APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 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	23.72
				1	3	23.19
				1	5	23.22
				3	0	23.31
				3	1	23.26
				3	3	23.41
				6	0	22.35
	1732.5	20175		1	0	23.29
				1	3	23.40
				1	5	23.34
				3	0	23.37
				3	1	23.32
				3	3	23.37
				6	0	22.40
	1754.3	20393		1	0	23.41
				1	3	23.45
				1	5	23.44
				3	0	23.57
				3	1	23.58
				3	3	23.59
				6	0	22.57
16QAM	1710.7	19957		1	0	22.41
				1	3	22.36
				1	5	22.39
				3	0	22.50
				3	1	22.48
				3	3	22.50
				6	0	21.32
	1732.5	20175		1	0	22.43
				1	3	22.43
				1	5	22.50
				3	0	22.31
				3	1	22.36
				3	3	22.38
				6	0	21.52
	1754.3	20393		1	0	22.52
				1	3	22.62
				1	5	22.58
				3	0	22.62
				3	1	22.74
				3	3	22.54
				6	0	21.45

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	21.35
				1	3	21.34
				1	5	21.35
				3	0	21.37
				3	1	21.39
				3	3	21.41
				6	0	21.31
	1732.5	20175		1	0	21.42
				1	3	21.42
				1	5	21.42
				3	0	21.44
				3	1	21.44
				3	3	21.43
				6	0	21.41
	1754.3	20393		1	0	21.47
				1	3	21.42
				1	5	21.46
				3	0	21.43
				3	1	21.41
				3	3	21.44
				6	0	21.40

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.37
				1	8	23.28
				1	14	23.32
				8	0	22.33
				8	4	22.30
				8	7	22.39
				15	0	22.38
	1732.5	20175		1	0	23.37
				1	8	23.42
				1	14	23.39
				8	0	22.33
				8	4	22.36
				8	7	22.35
				15	0	22.34
	1753.5	20385		1	0	23.49
				1	8	23.49
				1	14	23.52
				8	0	22.55
				8	4	22.50
				8	7	22.57
				15	0	22.55
16QAM	1711.5	19965		1	0	22.89
				1	8	22.94
				1	14	22.97
				8	0	21.53
				8	4	21.57
				8	7	21.50
				15	0	21.39
	1732.5	20175		1	0	22.48
				1	8	22.51
				1	14	22.48
				8	0	21.42
				8	4	21.31
				8	7	21.40
				15	0	21.33
	1753.5	20385		1	0	22.59
				1	8	22.62
				1	14	22.55
				8	0	21.56
				8	4	21.50
				8	7	21.45
				15	0	21.49

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	21.38
				1	8	21.39
				1	14	21.32
				8	0	21.36
				8	4	21.42
				8	7	21.41
				15	0	21.43
	1732.5	20175		1	0	21.32
				1	8	21.30
				1	14	21.27
				8	0	21.31
				8	4	21.36
				8	7	21.30
				15	0	21.31
	1753.5	20385		1	0	21.53
				1	8	21.55
				1	14	21.53
				8	0	21.54
				8	4	21.50
				8	7	21.56
				15	0	21.48

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.34
				1	12	23.27
				1	24	23.32
				12	0	22.40
				12	7	22.43
				12	13	22.43
				25	0	22.38
	1732.5	20175		1	0	23.28
				1	12	23.29
				1	24	23.25
				12	0	22.28
				12	7	22.40
				12	13	22.40
				25	0	22.36
	1752.5	20375		1	0	23.43
				1	12	23.41
				1	24	23.47
				12	0	22.48
				12	7	22.55
				12	13	22.50
				25	0	22.49
16QAM	1712.5	19975		1	0	22.28
				1	12	22.25
				1	24	22.31
				12	0	21.35
				12	7	21.36
				12	13	21.41
				25	0	21.43
	1732.5	20175		1	0	22.59
				1	12	22.51
				1	24	22.54
				12	0	21.39
				12	7	21.40
				12	13	21.35
				25	0	21.38
	1752.5	20375		1	0	22.50
				1	12	22.57
				1	24	22.48
				12	0	21.45
				12	7	21.42
				12	13	21.43
				25	0	21.51

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	21.42
				1	12	21.44
				1	24	21.46
				12	0	21.39
				12	7	21.44
				12	13	21.41
				25	0	21.37
	1732.5	20175		1	0	21.35
				1	12	21.31
				1	24	21.32
				12	0	21.37
				12	7	21.37
				12	13	21.39
				25	0	21.36
	1752.5	20375		1	0	21.50
				1	12	21.57
				1	24	21.51
				12	0	21.51
				12	7	21.49
				12	13	21.56
				25	0	21.53

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	23.34
				1	25	23.29
				1	49	23.27
				25	0	22.43
				25	12	22.43
				25	25	22.39
				50	0	22.42
	1732.5	20175		1	0	23.39
				1	25	23.40
				1	49	23.43
				25	0	22.42
				25	12	22.41
				25	25	22.49
				50	0	22.45
	1750	20350		1	0	23.39
				1	25	23.48
				1	49	23.43
				25	0	22.57
				25	12	22.53
				25	25	22.50
				50	0	22.59
16QAM	1715	20000		1	0	23.04
				1	25	22.93
				1	49	22.91
				25	0	21.44
				25	12	21.46
				25	25	21.44
				50	0	21.36
	1732.5	20175		1	0	22.53
				1	25	22.52
				1	49	22.53
				25	0	21.43
				25	12	21.43
				25	25	21.45
				50	0	21.47
	1750	20350		1	0	22.57
				1	25	22.53
				1	49	22.55
				25	0	21.61
				25	12	21.68
				25	25	21.59
				50	0	21.53

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	21.38
				1	25	21.36
				1	49	21.39
				25	0	21.34
				25	12	21.38
				25	25	21.37
				50	0	21.38
	1732.5	20175		1	0	21.40
				1	25	21.46
				1	49	21.41
				25	0	21.40
				25	12	21.42
				25	25	21.42
				50	0	21.43
	1750	20350		1	0	21.59
				1	25	21.58
				1	49	21.59
				25	0	21.57
				25	12	21.52
				25	25	21.58
				50	0	21.55

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.27
				1	37	23.22
				1	74	23.20
				36	0	22.41
				36	29	22.36
				36	30	22.41
				75	0	22.46
	1732.5	20175		1	0	23.30
				1	37	23.27
				1	74	23.33
				36	0	22.37
				36	29	22.41
				36	30	22.40
				75	0	22.47
	1747.5	20325		1	0	23.34
				1	37	23.36
				1	74	23.47
				36	0	22.49
				36	29	22.56
				36	30	22.57
				75	0	22.52
16QAM	1717.5	20025		1	0	22.93
				1	37	22.80
				1	74	22.79
				36	0	21.43
				36	29	21.38
				36	30	21.33
				75	0	21.33
	1732.5	20175		1	0	22.43
				1	37	22.45
				1	74	22.49
				36	0	21.37
				36	29	21.39
				36	30	21.40
				75	0	21.40
	1747.5	20325		1	0	22.85
				1	37	22.86
				1	74	22.87
				36	0	21.47
				36	29	21.51
				36	30	21.58
				75	0	21.47

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	21.42
				1	37	21.34
				1	74	21.35
				36	0	21.41
				36	29	21.41
				36	30	21.39
				75	0	21.37
	1732.5	20175		1	0	21.46
				1	37	21.41
				1	74	21.41
				36	0	21.42
				36	29	21.39
				36	30	21.43
				75	0	21.40
	1747.5	20325		1	0	21.46
				1	37	21.53
				1	74	21.53
				36	0	21.53
				36	29	21.51
				36	30	21.43
				75	0	21.52

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	23.15
				1	49	23.04
				1	99	23.01
				50	0	22.36
				50	24	22.33
				50	50	22.33
				100	0	22.40
	1732.5	20175		1	0	23.26
				1	49	23.15
				1	99	23.27
				50	0	22.44
				50	24	22.39
				50	50	22.46
				100	0	22.38
	1745	20300		1	0	23.17
				1	49	23.23
				1	99	23.30
				50	0	22.42
				50	24	22.63
				50	50	22.60
				100	0	22.48
16QAM	1720	20050		1	0	22.48
				1	49	22.33
				1	99	22.38
				50	0	21.37
				50	24	21.30
				50	50	21.30
				100	0	21.35
	1732.5	20175		1	0	22.38
				1	49	22.45
				1	99	22.47
				50	0	21.39
				50	24	21.36
				50	50	21.44
				100	0	21.35
	1745	20300		1	0	22.70
				1	49	22.82
				1	99	22.84
				50	0	21.38
				50	24	21.54
				50	50	21.60
				100	0	21.49

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	21.40
				1	49	21.40
				1	99	21.36
				50	0	21.36
				50	24	21.40
				50	50	21.35
				100	0	21.41
	1732.5	20175		1	0	21.43
				1	49	21.40
				1	99	21.45
				50	0	21.44
				50	24	21.37
				50	50	21.38
				100	0	21.39
	1745	20300		1	0	21.55
				1	49	21.45
				1	99	21.47
				50	0	21.50
				50	24	21.48
				50	50	21.46
				100	0	21.46

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	1.082	Fig.1	1.088	Fig.2	1.082	Fig.3
	1732.5	20175		6	0	1.082	Fig.4	1.082	Fig.5	1.082	Fig.6
	1754.3	20393		6	0	1.082	Fig.7	1.082	Fig.8	1.088	Fig.9
	1711.5	19965	3	15	0	2.683	Fig.10	2.670	Fig.11	2.683	Fig.12
	1732.5	20175		15	0	2.683	Fig.13	2.670	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	4.493	Fig.23	4.472	Fig.24
	1752.5	20375		25	0	4.472	Fig.25	4.493	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	13.415	Fig.37	13.415	Fig.38	13.415	Fig.39
	1732.5	20175		75	0	13.415	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	17.887	Fig.46	17.887	Fig.47	17.974	Fig.48
	1732.5	20175		100	0	17.887	Fig.49	17.887	Fig.50	17.887	Fig.51
	1745	20300		100	0	17.887	Fig.52	17.887	Fig.53	17.887	Fig.54

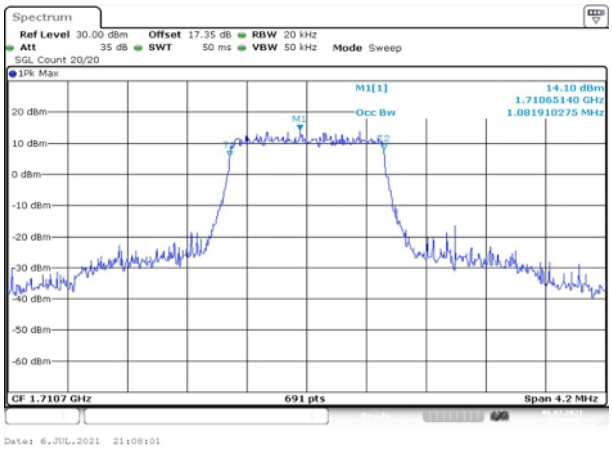


Fig.1

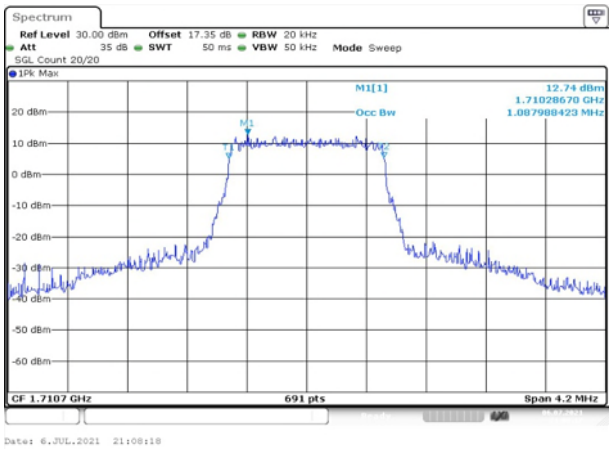


Fig.2

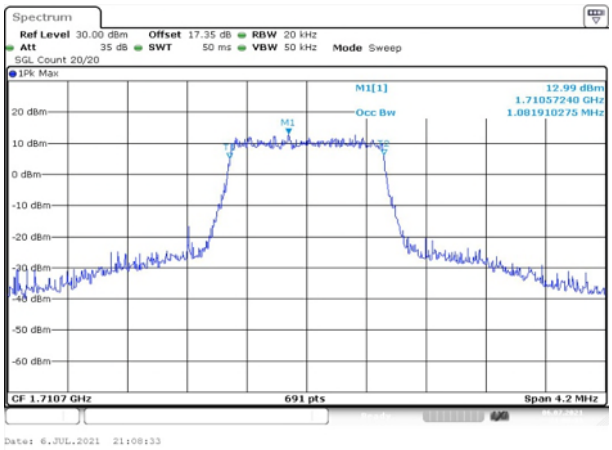


Fig.3

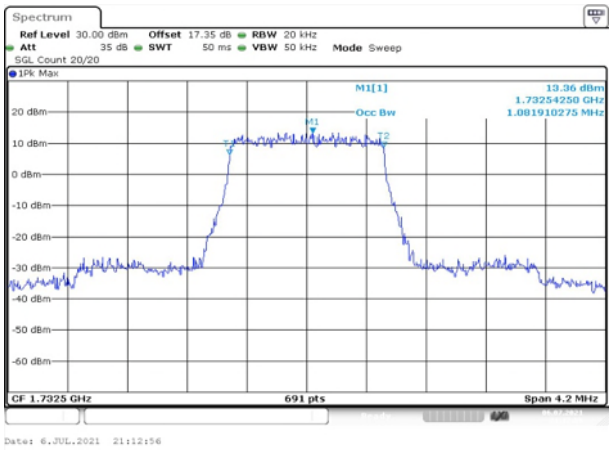


Fig.4

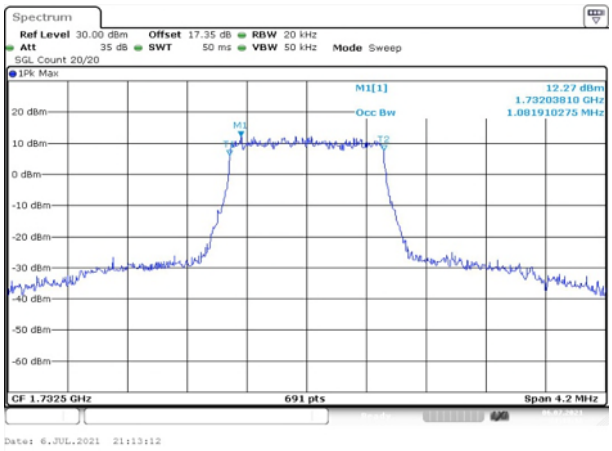


Fig.5

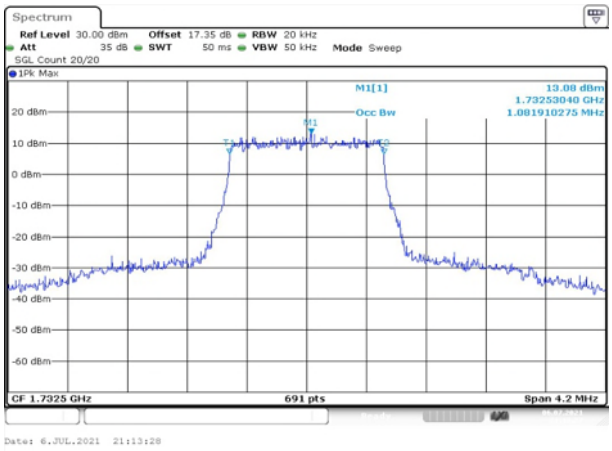


Fig.6

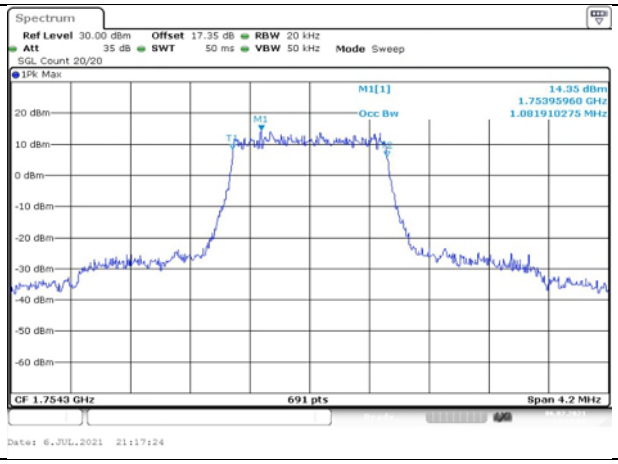


Fig.7

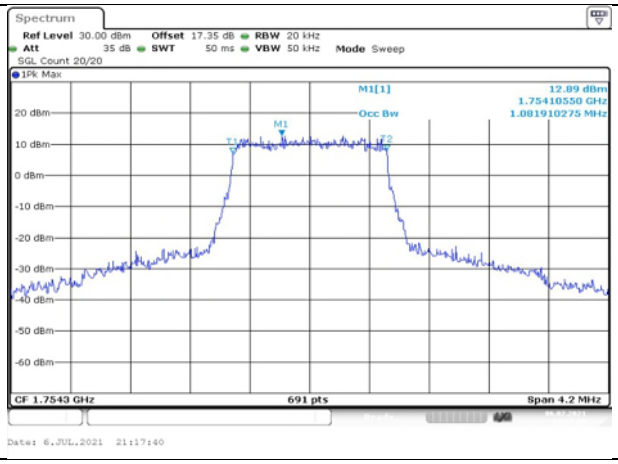


Fig.8

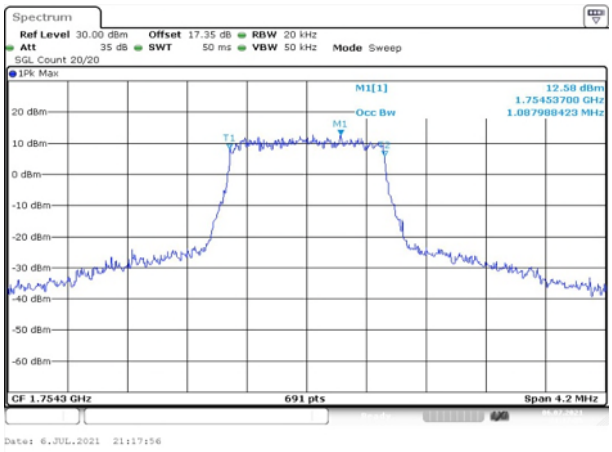


Fig.9

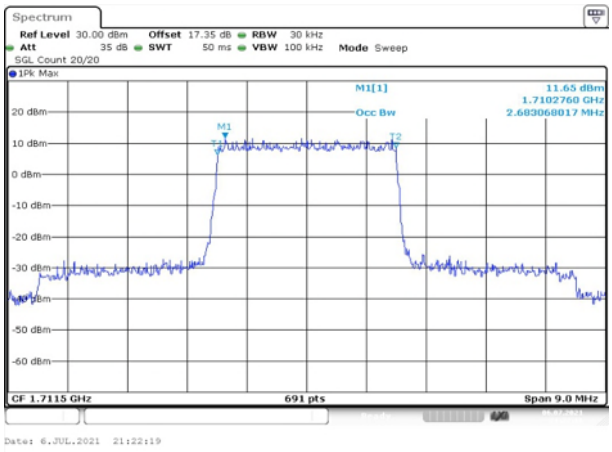


Fig.10

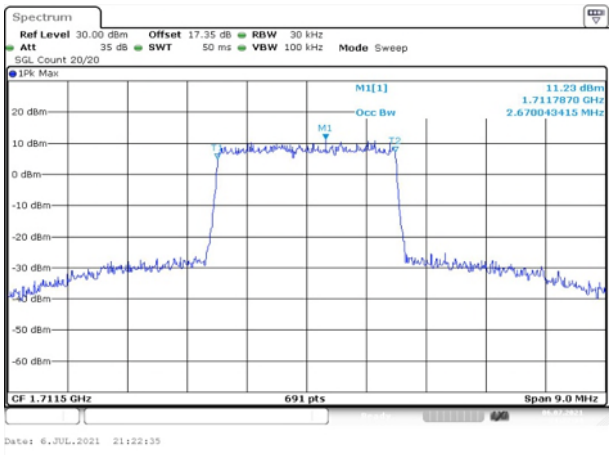


Fig.11

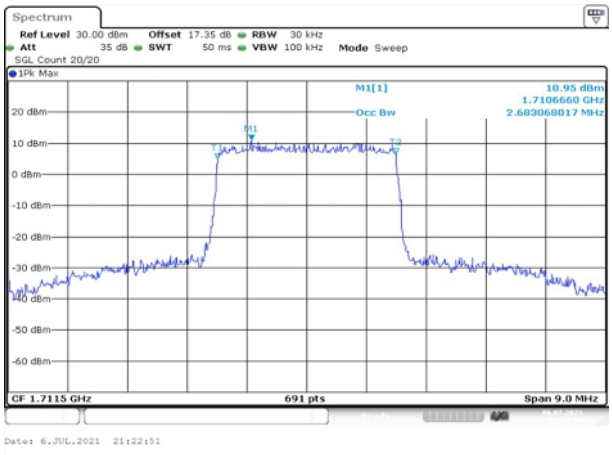


Fig.12

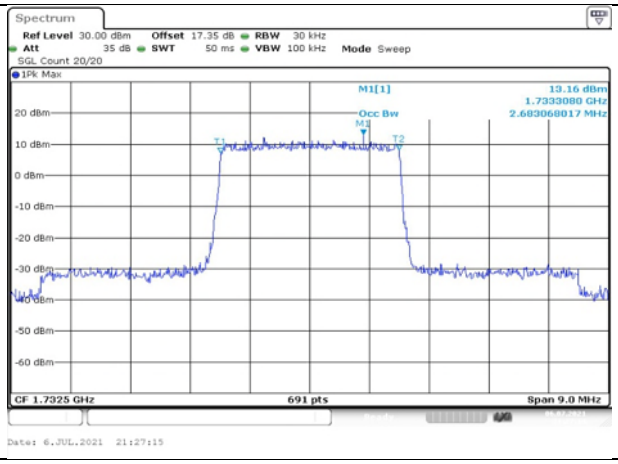


Fig.13

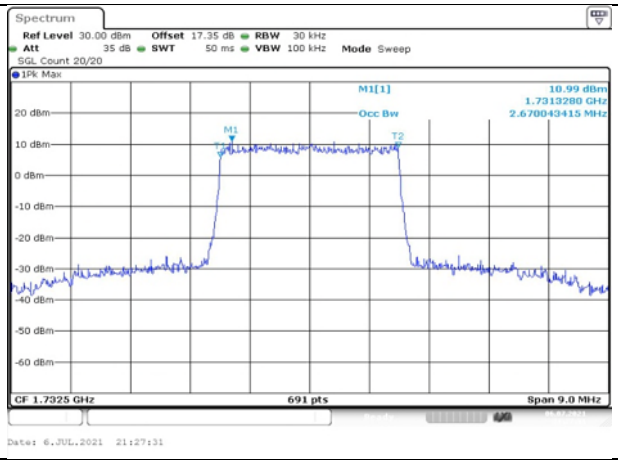


Fig.14

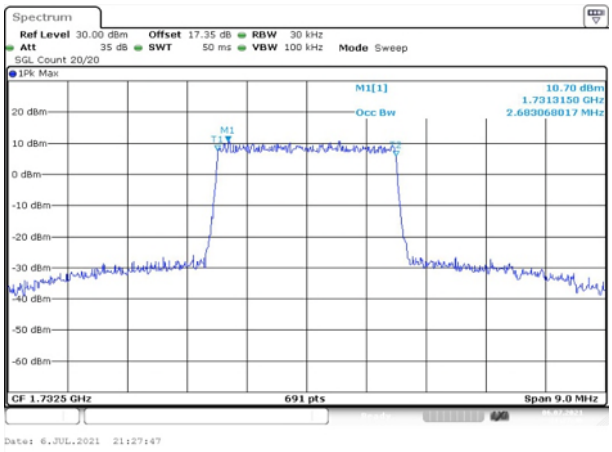


Fig.15

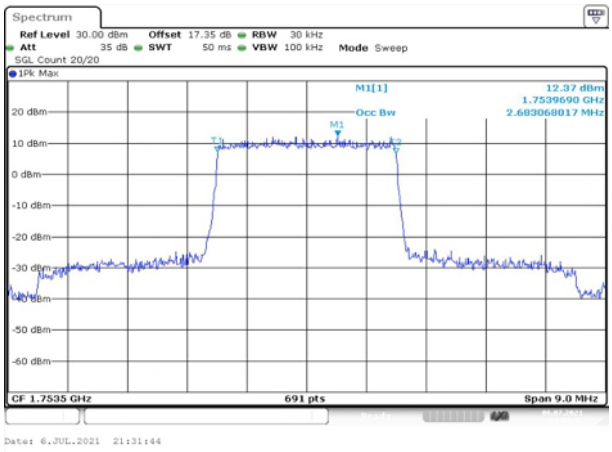
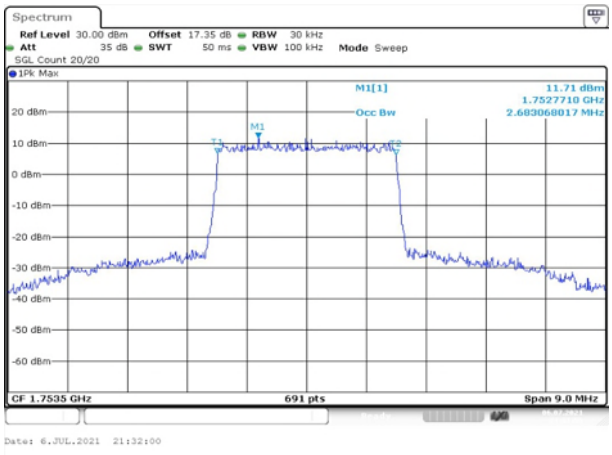


Fig.16



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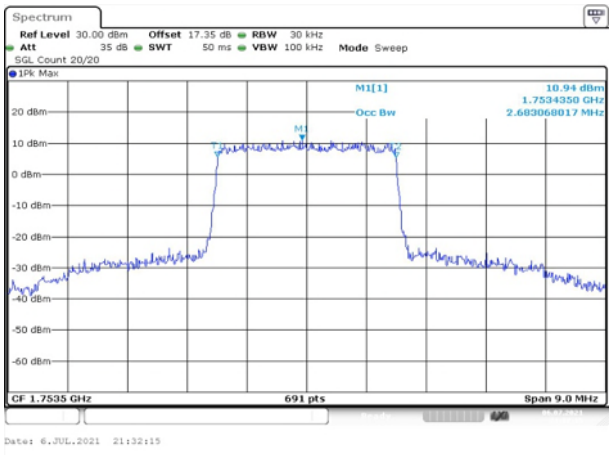

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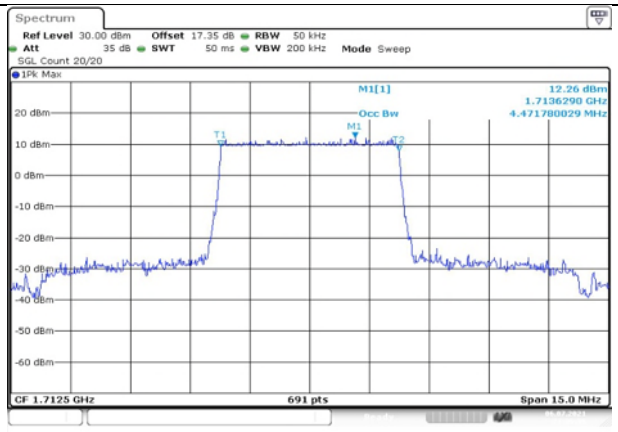

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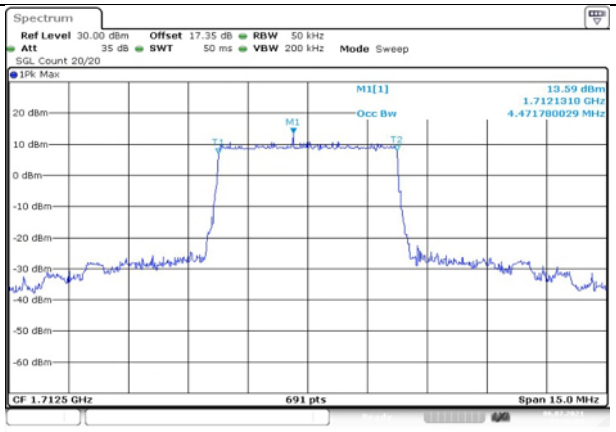

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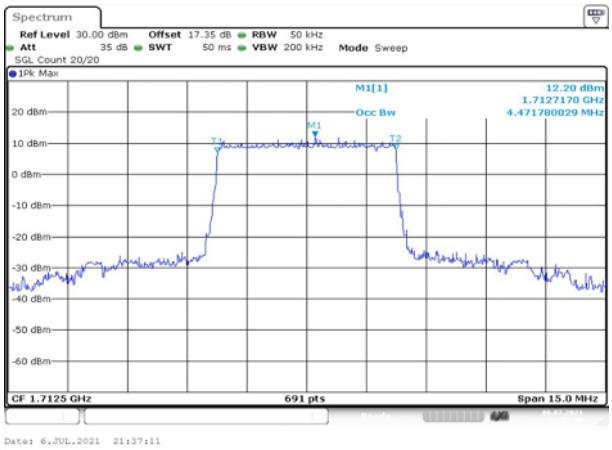

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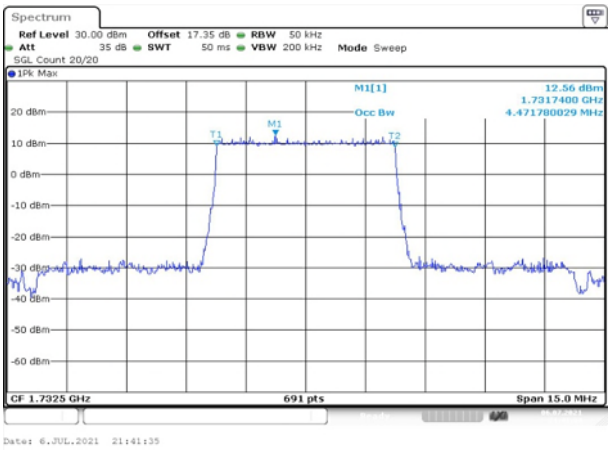

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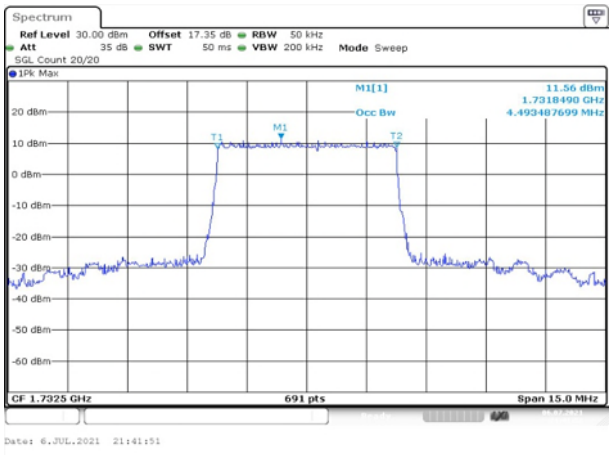

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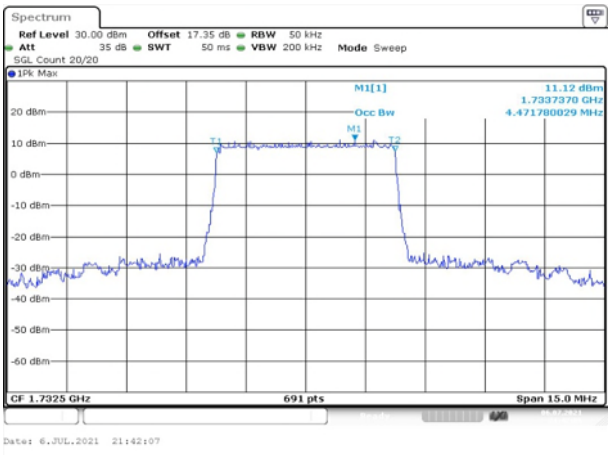

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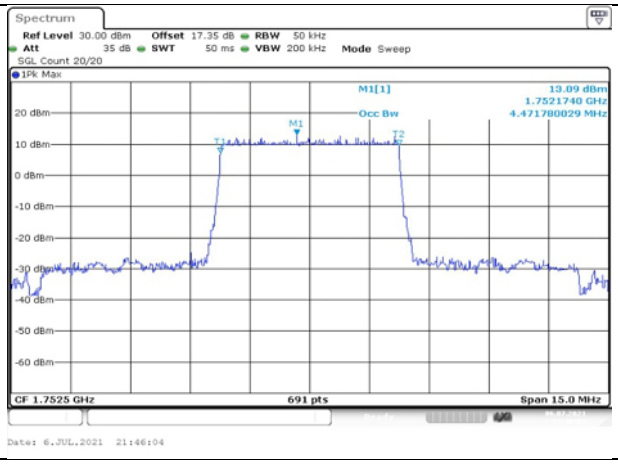

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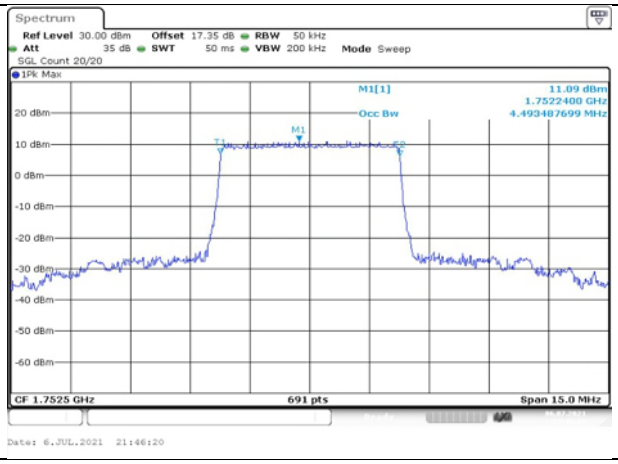

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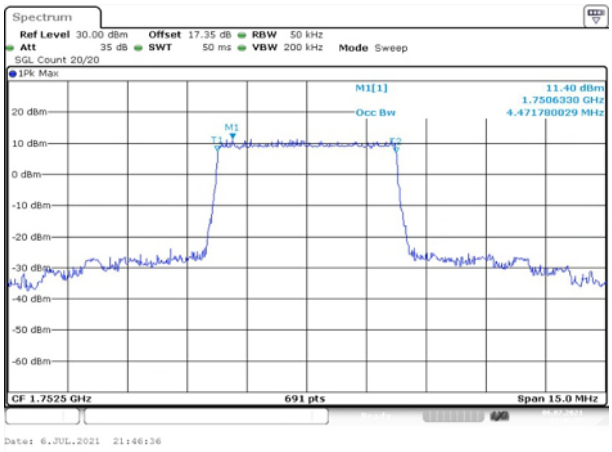

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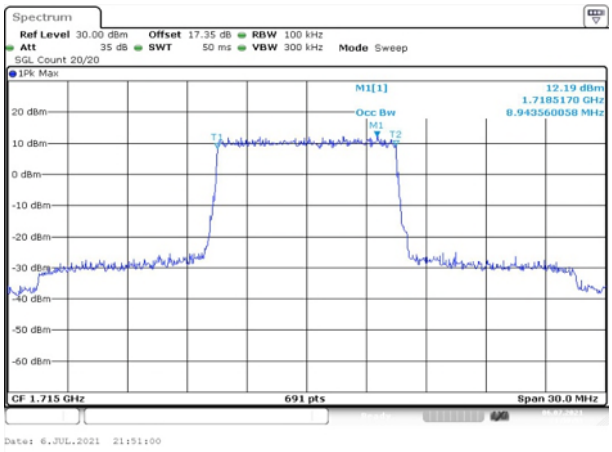

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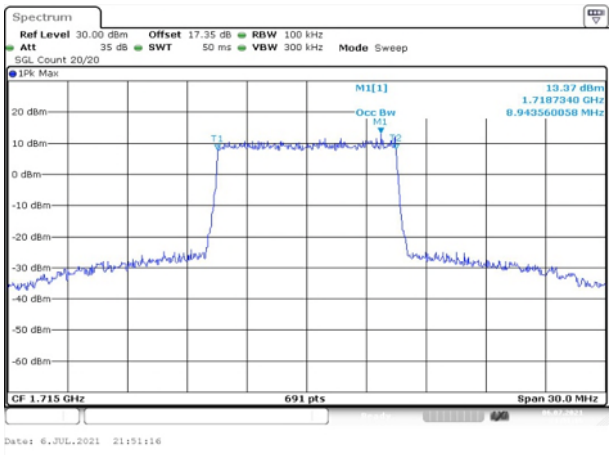

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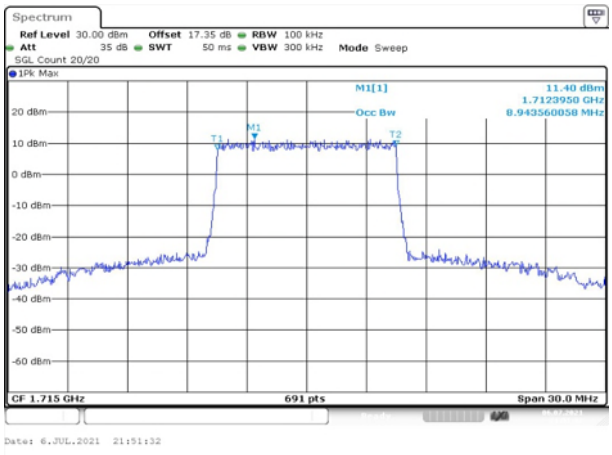

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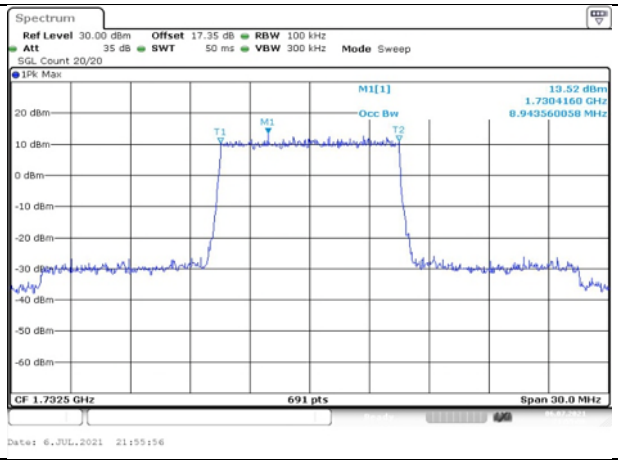

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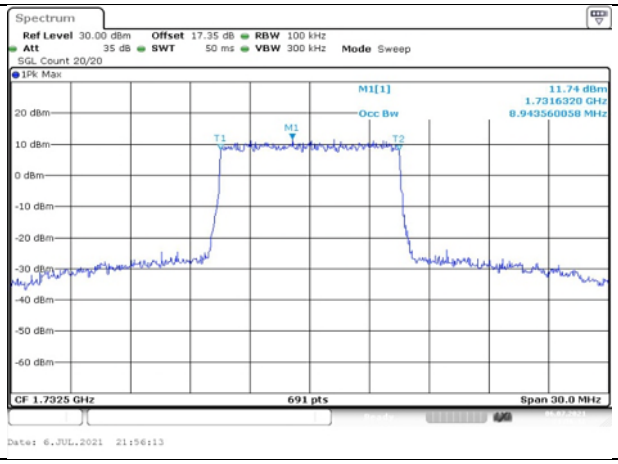

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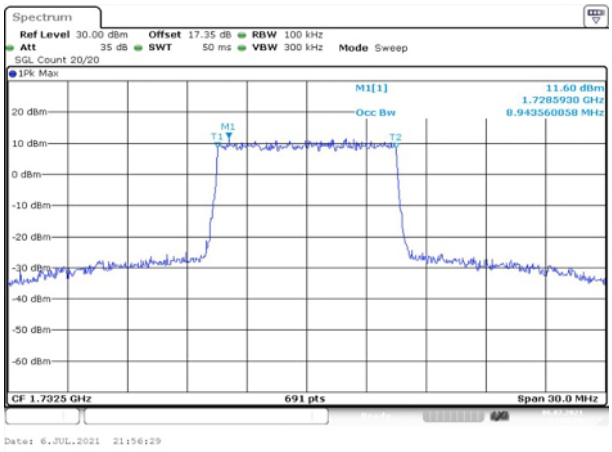

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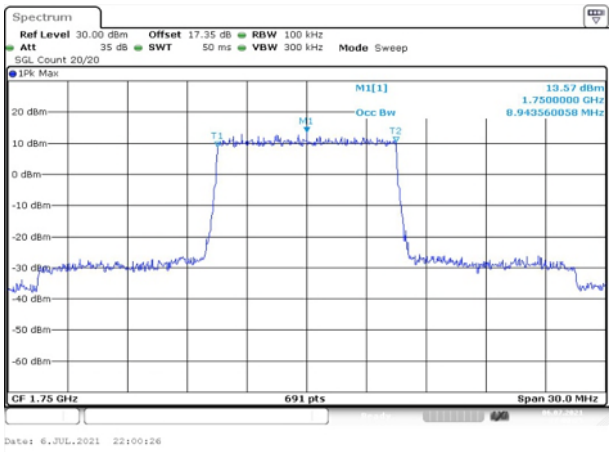

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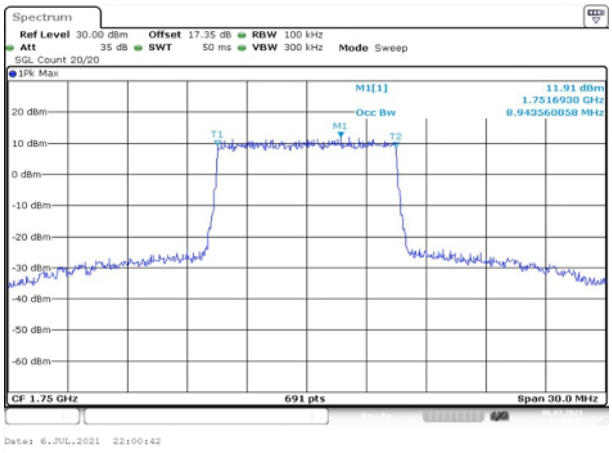

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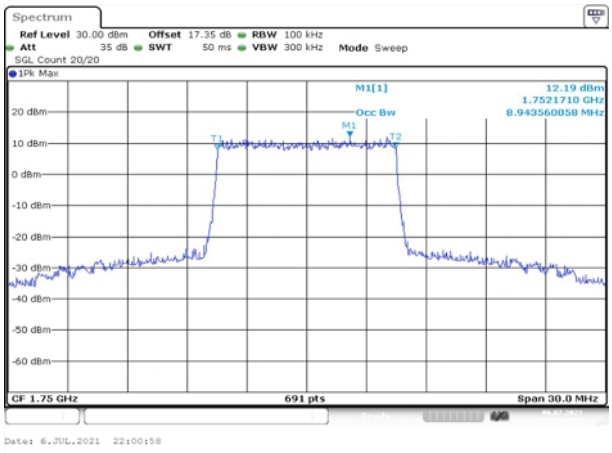

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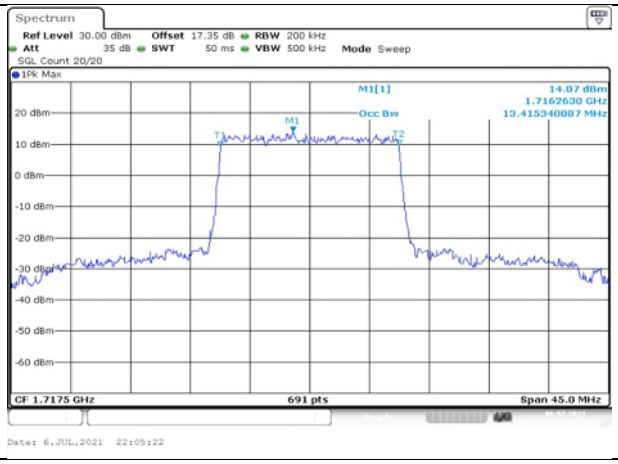

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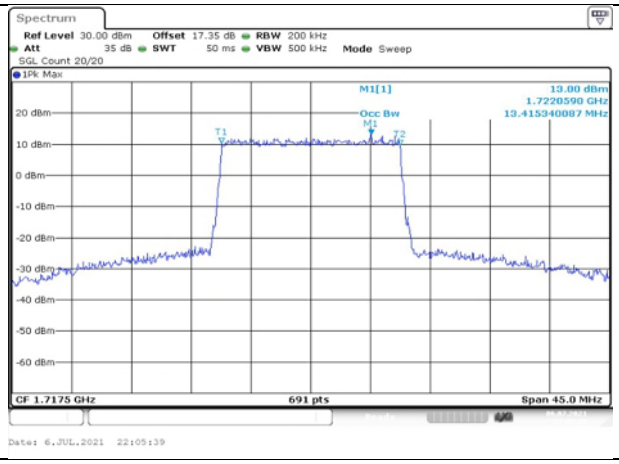

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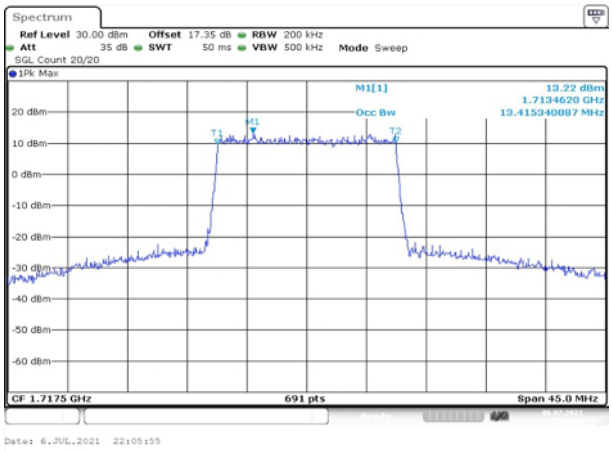

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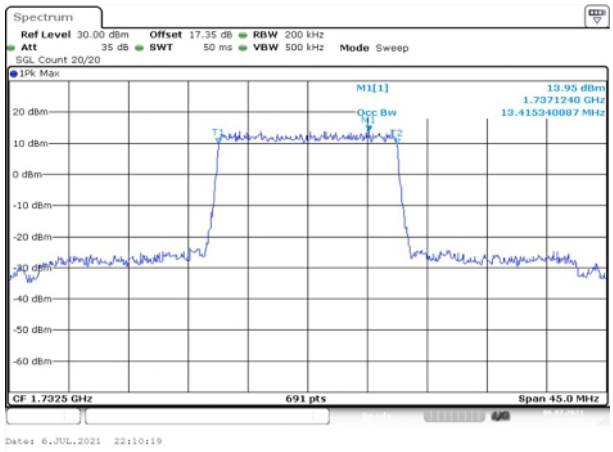

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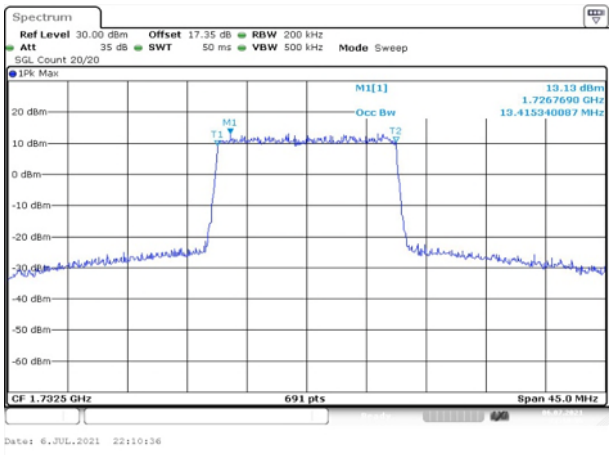

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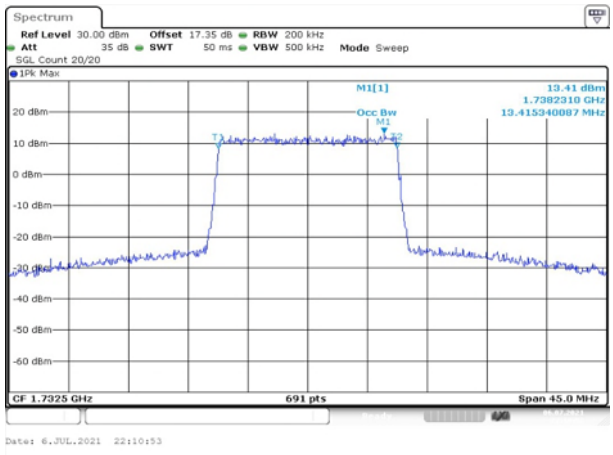

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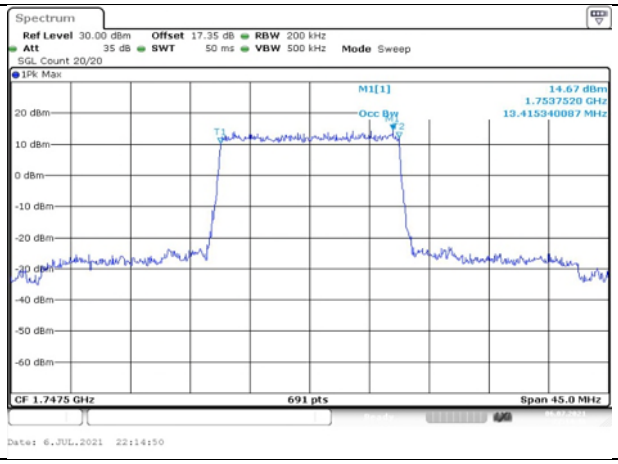

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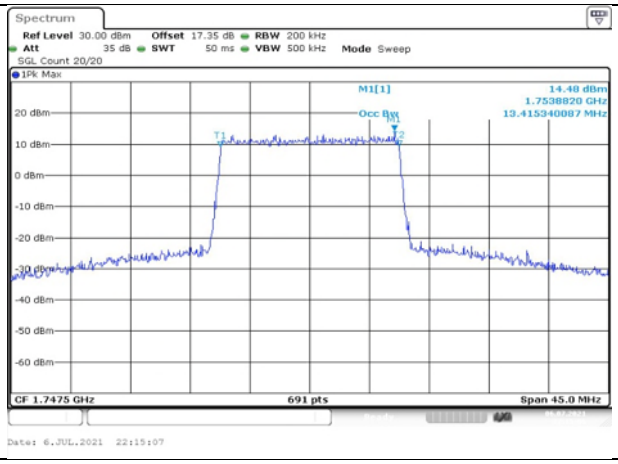

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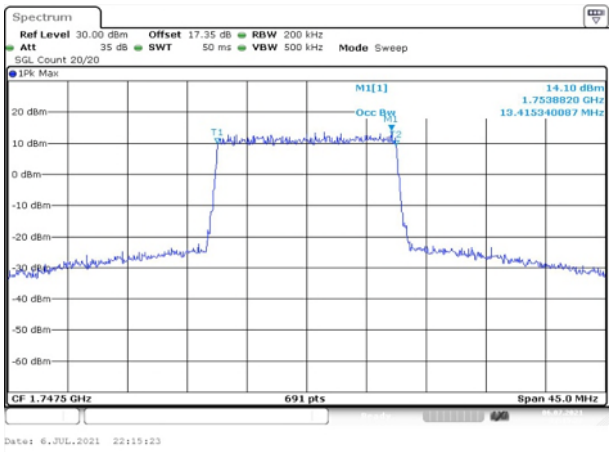

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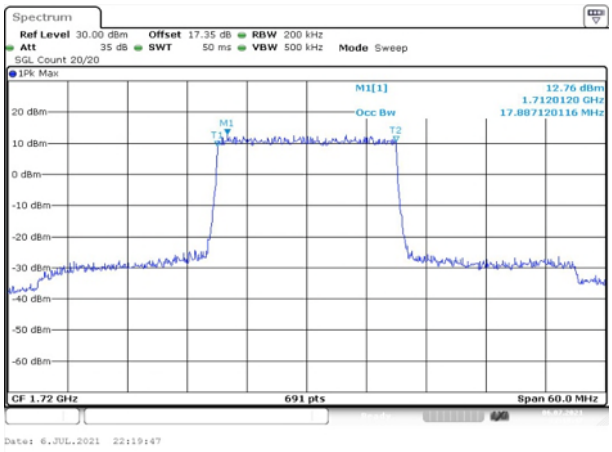

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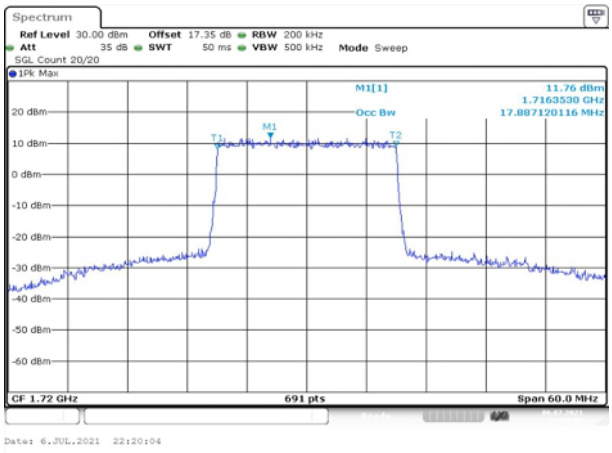

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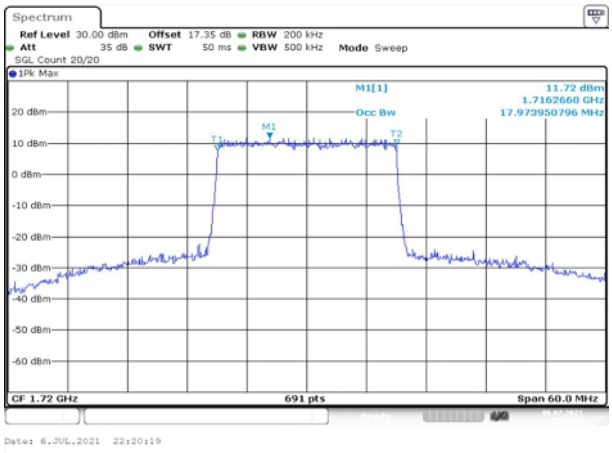

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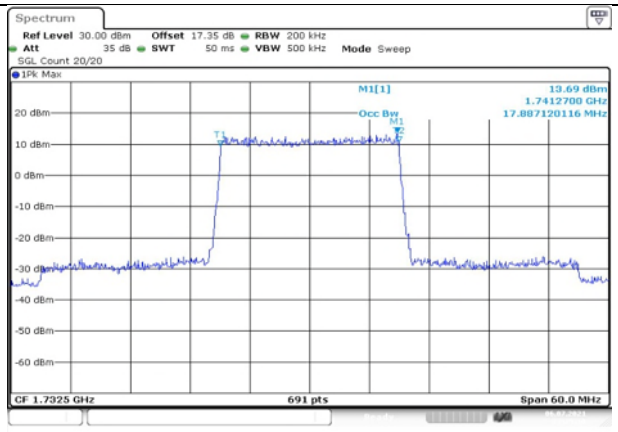

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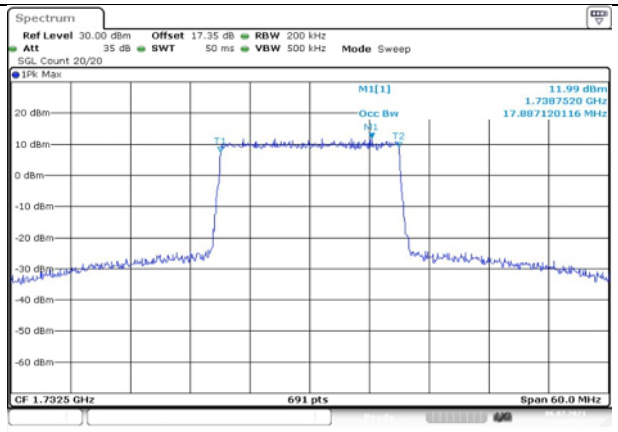

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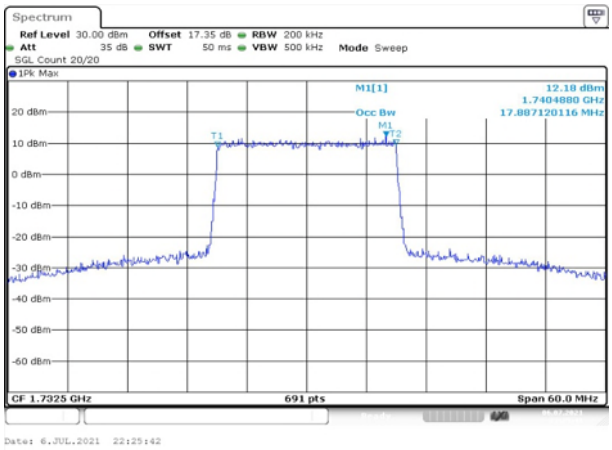

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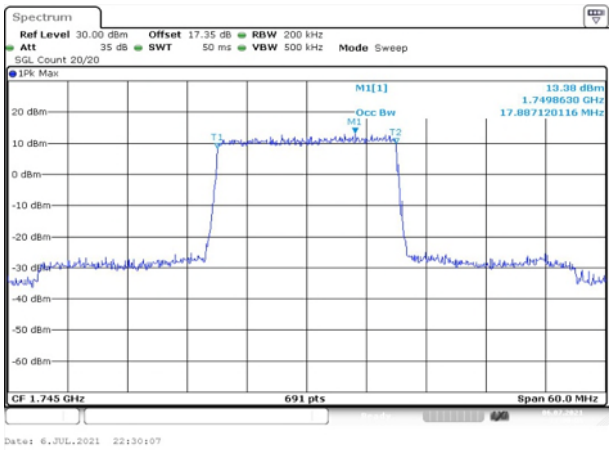

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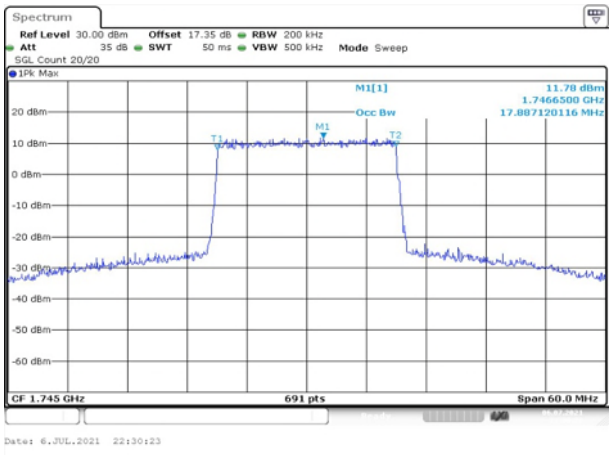

Fig.53

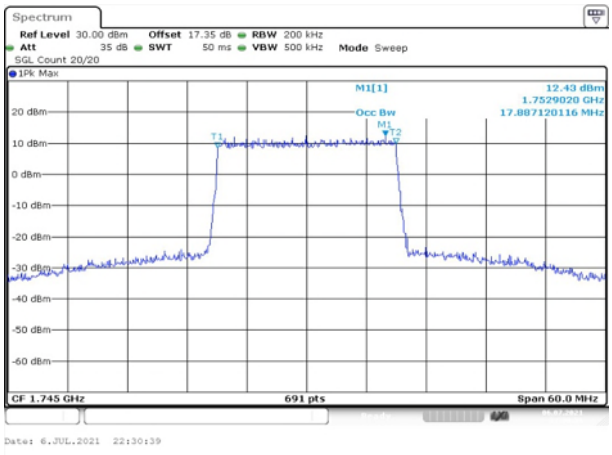

Fig.54

3 Emission Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1710.7	19957	1.4	6	0	1.240	Fig.1	1.264	Fig.2	1.246	Fig.3
	1732.5	20175		6	0	1.252	Fig.4	1.228	Fig.5	1.234	Fig.6
	1754.3	20393		6	0	1.258	Fig.7	1.246	Fig.8	1.246	Fig.9
	1711.5	19965	3	15	0	2.852	Fig.10	2.852	Fig.11	2.839	Fig.12
	1732.5	20175		15	0	2.839	Fig.13	2.852	Fig.14	2.852	Fig.15
	1753.5	20385		15	0	2.878	Fig.16	2.839	Fig.17	2.878	Fig.18
	1712.5	19975	5	25	0	4.841	Fig.19	4.754	Fig.20	4.754	Fig.21
	1732.5	20175		25	0	4.819	Fig.22	4.841	Fig.23	4.797	Fig.24
	1752.5	20375		25	0	4.797	Fig.25	4.819	Fig.26	4.863	Fig.27
	1715	20000	10	50	0	9.638	Fig.28	9.595	Fig.29	9.551	Fig.30
	1732.5	20175		50	0	9.551	Fig.31	9.508	Fig.32	9.508	Fig.33
	1750	20350		50	0	9.595	Fig.34	9.595	Fig.35	9.465	Fig.36
	1717.5	20025	15	75	0	14.522	Fig.37	14.457	Fig.38	14.457	Fig.39
	1732.5	20175		75	0	14.457	Fig.40	14.457	Fig.41	14.392	Fig.42
	1747.5	20325		75	0	14.457	Fig.43	14.392	Fig.44	14.457	Fig.45
	1720	20050	20	100	0	19.016	Fig.46	19.016	Fig.47	19.016	Fig.48
	1732.5	20175		100	0	19.016	Fig.49	18.929	Fig.50	19.016	Fig.51
	1745	20300		100	0	19.190	Fig.52	19.016	Fig.53	19.016	Fig.54

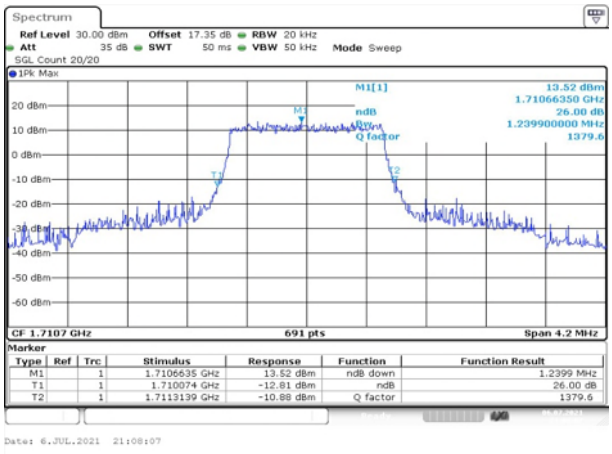

Fig.1

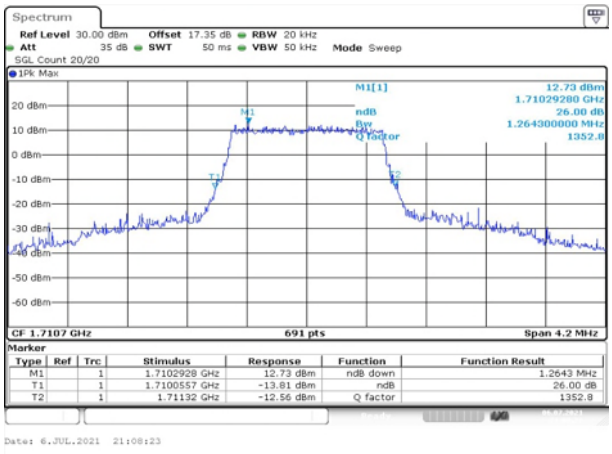

Fig.2

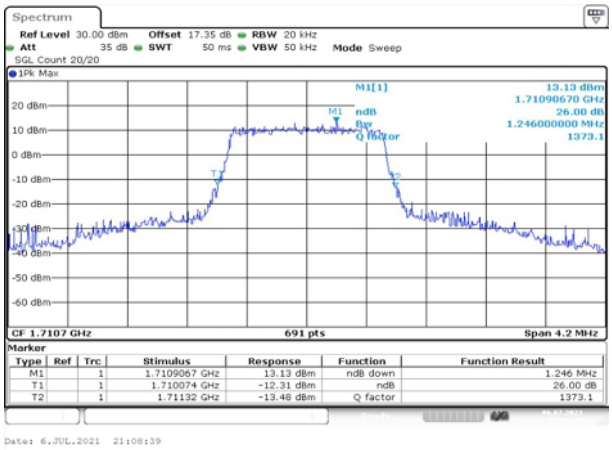

Fig.3

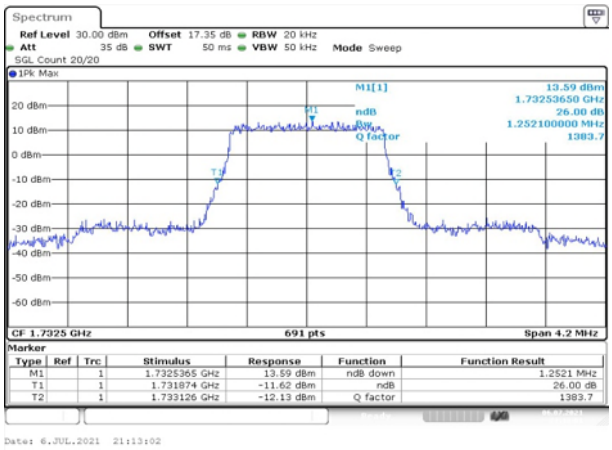

Fig.4

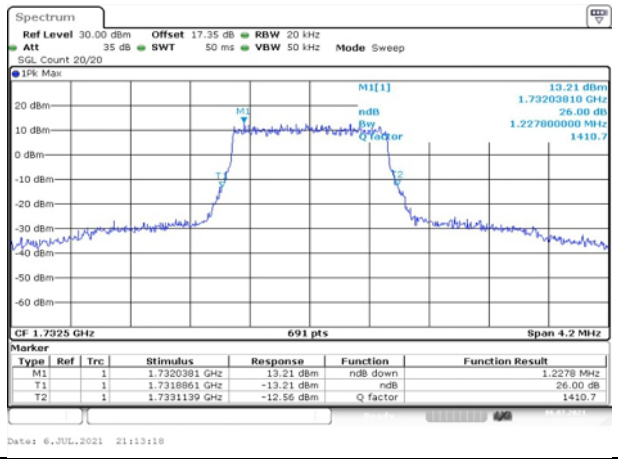

Fig.5

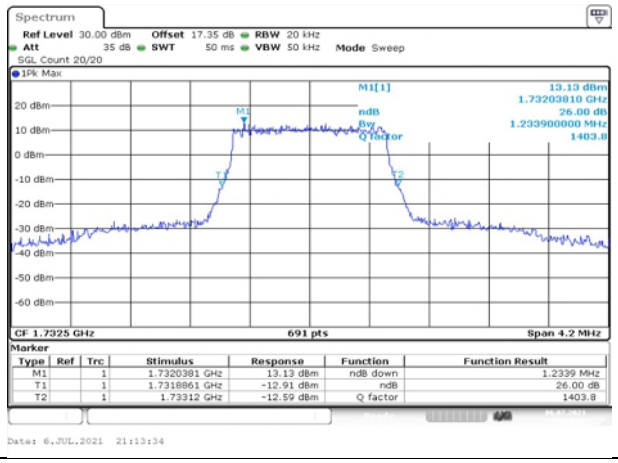

Fig.6

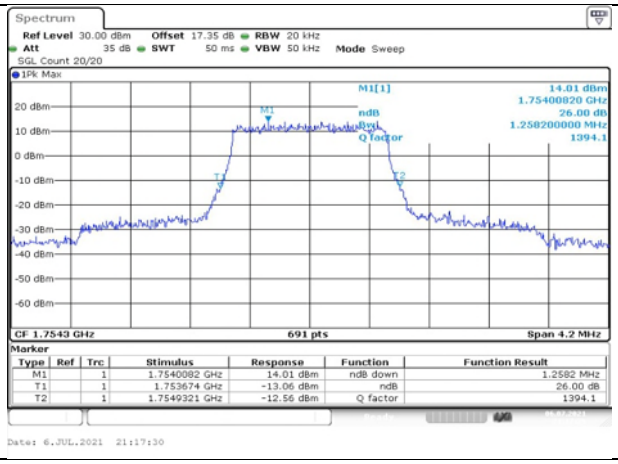

Fig.7

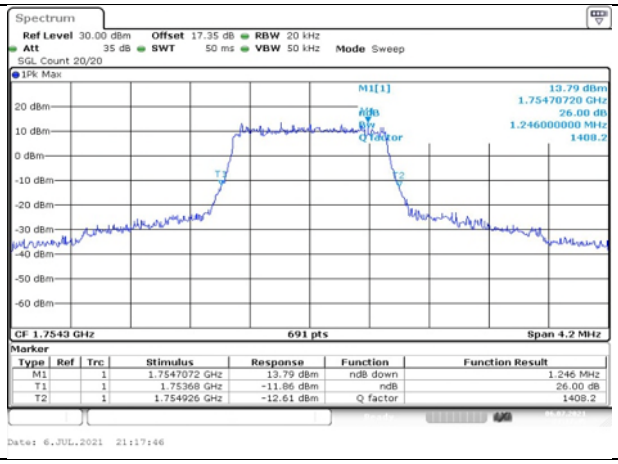

Fig.8

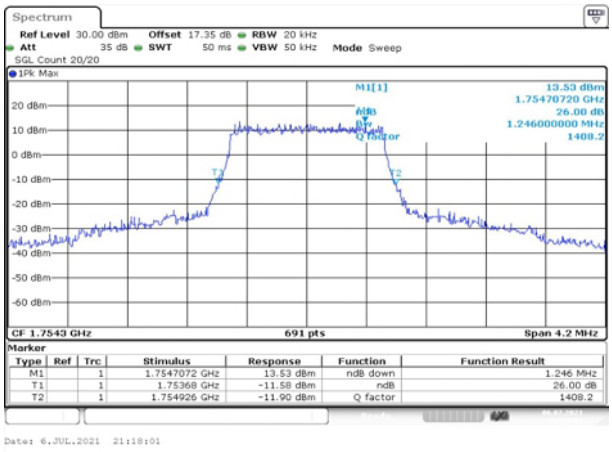

Fig.9

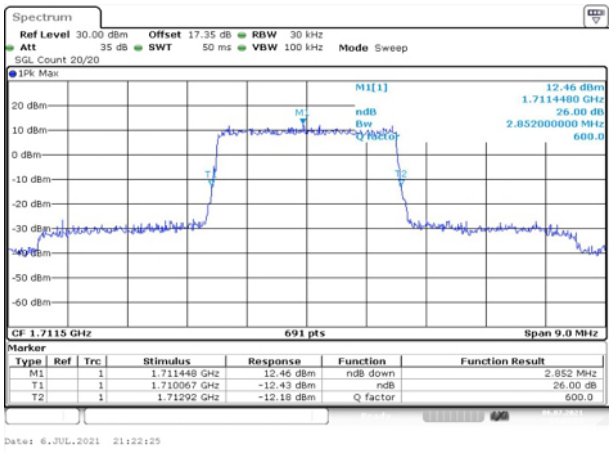

Fig.10

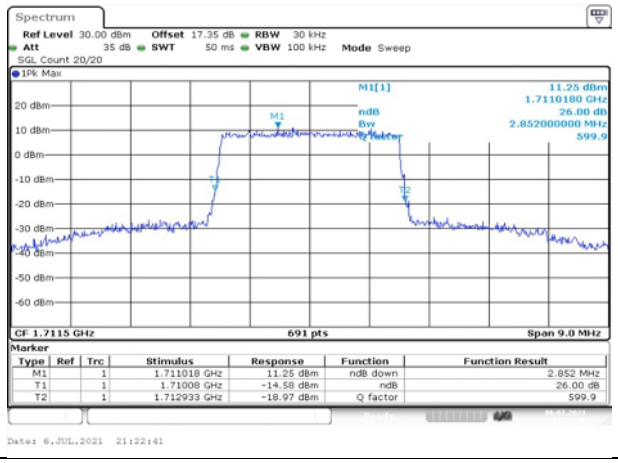

Fig.11

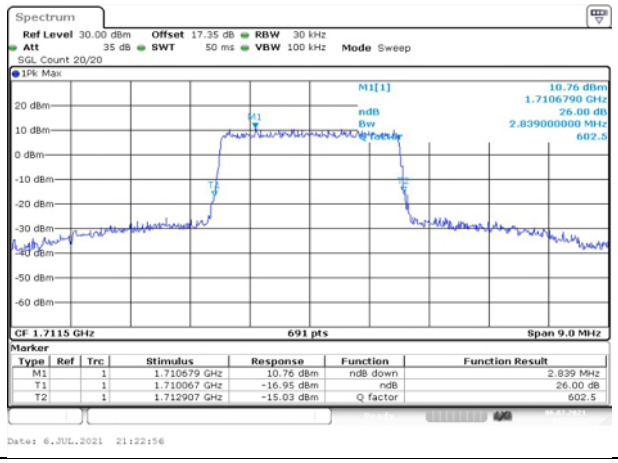

Fig.12

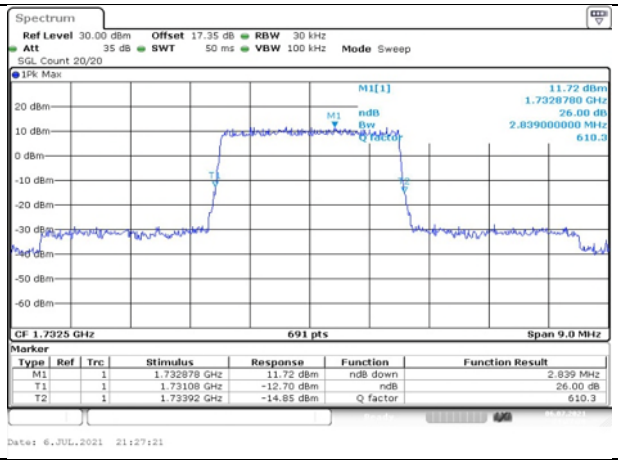

Fig.13

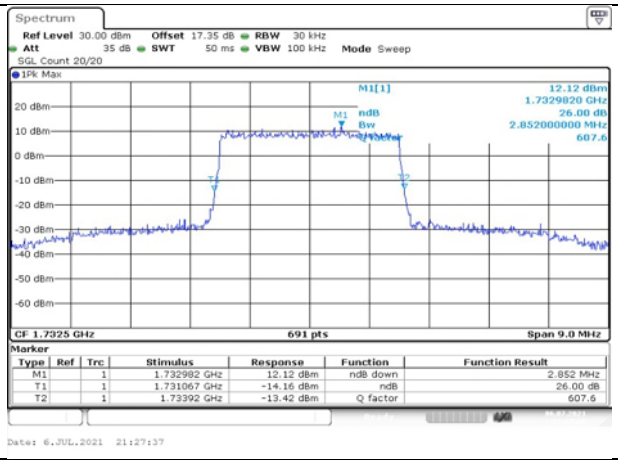

Fig.14

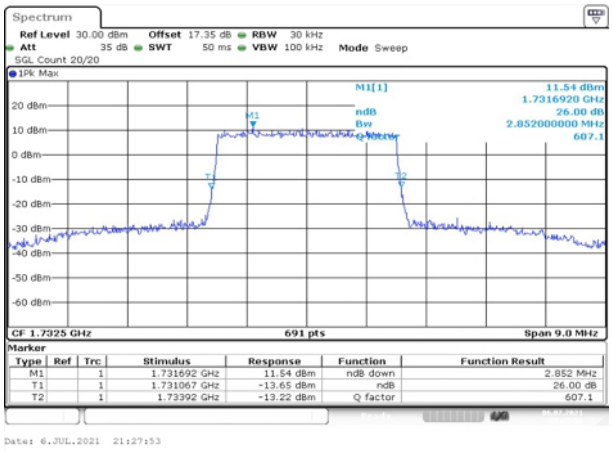

Fig.15

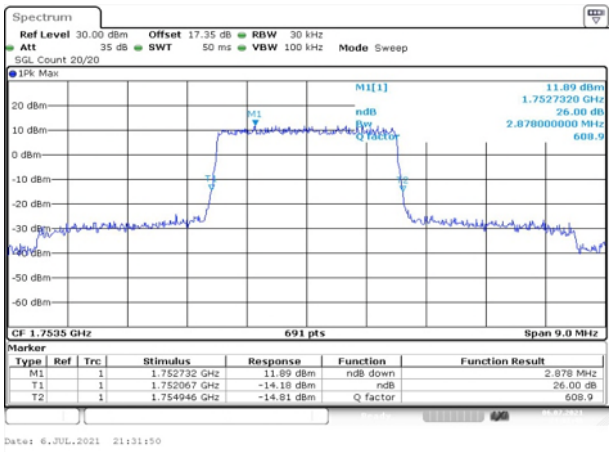

Fig.16

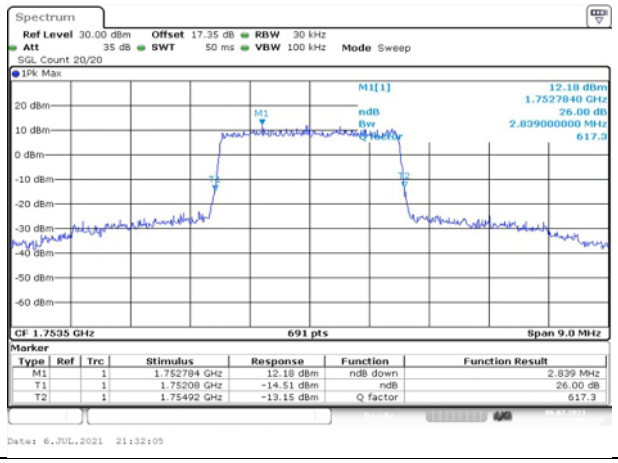

Fig.17

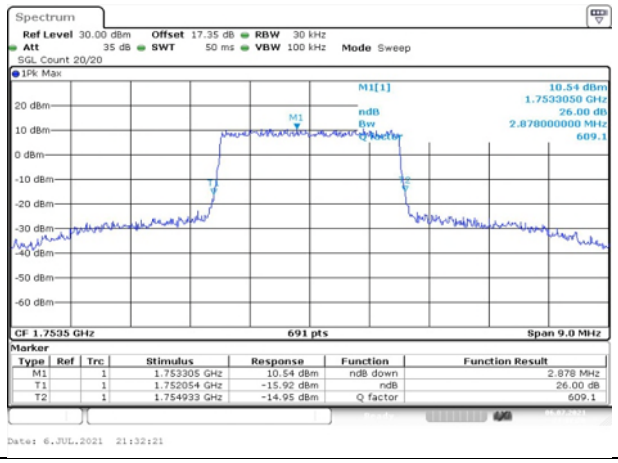

Fig.18

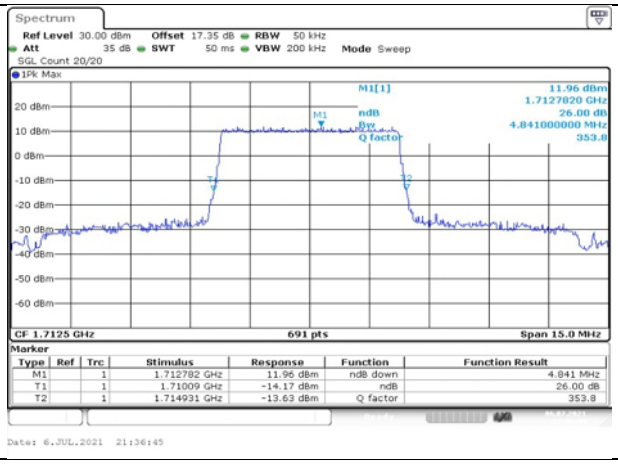

Fig.19

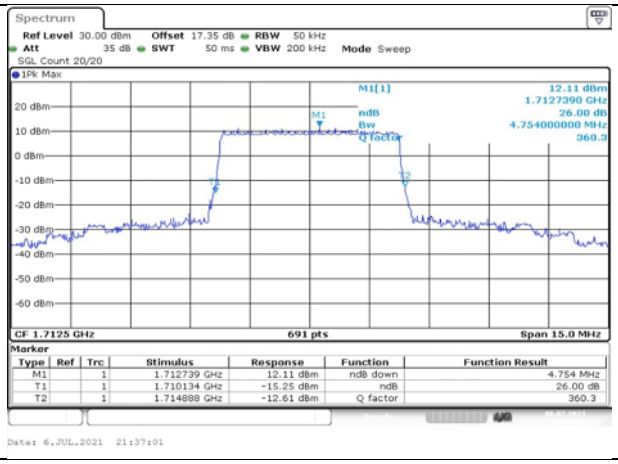

Fig.20

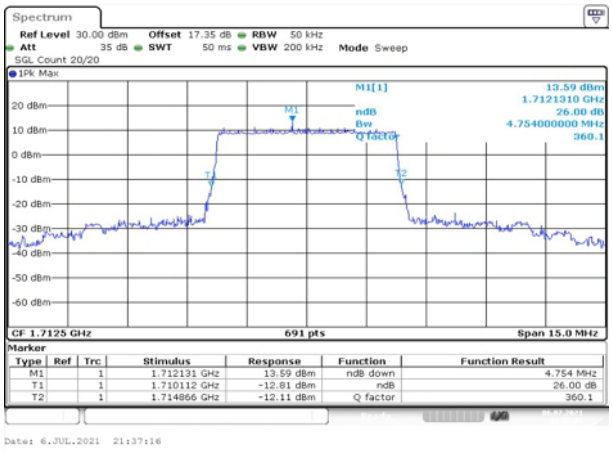

Fig.21

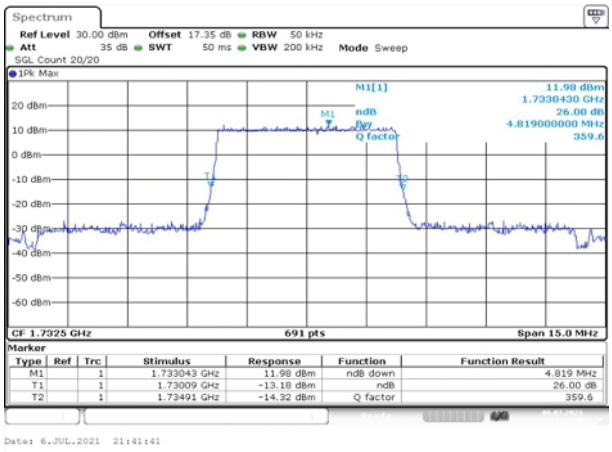

Fig.22

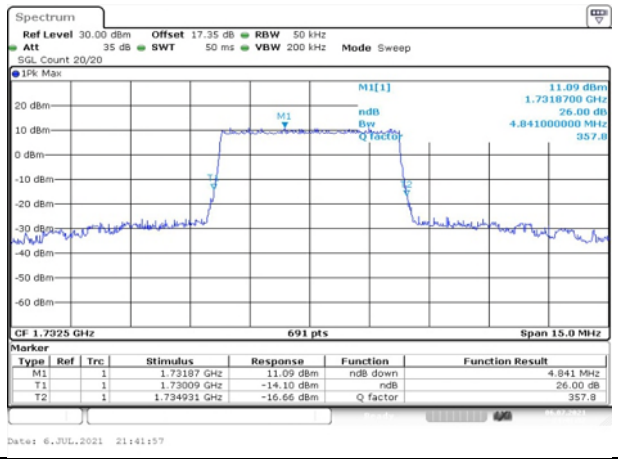

Fig.23

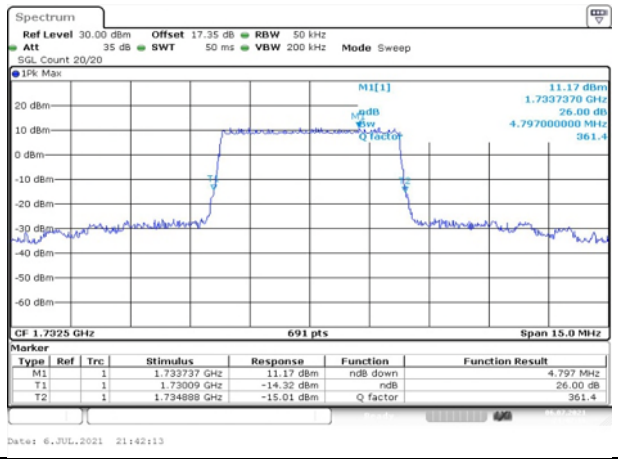

Fig.24

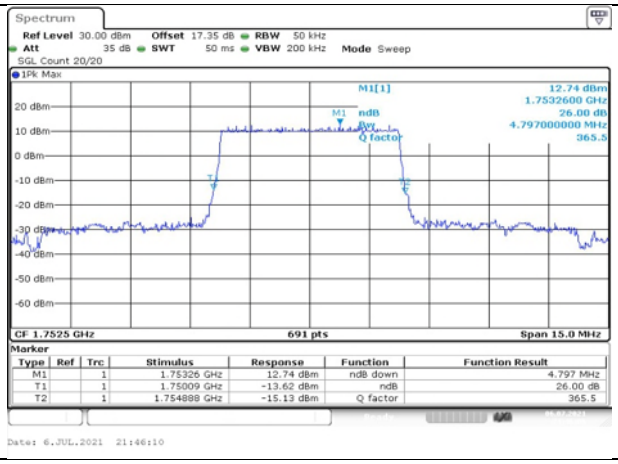

Fig.25

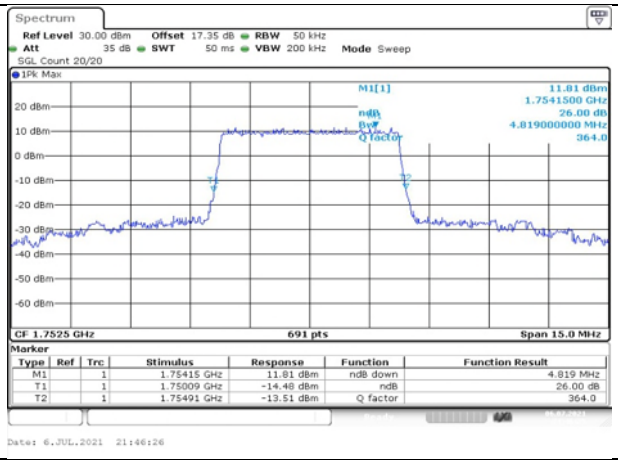

Fig.26

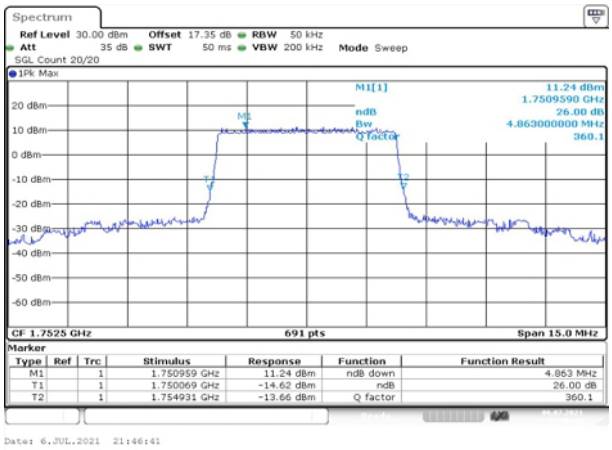

Fig.27

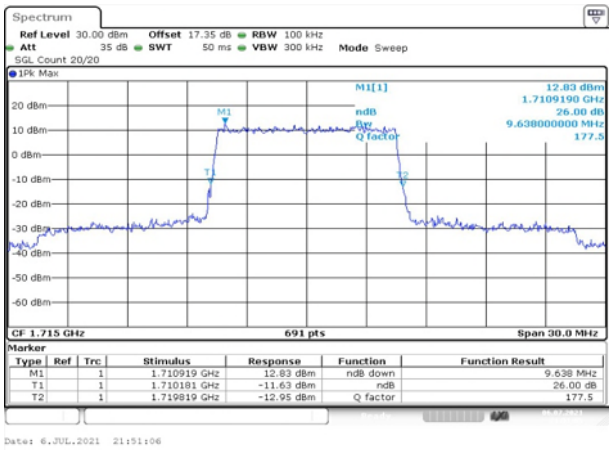

Fig.28

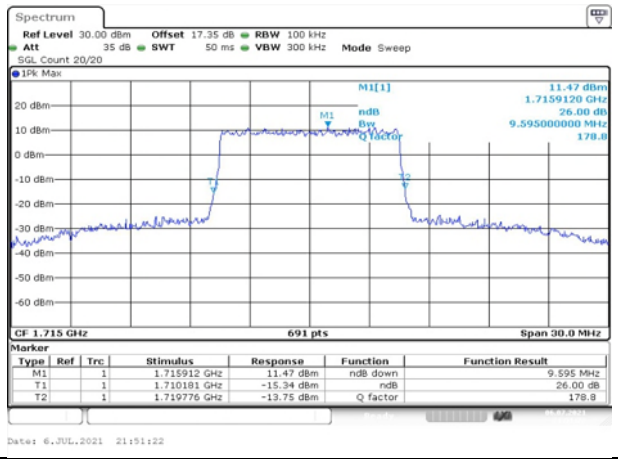

Fig.29

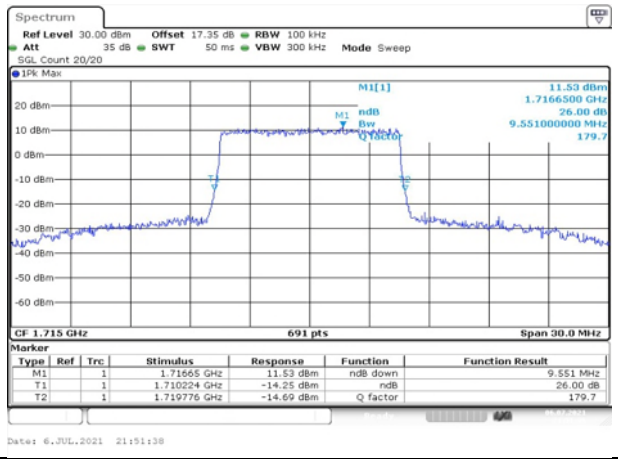

Fig.30