

LTE Band 2, 1.4MHz, QPSK, Channel 18607

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3702.02	-53.83	6.42	8.48	-51.77	-13.00	38.77	V
5516.02	-55.99	7.12	10.60	-52.51	-13.00	39.51	V
7438.01	-54.18	8.22	12.13	-50.27	-13.00	37.27	V
9275.01	-53.35	9.10	13.27	-49.18	-13.00	36.18	V
11055.01	-50.74	9.92	13.19	-47.47	-13.00	34.47	V
12958.01	-48.92	10.48	13.47	-45.93	-13.00	32.93	V

LTE Band 2, 1.4MHz, QPSK, Channel 18900

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3760.02	-51.48	6.26	8.56	-49.18	-13.00	36.18	H
5604.02	-55.56	7.24	10.58	-52.22	-13.00	39.22	H
7553.01	-54.70	8.17	12.24	-50.63	-13.00	37.63	H
9448.01	-53.29	9.28	13.37	-49.20	-13.00	36.20	H
11305.01	-50.46	10.00	13.14	-47.32	-13.00	34.32	V
13207.01	-48.41	10.50	13.79	-45.12	-13.00	32.12	V

LTE Band 2, 1.4MHz, QPSK, Channel 19193

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3819.02	-49.47	6.08	8.65	-46.90	-13.00	33.90	V
5750.02	-55.47	7.26	10.55	-52.18	-13.00	39.18	V
7647.01	-54.47	8.19	12.32	-50.34	-13.00	37.34	V
9562.01	-52.53	9.32	13.34	-48.51	-13.00	35.51	V
11497.01	-50.49	9.82	13.10	-47.21	-13.00	34.21	V
13406.01	-48.12	10.57	14.07	-44.62	-13.00	31.62	H

LTE Band 4, 1.4MHz, QPSK, Channel 19957

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3422.02	-64.45	5.38	8.01	-61.82	-13.00	48.82	H
5135.02	-65.67	6.86	10.09	-62.44	-13.00	49.44	V
6846.01	-64.55	7.83	11.42	-60.96	-13.00	47.96	V
8572.01	-64.94	8.54	13.01	-60.47	-13.00	47.47	V
10262.01	-62.39	9.51	13.00	-58.90	-13.00	45.90	V
12017.01	-60.29	10.10	13.01	-57.38	-13.00	44.38	V

LTE Band 4, 1.4MHz, QPSK, Channel 20175

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.02	-62.75	5.46	8.12	-60.09	-13.00	47.09	H
5198.02	-64.59	6.96	10.18	-61.37	-13.00	48.37	V
6933.01	-64.60	7.78	11.52	-60.86	-13.00	47.86	V
8646.01	-64.85	8.43	13.03	-60.25	-13.00	47.25	V
10389.01	-62.06	9.78	13.06	-58.78	-13.00	45.78	V
12177.01	-60.04	10.13	13.07	-57.10	-13.00	44.10	V

LTE Band 4, 1.4MHz, QPSK, Channel 20393

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3509.02	-64.58	5.54	8.21	-61.91	-13.00	48.91	V
5264.02	-63.83	6.99	10.27	-60.55	-13.00	47.55	V
7019.01	-64.13	8.27	11.62	-60.78	-13.00	47.78	V
8753.01	-64.98	8.52	13.05	-60.45	-13.00	47.45	V
10493.01	-61.84	9.66	13.10	-58.40	-13.00	45.40	V
12259.01	-60.18	10.02	13.10	-57.10	-13.00	44.10	V

LTE Band 5, 1.4MHz, QPSK, Channel 20407

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1660.01	-45.09	3.57	5.21	2.15	-45.60	-13.00	32.60	H
2473.00	-46.17	4.60	6.02	2.15	-46.90	-13.00	33.90	H
3306.02	-55.43	5.29	7.73	2.15	-55.14	-13.00	42.14	V
4128.02	-55.26	6.04	9.03	2.15	-54.42	-13.00	41.42	V
4944.01	-54.23	6.70	9.84	2.15	-53.24	-13.00	40.24	H
5763.01	-53.82	7.24	10.55	2.15	-52.66	-13.00	39.66	H

LTE Band 5, 1.4MHz, QPSK, Channel 20525

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.01	-57.10	3.58	5.19	2.15	-57.64	-13.00	44.64	H
2501.00	-53.37	4.63	6.10	2.15	-54.05	-13.00	41.05	V
3359.02	-54.65	5.33	7.86	2.15	-54.27	-13.00	41.27	H
4191.02	-53.90	6.19	9.09	2.15	-53.15	-13.00	40.15	V
5019.01	-53.60	6.57	9.93	2.15	-52.39	-13.00	39.39	V
5864.01	-53.81	7.28	10.53	2.15	-52.71	-13.00	39.71	V

LTE Band 5, 1.4MHz, QPSK, Channel 20643

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1697.01	-57.00	3.60	5.15	2.15	-57.60	-13.00	44.60	H
2542.00	-52.40	4.66	6.18	2.15	-53.03	-13.00	40.03	H
3405.02	-55.20	5.37	7.97	2.15	-54.75	-13.00	41.75	V
4233.02	-54.39	6.26	9.13	2.15	-53.67	-13.00	40.67	H
5104.01	-53.76	6.78	10.05	2.15	-52.64	-13.00	39.64	V
5952.01	-52.99	7.47	10.51	2.15	-52.10	-13.00	39.10	V

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5018.02	-56.33	6.57	9.93	-52.97	-25.00	27.97	V
7524.01	-54.87	8.29	12.22	-50.94	-25.00	25.94	V
10019.01	-52.20	9.23	12.91	-48.52	-25.00	23.52	V
12530.01	-49.28	10.26	13.22	-46.32	-25.00	21.32	V
15031.00	-45.71	11.26	13.98	-42.99	-25.00	17.99	V
17529.00	-43.83	12.84	14.94	-41.73	-25.00	16.73	H

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5065.02	-55.92	6.67	9.99	-52.60	-25.00	27.60	H
7619.01	-54.11	8.06	12.30	-49.87	-25.00	24.87	H
10127.01	-52.28	9.42	12.95	-48.75	-25.00	23.75	V
12662.01	-48.35	10.36	13.30	-45.41	-25.00	20.41	V
15206.00	-44.96	11.39	13.88	-42.47	-25.00	17.47	H
17760.00	-44.16	12.51	15.26	-41.41	-25.00	16.41	V

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5134.02	-55.46	6.86	10.09	-52.23	-25.00	27.23	V
7702.01	-53.09	8.42	12.36	-49.15	-25.00	24.15	V
10269.01	-51.81	9.54	13.01	-48.34	-25.00	23.34	V
12847.01	-48.38	10.64	13.41	-45.61	-25.00	20.61	H
15409.00	-44.30	11.41	13.75	-41.96	-25.00	16.96	H
17965.00	-43.93	12.89	15.55	-41.27	-25.00	16.27	V

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1400.01	-51.14	3.24	4.98	2.15	-51.55	-13.00	38.55	H
2099.00	-46.32	4.19	4.90	2.15	-47.76	-13.00	34.76	H
2813.00	-52.21	4.93	6.66	2.15	-52.63	-13.00	39.63	H
3501.02	-54.68	5.52	8.20	2.15	-54.15	-13.00	41.15	H
4186.02	-54.04	6.17	9.09	2.15	-53.27	-13.00	40.27	V
4911.01	-54.50	6.73	9.81	2.15	-53.57	-13.00	40.57	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.01	-50.10	3.25	5.06	2.15	-50.44	-13.00	37.44	H
2116.00	-50.00	4.21	4.95	2.15	-51.41	-13.00	38.41	H
2837.00	-52.54	4.95	6.71	2.15	-52.93	-13.00	39.93	V
3534.02	-55.06	5.66	8.25	2.15	-54.62	-13.00	41.62	H
4256.02	-54.03	6.23	9.16	2.15	-53.25	-13.00	40.25	H
4956.01	-54.12	6.68	9.86	2.15	-53.09	-13.00	40.09	V

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1431.01	-43.68	3.28	5.14	2.15	-43.97	-13.00	30.97	H
2146.00	-52.55	4.24	5.04	2.15	-53.90	-13.00	40.90	H
2859.00	-51.71	4.96	6.75	2.15	-52.07	-13.00	39.07	V
3584.02	-52.85	6.17	8.32	2.15	-52.85	-13.00	39.85	H
4291.02	-53.90	6.20	9.19	2.15	-53.06	-13.00	40.06	H
4999.01	-54.04	6.60	9.90	2.15	-52.89	-13.00	39.89	V

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1547.01	-56.13	3.46	5.42	2.15	-56.32	-13.00	43.32	V
2337.00	-54.40	4.44	5.61	2.15	-55.38	-13.00	42.38	H
3106.02	-53.05	5.34	7.25	2.15	-53.29	-13.00	40.29	V
3903.02	-54.33	6.11	8.76	2.15	-53.83	-13.00	40.83	V
4690.02	-53.94	6.50	9.59	2.15	-53.00	-13.00	40.00	V
5448.01	-54.37	6.86	10.53	2.15	-52.85	-13.00	39.85	V

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1568.01	-59.31	3.48	5.38	2.15	-59.56	-13.00	46.56	H
2359.00	-53.76	4.47	5.68	2.15	-54.70	-13.00	41.70	V
3124.02	-52.20	5.40	7.30	2.15	-52.45	-13.00	39.45	V
3898.02	-54.87	6.11	8.76	2.15	-54.37	-13.00	41.37	V
4706.02	-54.09	6.51	9.61	2.15	-53.14	-13.00	40.14	V
5459.01	-54.34	6.90	10.54	2.15	-52.85	-13.00	39.85	V

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1578.01	-59.22	3.49	5.36	2.15	-59.50	-13.00	46.50	H
2357.00	-48.98	4.47	5.67	2.15	-49.93	-13.00	36.93	H
3140.02	-53.15	5.38	7.34	2.15	-53.34	-13.00	40.34	H
3910.02	-54.01	6.12	8.77	2.15	-53.51	-13.00	40.51	V
4708.02	-54.30	6.51	9.61	2.15	-53.35	-13.00	40.35	V
5503.01	-53.86	7.07	10.60	2.15	-52.48	-13.00	39.48	H

LTE Band 14, 5MHz, QPSK, Channel 23305

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1567.01	-59.58	3.48	5.38	2.15	-59.83	-13.00	46.83	H
2372.00	-54.45	4.48	5.72	2.15	-55.36	-13.00	42.36	H
3149.02	-53.59	5.37	7.36	2.15	-53.75	-13.00	40.75	H
3965.02	-54.71	6.09	8.85	2.15	-54.10	-13.00	41.10	V
4734.02	-53.74	6.54	9.63	2.15	-52.80	-13.00	39.80	V
5525.01	-54.67	7.16	10.59	2.15	-53.39	-13.00	40.39	H

LTE Band 14, 5MHz, QPSK, Channel 23330

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1573.01	-60.56	3.49	5.37	2.15	-60.83	-13.00	47.83	H
2381.00	-54.18	4.49	5.74	2.15	-55.08	-13.00	42.08	V
3177.02	-53.21	5.33	7.42	2.15	-53.27	-13.00	40.27	V
3972.02	-54.94	6.09	8.86	2.15	-54.32	-13.00	41.32	H
4760.01	-53.17	6.59	9.66	2.15	-52.25	-13.00	39.25	H
5555.01	-54.08	7.19	10.59	2.15	-52.83	-13.00	39.83	V

LTE Band 14, 5MHz, QPSK, Channel 23355

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1580.01	-60.02	3.50	5.36	2.15	-60.31	-13.00	47.31	V
2388.00	-54.54	4.50	5.76	2.15	-55.43	-13.00	42.43	H
3178.02	-53.25	5.33	7.43	2.15	-53.30	-13.00	40.30	V
3991.02	-55.48	6.07	8.89	2.15	-54.81	-13.00	41.81	H
4759.01	-54.75	6.59	9.66	2.15	-53.83	-13.00	40.83	V
5564.01	-53.23	7.20	10.59	2.15	-51.99	-13.00	38.99	V

LTE Band 17, 5MHz, QPSK, Channel 23755

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1413.01	-49.90	3.25	5.05	2.15	-50.25	-13.00	37.25	H
2120.00	-51.82	4.21	4.96	2.15	-53.22	-13.00	40.22	H
2816.00	-51.64	4.94	6.67	2.15	-52.06	-13.00	39.06	H
3520.02	-54.45	5.56	8.23	2.15	-53.93	-13.00	40.93	V
4227.02	-55.05	6.26	9.13	2.15	-54.33	-13.00	41.33	H
4944.01	-54.28	6.70	9.84	2.15	-53.29	-13.00	40.29	H

LTE Band 17, 5MHz, QPSK, Channel 23790

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1421.01	-44.35	3.26	5.09	2.15	-44.67	-13.00	31.67	H
2131.00	-47.85	4.22	4.99	2.15	-49.23	-13.00	36.23	H
2843.00	-51.97	4.96	6.72	2.15	-52.36	-13.00	39.36	H
3555.02	-54.17	5.87	8.28	2.15	-53.91	-13.00	40.91	V
4257.02	-52.76	6.23	9.16	2.15	-51.98	-13.00	38.98	H
4974.01	-54.09	6.65	9.87	2.15	-53.02	-13.00	40.02	V

LTE Band 17, 5MHz, QPSK, Channel 23825

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1428.01	-43.58	3.27	5.13	2.15	-43.87	-13.00	30.87	H
2141.00	-52.31	4.24	5.02	2.15	-53.68	-13.00	40.68	H
2868.00	-52.17	4.97	6.76	2.15	-52.53	-13.00	39.53	V
3555.02	-54.50	5.87	8.28	2.15	-54.24	-13.00	41.24	V
4283.02	-54.73	6.21	9.18	2.15	-53.91	-13.00	40.91	V
4997.01	-54.34	6.61	9.90	2.15	-53.20	-13.00	40.20	V

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5556.02	-51.54	7.19	10.59	-48.14	-13.00	35.14	H
9861.01	-52.22	9.07	13.04	-48.25	-13.00	35.25	V
11393.01	-49.63	10.06	13.12	-46.57	-13.00	33.57	V
13461.01	-47.22	10.61	14.15	-43.68	-13.00	30.68	V
15418.00	-43.42	11.42	13.75	-41.09	-13.00	28.09	H
16885.00	-41.51	12.01	13.75	-39.77	-13.00	26.77	V

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765.02	-50.80	6.25	8.57	-48.48	-13.00	35.48	H
9402.01	-53.07	9.05	13.34	-48.78	-13.00	35.78	V
11277.01	-50.55	9.86	13.14	-47.27	-13.00	34.27	V
13140.01	-47.88	10.76	13.70	-44.94	-13.00	31.94	H
15020.00	-45.31	11.24	13.99	-42.56	-13.00	29.56	H
16911.00	-42.36	12.04	13.76	-40.64	-13.00	27.64	H

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3829.02	-45.30	6.06	8.66	-42.70	-13.00	29.70	V
9559.01	-52.62	9.33	13.34	-48.61	-13.00	35.61	V
11522.01	-49.58	9.81	13.10	-46.29	-13.00	33.29	H
13365.01	-48.14	10.57	14.01	-44.70	-13.00	31.70	V
15357.00	-44.86	11.34	13.79	-42.41	-13.00	29.41	H
17200.00	-43.82	12.35	14.24	-41.93	-13.00	28.93	H

LTE Band 26(824MHz~849MHz), 1.4MHz, QPSK, Channel 26797

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1650.01	-54.92	3.57	5.23	2.15	-55.41	-13.00	42.41	H
2461.00	-46.03	4.58	5.98	2.15	-46.78	-13.00	33.78	H
3318.02	-55.12	5.29	7.76	2.15	-54.80	-13.00	41.80	H
4122.02	-55.09	6.04	9.02	2.15	-54.26	-13.00	41.26	H
4946.01	-54.22	6.70	9.85	2.15	-53.22	-13.00	40.22	V
5777.01	-53.81	7.22	10.54	2.15	-52.64	-13.00	39.64	V

LTE Band 26(824MHz~849MHz), 1.4MHz, QPSK, Channel 26915

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.01	-53.67	3.58	5.19	2.15	-54.21	-13.00	41.21	V
2510.00	-52.22	4.63	6.12	2.15	-52.88	-13.00	39.88	V
3350.02	-54.33	5.32	7.84	2.15	-53.96	-13.00	40.96	H
4186.02	-54.42	6.17	9.09	2.15	-53.65	-13.00	40.65	V
5038.01	-53.57	6.60	9.95	2.15	-52.37	-13.00	39.37	V
5848.01	-53.53	7.23	10.53	2.15	-52.38	-13.00	39.38	V

LTE Band 26(824MHz~849MHz), 1.4MHz, QPSK, Channel 27033

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1697.01	-48.36	3.60	5.15	2.15	-48.96	-13.00	35.96	H
2545.00	-43.89	4.66	6.18	2.15	-44.52	-13.00	31.52	H
3400.02	-54.53	5.36	7.96	2.15	-54.08	-13.00	41.08	V
4242.02	-54.65	6.25	9.14	2.15	-53.91	-13.00	40.91	H
5090.01	-54.17	6.74	10.03	2.15	-53.03	-13.00	40.03	H
5932.01	-53.09	7.47	10.51	2.15	-52.20	-13.00	39.20	V

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26697

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2461.00	-46.09	4.58	5.98	2.15	-46.84	-13.00	33.84	V
6522.01	-52.61	7.50	11.03	2.15	-51.23	-13.00	38.23	V
7351.01	-52.50	8.11	12.02	2.15	-50.74	-13.00	37.74	H
8158.01	-51.88	8.43	12.73	2.15	-49.73	-13.00	36.73	V
8964.00	-50.93	9.07	13.09	2.15	-49.06	-13.00	36.06	V
9784.00	-50.60	9.00	13.12	2.15	-48.63	-13.00	35.63	H

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26740

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1648.01	-60.12	3.56	5.23	2.15	-60.60	-13.00	47.60	V
2460.00	-47.77	4.58	5.98	2.15	-48.52	-13.00	35.52	H
3261.02	-54.39	5.28	7.63	2.15	-54.19	-13.00	41.19	V
4096.02	-54.72	6.04	9.00	2.15	-53.91	-13.00	40.91	V
4905.01	-54.43	6.73	9.81	2.15	-53.50	-13.00	40.50	H
5727.01	-53.91	7.30	10.55	2.15	-52.81	-13.00	39.81	H

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26783

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2462.00	-46.16	4.58	5.99	2.15	-46.90	-13.00	33.90	V
6664.01	-50.85	7.94	11.20	2.15	-49.74	-13.00	36.74	V
7389.01	-51.70	8.12	12.07	2.15	-49.90	-13.00	36.90	V
8241.01	-50.42	8.58	12.79	2.15	-48.36	-13.00	35.36	V
9046.00	-49.95	9.08	13.13	2.15	-48.05	-13.00	35.05	V
9996.00	-50.06	9.18	12.90	2.15	-48.49	-13.00	35.49	V

LTE Band 30, 5MHz, QPSK, Channel 27685

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4615.02	-65.69	6.45	9.52	-62.62	-40.00	22.62	V
6922.01	-58.78	7.72	11.51	-54.99	-40.00	14.99	V
9234.01	-64.33	9.00	13.24	-60.09	-40.00	20.09	V
11546.01	-60.97	9.81	13.09	-57.69	-40.00	17.69	V
13846.01	-58.58	10.70	14.41	-54.87	-40.00	14.87	V
16167.00	-53.75	11.77	13.67	-51.85	-40.00	11.85	H

LTE Band 30, 5MHz, QPSK, Channel 27710

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4625.02	-65.68	6.44	9.53	-62.59	-40.00	22.59	V
6937.01	-59.52	7.81	11.52	-55.81	-40.00	15.81	H
9253.01	-63.97	9.05	13.25	-59.77	-40.00	19.77	V
11531.01	-60.90	9.81	13.09	-57.62	-40.00	17.62	V
13862.01	-58.61	10.73	14.42	-54.92	-40.00	14.92	V
16171.00	-53.71	11.77	13.67	-51.81	-40.00	11.81	H

LTE Band 30, 5MHz, QPSK, Channel 27735

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4626.02	-66.07	6.44	9.53	-62.98	-40.00	22.98	H
6939.01	-57.21	7.83	11.53	-53.51	-40.00	13.51	H
9262.01	-63.88	9.07	13.26	-59.69	-40.00	19.69	V
11571.01	-60.91	9.80	13.09	-57.62	-40.00	17.62	V
13878.01	-58.55	10.76	14.43	-54.88	-40.00	14.88	H
16201.00	-53.76	11.73	13.66	-51.83	-40.00	11.83	H

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
4996.02	-56.51	6.61	9.90	-53.22	-25.00	28.22	V
7497.01	-54.30	8.39	12.20	-50.49	-25.00	25.49	H
9993.01	-53.22	9.17	12.91	-49.48	-25.00	24.48	V
12491.01	-49.80	10.20	13.20	-46.80	-25.00	21.80	V
14992.00	-45.65	11.21	14.01	-42.85	-25.00	17.85	H
17492.00	-44.39	12.71	14.88	-42.22	-25.00	17.22	H

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
6500.02	-54.12	7.52	11.00	-50.64	-25.00	25.64	H
7790.01	-54.27	8.30	12.43	-50.14	-25.00	25.14	V
10359.01	-51.04	9.74	13.04	-47.74	-25.00	22.74	V
12969.01	-48.69	10.48	13.48	-45.69	-25.00	20.69	H
15556.00	-44.30	11.51	13.70	-42.11	-25.00	17.11	H
16853.00	-42.17	12.05	13.74	-40.48	-25.00	15.48	H

LTE Band 41, 5MHz, QPSK, Channel

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5383.02	-56.52	6.86	10.44	-52.94	-25.00	27.94	H
8066.01	-54.52	8.32	12.65	-50.19	-25.00	25.19	V
10764.01	-51.60	9.46	13.15	-47.91	-25.00	22.91	V
13439.01	-48.40	10.60	14.11	-44.89	-25.00	19.89	H
16107.00	-43.54	11.85	13.68	-41.71	-25.00	16.71	H
17456.00	-43.33	12.63	14.80	-41.16	-25.00	16.16	V

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3422.02	-64.76	5.38	8.01	-62.13	-13.00	49.13	H
5134.02	-65.32	6.86	10.09	-62.09	-13.00	49.09	H
6846.01	-64.55	7.83	11.42	-60.96	-13.00	47.96	V
8556.01	-64.88	8.57	13.01	-60.44	-13.00	47.44	V
10266.01	-62.34	9.53	13.01	-58.86	-13.00	45.86	V
11965.01	-60.20	10.21	13.01	-57.40	-13.00	44.40	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.02	-63.58	5.50	8.18	-60.90	-13.00	47.90	H
5237.02	-64.41	7.00	10.23	-61.18	-13.00	48.18	V
6984.01	-63.48	8.17	11.58	-60.07	-13.00	47.07	V
8752.01	-64.89	8.52	13.05	-60.36	-13.00	47.36	V
10497.01	-61.74	9.66	13.10	-58.30	-13.00	45.30	V
12205.01	-59.98	10.06	13.08	-56.96	-13.00	43.96	V

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3559.02	-58.88	5.92	8.28	-56.52	-13.00	43.52	H
5340.02	-54.62	6.96	10.38	-51.20	-13.00	38.20	V
7121.01	-63.66	8.16	11.75	-60.07	-13.00	47.07	V
8949.01	-64.17	9.02	13.09	-60.10	-13.00	47.10	V
10694.01	-61.90	9.30	13.14	-58.06	-13.00	45.06	V
12474.01	-59.76	10.24	13.19	-56.81	-13.00	43.81	V

LTE Band71_5MHz_CH133147_QPSK

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1319.01	-57.07	3.14	4.56	2.15	-57.80	-13.00	44.80	V
1997.01	-51.14	4.04	4.61	2.15	-52.72	-13.00	39.72	H
2679.00	-52.29	4.77	6.42	2.15	-52.79	-13.00	39.79	H
3328.02	-54.45	5.30	7.79	2.15	-54.11	-13.00	41.11	V
4000.02	-54.34	6.07	8.90	2.15	-53.66	-13.00	40.66	H
4634.02	-53.43	6.45	9.53	2.15	-52.50	-13.00	39.50	V

LTE Band71_5MHz_CH133297_QPSK

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1357.01	-54.69	3.18	4.76	2.15	-55.26	-13.00	42.26	H
2032.00	-55.46	4.13	4.70	2.15	-57.04	-13.00	44.04	V
2717.00	-52.42	4.80	6.49	2.15	-52.88	-13.00	39.88	H
3397.02	-55.43	5.36	7.95	2.15	-54.99	-13.00	41.99	V
4072.02	-54.00	6.04	8.97	2.15	-53.22	-13.00	40.22	V
4764.01	-54.54	6.60	9.66	2.15	-53.63	-13.00	40.63	H

LTE Band 71_5MHz_CH133447_QPSK

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361.01	-59.49	3.19	4.78	2.15	-60.05	-13.00	47.05	H
2087.00	-51.66	4.18	4.86	2.15	-53.13	-13.00	40.13	H
2799.00	-52.61	4.91	6.64	2.15	-53.03	-13.00	40.03	V
3486.02	-54.43	5.49	8.17	2.15	-53.90	-13.00	40.90	H
4175.02	-55.07	6.15	9.08	2.15	-54.29	-13.00	41.29	V
4897.01	-54.03	6.73	9.80	2.15	-53.11	-13.00	40.11	V

Note: The maximum value of expanded measurement uncertainty for this test item is U = 5.16 dB, k = 2.

A.3 Frequency Stability

A.3.1 Method of Measurement

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as F_L and F_H respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of CMW500.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

A.3.2 Measurement results

LTE Band 2, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	1850.994	1909.038		
50				-2.83	0.0015
40				-1.43	0.0008
30				-5.21	0.0028
10				-2.32	0.0012
0				-2.26	0.0012
-10				-4.06	0.0022
-20				-1.46	0.0008
-30				-4.03	0.0021

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.994	1909.038	-1.87	0.0010
4.4				-5.19	0.0028

LTE Band 4, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	1710.962	1754.071		
50				1.62	0.0009
40				6.88	0.0040
30				5.51	0.0032
10				5.44	0.0031
0				7.88	0.0045
-10				35.93	0.0207
-20				3.89	0.0022
-30				3.58	0.0021

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.962	1754.071	3.43	0.0020
4.4				3.36	0.0019

LTE Band 5, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	824.417	848.583		
50				0.49	0.0006
40				-0.33	0.0004
30				-1.96	0.0023
10				-1.22	0.0015
0				-3.30	0.0039
-10				-0.46	0.0005
-20				-1.44	0.0017
-30				-1.09	0.0013

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.417	848.583	-1.44	0.0017
4.4				-2.30	0.0027

LTE Band 7, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	2500.929	2569.103		
50				-33.43	0.0132
40				-32.76	0.0129
30				-33.79	0.0133
10				-31.19	0.0123
0				-31.24	0.0123
-10				-29.28	0.0116
-20				-34.00	0.0134
-30				-31.09	0.0123

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.929	2569.103	-30.80	0.0121
4.4				-264.09	0.1042

LTE Band 12, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	699.481	715.519		
50				-2.13	0.0030
40				-0.04	0.0001
30				-1.12	0.0016
10				-3.85	0.0054
0				-4.65	0.0066
-10				-3.96	0.0056
-20				-1.86	0.0026
-30				-1.73	0.0024

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	699.481	715.519	-0.93	0.0013
4.4				-0.14	0.0002

LTE Band 13, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	777.465	786.535		
50				2.95	0.0038
40				-0.89	0.0011
30				0.11	0.0001
10				0.86	0.0011
0				2.47	0.0032
-10				0.73	0.0009
-20				1.44	0.0018
-30				-2.17	0.0028

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	777.465	786.535	1.77	0.0023
4.4				2.49	0.0032

LTE Band 14, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	788.471	797.519		
50				1.52	0.0019
40				3.06	0.0039
30				1.06	0.0013
10				1.95	0.0025
0				3.56	0.0045
-10				2.83	0.0036
-20				2.89	0.0036
-30				3.73	0.0047

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	788.471	797.519	3.32	0.0042
4.4				3.69	0.0047

LTE Band 17, 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	704.497	715.503		
50				-1.17	0.0016
40				0.33	0.0005
30				-1.04	0.0015
10				-1.22	0.0017
0				0.79	0.0011
-10				-0.27	0.0004
-20				-3.43	0.0048
-30				0.19	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	704.497	715.503	-0.66	0.0009
4.4				-0.01	0.0000

LTE Band 25, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	1850.833	1914.199		
50				0.67	0.0004
40				-4.19	0.0022
30				-0.97	0.0005
10				-5.25	0.0028
0				-8.07	0.0043
-10				-5.01	0.0027
-20				-3.56	0.0019
-30				-1.27	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.833	1914.199	-5.26	0.0028
4.4				-6.54	0.0035

LTE Band 26(814MHz~824MHz), 10MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	814.389	823.611		
50				-1.95	0.0024
40				-0.90	0.0011
30				-3.22	0.0039
10				-1.24	0.0015
0				0.16	0.0002
-10				-1.06	0.0013
-20				-4.42	0.0054
-30				-3.26	0.0040

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.389	823.611	-1.97	0.0024
4.4				-1.07	0.0013

LTE Band 26(824MHz~849MHz), 15MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	824.649	848.399		
50				-2.12	0.0025
40				-4.45	0.0053
30				1.90	0.0023
10				0.40	0.0005
0				1.70	0.0020
-10				2.37	0.0028
-20				-0.54	0.0006
-30				1.13	0.0014

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.649	848.399	1.56	0.0019
4.4				-3.12	0.0037

LTE Band 30, 10MHz bandwidth QPSK (worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	2305.417	2314.583		
50				8.77	0.0038
40				8.27	0.0036
30				7.01	0.0030
10				9.46	0.0041
0				8.03	0.0035
-10				12.73	0.0055
-20				12.15	0.0053
-30				10.31	0.0045

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2305.417	2314.583	6.15	0.0027
4.4				8.34	0.0036

LTE Band 41, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	2496.769	2689.167		
50				2.65	0.0010
40				0.04	0.0000
30				1.00	0.0004
10				3.03	0.0012
0				2.50	0.0010
-10				-0.27	0.0001
-20				1.29	0.0005
-30				0.39	0.0002

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.769	2689.167	3.25	0.0013
4.4				2.79	0.0011

LTE Band 66, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	1710.801	1779.199		
50				-0.19	0.0001
40				-1.06	0.0006
30				-3.85	0.0022
10				4.71	0.0027
0				5.21	0.0030
-10				0.19	0.0001
-20				0.30	0.0002
-30				-5.58	0.0032

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.801	1779.199	2.60	0.0015
4.4				4.75	0.0027

LTE Band 71, 20MHz bandwidth QPSK (worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	4.0	663.994	697.006		
50				-0.47	0.0007
40				1.33	0.0020
30				0.36	0.0005
10				0.87	0.0013
0				-0.34	0.0005
-10				-3.03	0.0045
-20				-0.49	0.0007
-30				1.73	0.0025

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	663.994	697.006	2.52	0.0037
4.4				-0.79	0.0012

A.4 Occupied Bandwidth

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the mid frequencies frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

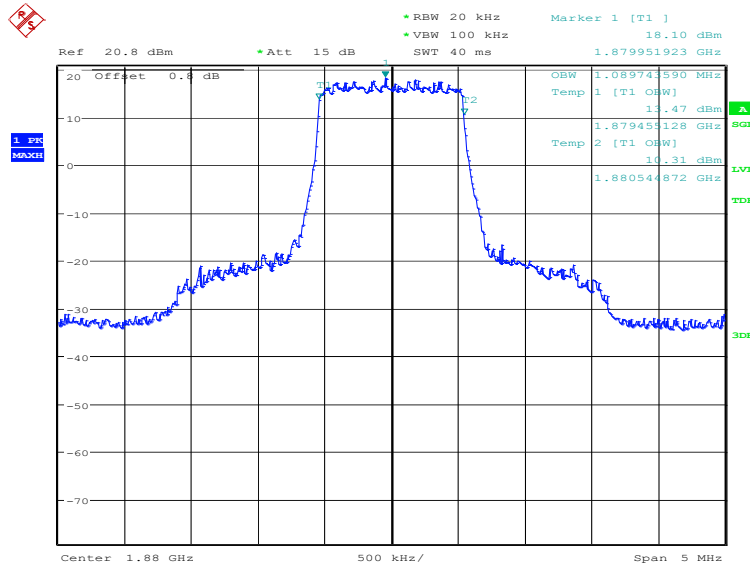
The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

LTE band 2, 1.4MHz (99%)

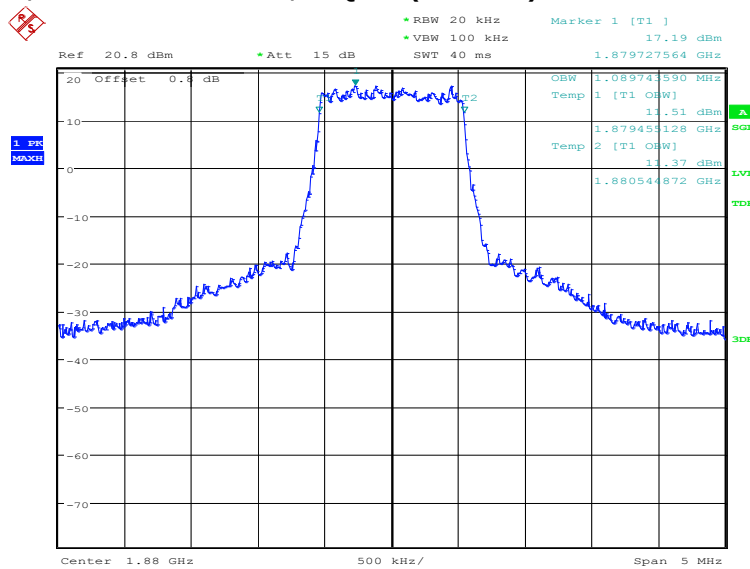
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	1089.74	1089.74

LTE band 2, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:31:10

LTE band 2, 1.4MHz Bandwidth, 16QAM (99% BW)

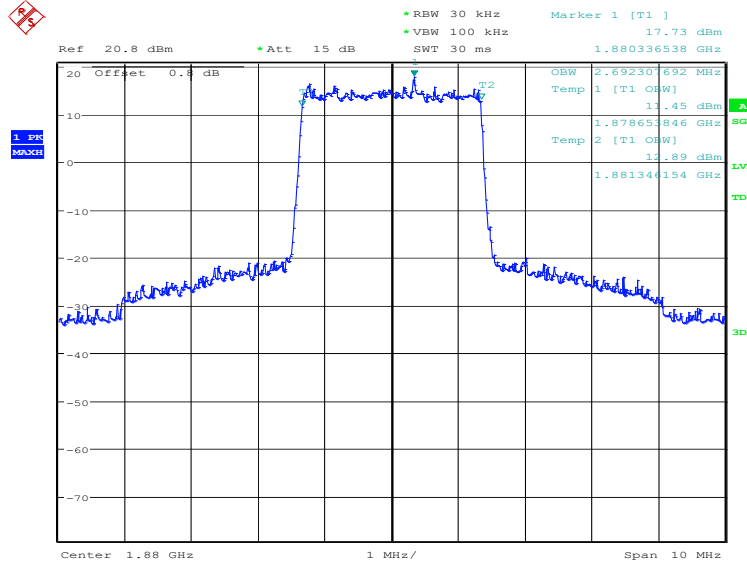


Date: 25.MAR.2021 18:31:50

LTE band 2, 3MHz (99%)

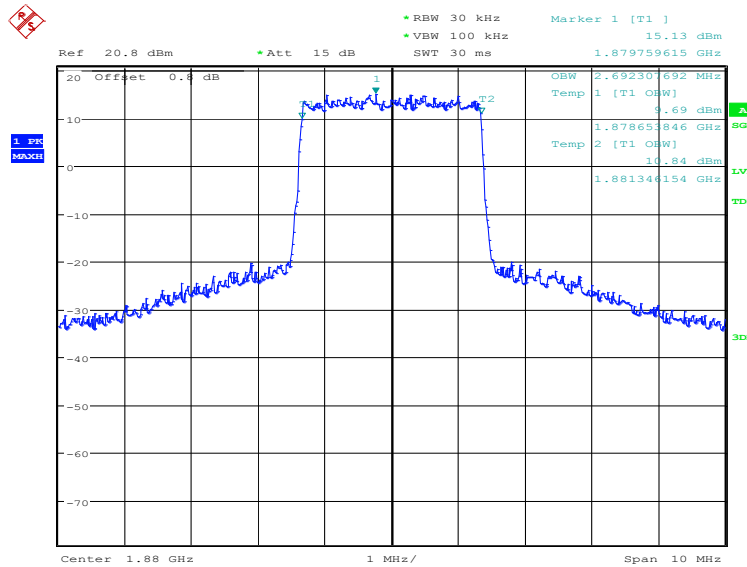
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	2692.31	2692.31

LTE band 2, 3MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:33:19

LTE band 2, 3MHz Bandwidth, 16QAM (99% BW)

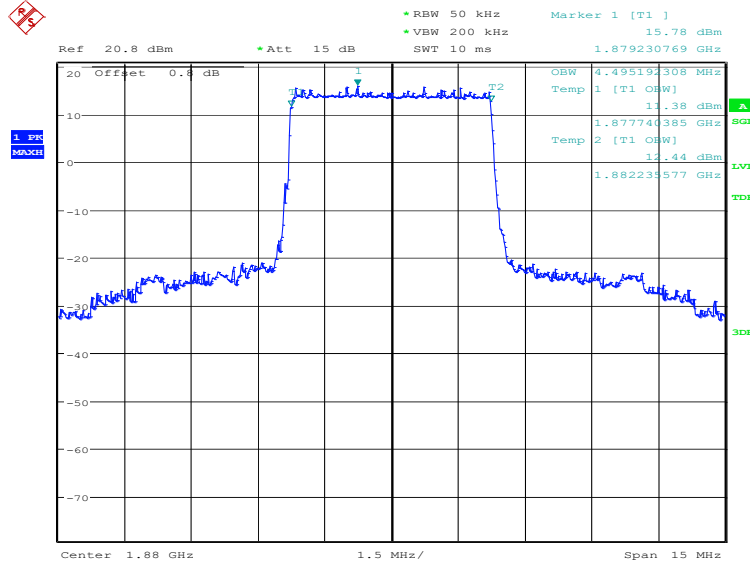


Date: 25.MAR.2021 18:33:58

LTE band 2, 5MHz (99%)

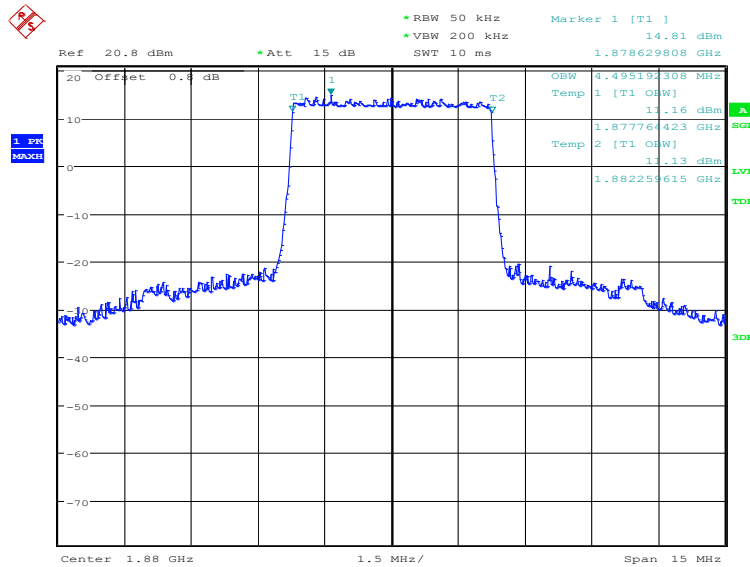
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	4495.19	4495.19

LTE band 2, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:35:27

LTE band 2, 5MHz Bandwidth, 16QAM (99% BW)

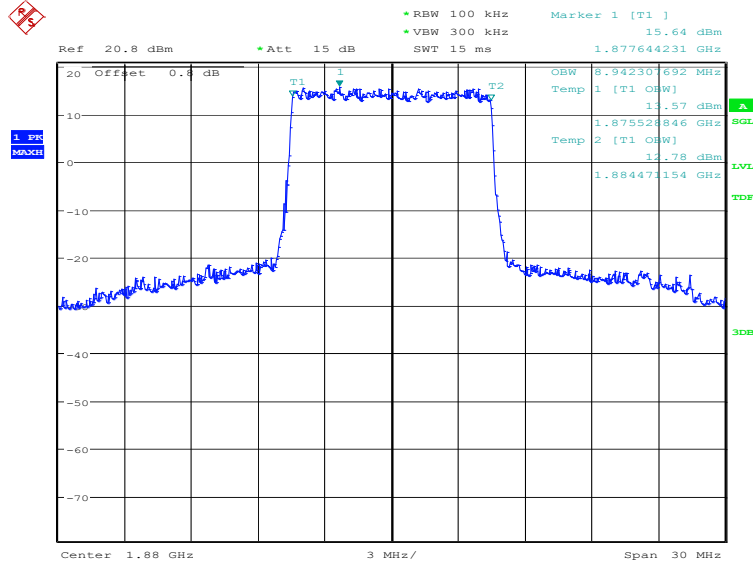


Date: 25.MAR.2021 18:36:07

LTE band 2, 10MHz (99%)

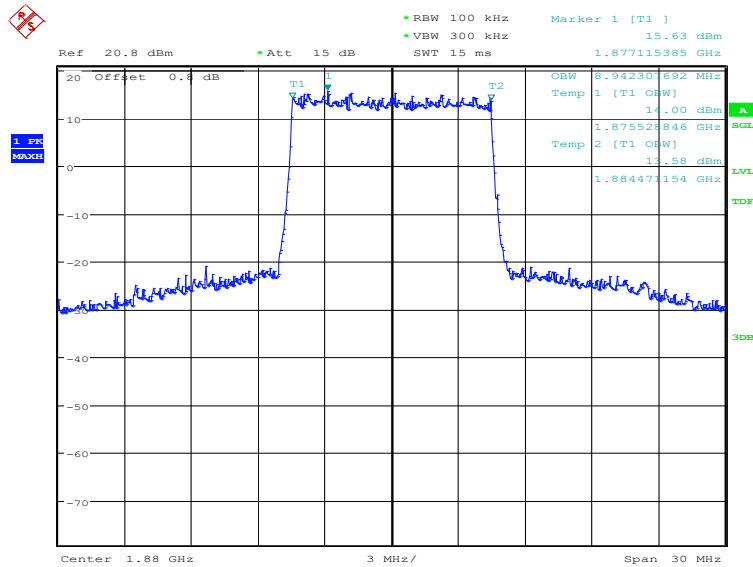
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	8942.31	8942.31

LTE band 2, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.APR.2021 16:27:47

LTE band 2, 10MHz Bandwidth, 16QAM (99% BW)

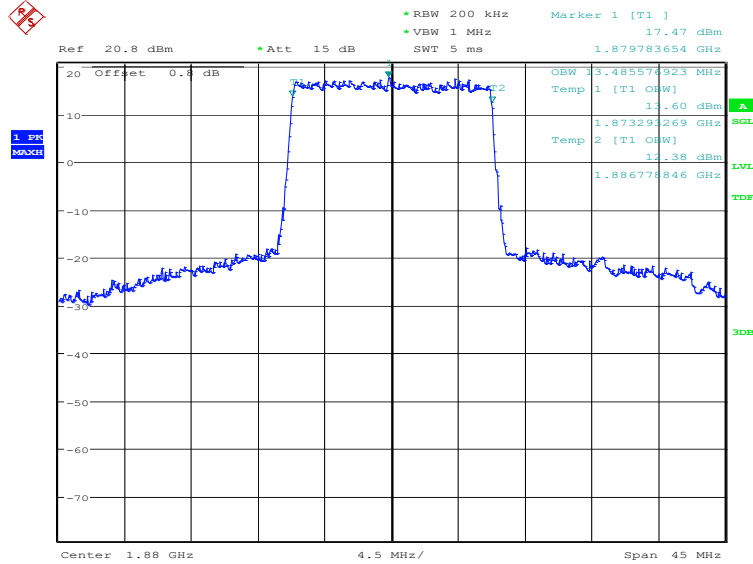


Date: 25.APR.2021 16:28:26

LTE band 2, 15MHz (99%)

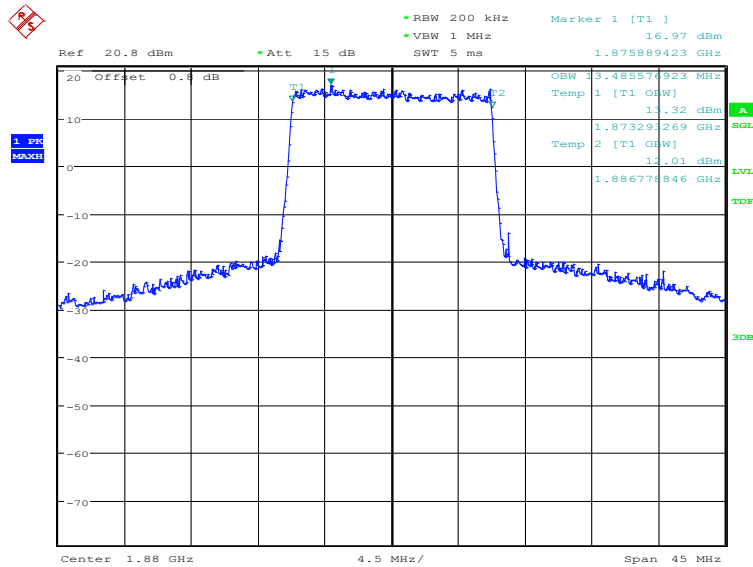
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	13485.58	13485.58

LTE band 2, 15MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:39:44

LTE band 2, 15MHz Bandwidth, 16QAM (99% BW)

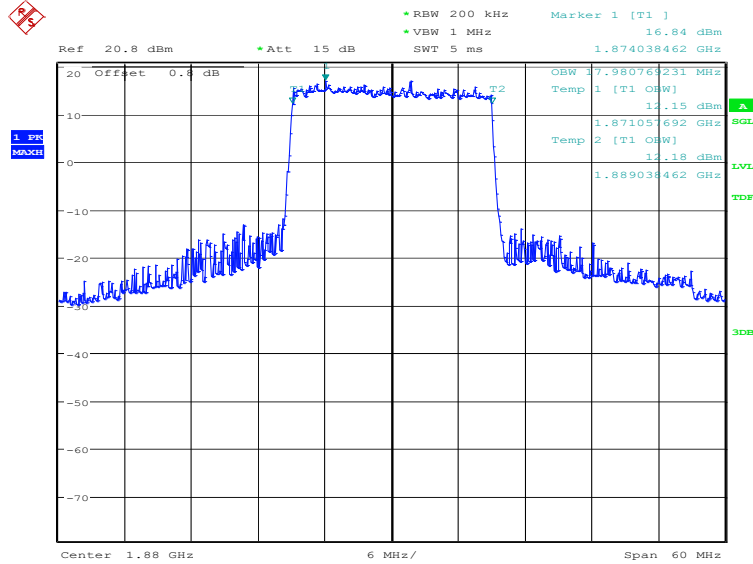


Date: 25.MAR.2021 18:40:23

LTE band 2, 20MHz (99%)

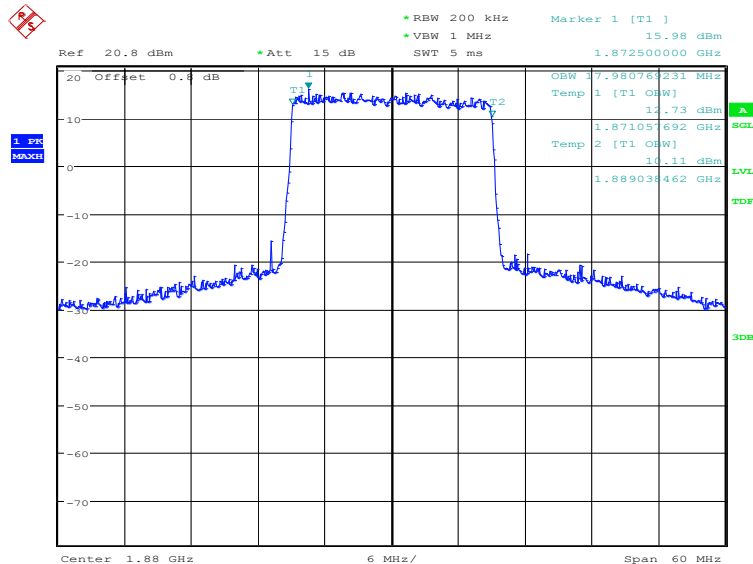
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	17980.77	17980.77

LTE band 2, 20MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:41:52

LTE band 2, 20MHz Bandwidth, 16QAM (99% BW)

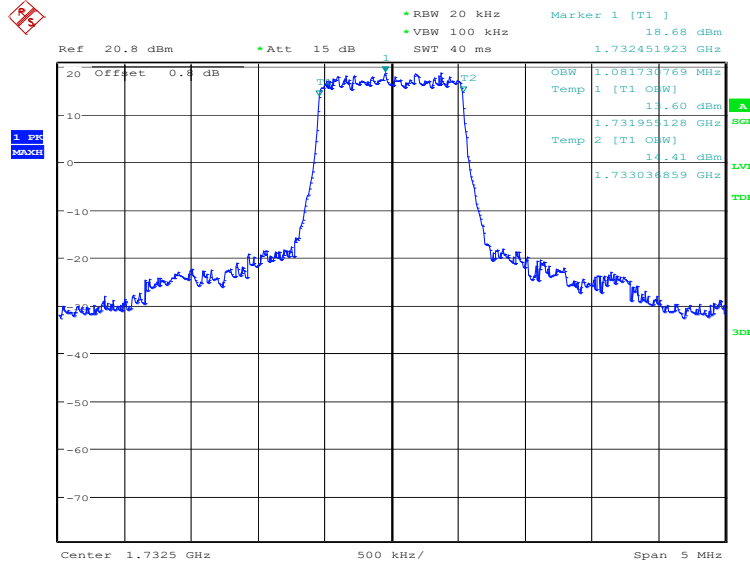


Date: 25.MAR.2021 18:42:32

LTE band 4, 1.4MHz (99%)

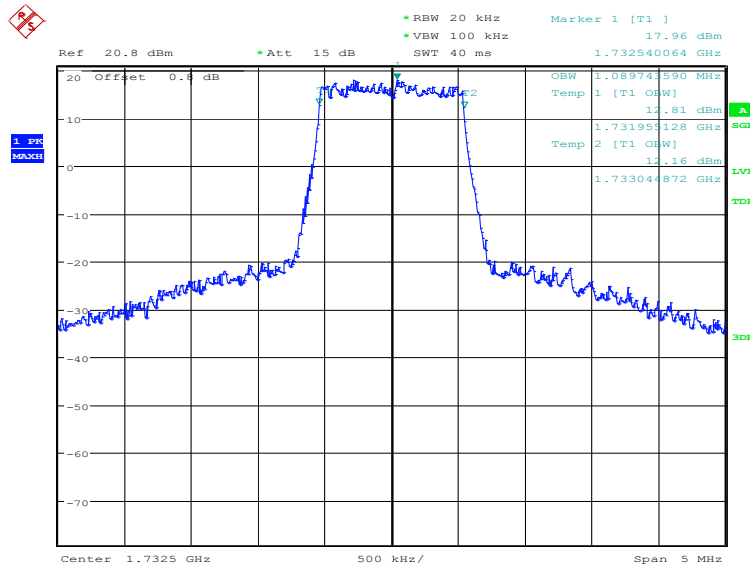
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	1081.73	1089.74

LTE band 4, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 25.APR.2021 16:35:55

LTE band 4, 1.4MHz Bandwidth, 16QAM (99% BW)

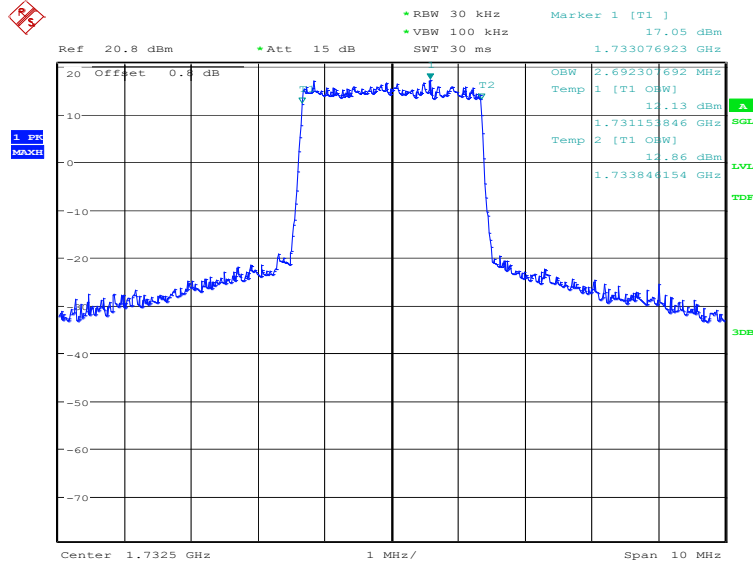


Date: 25.APR.2021 16:36:34

LTE band 4, 3MHz (99%)

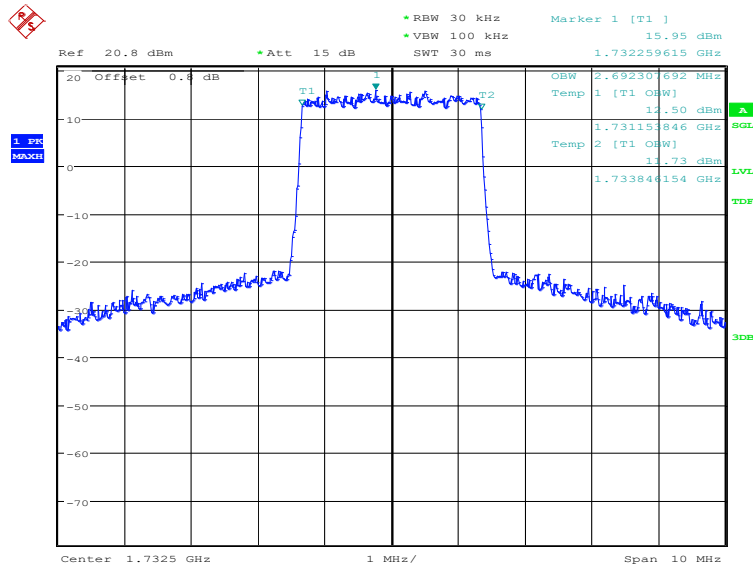
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	2692.31	2692.31

LTE band 4, 3MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:46:10

LTE band 4, 3MHz Bandwidth, 16QAM (99% BW)

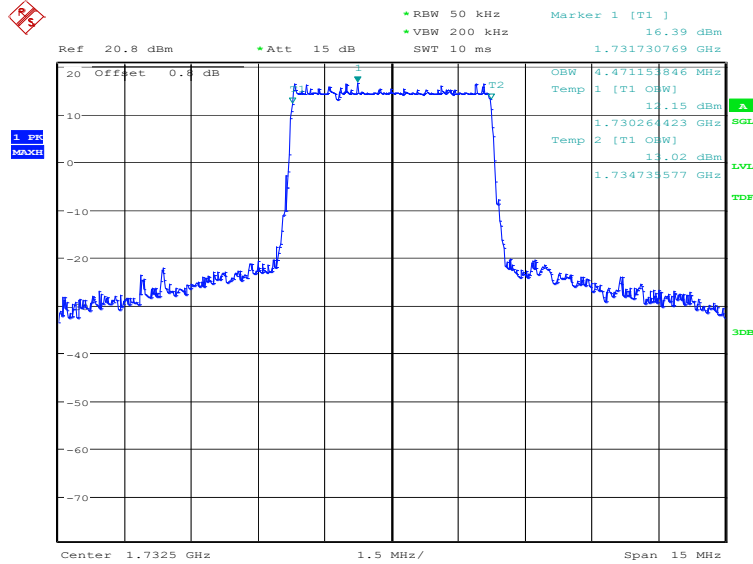


Date: 25.MAR.2021 18:46:50

LTE band 4, 5MHz (99%)

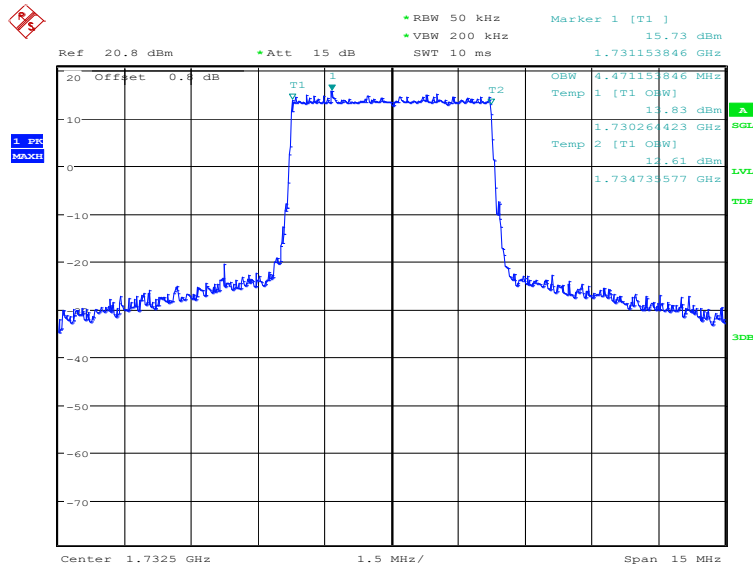
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	4471.15	4471.15

LTE band 4, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:48:19

LTE band 4, 5MHz Bandwidth, 16QAM (99% BW)

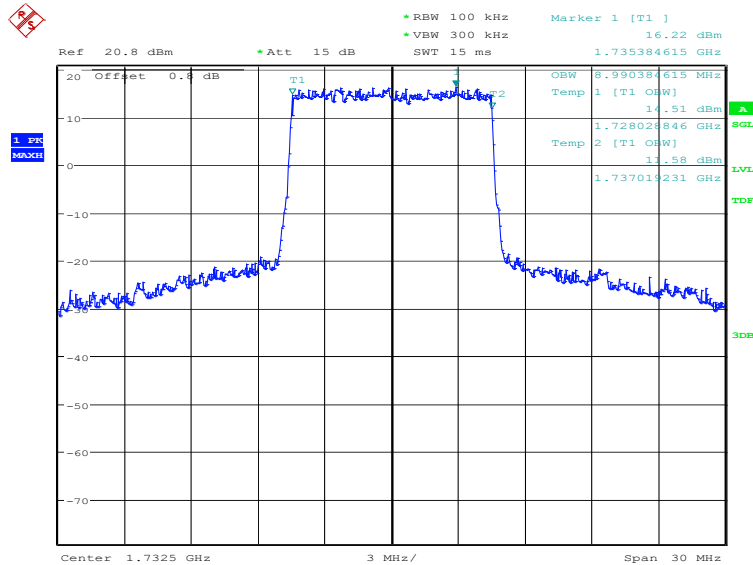


Date: 25.MAR.2021 18:48:58

LTE band 4, 10MHz (99%)

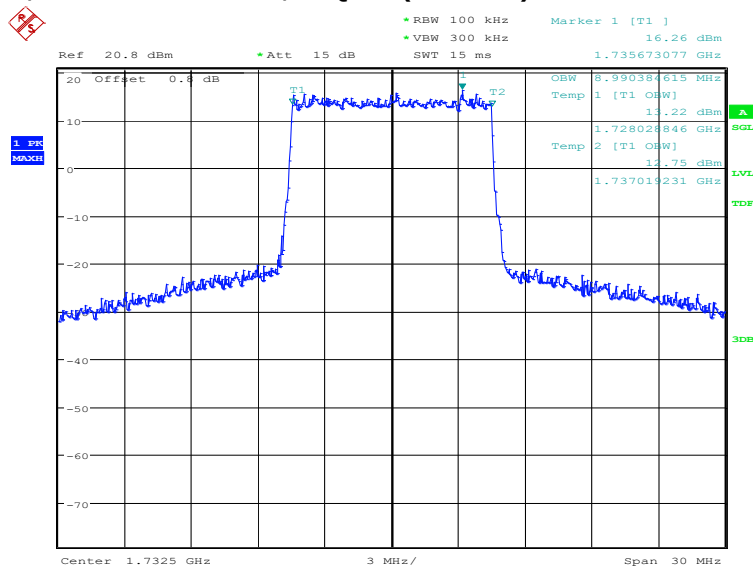
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	8990.38	8990.38

LTE band 4, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.APR.2021 16:37:51

LTE band 4, 10MHz Bandwidth, 16QAM (99% BW)

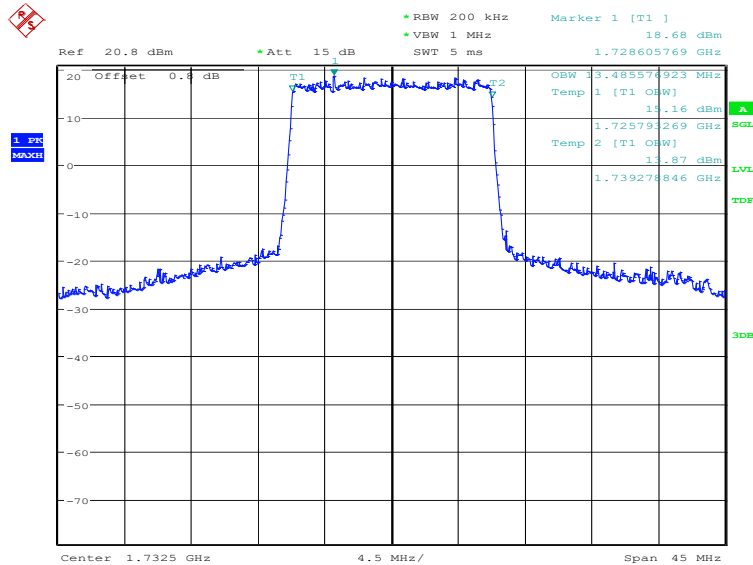


Date: 25.APR.2021 16:38:30

LTE band 4, 15MHz (99%)

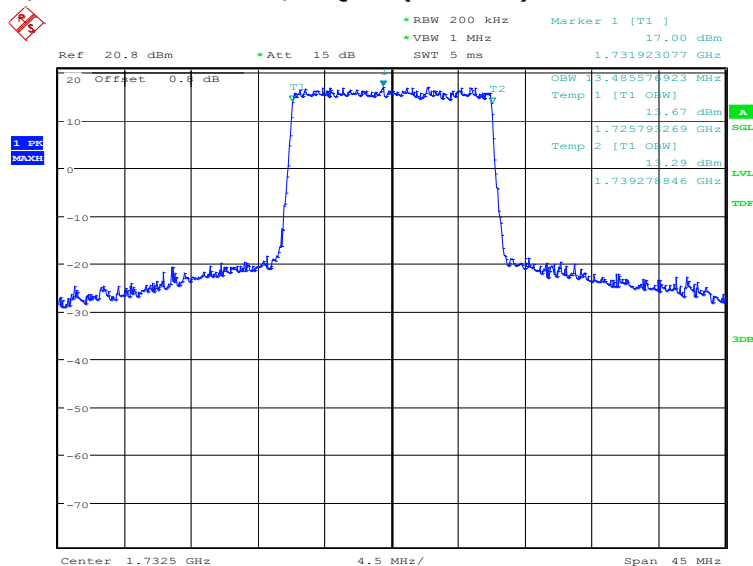
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	13485.58	13485.58

LTE band 4, 15MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:52:36

LTE band 4, 15MHz Bandwidth, 16QAM (99% BW)

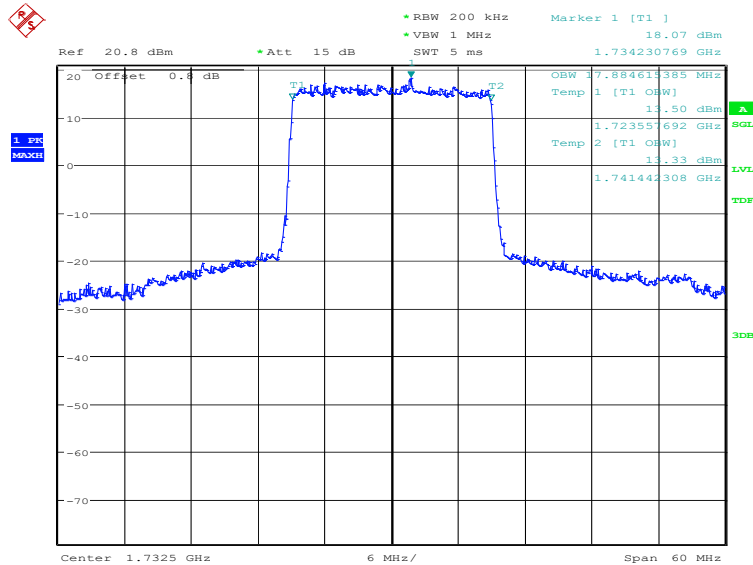


Date: 25.MAR.2021 18:53:15

LTE band 4, 20MHz (99%)

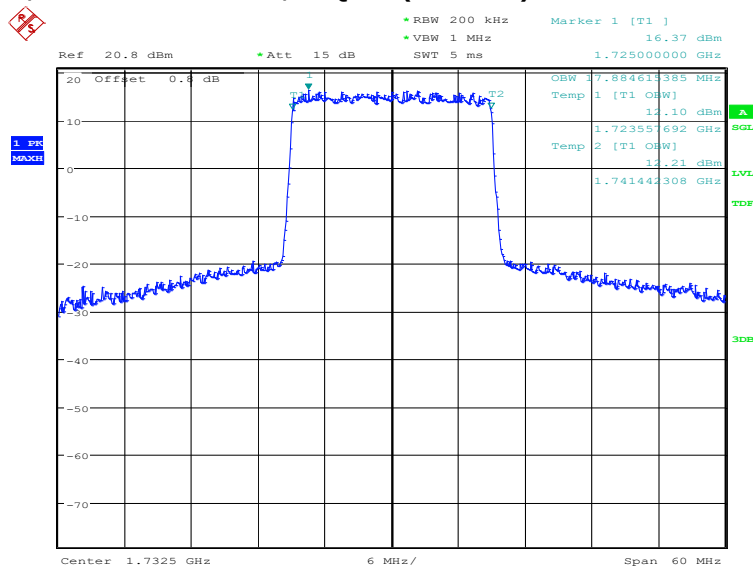
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1732.5	QPSK	16QAM
	17884.62	17884.62

LTE band 4, 20MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:54:44

LTE band 4, 20MHz Bandwidth, 16QAM (99% BW)

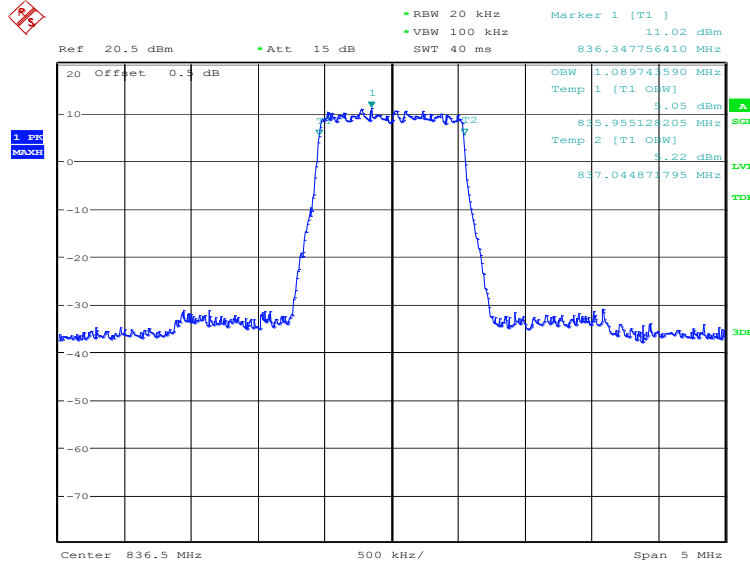


Date: 25.MAR.2021 18:55:24

LTE band 5, 1.4MHz (99%)

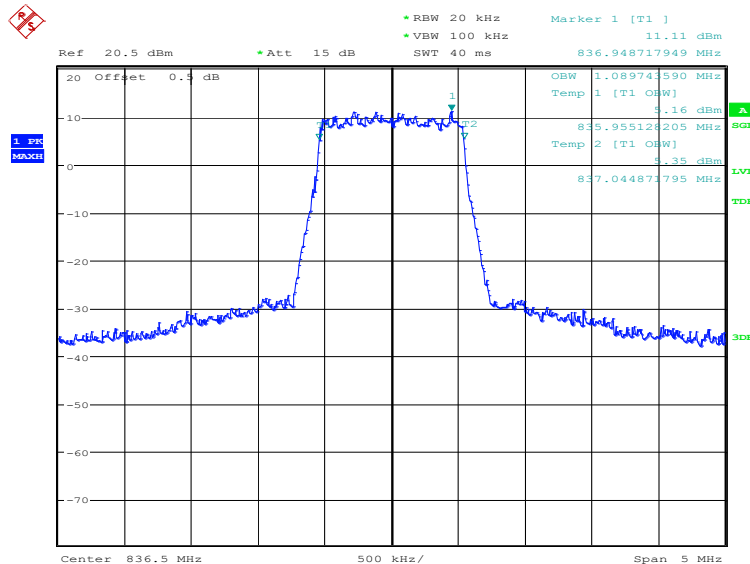
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1089.74	1089.74

LTE band 5, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:56:54

LTE band 5, 1.4MHz Bandwidth, 16QAM (99% BW)

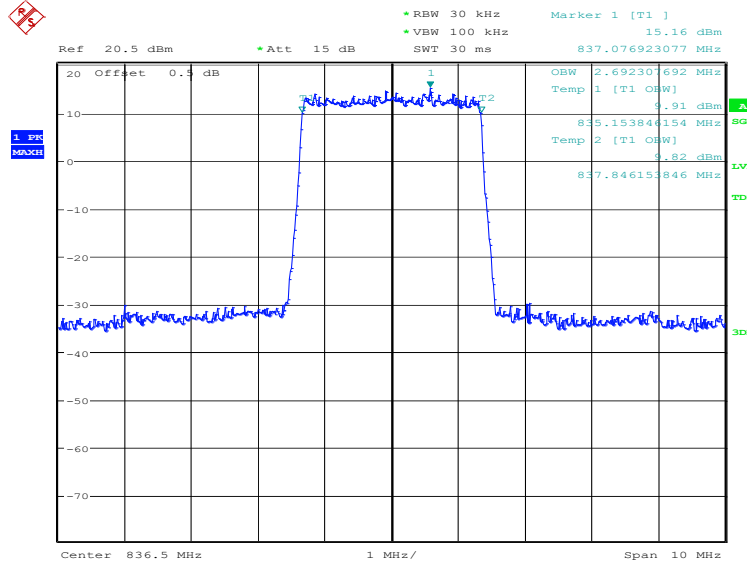


Date: 25.MAR.2021 18:57:34

LTE band 5, 3MHz (99%)

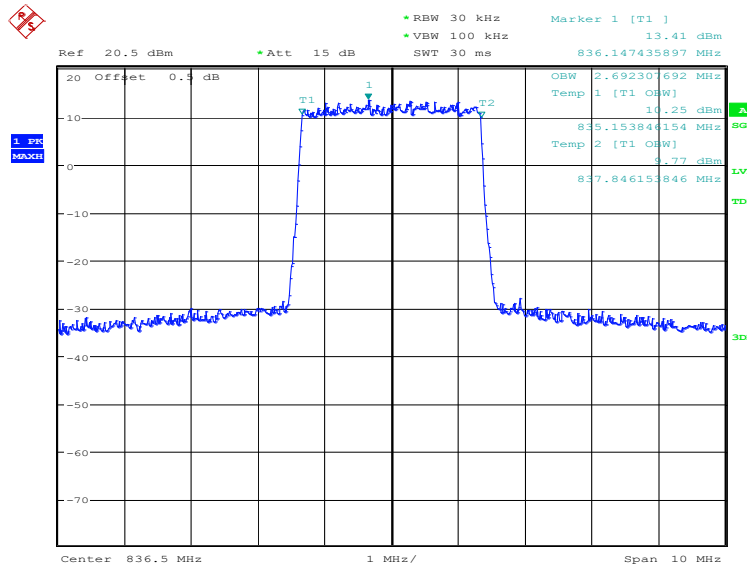
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

LTE band 5, 3MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:59:02

LTE band 5, 3MHz Bandwidth, 16QAM (99% BW)

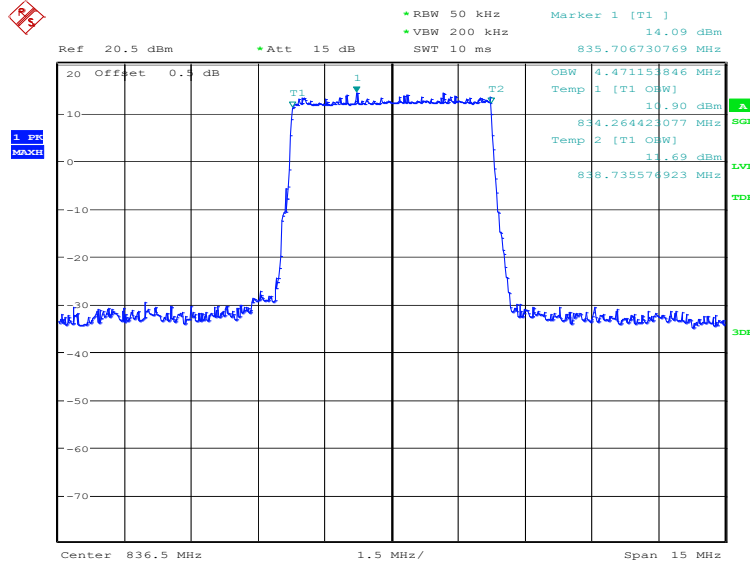


Date: 25.MAR.2021 18:59:42

LTE band 5, 5MHz (99%)

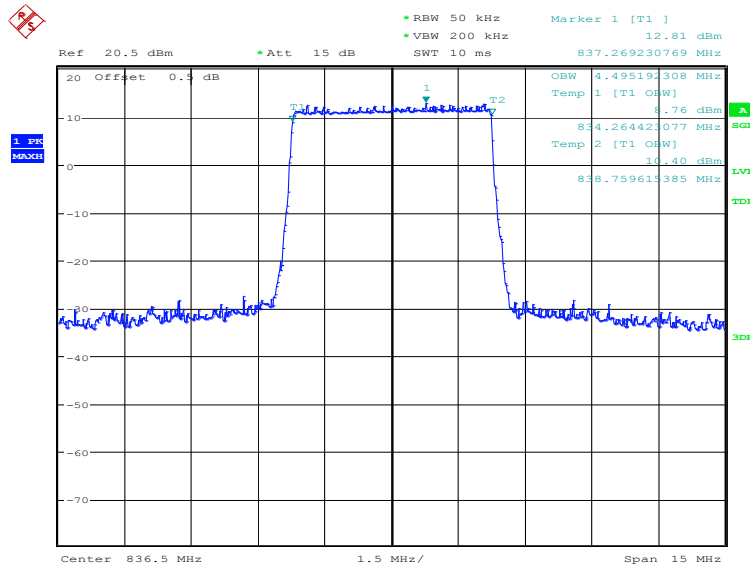
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4471.15	4495.19

LTE band 5, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:01:11

LTE band 5, 5MHz Bandwidth, 16QAM (99% BW)

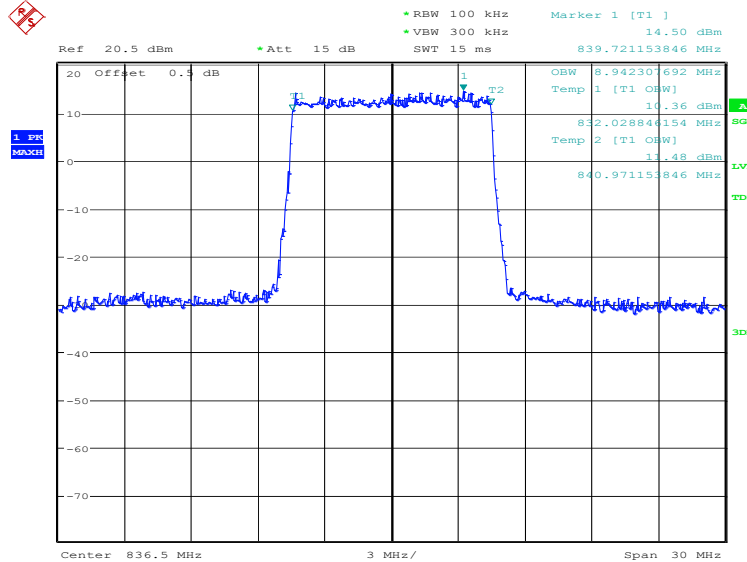


Date: 25.MAR.2021 19:01:51

LTE band 5, 10MHz (99%)

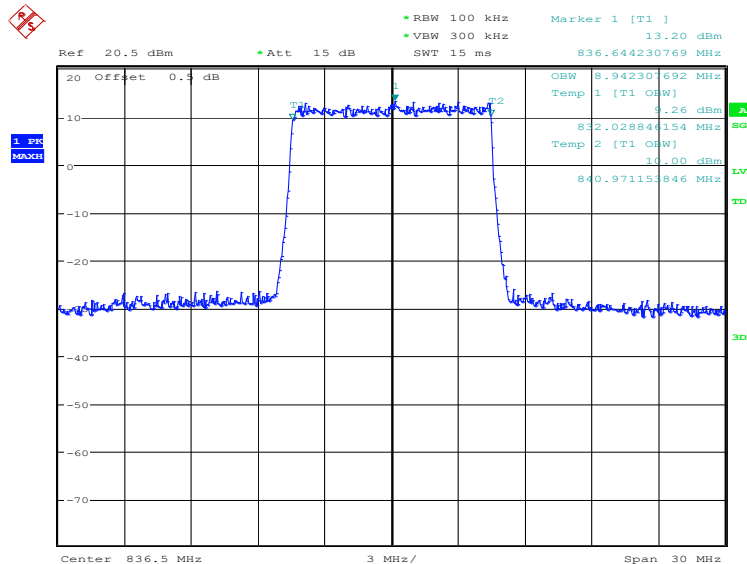
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

LTE band 5, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:03:20

LTE band 5, 10MHz Bandwidth, 16QAM (99% BW)

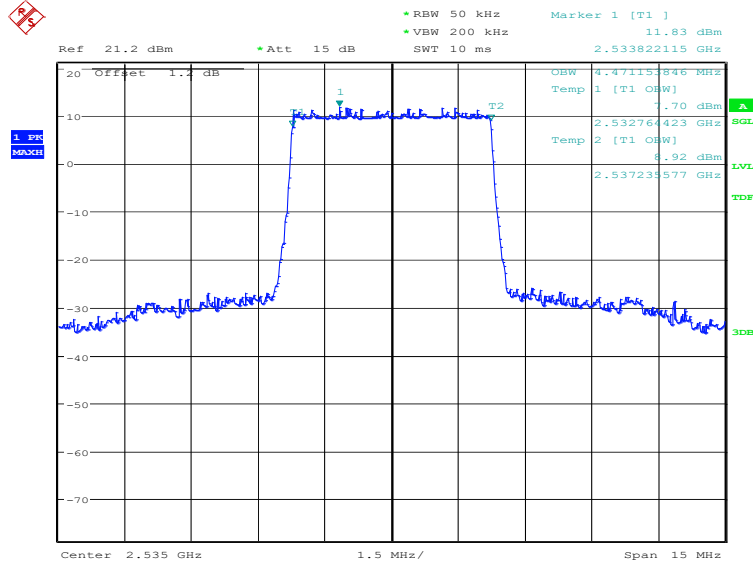


Date: 25.MAR.2021 19:03:59

LTE band 7, 5MHz (99%)

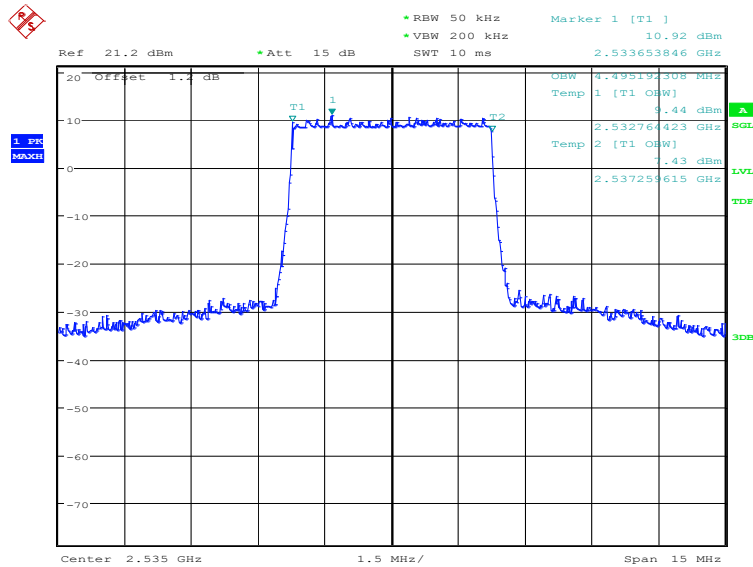
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4471.15	4495.19

LTE band 7, 5MHz Bandwidth, QPSK (99% BW)



Date: 26.MAR.2021 09:17:31

LTE band 7, 5MHz Bandwidth, 16QAM (99% BW)

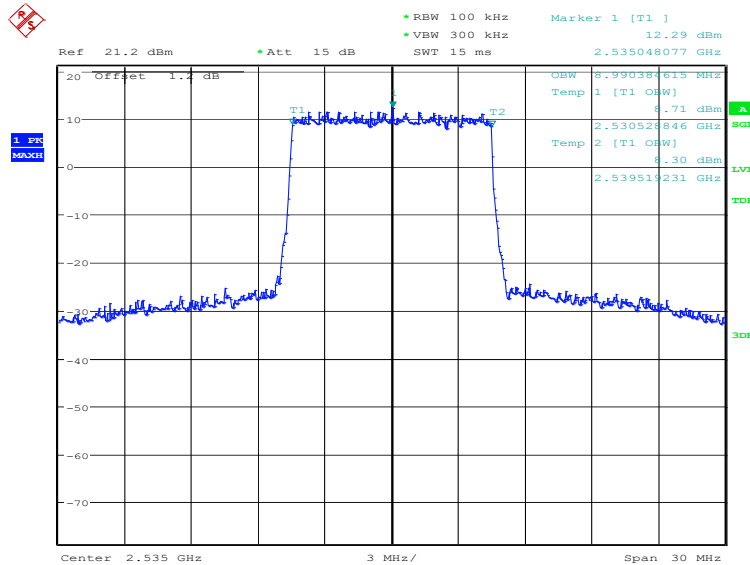


Date: 26.MAR.2021 09:18:10

LTE band 7, 10MHz (99%)

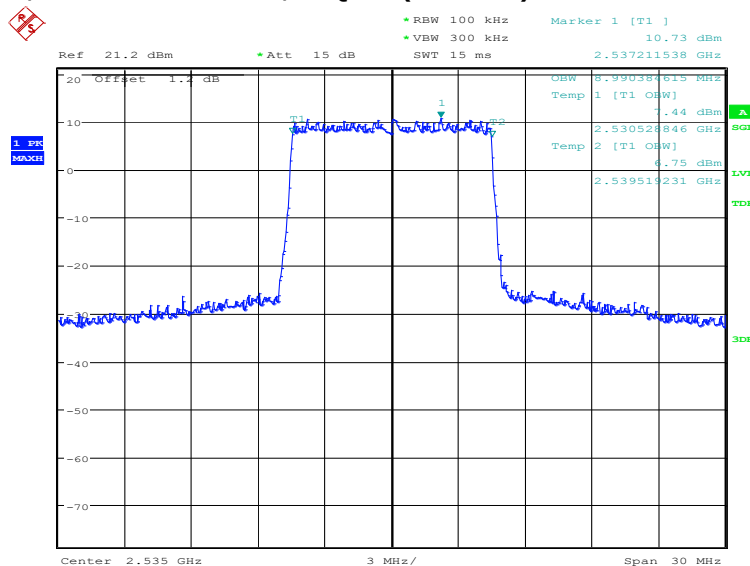
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8990.38	8990.38

LTE band 7, 10MHz Bandwidth, QPSK (99% BW)



Date: 26.MAR.2021 09:40:56

LTE band 7, 10MHz Bandwidth, 16QAM (99% BW)

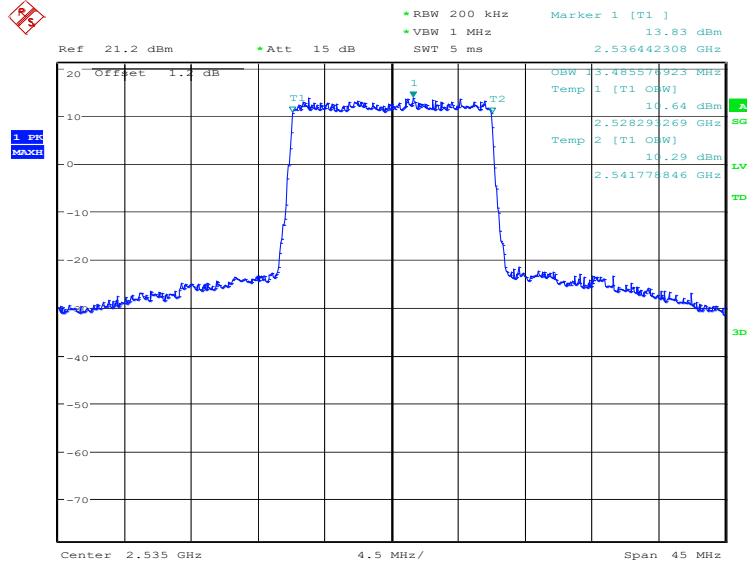


Date: 26.MAR.2021 09:41:35

LTE band 7, 15MHz (99%)

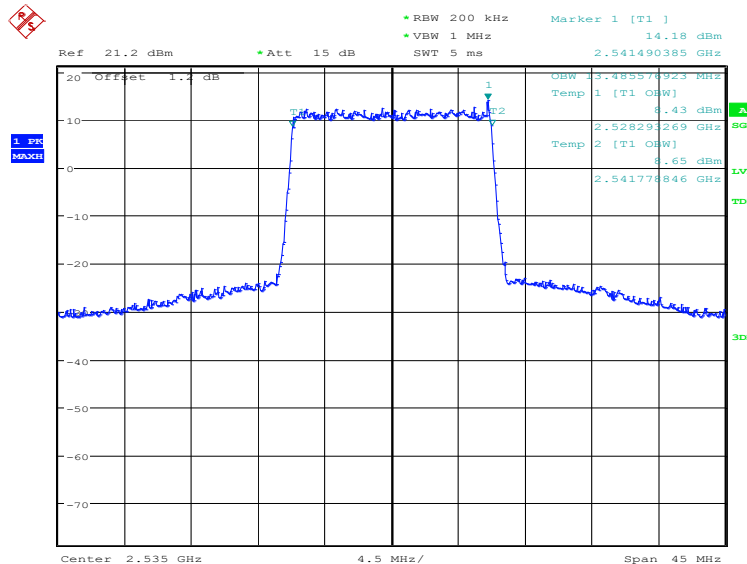
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13485.58

LTE band 7, 15MHz Bandwidth, QPSK (99% BW)



Date: 25.APR.2021 16:31:38

LTE band 7, 15MHz Bandwidth, 16QAM (99% BW)

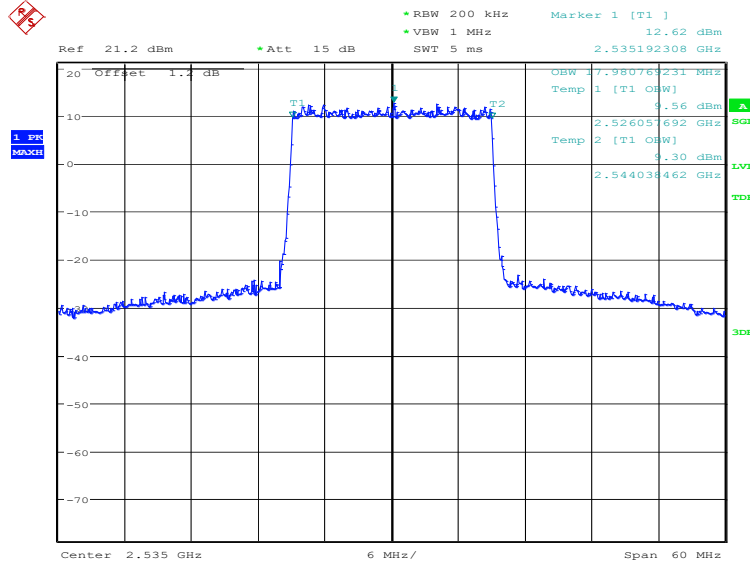


Date: 25.APR.2021 16:32:17

LTE band 7, 20MHz (99%)

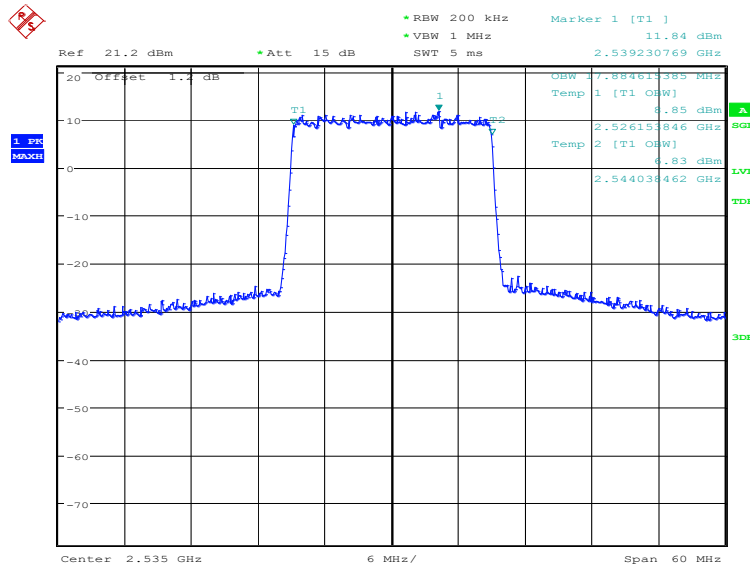
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17980.77	17884.62

LTE band 7, 20MHz Bandwidth, QPSK (99% BW)



Date: 26.MAR.2021 09:43:03

LTE band 7, 20MHz Bandwidth, 16QAM (99% BW)

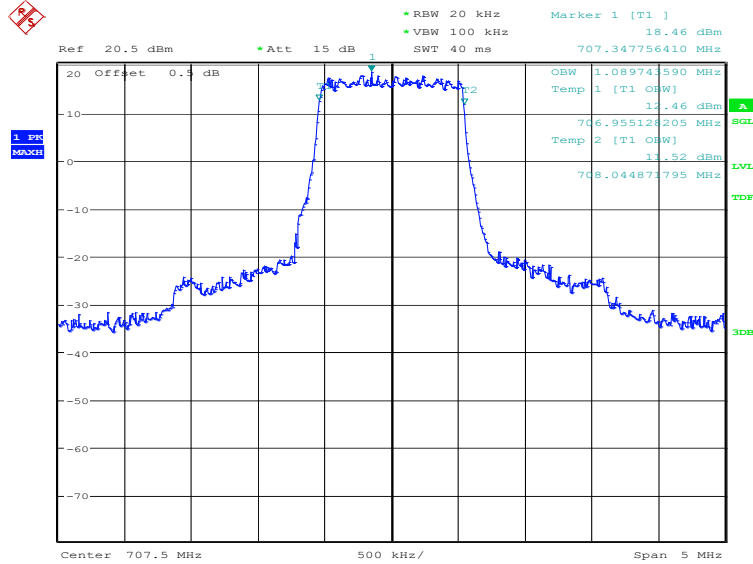


Date: 26.MAR.2021 09:43:42

LTE band 12, 1.4MHz (99%)

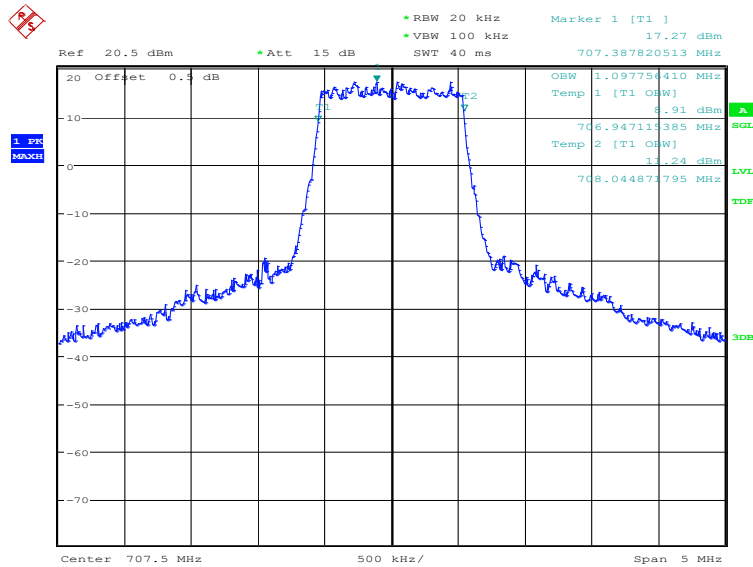
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1089.74	1097.76

LTE band 12, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:14:05

LTE band 12, 1.4MHz Bandwidth, 16QAM (99% BW)

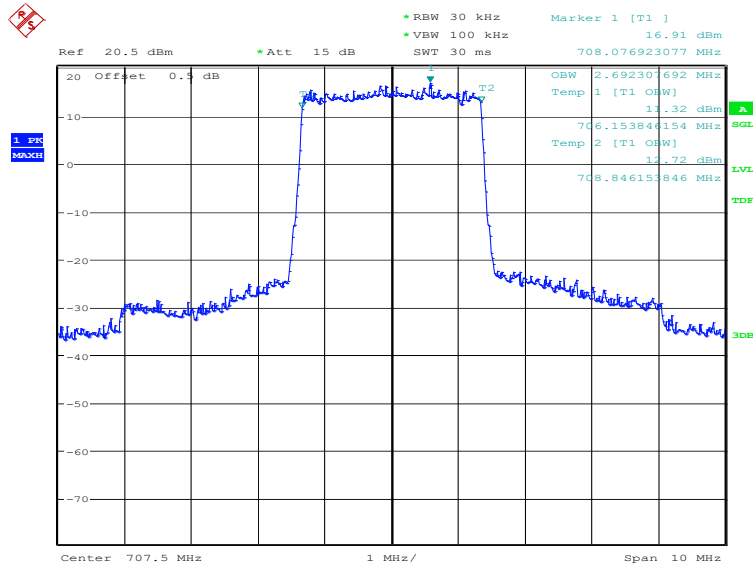


Date: 25.MAR.2021 19:14:44

LTE band 12, 3MHz (99%)

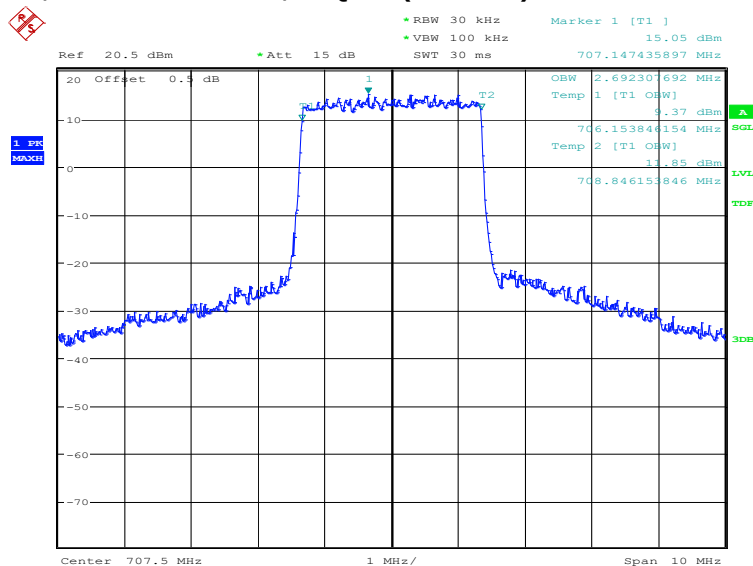
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2692.31

LTE band 12, 3MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:16:13

LTE band 12, 3MHz Bandwidth, 16QAM (99% BW)

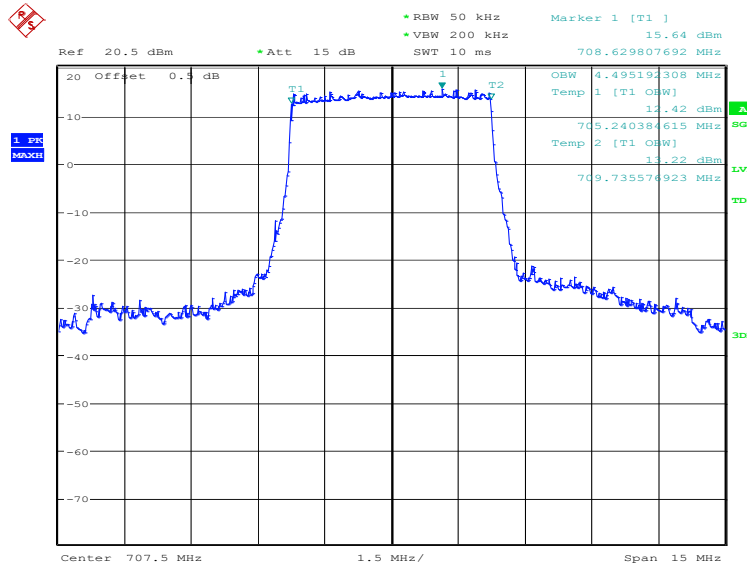


Date: 25.MAR.2021 19:16:53

LTE band 12, 5MHz (99%)

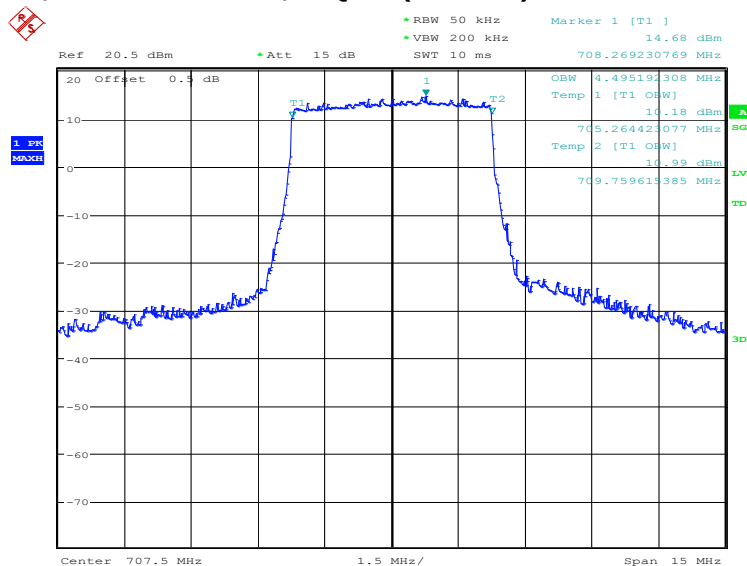
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4495.19	4495.19

LTE band 12, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:18:22

LTE band 12, 5MHz Bandwidth, 16QAM (99% BW)

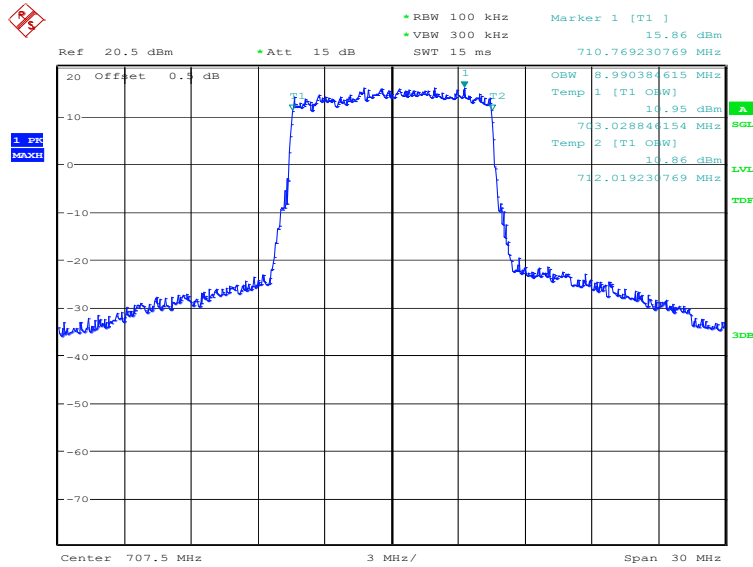


Date: 25.MAR.2021 19:19:02

LTE band 12, 10MHz (99%)

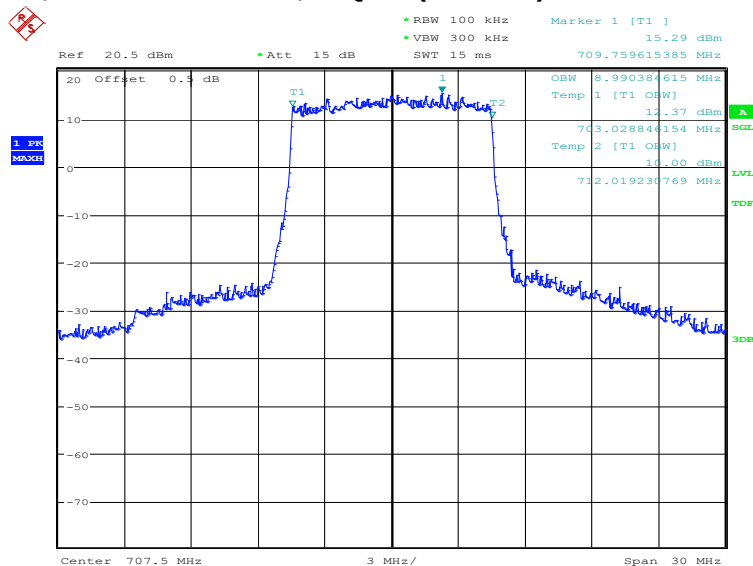
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8990.38	8990.38

LTE band 12, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:20:31

LTE band 12, 10MHz Bandwidth, 16QAM (99% BW)

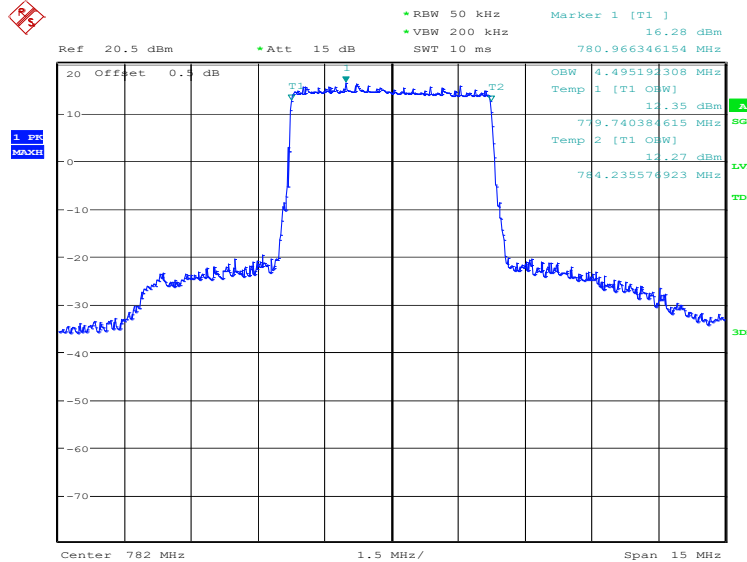


Date: 25.MAR.2021 19:21:10

LTE band 13, 5MHz (99%)

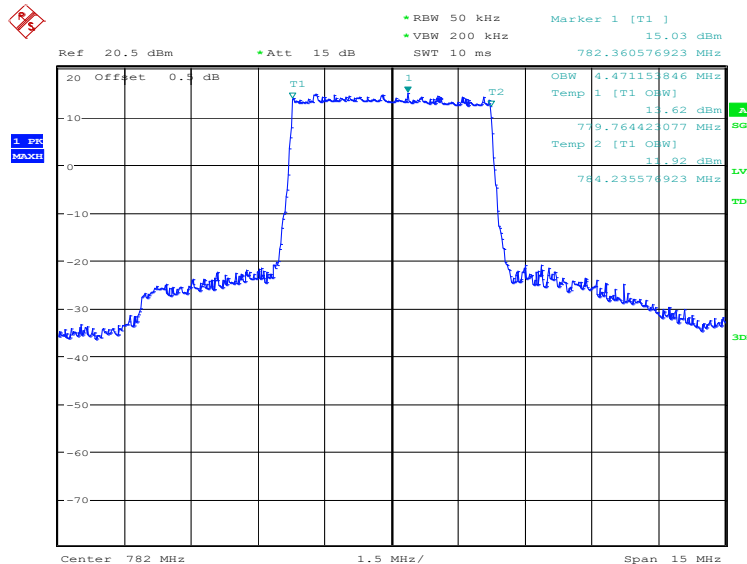
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	4495.19	4471.15

LTE band 13, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:22:41

LTE band 13, 5MHz Bandwidth,16QAM (99% BW)

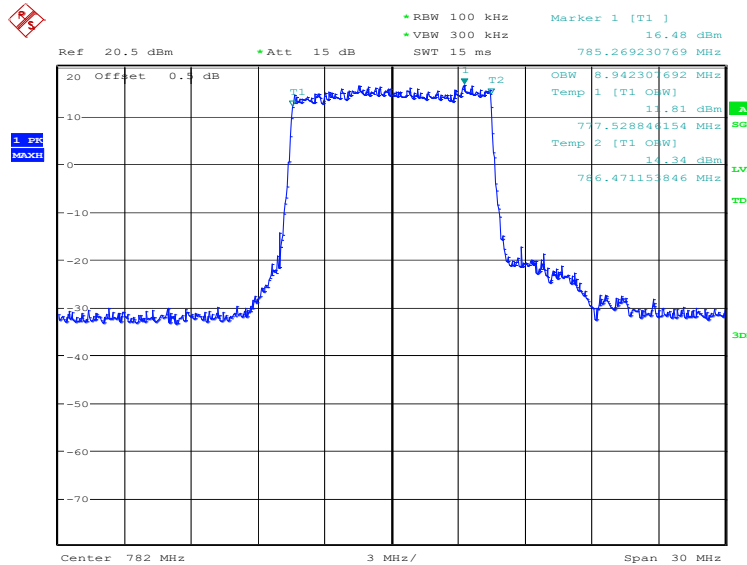


Date: 25.MAR.2021 19:23:20

LTE band 13, 10MHz (99%)

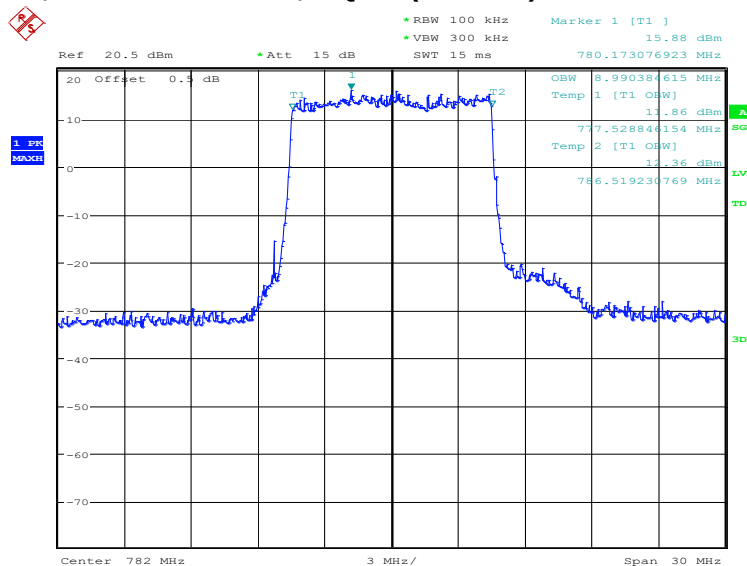
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8942.31	8990.38

LTE band 13, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:24:49

LTE band 13, 10MHz Bandwidth, 16QAM (99% BW)

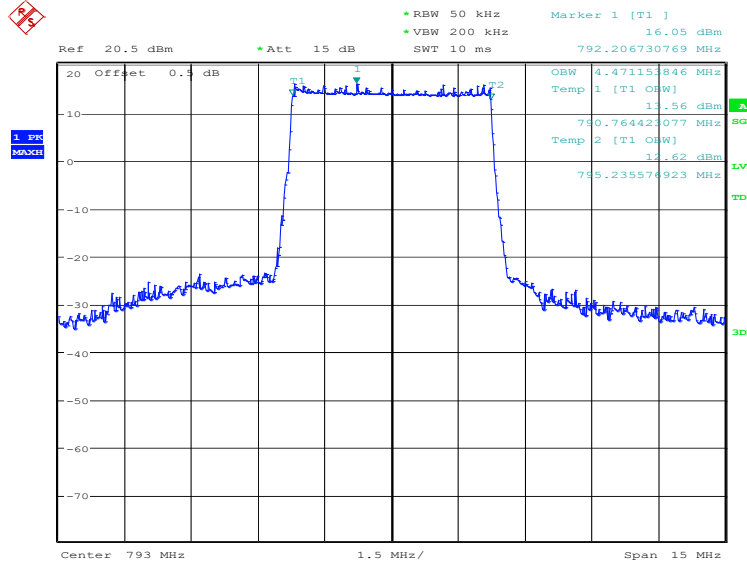


Date: 25.MAR.2021 19:25:29

LTE band 14, 5MHz (99%)

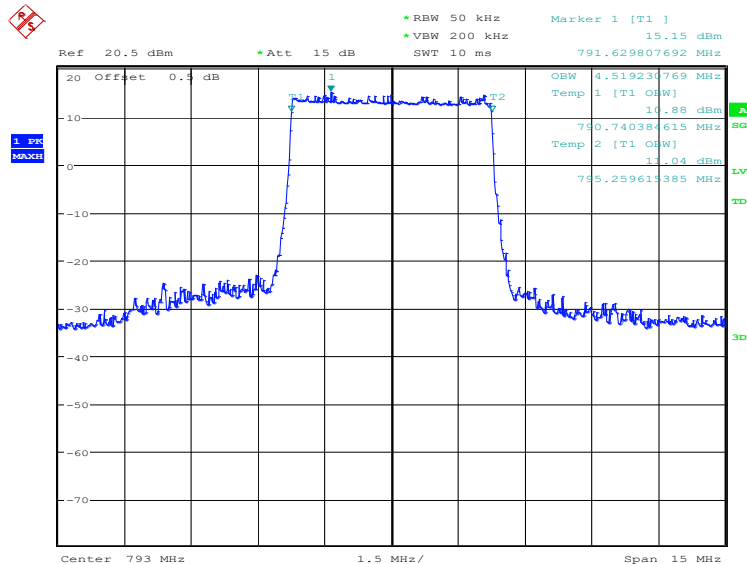
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
793.0	QPSK	16QAM
	4471.15	4519.23

LTE band 14, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:26:59

LTE band 14, 5MHz Bandwidth, 16QAM (99% BW)

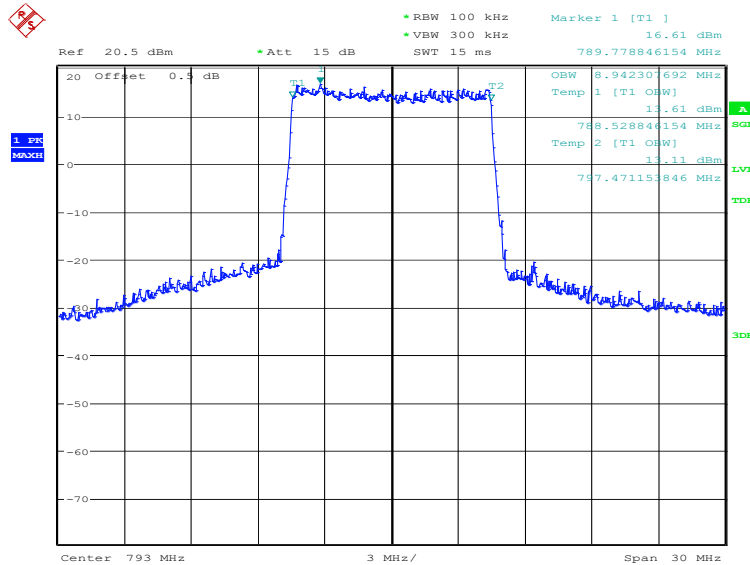


Date: 25.MAR.2021 19:27:39

LTE band 14, 10MHz (99%)

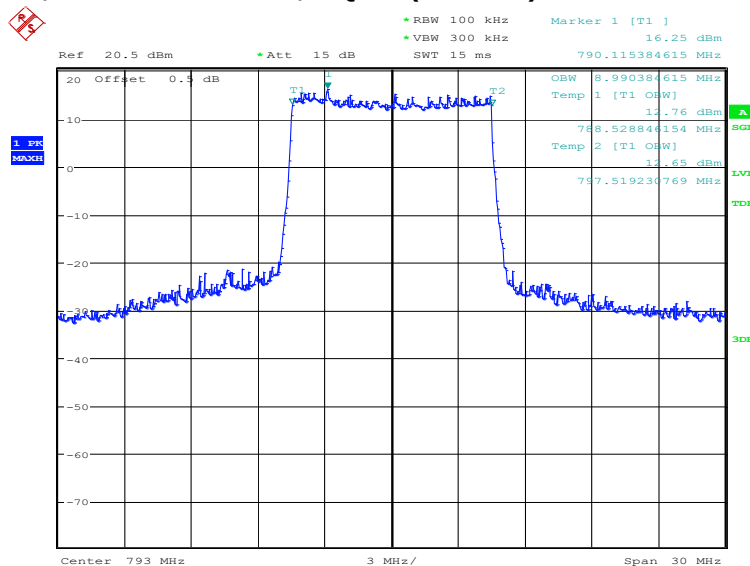
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
793.0	QPSK	16QAM
	8942.31	8990.38

LTE band 14, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:29:08

LTE band 14, 10MHz Bandwidth,16QAM (99% BW)

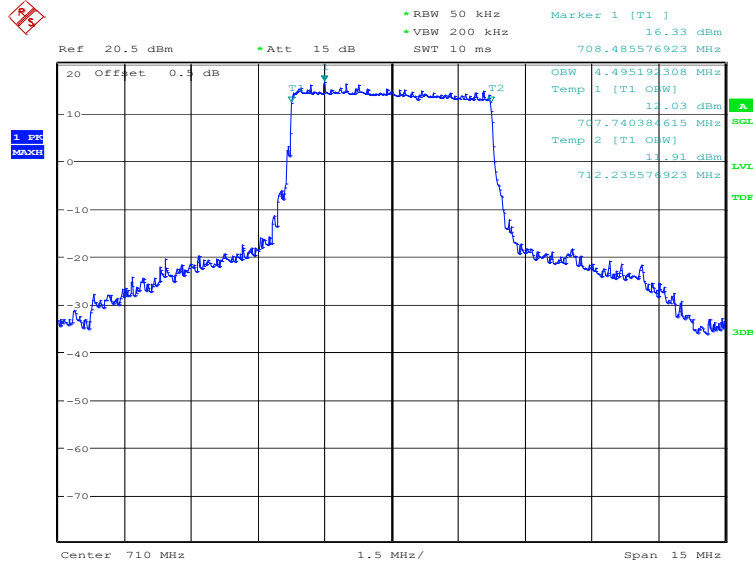


Date: 25.MAR.2021 19:29:48

LTE band 17, 5MHz(99% BW)

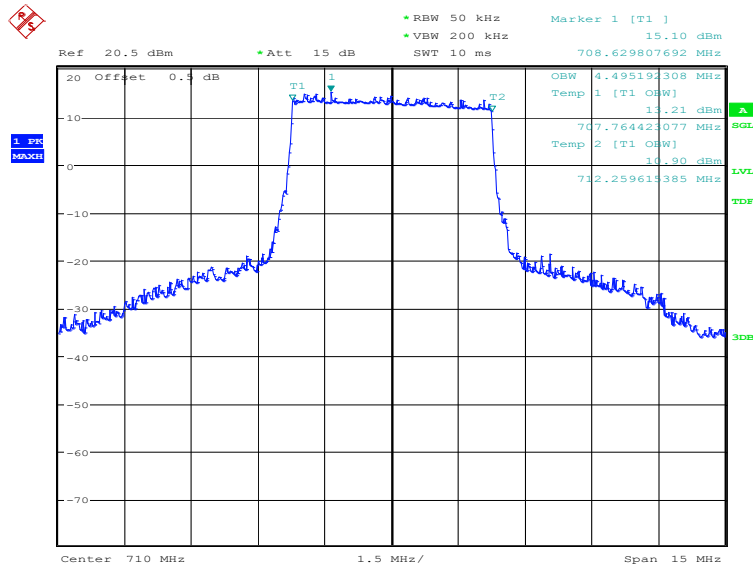
Frequency(MHz)	Occupied Bandwidth (99% BW) (kHz)	
710.0	QPSK	16QAM
	4495.19	4495.19

LTE band 17, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:31:18

LTE band 17, 5MHz Bandwidth,16QAM (99% BW)

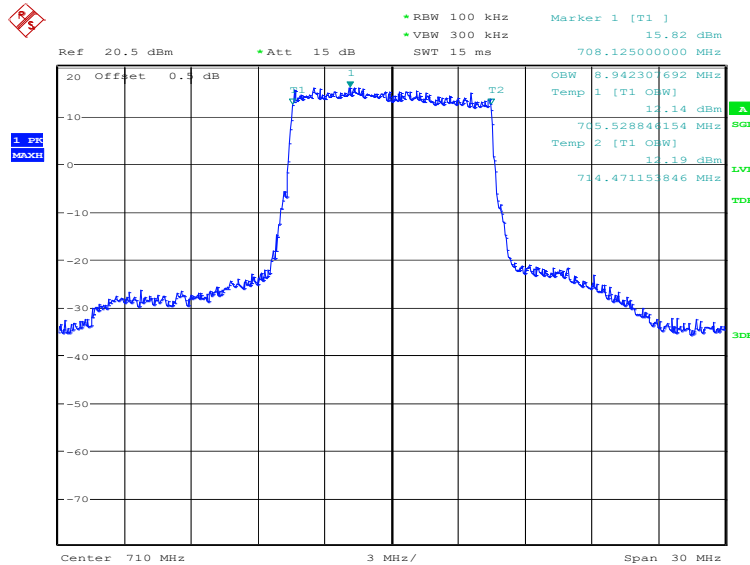


Date: 25.MAR.2021 19:31:58

LTE band 17, 10MHz(99% BW)

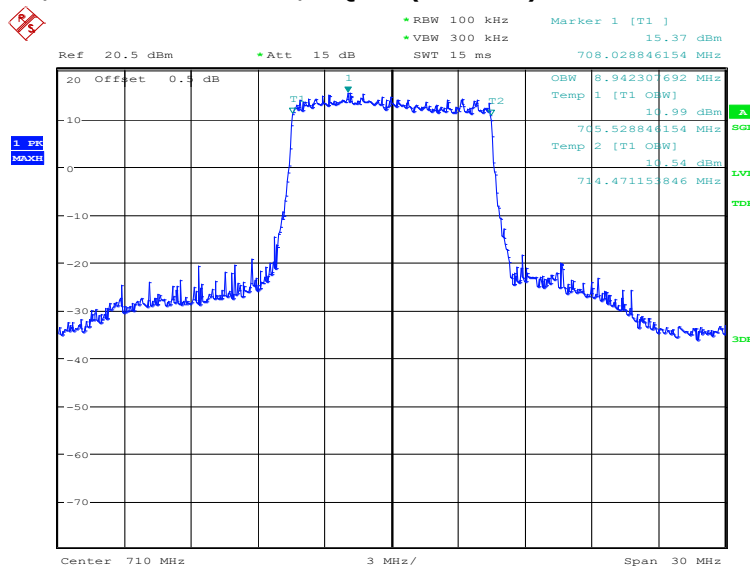
Frequency(MHz)	Occupied Bandwidth (99% BW) (kHz)	
710.0	QPSK	16QAM
	8942.31	8942.31

LTE band 17, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:33:27

LTE band 17, 10MHz Bandwidth,16QAM (99% BW)

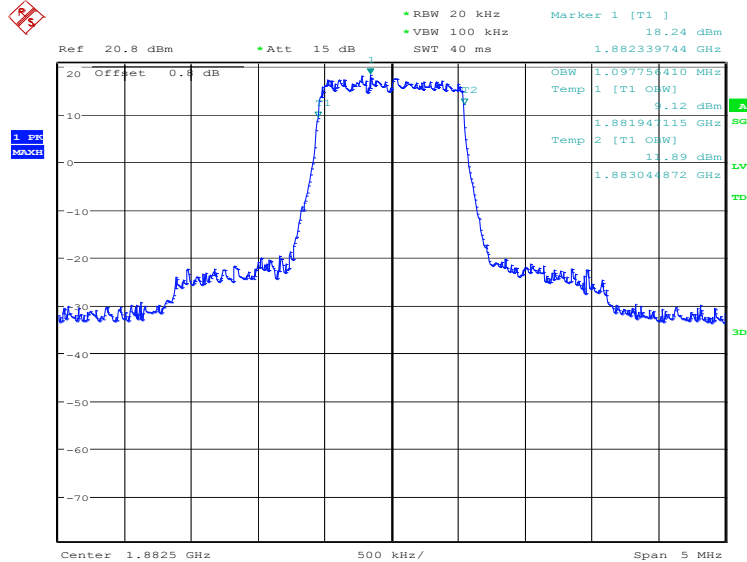


Date: 25.MAR.2021 19:34:07

LTE band 25, 1.4MHz (99%)

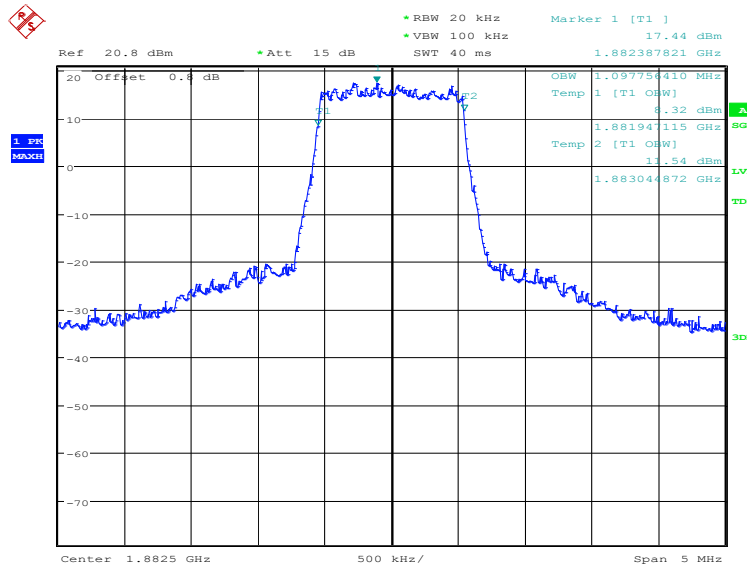
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	1097.76	1097.76

LTE band 25, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:35:37

LTE band 25, 1.4MHz Bandwidth, 16QAM (99% BW)

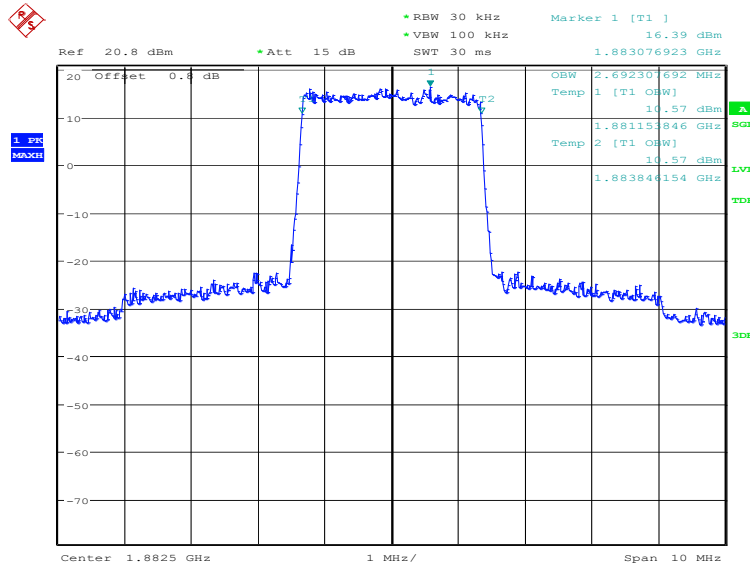


Date: 25.MAR.2021 19:36:17

LTE band 25, 3MHz (99%)

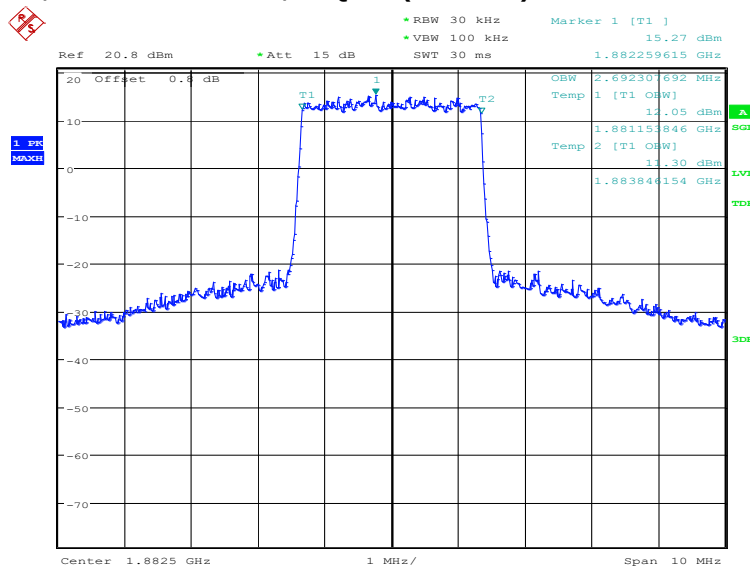
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	2692.31	2692.31

LTE band 25, 3MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:37:46

LTE band 25, 3MHz Bandwidth, 16QAM (99% BW)

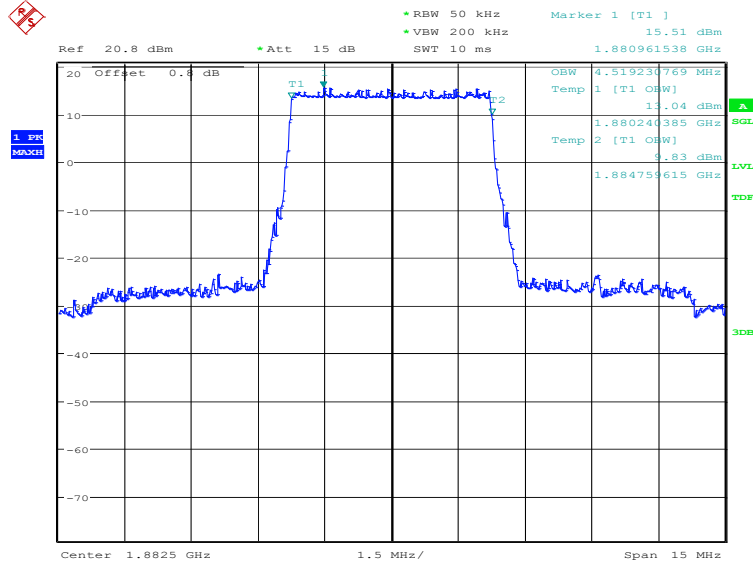


Date: 25.MAR.2021 19:38:26

LTE band 25, 5MHz (99%)

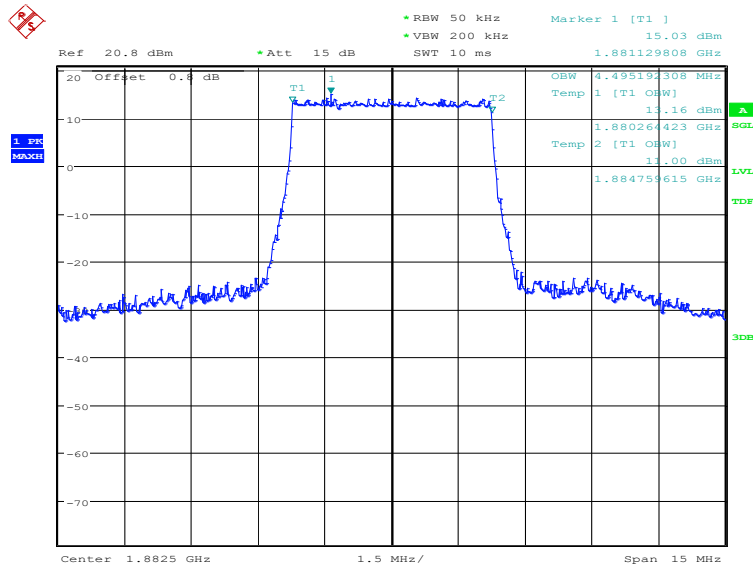
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	4519.23	4495.19

LTE band 25, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:39:55

LTE band 25, 5MHz Bandwidth, 16QAM (99% BW)

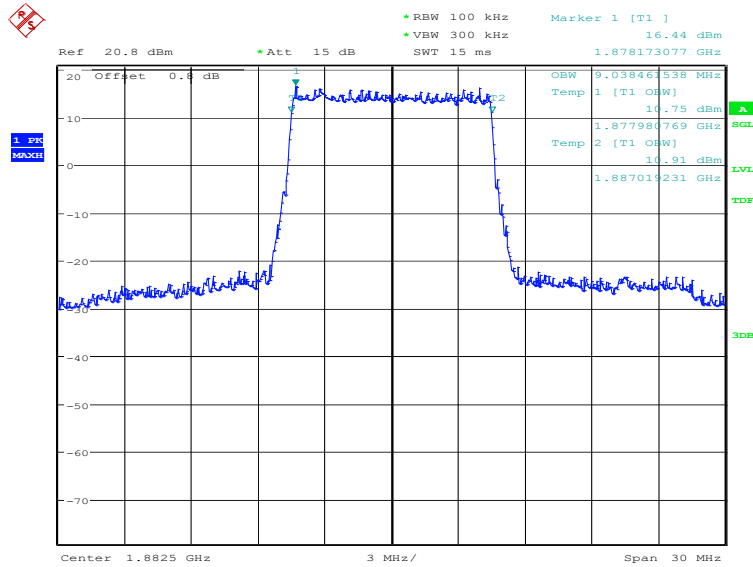


Date: 25.MAR.2021 19:40:35

LTE band 25, 10MHz (99%)

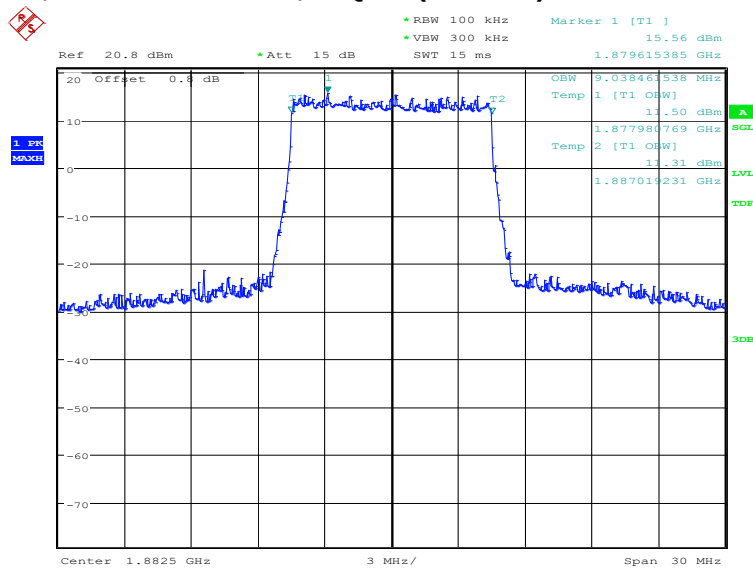
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	9038.46	9038.46

LTE band 25, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:42:04

LTE band 25, 10MHz Bandwidth, 16QAM (99% BW)

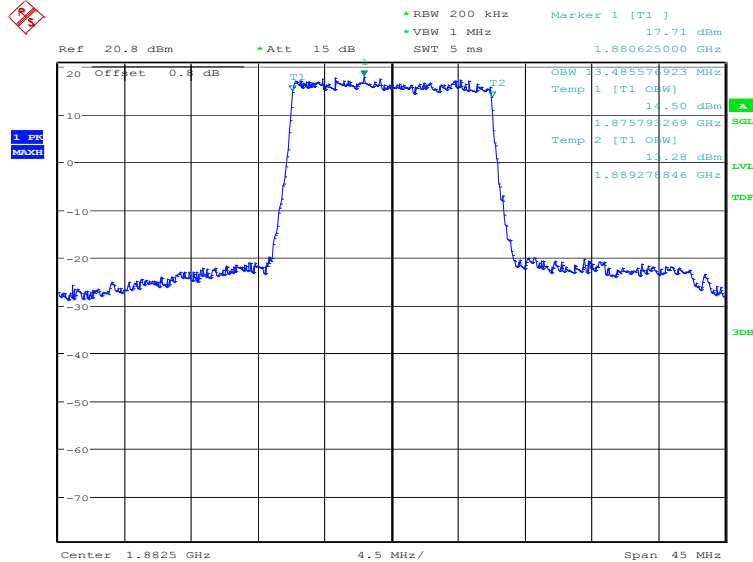


Date: 25.MAR.2021 19:42:43

LTE band 25, 15MHz (99%)

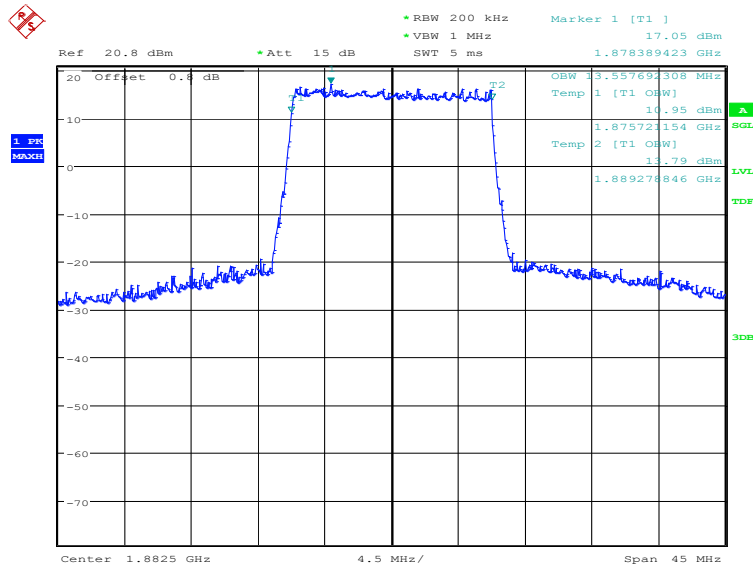
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	13485.58	13557.69

LTE band 25, 15MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:44:13

LTE band 25, 15MHz Bandwidth, 16QAM (99% BW)

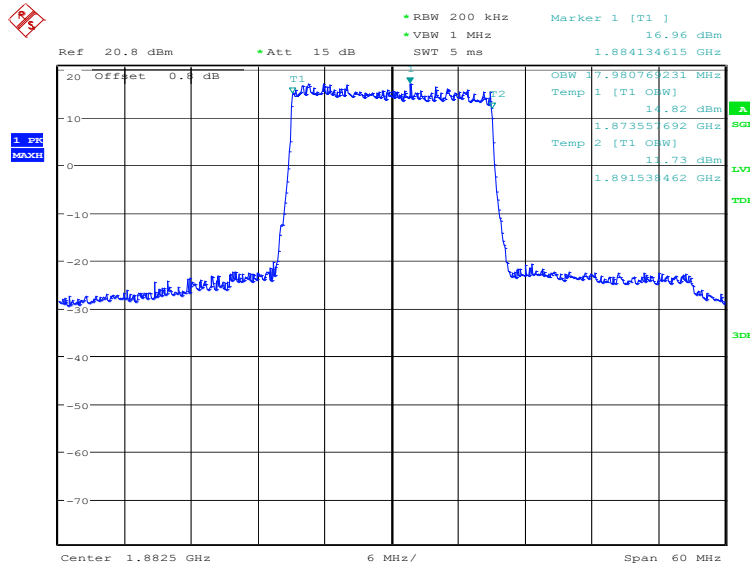


Date: 25.MAR.2021 19:44:52

LTE band 25, 20MHz (99%)

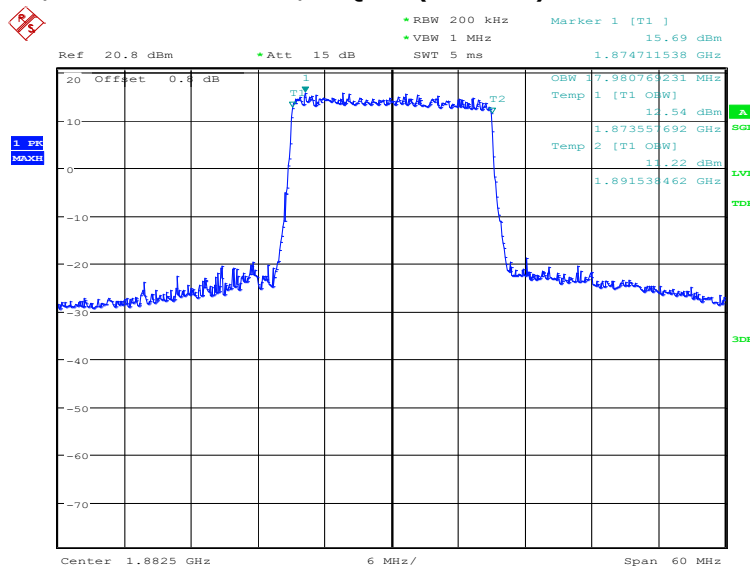
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1882.5	QPSK	16QAM
	17980.77	17980.77

LTE band 25, 20MHz Bandwidth, QPSK (99% BW)



Date: 25.APR.2021 16:42:33

LTE band 25, 20MHz Bandwidth, 16QAM (99% BW)

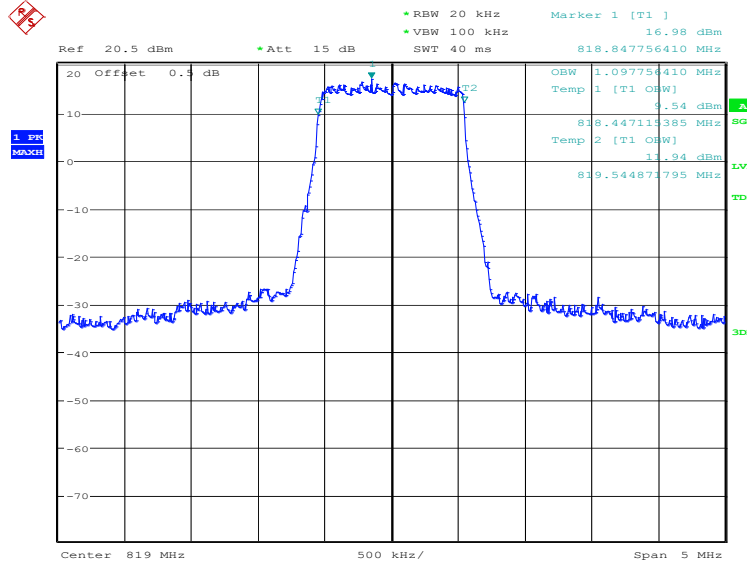


Date: 25.APR.2021 16:43:13

LTE band 26(814MHz~824MHz), 1.4MHz (99%)

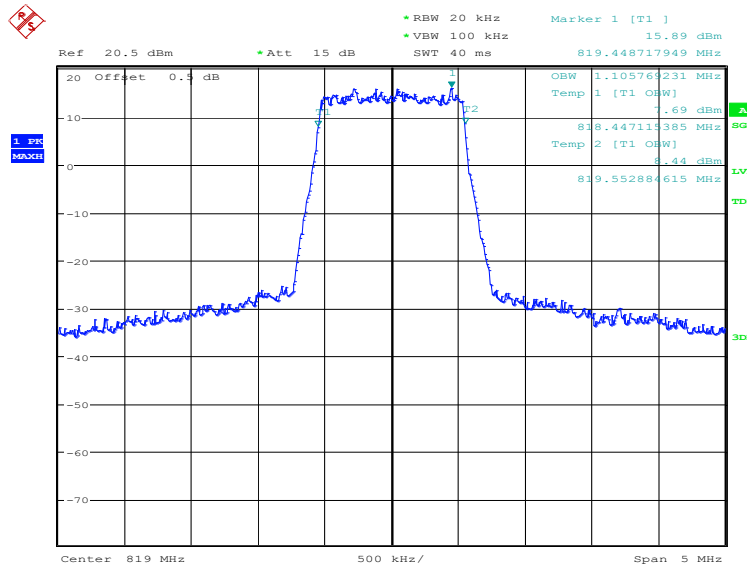
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1097.76	1105.77

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:58:28

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 16QAM (99% BW)

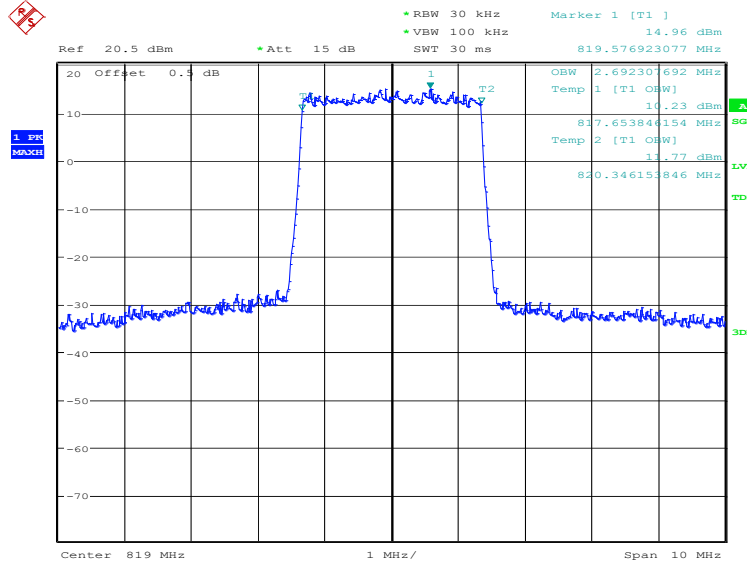


Date: 25.MAR.2021 19:59:08

LTE band 26(814MHz~824MHz), 3MHz (99%)

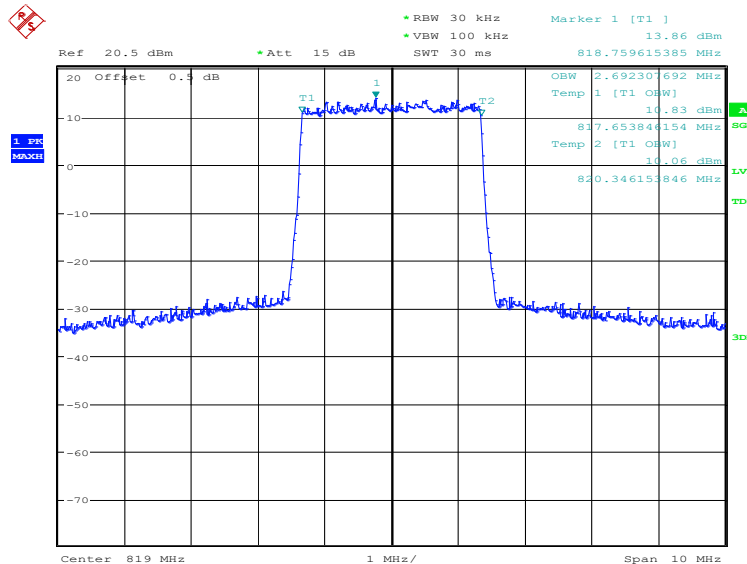
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2692.31

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:00:38

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 16QAM (99% BW)

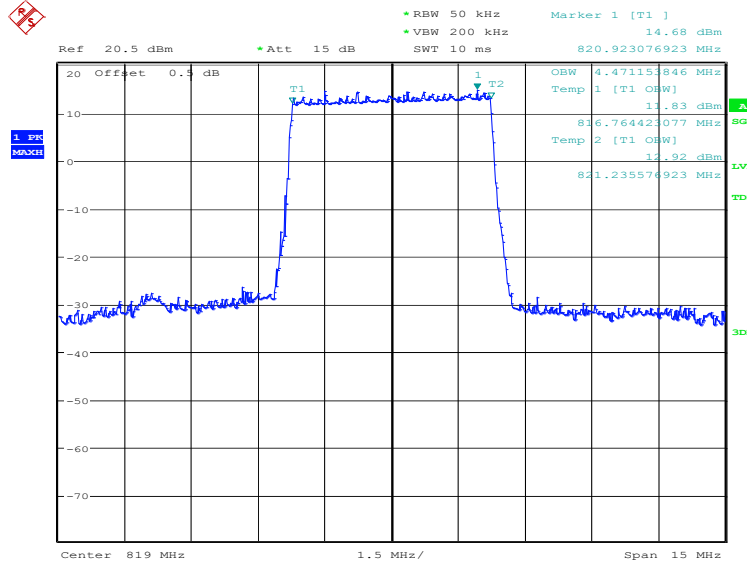


Date: 25.MAR.2021 20:01:17

LTE band 26(814MHz~824MHz), 5MHz (99%)

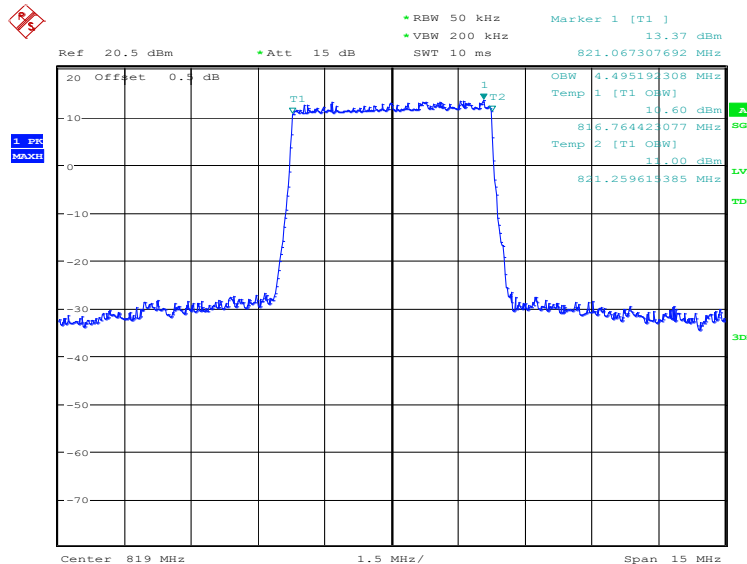
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4471.15	4495.19

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:02:47

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (99% BW)

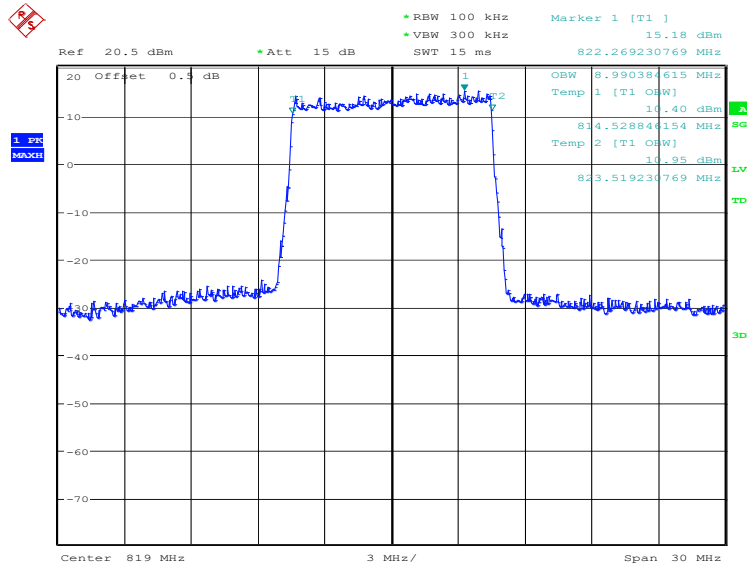


Date: 25.MAR.2021 20:03:26

LTE band 26(814MHz~824MHz), 10MHz (99%)

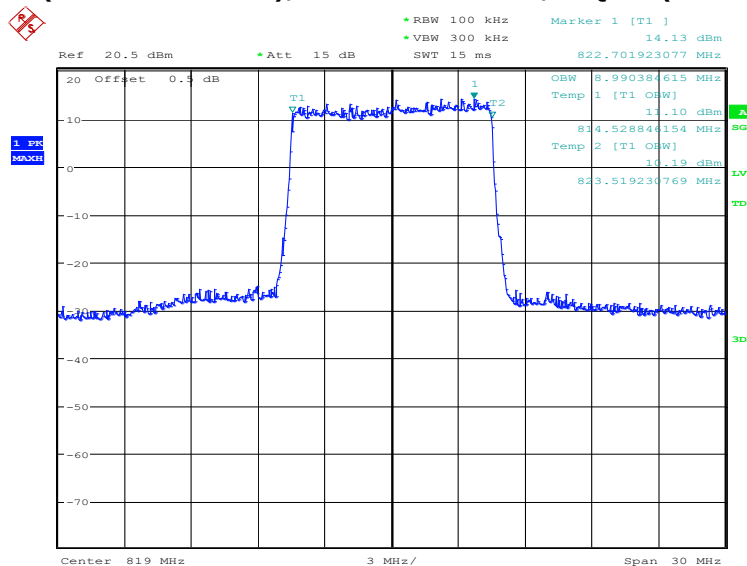
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	8990.38	8990.38

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:04:56

LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (99% BW)

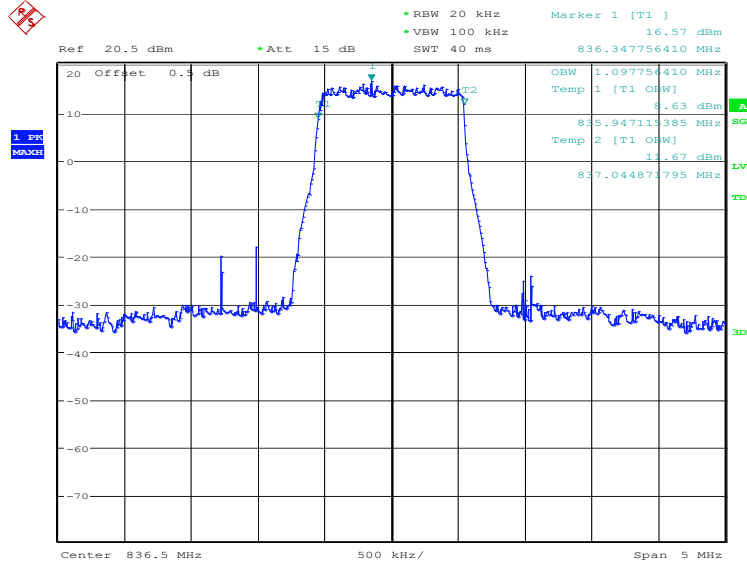


Date: 25.MAR.2021 20:05:36

LTE band 26(824MHz~849MHz), 1.4MHz (99%)

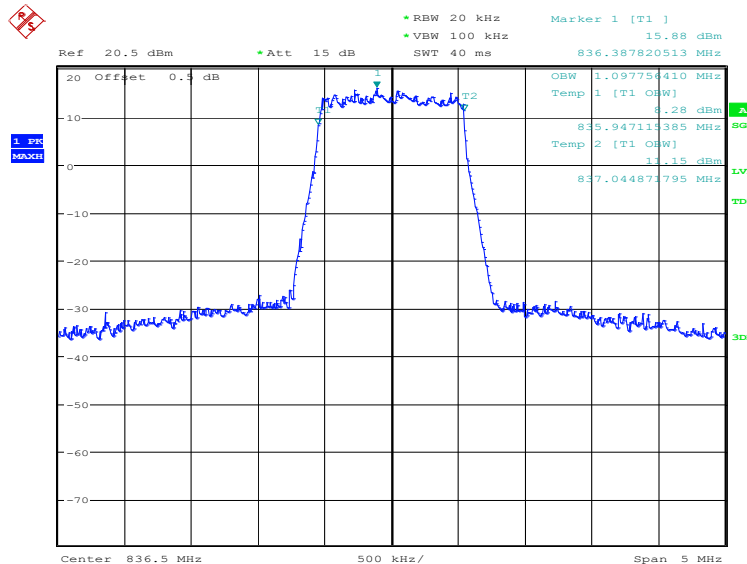
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1097.76	1097.76

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:47:53

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 16QAM (99% BW)

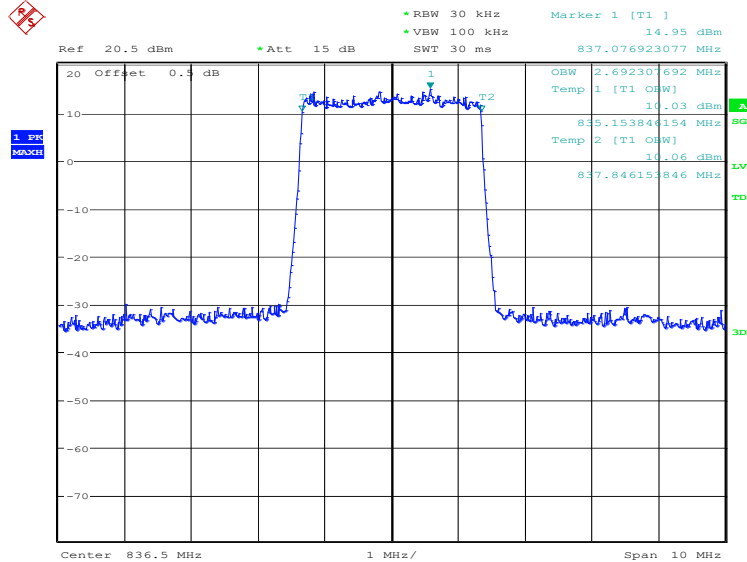


Date: 25.MAR.2021 19:48:33

LTE band 26(824MHz~849MHz), 3MHz (99%)

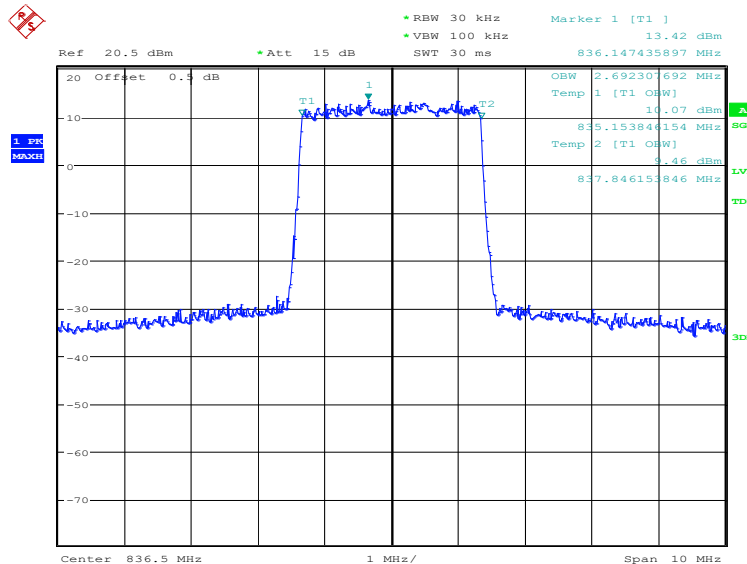
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:50:02

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 16QAM (99% BW)

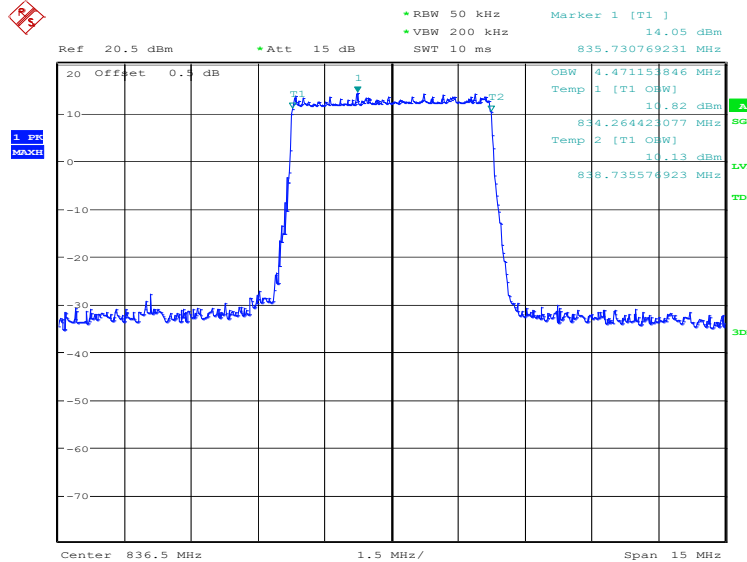


Date: 25.MAR.2021 19:50:42

LTE band 26(824MHz~849MHz), 5MHz (99%)

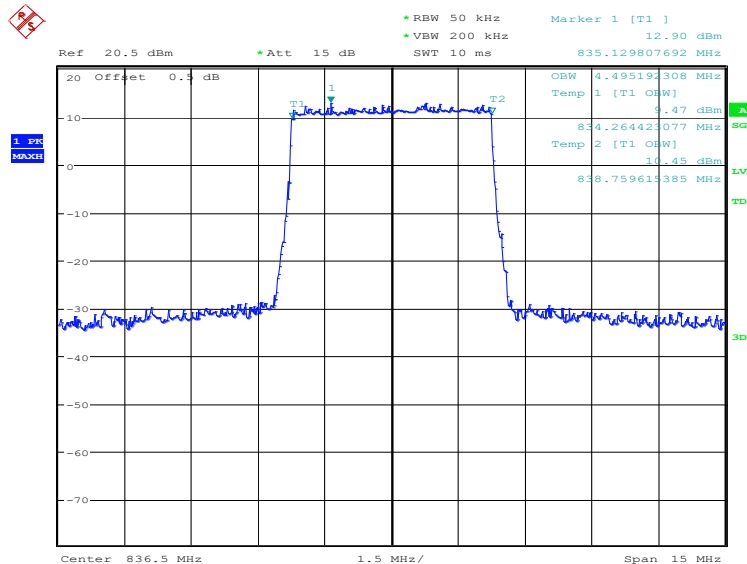
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4471.15	4495.19

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:52:11

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (99% BW)

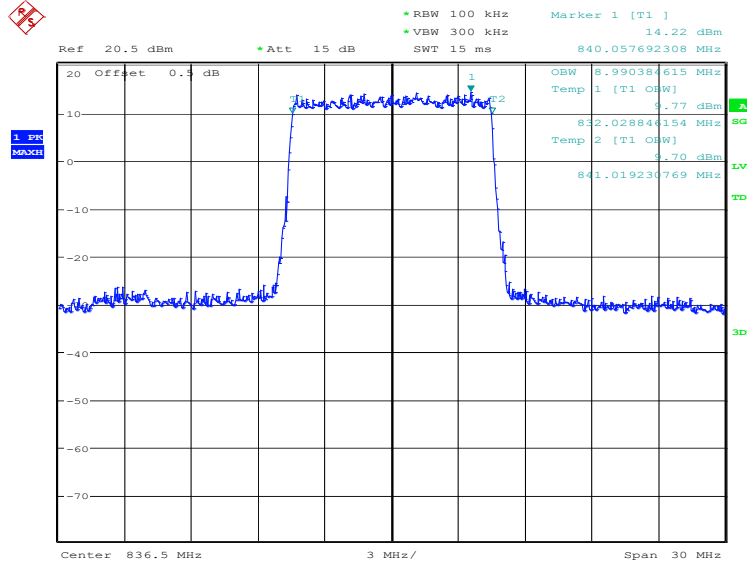


Date: 25.MAR.2021 19:52:51

LTE band 26(824MHz~849MHz), 10MHz (99%)

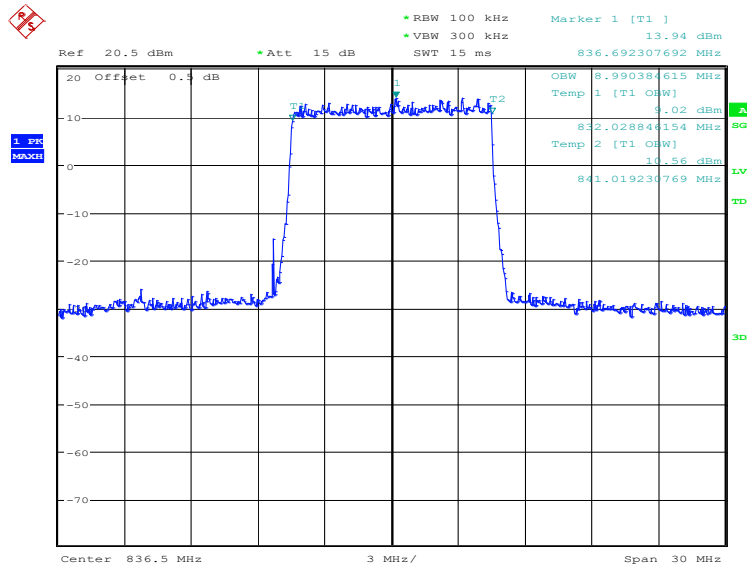
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8990.38	8990.38

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:54:20

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 16QAM (99% BW)

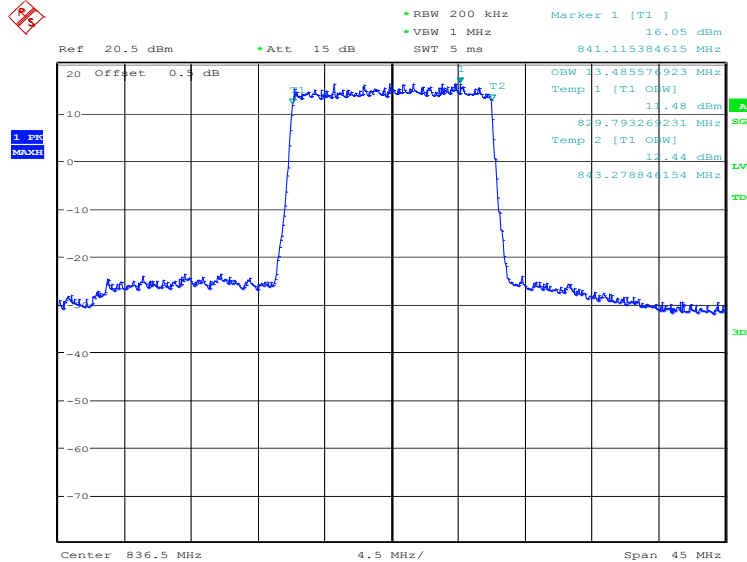


Date: 25.MAR.2021 19:55:00

LTE band 26(824MHz~849MHz), 15MHz (99%)

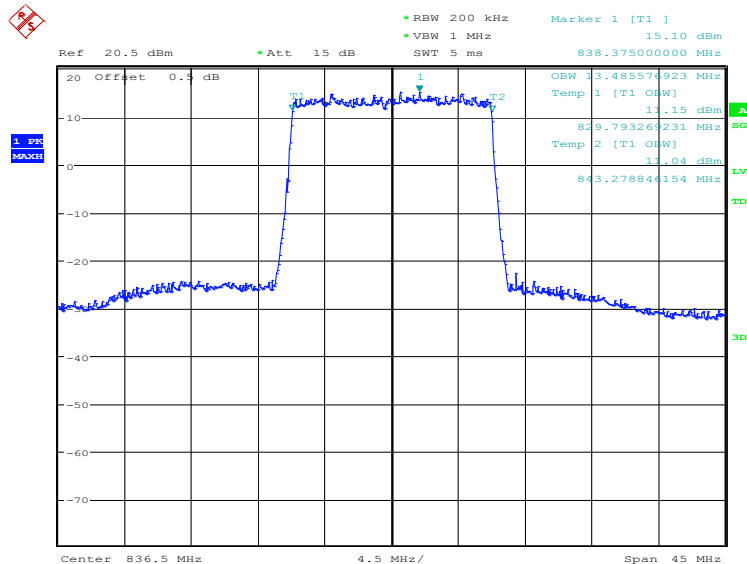
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13485.58	13485.58

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 19:56:29

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 16QAM (99% BW)

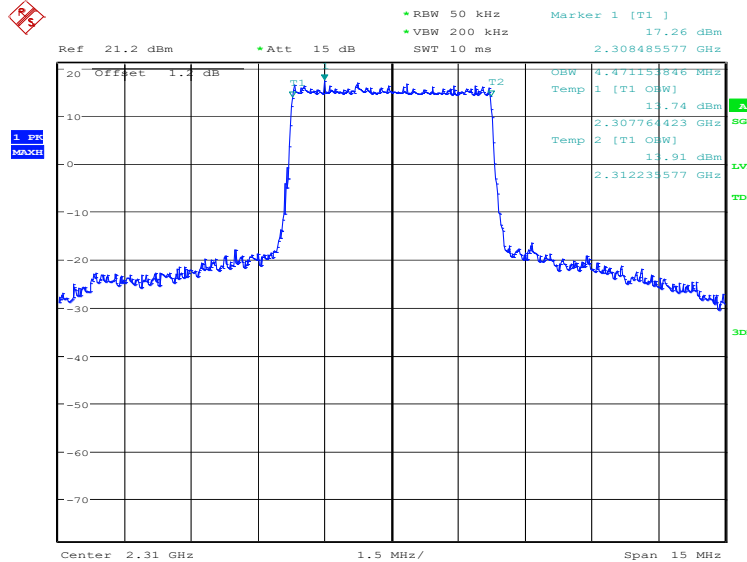


Date: 25.MAR.2021 19:57:09

LTE band 30, 5MHz (99%)

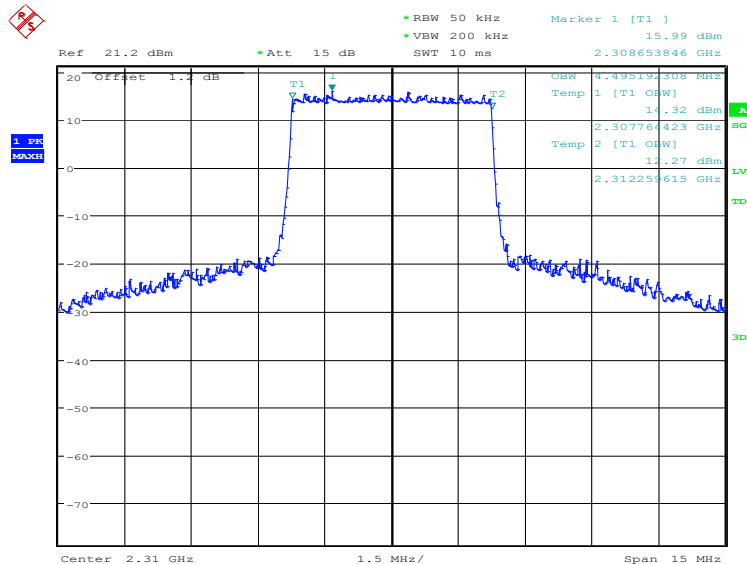
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2310.0	QPSK	16QAM
	4471.15	4495.19

LTE band 30, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:07:06

LTE band 30, 5MHz Bandwidth,16QAM (99% BW)

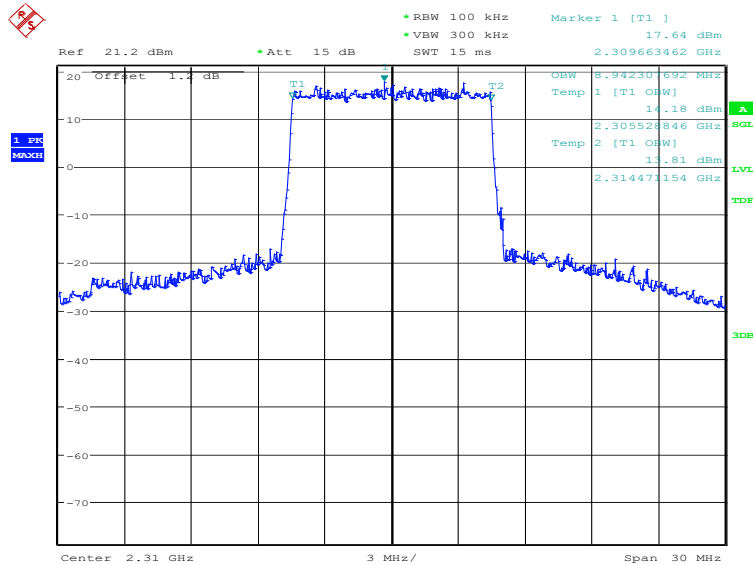


Date: 25.MAR.2021 20:07:46

LTE band 30, 10MHz (99%)

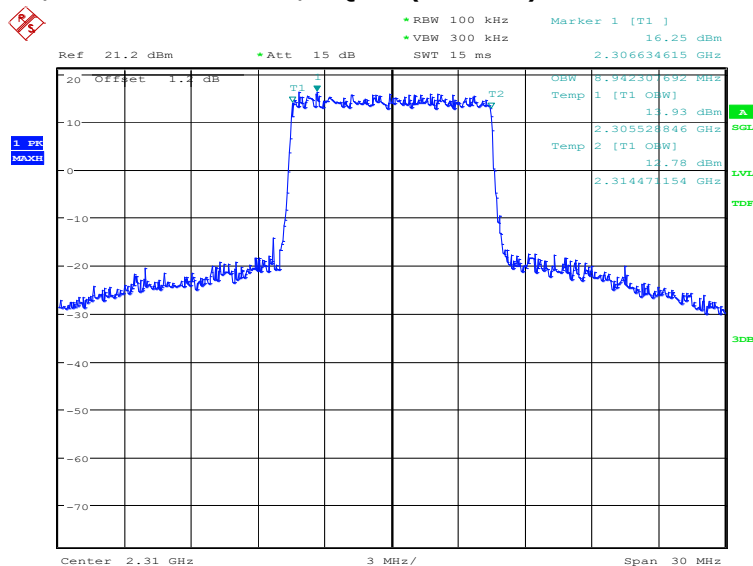
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2310.0	QPSK	16QAM
	8942.31	8942.31

LTE band 30, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.APR.2021 16:29:06

LTE band 30, 10MHz Bandwidth, 16QAM (99% BW)

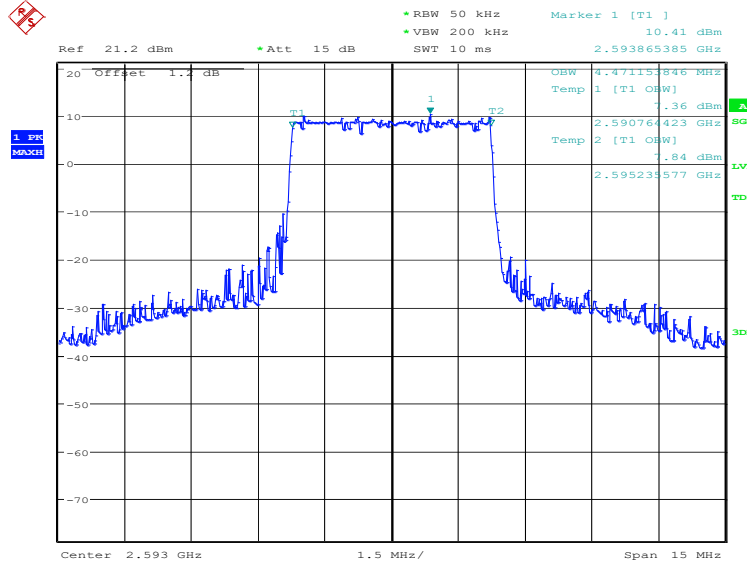


Date: 25.APR.2021 16:29:46

LTE band 41, 5MHz (99%)

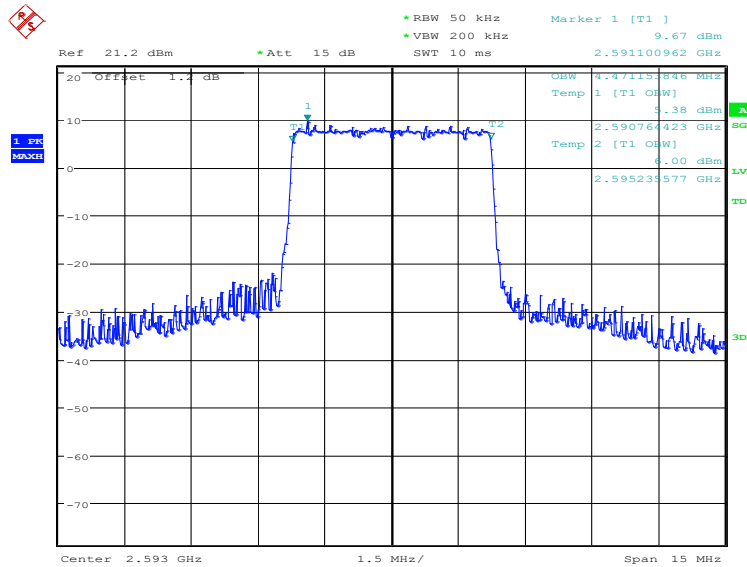
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4471.15	4471.15

LTE band 41, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:24:14

LTE band 41, 5MHz Bandwidth,16QAM (99% BW)

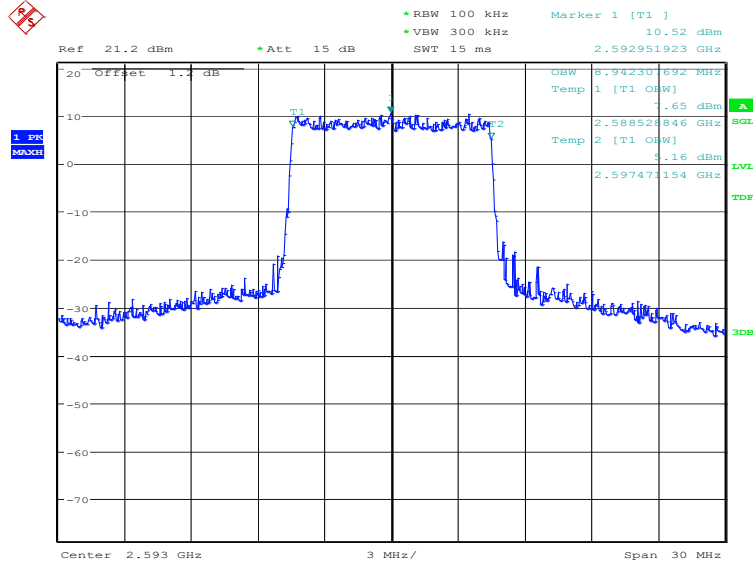


Date: 25.MAR.2021 20:24:54

LTE band 41, 10MHz (99%)

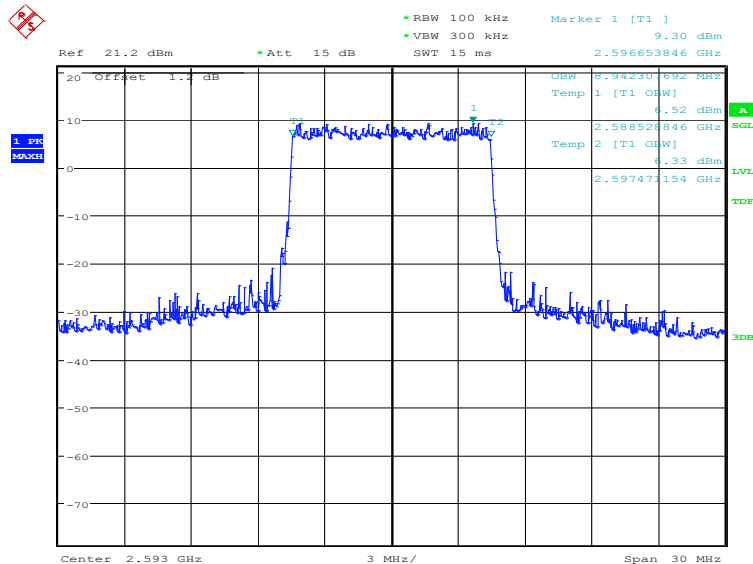
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

LTE band 41, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:26:23

LTE band 41, 10MHz Bandwidth,16QAM (99% BW)

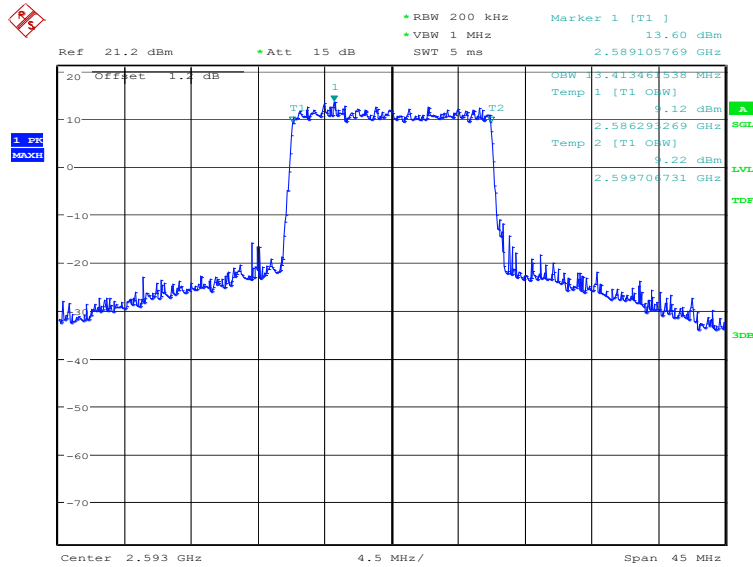


Date: 25.MAR.2021 20:27:03

LTE band 41, 15MHz (99%)

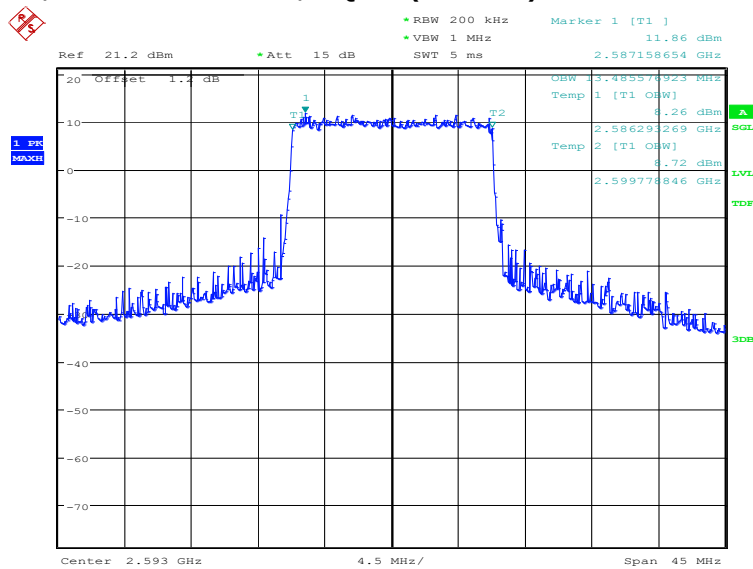
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13413.46	13485.58

LTE band 41, 15MHz Bandwidth, QPSK (99% BW)



Date: 25.APR.2021 16:33:14

LTE band 41, 15MHz Bandwidth,16QAM (99% BW)

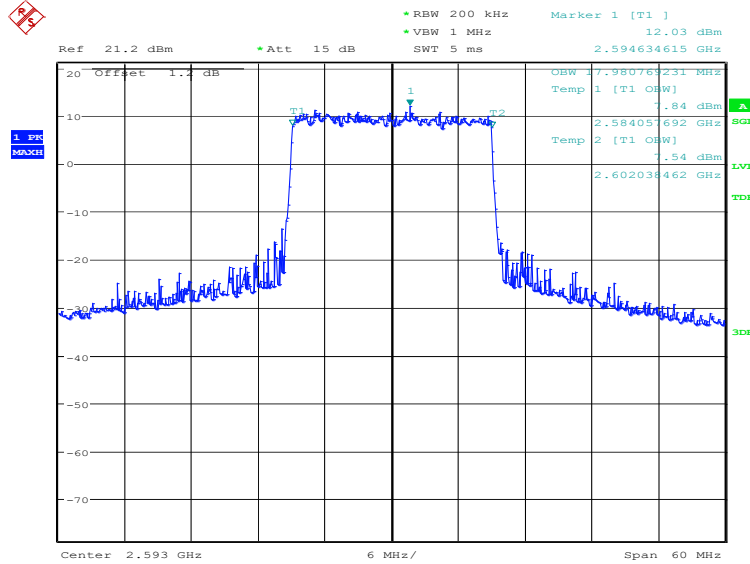


Date: 25.APR.2021 16:33:54

LTE band 41, 20MHz (99%)

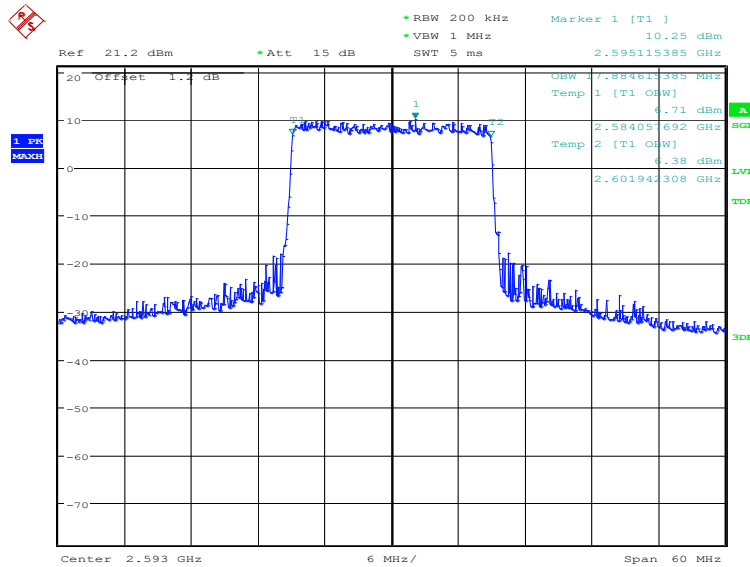
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17980.77	17884.62

LTE band 41, 20MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:29:54

LTE band 41, 20MHz Bandwidth, 16QAM (99% BW)

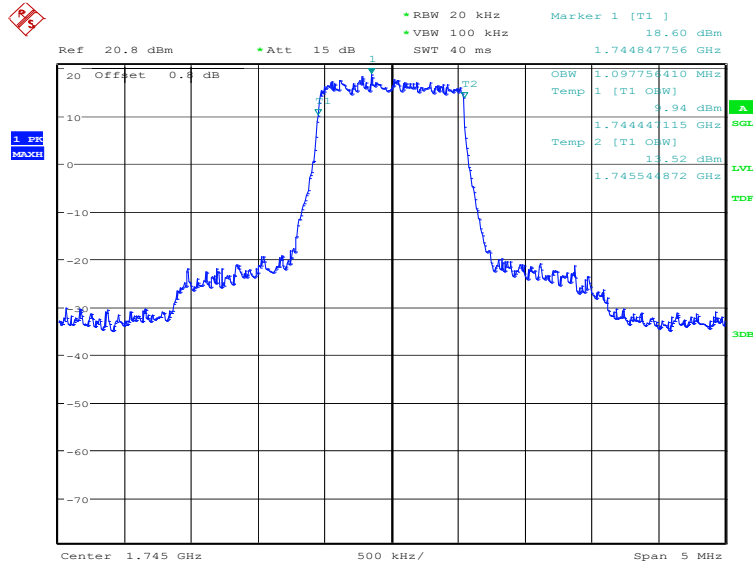


Date: 25.MAR.2021 20:30:35

LTE band 66, 1.4MHz (99%)

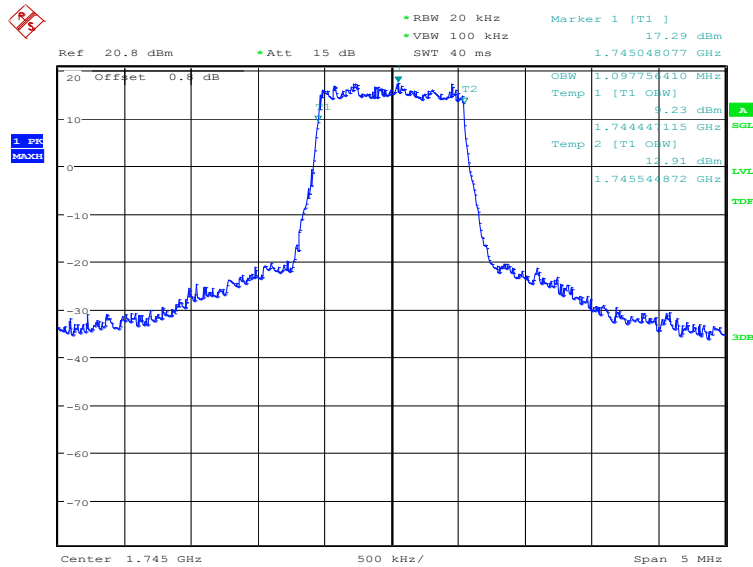
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1097.76	1097.76

LTE band 66, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:11:26

LTE band 66, 1.4MHz Bandwidth, 16QAM (99% BW)

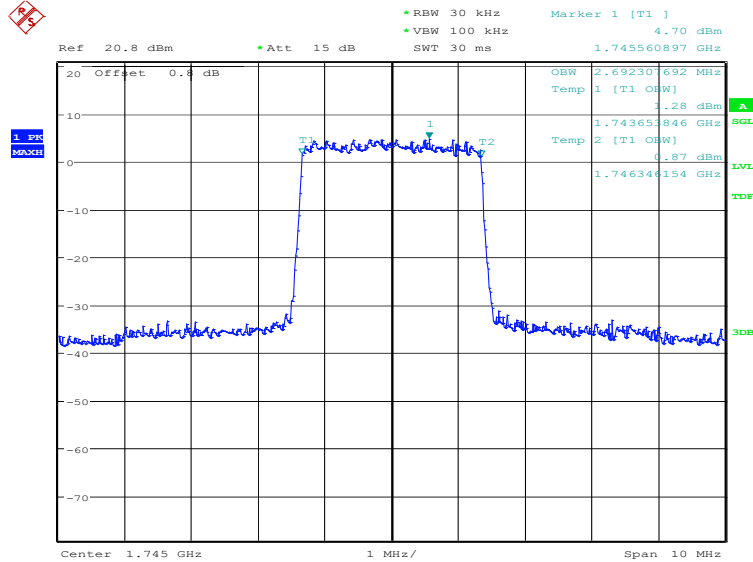


Date: 25.MAR.2021 20:12:06

LTE band 66, 3MHz (99%)

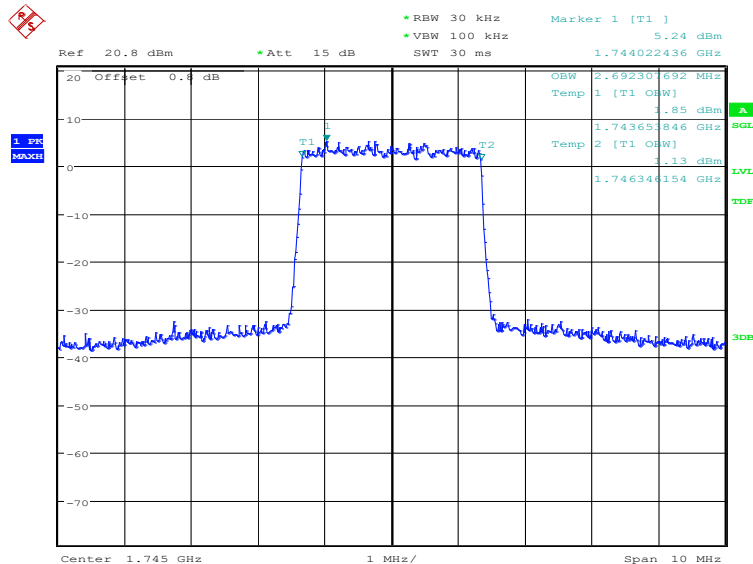
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

LTE band 66, 3MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:13:35

LTE band 66, 3MHz Bandwidth, 16QAM (99% BW)

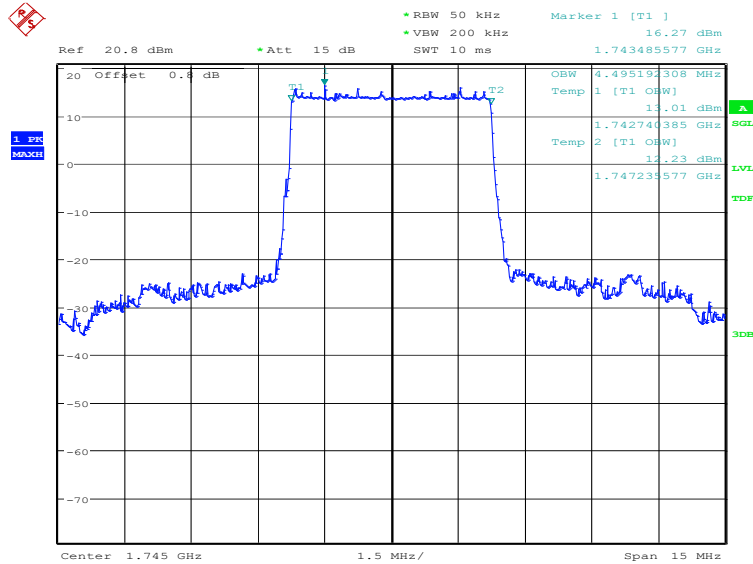


Date: 25.MAR.2021 20:14:15

LTE band 66, 5MHz (99%)

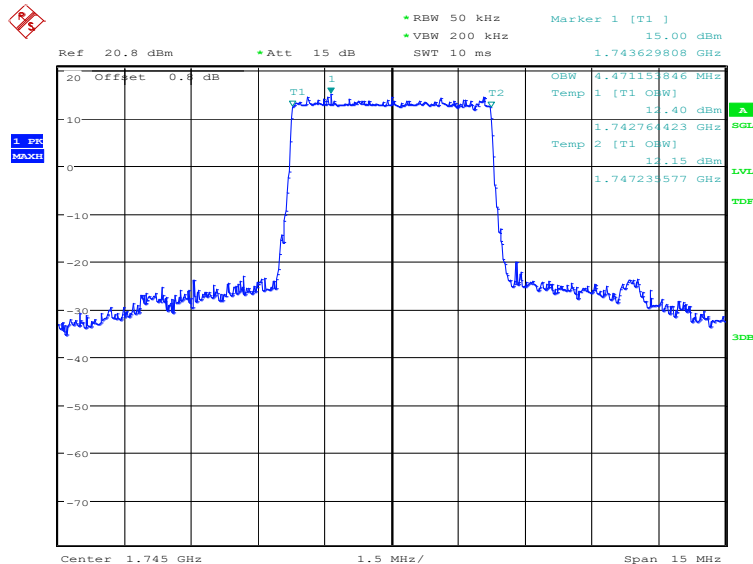
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4495.19	4471.15

LTE band 66, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:15:44

LTE band 66, 5MHz Bandwidth, 16QAM (99% BW)

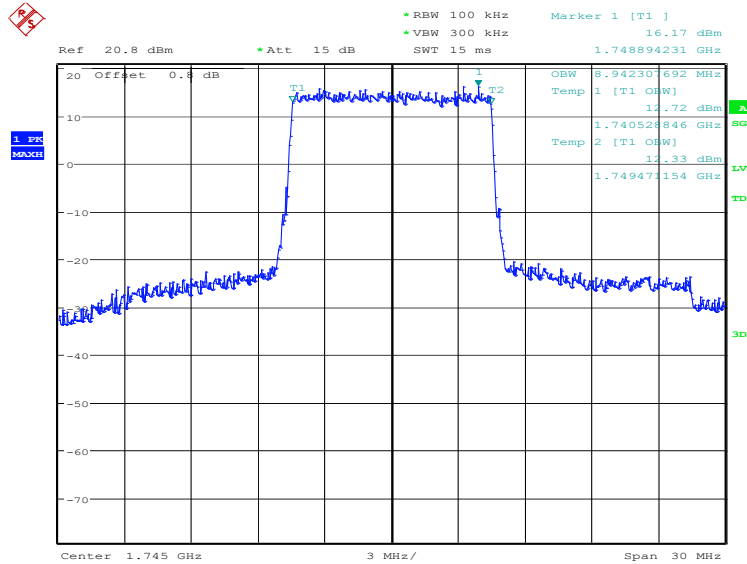


Date: 25.MAR.2021 20:16:24

LTE band 66, 10MHz (99%)

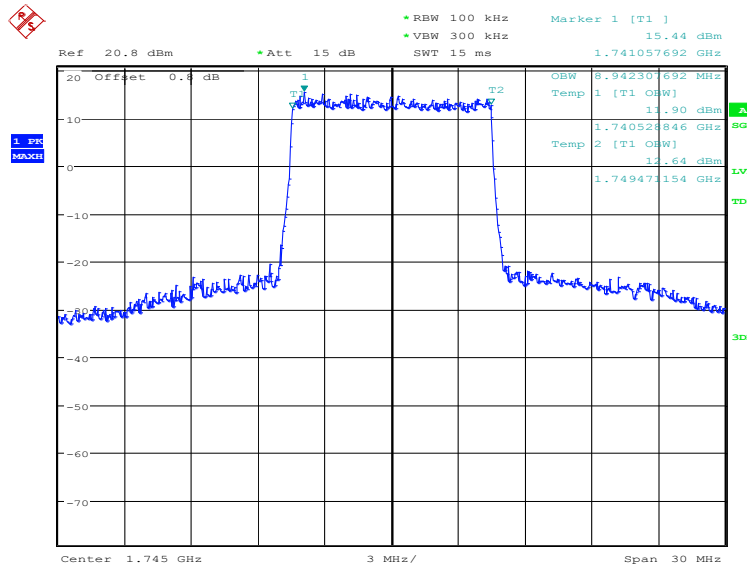
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8942.31	8942.31

LTE band 66, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:17:53

LTE band 66, 10MHz Bandwidth, 16QAM (99% BW)

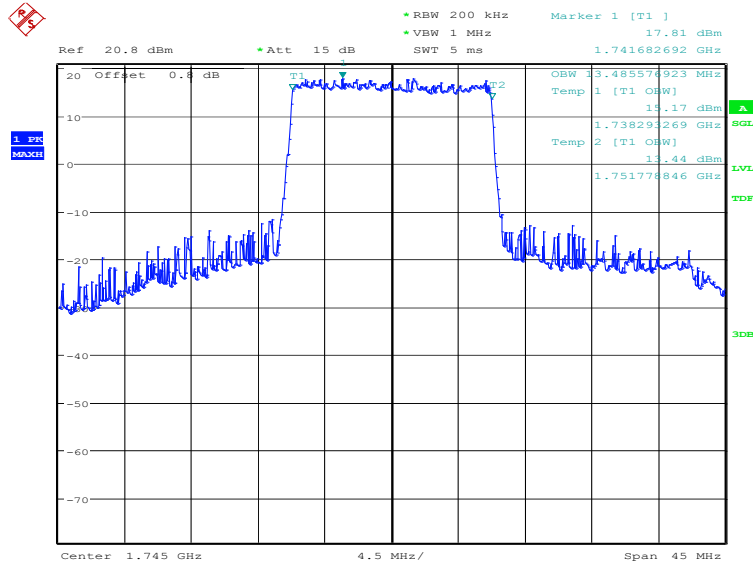


Date: 25.MAR.2021 20:18:33

LTE band 66, 15MHz (99%)

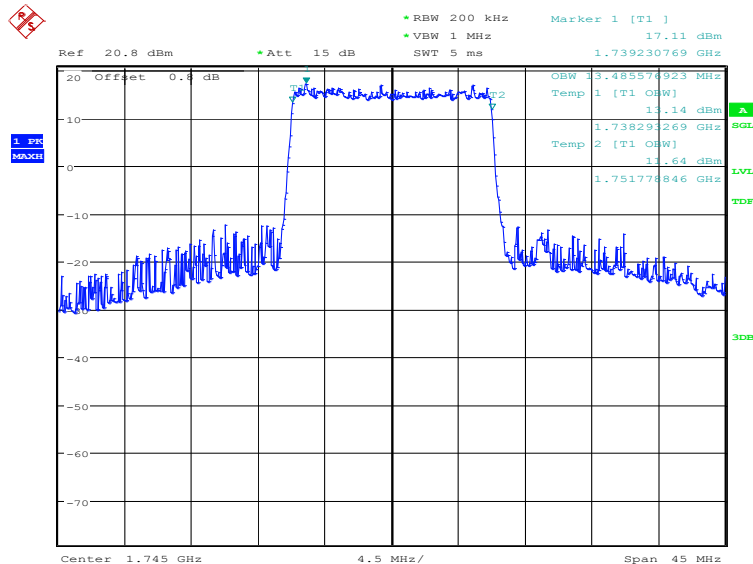
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13485.58	13485.58

LTE band 66, 15MHz Bandwidth, QPSK (99% BW)



Date: 25.APR.2021 18:28:13

LTE band 66, 15MHz Bandwidth, 16QAM (99% BW)

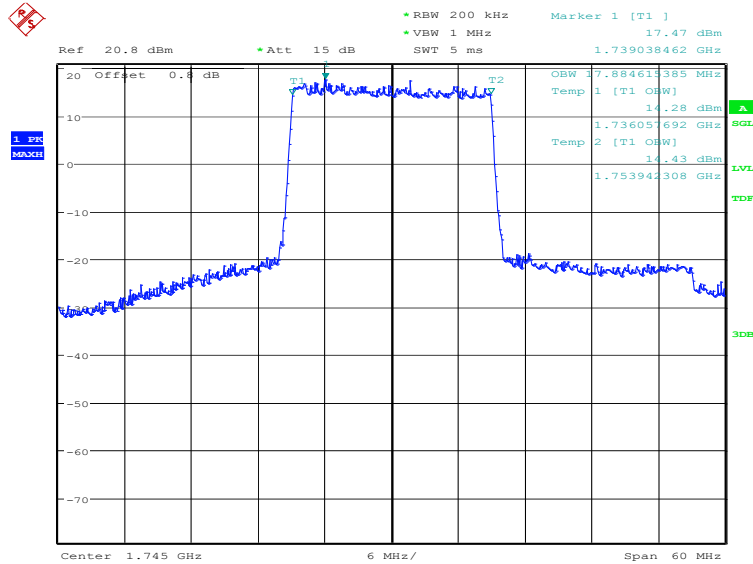


Date: 25.APR.2021 18:28:52

LTE band 66, 20MHz (99%)

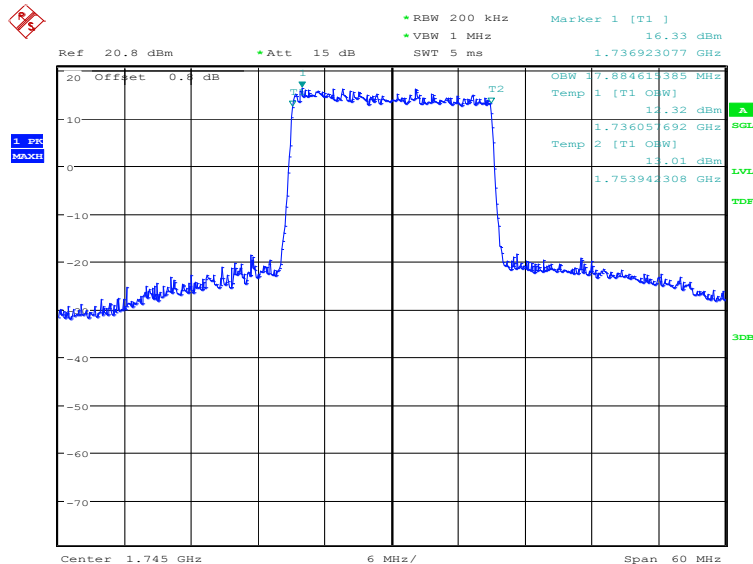
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17884.62	17884.62

LTE band 66, 20MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 20:22:12

LTE band 66, 20MHz Bandwidth, 16QAM (99% BW)

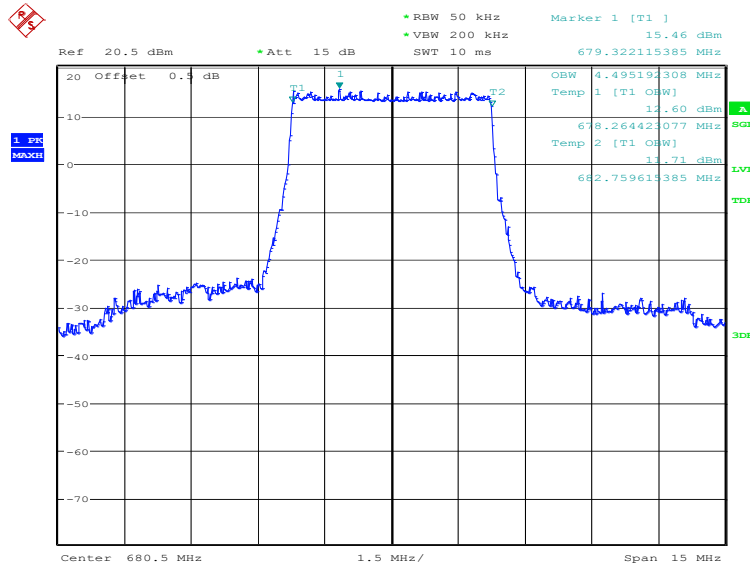


Date: 25.MAR.2021 20:22:52

LTE band 71, 5MHz (99%)

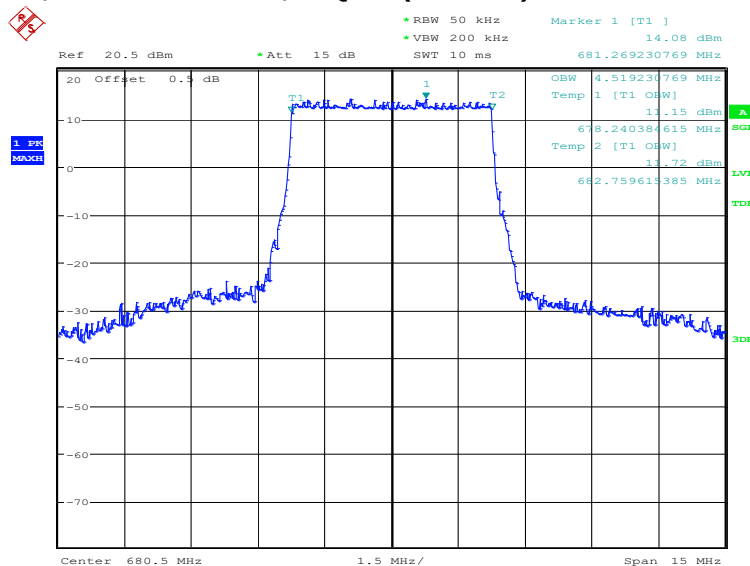
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	4495.19	4519.23

LTE band 71, 5MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:22:29

LTE band 71, 5MHz Bandwidth, 16QAM (99% BW)

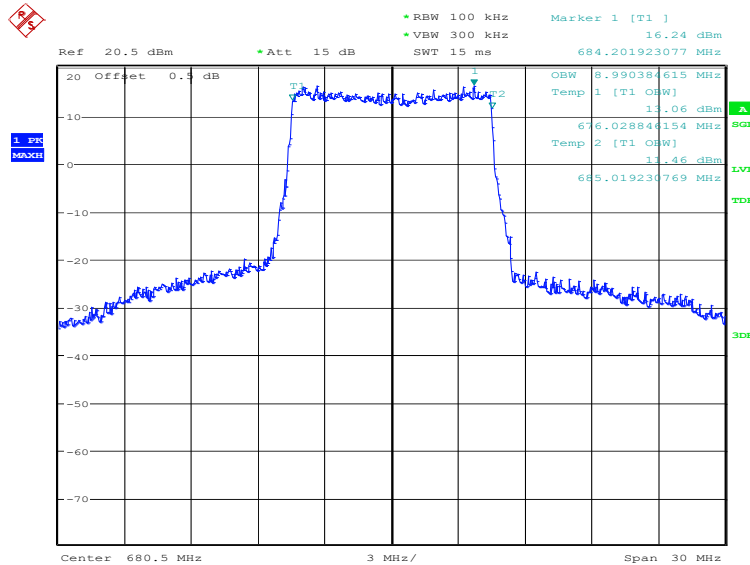


Date: 25.MAR.2021 18:23:08

LTE band 71, 10MHz (99%)

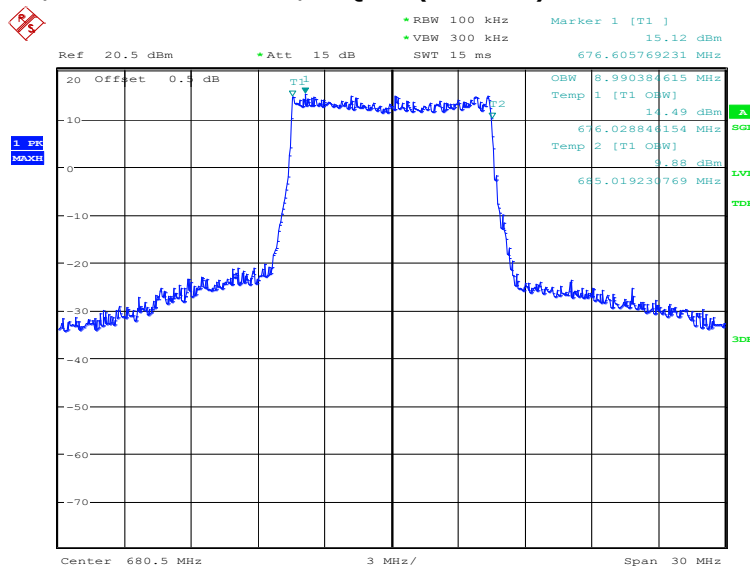
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	8990.38	8990.38

LTE band 71, 10MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:24:37

LTE band 71, 10MHz Bandwidth, 16QAM (99% BW)

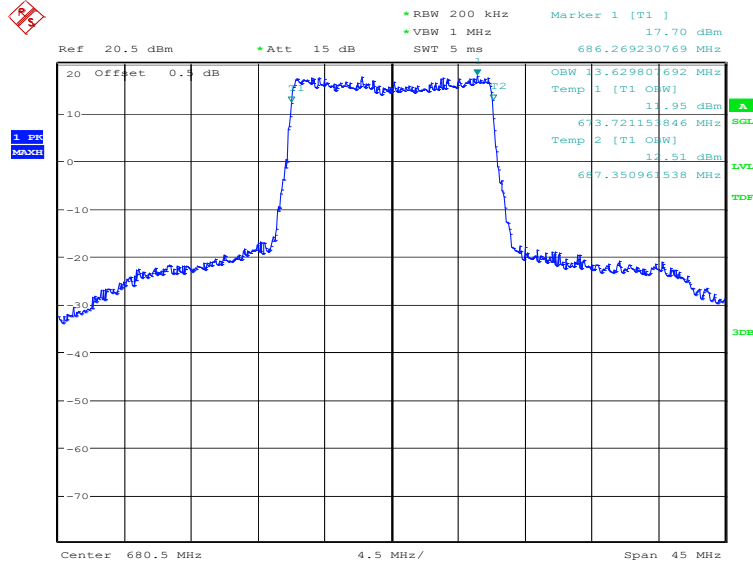


Date: 25.MAR.2021 18:25:17

LTE band 71, 15MHz (99%)

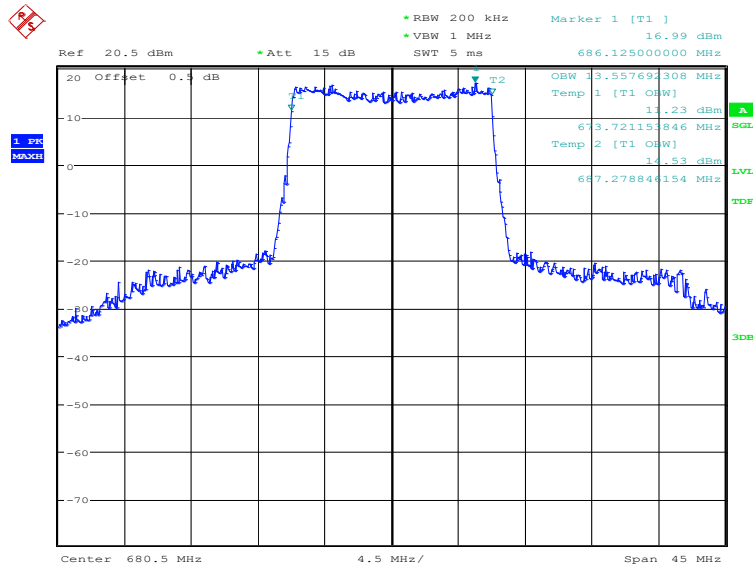
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	13629.81	13557.69

LTE band 71, 15MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:26:45

LTE band 71, 15MHz Bandwidth, 16QAM (99% BW)

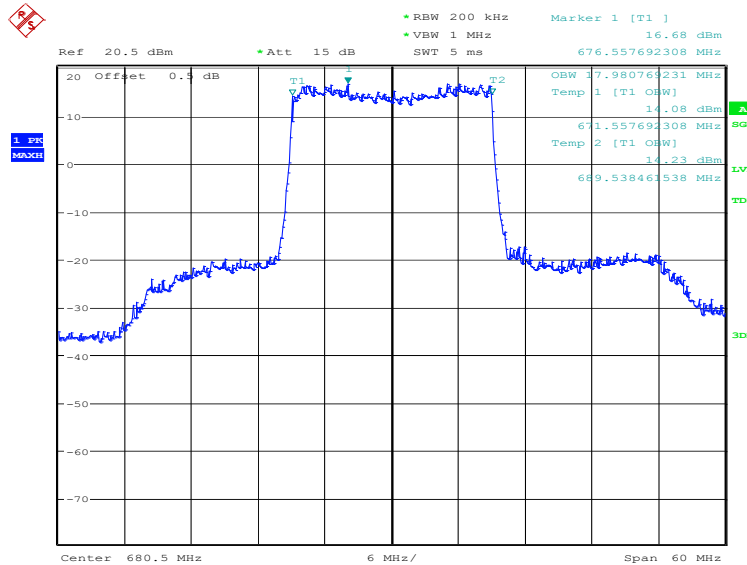


Date: 25.MAR.2021 18:27:25

LTE band 71, 20MHz (99%)

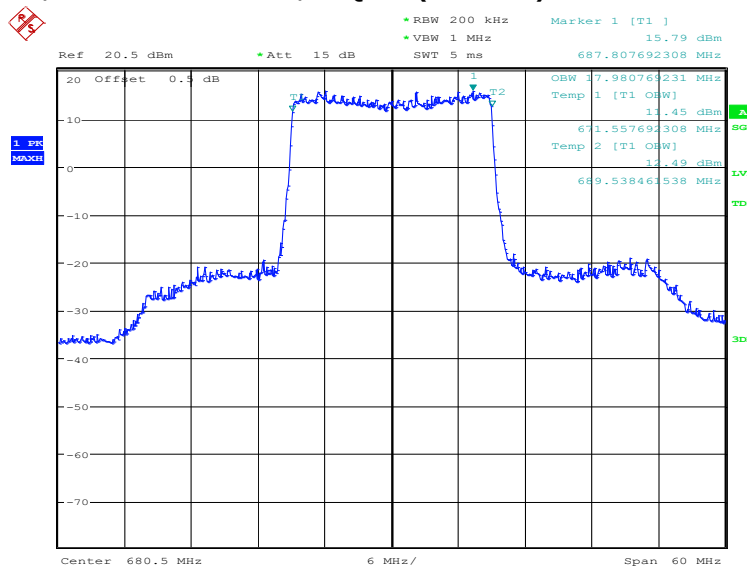
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
680.5	QPSK	16QAM
	17980.77	17980.77

LTE band 71, 20MHz Bandwidth, QPSK (99% BW)



Date: 25.MAR.2021 18:28:54

LTE band 71, 20MHz Bandwidth, 16QAM (99% BW)



Date: 25.MAR.2021 18:29:33

A.5 Emission Bandwidth

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

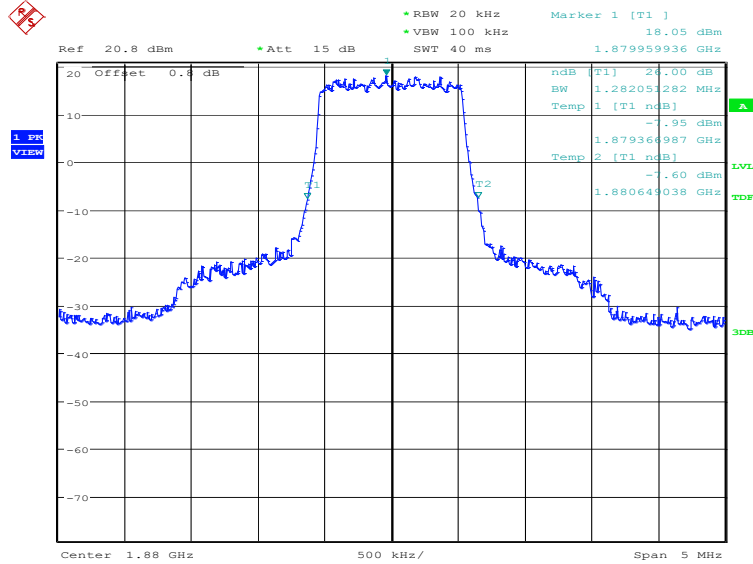
The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

LTE band 2, 1.4MHz (-26dBc)

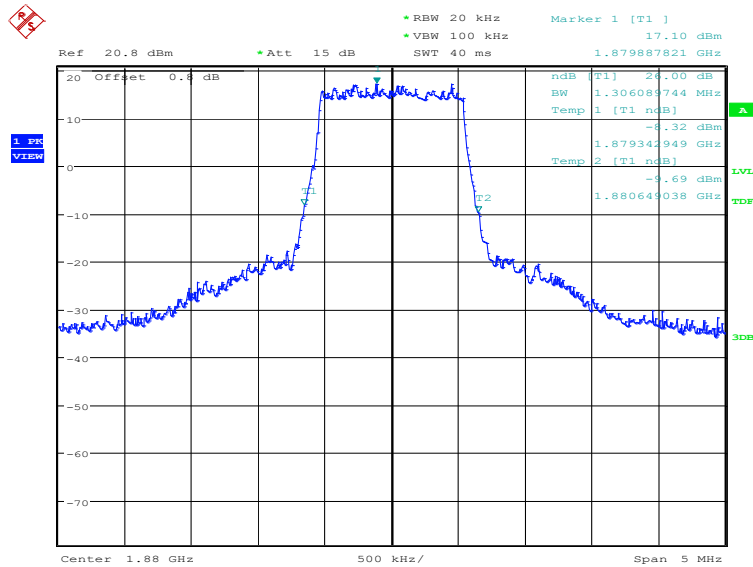
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	1282.05	1306.09

LTE band 2, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 20:40:50

LTE band 2, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

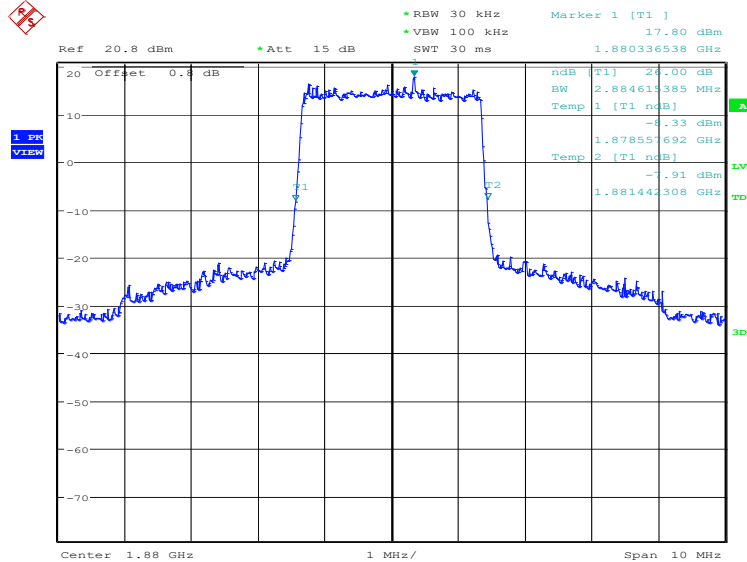


Date: 25.MAR.2021 20:41:30

LTE band 2, 3MHz (-26dBc)

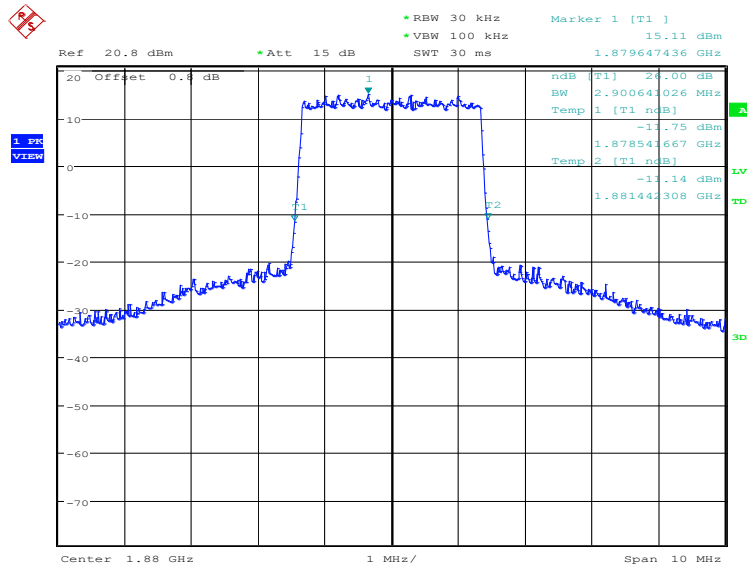
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	2884.62	2900.64

LTE band 2, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 20:43:00

LTE band 2, 3MHz Bandwidth, 16QAM (-26dBc BW)

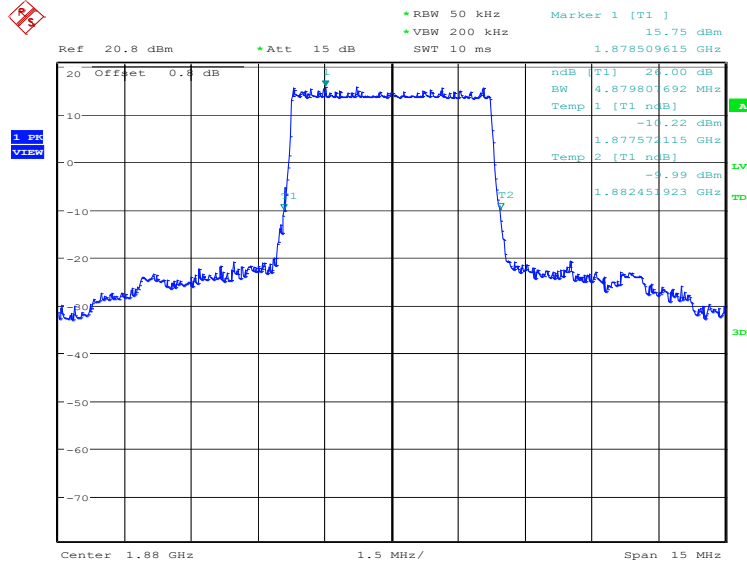


Date: 25.MAR.2021 20:43:40

LTE band 2, 5MHz (-26dBc)

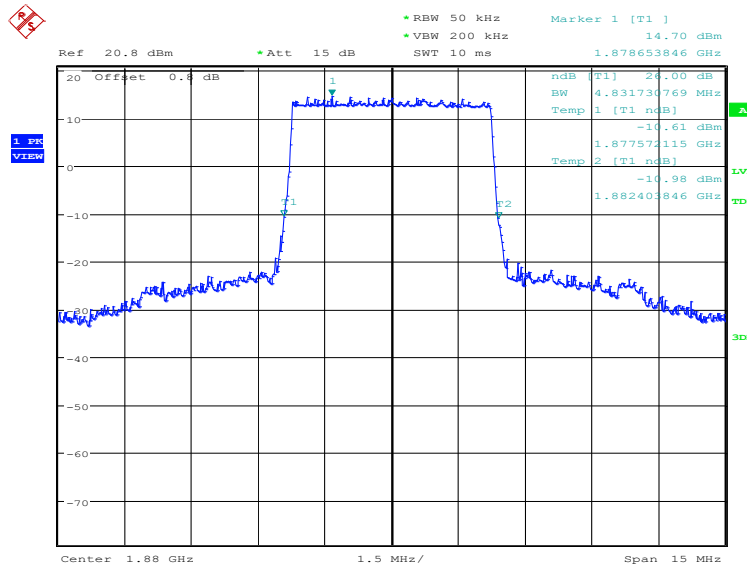
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	4879.81	4831.73

LTE band 2, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 20:45:09

LTE band 2, 5MHz Bandwidth, 16QAM (-26dBc BW)

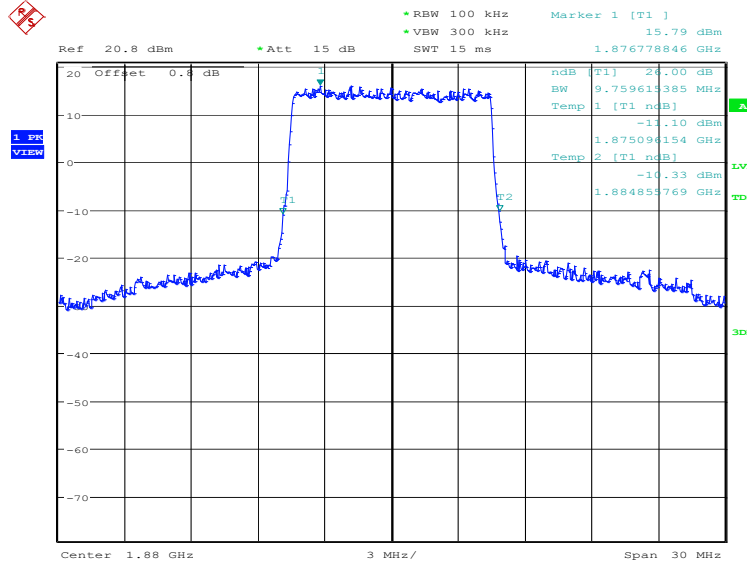


Date: 25.MAR.2021 20:45:50

LTE band 2, 10MHz (-26dBc)

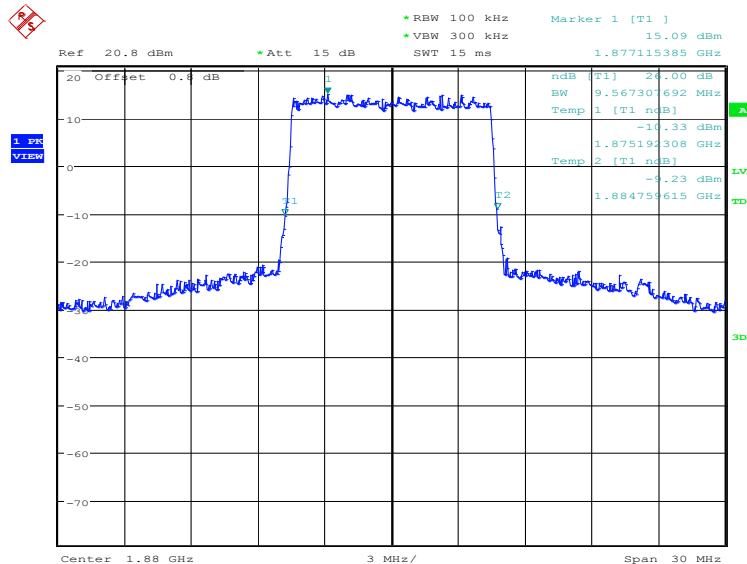
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	9759.62	9567.31

LTE band 2, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 20:47:19

LTE band 2, 10MHz Bandwidth, 16QAM (-26dBc BW)

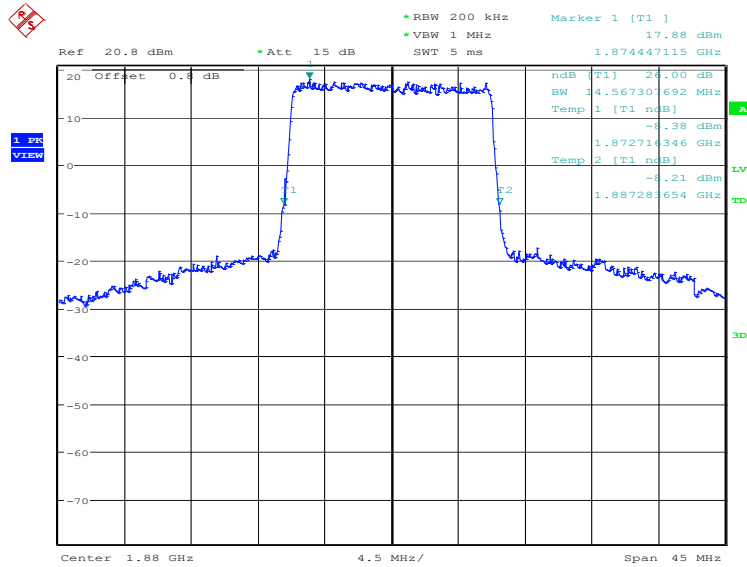


Date: 25.MAR.2021 20:48:00

LTE band 2, 15MHz (-26dBc)

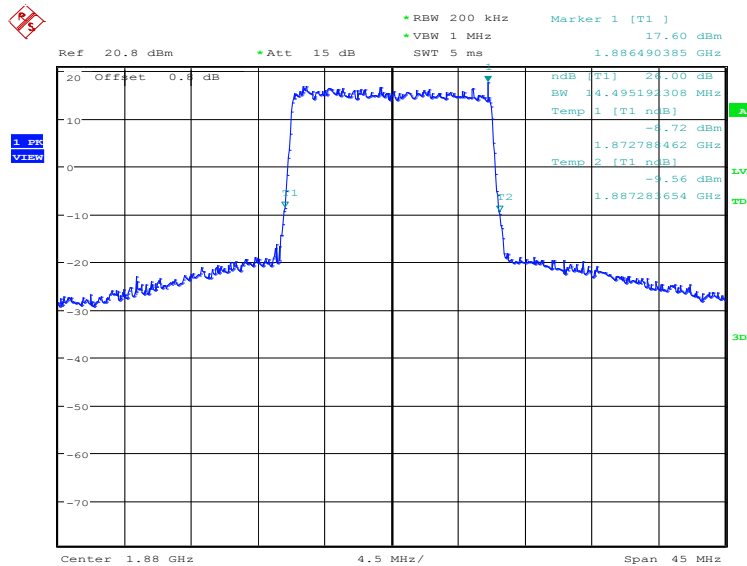
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	14567.31	14495.19

LTE band 2, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.APR.2021 16:45:24

LTE band 2, 15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 25.APR.2021 16:46:03