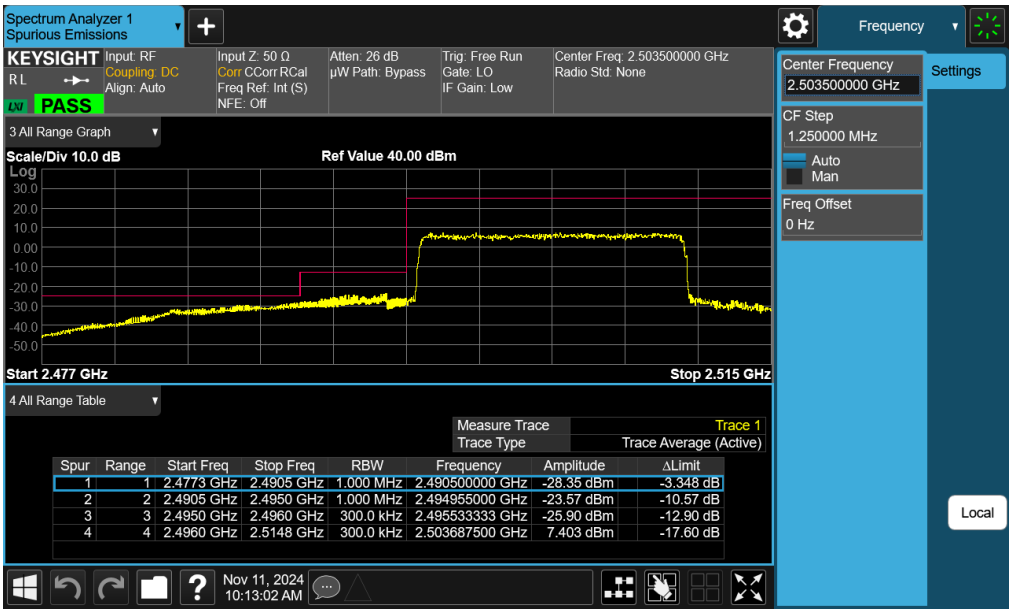
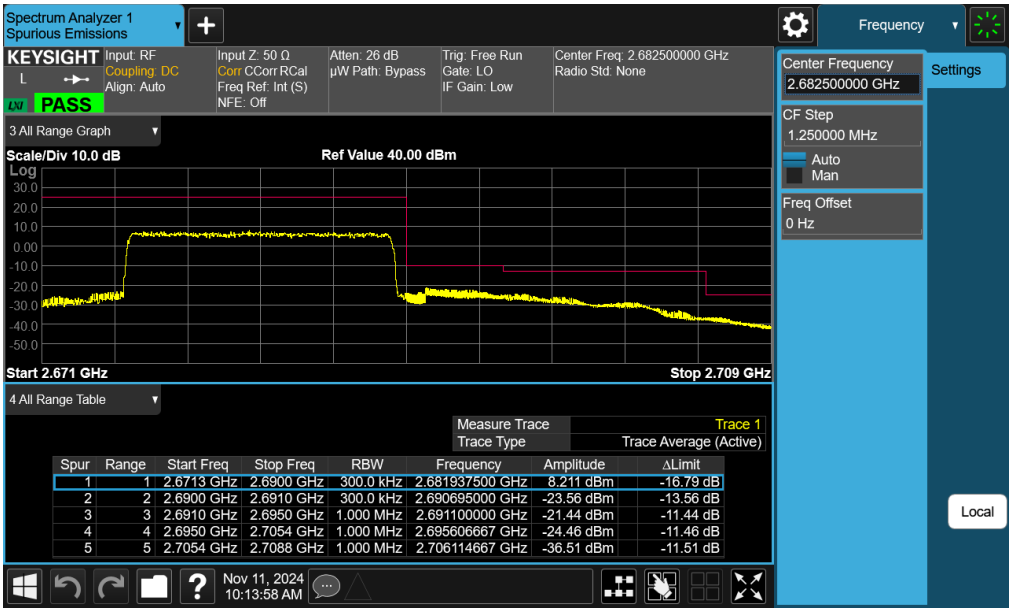
LTE Band 41(PC2) – Ant F

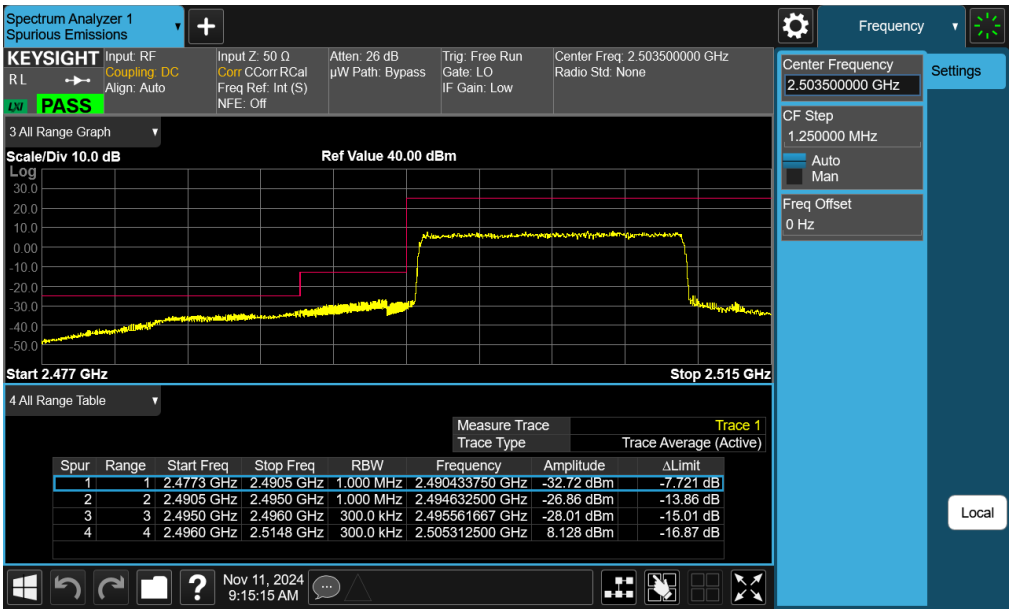


Plot 7-183. Lower ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant F)



Plot 7-184. Upper ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant F)

LTE Band 41(PC2) – Ant B



Plot 7-185. Lower ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant B)

Plot 7-186. Upper ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant B)

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	Band Edge	-27.67	-25	-2.67
		High	Band Edge	-25.45	-10	-15.45
	15MHz	Low	Band Edge	-26.59	-25	-1.59
		High	Band Edge	-22.35	-10	-12.35
	10MHz	Low	Band Edge	-26.87	-25	-1.87
		High	Band Edge	-23.53	-10	-13.53
	5MHz	Low	Band Edge	-20.65	-13	-7.65
		High	Band Edge	-21.79	-10	-11.79

Table 7-28. Conducted Band Edge Test Results – LTE – Ant F

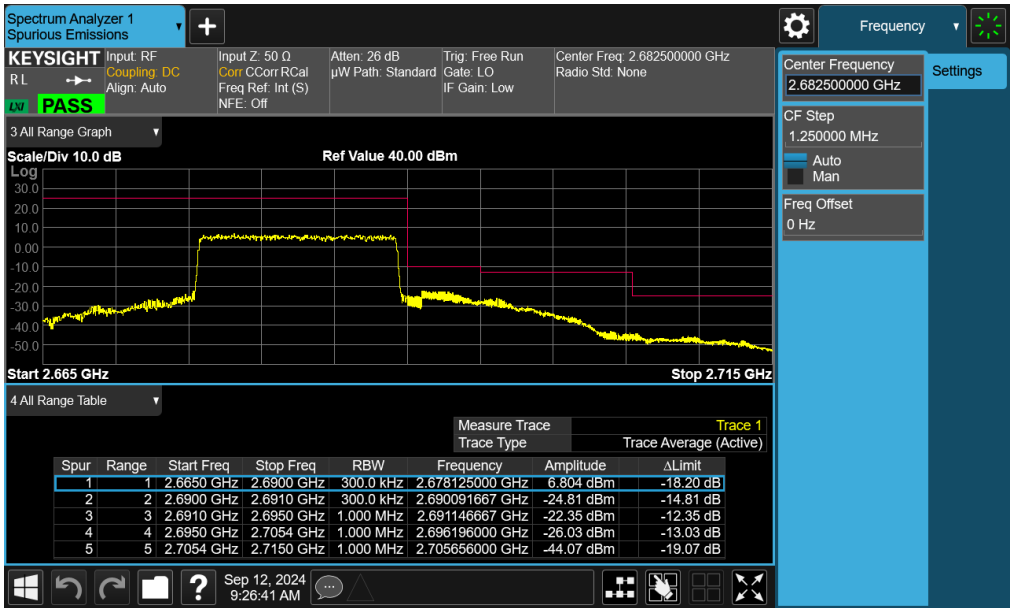
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	Band Edge	-31.06	-25	-6.06
		High	Band Edge	-28.00	-10	-18.00
	15MHz	Low	Band Edge	-30.15	-25	-5.15
		High	Band Edge	-25.37	-10	-15.37
	10MHz	Low	Band Edge	-30.98	-25	-5.98
		High	Band Edge	-26.94	-10	-16.94
	5MHz	Low	Band Edge	-26.66	-13	-13.66
		High	Band Edge	-26.50	-10	-16.50

Table 7-29. Conducted Band Edge Test Results – LTE – Ant B

LTE Band 41(PC3) – Ant F

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4773 GHz	2.4905 GHz	1.000 MHz	2.488843750 GHz	-26.59 dBm	-1.593 dB
2	2	2.4905 GHz	2.4950 GHz	1.000 MHz	2.494842500 GHz	-23.98 dBm	-10.98 dB
3	3	2.4950 GHz	2.4960 GHz	300.0 kHz	2.495855000 GHz	-26.23 dBm	-13.23 dB
4	4	2.4960 GHz	2.5148 GHz	300.0 kHz	2.508187500 GHz	6.818 dBm	-18.18 dB

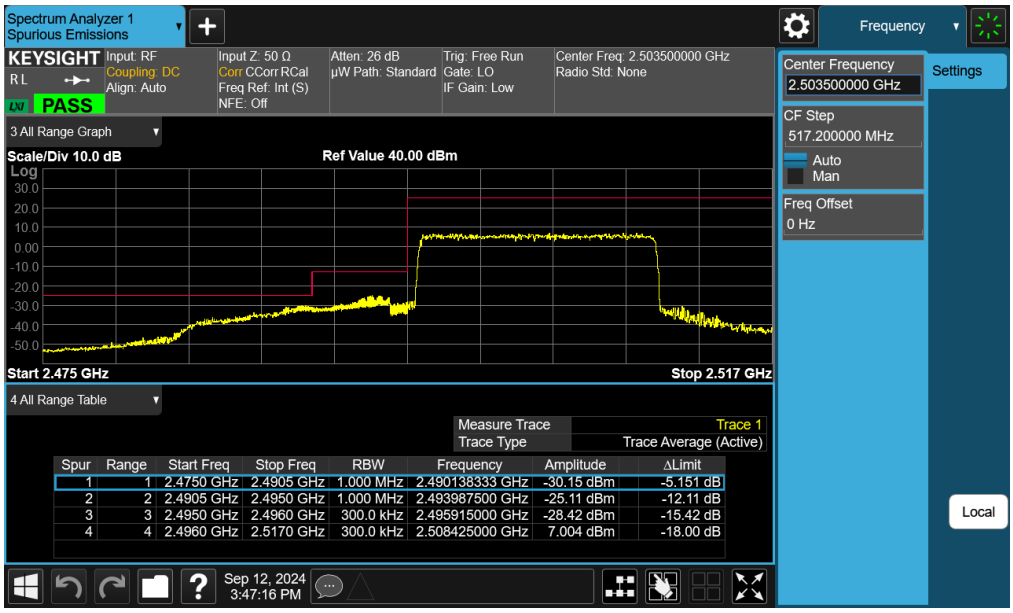
Plot 7-187. Lower ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB - Ant F)



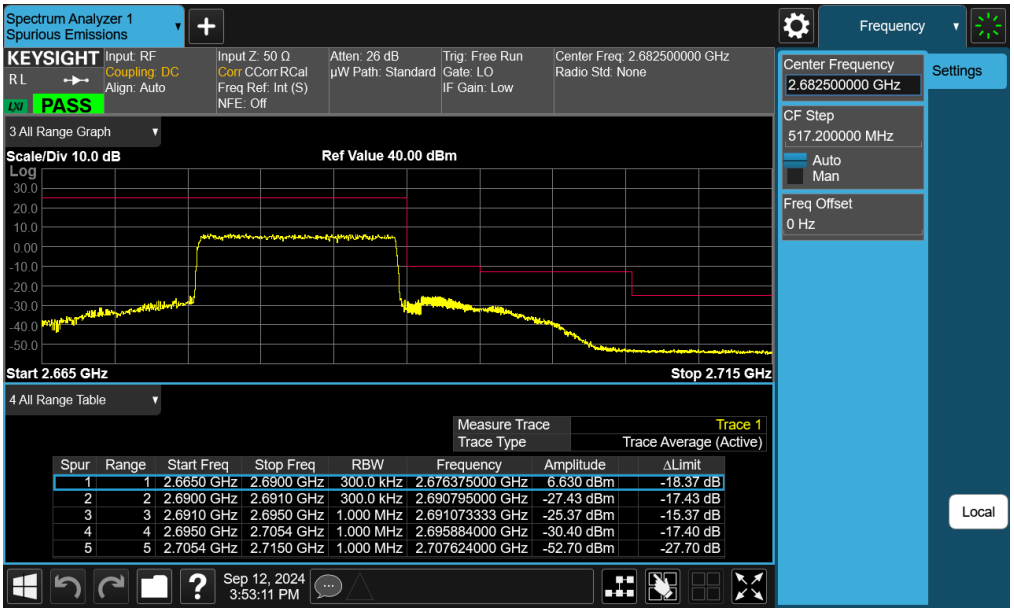
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.6650 GHz	2.6900 GHz	300.0 kHz	2.678125000 GHz	6.804 dBm	-18.20 dB
2	2	2.6900 GHz	2.6910 GHz	300.0 kHz	2.690091667 GHz	-24.81 dBm	-14.81 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691146667 GHz	-22.35 dBm	-12.35 dB
4	4	2.6950 GHz	2.7054 GHz	1.000 MHz	2.696196000 GHz	-26.03 dBm	-13.03 dB
5	5	2.7054 GHz	2.7150 GHz	1.000 MHz	2.705656000 GHz	-44.07 dBm	-19.07 dB

Plot 7-188. Upper ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB - Ant F)

LTE Band 41(PC3) – Ant B



Plot 7-189. Lower ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB - Ant B)



Plot 7-190. Upper ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB - Ant B)

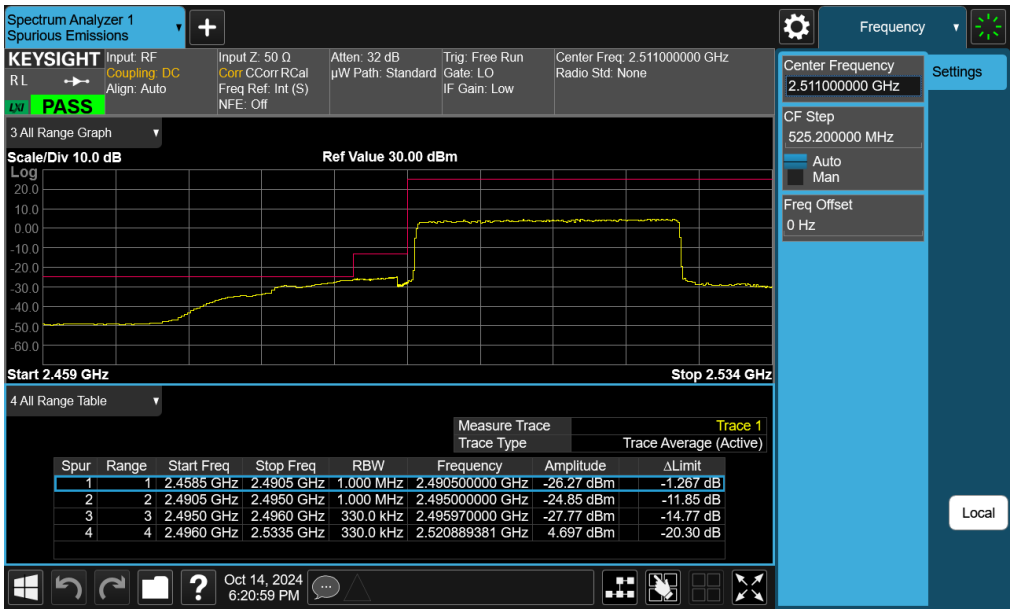
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	Band Edge	-28.28	-25	-3.28
		High	Band Edge	-24.01	-10	-14.01
	90MHz	Low	Band Edge	-28.23	-25	-3.23
		High	Band Edge	-24.36	-10	-14.36
	80MHz	Low	Band Edge	-30.44	-25	-5.44
		High	Band Edge	-24.31	-10	-14.31
	70MHz	Low	Band Edge	-26.58	-25	-1.58
		High	Band Edge	-25.32	-10	-15.32
	60MHz	Low	Band Edge	-27.86	-25	-2.86
		High	Band Edge	-20.83	-10	-10.83
	50MHz	Low	Band Edge	-28.70	-25	-3.70
		High	Band Edge	-23.11	-10	-13.11
	45MHz	Low	Band Edge	-27.11	-25	-2.11
		High	Band Edge	-23.45	-10	-13.45
	40MHz	Low	Band Edge	-28.49	-25	-3.49
		High	Band Edge	-23.51	-10	-13.51
	35MHz	Low	Band Edge	-26.82	-25	-1.82
		High	Band Edge	-22.67	-10	-12.67
	30MHz	Low	Band Edge	-26.27	-25	-1.27
		High	Band Edge	-22.03	-10	-12.03
	25MHz	Low	Band Edge	-27.24	-25	-2.24
		High	Band Edge	-37.44	-25	-12.44
	20MHz	Low	Band Edge	-26.92	-25	-1.92
		High	Band Edge	-21.96	-10	-11.96
	15MHz	Low	Band Edge	-26.78	-25	-1.78
		High	Band Edge	-23.35	-10	-13.35
	10MHz	Low	Band Edge	-29.64	-25	-4.64
		High	Band Edge	-21.47	-10	-11.47

Table 7-30. Conducted Band Edge Test Results – NR – Ant F

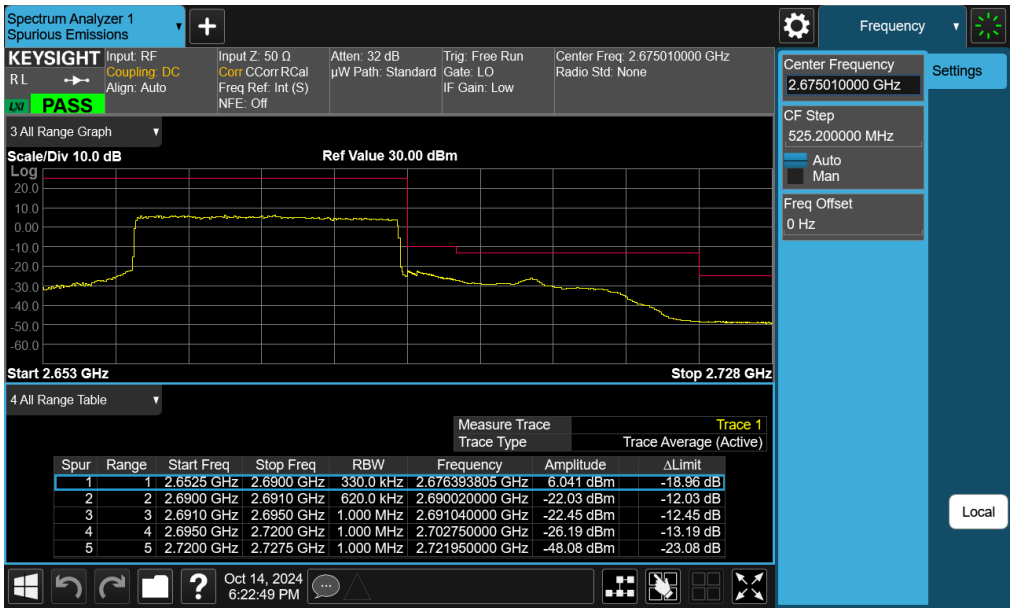
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	Band Edge	-37.21	-25	-12.21
		High	Band Edge	-28.77	-10	-18.77
	90MHz	Low	Band Edge	-36.13	-25	-11.13
		High	Band Edge	-29.33	-10	-19.33
	80MHz	Low	Band Edge	-36.15	-25	-11.15
		High	Band Edge	-31.64	-10	-21.64
	70MHz	Low	Band Edge	-33.23	-25	-8.23
		High	Band Edge	-48.47	-25	-23.47
	60MHz	Low	Band Edge	-33.74	-25	-8.74
		High	Band Edge	-22.89	-10	-12.89
	50MHz	Low	Band Edge	-35.52	-25	-10.52
		High	Band Edge	-45.43	-25	-20.43
	45MHz	Low	Band Edge	-37.76	-25	-12.76
		High	Band Edge	-43.55	-25	-18.55
	40MHz	Low	Band Edge	-37.95	-25	-12.95
		High	Band Edge	-44.61	-25	-19.61
	35MHz	Low	Band Edge	-36.25	-25	-11.25
		High	Band Edge	-42.22	-25	-17.22
	30MHz	Low	Band Edge	-36.30	-25	-11.30
		High	Band Edge	-43.60	-25	-18.60
	25MHz	Low	Band Edge	-36.22	-25	-11.22
		High	Band Edge	-42.55	-25	-17.55
	20MHz	Low	Band Edge	-35.92	-25	-10.92
		High	Band Edge	-40.96	-25	-15.96
	15MHz	Low	Band Edge	-38.15	-25	-13.15
		High	Band Edge	-41.38	-25	-16.38
	10MHz	Low	Band Edge	-37.34	-25	-12.34
		High	Band Edge	-30.46	-10	-20.46

Table 7-31. Conducted Band Edge Test Results – NR Band n41 – Ant B - Switching

NR Band n41 – Ant F – Default

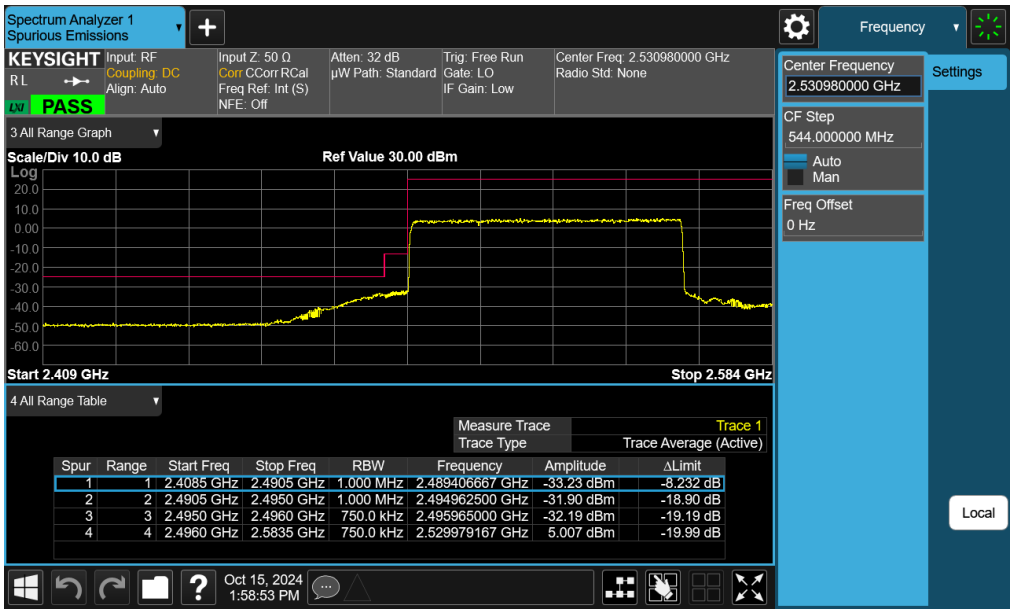


Plot 7-191. Lower Band Edge Plot (NR Band n41 - 30MHz DFT-s-OFDM-QPSK – Full RB - Ant F)

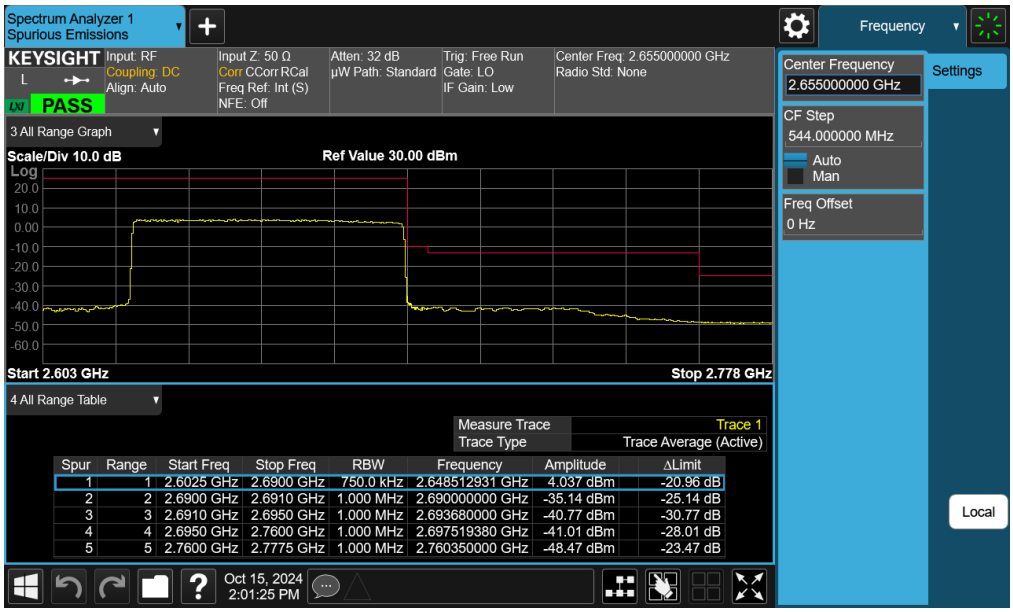


Plot 7-192. Upper Band Edge Plot (NR Band n41 - 30MHz DFT-s-OFDM-QPSK – Full RB - Ant F)

NR Band n41 – Ant B – Switching



Plot 7-193. Lower Band Edge Plot (NR Band n41 - 70MHz DFT-s-OFDM-BPSK – Full RB - Ant B)



Plot 7-194. Upper Band Edge Plot (NR Band n41 - 70MHz DFT-s-OFDM-BPSK – Full RB - Ant B)

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	Band Edge	-26.45	-25	-1.45
		High	Band Edge	-26.15	-10	-16.15

Table 7-32. Conducted Band Edge Test Results – NR – Ant B

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	Band Edge	-29.75	-25	-4.75
		High	Band Edge	-27.60	-10	-17.60

Table 7-33. Conducted Band Edge Test Results – NR Band n41 – Ant F – Switching

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	Band Edge	-33.34	-25	-8.34
		High	Band Edge	-24.77	-10	-14.77

Table 7-34. Conducted Band Edge Test Results – NR Band n41 – Ant E – Default

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	Band Edge	-32.45	-25	-7.45
		High	Band Edge	-31.03	-10	-21.03

Table 7-35. Conducted Band Edge Test Results – NR Band n41 – Ant D – Switching

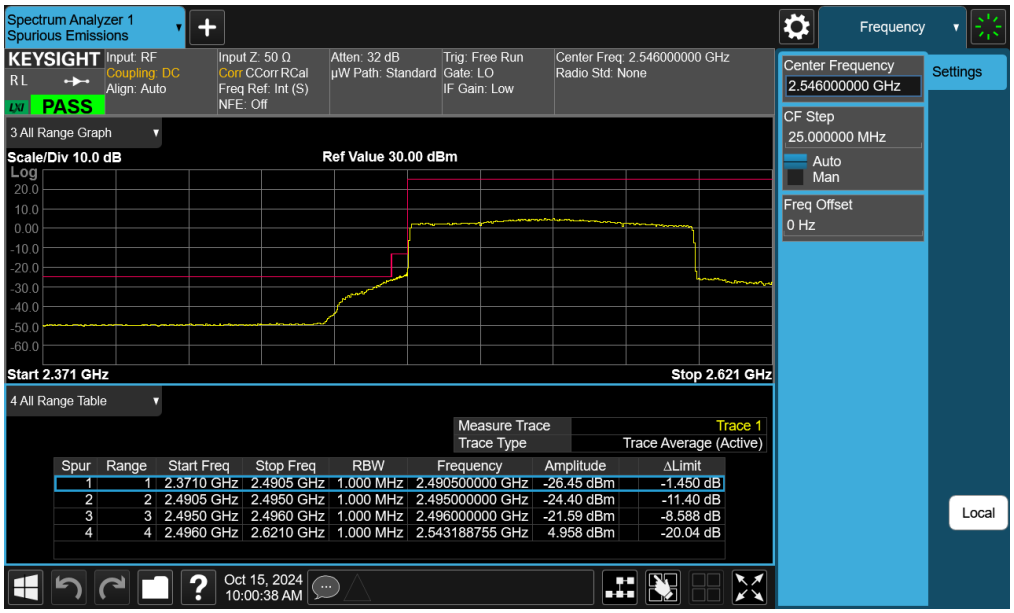
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	Band Edge	-30.58	-25	-5.58
		High	Band Edge	-32.15	-10	-22.15

Table 7-36. Conducted Band Edge Test Results – NR Band n41 – Ant D – Default

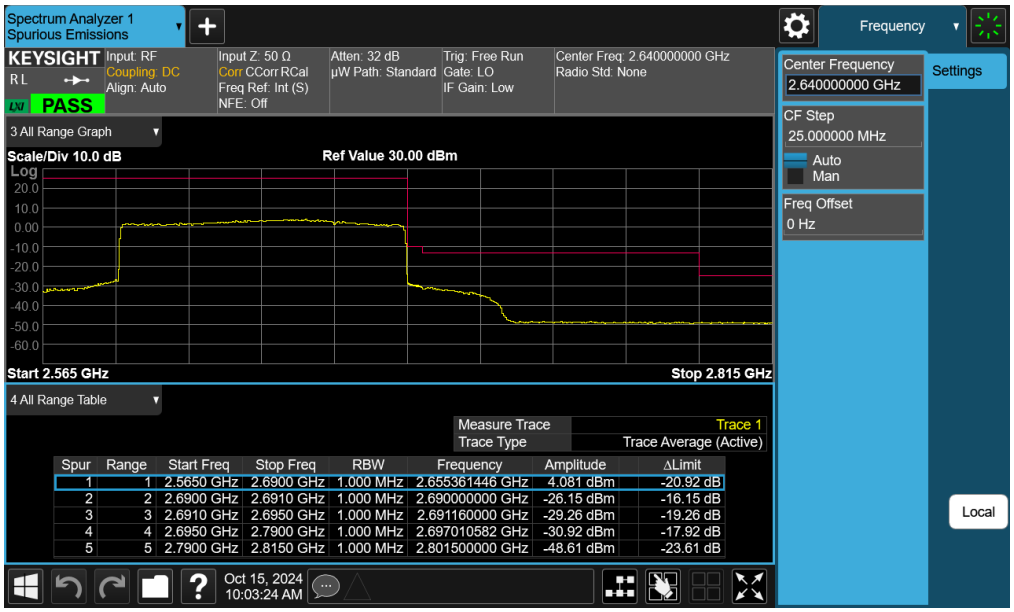
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC3	100MHz	Low	Band Edge	-33.25	-25	-8.25
		High	Band Edge	-31.48	-10	-21.48

Table 7-37. Conducted Band Edge Test Results – NR Band n41 – Ant E - Switching

NR Band n41 – Ant B – Default

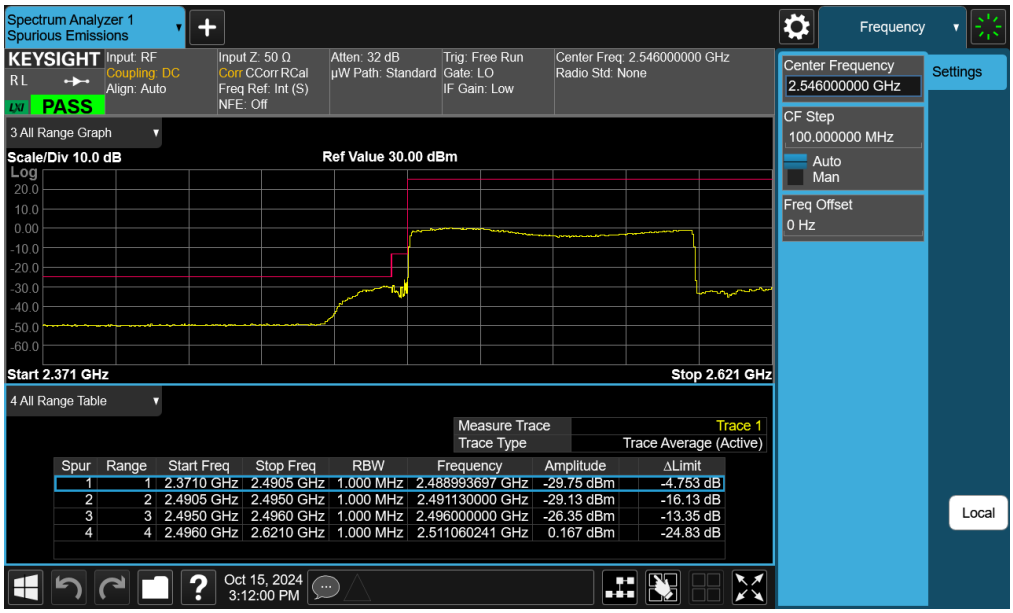


Plot 7-195. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-BPSK – Full RB - Ant B)

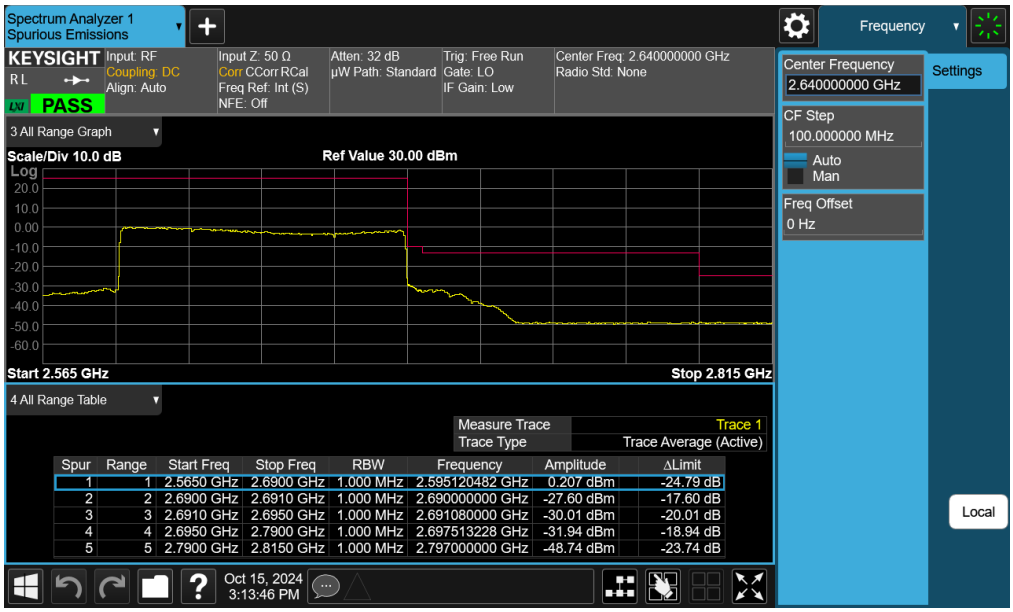


Plot 7-196. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-BPSK – Full RB - Ant B)

NR Band n41 – Ant F – Switching

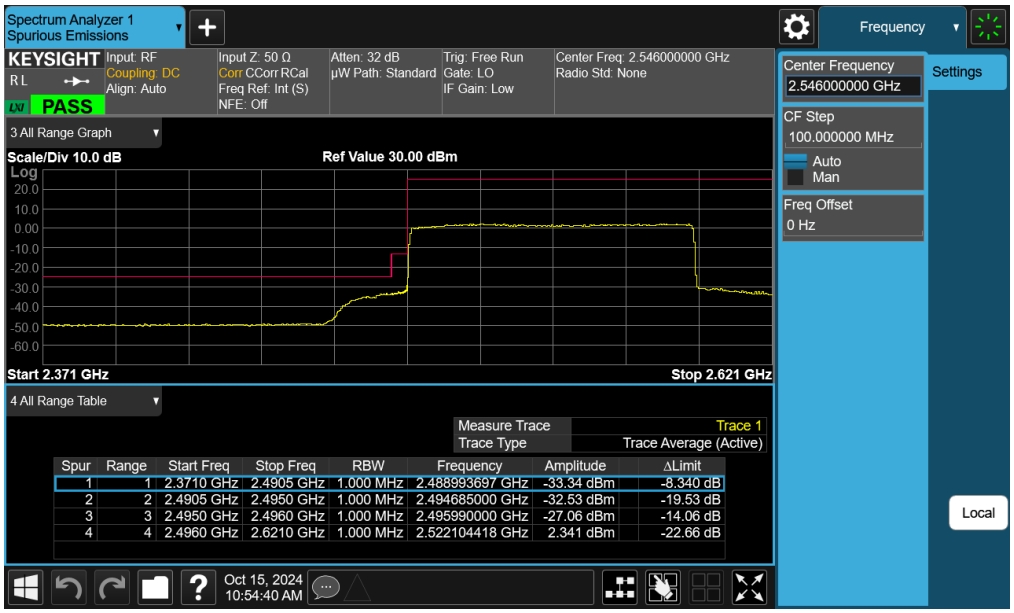


Plot 7-197. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-QPSK – Full RB - Ant F)

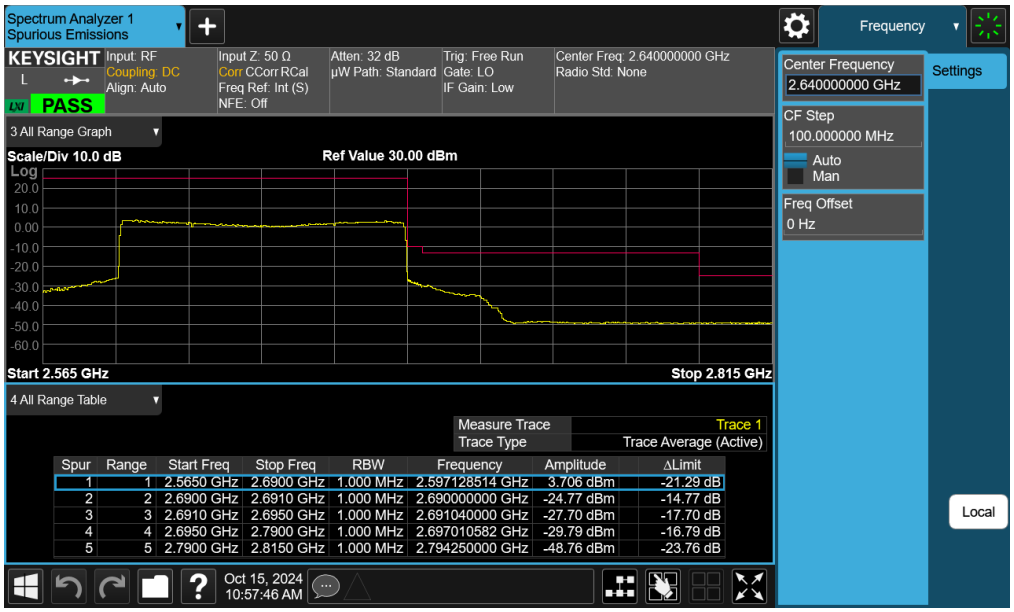


Plot 7-198. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-BPSK – Full RB - Ant F)

NR Band n41 – Ant E – Default

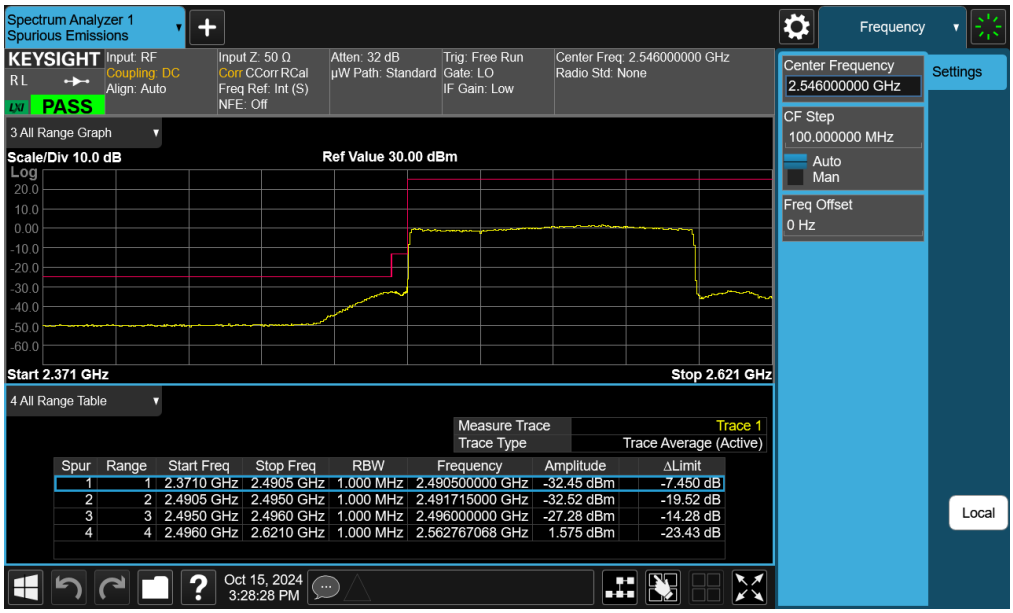


Plot 7-199. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-QPSK – Full RB - Ant E)

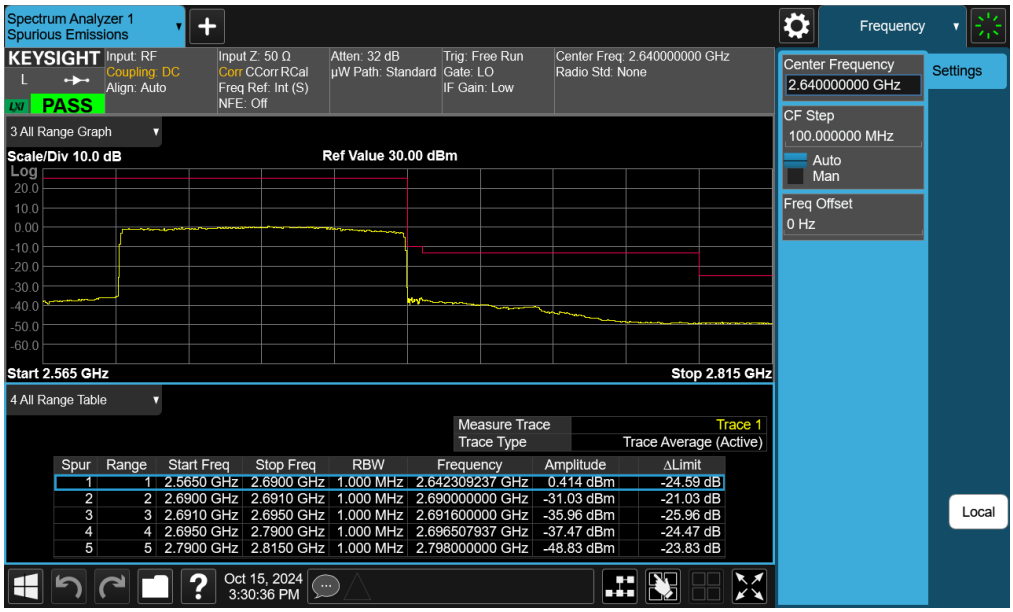


Plot 7-200. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-BPSK – Full RB - Ant E)

NR Band n41 – Ant D – Switching

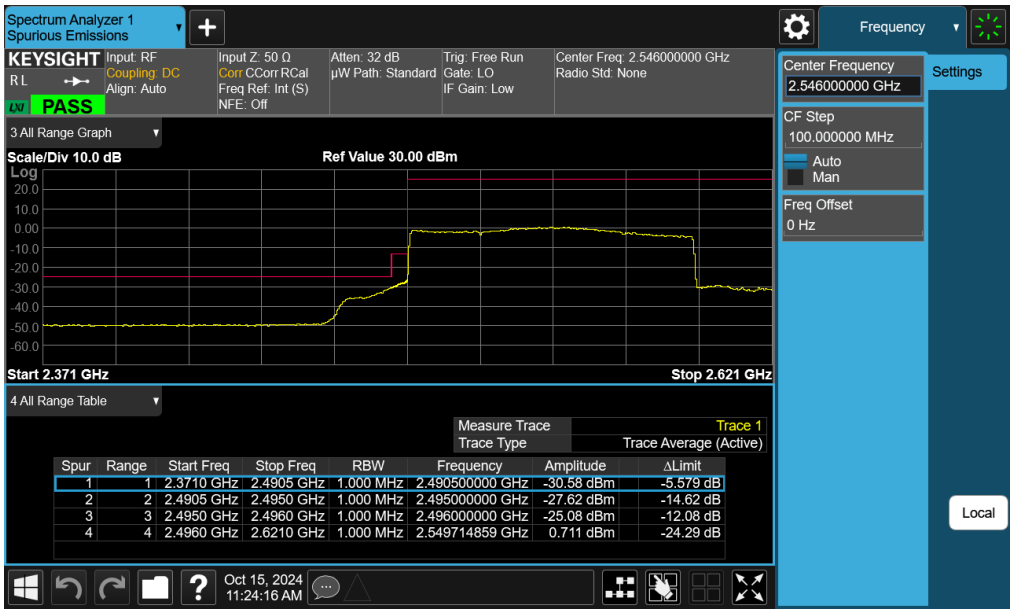


Plot 7-201. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-QPSK – Full RB - Ant D)

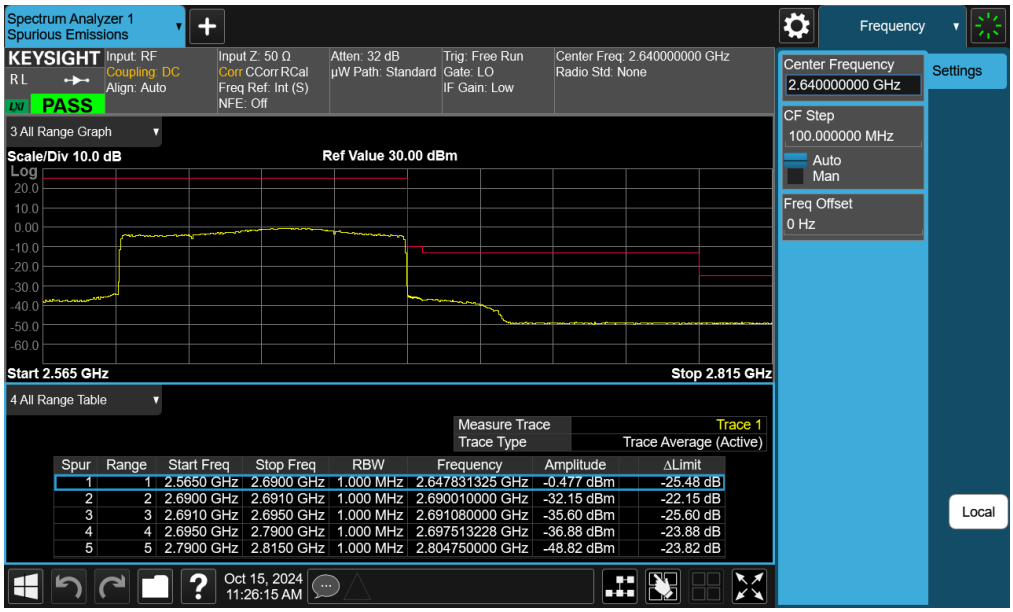


Plot 7-202. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-QPSK – Full RB - Ant D)

NR Band n41 – Ant D – Default

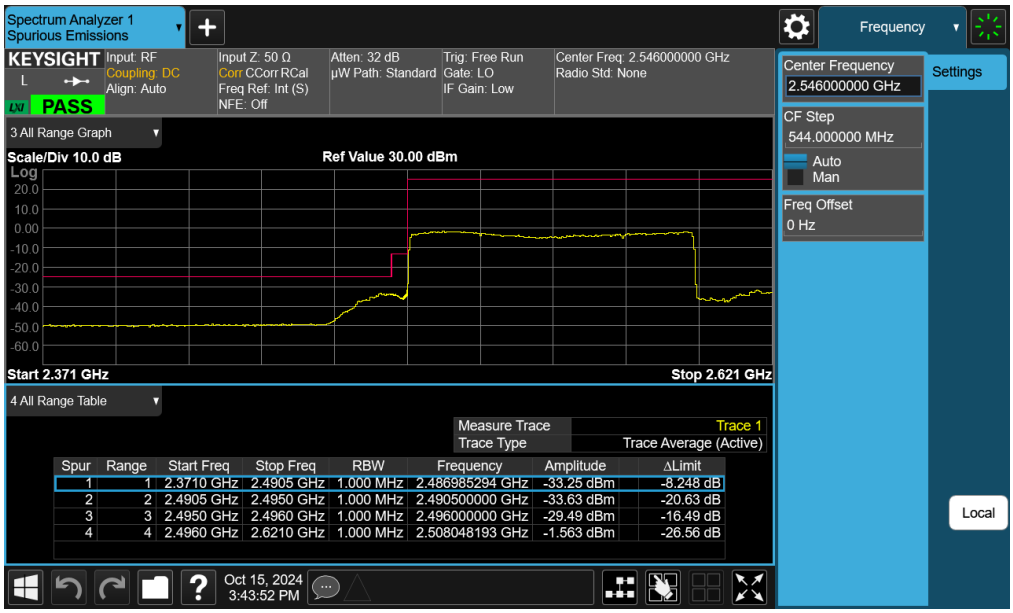


Plot 7-203. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-BPSK – Full RB - Ant D)

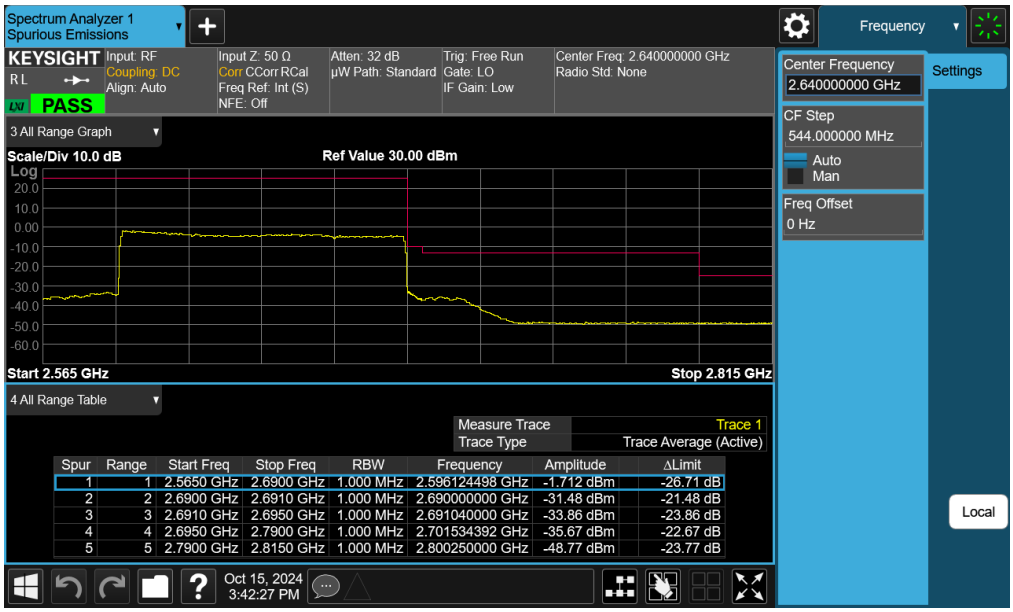


Plot 7-204. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-BPSK – Full RB - Ant D)

NR Band n41 – Ant E – Switching



Plot 7-205. Lower Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-BPSK – Full RB - Ant E)



Plot 7-206. Upper Band Edge Plot (NR Band n41 - 100MHz DFT-s-OFDM-BPSK – Full RB - Ant E)

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 ≥ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points ≥ 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". 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.

Test Setup

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

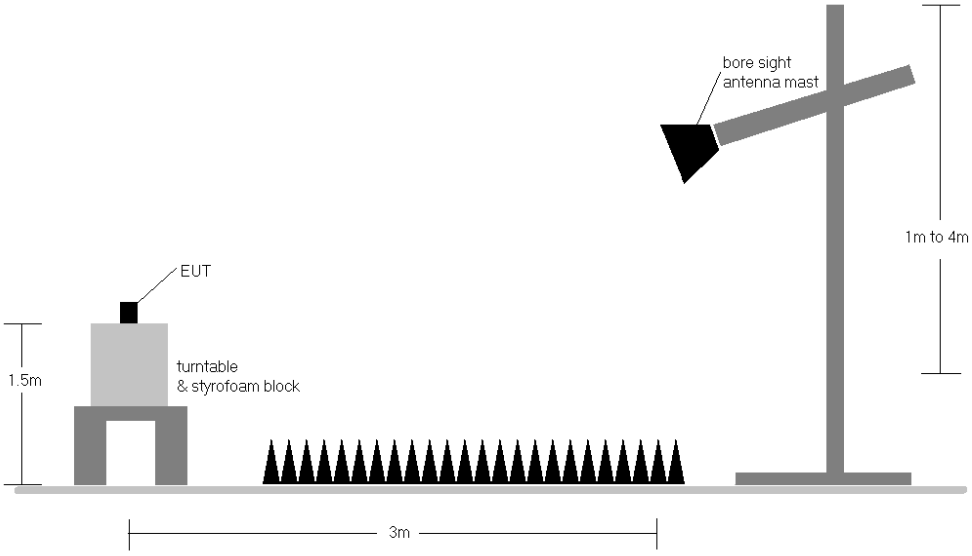


Figure 7-5. Radiated Test Setup >1GHz

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.

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	119	325	9.40	1 / 99	13.72	23.12	0.205	33.01	-9.89
	QPSK	2593.0	H	136	318	9.53	1 / 50	14.17	**23.70**	0.234	33.01	-9.32
	QPSK	2680.0	H	118	321	9.65	1 / 50	13.31	22.96	0.198	33.01	-10.05
	16-QAM	2593.0	H	136	318	9.53	1 / 50	13.19	22.72	0.187	33.01	-10.30
15 MHz	QPSK	2503.5	H	119	325	9.39	1 / 74	13.63	23.02	0.201	33.01	-9.99
	QPSK	2593.0	H	136	318	9.53	1 / 74	14.40	**23.92**	0.247	33.01	-9.09
	QPSK	2682.5	H	118	321	9.65	1 / 0	13.47	23.13	0.205	33.01	-9.88
	16-QAM	2593.0	H	136	318	9.53	1 / 74	13.29	22.81	0.191	33.01	-10.20
10 MHz	QPSK	2501.0	H	119	325	9.39	1 / 49	13.43	22.82	0.192	33.01	-10.19
	QPSK	2593.0	H	136	318	9.53	1 / 0	14.53	**24.05**	0.254	33.01	-8.96
	QPSK	2685.0	H	118	321	9.66	1 / 0	13.12	22.77	0.189	33.01	-10.24
	16-QAM	2593.0	H	136	318	9.53	1 / 0	13.33	22.85	0.193	33.01	-10.16
5 MHz	QPSK	2498.5	H	119	325	9.39	1 / 24	13.51	22.90	0.195	33.01	-10.11
	QPSK	2593.0	H	136	318	9.53	1 / 24	14.42	**23.94**	0.248	33.01	-9.07
	QPSK	2687.5	H	118	321	9.66	1 / 0	13.08	22.73	0.188	33.01	-10.28
	16-QAM	2593.0	H	136	318	9.53	1 / 24	13.30	22.83	0.192	33.01	-10.18
20 MHz	Opposite Pol.	2593.0	V	134	313	9.53	1 / 50	12.29	21.82	0.152	33.01	-11.20
	WCP	2593.0	H	139	318	9.53	1 / 50	13.60	23.13	0.205	33.01	-9.89

Table 7-38. EIRP Data (LTE Band 41(PC2) – Ant F)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	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	X	117	228	9.40	1 / 99	11.60	21.00	0.126	33.01	-12.01
	QPSK	2593.0	H	X	120	231	9.53	1 / 0	11.98	**21.51**	0.141	33.01	-11.51
	QPSK	2680.0	H	X	131	229	9.65	1 / 50	11.52	21.17	0.131	33.01	-11.84
	16-QAM	2593.0	H	X	120	231	9.53	1 / 0	11.22	20.75	0.119	33.01	-12.27
15 MHz	QPSK	2503.5	H	X	117	228	9.39	1 / 0	11.42	20.81	0.121	33.01	-12.20
	QPSK	2593.0	H	X	120	231	9.53	1 / 37	12.07	**21.59**	0.144	33.01	-11.42
	QPSK	2682.5	H	X	131	229	9.65	1 / 37	11.31	20.96	0.125	33.01	-12.05
	16-QAM	2593.0	H	X	120	231	9.53	1 / 37	11.00	20.52	0.113	33.01	-12.49
10 MHz	QPSK	2501.0	H	X	117	228	9.39	1 / 49	11.92	21.31	0.135	33.01	-11.70
	QPSK	2593.0	H	X	120	231	9.53	1 / 25	12.20	**21.72**	0.149	33.01	-11.29
	QPSK	2685.0	H	X	131	229	9.66	1 / 49	11.57	21.23	0.133	33.01	-11.78
	16-QAM	2593.0	H	X	120	231	9.53	1 / 25	11.21	20.74	0.119	33.01	-12.27
5 MHz	QPSK	2498.5	H	X	117	228	9.39	1 / 0	11.75	21.14	0.130	33.01	-11.87
	QPSK	2593.0	H	X	120	231	9.53	1 / 24	12.55	**22.07**	0.161	33.01	-10.94
	QPSK	2687.5	H	X	131	229	9.66	1 / 0	11.60	21.26	0.134	33.01	-11.75
	16-QAM	2593.0	H	X	120	231	9.53	1 / 24	12.31	21.83	0.153	33.01	-11.18
20 MHz	Opposite Pol.	2593.0	V	Y	144	294	9.53	1 / 99	11.62	21.15	0.130	33.01	-11.87
	WCP	2593.0	H	X	125	232	9.53	1 / 99	11.24	20.77	0.119	33.01	-12.25

Table 7-39. EIRP Data (LTE Band 41(PC2) – Ant B)

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	127	326	9.40	1 / 0	14.04	**23.44**	0.221	33.01	-9.57
	QPSK	2593.0	H	142	321	9.53	1 / 0	13.21	22.74	0.188	33.01	-10.28
	QPSK	2680.0	H	114	316	9.65	1 / 50	12.92	22.57	0.181	33.01	-10.44
	16-QAM	2506.0	H	127	326	9.40	1 / 0	13.19	22.59	0.181	33.01	-10.42
15 MHz	QPSK	2503.5	H	127	326	9.39	1 / 0	14.12	**23.52**	0.225	33.01	-9.49
	QPSK	2593.0	H	142	321	9.53	1 / 0	13.30	22.83	0.192	33.01	-10.18
	QPSK	2682.5	H	114	316	9.65	1 / 74	12.73	22.38	0.173	33.01	-10.63
	16-QAM	2682.5	H	114	316	9.65	1 / 74	13.02	22.68	0.185	33.01	-10.33
10 MHz	QPSK	2501.0	H	127	326	9.39	1 / 49	14.20	**23.59**	0.228	33.01	-9.42
	QPSK	2593.0	H	142	321	9.53	1 / 25	13.28	22.81	0.191	33.01	-10.20
	QPSK	2685.0	H	114	316	9.66	1 / 0	12.67	22.33	0.171	33.01	-10.68
	16-QAM	2685.0	H	114	316	9.66	1 / 0	13.06	22.72	0.187	33.01	-10.30
5 MHz	QPSK	2498.5	H	127	326	9.39	1 / 0	14.16	**23.54**	0.226	33.01	-9.47
	QPSK	2593.0	H	142	321	9.53	1 / 24	13.28	22.80	0.191	33.01	-10.21
	QPSK	2687.5	H	114	316	9.66	1 / 24	12.86	22.52	0.179	33.01	-10.49
	16-QAM	2687.5	H	114	316	9.66	1 / 24	13.18	22.84	0.192	33.01	-10.17
20 MHz	Opposite Pol.	2506.0	V	322	41	9.40	1 / 0	12.17	21.57	0.143	33.01	-11.44
	WCP	2506.0	H	127	326	9.40	1 / 0	13.68	23.08	0.203	33.01	-9.93

Table 7-40. EIRP Data (LTE Band 41(PC3) – Ant F)

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	141	226	9.40	1 / 50	10.36	19.76	0.095	33.01	-13.25
	QPSK	2593.0	H	148	231	9.53	1 / 50	10.25	**19.78**	0.095	33.01	-13.24
	QPSK	2680.0	H	148	241	9.65	1 / 0	10.03	19.68	0.093	33.01	-13.33
	16-QAM	2593.0	H	148	231	9.53	1 / 50	9.81	19.34	0.086	33.01	-13.68
15 MHz	QPSK	2503.5	H	141	226	9.39	1 / 50	10.36	19.76	0.095	33.01	-13.26
	QPSK	2593.0	H	148	231	9.53	1 / 50	10.24	**19.76**	0.095	33.01	-13.25
	QPSK	2682.5	H	148	241	9.65	1 / 50	9.96	19.61	0.092	33.01	-13.40
	16-QAM	2593.0	H	148	231	9.53	1 / 50	9.79	19.32	0.085	33.01	-13.69
10 MHz	QPSK	2501.0	H	141	226	9.39	1 / 99	10.31	19.70	0.093	33.01	-13.31
	QPSK	2593.0	H	148	231	9.53	1 / 50	10.22	**19.75**	0.094	33.01	-13.26
	QPSK	2685.0	H	148	241	9.66	1 / 50	9.95	19.61	0.091	33.01	-13.40
	16-QAM	2593.0	H	148	231	9.53	1 / 50	9.81	19.33	0.086	33.01	-13.68
5 MHz	QPSK	2498.5	H	141	226	9.39	1 / 0	10.18	19.56	0.090	33.01	-13.45
	QPSK	2593.0	H	148	231	9.53	1 / 99	10.24	**19.76**	0.095	33.01	-13.25
	QPSK	2687.5	H	148	241	9.66	1 / 50	9.67	19.33	0.086	33.01	-13.68
	16-QAM	2593.0	H	148	231	9.53	1 / 99	9.42	18.95	0.079	33.01	-14.06
20 MHz	Opposite Pol.	2593.0	V	150	240	9.53	1 / 50	9.71	19.24	0.084	33.01	-13.78
	WCP	2593.0	H	148	231	9.53	1 / 50	9.88	19.41	0.087	33.01	-13.61

Table 7-41. EIRP Data (LTE Band 41(PC3) – Ant B)

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	π/2 BPSK	2546.01	H	100	321	9.46	1 / 136	13.98	23.44	0.221	33.01	-9.57
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	14.11	**23.64**	0.231	33.01	-9.38
	π/2 BPSK	2640.00	H	101	313	9.59	1 / 136	12.55	22.14	0.164	33.01	-10.87
	QPSK	2546.01	H	100	321	9.46	1 / 136	13.50	22.96	0.198	33.01	-10.05
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.50	23.03	0.201	33.01	-9.99
	QPSK	2640.00	H	101	313	9.59	1 / 136	11.80	21.39	0.138	33.01	-11.62
	16-QAM	2592.99	H	100	317	9.53	1 / 1	12.87	22.40	0.174	33.01	-10.62
90 MHz	π/2 BPSK	2541.00	H	100	321	9.45	1 / 243	13.69	**23.14**	0.206	33.01	-9.87
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	13.56	23.09	0.204	33.01	-9.92
	π/2 BPSK	2644.98	H	101	313	9.60	1 / 1	11.99	21.59	0.144	33.01	-11.42
	QPSK	2541.00	H	100	321	9.45	1 / 243	13.41	22.86	0.193	33.01	-10.15
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.36	22.88	0.194	33.01	-10.13
	QPSK	2644.98	H	101	313	9.60	1 / 1	11.14	20.74	0.119	33.01	-12.27
	16-QAM	2592.99	H	100	317	9.53	1 / 243	12.35	21.87	0.154	33.01	-11.14
80 MHz	π/2 BPSK	2536.02	H	100	321	9.44	1 / 215	14.12	**23.56**	0.227	33.01	-9.45
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	13.72	23.24	0.211	33.01	-9.77
	π/2 BPSK	2649.99	H	101	313	9.61	1 / 108	13.20	22.81	0.191	33.01	-10.20
	QPSK	2536.02	H	100	321	9.44	1 / 215	13.85	23.30	0.214	33.01	-9.72
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.57	23.10	0.204	33.01	-9.91
	QPSK	2649.99	H	101	313	9.61	1 / 1	13.18	22.78	0.190	33.01	-10.23
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.18	22.70	0.186	33.01	-10.31
70 MHz	π/2 BPSK	2531.01	H	100	321	9.43	1 / 187	14.37	23.81	0.240	33.01	-9.20
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 94	13.76	23.29	0.213	33.01	-9.72
	π/2 BPSK	2655.00	H	101	313	9.61	1 / 94	13.29	22.91	0.195	33.01	-10.10
	QPSK	2531.01	H	100	321	9.43	1 / 187	15.03	**24.46**	0.280	33.01	-8.55
	QPSK	2592.99	H	100	317	9.53	1 / 94	14.89	24.41	0.276	33.01	-8.60
	QPSK	2655.00	H	101	313	9.61	1 / 94	12.91	22.52	0.179	33.01	-10.49
	16-QAM	2592.99	H	100	317	9.53	1 / 94	13.42	22.95	0.197	33.01	-10.06
60 MHz	π/2 BPSK	2526.00	H	100	321	9.43	1 / 160	14.45	23.88	0.244	33.01	-9.13
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	13.72	23.25	0.211	33.01	-9.76
	π/2 BPSK	2659.98	H	101	313	9.62	1 / 81	13.25	22.87	0.194	33.01	-10.14
	QPSK	2526.00	H	100	321	9.43	1 / 160	15.04	**24.47**	0.280	33.01	-8.54
	QPSK	2592.99	H	100	317	9.53	1 / 1	14.81	24.33	0.271	33.01	-8.68
	QPSK	2659.98	H	101	313	9.62	1 / 81	13.14	22.76	0.189	33.01	-10.25
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.64	23.17	0.207	33.01	-9.84
50 MHz	π/2 BPSK	2521.02	H	100	321	9.42	1 / 131	14.23	23.65	0.232	33.01	-9.36
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	13.60	23.13	0.205	33.01	-9.88
	π/2 BPSK	2664.99	H	101	313	9.63	1 / 66	13.06	22.69	0.186	33.01	-10.32
	QPSK	2521.02	H	100	321	9.42	1 / 131	14.89	**24.31**	0.270	33.01	-8.70
	QPSK	2592.99	H	100	317	9.53	1 / 1	14.69	24.22	0.264	33.01	-8.79
	QPSK	2664.99	H	101	313	9.63	1 / 66	12.90	22.52	0.179	33.01	-10.49
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.24	22.76	0.189	33.01	-10.25
45 MHz	π/2 BPSK	2518.50	H	100	321	9.41	1 / 117	13.84	23.26	0.212	33.01	-9.75
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	13.89	23.41	0.219	33.01	-9.60
	π/2 BPSK	2667.50	H	101	313	9.63	1 / 54	13.18	22.81	0.191	33.01	-10.20
	QPSK	2518.50	H	100	321	9.41	1 / 117	14.57	23.99	0.250	33.01	-9.02
	QPSK	2592.99	H	100	317	9.53	1 / 1	14.92	**24.44**	0.278	33.01	-8.57
	QPSK	2667.50	H	101	313	9.63	1 / 54	12.93	22.56	0.180	33.01	-10.45
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.54	23.07	0.203	33.01	-9.94
40 MHz	π/2 BPSK	2516.01	H	100	321	9.41	1 / 50	14.09	23.50	0.224	33.01	-9.51
	π/2 BPSK	2592.99	H	100	317	9.53	100 / 0	13.41	22.94	0.197	33.01	-10.07
	π/2 BPSK	2670.00	H	101	313	9.63	1 / 50	12.94	22.57	0.181	33.01	-10.44
	QPSK	2516.01	H	100	321	9.41	1 / 104	14.66	24.07	0.255	33.01	-8.94
	QPSK	2592.99	H	100	317	9.53	1 / 1	14.60	**24.13**	0.259	33.01	-8.88
	QPSK	2670.00	H	101	313	9.63	1 / 50	12.83	22.47	0.177	33.01	-10.54
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.91	23.43	0.220	33.01	-9.58
35 MHz	π/2 BPSK	2513.50	H	100	321	9.40	1 / 90	14.19	23.60	0.229	33.01	-9.42
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 90	13.83	23.35	0.216	33.01	-9.66
	π/2 BPSK	2672.50	H	101	313	9.64	1 / 39	13.09	22.73	0.187	33.01	-10.28
	QPSK	2513.50	H	100	321	9.40	1 / 45	14.69	24.09	0.257	33.01	-8.92
	QPSK	2592.99	H	100	317	9.53	1 / 1	14.83	**24.36**	0.273	33.01	-8.65
	QPSK	2672.50	H	101	313	9.64	1 / 45	12.86	22.51	0.178	33.01	-10.50
	16-QAM	2592.99	H	100	317	9.53	1 / 76	13.68	23.21	0.209	33.01	-9.80

Table 7-42. EIRP Data (NR Band n41 – Ant F - Default)

30 MHz	π/2 BPSK	2511.00	H	100	321	9.40	1 / 76	14.18	23.58	0.228	33.01	-9.43
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 76	13.73	23.25	0.212	33.01	-9.76
	π/2 BPSK	2674.98	H	101	313	9.64	1 / 1	13.15	22.80	0.190	33.01	-10.21
	QPSK	2511.00	H	100	321	9.40	1 / 76	14.56	23.97	0.249	33.01	-9.04
	QPSK	2592.99	H	100	317	9.53	1 / 1	14.76	**24.29**	0.268	33.01	-8.72
	QPSK	2674.98	H	101	313	9.64	1 / 1	12.90	22.55	0.180	33.01	-10.46
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.88	23.41	0.219	33.01	-9.60
25 MHz	π/2 BPSK	2508.50	H	100	321	9.40	1 / 63	14.45	23.84	0.242	33.01	-9.17
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 63	13.96	23.49	0.223	33.01	-9.52
	π/2 BPSK	2677.50	H	101	313	9.65	1 / 1	13.24	22.89	0.195	33.01	-10.12
	QPSK	2508.50	H	100	321	9.40	1 / 63	14.48	23.88	0.244	33.01	-9.13
	QPSK	2592.99	H	100	317	9.53	1 / 1	15.03	**24.56**	0.286	33.01	-8.45
	QPSK	2677.50	H	101	313	9.65	1 / 1	12.76	22.41	0.174	33.01	-10.60
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.92	23.45	0.221	33.01	-9.56
20 MHz	π/2 BPSK	2506.02	H	100	321	9.40	1 / 49	13.87	23.27	0.212	33.01	-9.74
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 25	13.56	23.09	0.204	33.01	-9.92
	π/2 BPSK	2679.99	H	101	313	9.65	1 / 1	12.96	22.61	0.182	33.01	-10.40
	QPSK	2506.02	H	100	321	9.40	1 / 49	14.58	23.97	0.250	33.01	-9.04
	QPSK	2592.99	H	100	317	9.53	1 / 25	14.59	**24.11**	0.258	33.01	-8.90
	QPSK	2679.99	H	101	313	9.65	1 / 1	13.05	22.70	0.186	33.01	-10.31
	16-QAM	2592.99	H	100	317	9.53	1 / 25	13.83	23.35	0.216	33.01	-9.66
15 MHz	π/2 BPSK	2503.50	H	100	321	9.40	1 / 36	14.09	23.49	0.223	33.01	-9.52
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 18	14.11	23.64	0.231	33.01	-9.37
	π/2 BPSK	2682.50	H	101	313	9.65	1 / 1	12.89	22.54	0.179	33.01	-10.47
	QPSK	2503.50	H	100	321	9.40	1 / 18	14.08	23.48	0.223	33.01	-9.53
	QPSK	2592.99	H	100	317	9.53	1 / 1	14.93	**24.46**	0.279	33.01	-8.55
	QPSK	2682.50	H	101	313	9.65	1 / 18	12.31	21.96	0.157	33.01	-11.05
	16-QAM	2592.99	H	100	317	9.53	1 / 18	13.85	23.38	0.218	33.01	-9.63
10 MHz	π/2 BPSK	2501.00	H	100	321	9.40	1 / 22	14.02	23.41	0.219	33.01	-9.60
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	13.61	23.14	0.206	33.01	-9.87
	π/2 BPSK	2685.00	H	101	313	9.65	1 / 1	12.18	21.83	0.152	33.01	-11.18
	QPSK	2501.00	H	100	321	9.40	1 / 22	14.04	23.43	0.220	33.01	-9.58
	QPSK	2592.99	H	100	317	9.53	1 / 1	14.61	**24.14**	0.259	33.01	-8.87
	QPSK	2685.00	H	101	313	9.65	1 / 1	11.65	21.30	0.135	33.01	-11.71
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.70	23.22	0.210	33.01	-9.79
100 MHz	QPSK (CP-OFDM)	2592.99	H	114	318	9.46	1 / 136	10.81	20.27	0.106	33.01	-12.74
	QPSK (Opposite Pol.)	2592.99	V	251	32	9.46	1 / 136	12.51	21.97	0.157	33.01	-11.04
	QPSK (WCP)	2592.99	H	114	309	9.46	1 / 136	10.90	20.36	0.109	33.01	-12.65

Table 7-43. EIRP Data (NR Band n41 – Ant F - Default)

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	π/2 BPSK	2546.01	H	100	321	9.46	1 / 136	13.98	23.44	0.221	33.01	-9.57
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	14.11	**23.64**	0.231	33.01	-9.38
	π/2 BPSK	2640.00	H	101	313	9.59	1 / 136	12.55	22.14	0.164	33.01	-10.87
	QPSK	2546.01	H	100	321	9.46	1 / 136	13.50	22.96	0.198	33.01	-10.05
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.50	23.03	0.201	33.01	-9.99
	QPSK	2640.00	H	101	313	9.59	1 / 136	11.80	21.39	0.138	33.01	-11.62
	16-QAM	2592.99	H	100	317	9.53	1 / 1	12.87	22.40	0.174	33.01	-10.62
90 MHz	π/2 BPSK	2541.00	H	100	321	9.45	1 / 122	14.15	23.60	0.229	33.01	-9.42
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 122	14.26	**23.79**	0.239	33.01	-9.22
	π/2 BPSK	2644.98	H	101	313	9.60	1 / 122	12.51	22.11	0.162	33.01	-10.91
	QPSK	2541.00	H	100	321	9.45	1 / 122	13.55	23.00	0.200	33.01	-10.01
	QPSK	2592.99	H	100	317	9.53	1 / 122	13.69	23.21	0.209	33.01	-9.80
	QPSK	2644.98	H	101	313	9.60	1 / 122	11.89	21.49	0.141	33.01	-11.52
	16-QAM	2592.99	H	100	317	9.53	1 / 122	13.09	22.61	0.182	33.01	-10.40
80 MHz	π/2 BPSK	2536.02	H	100	321	9.44	216 / 0	14.15	23.59	0.229	33.01	-9.42
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 108	14.27	**23.80**	0.240	33.01	-9.21
	π/2 BPSK	2649.99	H	101	313	9.61	1 / 1	12.67	22.28	0.169	33.01	-10.73
	QPSK	2536.02	H	100	321	9.44	1 / 108	13.64	23.08	0.203	33.01	-9.93
	QPSK	2592.99	H	100	317	9.53	1 / 108	13.73	23.25	0.212	33.01	-9.76
	QPSK	2649.99	H	101	313	9.61	1 / 1	12.00	21.60	0.145	33.01	-11.41
	16-QAM	2592.99	H	100	317	9.53	1 / 108	13.12	22.65	0.184	33.01	-10.36
70 MHz	π/2 BPSK	2531.01	H	100	321	9.43	1 / 94	14.29	23.72	0.236	33.01	-9.29
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 94	14.22	**23.75**	0.237	33.01	-9.26
	π/2 BPSK	2655.00	H	101	313	9.61	1 / 1	12.80	22.42	0.175	33.01	-10.59
	QPSK	2531.01	H	100	321	9.43	1 / 94	13.86	23.29	0.213	33.01	-9.72
	QPSK	2592.99	H	100	317	9.53	1 / 94	13.71	23.23	0.210	33.01	-9.78
	QPSK	2655.00	H	101	313	9.61	1 / 1	12.07	21.68	0.147	33.01	-11.33
	16-QAM	2592.99	H	100	317	9.53	1 / 94	12.99	22.52	0.179	33.01	-10.49
60 MHz	π/2 BPSK	2526.00	H	100	321	9.43	1 / 81	14.28	**23.70**	0.235	33.01	-9.31
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 160	14.14	23.67	0.233	33.01	-9.34
	π/2 BPSK	2659.98	H	101	313	9.62	1 / 1	12.60	22.22	0.167	33.01	-10.79
	QPSK	2526.00	H	100	321	9.43	1 / 81	13.83	23.26	0.212	33.01	-9.75
	QPSK	2592.99	H	100	317	9.53	1 / 160	13.63	23.16	0.207	33.01	-9.85
	QPSK	2659.98	H	101	313	9.62	1 / 1	11.85	21.48	0.140	33.01	-11.54
	16-QAM	2592.99	H	100	317	9.53	1 / 160	12.86	22.39	0.173	33.01	-10.62
50 MHz	π/2 BPSK	2521.02	H	100	321	9.42	1 / 66	14.59	24.01	0.252	33.01	-9.00
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	14.53	**24.05**	0.254	33.01	-8.96
	π/2 BPSK	2664.99	H	101	313	9.63	1 / 1	12.68	22.31	0.170	33.01	-10.70
	QPSK	2521.02	H	100	321	9.42	1 / 66	14.13	23.55	0.226	33.01	-9.46
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.93	23.46	0.222	33.01	-9.56
	QPSK	2664.99	H	101	313	9.63	1 / 1	12.06	21.69	0.148	33.01	-11.32
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.19	22.72	0.187	33.01	-10.29
45 MHz	π/2 BPSK	2518.50	H	100	321	9.41	108 / 0	14.39	23.80	0.240	33.01	-9.21
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 117	14.48	**24.00**	0.251	33.01	-9.01
	π/2 BPSK	2667.50	H	101	313	9.63	1 / 1	12.74	22.38	0.173	33.01	-10.63
	QPSK	2518.50	H	100	321	9.41	1 / 117	13.99	23.41	0.219	33.01	-9.60
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.89	23.42	0.220	33.01	-9.59
	QPSK	2667.50	H	101	313	9.63	1 / 1	12.00	21.63	0.146	33.01	-11.38
	16-QAM	2592.99	H	100	317	9.53	1 / 104	13.32	22.84	0.192	33.01	-10.17
40 MHz	π/2 BPSK	2516.01	H	100	321	9.41	1 / 53	14.55	23.97	0.249	33.01	-9.04
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	14.36	23.88	0.245	33.01	-9.13
	π/2 BPSK	2670.00	H	101	313	9.63	1 / 1	12.58	22.22	0.167	33.01	-10.79
	QPSK	2516.01	H	100	321	9.41	1 / 53	14.06	23.48	0.223	33.01	-9.53
	QPSK	2592.99	H	100	317	9.53	1 / 104	13.83	23.36	0.217	33.01	-9.65
	QPSK	2670.00	H	101	313	9.63	1 / 1	11.90	21.53	0.142	33.01	-11.48
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.16	22.69	0.186	33.01	-10.32
35 MHz	π/2 BPSK	2513.50	H	100	321	9.40	1 / 45	14.56	23.96	0.249	33.01	-9.05
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 90	14.28	23.80	0.240	33.01	-9.21
	π/2 BPSK	2672.50	H	101	313	9.64	1 / 1	12.66	22.30	0.170	33.01	-10.71
	QPSK	2513.50	H	100	321	9.40	1 / 1	14.11	23.52	0.225	33.01	-9.49
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.81	23.33	0.215	33.01	-9.68
	QPSK	2672.50	H	101	313	9.64	1 / 1	11.89	21.54	0.142	33.01	-11.47
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.20	22.72	0.187	33.01	-10.29

Table 7-44. EIRP Data (NR Band n41 – Ant B - Switching)

30 MHz	π/2 BPSK	2511.00	H	100	321	9.40	1 / 76	14.64	24.05	0.254	33.01	-8.96
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	14.53	**24.06**	0.255	33.01	-8.95
	π/2 BPSK	2674.98	H	101	313	9.64	1 / 1	12.78	22.42	0.175	33.01	-10.59
	QPSK	2511.00	H	100	321	9.40	1 / 39	14.13	23.54	0.226	33.01	-9.47
	QPSK	2592.99	H	100	317	9.53	1 / 76	13.93	23.45	0.221	33.01	-9.56
	QPSK	2674.98	H	101	313	9.64	1 / 1	12.06	21.70	0.148	33.01	-11.31
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.38	22.91	0.195	33.01	-10.10
25 MHz	π/2 BPSK	2508.50	H	100	321	9.40	1 / 1	14.72	**24.12**	0.258	33.01	-8.89
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 32	14.49	24.02	0.252	33.01	-8.99
	π/2 BPSK	2677.50	H	101	313	9.65	1 / 1	12.66	22.31	0.170	33.01	-10.70
	QPSK	2508.50	H	100	321	9.40	1 / 32	14.23	23.63	0.231	33.01	-9.38
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.91	23.43	0.220	33.01	-9.58
	QPSK	2677.50	H	101	313	9.65	1 / 1	12.09	21.74	0.149	33.01	-11.27
	16-QAM	2592.99	H	100	317	9.53	1 / 32	12.36	21.88	0.154	33.01	-11.13
20 MHz	π/2 BPSK	2506.02	H	100	321	9.40	1 / 25	14.69	24.08	0.256	33.01	-8.93
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 25	14.45	23.97	0.250	33.01	-9.04
	π/2 BPSK	2679.99	H	101	313	9.65	1 / 25	12.33	21.97	0.158	33.01	-11.04
	QPSK	2506.02	H	100	321	9.40	1 / 49	14.18	23.58	0.228	33.01	-9.43
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.86	23.39	0.218	33.01	-9.62
	QPSK	2679.99	H	101	313	9.65	1 / 1	11.65	21.30	0.135	33.01	-11.71
	16-QAM	2592.99	H	100	317	9.53	1 / 25	13.09	22.61	0.182	33.01	-10.40
15 MHz	π/2 BPSK	2503.50	H	100	321	9.40	1 / 1	14.72	24.12	0.258	33.01	-8.89
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 36	14.47	23.99	0.251	33.01	-9.02
	π/2 BPSK	2682.50	H	101	313	9.65	1 / 1	12.50	22.15	0.164	33.01	-10.86
	QPSK	2503.50	H	100	321	9.40	1 / 18	14.21	23.61	0.230	33.01	-9.40
	QPSK	2592.99	H	100	317	9.53	1 / 1	13.89	23.41	0.219	33.01	-9.60
	QPSK	2682.50	H	101	313	9.65	1 / 18	11.77	21.42	0.139	33.01	-11.59
	16-QAM	2592.99	H	100	317	9.53	1 / 49	13.50	23.03	0.201	33.01	-9.98
10 MHz	π/2 BPSK	2501.00	H	100	321	9.40	1 / 1	14.70	24.10	0.257	33.01	-8.91
	π/2 BPSK	2592.99	H	100	317	9.53	1 / 1	14.52	24.04	0.254	33.01	-8.97
	π/2 BPSK	2685.00	H	101	313	9.65	1 / 1	12.54	22.19	0.165	33.01	-10.82
	QPSK	2501.00	H	100	321	9.40	1 / 1	14.24	23.64	0.231	33.01	-9.38
	QPSK	2592.99	H	100	317	9.53	1 / 1	14.08	23.61	0.230	33.01	-9.40
	QPSK	2685.00	H	101	313	9.65	1 / 1	11.82	21.46	0.140	33.01	-11.55
	16-QAM	2592.99	H	100	317	9.53	1 / 1	13.23	22.76	0.189	33.01	-10.25
100 MHz	QPSK (CP-OFDM)	2592.99	H	114	318	9.46	1 / 136	10.81	20.27	0.106	33.01	-12.74
	QPSK (Opposite Pol.)	2592.99	V	251	32	9.46	1 / 136	12.51	21.97	0.157	33.01	-11.04
	QPSK (WCP)	2592.99	H	114	309	9.46	1 / 136	10.90	20.36	0.109	33.01	-12.65

Table 7-45. EIRP Data (NR Band n41 – Ant B - 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	π/2 BPSK	2546.01	H	125	230	9.46	1 / 136	9.76	19.22	0.083	33.01	-13.79
	π/2 BPSK	2592.99	H	110	232	9.53	1 / 1	10.11	**19.64**	0.092	33.01	-13.38
	π/2 BPSK	2640.00	H	116	232	9.59	1 / 136	9.74	19.33	0.086	33.01	-13.68
	QPSK	2546.01	H	125	230	9.46	1 / 136	9.08	18.54	0.071	33.01	-14.47
	QPSK	2592.99	H	110	232	9.53	1 / 1	9.47	19.00	0.079	33.01	-14.02
	QPSK	2640.00	H	116	232	9.59	1 / 136	8.92	18.51	0.071	33.01	-14.50
	16-QAM	2592.99	H	110	232	9.53	1 / 1	8.68	18.21	0.066	33.01	-14.81
100 MHz	QPSK (CP-OFDM)	2593.0	H	131	230	9.41	1 / 1	8.43	17.84	0.061	33.01	-15.17
	QPSK (Opposite Pol.)	2593.0	V	132	266	9.41	1 / 1	8.79	18.20	0.066	33.01	-14.81

Table 7-46. EIRP Data (NR Band n41 – Ant B - Default)

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	π/2 BPSK	2546.01	H	108	322	9.46	1 / 271	7.63	17.09	0.051	33.01	-15.92
	π/2 BPSK	2592.99	H	100	314	9.53	1 / 136	11.20	20.73	0.118	33.01	-12.29
	π/2 BPSK	2640.00	H	100	314	9.59	1 / 1	11.95	**21.54**	0.143	33.01	-11.47
	QPSK	2546.01	H	108	322	9.46	1 / 271	7.61	17.07	0.051	33.01	-15.94
	QPSK	2592.99	H	100	314	9.53	1 / 136	11.08	20.61	0.115	33.01	-12.41
	QPSK	2640.00	H	100	314	9.59	1 / 1	11.85	21.44	0.139	33.01	-11.57
	16-QAM	2640.00	H	100	314	9.59	1 / 1	11.06	20.65	0.116	33.01	-12.36
100 MHz	QPSK (CP-OFDM)	2640.0	H	100	314	9.59	1 / 136	10.47	20.06	0.101	33.01	-12.95
	QPSK (Opposite Pol.)	2640.0	V	291	30	9.59	1 / 136	10.48	20.07	0.102	33.01	-12.94

Table 7-47. EIRP Data (NR Band n41 – Ant F- 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	π/2 BPSK	2546.01	H	123	229	9.46	1 / 136	8.51	17.97	0.063	33.01	-15.04
	π/2 BPSK	2592.99	H	116	228	9.53	1 / 1	9.11	**18.64**	0.073	33.01	-14.38
	π/2 BPSK	2640.00	H	108	231	9.59	1 / 1	8.29	17.88	0.061	33.01	-15.13
	QPSK	2546.01	H	123	229	9.46	1 / 136	7.69	17.15	0.052	33.01	-15.86
	QPSK	2592.99	H	116	228	9.53	1 / 1	8.51	18.04	0.064	33.01	-14.98
	QPSK	2640.00	H	108	231	9.59	1 / 1	7.51	17.10	0.051	33.01	-15.91
	16-QAM	2592.99	H	116	228	9.53	1 / 1	7.53	17.06	0.051	33.01	-15.96
100 MHz	QPSK (CP-OFDM)	2593.0	H	107	231	9.53	1 / 1	6.56	16.09	0.041	33.01	-16.93
	QPSK (Opposite Pol.)	2593.0	V	114	277	9.53	1 / 1	6.57	16.10	0.041	33.01	-16.92

Table 7-48. EIRP Data (NR Band n41 – Ant E - Default)

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	π/2 BPSK	2546.01	H	136	229	9.46	1 / 271	4.94	14.40	0.028	33.01	-18.61
	π/2 BPSK	2592.99	H	130	225	9.53	1 / 136	6.40	15.93	0.039	33.01	-17.09
	π/2 BPSK	2640.00	H	132	229	9.59	1 / 1	6.73	**16.32**	0.043	33.01	-16.69
	QPSK	2546.01	H	136	229	9.46	1 / 271	4.84	14.30	0.027	33.01	-18.71
	QPSK	2592.99	H	130	225	9.53	1 / 136	6.27	15.80	0.038	33.01	-17.22
	QPSK	2640.00	H	132	229	9.59	1 / 1	6.56	16.15	0.041	33.01	-16.86
	16-QAM	2640.00	H	132	229	9.59	1 / 1	5.96	15.55	0.036	33.01	-17.46
100 MHz	QPSK (CP-OFDM)	2640.0	H	118	229	9.59	1 / 1	5.86	15.45	0.035	33.01	-17.56
	QPSK (Opposite Pol.)	2640.0	V	119	277	9.59	1 / 1	4.91	14.50	0.028	33.01	-18.51

Table 7-49. EIRP Data (NR Band n41 – Ant D- 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	π/2 BPSK	2546.01	H	106	47	9.46	1 / 1	5.57	**15.03**	0.032	33.01	-17.98
	π/2 BPSK	2592.99	H	100	45	9.53	1 / 271	5.37	14.90	0.031	33.01	-18.12
	π/2 BPSK	2640.00	H	120	43	9.59	1 / 136	5.03	14.62	0.029	33.01	-18.39
	QPSK	2546.01	H	106	47	9.46	1 / 136	5.30	14.76	0.030	33.01	-18.25
	QPSK	2592.99	H	100	45	9.53	1 / 1	4.68	14.21	0.026	33.01	-18.81
	QPSK	2640.00	H	120	43	9.59	1 / 136	4.25	13.84	0.024	33.01	-19.17
	16-QAM	2546.01	H	106	47	9.46	1 / 1	3.83	13.29	0.021	33.01	-19.72
100 MHz	QPSK (CP-OFDM)	2546.0	H	136	41	9.46	1 / 136	5.20	14.66	0.029	33.01	-18.35
	QPSK (Opposite Pol.)	2546.0	V	141	20	9.46	1 / 1	4.10	13.56	0.023	33.01	-19.45

Table 7-50. EIRP Data (NR Band n41 – Ant D - Default)

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	π/2 BPSK	2546.01	H	100	47	9.46	1 / 1	2.36	11.82	0.015	33.01	-21.19
	π/2 BPSK	2592.99	H	100	48	9.53	1 / 271	1.76	11.29	0.013	33.01	-21.73
	π/2 BPSK	2640.00	H	115	45	9.59	1 / 271	2.78	**12.37**	0.017	33.01	-20.64
	QPSK	2546.01	H	100	47	9.46	1 / 1	2.37	11.83	0.015	33.01	-21.18
	QPSK	2592.99	H	100	48	9.53	1 / 271	1.77	11.30	0.013	33.01	-21.72
	QPSK	2640.00	H	115	45	9.59	1 / 271	2.76	12.35	0.017	33.01	-20.66
	16-QAM	2640.00	H	115	45	9.59	1 / 271	2.70	12.29	0.017	33.01	-20.72
100 MHz	QPSK (CP-OFDM)	2640.0	H	128	45	9.59	1 / 271	2.83	12.42	0.017	33.01	-20.59
	QPSK (Opposite Pol.)	2640.0	V	161	16	9.59	1 / 271	1.49	11.08	0.013	33.01	-21.93

Table 7-51. EIRP Data (NR Band n41 – Ant E - Switching)

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 ≥ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points ≥ 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

Test Setup

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

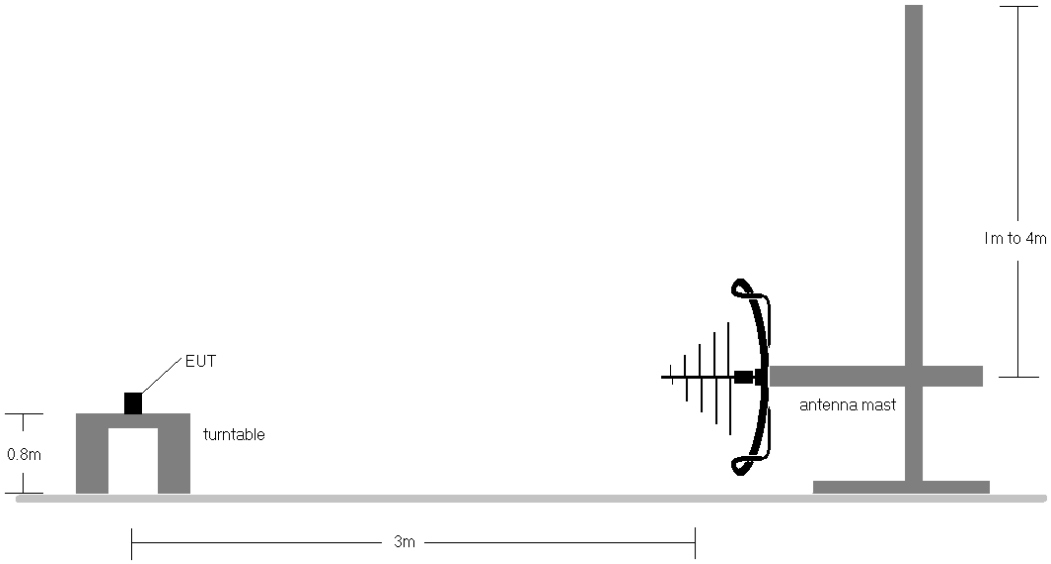


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

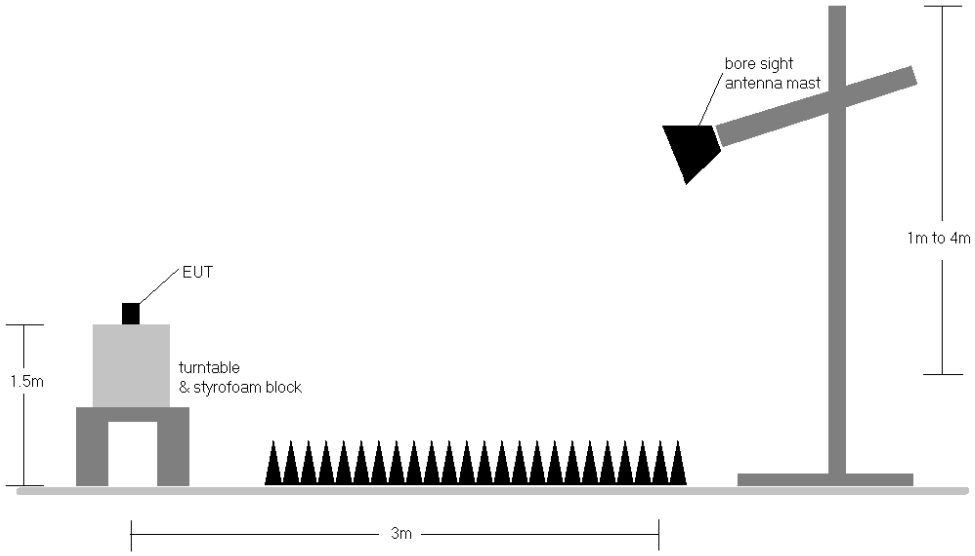


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
   a. E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
   b. EIRP (dBm) = E(dBµV/m) + 20logD – 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.

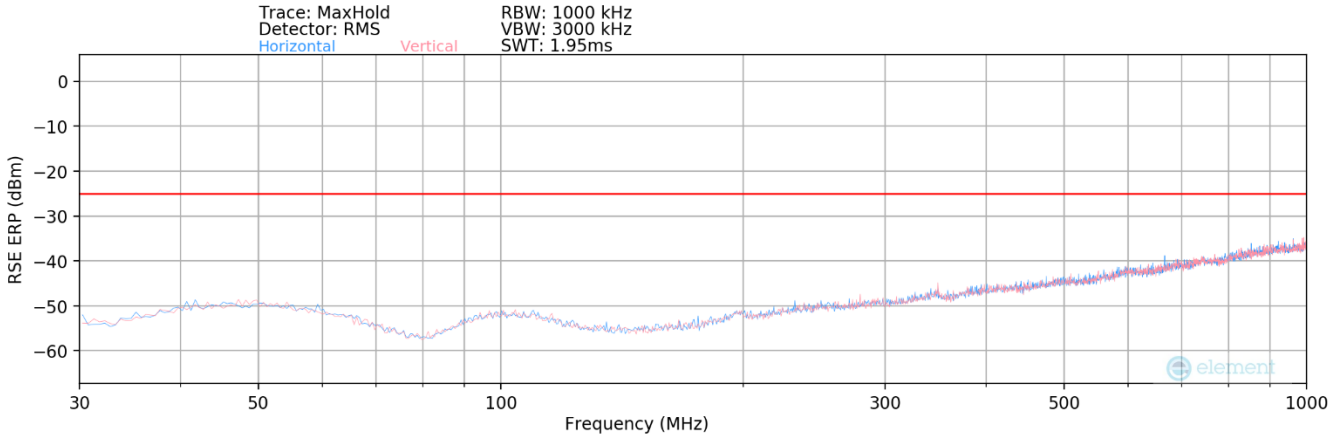
5. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

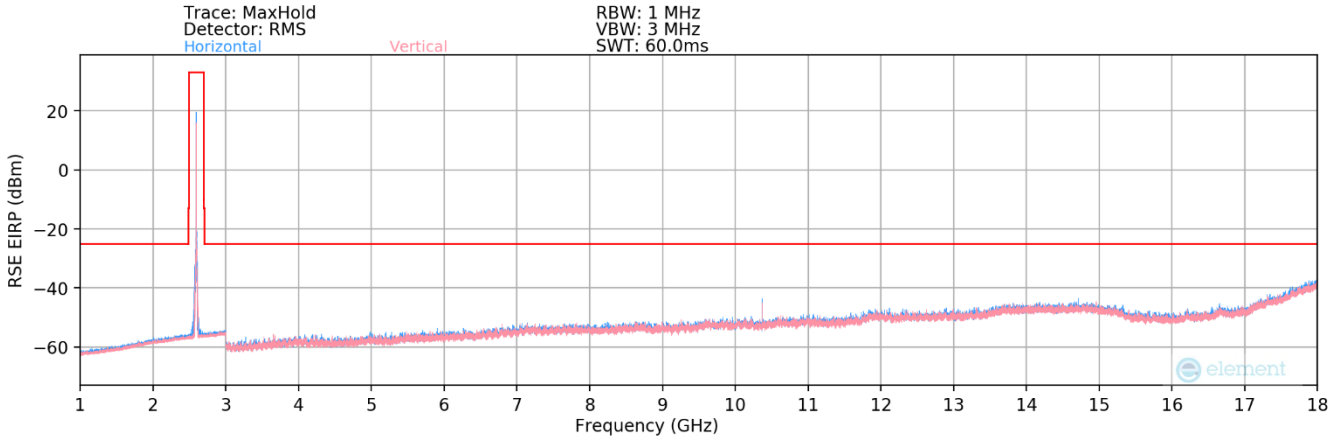
7. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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.

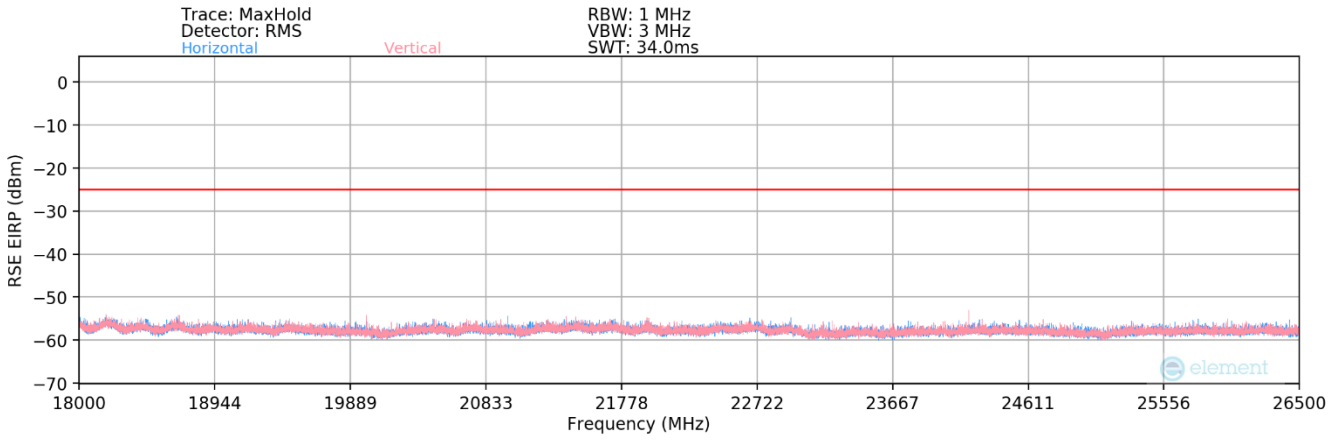
LTE Band 41(PC2) – Ant F



Plot 7-207. Radiated Spurious Plot (LTE Band 41(PC2) – Ant F)



Plot 7-208. Radiated Spurious Plot (LTE Band 41(PC2) – Ant F)



Plot 7-209. Radiated Spurious Plot (LTE Band 41(PC2) – Ant F)

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	H	152	318	-74.58	2.41	34.83	-60.43	-25.00	-35.43
7518.00	H	-	-	-77.08	6.93	36.85	-58.41	-25.00	-33.41
10024.00	H	138	51	-72.31	10.94	45.63	-49.63	-25.00	-24.63
12530.00	H	-	-	-77.49	13.64	43.15	-52.11	-25.00	-27.11
17542.00	H	-	-	-78.02	21.38	50.36	-44.90	-25.00	-19.90
22554.00	H	-	-	-66.77	-3.49	36.74	-68.06	-25.00	-43.06

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

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	168	331	-74.26	2.23	34.97	-60.29	-25.00	-35.29
7779.00	H	-	-	-77.19	7.42	37.23	-58.02	-25.00	-33.02
10372.00	H	122	59	-70.76	11.13	47.37	-47.89	-25.00	-22.89
12965.00	H	-	-	-78.09	14.06	42.97	-52.28	-25.00	-27.28
15558.00	H	-	-	-78.50	14.91	43.41	-51.84	-25.00	-26.84
23337.00	H	-	-	-67.28	-3.60	36.12	-68.68	-25.00	-43.68

Table 7-53. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant F)

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	163	328	-73.63	3.12	36.49	-58.77	-25.00	-33.77
8040.00	H	-	-	-77.80	7.42	36.62	-58.63	-25.00	-33.63
10720.00	H	144	49	-71.38	11.57	47.19	-48.06	-25.00	-23.06
13400.00	H	-	-	-78.25	14.49	43.24	-52.01	-25.00	-27.01
16080.00	H	-	-	-78.49	13.46	41.97	-53.29	-25.00	-28.29
24120.00	H	-	-	-66.93	-3.21	36.86	-67.94	-25.00	-42.94

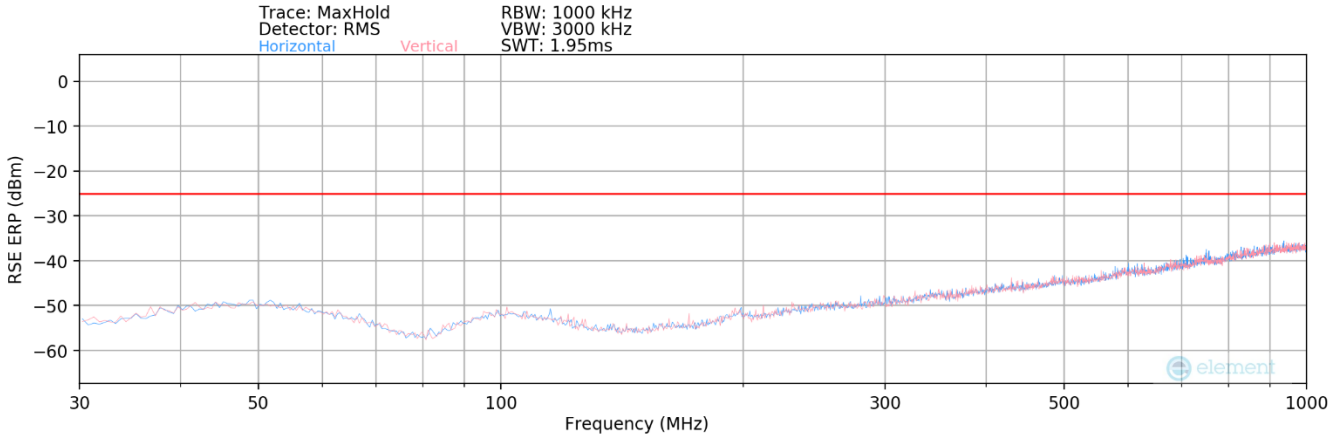
Table 7-54. Radiated Spurious Data (LTE Band 41(PC2) – High Channel – Ant F)

Bandwidth (MHz):	10
Frequency (MHz):	2593.0
RB / Offset:	1/25

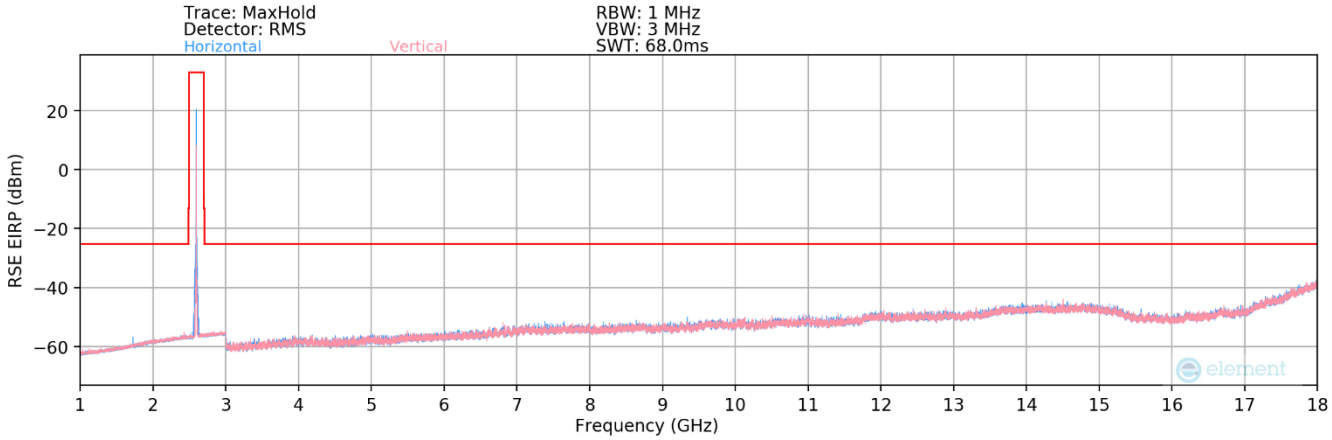
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
268.08	H	-	-	-97.09	19.75	29.66	-67.74	-25.00	-42.74
551.70	H	-	-	-96.33	25.51	36.18	-61.22	-25.00	-36.22
961.77	H	-	-	-96.33	30.82	41.49	-55.92	-25.00	-30.92

Table 7-55. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant F)

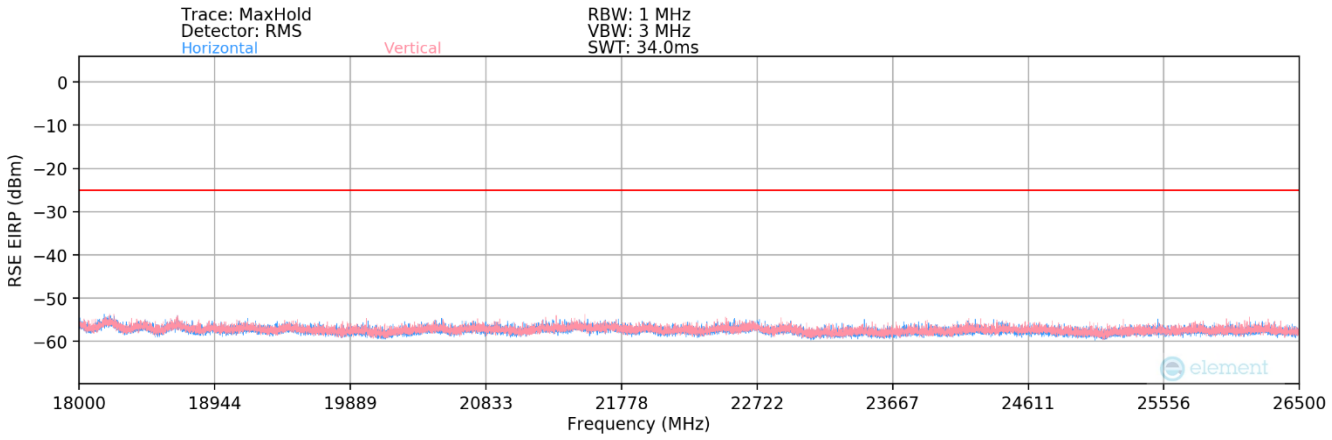
LTE Band 41(PC2) – Ant B



Plot 7-210. Radiated Spurious Plot (LTE Band 41(PC2) – Ant B)



Plot 7-211. Radiated Spurious Plot (LTE Band 41(PC2) – Ant B)



Plot 7-212. Radiated Spurious Plot (LTE Band 41(PC2) – Ant B)

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	104	1	-74.30	2.30	35.00	-60.25	-25.00	-35.25
7530.00	V	-	-	-76.91	7.01	37.10	-58.16	-25.00	-33.16
10040.00	V	100	325	-76.59	10.74	41.15	-54.11	-25.00	-29.11
12550.00	V	-	-	-77.67	13.73	43.06	-52.20	-25.00	-27.20
17570.00	V	-	-	-77.93	21.36	50.43	-44.83	-25.00	-19.83
22590.00	V	-	-	-66.79	-3.49	36.72	-68.08	-25.00	-43.08

Table 7-56. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel – Ant B)

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	110	4	-73.51	2.23	35.72	-59.54	-25.00	-34.54
7779.00	V	-	-	-77.13	7.42	37.29	-57.96	-25.00	-32.96
10372.00	V	107	337	-76.49	11.13	41.64	-53.62	-25.00	-28.62
12965.00	V	-	-	-77.98	14.06	43.08	-52.17	-25.00	-27.17
15558.00	V	-	-	-78.51	14.91	43.40	-51.85	-25.00	-26.85
23337.00	V	-	-	-67.25	-3.60	36.15	-68.65	-25.00	-43.65

Table 7-57. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant B)

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	104	10	-76.09	3.12	34.03	-61.23	-25.00	-36.23
8040.00	V	-	-	-77.25	7.42	37.17	-58.08	-25.00	-33.08
10720.00	V	101	336	-71.82	11.57	46.75	-48.50	-25.00	-23.50
13400.00	V	-	-	-78.08	14.49	43.41	-51.84	-25.00	-26.84
16080.00	V	-	-	-78.83	13.46	41.63	-53.63	-25.00	-28.63
24120.00	V	-	-	-66.87	-3.21	36.92	-67.88	-25.00	-42.88

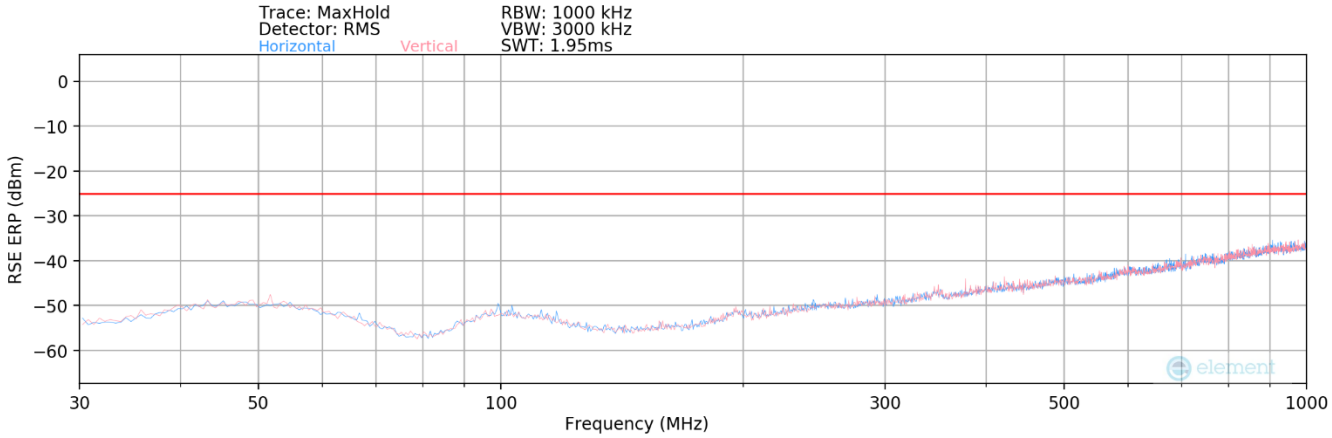
Table 7-58. Radiated Spurious Data (LTE Band 41(PC2) – High Channel – Ant B)

Bandwidth (MHz):	10
Frequency (MHz):	2593.0
RB / Offset:	1/25

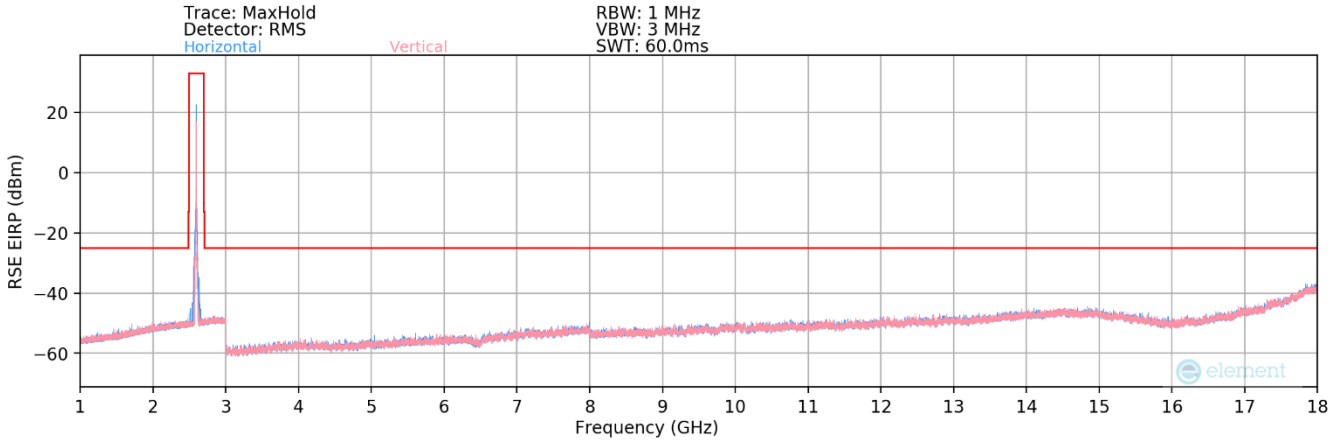
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
288.80	H	-	-	-97.12	20.35	30.23	-67.18	-25.00	-42.18
548.61	H	-	-	-96.34	25.44	36.10	-61.31	-25.00	-36.31
970.02	H	-	-	-96.31	30.99	41.68	-55.73	-25.00	-30.73

Table 7-59. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant B)

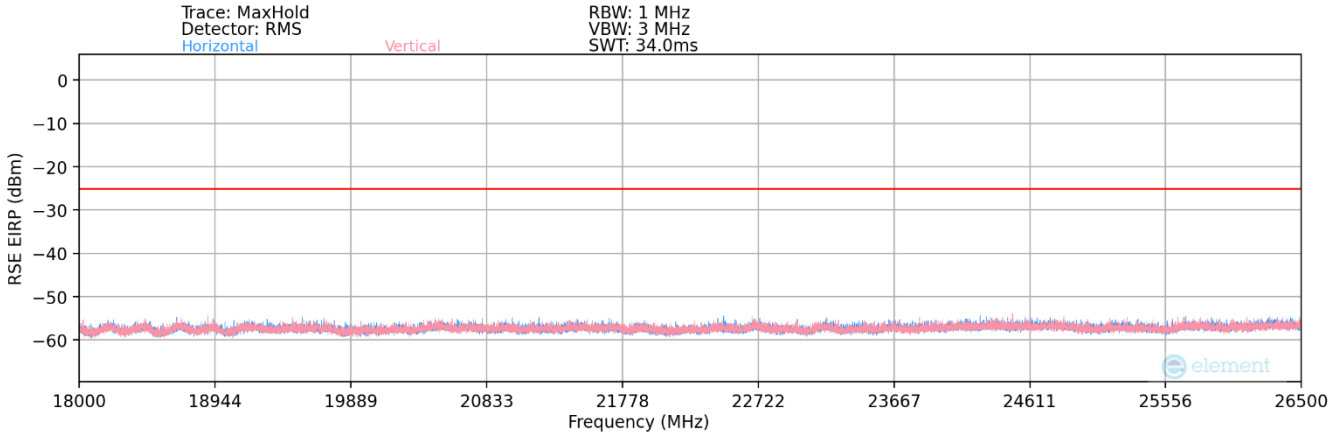
LTE Band 41(PC3) – Ant F



Plot 7-213. Radiated Spurious Plot (LTE Band 41(PC3) – Ant F)



Plot 7-214. Radiated Spurious Plot (LTE Band 41(PC3) – Ant F)



Plot 7-215. Radiated Spurious Plot (LTE Band 41(PC3) – Ant F)

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	-	-	-76.82	2.41	32.59	-62.67	-25.00	-37.67
7518.00	V	-	-	-78.51	6.93	35.42	-59.84	-25.00	-34.84
10024.00	V	-	-	-79.86	10.94	38.08	-57.18	-25.00	-32.18

Table 7-60. Radiated Spurious Data (LTE Band 41(PC3) – Low Channel – Ant F)

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	-	-	-76.67	2.23	32.56	-62.70	-25.00	-37.70
7779.00	V	-	-	-78.69	7.42	35.73	-59.52	-25.00	-34.52
10372.00	V	-	-	-81.03	11.13	37.10	-58.16	-25.00	-33.16

Table 7-61. Radiated Spurious Data (LTE Band 41(PC3) – Mid Channel – Ant F)

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	-	-	-76.69	3.12	33.43	-61.83	-25.00	-36.83
8040.00	V	-	-	-78.51	7.42	35.91	-59.34	-25.00	-34.34
10720.00	V	-	-	-80.36	11.57	38.21	-57.04	-25.00	-32.04

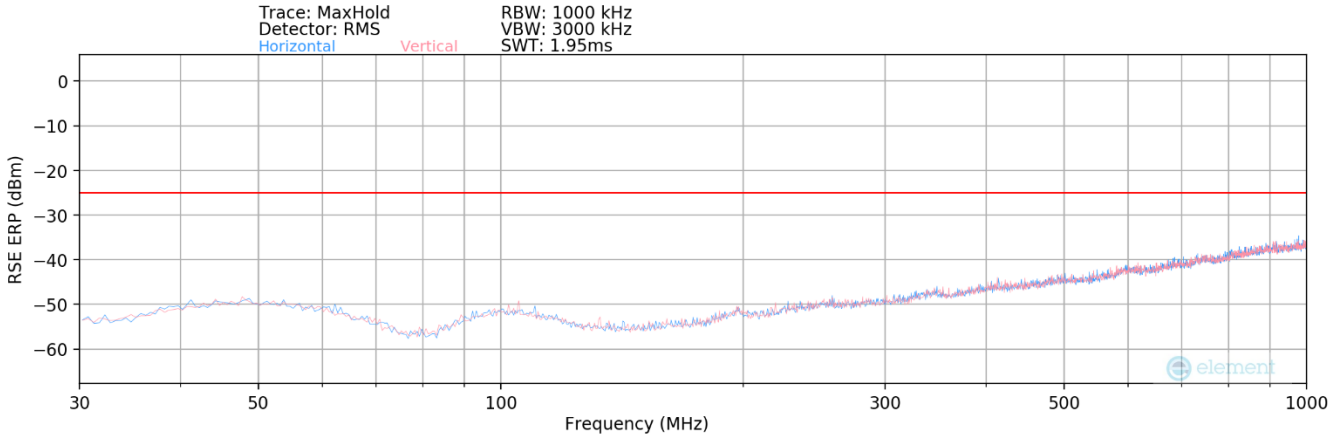
Table 7-62. Radiated Spurious Data (LTE Band 41(PC3) – High Channel – Ant F)

Bandwidth (MHz):	10
Frequency (MHz):	2593.0
RB / Offset:	1/25

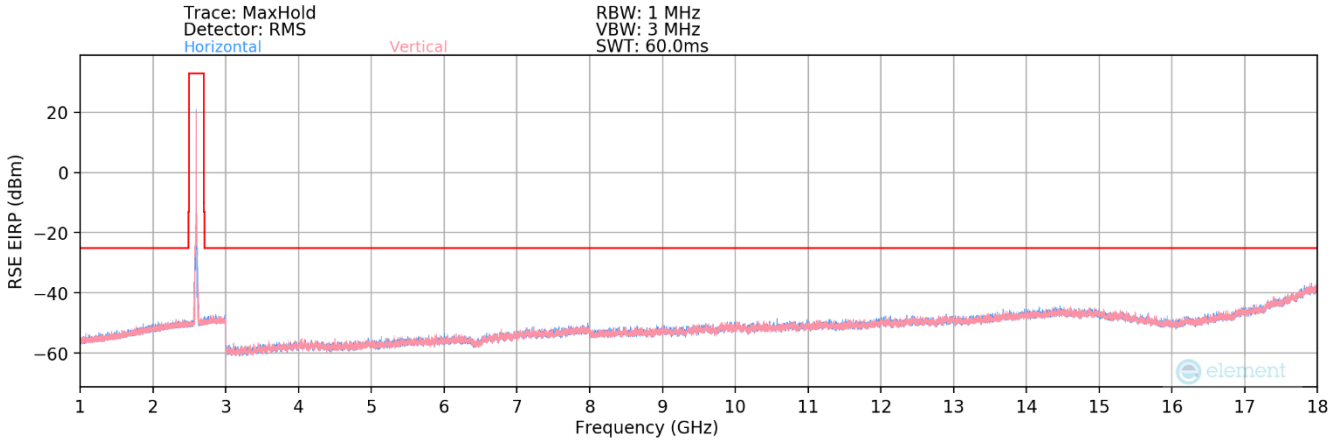
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
98.36	H	-	-	-97.35	18.42	28.07	-69.34	-25.00	-44.34
472.90	H	-	-	-96.36	24.21	34.85	-62.56	-25.00	-37.56
886.40	H	-	-	-96.68	30.43	40.75	-56.65	-25.00	-31.65

Table 7-63. Radiated Spurious Data (LTE Band 41(PC3) – Mid Channel – Ant F)

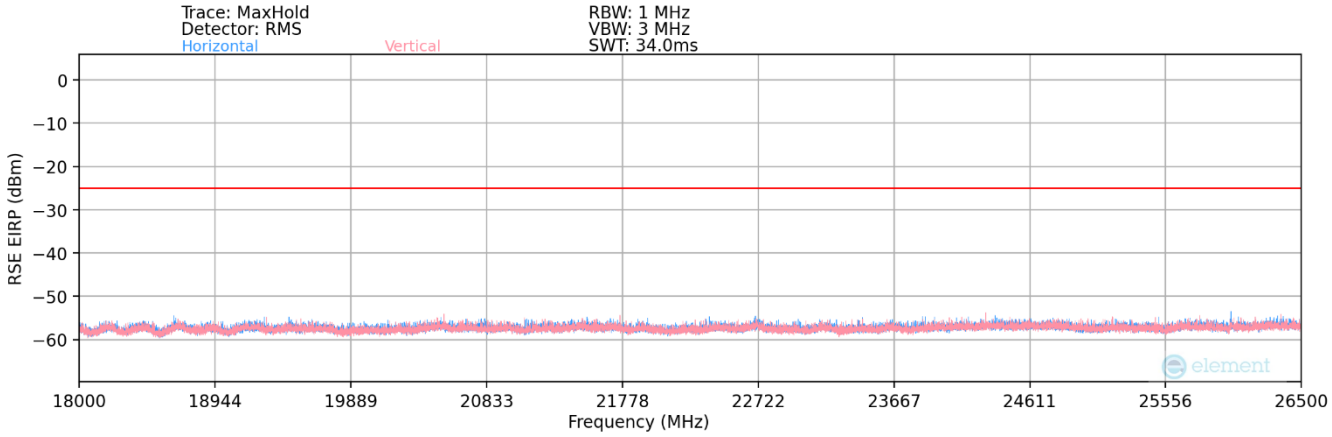
LTE Band 41(PC3) – Ant B



Plot 7-216. Radiated Spurious Plot (LTE Band 41(PC3) – Ant B)



Plot 7-217. Radiated Spurious Plot (LTE Band 41(PC3) – Ant B)



Plot 7-218. Radiated Spurious Plot (LTE Band 41(PC3) – Ant B)

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	H	-	-	-76.87	2.41	32.54	-62.72	-25.00	-37.72
7518.00	H	-	-	-78.53	6.93	35.40	-59.86	-25.00	-34.86
10024.00	H	-	-	-79.85	10.94	38.09	-57.17	-25.00	-32.17

Table 7-64. Radiated Spurious Data (LTE Band 41(PC3) – Low Channel – Ant B)

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	-	-	-76.68	2.23	32.55	-62.71	-25.00	-37.71
7779.00	H	-	-	-78.56	7.42	35.86	-59.39	-25.00	-34.39
10372.00	H	-	-	-81.15	11.13	36.98	-58.28	-25.00	-33.28

Table 7-65. Radiated Spurious Data (LTE Band 41(PC3) – Mid Channel – Ant B)

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	-	-	-77.45	3.12	32.67	-62.59	-25.00	-37.59
8040.00	H	-	-	-78.57	7.42	35.85	-59.40	-25.00	-34.40
10720.00	H	-	-	-81.01	11.57	37.56	-57.69	-25.00	-32.69

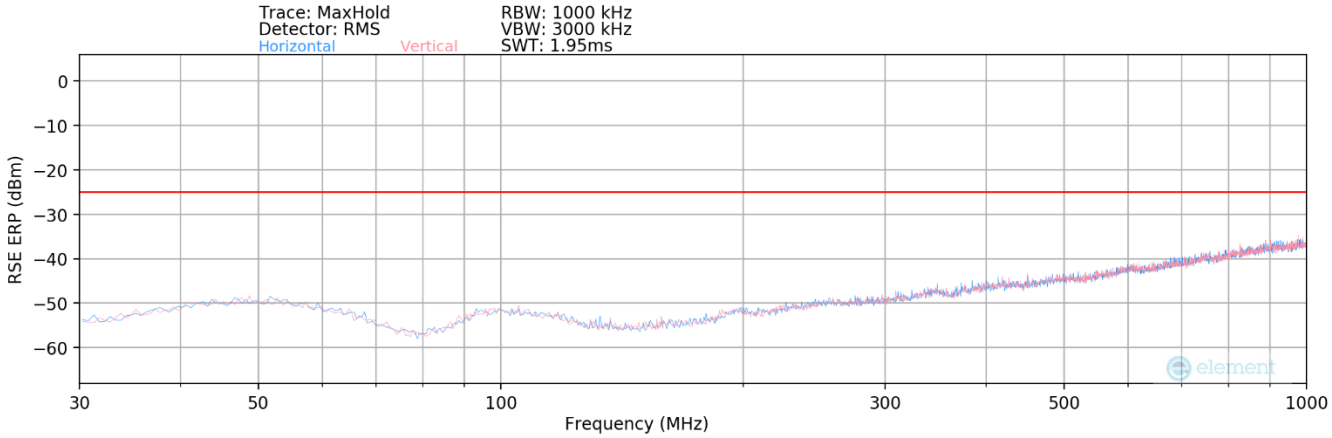
Table 7-66. Radiated Spurious Data (LTE Band 41(PC3) – High Channel – Ant B)

Bandwidth (MHz):	10
Frequency (MHz):	2593.0
RB / Offset:	1/25

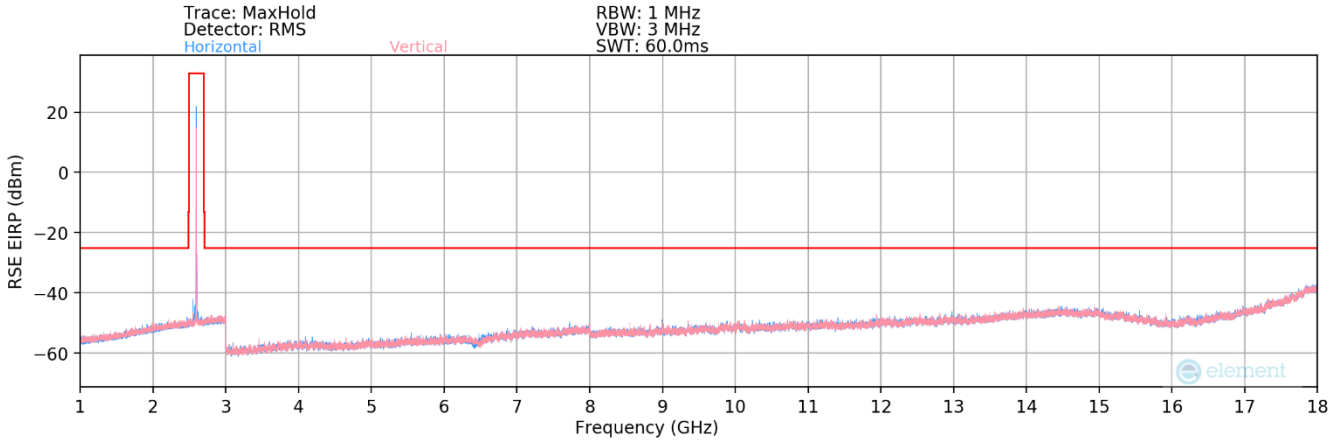
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
109.20	V	-	-	-96.33	18.04	28.71	-68.70	-25.00	-43.70
492.18	V	-	-	-95.67	24.78	36.11	-61.30	-25.00	-36.30
933.71	V	-	-	-96.79	30.69	40.90	-56.51	-25.00	-31.51

Table 7-67. Radiated Spurious Data (LTE Band 41(PC3) – Mid Channel – Ant B)

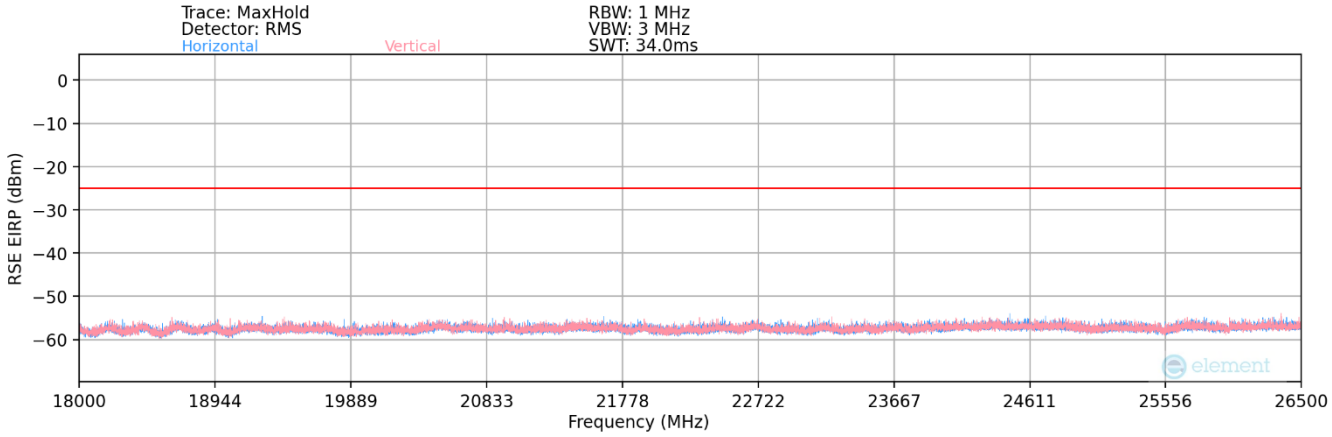
NR Band n41 – Ant F – Default



Plot 7-219. Radiated Spurious Plot (NR Band n41 – Ant F)



Plot 7-220. Radiated Spurious Plot (NR Band n41 – Ant F)



Plot 7-221. Radiated Spurious Plot (NR Band n41 – Ant F)

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136
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]
5092.02	H	-	-	-75.92	1.93	33.01	-62.25	-25.00	-37.25
7638.03	H	-	-	-77.12	7.24	37.12	-58.14	-25.00	-33.14
10184.04	H	-	-	-79.93	10.88	37.95	-57.31	-25.00	-32.31

Table 7-68. Radiated Spurious Data (NR Band n41 – Low Channel – Ant F)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
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]
5185.98	H	-	-	-75.93	2.23	33.30	-61.96	-25.00	-36.96
7778.97	H	-	-	-77.94	7.42	36.48	-58.77	-25.00	-33.77
10371.96	H	-	-	-80.22	11.13	37.91	-57.35	-25.00	-32.35

Table 7-69. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant F)

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
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]
5280.00	H	-	-	-76.14	2.23	33.09	-62.17	-25.00	-37.17
7920.00	H	-	-	-77.92	7.39	36.47	-58.78	-25.00	-33.78
10560.00	H	-	-	-79.62	11.35	38.73	-56.52	-25.00	-31.52

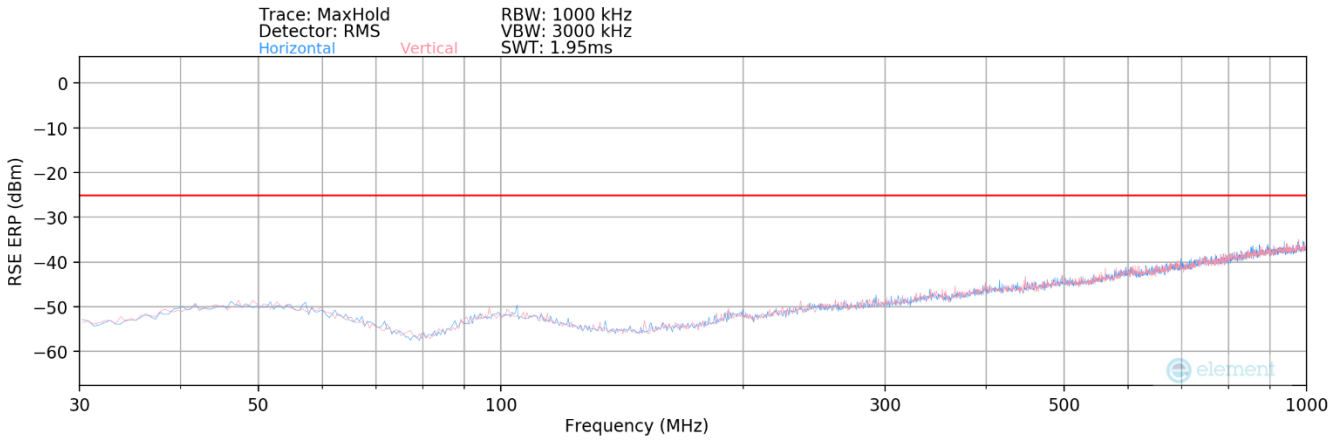
Table 7-70. Radiated Spurious Data (NR Band n41 – High Channel – Ant F)

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

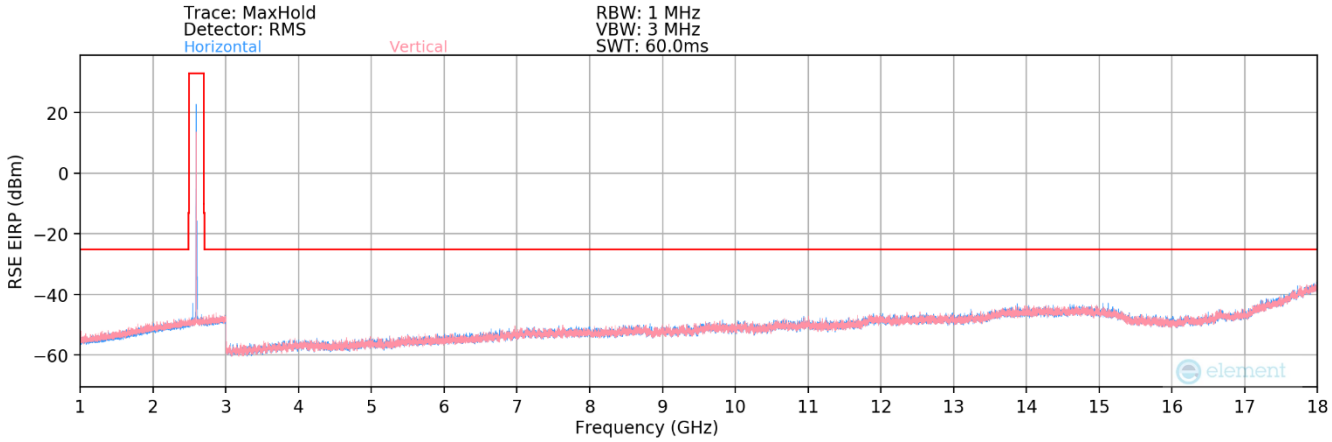
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	H	-	-	-75.93	2.23	33.30	-61.96	-25.00	-36.96
7778.97	H	-	-	-77.94	7.42	36.48	-58.77	-25.00	-33.77
10371.96	H	-	-	-80.22	11.13	37.91	-57.35	-25.00	-32.35

Table 7-71. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant F)

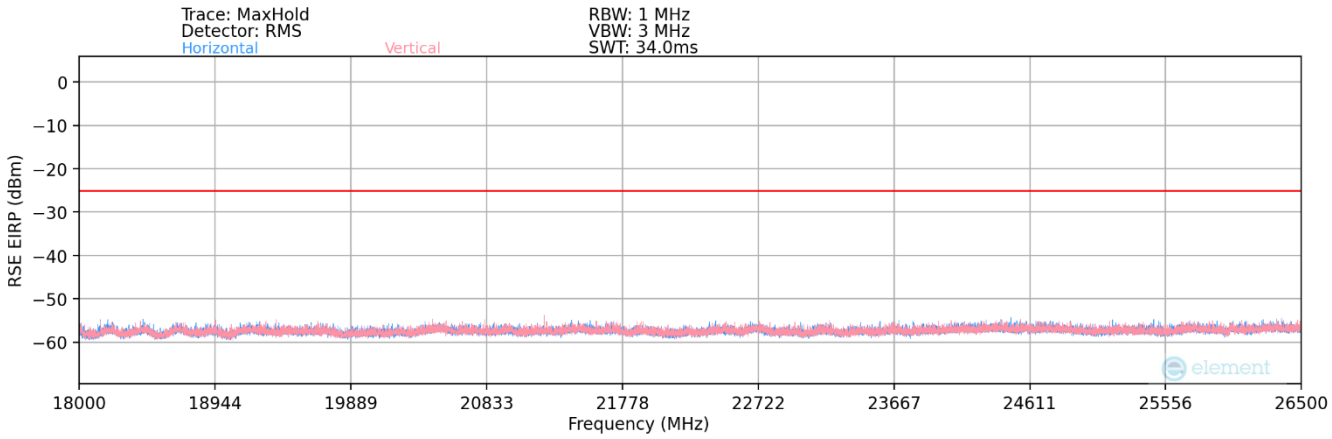
NR Band n41 – Ant B – Switching



Plot 7-222. Radiated Spurious Plot (NR Band n41 – Ant B)



Plot 7-223. Radiated Spurious Plot (NR Band n41 – Ant B)



Plot 7-224. Radiated Spurious Plot (NR Band n41 – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136
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]
5092.02	H	-	-	-75.44	1.93	33.49	-61.77	-25.00	-36.77
7638.03	H	-	-	-76.92	7.24	37.32	-57.94	-25.00	-32.94
10184.04	H	-	-	-79.87	10.88	38.01	-57.25	-25.00	-32.25

Table 7-72. Radiated Spurious Data (NR Band n41 – Low Channel – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
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]
5185.98	H	-	-	-75.60	2.23	33.63	-61.63	-25.00	-36.63
7778.97	H	-	-	-77.30	7.42	37.12	-58.13	-25.00	-33.13
10371.96	H	-	-	-79.70	11.13	38.43	-56.83	-25.00	-31.83

Table 7-73. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
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]
5280.00	H	-	-	-75.99	2.23	33.24	-62.02	-25.00	-37.02
7920.00	H	-	-	-77.55	7.39	36.84	-58.41	-25.00	-33.41
10560.00	H	-	-	-79.06	11.35	39.29	-55.96	-25.00	-30.96

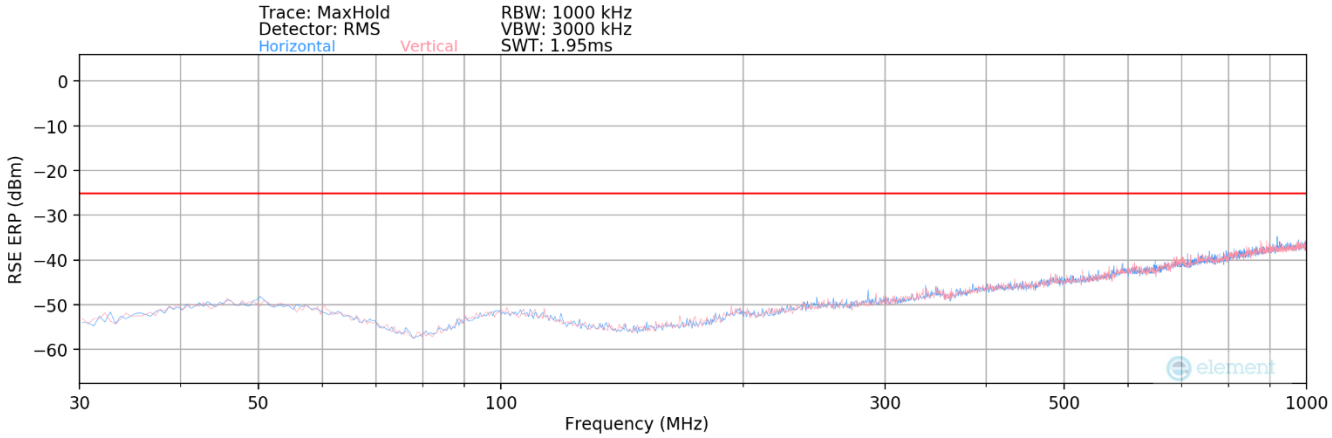
Table 7-74. Radiated Spurious Data (NR Band n41 – High Channel – Ant B)

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

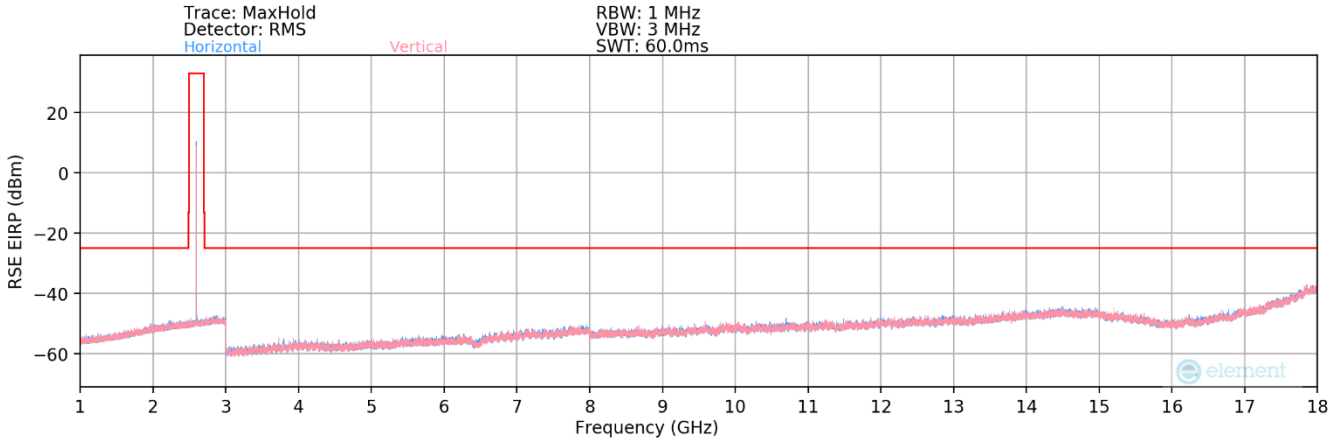
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
171.05	H	-	-	-96.94	15.77	25.83	-71.58	-25.00	-46.58
546.32	H	-	-	-95.87	25.38	36.51	-60.90	-25.00	-35.90
961.77	H	-	-	-96.08	30.82	41.74	-55.67	-25.00	-30.67

Table 7-75. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant B)

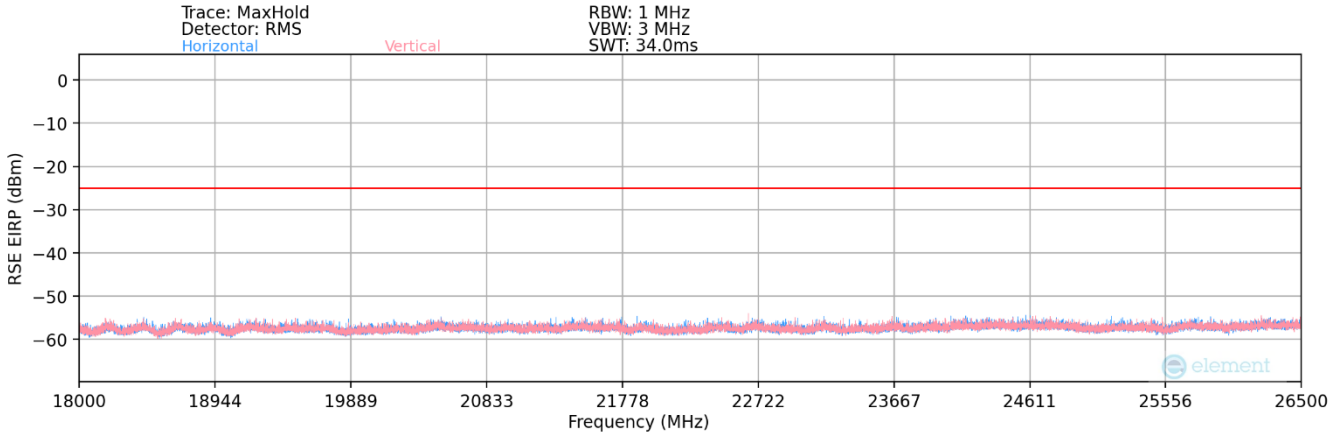
NR Band n41 – Ant B – Default



Plot 7-225. Radiated Spurious Plot (NR Band n41 – Ant B)



Plot 7-226. Radiated Spurious Plot (NR Band n41 – Ant B)



Plot 7-227. Radiated Spurious Plot (NR Band n41 – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136
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]
5092.02	H	-	-	-76.50	1.93	32.43	-62.83	-25.00	-37.83
7638.03	H	-	-	-78.07	7.24	36.17	-59.09	-25.00	-34.09
10184.04	H	-	-	-80.41	10.88	37.47	-57.79	-25.00	-32.79

Table 7-76. Radiated Spurious Data (NR Band n41 – Low Channel – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
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]
5185.98	H	-	-	-76.78	2.23	32.45	-62.81	-25.00	-37.81
7778.97	H	-	-	-78.72	7.42	35.70	-59.55	-25.00	-34.55
10371.96	H	-	-	-80.98	11.13	37.15	-58.11	-25.00	-33.11

Table 7-77. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
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]
5280.00	H	-	-	-76.95	2.23	32.28	-62.98	-25.00	-37.98
7920.00	H	-	-	-78.56	7.39	35.83	-59.42	-25.00	-34.42
10560.00	H	-	-	-80.19	11.35	38.16	-57.09	-25.00	-32.09

Table 7-78. Radiated Spurious Data (NR Band n41 – High Channel – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
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]
93.28	H	-	-	-96.82	17.61	27.79	-69.62	-25.00	-44.62
546.94	H	-	-	-95.96	25.39	36.43	-60.98	-25.00	-35.98
970.84	H	-	-	-96.07	31.01	41.94	-55.47	-25.00	-30.47

Table 7-79. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant B)