APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band LTE Band 7

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2502.5	20775	5	1	0	19.92
16QAM	2502.5	20775	5	1	12	19.96
16QAM	2502.5	20775	5	1	24	20.03
16QAM	2502.5	20775	5	12	0	19.22
16QAM	2502.5	20775	5	12	7	19.45
16QAM	2502.5	20775	5	12	13	19.34
16QAM	2502.5	20775	5	25	0	19.61
16QAM	2535	21100	5	1	0	21.06
16QAM	2535	21100	5	1	12	20.90
16QAM	2535	21100	5	1	24	20.89
16QAM	2535	21100	5	12	0	19.38
16QAM	2535	21100	5	12	7	19.48
16QAM	2535	21100	5	12	13	19.40
16QAM	2535	21100	5	25	0	19.54
16QAM	2567.5	21425	5	1	0	20.10
16QAM	2567.5	21425	5	1	12	20.00
16QAM	2567.5	21425	5	1	24	20.11
16QAM	2567.5	21425	5	12	0	19.37
16QAM	2567.5	21425	5	12	7	19.39
16QAM	2567.5	21425	5	12	13	19.20
16QAM	2567.5	21425	5	25	0	19.55
64QAM	2502.5	20775	5	1	0	19.93
64QAM	2502.5	20775	5	1	12	19.87
64QAM	2502.5	20775	5	1	24	19.95
64QAM	2502.5	20775	5	12	0	19.49
64QAM	2502.5	20775	5	12	7	19.47
64QAM	2502.5	20775	5	12	13	19.41
64QAM	2502.5	20775	5	25	0	19.58
64QAM	2535	21100	5	1	0	20.52
64QAM	2535	21100	5	1	12	20.44
64QAM	2535	21100	5	1	24	20.52
64QAM	2535	21100	5	12	0	19.39
64QAM	2535	21100	5	12	7	19.60
64QAM	2535	21100	5	12	13	19.48
64QAM	2535	21100	5	25	0	19.42
64QAM	2567.5	21425	5	1	0	20.43
64QAM	2567.5	21425	5	1	12	20.37
64QAM	2567.5	21425	5	1	24	20.22
64QAM	2567.5	21425	5	12	0	19.45
64QAM	2567.5	21425	5	12	7	19.57
64QAM	2567.5	21425	5	12	13	19.47

64QAM	2567.5	21425	5	25	0	19.31

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2502.5	20775	5	1	0	20.87
QPSK	2502.5	20775	5	1	12	20.87
QPSK	2502.5	20775	5	1	24	21.04
QPSK	2502.5	20775	5	12	0	21.52
QPSK	2502.5	20775	5	12	7	20.86
QPSK	2502.5	20775	5	12	13	20.89
QPSK	2502.5	20775	5	25	0	21.11
QPSK	2535	21100	5	1	0	20.94
QPSK	2535	21100	5	1	12	20.78
QPSK	2535	21100	5	1	24	21.30
QPSK	2535	21100	5	12	0	21.28
QPSK	2535	21100	5	12	7	21.21
QPSK	2535	21100	5	12	13	20.99
QPSK	2535	21100	5	25	0	21.09
QPSK	2567.5	21425	5	1	0	21.03
QPSK	2567.5	21425	5	1	12	21.15
QPSK	2567.5	21425	5	1	24	21.15
QPSK	2567.5	21425	5	12	0	20.89
QPSK	2567.5	21425	5	12	7	20.86
QPSK	2567.5	21425	5	12	13	20.82
QPSK	2567.5	21425	5	25	0	20.84

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2505	20800	10	1	0	20.42
16QAM	2505	20800	10	1	25	20.44
16QAM	2505	20800	10	1	49	20.33
16QAM	2505	20800	10	25	0	19.50
16QAM	2505	20800	10	25	12	19.57
16QAM	2505	20800	10	25	25	19.44
16QAM	2505	20800	10	50	0	19.69
16QAM	2535	21100	10	1	0	20.79
16QAM	2535	21100	10	1	25	20.93
16QAM	2535	21100	10	1	49	20.82
16QAM	2535	21100	10	25	0	19.51
16QAM	2535	21100	10	25	12	19.49
16QAM	2535	21100	10	25	25	19.49
16QAM	2535	21100	10	50	0	19.65
16QAM	2565	21400	10	1	0	20.72
16QAM	2565	21400	10	1	25	20.65
16QAM	2565	21400	10	1	49	20.54
16QAM	2565	21400	10	25	0	19.58
16QAM	2565	21400	10	25	12	19.62
16QAM	2565	21400	10	25	25	19.59
16QAM	2565	21400	10	50	0	19.55
64QAM	2505	20800	10	1	0	20.64
64QAM	2505	20800	10	1	25	20.51
64QAM	2505	20800	10	1	49	20.60
64QAM	2505	20800	10	25	0	19.55
64QAM	2505	20800	10	25	12	19.70
64QAM	2505	20800	10	25	25	19.57
64QAM	2505	20800	10	50	0	19.83
64QAM	2535	21100	10	1	0	20.57
64QAM	2535	21100	10	1	25	20.59
64QAM	2535	21100	10	1	49	20.52
64QAM	2535	21100	10	25	0	19.52
64QAM	2535	21100	10	25	12	19.50
64QAM	2535	21100	10	25	25	19.54
64QAM	2535	21100	10	50	0	19.66
64QAM	2565	21400	10	1	0	19.99
64QAM	2565	21400	10	1	25	19.95
64QAM	2565	21400	10	1	49	19.87
64QAM	2565	21400	10	25	0	19.61
64QAM	2565	21400	10	25	12	19.64
64QAM	2565	21400	10	25	25	19.63
64QAM	2565	21400	10	50	0	19.55

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2505	20800	10	1	0	21.07
QPSK	2505	20800	10	1	25	21.15
QPSK	2505	20800	10	1	49	21.04
QPSK	2505	20800	10	25	0	20.69
QPSK	2505	20800	10	25	12	20.83
QPSK	2505	20800	10	25	25	20.97
QPSK	2505	20800	10	50	0	21.02
QPSK	2535	21100	10	1	0	20.84
QPSK	2535	21100	10	1	25	21.13
QPSK	2535	21100	10	1	49	21.14
QPSK	2535	21100	10	25	0	21.06
QPSK	2535	21100	10	25	12	20.78
QPSK	2535	21100	10	25	25	20.57
QPSK	2535	21100	10	50	0	20.85
QPSK	2565	21400	10	1	0	20.98
QPSK	2565	21400	10	1	25	20.45
QPSK	2565	21400	10	1	49	20.77
QPSK	2565	21400	10	25	0	21.01
QPSK	2565	21400	10	25	12	21.16
QPSK	2565	21400	10	25	25	20.77
QPSK	2565	21400	10	50	0	21.18

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2507.5	20825	15	1	0	20.51
16QAM	2507.5	20825	15	1	37	20.36
16QAM	2507.5	20825	15	1	74	20.37
16QAM	2507.5	20825	15	36	0	19.79
16QAM	2507.5	20825	15	36	29	19.56
16QAM	2507.5	20825	15	36	30	19.58
16QAM	2507.5	20825	15	75	0	19.56
16QAM	2535	21100	15	1	0	20.77
16QAM	2535	21100	15	1	37	20.86
16QAM	2535	21100	15	1	74	20.57
16QAM	2535	21100	15	36	0	19.49
16QAM	2535	21100	15	36	29	19.61
16QAM	2535	21100	15	36	30	19.41
16QAM	2535	21100	15	75	0	19.62
16QAM	2562.5	21375	15	1	0	20.73
16QAM	2562.5	21375	15	1	37	20.72
16QAM	2562.5	21375	15	1	74	20.58
16QAM	2562.5	21375	15	36	0	19.38
16QAM	2562.5	21375	15	36	29	19.48
16QAM	2562.5	21375	15	36	30	19.49
16QAM	2562.5	21375	15	75	0	19.48
64QAM	2507.5	20825	15	1	0	20.71
64QAM	2507.5	20825	15	1	37	20.63
64QAM	2507.5	20825	15	1	74	20.64
64QAM	2507.5	20825	15	36	0	19.74
64QAM	2507.5	20825	15	36	29	19.65
64QAM	2507.5	20825	15	36	30	19.55
64QAM	2507.5	20825	15	75	0	19.52
64QAM	2535	21100	15	1	0	20.63
64QAM	2535	21100	15	1	37	20.84
64QAM	2535	21100	15	1	74	20.68
64QAM	2535	21100	15	36	0	19.53
64QAM	2535	21100	15	36	29	19.38
64QAM	2535	21100	15	36	30	19.39
64QAM	2535	21100	15	75	0	19.61
64QAM	2562.5	21375	15	1	0	20.81
64QAM	2562.5	21375	15	1	37	20.84
64QAM	2562.5	21375	15	1	74	20.81
64QAM	2562.5	21375	15	36	0	19.48
64QAM	2562.5	21375	15	36	29	19.57
64QAM	2562.5	21375	15	36	30	19.57
64QAM	2562.5	21375	15	75	0	19.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2507.5	20825	15	1	0	21.10
QPSK	2507.5	20825	15	1	37	20.97
QPSK	2507.5	20825	15	1	74	20.99
QPSK	2507.5	20825	15	36	0	20.77
QPSK	2507.5	20825	15	36	29	20.63
QPSK	2507.5	20825	15	36	30	21.16
QPSK	2507.5	20825	15	75	0	20.47
QPSK	2535	21100	15	1	0	20.87
QPSK	2535	21100	15	1	37	21.06
QPSK	2535	21100	15	1	74	21.29
QPSK	2535	21100	15	36	0	20.64
QPSK	2535	21100	15	36	29	20.89
QPSK	2535	21100	15	36	30	20.88
QPSK	2535	21100	15	75	0	21.09
QPSK	2562.5	21375	15	1	0	20.90
QPSK	2562.5	21375	15	1	37	20.91
QPSK	2562.5	21375	15	1	74	20.58
QPSK	2562.5	21375	15	36	0	21.01
QPSK	2562.5	21375	15	36	29	21.05
QPSK	2562.5	21375	15	36	30	20.64
QPSK	2562.5	21375	15	75	0	20.92

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2510	20850	20	1	0	20.91
16QAM	2510	20850	20	1	49	20.77
16QAM	2510	20850	20	1	99	20.89
16QAM	2510	20850	20	50	0	19.95
16QAM	2510	20850	20	50	24	19.71
16QAM	2510	20850	20	50	50	19.50
16QAM	2510	20850	20	100	0	19.43
16QAM	2535	21100	20	1	0	20.78
16QAM	2535	21100	20	1	49	20.81
16QAM	2535	21100	20	1	99	20.90
16QAM	2535	21100	20	50	0	19.49
16QAM	2535	21100	20	50	24	19.68
16QAM	2535	21100	20	50	50	19.44
16QAM	2535	21100	20	100	0	19.51
16QAM	2560	21350	20	1	0	20.77
16QAM	2560	21350	20	1	49	20.70
16QAM	2560	21350	20	1	99	20.72
16QAM	2560	21350	20	50	0	19.55
16QAM	2560	21350	20	50	24	19.47
16QAM	2560	21350	20	50	50	19.56
16QAM	2560	21350	20	100	0	19.57
64QAM	2510	20850	20	1	0	20.43
64QAM	2510	20850	20	1	49	20.32
64QAM	2510	20850	20	1	99	20.35
64QAM	2510	20850	20	50	0	19.71
64QAM	2510	20850	20	50	24	19.56
64QAM	2510	20850	20	50	50	19.60
64QAM	2510	20850	20	100	0	19.52
64QAM	2535	21100	20	1	0	20.75
64QAM	2535	21100	20	1	49	20.85
64QAM	2535	21100	20	1	99	20.81
64QAM	2535	21100	20	50	0	19.40
64QAM	2535	21100	20	50	24	19.52
64QAM	2535	21100	20	50	50	19.43
64QAM	2535	21100	20	100	0	19.52
64QAM	2560	21350	20	1	0	21.22
64QAM	2560	21350	20	1	49	21.11
64QAM	2560	21350	20	1	99	21.06
64QAM	2560	21350	20	50	0	19.56
64QAM	2560	21350	20	50	24	19.48
64QAM	2560	21350	20	50	50	19.57
64QAM	2560	21350	20	100	0	19.45

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2510	20850	20	1	0	21.01
QPSK	2510	20850	20	1	49	20.92
QPSK	2510	20850	20	1	99	20.87
QPSK	2510	20850	20	50	0	20.73
QPSK	2510	20850	20	50	24	21.22
QPSK	2510	20850	20	50	50	21.23
QPSK	2510	20850	20	100	0	21.02
QPSK	2535	21100	20	1	0	21.06
QPSK	2535	21100	20	1	49	21.06
QPSK	2535	21100	20	1	99	21.27
QPSK	2535	21100	20	50	0	20.90
QPSK	2535	21100	20	50	24	21.33
QPSK	2535	21100	20	50	50	21.08
QPSK	2535	21100	20	100	0	20.68
QPSK	2560	21350	20	1	0	21.17
QPSK	2560	21350	20	1	49	20.86
QPSK	2560	21350	20	1	99	20.72
QPSK	2560	21350	20	50	0	20.91
QPSK	2560	21350	20	50	24	21.26
QPSK	2560	21350	20	50	50	20.97
QPSK	2560	21350	20	100	0	20.79

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
Band 7	QPSK	2502.5	20775	5	25	0	4.472	Fig.1
Band 7	QPSK	2535	21100	5	25	0	4.472	Fig.2
Band 7	QPSK	2567.5	21425	5	25	0	4.472	Fig.3
Band 7	QPSK	2505	20800	10	50	0	8.987	Fig.4
Band 7	QPSK	2535	21100	10	50	0	8.944	Fig.5
Band 7	QPSK	2565	21400	10	50	0	8.944	Fig.6
Band 7	QPSK	2507.5	20825	15	75	0	13.415	Fig.7
Band 7	QPSK	2535	21100	15	75	0	13.415	Fig.8
Band 7	QPSK	2562.5	21375	15	75	0	13.415	Fig.9
Band 7	QPSK	2510	20850	20	100	0	17.974	Fig.10
Band 7	QPSK	2535	21100	20	100	0	17.887	Fig.11
Band 7	QPSK	2560	21350	20	100	0	17.887	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
Band 7	16QAM	2502.5	20775	5	25	0	4.472	Fig.13
Band 7	16QAM	2535	21100	5	25	0	4.472	Fig.14
Band 7	16QAM	2567.5	21425	5	25	0	4.472	Fig.15
Band 7	16QAM	2505	20800	10	50	0	8.944	Fig.16
Band 7	16QAM	2535	21100	10	50	0	8.944	Fig.17
Band 7	16QAM	2565	21400	10	50	0	8.987	Fig.18
Band 7	16QAM	2507.5	20825	15	75	0	13.480	Fig.19
Band 7	16QAM	2535	21100	15	75	0	13.415	Fig.20
Band 7	16QAM	2562.5	21375	15	75	0	13.415	Fig.21
Band 7	16QAM	2510	20850	20	100	0	17.887	Fig.22
Band 7	16QAM	2535	21100	20	100	0	17.887	Fig.23
Band 7	16QAM	2560	21350	20	100	0	17.887	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
Band 7	64QAM	2502.5	20775	5	25	0	4.472	Fig.25
Band 7	64QAM	2535	21100	5	25	0	4.493	Fig.26
Band 7	64QAM	2567.5	21425	5	25	0	4.472	Fig.27
Band 7	64QAM	2505	20800	10	50	0	8.944	Fig.28
Band 7	64QAM	2535	21100	10	50	0	8.944	Fig.29
Band 7	64QAM	2565	21400	10	50	0	8.944	Fig.30
Band 7	64QAM	2507.5	20825	15	75	0	13.415	Fig.31
Band 7	64QAM	2535	21100	15	75	0	13.415	Fig.32
Band 7	64QAM	2562.5	21375	15	75	0	13.415	Fig.33
Band 7	64QAM	2510	20850	20	100	0	17.887	Fig.34
Band 7	64QAM	2535	21100	20	100	0	17.887	Fig.35
Band 7	64QAM	2560	21350	20	100	0	17.887	Fig.36

Test Mode: QPSK

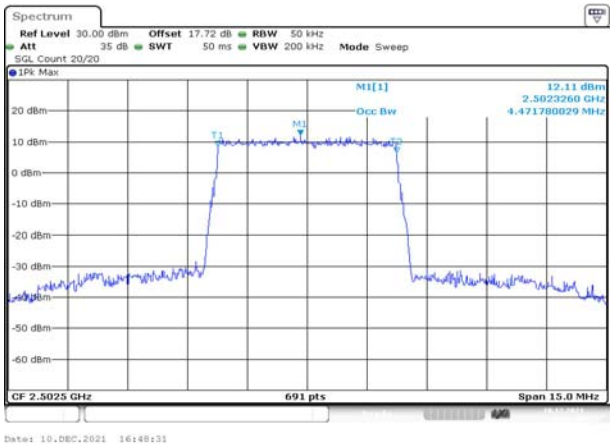


Fig.1

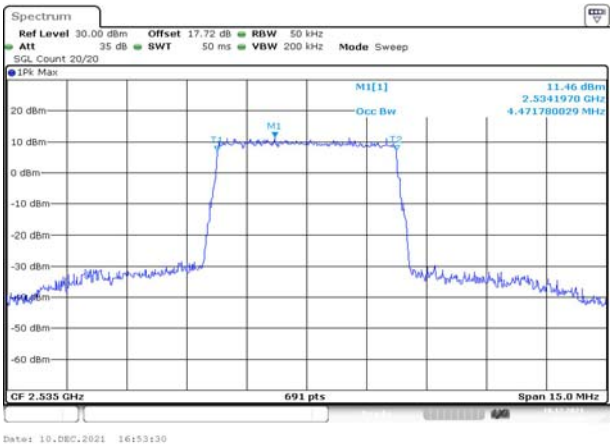


Fig.2

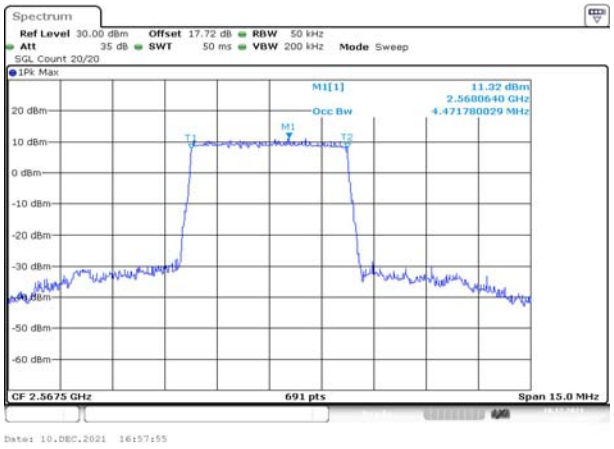


Fig.3

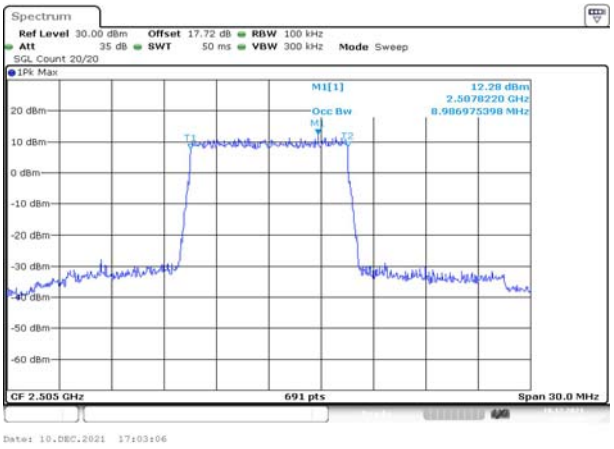


Fig.4

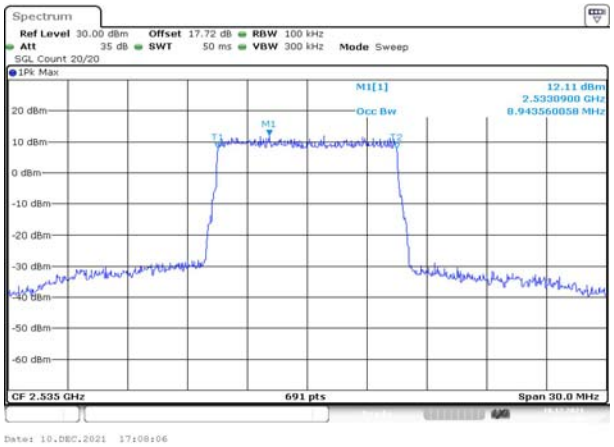


Fig.5

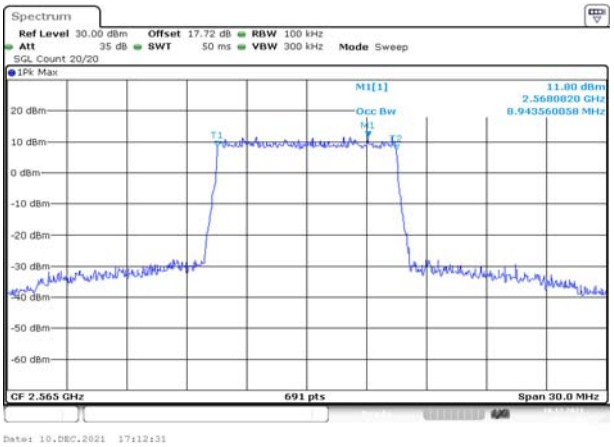


Fig.6

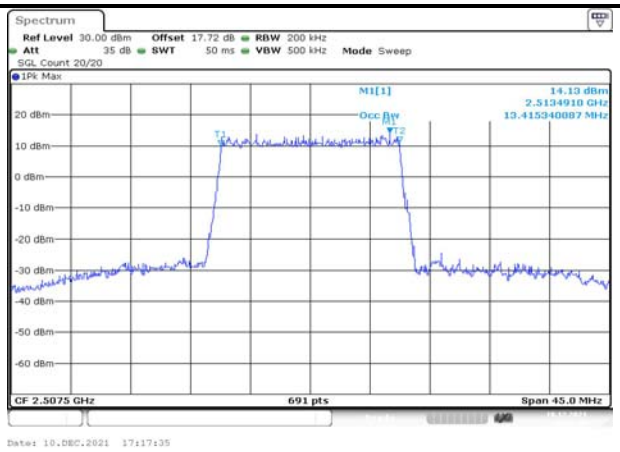


Fig.7

Fig.8

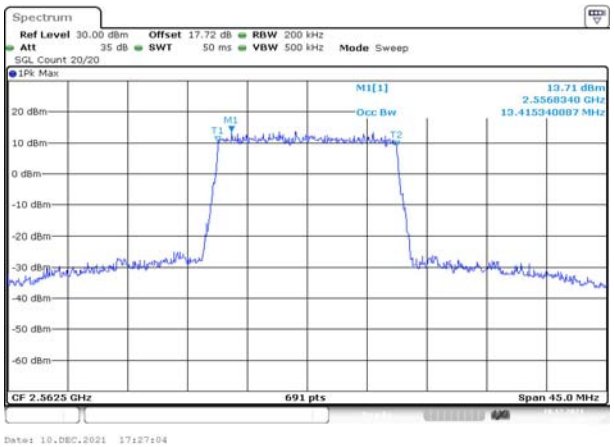
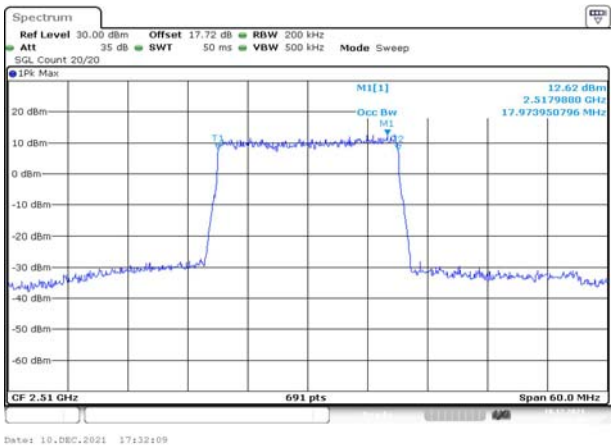


Fig.9



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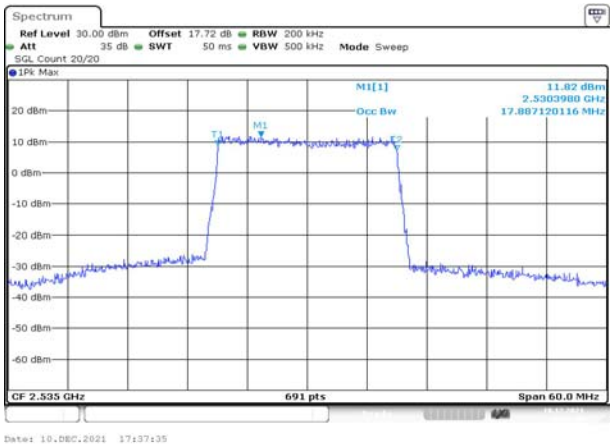


Fig.11

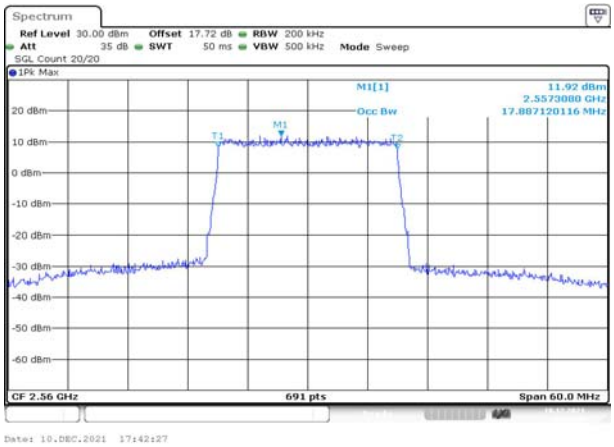


Fig.12

Test Mode: 16QAM

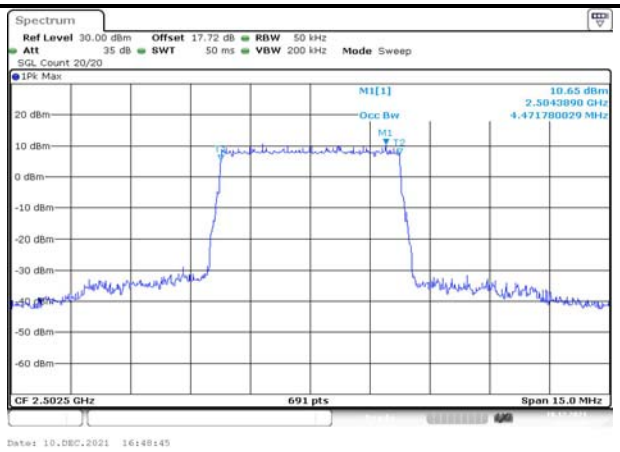
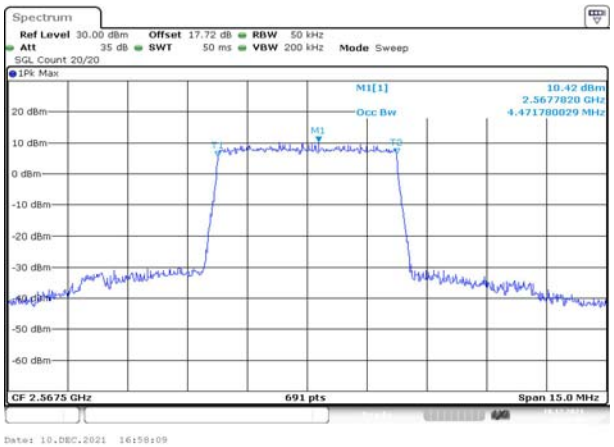


Fig.13

Fig.14



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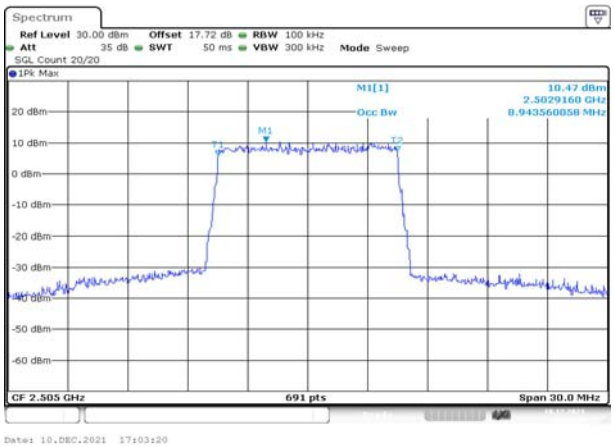

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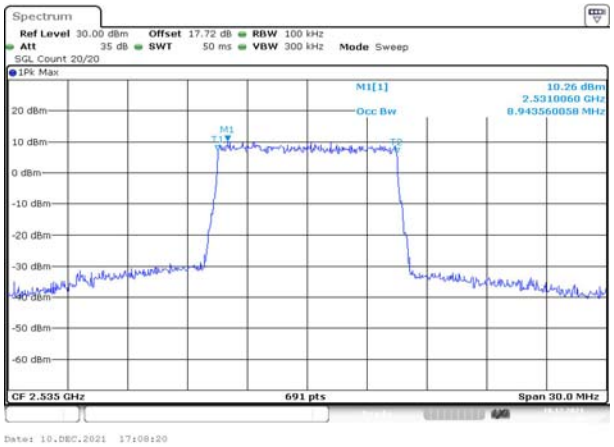
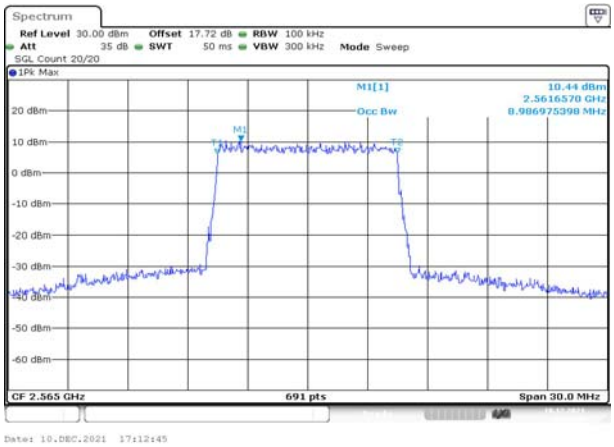


Fig.17



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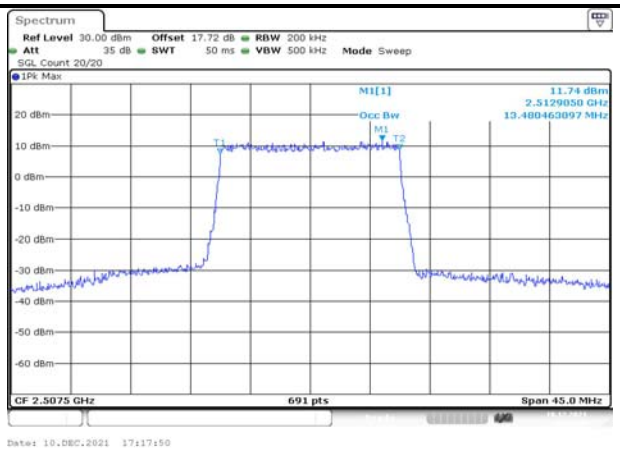


Fig.19

Fig.20

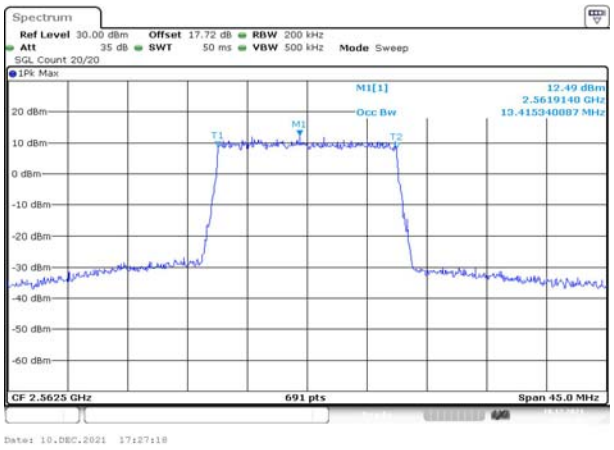
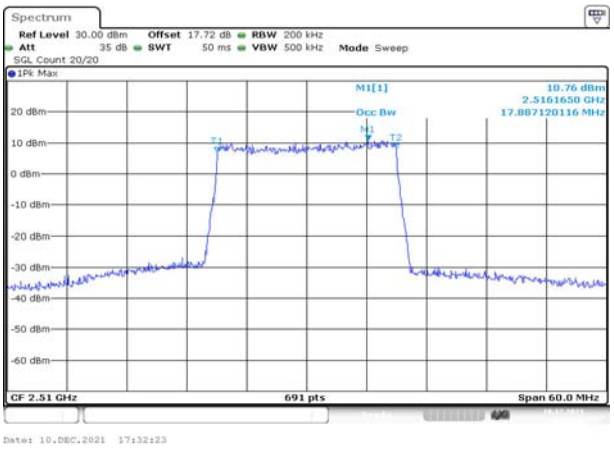


Fig.21



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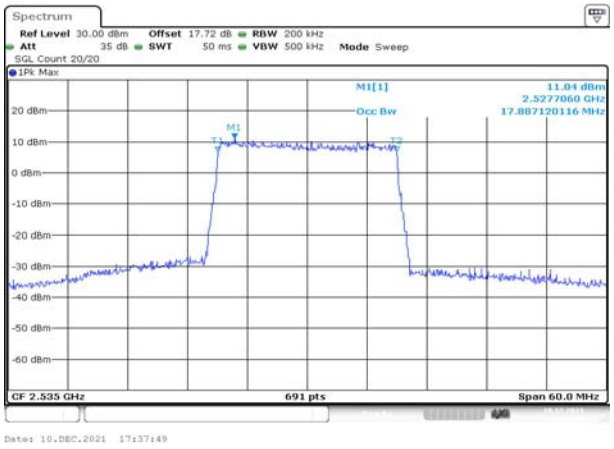

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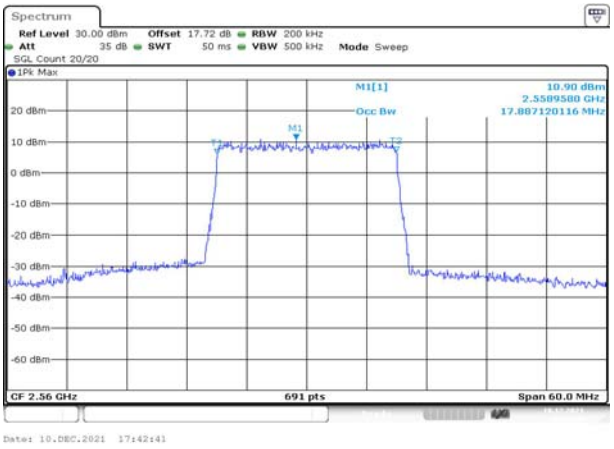


Fig.24

Test Mode: 64QAM

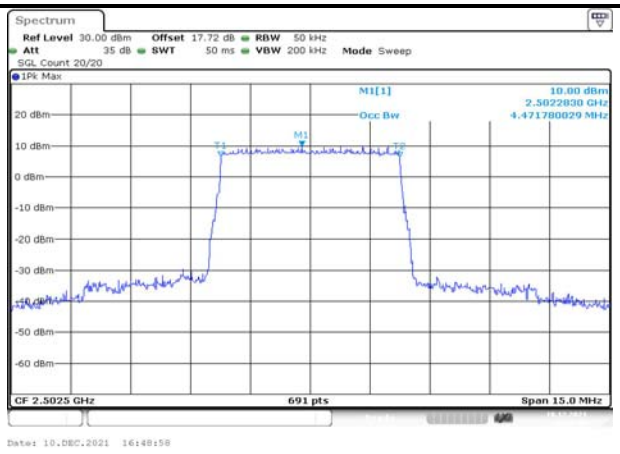


Fig.25

Fig.26

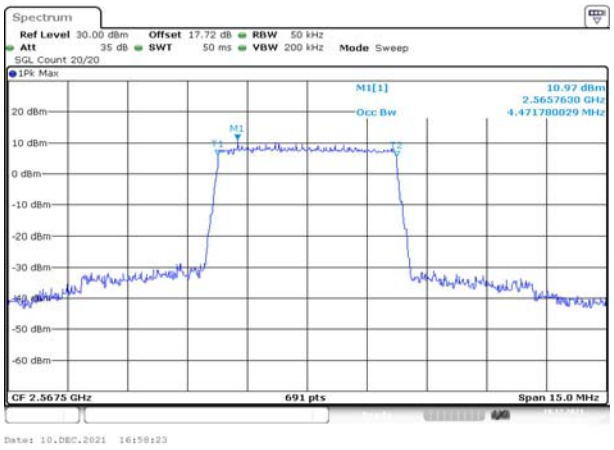


Fig.27

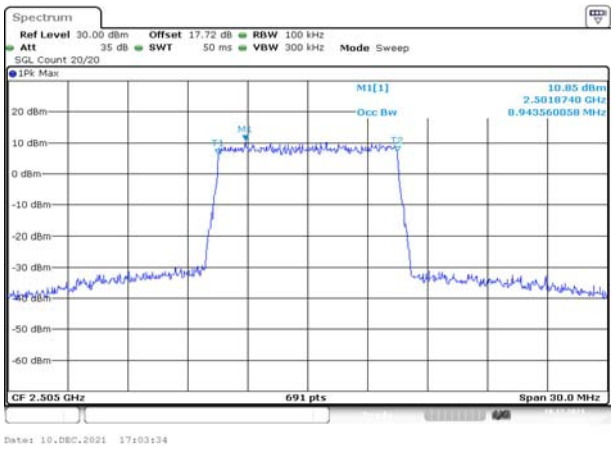


Fig.28

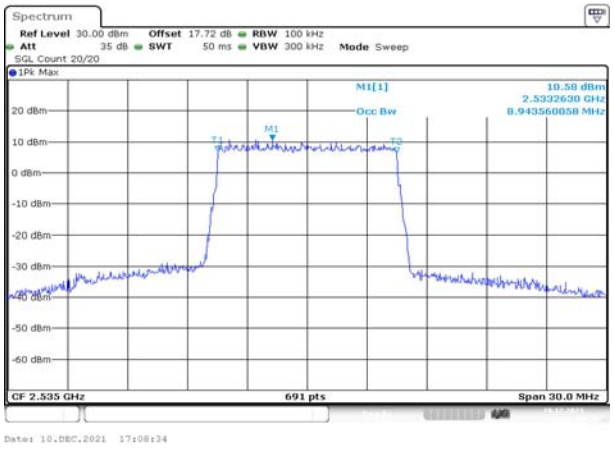


Fig.29

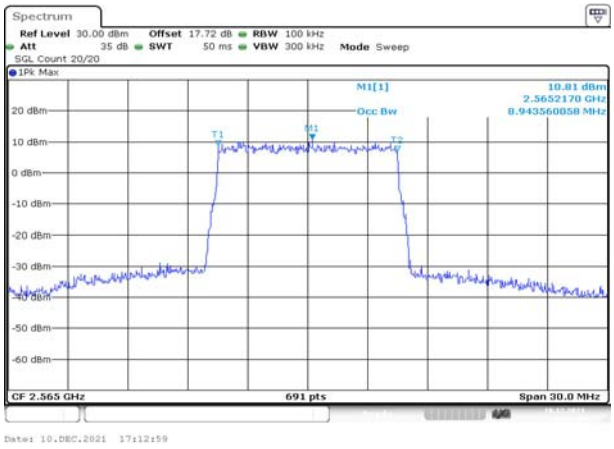


Fig.30

Fig.31

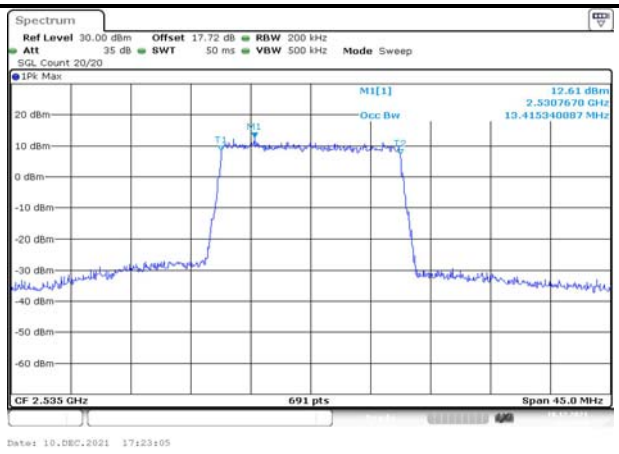


Fig.32

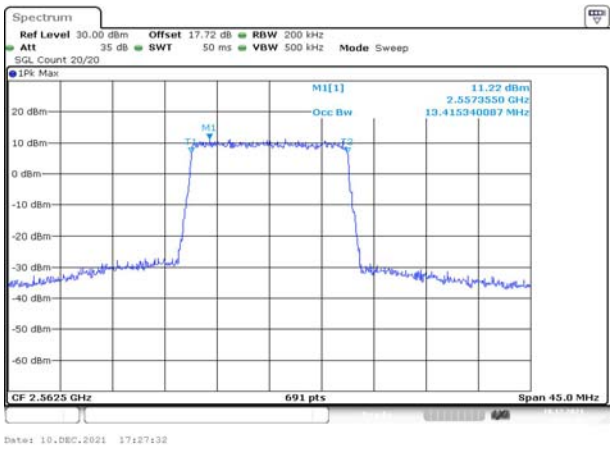


Fig.33

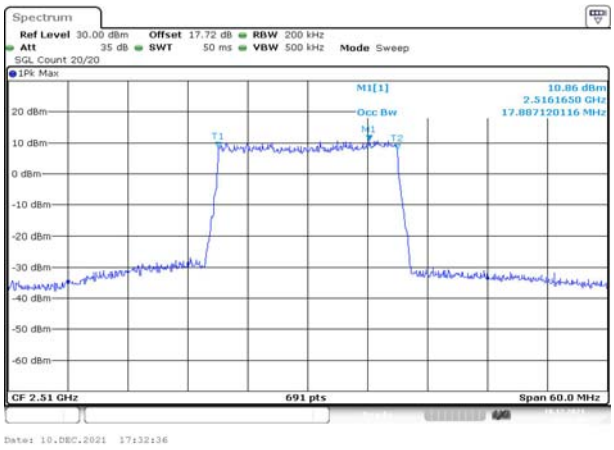


Fig.34

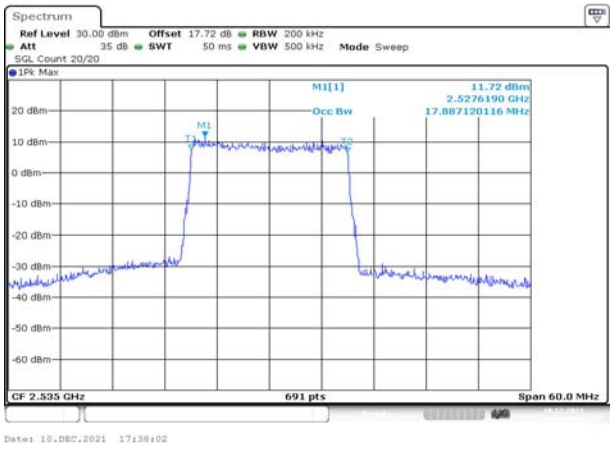


Fig.35

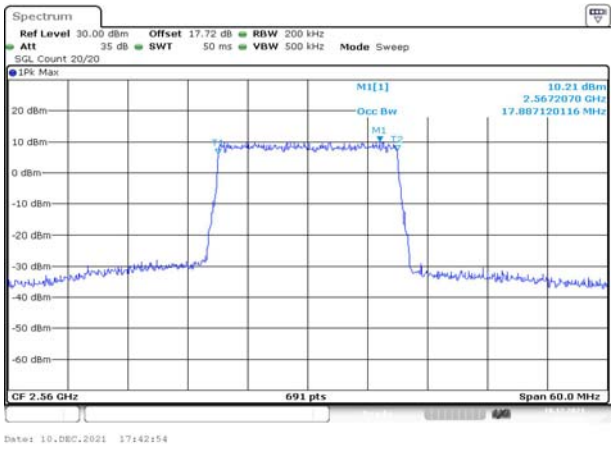


Fig.36

3 Emission Bandwidth

4 Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
Band 7	QPSK	2502.5	20775	5	25	0	4.928	Fig.1
Band 7	QPSK	2535	21100	5	25	0	4.819	Fig.2
Band 7	QPSK	2567.5	21425	5	25	0	4.863	Fig.3
Band 7	QPSK	2505	20800	10	50	0	9.725	Fig.4
Band 7	QPSK	2535	21100	10	50	0	9.725	Fig.5
Band 7	QPSK	2565	21400	10	50	0	9.682	Fig.6
Band 7	QPSK	2507.5	20825	15	75	0	14.653	Fig.7
Band 7	QPSK	2535	21100	15	75	0	14.588	Fig.8
Band 7	QPSK	2562.5	21375	15	75	0	14.588	Fig.9
Band 7	QPSK	2510	20850	20	100	0	19.363	Fig.10
Band 7	QPSK	2535	21100	20	100	0	19.363	Fig.11
Band 7	QPSK	2560	21350	20	100	0	19.363	Fig.12

5 Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
Band 7	16QAM	2502.5	20775	5	25	0	4.863	Fig.13
Band 7	16QAM	2535	21100	5	25	0	4.906	Fig.14
Band 7	16QAM	2567.5	21425	5	25	0	4.884	Fig.15
Band 7	16QAM	2505	20800	10	50	0	9.725	Fig.16
Band 7	16QAM	2535	21100	10	50	0	9.638	Fig.17
Band 7	16QAM	2565	21400	10	50	0	9.595	Fig.18
Band 7	16QAM	2507.5	20825	15	75	0	14.718	Fig.19
Band 7	16QAM	2535	21100	15	75	0	14.718	Fig.20
Band 7	16QAM	2562.5	21375	15	75	0	14.783	Fig.21
Band 7	16QAM	2510	20850	20	100	0	19.537	Fig.22
Band 7	16QAM	2535	21100	20	100	0	19.276	Fig.23
Band 7	16QAM	2560	21350	20	100	0	19.276	Fig.24

6 Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
Band 7	64QAM	2502.5	20775	5	25	0	4.906	Fig.25
Band 7	64QAM	2535	21100	5	25	0	4.863	Fig.26
Band 7	64QAM	2567.5	21425	5	25	0	4.906	Fig.27
Band 7	64QAM	2505	20800	10	50	0	9.595	Fig.28
Band 7	64QAM	2535	21100	10	50	0	9.682	Fig.29
Band 7	64QAM	2565	21400	10	50	0	9.725	Fig.30
Band 7	64QAM	2507.5	20825	15	75	0	14.718	Fig.31
Band 7	64QAM	2535	21100	15	75	0	14.653	Fig.32
Band 7	64QAM	2562.5	21375	15	75	0	14.522	Fig.33
Band 7	64QAM	2510	20850	20	100	0	19.450	Fig.34
Band 7	64QAM	2535	21100	20	100	0	19.190	Fig.35
Band 7	64QAM	2560	21350	20	100	0	19.537	Fig.36

Test Mode: QPSK

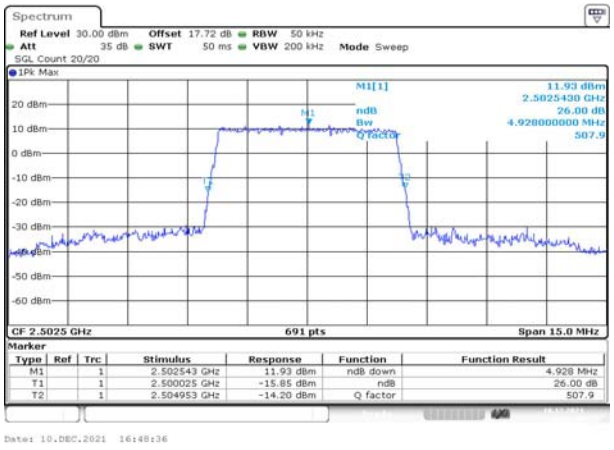


Fig.1

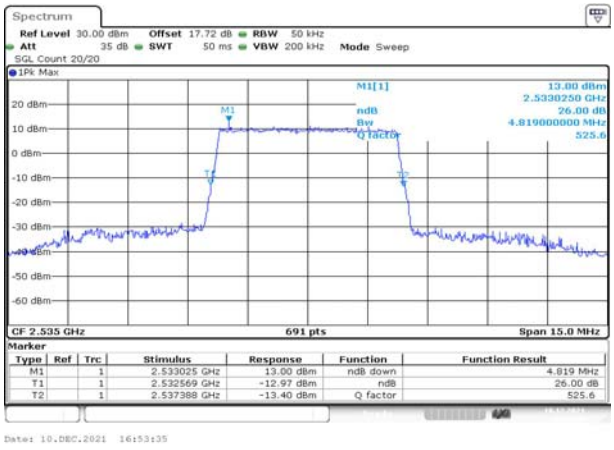


Fig.2

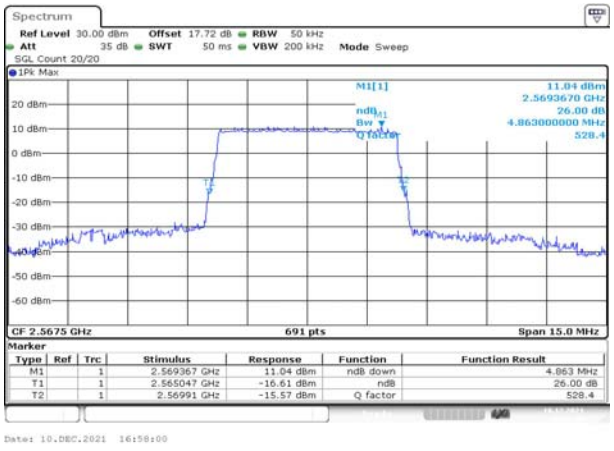


Fig.3

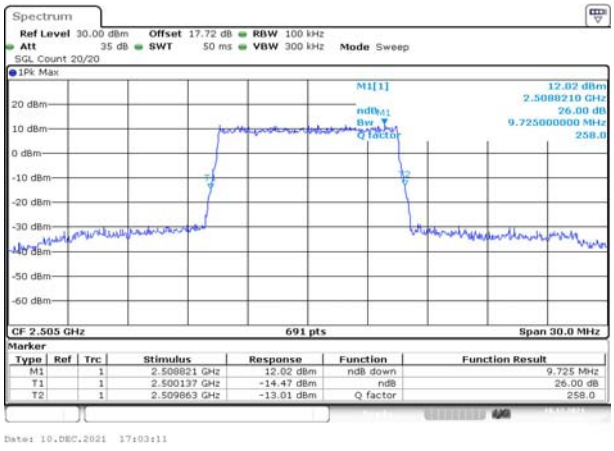


Fig.4

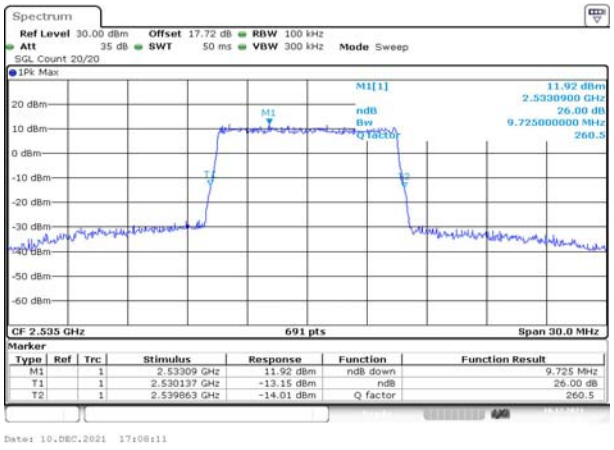


Fig.5

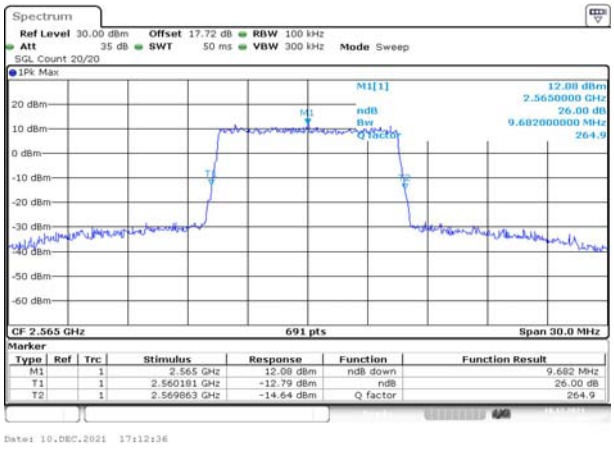


Fig.6

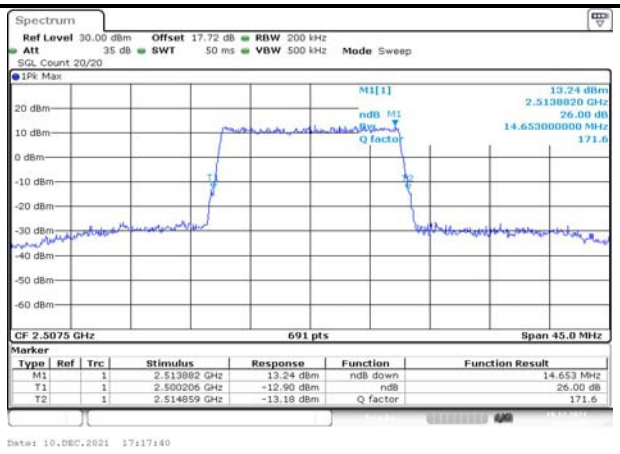


Fig.7

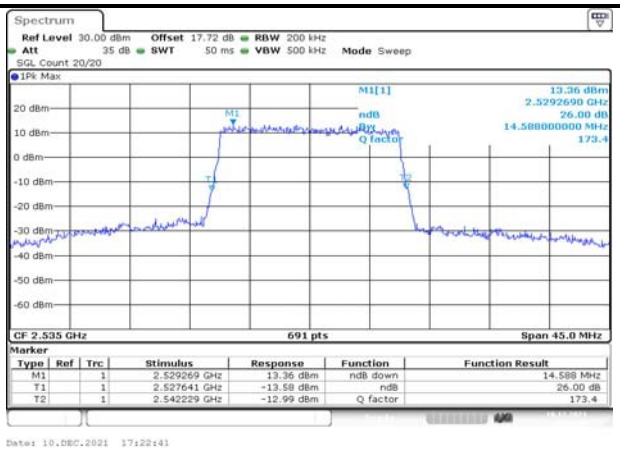


Fig.8

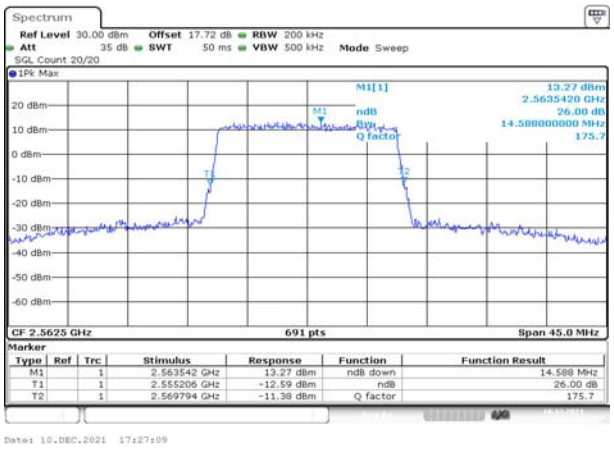


Fig.9

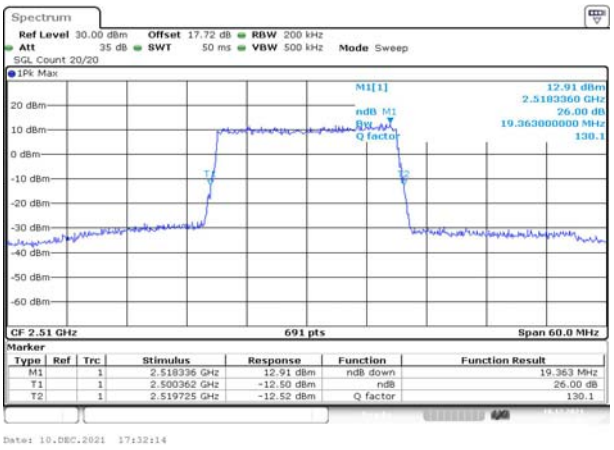


Fig.10

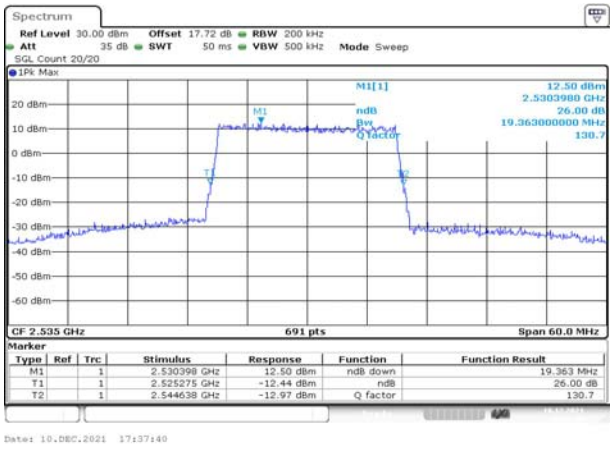


Fig.11

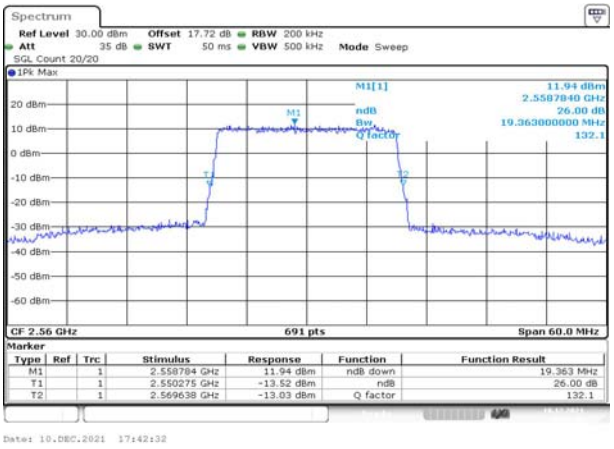


Fig.12

Test Mode: 16QAM

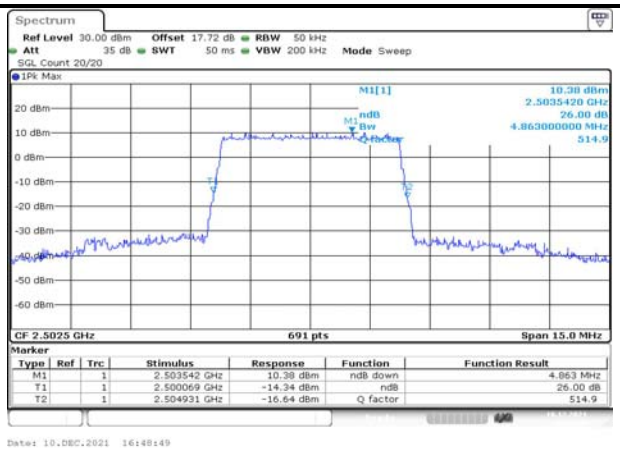


Fig.13

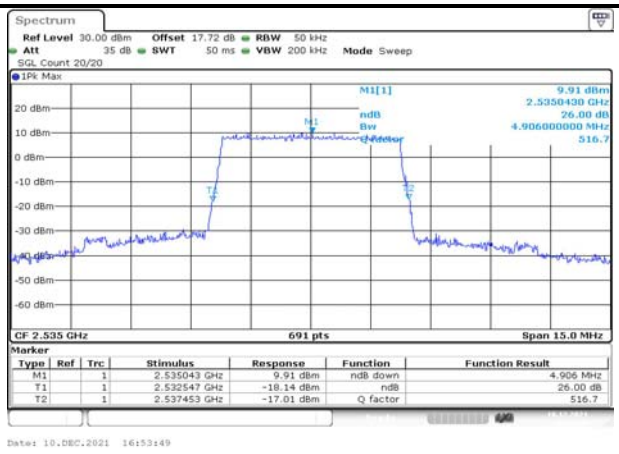


Fig.14

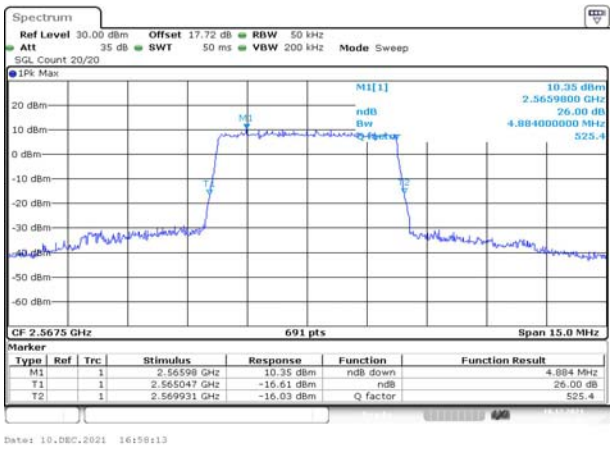


Fig.15

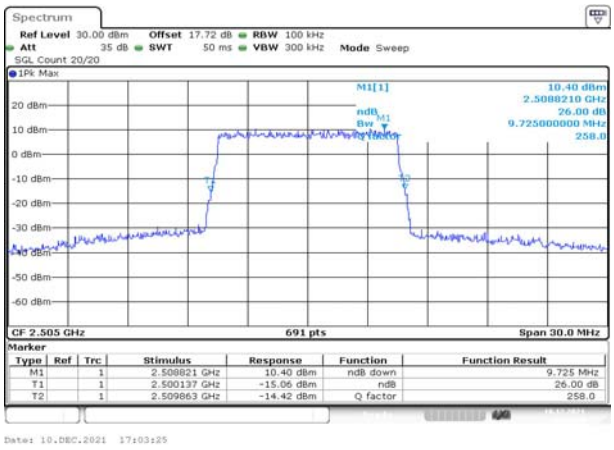


Fig.16

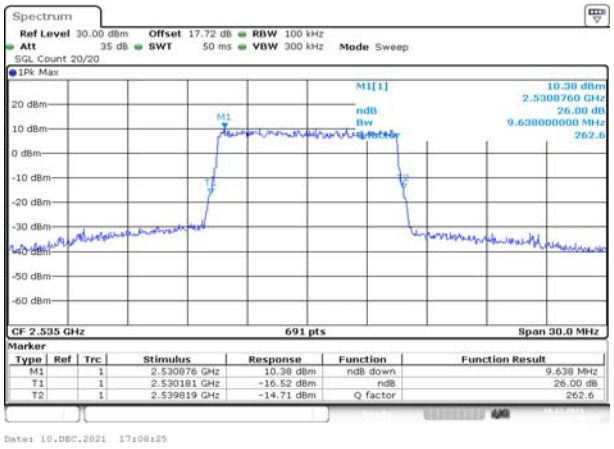


Fig.17

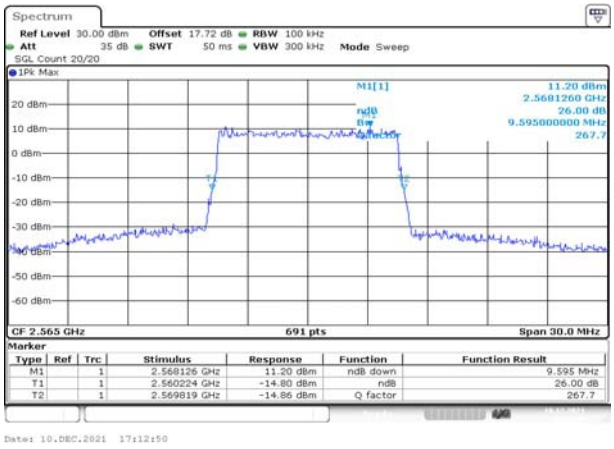


Fig.18

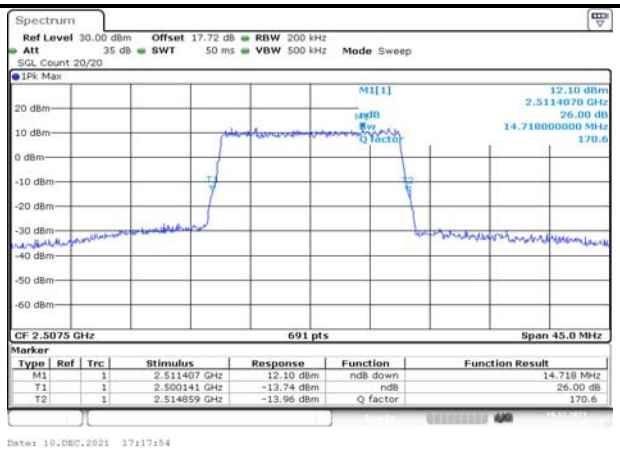


Fig.19

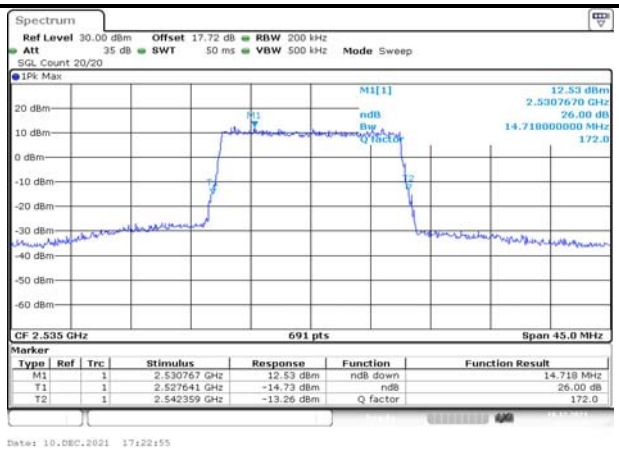


Fig.20

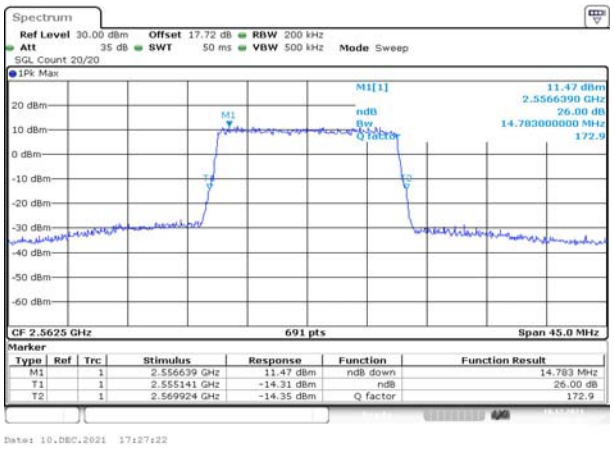


Fig.21

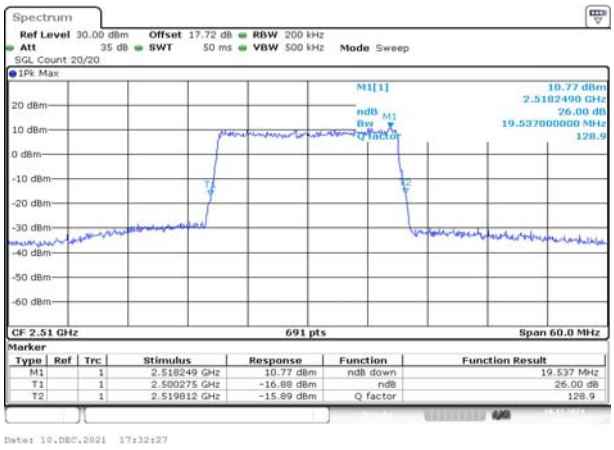


Fig.22

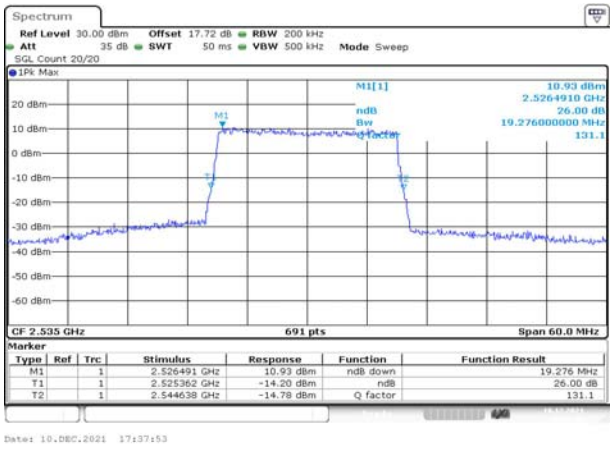


Fig.23

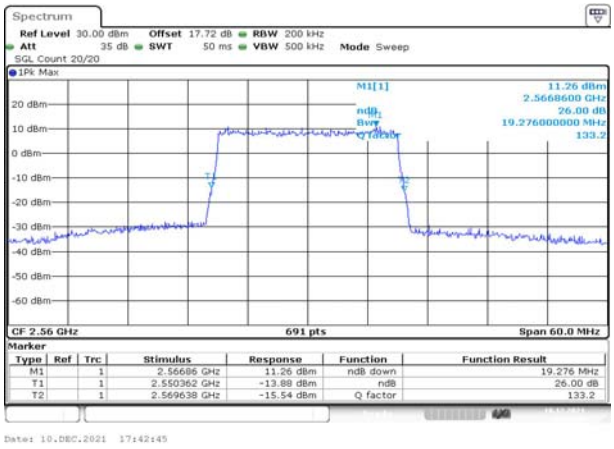
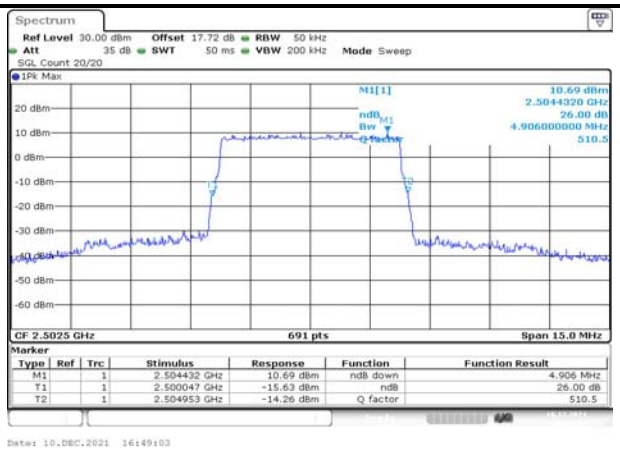


Fig.24

Test Mode: 64QAM



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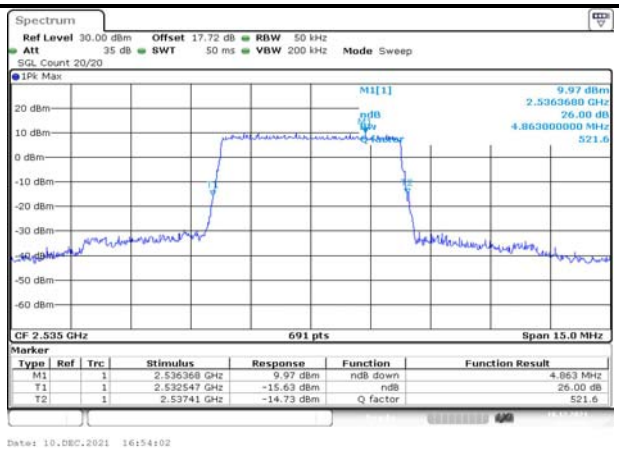

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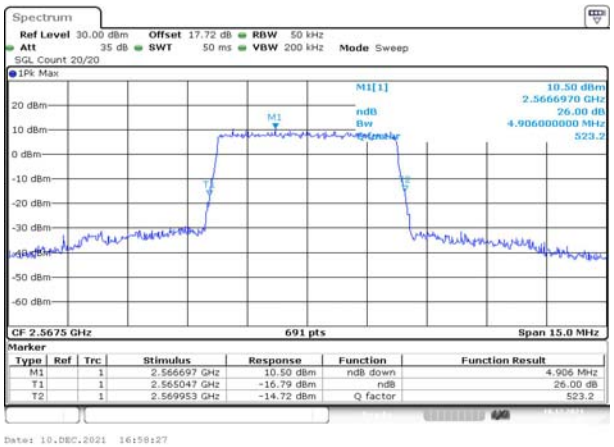

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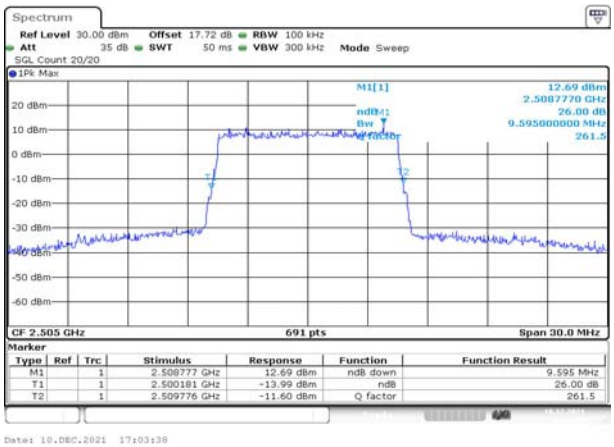

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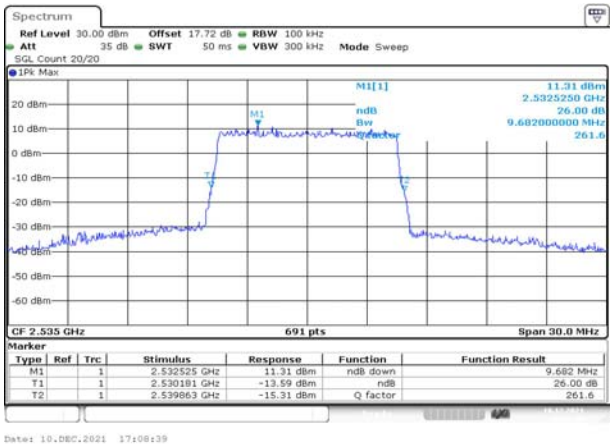

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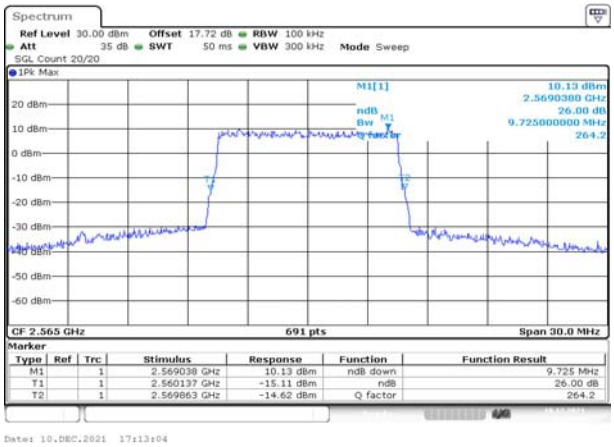

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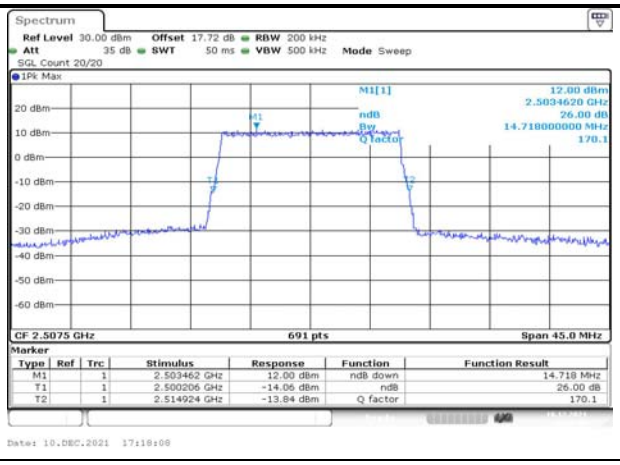

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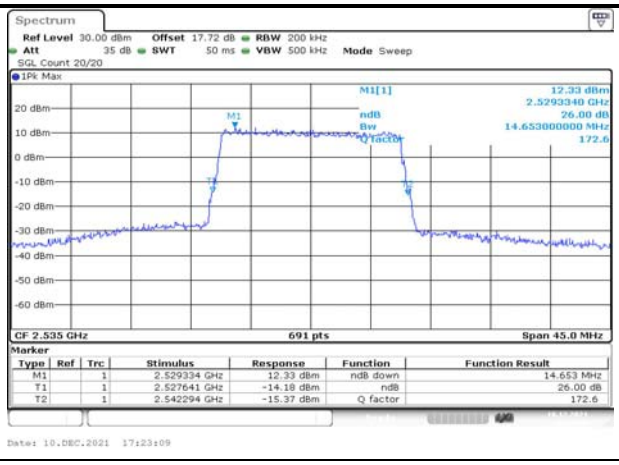

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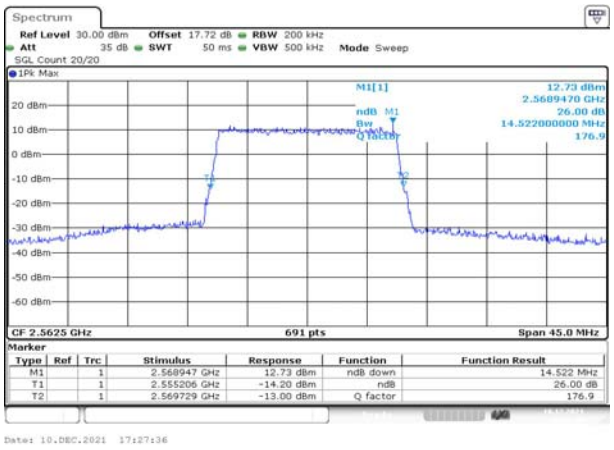

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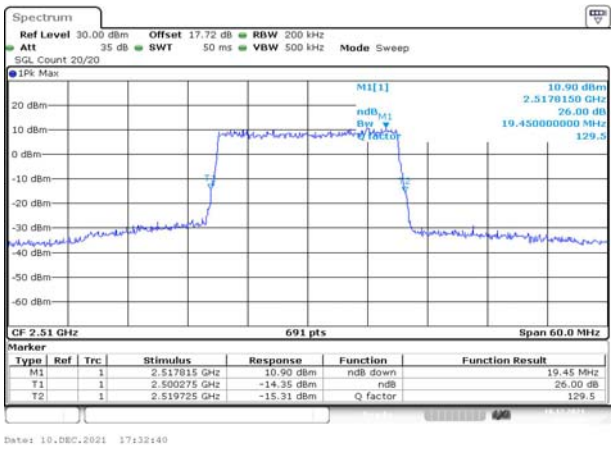
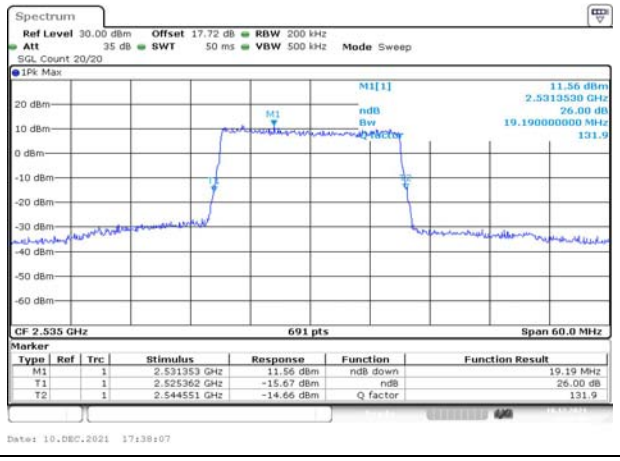


Fig.34



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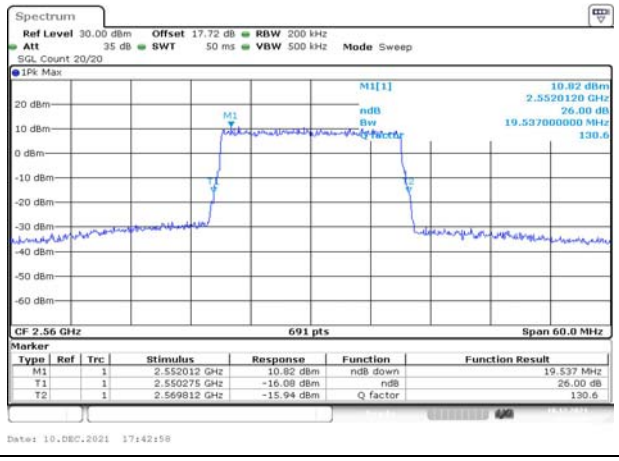


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
7	2502.5	20775	5	1	24	Fig.1	Fig.2	Fig.3
7	2502.5	20775	5	25	0	Fig.4	Fig.5	Fig.6
7	2535	21100	5	1	24	Fig.7	Fig.8	Fig.9
7	2535	21100	5	25	0	Fig.10	Fig.11	Fig.12
7	2567.5	21425	5	1	24	Fig.13	Fig.14	Fig.15
7	2567.5	21425	5	25	0	Fig.16	Fig.17	Fig.18
7	2505	20800	10	1	49	Fig.19	Fig.20	Fig.21
7	2505	20800	10	50	0	Fig.22	Fig.23	Fig.24
7	2535	21100	10	1	49	Fig.25	Fig.26	Fig.27
7	2535	21100	10	50	0	Fig.28	Fig.29	Fig.30
7	2565	21400	10	1	49	Fig.31	Fig.32	Fig.33
7	2565	21400	10	50	0	Fig.34	Fig.35	Fig.36
7	2507.5	20825	15	1	74	Fig.37	Fig.38	Fig.39
7	2507.5	20825	15	75	0	Fig.40	Fig.41	Fig.42
7	2535	21100	15	1	74	Fig.43	Fig.44	Fig.45
7	2535	21100	15	75	0	Fig.46	Fig.47	Fig.48
7	2562.5	21375	15	1	74	Fig.49	Fig.50	Fig.51
7	2562.5	21375	15	75	0	Fig.52	Fig.53	Fig.54
7	2510	20850	20	1	99	Fig.55	Fig.56	Fig.57
7	2510	20850	20	100	0	Fig.58	Fig.59	Fig.60
7	2535	21100	20	1	99	Fig.61	Fig.62	Fig.63
7	2535	21100	20	100	0	Fig.64	Fig.65	Fig.66
7	2560	21350	20	1	99	Fig.67	Fig.68	Fig.69
7	2560	21350	20	100	0	Fig.70	Fig.71	Fig.72

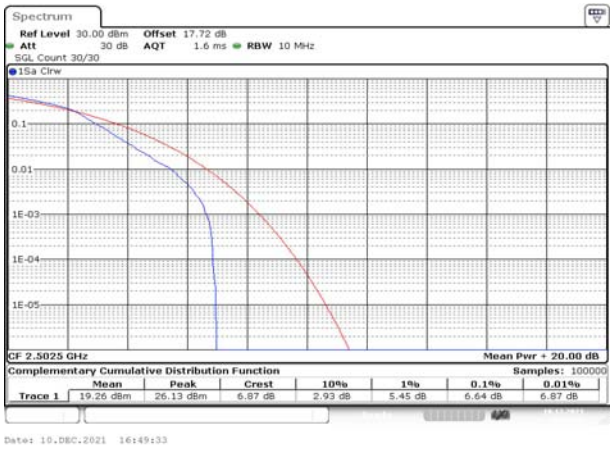
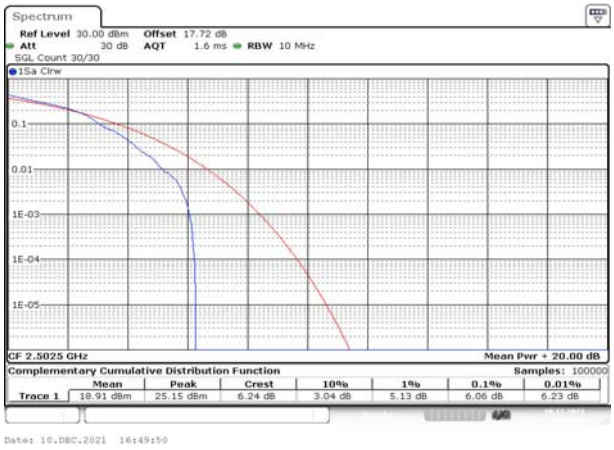


Fig.1



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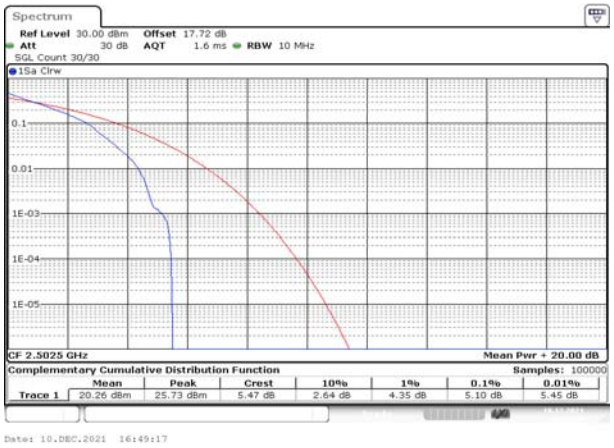

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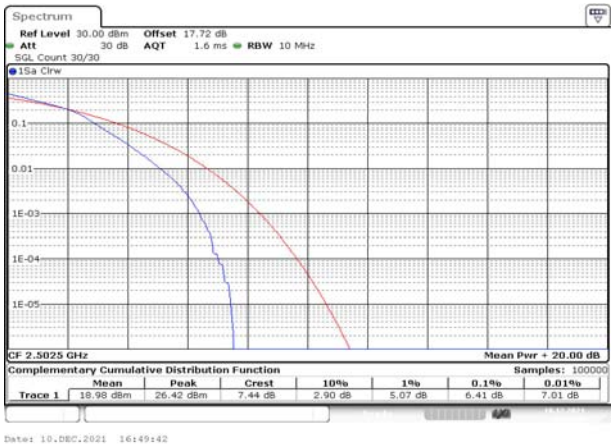


Fig.4

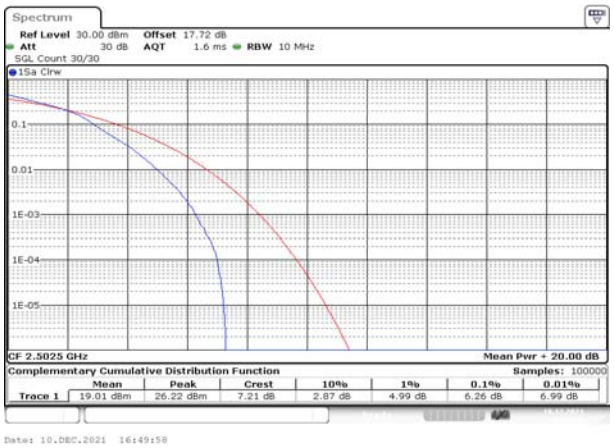


Fig.5

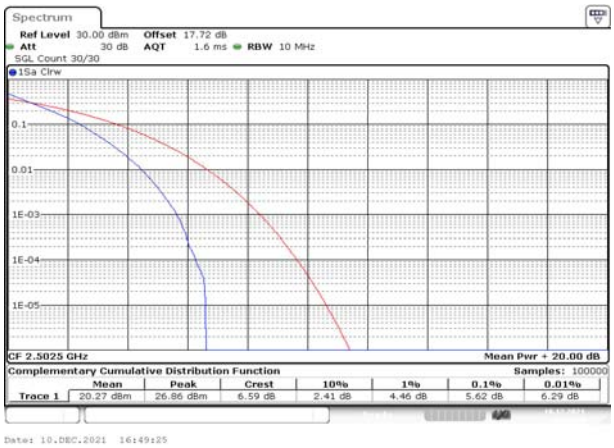
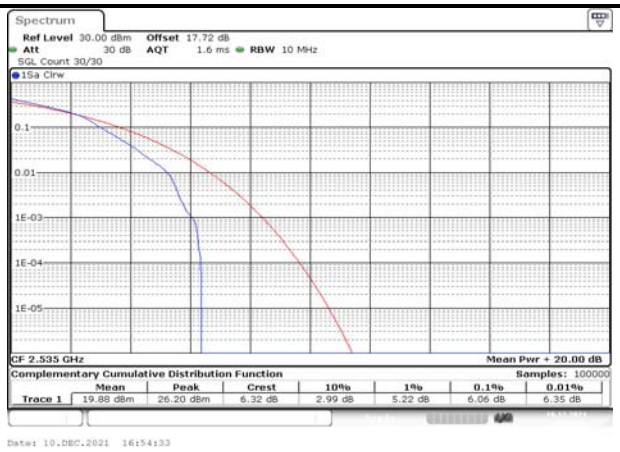


Fig.6



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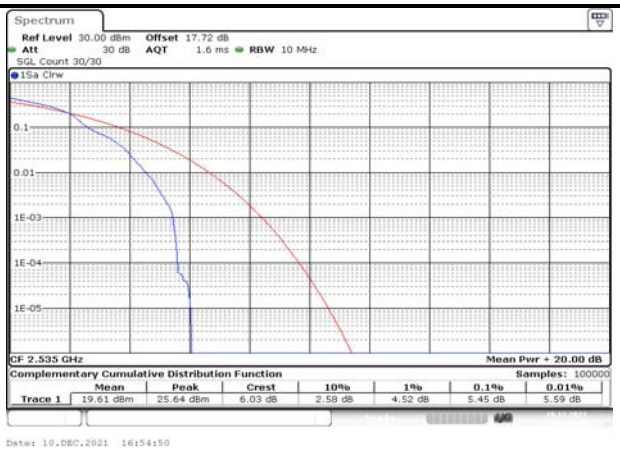


Fig.8

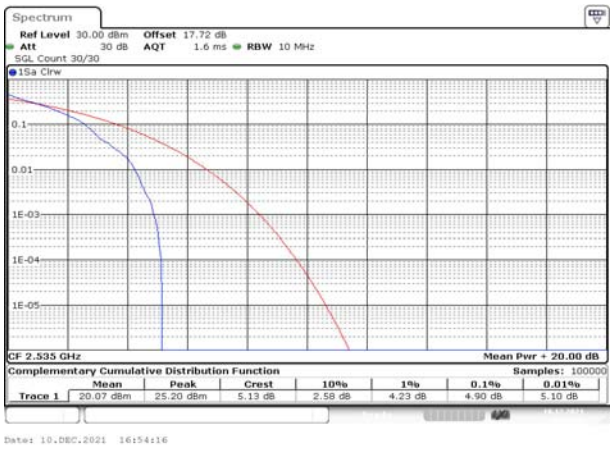


Fig.9

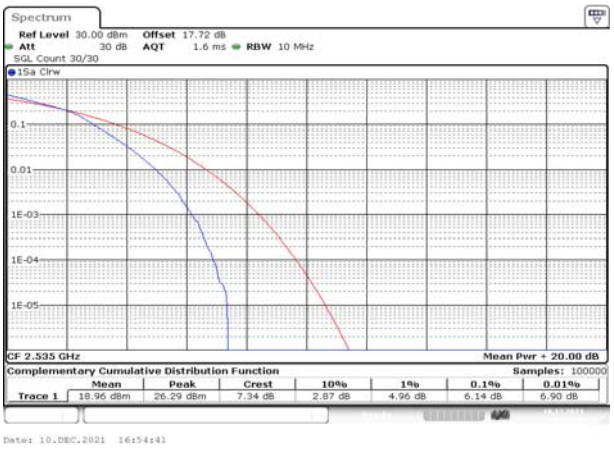


Fig.10

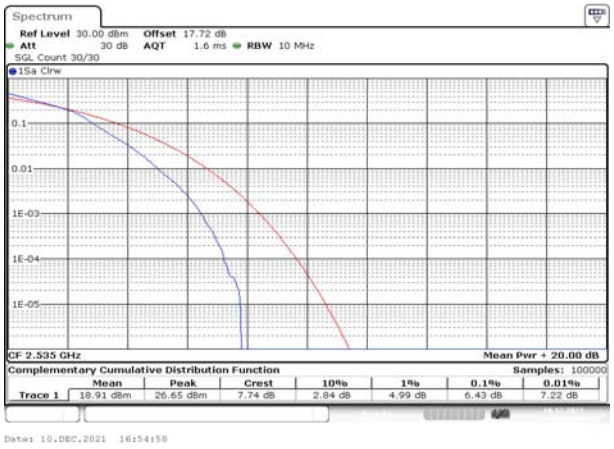
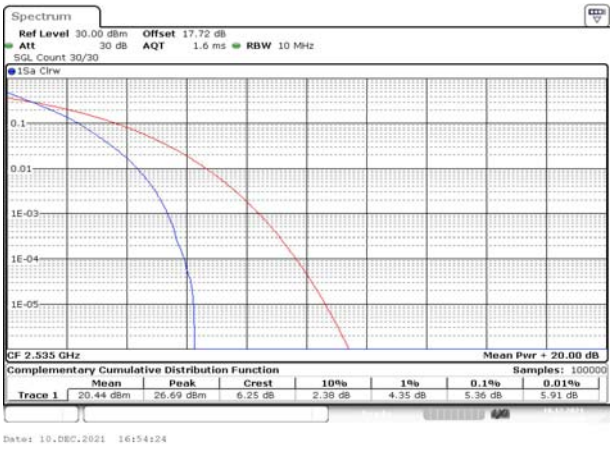


Fig.11



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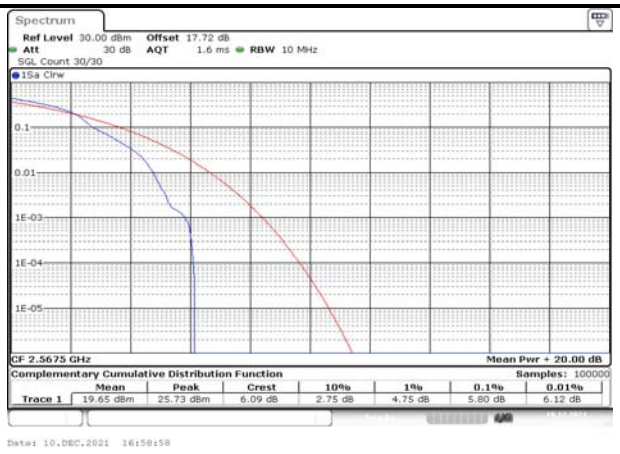

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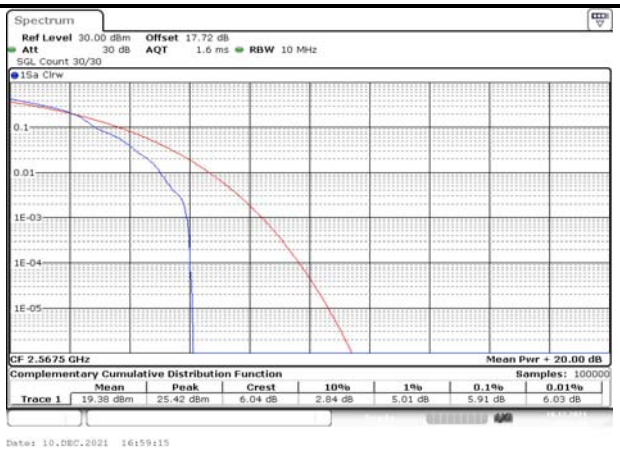

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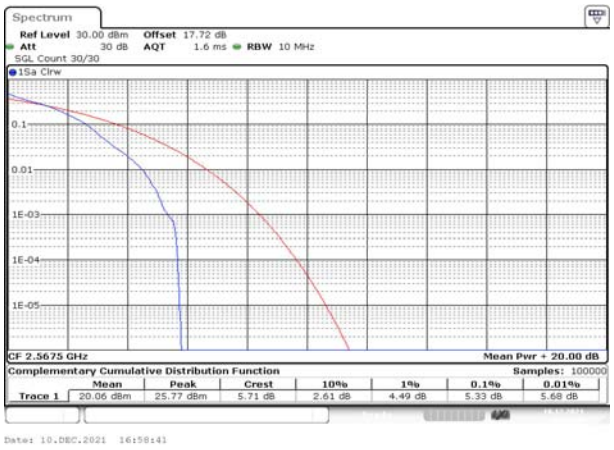

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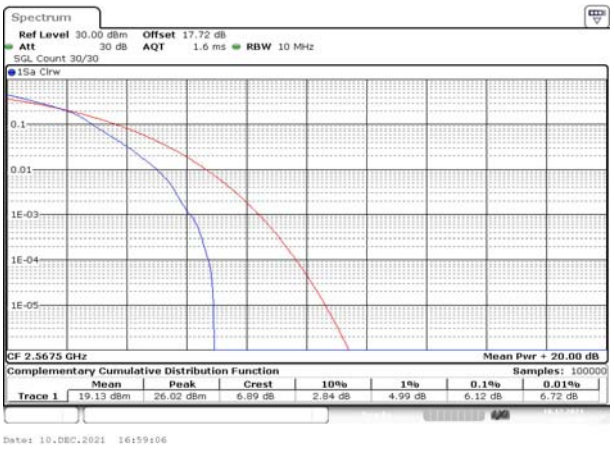

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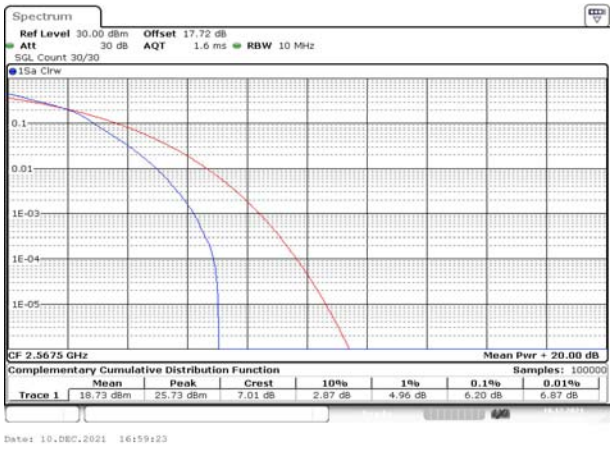

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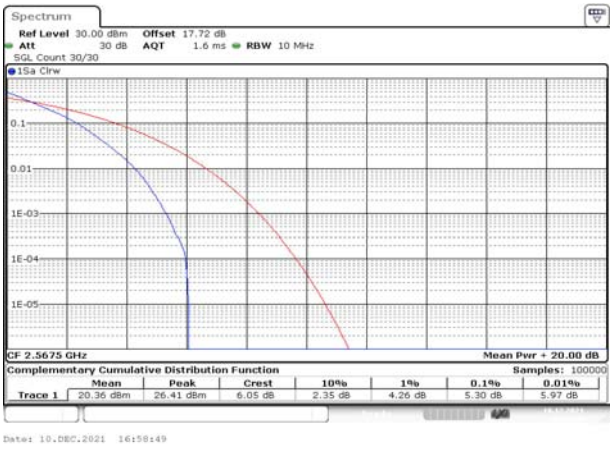

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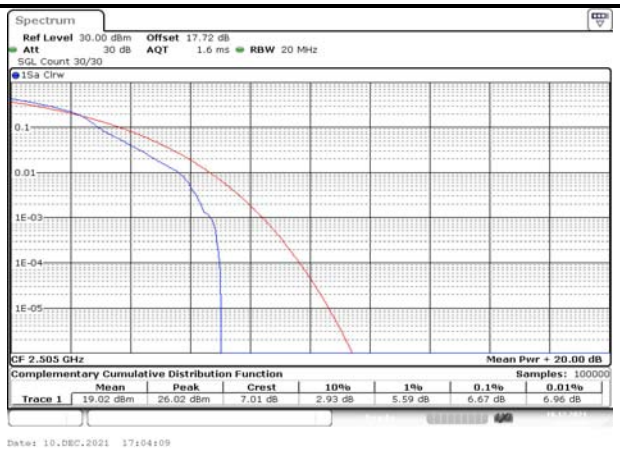

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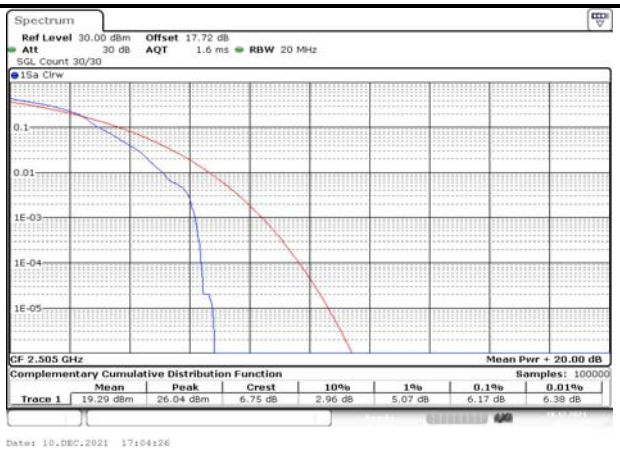

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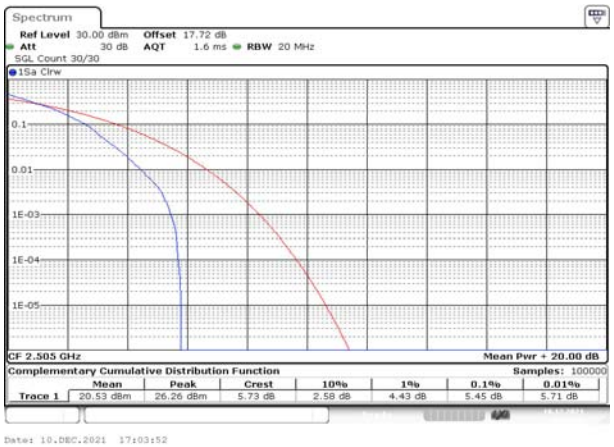

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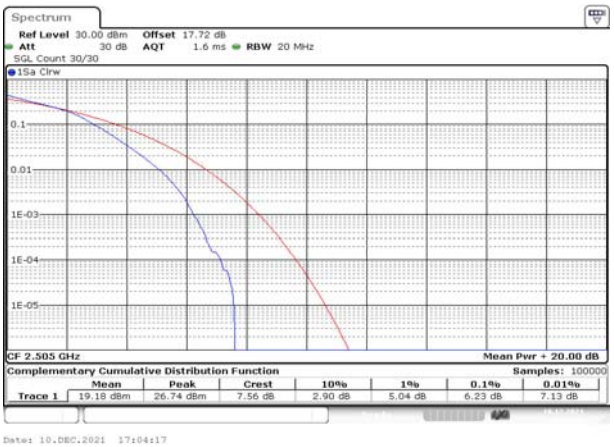

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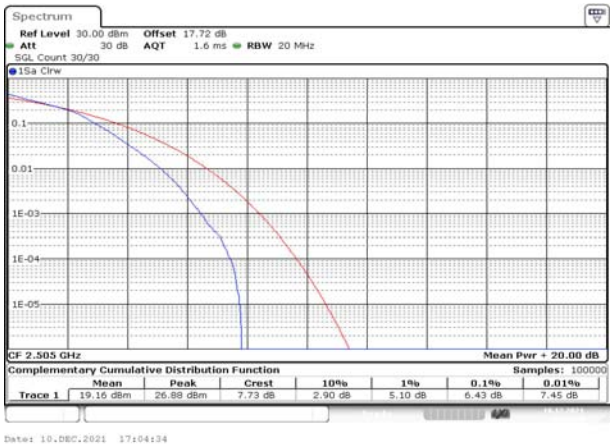

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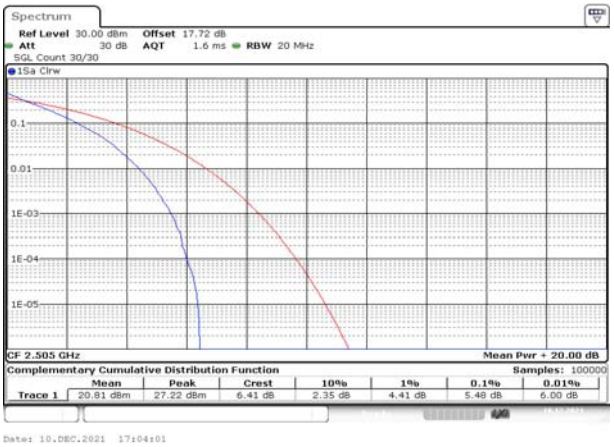

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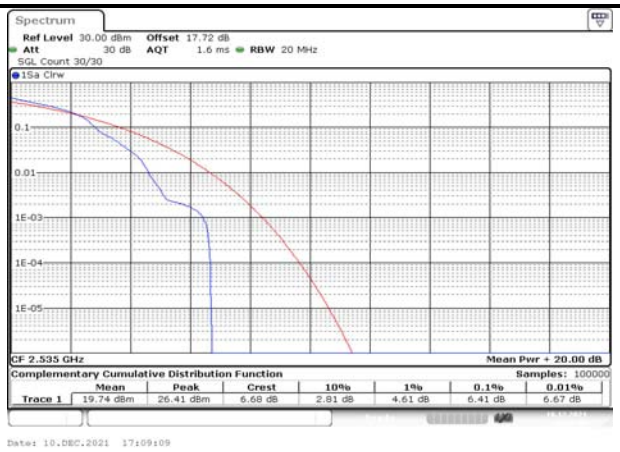

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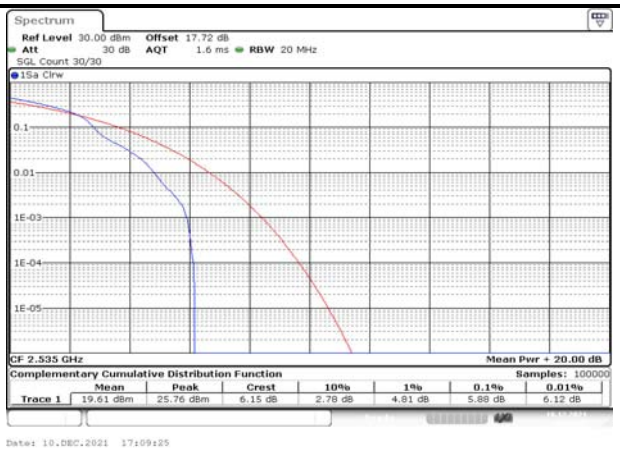


Fig.26

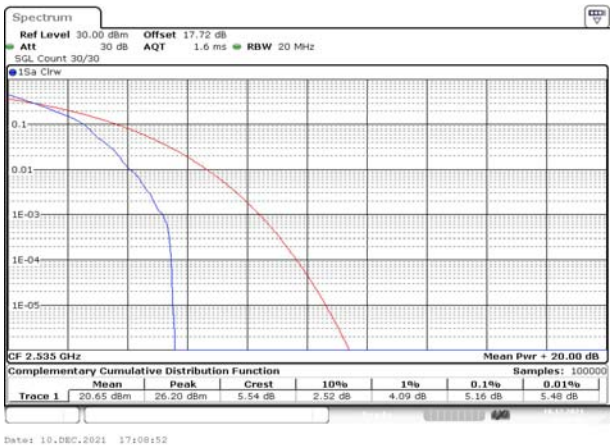


Fig.27

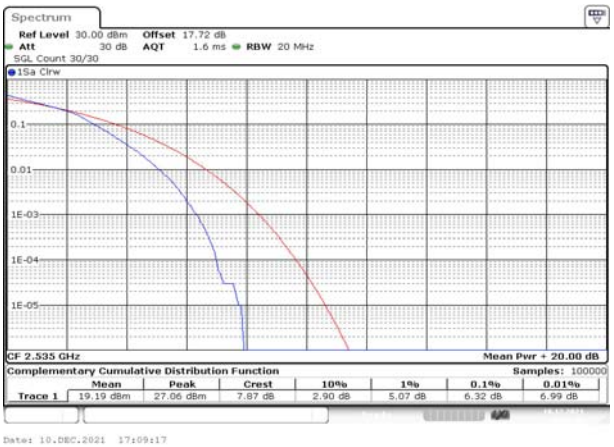
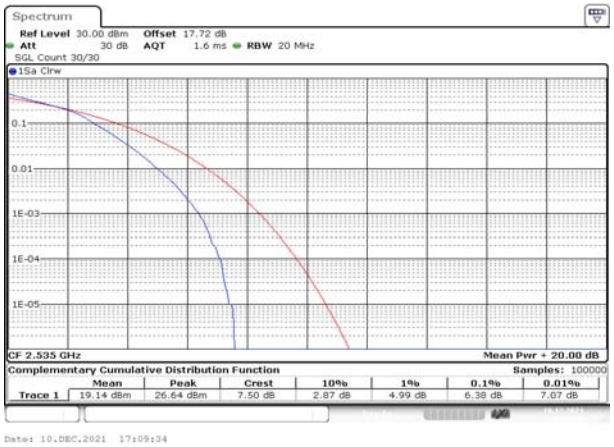


Fig.28



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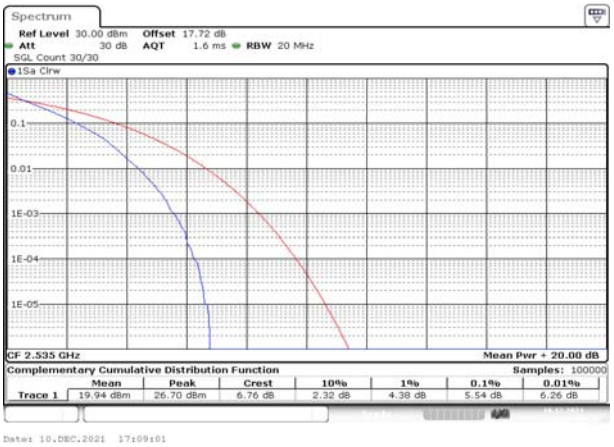
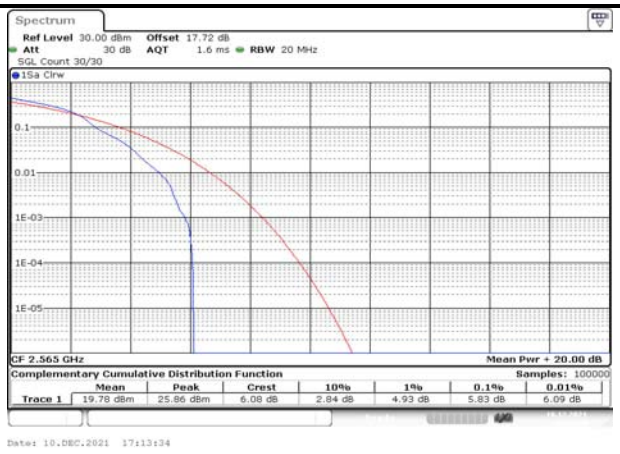


Fig.30



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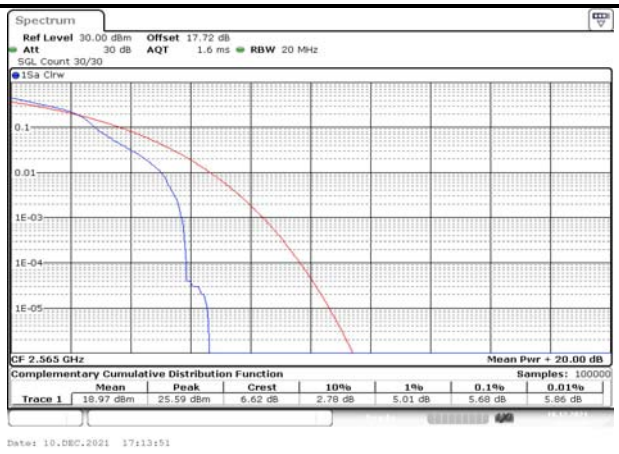

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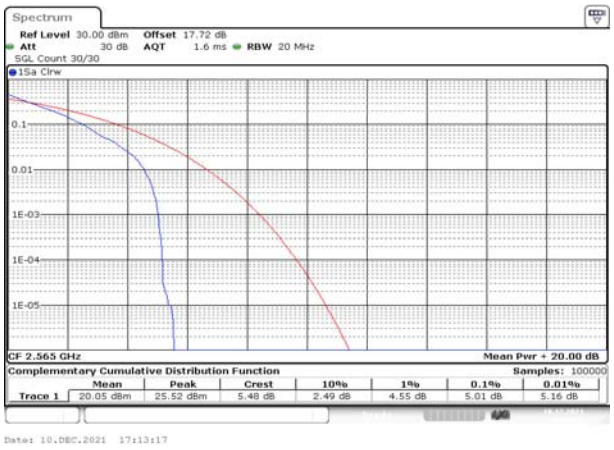

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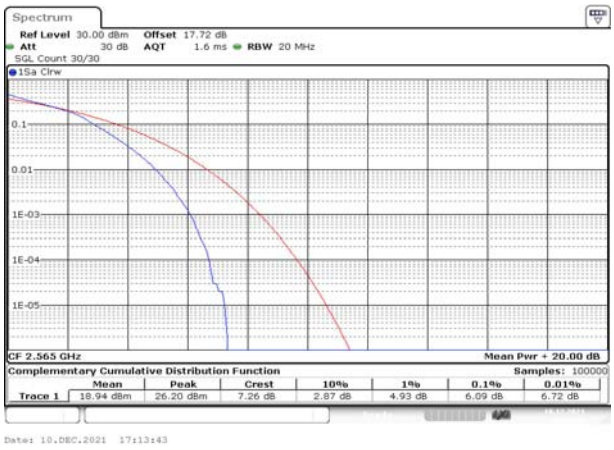

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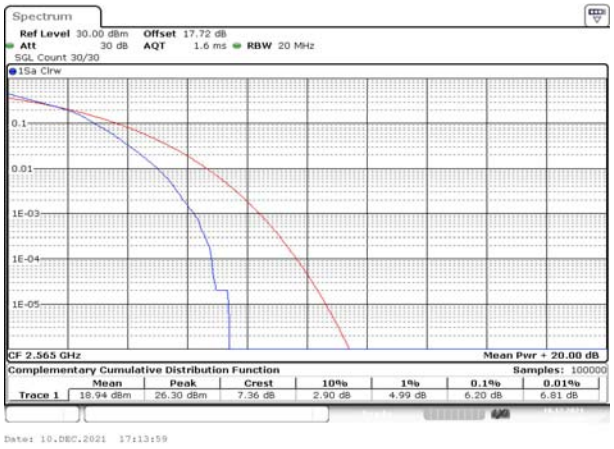

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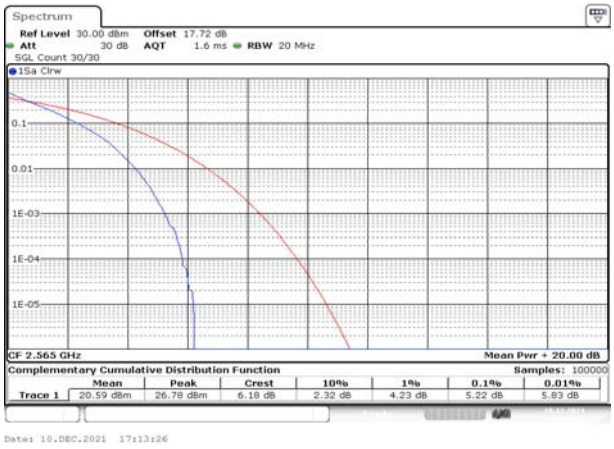


Fig.36

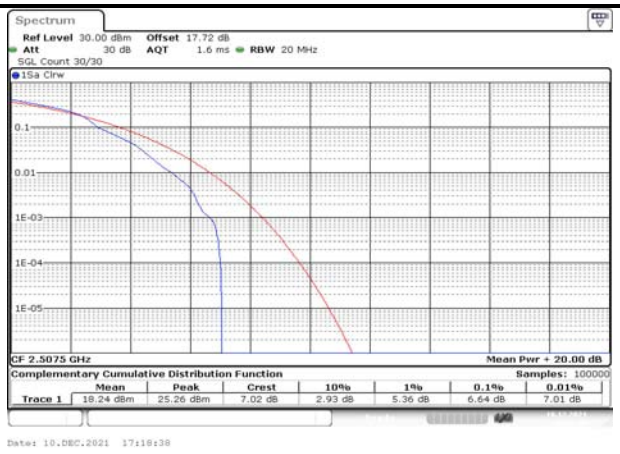
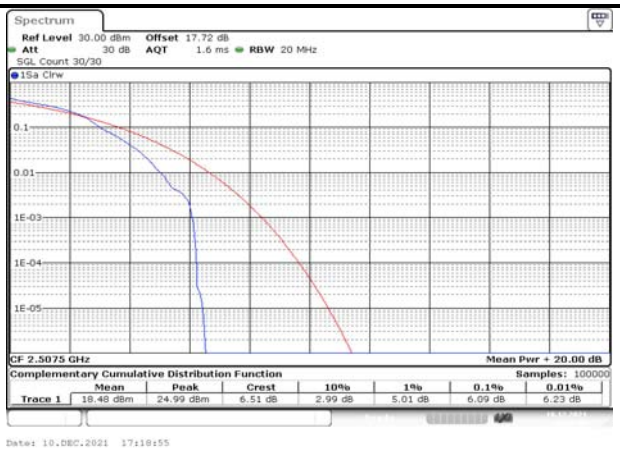


Fig.37



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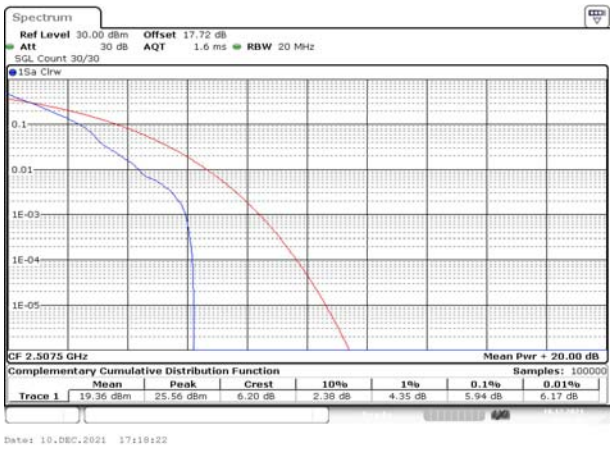

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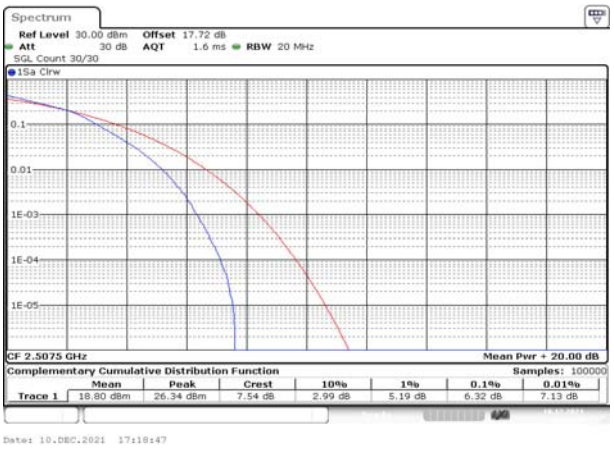

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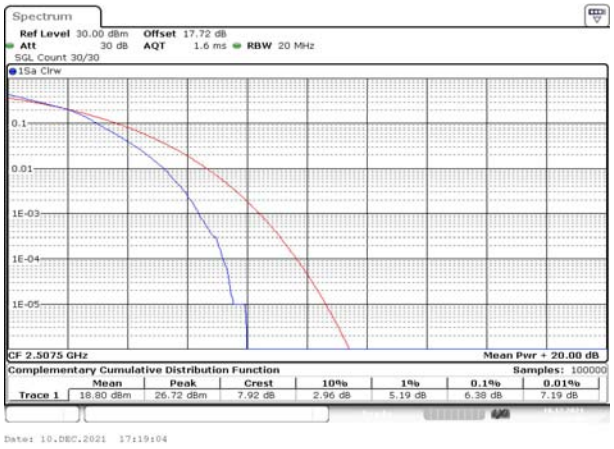

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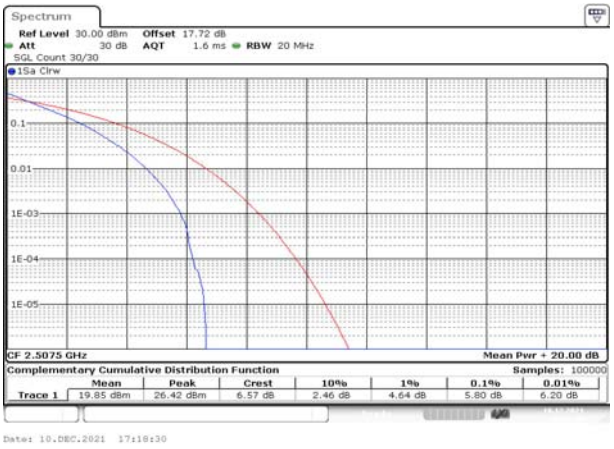

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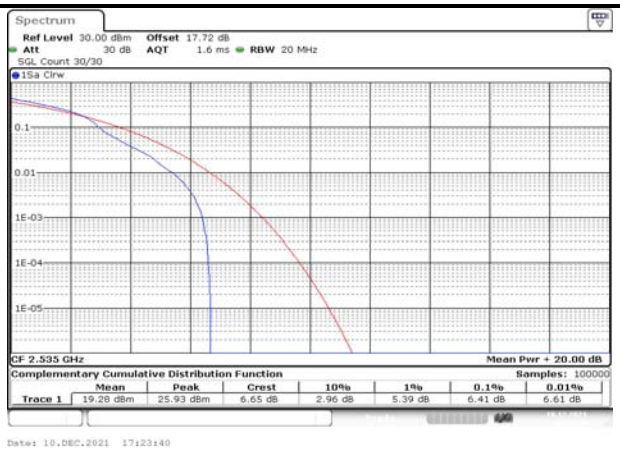

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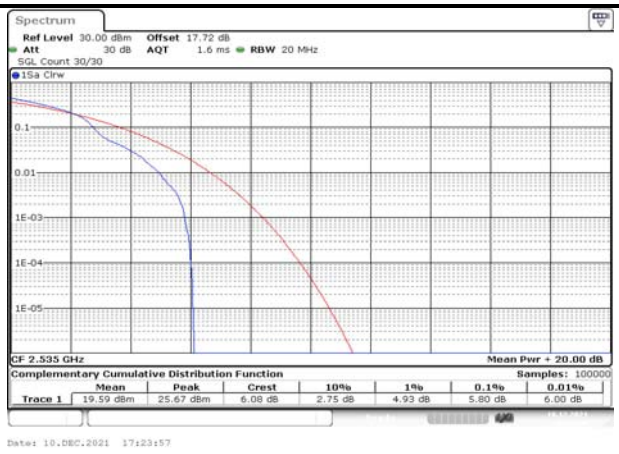

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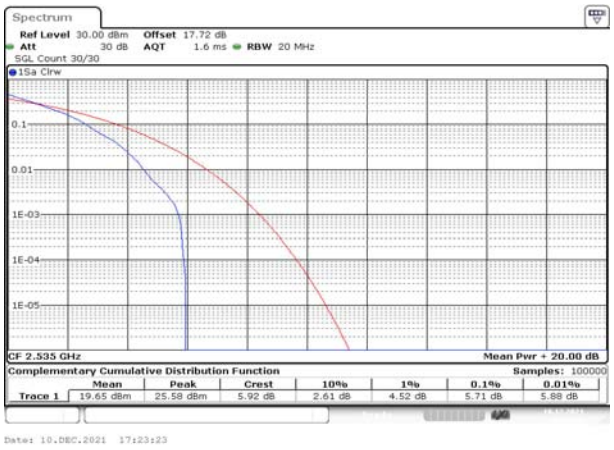

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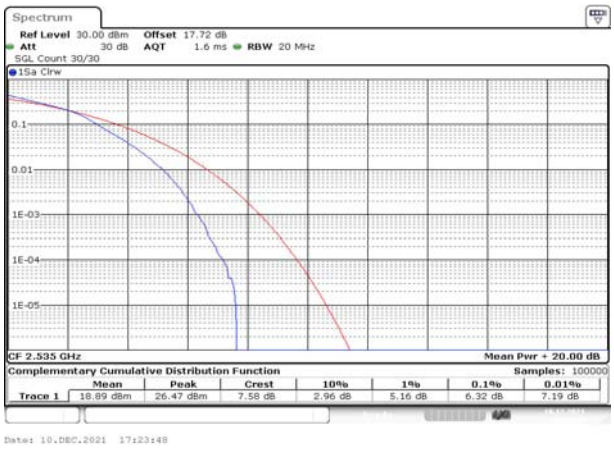

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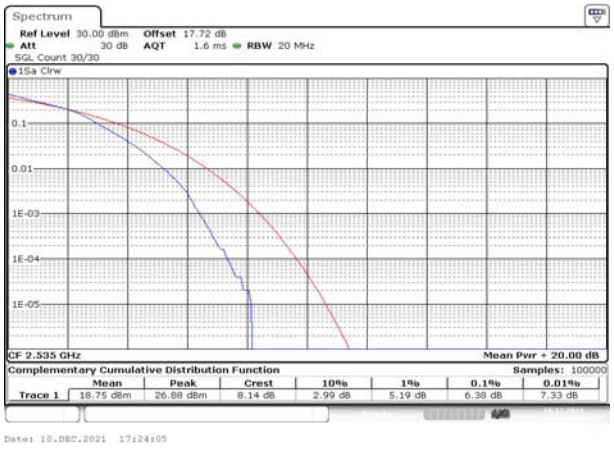

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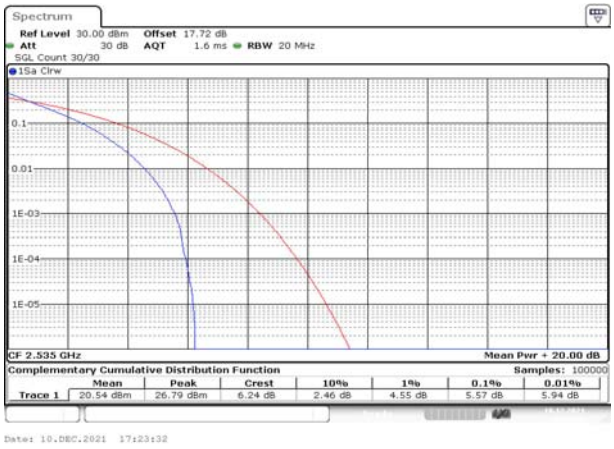

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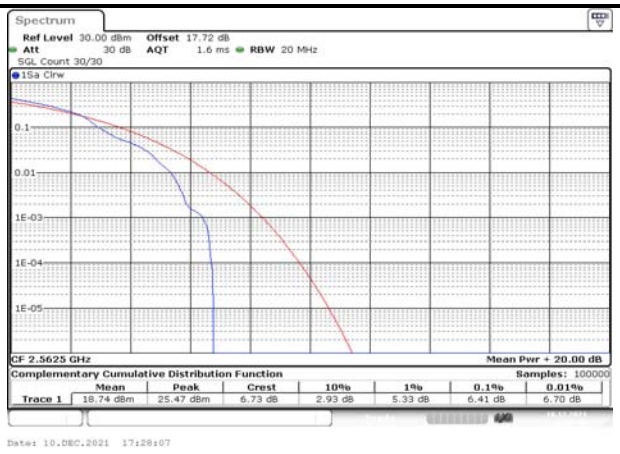

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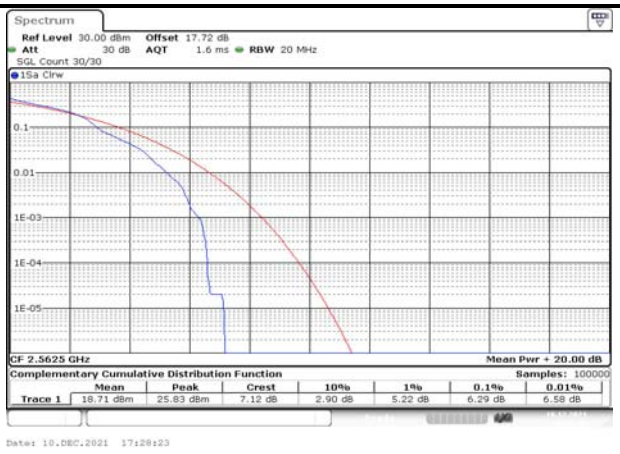

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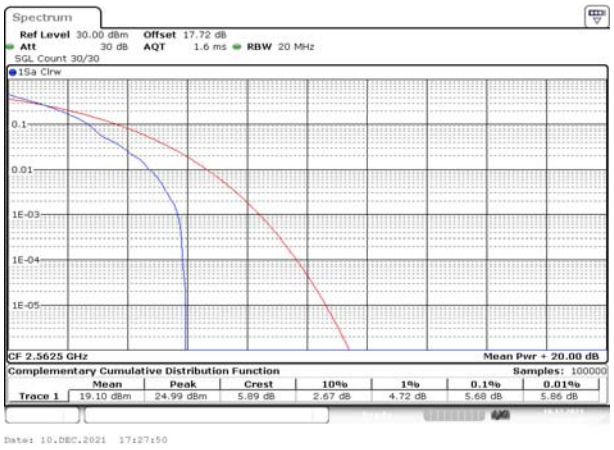

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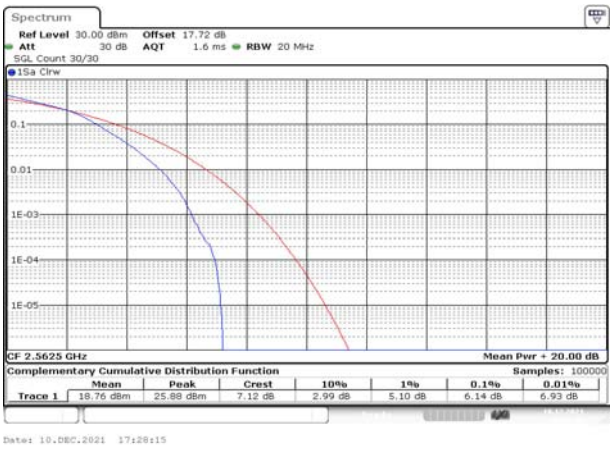

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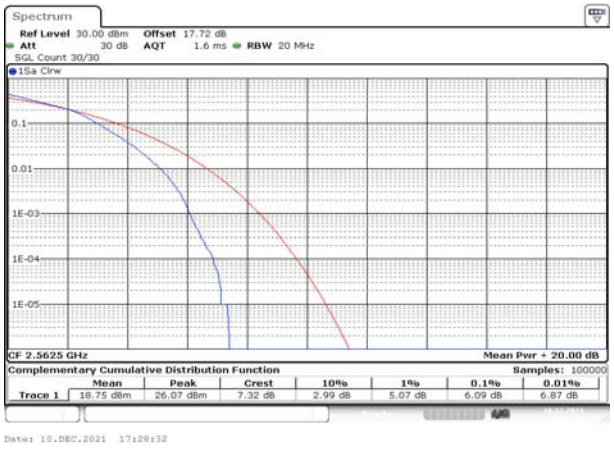

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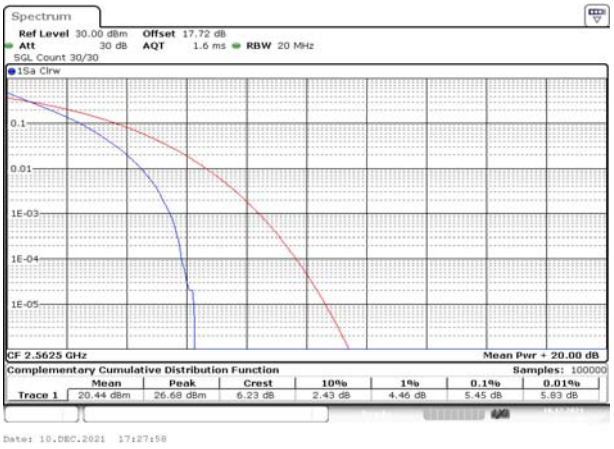

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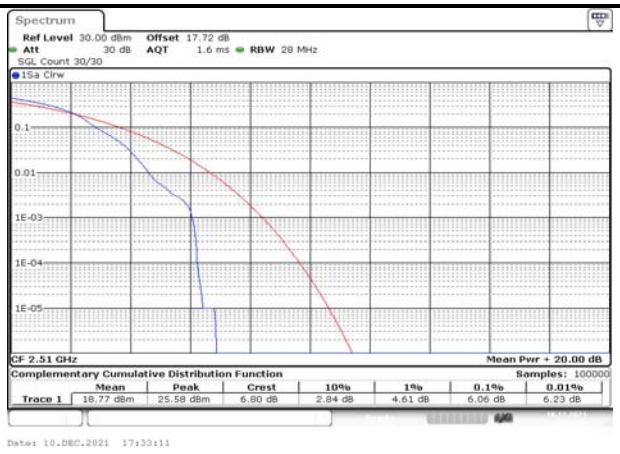

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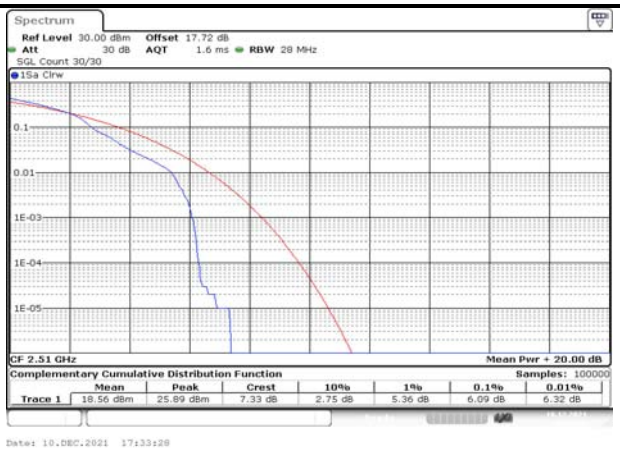

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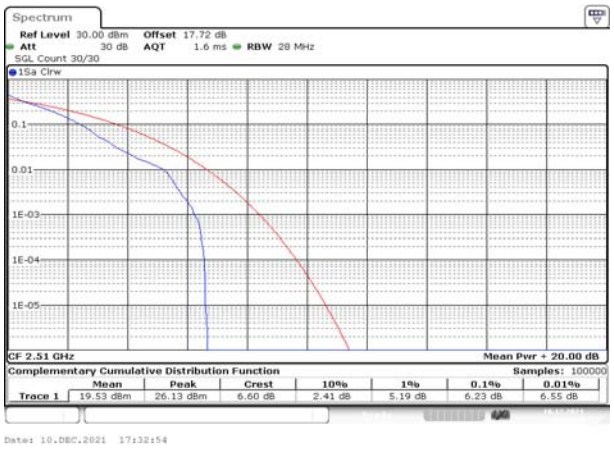

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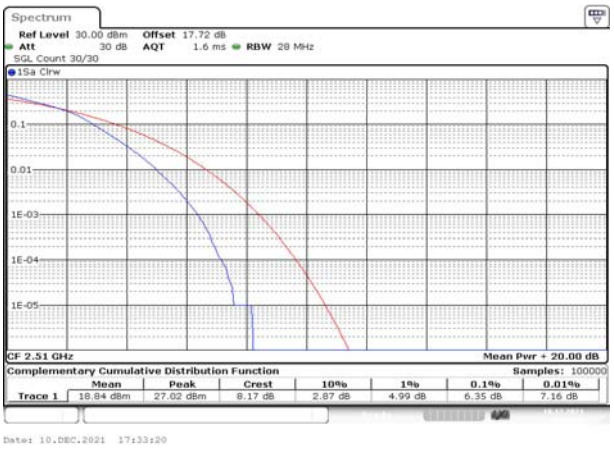

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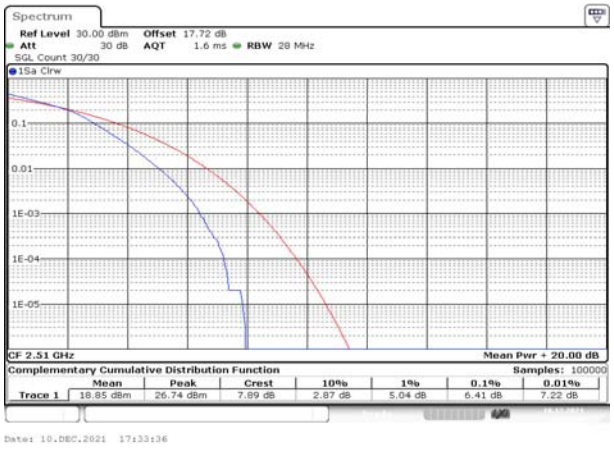

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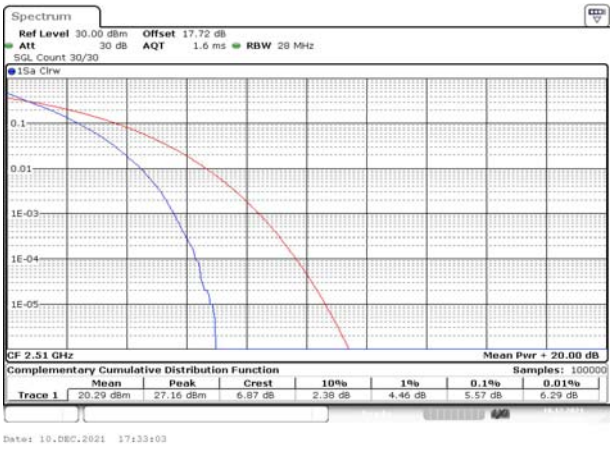

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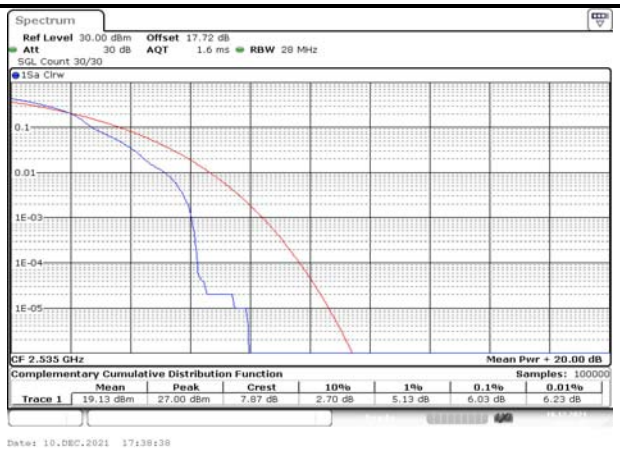

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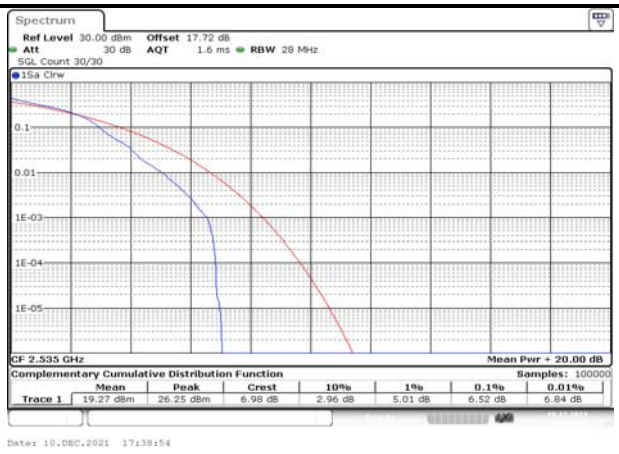

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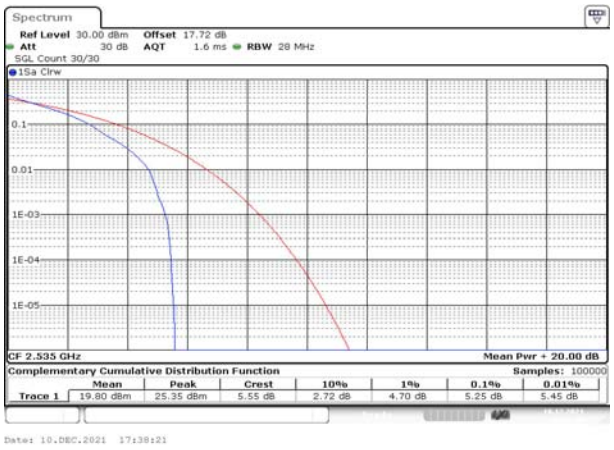

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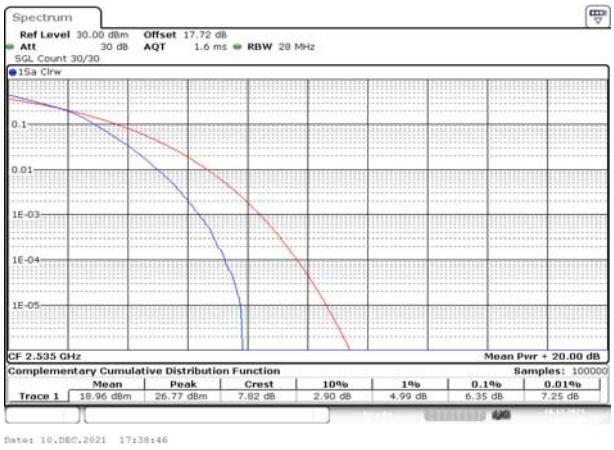

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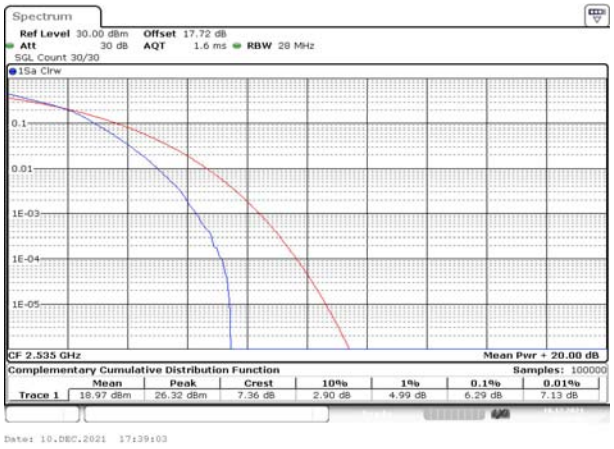

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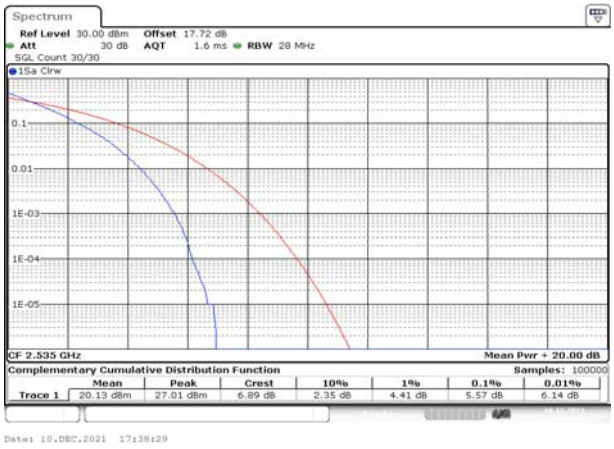
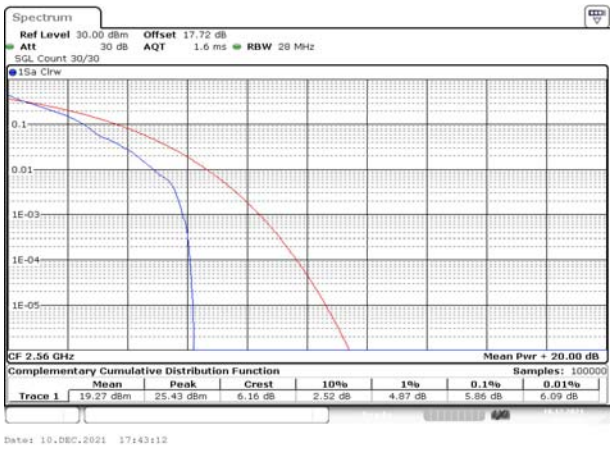


Fig.66

Fig.67

Fig.68



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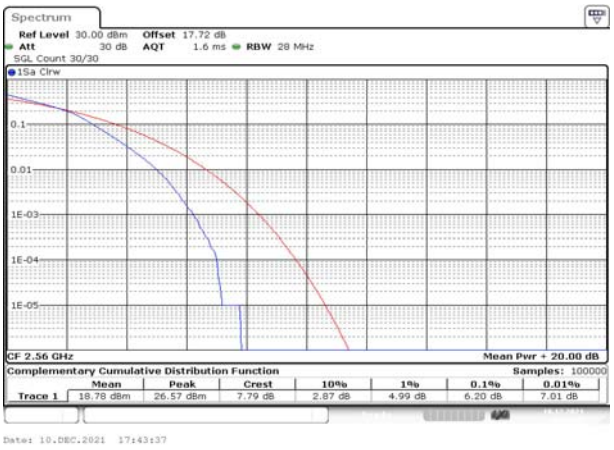

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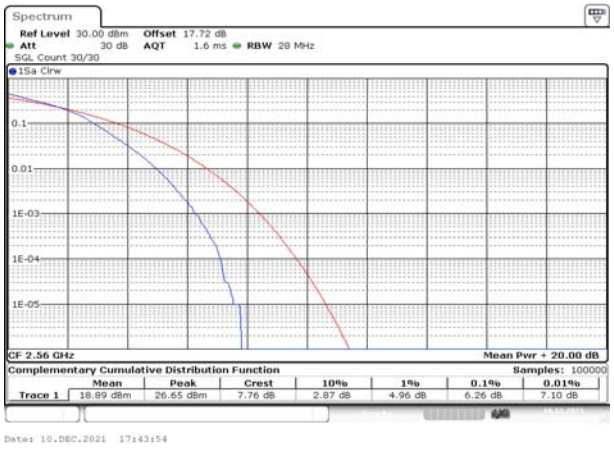

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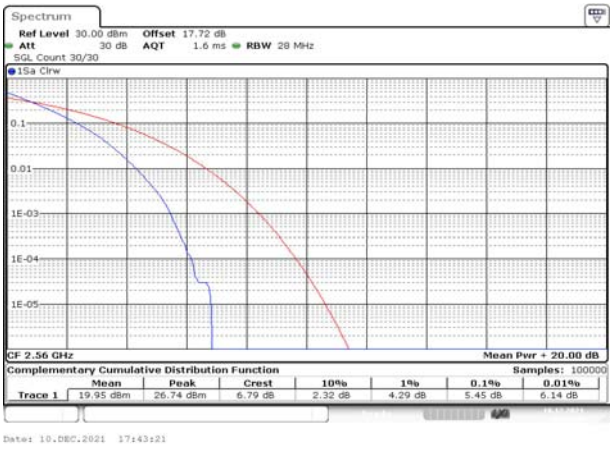


Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
7	2510	20850	20	1	0	Fig.1
7	2535	21100	20	1	0	Fig.2
7	2560	21350	20	1	0	Fig.3

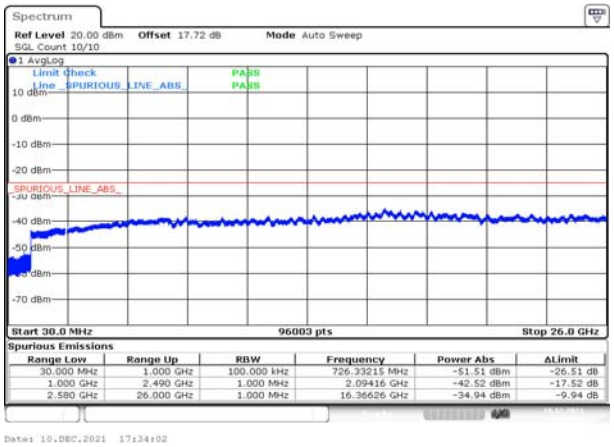


Fig.1

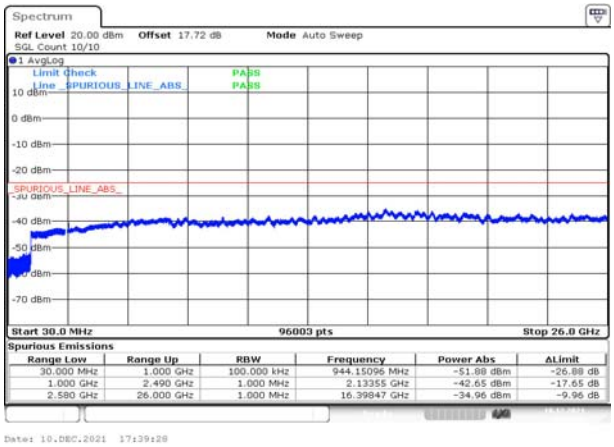


Fig.2

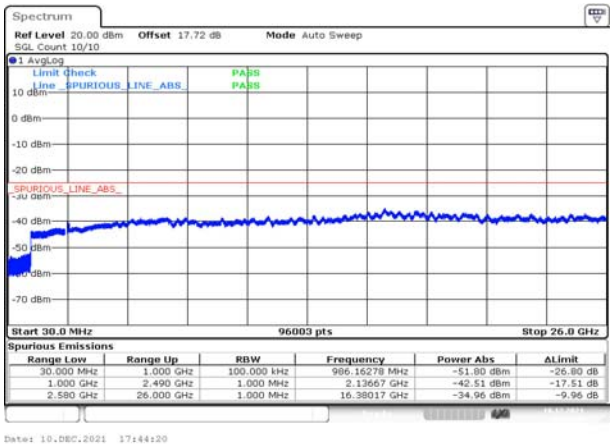


Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
7	2502.5	20775	5	1	0	Fig.1
7	2502.5	20775	5	25	0	Fig.2
7	2567.5	21425	5	1	24	Fig.3
7	2567.5	21425	5	25	0	Fig.4
7	2505	20800	10	1	0	Fig.5
7	2505	20800	10	50	0	Fig.6
7	2565	21400	10	1	49	Fig.7
7	2565	21400	10	50	0	Fig.8
7	2507.5	20825	15	1	0	Fig.9
7	2507.5	20825	15	75	0	Fig.10
7	2562.5	21375	15	1	74	Fig.11
7	2562.5	21375	15	75	0	Fig.12
7	2510	20850	20	1	0	Fig.13
7	2510	20850	20	100	0	Fig.14
7	2560	21350	20	1	99	Fig.15
7	2560	21350	20	100	0	Fig.16

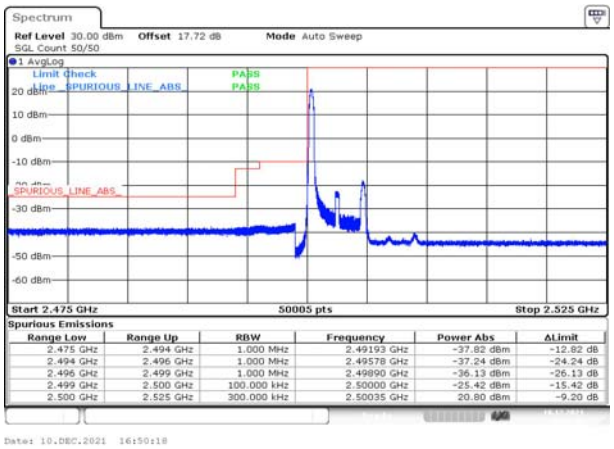


Fig.1

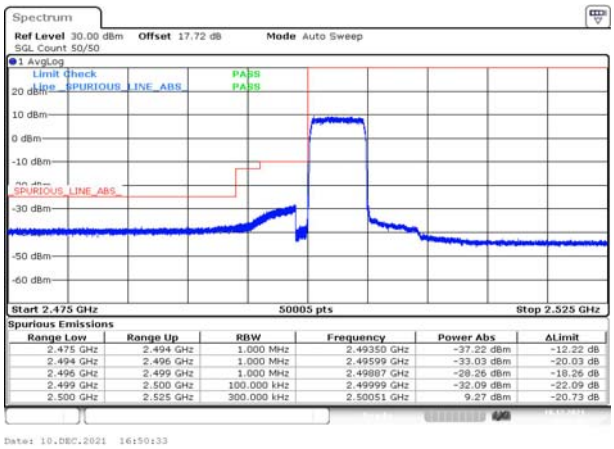
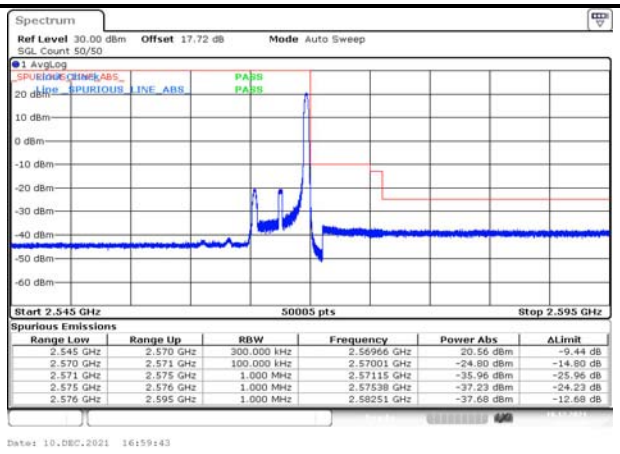


Fig.2



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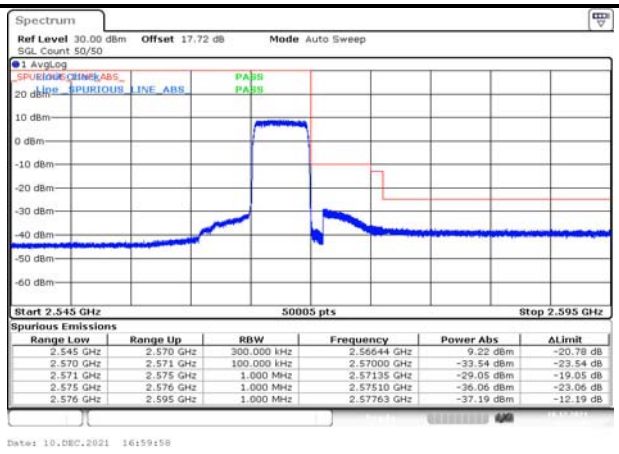

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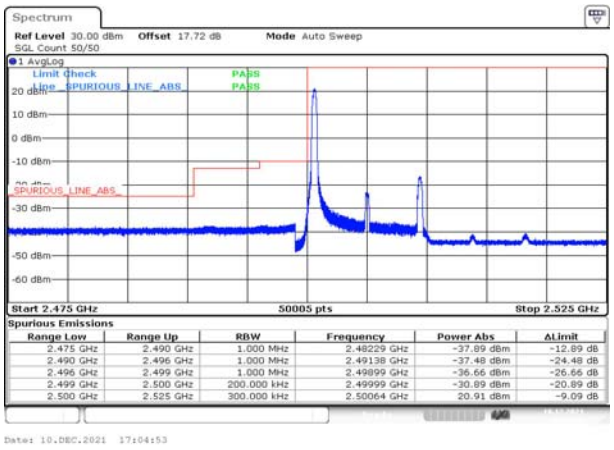

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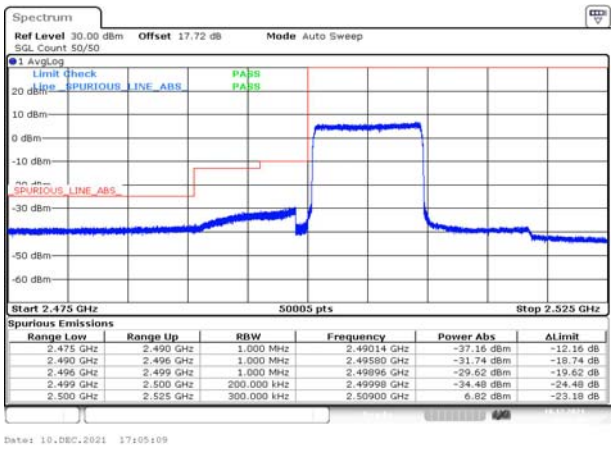

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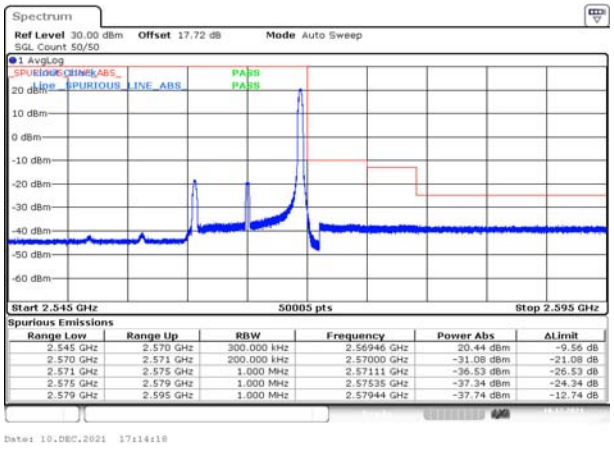

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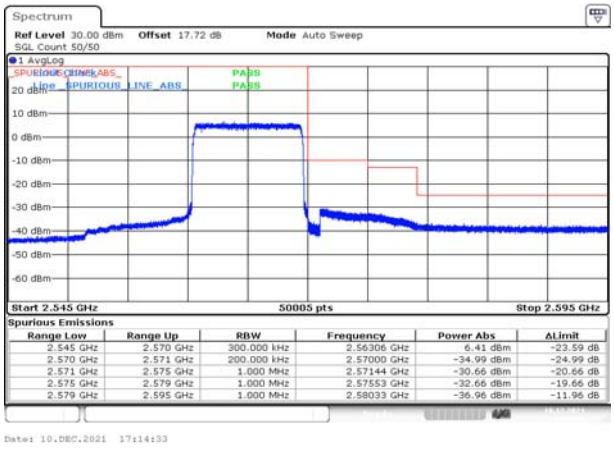

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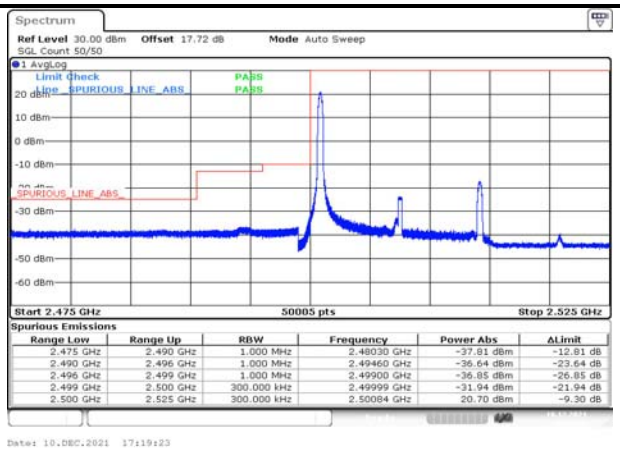

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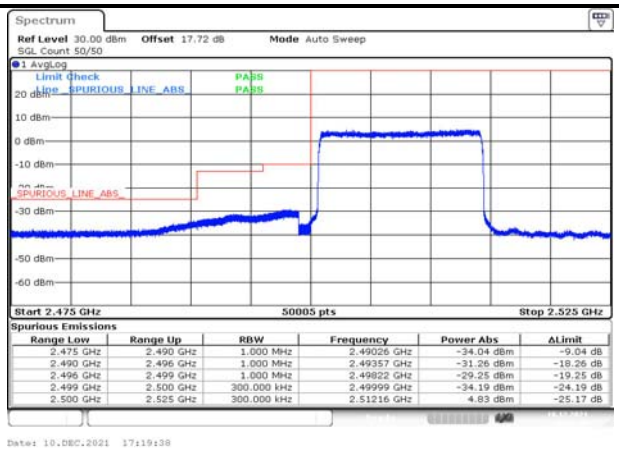

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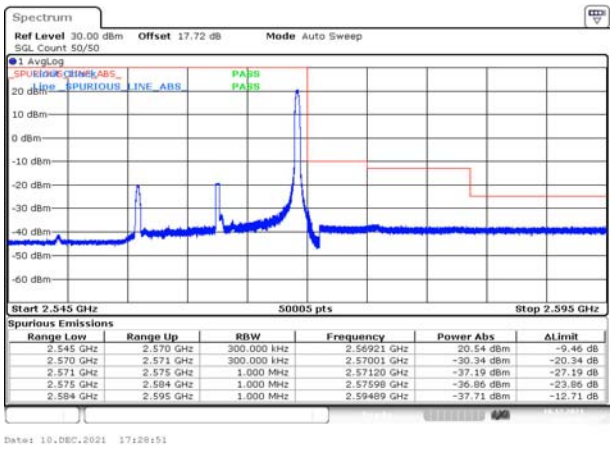

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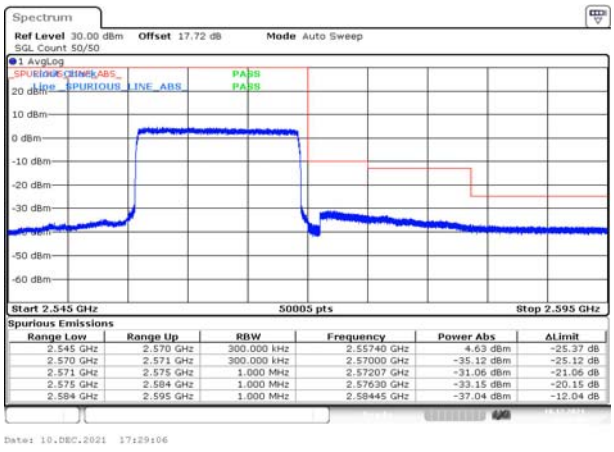

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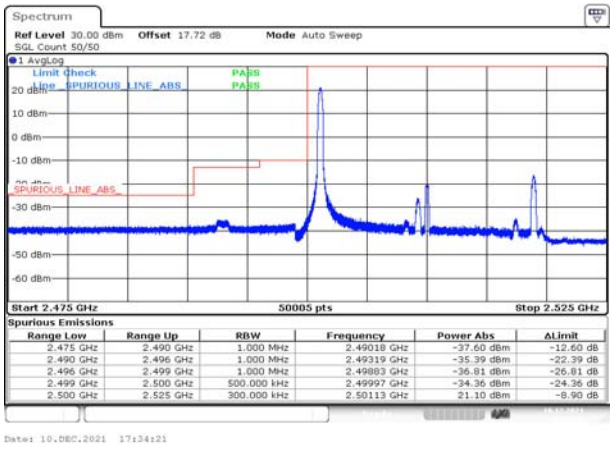


Fig.13

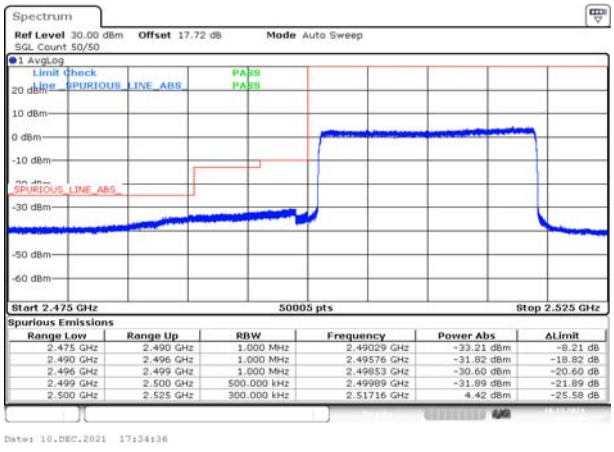
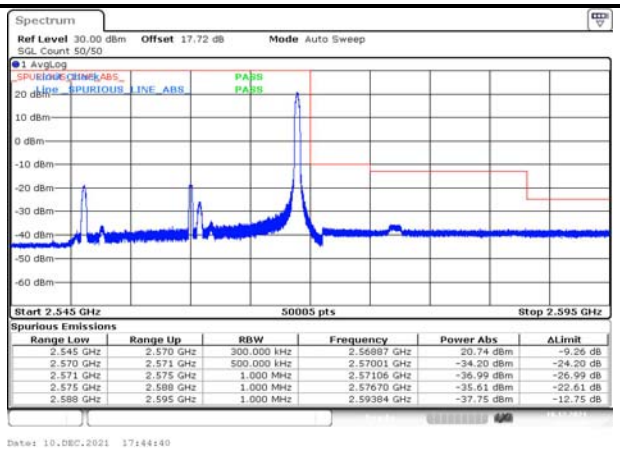


Fig.14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SGL Count 50/50
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PASS
PASS
Start 2.545 GHz 50005 pts Stop 2.595 GHz
Spurious Emissions
Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit
2.545 GHz | 2.570 GHz | 300.000 kHz | 2.56887 GHz | 20.74 dBm | -9.26 dB
2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57001 GHz | -34.20 dBm | -24.20 dB
2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57106 GHz | -36.99 dBm | -26.99 dB
2.575 GHz | 2.588 GHz | 1.000 MHz | 2.57670 GHz | -35.61 dBm | -22.61 dB
2.588 GHz | 2.595 GHz | 1.000 MHz | 2.59384 GHz | -37.75 dBm | -12.75 dB
Date: 10.DEC.2021 17:44:40

Fig.15

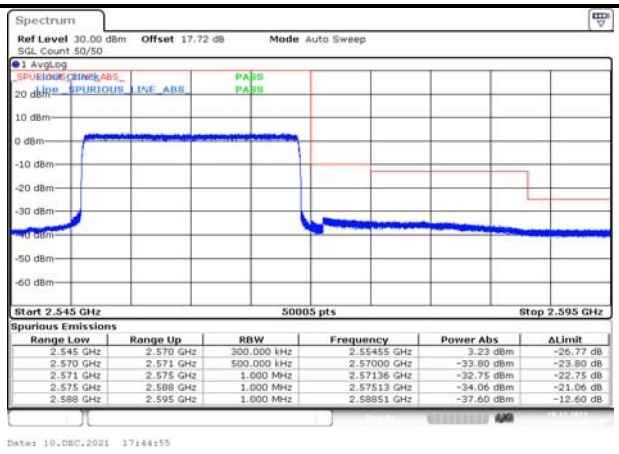
Spectrum
Ref Level 30.00 dBm Offset 17.72 dB Mode Auto Sweep
SGL Count 50/50
1 AvgLog
PASS
PASS
Start 2.545 GHz 50005 pts Stop 2.595 GHz
Spurious Emissions
Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit
2.545 GHz | 2.570 GHz | 300.000 kHz | 2.55455 GHz | 3.23 dBm | -26.77 dB
2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57000 GHz | -33.80 dBm | -23.80 dB
2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57136 GHz | -32.75 dBm | -22.75 dB
2.575 GHz | 2.588 GHz | 1.000 MHz | 2.57513 GHz | -34.06 dBm | -21.06 dB
2.588 GHz | 2.595 GHz | 1.000 MHz | 2.58851 GHz | -37.60 dBm | -12.60 dB
Date: 10.DEC.2021 17:44:55

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 7 Low Channel QPSK			
		5M	10M	15M	20M
-30	NV	-0.003	0.005	0.013	0.000
-20	NV	-0.013	0.011	0.003	0.007
-10	NV	-0.020	0.009	0.013	0.012
0	NV	-0.012	0.013	0.005	0.008
+10	NV	-0.009	0.010	0.013	0.003
+30	NV	-0.010	0.014	0.003	0.004
+40	NV	-0.007	0.008	0.013	0.001
+50	NV	-0.010	0.005	0.008	0.001
+20	LV	-0.005	0.011	0.001	0.006
+20	HV	-0.010	0.011	0.021	0.001

Temperature(°C)	Voltage	Test Result (ppm) Band 7 High Channel QPSK			
		5M	10M	15M	20M
-30	NV	-0.006	0.003	0.000	-0.011
-20	NV	-0.005	0.007	-0.010	-0.007
-10	NV	0.008	0.002	0.000	0.001
0	NV	0.007	-0.004	-0.005	0.004
+10	NV	-0.001	0.010	0.002	-0.001
+30	NV	-0.005	0.010	-0.010	-0.009
+40	NV	0.001	-0.002	-0.001	0.005
+50	NV	0.012	-0.005	-0.010	-0.002
+20	LV	0.001	-0.008	0.001	0.003
+20	HV	0.003	0.012	-0.002	-0.001

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2502.5	20775	5	1	0	19.92	19.31	0.085
16QAM	2502.5	20775	5	1	12	19.96	19.35	0.086
16QAM	2502.5	20775	5	1	24	20.03	19.42	0.087
16QAM	2502.5	20775	5	12	0	19.22	18.61	0.073
16QAM	2502.5	20775	5	12	7	19.45	18.84	0.077
16QAM	2502.5	20775	5	12	13	19.34	18.73	0.075
16QAM	2502.5	20775	5	25	0	19.61	19.00	0.079
16QAM	2535	21100	5	1	0	21.06	20.45	0.111
16QAM	2535	21100	5	1	12	20.90	20.29	0.107
16QAM	2535	21100	5	1	24	20.89	20.28	0.107
16QAM	2535	21100	5	12	0	19.38	18.77	0.075
16QAM	2535	21100	5	12	7	19.48	18.87	0.077
16QAM	2535	21100	5	12	13	19.40	18.79	0.076
16QAM	2535	21100	5	25	0	19.54	18.93	0.078
16QAM	2567.5	21425	5	1	0	20.10	19.49	0.089
16QAM	2567.5	21425	5	1	12	20.00	19.39	0.087
16QAM	2567.5	21425	5	1	24	20.11	19.50	0.089
16QAM	2567.5	21425	5	12	0	19.37	18.76	0.075
16QAM	2567.5	21425	5	12	7	19.39	18.78	0.076
16QAM	2567.5	21425	5	12	13	19.20	18.59	0.072
16QAM	2567.5	21425	5	25	0	19.55	18.94	0.078
64QAM	2502.5	20775	5	1	0	19.93	19.32	0.086
64QAM	2502.5	20775	5	1	12	19.87	19.26	0.084
64QAM	2502.5	20775	5	1	24	19.95	19.34	0.086
64QAM	2502.5	20775	5	12	0	19.49	18.88	0.077
64QAM	2502.5	20775	5	12	7	19.47	18.86	0.077
64QAM	2502.5	20775	5	12	13	19.41	18.80	0.076
64QAM	2502.5	20775	5	25	0	19.58	18.97	0.079
64QAM	2535	21100	5	1	0	20.52	19.91	0.098
64QAM	2535	21100	5	1	12	20.44	19.83	0.096
64QAM	2535	21100	5	1	24	20.52	19.91	0.098
64QAM	2535	21100	5	12	0	19.39	18.78	0.076
64QAM	2535	21100	5	12	7	19.60	18.99	0.079
64QAM	2535	21100	5	12	13	19.48	18.87	0.077
64QAM	2535	21100	5	25	0	19.42	18.81	0.076
64QAM	2567.5	21425	5	1	0	20.43	19.82	0.096
64QAM	2567.5	21425	5	1	12	20.37	19.76	0.095
64QAM	2567.5	21425	5	1	24	20.22	19.61	0.091
64QAM	2567.5	21425	5	12	0	19.45	18.84	0.077
64QAM	2567.5	21425	5	12	7	19.57	18.96	0.079
64QAM	2567.5	21425	5	12	13	19.47	18.86	0.077

64QAM	2567.5	21425	5	25	0	19.31	18.70	0.074

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2502.5	20775	5	1	0	20.87	20.26	0.106
QPSK	2502.5	20775	5	1	12	20.87	20.26	0.106
QPSK	2502.5	20775	5	1	24	21.04	20.43	0.110
QPSK	2502.5	20775	5	12	0	21.52	20.91	0.123
QPSK	2502.5	20775	5	12	7	20.86	20.25	0.106
QPSK	2502.5	20775	5	12	13	20.89	20.28	0.107
QPSK	2502.5	20775	5	25	0	21.11	20.50	0.112
QPSK	2535	21100	5	1	0	20.94	20.33	0.108
QPSK	2535	21100	5	1	12	20.78	20.17	0.104
QPSK	2535	21100	5	1	24	21.30	20.69	0.117
QPSK	2535	21100	5	12	0	21.28	20.67	0.117
QPSK	2535	21100	5	12	7	21.21	20.60	0.115
QPSK	2535	21100	5	12	13	20.99	20.38	0.109
QPSK	2535	21100	5	25	0	21.09	20.48	0.112
QPSK	2567.5	21425	5	1	0	21.03	20.42	0.110
QPSK	2567.5	21425	5	1	12	21.15	20.54	0.113
QPSK	2567.5	21425	5	1	24	21.15	20.54	0.113
QPSK	2567.5	21425	5	12	0	20.89	20.28	0.107
QPSK	2567.5	21425	5	12	7	20.86	20.25	0.106
QPSK	2567.5	21425	5	12	13	20.82	20.21	0.105
QPSK	2567.5	21425	5	25	0	20.84	20.23	0.105

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2505	20800	10	1	0	20.42	19.81	0.096
16QAM	2505	20800	10	1	25	20.44	19.83	0.096
16QAM	2505	20800	10	1	49	20.33	19.72	0.094
16QAM	2505	20800	10	25	0	19.50	18.89	0.077
16QAM	2505	20800	10	25	12	19.57	18.96	0.079
16QAM	2505	20800	10	25	25	19.44	18.83	0.076
16QAM	2505	20800	10	50	0	19.69	19.08	0.081
16QAM	2535	21100	10	1	0	20.79	20.18	0.104
16QAM	2535	21100	10	1	25	20.93	20.32	0.108
16QAM	2535	21100	10	1	49	20.82	20.21	0.105
16QAM	2535	21100	10	25	0	19.51	18.90	0.078
16QAM	2535	21100	10	25	12	19.49	18.88	0.077
16QAM	2535	21100	10	25	25	19.49	18.88	0.077
16QAM	2535	21100	10	50	0	19.65	19.04	0.080
16QAM	2565	21400	10	1	0	20.72	20.11	0.103
16QAM	2565	21400	10	1	25	20.65	20.04	0.101
16QAM	2565	21400	10	1	49	20.54	19.93	0.098
16QAM	2565	21400	10	25	0	19.58	18.97	0.079
16QAM	2565	21400	10	25	12	19.62	19.01	0.080
16QAM	2565	21400	10	25	25	19.59	18.98	0.079
16QAM	2565	21400	10	50	0	19.55	18.94	0.078
64QAM	2505	20800	10	1	0	20.64	20.03	0.101
64QAM	2505	20800	10	1	25	20.51	19.90	0.098
64QAM	2505	20800	10	1	49	20.60	19.99	0.100
64QAM	2505	20800	10	25	0	19.55	18.94	0.078
64QAM	2505	20800	10	25	12	19.70	19.09	0.081
64QAM	2505	20800	10	25	25	19.57	18.96	0.079
64QAM	2505	20800	10	50	0	19.83	19.22	0.084
64QAM	2535	21100	10	1	0	20.57	19.96	0.099
64QAM	2535	21100	10	1	25	20.59	19.98	0.100
64QAM	2535	21100	10	1	49	20.52	19.91	0.098
64QAM	2535	21100	10	25	0	19.52	18.91	0.078
64QAM	2535	21100	10	25	12	19.50	18.89	0.077
64QAM	2535	21100	10	25	25	19.54	18.93	0.078
64QAM	2535	21100	10	50	0	19.66	19.05	0.080
64QAM	2565	21400	10	1	0	19.99	19.38	0.087
64QAM	2565	21400	10	1	25	19.95	19.34	0.086
64QAM	2565	21400	10	1	49	19.87	19.26	0.084
64QAM	2565	21400	10	25	0	19.61	19.00	0.079
64QAM	2565	21400	10	25	12	19.64	19.03	0.080
64QAM	2565	21400	10	25	25	19.63	19.02	0.080

64QAM	2565	21400	10	50	0	19.55	18.94	0.078

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2505	20800	10	1	0	21.07	20.46	0.111
QPSK	2505	20800	10	1	25	21.15	20.54	0.113
QPSK	2505	20800	10	1	49	21.04	20.43	0.110
QPSK	2505	20800	10	25	0	20.69	20.08	0.102
QPSK	2505	20800	10	25	12	20.83	20.22	0.105
QPSK	2505	20800	10	25	25	20.97	20.36	0.109
QPSK	2505	20800	10	50	0	21.02	20.41	0.110
QPSK	2535	21100	10	1	0	20.84	20.23	0.105
QPSK	2535	21100	10	1	25	21.13	20.52	0.113
QPSK	2535	21100	10	1	49	21.14	20.53	0.113
QPSK	2535	21100	10	25	0	21.06	20.45	0.111
QPSK	2535	21100	10	25	12	20.78	20.17	0.104
QPSK	2535	21100	10	25	25	20.57	19.96	0.099
QPSK	2535	21100	10	50	0	20.85	20.24	0.106
QPSK	2565	21400	10	1	0	20.98	20.37	0.109
QPSK	2565	21400	10	1	25	20.45	19.84	0.096
QPSK	2565	21400	10	1	49	20.77	20.16	0.104
QPSK	2565	21400	10	25	0	21.01	20.40	0.110
QPSK	2565	21400	10	25	12	21.16	20.55	0.114
QPSK	2565	21400	10	25	25	20.77	20.16	0.104
QPSK	2565	21400	10	50	0	21.18	20.57	0.114

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2507.5	20825	15	1	0	20.51	19.90	0.098
16QAM	2507.5	20825	15	1	37	20.36	19.75	0.094
16QAM	2507.5	20825	15	1	74	20.37	19.76	0.095
16QAM	2507.5	20825	15	36	0	19.79	19.18	0.083
16QAM	2507.5	20825	15	36	29	19.56	18.95	0.079
16QAM	2507.5	20825	15	36	30	19.58	18.97	0.079
16QAM	2507.5	20825	15	75	0	19.56	18.95	0.079
16QAM	2535	21100	15	1	0	20.77	20.16	0.104
16QAM	2535	21100	15	1	37	20.86	20.25	0.106
16QAM	2535	21100	15	1	74	20.57	19.96	0.099
16QAM	2535	21100	15	36	0	19.49	18.88	0.077
16QAM	2535	21100	15	36	29	19.61	19.00	0.079
16QAM	2535	21100	15	36	30	19.41	18.80	0.076
16QAM	2535	21100	15	75	0	19.62	19.01	0.080
16QAM	2562.5	21375	15	1	0	20.73	20.12	0.103
16QAM	2562.5	21375	15	1	37	20.72	20.11	0.103
16QAM	2562.5	21375	15	1	74	20.58	19.97	0.099
16QAM	2562.5	21375	15	36	0	19.38	18.77	0.075
16QAM	2562.5	21375	15	36	29	19.48	18.87	0.077
16QAM	2562.5	21375	15	36	30	19.49	18.88	0.077
16QAM	2562.5	21375	15	75	0	19.48	18.87	0.077
64QAM	2507.5	20825	15	1	0	20.71	20.10	0.102
64QAM	2507.5	20825	15	1	37	20.63	20.02	0.100
64QAM	2507.5	20825	15	1	74	20.64	20.03	0.101
64QAM	2507.5	20825	15	36	0	19.74	19.13	0.082
64QAM	2507.5	20825	15	36	29	19.65	19.04	0.080
64QAM	2507.5	20825	15	36	30	19.55	18.94	0.078
64QAM	2507.5	20825	15	75	0	19.52	18.91	0.078
64QAM	2535	21100	15	1	0	20.63	20.02	0.100
64QAM	2535	21100	15	1	37	20.84	20.23	0.105
64QAM	2535	21100	15	1	74	20.68	20.07	0.102
64QAM	2535	21100	15	36	0	19.53	18.92	0.078
64QAM	2535	21100	15	36	29	19.38	18.77	0.075
64QAM	2535	21100	15	36	30	19.39	18.78	0.076
64QAM	2535	21100	15	75	0	19.61	19.00	0.079
64QAM	2562.5	21375	15	1	0	20.81	20.20	0.105
64QAM	2562.5	21375	15	1	37	20.84	20.23	0.105
64QAM	2562.5	21375	15	1	74	20.81	20.20	0.105
64QAM	2562.5	21375	15	36	0	19.48	18.87	0.077
64QAM	2562.5	21375	15	36	29	19.57	18.96	0.079
64QAM	2562.5	21375	15	36	30	19.57	18.96	0.079

64QAM	2562.5	21375	15	75	0	19.62	19.01	0.080

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2507.5	20825	15	1	0	21.10	20.49	0.112
QPSK	2507.5	20825	15	1	37	20.97	20.36	0.109
QPSK	2507.5	20825	15	1	74	20.99	20.38	0.109
QPSK	2507.5	20825	15	36	0	20.77	20.16	0.104
QPSK	2507.5	20825	15	36	29	20.63	20.02	0.100
QPSK	2507.5	20825	15	36	30	21.16	20.55	0.114
QPSK	2507.5	20825	15	75	0	20.47	19.86	0.097
QPSK	2535	21100	15	1	0	20.87	20.26	0.106
QPSK	2535	21100	15	1	37	21.06	20.45	0.111
QPSK	2535	21100	15	1	74	21.29	20.68	0.117
QPSK	2535	21100	15	36	0	20.64	20.03	0.101
QPSK	2535	21100	15	36	29	20.89	20.28	0.107
QPSK	2535	21100	15	36	30	20.88	20.27	0.106
QPSK	2535	21100	15	75	0	21.09	20.48	0.112
QPSK	2562.5	21375	15	1	0	20.90	20.29	0.107
QPSK	2562.5	21375	15	1	37	20.91	20.30	0.107
QPSK	2562.5	21375	15	1	74	20.58	19.97	0.099
QPSK	2562.5	21375	15	36	0	21.01	20.40	0.110
QPSK	2562.5	21375	15	36	29	21.05	20.44	0.111
QPSK	2562.5	21375	15	36	30	20.64	20.03	0.101
QPSK	2562.5	21375	15	75	0	20.92	20.31	0.107

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2510	20850	20	1	0	20.91	20.30	0.107
16QAM	2510	20850	20	1	49	20.77	20.16	0.104
16QAM	2510	20850	20	1	99	20.89	20.28	0.107
16QAM	2510	20850	20	50	0	19.95	19.34	0.086
16QAM	2510	20850	20	50	24	19.71	19.10	0.081
16QAM	2510	20850	20	50	50	19.50	18.89	0.077
16QAM	2510	20850	20	100	0	19.43	18.82	0.076
16QAM	2535	21100	20	1	0	20.78	20.17	0.104
16QAM	2535	21100	20	1	49	20.81	20.20	0.105
16QAM	2535	21100	20	1	99	20.90	20.29	0.107
16QAM	2535	21100	20	50	0	19.49	18.88	0.077
16QAM	2535	21100	20	50	24	19.68	19.07	0.081
16QAM	2535	21100	20	50	50	19.44	18.83	0.076
16QAM	2535	21100	20	100	0	19.51	18.90	0.078
16QAM	2560	21350	20	1	0	20.77	20.16	0.104
16QAM	2560	21350	20	1	49	20.70	20.09	0.102
16QAM	2560	21350	20	1	99	20.72	20.11	0.103
16QAM	2560	21350	20	50	0	19.55	18.94	0.078
16QAM	2560	21350	20	50	24	19.47	18.86	0.077
16QAM	2560	21350	20	50	50	19.56	18.95	0.079
16QAM	2560	21350	20	100	0	19.57	18.96	0.079
64QAM	2510	20850	20	1	0	20.43	19.82	0.096
64QAM	2510	20850	20	1	49	20.32	19.71	0.094
64QAM	2510	20850	20	1	99	20.35	19.74	0.094
64QAM	2510	20850	20	50	0	19.71	19.10	0.081
64QAM	2510	20850	20	50	24	19.56	18.95	0.079
64QAM	2510	20850	20	50	50	19.60	18.99	0.079
64QAM	2510	20850	20	100	0	19.52	18.91	0.078
64QAM	2535	21100	20	1	0	20.75	20.14	0.103
64QAM	2535	21100	20	1	49	20.85	20.24	0.106
64QAM	2535	21100	20	1	99	20.81	20.20	0.105
64QAM	2535	21100	20	50	0	19.40	18.79	0.076
64QAM	2535	21100	20	50	24	19.52	18.91	0.078
64QAM	2535	21100	20	50	50	19.43	18.82	0.076
64QAM	2535	21100	20	100	0	19.52	18.91	0.078
64QAM	2560	21350	20	1	0	21.22	20.61	0.115
64QAM	2560	21350	20	1	49	21.11	20.50	0.112
64QAM	2560	21350	20	1	99	21.06	20.45	0.111
64QAM	2560	21350	20	50	0	19.56	18.95	0.079
64QAM	2560	21350	20	50	24	19.48	18.87	0.077
64QAM	2560	21350	20	50	50	19.57	18.96	0.079

64QAM	2560	21350	20	100	0	19.45	18.84	0.077

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2510	20850	20	1	0	21.01	20.40	0.110
QPSK	2510	20850	20	1	49	20.92	20.31	0.107
QPSK	2510	20850	20	1	99	20.87	20.26	0.106
QPSK	2510	20850	20	50	0	20.73	20.12	0.103
QPSK	2510	20850	20	50	24	21.22	20.61	0.115
QPSK	2510	20850	20	50	50	21.23	20.62	0.115
QPSK	2510	20850	20	100	0	21.02	20.41	0.110
QPSK	2535	21100	20	1	0	21.06	20.45	0.111
QPSK	2535	21100	20	1	49	21.06	20.45	0.111
QPSK	2535	21100	20	1	99	21.27	20.66	0.116
QPSK	2535	21100	20	50	0	20.90	20.29	0.107
QPSK	2535	21100	20	50	24	21.33	20.72	0.118
QPSK	2535	21100	20	50	50	21.08	20.47	0.111
QPSK	2535	21100	20	100	0	20.68	20.07	0.102
QPSK	2560	21350	20	1	0	21.17	20.56	0.114
QPSK	2560	21350	20	1	49	20.86	20.25	0.106
QPSK	2560	21350	20	1	99	20.72	20.11	0.103
QPSK	2560	21350	20	50	0	20.91	20.30	0.107
QPSK	2560	21350	20	50	24	21.26	20.65	0.116
QPSK	2560	21350	20	50	50	20.97	20.36	0.109
QPSK	2560	21350	20	100	0	20.79	20.18	0.104