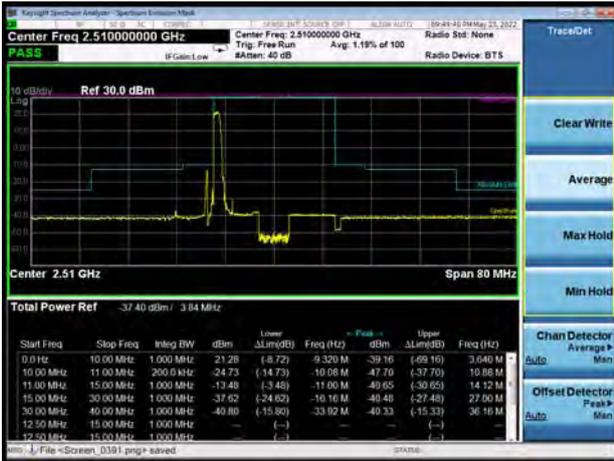
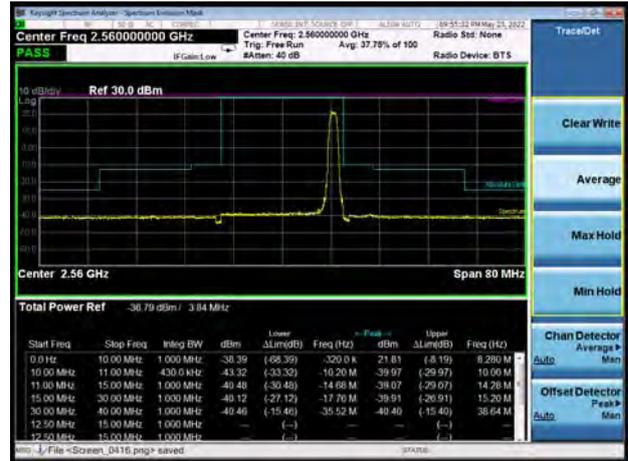




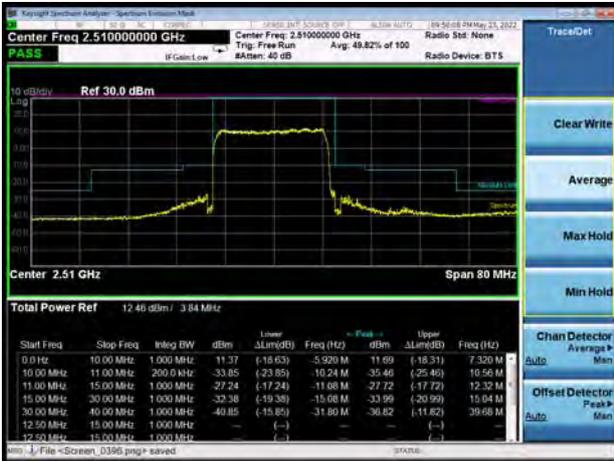
NR n7 64QAM 20MHz CH-Low 1RB



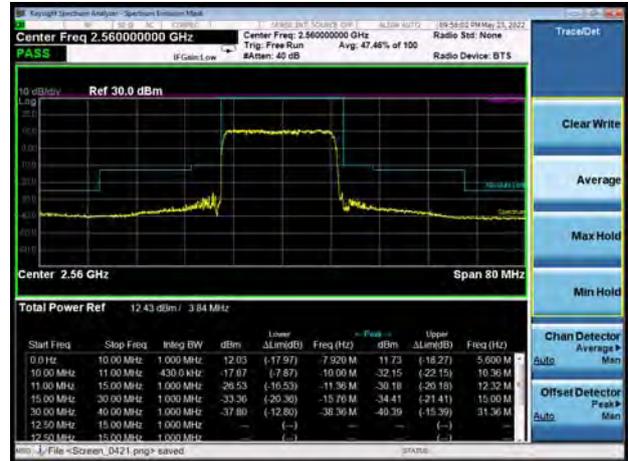
NR n7 64QAM 20MHz CH-High 1RB



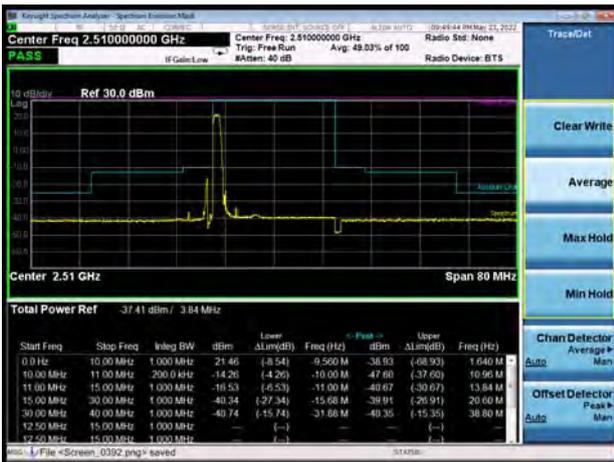
NR n7 64QAM 20MHz CH-Low 100%RB



NR n7 64QAM 20MHz CH-High 100%RB



NR n7 256QAM 20MHz CH-Low 1RB



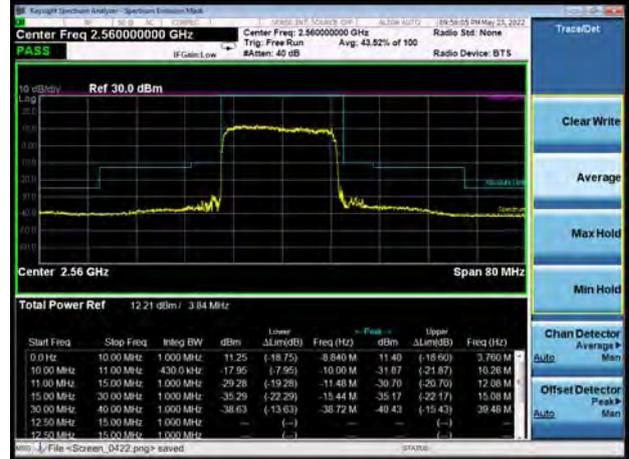
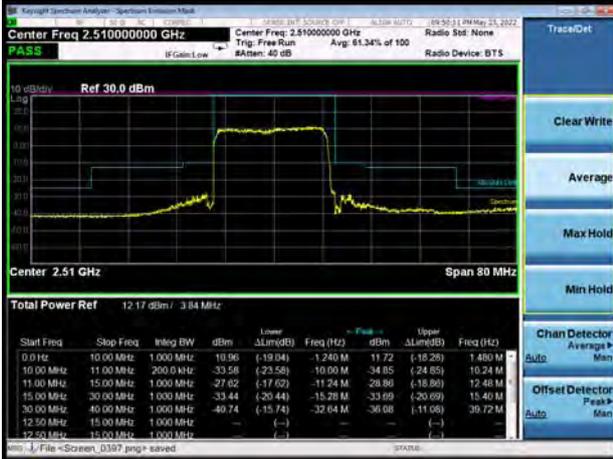
NR n7 256QAM 20MHz CH-High 1RB





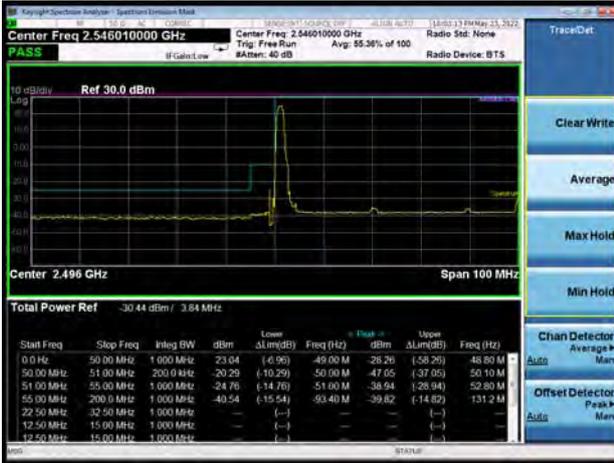
NR n7 256QAM 20MHz CH-Low 100%RB

NR n7 256QAM 20MHz CH-High 100%RB

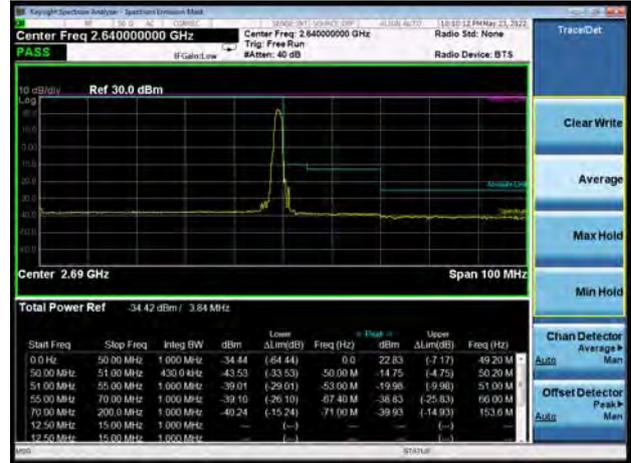




NR n41 P1/2 BPSK 100MHz CH-Low 1RB



NR n41 P1/2 BPSK 100MHz CH-High 1RB



NR n41 P1/2 BPSK 100MHz CH-Low 100%RB



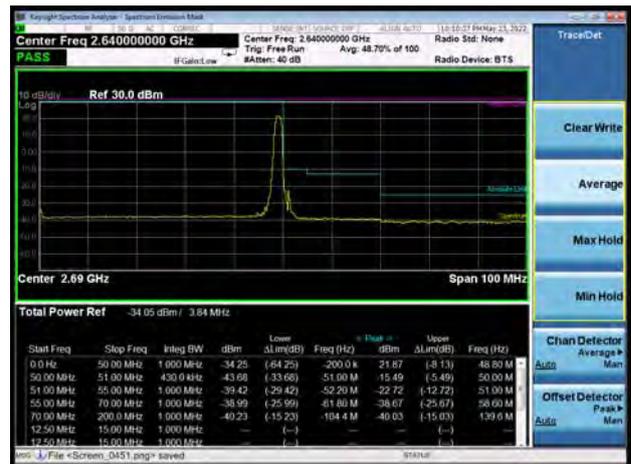
NR n41 P1/2 BPSK 100MHz CH-High 100%RB



NR n41 QPSK 100MHz CH-Low 1RB

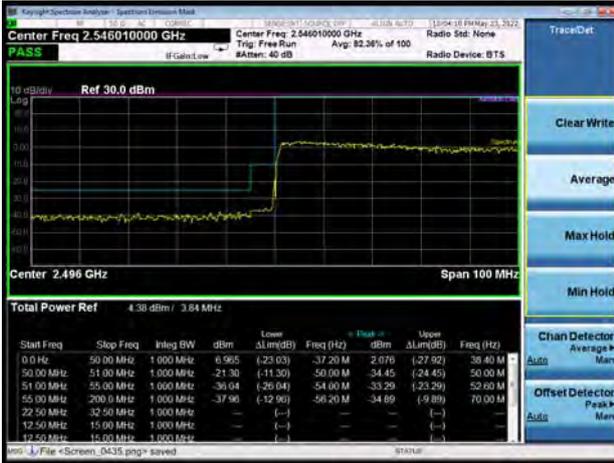


NR n41 QPSK 100MHz CH-High 1RB





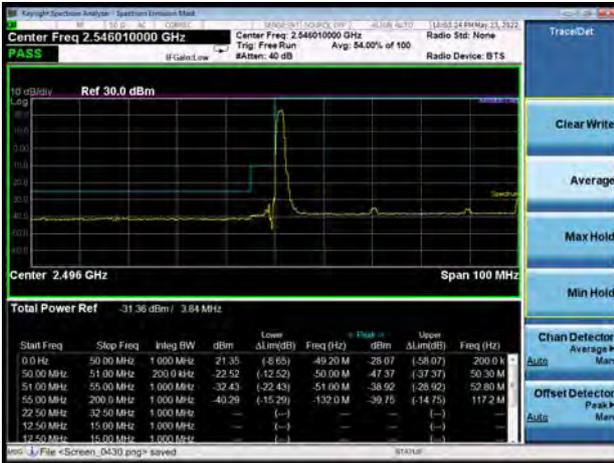
NR n41 QPSK 100MHz CH-Low 100%RB



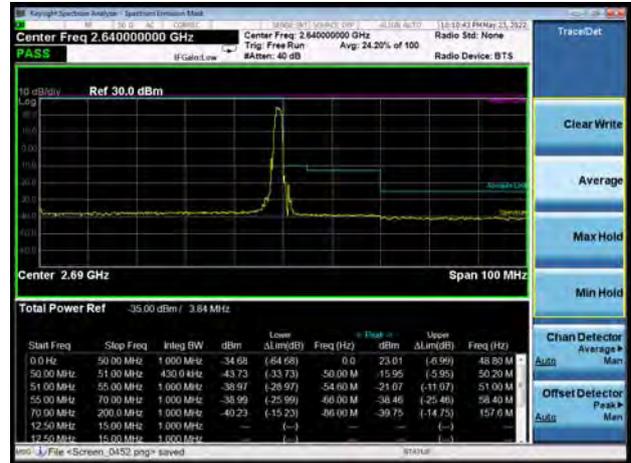
NR n41 QPSK 100MHz CH-High 100%RB



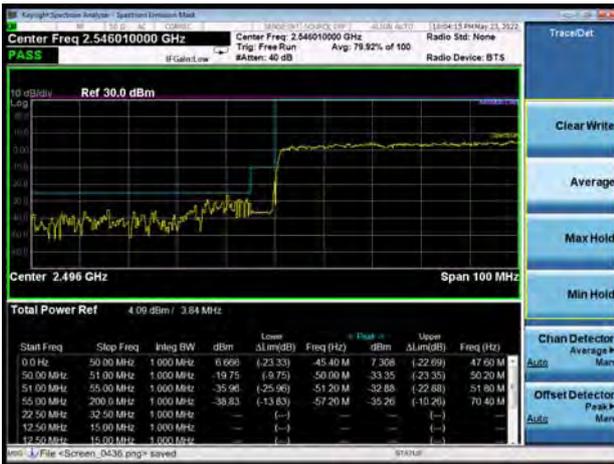
NR n41 16QAM 100MHz CH-Low 1RB



NR n41 16QAM 100MHz CH-High 1RB



NR n41 16QAM 100MHz CH-Low 100%RB

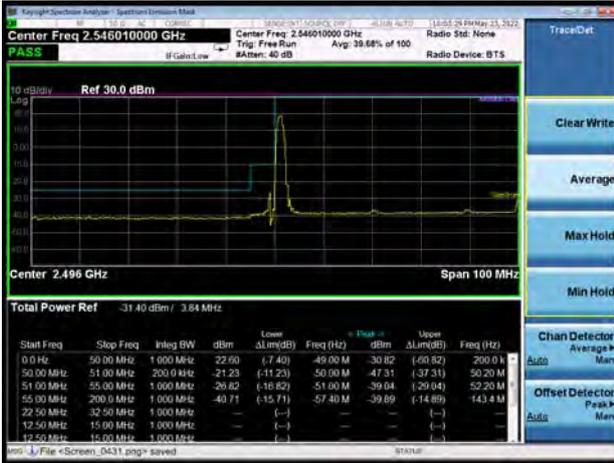


NR n41 16QAM 100MHz CH-High 100%RB

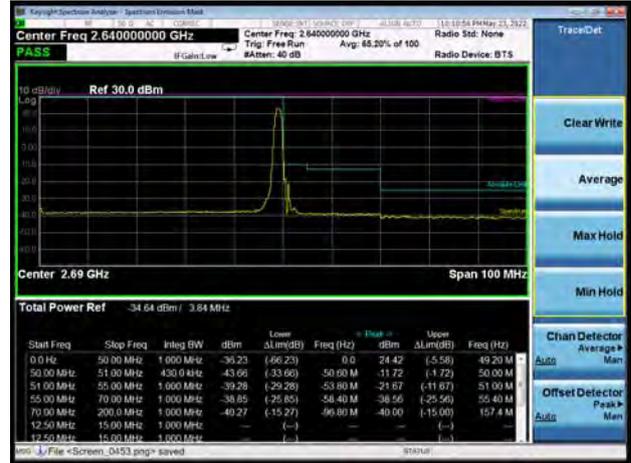




NR n41 64QAM 100MHz CH-Low 1RB



NR n41 64QAM 100MHz CH-High 1RB



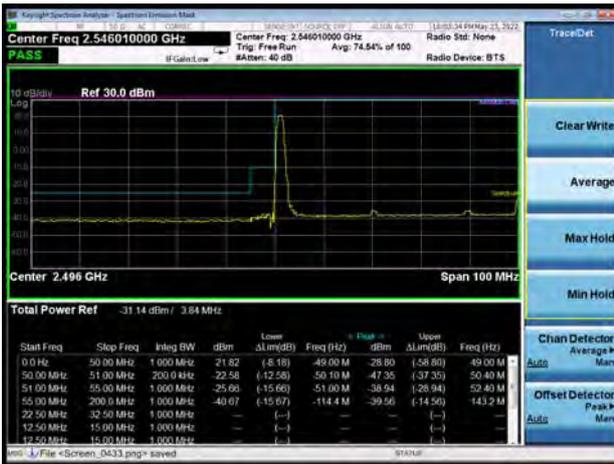
NR n41 64QAM 100MHz CH-Low 100%RB



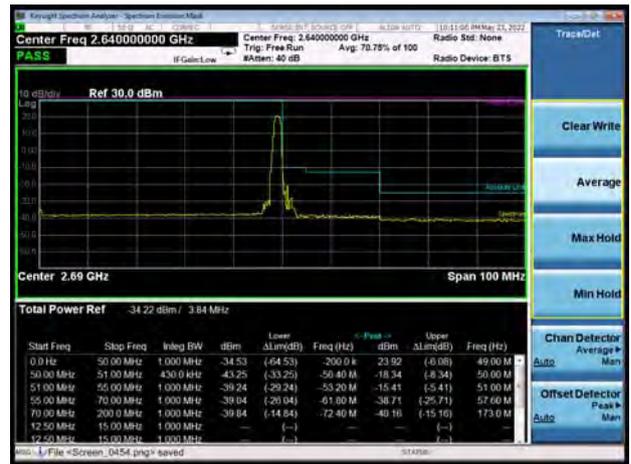
NR n41 64QAM 100MHz CH-High 100%RB



NR n41 256QAM 100MHz CH-Low 1RB



NR n41 256QAM 100MHz CH-High 1RB





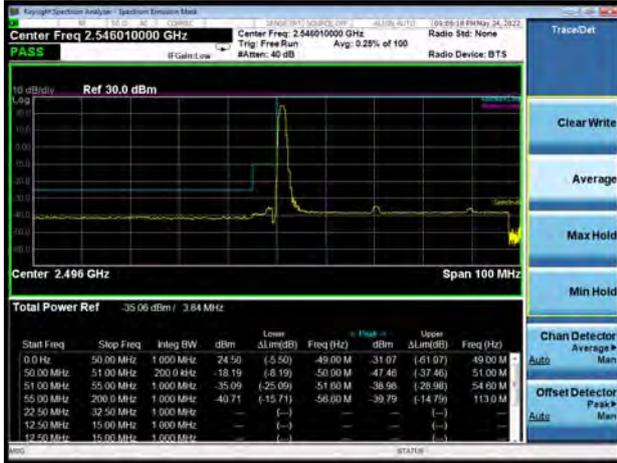
NR n41 256QAM 100MHz CH-Low 100%RB

NR n41 256QAM 100MHz CH-High 100%RB

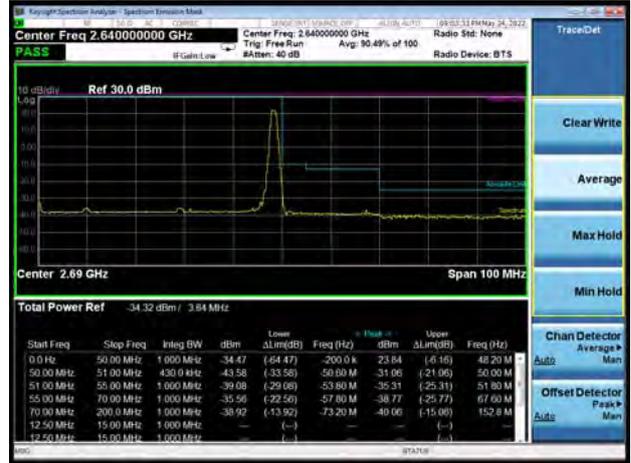




DC_28 A (subset 2)-n41A P1/2 BPSK 100MHz
CH-Low 1RB



DC_28 A (subset 2)-n41A P1/2 BPSK 100MHz
CH-High 1RB



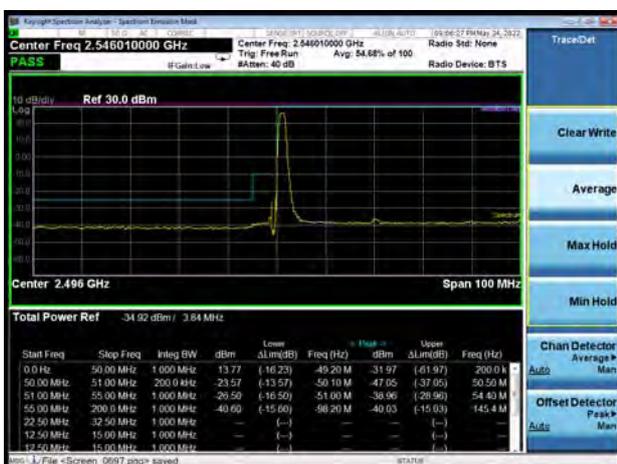
DC_28 A (subset 2)-n41A P1/2 BPSK 100MHz
CH-Low 100%RB



DC_28 A (subset 2)-n41A P1/2 BPSK 100MHz
CH-High 100%RB



DC_28 A (subset 2)-n41A QPSK 100MHz
CH-Low 1RB



DC_28 A (subset 2)-n41A QPSK 100MHz
CH-High 1RB





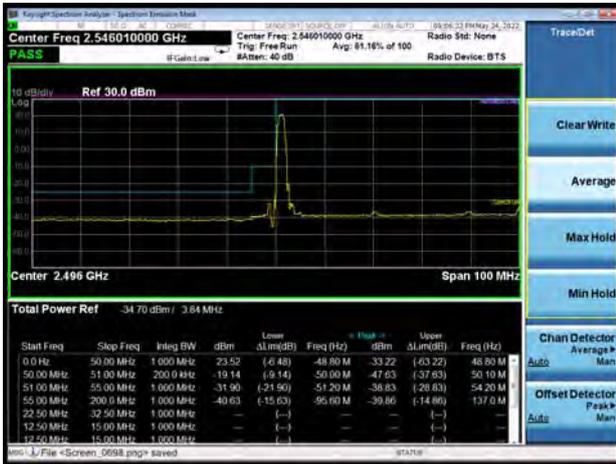
DC_28 A (subset 2)-n41A QPSK 100MHz
CH-Low 100%RB



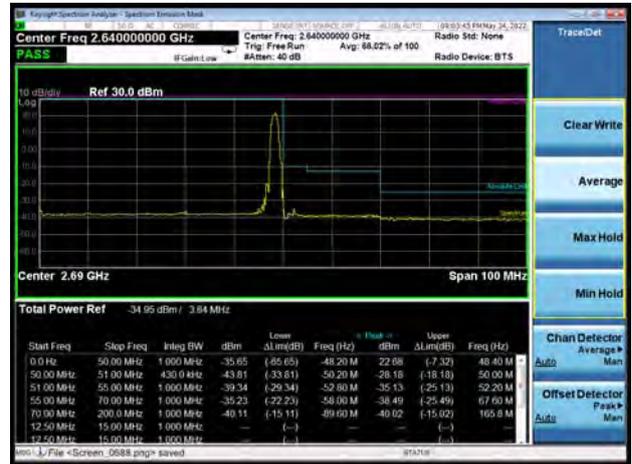
DC_28 A (subset 2)-n41A QPSK 100MHz
CH-High 100%RB



DC_28 A (subset 2)-n41A 16QAM 100MHz
CH-Low 1RB



DC_28 A (subset 2)-n41A 16QAM 100MHz
CH-High 1RB



DC_28 A (subset 2)-n41A 16QAM 100MHz
CH-Low 100%RB

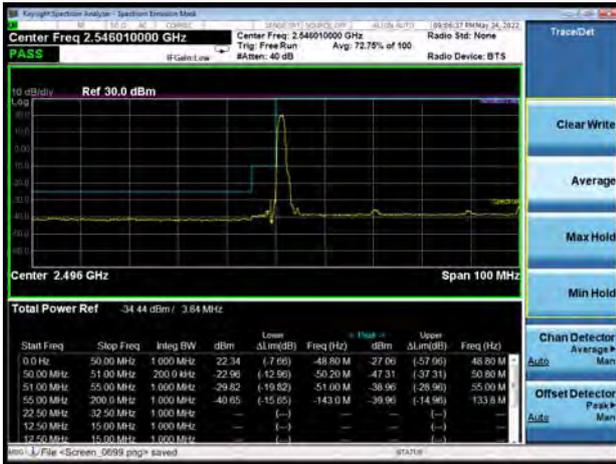


DC_28 A (subset 2)-n41A 16QAM 100MHz
CH-High 100%RB

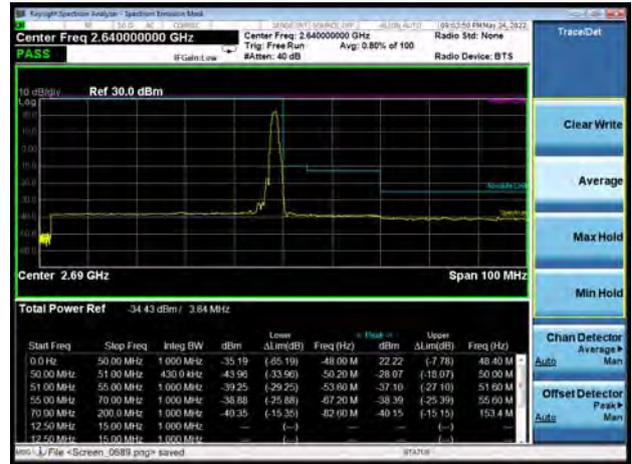




DC_28 A (subset 2)-n41A 64QAM 100MHz
CH-Low 1RB



DC_28 A (subset 2)-n41A 64QAM 100MHz
CH-High 1RB



DC_28 A (subset 2)-n41A 64QAM 100MHz
CH-Low 100%RB



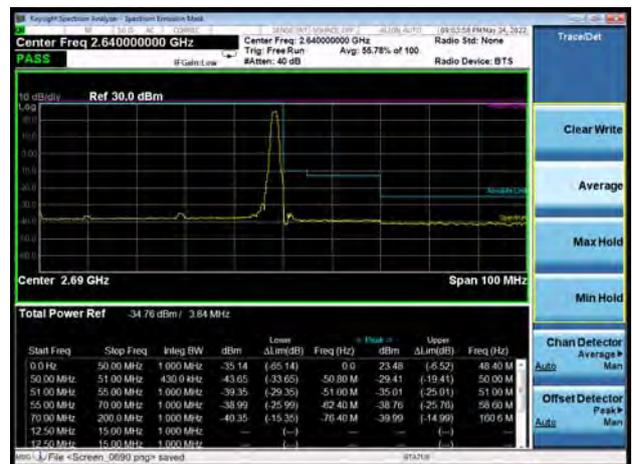
DC_28 A (subset 2)-n41A 64QAM 100MHz
CH-High 100%RB



DC_28 A (subset 2)-n41A 256QAM 100MHz
CH-Low 1RB



DC_28 A (subset 2)-n41A 256QAM 100MHz
CH-High 1RB





DC_28 A (subset 2)-n41A 256QAM 100MHz
CH-Low 100%RB

DC_28 A (subset 2)-n41A 256QAM 100MHz
CH-High 100%RB

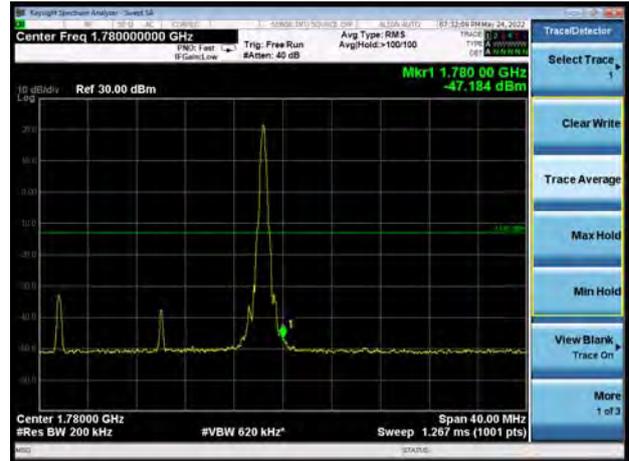




NR n66 P1/2 BPSK 20MHzCH-Low 1RB



NR n66 P1/2 BPSK 20MHzCH-High 1RB



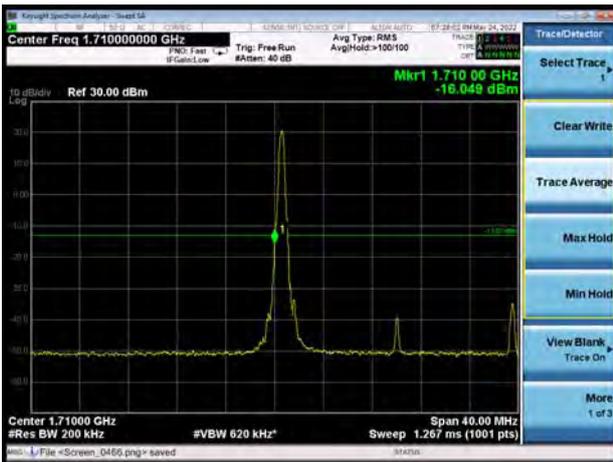
NR n66 P1/2 BPSK 20MHzCH-Low 100%RB



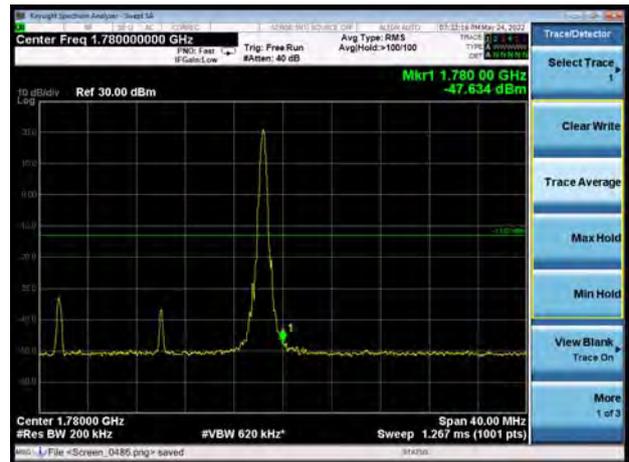
NR n66 P1/2 BPSK 20MHzCH-High 100%RB



NR n66 QPSK 20MHzCH-Low 1RB



NR n66 QPSK 20MHzCH-High 1RB





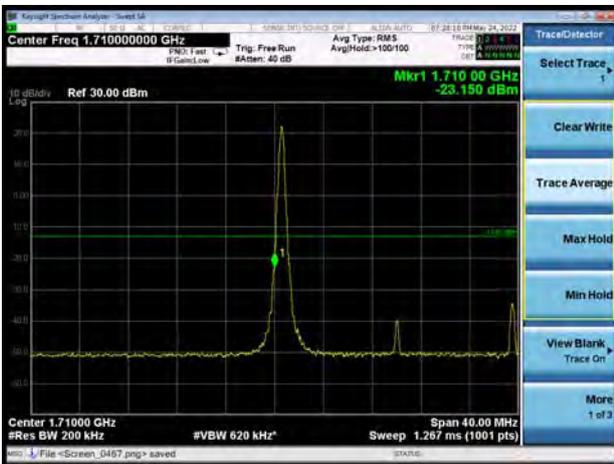
NR n66 QPSK 20MHzCH-Low 100%RB



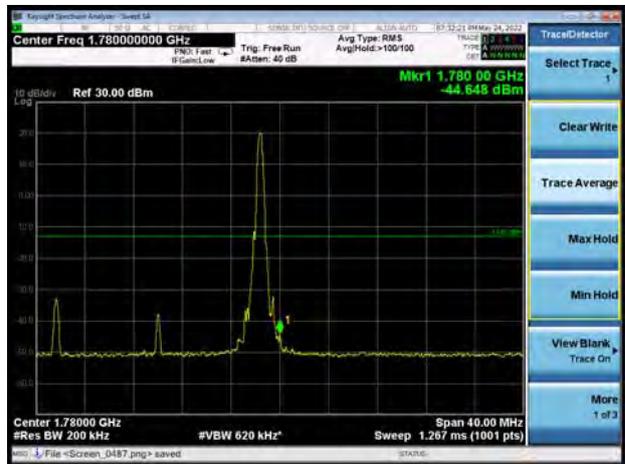
NR n66 QPSK 20MHzCH-High 100%RB



NR n66 16QAM 20MHzCH-Low 1RB



NR n66 16QAM 20MHzCH-High 1RB



NR n66 16QAM 20MHzCH-Low 100%RB

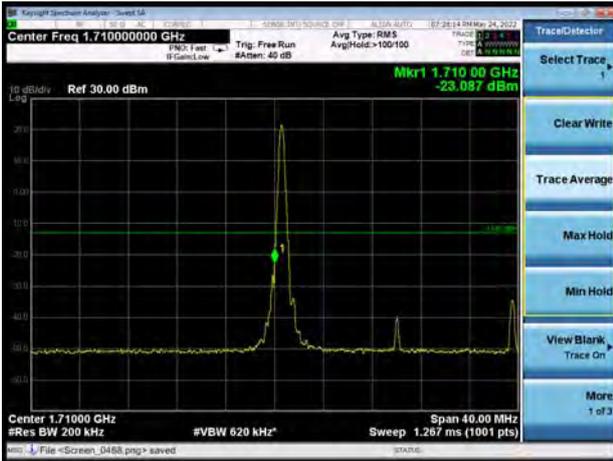


NR n66 16QAM 20MHzCH-High 100%RB

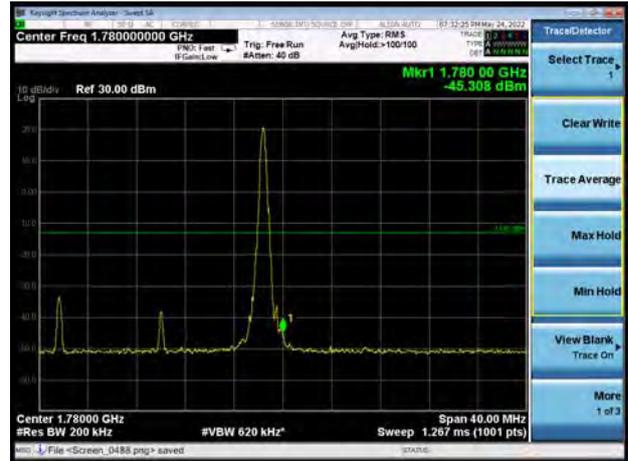




NR n66 64QAM 20MHzCH-Low 1RB



NR n66 64QAM 20MHzCH-High 1RB



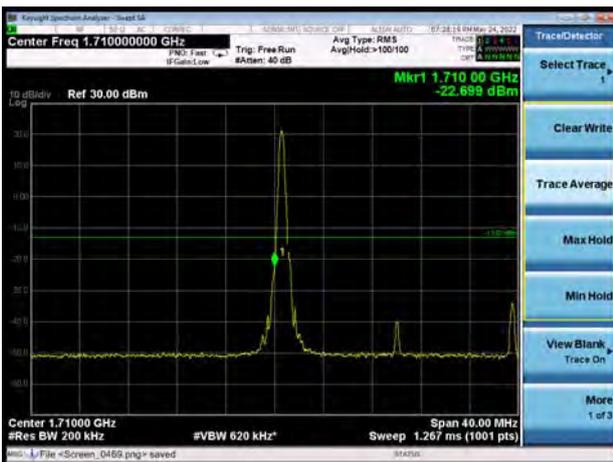
NR n66 64QAM 20MHzCH-Low 100%RB



NR n66 64QAM 20MHzCH-High 100%RB



NR n66 256QAM 20MHzCH-Low 1RB



NR n66 256QAM 20MHzCH-High 1RB





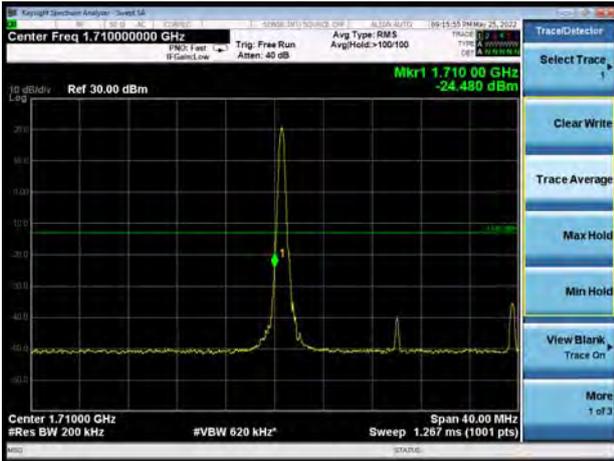
NR n66 256QAM 20MHzCH-Low 100%RB

NR n66 256QAM 20MHzCH-High 100%RB

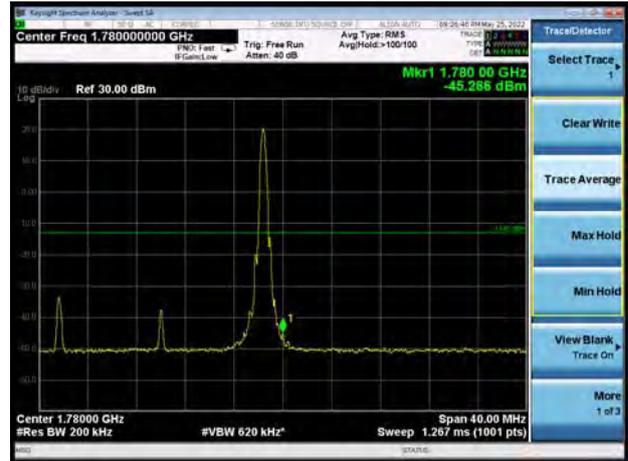




DC_5A-n66A P1/2 BPSK 20MHzCH-Low 1RB



DC_5A-n66A P1/2 BPSK 20MHzCH-High 1RB



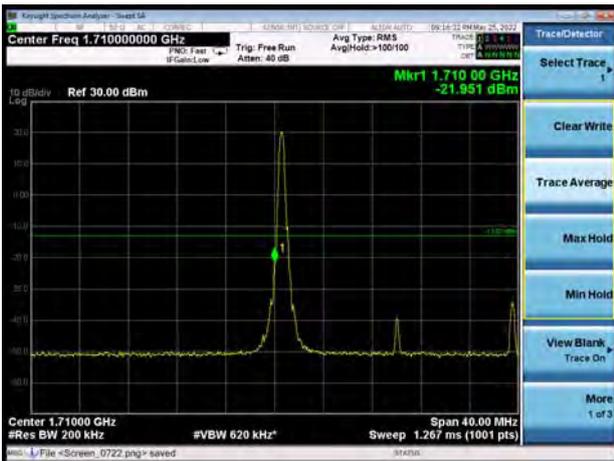
DC_5A-n66A P1/2 BPSK 20MHzCH-Low 100%RB



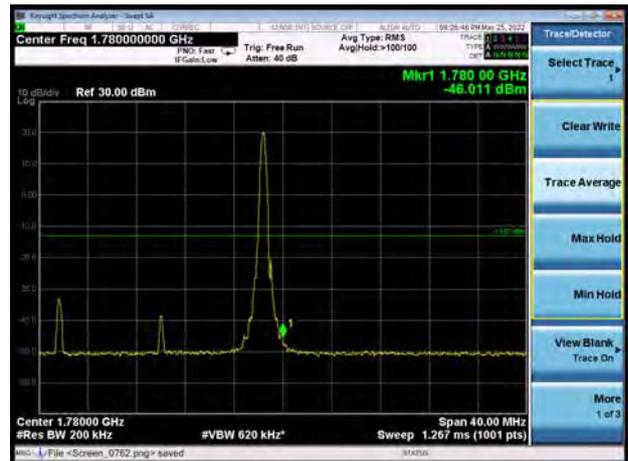
DC_5A-n66A P1/2 BPSK 20MHzCH-High 100%RB



DC_5A-n66A QPSK 20MHzCH-Low 1RB



DC_5A-n66A QPSK 20MHzCH-High 1RB





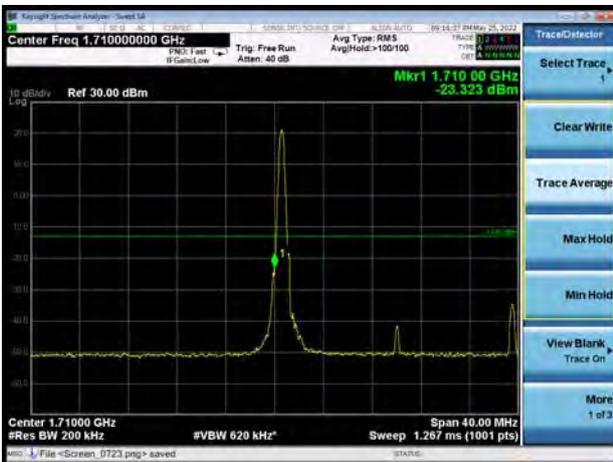
DC_5A-n66A QPSK 20MHzCH-Low 100%RB



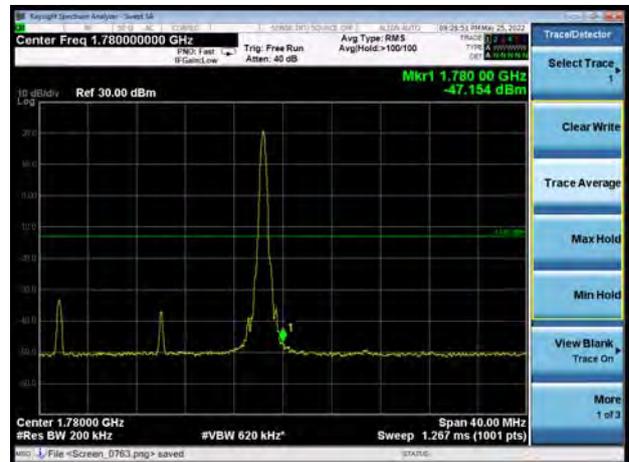
DC_5A-n66A QPSK 20MHzCH-High 100%RB



DC_5A-n66A 16QAM 20MHzCH-Low 1RB



DC_5A-n66A 16QAM 20MHzCH-High 1RB



DC_5A-n66A 16QAM 20MHzCH-Low 100%RB

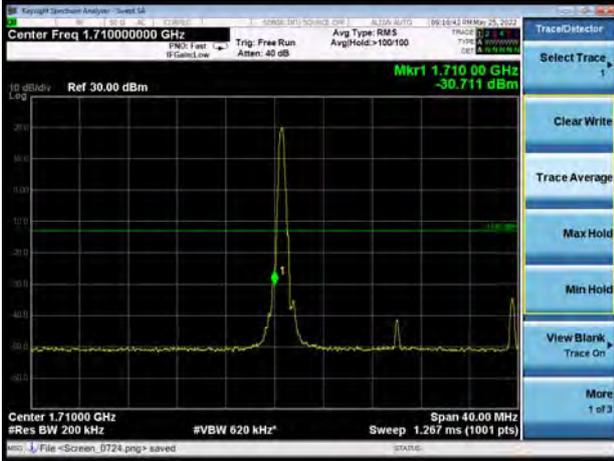


DC_5A-n66A 16QAM 20MHzCH-High 100%RB

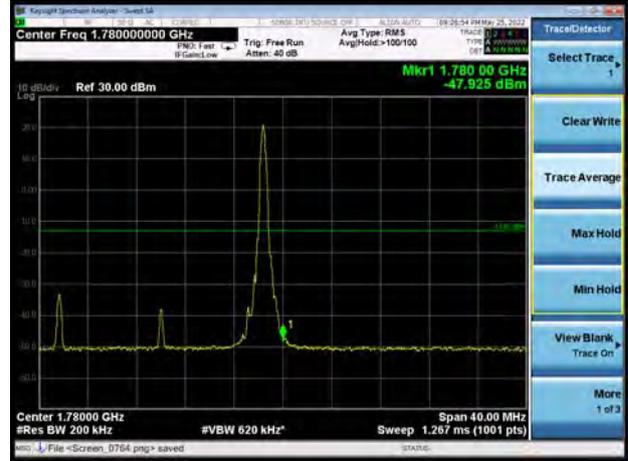




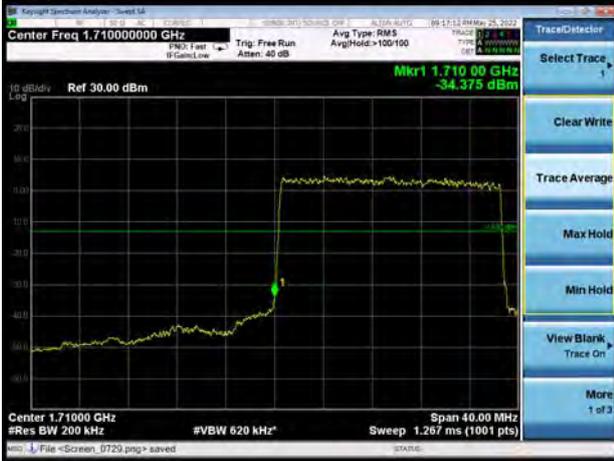
DC_5A-n66A 64QAM 20MHzCH-Low 1RB



DC_5A-n66A 64QAM 20MHzCH-High 1RB



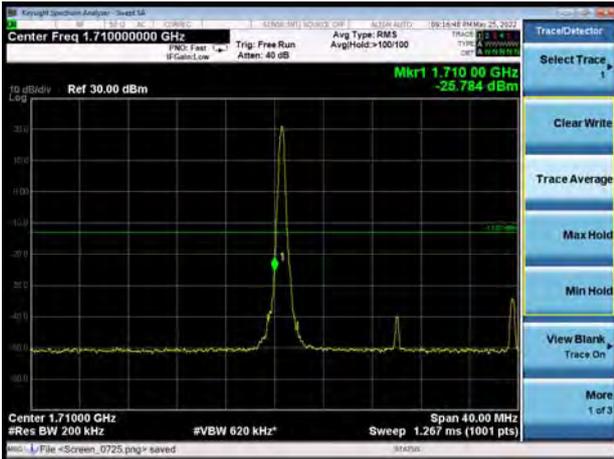
DC_5A-n66A 64QAM 20MHzCH-Low 100%RB



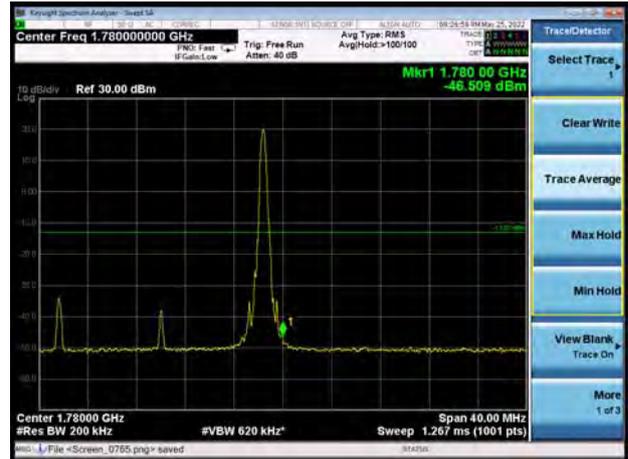
DC_5A-n66A 64QAM 20MHzCH-High 100%RB



DC_5A-n66A 256QAM 20MHzCH-Low 1RB



DC_5A-n66A 256QAM 20MHzCH-High 1RB





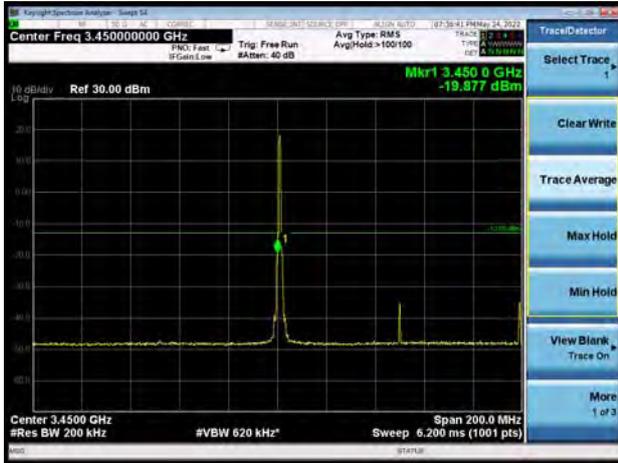
DC_5A-n66A 256QAM 20MHzCH-Low 100%RB

DC_5A-n66A 256QAM 20MHzCH-High 100%RB





NR n77 subset 1 P1/2 BPSK 100MHz CH-Low 1RB



NR n77 subset 1 P1/2 BPSK 100MHz CH-High 1RB



NR n77 subset 1 P1/2 BPSK 100MHz CH-Low 100%RB



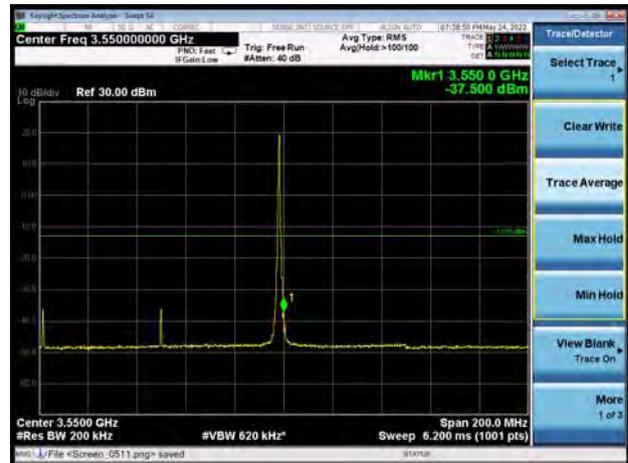
NR n77 subset 1 P1/2 BPSK 100MHz CH-High 100%RB



NR n77 subset 1 QPSK 100MHz CH-Low 1RB



NR n77 subset 1 QPSK 100MHz CH-High 1RB





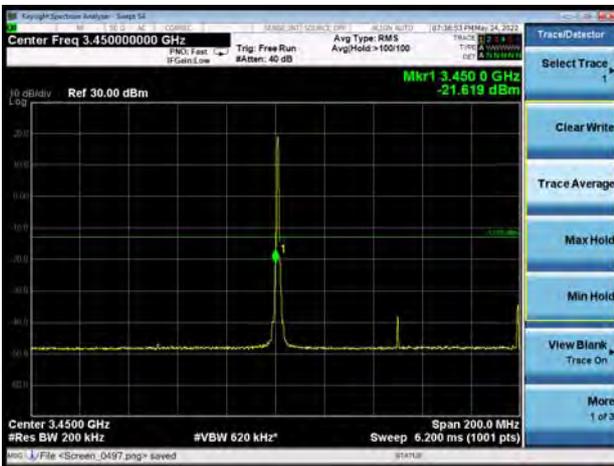
NR n77 subset 1 QPSK 100MHz CH-Low 100%RB



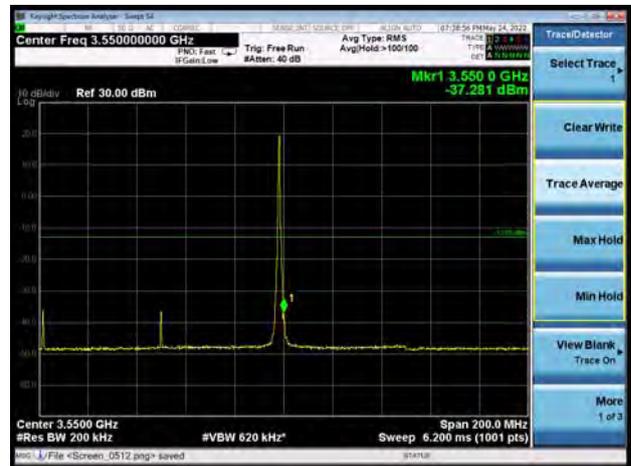
NR n77 subset 1 QPSK 100MHz CH-High 100%RB



NR n77 subset 1 16QAM 100MHz CH-Low 1RB



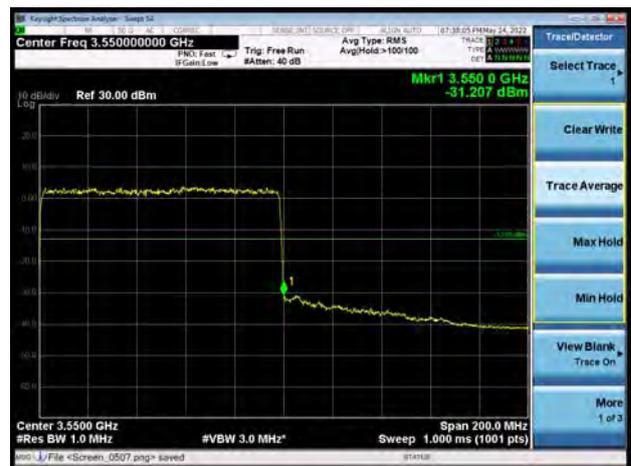
NR n77 subset 1 16QAM 100MHz CH-High 1RB



NR n77 subset 1 16QAM 100MHz CH-Low 100%RB

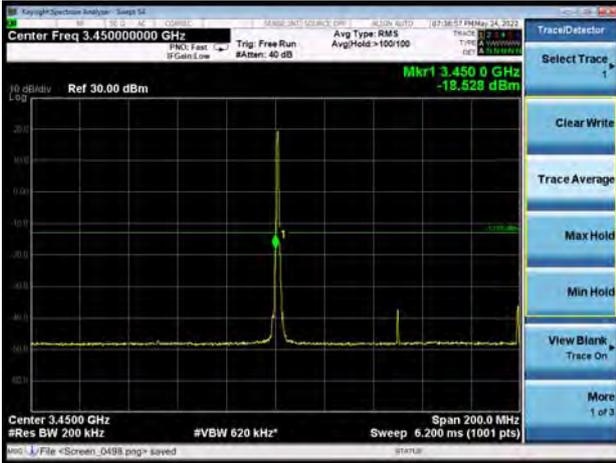


NR n77 subset 1 16QAM 100MHz CH-High 100%RB

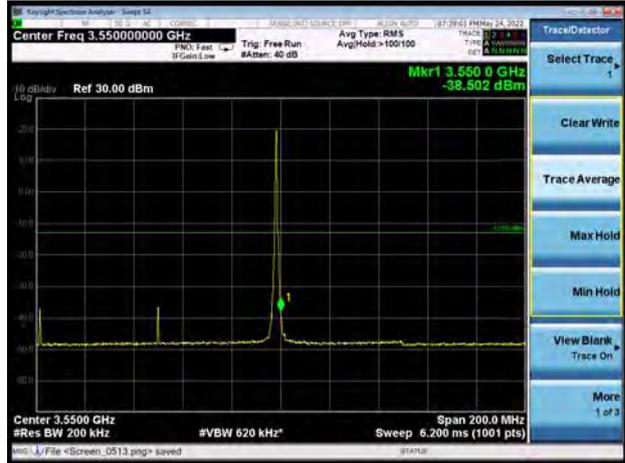




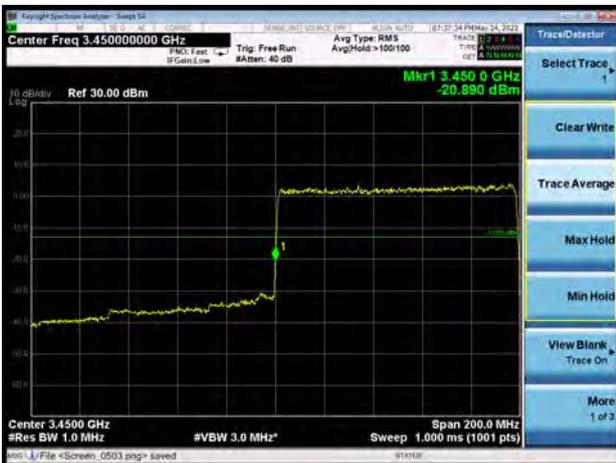
NR n77 subset 1 64QAM 100MHz CH-Low 1RB



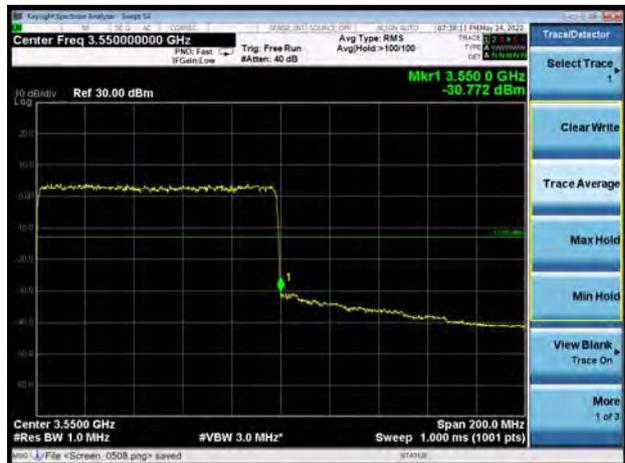
NR n77 subset 1 64QAM 100MHz CH-High 1RB



NR n77 subset 1 64QAM 100MHz CH-Low 100%RB



NR n77 subset 1 64QAM 100MHz CH-High 100%RB



NR n77 subset 1 256QAM 100MHz CH-Low 1RB



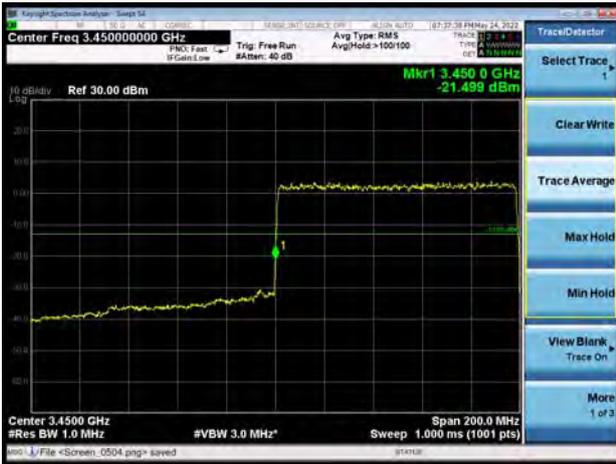
NR n77 subset 1 256QAM 100MHz CH-High 1RB



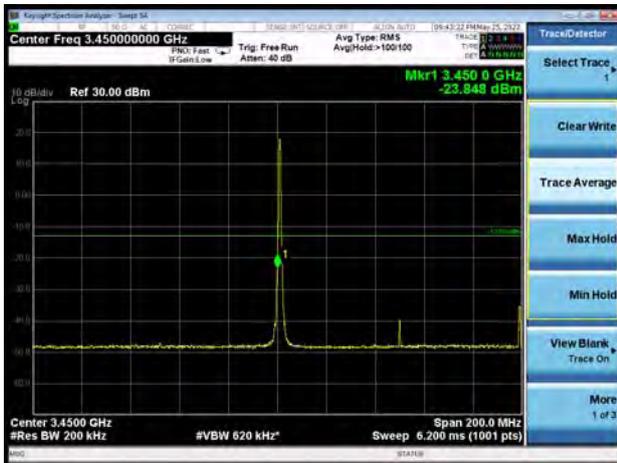


NR n77 subset 1 256QAM 100MHz CH-Low
100%RB

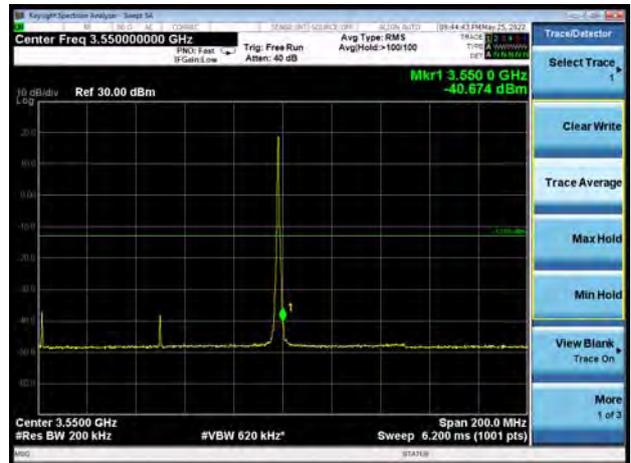
NR n77 subset 1 256QAM 100MHz CH-High
100%RB



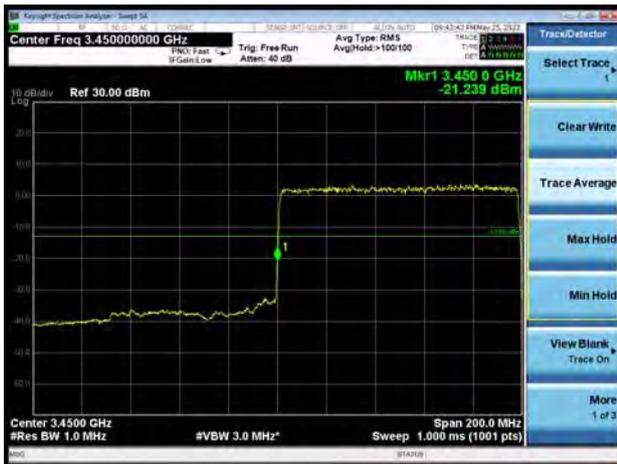
DC_5A-n77(subset 1)A P1/2 BPSK 100MHz
CH-Low 1RB



DC_5A-n77(subset 1)A P1/2 BPSK 100MHz
CH-High 1RB



DC_5A-n77(subset 1)A P1/2 BPSK 100MHz
CH-Low 100%RB



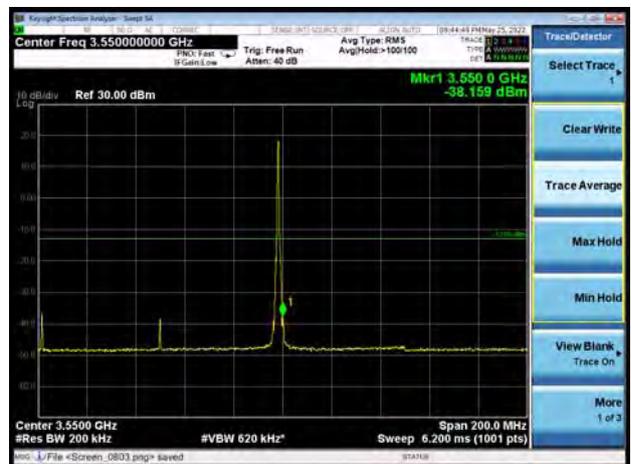
DC_5A-n77(subset 1)A P1/2 BPSK 100MHz
CH-High 100%RB



DC_5A-n77(subset 1)A QPSK 100MHz CH-Low
1RB



DC_5A-n77(subset 1)A QPSK 100MHz CH-High
1RB





DC_5A-n77(subset 1)A QPSK 100MHz CH-Low
100%RB



DC_5A-n77(subset 1)A QPSK 100MHz CH-High
100%RB



DC_5A-n77(subset 1)A 16QAM 100MHz CH-Low
1RB



DC_5A-n77(subset 1)A 16QAM 100MHz
CH-High 1RB



DC_5A-n77(subset 1)A 16QAM 100MHz CH-Low
100%RB

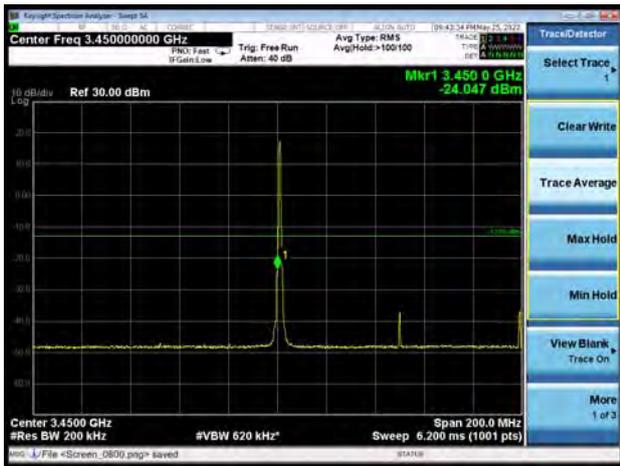


DC_5A-n77(subset 1)A 16QAM 100MHz
CH-High 100%RB





DC_5A-n77(subset 1)A 64QAM 100MHz CH-Low 1RB



DC_5A-n77(subset 1)A 64QAM 100MHz CH-High 1RB



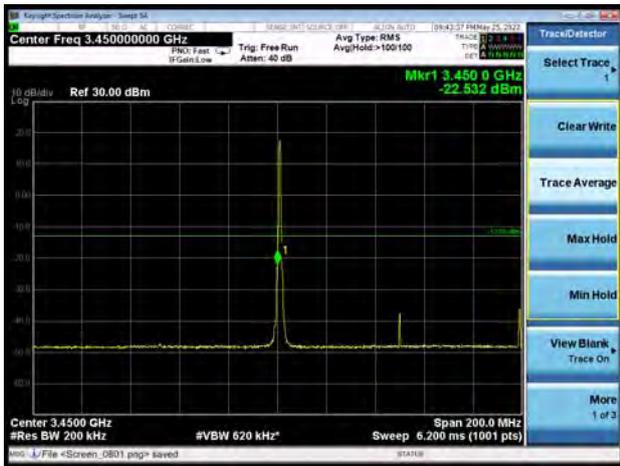
DC_5A-n77(subset 1)A 64QAM 100MHz CH-Low 100%RB



DC_5A-n77(subset 1)A 64QAM 100MHz CH-High 100%RB



DC_5A-n77(subset 1)A 256QAM 100MHz CH-Low 1RB



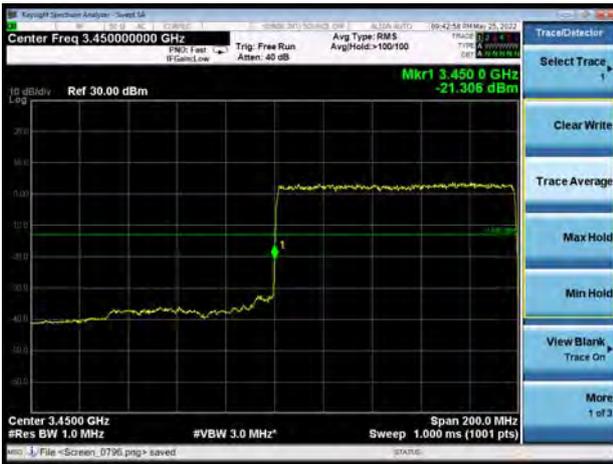
DC_5A-n77(subset 1)A 256QAM 100MHz CH-High 1RB





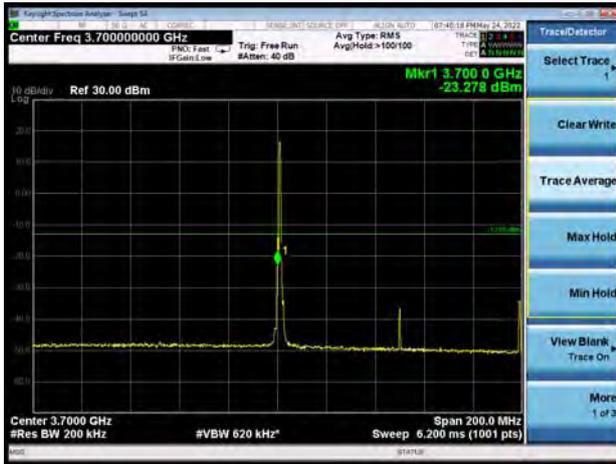
DC_5A-n77(subset 1)A 256QAM 100MHz
CH-Low 100%RB

DC_5A-n77(subset 1)A 256QAM 100MHz
CH-High 100%RB





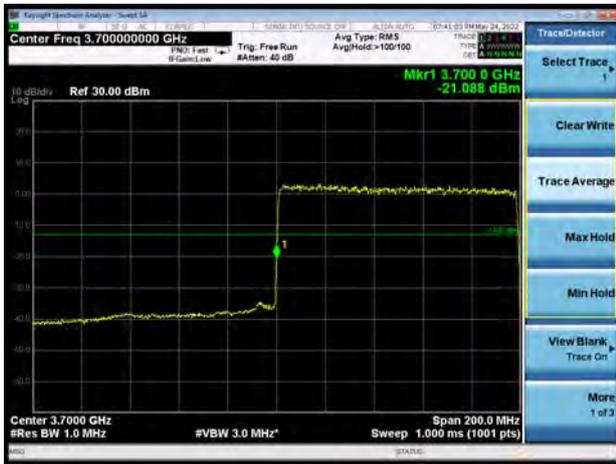
NR n77 subset 2 P1/2 BPSK 100MHz CH-Low 1RB



NR n77 subset 2 P1/2 BPSK 100MHz CH-High 1RB



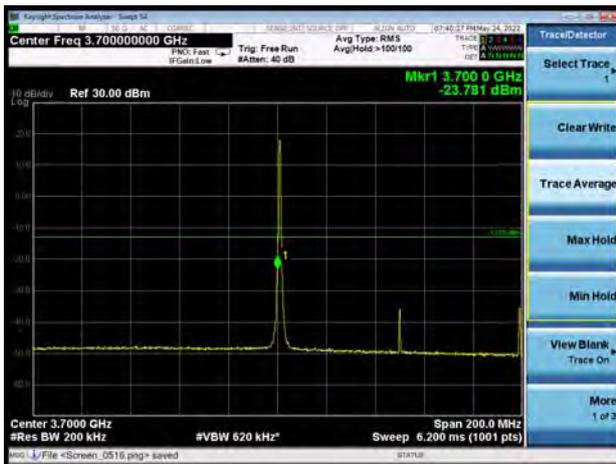
NR n77 subset 2 P1/2 BPSK 100MHz CH-Low 100%RB



NR n77 subset 2 P1/2 BPSK 100MHz CH-High 100%RB



NR n77 subset 2 QPSK 100MHz CH-Low 1RB

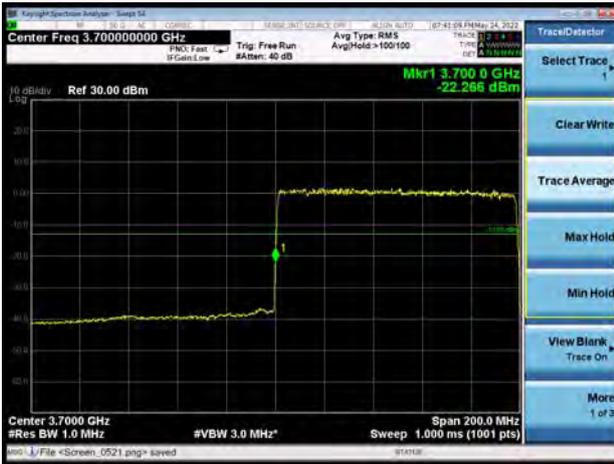


NR n77 subset 2 QPSK 100MHz CH-High 1RB





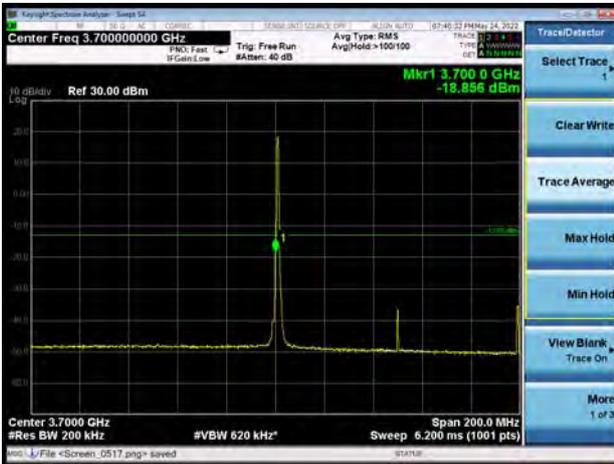
NR n77 subset 2 QPSK 100MHz CH-Low 100%RB



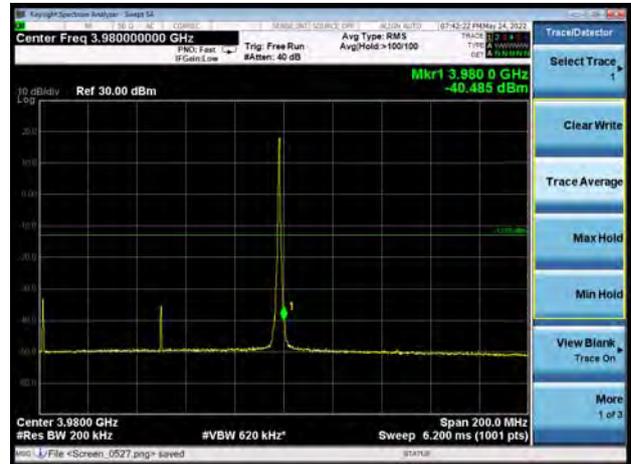
NR n77 subset 2 QPSK 100MHz CH-High 100%RB



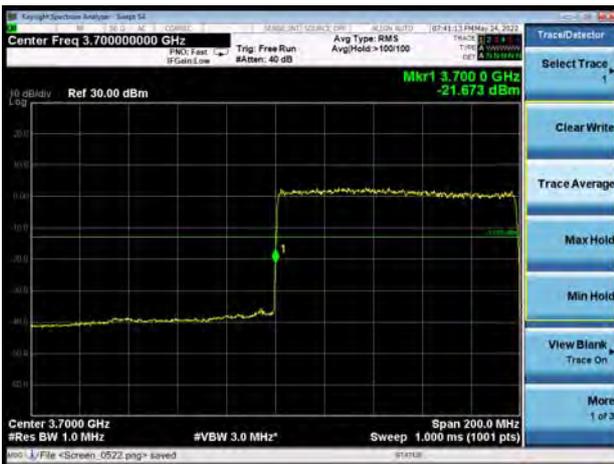
NR n77 subset 2 16QAM 100MHz CH-Low 1RB



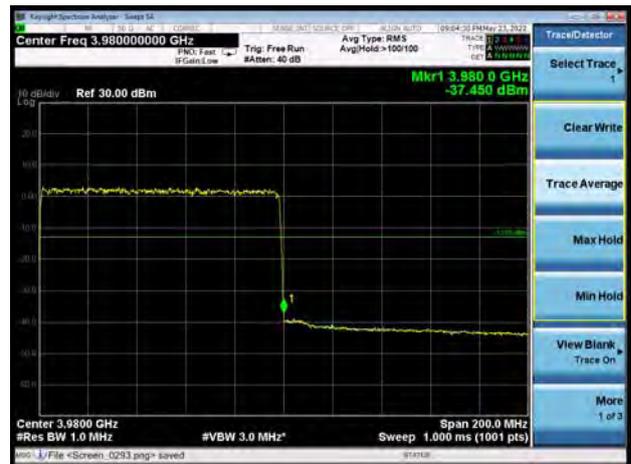
NR n77 subset 2 16QAM 100MHz CH-High 1RB



NR n77 subset 2 16QAM 100MHz CH-Low 100%RB

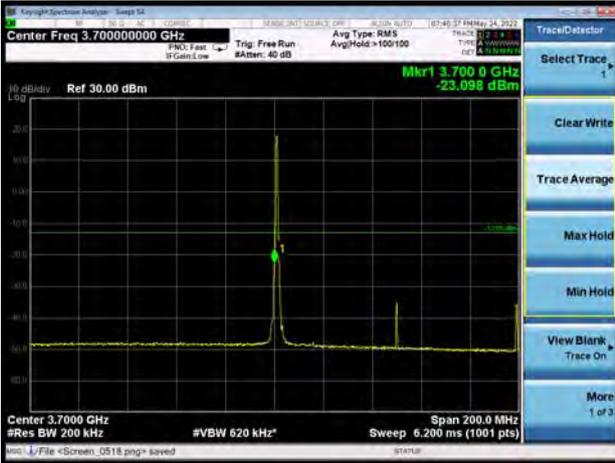


NR n77 subset 2 16QAM 100MHz CH-High 100%RB

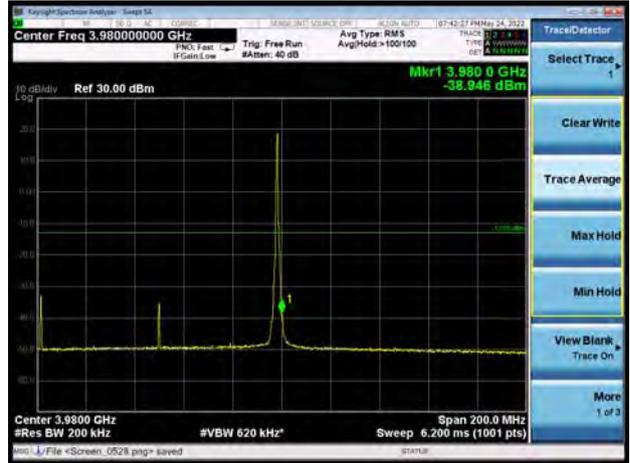




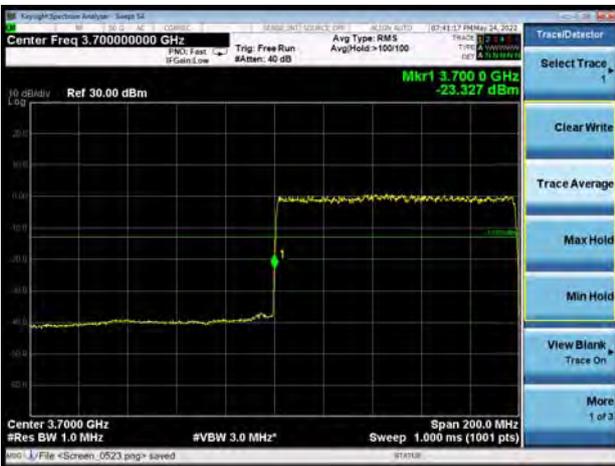
NR n77 subset 2 64QAM 100MHz CH-Low 1RB



NR n77 subset 2 64QAM 100MHz CH-High 1RB



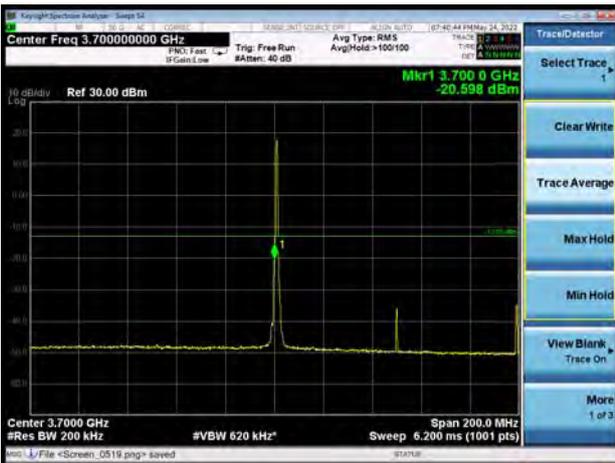
NR n77 subset 2 64QAM 100MHz CH-Low 100%RB



NR n77 subset 2 64QAM 100MHz CH-High 100%RB



NR n77 subset 2 256QAM 100MHz CH-Low 1RB



NR n77 subset 2 256QAM 100MHz CH-High 1RB





NR n77 subset 2 256QAM 100MHz CH-Low
100%RB

NR n77 subset 2 256QAM 100MHz CH-High
100%RB





DC_12A-n77(subset 2)A P1/2 BPSK 100MHz
CH-Low 1RB



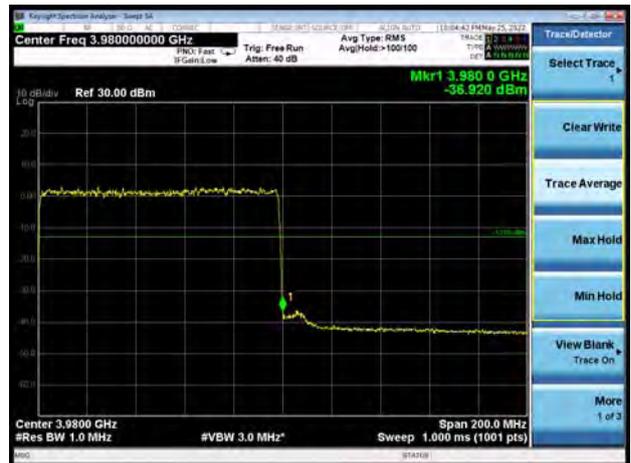
DC_12A-n77(subset 2)A P1/2 BPSK 100MHz
CH-High 1RB



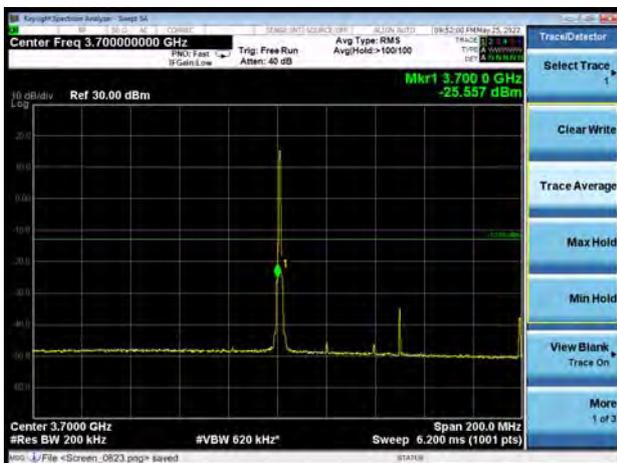
DC_12A-n77(subset 2)A P1/2 BPSK 100MHz
CH-Low 100%RB



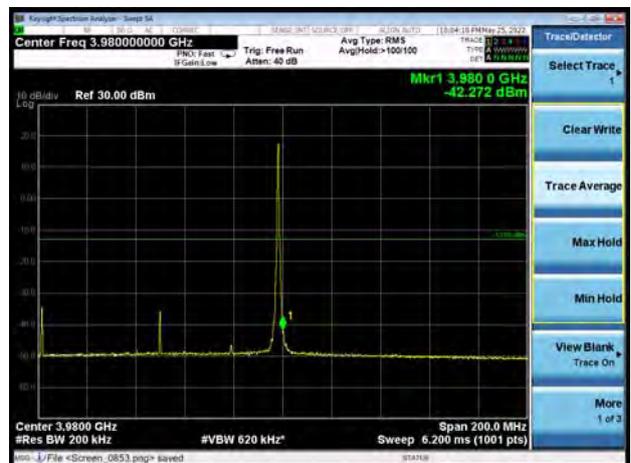
DC_12A-n77(subset 2)A P1/2 BPSK 100MHz
CH-High 100%RB



DC_12A-n77(subset 2)A QPSK 100MHz CH-Low
1RB



DC_12A-n77(subset 2)A QPSK 100MHz CH-High
1RB

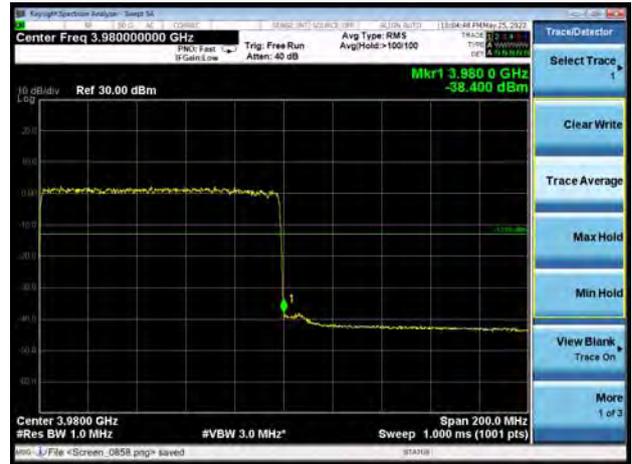




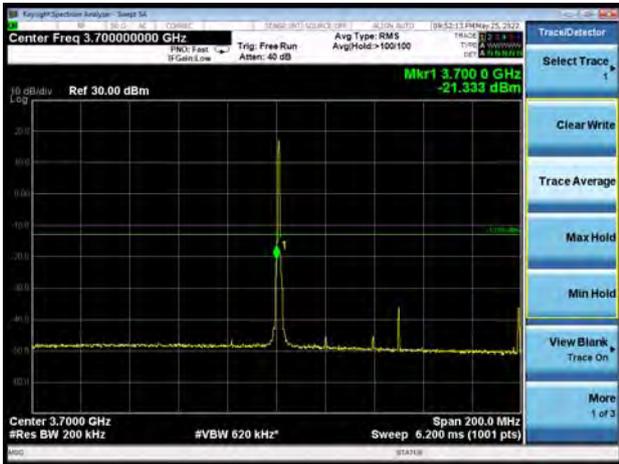
DC_12A-n77(subset 2)A QPSK 100MHz CH-Low 100%RB



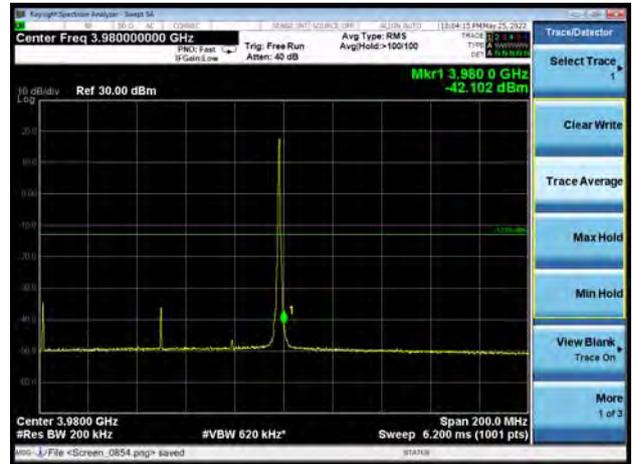
DC_12A-n77(subset 2)A QPSK 100MHz CH-High 100%RB



DC_12A-n77(subset 2)A 16QAM 100MHz CH-Low 1RB



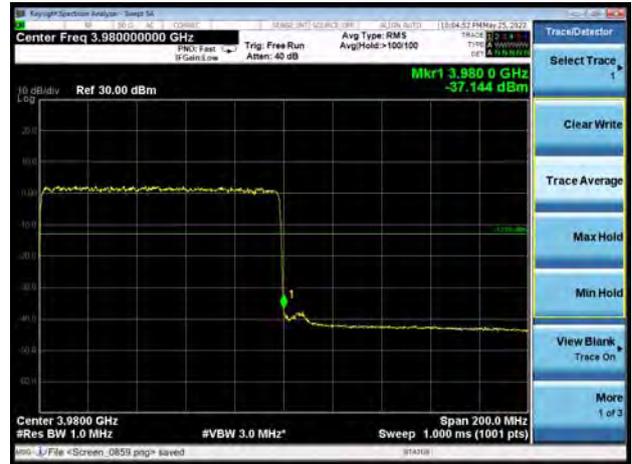
DC_12A-n77(subset 2)A 16QAM 100MHz CH-High 1RB



DC_12A-n77(subset 2)A 16QAM 100MHz CH-Low 100%RB

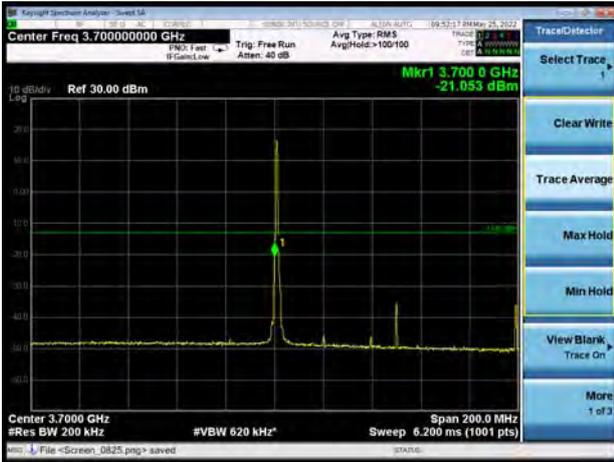


DC_12A-n77(subset 2)A 16QAM 100MHz CH-High 100%RB

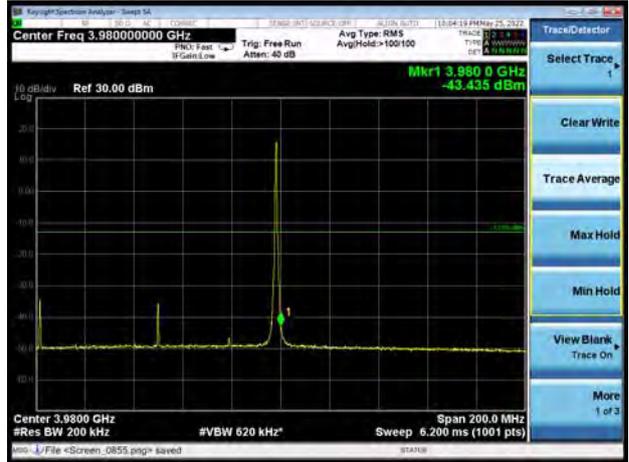




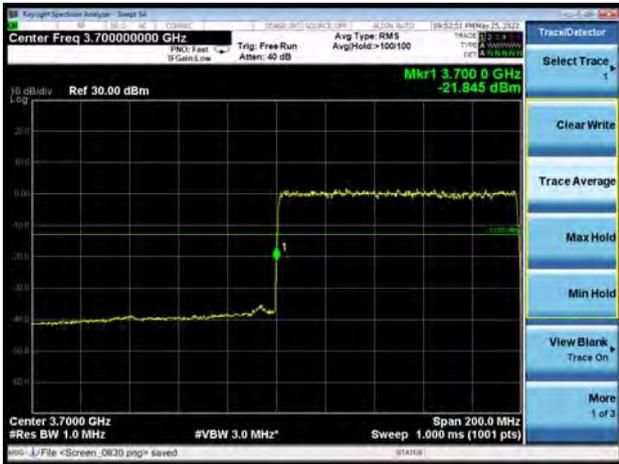
DC_12A-n77(subset 2)A 64QAM 100MHz
CH-Low 1RB



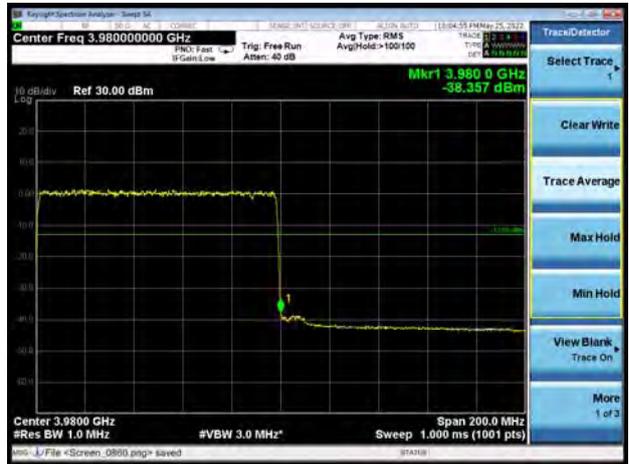
DC_12A-n77(subset 2)A 64QAM 100MHz
CH-High 1RB



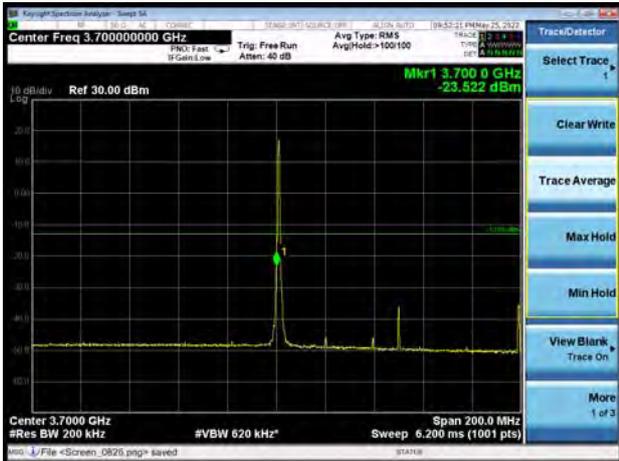
DC_12A-n77(subset 2)A 64QAM 100MHz
CH-Low 100%RB



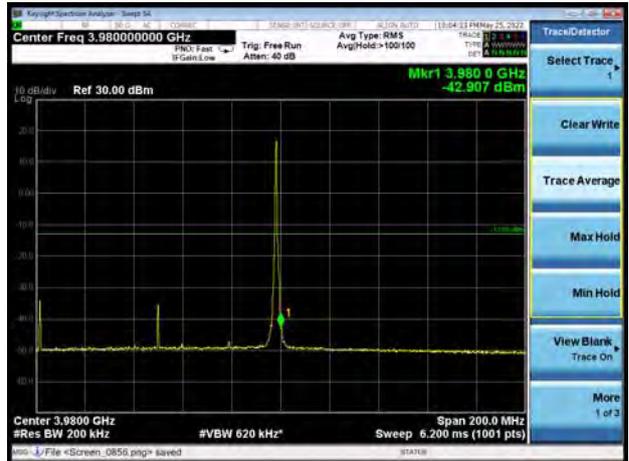
DC_12A-n77(subset 2)A 64QAM 100MHz
CH-High 100%RB



DC_12A-n77(subset 2)A 256QAM 100MHz
CH-Low 1RB



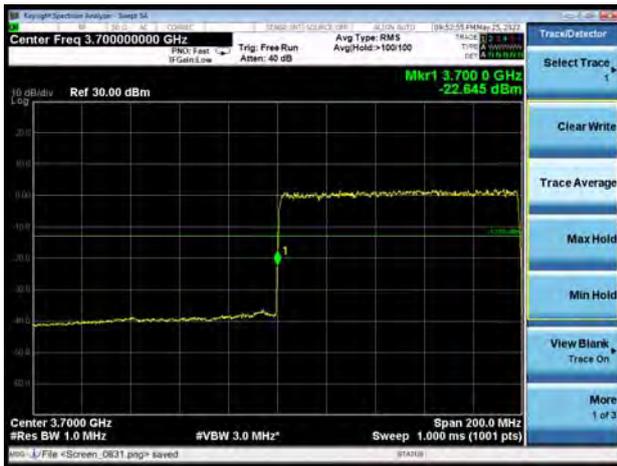
DC_12A-n77(subset 2)A 256QAM 100MHz
CH-High 1RB





DC_12A-n77(subset 2)A 256QAM 100MHz
CH-Low 100%RB

DC_12A-n77(subset 2)A 256QAM 100MHz
CH-High 100%RB



6.4 Peak-to-Average Power Ratio (PAPR)

WCDMA Band IV	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
RMC	1312	1712.4	26.41	23.76	2.65	≤13	PASS
	1413	1732.6	24.42	21.51	2.91	≤13	PASS
	1513	1752.6	24.41	21.68	2.73	≤13	PASS

LTE Band 4								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	19957	1710.7	27.72	22.94	4.78	≤13	PASS
		20175	1732.5	28.48	23.00	5.48	≤13	PASS
		20393	1754.3	28.35	22.97	5.38	≤13	PASS
	3	19965	1711.5	27.88	23.00	4.88	≤13	PASS
		20175	1732.5	28.41	23.06	5.35	≤13	PASS
		20385	1753.5	28.43	23.06	5.37	≤13	PASS
	5	19975	1712.5	28.02	23.04	4.98	≤13	PASS
		20175	1732.5	28.52	23.08	5.44	≤13	PASS
		20375	1752.5	28.59	23.14	5.45	≤13	PASS
	10	20000	1715	28.13	23.04	5.09	≤13	PASS
		20175	1732.5	28.44	23.03	5.41	≤13	PASS
		20350	1750	28.46	23.08	5.38	≤13	PASS
	15	20025	1717.5	28.27	22.86	5.41	≤13	PASS
		20175	1732.5	28.48	22.89	5.59	≤13	PASS
		20325	1747.5	28.49	22.90	5.59	≤13	PASS
	20	20050	1720	28.13	22.93	5.20	≤13	PASS
		20175	1732.5	28.28	22.92	5.36	≤13	PASS
		20300	1745	28.30	22.93	5.37	≤13	PASS
16QAM	1.4	19957	1710.7	27.74	21.97	5.77	≤13	PASS
		20175	1732.5	28.13	21.97	6.16	≤13	PASS
		20393	1754.3	28.31	22.05	6.26	≤13	PASS
	3	19965	1711.5	27.86	22.03	5.83	≤13	PASS
		20175	1732.5	28.23	22.03	6.20	≤13	PASS
		20385	1753.5	28.28	22.09	6.19	≤13	PASS
	5	19975	1712.5	27.94	22.05	5.89	≤13	PASS
		20175	1732.5	28.21	22.03	6.18	≤13	PASS
		20375	1752.5	28.29	22.10	6.19	≤13	PASS
	10	20000	1715	28.08	22.03	6.05	≤13	PASS



		20175	1732.5	28.23	22.04	6.19	≤13	PASS
		20350	1750	28.22	22.02	6.20	≤13	PASS
		20025	1717.5	28.04	21.91	6.13	≤13	PASS
	15	20175	1732.5	28.14	21.90	6.24	≤13	PASS
		20325	1747.5	28.12	21.89	6.23	≤13	PASS
		20050	1720	27.96	21.94	6.02	≤13	PASS
	20	20175	1732.5	28.02	21.91	6.11	≤13	PASS
		20300	1745	28.05	21.92	6.13	≤13	PASS
		19957	1710.7	27.35	21.45	5.90	≤13	PASS
64QAM	1.4	20175	1732.5	27.77	21.46	6.31	≤13	PASS
		20393	1754.3	27.80	21.52	6.28	≤13	PASS
		19965	1711.5	27.46	21.54	5.92	≤13	PASS
	3	20175	1732.5	27.76	21.51	6.25	≤13	PASS
		20385	1753.5	27.74	21.54	6.20	≤13	PASS
		19975	1712.5	27.53	21.54	5.99	≤13	PASS
	5	20175	1732.5	27.75	21.49	6.26	≤13	PASS
		20375	1752.5	27.77	21.60	6.17	≤13	PASS
		20000	1715	27.59	21.58	6.01	≤13	PASS
	10	20175	1732.5	27.78	21.56	6.22	≤13	PASS
		20350	1750	27.75	21.59	6.16	≤13	PASS
		20025	1717.5	27.60	21.44	6.16	≤13	PASS
	15	20175	1732.5	27.66	21.42	6.24	≤13	PASS
		20325	1747.5	27.67	21.45	6.22	≤13	PASS
		20050	1720	27.49	21.46	6.03	≤13	PASS
	20	20175	1732.5	27.56	21.45	6.11	≤13	PASS
		20300	1745	27.58	21.46	6.12	≤13	PASS

LTE Band 7								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	20775	2502.5	27.97	23.54	4.43	≤13	PASS
		21100	2535	28.62	23.40	5.22	≤13	PASS
		21425	2567.5	27.37	23.05	4.32	≤13	PASS
	10	20800	2505	28.25	23.53	4.72	≤13	PASS
		21100	2535	28.62	23.44	5.18	≤13	PASS
		21400	2565	27.74	23.26	4.48	≤13	PASS
	15	20825	2507.5	28.42	23.36	5.06	≤13	PASS
		21100	2535	28.68	23.23	5.45	≤13	PASS



	20	21375	2562.5	28.15	23.30	4.85	≤13	PASS
		20850	2510	28.31	23.38	4.93	≤13	PASS
		21100	2535	28.53	23.27	5.26	≤13	PASS
		21350	2560	28.23	23.35	4.88	≤13	PASS
16QAM	5	20775	2502.5	28.01	22.54	5.47	≤13	PASS
		21100	2535	28.45	22.37	6.08	≤13	PASS
		21425	2567.5	27.44	22.15	5.29	≤13	PASS
	10	20800	2505	28.18	22.49	5.69	≤13	PASS
		21100	2535	28.45	22.40	6.05	≤13	PASS
		21400	2565	27.76	22.34	5.42	≤13	PASS
	15	20825	2507.5	28.26	22.37	5.89	≤13	PASS
		21100	2535	28.42	22.25	6.17	≤13	PASS
		21375	2562.5	28.04	22.30	5.74	≤13	PASS
	20	20850	2510	28.23	22.39	5.84	≤13	PASS
		21100	2535	28.34	22.28	6.06	≤13	PASS
		21350	2560	28.13	22.31	5.82	≤13	PASS
64QAM	5	20775	2502.5	27.23	21.94	5.29	≤13	PASS
		21100	2535	27.93	21.91	6.02	≤13	PASS
		21425	2567.5	26.51	21.18	5.33	≤13	PASS
	10	20800	2505	27.46	21.98	5.48	≤13	PASS
		21100	2535	27.94	21.92	6.02	≤13	PASS
		21400	2565	26.86	21.42	5.44	≤13	PASS
	15	20825	2507.5	27.58	21.83	5.75	≤13	PASS
		21100	2535	27.89	21.76	6.13	≤13	PASS
		21375	2562.5	27.22	21.56	5.66	≤13	PASS
	20	20850	2510	27.59	21.84	5.75	≤13	PASS
		21100	2535	27.78	21.77	6.01	≤13	PASS
		21350	2560	27.39	21.68	5.71	≤13	PASS

LTE Band 12								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	23017	699.7	27.25	23.10	4.15	≤13	PASS
		23095	707.5	28.33	23.05	5.28	≤13	PASS



	3	23173	715.3	28.29	23.00	5.29	≤13	PASS
		23025	700.5	28.44	23.23	5.21	≤13	PASS
		23095	707.5	28.25	23.13	5.12	≤13	PASS
	5	23165	714.5	28.29	23.07	5.22	≤13	PASS
		23035	701.5	25.55	23.22	2.33	≤13	PASS
		23095	707.5	28.31	23.10	5.21	≤13	PASS
	10	23155	713.5	28.38	23.11	5.27	≤13	PASS
		23060	704	28.35	23.19	5.16	≤13	PASS
		23095	707.5	28.40	23.09	5.31	≤13	PASS
16QAM	1.4	23130	711	28.41	23.19	5.22	≤13	PASS
		23017	699.7	27.24	22.06	5.18	≤13	PASS
		23095	707.5	27.96	22.08	5.88	≤13	PASS
	3	23173	715.3	28.20	22.08	6.12	≤13	PASS
		23025	700.5	28.17	22.21	5.96	≤13	PASS
		23095	707.5	28.11	22.13	5.98	≤13	PASS
	5	23165	714.5	28.13	22.14	5.99	≤13	PASS
		23035	701.5	25.51	22.25	3.26	≤13	PASS
		23095	707.5	28.07	22.14	5.93	≤13	PASS
10	23155	713.5	28.13	22.11	6.02	≤13	PASS	
	23060	704	28.12	22.18	5.94	≤13	PASS	
	23095	707.5	28.18	22.13	6.05	≤13	PASS	
64QAM	1.4	23130	711	28.17	22.17	6.00	≤13	PASS
		23017	699.7	27.03	21.69	5.34	≤13	PASS
		23095	707.5	27.55	21.64	5.91	≤13	PASS
	3	23173	715.3	27.85	21.70	6.15	≤13	PASS
		23025	700.5	27.85	21.85	6.00	≤13	PASS
		23095	707.5	27.63	21.73	5.90	≤13	PASS
	5	23165	714.5	27.79	21.72	6.07	≤13	PASS
		23035	701.5	27.78	21.82	5.96	≤13	PASS
		23095	707.5	27.61	21.73	5.88	≤13	PASS
10	23155	713.5	27.71	21.73	5.98	≤13	PASS	
	23060	704	27.82	21.83	5.99	≤13	PASS	
	23095	707.5	27.76	21.75	6.01	≤13	PASS	
		23130	711	27.74	21.80	5.94	≤13	PASS

LTE Band 17								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	23755	706.5	28.35	23.38	4.97	≤13	PASS



	10	23790	710	28.52	23.35	5.17	≤13	PASS
		23825	713.5	28.56	23.34	5.22	≤13	PASS
		23780	709	28.49	23.29	5.20	≤13	PASS
		23790	710	28.45	23.31	5.14	≤13	PASS
		23800	711	28.41	23.32	5.09	≤13	PASS
16QAM	5	23755	706.5	28.21	22.39	5.82	≤13	PASS
		23790	710	28.20	22.33	5.87	≤13	PASS
		23825	713.5	28.33	22.35	5.98	≤13	PASS
	10	23780	709	28.29	22.31	5.98	≤13	PASS
		23790	710	28.28	22.32	5.96	≤13	PASS
		23800	711	28.20	22.25	5.95	≤13	PASS
64QAM	5	23755	706.5	27.69	21.85	5.84	≤13	PASS
		23790	710	27.75	21.85	5.90	≤13	PASS
		23825	713.5	27.81	21.85	5.96	≤13	PASS
	10	23780	709	27.79	21.80	5.99	≤13	PASS
		23790	710	27.75	21.81	5.94	≤13	PASS
		23800	711	27.70	21.77	5.93	≤13	PASS

LTE Band 66								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	131979	1710.7	27.76	23.47	4.29	≤13	PASS
		132322	1745	28.26	23.45	4.81	≤13	PASS
		132665	1779.3	28.05	23.60	4.45	≤13	PASS
	3	131987	1711.5	27.75	23.58	4.17	≤13	PASS
		132322	1745	28.24	23.51	4.73	≤13	PASS
		132657	1778.5	28.08	23.66	4.42	≤13	PASS
	5	131997	1712.5	27.79	23.60	4.19	≤13	PASS
		132322	1745	28.34	23.53	4.81	≤13	PASS
		132647	1777.5	28.17	23.70	4.47	≤13	PASS
	10	132022	1715	27.90	23.59	4.31	≤13	PASS
		132322	1745	28.37	23.51	4.86	≤13	PASS
		132622	1775	28.19	23.62	4.57	≤13	PASS
	15	132047	1717.5	28.28	23.46	4.82	≤13	PASS
		132322	1745	28.53	23.38	5.15	≤13	PASS
		132597	1772.5	28.30	23.45	4.85	≤13	PASS
	20	132072	1720	28.36	23.49	4.87	≤13	PASS
		132322	1745	28.43	23.40	5.03	≤13	PASS
		132572	1770	28.29	23.47	4.82	≤13	PASS



16QAM	1.4	131979	1710.7	27.64	22.49	5.15	≤13	PASS
		132322	1745	28.16	22.57	5.59	≤13	PASS
		132665	1779.3	28.02	22.65	5.37	≤13	PASS
	3	131987	1711.5	27.67	22.63	5.04	≤13	PASS
		132322	1745	28.14	22.49	5.65	≤13	PASS
		132657	1778.5	28.01	22.71	5.30	≤13	PASS
	5	131997	1712.5	27.69	22.60	5.09	≤13	PASS
		132322	1745	28.17	22.52	5.65	≤13	PASS
		132647	1777.5	28.03	22.70	5.33	≤13	PASS
	10	132022	1715	27.76	22.59	5.17	≤13	PASS
		132322	1745	28.20	22.52	5.68	≤13	PASS
		132622	1775	28.05	22.65	5.40	≤13	PASS
	15	132047	1717.5	28.04	22.49	5.55	≤13	PASS
		132322	1745	28.28	22.40	5.88	≤13	PASS
		132597	1772.5	28.05	22.47	5.58	≤13	PASS
	20	132072	1720	28.19	22.52	5.67	≤13	PASS
		132322	1745	28.26	22.43	5.83	≤13	PASS
		132572	1770	28.11	22.49	5.62	≤13	PASS
64QAM	1.4	131979	1710.7	27.05	21.88	5.17	≤13	PASS
		132322	1745	27.64	21.94	5.70	≤13	PASS
		132665	1779.3	27.40	21.99	5.41	≤13	PASS
	3	131987	1711.5	27.11	22.01	5.10	≤13	PASS
		132322	1745	27.59	21.91	5.68	≤13	PASS
		132657	1778.5	27.40	22.06	5.34	≤13	PASS
	5	131997	1712.5	27.08	21.98	5.10	≤13	PASS
		132322	1745	27.63	21.97	5.66	≤13	PASS
		132647	1777.5	27.43	22.10	5.33	≤13	PASS
	10	132022	1715	27.17	21.96	5.21	≤13	PASS
		132322	1745	27.69	21.94	5.75	≤13	PASS
		132622	1775	27.39	21.98	5.41	≤13	PASS
	15	132047	1717.5	27.45	21.83	5.62	≤13	PASS
		132322	1745	27.74	21.81	5.93	≤13	PASS
		132597	1772.5	27.40	21.82	5.58	≤13	PASS
	20	132072	1720	27.60	21.88	5.72	≤13	PASS
		132322	1745	27.71	21.83	5.88	≤13	PASS
		132572	1770	27.47	21.93	5.54	≤13	PASS



Bandwidth	PCC		SCC1		Modulation	Peak-to-Average Power Ratio (PAPR)		
	Channel	Frequency (MHz)	Channel	Frequency (MHz)		Peak (dBm)	Avg (dBm)	PAPR (dB)
CA_7C_10MHz+20MHz_QPSK	21006	2525.6	21150	2540	QPSK	33.46	27.64	5.82
CA_7C_10MHz+20MHz_16QAM	21006	2525.6	21150	2540	16QAM	33.34	26.69	6.65
CA_7C_10MHz+20MHz_64QAM	21006	2525.6	21150	2540	64QAM	32.01	25.92	6.09
CA_7C_20MHz+10MHz_QPSK	21051	2530.1	21195	2544.5	QPSK	33.66	27.65	6.01
CA_7C_20MHz+10MHz_16QAM	21051	2530.1	21195	2544.5	16QAM	33.43	26.64	6.79
CA_7C_20MHz+10MHz_64QAM	21051	2530.1	21195	2544.5	64QAM	32.13	25.96	6.17
CA_7C_15MHz+15MHz_QPSK	21025	2527.5	21175	2542.5	QPSK	33.68	27.63	6.05
CA_7C_15MHz+15MHz_16QAM	21025	2527.5	21175	2542.5	16QAM	33.48	26.68	6.80
CA_7C_15MHz+15MHz_64QAM	21025	2527.5	21175	2542.5	64QAM	32.17	25.94	6.23
CA_7C_15MHz+20MHz_QPSK	21003	2525.3	21174	2542.4	QPSK	33.02	26.86	6.16
CA_7C_15MHz+20MHz_16QAM	21003	2525.3	21174	2542.4	16QAM	32.74	25.87	6.87
CA_7C_15MHz+20MHz_64QAM	21003	2525.3	21174	2542.4	64QAM	32.09	25.94	6.15
CA_7C_20MHz+15MHz_QPSK	21026	2527.6	21197	2544.7	QPSK	33.62	27.65	5.97
CA_7C_20MHz+15MHz_16QAM	21026	2527.6	21197	2544.7	16QAM	33.43	26.65	6.78
CA_7C_20MHz+15MHz_64QAM	21026	2527.6	21197	2544.7	64QAM	32.15	25.95	6.20
CA_7C_20MHz+20MHz_QPSK	21001	2525.1	21199	2544.9	QPSK	33.64	27.65	5.99
CA_7C_20MHz+20MHz_16QAM	21001	2525.1	21199	2544.9	16QAM	33.40	26.66	6.74
CA_7C_20MHz+20MHz_64QAM	21001	2525.1	21199	2544.9	64QAM	32.16	25.94	6.22

NR n7								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	P1/2 BPSK	502000	2510	32.58	20.86	11.72	≤13	PASS
		507000	2535	32.99	21.03	11.96	≤13	PASS
		512000	2560	32.75	21.26	11.49	≤13	PASS
	QPSK	502000	2510	32.59	20.80	11.79	≤13	PASS
		507000	2535	32.91	20.58	12.33	≤13	PASS
		512000	2560	32.83	22.00	10.83	≤13	PASS
	16QAM	502000	2510	32.27	19.35	12.92	≤13	PASS
		507000	2535	32.56	19.93	12.63	≤13	PASS
		512000	2560	32.50	20.13	12.37	≤13	PASS
	64QAM	502000	2510	30.35	17.44	12.91	≤13	PASS
		507000	2535	30.52	18.08	12.44	≤13	PASS
		512000	2560	30.34	17.67	12.67	≤13	PASS
256QAM	502000	2510	30.46	17.65	12.81	≤13	PASS	
	507000	2535	30.49	17.85	12.64	≤13	PASS	
	512000	2560	30.44	18.27	12.17	≤13	PASS	



NR n41								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	P1/2 BPSK	509202	2546.01	26.39	21.45	4.94	≤13	PASS
		518598	2592.99	26.23	21.50	4.73	≤13	PASS
		528000	2640	27.79	21.92	5.87	≤13	PASS
	QPSK	509202	2546.01	27.13	21.52	5.61	≤13	PASS
		518598	2592.99	26.24	21.48	4.76	≤13	PASS
		528000	2640	27.64	21.76	5.88	≤13	PASS
	16QAM	509202	2546.01	27.89	21.71	6.18	≤13	PASS
		518598	2592.99	27.29	21.43	5.86	≤13	PASS
		528000	2640	28.36	22.12	6.24	≤13	PASS
	64QAM	509202	2546.01	28.07	21.76	6.31	≤13	PASS
		518598	2592.99	27.18	20.75	6.43	≤13	PASS
		528000	2640	26.90	20.15	6.75	≤13	PASS
	256QAM	509202	2546.01	28.12	21.74	6.38	≤13	PASS
		518598	2592.99	25.85	19.48	6.37	≤13	PASS
		528000	2640	26.99	20.27	6.72	≤13	PASS

DC_28 A (subset 2)-n41A									
Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	LTE B28-QPSK-5MHz-737MHz	P1/2 BPSK	509202	2546.01	26.93	21.44	5.49	≤13	PASS
			518598	2592.99	25.94	21.25	4.69	≤13	PASS
			528000	2640	27.49	21.63	5.86	≤13	PASS
		QPSK	509202	2546.01	26.84	21.34	5.50	≤13	PASS
			518598	2592.99	26.07	21.39	4.68	≤13	PASS
			528000	2640	27.29	21.36	5.93	≤13	PASS
		16QAM	509202	2546.01	27.55	21.33	6.22	≤13	PASS
			518598	2592.99	27.28	21.65	5.63	≤13	PASS
			528000	2640	28.13	21.83	6.30	≤13	PASS
		64QAM	509202	2546.01	27.06	20.37	6.69	≤13	PASS
			518598	2592.99	27.86	21.86	6.00	≤13	PASS
			528000	2640	26.51	19.88	6.63	≤13	PASS
		256QAM	509202	2546.01	26.74	20.12	6.62	≤13	PASS
			518598	2592.99	27.80	21.72	6.08	≤13	PASS
			528000	2640	26.69	19.99	6.70	≤13	PASS



NR n66								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	P1/2 BPSK	344000	1720	33.94	22.31	11.63	≤13	PASS
		349000	1745	34.19	22.41	11.78	≤13	PASS
		354000	1770	33.92	22.39	11.53	≤13	PASS
	QPSK	344000	1720	33.98	22.59	11.39	≤13	PASS
		349000	1745	34.19	22.06	12.13	≤13	PASS
		354000	1770	33.96	22.95	11.01	≤13	PASS
	16QAM	344000	1720	33.62	20.80	12.82	≤13	PASS
		349000	1745	33.94	21.78	12.16	≤13	PASS
		354000	1770	33.66	21.71	11.95	≤13	PASS
	64QAM	344000	1720	31.68	19.20	12.48	≤13	PASS
		349000	1745	31.91	19.60	12.31	≤13	PASS
		354000	1770	31.66	19.51	12.15	≤13	PASS
	256QAM	344000	1720	31.76	19.52	12.24	≤13	PASS
		349000	1745	31.81	18.97	12.84	≤13	PASS
		354000	1770	31.68	19.53	12.15	≤13	PASS



DC_5A-n66A									
Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	Band5-10MHz-836.5 MHz-QPSK-1#0	P1/2 BPSK	344000	1720	32.34	22.42	9.92	≤13	PASS
			349000	1745	33.31	21.86	11.45	≤13	PASS
			354000	1770	33.02	21.10	11.92	≤13	PASS
		QPSK	344000	1720	33.14	21.26	11.88	≤13	PASS
			349000	1745	33.26	21.07	12.19	≤13	PASS
			354000	1770	33.04	21.13	11.91	≤13	PASS
		16QAM	344000	1720	32.94	20.81	12.13	≤13	PASS
			349000	1745	33.27	20.93	12.34	≤13	PASS
			354000	1770	32.96	21.09	11.87	≤13	PASS
		64QAM	344000	1720	32.75	20.51	12.24	≤13	PASS
			349000	1745	31.36	18.67	12.69	≤13	PASS
			354000	1770	31.03	18.18	12.85	≤13	PASS
		256QAM	344000	1720	32.64	19.79	12.85	≤13	PASS
			349000	1745	31.44	19.33	12.11	≤13	PASS
			354000	1770	31.15	19.05	12.10	≤13	PASS

NR n77 subset 1								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	P1/2 BPSK	/	/	/	/	/	≤13	PASS
		633334	3500	27.99	22.27	5.72	≤13	PASS
		/	/	/	/	/	≤13	PASS
	QPSK	/	/	/	/	/	≤13	PASS
		633334	3500	27.76	22.05	5.71	≤13	PASS
		/	/	/	/	/	≤13	PASS
	16QAM	/	/	/	/	/	≤13	PASS
		633334	3500	28.35	22.05	6.30	≤13	PASS
		/	/	/	/	/	≤13	PASS
	64QAM	/	/	/	/	/	≤13	PASS
		633334	3500	27.36	20.73	6.63	≤13	PASS
		/	/	/	/	/	≤13	PASS
	256QAM	/	/	/	/	/	≤13	PASS
		633334	3500	27.41	20.74	6.67	≤13	PASS
		/	/	/	/	/	≤13	PASS



DC_5A-n77 subset 1A									
Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	Band5-5MHz-836.5M Hz-QPSK-1#0	P1/2 BPSK	650000	3480	/	/	/	≤13	PASS
			656000	3500	25.62	21.15	4.47	≤13	PASS
			662000	3520	/	/	/	≤13	PASS
		QPSK	650000	3480	/	/	/	≤13	PASS
			656000	3500	26.70	20.95	5.75	≤13	PASS
			662000	3520	/	/	/	≤13	PASS
		16QAM	650000	3480	/	/	/	≤13	PASS
			656000	3500	27.33	20.91	6.42	≤13	PASS
			662000	3520	/	/	/	≤13	PASS
		64QAM	650000	3480	/	/	/	≤13	PASS
			656000	3500	27.57	21.09	6.48	≤13	PASS
			662000	3520	/	/	/	≤13	PASS
256QAM	650000	3480	/	/	/	≤13	PASS		
	656000	3500	27.58	21.12	6.46	≤13	PASS		
	662000	3520	/	/	/	≤13	PASS		

NR n77 subset 2								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	P1/2 BPSK	650000	3750	26.90	21.27	5.63	≤13	PASS
		656000	3840	26.64	21.09	5.55	≤13	PASS
		662000	3930	26.75	21.20	5.55	≤13	PASS
	QPSK	650000	3750	26.80	21.24	5.56	≤13	PASS
		656000	3840	26.74	21.26	5.48	≤13	PASS
		662000	3930	26.73	21.17	5.56	≤13	PASS
	16QAM	650000	3750	27.46	21.14	6.32	≤13	PASS
		656000	3840	27.39	21.06	6.33	≤13	PASS
		662000	3930	27.62	21.27	6.35	≤13	PASS
	64QAM	650000	3750	26.30	19.74	6.56	≤13	PASS
		656000	3840	26.40	19.75	6.65	≤13	PASS
		662000	3930	26.33	19.67	6.66	≤13	PASS
256QAM	650000	3750	26.47	19.82	6.65	≤13	PASS	
	656000	3840	26.42	19.79	6.63	≤13	PASS	
	662000	3930	26.37	19.68	6.69	≤13	PASS	



DC_12A-n77 subset 2A									
Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	Band12-5MHz-707.5 MHz-QPSK-1#0	P1/2 BPSK	650000	3750	25.70	20.10	5.60	≤13	PASS
			656000	3840	25.82	20.33	5.49	≤13	PASS
			662000	3930	25.54	20.05	5.49	≤13	PASS
		QPSK	650000	3750	25.58	19.95	5.63	≤13	PASS
			656000	3840	25.65	20.10	5.55	≤13	PASS
			662000	3930	25.48	20.02	5.46	≤13	PASS
		16QAM	650000	3750	26.43	20.12	6.31	≤13	PASS
			656000	3840	26.51	20.24	6.27	≤13	PASS
			662000	3930	26.19	19.90	6.29	≤13	PASS
		64QAM	650000	3750	25.30	18.61	6.69	≤13	PASS
			656000	3840	25.33	18.65	6.68	≤13	PASS
			662000	3930	25.09	18.42	6.67	≤13	PASS
		256QAM	650000	3750	25.33	18.62	6.71	≤13	PASS
			656000	3840	25.52	18.86	6.66	≤13	PASS
			662000	3930	24.92	18.31	6.61	≤13	PASS



6.5 Frequency Stability

WCDMA IV						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	BPSK	QPSK	BPSK	QPSK	
Normal (25°C)	Normal	2.11	11.59	0.00122	0.00669	PASS
Extreme (50°C)		9.76	17.82	0.00563	0.01028	PASS
Extreme (40°C)		17.01	11.23	0.00982	0.00648	PASS
Extreme (30°C)		5.57	7.01	0.00321	0.00405	PASS
Extreme (20°C)		14.06	10.86	0.00811	0.00627	PASS
Extreme (10°C)		8.78	1.82	0.00507	0.00105	PASS
Extreme (0°C)		12.16	6.73	0.00702	0.00388	PASS
Extreme (-10°C)		4.57	14.93	0.00264	0.00862	PASS
Extreme (-20°C)		14.22	5.91	0.00821	0.00341	PASS
Extreme (-30°C)		3.76	2.64	0.00217	0.00152	PASS
25°C		LV	4.41	12.86	0.00255	0.00742
	HV	7.81	10.04	0.00451	0.00580	PASS

LTE Band 4								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	9.36	4.04	7.35	0.00540	0.00233	0.00424	PASS
Extreme (50°C)		14.88	14.66	7.11	0.00859	0.00846	0.00411	PASS
Extreme (40°C)		11.55	1.75	14.68	0.00667	0.00101	0.00847	PASS
Extreme (30°C)		5.59	12.73	14.48	0.00323	0.00735	0.00836	PASS
Extreme (20°C)		15.63	5.69	6.72	0.00902	0.00328	0.00388	PASS
Extreme (10°C)		7.93	12.91	5.59	0.00457	0.00745	0.00322	PASS
Extreme (0°C)		13.04	13.85	12.62	0.00753	0.00800	0.00729	PASS
Extreme (-10°C)		3.59	7.62	17.41	0.00207	0.00440	0.01005	PASS
Extreme (-20°C)		14.86	3.81	5.39	0.00858	0.00220	0.00311	PASS
Extreme (-30°C)		2.89	2.56	16.73	0.00167	0.00148	0.00966	PASS
25°C		LV	8.74	7.77	8.61	0.00504	0.00448	0.00497
	HV	17.62	9.08	13.70	0.01017	0.00524	0.00791	PASS



Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	1.86	6.85	11.64	0.00107	0.00395	0.00672	PASS
Extreme (50°C)		12.08	4.66	10.05	0.00697	0.00269	0.00580	PASS
Extreme (40°C)		12.05	9.96	9.45	0.00696	0.00575	0.00545	PASS
Extreme (30°C)		14.21	15.96	1.19	0.00820	0.00921	0.00069	PASS
Extreme (20°C)		5.12	4.42	15.82	0.00296	0.00255	0.00913	PASS
Extreme (10°C)		4.63	6.70	2.73	0.00267	0.00387	0.00158	PASS
Extreme (0°C)		13.63	15.55	11.50	0.00787	0.00898	0.00664	PASS
Extreme (-10°C)		12.01	15.70	7.46	0.00693	0.00906	0.00431	PASS
Extreme (-20°C)		14.62	15.32	4.99	0.00844	0.00885	0.00288	PASS
Extreme (-30°C)		9.33	1.09	9.44	0.00539	0.00063	0.00545	PASS
25°C		LV	13.44	3.77	8.47	0.00776	0.00217	0.00489
	HV	2.02	8.05	5.32	0.00116	0.00464	0.00307	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.88	14.98	8.68	0.01032	0.00865	0.00501	PASS
Extreme (50°C)		16.17	3.47	11.73	0.00934	0.00201	0.00677	PASS
Extreme (40°C)		10.51	9.76	16.40	0.00607	0.00564	0.00946	PASS
Extreme (30°C)		2.15	14.71	2.14	0.00124	0.00849	0.00124	PASS
Extreme (20°C)		1.86	17.02	7.83	0.00107	0.00983	0.00452	PASS
Extreme (10°C)		4.98	11.79	5.70	0.00287	0.00680	0.00329	PASS
Extreme (0°C)		14.44	5.06	1.26	0.00833	0.00292	0.00073	PASS
Extreme (-10°C)		12.10	3.46	14.32	0.00698	0.00200	0.00827	PASS
Extreme (-20°C)		9.38	4.47	11.42	0.00541	0.00258	0.00659	PASS
Extreme (-30°C)		2.88	11.44	13.70	0.00166	0.00660	0.00791	PASS
25°C		LV	15.85	13.63	17.46	0.00915	0.00787	0.01008
	HV	9.16	5.56	17.38	0.00529	0.00321	0.01003	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.90	9.47	9.45	0.00341	0.00546	0.00545	PASS
Extreme (50°C)		17.18	5.23	3.95	0.00992	0.00302	0.00228	PASS
Extreme (40°C)		2.79	11.32	13.74	0.00161	0.00653	0.00793	PASS
Extreme (30°C)		12.17	13.67	2.39	0.00703	0.00789	0.00138	PASS



Extreme (20°C)		2.96	15.17	10.43	0.00171	0.00875	0.00602	PASS
Extreme (10°C)		16.20	16.51	12.03	0.00935	0.00953	0.00695	PASS
Extreme (0°C)		12.05	10.81	2.68	0.00696	0.00624	0.00155	PASS
Extreme (-10°C)		3.36	16.19	1.97	0.00194	0.00935	0.00114	PASS
Extreme (-20°C)		11.27	3.64	13.31	0.00651	0.00210	0.00768	PASS
Extreme (-30°C)		12.35	12.57	14.66	0.00713	0.00726	0.00846	PASS
25°C	LV	3.83	5.30	10.85	0.00221	0.00306	0.00626	PASS
	HV	1.09	11.93	7.83	0.00063	0.00689	0.00452	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	14.75	9.96	8.86	0.00852	0.00575	0.00512	PASS
Extreme (50°C)		1.55	14.08	7.34	0.00090	0.00813	0.00424	PASS
Extreme (40°C)		14.28	11.51	13.13	0.00824	0.00664	0.00758	PASS
Extreme (30°C)		13.49	15.85	3.43	0.00779	0.00915	0.00198	PASS
Extreme (20°C)		3.31	9.38	11.31	0.00191	0.00542	0.00653	PASS
Extreme (10°C)		17.43	16.98	15.39	0.01006	0.00980	0.00888	PASS
Extreme (0°C)		8.13	2.24	6.73	0.00469	0.00129	0.00388	PASS
Extreme (-10°C)		9.37	12.78	6.62	0.00541	0.00738	0.00382	PASS
Extreme (-20°C)		10.84	1.15	13.29	0.00626	0.00066	0.00767	PASS
Extreme (-30°C)		17.87	12.26	4.79	0.01031	0.00708	0.00276	PASS
25°C	LV	5.19	5.71	14.53	0.00300	0.00329	0.00838	PASS
	HV	12.71	4.68	15.37	0.00733	0.00270	0.00887	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	16.91	16.53	8.10	0.00976	0.00954	0.00468	PASS
Extreme (50°C)		2.67	6.69	5.78	0.00154	0.00386	0.00334	PASS
Extreme (40°C)		5.83	7.45	12.33	0.00337	0.00430	0.00712	PASS
Extreme (30°C)		17.36	2.80	7.79	0.01002	0.00162	0.00450	PASS
Extreme (20°C)		1.80	9.99	14.62	0.00104	0.00577	0.00844	PASS
Extreme (10°C)		8.05	5.54	9.80	0.00464	0.00320	0.00566	PASS
Extreme (0°C)		4.83	15.31	3.45	0.00279	0.00884	0.00199	PASS
Extreme (-10°C)		14.93	7.38	7.82	0.00862	0.00426	0.00451	PASS
Extreme (-20°C)		16.52	5.60	11.55	0.00953	0.00323	0.00667	PASS
Extreme (-30°C)		3.26	2.54	17.06	0.00188	0.00146	0.00985	PASS
25°C	LV	14.41	1.02	6.24	0.00832	0.00059	0.00360	PASS
	HV	6.74	13.21	17.67	0.00389	0.00762	0.01020	PASS



LTE Band 7								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.88	13.36	15.90	0.00311	0.00527	0.00627	PASS
Extreme (50°C)		8.68	14.61	2.34	0.00342	0.00576	0.00092	PASS
Extreme (40°C)		6.05	4.35	16.74	0.00239	0.00172	0.00660	PASS
Extreme (30°C)		2.65	15.85	1.41	0.00104	0.00625	0.00056	PASS
Extreme (20°C)		7.77	6.66	17.88	0.00306	0.00263	0.00705	PASS
Extreme (10°C)		9.52	1.45	12.57	0.00376	0.00057	0.00496	PASS
Extreme (0°C)		16.67	16.84	6.89	0.00658	0.00664	0.00272	PASS
Extreme (-10°C)		12.96	15.33	1.56	0.00511	0.00605	0.00062	PASS
Extreme (-20°C)		4.33	16.87	7.83	0.00171	0.00666	0.00309	PASS
Extreme (-30°C)		16.81	3.62	11.17	0.00663	0.00143	0.00441	PASS
25°C	LV	8.70	2.18	17.53	0.00343	0.00086	0.00692	PASS
	HV	10.05	15.07	15.75	0.00397	0.00594	0.00621	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.14	2.66	11.87	0.00676	0.00105	0.00468	PASS
Extreme (50°C)		9.05	1.65	10.65	0.00357	0.00065	0.00420	PASS
Extreme (40°C)		6.02	2.43	7.58	0.00238	0.00096	0.00299	PASS
Extreme (30°C)		17.65	10.25	11.18	0.00696	0.00404	0.00441	PASS
Extreme (20°C)		6.25	16.97	14.40	0.00246	0.00670	0.00568	PASS
Extreme (10°C)		7.68	10.48	16.26	0.00303	0.00413	0.00641	PASS
Extreme (0°C)		6.33	12.96	16.95	0.00250	0.00511	0.00669	PASS
Extreme (-10°C)		14.12	10.10	8.02	0.00557	0.00398	0.00316	PASS
Extreme (-20°C)		10.38	5.62	7.91	0.00410	0.00222	0.00312	PASS
Extreme (-30°C)		9.62	3.33	14.87	0.00379	0.00131	0.00586	PASS
25°C	LV	6.45	15.13	8.81	0.00255	0.00597	0.00348	PASS
	HV	8.57	2.92	5.24	0.00338	0.00115	0.00207	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	12.06	12.49	9.29	0.00476	0.00493	0.00366	PASS
Extreme (50°C)		7.53	16.20	11.25	0.00297	0.00639	0.00444	PASS
Extreme (40°C)		9.75	2.59	1.56	0.00385	0.00102	0.00062	PASS



Extreme (30°C)		6.32	3.94	16.36	0.00249	0.00155	0.00645	PASS
Extreme (20°C)		9.90	3.60	17.55	0.00391	0.00142	0.00692	PASS
Extreme (10°C)		17.16	4.89	10.76	0.00677	0.00193	0.00424	PASS
Extreme (0°C)		17.92	14.87	13.74	0.00707	0.00587	0.00542	PASS
Extreme (-10°C)		2.07	4.56	4.37	0.00082	0.00180	0.00172	PASS
Extreme (-20°C)		1.89	3.54	3.59	0.00074	0.00140	0.00142	PASS
Extreme (-30°C)		11.82	9.28	6.71	0.00466	0.00366	0.00265	PASS
25°C	LV	1.32	15.10	4.97	0.00052	0.00596	0.00196	PASS
	HV	12.44	9.29	1.28	0.00491	0.00367	0.00050	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	12.93	2.28	8.46	0.00510	0.00090	0.00334	PASS
Extreme (50°C)		7.09	14.61	13.08	0.00280	0.00576	0.00516	PASS
Extreme (40°C)		1.15	16.64	8.34	0.00045	0.00656	0.00329	PASS
Extreme (30°C)		14.72	5.47	13.30	0.00581	0.00216	0.00525	PASS
Extreme (20°C)		14.55	8.95	3.54	0.00574	0.00353	0.00140	PASS
Extreme (10°C)		4.26	9.44	5.67	0.00168	0.00373	0.00224	PASS
Extreme (0°C)		1.14	5.51	14.49	0.00045	0.00217	0.00571	PASS
Extreme (-10°C)		16.69	11.59	10.26	0.00658	0.00457	0.00405	PASS
Extreme (-20°C)		16.75	4.00	7.38	0.00661	0.00158	0.00291	PASS
Extreme (-30°C)		17.61	1.66	11.65	0.00695	0.00066	0.00460	PASS
25°C	LV	16.28	6.24	3.63	0.00642	0.00246	0.00143	PASS
	HV	9.32	11.19	7.67	0.00368	0.00441	0.00303	PASS

LTE Band 12								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.43	15.84	15.08	0.01050	0.02239	0.02132	PASS
Extreme (50°C)		11.15	6.95	17.05	0.01576	0.00983	0.02410	PASS
Extreme (40°C)		5.89	4.16	15.40	0.00832	0.00589	0.02176	PASS
Extreme (30°C)		5.97	7.20	9.11	0.00843	0.01018	0.01288	PASS
Extreme (20°C)		4.76	9.18	15.84	0.00673	0.01298	0.02240	PASS
Extreme (10°C)		17.59	4.45	9.37	0.02486	0.00629	0.01324	PASS
Extreme (0°C)		5.89	4.54	7.58	0.00833	0.00642	0.01071	PASS
Extreme (-10°C)		15.45	13.17	13.25	0.02184	0.01862	0.01873	PASS
Extreme (-20°C)		5.68	14.96	4.06	0.00803	0.02114	0.00574	PASS
Extreme (-30°C)		7.40	2.24	3.62	0.01046	0.00316	0.00511	PASS



25℃	LV	1.12	12.08	7.93	0.00159	0.01708	0.01120	PASS
	HV	14.47	6.37	8.33	0.02045	0.00900	0.01177	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	6.28	6.01	10.40	0.00887	0.00850	0.01470	PASS
Extreme (50℃)		14.93	12.31	14.00	0.02110	0.01739	0.01979	PASS
Extreme (40℃)		6.63	6.42	16.55	0.00937	0.00908	0.02339	PASS
Extreme (30℃)		12.97	17.68	15.20	0.01833	0.02500	0.02149	PASS
Extreme (20℃)		15.53	14.63	8.28	0.02195	0.02068	0.01170	PASS
Extreme (10℃)		13.97	15.02	1.31	0.01975	0.02123	0.00185	PASS
Extreme (0℃)		15.62	16.86	14.62	0.02208	0.02383	0.02066	PASS
Extreme (-10℃)		15.89	12.84	11.25	0.02247	0.01815	0.01591	PASS
Extreme (-20℃)		14.17	15.44	8.79	0.02002	0.02182	0.01243	PASS
Extreme (-30℃)		12.67	12.87	14.89	0.01791	0.01820	0.02105	PASS
25℃	LV	5.61	11.76	17.06	0.00793	0.01662	0.02411	PASS
	HV	7.52	7.26	1.20	0.01063	0.01026	0.00169	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	10.16	1.39	5.84	0.01436	0.00197	0.00826	PASS
Extreme (50℃)		4.26	1.41	16.01	0.00602	0.00199	0.02263	PASS
Extreme (40℃)		9.18	6.22	4.20	0.01297	0.00880	0.00594	PASS
Extreme (30℃)		15.96	8.62	2.79	0.02256	0.01218	0.00394	PASS
Extreme (20℃)		6.51	9.18	1.45	0.00921	0.01298	0.00204	PASS
Extreme (10℃)		12.54	15.06	14.66	0.01772	0.02129	0.02072	PASS
Extreme (0℃)		3.30	16.92	14.56	0.00466	0.02392	0.02058	PASS
Extreme (-10℃)		11.97	3.57	16.35	0.01691	0.00505	0.02310	PASS
Extreme (-20℃)		1.71	5.19	13.40	0.00241	0.00733	0.01893	PASS
Extreme (-30℃)		16.82	17.95	17.98	0.02377	0.02537	0.02542	PASS
25℃	LV	4.58	2.24	16.92	0.00648	0.00316	0.02391	PASS
	HV	10.33	3.76	15.58	0.01460	0.00531	0.02202	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	3.38	11.71	15.49	0.00477	0.01655	0.02189	PASS
Extreme (50℃)		13.57	12.11	6.28	0.01918	0.01712	0.00887	PASS



Extreme (40°C)		1.46	9.41	14.60	0.00207	0.01330	0.02064	PASS
Extreme (30°C)		13.02	6.90	11.19	0.01841	0.00975	0.01582	PASS
Extreme (20°C)		13.07	4.52	12.77	0.01847	0.00639	0.01805	PASS
Extreme (10°C)		9.66	6.42	5.36	0.01366	0.00907	0.00757	PASS
Extreme (0°C)		11.93	10.56	11.73	0.01686	0.01492	0.01657	PASS
Extreme (-10°C)		12.21	14.77	4.84	0.01725	0.02088	0.00684	PASS
Extreme (-20°C)		13.62	8.11	13.33	0.01925	0.01147	0.01883	PASS
Extreme (-30°C)		2.47	17.08	16.56	0.00349	0.02414	0.02341	PASS
25°C	LV	4.32	1.39	5.78	0.00611	0.00196	0.00816	PASS
	HV	16.49	5.99	3.41	0.02331	0.00847	0.00483	PASS

LTE Band 17								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	16.66	12.84	10.71	0.02347	0.01809	0.01508	PASS
Extreme (50°C)		6.15	17.78	11.54	0.00866	0.02504	0.01625	PASS
Extreme (40°C)		2.71	1.02	7.00	0.00382	0.00144	0.00986	PASS
Extreme (30°C)		9.51	1.33	10.18	0.01340	0.00188	0.01434	PASS
Extreme (20°C)		12.46	3.40	17.44	0.01754	0.00478	0.02457	PASS
Extreme (10°C)		11.16	5.92	14.45	0.01572	0.00834	0.02035	PASS
Extreme (0°C)		2.20	17.65	16.63	0.00309	0.02486	0.02342	PASS
Extreme (-10°C)		17.19	6.03	5.67	0.02421	0.00849	0.00799	PASS
Extreme (-20°C)		15.40	10.96	17.90	0.02168	0.01544	0.02521	PASS
Extreme (-30°C)		5.87	12.08	10.68	0.00827	0.01701	0.01504	PASS
25°C		LV	3.06	17.80	10.61	0.00431	0.02507	0.01495
	HV	14.46	13.14	11.31	0.02037	0.01851	0.01593	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	3.99	11.95	13.97	0.00562	0.01683	0.01968	PASS
Extreme (50°C)		4.75	4.09	15.47	0.00669	0.00576	0.02179	PASS
Extreme (40°C)		16.57	8.27	17.71	0.02334	0.01164	0.02495	PASS
Extreme (30°C)		13.17	10.86	7.03	0.01856	0.01529	0.00990	PASS
Extreme (20°C)		8.21	3.16	12.04	0.01156	0.00445	0.01696	PASS
Extreme (10°C)		14.26	13.83	1.66	0.02008	0.01947	0.00233	PASS
Extreme (0°C)		13.73	16.97	16.76	0.01934	0.02391	0.02360	PASS
Extreme (-10°C)		1.39	2.21	13.17	0.00196	0.00312	0.01855	PASS
Extreme (-20°C)		4.14	11.76	5.65	0.00582	0.01657	0.00796	PASS



Extreme (-30°C)		14.43	8.14	5.20	0.02033	0.01146	0.00733	PASS
25°C	LV	16.04	3.60	4.59	0.02259	0.00508	0.00647	PASS
	HV	8.95	12.53	4.74	0.01261	0.01765	0.00668	PASS

LTE Band 66								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.00	11.29	12.31	0.00459	0.00647	0.00706	PASS
Extreme (50°C)		15.37	16.56	13.29	0.00881	0.00949	0.00761	PASS
Extreme (40°C)		3.57	4.64	15.84	0.00205	0.00266	0.00908	PASS
Extreme (30°C)		17.05	17.34	5.79	0.00977	0.00994	0.00332	PASS
Extreme (20°C)		13.15	4.94	14.24	0.00754	0.00283	0.00816	PASS
Extreme (10°C)		8.68	4.37	10.57	0.00497	0.00250	0.00606	PASS
Extreme (0°C)		15.38	12.68	1.46	0.00881	0.00727	0.00084	PASS
Extreme (-10°C)		9.74	5.79	14.56	0.00558	0.00332	0.00835	PASS
Extreme (-20°C)		3.56	2.10	10.82	0.00204	0.00120	0.00620	PASS
Extreme (-30°C)		2.29	12.23	5.52	0.00131	0.00701	0.00316	PASS
25°C		LV	8.39	6.38	17.13	0.00481	0.00366	0.00981
	HV	6.01	17.30	16.04	0.00344	0.00991	0.00919	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	14.10	4.39	9.32	0.00808	0.00252	0.00534	PASS
Extreme (50°C)		10.32	4.31	15.41	0.00591	0.00247	0.00883	PASS
Extreme (40°C)		4.38	14.23	14.17	0.00251	0.00815	0.00812	PASS
Extreme (30°C)		2.64	5.14	7.28	0.00151	0.00295	0.00417	PASS
Extreme (20°C)		6.73	9.36	10.11	0.00385	0.00537	0.00580	PASS
Extreme (10°C)		16.24	9.00	12.73	0.00931	0.00516	0.00729	PASS
Extreme (0°C)		10.50	13.70	2.72	0.00602	0.00785	0.00156	PASS
Extreme (-10°C)		11.41	14.78	1.20	0.00654	0.00847	0.00069	PASS
Extreme (-20°C)		3.87	5.22	16.86	0.00222	0.00299	0.00966	PASS
Extreme (-30°C)		3.51	8.16	3.65	0.00201	0.00468	0.00209	PASS
25°C		LV	8.93	2.86	14.24	0.00512	0.00164	0.00816
	HV	17.54	8.16	9.21	0.01005	0.00467	0.00528	PASS



Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	15.46	11.81	16.79	0.00886	0.00677	0.00962	PASS
Extreme (50°C)		16.93	9.46	16.66	0.00970	0.00542	0.00955	PASS
Extreme (40°C)		16.15	14.22	6.93	0.00925	0.00815	0.00397	PASS
Extreme (30°C)		13.08	6.15	3.02	0.00750	0.00352	0.00173	PASS
Extreme (20°C)		12.49	16.86	3.67	0.00716	0.00966	0.00210	PASS
Extreme (10°C)		7.10	15.23	6.18	0.00407	0.00873	0.00354	PASS
Extreme (0°C)		11.07	1.42	6.37	0.00634	0.00081	0.00365	PASS
Extreme (-10°C)		9.67	12.89	12.51	0.00554	0.00739	0.00717	PASS
Extreme (-20°C)		8.73	4.81	16.37	0.00501	0.00276	0.00938	PASS
Extreme (-30°C)		6.83	15.87	2.38	0.00392	0.00909	0.00136	PASS
25°C		LV	3.15	10.50	10.27	0.00181	0.00602	0.00589
	HV	4.39	13.37	17.32	0.00252	0.00766	0.00992	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.77	6.63	7.27	0.00273	0.00380	0.00417	PASS
Extreme (50°C)		16.50	12.35	5.71	0.00945	0.00708	0.00327	PASS
Extreme (40°C)		15.15	8.18	12.36	0.00868	0.00469	0.00709	PASS
Extreme (30°C)		3.92	17.15	13.59	0.00225	0.00983	0.00779	PASS
Extreme (20°C)		3.83	13.63	4.29	0.00220	0.00781	0.00246	PASS
Extreme (10°C)		3.53	8.28	9.43	0.00202	0.00474	0.00541	PASS
Extreme (0°C)		5.97	16.73	6.80	0.00342	0.00959	0.00390	PASS
Extreme (-10°C)		12.24	8.33	15.61	0.00701	0.00477	0.00895	PASS
Extreme (-20°C)		5.31	6.24	6.65	0.00305	0.00358	0.00381	PASS
Extreme (-30°C)		13.24	11.36	15.71	0.00759	0.00651	0.00900	PASS
25°C		LV	2.49	7.19	10.26	0.00143	0.00412	0.00588
	HV	6.62	7.20	14.48	0.00379	0.00412	0.00830	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	12.25	5.33	4.78	0.00702	0.00305	0.00274	PASS
Extreme (50°C)		4.87	2.15	3.27	0.00279	0.00123	0.00187	PASS
Extreme (40°C)		13.23	4.40	3.40	0.00758	0.00252	0.00195	PASS
Extreme (30°C)		17.88	2.67	13.52	0.01025	0.00153	0.00775	PASS



Extreme (20°C)		5.99	13.71	8.71	0.00343	0.00786	0.00499	PASS
Extreme (10°C)		8.92	15.13	5.22	0.00511	0.00867	0.00299	PASS
Extreme (0°C)		15.59	4.75	11.04	0.00894	0.00272	0.00632	PASS
Extreme (-10°C)		5.29	7.42	5.66	0.00303	0.00425	0.00324	PASS
Extreme (-20°C)		8.22	10.77	11.89	0.00471	0.00617	0.00681	PASS
Extreme (-30°C)		13.36	1.54	6.32	0.00766	0.00088	0.00362	PASS
25°C	LV	16.28	7.51	16.99	0.00933	0.00430	0.00974	PASS
	HV	3.60	14.43	15.56	0.00206	0.00827	0.00891	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	1.99	8.41	1.06	0.00114	0.00482	0.00060	PASS
Extreme (50°C)		2.64	13.76	6.93	0.00151	0.00789	0.00397	PASS
Extreme (40°C)		15.19	10.60	3.67	0.00870	0.00607	0.00210	PASS
Extreme (30°C)		11.84	6.76	8.59	0.00678	0.00388	0.00492	PASS
Extreme (20°C)		12.38	1.60	14.68	0.00709	0.00092	0.00841	PASS
Extreme (10°C)		3.65	7.60	17.69	0.00209	0.00436	0.01014	PASS
Extreme (0°C)		5.35	6.62	6.03	0.00307	0.00380	0.00346	PASS
Extreme (-10°C)		17.46	17.68	13.25	0.01001	0.01013	0.00760	PASS
Extreme (-20°C)		3.75	4.96	13.66	0.00215	0.00284	0.00783	PASS
Extreme (-30°C)		12.75	14.82	7.34	0.00731	0.00849	0.00421	PASS
25°C	LV	12.29	9.17	13.64	0.00705	0.00525	0.00782	PASS
	HV	15.30	6.95	12.23	0.00877	0.00399	0.00701	PASS

CA_7C_QPSK		20MHz+10MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25°C)	Normal	17.01	0.00905	5.78	0.00307	PASS
Extreme (50°C)		14.89	0.00792	12.34	0.00656	PASS
Extreme (40°C)		13.21	0.00703	16.34	0.00869	PASS
Extreme (30°C)		6.77	0.00360	3.27	0.00174	PASS
Extreme (20°C)		1.30	0.00069	9.11	0.00485	PASS
Extreme (10°C)		8.04	0.00428	14.24	0.00757	PASS
Extreme (0°C)		9.75	0.00519	4.91	0.00261	PASS
Extreme (-10°C)		9.58	0.00510	13.32	0.00708	PASS
Extreme (-20°C)		5.04	0.00268	15.74	0.00837	PASS
Extreme (-30°C)		3.02	0.00161	3.32	0.00177	PASS
25°C	LV	3.89	0.00207	14.66	0.00780	PASS
	HV	15.43	0.00821	3.25	0.00173	PASS



CA_7C_16QAM		15MHz+15MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25°C)	Normal	15.90	0.00846	7.34	0.00390	PASS
Extreme (50°C)		5.22	0.00278	4.30	0.00229	PASS
Extreme (40°C)		6.05	0.00322	5.45	0.00290	PASS
Extreme (30°C)		6.89	0.00366	16.39	0.00872	PASS
Extreme (20°C)		17.98	0.00956	1.80	0.00096	PASS
Extreme (10°C)		12.40	0.00660	14.21	0.00756	PASS
Extreme (0°C)		12.09	0.00643	14.38	0.00765	PASS
Extreme (-10°C)		5.16	0.00275	14.54	0.00773	PASS
Extreme (-20°C)		15.30	0.00814	3.79	0.00201	PASS
Extreme (-30°C)		10.04	0.00534	15.95	0.00848	PASS
25°C	LV	8.49	0.00452	2.18	0.00116	PASS
	HV	11.08	0.00589	6.01	0.00319	PASS
CA_7C_64QAM		15MHz+15MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25°C)	Normal	11.37	0.00605	17.01	0.00905	PASS
Extreme (50°C)		1.19	0.00063	8.14	0.00433	PASS
Extreme (40°C)		12.23	0.00651	1.09	0.00058	PASS
Extreme (30°C)		6.56	0.00349	16.28	0.00866	PASS
Extreme (20°C)		17.16	0.00913	7.49	0.00398	PASS
Extreme (10°C)		9.02	0.00480	16.80	0.00893	PASS
Extreme (0°C)		6.45	0.00343	12.44	0.00662	PASS
Extreme (-10°C)		14.73	0.00783	4.87	0.00259	PASS
Extreme (-20°C)		12.47	0.00663	17.80	0.00947	PASS
Extreme (-30°C)		8.21	0.00437	2.13	0.00113	PASS
25°C	LV	10.08	0.00536	16.62	0.00884	PASS
	HV	4.87	0.00259	3.52	0.00187	PASS



NR n7												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	6.43	10.66	13.69	3.43	7.66	0.00342	0.00567	0.00728	0.00183	0.00407	PASS
Extreme (50°C)		8.22	14.35	16.30	4.22	15.35	0.00437	0.00763	0.00867	0.00224	0.00816	PASS
Extreme (40°C)		12.18	15.31	5.89	6.18	17.31	0.00648	0.00814	0.00313	0.00329	0.00921	PASS
Extreme (30°C)		14.69	17.43	10.93	17.69	4.43	0.00781	0.00927	0.00582	0.00941	0.00236	PASS
Extreme (20°C)		4.77	16.32	14.68	13.77	1.32	0.00254	0.00868	0.00781	0.00733	0.00070	PASS
Extreme (10°C)		3.12	6.73	12.44	6.12	9.73	0.00166	0.00358	0.00661	0.00326	0.00518	PASS
Extreme (0°C)		3.10	7.77	2.26	9.10	15.77	0.00165	0.00413	0.00120	0.00484	0.00839	PASS
Extreme (-10°C)		12.82	10.67	5.59	17.82	10.67	0.00682	0.00568	0.00297	0.00948	0.00568	PASS
Extreme (-20°C)		15.27	9.03	14.79	7.27	5.03	0.00812	0.00480	0.00787	0.00387	0.00267	PASS
Extreme (-30°C)		9.59	2.55	12.27	6.59	6.55	0.00510	0.00135	0.00652	0.00351	0.00348	PASS
25°C		LV	15.29	9.42	3.39	15.29	5.42	0.00813	0.00501	0.00180	0.00813	0.00288
	HV	2.72	14.46	16.12	5.72	15.46	0.00145	0.00769	0.00858	0.00304	0.00822	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	16.35	5.95	8.98	11.35	1.95	0.00869	0.00317	0.00478	0.00603	0.00104	PASS
Extreme (50°C)		8.67	6.02	8.24	7.67	5.02	0.00461	0.00320	0.00438	0.00408	0.00267	PASS
Extreme (40°C)		9.75	4.77	6.50	16.75	5.77	0.00519	0.00254	0.00346	0.00891	0.00307	PASS
Extreme (30°C)		12.07	11.54	13.47	1.07	6.54	0.00642	0.00614	0.00716	0.00057	0.00348	PASS
Extreme (20°C)		10.18	4.23	2.08	4.18	10.23	0.00542	0.00225	0.00110	0.00223	0.00544	PASS
Extreme (10°C)		4.99	4.22	5.72	17.99	8.22	0.00265	0.00225	0.00304	0.00957	0.00437	PASS
Extreme (0°C)		12.31	8.00	10.90	7.31	6.00	0.00655	0.00426	0.00580	0.00389	0.00319	PASS
Extreme (-10°C)		5.48	6.88	13.99	4.48	10.88	0.00292	0.00366	0.00744	0.00238	0.00579	PASS
Extreme (-20°C)		17.23	4.81	2.17	5.23	6.81	0.00916	0.00256	0.00116	0.00278	0.00362	PASS
Extreme (-30°C)		3.08	15.96	17.80	6.08	12.96	0.00164	0.00849	0.00947	0.00323	0.00689	PASS
25°C		LV	16.77	16.53	11.64	4.77	7.53	0.00892	0.00879	0.00619	0.00254	0.00400
	HV	12.86	1.77	4.54	3.86	3.77	0.00684	0.00094	0.00241	0.00205	0.00200	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.69	1.59	5.73	2.69	1.59	0.00249	0.00085	0.00305	0.00143	0.00085	PASS
Extreme (50°C)		5.18	10.55	4.89	1.18	11.55	0.00275	0.00561	0.00260	0.00063	0.00614	PASS
Extreme (40°C)		8.17	6.85	1.11	3.17	8.85	0.00434	0.00364	0.00059	0.00168	0.00471	PASS
Extreme (30°C)		11.25	6.82	4.05	1.25	4.82	0.00599	0.00363	0.00216	0.00067	0.00256	PASS
Extreme (20°C)		8.42	1.18	11.51	8.42	8.18	0.00448	0.00063	0.00612	0.00448	0.00435	PASS
Extreme (10°C)		10.87	10.44	14.99	1.87	3.44	0.00578	0.00555	0.00797	0.00099	0.00183	PASS
Extreme (0°C)		1.22	6.38	5.87	14.22	3.38	0.00065	0.00340	0.00312	0.00756	0.00180	PASS
Extreme (-10°C)		14.31	9.69	5.79	4.31	7.69	0.00761	0.00516	0.00308	0.00229	0.00409	PASS
Extreme (-20°C)		3.53	11.86	9.71	11.53	9.86	0.00188	0.00631	0.00516	0.00613	0.00524	PASS
Extreme (-30°C)		16.40	3.45	9.41	16.40	13.45	0.00872	0.00184	0.00501	0.00872	0.00716	PASS
25°C	LV	3.57	2.99	17.45	4.57	8.99	0.00190	0.00159	0.00928	0.00243	0.00478	PASS
	HV	4.18	1.29	3.24	5.18	6.29	0.00222	0.00069	0.00172	0.00275	0.00335	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	9.29	17.86	5.04	2.29	15.86	0.00494	0.00950	0.00268	0.00122	0.00843	PASS
Extreme (50°C)		6.23	6.42	9.43	16.23	9.42	0.00331	0.00341	0.00502	0.00863	0.00501	PASS
Extreme (40°C)		17.05	6.98	12.28	16.05	2.98	0.00907	0.00371	0.00653	0.00854	0.00158	PASS
Extreme (30°C)		6.32	17.61	15.69	17.32	15.61	0.00336	0.00937	0.00835	0.00921	0.00830	PASS
Extreme (20°C)		15.23	11.04	9.86	4.23	13.04	0.00810	0.00587	0.00525	0.00225	0.00693	PASS
Extreme (10°C)		9.45	14.16	3.05	17.45	6.16	0.00503	0.00753	0.00162	0.00928	0.00328	PASS
Extreme (0°C)		13.85	2.45	13.42	3.85	3.45	0.00737	0.00130	0.00714	0.00205	0.00183	PASS
Extreme (-10°C)		6.35	11.87	17.15	16.35	17.87	0.00338	0.00632	0.00912	0.00870	0.00951	PASS
Extreme (-20°C)		6.55	16.15	14.20	8.55	6.15	0.00348	0.00859	0.00755	0.00455	0.00327	PASS
Extreme (-30°C)		16.79	9.89	11.79	1.79	6.89	0.00893	0.00526	0.00627	0.00095	0.00366	PASS
25°C	LV	17.87	6.32	11.12	16.87	16.32	0.00951	0.00336	0.00591	0.00898	0.00868	PASS
	HV	2.96	8.78	8.21	2.96	11.78	0.00158	0.00467	0.00437	0.00158	0.00626	PASS



NR n41												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	14.73	14.31	7.69	8.73	9.31	0.00784	0.00761	0.00409	0.00465	0.00495	PASS
Extreme (50°C)		9.08	13.43	17.85	17.08	13.43	0.00483	0.00714	0.00949	0.00908	0.00714	PASS
Extreme (40°C)		4.17	11.31	3.63	15.17	6.31	0.00222	0.00601	0.00193	0.00807	0.00335	PASS
Extreme (30°C)		17.02	5.33	7.34	7.02	14.33	0.00905	0.00284	0.00390	0.00373	0.00762	PASS
Extreme (20°C)		5.26	3.73	17.78	15.26	3.73	0.00280	0.00198	0.00946	0.00812	0.00198	PASS
Extreme (10°C)		1.08	7.29	1.31	5.08	10.29	0.00058	0.00388	0.00070	0.00270	0.00547	PASS
Extreme (0°C)		5.19	12.37	12.56	14.19	13.37	0.00276	0.00658	0.00668	0.00755	0.00711	PASS
Extreme (-10°C)		14.51	9.56	6.54	13.51	8.56	0.00772	0.00509	0.00348	0.00719	0.00455	PASS
Extreme (-20°C)		11.96	1.63	8.82	5.96	17.63	0.00636	0.00086	0.00469	0.00317	0.00938	PASS
Extreme (-30°C)		12.94	2.81	8.11	3.94	1.81	0.00688	0.00149	0.00432	0.00210	0.00096	PASS
25°C		LV	5.19	5.13	9.96	13.19	9.13	0.00276	0.00273	0.00530	0.00702	0.00486
	HV	13.75	7.39	14.51	8.75	8.39	0.00731	0.00393	0.00772	0.00465	0.00446	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.52	16.32	11.98	5.52	13.32	0.00240	0.00868	0.00637	0.00293	0.00708	PASS
Extreme (50°C)		4.28	16.19	14.10	13.28	13.19	0.00228	0.00861	0.00750	0.00707	0.00701	PASS
Extreme (40°C)		14.92	10.03	14.67	11.92	8.03	0.00794	0.00533	0.00780	0.00634	0.00427	PASS
Extreme (30°C)		12.51	5.82	14.30	3.51	16.82	0.00665	0.00310	0.00761	0.00187	0.00895	PASS
Extreme (20°C)		3.16	3.16	9.96	2.16	16.16	0.00168	0.00168	0.00530	0.00115	0.00859	PASS
Extreme (10°C)		4.38	15.92	16.46	17.38	15.92	0.00233	0.00847	0.00875	0.00925	0.00847	PASS
Extreme (0°C)		17.96	9.87	15.79	2.96	2.87	0.00955	0.00525	0.00840	0.00158	0.00153	PASS
Extreme (-10°C)		4.24	9.69	4.49	2.24	15.69	0.00225	0.00515	0.00239	0.00119	0.00834	PASS
Extreme (-20°C)		3.18	10.94	14.45	12.18	9.94	0.00169	0.00582	0.00768	0.00648	0.00529	PASS
Extreme (-30°C)		14.25	3.06	5.41	11.25	5.06	0.00758	0.00163	0.00288	0.00599	0.00269	PASS
25°C		LV	13.13	16.06	2.33	13.13	5.06	0.00698	0.00854	0.00124	0.00698	0.00269
	HV	10.43	14.51	12.39	5.43	3.51	0.00555	0.00772	0.00659	0.00289	0.00187	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	



Normal (25°C)	Normal	8.79	17.66	16.92	14.79	14.66	0.00467	0.00939	0.00900	0.00786	0.00780	PASS
Extreme (50°C)		17.44	16.69	11.54	11.44	17.69	0.00928	0.00888	0.00614	0.00609	0.00941	PASS
Extreme (40°C)		16.49	15.46	4.90	9.49	11.46	0.00877	0.00822	0.00261	0.00505	0.00610	PASS
Extreme (30°C)		14.43	17.09	14.63	12.43	15.09	0.00768	0.00909	0.00778	0.00661	0.00803	PASS
Extreme (20°C)		3.77	10.25	17.37	7.77	17.25	0.00201	0.00545	0.00924	0.00413	0.00917	PASS
Extreme (10°C)		10.14	14.54	11.80	16.14	11.54	0.00539	0.00773	0.00628	0.00858	0.00614	PASS
Extreme (0°C)		1.90	4.83	8.46	2.90	2.83	0.00101	0.00257	0.00450	0.00154	0.00151	PASS
Extreme (-10°C)		13.53	17.19	11.88	13.53	8.19	0.00720	0.00915	0.00632	0.00720	0.00436	PASS
Extreme (-20°C)		1.38	9.44	14.02	10.38	12.44	0.00073	0.00502	0.00746	0.00552	0.00661	PASS
Extreme (-30°C)		11.06	5.82	12.27	1.06	12.82	0.00588	0.00310	0.00653	0.00056	0.00682	PASS
25°C	LV	10.54	3.29	2.28	6.54	2.29	0.00561	0.00175	0.00121	0.00348	0.00122	PASS
	HV	3.78	5.59	5.12	17.78	5.59	0.00201	0.00297	0.00272	0.00946	0.00297	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	11.55	17.66	3.32	12.55	16.66	0.00615	0.00939	0.00176	0.00668	0.00886	PASS
Extreme (50°C)		1.31	12.89	14.79	15.31	12.89	0.00069	0.00685	0.00786	0.00814	0.00685	PASS
Extreme (40°C)		9.48	13.61	1.24	17.48	16.61	0.00504	0.00724	0.00066	0.00930	0.00883	PASS
Extreme (30°C)		10.93	13.67	7.16	16.93	15.67	0.00581	0.00727	0.00381	0.00900	0.00834	PASS
Extreme (20°C)		1.06	4.80	8.95	9.06	10.80	0.00056	0.00255	0.00476	0.00482	0.00574	PASS
Extreme (10°C)		7.65	13.51	11.52	4.65	2.51	0.00407	0.00719	0.00613	0.00247	0.00134	PASS
Extreme (0°C)		11.26	6.63	17.67	8.26	4.63	0.00599	0.00353	0.00940	0.00439	0.00246	PASS
Extreme (-10°C)		10.34	1.17	1.95	13.34	7.17	0.00550	0.00062	0.00104	0.00710	0.00381	PASS
Extreme (-20°C)		2.30	6.55	6.24	12.30	5.55	0.00123	0.00348	0.00332	0.00655	0.00295	PASS
Extreme (-30°C)		3.38	11.40	5.20	11.38	9.40	0.00180	0.00606	0.00277	0.00605	0.00500	PASS
25°C	LV	1.78	10.19	10.99	1.78	16.19	0.00095	0.00542	0.00585	0.00095	0.00861	PASS
	HV	12.89	7.65	6.64	4.89	1.65	0.00686	0.00407	0.00353	0.00260	0.00088	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	16.05	3.27	2.65	16.05	10.27	0.00854	0.00174	0.00141	0.00854	0.00546	PASS
Extreme (50°C)		1.51	14.48	15.60	3.51	8.48	0.00080	0.00770	0.00830	0.00187	0.00451	PASS
Extreme (40°C)		3.89	13.50	12.04	3.89	6.50	0.00207	0.00718	0.00640	0.00207	0.00346	PASS
Extreme (30°C)		15.49	12.55	1.89	4.49	8.55	0.00824	0.00667	0.00101	0.00239	0.00455	PASS
Extreme (20°C)		3.71	11.46	5.35	2.71	3.46	0.00197	0.00610	0.00284	0.00144	0.00184	PASS
Extreme (10°C)		12.37	11.16	8.94	14.37	12.16	0.00658	0.00594	0.00476	0.00764	0.00647	PASS
Extreme (0°C)		2.36	8.61	16.13	7.36	17.61	0.00125	0.00458	0.00858	0.00391	0.00936	PASS



Extreme (-10°C)		6.07	7.27	8.09	10.07	7.27	0.00323	0.00387	0.00430	0.00536	0.00387	PASS
Extreme (-20°C)		16.89	4.73	3.29	3.89	4.73	0.00898	0.00251	0.00175	0.00207	0.00251	PASS
Extreme (-30°C)		3.22	10.83	14.71	1.22	5.83	0.00171	0.00576	0.00783	0.00065	0.00310	PASS
25°C	LV	8.82	5.52	7.92	3.82	3.52	0.00469	0.00294	0.00421	0.00203	0.00187	PASS
	HV	9.90	17.86	5.49	11.90	16.86	0.00526	0.00950	0.00292	0.00633	0.00897	PASS

DC_28 A (subset 2)-n41A												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	15.53	13.10	5.22	11.53	13.10	0.00826	0.00697	0.00278	0.00614	0.00697	PASS
Extreme (50°C)		5.70	6.49	5.31	8.70	13.49	0.00303	0.00345	0.00283	0.00463	0.00717	PASS
Extreme (40°C)		17.24	1.94	14.86	11.24	8.94	0.00917	0.00103	0.00790	0.00598	0.00476	PASS
Extreme (30°C)		7.81	3.63	5.82	11.81	12.63	0.00415	0.00193	0.00310	0.00628	0.00672	PASS
Extreme (20°C)		1.72	6.32	5.02	16.72	2.32	0.00091	0.00336	0.00267	0.00889	0.00123	PASS
Extreme (10°C)		11.00	11.86	7.76	16.00	16.86	0.00585	0.00631	0.00413	0.00851	0.00897	PASS
Extreme (0°C)		3.03	14.20	15.73	1.03	3.20	0.00161	0.00755	0.00837	0.00055	0.00170	PASS
Extreme (-10°C)		5.90	1.84	16.22	14.90	15.84	0.00314	0.00098	0.00863	0.00793	0.00842	PASS
Extreme (-20°C)		5.51	1.39	11.07	14.51	4.39	0.00293	0.00074	0.00589	0.00772	0.00233	PASS
Extreme (-30°C)		8.88	10.30	6.61	5.88	15.30	0.00472	0.00548	0.00352	0.00313	0.00814	PASS
25°C	LV	15.43	8.59	9.52	6.43	13.59	0.00821	0.00457	0.00507	0.00342	0.00723	PASS
	HV	2.47	16.40	4.40	6.47	15.40	0.00132	0.00872	0.00234	0.00344	0.00819	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	10.61	9.28	14.10	8.61	7.28	0.00564	0.00493	0.00750	0.00458	0.00387	PASS
Extreme (50°C)		5.41	16.93	7.30	14.41	17.93	0.00288	0.00901	0.00388	0.00766	0.00954	PASS
Extreme (40°C)		5.97	3.91	8.21	15.97	10.91	0.00317	0.00208	0.00436	0.00849	0.00580	PASS
Extreme (30°C)		8.85	8.56	12.54	3.85	4.56	0.00471	0.00455	0.00667	0.00205	0.00243	PASS
Extreme (20°C)		14.28	4.59	14.16	13.28	11.59	0.00760	0.00244	0.00753	0.00706	0.00616	PASS
Extreme (10°C)		10.11	3.33	9.29	3.11	14.33	0.00538	0.00177	0.00494	0.00165	0.00762	PASS
Extreme (0°C)		14.57	9.76	11.77	14.57	13.76	0.00775	0.00519	0.00626	0.00775	0.00732	PASS
Extreme (-10°C)		10.35	8.55	3.52	15.35	1.55	0.00551	0.00455	0.00187	0.00816	0.00082	PASS
Extreme (-20°C)		7.08	5.66	12.65	6.08	13.66	0.00377	0.00301	0.00673	0.00324	0.00727	PASS
Extreme (-30°C)		7.61	6.95	9.09	12.61	2.95	0.00405	0.00370	0.00484	0.00671	0.00157	PASS
25°C	LV	1.23	9.76	13.64	16.23	14.76	0.00066	0.00519	0.00725	0.00863	0.00785	PASS



	HV	7.12	11.72	9.87	7.12	9.72	0.00379	0.00623	0.00525	0.00379	0.00517	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	6.06	13.45	6.13	15.06	3.45	0.00322	0.00715	0.00326	0.00801	0.00183	PASS
Extreme (50°C)		8.90	2.52	12.74	2.90	4.52	0.00474	0.00134	0.00678	0.00155	0.00240	PASS
Extreme (40°C)		10.06	6.97	13.80	7.06	8.97	0.00535	0.00371	0.00734	0.00376	0.00477	PASS
Extreme (30°C)		8.55	4.27	10.96	6.55	2.27	0.00455	0.00227	0.00583	0.00348	0.00120	PASS
Extreme (20°C)		6.25	7.36	5.38	16.25	14.36	0.00332	0.00392	0.00286	0.00864	0.00764	PASS
Extreme (10°C)		9.99	15.89	4.30	12.99	8.89	0.00531	0.00845	0.00229	0.00691	0.00473	PASS
Extreme (0°C)		14.15	12.14	3.83	16.15	2.14	0.00753	0.00646	0.00204	0.00859	0.00114	PASS
Extreme (-10°C)		8.09	1.03	10.37	2.09	1.03	0.00430	0.00055	0.00551	0.00111	0.00055	PASS
Extreme (-20°C)		4.07	16.36	9.15	10.07	12.36	0.00216	0.00870	0.00487	0.00536	0.00657	PASS
Extreme (-30°C)		16.59	3.86	12.83	15.59	2.86	0.00882	0.00205	0.00683	0.00829	0.00152	PASS
25°C		LV	12.82	8.02	11.92	5.82	10.02	0.00682	0.00427	0.00634	0.00309	0.00533
	HV	3.90	6.73	3.84	12.90	4.73	0.00208	0.00358	0.00204	0.00686	0.00252	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	1.91	2.23	12.81	15.91	7.23	0.00102	0.00119	0.00681	0.00846	0.00385	PASS
Extreme (50°C)		15.28	1.69	7.79	7.28	17.69	0.00813	0.00090	0.00414	0.00387	0.00941	PASS
Extreme (40°C)		4.52	6.66	7.44	15.52	2.66	0.00241	0.00354	0.00396	0.00826	0.00142	PASS
Extreme (30°C)		5.29	3.70	12.99	7.29	15.70	0.00281	0.00197	0.00691	0.00388	0.00835	PASS
Extreme (20°C)		14.10	9.00	1.43	7.10	17.00	0.00750	0.00479	0.00076	0.00378	0.00904	PASS
Extreme (10°C)		16.65	15.25	14.71	1.65	17.25	0.00886	0.00811	0.00782	0.00088	0.00918	PASS
Extreme (0°C)		16.23	12.48	10.60	2.23	15.48	0.00863	0.00664	0.00564	0.00119	0.00824	PASS
Extreme (-10°C)		8.17	6.04	9.40	16.17	1.04	0.00435	0.00321	0.00500	0.00860	0.00055	PASS
Extreme (-20°C)		13.45	9.11	7.22	3.45	16.11	0.00716	0.00485	0.00384	0.00184	0.00857	PASS
Extreme (-30°C)		10.81	9.59	16.22	14.81	5.59	0.00575	0.00510	0.00863	0.00788	0.00297	PASS
25°C		LV	17.44	1.17	12.78	13.44	16.17	0.00928	0.00062	0.00680	0.00715	0.00860
	HV	2.42	17.72	1.02	1.42	5.72	0.00129	0.00942	0.00054	0.00075	0.00304	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	16.21	15.63	3.65	6.21	1.63	0.00862	0.00831	0.00194	0.00330	0.00087	PASS
Extreme (50°C)		12.78	10.67	7.83	9.78	7.67	0.00680	0.00568	0.00416	0.00520	0.00408	PASS
Extreme (40°C)		5.27	17.91	6.88	17.27	16.91	0.00280	0.00953	0.00366	0.00918	0.00899	PASS
Extreme (30°C)		14.07	14.35	1.40	10.07	11.35	0.00748	0.00763	0.00074	0.00536	0.00604	PASS
Extreme (20°C)		4.16	2.00	14.34	1.16	2.00	0.00221	0.00106	0.00763	0.00062	0.00106	PASS
Extreme (10°C)		6.65	13.39	12.36	2.65	17.39	0.00354	0.00712	0.00658	0.00141	0.00925	PASS
Extreme (0°C)		7.06	16.93	10.91	1.06	10.93	0.00376	0.00900	0.00580	0.00056	0.00581	PASS
Extreme (-10°C)		11.88	11.96	6.07	13.88	7.96	0.00632	0.00636	0.00323	0.00738	0.00423	PASS
Extreme (-20°C)		4.62	12.55	15.71	16.62	16.55	0.00246	0.00667	0.00836	0.00884	0.00880	PASS
Extreme (-30°C)		17.96	2.96	11.12	17.96	10.96	0.00955	0.00157	0.00591	0.00955	0.00583	PASS
25°C	LV	4.01	16.83	7.84	8.01	4.83	0.00213	0.00895	0.00417	0.00426	0.00257	PASS
	HV	4.67	2.49	13.46	16.67	13.49	0.00248	0.00132	0.00716	0.00887	0.00718	PASS

NR n66												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	7.63	14.21	16.63	13.63	11.21	0.00406	0.00756	0.00885	0.00725	0.00596	PASS
Extreme (50°C)		4.11	5.83	10.53	13.11	16.83	0.00218	0.00310	0.00560	0.00697	0.00895	PASS
Extreme (40°C)		1.03	17.58	6.35	8.03	2.58	0.00055	0.00935	0.00338	0.00427	0.00137	PASS
Extreme (30°C)		3.11	8.27	14.29	14.11	8.27	0.00165	0.00440	0.00760	0.00750	0.00440	PASS
Extreme (20°C)		6.28	15.64	5.81	14.28	14.64	0.00334	0.00832	0.00309	0.00760	0.00779	PASS
Extreme (10°C)		8.32	8.89	7.03	16.32	9.89	0.00442	0.00473	0.00374	0.00868	0.00526	PASS
Extreme (0°C)		15.40	3.14	12.50	6.40	11.14	0.00819	0.00167	0.00665	0.00340	0.00592	PASS
Extreme (-10°C)		16.96	11.74	5.27	15.96	11.74	0.00902	0.00624	0.00280	0.00849	0.00624	PASS
Extreme (-20°C)		11.85	17.29	11.99	17.85	1.29	0.00631	0.00920	0.00638	0.00950	0.00069	PASS
Extreme (-30°C)		17.40	11.60	11.54	5.40	17.60	0.00925	0.00617	0.00614	0.00287	0.00936	PASS
25°C	LV	9.49	10.38	4.37	9.49	16.38	0.00505	0.00552	0.00233	0.00505	0.00871	PASS
	HV	1.78	6.39	12.02	14.78	2.39	0.00095	0.00340	0.00640	0.00786	0.00127	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.74	11.26	8.80	11.74	7.26	0.00465	0.00599	0.00468	0.00625	0.00386	PASS
Extreme (50°C)		15.83	16.81	10.21	10.83	3.81	0.00842	0.00894	0.00543	0.00576	0.00202	PASS
Extreme (40°C)		12.15	5.27	1.42	13.15	4.27	0.00646	0.00280	0.00075	0.00700	0.00227	PASS
Extreme (30°C)		17.67	8.97	6.42	14.67	13.97	0.00940	0.00477	0.00342	0.00780	0.00743	PASS
Extreme (20°C)		8.55	14.33	1.73	4.55	12.33	0.00455	0.00762	0.00092	0.00242	0.00656	PASS
Extreme (10°C)		10.10	4.21	9.72	17.10	15.21	0.00537	0.00224	0.00517	0.00910	0.00809	PASS
Extreme (0°C)		17.07	13.52	4.23	9.07	13.52	0.00908	0.00719	0.00225	0.00482	0.00719	PASS
Extreme (-10°C)		7.81	17.06	9.45	1.81	10.06	0.00415	0.00907	0.00502	0.00096	0.00535	PASS
Extreme (-20°C)		15.71	13.30	12.68	14.71	7.30	0.00835	0.00708	0.00674	0.00782	0.00389	PASS
Extreme (-30°C)		10.17	17.25	15.67	17.17	8.25	0.00541	0.00917	0.00834	0.00913	0.00439	PASS
25°C	LV	15.84	10.86	11.36	9.84	17.86	0.00843	0.00578	0.00604	0.00523	0.00950	PASS
	HV	4.03	7.18	14.38	4.03	17.18	0.00214	0.00382	0.00765	0.00214	0.00914	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	13.59	3.99	2.89	2.59	5.99	0.00723	0.00212	0.00154	0.00138	0.00319	PASS
Extreme (50°C)		12.14	10.29	9.45	15.14	7.29	0.00646	0.00547	0.00503	0.00805	0.00388	PASS
Extreme (40°C)		17.04	13.04	3.62	11.04	7.04	0.00907	0.00693	0.00193	0.00587	0.00374	PASS
Extreme (30°C)		7.75	16.33	11.50	16.75	5.33	0.00412	0.00869	0.00612	0.00891	0.00283	PASS
Extreme (20°C)		7.48	3.53	1.00	7.48	11.53	0.00398	0.00188	0.00053	0.00398	0.00613	PASS
Extreme (10°C)		13.14	15.00	15.84	1.14	9.00	0.00699	0.00798	0.00843	0.00061	0.00479	PASS
Extreme (0°C)		17.58	5.34	6.35	5.58	8.34	0.00935	0.00284	0.00338	0.00297	0.00444	PASS
Extreme (-10°C)		12.28	3.81	9.33	8.28	3.81	0.00653	0.00203	0.00496	0.00440	0.00203	PASS
Extreme (-20°C)		14.41	16.44	17.38	14.41	6.44	0.00766	0.00875	0.00925	0.00766	0.00343	PASS
Extreme (-30°C)		4.44	3.95	9.04	2.44	16.95	0.00236	0.00210	0.00481	0.00130	0.00902	PASS
25°C	LV	13.18	17.64	17.75	10.18	2.64	0.00701	0.00938	0.00944	0.00541	0.00141	PASS
	HV	5.80	1.04	6.49	2.80	16.04	0.00308	0.00055	0.00345	0.00149	0.00853	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	6.93	2.76	4.16	17.93	7.76	0.00369	0.00147	0.00221	0.00954	0.00413	PASS



Extreme (50°C)		16.73	7.18	14.34	17.73	7.18	0.00890	0.00382	0.00763	0.00943	0.00382	PASS
Extreme (40°C)		17.41	3.55	5.33	3.41	17.55	0.00926	0.00189	0.00284	0.00182	0.00934	PASS
Extreme (30°C)		16.99	15.64	17.01	2.99	17.64	0.00904	0.00832	0.00905	0.00159	0.00938	PASS
Extreme (20°C)		9.58	6.35	8.62	3.58	9.35	0.00509	0.00338	0.00458	0.00190	0.00497	PASS
Extreme (10°C)		3.11	14.89	10.93	8.11	6.89	0.00165	0.00792	0.00581	0.00431	0.00366	PASS
Extreme (0°C)		17.86	6.84	1.26	3.86	11.84	0.00950	0.00364	0.00067	0.00205	0.00630	PASS
Extreme (-10°C)		3.92	2.23	10.48	6.92	9.23	0.00209	0.00119	0.00558	0.00368	0.00491	PASS
Extreme (-20°C)		11.15	12.00	1.10	11.15	17.00	0.00593	0.00638	0.00058	0.00593	0.00904	PASS
Extreme (-30°C)		10.90	10.64	8.22	15.90	15.64	0.00580	0.00566	0.00437	0.00846	0.00832	PASS
25°C	LV	7.58	3.29	11.05	14.58	7.29	0.00403	0.00175	0.00588	0.00776	0.00388	PASS
	HV	7.34	5.66	17.39	15.34	5.66	0.00390	0.00301	0.00925	0.00816	0.00301	PASS

DC_5A-n66A												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.51	8.61	6.42	11.51	3.61	0.00932	0.00458	0.00341	0.00612	0.00192	PASS
Extreme (50°C)		15.10	10.20	15.85	13.10	12.20	0.00803	0.00542	0.00843	0.00697	0.00649	PASS
Extreme (40°C)		10.80	9.22	11.23	6.80	12.22	0.00574	0.00490	0.00597	0.00362	0.00650	PASS
Extreme (30°C)		8.71	10.47	8.22	8.71	13.47	0.00463	0.00557	0.00437	0.00463	0.00716	PASS
Extreme (20°C)		5.30	12.03	5.05	17.30	4.03	0.00282	0.00640	0.00269	0.00920	0.00214	PASS
Extreme (10°C)		8.95	11.66	1.94	5.95	4.66	0.00476	0.00620	0.00103	0.00317	0.00248	PASS
Extreme (0°C)		1.49	9.41	7.24	3.49	15.41	0.00079	0.00500	0.00385	0.00186	0.00820	PASS
Extreme (-10°C)		14.91	17.71	7.94	15.91	8.71	0.00793	0.00942	0.00423	0.00846	0.00463	PASS
Extreme (-20°C)		16.62	4.64	1.11	1.62	17.64	0.00884	0.00247	0.00059	0.00086	0.00938	PASS
Extreme (-30°C)		4.50	12.07	8.94	16.50	8.07	0.00239	0.00642	0.00476	0.00878	0.00429	PASS
25°C	LV	11.02	10.77	9.17	5.02	15.77	0.00586	0.00573	0.00488	0.00267	0.00839	PASS
	HV	10.84	7.44	11.77	9.84	6.44	0.00577	0.00396	0.00626	0.00523	0.00343	PASS

Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.30	4.28	8.93	3.30	11.28	0.00442	0.00228	0.00475	0.00176	0.00600	PASS
Extreme (50°C)		10.94	3.27	1.46	12.94	4.27	0.00582	0.00174	0.00078	0.00688	0.00227	PASS
Extreme (40°C)		11.81	15.28	6.25	11.81	16.28	0.00628	0.00813	0.00333	0.00628	0.00866	PASS
Extreme (30°C)		6.18	7.56	9.46	2.18	2.56	0.00329	0.00402	0.00503	0.00116	0.00136	PASS
Extreme (20°C)		8.92	10.64	17.91	4.92	8.64	0.00474	0.00566	0.00953	0.00262	0.00460	PASS
Extreme (10°C)		12.81	7.96	5.97	9.81	14.96	0.00681	0.00423	0.00318	0.00522	0.00796	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Extreme (0°C)		15.02	1.25	10.03	6.02	3.25	0.00799	0.00066	0.00534	0.00320	0.00173	PASS
Extreme (-10°C)		12.36	1.94	7.63	9.36	3.94	0.00657	0.00103	0.00406	0.00498	0.00210	PASS
Extreme (-20°C)		11.41	2.70	2.28	11.41	13.70	0.00607	0.00143	0.00121	0.00607	0.00729	PASS
Extreme (-30°C)		13.78	13.49	2.28	13.78	13.49	0.00733	0.00718	0.00121	0.00733	0.00718	PASS
25°C	LV	14.50	9.56	9.67	2.50	10.56	0.00771	0.00508	0.00514	0.00133	0.00561	PASS
	HV	2.88	1.63	6.68	16.88	3.63	0.00153	0.00086	0.00355	0.00898	0.00193	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	11.50	16.10	10.24	9.50	16.10	0.00611	0.00857	0.00545	0.00505	0.00857	PASS
Extreme (50°C)		2.99	2.12	4.87	4.99	2.12	0.00159	0.00113	0.00259	0.00265	0.00113	PASS
Extreme (40°C)		6.28	11.89	3.48	16.28	14.89	0.00334	0.00632	0.00185	0.00866	0.00792	PASS
Extreme (30°C)		12.67	6.08	12.92	12.67	15.08	0.00674	0.00323	0.00687	0.00674	0.00802	PASS
Extreme (20°C)		2.57	6.45	5.75	11.57	4.45	0.00137	0.00343	0.00306	0.00615	0.00237	PASS
Extreme (10°C)		2.79	5.78	12.49	9.79	7.78	0.00148	0.00307	0.00665	0.00520	0.00414	PASS
Extreme (0°C)		16.15	12.86	15.48	11.15	12.86	0.00859	0.00684	0.00823	0.00593	0.00684	PASS
Extreme (-10°C)		7.64	5.79	16.28	13.64	16.79	0.00406	0.00308	0.00866	0.00725	0.00893	PASS
Extreme (-20°C)		6.00	11.58	1.12	14.00	13.58	0.00319	0.00616	0.00060	0.00745	0.00722	PASS
Extreme (-30°C)		15.45	17.41	4.97	4.45	9.41	0.00822	0.00926	0.00265	0.00237	0.00501	PASS
25°C	LV	17.03	3.26	3.16	10.03	14.26	0.00906	0.00173	0.00168	0.00534	0.00758	PASS
	HV	3.89	7.03	14.72	13.89	8.03	0.00207	0.00374	0.00783	0.00739	0.00427	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.17	15.95	13.91	7.17	10.95	0.00275	0.00849	0.00740	0.00381	0.00583	PASS
Extreme (50°C)		2.65	16.59	4.86	14.65	5.59	0.00141	0.00883	0.00259	0.00779	0.00298	PASS
Extreme (40°C)		1.66	4.71	11.05	10.66	16.71	0.00088	0.00251	0.00588	0.00567	0.00889	PASS
Extreme (30°C)		11.12	6.69	10.87	10.12	6.69	0.00592	0.00356	0.00578	0.00538	0.00356	PASS
Extreme (20°C)		9.89	13.89	7.53	13.89	10.89	0.00526	0.00739	0.00401	0.00739	0.00579	PASS
Extreme (10°C)		11.42	17.28	10.50	11.42	3.28	0.00607	0.00919	0.00559	0.00607	0.00174	PASS
Extreme (0°C)		12.10	10.91	3.94	14.10	1.91	0.00644	0.00580	0.00210	0.00750	0.00101	PASS
Extreme (-10°C)		1.45	13.39	12.52	12.45	12.39	0.00077	0.00712	0.00666	0.00662	0.00659	PASS
Extreme (-20°C)		7.62	3.81	7.97	17.62	12.81	0.00405	0.00203	0.00424	0.00937	0.00681	PASS
Extreme (-30°C)		2.14	10.15	2.70	7.14	13.15	0.00114	0.00540	0.00143	0.00380	0.00700	PASS
25°C	LV	8.74	4.04	16.71	1.74	9.04	0.00465	0.00215	0.00889	0.00093	0.00481	PASS
	HV	6.14	2.26	4.18	3.14	14.26	0.00326	0.00120	0.00223	0.00167	0.00758	PASS



NR N77 subset 1												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	14.93	2.63	3.65	8.93	2.63	0.00794	0.00140	0.00194	0.00475	0.00140	PASS
Extreme (50°C)		15.31	2.52	16.04	3.31	13.52	0.00814	0.00134	0.00853	0.00176	0.00719	PASS
Extreme (40°C)		14.73	14.50	15.60	8.73	5.50	0.00783	0.00771	0.00830	0.00464	0.00292	PASS
Extreme (30°C)		1.17	10.17	4.14	10.17	15.17	0.00062	0.00541	0.00220	0.00541	0.00807	PASS
Extreme (20°C)		7.44	11.05	11.52	14.44	11.05	0.00396	0.00588	0.00613	0.00768	0.00588	PASS
Extreme (10°C)		12.03	1.47	16.45	10.03	13.47	0.00640	0.00078	0.00875	0.00533	0.00717	PASS
Extreme (0°C)		10.75	13.59	11.88	10.75	12.59	0.00572	0.00723	0.00632	0.00572	0.00670	PASS
Extreme (-10°C)		15.60	8.03	6.04	13.60	3.03	0.00830	0.00427	0.00321	0.00723	0.00161	PASS
Extreme (-20°C)		17.94	5.03	12.55	15.94	12.03	0.00954	0.00267	0.00668	0.00848	0.00640	PASS
Extreme (-30°C)		12.97	14.94	8.39	8.97	7.94	0.00690	0.00794	0.00446	0.00477	0.00422	PASS
25°C		LV	1.06	12.16	12.49	3.06	17.16	0.00057	0.00647	0.00664	0.00163	0.00913
	HV	9.13	14.44	12.05	13.13	7.44	0.00485	0.00768	0.00641	0.00698	0.00396	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.66	1.17	15.73	3.66	10.17	0.00301	0.00062	0.00837	0.00195	0.00541	PASS
Extreme (50°C)		5.38	8.23	16.06	2.38	9.23	0.00286	0.00438	0.00854	0.00126	0.00491	PASS
Extreme (40°C)		11.01	8.77	8.85	17.01	3.77	0.00586	0.00466	0.00471	0.00905	0.00200	PASS
Extreme (30°C)		7.96	9.71	8.31	16.96	5.71	0.00423	0.00516	0.00442	0.00902	0.00304	PASS
Extreme (20°C)		9.29	8.32	13.38	14.29	3.32	0.00494	0.00442	0.00712	0.00760	0.00177	PASS
Extreme (10°C)		8.12	12.57	4.66	4.12	9.57	0.00432	0.00669	0.00248	0.00219	0.00509	PASS
Extreme (0°C)		11.33	11.10	12.05	3.33	16.10	0.00602	0.00590	0.00641	0.00177	0.00856	PASS
Extreme (-10°C)		16.95	17.39	14.84	10.95	9.39	0.00901	0.00925	0.00789	0.00582	0.00500	PASS
Extreme (-20°C)		15.49	8.06	16.16	11.49	12.06	0.00824	0.00429	0.00860	0.00611	0.00642	PASS
Extreme (-30°C)		15.77	3.08	15.45	8.77	13.08	0.00839	0.00164	0.00822	0.00467	0.00696	PASS
25°C		LV	1.66	15.91	14.20	14.66	5.91	0.00088	0.00846	0.00755	0.00780	0.00314
	HV	7.70	3.24	13.73	2.70	15.24	0.00410	0.00172	0.00730	0.00144	0.00811	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.17	10.87	15.58	1.17	12.87	0.00382	0.00578	0.00829	0.00062	0.00685	PASS
Extreme (50°C)		6.75	8.05	5.09	11.75	11.05	0.00359	0.00428	0.00271	0.00625	0.00588	PASS
Extreme (40°C)		4.40	4.13	3.31	14.40	1.13	0.00234	0.00220	0.00176	0.00766	0.00060	PASS
Extreme (30°C)		2.47	11.06	4.36	5.47	9.06	0.00131	0.00588	0.00232	0.00291	0.00482	PASS
Extreme (20°C)		9.06	1.36	7.77	13.06	14.36	0.00482	0.00072	0.00413	0.00695	0.00764	PASS
Extreme (10°C)		14.15	2.83	17.30	7.15	2.83	0.00753	0.00150	0.00920	0.00380	0.00150	PASS
Extreme (0°C)		4.74	1.60	17.18	8.74	8.60	0.00252	0.00085	0.00914	0.00465	0.00457	PASS
Extreme (-10°C)		9.82	15.01	10.74	4.82	8.01	0.00523	0.00798	0.00571	0.00257	0.00426	PASS
Extreme (-20°C)		3.47	16.08	2.79	5.47	9.08	0.00185	0.00855	0.00148	0.00291	0.00483	PASS
Extreme (-30°C)		17.78	4.51	17.13	16.78	6.51	0.00946	0.00240	0.00911	0.00893	0.00346	PASS
25°C		LV	15.48	12.34	11.36	3.48	14.34	0.00823	0.00656	0.00604	0.00185	0.00763
	HV	12.49	17.93	14.99	17.49	2.93	0.00664	0.00954	0.00797	0.00930	0.00156	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	3.30	7.48	12.05	12.30	2.48	0.00176	0.00398	0.00641	0.00654	0.00132	PASS
Extreme (50°C)		6.11	6.45	9.16	8.11	8.45	0.00325	0.00343	0.00487	0.00431	0.00450	PASS
Extreme (40°C)		6.72	11.47	4.92	5.72	13.47	0.00358	0.00610	0.00262	0.00304	0.00716	PASS
Extreme (30°C)		6.69	9.85	6.81	10.69	12.85	0.00356	0.00524	0.00362	0.00568	0.00684	PASS
Extreme (20°C)		2.51	7.85	9.09	12.51	13.85	0.00134	0.00418	0.00484	0.00666	0.00737	PASS
Extreme (10°C)		8.41	13.26	2.91	8.41	17.26	0.00448	0.00705	0.00155	0.00448	0.00918	PASS
Extreme (0°C)		15.52	6.31	7.13	11.52	11.31	0.00825	0.00335	0.00379	0.00613	0.00601	PASS
Extreme (-10°C)		3.72	12.32	3.74	7.72	17.32	0.00198	0.00655	0.00199	0.00410	0.00921	PASS
Extreme (-20°C)		2.67	12.86	3.88	16.67	11.86	0.00142	0.00684	0.00206	0.00887	0.00631	PASS
Extreme (-30°C)		6.63	2.10	14.16	11.63	11.10	0.00352	0.00112	0.00753	0.00618	0.00591	PASS
25°C		LV	15.58	15.27	10.58	9.58	7.27	0.00829	0.00812	0.00563	0.00510	0.00387
	HV	1.10	10.33	13.37	15.10	1.33	0.00059	0.00550	0.00711	0.00803	0.00071	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	16.34	7.77	11.45	2.34	17.77	0.00869	0.00413	0.00609	0.00125	0.00945	PASS



Extreme (50°C)		8.08	17.89	10.18	3.08	2.89	0.00430	0.00952	0.00542	0.00164	0.00154	PASS
Extreme (40°C)		16.01	4.65	15.23	14.01	3.65	0.00852	0.00247	0.00810	0.00745	0.00194	PASS
Extreme (30°C)		14.54	7.41	10.42	17.54	17.41	0.00773	0.00394	0.00554	0.00933	0.00926	PASS
Extreme (20°C)		10.83	14.91	9.93	9.83	5.91	0.00576	0.00793	0.00528	0.00523	0.00315	PASS
Extreme (10°C)		5.42	6.64	15.95	16.42	12.64	0.00288	0.00353	0.00849	0.00873	0.00672	PASS
Extreme (0°C)		17.78	2.84	2.06	6.78	11.84	0.00946	0.00151	0.00110	0.00361	0.00630	PASS
Extreme (-10°C)		15.75	11.38	11.62	5.75	11.38	0.00838	0.00605	0.00618	0.00306	0.00605	PASS
Extreme (-20°C)		14.51	14.70	6.65	12.51	11.70	0.00772	0.00782	0.00354	0.00665	0.00622	PASS
Extreme (-30°C)		11.78	9.33	5.38	6.78	13.33	0.00626	0.00496	0.00286	0.00361	0.00709	PASS
25°C	LV	10.23	11.21	11.43	10.23	5.21	0.00544	0.00596	0.00608	0.00544	0.00277	PASS
	HV	11.05	7.36	7.28	4.05	13.36	0.00588	0.00391	0.00387	0.00215	0.00711	PASS

DC_5A-n77 subset 1A												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	9.39	6.50	2.12	3.39	12.50	0.00500	0.00346	0.00113	0.00180	0.00665	PASS
Extreme (50°C)		5.77	4.05	15.68	6.77	7.05	0.00307	0.00216	0.00834	0.00360	0.00375	PASS
Extreme (40°C)		14.38	5.22	10.66	2.38	12.22	0.00765	0.00278	0.00567	0.00126	0.00650	PASS
Extreme (30°C)		2.66	4.93	3.77	5.66	14.93	0.00141	0.00262	0.00201	0.00301	0.00794	PASS
Extreme (20°C)		9.64	4.92	8.93	5.64	16.92	0.00513	0.00262	0.00475	0.00300	0.00900	PASS
Extreme (10°C)		11.35	13.85	4.07	10.35	6.85	0.00604	0.00736	0.00216	0.00551	0.00364	PASS
Extreme (0°C)		5.02	17.11	7.55	14.02	10.11	0.00267	0.00910	0.00402	0.00746	0.00538	PASS
Extreme (-10°C)		1.04	11.98	6.45	17.04	4.98	0.00055	0.00637	0.00343	0.00906	0.00265	PASS
Extreme (-20°C)		11.08	7.39	12.82	12.08	16.39	0.00589	0.00393	0.00682	0.00643	0.00872	PASS
Extreme (-30°C)		13.76	7.57	3.72	7.76	7.57	0.00732	0.00403	0.00198	0.00413	0.00403	PASS
25°C	LV	13.65	16.23	7.28	7.65	5.23	0.00726	0.00864	0.00387	0.00407	0.00278	PASS
	HV	10.26	13.57	12.17	10.26	10.57	0.00546	0.00722	0.00647	0.00546	0.00562	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	14.98	11.70	9.17	9.98	8.70	0.00797	0.00622	0.00488	0.00531	0.00463	PASS
Extreme (50°C)		14.80	13.36	1.61	2.80	7.36	0.00787	0.00711	0.00086	0.00149	0.00392	PASS
Extreme (40°C)		17.49	14.38	5.53	7.49	5.38	0.00930	0.00765	0.00294	0.00399	0.00286	PASS
Extreme (30°C)		9.69	14.51	9.58	2.69	17.51	0.00515	0.00772	0.00509	0.00143	0.00931	PASS
Extreme (20°C)		14.98	7.41	8.51	12.98	16.41	0.00797	0.00394	0.00453	0.00690	0.00873	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Extreme (10°C)		17.96	3.35	13.97	3.96	5.35	0.00955	0.00178	0.00743	0.00211	0.00284	PASS
Extreme (0°C)		15.35	7.38	16.21	17.35	1.38	0.00817	0.00393	0.00862	0.00923	0.00073	PASS
Extreme (-10°C)		5.10	16.71	7.59	4.10	4.71	0.00271	0.00889	0.00404	0.00218	0.00251	PASS
Extreme (-20°C)		13.78	16.74	5.75	11.78	5.74	0.00733	0.00891	0.00306	0.00627	0.00305	PASS
Extreme (-30°C)		11.40	17.99	5.88	15.40	13.99	0.00606	0.00957	0.00313	0.00819	0.00744	PASS
25°C	LV	15.70	6.55	13.56	8.70	7.55	0.00835	0.00348	0.00721	0.00463	0.00402	PASS
	HV	15.51	8.17	14.93	7.51	1.17	0.00825	0.00435	0.00794	0.00400	0.00062	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.46	7.75	11.87	12.46	12.75	0.00290	0.00412	0.00631	0.00663	0.00678	PASS
Extreme (50°C)		7.28	2.15	12.87	12.28	8.15	0.00387	0.00114	0.00685	0.00653	0.00434	PASS
Extreme (40°C)		5.72	15.24	13.31	10.72	7.24	0.00304	0.00811	0.00708	0.00570	0.00385	PASS
Extreme (30°C)		2.12	16.55	15.85	7.12	13.55	0.00113	0.00880	0.00843	0.00379	0.00721	PASS
Extreme (20°C)		4.60	7.00	4.61	15.60	4.00	0.00245	0.00372	0.00245	0.00830	0.00213	PASS
Extreme (10°C)		9.90	14.91	10.38	4.90	1.91	0.00527	0.00793	0.00552	0.00261	0.00102	PASS
Extreme (0°C)		11.14	4.95	2.19	8.14	11.95	0.00592	0.00263	0.00117	0.00433	0.00636	PASS
Extreme (-10°C)		7.57	17.91	8.92	17.57	16.91	0.00403	0.00953	0.00474	0.00934	0.00899	PASS
Extreme (-20°C)		4.49	8.33	8.01	6.49	5.33	0.00239	0.00443	0.00426	0.00345	0.00283	PASS
Extreme (-30°C)		12.80	10.52	3.84	7.80	10.52	0.00681	0.00559	0.00204	0.00415	0.00559	PASS
25°C	LV	6.53	13.46	14.44	2.53	8.46	0.00347	0.00716	0.00768	0.00134	0.00450	PASS
	HV	7.90	6.35	2.13	9.90	16.35	0.00420	0.00338	0.00114	0.00526	0.00870	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	10.17	6.51	17.04	15.17	8.51	0.00541	0.00346	0.00906	0.00807	0.00453	PASS
Extreme (50°C)		11.56	14.59	4.32	5.56	14.59	0.00615	0.00776	0.00230	0.00296	0.00776	PASS
Extreme (40°C)		1.07	9.74	17.47	1.07	6.74	0.00057	0.00518	0.00929	0.00057	0.00359	PASS
Extreme (30°C)		4.32	17.72	5.92	3.32	7.72	0.00230	0.00942	0.00315	0.00177	0.00410	PASS
Extreme (20°C)		8.52	10.57	11.83	16.52	11.57	0.00453	0.00562	0.00629	0.00879	0.00616	PASS
Extreme (10°C)		16.13	9.27	6.08	15.13	4.27	0.00858	0.00493	0.00323	0.00805	0.00227	PASS
Extreme (0°C)		2.27	8.00	17.57	2.27	7.00	0.00121	0.00426	0.00934	0.00121	0.00372	PASS
Extreme (-10°C)		7.86	9.79	4.81	13.86	4.79	0.00418	0.00521	0.00256	0.00737	0.00255	PASS
Extreme (-20°C)		15.37	10.48	6.47	6.37	12.48	0.00818	0.00557	0.00344	0.00339	0.00664	PASS
Extreme (-30°C)		6.77	1.56	10.60	11.77	2.56	0.00360	0.00083	0.00564	0.00626	0.00136	PASS
25°C	LV	6.74	9.94	4.57	13.74	9.94	0.00358	0.00529	0.00243	0.00731	0.00529	PASS
	HV	5.50	10.97	4.35	5.50	3.97	0.00293	0.00583	0.00232	0.00293	0.00211	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.55	5.92	8.28	1.55	6.92	0.00402	0.00315	0.00440	0.00083	0.00368	PASS
Extreme (50°C)		5.45	14.02	6.19	16.45	17.02	0.00290	0.00745	0.00329	0.00875	0.00905	PASS
Extreme (40°C)		8.81	7.64	4.48	10.81	7.64	0.00469	0.00407	0.00238	0.00575	0.00407	PASS
Extreme (30°C)		7.58	14.66	17.54	3.58	10.66	0.00403	0.00780	0.00933	0.00191	0.00567	PASS
Extreme (20°C)		11.18	2.70	3.01	15.18	1.70	0.00595	0.00143	0.00160	0.00808	0.00090	PASS
Extreme (10°C)		14.70	13.26	13.18	4.70	5.26	0.00782	0.00705	0.00701	0.00250	0.00280	PASS
Extreme (0°C)		12.47	6.87	3.48	7.47	17.87	0.00663	0.00366	0.00185	0.00397	0.00951	PASS
Extreme (-10°C)		13.10	5.22	13.45	1.10	14.22	0.00697	0.00277	0.00715	0.00059	0.00756	PASS
Extreme (-20°C)		15.52	2.54	14.73	3.52	16.54	0.00826	0.00135	0.00783	0.00187	0.00880	PASS
Extreme (-30°C)		7.62	14.44	4.59	4.62	12.44	0.00405	0.00768	0.00244	0.00246	0.00662	PASS
25°C	LV	7.39	1.10	11.12	2.39	15.10	0.00393	0.00059	0.00592	0.00127	0.00803	PASS
	HV	4.14	7.09	8.41	5.14	2.09	0.00220	0.00377	0.00447	0.00274	0.00111	PASS

NR N77 subset 2												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	1.55	14.84	6.22	6.55	11.84	0.00082	0.00789	0.00331	0.00348	0.00630	PASS
Extreme (50°C)		14.41	16.91	8.43	4.41	7.91	0.00766	0.00900	0.00448	0.00234	0.00421	PASS
Extreme (40°C)		9.68	14.10	11.46	12.68	12.10	0.00515	0.00750	0.00609	0.00675	0.00644	PASS
Extreme (30°C)		13.17	14.71	6.73	8.17	14.71	0.00701	0.00783	0.00358	0.00435	0.00783	PASS
Extreme (20°C)		10.33	12.52	1.20	8.33	14.52	0.00549	0.00666	0.00064	0.00443	0.00772	PASS
Extreme (10°C)		10.52	8.44	7.85	2.52	3.44	0.00559	0.00449	0.00418	0.00134	0.00183	PASS
Extreme (0°C)		13.27	10.86	14.68	4.27	9.86	0.00706	0.00578	0.00781	0.00227	0.00525	PASS
Extreme (-10°C)		12.92	7.61	6.36	6.92	14.61	0.00687	0.00405	0.00338	0.00368	0.00777	PASS
Extreme (-20°C)		10.37	17.40	8.46	11.37	4.40	0.00551	0.00926	0.00450	0.00605	0.00234	PASS
Extreme (-30°C)		12.53	12.23	1.58	13.53	16.23	0.00667	0.00650	0.00084	0.00720	0.00863	PASS
25°C	LV	16.85	3.05	10.11	4.85	16.05	0.00896	0.00162	0.00538	0.00258	0.00854	PASS
	HV	2.87	2.02	16.68	17.87	13.02	0.00153	0.00108	0.00887	0.00951	0.00693	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	14.95	7.69	9.19	15.95	8.69	0.00795	0.00409	0.00489	0.00849	0.00462	PASS
Extreme (50°C)		11.64	5.70	3.54	13.64	7.70	0.00619	0.00303	0.00188	0.00726	0.00410	PASS
Extreme (40°C)		5.57	10.51	8.53	8.57	12.51	0.00296	0.00559	0.00454	0.00456	0.00665	PASS
Extreme (30°C)		17.79	11.17	15.31	3.79	2.17	0.00946	0.00594	0.00814	0.00201	0.00115	PASS
Extreme (20°C)		9.11	12.76	14.82	1.11	13.76	0.00485	0.00679	0.00788	0.00059	0.00732	PASS
Extreme (10°C)		16.99	6.90	17.35	11.99	11.90	0.00904	0.00367	0.00923	0.00638	0.00633	PASS
Extreme (0°C)		1.06	14.33	13.43	13.06	12.33	0.00056	0.00762	0.00714	0.00694	0.00656	PASS
Extreme (-10°C)		1.59	6.65	9.01	6.59	7.65	0.00084	0.00354	0.00479	0.00350	0.00407	PASS
Extreme (-20°C)		15.67	17.58	5.83	3.67	3.58	0.00833	0.00935	0.00310	0.00195	0.00190	PASS
Extreme (-30°C)		4.59	8.82	12.80	9.59	10.82	0.00244	0.00469	0.00681	0.00510	0.00575	PASS
25°C	LV	3.98	9.52	14.82	10.98	8.52	0.00212	0.00507	0.00788	0.00584	0.00453	PASS
	HV	8.59	8.18	6.63	13.59	11.18	0.00457	0.00435	0.00352	0.00723	0.00595	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.37	9.46	12.51	1.37	6.46	0.00445	0.00503	0.00665	0.00073	0.00344	PASS
Extreme (50°C)		10.78	11.50	5.89	1.78	12.50	0.00573	0.00612	0.00313	0.00095	0.00665	PASS
Extreme (40°C)		17.15	15.01	9.38	2.15	2.01	0.00912	0.00798	0.00499	0.00114	0.00107	PASS
Extreme (30°C)		13.52	2.18	5.91	14.52	17.18	0.00719	0.00116	0.00314	0.00772	0.00914	PASS
Extreme (20°C)		2.16	1.01	9.51	3.16	5.01	0.00115	0.00054	0.00506	0.00168	0.00266	PASS
Extreme (10°C)		3.83	2.24	7.23	14.83	17.24	0.00203	0.00119	0.00385	0.00789	0.00917	PASS
Extreme (0°C)		5.47	1.25	4.58	16.47	10.25	0.00291	0.00066	0.00244	0.00876	0.00545	PASS
Extreme (-10°C)		5.60	15.58	10.43	1.60	12.58	0.00298	0.00829	0.00555	0.00085	0.00669	PASS
Extreme (-20°C)		7.83	13.85	1.33	6.83	7.85	0.00417	0.00737	0.00071	0.00363	0.00417	PASS
Extreme (-30°C)		17.39	1.08	4.68	5.39	7.08	0.00925	0.00057	0.00249	0.00287	0.00377	PASS
25°C	LV	13.97	4.39	4.58	17.97	7.39	0.00743	0.00234	0.00244	0.00956	0.00393	PASS
	HV	15.16	2.70	10.58	15.16	10.70	0.00806	0.00144	0.00563	0.00806	0.00569	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	15.45	11.52	14.52	8.45	14.52	0.00822	0.00613	0.00773	0.00449	0.00772	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Extreme (50°C)		11.06	8.63	17.39	15.06	2.63	0.00588	0.00459	0.00925	0.00801	0.00140	PASS
Extreme (40°C)		17.59	12.26	3.81	1.59	17.26	0.00935	0.00652	0.00203	0.00084	0.00918	PASS
Extreme (30°C)		5.66	16.68	10.30	13.66	11.68	0.00301	0.00887	0.00548	0.00726	0.00621	PASS
Extreme (20°C)		15.43	13.11	11.46	1.43	15.11	0.00821	0.00697	0.00609	0.00076	0.00804	PASS
Extreme (10°C)		10.79	2.10	17.55	7.79	11.10	0.00574	0.00111	0.00934	0.00415	0.00590	PASS
Extreme (0°C)		11.54	8.45	6.54	3.54	1.45	0.00614	0.00450	0.00348	0.00188	0.00077	PASS
Extreme (-10°C)		5.01	8.43	10.29	16.01	11.43	0.00266	0.00448	0.00547	0.00852	0.00608	PASS
Extreme (-20°C)		17.28	14.46	9.49	4.28	13.46	0.00919	0.00769	0.00505	0.00228	0.00716	PASS
Extreme (-30°C)		15.55	6.16	17.90	7.55	1.16	0.00827	0.00327	0.00952	0.00402	0.00062	PASS
25°C	LV	14.99	1.32	16.30	16.99	17.32	0.00798	0.00070	0.00867	0.00904	0.00921	PASS
	HV	11.90	16.70	4.15	12.90	10.70	0.00633	0.00888	0.00221	0.00686	0.00569	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.82	1.15	11.89	1.82	5.15	0.00416	0.00061	0.00632	0.00097	0.00274	PASS
Extreme (50°C)		17.77	7.90	2.17	5.77	14.90	0.00945	0.00420	0.00116	0.00307	0.00792	PASS
Extreme (40°C)		6.92	2.18	5.78	5.92	1.18	0.00368	0.00116	0.00308	0.00315	0.00063	PASS
Extreme (30°C)		8.91	7.80	14.19	14.91	3.80	0.00474	0.00415	0.00755	0.00793	0.00202	PASS
Extreme (20°C)		13.88	9.73	3.84	10.88	5.73	0.00738	0.00517	0.00204	0.00579	0.00305	PASS
Extreme (10°C)		7.06	12.09	3.98	3.06	1.09	0.00375	0.00643	0.00212	0.00163	0.00058	PASS
Extreme (0°C)		6.12	1.35	10.54	9.12	14.35	0.00325	0.00072	0.00561	0.00485	0.00764	PASS
Extreme (-10°C)		11.66	17.52	4.82	2.66	9.52	0.00620	0.00932	0.00256	0.00142	0.00507	PASS
Extreme (-20°C)		11.17	5.68	14.08	17.17	9.68	0.00594	0.00302	0.00749	0.00913	0.00515	PASS
Extreme (-30°C)		7.24	5.51	9.34	17.24	16.51	0.00385	0.00293	0.00497	0.00917	0.00878	PASS
25°C	LV	2.45	9.19	6.03	13.45	9.19	0.00130	0.00489	0.00321	0.00715	0.00489	PASS
	HV	2.42	12.53	5.48	13.42	11.53	0.00128	0.00667	0.00292	0.00714	0.00613	PASS

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Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)					
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	3.14	11.33	8.71	13.59	16.33	0.00167	0.00603	0.00464	0.00723	0.00869	PASS
Extreme (50°C)		2.18	13.80	11.14	4.81	1.80	0.00116	0.00734	0.00592	0.00256	0.00096	PASS
Extreme (40°C)		9.04	5.26	7.42	11.50	10.26	0.00481	0.00280	0.00394	0.00612	0.00546	PASS
Extreme (30°C)		11.42	8.57	16.53	4.30	12.57	0.00608	0.00456	0.00879	0.00229	0.00669	PASS
Extreme (20°C)		5.03	15.88	1.53	7.16	3.88	0.00267	0.00844	0.00081	0.00381	0.00206	PASS
Extreme (10°C)		13.57	16.25	1.39	11.23	2.25	0.00722	0.00865	0.00074	0.00597	0.00120	PASS



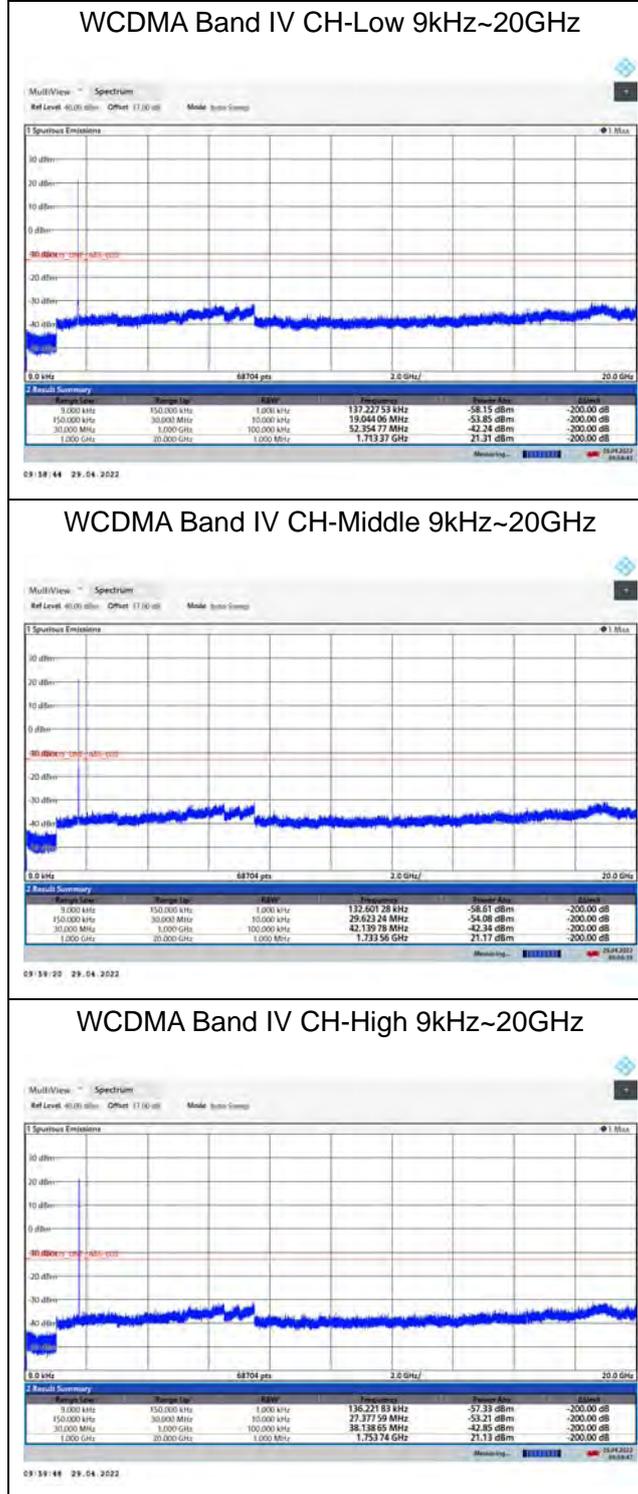
Extreme (0℃)		12.24	9.19	10.19	1.45	16.19	0.00651	0.00489	0.00542	0.00077	0.00861	PASS
Extreme (-10℃)		4.72	15.94	14.55	13.68	17.94	0.00251	0.00848	0.00774	0.00727	0.00954	PASS
Extreme (-20℃)		2.97	1.62	15.84	8.74	3.62	0.00158	0.00086	0.00843	0.00465	0.00193	PASS
Extreme (-30℃)		10.35	16.19	10.58	3.46	3.19	0.00551	0.00861	0.00563	0.00184	0.00169	PASS
25℃	LV	11.69	1.88	5.88	8.46	14.88	0.00622	0.00100	0.00313	0.00450	0.00791	PASS
	HV	8.61	8.05	2.46	12.45	13.05	0.00458	0.00428	0.00131	0.00662	0.00694	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	4.83	9.64	15.76	5.66	10.64	0.00257	0.00513	0.00838	0.00301	0.00566	PASS
Extreme (50℃)		8.04	11.84	5.74	10.42	3.84	0.00428	0.00630	0.00305	0.00554	0.00204	PASS
Extreme (40℃)		10.09	5.34	4.87	7.91	4.34	0.00537	0.00284	0.00259	0.00421	0.00231	PASS
Extreme (30℃)		2.83	10.34	2.00	5.10	4.34	0.00151	0.00550	0.00106	0.00272	0.00231	PASS
Extreme (20℃)		16.02	4.65	11.87	12.30	1.65	0.00852	0.00247	0.00632	0.00654	0.00088	PASS
Extreme (10℃)		2.54	6.69	6.47	1.09	5.69	0.00135	0.00356	0.00344	0.00058	0.00303	PASS
Extreme (0℃)		10.65	9.07	13.45	1.81	4.07	0.00567	0.00482	0.00715	0.00096	0.00216	PASS
Extreme (-10℃)		1.04	14.16	2.04	11.84	7.16	0.00055	0.00753	0.00108	0.00630	0.00381	PASS
Extreme (-20℃)		1.40	9.31	9.45	11.47	12.31	0.00075	0.00495	0.00503	0.00610	0.00655	PASS
Extreme (-30℃)		10.35	8.70	16.30	16.11	12.70	0.00551	0.00463	0.00867	0.00857	0.00676	PASS
25℃		LV	6.81	4.22	14.71	16.50	16.22	0.00362	0.00224	0.00782	0.00878	0.00863
	HV	17.86	16.10	17.96	8.14	15.10	0.00950	0.00856	0.00955	0.00433	0.00803	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	3.60	3.84	10.67	13.26	10.84	0.00192	0.00204	0.00568	0.00705	0.00577	PASS
Extreme (50℃)		5.92	1.06	7.20	6.83	11.06	0.00315	0.00056	0.00383	0.00363	0.00588	PASS
Extreme (40℃)		14.64	9.26	8.07	7.43	9.26	0.00779	0.00493	0.00429	0.00395	0.00493	PASS
Extreme (30℃)		11.73	14.14	17.25	11.69	1.14	0.00624	0.00752	0.00917	0.00622	0.00060	PASS
Extreme (20℃)		4.02	12.49	13.27	17.12	14.49	0.00214	0.00664	0.00706	0.00911	0.00771	PASS
Extreme (10℃)		12.52	3.70	2.07	5.76	11.70	0.00666	0.00197	0.00110	0.00306	0.00622	PASS
Extreme (0℃)		5.30	13.98	17.75	4.90	13.98	0.00282	0.00744	0.00944	0.00261	0.00744	PASS
Extreme (-10℃)		7.42	12.23	2.90	3.86	12.23	0.00394	0.00651	0.00154	0.00205	0.00651	PASS
Extreme (-20℃)		13.26	3.51	16.06	2.89	5.51	0.00705	0.00187	0.00854	0.00154	0.00293	PASS
Extreme (-30℃)		3.04	15.26	17.38	8.49	1.26	0.00162	0.00812	0.00925	0.00452	0.00067	PASS
25℃		LV	10.21	7.84	14.02	12.73	13.84	0.00543	0.00417	0.00746	0.00677	0.00736
	HV	1.63	10.84	5.93	11.61	13.84	0.00086	0.00576	0.00315	0.00618	0.00736	PASS



Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	8.79	9.57	9.36	10.84	4.57	0.00467	0.00509	0.00498	0.00576	0.00243	PASS
Extreme (50°C)		11.02	16.64	9.54	14.73	1.64	0.00586	0.00885	0.00507	0.00783	0.00087	PASS
Extreme (40°C)		1.12	13.95	2.63	16.39	10.95	0.00059	0.00742	0.00140	0.00872	0.00583	PASS
Extreme (30°C)		13.71	14.33	5.02	9.93	6.33	0.00729	0.00762	0.00267	0.00528	0.00337	PASS
Extreme (20°C)		12.56	3.30	2.25	12.33	11.30	0.00668	0.00175	0.00120	0.00656	0.00601	PASS
Extreme (10°C)		1.09	11.08	7.63	4.29	5.08	0.00058	0.00589	0.00406	0.00228	0.00270	PASS
Extreme (0°C)		4.15	4.55	2.31	3.25	3.55	0.00221	0.00242	0.00123	0.00173	0.00189	PASS
Extreme (-10°C)		11.83	10.59	13.59	5.38	14.59	0.00630	0.00563	0.00723	0.00286	0.00776	PASS
Extreme (-20°C)		7.22	17.51	5.18	7.40	5.51	0.00384	0.00931	0.00275	0.00394	0.00293	PASS
Extreme (-30°C)		11.52	13.45	6.35	6.69	6.45	0.00613	0.00716	0.00338	0.00356	0.00343	PASS
25°C		LV	5.10	13.34	8.71	7.55	7.34	0.00271	0.00709	0.00464	0.00402	0.00390
	HV	4.71	10.04	6.96	5.69	1.04	0.00251	0.00534	0.00370	0.00303	0.00055	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25°C)	Normal	5.09	8.52	15.46	8.87	4.52	0.00271	0.00453	0.00822	0.00472	0.00241	PASS
Extreme (50°C)		12.22	10.81	1.43	1.85	7.81	0.00650	0.00575	0.00076	0.00099	0.00415	PASS
Extreme (40°C)		9.62	11.44	1.33	10.69	9.44	0.00512	0.00609	0.00071	0.00569	0.00502	PASS
Extreme (30°C)		17.44	12.25	17.79	10.35	7.25	0.00928	0.00651	0.00946	0.00550	0.00385	PASS
Extreme (20°C)		4.57	8.22	7.36	12.77	15.22	0.00243	0.00437	0.00392	0.00679	0.00809	PASS
Extreme (10°C)		12.95	4.42	7.16	7.27	10.42	0.00689	0.00235	0.00381	0.00387	0.00554	PASS
Extreme (0°C)		17.23	11.91	3.63	12.86	11.91	0.00917	0.00634	0.00193	0.00684	0.00634	PASS
Extreme (-10°C)		10.24	3.96	6.70	14.40	7.96	0.00545	0.00211	0.00356	0.00766	0.00424	PASS
Extreme (-20°C)		13.57	7.50	7.30	12.42	14.50	0.00722	0.00399	0.00388	0.00660	0.00771	PASS
Extreme (-30°C)		5.73	16.36	1.37	7.08	5.36	0.00305	0.00870	0.00073	0.00376	0.00285	PASS
25°C		LV	4.98	12.08	12.33	6.29	15.08	0.00265	0.00643	0.00656	0.00334	0.00802
	HV	17.77	9.74	16.76	13.90	1.74	0.00945	0.00518	0.00891	0.00739	0.00092	PASS

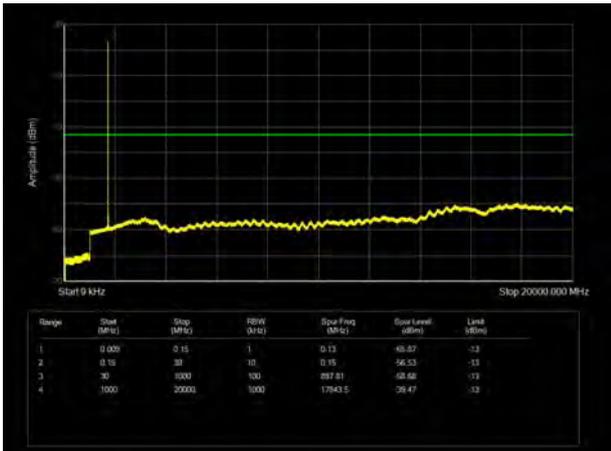
6.6 Spurious Emissions at Antenna Terminals

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported. The signal beyond the limit is carrier.

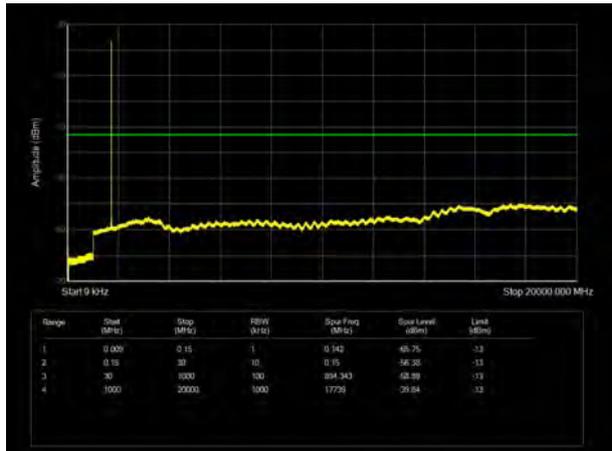




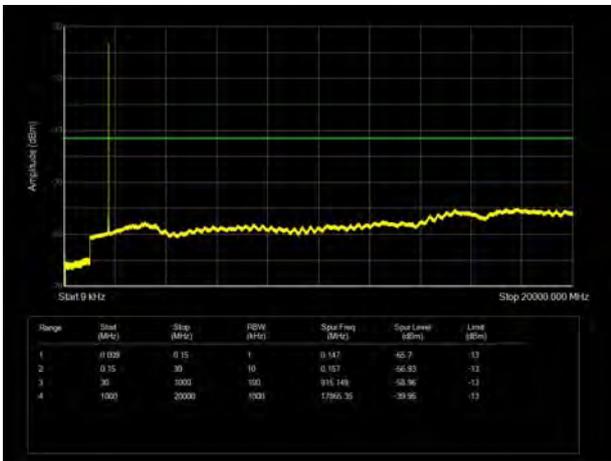
LTE Band 4 1.4MHz CH-Low 9kHz~20GHz



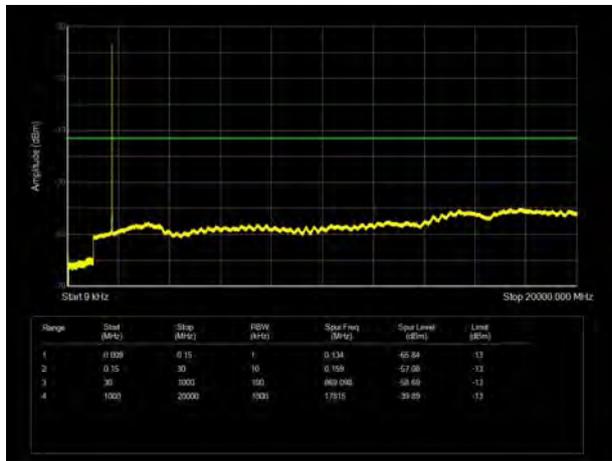
LTE Band 4 3MHz CH- Low 9kHz~20GHz



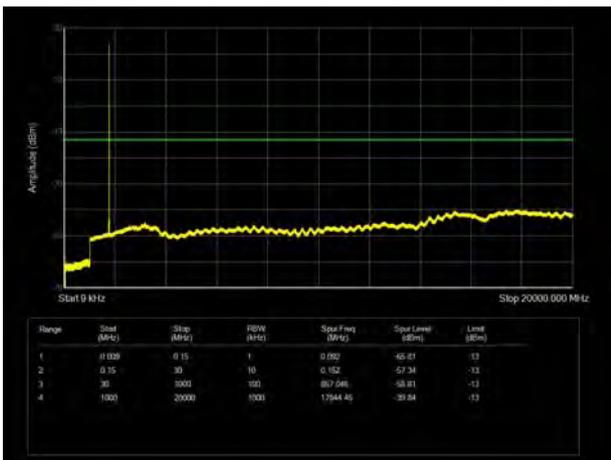
LTE Band 4 1.4MHz CH- Middle 9kHz~20GHz



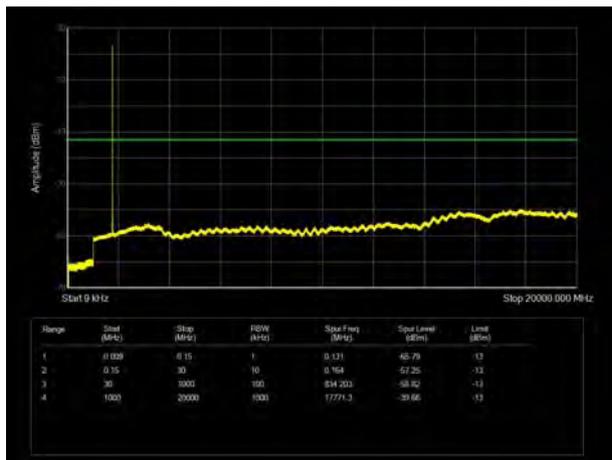
LTE Band 4 3MHz CH- Middle 9kHz~20GHz



LTE Band 4 1.4MHz CH- High 9kHz~20GHz

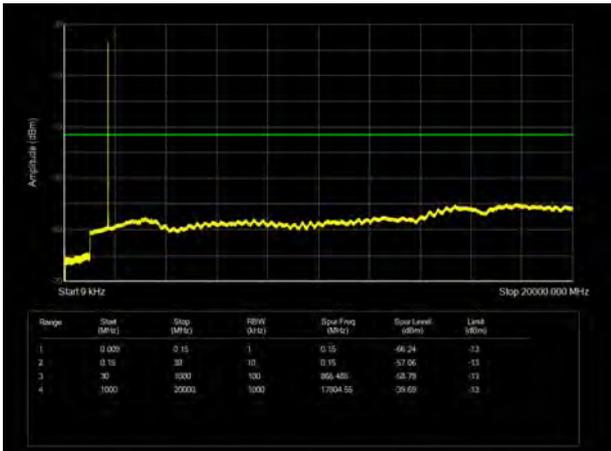


LTE Band 4 3MHz CH-High 9kHz~20GHz

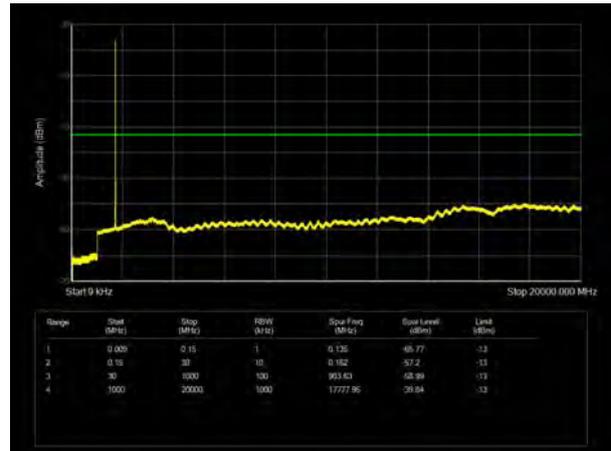




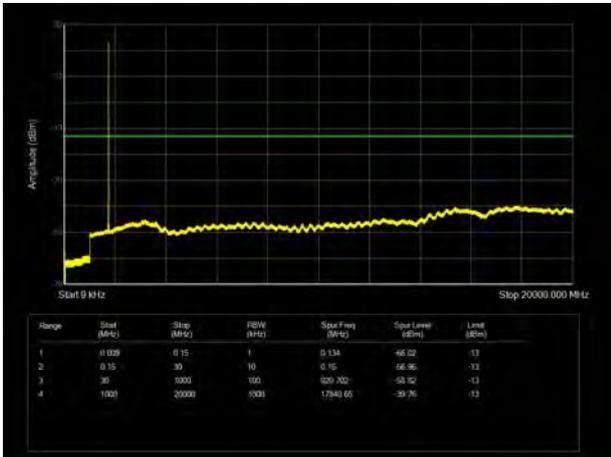
LTE Band 4 5MHz CH- Low 9kHz~20GHz



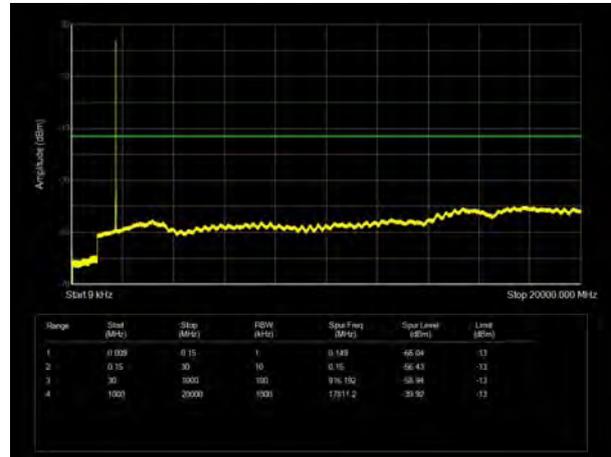
LTE Band 4 10MHz CH-Low 9kHz~20GHz



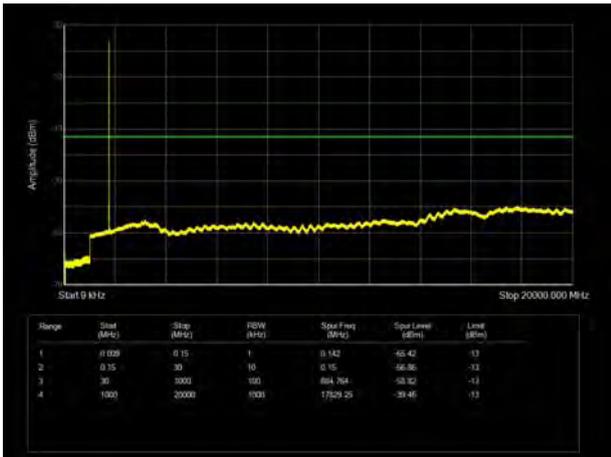
LTE Band 4 5MHz CH- Middle 9kHz~20GHz



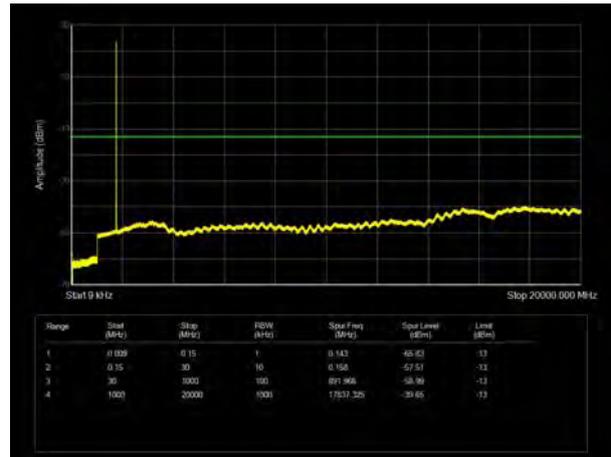
LTE Band 4 10MHz CH- Middle 9kHz~20GHz



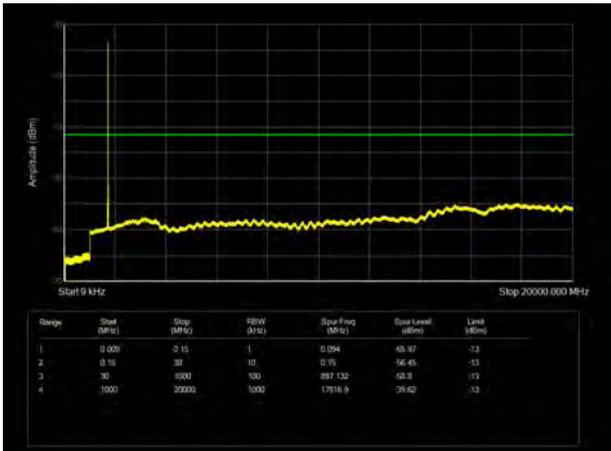
LTE Band 4 5MHz CH-High 9kHz~20GHz



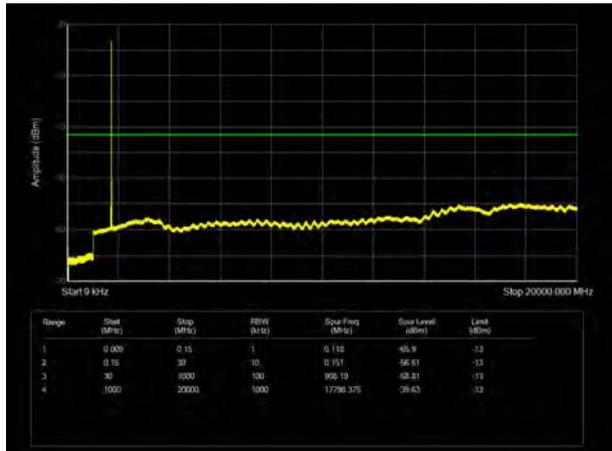
LTE Band 4 10MHz CH- High 9kHz~20GHz



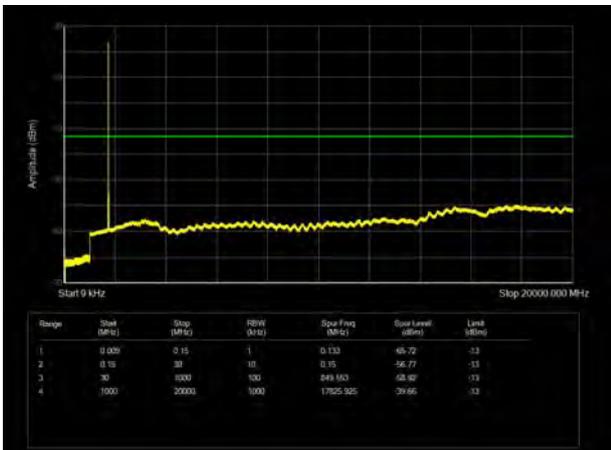
LTE Band 4 15MHz CH- Low 9kHz~20GHz



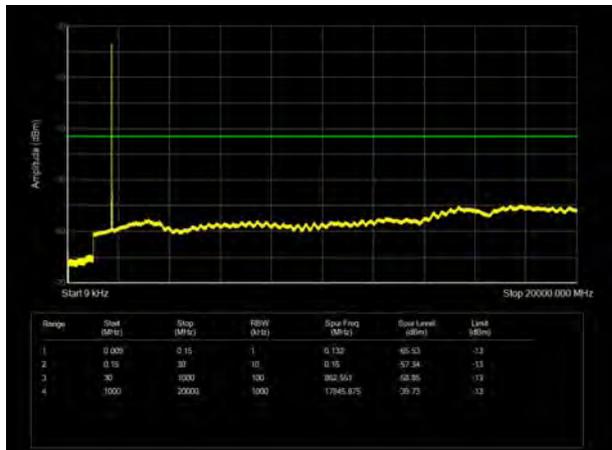
LTE Band 4 20MHz CH-Low 9kHz~20GHz



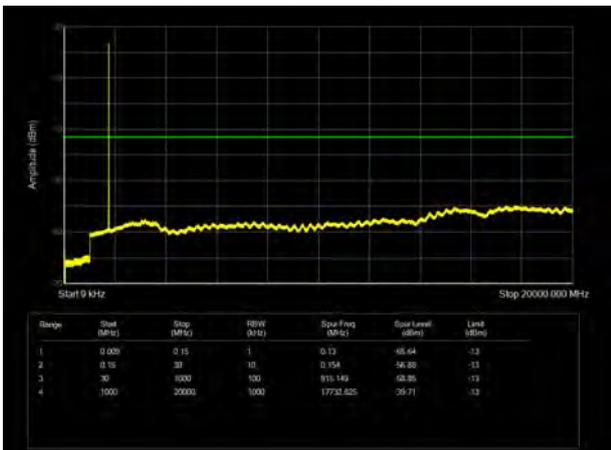
LTE Band 4 15MHz CH- Middle 9kHz~20GHz



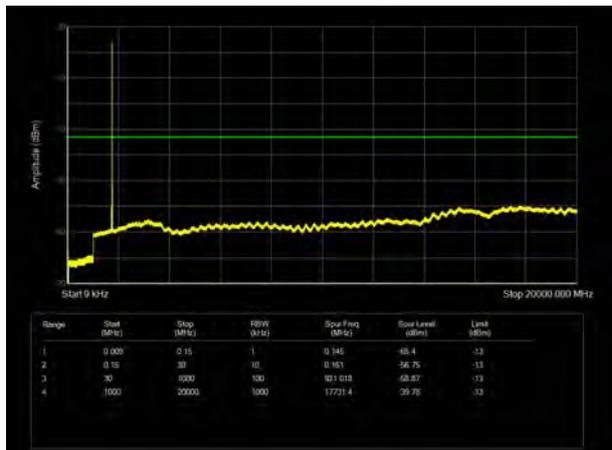
LTE Band 4 20MHz CH- Middle 9kHz~20GHz



LTE Band 4 15MHz CH-High 9kHz~20GHz

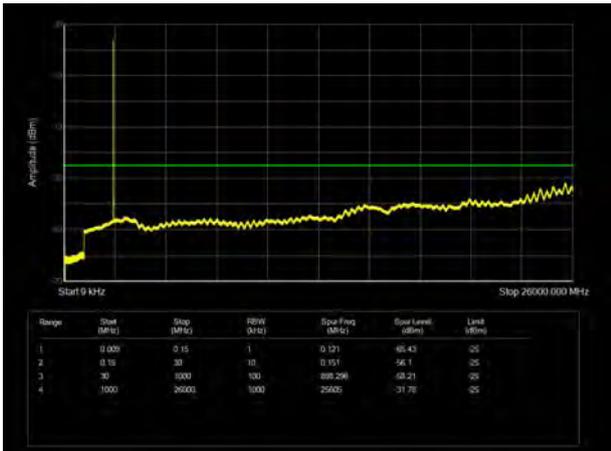


LTE Band 4 20MHz CH- High 9kHz~20GHz

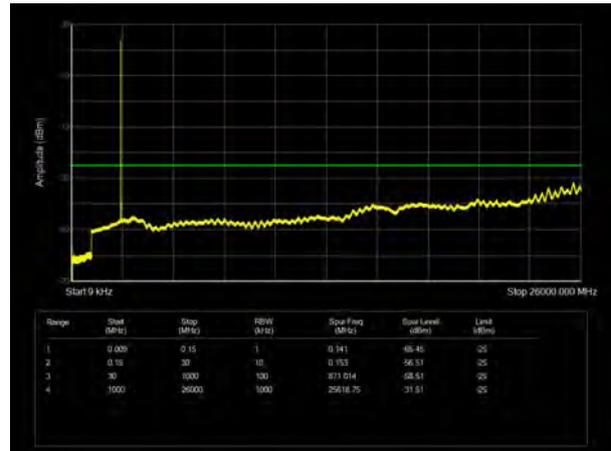




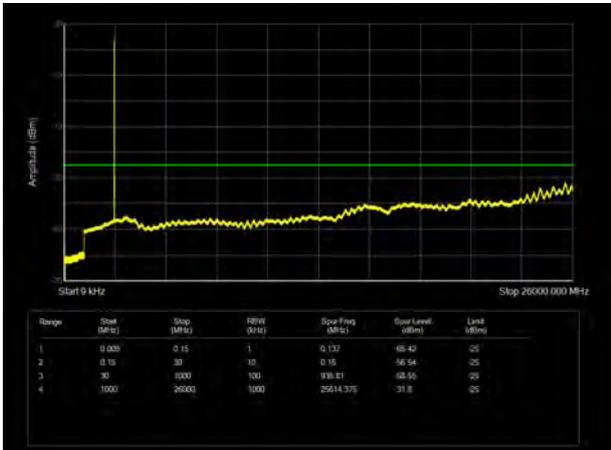
LTE Band 7 5MHz CH- Low 9kHz~26GHz



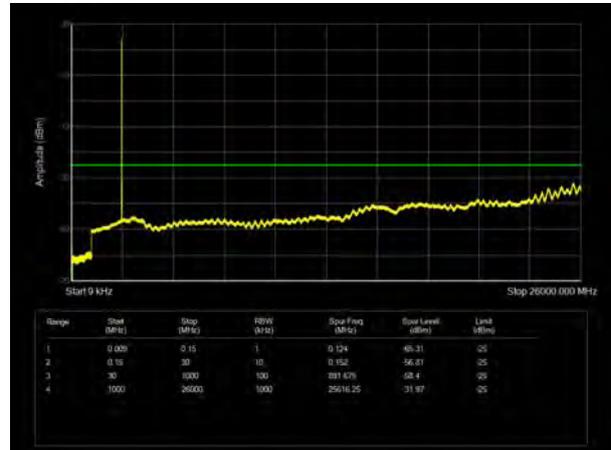
LTE Band 7 10MHz CH-Low 9kHz~26GHz



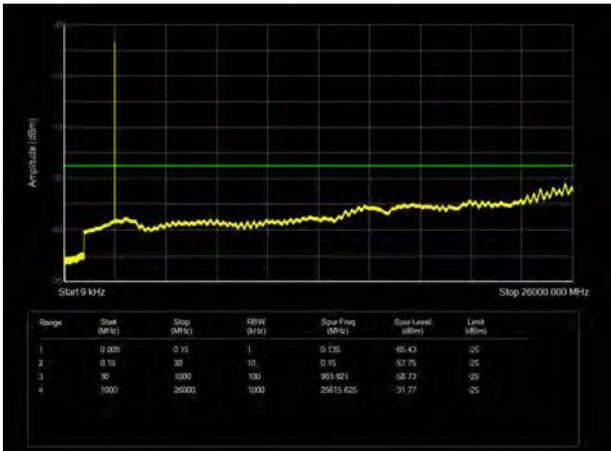
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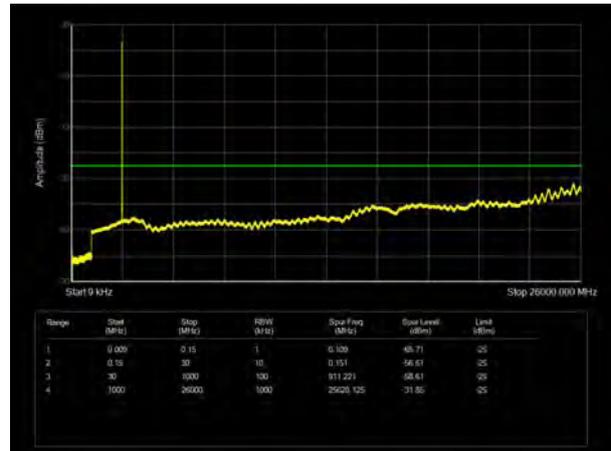
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LTE Band 7 5MHz CH-High 9kHz~26GHz

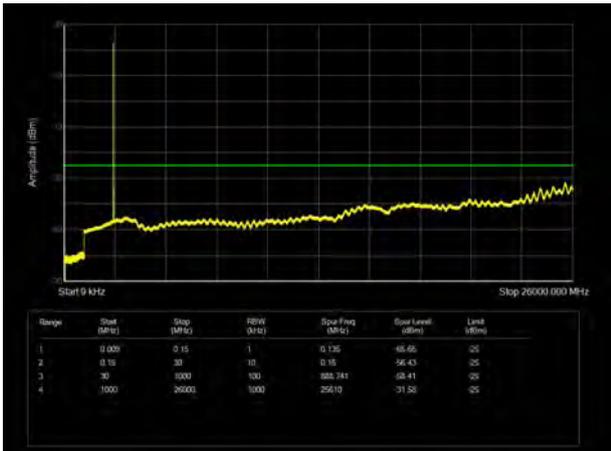


LTE Band 7 10MHz CH- High 9kHz~26GHz

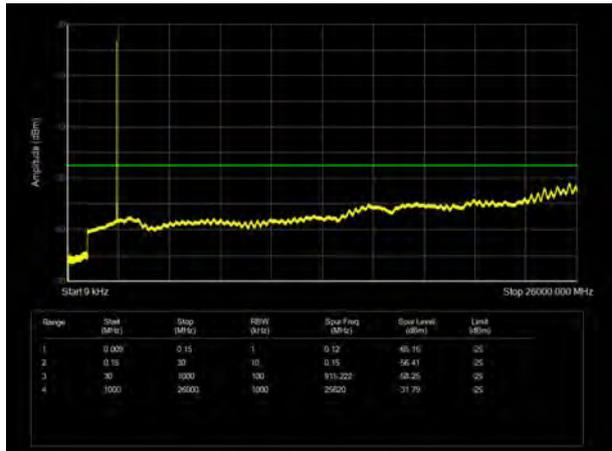




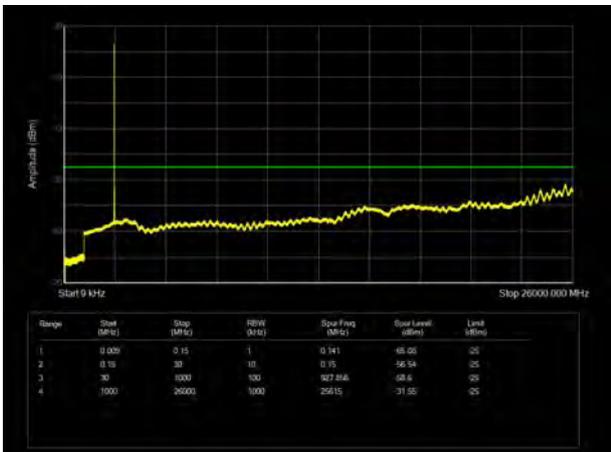
LTE Band 7 15MHz CH- Low 9kHz~26GHz



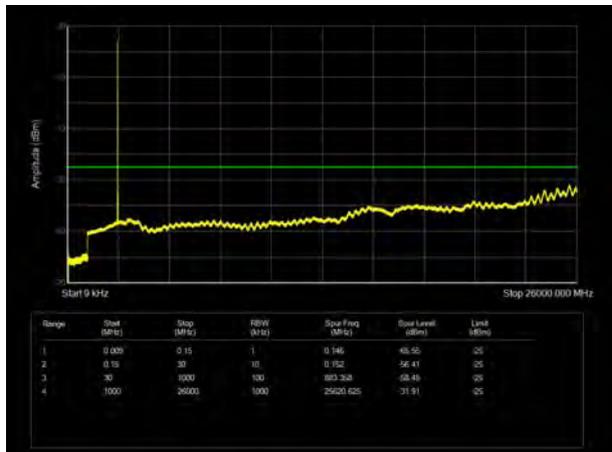
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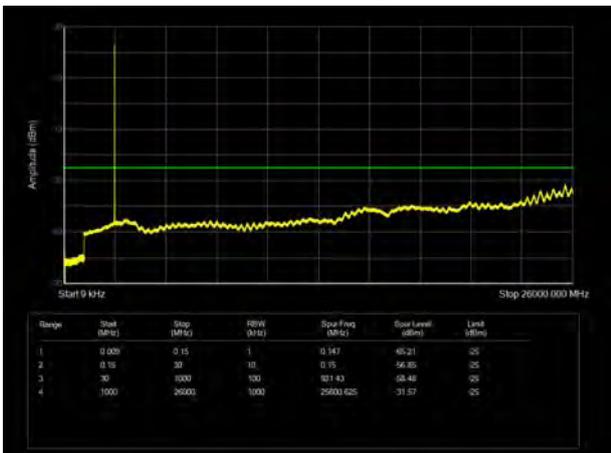
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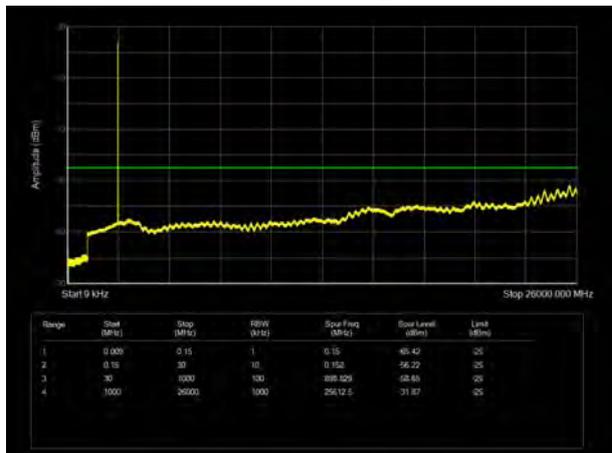
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LTE Band 7 15MHz CH-High 9kHz~26GHz

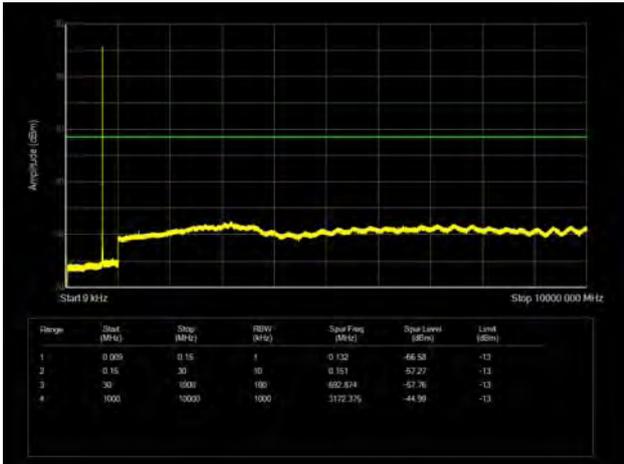


LTE Band 7 20MHz CH- High 9kHz~26GHz

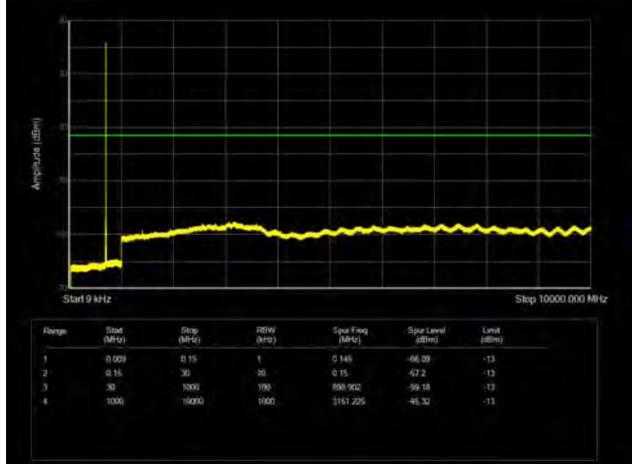




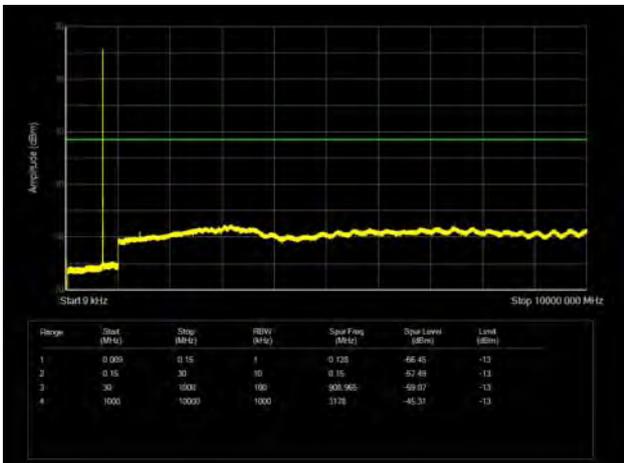
LTE Band 12 1.4MHz CH-Low 9kHz ~10GHz



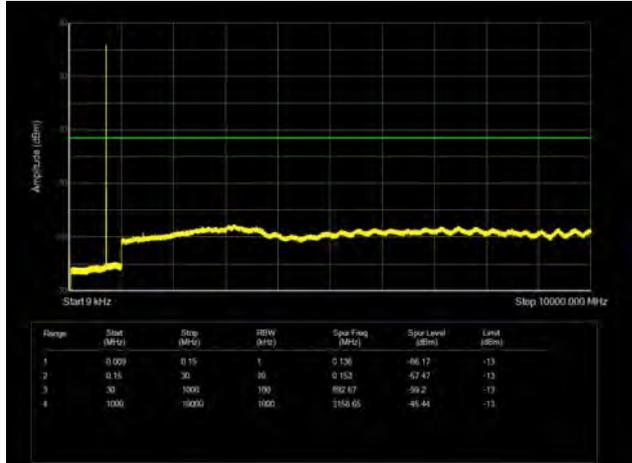
LTE Band 12 3MHz CH-Low 9kHz ~10GHz



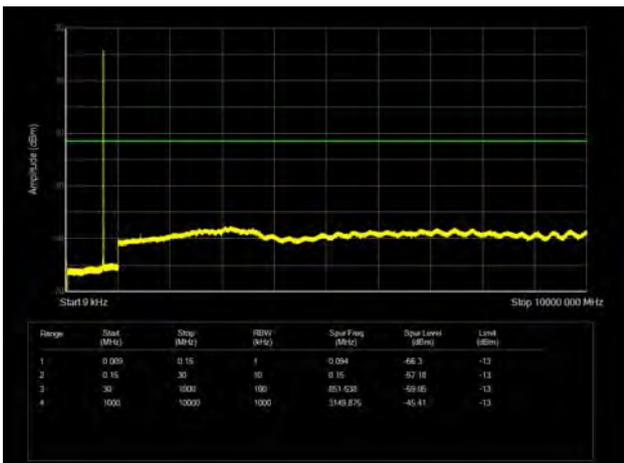
LTE Band 12 1.4MHz CH- Middle 9kHz ~10GHz



LTE Band 12 3MHz CH- Middle 9kHz ~10GHz



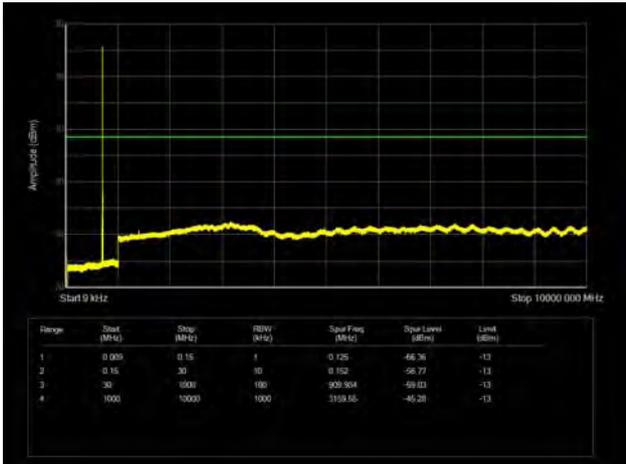
LTE Band 12 1.4MHz CH-High 9kHz ~10GHz



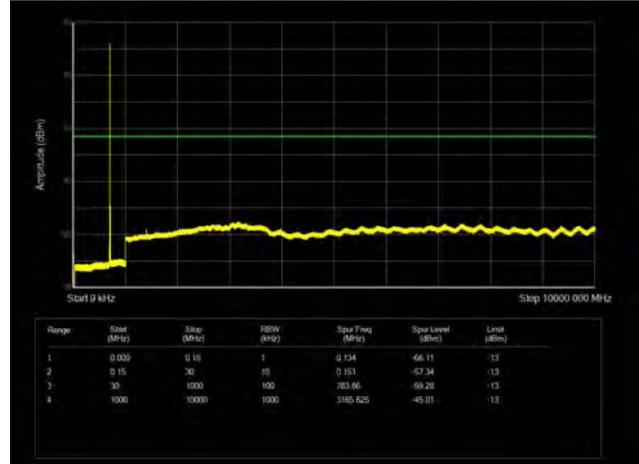
LTE Band 12 3MHz CH-High 9kHz ~10GHz



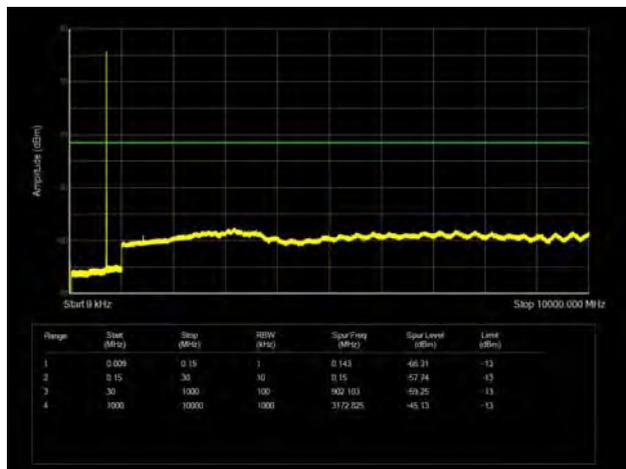
LTE Band 12 5MHz CH-Low 9kHz ~10GHz



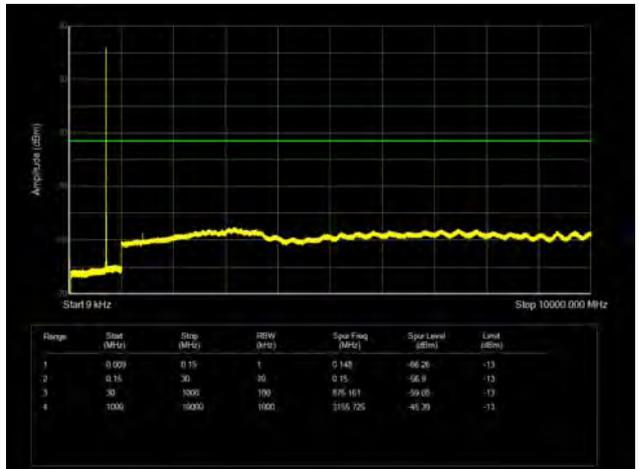
LTE Band 12 10MHz CH-Low 9kHz ~10GHz



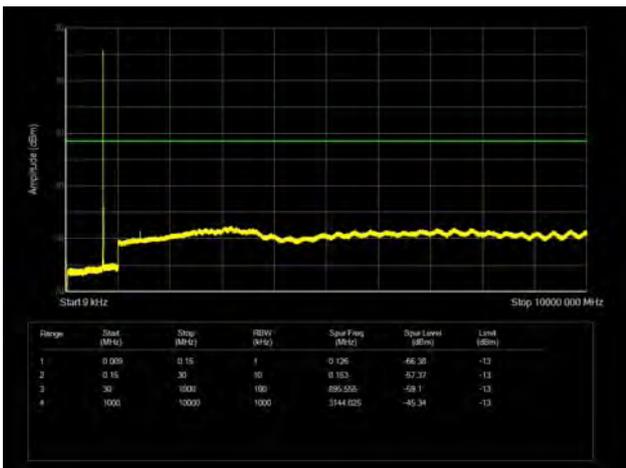
LTE Band 12 5MHz CH- Middle 9kHz ~10GHz



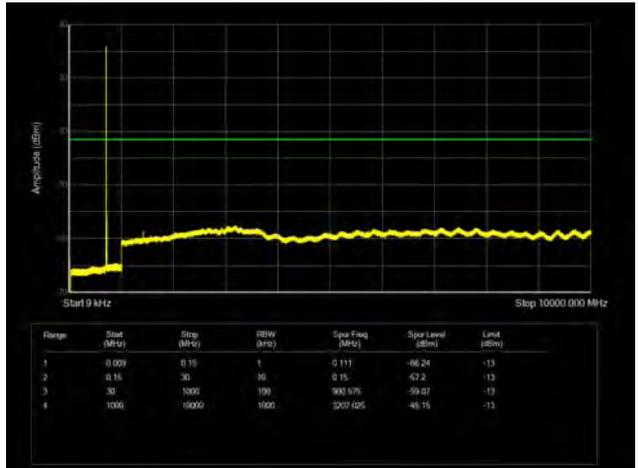
LTE Band 12 10MHz CH- Middle 9kHz ~10GHz



LTE Band 12 5MHz CH-High 9kHz ~10GHz

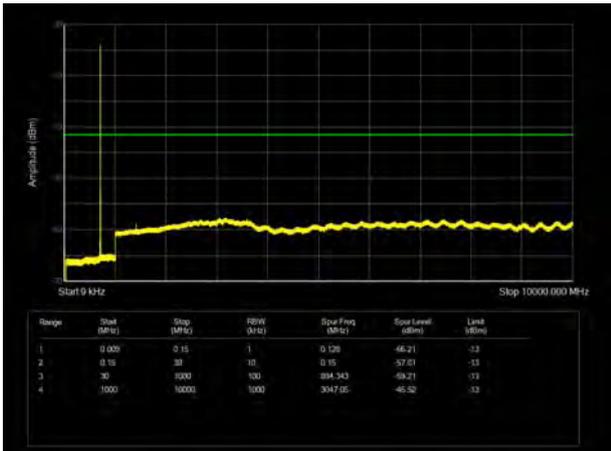


LTE Band 12 10MHz CH-High 9kHz ~10GHz

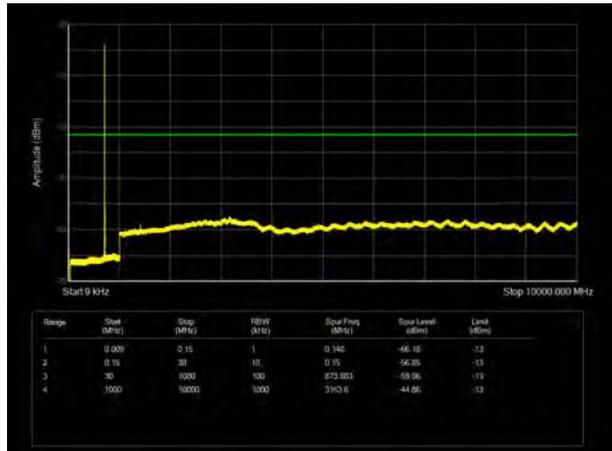




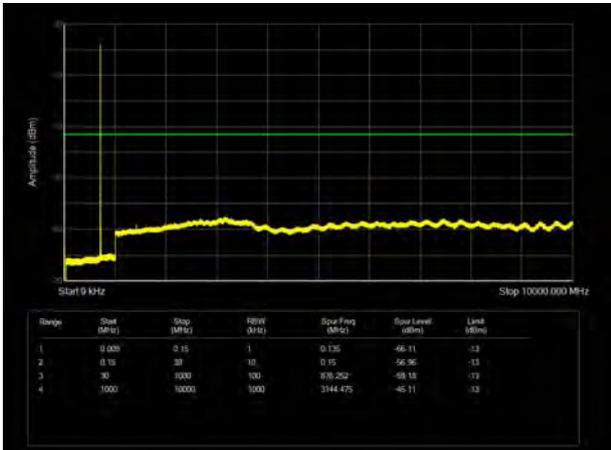
LTE Band 17 5MHz CH-Low 9kHz ~10GHz



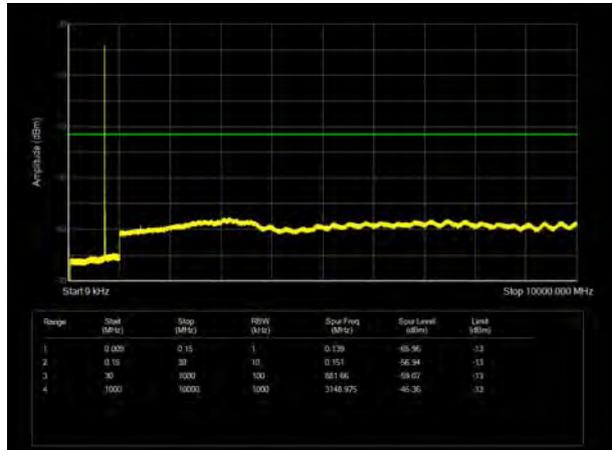
LTE Band 17 10MHz CH-Low 9kHz ~10GHz



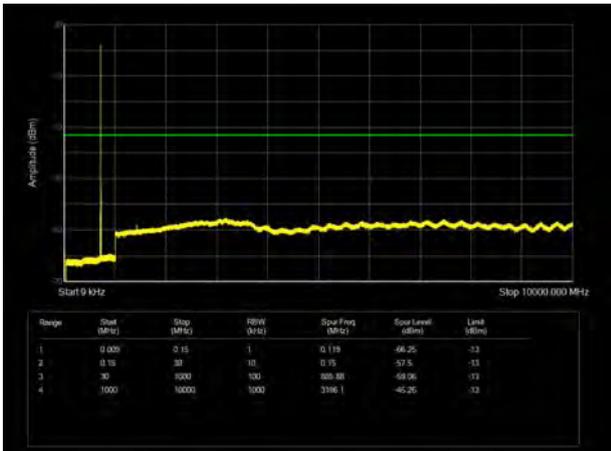
LTE Band 17 5MHz CH-Middle 9kHz ~10GHz



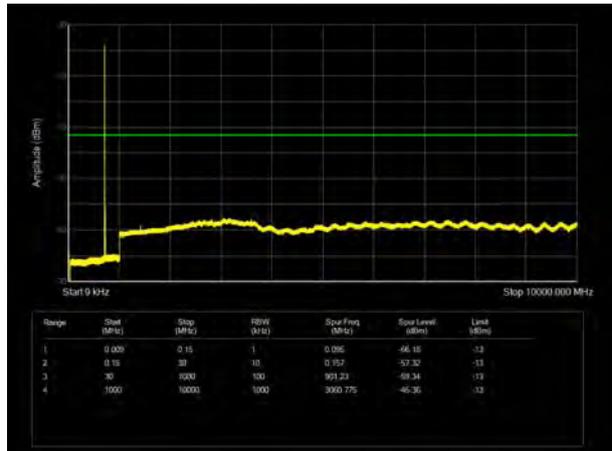
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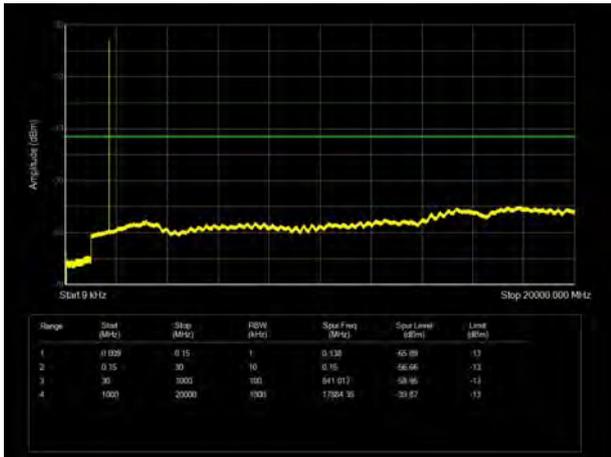
LTE Band 17 5MHz CH-High 9kHz ~10GHz



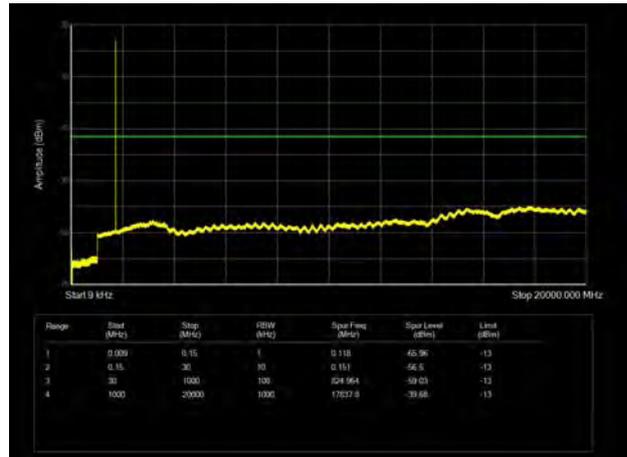
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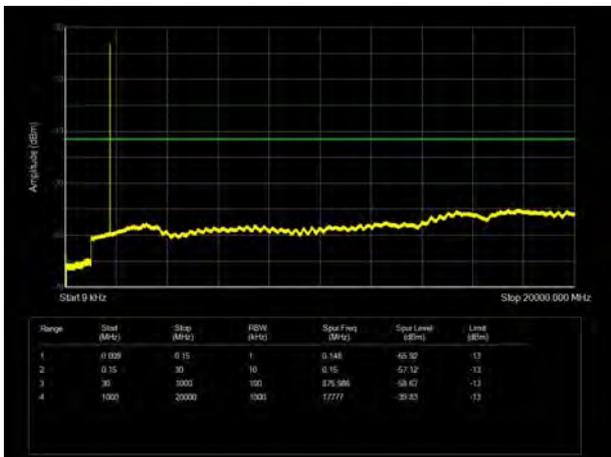
LTE Band 66 1.4MHz CH-Low 9kHz ~20GHz



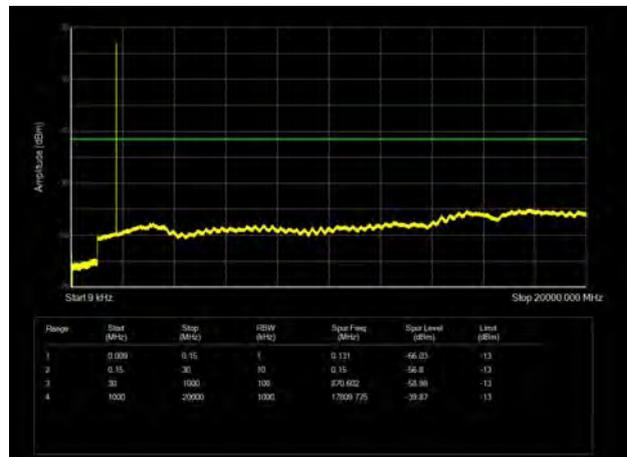
LTE Band 66 3MHz CH-Low 9kHz ~20GHz



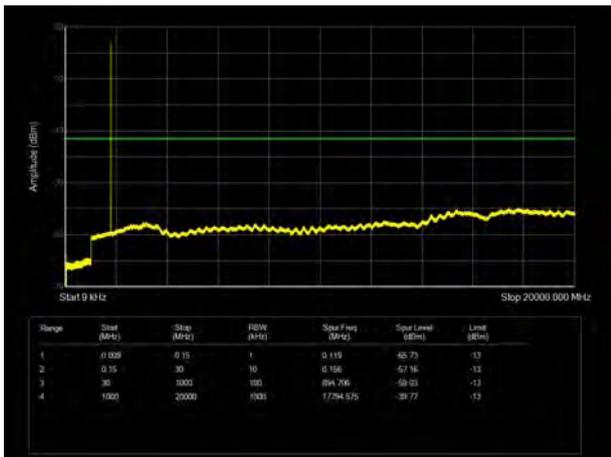
LTE Band 66 1.4MHz CH-Middle 9kHz ~20GHz



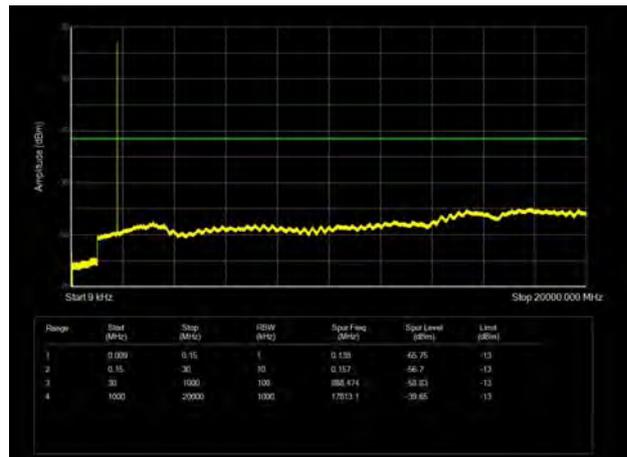
LTE Band 66 3MHz CH-Middle 9kHz ~20GHz



LTE Band 66 1.4MHz CH-High 9kHz ~20GHz

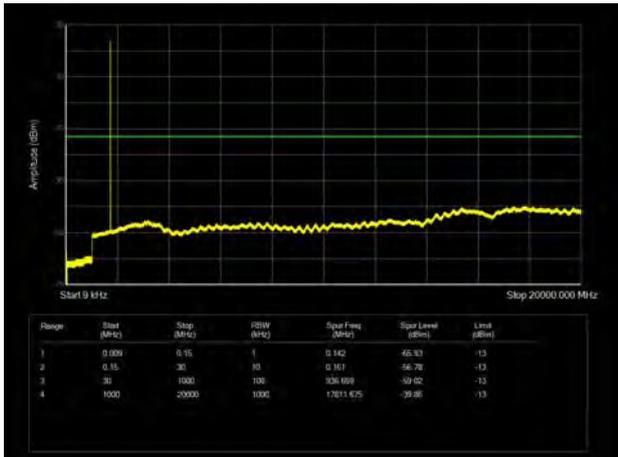


LTE Band 66 3MHz CH-High 9kHz ~20GHz

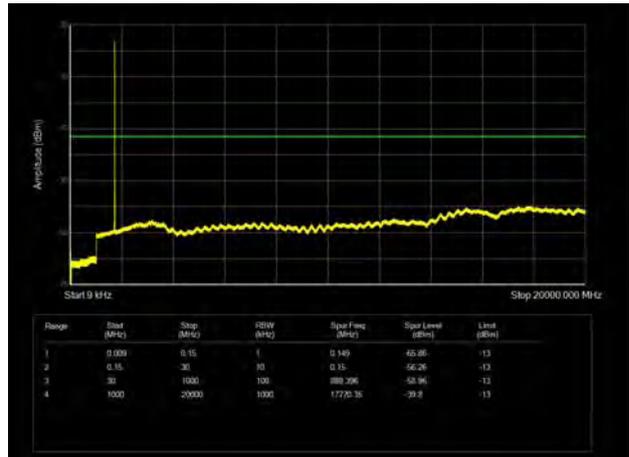




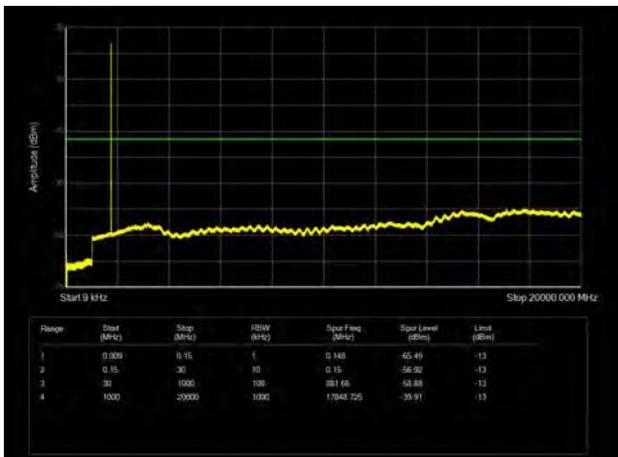
LTE Band 66 5MHz CH-Low 9kHz ~20GHz



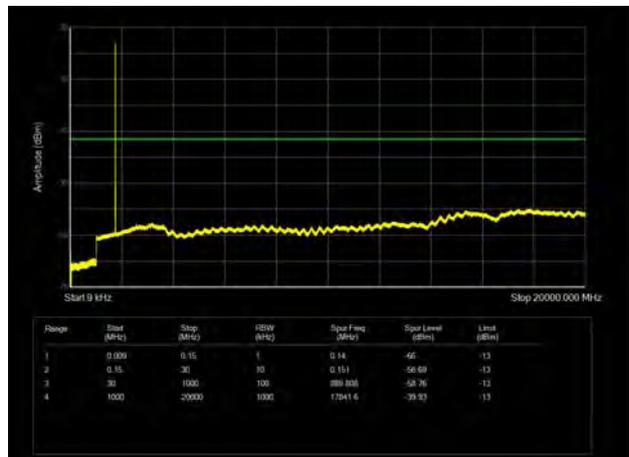
LTE Band 66 10MHz CH-Low 9kHz ~20GHz



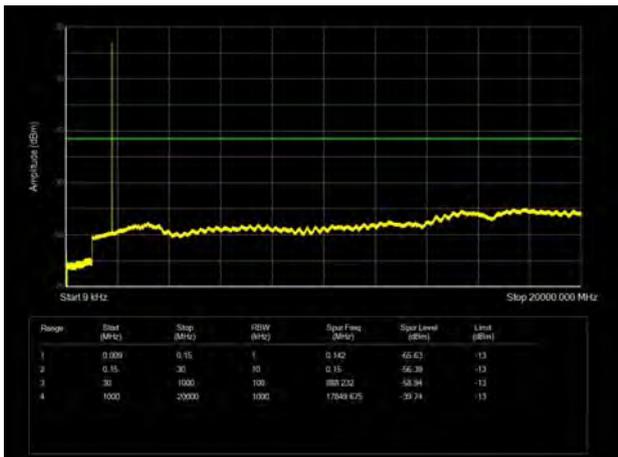
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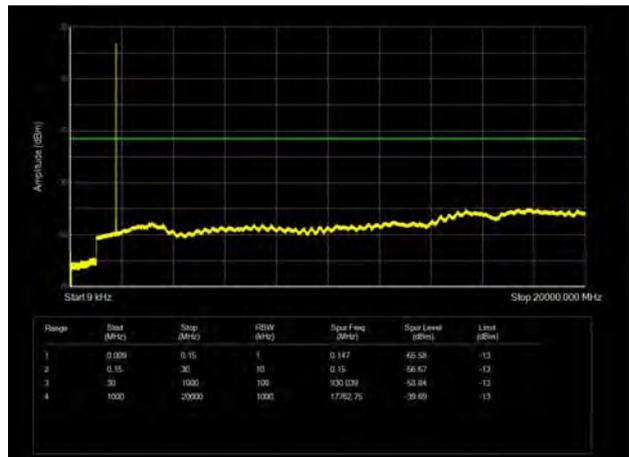
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LTE Band 66 5MHz CH-High 9kHz ~20GHz

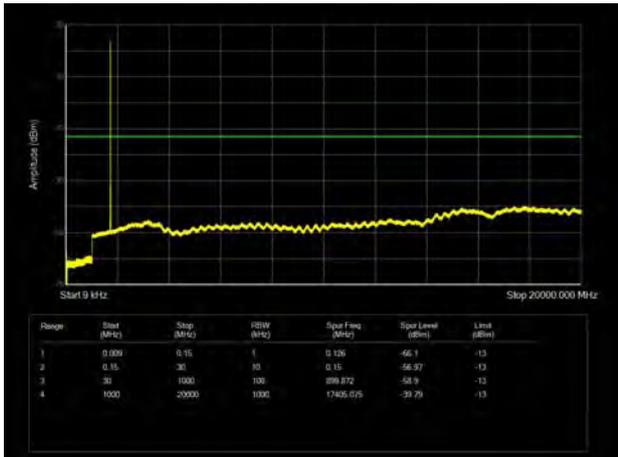


LTE Band 66 10MHz CH-High 9kHz ~20GHz

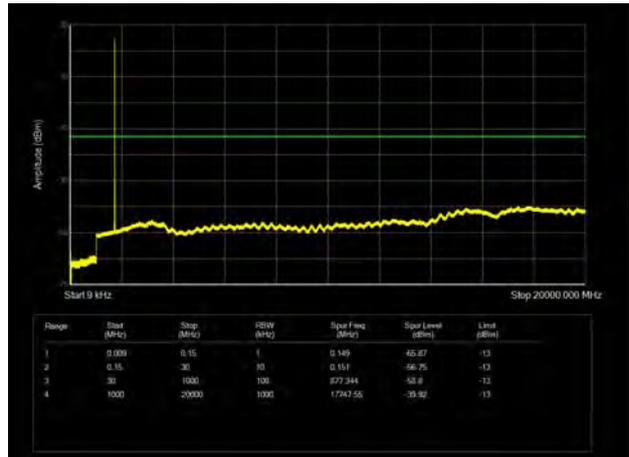




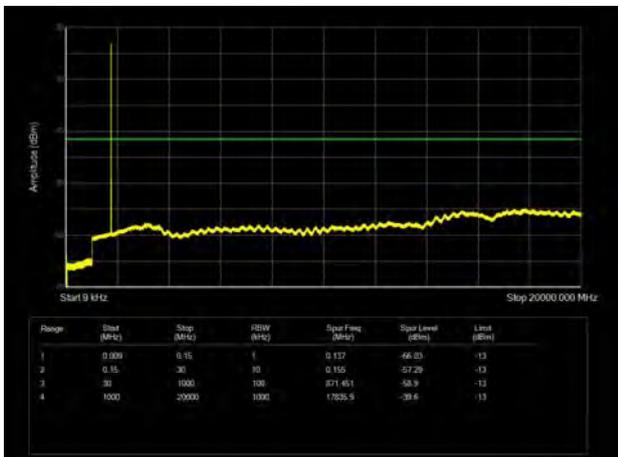
LTE Band 66 15MHz CH-Low 9kHz ~20GHz



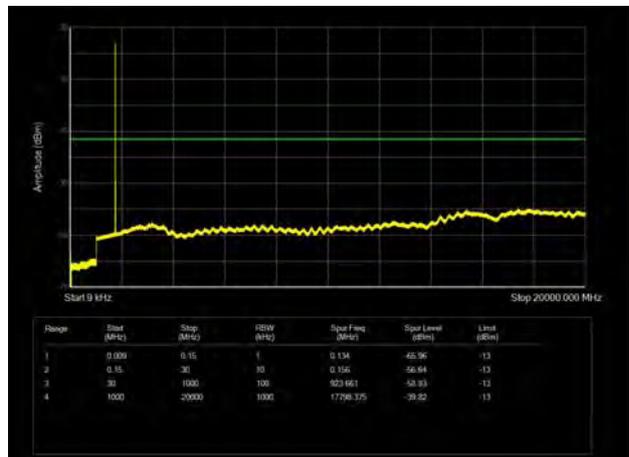
LTE Band 66 20MHz CH-Low 9kHz ~20GHz



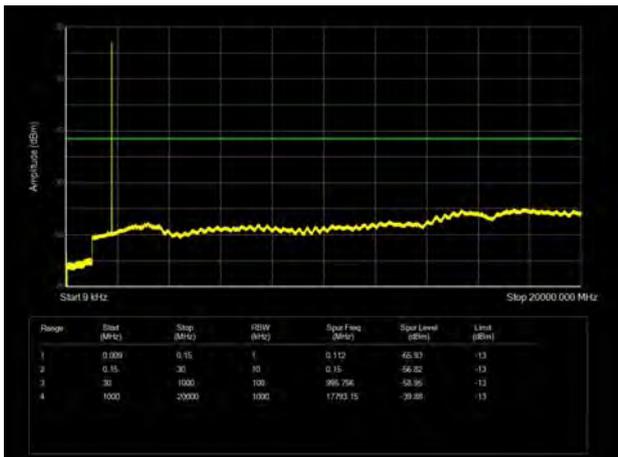
LTE Band 66 15MHz CH-Middle 9kHz ~20GHz



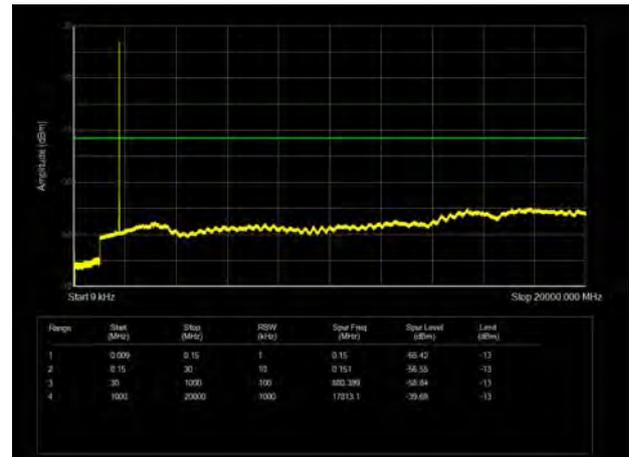
LTE Band 66 20MHz CH-Middle 9kHz ~20GHz



LTE Band 66 15MHz CH-High 9kHz ~20GHz

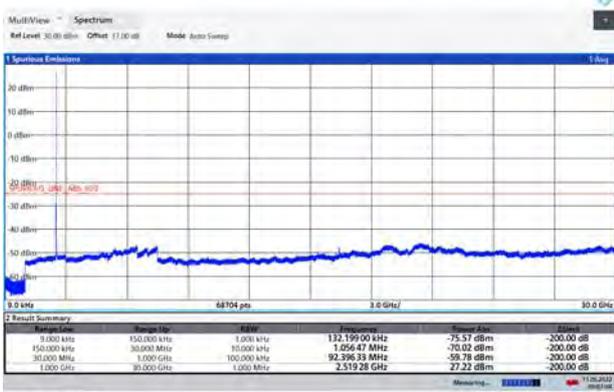


LTE Band 66 20MHz CH-High 9kHz ~20GHz





CA_7C QPSK 20MHz+10MHz CH- Low 9kHz~30GHz



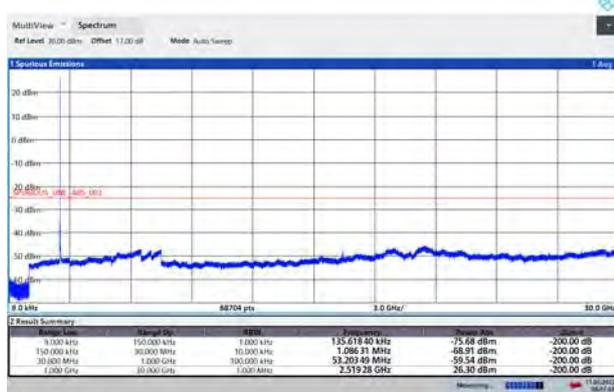
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CA_7C QPSK 20MHz+20MHz CH- Low 9kHz~30GHz



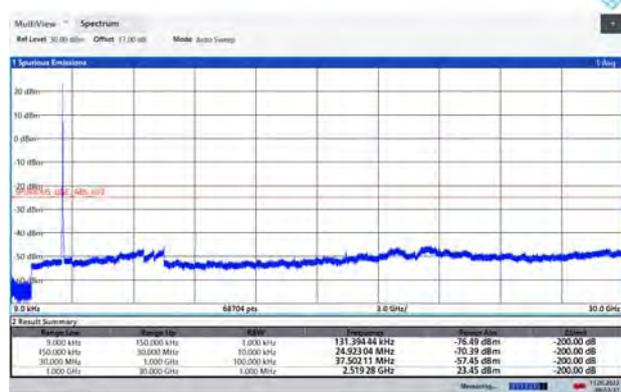
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CA_7C 16QAM 20MHz+10MHz CH- Low 9kHz~30GHz



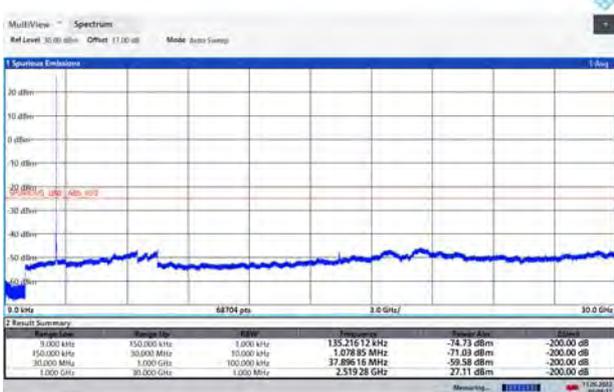
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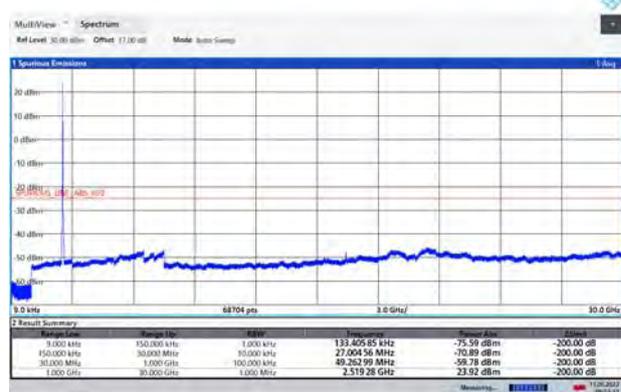
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CA_7C 64QAM 20MHz+10MHz CH- Low 9kHz~30GHz



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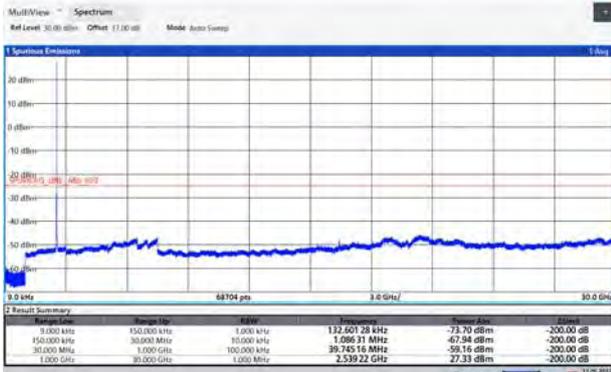
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CA_7C QPSK 20MHz+10MHz CH- Middle 9kHz~30GHz



09:13:09 11-08-2022

CA_7C QPSK 20MHz+20MHz CH- Middle 9kHz~30GHz



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CA_7C 16QAM 20MHz+10MHz CH- Middle 9kHz~30GHz



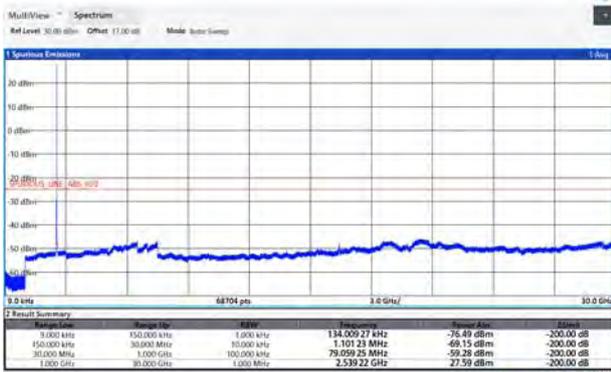
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CA_7C 16QAM 20MHz+20MHz CH- Middle 9kHz~30GHz



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CA_7C 64QAM 20MHz+10MHz CH- Middle 9kHz~30GHz



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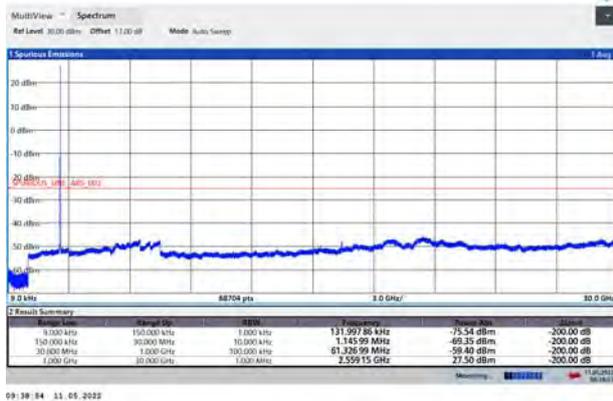
CA_7C 64QAM 20MHz+20MHz CH- Middle 9kHz~30GHz



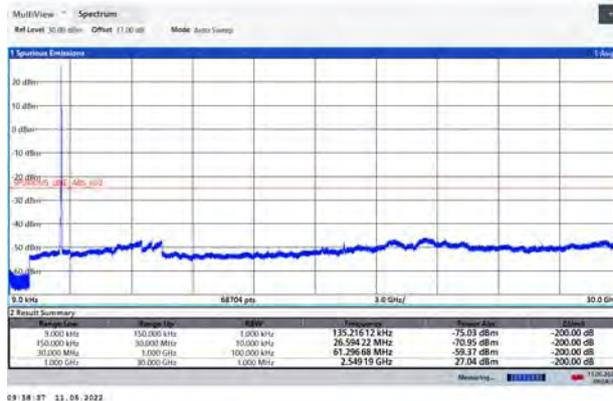
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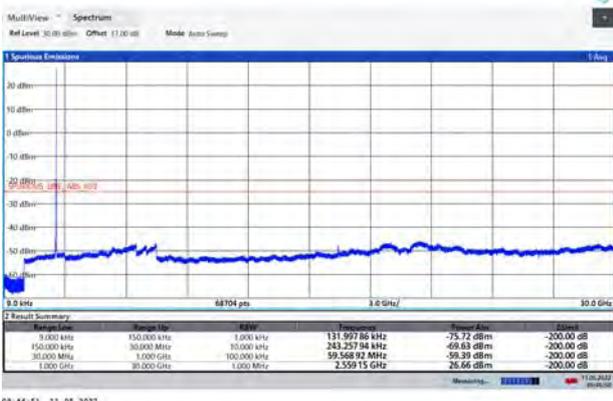
CA_7C QPSK 20MHz+10MHz CH- High 9kHz~30GHz



CA_7C QPSK 20MHz+20MHz CH- High 9kHz~30GHz



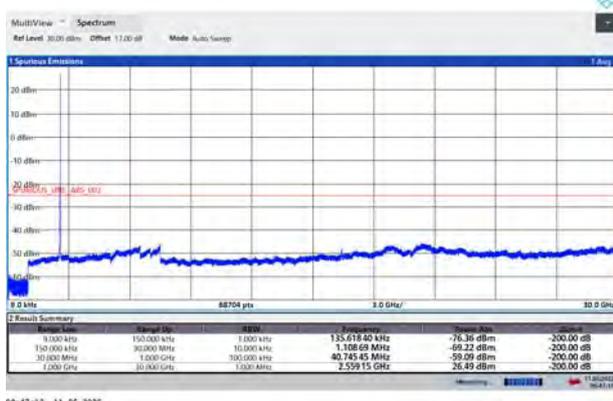
CA_7C 16QAM 20MHz+5MHz CH- High 9kHz~30GHz



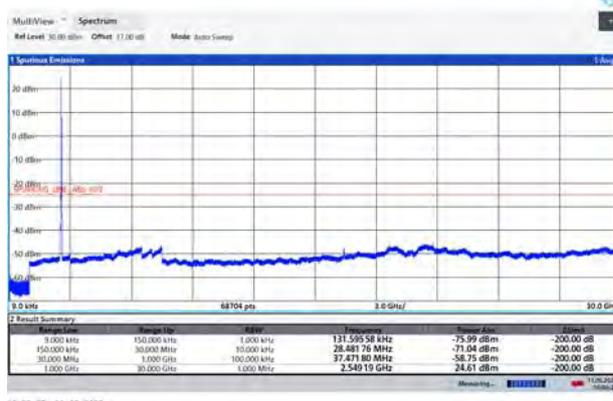
CA_7C 16QAM 20MHz+20MHz CH- High 9kHz~30GHz



CA_7C 64QAM 20MHz+5MHz CH- High 9kHz~30GHz

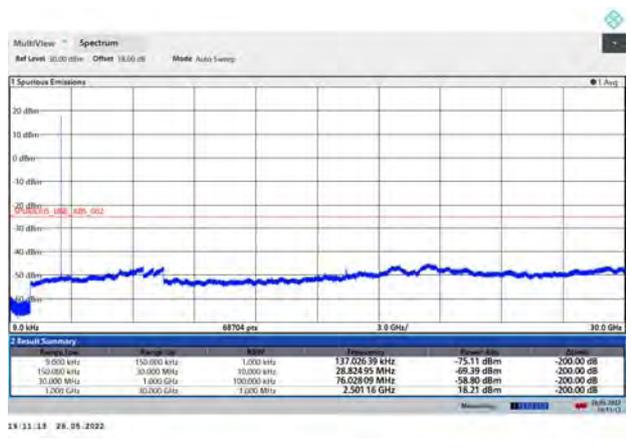


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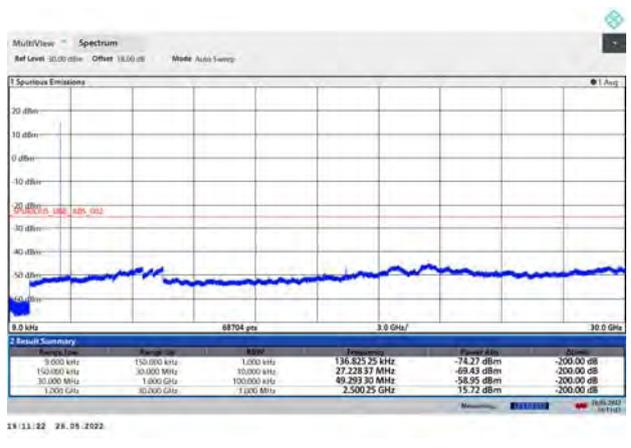




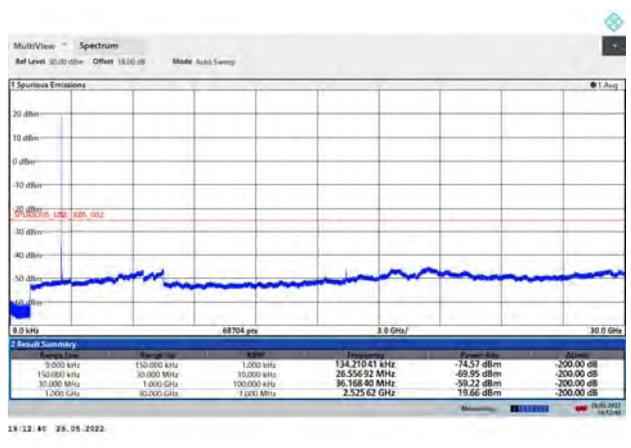
NR n7 P1/2 BPSK 30MHz CH-Low 9kHz~30GHz



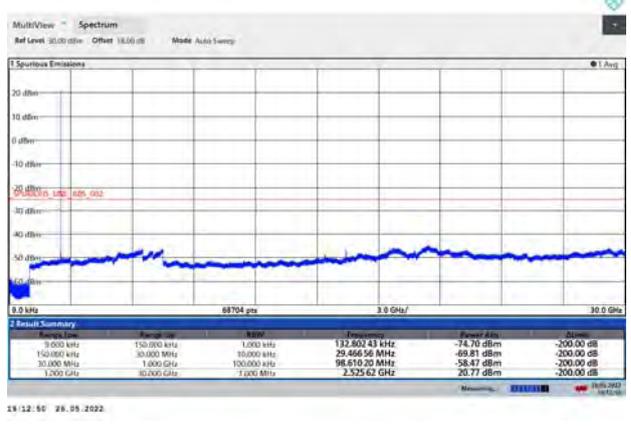
NR n7 QPSK 30MHz CH-Low 9kHz~30GHz



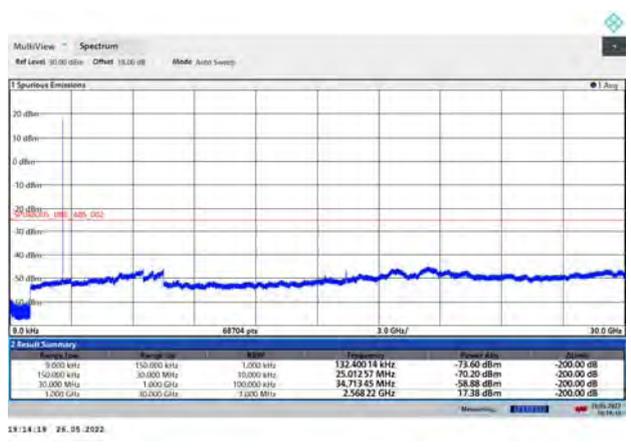
NR n7 P1/2 BPSK 30MHz CH-Middle 9kHz~30GHz



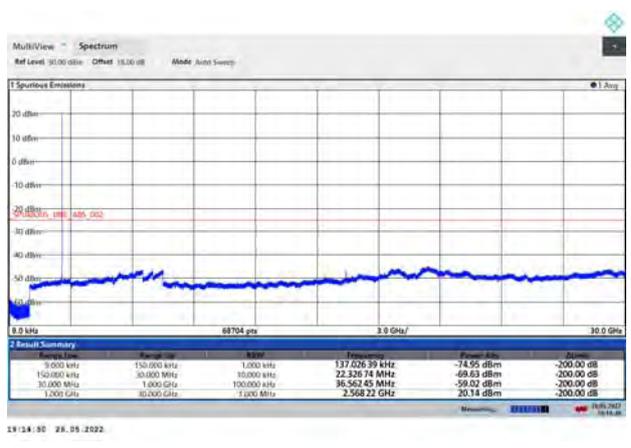
NR n7 QPSK 30MHz CH-Middle 9kHz~30GHz



NR n7 P1/2 BPSK 30MHz CH-High 9kHz~30GHz

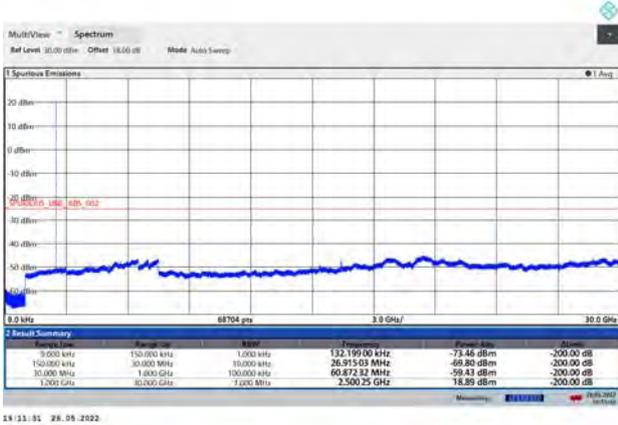


NR n7 QPSK 30MHz CH-High 9kHz~30GHz

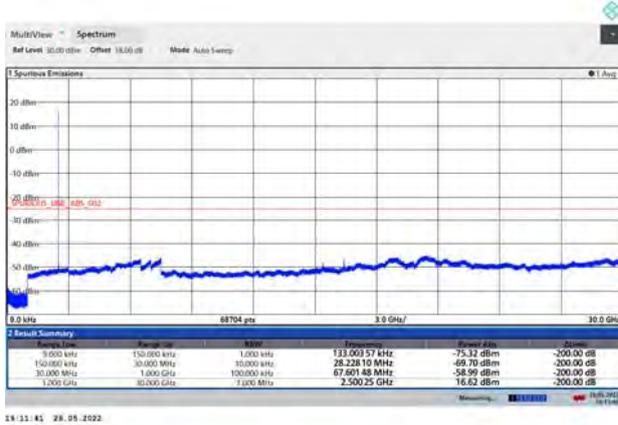




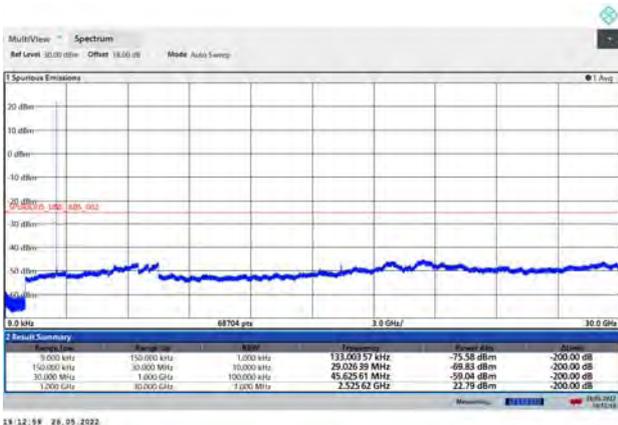
NR n7 16QAM 30MHz CH-Low 9kHz~30GHz



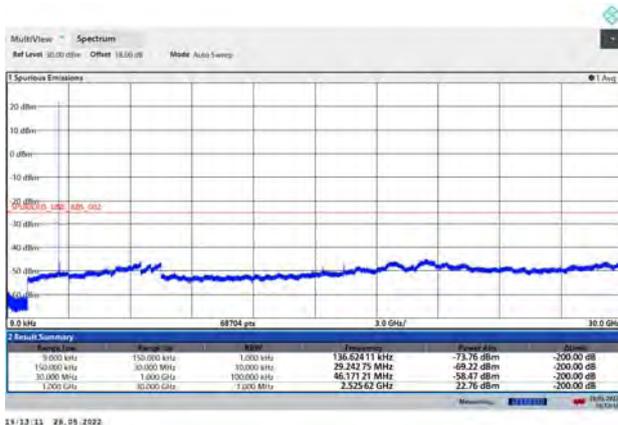
NR n7 64QAM 30MHz CH-Low 9kHz~30GHz



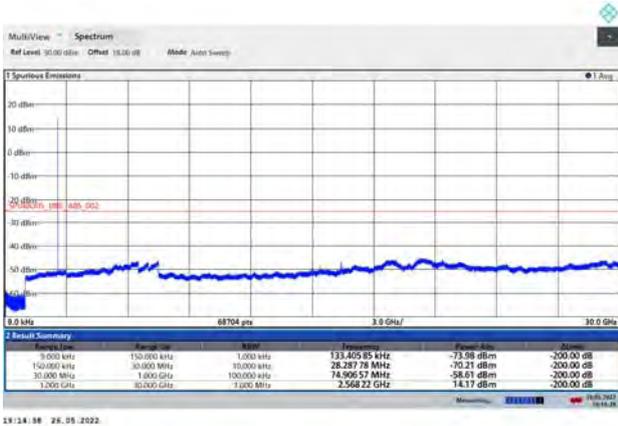
NR n7 16QAM 30MHz CH-Middle 9kHz~30GHz



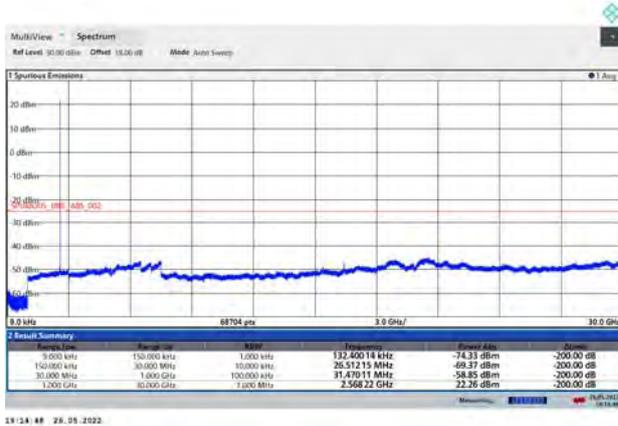
NR n7 64QAM 30MHz CH-Middle 9kHz~30GHz



NR n7 16QAM 30MHz CH-High 9kHz~30GHz

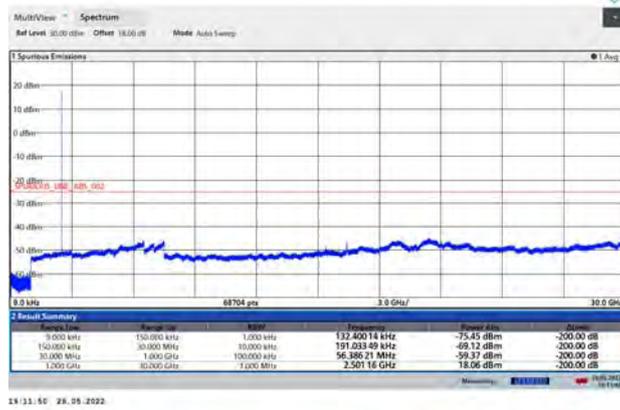


NR n7 64QAM 30MHz CH-High 9kHz~30GHz

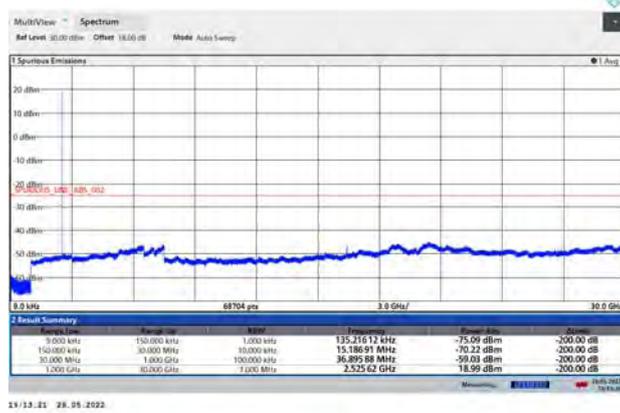




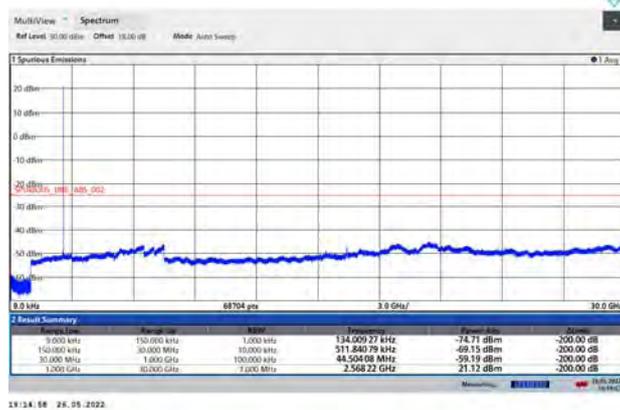
NR n7 256QAM 30MHz CH-Low 9kHz~30GHz



NR n7 256QAM 30MHz CH-Middle 9kHz~30GHz

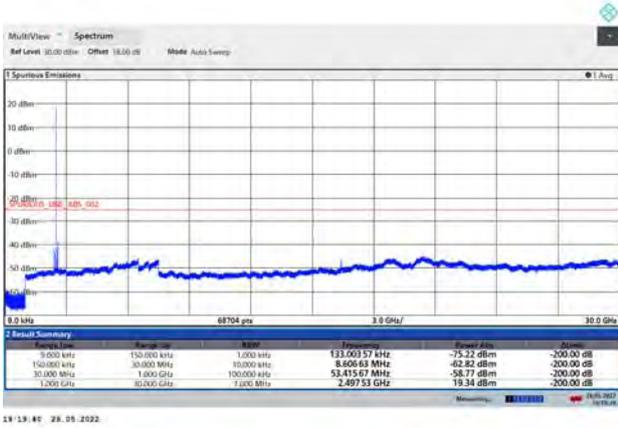


NR n7 256QAM 30MHz CH-High 9kHz~30GHz

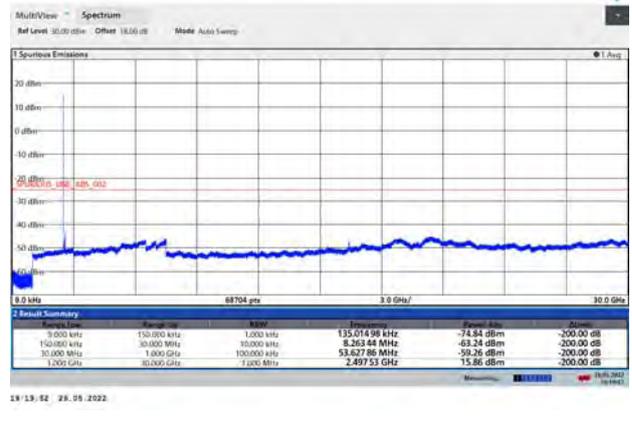




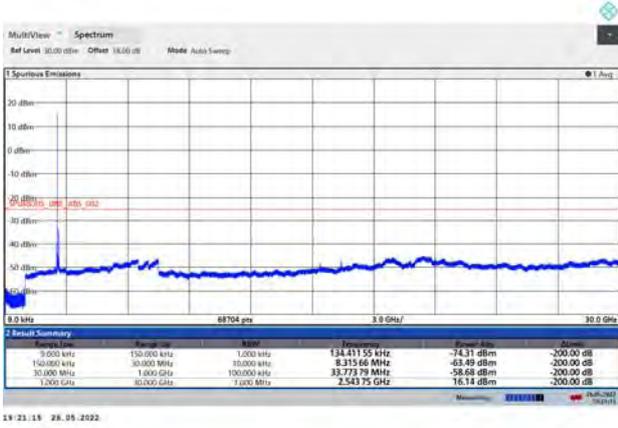
NR n41 P1/2 BPSK 30MHz CH-Low 9kHz~30GHz



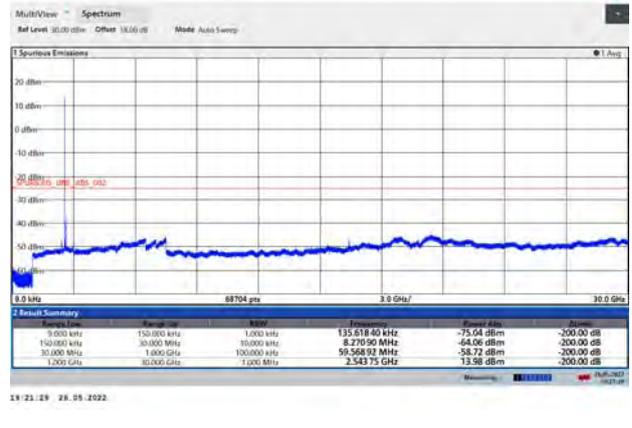
NR n41 QPSK 30MHz CH-Low 9kHz~30GHz



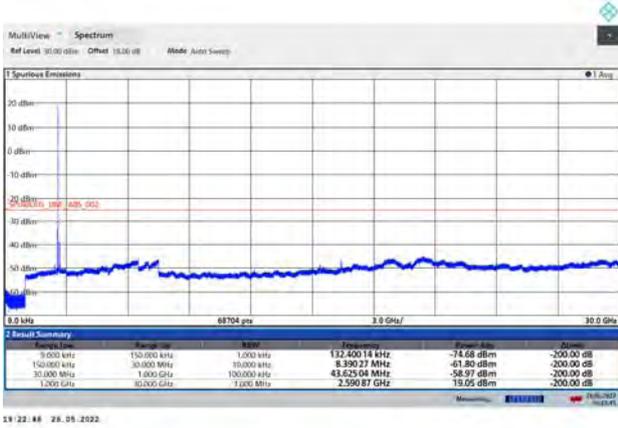
NR n41 P1/2 BPSK 30MHz CH-Middle 9kHz~30GHz



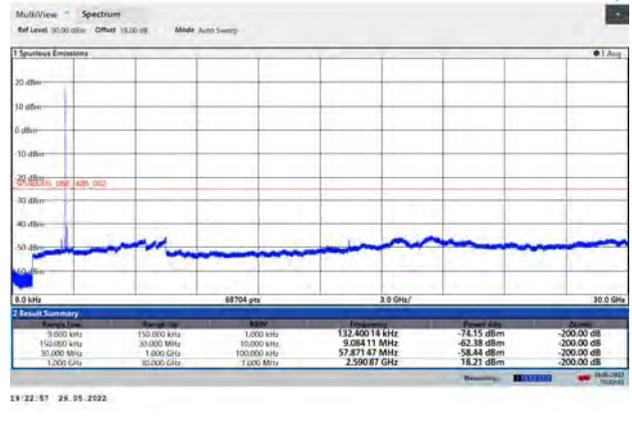
NR n41 QPSK 30MHz CH-Middle 9kHz~30GHz



NR n41 P1/2 BPSK 30MHz CH-High 9kHz~30GHz

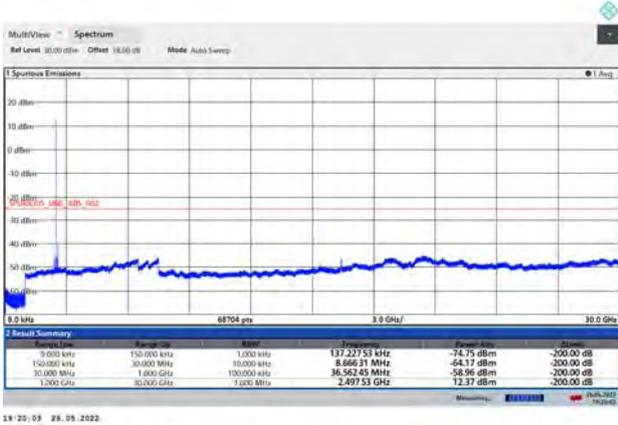


NR n41 QPSK 30MHz CH-High 9kHz~30GHz

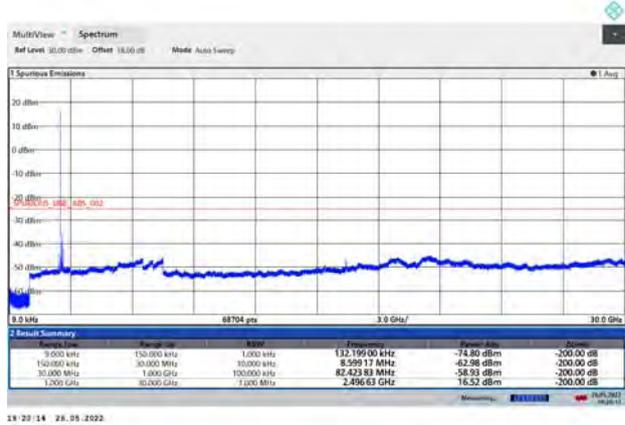




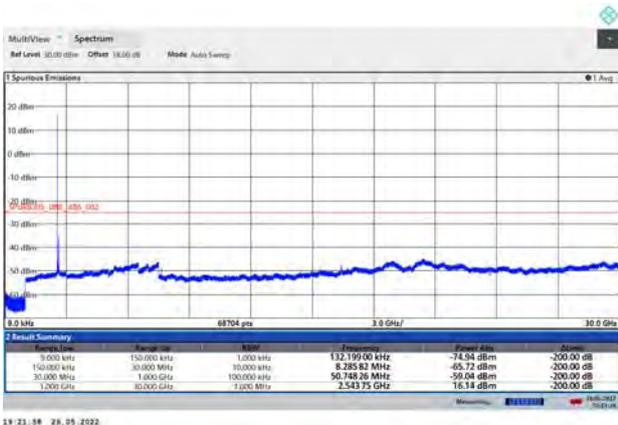
NR n41 16QAM 30MHz CH-Low 9kHz~30GHz



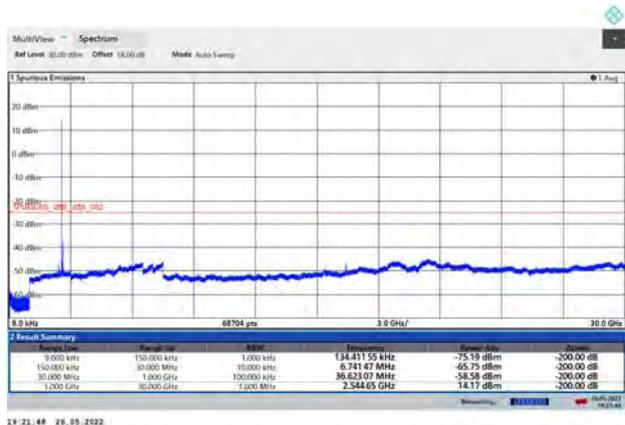
NR n41 64QAM 30MHz CH-Low 9kHz~30GHz



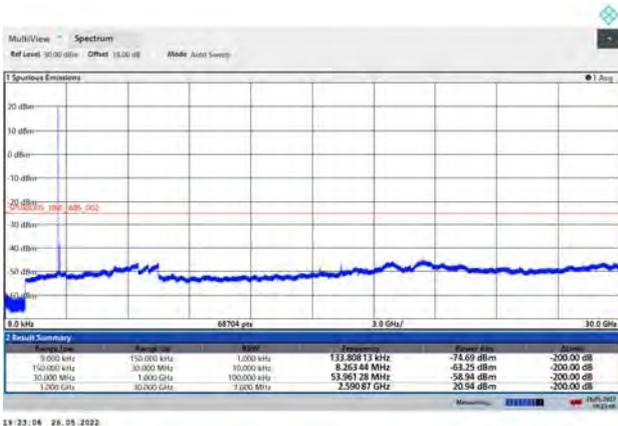
NR n41 16QAM 30MHz CH-Middle 9kHz~30GHz



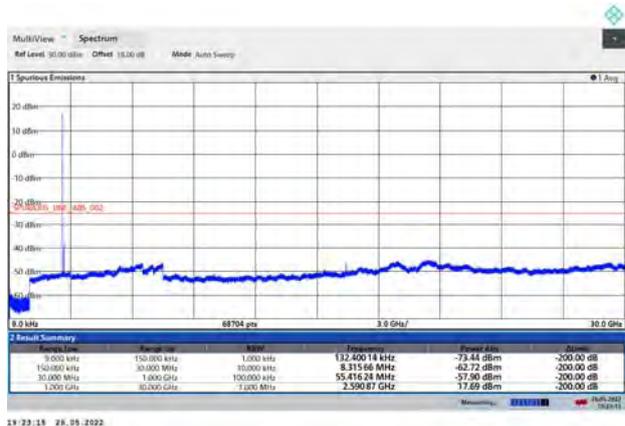
NR n41 64QAM 30MHz CH-Middle 9kHz~30GHz



NR n41 16QAM 30MHz CH-High 9kHz~30GHz

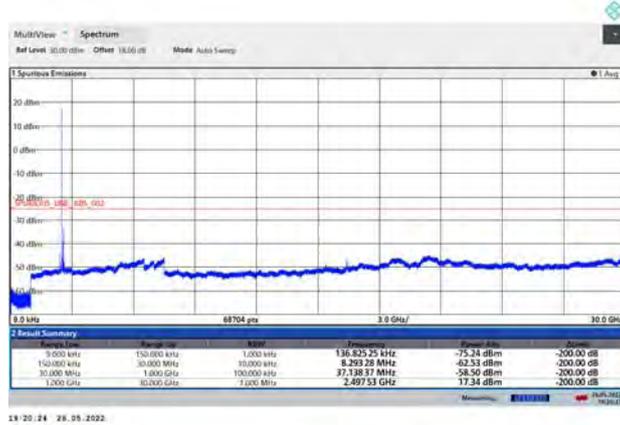


NR n41 64QAM 30MHz CH-High 9kHz~30GHz

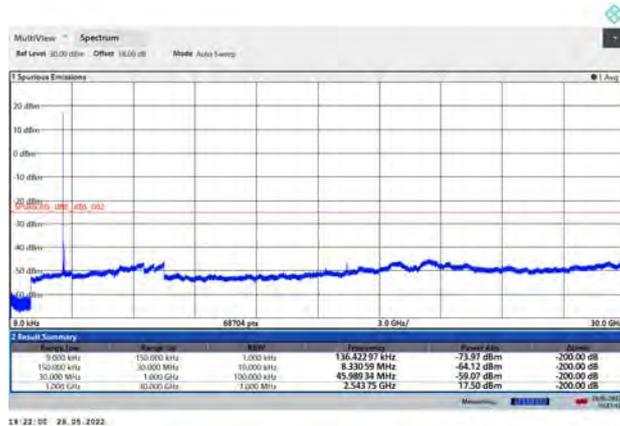




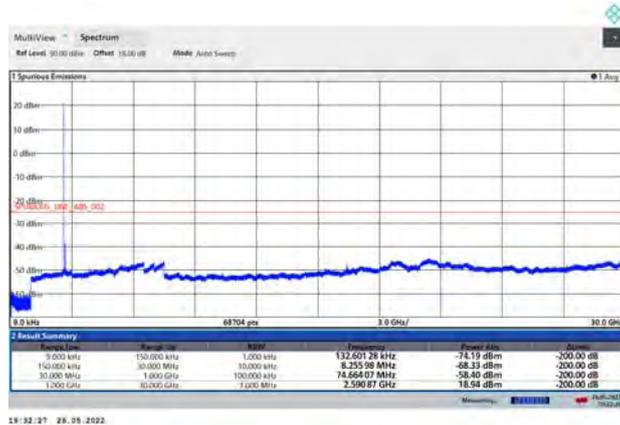
NR n41 256QAM 30MHz CH-Low 9kHz~30GHz



NR n41 256QAM 30MHz CH-Middle 9kHz~30GHz



NR n41 256QAM 30MHz CH-High 9kHz~30GHz

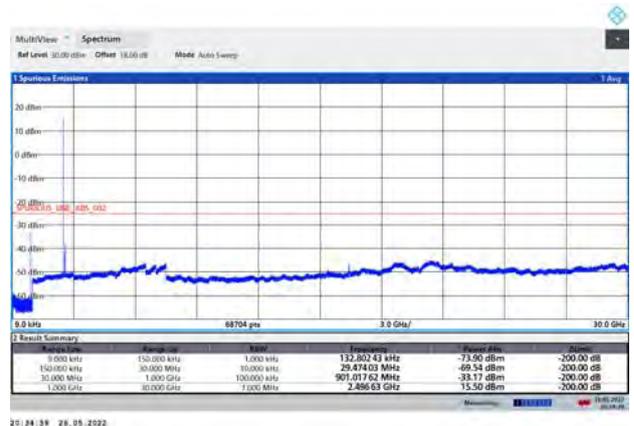




DC_28A(subset 2)-n41A P1/2 BPSK 30MHz
CH-Low 9kHz~30GHz



DC_28A(subset 2)-n41A QPSK 30MHz CH-Low
9kHz~30GHz



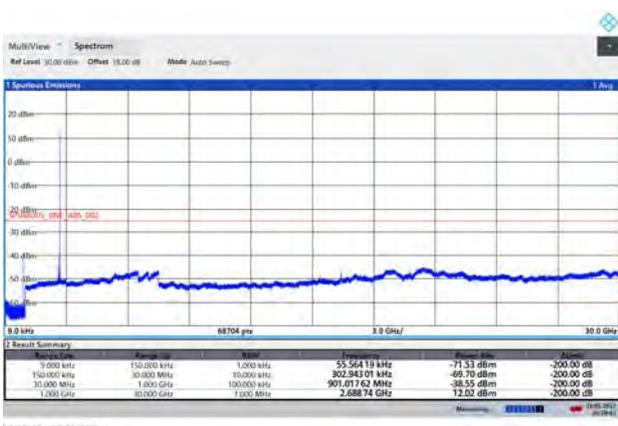
DC_28A(subset 2)-n41A P1/2 BPSK 30MHz
CH-Middle 9kHz~30GHz



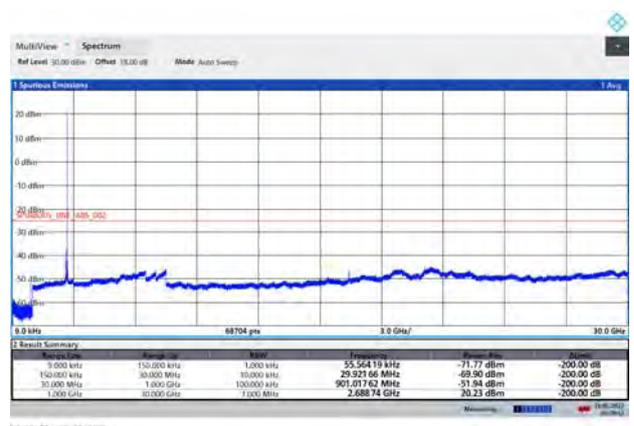
DC_28A(subset 2)-n41A QPSK 30MHz
CH-Middle 9kHz~30GHz



DC_28A(subset 2)-n41A P1/2 BPSK 30MHz
CH-High 9kHz~30GHz

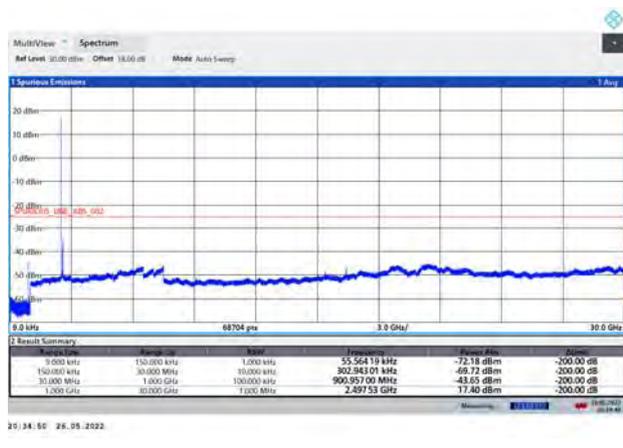


DC_28A(subset 2)-n41A QPSK 30MHz CH-High
9kHz~30GHz

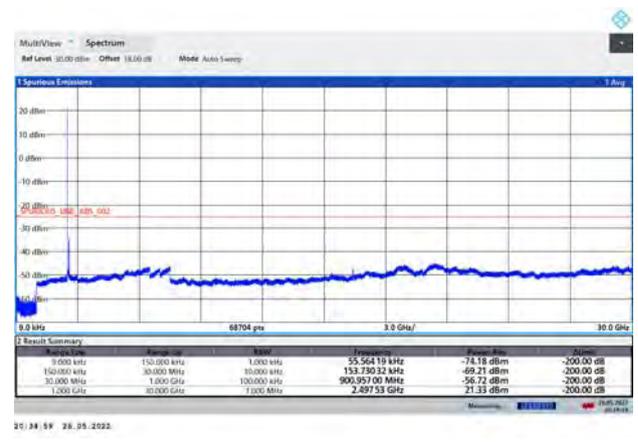




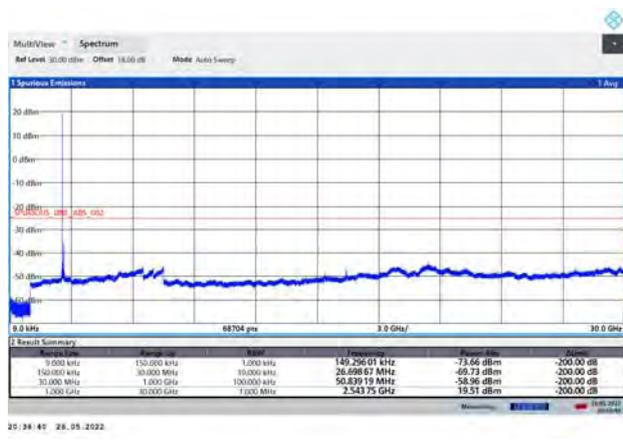
DC_28A(subset 2)-n41A 16QAM 30MHz CH-Low 9kHz~30GHz



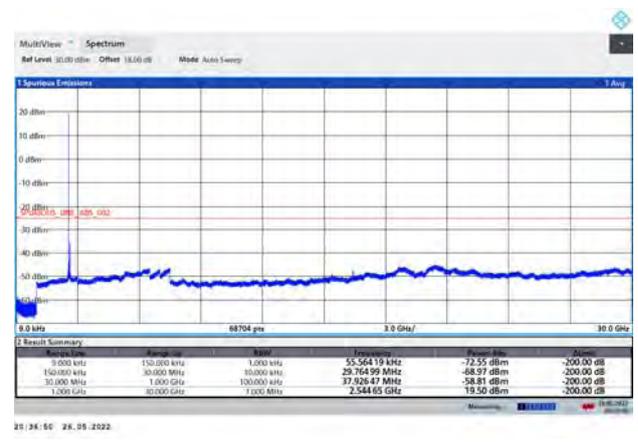
DC_28A(subset 2)-n41A 64QAM 30MHz CH-Low 9kHz~30GHz



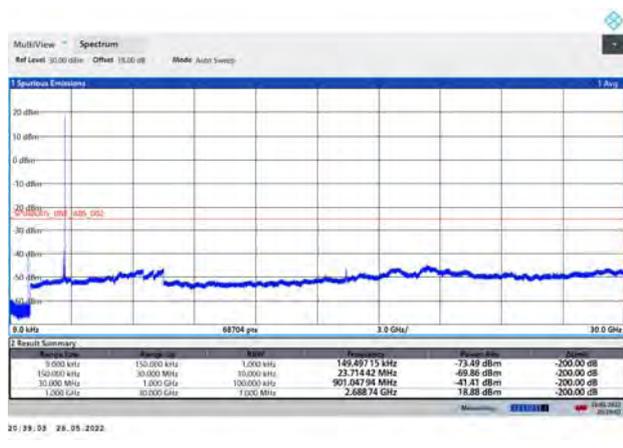
DC_28A(subset 2)-n41A 16QAM 30MHz CH-Middle 9kHz~30GHz



DC_28A(subset 2)-n41A 64QAM 30MHz CH-Middle 9kHz~30GHz



DC_28A(subset 2)-n41A 16QAM 30MHz CH-High 9kHz~30GHz

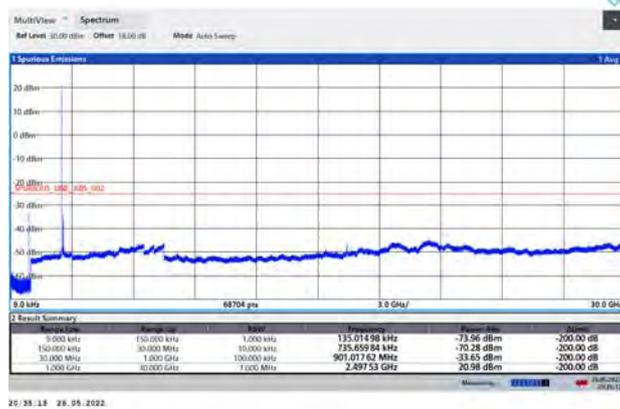


DC_28A(subset 2)-n41A 64QAM 30MHz CH-High 9kHz~30GHz

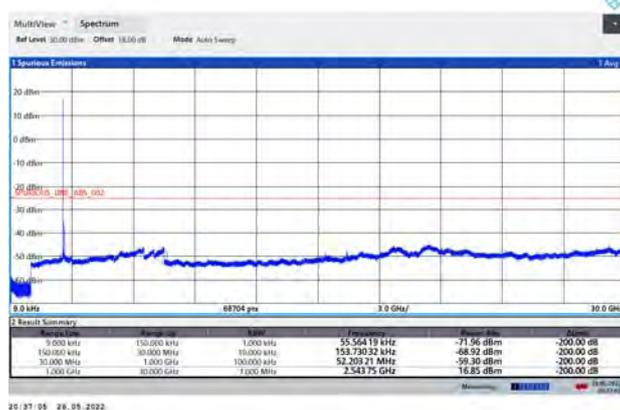




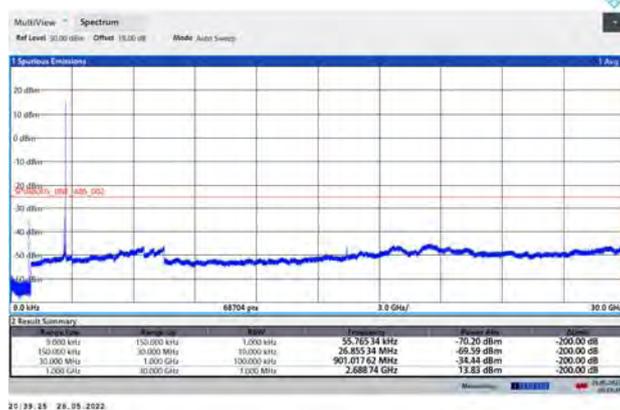
DC_28A(subset 2)-n41A 256QAM 30MHz CH-Low 9kHz~30GHz



DC_28A(subset 2)-n41A 256QAM 30MHz CH-Middle 9kHz~30GHz



DC_28A(subset 2)-n41A 256QAM 30MHz CH-High 9kHz~30GHz





NR n66 P1/2 BPSK 30MHz CH-Low 9kHz~30GHz

NR n66 QPSK 30MHz CH-Low 9kHz~30GHz



NR n66 P1/2 BPSK 30MHz CH-Middle 9kHz~30GHz

NR n66 QPSK 30MHz CH-Middle 9kHz~30GHz



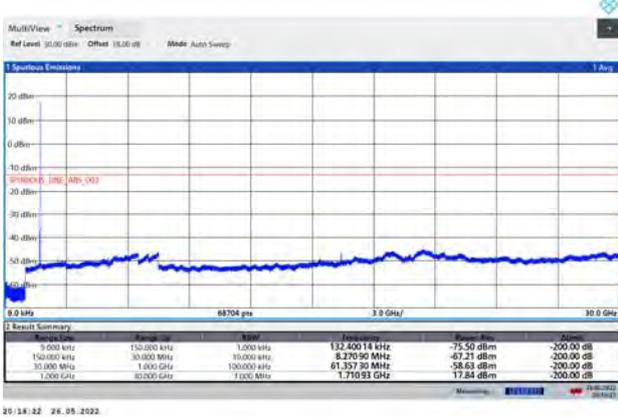
NR n66 P1/2 BPSK 30MHz CH-High 9kHz~30GHz

NR n66 QPSK 30MHz CH-High 9kHz~30GHz

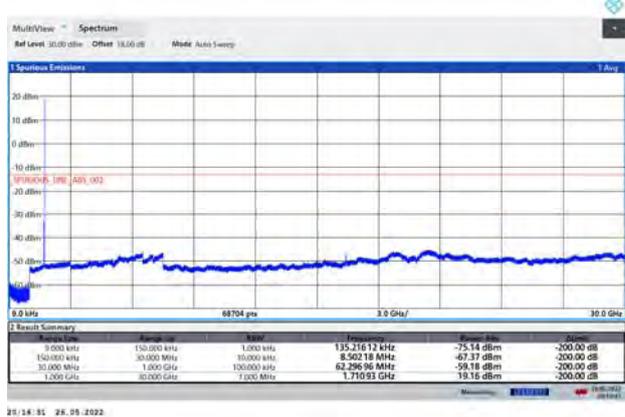




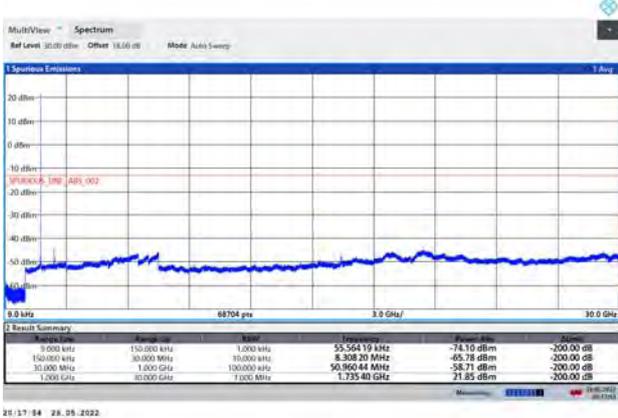
NR n66 16QAM 30MHz CH-Low 9kHz~30GHz



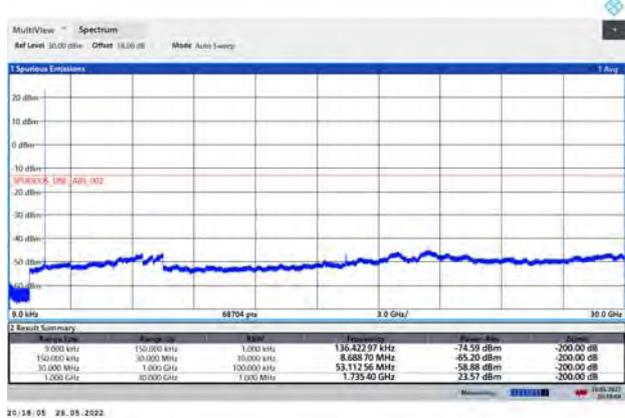
NR n66 64QAM 30MHz CH-Low 9kHz~30GHz



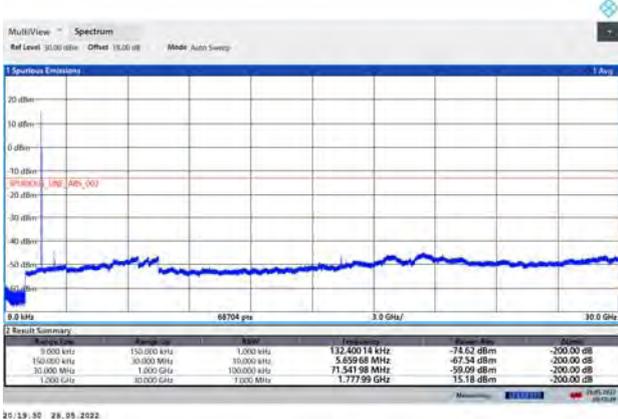
NR n66 16QAM 30MHz CH-Middle 9kHz~30GHz



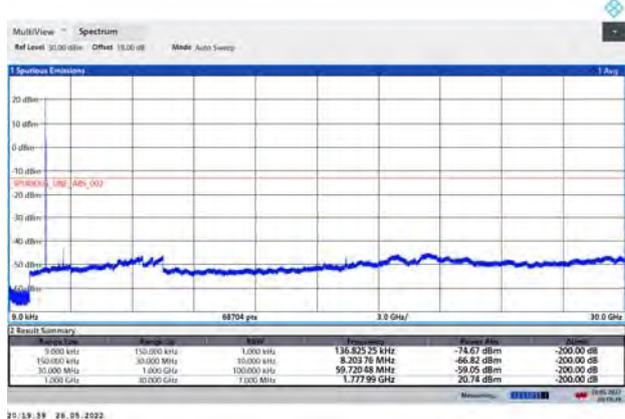
NR n66 64QAM 30MHz CH-Middle 9kHz~30GHz



NR n66 16QAM 30MHz CH-High 9kHz~30GHz



NR n66 64QAM 30MHz CH-High 9kHz~30GHz





NR n66 256QAM 30MHz CH-Low 9kHz~30GHz



NR n66 256QAM 30MHz CH-Middle 9kHz~30GHz



NR n66 256QAM 30MHz CH-High 9kHz~30GHz



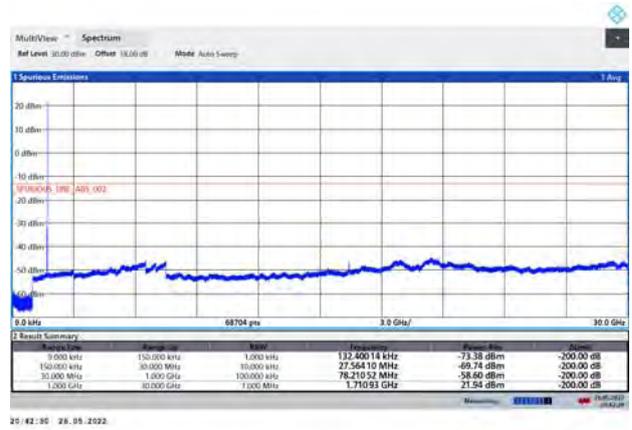


DC_5A-n66A P1/2 BPSK 30MHz CH-Low 9kHz~30GHz



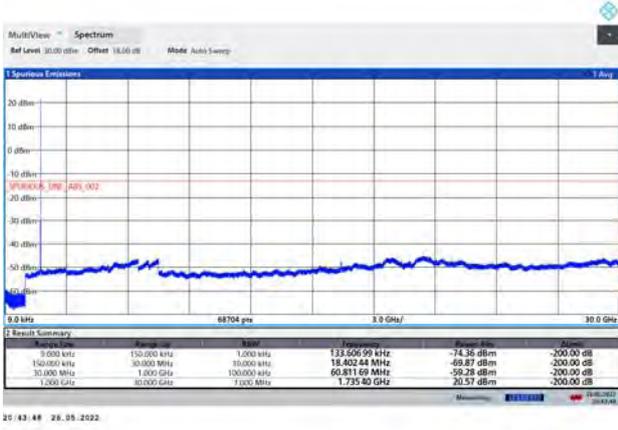
20:42:18 28.05.2022

DC_5A-n66A QPSK 30MHz CH-Low 9kHz~30GHz



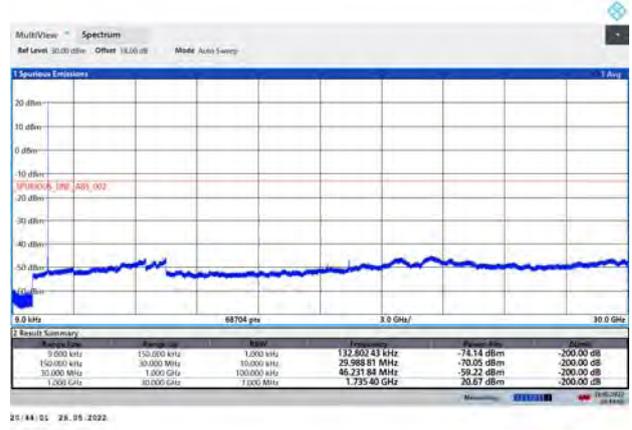
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DC_5A-n66A P1/2 BPSK 30MHz CH-Middle 9kHz~30GHz



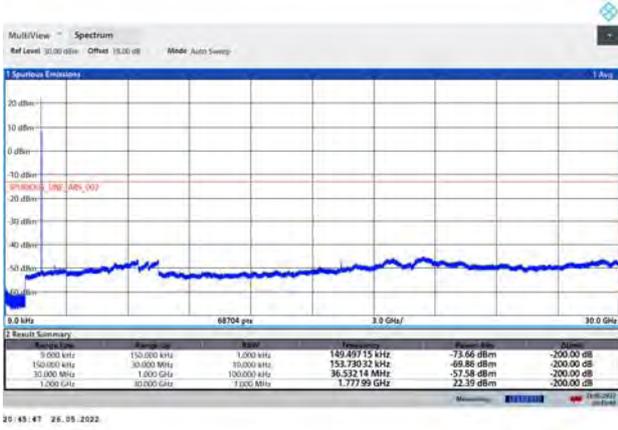
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DC_5A-n66A QPSK 30MHz CH-Middle 9kHz~30GHz



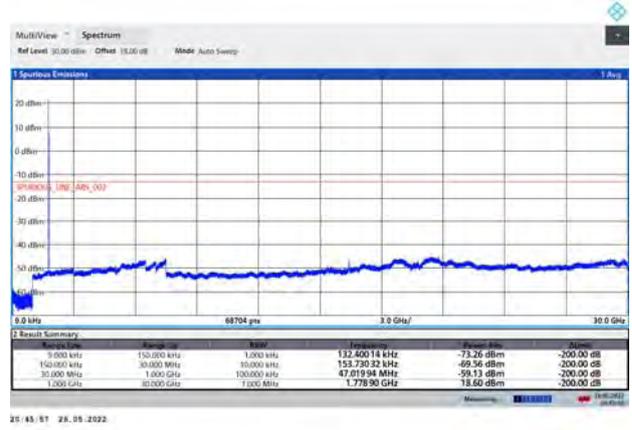
20:44:51 28.05.2022

DC_5A-n66A P1/2 BPSK 30MHz CH-High 9kHz~30GHz



20:45:47 28.05.2022

DC_5A-n66A QPSK 30MHz CH-High 9kHz~30GHz



20:45:51 28.05.2022

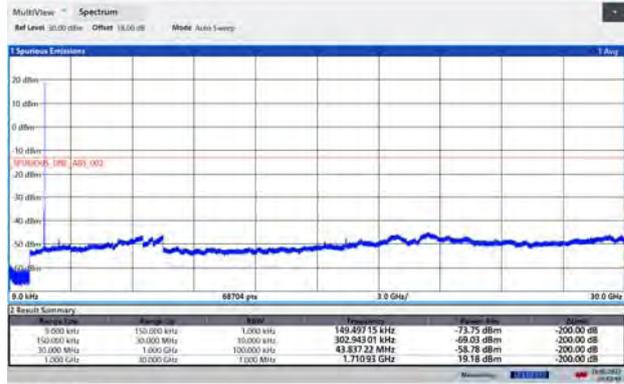


DC_5A-n66A 16QAM 30MHz CH-Low
9kHz~30GHz



20:42:41 28.05.2022

DC_5A-n66A 64QAM 30MHz CH-Low
9kHz~30GHz



20:42:50 28.05.2022

DC_5A-n66A 16QAM 30MHz CH-Middle
9kHz~30GHz



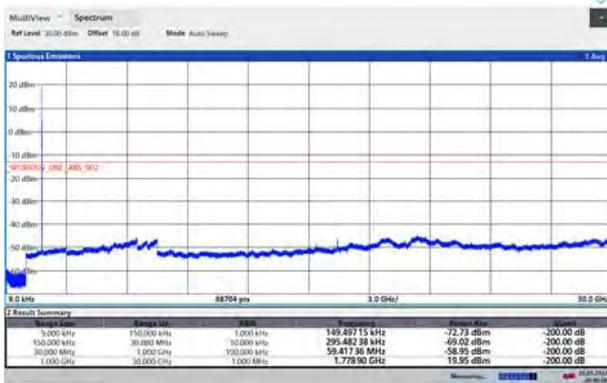
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DC_5A-n66A 64QAM 30MHz CH-Middle
9kHz~30GHz



20:44:21 28.05.2022

DC_5A-n66A 16QAM 30MHz CH-High
9kHz~30GHz



20:48:07 28.05.2022

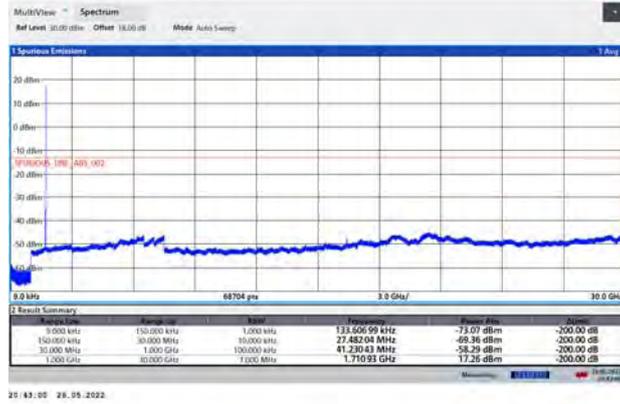
DC_5A-n66A 64QAM 30MHz CH-High
9kHz~30GHz



20:48:19 28.05.2022

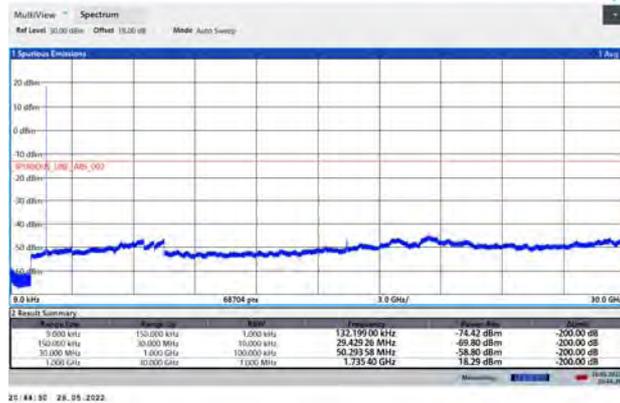


DC_5A-n66A 256QAM 30MHz CH-Low 9kHz~30GHz



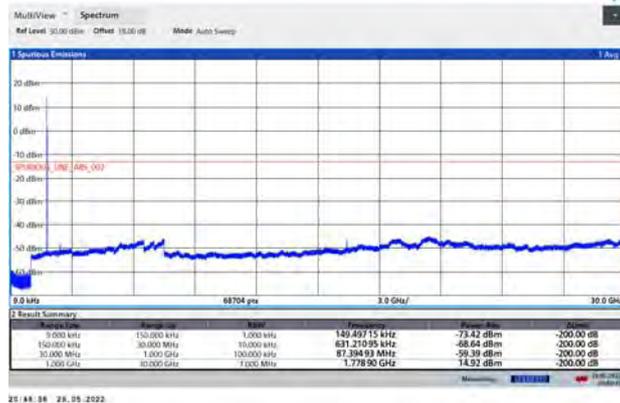
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DC_5A-n66A 256QAM 30MHz CH-Middle 9kHz~30GHz



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DC_5A-n66A 256QAM 30MHz CH-High 9kHz~30GHz



20:44:58 28.05.2022



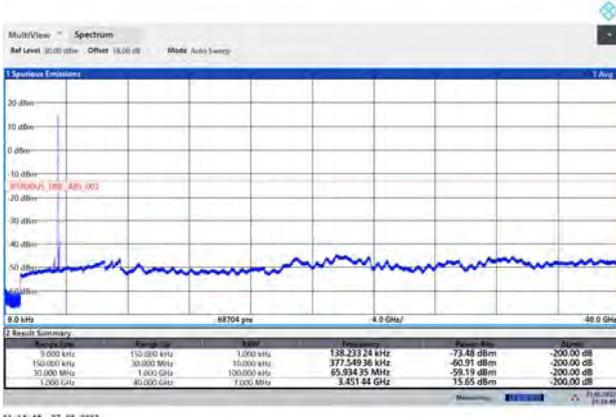
NR n77 subset1 P1/2 BPSK 30MHz CH-Middle 9kHz~40GHz



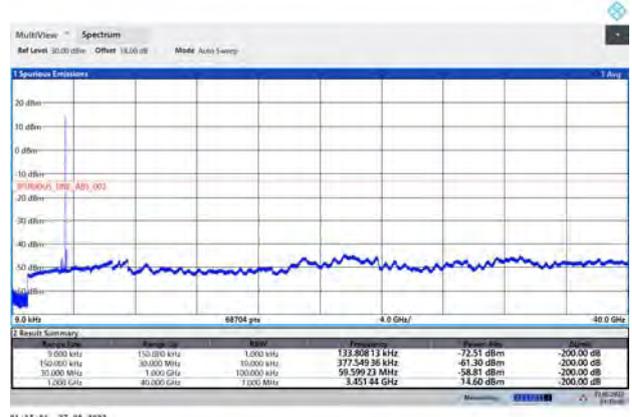
NR n77 subset1 QPSK 30MHz CH-Middle 9kHz~40GHz



NR n77 subset1 16QAM 30MHz CH-Middle 9kHz~40GHz



NR n77 subset1 64QAM 30MHz CH-Middle 9kHz~40GHz

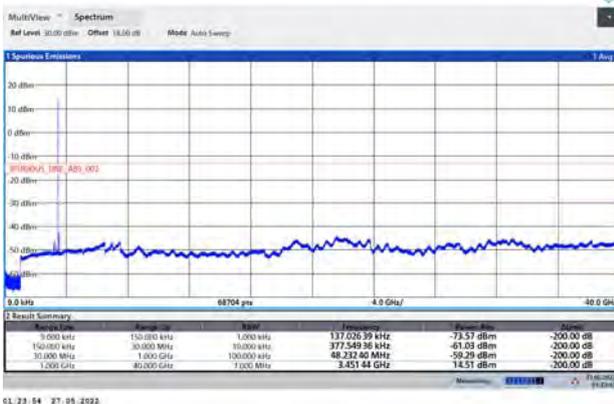


NR n77 subset1 256QAM 30MHz CH-Middle 9kHz~40GHz



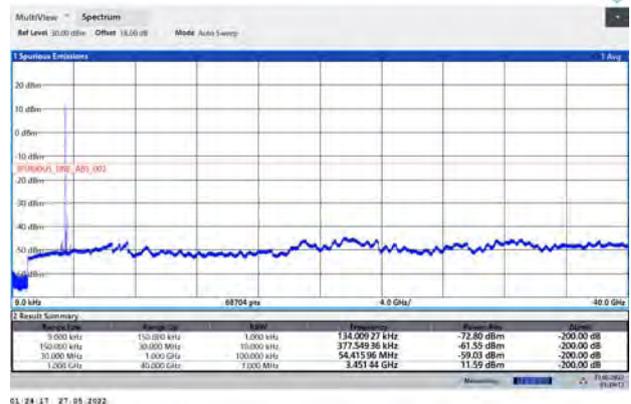


DC_5A-n77(subset 1)A P1/2 BPSK 30MHz CH-Middle 9kHz~40GHz



01:23:54 27.05.2022

DC_5A-n77(subset 1)A QPSK 30MHz CH-Middle 9kHz~40GHz



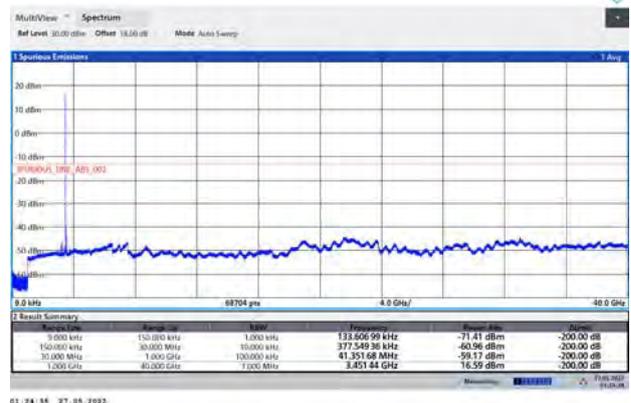
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DC_5A-n77(subset 1)A 16QAM 30MHz CH-Middle 9kHz~40GHz



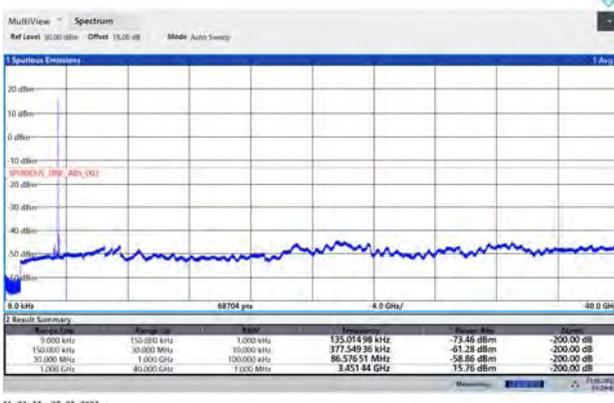
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DC_5A-n77(subset 1)A 64QAM 30MHz CH-Middle 9kHz~40GHz



01:24:36 27.05.2022

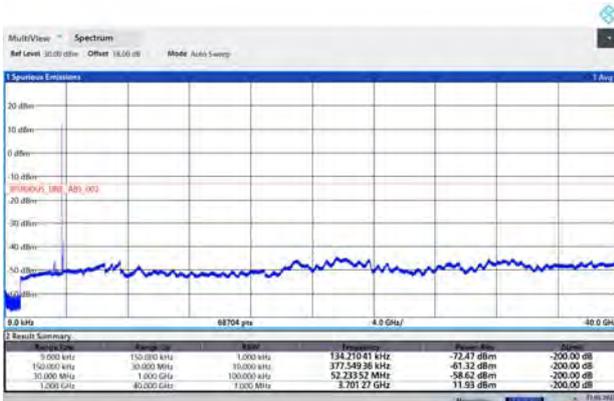
DC_5A-n77(subset 1)A 256QAM 30MHz CH-Middle 9kHz~40GHz



01:24:44 27.05.2022



NR n77 subset2 P1/2 BPSK 30MHz CH-Low 9kHz~40GHz



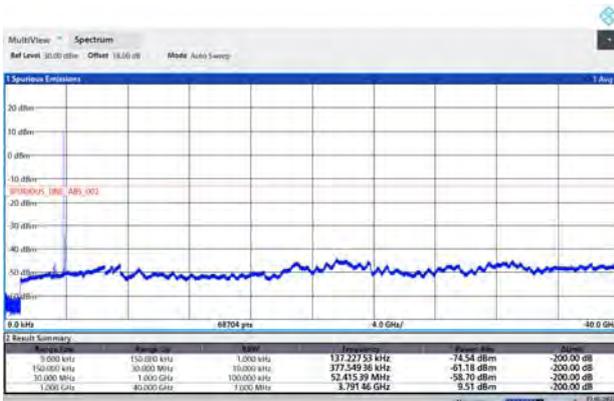
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NR n77 subset2 QPSK 30MHz CH-Low 9kHz~40GHz



01:14:41 27.05.2022

NR n77 subset2 P1/2 BPSK 30MHz CH-Middle 9kHz~40GHz



01:18:07 27.05.2022

NR n77 subset2 QPSK 30MHz CH-Middle 9kHz~40GHz



01:18:18 27.05.2022

NR n77 subset2 P1/2 BPSK 30MHz CH-High 9kHz~40GHz



01:19:40 27.05.2022

NR n77 subset2 QPSK 30MHz CH-High 9kHz~40GHz



01:19:49 27.05.2022



NR n77 subset2 16QAM 30MHz CH-Low 9kHz~40GHz



01:14:58 27.05.2022

NR n77 subset2 64QAM 30MHz CH-Low 9kHz~40GHz



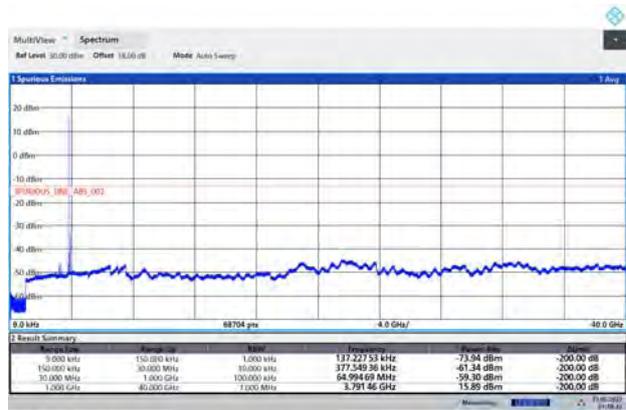
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NR n77 subset2 16QAM 30MHz CH-Middle 9kHz~40GHz



01:18:25 27.05.2022

NR n77 subset2 64QAM 30MHz CH-Middle 9kHz~40GHz



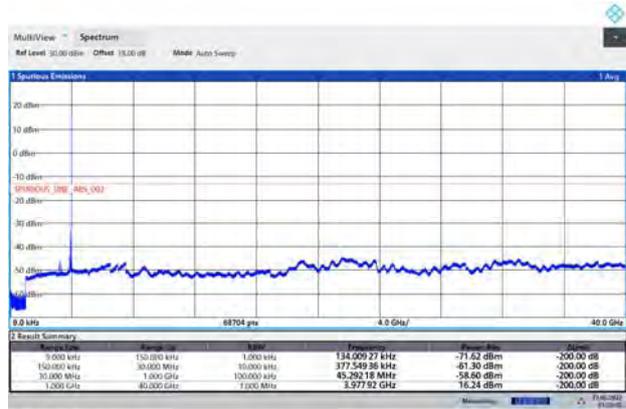
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NR n77 subset2 16QAM 30MHz CH-High 9kHz~40GHz



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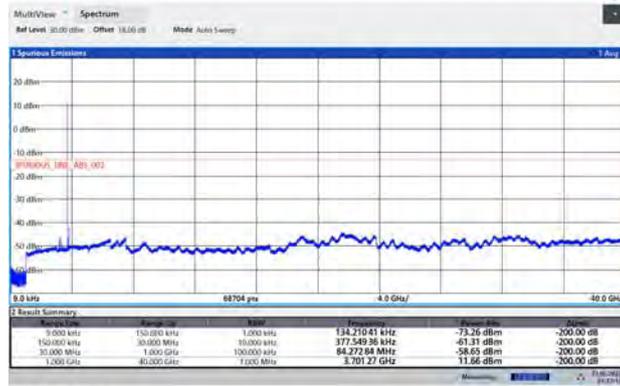
NR n77 subset2 64QAM 30MHz CH-High 9kHz~40GHz



01:20:06 27.05.2022



NR n77 subset2 256QAM 30MHz CH-Low 9kHz~40GHz



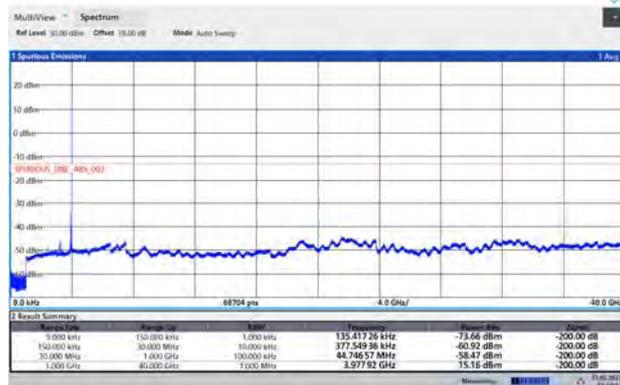
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NR n77 subset2 256QAM 30MHz CH-Middle 9kHz~40GHz



01.18.42 27.05.2022

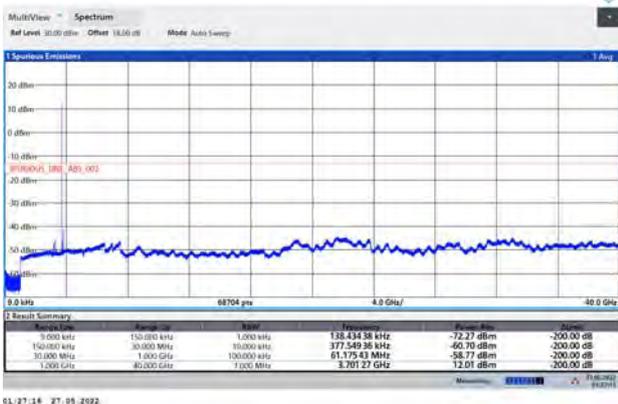
NR n77 subset2 256QAM 30MHz CH-High 9kHz~40GHz



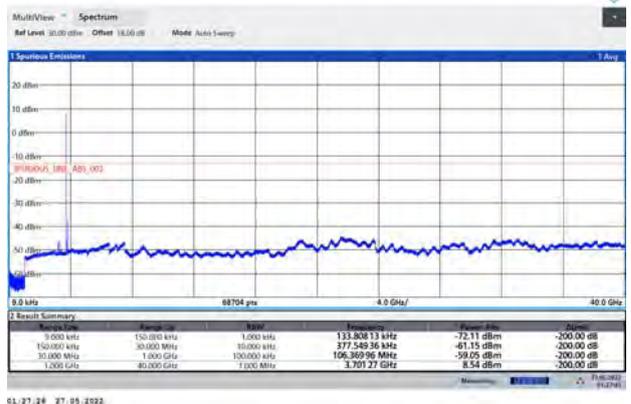
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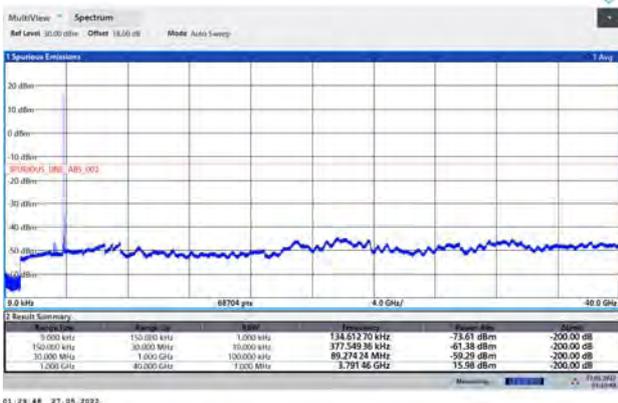
DC_12A-n77(subset 2)A P1/2 BPSK 30MHz CH-Low 9kHz~40GHz



DC_12A-n77(subset 2)A QPSK 30MHz CH-Low 9kHz~40GHz



DC_12A-n77(subset 2)A P1/2 BPSK 30MHz CH-Middle 9kHz~40GHz



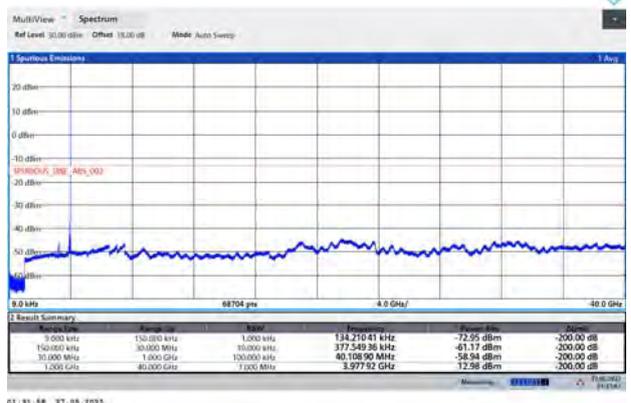
DC_12A-n77(subset 2)A QPSK 30MHz CH-Middle 9kHz~40GHz



DC_12A-n77(subset 2)A P1/2 BPSK 30MHz CH-High 9kHz~40GHz



DC_12A-n77(subset 2)A QPSK 30MHz CH-High 9kHz~40GHz



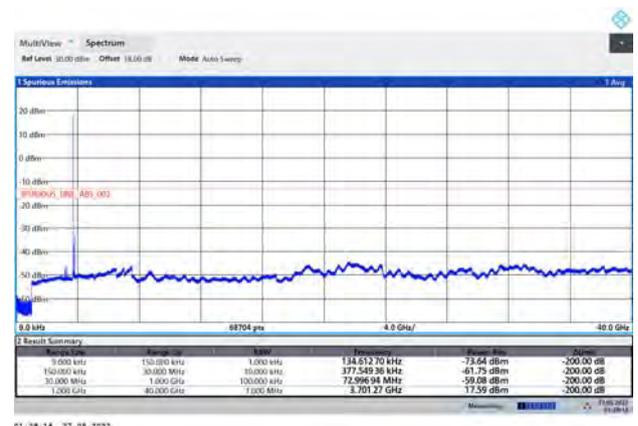


DC_12A-n77(subset 2)A 16QAM 30MHz CH-Low 9kHz~40GHz



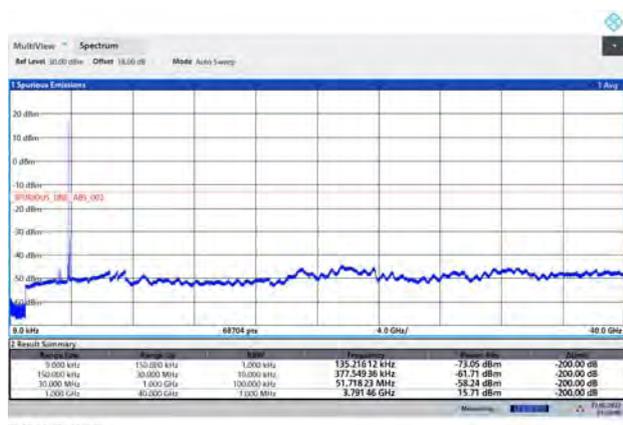
01:27:58 27.05.2022

DC_12A-n77(subset 2)A 64QAM 30MHz CH-Low 9kHz~40GHz



01:28:14 27.05.2022

DC_12A-n77(subset 2)A 16QAM 30MHz CH-Middle 9kHz~40GHz



01:30:08 27.05.2022

DC_12A-n77(subset 2)A 64QAM 30MHz CH-Middle 9kHz~40GHz



01:30:11 27.05.2022

DC_12A-n77(subset 2)A 16QAM 30MHz CH-High 9kHz~40GHz



01:32:08 27.05.2022

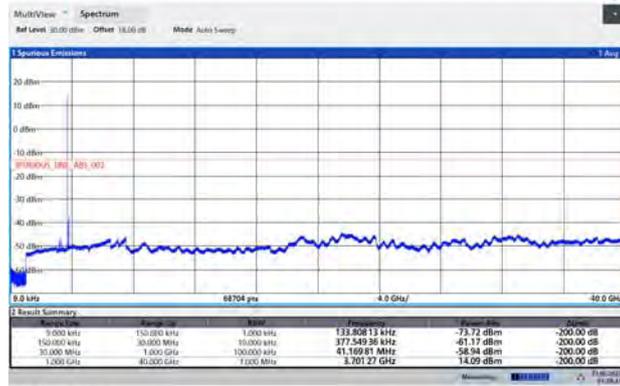
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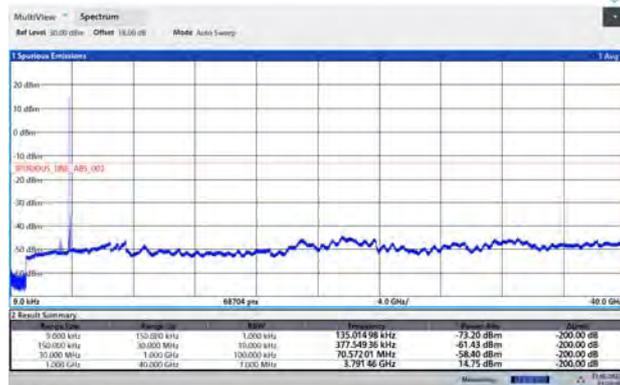


DC_12A-n77(subset 2)A 256QAM 30MHz CH-Low 9kHz~40GHz



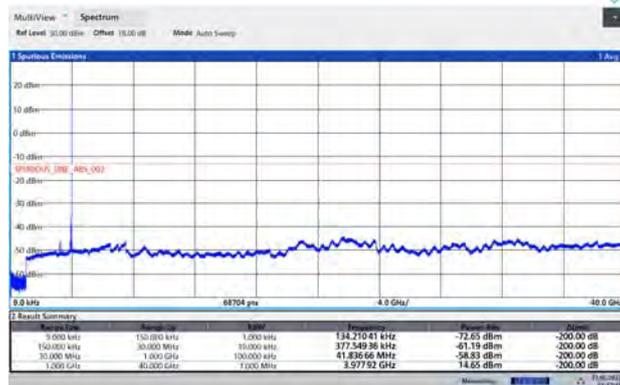
01:28:24 27.05.2022

DC_12A-n77(subset 2)A 256QAM 30MHz CH-Middle 9kHz~40GHz



01:35:50 27.05.2022

DC_12A-n77(subset 2)A 256QAM 30MHz CH-High 9kHz~40GHz



01:32:50 27.05.2022



6.7 Radiates Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

Main Antenna

WCDMA Band IV CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.20	-65.53	2.70	12.70	Horizontal	-55.53	-13.00	42.53	90
3	5197.80	-64.71	3.20	12.50	Horizontal	-55.41	-13.00	42.41	45
4	6930.40	-60.79	4.20	11.80	Horizontal	-53.19	-13.00	40.19	225
5	8663.00	-57.04	4.40	12.50	Horizontal	-48.94	-13.00	35.94	90
6	10395.60	-51.08	4.70	11.30	Horizontal	-44.48	-13.00	31.48	45
7	12128.20	-54.52	5.20	13.80	Horizontal	-45.92	-13.00	32.92	135
8	13860.80	-47.35	5.70	11.30	Horizontal	-41.75	-13.00	28.75	180
9	15593.40	-57.12	6.10	16.80	Horizontal	-46.42	-13.00	33.42	90
10	17326.00	-50.31	6.10	14.20	Horizontal	-42.21	-13.00	29.21	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.10	-66.47	2.70	12.70	Vertical	-56.47	-13.00	43.47	135
3	5197.50	-64.38	3.20	12.50	Vertical	-55.08	-13.00	42.08	225
4	6930.00	-63.77	4.20	11.80	Vertical	-56.17	-13.00	43.17	45
5	8662.50	-62.28	4.40	12.50	Vertical	-54.18	-13.00	41.18	0
6	10395.00	-55.05	4.70	11.30	Vertical	-48.45	-13.00	35.45	45
7	12127.50	-56.27	5.20	13.80	Vertical	-47.67	-13.00	34.67	135
8	13860.00	-49.32	5.70	11.30	Vertical	-43.72	-13.00	30.72	225
9	15592.50	-54.49	6.10	16.80	Vertical	-43.79	-13.00	30.79	90
10	17325.00	-49.80	6.10	14.20	Vertical	-41.70	-13.00	28.70	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.



LTE Band 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.90	-63.02	2.70	12.70	Vertical	-53.02	-13.00	40.02	90
3	5191.10	-52.98	3.20	12.50	Vertical	-43.68	-13.00	30.68	225
4	6930.00	-57.73	4.20	11.80	Vertical	-50.13	-13.00	37.13	45
5	8662.50	-56.62	4.40	12.50	Vertical	-48.52	-13.00	35.52	0
6	10380.00	-53.48	4.70	11.30	Vertical	-46.88	-13.00	33.88	0
7	12110.00	-55.48	5.20	13.80	Vertical	-46.88	-13.00	33.88	45
8	13840.00	-51.35	5.70	11.30	Vertical	-45.75	-13.00	32.75	135
9	15570.00	-56.17	6.10	16.80	Vertical	-45.47	-13.00	32.47	225
10	17300.00	-50.11	6.10	14.20	Vertical	-42.01	-13.00	29.01	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.

LTE Band 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.10	-62.86	2.70	12.70	Vertical	-52.86	-13.00	39.86	315
3	5170.50	-54.95	3.20	12.50	Vertical	-45.65	-13.00	32.65	225
4	6930.00	-57.55	4.20	11.80	Vertical	-49.95	-13.00	36.95	0
5	8662.50	-57.18	4.40	12.50	Vertical	-49.08	-13.00	36.08	45
6	10395.00	-51.70	4.70	11.30	Vertical	-45.10	-13.00	32.10	135
7	12064.80	-50.89	5.20	13.80	Vertical	-42.29	-13.00	29.29	225
8	13860.00	-46.25	5.70	11.30	Vertical	-40.65	-13.00	27.65	45
9	15592.50	-53.15	6.10	16.80	Vertical	-42.45	-13.00	29.45	0
10	17325.00	-48.24	6.10	14.20	Vertical	-40.14	-13.00	27.14	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.



LTE Band 7 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5052.20	-64.65	3.40	12.50	Vertical	-55.55	-25.00	30.55	0
3	7598.40	-56.52	4.40	12.20	Vertical	-48.72	-25.00	23.72	180
4	10104.40	-55.32	4.70	11.30	Vertical	-48.72	-25.00	23.72	270
5	12630.50	-51.86	5.40	13.20	Vertical	-44.06	-25.00	19.06	90
6	15156.60	-51.58	6.10	13.10	Vertical	-44.58	-25.00	19.58	45
7	17745.00	-48.42	6.10	14.20	Vertical	-40.32	-25.00	15.32	315
8	20208.80	--	--	--	--	--	--	--	--
9	22734.90	--	--	--	--	--	--	--	--
10	25261.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 7 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5065.80	-64.82	3.40	12.50	Vertical	-55.72	-25.00	30.72	180
3	7578.00	-56.43	4.40	12.20	Vertical	-48.63	-25.00	23.63	45
4	10130.63	-52.79	4.70	11.30	Vertical	-46.19	-25.00	21.19	90
5	12675.00	-54.39	5.40	13.20	Vertical	-46.59	-25.00	21.59	315
6	15210.00	-48.71	6.10	13.10	Vertical	-41.71	-25.00	16.71	90
7	17745.00	-49.96	6.10	14.20	Vertical	-41.86	-25.00	16.86	225
8	20280.00	--	--	--	--	--	--	--	--
9	22815.00	--	--	--	--	--	--	--	--
10	25350.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.



LTE Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1414.08	-56.41	1.70	8.70	Vertical	-51.56	-13.00	38.56	225
3	2121.00	-49.27	2.10	11.10	Vertical	-42.42	-13.00	29.42	45
4	2827.20	-65.51	2.30	13.10	Vertical	-56.86	-13.00	43.86	180
5	3537.50	-65.39	2.60	12.70	Vertical	-57.44	-13.00	44.44	45
6	4245.00	-64.06	3.30	12.50	Vertical	-57.01	-13.00	44.01	225
7	4952.50	-64.54	3.40	12.50	Vertical	-57.59	-13.00	44.59	90
8	5660.00	-64.85	3.30	12.50	Vertical	-57.80	-13.00	44.80	45
9	6367.50	-63.10	3.80	11.50	Vertical	-57.55	-13.00	44.55	315
10	7075.00	-61.56	4.20	11.80	Vertical	-56.11	-13.00	43.11	90

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.

LTE Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.57	-56.98	1.70	8.70	Vertical	-52.13	-13.00	39.13	135
3	2116.15	-50.05	2.10	11.10	Vertical	-43.20	-13.00	30.20	0
4	2820.00	-66.26	2.30	13.10	Vertical	-57.61	-13.00	44.61	180
5	3525.00	-62.59	2.60	12.70	Vertical	-54.64	-13.00	41.64	45
6	4230.00	-63.73	3.30	12.50	Vertical	-56.68	-13.00	43.68	225
7	4935.00	-64.56	3.40	12.50	Vertical	-57.61	-13.00	44.61	90
8	5640.00	-64.83	3.30	12.50	Vertical	-57.78	-13.00	44.78	45
9	6345.00	-62.00	3.80	11.50	Vertical	-56.45	-13.00	43.45	315
10	7050.00	-60.77	4.20	11.80	Vertical	-55.32	-13.00	42.32	270

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.



LTE Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1406.03	-57.36	1.70	8.70	Vertical	-52.51	-13.00	39.51	315
3	2109.25	-49.41	2.10	11.10	Vertical	-42.56	-13.00	29.56	45
4	2810.00	-65.28	2.30	13.10	Vertical	-56.63	-13.00	43.63	225
5	3512.50	-63.37	2.60	12.70	Vertical	-55.42	-13.00	42.42	45
6	4215.00	-61.25	3.30	12.50	Vertical	-54.20	-13.00	41.20	225
7	4917.50	-62.49	3.40	12.50	Vertical	-55.54	-13.00	42.54	315
8	5620.00	-60.94	3.30	12.50	Vertical	-53.89	-13.00	40.89	90
9	6322.50	-59.45	3.80	11.50	Vertical	-53.90	-13.00	40.90	45
10	7025.00	-55.46	4.20	11.80	Vertical	-50.01	-13.00	37.01	180

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 17 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1414.32	-57.61	1.70	8.70	Vertical	-52.76	-13.00	39.76	135
3	2123.25	-49.87	2.10	11.10	Vertical	-43.02	-13.00	30.02	45
4	2830.00	-64.66	2.50	13.10	Vertical	-56.21	-13.00	43.21	180
5	3118.00	-65.32	2.60	12.70	Vertical	-57.37	-13.00	44.37	180
6	3897.50	-62.64	3.30	12.50	Vertical	-55.59	-13.00	42.59	90
7	4677.00	-62.01	3.40	12.50	Vertical	-55.06	-13.00	42.06	45
8	5472.00	-62.31	3.40	12.80	Vertical	-55.06	-13.00	42.06	135
9	6236.00	-59.25	4.10	11.50	Vertical	-54.00	-13.00	41.00	270
10	7015.50	-57.48	4.20	12.20	Vertical	-51.63	-13.00	38.63	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.



LTE Band 17 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1411.16	-56.20	1.70	8.70	Vertical	-51.35	-13.00	38.35	315
3	2116.75	-49.81	2.10	11.10	Vertical	-42.96	-13.00	29.96	45
4	2820.00	-65.16	2.50	13.10	Vertical	-56.71	-13.00	43.71	180
5	3108.00	-66.01	2.60	12.70	Vertical	-58.06	-13.00	45.06	45
6	3885.00	-64.09	3.30	12.50	Vertical	-57.04	-13.00	44.04	270
7	4662.00	-61.72	3.40	12.50	Vertical	-54.77	-13.00	41.77	90
8	5439.00	-64.16	3.40	12.80	Vertical	-56.91	-13.00	43.91	45
9	6216.00	-60.60	4.10	11.50	Vertical	-55.35	-13.00	42.35	315
10	6993.00	-58.18	4.20	12.20	Vertical	-52.33	-13.00	39.33	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.

LTE Band 66 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3509.00	-62.46	2.70	12.70	Vertical	-54.61	-13.00	41.61	135
3	5263.60	-56.49	3.20	12.50	Vertical	-49.34	-13.00	36.34	45
4	7018.20	-45.33	4.20	11.80	Vertical	-39.88	-13.00	26.88	180
5	8772.60	-50.18	4.40	12.50	Vertical	-44.23	-13.00	31.23	315
6	10527.00	-51.70	4.70	11.80	Vertical	-46.75	-13.00	33.75	45
7	12281.50	-50.68	5.20	13.80	Vertical	-44.23	-13.00	31.23	180
8	14036.00	-49.21	5.70	13.20	Vertical	-43.86	-13.00	30.86	315
9	15790.50	-54.29	6.10	16.80	Vertical	-45.74	-13.00	32.74	180
10	17545.00	-48.74	6.10	14.20	Vertical	-42.79	-13.00	29.79	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.



LTE Band 66 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3505.50	-65.29	2.70	12.70	Vertical	-55.29	-13.00	42.29	45
3	5258.60	-59.91	3.20	12.50	Vertical	-50.61	-13.00	37.61	180
4	7011.20	-47.09	4.20	11.80	Vertical	-39.49	-13.00	26.49	315
5	8764.00	-50.66	4.40	12.50	Vertical	-42.56	-13.00	29.56	135
6	10458.00	-51.51	4.70	11.80	Vertical	-44.41	-13.00	31.41	45
7	12201.00	-49.48	5.20	13.80	Vertical	-40.88	-13.00	27.88	180
8	13944.00	-49.29	5.70	13.20	Vertical	-41.79	-13.00	28.79	315
9	15687.00	-51.02	6.10	16.80	Vertical	-40.32	-13.00	27.32	45
10	17430.00	-48.47	6.10	14.20	Vertical	-40.37	-13.00	27.37	180

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.

LTE Band 66 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3492.20	-63.56	2.70	12.70	Vertical	-53.56	-13.00	40.56	315
3	5238.20	-58.44	3.20	12.50	Vertical	-49.14	-13.00	36.14	180
4	6984.40	-48.99	4.20	11.80	Vertical	-41.39	-13.00	28.39	90
5	8730.40	-49.99	4.40	12.50	Vertical	-41.89	-13.00	28.89	45
6	10418.63	-51.14	4.70	11.80	Vertical	-44.04	-13.00	31.04	135
7	12455.00	-50.92	5.20	13.80	Vertical	-42.32	-13.00	29.32	270
8	13891.50	-51.76	5.70	13.20	Vertical	-44.26	-13.00	31.26	90
9	15627.00	-51.02	6.10	16.80	Vertical	-40.32	-13.00	27.32	225
10	17364.38	-48.36	6.10	14.20	Vertical	-40.26	-13.00	27.26	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.



CA 7C_10M+20M QPSK CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5050.60	-65.10	3.40	12.50	Horizontal	-56.00	-25.00	31.00	90
3	7575.90	-57.69	4.40	12.20	Horizontal	-49.89	-25.00	24.89	45
4	10101.20	-55.43	4.70	11.30	Horizontal	-48.83	-25.00	23.83	315
5	12626.50	-52.78	5.40	13.20	Horizontal	-44.98	-25.00	19.98	90
6	15151.80	-48.89	6.10	13.10	Horizontal	-41.89	-25.00	16.89	270
7	17677.10	-49.62	6.10	14.20	Horizontal	-41.52	-25.00	16.52	135
8	20202.40	--	--	--	--	--	--	--	--
9	22727.70	--	--	--	--	--	--	--	--
10	25253.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

CA 7C_20M+10M QPSK CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5059.60	-64.13	3.40	12.50	Horizontal	-55.03	-25.00	30.03	315
3	7589.40	-58.57	4.40	12.20	Horizontal	-50.77	-25.00	25.77	90
4	10119.20	-53.87	4.70	11.30	Horizontal	-47.27	-25.00	22.27	45
5	12649.00	-52.89	5.40	13.20	Horizontal	-45.09	-25.00	20.09	180
6	15178.80	-52.31	6.10	13.10	Horizontal	-45.31	-25.00	20.31	90
7	17708.60	-50.54	6.10	14.20	Horizontal	-42.44	-25.00	17.44	225
8	20238.40	--	--	--	--	--	--	--	--
9	22768.20	--	--	--	--	--	--	--	--
10	25298.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



CA 7C_15M+15M QPSK CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5093.60	-63.93	3.40	12.50	Horizontal	-54.83	-25.00	29.83	270
3	7589.00	-57.13	4.40	12.20	Horizontal	-49.33	-25.00	24.33	45
4	10160.00	-52.68	4.70	11.30	Horizontal	-46.08	-25.00	21.08	135
5	12662.50	-50.13	5.40	13.20	Horizontal	-42.33	-25.00	17.33	90
6	15195.00	-47.33	6.10	13.10	Horizontal	-40.33	-25.00	15.33	45
7	17727.50	-50.25	6.10	14.20	Horizontal	-42.15	-25.00	17.15	270
8	20260.00	--	--	--	--	--	--	--	--
9	22792.50	--	--	--	--	--	--	--	--
10	25325.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

CA 7C_20M+20M QPSK CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5030.00	-64.72	3.40	12.50	Horizontal	-55.62	-25.00	30.62	225
3	7545.00	-58.34	4.40	12.20	Horizontal	-50.54	-25.00	25.54	90
4	10060.00	-54.54	4.70	11.30	Horizontal	-47.94	-25.00	22.94	45
5	12575.00	-52.81	5.40	13.20	Horizontal	-45.01	-25.00	20.01	135
6	15090.00	-47.11	6.10	13.10	Horizontal	-40.11	-25.00	15.11	90
7	17605.00	-50.06	6.10	14.20	Horizontal	-41.96	-25.00	16.96	225
8	20120.00	--	--	--	--	--	--	--	--
9	22635.00	--	--	--	--	--	--	--	--
10	25150.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NR n7 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5070.00	-64.05	3.40	12.50	Horizontal	-54.95	-25.00	29.95	180
3	7605.00	-57.00	4.40	12.20	Horizontal	-49.20	-25.00	24.20	225
4	10130.00	-53.40	4.70	11.30	Horizontal	-46.80	-25.00	21.80	0
5	12662.50	-52.43	5.40	13.20	Horizontal	-44.63	-25.00	19.63	45
6	15195.00	-47.98	6.10	13.10	Horizontal	-40.98	-25.00	15.98	90
7	17727.50	-50.24	6.10	14.20	Horizontal	-42.14	-25.00	17.14	90
8	20260.00	--	--	--	--	--	--	--	--
9	22792.50	--	--	--	--	--	--	--	--
10	25325.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

NR n7 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5070.00	-64.20	3.40	12.50	Horizontal	-55.10	-25.00	30.10	45
3	7605.00	-57.41	4.40	12.20	Horizontal	-49.61	-25.00	24.61	0
4	10100.00	-54.25	4.70	11.30	Horizontal	-47.65	-25.00	22.65	90
5	12625.00	-53.75	5.40	13.20	Horizontal	-45.95	-25.00	20.95	180
6	15150.00	-51.75	6.10	13.10	Horizontal	-44.75	-25.00	19.75	45
7	17675.00	-49.67	6.10	14.20	Horizontal	-41.57	-25.00	16.57	90
8	20200.00	--	--	--	--	--	--	--	--
9	22725.00	--	--	--	--	--	--	--	--
10	25250.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



NR n7 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5185.98	-64.52	3.20	12.50	Horizontal	-55.22	-25.00	30.22	45
3	7778.97	-58.44	4.40	12.30	Horizontal	-50.54	-25.00	25.54	135
4	10371.96	-54.34	4.70	11.80	Horizontal	-47.24	-25.00	22.24	90
5	12964.95	-52.30	5.40	14.00	Horizontal	-43.70	-25.00	18.70	0
6	15557.94	-55.09	6.10	16.80	Horizontal	-44.39	-25.00	19.39	45
7	18150.93	-50.07	6.10	14.20	Horizontal	-41.97	-25.00	16.97	0
8	20743.92	--	--	--	--	--	--	--	--
9	23336.91	--	--	--	--	--	--	--	--
10	25929.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

NR n41 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5185.98	-65.18	3.20	12.50	Horizontal	-55.88	-25.00	30.88	180
3	7778.97	-57.92	4.40	12.30	Horizontal	-50.02	-25.00	25.02	225
4	10371.96	-51.57	4.70	11.80	Horizontal	-44.47	-25.00	19.47	0
5	12964.95	-53.99	5.40	14.00	Horizontal	-45.39	-25.00	20.39	45
6	15557.94	-55.79	6.10	16.80	Horizontal	-45.09	-25.00	20.09	90
7	18150.93		--	--	--	--	--	--	--
8	20743.92	--	--	--	--	--	--	--	--
9	23336.91	--	--	--	--	--	--	--	--
10	25929.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NR n41 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5185.98	-65.43	3.20	12.50	Horizontal	-56.13	-25.00	31.13	45
3	7778.97	-58.13	4.40	12.30	Horizontal	-50.23	-25.00	25.23	315
4	10371.96	-52.53	4.70	11.80	Horizontal	-45.43	-25.00	20.43	90
5	12964.95	-53.23	5.40	14.00	Horizontal	-44.63	-25.00	19.63	180
6	15557.94	-57.34	6.10	16.80	Horizontal	-46.64	-25.00	21.64	45
7	18150.93		--	--	--	--	--	--	--
8	20743.92	--	--	--	--	--	--	--	--
9	23336.91	--	--	--	--	--	--	--	--
10	25929.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

NR n41 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5185.98	-64.66	3.20	12.50	Horizontal	-55.36	-25.00	30.36	45
3	7778.97	-61.90	4.40	12.30	Horizontal	-54.00	-25.00	29.00	135
4	10371.96	-55.39	4.70	11.80	Horizontal	-48.29	-25.00	23.29	90
5	12964.95	-52.48	5.40	14.00	Horizontal	-43.88	-25.00	18.88	0
6	15557.94	-52.21	6.10	16.80	Horizontal	-41.51	-25.00	16.51	45
7	18150.93		--	--	--	--	--	--	--
8	20743.92	--	--	--	--	--	--	--	--
9	23336.91	--	--	--	--	--	--	--	--
10	25929.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



NR n66 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3490.00	-66.05	2.70	12.70	Horizontal	-56.05	-13.00	43.05	180
3	5235.50	-66.36	3.20	12.50	Horizontal	-57.06	-13.00	44.06	225
4	6980.20	-45.46	4.20	11.80	Horizontal	-37.86	-13.00	24.86	0
5	8725.00	-54.97	4.40	12.50	Horizontal	-46.87	-13.00	33.87	45
6	10470.00	-53.91	4.70	11.80	Horizontal	-46.81	-13.00	33.81	90
7	12215.00	-52.98	5.20	13.80	Horizontal	-44.38	-13.00	31.38	45
8	13960.00	-49.20	5.70	13.20	Horizontal	-41.70	-13.00	28.70	135
9	15705.00	-53.22	6.10	16.80	Horizontal	-42.52	-13.00	29.52	0
10	17450.00	-50.42	6.10	14.20	Horizontal	-42.32	-13.00	29.32	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

NR n66 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3490.00	-62.02	2.70	12.70	Horizontal	-52.02	-13.00	39.02	45
3	5235.00	-48.47	3.20	12.50	Horizontal	-39.17	-13.00	26.17	135
4	6980.00	-61.53	4.20	11.80	Horizontal	-53.93	-13.00	40.93	90
5	8725.00	-56.69	4.40	12.50	Horizontal	-48.59	-13.00	35.59	135
6	10470.00	-52.86	4.70	11.80	Horizontal	-45.76	-13.00	32.76	45
7	12215.00	-54.14	5.20	13.80	Horizontal	-45.54	-13.00	32.54	180
8	13960.00	-50.34	5.70	13.20	Horizontal	-42.84	-13.00	29.84	0
9	15705.00	-56.35	6.10	16.80	Horizontal	-45.65	-13.00	32.65	270
10	17450.00	-50.14	6.10	14.20	Horizontal	-42.04	-13.00	29.04	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NR n66 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3490.00	-65.15	2.70	12.70	Horizontal	-55.15	-13.00	42.15	45
3	5235.10	-65.43	3.20	12.50	Horizontal	-56.13	-13.00	43.13	135
4	6980.20	-46.19	4.20	11.80	Horizontal	-38.59	-13.00	25.59	90
5	8725.40	-54.34	4.40	12.50	Horizontal	-46.24	-13.00	33.24	0
6	10470.20	-53.20	4.70	11.80	Horizontal	-46.10	-13.00	33.10	45
7	12215.00	-54.66	5.20	13.80	Horizontal	-46.06	-13.00	33.06	90
8	13960.00	-50.27	5.70	13.20	Horizontal	-42.77	-13.00	29.77	0
9	15705.00	-56.47	6.10	16.80	Horizontal	-45.77	-13.00	32.77	90
10	17450.00	-50.25	6.10	14.20	Horizontal	-42.15	-13.00	29.15	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

DC_2A-n66A QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3505.00	-55.70	2.70	12.70	Horizontal	-45.70	-13.00	32.70	225
3	5258.00	-44.99	3.20	12.50	Horizontal	-35.69	-13.00	22.69	135
4	6970.00	-61.25	4.20	11.80	Horizontal	-53.65	-13.00	40.65	0
5	8712.50	-56.70	4.40	12.50	Horizontal	-48.60	-13.00	35.60	45
6	10455.00	-51.83	4.70	11.80	Horizontal	-44.73	-13.00	31.73	90
7	12197.50	-54.58	5.20	13.80	Horizontal	-45.98	-13.00	32.98	45
8	13940.00	-50.84	5.70	13.20	Horizontal	-43.34	-13.00	30.34	135
9	15682.50	-58.42	6.10	16.80	Horizontal	-47.72	-13.00	34.72	0
10	17425.00	-51.13	6.10	14.20	Horizontal	-43.03	-13.00	30.03	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



DC_2A-n66A QPSK 15MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3495.70	-63.88	2.70	12.70	Horizontal	-53.88	-13.00	40.88	45
3	5244.20	-43.81	3.20	12.50	Horizontal	-34.51	-13.00	21.51	0
4	6950.00	-60.81	4.20	11.80	Horizontal	-53.21	-13.00	40.21	90
5	8687.50	-56.12	4.40	12.50	Horizontal	-48.02	-13.00	35.02	225
6	10425.00	-52.71	4.70	11.80	Horizontal	-45.61	-13.00	32.61	135
7	12162.50	-54.39	5.20	13.80	Horizontal	-45.79	-13.00	32.79	0
8	13900.00	-49.69	5.70	13.20	Horizontal	-42.19	-13.00	29.19	90
9	15637.50	-56.20	6.10	16.80	Horizontal	-45.50	-13.00	32.50	135
10	17375.00	-49.51	6.10	14.20	Horizontal	-41.41	-13.00	28.41	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

DC_2A-n66A QPSK 30MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3481.40	-62.35	2.70	12.70	Horizontal	-52.35	-13.00	39.35	90
3	5222.00	-41.55	3.20	12.50	Horizontal	-32.25	-13.00	19.25	180
4	7003.00	-57.37	4.20	11.80	Horizontal	-49.77	-13.00	36.77	0
5	8625.00	-55.42	4.40	12.50	Horizontal	-47.32	-13.00	34.32	45
6	10350.00	-47.75	4.70	11.80	Horizontal	-40.65	-13.00	27.65	315
7	12075.00	-53.95	5.20	13.80	Horizontal	-45.35	-13.00	32.35	225
8	13800.00	-48.92	5.70	13.20	Horizontal	-41.42	-13.00	28.42	270
9	15525.00	-55.01	6.10	16.80	Horizontal	-44.31	-13.00	31.31	180
10	17250.00	-49.63	6.10	14.20	Horizontal	-41.53	-13.00	28.53	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NRn 77 subset 1 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7018.38	-59.94	4.20	12.20	Horizontal	-51.94	-13.00	38.94	180
3	10527.57	-53.29	5.90	11.90	Horizontal	-47.29	-13.00	34.29	225
4	14036.76	-51.59	5.80	13.10	Horizontal	-44.29	-13.00	31.29	0
5	17545.95	-50.90	6.10	14.20	Horizontal	-42.80	-13.00	29.80	270
6	21055.14	--	--	--	--	--	--	--	--
7	24564.33	--	--	--	--	--	--	--	--
8	28073.52	--	--	--	--	--	--	--	--
9	31582.71	--	--	--	--	--	--	--	--
10	35091.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

NR n77 subset 1 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7018.38	-56.77	4.20	12.20	Horizontal	-48.77	-13.00	35.77	45
3	10527.57	-49.31	5.90	11.90	Horizontal	-43.31	-13.00	30.31	135
4	14036.76	-48.27	5.80	13.10	Horizontal	-40.97	-13.00	27.97	315
5	17545.95	-48.42	6.10	14.20	Horizontal	-40.32	-13.00	27.32	90
6	21055.14	--	--	--	--	--	--	--	--
7	24564.33	--	--	--	--	--	--	--	--
8	28073.52	--	--	--	--	--	--	--	--
9	31582.71	--	--	--	--	--	--	--	--
10	35091.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NR n77 subset 1 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7098.30	-59.28	4.20	12.20	Horizontal	-51.28	-13.00	38.28	45
3	10647.45	-50.93	5.90	11.90	Horizontal	-44.93	-13.00	31.93	135
4	14196.60	-48.67	5.80	13.10	Horizontal	-41.37	-13.00	28.37	90
5	17745.75	-50.00	6.10	14.20	Horizontal	-41.90	-13.00	28.90	90
6	21294.90	--	--	--	--	--	--	--	--
7	24844.05	--	--	--	--	--	--	--	--
8	28393.20	--	--	--	--	--	--	--	--
9	31942.35	--	--	--	--	--	--	--	--
10	35491.50	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

DC_2A-n77A subset 1 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7450.00	-56.59	4.20	12.20	Horizontal	-48.59	-13.00	35.59	225
3	11250.00	-50.54	5.90	11.90	Horizontal	-44.54	-13.00	31.54	180
4	15000.00	-53.62	5.80	13.10	Horizontal	-46.32	-13.00	33.32	270
5	18750.00	--	--	--	--	--	--	--	--
6	22500.00	--	--	--	--	--	--	--	--
7	26250.00	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



DC_2A-n77A subset 1 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7450.00	-56.49	4.20	12.20	Horizontal	-48.49	-13.00	35.49	0
3	11250.00	-50.38	5.90	11.90	Horizontal	-44.38	-13.00	31.38	45
4	15000.00	-52.02	5.80	13.10	Horizontal	-44.72	-13.00	31.72	90
5	18750.00	--	--	--	--	--	--	--	--
6	22500.00	--	--	--	--	--	--	--	--
7	26250.00	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

DC_2A-n77A subset 1 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7492.00	-56.53	4.20	12.20	Horizontal	-48.53	-13.00	35.53	45
3	11250.00	-49.64	5.90	11.90	Horizontal	-43.64	-13.00	30.64	135
4	15000.00	-53.05	5.80	13.10	Horizontal	-45.75	-13.00	32.75	90
5	18750.00	--	--	--	--	--	--	--	--
6	22500.00	--	--	--	--	--	--	--	--
7	26250.00	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



NR n77 subset 2 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7698.36	-58.96	4.20	12.20	Horizontal	-50.96	-13.00	37.96	180
3	11547.54	-51.09	5.90	11.90	Horizontal	-45.09	-13.00	32.09	45
4	15396.72	-52.83	5.80	13.10	Horizontal	-45.53	-13.00	32.53	270
5	19245.90	--	--	--	--	--	--	--	--
6	23095.08	--	--	--	--	--	--	--	--
7	26944.26	--	--	--	--	--	--	--	--
8	30793.44	--	--	--	--	--	--	--	--
9	34642.62	--	--	--	--	--	--	--	--
10	38491.80	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NR n77 subset 2 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7698.36	-56.01	4.20	12.20	Horizontal	-48.01	-13.00	35.01	45
3	11547.54	-49.22	5.90	11.90	Horizontal	-43.22	-13.00	30.22	0
4	15396.72	-52.80	5.80	13.10	Horizontal	-45.50	-13.00	32.50	90
5	19245.90	--	--	--	--	--	--	--	--
6	23095.08	--	--	--	--	--	--	--	--
7	26944.26	--	--	--	--	--	--	--	--
8	30793.44	--	--	--	--	--	--	--	--
9	34642.62	--	--	--	--	--	--	--	--
10	38491.80	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

NR n77 subset 2 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7778.28	-58.14	4.20	12.20	Horizontal	-50.14	-13.00	37.14	45
3	11667.42	-50.04	5.90	11.90	Horizontal	-44.04	-13.00	31.04	270
4	15556.56	-54.04	5.80	13.10	Horizontal	-46.74	-13.00	33.74	90
5	19445.70	--	--	--	--	--	--	--	--
6	23334.84	--	--	--	--	--	--	--	--
7	27223.98	--	--	--	--	--	--	--	--
8	31113.12	--	--	--	--	--	--	--	--
9	35002.26	--	--	--	--	--	--	--	--
10	38891.40	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



DC_2A-n77A subset 2 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7680.00	-57.94	4.20	12.20	Horizontal	-49.94	-13.00	36.94	225
3	11520.00	-50.35	5.90	11.90	Horizontal	-44.35	-13.00	31.35	180
4	15360.00	-52.13	5.80	13.10	Horizontal	-44.83	-13.00	31.83	0
5	19200.00	--	--	--	--	--	--	--	--
6	23040.00	--	--	--	--	--	--	--	--
7	26880.00	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

DC_2A-n77A subset 2 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7680.00	-59.53	4.20	12.20	Horizontal	-51.53	-13.00	38.53	90
3	11520.00	-49.24	5.90	11.90	Horizontal	-43.24	-13.00	30.24	45
4	15360.00	-52.43	5.80	13.10	Horizontal	-45.13	-13.00	32.13	0
5	19200.00	--	--	--	--	--	--	--	--
6	23040.00	--	--	--	--	--	--	--	--
7	26880.00	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



DC_2A-n77A subset 2QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7680.00	-58.64	4.20	12.20	Horizontal	-50.64	-13.00	37.64	45
3	11520.00	-50.34	5.90	11.90	Horizontal	-44.34	-13.00	31.34	270
4	15360.00	-51.97	5.80	13.10	Horizontal	-44.67	-13.00	31.67	90
5	19200.00	--	--	--	--	--	--	--	--
6	23040.00	--	--	--	--	--	--	--	--
7	26880.00	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

**Second Antenna**

WCDMA Band IV CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.20	-65.81	2.70	12.70	Horizontal	-55.81	-13.00	42.81	135
3	5197.80	-61.69	3.20	12.50	Horizontal	-52.39	-13.00	39.39	0
4	6930.40	-58.92	4.20	11.80	Horizontal	-51.32	-13.00	38.32	315
5	8663.00	-57.01	4.40	12.50	Horizontal	-48.91	-13.00	35.91	225
6	10395.60	-52.97	4.70	11.30	Horizontal	-46.37	-13.00	33.37	0
7	12128.20	-54.60	5.20	13.80	Horizontal	-46.00	-13.00	33.00	45
8	13860.80	-51.62	5.70	11.30	Horizontal	-46.02	-13.00	33.02	225
9	15593.40	-53.14	6.10	16.80	Horizontal	-42.44	-13.00	29.44	135
10	17326.00	-50.24	6.10	14.20	Horizontal	-42.14	-13.00	29.14	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.10	-67.33	2.70	12.70	Horizontal	-57.33	-13.00	44.33	315
3	5197.50	-55.64	3.20	12.50	Horizontal	-46.34	-13.00	33.34	315
4	6930.00	-61.68	4.20	11.80	Horizontal	-54.08	-13.00	41.08	45
5	8662.50	-59.04	4.40	12.50	Horizontal	-50.94	-13.00	37.94	315
6	10395.00	-52.39	4.70	11.30	Horizontal	-45.79	-13.00	32.79	315
7	12127.50	-51.28	5.20	13.80	Horizontal	-42.68	-13.00	29.68	45
8	13860.00	-54.19	5.70	11.30	Horizontal	-48.59	-13.00	35.59	135
9	15592.50	-53.92	6.10	16.80	Horizontal	-43.22	-13.00	30.22	90
10	17325.00	-51.35	6.10	14.20	Horizontal	-43.25	-13.00	30.25	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



LTE Band 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.90	-68.98	2.70	12.70	Horizontal	-58.98	-13.00	45.98	270
3	5191.10	-55.88	3.20	12.50	Horizontal	-46.58	-13.00	33.58	270
4	6930.00	-63.75	4.20	11.80	Horizontal	-56.15	-13.00	43.15	180
5	8662.50	-59.57	4.40	12.50	Horizontal	-51.47	-13.00	38.47	90
6	10380.00	-53.56	4.70	11.30	Horizontal	-46.96	-13.00	33.96	0
7	12110.00	-53.06	5.20	13.80	Horizontal	-44.46	-13.00	31.46	180
8	13840.00	-51.94	5.70	11.30	Horizontal	-46.34	-13.00	33.34	270
9	15570.00	-54.90	6.10	16.80	Horizontal	-44.20	-13.00	31.20	270
10	17300.00	-51.19	6.10	14.20	Horizontal	-43.09	-13.00	30.09	180

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

LTE Band 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.10	-66.58	2.70	12.70	Horizontal	-56.58	-13.00	43.58	0
3	5170.50	-59.34	3.20	12.50	Horizontal	-50.04	-13.00	37.04	180
4	6930.00	-64.26	4.20	11.80	Horizontal	-56.66	-13.00	43.66	135
5	8662.50	-59.13	4.40	12.50	Horizontal	-51.03	-13.00	38.03	90
6	10395.00	-53.02	4.70	11.30	Horizontal	-46.42	-13.00	33.42	225
7	12064.80	-53.74	5.20	13.80	Horizontal	-45.14	-13.00	32.14	45
8	13860.00	-52.34	5.70	11.30	Horizontal	-46.74	-13.00	33.74	225
9	15592.50	-54.35	6.10	16.80	Horizontal	-43.65	-13.00	30.65	135
10	17325.00	-52.03	6.10	14.20	Horizontal	-43.93	-13.00	30.93	45.00

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



LTE Band 7 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5052.20	-60.37	3.40	12.50	Horizontal	-51.27	-25.00	26.27	45
3	7598.40	-49.05	4.40	12.20	Horizontal	-41.25	-25.00	16.25	135
4	10104.40	-52.88	4.70	11.30	Horizontal	-46.28	-25.00	21.28	225
5	12630.50	-54.22	5.40	13.20	Horizontal	-46.42	-25.00	21.42	45
6	15156.60	-48.26	6.10	13.10	Horizontal	-41.26	-25.00	16.26	90
7	17745.00	-47.69	6.10	14.20	Horizontal	-39.59	-25.00	14.59	225
8	20208.80	--	--	--	--	--	--	--	--
9	22734.90	--	--	--	--	--	--	--	--
10	25261.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 7 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5065.80	-60.84	3.40	12.50	Horizontal	-51.74	-25.00	26.74	45
3	7578.00	-47.99	4.40	12.20	Horizontal	-40.19	-25.00	15.19	135
4	10130.63	-52.33	4.70	11.30	Horizontal	-45.73	-25.00	20.73	225
5	12675.00	-52.84	5.40	13.20	Horizontal	-45.04	-25.00	20.04	45
6	15210.00	-46.83	6.10	13.10	Horizontal	-39.83	-25.00	14.83	0
7	17745.00	-50.71	6.10	14.20	Horizontal	-42.61	-25.00	17.61	45
8	20280.00	--	--	--	--	--	--	--	--
9	22815.00	--	--	--	--	--	--	--	--
10	25350.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



LTE Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1414.08	-68.06	1.70	8.70	Horizontal	-63.21	-13.00	50.21	315
3	2121.00	-50.53	2.10	11.10	Horizontal	-43.68	-13.00	30.68	0
4	2827.20	-65.90	2.30	13.10	Horizontal	-57.25	-13.00	44.25	180
5	3537.50	-62.25	2.60	12.70	Horizontal	-54.30	-13.00	41.30	45
6	4245.00	-63.96	3.30	12.50	Horizontal	-56.91	-13.00	43.91	225
7	4952.50	-60.16	3.40	12.50	Horizontal	-53.21	-13.00	40.21	0
8	5660.00	-59.76	3.30	12.50	Horizontal	-52.71	-13.00	39.71	90
9	6367.50	-59.05	3.80	11.50	Horizontal	-53.50	-13.00	40.50	135
10	7075.00	-57.82	4.20	11.80	Horizontal	-52.37	-13.00	39.37	45

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.57	-65.04	1.70	8.70	Horizontal	-60.19	-13.00	47.19	0
3	2116.15	-62.01	2.10	11.10	Horizontal	-55.16	-13.00	42.16	0
4	2820.00	-64.33	2.30	13.10	Horizontal	-55.68	-13.00	42.68	45
5	3525.00	-62.02	2.60	12.70	Horizontal	-54.07	-13.00	41.07	45
6	4230.00	-62.41	3.30	12.50	Horizontal	-55.36	-13.00	42.36	45
7	4935.00	-60.02	3.40	12.50	Horizontal	-53.07	-13.00	40.07	45
8	5640.00	-57.47	3.30	12.50	Horizontal	-50.42	-13.00	37.42	90
9	6345.00	-59.02	3.80	11.50	Horizontal	-53.47	-13.00	40.47	135
10	7050.00	-58.84	4.20	11.80	Horizontal	-53.39	-13.00	40.39	45

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



LTE Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1406.03	-65.06	1.70	8.70	Horizontal	-60.21	-13.00	47.21	45
3	2109.25	-60.74	2.10	11.10	Horizontal	-53.89	-13.00	40.89	45
4	2810.00	-66.00	2.30	13.10	Horizontal	-57.35	-13.00	44.35	45
5	3512.50	-60.90	2.60	12.70	Horizontal	-52.95	-13.00	39.95	45
6	4215.00	-58.75	3.30	12.50	Horizontal	-51.70	-13.00	38.70	0
7	4917.50	-60.18	3.40	12.50	Horizontal	-53.23	-13.00	40.23	90
8	5620.00	-59.47	3.30	12.50	Horizontal	-52.42	-13.00	39.42	135
9	6322.50	-57.83	3.80	11.50	Horizontal	-52.28	-13.00	39.28	45
10	7025.00	-57.24	4.20	11.80	Horizontal	-51.79	-13.00	38.79	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 17 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1414.32	-65.79	1.70	8.70	Horizontal	-60.94	-13.00	47.94	225
3	2123.25	-46.15	2.10	11.10	Horizontal	-39.30	-13.00	26.30	225
4	2830.00	-65.09	2.50	13.10	Horizontal	-56.64	-13.00	43.64	45
5	3118.00	-66.17	2.60	12.70	Horizontal	-58.22	-13.00	45.22	45
6	3897.50	-64.07	3.30	12.50	Horizontal	-57.02	-13.00	44.02	90
7	4677.00	-63.21	3.40	12.50	Horizontal	-56.26	-13.00	43.26	45
8	5472.00	-61.88	3.40	12.80	Horizontal	-54.63	-13.00	41.63	135
9	6236.00	-59.46	4.10	11.50	Horizontal	-54.21	-13.00	41.21	0
10	7015.50	-59.94	4.20	12.20	Horizontal	-54.09	-13.00	41.09	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



LTE Band 17 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1411.16	-62.51	1.70	8.70	Horizontal	-57.66	-13.00	44.66	225
3	2116.75	-61.61	2.10	11.10	Horizontal	-54.76	-13.00	41.76	225
4	2820.00	-53.89	2.50	13.10	Horizontal	-45.44	-13.00	32.44	135
5	3108.00	-64.99	2.60	12.70	Horizontal	-57.04	-13.00	44.04	0
6	3885.00	-63.98	3.30	12.50	Horizontal	-56.93	-13.00	43.93	90
7	4662.00	-62.86	3.40	12.50	Horizontal	-55.91	-13.00	42.91	225
8	5439.00	-62.18	3.40	12.80	Horizontal	-54.93	-13.00	41.93	135
9	6216.00	-58.76	4.10	11.50	Horizontal	-53.51	-13.00	40.51	0
10	6993.00	-60.13	4.20	12.20	Horizontal	-54.28	-13.00	41.28	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 66 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3509.00	-67.80	2.70	12.70	Horizontal	-57.80	-13.00	44.80	45
3	5263.60	-46.51	3.20	12.50	Horizontal	-37.21	-13.00	24.21	135
4	7018.20	-69.10	4.20	11.80	Horizontal	-61.50	-13.00	48.50	225
5	8772.60	-63.93	4.40	12.50	Horizontal	-55.83	-13.00	42.83	45
6	10527.00	-62.96	4.70	11.80	Horizontal	-55.86	-13.00	42.86	0
7	12281.50	-64.75	5.20	13.80	Horizontal	-56.15	-13.00	43.15	0
8	14036.00	-62.23	5.70	13.20	Horizontal	-54.73	-13.00	41.73	225
9	15790.50	-64.59	6.10	16.80	Horizontal	-53.89	-13.00	40.89	315
10	17545.00	-60.05	6.10	14.20	Horizontal	-51.95	-13.00	38.95	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



LTE Band 66 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3505.50	-68.23	2.70	12.70	Horizontal	-58.23	-13.00	45.23	45
3	5258.60	-45.46	3.20	12.50	Horizontal	-36.16	-13.00	23.16	135
4	7011.20	-69.58	4.20	11.80	Horizontal	-61.98	-13.00	48.98	225
5	8764.00	-64.06	4.40	12.50	Horizontal	-55.96	-13.00	42.96	45
6	10458.00	-64.96	4.70	11.80	Horizontal	-57.86	-13.00	44.86	90
7	12201.00	-63.03	5.20	13.80	Horizontal	-54.43	-13.00	41.43	180
8	13944.00	-64.82	5.70	13.20	Horizontal	-57.32	-13.00	44.32	180
9	15687.00	-64.42	6.10	16.80	Horizontal	-53.72	-13.00	40.72	0
10	3505.50	-63.03	2.70	12.70	Horizontal	-53.03	-13.00	40.03	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 66 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3492.20	-64.40	2.70	12.70	Horizontal	-54.40	-13.00	41.40	135
3	5238.20	-43.05	3.20	12.50	Horizontal	-33.75	-13.00	20.75	225
4	6984.40	-69.82	4.20	11.80	Horizontal	-62.22	-13.00	49.22	45
5	8730.40	-68.17	4.40	12.50	Horizontal	-60.07	-13.00	47.07	135
6	10418.63	-62.77	4.70	11.80	Horizontal	-55.67	-13.00	42.67	0
7	12455.00	-63.41	5.20	13.80	Horizontal	-54.81	-13.00	41.81	90
8	13891.50	-62.91	5.70	13.20	Horizontal	-55.41	-13.00	42.41	180
9	15627.00	-67.11	6.10	16.80	Horizontal	-56.41	-13.00	43.41	135
10	17364.38	-60.62	6.10	14.20	Horizontal	-52.52	-13.00	39.52	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



CA 7C_10M+20M QPSK CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5050.60	-63.51	3.40	12.50	Vertical	-54.41	-25.00	29.41	0
3	7575.90	-55.92	4.40	12.20	Vertical	-48.12	-25.00	23.12	45
4	10101.20	-54.24	4.70	11.30	Vertical	-47.64	-25.00	22.64	90
5	12626.50	-52.18	5.40	13.20	Vertical	-44.38	-25.00	19.38	0
6	15151.80	-53.14	6.10	13.10	Vertical	-46.14	-25.00	21.14	315
7	17677.10	-49.70	6.10	14.20	Vertical	-41.60	-25.00	16.60	180
8	20202.40	--	--	--	--	--	--	--	--
9	22727.70	--	--	--	--	--	--	--	--
10	25253.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.

CA 7C_20M+10M QPSK CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5059.60	-63.87	3.40	12.50	Vertical	-54.77	-25.00	29.77	0
3	7589.40	-56.62	4.40	12.20	Vertical	-48.82	-25.00	23.82	45
4	10119.20	-53.26	4.70	11.30	Vertical	-46.66	-25.00	21.66	90
5	12649.00	-52.17	5.40	13.20	Vertical	-44.37	-25.00	19.37	0
6	15178.80	-52.33	6.10	13.10	Vertical	-45.33	-25.00	20.33	315
7	17708.60	-48.82	6.10	14.20	Vertical	-40.72	-25.00	15.72	180
8	20238.40	--	--	--	--	--	--	--	--
9	22768.20	--	--	--	--	--	--	--	--
10	25298.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.



CA 7C_15M+15M QPSK CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5093.60	-64.12	3.40	12.50	Vertical	-55.02	-25.00	30.02	180
3	7589.00	-56.01	4.40	12.20	Vertical	-48.21	-25.00	23.21	0
4	10160.00	-52.93	4.70	11.30	Vertical	-46.33	-25.00	21.33	0
5	12662.50	-53.29	5.40	13.20	Vertical	-45.49	-25.00	20.49	45
6	15195.00	-52.32	6.10	13.10	Vertical	-45.32	-25.00	20.32	180
7	17727.50	-49.38	6.10	14.20	Vertical	-41.28	-25.00	16.28	0
8	20260.00	--	--	--	--	--	--	--	--
9	22792.50	--	--	--	--	--	--	--	--
10	25325.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

CA 7C_20M+20M QPSK CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5030.00	-64.14	3.40	12.50	Vertical	-55.04	-25.00	30.04	45
3	7545.00	-56.71	4.40	12.20	Vertical	-48.91	-25.00	23.91	90
4	10060.00	-53.48	4.70	11.30	Vertical	-46.88	-25.00	21.88	0
5	12575.00	-54.69	5.40	13.20	Vertical	-46.89	-25.00	21.89	315
6	15090.00	-52.08	6.10	13.10	Vertical	-45.08	-25.00	20.08	180
7	17605.00	-48.03	6.10	14.20	Vertical	-39.93	-25.00	14.93	0
8	20120.00	--	--	--	--	--	--	--	--
9	22635.00	--	--	--	--	--	--	--	--
10	25150.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.



NR n7 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5070.00	-65.11	3.40	12.50	Horizontal	-56.01	-25.00	31.01	0
3	7605.00	-58.54	4.40	12.20	Horizontal	-50.74	-25.00	25.74	90
4	10130.00	-54.16	4.70	11.30	Horizontal	-47.56	-25.00	22.56	45
5	12662.50	-55.00	5.40	13.20	Horizontal	-47.20	-25.00	22.20	180
6	15195.00	-51.03	6.10	13.10	Horizontal	-44.03	-25.00	19.03	90
7	17727.50	-50.55	6.10	14.20	Horizontal	-42.45	-25.00	17.45	180
8	20260.00	--	--	--	--	--	--	--	--
9	22792.50	--	--	--	--	--	--	--	--
10	25325.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

NR n7 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5070.00	-65.17	3.40	12.50	Horizontal	-56.07	-25.00	31.07	0
3	7605.00	-58.07	4.40	12.20	Horizontal	-50.27	-25.00	25.27	45
4	10130.00	-54.20	4.70	11.30	Horizontal	-47.60	-25.00	22.60	45
5	12662.50	-51.56	5.40	13.20	Horizontal	-43.76	-25.00	18.76	270
6	15195.00	-50.65	6.10	13.10	Horizontal	-43.65	-25.00	18.65	90
7	17727.50	-49.98	6.10	14.20	Horizontal	-41.88	-25.00	16.88	0
8	20260.00	--	--	--	--	--	--	--	--
9	22792.50	--	--	--	--	--	--	--	--
10	25325.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



NR n41 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5185.98	-65.87	3.20	12.50	Horizontal	-56.57	-25.00	31.57	45
3	7778.97	-59.21	4.40	12.30	Horizontal	-51.31	-25.00	26.31	90
4	10371.96	-55.74	4.70	11.80	Horizontal	-48.64	-25.00	23.64	135
5	12964.95	-55.81	5.40	14.00	Horizontal	-47.21	-25.00	22.21	0
6	15557.94	-56.85	6.10	16.80	Horizontal	-46.15	-25.00	21.15	45
7	18150.93	-51.35	6.10	14.20	Horizontal	-43.25	-25.00	18.25	0
8	20743.92	--	--	--	--	--	--	--	--
9	23336.91	--	--	--	--	--	--	--	--
10	25929.90	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

NR n41 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5185.98	-63.01	3.20	12.50	Horizontal	-53.71	-25.00	528.71	180
3	7778.97	-57.58	4.40	12.30	Horizontal	-49.68	-25.00	24.68	225
4	10371.96	-53.27	4.70	11.80	Horizontal	-46.17	-25.00	21.17	90
5	12964.95	-52.81	5.40	14.00	Horizontal	-44.21	-25.00	19.21	45
6	15557.94	-55.75	6.10	16.80	Horizontal	-45.05	-25.00	20.05	180
7	18150.93	--	--	--	--	--	--	--	--
8	20743.92	--	--	--	--	--	--	--	--
9	23336.91	--	--	--	--	--	--	--	--
10	25929.90	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



NR n41 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5185.98	-65.56	3.20	12.50	Horizontal	-56.26	-25.00	31.26	0
3	7778.97	-60.00	4.40	12.30	Horizontal	-52.10	-25.00	27.10	90
4	10371.96	-53.65	4.70	11.80	Horizontal	-46.55	-25.00	21.55	270
5	12964.95	-53.96	5.40	14.00	Horizontal	-45.36	-25.00	20.36	45
6	15557.94	-56.94	6.10	16.80	Horizontal	-46.24	-25.00	21.24	90
7	18150.93		--	--	--	--	--	--	--
8	20743.92	--	--	--	--	--	--	--	--
9	23336.91	--	--	--	--	--	--	--	--
10	25929.90	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

NR n41 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5185.98	-59.85	3.20	12.50	Horizontal	-55.94	-25.00	30.94	45
3	7778.97	-51.56	4.40	12.30	Horizontal	-50.14	-25.00	25.14	90
4	10371.96	-51.53	4.70	11.80	Horizontal	-45.29	-25.00	20.29	90
5	12964.95	-52.97	5.40	14.00	Horizontal	-46.95	-25.00	21.95	45
6	15557.94	-54.07	6.10	16.80	Horizontal	-46.15	-25.00	21.15	180
7	18150.93		--	--	--	--	--	--	--
8	20743.92	--	--	--	--	--	--	--	--
9	23336.91	--	--	--	--	--	--	--	--
10	25929.90	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NR n66 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3490.00	-63.34	2.70	12.70	Horizontal	-53.34	-13.00	40.34	180
3	5235.50	-63.18	3.20	12.50	Horizontal	-53.88	-13.00	40.88	0
4	6980.20	-53.95	4.20	11.80	Horizontal	-46.35	-13.00	33.35	0
5	8725.00	-50.18	4.40	12.50	Horizontal	-42.08	-13.00	29.08	45
6	10470.00	-51.96	4.70	11.80	Horizontal	-44.86	-13.00	31.86	90
7	12215.00	-53.53	5.20	13.80	Horizontal	-44.93	-13.00	31.93	45
8	13960.00	-49.64	5.70	13.20	Horizontal	-42.14	-13.00	29.14	315
9	15705.00	-56.91	6.10	16.80	Horizontal	-46.21	-13.00	33.21	0
10	17450.00	-49.21	6.10	14.20	Horizontal	-41.11	-13.00	28.11	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

NR n66 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3490.00	-67.84	2.70	12.70	Horizontal	-57.84	-13.00	44.84	45
3	5235.00	-64.33	3.20	12.50	Horizontal	-55.03	-13.00	42.03	135
4	6980.00	-61.87	4.20	11.80	Horizontal	-54.27	-13.00	41.27	90
5	8725.00	-57.31	4.40	12.50	Horizontal	-49.21	-13.00	36.21	0
6	10470.00	-52.06	4.70	11.80	Horizontal	-44.96	-13.00	31.96	270
7	12215.00	-55.36	5.20	13.80	Horizontal	-46.76	-13.00	33.76	90
8	13960.00	-51.20	5.70	13.20	Horizontal	-43.70	-13.00	30.70	45
9	15705.00	-56.54	6.10	16.80	Horizontal	-45.84	-13.00	32.84	90
10	17450.00	-50.25	6.10	14.20	Horizontal	-42.15	-13.00	29.15	180

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NR n66 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3490.00	-63.03	2.70	12.70	Horizontal	-53.03	-13.00	40.03	45
3	5235.00	-66.49	3.20	12.50	Horizontal	-57.19	-13.00	44.19	135
4	6980.00	-55.34	4.20	11.80	Horizontal	-47.74	-13.00	34.74	90
5	8725.00	-47.26	4.40	12.50	Horizontal	-39.16	-13.00	26.16	0
6	10470.00	-52.09	4.70	11.80	Horizontal	-44.99	-13.00	31.99	45
7	12215.00	-55.09	5.20	13.80	Horizontal	-46.49	-13.00	33.49	90
8	13960.00	-50.12	5.70	13.20	Horizontal	-42.62	-13.00	29.62	0
9	15705.00	-57.08	6.10	16.80	Horizontal	-46.38	-13.00	33.38	90
10	17450.00	-50.49	6.10	14.20	Horizontal	-42.39	-13.00	29.39	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

NRn 77 subset 1 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7018.38	-59.07	4.20	12.20	Horizontal	-51.07	-13.00	38.07	180
3	10527.57	-49.53	5.90	11.90	Horizontal	-43.53	-13.00	30.53	225
4	14036.76	-49.37	5.80	13.10	Horizontal	-42.07	-13.00	29.07	45
5	17545.95	-49.47	6.10	14.20	Horizontal	-41.37	-13.00	28.37	90
6	21055.14	--	--	--	--	--	--	--	--
7	24564.33	--	--	--	--	--	--	--	--
8	28073.52	--	--	--	--	--	--	--	--
9	31582.71	--	--	--	--	--	--	--	--
10	35091.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



NRn 77 subset 1 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7018.38	-57.98	4.20	12.20	Horizontal	-49.98	-13.00	36.98	0
3	10527.57	-50.50	5.90	11.90	Horizontal	-44.50	-13.00	31.50	135
4	14036.76	-48.82	5.80	13.10	Horizontal	-41.52	-13.00	28.52	90
5	17545.95	-49.07	6.10	14.20	Horizontal	-40.97	-13.00	27.97	45
6	21055.14	--	--	--	--	--	--	--	--
7	24564.33	--	--	--	--	--	--	--	--
8	28073.52	--	--	--	--	--	--	--	--
9	31582.71	--	--	--	--	--	--	--	--
10	35091.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

NRn 77 subset 1 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7098.30	-59.08	4.20	12.20	Horizontal	-51.08	-13.00	38.08	45
3	10647.45	-51.07	5.90	11.90	Horizontal	-45.07	-13.00	32.07	135
4	14196.60	-48.62	5.80	13.10	Horizontal	-41.32	-13.00	28.32	90
5	17745.75	-49.92	6.10	14.20	Horizontal	-41.82	-13.00	28.82	180
6	21294.90	--	--	--	--	--	--	--	--
7	24844.05	--	--	--	--	--	--	--	--
8	28393.20	--	--	--	--	--	--	--	--
9	31942.35	--	--	--	--	--	--	--	--
10	35491.50	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.



NRn 77 subset 2 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7698.36	-58.74	4.20	12.20	Horizontal	-50.74	-13.00	37.74	180
3	11547.54	-49.54	5.90	11.90	Horizontal	-43.54	-13.00	30.54	90
4	15396.72	-53.40	5.80	13.10	Horizontal	-46.10	-13.00	33.10	270
5	19245.90	--	--	--	--	--	--	--	--
6	23095.08	--	--	--	--	--	--	--	--
7	26944.26	--	--	--	--	--	--	--	--
8	30793.44	--	--	--	--	--	--	--	--
9	34642.62	--	--	--	--	--	--	--	--
10	38491.80	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

NRn 77 subset 2 QPSK 60MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7698.36	-58.03	4.20	12.20	Horizontal	-50.03	-13.00	37.03	45
3	11547.54	-50.03	5.90	11.90	Horizontal	-44.03	-13.00	31.03	90
4	15396.72	-54.02	5.80	13.10	Horizontal	-46.72	-13.00	33.72	180
5	19245.90	--	--	--	--	--	--	--	--
6	23095.08	--	--	--	--	--	--	--	--
7	26944.26	--	--	--	--	--	--	--	--
8	30793.44	--	--	--	--	--	--	--	--
9	34642.62	--	--	--	--	--	--	--	--
10	38491.80	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



NRn 77 subset 2 QPSK 100MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7778.28	-58.28	4.20	12.20	Horizontal	-50.28	-13.00	37.28	45
3	11667.42	-49.86	5.90	11.90	Horizontal	-43.86	-13.00	30.86	270
4	15556.56	-52.92	5.80	13.10	Horizontal	-45.62	-13.00	32.62	180
5	19445.70		--	--	--	--	--	--	--
6	23334.84	--	--	--	--	--	--	--	--
7	27223.98	--	--	--	--	--	--	--	--
8	31113.12	--	--	--	--	--	--	--	--
9	35002.26	--	--	--	--	--	--	--	--
10	38891.40	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

**Third Antenna**

LTE Band 66 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3509.00	-66.01	2.70	12.70	Horizontal	-56.01	-13.00	43.01	45
3	5263.60	-65.24	3.20	12.50	Horizontal	-55.94	-13.00	42.94	135
4	7018.20	-43.18	4.20	11.80	Horizontal	-35.58	-13.00	22.58	225
5	8772.60	-53.46	4.40	12.50	Horizontal	-45.36	-13.00	32.36	45
6	10527.00	-49.90	4.70	11.80	Horizontal	-42.80	-13.00	29.80	0
7	12281.50	-53.75	5.20	13.80	Horizontal	-45.15	-13.00	32.15	0
8	14036.00	-47.49	5.70	13.20	Horizontal	-39.99	-13.00	26.99	225
9	15790.50	-54.89	6.10	16.80	Horizontal	-44.19	-13.00	31.19	315
10	17545.00	-50.88	6.10	14.20	Horizontal	-42.78	-13.00	29.78	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

LTE Band 66 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3505.50	-65.22	2.70	12.70	Horizontal	-55.22	-13.00	42.22	45
3	5258.60	-62.92	3.20	12.50	Horizontal	-53.62	-13.00	40.62	135
4	7011.20	-43.23	4.20	11.80	Horizontal	-35.63	-13.00	22.63	225
5	8764.00	-51.94	4.40	12.50	Horizontal	-43.84	-13.00	30.84	45
6	10458.00	-51.77	4.70	11.80	Horizontal	-44.67	-13.00	31.67	90
7	12201.00	-50.22	5.20	13.80	Horizontal	-41.62	-13.00	28.62	180
8	13944.00	-50.72	5.70	13.20	Horizontal	-43.22	-13.00	30.22	180
9	15687.00	-56.02	6.10	16.80	Horizontal	-45.32	-13.00	32.32	0
10	17430.00	-49.43	6.10	14.20	Horizontal	-41.33	-13.00	28.33	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



LTE Band 66 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3492.20	-65.65	2.70	12.70	Horizontal	-55.65	-13.00	42.65	135
3	5238.20	-64.12	3.20	12.50	Horizontal	-54.82	-13.00	41.82	225
4	6984.40	-47.35	4.20	11.80	Horizontal	-39.75	-13.00	26.75	45
5	8730.40	-53.93	4.40	12.50	Horizontal	-45.83	-13.00	32.83	135
6	10418.63	-51.11	4.70	11.80	Horizontal	-44.01	-13.00	31.01	0
7	12455.00	-50.88	5.20	13.80	Horizontal	-42.28	-13.00	29.28	90
8	13891.50	-48.89	5.70	13.20	Horizontal	-41.39	-13.00	28.39	180
9	15627.00	-54.82	6.10	16.80	Horizontal	-44.12	-13.00	31.12	135
10	17364.38	-49.12	6.10	14.20	Horizontal	-41.02	-13.00	28.02	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

NR n41 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5185.98	-64.18	3.20	12.50	Vertical	-54.88	-25.00	29.88	180
3	7778.97	-56.08	4.40	12.30	Vertical	-48.18	-25.00	23.18	225
4	10371.96	-54.43	4.70	11.80	Vertical	-47.33	-25.00	22.33	90
5	12964.95	-51.93	5.40	14.00	Vertical	-43.33	-25.00	18.33	45
6	15557.94	-56.03	6.10	16.80	Vertical	-45.33	-25.00	20.33	180
7	18150.93	--	--	--	--	--	--	--	--
8	20743.92	--	--	--	--	--	--	--	--
9	23336.91	--	--	--	--	--	--	--	--
10	25929.90	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.