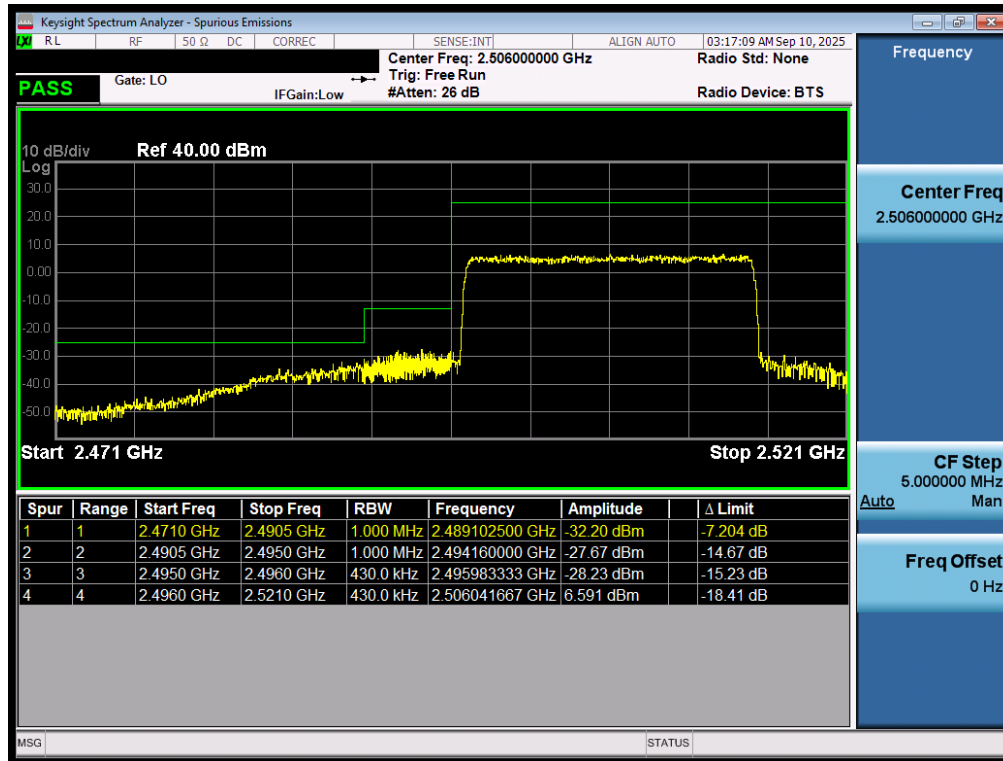
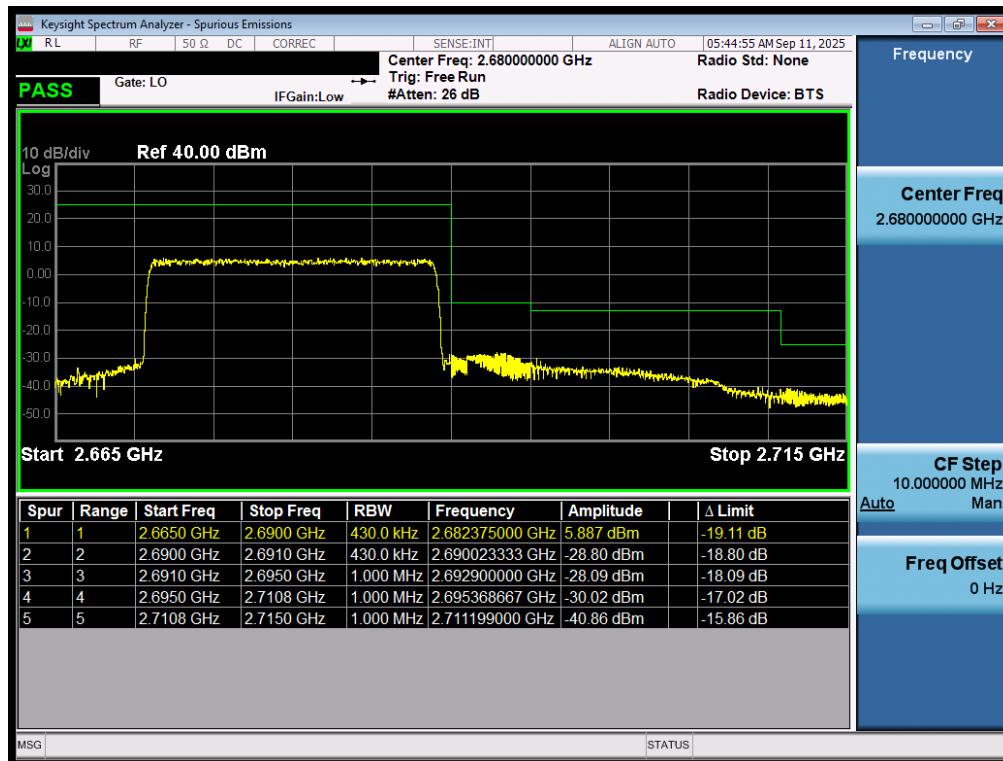


LTE Band 41(PC3) – Ant2



Plot 7-145. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant2)



Plot 7-146. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant2)

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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.

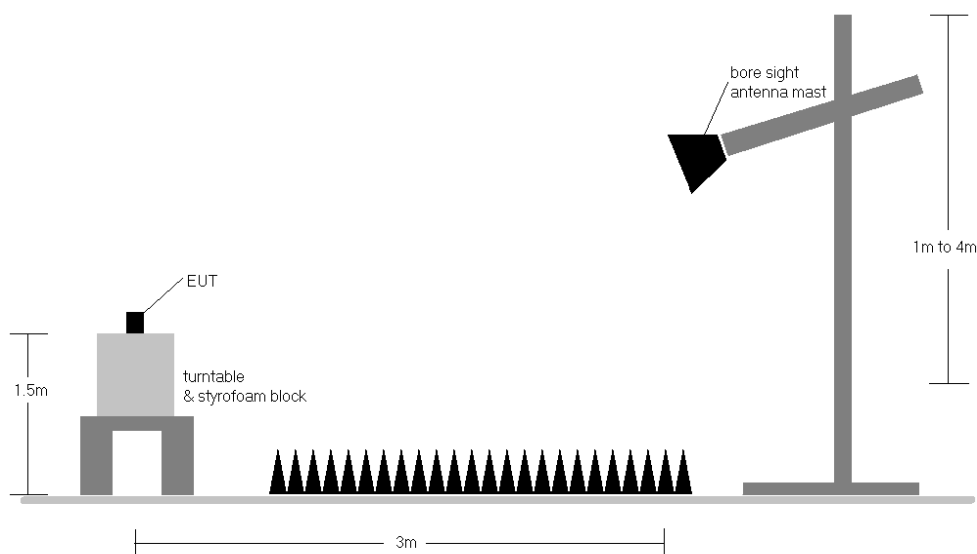


Figure 7-5. Radiated Test Setup >1GHz

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.
- 4) Only the highest target power SRS-1 antenna for n41 default (Antenna F) and n41 switching (Antenna B) are reported for the overall n41 SRS worst case.

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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	148	321	4.17	1 / 50	19.86	24.03	0.253	33.01	-8.98
	QPSK	2593.0	H	120	307	4.00	1 / 99	20.58	24.58	0.287	33.01	-8.43
	QPSK	2680.0	H	165	340	4.50	1 / 0	18.95	23.45	0.221	33.01	-9.56
	16-QAM	2506.0	H	148	321	4.17	1 / 50	18.80	22.97	0.198	33.01	-10.04
	16-QAM	2593.0	H	120	307	4.00	1 / 0	19.16	23.16	0.207	33.01	-9.85
	16-QAM	2680.0	H	165	340	4.50	1 / 0	17.54	22.04	0.160	33.01	-10.97
15 MHz	QPSK	2503.5	H	148	321	4.17	1 / 74	19.77	23.94	0.248	33.01	-9.07
	QPSK	2593.0	H	120	307	4.00	1 / 0	20.40	24.40	0.275	33.01	-8.61
	QPSK	2682.5	H	165	340	4.51	1 / 0	18.84	23.35	0.216	33.01	-9.66
	16-QAM	2503.5	H	148	321	4.17	1 / 74	18.66	22.83	0.192	33.01	-10.18
	16-QAM	2593.0	H	120	307	4.00	1 / 0	19.05	23.05	0.202	33.01	-9.96
	16-QAM	2682.5	H	165	340	4.51	1 / 0	17.33	21.84	0.153	33.01	-11.17
10 MHz	QPSK	2501.0	H	148	321	4.17	1 / 49	19.74	23.91	0.246	33.01	-9.10
	QPSK	2593.0	H	120	307	4.00	1 / 25	20.49	24.49	0.281	33.01	-8.52
	QPSK	2685.0	H	165	340	4.52	1 / 25	18.86	23.38	0.218	33.01	-9.63
	16-QAM	2501.0	H	148	321	4.17	1 / 49	18.67	22.84	0.192	33.01	-10.17
	16-QAM	2593.0	H	120	307	4.00	1 / 25	19.11	23.11	0.205	33.01	-9.90
	16-QAM	2685.0	H	165	340	4.52	1 / 25	17.39	21.91	0.155	33.01	-11.10
5 MHz	QPSK	2498.5	H	148	321	4.16	1 / 24	19.73	23.89	0.245	33.01	-9.12
	QPSK	2593.0	H	120	307	4.00	1 / 12	20.39	24.39	0.275	33.01	-8.62
	QPSK	2687.5	H	165	340	4.53	1 / 12	18.82	23.35	0.216	33.01	-9.66
	16-QAM	2498.5	H	148	321	4.16	1 / 24	18.68	22.84	0.192	33.01	-10.17
	16-QAM	2593.0	H	120	307	4.00	1 / 12	19.16	23.16	0.207	33.01	-9.85
	16-QAM	2687.5	H	165	340	4.53	1 / 12	18.44	22.97	0.198	33.01	-10.04
20 MHz	Opposite Pol.	2593.0	V	339	29	4.64	1 / 0	18.99	23.63	0.231	33.01	-9.38
	WCP	2593.0	H	108	316	4.00	1 / 50	19.83	23.83	0.241	33.01	-9.18

Table 7-24. EIRP Data (LTE Band 41(PC2)) – 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	135	333	4.17	1 / 0	19.12	23.29	0.213	33.01	-9.72
	QPSK	2593.0	H	118	320	4.00	1 / 50	19.00	23.00	0.199	33.01	-10.01
	QPSK	2680.0	H	137	319	4.50	1 / 0	17.61	22.11	0.163	33.01	-10.90
	16-QAM	2506.0	H	135	333	4.17	1 / 0	18.40	22.57	0.181	33.01	-10.44
15 MHz	QPSK	2503.5	H	135	333	4.17	1 / 74	18.29	22.47	0.176	33.01	-10.54
	QPSK	2593.0	H	118	320	4.00	1 / 37	18.58	22.58	0.181	33.01	-10.43
	QPSK	2682.5	H	137	319	4.51	1 / 37	17.12	21.63	0.145	33.01	-11.38
	16-QAM	2503.5	H	135	333	4.17	1 / 74	18.18	22.36	0.172	33.01	-10.65
10 MHz	QPSK	2501.0	H	135	333	4.17	1 / 49	18.20	22.37	0.172	33.01	-10.64
	QPSK	2593.0	H	118	320	4.00	1 / 25	18.65	22.65	0.184	33.01	-10.36
	QPSK	2685.0	H	137	319	4.52	1 / 25	17.11	21.63	0.145	33.01	-11.38
	16-QAM	2593.0	H	118	320	4.00	1 / 25	18.35	22.35	0.172	33.01	-10.66
5 MHz	QPSK	2498.5	H	135	333	4.16	1 / 12	18.31	22.48	0.177	33.01	-10.53
	QPSK	2593.0	H	118	320	4.00	1 / 12	18.64	22.64	0.183	33.01	-10.37
	QPSK	2687.5	H	137	319	4.53	1 / 12	17.15	21.68	0.147	33.01	-11.33
	16-QAM	2593.0	H	118	320	4.00	1 / 12	18.39	22.39	0.174	33.01	-10.62
20 MHz	Opposite Pol.	2506.0	V	362	131	4.81	1 / 0	17.82	22.63	0.183	33.01	-10.38
	WCP	2506.0	H	128	321	4.18	1 / 0	18.32	22.50	0.178	33.01	-10.51

Table 7-25. EIRP Data (LTE Band 41(PC3)) – Ant1

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [dBi]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
100 MHz	n/2 BPSK	2546.01	H	153	319	4.19	1/1	18.79	22.98	0.199	33.01	-10.03
	16-QAM	2592.99	H	112	321	4.00	1/136	19.47	23.47	0.222	33.01	-9.54
	n/2 BPSK	2640.00	H	108	331	4.31	1/1	19.45	23.76	0.238	33.01	-9.25
	QPSK	2546.01	H	153	319	4.19	1/1	18.88	23.07	0.203	33.01	-9.94
	QPSK	2592.99	H	112	321	4.00	1/136	19.87	23.87	0.244	33.01	-9.14
	QPSK	2640.00	H	108	331	4.31	1/1	19.35	23.66	0.232	33.01	-9.35
	16-QAM	2546.01	H	153	319	4.19	1/1	17.67	21.86	0.154	33.01	-11.15
	16-QAM	2592.99	H	112	321	4.00	1/136	19.19	23.19	0.208	33.01	-9.62
	16-QAM	2640.00	H	108	331	4.31	1/1	18.18	22.49	0.178	33.01	-10.52
	n/2 BPSK	2541.00	H	153	319	4.18	1/1	19.26	23.45	0.221	33.01	-9.55
	n/2 BPSK	2592.99	H	112	321	4.00	1/122	20.15	24.10	0.257	33.01	-8.91
	n/2 BPSK	2644.98	H	108	331	4.36	1/1	19.72	24.07	0.255	33.01	-8.94
90 MHz	QPSK	2541.00	H	153	319	4.19	1/1	19.15	23.34	0.216	33.01	-9.67
	QPSK	2592.99	H	112	321	4.00	1/243	20.22	24.22	0.264	33.01	-8.79
	QPSK	2644.98	H	108	331	4.36	1/122	19.22	23.07	0.228	33.01	-9.44
	16-QAM	2541.00	H	153	319	4.19	1/1	17.49	21.68	0.147	33.01	-11.33
	16-QAM	2592.99	H	112	321	4.00	1/122	19.06	23.06	0.202	33.01	-9.95
	16-QAM	2644.98	H	108	331	4.36	1/1	18.98	22.44	0.178	33.01	-10.57
	n/2 BPSK	2536.02	H	153	319	4.19	1/1	19.35	23.49	0.224	33.01	-9.52
	n/2 BPSK	2592.99	H	112	321	4.00	1/108	20.03	24.03	0.253	33.01	-8.98
	n/2 BPSK	2649.99	H	108	331	4.40	1/1	19.66	24.06	0.255	33.01	-8.95
	QPSK	2536.02	H	153	319	4.19	1/1	19.15	23.34	0.216	33.01	-9.67
	QPSK	2592.99	H	112	321	4.00	1/1	20.13	24.13	0.259	33.01	-8.88
	QPSK	2649.99	H	108	331	4.40	1/1	19.22	23.62	0.230	33.01	-9.39
80 MHz	16-QAM	2536.02	H	153	319	4.19	1/1	17.49	21.68	0.147	33.01	-11.33
	16-QAM	2592.99	H	112	321	4.00	1/216	19.99	23.99	0.262	33.01	-8.86
	16-QAM	2649.99	H	108	331	4.40	1/1	17.95	22.95	0.172	33.01	-10.69
	n/2 BPSK	2531.01	H	153	319	4.19	1/1	19.15	23.33	0.215	33.01	-9.68
	n/2 BPSK	2592.99	H	112	321	4.00	1/94	19.87	23.97	0.249	33.01	-9.04
	n/2 BPSK	2655.00	H	108	331	4.44	1/94	19.54	23.95	0.248	33.01	-9.08
	QPSK	2531.01	H	153	319	4.19	1/1	18.96	23.13	0.206	33.01	-9.88
	QPSK	2592.99	H	112	321	4.00	1/187	20.13	24.13	0.259	33.01	-8.88
	QPSK	2655.00	H	108	331	4.42	1/94	19.03	23.44	0.221	33.01	-9.57
	16-QAM	2531.01	H	153	319	4.19	1/187	17.34	21.52	0.142	33.01	-11.49
	16-QAM	2592.99	H	112	321	4.00	1/187	19.99	23.99	0.264	33.01	-8.86
	16-QAM	2649.99	H	108	331	4.42	1/94	17.86	22.77	0.169	33.01	-10.74
70 MHz	n/2 BPSK	2528.00	H	153	319	4.18	1/1	19.17	23.35	0.216	33.01	-9.69
	n/2 BPSK	2592.99	H	112	321	4.00	1/1	19.99	23.99	0.251	33.01	-8.92
	n/2 BPSK	2654.98	H	108	331	4.43	1/1	19.54	23.97	0.260	33.01	-9.04
	QPSK	2528.00	H	153	319	4.18	1/1	18.97	23.15	0.207	33.01	-9.86
	QPSK	2592.99	H	112	321	4.00	1/160	20.26	24.26	0.266	33.01	-8.78
	QPSK	2659.98	H	108	331	4.43	1/1	19.03	23.46	0.222	33.01	-9.55
	16-QAM	2528.00	H	153	319	4.18	1/1	17.29	21.46	0.140	33.01	-11.55
	16-QAM	2592.99	H	112	321	4.00	1/160	19.07	23.07	0.203	33.01	-9.94
	16-QAM	2659.98	H	108	331	4.43	1/1	17.70	22.13	0.163	33.01	-10.88
	n/2 BPSK	2521.02	H	153	319	4.18	1/1	19.24	23.42	0.220	33.01	-9.59
	n/2 BPSK	2592.99	H	112	321	4.00	1/131	20.19	24.19	0.262	33.01	-8.85
	n/2 BPSK	2664.99	H	108	331	4.45	1/131	19.56	24.01	0.252	33.01	-9.00
60 MHz	QPSK	2521.02	H	153	319	4.18	1/131	19.12	23.30	0.214	33.01	-9.71
	QPSK	2592.99	H	112	321	4.00	1/131	20.41	24.41	0.276	33.01	-8.60
	QPSK	2664.99	H	108	331	4.45	1/131	19.15	23.60	0.229	33.01	-9.41
	16-QAM	2521.02	H	153	319	4.18	1/1	17.43	21.61	0.145	33.01	-11.40
	16-QAM	2592.99	H	112	321	4.00	1/131	19.31	23.31	0.214	33.01	-9.70
	16-QAM	2664.99	H	108	331	4.45	1/131	17.98	22.43	0.175	33.01	-10.58
	n/2 BPSK	2518.50	H	153	319	4.18	1/1	19.26	23.44	0.221	33.01	-9.51
	n/2 BPSK	2592.99	H	112	321	4.00	1/1	20.03	24.03	0.253	33.01	-8.98
	n/2 BPSK	2667.50	H	108	331	4.47	1/1	19.49	23.95	0.248	33.01	-9.06
	QPSK	2518.50	H	153	319	4.18	1/1	19.04	23.22	0.210	33.01	-9.79
	QPSK	2592.99	H	112	321	4.00	1/117	19.06	23.06	0.202	33.01	-9.95
	QPSK	2667.50	H	108	331	4.47	1/1	17.80	22.26	0.168	33.01	-10.73
	45 MHz	n/2 BPSK	2516.01	H	153	319	4.18	1/1	19.10	23.27	0.212	33.01
n/2 BPSK		2592.99	H	112	321	4.00	1/104	20.04	24.04	0.253	33.01	-8.97
n/2 BPSK		2670.00	H	108	331	4.48	1/1	19.26	23.74	0.237	33.01	-9.27
QPSK		2516.01	H	153	319	4.18	1/104	18.85	23.10	0.204	33.01	-9.91
QPSK		2592.99	H	112	321	4.00	1/104	20.20	24.20	0.263	33.01	-8.81
QPSK		2670.00	H	108	331	4.48	1/1	18.81	23.29	0.213	33.01	-9.72
16-QAM		2516.01	H	153	319	4.18	1/104	17.43	21.60	0.145	33.01	-11.41
16-QAM		2592.99	H	112	321	4.00	1/104	19.03	23.03	0.201	33.01	-9.98
16-QAM		2670.00	H	108	331	4.48	1/104	17.80	22.08	0.162	33.01	-10.93
n/2 BPSK		2513.50	H	153	319	4.18	1/1	19.34	23.51	0.225	33.01	-9.50
n/2 BPSK		2592.99	H	112	321	4.00	1/1	20.07	24.07	0.255	33.01	-8.94
n/2 BPSK		2672.50	H	108	331	4.50	1/1	19.39	23.89	0.245	33.01	-9.12
35 MHz		QPSK	2513.50	H	153	319	4.18	1/1	19.04	23.21	0.210	33.01
	QPSK	2592.99	H	112	321	4.00	1/1	20.22	24.22	0.264	33.01	-8.79
	QPSK	2672.50	H	108	331	4.50	1/1	18.94	23.44	0.221	33.01	-9.57
	16-QAM	2513.50	H	153	319	4.18	1/1	17.68	21.85	0.153	33.01	-11.18
	16-QAM	2592.99	H	112	321	4.00	1/1	19.02	23.02	0.200	33.01	-9.99
	16-QAM	2672.50	H	108	331	4.50	1/1	17.65	22.15	0.164	33.01	-10.86
	n/2 BPSK	2511.00	H	153	319	4.18	1/1	19.44	23.61	0.230	33.01	-9.40
	n/2 BPSK	2592.99	H	112	321	4.00	1/1	20.25	24.25	0.268	33.01	-8.72
	n/2 BPSK	2674.98	H	108	331	4.50	1/1	19.70	24.20	0.263	33.01	-8.81
	QPSK	2511.00	H	153	319	4.18	1/1	19.26	23.43	0.220	33.01	-9.58
	QPSK	2592.99	H	112	321	4.00	1/1	20.36	24.36	0.273	33.01	-8.65
	QPSK	2674.98	H	108	331	4.50	1/1	19.05	23.55	0.227	33.01	-9.46
	30 MHz	16-QAM	2511.00	H	153	319	4.18	1/76	17.70	21.87	0.154	33.01
16-QAM		2592.99	H	112	321	4.00	1/1	19.20	23.20	0.209	33.01	-9.81
16-QAM		2674.98	H	108	331	4.50	1/1	17.87	22.47	0.177	33.01	-10.54
n/2 BPSK		2508.50	H	153	319	4.18	1/1	19.34	23.51	0.225	33.01	-9.50
n/2 BPSK		2592.99	H	112	321	4.00	1/1	20.27	24.27	0.267	33.01	-8.74
n/2 BPSK		2677.50	H	108	331	4.50	1/1	19.48	23.98	0.250	33.01	-9.03
QPSK		2508.50	H	153	319	4.18	1/1	19.20	23.37	0.217	33.01	-9.84
QPSK		2592.99	H	112	321	4.00	1/1	20.41	24.41	0.276	33.01	-8.60
QPSK		2677.50	H	108	331	4.50	1/1	19.21	23.71	0.235	33.01	-9.30
16-QAM		2508.50	H	153	319	4.18	1/32	17.63	21.80	0.151	33.01	-11.21
16-QAM		2592.99	H	112	321	4.00	1/1	19.16	23.16	0.207	33.01	-9.95
16-QAM		2677.50	H	108	331	4.50	1/1	18.96	22.95	0.180	33.01	-10.46
25 MHz		n/2 BPSK	2506.02	H	153	319	4.18	1/24	18.53	23.60	0.229	33.01
	n/2 BPSK	2592.99	H	112	321	4.00	1/125	20.15	24.15	0.260	33.01	-8.86
	n/2 BPSK	2679.99	H	108	331	4.50	1/125	19.56	24.06	0.255	33.01	-8.95
	QPSK	2506.02	H	153	319	4.18	1/125	19.26	23.43	0.220	33.01	-9.58
	QPSK	2592.99	H	112	321	4.00	1/125	19.86	23.86	0.257	33.01	-8.89
	QPSK	2679.99	H	108	331	4.50	1/125	19.16	23.66	0.232	33.01	-9.35
	16-QAM	2506.02	H	153	319	4.18	1/125	17.66	21.83	0.153	33.01	-11.18
	16-QAM	2592.99	H	112	321							

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	Margin [dB]
100 MHz	11/2 BPSK	2546.01	H	111	165	4.19	1 / 136	19.38	23.57	0.228	33.01	-9.44
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 136	20.45	24.45	0.279	33.01	-8.56
	11/2 BPSK	2640.00	H	162	159	4.31	1 / 1	19.53	23.84	0.242	33.01	-9.17
	QPSK	2546.01	H	111	165	4.19	1 / 136	19.24	23.43	0.220	33.01	-9.58
	QPSK	2592.99	H	140	161	4.00	1 / 136	19.93	23.93	0.247	33.01	-9.08
	QPSK	2640.00	H	162	159	4.31	1 / 1	19.57	23.88	0.244	33.01	-9.13
90 MHz	16-QAM	2592.99	H	140	161	4.00	1 / 271	19.38	23.38	0.218	33.01	-9.63
	11/2 BPSK	2541.00	H	111	165	4.19	1 / 1	19.74	23.93	0.247	33.01	-9.08
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 243	20.18	24.18	0.262	33.01	-8.83
	11/2 BPSK	2644.98	H	162	159	4.36	1 / 1	19.80	24.15	0.260	33.01	-8.86
	QPSK	2541.00	H	111	165	4.19	1 / 1	19.31	23.50	0.224	33.01	-9.51
	QPSK	2592.99	H	140	161	4.00	1 / 1	20.05	24.05	0.254	33.01	-8.96
80 MHz	QPSK	2644.98	H	162	159	4.36	1 / 1	19.71	24.06	0.255	33.01	-8.95
	16-QAM	2592.99	H	140	161	4.00	1 / 122	19.37	23.37	0.217	33.01	-9.64
	11/2 BPSK	2536.02	H	111	165	4.19	1 / 1	19.68	23.87	0.244	33.01	-9.14
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 215	20.12	24.12	0.258	33.01	-8.89
	11/2 BPSK	2649.99	H	162	159	4.40	1 / 1	19.75	24.15	0.260	33.01	-8.86
	QPSK	2536.02	H	111	165	4.19	1 / 1	19.28	23.47	0.222	33.01	-9.54
70 MHz	QPSK	2592.99	H	140	161	4.00	1 / 215	19.95	23.95	0.248	33.01	-9.06
	QPSK	2649.99	H	162	159	4.40	1 / 1	19.67	24.07	0.255	33.01	-8.94
	16-QAM	2592.99	H	140	161	4.00	1 / 1	19.40	23.40	0.219	33.01	-9.61
	11/2 BPSK	2531.01	H	111	165	4.18	1 / 187	19.57	23.75	0.237	33.01	-9.26
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 187	20.29	24.29	0.268	33.01	-8.72
	11/2 BPSK	2655.00	H	162	159	4.42	1 / 1	19.68	24.09	0.257	33.01	-8.92
60 MHz	QPSK	2531.01	H	111	165	4.18	1 / 187	19.24	23.42	0.220	33.01	-9.59
	QPSK	2592.99	H	140	161	4.00	1 / 187	20.13	24.13	0.259	33.01	-8.88
	QPSK	2655.00	H	162	159	4.42	1 / 1	19.59	24.00	0.251	33.01	-9.01
	16-QAM	2592.99	H	140	161	4.00	1 / 187	19.51	23.51	0.224	33.01	-9.50
	11/2 BPSK	2526.00	H	111	165	4.18	1 / 1	19.55	23.73	0.236	33.01	-9.28
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 160	20.28	24.28	0.268	33.01	-8.73
50 MHz	11/2 BPSK	2659.98	H	162	159	4.43	1 / 1	19.63	24.06	0.255	33.01	-8.95
	QPSK	2526.00	H	111	165	4.18	1 / 1	19.26	23.44	0.221	33.01	-9.57
	QPSK	2592.99	H	140	161	4.00	1 / 160	20.17	24.17	0.261	33.01	-8.84
	QPSK	2659.98	H	162	159	4.43	1 / 1	19.67	24.10	0.257	33.01	-8.91
	16-QAM	2592.99	H	140	161	4.00	1 / 160	19.42	23.42	0.220	33.01	-9.59
	11/2 BPSK	2521.02	H	111	165	4.18	1 / 131	19.73	23.91	0.246	33.01	-9.10
45 MHz	11/2 BPSK	2592.99	H	140	161	4.00	1 / 131	20.40	24.40	0.275	33.01	-8.61
	11/2 BPSK	2664.99	H	162	159	4.45	1 / 1	19.49	23.94	0.248	33.01	-9.07
	QPSK	2521.02	H	111	165	4.18	1 / 131	19.32	23.50	0.224	33.01	-9.51
	QPSK	2592.99	H	140	161	4.00	1 / 131	20.22	24.22	0.264	33.01	-8.79
	QPSK	2664.99	H	162	159	4.45	1 / 1	19.43	23.88	0.244	33.01	-9.13
	16-QAM	2592.99	H	140	161	4.00	1 / 131	19.67	23.67	0.233	33.01	-9.34
40 MHz	11/2 BPSK	2518.50	H	111	165	4.18	1 / 1	19.65	23.83	0.242	33.01	-9.18
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 117	20.18	24.18	0.262	33.01	-8.83
	11/2 BPSK	2667.50	H	162	159	4.47	1 / 1	19.55	24.01	0.252	33.01	-9.00
	QPSK	2518.50	H	111	165	4.18	1 / 1	19.26	23.44	0.221	33.01	-9.57
	QPSK	2592.99	H	140	161	4.00	1 / 117	20.01	24.01	0.252	33.01	-9.00
	QPSK	2667.50	H	162	159	4.47	1 / 1	19.44	23.90	0.246	33.01	-9.11
35 MHz	16-QAM	2592.99	H	140	161	4.00	1 / 117	19.30	23.30	0.214	33.01	-9.71
	11/2 BPSK	2516.01	H	111	165	4.18	1 / 1	19.54	23.71	0.235	33.01	-9.30
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 104	20.16	24.16	0.261	33.01	-8.85
	11/2 BPSK	2670.00	H	162	159	4.48	1 / 1	19.30	23.78	0.239	33.01	-9.23
	QPSK	2516.01	H	111	165	4.18	1 / 1	19.15	23.32	0.215	33.01	-9.69
	QPSK	2592.99	H	140	161	4.00	1 / 104	20.14	24.14	0.259	33.01	-8.87
30 MHz	QPSK	2670.00	H	162	159	4.48	1 / 1	19.14	23.62	0.230	33.01	-9.39
	16-QAM	2592.99	H	140	161	4.00	1 / 104	19.26	23.26	0.212	33.01	-9.75
	11/2 BPSK	2513.50	H	111	165	4.17	1 / 1	19.65	23.82	0.241	33.01	-9.19
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 1	20.16	24.16	0.261	33.01	-8.85
	11/2 BPSK	2672.50	H	162	159	4.50	1 / 1	19.38	23.88	0.244	33.01	-9.13
	QPSK	2513.50	H	111	165	4.17	1 / 1	19.24	23.41	0.219	33.01	-9.60
25 MHz	QPSK	2592.99	H	140	161	4.00	1 / 1	19.89	23.89	0.245	33.01	-9.12
	QPSK	2672.50	H	162	159	4.50	1 / 1	19.36	23.86	0.243	33.01	-9.15
	16-QAM	2592.99	H	140	161	4.00	1 / 90	19.07	23.07	0.203	33.01	-9.94
	11/2 BPSK	2511.00	H	111	165	4.17	1 / 1	19.84	24.01	0.252	33.01	-9.00
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 1	20.39	24.39	0.275	33.01	-8.62
	11/2 BPSK	2674.98	H	162	159	4.50	1 / 1	19.60	24.10	0.257	33.01	-8.91
20 MHz	QPSK	2511.00	H	111	165	4.17	1 / 1	19.52	23.69	0.234	33.01	-9.32
	QPSK	2592.99	H	140	161	4.00	1 / 1	20.03	24.03	0.253	33.01	-8.98
	QPSK	2674.98	H	162	159	4.50	1 / 1	19.33	23.83	0.242	33.01	-9.18
	16-QAM	2674.98	H	162	159	4.50	1 / 1	18.86	23.36	0.217	33.01	-9.65
	11/2 BPSK	2508.50	H	111	165	4.17	1 / 1	19.80	23.97	0.250	33.01	-9.04
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 1	20.35	24.35	0.272	33.01	-8.66
15 MHz	11/2 BPSK	2677.50	H	162	159	4.50	1 / 1	19.56	24.06	0.255	33.01	-8.95
	QPSK	2508.50	H	111	165	4.17	1 / 1	19.29	23.46	0.222	33.01	-9.55
	QPSK	2592.99	H	140	161	4.00	1 / 1	20.12	24.12	0.258	33.01	-8.89
	QPSK	2677.50	H	162	159	4.50	1 / 1	19.37	23.87	0.244	33.01	-9.14
	16-QAM	2592.99	H	140	161	4.00	1 / 1	19.34	23.34	0.216	33.01	-9.67
	11/2 BPSK	2506.02	H	111	165	4.17	1 / 25	19.68	23.85	0.243	33.01	-9.16
10 MHz	11/2 BPSK	2592.99	H	140	161	4.00	1 / 25	20.32	24.32	0.270	33.01	-8.69
	11/2 BPSK	2679.99	H	162	159	4.50	1 / 25	19.54	24.04	0.254	33.01	-8.97
	QPSK	2506.02	H	111	165	4.17	1 / 25	19.31	23.48	0.223	33.01	-9.53
	QPSK	2592.99	H	140	161	4.00	1 / 25	20.26	24.26	0.267	33.01	-8.75
	QPSK	2679.99	H	162	159	4.50	1 / 25	19.44	23.94	0.248	33.01	-9.07
	16-QAM	2592.99	H	140	161	4.00	1 / 1	19.40	23.40	0.219	33.01	-9.61
5 MHz	11/2 BPSK	2503.50	H	111	165	4.17	1 / 36	19.69	23.86	0.243	33.01	-9.15
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 36	20.40	24.40	0.275	33.01	-8.61
	11/2 BPSK	2682.50	H	162	159	4.50	1 / 36	19.52	24.02	0.253	33.01	-8.99
	QPSK	2503.50	H	111	165	4.17	1 / 36	19.42	23.59	0.229	33.01	-9.42
	QPSK	2592.99	H	140	161	4.00	1 / 36	19.95	23.95	0.248	33.01	-9.06
	QPSK	2682.50	H	162	159	4.50	1 / 36	19.26	23.76	0.238	33.01	-9.25
100 MHz	16-QAM	2592.99	H	140	161	4.00	1 / 36	19.46	23.46	0.222	33.01	-9.55
	11/2 BPSK	2501.00	H	111	165	4.17	1 / 22	19.72	23.89	0.245	33.01	-9.12
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 22	20.29	24.29	0.268	33.01	-8.72
	11/2 BPSK	2685.00	H	162	159	4.50	1 / 22	19.44	23.94	0.248	33.01	-9.07
	QPSK	2501.00	H	111	165	4.17	1 / 12	19.30	23.47	0.222	33.01	-9.54
	QPSK	2592.99	H	140	161	4.00	1 / 12	20.14	24.14	0.259	33.01	-8.87
100 MHz	QPSK	2685.00	H	162	159	4.50	1 / 22	19.52	24.02	0.253	33.01	-8.99
	16-QAM	2592.99	H	140	161	4.00	1 / 12	19.48	23.48	0.223	33.01	-9.53
	QPSK (CP-OFDM)	2592.99	H	166	161	4.00	1 / 136	18.93				

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	159	143	4.17	1 / 50	19.23	23.40	0.219	33.01	-9.61
	QPSK	2593.0	H	112	149	4.00	1 / 99	20.13	24.13	0.259	33.01	-8.88
	QPSK	2680.0	H	112	147	4.50	1 / 0	19.84	24.34	0.272	33.01	-8.67
	16-QAM	2506.0	H	159	143	4.17	1 / 50	18.29	22.46	0.176	33.01	-10.55
	16-QAM	2593.0	H	112	149	4.00	1 / 99	19.28	23.28	0.213	33.01	-9.73
	16-QAM	2680.0	H	112	147	4.50	1 / 0	18.85	23.35	0.216	33.01	-9.66
15 MHz	QPSK	2503.5	H	159	143	4.17	1 / 37	19.15	23.32	0.215	33.01	-9.69
	QPSK	2593.0	H	112	149	4.00	1 / 37	20.13	24.13	0.259	33.01	-8.88
	QPSK	2682.5	H	112	147	4.51	1 / 0	19.83	24.34	0.272	33.01	-8.67
	16-QAM	2503.5	H	159	143	4.17	1 / 37	18.14	22.31	0.170	33.01	-10.70
	16-QAM	2593.0	H	112	149	4.00	1 / 37	19.35	23.35	0.216	33.01	-9.66
	16-QAM	2682.5	H	112	147	4.51	1 / 0	18.72	23.23	0.210	33.01	-9.78
10 MHz	QPSK	2501.0	H	159	143	4.17	1 / 25	19.22	23.39	0.218	33.01	-9.62
	QPSK	2593.0	H	112	149	4.00	1 / 25	20.15	24.15	0.260	33.01	-8.86
	QPSK	2685.0	H	112	147	4.52	1 / 25	19.93	24.45	0.279	33.01	-8.56
	16-QAM	2501.0	H	159	143	4.17	1 / 25	18.10	22.27	0.169	33.01	-10.74
	16-QAM	2593.0	H	112	149	4.00	1 / 25	19.26	23.26	0.212	33.01	-9.75
	16-QAM	2685.0	H	112	147	4.52	1 / 25	18.74	23.26	0.212	33.01	-9.75
5 MHz	QPSK	2498.5	H	159	143	4.16	1 / 24	19.25	23.41	0.219	33.01	-9.60
	QPSK	2593.0	H	112	149	4.00	1 / 12	20.19	24.19	0.262	33.01	-8.82
	QPSK	2687.5	H	112	147	4.53	1 / 12	19.89	24.42	0.277	33.01	-8.59
	16-QAM	2498.5	H	159	143	4.16	1 / 24	18.33	22.49	0.178	33.01	-10.52
	16-QAM	2593.0	H	112	149	4.00	1 / 12	19.36	23.36	0.217	33.01	-9.65
	16-QAM	2687.5	H	112	147	4.53	1 / 12	18.85	23.38	0.218	33.01	-9.63
20 MHz	Opposite Pol.	2680.0	V	112	276	5.10	1 / 50	16.69	21.79	0.151	33.01	-11.22
	WCP	2680.0	H	143	196	4.50	1 / 99	17.18	21.68	0.147	33.01	-11.33

Table 7-28. 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	159	145	4.17	1 / 50	18.01	22.18	0.165	33.01	-10.83
	QPSK	2593.0	H	112	149	4.00	1 / 99	19.11	23.11	0.205	33.01	-9.90
	QPSK	2680.0	H	140	131	4.50	1 / 50	18.81	23.31	0.214	33.01	-9.70
	16-QAM	2506.0	H	159	145	4.17	1 / 50	16.87	21.04	0.127	33.01	-11.97
	16-QAM	2593.0	H	112	149	4.00	1 / 99	18.29	22.29	0.169	33.01	-10.72
	16-QAM	2680.0	H	140	131	4.50	1 / 50	17.86	22.36	0.172	33.01	-10.65
15 MHz	QPSK	2503.5	H	159	145	4.17	1 / 0	17.99	22.16	0.165	33.01	-10.85
	QPSK	2593.0	H	112	149	4.00	1 / 0	18.99	22.99	0.199	33.01	-10.02
	QPSK	2682.5	H	140	131	4.51	1 / 0	18.60	23.11	0.205	33.01	-9.90
	16-QAM	2682.5	H	140	131	4.51	1 / 0	17.87	22.38	0.173	33.01	-10.63
10 MHz	QPSK	2501.0	H	159	145	4.17	1 / 25	18.02	22.19	0.166	33.01	-10.82
	QPSK	2593.0	H	112	149	4.00	1 / 25	18.99	22.99	0.199	33.01	-10.02
	QPSK	2685.0	H	140	131	4.52	1 / 0	18.73	23.25	0.211	33.01	-9.76
	16-QAM	2593.0	H	112	149	4.00	1 / 25	18.35	22.35	0.172	33.01	-10.66
5 MHz	QPSK	2498.5	H	159	145	4.16	1 / 24	18.01	22.17	0.165	33.01	-10.84
	QPSK	2593.0	H	112	149	4.00	1 / 12	19.02	23.02	0.200	33.01	-9.99
	QPSK	2687.5	H	140	131	4.53	1 / 24	18.63	23.16	0.207	33.01	-9.85
	16-QAM	2593.0	H	112	149	4.00	1 / 12	18.41	22.41	0.174	33.01	-10.60
20 MHz	Opposite Pol.	2680.0	V	112	276	5.10	1 / 50	15.69	20.79	0.120	33.01	-12.22
	WCP	2680.0	H	143	196	4.50	1 / 99	16.18	20.68	0.117	33.01	-12.33

Table 7-29. EIRP Data (LTE Band 41(PC3)) – Ant2

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 122 of 139



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

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-09-R2.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 123 of 139

Test Setup

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

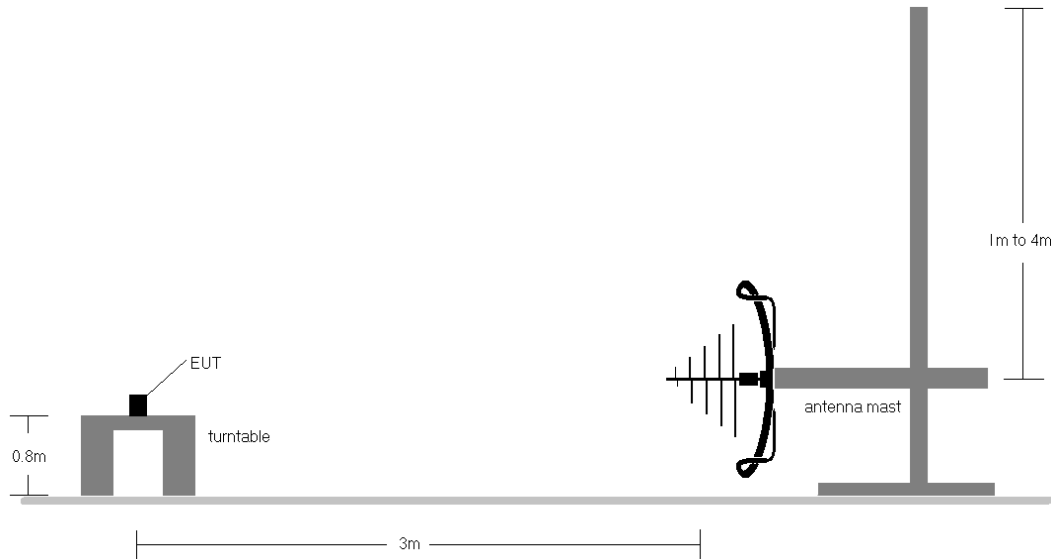


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

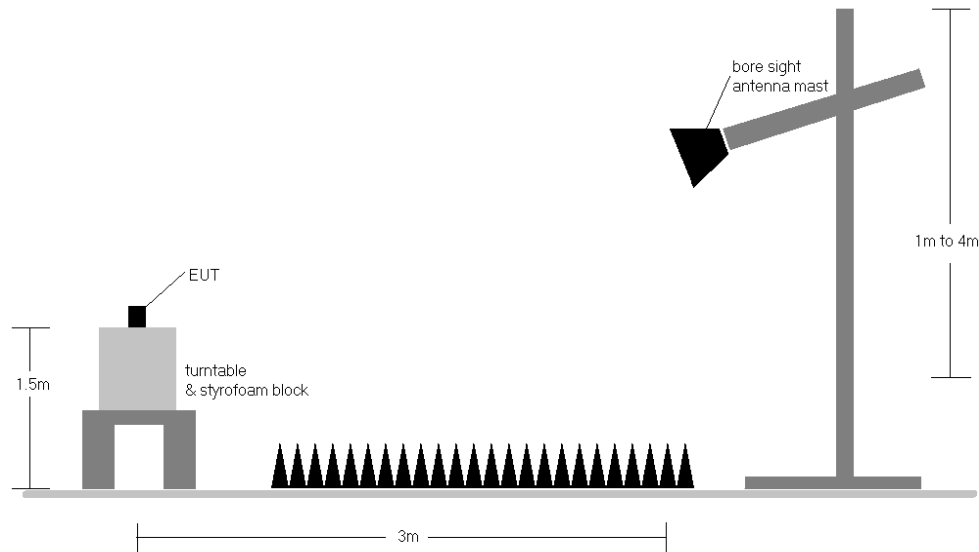


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

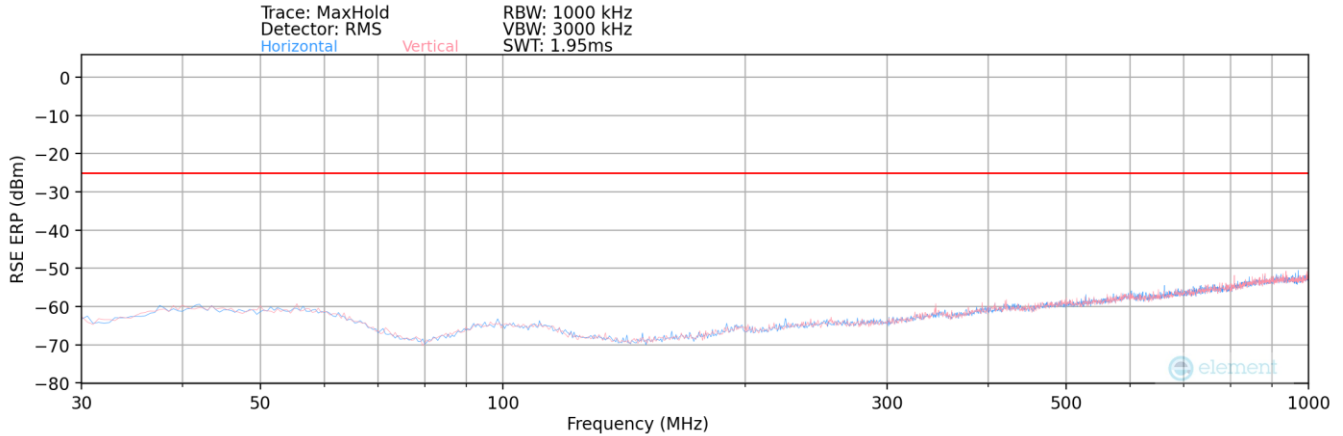
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Test Notes

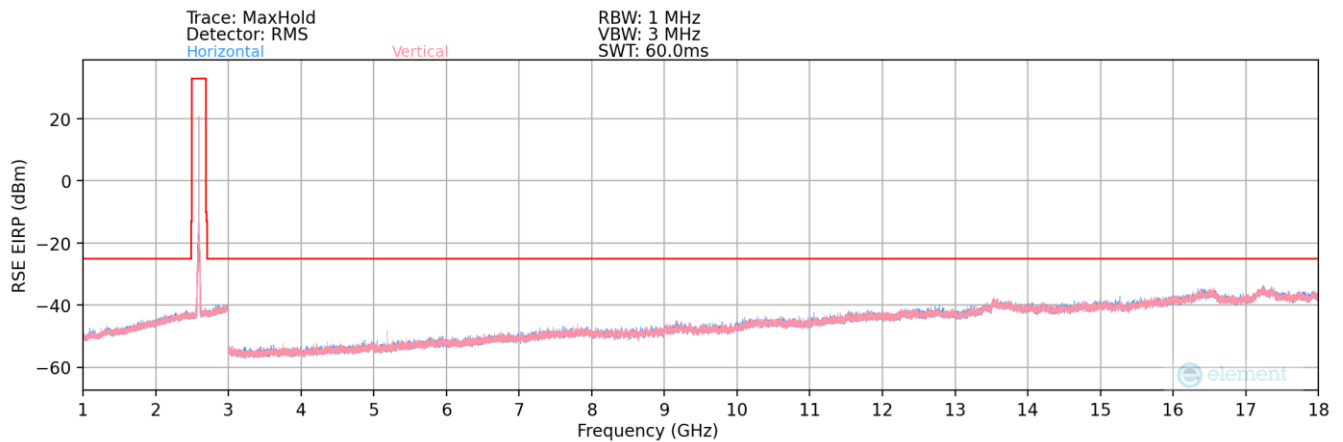
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26:2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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) 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 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.
- 9) Only the highest target power SRS-1 antenna for n41 default (Antenna F) and n41 switching (Antenna B) are reported for the overall n41 SRS worst case.

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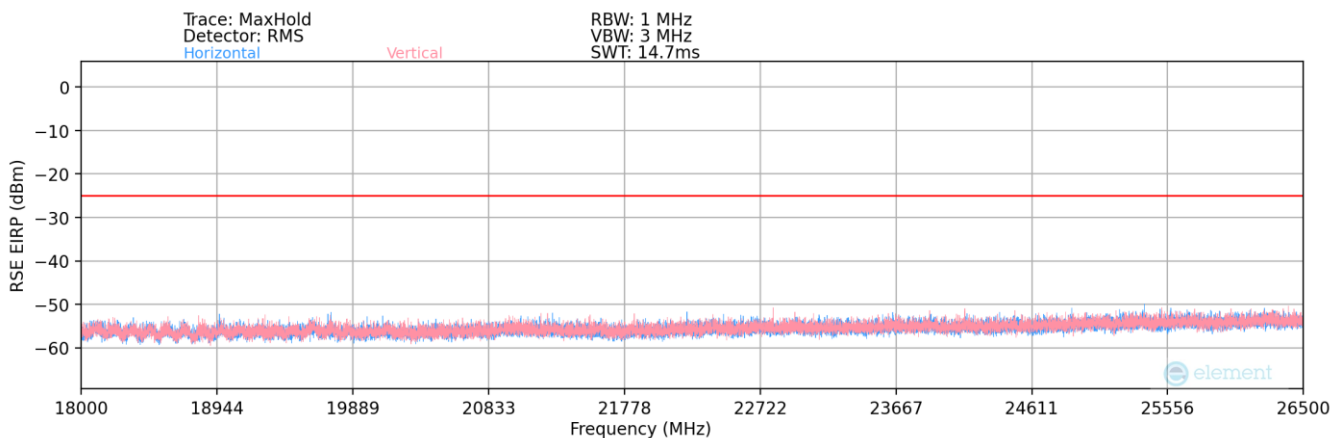
LTE Band 41(PC2) – Ant1



Plot 7-147. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant1



Plot 7-148. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant1



Plot 7-149. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant1

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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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
330.00	V	369	10	-65.89	-10.00	31.11	-66.29	-25.00	-41.29
800.00	V	283	352	-67.49	-1.86	37.65	-59.76	-25.00	-34.76

Table 7-30. Radiated Spurious Data (LTE Band 41(PC2)) – Ant1

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
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]
5020.00	V	156	204	-68.59	10.12	48.53	-46.73	-25.00	-21.73
7530.00	V	114	197	-63.46	15.55	59.09	-36.17	-25.00	-11.17
10040.00	V	-	-	-71.22	18.98	54.76	-40.50	-25.00	-15.50
12550.00	V	-	-	-71.85	23.53	58.68	-36.58	-25.00	-11.58
15060.00	V	-	-	-72.83	26.63	60.80	-34.45	-25.00	-9.45

Table 7-31. 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	258	204	-64.52	10.38	52.86	-42.40	-25.00	-17.40
7779.00	V	356	151	-68.37	15.44	54.07	-41.18	-25.00	-16.18
10372.00	V	-	-	-70.80	19.53	55.73	-39.53	-25.00	-14.53
12965.00	V	-	-	-72.23	24.45	59.22	-36.04	-25.00	-11.04
15558.00	V	-	-	-73.29	28.35	62.06	-33.20	-25.00	-8.20

Table 7-32. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel) – Ant1

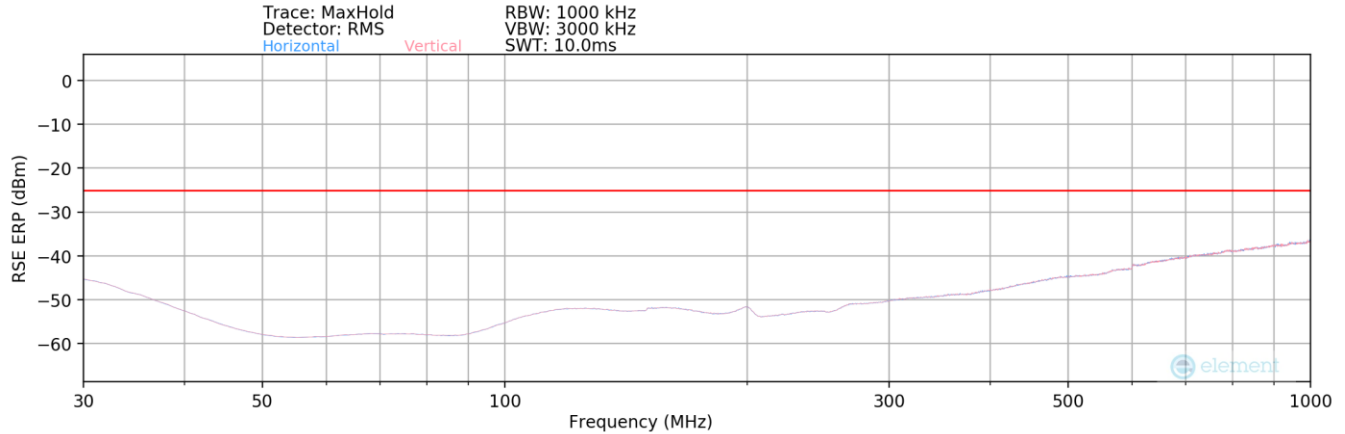
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

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	123	338	-67.29	10.79	50.50	-44.76	-25.00	-19.76
8040.00	V	149	234	-69.97	16.08	53.11	-42.15	-25.00	-17.15
10720.00	V	-	-	-72.02	20.23	55.21	-40.04	-25.00	-15.04
13400.00	V	-	-	-72.48	24.88	59.40	-35.85	-25.00	-10.85
16080.00	V	-	-	-72.59	28.30	62.71	-32.55	-25.00	-7.55

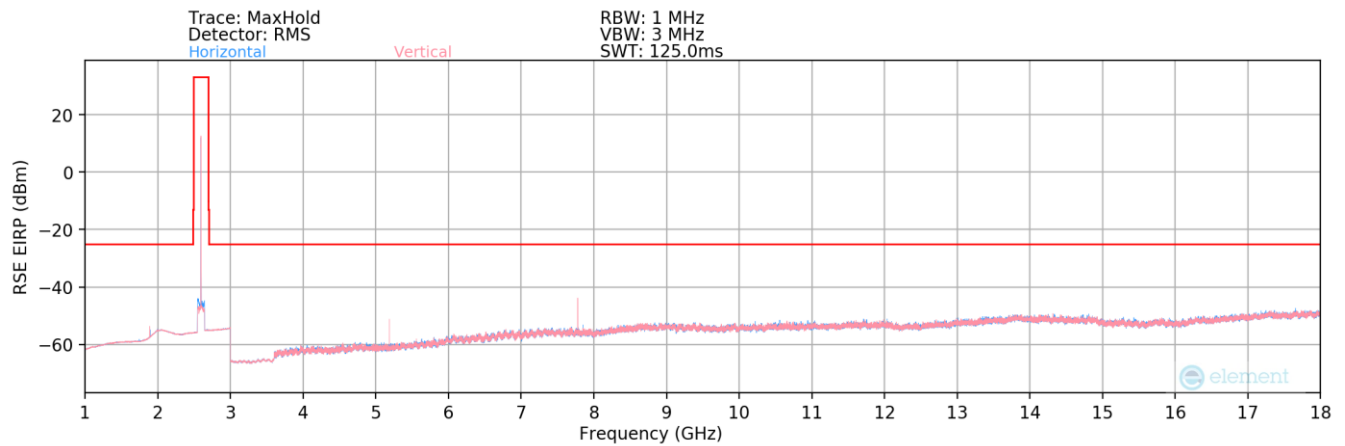
Table 7-33. Radiated Spurious Data (LTE Band 41(PC2) – High Channel) – Ant1

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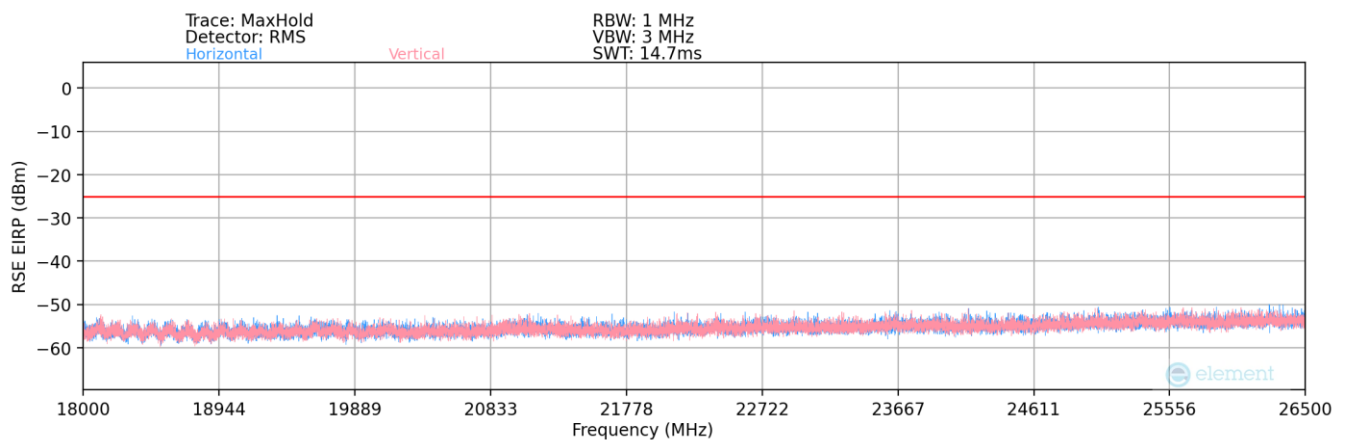
NR Band n41(PC2) – Default – Ant1



Plot 7-150. Radiated Spurious Plot (NR Band n41(PC2) – Default – Ant1)



Plot 7-151. Radiated Spurious Plot (NR Band n41(PC2) – Default – Ant1)



Plot 7-152. Radiated Spurious Plot NR Band n41(PC2) – Default – Ant1

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
684.00	H	-	-	-90.48	28.59	45.11	-52.30	-25.00	-27.30

Table 7-34. Radiated Spurious Data (NR Band n41(PC2) – Default – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

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]
5092.02	H	368	238	-65.34	3.17	44.83	-50.43	-25.00	-25.43
7638.03	H	296	200	-57.09	9.72	59.63	-35.63	-25.00	-10.63
10184.04	H	-	-	-78.00	12.49	41.49	-53.77	-25.00	-28.77
12730.05	H	-	-	-78.42	13.59	42.17	-53.08	-25.00	-28.08
15276.06	H	-	-	-81.52	14.37	39.85	-55.41	-25.00	-30.41

Table 7-35. Radiated Spurious Data (NR Band n41(PC2) – Low Channel) – Default – Ant1

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
5185.98	H	334	231	-64.91	3.36	45.45	-49.80	-25.00	-24.80
7778.97	H	255	204	-59.00	8.63	56.63	-38.63	-25.00	-13.63
10371.96	H	-	-	-77.99	12.21	41.22	-54.03	-25.00	-29.03
12964.95	H	-	-	-78.58	14.39	42.81	-52.45	-25.00	-27.45
15557.94	H	-	-	-78.27	13.63	42.36	-52.90	-25.00	-27.90

Table 7-36. Radiated Spurious Data (NR Band n41(PC2) – Mid Channel) – Default – Ant1

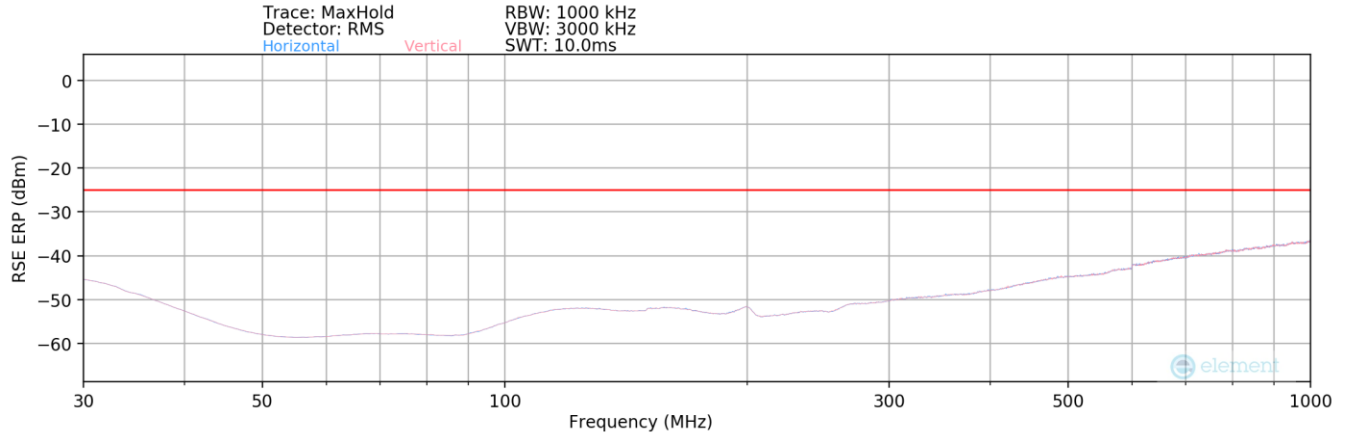
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

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]
5280.00	H	371	231	-70.21	3.28	40.07	-55.19	-25.00	-30.19
7920.00	H	134	17	-71.17	9.67	45.50	-49.76	-25.00	-24.76
10560.00	H	-	-	-78.33	12.67	41.34	-53.91	-25.00	-28.91
13200.00	H	-	-	-78.54	14.94	43.40	-51.86	-25.00	-26.86
15840.00	H	-	-	-78.85	14.75	42.90	-52.36	-25.00	-27.36

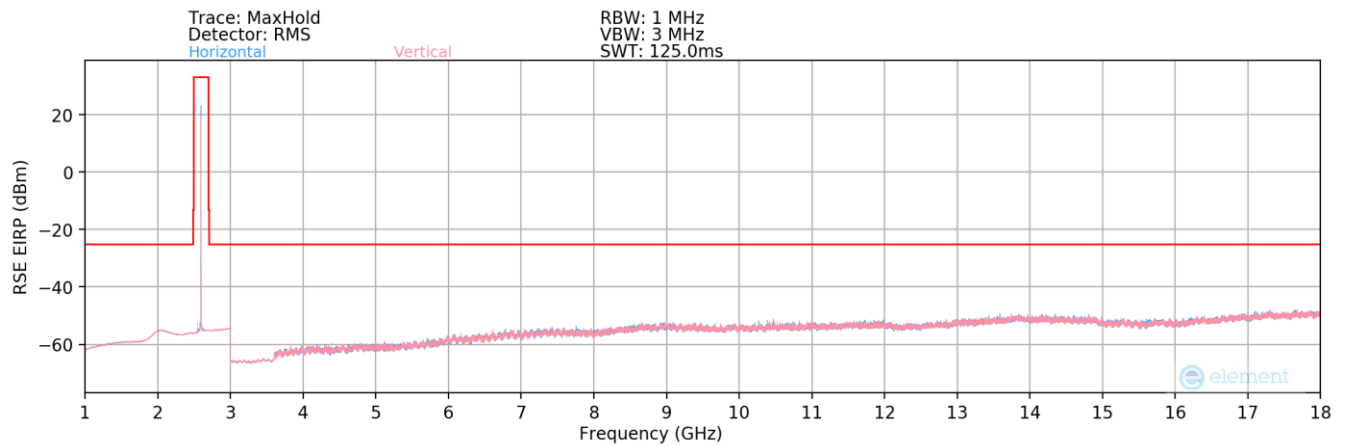
Table 7-37. Radiated Spurious Data (NR Band n41(PC2) – High Channel) – Default – Ant1

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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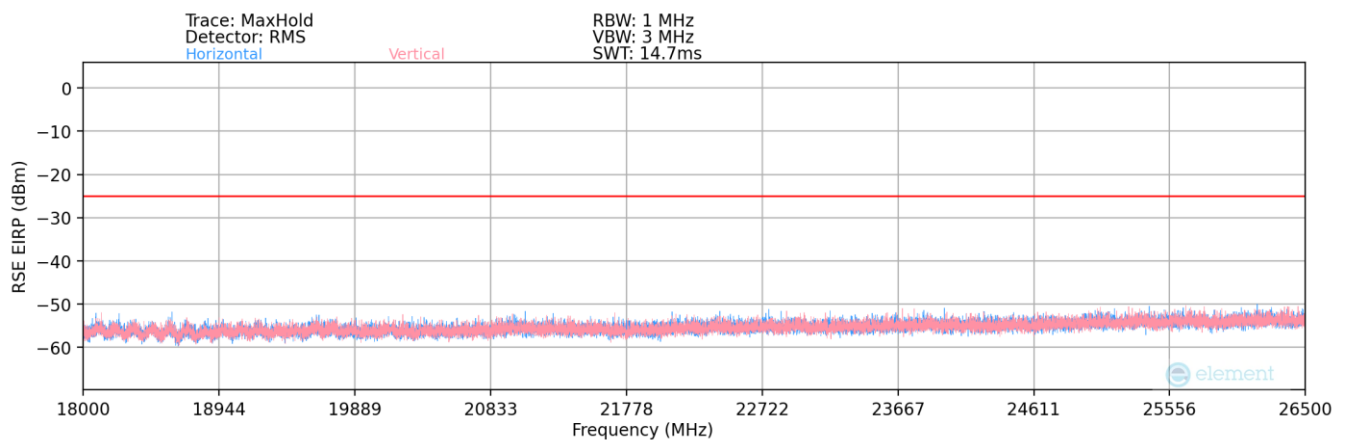
NR Band n41(PC2) – Switch – Ant1



Plot 7-153. Radiated Spurious Plot (NR Band n41(PC2) – Switch – Ant1)



Plot 7-154. Radiated Spurious Plot (NR Band n41(PC2) – Switch – Ant1)



Plot 7-155. Radiated Spurious Plot NR Band n41(PC2) – Switch – Ant1

FCC ID: A3LSMS948B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
520.00	V	-	-	-85.79	26.09	47.30	-50.11	-25.00	-25.11
650.00	V	-	-	-85.39	28.08	49.69	-47.71	-25.00	-22.71
730.00	V	-	-	-86.10	29.20	50.10	-47.30	-25.00	-22.30

Table 7-38. Radiated Spurious Data (NR Band n41(PC2) – Switch – Ant1

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

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]
5092.02	V	379	162	-73.73	3.17	36.44	-58.82	-25.00	-33.82
7638.03	V	282	34	-75.13	9.72	41.59	-53.67	-25.00	-28.67
10184.04	V	-	-	-78.15	12.49	41.34	-53.92	-25.00	-28.92
12730.05	V	-	-	-78.91	13.59	41.68	-53.57	-25.00	-28.57
15276.06	V	-	-	-78.98	14.37	42.39	-52.87	-25.00	-27.87

Table 7-39. Radiated Spurious Data (NR Band n41(PC2) – Low Channel) – Switch – Ant1

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
5185.98	V	327	27	-74.53	3.36	35.83	-59.42	-25.00	-34.42
7778.97	V	-	-	-75.56	8.63	40.07	-55.19	-25.00	-30.19
10371.96	V	-	-	-78.42	12.21	40.79	-54.46	-25.00	-29.46
12964.95	V	-	-	-78.82	14.39	42.57	-52.69	-25.00	-27.69

Table 7-40. Radiated Spurious Data (NR Band n41(PC2) – Mid Channel) – Switch – Ant1

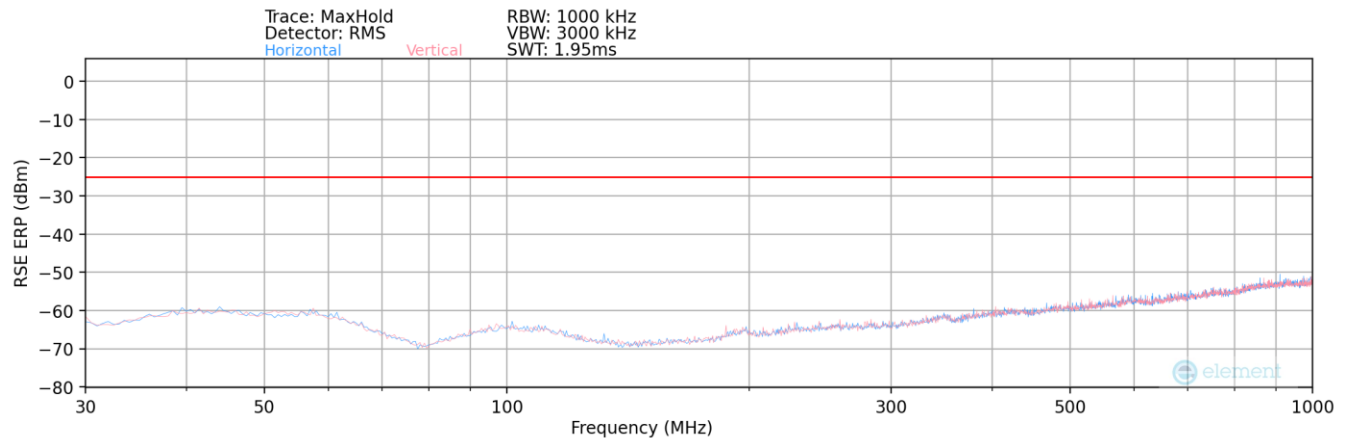
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

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]
5280.00	V	-	-	-74.63	3.28	35.65	-59.61	-25.00	-34.61
7920.00	V	266	155	-74.35	9.67	42.32	-52.94	-25.00	-27.94
10560.00	V	226	21	-74.57	12.67	45.10	-50.15	-25.00	-25.15
13200.00	V	-	-	-79.26	14.94	42.68	-52.58	-25.00	-27.58
15840.00	V	-	-	-79.60	14.75	42.15	-53.11	-25.00	-28.11

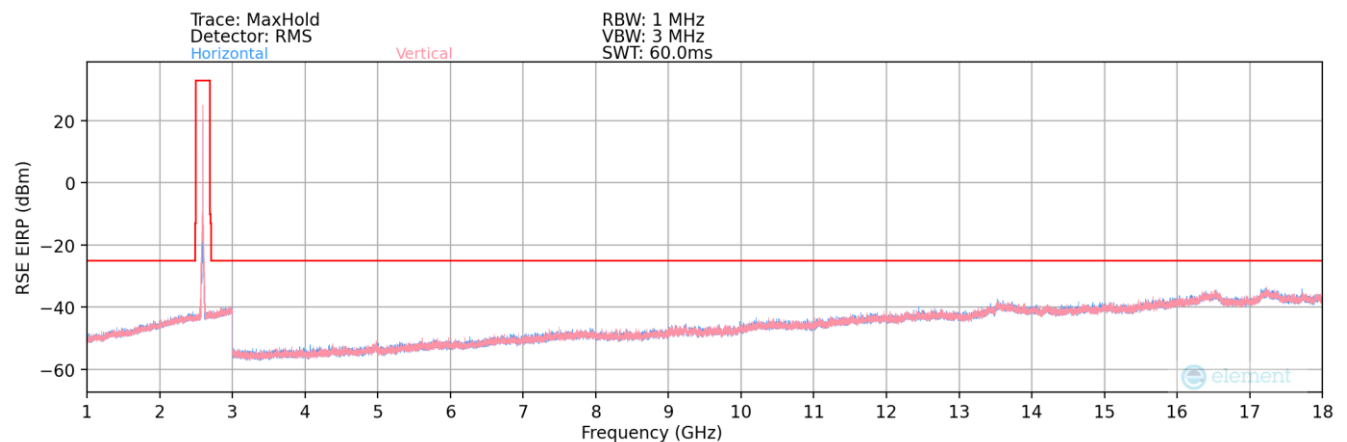
Table 7-41. Radiated Spurious Data (NR Band n41(PC2) – High Channel) – Switch – Ant1

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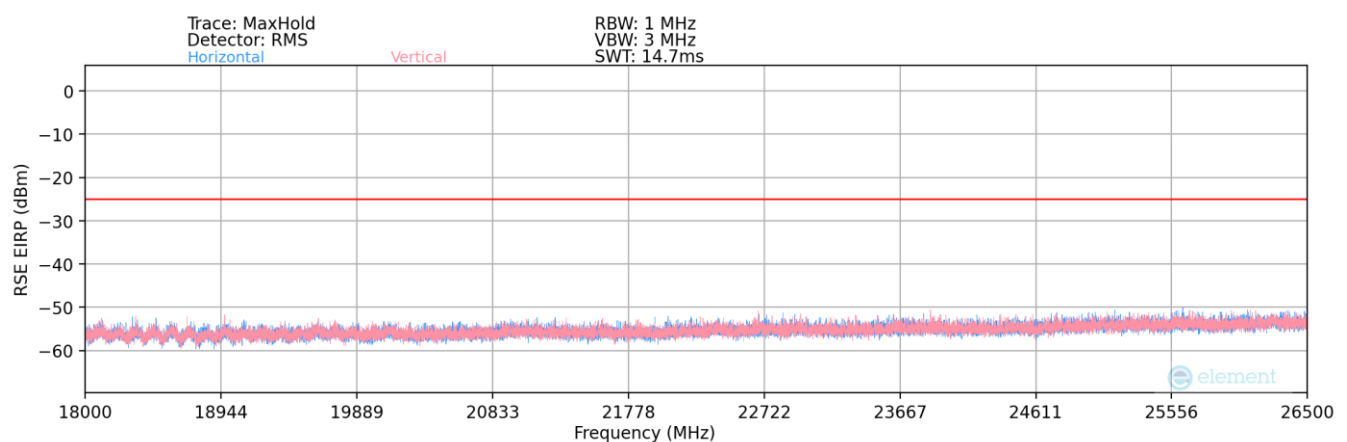
LTE Band 41(PC2) – Ant2



Plot 7-156. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant2



Plot 7-157. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant2



Plot 7-158. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant2

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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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
360.00	H	262	218	-75.62	-9.90	21.48	-75.93	-25.00	-50.93
600.00	H	296	321	-78.93	-4.29	23.78	-73.63	-25.00	-48.63

Table 7-42. Radiated Spurious Data (LTE Band 41(PC2)) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
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]
5020.00	H	278	88	-70.65	9.93	46.28	-48.98	-25.00	-23.98
7530.00	H	-	-	-72.04	15.50	50.46	-44.80	-25.00	-19.80
10040.00	H	-	-	-72.71	18.84	53.13	-42.13	-25.00	-17.13
12550.00	H	-	-	-73.80	23.35	56.55	-38.71	-25.00	-13.71

Table 7-43. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel) – Ant2

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	H	194	59	-69.91	10.38	47.47	-47.79	-25.00	-22.79
7779.00	H	228	48	-69.87	15.44	52.57	-42.68	-25.00	-17.68
10372.00	H	-	-	-71.16	19.53	55.37	-39.89	-25.00	-14.89
12965.00	H	-	-	-71.86	24.45	59.59	-35.67	-25.00	-10.67
15558.00	H	-	-	-72.32	28.35	63.03	-32.23	-25.00	-7.23

Table 7-44. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel) – Ant2

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	H	274	66	-69.45	10.79	48.34	-46.92	-25.00	-21.92
8040.00	H	211	344	-71.60	16.08	51.48	-43.78	-25.00	-18.78
10720.00	H	173	81	-69.80	20.23	57.43	-37.82	-25.00	-12.82
13400.00	H	-	-	-74.05	24.88	57.83	-37.42	-25.00	-12.42
16080.00	H	-	-	-74.63	28.30	60.67	-34.59	-25.00	-9.59
18760.00	H	-	-	-50.32	1.15	57.82	-37.44	-25.00	-12.44

Table 7-45. Radiated Spurious Data (LTE Band 41(PC2) – High Channel) – Ant2

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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

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

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

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

Test Procedure Used

ANSI C63.26:2015 – Section 5.6

Test Settings

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

Test Setup

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

Test Notes

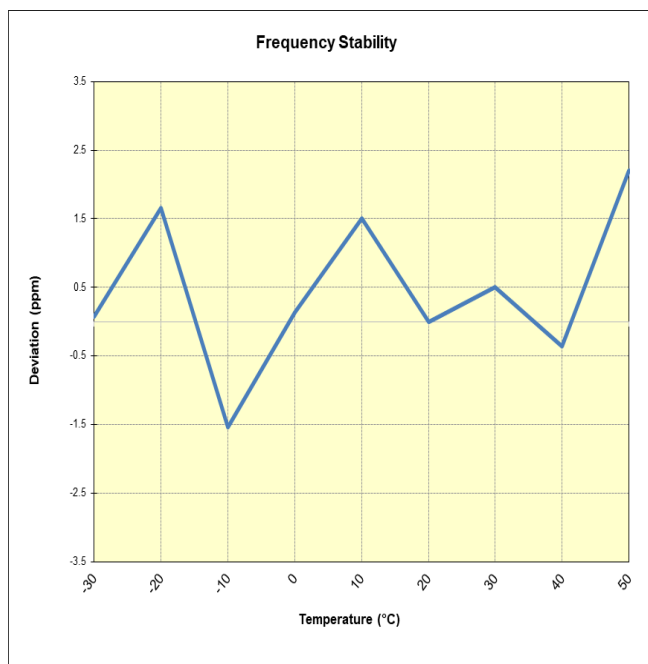
None

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LTE Band 41

<table><tr><td>Operating Frequency (Hz):</td><td colspan="5">2,593,000,000</td></tr><tr><td>Ref. Voltage (VDC):</td><td colspan="5">4.464</td></tr></table>						Operating Frequency (Hz):	2,593,000,000					Ref. Voltage (VDC):	4.464				
Operating Frequency (Hz):	2,593,000,000																
Ref. Voltage (VDC):	4.464																
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)												
100 %	4.464	- 30	2,593,096,715	197	0.0000076												
		- 20	2,593,100,830	4,312	0.0001663												
		- 10	2,593,092,546	-3,972	-0.0001532												
		0	2,593,096,868	350	0.0000135												
		+ 10	2,593,100,436	3,918	0.0001511												
		+ 20 (Ref)	2,593,096,518	0	0.0000000												
		+ 30	2,593,097,812	1,294	0.0000499												
		+ 40	2,593,095,603	-915	-0.0000353												
		+ 50	2,593,102,248	5,730	0.0002210												
Battery Endpoint	3.682	+ 20	2,593,102,346	5,828	0.0002248												

Table 7-46. LTE Band 41(PC3) Frequency Stability Data



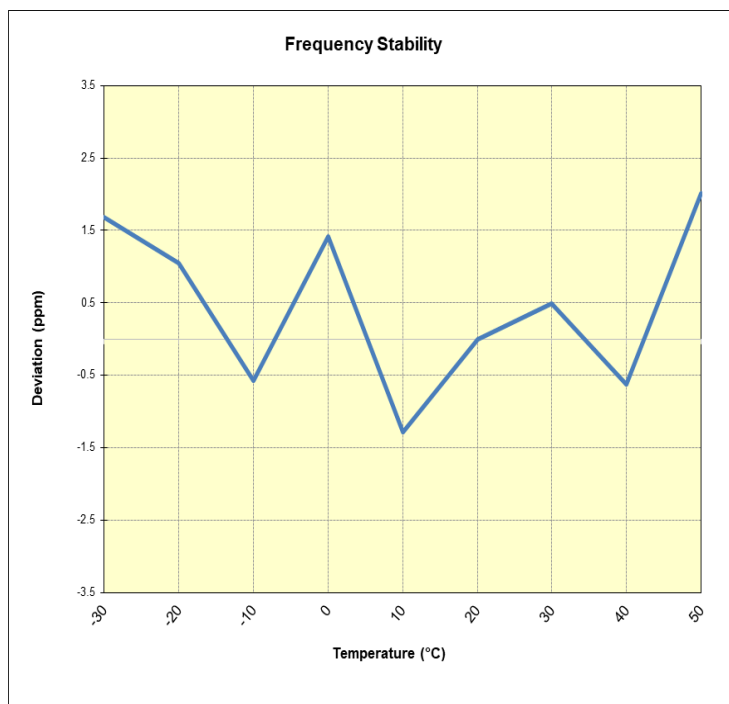
Plot 7-159. LTE Band 41(PC3) Frequency Stability Chart

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NR Band n41

<table><tr><td>Operating Frequency (Hz):</td><td>2,593,000,000</td></tr><tr><td>Ref. Voltage (VDC):</td><td>4.464</td></tr></table>						Operating Frequency (Hz):	2,593,000,000	Ref. Voltage (VDC):	4.464
Operating Frequency (Hz):	2,593,000,000								
Ref. Voltage (VDC):	4.464								
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)				
100 %	4.464	- 30	2,592,989,360	4,351	0.0001678				
		- 20	2,592,987,734	2,725	0.0001051				
		- 10	2,592,983,506	-1,503	-0.0000580				
		0	2,592,988,676	3,667	0.0001414				
		+ 10	2,592,981,674	-3,335	-0.0001286				
		+ 20 (Ref)	2,592,985,009	0	0.0000000				
		+ 30	2,592,986,272	1,263	0.0000487				
		+ 40	2,592,983,404	-1,605	-0.0000619				
		+ 50	2,592,990,237	5,228	0.0002016				
Battery Endpoint	3.682	+ 20	2,592,986,421	1,412	0.0000545				

Table 7-47. NR Band n41 Frequency Stability Data



Plot 7-160. NR Band n41 Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS948B** complies with all the requirements of Part 27 of the FCC rules. The data referenced from **FCC ID: A3LSMS948U** (Model SM-S948U) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMS948B**.

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9.0 APPENDIX A – DATA REFERENCING RESULTS

Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.26-2015.

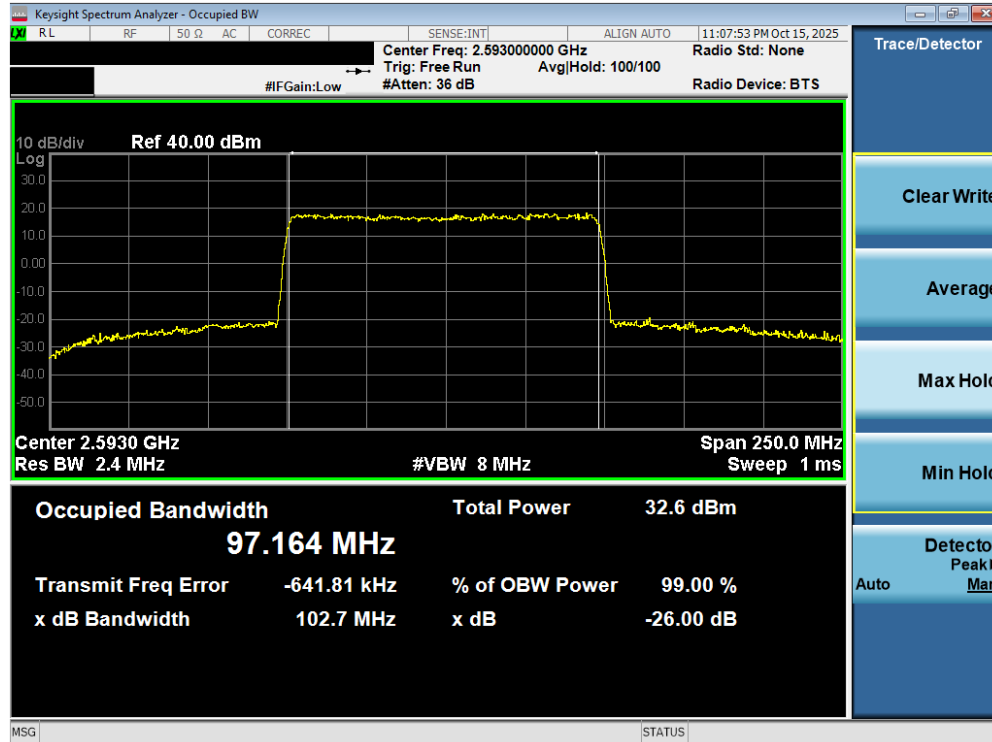
Notes

- Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Conducted Spot-Checks – SM-S948B/DS

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	π/2 BPSK	518598	2592.99	1 / 271	23.96

Table 9-1. Conducted Output Power Measurements (Spot-check) – NR Band n41



Plot 9-1. Occupied Bandwidth (Spot-check) - NR Band n41

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Radiated Spot-Checks – SM-S948B/DS

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	QPSK	2592.99	H	152	259	4.00	1 / 136	20.59	24.59	0.288	33.01	-8.42

Table 9-2. ERP Measurements (Spot-check) – NR Band n41

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

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]
7638.03	V	146	43	-72.14	24.40	59.26	-35.99	-25.00	-10.99

Table 9-3. Radiated Spurious Measurements (Spot-check) – NR Band n41

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-S948U	Variant Model: SM-S948B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
27	Conducted Output Power	Mid Ch. 518598, 100MHz, BPSK, Ant B	dBm	N/A	24.86	23.96	-0.90	1	PASS
	Occupied Bandwidth	Mid Ch. 518598, 100MHz, QPSK, Ant F	MHz	N/A	98.02	97.16	-0.86	N/A	PASS
	EIRP	Mid Ch. 518598, 100MHz, QPSK, Ant B	dBm	33.01	24.45	24.59	0.14	3	PASS
	RSE	Low Ch. 509202, 100MHz, QPSK, 7638MHz, Ant F	dBm	-25	-35.63	-35.99	-0.36	3	PASS

Table 9-4. Summary of Spot-checks – NR Band n41

Note: RSE spot-check was performed side by side.

- END OF TEST REPORT -

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