		2535	24.41	23.55	22.57	22.63	21.77	20.79
		2510	24.43	23.61	22.59	22.65	21.83	20.81
	1 RB low	2560	24.43	23.64	22.52	22.65	21.86	20.74
		2535	24.39	23.56	22.60	22.61	21.78	20.82
		2510	24.39	23.51	22.51	22.61	21.73	20.73
	50% RB mid	2560	23.64	22.60	21.61	21.86	20.82	19.83
		2535	23.68	22.63	21.64	21.90	20.85	19.86
		2510	23.62	22.62	21.66	21.84	20.84	19.88
	100% RB	2560	23.52	22.48	21.53	21.74	20.70	19.75
		2535	23.55	22.49	21.53	21.77	20.71	19.75
		2510	23.59	22.54	21.61	21.81	20.76	19.83

LTE Band 12-ERP
Limits: ≤34.77dBm(3W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-5.94)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	24.14	23.38	22.10	16.05	15.29	14.01
		707.5	24.14	23.58	22.37	16.05	15.49	14.28
		699.7	24.35	23.41	22.30	16.26	15.32	14.21
	1 RB low	715.3	24.40	23.33	22.52	16.31	15.24	14.43
		707.5	24.37	23.52	22.49	16.28	15.43	14.40
		699.7	24.19	23.43	22.40	16.10	15.34	14.31
	50% RB mid	715.3	24.12	23.57	22.56	16.03	15.48	14.47
		707.5	24.45	23.33	22.59	16.36	15.24	14.50
		699.7	24.26	23.42	22.59	16.17	15.33	14.50
	100% RB	715.3	23.18	22.19	21.09	15.09	14.10	13.00
		707.5	23.21	22.10	21.27	15.12	14.01	13.18
		699.7	23.30	22.36	21.47	15.21	14.27	13.38
3MHz	1 RB high	714.5	24.38	23.38	22.00	16.29	15.29	13.91
		707.5	24.13	23.28	22.36	16.04	15.19	14.27
		700.5	24.28	23.38	22.33	16.19	15.29	14.24
	1 RB low	714.5	24.10	23.33	22.60	16.01	15.24	14.51
		707.5	24.35	23.66	22.45	16.26	15.57	14.36
		700.5	24.39	23.53	22.52	16.30	15.44	14.43
	50% RB mid	714.5	23.36	22.33	21.44	15.27	14.24	13.35
		707.5	23.35	22.42	21.43	15.26	14.33	13.34
		700.5	23.38	22.26	21.40	15.29	14.17	13.31
	100% RB	714.5	23.34	22.29	21.18	15.25	14.20	13.09
		707.5	23.22	22.09	21.33	15.13	14.00	13.24
		700.5	23.18	22.35	21.21	15.09	14.26	13.12
5MHz	1 RB high	713.5	24.37	23.32	22.11	16.28	15.23	14.02
		707.5	24.19	23.41	22.30	16.10	15.32	14.21
		701.5	24.20	23.42	22.19	16.11	15.33	14.10
	1 RB low	713.5	24.14	23.28	22.54	16.05	15.19	14.45
		707.5	24.42	23.62	22.56	16.33	15.53	14.47
		701.5	24.22	23.55	22.66	16.13	15.46	14.57
	50% RB mid	713.5	23.31	22.16	21.18	15.22	14.07	13.09
		707.5	23.45	22.17	21.25	15.36	14.08	13.16
		701.5	23.34	22.37	21.49	15.25	14.28	13.40
	100% RB	713.5	23.25	22.32	21.09	15.16	14.23	13.00
		707.5	23.08	22.35	21.12	14.99	14.26	13.03
		701.5	23.16	22.30	21.39	15.07	14.21	13.30
10MHz	1 RB high	711	24.22	23.21	22.16	16.13	15.12	14.07

		707.5	24.21	23.44	22.43	16.12	15.35	14.34
		704	24.17	23.48	22.35	16.08	15.39	14.26
	1 RB low	711	24.27	23.45	22.50	16.18	15.36	14.41
		707.5	24.26	23.58	22.45	16.17	15.49	14.36
		704	24.29	23.51	22.54	16.20	15.42	14.45
	50% RB mid	711	23.31	22.31	21.35	15.22	14.22	13.26
		707.5	23.37	22.34	21.36	15.28	14.25	13.27
		704	23.32	22.37	21.38	15.23	14.28	13.29
	100% RB	711	23.24	22.19	21.23	15.15	14.10	13.14
		707.5	23.26	22.26	21.29	15.17	14.17	13.20
		704	23.29	22.26	21.29	15.20	14.17	13.20

LTE Band 13-ERP

Limits: ≤34.77dBm(3W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-8.63)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	24.38	23.56	22.47	13.60	12.78	11.69
		782	24.48	23.73	22.75	13.70	12.95	11.97
		779.5	24.44	23.74	22.55	13.66	12.96	11.77
	1 RB low	784.5	24.27	23.52	22.63	13.49	12.74	11.85
		782	24.26	23.83	22.63	13.48	13.05	11.85
		779.5	24.24	23.58	22.72	13.46	12.80	11.94
	50% RB mid	784.5	23.29	22.37	21.42	12.51	11.59	10.64
		782	23.31	22.59	21.40	12.53	11.81	10.62
		779.5	23.35	22.29	21.22	12.57	11.51	10.44
	100% RB	784.5	23.51	22.21	21.40	12.73	11.43	10.62
		782	23.48	22.57	21.66	12.70	11.79	10.88
		779.5	23.26	22.49	21.42	12.48	11.71	10.64
10MHz	1 RB high	782	24.32	23.45	22.49	13.54	12.67	11.71
	1 RB low	782	24.41	23.65	22.61	13.63	12.87	11.83
	50% RB mid	782	23.44	22.42	21.49	12.66	11.64	10.71
	100% RB	782	23.36	22.34	21.36	12.58	11.56	10.58

LTE Band 26(814MHz~824MHz)-ERP
Limits: ≤50dBm(100W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-5.73)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	24.27	23.32	22.37	16.39	15.44	14.49
		819	24.31	23.33	22.35	16.43	15.45	14.47
		814.7	24.33	23.30	22.74	16.45	15.42	14.86
	1 RB low	823.3	24.23	23.26	22.27	16.35	15.38	14.39
		819	24.29	23.31	22.32	16.41	15.43	14.44
		814.7	24.35	23.30	22.73	16.47	15.42	14.85
	50% RB mid	823.3	24.36	23.56	22.64	16.48	15.68	14.76
		819	24.41	23.59	22.69	16.53	15.71	14.81
		814.7	24.40	23.55	22.66	16.52	15.67	14.78
	100% RB	823.3	23.48	22.38	21.81	15.60	14.50	13.93
		819	23.52	22.44	21.86	15.64	14.56	13.98
		814.7	23.53	22.41	21.84	15.65	14.53	13.96
3MHz	1 RB high	822.5	24.13	23.21	22.18	16.25	15.33	14.30
		819	24.09	23.20	22.19	16.21	15.32	14.31
		815.5	24.19	23.23	22.17	16.31	15.35	14.29
	1 RB low	822.5	24.09	23.15	22.24	16.21	15.27	14.36
		819	24.14	23.17	22.21	16.26	15.29	14.33
		815.5	24.23	23.17	22.22	16.35	15.29	14.34
	50% RB mid	822.5	23.33	22.45	21.33	15.45	14.57	13.45
		819	23.38	22.49	21.36	15.50	14.61	13.48
		815.5	23.44	22.45	21.39	15.56	14.57	13.51
	100% RB	822.5	23.34	22.33	21.40	15.46	14.45	13.52
		819	23.34	22.32	21.47	15.46	14.44	13.59
		815.5	23.35	22.31	21.39	15.47	14.43	13.51
5MHz	1 RB high	821.5	24.38	23.51	22.65	16.50	15.63	14.77
		819	24.38	23.47	22.64	16.50	15.59	14.76
		816.5	24.41	23.53	22.67	16.53	15.65	14.79
	1 RB low	821.5	24.36	23.47	22.65	16.48	15.59	14.77
		819	24.40	23.47	22.62	16.52	15.59	14.74
		816.5	24.43	23.47	22.61	16.55	15.59	14.73
	50% RB mid	821.5	23.49	22.56	21.57	15.61	14.68	13.69
		819	23.51	22.57	21.62	15.63	14.69	13.74
		816.5	23.53	22.57	21.61	15.65	14.69	13.73
	100% RB	821.5	23.47	22.47	21.57	15.59	14.59	13.69
		819	23.47	22.49	21.56	15.59	14.61	13.68
		816.5	23.46	22.48	21.59	15.58	14.60	13.71
10MHz	1 RB high	819	24.45	23.53	22.41	16.57	15.65	14.53

	1 RB low	819	24.55	23.48	22.37	16.67	15.60	14.49
	50% RB mid	819	23.48	22.68	21.64	15.60	14.80	13.76
	100% RB	819	23.45	22.51	21.51	15.57	14.63	13.63

LTE Band 26(824MHz-849MHz)-ERP
Limits: ≤38.45dBm(7W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			ERP(dBm)(Gt-Lc =-5.73)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	24.35	23.47	22.53	16.47	15.59	14.65
		836.5	24.26	23.34	22.43	16.38	15.46	14.55
		824.7	24.31	23.37	22.83	16.43	15.49	14.95
	1 RB low	848.3	24.30	23.46	22.59	16.42	15.58	14.71
		836.5	24.30	23.31	22.38	16.42	15.43	14.50
		824.7	24.33	23.35	22.88	16.45	15.47	15.00
	50% RB mid	848.3	24.46	23.61	22.69	16.58	15.73	14.81
		836.5	24.40	23.64	22.53	16.52	15.76	14.65
		824.7	24.40	23.60	22.70	16.52	15.72	14.82
	100% RB	848.3	23.55	22.48	21.90	15.67	14.60	14.02
		836.5	23.53	22.69	21.64	15.65	14.81	13.76
		824.7	23.52	22.42	21.82	15.64	14.54	13.94
3MHz	1 RB high	847.5	24.22	23.24	22.18	16.34	15.36	14.30
		836.5	24.13	23.21	22.18	16.25	15.33	14.30
		825.5	24.17	23.25	22.21	16.29	15.37	14.33
	1 RB low	847.5	24.17	23.17	22.20	16.29	15.29	14.32
		836.5	24.14	23.15	22.22	16.26	15.27	14.34
		825.5	24.19	23.22	22.27	16.31	15.34	14.39
	50% RB mid	847.5	23.42	22.52	21.38	15.54	14.64	13.50
		836.5	23.36	22.50	21.35	15.48	14.62	13.47
		825.5	23.39	22.45	21.35	15.51	14.57	13.47
	100% RB	847.5	23.39	22.40	21.49	15.51	14.52	13.61
		836.5	23.37	22.34	21.44	15.49	14.46	13.56
		825.5	23.31	22.31	21.40	15.43	14.43	13.52
5MHz	1 RB high	846.5	24.45	23.51	22.67	16.57	15.63	14.79
		836.5	24.38	23.51	22.66	16.50	15.63	14.78
		826.5	24.40	23.51	22.63	16.52	15.63	14.75
	1 RB low	846.5	24.38	23.47	22.63	16.50	15.59	14.75
		836.5	24.37	23.51	22.65	16.49	15.63	14.77
		826.5	24.37	23.50	22.65	16.49	15.62	14.77
	50% RB mid	846.5	23.49	22.59	21.61	15.61	14.71	13.73
		836.5	23.49	22.59	21.60	15.61	14.71	13.72
		826.5	23.45	22.57	21.53	15.57	14.69	13.65
	100% RB	846.5	23.51	22.49	21.62	15.63	14.61	13.74
		836.5	23.48	22.48	21.58	15.60	14.60	13.70
		826.5	23.43	22.43	21.52	15.55	14.55	13.64
10MHz	1 RB high	844	24.59	23.56	22.44	16.71	15.68	14.56

		836.5	24.53	23.58	22.46	16.65	15.70	14.58
		829	24.47	23.45	22.39	16.59	15.57	14.51
	1 RB low	844	24.48	23.55	22.45	16.60	15.67	14.57
		836.5	24.44	23.44	22.34	16.56	15.56	14.46
		829	24.45	23.48	22.36	16.57	15.60	14.48
	50% RB mid	844	23.48	22.71	21.63	15.60	14.83	13.75
		836.5	23.46	22.68	21.63	15.58	14.80	13.75
		829	23.53	22.58	21.69	15.65	14.70	13.81
	100% RB	844	23.46	22.51	21.55	15.58	14.63	13.67
		836.5	23.50	22.51	21.55	15.62	14.63	13.67
		829	23.48	22.54	21.50	15.60	14.66	13.62
15MHz	1 RB high	841.5	24.49	23.85	22.86	16.61	15.97	14.98
		836.5	24.48	23.92	22.92	16.60	16.04	15.04
		831.5	24.41	23.86	22.85	16.53	15.98	14.97
	1 RB low	841.5	24.40	23.83	22.84	16.52	15.95	14.96
		836.5	24.37	23.73	22.74	16.49	15.85	14.86
		831.5	24.36	23.76	22.79	16.48	15.88	14.91
	50% RB mid	841.5	23.54	22.58	21.58	15.66	14.70	13.70
		836.5	23.51	22.51	21.56	15.63	14.63	13.68
		831.5	23.55	22.51	21.57	15.67	14.63	13.69
	100% RB	841.5	23.57	22.54	21.64	15.69	14.66	13.76
		836.5	23.54	22.53	21.59	15.66	14.65	13.71
		831.5	23.55	22.53	21.57	15.67	14.65	13.69

LTE Band 41-EIRP
Limits: ≤33dBm(2W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-1.78)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	24.18	23.06	22.06	22.40	21.28	20.28
		2593	24.32	23.24	22.01	22.54	21.46	20.23
		2498.5	24.55	23.22	22.12	22.77	21.44	20.34
	1 RB low	2687.5	24.50	23.45	21.88	22.72	21.67	20.10
		2593	24.14	23.28	22.01	22.36	21.50	20.23
		2498.5	24.40	23.18	21.94	22.62	21.40	20.16
	50% RB mid	2687.5	23.57	22.23	21.28	21.79	20.45	19.50
		2593	23.57	22.31	21.47	21.79	20.53	19.69
		2498.5	23.38	22.25	21.38	21.60	20.47	19.60
	100% RB	2687.5	23.36	22.49	21.51	21.58	20.71	19.73
		2593	23.32	22.39	21.44	21.54	20.61	19.66
		2498.5	23.39	22.36	21.55	21.61	20.58	19.77
10MHz	1 RB high	2685	24.39	23.24	21.77	22.61	21.46	19.99
		2593	24.21	23.36	21.77	22.43	21.58	19.99
		2501	24.53	23.42	22.13	22.75	21.64	20.35
	1 RB low	2685	24.15	23.25	21.83	22.37	21.47	20.05
		2593	24.28	23.20	22.11	22.50	21.42	20.33
		2501	24.45	23.21	22.03	22.67	21.43	20.25
	50% RB mid	2685	23.67	22.20	21.41	21.89	20.42	19.63
		2593	23.40	22.39	21.54	21.62	20.61	19.76
		2501	23.47	22.42	21.55	21.69	20.64	19.77
	100% RB	2685	23.23	22.41	21.37	21.45	20.63	19.59
		2593	23.24	22.18	21.39	21.46	20.40	19.61
		2501	23.35	22.52	21.49	21.57	20.74	19.71
15MHz	1 RB high	2682.5	24.06	23.19	22.06	22.28	21.41	20.28
		2593	24.40	23.25	21.97	22.62	21.47	20.19
		2503.5	24.49	23.33	21.88	22.71	21.55	20.10
	1 RB low	2682.5	24.18	23.18	21.95	22.40	21.40	20.17
		2593	24.44	23.39	21.89	22.66	21.61	20.11
		2503.5	24.18	23.39	22.07	22.40	21.61	20.29
	50% RB mid	2682.5	23.70	22.51	21.25	21.92	20.73	19.47
		2593	23.54	22.18	21.41	21.76	20.40	19.63
		2503.5	23.47	22.22	21.40	21.69	20.44	19.62
	100% RB	2682.5	23.30	22.33	21.40	21.52	20.55	19.62
		2593	23.38	22.21	21.46	21.60	20.43	19.68
		2503.5	23.51	22.19	21.27	21.73	20.41	19.49
20MHz	1 RB high	2680	24.21	23.24	21.89	22.43	21.46	20.11

		2593	24.22	23.26	21.87	22.44	21.48	20.09
		2506	24.38	23.36	22.04	22.60	21.58	20.26
	1 RB low	2680	24.32	23.31	21.96	22.54	21.53	20.18
		2593	24.29	23.33	21.99	22.51	21.55	20.21
		2506	24.35	23.28	21.99	22.57	21.50	20.21
	50% RB mid	2680	23.54	22.34	21.40	21.76	20.56	19.62
		2593	23.57	22.35	21.43	21.79	20.57	19.65
		2506	23.51	22.36	21.41	21.73	20.58	19.63
	100% RB	2680	23.35	22.32	21.33	21.57	20.54	19.55
		2593	23.35	22.33	21.34	21.57	20.55	19.56
		2506	23.33	22.37	21.37	21.55	20.59	19.59

LTE Band 66-EIRP
Limits: ≤30dBm(1W)

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)			EIRP(dBm)(Gt-Lc =-2.47)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	24.21	23.22	22.39	21.74	20.75	19.92
		1745	24.17	23.36	22.60	21.70	20.89	20.13
		1710.7	24.09	23.16	22.18	21.62	20.69	19.71
	1 RB low	1779.3	24.18	23.37	22.19	21.71	20.90	19.72
		1745	24.09	23.15	22.33	21.62	20.68	19.86
		1710.7	24.29	23.29	22.36	21.82	20.82	19.89
	50% RB mid	1779.3	24.48	23.38	22.34	22.01	20.91	19.87
		1745	24.11	23.46	22.42	21.64	20.99	19.95
		1710.7	24.40	23.50	22.52	21.93	21.03	20.05
	100% RB	1779.3	23.44	22.51	21.18	20.97	20.04	18.71
		1745	23.27	22.23	21.20	20.80	19.76	18.73
		1710.7	23.19	22.41	21.33	20.72	19.94	18.86
3MHz	1 RB high	1778.5	24.46	23.38	22.48	21.99	20.91	20.01
		1745	24.21	23.55	22.32	21.74	21.08	19.85
		1711.5	24.03	23.16	22.45	21.56	20.69	19.98
	1 RB low	1778.5	24.16	23.37	22.26	21.69	20.90	19.79
		1745	24.09	23.19	22.09	21.62	20.72	19.62
		1711.5	23.99	23.37	22.33	21.52	20.90	19.86
	50% RB mid	1778.5	23.56	22.46	21.48	21.09	19.99	19.01
		1745	23.27	22.34	21.55	20.80	19.87	19.08
		1711.5	23.26	22.48	21.25	20.79	20.01	18.78
	100% RB	1778.5	23.30	22.31	21.19	20.83	19.84	18.72
		1745	23.15	22.33	21.45	20.68	19.86	18.98
		1711.5	23.38	22.27	21.31	20.91	19.80	18.84
5MHz	1 RB high	1777.5	24.24	23.53	22.58	21.77	21.06	20.11
		1745	24.05	23.44	22.34	21.58	20.97	19.87
		1712.5	24.06	23.40	22.36	21.59	20.93	19.89
	1 RB low	1777.5	24.25	23.14	22.39	21.78	20.67	19.92
		1745	24.18	23.16	22.09	21.71	20.69	19.62
		1712.5	24.01	23.59	22.34	21.54	21.12	19.87
	50% RB mid	1777.5	23.47	22.44	21.44	21.00	19.97	18.97
		1745	23.29	22.33	21.35	20.82	19.86	18.88
		1712.5	23.38	22.49	21.54	20.91	20.02	19.07
	100% RB	1777.5	23.38	22.38	21.43	20.91	19.91	18.96
		1745	23.48	22.39	21.41	21.01	19.92	18.94
		1712.5	23.38	22.39	21.12	20.91	19.92	18.65
10MHz	1 RB high	1775	24.34	23.34	22.51	21.87	20.87	20.04

		1745	24.03	23.51	22.57	21.56	21.04	20.10
		1715	24.19	23.24	22.46	21.72	20.77	19.99
	1 RB low	1775	23.99	23.37	22.16	21.52	20.90	19.69
		1745	24.06	23.18	22.09	21.59	20.71	19.62
		1715	24.30	23.58	22.36	21.83	21.11	19.89
	50% RB mid	1775	23.43	22.33	21.50	20.96	19.86	19.03
		1745	23.24	22.19	21.42	20.77	19.72	18.95
		1715	23.34	22.28	21.47	20.87	19.81	19.00
	100% RB	1775	23.38	22.27	21.20	20.91	19.80	18.73
		1745	23.45	22.37	21.46	20.98	19.90	18.99
		1715	23.13	22.39	21.12	20.66	19.92	18.65
15MHz	1 RB high	1772.5	24.21	23.23	22.35	21.74	20.76	19.88
		1745	24.29	23.58	22.34	21.82	21.11	19.87
		1717.5	24.27	23.21	22.28	21.80	20.74	19.81
	1 RB low	1772.5	24.32	23.33	22.28	21.85	20.86	19.81
		1745	24.20	23.45	22.42	21.73	20.98	19.95
		1717.5	24.15	23.38	22.21	21.68	20.91	19.74
	50% RB mid	1772.5	23.58	22.28	21.42	21.11	19.81	18.95
		1745	23.45	22.35	21.27	20.98	19.88	18.80
		1717.5	23.34	22.23	21.33	20.87	19.76	18.86
	100% RB	1772.5	23.44	22.25	21.48	20.97	19.78	19.01
		1745	23.28	22.36	21.49	20.81	19.89	19.02
		1717.5	23.45	22.21	21.39	20.98	19.74	18.92
20MHz	1 RB high	1770	24.30	23.40	22.48	21.83	20.93	20.01
		1745	24.21	23.42	22.46	21.74	20.95	19.99
		1720	24.15	23.34	22.36	21.68	20.87	19.89
	1 RB low	1770	24.17	23.27	22.32	21.70	20.80	19.85
		1745	24.13	23.32	22.26	21.66	20.85	19.79
		1720	24.16	23.42	22.36	21.69	20.95	19.89
	50% RB mid	1770	23.52	22.43	21.46	21.05	19.96	18.99
		1745	23.42	22.36	21.41	20.95	19.89	18.94
		1720	23.35	22.33	21.36	20.88	19.86	18.89
	100% RB	1770	23.39	22.34	21.36	20.92	19.87	18.89
		1745	23.30	22.28	21.31	20.83	19.81	18.84
		1720	23.28	22.25	21.29	20.81	19.78	18.82

LTE CA Band 7C-EIRP
Limits: ≤33dBm(2W)

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm) (MAX Gt - Lc = -1.78)
				Size	Offset	Size	Offset		
10MHz/20MHz	2525.6	2540	QPSK	1	49	1	0	24.23	22.45
			QPSK	50	0	100	0	22.14	20.36
			16QAM	1	49	1	0	23.33	21.55
			16QAM	50	0	100	0	21.16	19.38
			64QAM	1	49	1	0	21.10	19.32
			64QAM	50	0	100	0	21.15	19.37
15MHz/10MHz	2530.1	2542.1	QPSK	1	74	1	0	24.23	22.45
			QPSK	75	0	50	0	22.30	20.52
			16QAM	1	74	1	0	23.11	21.33
			16QAM	75	0	50	0	21.23	19.45
			64QAM	1	74	1	0	21.13	19.35
			64QAM	75	0	50	0	21.27	19.49
15MHz/15MHz	2527.5	2542.5	QPSK	1	74	1	0	24.36	22.58
			QPSK	75	0	75	0	22.26	20.48
			16QAM	1	74	1	0	23.42	21.64
			16QAM	75	0	75	0	21.19	19.41
			64QAM	1	74	1	0	21.15	19.37
			64QAM	75	0	75	0	21.19	19.41
15MHz/20MHz	2525.3	2542.4	QPSK	1	74	1	0	24.28	22.50
			QPSK	75	0	100	0	22.12	20.34
			16QAM	1	74	1	0	23.15	21.37
			16QAM	75	0	100	0	21.13	19.35
			64QAM	1	74	1	0	21.38	19.60
			64QAM	75	0	100	0	21.16	19.38
20MHz/10MHz	2530.1	2544.5	QPSK	1	99	1	0	24.30	22.52
			QPSK	100	0	50	0	22.23	20.45
			16QAM	1	99	1	0	23.30	21.52
			16QAM	100	0	50	0	21.18	19.40
			64QAM	1	99	1	0	21.46	19.68
			64QAM	100	0	50	0	21.22	19.44
20MHz/15MHz	2527.6	2544.7	QPSK	1	99	1	0	24.34	22.56
			QPSK	100	0	75	0	22.19	20.41
			16QAM	1	99	1	0	23.37	21.59
			16QAM	100	0	75	0	21.14	19.36
			64QAM	1	99	1	0	21.52	19.74
			64QAM	100	0	75	0	21.19	19.41
20MHz/20MHz	2525.1	2544.9	QPSK	1	99	1	0	24.37	22.59

			QPSK	100	0	100	0	22.10	20.32
			16QAM	1	99	1	0	23.38	21.60
			16QAM	100	0	100	0	21.10	19.32
			64QAM	1	99	1	0	21.52	19.74
			64QAM	100	0	100	0	21.12	19.34

LTE CA Band 38C-EIRP
Limits: ≤33dBm(2W)

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm) (MAX Gt - Lc = -1.78)
				Size	Offset	Size	Offset		
15MHz/15MHz	2587.5	2602.5	QPSK	1	74	1	0	24.27	22.49
			QPSK	75	0	75	0	22.11	20.33
			16QAM	1	74	1	0	23.09	21.31
			16QAM	75	0	75	0	21.13	19.35
			64QAM	1	74	1	0	21.31	19.53
			64QAM	75	0	75	0	21.14	19.36
20MHz/20MHz	2585.1	2604.9	QPSK	1	99	1	0	24.32	22.54
			QPSK	100	0	100	0	22.11	20.33
			16QAM	1	99	1	0	23.19	21.41
			16QAM	100	0	100	0	21.05	19.27
			64QAM	1	99	1	0	21.14	19.36
			64QAM	100	0	100	0	21.09	19.31

Note: Expanded measurement uncertainty is U = 0.578 dB, k = 2.

A.2 Emission Limit

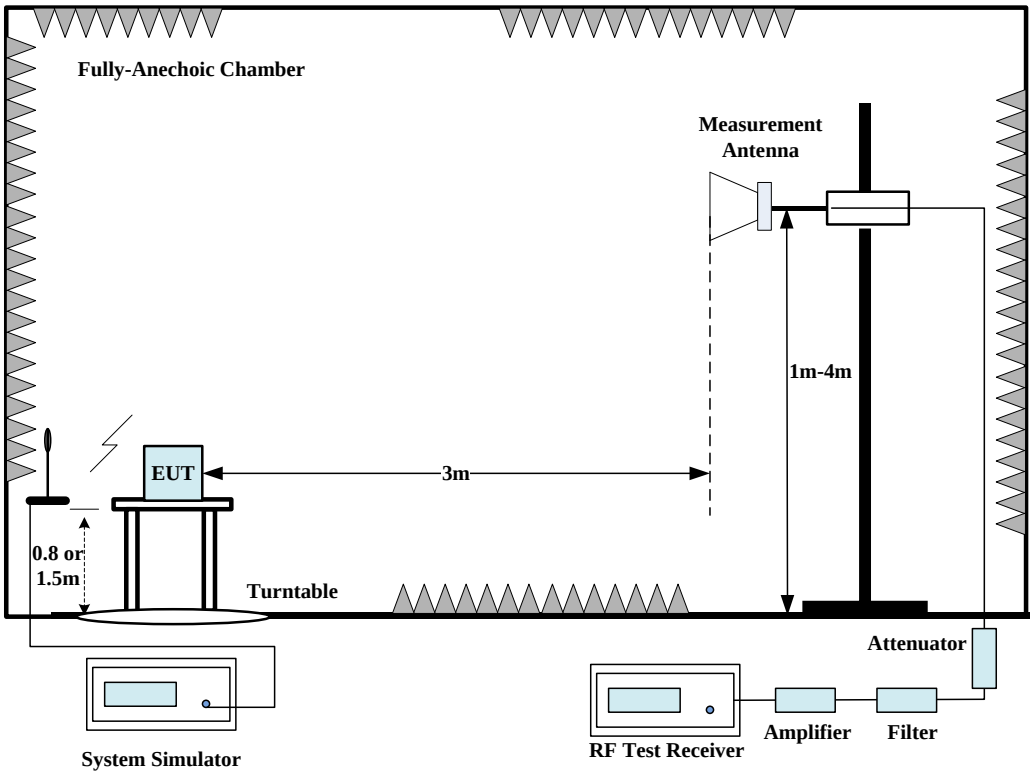
A.2.1 Measurement Method

The measurement procedures in TIA-603E-2016 are used.

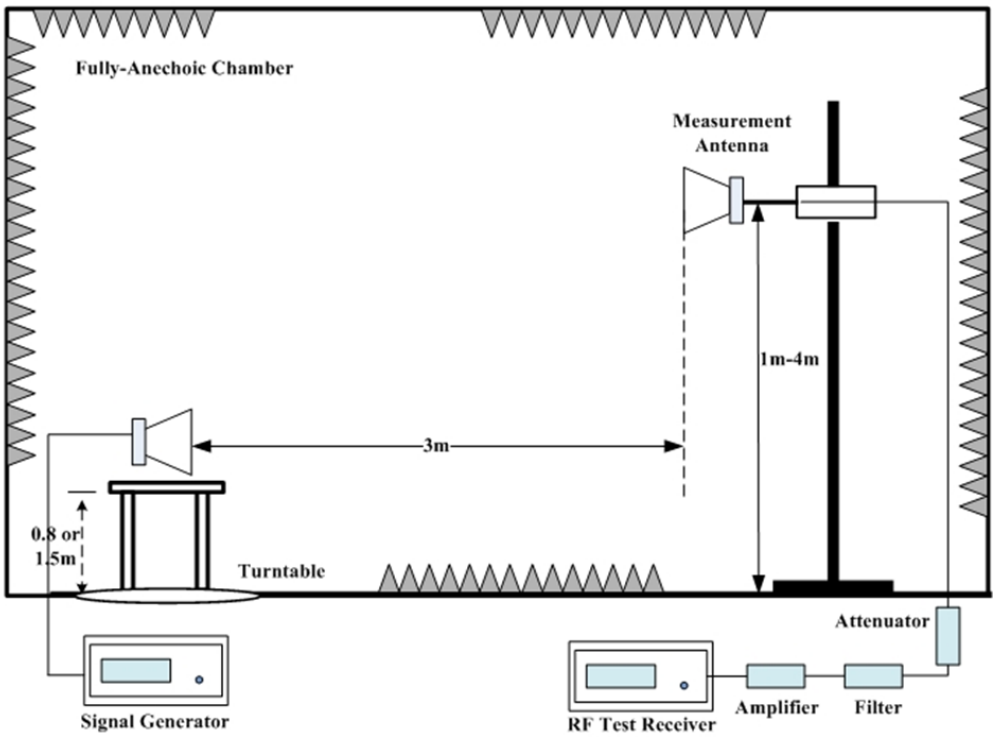
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of each LTE Band.

The procedure of radiated spurious emissions is as follows:

For measurements performed at frequencies less than or equal to 1 GHz, the EUT was placed on a 80cm-high non-conductive support; For measurements performed at frequencies above 1GHz,EUT was placed on a 1.5-meter-high non-conductive support. A measurement antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. In the initial test, the height of the measurement antenna was varied from 1 m to 4 m for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



1. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
2. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. The height of measurement antenna varied between 1 m to 4 m to maximize the received signal amplitude for each emission that was detected and measured in the initial test. A power (P_{Mea}) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test was performed with the measurement antenna in both vertical and horizontal polarization.

3. The Path loss (P_{pl}) between the Signal Source and the Substitution Antenna and the Substitution Antenna Gain (G_a) were recorded after test.A amplifier was connected in for the test. The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.
4. The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

A.2.2 Measurement Limit

FDD Band 2: Part 24.238 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FDD Band 12/13: Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in

watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

LTE Band 26(814MHz~824MHz): Part 90.691 states that out-of-band emission requirement shall apply only to the ''outer'' channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FDD Band 26(824MHz~849MHz): Part 22.917 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FDD Band 7/TDD Band 38/41: Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FDD Band 66: Part 27.53(h) specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of each LTE Band. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of each LTE Band into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The range of evaluated frequency is from 30MHz to 26GHz.

Note 1: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.
Note 2: The spurious emissions of both ANT1 and ANT4 are evaluated, only the worst cases are reported.

A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
LTE Bands	Low	9kHz-26GHz	Pass
	Middle	9kHz-26GHz	Pass
	High	9kHz-26GHz	Pass

A.2.5 Sweep Table

Subrange	RBW	VBW
9~150 kHz	0.2kHz	0.6kHz
150kHz~30MHz	9kHz	27kHz
30MHz~1 GHz	100KHz	300KHz
1~20 GHz	1 MHz	3 MHz

A.2.6 Measurement Result

LTE Band 2, 1.4MHz,CH18607,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.50	-58.64	3.47	10.39	-51.72	-13.00	38.72	V
5552.50	-58.58	5.33	11.20	-52.71	-13.00	39.71	H
7403.50	-48.90	8.08	10.10	-46.88	-13.00	33.88	V
9250.50	-49.58	8.85	11.70	-46.73	-13.00	33.73	V
11091.50	-49.31	9.65	12.59	-46.37	-13.00	33.37	H
12946.00	-48.55	12.48	12.75	-48.28	-13.00	35.28	V

LTE Band 2, 1.4MHz,CH18900,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3759.50	-58.19	3.82	10.16	-51.85	-13.00	38.85	V
5640.00	-58.05	5.61	11.38	-52.28	-13.00	39.28	H
7527.50	-49.94	7.71	10.26	-47.39	-13.00	34.39	V
9396.00	-49.21	9.11	11.50	-46.82	-13.00	33.82	H
11293.00	-47.34	10.62	12.61	-45.35	-13.00	32.35	V
13164.50	-44.22	13.20	12.54	-44.88	-13.00	31.88	V

LTE Band 2, 1.4MHz,CH19193,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3819.00	-56.72	3.93	9.96	-50.69	-13.00	37.69	V
5728.00	-56.20	5.89	11.34	-50.75	-13.00	37.75	H
7630.50	-51.61	6.72	10.36	-47.97	-13.00	34.97	V
9541.00	-50.40	9.12	11.88	-47.64	-13.00	34.64	H
11446.00	-47.14	12.40	12.55	-46.99	-13.00	33.99	V
13351.00	-43.54	13.12	12.45	-44.21	-13.00	31.21	V

LTE Band 7, 5MHz,CH20775,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.50	-57.79	5.15	11.33	-51.61	-25.00	26.61	H
7508.00	-40.03	7.70	10.22	-37.51	-25.00	12.51	V
10012.00	-49.39	9.35	11.79	-46.95	-25.00	21.95	H
12502.50	-48.82	12.35	13.59	-47.58	-25.00	22.58	V
15016.00	-46.65	14.74	14.65	-46.74	-25.00	21.74	H
17513.50	-35.98	19.71	13.11	-42.58	-25.00	17.58	H

LTE Band 7, 5MHz,CH21100,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.50	-57.46	5.30	11.60	-51.16	-25.00	26.16	H
7605.00	-41.27	7.58	10.31	-38.54	-25.00	13.54	V
10129.00	-50.56	8.93	11.76	-47.73	-25.00	22.73	H
12669.50	-48.87	11.67	13.16	-47.38	-25.00	22.38	H
15211.50	-44.17	15.10	15.02	-44.25	-25.00	19.25	H
17747.50	-36.25	19.56	13.45	-42.36	-25.00	17.36	H

LTE Band 7, 5MHz,CH21425,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.50	-57.57	5.55	11.60	-51.52	-25.00	26.52	H
7703.00	-46.12	6.72	10.61	-42.23	-25.00	17.23	H
10262.50	-48.41	10.82	11.90	-47.33	-25.00	22.33	V
12851.50	-46.98	12.94	12.90	-47.02	-25.00	22.02	V
15406.50	-45.08	14.90	15.41	-44.57	-25.00	19.57	H
17973.00	-35.33	19.99	13.45	-41.87	-25.00	16.87	H

LTE Band 12, 1.4MHz,CH23017,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2099.50	-48.96	3.52	7.80	2.15	-46.83	-13.00	33.83	H
2806.00	-47.99	5.23	10.41	2.15	-44.96	-13.00	31.96	V
3498.50	-50.92	2.98	10.10	2.15	-45.95	-13.00	32.95	V
4199.00	-45.76	4.16	10.10	2.15	-41.97	-13.00	28.97	H
6308.00	-53.36	5.86	10.82	2.15	-50.55	-13.00	37.55	V
7011.50	-49.30	7.64	10.42	2.15	-48.67	-13.00	35.67	V

LTE Band 12, 1.4MHz,CH23095,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2123.00	-47.24	3.72	8.17	2.15	-44.94	-13.00	31.94	H
2829.00	-46.57	5.03	10.46	2.15	-43.29	-13.00	30.29	H
3537.50	-50.62	3.28	10.25	2.15	-45.80	-13.00	32.80	H
4245.00	-44.43	4.94	10.28	2.15	-41.24	-13.00	28.24	H
6358.00	-53.09	5.94	10.92	2.15	-50.26	-13.00	37.26	H
7069.00	-49.73	6.86	10.42	2.15	-48.32	-13.00	35.32	V

LTE Band 12, 1.4MHz,CH23173,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2146.50	-47.90	3.71	8.54	2.15	-45.22	-13.00	32.22	H
2854.00	-47.05	5.06	10.52	2.15	-43.74	-13.00	30.74	V
3576.50	-52.63	3.06	10.41	2.15	-47.43	-13.00	34.43	H
4292.50	-47.32	4.65	10.56	2.15	-43.56	-13.00	30.56	H
6444.00	-52.12	6.82	10.82	2.15	-50.27	-13.00	37.27	V
7151.50	-50.60	6.69	10.19	2.15	-49.25	-13.00	36.25	H

LTE Band 13, 5MHz,CH23205,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1554.34	-53.82	3.47	5.40	2.15	-54.04	-13.00	41.04	H
2339.25	-37.13	4.44	5.62	2.15	-38.10	-13.00	25.10	H
3117.50	-50.69	5.38	7.28	2.15	-50.94	-13.00	37.94	H
3897.50	-52.38	6.11	8.76	2.15	-51.88	-13.00	38.88	H
4677.50	-51.78	6.49	9.58	2.15	-50.84	-13.00	37.84	H
5460.00	-52.92	6.91	10.54	2.15	-51.44	-13.00	38.44	H

LTE Band 13, 5MHz,CH23230,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.00	-54.94	3.47	5.39	0.00	-55.17	-40.00	15.17	H
2346.70	-34.53	4.45	5.64	2.15	-35.49	-13.00	22.49	V
3127.50	-52.60	5.40	7.31	2.15	-52.84	-13.00	39.84	H
3910.00	-51.32	6.12	8.77	2.15	-50.82	-13.00	37.82	H
4692.50	-51.60	6.50	9.59	2.15	-50.66	-13.00	37.66	V
5472.50	-53.46	6.96	10.56	2.15	-52.01	-13.00	39.01	V

LTE Band 13, 5MHz,CH23255,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1555.27	-53.60	3.47	5.40	2.15	-53.82	-13.00	40.82	H
2354.15	-34.33	4.46	5.66	2.15	-35.28	-13.00	22.28	V
3137.50	-49.88	5.39	7.33	2.15	-50.09	-13.00	37.09	H
3922.50	-47.73	6.12	8.79	2.15	-47.21	-13.00	34.21	V
4707.50	-50.66	6.51	9.61	2.15	-49.71	-13.00	36.71	V
5482.50	-52.98	6.99	10.58	2.15	-51.54	-13.00	38.54	V

LTE Band 26(824MHz~849MHz), 1.4MHz,CH26797,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2474.50	-44.83	4.33	10.35	2.15	-40.96	-13.00	27.96	V
3299.00	-47.90	3.56	10.40	2.15	-43.21	-13.00	30.21	V
4124.00	-47.03	4.72	10.05	2.15	-43.85	-13.00	30.85	H
6595.00	-50.99	7.14	10.33	2.15	-49.95	-13.00	36.95	H
7412.00	-46.74	8.03	10.10	2.15	-46.82	-13.00	33.82	H
8234.50	-48.95	7.62	11.20	2.15	-47.52	-13.00	34.52	V

LTE Band 26(824MHz~849MHz), 1.4MHz,CH26915,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2509.50	-45.40	4.42	10.30	2.15	-41.67	-13.00	28.67	V
3345.50	-49.21	3.46	10.22	2.15	-44.60	-13.00	31.60	V
4183.00	-44.30	4.07	10.07	2.15	-40.45	-13.00	27.45	H
6689.00	-51.10	6.19	10.48	2.15	-48.96	-13.00	35.96	V
7540.00	-46.60	7.47	10.28	2.15	-45.94	-13.00	32.94	H
8351.50	-48.28	8.28	11.30	2.15	-47.41	-13.00	34.41	V

LTE Band 26(824MHz~849MHz), 1.4MHz,CH27033,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2545.50	-46.82	4.61	10.30	2.15	-43.28	-13.00	30.28	V
3393.50	-48.51	3.53	10.03	2.15	-44.16	-13.00	31.16	V
4242.00	-46.11	4.43	10.27	2.15	-42.42	-13.00	29.42	H
6791.00	-51.29	6.39	10.38	2.15	-49.45	-13.00	36.45	H
7627.50	-49.47	6.70	10.36	2.15	-47.96	-13.00	34.96	H
8490.00	-47.34	8.85	11.30	2.15	-47.04	-13.00	34.04	V

LTE Band 26(814MHz~824MHz), 1.4MHz,CH26697,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2444.50	-40.52	4.55	10.38	2.15	-36.84	-13.00	23.84	V
3259.00	-54.82	2.98	10.40	2.15	-49.55	-13.00	36.55	V
4073.50	-51.03	4.35	10.05	2.15	-47.48	-13.00	34.48	H
6518.00	-51.94	6.27	10.60	2.15	-49.76	-13.00	36.76	H
7330.00	-47.56	7.74	9.90	2.15	-47.55	-13.00	34.55	H
8133.00	-47.92	8.24	11.13	2.15	-47.18	-13.00	34.18	H

LTE Band 26(814MHz~824MHz), 1.4MHz,CH26740,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2457.50	-41.52	4.42	10.38	2.15	-37.71	-13.00	24.71	V
3276.50	-49.47	3.06	10.40	2.15	-44.28	-13.00	31.28	V
4095.00	-52.09	3.92	10.09	2.15	-48.07	-13.00	35.07	H
6556.00	-51.85	6.32	10.56	2.15	-49.76	-13.00	36.76	H
7385.50	-46.86	8.18	10.04	2.15	-47.15	-13.00	34.15	V
8175.50	-48.99	7.21	11.15	2.15	-47.20	-13.00	34.20	H

LTE Band 26(814MHz~824MHz), 1.4MHz,CH26783,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2470.00	-44.32	4.32	10.36	2.15	-40.43	-13.00	27.43	V
3293.50	-48.61	3.61	10.40	2.15	-43.97	-13.00	30.97	V
4117.00	-48.47	4.06	10.07	2.15	-44.61	-13.00	31.61	H
6593.50	-50.33	7.15	10.34	2.15	-49.29	-13.00	36.29	H
7408.00	-46.74	8.05	10.10	2.15	-46.84	-13.00	33.84	V
8220.50	-48.66	7.52	11.20	2.15	-47.13	-13.00	34.13	V

LTE Band 41, 5MHz,CH39675,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.50	-52.11	5.17	11.30	-45.98	-25.00	20.98	H
7496.00	-40.05	7.70	10.19	-37.56	-25.00	12.56	H
9999.50	-49.10	9.36	11.80	-46.66	-25.00	21.66	H
12503.50	-48.48	12.36	13.59	-47.25	-25.00	22.25	V
15003.00	-47.00	14.75	14.61	-47.14	-25.00	22.14	H
17502.00	-35.47	19.72	13.10	-42.09	-25.00	17.09	H

LTE Band 41, 5MHz,CH40620,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.00	-57.77	5.75	11.67	-51.85	-25.00	26.85	V
7779.00	-47.91	7.37	10.76	-44.52	-25.00	19.52	H
10372.50	-42.58	10.73	11.97	-41.34	-25.00	16.34	H
12956.00	-48.87	12.50	12.74	-48.63	-25.00	23.63	V
15569.00	-47.41	16.65	15.60	-48.46	-25.00	23.46	V
17983.50	-35.58	19.97	13.43	-42.12	-25.00	17.12	H

LTE Band 41, 5MHz,CH41565,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.50	-54.36	5.74	11.65	-48.45	-25.00	23.45	H
8063.00	-41.14	7.86	11.13	-37.87	-25.00	12.87	V
10751.00	-48.73	9.83	12.15	-46.41	-25.00	21.41	V
13439.00	-43.51	12.56	12.36	-43.71	-25.00	18.71	V
16111.00	-45.26	17.09	15.10	-47.25	-25.00	22.25	H
17989.00	-35.56	19.96	13.42	-42.10	-25.00	17.10	H

LTE Band 66, 1.4MHz,CH131979,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
8555.50	-60.91	8.52	11.20	-58.23	-13.00	45.23	H
10275.50	-58.24	10.72	11.90	-57.06	-13.00	44.06	V
11971.50	-57.26	12.30	13.04	-56.52	-13.00	43.52	V
13683.50	-54.29	12.99	12.20	-55.08	-13.00	42.08	H
15384.00	-56.74	14.86	15.37	-56.23	-13.00	43.23	H
17093.00	-48.79	18.46	13.51	-53.74	-13.00	40.74	H

LTE Band 66, 1.4MHz,CH132322,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
8726.50	-60.75	8.45	11.10	-58.10	-13.00	45.10	H
10464.00	-56.34	10.35	11.94	-54.75	-13.00	41.75	H
12225.00	-58.16	12.16	13.40	-56.92	-13.00	43.92	H
13946.00	-53.93	14.71	12.15	-56.49	-13.00	43.49	H
15706.00	-56.06	16.64	15.51	-57.19	-13.00	44.19	H
17437.00	-45.98	19.25	13.04	-52.19	-13.00	39.19	H

LTE Band 66, 1.4MHz,CH132665,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
8904.50	-61.54	8.05	11.60	-57.99	-13.00	44.99	V
10686.00	-60.25	10.01	12.09	-58.17	-13.00	45.17	H
12458.00	-58.39	12.88	13.52	-57.75	-13.00	44.75	V
14236.00	-55.53	13.14	12.64	-56.03	-13.00	43.03	H
16027.00	-55.64	17.42	15.32	-57.74	-13.00	44.74	V
17796.50	-47.55	19.55	13.50	-53.60	-13.00	40.60	H

LTE CA Band 7C, CH20805_CH20949,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5000.16	-56.55	6.60	9.90	-53.25	-25.00	28.25	H
7516.88	-50.36	8.32	12.21	-46.47	-25.00	21.47	V
10053.75	-50.70	9.33	12.92	-47.11	-25.00	22.11	H
12540.47	-49.53	10.29	13.22	-46.60	-25.00	21.60	H
15095.63	-48.59	11.35	13.94	-46.00	-25.00	21.00	V
17612.34	-42.61	12.99	15.06	-40.54	-25.00	15.54	H

LTE CA Band 7C, CH21006_CH21150,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5089.22	-56.05	6.74	10.02	-52.77	-25.00	27.77	V
7576.88	-49.26	8.07	12.26	-45.07	-25.00	20.07	H
10113.28	-50.94	9.44	12.95	-47.43	-25.00	22.43	V
12666.56	-49.65	10.35	13.30	-46.70	-25.00	21.70	H
15192.19	-48.70	11.40	13.88	-46.22	-25.00	21.22	H
17740.31	-43.65	12.41	15.24	-40.82	-25.00	15.82	H

LTE CA Band 7C, CH21206_CH21350,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5130.00	-56.56	6.85	10.08	-53.33	-25.00	28.33	V
7636.88	-52.27	8.14	12.31	-48.10	-25.00	23.10	H
10235.63	-50.43	9.42	12.99	-46.86	-25.00	21.86	H
12759.84	-49.29	10.58	13.36	-46.51	-25.00	21.51	V
15344.06	-48.75	11.33	13.79	-46.29	-25.00	21.29	V
17883.75	-43.45	12.85	15.44	-40.86	-25.00	15.86	H

LTE CA Band 38C, CH37825_CH37975,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5146.41	-56.94	6.88	10.10	-53.72	-25.00	28.72	H
7785.47	-53.07	8.31	12.43	-48.95	-25.00	23.95	V
10360.31	-48.61	9.74	13.04	-45.31	-25.00	20.31	V
12903.28	-50.67	10.51	13.44	-47.74	-25.00	22.74	H
15493.59	-47.98	11.53	13.70	-45.81	-25.00	20.81	H
16807.97	-43.66	12.11	13.72	-42.05	-25.00	17.05	H

LTE CA Band 38C, CH37925_CH38075,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5185.78	-56.51	6.94	10.16	-53.29	-25.00	28.29	H
7780.31	-53.03	8.31	12.42	-48.92	-25.00	23.92	V
10360.31	-48.69	9.74	13.04	-45.39	-25.00	20.39	H
12980.63	-50.47	10.47	13.49	-47.45	-25.00	22.45	H
15572.81	-48.37	11.50	13.70	-46.17	-25.00	21.17	V
16881.56	-43.48	12.02	13.75	-41.75	-25.00	16.75	V

LTE CA Band 38C, CH38025_CH38175,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5223.28	-55.93	7.00	10.21	-52.72	-25.00	27.72	V
7792.97	-51.19	8.30	12.43	-47.06	-25.00	22.06	H
10440.94	-48.73	9.74	13.08	-45.39	-25.00	20.39	V
13034.06	-49.97	10.63	13.55	-47.05	-25.00	22.05	V
15617.81	-47.24	11.51	13.70	-45.05	-25.00	20.05	H
16902.66	-43.78	12.01	13.76	-42.03	-25.00	17.03	H

Note: Peak EIRP (dBm) = PMea(dBm) - Path Loss(dB) + Antenna Gain(dBi)

Note: Expanded measurement uncertainty is U = 3.44 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℃.
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℃ increments from -30℃ to +50℃. 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℃.
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 ℃ decrements from +50℃ to -30℃. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5℃ 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(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	1850.801	1909.199	33.96	0.0181
50				-2.02	0.0011
40				-0.53	0.0003
30				45.52	0.0242
10				0.17	0.0001
0				-2.16	0.0011
-10				-3.50	0.0019
-20				-3.38	0.0018
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.801	1909.199	-0.79	0.0004
4.5				-2.35	0.0013

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

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	2500.577	2569.423	-3.52	0.0014
50				37.91	0.0150
40				-1.42	0.0006
30				37.89	0.0149
10				-5.49	0.0022
0				-4.79	0.0019
-10				42.69	0.0168
-20				-3.79	0.0015
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.577	2569.423	1.26	0.0005
4.5				-5.49	0.0022

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

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	699.481	715.519	-1.79	0.0025
50				-0.74	0.0010
40				-1.17	0.0017
30				-1.10	0.0016
10				-9.20	0.0130
0				0.16	0.0002
-10				-5.12	0.0072
-20				-2.42	0.0034
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	699.481	715.519	-0.79	0.0011
4.5				-2.49	0.0035

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

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	777.465	786.535	-1.27	0.0016
50				0.04	0.0001
40				-0.34	0.0004
30				-0.47	0.0006
10				-4.65	0.0059
0				-2.62	0.0034
-10				0.10	0.0001
-20				-1.10	0.0014
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	777.465	786.535	0.84	0.0011
4.5				-2.72	0.0035

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

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	814.389	823.611	13.95	0.0170
50				-0.43	0.0005
40				-1.34	0.0016
30				-1.09	0.0013
10				-0.80	0.0010
0				-0.69	0.0008
-10				-1.67	0.0020
-20				-2.16	0.0026
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.389	823.611	2.37	0.0029
4.5				0.82	0.0010

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

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	824.553	848.447	2.32	0.0028
50				-7.97	0.0095
40				-0.01	0.0000
30				0.39	0.0005
10				-0.64	0.0008
0				-3.12	0.0037
-10				-0.37	0.0004
-20				-1.26	0.0015
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.553	848.447	0.34	0.0004
4.5				-0.03	0.0000

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

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	2496.417	2689.455		
50				2.19	0.0008
40				5.25	0.0020
30				37.42	0.0144
10				-4.68	0.0018
0				40.05	0.0154
-10				3.00	0.0012
-20				36.32	0.0140
-30				2.19	0.0008

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.417	2689.455	1.04	0.0004
4.5				1.54	0.0006

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

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	1710.801	1779.199		
50				-28.60	0.0164
40				-28.80	0.0165
30				-29.30	0.0168
10				2.29	0.0013
0				-29.27	0.0168
-10				-30.53	0.0175
-20				-48.38	0.0277
-30				-33.26	0.0191

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F_L(MHz)	F_H(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.801	1779.199	-0.44	0.0003
4.5				1.13	0.0006

LTE CA band 7C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Voltage

Temperature(℃)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	2500.440	2569.600		
50				3.23	0.0013
40				7.61	0.0030
30				7.65	0.0030
10				6.45	0.0025
0				6.28	0.0025
-10				6.61	0.0026
-20				9.73	0.0038
-30				8.13	0.0032

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.440	2569.600	6.92	0.0027
4.5				6.18	0.0024

LTE CA band 38C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Voltage

Temperature(℃)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.91	2570.440	2619.540		
50				-0.77	0.0003
40				0.90	0.0003
30				0.67	0.0003
10				-1.35	0.0005
0				-1.62	0.0006
-10				0.49	0.0002
-20				0.90	0.0003
-30				0.17	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2570.440	2619.540	-0.56	0.0002
4.5				-0.27	0.0001

Note: Expanded measurement uncertainty is U = 0.01 PPM, *k* = 2.

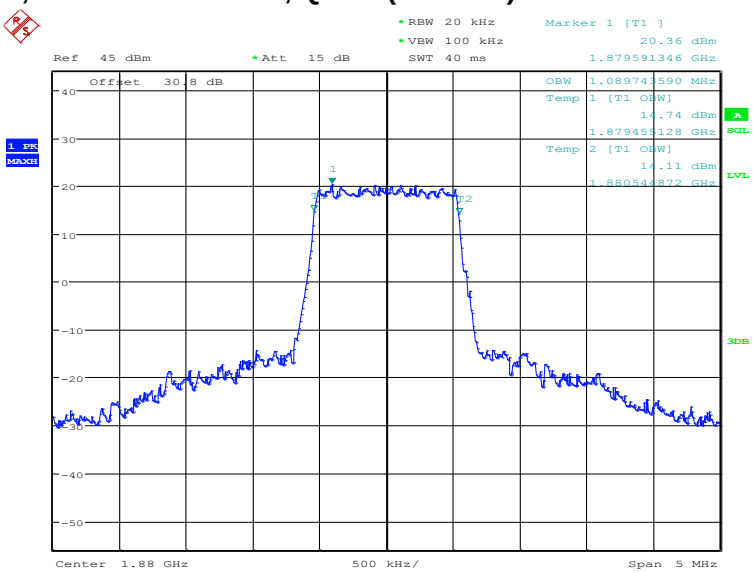
A.4 Occupied Bandwidth

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 ≥ 3 × 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%)

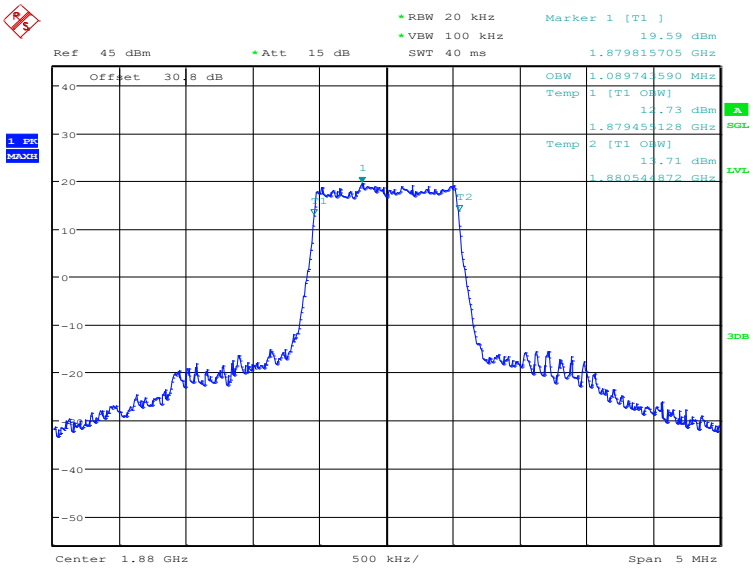
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	1089.74	1089.74

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



Date: 9.SEP.2024 12:03:02

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

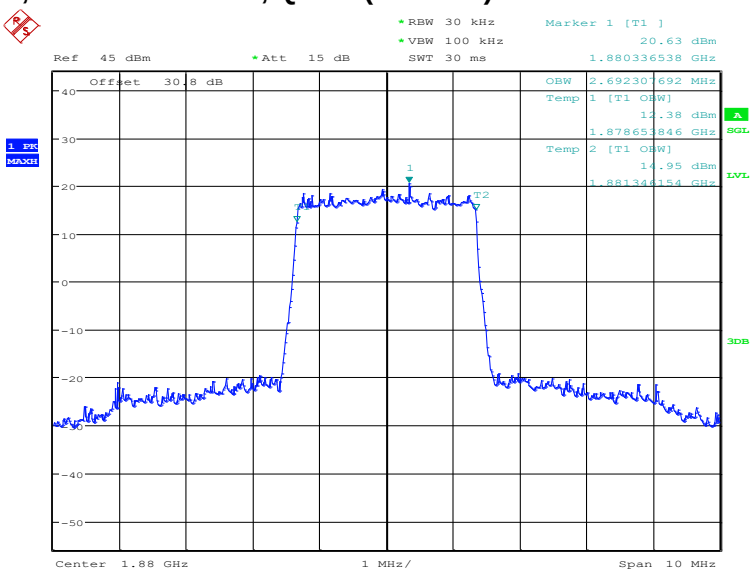


Date: 9.SEP.2024 12:03:42

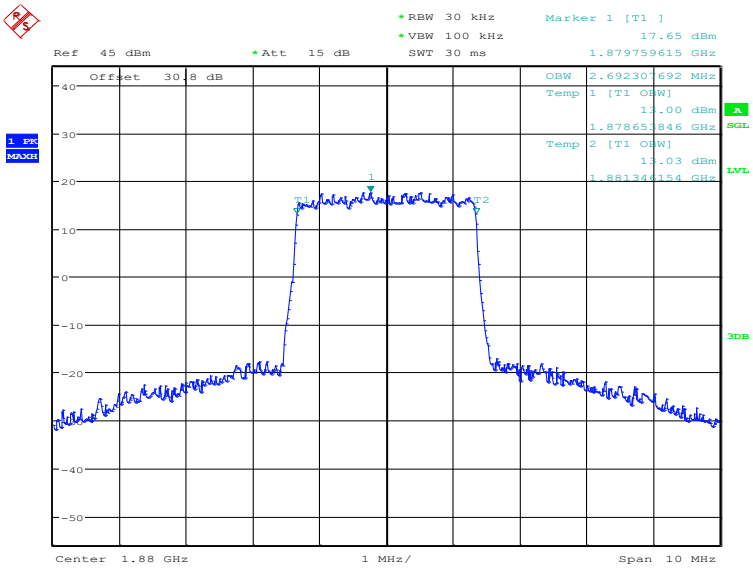
LTE band 2, 3MHz (99%)

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

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



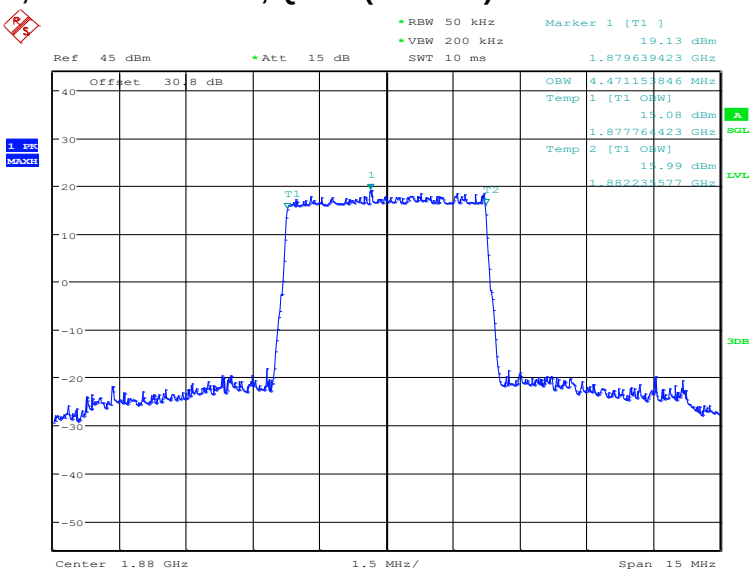
LTE band 2, 3MHz Bandwidth, 16QAM (99% BW)



LTE band 2, 5MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	4471.15	4471.15

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



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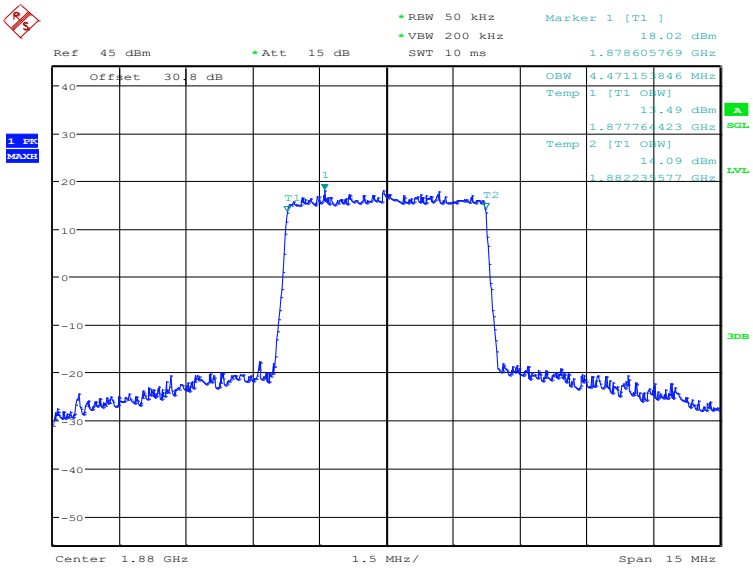
LTE band 2, 5MHz Bandwidth, 16QAM (99% BW)

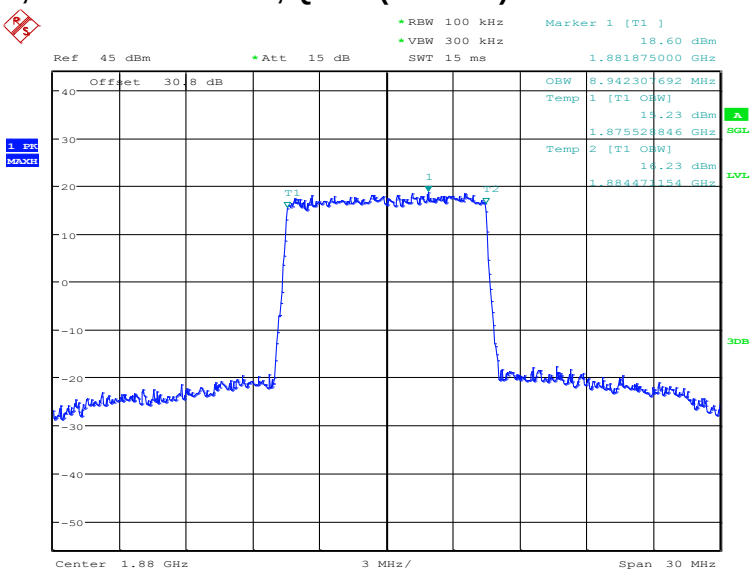


Date: 9.SEP.2024 12:06:27

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)



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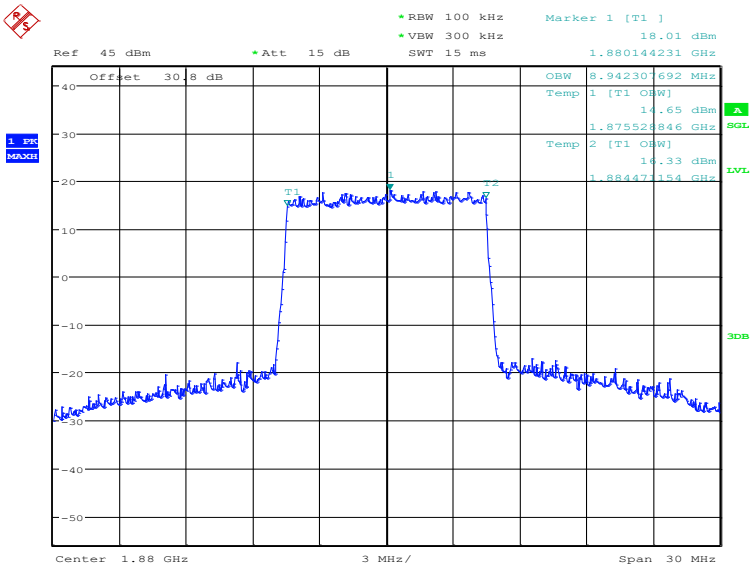
LTE band 2, 10MHz Bandwidth, 16QAM (99% BW)

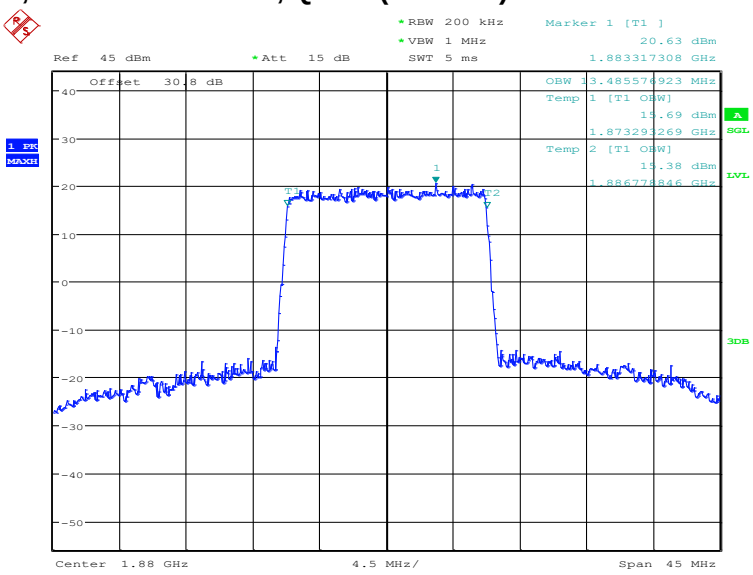


Date: 9.SEP.2024 12:07:49

LTE band 2, 15MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	13485.58	13413.46

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



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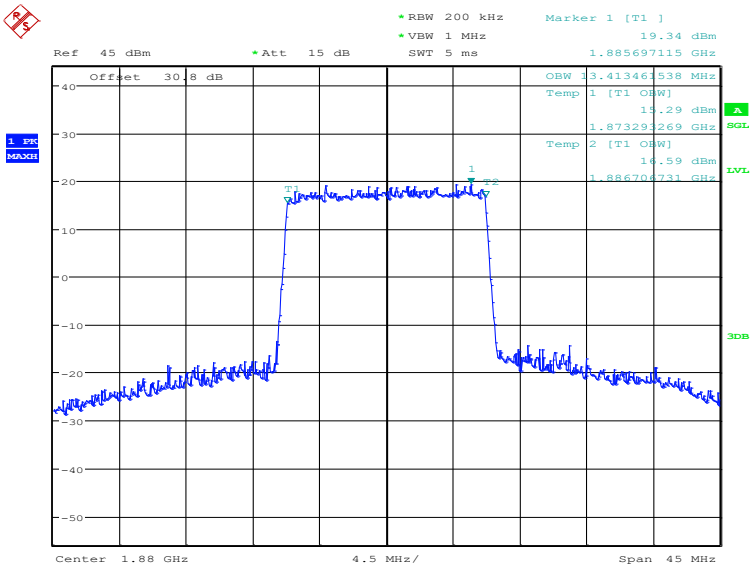
LTE band 2, 15MHz Bandwidth, 16QAM (99% BW)

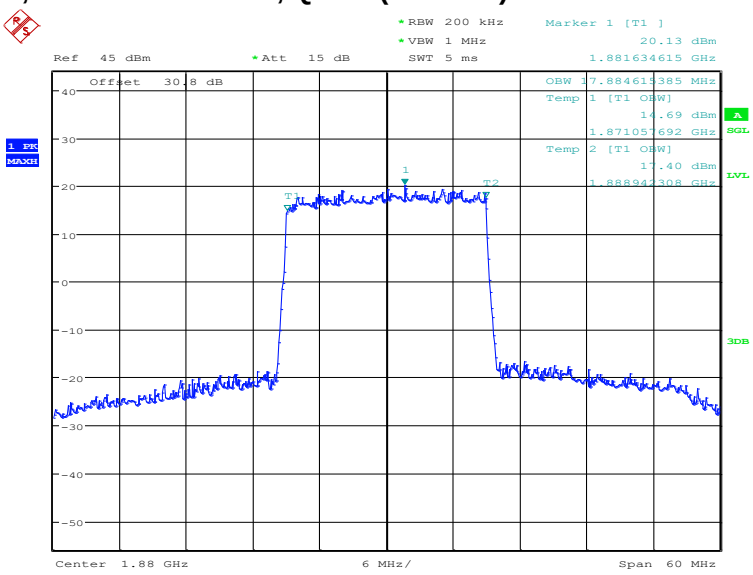


Date: 9.SEP.2024 12:09:11

LTE band 2, 20MHz (99%)

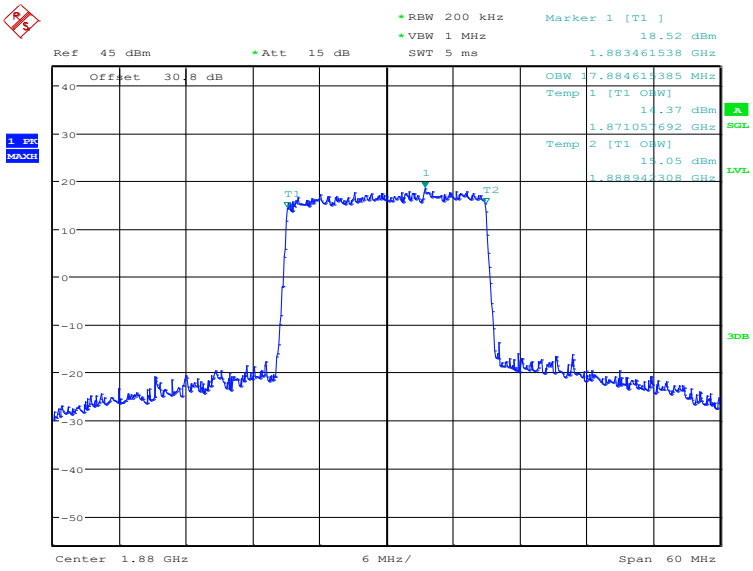
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	17884.62	17884.62

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



Date: 9.SEP.2024 12:09:53

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

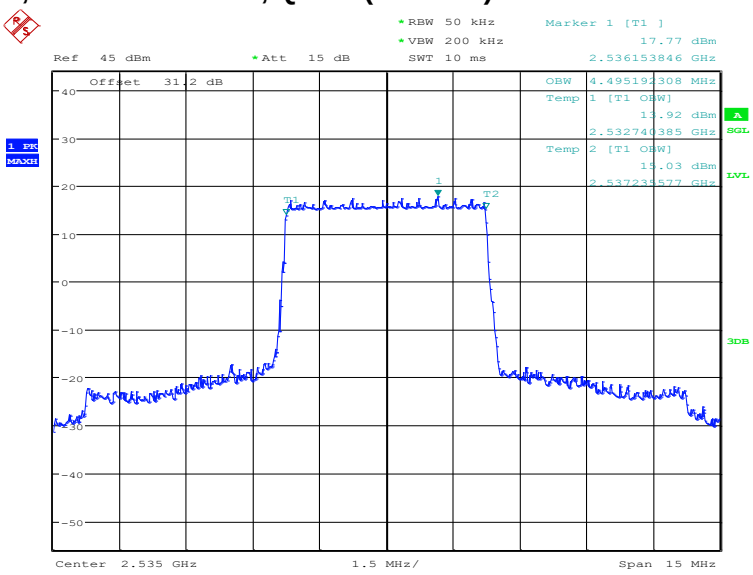


Date: 9.SEP.2024 12:10:37

LTE band 7, 5MHz (99%)

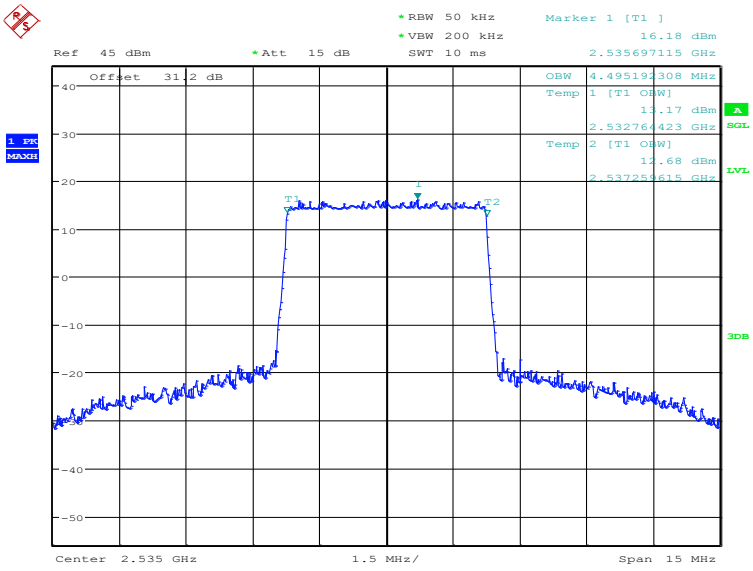
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 9.SEP.2024 12:11:20

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

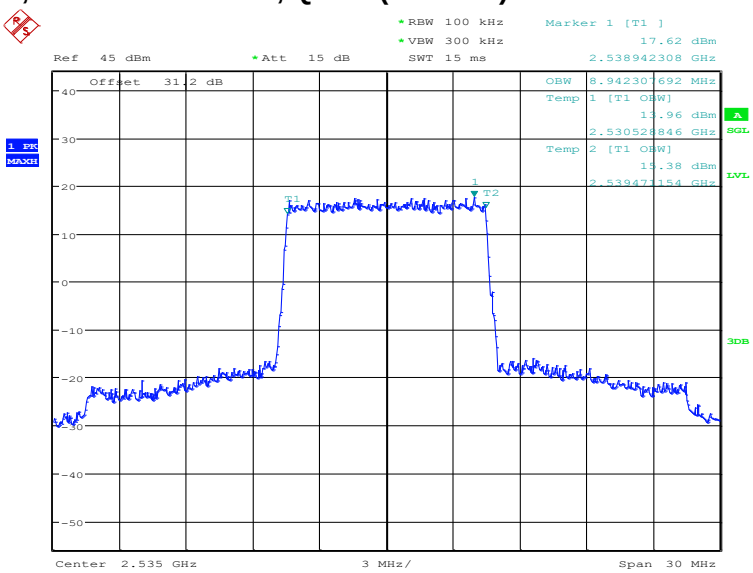


Date: 9.SEP.2024 12:12:02

LTE band 7, 10MHz (99%)

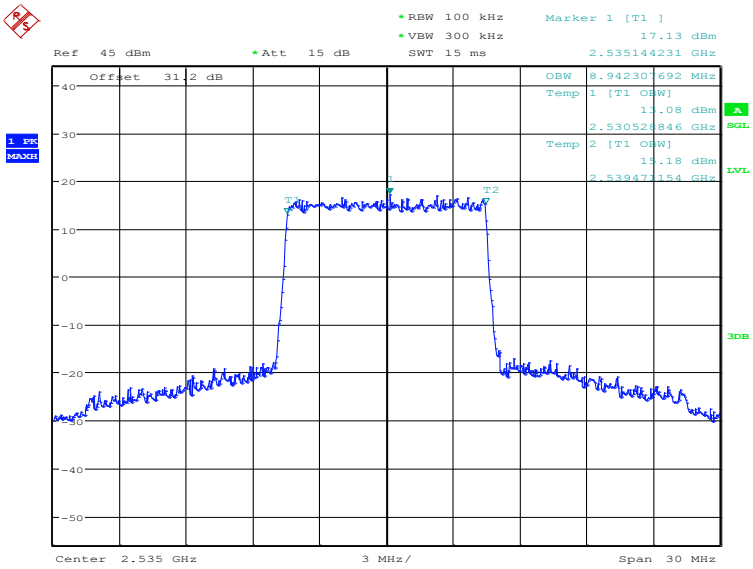
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 9.SEP.2024 12:12:50

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

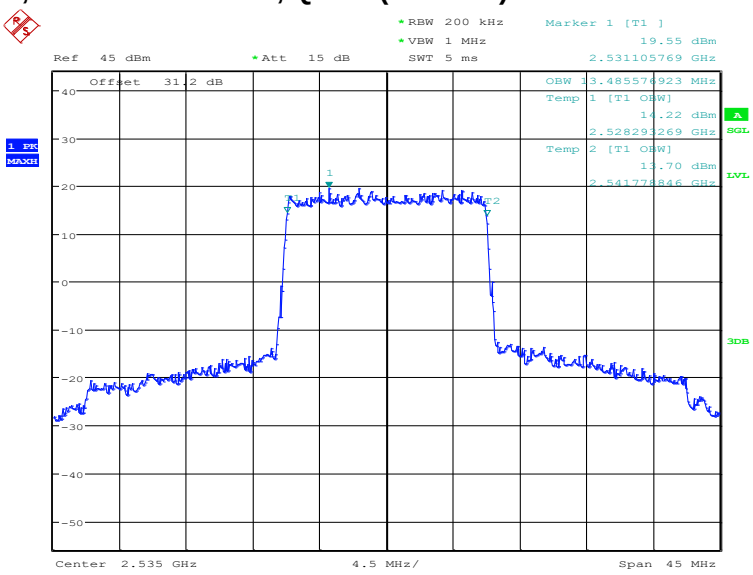


Date: 9.SEP.2024 12:13:30

LTE band 7, 15MHz (99%)

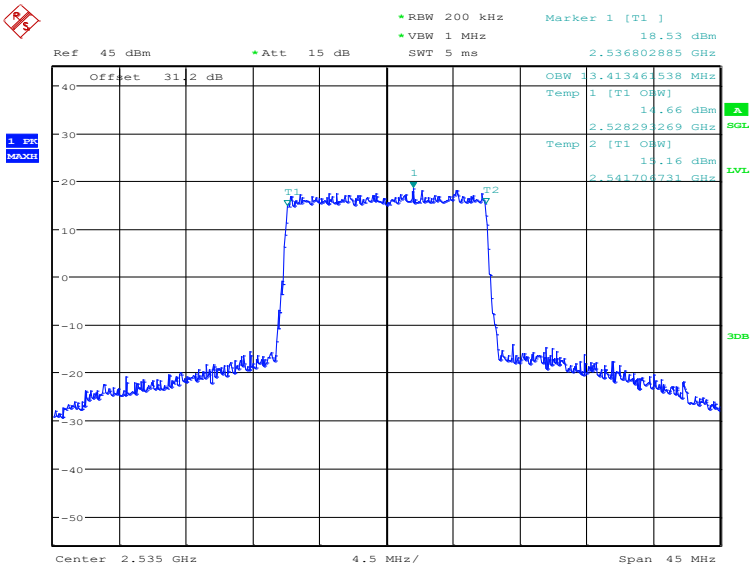
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13413.46

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



Date: 9.SEP.2024 12:14:12

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

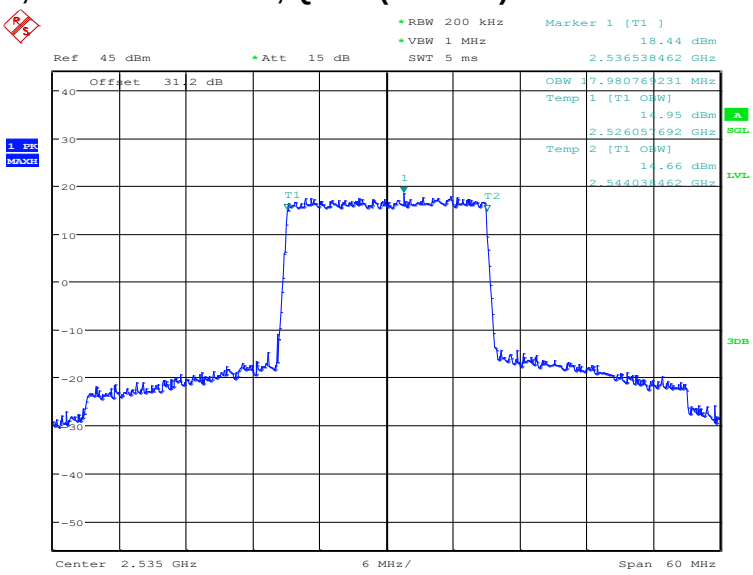


Date: 9.SEP.2024 12:14:52

LTE band 7, 20MHz (99%)

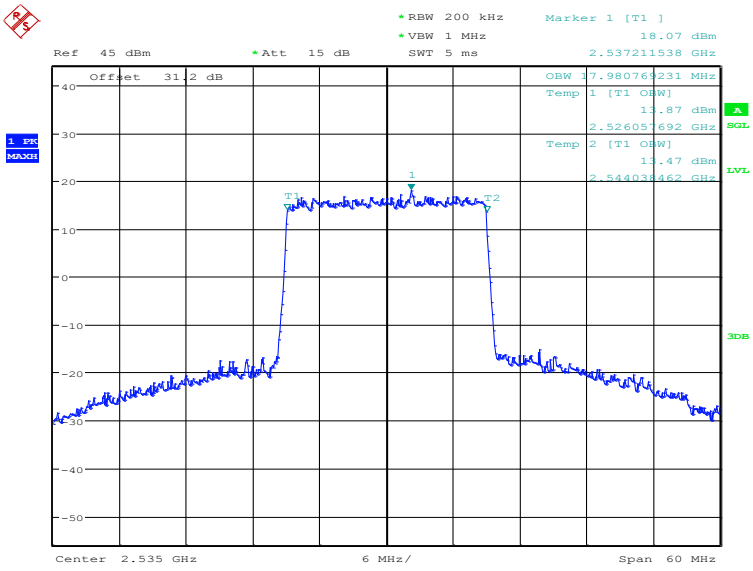
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 9.SEP.2024 12:15:35

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

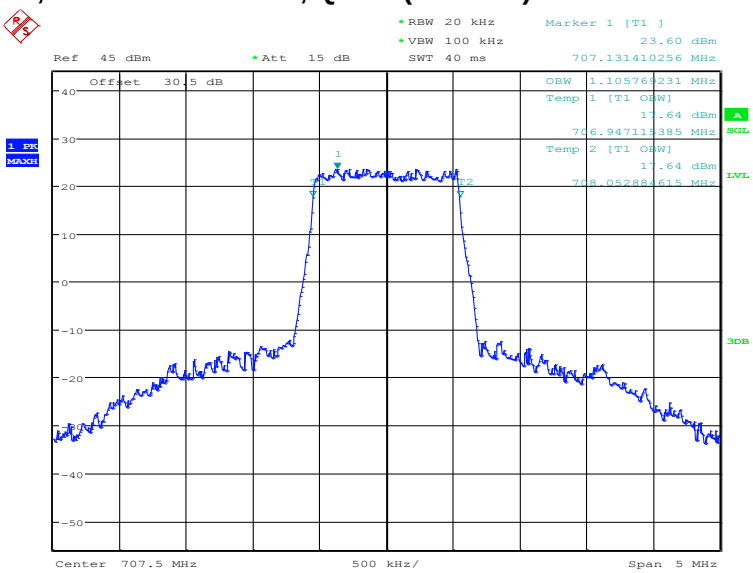


Date: 9.SEP.2024 12:16:15

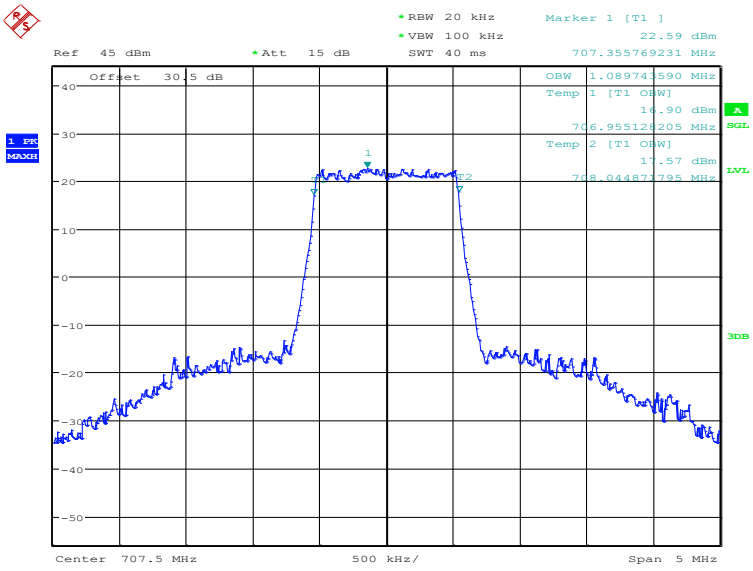
LTE band 12, 1.4MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1105.77	1089.74

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



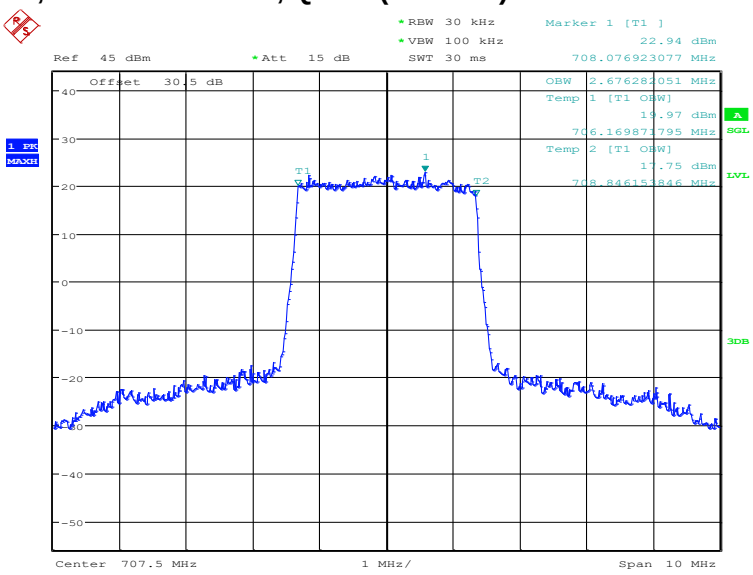
LTE band 12, 1.4MHz Bandwidth, 16QAM (99% BW)



LTE band 12, 3MHz (99%)

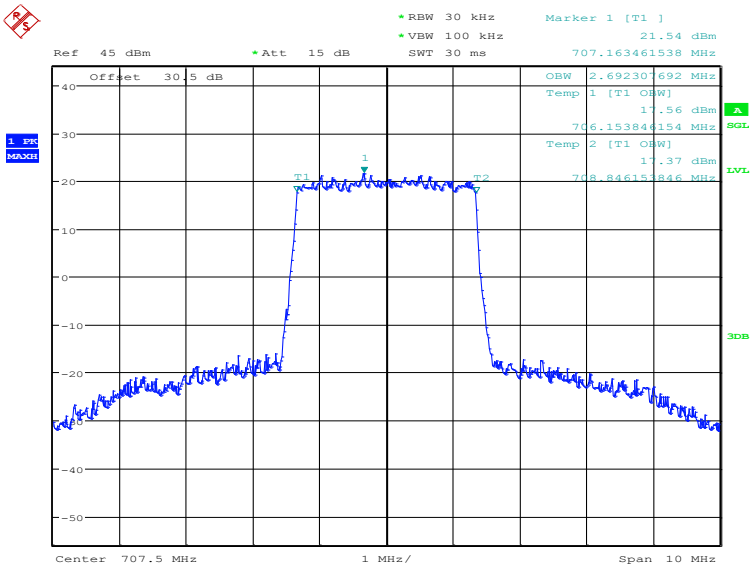
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2676.28	2692.31

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



Date: 9.SEP.2024 12:19:16

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

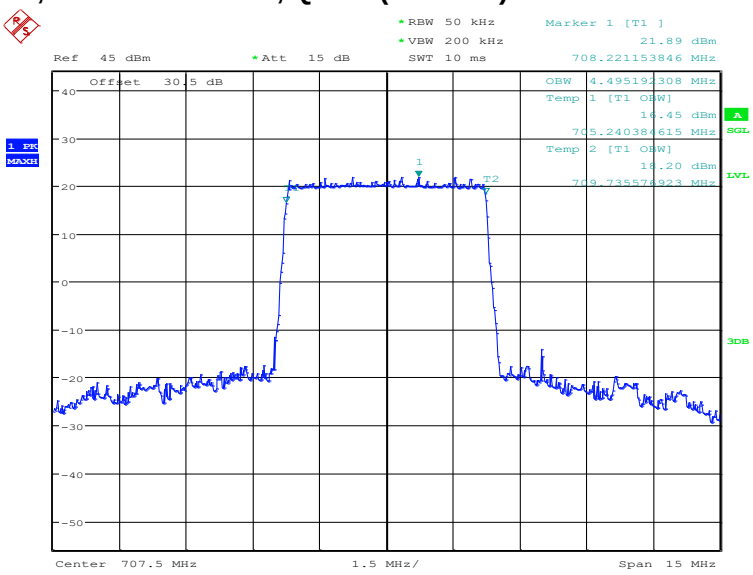


Date: 9.SEP.2024 12:19:56

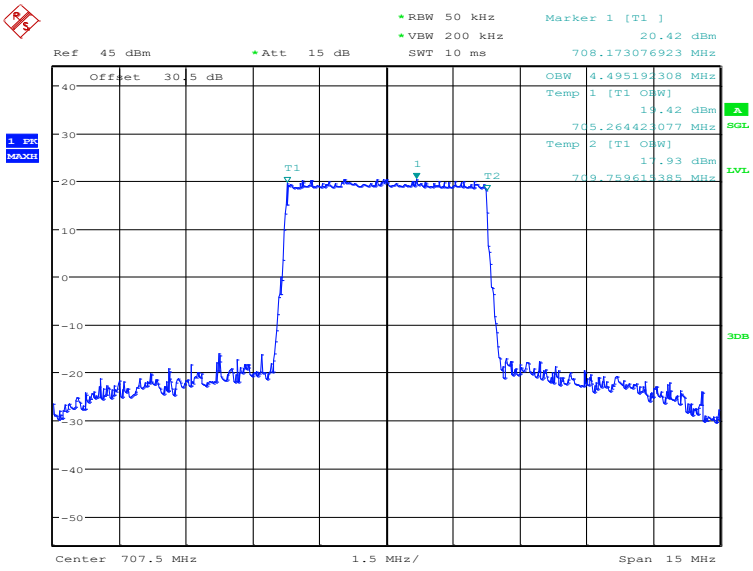
LTE band 12, 5MHz (99%)

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

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



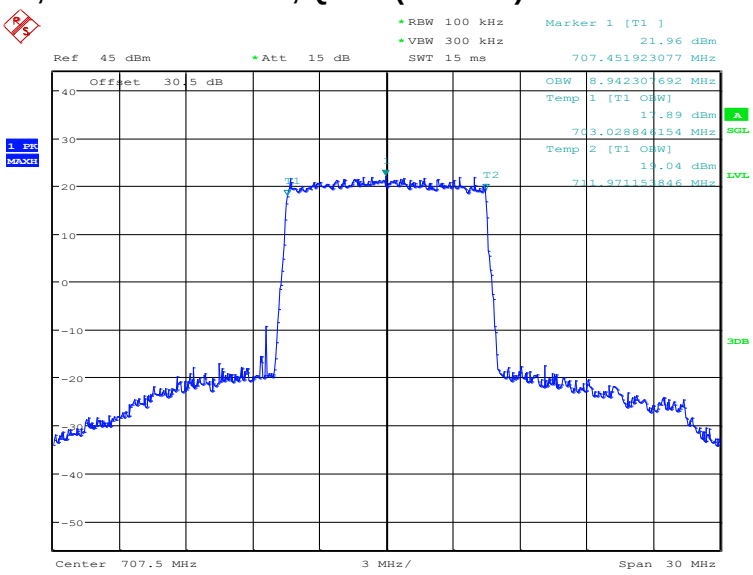
LTE band 12, 5MHz Bandwidth, 16QAM (99% BW)



LTE band 12, 10MHz (99%)

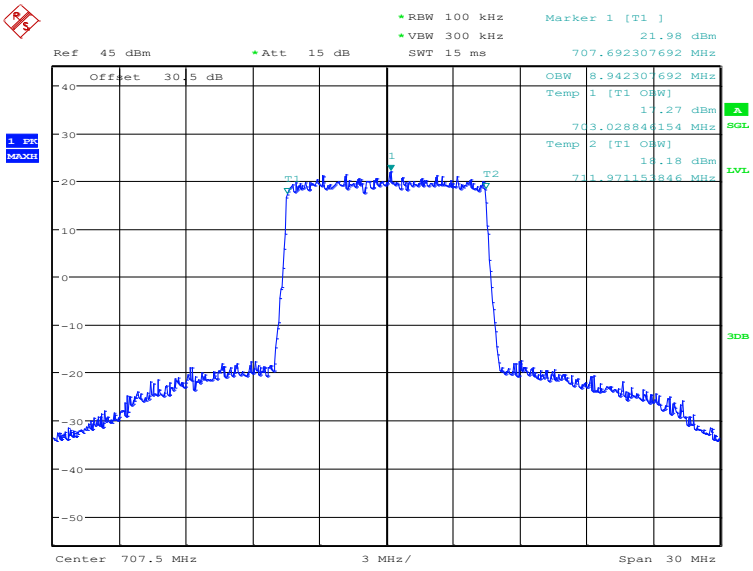
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 9.SEP.2024 12:22:01

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

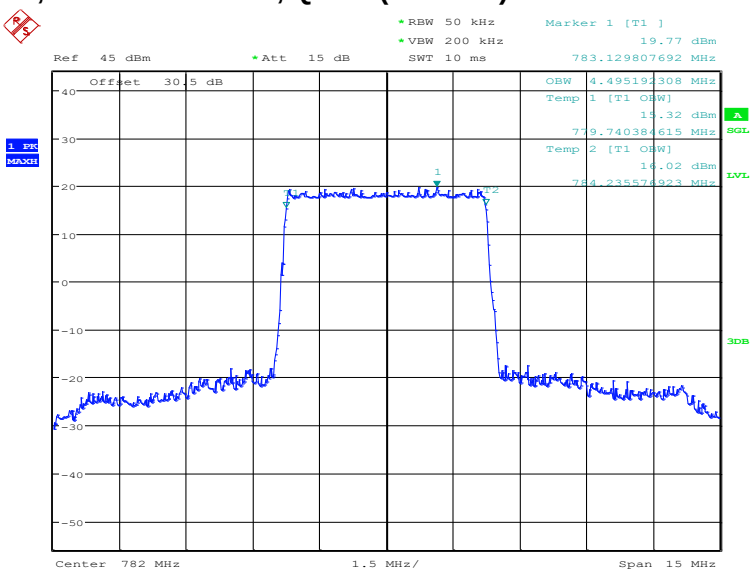


Date: 9.SEP.2024 12:22:41

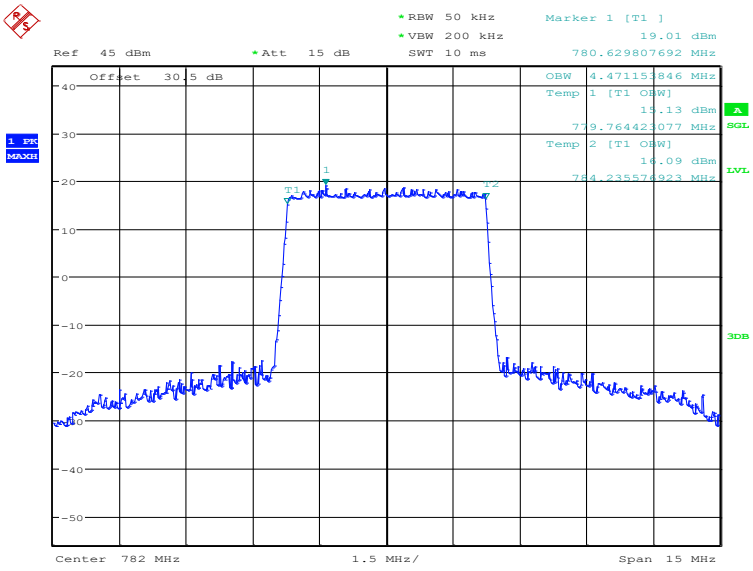
LTE band 13, 5MHz (99%)

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

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



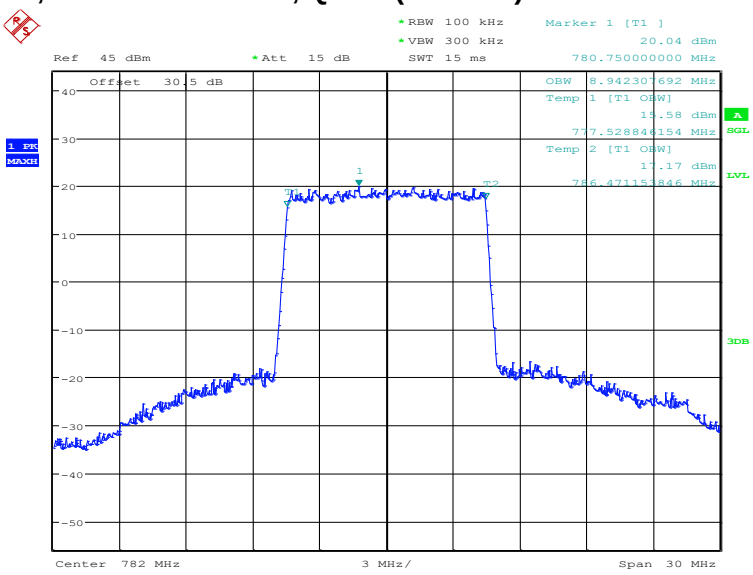
LTE band 13, 5MHz Bandwidth,16QAM (99% BW)



LTE band 13, 10MHz (99%)

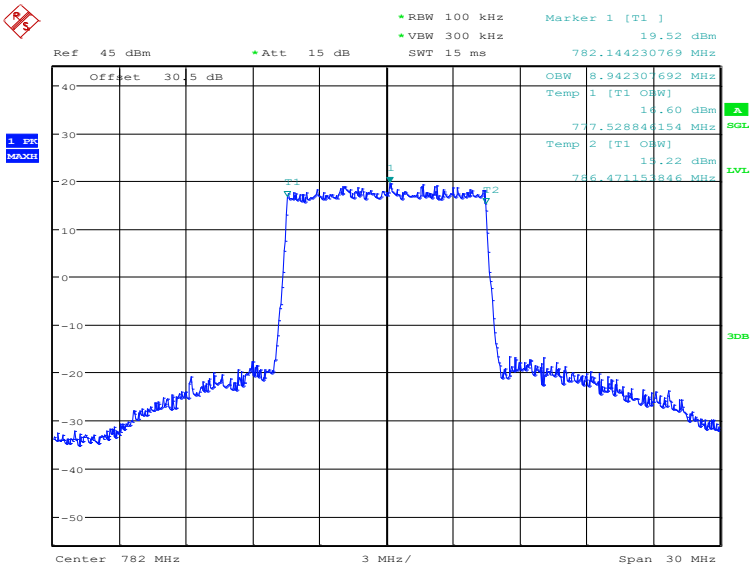
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
782.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 9.SEP.2024 12:24:47

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

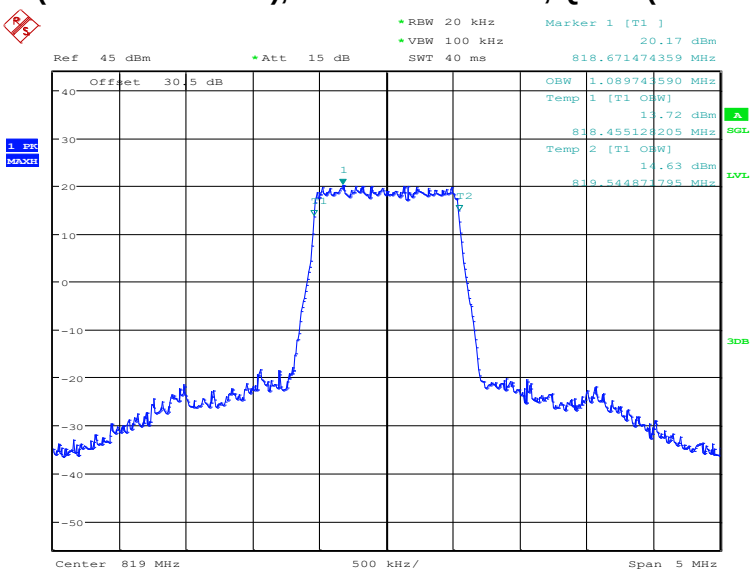


Date: 9.SEP.2024 12:25:28

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

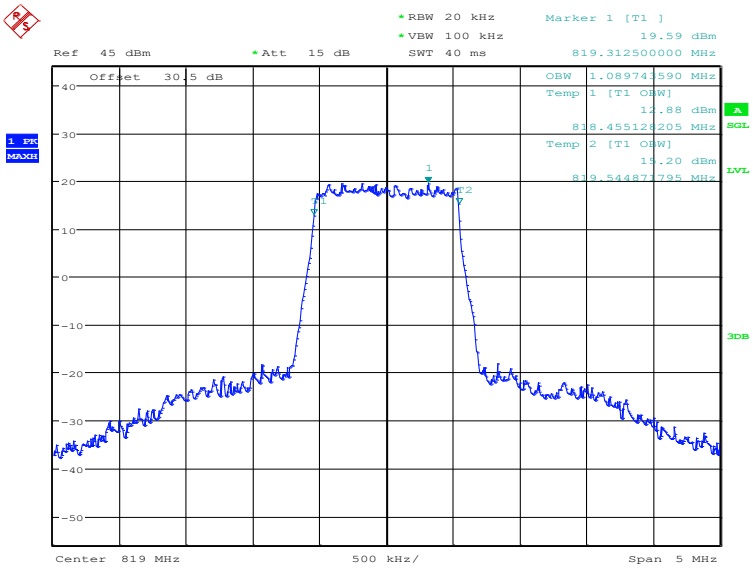
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1089.74	1089.74

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



Date: 9.SEP.2024 12:33:59

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

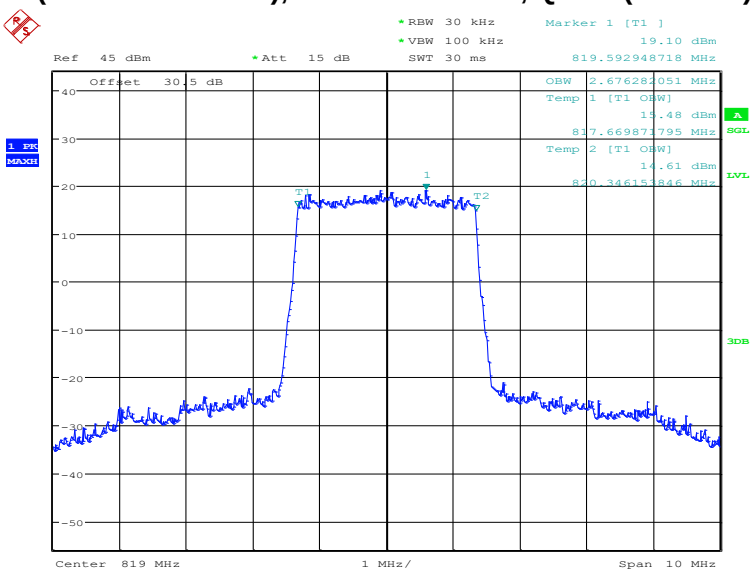


Date: 9.SEP.2024 12:34:39

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

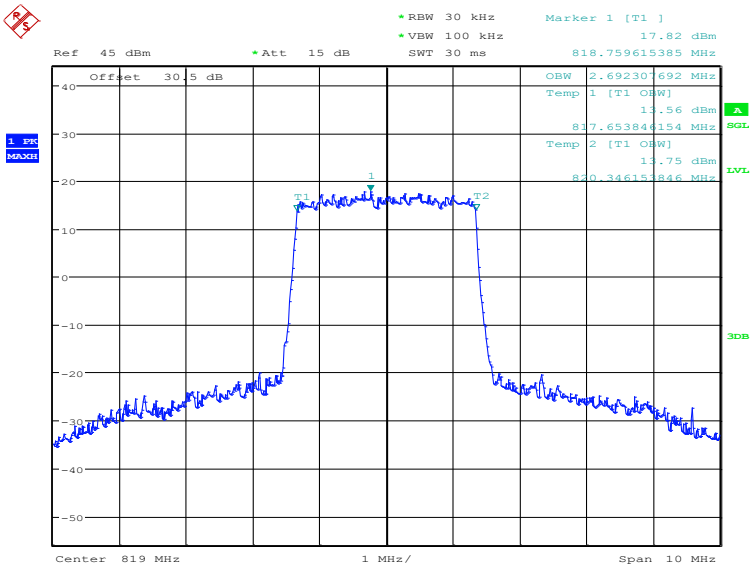
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2676.28	2692.31

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



Date: 9.SEP.2024 12:35:22

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

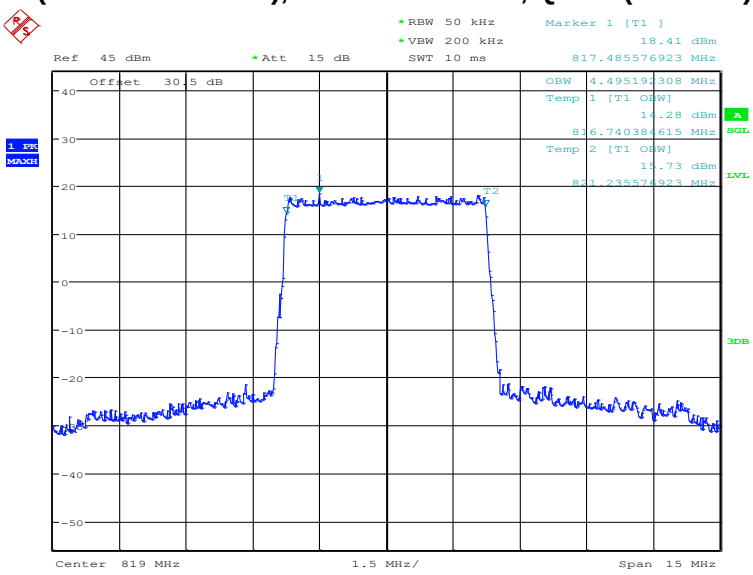


Date: 9.SEP.2024 12:36:02

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

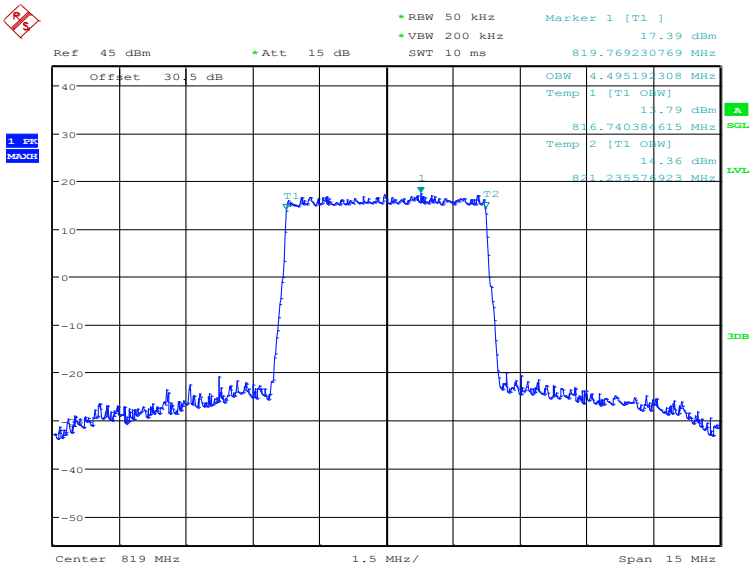
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 9.SEP.2024 12:36:44

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

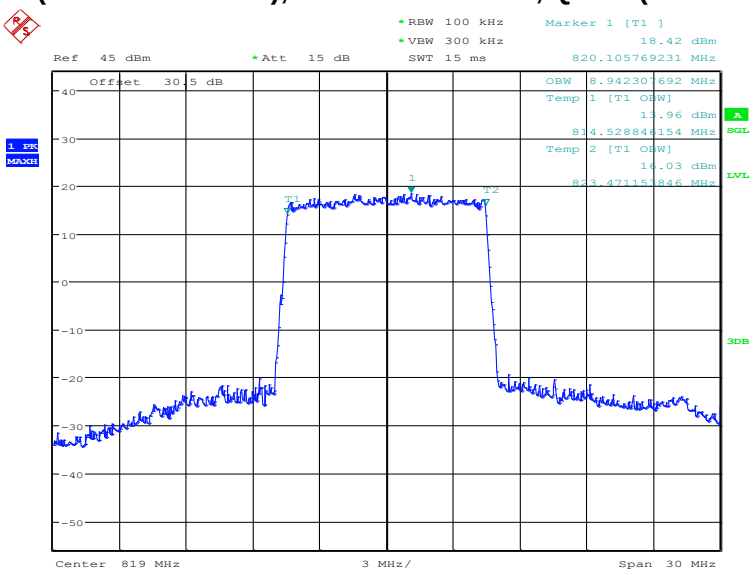


Date: 9.SEP.2024 12:37:24

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

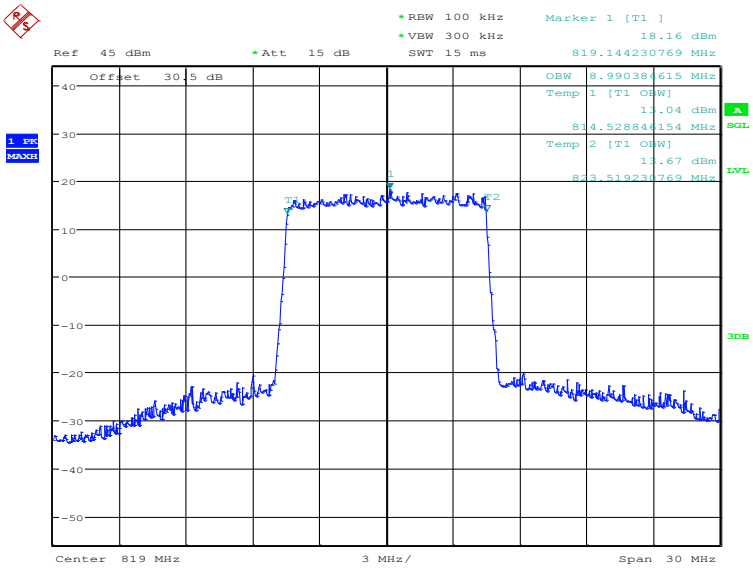
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	8942.31	8990.38

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



Date: 9.SEP.2024 12:38:07

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

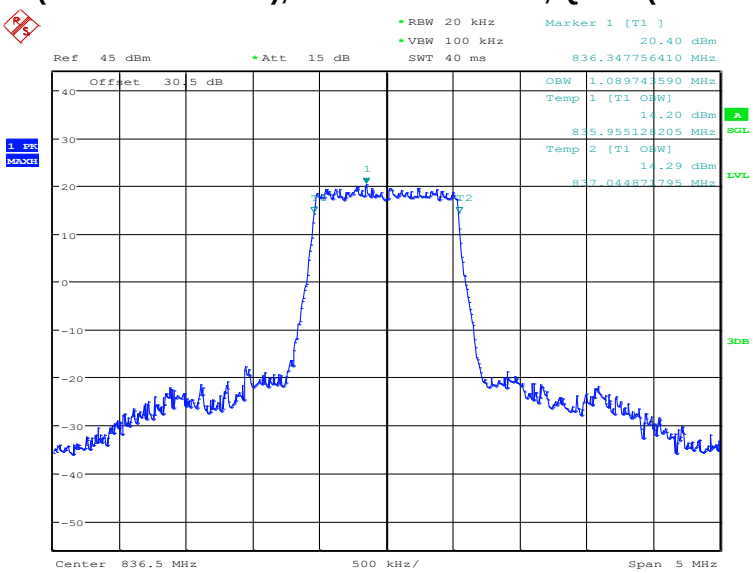


Date: 9.SEP.2024 12:38:47

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

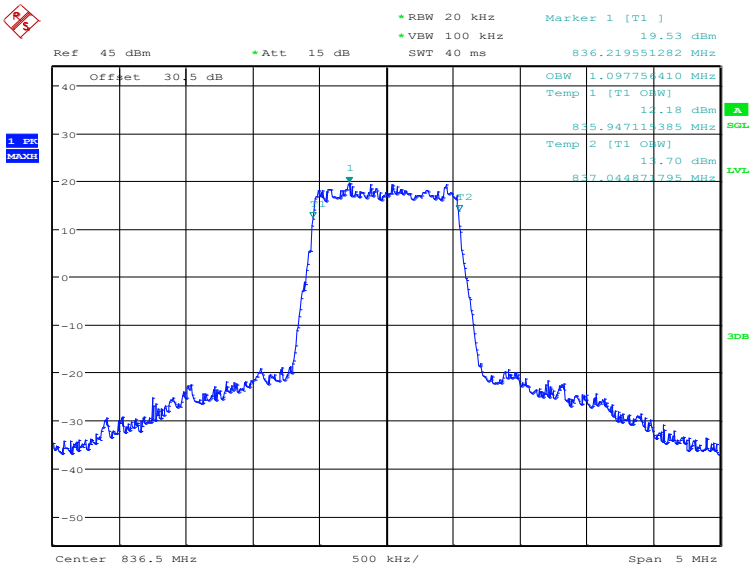
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 9.SEP.2024 12:26:12

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

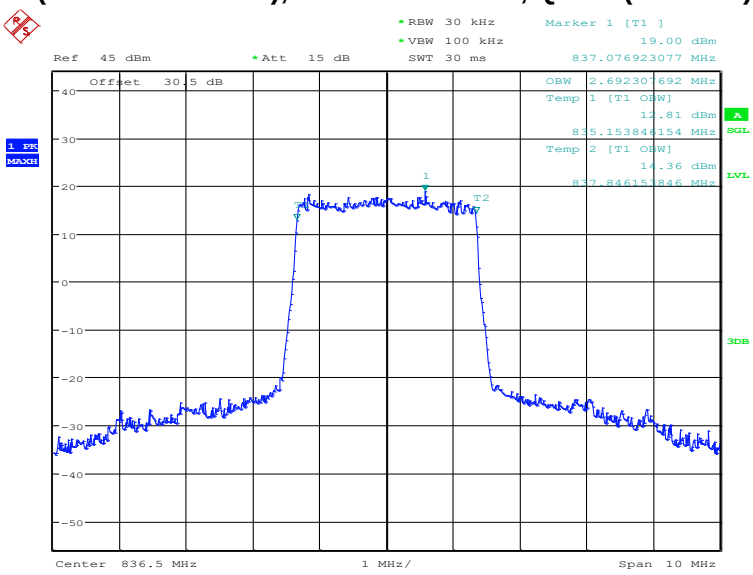


Date: 9.SEP.2024 12:26:52

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

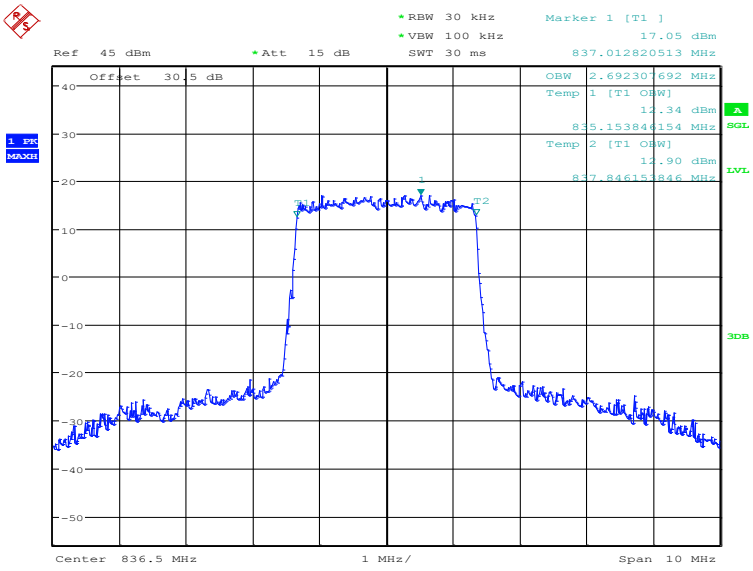
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 9.SEP.2024 12:27:35

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

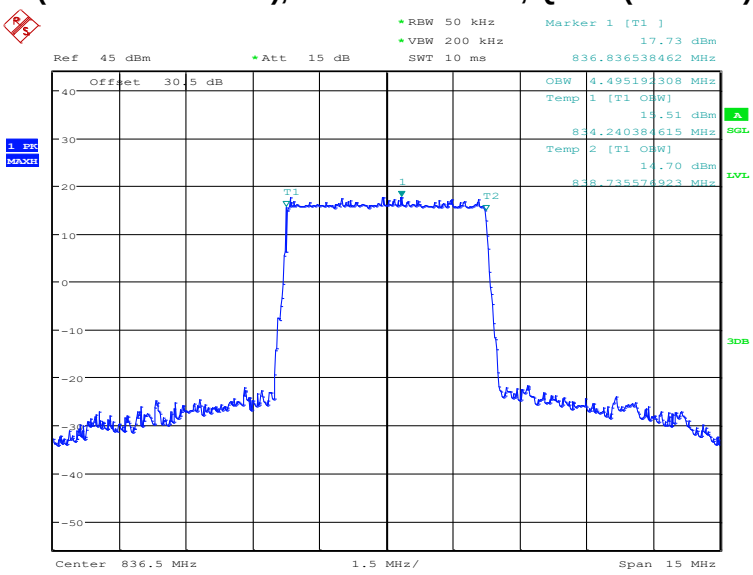


Date: 9.SEP.2024 12:28:15

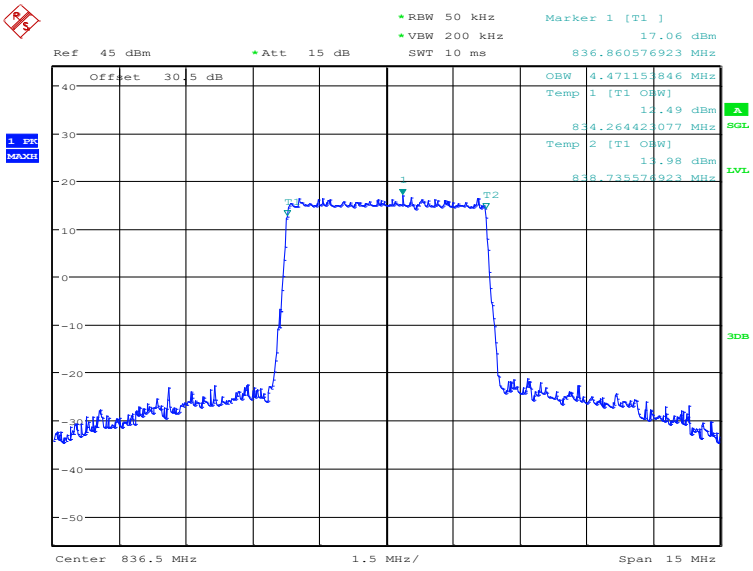
LTE band 26(824MHz~849MHz), 5MHz (99%)

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

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



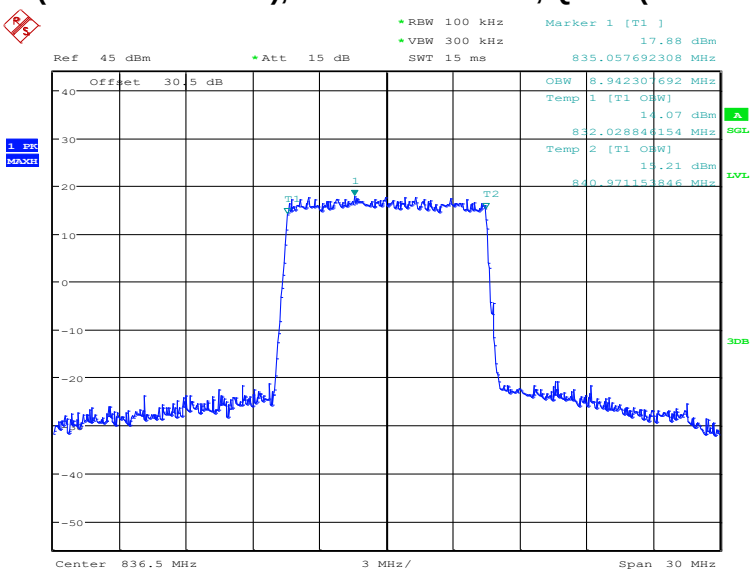
LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (99% BW)



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

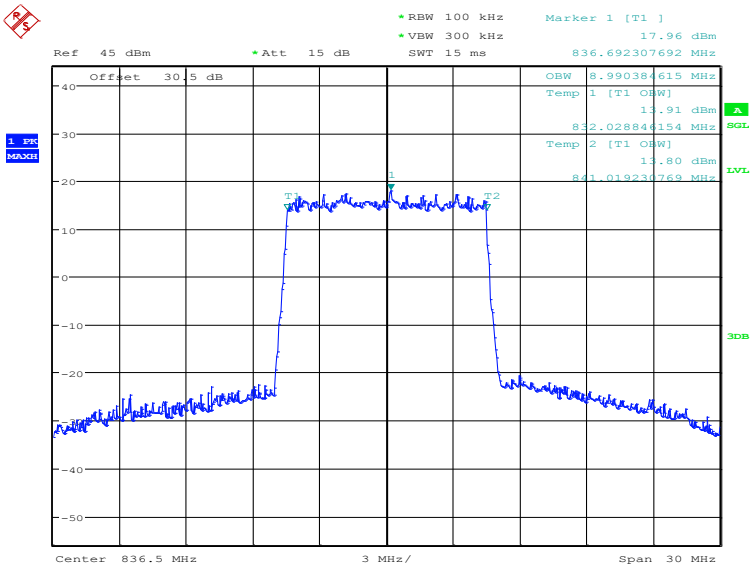
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8990.38

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



Date: 9.SEP.2024 12:30:20

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

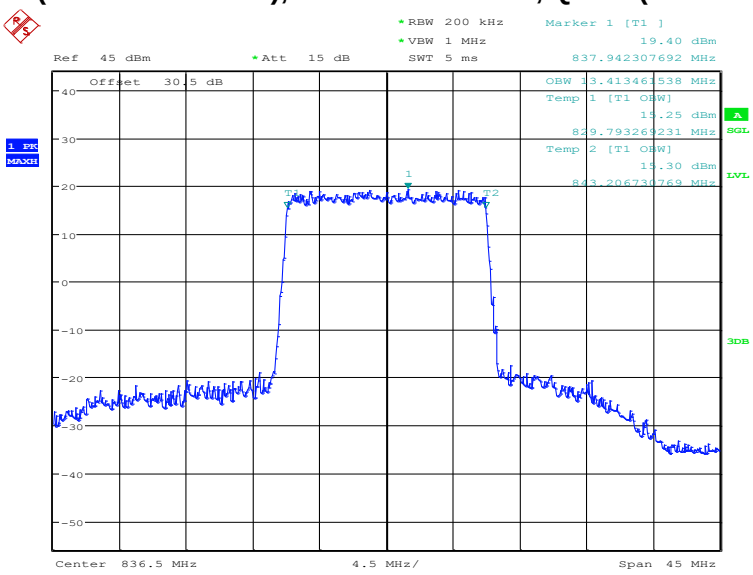


Date: 9.SEP.2024 12:31:00

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

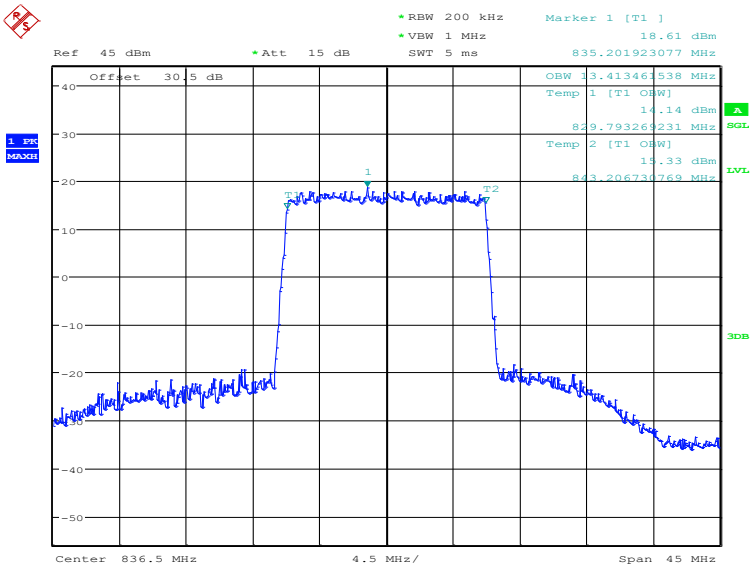
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	13413.46	13413.46

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



Date: 9.SEP.2024 12:31:42

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

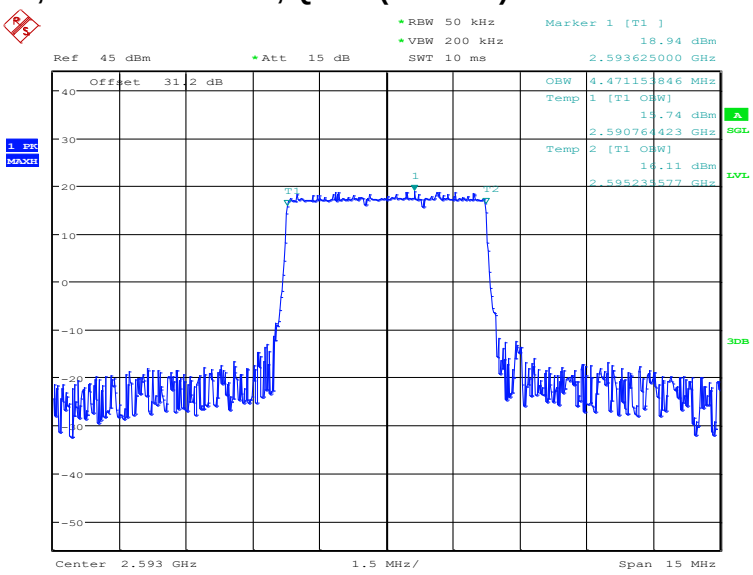


Date: 9.SEP.2024 12:32:23

LTE band 41, 5MHz (99%)

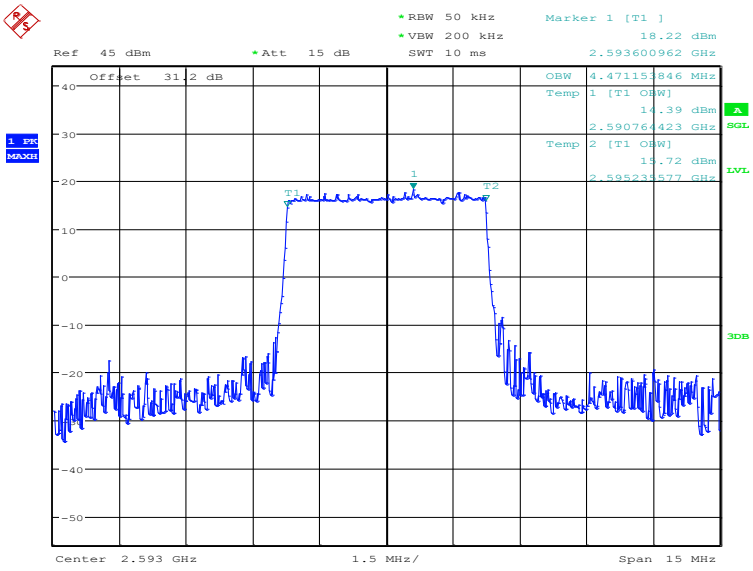
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	4471.15	4471.15

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



Date: 9.SEP.2024 12:48:32

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

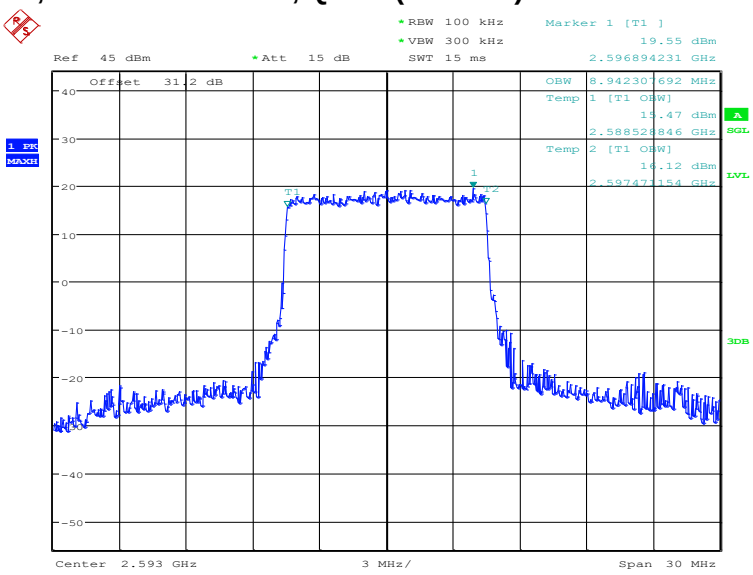


Date: 9.SEP.2024 12:49:12

LTE band 41, 10MHz (99%)

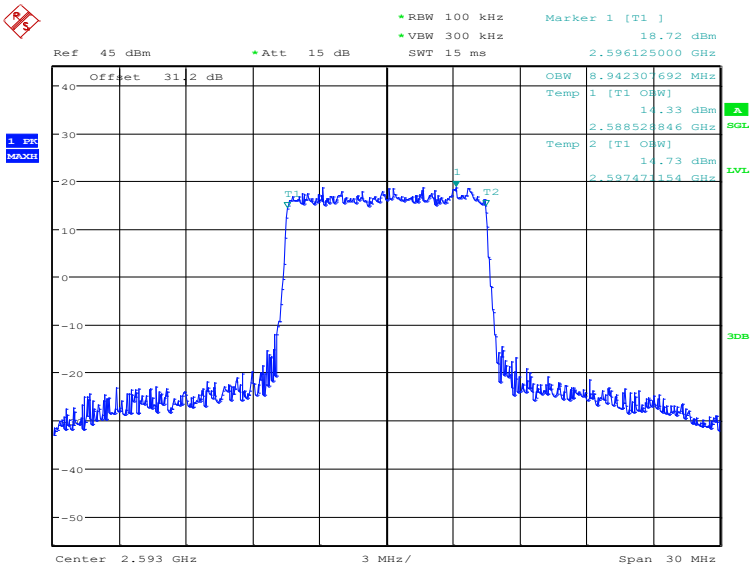
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 9.SEP.2024 12:49:55

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

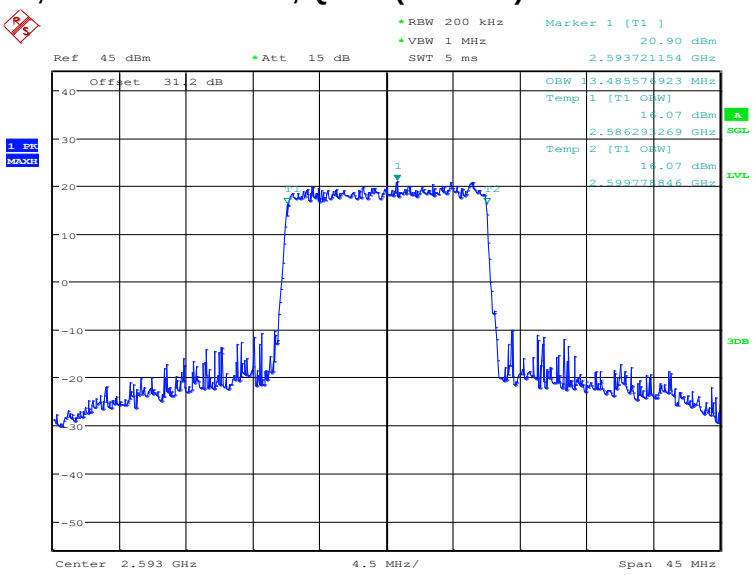


Date: 9.SEP.2024 12:50:35

LTE band 41, 15MHz (99%)

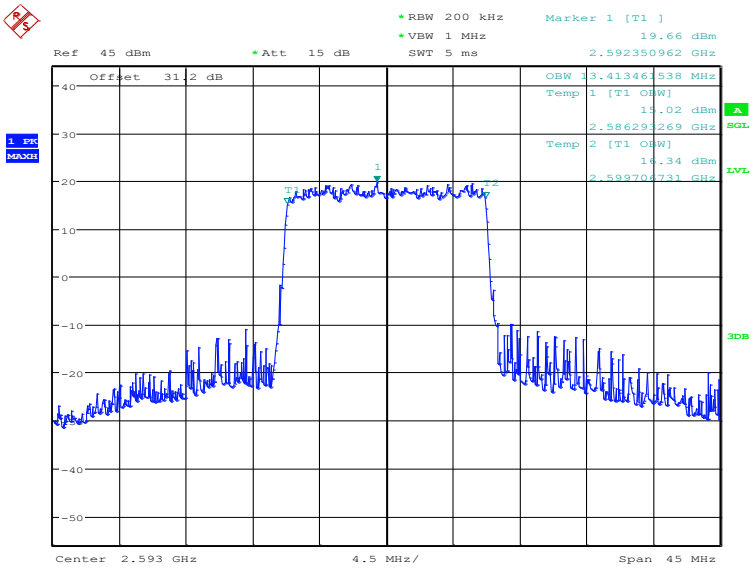
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	13485.58	13413.46

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



Date: 9.SEP.2024 12:51:18

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

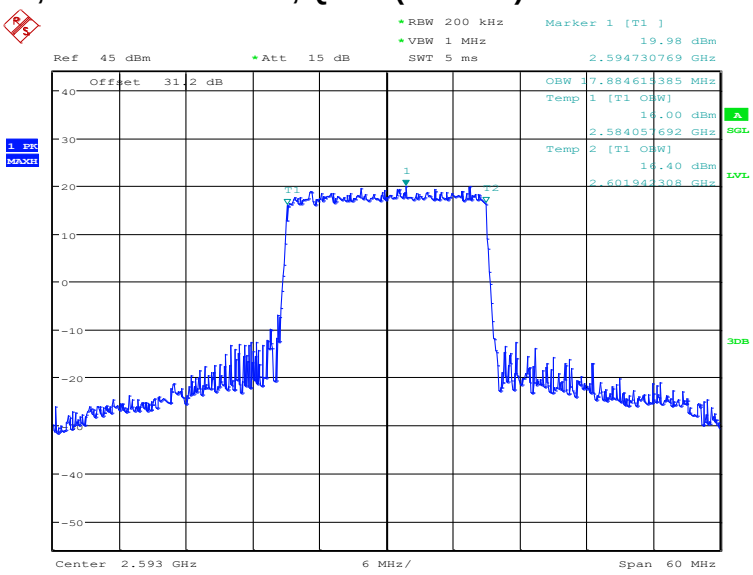


Date: 9.SEP.2024 12:51:59

LTE band 41, 20MHz (99%)

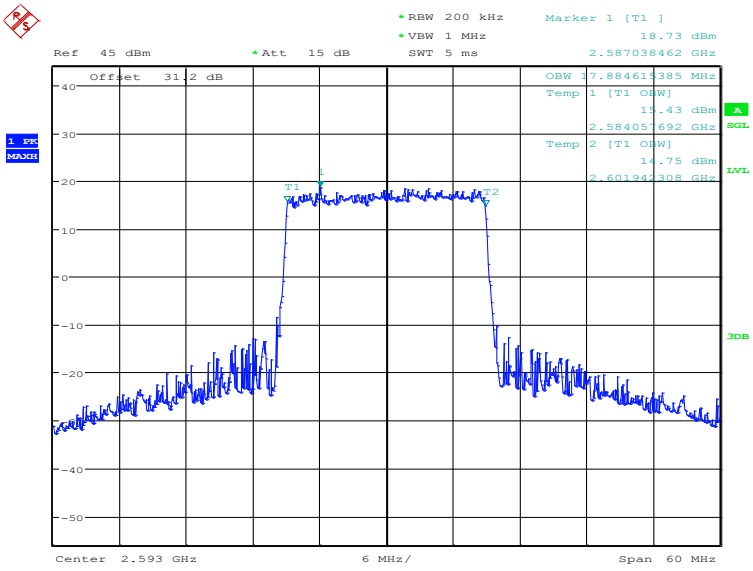
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2593.0	QPSK	16QAM
	17884.62	17884.62

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



Date: 9.SEP.2024 12:52:41

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

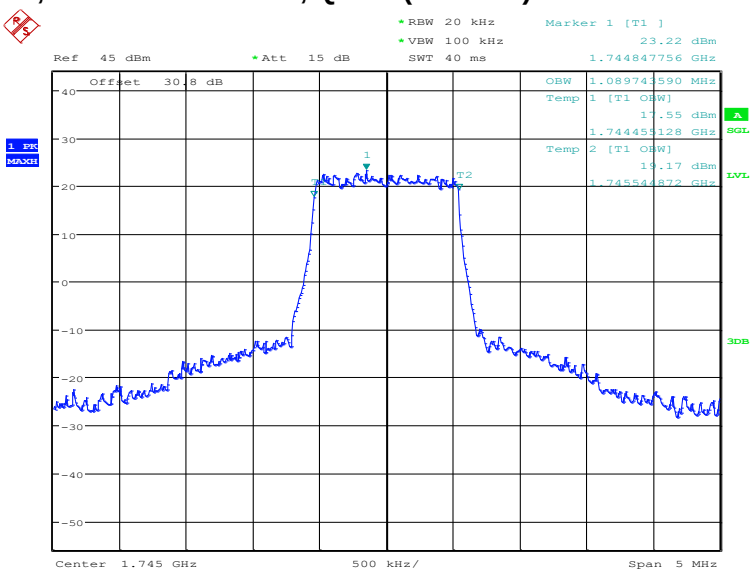


Date: 9.SEP.2024 12:53:22

LTE band 66, 1.4MHz (99%)

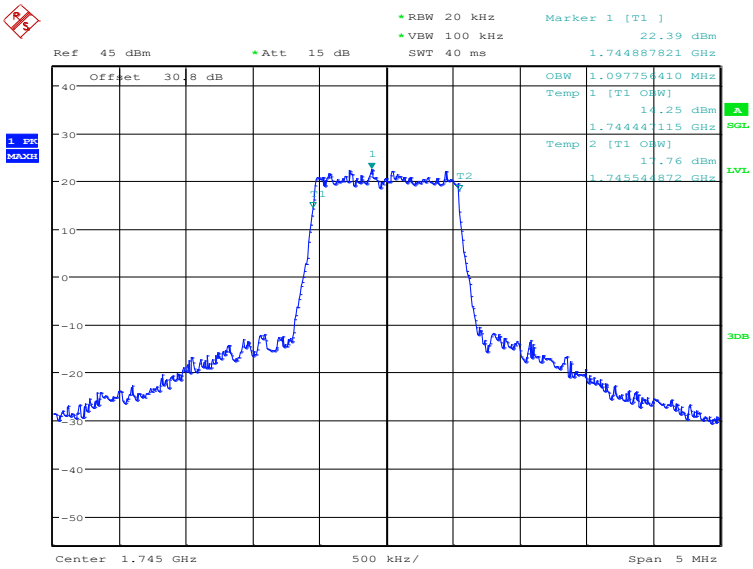
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	1089.74	1097.76

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



Date: 9.SEP.2024 12:39:31

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

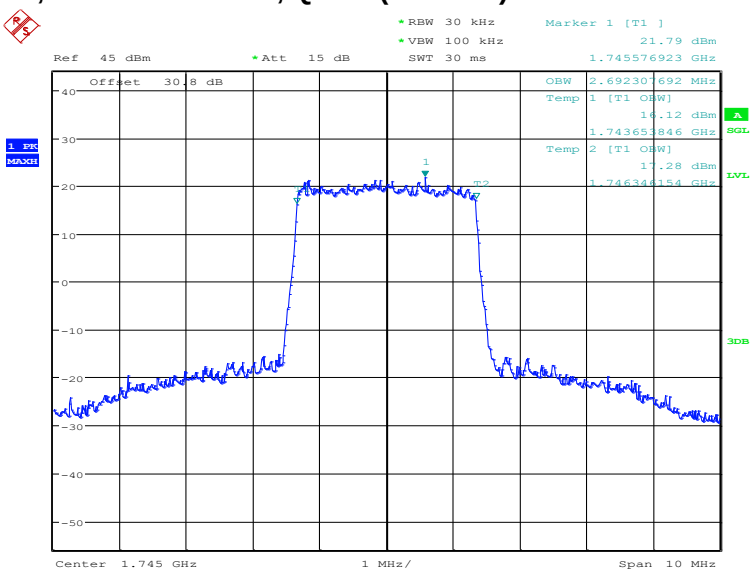


Date: 9.SEP.2024 12:40:11

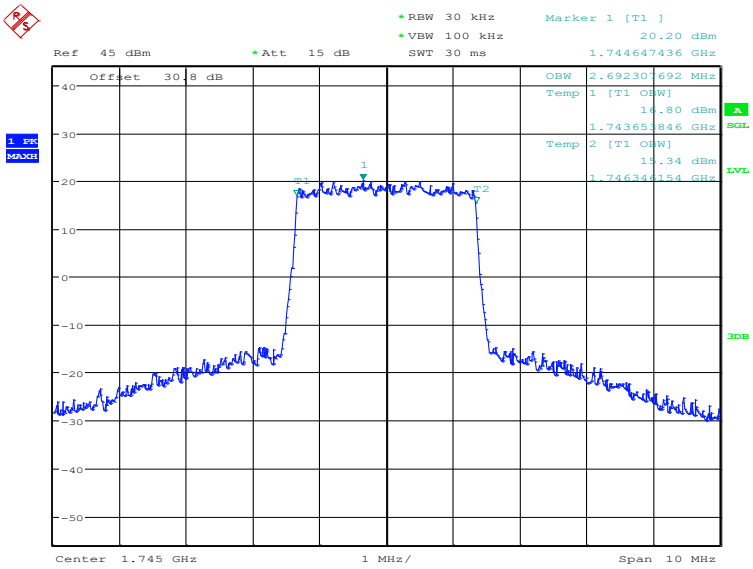
LTE band 66, 3MHz (99%)

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

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



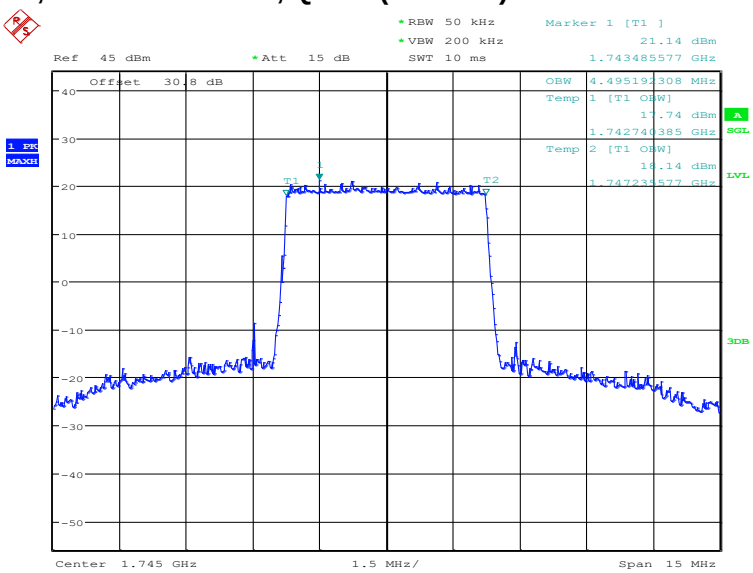
LTE band 66, 3MHz Bandwidth, 16QAM (99% BW)



LTE band 66, 5MHz (99%)

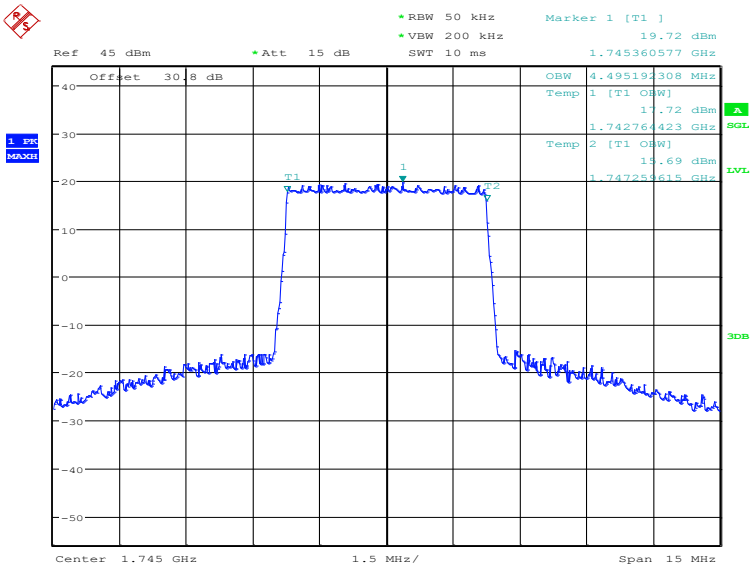
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	4495.19	4495.19

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



Date: 9.SEP.2024 12:42:16

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

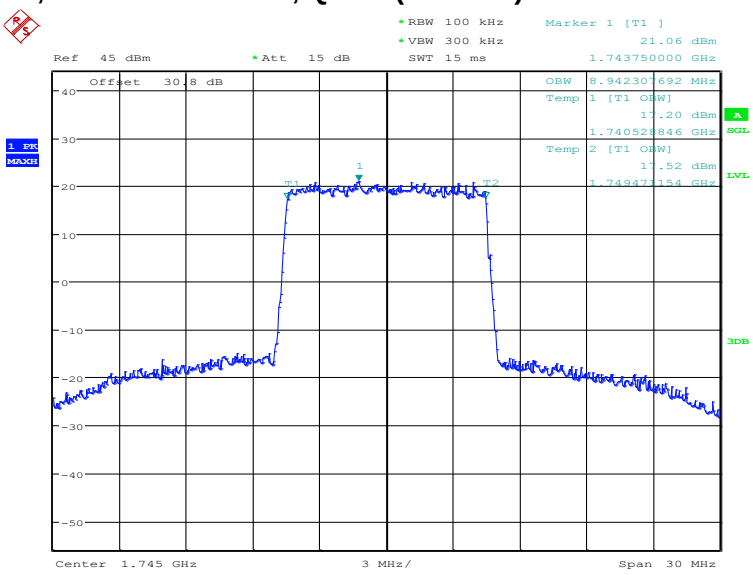


Date: 9.SEP.2024 12:42:56

LTE band 66, 10MHz (99%)

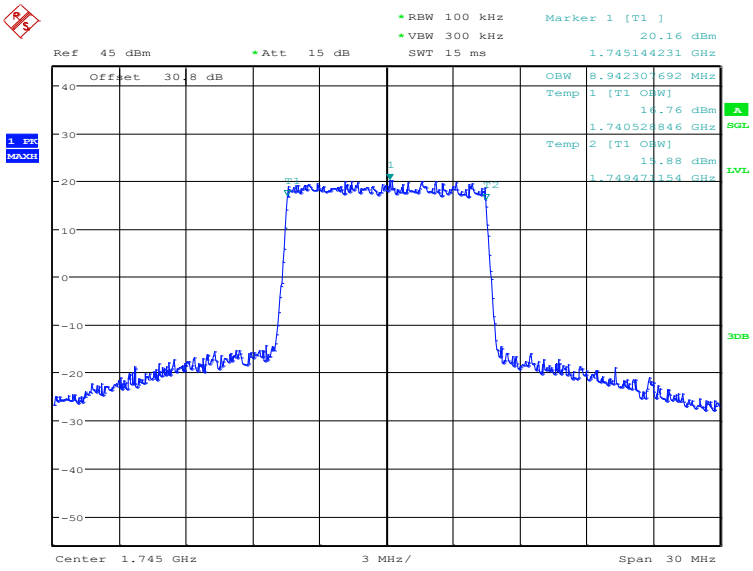
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	8942.31	8942.31

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



Date: 9.SEP.2024 12:43:39

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

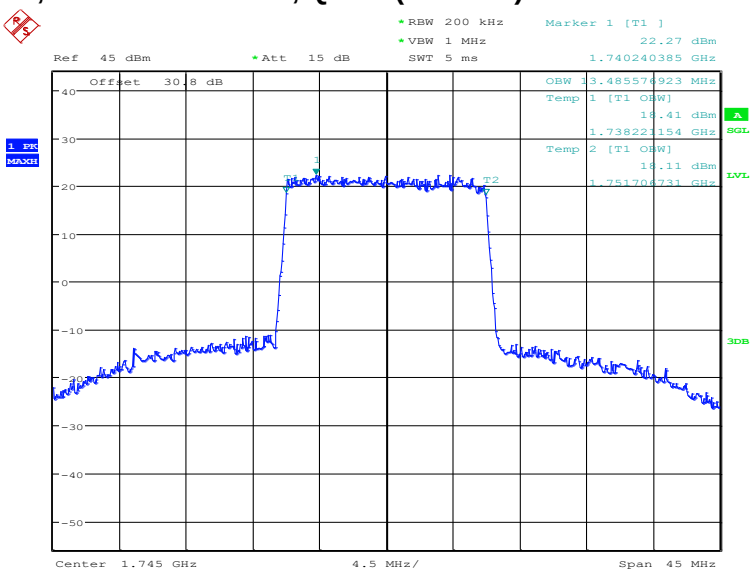


Date: 9.SEP.2024 12:44:20

LTE band 66, 15MHz (99%)

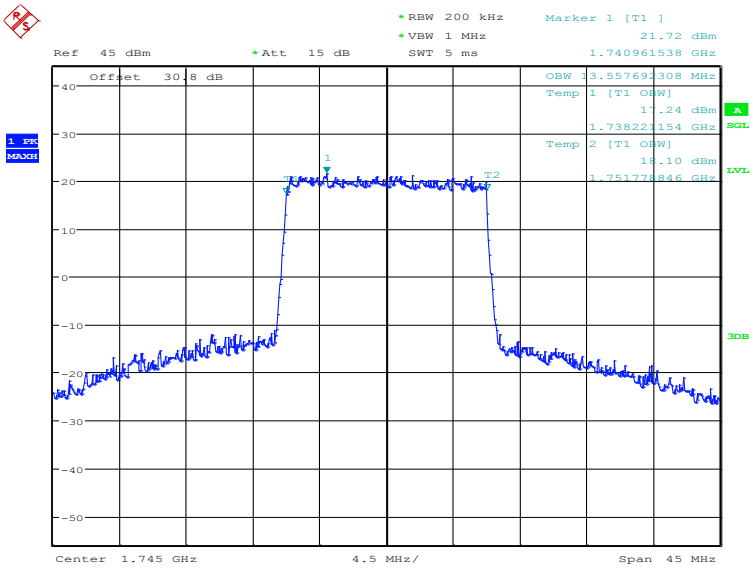
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	13485.58	13557.69

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



Date: 9.SEP.2024 12:45:02

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

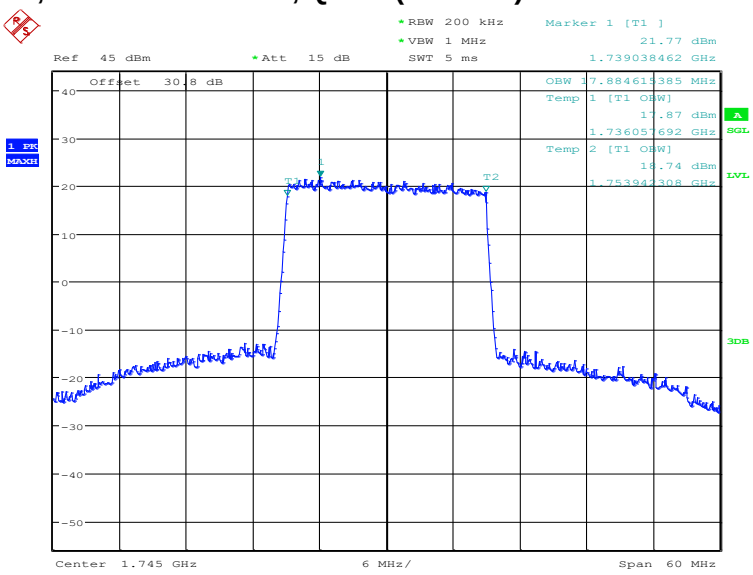


Date: 9.SEP.2024 12:45:43

LTE band 66, 20MHz (99%)

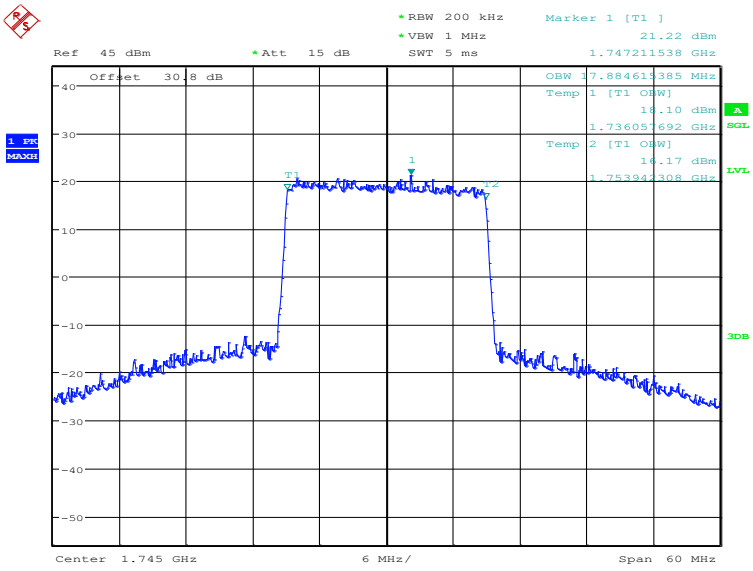
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1745.0	QPSK	16QAM
	17884.62	17884.62

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



Date: 9.SEP.2024 12:46:25

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

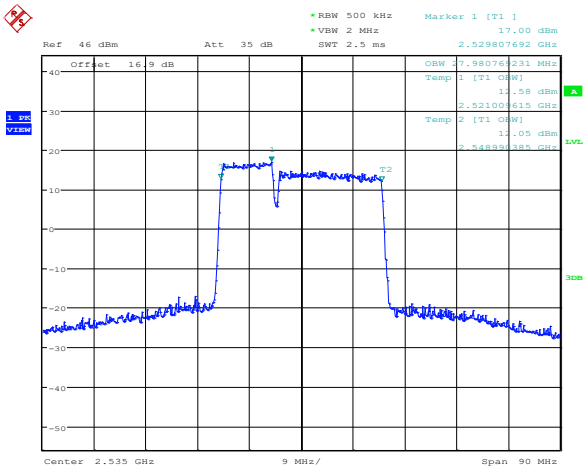


Date: 9.SEP.2024 12:47:05

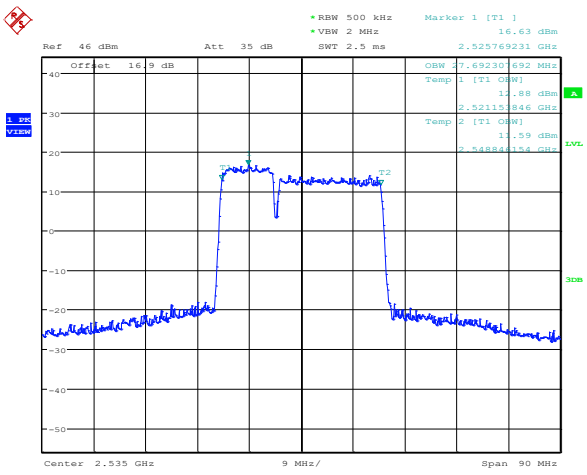
LTE CA band 7C, 10MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	27.981	27.692

LTE CA band 7C , 10MHz+20MHz Bandwidth,QPSK (99% BW)



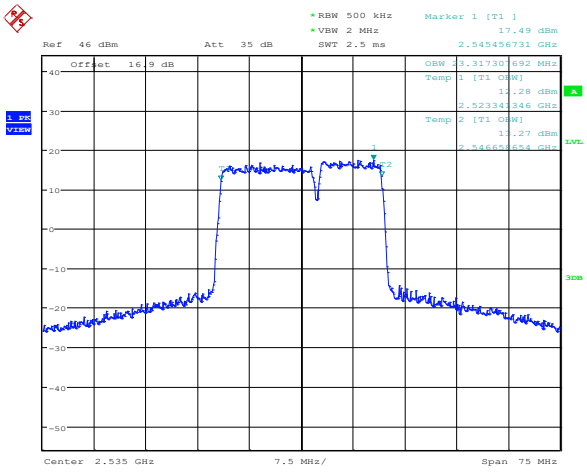
LTE CA band 7C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



LTE CA band 7C, 15MHz+10MHz(99%)

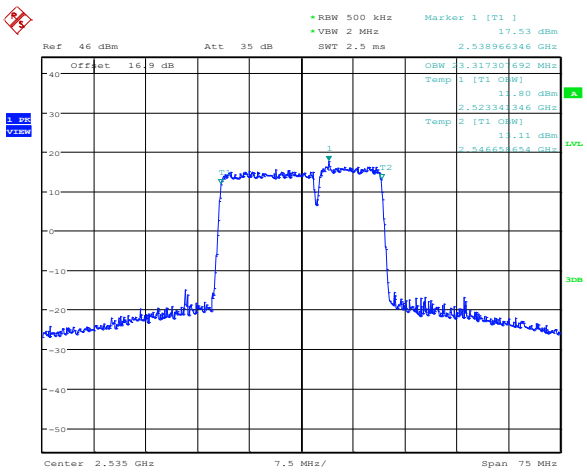
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	23.317	23.317

LTE CA band 7C , 15MHz+10MHz Bandwidth,QPSK (99% BW)



Date: 11.SEP.2024 12:18:51

LTE CA band 7C , 15MHz+10MHz Bandwidth,16QAM (99% BW)

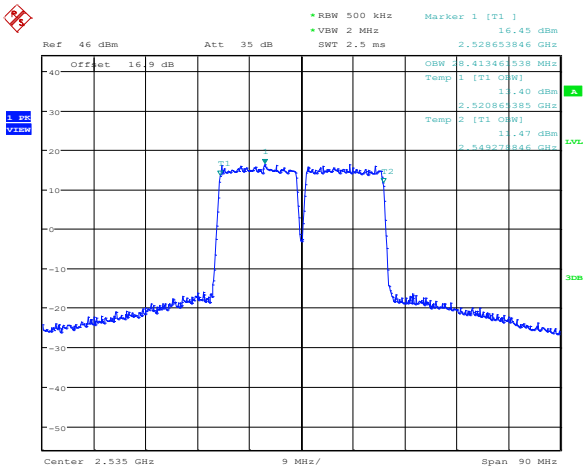


Date: 11.SEP.2024 12:19:13

LTE CA band 7C, 15MHz+15MHz(99%)

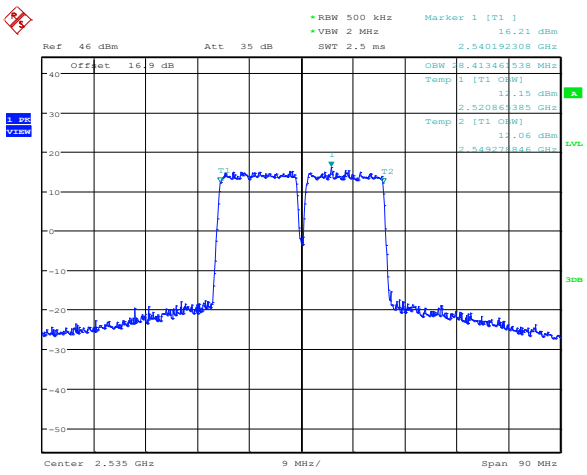
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	28.413	28.413

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



Date: 11.SEP.2024 12:21:12

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

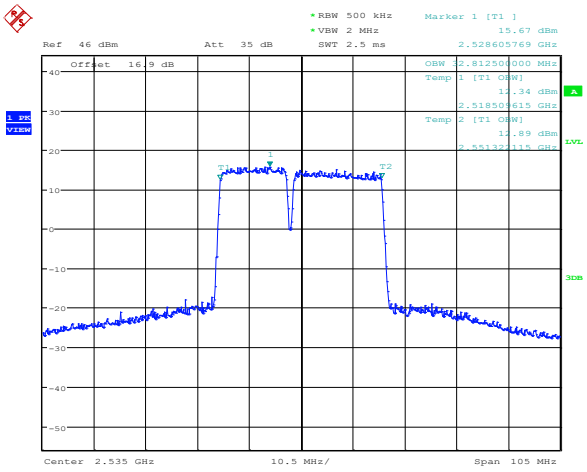


Date: 11.SEP.2024 12:21:34

LTE CA band 7C, 15MHz+20MHz(99%)

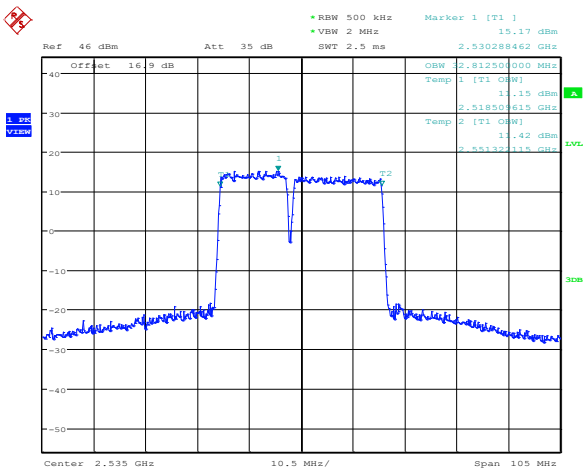
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	32.812	32.812

LTE CA band 7C , 15MHz+20MHz Bandwidth,QPSK (99% BW)



Date: 11.SEP.2024 12:22:25

LTE CA band 7C , 15MHz+20MHz Bandwidth,16QAM (99% BW)

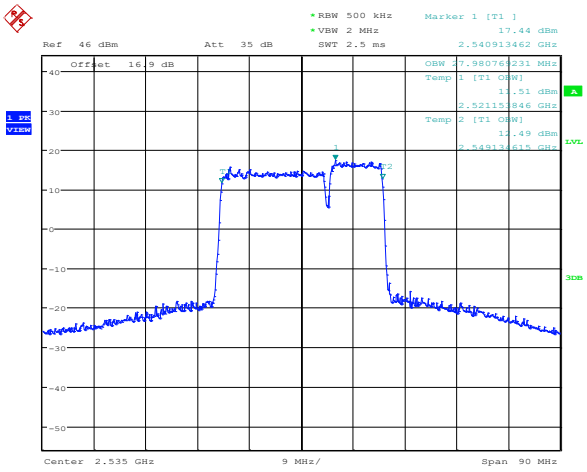


Date: 11.SEP.2024 12:22:47

LTE CA band 7C, 20MHz+10MHz(99%)

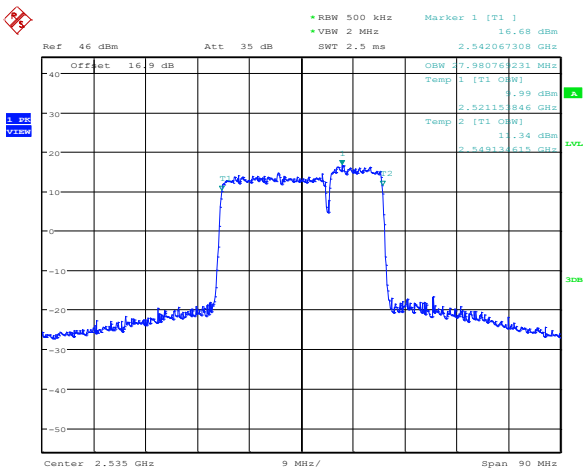
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	27.981	27.981

LTE CA band 7C , 20MHz+10MHz Bandwidth,QPSK (99% BW)



Date: 11.SEP.2024 12:24:07

LTE CA band 7C , 20MHz+10MHz Bandwidth,16QAM (99% BW)

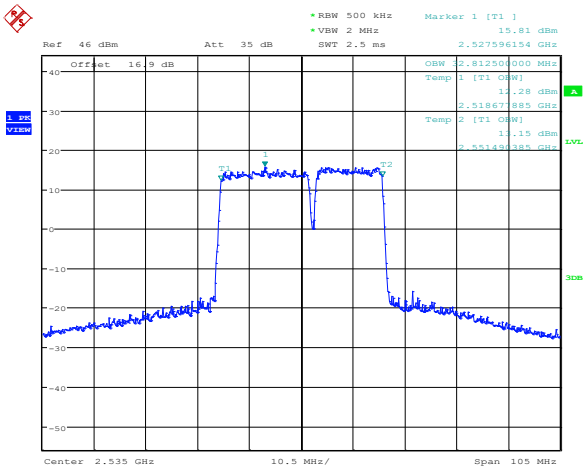


Date: 11.SEP.2024 12:24:29

LTE CA band 7C, 20MHz+15MHz(99%)

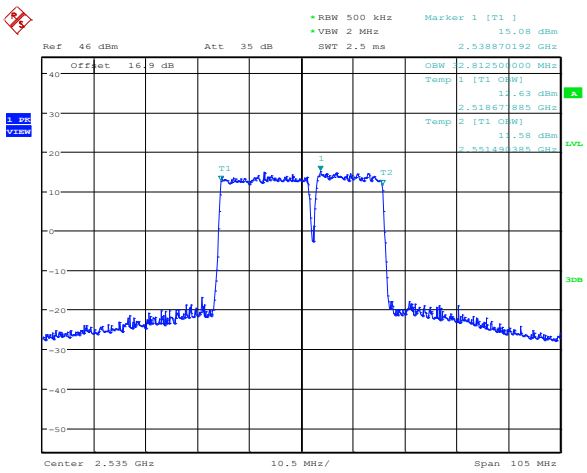
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	32.812	32.812

LTE CA band 7C , 20MHz+15MHz Bandwidth,QPSK (99% BW)



Date: 11.SEP.2024 12:25:20

LTE CA band 7C , 20MHz+15MHz Bandwidth,16QAM (99% BW)



Date: 11.SEP.2024 12:25:42