Appendix for LTE Band71

FCC ID: 2AC88-GLMU19A02

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Conducted Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
5	LCH	QPSK	1	0	22.46	-0.88	21.58	0.144	3.000
			1	13	22.58	-0.88	21.70	0.148	3.000
			1	24	22.74	-0.88	21.86	0.153	3.000
			12	0	21.71	-0.88	20.83	0.121	3.000
			12	6	21.76	-0.88	20.88	0.122	3.000
			12	13	21.77	-0.88	20.89	0.123	3.000
			25	0	21.83	-0.88	20.95	0.124	3.000
		Q16	1	0	21.33	-0.88	20.45	0.111	3.000
			1	13	21.29	-0.88	20.41	0.110	3.000
			1	24	21.29	-0.88	20.41	0.110	3.000
			12	0	20.78	-0.88	19.90	0.098	3.000
			12	6	20.83	-0.88	19.95	0.099	3.000
			12	13	20.83	-0.88	19.95	0.099	3.000
			25	0	21.07	-0.88	20.19	0.104	3.000
	MCH	QPSK	1	0	22.42	-0.88	21.54	0.143	3.000
			1	13	22.82	-0.88	21.94	0.156	3.000
			1	24	22.68	-0.88	21.80	0.151	3.000
			12	0	21.96	-0.88	21.08	0.128	3.000
			12	6	21.99	-0.88	21.11	0.129	3.000
			12	13	21.97	-0.88	21.09	0.129	3.000
			25	0	21.89	-0.88	21.01	0.126	3.000
		Q16	1	0	21.17	-0.88	20.29	0.107	3.000
			1	13	21.35	-0.88	20.47	0.111	3.000
			1	24	21.15	-0.88	20.27	0.106	3.000
			12	0	20.88	-0.88	20.00	0.100	3.000
			12	6	20.91	-0.88	20.03	0.101	3.000
			12	13	20.8	-0.88	19.92	0.098	3.000
			25	0	20.86	-0.88	19.98	0.100	3.000
	HCH	QPSK	1	0	22.72	-0.88	21.84	0.153	3.000
			1	13	22.87	-0.88	21.99	0.158	3.000
			1	24	22.72	-0.88	21.84	0.153	3.000
			12	0	21.9	-0.88	21.02	0.126	3.000

			12	6	22	-0.88	21.12	0.129	3.000
			12	13	21.81	-0.88	20.93	0.124	3.000
			25	0	21.89	-0.88	21.01	0.126	3.000
		Q16	1	0	21.58	-0.88	20.70	0.117	3.000
			1	13	21.5	-0.88	20.62	0.115	3.000
			1	24	21.55	-0.88	20.67	0.117	3.000
			12	0	20.72	-0.88	19.84	0.096	3.000
			12	6	20.6	-0.88	19.72	0.094	3.000
			12	13	20.67	-0.88	19.79	0.095	3.000
			25	0	20.84	-0.88	19.96	0.099	3.000
10	LCH	QPSK	1	0	22.59	-0.88	21.71	0.148	3.000
			1	25	22.81	-0.88	21.93	0.156	3.000
			1	49	22.6	-0.88	21.72	0.149	3.000
			25	0	21.95	-0.88	21.07	0.128	3.000
			25	13	21.93	-0.88	21.05	0.127	3.000
			25	25	21.85	-0.88	20.97	0.125	3.000
			50	0	21.86	-0.88	20.98	0.125	3.000
		Q16	1	0	21.45	-0.88	20.57	0.114	3.000
			1	25	22.21	-0.88	21.33	0.136	3.000
			1	49	21.92	-0.88	21.04	0.127	3.000
			25	0	20.93	-0.88	20.05	0.101	3.000
			25	13	21.06	-0.88	20.18	0.104	3.000
			25	25	20.93	-0.88	20.05	0.101	3.000
			50	0	20.81	-0.88	19.93	0.098	3.000
	MCH	QPSK	1	0	22.88	-0.88	22.00	0.158	3.000
			1	25	23.49	-0.88	22.61	0.182	3.000
			1	49	22.74	-0.88	21.86	0.153	3.000
			25	0	21.95	-0.88	21.07	0.128	3.000
			25	13	22.07	-0.88	21.19	0.132	3.000
			25	25	21.95	-0.88	21.07	0.128	3.000
			50	0	21.93	-0.88	21.05	0.127	3.000
		Q16	1	0	21.59	-0.88	20.71	0.118	3.000
			1	25	22.46	-0.88	21.58	0.144	3.000
			1	49	22.27	-0.88	21.39	0.138	3.000
			25	0	20.97	-0.88	20.09	0.102	3.000
			25	13	21.07	-0.88	20.19	0.104	3.000
			25	25	20.84	-0.88	19.96	0.099	3.000
			50	0	21.06	-0.88	20.18	0.104	3.000
	HCH	QPSK	1	0	22.75	-0.88	21.87	0.154	3.000
			1	25	22.96	-0.88	22.08	0.161	3.000

			1	49	22.87	-0.88	21.99	0.158	3.000
			25	0	21.94	-0.88	21.06	0.128	3.000
			25	13	22.01	-0.88	21.13	0.130	3.000
			25	25	22.01	-0.88	21.13	0.130	3.000
			50	0	21.95	-0.88	21.07	0.128	3.000
		Q16	1	0	22.06	-0.88	21.18	0.131	3.000
			1	25	22.02	-0.88	21.14	0.130	3.000
			1	49	21.86	-0.88	20.98	0.125	3.000
			25	0	20.96	-0.88	20.08	0.102	3.000
			25	13	21.08	-0.88	20.20	0.105	3.000
			25	25	20.94	-0.88	20.06	0.101	3.000
			50	0	20.89	-0.88	20.01	0.100	3.000
15	LCH	QPSK	1	0	22.62	-0.88	21.74	0.149	3.000
			1	38	22.9	-0.88	22.02	0.159	3.000
			1	74	22.72	-0.88	21.84	0.153	3.000
			36	0	21.82	-0.88	20.94	0.124	3.000
			36	19	21.98	-0.88	21.10	0.129	3.000
			36	39	21.85	-0.88	20.97	0.125	3.000
			75	0	21.85	-0.88	20.97	0.125	3.000
		Q16	1	0	21.49	-0.88	20.61	0.115	3.000
			1	38	22.01	-0.88	21.13	0.130	3.000
			1	74	21.71	-0.88	20.83	0.121	3.000
			36	0	20.87	-0.88	19.99	0.100	3.000
			36	19	20.94	-0.88	20.06	0.101	3.000
			36	39	20.82	-0.88	19.94	0.099	3.000
			75	0	20.82	-0.88	19.94	0.099	3.000
	MCH	QPSK	1	0	22.66	-0.88	21.78	0.151	3.000
			1	38	22.98	-0.88	22.10	0.162	3.000
			1	74	22.72	-0.88	21.84	0.153	3.000
			36	0	22	-0.88	21.12	0.129	3.000
			36	19	22.1	-0.88	21.22	0.132	3.000
			36	39	21.9	-0.88	21.02	0.126	3.000
			75	0	21.95	-0.88	21.07	0.128	3.000
		Q16	1	0	22	-0.88	21.12	0.129	3.000
			1	38	22.33	-0.88	21.45	0.140	3.000
			1	74	22.32	-0.88	21.44	0.139	3.000
			36	0	20.99	-0.88	20.11	0.103	3.000
			36	19	21.02	-0.88	20.14	0.103	3.000
			36	39	20.91	-0.88	20.03	0.101	3.000
			75	0	20.96	-0.88	20.08	0.102	3.000

	HCH	QPSK	1	0	22.81	-0.88	21.93	0.156	3.000
			1	38	22.85	-0.88	21.97	0.157	3.000
			1	74	22.79	-0.88	21.91	0.155	3.000
			36	0	21.92	-0.88	21.04	0.127	3.000
			36	19	22.06	-0.88	21.18	0.131	3.000
			36	39	21.95	-0.88	21.07	0.128	3.000
			75	0	21.9	-0.88	21.02	0.126	3.000
		Q16	1	0	22.68	-0.88	21.80	0.151	3.000
			1	38	22.89	-0.88	22.01	0.159	3.000
			1	74	22.72	-0.88	21.84	0.153	3.000
			36	0	20.84	-0.88	19.96	0.099	3.000
			36	19	20.89	-0.88	20.01	0.100	3.000
			36	39	20.88	-0.88	20.00	0.100	3.000
			75	0	20.87	-0.88	19.99	0.100	3.000
20	LCH	QPSK	1	0	22.3	-0.88	21.42	0.139	3.000
			1	50	22.83	-0.88	21.95	0.157	3.000
			1	99	22.72	-0.88	21.84	0.153	3.000
			50	0	21.87	-0.88	20.99	0.126	3.000
			50	25	22.01	-0.88	21.13	0.130	3.000
			50	50	21.92	-0.88	21.04	0.127	3.000
			100	0	21.9	-0.88	21.02	0.126	3.000
		Q16	1	0	21.72	-0.88	20.84	0.121	3.000
			1	50	21.82	-0.88	20.94	0.124	3.000
			1	99	21.46	-0.88	20.58	0.114	3.000
			50	0	20.96	-0.88	20.08	0.102	3.000
			50	25	21	-0.88	20.12	0.103	3.000
			50	50	21.01	-0.88	20.13	0.103	3.000
			100	0	20.89	-0.88	20.01	0.100	3.000
	MCH	QPSK	1	0	22.93	-0.88	22.05	0.160	3.000
			1	50	23.39	-0.88	22.51	0.178	3.000
			1	99	23.05	-0.88	22.17	0.165	3.000
			50	0	21.99	-0.88	21.11	0.129	3.000
			50	25	22.09	-0.88	21.21	0.132	3.000
			50	50	22.04	-0.88	21.16	0.131	3.000
			100	0	22.07	-0.88	21.19	0.132	3.000
		Q16	1	0	21.66	-0.88	20.78	0.120	3.000
			1	50	22	-0.88	21.12	0.129	3.000
			1	99	21.47	-0.88	20.59	0.115	3.000
			50	0	21	-0.88	20.12	0.103	3.000
			50	25	21.09	-0.88	20.21	0.105	3.000

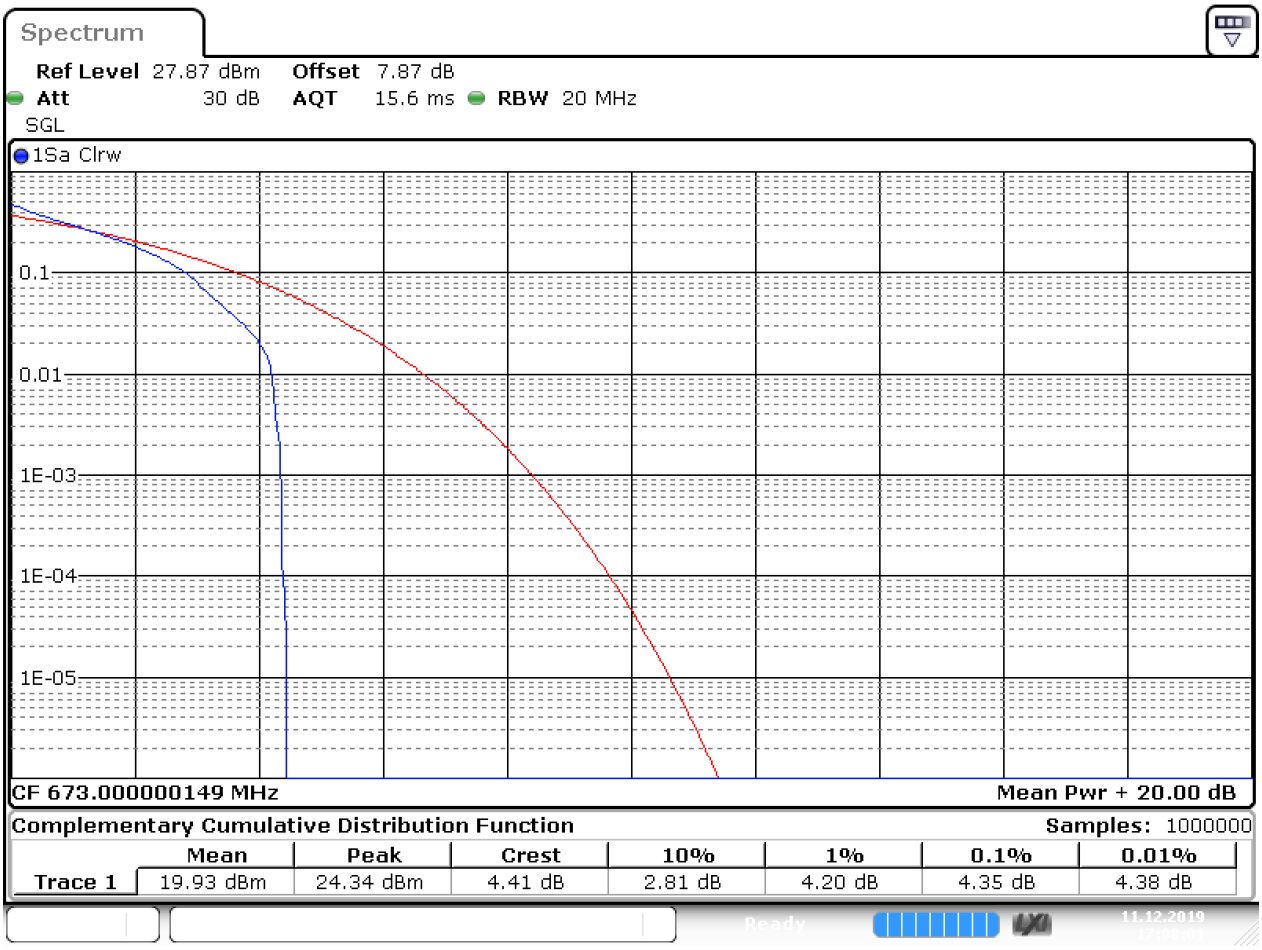
			50	50	20.93	-0.88	20.05	0.101	3.000
			100	0	20.94	-0.88	20.06	0.101	3.000
	HCH	QPSK	1	0	22.54	-0.88	21.66	0.147	3.000
			1	50	23.43	-0.88	22.55	0.180	3.000
			1	99	22.88	-0.88	22.00	0.158	3.000
			50	0	21.97	-0.88	21.09	0.129	3.000
			50	25	22.04	-0.88	21.16	0.131	3.000
			50	50	22.02	-0.88	21.14	0.130	3.000
			100	0	22	-0.88	21.12	0.129	3.000
		Q16	1	0	21.47	-0.88	20.59	0.115	3.000
			1	50	22.49	-0.88	21.61	0.145	3.000
			1	99	21.27	-0.88	20.39	0.109	3.000
			50	0	20.82	-0.88	19.94	0.099	3.000
			50	25	20.99	-0.88	20.11	0.103	3.000
			50	50	20.86	-0.88	19.98	0.100	3.000
			100	0	20.86	-0.88	19.98	0.100	3.000

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

LTE Peak to Average Ratio(NTNV)(Subtest:1, Channel:133222, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

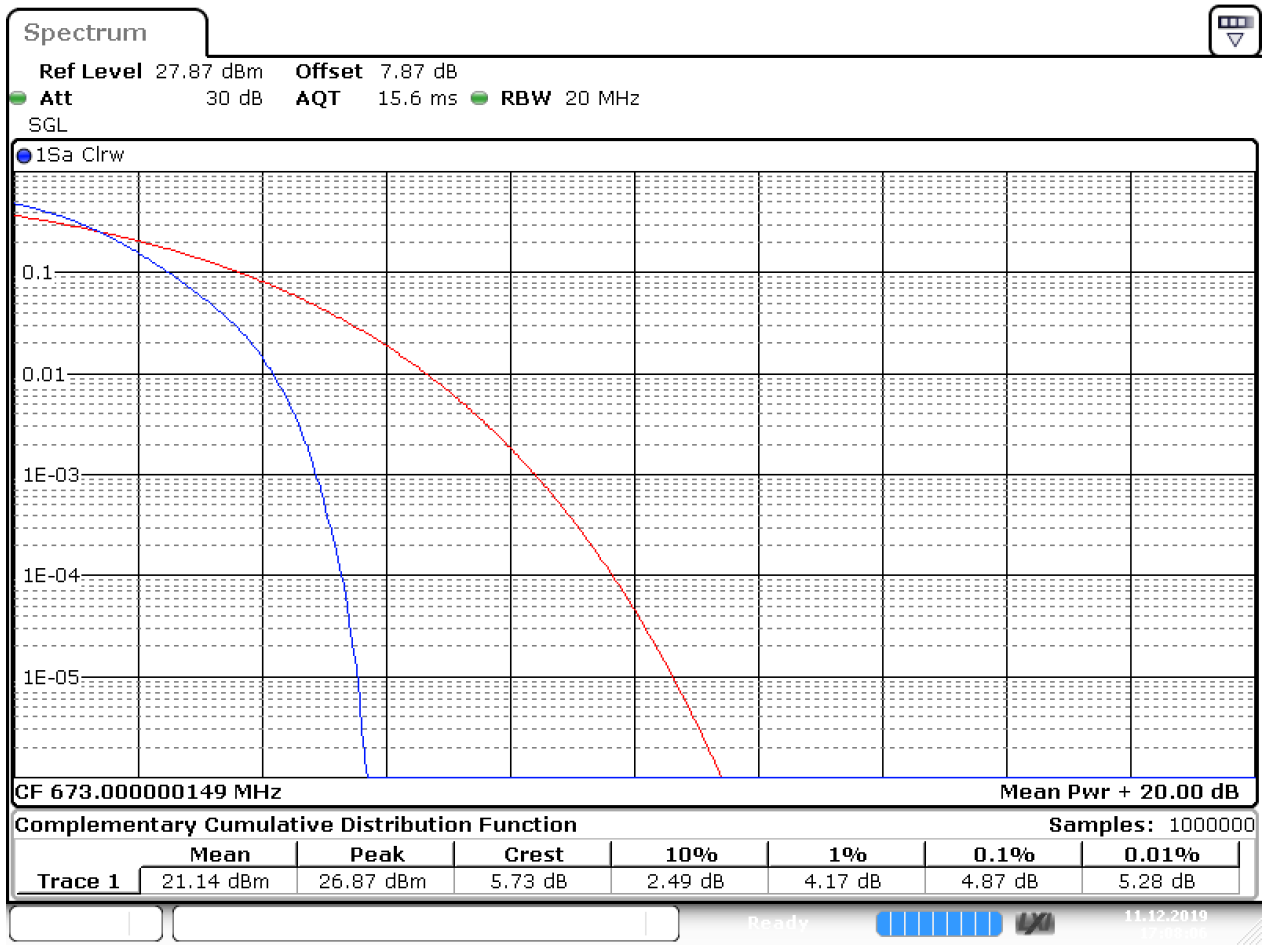
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
673	0.1	4.35	13	Pass



Date: 11.DEC.2019 17:08:01

2.2. LTE Peak to Average Ratio(NTNV)(Subtest:2, Channel:133222, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

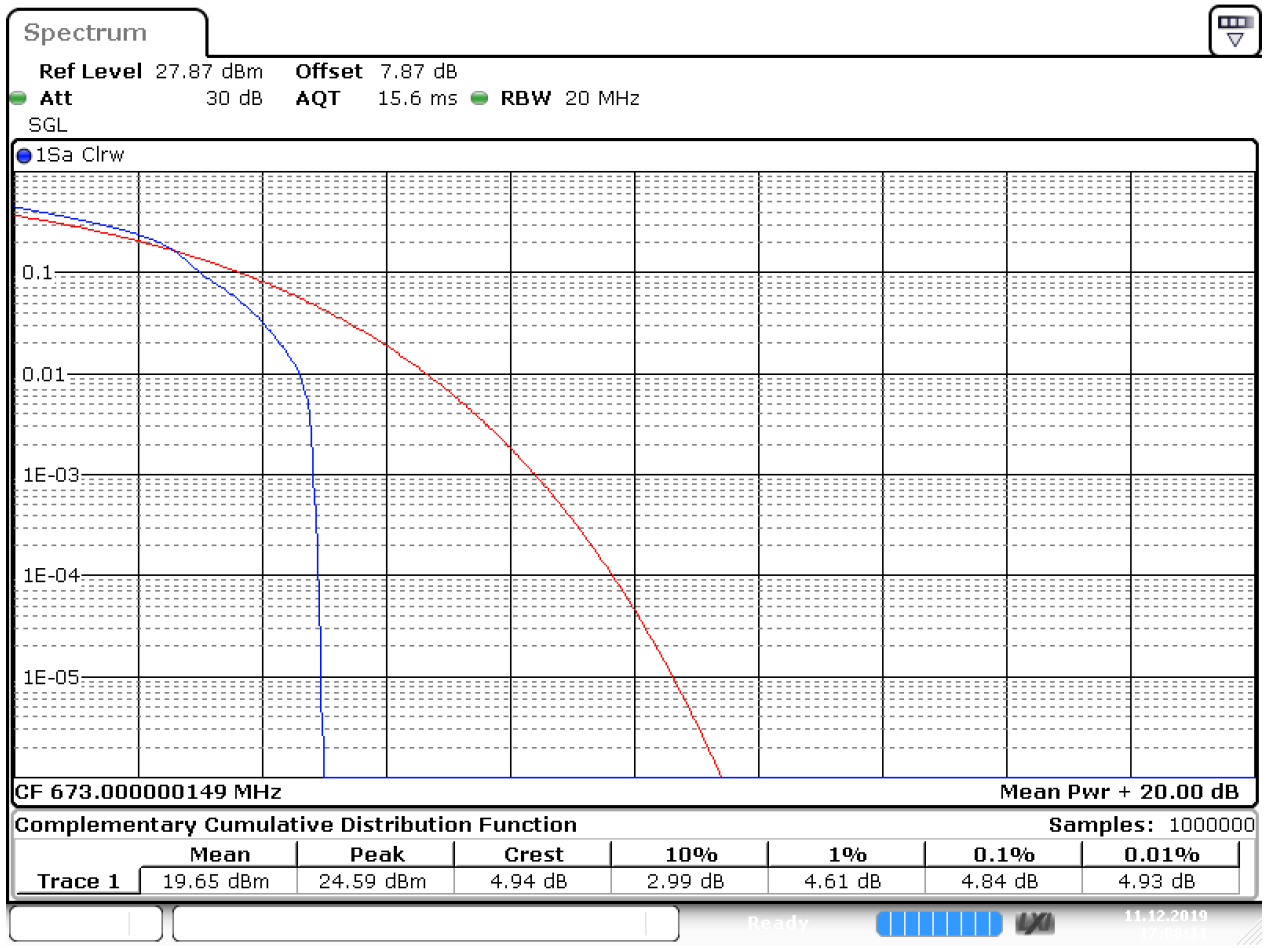
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
673	0.1	4.87	13	Pass



Date: 11.DEC.2019 17:08:06

2.3. LTE Peak to Average Ratio(NTNV)(Subtest:3, Channel:133222, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

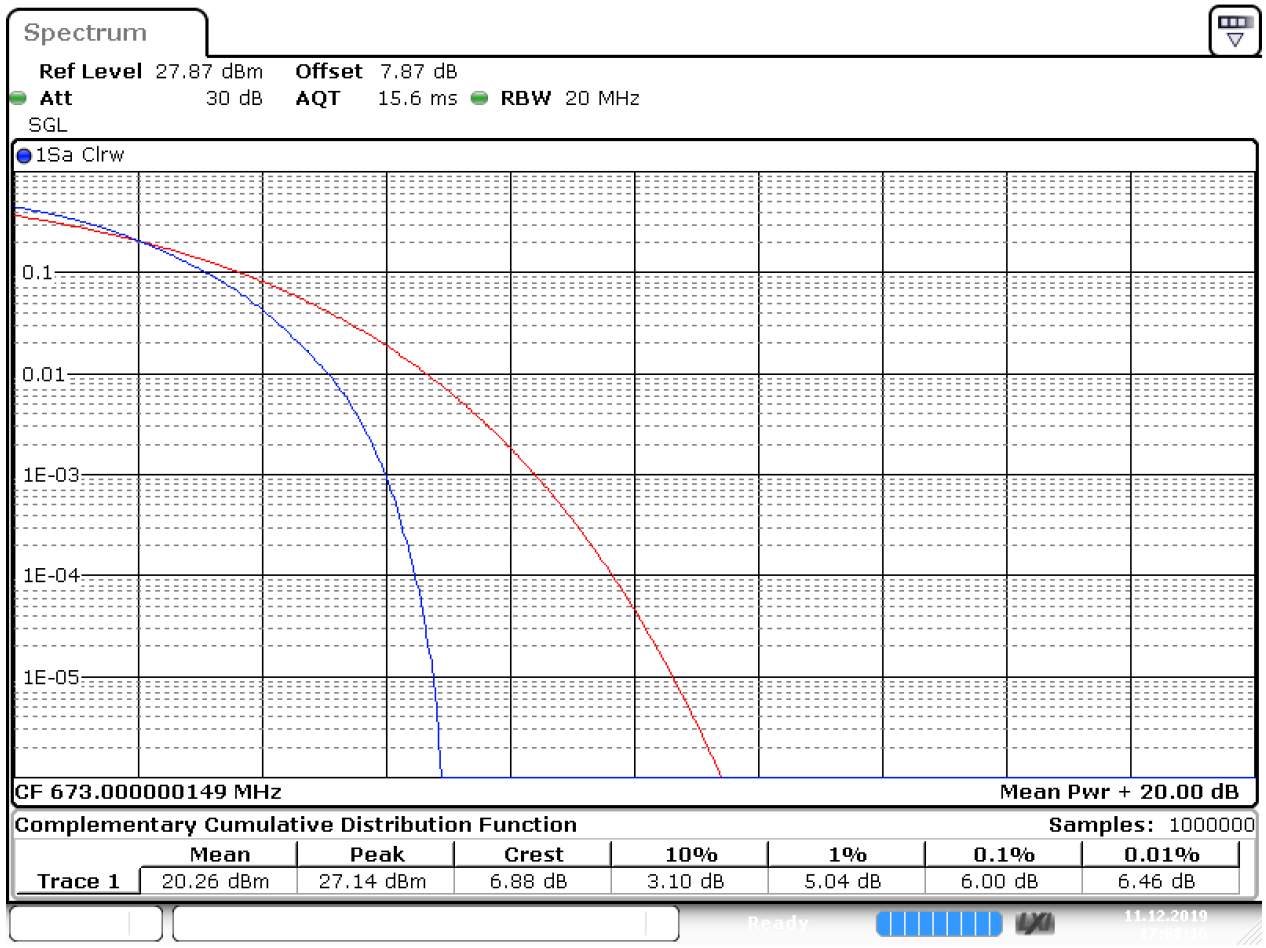
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
673	0.1	4.84	13	Pass



Date: 11.DEC.2019 17:08:12

2.4. LTE Peak to Average Ratio(NTNV)(Subtest:4, Channel:133222, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

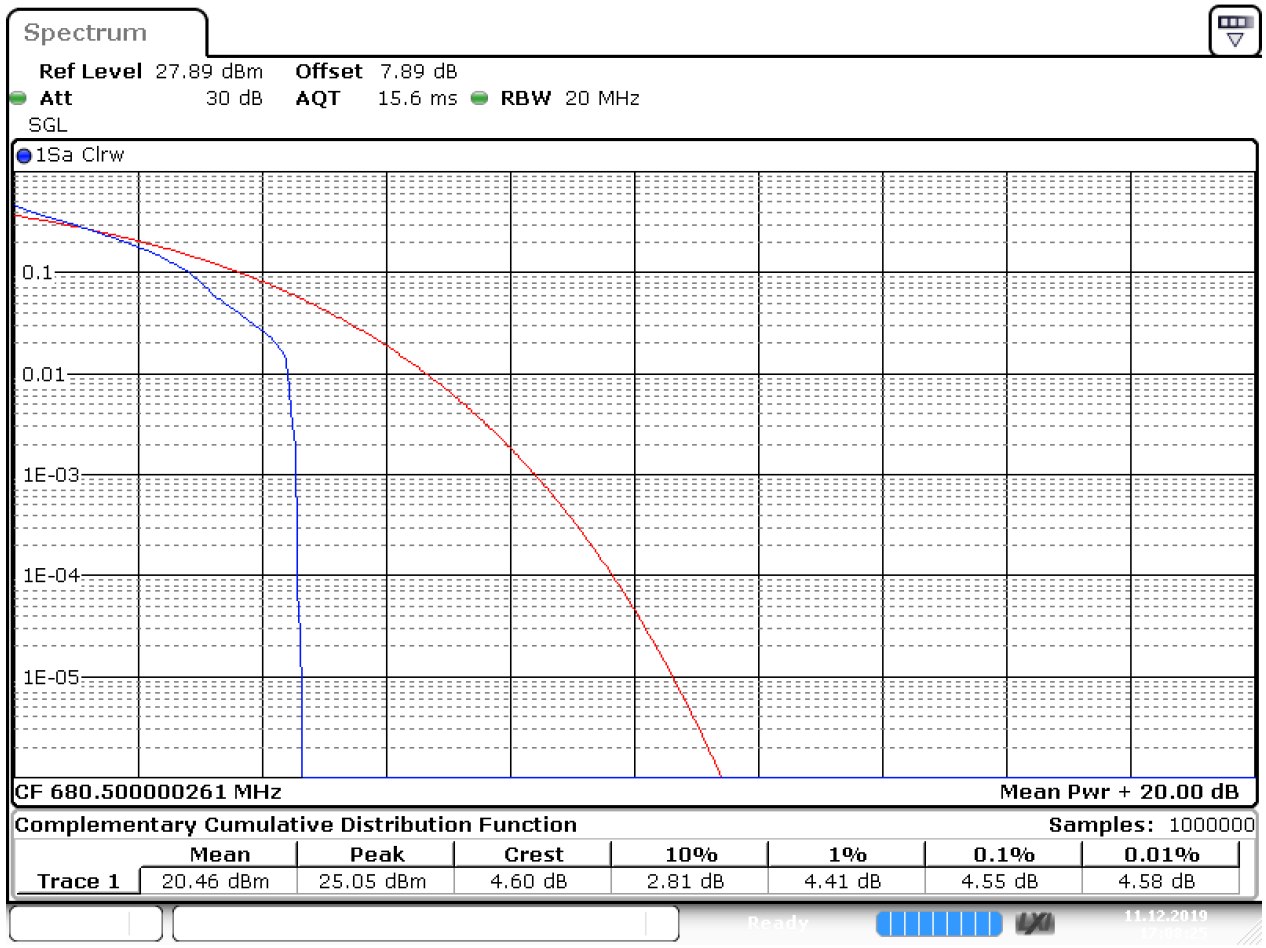
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
673	0.1	6	13	Pass



Date: 11.DEC.2019 17:08:17

2.5. LTE Peak to Average Ratio(NTNV)(Subtest:5, Channel:133297, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

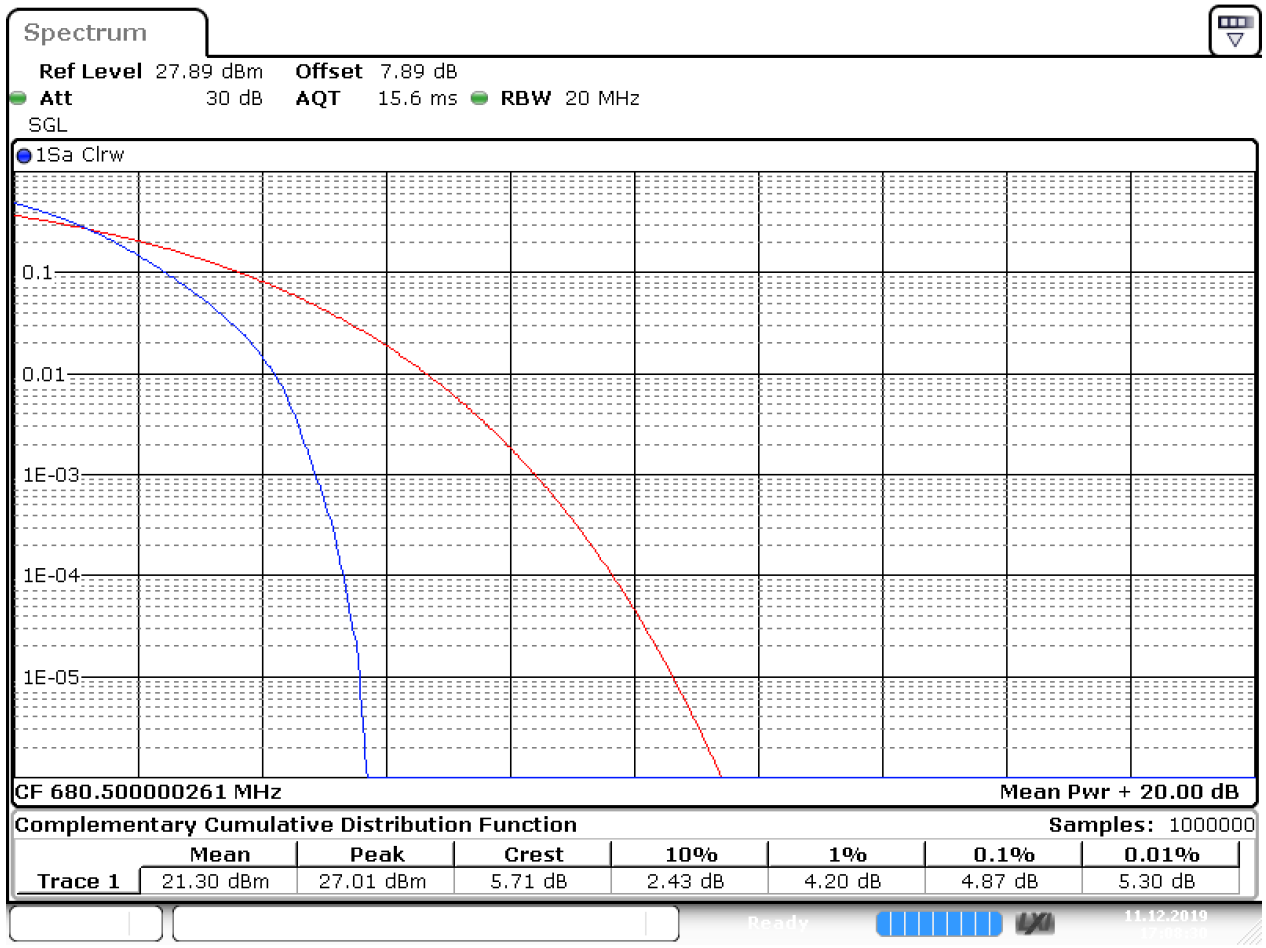
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
680.5	0.1	4.55	13	Pass



Date: 11.DEC.2019 17:08:25

2.6. LTE Peak to Average Ratio(NTNV)(Subtest:6, Channel:133297, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

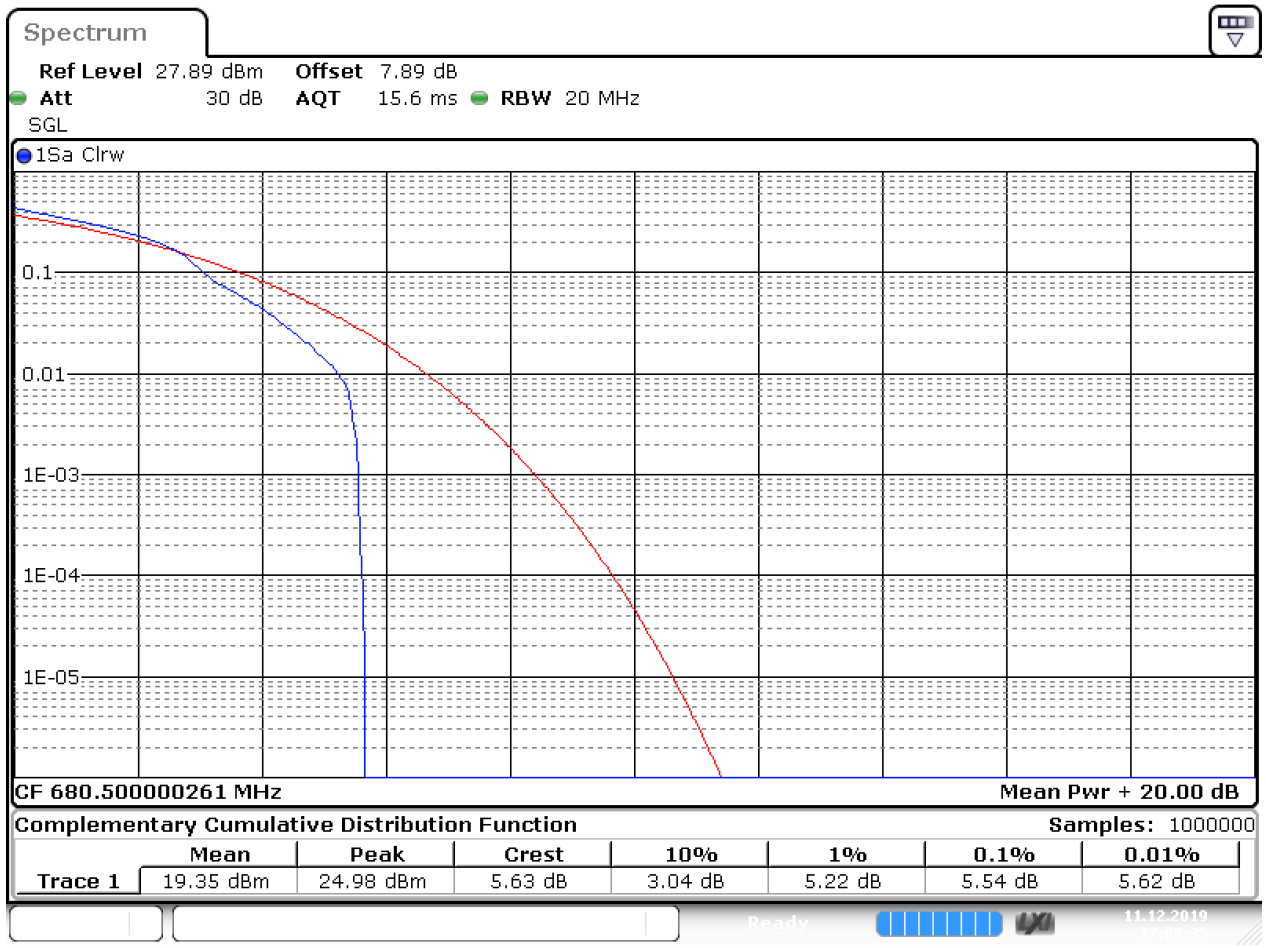
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
680.5	0.1	4.87	13	Pass



Date: 11.DEC.2019 17:08:31

2.7. LTE Peak to Average Ratio(NTNV)(Subtest:7, Channel:133297, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

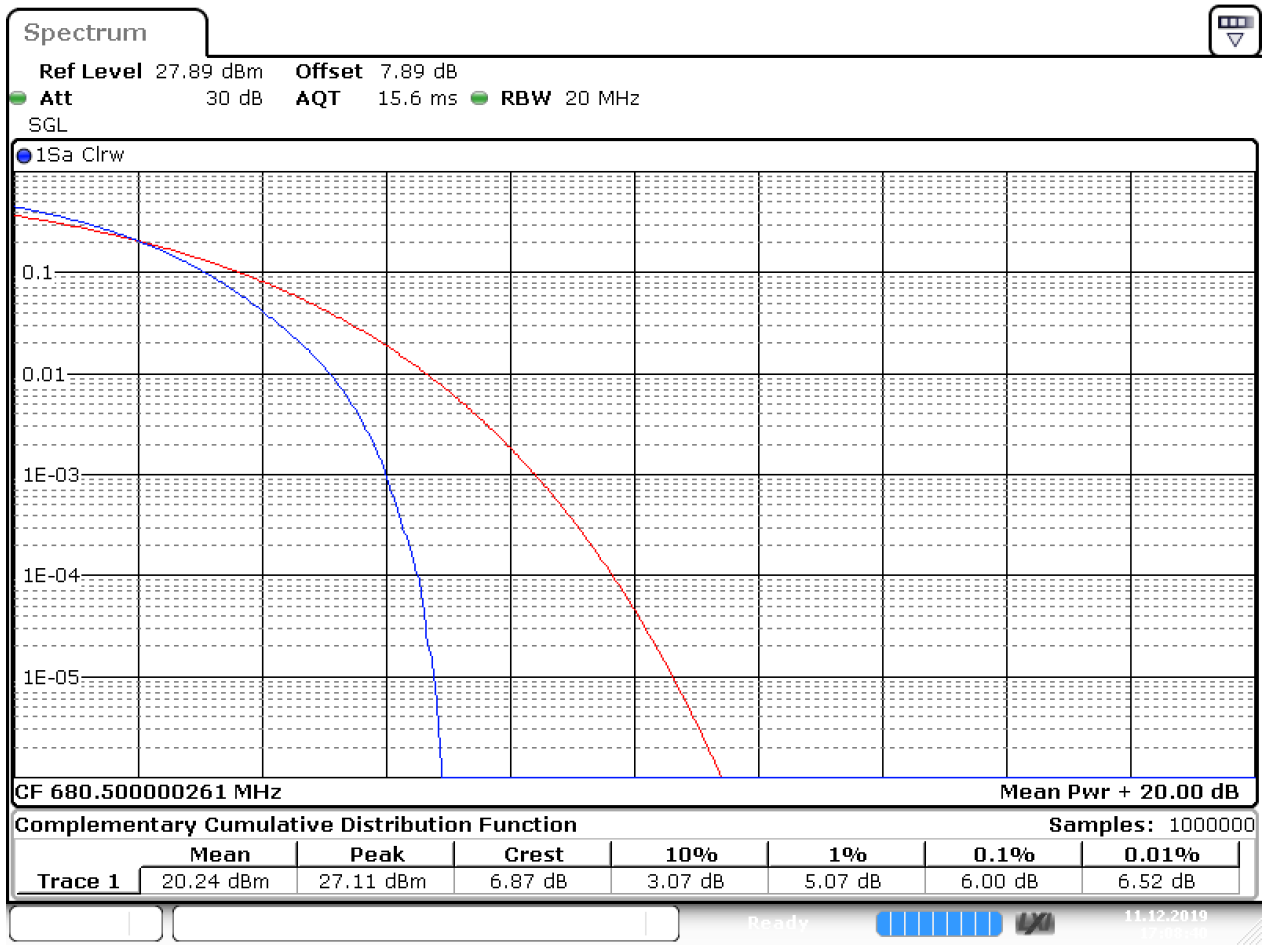
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
680.5	0.1	5.54	13	Pass



Date: 11.DEC.2019 17:08:36

2.8. LTE Peak to Average Ratio(NTNV)(Subtest:8, Channel:133297, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

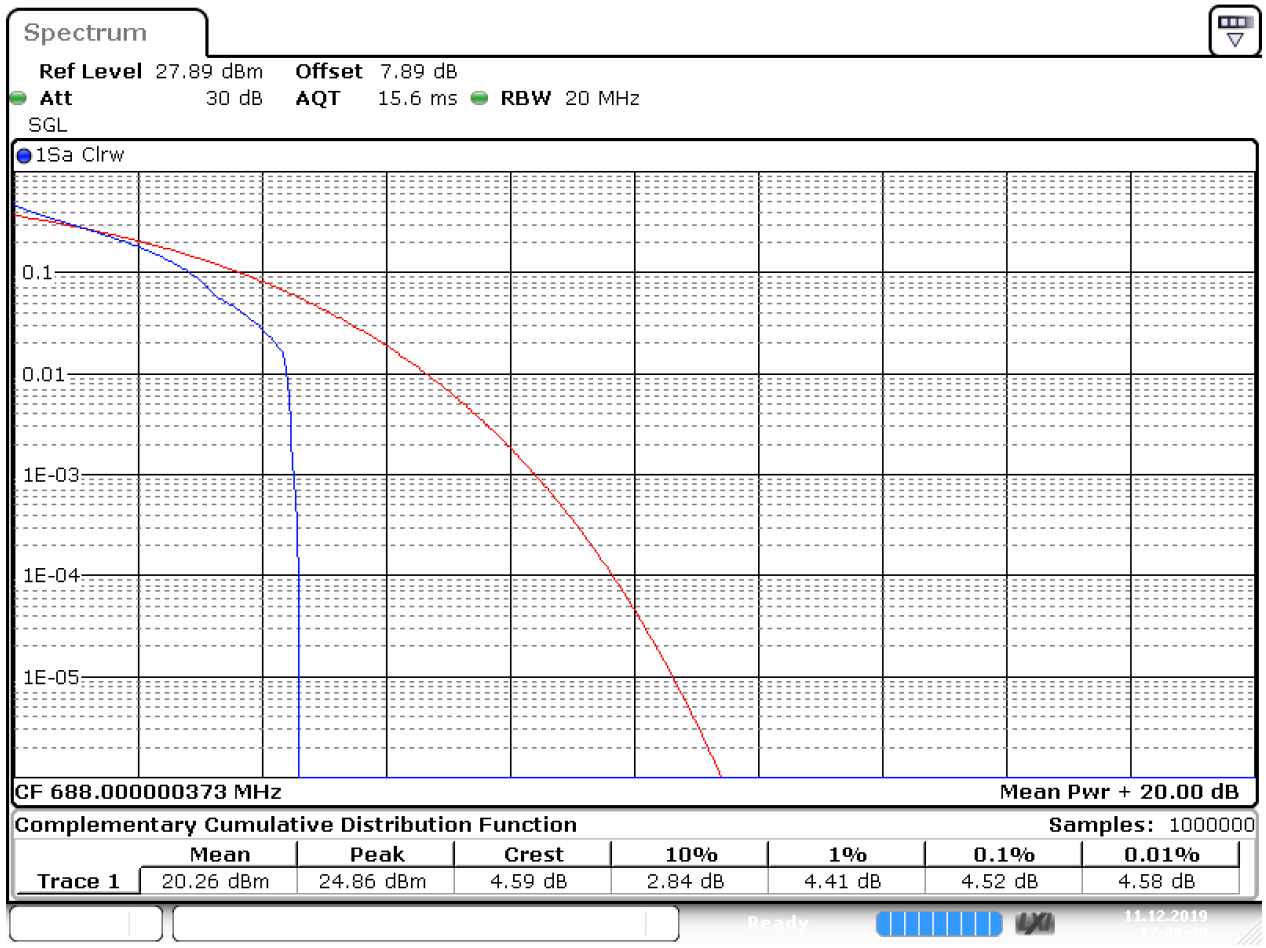
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
680.5	0.1	6	13	Pass



Date: 11.DEC.2019 17:08:41

2.9. LTE Peak to Average Ratio(NTNV)(Subtest:9, Channel:133372, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

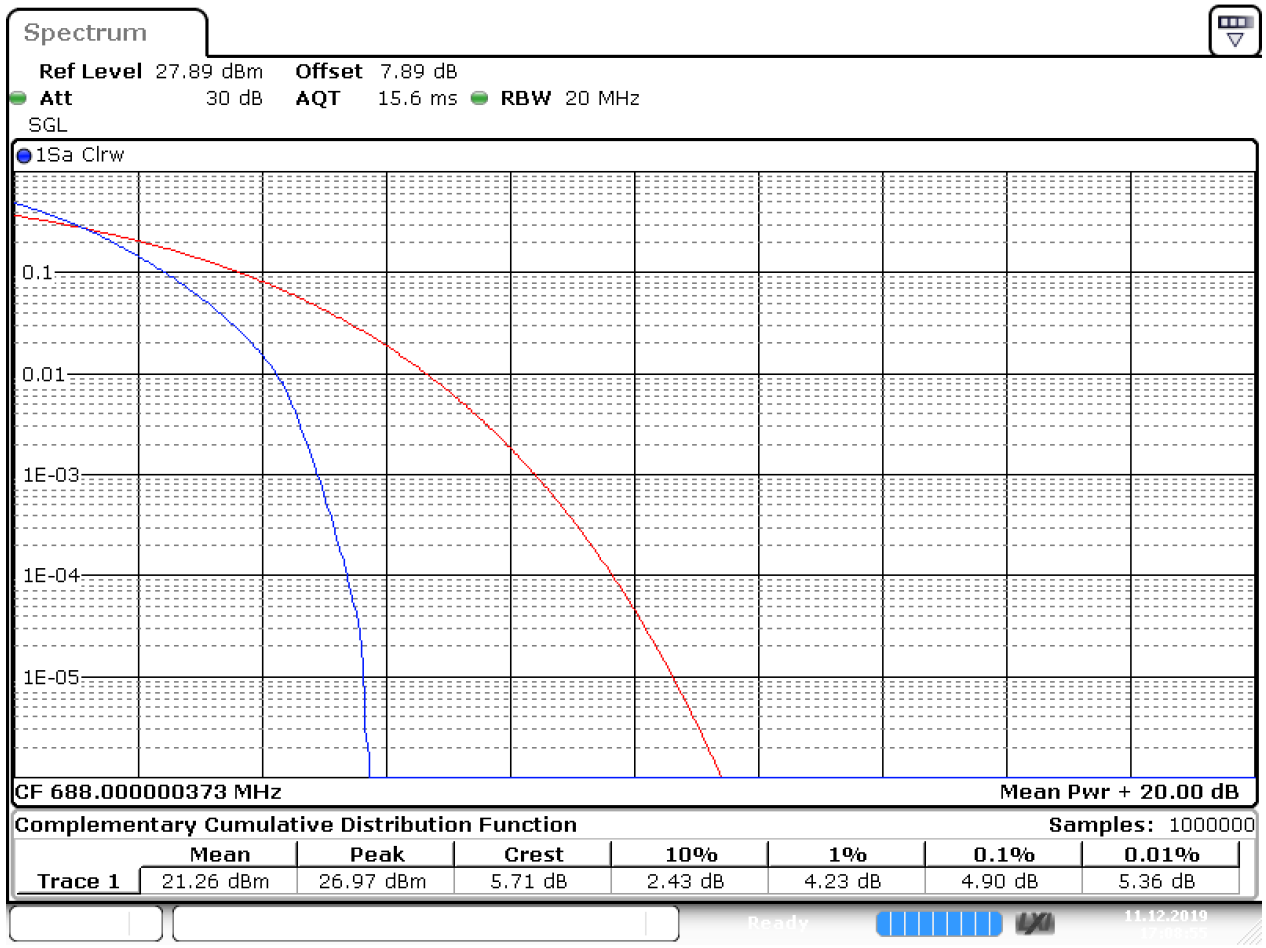
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
688	0.1	4.52	13	Pass



Date: 11.DEC.2019 17:08:50

2.10. LTE Peak to Average Ratio(NTNV)(Subtest:10, Channel:133372, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

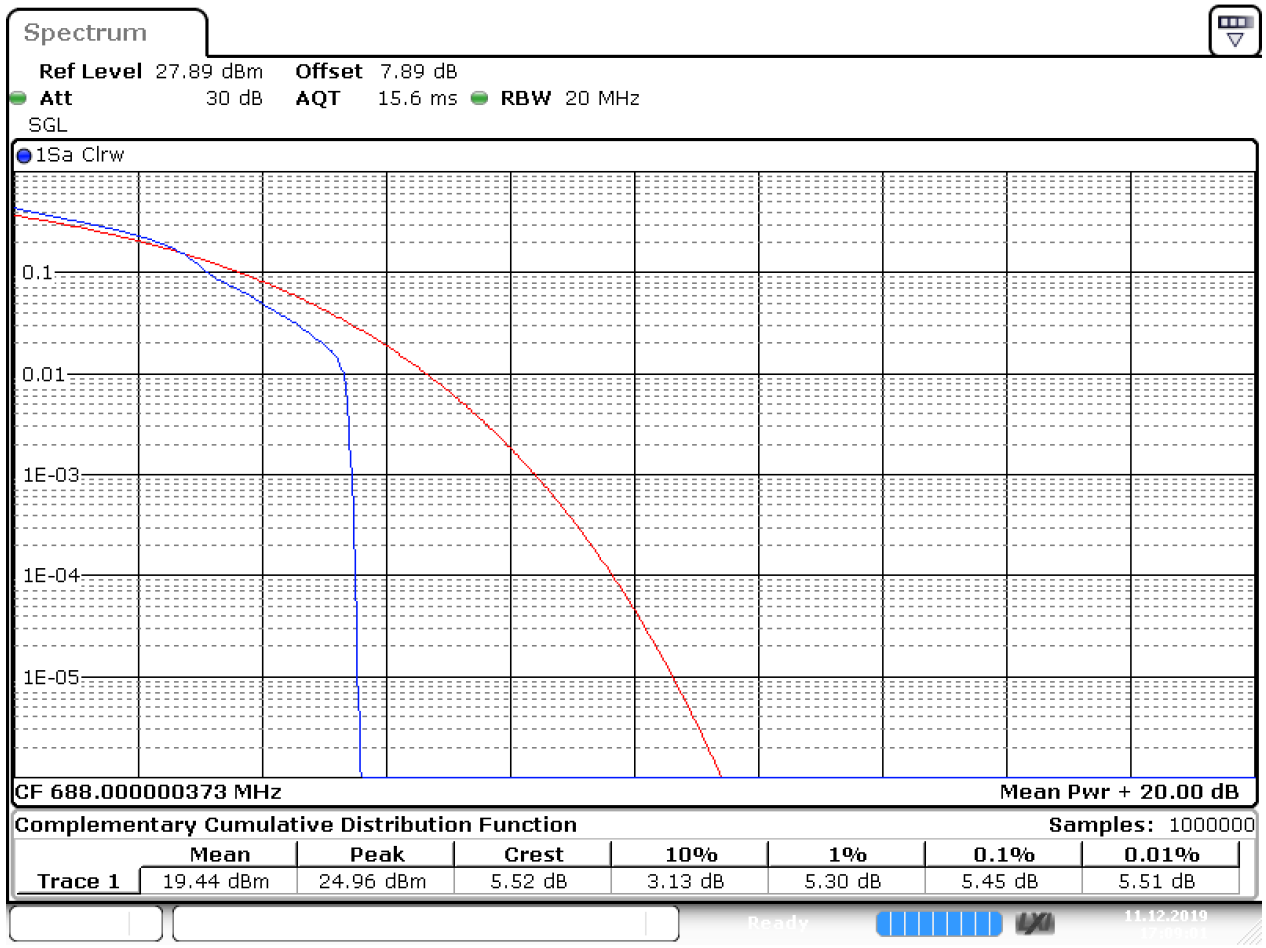
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
688	0.1	4.9	13	Pass



Date: 11.DEC.2019 17:08:55

2.11. LTE Peak to Average Ratio(NTNV)(Subtest:11, Channel:133372, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

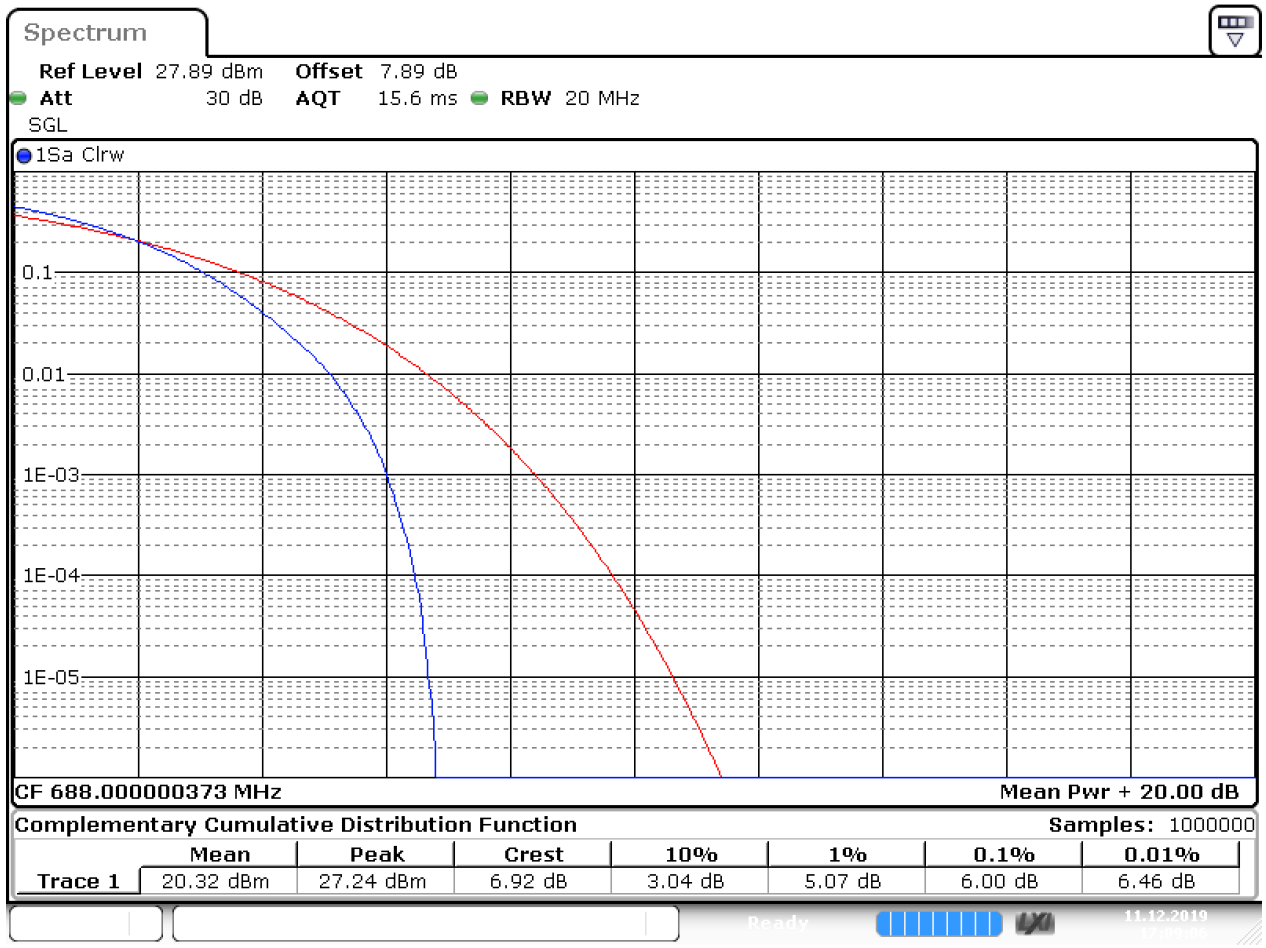
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
688	0.1	5.45	13	Pass



Date: 11.DEC.2019 17:09:00

2.12. LTE Peak to Average Ratio(NTNV)(Subtest:12, Channel:133372, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
688	0.1	6	13	Pass



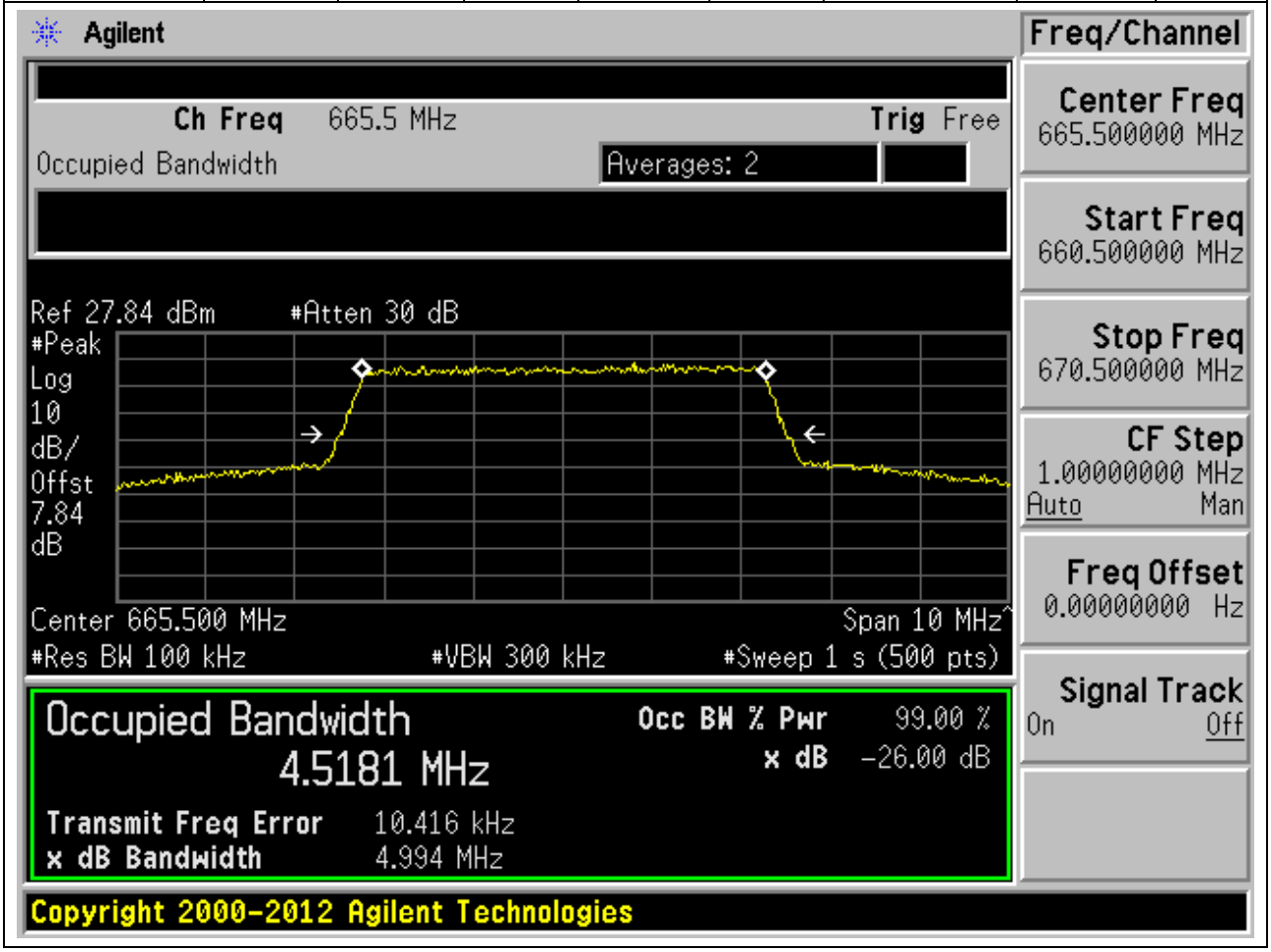
Date: 11.DEC.2019 17:09:06

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

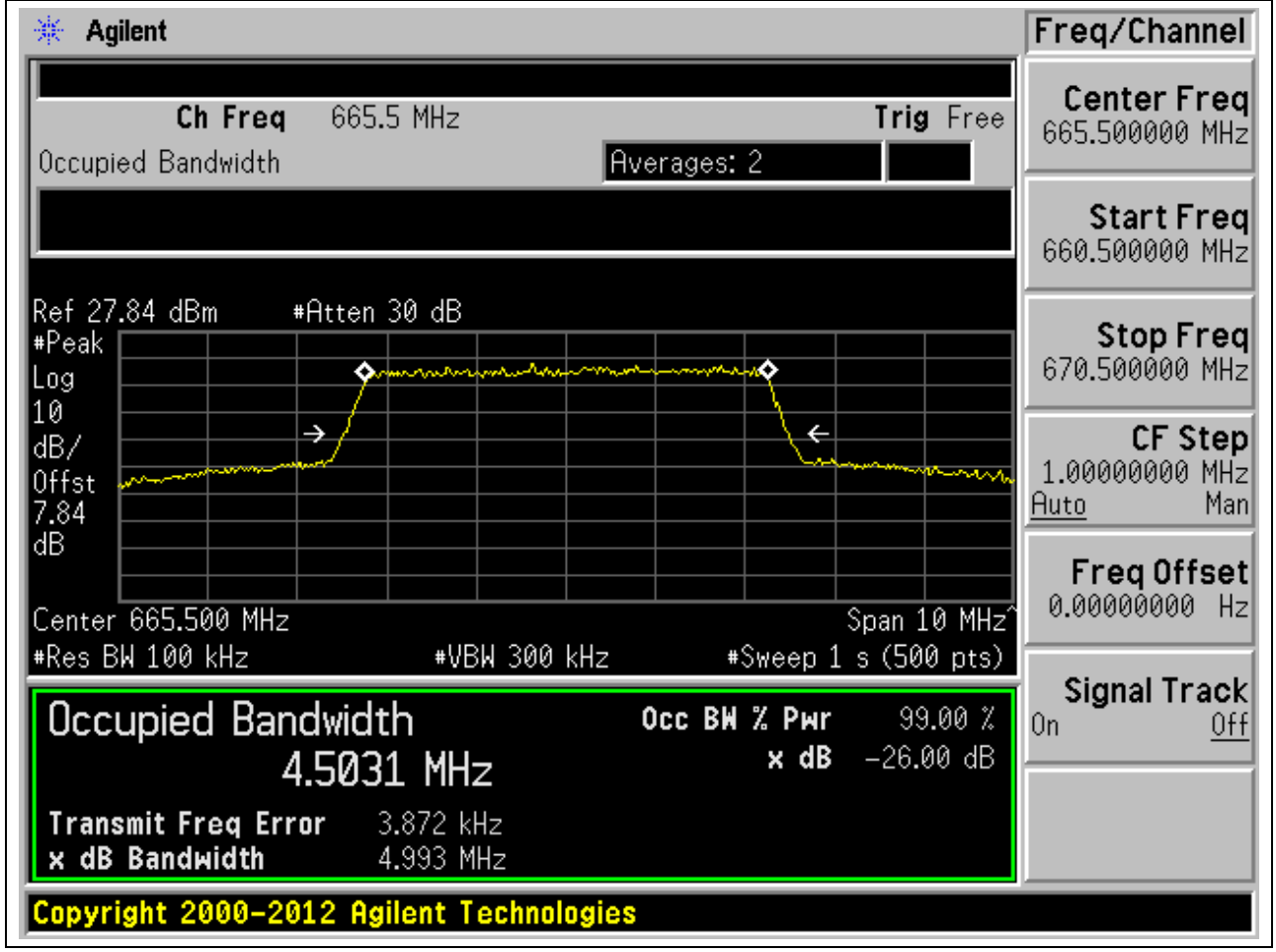
2.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:133147, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
665.5	99	26	0.1	Peak	4.52	4.99	5	Pass



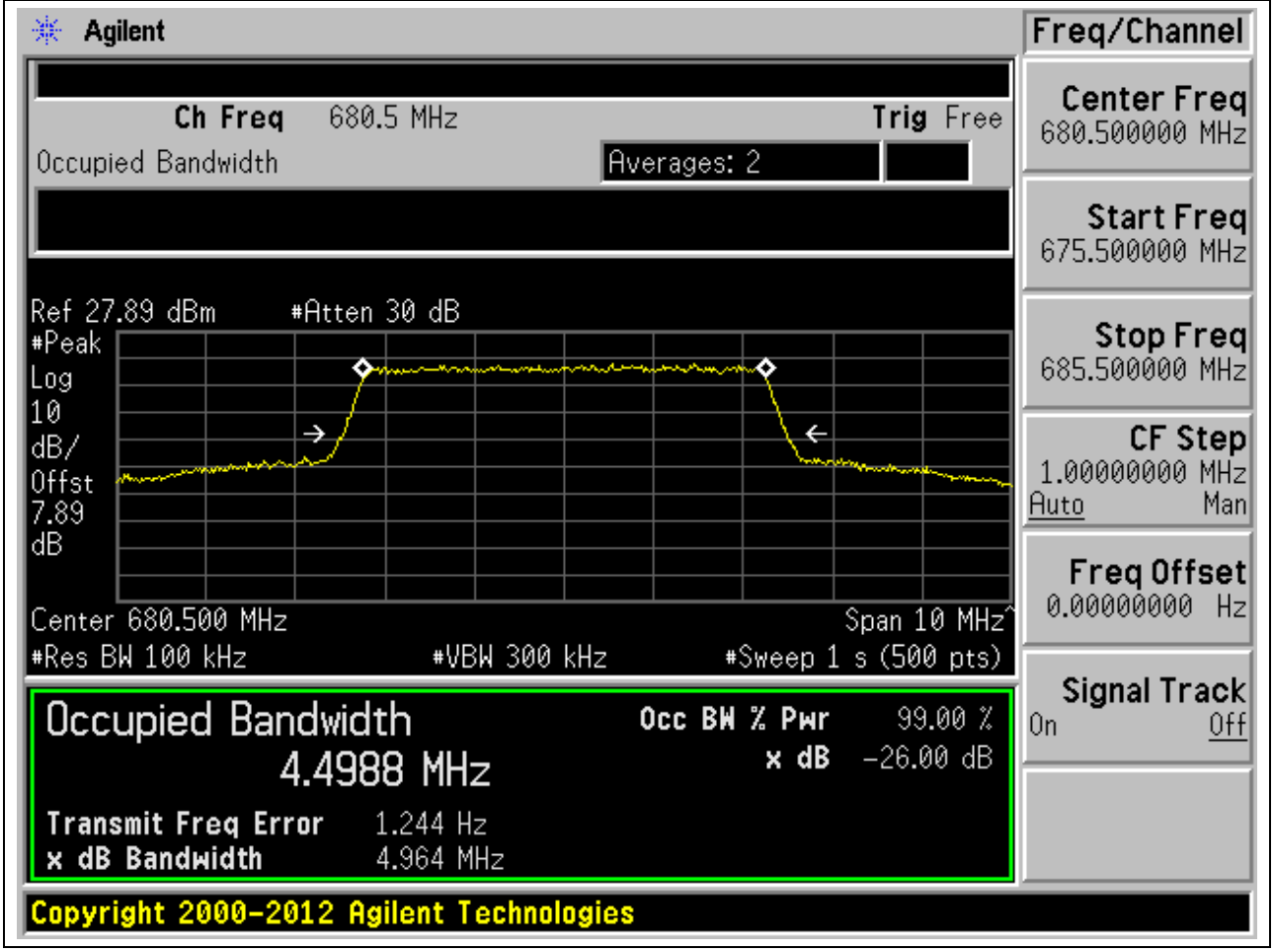
2.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:133147, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
665.5	99	26	0.1	Peak	4.5	4.99	5	Pass



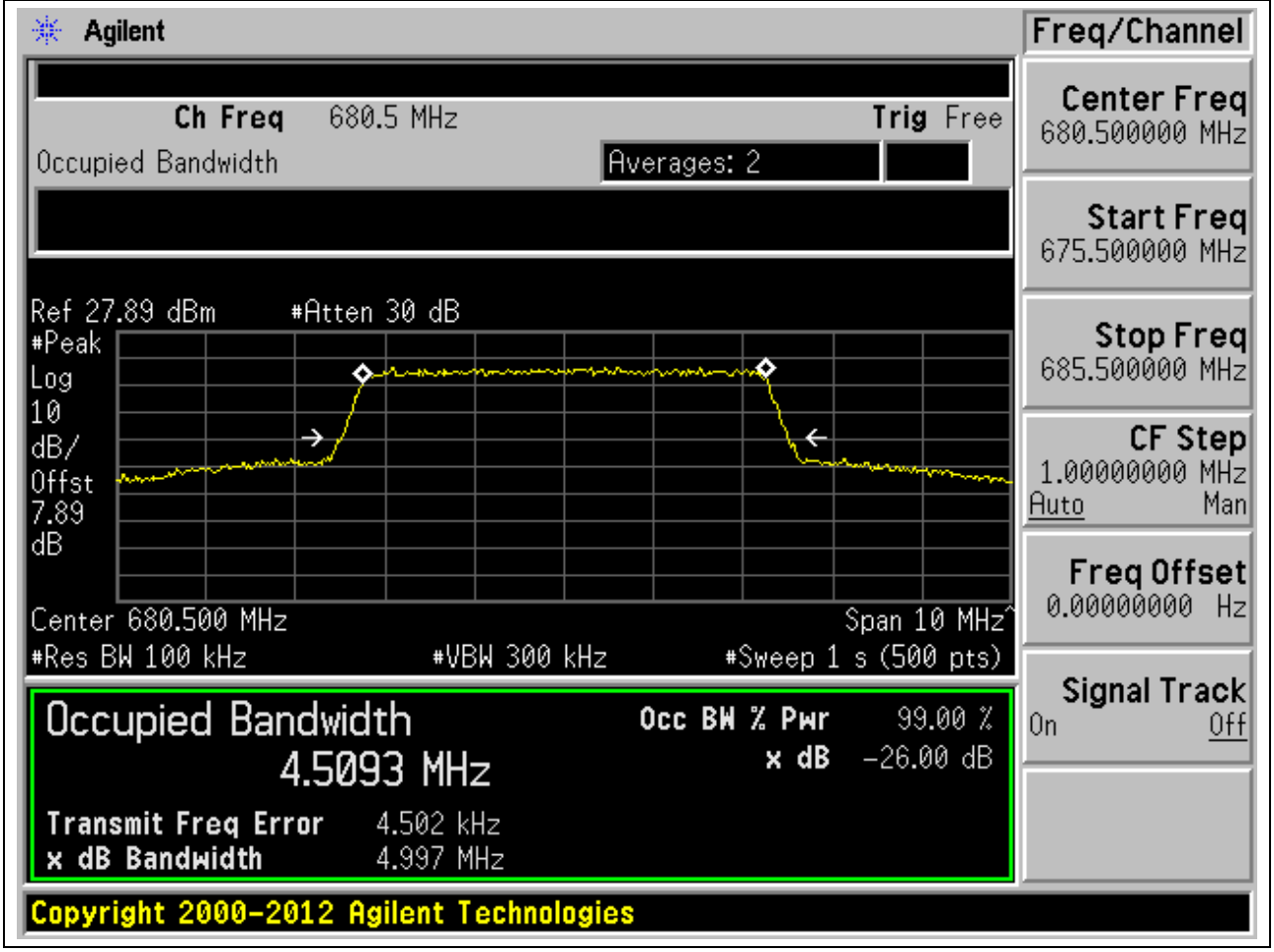
2.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:133297, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
680.5	99	26	0.1	Peak	4.5	4.96	5	Pass



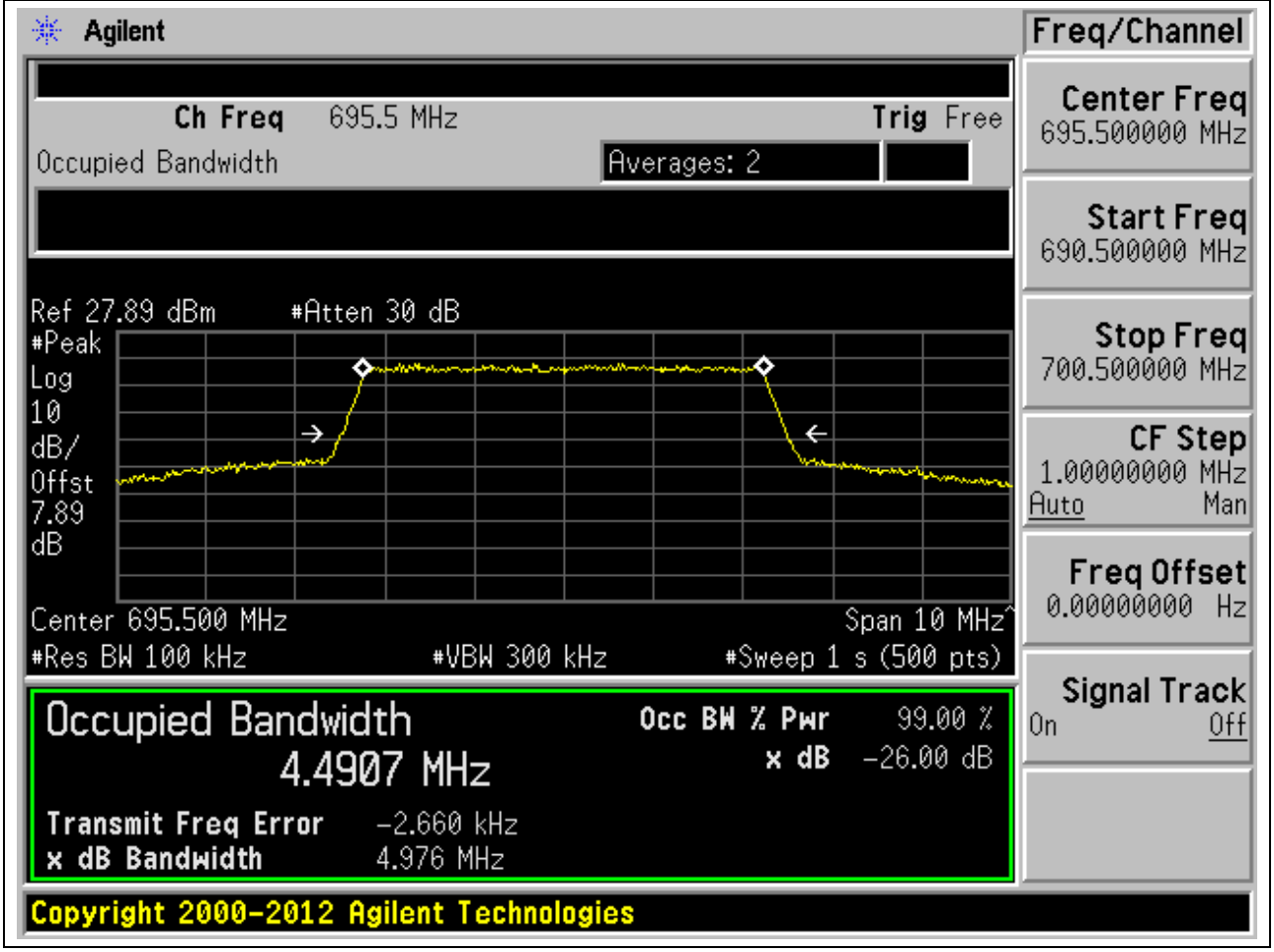
2.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:133297, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
680.5	99	26	0.1	Peak	4.51	5	5	Pass



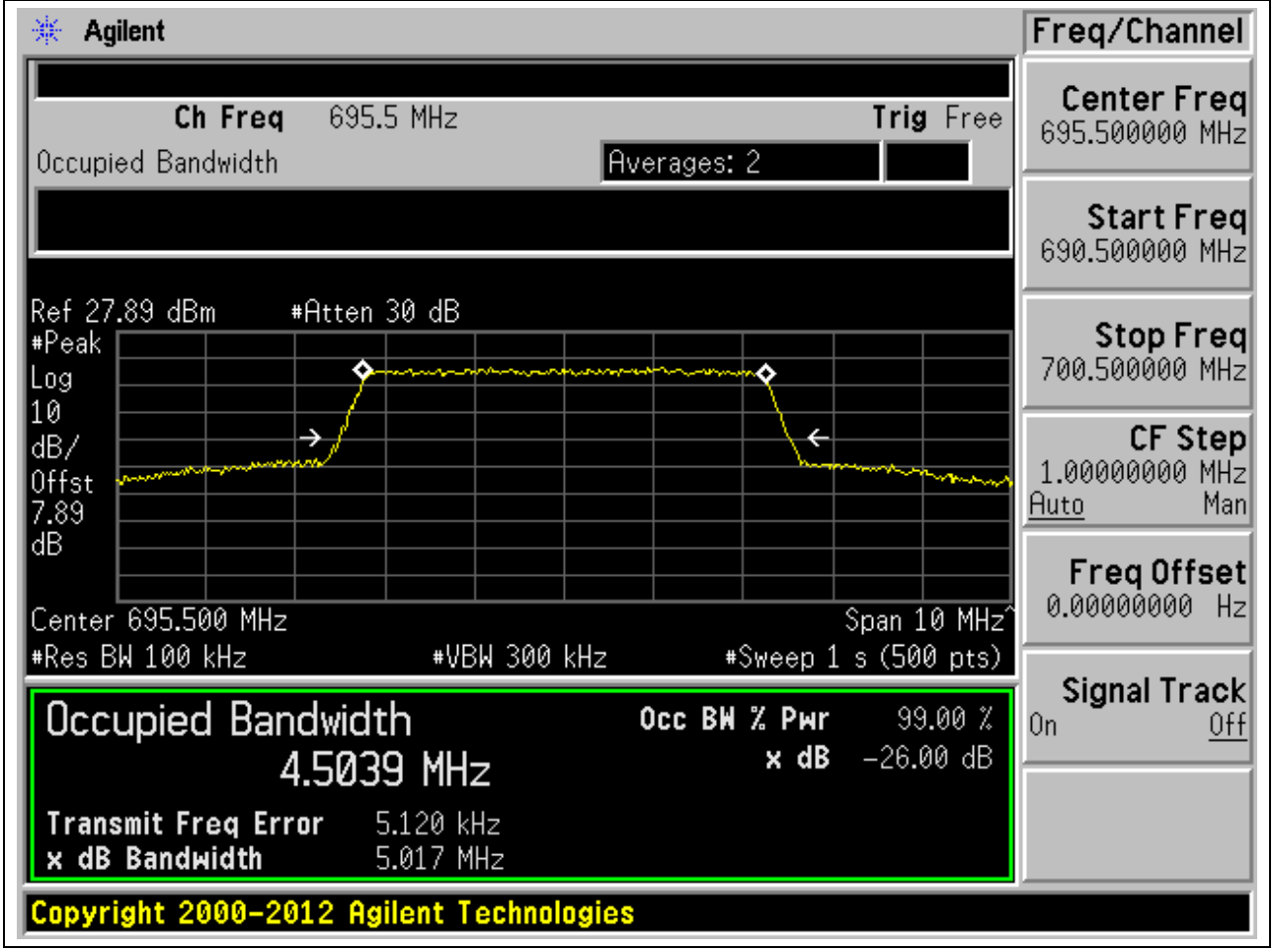
2.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:133447, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
695.5	99	26	0.1	Peak	4.49	4.98	5	Pass



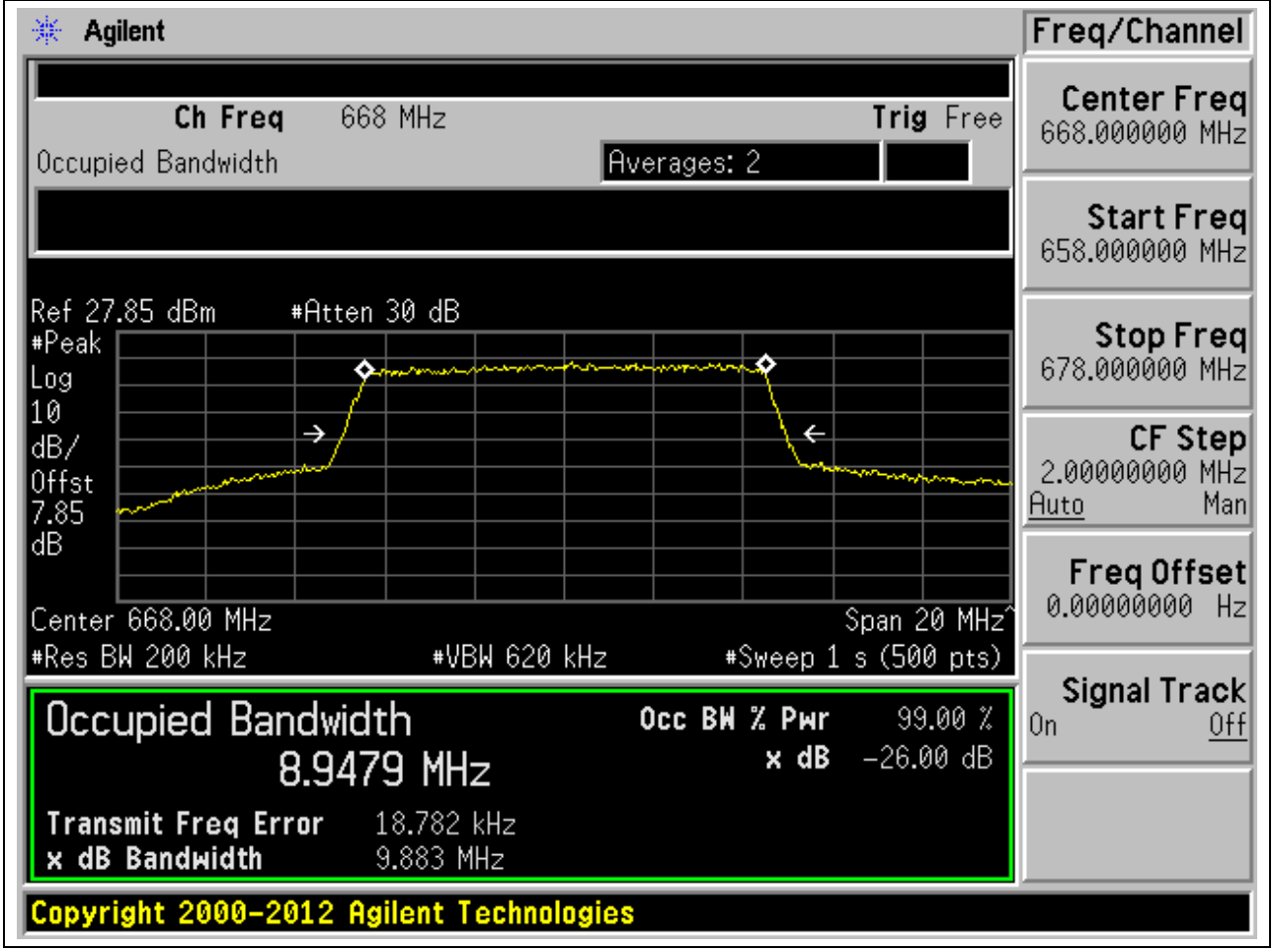
2.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:133447, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
695.5	99	26	0.1	Peak	4.5	5.02	5	Pass



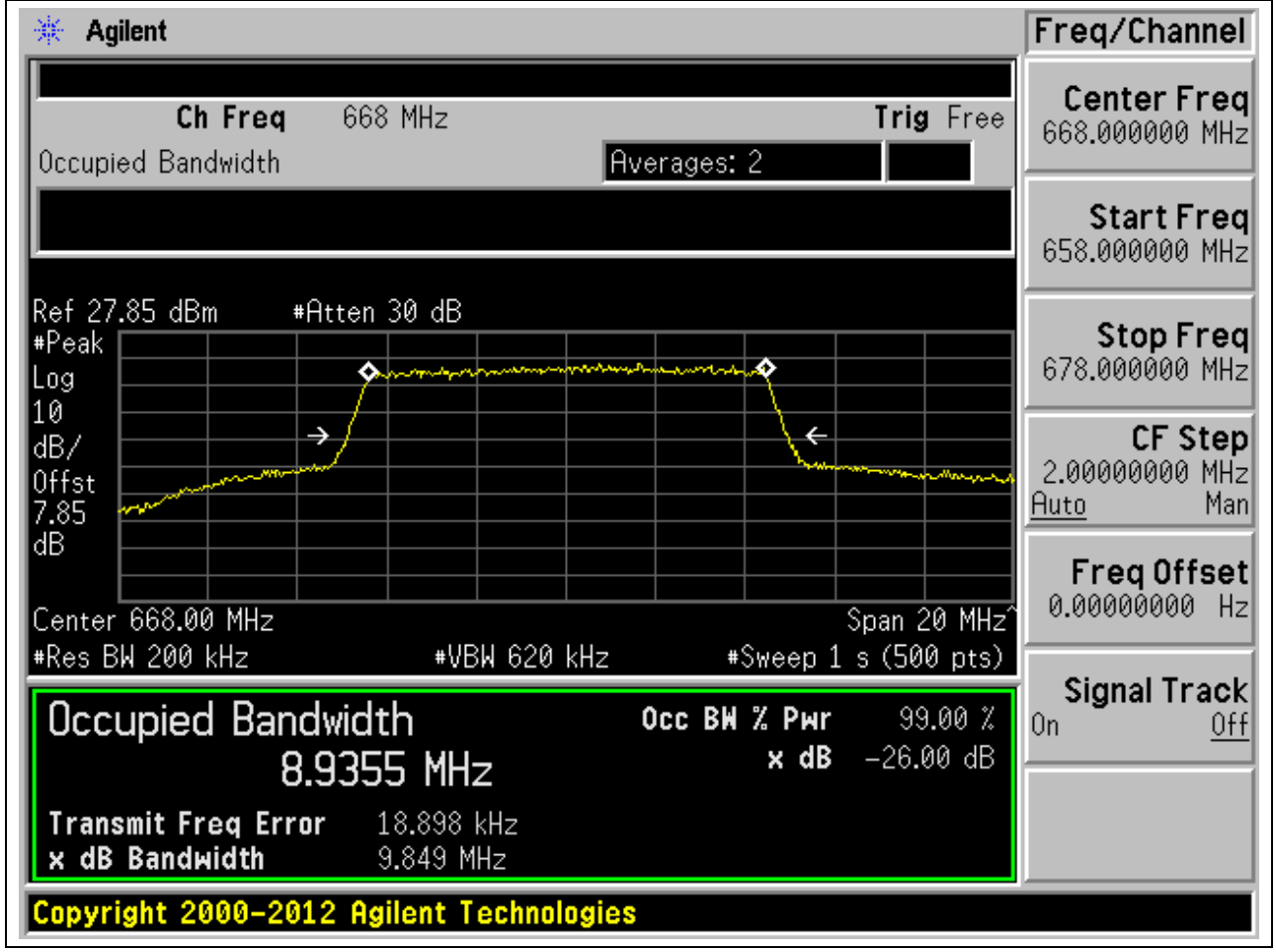
2.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:133172, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
668	99	26	0.2	Peak	8.95	9.88	10	Pass



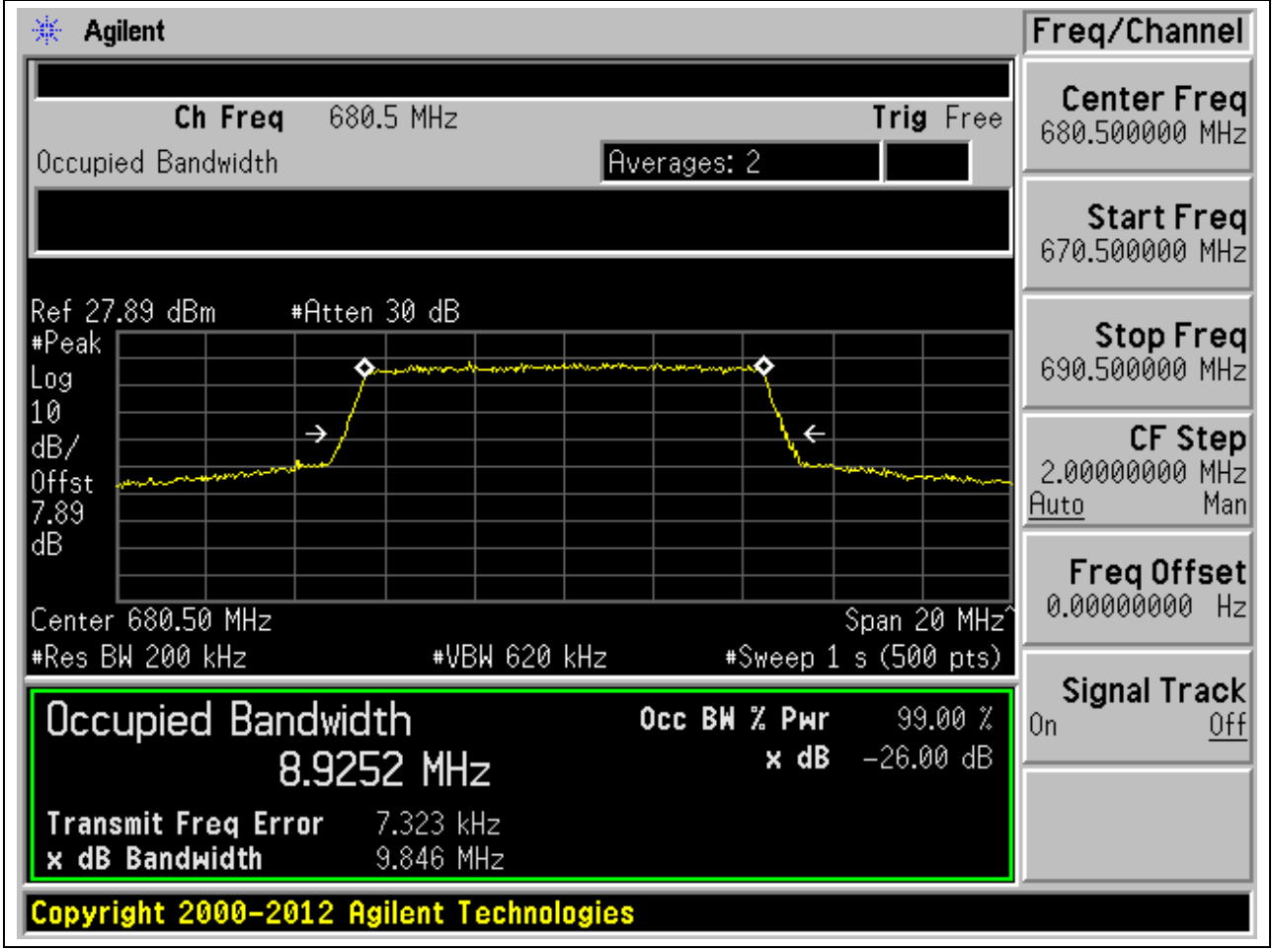
2.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:133172, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
668	99	26	0.2	Peak	8.94	9.85	10	Pass



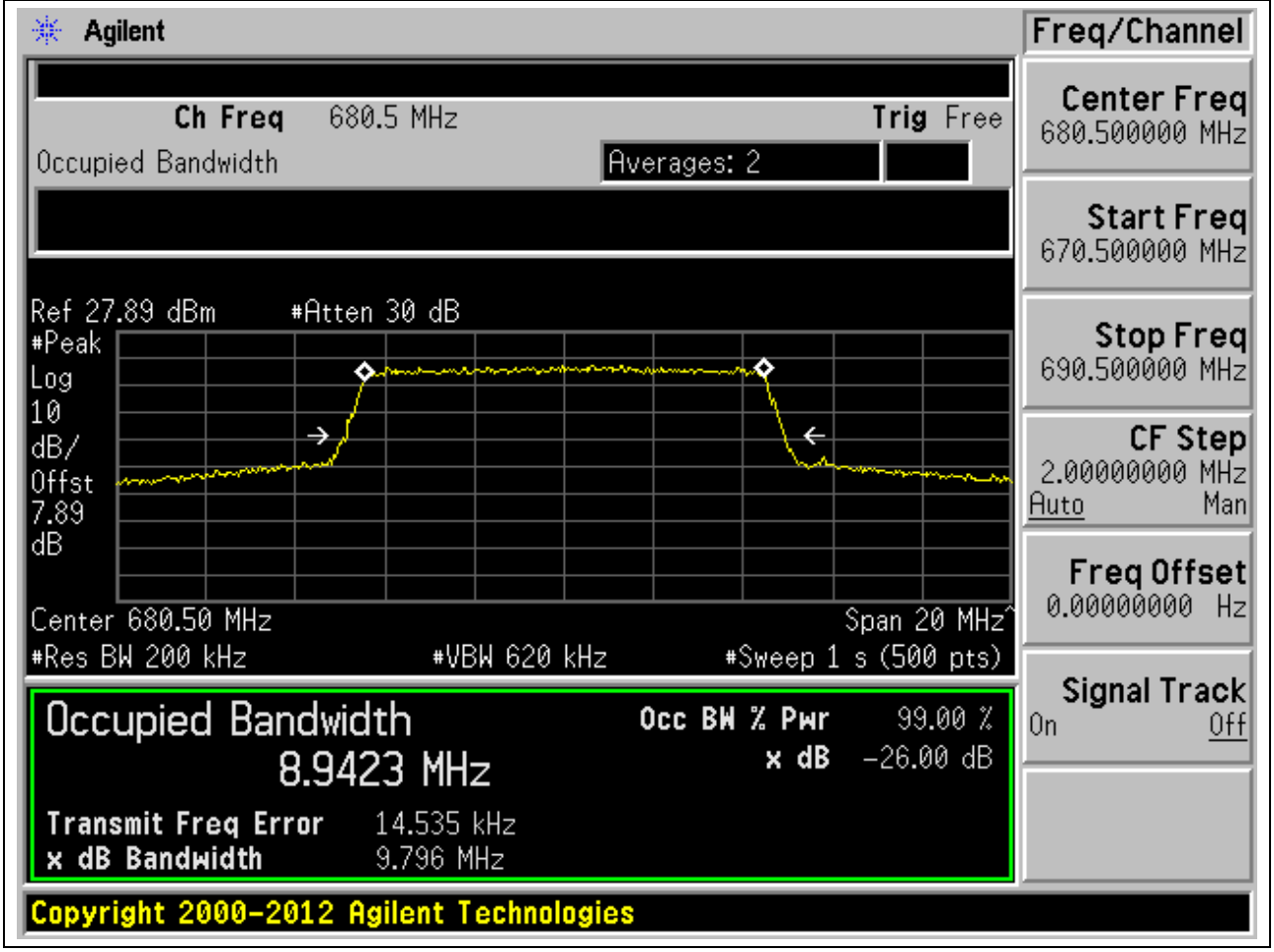
2.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:133297, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
680.5	99	26	0.2	Peak	8.93	9.85	10	Pass



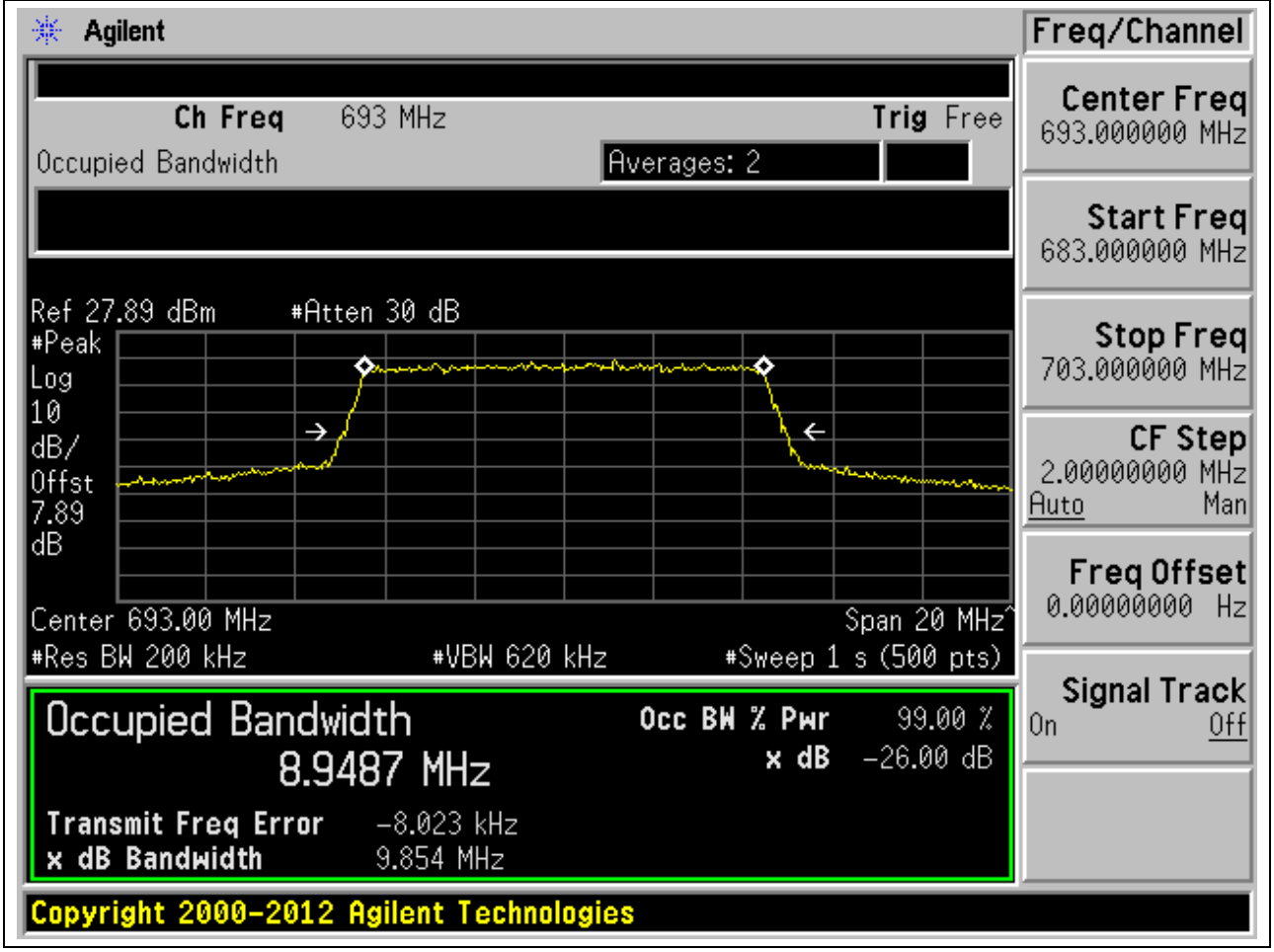
2.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:133297, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
680.5	99	26	0.2	Peak	8.94	9.8	10	Pass



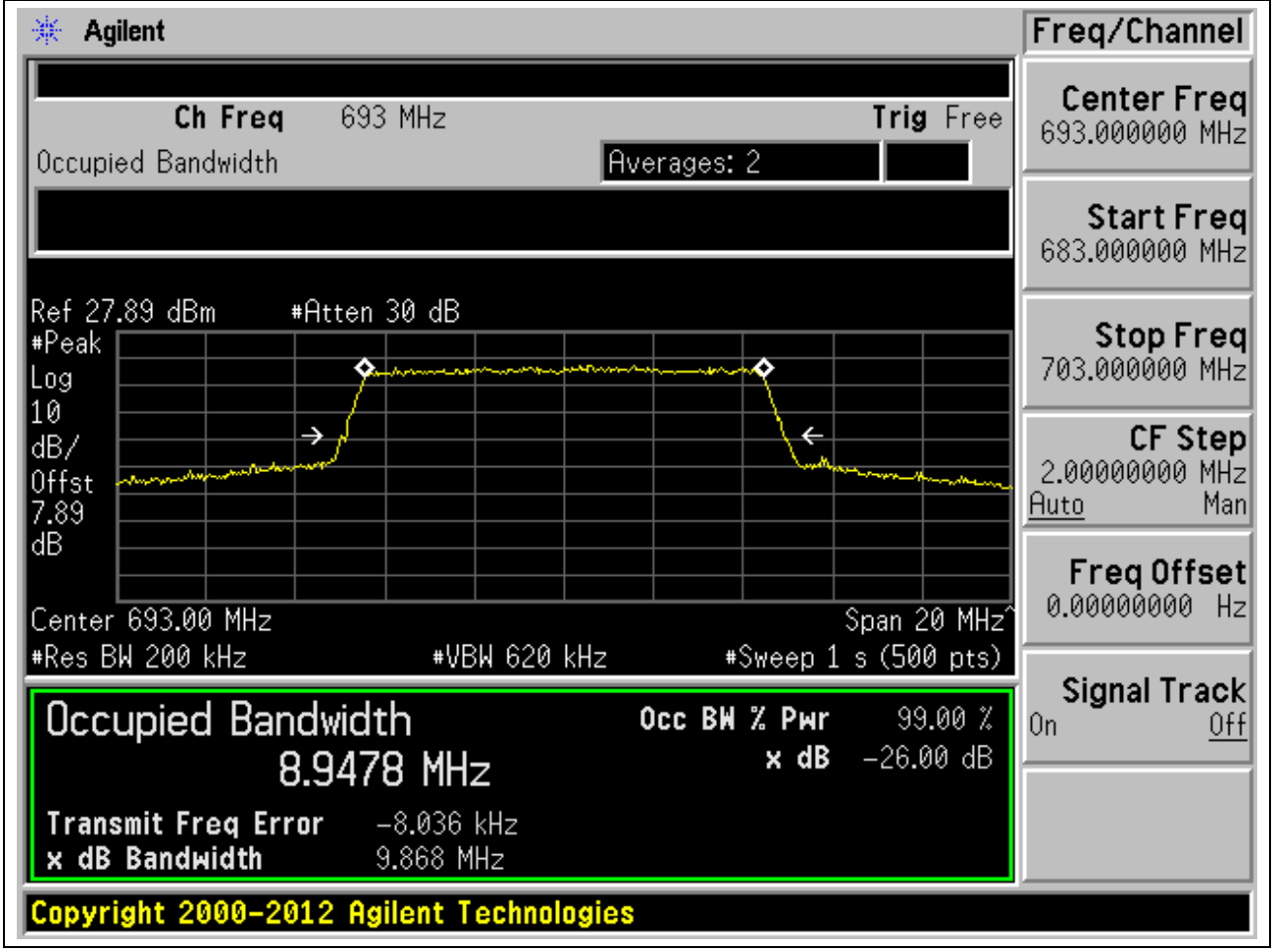
2.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:133422, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
693	99	26	0.2	Peak	8.95	9.85	10	Pass



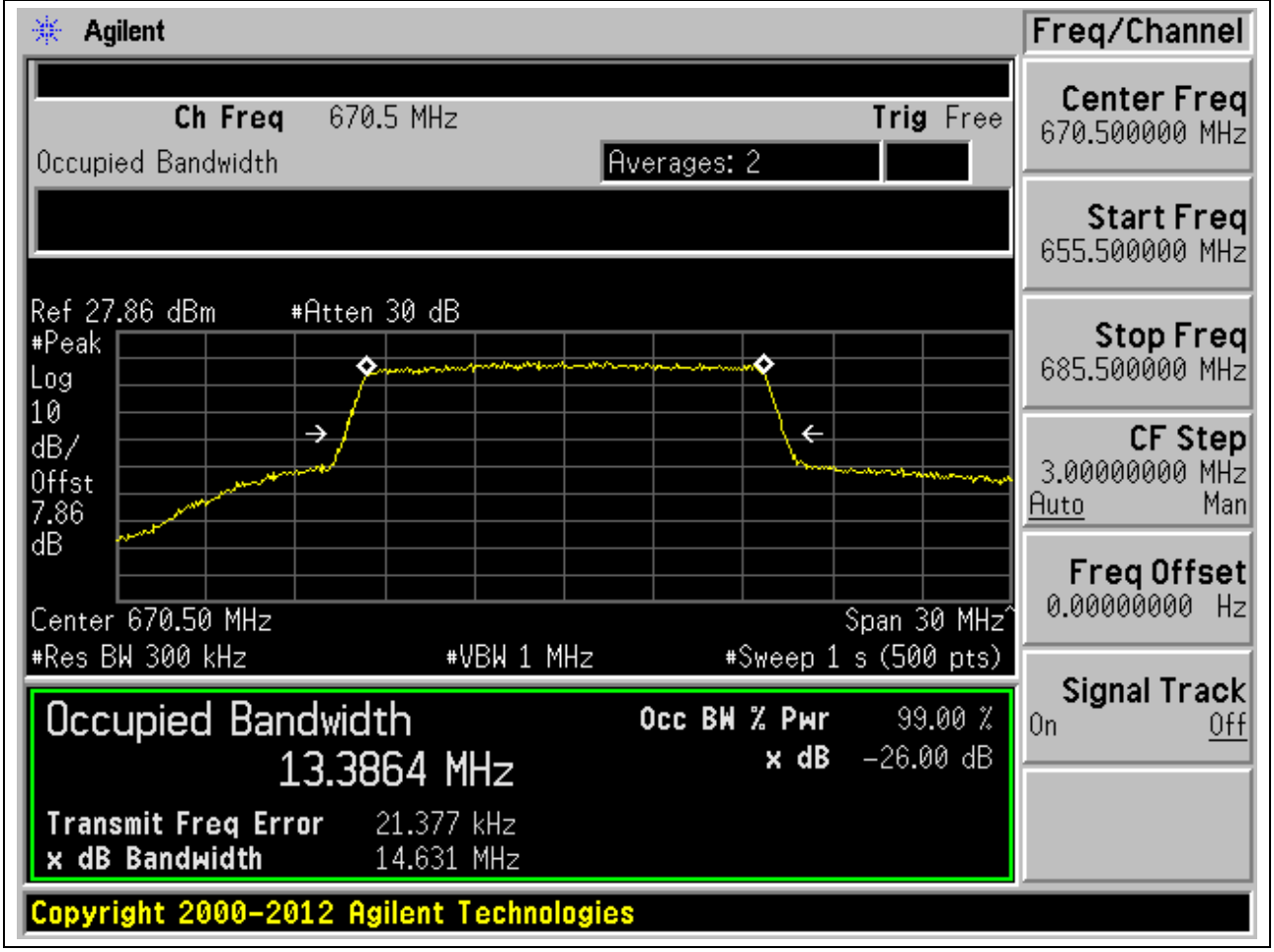
2.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:133422, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
693	99	26	0.2	Peak	8.95	9.87	10	Pass



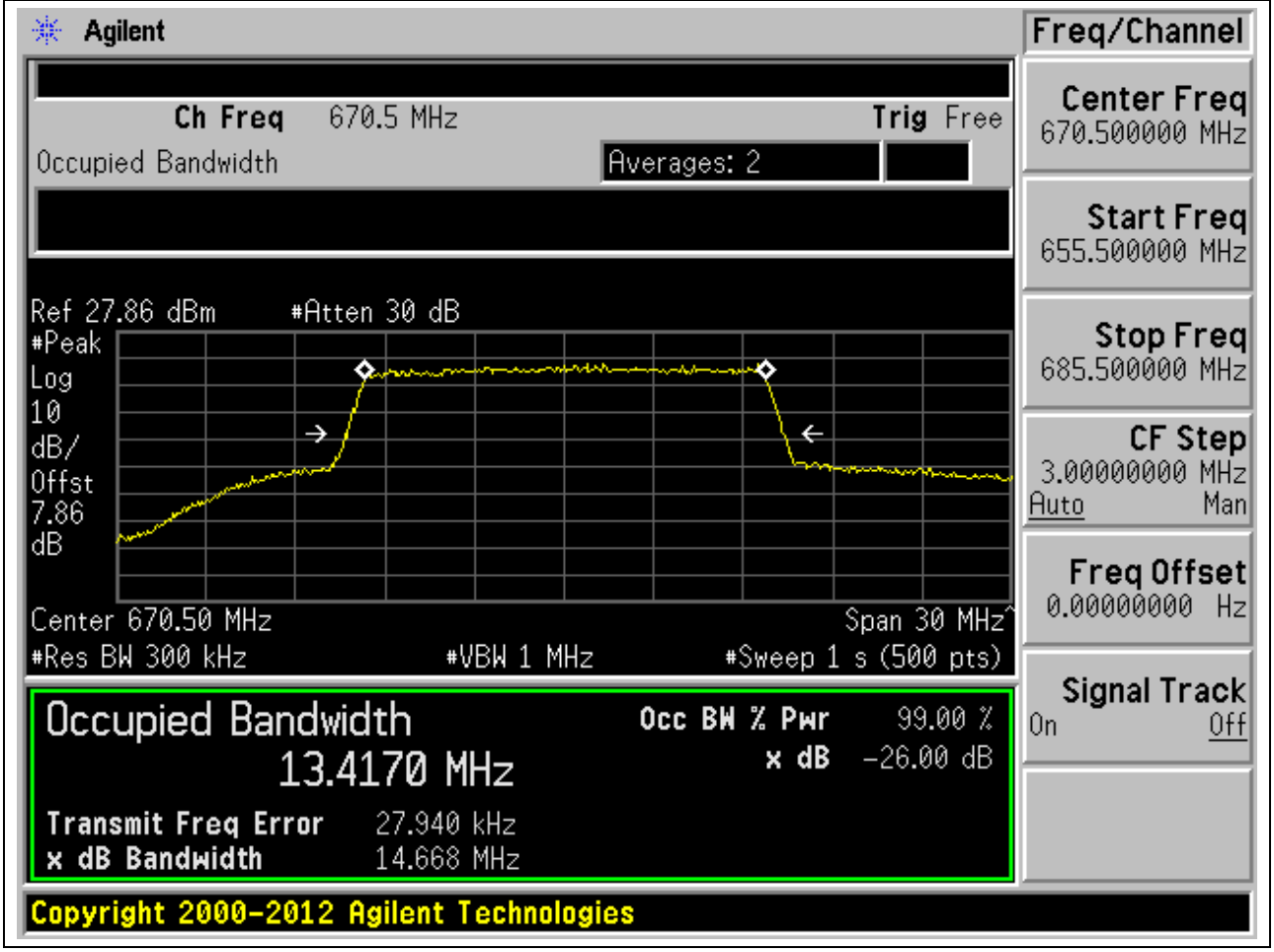
2.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:133197, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
670.5	99	26	0.3	Peak	13.39	14.63	15	Pass



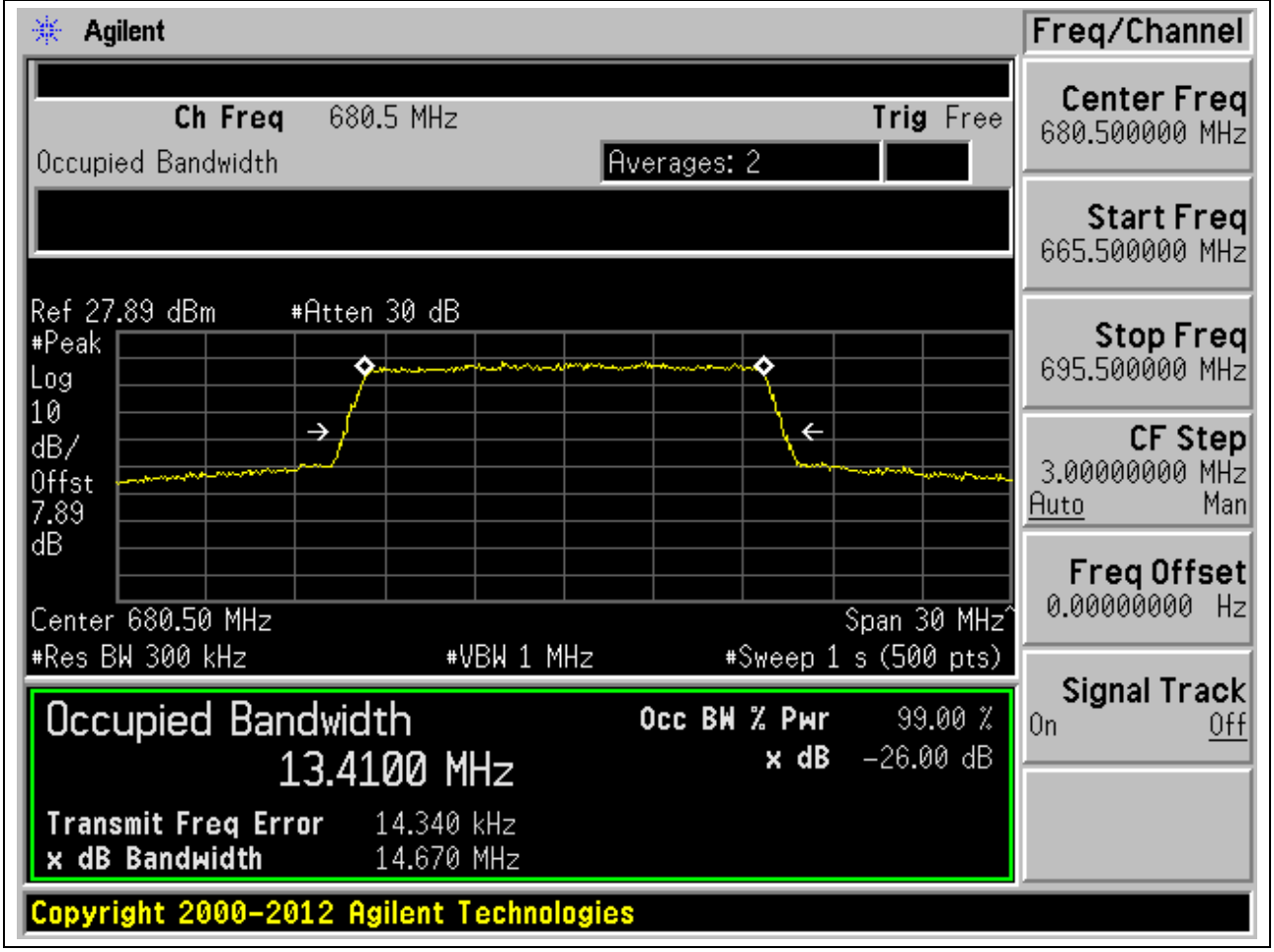
2.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:133197, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
670.5	99	26	0.3	Peak	13.42	14.67	15	Pass



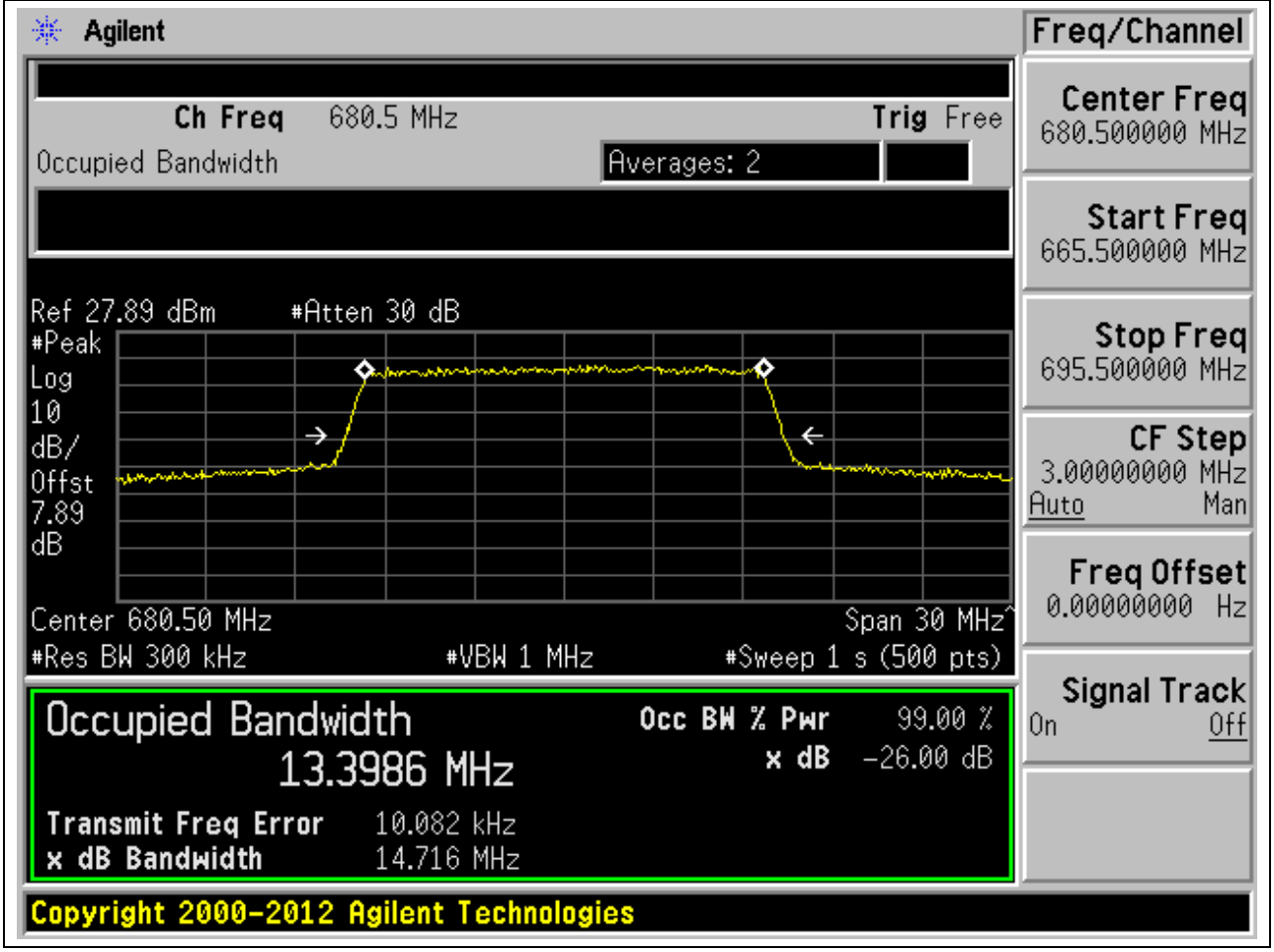
2.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:133297, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
680.5	99	26	0.3	Peak	13.41	14.67	15	Pass



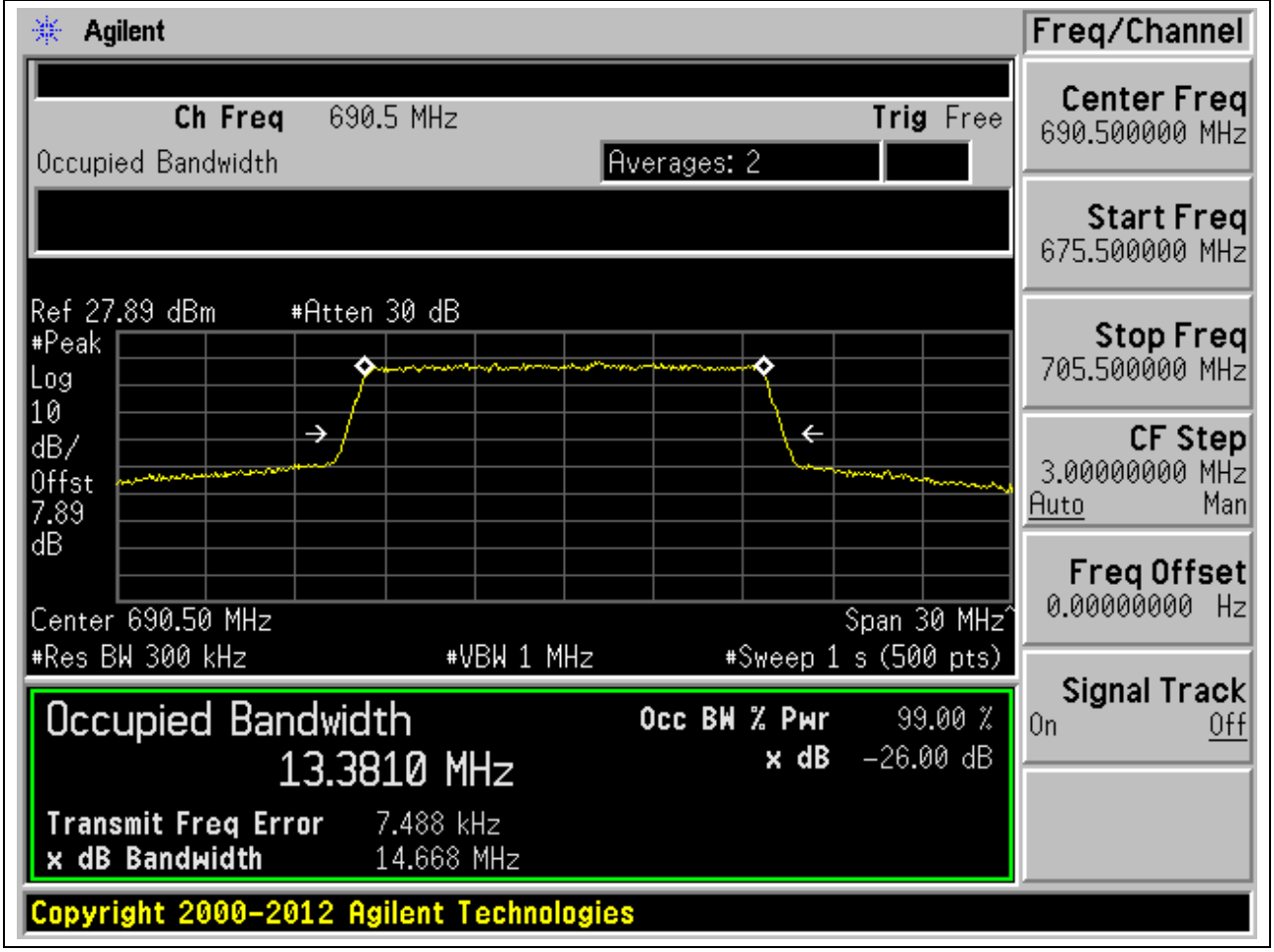
2.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:133297, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
680.5	99	26	0.3	Peak	13.4	14.72	15	Pass



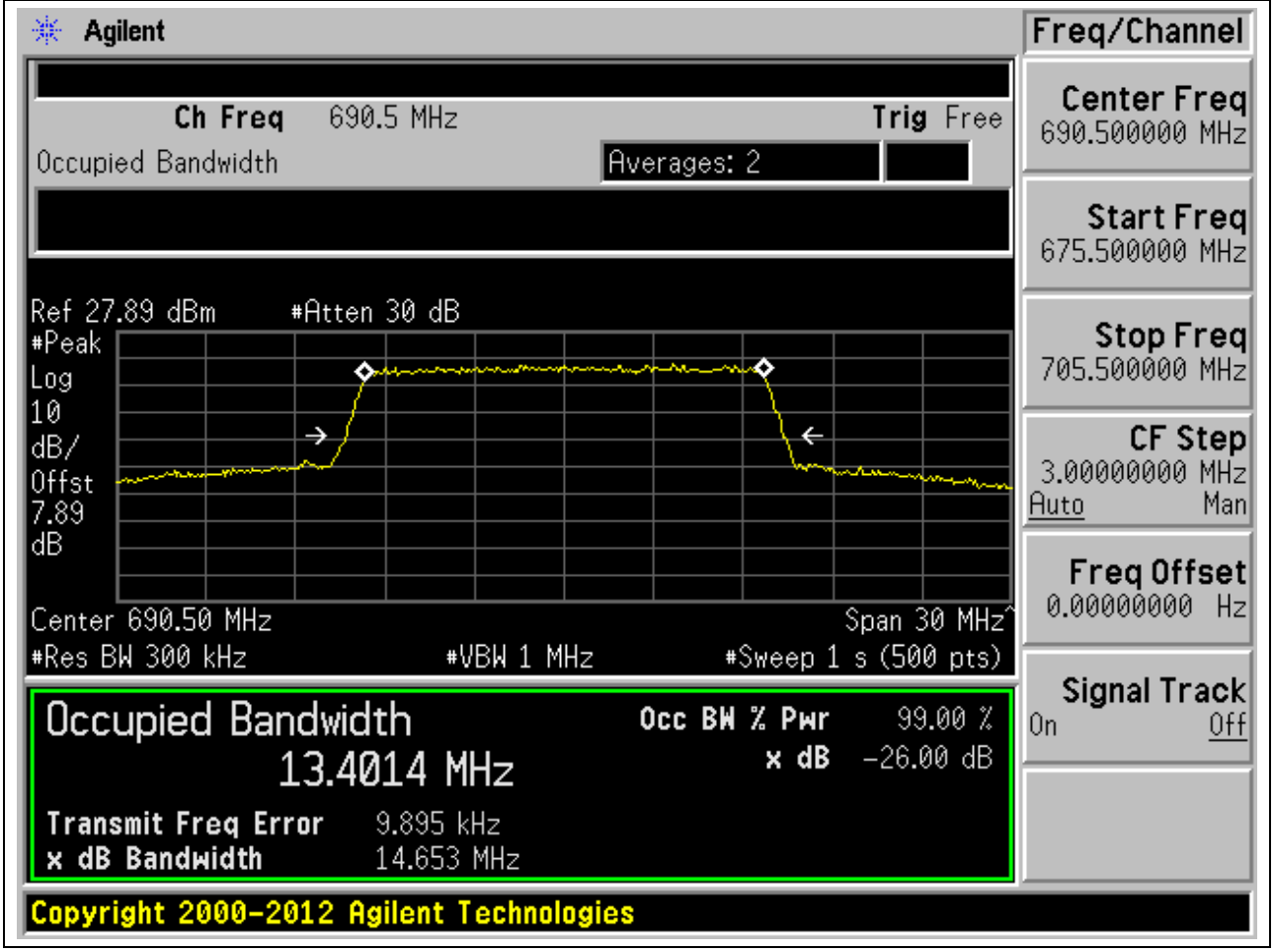
2.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:133397, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
690.5	99	26	0.3	Peak	13.38	14.67	15	Pass



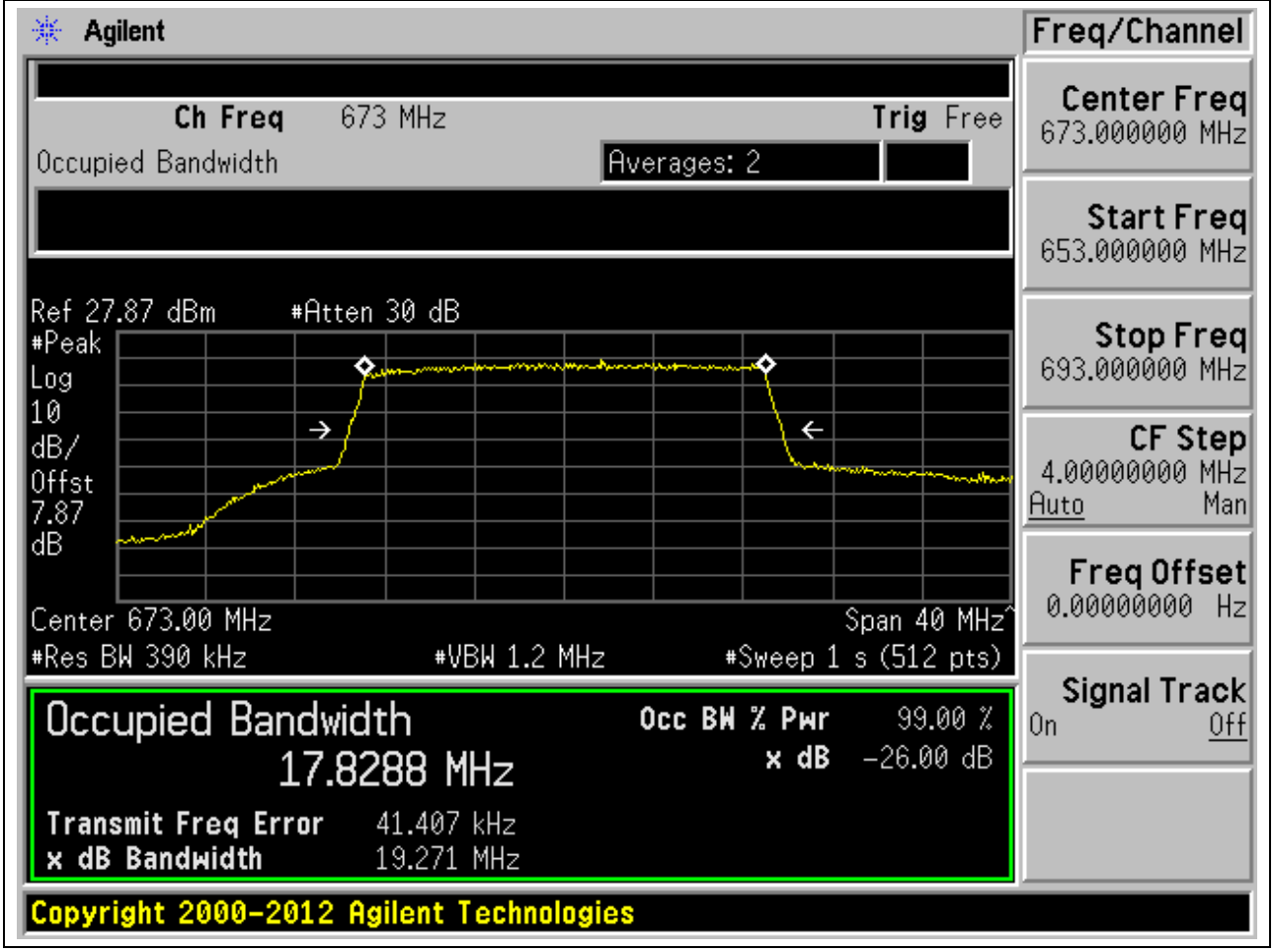
2.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:133397, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
690.5	99	26	0.3	Peak	13.4	14.65	15	Pass



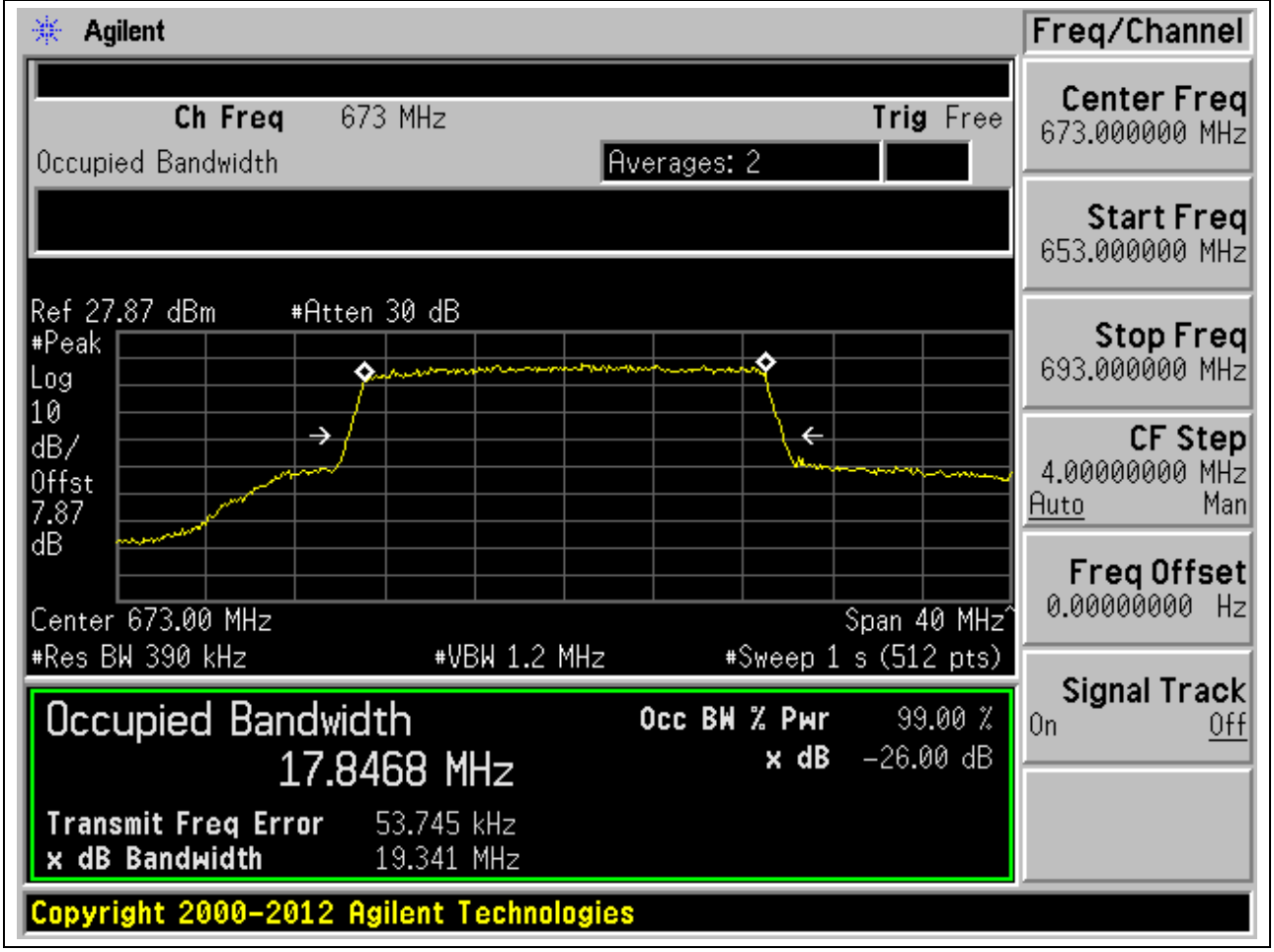
2.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:133222, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
673	99	26	0.39	Peak	17.83	19.27	20	Pass



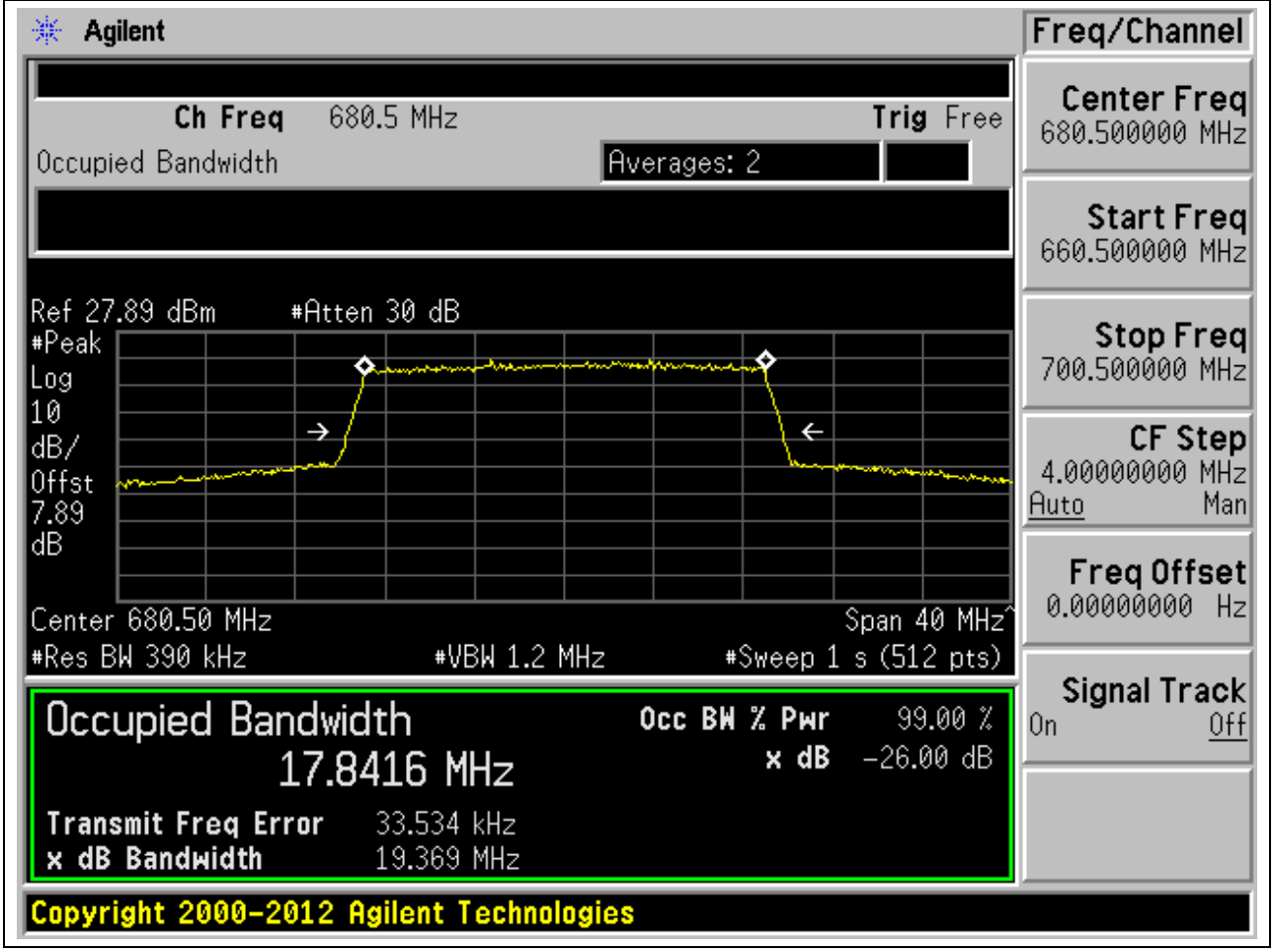
2.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:133222, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
673	99	26	0.39	Peak	17.85	19.34	20	Pass



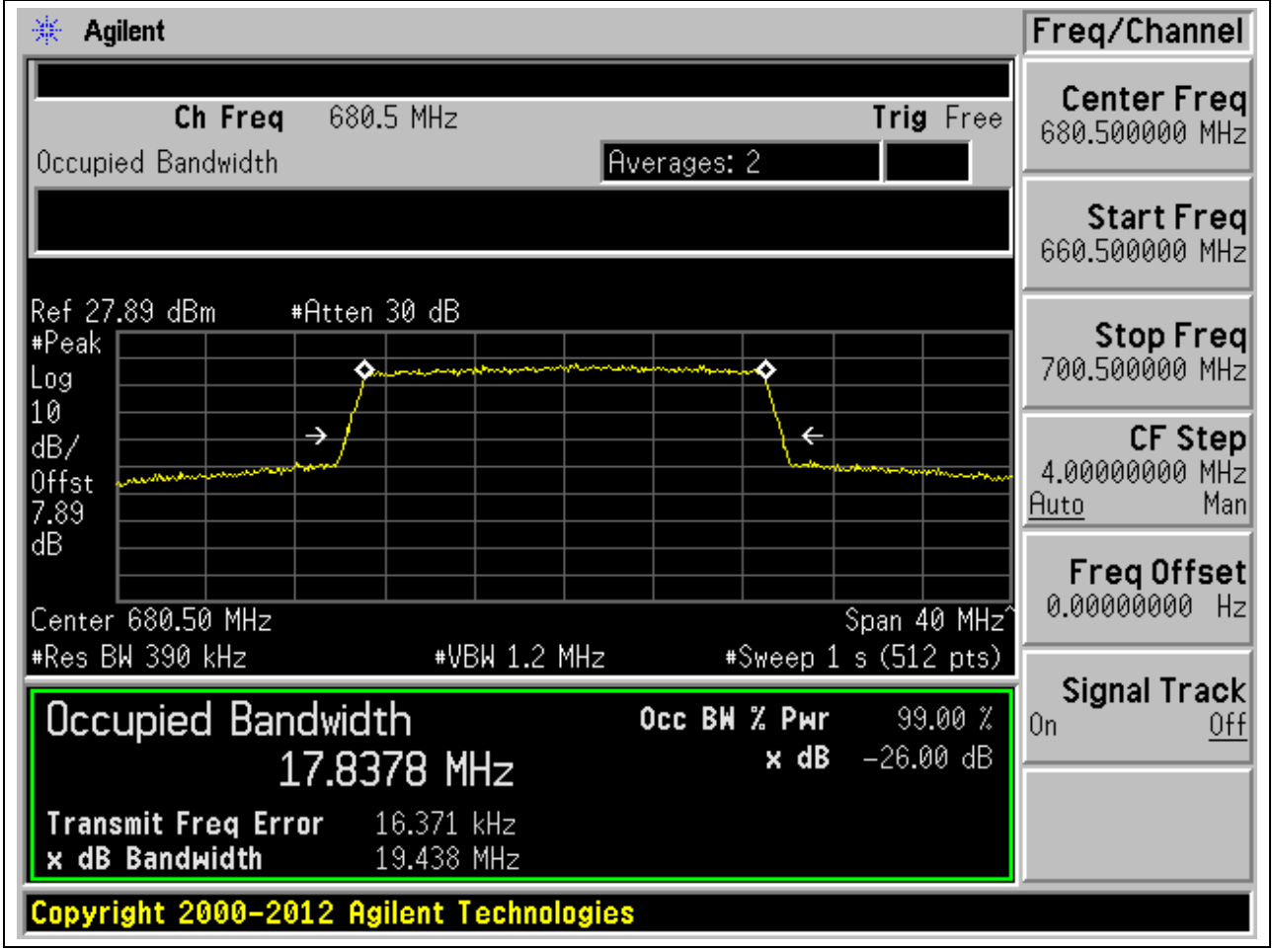
2.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:133297, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
680.5	99	26	0.39	Peak	17.84	19.37	20	Pass



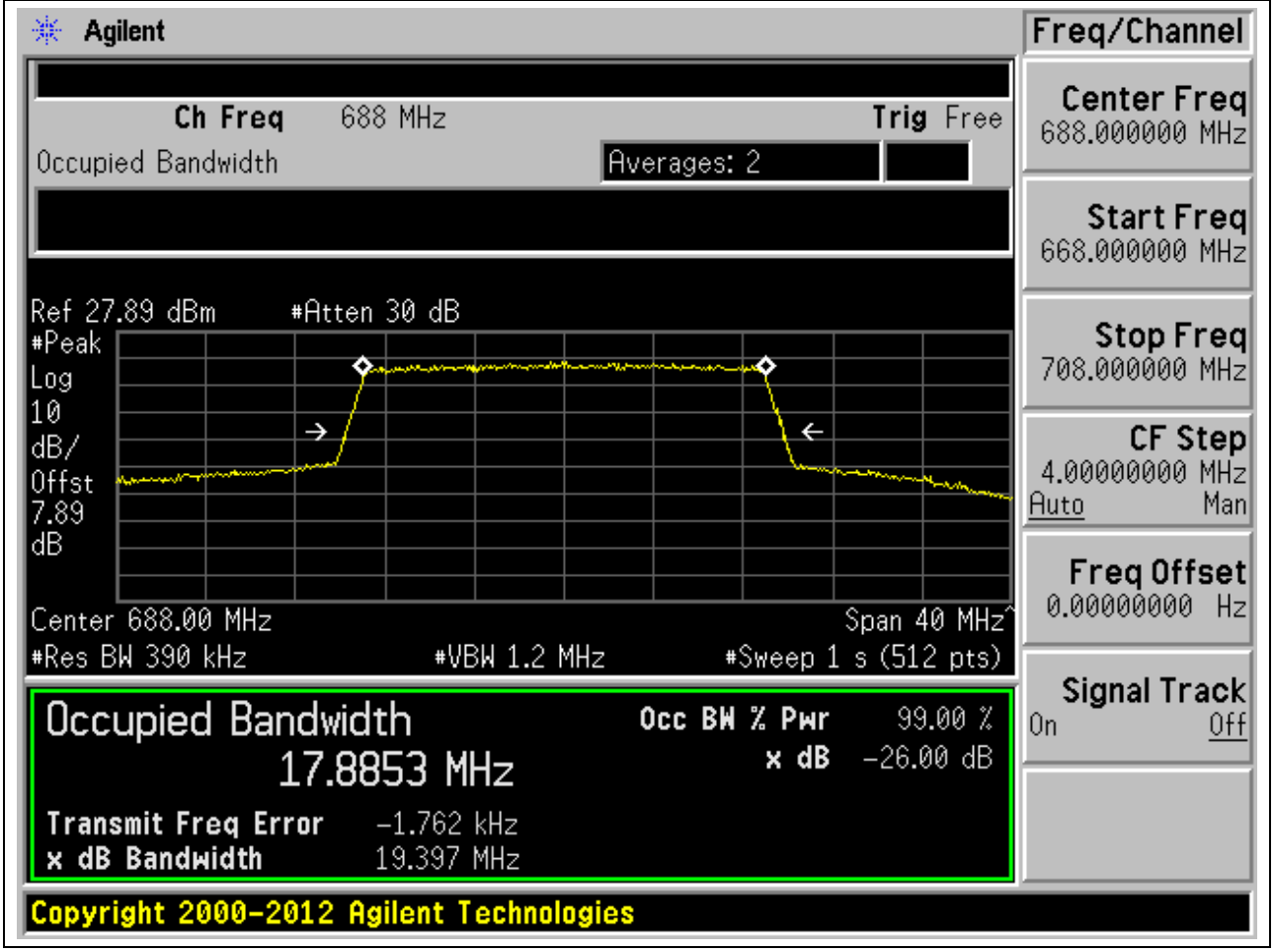
2.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:133297, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
680.5	99	26	0.39	Peak	17.84	19.44	20	Pass



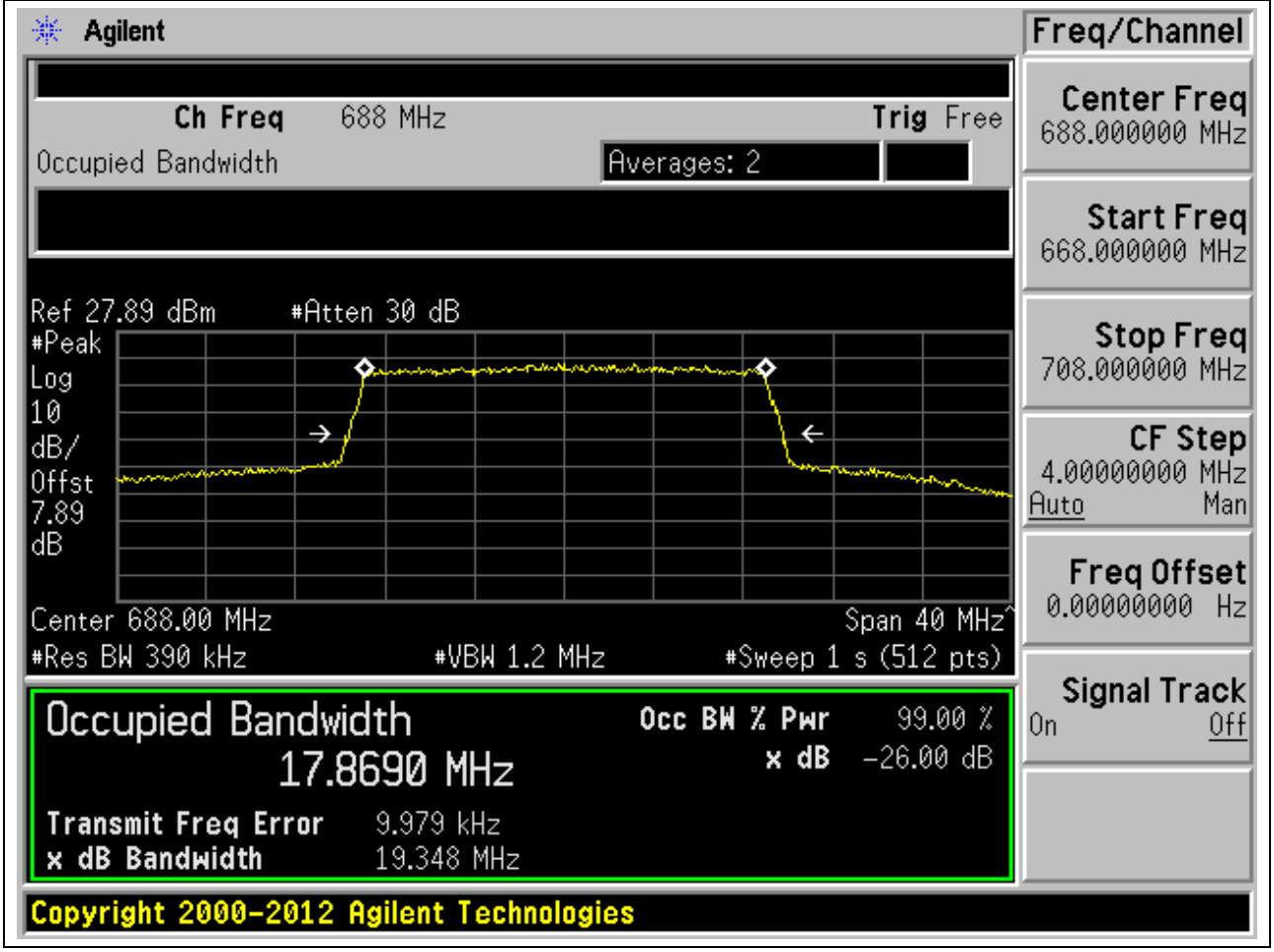
2.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:133372, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
688	99	26	0.39	Peak	17.89	19.4	20	Pass



2.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:133372, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
688	99	26	0.39	Peak	17.87	19.35	20	Pass

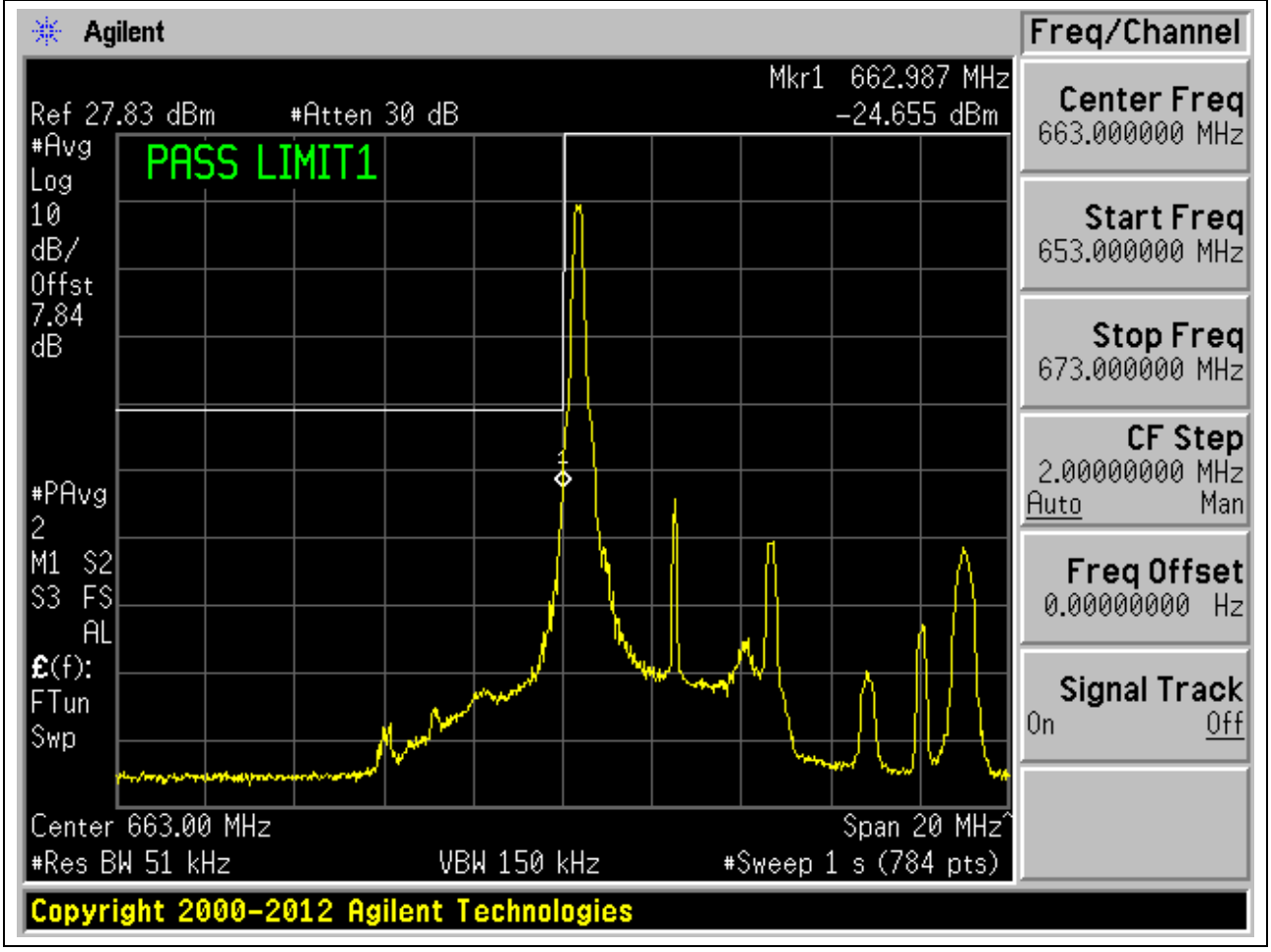


Appendix D: Band Edge

Test Result

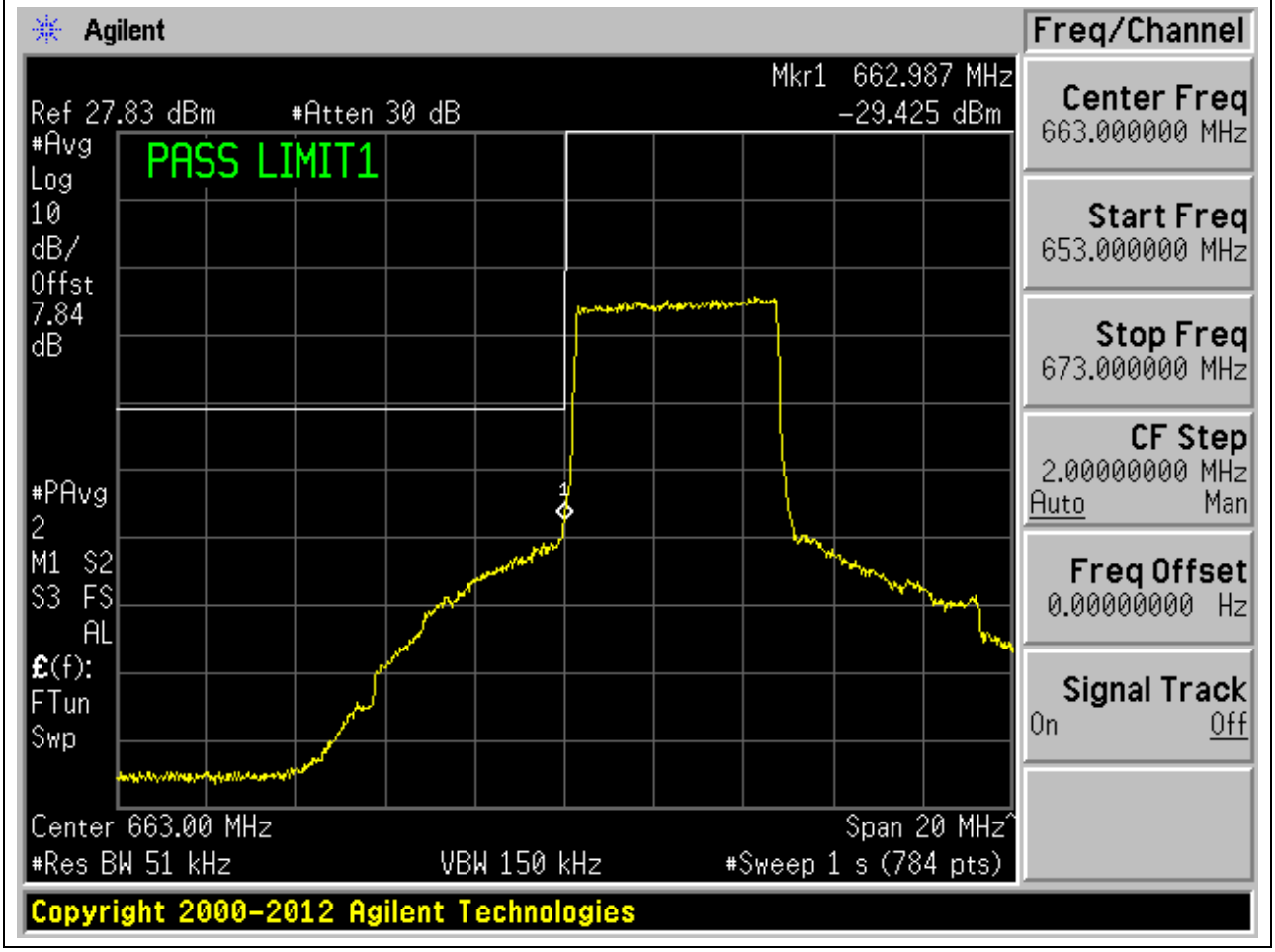
2.1. LTE Band Edge(NTNV)(Subtest:1, Channel:133147, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	20	0.051	RMS	662.987	-24.66	Pass	784



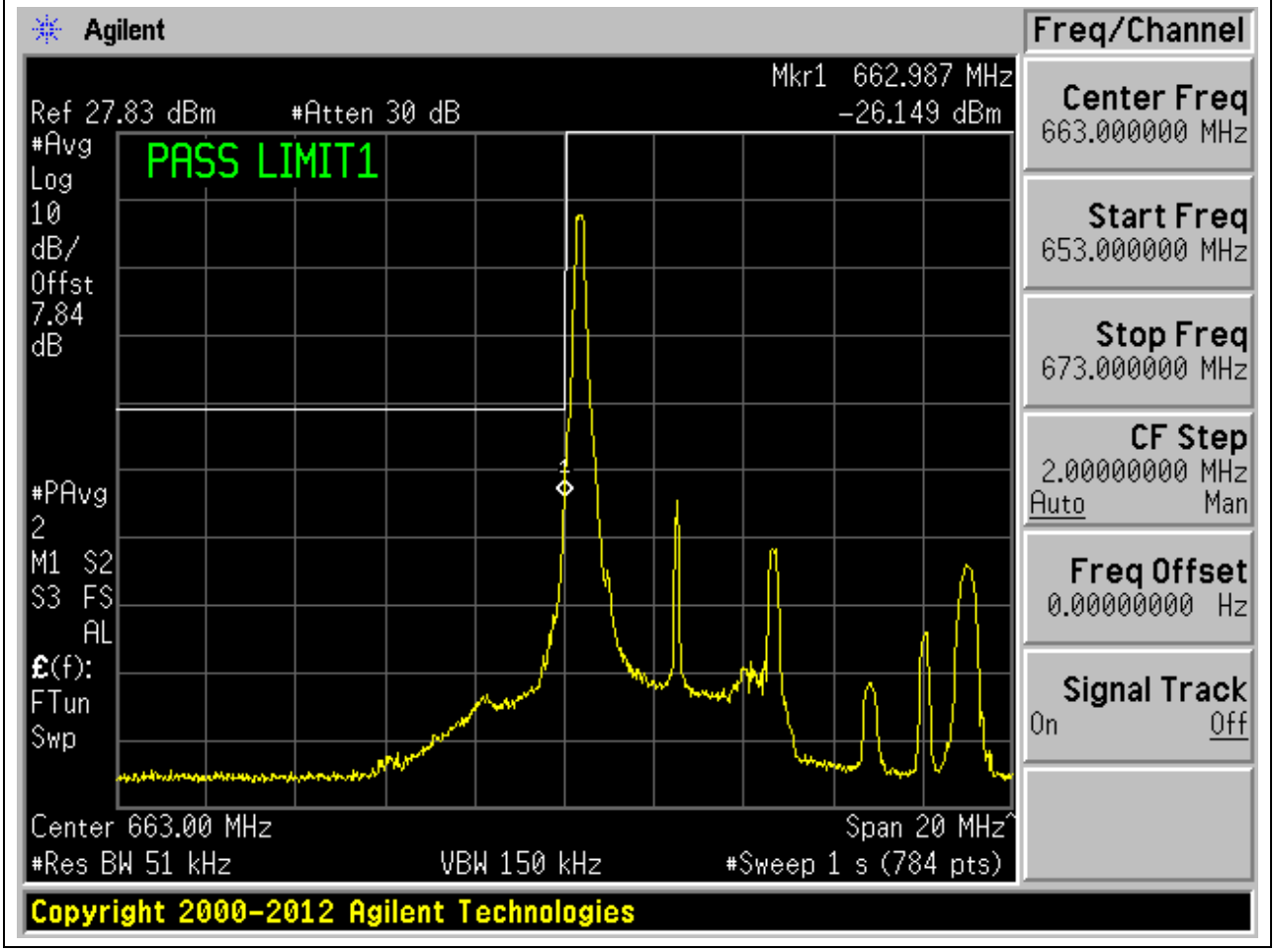
2.2. LTE Band Edge(NTNV)(Subtest:2, Channel:133147, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	20	0.051	RMS	662.987	-29.42	Pass	784



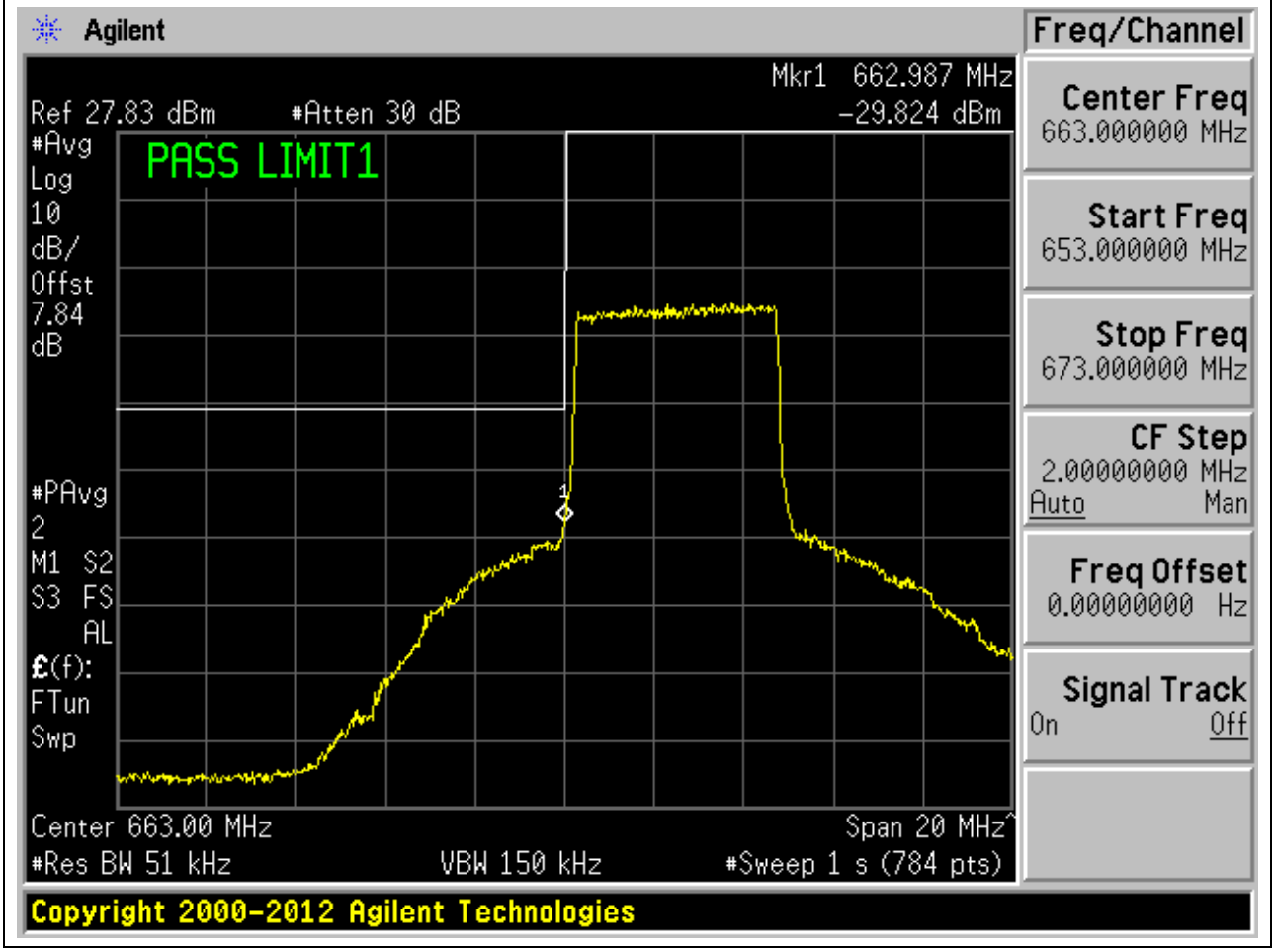
2.3. LTE Band Edge(NTNV)(Subtest:3, Channel:133147, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	20	0.051	RMS	662.987	-26.15	Pass	784



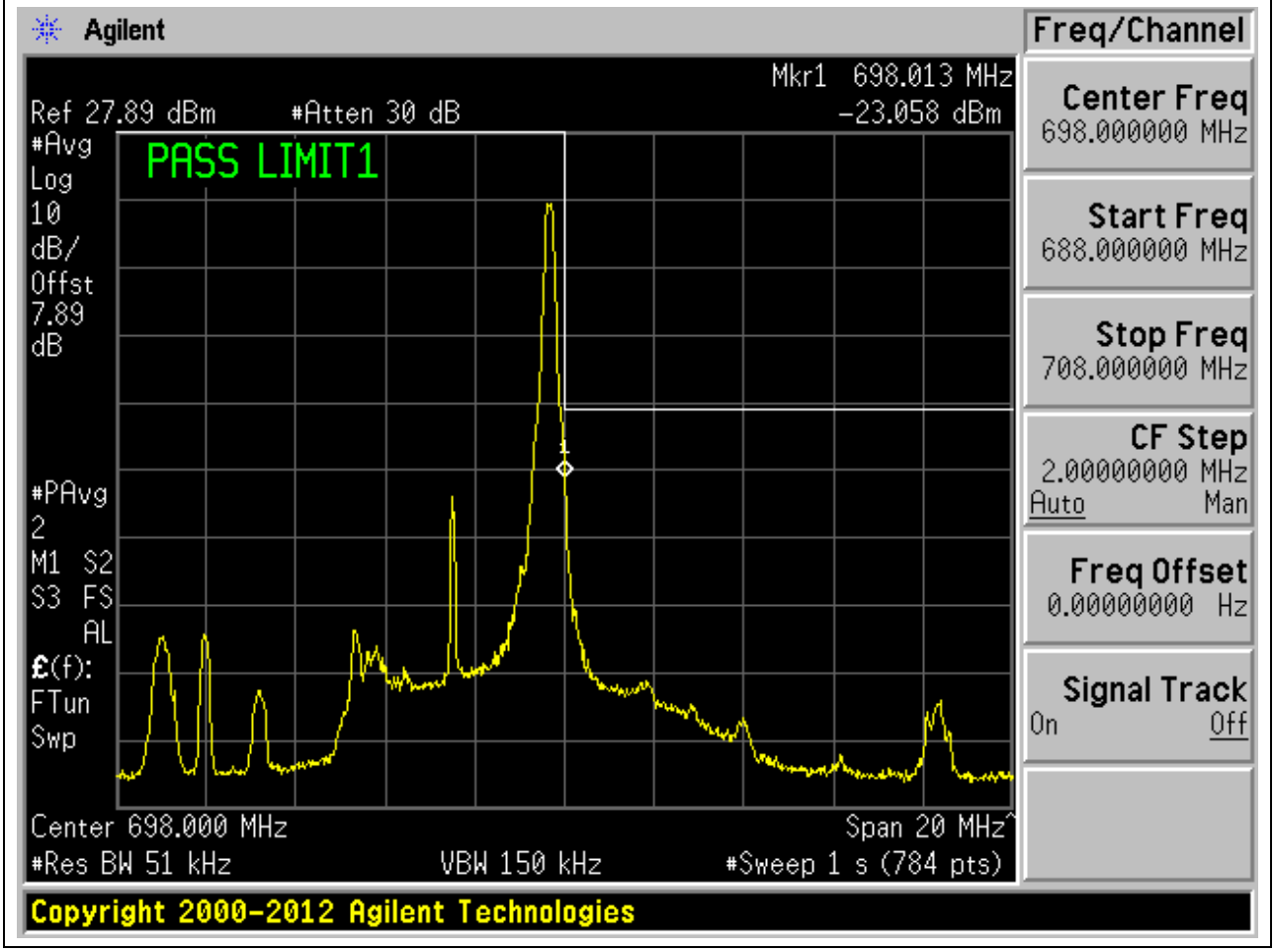
2.4. LTE Band Edge(NTNV)(Subtest:4, Channel:133147, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	20	0.051	RMS	662.987	-29.82	Pass	784



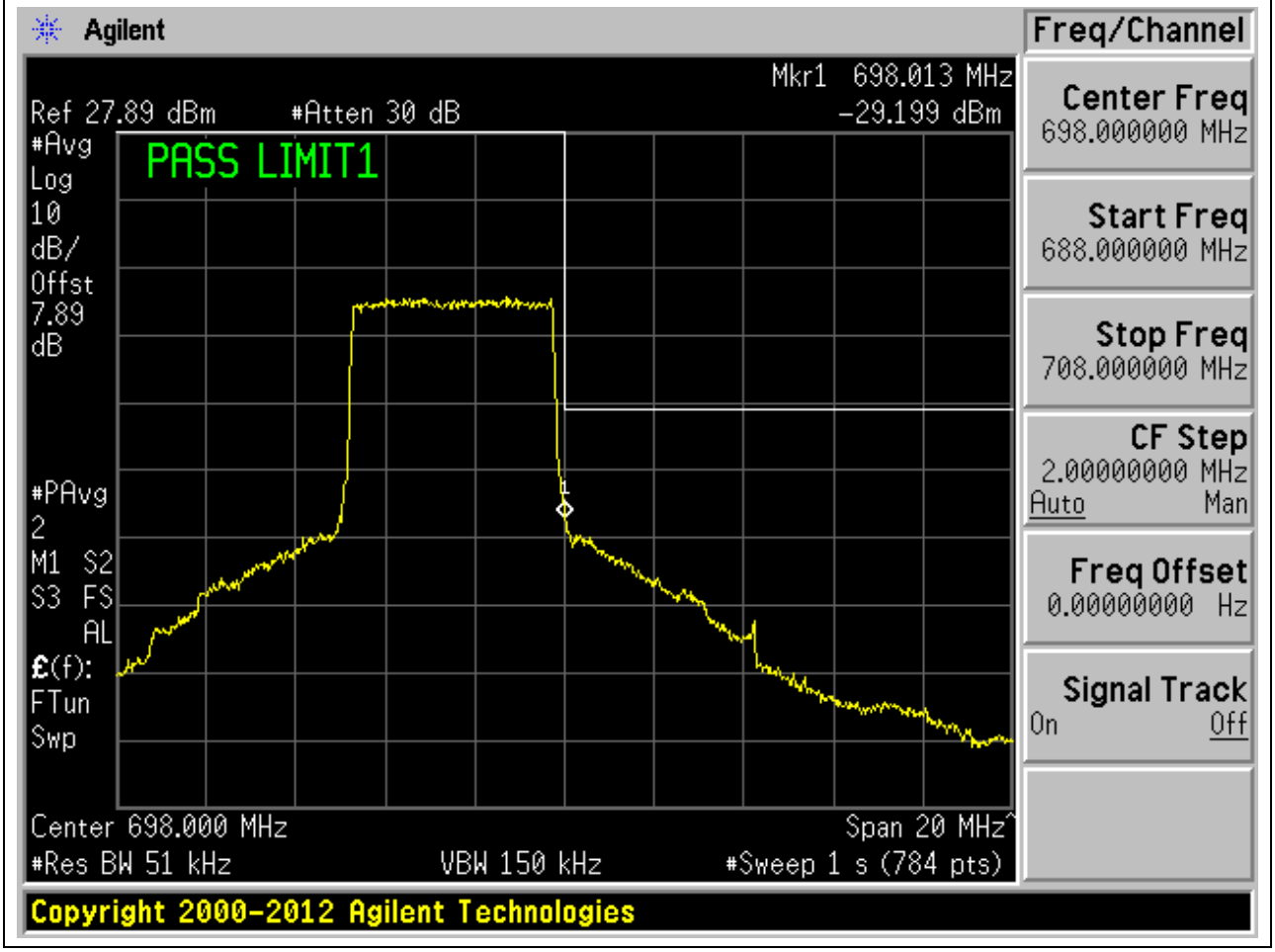
2.5. LTE Band Edge(NTNV)(Subtest:5, Channel:133447, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	20	0.051	RMS	698.013	-23.06	Pass	784



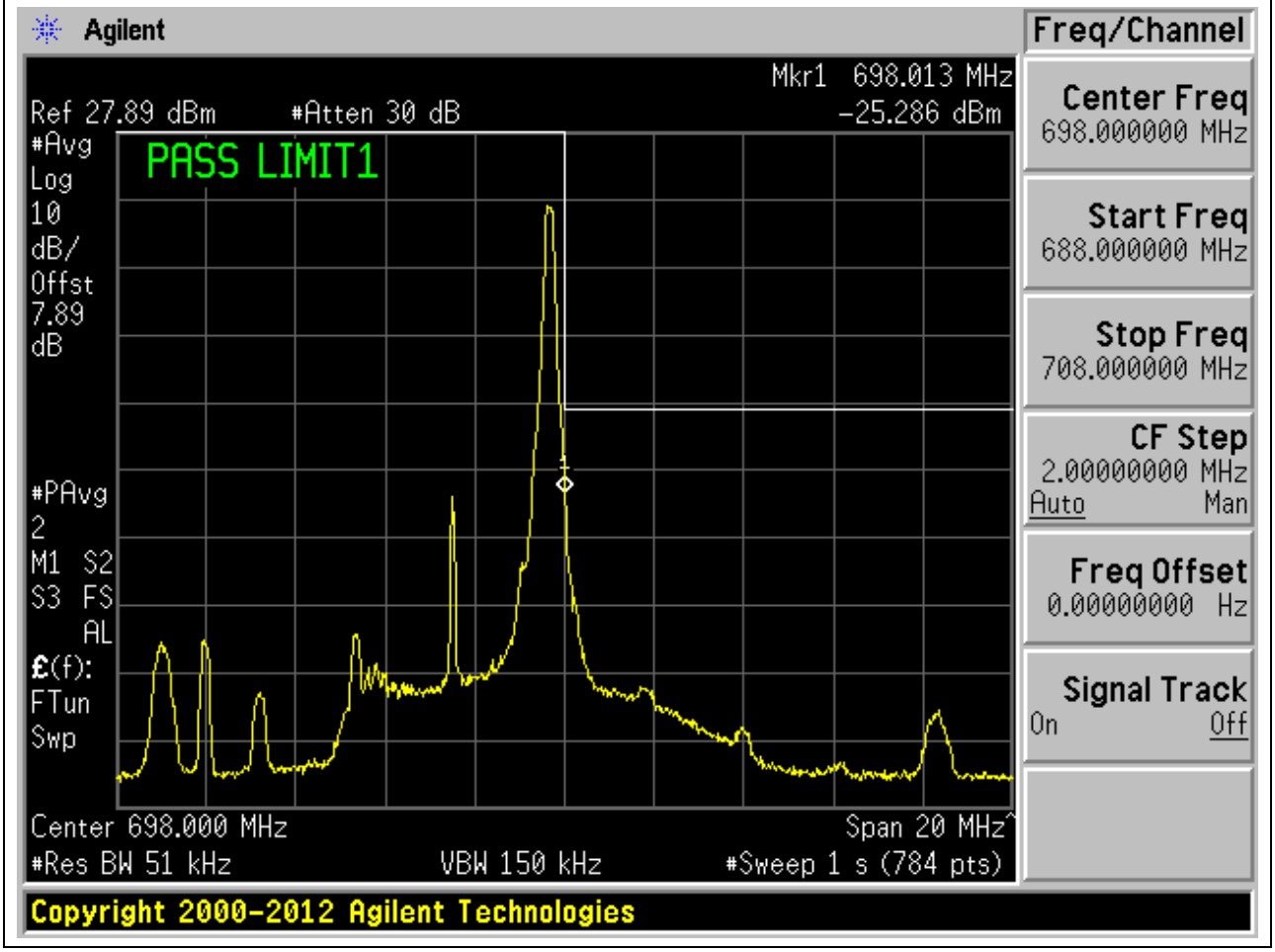
2.6. LTE Band Edge(NTNV)(Subtest:6, Channel:133447, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	20	0.051	RMS	698.013	-29.2	Pass	784



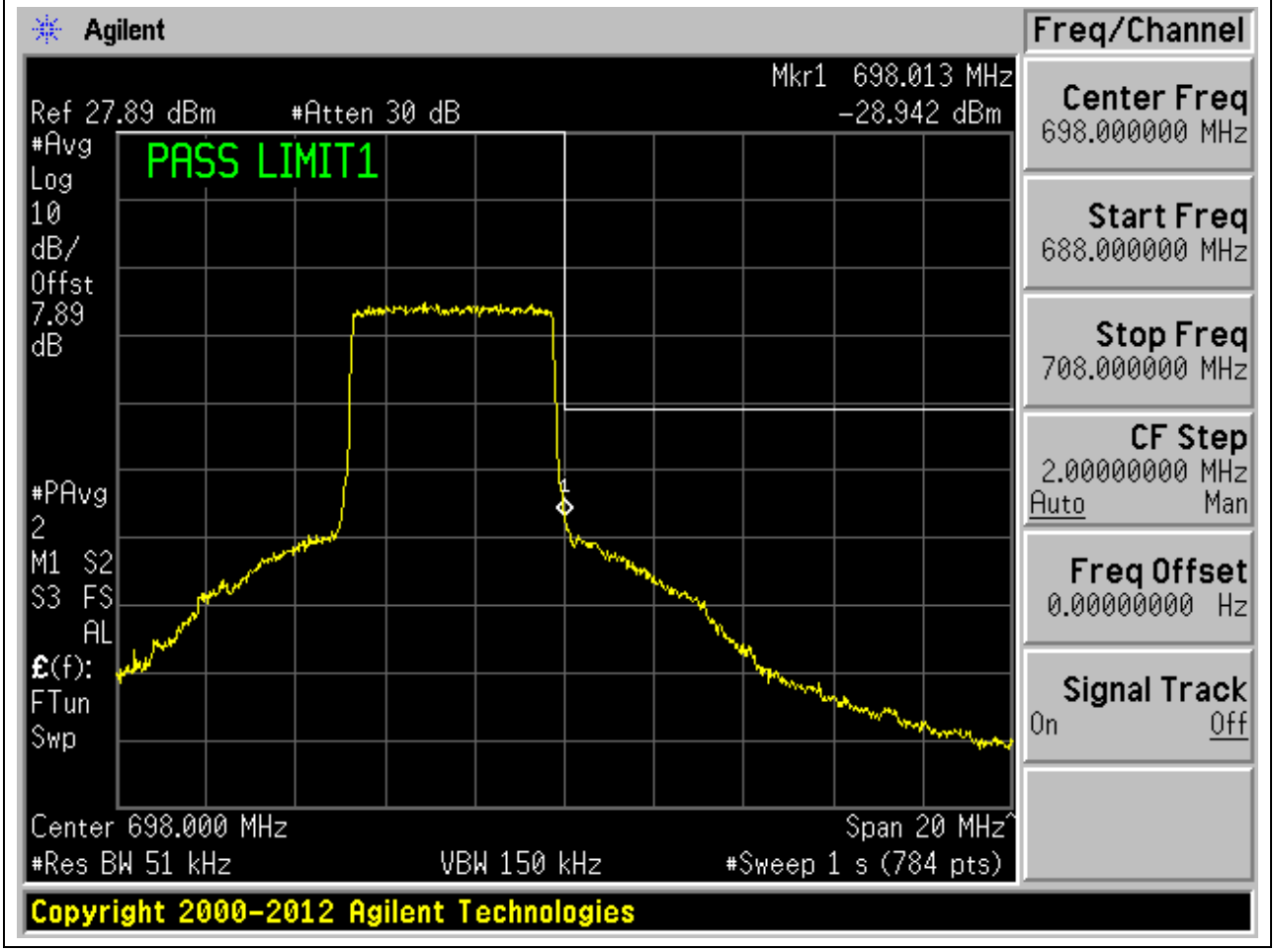
2.7. LTE Band Edge(NTNV)(Subtest:7, Channel:133447, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	20	0.051	RMS	698.013	-25.29	Pass	784



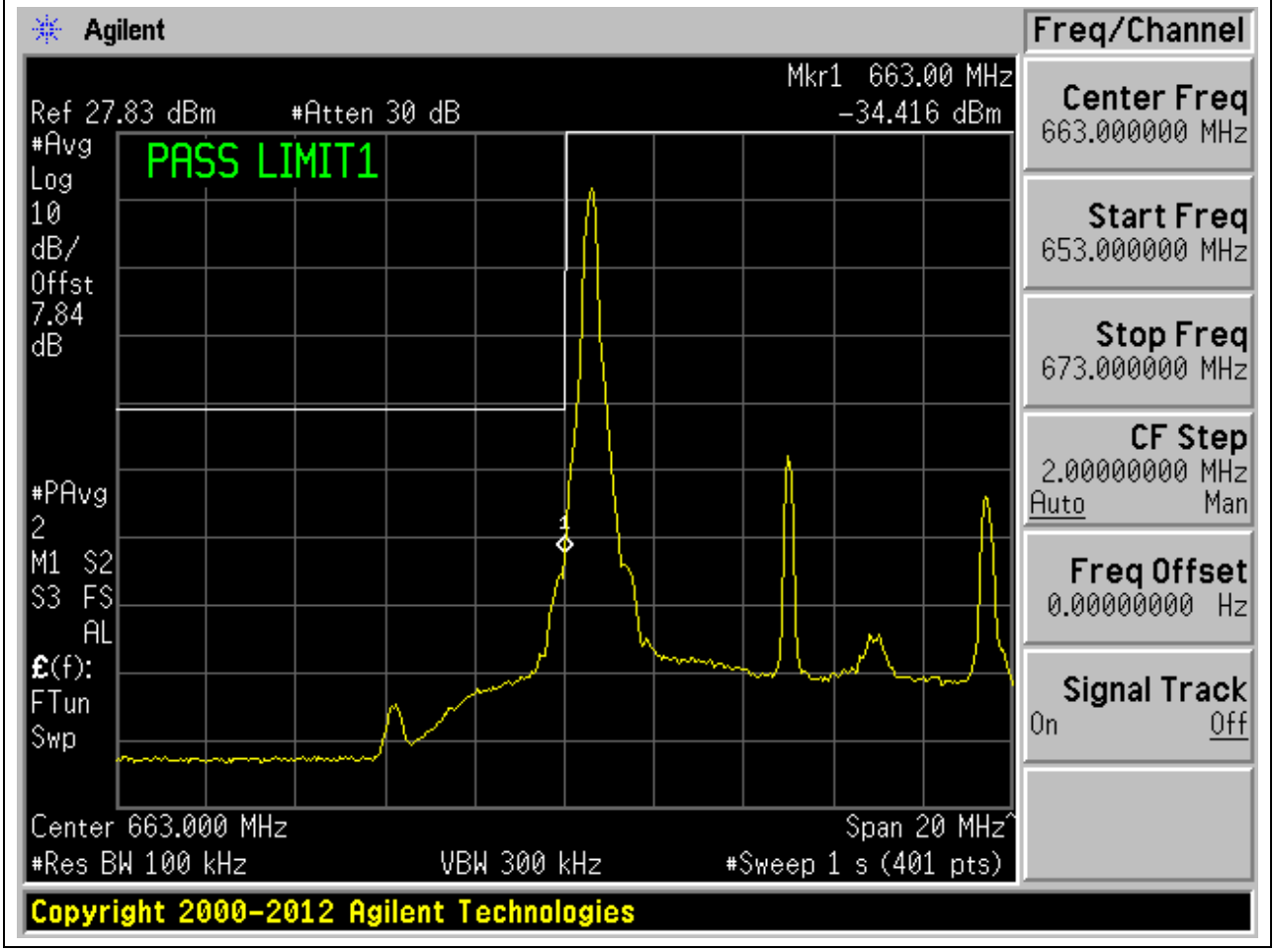
2.8. LTE Band Edge(NTNV)(Subtest:8, Channel:133447, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	20	0.051	RMS	698.013	-28.94	Pass	784



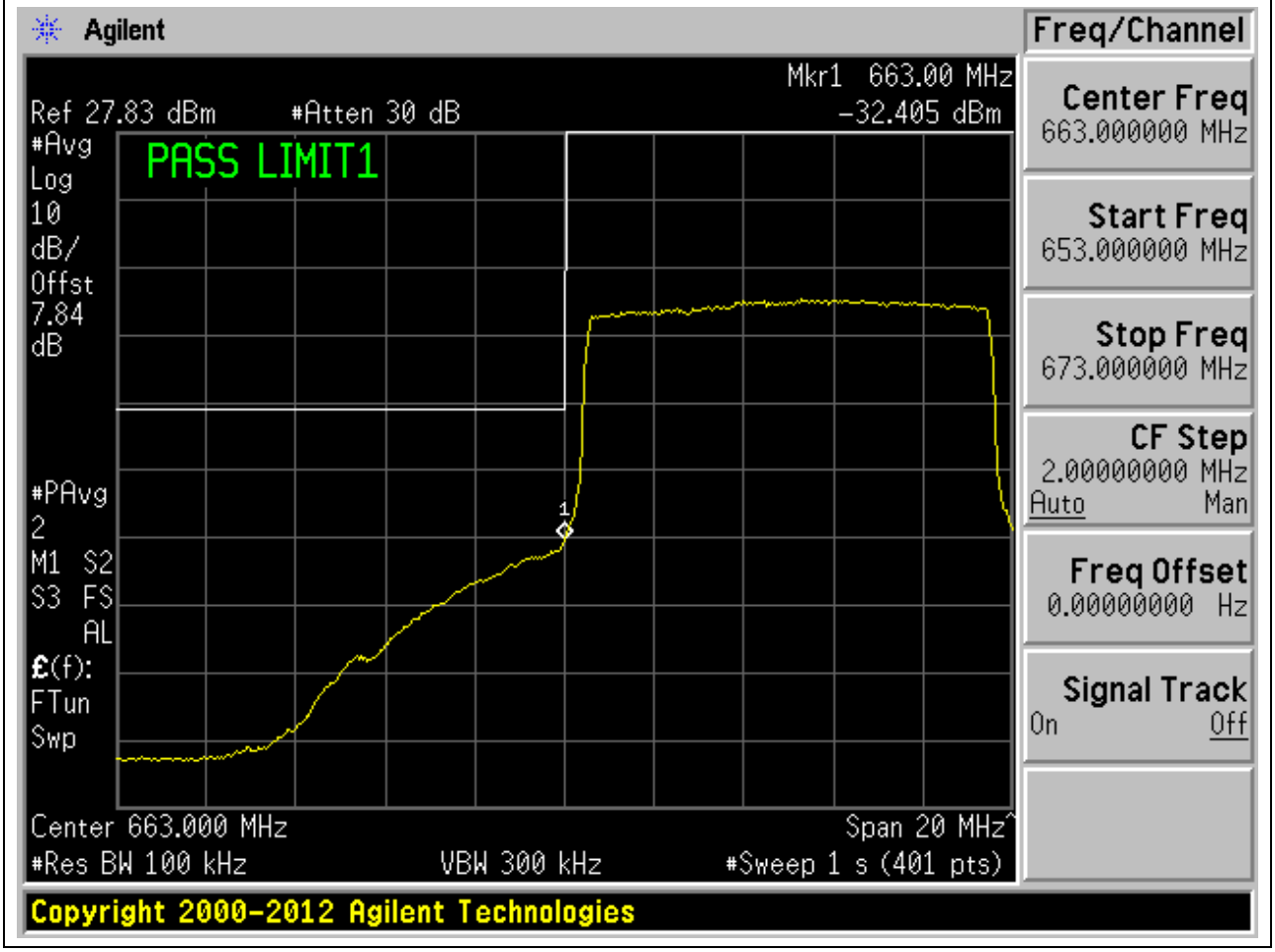
2.9. LTE Band Edge(NTNV)(Subtest:9, Channel:133172, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	20	0.1	RMS	663	-34.42	Pass	401



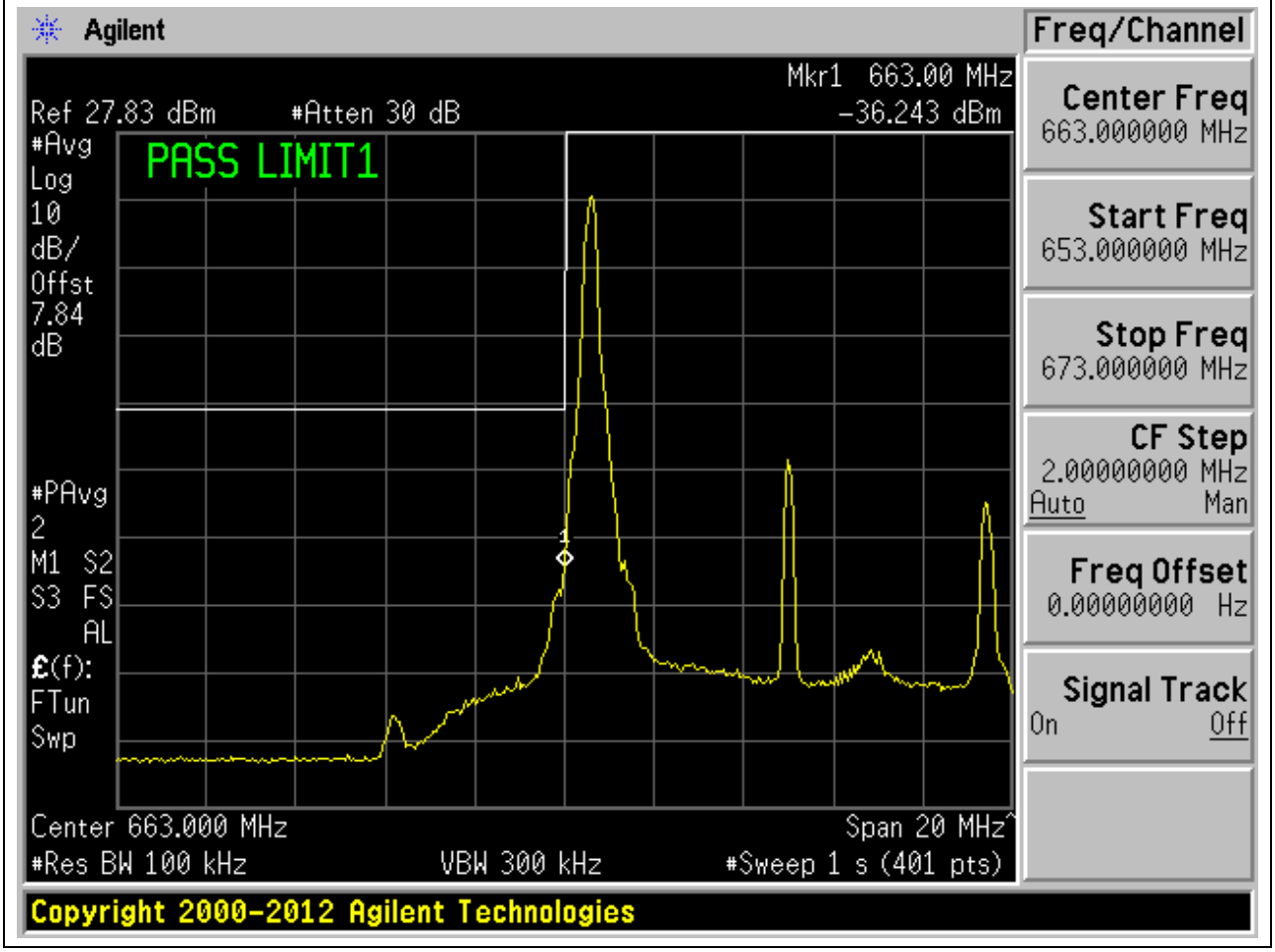
2.10. LTE Band Edge(NTNV)(Subtest:10, Channel:133172, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	20	0.1	RMS	663	-32.4	Pass	401



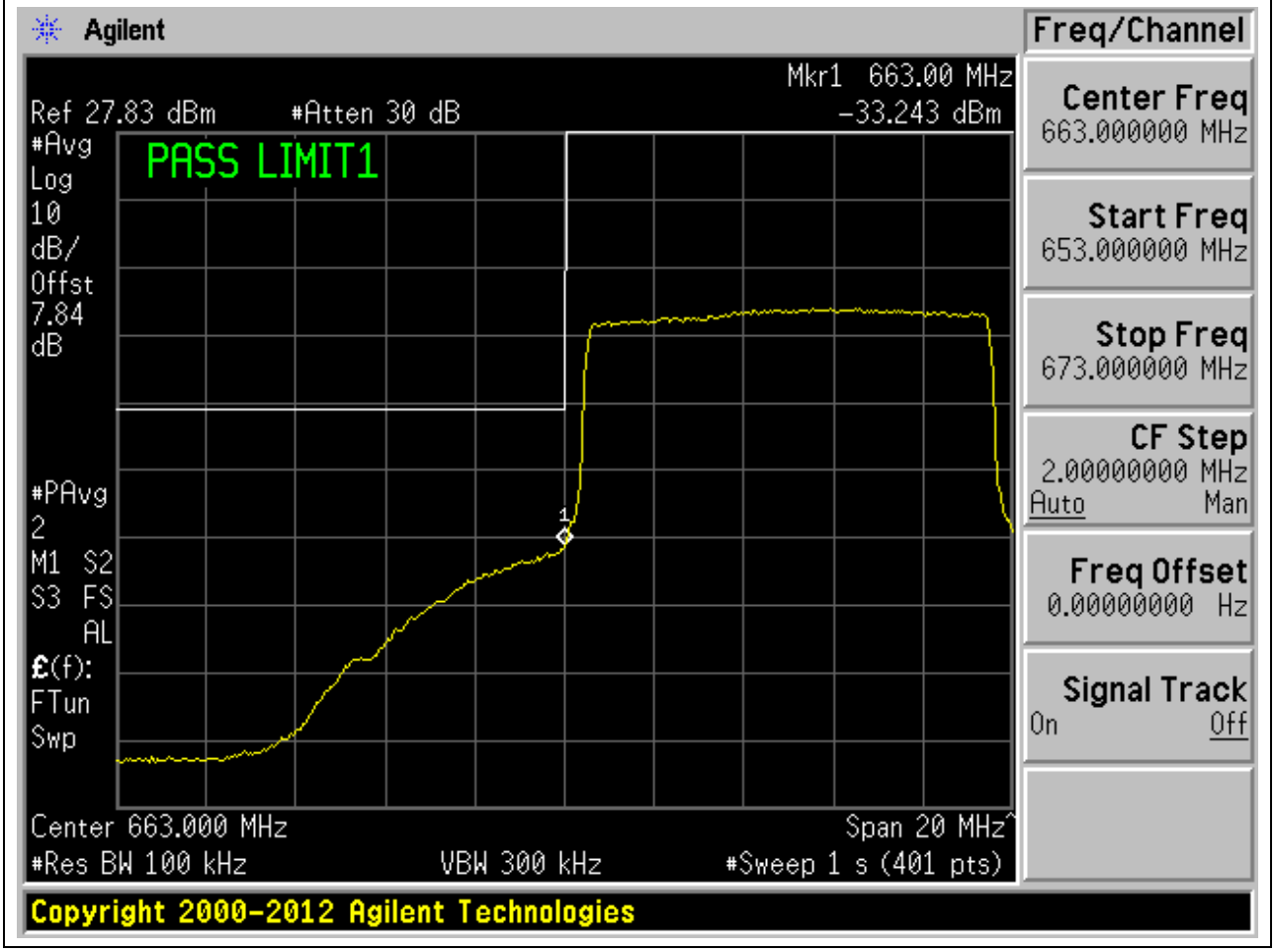
2.11. LTE Band Edge(NTNV)(Subtest:11, Channel:133172, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	20	0.1	RMS	663	-36.24	Pass	401



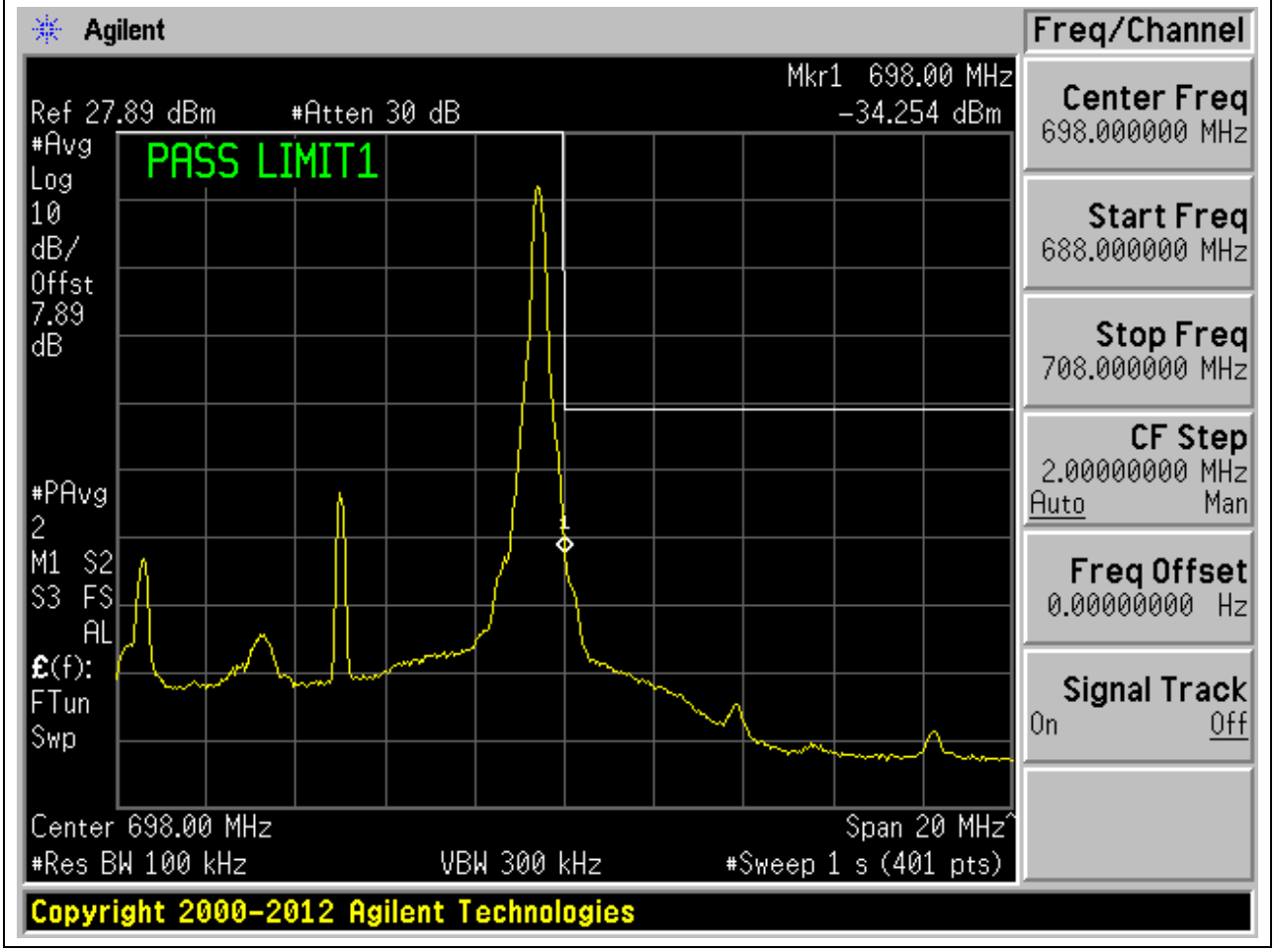
2.12. LTE Band Edge(NTNV)(Subtest:12, Channel:133172, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	20	0.1	RMS	663	-33.24	Pass	401



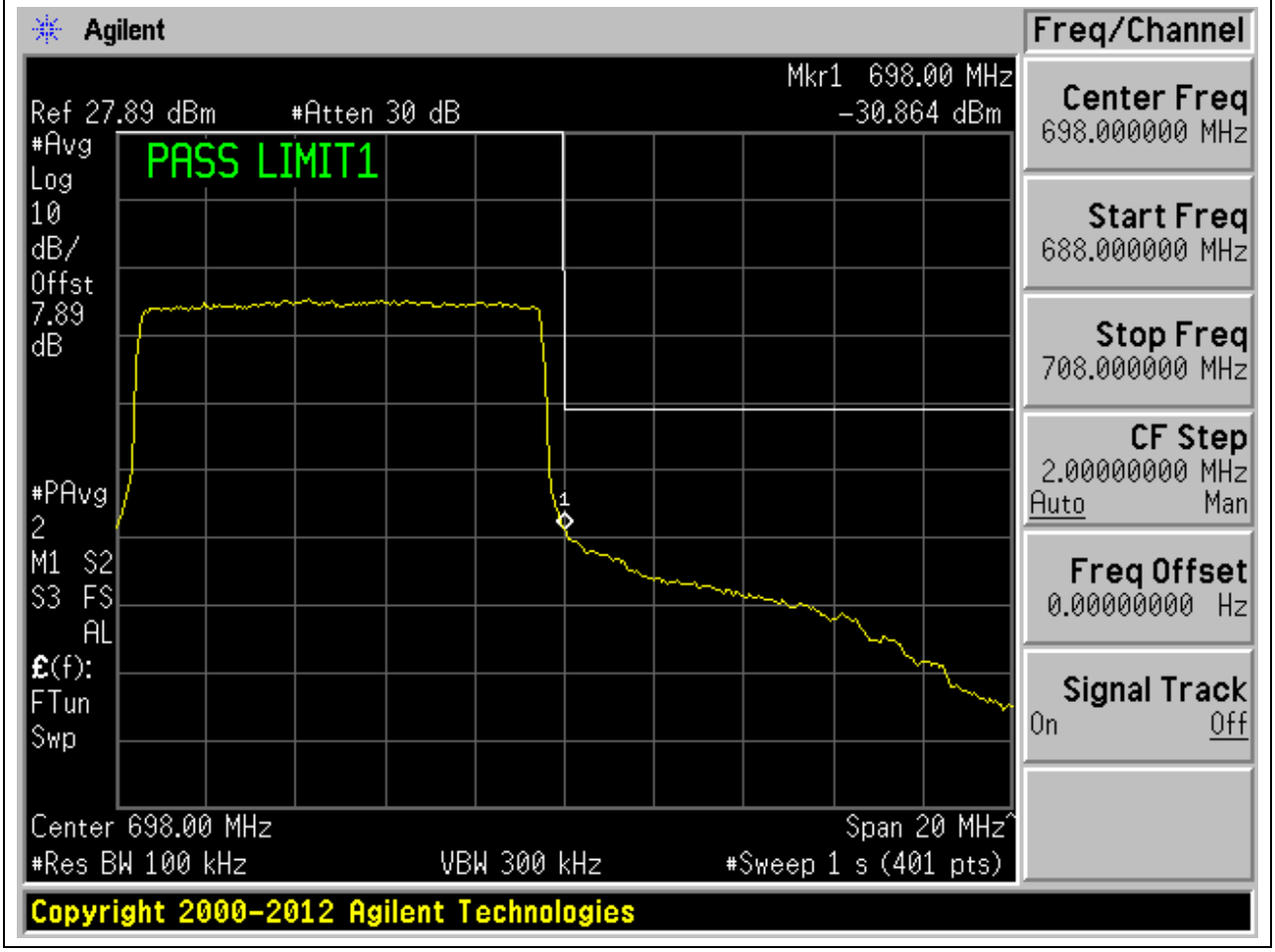
2.13. LTE Band Edge(NTNV)(Subtest:13, Channel:133422, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	20	0.1	RMS	698	-34.25	Pass	401



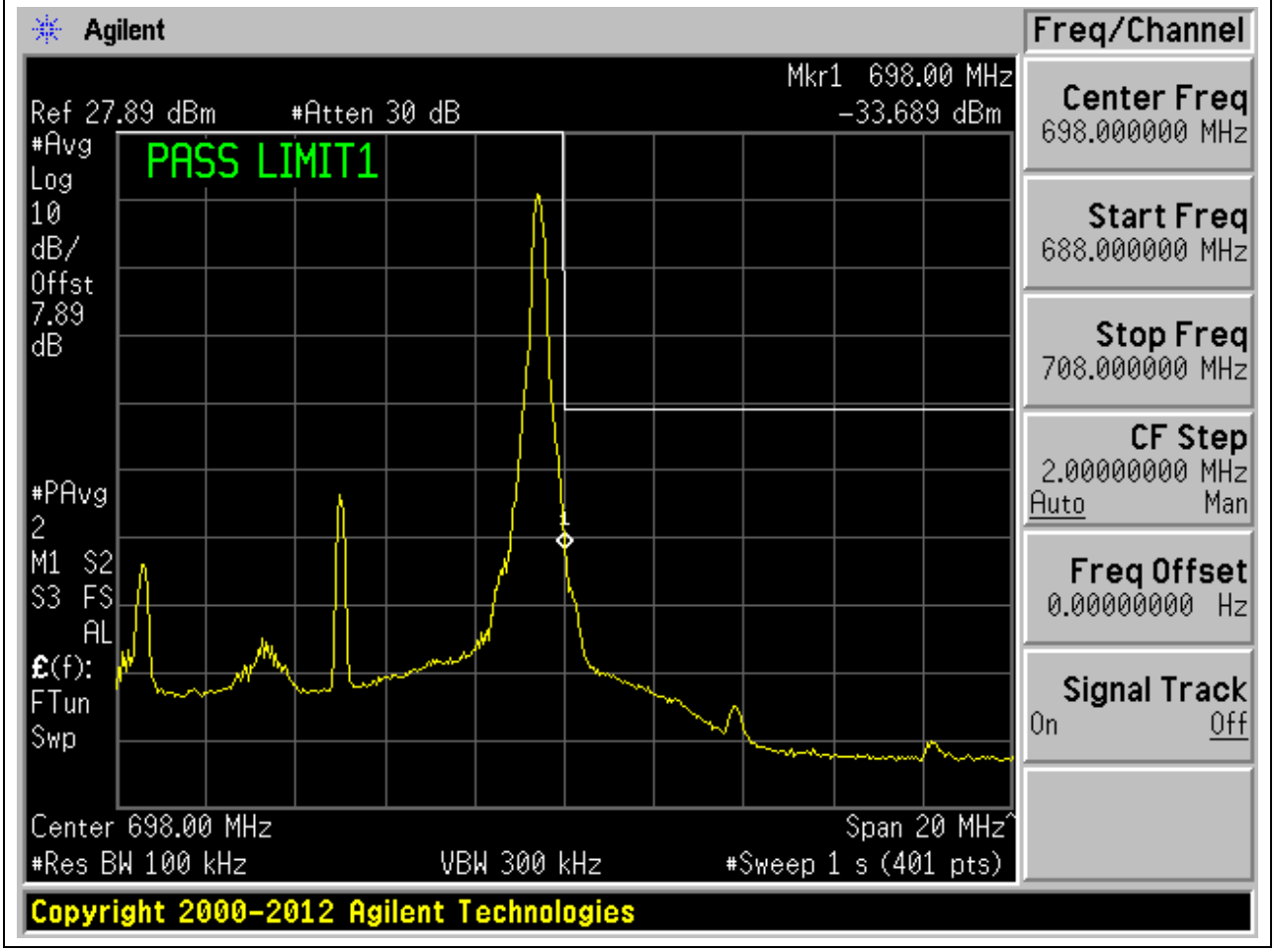
2.14. LTE Band Edge(NTNV)(Subtest:14, Channel:133422, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	20	0.1	RMS	698	-30.86	Pass	401



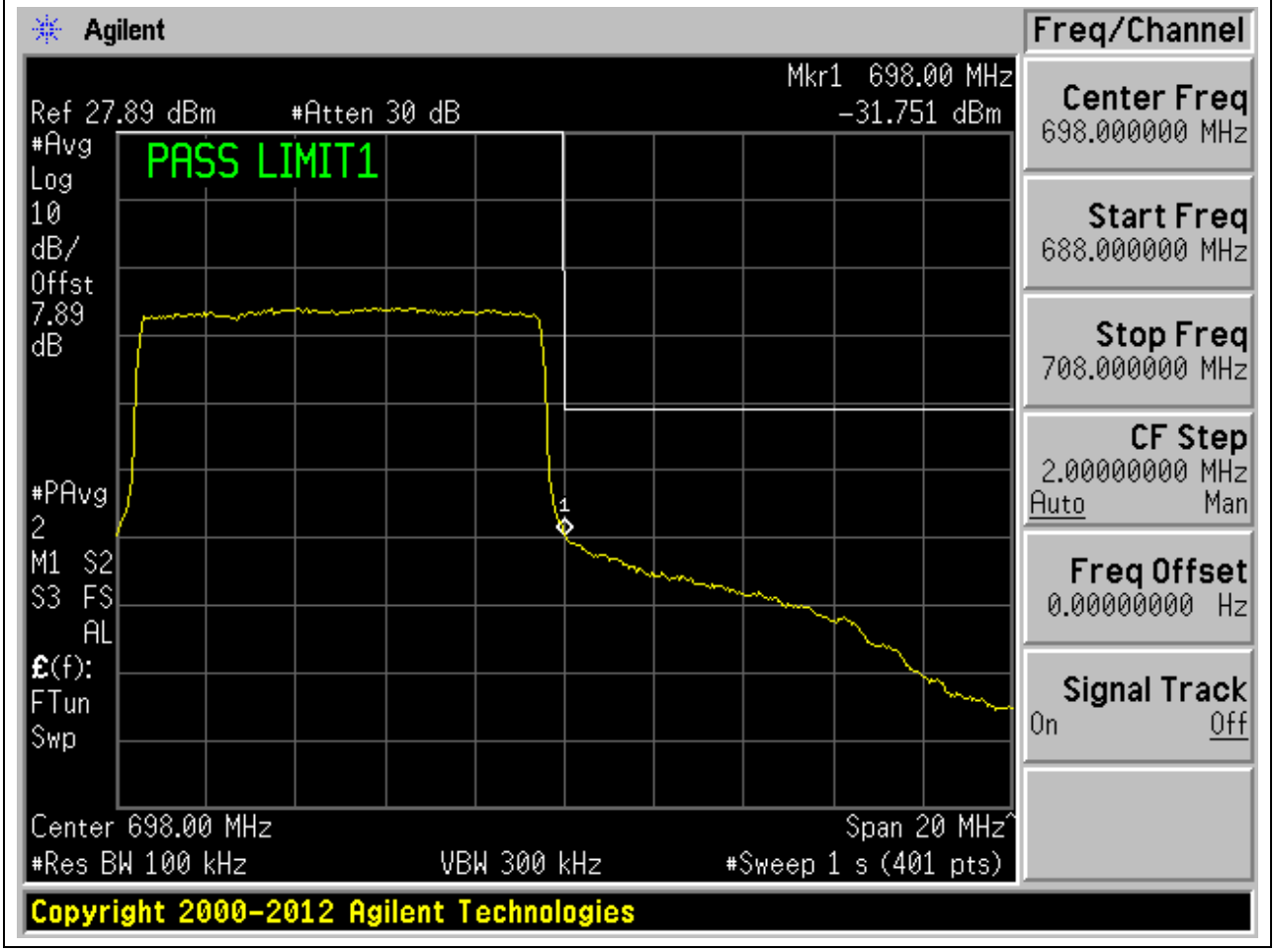
2.15. LTE Band Edge(NTNV)(Subtest:15, Channel:133422, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	20	0.1	RMS	698	-33.69	Pass	401



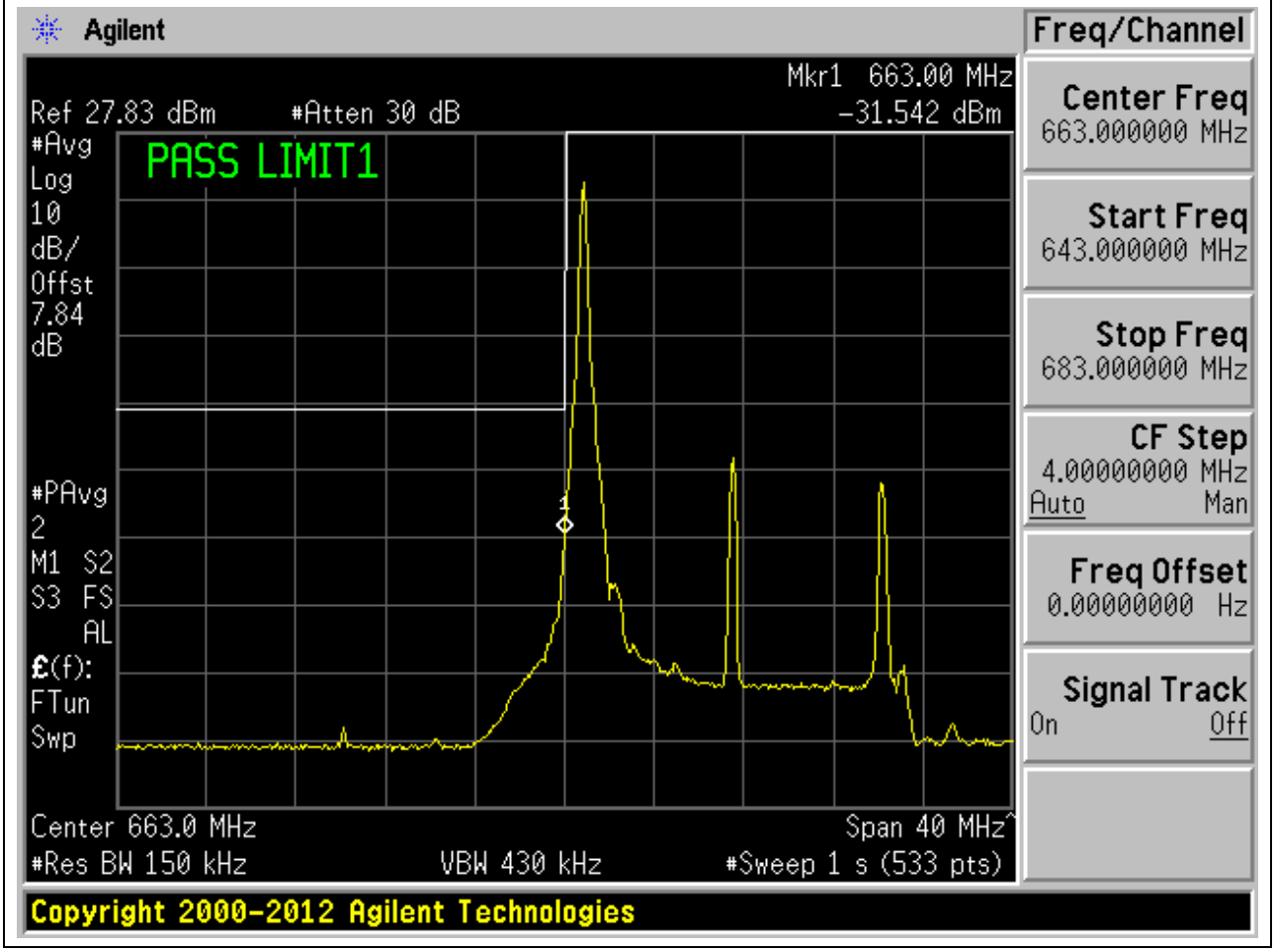
2.16. LTE Band Edge(NTNV)(Subtest:16, Channel:133422, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	20	0.1	RMS	698	-31.75	Pass	401



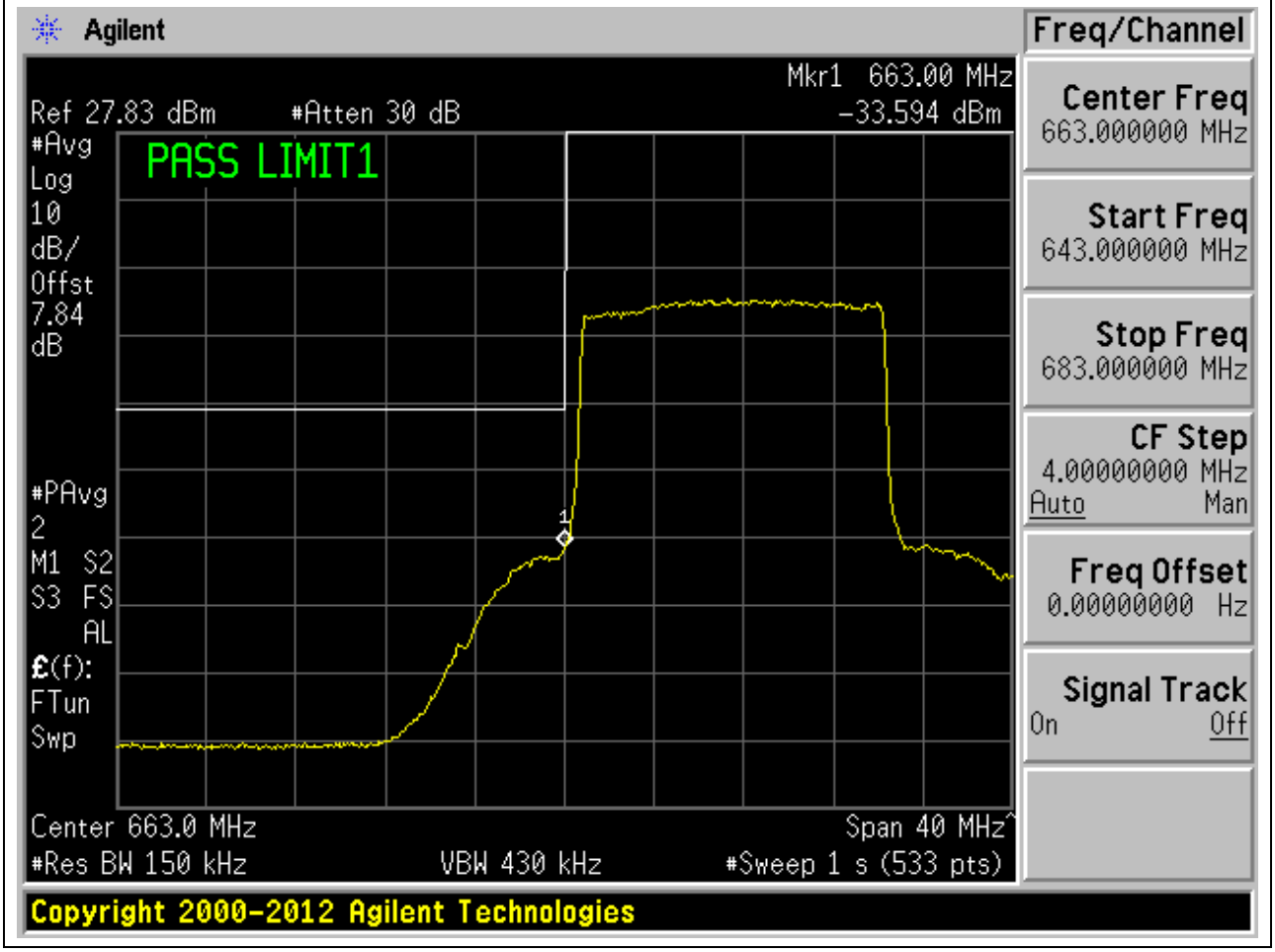
2.17. LTE Band Edge(NTNV)(Subtest:17, Channel:133197, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	40	0.15	RMS	663	-31.54	Pass	533



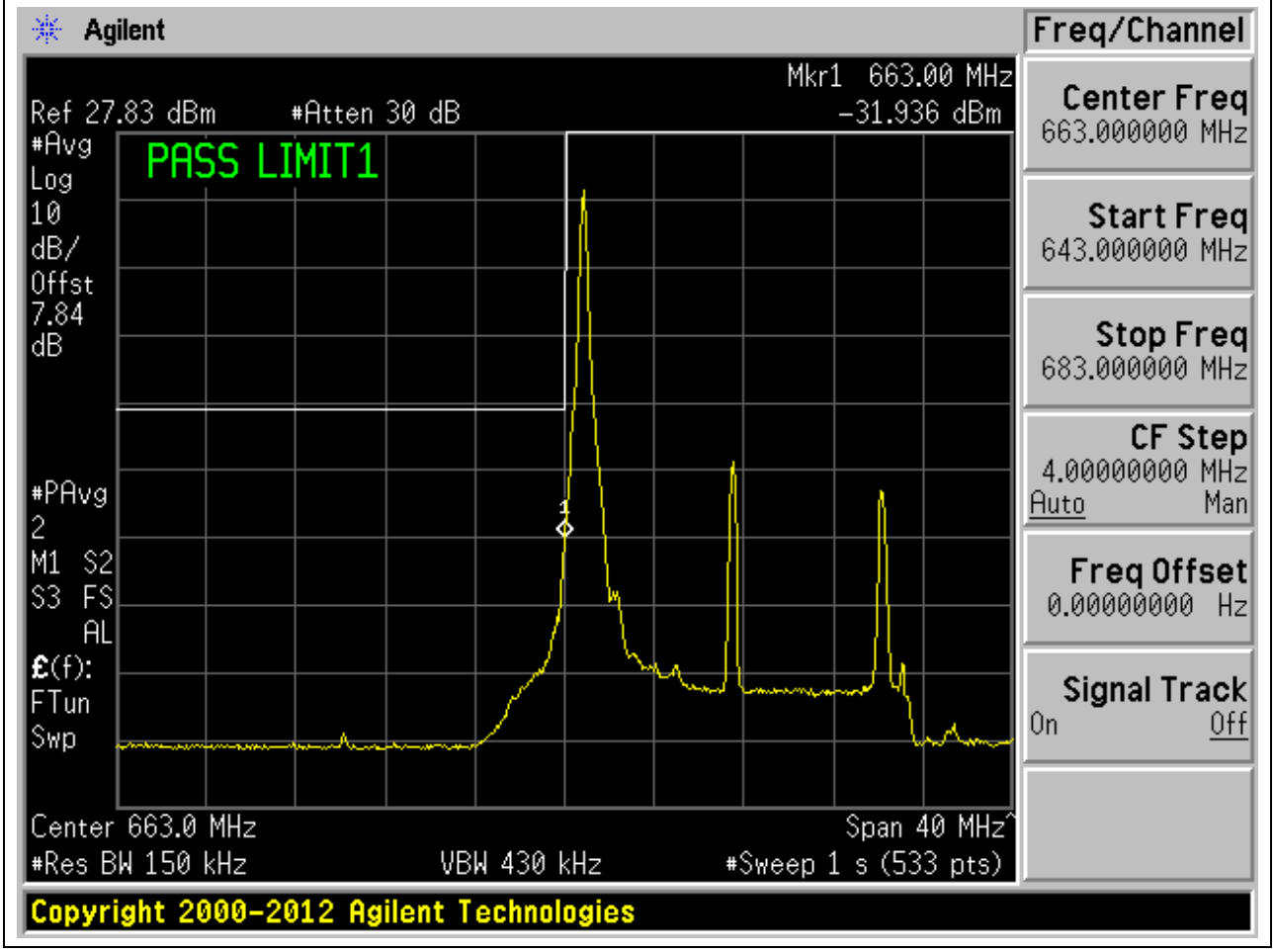
2.18. LTE Band Edge(NTNV)(Subtest:18, Channel:133197, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	40	0.15	RMS	663	-33.59	Pass	533



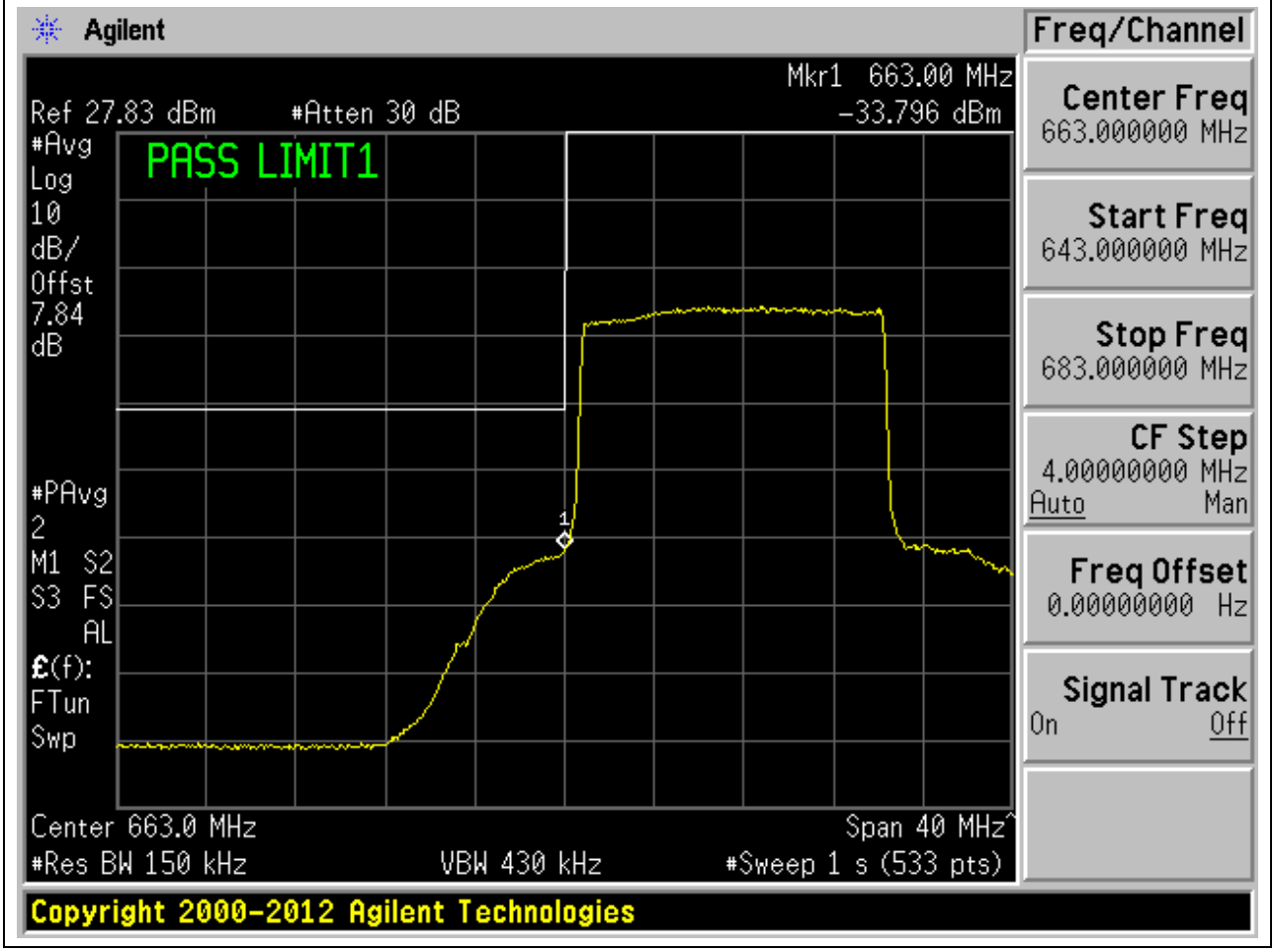
2.19. LTE Band Edge(NTNV)(Subtest:19, Channel:133197, Bandwidth:15, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	40	0.15	RMS	663	-31.94	Pass	533



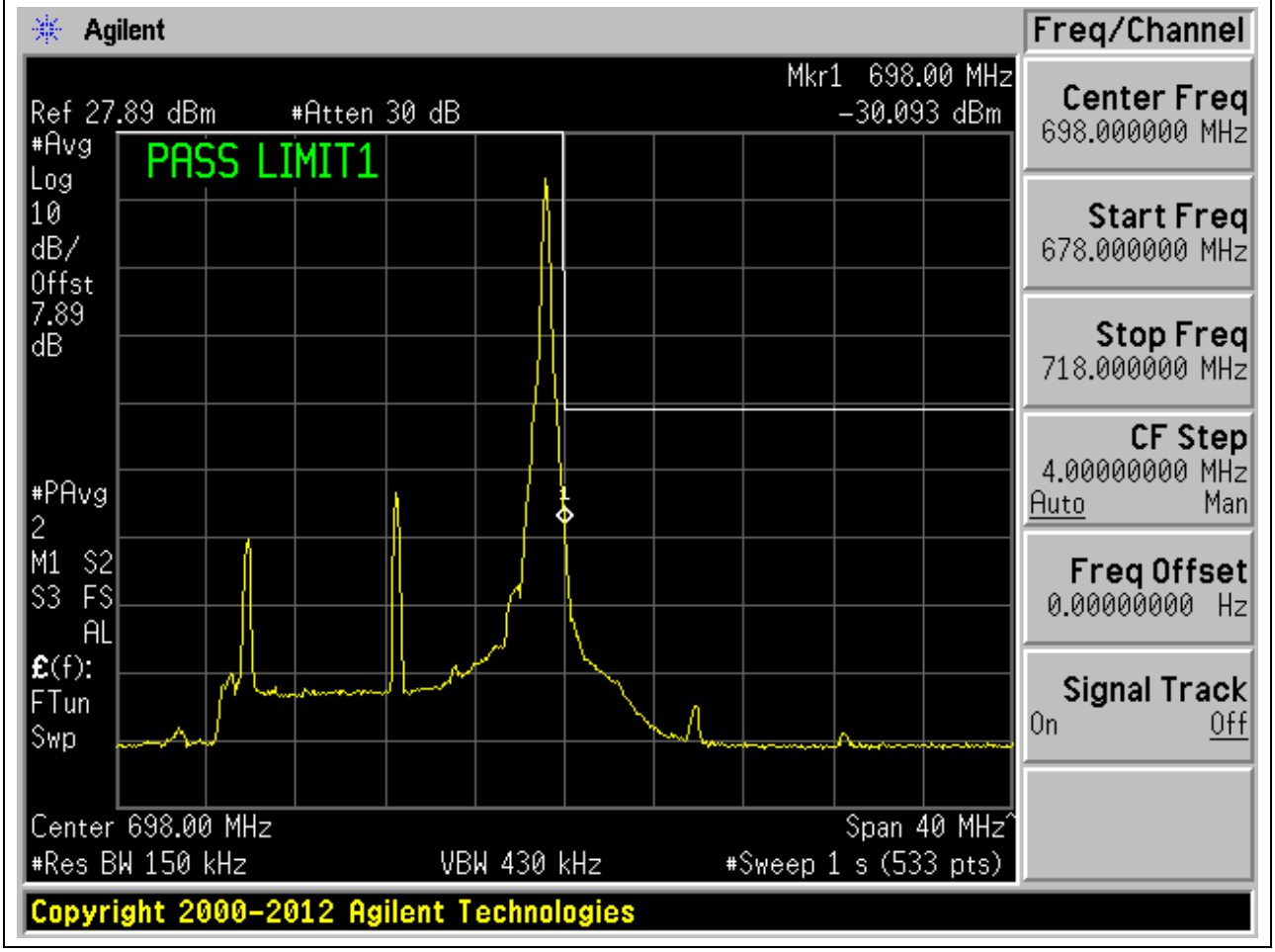
2.20. LTE Band Edge(NTNV)(Subtest:20, Channel:133197, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	40	0.15	RMS	663	-33.8	Pass	533



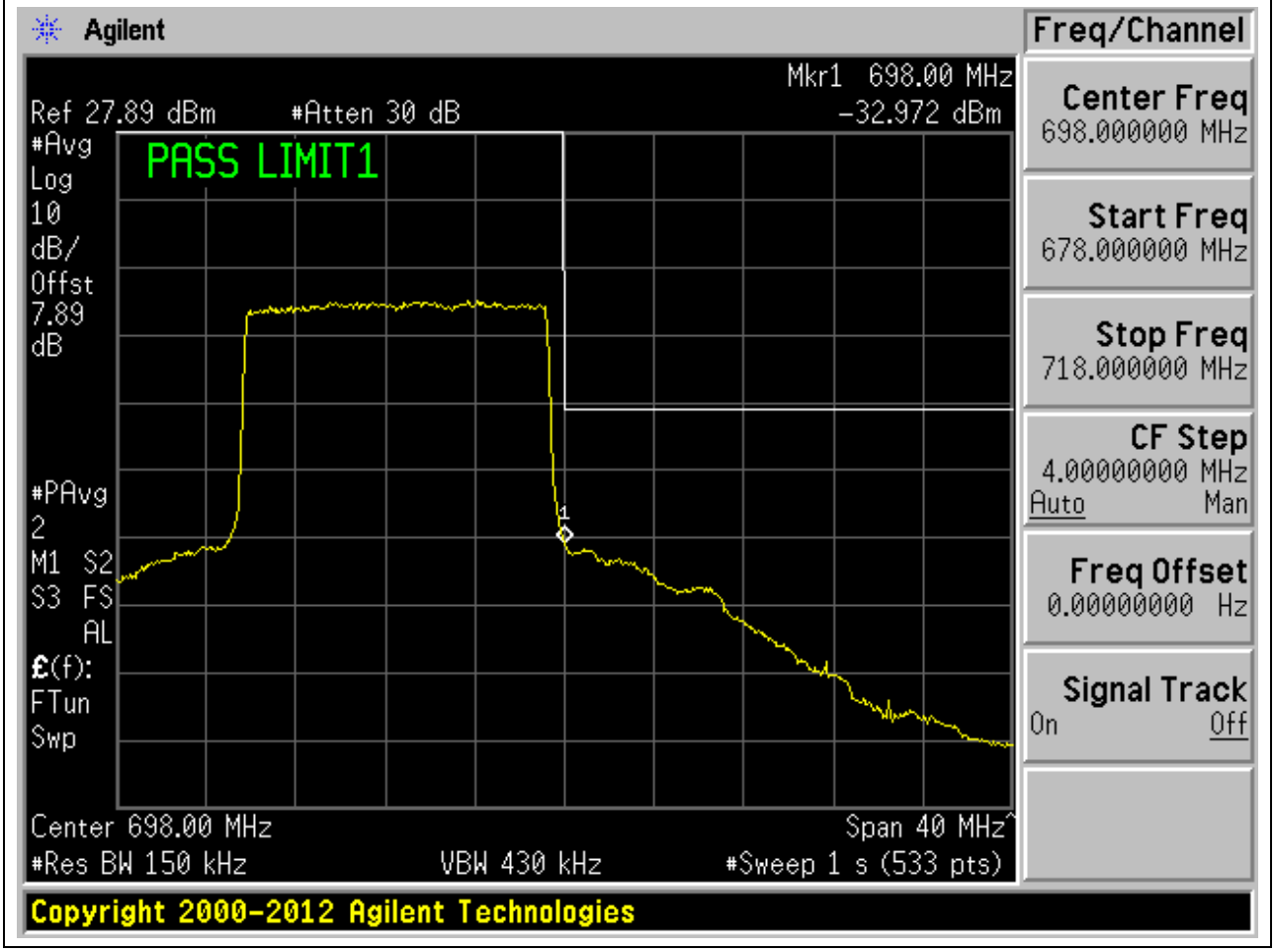
2.21. LTE Band Edge(NTNV)(Subtest:21, Channel:133397, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	40	0.15	RMS	698	-30.09	Pass	533



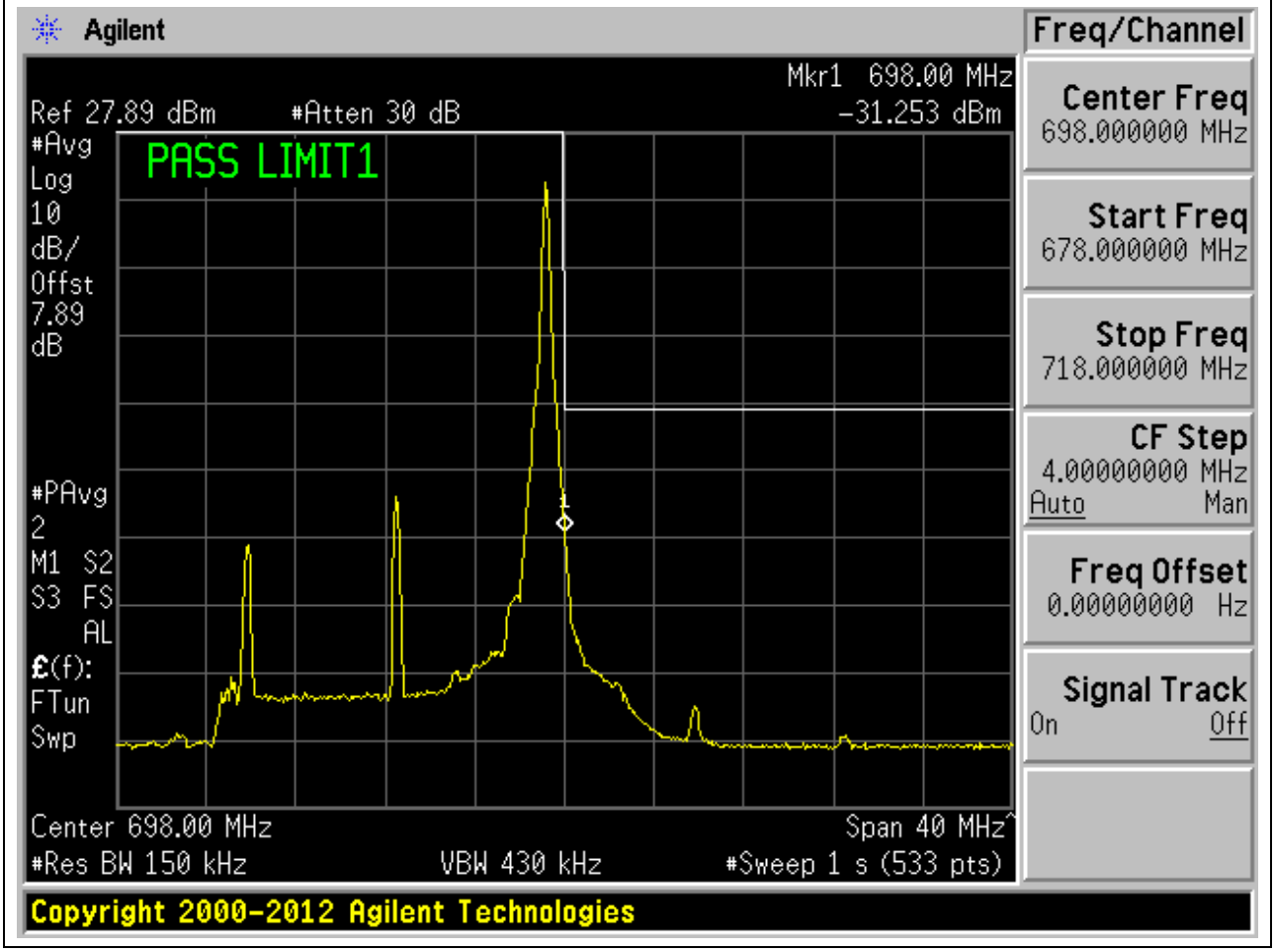
2.22. LTE Band Edge(NTNV)(Subtest:22, Channel:133397, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	40	0.15	RMS	698	-32.97	Pass	533



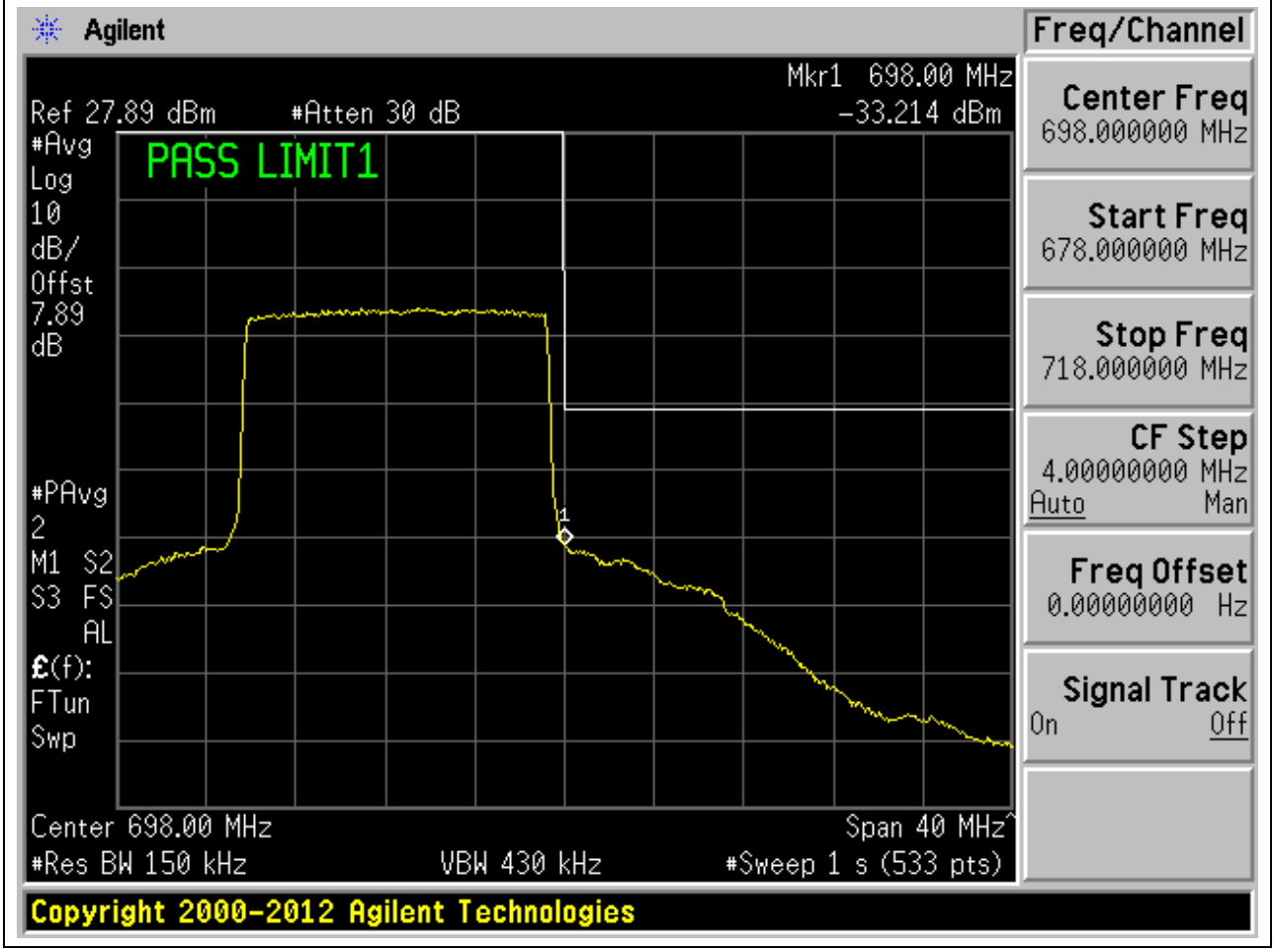
2.23. LTE Band Edge(NTNV)(Subtest:23, Channel:133397, Bandwidth:15, Modulation:Q16, RB Number: 1, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	40	0.15	RMS	698	-31.25	Pass	533



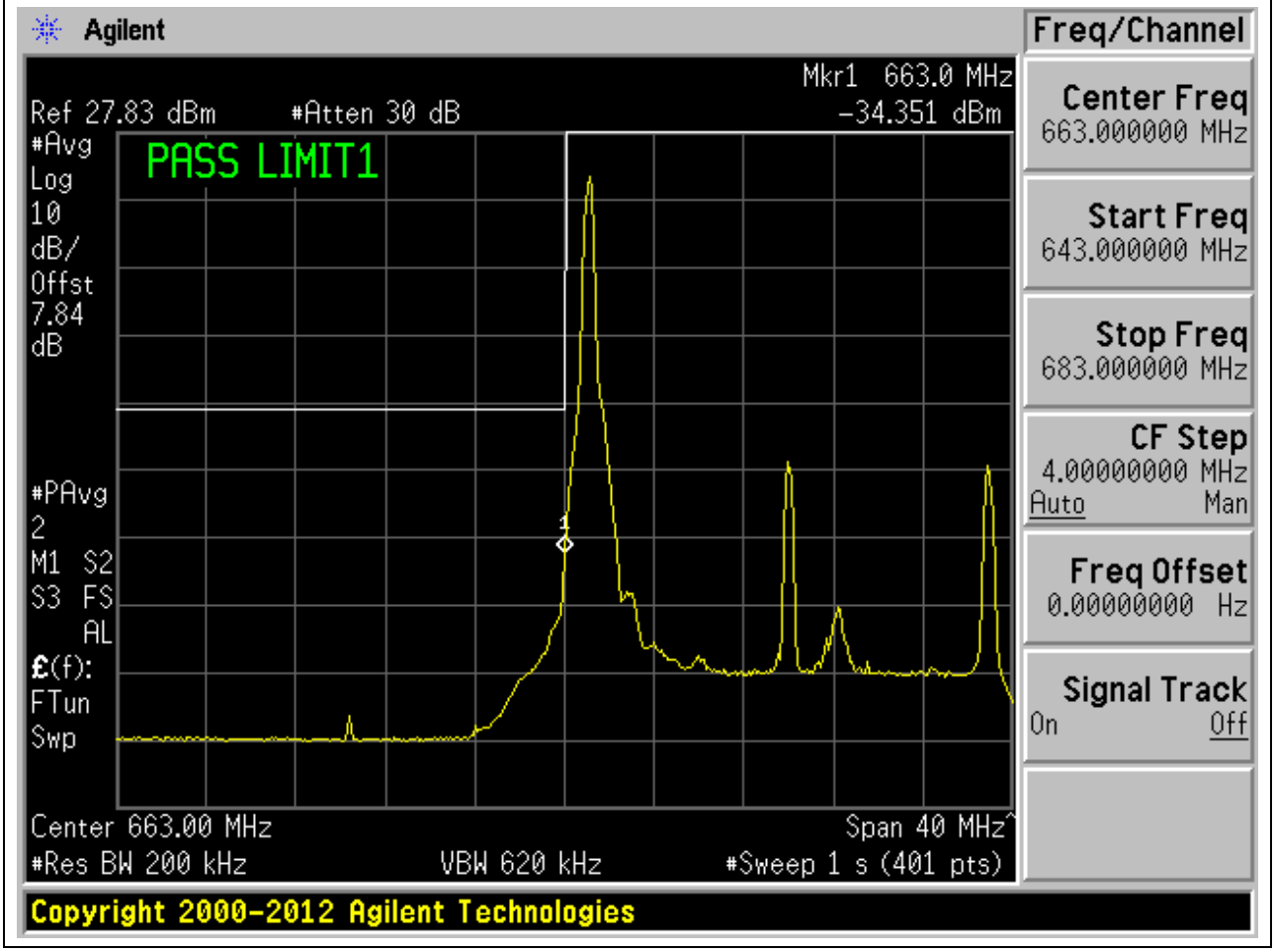
2.24. LTE Band Edge(NTNV)(Subtest:24, Channel:133397, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	40	0.15	RMS	698	-33.21	Pass	533



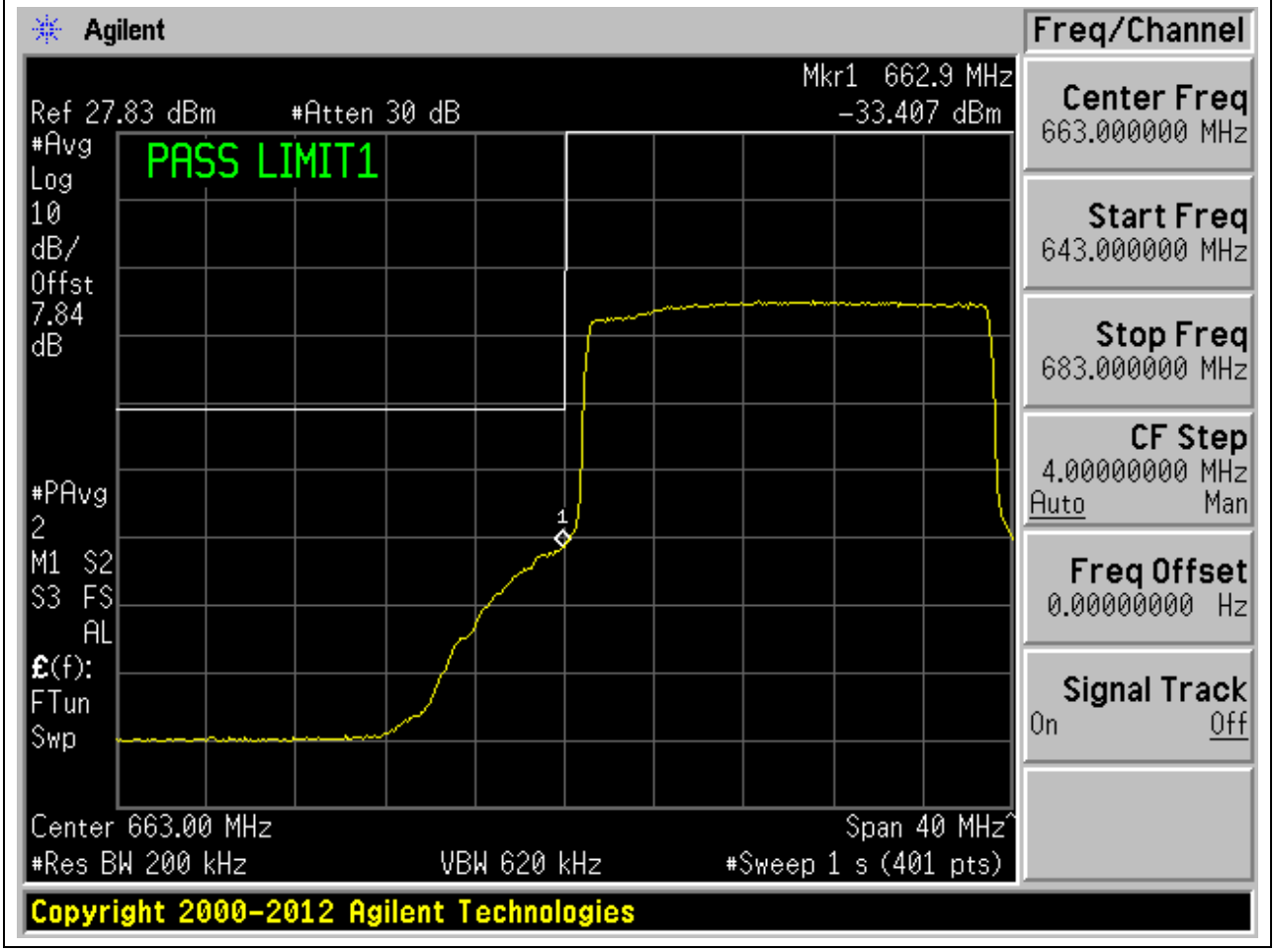
2.25. LTE Band Edge(NTNV)(Subtest:25, Channel:133222, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	40	0.2	RMS	663	-34.35	Pass	401



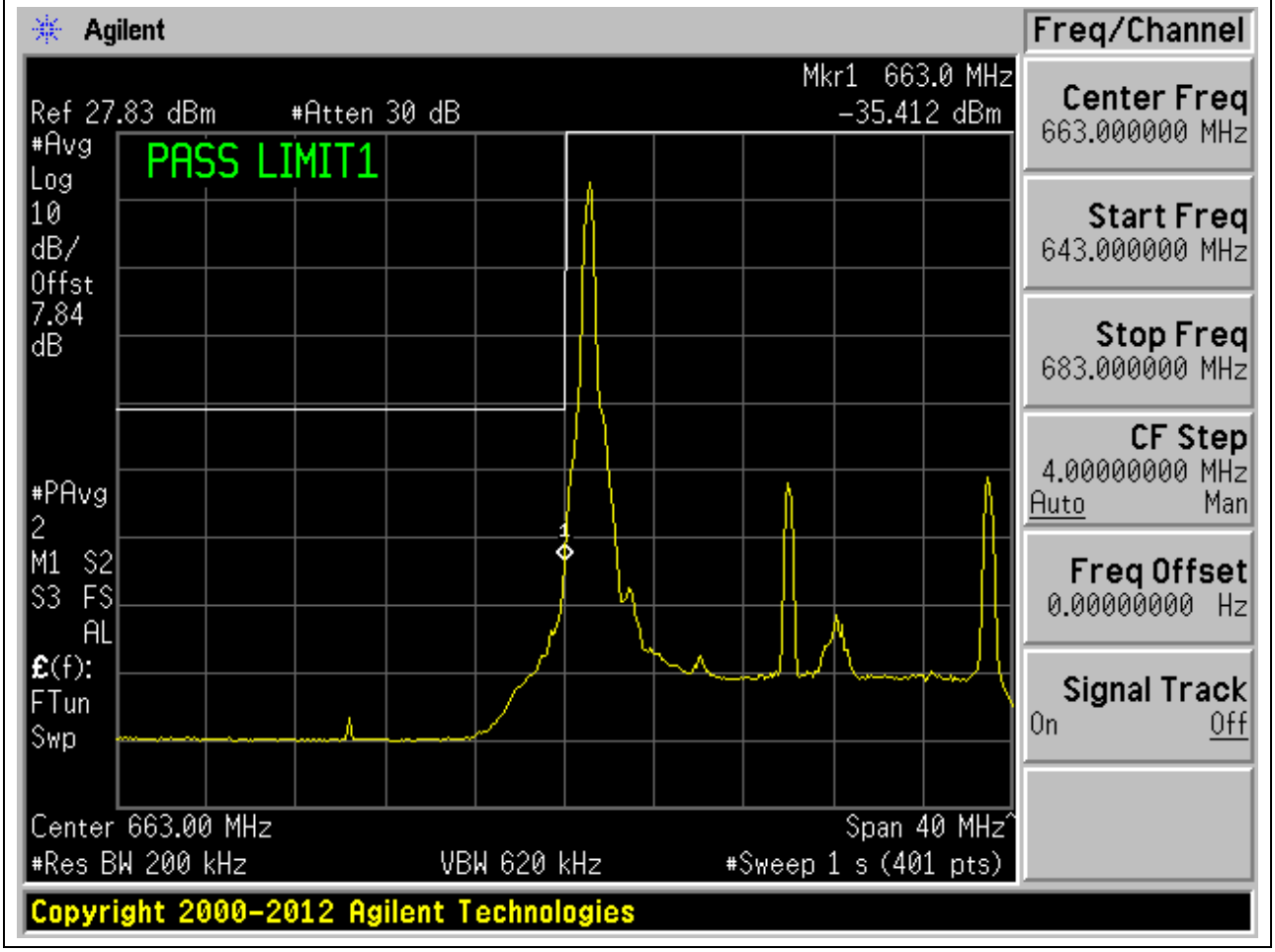
2.26. LTE Band Edge(NTNV)(Subtest:26, Channel:133222, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	40	0.2	RMS	662.9	-33.41	Pass	401



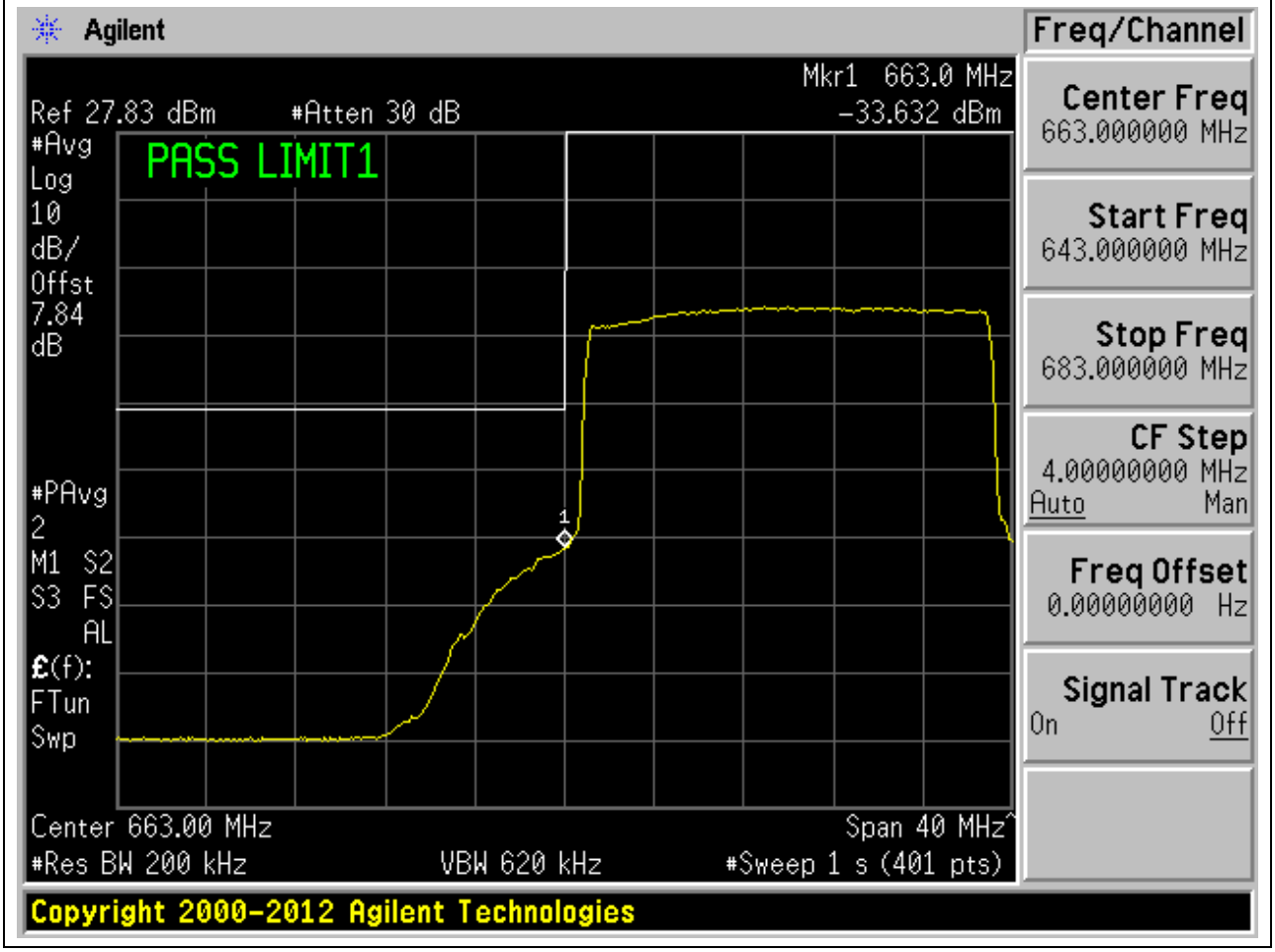
2.27. LTE Band Edge(NTNV)(Subtest:27, Channel:133222, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	40	0.2	RMS	663	-35.41	Pass	401



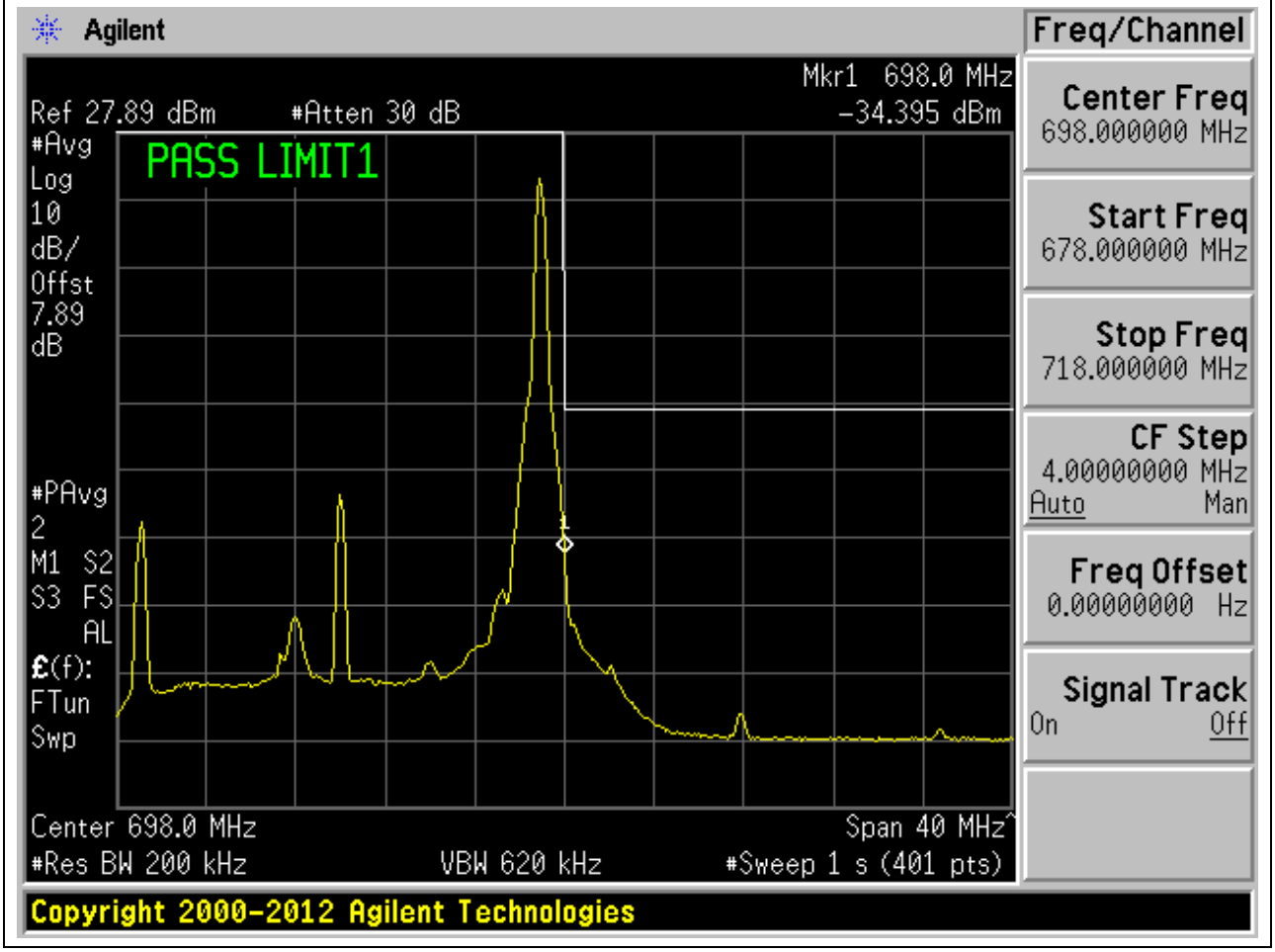
2.28. LTE Band Edge(NTNV)(Subtest:28, Channel:133222, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
663	40	0.2	RMS	663	-33.63	Pass	401



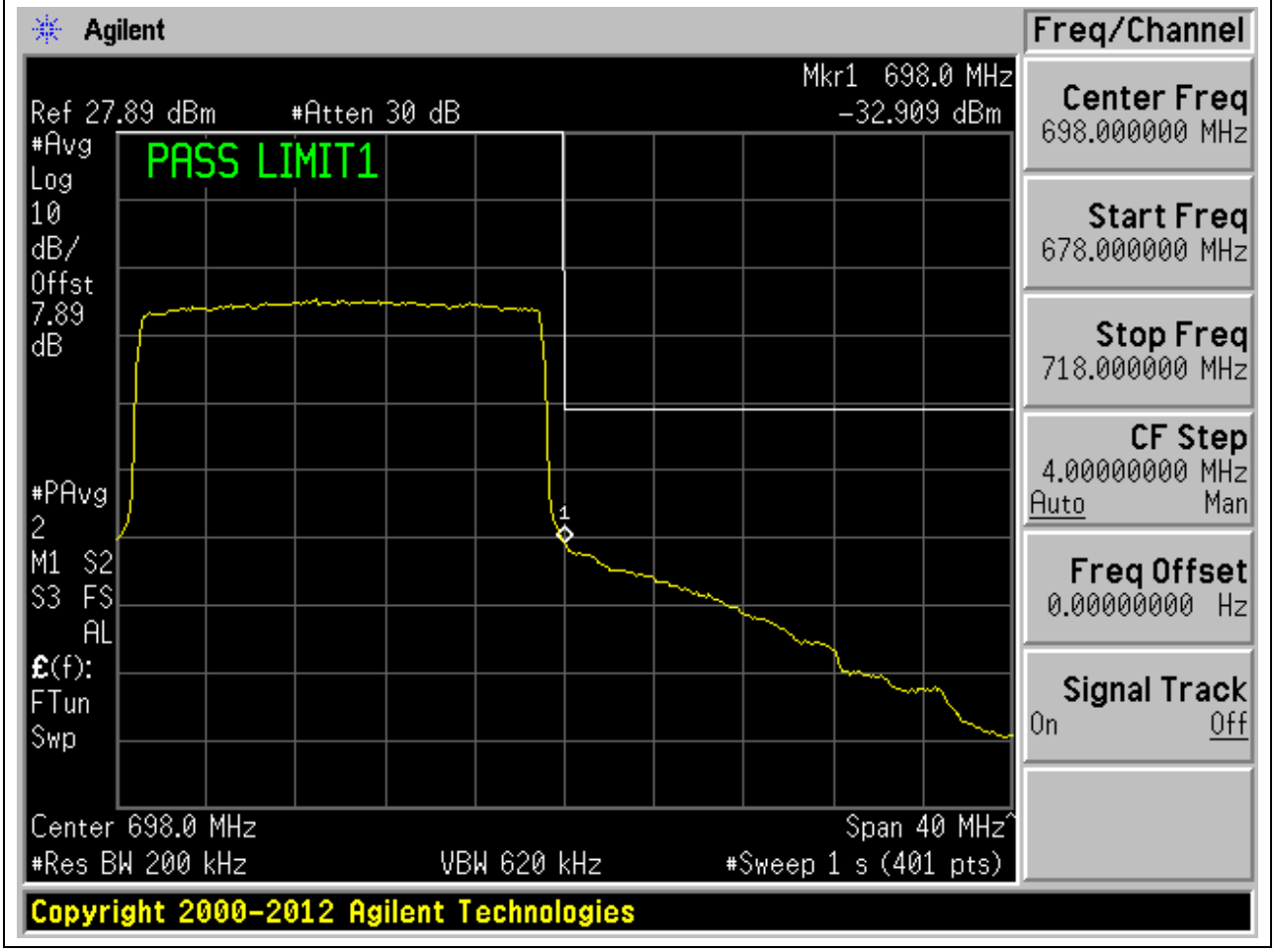
2.29. LTE Band Edge(NTNV)(Subtest:29, Channel:133372, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	40	0.2	RMS	698	-34.4	Pass	401



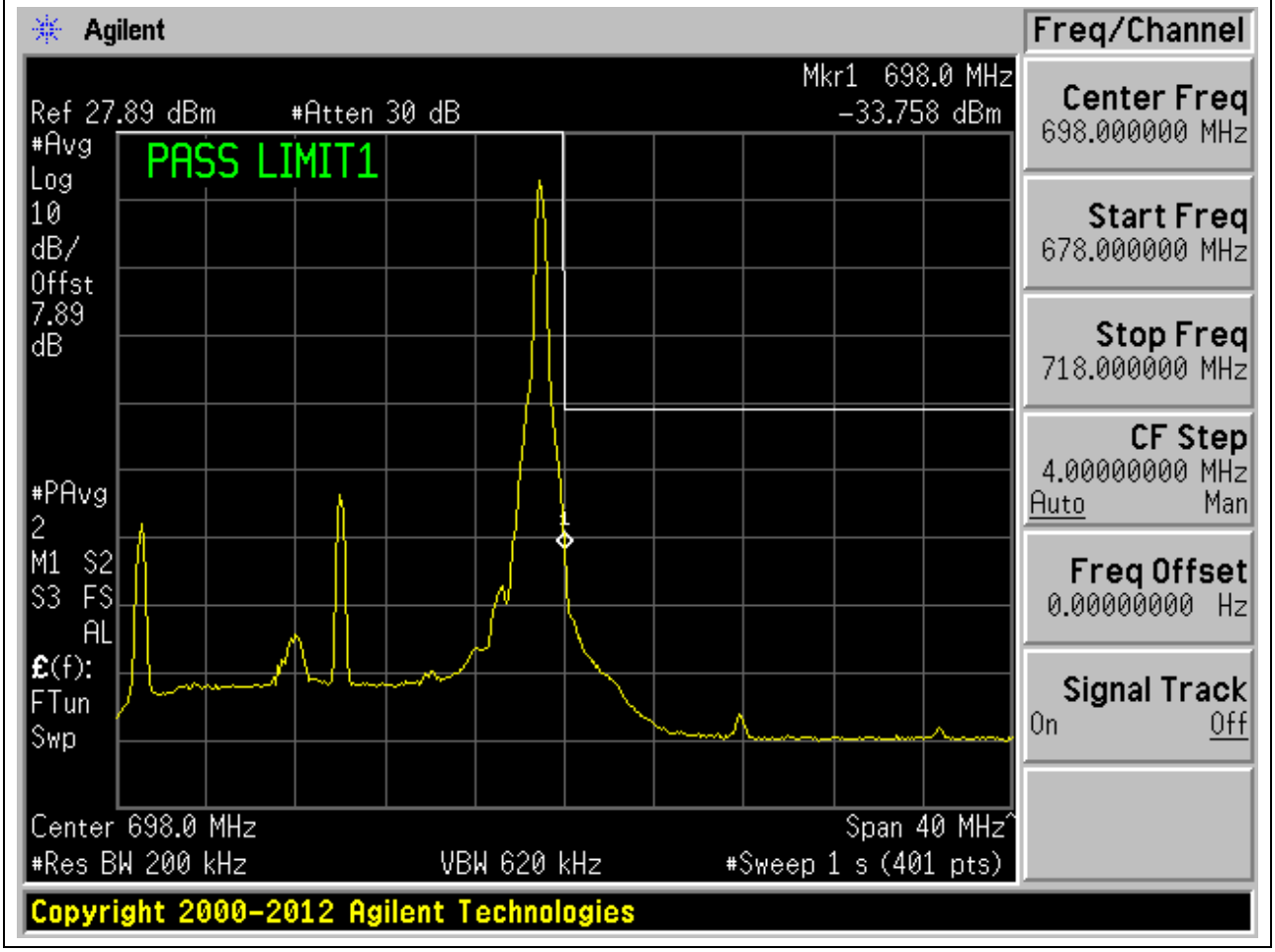
2.30. LTE Band Edge(NTNV)(Subtest:30, Channel:133372, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	40	0.2	RMS	698	-32.91	Pass	401



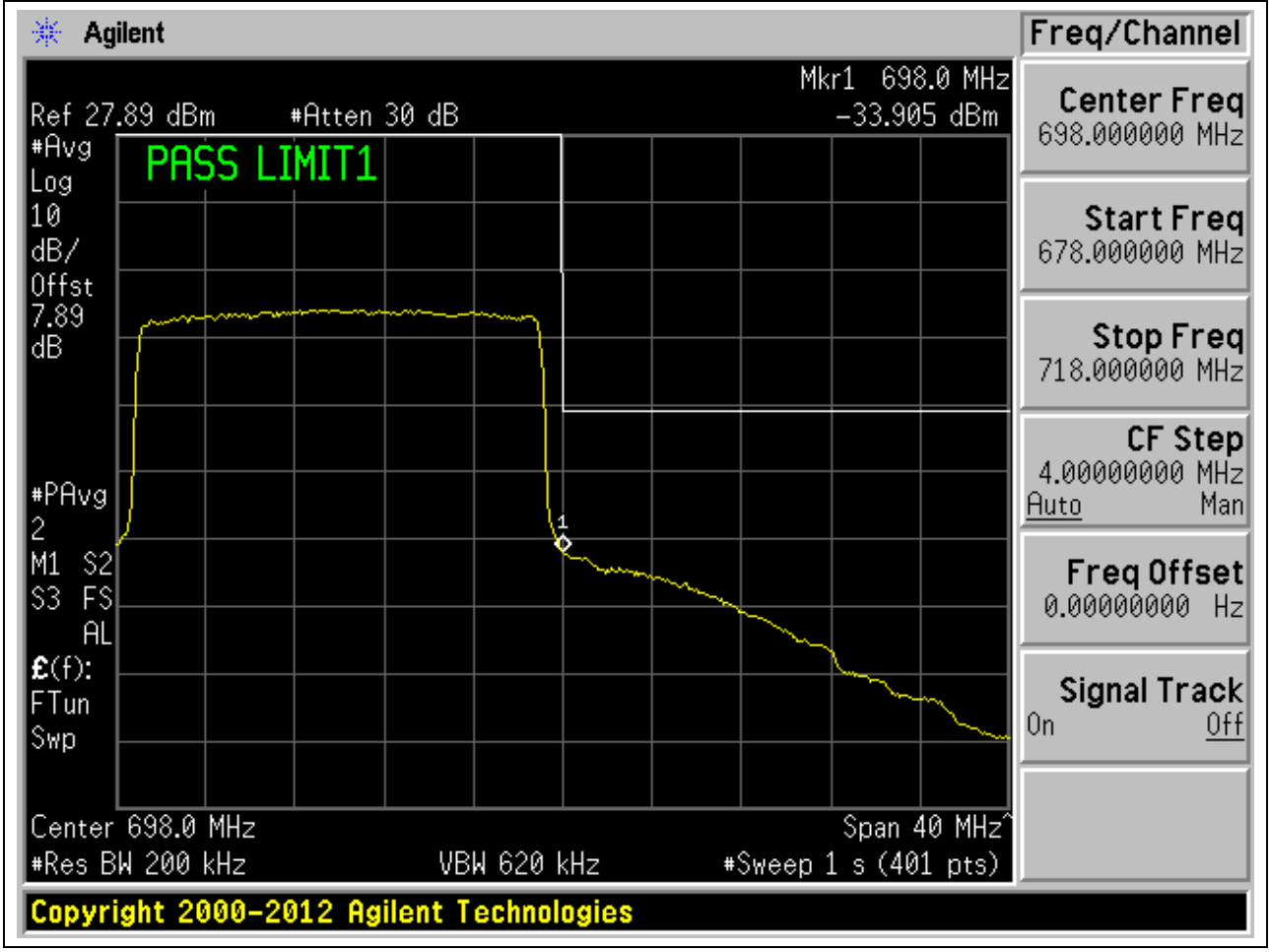
2.31. LTE Band Edge(NTNV)(Subtest:31, Channel:133372, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	40	0.2	RMS	698	-33.76	Pass	401



2.32. LTE Band Edge(NTNV)(Subtest:32, Channel:133372, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:HIGH)

Center Frequency (MHz)	Span (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Verdict	Sweep Point
698	40	0.2	RMS	698	-33.9	Pass	401

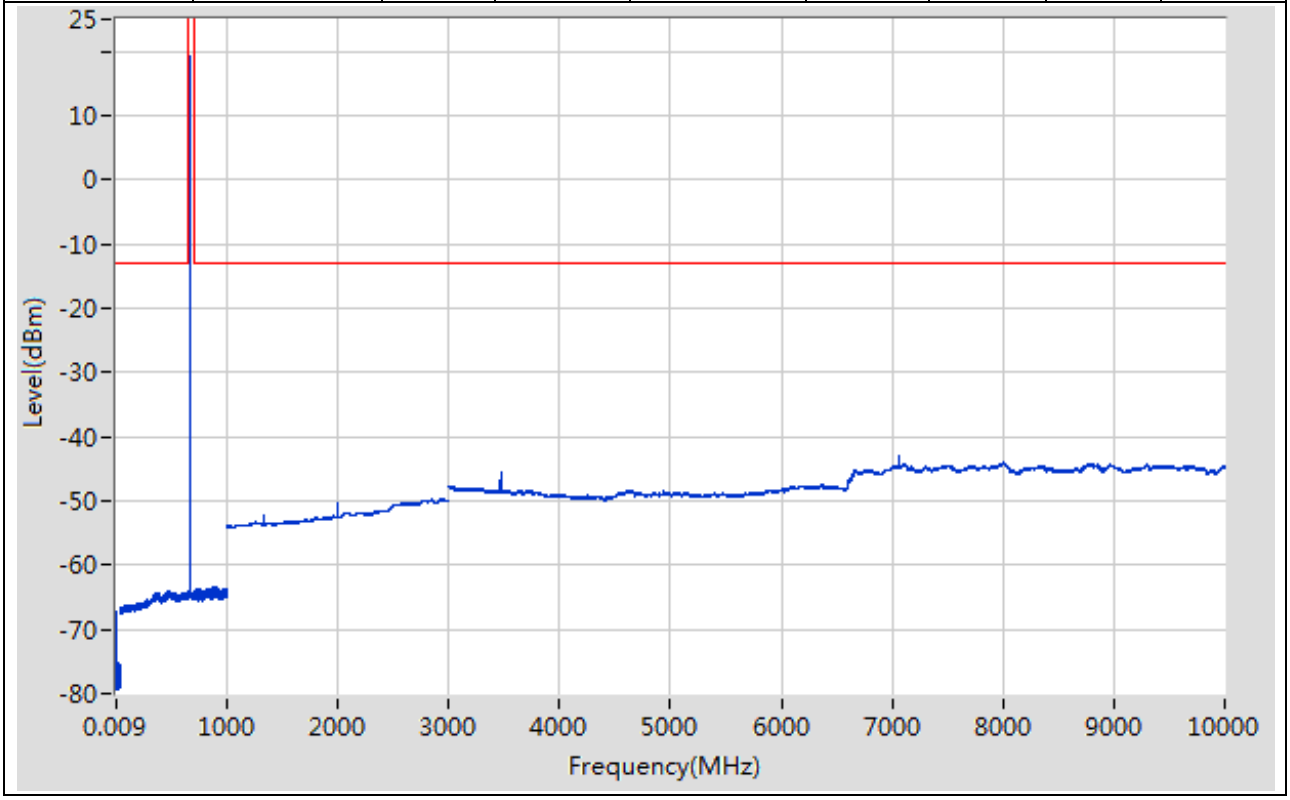


Appendix E: Conducted Spurious Emission

Test Result

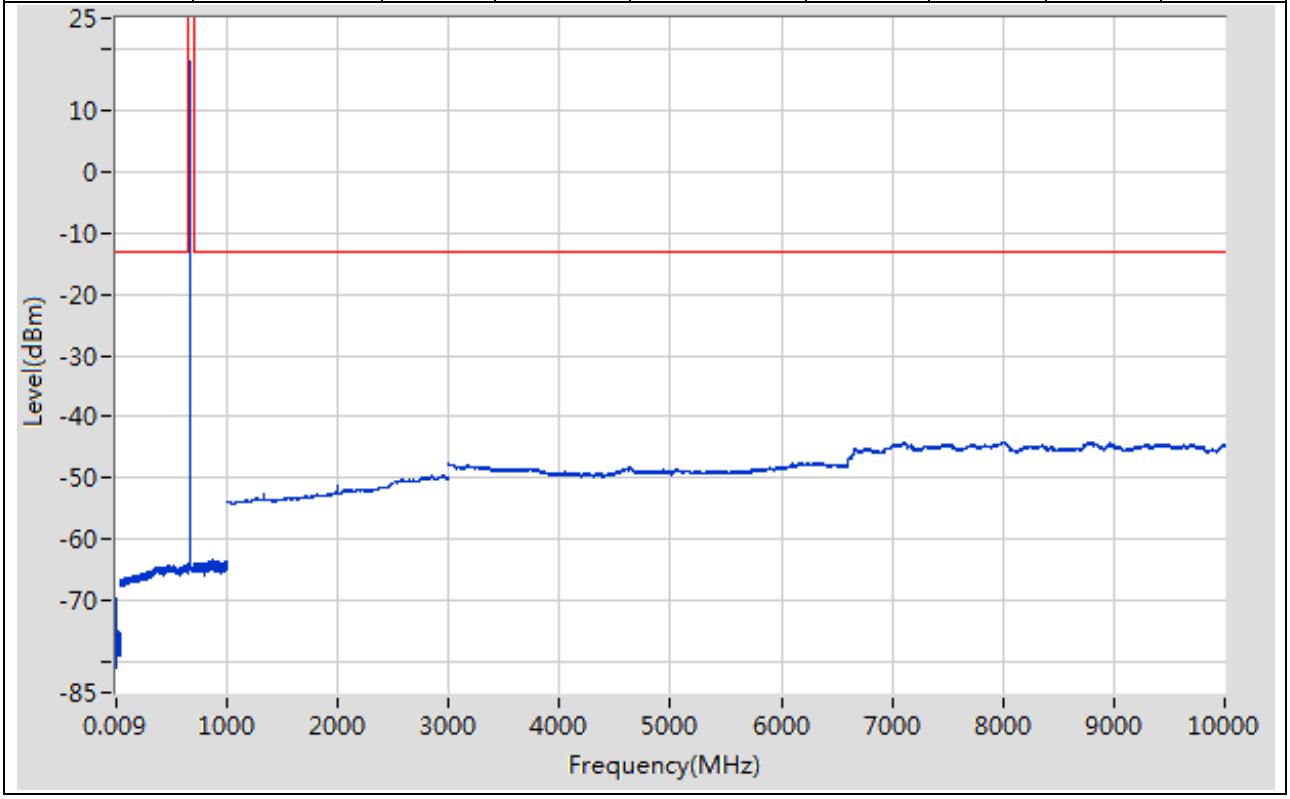
2.1. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:1, Channel:133147, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.059	-71.08	-13	Pass	401
0.15	30	0.01	RMS	0.15	-67.34	-13	Pass	2985
30	653	0.1	RMS	652.6	-63.9	-13	Pass	6230
653	709	0.1	RMS	663.318	19.29	60	Pass	560
709	1000	0.1	RMS	868.655	-63.39	-13	Pass	2910
1000	3000	1	RMS	2947.974	-49.64	-13	Pass	2000
3000	10000	1	RMS	7066.581	-43.01	-13	Pass	7000



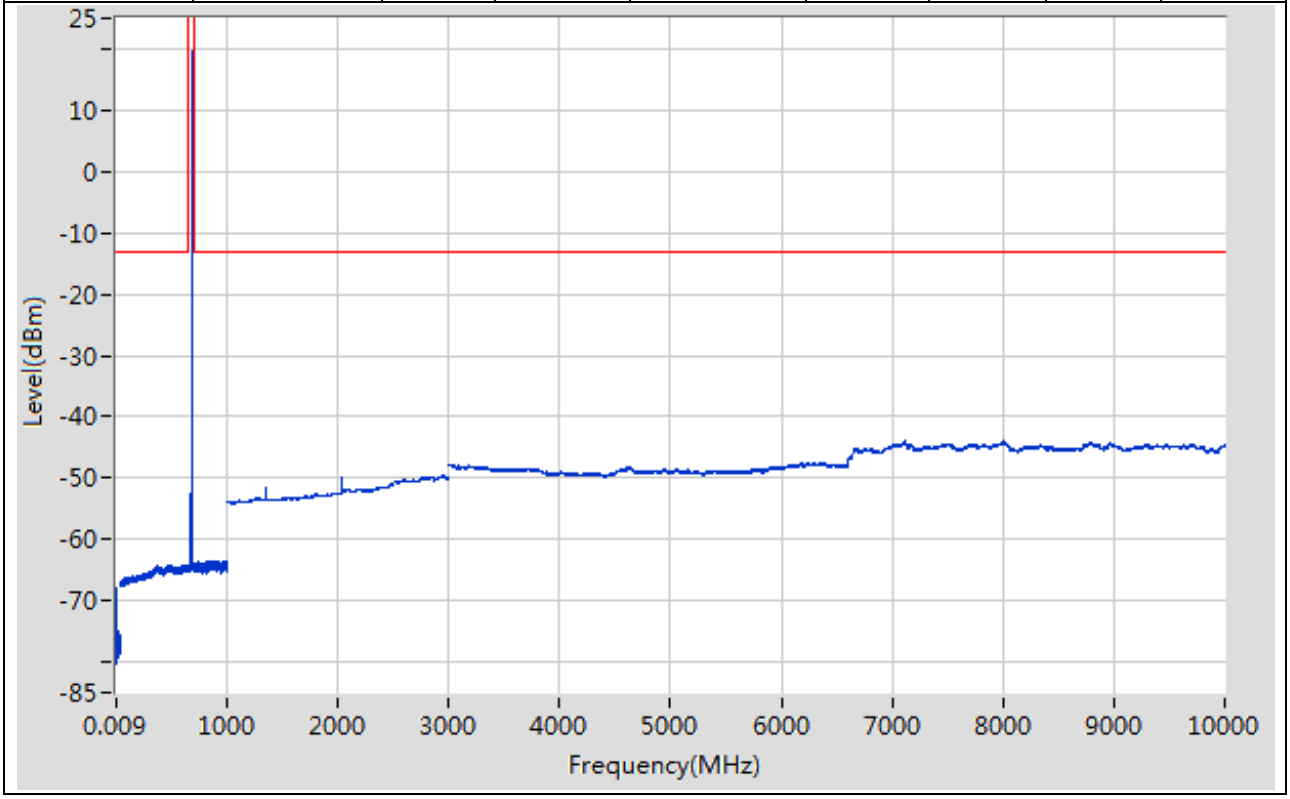
2.2. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:2, Channel:133147, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-70.33	-13	Pass	401
0.15	30	0.01	RMS	0.15	-69.69	-13	Pass	2985
30	653	0.1	RMS	652.6	-64.05	-13	Pass	6230
653	709	0.1	RMS	663.318	18.14	60	Pass	560
709	1000	0.1	RMS	871.856	-63.17	-13	Pass	2910
1000	3000	1	RMS	2945.973	-49.64	-13	Pass	2000
3000	10000	1	RMS	8006.715	-44.08	-13	Pass	7000



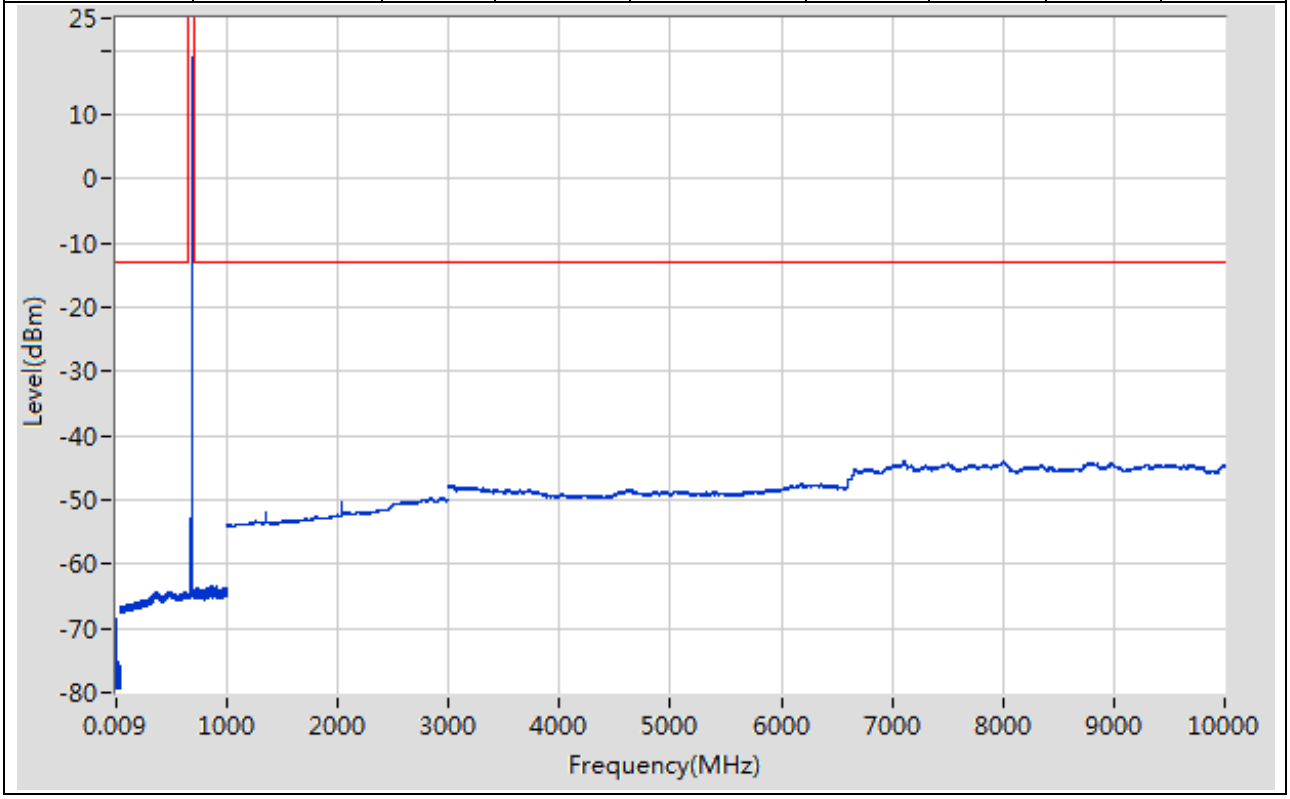
2.3. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:3, Channel:133297, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.088	-71.61	-13	Pass	401
0.15	30	0.01	RMS	0.16	-67.96	-13	Pass	2985
30	653	0.1	RMS	476.872	-64.25	-13	Pass	6230
653	709	0.1	RMS	678.345	19.5	60	Pass	560
709	1000	0.1	RMS	868.255	-63.46	-13	Pass	2910
1000	3000	1	RMS	2945.973	-49.66	-13	Pass	2000
3000	10000	1	RMS	7109.587	-43.97	-13	Pass	7000



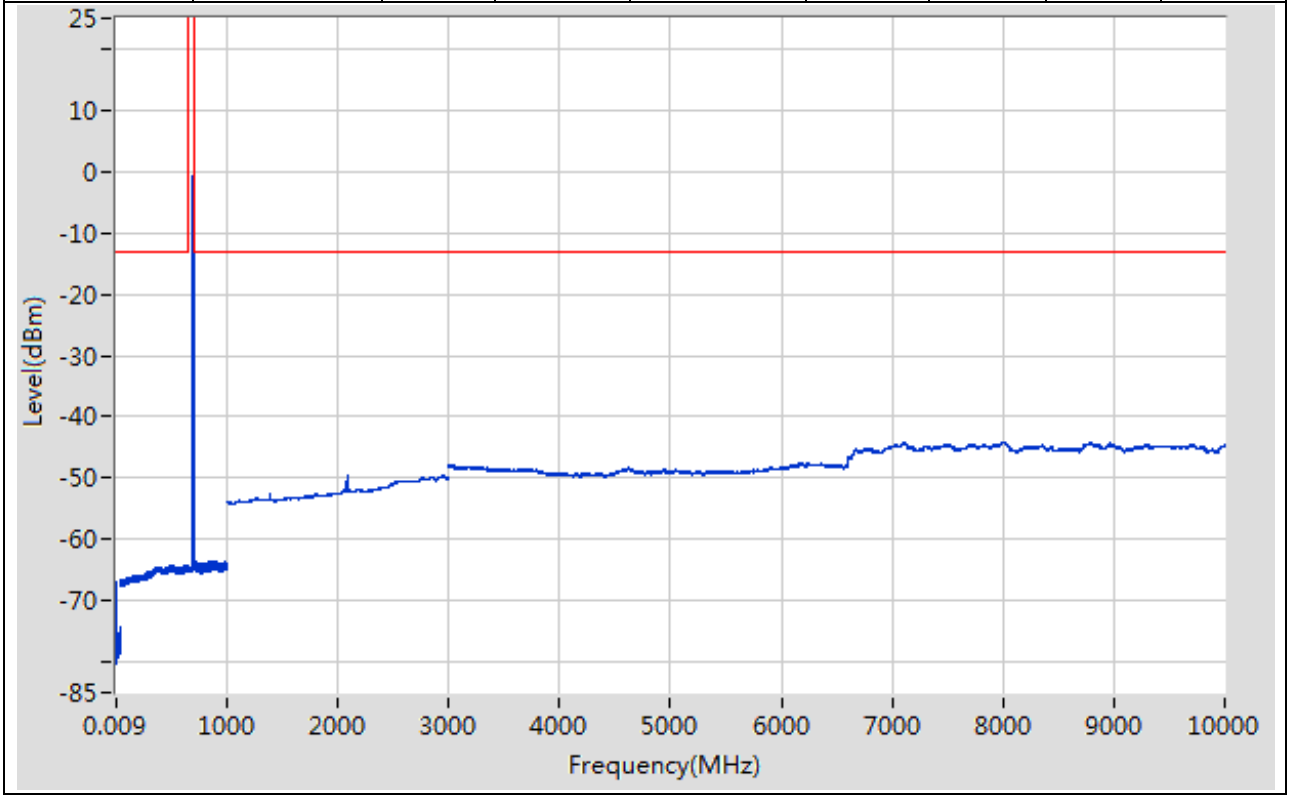
2.4. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:4, Channel:133297, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.012	-70.56	-13	Pass	401
0.15	30	0.01	RMS	0.15	-68.54	-13	Pass	2985
30	653	0.1	RMS	614.994	-64.26	-13	Pass	6230
653	709	0.1	RMS	678.345	18.91	60	Pass	560
709	1000	0.1	RMS	870.856	-63.5	-13	Pass	2910
1000	3000	1	RMS	2944.972	-49.67	-13	Pass	2000
3000	10000	1	RMS	8000.714	-44.02	-13	Pass	7000



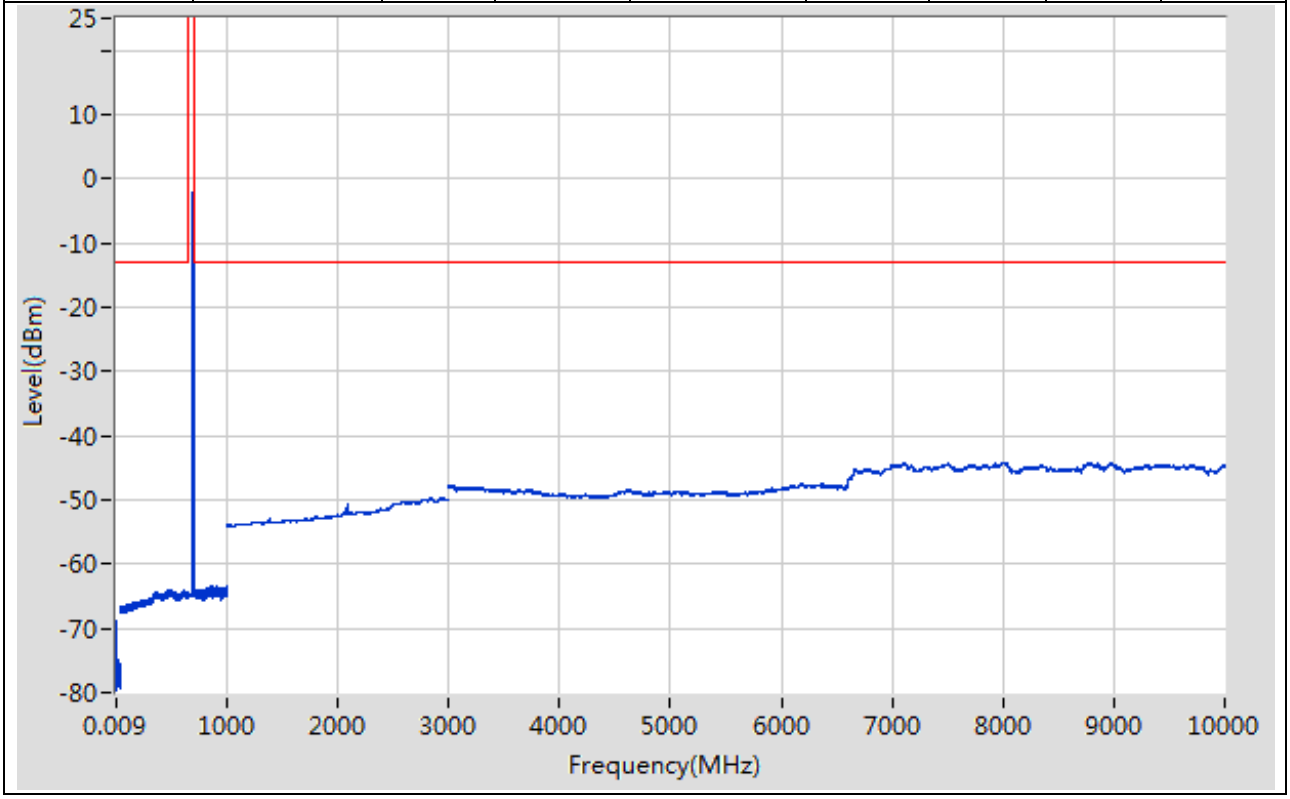
2.5. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:5, Channel:133447, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.092	-70.81	-13	Pass	401
0.15	30	0.01	RMS	0.15	-66.94	-13	Pass	2985
30	653	0.1	RMS	478.172	-64.15	-13	Pass	6230
653	709	0.1	RMS	693.372	19.17	60	Pass	560
709	1000	0.1	RMS	894.064	-63.46	-13	Pass	2910
1000	3000	1	RMS	2950.975	-49.68	-13	Pass	2000
3000	10000	1	RMS	7109.587	-44.05	-13	Pass	7000



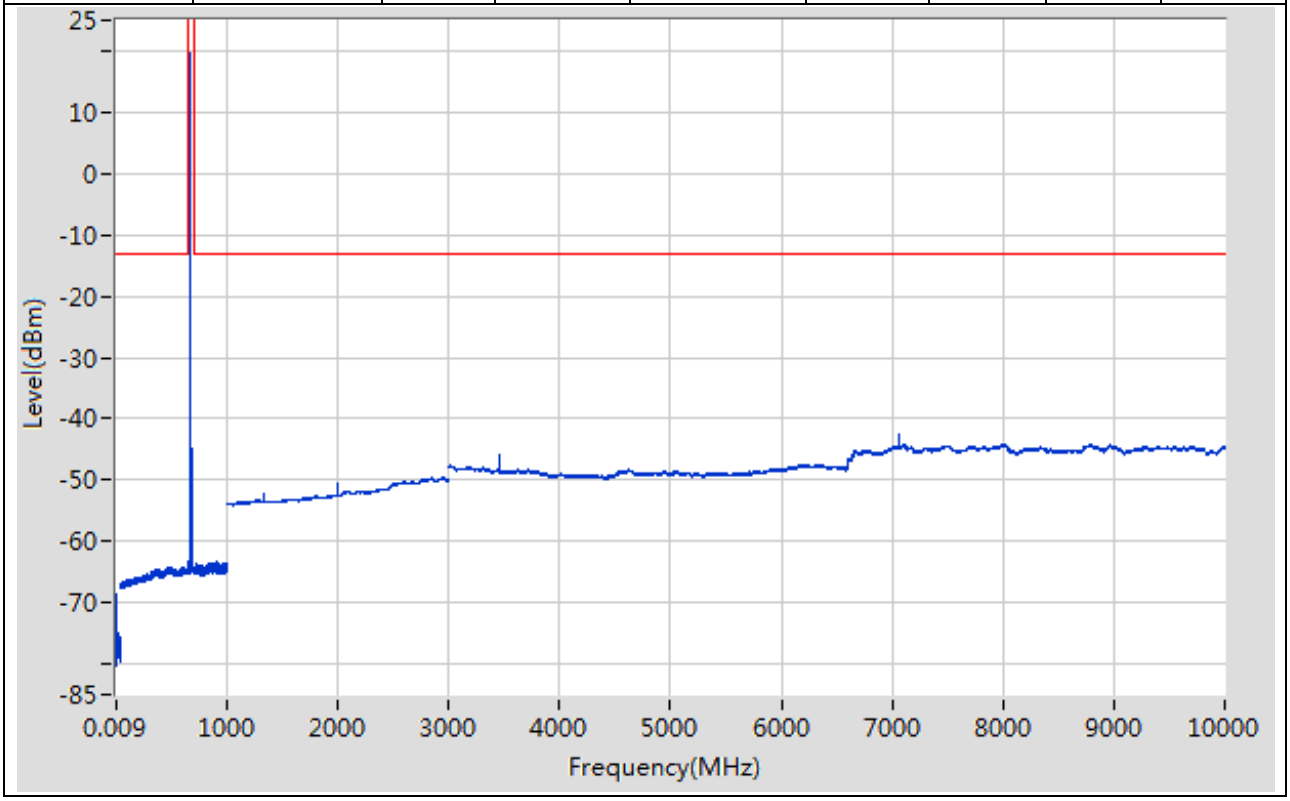
2.6. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:6, Channel:133447, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.013	-71.43	-13	Pass	401
0.15	30	0.01	RMS	0.15	-68.69	-13	Pass	2985
30	653	0.1	RMS	618.795	-64.09	-13	Pass	6230
653	709	0.1	RMS	693.372	18.44	60	Pass	560
709	1000	0.1	RMS	857.851	-63.36	-13	Pass	2910
1000	3000	1	RMS	2947.974	-49.6	-13	Pass	2000
3000	10000	1	RMS	8007.715	-44.1	-13	Pass	7000



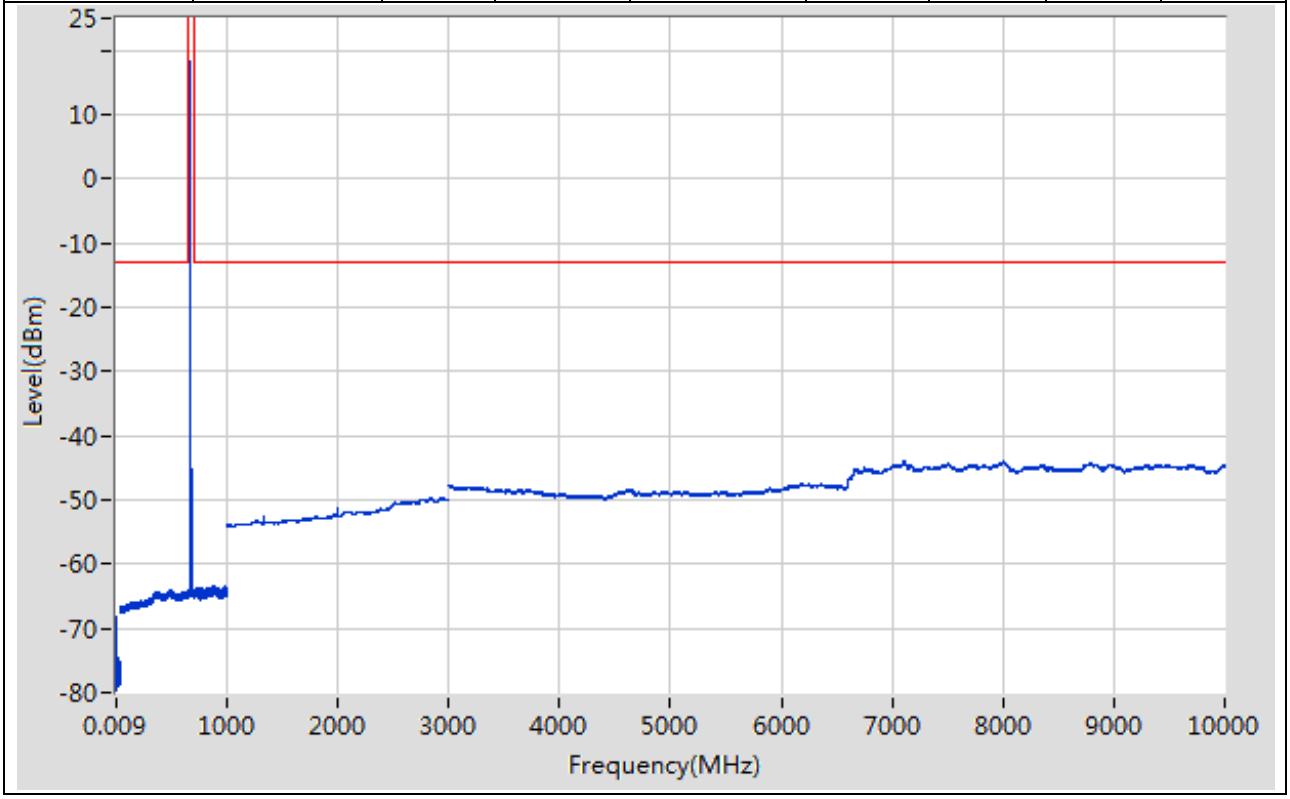
2.7. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:7, Channel:133172, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-71.25	-13	Pass	401
0.15	30	0.01	RMS	0.15	-68.53	-13	Pass	2985
30	653	0.1	RMS	652.9	-63.19	-13	Pass	6230
653	709	0.1	RMS	663.619	19.49	60	Pass	560
709	1000	0.1	RMS	901.966	-63.27	-13	Pass	2910
1000	3000	1	RMS	2947.974	-49.68	-13	Pass	2000
3000	10000	1	RMS	7058.58	-42.58	-13	Pass	7000



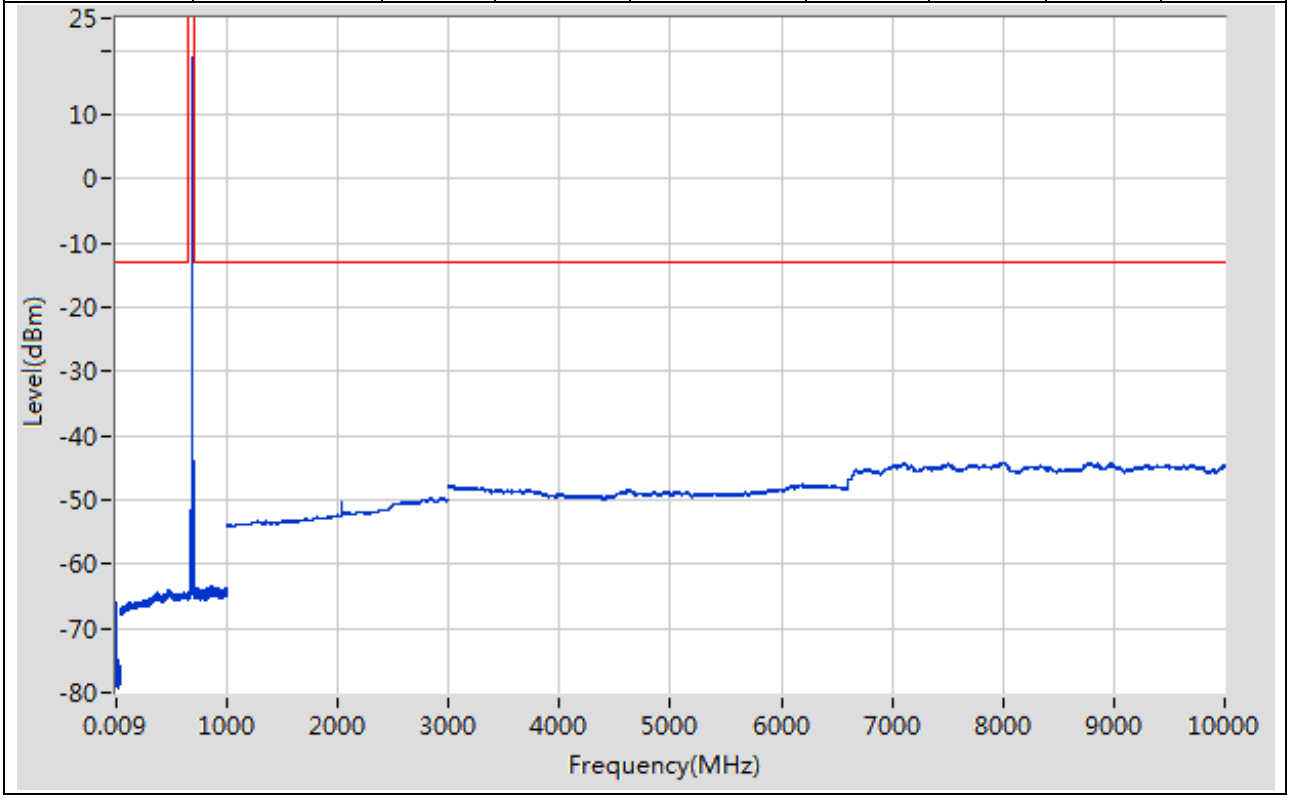
2.8. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:8, Channel:133172, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-69.87	-13	Pass	401
0.15	30	0.01	RMS	0.15	-68.22	-13	Pass	2985
30	653	0.1	RMS	652.9	-63.9	-13	Pass	6230
653	709	0.1	RMS	663.619	18.41	60	Pass	560
709	1000	0.1	RMS	879.659	-63.3	-13	Pass	2910
1000	3000	1	RMS	2950.975	-49.64	-13	Pass	2000
3000	10000	1	RMS	7997.714	-44.07	-13	Pass	7000



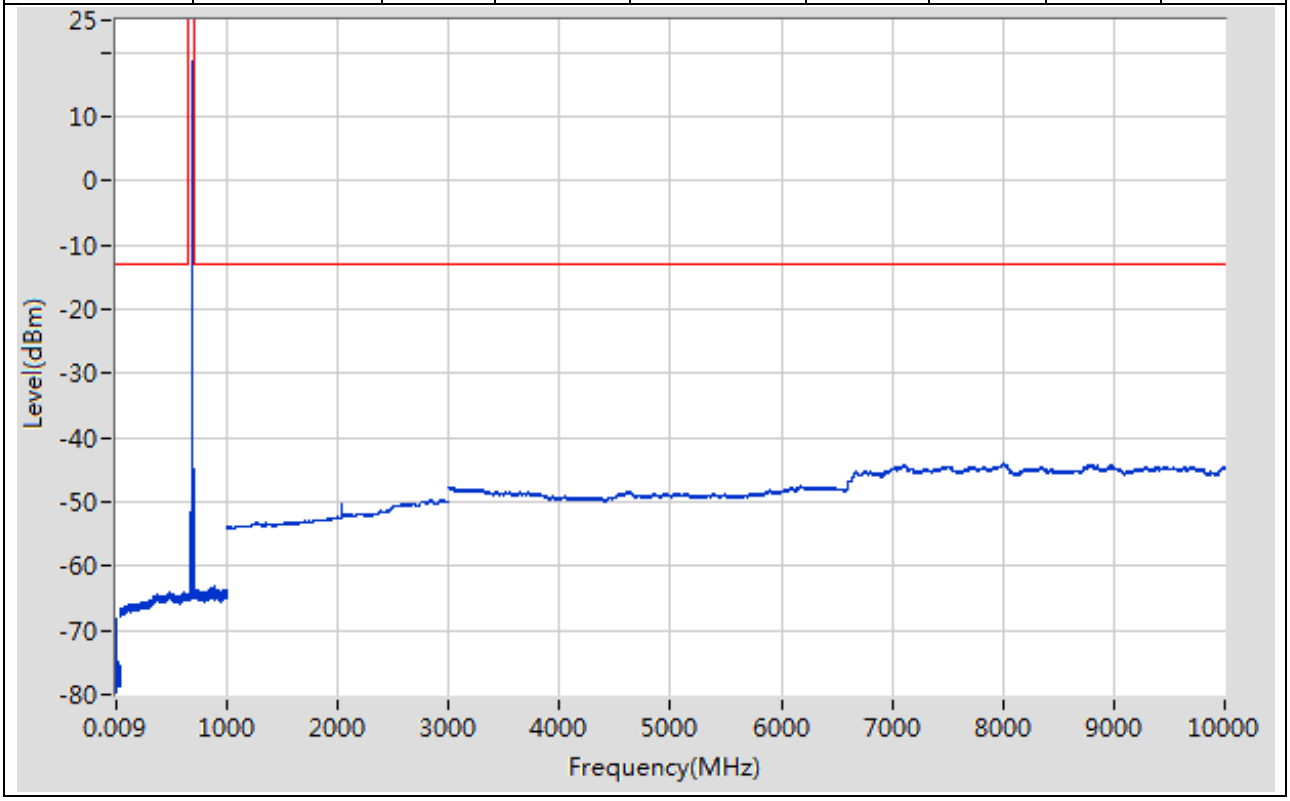
2.9. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:9, Channel:133297, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.093	-70.73	-13	Pass	401
0.15	30	0.01	RMS	0.15	-65.94	-13	Pass	2985
30	653	0.1	RMS	468.57	-64.16	-13	Pass	6230
653	709	0.1	RMS	676.141	19.02	60	Pass	560
709	1000	0.1	RMS	874.757	-63.38	-13	Pass	2910
1000	3000	1	RMS	2949.975	-49.7	-13	Pass	2000
3000	10000	1	RMS	7110.587	-44.1	-13	Pass	7000



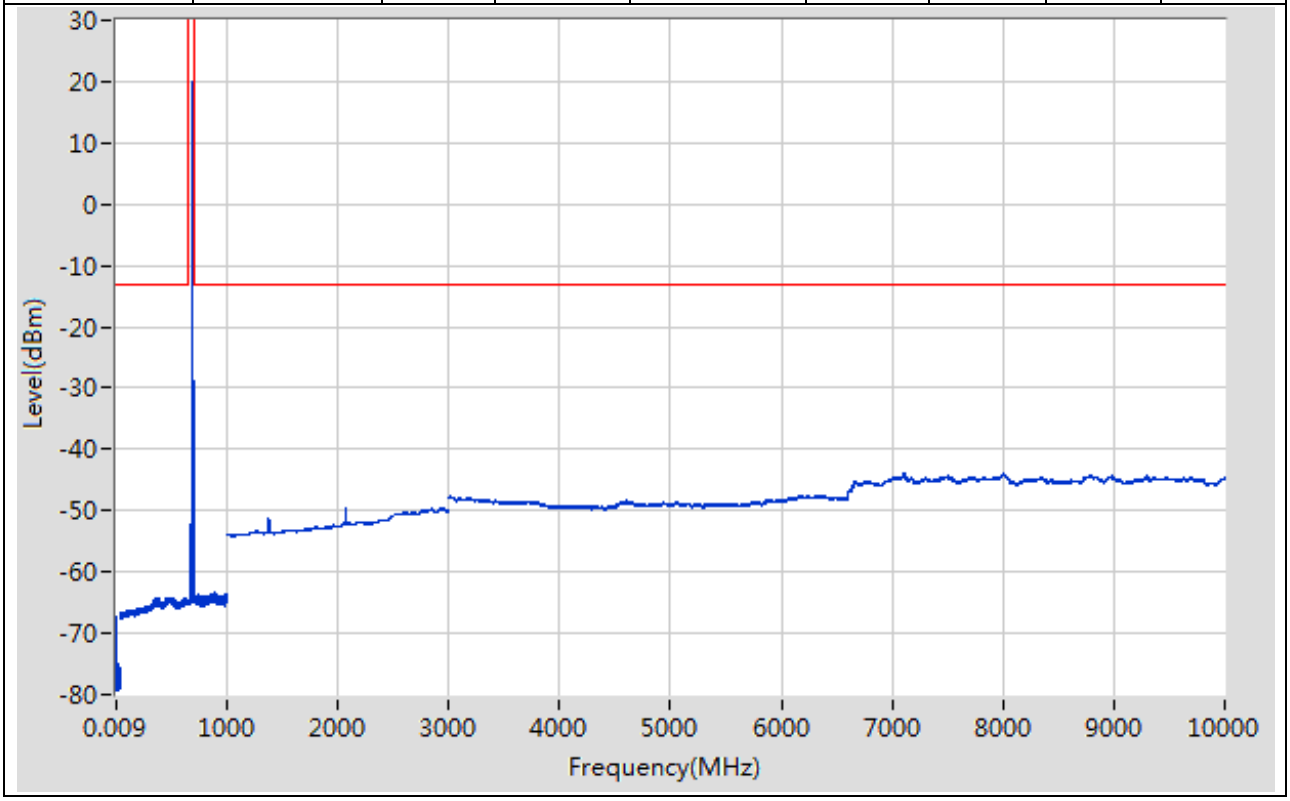
2.10. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:10, Channel:133297, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.088	-70.5	-13	Pass	401
0.15	30	0.01	RMS	0.16	-68.18	-13	Pass	2985
30	653	0.1	RMS	474.771	-64.16	-13	Pass	6230
653	709	0.1	RMS	676.141	18.7	60	Pass	560
709	1000	0.1	RMS	889.262	-63.23	-13	Pass	2910
1000	3000	1	RMS	2949.975	-49.63	-13	Pass	2000
3000	10000	1	RMS	8004.715	-44.09	-13	Pass	7000



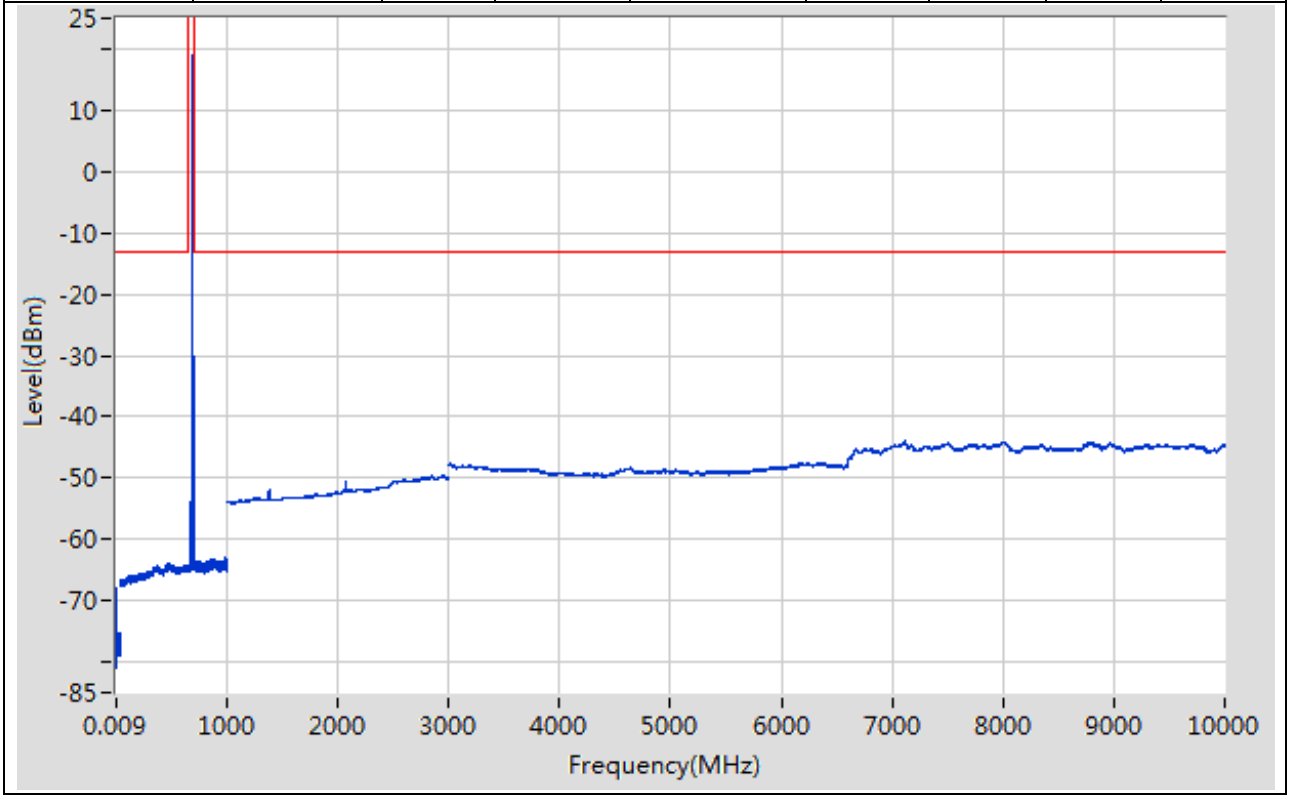
2.11. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:11, Channel:133422, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.092	-71.45	-13	Pass	401
0.15	30	0.01	RMS	0.15	-67.3	-13	Pass	2985
30	653	0.1	RMS	471.271	-64.19	-13	Pass	6230
653	709	0.1	RMS	688.564	20.05	60	Pass	560
709	1000	0.1	RMS	884.46	-63.41	-13	Pass	2910
1000	3000	1	RMS	2946.973	-49.63	-13	Pass	2000
3000	10000	1	RMS	8002.715	-43.99	-13	Pass	7000



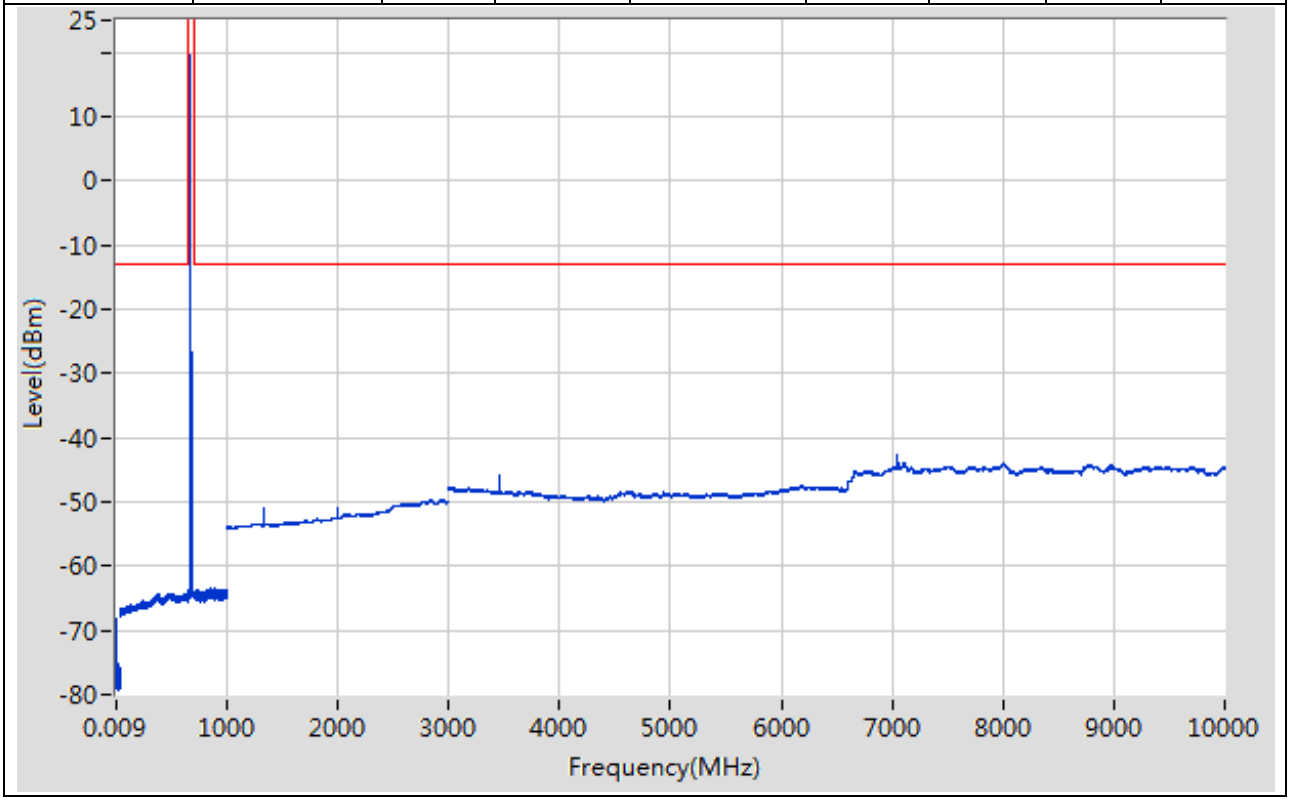
2.12. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:12, Channel:133422, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-70.49	-13	Pass	401
0.15	30	0.01	RMS	0.15	-67.83	-13	Pass	2985
30	653	0.1	RMS	468.17	-63.95	-13	Pass	6230
653	709	0.1	RMS	688.564	18.88	60	Pass	560
709	1000	0.1	RMS	986.795	-63	-13	Pass	2910
1000	3000	1	RMS	2949.975	-49.63	-13	Pass	2000
3000	10000	1	RMS	7107.587	-44.03	-13	Pass	7000



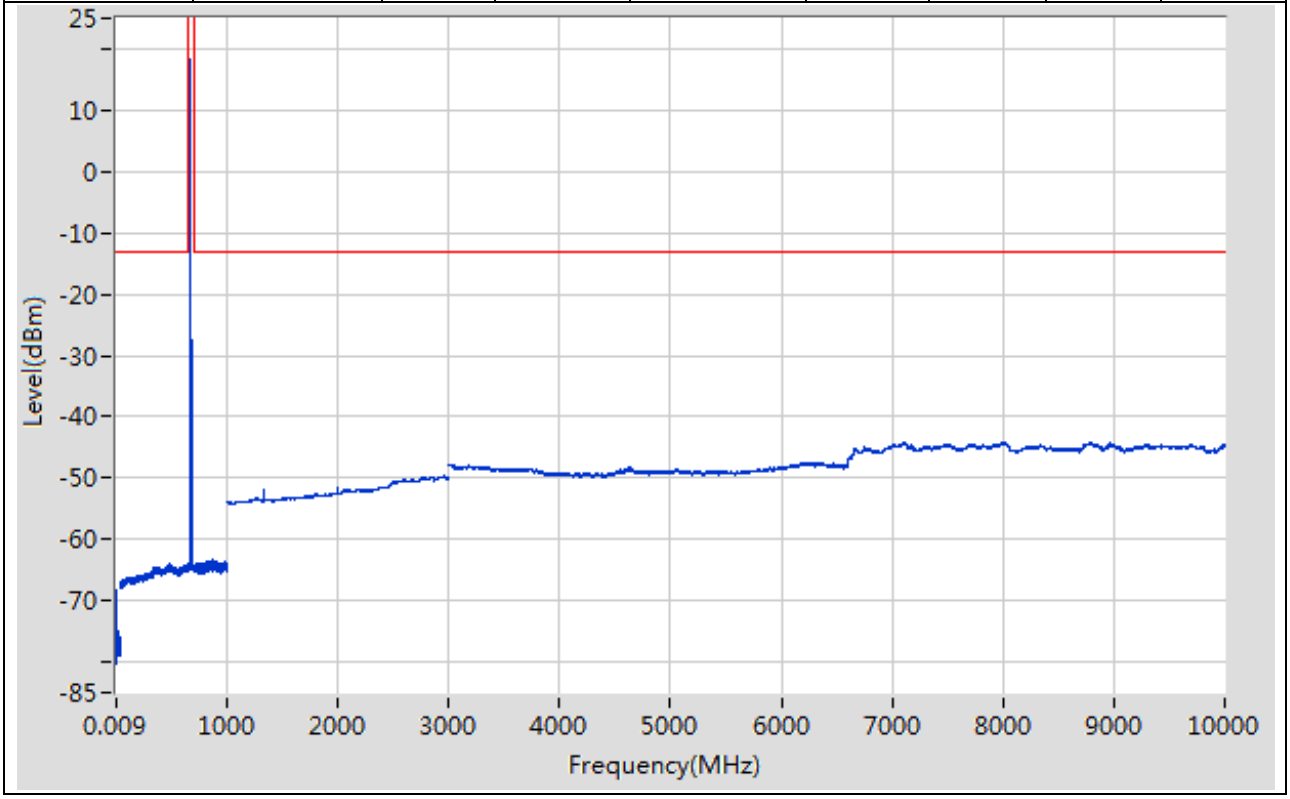
2.13. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:13, Channel:133197, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.092	-71.32	-13	Pass	401
0.15	30	0.01	RMS	0.16	-68.19	-13	Pass	2985
30	653	0.1	RMS	473.671	-64.22	-13	Pass	6230
653	709	0.1	RMS	663.819	19.53	60	Pass	560
709	1000	0.1	RMS	891.363	-63.35	-13	Pass	2910
1000	3000	1	RMS	2947.974	-49.66	-13	Pass	2000
3000	10000	1	RMS	7051.579	-42.74	-13	Pass	7000



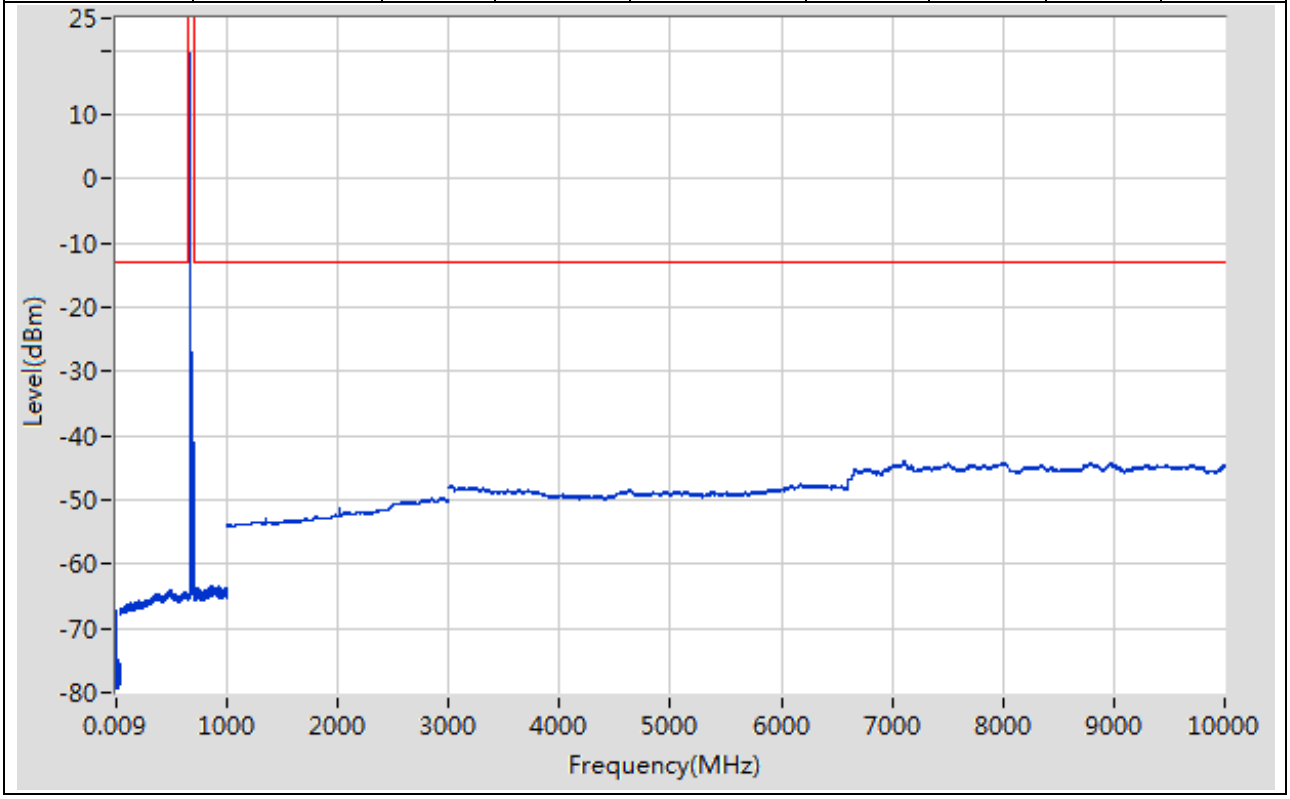
2.14. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:14, Channel:133197, Bandwidth:15, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.016	-70.97	-13	Pass	401
0.15	30	0.01	RMS	0.15	-68.31	-13	Pass	2985
30	653	0.1	RMS	473.671	-64.08	-13	Pass	6230
653	709	0.1	RMS	663.819	18.37	60	Pass	560
709	1000	0.1	RMS	875.057	-63.4	-13	Pass	2910
1000	3000	1	RMS	2949.975	-49.68	-13	Pass	2000
3000	10000	1	RMS	7110.587	-44.15	-13	Pass	7000



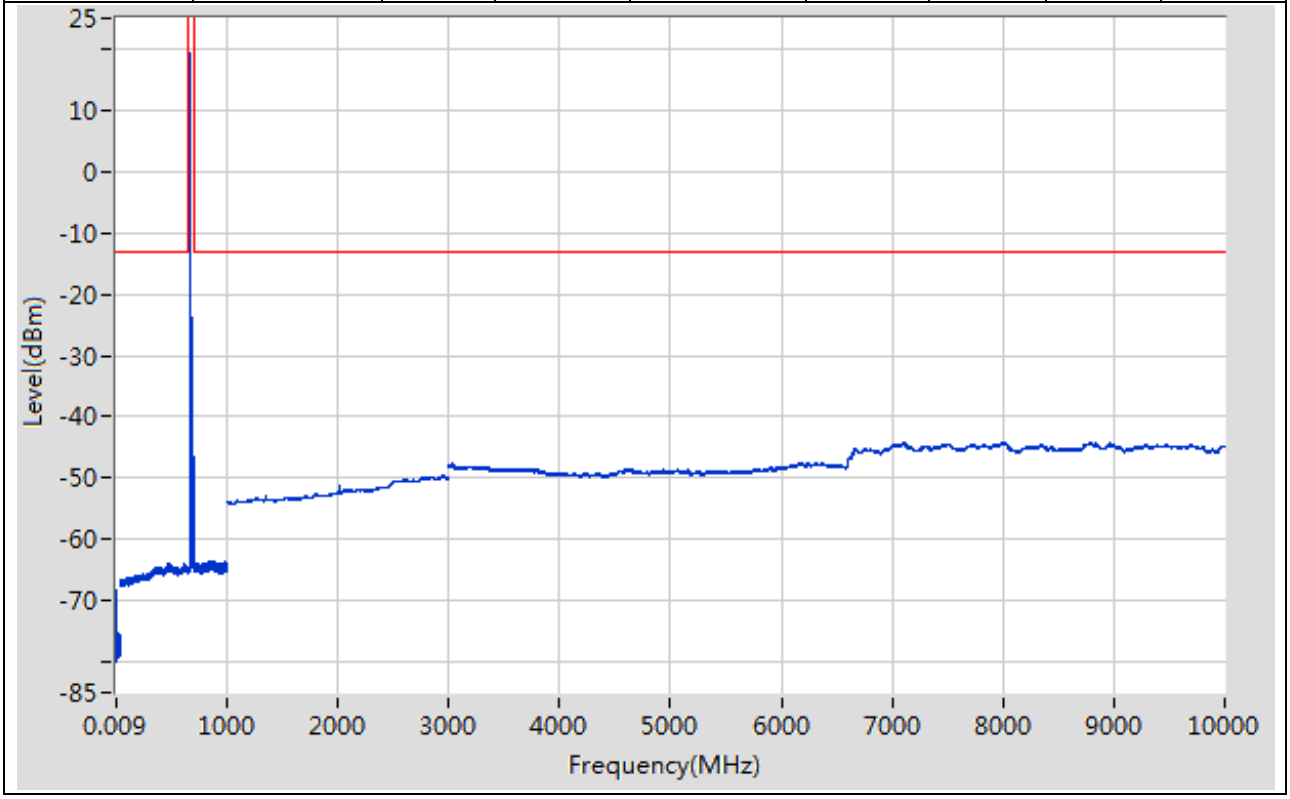
2.15. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:15, Channel:133297, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.092	-70.13	-13	Pass	401
0.15	30	0.01	RMS	0.15	-67.29	-13	Pass	2985
30	653	0.1	RMS	480.172	-63.96	-13	Pass	6230
653	709	0.1	RMS	673.837	19.47	60	Pass	560
709	1000	0.1	RMS	875.157	-63.45	-13	Pass	2910
1000	3000	1	RMS	2946.973	-49.69	-13	Pass	2000
3000	10000	1	RMS	7111.587	-44.05	-13	Pass	7000



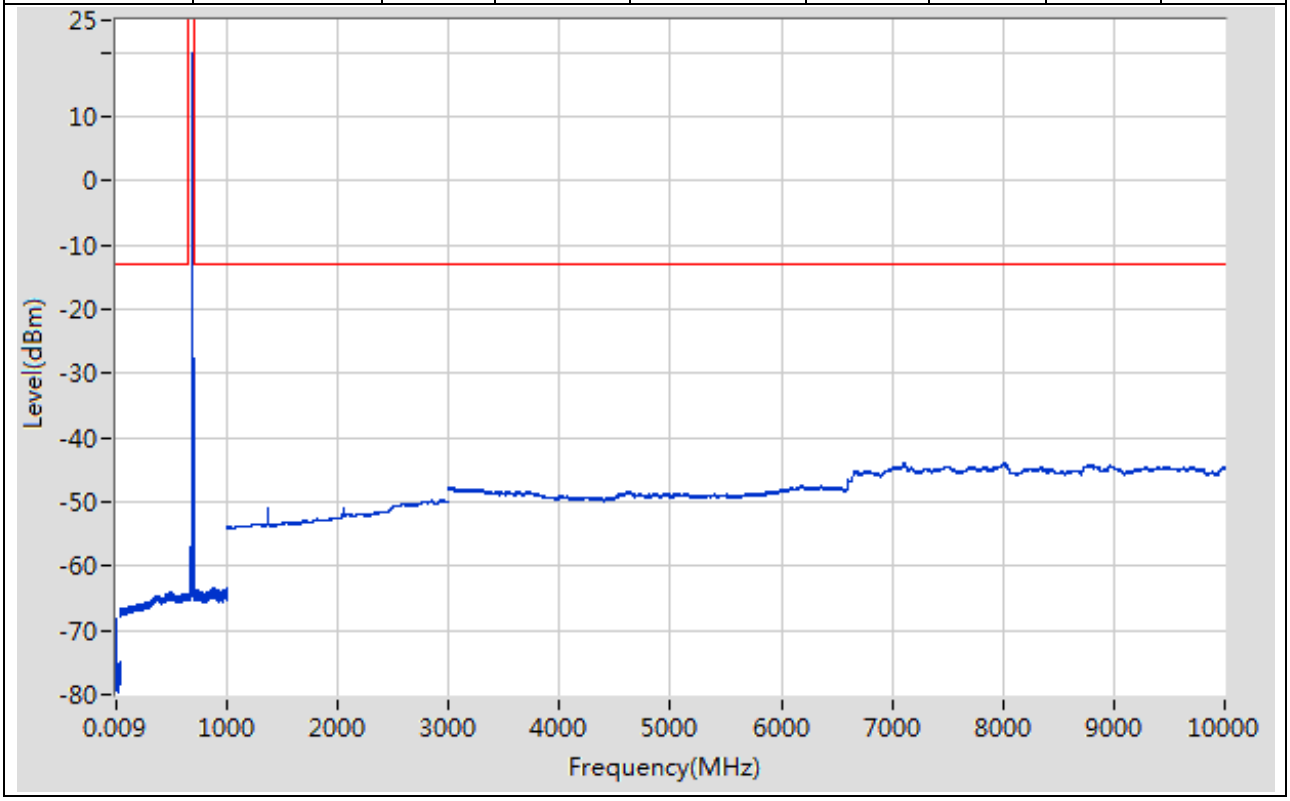
2.16. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:16, Channel:133297, Bandwidth:15, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.015	-70.19	-13	Pass	401
0.15	30	0.01	RMS	0.15	-68.14	-13	Pass	2985
30	653	0.1	RMS	479.172	-64.02	-13	Pass	6230
653	709	0.1	RMS	673.837	19.39	60	Pass	560
709	1000	0.1	RMS	823.839	-63.6	-13	Pass	2910
1000	3000	1	RMS	2947.974	-49.66	-13	Pass	2000
3000	10000	1	RMS	7999.714	-44.06	-13	Pass	7000



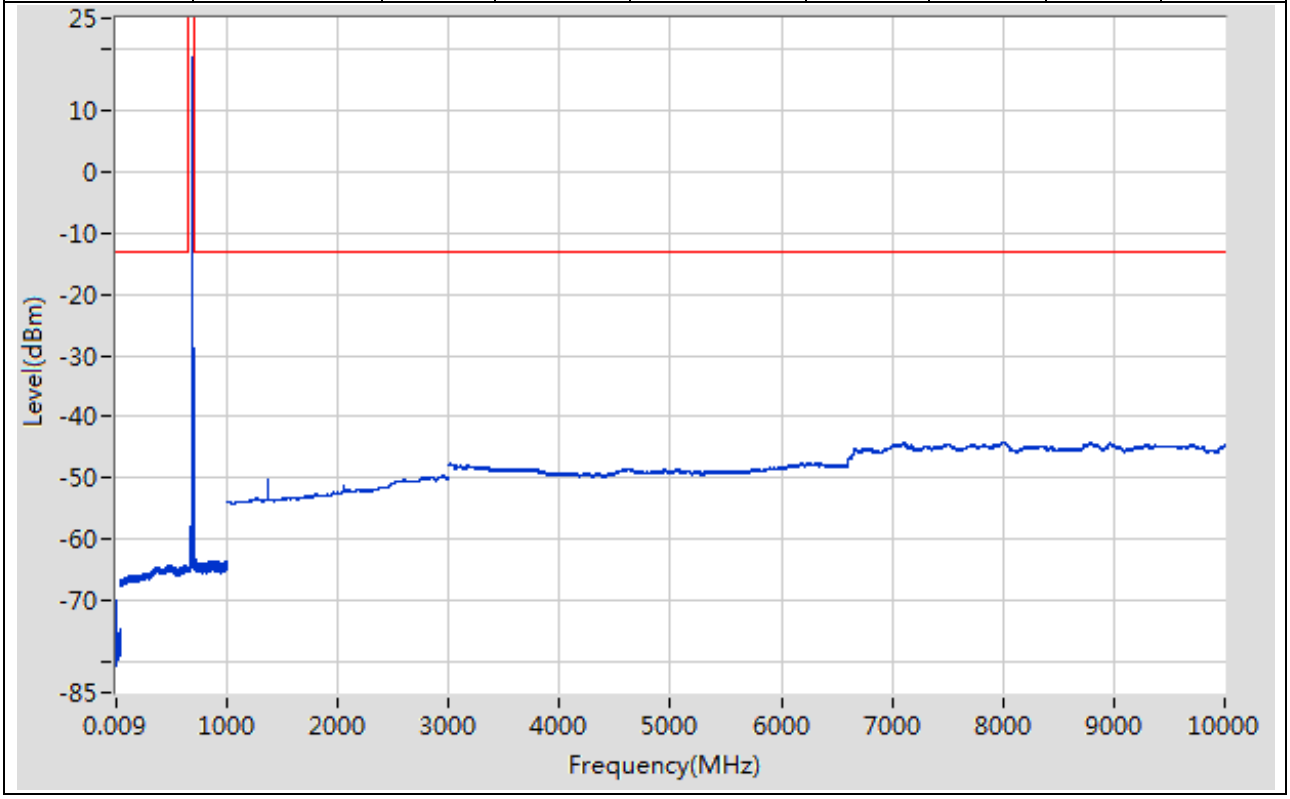
2.17. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:17, Channel:133397, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.09	-71.35	-13	Pass	401
0.15	30	0.01	RMS	0.15	-68.13	-13	Pass	2985
30	653	0.1	RMS	471.671	-64.05	-13	Pass	6230
653	709	0.1	RMS	683.855	19.77	60	Pass	560
709	1000	0.1	RMS	710.501	-52.38	-13	Pass	2910
1000	3000	1	RMS	2949.975	-49.61	-13	Pass	2000
3000	10000	1	RMS	7108.587	-44.06	-13	Pass	7000



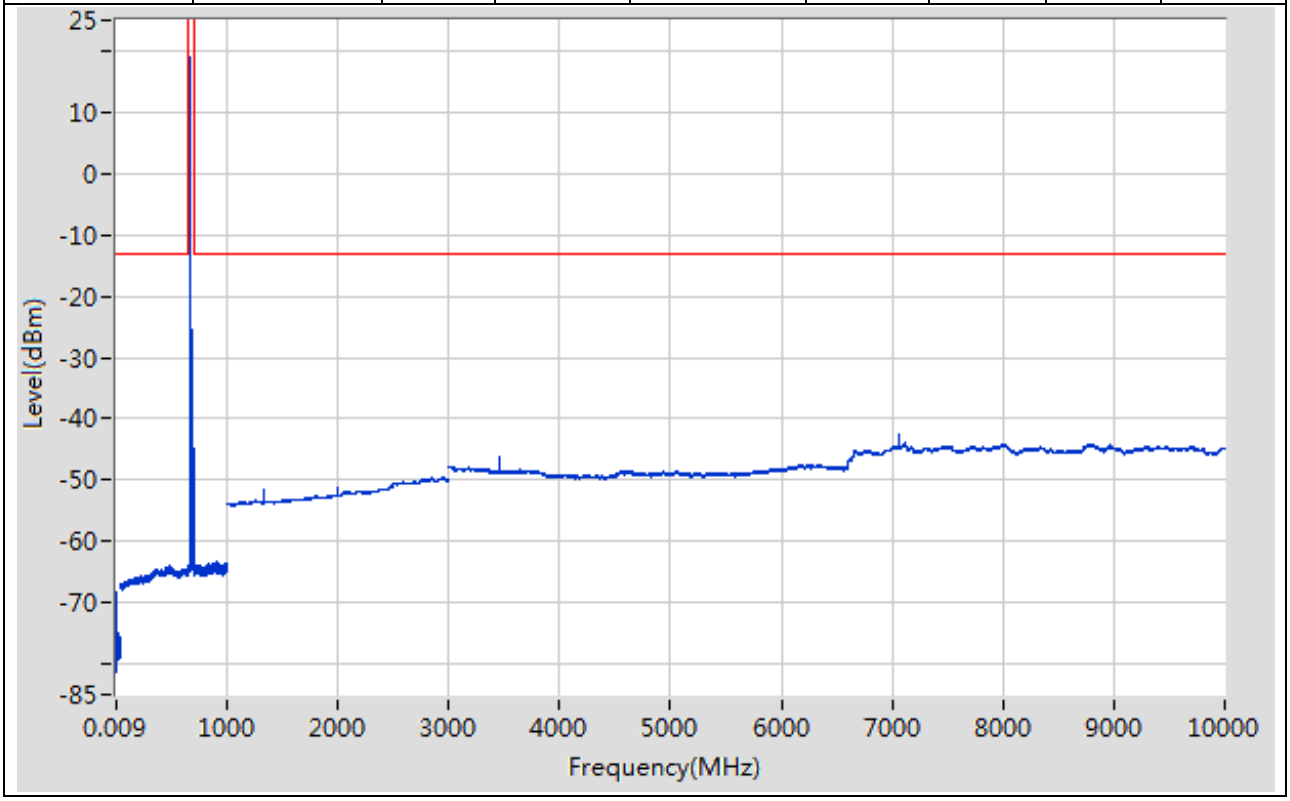
2.18. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:18, Channel:133397, Bandwidth:15, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.015	-70.97	-13	Pass	401
0.15	30	0.01	RMS	0.15	-70.09	-13	Pass	2985
30	653	0.1	RMS	470.471	-64.17	-13	Pass	6230
653	709	0.1	RMS	683.855	18.55	60	Pass	560
709	1000	0.1	RMS	710.501	-53.29	-13	Pass	2910
1000	3000	1	RMS	2950.975	-49.69	-13	Pass	2000
3000	10000	1	RMS	7106.587	-44.1	-13	Pass	7000



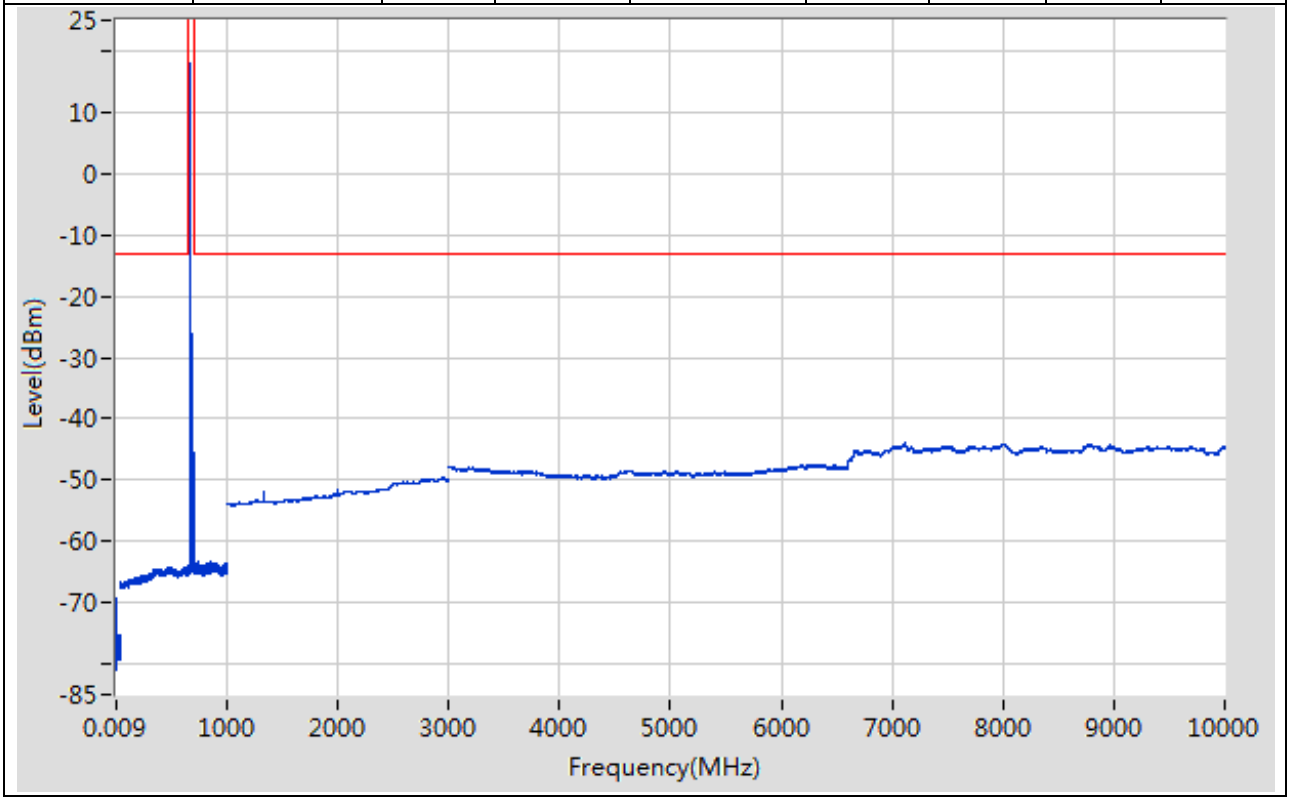
2.19. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:19, Channel:133222, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-71.87	-13	Pass	401
0.15	30	0.01	RMS	0.15	-68.22	-13	Pass	2985
30	653	0.1	RMS	485.673	-64.07	-13	Pass	6230
653	709	0.1	RMS	664.12	18.9	60	Pass	560
709	1000	0.1	RMS	898.065	-63.4	-13	Pass	2910
1000	3000	1	RMS	2848.924	-49.66	-13	Pass	2000
3000	10000	1	RMS	7058.58	-42.68	-13	Pass	7000



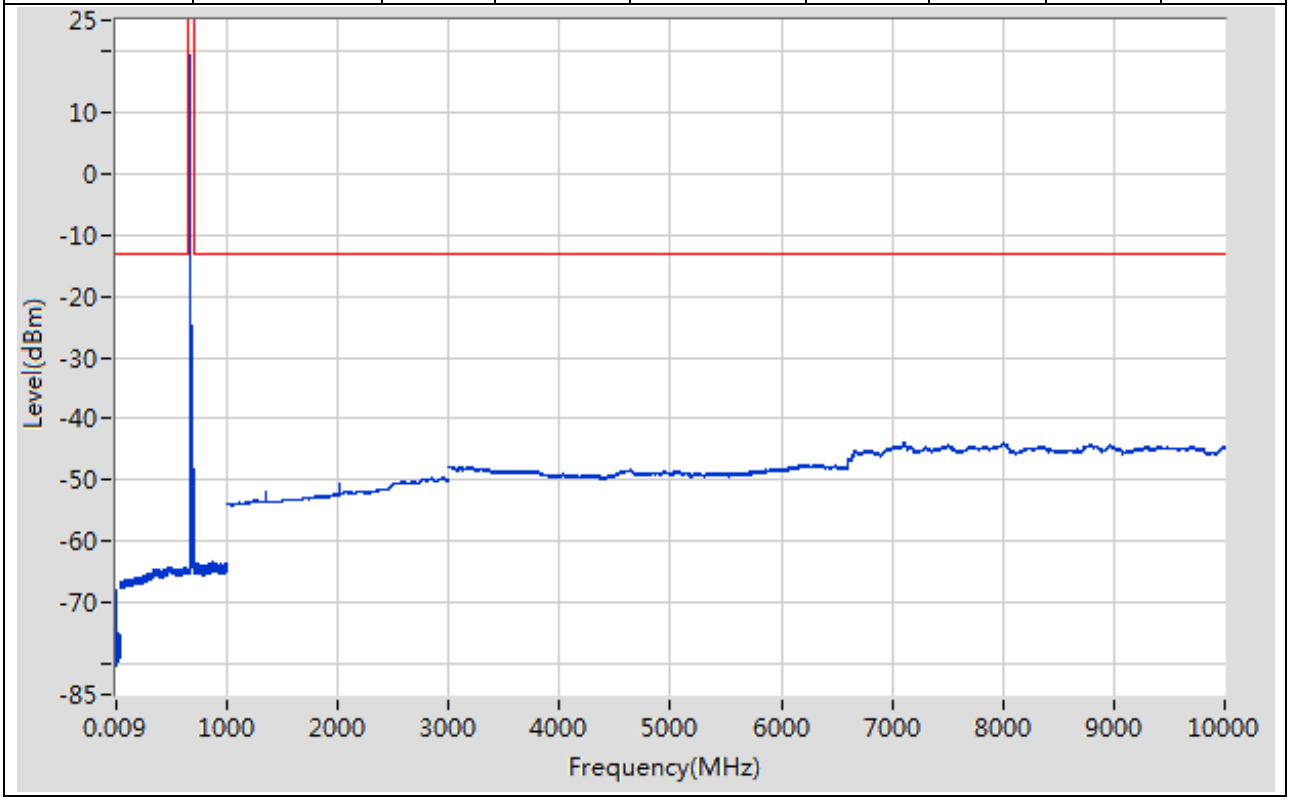
2.20. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:20, Channel:133222, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.014	-70.52	-13	Pass	401
0.15	30	0.01	RMS	0.15	-69.12	-13	Pass	2985
30	653	0.1	RMS	477.472	-64.27	-13	Pass	6230
653	709	0.1	RMS	664.12	18.01	60	Pass	560
709	1000	0.1	RMS	853.35	-63.31	-13	Pass	2910
1000	3000	1	RMS	2948.974	-49.68	-13	Pass	2000
3000	10000	1	RMS	7109.587	-44.04	-13	Pass	7000



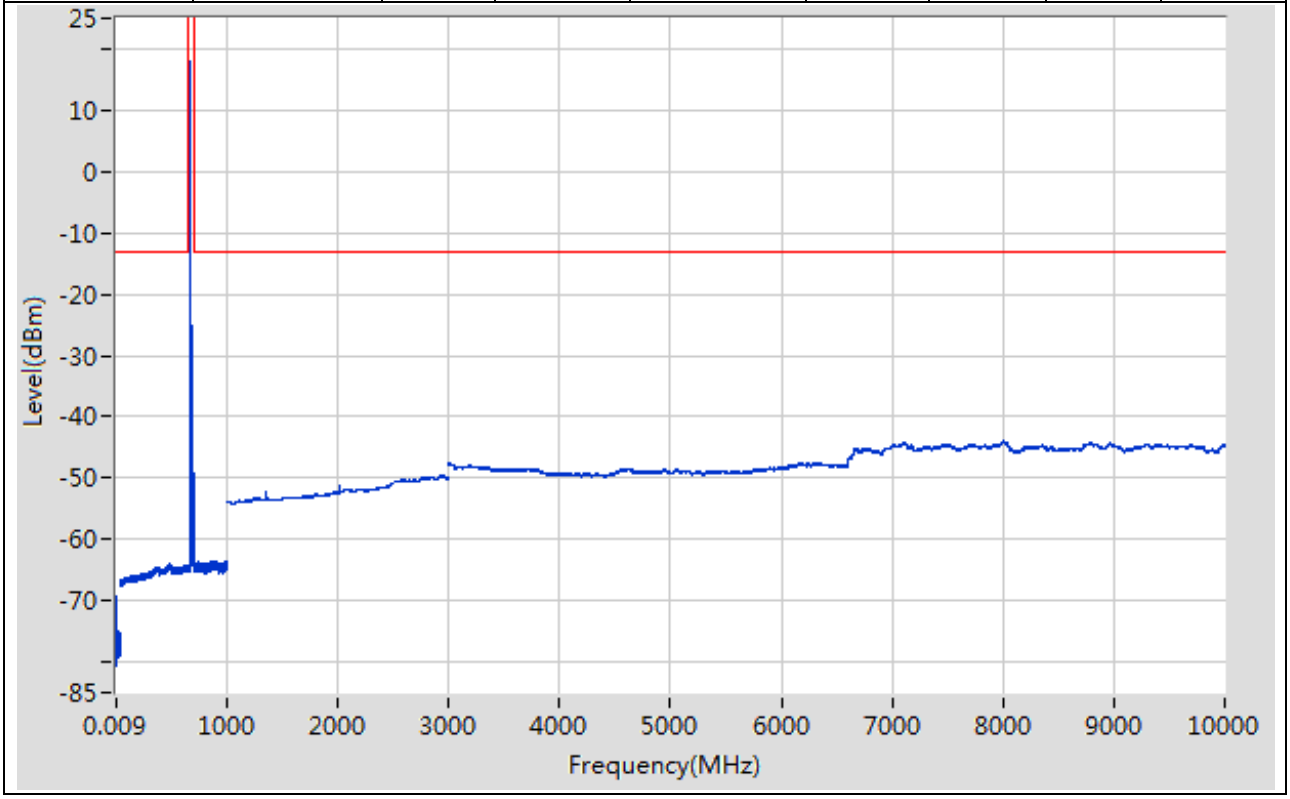
2.21. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:21, Channel:133297, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.092	-70.66	-13	Pass	401
0.15	30	0.01	RMS	0.15	-67.81	-13	Pass	2985
30	653	0.1	RMS	472.271	-64.13	-13	Pass	6230
653	709	0.1	RMS	671.633	19.28	60	Pass	560
709	1000	0.1	RMS	863.553	-63.37	-13	Pass	2910
1000	3000	1	RMS	2946.973	-49.58	-13	Pass	2000
3000	10000	1	RMS	7111.587	-43.96	-13	Pass	7000



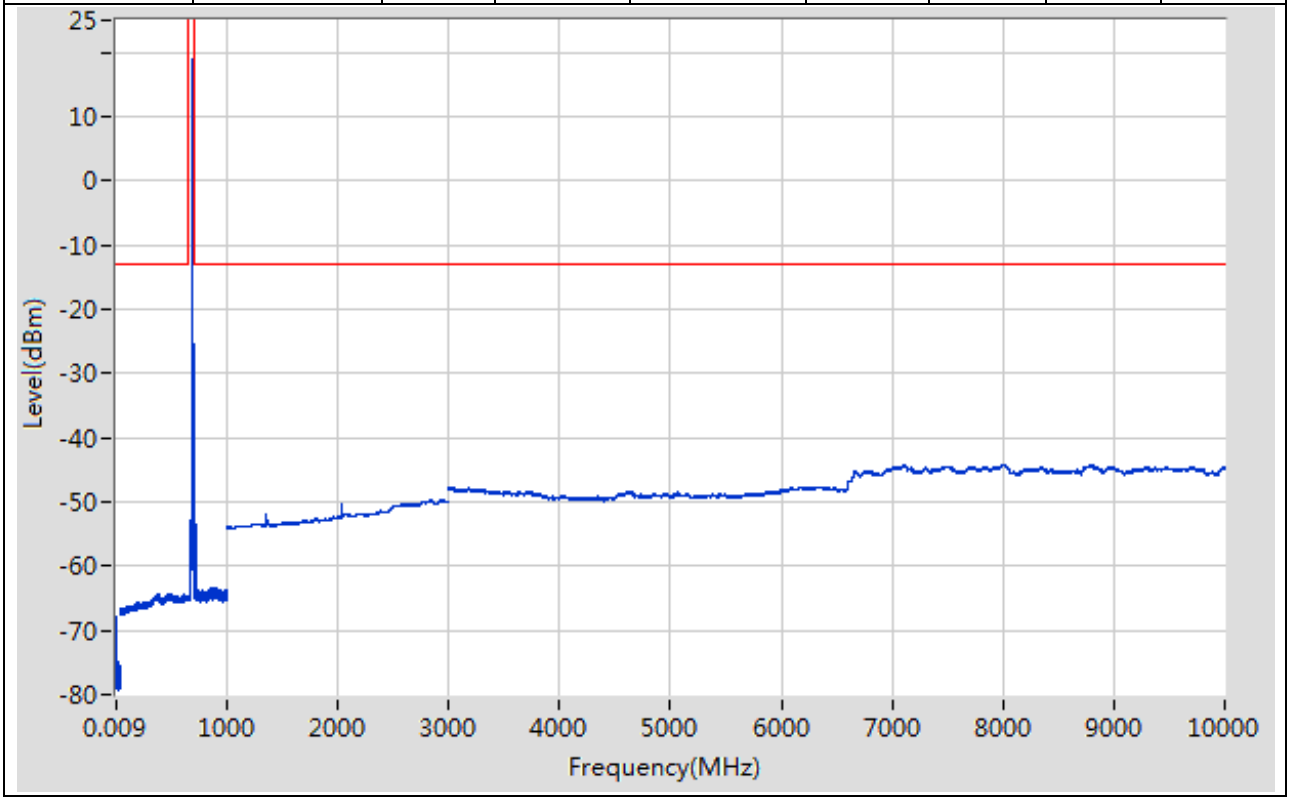
2.22. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:22, Channel:133297, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-70.31	-13	Pass	401
0.15	30	0.01	RMS	0.15	-69.34	-13	Pass	2985
30	653	0.1	RMS	472.971	-63.98	-13	Pass	6230
653	709	0.1	RMS	671.633	17.96	60	Pass	560
709	1000	0.1	RMS	981.494	-63.53	-13	Pass	2910
1000	3000	1	RMS	2947.974	-49.63	-13	Pass	2000
3000	10000	1	RMS	7999.714	-44.04	-13	Pass	7000



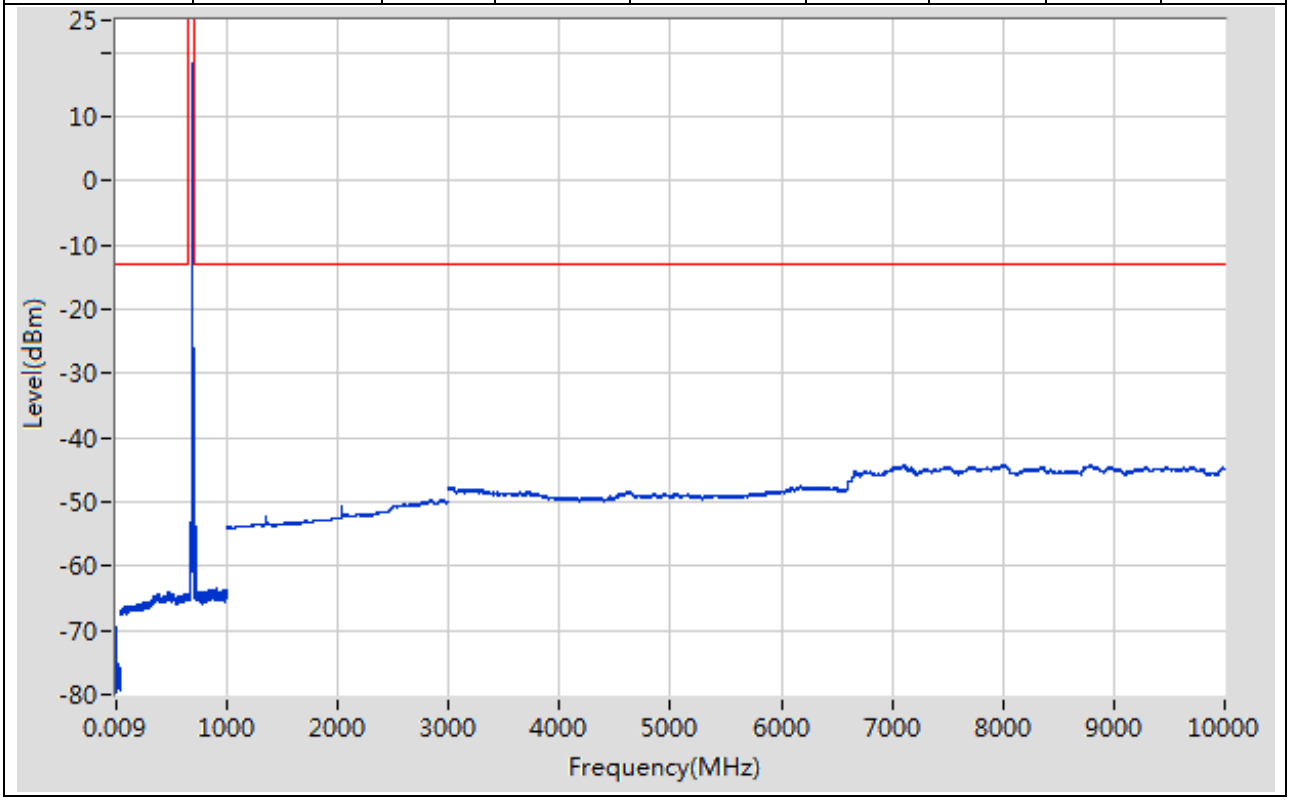
2.23. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:23, Channel:133372, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.045	-70.82	-13	Pass	401
0.15	30	0.01	RMS	0.15	-67.97	-13	Pass	2985
30	653	0.1	RMS	484.773	-64.24	-13	Pass	6230
653	709	0.1	RMS	679.047	19.03	60	Pass	560
709	1000	0.1	RMS	714.702	-53.44	-13	Pass	2910
1000	3000	1	RMS	2950.975	-49.61	-13	Pass	2000
3000	10000	1	RMS	7109.587	-44.14	-13	Pass	7000



2.24. LTE Spurious Emission at Antenna Terminals(NTNV)(Subtest:24, Channel:133372, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-70.71	-13	Pass	401
0.15	30	0.01	RMS	0.15	-69.43	-13	Pass	2985
30	653	0.1	RMS	468.07	-64.1	-13	Pass	6230
653	709	0.1	RMS	679.047	18.25	60	Pass	560
709	1000	0.1	RMS	714.702	-53.83	-13	Pass	2910
1000	3000	1	RMS	2945.973	-49.72	-13	Pass	2000
3000	10000	1	RMS	7109.587	-44.16	-13	Pass	7000



Appendix F: Frequency Stability

Test Result

LTE B71 QPSK 10MHz:

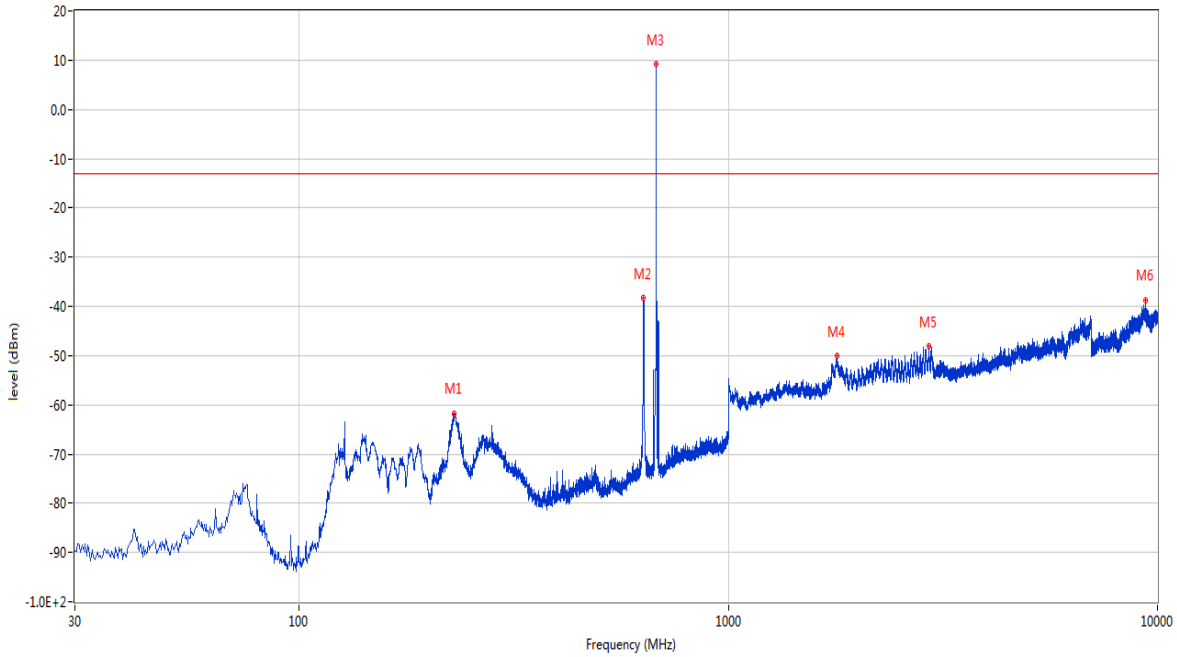
Power (VDC)	Temperature (° C)	Value(Hz)
		MCH
3.8	-30	-0.2
	-20	-0.62
	-10	-0.31
	0	-0.92
	10	-1.13
	20	-0.46
	25	-0.97
	30	-0.53
	40	-0.64
	50	-0.7
	55	-0.99
4.2	25	-0.51
3.6	25	0.07

LTE B71 16QAM 10MHz:

Power (VDC)	Temperature (° C)	Value(Hz)
		MCH
3.8	-30	-1.39
	-20	-0.74
	-10	-1.7
	0	-0.74
	10	-1.53
	20	-1.43
	25	-1.49
	30	-0.21
	40	-1.36
	50	-0.29
	55	-0.99
4.2	25	-2.03
3.6	25	-2.05

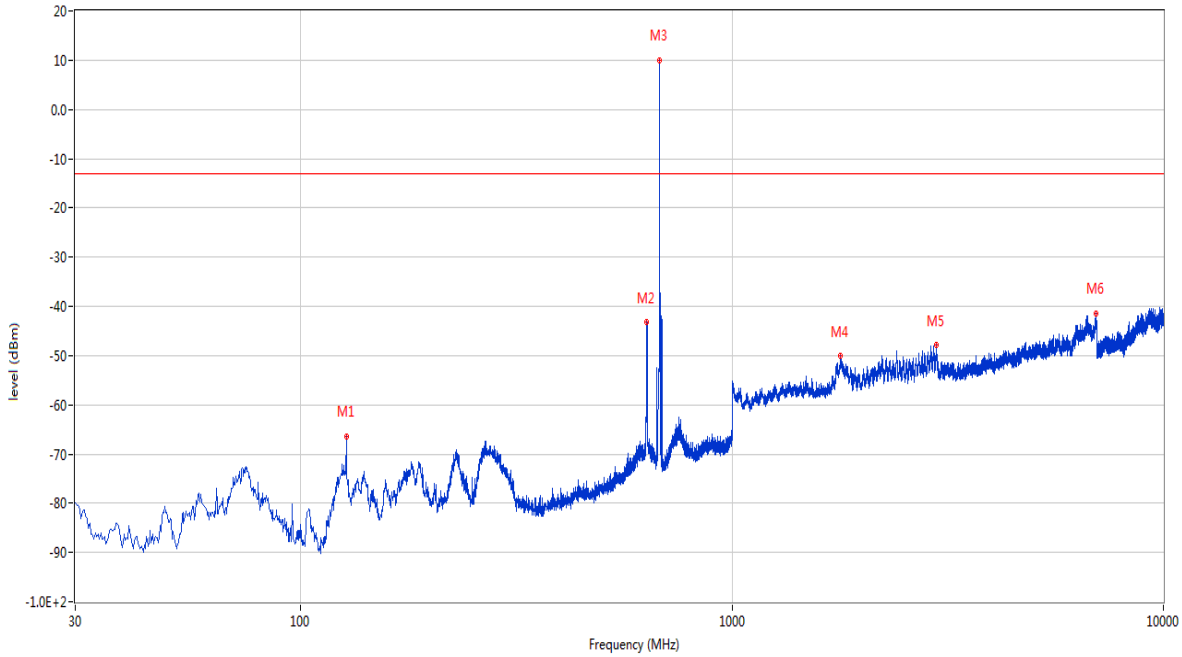
Appendix G: Radiated Power Measurement

Work Mode: LTE B71 CH133297 BW5 Remark: N.A



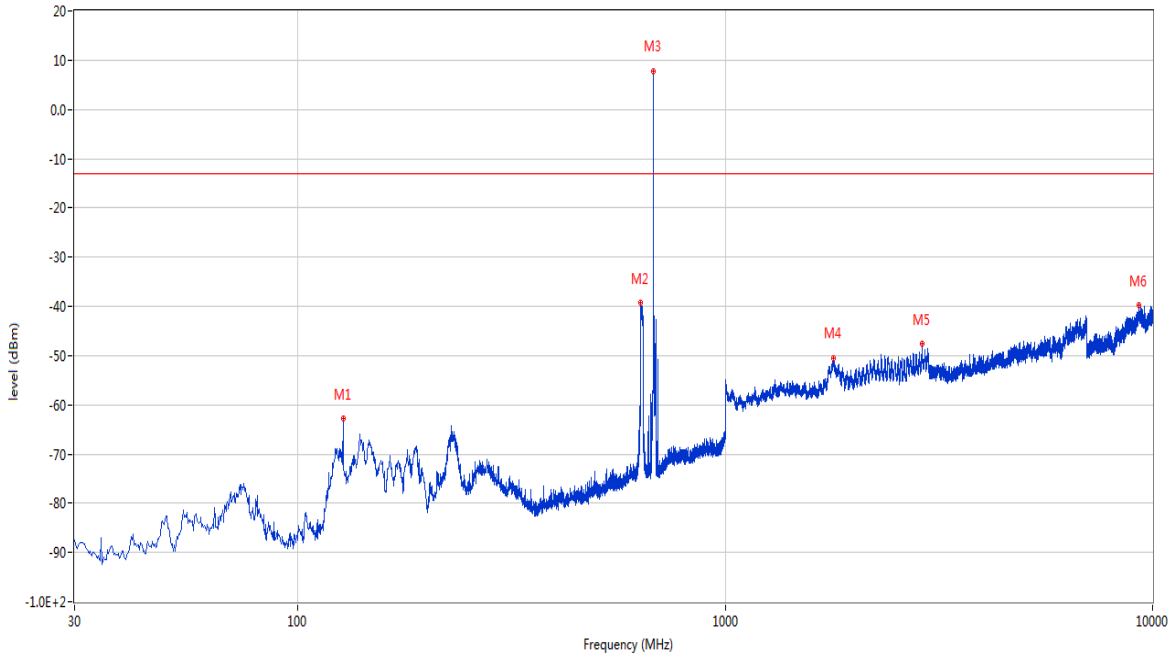
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
230.062	-61.71	-16.21	-13.0	-48.71	236.00	Horizontal	Horizontal	Pass
634.310	-38.31	-2.76	-13.0	-25.31	213.00	Horizontal	Horizontal	N/A
678.445	9.12	-3.16	-13.0	22.12	239.00	Horizontal	Horizontal	N/A
1789.500	-50.07	3.26	-13.0	-37.07	308.00	Horizontal	Horizontal	Pass
2932.500	-48.14	6.33	-13.0	-35.14	360.00	Horizontal	Horizontal	Pass
9376.750	-38.85	17.27	-13.0	-25.85	28.00	Horizontal	Horizontal	Pass

Work Mode: LTE B71 CH133297 BW5 Remark: N.A



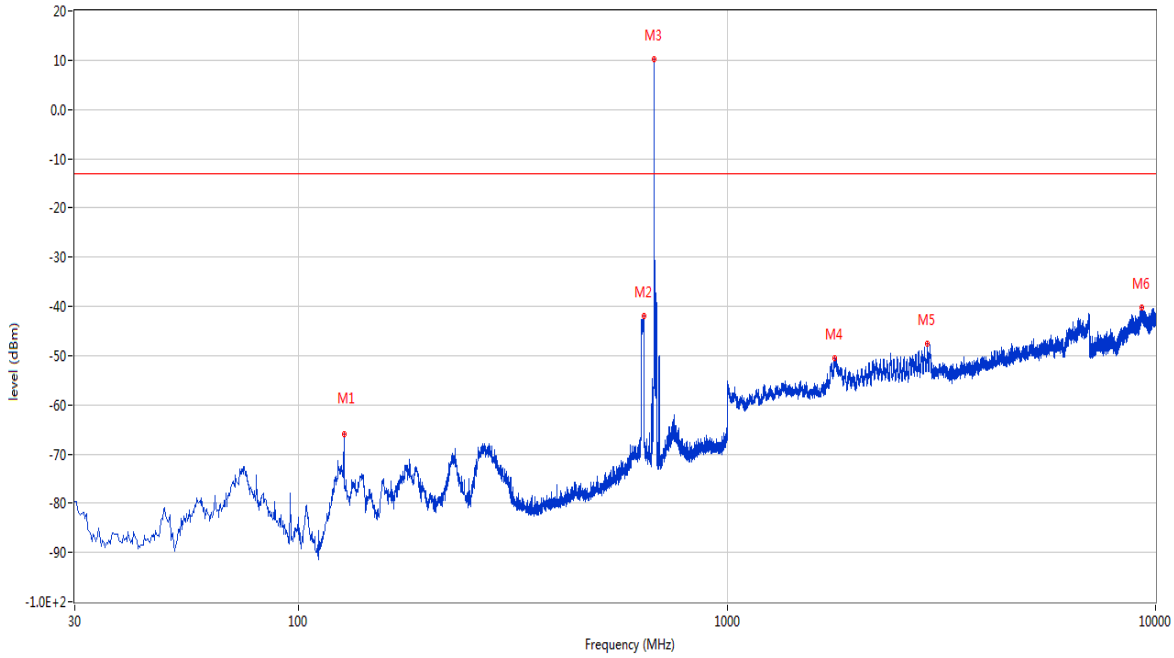
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
127.485	-66.37	-19.44	-13.0	-53.37	213.00	Vertical	Vertical	Pass
633.340	-43.27	-2.79	-13.0	-30.27	141.00	Vertical	Vertical	N/A
678.445	10.07	-3.16	-13.0	23.07	285.00	Vertical	Vertical	N/A
1779.000	-49.97	3.45	-13.0	-36.97	32.00	Vertical	Vertical	Pass
2972.500	-47.94	5.76	-13.0	-34.94	271.00	Vertical	Vertical	Pass
6978.000	-41.48	14.04	-13.0	-28.48	86.00	Vertical	Vertical	Pass

Work Mode: LTE B71 CH133297 BW10 Remark: N.A



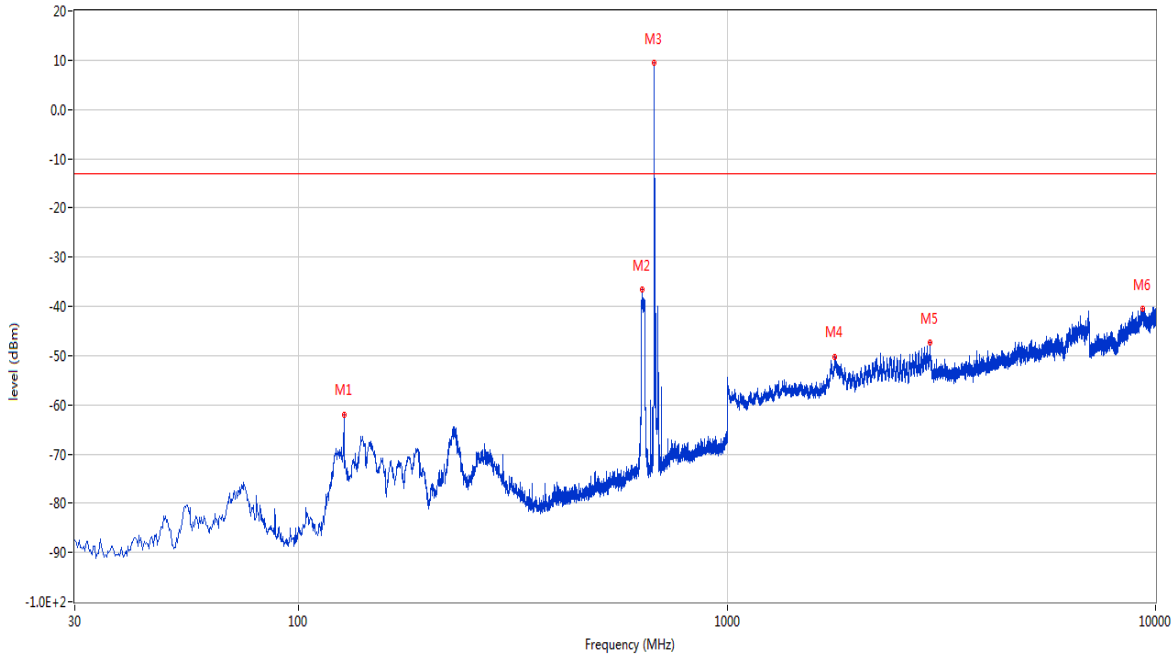
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
127.485	-62.86	-19.44	-13.0	-49.86	291.00	Horizontal	Horizontal	Pass
633.825	-39.28	-2.78	-13.0	-26.28	233.00	Horizontal	Horizontal	N/A
678.687	7.81	-3.14	-13.0	20.81	19.00	Horizontal	Horizontal	N/A
1794.000	-50.49	2.78	-13.0	-37.49	221.00	Horizontal	Horizontal	Pass
2883.000	-47.59	5.48	-13.0	-34.59	83.00	Horizontal	Horizontal	Pass
9298.000	-39.80	17.66	-13.0	-26.80	113.00	Horizontal	Horizontal	Pass

Work Mode: LTE B71 CH133297 BW10 Remark: N.A



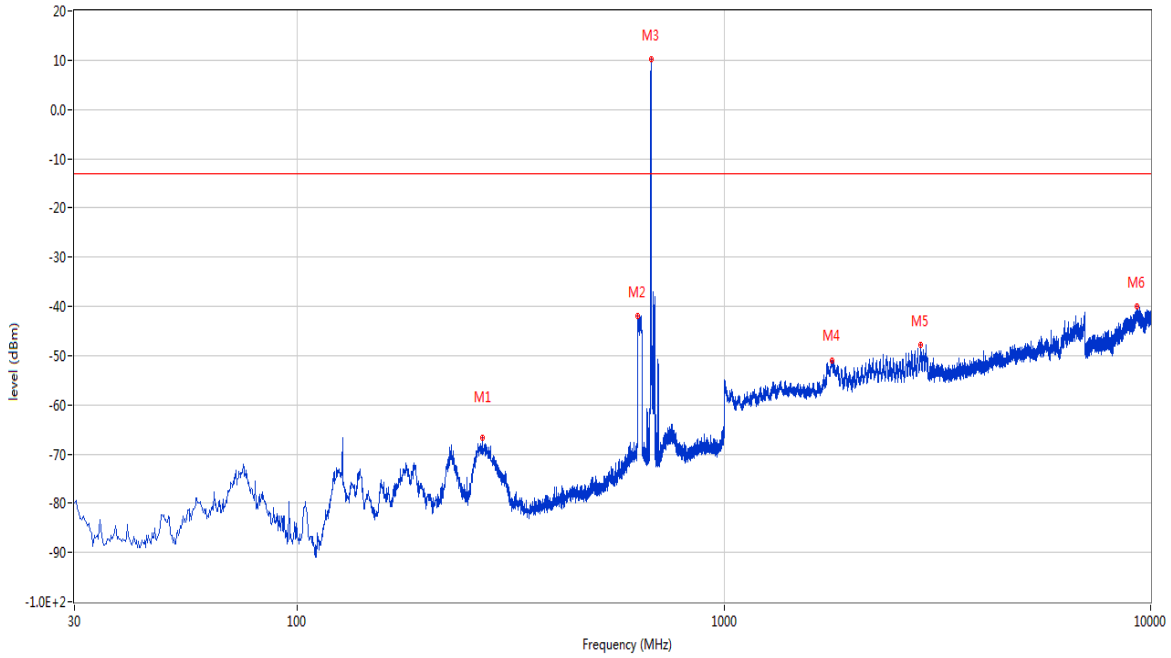
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
127.485	-65.92	-19.44	-13.0	-52.92	205.00	Vertical	Vertical	Pass
638.190	-42.08	-2.64	-13.0	-29.08	192.00	Vertical	Vertical	N/A
676.020	10.16	-3.12	-13.0	23.16	125.00	Vertical	Vertical	N/A
1782.000	-50.54	3.62	-13.0	-37.54	97.00	Vertical	Vertical	Pass
2930.000	-47.67	6.10	-13.0	-34.67	233.00	Vertical	Vertical	Pass
9269.500	-40.21	17.19	-13.0	-27.21	233.00	Vertical	Vertical	Pass

Work Mode: LTE B71 CH133297 BW15 Remark: N.A



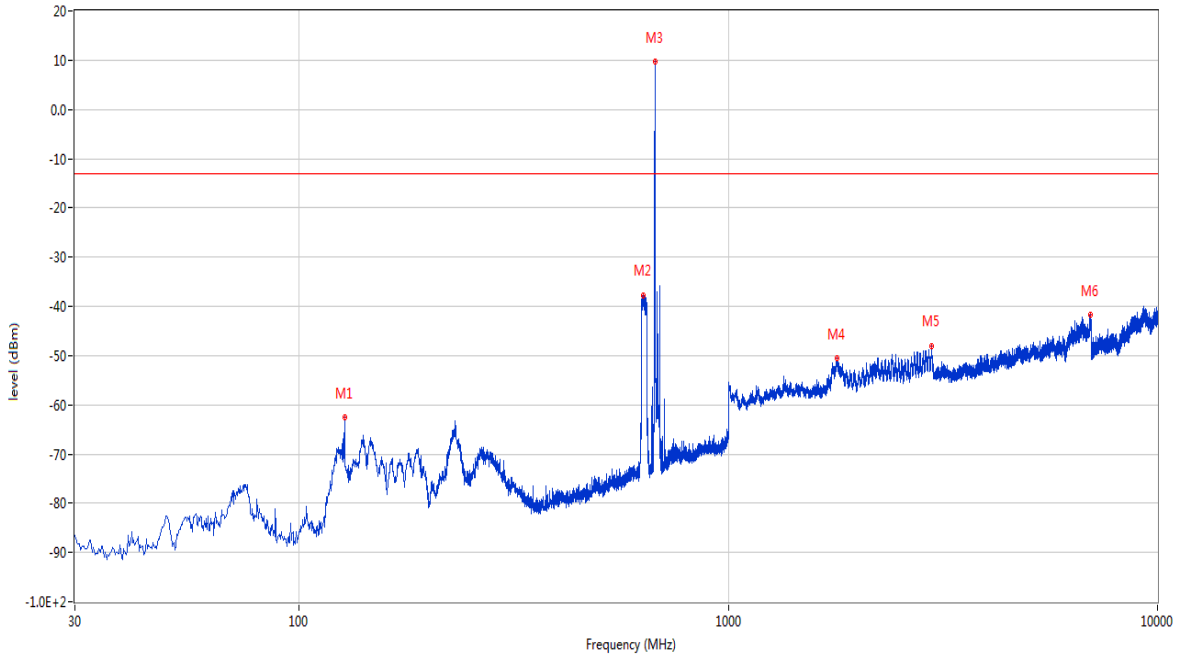
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
127.485	-61.96	-19.44	-13.0	-48.96	280.00	Horizontal	Horizontal	Pass
632.855	-36.62	-2.79	-13.0	-23.62	214.00	Horizontal	Horizontal	N/A
676.263	9.41	-3.12	-13.0	22.41	186.00	Horizontal	Horizontal	N/A
1783.000	-50.21	3.58	-13.0	-37.21	246.00	Horizontal	Horizontal	Pass
2978.000	-47.41	5.74	-13.0	-34.41	133.00	Horizontal	Horizontal	Pass
9327.250	-40.48	17.49	-13.0	-27.48	341.00	Horizontal	Horizontal	Pass

Work Mode: LTE B71 CH133297 BW15 Remark: N.A



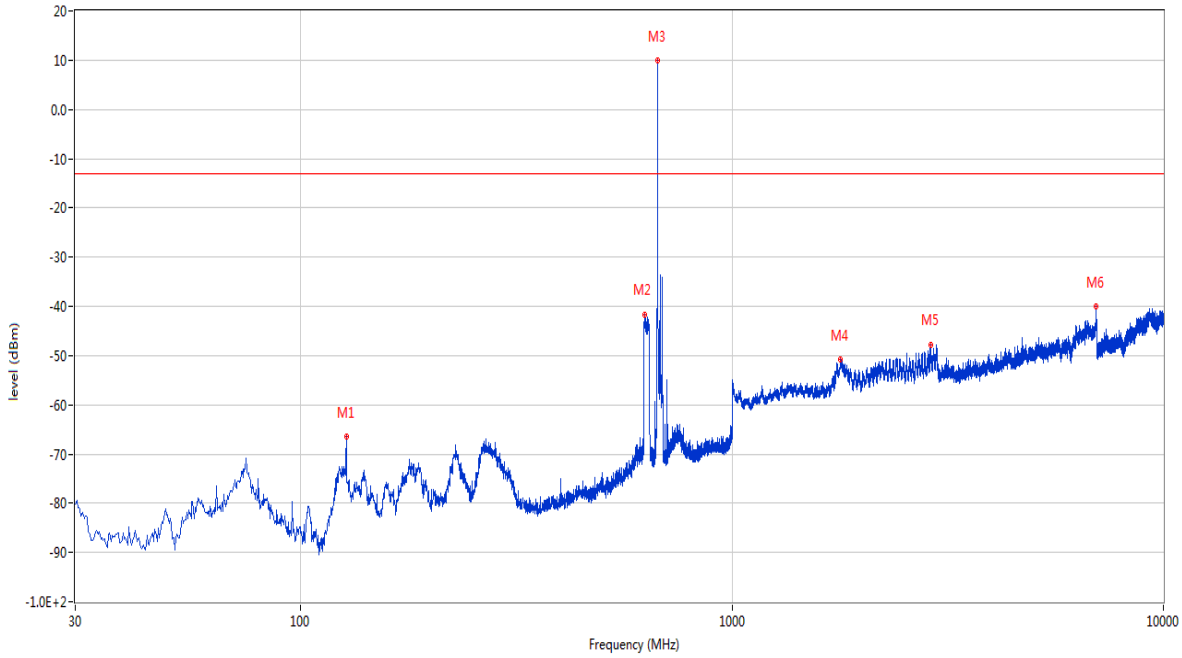
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
271.288	-66.58	-13.11	-13.0	-53.58	352.00	Vertical	Vertical	Pass
628.247	-42.03	-2.69	-13.0	-29.03	143.00	Vertical	Vertical	N/A
673.838	10.16	-3.15	-13.0	23.16	297.00	Vertical	Vertical	N/A
1789.000	-51.01	3.32	-13.0	-38.01	7.00	Vertical	Vertical	Pass
2887.500	-47.77	5.40	-13.0	-34.77	224.00	Vertical	Vertical	Pass
9283.000	-40.04	17.32	-13.0	-27.04	358.00	Vertical	Vertical	Pass

Work Mode: LTE B71 CH133322 BW20 Remark: N.A



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
127.485	-62.53	-19.44	-13.0	-49.53	264.00	Horizontal	Horizontal	Pass
634.310	-37.73	-2.76	-13.0	-24.73	219.00	Horizontal	Horizontal	N/A
674.080	9.73	-3.15	-13.0	22.73	188.00	Horizontal	Horizontal	N/A
1788.000	-50.57	3.47	-13.0	-37.57	97.00	Horizontal	Horizontal	Pass
2971.500	-47.97	5.79	-13.0	-34.97	274.00	Horizontal	Horizontal	Pass
6996.000	-41.77	13.35	-13.0	-28.77	189.00	Horizontal	Horizontal	Pass

Work Mode: LTE B71 CH133322 BW20 Remark: N.A



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
127.485	-66.47	-19.44	-13.0	-53.47	212.00	Vertical	Vertical	Pass
635.278	-41.73	-2.70	-13.0	-28.73	145.00	Vertical	Vertical	N/A
674.655	9.94	-3.06	-13.0	22.94	120.00	Vertical	Vertical	N/A
1786.500	-50.84	3.60	-13.0	-37.84	165.00	Vertical	Vertical	Pass
2885.500	-47.77	5.43	-13.0	-34.77	98.00	Vertical	Vertical	Pass
6985.000	-39.88	14.23	-13.0	-26.88	124.00	Vertical	Vertical	Pass