

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	23.4
				1	3	23.4
				1	5	23.3
				3	0	23.5
				3	1	23.5
				3	3	23.4
	707.5	23095		6	0	22.3
				1	0	23.4
				1	3	23.4
				1	5	23.4
				3	0	23.5
				3	1	23.6
	715.3	23173		3	3	23.6
				6	0	22.5
				1	0	23.7
				1	3	23.7
				1	5	23.7
				3	0	23.6
16QAM	699.7	23017	3	1	23.6	
			3	3	23.6	
			6	0	22.5	
			1	0	22.9	
			1	3	22.9	
			1	5	22.9	
	707.5	23095	3	0	22.6	
			3	1	22.6	
			3	3	22.7	
			6	0	21.6	
			1	0	23.0	
			1	3	23.2	
	715.3	23173	1	5	23.1	
			3	0	22.4	
			3	1	22.4	
			3	3	22.4	
			6	0	21.6	
			1	0	22.4	
			1	3	22.3	
			1	5	22.3	
			3	0	22.3	
			3	1	22.3	
			3	3	22.3	
			6	0	21.6	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	699.7	23017	1.4	1	0	21.6
				1	3	21.5
				1	5	21.5
				3	0	21.5
				3	1	21.5
				3	3	21.5
	707.5	23095		6	0	21.4
				1	0	21.6
				1	3	21.6
				1	5	21.5
				3	0	21.6
				3	1	21.6
	715.3	23173		3	3	21.6
				6	0	21.6
				1	0	21.6
				1	3	21.6
				1	5	21.6
				3	0	21.6
			3	1	21.6	
			3	3	21.6	
			6	0	21.6	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.4
				1	8	23.4
				1	14	23.4
				8	0	22.4
				8	4	22.4
				8	7	22.4
	707.5	23095		15	0	22.4
				1	0	23.5
				1	8	23.5
				1	14	23.5
				8	0	22.5
				8	4	22.6
	714.5	23165		8	7	22.6
				15	0	22.6
				1	0	23.8
1			8	23.7		
1			14	23.7		
8			0	22.6		
16QAM	700.5	23025	8	4	22.6	
			8	7	22.6	
			15	0	22.6	
			1	0	22.7	
			1	8	22.8	
			1	14	22.7	
	707.5	23095	8	0	21.7	
			8	4	21.8	
			8	7	21.8	
			15	0	21.6	
			1	0	22.9	
			1	8	22.8	
	714.5	23165	1	14	22.6	
			8	0	21.6	
			8	4	21.7	
8			7	21.7		
15			0	21.7		
1			0	22.2		
			1	8	22.2	
			1	14	22.2	
			8	0	21.6	
			8	4	21.7	
			8	7	21.7	
			15	0	21.6	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	700.5	23025	3	1	0	21.5
				1	8	21.4
				1	14	21.6
				8	0	21.6
				8	4	21.4
				8	7	21.6
	707.5	23095		15	0	21.5
				1	0	21.7
				1	8	21.6
				1	14	21.6
				8	0	21.6
				8	4	21.6
	714.5	23165		8	7	21.5
				15	0	21.6
				1	0	21.6
				1	8	21.6
				1	14	21.6
				8	0	21.6
			8	4	21.6	
			8	7	21.6	
			15	0	21.6	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.6
				1	12	23.5
				1	24	23.5
				12	0	22.5
				12	7	22.5
				12	13	22.5
	707.5	23095		25	0	22.4
				1	0	23.6
				1	12	23.5
				1	24	23.5
				12	0	22.7
				12	7	22.6
	713.5	23155		12	13	22.6
				25	0	22.7
				1	0	23.5
1			12	23.3		
1			24	23.4		
12			0	22.6		
16QAM	701.5	23035	12	7	22.6	
			12	13	22.6	
			25	0	22.6	
			1	0	21.7	
			1	12	21.9	
			1	24	21.9	
	707.5	23095	12	0	21.5	
			12	7	21.5	
			12	13	21.5	
			25	0	21.6	
			1	0	22.4	
			1	12	22.3	
	713.5	23155	1	24	22.3	
			12	0	21.6	
			12	7	21.5	
12			13	21.5		
25			0	21.5		
1			0	22.1		
1	12	22.2				
1	24	22.6				
12	0	21.6				
12	7	21.5				
12	13	21.5				
25	0	21.7				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	701.5	23035	5	1	0	21.6
				1	12	21.6
				1	24	21.6
				12	0	21.6
				12	7	21.6
				12	13	21.6
	707.5	23095		25	0	21.6
				1	0	21.5
				1	12	21.5
				1	24	21.5
				12	0	21.5
				12	7	21.5
	713.5	23155		12	13	21.5
				25	0	21.5
				1	0	21.7
				1	12	21.7
				1	24	21.7
				12	0	21.5
			12	7	21.5	
			12	13	21.5	
			25	0	21.5	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.5
				1	25	23.5
				1	49	23.5
				25	0	22.4
				25	12	22.5
				25	25	22.5
	707.5	23095		50	0	22.7
				1	0	23.5
				1	25	23.6
				1	49	23.6
				25	0	22.7
				25	12	22.6
	711	23130		25	25	22.6
				50	0	22.5
				1	0	23.7
1			25	23.7		
1			49	23.7		
25			0	22.5		
16QAM	704	23060	25	12	22.7	
			25	25	22.7	
			50	0	22.6	
			1	0	22.7	
			1	25	22.8	
			1	49	22.8	
	707.5	23095	25	0	21.6	
			25	12	21.6	
			25	25	21.6	
			50	0	21.6	
			1	0	23.2	
			1	25	23.3	
	711	23130	1	49	23.3	
			25	0	21.7	
			25	12	21.7	
25			25	21.7		
50			0	21.6		
1			0	22.5		
			1	25	22.5	
			1	49	22.5	
			25	0	21.8	
			25	12	21.7	
			25	25	21.7	
			50	0	21.4	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	704	23060	10	1	0	21.6
				1	25	21.6
				1	49	21.6
				25	0	21.6
				25	12	21.6
				25	25	21.7
	50	0		21.6		
	707.5	23095		1	0	22.0
				1	25	21.5
				1	49	21.7
				25	0	21.7
				25	12	21.8
				25	25	21.8
	711	23130		50	0	21.8
				1	0	21.4
				1	25	21.4
				1	49	21.7
				25	0	21.7
25			12	21.7		
			25	25	21.4	
			50	0	21.8	

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	
12	699.7	23017	1.4	6	0	1.100	Fig.1	1.094	Fig.2	1.100	Fig.3
	707.5	23095		6	0	1.088	Fig.4	1.094	Fig.5	1.094	Fig.6
	715.3	23173		6	0	1.106	Fig.7	1.100	Fig.8	1.100	Fig.9
	700.5	23025	3	15	0	2.735	Fig.10	2.735	Fig.11	2.748	Fig.12
	707.5	23095		15	0	2.735	Fig.13	2.748	Fig.14	2.748	Fig.15
	714.5	23165		15	0	2.761	Fig.16	2.748	Fig.17	2.761	Fig.18
	701.5	23035	5	25	0	4.515	Fig.19	4.493	Fig.20	4.515	Fig.21
	707.5	23095		25	0	4.515	Fig.22	4.515	Fig.23	4.515	Fig.24
	713.5	23155		25	0	4.493	Fig.25	4.493	Fig.26	4.493	Fig.27
	704	23060	10	50	0	9.030	Fig.28	9.030	Fig.29	9.030	Fig.30
	707.5	23095		50	0	9.030	Fig.31	9.117	Fig.32	9.074	Fig.33
	711	23130		50	0	9.030	Fig.34	9.030	Fig.35	9.030	Fig.36

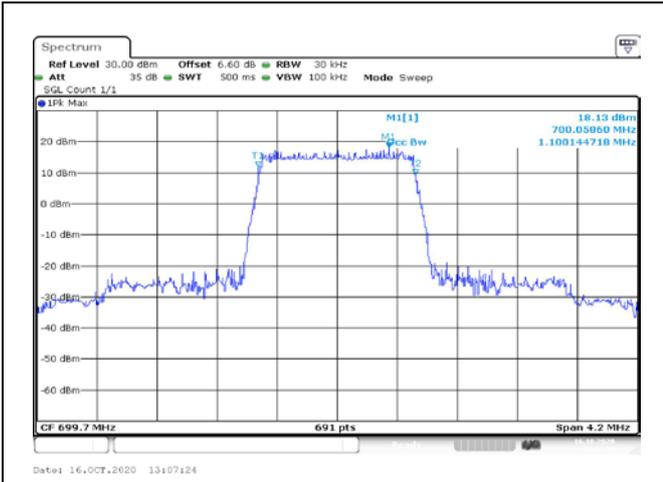


Fig.1

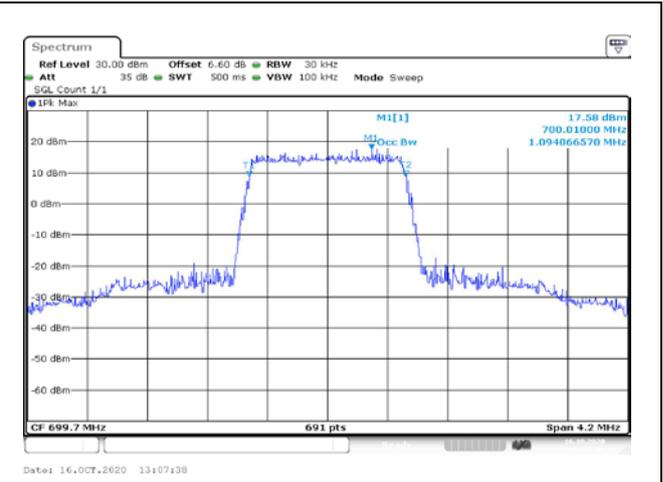


Fig.2

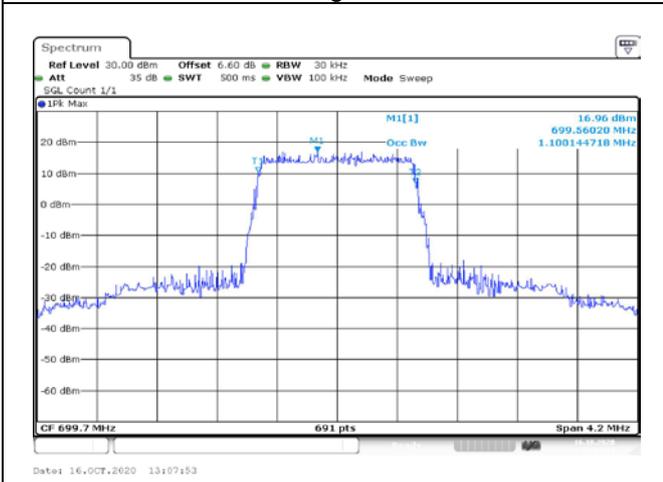


Fig.3

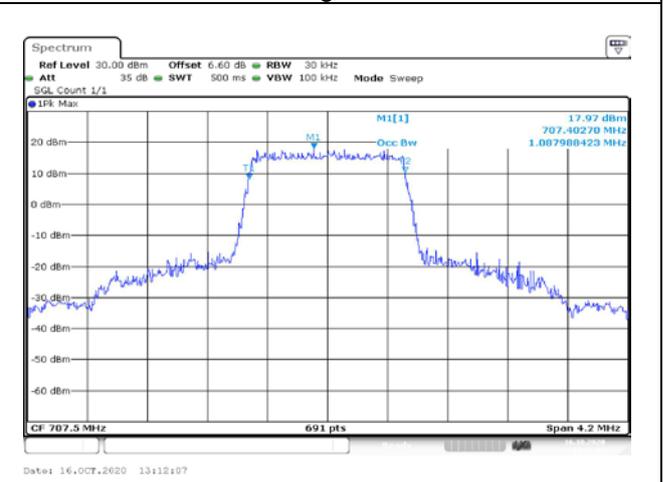


Fig.4

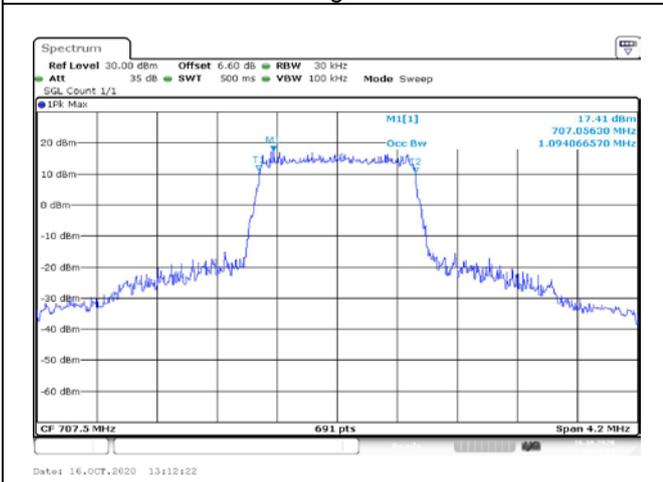


Fig.5

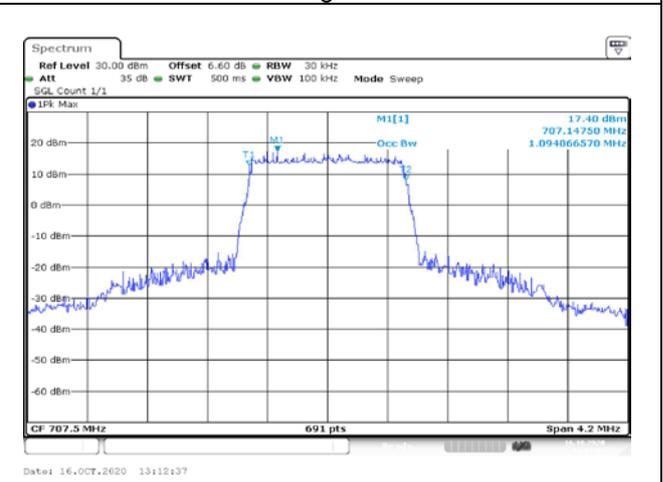


Fig.6

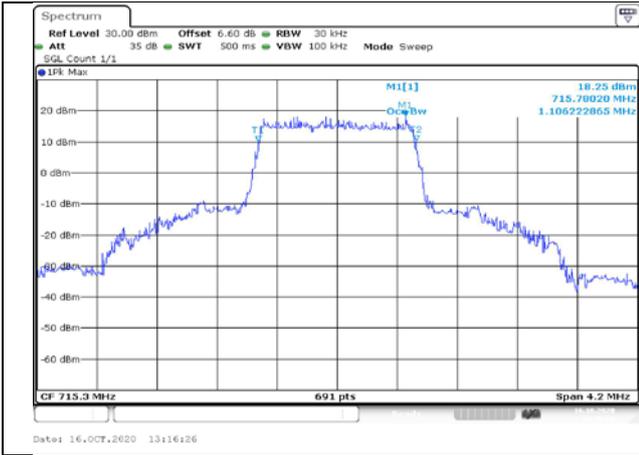


Fig.7

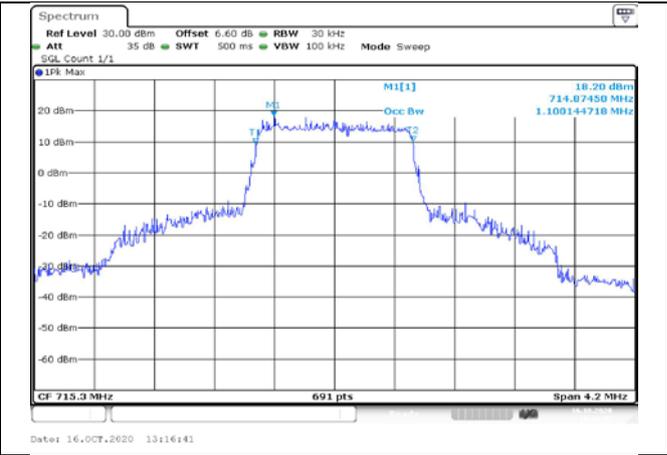


Fig.8

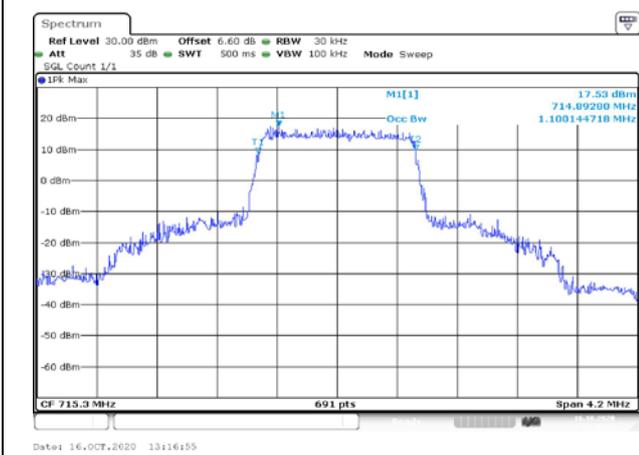


Fig.9

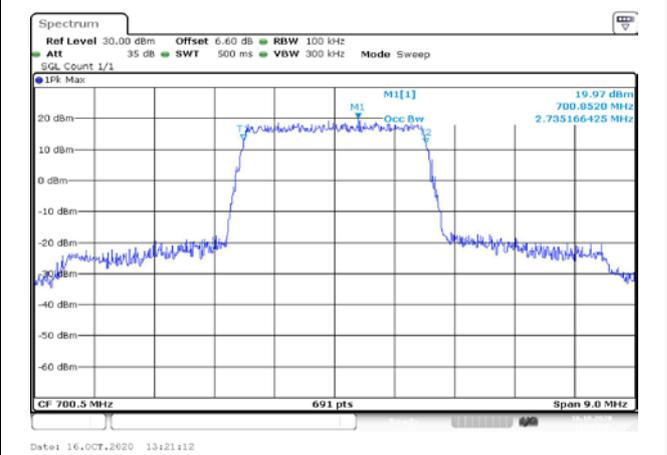


Fig.10

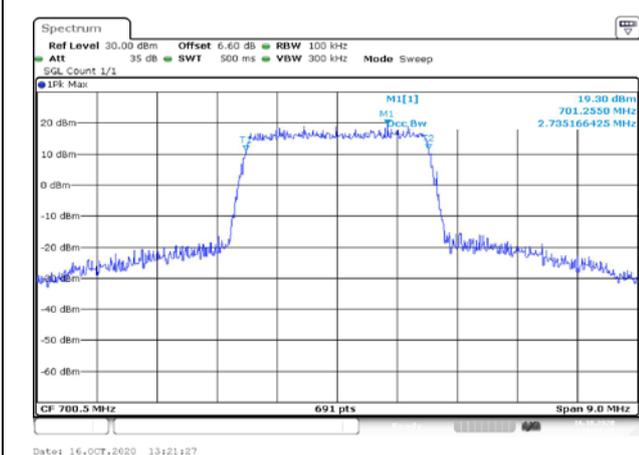


Fig.11

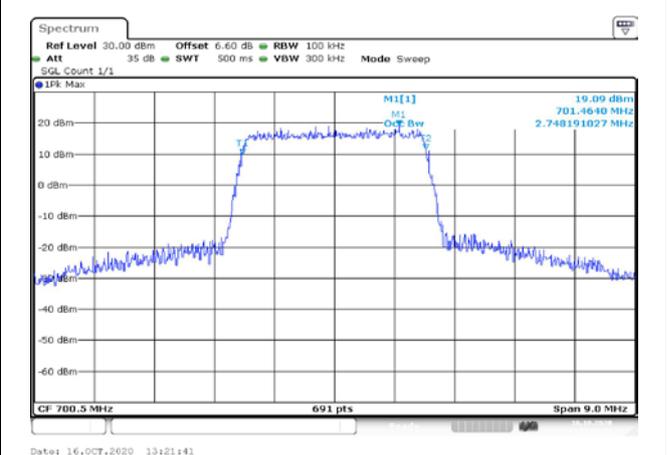


Fig.12

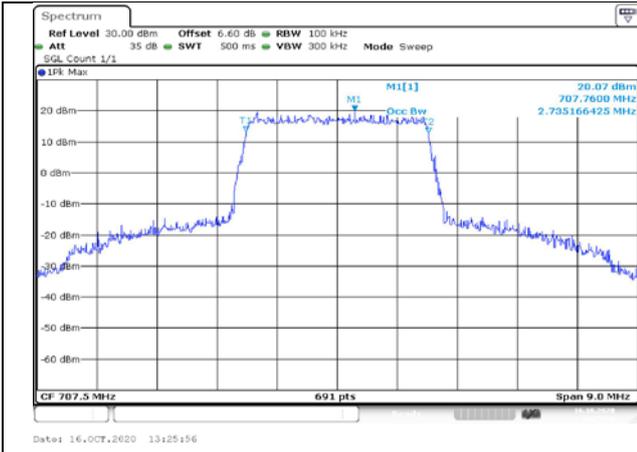


Fig.13

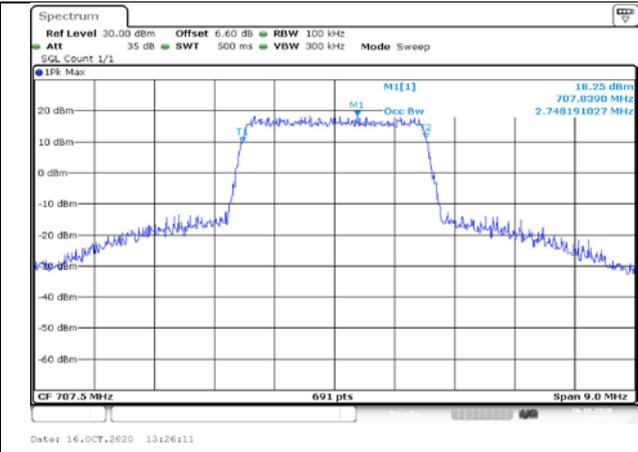


Fig.14

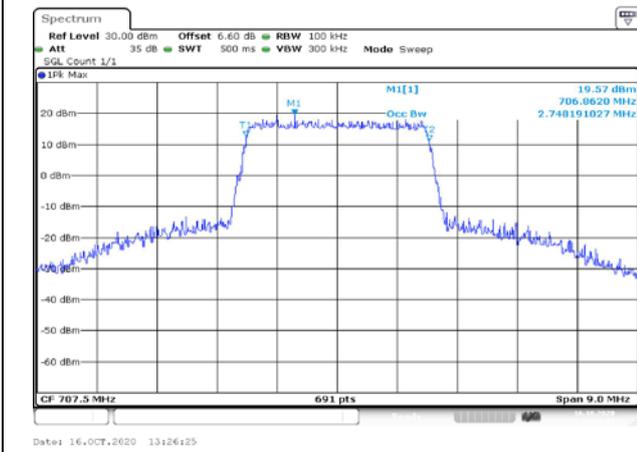


Fig.15

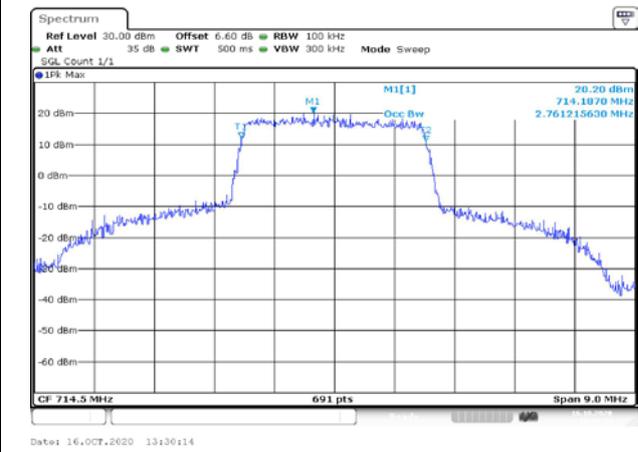


Fig.16

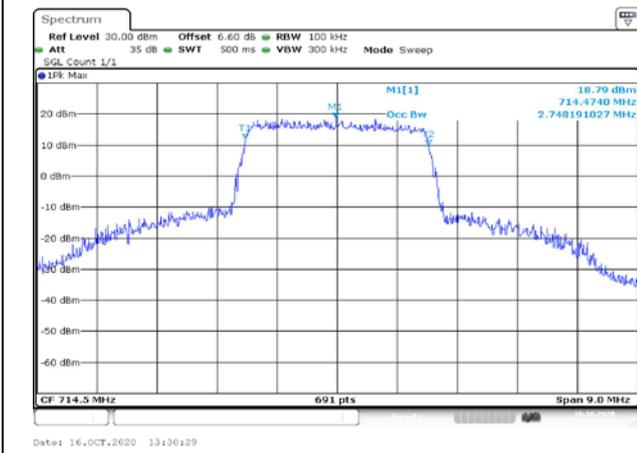


Fig.17

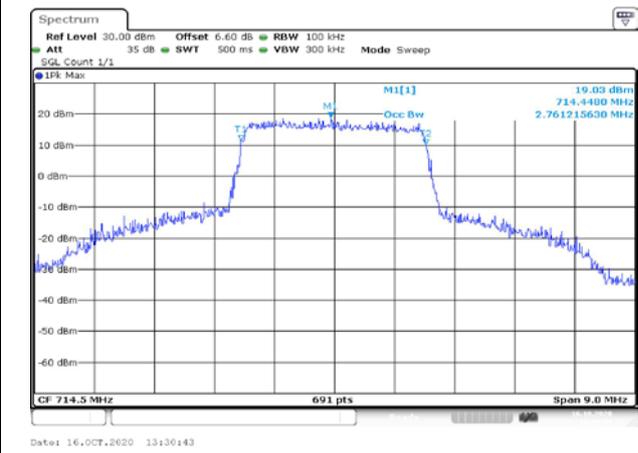


Fig.18

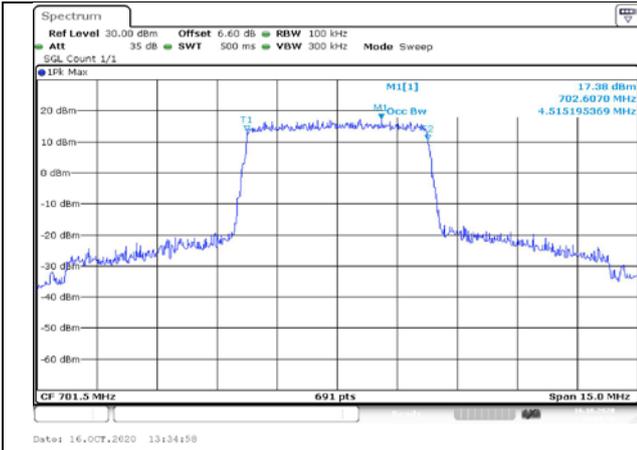


Fig.19

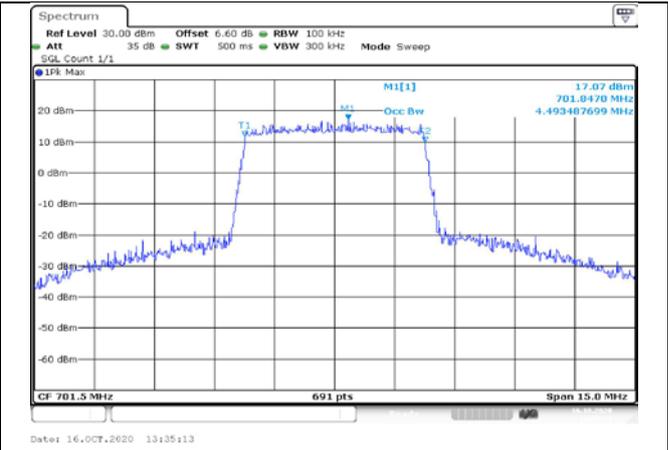


Fig.20

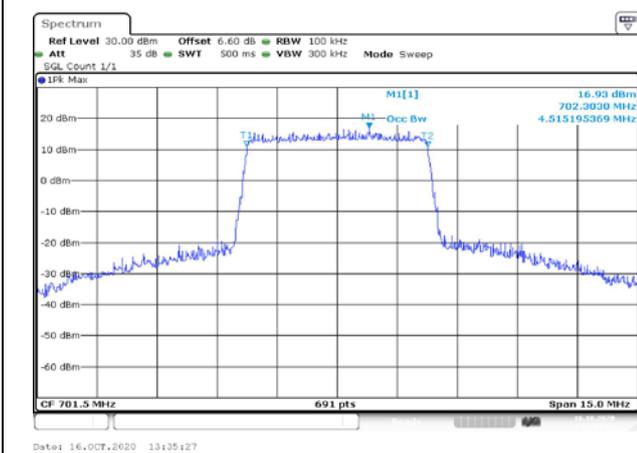


Fig.21

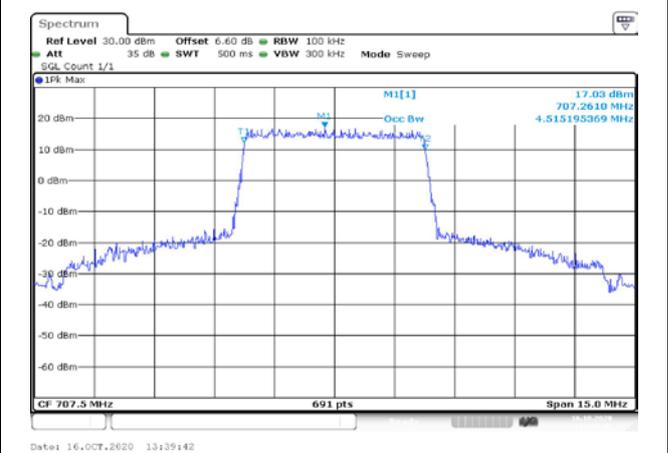


Fig.22

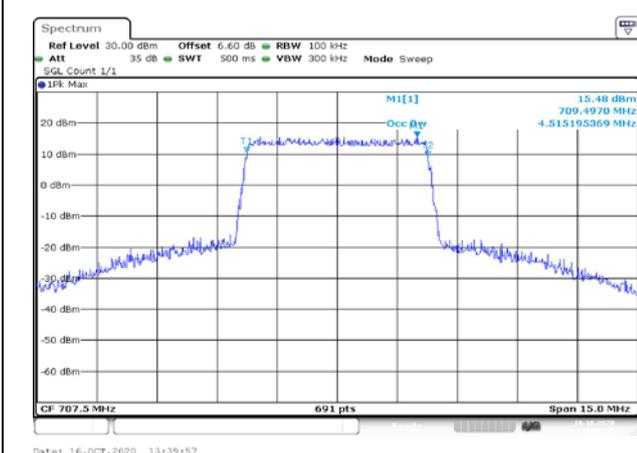


Fig.23

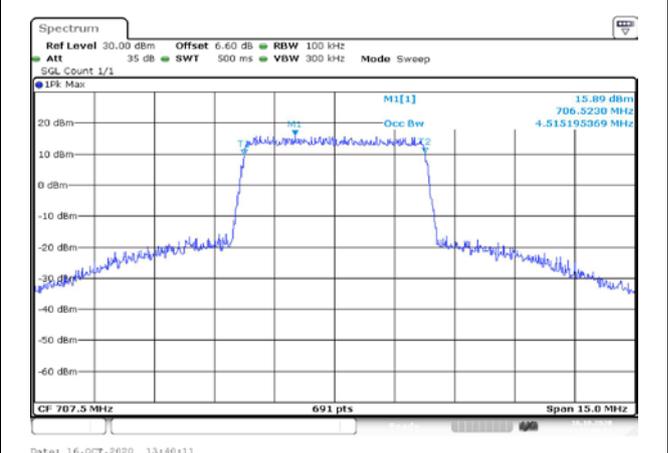
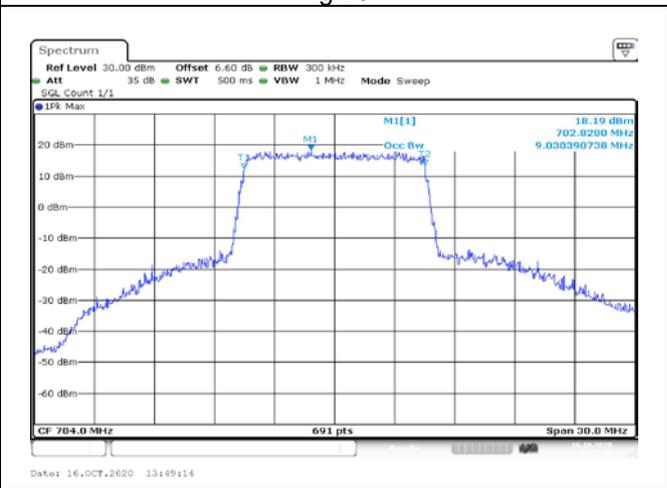
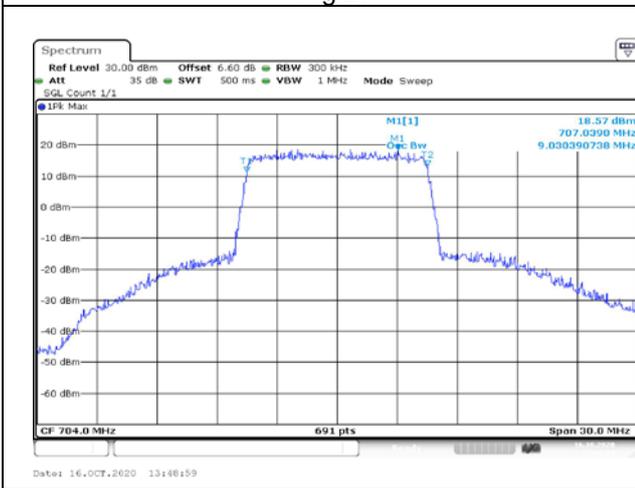
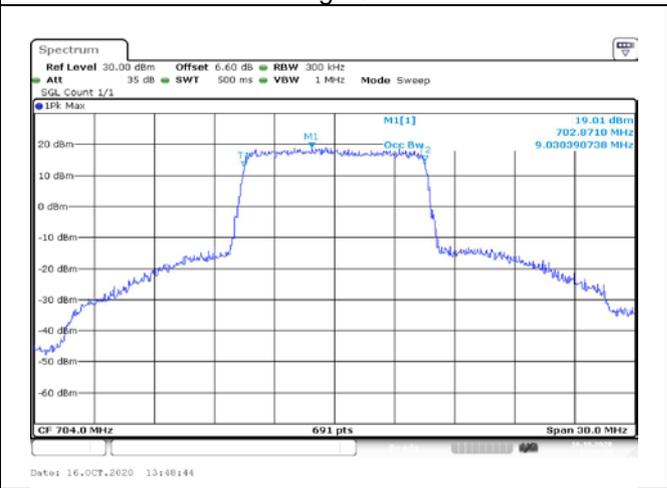
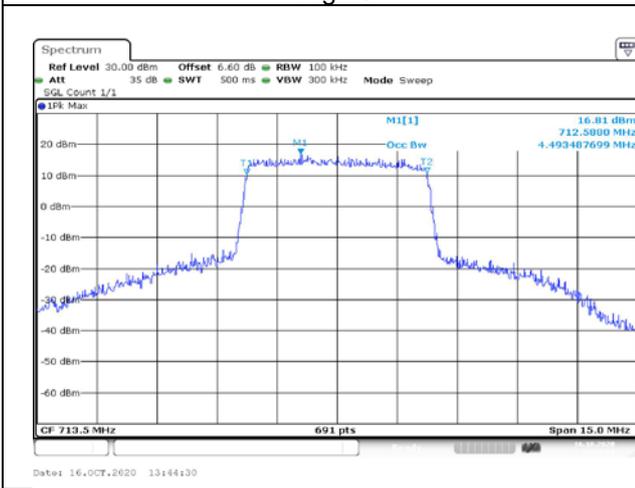
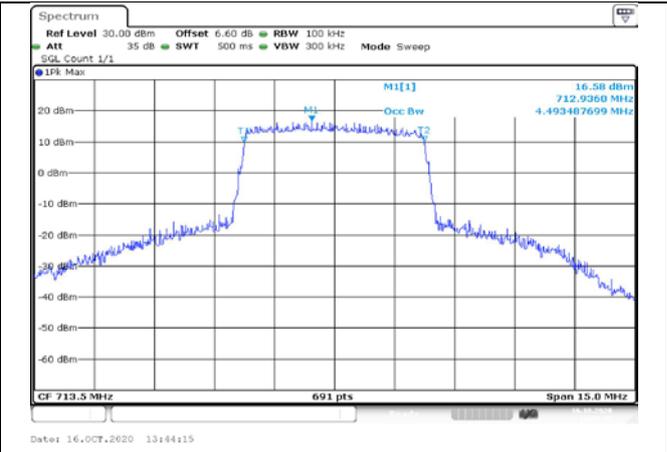
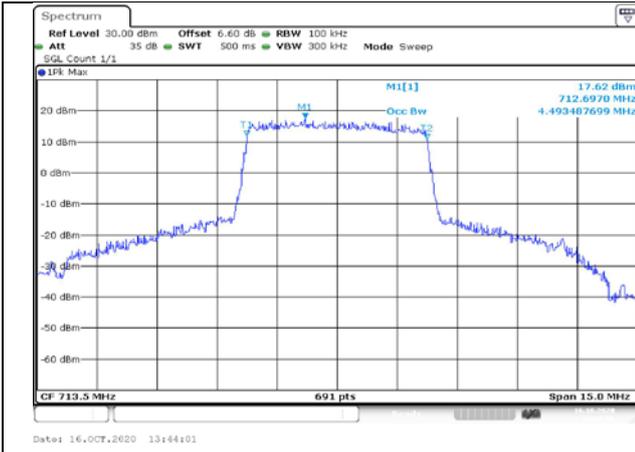


Fig.24



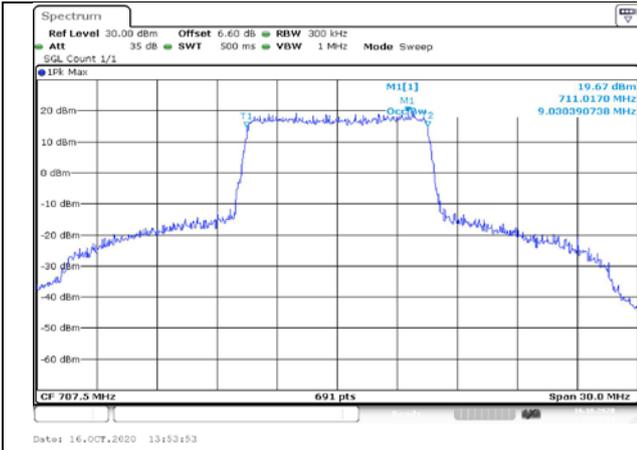


Fig.31

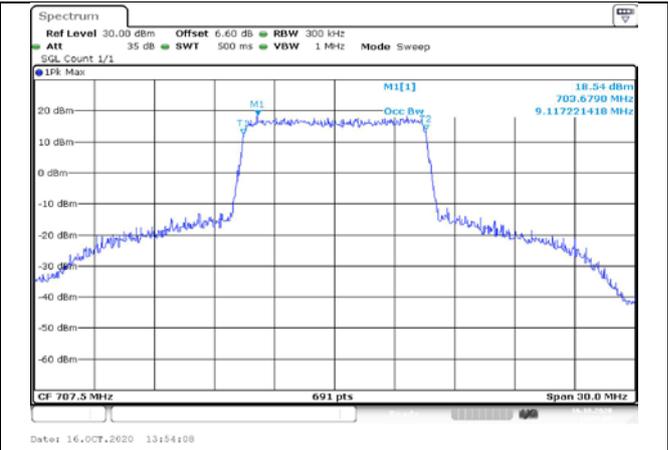


Fig.32

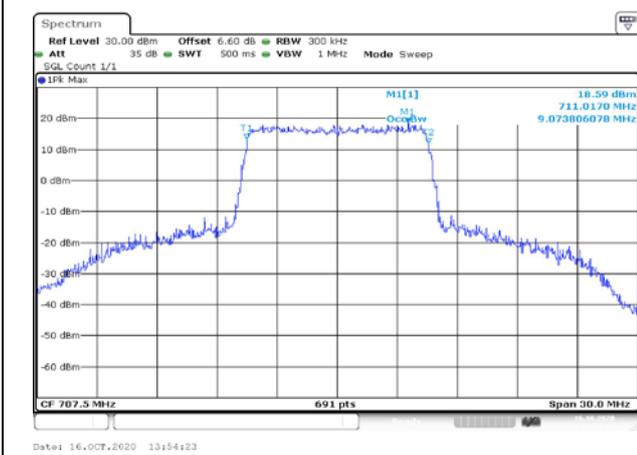


Fig.33

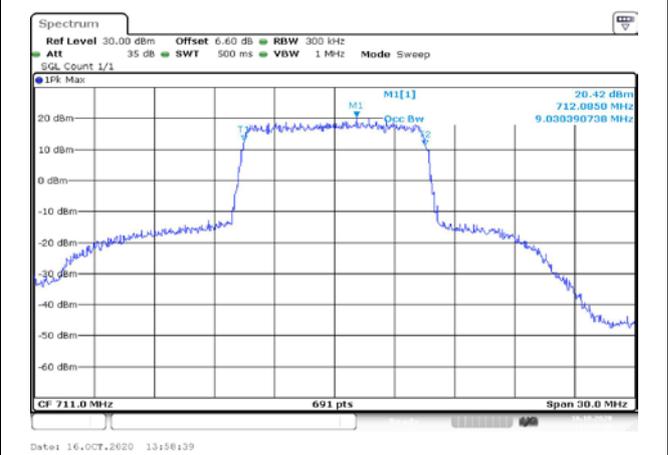


Fig.34

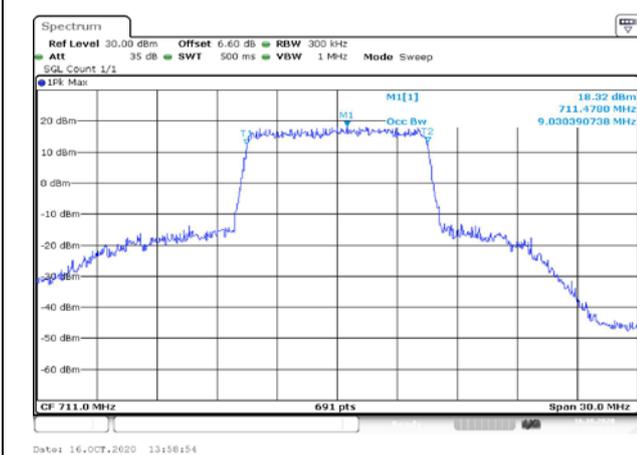


Fig.35

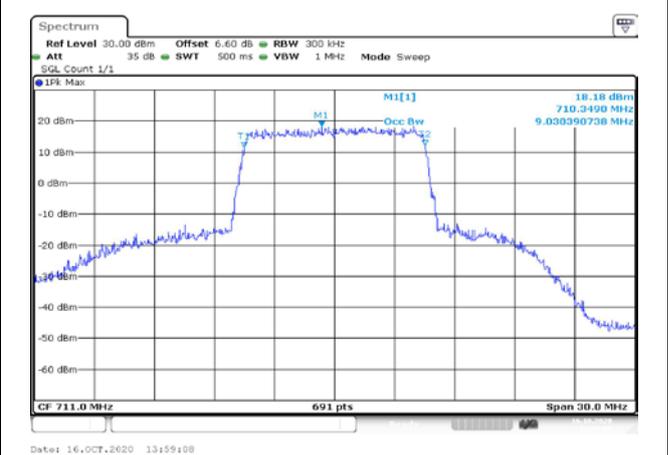


Fig.36

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	
12	699.7	23017	1.4	6	0	1.240	Fig.1	1.228	Fig.2	1.252	Fig.3
	707.5	23095		6	0	1.246	Fig.4	1.234	Fig.5	1.234	Fig.6
	715.3	23173		6	0	1.246	Fig.7	1.240	Fig.8	1.240	Fig.9
	700.5	23025	3	15	0	3.061	Fig.10	3.061	Fig.11	3.074	Fig.12
	707.5	23095		15	0	3.061	Fig.13	3.087	Fig.14	3.087	Fig.15
	714.5	23165		15	0	3.087	Fig.16	3.035	Fig.17	3.074	Fig.18
	701.5	23035	5	25	0	4.949	Fig.19	4.949	Fig.20	4.949	Fig.21
	707.5	23095		25	0	4.928	Fig.22	4.971	Fig.23	4.993	Fig.24
	713.5	23155		25	0	4.971	Fig.25	4.949	Fig.26	4.928	Fig.27
	704	23060	10	50	0	10.072	Fig.28	9.986	Fig.29	9.986	Fig.30
	707.5	23095		50	0	10.072	Fig.31	10.029	Fig.32	10.029	Fig.33
	711	23130		50	0	9.986	Fig.34	10.029	Fig.35	10.029	Fig.36

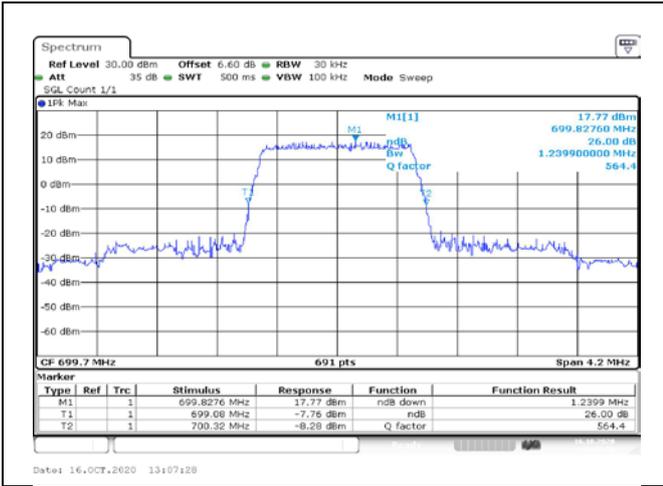


Fig.1

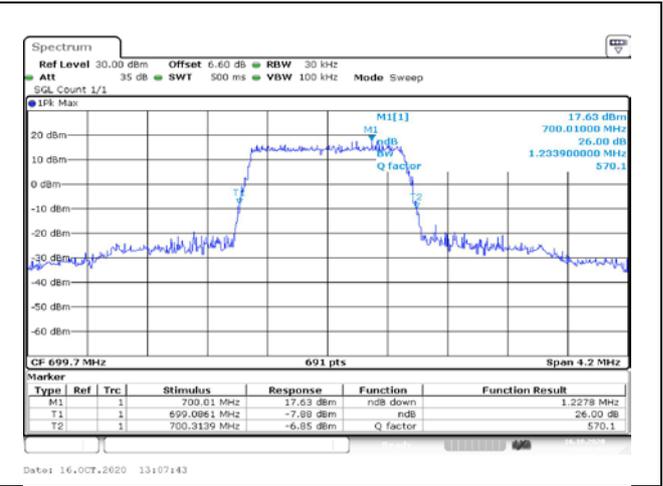


Fig.2

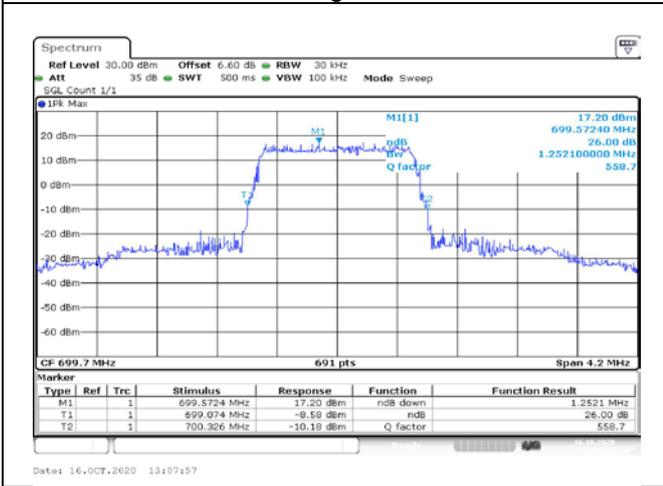


Fig.3

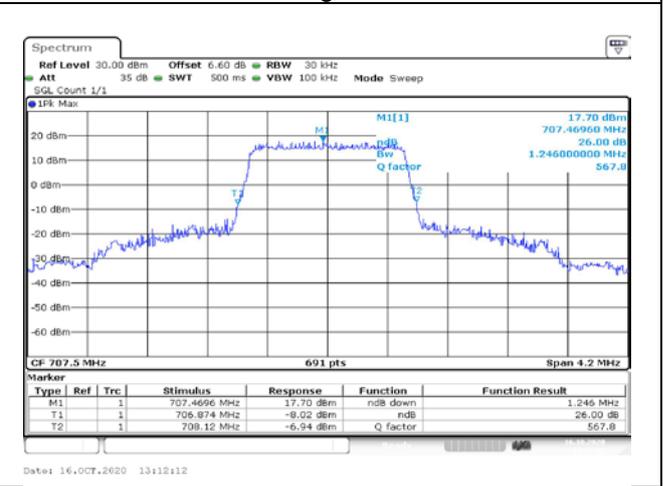


Fig.4

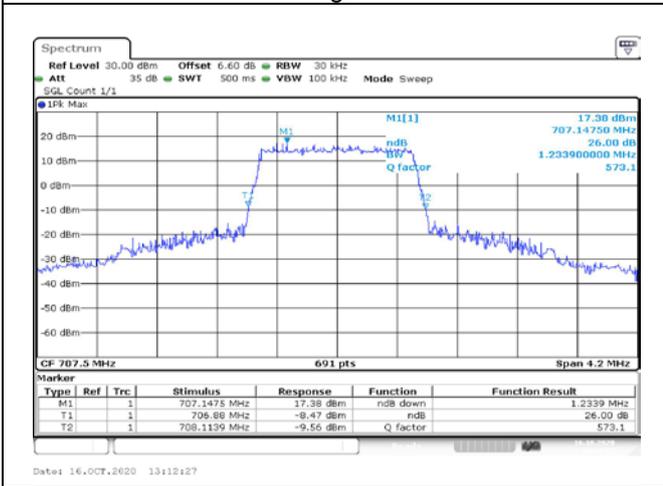


Fig.5

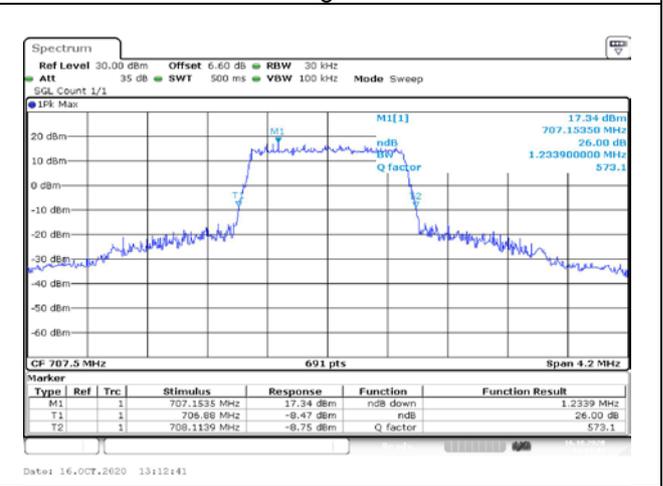


Fig.6



Fig.7

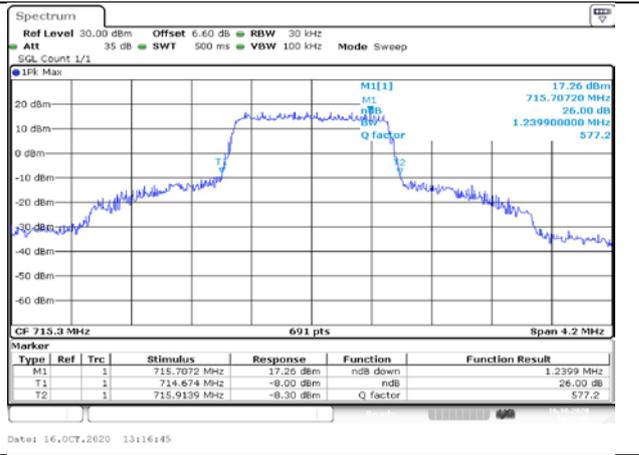


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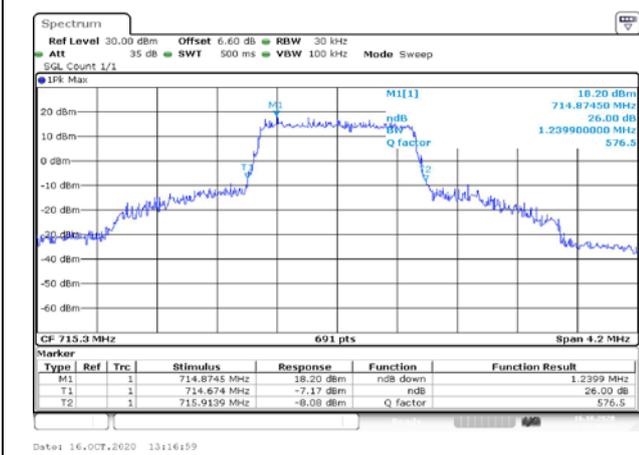


Fig.9

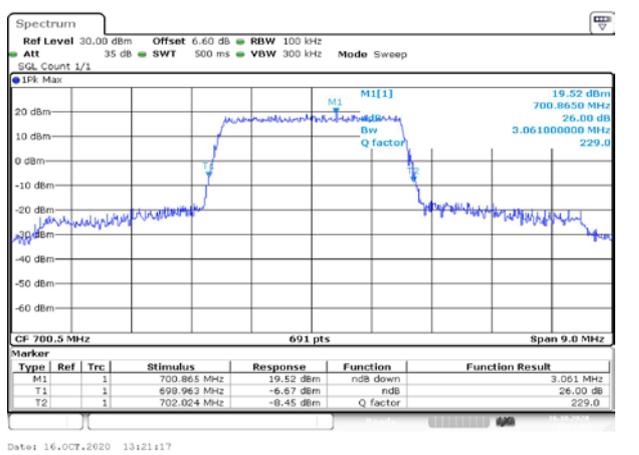


Fig.10

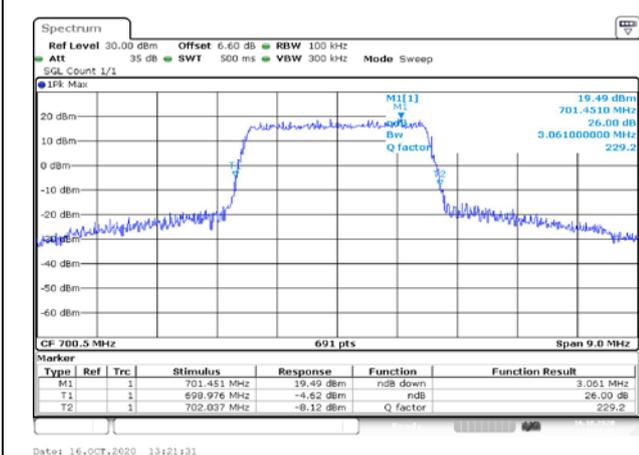


Fig.11

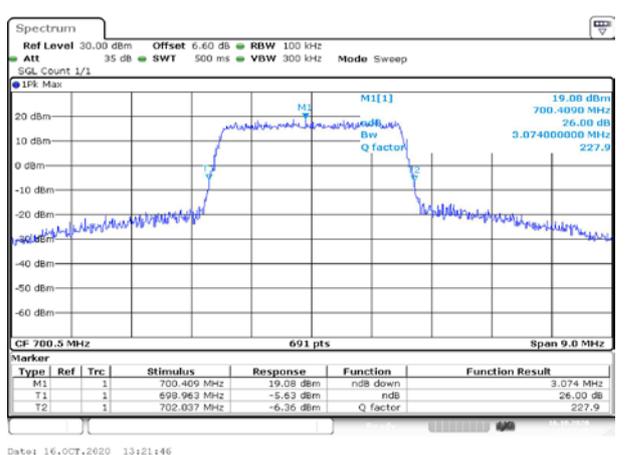


Fig.12

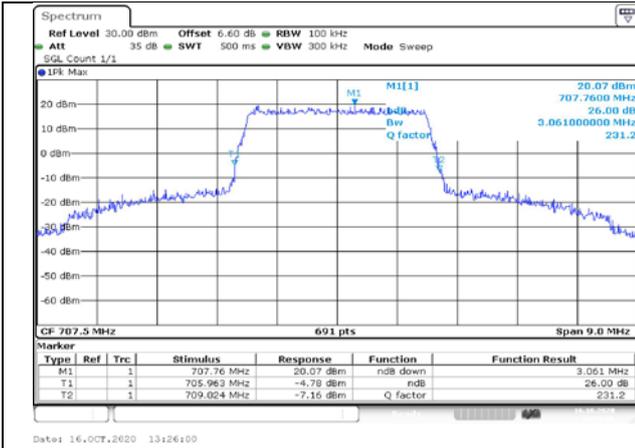


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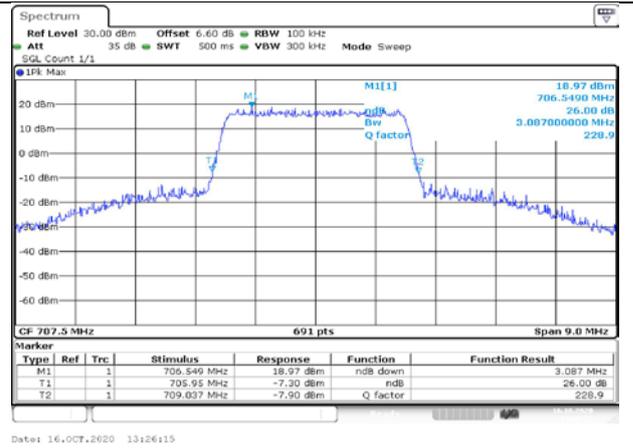


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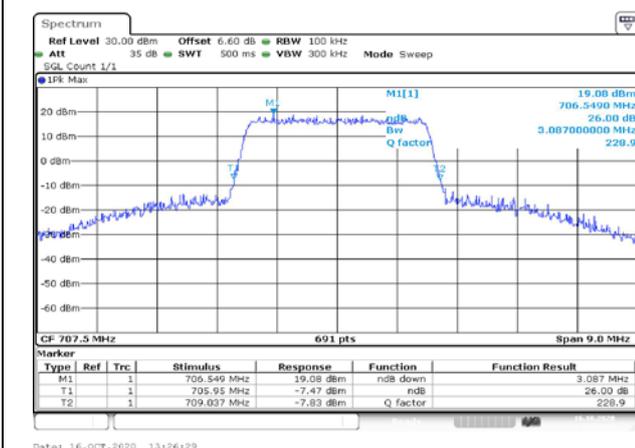


Fig.15

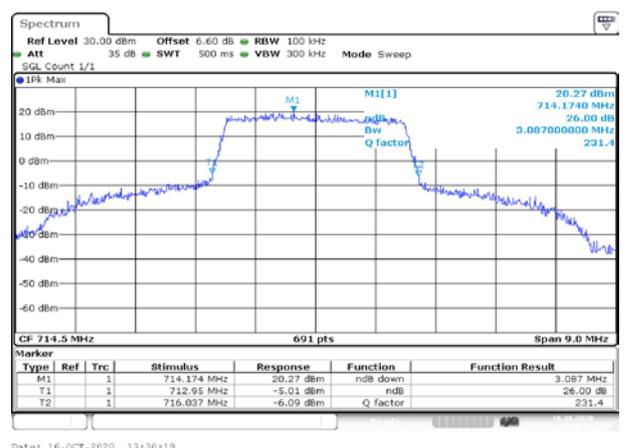


Fig.16

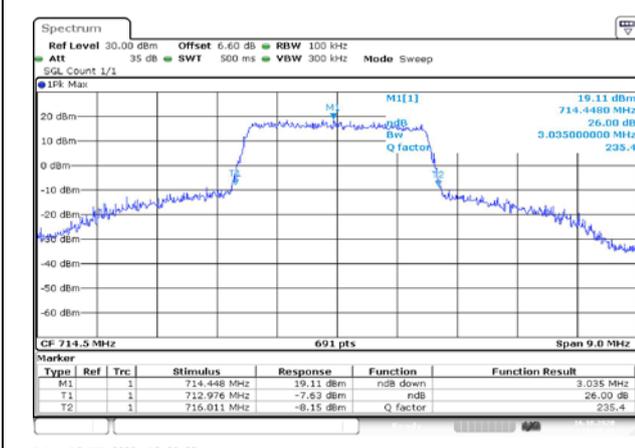


Fig.17

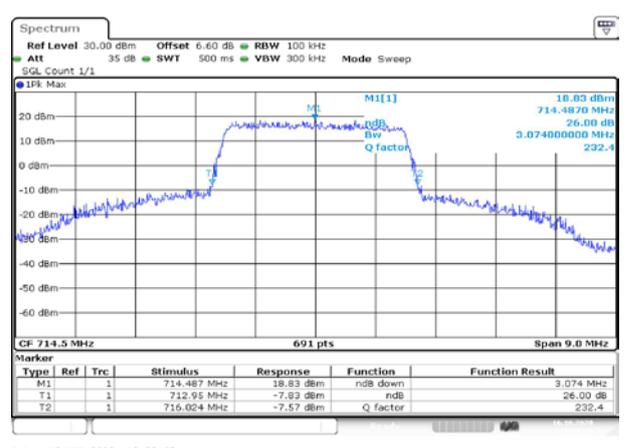


Fig.18

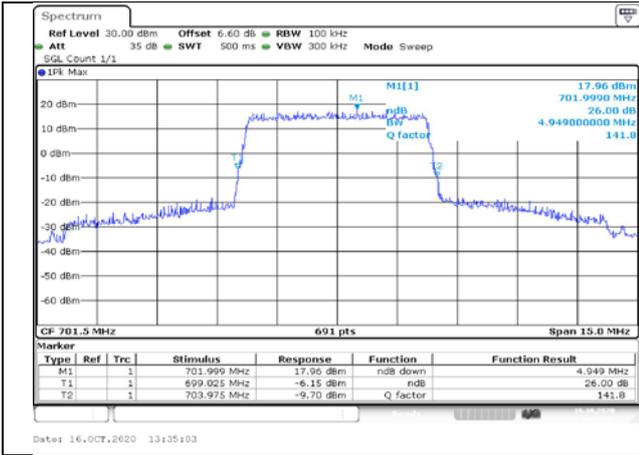


Fig.19

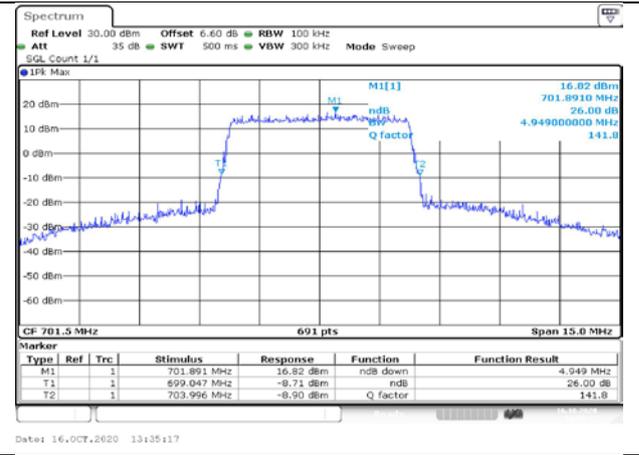


Fig.20

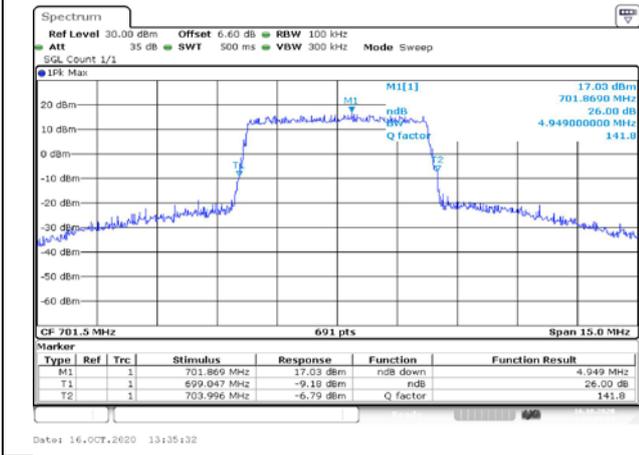


Fig.21

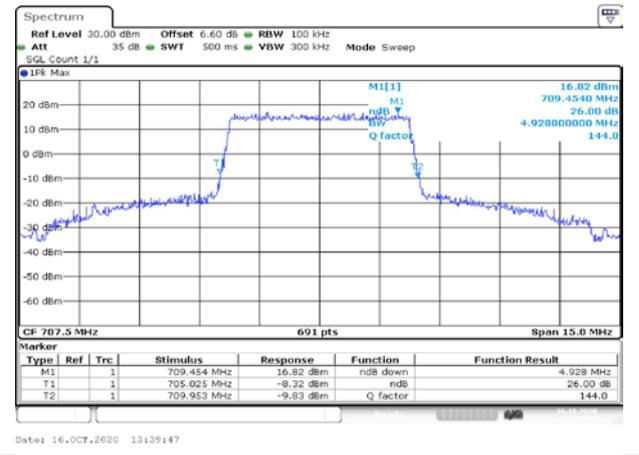


Fig.22

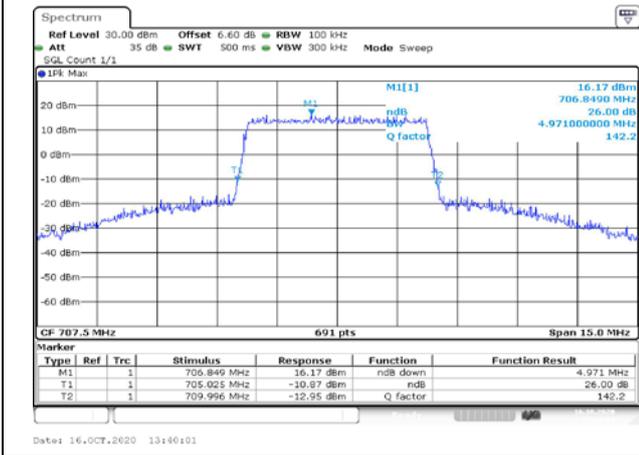


Fig.23

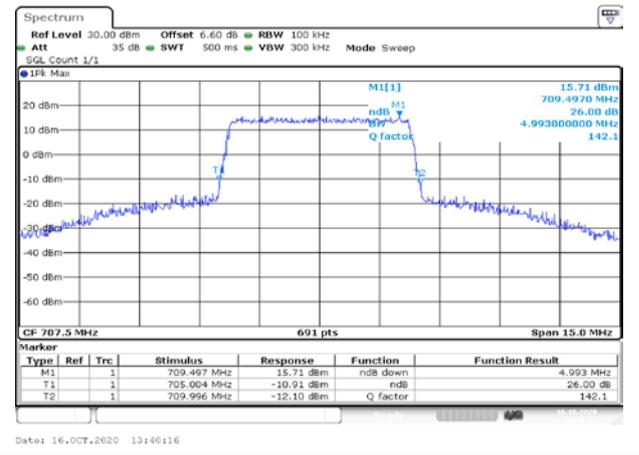


Fig.24

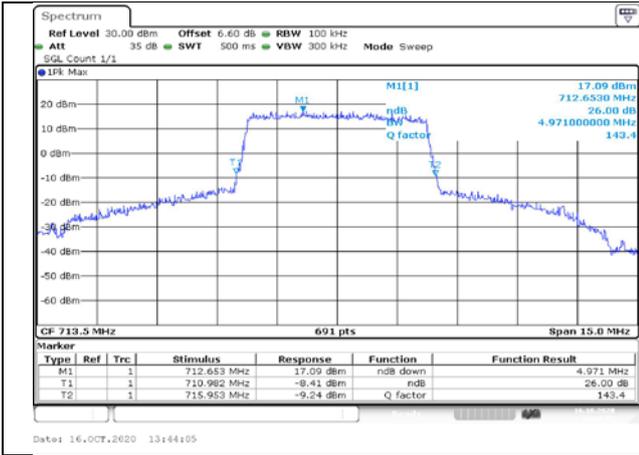


Fig.25

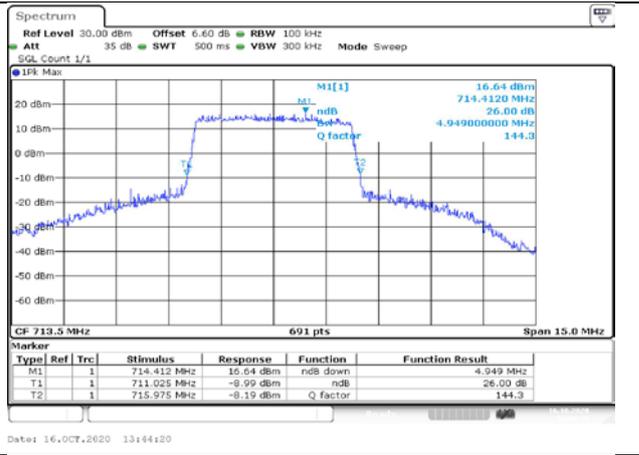


Fig.26

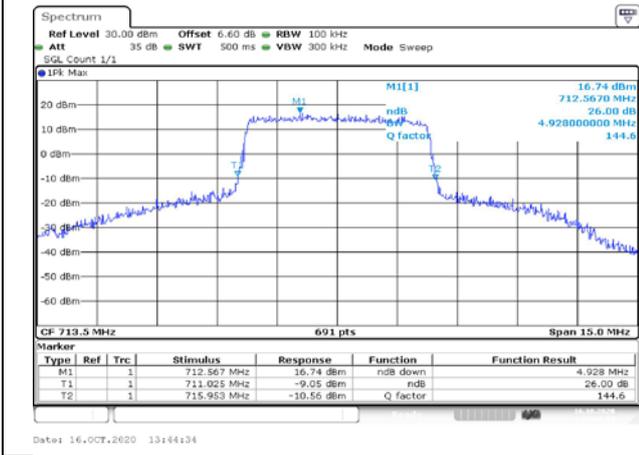


Fig.27

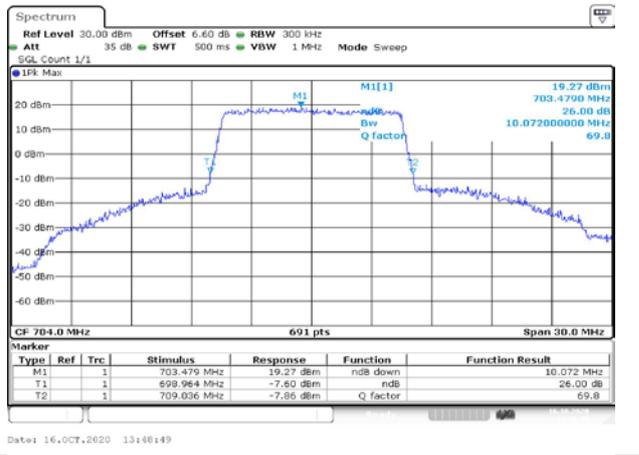


Fig.28



Fig.29

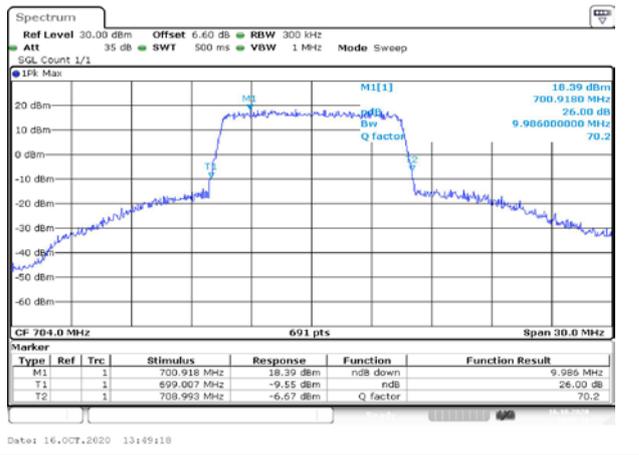


Fig.30



Fig.31

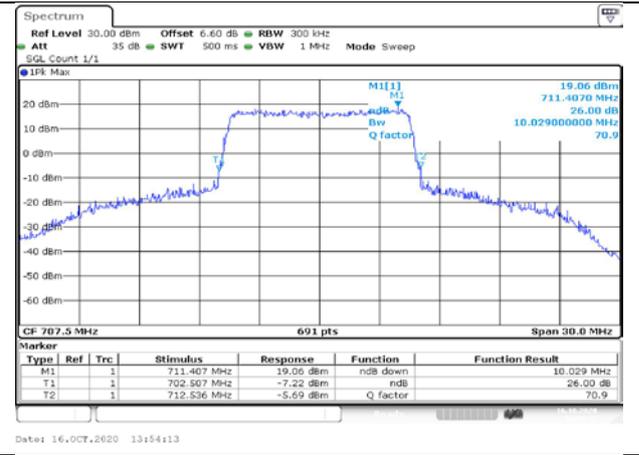


Fig.32

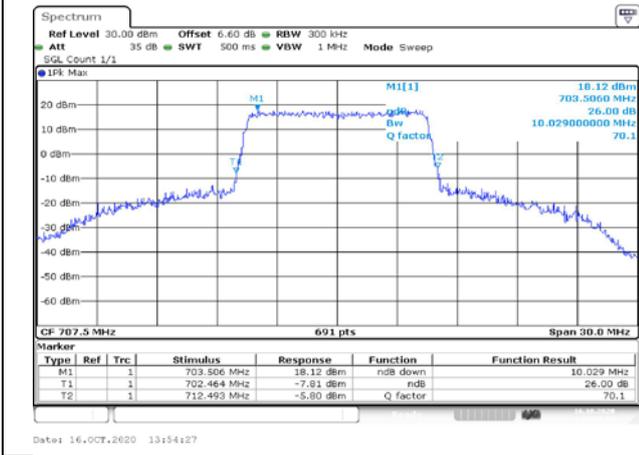


Fig.33

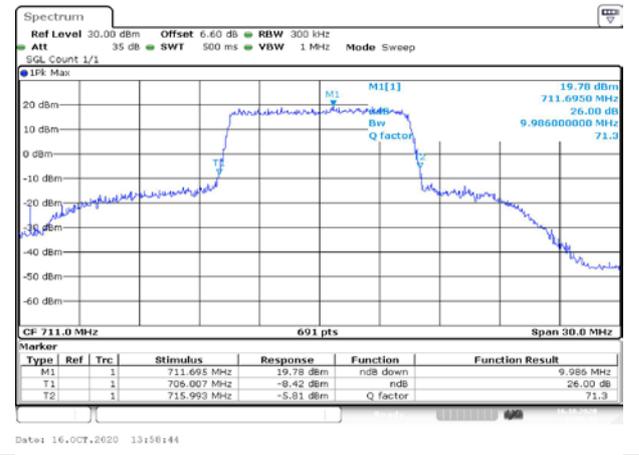


Fig.34

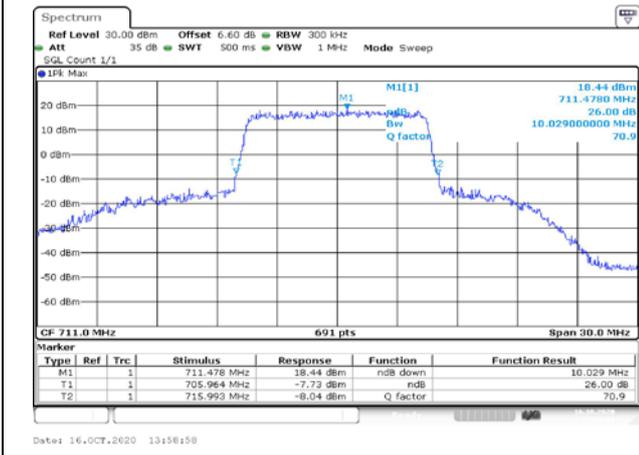


Fig.35

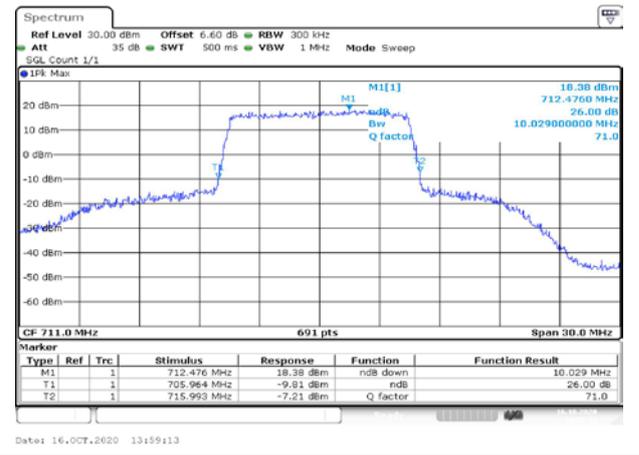


Fig.36

Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
12	699.7	23017	1.4	1	5	Fig.1	Fig.2	Fig.3
	699.7	23017		6	0	Fig.4	Fig.5	Fig.6
	707.5	23095		1	5	Fig.7	Fig.8	Fig.9
	707.5	23095		6	0	Fig.10	Fig.11	Fig.12
	715.3	23173		1	5	Fig.13	Fig.14	Fig.15
	715.3	23173		6	0	Fig.16	Fig.17	Fig.18
	700.5	23025	3	1	14	Fig.19	Fig.20	Fig.21
	700.5	23025		15	0	Fig.22	Fig.23	Fig.24
	707.5	23095		1	14	Fig.25	Fig.26	Fig.27
	707.5	23095		15	0	Fig.28	Fig.29	Fig.30
	714.5	23165		1	14	Fig.31	Fig.32	Fig.33
	714.5	23165		15	0	Fig.34	Fig.35	Fig.36
	701.5	23035	5	1	24	Fig.37	Fig.38	Fig.39
	701.5	23035		25	0	Fig.40	Fig.41	Fig.42
	707.5	23095		1	24	Fig.43	Fig.44	Fig.45
	707.5	23095		25	0	Fig.46	Fig.47	Fig.48
	713.5	23155		1	24	Fig.49	Fig.50	Fig.51
	713.5	23155		25	0	Fig.52	Fig.53	Fig.54
	704	23060	10	1	49	Fig.55	Fig.56	Fig.57
	704	23060		50	0	Fig.58	Fig.59	Fig.60
707.5	23095	1		49	Fig.61	Fig.62	Fig.63	
707.5	23095	50		0	Fig.64	Fig.65	Fig.66	
711	23130	1		49	Fig.67	Fig.68	Fig.69	
711	23130	50		0	Fig.70	Fig.71	Fig.72	

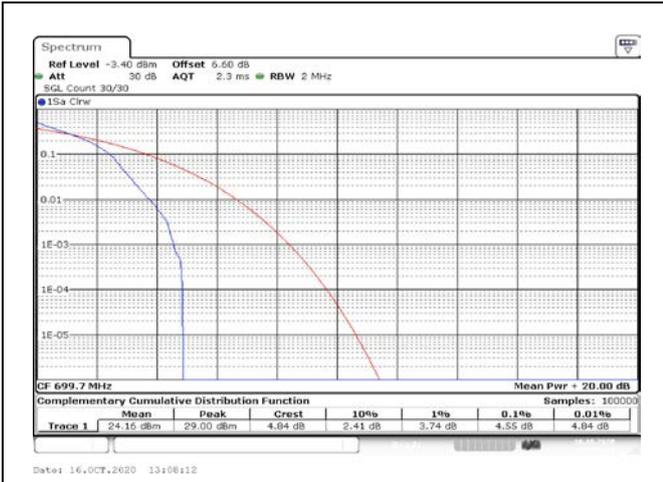


Fig.1

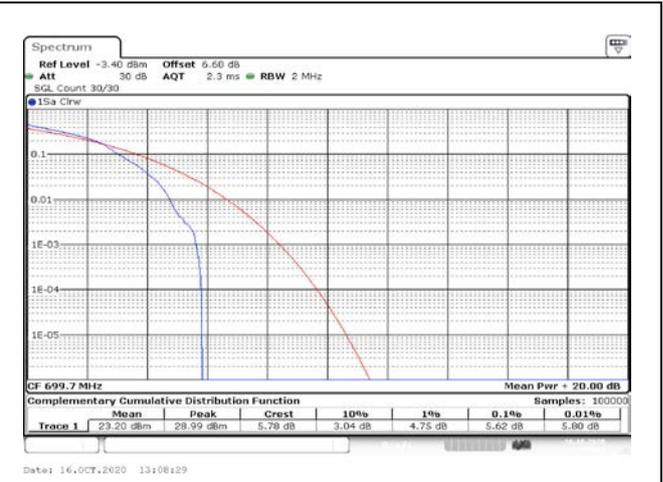


Fig.2

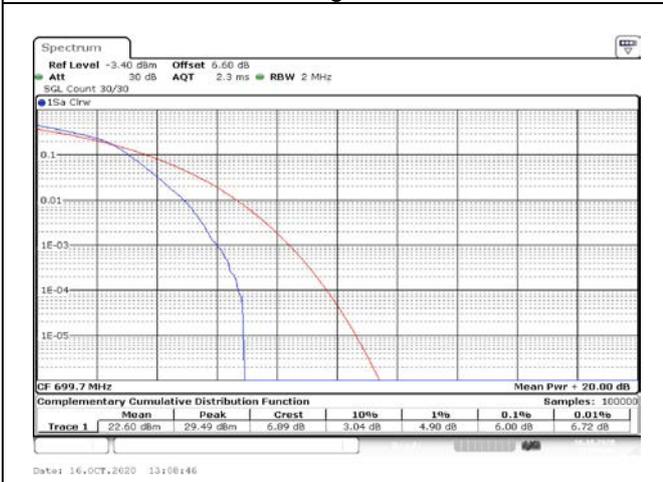


Fig.3

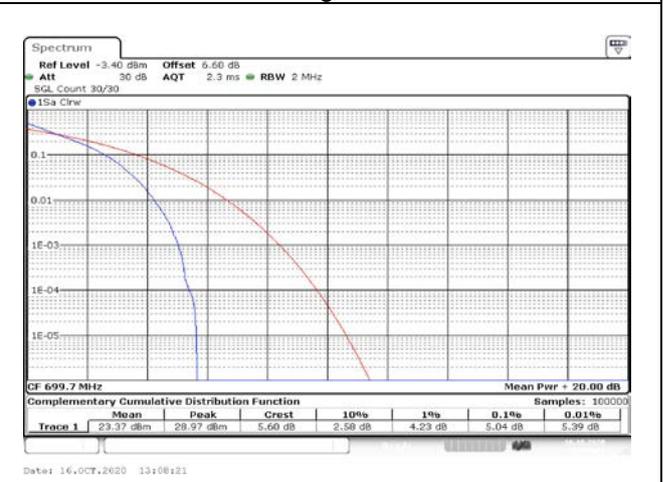


Fig.4

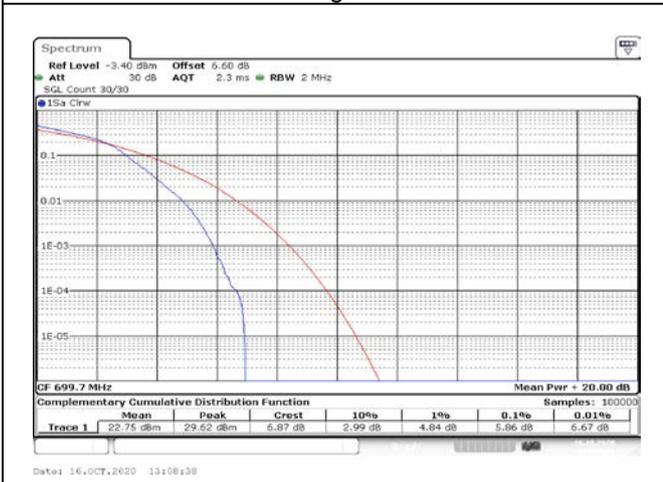


Fig.5

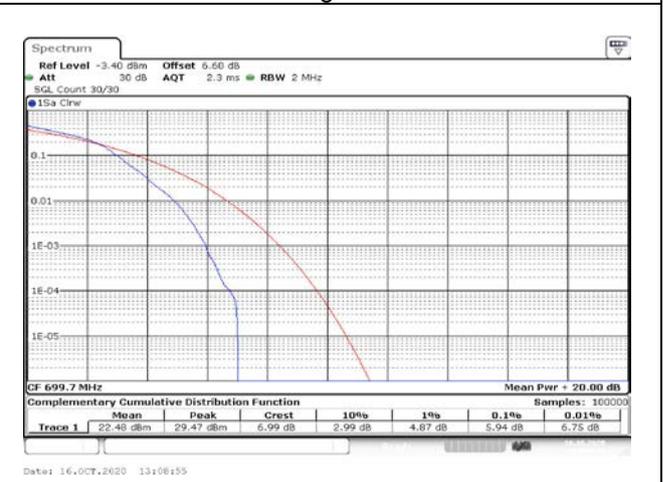


Fig.6



Fig.7

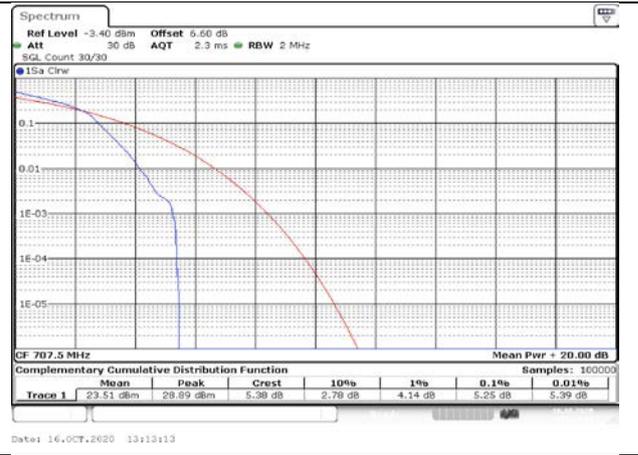


Fig.8

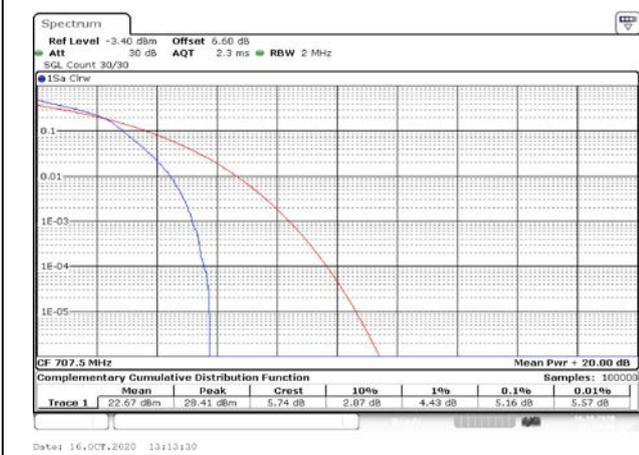


Fig.9

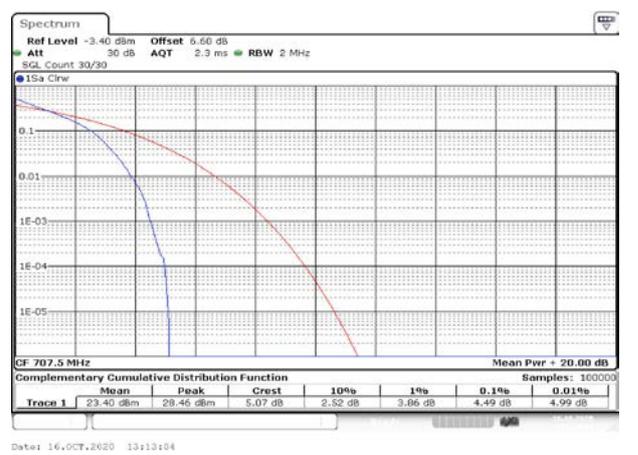


Fig.10

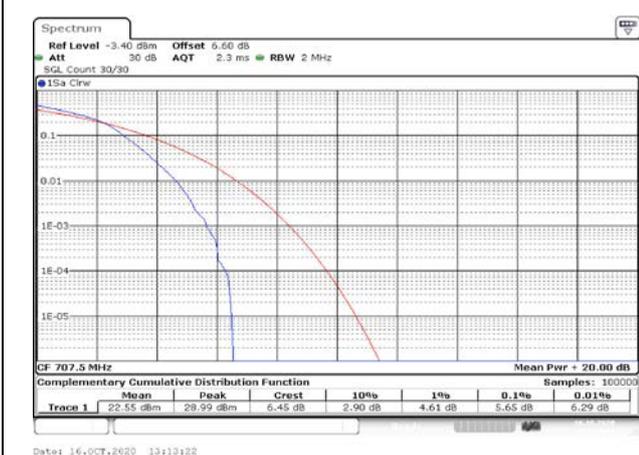


Fig.11

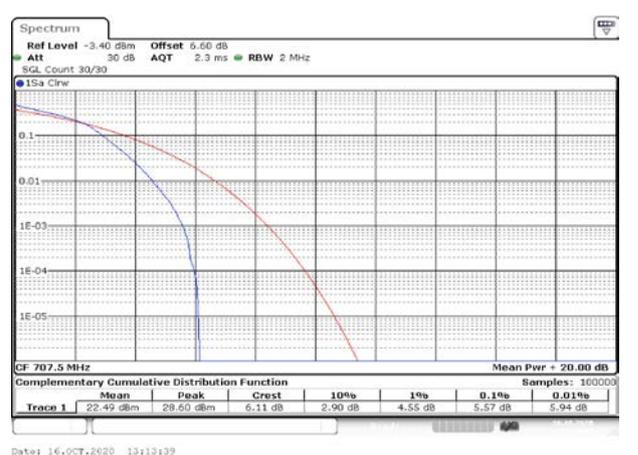


Fig.12



Fig.13



Fig.14

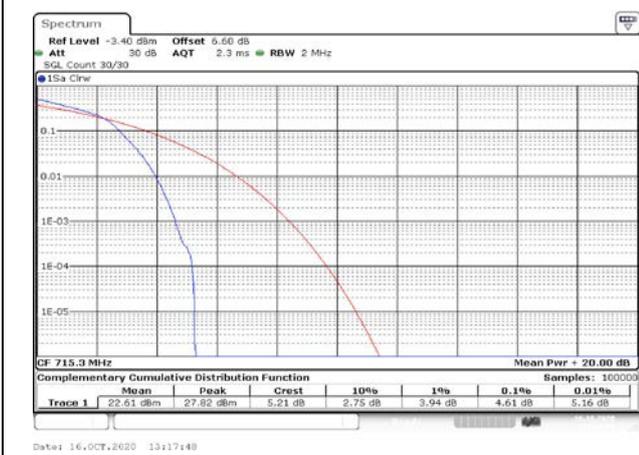


Fig.15

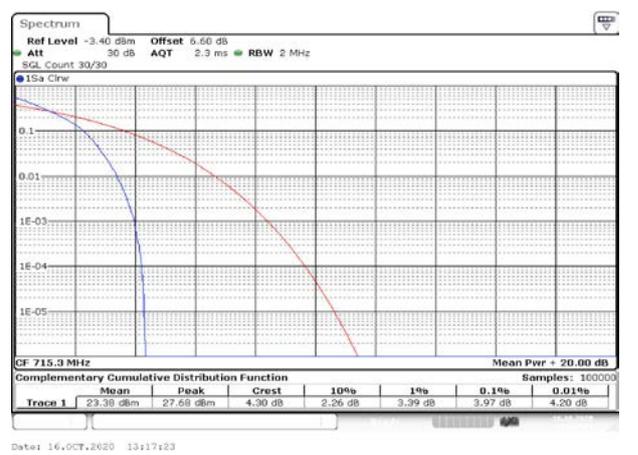


Fig.16

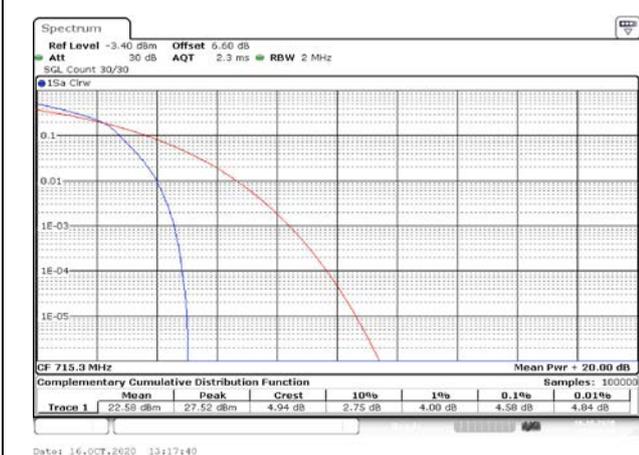


Fig.17

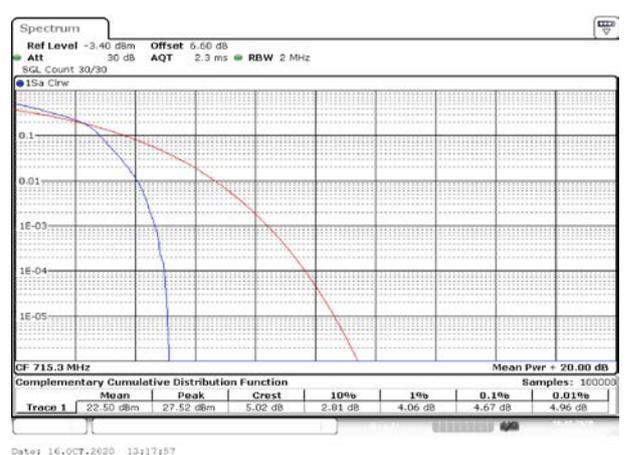


Fig.18