

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

RF Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1710.7	19957	1.4	1	0	23.53	
				1	3	23.50	
				1	5	23.48	
				3	0	23.29	
				3	1	23.17	
				3	3	23.27	
				6	0	22.24	
	1732.5	20175		1	0	23.06	
				1	3	23.19	
				1	5	23.19	
				3	0	23.12	
				3	1	23.32	
				3	3	23.32	
				6	0	22.41	
	1754.3	20393		1	0	23.30	
				1	3	23.33	
				1	5	23.33	
				3	0	23.43	
				3	1	23.30	
				3	3	23.29	
				6	0	22.50	
	16QAM	1710.7		19957	1	0	22.70
					1	3	22.44
					1	5	22.44
3			0		21.99		
3			1		22.06		
3			3		22.35		
6			0		21.28		
1732.5		20175	1	0	22.35		
			1	3	22.42		
			1	5	22.42		
			3	0	22.23		
			3	1	22.35		
			3	3	22.35		
			6	0	21.66		
1754.3		20393	1	0	22.72		
			1	3	22.57		
			1	5	22.57		
			3	0	22.61		
			3	1	22.59		
			3	3	22.59		
			6	0	21.24		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	21.28
				1	3	21.28
				1	5	21.28
				3	0	21.28
				3	1	21.28
				3	3	21.28
	1732.5	20175		6	0	21.28
				1	0	21.56
				1	3	21.56
				1	5	21.57
				3	0	21.56
				3	1	21.56
	1754.3	20393		3	3	21.56
				6	0	21.56
				1	0	21.24
				1	3	21.25
				1	5	21.25
				3	0	21.24
				3	1	21.25
				3	3	21.25
				6	0	21.24

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.20
				1	8	23.09
				1	14	23.08
				8	0	22.29
				8	4	22.35
				8	7	22.35
				15	0	22.22
	1732.5	20175		1	0	23.44
				1	8	23.55
				1	14	23.55
				8	0	22.51
				8	4	22.49
				8	7	22.50
				15	0	22.47
	1753.5	20385		1	0	23.59
				1	8	23.58
				1	14	23.45
				8	0	22.40
				8	4	22.63
				8	7	22.62
				15	0	22.51
16QAM	1711.5	19965	1	0	22.31	
			1	8	22.43	
			1	14	22.22	
			8	0	21.18	
			8	4	21.13	
			8	7	21.14	
			15	0	21.19	
	1732.5	20175	1	0	22.67	
			1	8	22.65	
			1	14	22.65	
			8	0	21.24	
			8	4	21.21	
			8	7	21.21	
			15	0	21.22	
	1753.5	20385	1	0	22.41	
			1	8	22.39	
			1	14	22.39	
			8	0	21.37	
		8	4	21.43		
		8	7	21.43		
		15	0	21.56		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	21.19
				1	8	21.18
				1	14	21.19
				8	0	21.19
				8	4	21.18
				8	7	21.18
				15	0	21.18
	1732.5	20175		1	0	21.23
				1	8	21.23
				1	14	21.23
				8	0	21.23
				8	4	21.23
				8	7	21.23
				15	0	21.23
	1753.5	20385		1	0	21.56
				1	8	21.56
				1	14	21.56
				8	0	21.56
				8	4	21.56
				8	7	21.56
				15	0	21.56

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.07
				1	12	23.21
				1	24	23.20
				12	0	22.38
				12	7	22.32
				12	13	22.32
				25	0	22.25
	1732.5	20175		1	0	23.02
				1	12	22.99
				1	24	22.99
				12	0	22.30
				12	7	22.40
				12	13	22.40
				25	0	22.34
	1752.5	20375		1	0	23.37
				1	12	23.71
				1	24	23.70
				12	0	22.55
				12	7	22.59
				12	13	22.59
				25	0	22.61
16QAM	1712.5	19975	1	0	21.55	
			1	12	21.54	
			1	24	21.54	
			12	0	21.28	
			12	7	21.31	
			12	13	21.31	
			25	0	21.43	
	1732.5	20175	1	0	22.52	
			1	12	22.57	
			1	24	22.56	
			12	0	21.26	
			12	7	21.27	
			12	13	21.27	
			25	0	21.27	
	1752.5	20375	1	0	22.41	
			1	12	22.45	
			1	24	22.44	
			12	0	21.30	
			12	7	21.35	
			12	13	21.35	
			25	0	21.56	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	21.32
				1	12	21.32
				1	24	21.32
				12	0	21.32
				12	7	21.32
				12	13	21.32
				25	0	21.32
	1732.5	20175		1	0	21.27
				1	12	21.27
				1	24	21.27
				12	0	21.27
				12	7	21.27
				12	13	21.27
				25	0	21.27
	1752.5	20375		1	0	21.56
				1	12	21.42
				1	24	21.42
				12	0	21.42
				12	7	21.56
				12	13	21.56
				25	0	21.56

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1715	20000	10	1	0	23.35	
				1	25	23.21	
				1	49	23.24	
				25	0	22.38	
				25	12	22.29	
				25	25	22.29	
				50	0	22.40	
	1732.5	20175		1	0	23.07	
				1	25	23.39	
				1	49	23.39	
				25	0	22.36	
				25	12	22.38	
				25	25	22.38	
				50	0	22.33	
	1750	20350		1	0	23.24	
				1	25	23.52	
				1	49	23.51	
				25	0	22.62	
				25	12	22.63	
				25	25	22.63	
				50	0	22.46	
	16QAM	1715		20000	1	0	22.24
					1	25	22.73
					1	49	22.73
25					0	21.43	
25					12	21.32	
25					25	21.42	
50					0	21.26	
1732.5		20175	1	0	23.06		
			1	25	23.55		
			1	49	23.55		
			25	0	21.46		
			25	12	21.47		
			25	25	21.47		
			50	0	21.36		
1750		20350	1	0	22.74		
			1	25	22.74		
			1	49	22.73		
			25	0	21.81		
			25	12	21.51		
			25	25	21.51		
50	0	21.40					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	21.26
				1	25	21.27
				1	49	21.39
				25	0	21.39
				25	12	21.38
				25	25	21.27
				50	0	21.27
	1732.5	20175		1	0	21.36
				1	25	21.36
				1	49	21.36
				25	0	21.36
				25	12	21.37
				25	25	21.36
				50	0	21.37
	1750	20350		1	0	21.40
				1	25	21.40
				1	49	21.40
				25	0	21.40
				25	12	21.40
				25	25	21.40
				50	0	21.40

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1717.5	20025	15	1	0	23.45	
				1	37	22.98	
				1	74	23.08	
				36	0	22.25	
				36	29	22.17	
				36	30	22.17	
				75	0	22.23	
	1732.5	20175		1	0	23.12	
				1	37	23.56	
				1	74	23.56	
				36	0	22.30	
				36	29	22.28	
				36	30	22.28	
				75	0	22.29	
	1747.5	20325		1	0	23.32	
				1	37	23.66	
				1	74	23.65	
				36	0	22.43	
				36	29	22.44	
				36	30	22.44	
				75	0	22.54	
	16QAM	1717.5		20025	1	0	22.87
					1	37	22.77
					1	74	22.77
36					0	21.39	
36					29	21.20	
36					30	21.22	
75					0	21.24	
1732.5		20175	1	0	22.73		
			1	37	23.19		
			1	74	23.19		
			36	0	21.08		
			36	29	21.59		
			36	30	21.59		
			75	0	21.26		
1747.5		20325	1	0	23.00		
			1	37	22.55		
			1	74	22.55		
			36	0	21.64		
			36	29	21.57		
			36	30	21.57		
75	0	21.52					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	21.24
				1	37	21.24
				1	74	21.24
				36	0	21.24
				36	29	21.24
				36	30	21.24
				75	0	21.24
	1732.5	20175		1	0	21.27
				1	37	21.27
				1	74	21.27
				36	0	21.27
				36	29	21.27
				36	30	21.27
				75	0	21.27
	1747.5	20325		1	0	21.53
				1	37	21.52
				1	74	21.53
				36	0	21.53
				36	29	21.53
				36	30	21.53
				75	0	21.53

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1720	20050	20	1	0	23.30	
				1	49	23.06	
				1	99	23.13	
				50	0	22.22	
				50	24	22.32	
				50	50	22.30	
				100	0	22.35	
	1732.5	20175		1	0	23.30	
				1	49	23.54	
				1	99	23.55	
				50	0	22.38	
				50	24	22.44	
				50	50	22.44	
				100	0	22.39	
	1745	20300		1	0	23.24	
				1	49	24.08	
				1	99	24.07	
				50	0	22.63	
				50	24	22.47	
				50	50	22.47	
				100	0	22.56	
	16QAM	1720		20050	1	0	22.60
					1	49	22.60
					1	99	22.60
50					0	21.25	
50					24	21.35	
50					50	21.35	
100					0	21.33	
1732.5		20175		1	0	22.57	
				1	49	22.65	
				1	99	22.65	
				50	0	21.35	
				50	24	21.43	
				50	50	21.43	
				100	0	21.38	
1745		20300		1	0	22.71	
				1	49	23.53	
				1	99	23.57	
				50	0	21.53	
				50	24	21.37	
				50	50	21.37	
				100	0	21.47	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	21.43
				1	49	21.42
				1	99	21.33
				50	0	21.42
				50	24	21.42
				50	50	21.43
				100	0	21.43
	1732.5	20175		1	0	21.38
				1	49	21.38
				1	99	21.38
				50	0	21.38
				50	24	21.38
				50	50	21.38
				100	0	21.38
	1745	20300		1	0	21.47
				1	49	21.47
				1	99	21.48
				50	0	21.48
				50	24	21.48
				50	50	21.48
				100	0	21.48

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1710.7	19957	1.4	6	0	1.088	Fig.1	1.094	Fig.2	1.088	Fig.3
	1732.5	20175		6	0	1.082	Fig.4	1.082	Fig.5	1.082	Fig.6
	1754.3	20393		6	0	1.088	Fig.7	1.082	Fig.8	1.082	Fig.9
	1711.5	19965	3	15	0	2.683	Fig.10	2.683	Fig.11	2.683	Fig.12
	1732.5	20175		15	0	2.683	Fig.13	2.683	Fig.14	2.683	Fig.15
	1753.5	20385		15	0	2.683	Fig.16	2.683	Fig.17	2.683	Fig.18
	1712.5	19975	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	1732.5	20175		25	0	4.472	Fig.22	4.472	Fig.23	4.450	Fig.24
	1752.5	20375		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	1715	20000	10	50	0	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	1732.5	20175		50	0	8.944	Fig.31	8.944	Fig.32	8.944	Fig.33
	1750	20350		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36
	1717.5	20025	15	75	0	13.350	Fig.37	13.415	Fig.38	13.415	Fig.39
	1732.5	20175		75	0	13.350	Fig.40	13.415	Fig.41	13.415	Fig.42
	1747.5	20325		75	0	13.415	Fig.43	13.415	Fig.44	13.415	Fig.45
	1720	20050	20	100	0	17.800	Fig.46	17.800	Fig.47	17.887	Fig.48
	1732.5	20175		100	0	17.800	Fig.49	17.800	Fig.50	17.887	Fig.51
	1745	20300		100	0	17.800	Fig.52	17.887	Fig.53	17.887	Fig.54

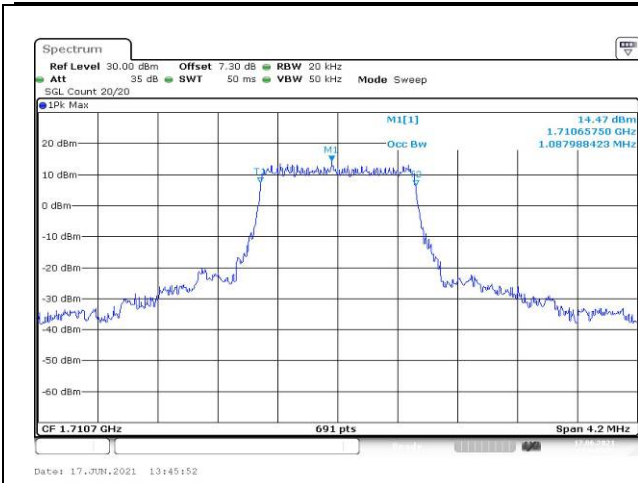


Fig.1

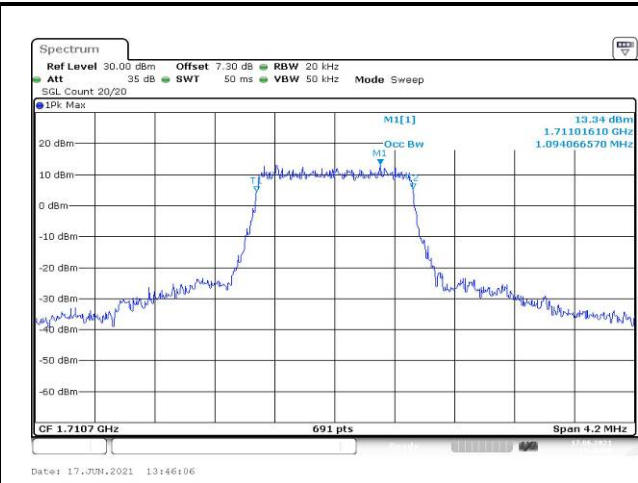


Fig.2

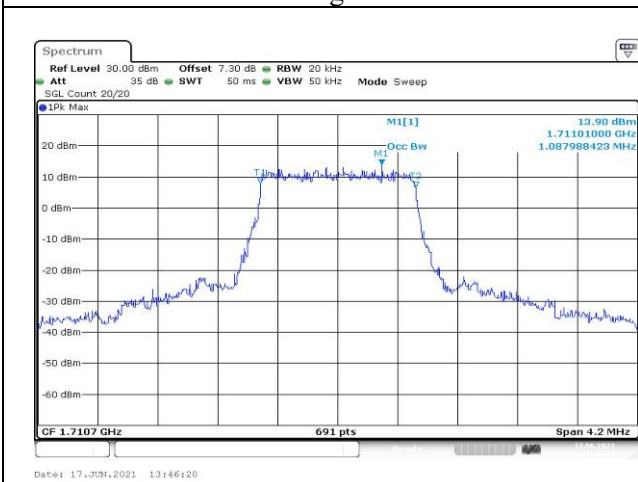


Fig.3

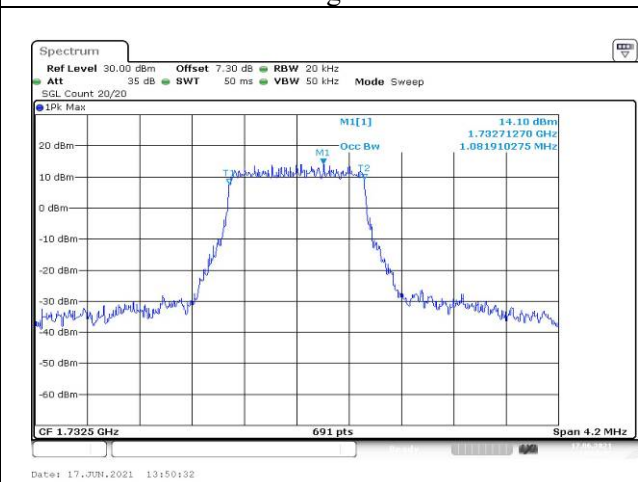


Fig.4

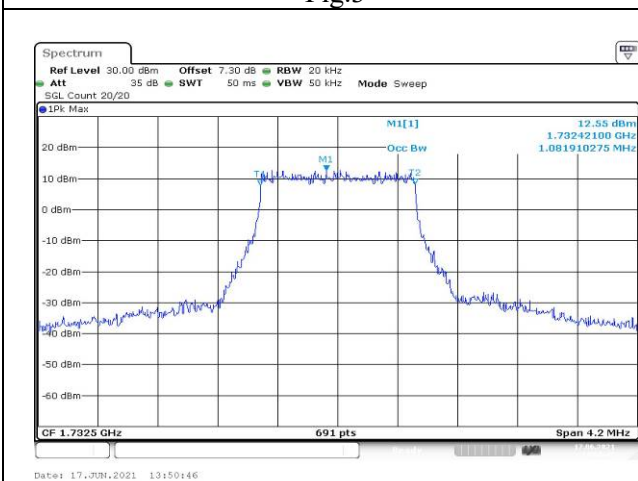


Fig.5

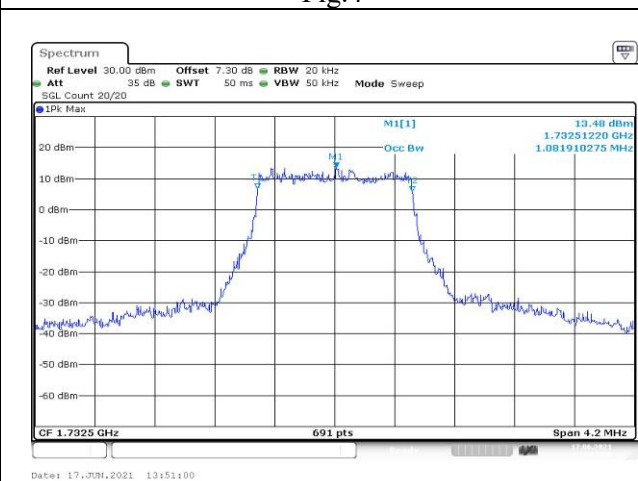


Fig.6

