

**APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

**LTE Band 7**

**RF Power Output**

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2502.5	20775	5	1	0	22.28
				1	12	22.31
				1	24	22.38
				12	0	21.23
				12	7	21.28
				12	13	21.24
	2535	21100		25	0	21.72
				1	0	22.72
				1	12	22.77
				1	24	22.92
				12	0	22.04
				12	7	22.11
	2567.5	21425		12	13	22.13
				25	0	21.97
				1	0	23.15
				1	12	23.30
				1	24	22.84
				12	0	22.29
16QAM	2502.5	20775	12	7	22.19	
			12	13	22.23	
			25	0	22.29	
			1	0	21.56	
			1	12	21.74	
			1	24	21.71	
	2535	21100	12	0	20.63	
			12	7	20.57	
			12	13	20.67	
			25	0	21.06	
			1	0	21.99	
			1	12	22.17	
	2567.5	21425	1	24	22.19	
			12	0	21.29	
			12	7	21.43	
			12	13	21.45	
			25	0	21.20	
			1	0	22.47	
64QAM	2502.5	20775	1	12	22.74	
			1	24	22.20	
			12	0	21.53	
			12	7	21.48	
			12	13	21.54	
			25	0	21.62	
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2502.5	20775	5	1	0	21.61
				1	12	21.60
				1	24	21.57
				12	0	20.57
				12	7	20.57
				12	13	20.55

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)		
	2535	21100	10	25	0	20.97		
				1	0	21.93		
				1	12	22.03		
				1	24	22.13		
				12	0	21.19		
				12	7	21.35		
	12	13		21.35				
	25	0		21.16				
	1	0		22.36				
	1	12		22.65				
	1	24		22.28				
	12	0		21.46				
	12	7		21.41				
	12	13		21.57				
	25	0		21.70				
	2567.5	21425						
	Modulation	Carrier frequency (MHz)		UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	QPSK	2505		20800	10	1	0	22.17
1			25			22.34		
1			49			22.37		
25			0			21.29		
25			12			21.23		
25			25			21.22		
50		0	21.79					
1		0	22.71					
1		25	22.85					
1		49	22.78					
25		0	21.97					
25		12	22.09					
25		25	22.16					
50		0	21.88					
2565		21400						
16QAM		2505	20800	10		1	0	23.23
						1	25	23.34
						1	49	22.99
	25				0	22.33		
	25				12	22.26		
	25				25	22.27		
	50	0	22.35					
	1	0	21.62					
	1	25	21.76					
	1	49	21.75					
	25	0	20.67					
	25	12	20.66					
	25	25	20.64					
	50	0	21.12					
	2535	21100						
	2565	21400	10		10	1	0	22.01
						1	25	22.12
						1	49	22.25
25				0		21.30		
25				12		21.33		
25				25		21.48		
50	0	21.28						
1	0	22.57						
1	25	22.66						
1	49	22.29						
25	0	21.66						

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				25	12	21.48
				25	25	21.53
				50	0	21.69
64QAM	2505	20800	10	1	0	21.48
				1	25	21.52
				1	49	21.64
				25	0	20.59
				25	12	20.52
				25	25	20.58
				50	0	20.95
	2535	21100		1	0	21.90
				1	25	22.07
				1	49	22.24
				25	0	21.25
				25	12	21.33
				25	25	21.30
				50	0	21.17
	2565	21400		1	0	22.46
				1	25	22.54
				1	49	22.22
				25	0	21.49
			25	12	21.45	
			25	25	21.48	
			50	0	21.59	
QPSK	2507.5	20825	15	1	0	22.18
				1	37	22.41
				1	74	22.34
				36	0	21.25
				36	29	21.19
				36	30	21.22
				75	0	21.68
	2535	21100		1	0	22.74
				1	37	22.82
				1	74	22.78
				36	0	21.96
				36	29	21.98
				36	30	22.06
				75	0	21.91
	2562.5	21375		1	0	23.15
				1	37	23.36
				1	74	22.89
				36	0	22.26
			36	29	22.23	
			36	30	22.26	
			75	0	22.28	
16QAM	2507.5	20825	1	0	21.51	
			1	37	21.70	
			1	74	21.75	
			36	0	20.65	
			36	29	20.56	
			36	30	20.56	

	2535	21100		75	0	21.00
				1	0	22.07
				1	37	22.10
				1	74	22.12
				36	0	21.32
				36	29	21.32
				36	30	21.37
	75	0		21.33		
	1	0		22.48		
	1	37		22.62		
	1	74		22.29		
	36	0		21.67		
	36	29		21.61		
	36	30		21.55		
75	0	21.67				
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2507.5	20825	15	1	0	21.59
				1	37	21.49
				1	74	21.64
				36	0	20.59
				36	29	20.61
				36	30	20.53
	75	0		21.01		
	1	0		21.97		
	1	37		22.05		
	1	74		22.12		
	36	0		21.26		
	36	29		21.38		
	36	30		21.32		
	75	0		21.08		
	1	0		22.37		
	1	37		22.59		
	1	74		22.26		
	36	0		21.50		
36	29	21.48				
36	30	21.56				
75	0	21.58				
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2510	20850	20	1	0	22.32
				1	49	22.42
				1	99	22.43
				50	0	21.35
				50	24	21.32
				50	50	21.34
	100	0		21.80		
	1	0		22.78		
	1	49		22.91		
	1	99		22.93		
	50	0		22.09		
	50	24		22.12		
	50	50		22.17		
	100	0		21.99		
	2560	21350		1	0	23.28

				1	49	23.43
				1	99	22.99
				50	0	22.33
				50	24	22.27
				50	50	22.31
				100	0	22.41
				1	0	21.66
				1	49	21.76
				1	99	21.77
	2510	20850		50	0	20.69
	2510	20850		50	24	20.66
	2510	20850		50	50	20.68
	2510	20850		100	0	21.14
	2535	21100		1	0	22.12
	2535	21100		1	49	22.25
	2535	21100		1	99	22.27
	2535	21100		50	0	21.43
	2535	21100		50	24	21.46
	2535	21100		50	50	21.51
	2535	21100		100	0	21.33
	2560	21350		1	0	22.62
	2560	21350		1	49	22.77
	2560	21350		1	99	22.33
	2560	21350		50	0	21.67
	2560	21350		50	24	21.61
	2560	21350		50	50	21.65
	2560	21350		100	0	21.75
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2510	20850	20	1	0	21.61
				1	49	21.61
				1	99	21.71
				50	0	20.65
				50	24	20.61
				50	50	20.59
	100	0		21.05		
	1	0		22.03		
	1	49		22.13		
	1	99		22.24		
	50	0		21.32		
	50	24		21.40		
	50	50		21.38		
	100	0		21.20		
	1	0		22.50		
	1	49		22.66		
	1	99		22.29		
	50	0		21.56		
50	24	21.50				
50	50	21.60				
100	0	21.71				

**Occupied Bandwidth**  
Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2502.5	20775	5	25	0	4.515	Fig.1	4.493	Fig.2	4.515	Fig.3
	2535	21100		25	0	4.515	Fig.4	4.493	Fig.5	4.515	Fig.6
	2567.5	21425		25	0	4.493	Fig.7	4.515	Fig.8	4.515	Fig.9
	2505	20800	10	50	0	9.030	Fig.10	9.030	Fig.11	9.030	Fig.12
	2535	21100		50	0	9.030	Fig.13	9.074	Fig.14	9.030	Fig.15
	2565	21400		50	0	9.117	Fig.16	9.030	Fig.17	9.074	Fig.18
	2507.5	20825	15	75	0	13.480	Fig.19	13.480	Fig.20	13.415	Fig.21
	2535	21100		75	0	13.415	Fig.22	13.415	Fig.23	13.480	Fig.24
	2562.5	21375		75	0	13.480	Fig.25	13.480	Fig.26	13.480	Fig.27
	2510	20850	20	100	0	17.887	Fig.28	17.887	Fig.29	17.887	Fig.30
	2535	21100		100	0	17.887	Fig.31	17.887	Fig.32	17.887	Fig.33
	2560	21350		100	0	17.887	Fig.34	17.887	Fig.35	17.887	Fig.36

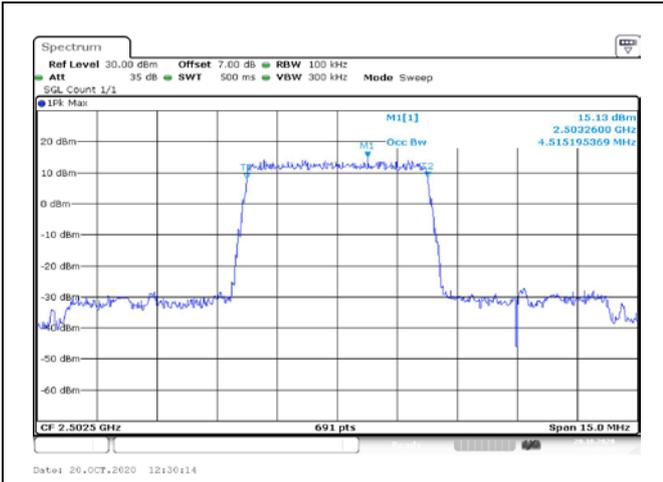


Fig.1

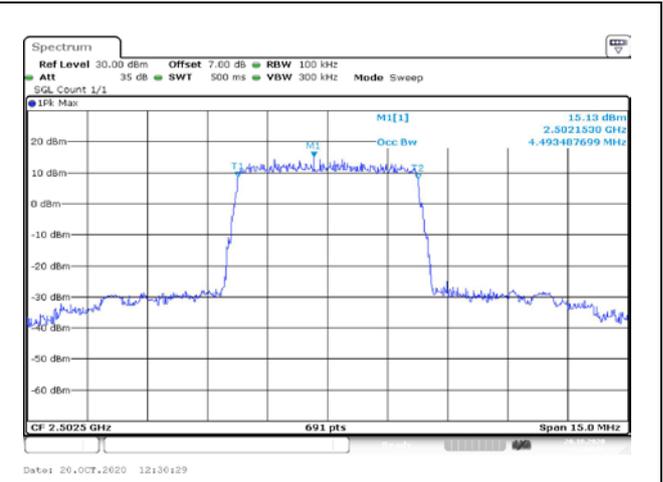


Fig.2

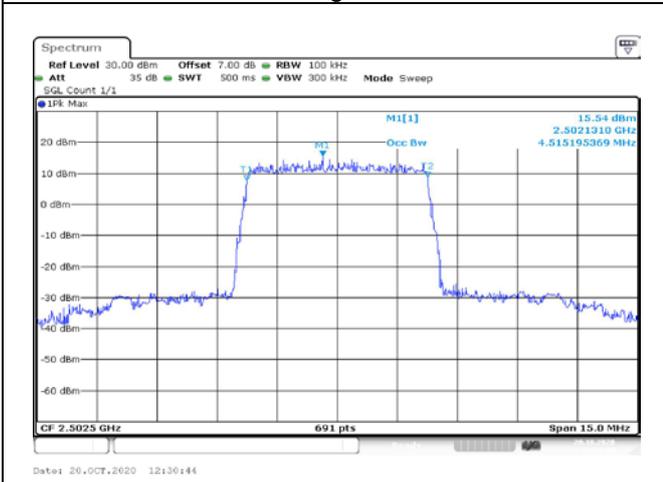


Fig.3

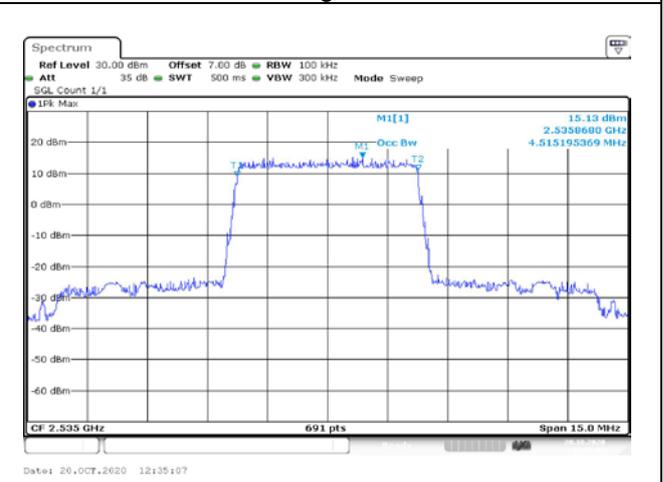


Fig.4

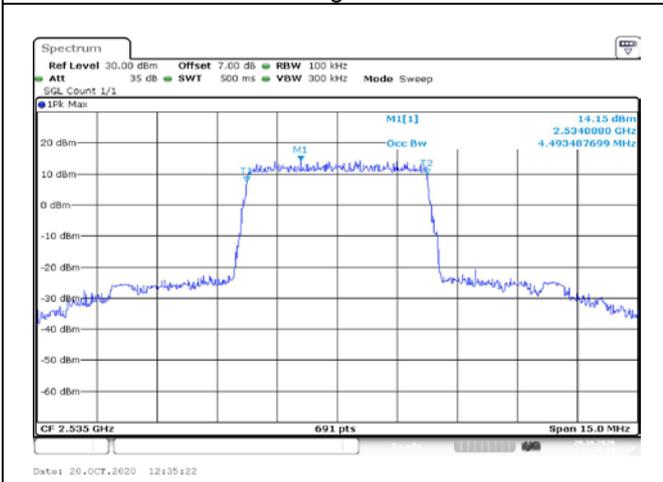


Fig.5

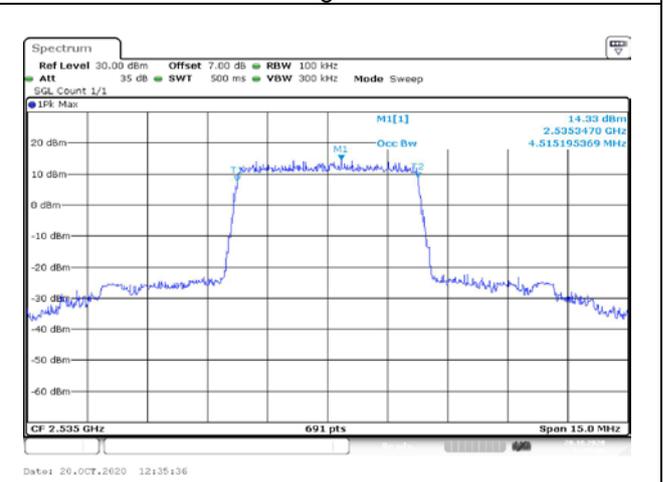


Fig.6

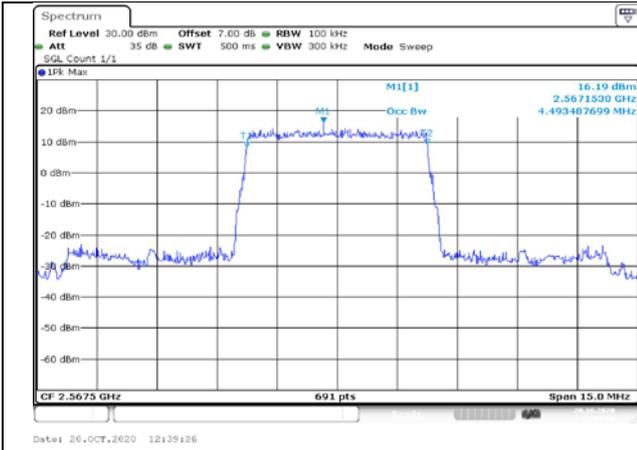


Fig.7

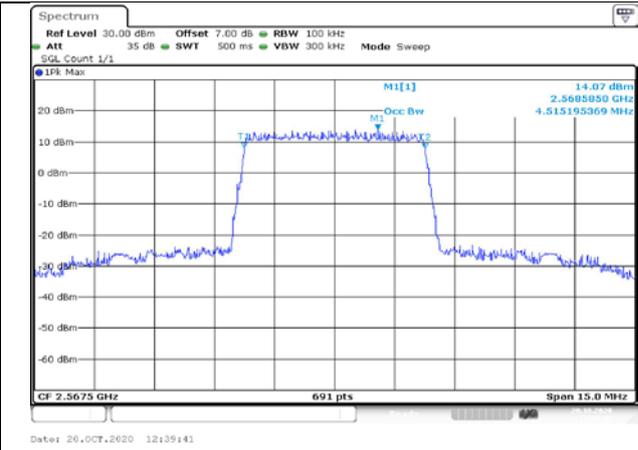


Fig.8

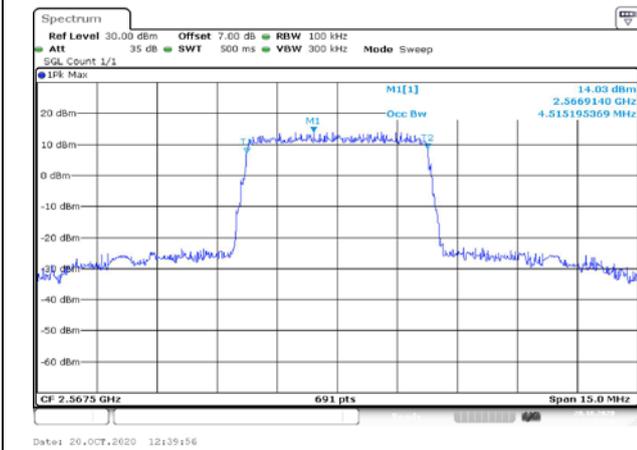


Fig.9

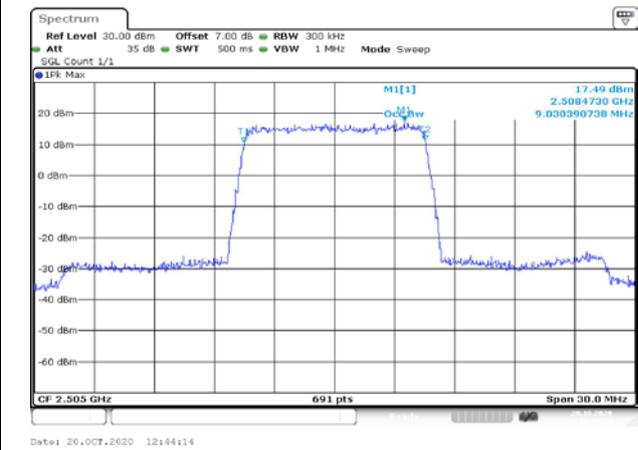


Fig.10

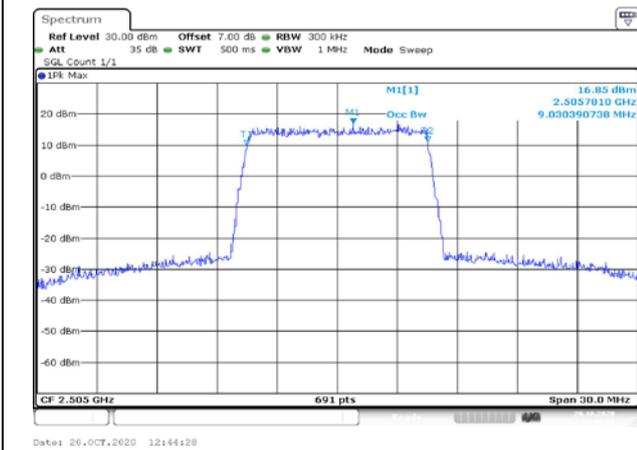


Fig.11

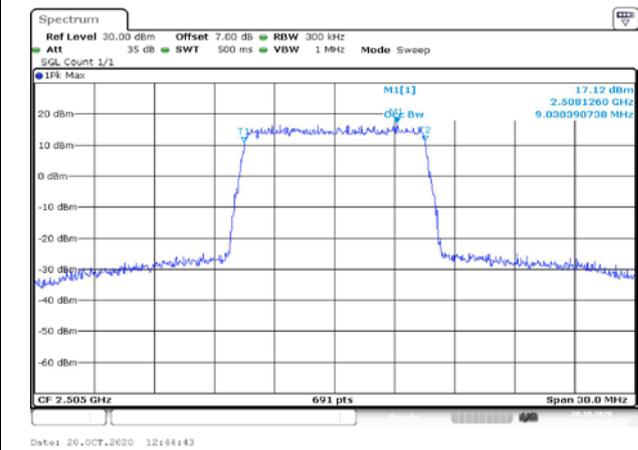


Fig.12

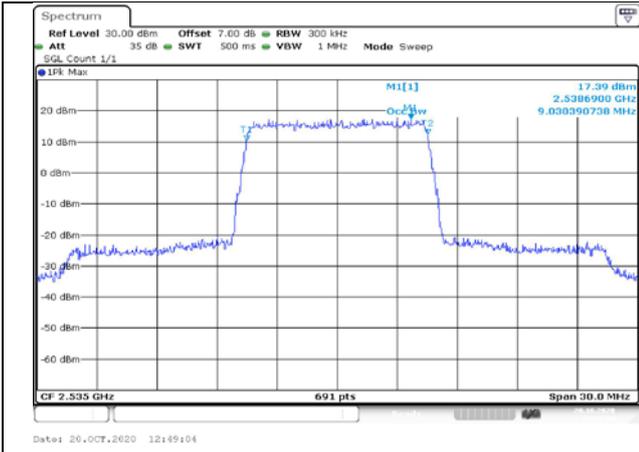


Fig.13

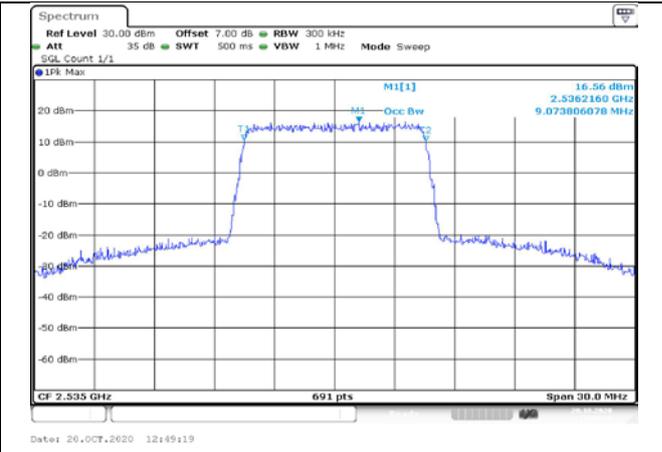


Fig.14

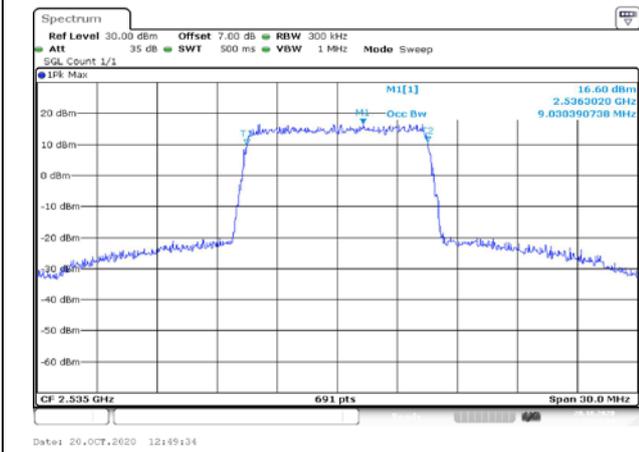


Fig.15

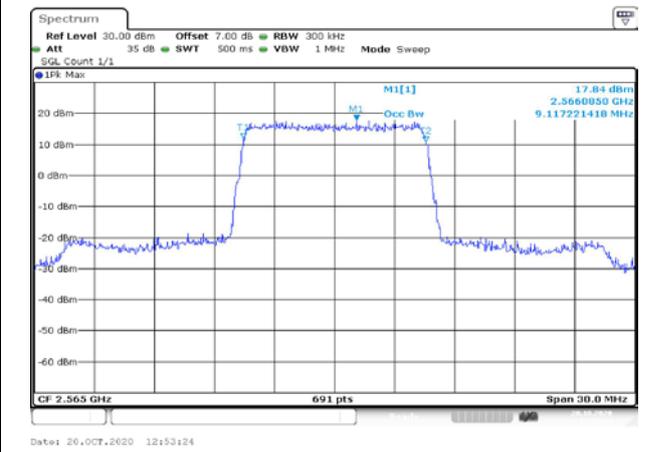


Fig.16

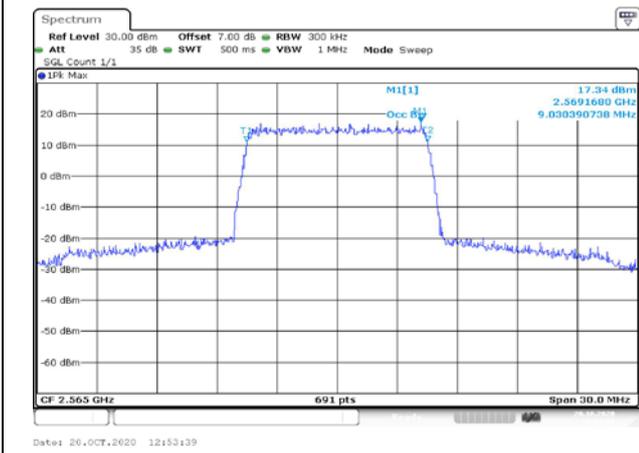


Fig.17

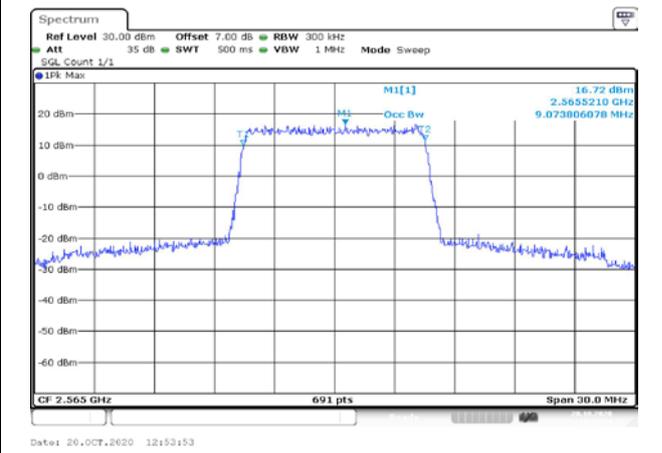


Fig.18

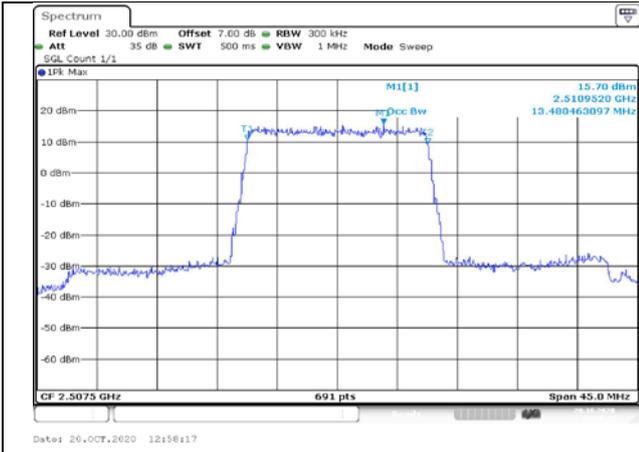


Fig.19

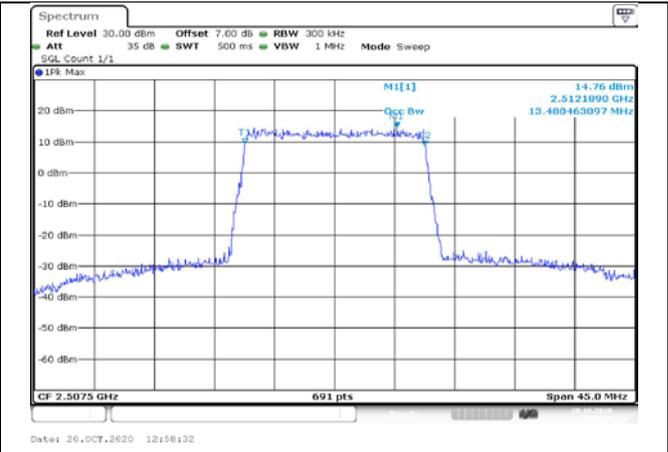


Fig.20

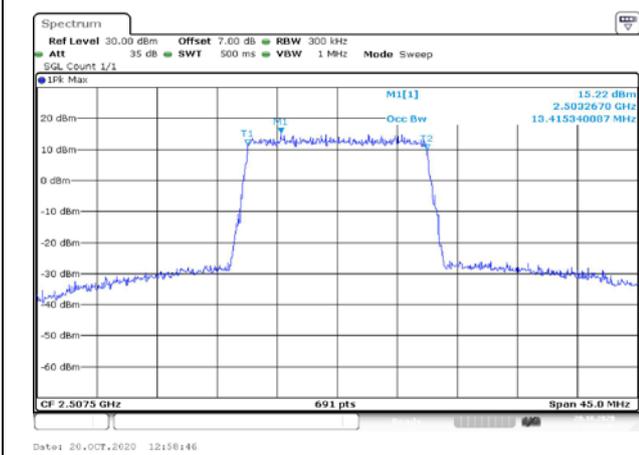


Fig.21

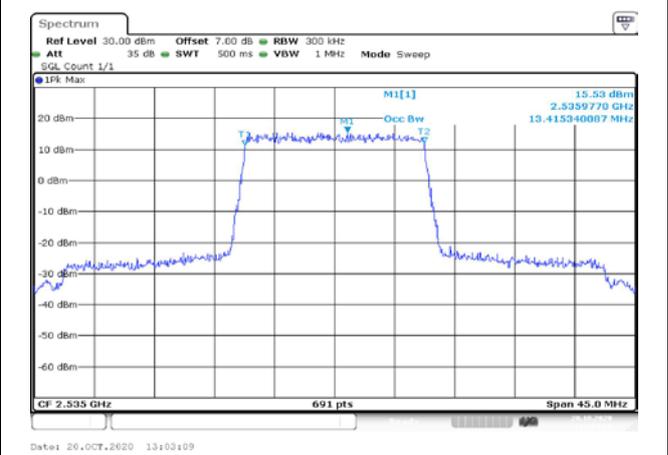


Fig.22

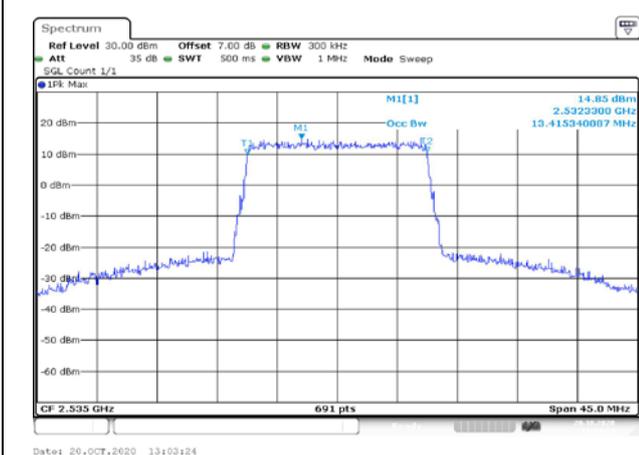


Fig.23

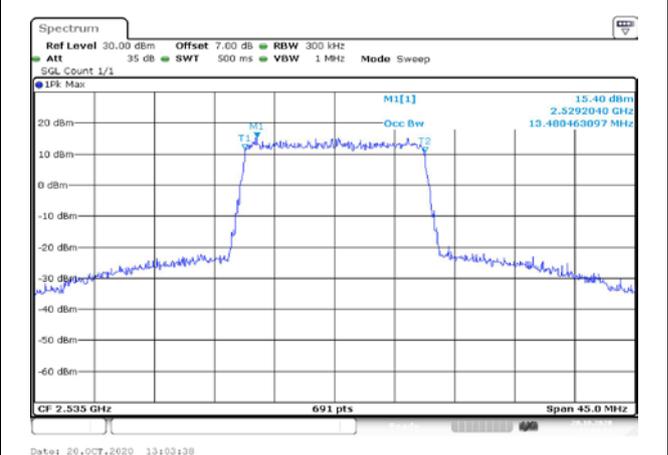


Fig.24

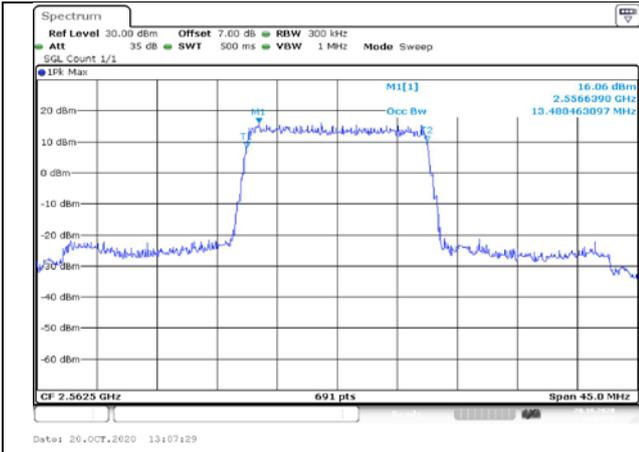


Fig.25

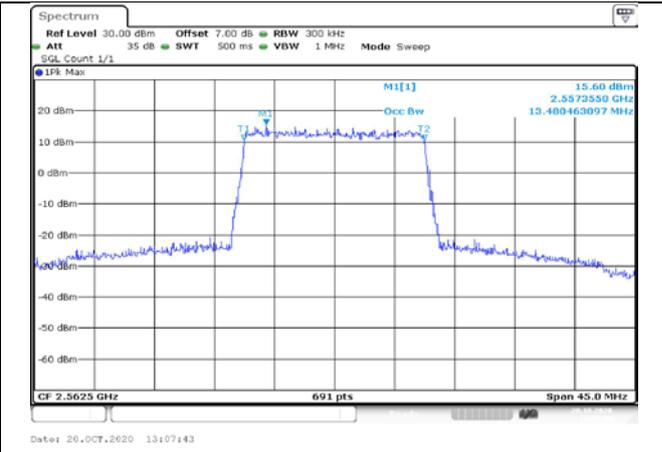


Fig.26

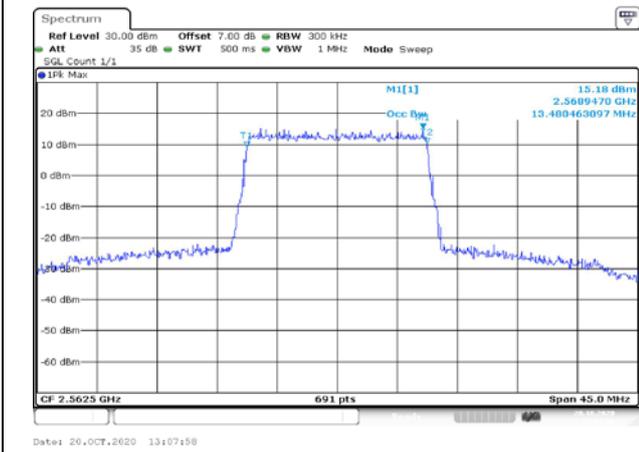


Fig.27

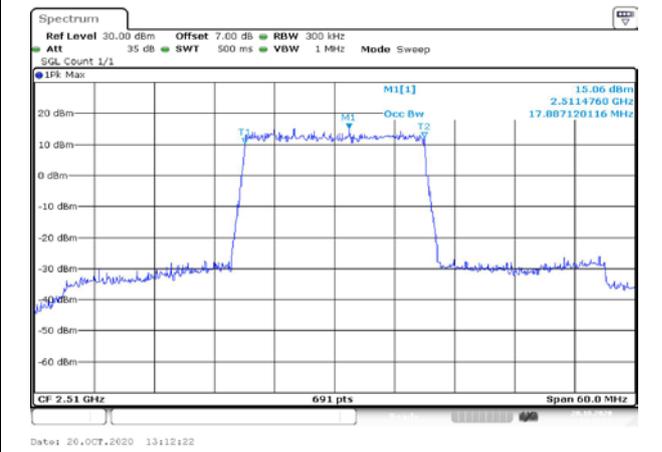


Fig.28

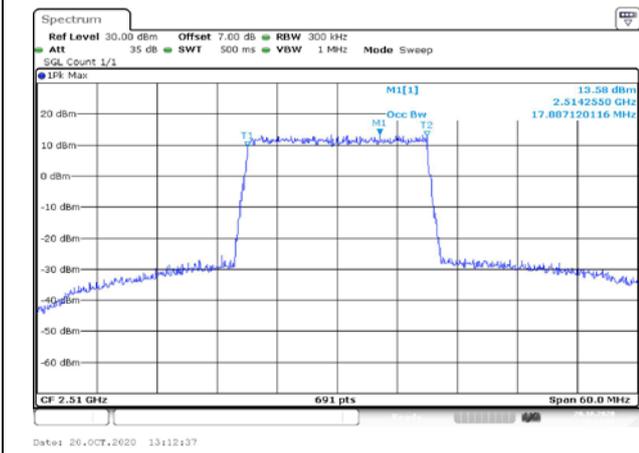


Fig.29

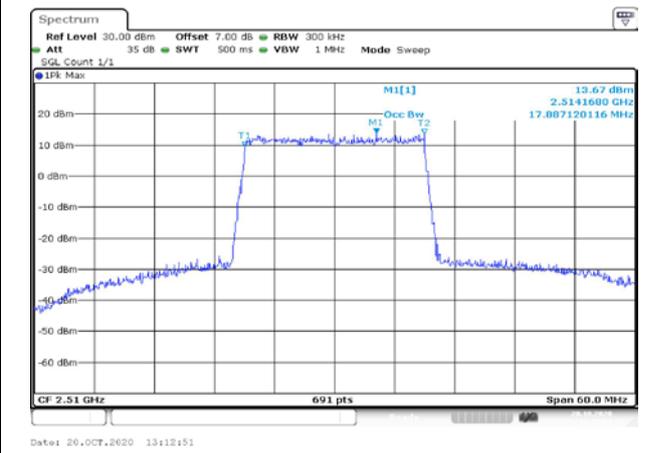


Fig.30

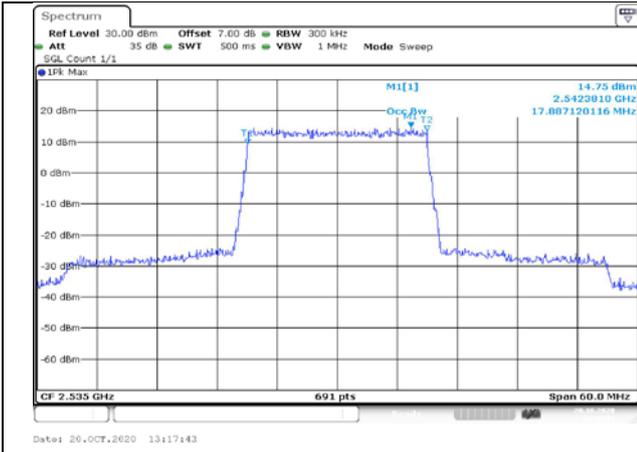


Fig.31

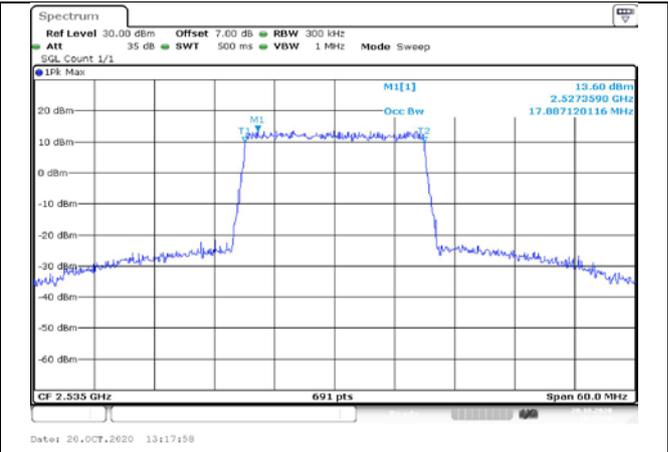


Fig.32

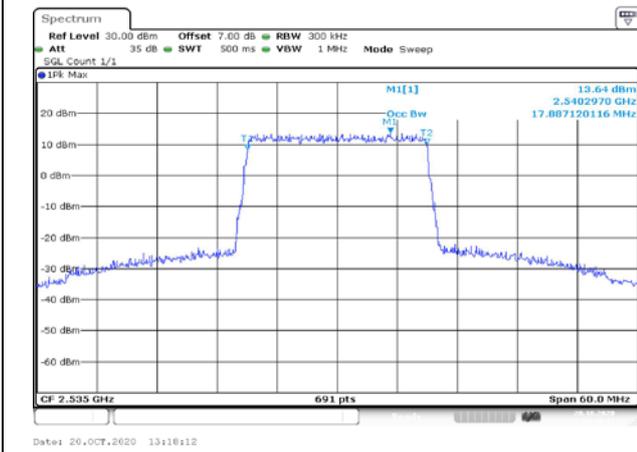


Fig.33

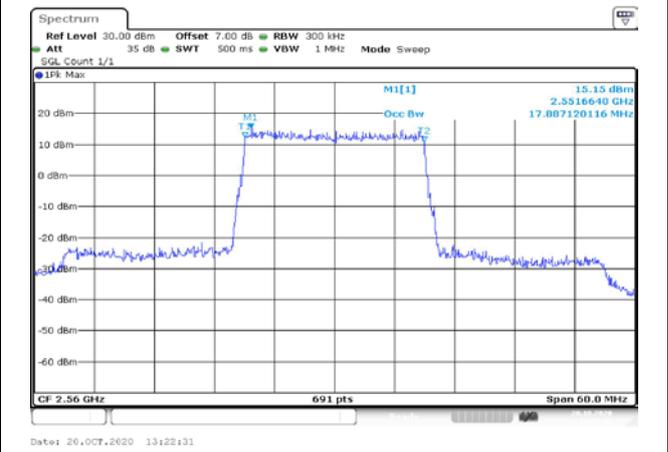


Fig.34

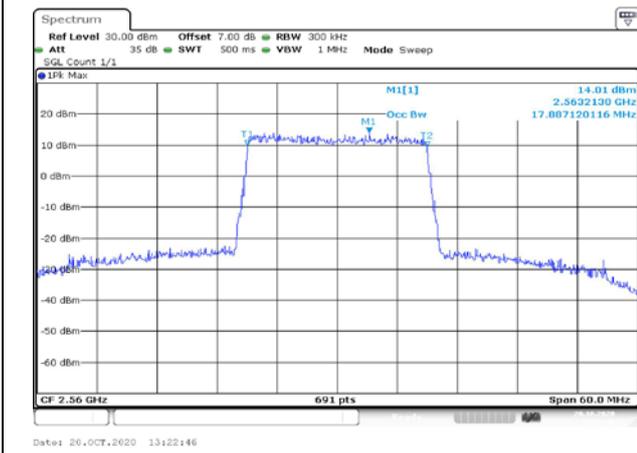


Fig.35

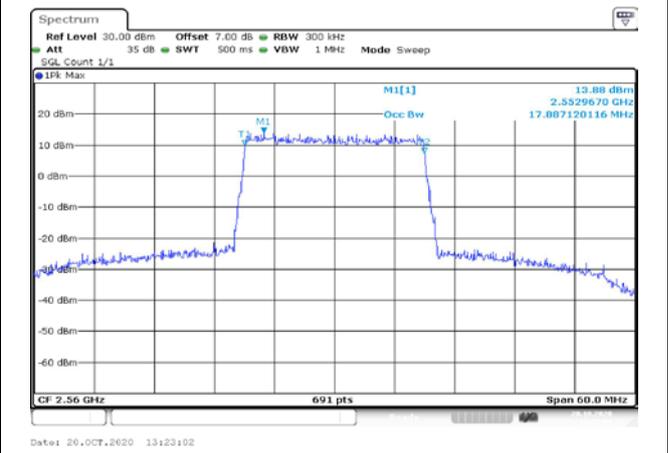


Fig.36

**Emission Bandwidth**

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2502.5	20775	5	25	0	4.928	Fig.1	4.949	Fig.2	4.928	Fig.3
	2535	21100		25	0	4.928	Fig.4	4.949	Fig.5	4.949	Fig.6
	2567.5	21425		25	0	4.949	Fig.7	4.971	Fig.8	4.949	Fig.9
	2505	20800	10	50	0	9.986	Fig.10	10.029	Fig.11	10.029	Fig.12
	2535	21100		50	0	10.072	Fig.13	9.942	Fig.14	10.029	Fig.15
	2565	21400		50	0	10.029	Fig.16	10.029	Fig.17	10.029	Fig.18
	2507.5	20825	15	75	0	14.913	Fig.19	14.848	Fig.20	14.783	Fig.21
	2535	21100		75	0	14.848	Fig.22	14.848	Fig.23	14.718	Fig.24
	2562.5	21375		75	0	14.848	Fig.25	14.783	Fig.26	14.848	Fig.27
	2510	20850	20	100	0	19.537	Fig.28	19.450	Fig.29	19.363	Fig.30
	2535	21100		100	0	19.450	Fig.31	19.537	Fig.32	19.537	Fig.33
	2560	21350		100	0	19.537	Fig.34	19.624	Fig.35	19.363	Fig.36

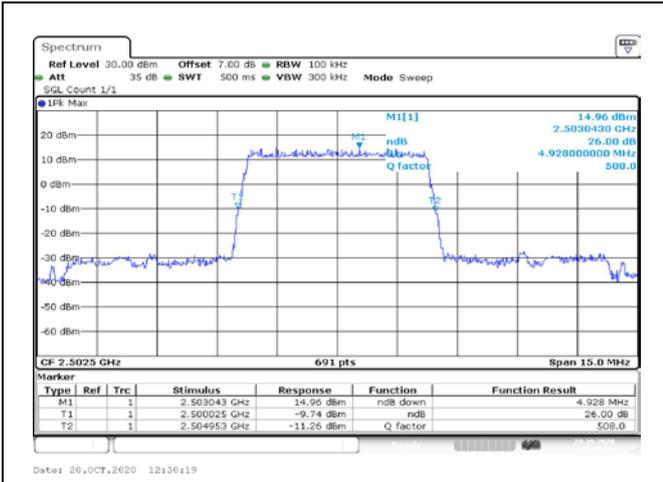


Fig.1

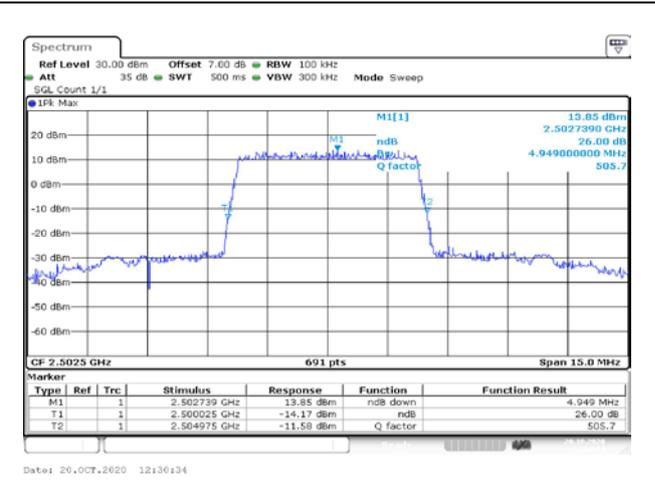


Fig.2

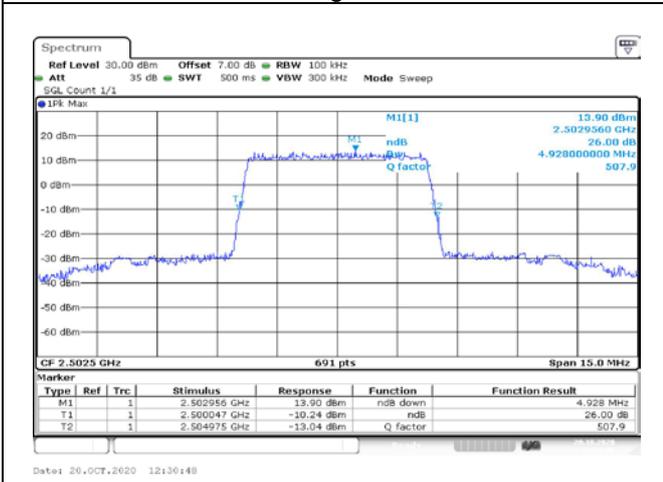


Fig.3

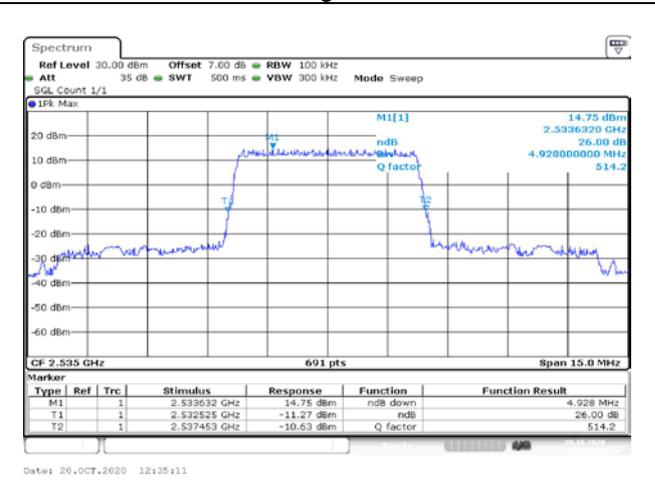


Fig.4

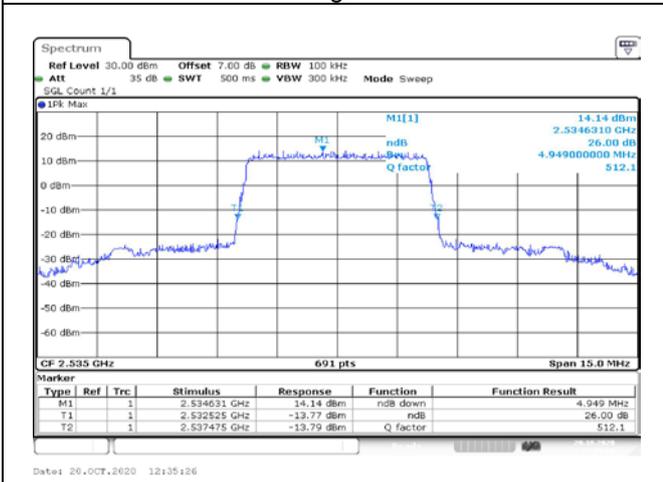


Fig.5

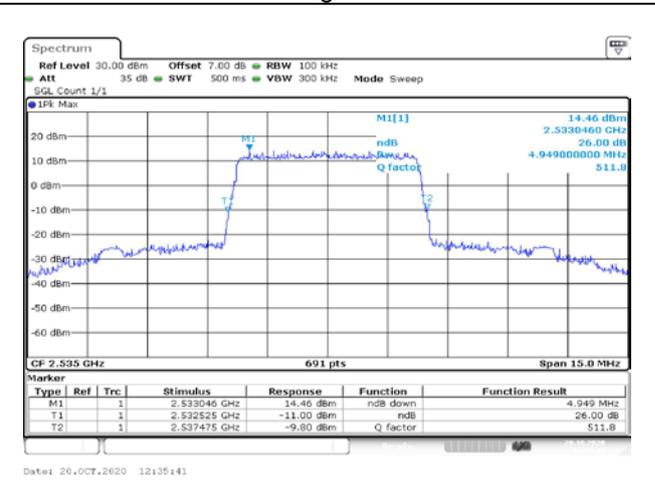


Fig.6

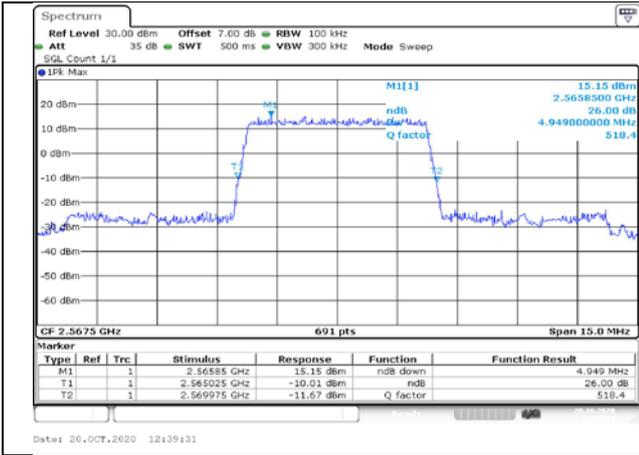


Fig.7

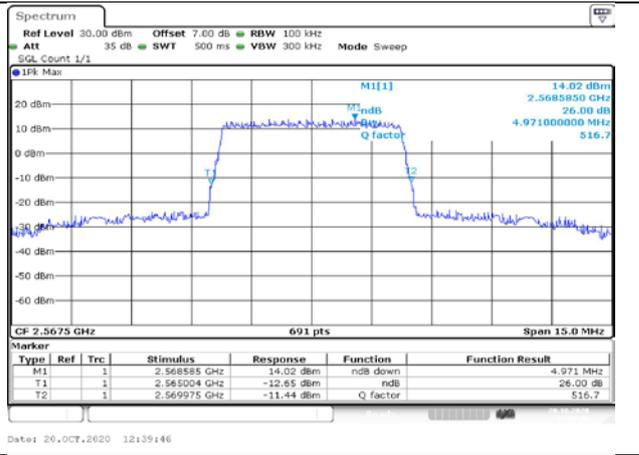


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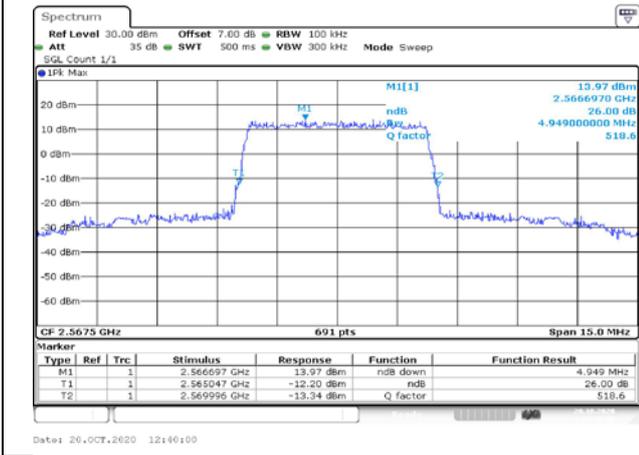


Fig.9

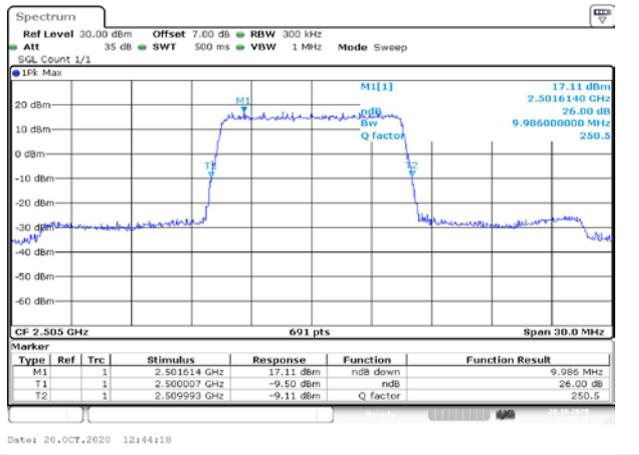


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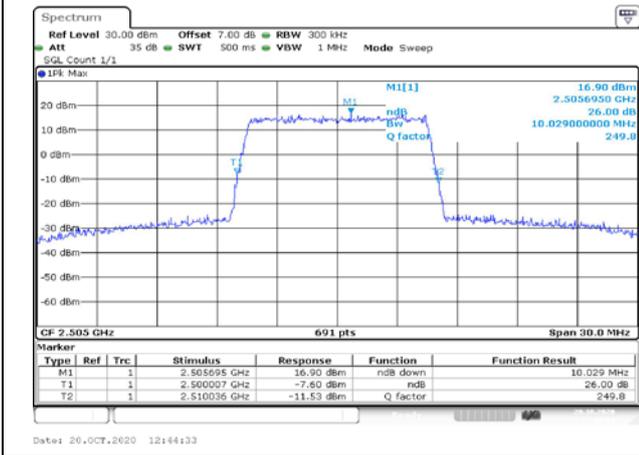


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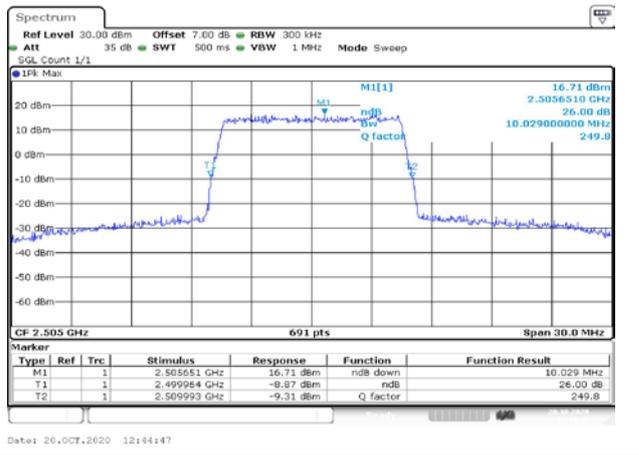


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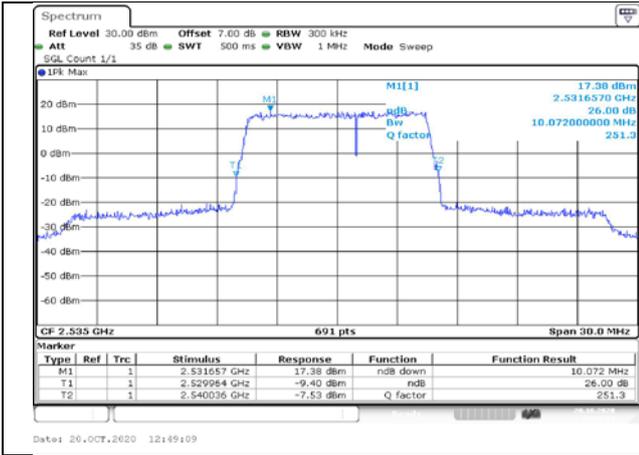


Fig.13

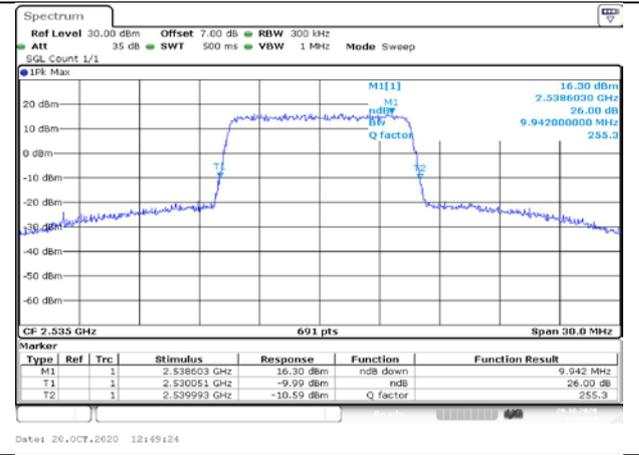


Fig.14

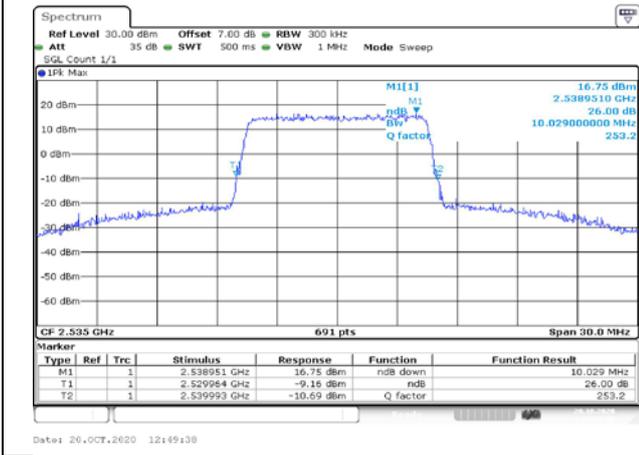


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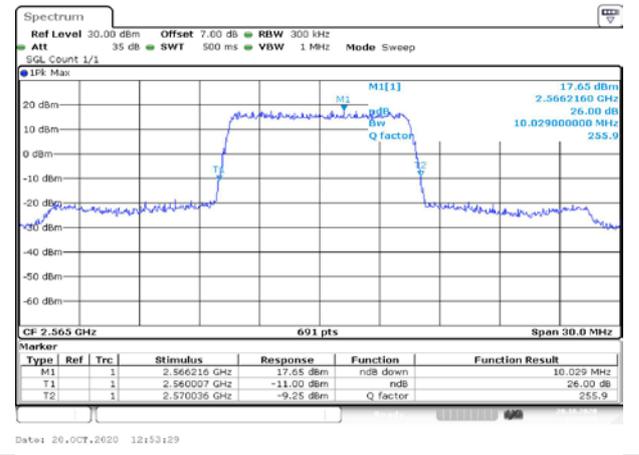


Fig.16

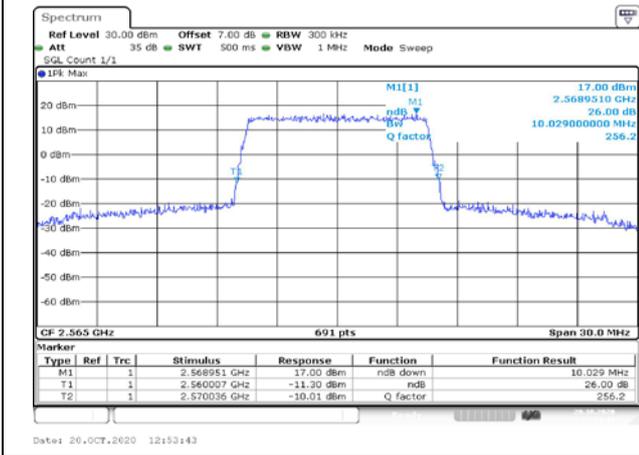


Fig.17

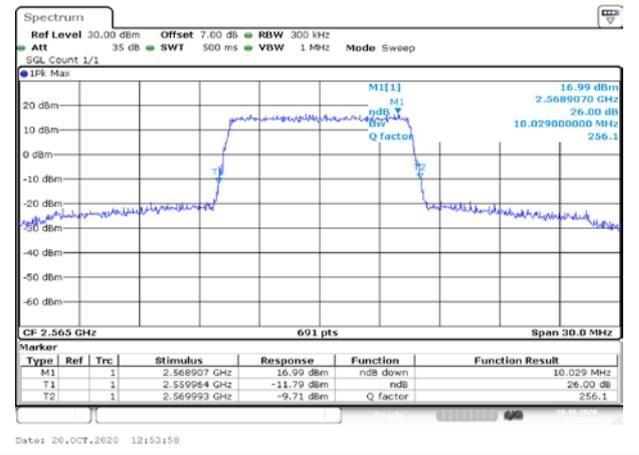


Fig.18

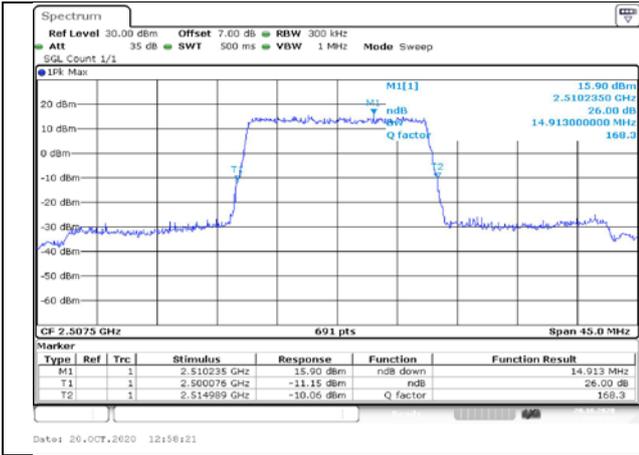


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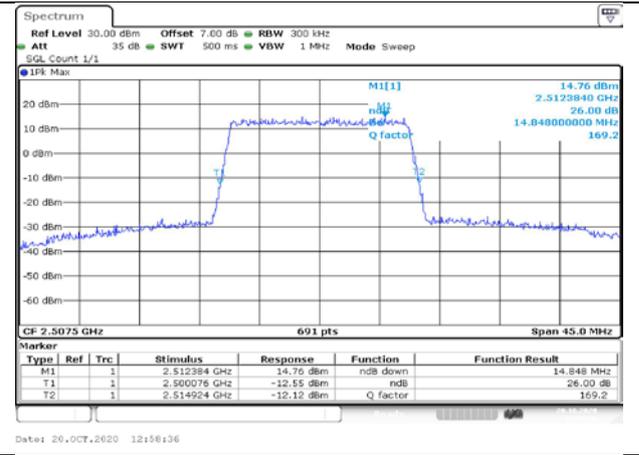


Fig.20

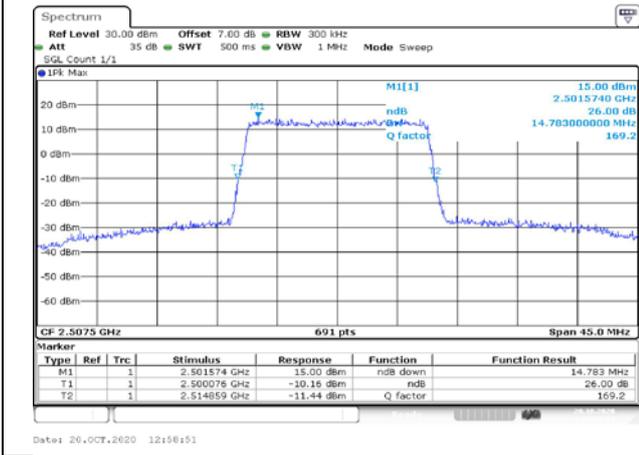


Fig.21

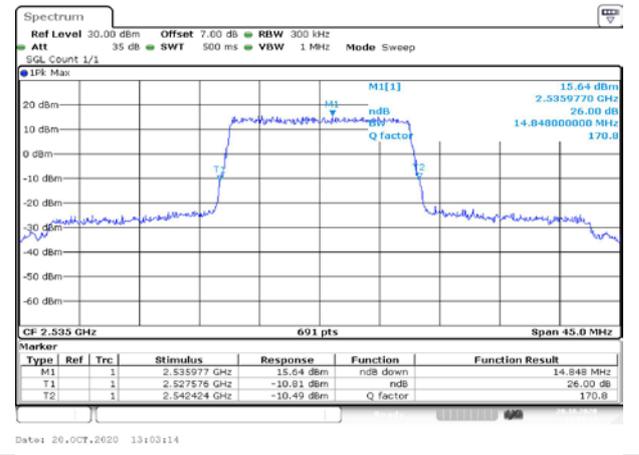


Fig.22

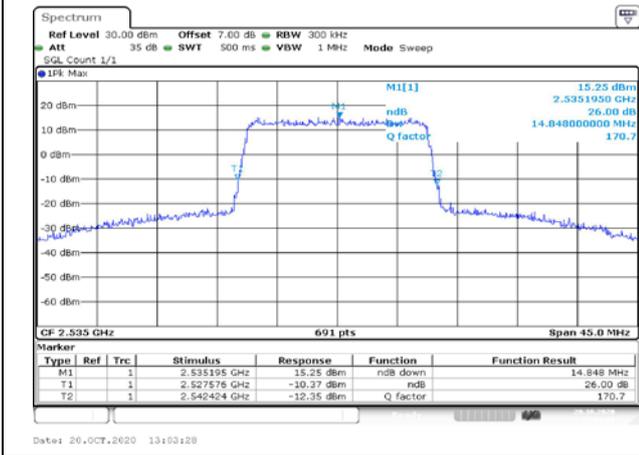


Fig.23

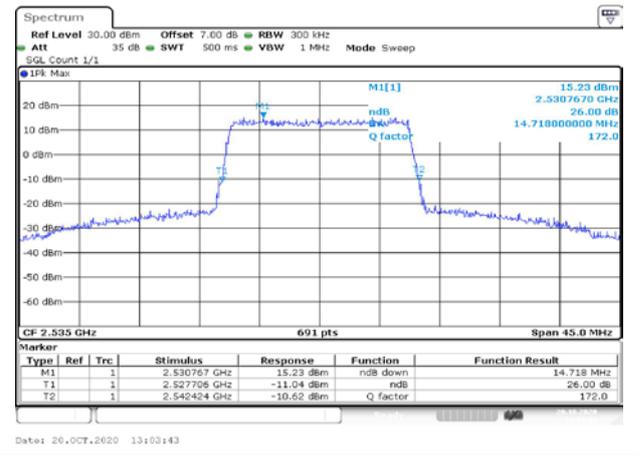


Fig.24

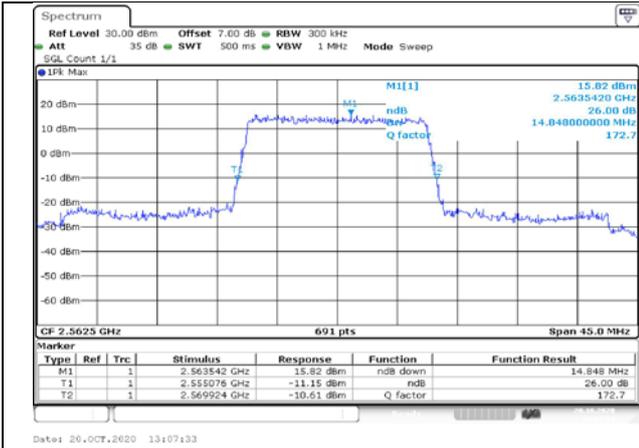


Fig.25

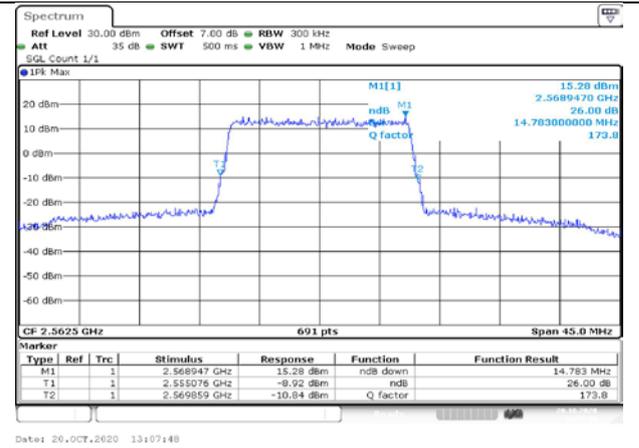


Fig.26

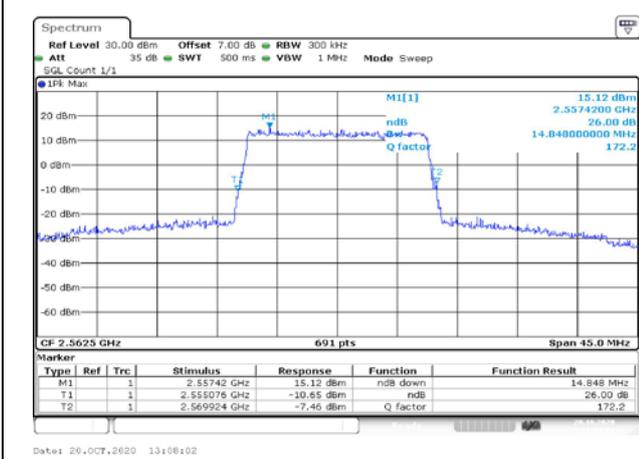


Fig.27

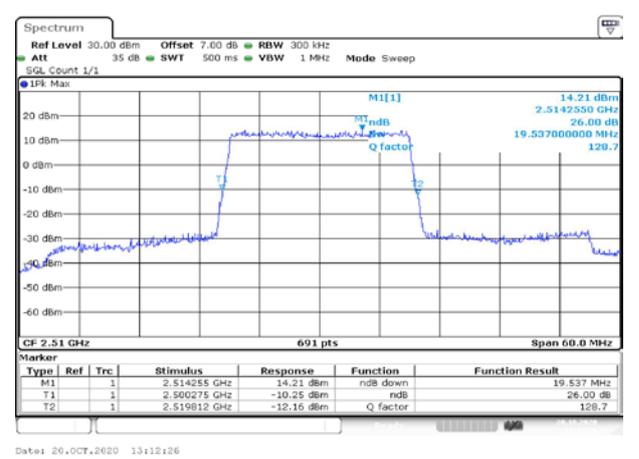


Fig.28

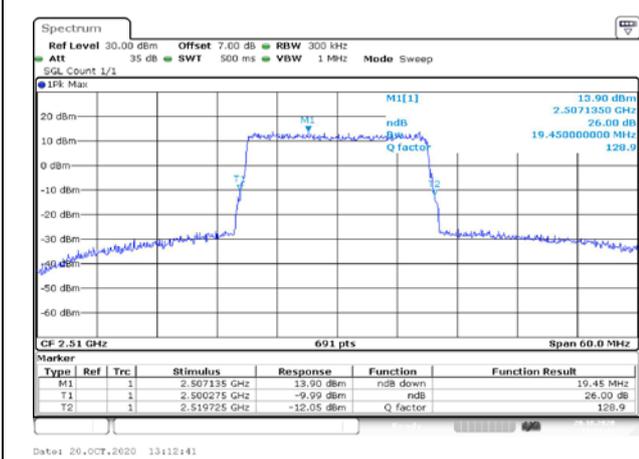


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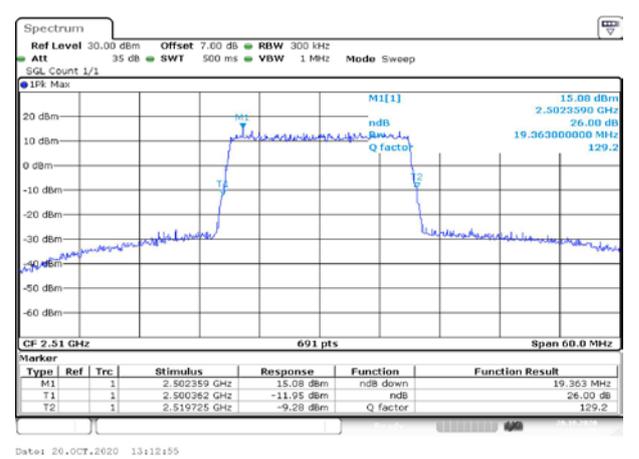


Fig.30

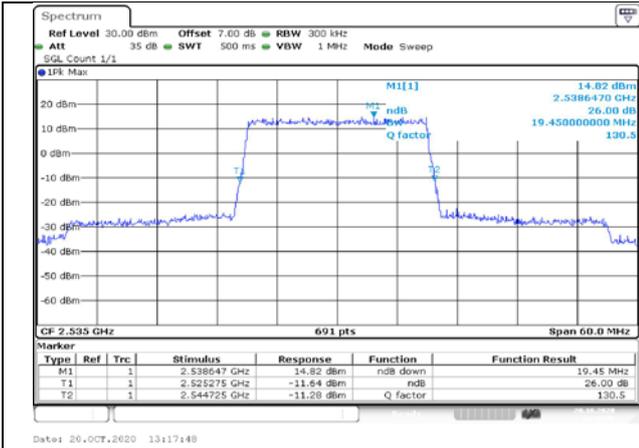


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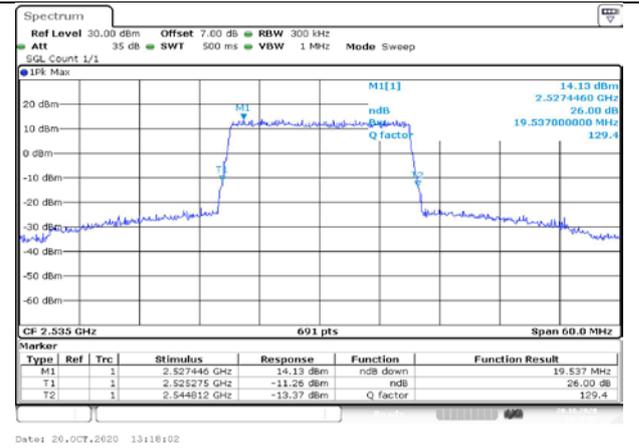


Fig.32

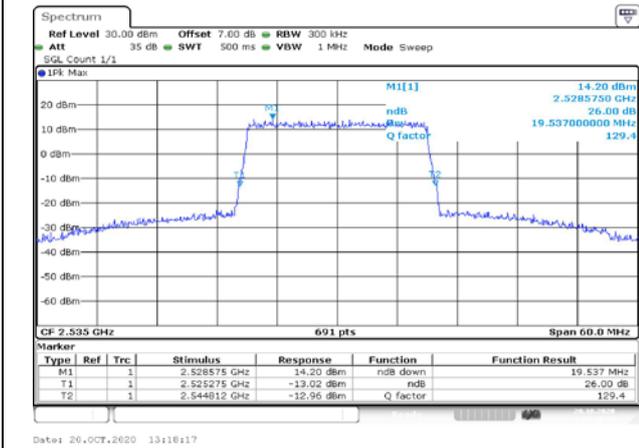


Fig.33

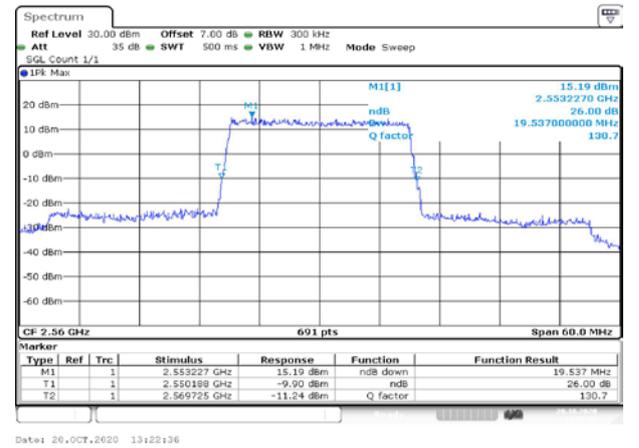


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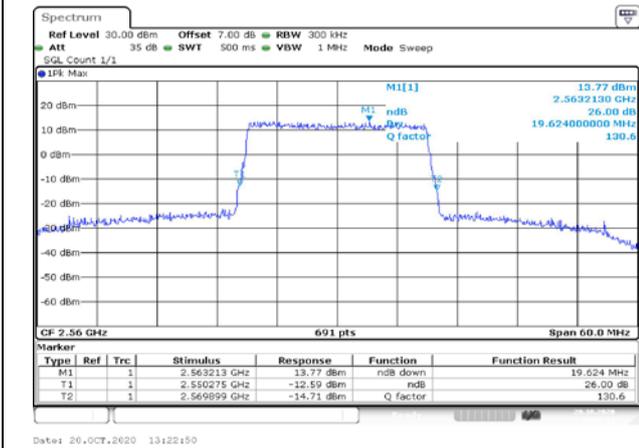


Fig.35

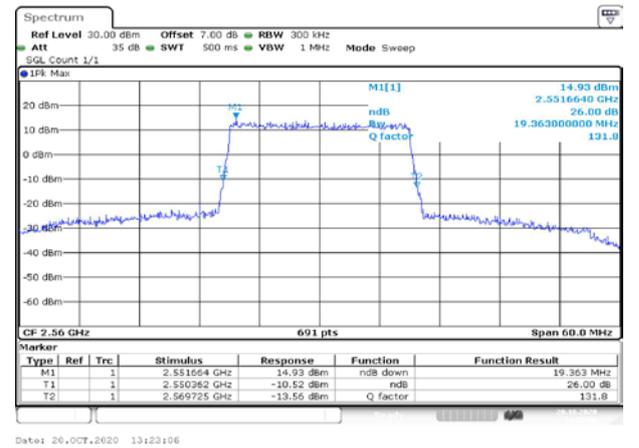


Fig.36

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

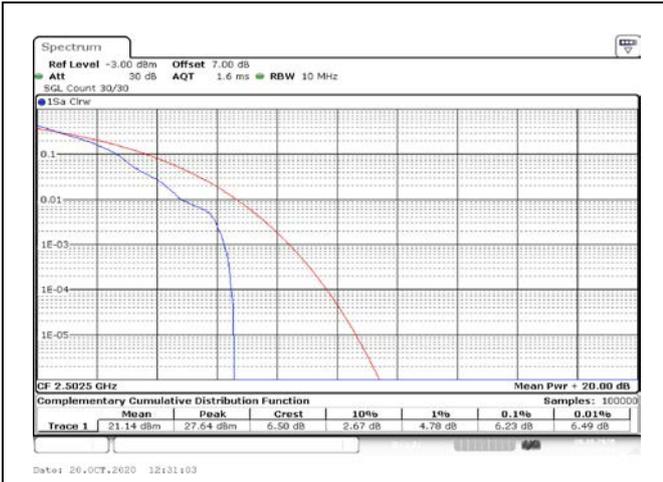


Fig.1

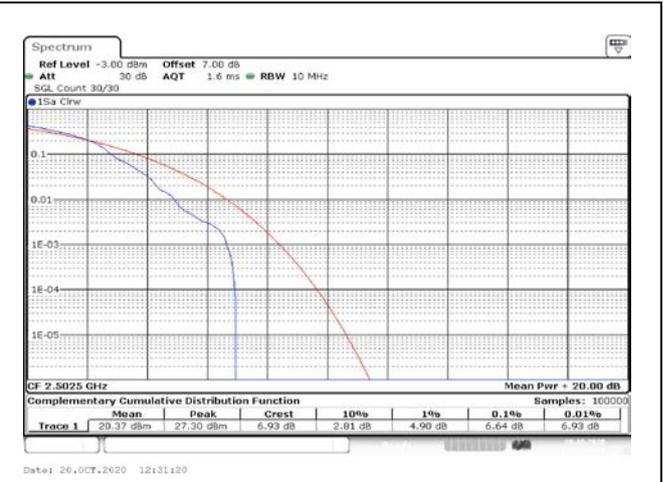


Fig.2



Fig.3

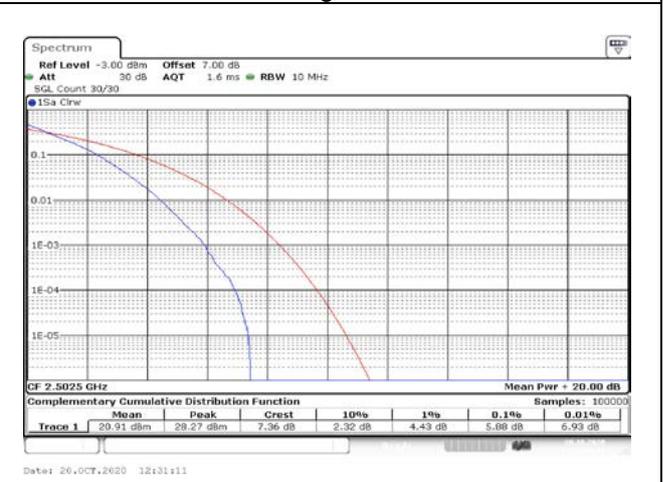


Fig.4

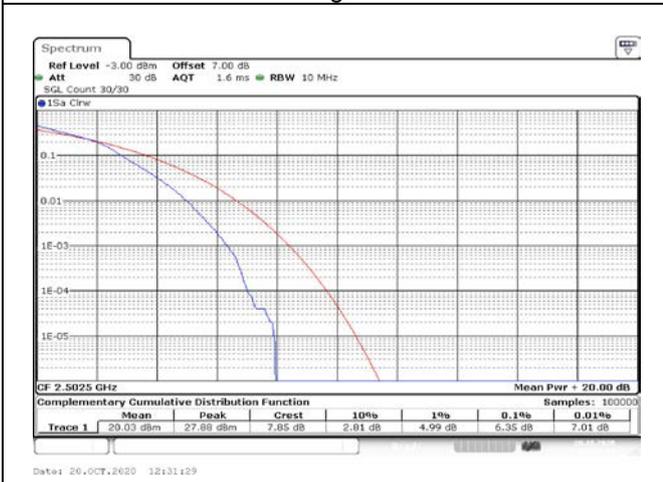


Fig.5

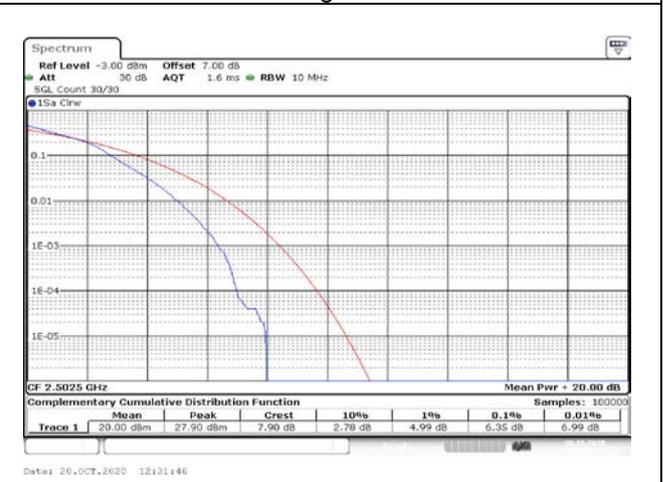


Fig.6

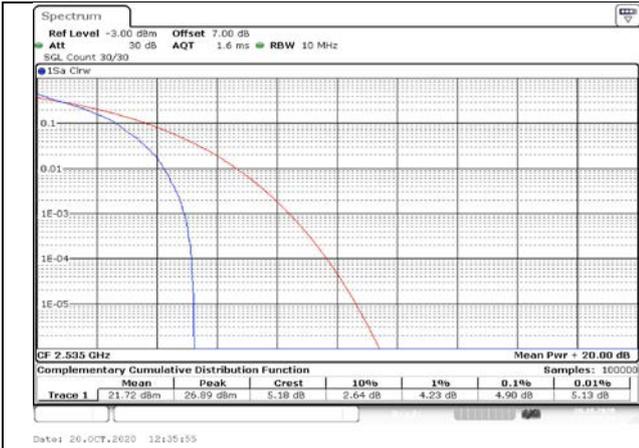


Fig.7

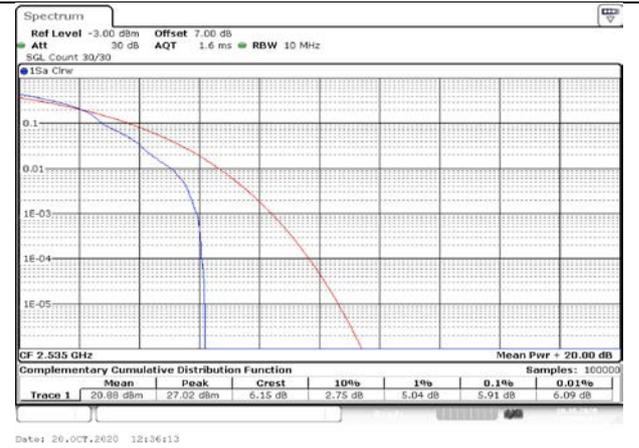


Fig.8

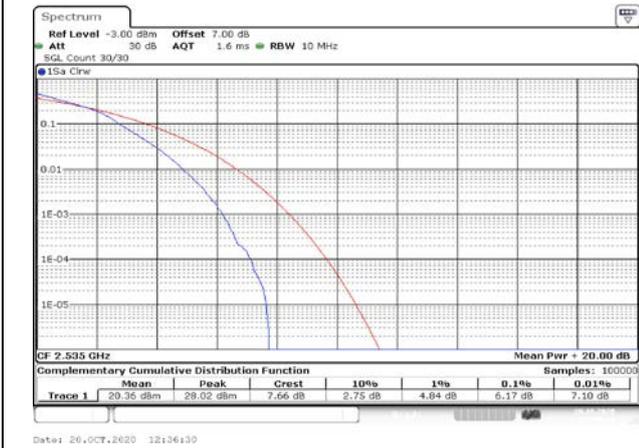


Fig.9

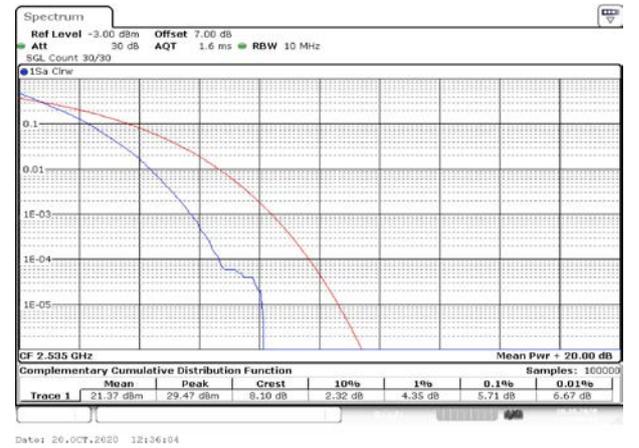


Fig.10

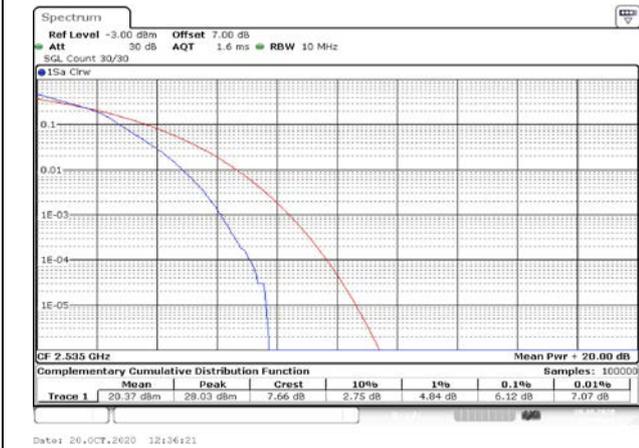


Fig.11

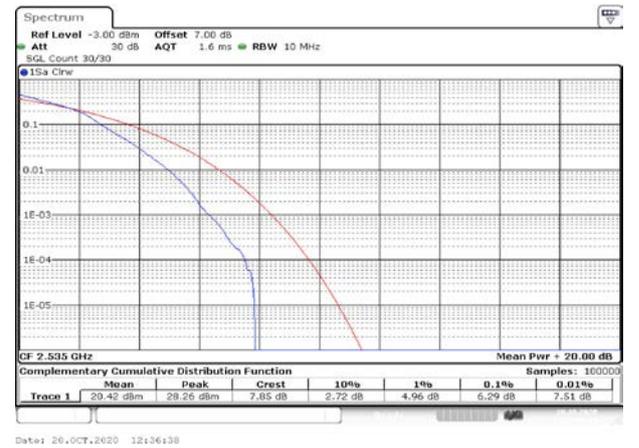


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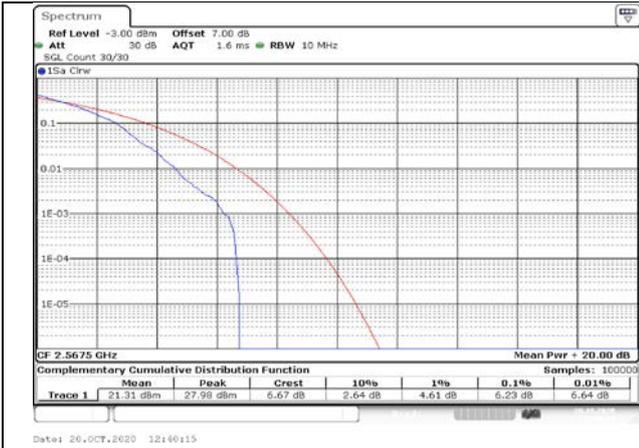


Fig.13

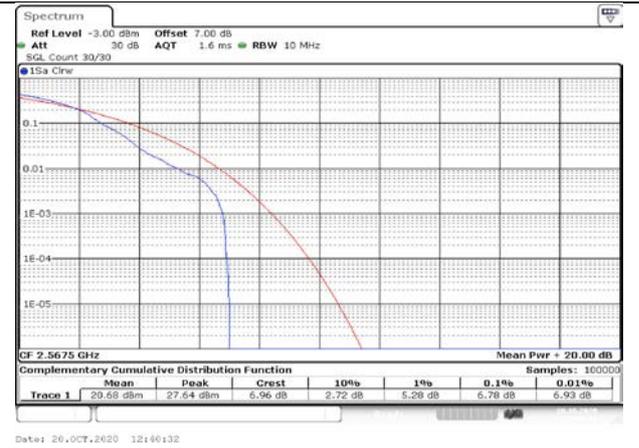


Fig.14

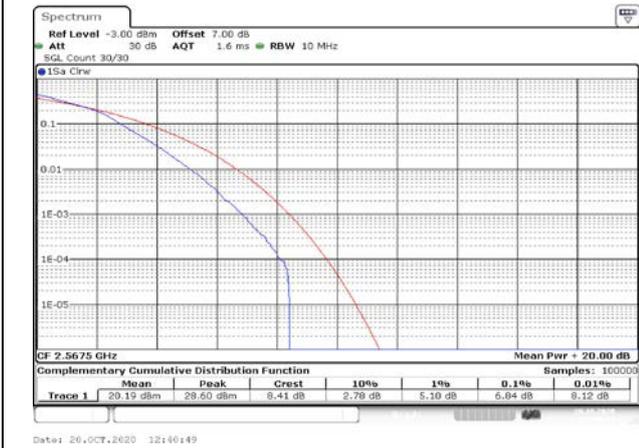


Fig.15

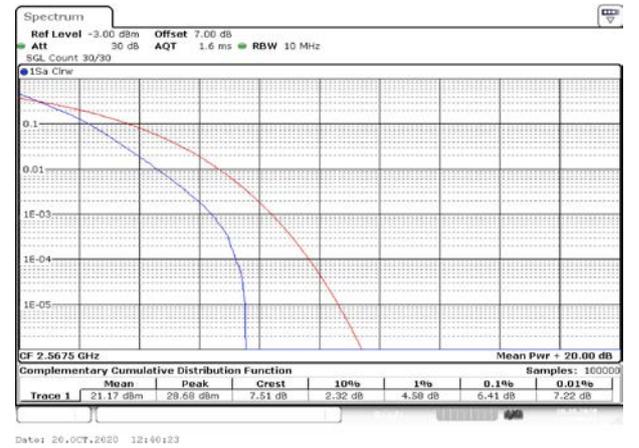


Fig.16

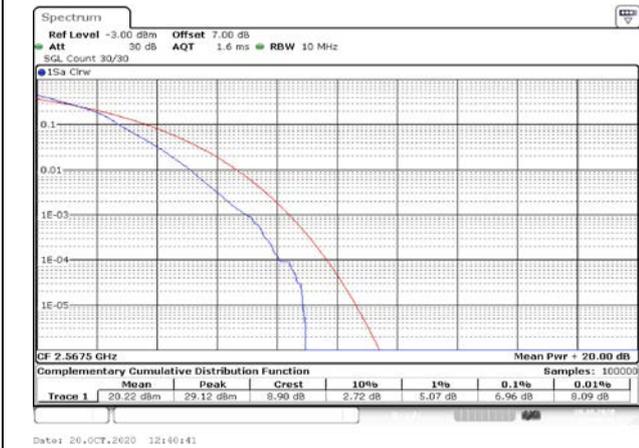


Fig.17

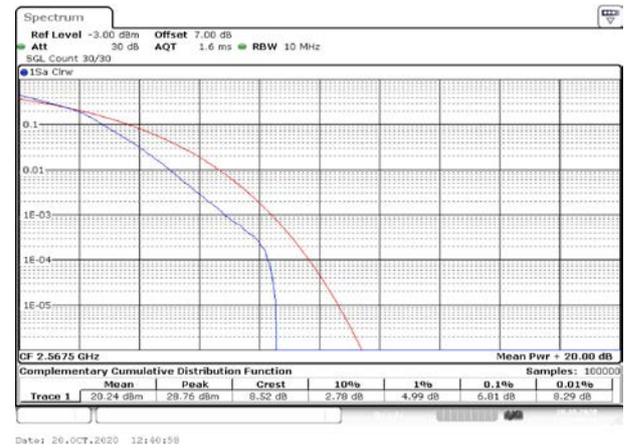


Fig.18

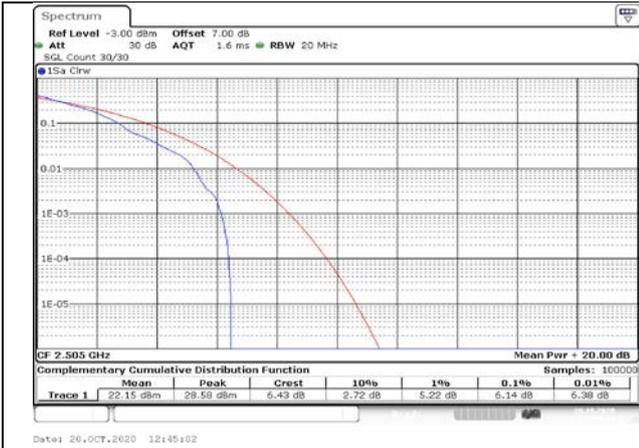


Fig.19

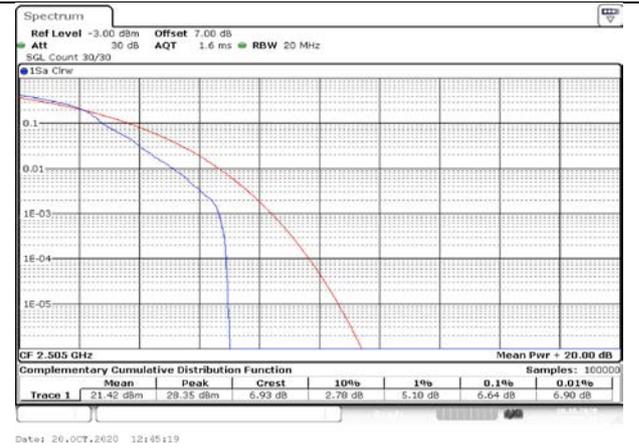


Fig.20

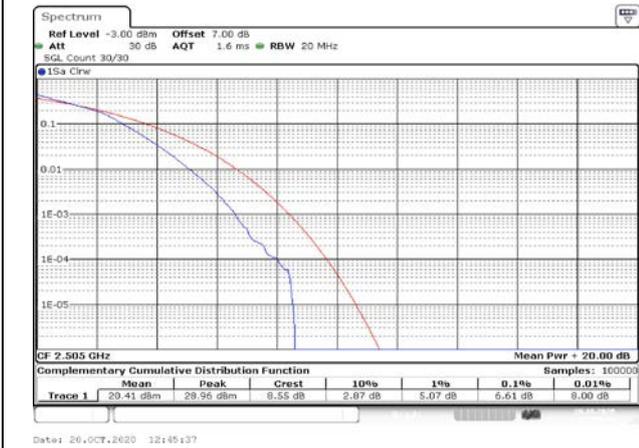


Fig.21

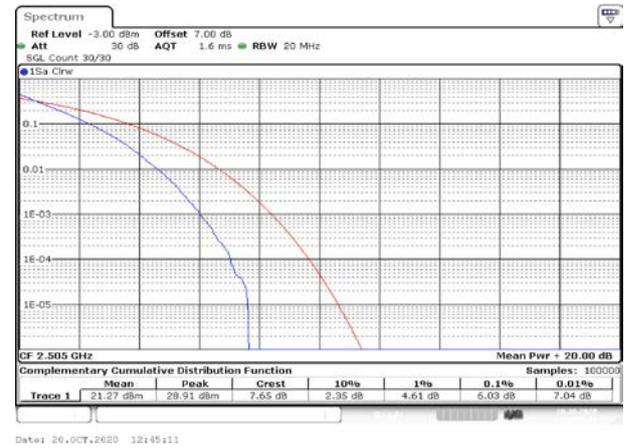


Fig.22

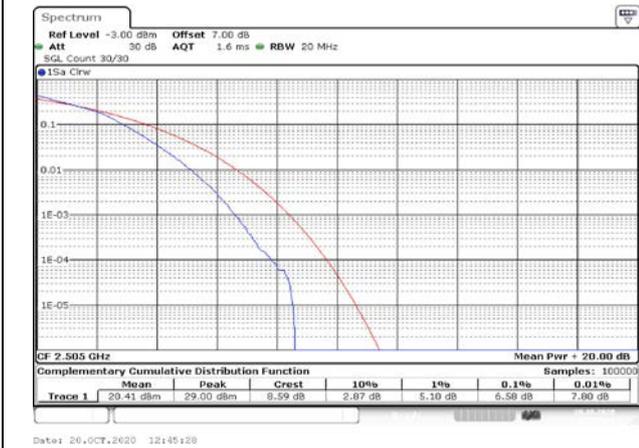


Fig.23

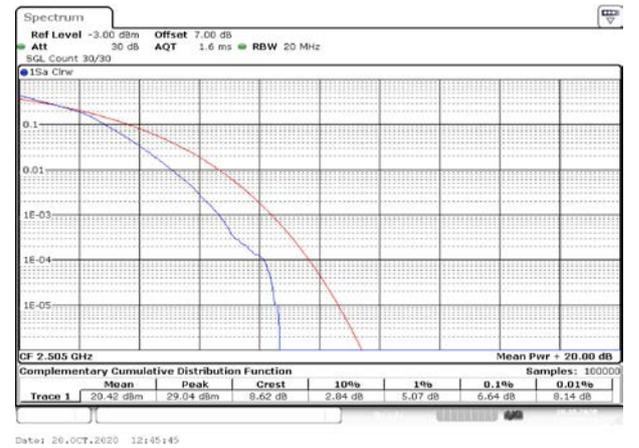


Fig.24