

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3675MHz)  
FL=3665.71MHz, FH=3695.29MHz**

Temperature (°C)	Power Supplied (VDC)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
		2	64QAM	0.68	3665.71	3695.29	Pass		
			QPSK	-3.97	3665.71	3695.29	Pass		
			16QAM	-3.32	3665.71	3695.29	Pass		
		3	64QAM	1.31	3665.71	3695.29	Pass		
			QPSK	2.18	3665.71	3695.29	Pass		
			16QAM	-3.47	3665.71	3695.29	Pass		
		4	64QAM	3.34	3665.71	3695.29	Pass		
			QPSK	2.77	3665.71	3695.29	Pass		
			16QAM	-0.51	3665.71	3695.29	Pass		
		5	64QAM	-1.54	3665.71	3695.29	Pass		
			QPSK	-2.01	3665.71	3695.29	Pass		
			16QAM	1.26	3665.71	3695.29	Pass		
		6	64QAM	-3.94	3665.71	3695.29	Pass		
			QPSK	0.24	3665.71	3695.29	Pass		
			16QAM	-2.35	3665.71	3695.29	Pass		
		7	64QAM	1.81	3665.71	3695.29	Pass		
			QPSK	-1.35	3665.71	3695.29	Pass		
			16QAM	1.08	3665.71	3695.29	Pass		
		50	-48	0	64QAM	3.63	3665.71	3695.29	Pass
					QPSK	-2.81	3665.71	3695.29	Pass
					16QAM	-1.23	3665.71	3695.29	Pass
				1	64QAM	-3.72	3665.71	3695.29	Pass
					QPSK	1.96	3665.71	3695.29	Pass
					16QAM	-1.97	3665.71	3695.29	Pass
				2	64QAM	-1.02	3665.71	3695.29	Pass
					QPSK	-2.20	3665.71	3695.29	Pass
					16QAM	1.69	3665.71	3695.29	Pass
3	64QAM			3.30	3665.71	3695.29	Pass		
	QPSK			3.44	3665.71	3695.29	Pass		
	16QAM			0.68	3665.71	3695.29	Pass		
4	64QAM			-3.22	3665.71	3695.29	Pass		
	QPSK			-1.50	3665.71	3695.29	Pass		
	16QAM			-1.46	3665.71	3695.29	Pass		
5	64QAM			-2.85	3665.71	3695.29	Pass		
	QPSK			-2.20	3665.71	3695.29	Pass		
					16QAM	1.07	3665.71	3695.29	Pass

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3675MHz)  
FL=3665.71MHz, FH=3695.29MHz**

Temperature (°C)	Power Supplied (VDC)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
		6	64QAM	-1.18	3665.71	3695.29	Pass		
			QPSK	2.77	3665.71	3695.29	Pass		
			16QAM	-0.51	3665.71	3695.29	Pass		
		7		64QAM	-1.54	3665.71	3695.29	Pass	
				QPSK	-0.53	3665.71	3695.29	Pass	
				16QAM	-0.08	3665.71	3695.29	Pass	
		55	-48	0	64QAM	-0.67	3665.71	3695.29	Pass
					QPSK	-4.00	3665.71	3695.29	Pass
					16QAM	2.04	3665.71	3695.29	Pass
1				64QAM	-1.34	3665.71	3695.29	Pass	
				QPSK	-0.44	3665.71	3695.29	Pass	
				16QAM	-0.52	3665.71	3695.29	Pass	
2				64QAM	-0.71	3665.71	3695.29	Pass	
				QPSK	-2.27	3665.71	3695.29	Pass	
				16QAM	-2.82	3665.71	3695.29	Pass	
3				64QAM	-0.85	3665.71	3695.29	Pass	
				QPSK	-3.95	3665.71	3695.29	Pass	
				16QAM	0.80	3665.71	3695.29	Pass	
4				64QAM	0.20	3665.71	3695.29	Pass	
				QPSK	2.68	3665.71	3695.29	Pass	
				16QAM	-1.01	3665.71	3695.29	Pass	
5				64QAM	-1.50	3665.71	3695.29	Pass	
				QPSK	1.78	3665.71	3695.29	Pass	
				16QAM	-1.16	3665.71	3695.29	Pass	
6				64QAM	1.36	3665.71	3695.29	Pass	
				QPSK	-0.61	3665.71	3695.29	Pass	
				16QAM	0.74	3665.71	3695.29	Pass	
7				64QAM	0.72	3665.71	3695.29	Pass	
				QPSK	-0.53	3665.71	3695.29	Pass	
				16QAM	-0.08	3665.71	3695.29	Pass	
			64QAM	-0.67	3665.71	3695.29	Pass		

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

Temperature (°C)	Power Supplied (VDC)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
-40	-48	0	QPSK	3.45	3680.76	3690.25	Pass		
			16QAM	0.94	3680.76	3690.25	Pass		
			64QAM	1.99	3680.76	3690.25	Pass		
		1	QPSK	-1.08	3680.76	3690.25	Pass		
			16QAM	0.80	3680.76	3690.25	Pass		
			64QAM	-2.75	3680.76	3690.25	Pass		
		2	QPSK	3.25	3680.76	3690.25	Pass		
			16QAM	-1.45	3680.76	3690.25	Pass		
			64QAM	2.95	3680.76	3690.25	Pass		
		3	QPSK	-1.29	3680.76	3690.25	Pass		
			16QAM	2.70	3680.76	3690.25	Pass		
			64QAM	-2.48	3680.76	3690.25	Pass		
		4	QPSK	-0.74	3680.76	3690.25	Pass		
			16QAM	0.42	3680.76	3690.25	Pass		
			64QAM	-2.53	3680.76	3690.25	Pass		
		5	QPSK	0.64	3680.76	3690.25	Pass		
			16QAM	0.62	3680.76	3690.25	Pass		
			64QAM	0.80	3680.76	3690.25	Pass		
		6	QPSK	0.91	3680.76	3690.25	Pass		
			16QAM	3.55	3680.76	3690.25	Pass		
			64QAM	3.12	3680.76	3690.25	Pass		
		7	QPSK	-2.96	3680.76	3690.25	Pass		
			16QAM	3.08	3680.76	3690.25	Pass		
			64QAM	-1.50	3680.76	3690.25	Pass		
		-30	-48	0	QPSK	4.00	3680.76	3690.25	Pass
					16QAM	-0.63	3680.76	3690.25	Pass
					64QAM	-3.40	3680.76	3690.25	Pass
1	QPSK			-3.56	3680.76	3690.25	Pass		
	16QAM			3.27	3680.76	3690.25	Pass		
	64QAM			-2.18	3680.76	3690.25	Pass		
2	QPSK			3.45	3680.76	3690.25	Pass		
	16QAM			0.94	3680.76	3690.25	Pass		
	64QAM			1.99	3680.76	3690.25	Pass		
3	QPSK			-0.55	3680.76	3690.25	Pass		
	16QAM			-2.78	3680.76	3690.25	Pass		
	64QAM			-3.46	3680.76	3690.25	Pass		

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

Temperature (°C)	Power Supplied (VDC)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
		4	QPSK	-3.06	3680.76	3690.25	Pass		
			16QAM	-3.31	3680.76	3690.25	Pass		
			64QAM	-1.05	3680.76	3690.25	Pass		
		5	QPSK	2.69	3680.76	3690.25	Pass		
			16QAM	0.81	3680.76	3690.25	Pass		
			64QAM	3.27	3680.76	3690.25	Pass		
		6	QPSK	-1.34	3680.76	3690.25	Pass		
			16QAM	3.96	3680.76	3690.25	Pass		
			64QAM	1.19	3680.76	3690.25	Pass		
		7	QPSK	3.96	3680.76	3690.25	Pass		
			16QAM	2.27	3680.76	3690.25	Pass		
			64QAM	-2.90	3680.76	3690.25	Pass		
		-20	-48	0	QPSK	-1.81	3680.76	3690.25	Pass
					16QAM	-3.34	3680.76	3690.25	Pass
					64QAM	-0.85	3680.76	3690.25	Pass
				1	QPSK	-3.20	3680.76	3690.25	Pass
					16QAM	-3.11	3680.76	3690.25	Pass
					64QAM	0.87	3680.76	3690.25	Pass
				2	QPSK	-1.93	3680.76	3690.25	Pass
					16QAM	2.15	3680.76	3690.25	Pass
					64QAM	-0.56	3680.76	3690.25	Pass
				3	QPSK	3.66	3680.76	3690.25	Pass
					16QAM	2.88	3680.76	3690.25	Pass
					64QAM	-2.98	3680.76	3690.25	Pass
4	QPSK			-3.44	3680.76	3690.25	Pass		
	16QAM			-2.29	3680.76	3690.25	Pass		
	64QAM			-0.89	3680.76	3690.25	Pass		
5	QPSK			-0.55	3680.76	3690.25	Pass		
	16QAM			-2.78	3680.76	3690.25	Pass		
	64QAM			-3.46	3680.76	3690.25	Pass		
6	QPSK			1.06	3680.76	3690.25	Pass		
	16QAM			0.44	3680.76	3690.25	Pass		
	64QAM			-2.68	3680.76	3690.25	Pass		
7	QPSK			-0.06	3680.76	3690.25	Pass		
	16QAM			2.31	3680.76	3690.25	Pass		
	64QAM			-2.94	3680.76	3690.25	Pass		

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

Temperature (°C)	Power Supplied (VDC)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
-10	-48	0	QPSK	1.06	3680.76	3690.25	Pass		
			16QAM	1.56	3680.76	3690.25	Pass		
			64QAM	-3.85	3680.76	3690.25	Pass		
		1	QPSK	1.83	3680.76	3690.25	Pass		
			16QAM	-0.94	3680.76	3690.25	Pass		
			64QAM	-0.02	3680.76	3690.25	Pass		
		2	QPSK	-1.66	3680.76	3690.25	Pass		
			16QAM	-3.89	3680.76	3690.25	Pass		
			64QAM	1.50	3680.76	3690.25	Pass		
		3	QPSK	-1.47	3680.76	3690.25	Pass		
			16QAM	-3.83	3680.76	3690.25	Pass		
			64QAM	-0.48	3680.76	3690.25	Pass		
		4	QPSK	-1.43	3680.76	3690.25	Pass		
			16QAM	2.04	3680.76	3690.25	Pass		
			64QAM	0.33	3680.76	3690.25	Pass		
		5	QPSK	3.24	3680.76	3690.25	Pass		
			16QAM	3.96	3680.76	3690.25	Pass		
			64QAM	3.61	3680.76	3690.25	Pass		
		6	QPSK	1.98	3680.76	3690.25	Pass		
			16QAM	-1.99	3680.76	3690.25	Pass		
			64QAM	-0.80	3680.76	3690.25	Pass		
		7	QPSK	3.40	3680.76	3690.25	Pass		
			16QAM	2.73	3680.76	3690.25	Pass		
			64QAM	-1.32	3680.76	3690.25	Pass		
		0	-48	0	QPSK	1.06	3680.76	3690.25	Pass
					16QAM	0.44	3680.76	3690.25	Pass
					64QAM	-2.68	3680.76	3690.25	Pass
1	QPSK			3.93	3680.76	3690.25	Pass		
	16QAM			0.74	3680.76	3690.25	Pass		
	64QAM			-0.84	3680.76	3690.25	Pass		
2	QPSK			-3.50	3680.76	3690.25	Pass		
	16QAM			2.70	3680.76	3690.25	Pass		
	64QAM			-3.20	3680.76	3690.25	Pass		
3	QPSK			-1.37	3680.76	3690.25	Pass		
	16QAM			-1.79	3680.76	3690.25	Pass		
	64QAM			-1.31	3680.76	3690.25	Pass		

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

Temperature (°C)	Power Supplied (VDC)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
		4	QPSK	-2.73	3680.76	3690.25	Pass		
			16QAM	1.86	3680.76	3690.25	Pass		
			64QAM	-2.60	3680.76	3690.25	Pass		
		5	QPSK	3.82	3680.76	3690.25	Pass		
			16QAM	2.80	3680.76	3690.25	Pass		
			64QAM	-3.67	3680.76	3690.25	Pass		
		6	QPSK	0.15	3680.76	3690.25	Pass		
			16QAM	1.94	3680.76	3690.25	Pass		
			64QAM	3.69	3680.76	3690.25	Pass		
		7	QPSK	0.80	3680.76	3690.25	Pass		
			16QAM	3.31	3680.76	3690.25	Pass		
			64QAM	0.60	3680.76	3690.25	Pass		
		10	-48	0	QPSK	1.08	3680.76	3690.25	Pass
					16QAM	2.33	3680.76	3690.25	Pass
					64QAM	3.59	3680.76	3690.25	Pass
				1	QPSK	1.71	3680.76	3690.25	Pass
					16QAM	2.63	3680.76	3690.25	Pass
					64QAM	-2.64	3680.76	3690.25	Pass
				2	QPSK	-1.17	3680.76	3690.25	Pass
					16QAM	2.92	3680.76	3690.25	Pass
					64QAM	-3.47	3680.76	3690.25	Pass
				3	QPSK	3.93	3680.76	3690.25	Pass
					16QAM	0.74	3680.76	3690.25	Pass
					64QAM	-0.84	3680.76	3690.25	Pass
4	QPSK			2.34	3680.76	3690.25	Pass		
	16QAM			-3.52	3680.76	3690.25	Pass		
	64QAM			-3.24	3680.76	3690.25	Pass		
5	QPSK			0.29	3680.76	3690.25	Pass		
	16QAM			1.51	3680.76	3690.25	Pass		
	64QAM			-2.77	3680.76	3690.25	Pass		
6	QPSK			2.29	3680.76	3690.25	Pass		
	16QAM			-2.50	3680.76	3690.25	Pass		
	64QAM			-0.63	3680.76	3690.25	Pass		
7	QPSK			0.04	3680.76	3690.25	Pass		
	16QAM			-2.06	3680.76	3690.25	Pass		
	64QAM			2.99	3680.76	3690.25	Pass		

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

Temperature (°C)	Power Supplied (VDC)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
20	-48	0	QPSK	-0.39	3680.76	3690.25	Pass		
			16QAM	-3.83	3680.76	3690.25	Pass		
			64QAM	0.05	3680.76	3690.25	Pass		
		1	QPSK	1.66	3680.76	3690.25	Pass		
			16QAM	1.03	3680.76	3690.25	Pass		
			64QAM	-0.83	3680.76	3690.25	Pass		
		2	QPSK	2.43	3680.76	3690.25	Pass		
			16QAM	-3.13	3680.76	3690.25	Pass		
			64QAM	-3.68	3680.76	3690.25	Pass		
		3	QPSK	1.84	3680.76	3690.25	Pass		
			16QAM	2.42	3680.76	3690.25	Pass		
			64QAM	1.10	3680.76	3690.25	Pass		
		4	QPSK	-3.01	3680.76	3690.25	Pass		
			16QAM	-0.54	3680.76	3690.25	Pass		
			64QAM	1.77	3680.76	3690.25	Pass		
		5	QPSK	-0.92	3680.76	3690.25	Pass		
			16QAM	1.44	3680.76	3690.25	Pass		
			64QAM	3.10	3680.76	3690.25	Pass		
		6	QPSK	2.34	3680.76	3690.25	Pass		
			16QAM	-3.52	3680.76	3690.25	Pass		
			64QAM	-3.24	3680.76	3690.25	Pass		
		7	QPSK	-0.25	3680.76	3690.25	Pass		
			16QAM	3.35	3680.76	3690.25	Pass		
			64QAM	1.91	3680.76	3690.25	Pass		
		30	-48	0	QPSK	1.44	3680.76	3690.25	Pass
					16QAM	1.25	3680.76	3690.25	Pass
					64QAM	0.04	3680.76	3690.25	Pass
1	QPSK			-2.28	3680.76	3690.25	Pass		
	16QAM			2.54	3680.76	3690.25	Pass		
	64QAM			0.06	3680.76	3690.25	Pass		
2	QPSK			3.86	3680.76	3690.25	Pass		
	16QAM			-3.28	3680.76	3690.25	Pass		
	64QAM			-0.11	3680.76	3690.25	Pass		
3	QPSK			-1.05	3680.76	3690.25	Pass		
	16QAM			0.45	3680.76	3690.25	Pass		
	64QAM			-1.25	3680.76	3690.25	Pass		

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

Temperature (°C)	Power Supplied (VDC)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
		4	QPSK	2.63	3680.76	3690.25	Pass		
			16QAM	3.46	3680.76	3690.25	Pass		
			64QAM	-2.29	3680.76	3690.25	Pass		
		5	QPSK	-2.22	3680.76	3690.25	Pass		
			16QAM	-0.30	3680.76	3690.25	Pass		
			64QAM	-1.66	3680.76	3690.25	Pass		
		6	QPSK	1.42	3680.76	3690.25	Pass		
			16QAM	3.44	3680.76	3690.25	Pass		
			64QAM	-0.96	3680.76	3690.25	Pass		
		7	QPSK	-1.90	3680.76	3690.25	Pass		
			16QAM	-3.63	3680.76	3690.25	Pass		
			64QAM	3.64	3680.76	3690.25	Pass		
		40	-48	0	QPSK	-1.50	3680.76	3690.25	Pass
					16QAM	-3.04	3680.76	3690.25	Pass
					64QAM	-3.59	3680.76	3690.25	Pass
				1	QPSK	-0.25	3680.76	3690.25	Pass
					16QAM	3.35	3680.76	3690.25	Pass
					64QAM	1.91	3680.76	3690.25	Pass
				2	QPSK	-3.16	3680.76	3690.25	Pass
					16QAM	1.67	3680.76	3690.25	Pass
					64QAM	-3.91	3680.76	3690.25	Pass
				3	QPSK	-2.67	3680.76	3690.25	Pass
					16QAM	-2.73	3680.76	3690.25	Pass
					64QAM	-3.30	3680.76	3690.25	Pass
4	QPSK			-1.65	3680.76	3690.25	Pass		
	16QAM			-0.53	3680.76	3690.25	Pass		
	64QAM			-0.07	3680.76	3690.25	Pass		
5	QPSK			0.02	3680.76	3690.25	Pass		
	16QAM			-3.98	3680.76	3690.25	Pass		
	64QAM			0.53	3680.76	3690.25	Pass		
6	QPSK			-2.38	3680.76	3690.25	Pass		
	16QAM			3.07	3680.76	3690.25	Pass		
	64QAM			3.62	3680.76	3690.25	Pass		
7	QPSK			-3.68	3680.76	3690.25	Pass		
	16QAM			3.04	3680.76	3690.25	Pass		
	64QAM			1.63	3680.76	3690.25	Pass		



**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

Temperature (°C)	Power Supplied (VDC)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
50	-48	0	QPSK	3.58	3680.76	3690.25	Pass		
			16QAM	1.67	3680.76	3690.25	Pass		
			64QAM	1.63	3680.76	3690.25	Pass		
		1	QPSK	2.79	3680.76	3690.25	Pass		
			16QAM	1.84	3680.76	3690.25	Pass		
			64QAM	2.74	3680.76	3690.25	Pass		
		2	QPSK	0.35	3680.76	3690.25	Pass		
			16QAM	0.81	3680.76	3690.25	Pass		
			64QAM	-2.55	3680.76	3690.25	Pass		
		3	QPSK	1.28	3680.76	3690.25	Pass		
			16QAM	1.98	3680.76	3690.25	Pass		
			64QAM	1.44	3680.76	3690.25	Pass		
		4	QPSK	-3.16	3680.76	3690.25	Pass		
			16QAM	1.67	3680.76	3690.25	Pass		
			64QAM	-3.91	3680.76	3690.25	Pass		
		5	QPSK	3.34	3680.76	3690.25	Pass		
			16QAM	3.56	3680.76	3690.25	Pass		
			64QAM	-0.37	3680.76	3690.25	Pass		
		6	QPSK	0.74	3680.76	3690.25	Pass		
			16QAM	3.24	3680.76	3690.25	Pass		
			64QAM	2.09	3680.76	3690.25	Pass		
		7	QPSK	-2.38	3680.76	3690.25	Pass		
			16QAM	0.76	3680.76	3690.25	Pass		
			64QAM	3.60	3680.76	3690.25	Pass		
		55	-48	0	QPSK	-2.10	3680.76	3690.25	Pass
					16QAM	-2.94	3680.76	3690.25	Pass
					64QAM	-1.97	3680.76	3690.25	Pass
1	QPSK			1.51	3680.76	3690.25	Pass		
	16QAM			-3.69	3680.76	3690.25	Pass		
	64QAM			-2.07	3680.76	3690.25	Pass		
2	QPSK			-0.23	3680.76	3690.25	Pass		
	16QAM			1.86	3680.76	3690.25	Pass		
	64QAM			-1.36	3680.76	3690.25	Pass		
3	QPSK			1.78	3680.76	3690.25	Pass		
	16QAM			-1.79	3680.76	3690.25	Pass		
	64QAM			1.97	3680.76	3690.25	Pass		

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

<b>Temperature (°C)</b>	<b>Power Supplied (VDC)</b>	<b>Port</b>	<b>Modulation</b>	<b>Frequency Measure Error ( Hz)</b>	<b>FL+ Frequency Offset ( MHz)</b>	<b>FH+ Frequency Offset ( MHz)</b>	<b>Result</b>
		4	QPSK	0.37	3680.76	3690.25	Pass
			16QAM	2.30	3680.76	3690.25	Pass
			64QAM	-0.61	3680.76	3690.25	Pass
		5	QPSK	-1.01	3680.76	3690.25	Pass
			16QAM	1.27	3680.76	3690.25	Pass
			64QAM	-2.29	3680.76	3690.25	Pass
		6	QPSK	-0.19	3680.76	3690.25	Pass
			16QAM	0.35	3680.76	3690.25	Pass
			64QAM	1.08	3680.76	3690.25	Pass
		7	QPSK	3.34	3680.76	3690.25	Pass
			16QAM	3.56	3680.76	3690.25	Pass
			64QAM	-0.37	3680.76	3690.25	Pass

Frequency Stability versus Voltage

Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3660MHz) FL=3650.74MHz, FH=3669.27MHz									
Voltage : Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
85%	25°C	0	QPSK	0.21	3650.74	3669.27	Pass		
			16QAM	1.85	3650.74	3669.27	Pass		
			64QAM	1.69	3650.74	3669.27	Pass		
		1	QPSK	2.46	3650.74	3669.27	Pass		
			16QAM	3.52	3650.74	3669.27	Pass		
			64QAM	-1.59	3650.74	3669.27	Pass		
		2	QPSK	2.07	3650.74	3669.27	Pass		
			16QAM	-3.73	3650.74	3669.27	Pass		
			64QAM	-0.01	3650.74	3669.27	Pass		
		3	QPSK	-2.93	3650.74	3669.27	Pass		
			16QAM	-2.29	3650.74	3669.27	Pass		
			64QAM	-3.57	3650.74	3669.27	Pass		
		4	QPSK	-0.22	3650.74	3669.27	Pass		
			16QAM	-3.96	3650.74	3669.27	Pass		
			64QAM	1.23	3650.74	3669.27	Pass		
		5	QPSK	0.60	3650.74	3669.27	Pass		
			16QAM	0.36	3650.74	3669.27	Pass		
			64QAM	-0.95	3650.74	3669.27	Pass		
		6	QPSK	-3.29	3650.74	3669.27	Pass		
			16QAM	0.49	3650.74	3669.27	Pass		
			64QAM	-1.69	3650.74	3669.27	Pass		
		7	QPSK	1.92	3650.74	3669.27	Pass		
			16QAM	2.52	3650.74	3669.27	Pass		
			64QAM	-1.22	3650.74	3669.27	Pass		
		100%	25°C	0	QPSK	0.47	3650.74	3669.27	Pass
					16QAM	0.55	3650.74	3669.27	Pass
					64QAM	-3.32	3650.74	3669.27	Pass
1	QPSK			0.21	3650.74	3669.27	Pass		
	16QAM			1.85	3650.74	3669.27	Pass		
	64QAM			1.69	3650.74	3669.27	Pass		
2	QPSK			1.42	3650.74	3669.27	Pass		
	16QAM			-0.23	3650.74	3669.27	Pass		
	64QAM			-3.41	3650.74	3669.27	Pass		
3	QPSK	-3.37	3650.74	3669.27	Pass				
	16QAM	3.73	3650.74	3669.27	Pass				

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3660MHz)  
FL=3650.74MHz, FH=3669.27MHz**

<b>Voltage : Ref=- 48V (%)</b>	<b>Tempera ture (°C)</b>	<b>Port</b>	<b>Modulation</b>	<b>Frequency Measure Error ( Hz)</b>	<b>FL+ Frequency Offset ( MHz)</b>	<b>FH+ Frequency Offset ( MHz)</b>	<b>Result</b>		
		4	64QAM	-1.74	3650.74	3669.27	Pass		
			QPSK	-3.72	3650.74	3669.27	Pass		
			16QAM	-1.00	3650.74	3669.27	Pass		
		5	64QAM	0.44	3650.74	3669.27	Pass		
			QPSK	0.80	3650.74	3669.27	Pass		
			16QAM	-1.50	3650.74	3669.27	Pass		
		6	64QAM	-2.87	3650.74	3669.27	Pass		
			QPSK	-2.76	3650.74	3669.27	Pass		
			16QAM	-0.26	3650.74	3669.27	Pass		
		7	64QAM	1.56	3650.74	3669.27	Pass		
			QPSK	2.96	3650.74	3669.27	Pass		
			16QAM	-0.21	3650.74	3669.27	Pass		
		115%	25°C	0	64QAM	2.86	3650.74	3669.27	Pass
					QPSK	-2.13	3650.74	3669.27	Pass
					16QAM	-1.40	3650.74	3669.27	Pass
				1	64QAM	-3.06	3650.74	3669.27	Pass
					QPSK	2.42	3650.74	3669.27	Pass
					16QAM	-3.99	3650.74	3669.27	Pass
				2	64QAM	1.79	3650.74	3669.27	Pass
					QPSK	1.90	3650.74	3669.27	Pass
					16QAM	-2.81	3650.74	3669.27	Pass
3	64QAM			-0.93	3650.74	3669.27	Pass		
	QPSK			1.45	3650.74	3669.27	Pass		
	16QAM			3.51	3650.74	3669.27	Pass		
4	64QAM			1.77	3650.74	3669.27	Pass		
	QPSK			1.42	3650.74	3669.27	Pass		
	16QAM			-0.23	3650.74	3669.27	Pass		
5	64QAM			-3.41	3650.74	3669.27	Pass		
	QPSK			1.95	3650.74	3669.27	Pass		
	16QAM			-0.17	3650.74	3669.27	Pass		
6	64QAM			-1.87	3650.74	3669.27	Pass		
	QPSK			1.08	3650.74	3669.27	Pass		
	16QAM			-2.80	3650.74	3669.27	Pass		
7	64QAM	3.91	3650.74	3669.27	Pass				
	QPSK	3.37	3650.74	3669.27	Pass				
			16QAM	0.35	3650.74	3669.27	Pass		

Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3660MHz) FL=3650.74MHz, FH=3669.27MHz							
Voltage : Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result
			64QAM	-1.44	3650.74	3669.27	Pass

Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3675MHz) FL=3665.71MHz, FH=3695.29MHz									
Voltage : Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result		
85%	25°C	0	QPSK	-0.80	3665.71	3695.29	Pass		
			16QAM	-2.35	3665.71	3695.29	Pass		
			64QAM	2.39	3665.71	3695.29	Pass		
		1	QPSK	-2.33	3665.71	3695.29	Pass		
			16QAM	-2.67	3665.71	3695.29	Pass		
			64QAM	3.18	3665.71	3695.29	Pass		
		2	QPSK	-0.85	3665.71	3695.29	Pass		
			16QAM	1.43	3665.71	3695.29	Pass		
			64QAM	-2.11	3665.71	3695.29	Pass		
		3	QPSK	-0.49	3665.71	3695.29	Pass		
			16QAM	0.92	3665.71	3695.29	Pass		
			64QAM	3.92	3665.71	3695.29	Pass		
		4	QPSK	-0.37	3665.71	3695.29	Pass		
			16QAM	0.83	3665.71	3695.29	Pass		
			64QAM	-2.48	3665.71	3695.29	Pass		
		5	QPSK	-2.90	3665.71	3695.29	Pass		
			16QAM	2.68	3665.71	3695.29	Pass		
			64QAM	1.34	3665.71	3695.29	Pass		
		6	QPSK	1.79	3665.71	3695.29	Pass		
			16QAM	0.82	3665.71	3695.29	Pass		
			64QAM	-3.68	3665.71	3695.29	Pass		
		7	QPSK	-3.35	3665.71	3695.29	Pass		
			16QAM	1.32	3665.71	3695.29	Pass		
			64QAM	-0.59	3665.71	3695.29	Pass		
		100%	25°C	0	QPSK	-1.53	3665.71	3695.29	Pass
					16QAM	0.73	3665.71	3695.29	Pass
					64QAM	-2.45	3665.71	3695.29	Pass
1	QPSK			0.64	3665.71	3695.29	Pass		
	16QAM			2.60	3665.71	3695.29	Pass		

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3675MHz)  
FL=3665.71MHz, FH=3695.29MHz**

<b>Voltage : Ref= -48V (%)</b>	<b>Tempera ture (°C)</b>	<b>Port</b>	<b>Modulation</b>	<b>Frequency Measure Error ( Hz)</b>	<b>FL+ Frequency Offset ( MHz)</b>	<b>FH+ Frequency Offset ( MHz)</b>	<b>Result</b>		
115%	25°C	2	64QAM	3.36	3665.71	3695.29	Pass		
			QPSK	0.20	3665.71	3695.29	Pass		
			16QAM	-3.25	3665.71	3695.29	Pass		
		3	64QAM	3.22	3665.71	3695.29	Pass		
			QPSK	1.72	3665.71	3695.29	Pass		
			16QAM	-2.27	3665.71	3695.29	Pass		
		4	64QAM	3.11	3665.71	3695.29	Pass		
			QPSK	1.57	3665.71	3695.29	Pass		
			16QAM	1.08	3665.71	3695.29	Pass		
		5	64QAM	1.58	3665.71	3695.29	Pass		
			QPSK	-3.85	3665.71	3695.29	Pass		
			16QAM	-3.73	3665.71	3695.29	Pass		
		6	64QAM	-0.03	3665.71	3695.29	Pass		
			QPSK	1.62	3665.71	3695.29	Pass		
			16QAM	1.73	3665.71	3695.29	Pass		
		7	64QAM	3.08	3665.71	3695.29	Pass		
			QPSK	2.26	3665.71	3695.29	Pass		
			16QAM	3.28	3665.71	3695.29	Pass		
		0	25°C	0	64QAM	-0.77	3665.71	3695.29	Pass
					QPSK	1.79	3665.71	3695.29	Pass
					16QAM	0.82	3665.71	3695.29	Pass
				1	64QAM	-3.68	3665.71	3695.29	Pass
					QPSK	2.07	3665.71	3695.29	Pass
					16QAM	3.96	3665.71	3695.29	Pass
				2	64QAM	-0.95	3665.71	3695.29	Pass
					QPSK	-0.79	3665.71	3695.29	Pass
					16QAM	-2.62	3665.71	3695.29	Pass
				3	64QAM	-1.10	3665.71	3695.29	Pass
					QPSK	2.78	3665.71	3695.29	Pass
					16QAM	2.29	3665.71	3695.29	Pass
4	64QAM			-1.55	3665.71	3695.29	Pass		
	QPSK			0.39	3665.71	3695.29	Pass		
	16QAM			2.72	3665.71	3695.29	Pass		
5	64QAM	1.37	3665.71	3695.29	Pass				
	QPSK	1.12	3665.71	3695.29	Pass				
			16QAM	-3.52	3665.71	3695.29	Pass		

Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3675MHz) FL=3665.71MHz, FH=3695.29MHz							
Voltage : Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result
		6	64QAM	-3.98	3665.71	3695.29	Pass
			QPSK	-1.46	3665.71	3695.29	Pass
			16QAM	2.36	3665.71	3695.29	Pass
		7	64QAM	3.99	3665.71	3695.29	Pass
			QPSK	3.92	3665.71	3695.29	Pass
			16QAM	-2.96	3665.71	3695.29	Pass
			64QAM	2.02	3665.71	3695.29	Pass

Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz) FL=3680.76MHz, FH=3690.25MHz							
Voltage : Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error ( Hz)	FL+ Frequency Offset ( MHz)	FH+ Frequency Offset ( MHz)	Result
85%	25°C	0	QPSK	0.28	3680.76	3690.25	Pass
			16QAM	-3.39	3680.76	3690.25	Pass
			64QAM	0.99	3680.76	3690.25	Pass
		1	QPSK	0.52	3680.76	3690.25	Pass
			16QAM	-3.15	3680.76	3690.25	Pass
			64QAM	2.69	3680.76	3690.25	Pass
		2	QPSK	-3.33	3680.76	3690.25	Pass
			16QAM	-2.95	3680.76	3690.25	Pass
			64QAM	-2.47	3680.76	3690.25	Pass
		3	QPSK	-3.23	3680.76	3690.25	Pass
			16QAM	-2.01	3680.76	3690.25	Pass
			64QAM	-1.41	3680.76	3690.25	Pass
		4	QPSK	3.24	3680.76	3690.25	Pass
			16QAM	3.76	3680.76	3690.25	Pass
			64QAM	-2.86	3680.76	3690.25	Pass
		5	QPSK	1.78	3680.76	3690.25	Pass
			16QAM	3.97	3680.76	3690.25	Pass
			64QAM	-0.12	3680.76	3690.25	Pass
		6	QPSK	-2.85	3680.76	3690.25	Pass
			16QAM	3.36	3680.76	3690.25	Pass
			64QAM	0.55	3680.76	3690.25	Pass
		7	QPSK	-3.43	3680.76	3690.25	Pass
			16QAM	0.15	3680.76	3690.25	Pass

**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

<b>Voltage : Ref=- 48V (%)</b>	<b>Tempera ture (°C)</b>	<b>Port</b>	<b>Modulation</b>	<b>Frequency Measure Error ( Hz)</b>	<b>FL+ Frequency Offset ( MHz)</b>	<b>FH+ Frequency Offset ( MHz)</b>	<b>Result</b>		
			64QAM	1.09	3680.76	3690.25	Pass		
100%	25°C	0	QPSK	-1.98	3680.76	3690.25	Pass		
			16QAM	2.17	3680.76	3690.25	Pass		
			64QAM	-2.15	3680.76	3690.25	Pass		
		1	QPSK	1.37	3680.76	3690.25	Pass		
			16QAM	3.43	3680.76	3690.25	Pass		
			64QAM	-2.42	3680.76	3690.25	Pass		
		2	QPSK	-2.76	3680.76	3690.25	Pass		
			16QAM	2.78	3680.76	3690.25	Pass		
			64QAM	1.06	3680.76	3690.25	Pass		
		3	QPSK	-3.93	3680.76	3690.25	Pass		
			16QAM	1.72	3680.76	3690.25	Pass		
			64QAM	2.39	3680.76	3690.25	Pass		
		4	QPSK	-3.33	3680.76	3690.25	Pass		
			16QAM	-2.95	3680.76	3690.25	Pass		
			64QAM	-2.47	3680.76	3690.25	Pass		
		5	QPSK	1.78	3680.76	3690.25	Pass		
			16QAM	-0.53	3680.76	3690.25	Pass		
			64QAM	-1.90	3680.76	3690.25	Pass		
		6	QPSK	1.78	3680.76	3690.25	Pass		
			16QAM	-2.68	3680.76	3690.25	Pass		
			64QAM	-0.97	3680.76	3690.25	Pass		
		7	QPSK	-1.72	3680.76	3690.25	Pass		
			16QAM	-2.56	3680.76	3690.25	Pass		
			64QAM	2.71	3680.76	3690.25	Pass		
		115%	25°C	0	QPSK	-2.01	3680.76	3690.25	Pass
					16QAM	-1.94	3680.76	3690.25	Pass
					64QAM	0.47	3680.76	3690.25	Pass
1	QPSK			0.40	3680.76	3690.25	Pass		
	16QAM			0.80	3680.76	3690.25	Pass		
	64QAM			-3.42	3680.76	3690.25	Pass		
2	QPSK			-3.04	3680.76	3690.25	Pass		
	16QAM			2.34	3680.76	3690.25	Pass		
	64QAM			-1.16	3680.76	3690.25	Pass		
3	QPSK			3.60	3680.76	3690.25	Pass		
	16QAM	3.29	3680.76	3690.25	Pass				



**Frequency Stability vs. Temperature ( Channel Bandwidth:20M Frequency :3690MHz)  
FL=3680.76MHz, FH=3690.25MHz**

<b>Voltage : Ref=- 48V (%)</b>	<b>Tempera ture (°C)</b>	<b>Port</b>	<b>Modulation</b>	<b>Frequency Measure Error ( Hz)</b>	<b>FL+ Frequency Offset ( MHz)</b>	<b>FH+ Frequency Offset ( MHz)</b>	<b>Result</b>
			64QAM	0.43	3680.76	3690.25	Pass
		4	QPSK	-2.18	3680.76	3690.25	Pass
			16QAM	1.87	3680.76	3690.25	Pass
			64QAM	-3.88	3680.76	3690.25	Pass
		5	QPSK	-1.07	3680.76	3690.25	Pass
			16QAM	-0.25	3680.76	3690.25	Pass
			64QAM	-3.31	3680.76	3690.25	Pass
		6	QPSK	-0.53	3680.76	3690.25	Pass
			16QAM	-3.18	3680.76	3690.25	Pass
			64QAM	-1.85	3680.76	3690.25	Pass
		7	QPSK	1.78	3680.76	3690.25	Pass
			16QAM	-0.53	3680.76	3690.25	Pass
			64QAM	-1.90	3680.76	3690.25	Pass

### 3.7. Emission Masks

#### 3.7.1. Applicable Standard: FCC §90.210 (b)

Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the modulate carrier power (P) as follows:

- (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
- (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
- (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least  $43 + 10 \log (P)$  dB.

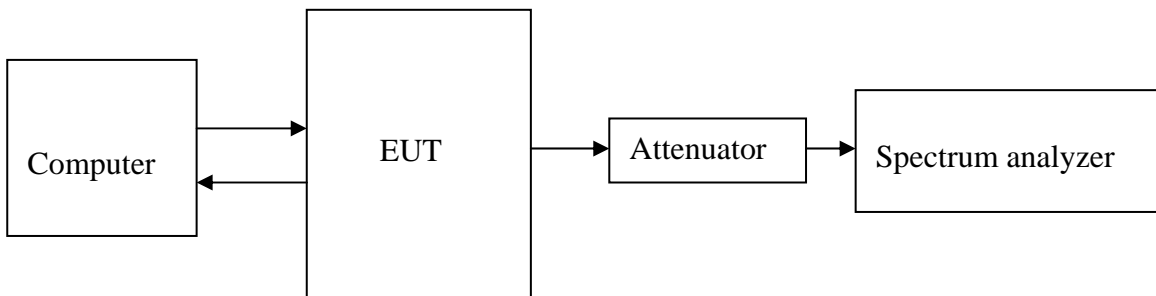
#### 3.7.2. Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Signal & Spectrum Analyzer	FSW26	SB12724/01	2017.6.19	2018.6.18

**\*statement of traceability:** SMQ attests that all calibration has been performed per the A2LA requirements, traceable to NIM.

#### 3.7.3. Test Procedure

EUT Setup:



The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television

operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

### 3.7.4.Environmental Conditions

Normal condition:	20° C
Relative Humidity:	53%
ATM Pressure:	1009 mbar

### 3.7.5.Test Result: Pass

### 3.7.6.Test Mode: Transmitting LTE

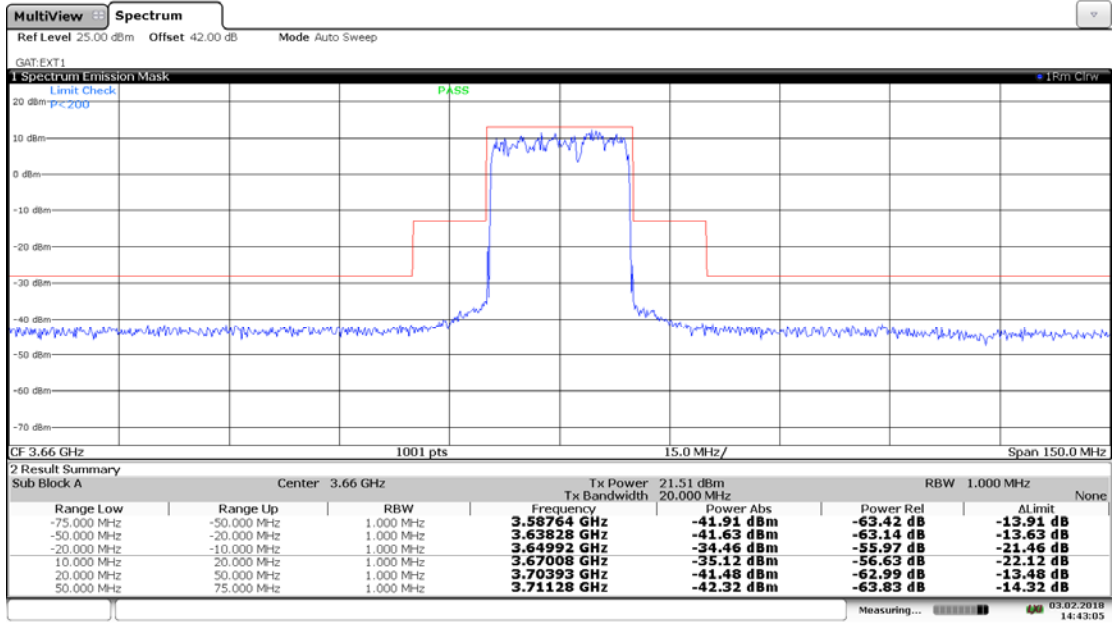
### 3.7.7.Test Data

#### Channel Bandwidth: 20M

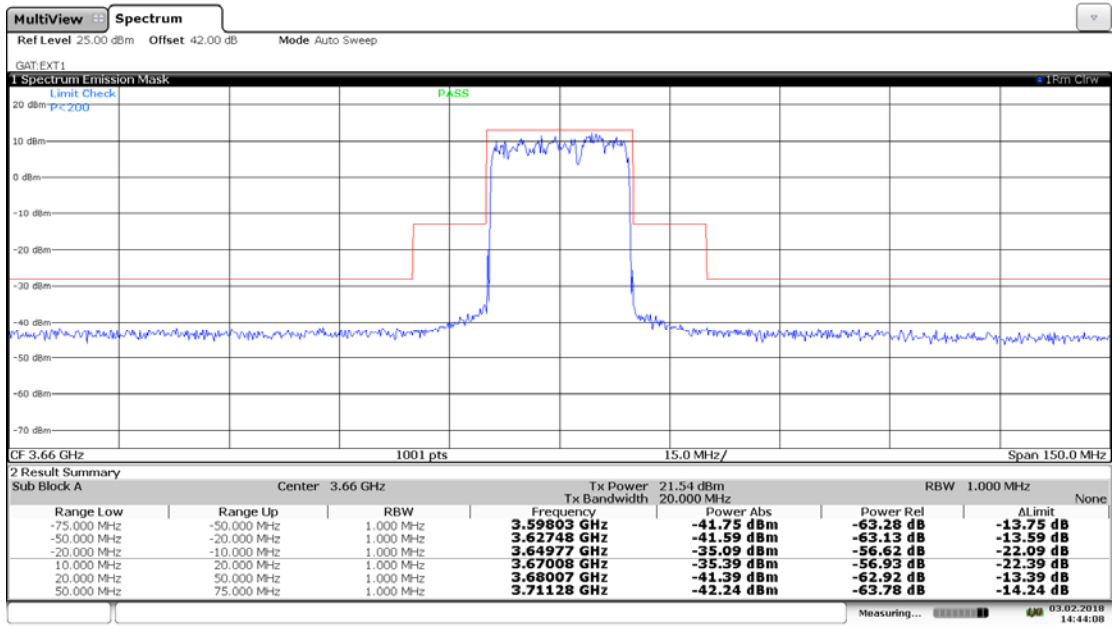
Port	Carrier Freq. (MHz)	Emission mask (dBm)								
		QPSK			16QAM			64QAM		
		10M-20M	20M-50M	50M-75M	10M-20M	20M-50M	50M-75M	10M-20M	20M-50M	50M-75M
0	3660	-34.46	-41.48	-41.91	-35.13	-41.34	-42.07	-34.7	-40.77	-42.33
1		-35.09	-41.39	-41.75	-35.58	-40.93	-42.48	-36.96	-40.33	-41.82
2		-35.83	-41.14	-41.73	-34.73	-41.68	-42.27	-35.17	-41.22	-41.7
3		-34.65	-41.11	-42.23	-35.17	-41.25	-42.22	-34.71	-41.04	-42.95
4		-34.76	-41.45	-42.75	-35.17	-41.25	-42.22	-35.49	-41.17	-41.27
5		-35.72	-41.35	-41.8	35.21	-41.41	-41.67	-35.44	-41.42	-41.73
6		-35.17	-40.98	-42.08	-34.51	-40.84	-42.34	-35.08	-41.42	-42.55
7		-34.8	-41.19	-41.28	-35.3	-41.16	-42.49	-34.33	-41.29	-42.95
0	3675	-34.88	-41.21	-41.45	-35.11	-41.16	-42.63	-34.98	-41.16	-42.98
1		-33.76	-40.94	-41.8	-34.85	-41.31	-43.02	-34.74	-40.81	-41.85
2		-33.71	-40.2	-42.15	-34.76	-41.14	-41.82	-35.25	-41.25	-41.68
3		-33.6	-41.04	-41.43	-34.06	-41.06	-42.93	-35.35	-41.52	-42.88
4		-34	-41.07	-41.35	-35	-40.53	-41.62	-34.81	-41.46	-41.95
5		-35.25	-36.1	-42.33	-34.49	-41.15	-42.61	-35.29	-41.75	-42.62
6		-33.68	-35.47	-42.86	-35.08	-41.04	-42.42	-36.02	-40.73	-42.07
7		-33.55	-34.62	-41.69	-34.83	-40.71	-41.75	-34.56	-40.93	-41.32
0	3690	-33.64	-40.52	-41.25	-34.35	-41.09	-42.41	-34.9	-40.48	-41.29
1		-34.74	-40.59	-42.24	-34.89	-40.9	-41.42	-34.26	-42.48	-42.53
2		-33.5	-40.27	-41.43	-33.73	-41.67	-42.57	-33.73	-40.61	-41.27
3		-34.53	-42.56	-41.6	-34.38	-42.42	-42.96	-33.78	-39.34	-41.44
4		-35.17	-40.72	-42.96	-34.2	-40.77	-41	-34.26	-40.36	-41.57
5		-34.54	-42.29	-42.28	-33.97	-40.83	-41.25	-34.21	-42.41	-42.82
6		-34.2	-40.43	-42.28	-34	-40.7	-41.48	-34.52	-42.43	-42.57
7		-34.56	-39.93	-40.83	-33.71	-40.53	-41.23	-34.67	-41.14	-41.23

Channel Bandwidth: 20+20+10M

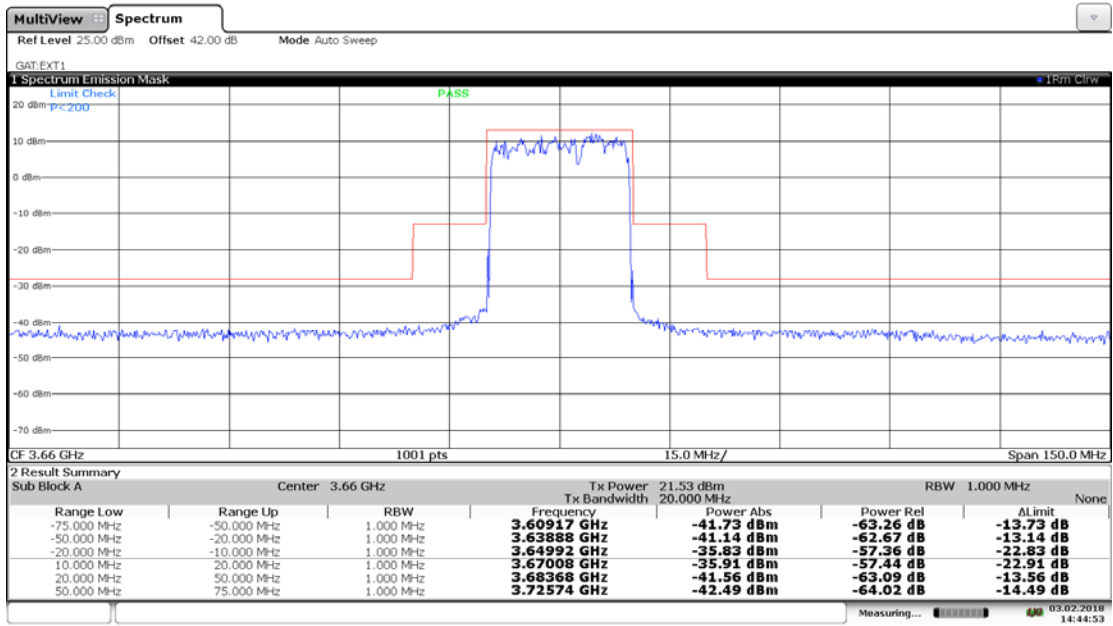
Port	Carrier Freq. (MHz)	Emission mask (dBm)								
		QPSK			16QAM			64QAM		
		10M-20M	20M-50M	50M-75M	10M-20M	20M-50M	50M-75M	10M-20M	20M-50M	50M-75M
0	3660+3680+ 3695	-43.41	-37.79	-38.25	-39.37	-34.22	-35.59	-43.76	-38.05	-38.41
1		-43.21	-37.64	-37.91	-43.6	-37.8	-38.41	-43.35	-37.87	-38.31
2		-43.19	-37.73	-37.5	-44.2	-37.71	-37.95	-42.98	-36.65	-38.23
3		-43.08	-37.84	-37.96	-43.85	-38.05	-37.72	-43.31	-37.62	-38.12
4		-43.26	-38.13	-38.17	-43.26	-37.79	-38.23	-43.19	-37.93	-38.47
5		-43.57	-37.99	-38.16	-43.3	-37.43	-38.31	-43.24	-37.96	-38.63
6		-43.51	-37.94	-38.42	-43.78	-37.95	-38.01	-43.33	-37.7	-38.58
7		-43.31	-37.91	-37.99	-43.76	-38.05	-38.41	-43.02	-37.63	-38.45



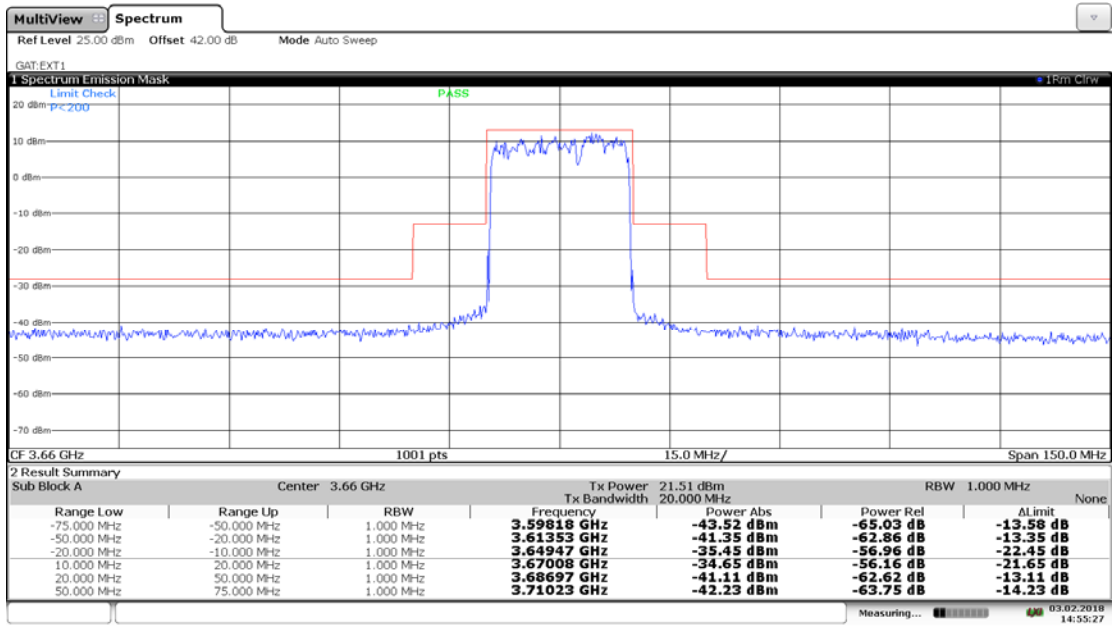
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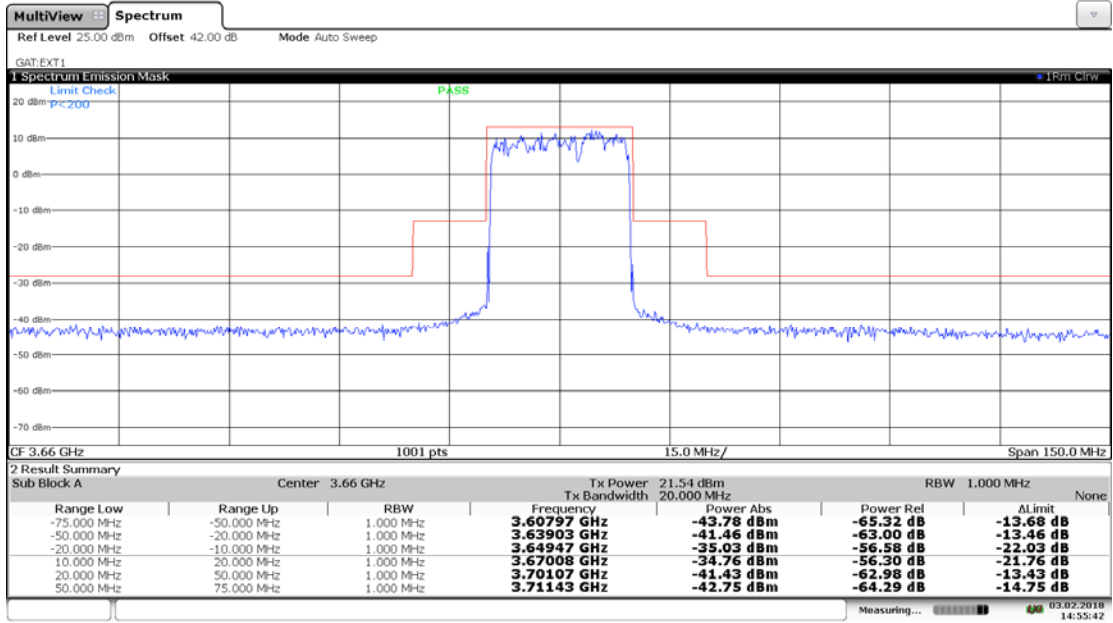
14:44:09 03.02.2018



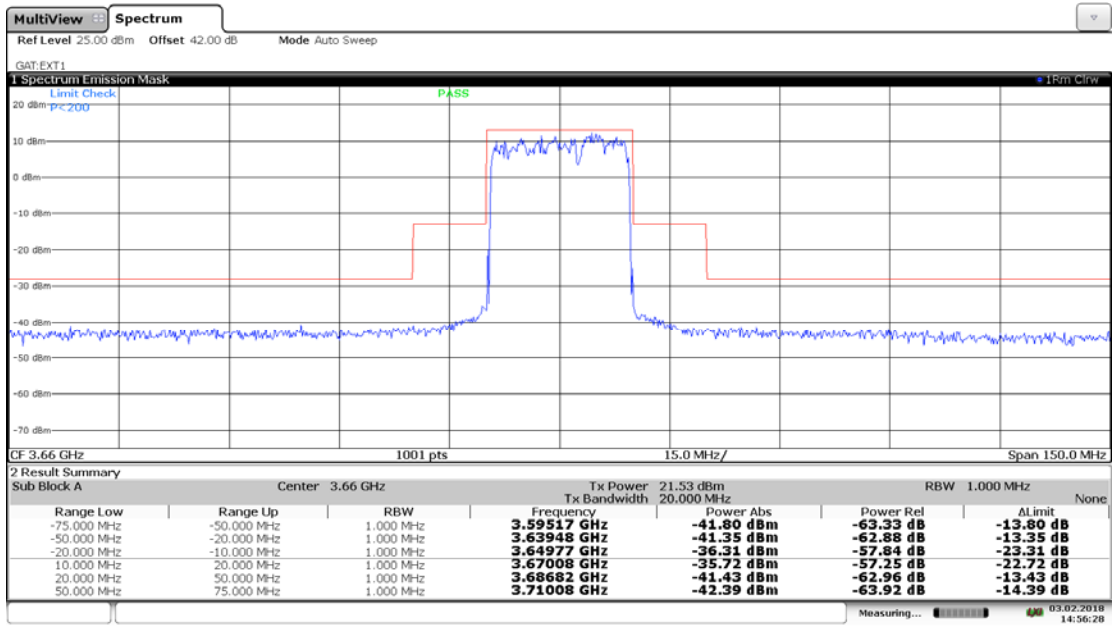
14:44:54 03.02.2018



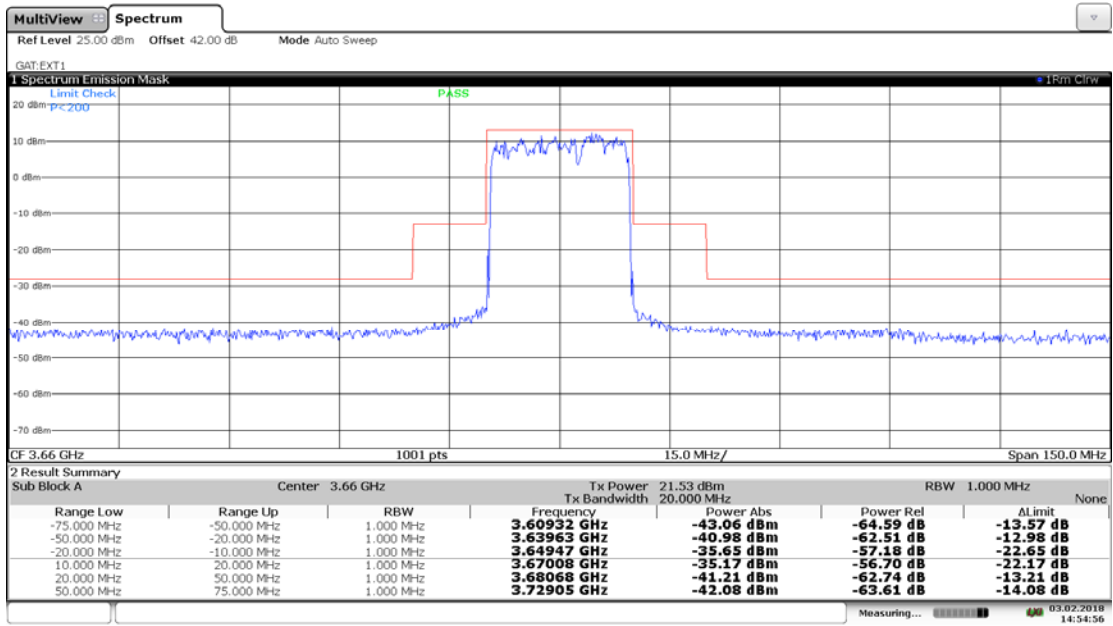
14:55:28 03.02.2018



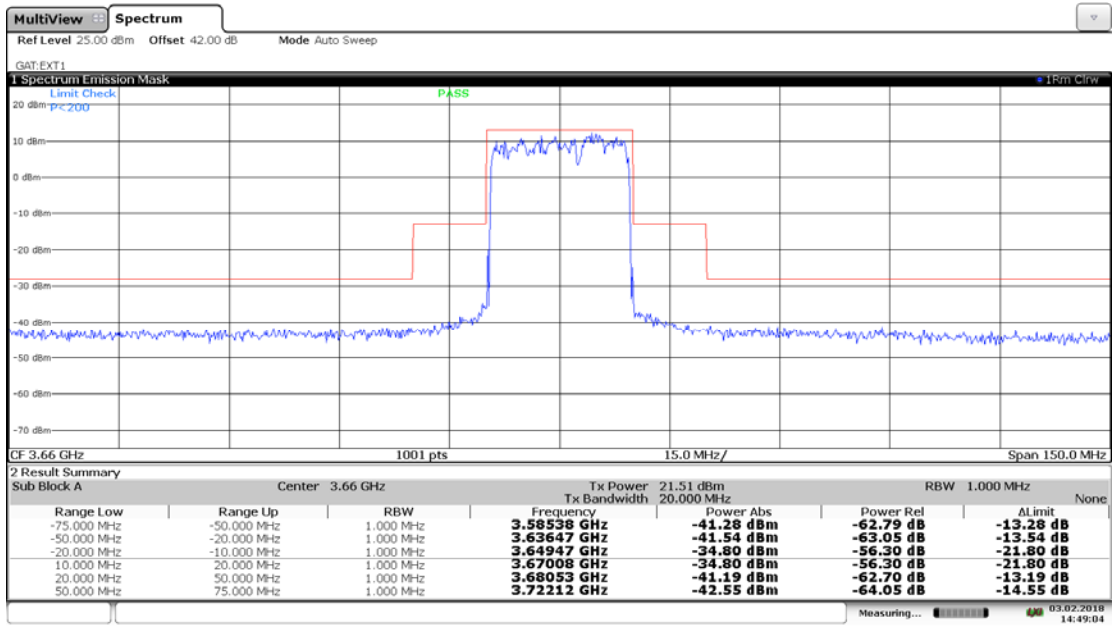
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14:56:28 03.02.2018

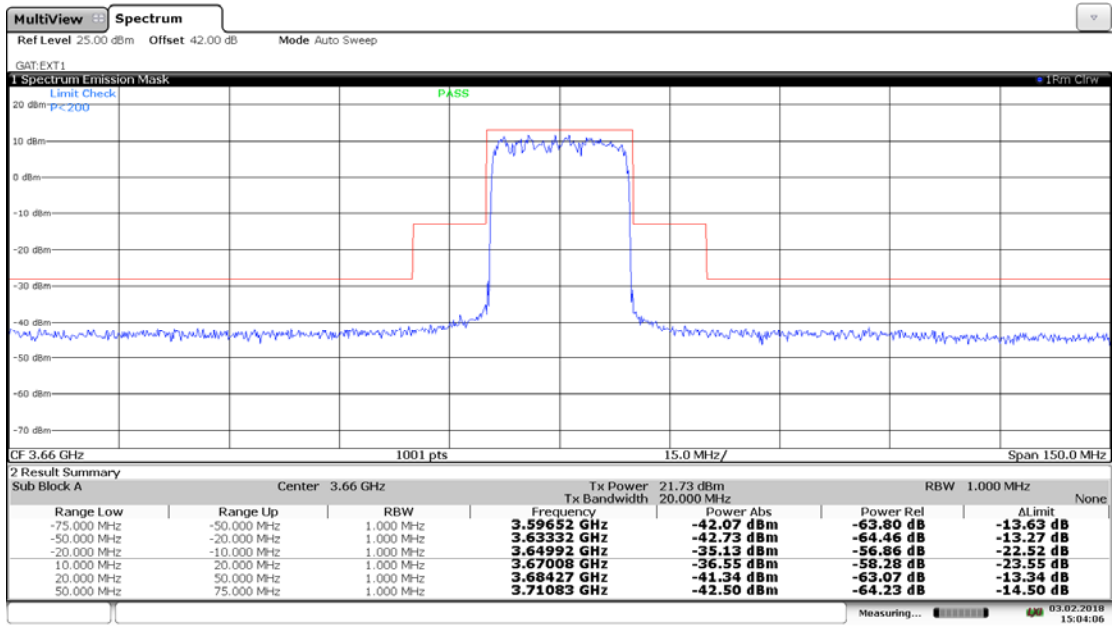


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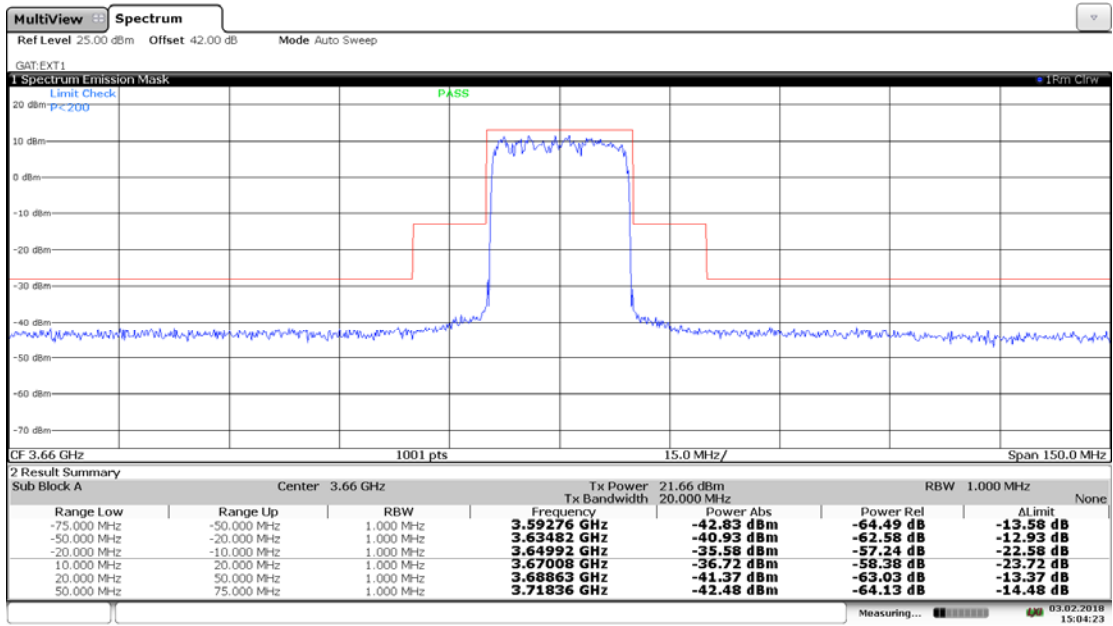


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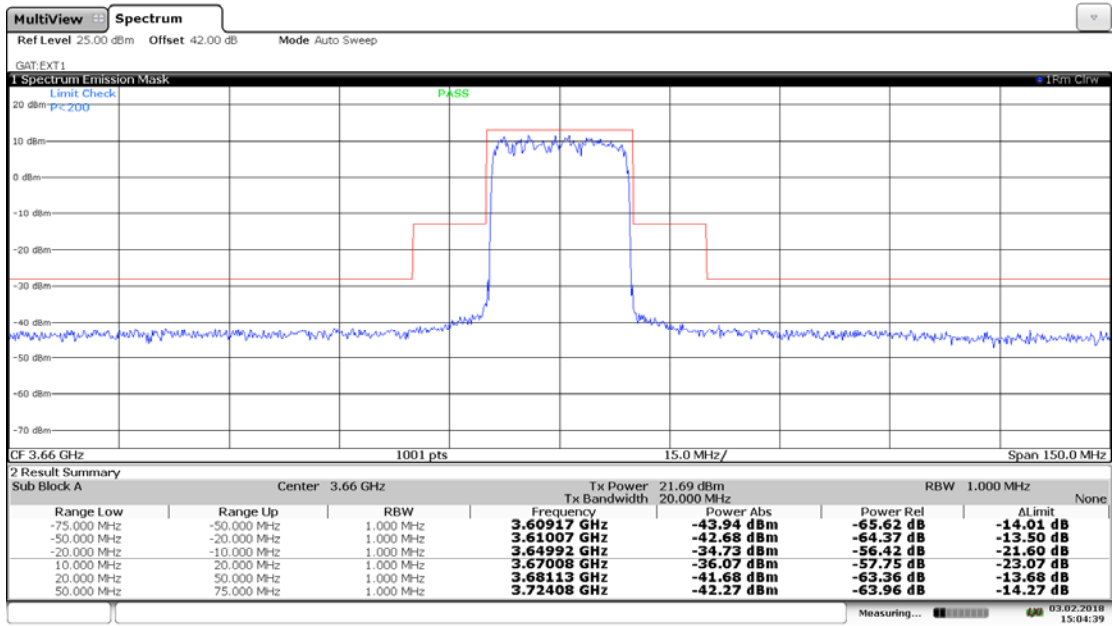




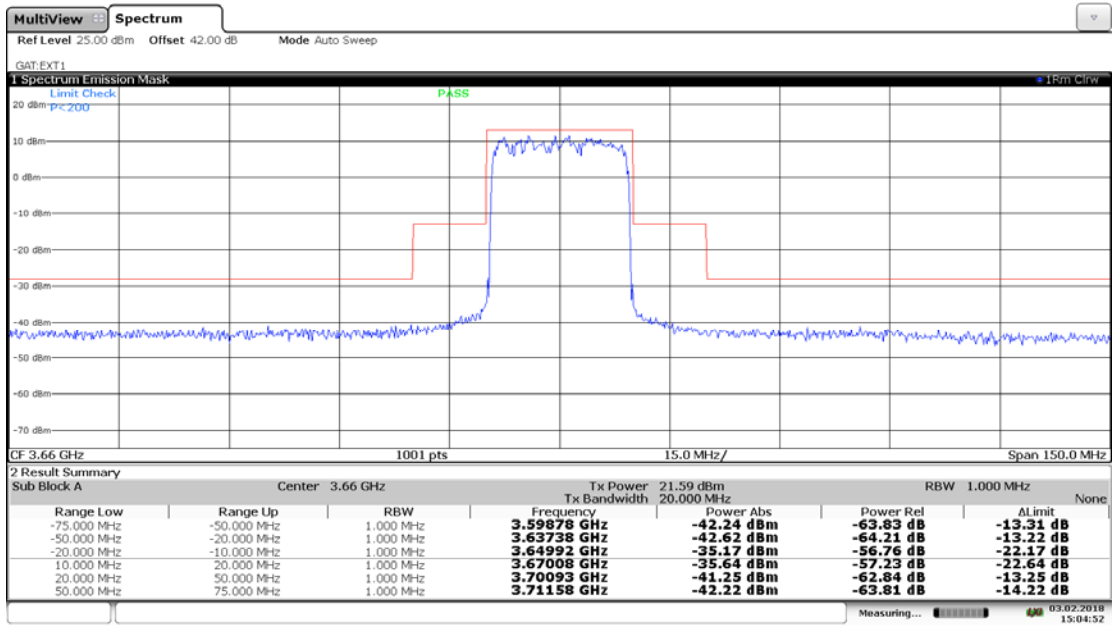
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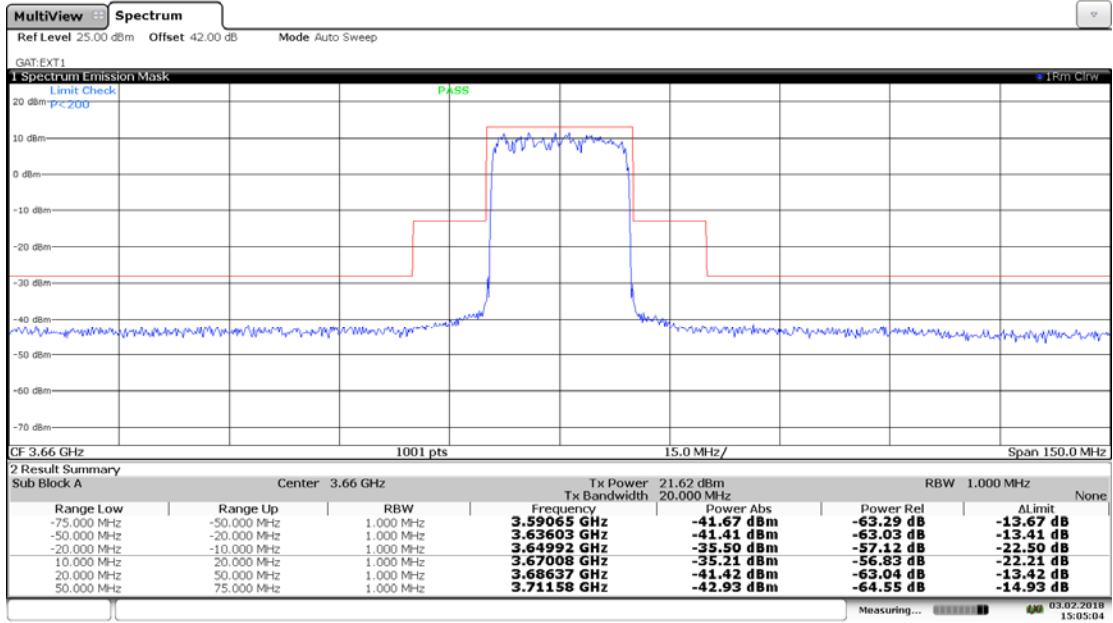
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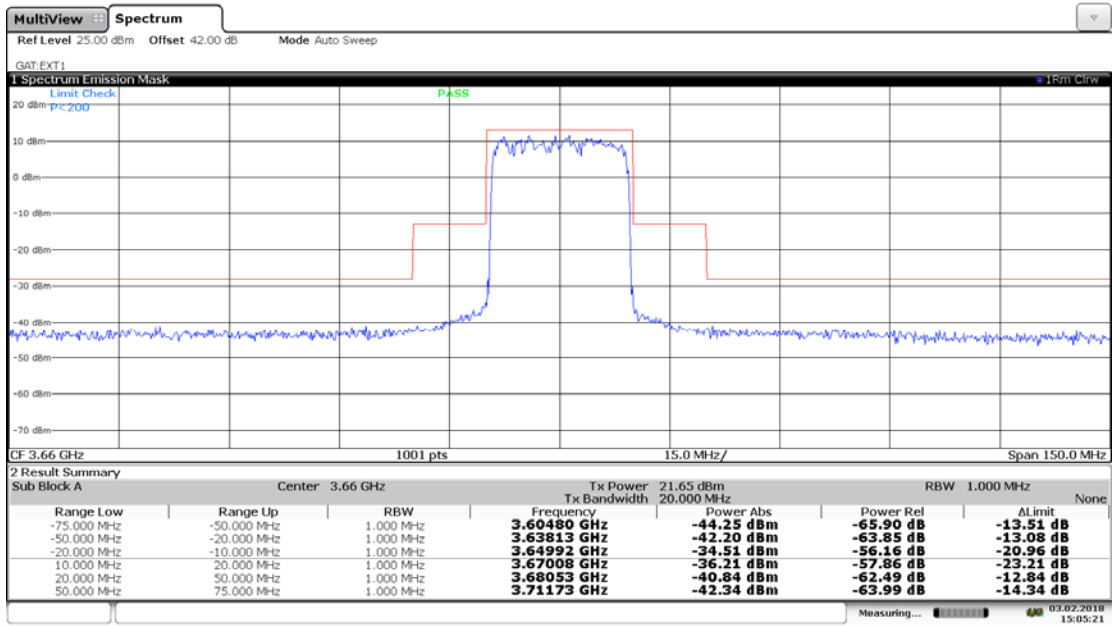
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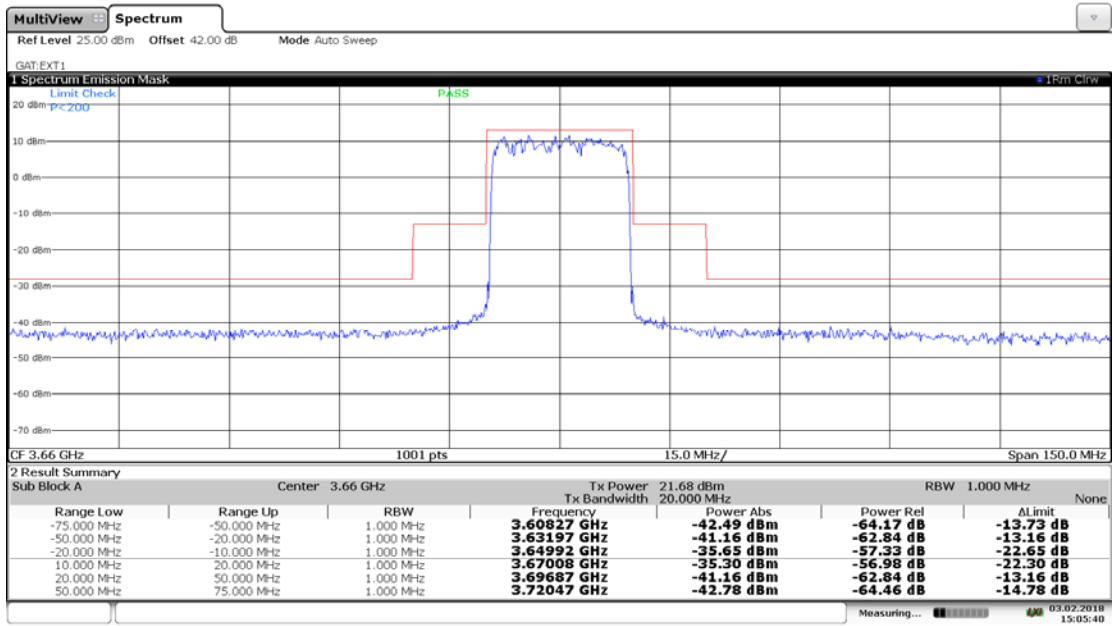
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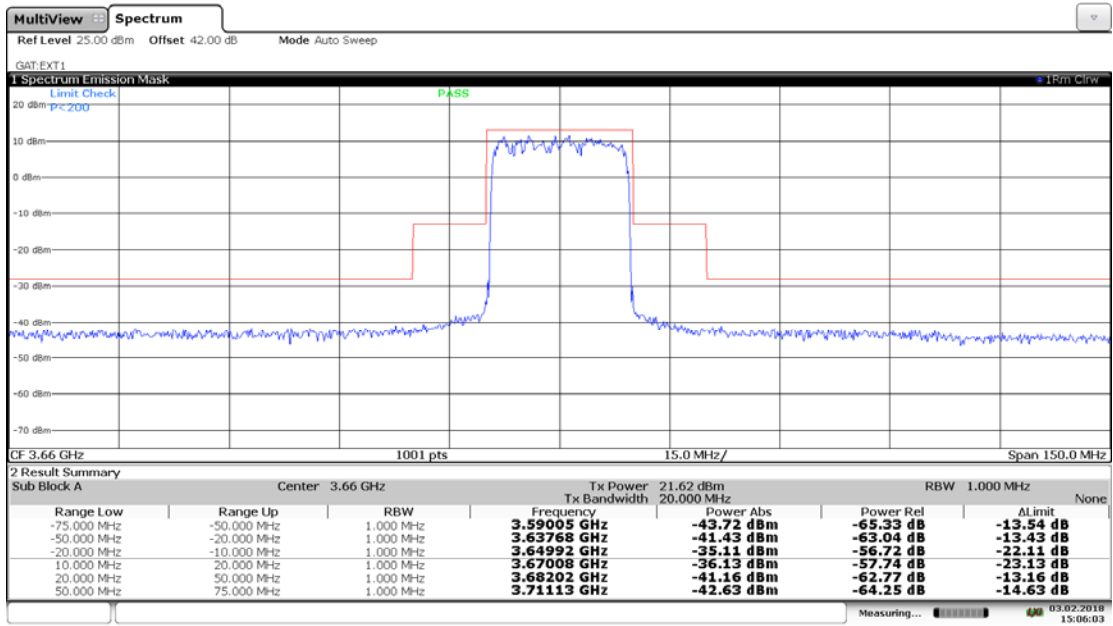
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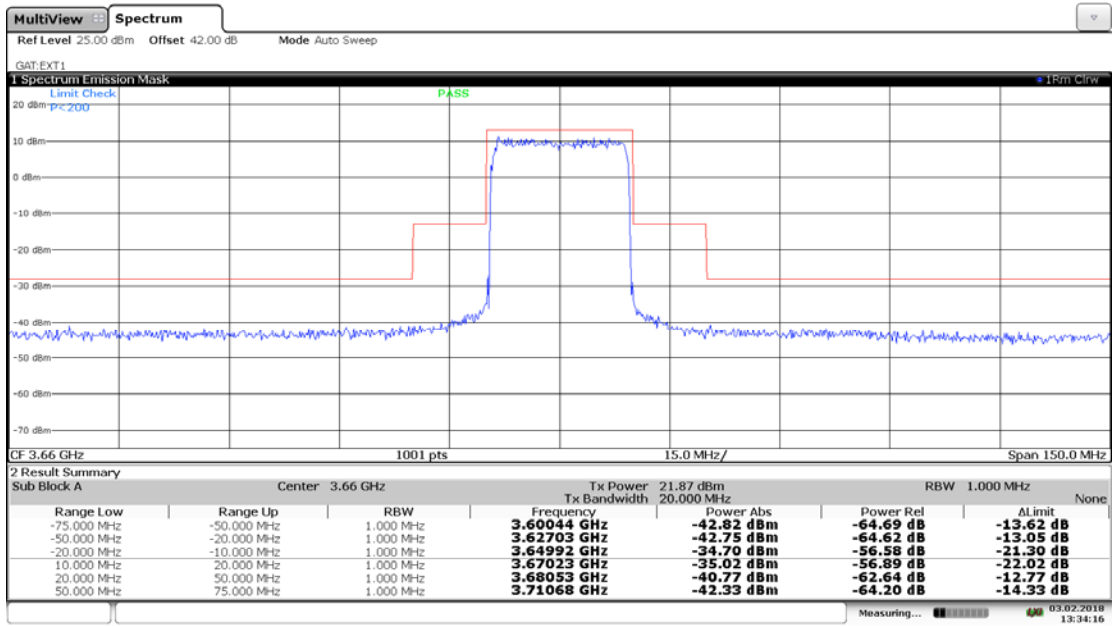
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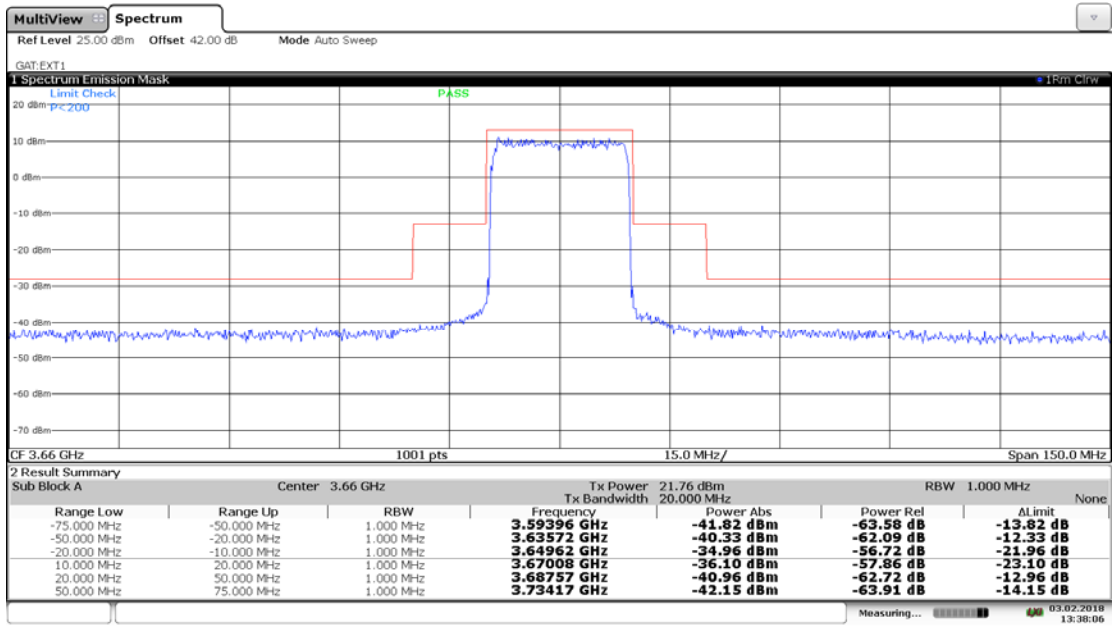
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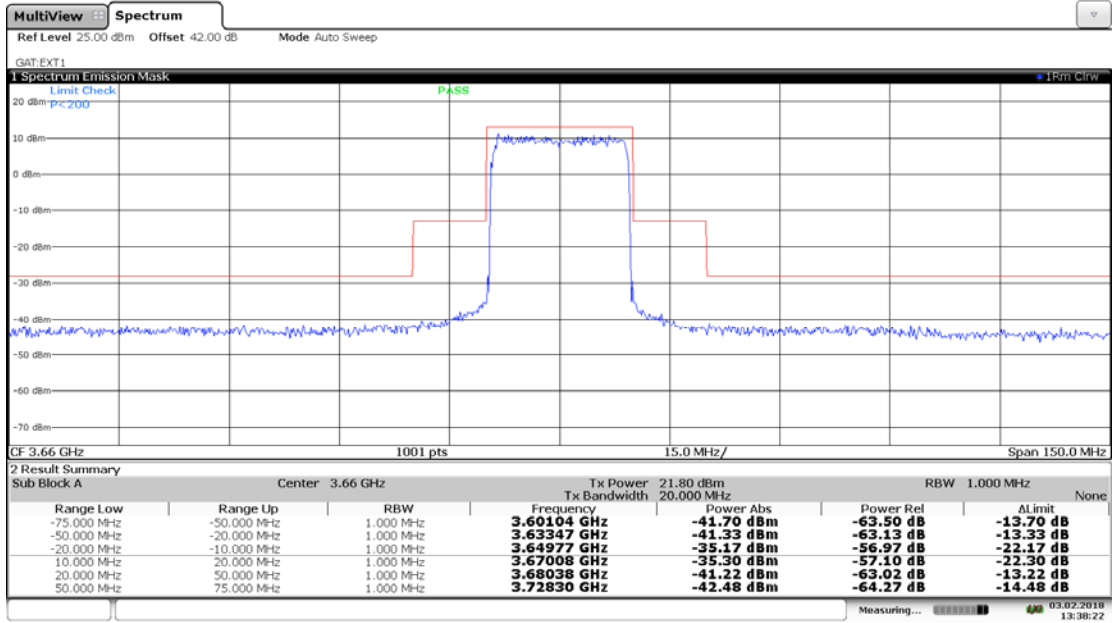
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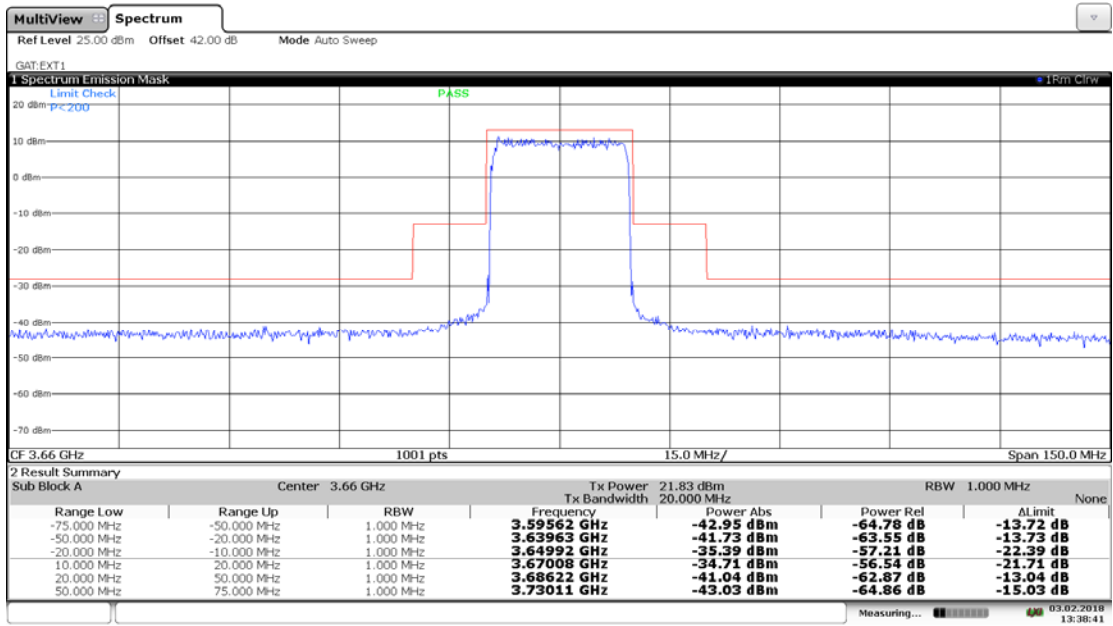
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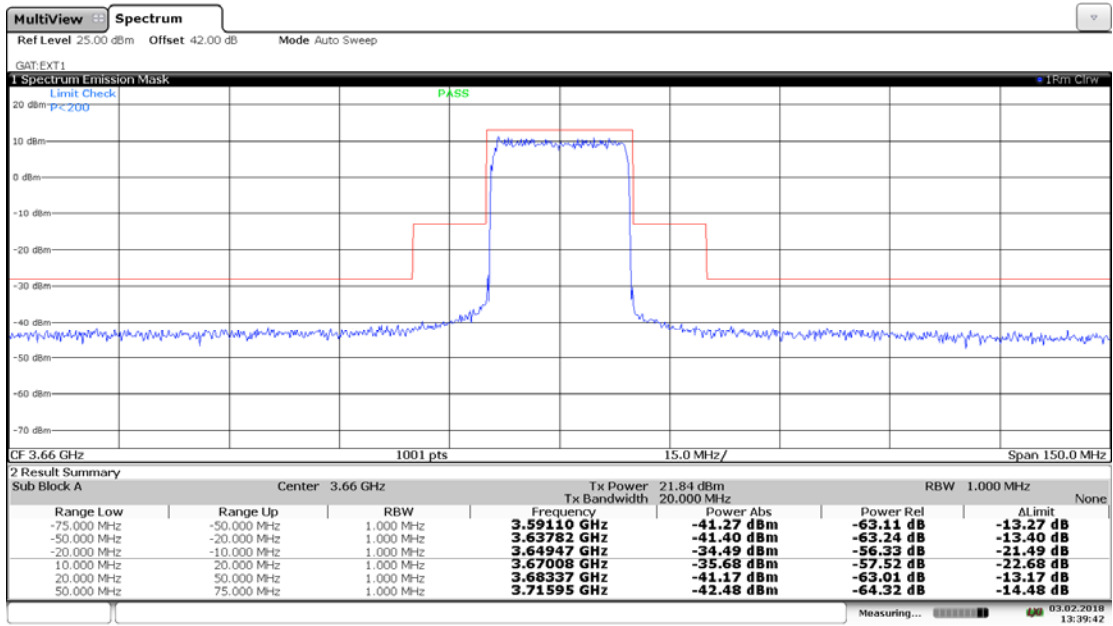
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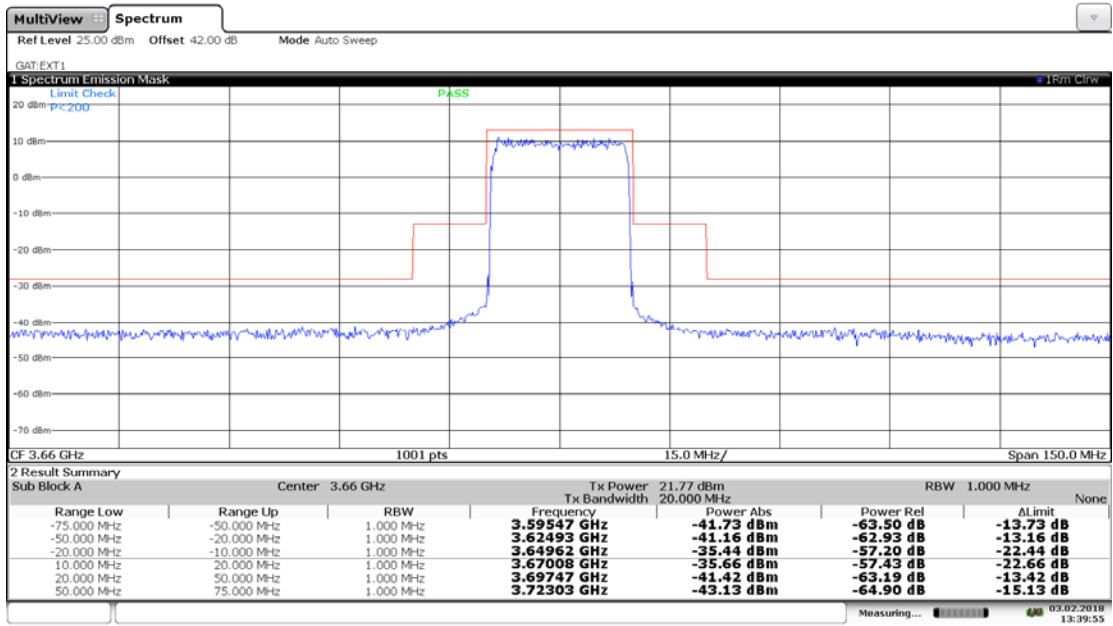
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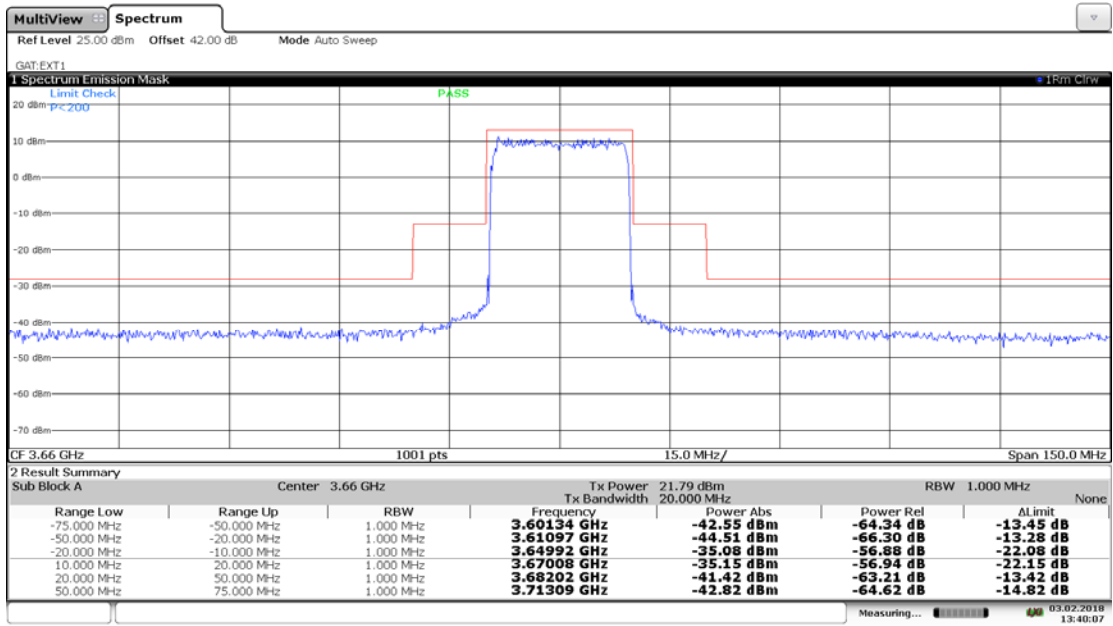
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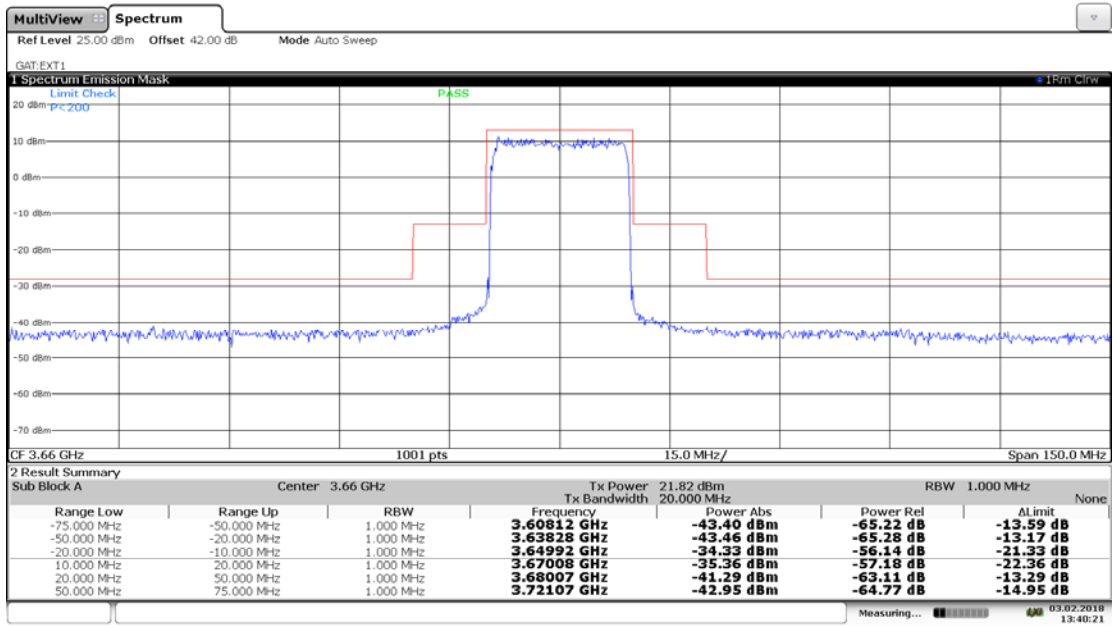
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13:39:55 03.02.2018

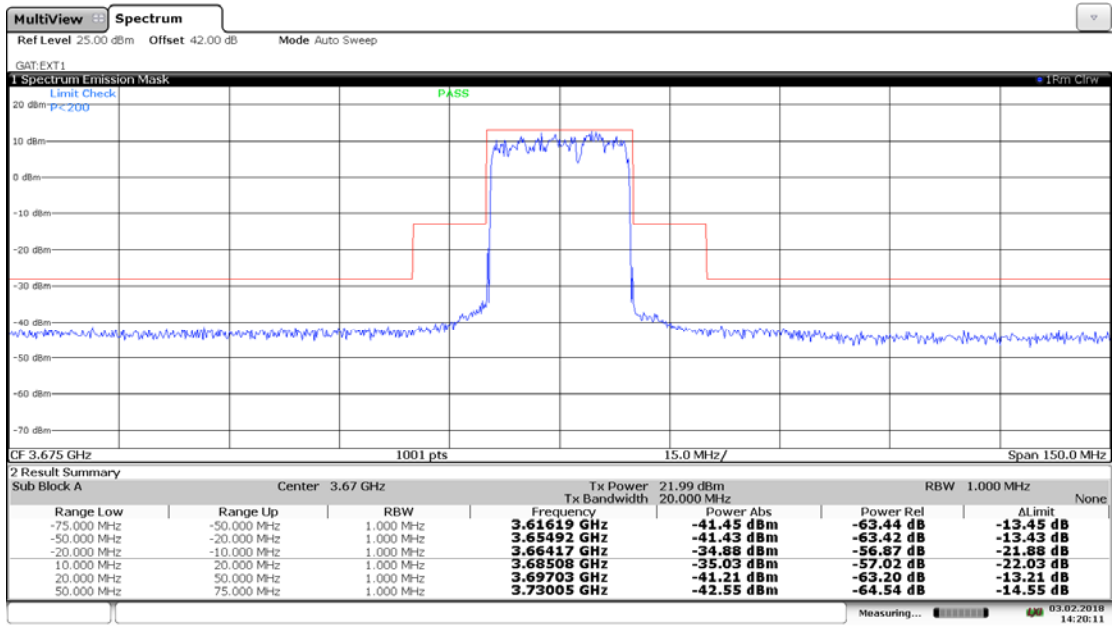


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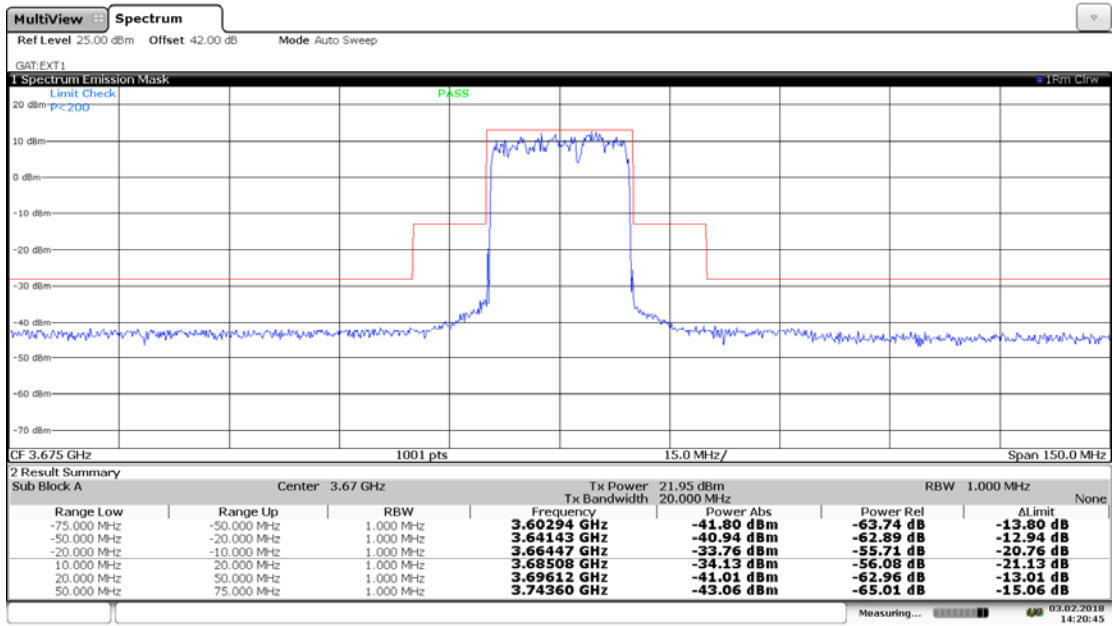


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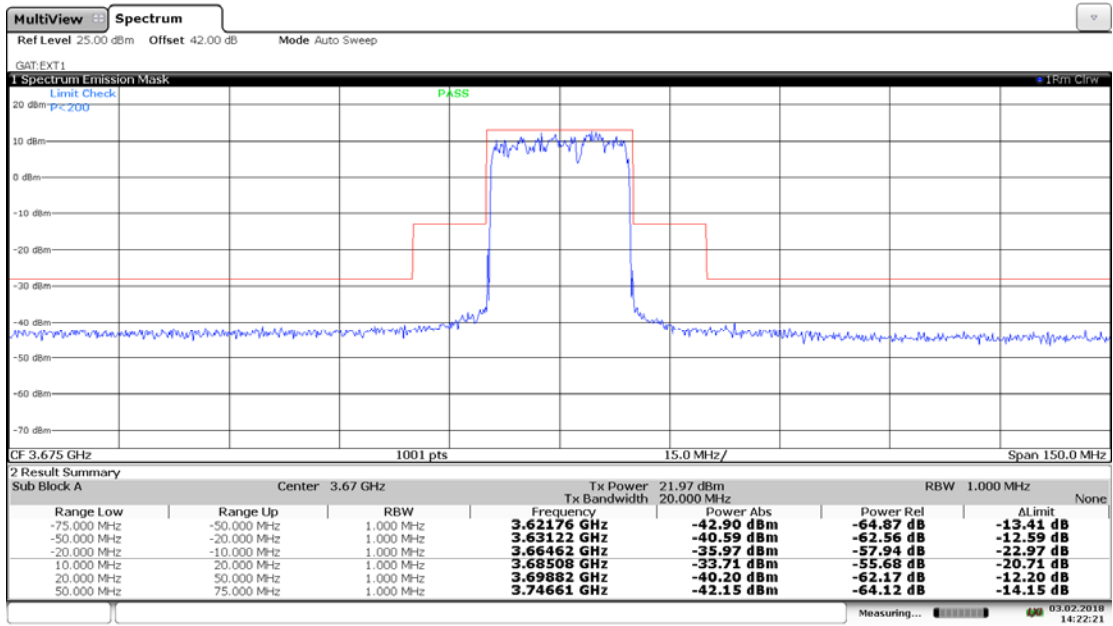




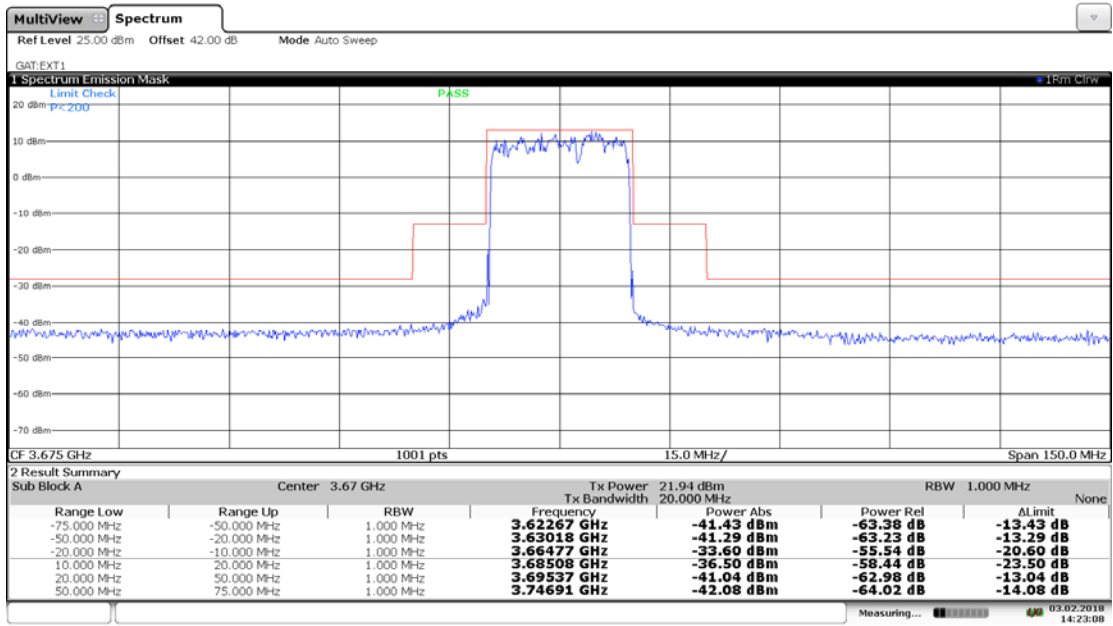
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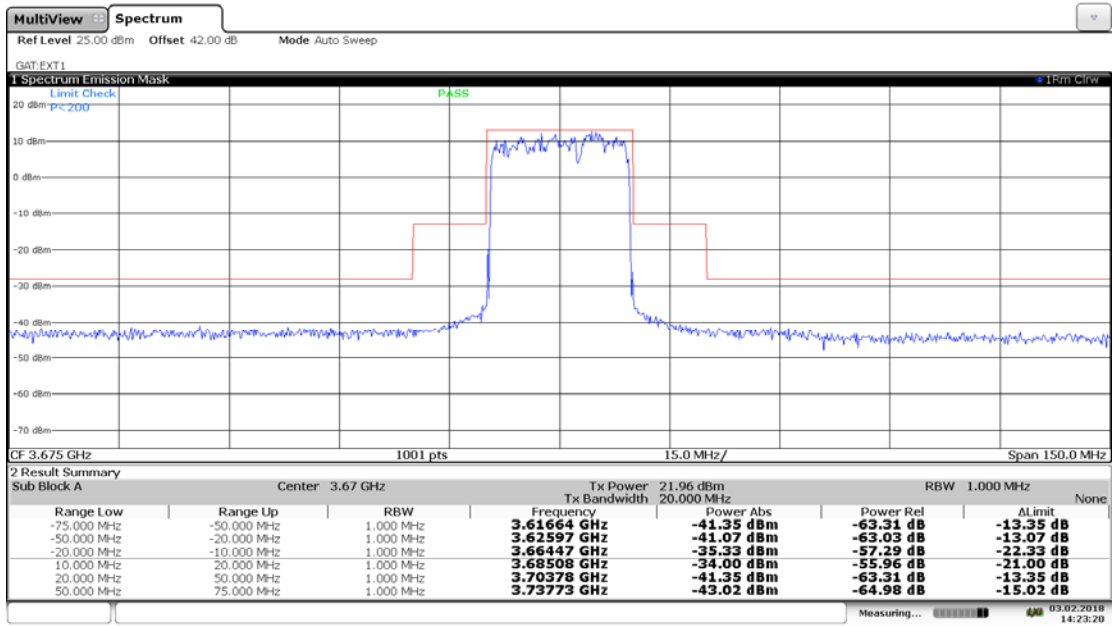
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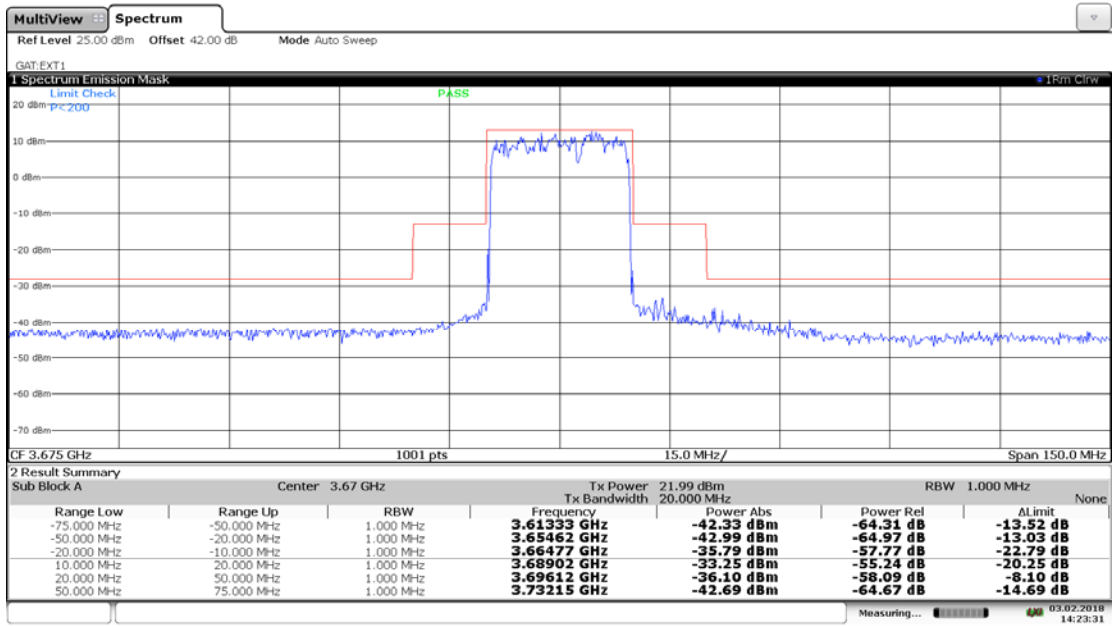
14:22:21 03.02.2018



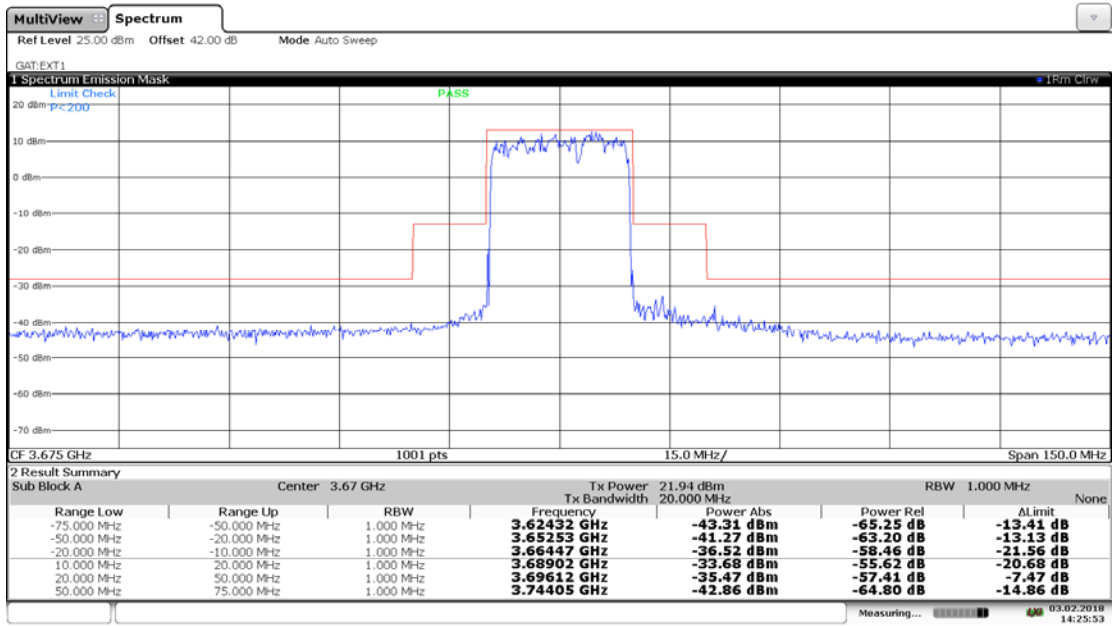
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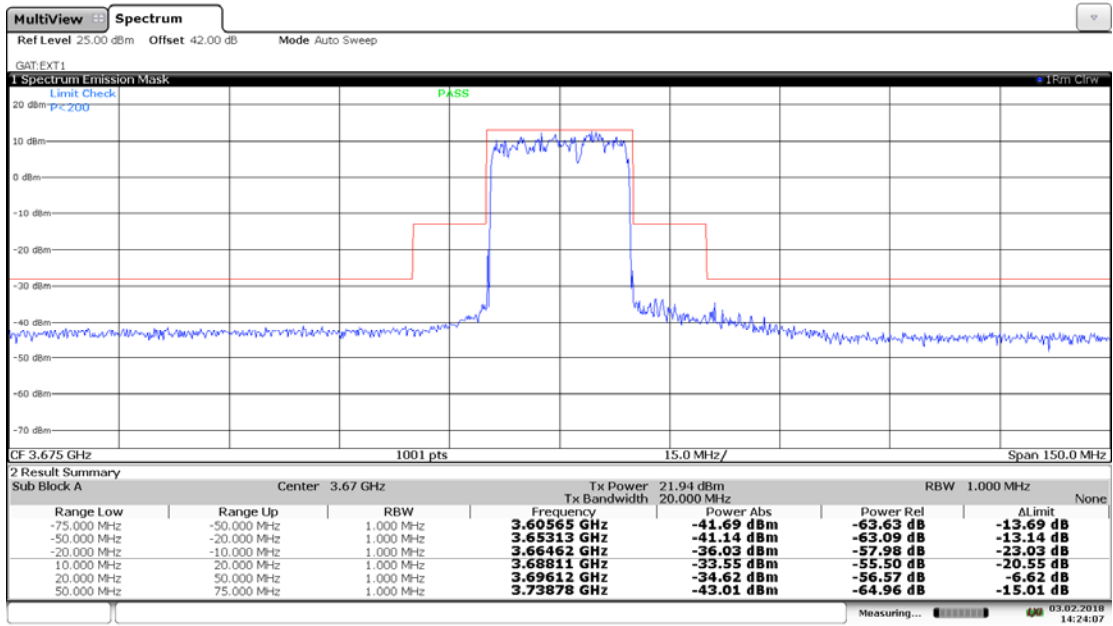
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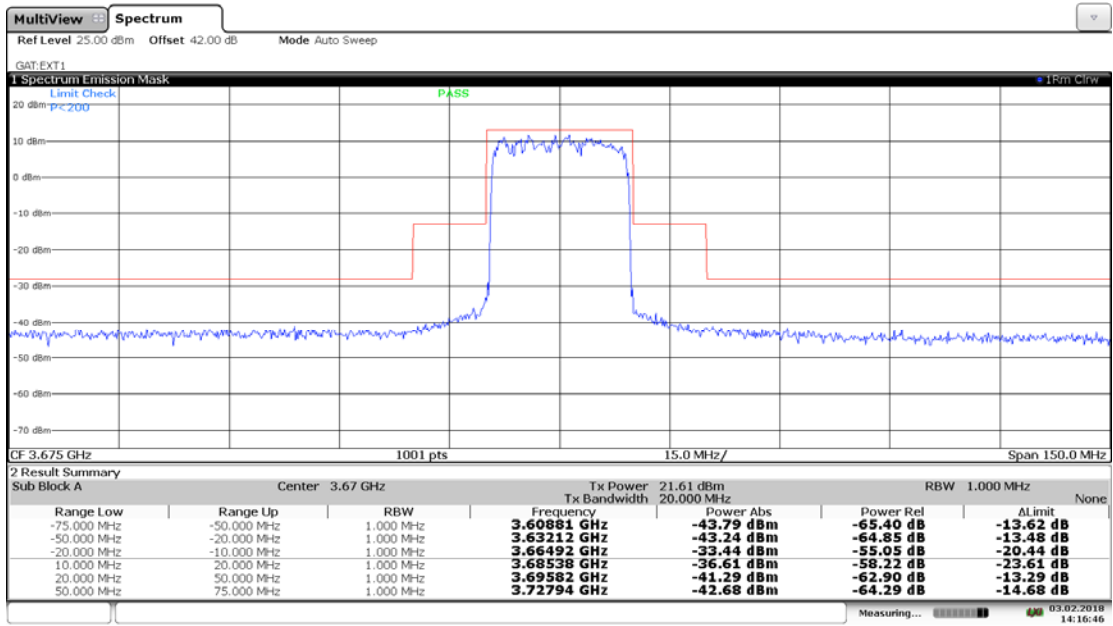
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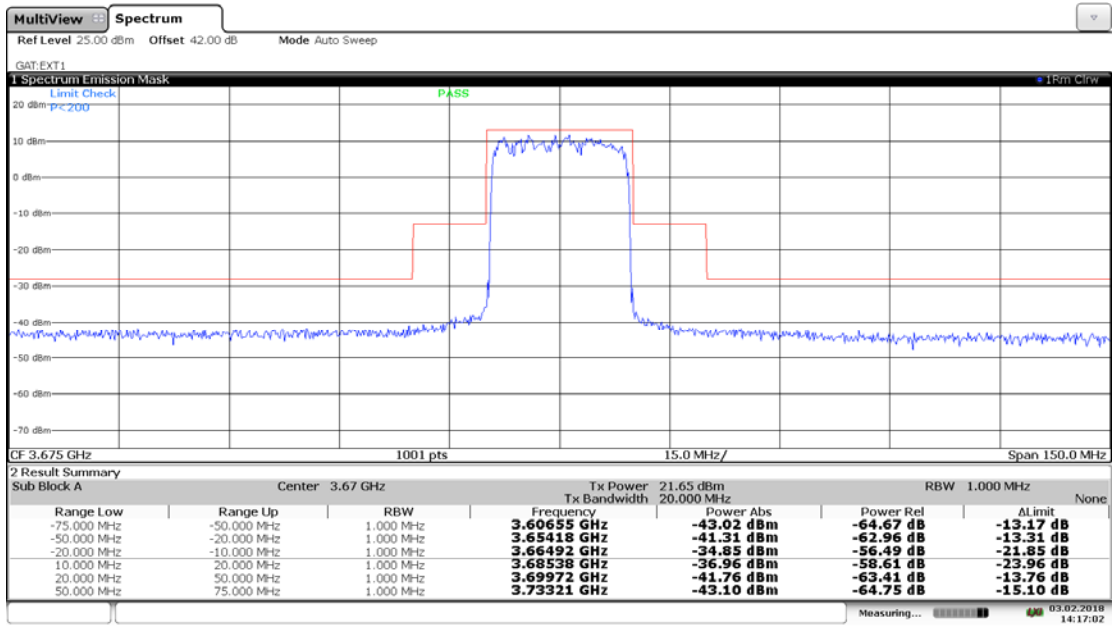
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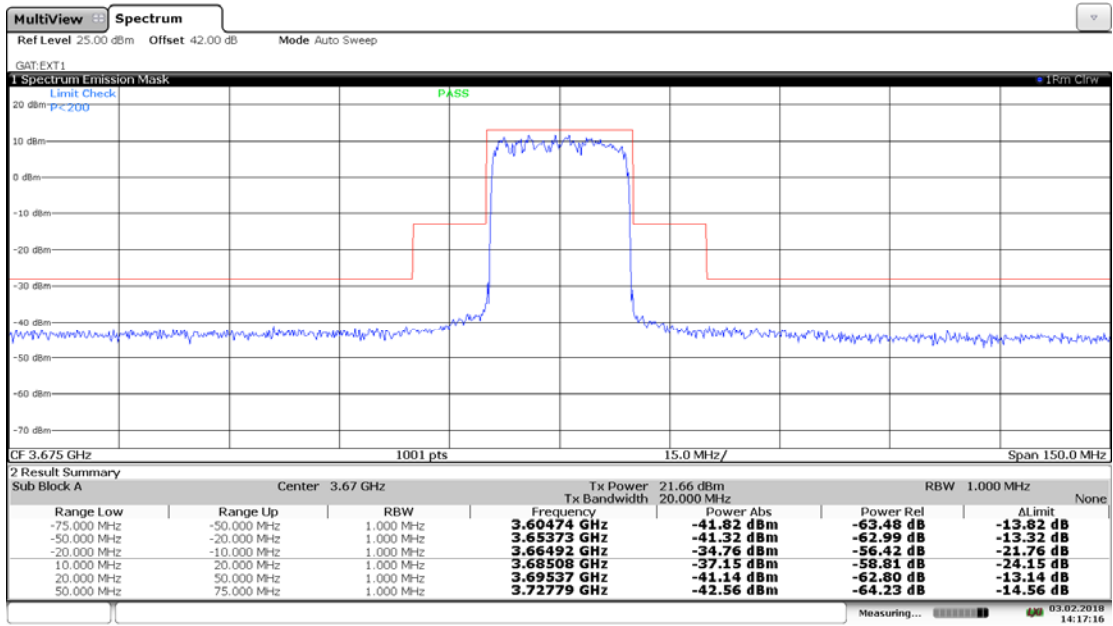
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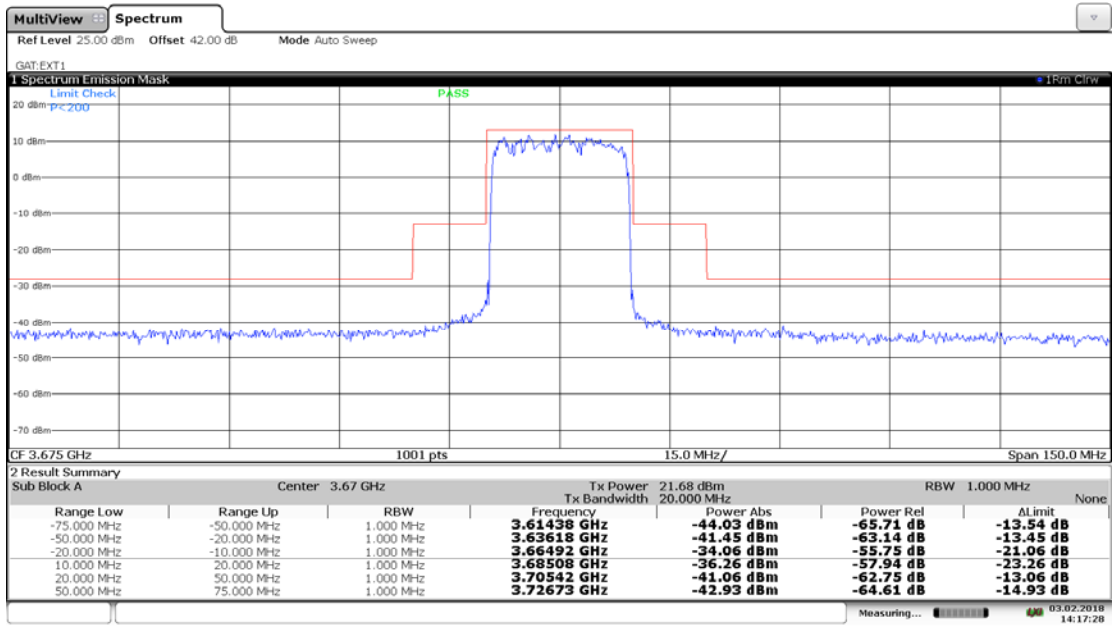
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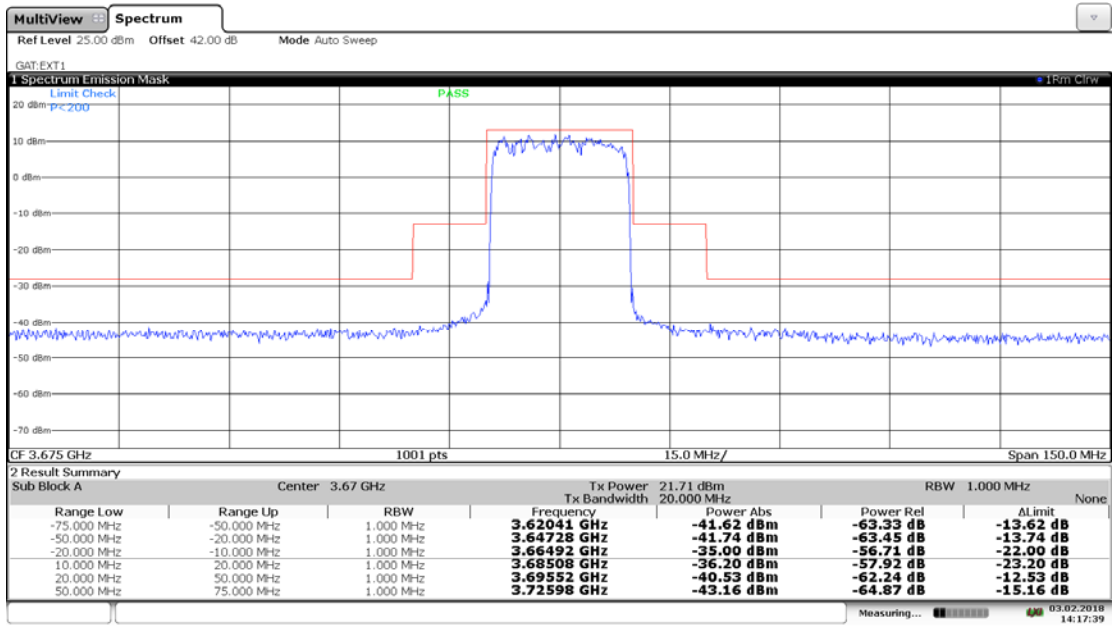
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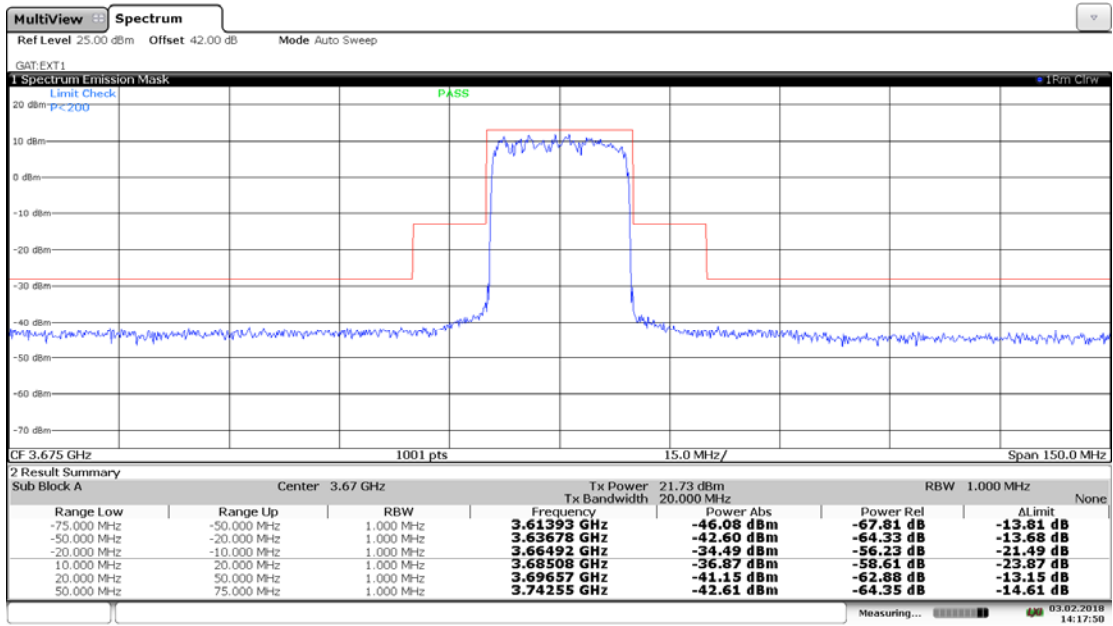
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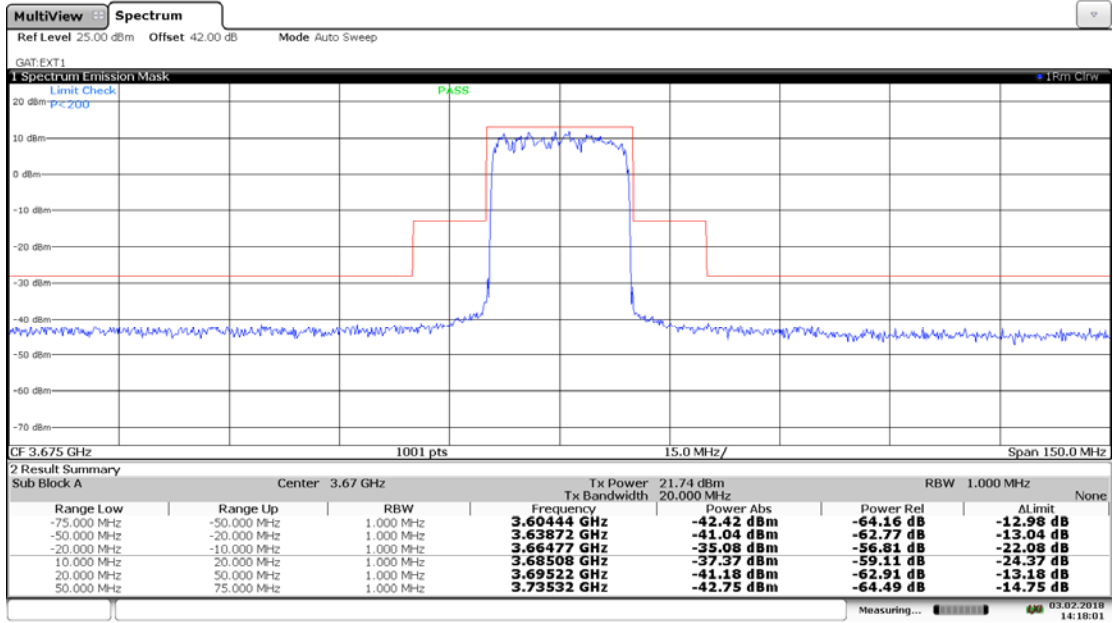
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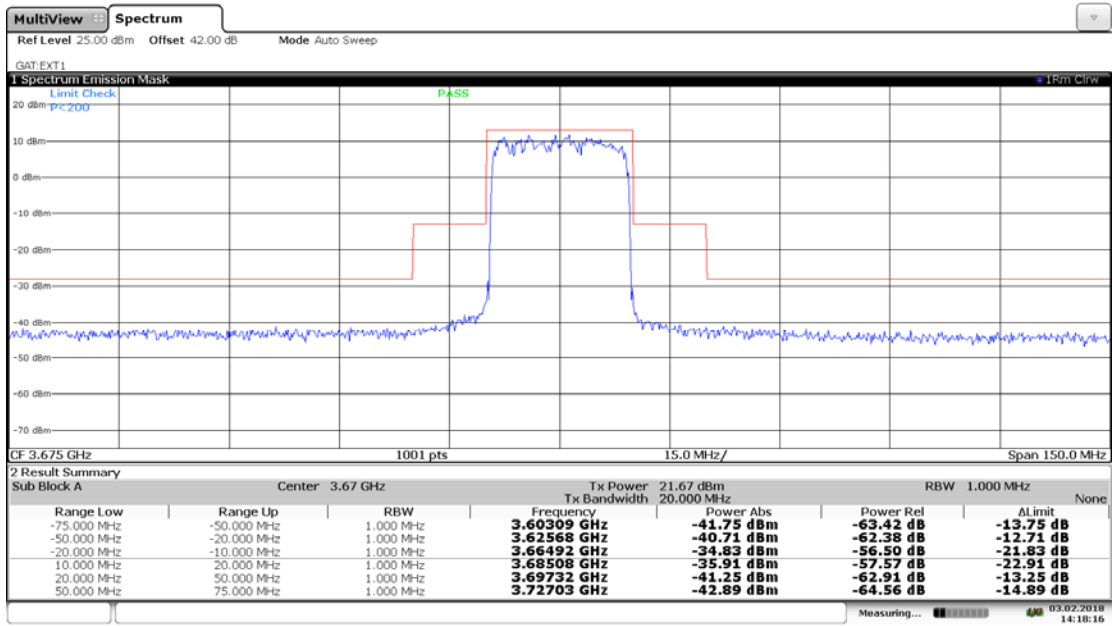
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14:17:51 03.02.2018

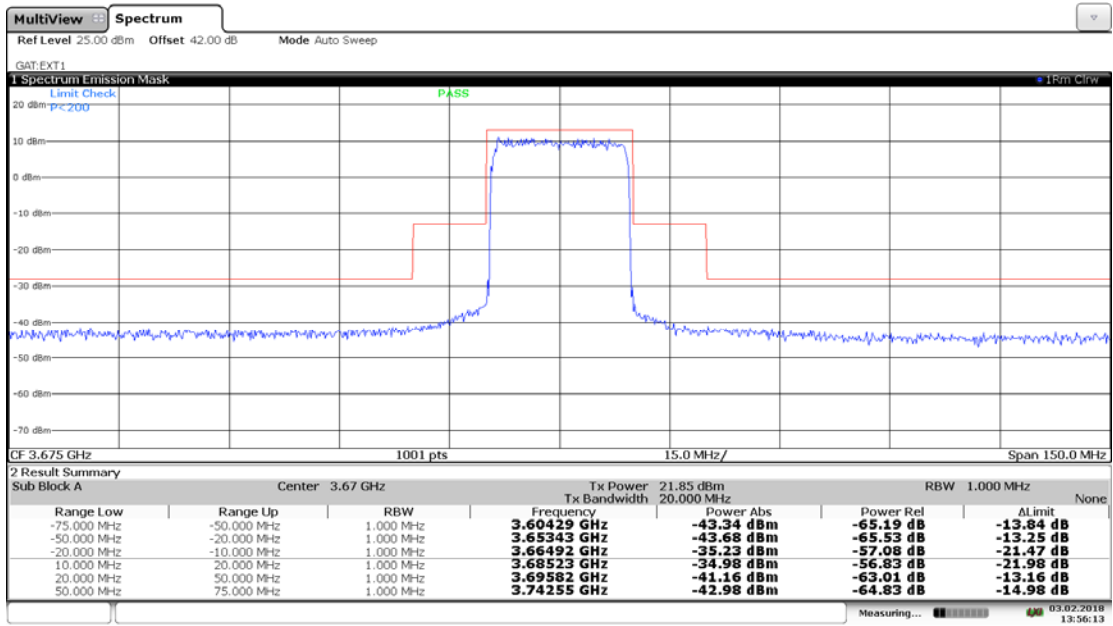


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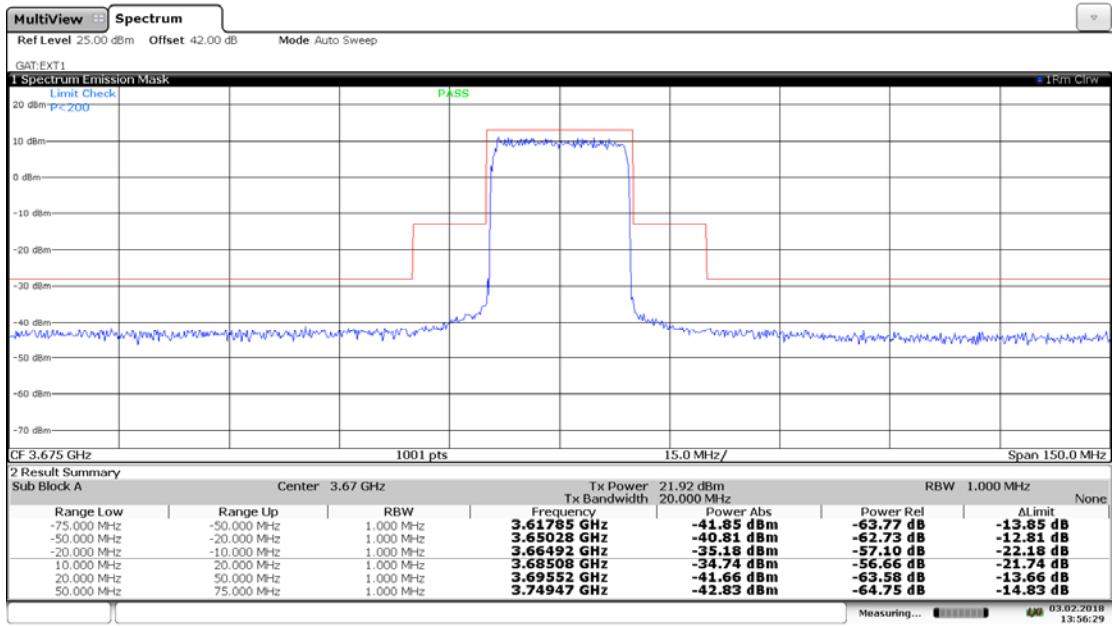


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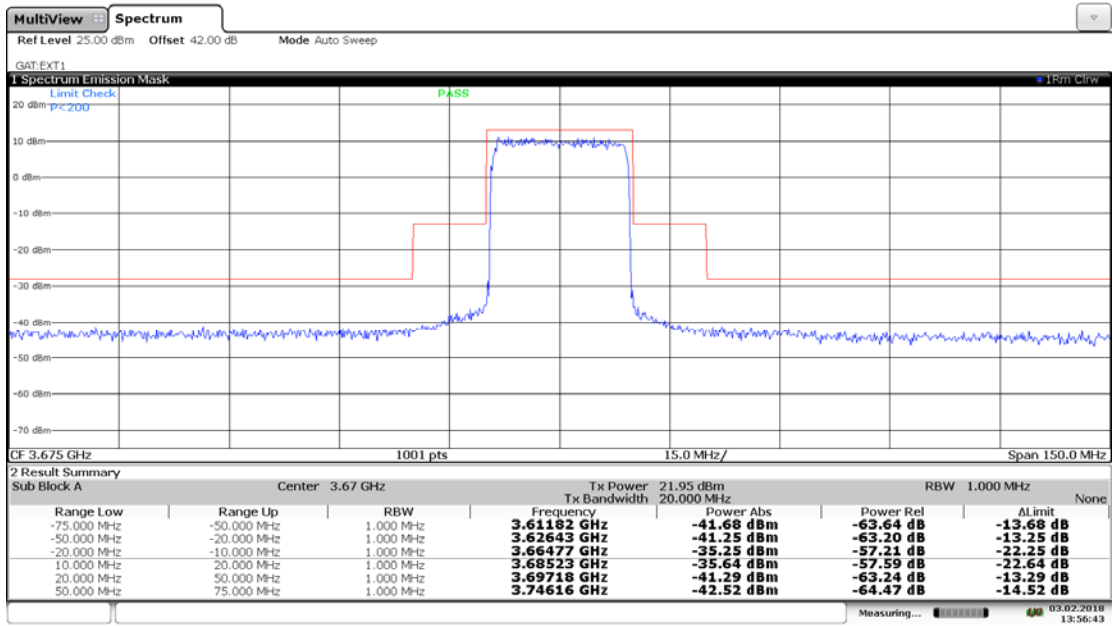




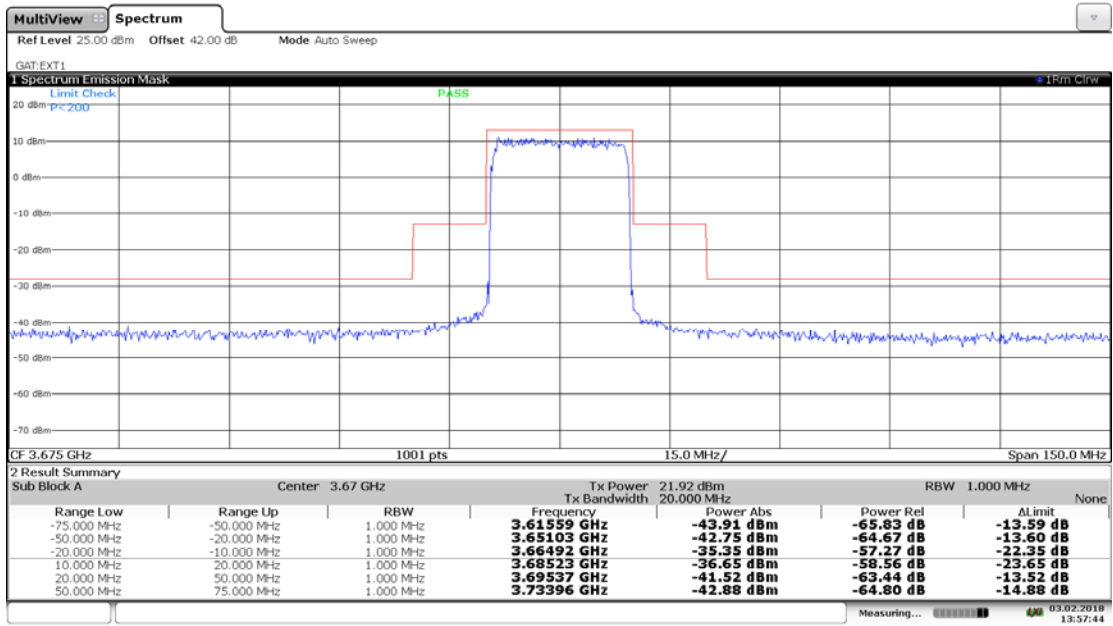
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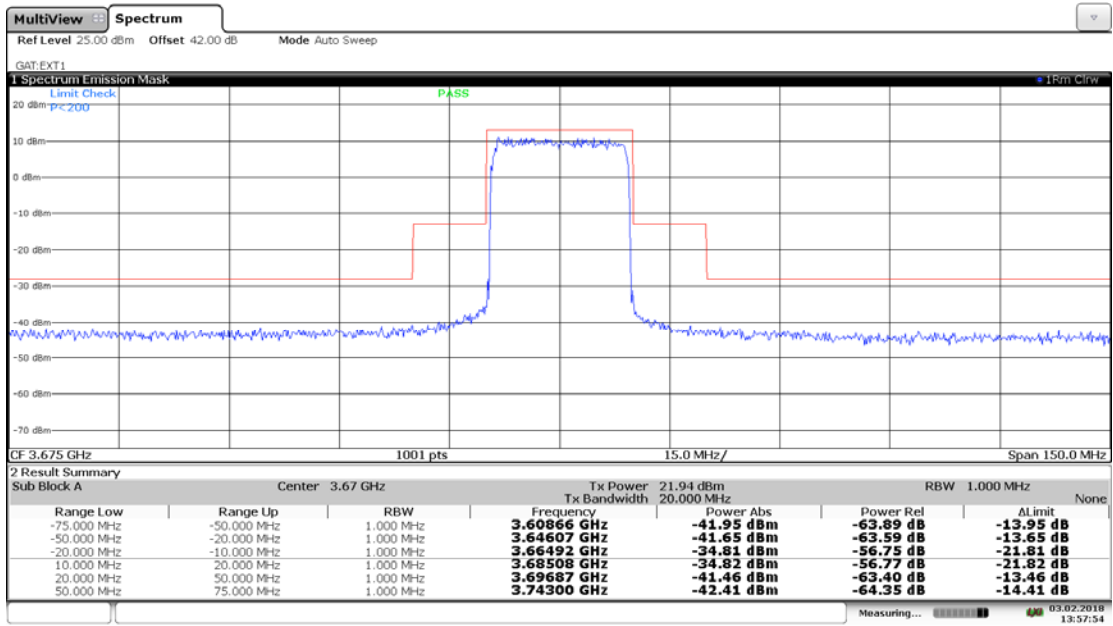
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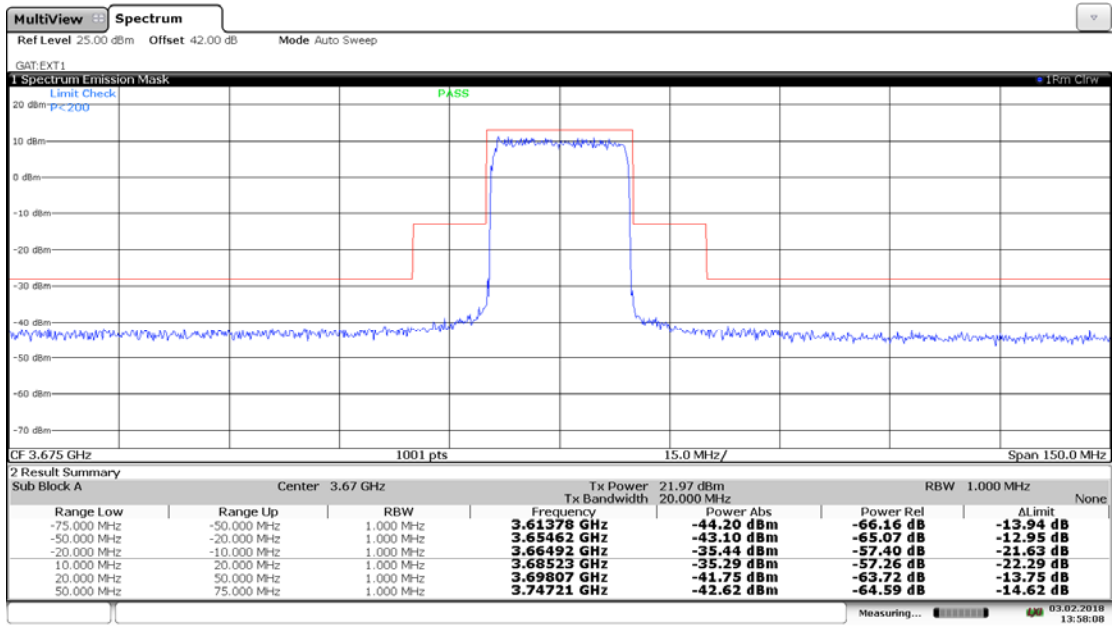
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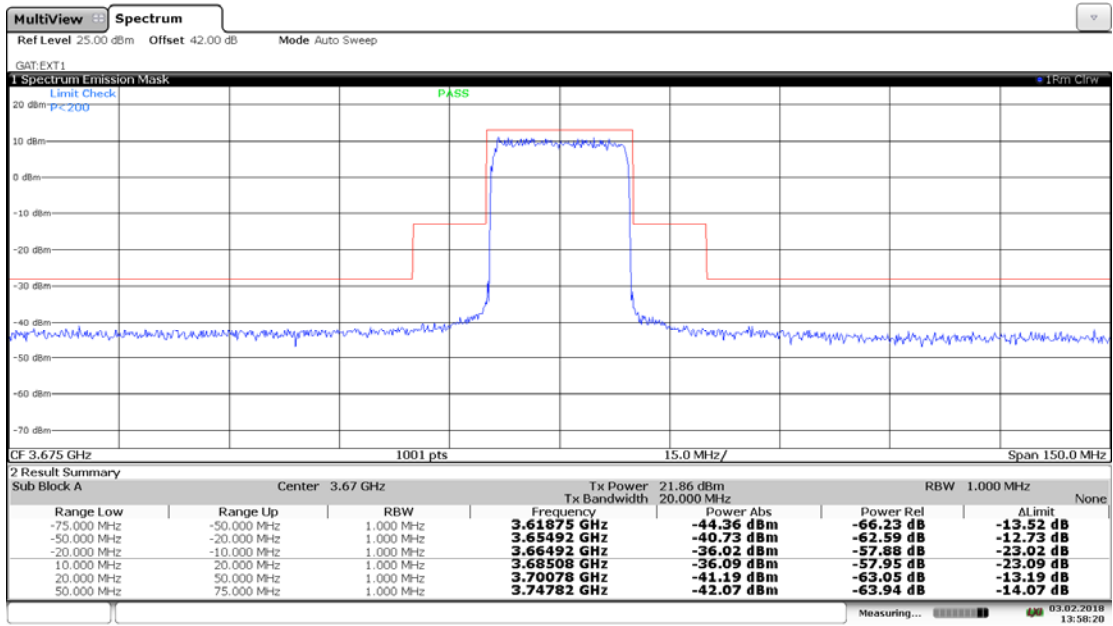
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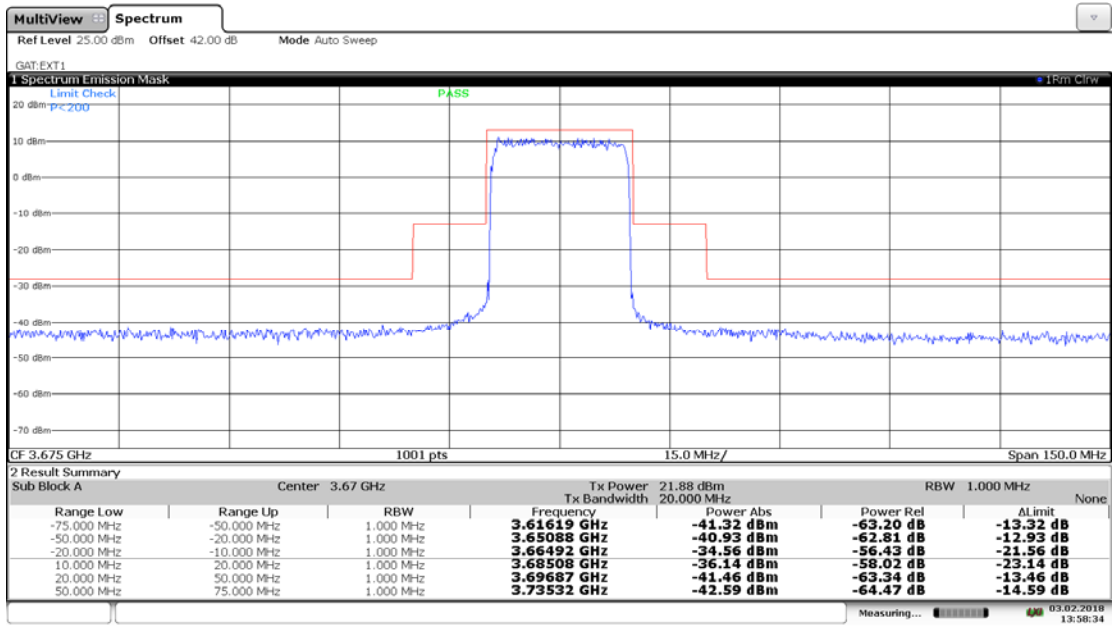
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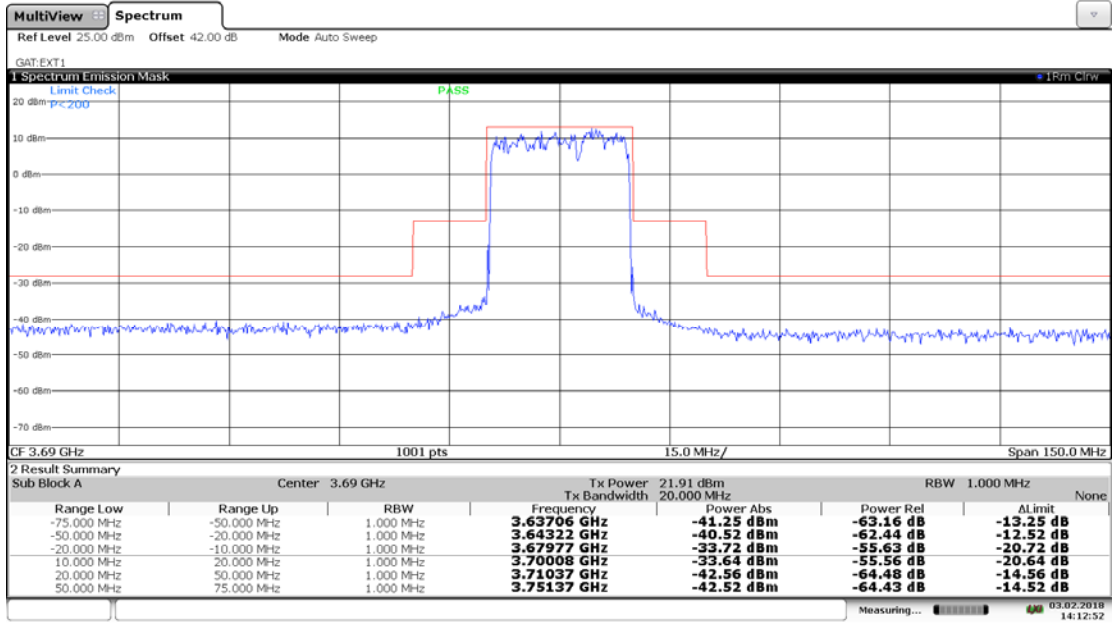
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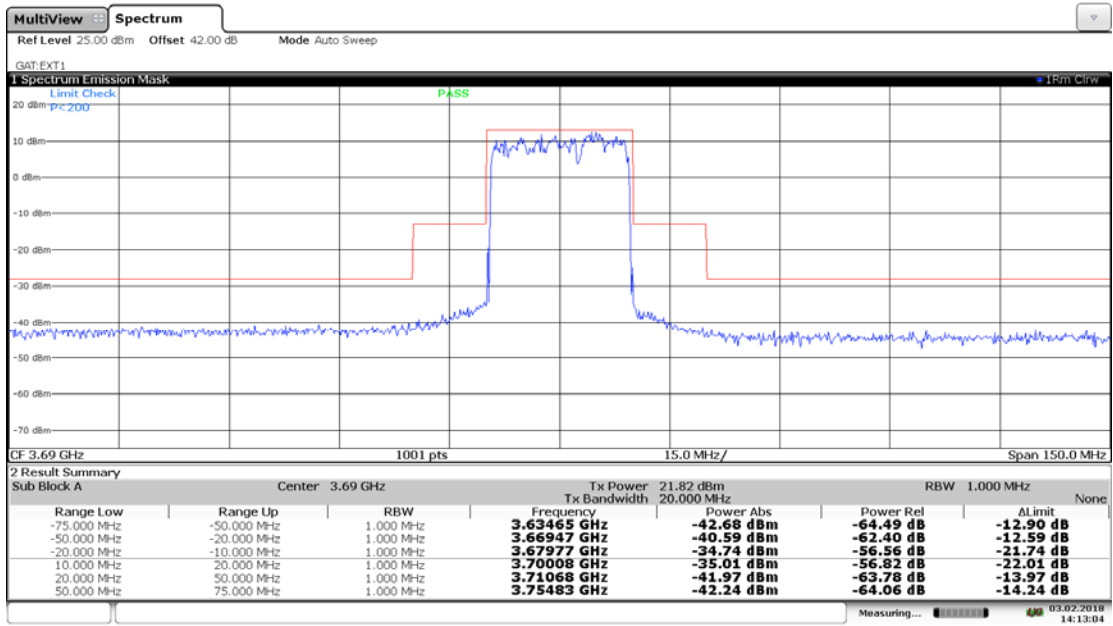
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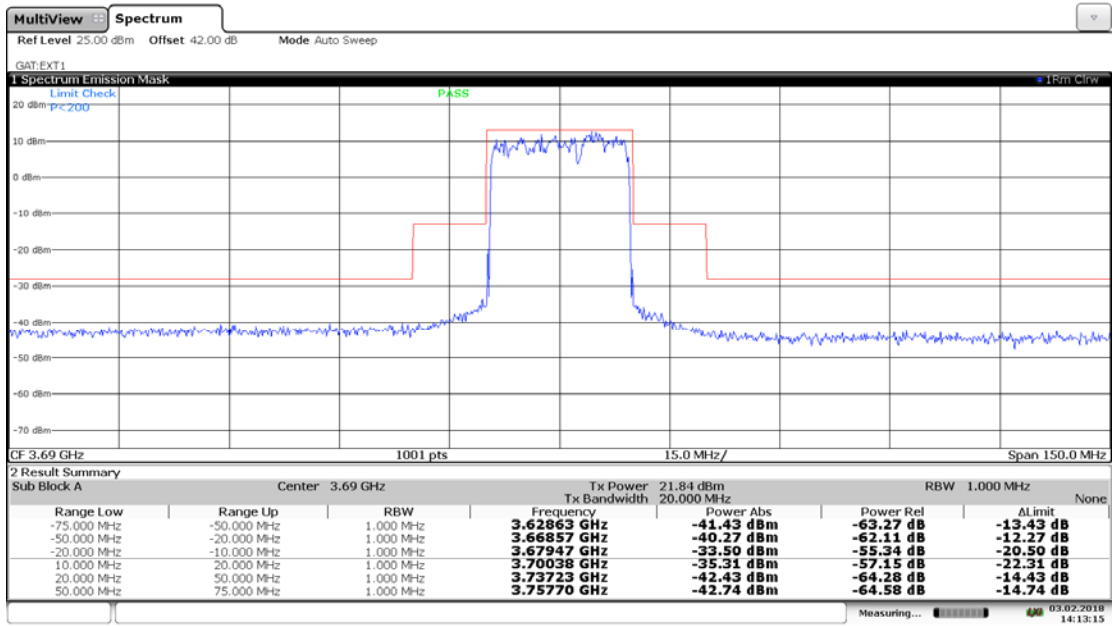
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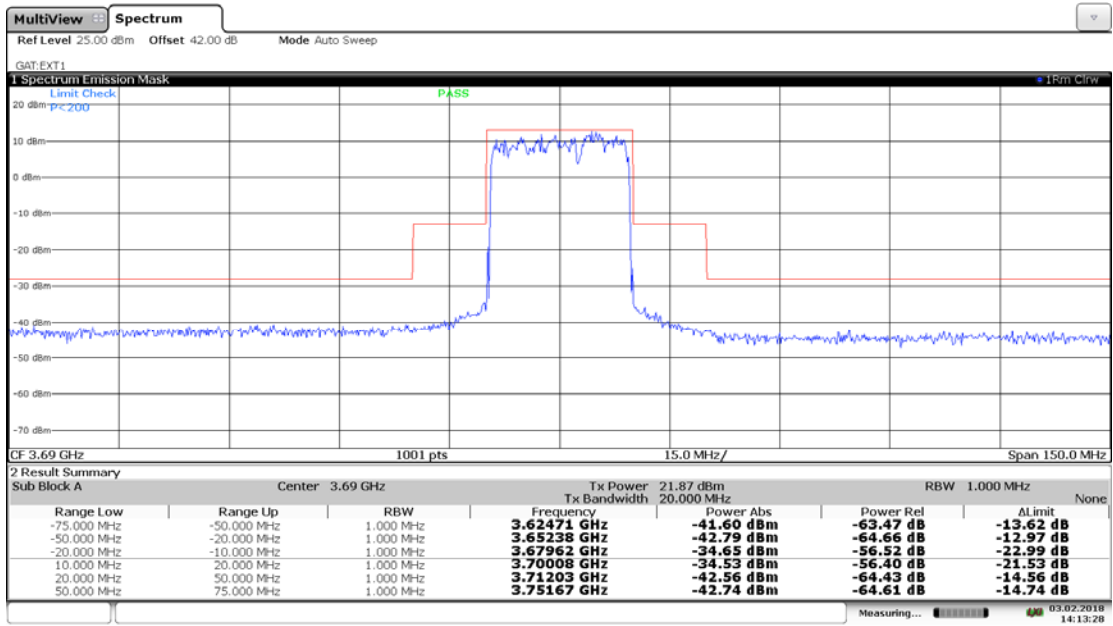
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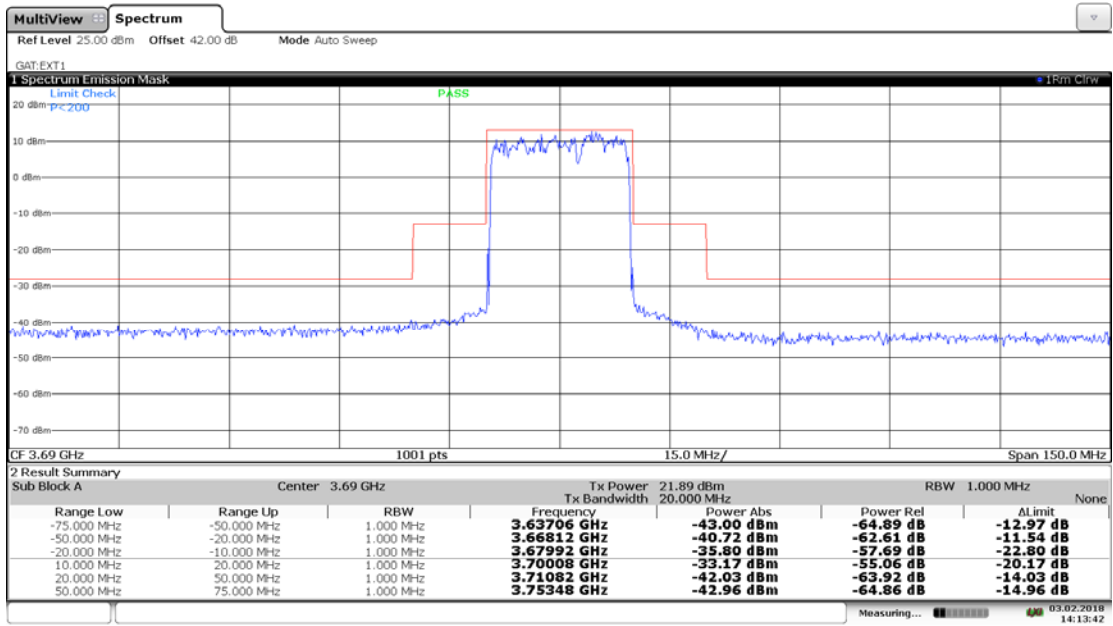
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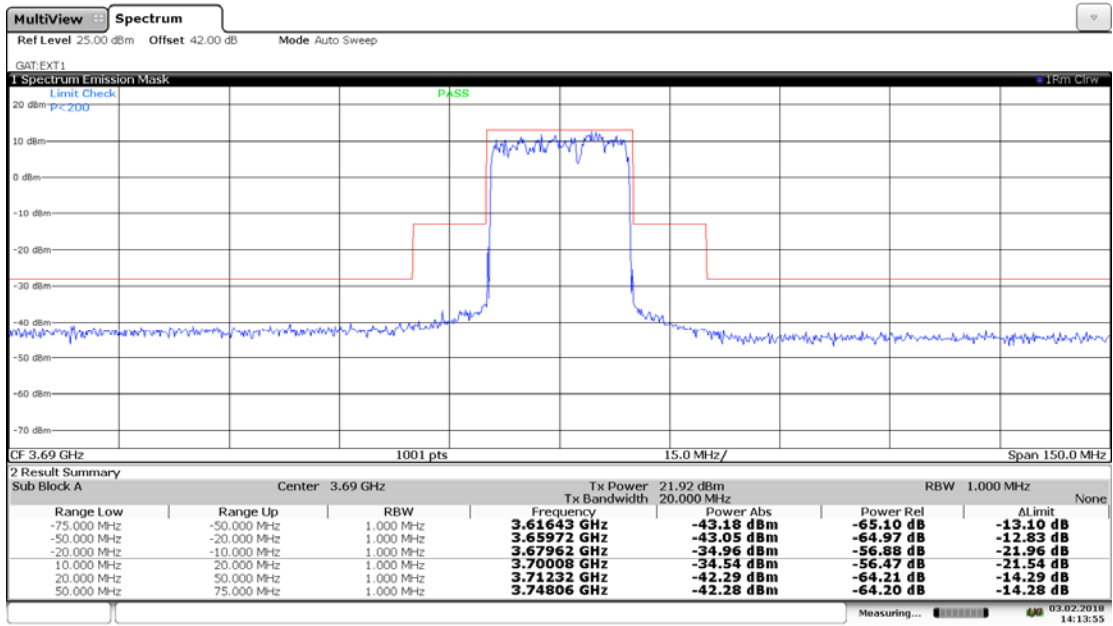
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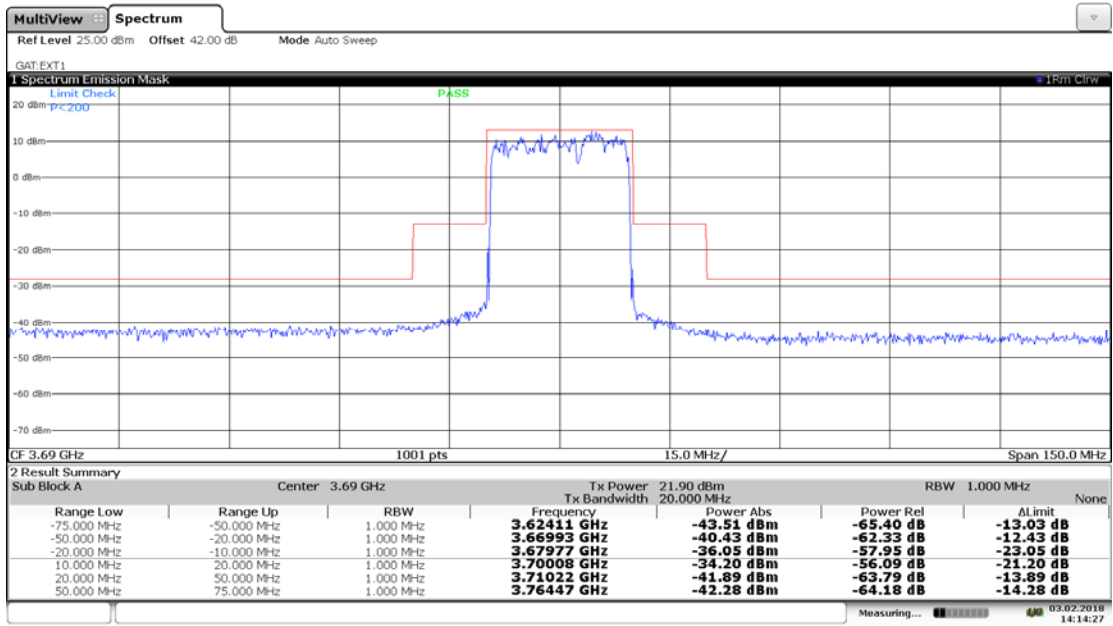
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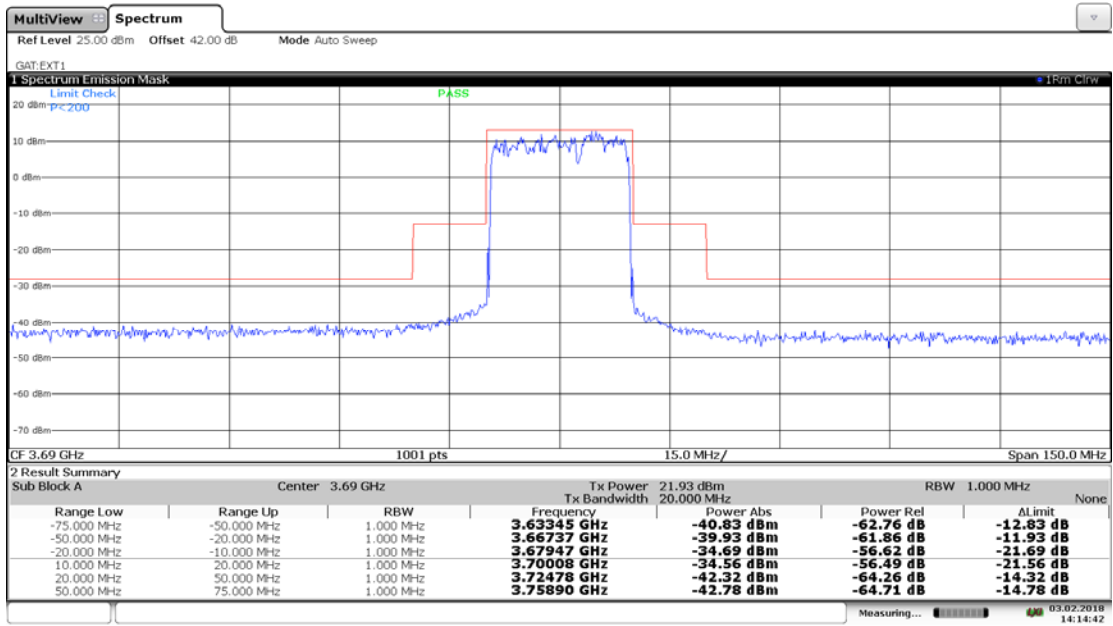
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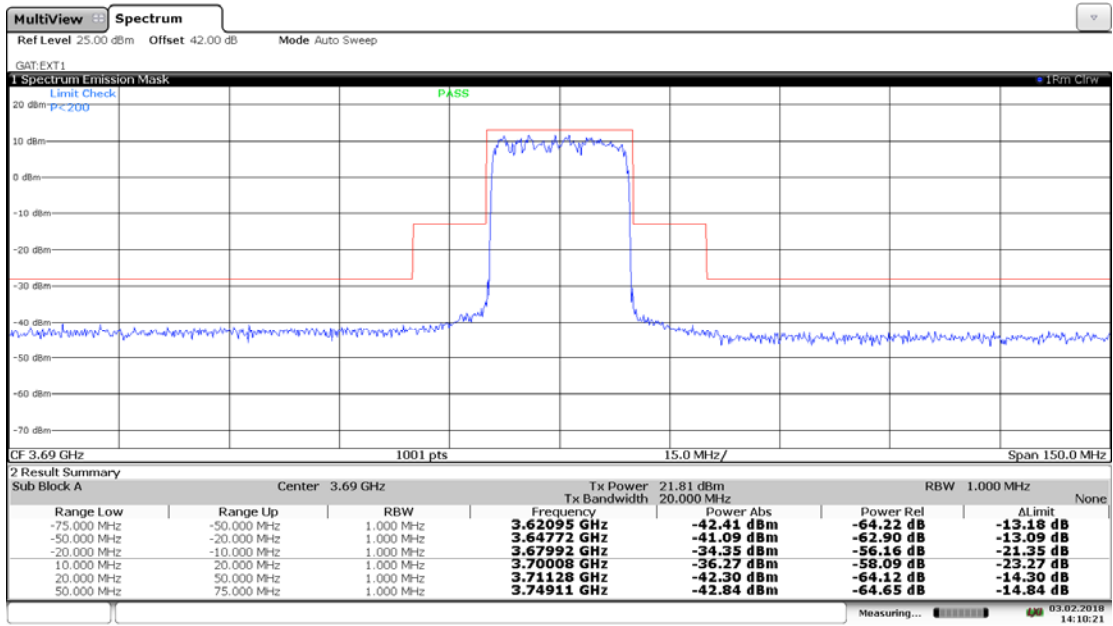


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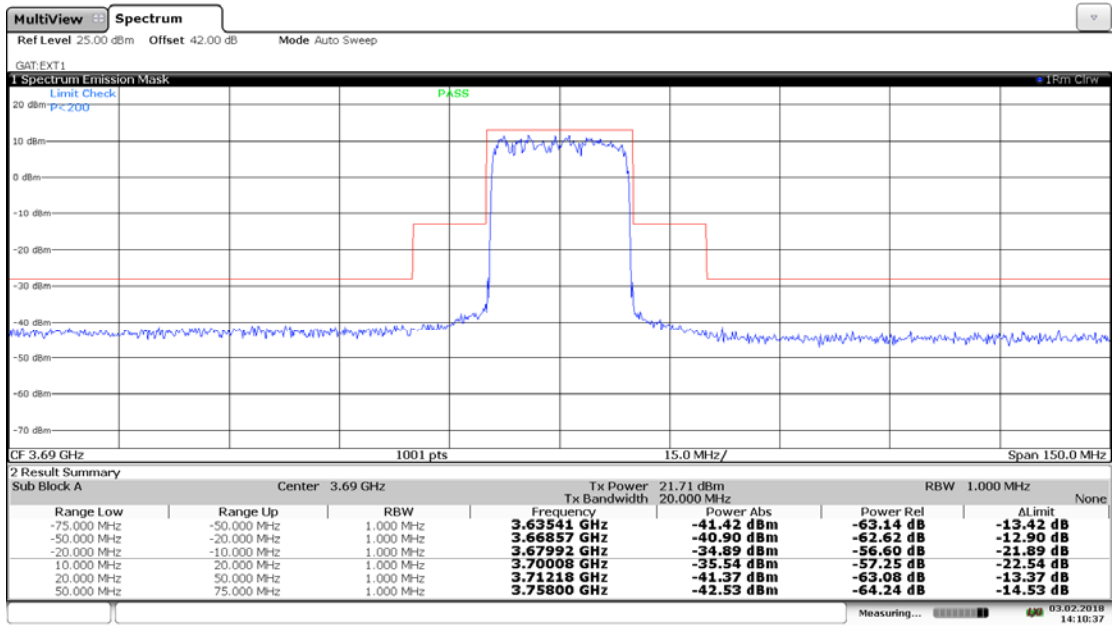


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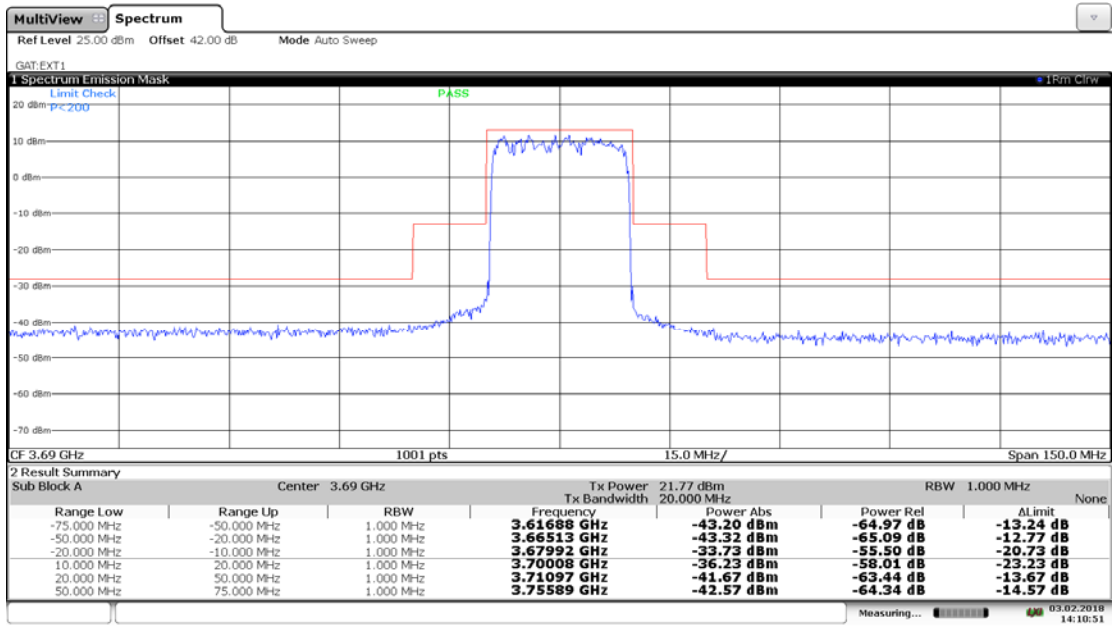




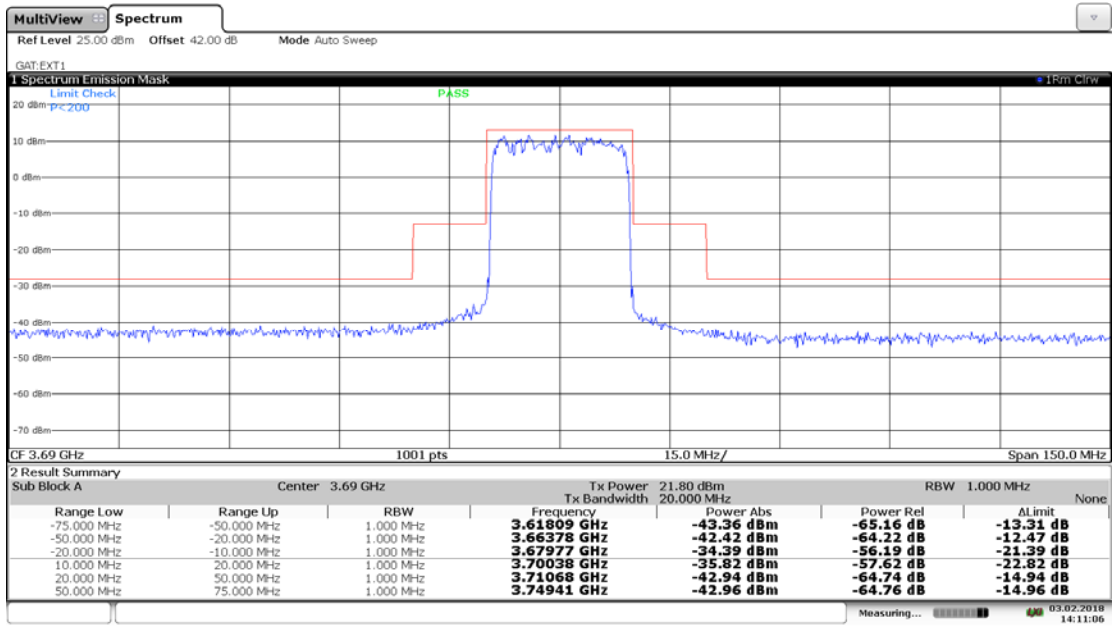
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14:10:37 03.02.2018



14:10:52 03.02.2018



14:11:07 03.02.2018