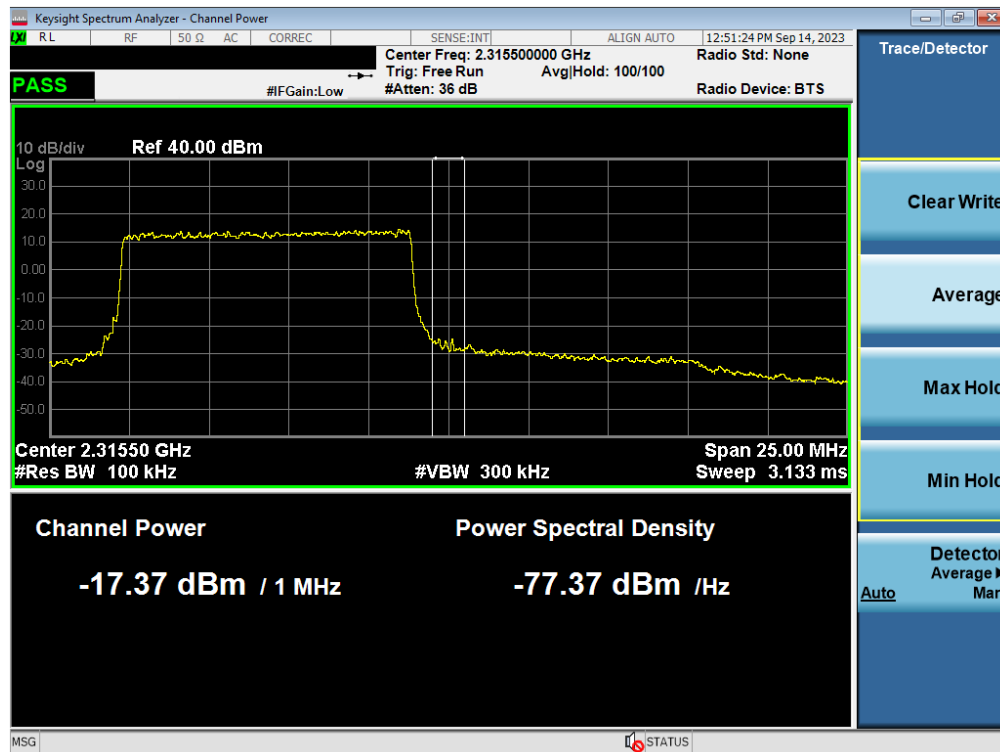


Plot 7-295. Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant2)



Plot 7-296. Extended Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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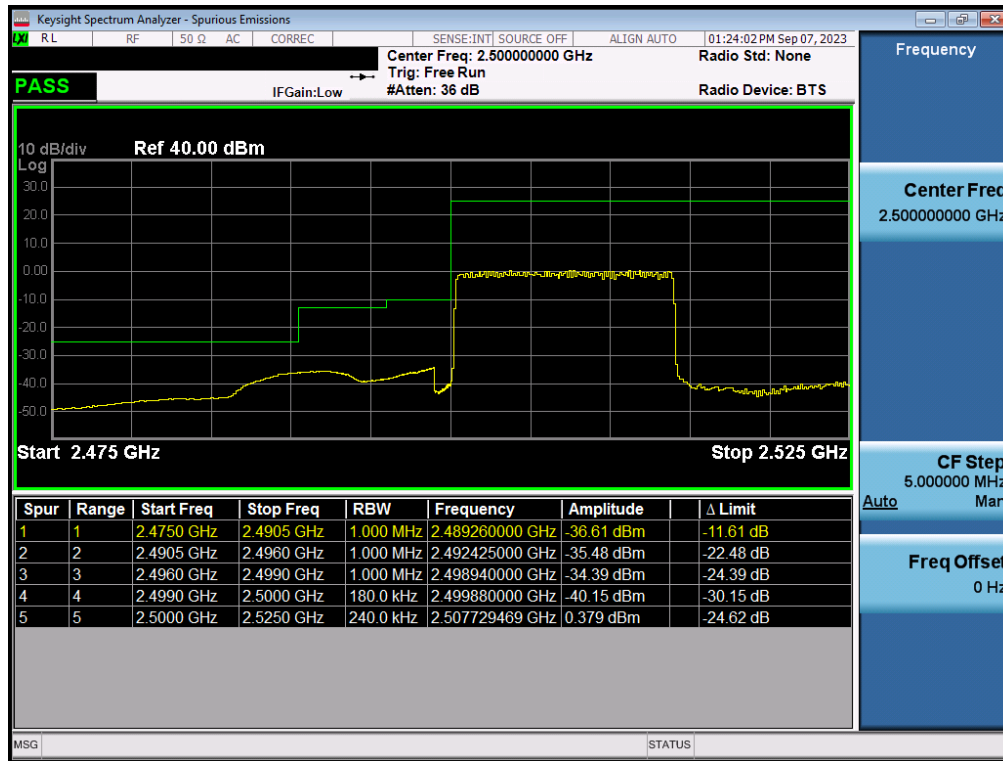
Plot 7-297. Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant2)



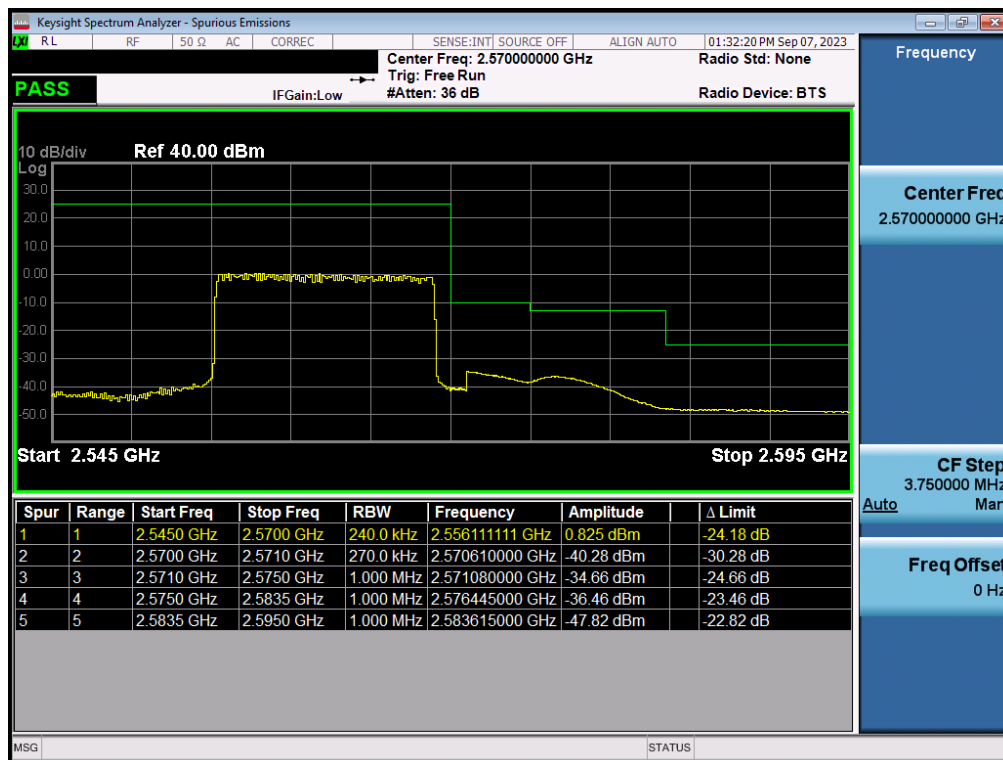
Plot 7-298. Extended Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7 – Ant2



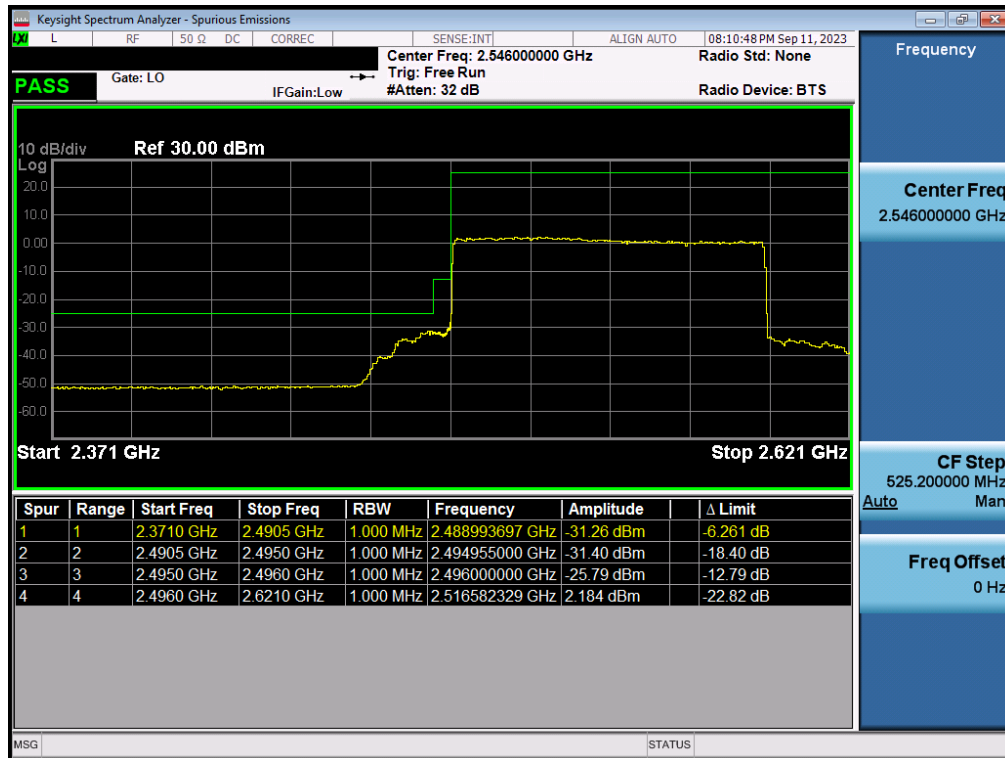
Plot 7-299. Lower Band Edge Plot (NR Band n7 - 15MHz CP-OFDM-QPSK – Full RB - Ant2)



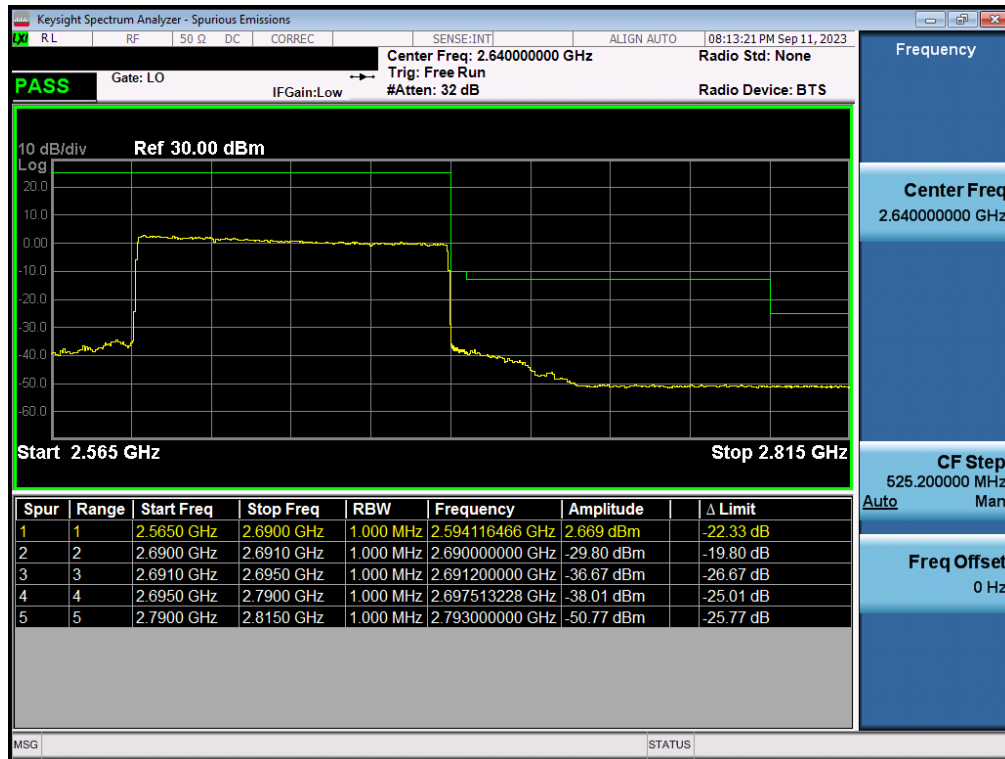
Plot 7-300. Upper Band Edge Plot (NR Band n7 - 15MHz CP-OFDM-QPSK – Full RB - Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – Ant2



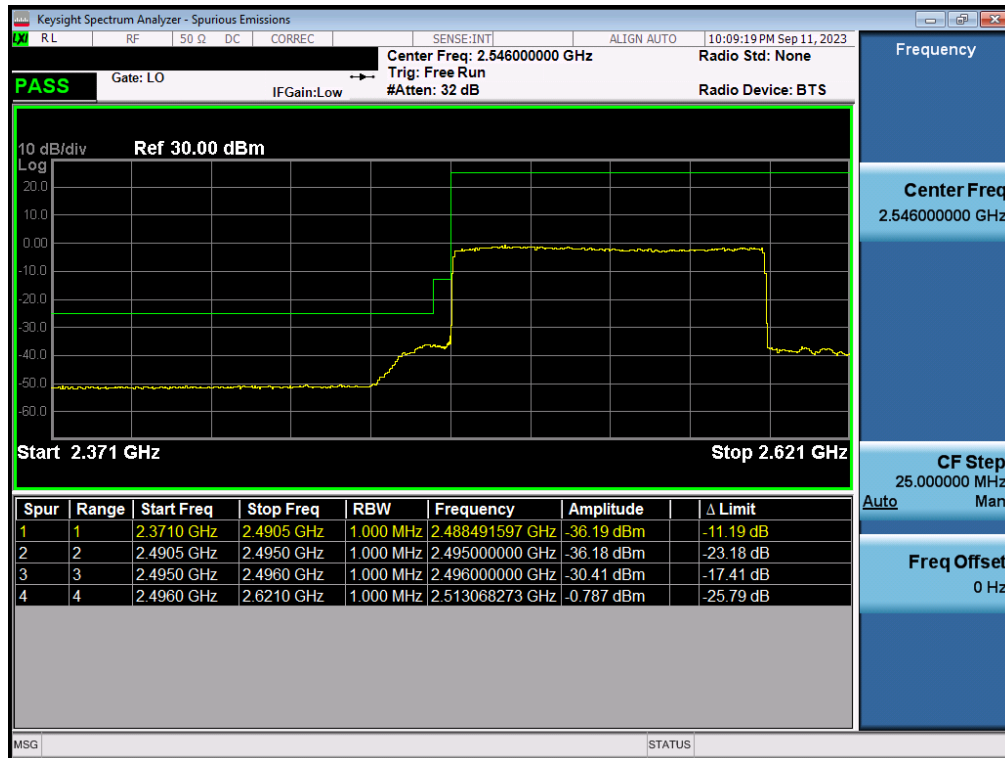
Plot 7-301. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant2)



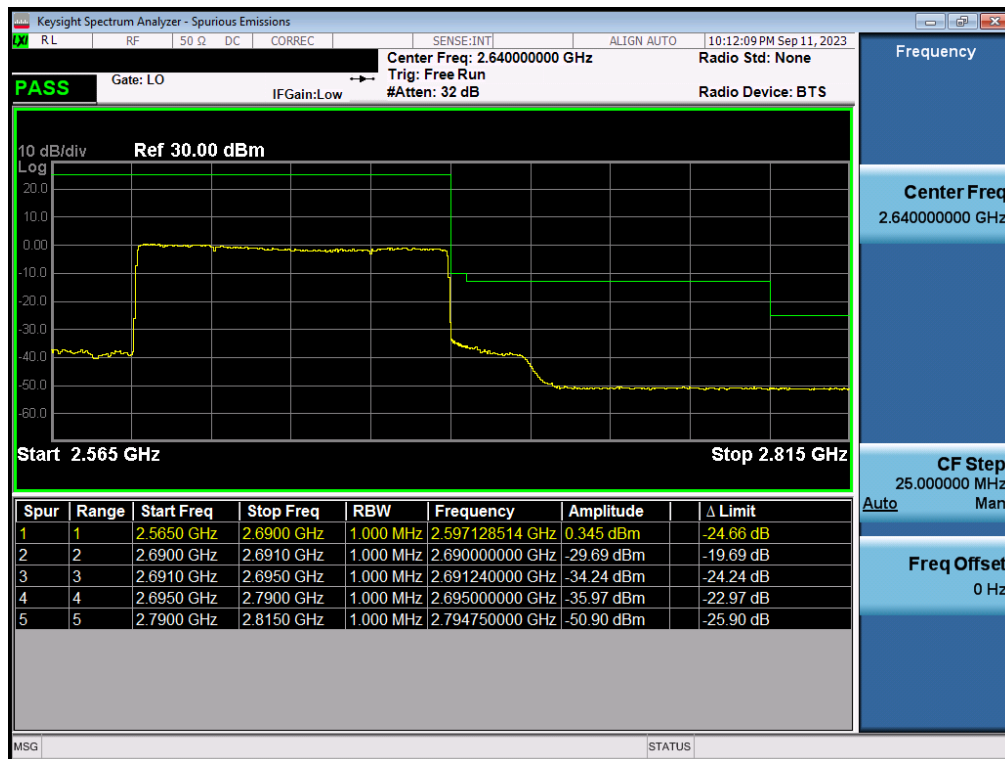
Plot 7-302. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – Ant2 – Switching



Plot 7-303. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant2)



Plot 7-304. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant2)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Level [dBm]	Limit [dBm]	Margin [dB]
NR n41	100 MHz	Low	-34.22	-25	-9.22
		High	-29.13	-10	-19.13

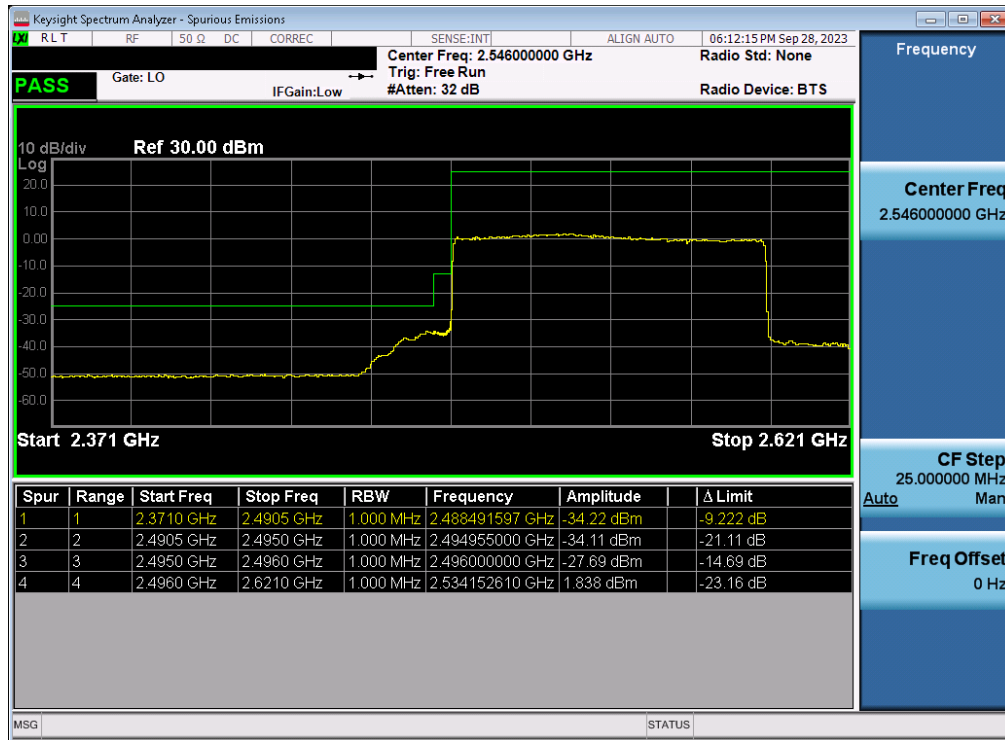
Table 7-38. Conducted Band Edge Results - NR- Ant3

Mode	Bandwidth	Channel	Level [dBm]	Limit [dBm]	Margin [dB]
NR n41	100 MHz	Low	-35.28	-25	-10.28
		High	-30.60	-10	-20.60

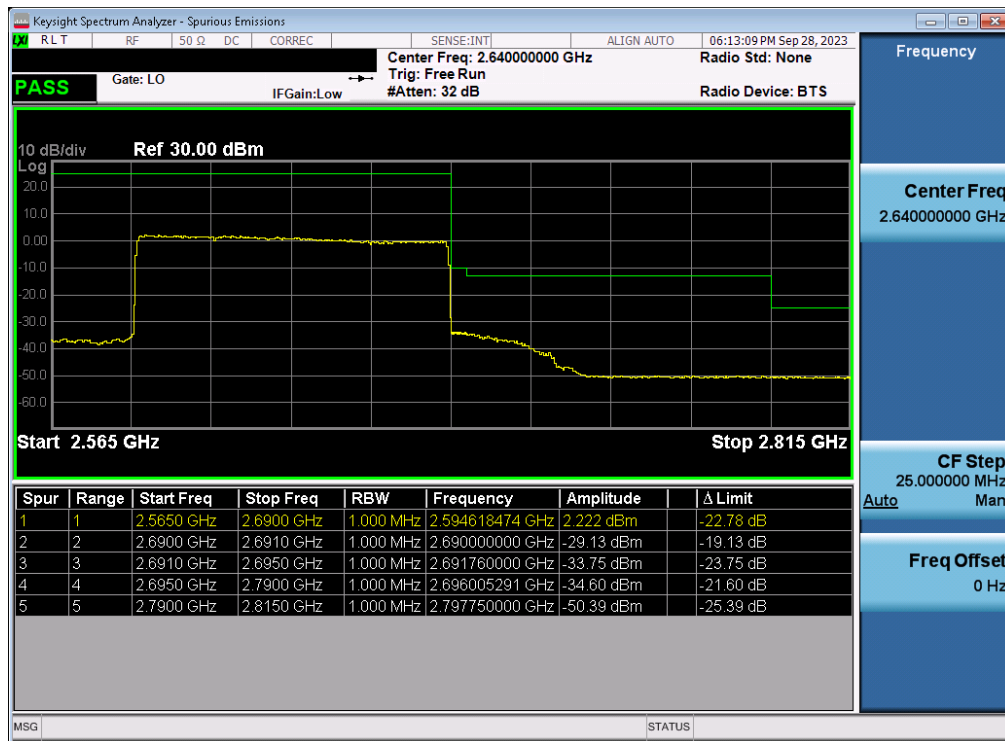
Table 7-39. Conducted Band Edge Results - NR- Ant3 - Switching

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – Ant3



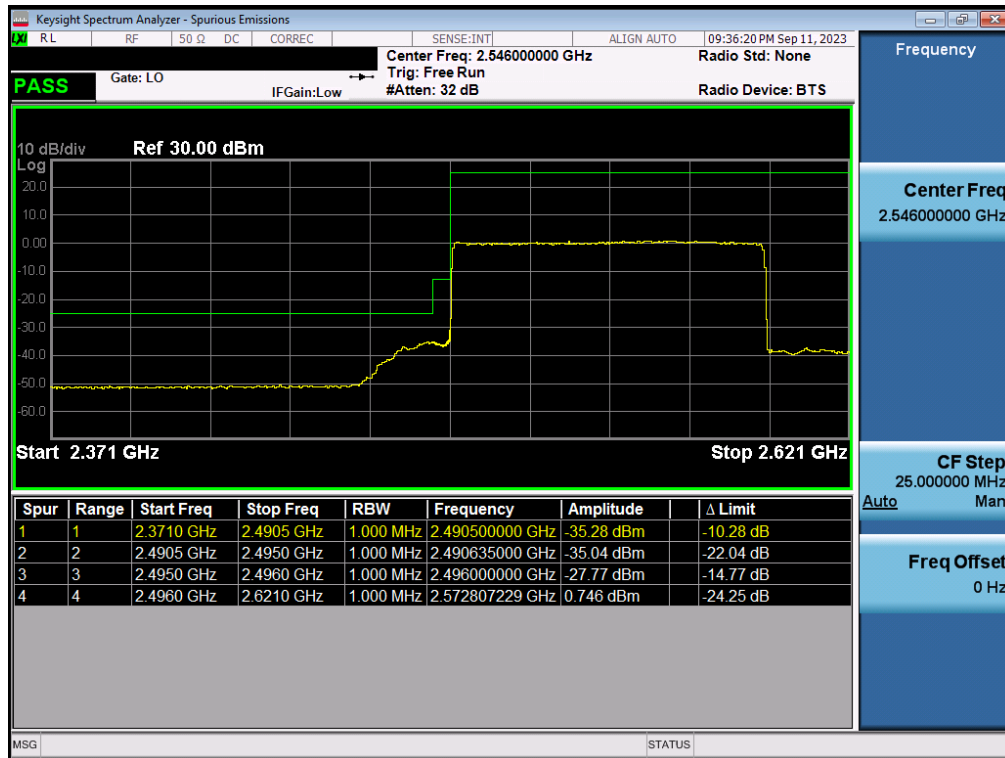
Plot 7-305. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant3)



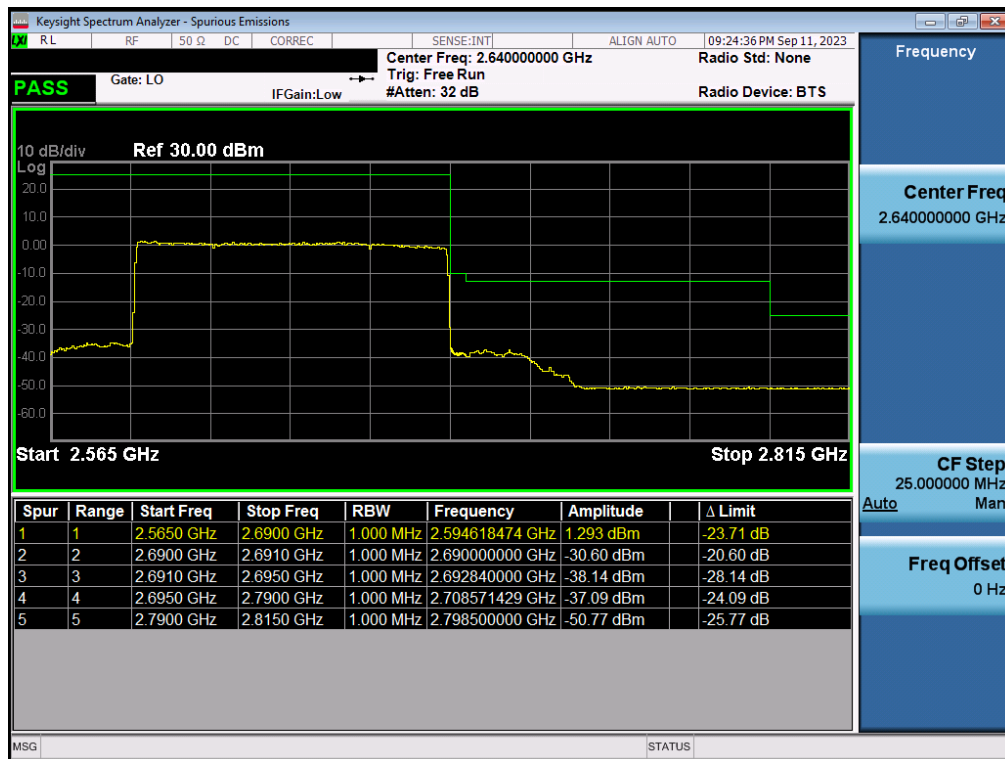
Plot 7-306. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant3)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – Ant3 – Switching



Plot 7-307. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant3)



Plot 7-308. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant3)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Level [dBm]	Limit [dBm]	Margin [dB]
NR n41	100 MHz	Low	-32.56	-25	-7.56
		High	-32.60	-10	-22.60

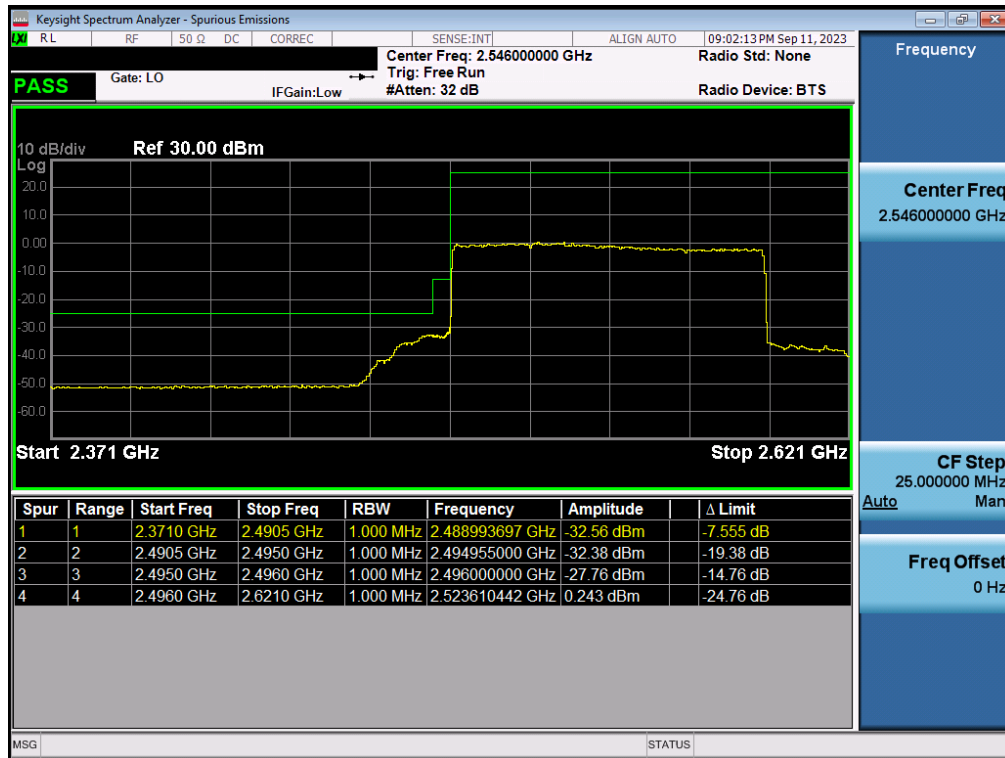
Table 7-40. Conducted Band Edge Results - NR- Ant4

Mode	Bandwidth	Channel	Level [dBm]	Limit [dBm]	Margin [dB]
NR n41	100 MHz	Low	-43.31	-25	-18.31
		High	-50.39	-25	-25.39

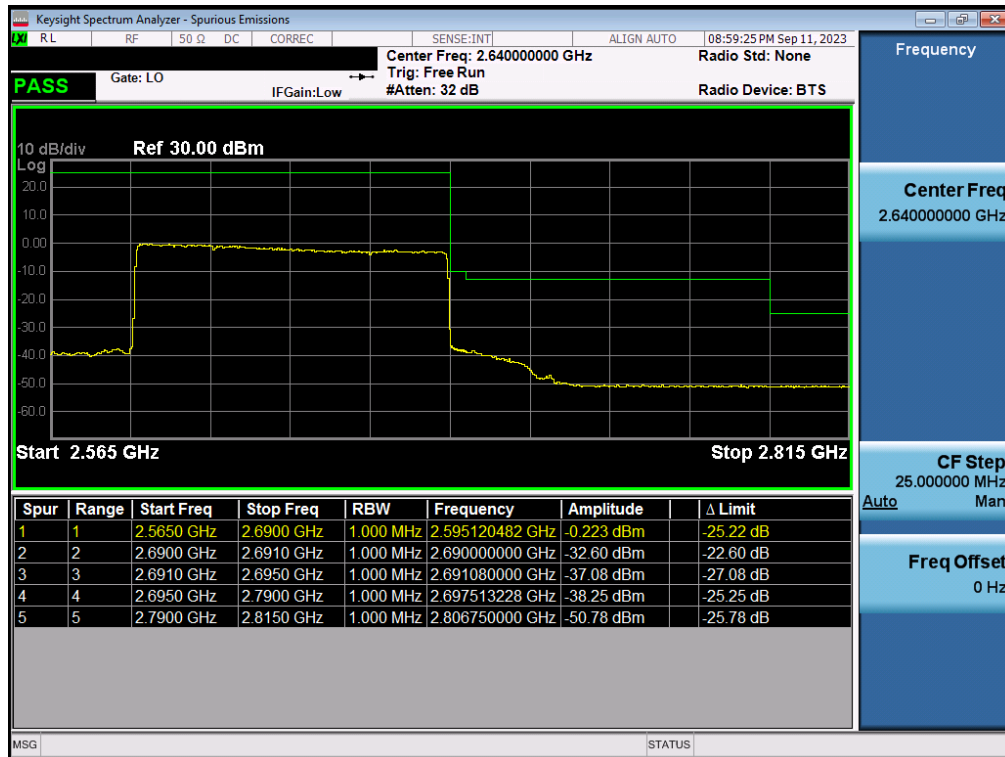
Table 7-41. Conducted Band Edge Results - NR- Ant4 - Switching

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – Ant4



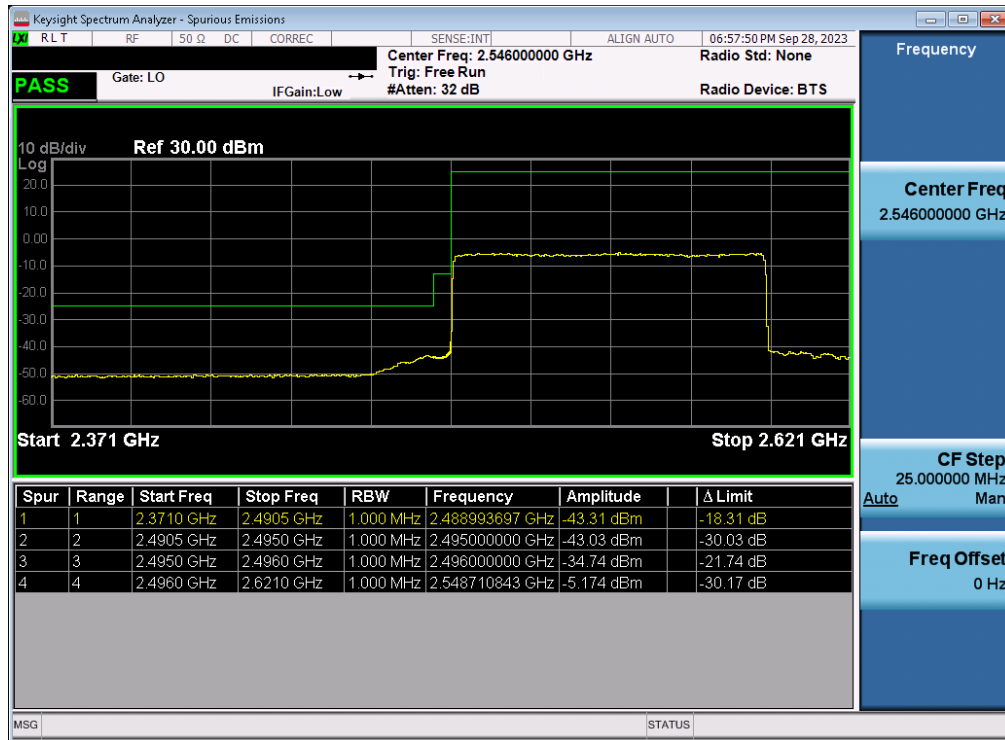
Plot 7-309. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant4)



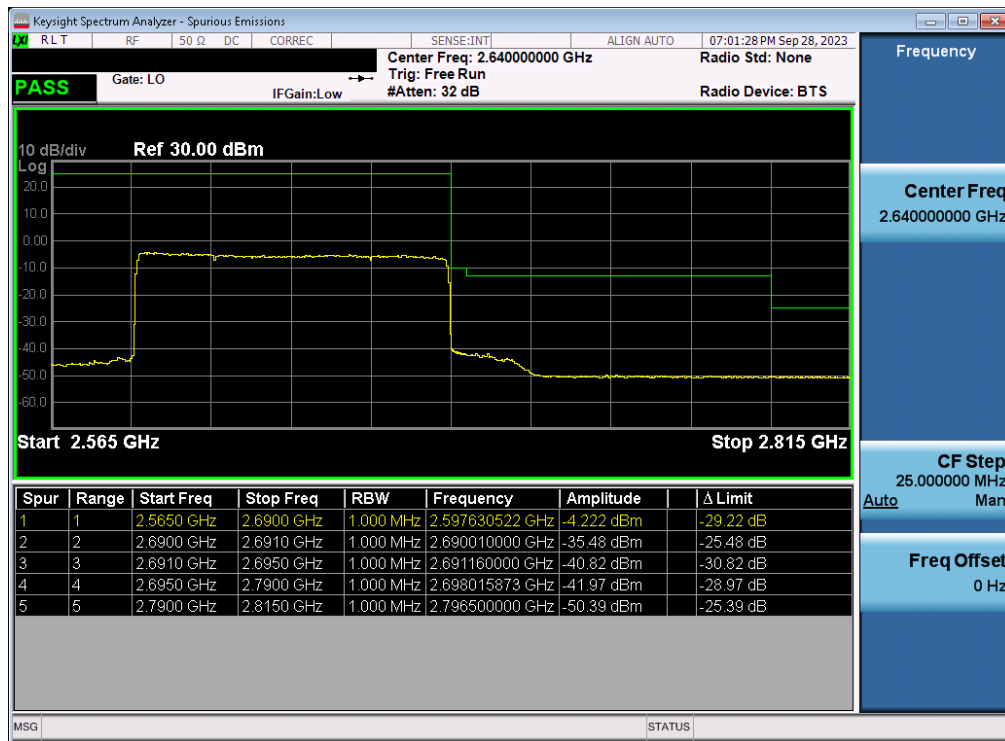
Plot 7-310. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant4)

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NR Band n41 – Ant4 – Switching



Plot 7-311. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant4)



Plot 7-312. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant4)

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7.6 Radiated Power (EIRP)

Test Overview

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. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
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". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
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.

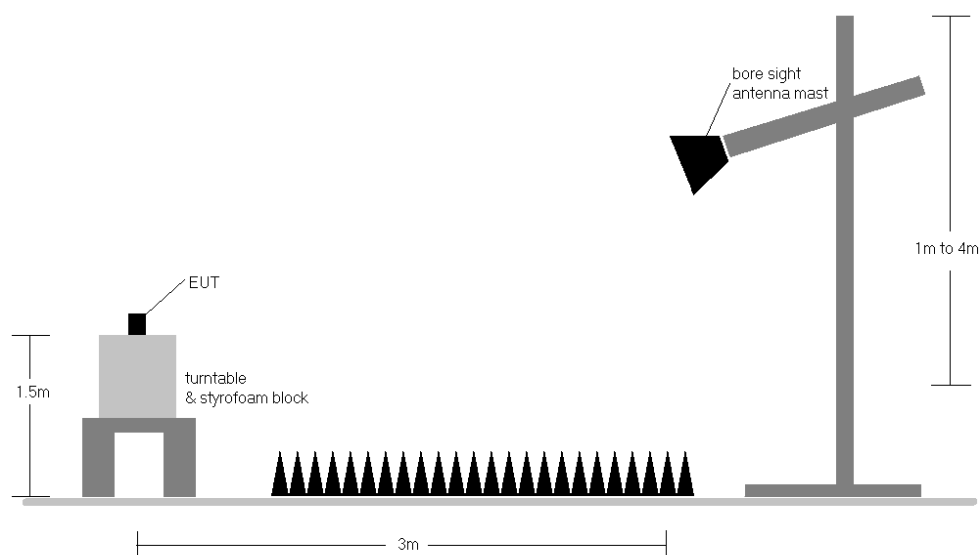


Figure 7-5. Radiated Test Setup >1GHz

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) 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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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]
10 MHz	QPSK	2310.0	H	100	163	3.66	1 / 25	17.90	21.56	0.143	23.98	-2.42
	16-QAM	2310.0	H	100	163	3.66	1 / 25	17.14	20.80	0.120	23.98	-3.18
5 MHz	QPSK	2307.5	H	100	163	3.66	1 / 12	17.89	21.54	0.143	23.98	-2.44
	QPSK	2310.0	H	100	163	3.66	1 / 24	18.12	21.78	0.151	23.98	-2.20
	QPSK	2312.5	H	100	163	3.67	1 / 0	17.95	21.61	0.145	23.98	-2.36
	16-QAM	2312.5	H	100	163	3.67	1 / 0	17.27	20.93	0.124	23.98	-3.05
10 MHz	Opposite Pol.	2310.0	V	144	317	3.66	1 / 25	15.55	19.21	0.083	23.98	-4.77
	WCP	2310.0	H	102	166	3.66	1 / 25	16.79	20.45	0.111	23.98	-3.53

Table 7-313. EIRP Data (LTE Band 30) – Ant1

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	2510.0	H	156	148	4.18	1 / 50	18.55	22.73	0.187	33.01	-10.28
	QPSK	2535.0	H	141	151	4.19	1 / 0	19.70	23.89	0.245	33.01	-9.12
	QPSK	2560.0	H	162	146	4.15	1 / 50	19.80	23.95	0.248	33.01	-9.06
	16-QAM	2535.0	H	141	151	4.19	1 / 0	18.96	23.15	0.206	33.01	-9.86
15 MHz	QPSK	2507.5	H	156	148	4.17	1 / 37	18.50	22.68	0.185	33.01	-10.33
	QPSK	2535.0	H	141	151	4.19	1 / 37	19.84	24.02	0.253	33.01	-8.99
	QPSK	2562.5	H	162	146	4.14	1 / 74	19.90	24.04	0.253	33.01	-8.97
	16-QAM	2535.0	H	141	151	4.19	1 / 37	18.88	23.07	0.203	33.01	-9.94
10 MHz	QPSK	2505.0	H	156	148	4.17	1 / 25	18.53	22.70	0.186	33.01	-10.31
	QPSK	2535.0	H	141	151	4.19	1 / 25	19.89	24.07	0.255	33.01	-8.94
	QPSK	2565.0	H	162	146	4.13	1 / 25	20.01	24.13	0.259	33.01	-8.88
	16-QAM	2535.0	H	141	151	4.19	1 / 25	19.21	23.39	0.218	33.01	-9.62
5 MHz	QPSK	2502.5	H	156	148	4.17	1 / 12	18.52	22.69	0.186	33.01	-10.32
	QPSK	2535.0	H	141	151	4.19	1 / 12	19.89	24.07	0.255	33.01	-8.94
	QPSK	2567.5	H	162	146	4.11	1 / 24	19.98	24.09	0.257	33.01	-8.92
	16-QAM	2535.0	H	141	151	4.19	1 / 24	19.14	23.33	0.215	33.01	-9.68
20 MHz	Opposite Pol.	2560.0	V	111	255	4.15	1 / 99	15.63	19.78	0.095	33.01	-13.23
	WCP	2560.0	H	157	144	4.15	1 / 50	18.22	22.37	0.172	33.01	-10.64

Table 7-314. EIRP Data (LTE Band 7) – Ant1

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	2506.0	H	143	254	4.17	1 / 99	18.58	22.75	0.189	33.01	-10.26
	QPSK	2593.0	H	137	241	4.00	1 / 0	21.57	25.57	0.360	33.01	-7.44
	QPSK	2680.0	H	121	241	4.50	1 / 99	21.08	25.58	0.362	33.01	-7.43
	16-QAM	2593.0	H	137	241	4.00	1 / 0	20.28	24.28	0.268	33.01	-8.73
15 MHz	QPSK	2503.5	H	143	254	4.17	1 / 74	18.65	22.82	0.192	33.01	-10.19
	QPSK	2593.0	H	137	241	4.00	1 / 0	21.30	25.30	0.339	33.01	-7.71
	QPSK	2682.5	H	121	241	4.51	1 / 0	21.01	25.52	0.357	33.01	-7.49
	16-QAM	2682.5	H	121	241	4.51	1 / 0	19.74	24.25	0.266	33.01	-8.76
10 MHz	QPSK	2501.0	H	143	254	4.17	1 / 0	18.45	22.62	0.183	33.01	-10.39
	QPSK	2593.0	H	137	241	4.00	1 / 0	21.22	25.22	0.333	33.01	-7.79
	QPSK	2685.0	H	121	241	4.52	1 / 0	20.95	25.47	0.352	33.01	-7.54
	16-QAM	2685.0	H	121	241	4.52	1 / 0	19.56	24.08	0.256	33.01	-8.93
5 MHz	QPSK	2498.5	H	143	254	4.16	1 / 0	18.62	22.78	0.190	33.01	-10.23
	QPSK	2593.0	H	137	241	4.00	1 / 0	21.26	25.26	0.336	33.01	-7.75
	QPSK	2687.5	H	121	241	4.53	1 / 0	21.00	25.53	0.357	33.01	-7.48
	16-QAM	2687.5	H	121	241	4.53	1 / 0	19.60	24.13	0.259	33.01	-8.88
20 MHz	Opposite Pol.	2680.0	V	112	270	4.49	1 / 50	19.64	24.13	0.259	33.01	-8.88
	WCP	2680.0	H	124	238	4.50	1 / 50	20.32	24.82	0.303	33.01	-8.19

Table 7-315. EIRP Data (LTE Band 41(PC2)) – Ant1

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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	2506.0	H	140	253	4.17	1 / 50	17.36	21.53	0.142	33.01	-11.48
	QPSK	2593.0	H	136	247	4.00	1 / 50	18.87	22.87	0.194	33.01	-10.14
	QPSK	2680.0	H	129	245	4.50	1 / 0	19.45	23.95	0.248	33.01	-9.06
	16-QAM	2680.0	H	129	245	4.50	1 / 0	18.55	23.05	0.202	33.01	-9.96
15 MHz	QPSK	2503.5	H	140	253	4.17	1 / 74	17.19	21.36	0.137	33.01	-11.65
	QPSK	2593.0	H	136	247	4.00	1 / 0	18.70	22.70	0.186	33.01	-10.31
	QPSK	2682.5	H	129	245	4.51	1 / 0	19.24	23.75	0.237	33.01	-9.26
	16-QAM	2682.5	H	129	245	4.51	1 / 0	18.68	23.19	0.209	33.01	-9.82
10 MHz	QPSK	2501.0	H	140	253	4.17	1 / 0	17.10	21.27	0.134	33.01	-11.74
	QPSK	2593.0	H	136	247	4.00	1 / 0	18.58	22.58	0.181	33.01	-10.43
	QPSK	2685.0	H	129	245	4.52	1 / 25	19.29	23.81	0.241	33.01	-9.20
	16-QAM	2685.0	H	129	245	4.52	1 / 25	18.22	22.74	0.188	33.01	-10.27
5 MHz	QPSK	2498.5	H	140	253	4.16	1 / 24	17.30	21.46	0.140	33.01	-11.55
	QPSK	2593.0	H	136	247	4.00	1 / 0	18.72	22.72	0.187	33.01	-10.29
	QPSK	2687.5	H	129	245	4.53	1 / 0	19.35	23.88	0.244	33.01	-9.13
	16-QAM	2687.5	H	129	245	4.53	1 / 0	18.32	22.85	0.193	33.01	-10.16
20 MHz	WCP	2680.0	H	116	154	4.50	1 / 50	18.00	22.50	0.178	33.01	-10.51

Table 7-316. EIRP Data (LTE Band 41(PC3)/38) – Ant1

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]
10 MHz	$\pi/2$ BPSK	2310.0	H	178	167	3.66	1 / 1	17.85	21.51	0.142	23.98	-2.47
	QPSK	2310.0	H	178	167	3.66	1 / 1	17.83	21.49	0.141	23.98	-2.49
	16-QAM	2310.0	H	178	167	3.66	1 / 1	16.44	20.10	0.102	23.98	-3.88
5 MHz	$\pi/2$ BPSK	2307.5	H	178	167	3.66	1 / 12	17.79	21.45	0.139	23.98	-2.53
	$\pi/2$ BPSK	2310.0	H	178	167	3.66	1 / 1	18.08	21.74	0.149	23.98	-2.24
	$\pi/2$ BPSK	2312.5	H	178	167	3.67	1 / 1	17.57	21.24	0.133	23.98	-2.74
	QPSK	2307.5	H	178	167	3.66	1 / 12	17.93	21.59	0.144	23.98	-2.39
	QPSK	2310.0	H	178	167	3.66	1 / 1	17.98	21.64	0.146	23.98	-2.34
	QPSK	2312.5	H	178	167	3.67	1 / 1	17.71	21.38	0.137	23.98	-2.60
	16-QAM	2310.0	H	178	167	3.66	1 / 1	16.84	20.51	0.112	23.98	-3.47
10 MHz	QPSK (CP-OFDM)	2310.0	H	178	167	3.66	1 / 1	16.34	20.00	0.100	23.98	-3.98
	Opposite Pol.	2310.0	V	142	273	3.57	1 / 1	17.38	20.95	0.125	23.98	-3.03
	WCP	2310.0	H	174	157	3.66	1 / 1	16.26	19.92	0.098	23.98	-4.06

Table 7-317. EIRP Data (NR Band n30) – Ant1

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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]
40 MHz	π/2 BPSK	2520.0	H	112	164	4.18	1 / 1	18.06	22.24	0.167	33.01	-10.77
	π/2 BPSK	2535.0	H	114	163	4.19	1 / 214	18.01	22.20	0.166	33.01	-10.81
	π/2 BPSK	2550.0	H	103	159	4.19	1 / 108	18.94	23.13	0.206	33.01	-9.88
	QPSK	2520.0	H	112	164	4.18	1 / 1	18.21	22.39	0.173	33.01	-10.62
	QPSK	2535.0	H	114	163	4.19	1 / 214	18.09	22.28	0.169	33.01	-10.73
	QPSK	2550.0	H	103	159	4.19	1 / 108	18.77	22.96	0.198	33.01	-10.05
35 MHz	16-QAM	2550.0	H	103	159	4.19	1 / 108	17.79	21.98	0.158	33.01	-11.03
	π/2 BPSK	2517.5	H	112	164	4.18	1 / 214	18.64	22.82	0.192	33.01	-10.19
	π/2 BPSK	2535.0	H	114	163	4.19	1 / 108	18.52	22.71	0.187	33.01	-10.30
	π/2 BPSK	2552.5	H	103	159	4.17	1 / 108	19.46	23.63	0.231	33.01	-9.38
	QPSK	2517.5	H	112	164	4.18	1 / 214	19.07	23.24	0.211	33.01	-9.77
	QPSK	2535.0	H	114	163	4.19	1 / 108	18.59	22.78	0.190	33.01	-10.23
30 MHz	QPSK	2552.5	H	103	159	4.17	1 / 108	19.42	23.59	0.229	33.01	-9.42
	16-QAM	2552.5	H	103	159	4.17	1 / 108	18.15	22.32	0.171	33.01	-10.69
	π/2 BPSK	2515.0	H	112	164	4.18	1 / 108	18.14	22.32	0.171	33.01	-10.69
	π/2 BPSK	2535.0	H	114	163	4.19	1 / 108	18.18	22.37	0.173	33.01	-10.64
	π/2 BPSK	2555.0	H	103	159	4.17	1 / 108	19.13	23.30	0.214	33.01	-9.71
	QPSK	2515.0	H	112	164	4.18	1 / 108	18.41	22.59	0.181	33.01	-10.42
25 MHz	QPSK	2535.0	H	114	163	4.19	1 / 108	18.10	22.29	0.169	33.01	-10.72
	QPSK	2555.0	H	103	159	4.17	1 / 108	18.96	23.14	0.206	33.01	-9.88
	16-QAM	2555.0	H	103	159	4.17	1 / 108	17.89	22.06	0.161	33.01	-10.95
	π/2 BPSK	2512.5	H	112	164	4.18	1 / 108	18.15	22.33	0.171	33.01	-10.69
	π/2 BPSK	2535.0	H	114	163	4.19	1 / 214	18.27	22.46	0.176	33.01	-10.55
	π/2 BPSK	2557.5	H	103	159	4.16	1 / 108	19.35	23.51	0.225	33.01	-9.50
20 MHz	QPSK	2512.5	H	112	164	4.18	1 / 108	18.37	22.55	0.180	33.01	-10.46
	QPSK	2535.0	H	114	163	4.19	1 / 214	18.14	22.33	0.171	33.01	-10.68
	QPSK	2557.5	H	103	159	4.16	1 / 108	19.05	23.20	0.209	33.01	-9.81
	16-QAM	2557.5	H	103	159	4.16	1 / 108	17.94	22.10	0.162	33.01	-10.91
	π/2 BPSK	2510.0	H	112	164	4.18	1 / 214	18.09	22.26	0.168	33.01	-10.75
	π/2 BPSK	2535.0	H	114	163	4.19	1 / 1	18.17	22.36	0.172	33.01	-10.65
15 MHz	π/2 BPSK	2560.0	H	103	159	4.15	1 / 108	19.12	23.27	0.212	33.01	-9.74
	QPSK	2510.0	H	112	164	4.18	1 / 214	18.43	22.61	0.182	33.01	-10.40
	QPSK	2535.0	H	114	163	4.19	1 / 1	18.09	22.28	0.169	33.01	-10.74
	QPSK	2560.0	H	103	159	4.15	1 / 108	18.90	23.05	0.202	33.01	-9.96
	16-QAM	2560.0	H	103	159	4.15	1 / 108	18.01	22.16	0.164	33.01	-10.85
	π/2 BPSK	2507.5	H	112	164	4.17	1 / 214	18.08	22.25	0.168	33.01	-10.76
10 MHz	π/2 BPSK	2535.0	H	114	163	4.19	1 / 108	18.14	22.32	0.171	33.01	-10.69
	π/2 BPSK	2562.5	H	103	159	4.14	1 / 214	19.06	23.20	0.209	33.01	-9.81
	QPSK	2507.5	H	112	164	4.17	1 / 214	18.40	22.57	0.181	33.01	-10.44
	QPSK	2535.0	H	114	163	4.19	1 / 108	18.07	22.26	0.168	33.01	-10.75
	QPSK	2562.5	H	103	159	4.14	1 / 214	18.92	23.06	0.202	33.01	-9.95
	16-QAM	2562.5	H	103	159	4.14	1 / 214	17.97	22.11	0.163	33.01	-10.90
5 MHz	π/2 BPSK	2505.0	H	112	164	4.17	1 / 1	18.14	22.31	0.170	33.01	-10.70
	π/2 BPSK	2535.0	H	114	163	4.19	1 / 1	18.19	22.37	0.173	33.01	-10.64
	π/2 BPSK	2565.0	H	103	159	4.13	1 / 108	19.10	23.22	0.210	33.01	-9.79
	QPSK	2505.0	H	112	164	4.17	1 / 1	18.40	22.58	0.181	33.01	-10.43
	QPSK	2535.0	H	114	163	4.19	1 / 1	18.17	22.35	0.172	33.01	-10.66
	QPSK	2565.0	H	103	159	4.13	1 / 108	18.96	23.09	0.204	33.01	-9.92
40 MHz	16-QAM	2565.0	H	103	159	4.13	1 / 108	18.10	22.22	0.167	33.01	-10.79
	π/2 BPSK	2502.5	H	112	164	4.17	1 / 214	18.15	22.32	0.171	33.01	-10.69
	π/2 BPSK	2535.0	H	114	163	4.19	1 / 108	18.25	22.43	0.175	33.01	-10.58
	π/2 BPSK	2567.5	H	103	159	4.11	1 / 1	19.29	23.41	0.219	33.01	-9.60
	QPSK	2502.5	H	112	164	4.17	1 / 214	18.49	22.66	0.184	33.01	-10.35
	QPSK	2535.0	H	114	163	4.19	1 / 108	18.28	22.46	0.176	33.01	-10.55
40 MHz	QPSK	2567.5	H	103	159	4.11	1 / 1	19.14	23.26	0.212	33.01	-9.75
	16-QAM	2567.5	H	103	159	4.11	1 / 1	17.97	22.09	0.162	33.01	-10.92
40 MHz	QPSK (CP-OFDM)	2550.0	H	103	159	4.19	1 / 108	16.78	20.97	0.125	33.01	-12.04
	QPSK (WCP)	2550.0	H	132	179	4.19	1 / 108	18.48	22.67	0.185	33.01	-10.34

Table 7-318. EIRP Data (NR Band n7) – Ant1

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]
10 MHz	QPSK	2310.0	H	110	176	3.66	1 / 25	17.50	21.16	0.131	23.98	-2.82
	16-QAM	2310.0	H	110	176	3.66	1 / 25	15.61	19.27	0.085	23.98	-4.71
5 MHz	QPSK	2307.5	H	110	176	3.66	1 / 0	17.29	20.95	0.124	23.98	-3.03
	QPSK	2310.0	H	110	176	3.66	1 / 0	17.45	21.11	0.129	23.98	-2.87
	QPSK	2312.5	H	110	176	3.67	1 / 0	17.36	21.03	0.127	23.98	-2.95
	16-QAM	2310.0	H	110	176	3.66	1 / 0	15.49	19.15	0.082	23.98	-4.83
10 MHz	Opposite Pol.	2310.0	V	123	135	3.66	1 / 49	15.49	19.15	0.082	23.98	-4.83
	WCP	2310.0	H	121	174	3.66	1 / 25	16.91	20.57	0.114	23.98	-3.41

Table 7-319. EIRP Data (LTE Band 30) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT										Approved by: Technical Manager	
Test Report S/N: 1M2308210092-05.A3L	Test Dates: 9/6 – 11/7/2023	EUT Type: Portable Handset									Page 220 of 283	

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]
10 MHz	$\pi/2$ BPSK	2310.0	H	139	329	3.66	1 / 50	18.52	22.18	0.165	23.98	-1.80
	QPSK	2310.0	H	139	329	3.66	1 / 50	18.42	22.08	0.161	23.98	-1.90
	16-QAM	2310.0	H	139	329	3.66	1 / 50	17.07	20.73	0.118	23.98	-3.25
5 MHz	$\pi/2$ BPSK	2307.5	H	139	329	3.66	1 / 1	18.55	22.20	0.166	23.98	-1.78
	$\pi/2$ BPSK	2310.0	H	139	329	3.66	1 / 23	18.80	22.46	0.176	23.98	-1.52
	$\pi/2$ BPSK	2312.5	H	139	329	3.67	1 / 1	18.59	22.26	0.168	23.98	-1.72
	QPSK	2307.5	H	139	329	3.66	1 / 1	18.46	22.12	0.163	23.98	-1.86
	QPSK	2310.0	H	139	329	3.66	1 / 23	18.60	22.26	0.168	23.98	-1.72
	QPSK	2312.5	H	139	329	3.67	1 / 1	18.60	22.26	0.168	23.98	-1.71
	16-QAM	2307.5	H	139	329	3.66	1 / 1	17.04	20.70	0.117	23.98	-3.28
	16-QAM	2310.0	H	139	329	3.66	1 / 23	16.74	20.40	0.110	23.98	-3.58
	16-QAM	2312.5	H	139	329	3.67	1 / 1	16.80	20.47	0.111	23.98	-3.51
10 MHz	QPSK (CP-OFDM)	2310.0	H	139	329	3.66	1 / 50	17.11	20.77	0.119	23.98	-3.21
	Opposite Pol.	2310.0	V	278	114	3.57	1 / 1	15.91	19.48	0.089	23.98	-4.50
	WCP	2310.0	H	134	330	3.66	1 / 50	17.82	21.48	0.141	23.98	-2.50

Table 7-320. EIRP Data (NR Band n30) – Ant2

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	2510.0	H	122	163	4.18	1 / 50	18.43	22.61	0.182	33.01	-10.40
	QPSK	2535.0	H	125	165	4.19	1 / 50	18.25	22.44	0.175	33.01	-10.57
	QPSK	2560.0	H	120	165	4.15	1 / 50	18.21	22.36	0.172	33.01	-10.65
	16-QAM	2510.0	H	122	163	4.18	1 / 50	17.53	21.71	0.148	33.01	-11.30
15 MHz	QPSK	2507.5	H	122	163	4.17	1 / 74	18.45	22.62	0.183	33.01	-10.39
	QPSK	2535.0	H	125	165	4.19	1 / 74	18.26	22.44	0.176	33.01	-10.57
	QPSK	2562.5	H	120	165	4.14	1 / 74	18.27	22.41	0.174	33.01	-10.60
	16-QAM	2507.5	H	122	163	4.17	1 / 74	17.77	21.94	0.156	33.01	-11.07
10 MHz	QPSK	2505.0	H	122	163	4.17	1 / 49	18.69	22.86	0.193	33.01	-10.15
	QPSK	2535.0	H	125	165	4.19	1 / 49	18.22	22.40	0.174	33.01	-10.61
	QPSK	2565.0	H	120	165	4.13	1 / 25	18.53	22.65	0.184	33.01	-10.36
	16-QAM	2505.0	H	122	163	4.17	1 / 49	17.89	22.07	0.161	33.01	-10.95
5 MHz	QPSK	2502.5	H	122	163	4.17	1 / 24	18.66	22.83	0.192	33.01	-10.18
	QPSK	2535.0	H	125	165	4.19	1 / 12	18.37	22.56	0.180	33.01	-10.45
	QPSK	2567.5	H	120	165	4.11	1 / 24	18.72	22.83	0.192	33.01	-10.18
	16-QAM	2502.5	H	122	163	4.17	1 / 24	17.58	21.75	0.150	33.01	-11.26
20 MHz	Opposite Pol.	2510.0	V	115	223	4.15	1 / 50	16.52	20.67	0.117	33.01	-12.34
	WCP	2510.0	H	122	161	4.18	1 / 50	17.76	21.94	0.156	33.01	-11.07

Table 7-321. EIRP Data (LTE Band 7) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-05.A3L	Test Dates: 9/6 – 11/7/2023	EUT Type: Portable Handset	Page 221 of 283

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]
40 MHz	$\pi/2$ BPSK	2520.0	H	111	321	4.18	1 / 1	17.36	21.54	0.143	33.01	-11.47
	$\pi/2$ BPSK	2535.0	H	117	317	4.19	1 / 1	17.02	21.21	0.132	33.01	-11.80
	$\pi/2$ BPSK	2550.0	H	106	319	4.19	1 / 108	16.72	20.91	0.123	33.01	-12.10
	QPSK	2520.0	H	111	321	4.18	1 / 1	17.25	21.43	0.139	33.01	-11.58
	QPSK	2535.0	H	117	317	4.19	1 / 1	16.97	21.16	0.131	33.01	-11.85
	QPSK	2550.0	H	106	319	4.19	1 / 108	16.85	21.04	0.127	33.01	-11.97
	16-QAM	2550.0	H	106	319	4.19	1 / 108	16.10	20.29	0.107	33.01	-12.72
	$\pi/2$ BPSK	2517.5	H	111	321	4.18	1 / 1	17.36	21.54	0.143	33.01	-11.47
	$\pi/2$ BPSK	2535.0	H	117	317	4.19	1 / 1	17.02	21.21	0.132	33.01	-11.80
	$\pi/2$ BPSK	2552.5	H	106	319	4.19	1 / 108	16.72	20.91	0.123	33.01	-12.10
	QPSK	2517.5	H	111	321	4.18	1 / 1	17.25	21.43	0.139	33.01	-11.58
	QPSK	2535.0	H	117	317	4.19	1 / 1	16.97	21.16	0.131	33.01	-11.85
35 MHz	QPSK	2552.5	H	106	319	4.19	1 / 108	16.85	21.04	0.127	33.01	-11.97
	16-QAM	2535.0	H	117	317	4.19	1 / 1	16.14	20.33	0.108	33.01	-12.68
	$\pi/2$ BPSK	2515.0	H	111	321	4.18	1 / 108	17.31	21.49	0.141	33.01	-11.52
	$\pi/2$ BPSK	2535.0	H	117	317	4.19	1 / 1	16.98	21.17	0.131	33.01	-11.84
	$\pi/2$ BPSK	2555.0	H	106	319	4.17	1 / 214	16.82	20.99	0.126	33.01	-12.02
	QPSK	2515.0	H	111	321	4.18	1 / 108	17.07	21.25	0.133	33.01	-11.76
	QPSK	2535.0	H	117	317	4.19	1 / 1	16.85	21.03	0.127	33.01	-11.98
	QPSK	2555.0	H	106	319	4.17	1 / 214	16.85	21.02	0.126	33.01	-11.99
	16-QAM	2555.0	H	106	319	4.17	1 / 214	15.86	20.04	0.101	33.01	-12.98
	$\pi/2$ BPSK	2512.5	H	111	321	4.18	1 / 108	17.31	21.49	0.141	33.01	-11.52
	$\pi/2$ BPSK	2535.0	H	117	317	4.19	1 / 108	17.11	21.30	0.135	33.01	-11.71
	$\pi/2$ BPSK	2557.5	H	106	319	4.16	1 / 108	16.09	20.24	0.106	33.01	-12.77
30 MHz	QPSK	2512.5	H	111	321	4.18	1 / 108	17.03	21.21	0.132	33.01	-11.80
	QPSK	2535.0	H	117	317	4.19	1 / 108	16.78	20.97	0.125	33.01	-12.05
	QPSK	2557.5	H	106	319	4.16	1 / 108	16.20	20.36	0.109	33.01	-12.65
	16-QAM	2535.0	H	117	317	4.19	1 / 108	16.31	20.50	0.112	33.01	-12.51
	$\pi/2$ BPSK	2510.0	H	111	321	4.18	1 / 108	17.23	21.40	0.138	33.01	-11.61
	$\pi/2$ BPSK	2535.0	H	117	317	4.19	1 / 1	16.97	21.16	0.131	33.01	-11.85
	$\pi/2$ BPSK	2560.0	H	106	319	4.15	1 / 214	16.02	20.17	0.104	33.01	-12.84
	QPSK	2510.0	H	111	321	4.18	1 / 108	16.80	20.97	0.125	33.01	-12.04
	QPSK	2535.0	H	117	317	4.19	1 / 1	16.71	20.90	0.123	33.01	-12.11
	QPSK	2560.0	H	106	319	4.15	1 / 214	16.10	20.25	0.106	33.01	-12.77
	16-QAM	2535.0	H	117	317	4.19	1 / 1	16.36	20.55	0.113	33.01	-12.46
	$\pi/2$ BPSK	2507.5	H	111	321	4.17	1 / 1	17.33	21.51	0.142	33.01	-11.50
25 MHz	$\pi/2$ BPSK	2535.0	H	117	317	4.19	1 / 214	17.02	21.20	0.132	33.01	-11.81
	$\pi/2$ BPSK	2562.5	H	106	319	4.14	1 / 214	16.04	20.18	0.104	33.01	-12.83
	QPSK	2507.5	H	111	321	4.17	1 / 1	16.95	21.12	0.129	33.01	-11.89
	QPSK	2535.0	H	117	317	4.19	1 / 214	16.80	20.98	0.125	33.01	-12.03
	QPSK	2562.5	H	106	319	4.14	1 / 214	15.96	20.09	0.102	33.01	-12.92
	16-QAM	2535.0	H	117	317	4.19	1 / 214	16.15	20.33	0.108	33.01	-12.68
	$\pi/2$ BPSK	2505.0	H	111	321	4.17	1 / 1	17.22	21.39	0.138	33.01	-11.62
	$\pi/2$ BPSK	2535.0	H	117	317	4.19	1 / 108	17.04	21.22	0.132	33.01	-11.79
	$\pi/2$ BPSK	2565.0	H	106	319	4.13	1 / 1	16.06	20.18	0.104	33.01	-12.83
	QPSK	2505.0	H	111	321	4.17	1 / 214	16.83	21.00	0.126	33.01	-12.01
	QPSK	2535.0	H	117	317	4.19	1 / 108	16.87	21.06	0.128	33.01	-11.95
	QPSK	2565.0	H	106	319	4.13	1 / 1	16.15	20.27	0.106	33.01	-12.74
20 MHz	16-QAM	2505.0	H	111	321	4.17	1 / 214	16.00	20.18	0.104	33.01	-12.83
	$\pi/2$ BPSK	2502.5	H	111	321	4.17	1 / 1	17.22	21.39	0.138	33.01	-11.62
	$\pi/2$ BPSK	2535.0	H	117	317	4.19	1 / 214	16.98	21.17	0.131	33.01	-11.84
	$\pi/2$ BPSK	2567.5	H	106	319	4.11	1 / 108	16.22	20.33	0.108	33.01	-12.68
	QPSK	2502.5	H	111	321	4.17	1 / 1	16.87	21.04	0.127	33.01	-11.97
	QPSK	2535.0	H	117	317	4.19	1 / 214	16.84	21.02	0.127	33.01	-11.99
	QPSK	2567.5	H	106	319	4.11	1 / 108	16.33	20.44	0.111	33.01	-12.57
	16-QAM	2535.0	H	117	317	4.19	1 / 214	16.45	20.63	0.116	33.01	-12.38
	QPSK (CP-OFDM)	2520.0	H	111	321	4.18	1 / 108	15.66	19.84	0.096	33.01	-13.17
	QPSK (WCP)	2520.0	H	106	326	4.18	1 / 108	16.37	20.55	0.113	33.01	-12.46

Table 7-322. EIRP Data (NR Band n7) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-05.A3L	Test Dates: 9/6 – 11/7/2023	EUT Type: Portable Handset	Page 222 of 283

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	2506.0	H	157	316	4.17	1 / 50	20.43	24.60	0.289	33.01	-8.41
	QPSK	2593.0	H	146	315	4.00	1 / 0	20.09	24.09	0.256	33.01	-8.92
	QPSK	2680.0	H	161	308	4.50	1 / 50	20.09	24.59	0.288	33.01	-8.42
	16-QAM	2506.0	H	157	316	4.17	1 / 50	19.44	23.61	0.230	33.01	-9.40
15 MHz	QPSK	2503.5	H	157	316	4.17	1 / 74	20.46	24.63	0.290	33.01	-8.38
	QPSK	2593.0	H	146	315	4.00	1 / 37	19.98	23.98	0.250	33.01	-9.03
	QPSK	2682.5	H	161	308	4.51	1 / 74	18.84	23.35	0.217	33.01	-9.66
	16-QAM	2503.5	H	157	316	4.17	1 / 74	18.59	22.77	0.189	33.01	-10.24
10 MHz	QPSK	2501.0	H	157	316	4.17	1 / 25	18.57	22.74	0.188	33.01	-10.27
	QPSK	2593.0	H	146	315	4.00	1 / 25	19.98	23.98	0.250	33.01	-9.03
	QPSK	2685.0	H	161	308	4.52	1 / 49	19.80	24.31	0.270	33.01	-8.70
	16-QAM	2593.0	H	146	315	4.00	1 / 25	18.18	22.18	0.165	33.01	-10.83
5 MHz	QPSK	2498.5	H	157	316	4.16	1 / 24	19.60	23.77	0.238	33.01	-9.24
	QPSK	2593.0	H	146	315	4.00	1 / 24	20.59	24.59	0.288	33.01	-8.42
	QPSK	2687.5	H	161	308	4.53	1 / 24	19.59	24.11	0.258	33.01	-8.90
	16-QAM	2593.0	H	146	315	4.00	1 / 24	19.98	23.98	0.250	33.01	-9.03
20 MHz	WCP	2506.0	H	156	308	4.17	1 / 50	20.36	24.53	0.284	33.01	-8.48

Table 7-323. EIRP Data (LTE Band 41(PC2)) – Ant2

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	2506.0	H	120	321	4.17	1 / 0	19.44	23.61	0.230	33.01	-9.40
	QPSK	2593.0	H	145	315	4.00	1 / 0	19.07	23.07	0.203	33.01	-9.94
	QPSK	2680.0	H	131	310	4.50	1 / 0	19.01	23.51	0.224	33.01	-9.50
	16-QAM	2506.0	H	120	321	4.17	1 / 0	18.21	22.38	0.173	33.01	-10.63
15 MHz	QPSK	2503.5	H	120	321	4.17	1 / 74	19.75	23.92	0.247	33.01	-9.09
	QPSK	2593.0	H	145	315	4.00	1 / 37	18.82	22.82	0.192	33.01	-10.19
	QPSK	2682.5	H	131	310	4.51	1 / 74	18.96	23.47	0.223	33.01	-9.54
	16-QAM	2682.5	H	131	310	4.51	1 / 74	17.94	22.45	0.176	33.01	-10.56
10 MHz	QPSK	2501.0	H	120	321	4.17	1 / 49	19.53	23.70	0.235	33.01	-9.31
	QPSK	2593.0	H	145	315	4.00	1 / 49	18.76	22.76	0.189	33.01	-10.25
	QPSK	2685.0	H	131	310	4.52	1 / 49	18.93	23.45	0.221	33.01	-9.56
	16-QAM	2685.0	H	131	310	4.52	1 / 49	17.67	22.18	0.165	33.01	-10.83
5 MHz	QPSK	2498.5	H	120	321	4.16	1 / 24	18.91	23.07	0.203	33.01	-9.94
	QPSK	2593.0	H	145	315	4.00	1 / 24	19.34	23.34	0.216	33.01	-9.67
	QPSK	2687.5	H	131	310	4.53	1 / 24	18.57	23.10	0.204	33.01	-9.91
	16-QAM	2687.5	H	131	310	4.53	1 / 24	18.52	23.05	0.202	33.01	-9.96
20 MHz	WCP	2506.0	H	153	303	4.17	1 / 0	18.30	22.47	0.177	33.01	-10.54

Table 7-324. EIRP Data (LTE Band 41(PC3)/38) – Ant2

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-05.A3L	Test Dates: 9/6 – 11/7/2023	EUT Type: Portable Handset	Page 223 of 283

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]
100 MHz	11/2 BPSK	2546.01	H	109	314	4.19	1 / 1	20.98	25.17	0.329	33.01	-7.84
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 136	20.21	24.21	0.264	33.01	-8.80
	11/2 BPSK	2640.00	H	100	313	4.31	1 / 1	19.30	23.61	0.230	33.01	-9.40
	QPSK	2546.01	H	109	314	4.19	1 / 1	21.15	25.34	0.342	33.01	-7.67
	QPSK	2592.99	H	109	312	4.00	1 / 136	20.37	24.37	0.273	33.01	-8.64
	QPSK	2640.00	H	100	313	4.31	1 / 1	19.37	23.68	0.233	33.01	-9.33
90 MHz	16-QAM	2546.01	H	109	314	4.19	1 / 1	19.90	24.09	0.257	33.01	-8.92
	11/2 BPSK	2541.00	H	109	314	4.19	1 / 122	21.33	25.52	0.357	33.01	-7.49
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 243	20.21	24.21	0.264	33.01	-8.80
	11/2 BPSK	2644.98	H	100	313	4.36	1 / 122	19.45	23.80	0.240	33.01	-9.21
	QPSK	2541.00	H	109	314	4.19	1 / 122	21.20	25.39	0.346	33.01	-7.62
	QPSK	2592.99	H	109	312	4.00	1 / 243	20.36	24.36	0.273	33.01	-8.65
80 MHz	QPSK	2644.98	H	100	313	4.36	1 / 122	19.46	23.81	0.241	33.01	-9.20
	16-QAM	2541.00	H	109	314	4.19	1 / 122	19.93	24.12	0.258	33.01	-8.89
	11/2 BPSK	2536.02	H	109	314	4.19	1 / 215	21.22	25.41	0.348	33.01	-7.60
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 215	20.23	24.23	0.265	33.01	-8.78
	11/2 BPSK	2649.99	H	100	313	4.40	1 / 108	19.18	23.58	0.228	33.01	-9.43
	QPSK	2536.02	H	109	314	4.19	1 / 215	21.23	25.42	0.348	33.01	-7.59
70 MHz	QPSK	2592.99	H	109	312	4.00	1 / 215	20.33	24.33	0.271	33.01	-8.68
	QPSK	2649.99	H	100	313	4.40	1 / 108	19.30	23.70	0.235	33.01	-9.31
	16-QAM	2536.02	H	109	314	4.19	1 / 215	20.04	24.23	0.265	33.01	-8.78
	11/2 BPSK	2531.01	H	109	314	4.18	1 / 187	21.37	25.55	0.359	33.01	-7.46
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 187	20.23	24.23	0.265	33.01	-8.78
	11/2 BPSK	2655.00	H	100	313	4.42	1 / 187	19.08	23.49	0.224	33.01	-9.52
60 MHz	QPSK	2531.01	H	109	314	4.18	1 / 187	21.28	25.46	0.352	33.01	-7.55
	QPSK	2592.99	H	109	312	4.00	1 / 187	20.29	24.29	0.268	33.01	-8.72
	QPSK	2655.00	H	100	313	4.42	1 / 187	19.16	23.57	0.228	33.01	-9.44
	16-QAM	2531.01	H	109	314	4.18	1 / 187	20.09	24.27	0.267	33.01	-8.74
	11/2 BPSK	2526.00	H	109	314	4.18	1 / 160	21.15	25.33	0.341	33.01	-7.68
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 160	20.10	24.10	0.257	33.01	-8.91
50 MHz	11/2 BPSK	2659.98	H	100	313	4.43	1 / 1	19.08	23.51	0.225	33.01	-9.50
	QPSK	2526.00	H	109	314	4.18	1 / 160	21.12	25.30	0.339	33.01	-7.71
	QPSK	2592.99	H	109	312	4.00	1 / 160	20.25	24.25	0.266	33.01	-8.76
	QPSK	2659.98	H	100	313	4.43	1 / 1	19.09	23.52	0.225	33.01	-9.49
	16-QAM	2526.00	H	109	314	4.18	1 / 160	19.92	24.10	0.257	33.01	-8.91
	11/2 BPSK	2521.02	H	109	314	4.18	1 / 66	21.20	25.38	0.345	33.01	-7.63
40 MHz	11/2 BPSK	2592.99	H	109	312	4.00	1 / 131	20.29	24.29	0.268	33.01	-8.72
	11/2 BPSK	2664.99	H	100	313	4.45	1 / 1	19.29	23.74	0.237	33.01	-9.27
	QPSK	2521.02	H	109	314	4.18	1 / 66	21.11	25.29	0.338	33.01	-7.72
	QPSK	2592.99	H	109	312	4.00	1 / 131	20.43	24.43	0.277	33.01	-8.58
	QPSK	2664.99	H	100	313	4.45	1 / 1	19.32	23.77	0.238	33.01	-9.24
	16-QAM	2521.02	H	109	314	4.18	1 / 66	19.91	24.09	0.257	33.01	-8.92
30 MHz	11/2 BPSK	2516.01	H	109	314	4.18	1 / 104	21.08	25.26	0.336	33.01	-7.75
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 53	20.07	24.07	0.255	33.01	-8.94
	11/2 BPSK	2670.00	H	100	313	4.47	1 / 1	18.95	23.41	0.219	33.01	-9.60
	QPSK	2516.01	H	109	314	4.18	1 / 104	21.04	25.22	0.333	33.01	-7.79
	QPSK	2592.99	H	109	312	4.00	1 / 53	20.22	24.22	0.264	33.01	-8.79
	QPSK	2670.00	H	100	313	4.47	1 / 1	19.02	23.48	0.223	33.01	-9.53
25 MHz	16-QAM	2516.01	H	109	314	4.18	1 / 104	19.80	23.98	0.250	33.01	-9.03
	11/2 BPSK	2511.00	H	109	314	4.18	1 / 76	21.22	25.39	0.346	33.01	-7.62
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 76	20.16	24.16	0.261	33.01	-8.85
	11/2 BPSK	2674.98	H	100	313	4.48	1 / 1	19.19	23.67	0.233	33.01	-9.34
	QPSK	2511.00	H	109	314	4.18	1 / 76	21.18	25.35	0.343	33.01	-7.66
	QPSK	2592.99	H	109	312	4.00	1 / 76	20.32	24.32	0.270	33.01	-8.69
20 MHz	QPSK	2674.98	H	100	313	4.48	1 / 1	19.28	23.76	0.238	33.01	-9.25
	16-QAM	2674.98	H	100	313	4.48	1 / 1	18.60	23.08	0.203	33.01	-9.93
	11/2 BPSK	2508.50	H	109	314	4.17	1 / 1	21.52	25.69	0.371	33.01	-7.32
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 1	20.83	24.83	0.304	33.01	-8.18
	11/2 BPSK	2677.48	H	100	313	4.50	1 / 1	19.01	23.51	0.225	33.01	-9.50
	QPSK	2508.50	H	109	314	4.17	1 / 1	21.42	25.59	0.362	33.01	-7.42
15 MHz	QPSK	2592.99	H	109	312	4.00	1 / 1	20.90	24.90	0.309	33.01	-8.11
	QPSK	2677.48	H	100	313	4.50	1 / 1	19.00	23.50	0.224	33.01	-9.51
	16-QAM	2592.99	H	109	312	4.00	1 / 1	20.09	24.09	0.256	33.01	-8.92
	11/2 BPSK	2506.02	H	109	314	4.17	1 / 76	20.84	25.01	0.317	33.01	-8.00
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 39	20.00	24.00	0.251	33.01	-9.01
	11/2 BPSK	2679.99	H	100	313	4.50	1 / 1	18.87	23.37	0.217	33.01	-9.64
10 MHz	QPSK	2506.02	H	109	314	4.17	1 / 76	20.76	24.93	0.311	33.01	-8.08
	QPSK	2592.99	H	109	312	4.00	1 / 39	20.14	24.14	0.259	33.01	-8.87
	QPSK	2679.99	H	100	313	4.50	1 / 1	18.98	23.48	0.223	33.01	-9.53
	16-QAM	2592.99	H	109	312	4.00	1 / 39	19.57	23.57	0.227	33.01	-9.44
	11/2 BPSK	2503.50	H	109	314	4.17	1 / 76	20.98	25.15	0.327	33.01	-7.86
	11/2 BPSK	2592.99	H	109	312	4.00	1 / 1	19.99	23.99	0.251	33.01	-9.02
100 MHz	11/2 BPSK	2682.48	H	100	313	4.50	1 / 1	18.96	23.46	0.222	33.01	-9.55
	QPSK	2503.50	H	109	314	4.17	1 / 76	20.96	25.13	0.326	33.01	-7.88
	QPSK	2592.99	H	109	312	4.00	1 / 1	20.16	24.16	0.261	33.01	-8.85
	QPSK	2682.48	H	100	313	4.50	1 / 1	18.98	23.48	0.223	33.01	-9.53
	16-QAM	2592.99	H	109	312	4.00	1 / 1	19.63	23.63	0.231	33.01	-9.38
	11/2 BPSK	2501.01	H	109	314	4.17	1 / 76	20.86	25.03	0.319	33.01	-7.98
100 MHz	11/2 BPSK	2592.99	H	109	312	4.00	1 / 76	20.05	24.05	0.254	33.01	-8.96
	11/2 BPSK	2685.00	H	100	313	4.50	1 / 1	18.75	23.25	0.211	33.01	-9.76
	QPSK	2501.01	H	109	314	4.17	1 / 76	20.82	24.99	0.316	33.01	-8.02
	QPSK	2592.99	H	109	312	4.00	1 / 76	20.22	24.22	0.264	33.01	-8.79
	QPSK	2685.00	H	100	313	4.50	1 / 1	18.79	23.29	0.213	33.01	-9.72
	16-QAM	2592.99	H	109	312	4.00	1 / 76	19.71	23.71	0.235	33.01	-9.30
100 MHz	QPSK (CP-OFDM)	2546.01	H	109	314	4.19	1 / 1	18.96	23.15	0.207	33.01	-9.86
	QPSK (WCP)	2546.01	H	152	311	4.19	1 / 1	19.88	24.07	0.255	33.01	-8.94

Table 7-325. EIRP Data (NR Band n41) – Ant1

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-05.A3L	Test Dates: 9/6 – 11/7/2023	EUT Type: Portable Handset	Page 224 of 283

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]
100 MHz	$\pi/2$ BPSK	2546.01	H	100	257	4.19	1 / 136	13.77	17.96	0.063	33.01	-15.05
	$\pi/2$ BPSK	2592.99	H	101	252	4.00	1 / 271	17.18	21.18	0.131	33.01	-11.83
	$\pi/2$ BPSK	2640.00	H	100	250	4.31	1 / 271	17.76	22.07	0.161	33.01	-10.94
	QPSK	2546.01	H	100	257	4.19	1 / 136	13.76	17.95	0.062	33.01	-15.06
	QPSK	2592.99	H	101	252	4.00	1 / 271	17.20	21.20	0.132	33.01	-11.81
	QPSK	2640.00	H	100	250	4.31	1 / 271	17.71	22.02	0.159	33.01	-10.99
	16-QAM	2640.00	H	100	250	4.31	1 / 271	17.61	21.92	0.156	33.01	-11.09
100 MHz	QPSK (CP-OFDM)	2640.0	H	101	252	4.31	1 / 271	16.76	21.07	0.128	33.01	-11.94

Table 7-326. EIRP Data (NR Band n41) – Ant2

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]
100 MHz	$\pi/2$ BPSK	2546.01	H	127	224	4.19	1 / 1	12.05	16.24	0.042	33.01	-16.77
	$\pi/2$ BPSK	2592.99	H	131	227	4.00	1 / 1	11.56	15.56	0.036	33.01	-17.45
	$\pi/2$ BPSK	2640.00	H	117	224	4.31	1 / 136	10.45	14.76	0.030	33.01	-18.25
	QPSK	2546.01	H	127	224	4.19	1 / 1	12.04	16.23	0.042	33.01	-16.78
	QPSK	2592.99	H	131	227	4.00	1 / 1	11.51	15.51	0.036	33.01	-17.50
	QPSK	2640.00	H	117	224	4.31	1 / 136	10.36	14.67	0.029	33.01	-18.34
	16-QAM	2546.01	H	127	224	4.19	1 / 1	11.24	15.43	0.035	33.01	-17.58
100 MHz	QPSK (CP-OFDM)	2546.0	H	127	224	4.19	1 / 1	10.39	14.58	0.029	33.01	-18.43

Table 7-327. EIRP Data (NR Band n41) – Ant3

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]
100 MHz	$\pi/2$ BPSK	2546.01	H	126	46	4.19	1 / 136	9.38	13.57	0.023	33.01	-19.44
	$\pi/2$ BPSK	2592.99	H	104	46	4.00	1 / 271	11.63	15.63	0.037	33.01	-17.38
	$\pi/2$ BPSK	2640.00	H	108	44	4.31	1 / 271	12.04	16.35	0.043	33.01	-16.66
	QPSK	2546.01	H	126	46	4.19	1 / 136	9.27	13.46	0.022	33.01	-19.55
	QPSK	2592.99	H	104	46	4.00	1 / 271	11.51	15.51	0.036	33.01	-17.50
	QPSK	2640.00	H	108	44	4.31	1 / 271	11.97	16.28	0.042	33.01	-16.73
	16-QAM	2640.00	H	108	44	4.31	1 / 271	11.17	15.48	0.035	33.01	-17.53
100 MHz	QPSK (CP-OFDM)	2640.0	H	106	48	4.31	1 / 271	11.37	15.68	0.037	33.01	-17.33

Table 7-328. EIRP Data (NR Band n41) – Ant4

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-05.A3L	Test Dates: 9/6 – 11/7/2023	EUT Type: Portable Handset	Page 225 of 283

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]
100 MHz	$\pi/2$ BPSK	2546.01	H	216	160	4.19	1 / 1	20.74	24.93	0.311	33.01	-8.08
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 136	20.57	24.57	0.286	33.01	-8.44
	$\pi/2$ BPSK	2640.00	H	211	163	4.31	1 / 136	20.49	24.80	0.302	33.01	-8.21
	QPSK	2546.01	H	216	160	4.19	1 / 1	20.84	25.03	0.319	33.01	-7.98
	QPSK	2592.99	H	207	162	4.00	1 / 136	20.58	24.58	0.287	33.01	-8.43
	QPSK	2640.00	H	211	163	4.31	1 / 136	20.76	25.07	0.322	33.01	-7.94
90 MHz	16-QAM	2640.00	H	211	163	4.31	1 / 136	19.71	24.02	0.253	33.01	-8.99
	$\pi/2$ BPSK	2541.00	H	216	160	4.19	1 / 122	20.79	24.98	0.315	33.01	-8.03
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 243	20.46	24.46	0.279	33.01	-8.55
	$\pi/2$ BPSK	2644.98	H	211	163	4.36	1 / 122	20.48	24.83	0.304	33.01	-8.18
	QPSK	2541.00	H	216	160	4.19	1 / 122	20.83	25.02	0.318	33.01	-7.99
	QPSK	2592.99	H	207	162	4.00	1 / 243	20.48	24.48	0.280	33.01	-8.53
80 MHz	QPSK	2644.98	H	211	163	4.36	1 / 122	20.69	25.04	0.319	33.01	-7.97
	16-QAM	2592.99	H	207	162	4.00	1 / 243	19.91	23.91	0.246	33.01	-9.10
	$\pi/2$ BPSK	2536.02	H	216	160	4.19	1 / 215	20.66	24.85	0.306	33.01	-8.16
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 215	20.45	24.45	0.279	33.01	-8.56
	$\pi/2$ BPSK	2649.99	H	211	163	4.40	1 / 1	20.12	24.52	0.283	33.01	-8.49
	QPSK	2536.02	H	216	160	4.19	1 / 215	20.74	24.93	0.311	33.01	-8.08
70 MHz	QPSK	2592.99	H	207	162	4.00	1 / 215	20.41	24.41	0.276	33.01	-8.60
	QPSK	2649.99	H	211	163	4.40	1 / 1	20.47	24.87	0.307	33.01	-8.14
	16-QAM	2592.99	H	207	162	4.00	1 / 215	19.75	23.75	0.237	33.01	-9.26
	$\pi/2$ BPSK	2531.01	H	216	160	4.18	1 / 187	20.75	24.93	0.311	33.01	-8.08
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 187	20.44	24.44	0.278	33.01	-8.57
	$\pi/2$ BPSK	2655.00	H	211	163	4.42	1 / 1	20.02	24.43	0.278	33.01	-8.58
60 MHz	QPSK	2531.01	H	216	160	4.18	1 / 187	20.82	25.00	0.316	33.01	-8.01
	QPSK	2592.99	H	207	162	4.00	1 / 187	20.43	24.43	0.277	33.01	-8.58
	QPSK	2655.00	H	211	163	4.42	1 / 1	20.34	24.75	0.299	33.01	-8.26
	16-QAM	2592.99	H	207	162	4.00	1 / 187	19.88	23.88	0.244	33.01	-9.13
	$\pi/2$ BPSK	2526.00	H	216	160	4.18	1 / 160	20.56	24.74	0.298	33.01	-8.27
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 160	20.34	24.34	0.272	33.01	-8.67
50 MHz	$\pi/2$ BPSK	2659.98	H	211	163	4.43	1 / 1	20.03	24.46	0.279	33.01	-8.55
	QPSK	2526.00	H	216	160	4.18	1 / 160	20.66	24.84	0.305	33.01	-8.17
	QPSK	2592.99	H	207	162	4.00	1 / 160	20.32	24.32	0.270	33.01	-8.69
	QPSK	2659.98	H	211	163	4.43	1 / 1	20.34	24.77	0.300	33.01	-8.24
	16-QAM	2592.99	H	207	162	4.00	1 / 160	19.78	23.78	0.239	33.01	-9.23
	$\pi/2$ BPSK	2521.02	H	216	160	4.18	1 / 131	20.89	25.07	0.321	33.01	-7.94
40 MHz	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 131	20.59	24.59	0.288	33.01	-8.42
	$\pi/2$ BPSK	2664.99	H	211	163	4.45	1 / 1	20.31	24.76	0.299	33.01	-8.25
	QPSK	2521.02	H	216	160	4.18	1 / 131	20.99	25.17	0.329	33.01	-7.84
	QPSK	2592.99	H	207	162	4.00	1 / 131	20.55	24.55	0.285	33.01	-8.46
	QPSK	2664.99	H	211	163	4.45	1 / 1	20.64	25.09	0.323	33.01	-7.92
	16-QAM	2592.99	H	207	162	4.00	1 / 131	20.00	24.00	0.251	33.01	-9.01
30 MHz	$\pi/2$ BPSK	2516.01	H	216	160	4.18	1 / 104	20.60	24.78	0.301	33.01	-8.23
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 104	20.33	24.33	0.271	33.01	-8.68
	$\pi/2$ BPSK	2670.00	H	211	163	4.47	1 / 53	20.08	24.54	0.285	33.01	-8.47
	QPSK	2516.01	H	216	160	4.18	1 / 104	20.69	24.87	0.307	33.01	-8.14
	QPSK	2592.99	H	207	162	4.00	1 / 104	20.30	24.30	0.269	33.01	-8.71
	QPSK	2670.00	H	211	163	4.47	1 / 53	20.32	24.78	0.301	33.01	-8.23
25 MHz	16-QAM	2592.99	H	207	162	4.00	1 / 104	19.79	23.79	0.239	33.01	-9.22
	$\pi/2$ BPSK	2511.00	H	216	160	4.18	1 / 76	20.72	24.89	0.308	33.01	-8.12
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 76	20.42	24.42	0.277	33.01	-8.59
	$\pi/2$ BPSK	2674.98	H	211	163	4.48	1 / 1	20.19	24.67	0.293	33.01	-8.34
	QPSK	2511.00	H	216	160	4.18	1 / 76	20.80	24.97	0.314	33.01	-8.04
	QPSK	2592.99	H	207	162	4.00	1 / 76	20.40	24.40	0.275	33.01	-8.61
20 MHz	QPSK	2674.98	H	211	163	4.48	1 / 1	20.45	24.93	0.311	33.01	-8.08
	16-QAM	2592.99	H	207	162	4.00	1 / 76	19.82	23.82	0.241	33.01	-9.19
	$\pi/2$ BPSK	2508.51	H	216	160	4.18	1 / 63	21.07	25.24	0.334	33.01	-7.77
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 1	20.54	24.54	0.284	33.01	-8.47
	$\pi/2$ BPSK	2677.50	H	211	163	4.48	1 / 1	19.85	24.33	0.271	33.01	-8.68
	QPSK	2508.51	H	216	160	4.18	1 / 63	21.10	25.27	0.337	33.01	-7.74
15 MHz	QPSK	2592.99	H	207	162	4.00	1 / 1	20.55	24.55	0.285	33.01	-8.46
	QPSK	2677.50	H	211	163	4.48	1 / 1	20.09	24.57	0.287	33.01	-8.44
	16-QAM	2508.51	H	216	160	4.18	1 / 63	19.74	23.91	0.246	33.01	-9.10
	$\pi/2$ BPSK	2506.02	H	216	160	4.17	1 / 49	20.40	24.57	0.287	33.01	-8.44
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 49	20.29	24.29	0.268	33.01	-8.72
	$\pi/2$ BPSK	2679.99	H	211	163	4.50	1 / 25	19.92	24.42	0.277	33.01	-8.59
10 MHz	QPSK	2506.02	H	216	160	4.17	1 / 49	20.47	24.64	0.291	33.01	-8.37
	QPSK	2592.99	H	207	162	4.00	1 / 49	20.24	24.24	0.265	33.01	-8.77
	QPSK	2679.99	H	211	163	4.50	1 / 25	20.16	24.66	0.293	33.01	-8.35
	16-QAM	2592.99	H	207	162	4.00	1 / 49	19.74	23.74	0.237	33.01	-9.27
	$\pi/2$ BPSK	2503.50	H	216	160	4.17	1 / 36	20.54	24.71	0.296	33.01	-8.30
	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 36	20.34	24.34	0.272	33.01	-8.67
100 MHz	$\pi/2$ BPSK	2682.48	H	211	163	4.50	1 / 1	19.96	24.46	0.279	33.01	-8.55
	QPSK	2503.50	H	216	160	4.17	1 / 36	20.61	24.78	0.301	33.01	-8.23
	QPSK	2592.99	H	207	162	4.00	1 / 36	20.36	24.36	0.273	33.01	-8.65
	QPSK	2682.48	H	211	163	4.50	1 / 1	20.19	24.69	0.295	33.01	-8.32
	16-QAM	2592.99	H	207	162	4.00	1 / 36	19.71	23.71	0.235	33.01	-9.30
	$\pi/2$ BPSK	2501.01	H	216	160	4.17	1 / 1	20.35	24.52	0.283	33.01	-8.49
100 MHz	$\pi/2$ BPSK	2592.99	H	207	162	4.00	1 / 22	20.41	24.41	0.276	33.01	-8.60
	$\pi/2$ BPSK	2685.00	H	211	163	4.50	1 / 1	19.77	24.27	0.267	33.01	-8.74
	QPSK	2501.01	H	216	160	4.17	1 / 1	20.56	24.73	0.297	33.01	-8.28
	QPSK	2592.99	H	207	162	4.00	1 / 22	20.37	24.37	0.273	33.01	-8.64
	QPSK	2685.00	H	211	163	4.50	1 / 1	20.08	24.58	0.287	33.01	-8.43
	16-QAM	2501.01	H	216	160	4.17	1 / 1	19.52	23.69	0.234	33.01	-9.32
100 MHz	QPSK (CP-OFDM)	2640.00	H	211	163	4.31	1 / 136	19.17	23.48	0.223	33.01	-9.53
	QPSK (WCP)	2640.00	H	109	304	4.31	1 / 136	19.72	24.03	0.253	33.01	-8.98

Table 7-329. EIRP Data (NR Band n41) – Ant1 – Switching

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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]
100 MHz	$\pi/2$ BPSK	2546.01	H	111	313	4.19	1 / 136	15.16	19.35	0.086	33.01	-13.66
	$\pi/2$ BPSK	2592.99	H	111	323	4.00	1 / 1	15.23	19.23	0.084	33.01	-13.78
	$\pi/2$ BPSK	2640.00	H	103	324	4.31	1 / 136	15.27	19.58	0.091	33.01	-13.43
	QPSK	2546.01	H	111	313	4.19	1 / 136	15.01	19.20	0.083	33.01	-13.81
	QPSK	2592.99	H	111	323	4.00	1 / 1	15.24	19.24	0.084	33.01	-13.77
	QPSK	2640.00	H	103	324	4.14	1 / 136	15.31	19.45	0.088	33.01	-13.56
	16-QAM	2640.00	H	103	324	4.31	1 / 136	14.38	18.69	0.074	33.01	-14.32
100 MHz	QPSK (CP-OFDM)	2640.0	H	109	314	4.31	1 / 136	13.40	17.71	0.059	33.01	-15.30

Table 7-330. EIRP Data (NR Band n41) – Ant2 – Switching

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]
100 MHz	$\pi/2$ BPSK	2546.01	H	155	46	4.19	1 / 136	13.67	17.86	0.061	33.01	-15.15
	$\pi/2$ BPSK	2592.99	H	141	48	4.00	1 / 136	14.88	18.88	0.077	33.01	-14.13
	$\pi/2$ BPSK	2640.00	H	162	50	4.31	1 / 136	14.78	19.09	0.081	33.01	-13.92
	QPSK	2546.01	H	155	46	4.19	1 / 136	13.66	17.85	0.061	33.01	-15.16
	QPSK	2592.99	H	141	48	4.00	1 / 136	14.74	18.74	0.075	33.01	-14.27
	QPSK	2640.00	H	162	50	4.31	1 / 136	14.78	19.09	0.081	33.01	-13.92
	16-QAM	2640.00	H	162	50	4.31	1 / 136	13.77	18.08	0.064	33.01	-14.93
100 MHz	QPSK (CP-OFDM)	2640.0	H	162	50	4.31	1 / 136	13.50	17.81	0.060	33.01	-15.20

Table 7-331. EIRP Data (NR Band n41) – Ant3 – Switching

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]
100 MHz	$\pi/2$ BPSK	2546.01	H	118	229	4.19	1 / 1	6.88	11.07	0.013	33.01	-21.94
	$\pi/2$ BPSK	2592.99	H	113	229	4.00	1 / 1	6.41	10.41	0.011	33.01	-22.60
	$\pi/2$ BPSK	2640.00	H	120	232	4.31	1 / 136	4.99	9.30	0.009	33.01	-23.71
	QPSK	2546.01	H	118	229	4.19	1 / 1	6.65	10.84	0.012	33.01	-22.17
	QPSK	2592.99	H	113	229	4.00	1 / 1	6.04	10.04	0.010	33.01	-22.97
	QPSK	2640.00	H	120	232	4.31	1 / 136	4.98	9.29	0.008	33.01	-23.72
	16-QAM	2546.01	H	118	229	4.19	1 / 1	5.88	10.07	0.010	33.01	-22.94
100 MHz	QPSK (CP-OFDM)	2546.0	H	118	229	4.19	1 / 1	5.22	9.41	0.009	33.01	-23.60

Table 7-332. EIRP Data (NR Band n41) – Ant4 – Switching

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7.7 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.

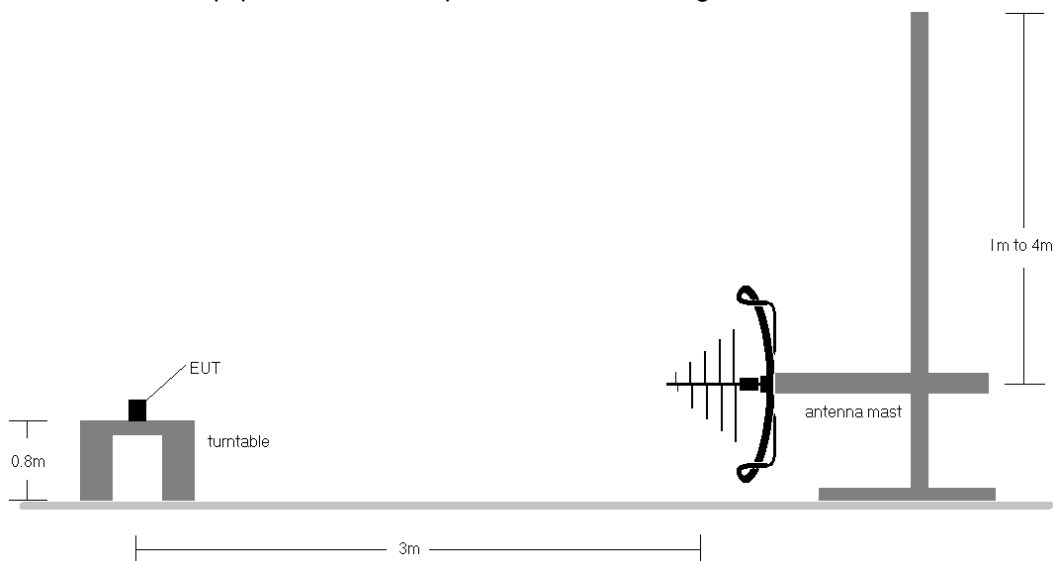


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

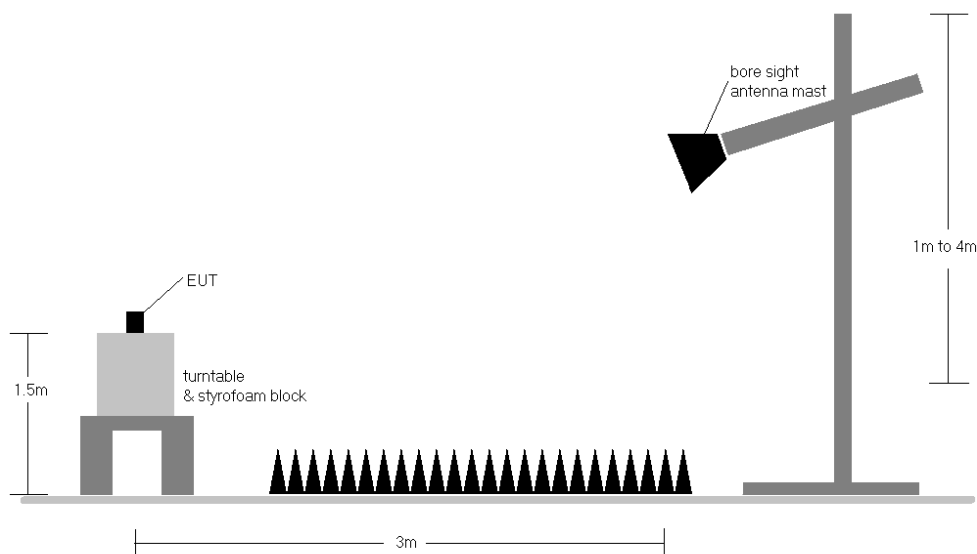


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

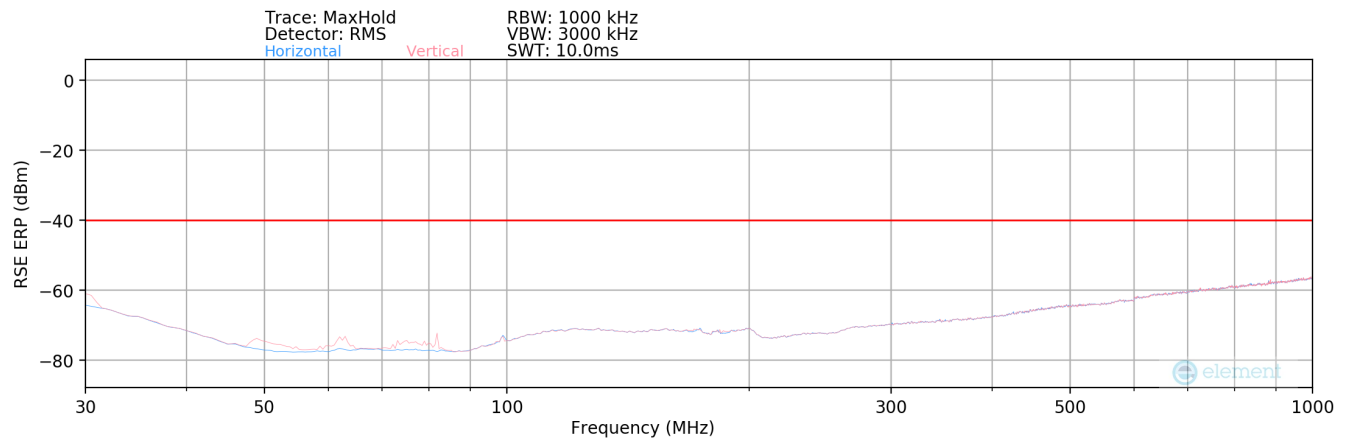
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Test Notes

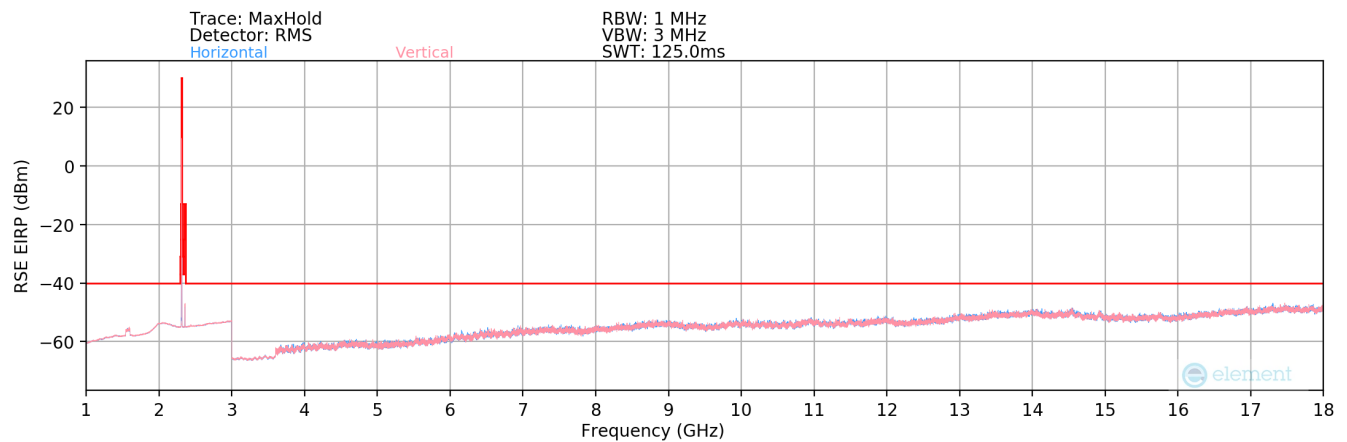
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 8) 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.
- 9) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are 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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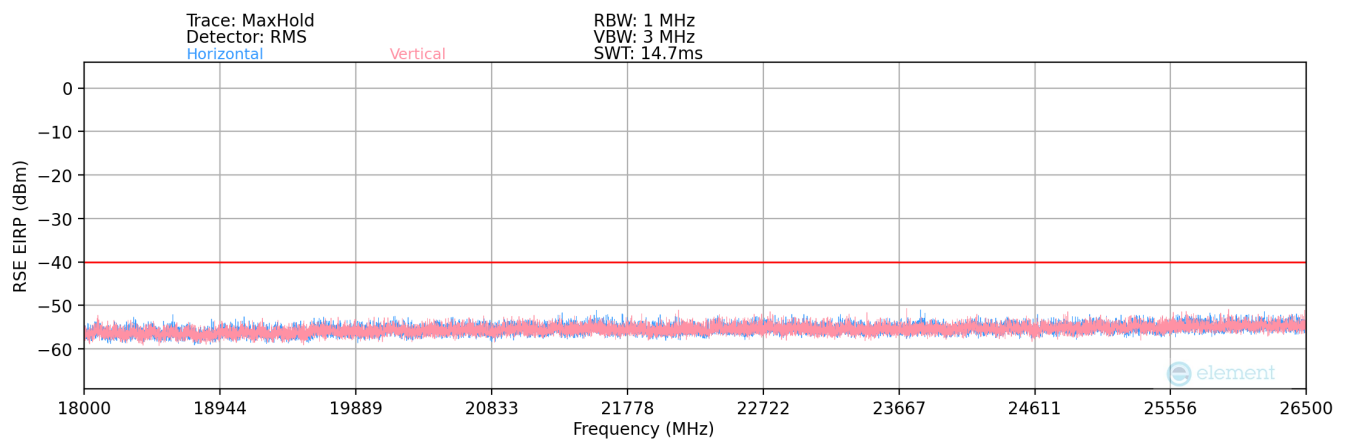
LTE Band 30 – Ant1



Plot 7-333. Radiated Spurious Plot (LTE Band 30 – Ant1)



Plot 7-334. Radiated Spurious Plot (LTE Band 30 – Ant1)



Plot 7-335. Radiated Spurious Plot (LTE Band 30 – Ant1)

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Bandwidth (MHz):	10
Frequency (MHz):	2310.0
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]
4620.00	V	118	98	-75.38	2.79	34.41	-60.84	-40.00	-20.84
6930.00	V	124	213	-77.44	8.25	37.81	-57.45	-40.00	-17.45
9240.00	V	-	-	-80.74	10.63	36.89	-58.37	-40.00	-18.37
11550.00	V	-	-	-80.70	12.70	39.00	-56.26	-40.00	-16.26
13860.00	V	-	-	-80.79	16.56	42.77	-52.48	-40.00	-12.48

Table 7-42. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant1)

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
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]
4620.00	V	116	93	-77.45	2.79	32.34	-62.91	-40.00	-22.91
6930.00	V	269	223	-78.30	8.25	36.95	-58.31	-40.00	-18.31
9240.00	V	-	-	-80.80	10.63	36.83	-58.43	-40.00	-18.43
11550.00	V	-	-	-80.80	12.70	38.90	-56.36	-40.00	-16.36
13860.00	V	-	-	-82.59	16.56	40.97	-54.28	-40.00	-14.28

Table 7-43. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant1 – With WCP)

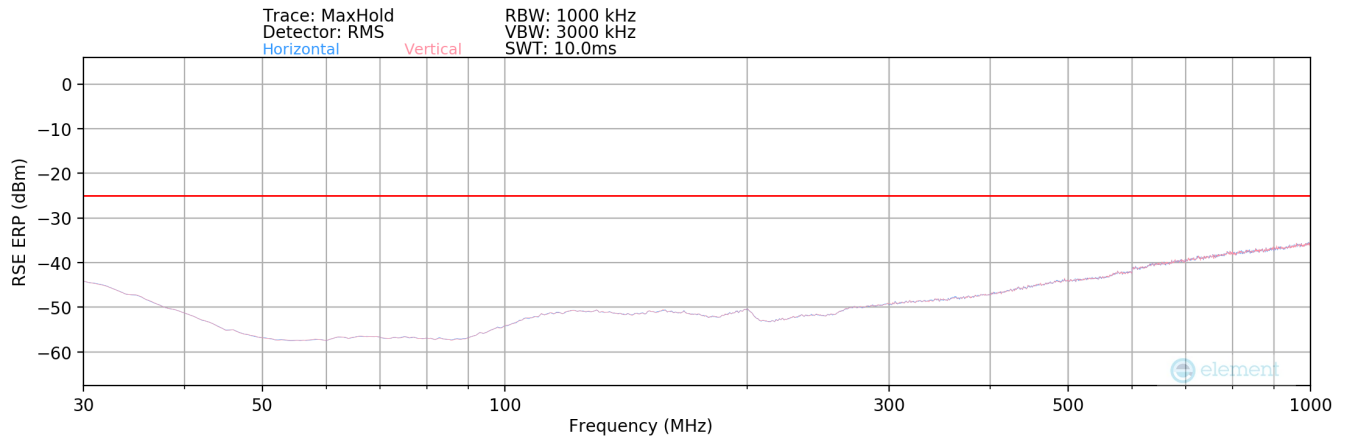
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1/25

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]
78.00	V	-	-	-105.67	14.51	15.84	-81.57	-40.00	-41.57

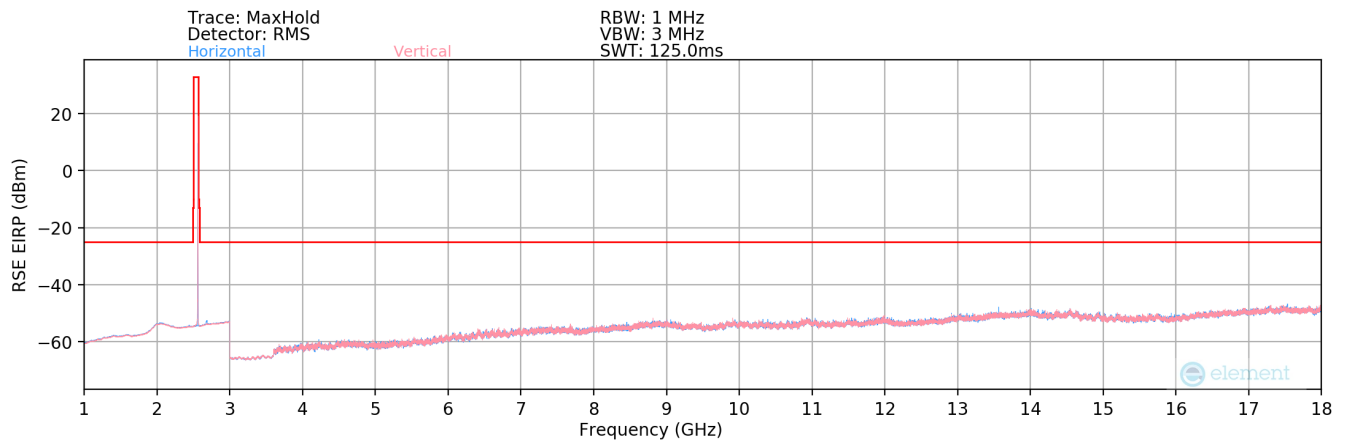
Table 7-44. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant1)

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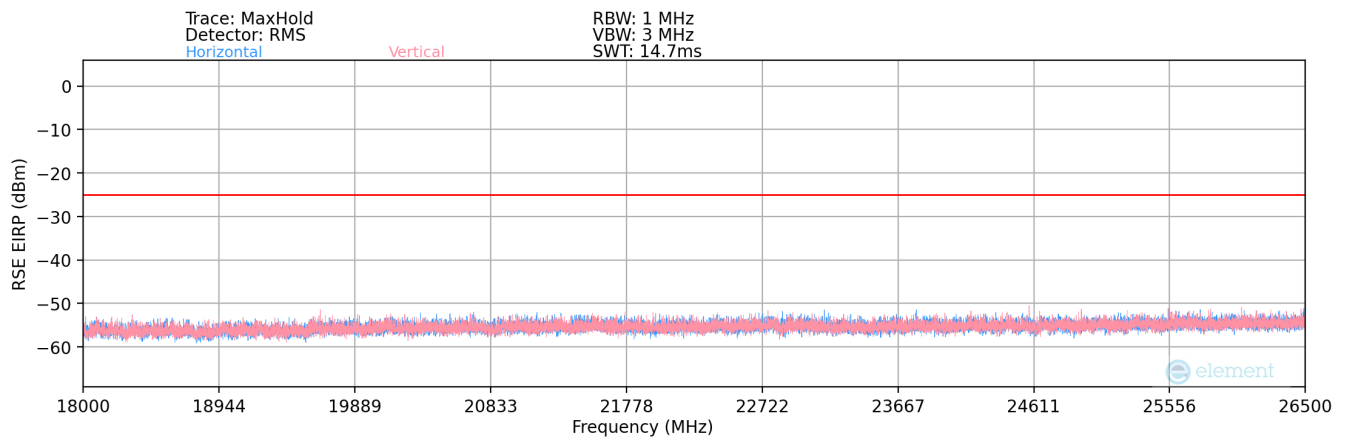
LTE Band 7 – Ant1



Plot 7-336. Radiated Spurious Plot (LTE Band 7 – Ant1)



Plot 7-337. Radiated Spurious Plot (LTE Band 7 – Ant1)



Plot 7-338. Radiated Spurious Plot (LTE Band 7 – Ant1)

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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
5020.00	H	256	315	-77.55	7.60	37.05	-58.21	-25.00	-33.21
7530.00	H	-	-	-81.25	10.96	36.71	-58.55	-25.00	-33.55
10040.00	H	-	-	-81.82	7.88	33.06	-62.20	-25.00	-37.20
12550.00	H	-	-	-83.86	18.96	42.10	-53.16	-25.00	-28.16

Table 7-45. Radiated Spurious Data (LTE Band 7 – Low Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
5070.00	H	251	7	-76.32	7.42	38.10	-57.16	-25.00	-32.16
7605.00	H	-	-	-81.01	10.93	36.92	-58.34	-25.00	-33.34
10140.00	H	-	-	-82.25	14.69	39.44	-55.82	-25.00	-30.82
12675.00	H	-	-	-84.13	18.68	41.55	-53.71	-25.00	-28.71

Table 7-46. Radiated Spurious Data (LTE Band 7 – Mid Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
5120.00	H	227	13	-76.02	-2.29	28.69	-66.57	-25.00	-41.57
7680.00	H	-	-	-80.78	10.32	36.54	-58.72	-25.00	-33.72
10240.00	H	-	-	-81.95	14.10	39.15	-56.11	-25.00	-31.11
12800.00	H	-	-	-83.93	19.17	42.24	-53.02	-25.00	-28.02

Table 7-47. Radiated Spurious Data (LTE Band 7 – High Channel – Ant1)

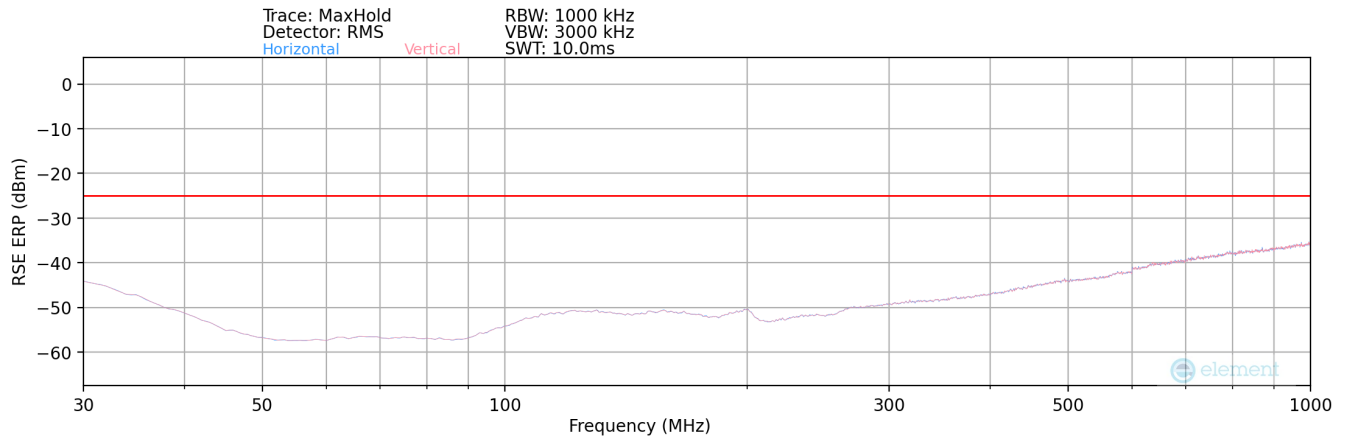
Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

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]
198.00	V	-	-	-85.23	20.08	41.85	-55.56	-25.00	-30.56

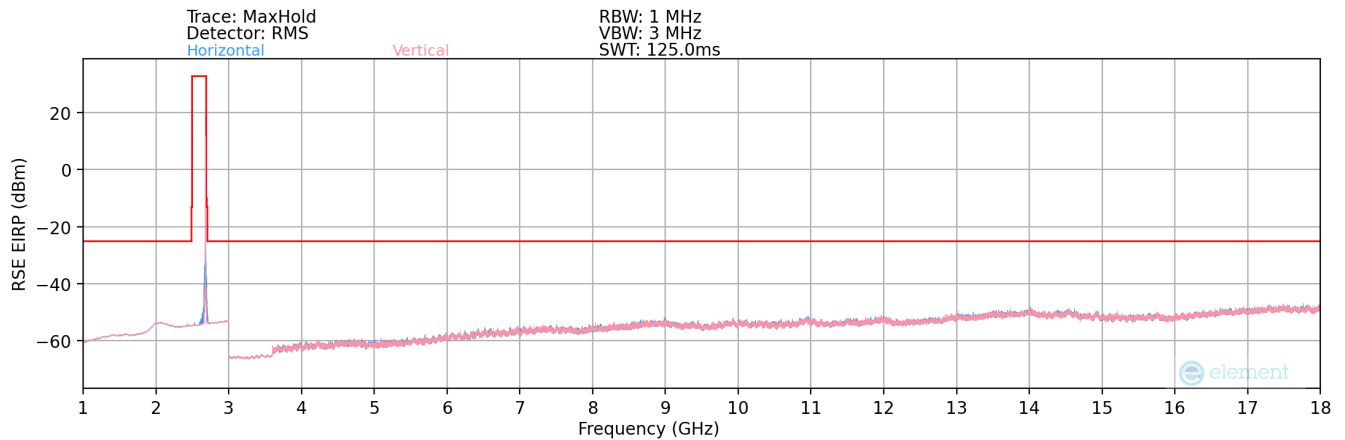
Table 7-48. Radiated Spurious Data (LTE Band 7 – Mid Channel – Ant1)

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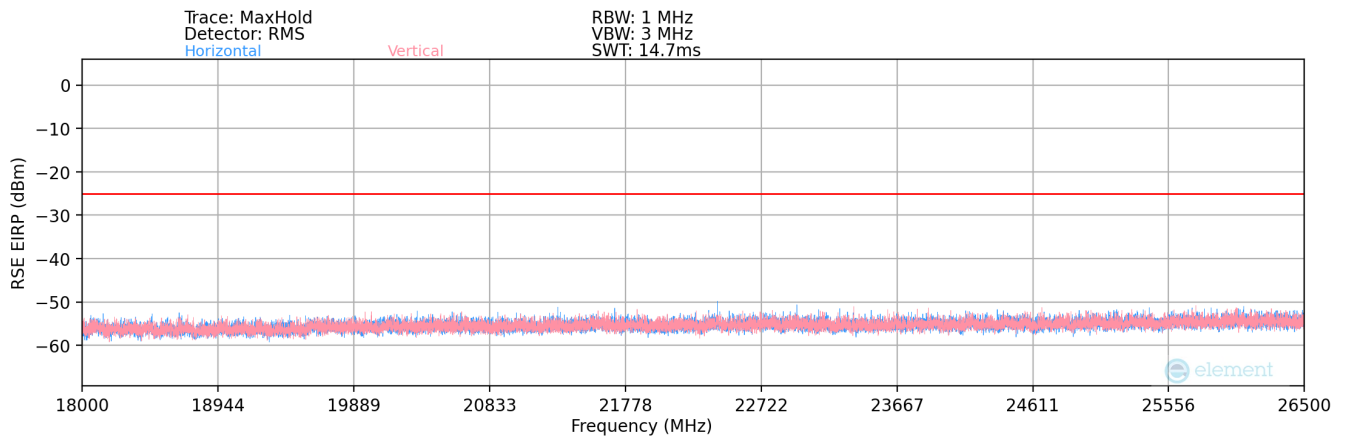
LTE Band 41(PC2) – Ant1



Plot 7-339. Radiated Spurious Plot (LTE Band 41(PC2) – Ant1)



Plot 7-340. Radiated Spurious Plot (LTE Band 41(PC2) – Ant1)



Plot 7-341. Radiated Spurious Plot (LTE Band 41(PC2) – Ant1)

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Bandwidth (MHz):	20
Frequency (MHz):	2506.0
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]
5012.00	V	348	4	-76.42	4.59	35.17	-60.09	-25.00	-35.09
7518.00	V	284	253	-74.79	10.90	43.11	-52.14	-25.00	-27.14
10024.00	V	-	-	-78.07	13.09	42.02	-53.24	-25.00	-28.24
12530.00	V	-	-	-77.77	14.79	44.02	-51.24	-25.00	-26.24
15036.00	V	-	-	-80.37	16.05	42.68	-52.58	-25.00	-27.58

Table 7-49. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
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]
5186.00	V	305	249	-74.74	4.16	36.42	-58.84	-25.00	-33.84
7779.00	V	109	312	-74.75	10.50	42.75	-52.50	-25.00	-27.50
10372.00	V	-	-	-79.81	13.69	40.88	-54.38	-25.00	-29.38
12965.00	V	-	-	-80.04	15.44	42.40	-52.85	-25.00	-27.85
15558.00	V	-	-	-79.76	15.88	43.12	-52.14	-25.00	-27.14

Table 7-50. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
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]
5360.00	V	311	244	-77.79	4.97	34.18	-61.08	-25.00	-36.08
8040.00	V	-	-	-78.06	10.88	39.82	-55.44	-25.00	-30.44
10720.00	V	-	-	-79.70	14.30	41.60	-53.66	-25.00	-28.66
13400.00	V	-	-	-79.80	16.41	43.61	-51.65	-25.00	-26.65

Table 7-51. Radiated Spurious Data (LTE Band 41(PC2) – High Channel – Ant1)

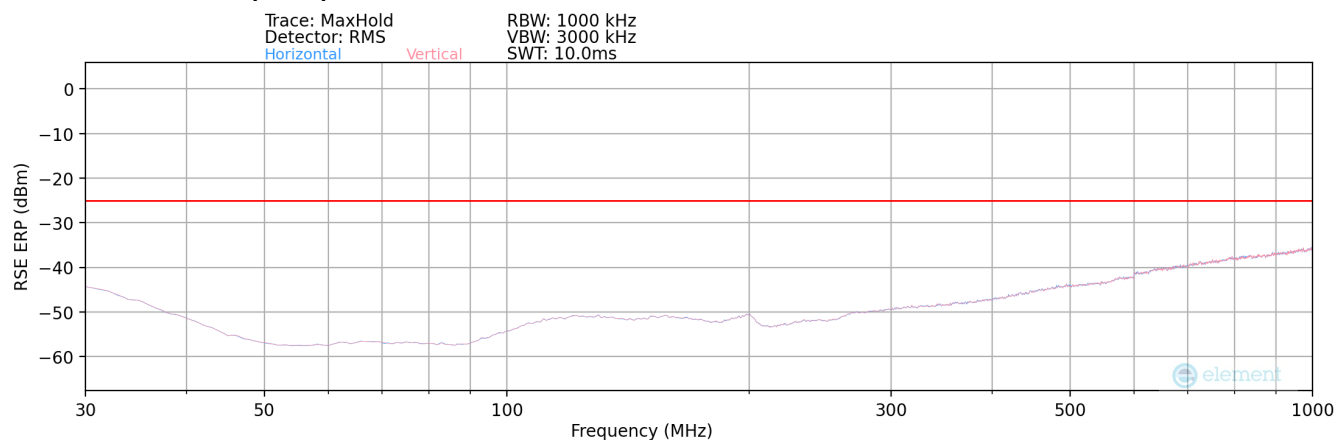
Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

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]
196.00	V	-	-	-83.39	19.73	43.34	-54.06	-25.00	-29.06

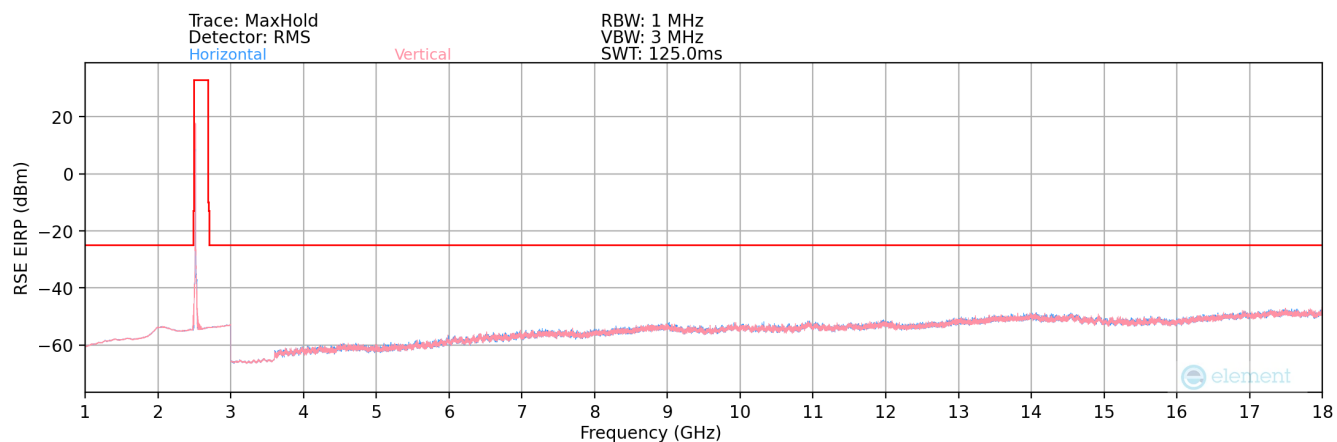
Table 7-52. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel – Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager		
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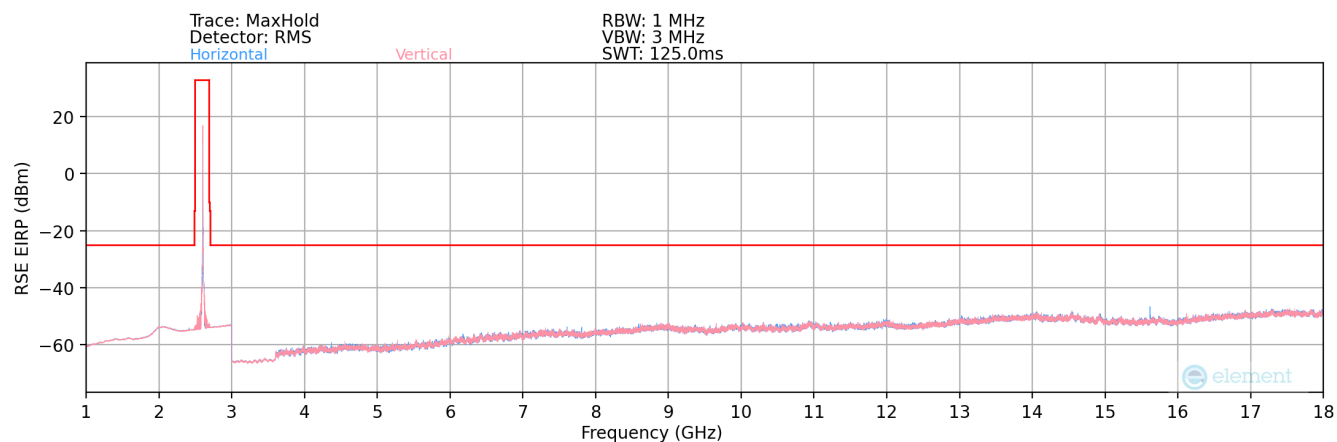
ULCA - LTE B41(PC2) – Ant1



Plot 7-342. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1) – Below 1GHz

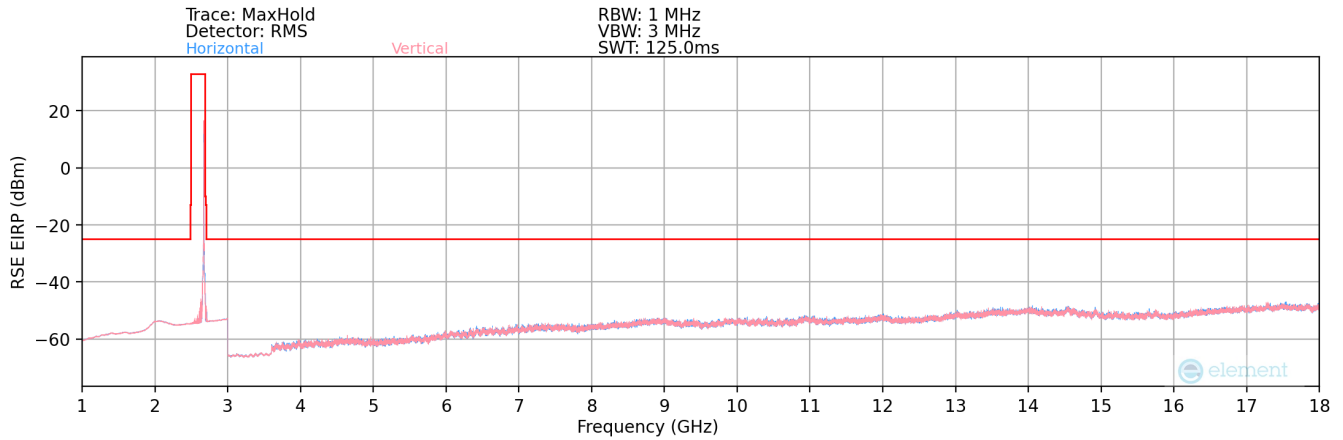


Plot 7-343. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1)– Low Channel

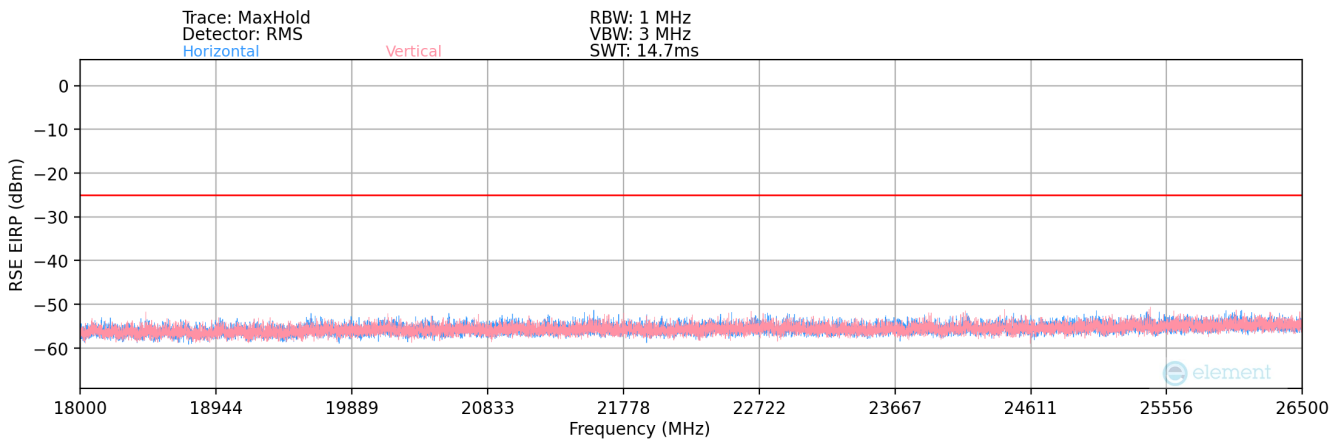


Plot 7-344. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1) – Mid Channel

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-345. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1) – High Channel



Plot 7-346. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1) – Mid Channel

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

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]
5031.80	V	271	349	-61.55	3.17	48.62	-46.64	-25.00	-21.64
7547.70	V	288	349	-61.19	8.91	54.72	-40.54	-25.00	-15.54
10063.60	V	187	21	-62.74	11.10	55.36	-39.90	-25.00	-14.90
12579.50	V	217	359	-62.72	12.91	57.19	-38.07	-25.00	-13.07
15095.40	V	220	357	-73.31	14.66	48.35	-46.91	-25.00	-21.91
17611.30	V	-	-	-77.80	16.72	45.92	-49.34	-25.00	-24.34
20127.20	V	-	-	-58.77	3.25	51.48	-53.32	-25.00	-28.32
22643.10	V	-	-	-59.16	4.10	51.94	-52.86	-25.00	-27.86

Table 7-53. Radiated Spurious Data (ULCA LTE B41(PC2) – Low Channel – Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

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]
5205.80	V	255	356	-60.29	3.49	50.20	-45.05	-25.00	-20.05
7808.70	V	282	347	-62.99	8.22	52.23	-43.03	-25.00	-18.03
10411.60	V	183	6	-62.60	11.63	56.03	-39.23	-25.00	-14.23
13014.50	V	208	5	-68.13	14.13	53.00	-42.26	-25.00	-17.26
15617.40	V	203	64	-67.97	13.98	53.01	-42.25	-25.00	-17.25
18220.30	V	-	-	-57.43	1.83	51.40	-53.40	-25.00	-28.40
20823.20	V	-	-	-57.84	3.60	52.75	-52.05	-25.00	-27.05
23426.10	V	-	-	-59.59	4.09	51.50	-53.30	-25.00	-28.30

Table 7-54. Radiated Spurious Data (ULCA LTE B41(PC2) – Mid Channel – Ant1)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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]
5340.20	V	288	6	-59.39	3.36	50.97	-44.29	-25.00	-19.29
8010.30	V	275	345	-59.45	9.00	56.55	-38.71	-25.00	-13.71
10680.40	V	203	8	-64.90	11.91	54.01	-41.25	-25.00	-16.25
13350.50	V	206	347	-68.53	14.98	53.45	-41.80	-25.00	-16.80
16020.60	V	184	358	-72.99	14.59	48.60	-46.65	-25.00	-21.65
18690.70	V	-	-	-57.20	1.98	51.78	-53.02	-25.00	-28.02
21360.80	V	-	-	-58.53	3.99	52.46	-52.34	-25.00	-27.34
24030.90	V	-	-	-59.38	4.07	51.69	-53.11	-25.00	-28.11

Table 7-55. Radiated Spurious Data (ULCA LTE B41(PC2) – High Channel – Ant1)

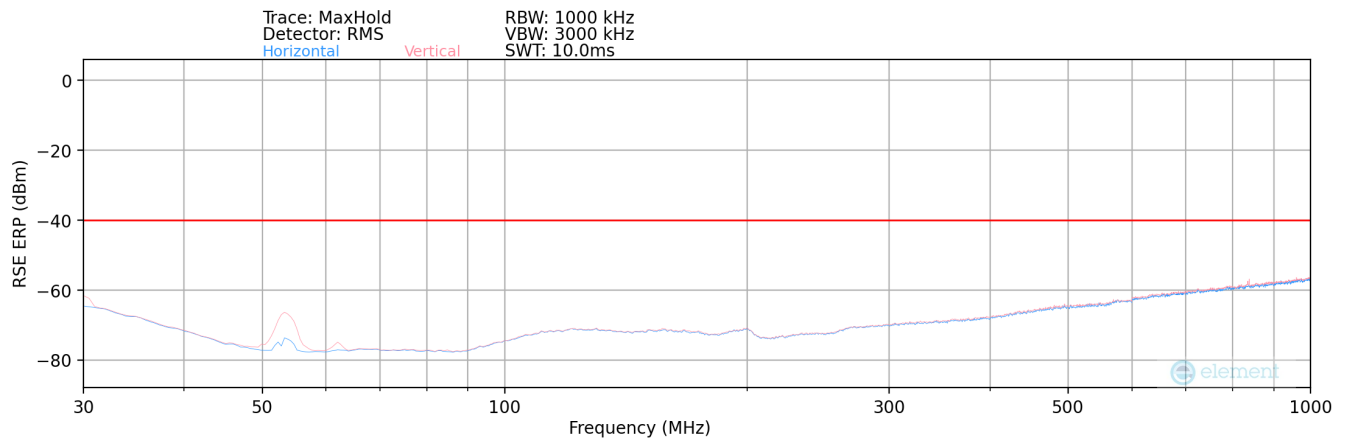
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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]
888.60	V	-	-	-97.05	31.09	41.04	-56.37	-25.00	-31.37

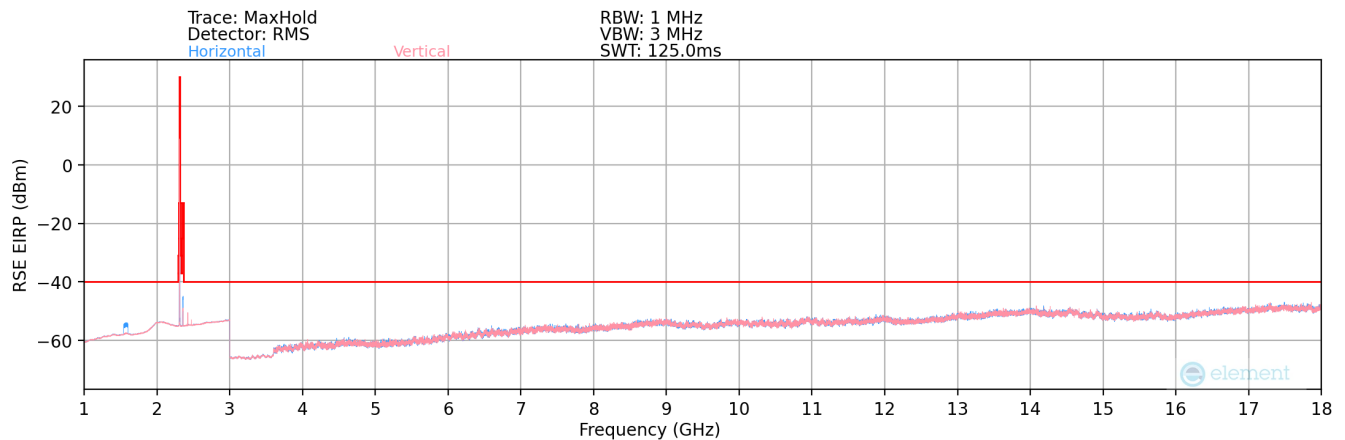
Table 7-56. Radiated Spurious Data (ULCA LTE B41(PC2) – High Channel – Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager		
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NR Band n30 – Ant1



Plot 7-347. Radiated Spurious Plot (NR Band n30 – Ant1)



Plot 7-348. Radiated Spurious Plot (NR Band n30 – Ant1)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26
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]
4620.00	V	-	-	-79.81	6.93	34.12	-61.14	-40.00	-21.14
6930.00	V	-	-	-81.42	11.27	36.85	-58.41	-40.00	-18.41
9240.00	V	-	-	-82.75	14.65	38.90	-56.36	-40.00	-16.36
11550.00	V	-	-	-83.63	18.47	41.84	-53.42	-40.00	-13.42

Table 7-57. Radiated Spurious Data (NR Band n30 – Mid Channel – Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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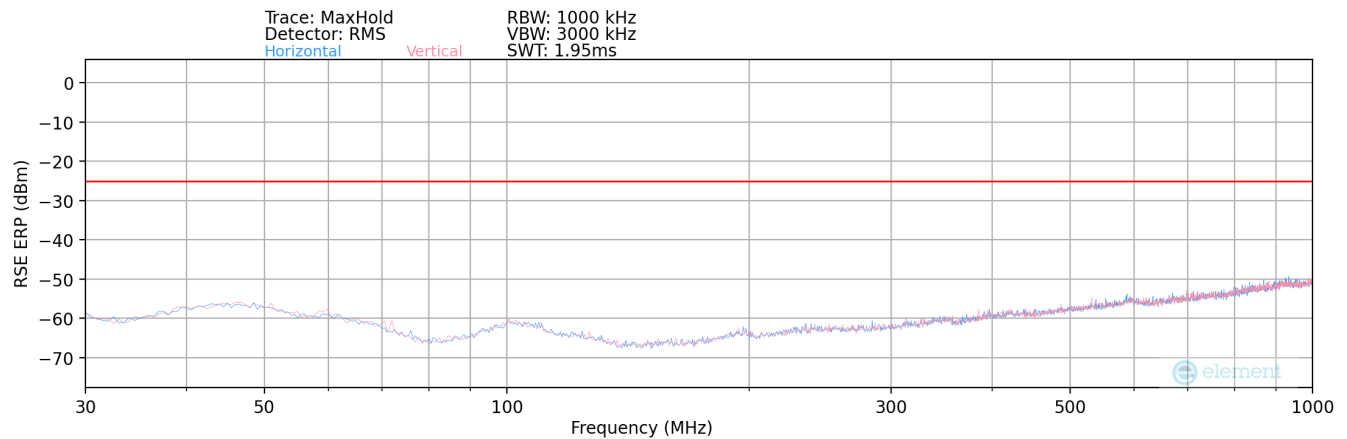
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26
Mode:	Stand Alone

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]
53.90	V	195	100	-77.45	14.11	43.66	-53.75	-40.00	-13.75

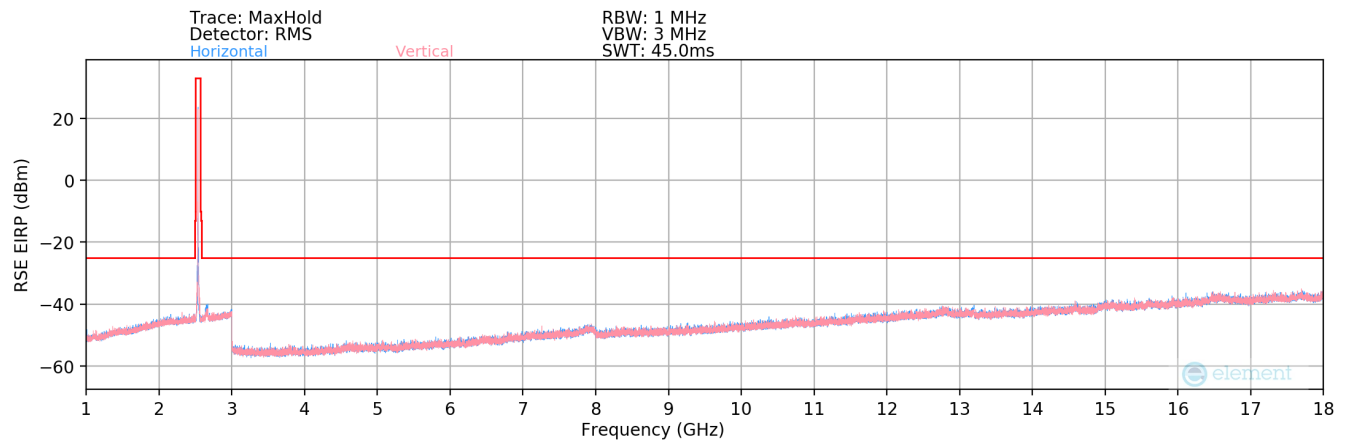
Table 7-58. Radiated Spurious Data (NR Band n30 – Mid Channel – Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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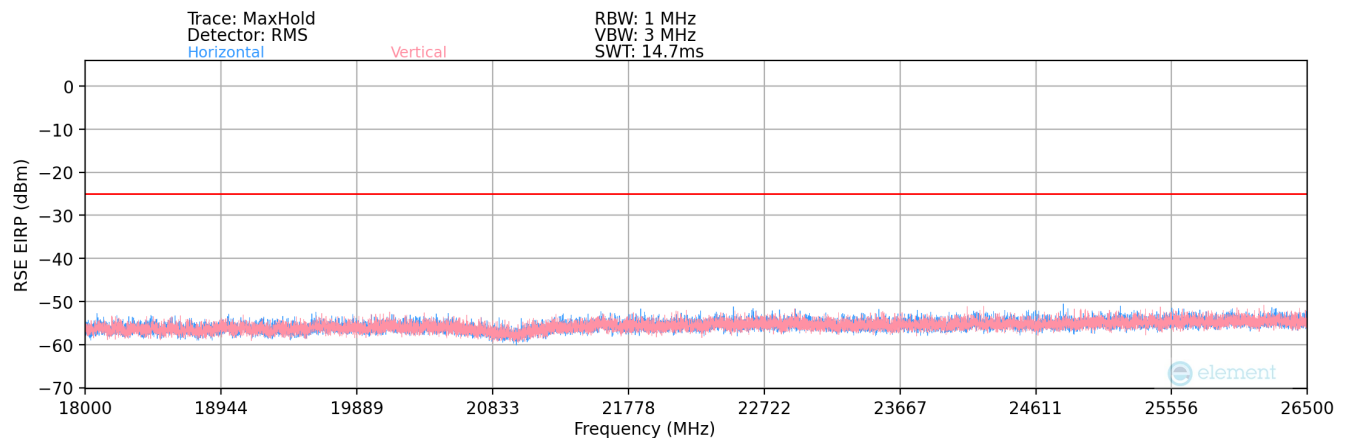
NR Band n7 – Ant1



Plot 7-349. Radiated Spurious Plot (NR Band n7 – Ant1)



Plot 7-350. Radiated Spurious Plot (NR Band n7 – Ant1)



Plot 7-351. Radiated Spurious Plot (NR Band n7 – Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	2520.0
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]
5040.00	V	-	-	-80.55	7.62	34.07	-61.19	-25.00	-36.19
7560.00	V	-	-	-81.72	12.97	38.25	-57.01	-25.00	-32.01
10080.00	V	249	45	-81.72	15.66	40.94	-54.32	-25.00	-29.32
12600.00	V	346	293	-83.10	19.79	43.69	-51.57	-25.00	-26.57
15120.00	V	-	-	-84.58	23.45	45.87	-49.39	-25.00	-24.39
17640.00	V	-	-	-85.38	27.26	48.88	-46.38	-25.00	-21.38

Table 7-59. Radiated Spurious Data (NR Band n7 – Low Channel – Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
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]
5070.00	V	-	-	-80.62	7.86	34.24	-61.01	-25.00	-36.01
7605.00	V	-	-	-81.82	12.77	37.95	-57.30	-25.00	-32.30
10140.00	V	101	20	-79.70	15.72	43.02	-52.24	-25.00	-27.24
12675.00	V	169	16	-82.95	19.65	43.70	-51.56	-25.00	-26.56
15210.00	V	-	-	-84.34	22.97	45.63	-49.63	-25.00	-24.63
17745.00	V	-	-	-85.14	27.22	49.08	-46.18	-25.00	-21.18

Table 7-60. Radiated Spurious Data (NR Band n7 – Mid Channel – Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	2550.0
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]
5100.00	V	-	-	-80.35	7.39	34.04	-61.22	-25.00	-36.22
7650.00	V	-	-	-81.32	12.47	38.15	-57.11	-25.00	-32.11
10200.00	V	104	21	-82.26	15.75	40.49	-54.77	-25.00	-29.77
12750.00	V	156	350	-83.26	20.15	43.89	-51.37	-25.00	-26.37
15300.00	V	-	-	-84.21	22.51	45.30	-49.95	-25.00	-24.95
17850.00	V	-	-	-84.96	26.73	48.77	-46.49	-25.00	-21.49

Table 7-61. Radiated Spurious Data (NR Band n7 – High Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
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]
198.00	V	-	-	-85.23	20.08	41.85	-55.56	-25.00	-30.56

Table 7-62. Radiated Spurious Data (NR Band n7 – Mid Channel – Ant1)

FCC ID: A3LSMS928U	PART 27 MEASUREMENT REPORT						Approved by: Technical Manager		
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