APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 2

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1850.7	18607	1.4	1	0	20.99
QPSK	1850.7	18607	1.4	1	3	20.99
QPSK	1850.7	18607	1.4	1	5	20.89
QPSK	1850.7	18607	1.4	3	0	21.01
QPSK	1850.7	18607	1.4	3	1	21.00
QPSK	1850.7	18607	1.4	3	3	21.06
QPSK	1850.7	18607	1.4	6	0	20.08
QPSK	1880	18900	1.4	1	0	20.46
QPSK	1880	18900	1.4	1	3	20.60
QPSK	1880	18900	1.4	1	5	20.51
QPSK	1880	18900	1.4	3	0	20.45
QPSK	1880	18900	1.4	3	1	20.59
QPSK	1880	18900	1.4	3	3	20.41
QPSK	1880	18900	1.4	6	0	19.45
QPSK	1909.3	19193	1.4	1	0	21.04
QPSK	1909.3	19193	1.4	1	3	21.16
QPSK	1909.3	19193	1.4	1	5	21.06
QPSK	1909.3	19193	1.4	3	0	21.04
QPSK	1909.3	19193	1.4	3	1	21.11
QPSK	1909.3	19193	1.4	3	3	21.09
QPSK	1909.3	19193	1.4	6	0	20.04

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1850.7	18607	1.4	1	0	20.11
16QAM	1850.7	18607	1.4	1	3	20.10
16QAM	1850.7	18607	1.4	1	5	20.08
16QAM	1850.7	18607	1.4	3	0	20.13
16QAM	1850.7	18607	1.4	3	1	20.16
16QAM	1850.7	18607	1.4	3	3	20.16
16QAM	1850.7	18607	1.4	6	0	19.18
16QAM	1880	18900	1.4	1	0	19.59
16QAM	1880	18900	1.4	1	3	19.69
16QAM	1880	18900	1.4	1	5	19.61
16QAM	1880	18900	1.4	3	0	19.38
16QAM	1880	18900	1.4	3	1	19.37
16QAM	1880	18900	1.4	3	3	19.37
16QAM	1880	18900	1.4	6	0	18.46
16QAM	1909.3	19193	1.4	1	0	20.26
16QAM	1909.3	19193	1.4	1	3	20.32
16QAM	1909.3	19193	1.4	1	5	20.26
16QAM	1909.3	19193	1.4	3	0	19.87
16QAM	1909.3	19193	1.4	3	1	19.88
16QAM	1909.3	19193	1.4	3	3	19.94
16QAM	1909.3	19193	1.4	6	0	19.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	20.88
QPSK	1851.5	18615	3	1	8	20.94
QPSK	1851.5	18615	3	1	14	20.93
QPSK	1851.5	18615	3	8	0	19.97
QPSK	1851.5	18615	3	8	4	19.97
QPSK	1851.5	18615	3	8	7	19.93
QPSK	1851.5	18615	3	15	0	19.97
QPSK	1880	18900	3	1	0	20.52
QPSK	1880	18900	3	1	8	20.58
QPSK	1880	18900	3	1	14	20.50
QPSK	1880	18900	3	8	0	19.52
QPSK	1880	18900	3	8	4	19.54
QPSK	1880	18900	3	8	7	19.51
QPSK	1880	18900	3	15	0	19.51
QPSK	1908.5	19185	3	1	0	21.17
QPSK	1908.5	19185	3	1	8	21.09
QPSK	1908.5	19185	3	1	14	21.17
QPSK	1908.5	19185	3	8	0	20.07
QPSK	1908.5	19185	3	8	4	20.20
QPSK	1908.5	19185	3	8	7	20.18
QPSK	1908.5	19185	3	15	0	20.22

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1851.5	18615	3	1	0	20.52
16QAM	1851.5	18615	3	1	8	20.57
16QAM	1851.5	18615	3	1	14	20.53
16QAM	1851.5	18615	3	8	0	19.09
16QAM	1851.5	18615	3	8	4	19.02
16QAM	1851.5	18615	3	8	7	19.01
16QAM	1851.5	18615	3	15	0	19.04
16QAM	1880	18900	3	1	0	19.68
16QAM	1880	18900	3	1	8	19.75
16QAM	1880	18900	3	1	14	19.72
16QAM	1880	18900	3	8	0	18.35
16QAM	1880	18900	3	8	4	18.42
16QAM	1880	18900	3	8	7	18.43
16QAM	1880	18900	3	15	0	18.54
16QAM	1908.5	19185	3	1	0	20.38
16QAM	1908.5	19185	3	1	8	20.31
16QAM	1908.5	19185	3	1	14	20.40
16QAM	1908.5	19185	3	8	0	19.14
16QAM	1908.5	19185	3	8	4	19.18
16QAM	1908.5	19185	3	8	7	19.08
16QAM	1908.5	19185	3	15	0	19.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	20.96
QPSK	1852.5	18625	5	1	12	20.83
QPSK	1852.5	18625	5	1	24	20.90
QPSK	1852.5	18625	5	12	0	19.95
QPSK	1852.5	18625	5	12	7	19.98
QPSK	1852.5	18625	5	12	13	19.95
QPSK	1852.5	18625	5	25	0	19.93
QPSK	1880	18900	5	1	0	20.57
QPSK	1880	18900	5	1	12	20.49
QPSK	1880	18900	5	1	24	20.61
QPSK	1880	18900	5	12	0	19.55
QPSK	1880	18900	5	12	7	19.55
QPSK	1880	18900	5	12	13	19.59
QPSK	1880	18900	5	25	0	19.50
QPSK	1907.5	19175	5	1	0	21.15
QPSK	1907.5	19175	5	1	12	21.24
QPSK	1907.5	19175	5	1	24	21.29
QPSK	1907.5	19175	5	12	0	20.18
QPSK	1907.5	19175	5	12	7	20.14
QPSK	1907.5	19175	5	12	13	20.19
QPSK	1907.5	19175	5	25	0	20.15

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1852.5	18625	5	1	0	20.28
16QAM	1852.5	18625	5	1	12	20.19
16QAM	1852.5	18625	5	1	24	20.33
16QAM	1852.5	18625	5	12	0	18.97
16QAM	1852.5	18625	5	12	7	18.97
16QAM	1852.5	18625	5	12	13	18.88
16QAM	1852.5	18625	5	25	0	18.92
16QAM	1880	18900	5	1	0	19.88
16QAM	1880	18900	5	1	12	19.92
16QAM	1880	18900	5	1	24	19.95
16QAM	1880	18900	5	12	0	18.50
16QAM	1880	18900	5	12	7	18.54
16QAM	1880	18900	5	12	13	18.52
16QAM	1880	18900	5	25	0	18.57
16QAM	1907.5	19175	5	1	0	20.57
16QAM	1907.5	19175	5	1	12	20.48
16QAM	1907.5	19175	5	1	24	20.44
16QAM	1907.5	19175	5	12	0	19.18
16QAM	1907.5	19175	5	12	7	19.17
16QAM	1907.5	19175	5	12	13	19.19
16QAM	1907.5	19175	5	25	0	19.17

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	20.94
QPSK	1855	18650	10	1	25	20.87
QPSK	1855	18650	10	1	49	20.82
QPSK	1855	18650	10	25	0	19.91
QPSK	1855	18650	10	25	12	19.96
QPSK	1855	18650	10	25	25	19.86
QPSK	1855	18650	10	50	0	19.85
QPSK	1880	18900	10	1	0	20.67
QPSK	1880	18900	10	1	25	20.55
QPSK	1880	18900	10	1	49	20.58
QPSK	1880	18900	10	25	0	19.59
QPSK	1880	18900	10	25	12	19.59
QPSK	1880	18900	10	25	25	19.58
QPSK	1880	18900	10	50	0	19.55
QPSK	1905	19150	10	1	0	20.98
QPSK	1905	19150	10	1	25	21.21
QPSK	1905	19150	10	1	49	21.19
QPSK	1905	19150	10	25	0	20.03
QPSK	1905	19150	10	25	12	20.01
QPSK	1905	19150	10	25	25	20.19
QPSK	1905	19150	10	50	0	19.99

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1855	18650	10	1	0	20.50
16QAM	1855	18650	10	1	25	20.54
16QAM	1855	18650	10	1	49	20.42
16QAM	1855	18650	10	25	0	18.98
16QAM	1855	18650	10	25	12	18.92
16QAM	1855	18650	10	25	25	18.86
16QAM	1855	18650	10	50	0	18.88
16QAM	1880	18900	10	1	0	20.00
16QAM	1880	18900	10	1	25	19.77
16QAM	1880	18900	10	1	49	19.72
16QAM	1880	18900	10	25	0	18.57
16QAM	1880	18900	10	25	12	18.65
16QAM	1880	18900	10	25	25	18.61
16QAM	1880	18900	10	50	0	18.55
16QAM	1905	19150	10	1	0	20.19
16QAM	1905	19150	10	1	25	20.39
16QAM	1905	19150	10	1	49	20.30
16QAM	1905	19150	10	25	0	19.01
16QAM	1905	19150	10	25	12	19.08
16QAM	1905	19150	10	25	25	19.15
16QAM	1905	19150	10	50	0	19.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	20.97
QPSK	1857.5	18675	15	1	37	20.80
QPSK	1857.5	18675	15	1	74	20.57
QPSK	1857.5	18675	15	36	0	19.96
QPSK	1857.5	18675	15	36	29	19.82
QPSK	1857.5	18675	15	36	30	19.80
QPSK	1857.5	18675	15	75	0	19.88
QPSK	1880	18900	15	1	0	20.72
QPSK	1880	18900	15	1	37	20.59
QPSK	1880	18900	15	1	74	20.65
QPSK	1880	18900	15	36	0	19.60
QPSK	1880	18900	15	36	29	19.63
QPSK	1880	18900	15	36	30	19.58
QPSK	1880	18900	15	75	0	19.62
QPSK	1902.5	19125	15	1	0	20.90
QPSK	1902.5	19125	15	1	37	20.88
QPSK	1902.5	19125	15	1	74	21.08
QPSK	1902.5	19125	15	36	0	19.92
QPSK	1902.5	19125	15	36	29	20.06
QPSK	1902.5	19125	15	36	30	20.06
QPSK	1902.5	19125	15	75	0	20.03

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1857.5	18675	15	1	0	20.57
16QAM	1857.5	18675	15	1	37	20.43
16QAM	1857.5	18675	15	1	74	20.24
16QAM	1857.5	18675	15	36	0	19.01
16QAM	1857.5	18675	15	36	29	18.82
16QAM	1857.5	18675	15	36	30	18.86
16QAM	1857.5	18675	15	75	0	18.90
16QAM	1880	18900	15	1	0	19.82
16QAM	1880	18900	15	1	37	19.84
16QAM	1880	18900	15	1	74	19.79
16QAM	1880	18900	15	36	0	18.64
16QAM	1880	18900	15	36	29	18.60
16QAM	1880	18900	15	36	30	18.59
16QAM	1880	18900	15	75	0	18.58
16QAM	1902.5	19125	15	1	0	20.26
16QAM	1902.5	19125	15	1	37	20.36
16QAM	1902.5	19125	15	1	74	20.50
16QAM	1902.5	19125	15	36	0	19.00
16QAM	1902.5	19125	15	36	29	19.12
16QAM	1902.5	19125	15	36	30	19.04
16QAM	1902.5	19125	15	75	0	18.98

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	21.03
QPSK	1860	18700	20	1	49	20.82
QPSK	1860	18700	20	1	99	20.59
QPSK	1860	18700	20	50	0	19.91
QPSK	1860	18700	20	50	24	19.81
QPSK	1860	18700	20	50	50	19.78
QPSK	1860	18700	20	100	0	19.89
QPSK	1880	18900	20	1	0	20.64
QPSK	1880	18900	20	1	49	20.64
QPSK	1880	18900	20	1	99	20.75
QPSK	1880	18900	20	50	0	19.62
QPSK	1880	18900	20	50	24	19.54
QPSK	1880	18900	20	50	50	19.51
QPSK	1880	18900	20	100	0	19.61
QPSK	1900	19100	20	1	0	20.61
QPSK	1900	19100	20	1	49	20.96
QPSK	1900	19100	20	1	99	21.08
QPSK	1900	19100	20	50	0	19.76
QPSK	1900	19100	20	50	24	19.91
QPSK	1900	19100	20	50	50	19.98
QPSK	1900	19100	20	100	0	19.93

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1860	18700	20	1	0	20.35
16QAM	1860	18700	20	1	49	20.12
16QAM	1860	18700	20	1	99	19.80
16QAM	1860	18700	20	50	0	18.89
16QAM	1860	18700	20	50	24	18.81
16QAM	1860	18700	20	50	50	18.79
16QAM	1860	18700	20	100	0	18.91
16QAM	1880	18900	20	1	0	19.93
16QAM	1880	18900	20	1	49	19.89
16QAM	1880	18900	20	1	99	20.01
16QAM	1880	18900	20	50	0	18.59
16QAM	1880	18900	20	50	24	18.58
16QAM	1880	18900	20	50	50	18.53
16QAM	1880	18900	20	100	0	18.56
16QAM	1900	19100	20	1	0	19.91
16QAM	1900	19100	20	1	49	20.24
16QAM	1900	19100	20	1	99	20.39
16QAM	1900	19100	20	50	0	18.73
16QAM	1900	19100	20	50	24	18.95
16QAM	1900	19100	20	50	50	18.97
16QAM	1900	19100	20	100	0	18.95

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
2	QPSK	1850.7	18607	1.4	6	0	1.088	Fig.1
2	QPSK	1880	18900	1.4	6	0	1.082	Fig.2
2	QPSK	1909.3	19193	1.4	6	0	1.082	Fig.3
2	QPSK	1851.5	18615	3	15	0	2.683	Fig.4
2	QPSK	1880	18900	3	15	0	2.683	Fig.5
2	QPSK	1908.5	19185	3	15	0	2.683	Fig.6
2	QPSK	1852.5	18625	5	25	0	4.493	Fig.7
2	QPSK	1880	18900	5	25	0	4.472	Fig.8
2	QPSK	1907.5	19175	5	25	0	4.472	Fig.9
2	QPSK	1855	18650	10	50	0	8.944	Fig.10
2	QPSK	1880	18900	10	50	0	8.944	Fig.11
2	QPSK	1905	19150	10	50	0	8.944	Fig.12
2	QPSK	1857.5	18675	15	75	0	13.415	Fig.13
2	QPSK	1880	18900	15	75	0	13.480	Fig.14
2	QPSK	1902.5	19125	15	75	0	13.415	Fig.15
2	QPSK	1860	18700	20	100	0	17.887	Fig.16
2	QPSK	1880	18900	20	100	0	17.887	Fig.17
2	QPSK	1900	19100	20	100	0	17.887	Fig.18

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
2	16QAM	1850.7	18607	1.4	6	0	1.082	Fig.19
2	16QAM	1880	18900	1.4	6	0	1.088	Fig.20
2	16QAM	1909.3	19193	1.4	6	0	1.082	Fig.21
2	16QAM	1851.5	18615	3	15	0	2.683	Fig.22
2	16QAM	1880	18900	3	15	0	2.696	Fig.23
2	16QAM	1908.5	19185	3	15	0	2.696	Fig.24
2	16QAM	1852.5	18625	5	25	0	4.472	Fig.25
2	16QAM	1880	18900	5	25	0	4.472	Fig.26
2	16QAM	1907.5	19175	5	25	0	4.472	Fig.27
2	16QAM	1855	18650	10	50	0	8.944	Fig.28
2	16QAM	1880	18900	10	50	0	8.944	Fig.29
2	16QAM	1905	19150	10	50	0	8.944	Fig.30
2	16QAM	1857.5	18675	15	75	0	13.415	Fig.31
2	16QAM	1880	18900	15	75	0	13.415	Fig.32
2	16QAM	1902.5	19125	15	75	0	13.415	Fig.33
2	16QAM	1860	18700	20	100	0	17.887	Fig.34
2	16QAM	1880	18900	20	100	0	17.887	Fig.35
2	16QAM	1900	19100	20	100	0	17.887	Fig.36

Test Mode: QPSK

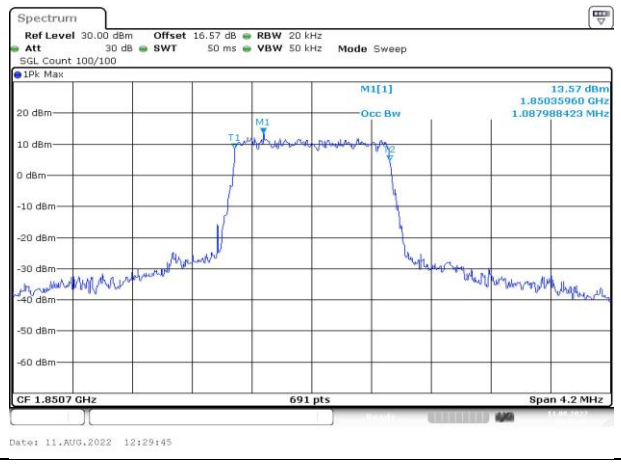

Fig.1

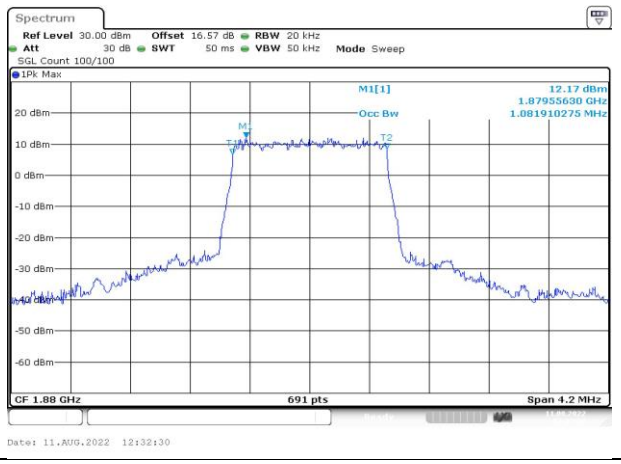

Fig.2

Fig.3

Fig.4

Fig.5

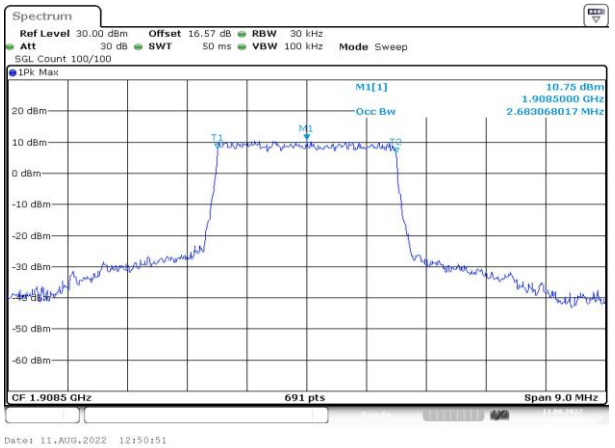

Fig.6

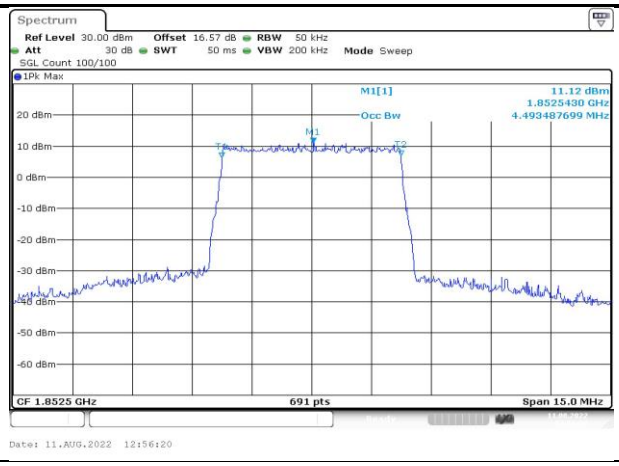

Fig.7

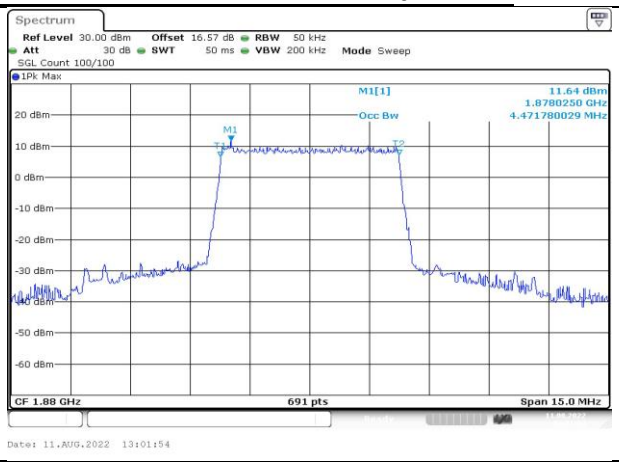

Fig.8

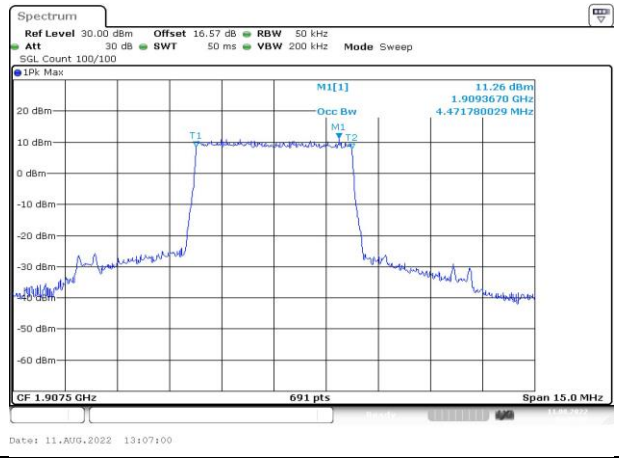

Fig.9

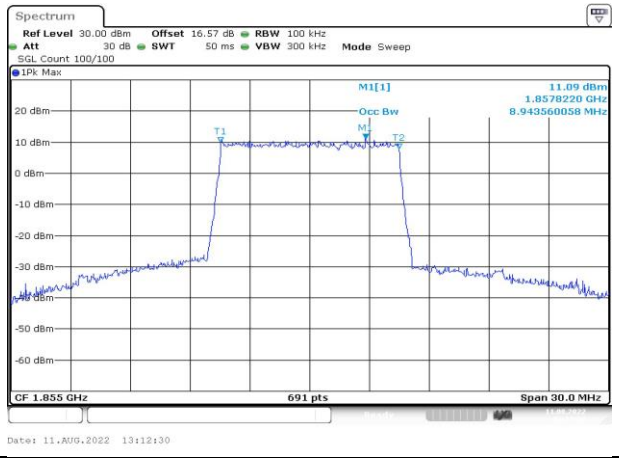

Fig.10

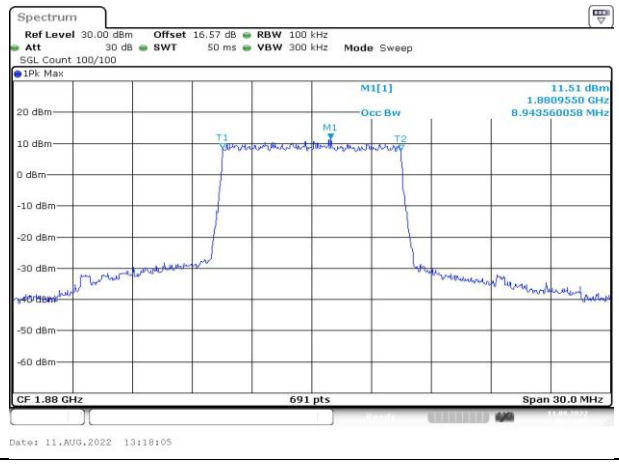

Fig.11

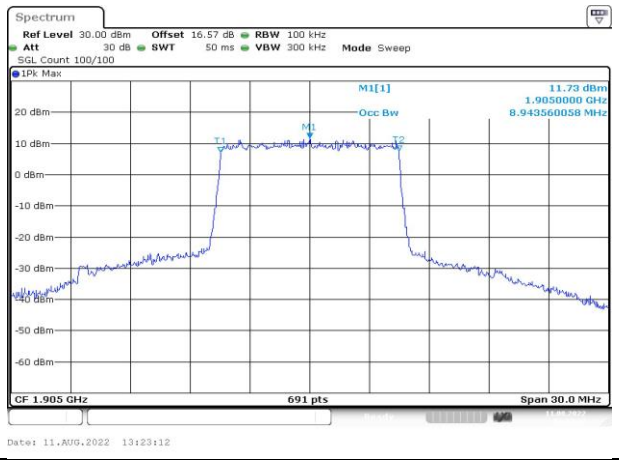

Fig.12

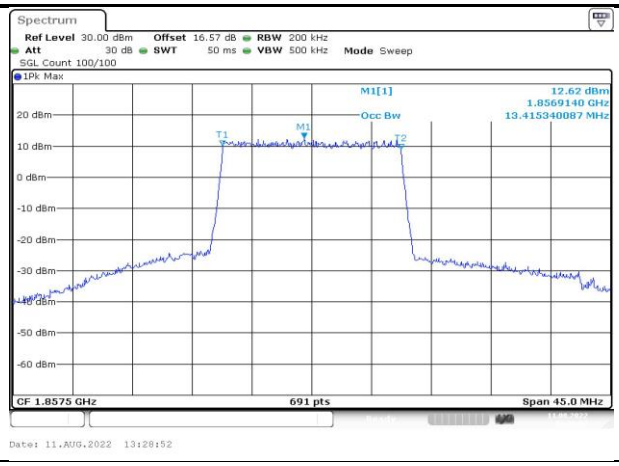

Fig.13

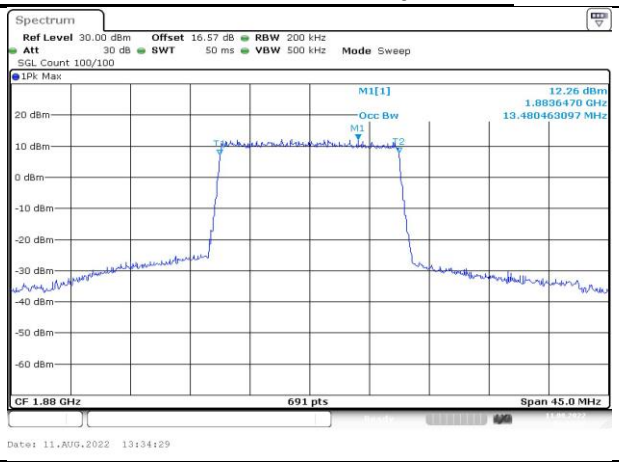

Fig.14

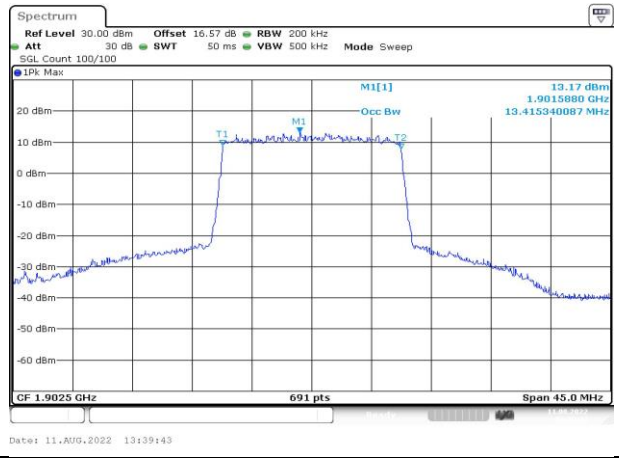

Fig.15

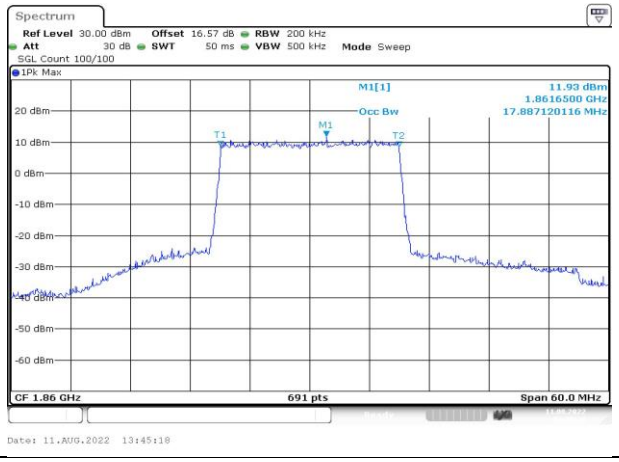

Fig.16

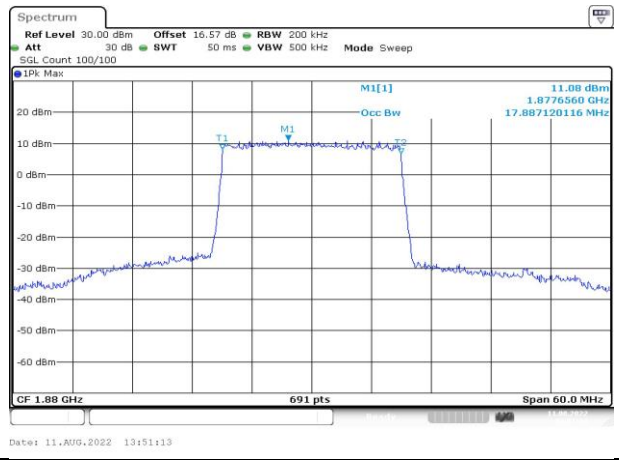

Fig.17

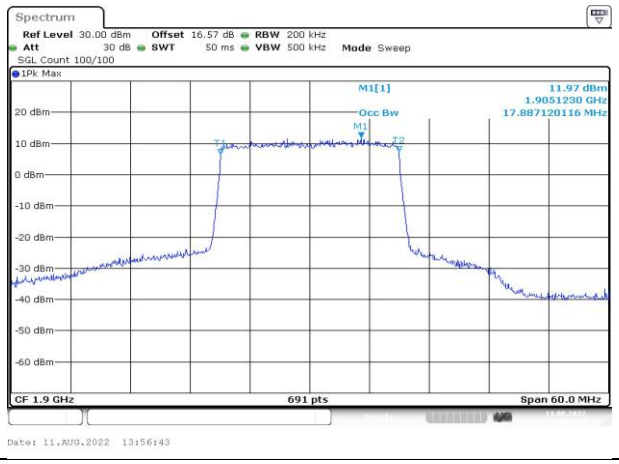

Fig.18

Test Mode: 16QAM

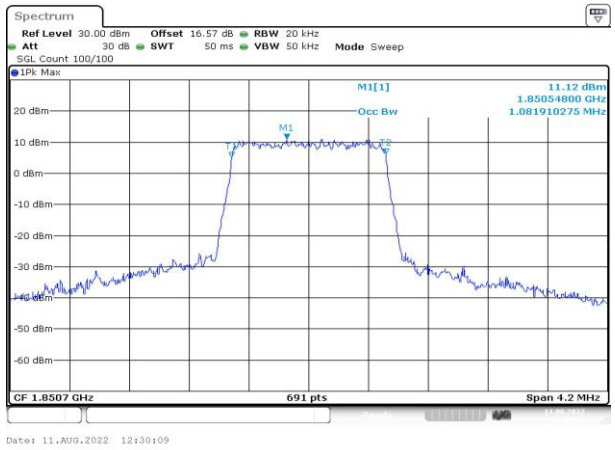

Fig.19

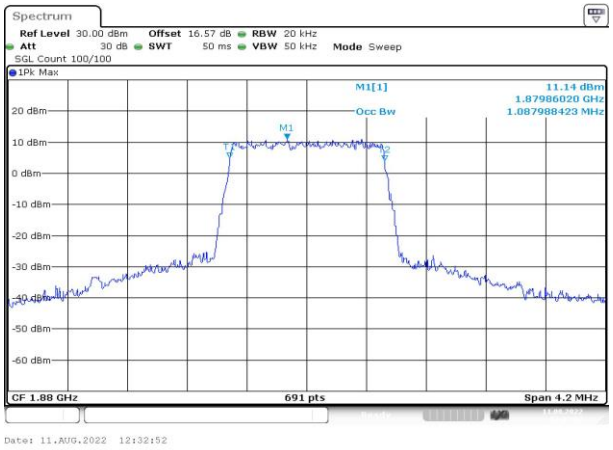

Fig.20

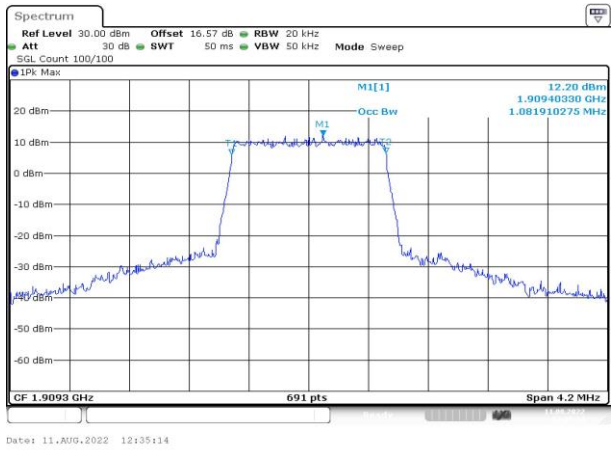

Fig.21

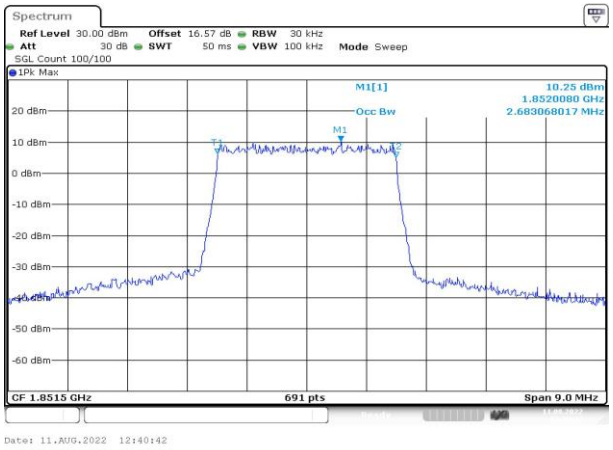

Fig.22

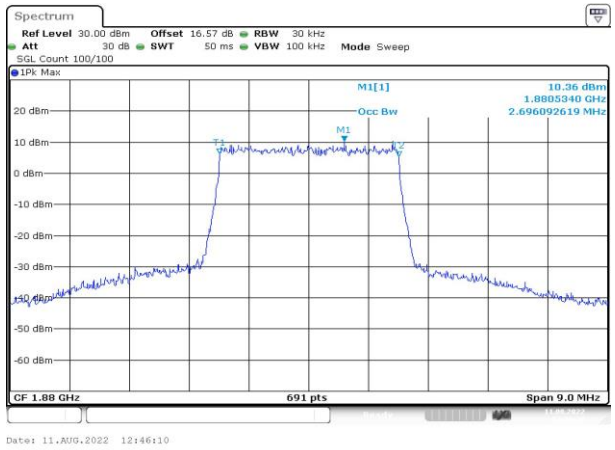

Fig.23

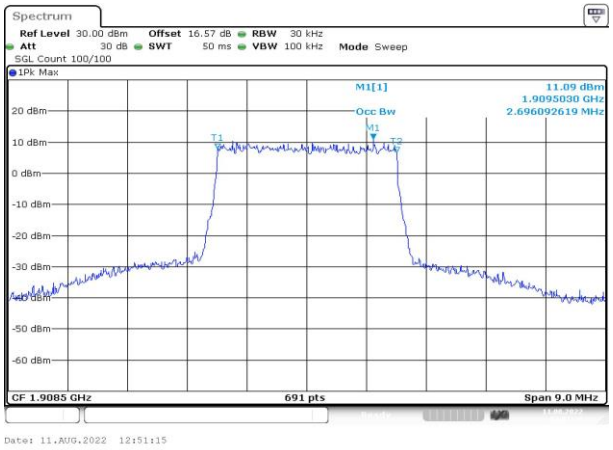

Fig.24

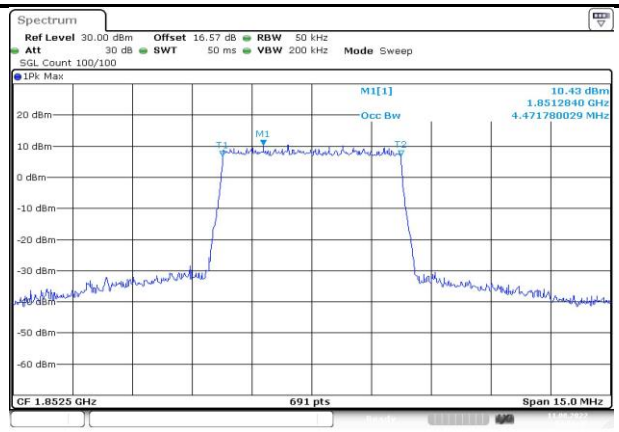

Fig.25

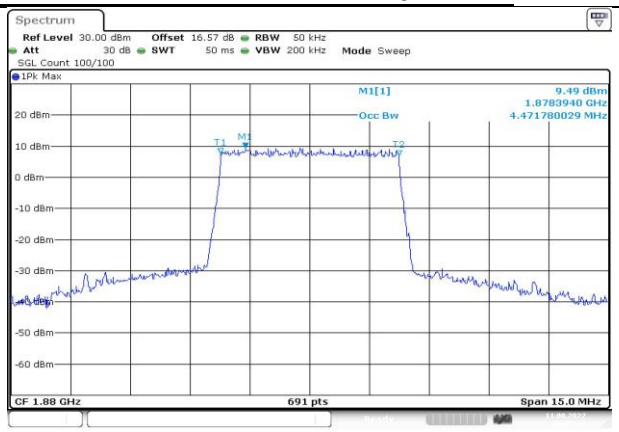

Fig.26

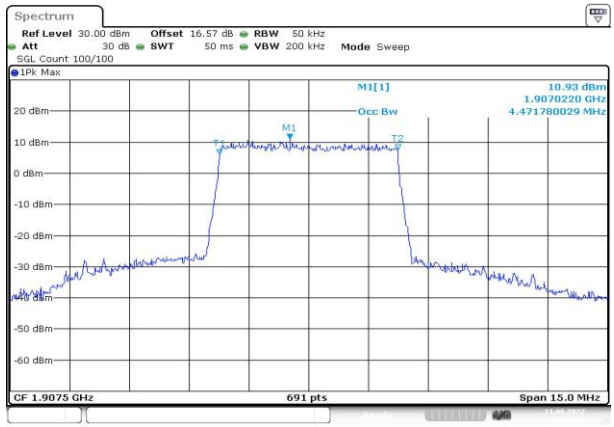

Fig.27

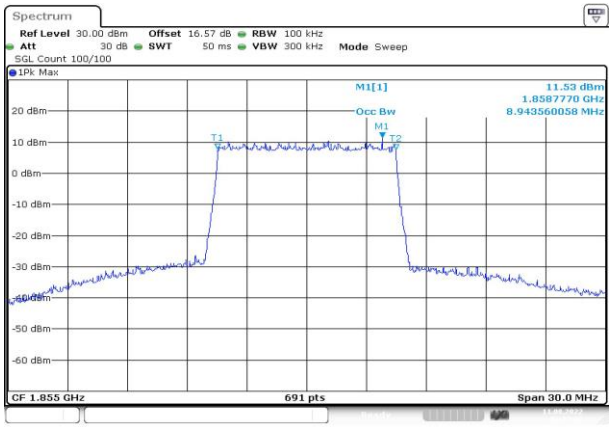

Fig.28

Fig.29

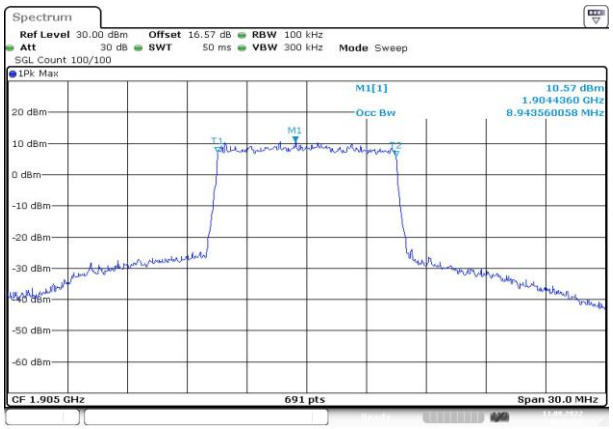

Fig.30

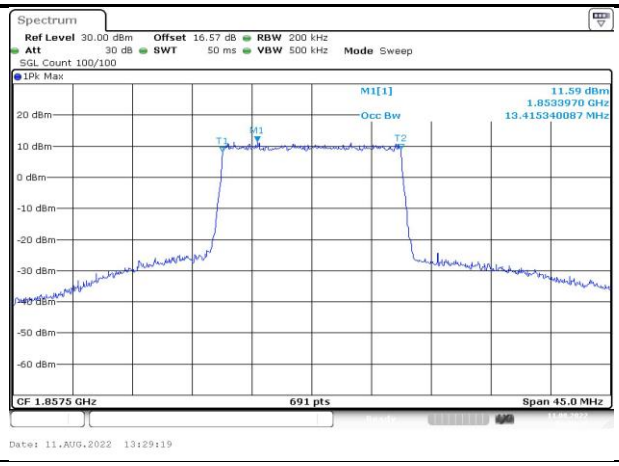

Fig.31

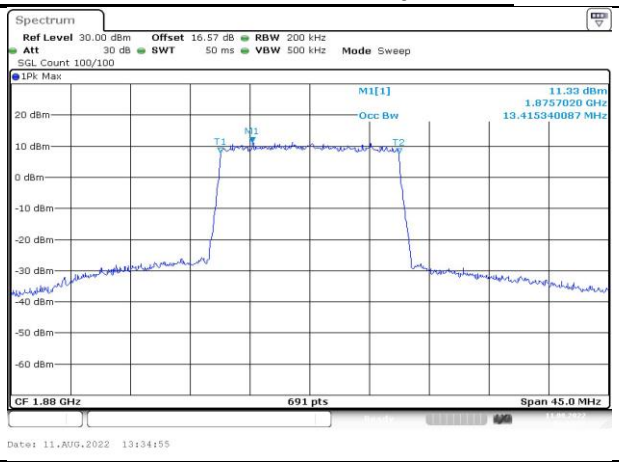

Fig.32

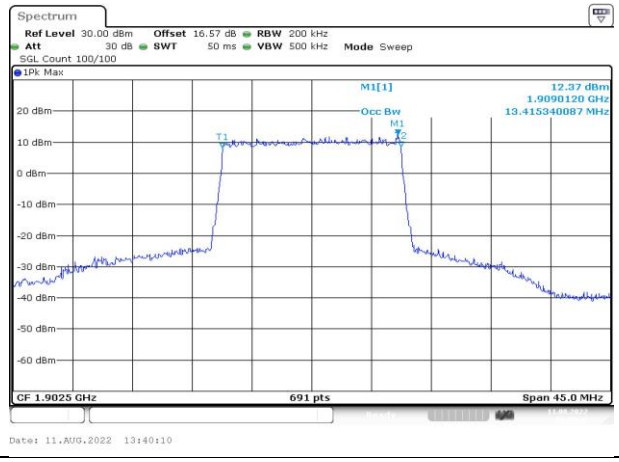

Fig.33

Fig.34

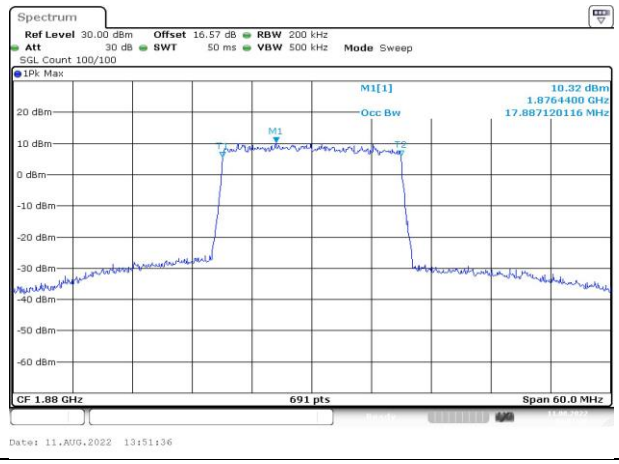

Fig.35

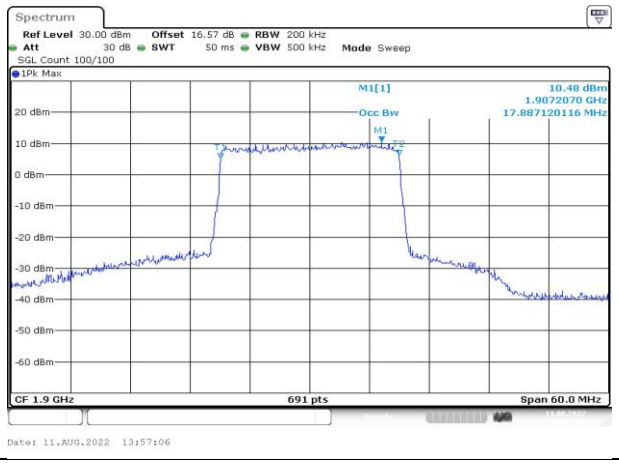

Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
2	QPSK	1850.7	18607	1.4	6	0	1.222	Fig.1
2	QPSK	1880	18900	1.4	6	0	1.216	Fig.2
2	QPSK	1909.3	19193	1.4	6	0	1.222	Fig.3
2	QPSK	1851.5	18615	3	15	0	2.944	Fig.4
2	QPSK	1880	18900	3	15	0	2.931	Fig.5
2	QPSK	1908.5	19185	3	15	0	2.944	Fig.6
2	QPSK	1852.5	18625	5	25	0	4.928	Fig.7
2	QPSK	1880	18900	5	25	0	4.863	Fig.8
2	QPSK	1907.5	19175	5	25	0	4.884	Fig.9
2	QPSK	1855	18650	10	50	0	9.725	Fig.10
2	QPSK	1880	18900	10	50	0	9.638	Fig.11
2	QPSK	1905	19150	10	50	0	9.682	Fig.12
2	QPSK	1857.5	18675	15	75	0	14.588	Fig.13
2	QPSK	1880	18900	15	75	0	14.588	Fig.14
2	QPSK	1902.5	19125	15	75	0	14.522	Fig.15
2	QPSK	1860	18700	20	100	0	19.190	Fig.16
2	QPSK	1880	18900	20	100	0	19.190	Fig.17
2	QPSK	1900	19100	20	100	0	19.103	Fig.18

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
2	16QAM	1850.7	18607	1.4	6	0	1.216	Fig.19
2	16QAM	1880	18900	1.4	6	0	1.234	Fig.20
2	16QAM	1909.3	19193	1.4	6	0	1.228	Fig.21
2	16QAM	1851.5	18615	3	15	0	2.944	Fig.22
2	16QAM	1880	18900	3	15	0	2.944	Fig.23
2	16QAM	1908.5	19185	3	15	0	2.957	Fig.24
2	16QAM	1852.5	18625	5	25	0	4.884	Fig.25
2	16QAM	1880	18900	5	25	0	4.906	Fig.26
2	16QAM	1907.5	19175	5	25	0	4.884	Fig.27
2	16QAM	1855	18650	10	50	0	9.638	Fig.28
2	16QAM	1880	18900	10	50	0	9.595	Fig.29
2	16QAM	1905	19150	10	50	0	9.595	Fig.30
2	16QAM	1857.5	18675	15	75	0	14.522	Fig.31
2	16QAM	1880	18900	15	75	0	14.522	Fig.32
2	16QAM	1902.5	19125	15	75	0	14.588	Fig.33
2	16QAM	1860	18700	20	100	0	19.190	Fig.34
2	16QAM	1880	18900	20	100	0	19.190	Fig.35
2	16QAM	1900	19100	20	100	0	19.190	Fig.36

Test Mode: QPSK

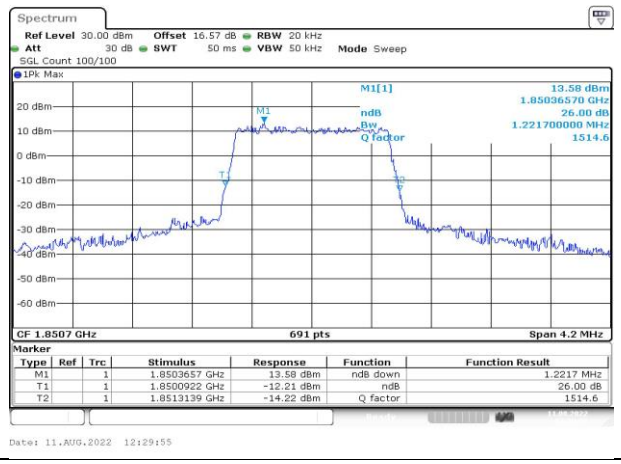

Fig.1

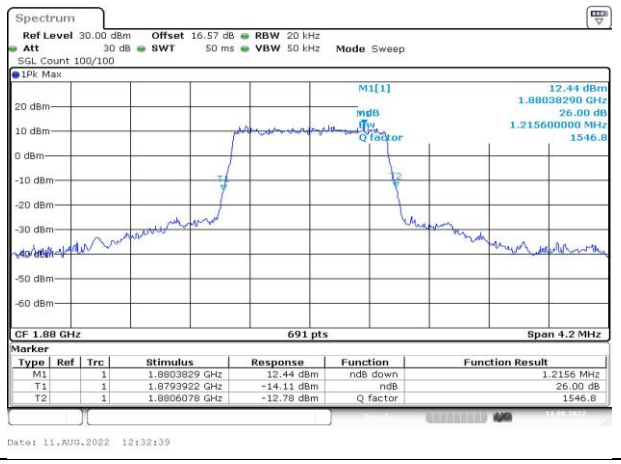

Fig.2

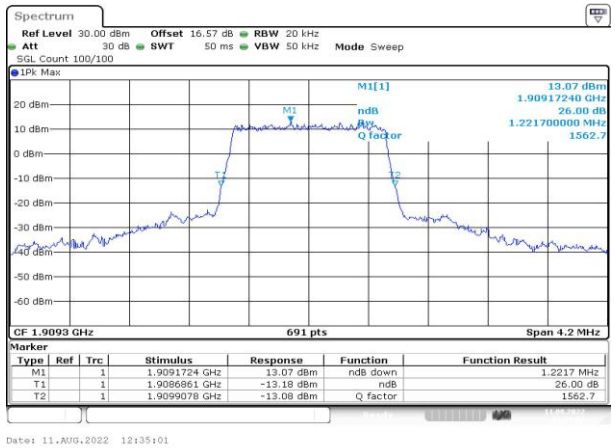

Fig.3

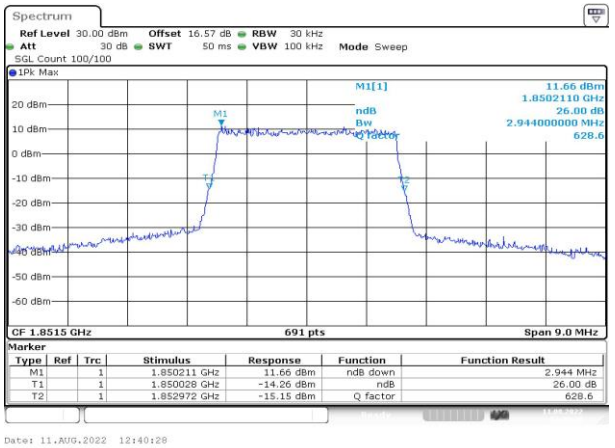

Fig.4

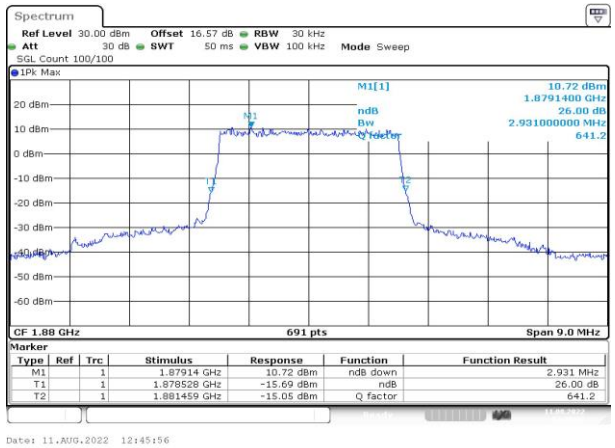

Fig.5

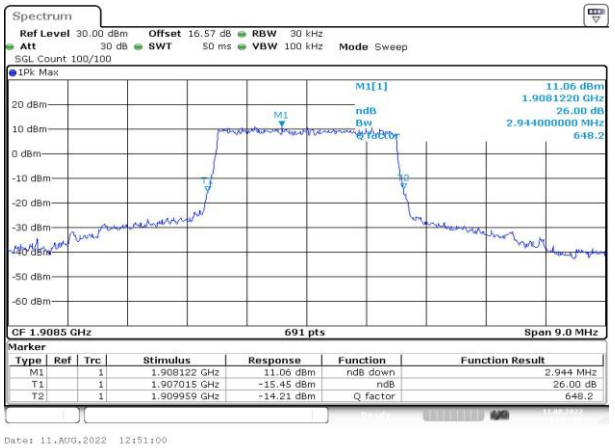

Fig.6

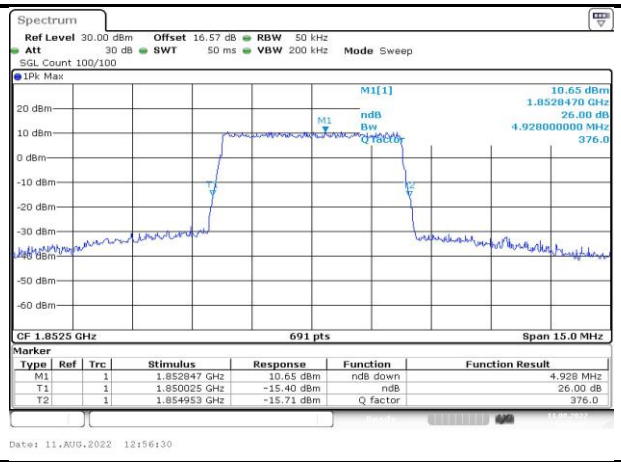

Fig.7

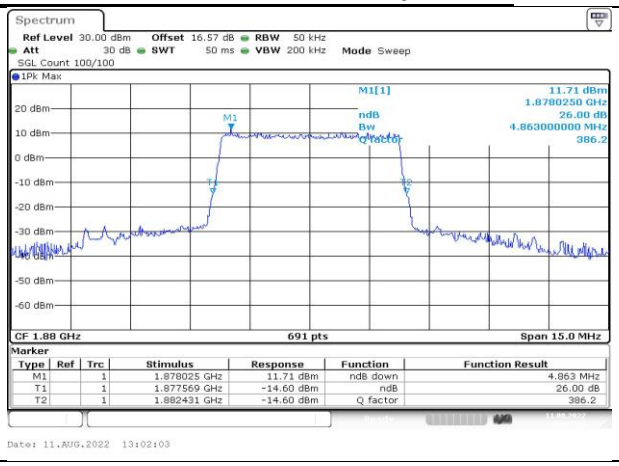

Fig.8

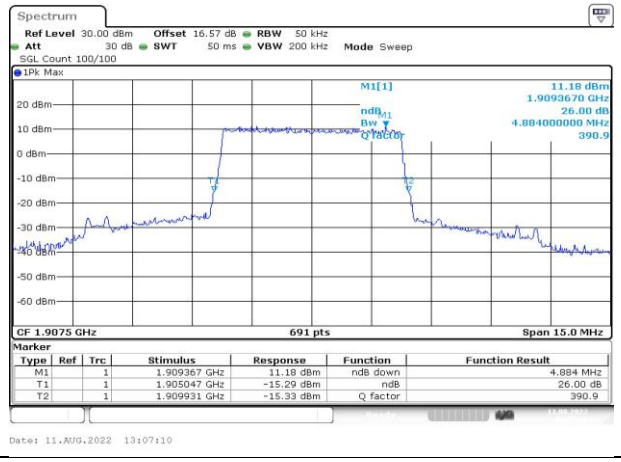

Fig.9

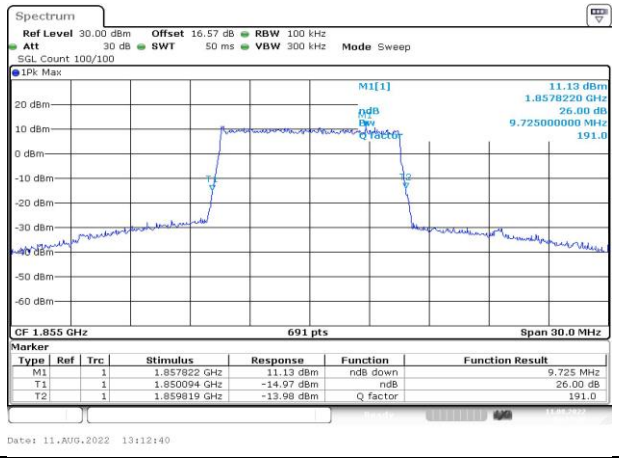

Fig.10

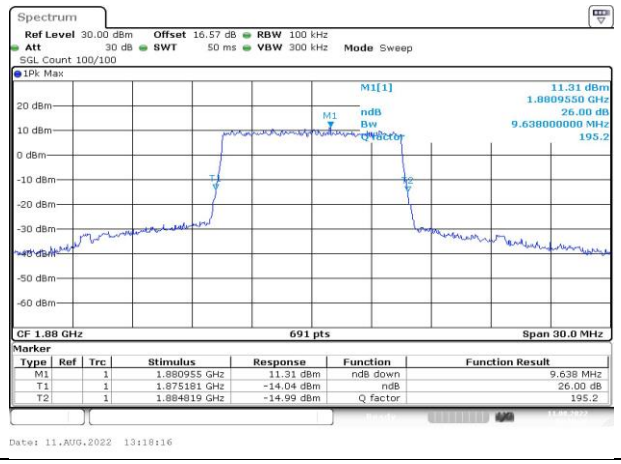

Fig.11

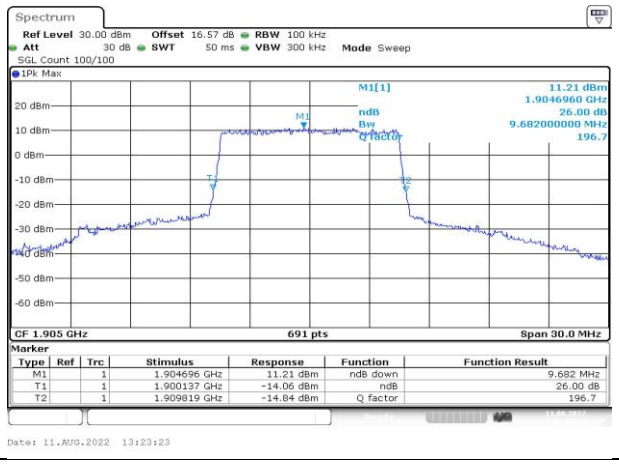

Fig.12

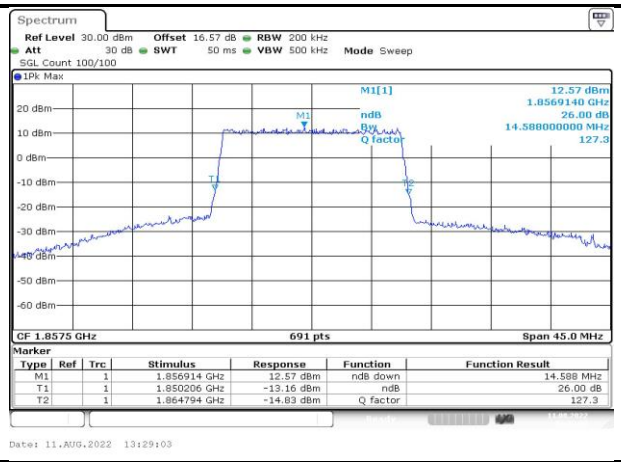

Fig.13

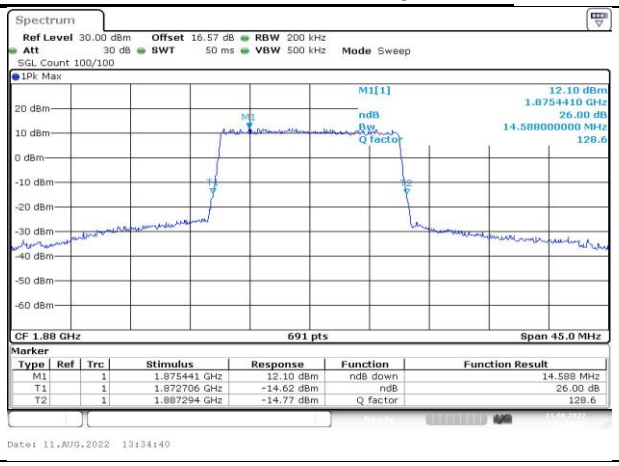

Fig.14

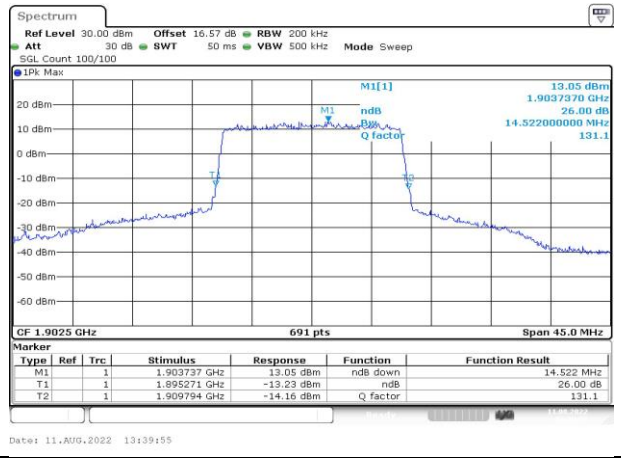

Fig.15

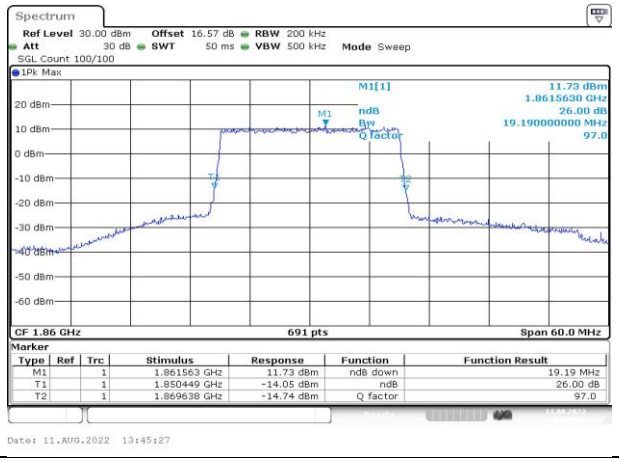

Fig.16

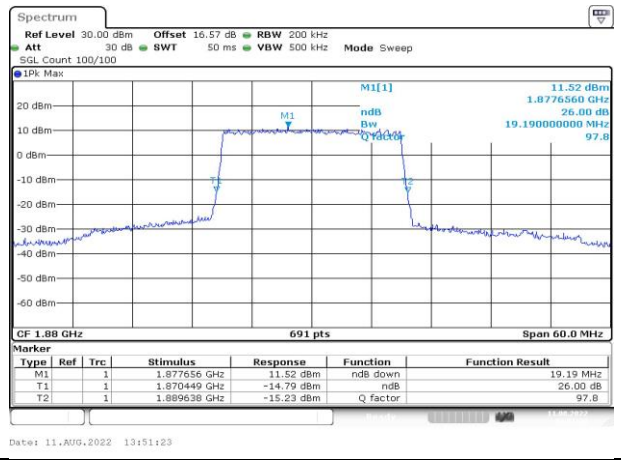

Fig.17

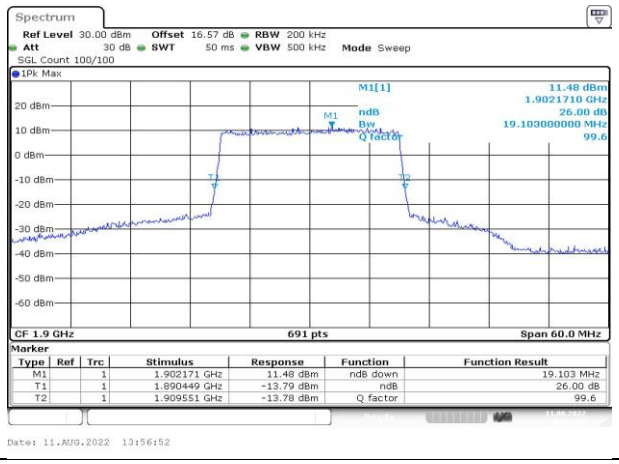

Fig.18

Test Mode: 16QAM

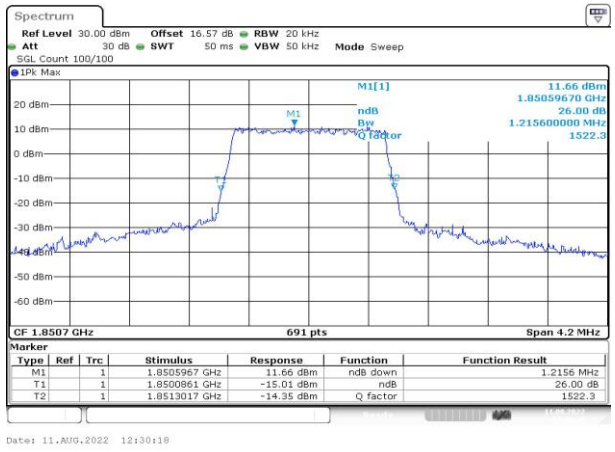

Fig.19

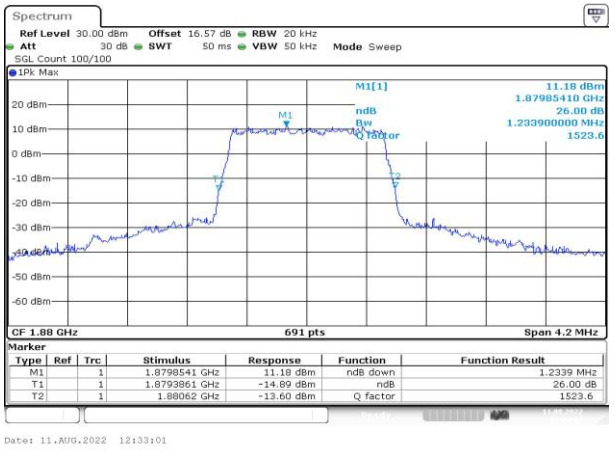

Fig.20

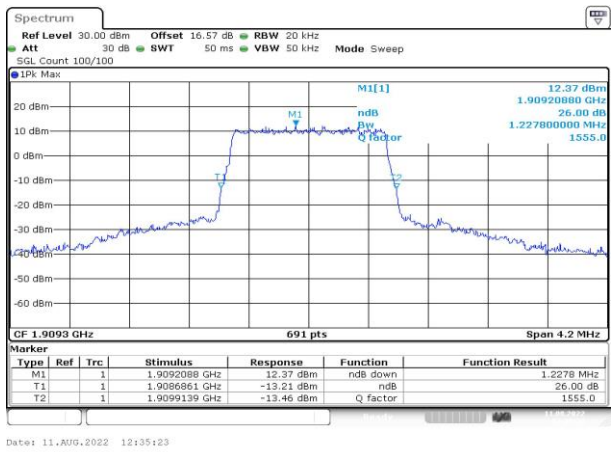

Fig.21

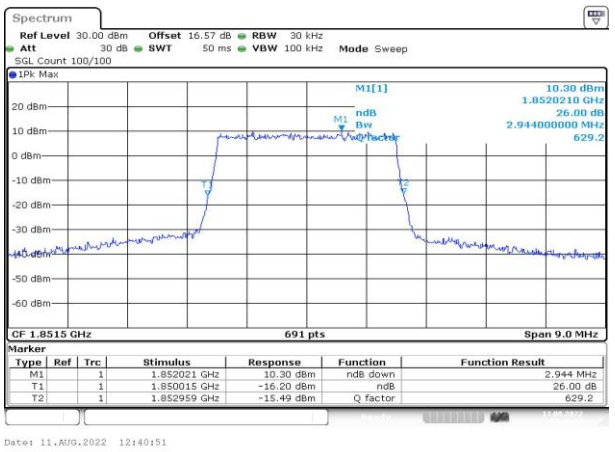

Fig.22

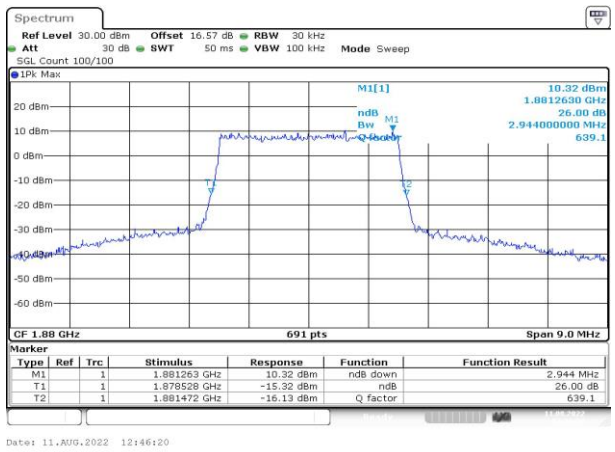

Fig.23

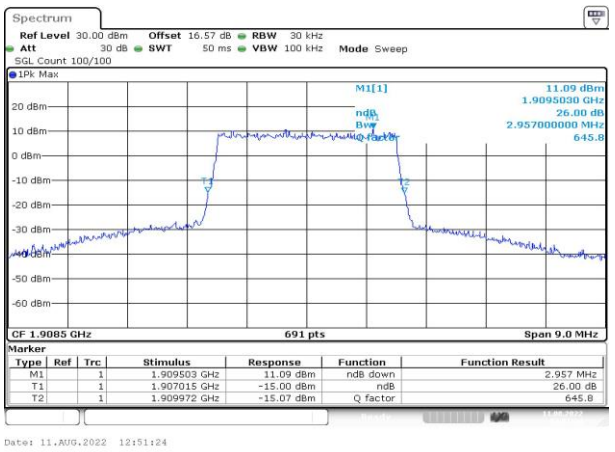

Fig.24