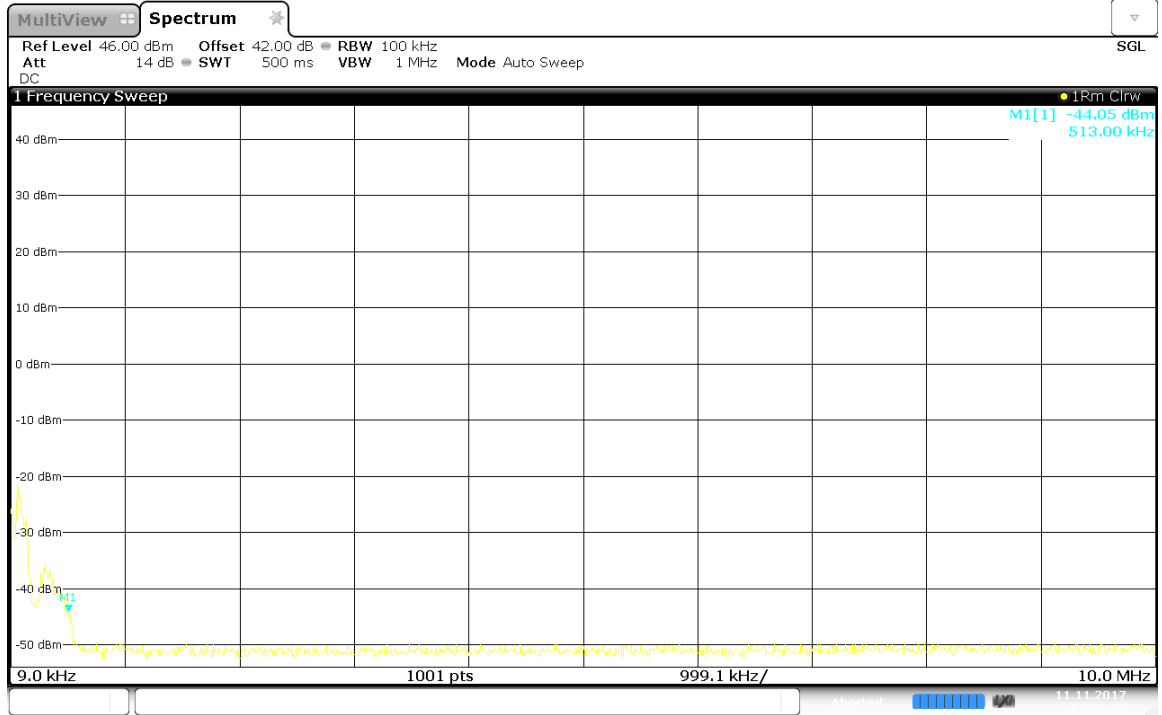
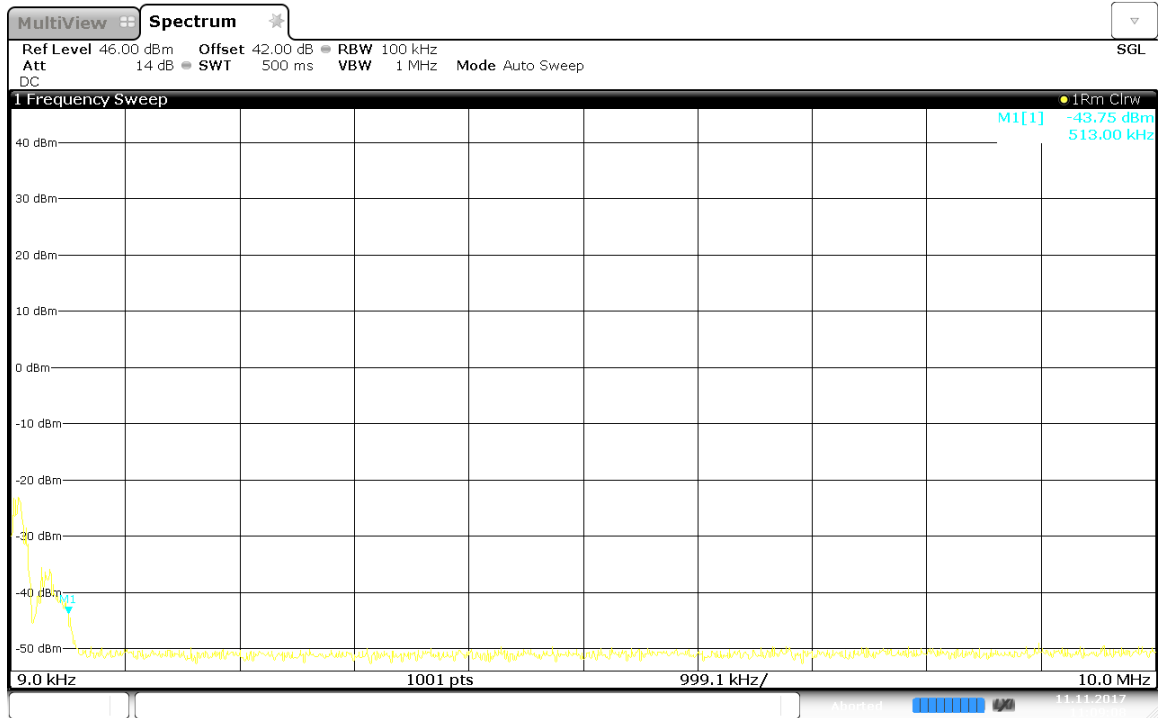


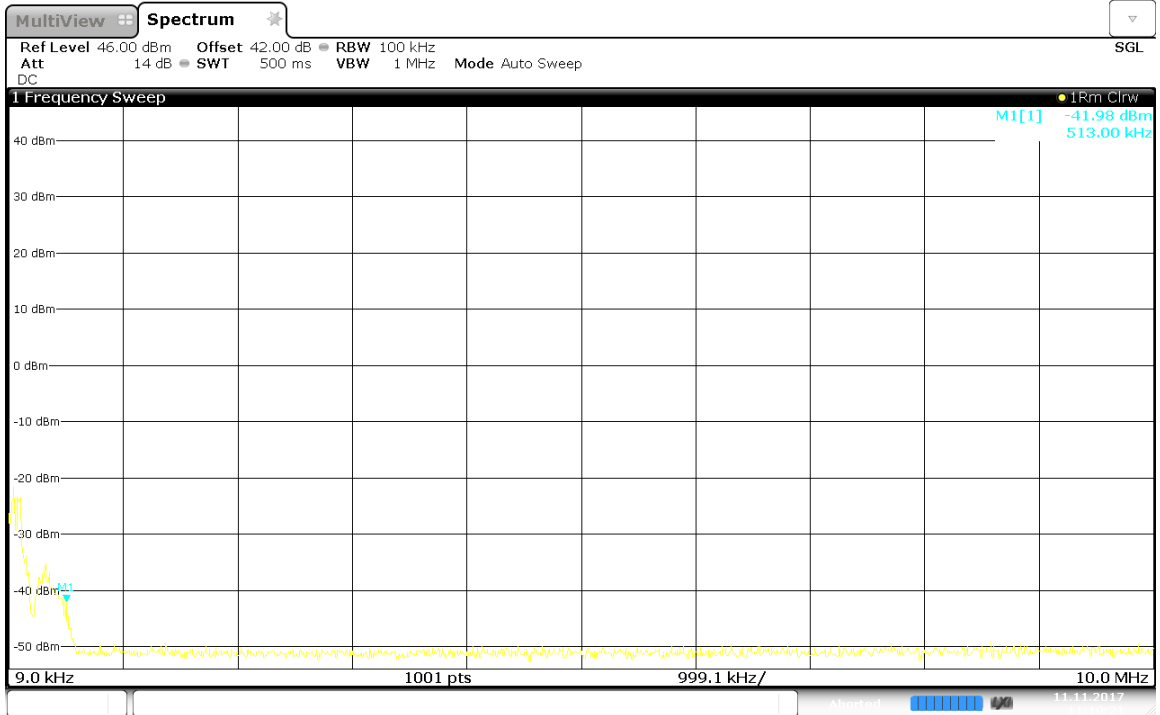
15M+15M-2670MHz-Port1~4:



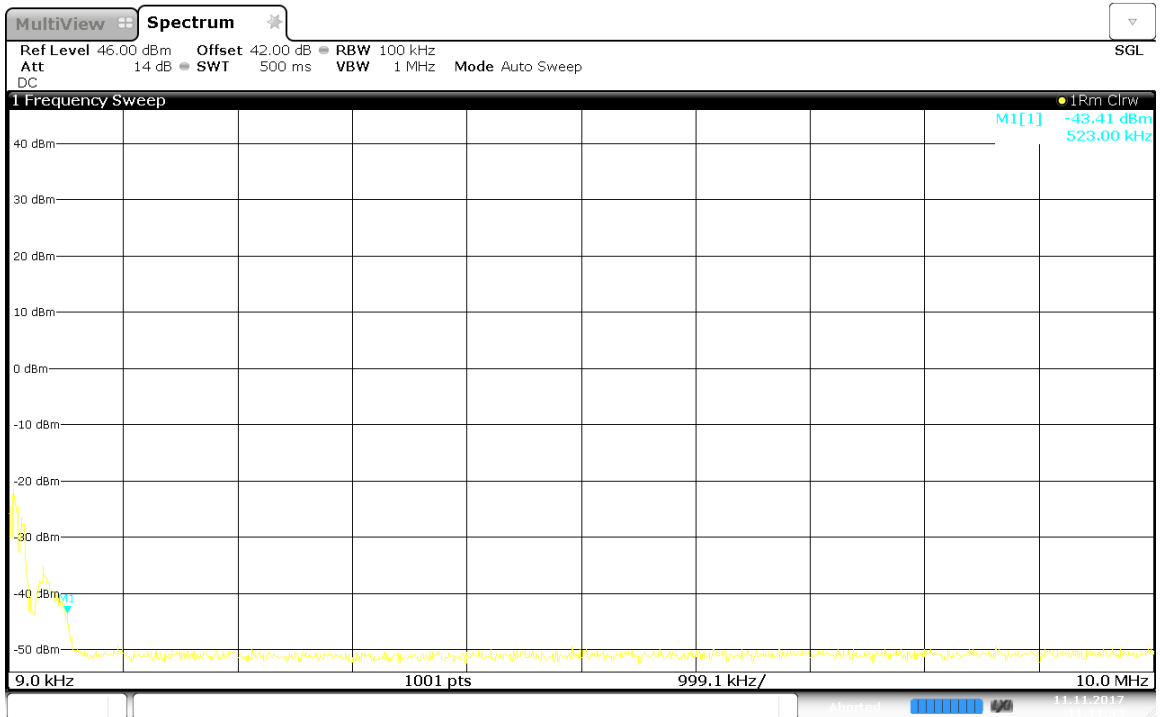
11:07:56 11.11.2017



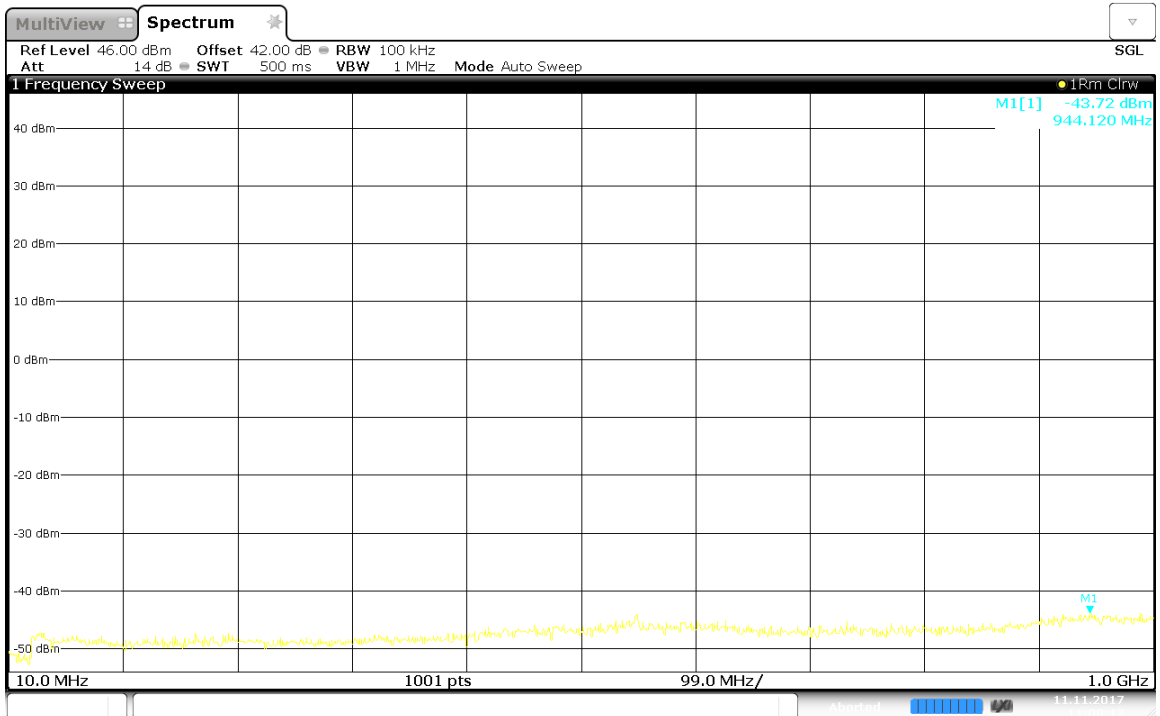
11:09:08 11.11.2017



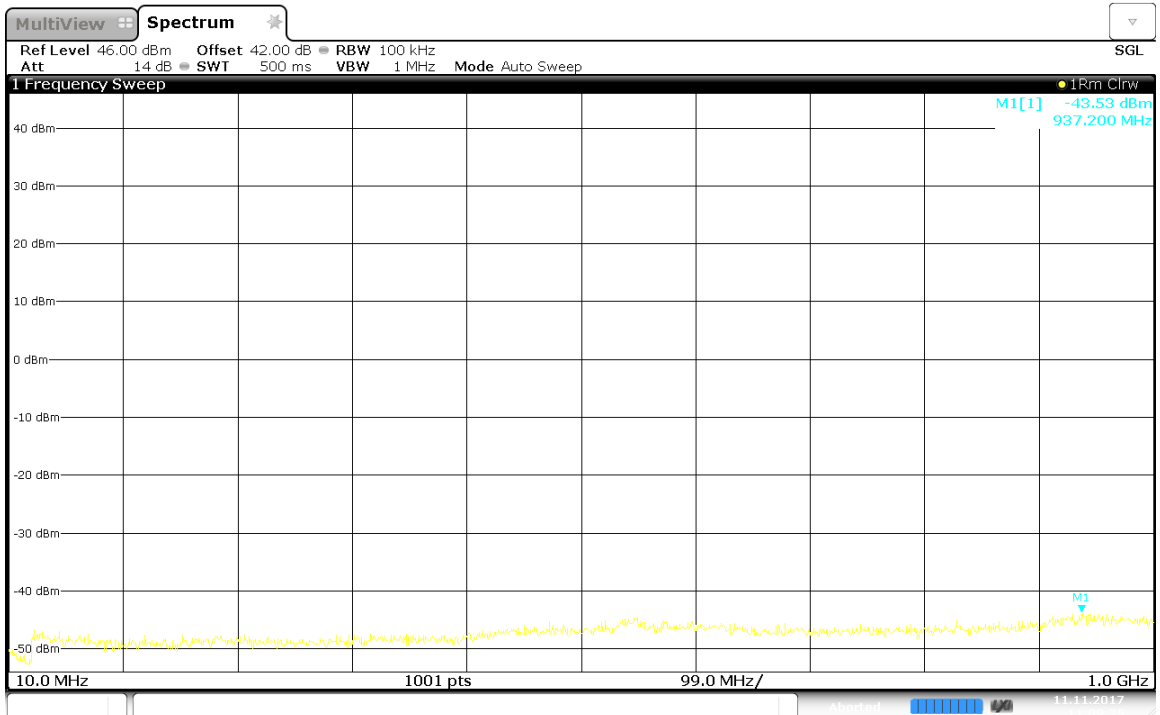
11:10:21 11.11.2017



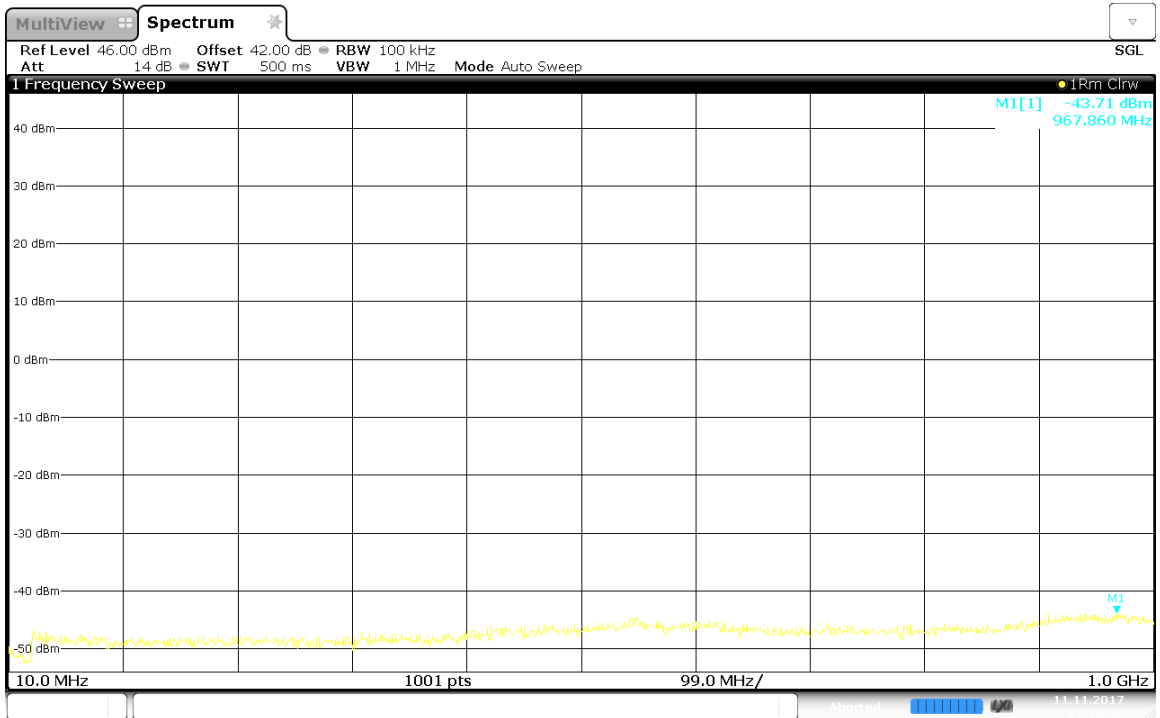
11:11:34 11.11.2017



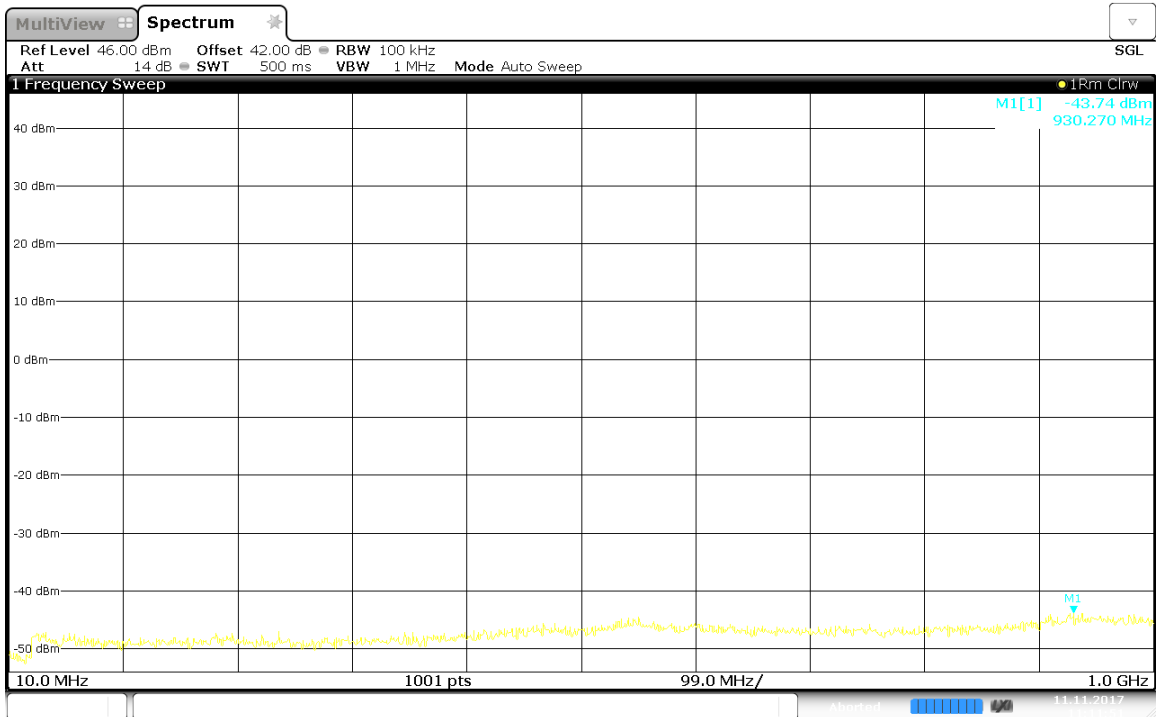
11:08:13 11.11.2017



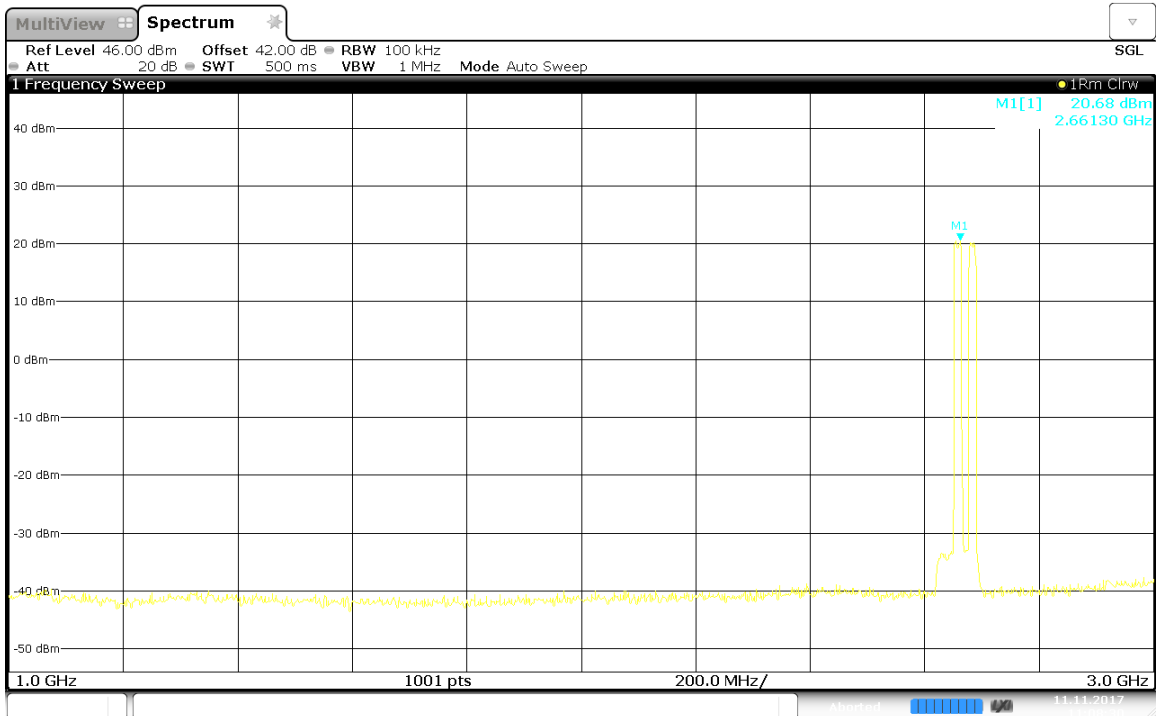
11:09:26 11.11.2017



11:10:39 11.11.2017



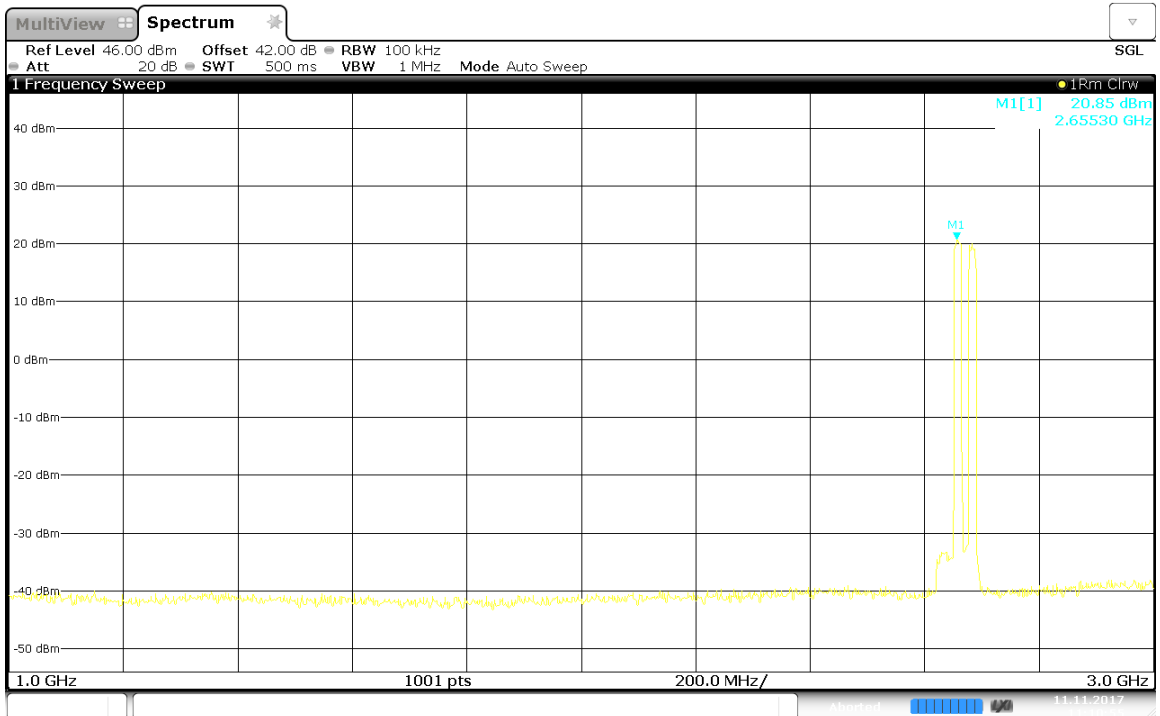
11:11:51 11.11.2017



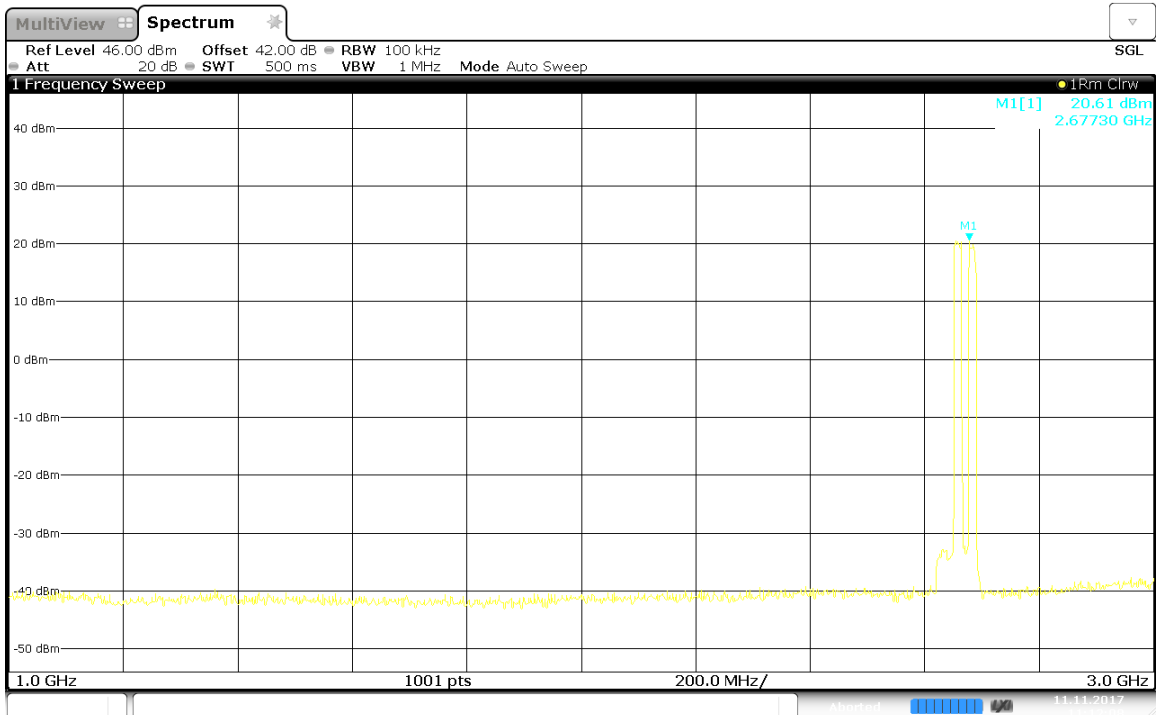
11:08:30 11.11.2017



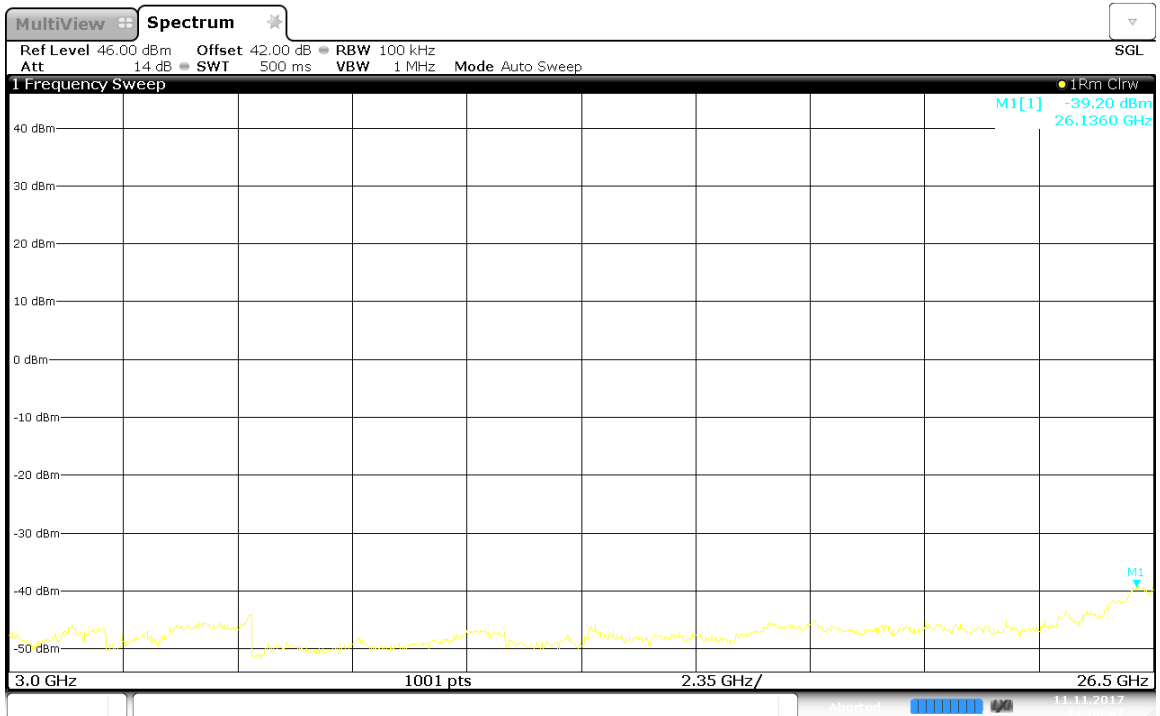
11:09:43 11.11.2017



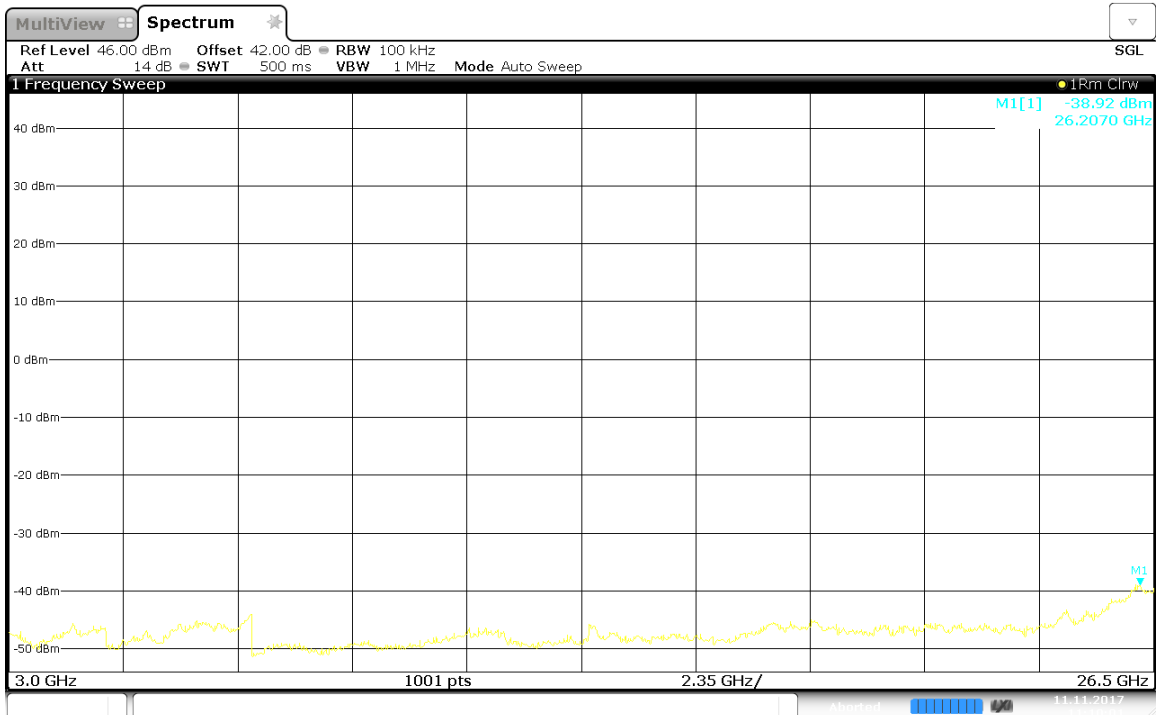
11:10:56 11.11.2017



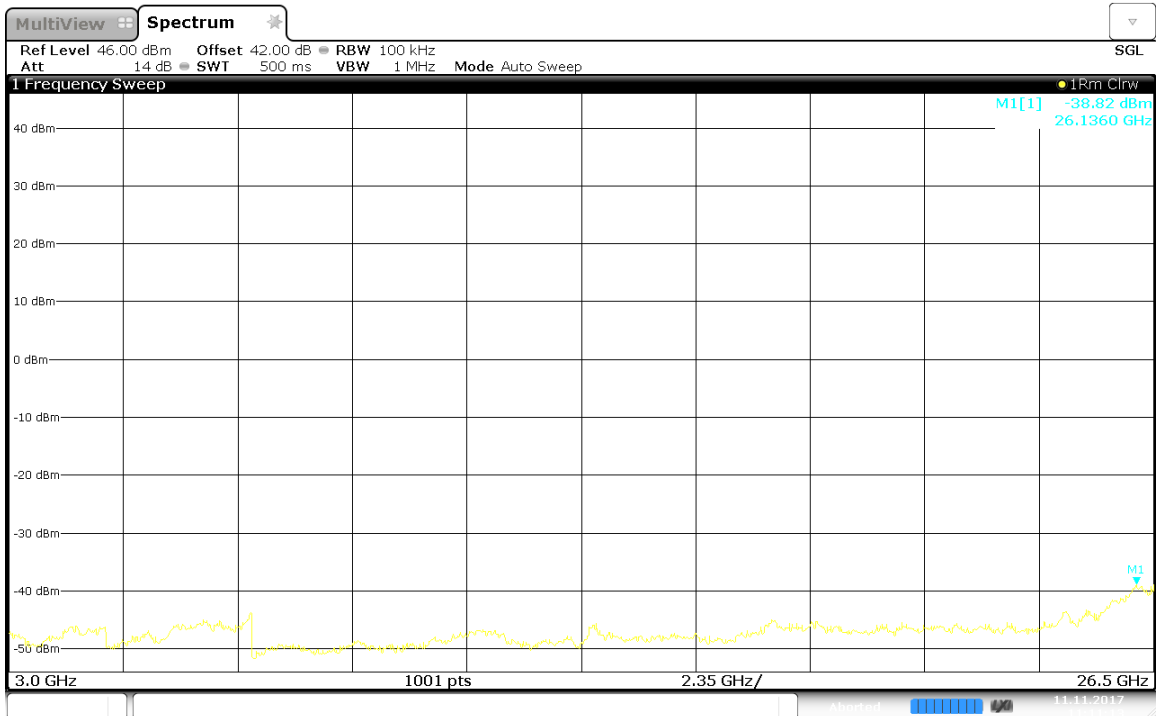
11:12:09 11.11.2017



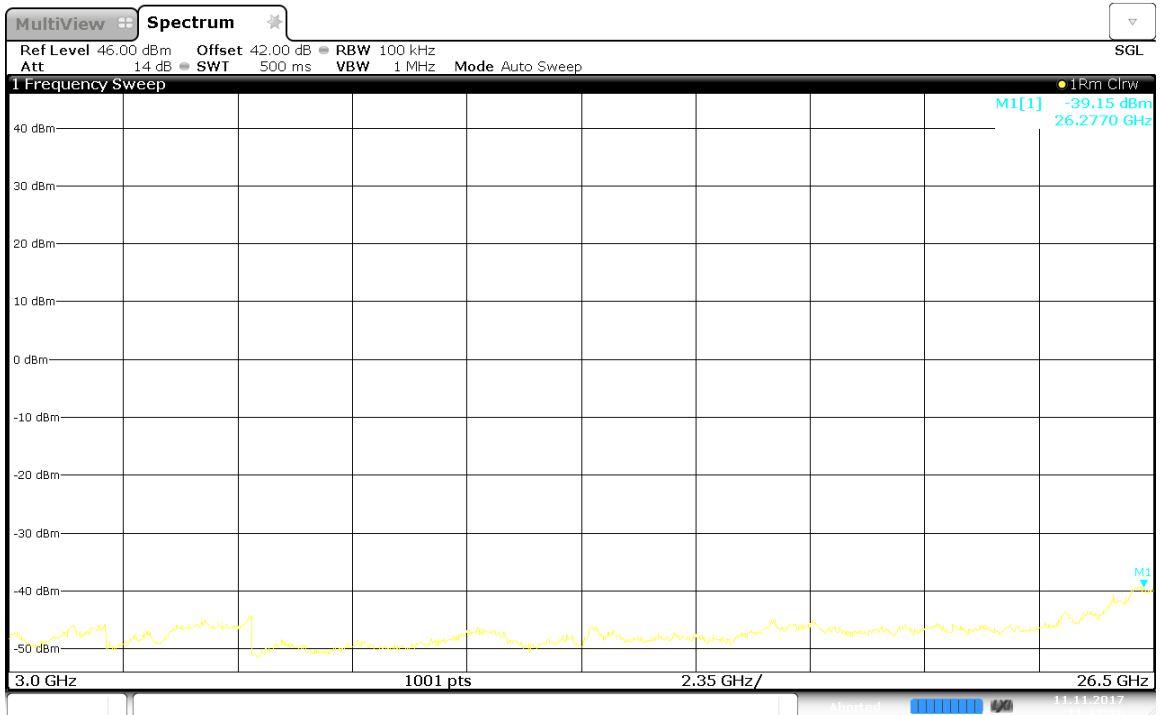
11:08:48 11.11.2017



11:10:01 11.11.2017

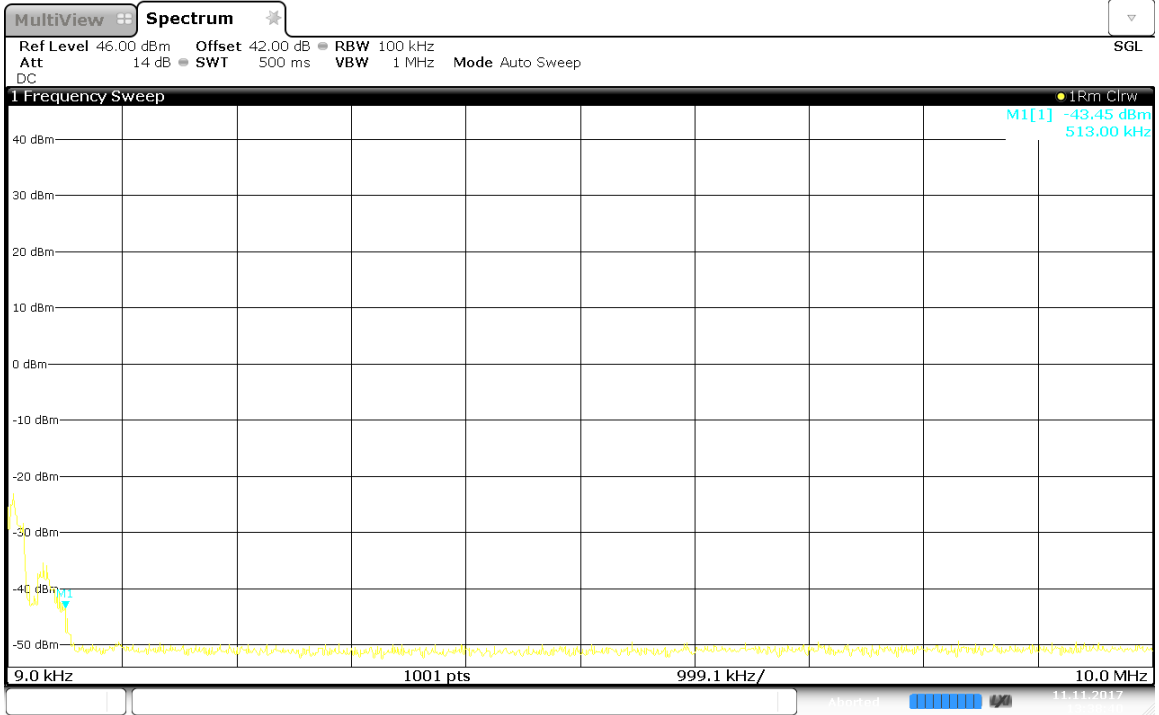


11:11:13 11.11.2017

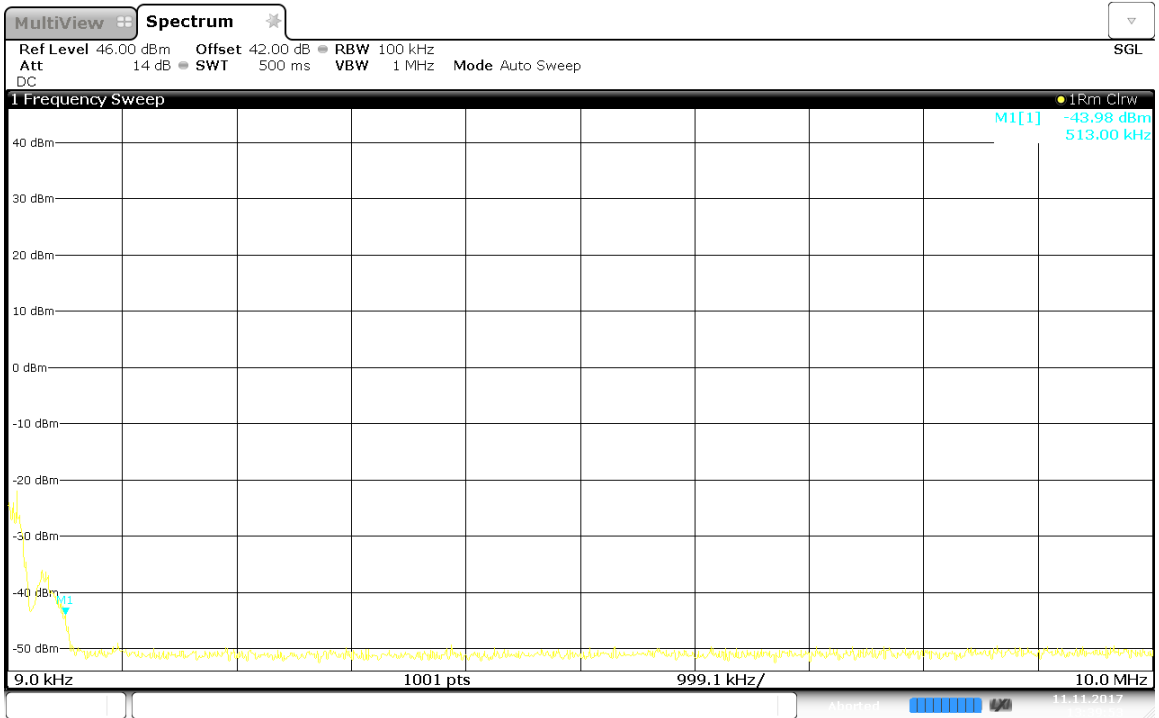


11:12:26 11.11.2017

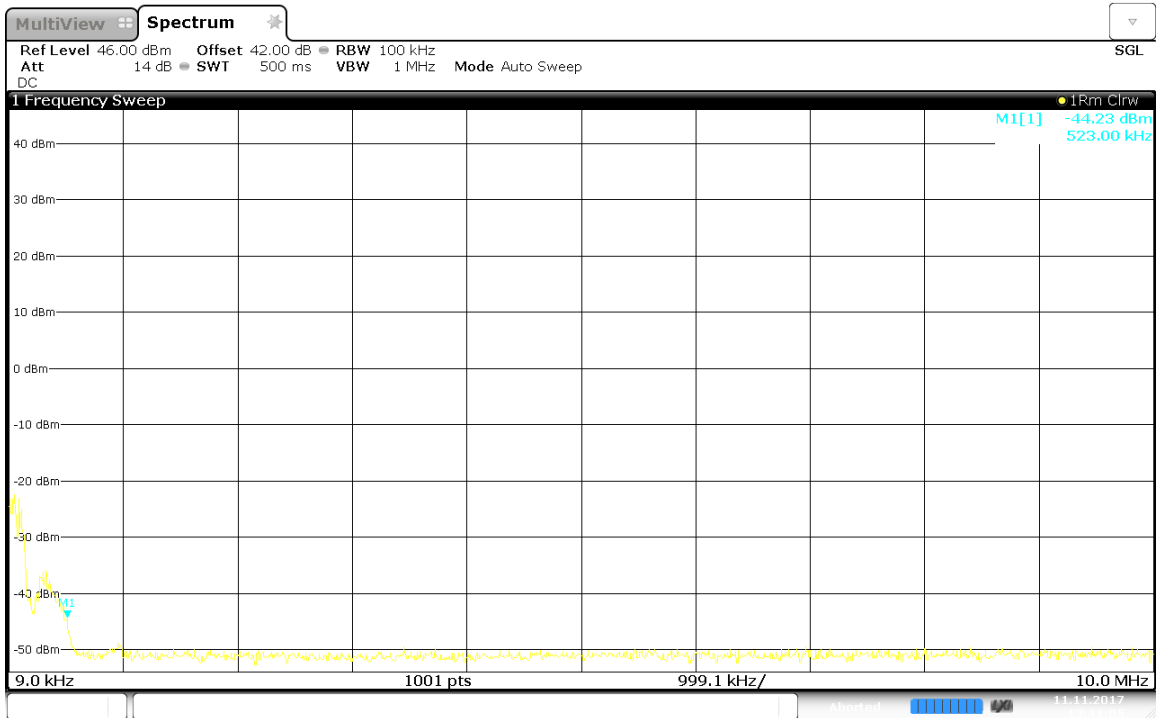
20M+20M-2640MHz-Port1~4:



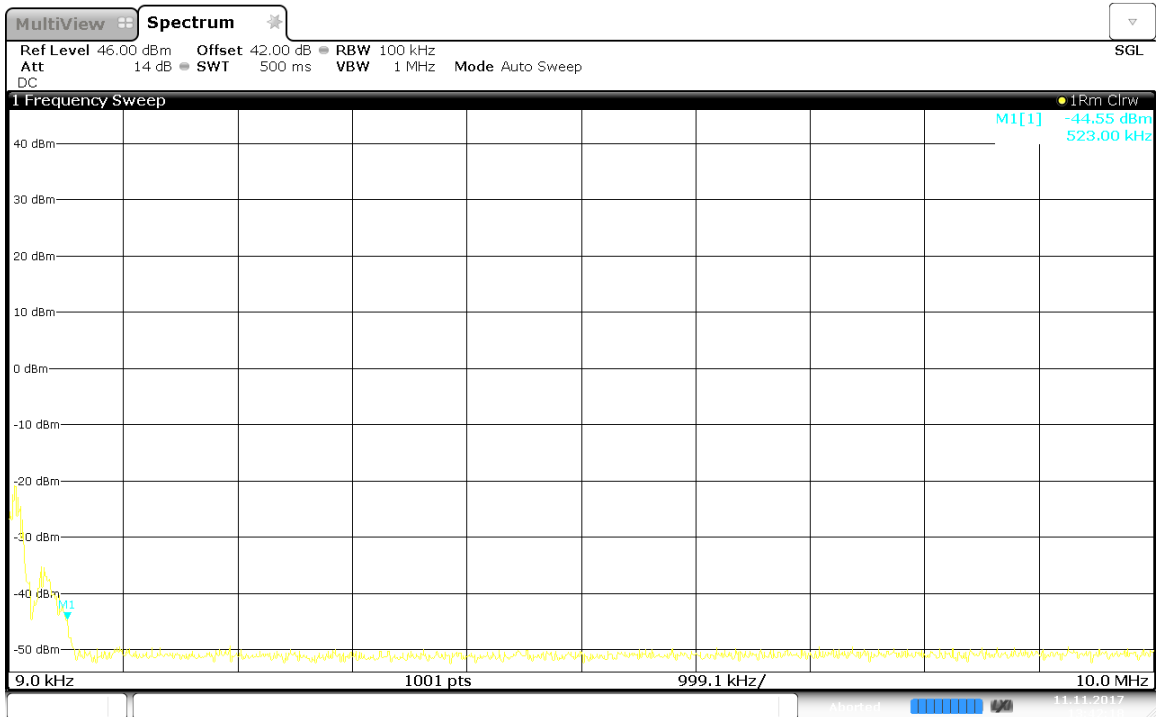
13:38:41 11.11.2017



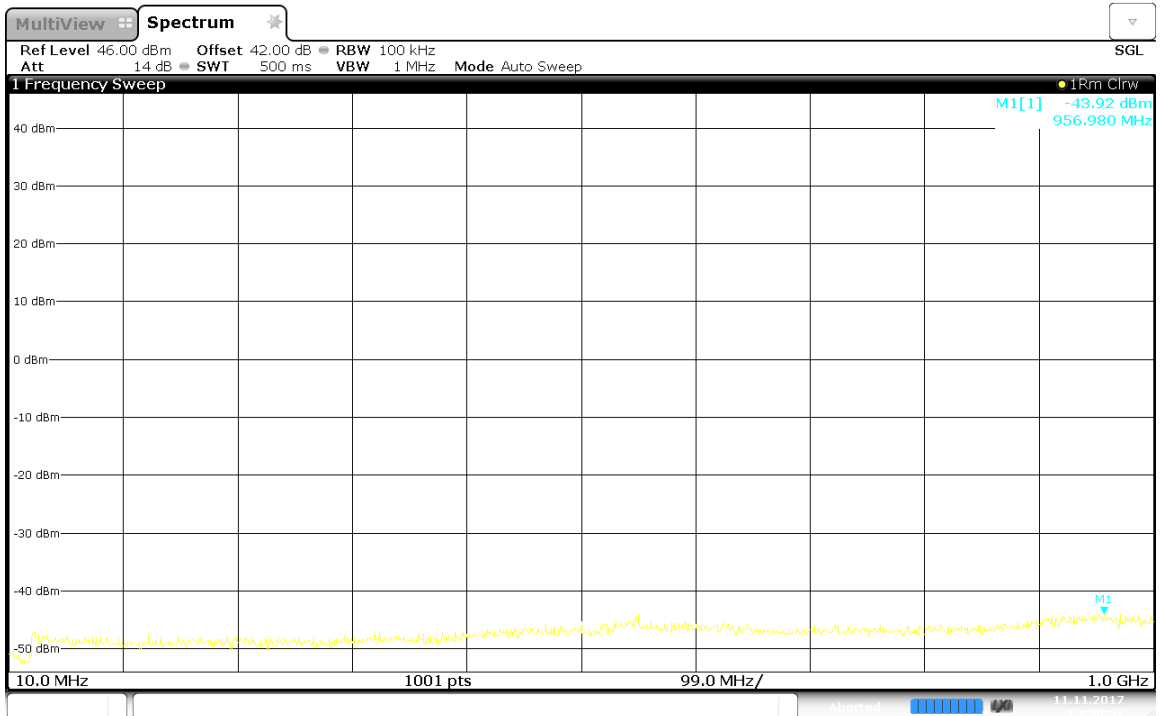
13:39:53 11.11.2017



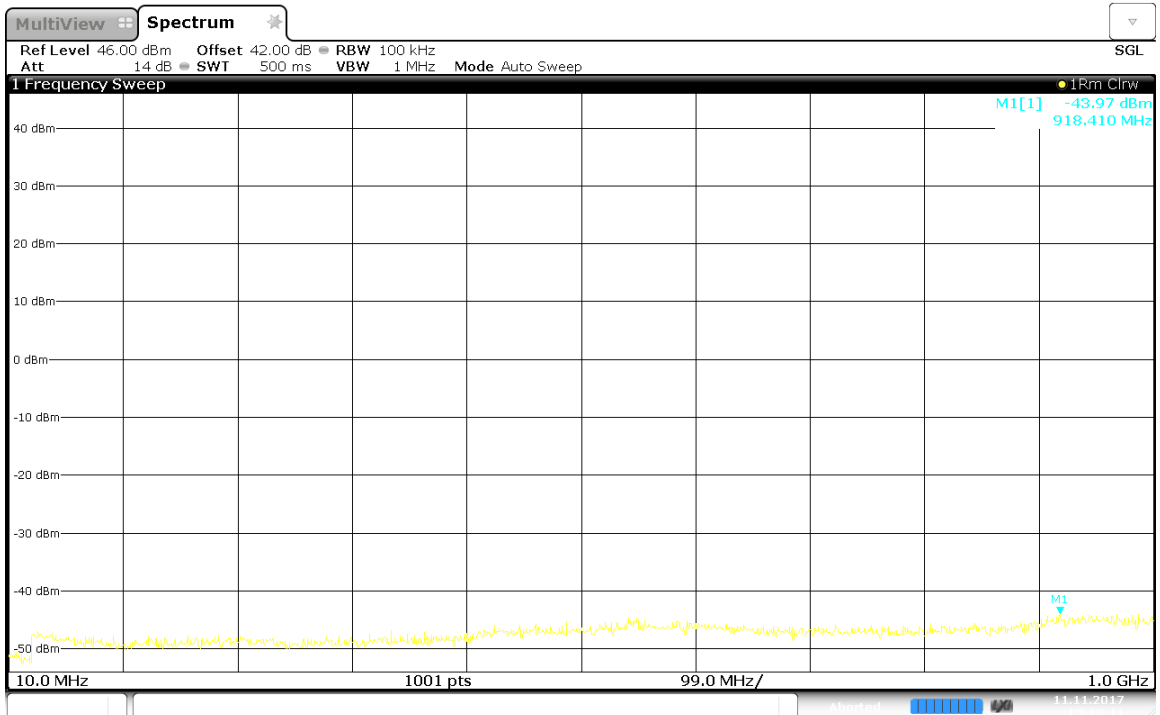
13:41:06 11.11.2017



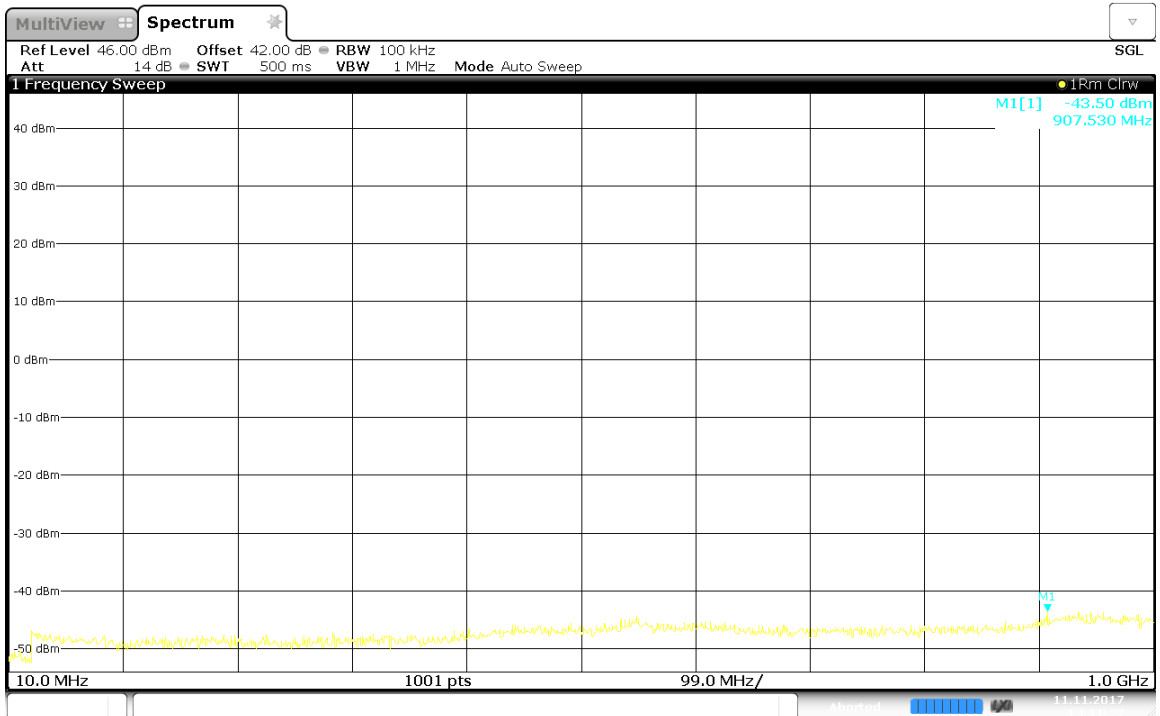
13:42:19 11.11.2017



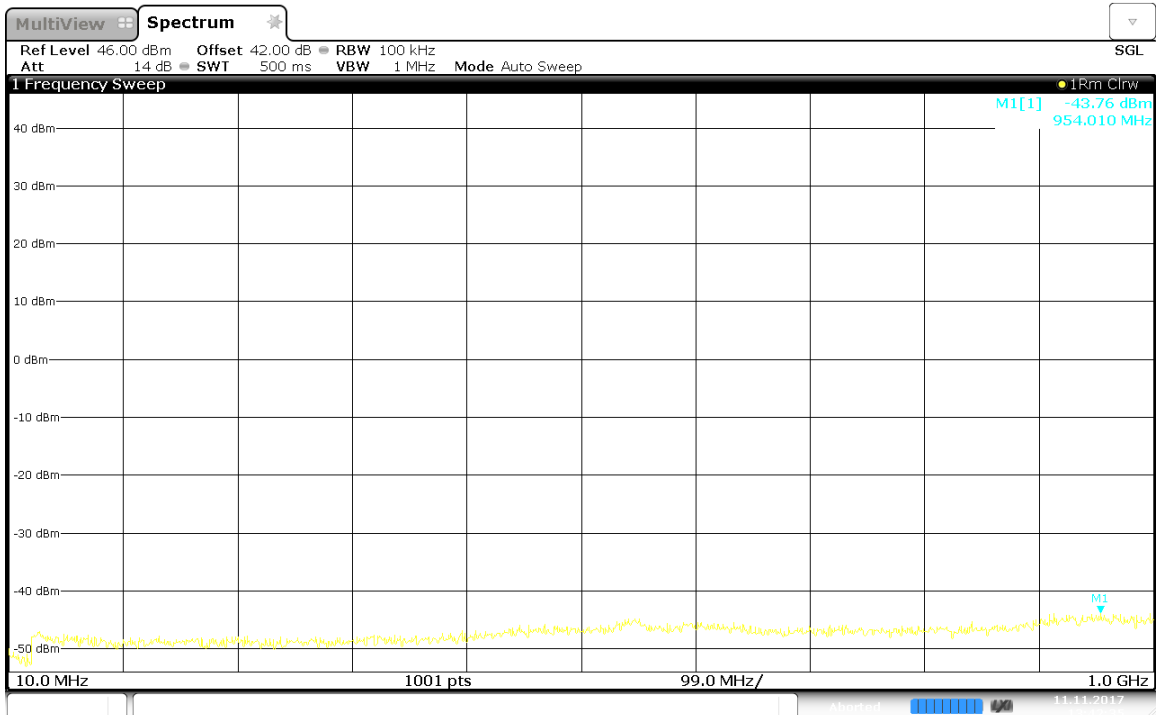
13:38:58 11.11.2017



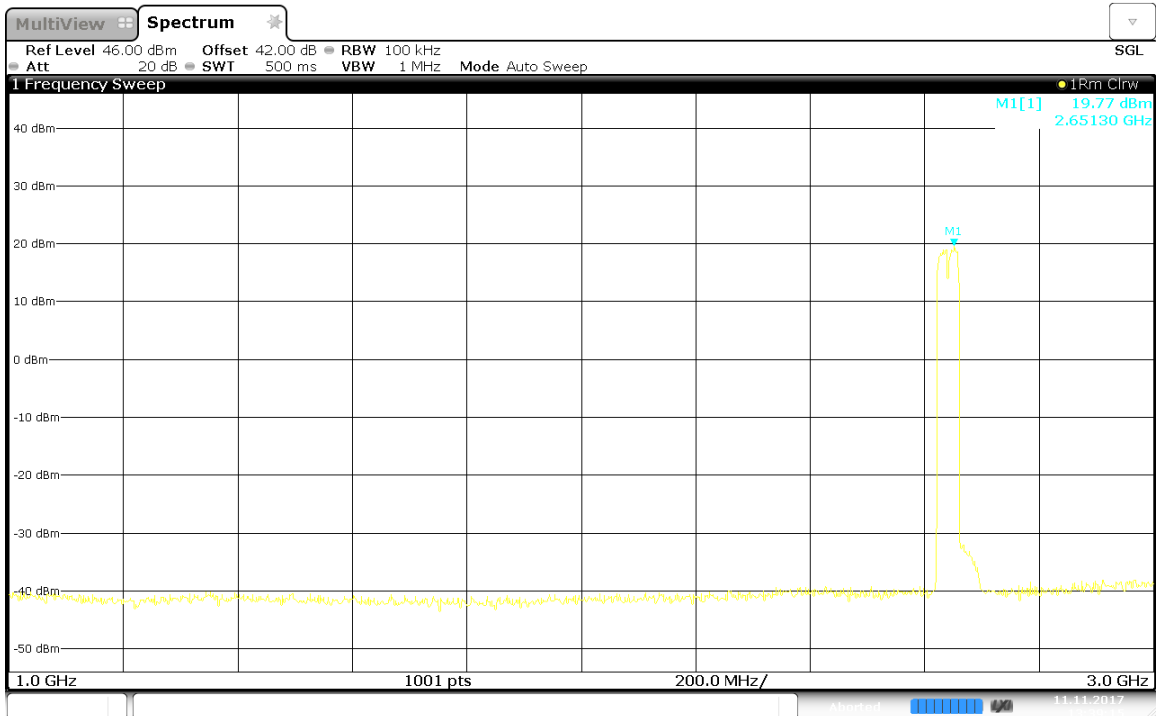
13:40:11 11.11.2017



13:41:23 11.11.2017



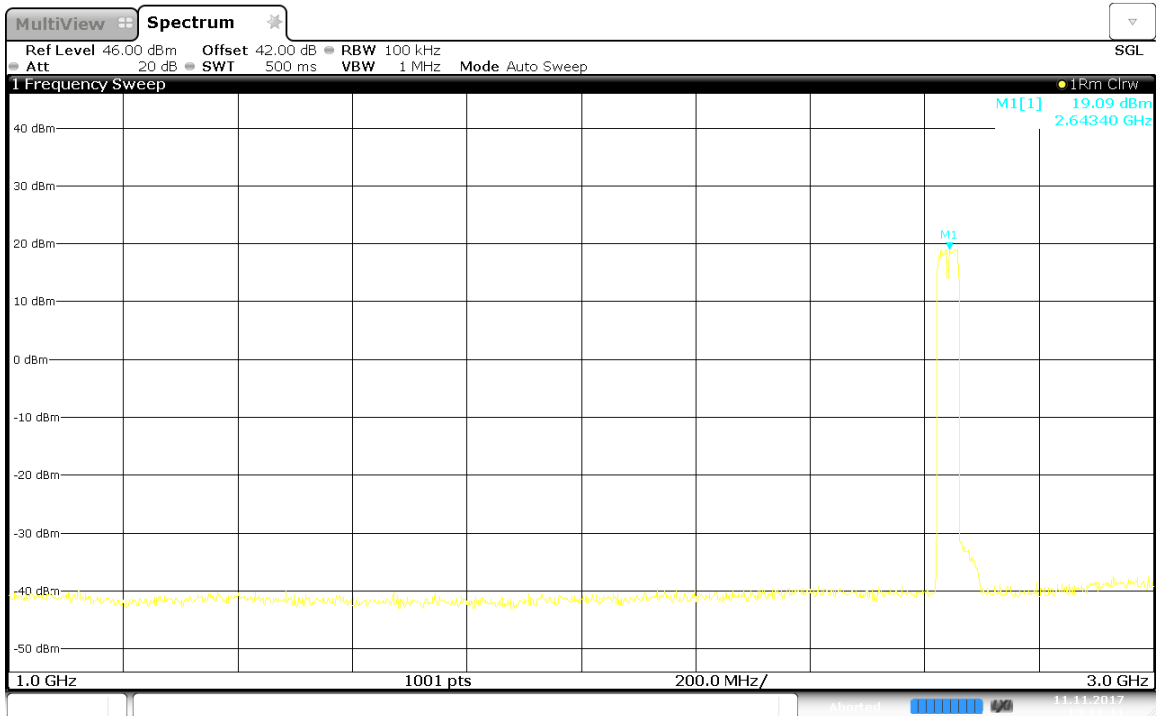
13:42:36 11.11.2017



13:39:15 11.11.2017



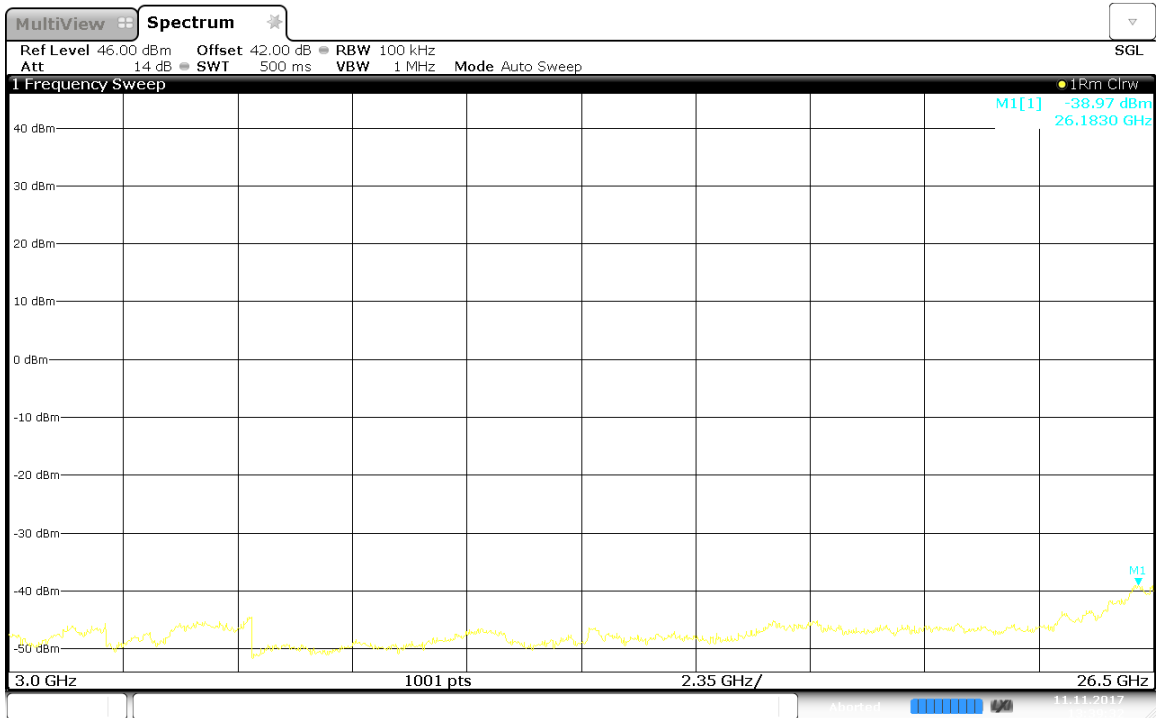
13:40:28 11.11.2017



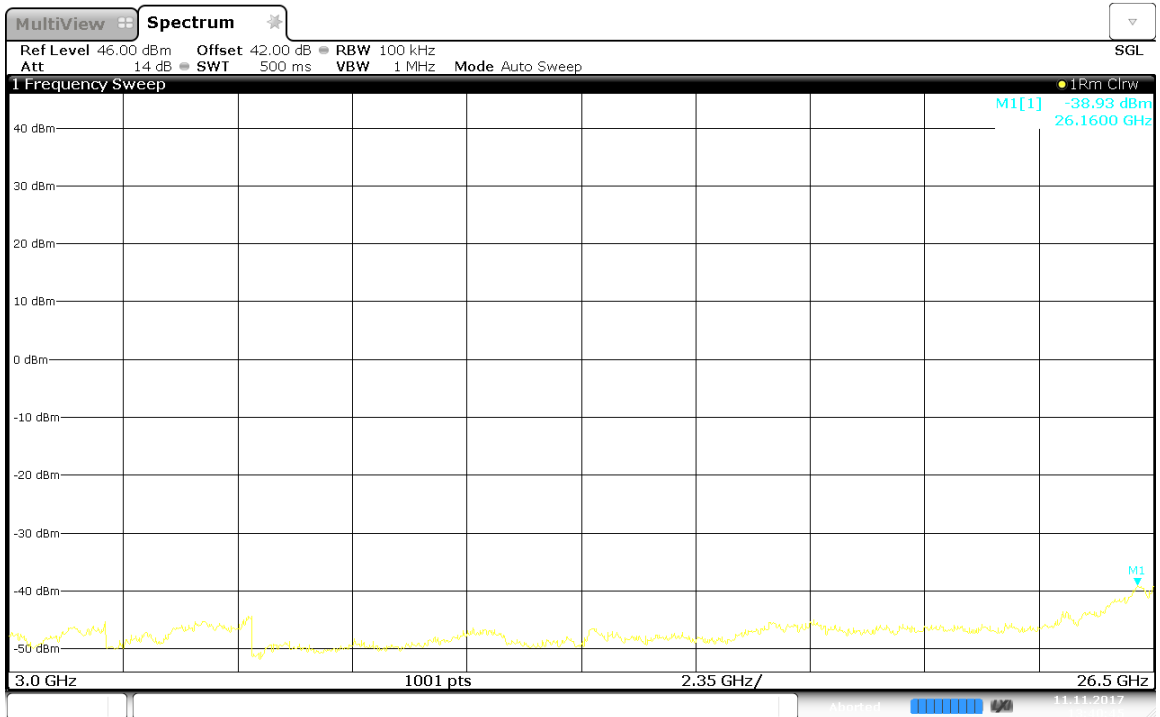
13:41:41 11.11.2017



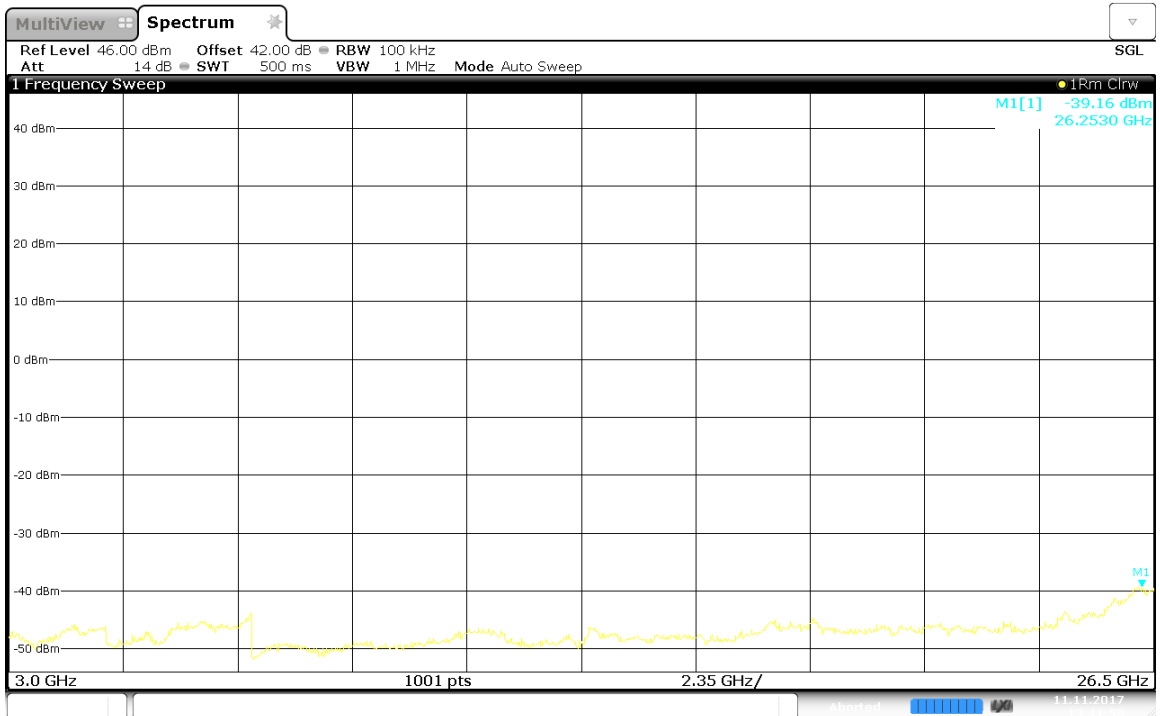
13:42:54 11.11.2017



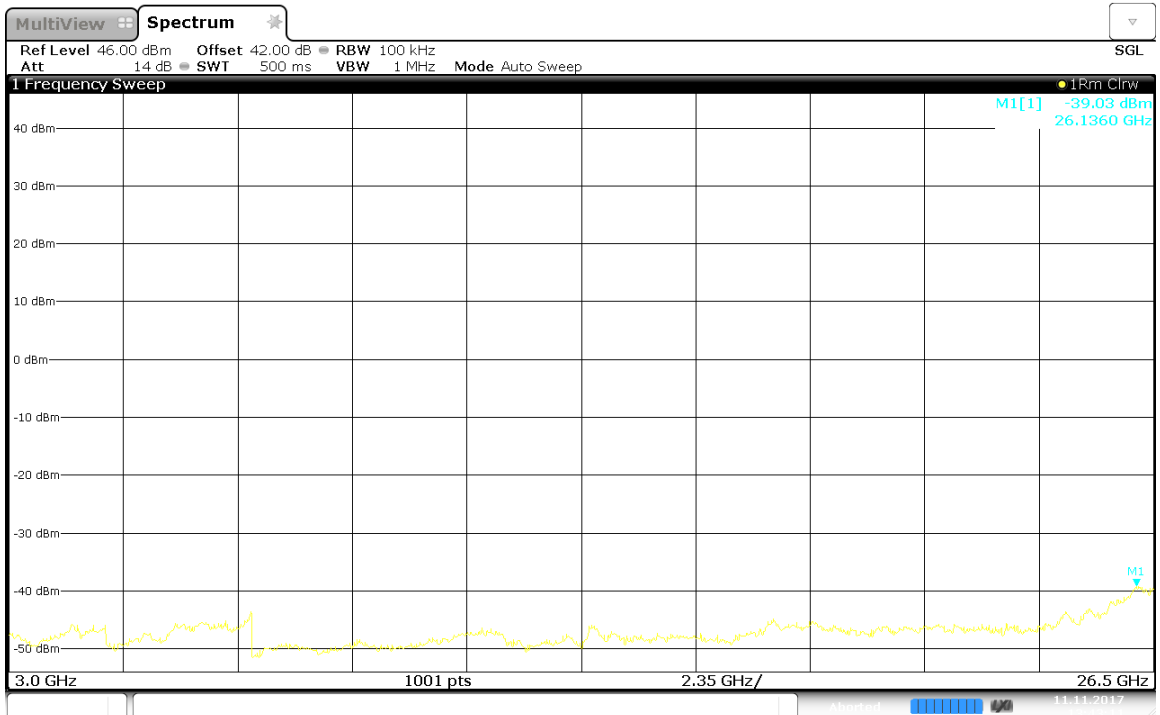
13:39:33 11.11.2017



13:40:46 11.11.2017

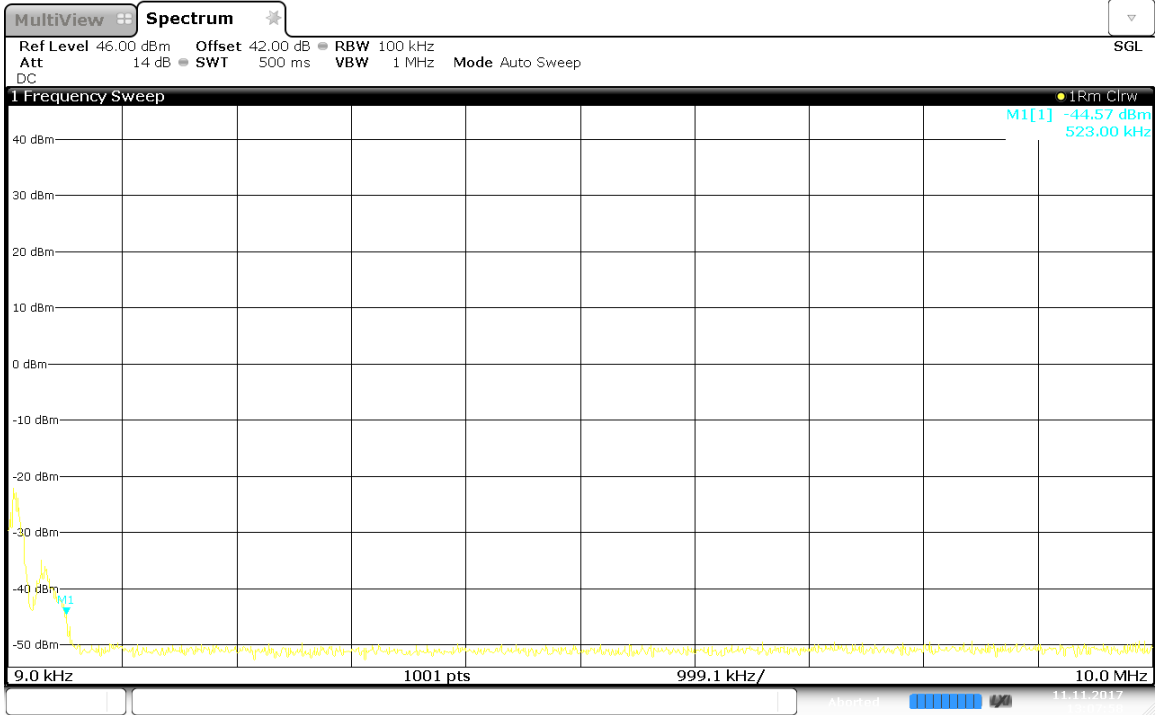


13:41:58 11.11.2017

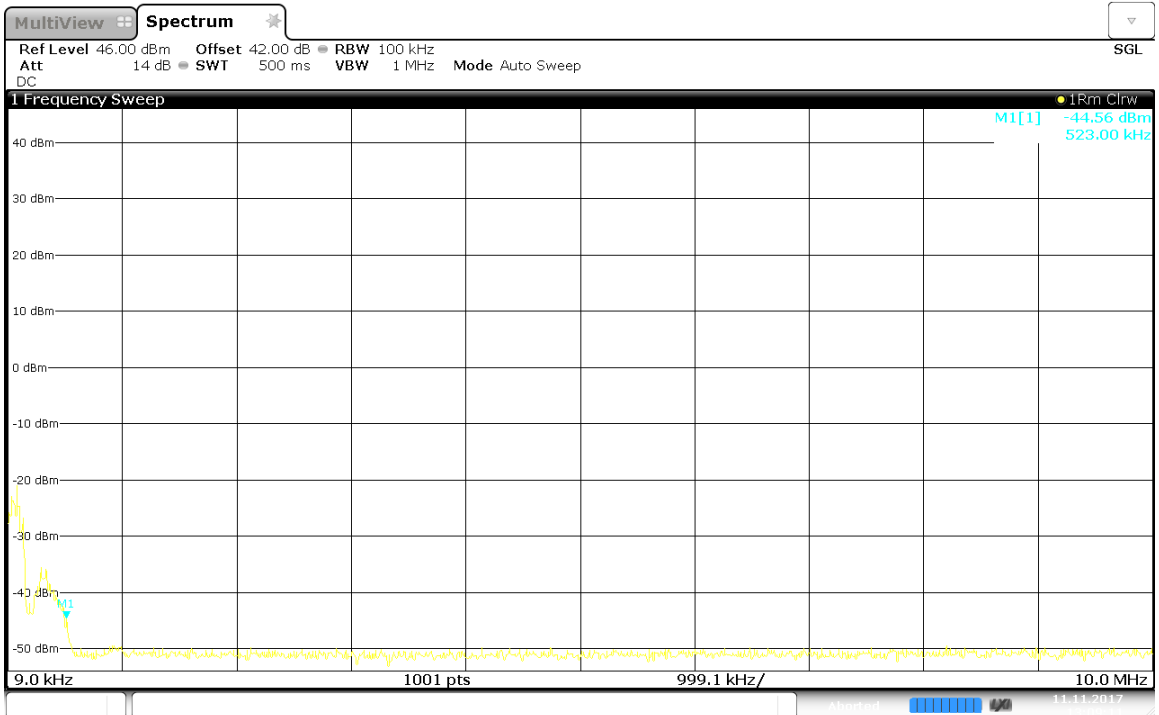


13:43:11 11.11.2017

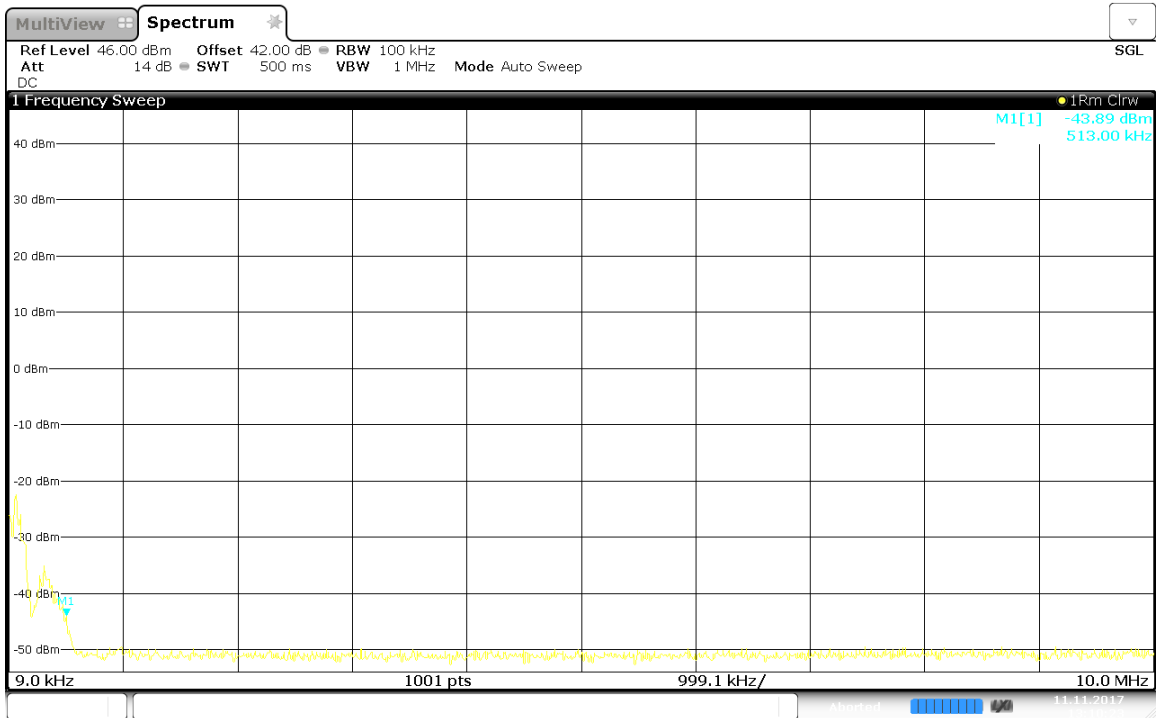
20M+20M-2655MHz-Port1~4:



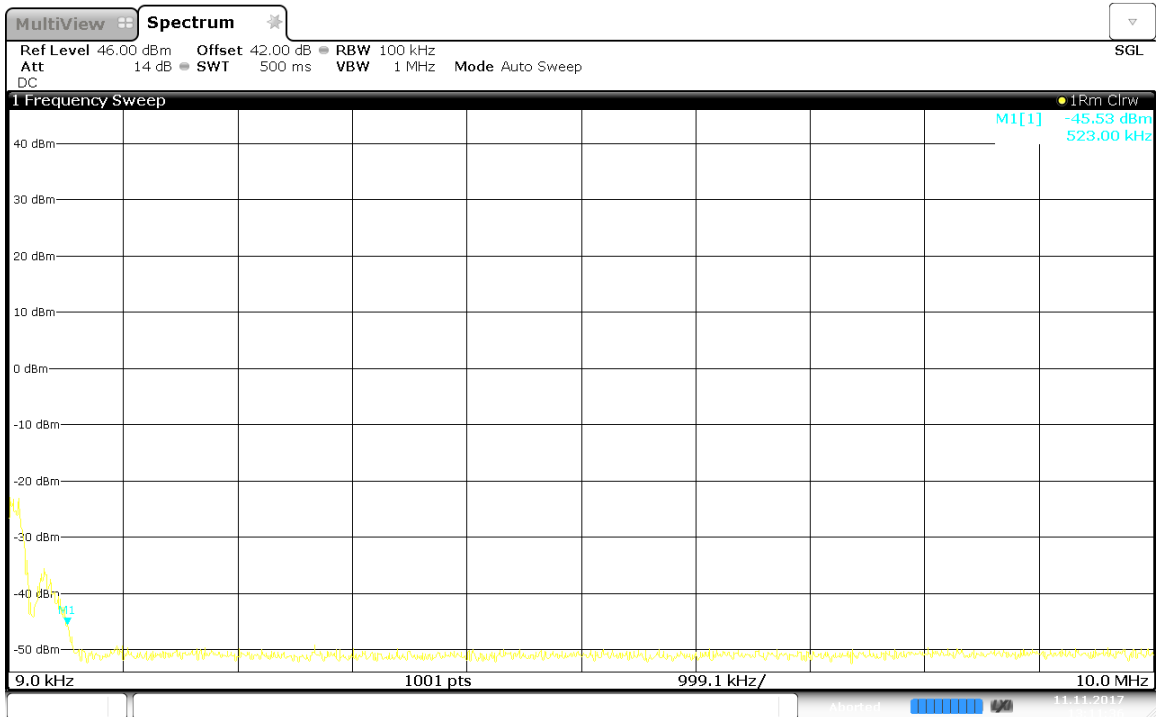
13:07:58 11.11.2017



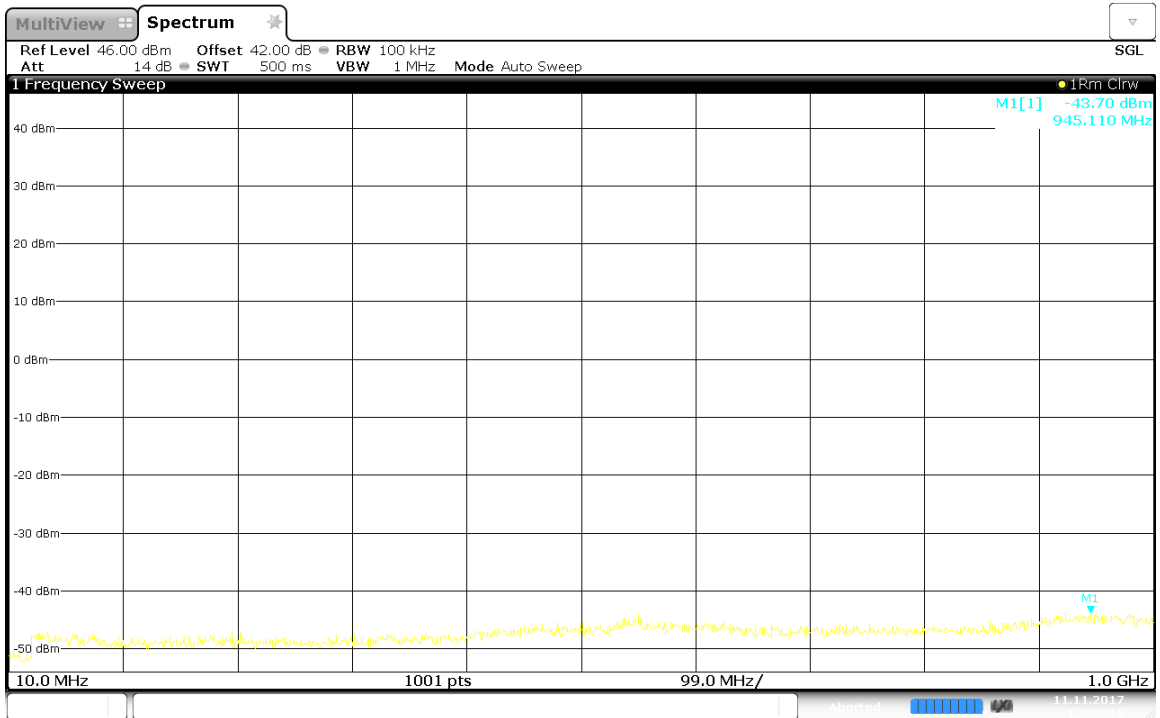
13:09:11 11.11.2017



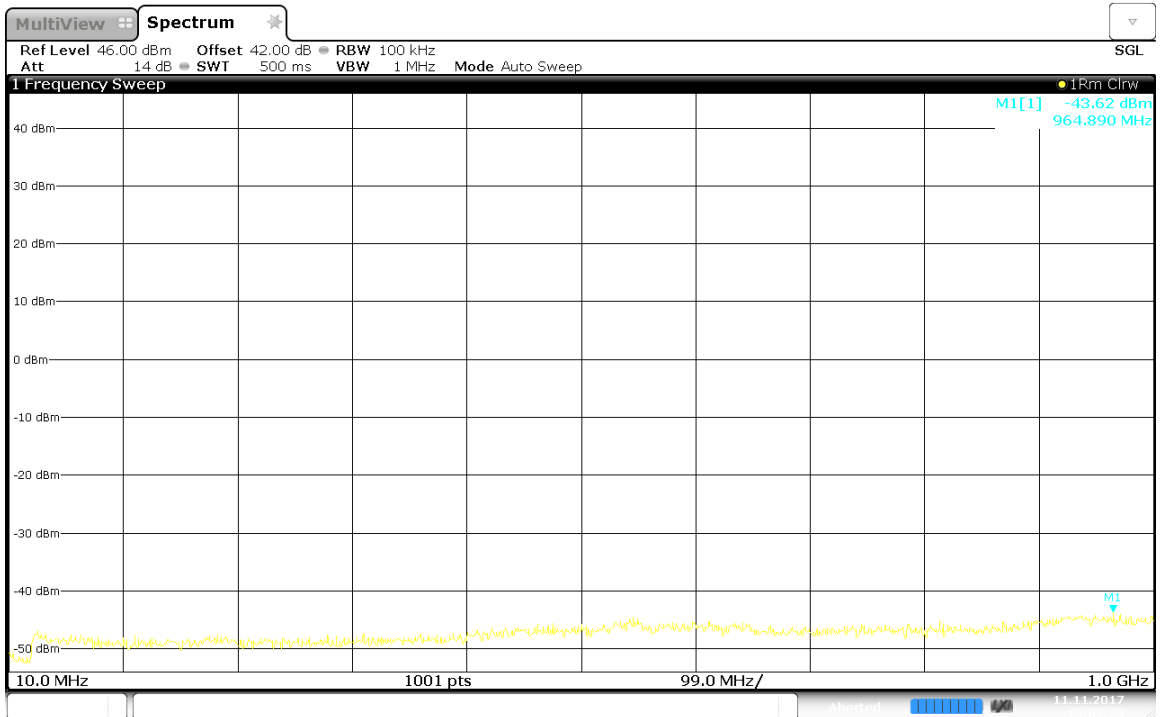
13:10:24 11.11.2017



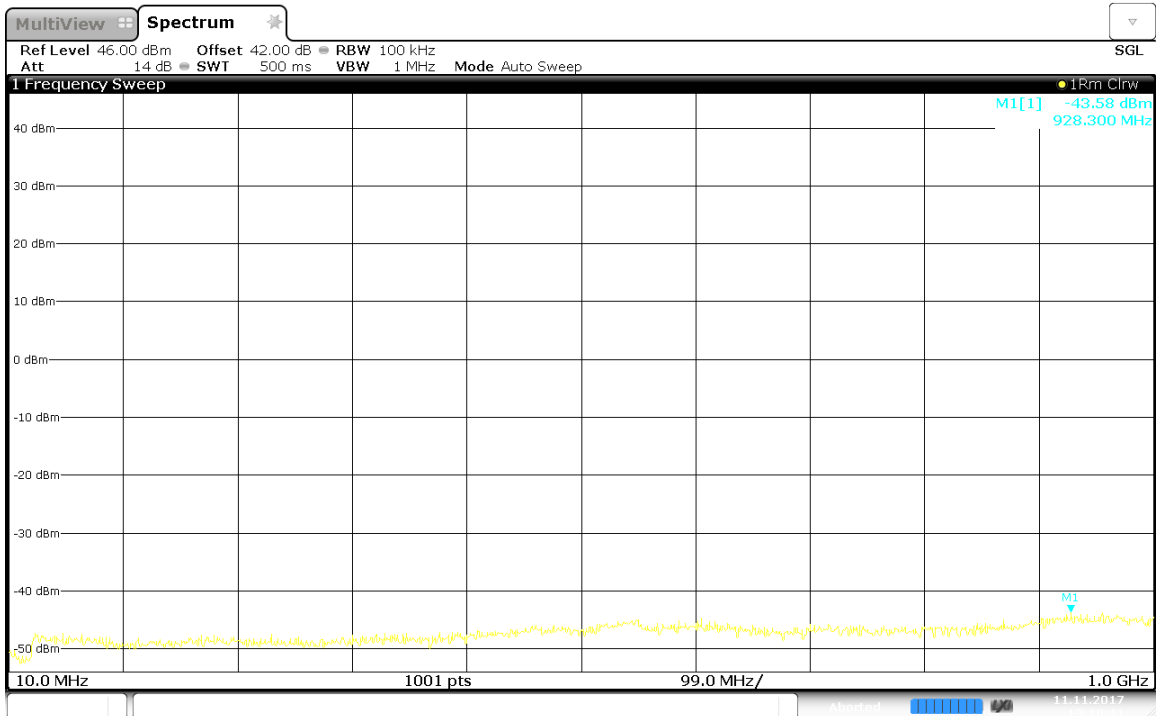
13:11:36 11.11.2017



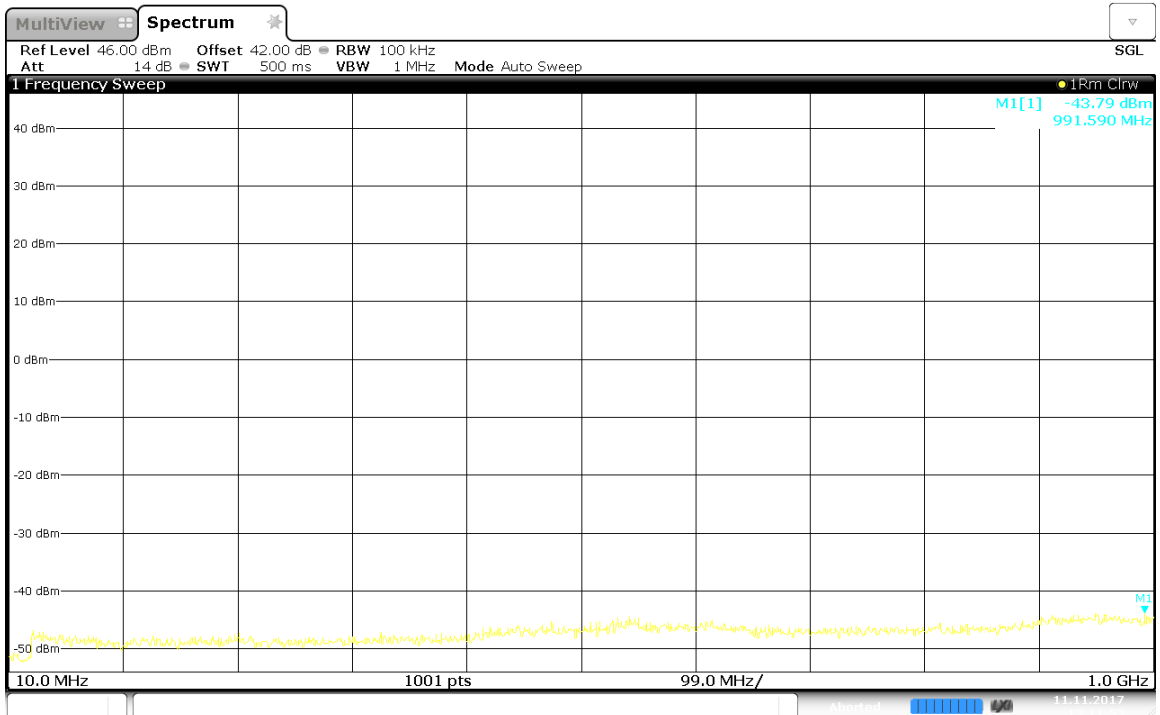
13:08:16 11.11.2017



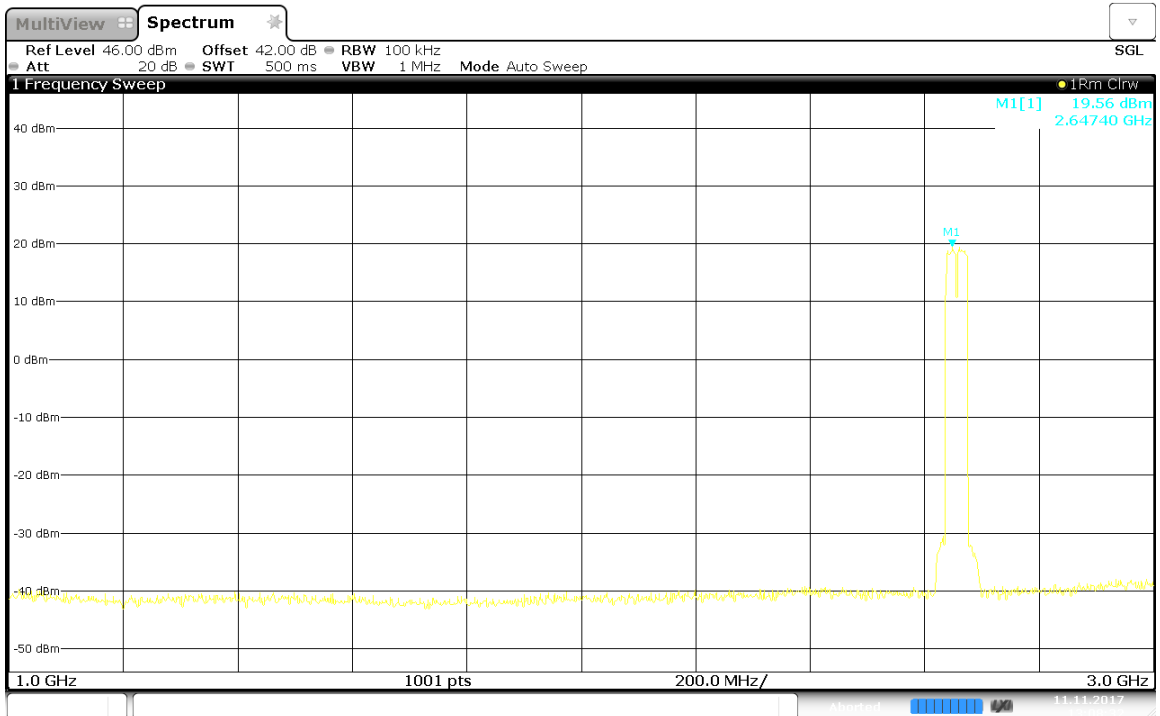
13:09:28 11.11.2017



13:10:41 11.11.2017



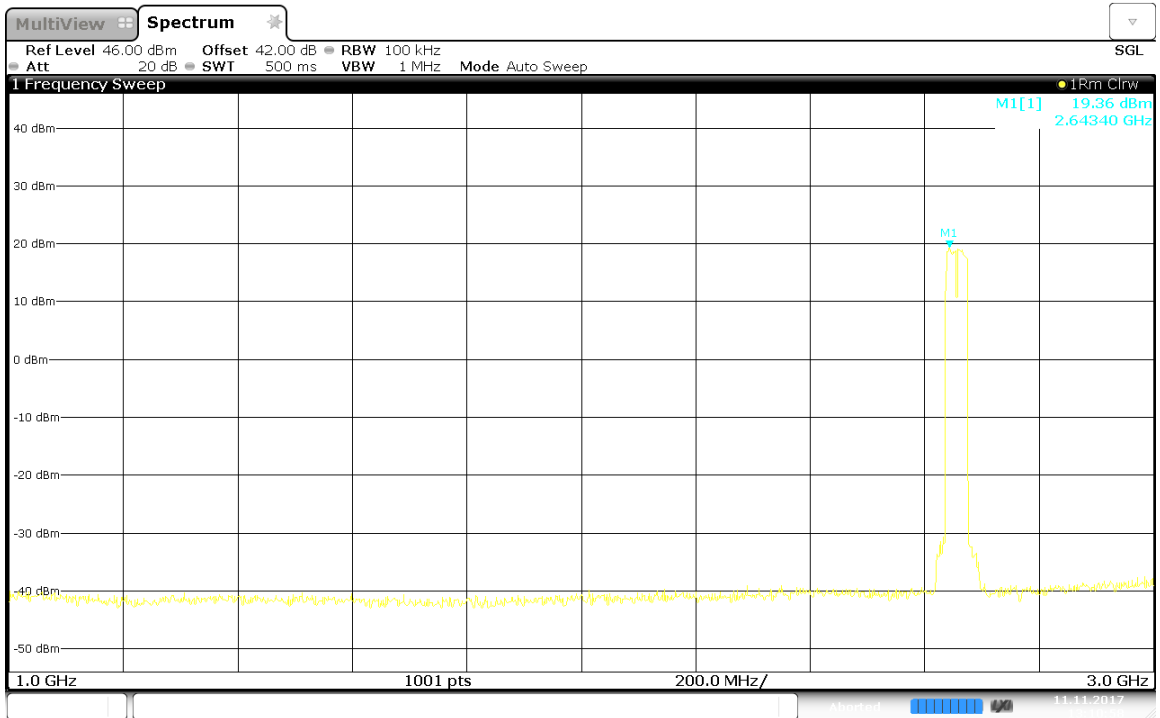
13:11:54 11.11.2017



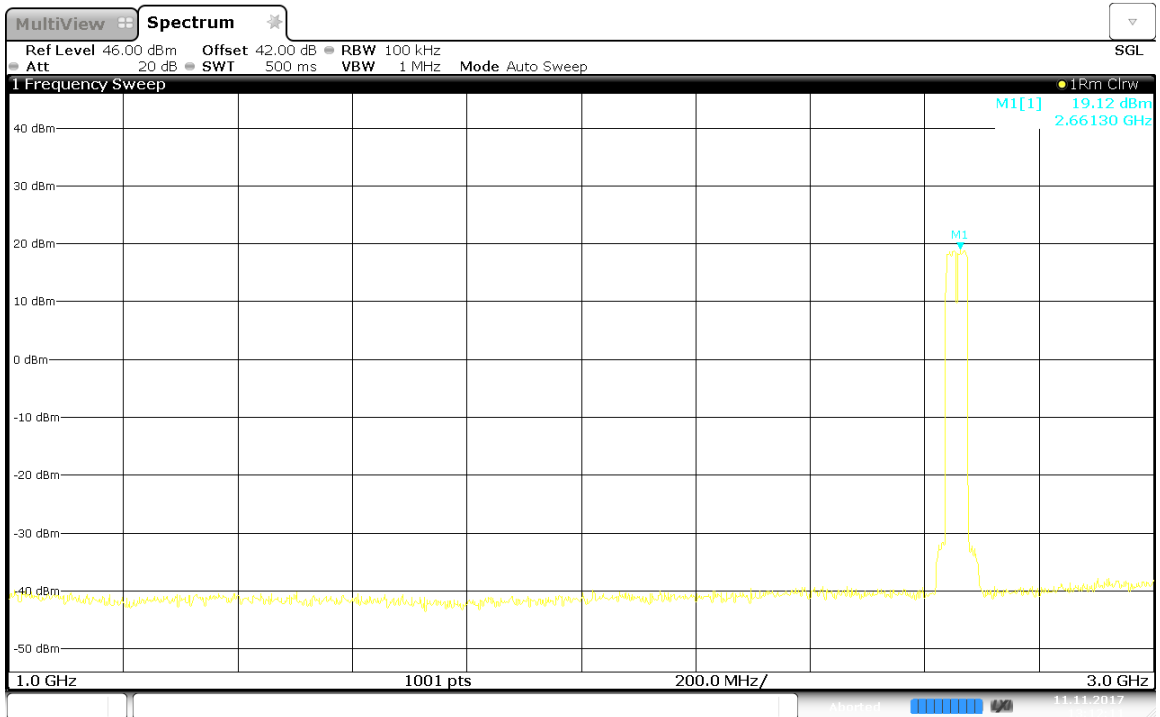
13:08:33 11.11.2017



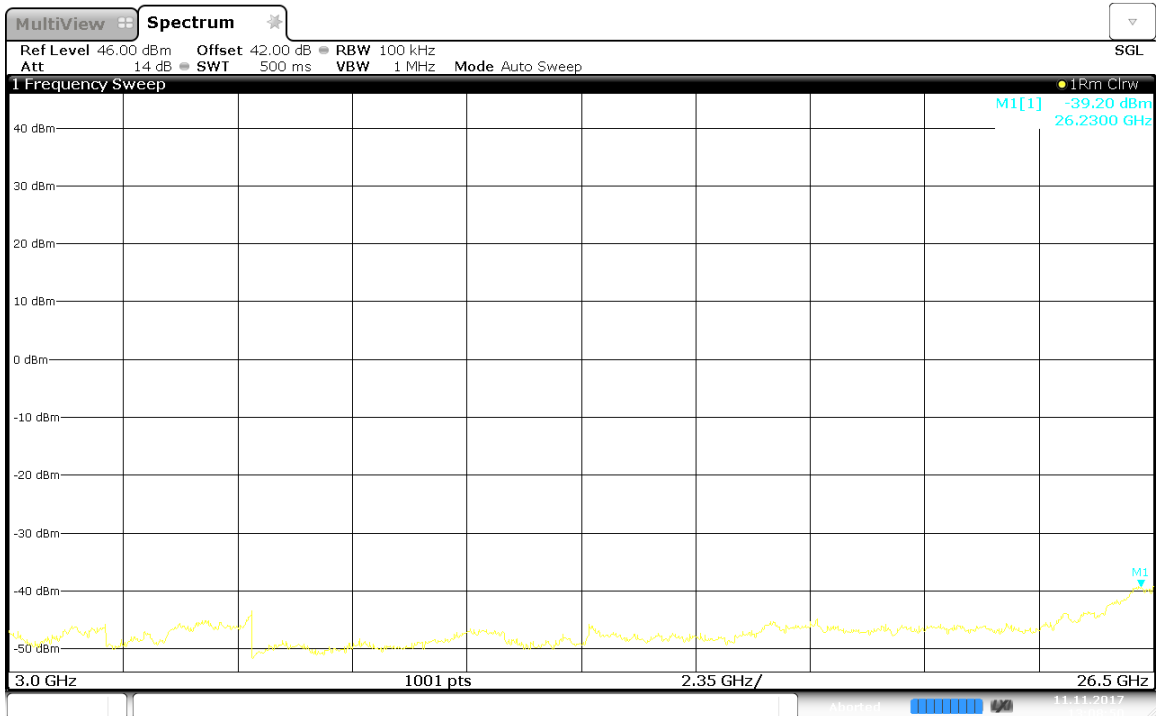
13:09:46 11.11.2017



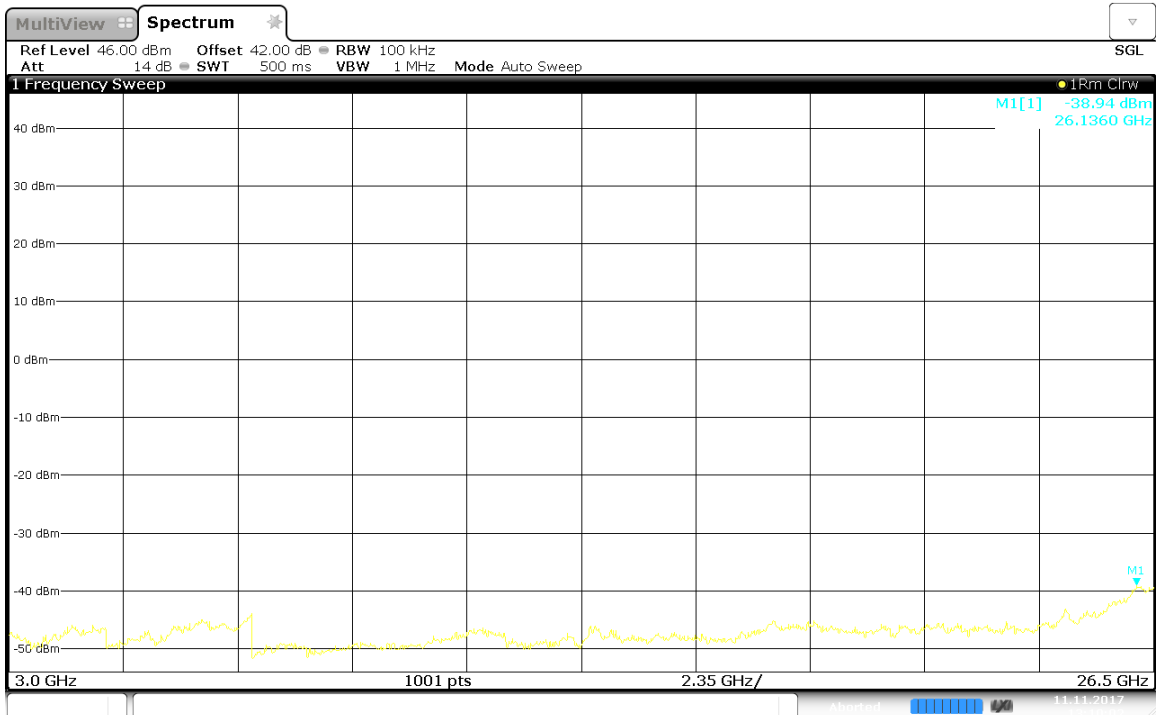
13:10:59 11.11.2017



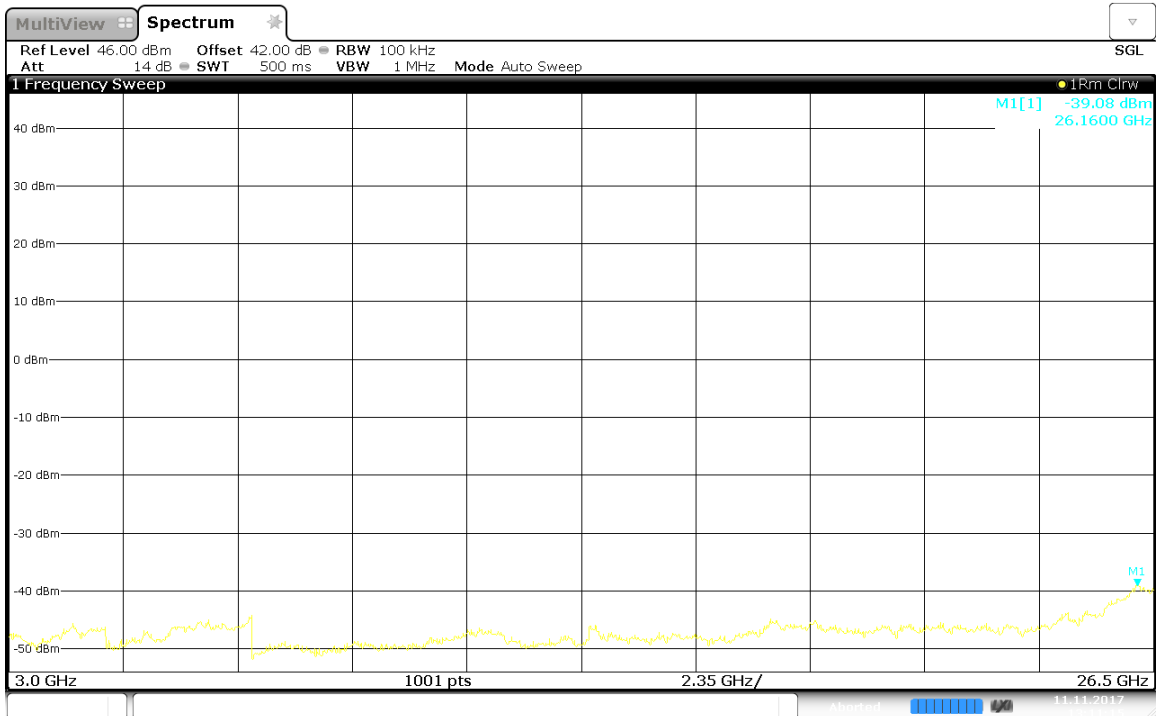
13:12:11 11.11.2017



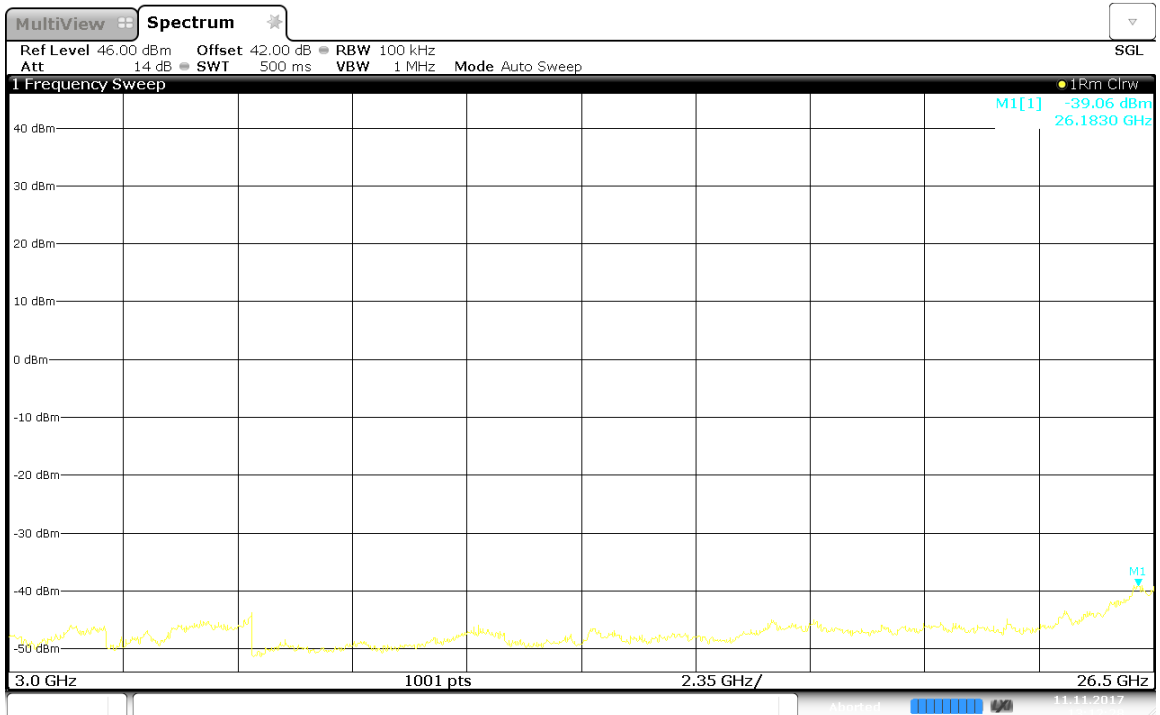
13:08:51 11.11.2017



13:10:03 11.11.2017

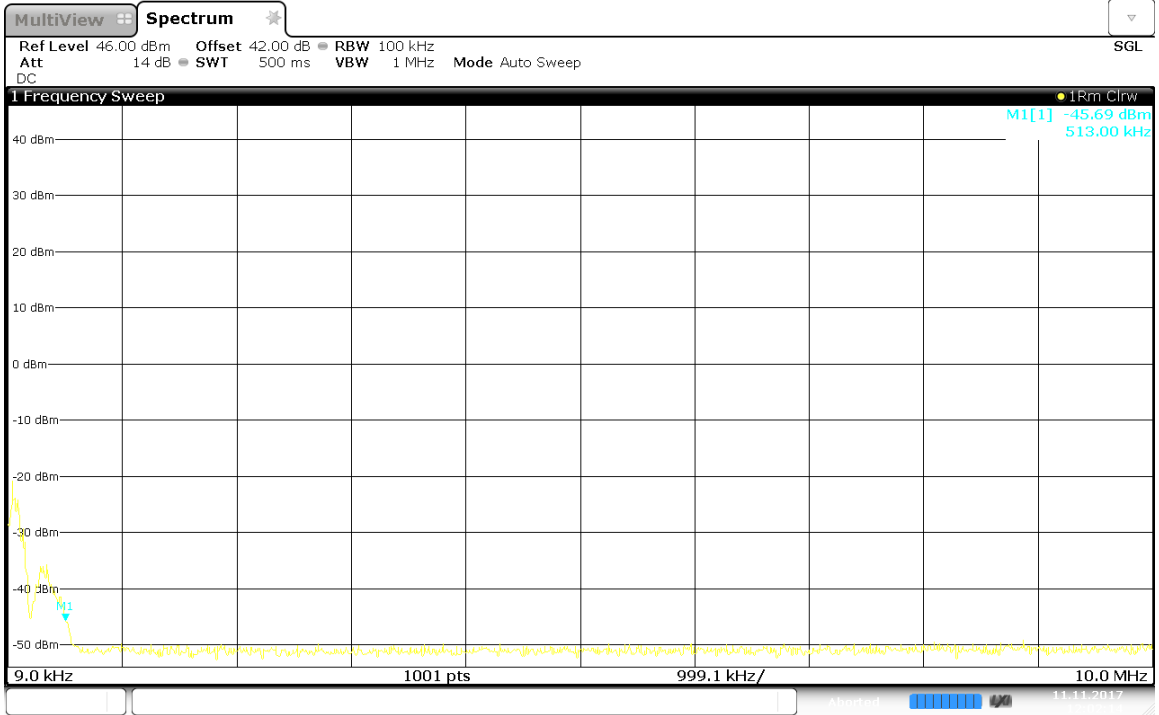


13:11:16 11.11.2017

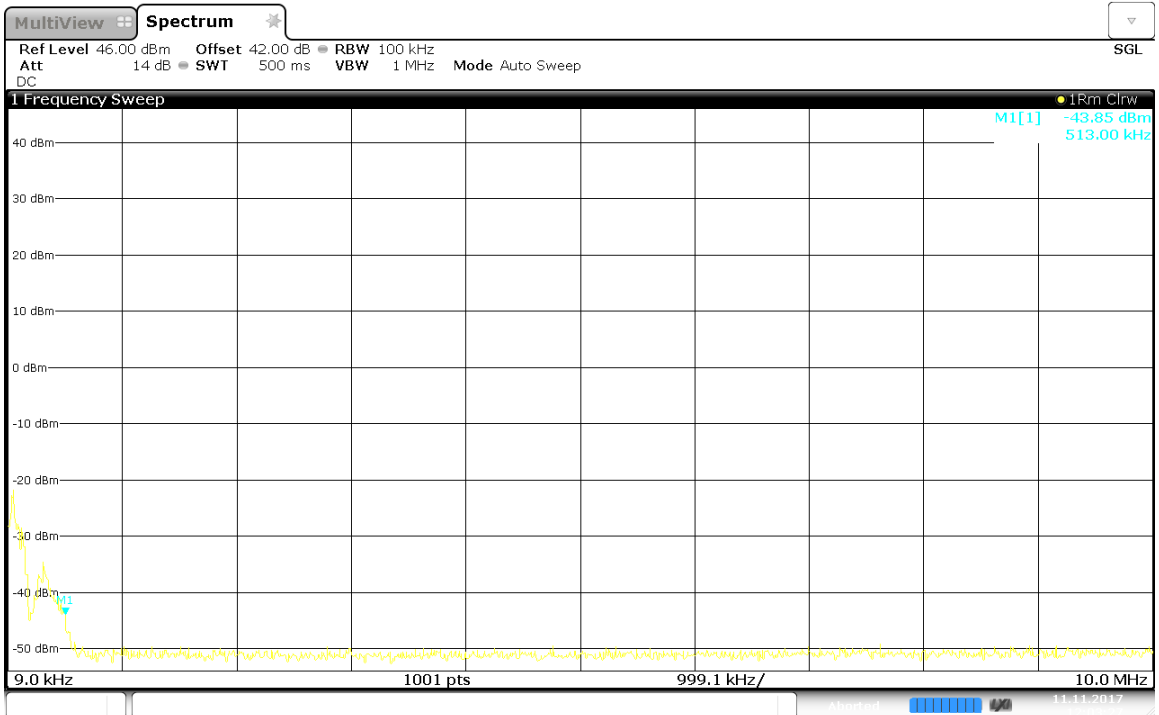


13:12:29 11.11.2017

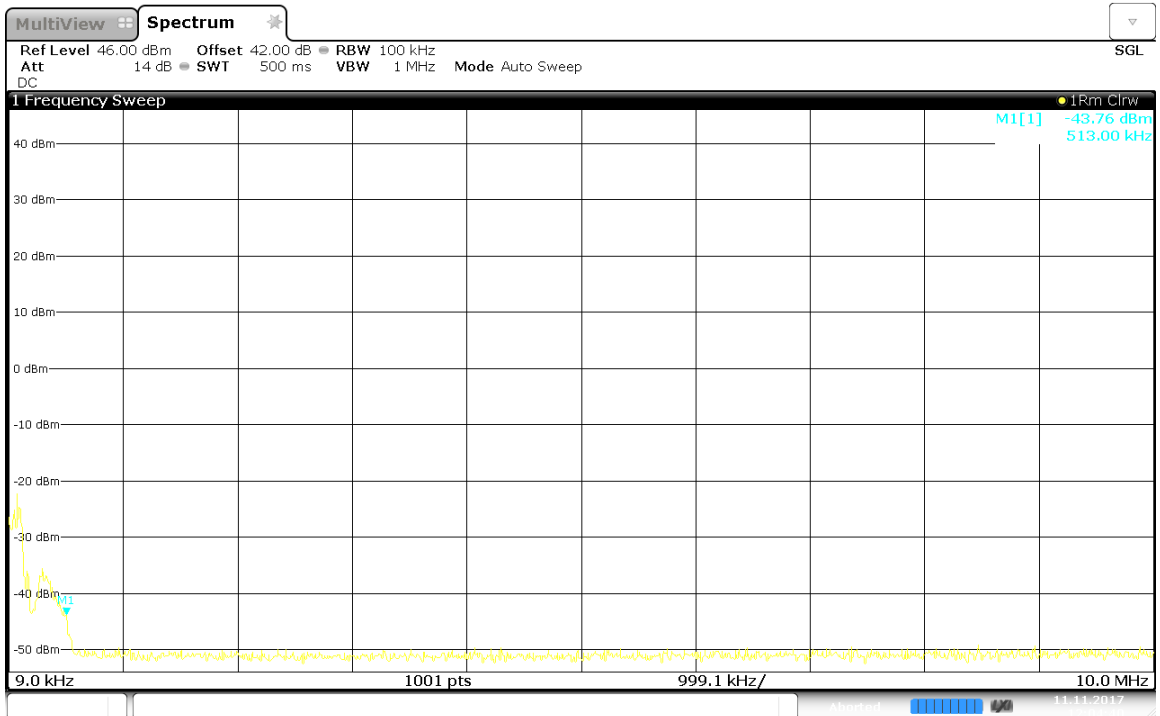
20M+20M-2670MHz-Port1~4:



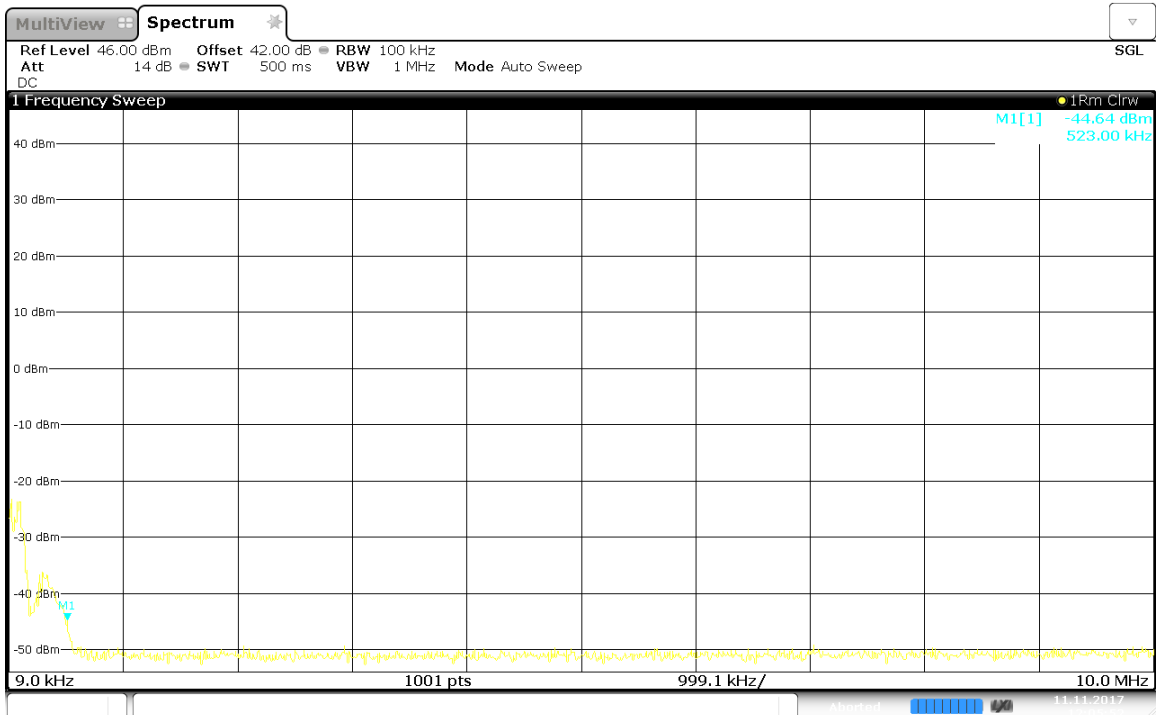
12:02:15 11.11.2017



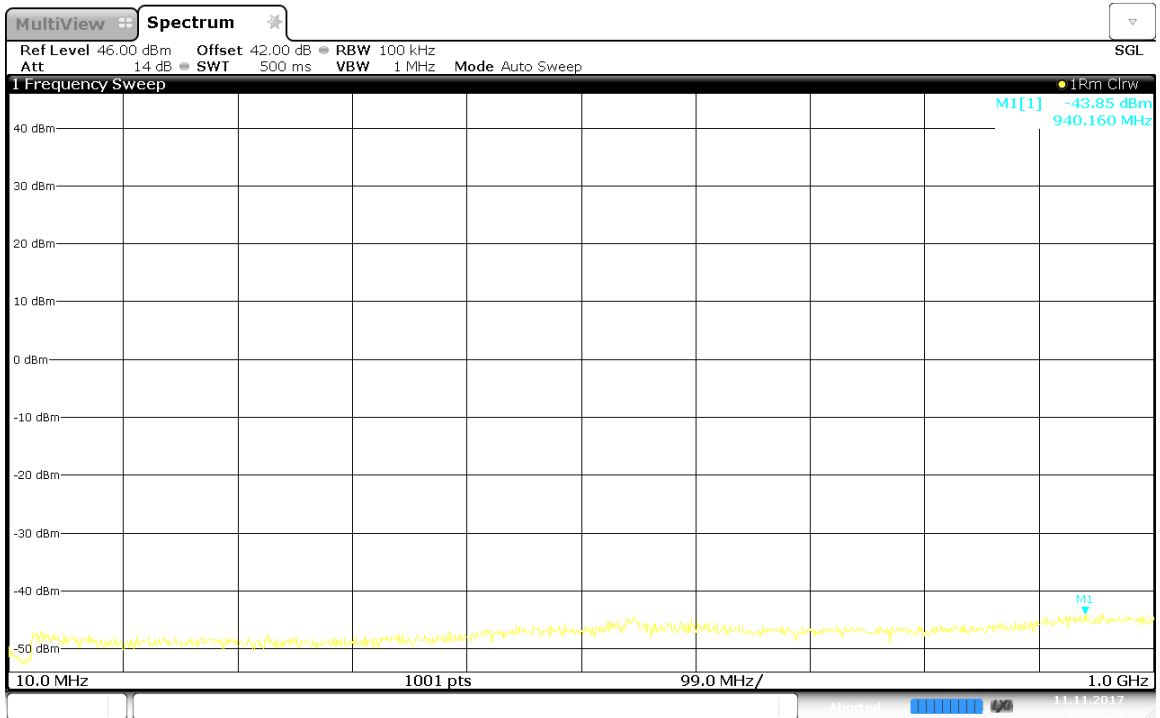
12:03:28 11.11.2017



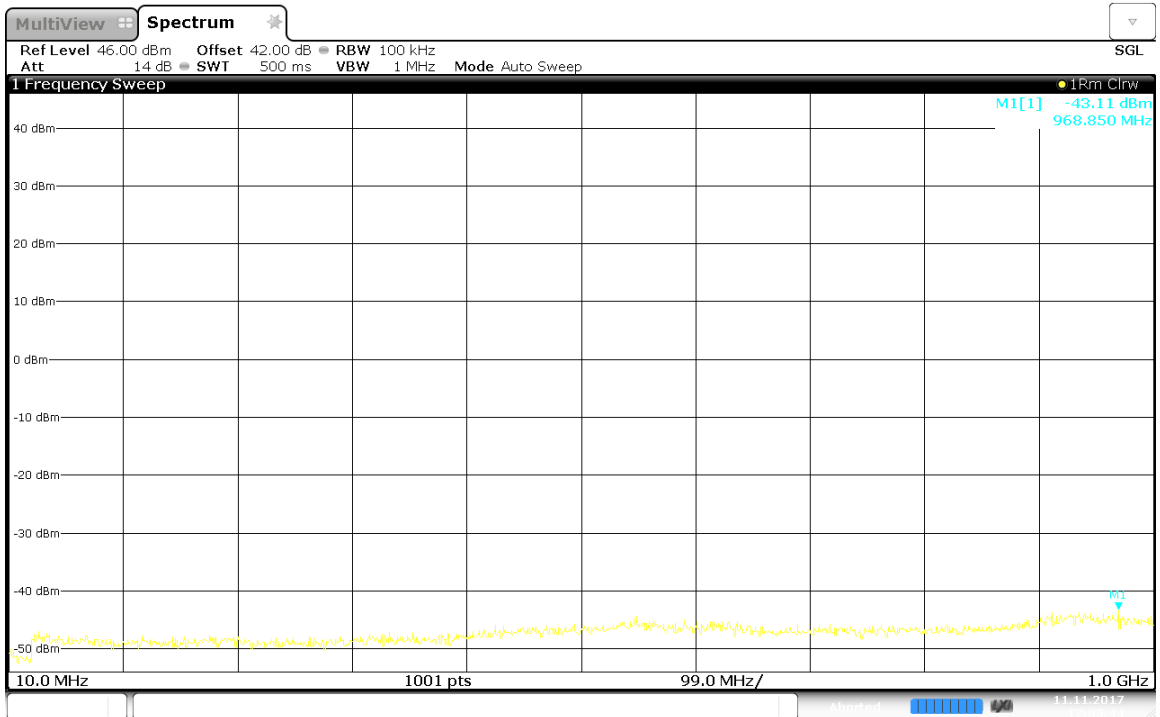
12:04:40 11.11.2017



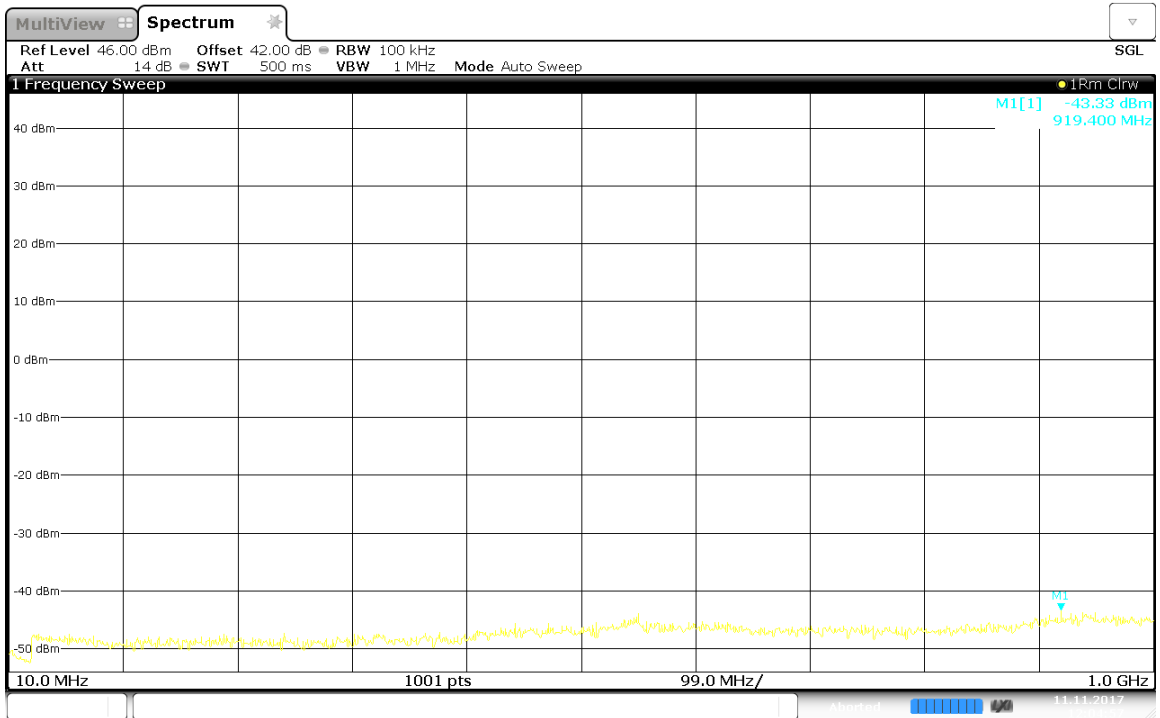
12:05:53 11.11.2017



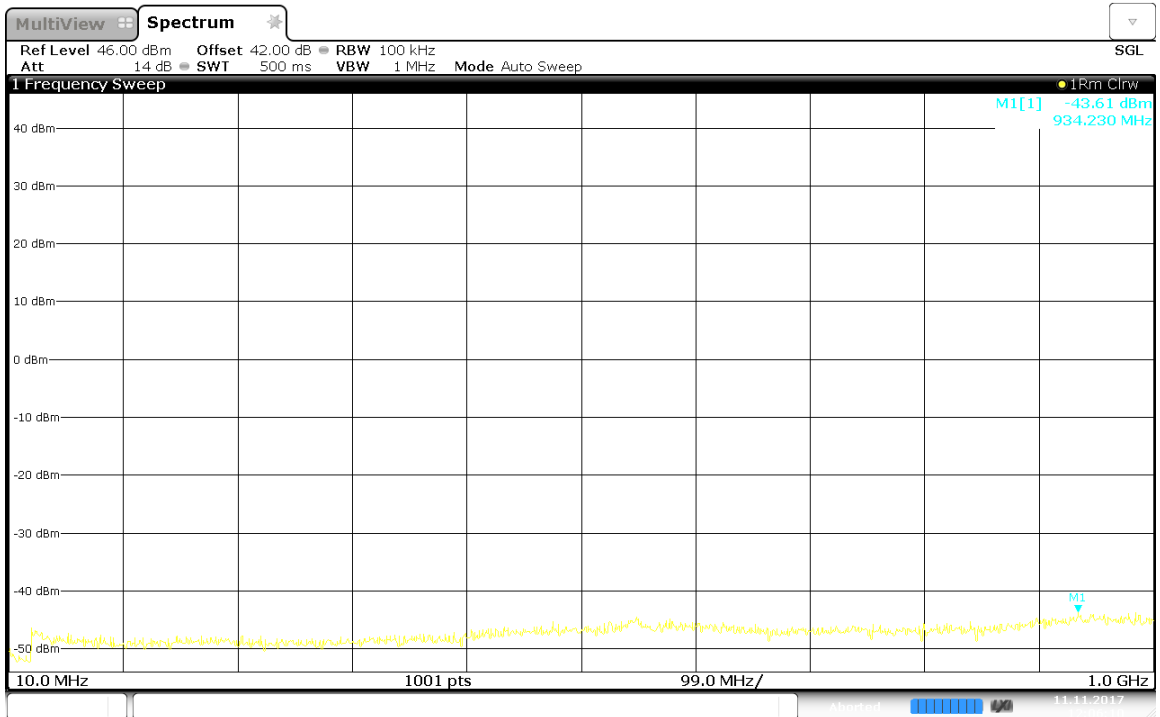
12:02:32 11.11.2017



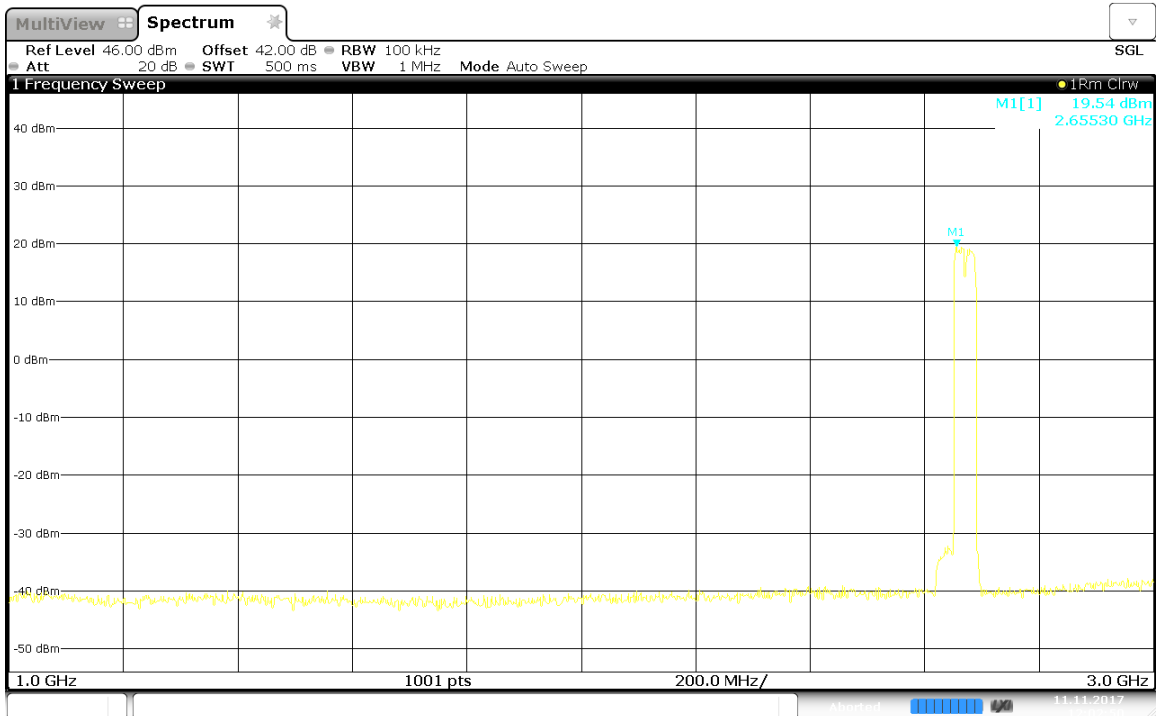
12:03:45 11.11.2017



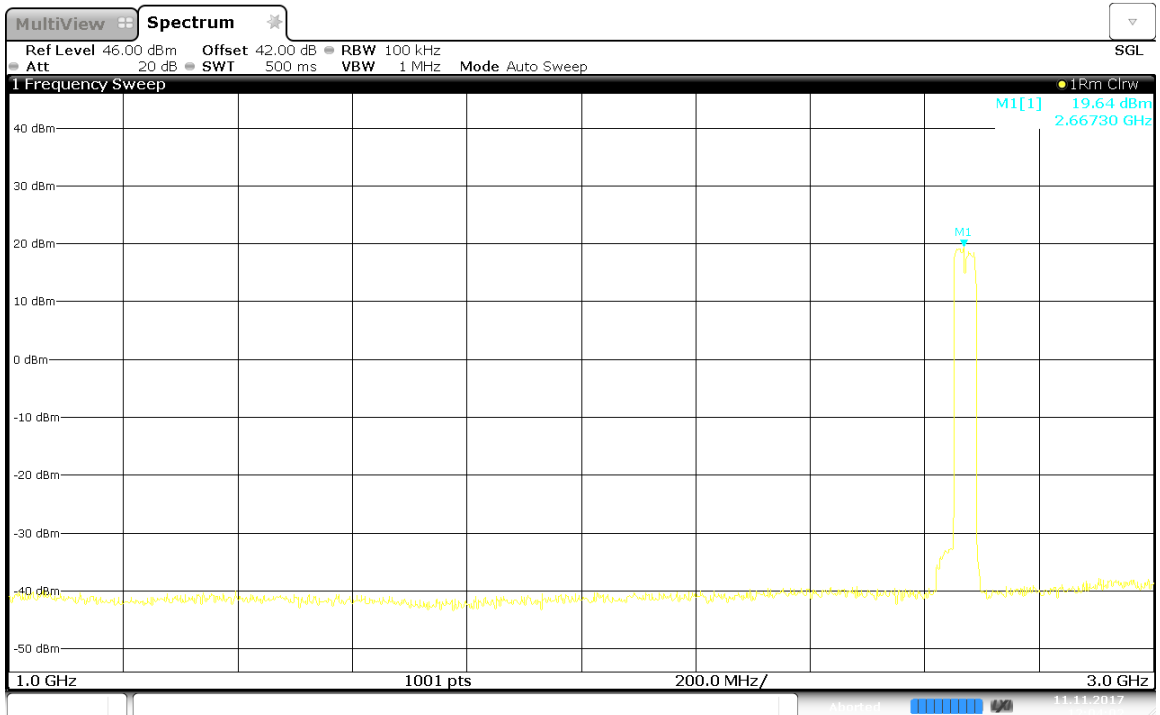
12:04:58 11.11.2017



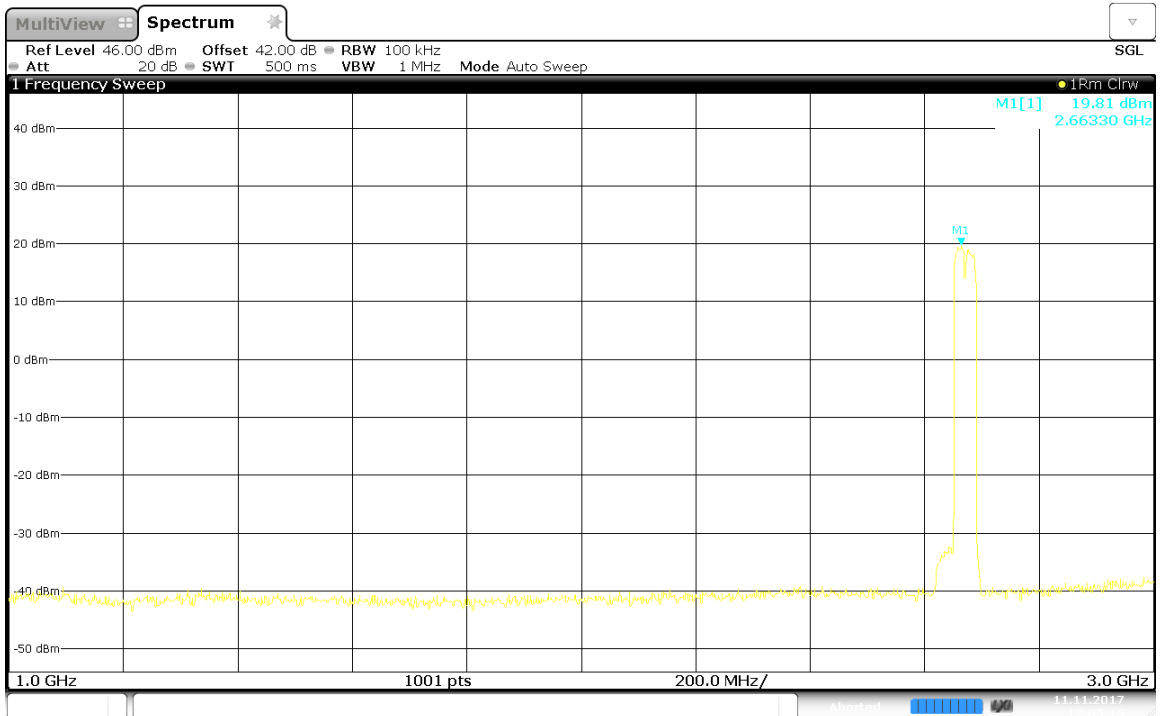
12:06:10 11.11.2017



12:02:50 11.11.2017



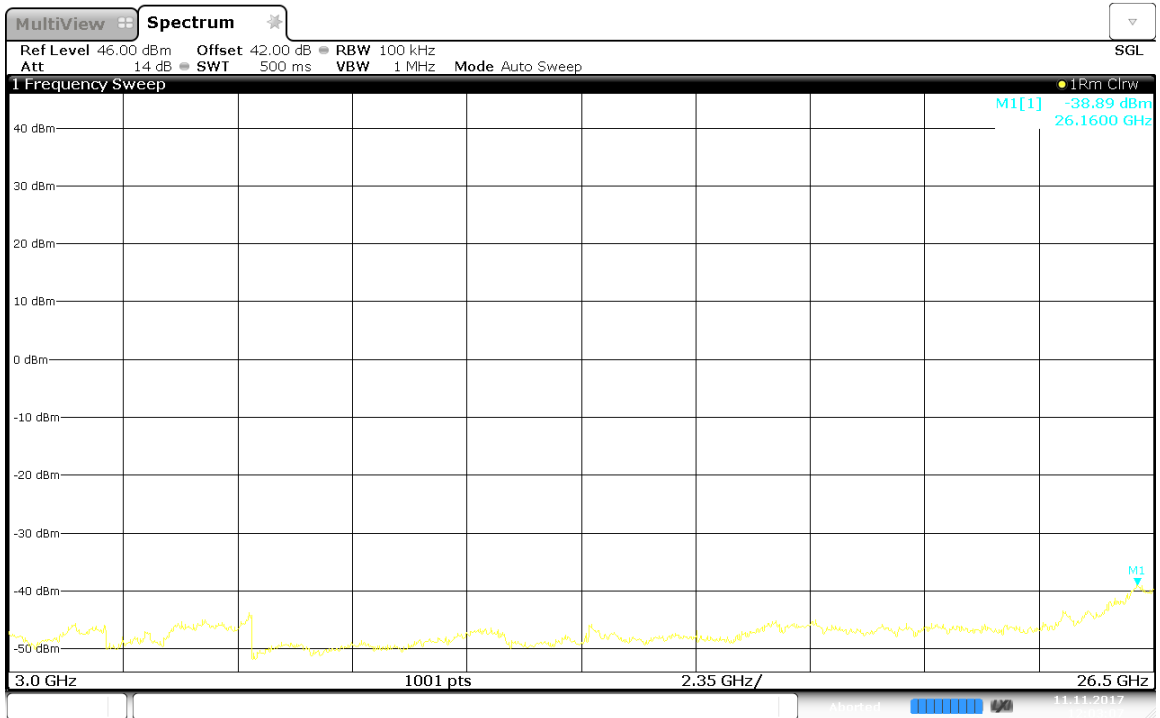
12:04:02 11.11.2017



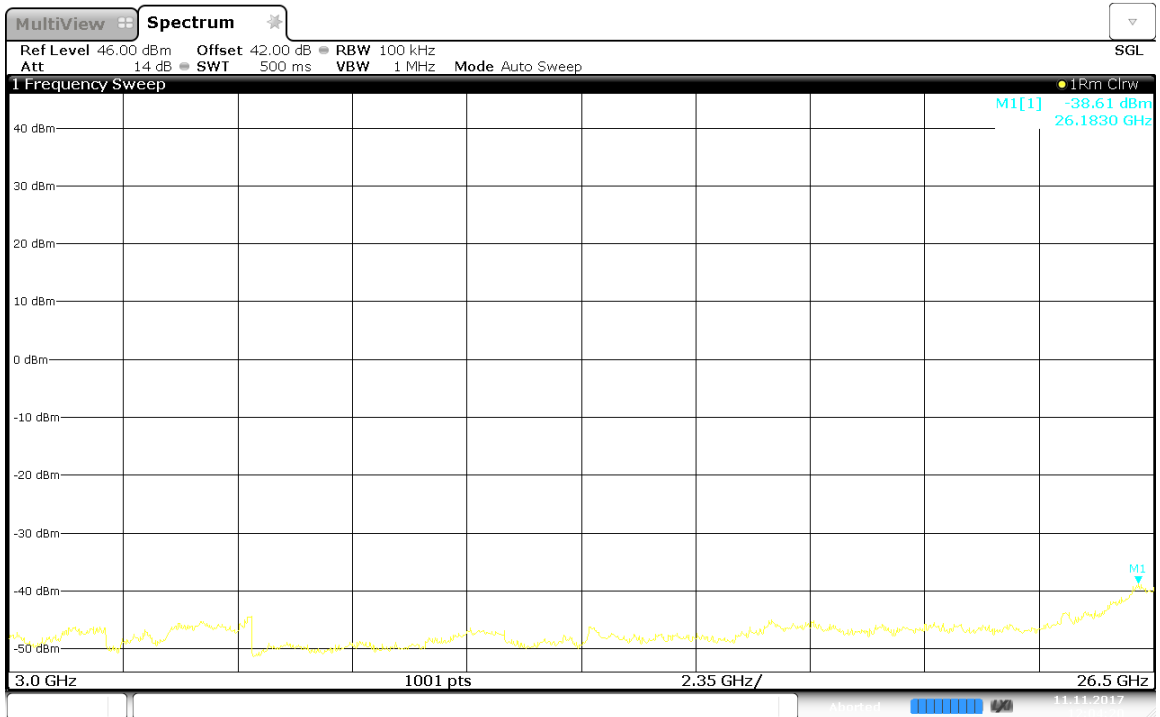
12:05:15 11.11.2017



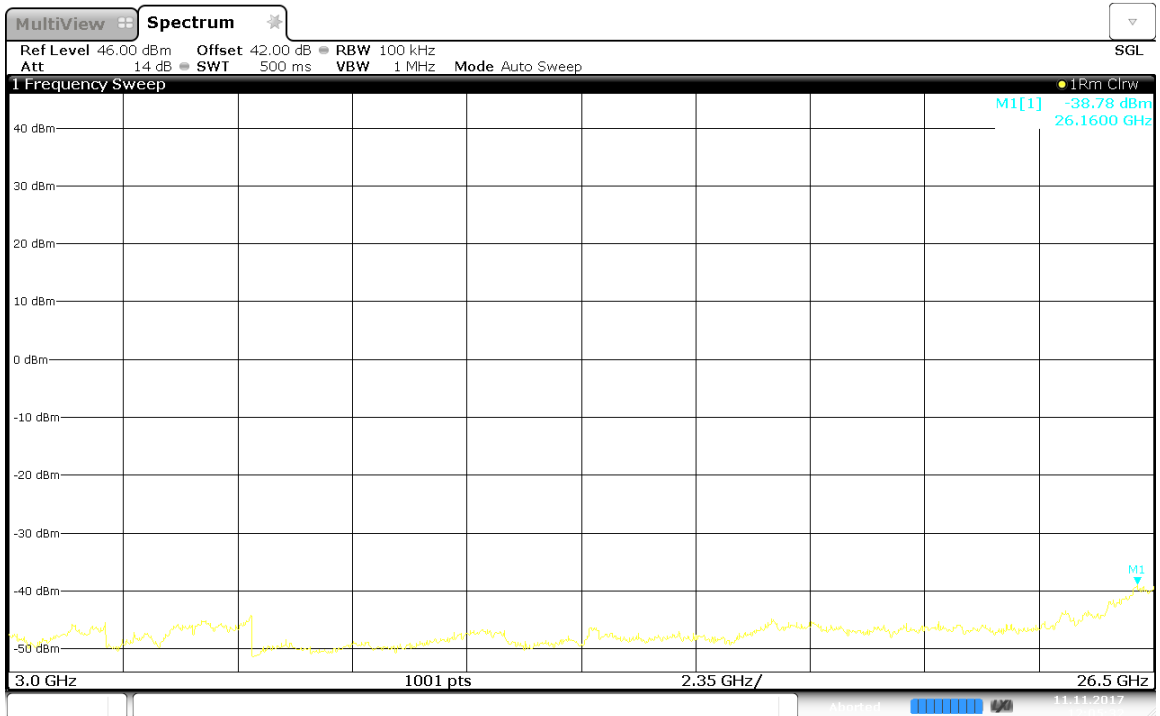
12:06:28 11.11.2017



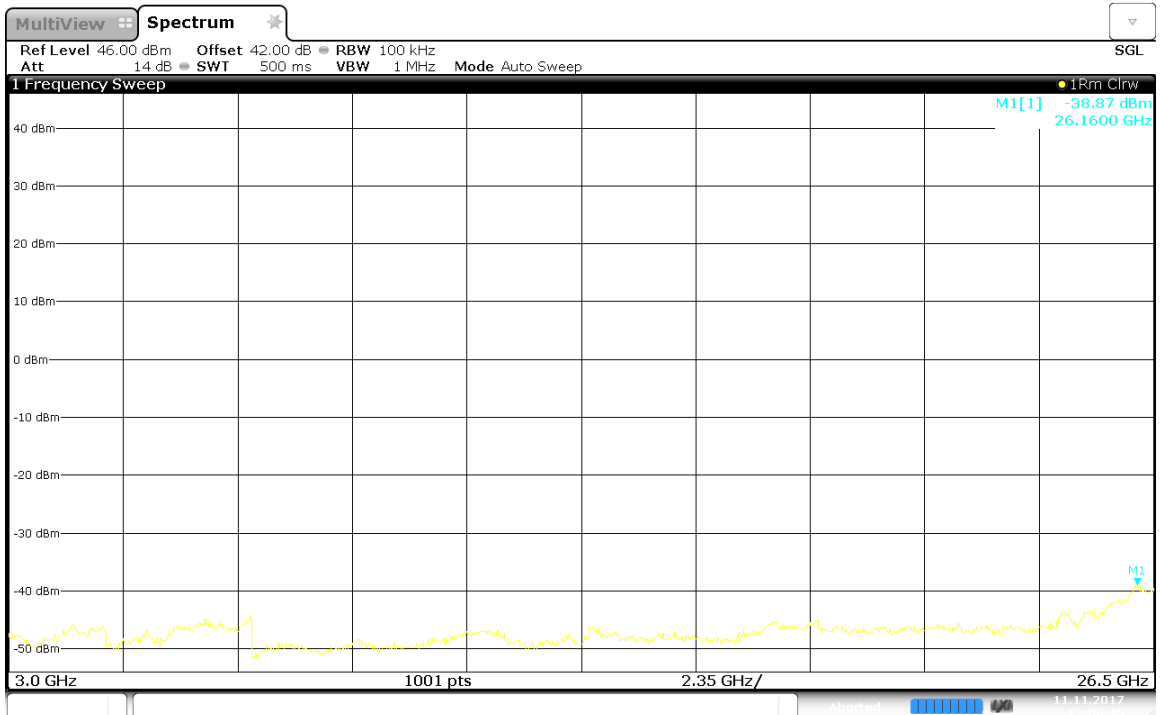
12:03:07 11.11.2017



12:04:20 11.11.2017



12:05:33 11.11.2017



12:06:45 11.11.2017

3.6. Occupied Bandwidth

3.6.1. Applicable Standard: FCC §2.1049

The spectrum was to be investigated to the tenth harmonics of the highest 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
DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2017.03.15	2018.03.15

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

3.6.2. Test Procedure

The RF out of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. 99% Power bandwidth was recorded.

3.6.3. Environmental Conditions

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

3.6.4. Test Result: Pass

3.6.5. Test Mode: Transmitting LTE

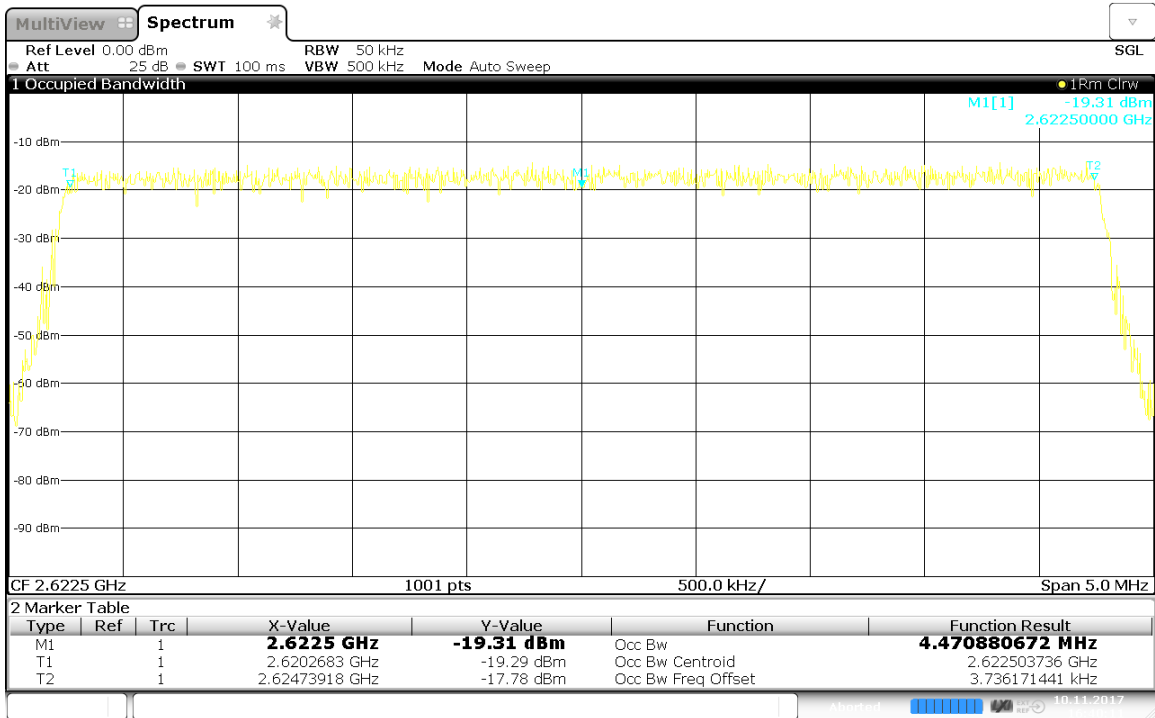
3.6.6. Test Data:

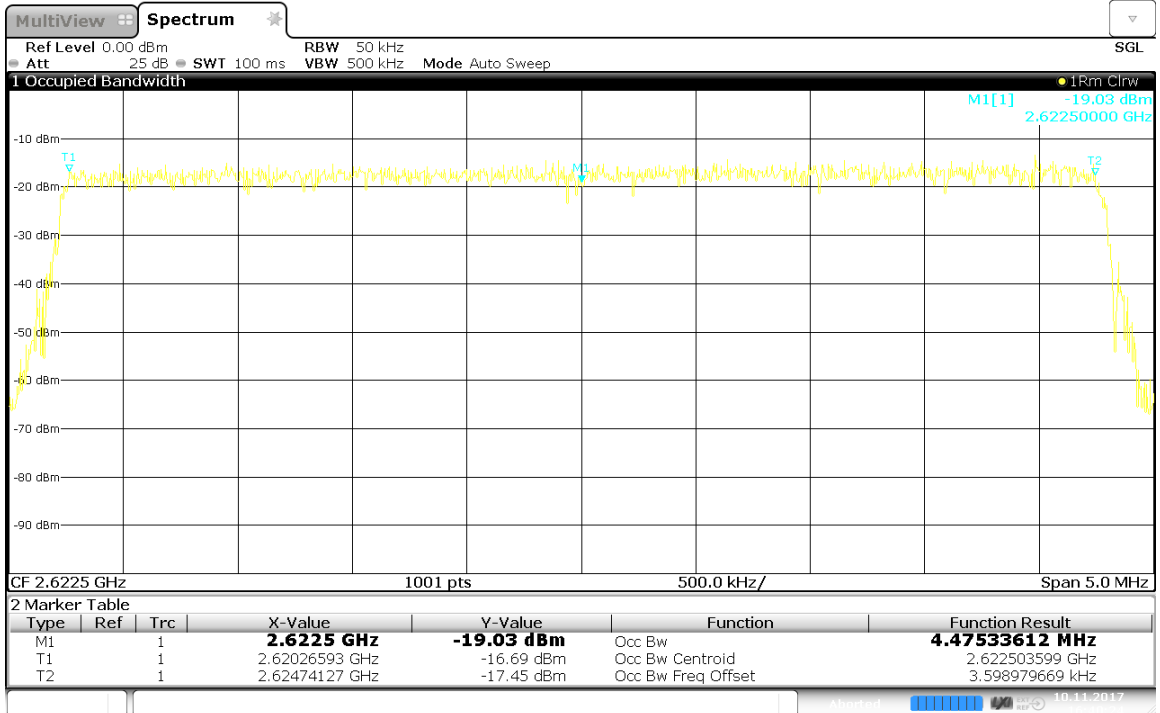
Single Carrier:

Channel Bandwidth :5M

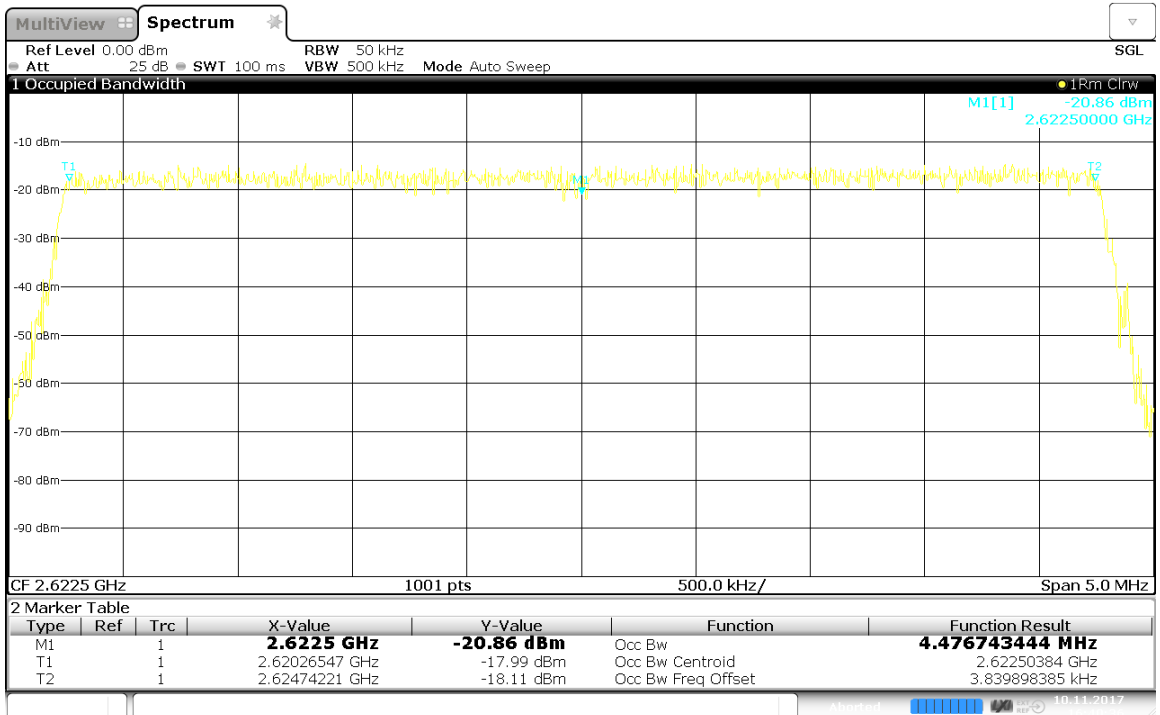
Center Freq. (MHz)	Port	99% Power Bandwidth (MHz)	Limit (MHz)
2622.5	1	4.4709	5
	2	4.4753	5
	3	4.4767	5
	4	4.4834	5
2655	1	4.4753	5
	2	4.4737	5
	3	4.477	5
	4	4.4754	5
2678.5	1	4.4785	5
	2	4.4765	5
	3	4.4791	5
	4	4.4749	5

5M -2622.5MHz-Port 1~4:

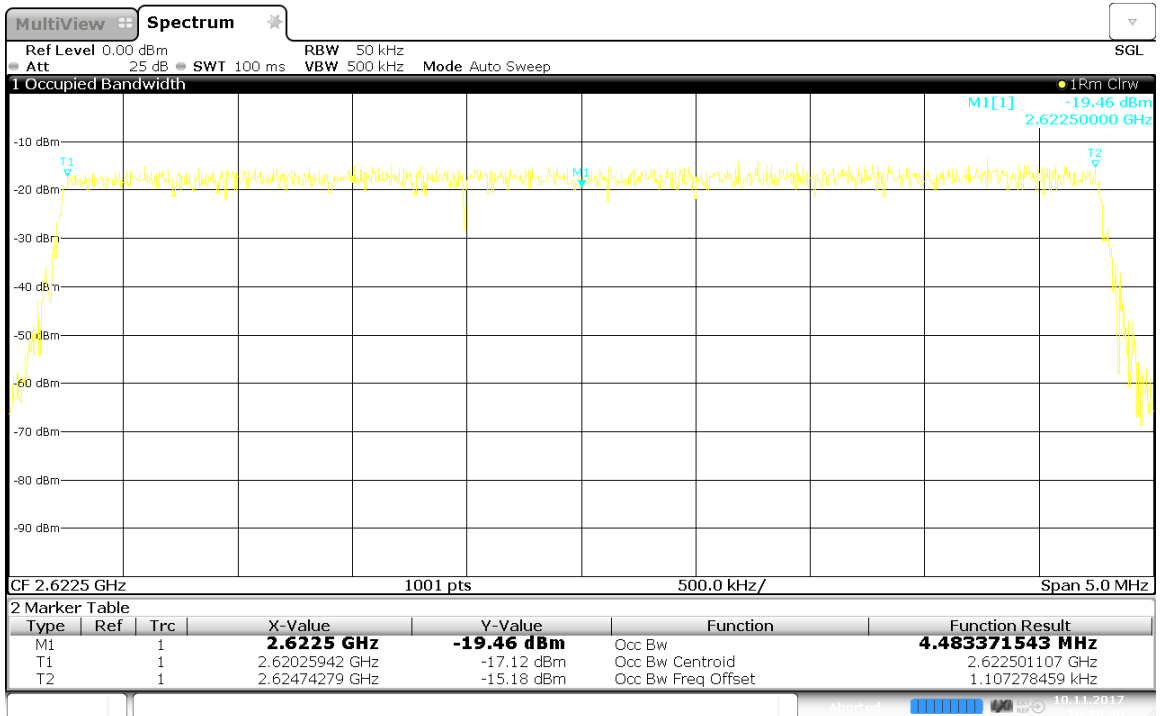




16:40:24 10.11.2017

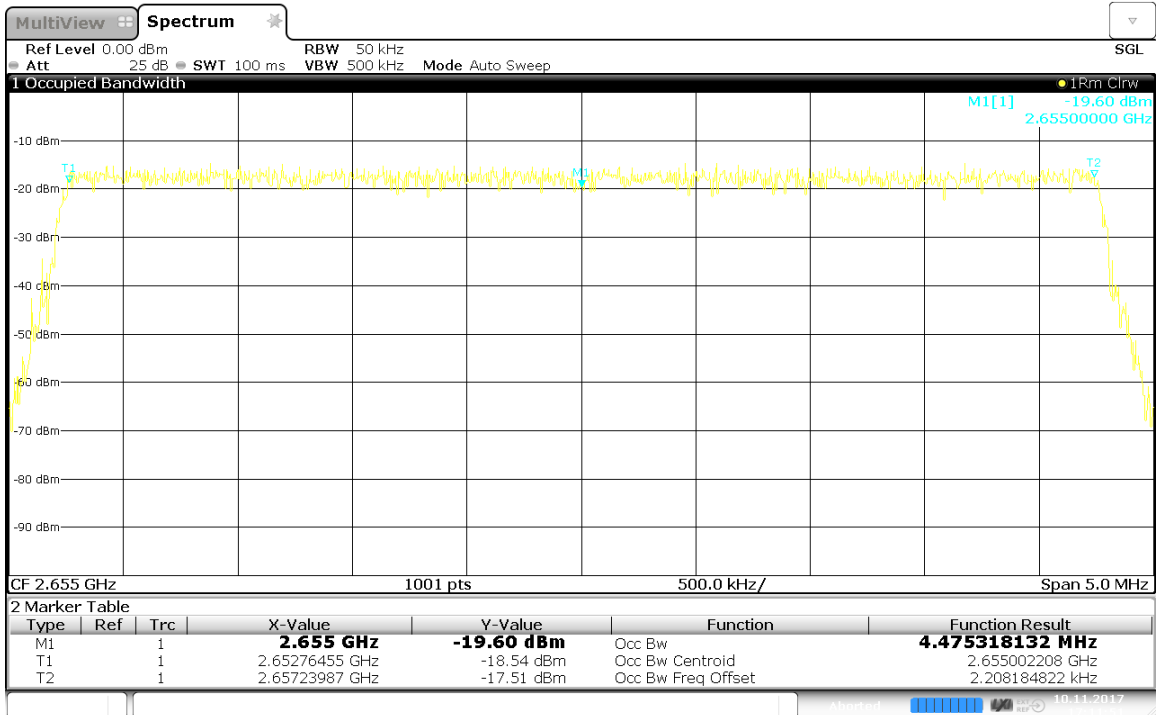


16:40:37 10.11.2017

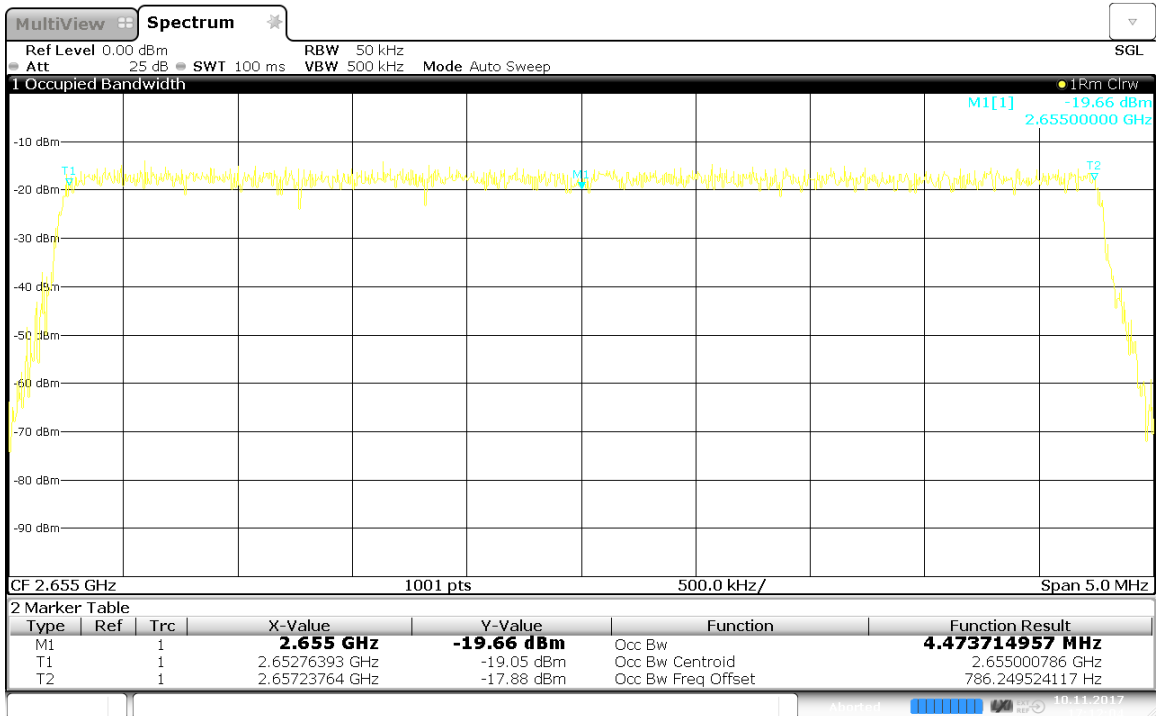


16:40:49 10.11.2017

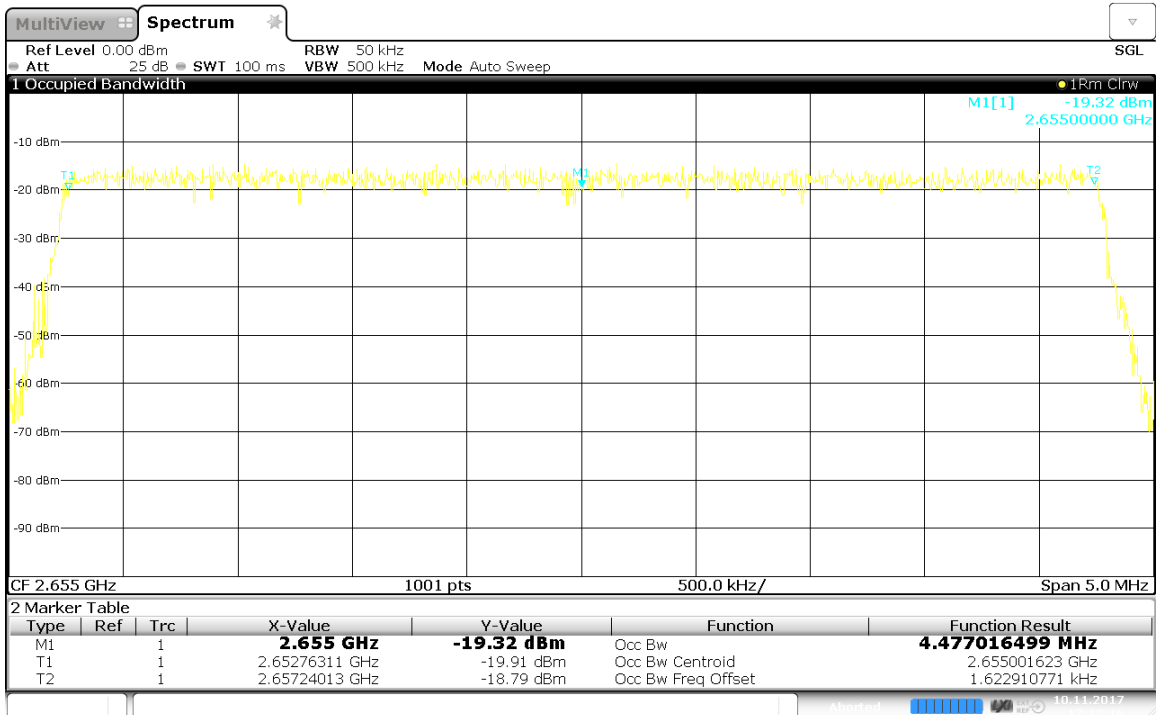
5M -2655MHz-Port 1~4:



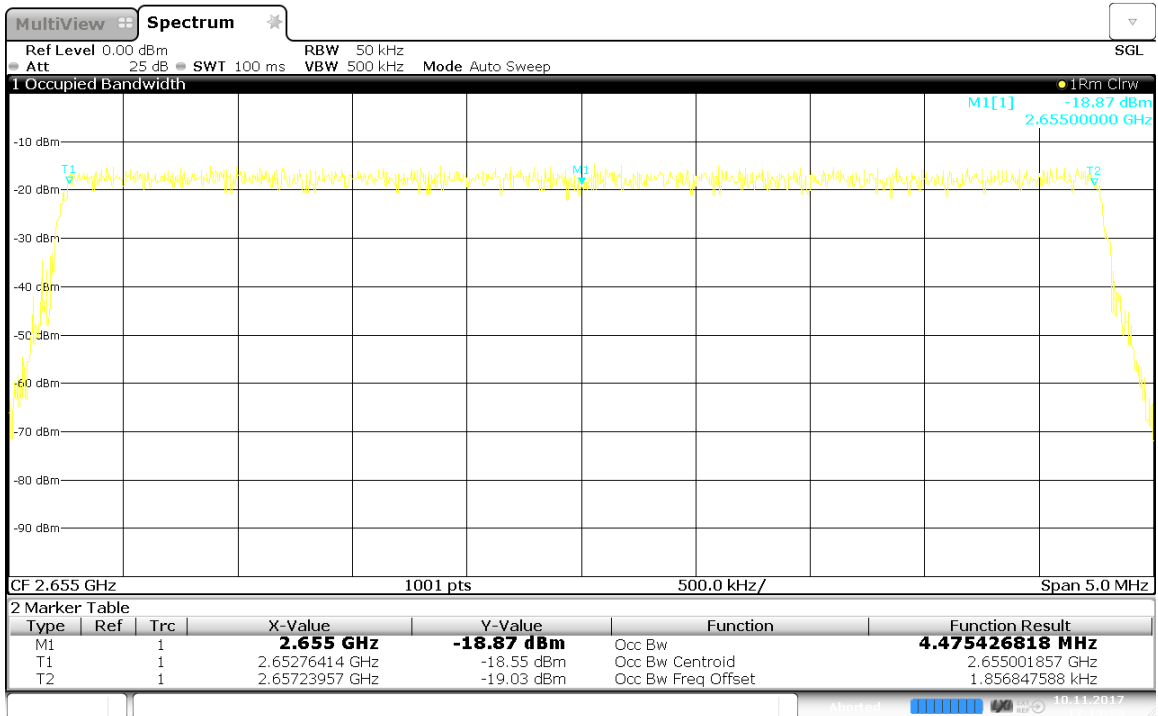
17:11:52 10.11.2017



17:12:05 10.11.2017

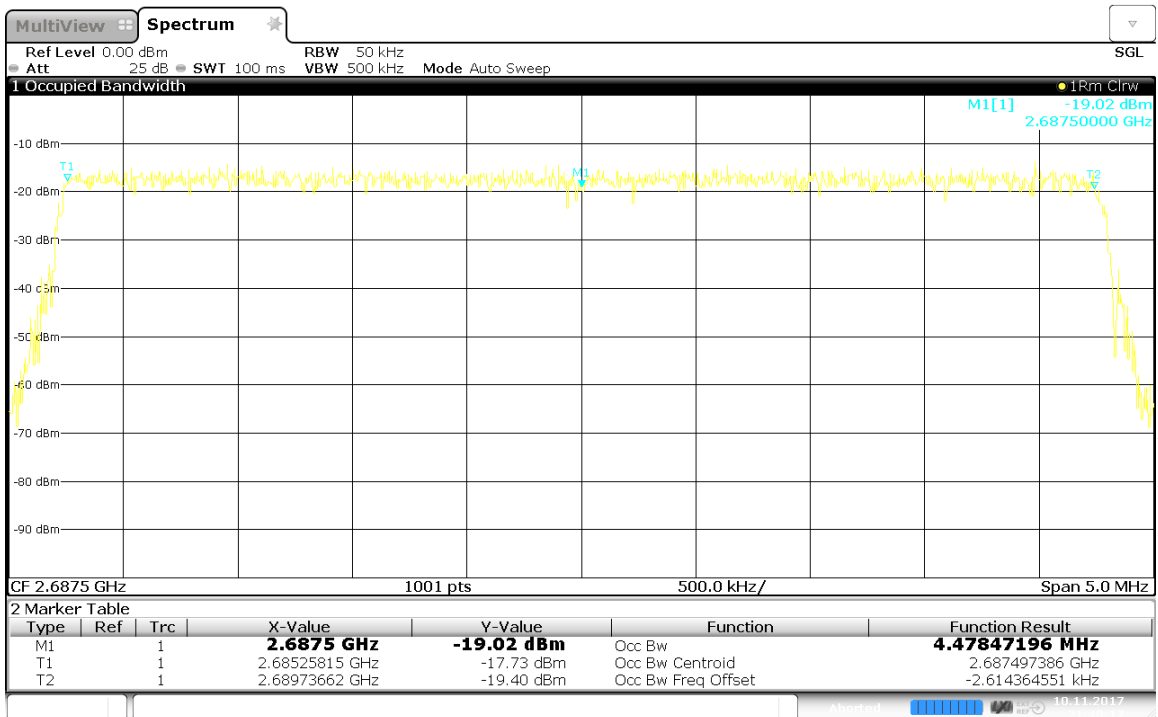


17:12:17 10.11.2017

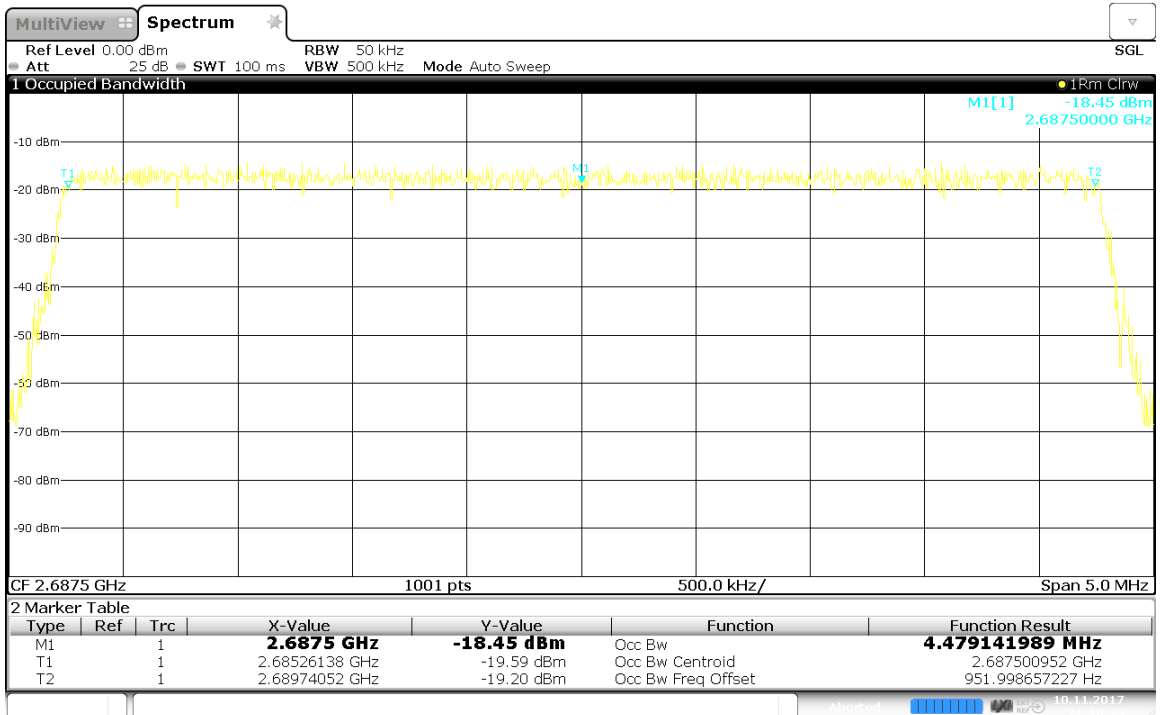
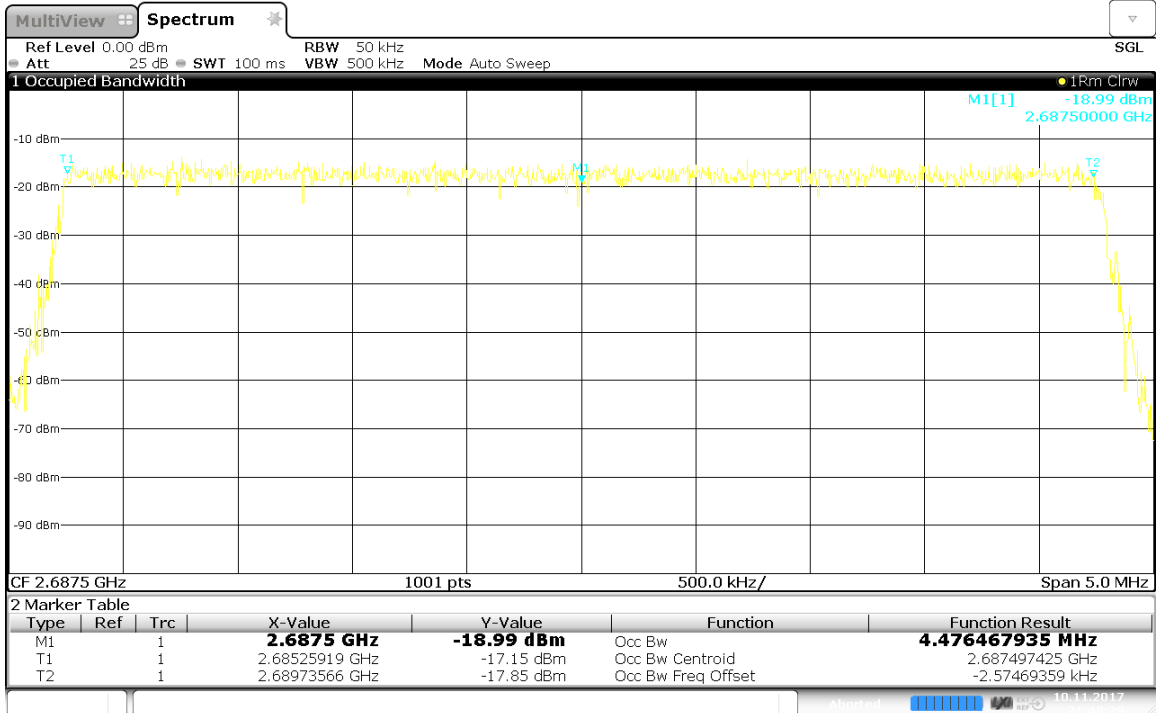


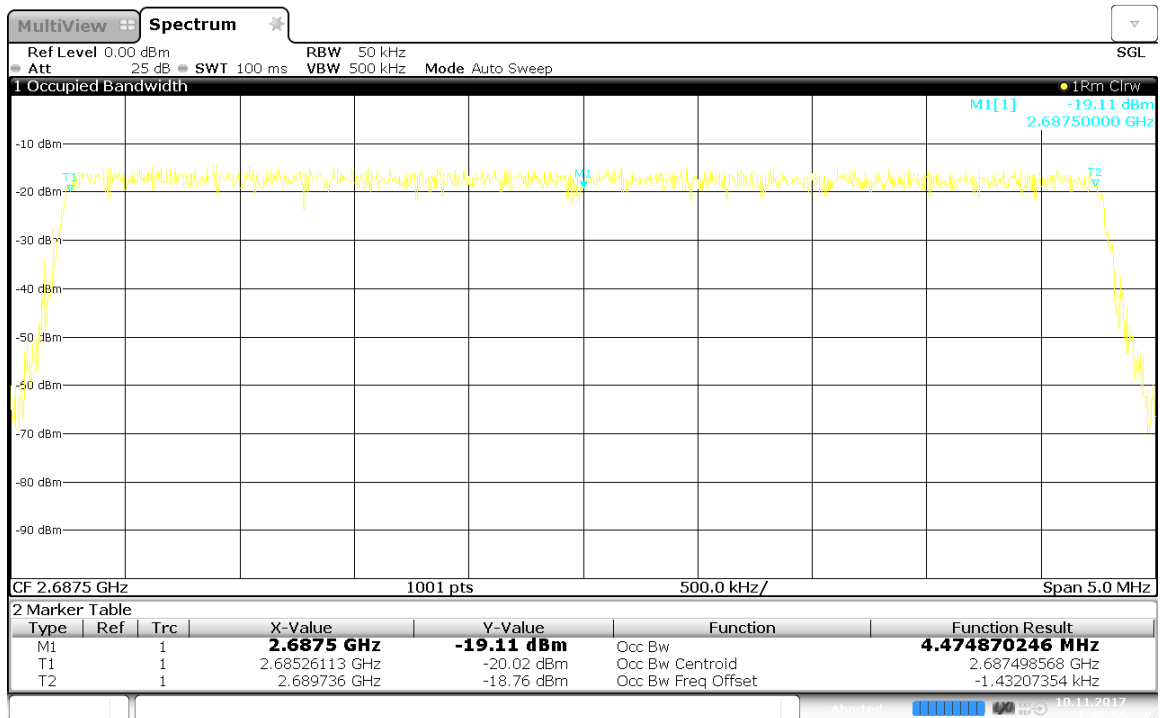
17:12:29 10.11.2017

5M -2687.5MHz-Port 1~4:



21:48:18 10.11.2017

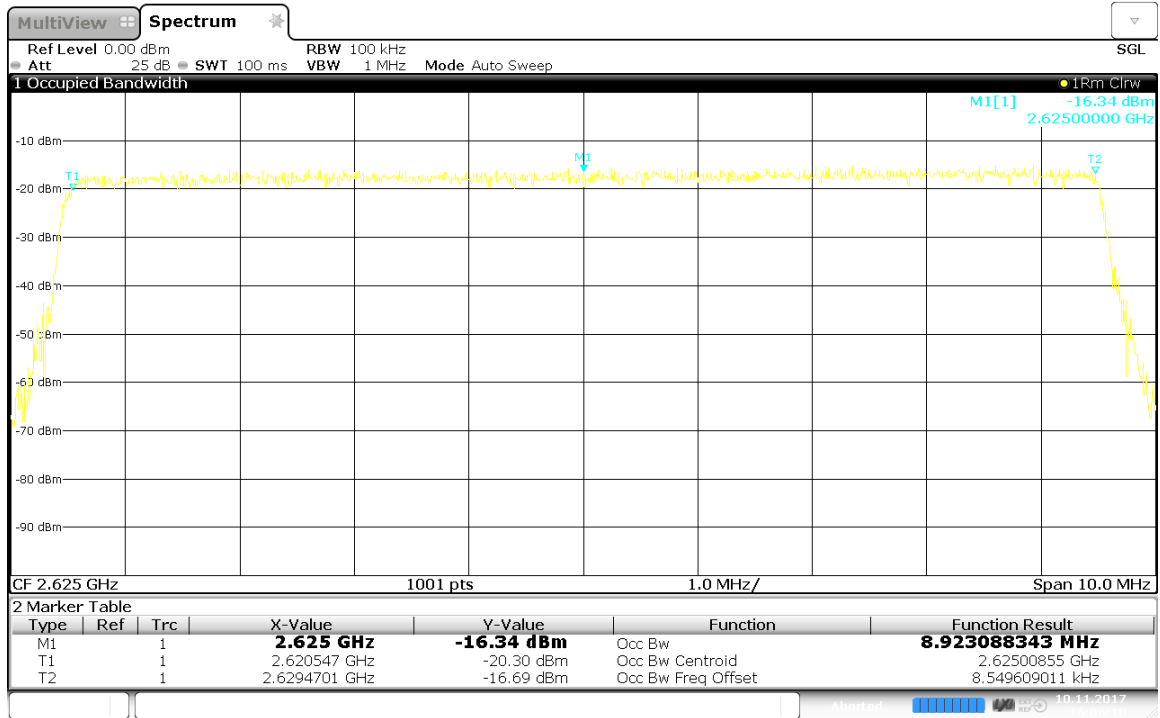
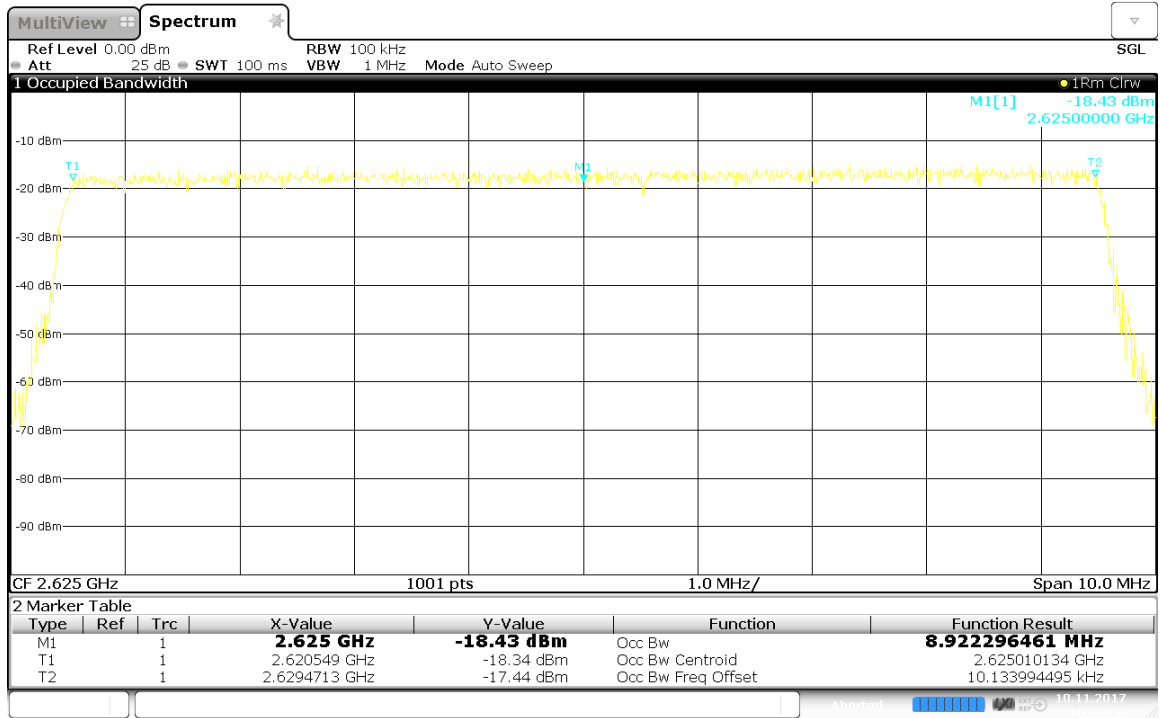


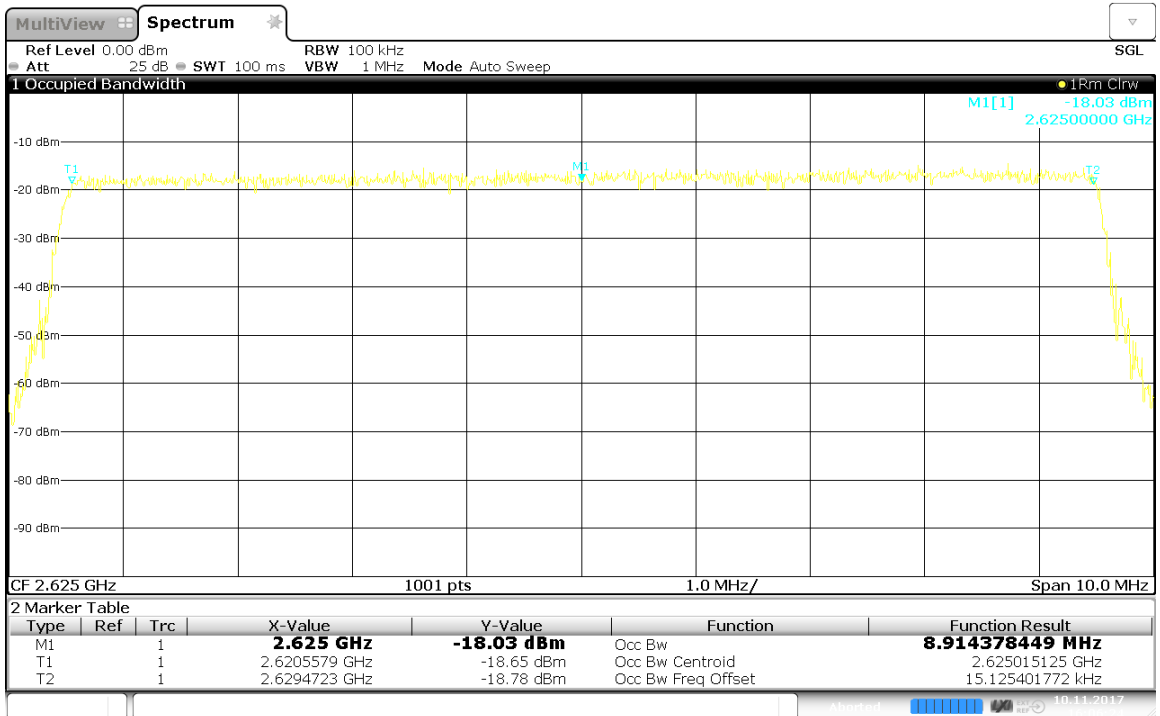


Channel Bandwidth :10M

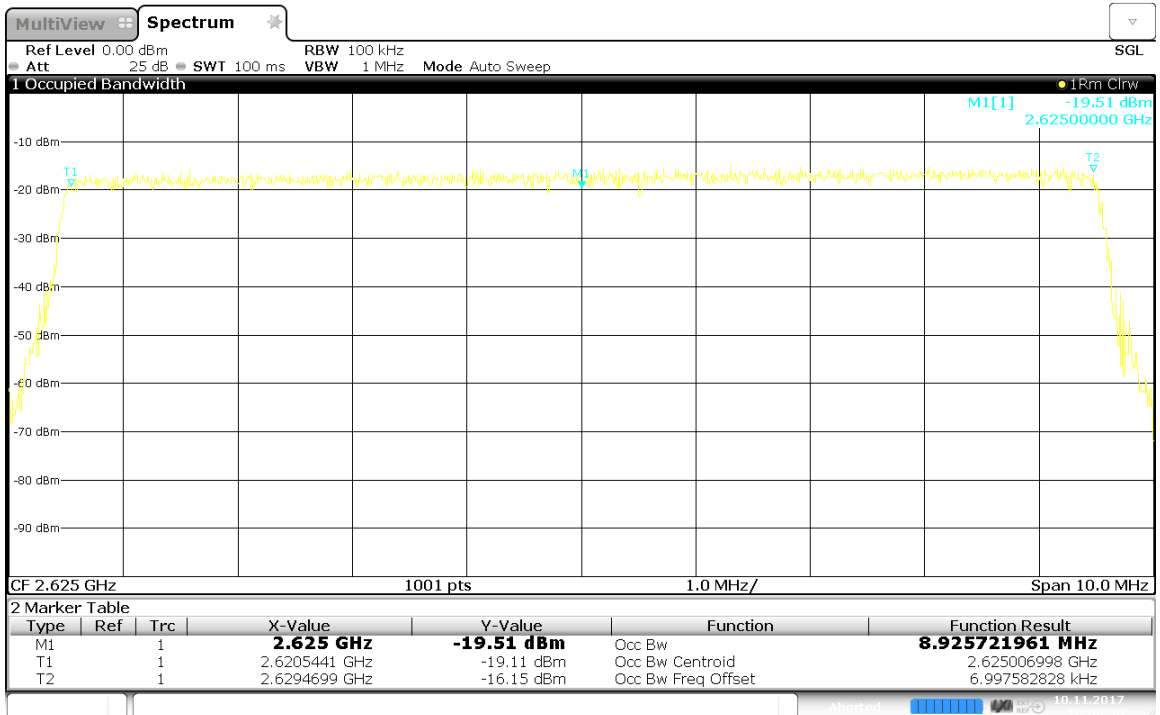
Center Freq. (MHz)	Port	99% Power Bandwidth (MHz)	Limit (MHz)
2625	1	8.9223	10
	2	8.9231	10
	3	8.9144	10
	4	8.9257	10
2655	1	8.9223	10
	2	8.9231	10
	3	8.9144	10
	4	8.9257	10
2685	1	8.9312	10
	2	8.9397	10
	3	8.9395	10
	4	8.9333	10

10M -2625MHz-Port 1~4:



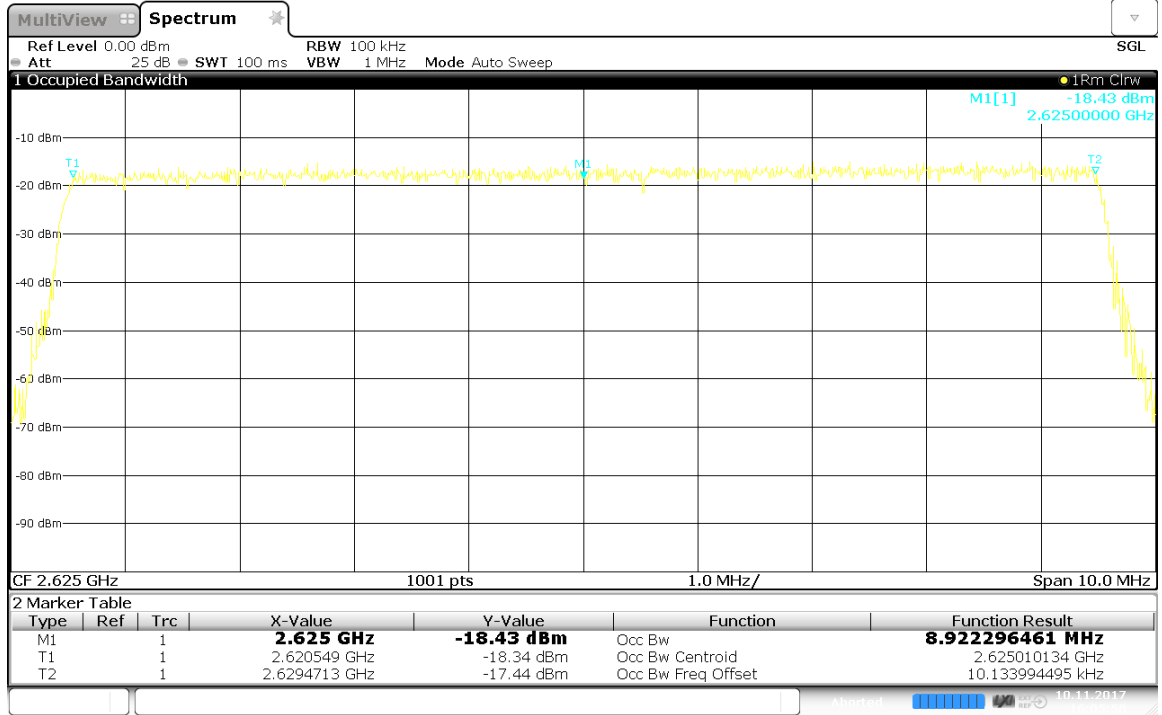


16:06:24 10.11.2017

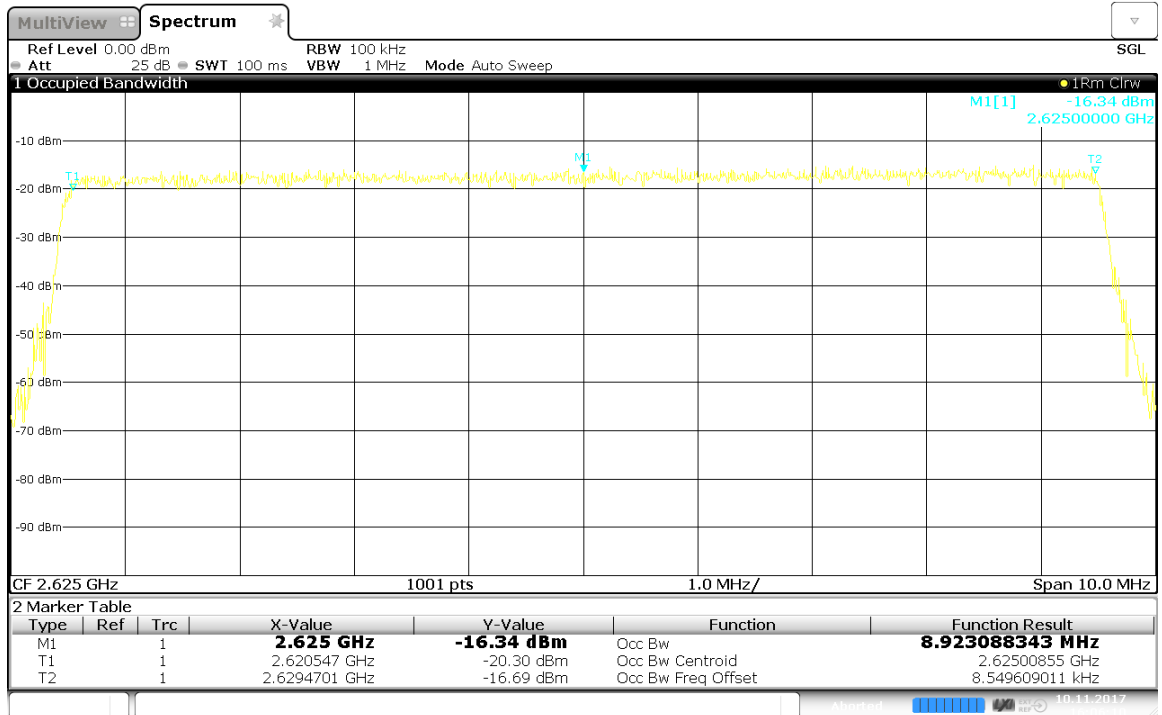


16:06:36 10.11.2017

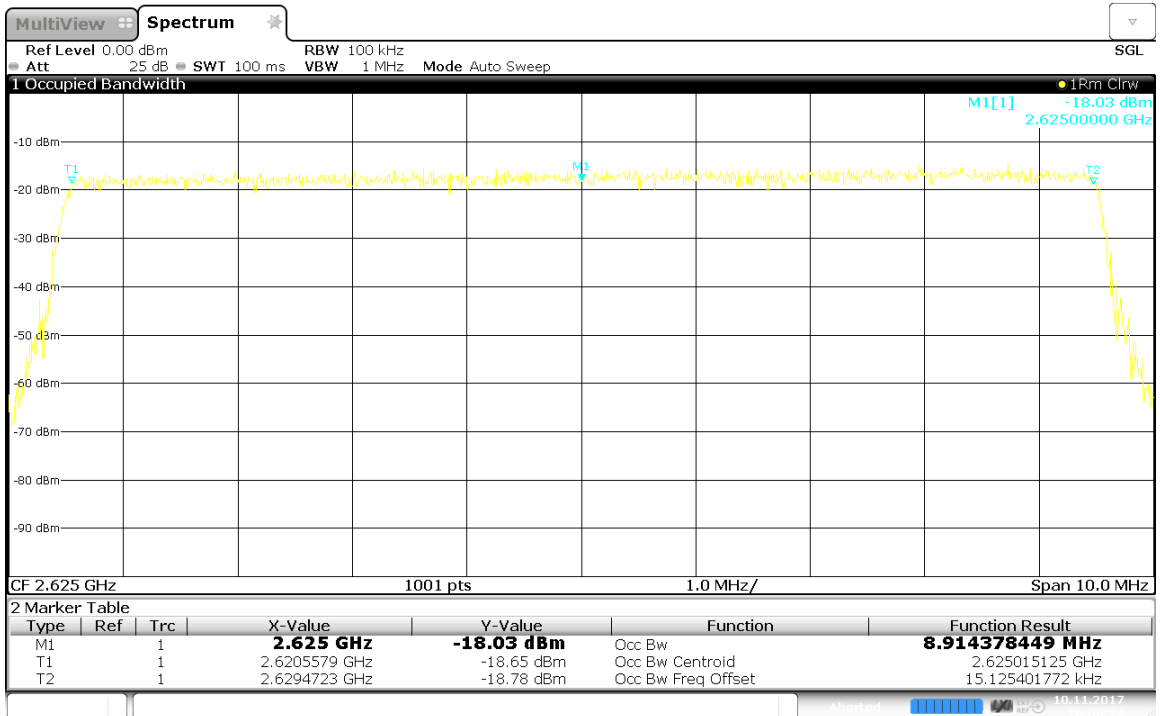
10M -2655MHz-Port 1~4:



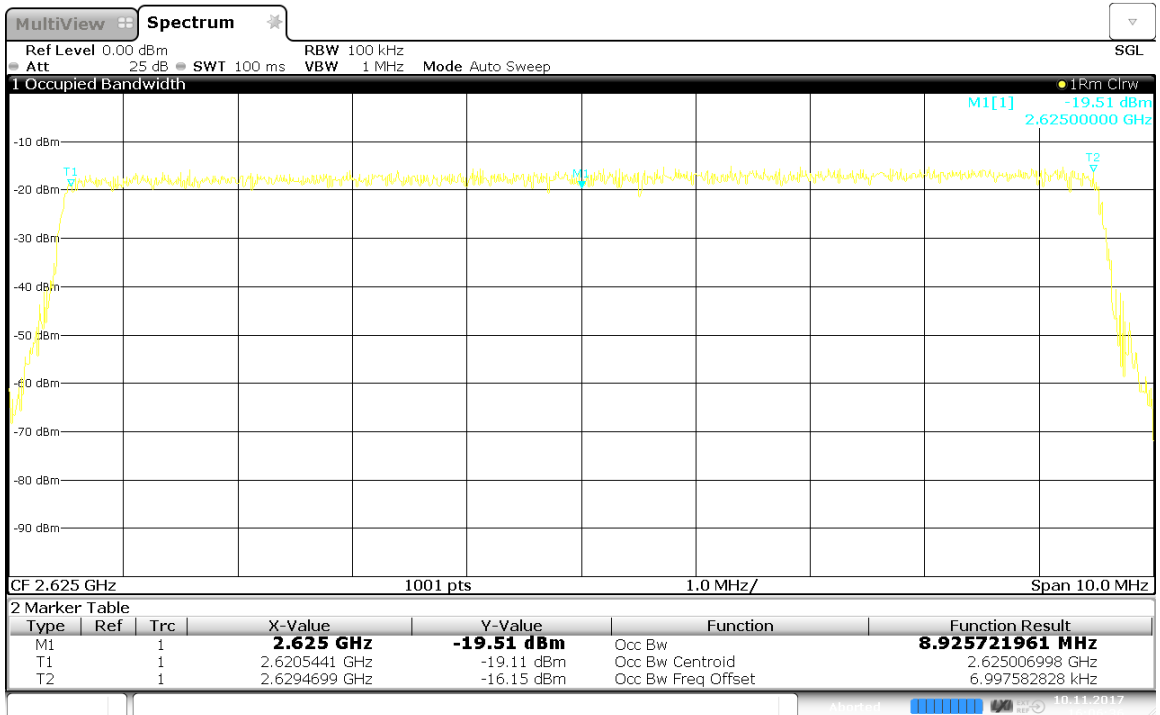
16:05:59 10.11.2017



16:06:11 10.11.2017

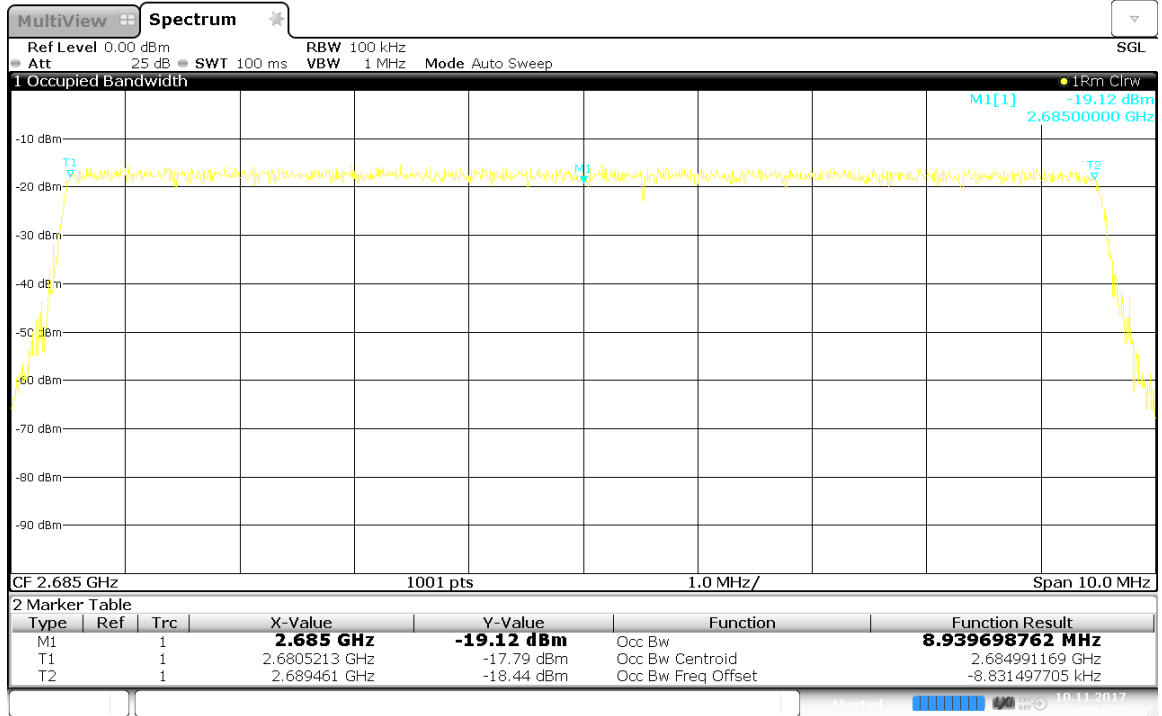
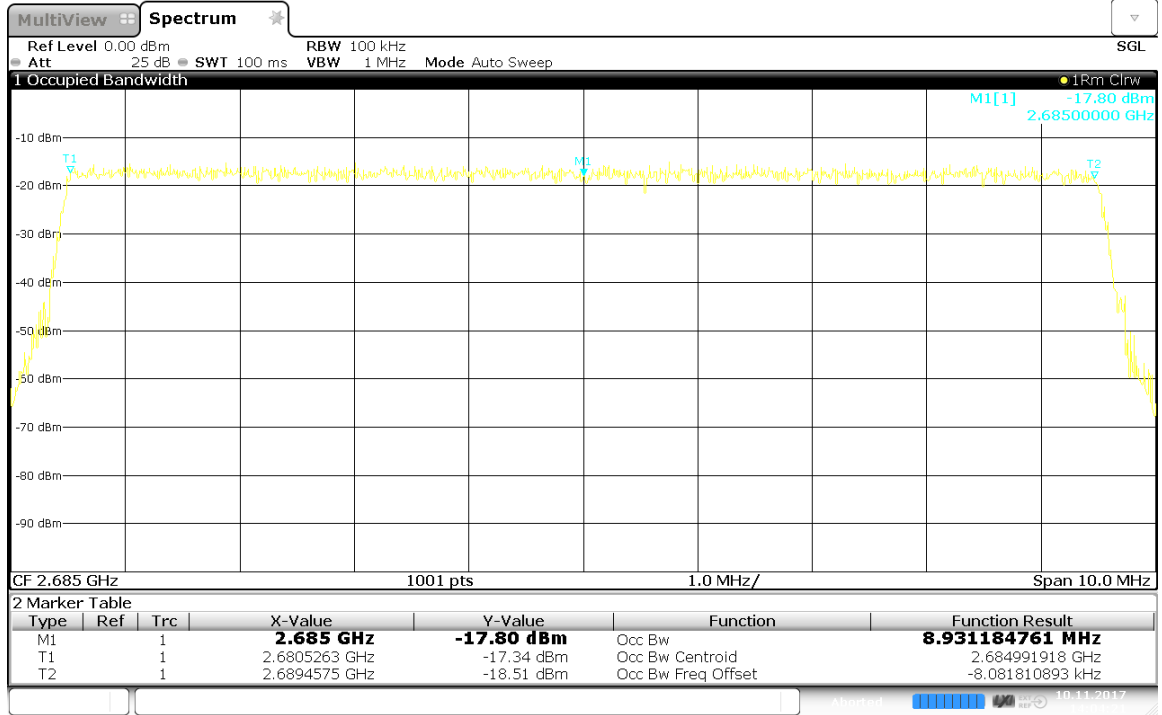


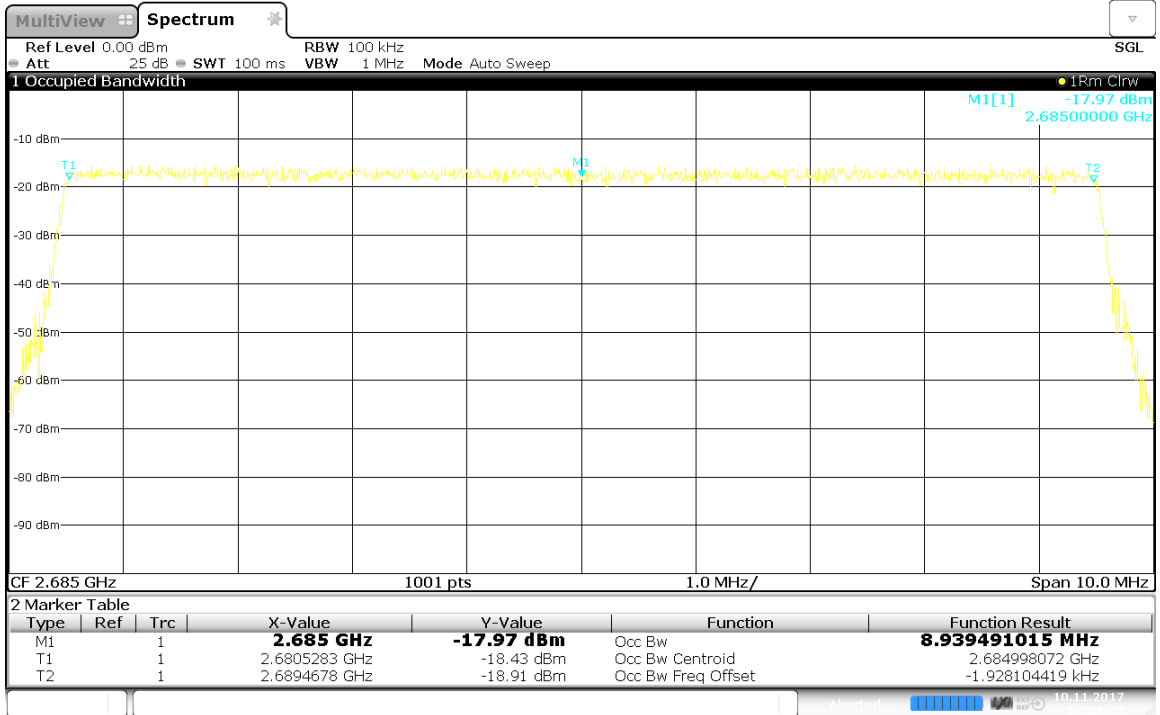
16:06:24 10.11.2017



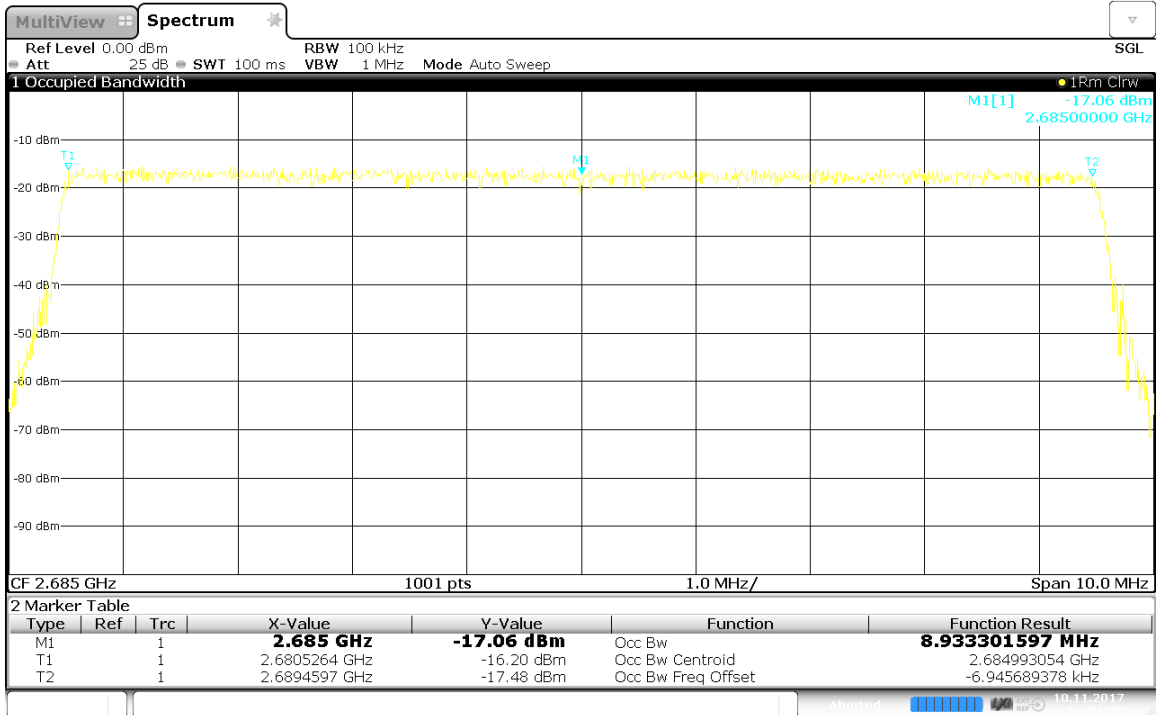
16:06:36 10.11.2017

10M -2685MHz-Port 1~4:





14:04:47 10.11.2017

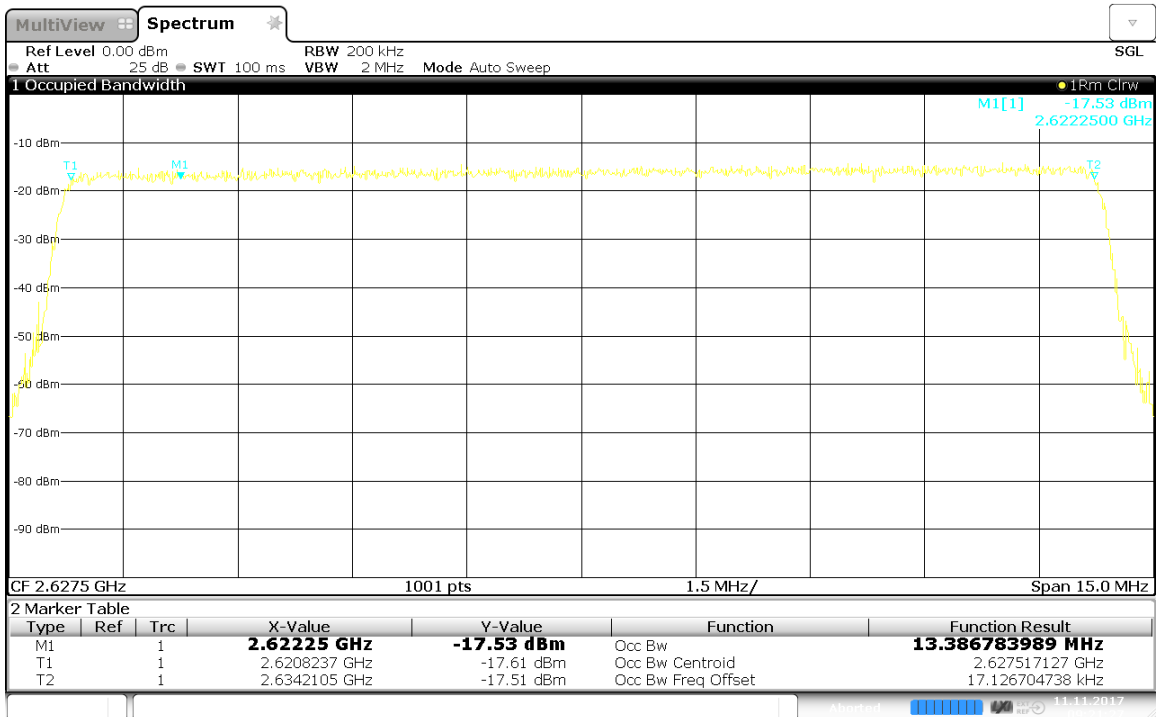


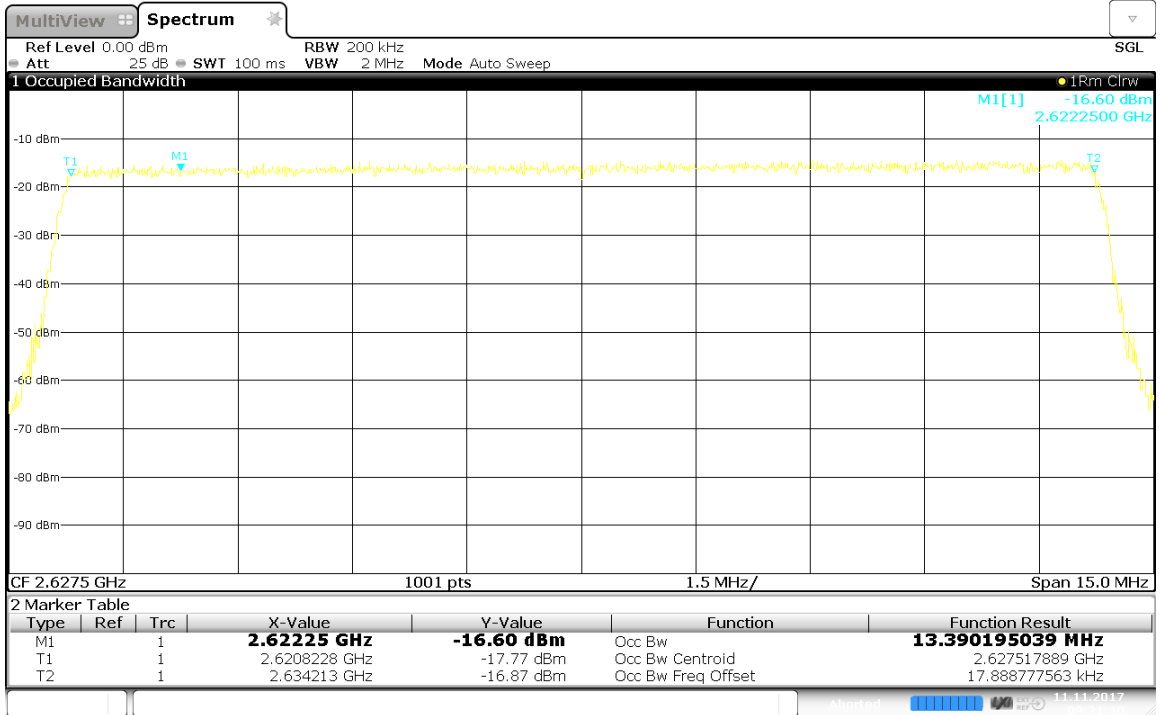
14:05:00 10.11.2017

Channel Bandwidth :15M

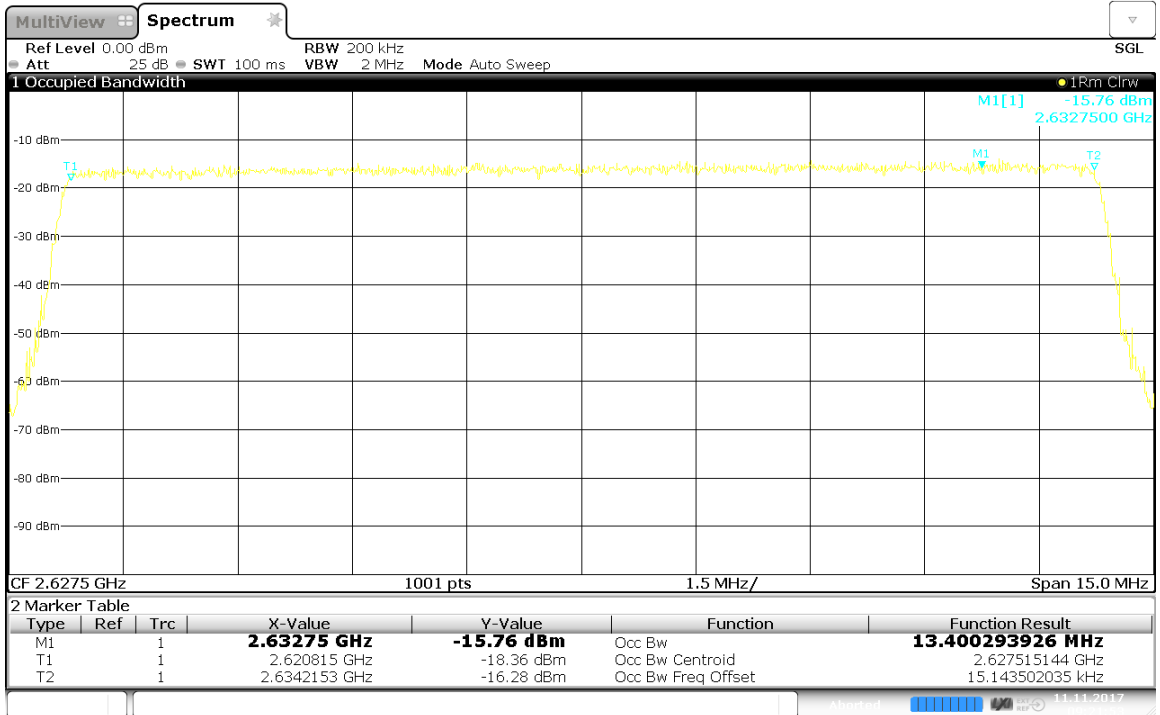
Center Freq. (MHz)	Port	99% Power Bandwidth (MHz)	Limit (MHz)
2627.5	1	13.3868	15
	2	13.3902	15
	3	13.4003	15
	4	13.4049	15
2655	1	13.4141	15
	2	13.4022	15
	3	13.4074	15
	4	13.3983	15
2682.5	1	13.3996	15
	2	13.3924	15
	3	13.4162	15
	4	13.4045	15

15M -2627.5MHz-Port 1~4:

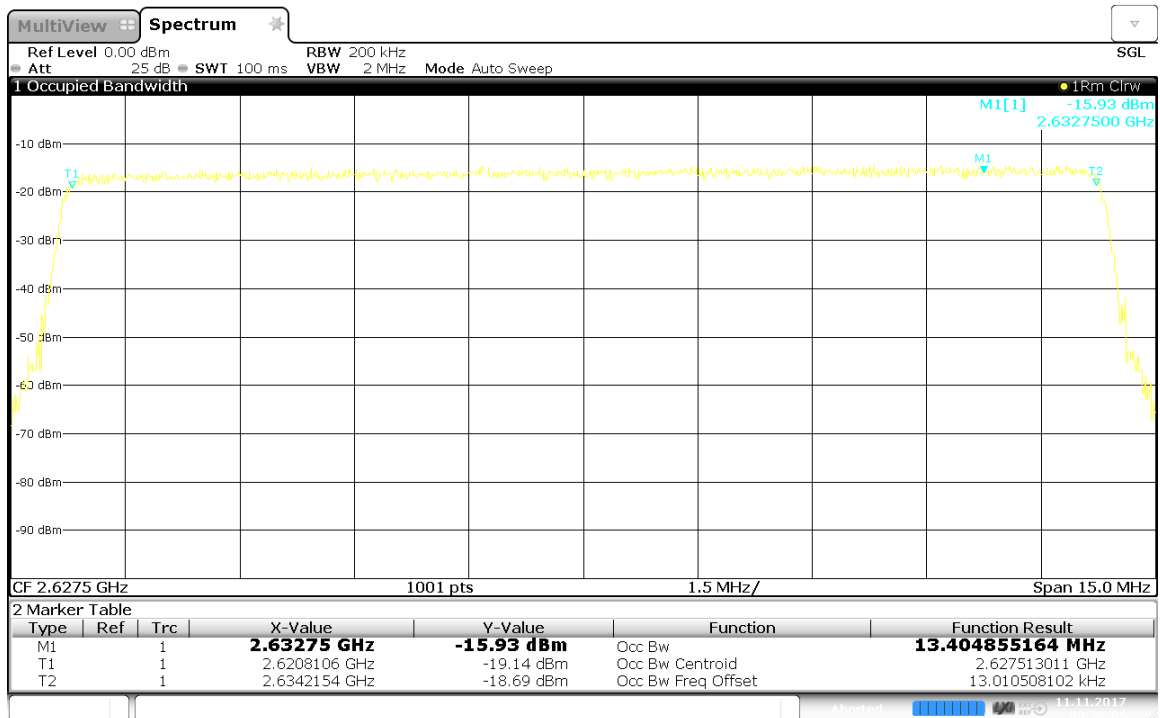




09:21:41 11.11.2017

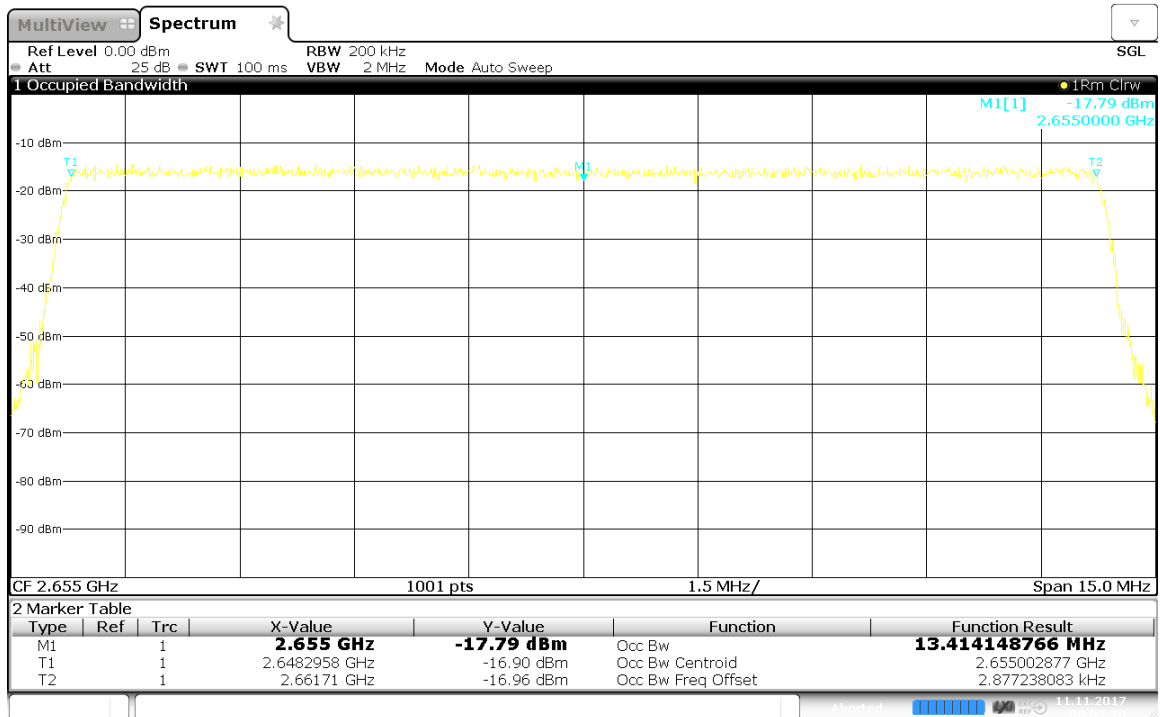


09:21:53 11.11.2017

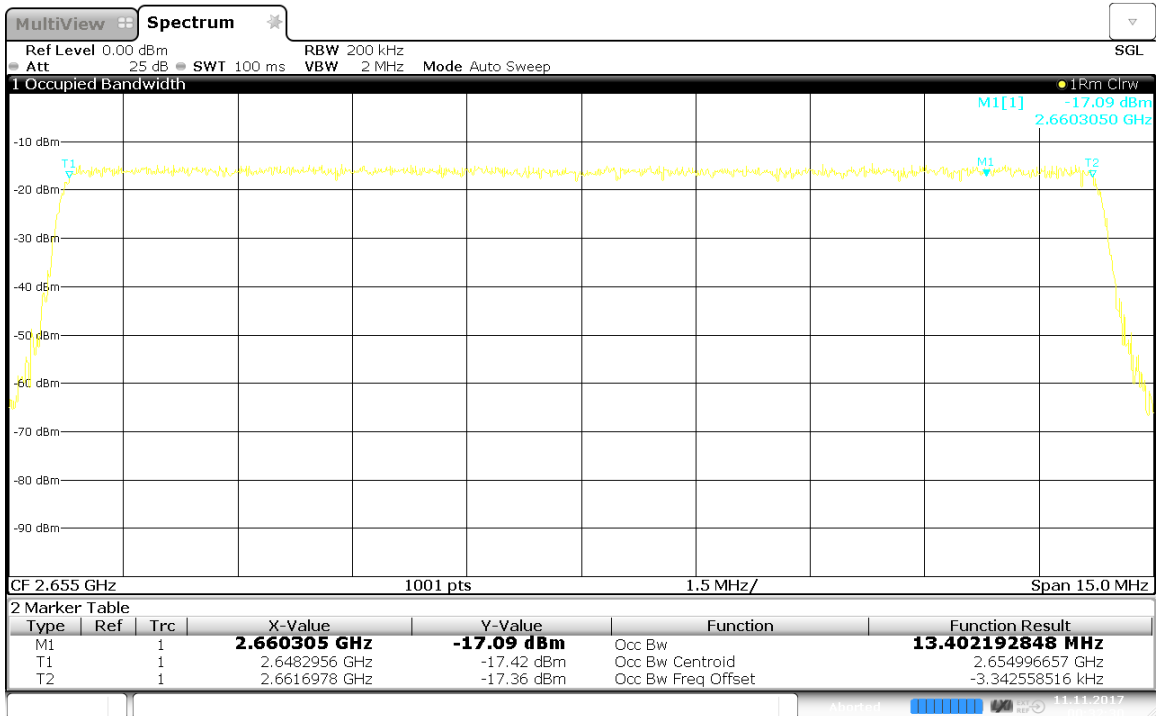


09:22:06 11.11.2017

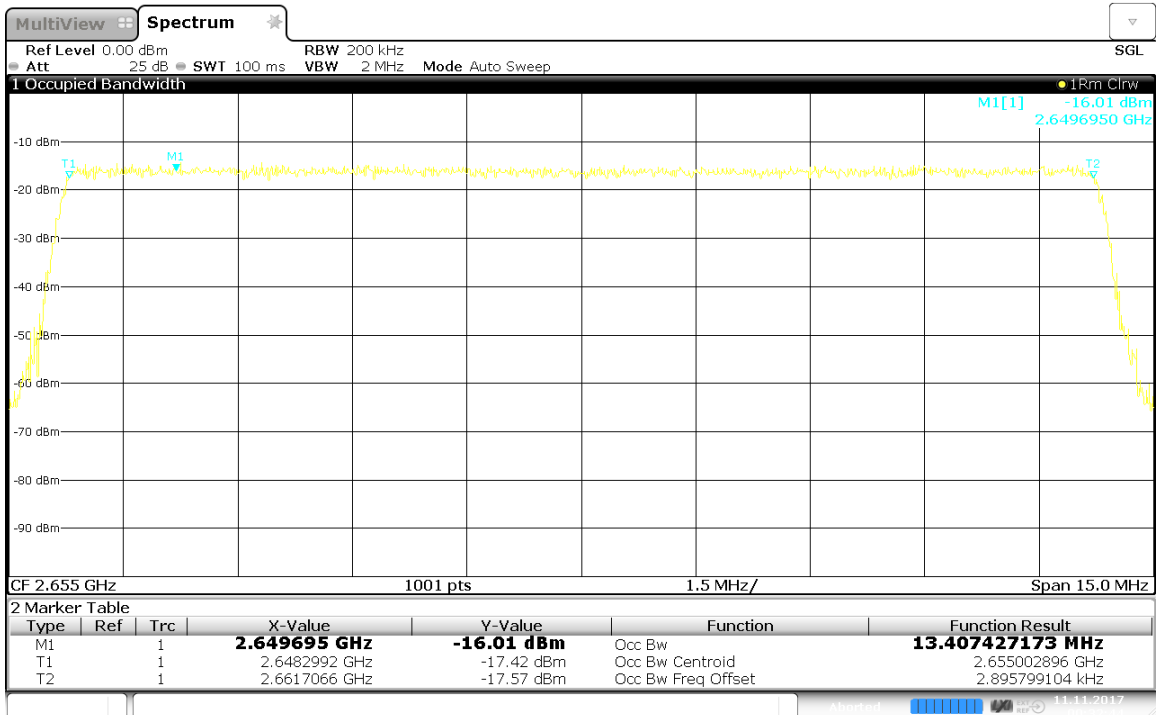
15M -2655MHz-Port 1~4:



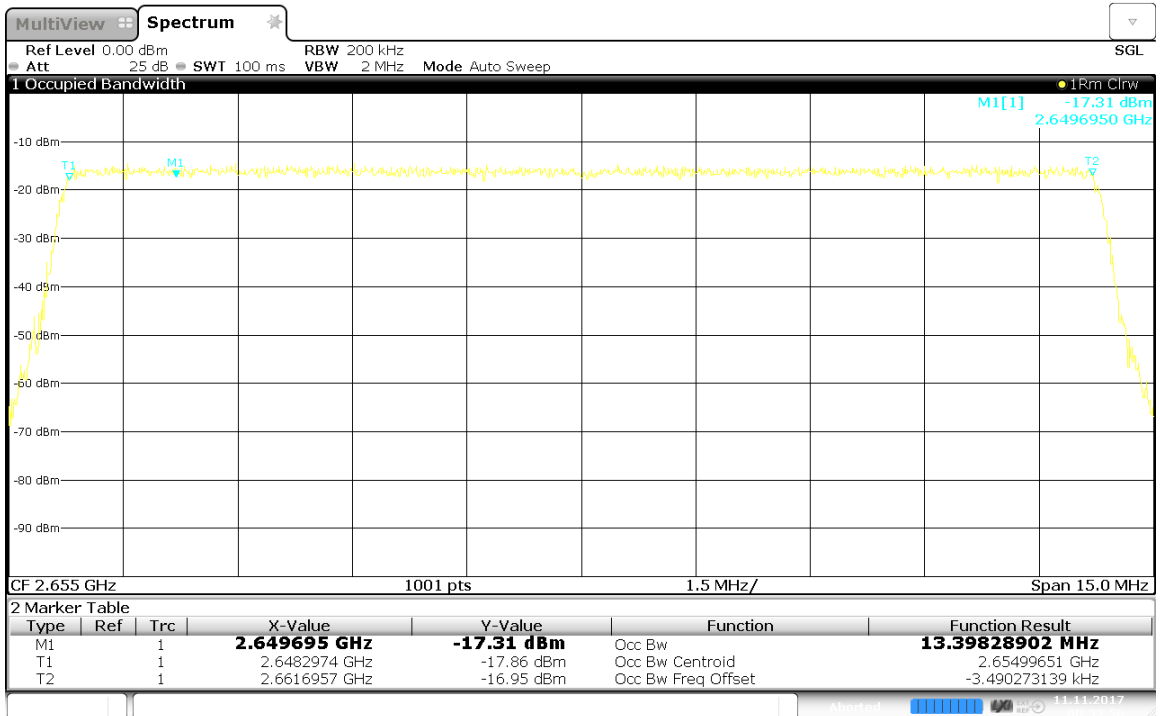
00:32:19 11.11.2017



00:32:31 11.11.2017

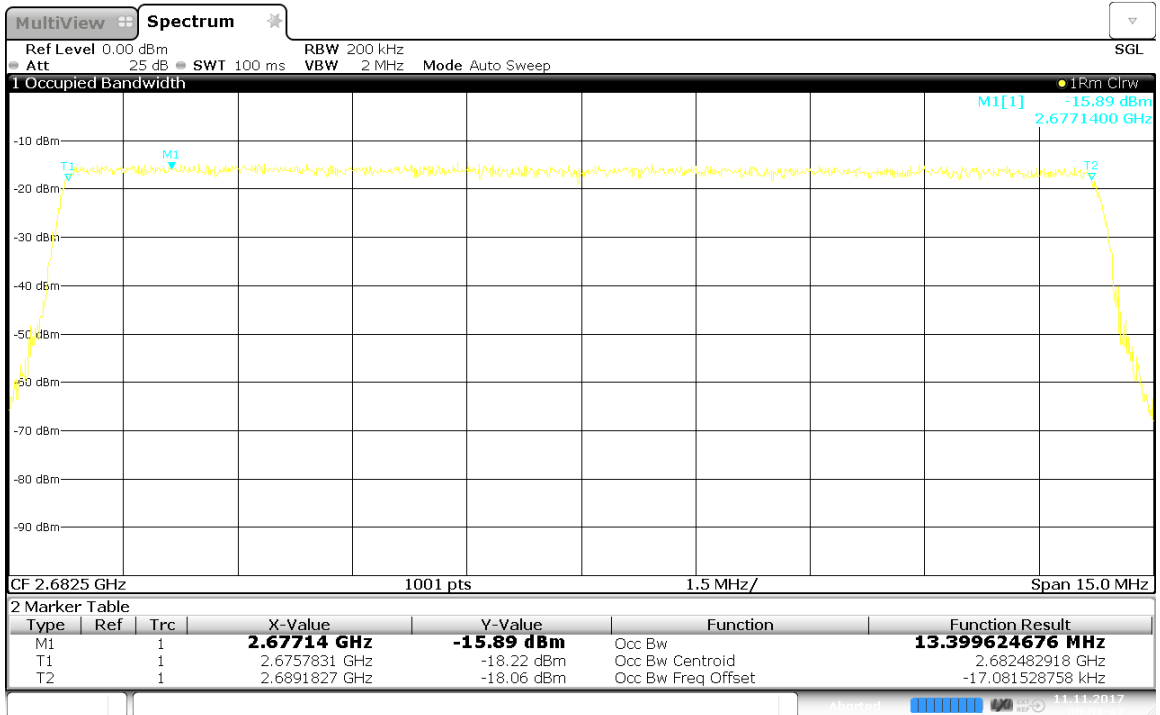


00:32:44 11.11.2017

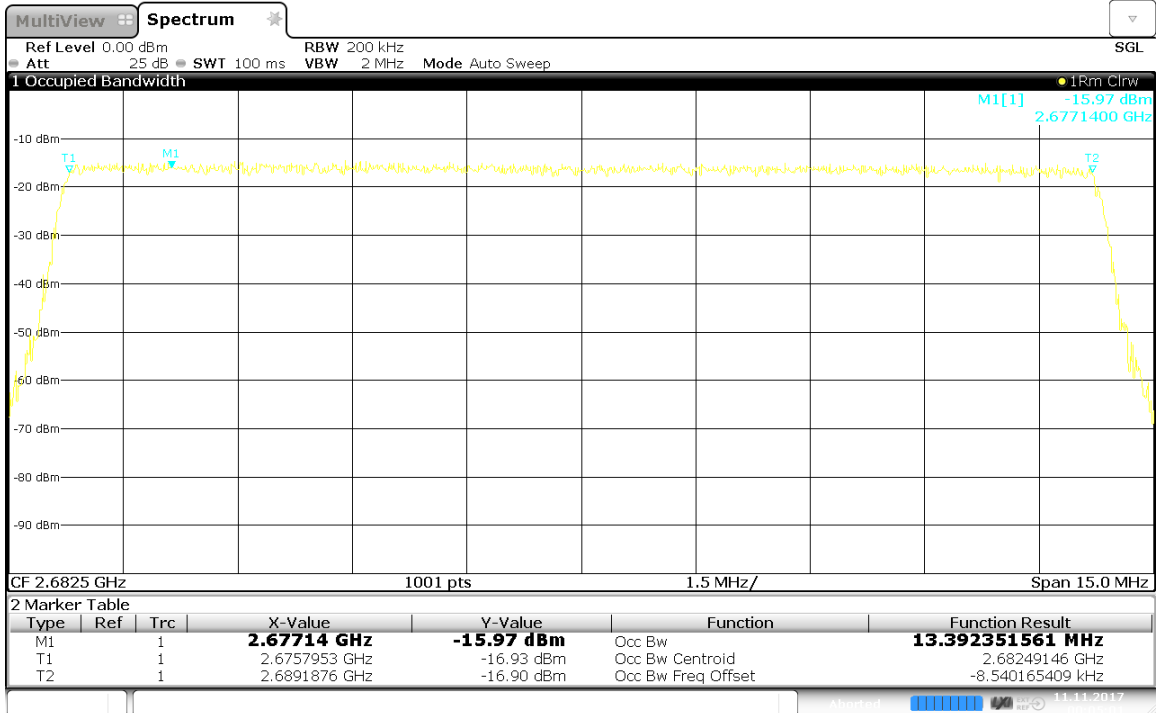


00:32:56 11.11.2017

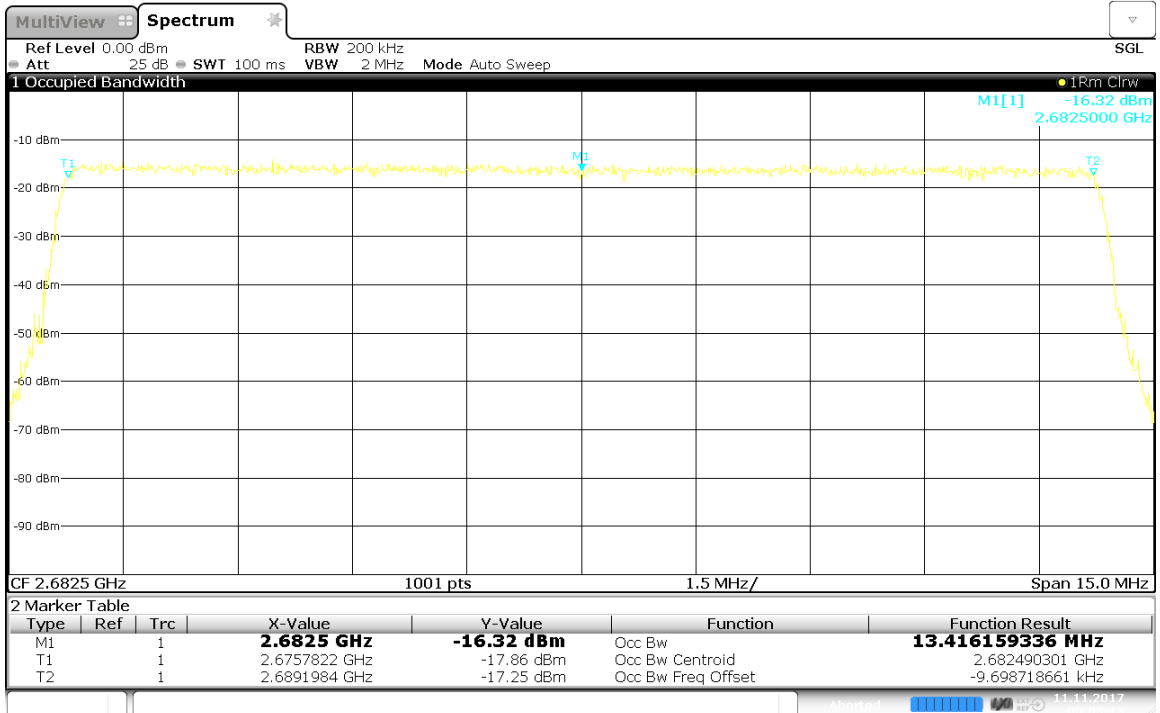
15M -2682.5MHz-Port 1~4:



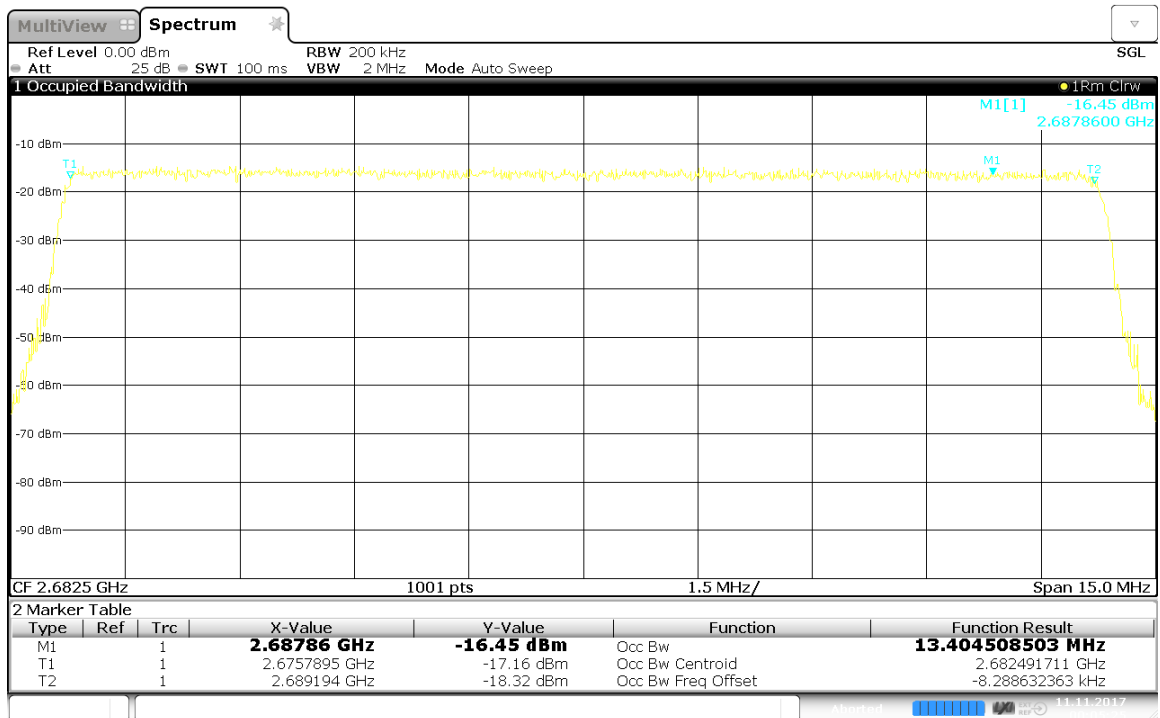
00:04:49 11.11.2017



00:05:01 11.11.2017



00:05:13 11.11.2017

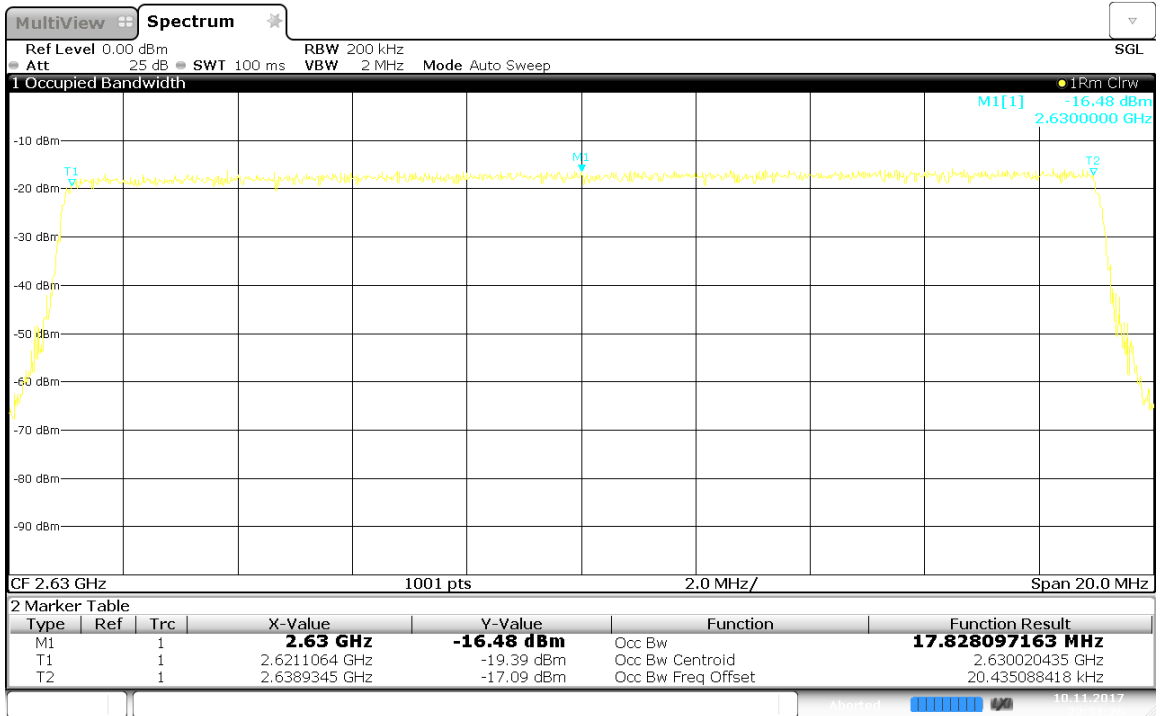


00:05:26 11.11.2017

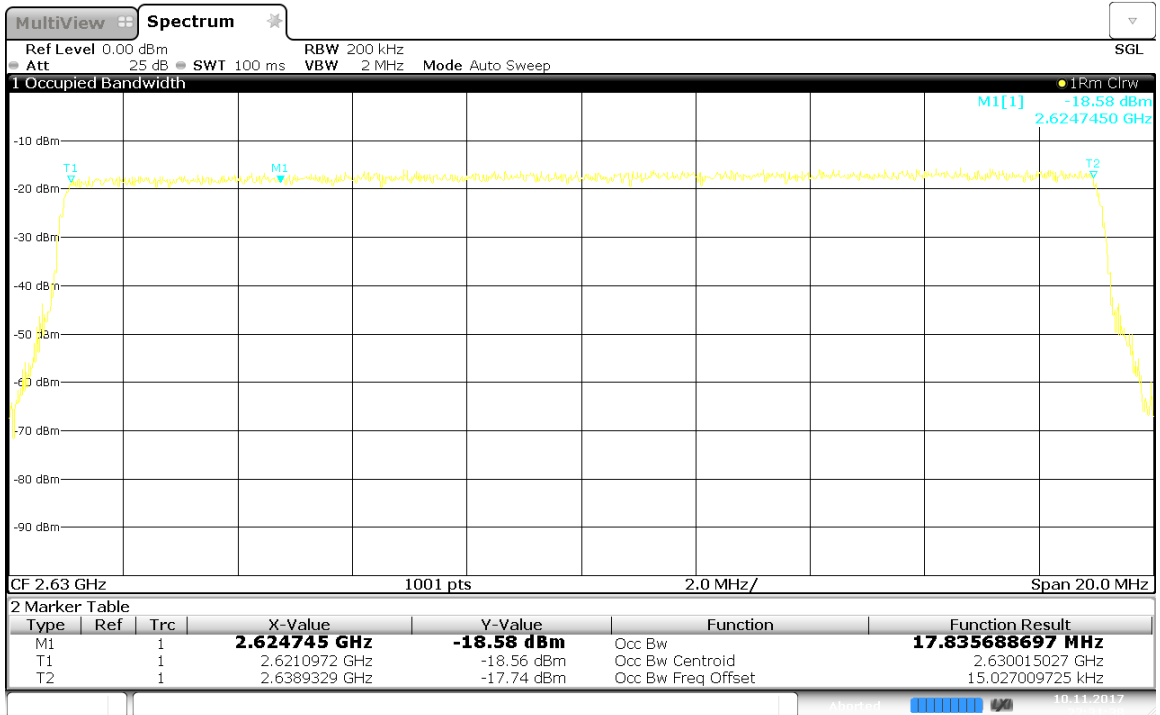
Channel Bandwidth :20M

Center Freq. (MHz)	Port	99% Power Bandwidth (MHz)	Limit (MHz)
2630	1	17.8281	20
	2	17.8357	20
	3	17.8214	20
	4	17.8239	20
2655	1	17.8524	20
	2	17.8356	20
	3	17.8556	20
	4	17.8516	20
2680	1	17.8405	20
	2	17.8256	20
	3	17.8146	20
	4	17.8478	20

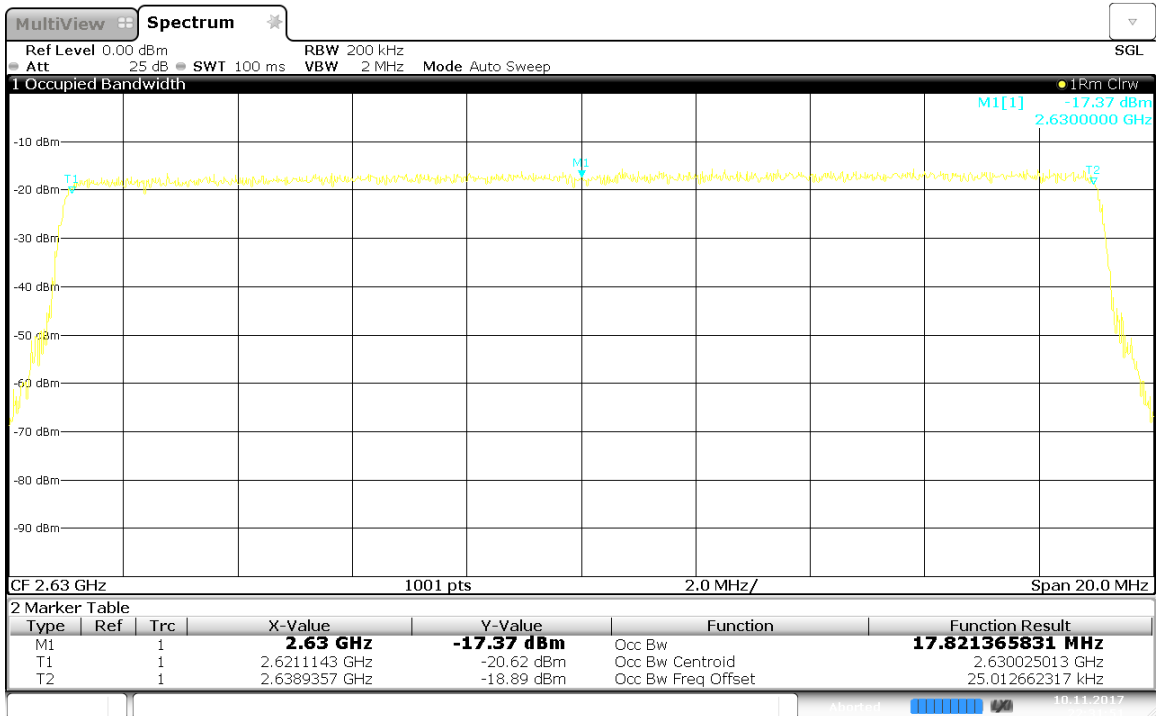
20M -2630MHz-Port 1~4:



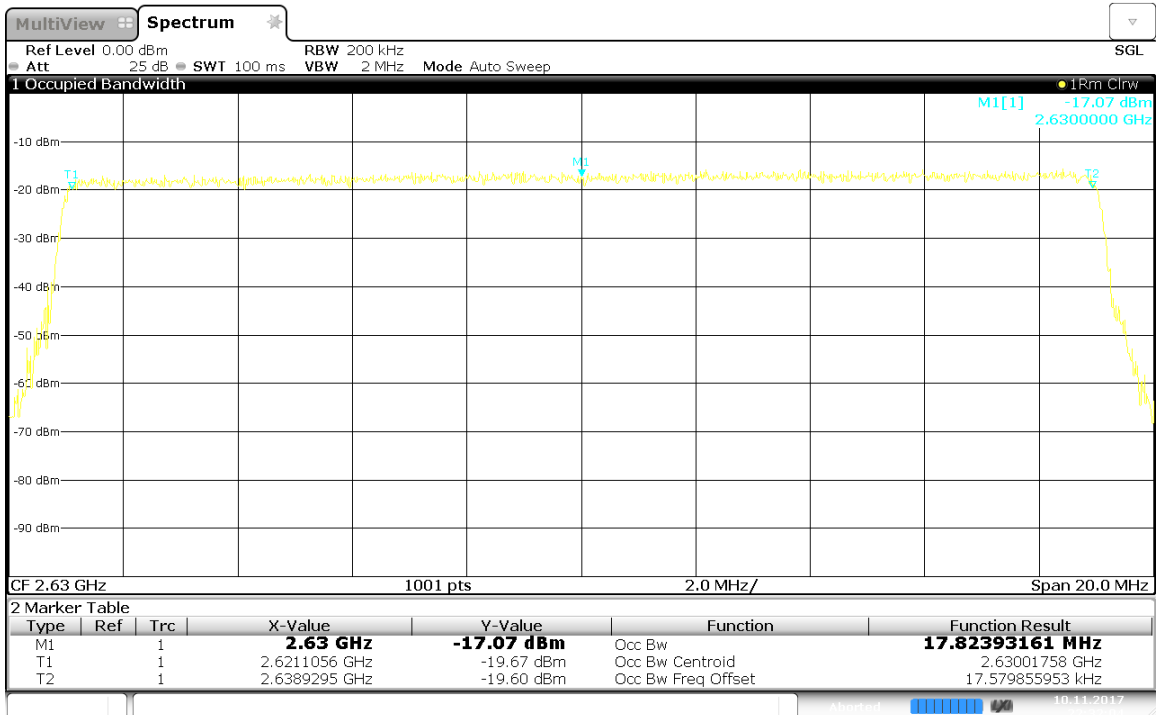
22:31:26 10.11.2017



22:31:39 10.11.2017

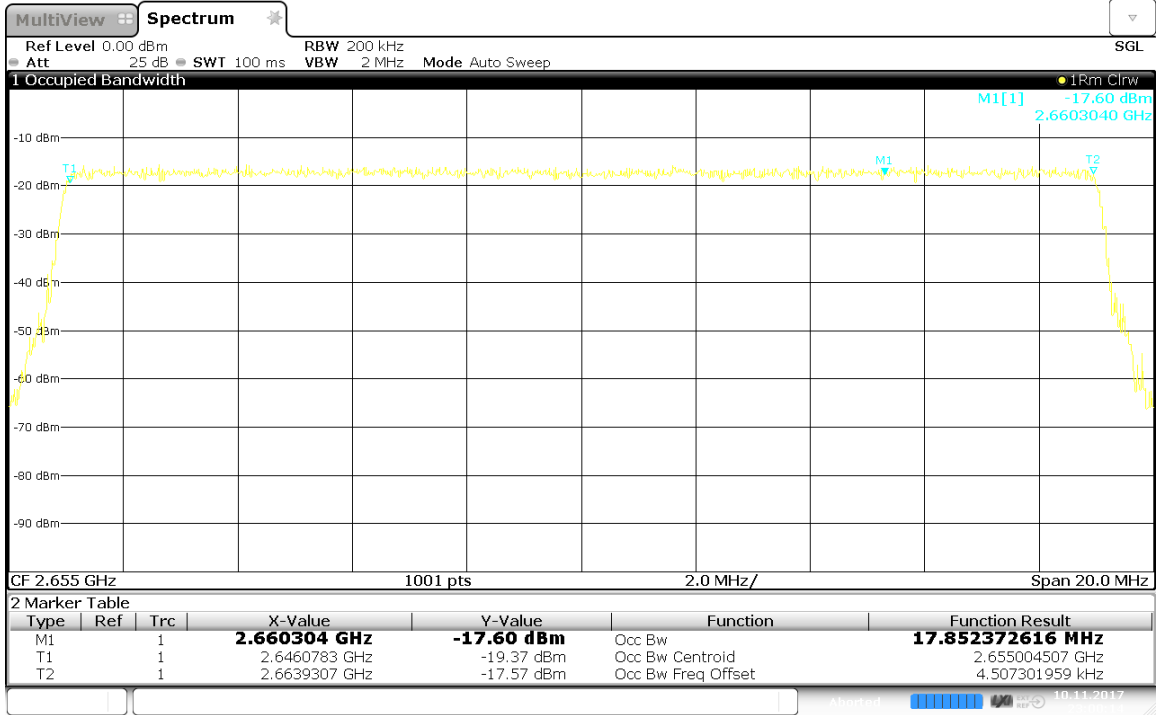


22:31:51 10.11.2017

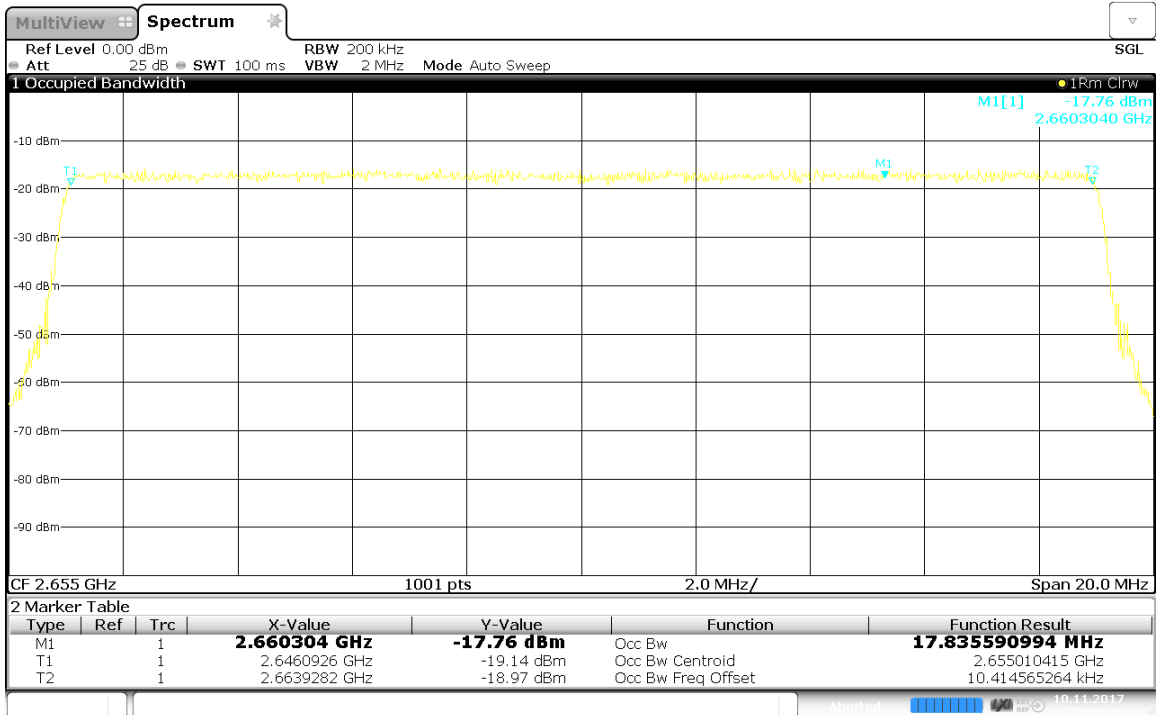


22:32:04 10.11.2017

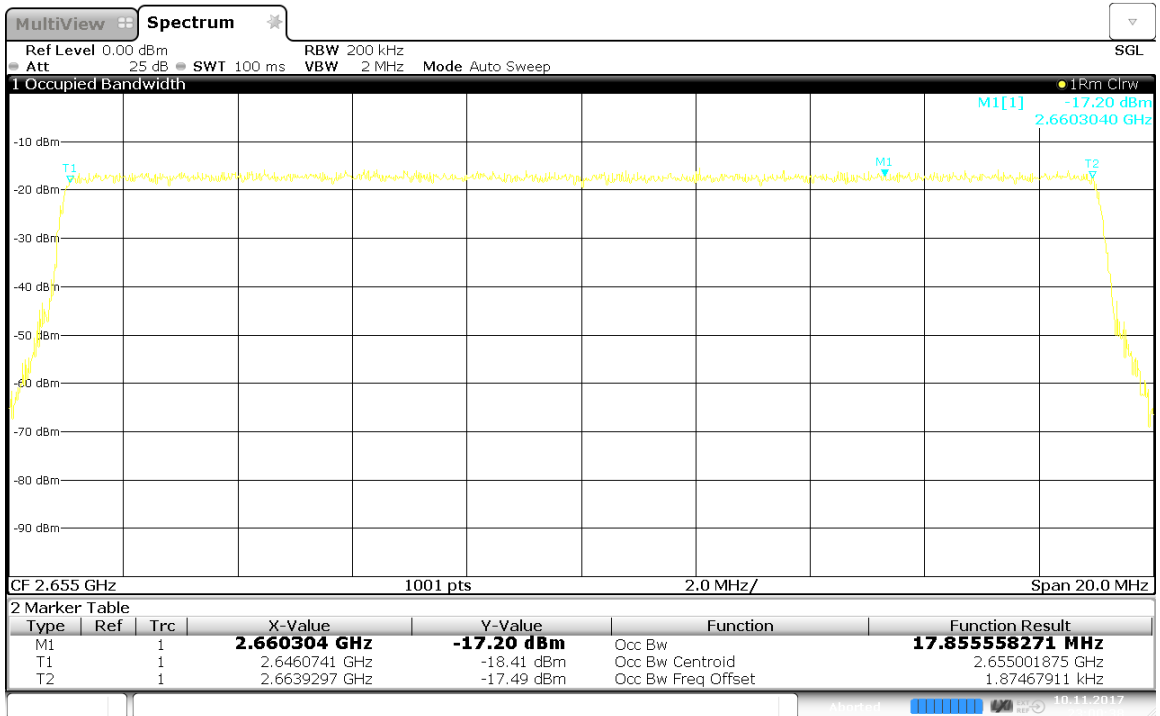
20M -2655MHz-Port 1~4:



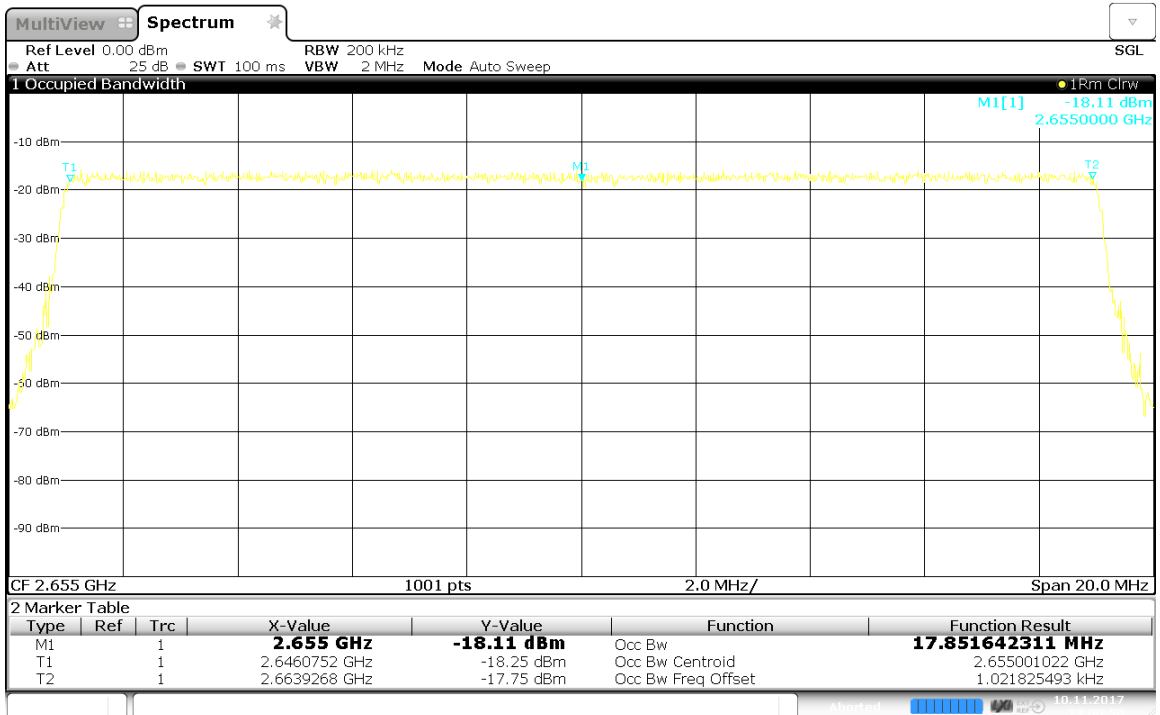
23:00:14 10.11.2017



23:00:26 10.11.2017

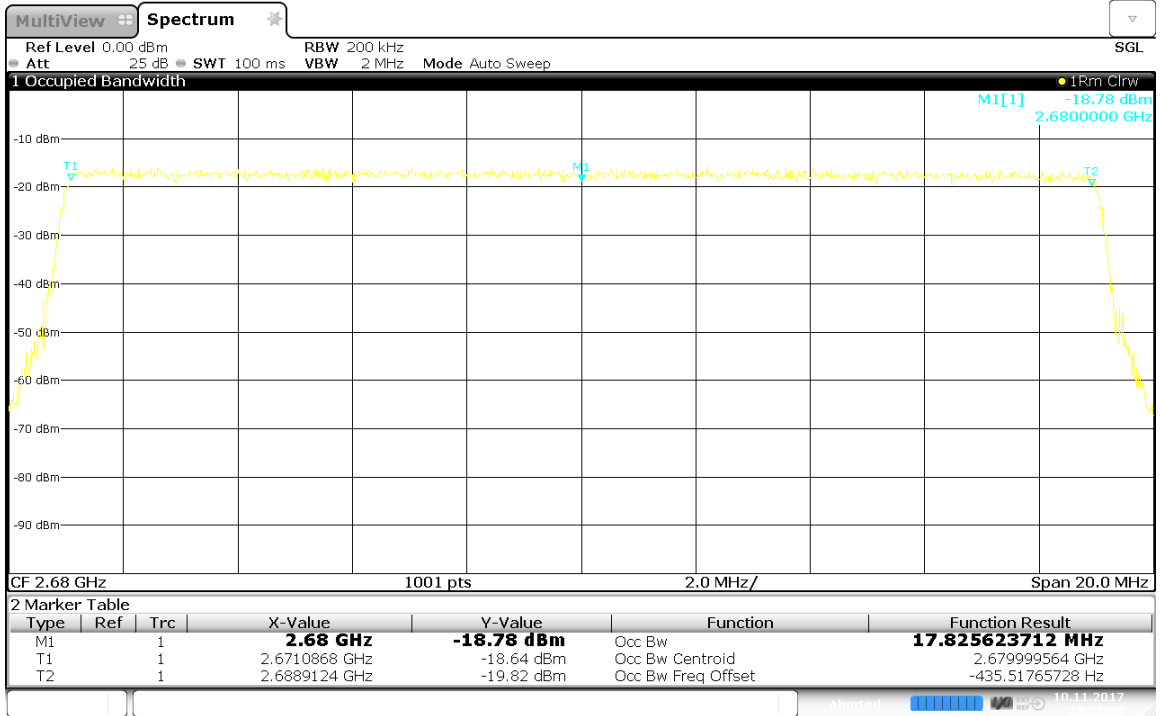
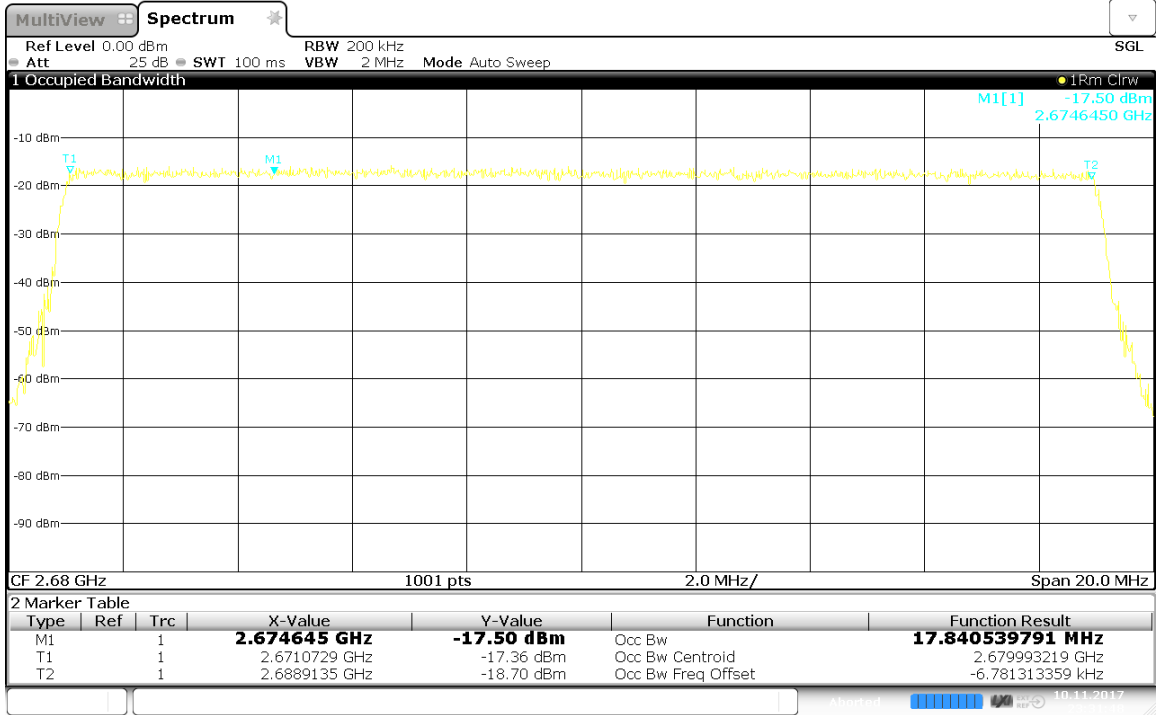


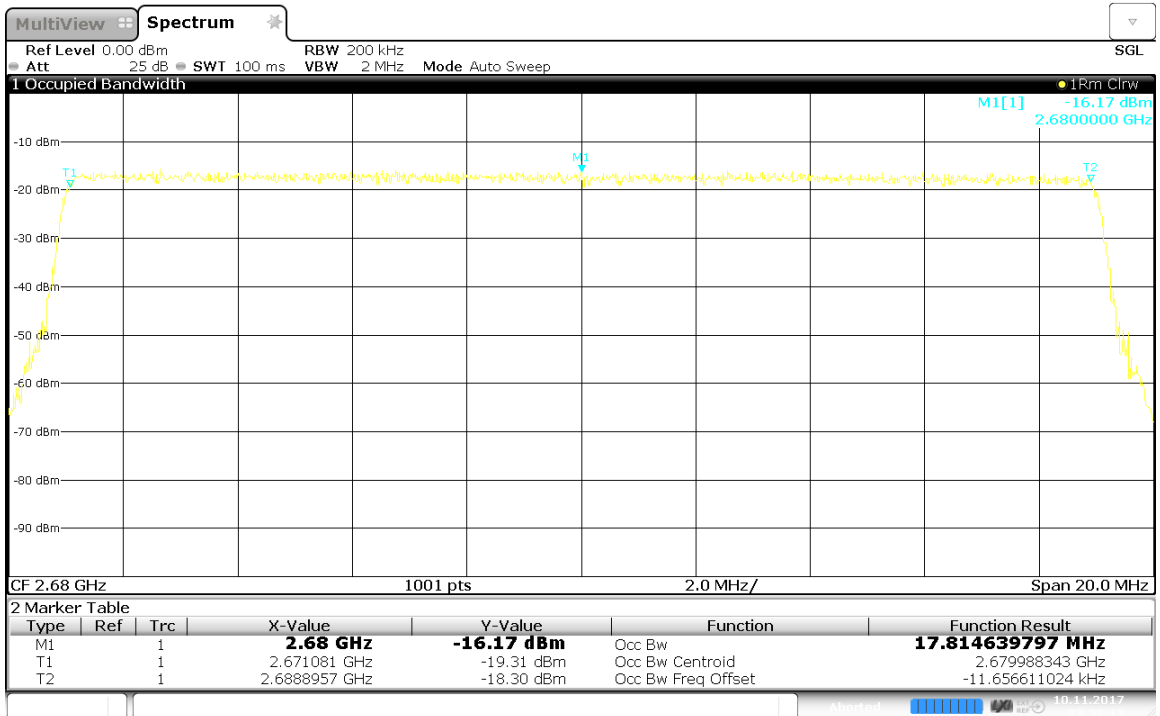
23:00:39 10.11.2017



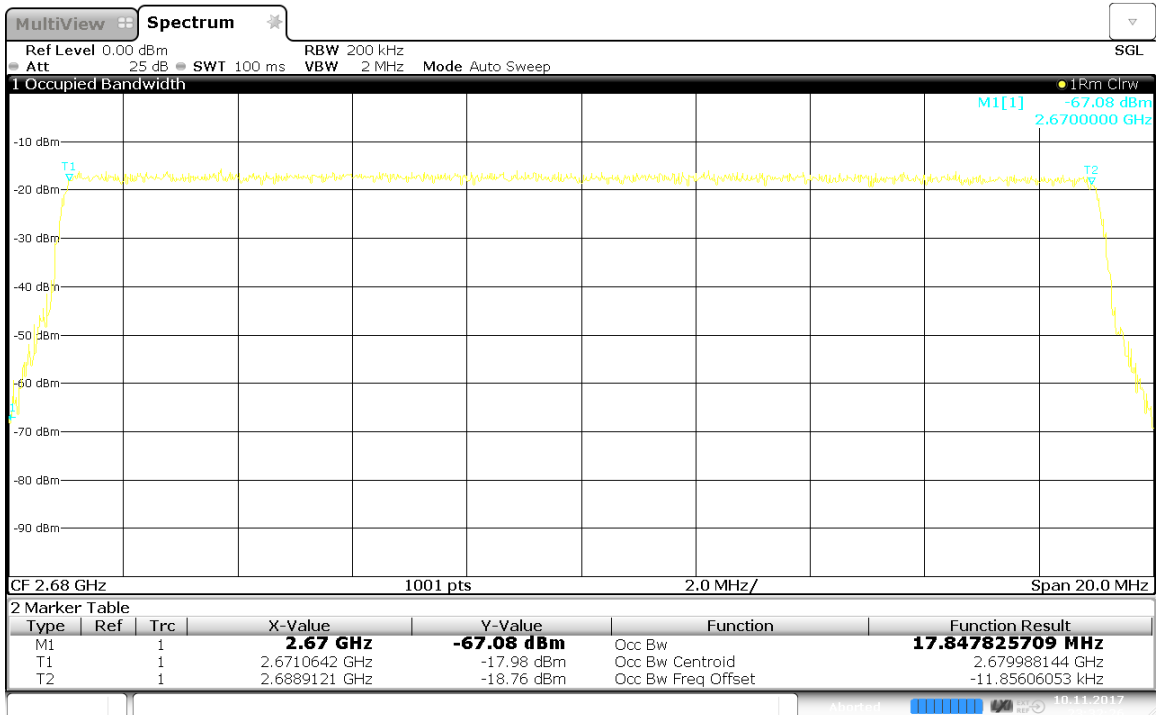
23:00:51 10.11.2017

20M -2680MHz-Port 1~4:





23:32:13 10.11.2017



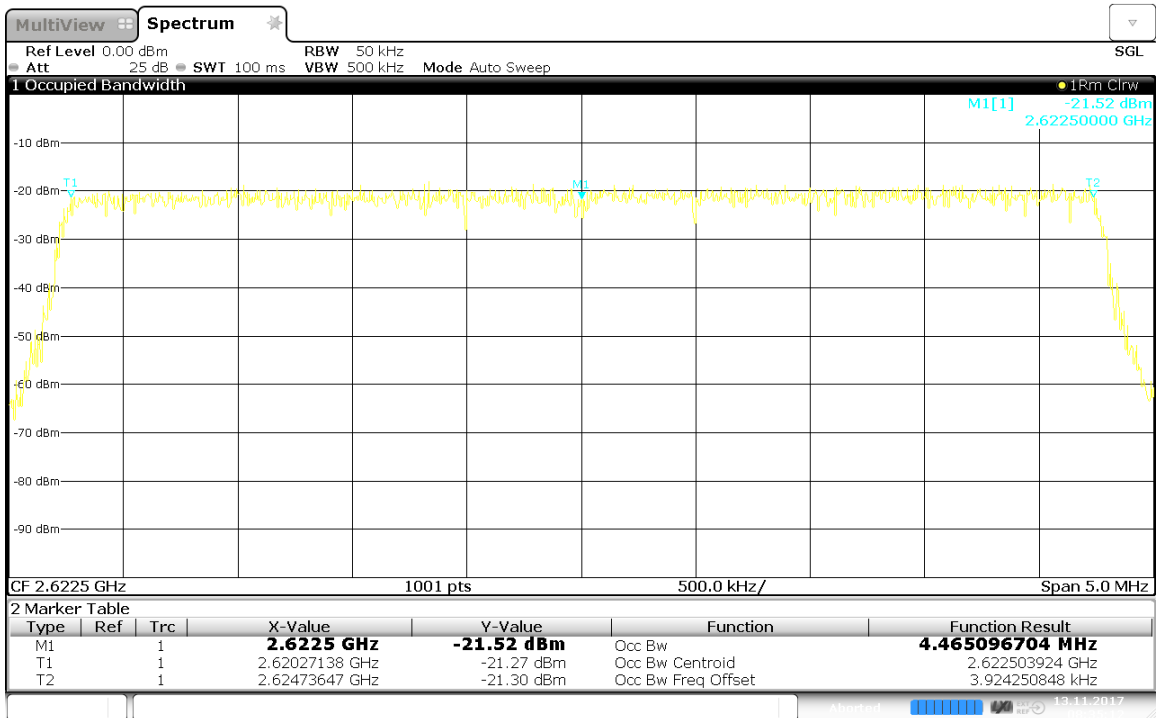
23:32:26 10.11.2017

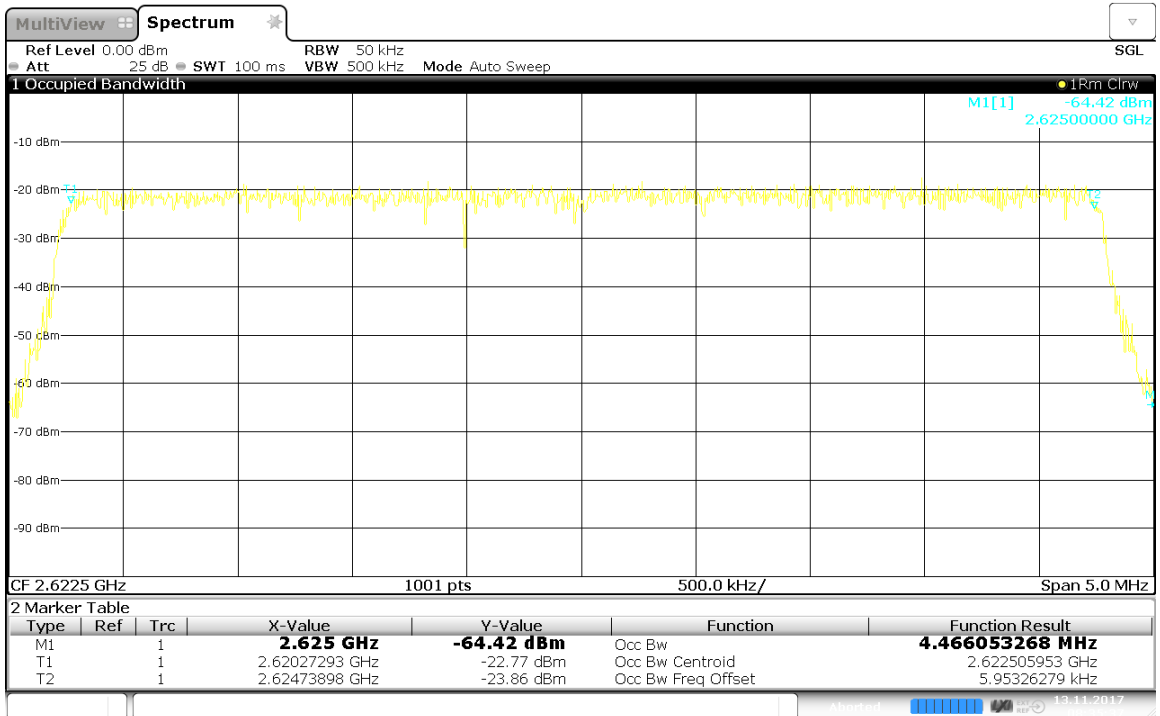
Double Carrier:

Channel Bandwidth :5M+5M(2622.5MHz & 2657.5MHz)

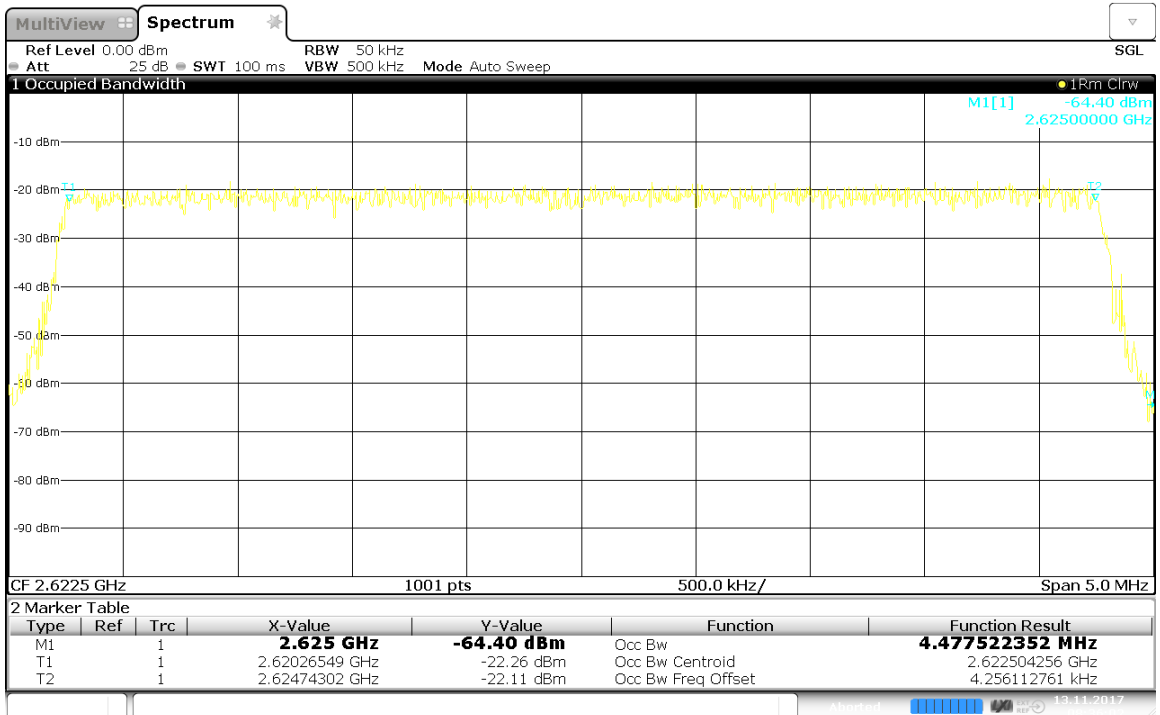
Port	Carry1 Center Freq. (MHz)	Carry1 99% Power Bandwidth (MHz)	Carry2 Center Freq. (MHz)	Carry2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2622.5	4.4651	2657.5	4.4786	5
2		4.4661		4.4797	5
3		4.4775		4.4787	5
4		4.4704		4.4774	5

5M -2622.5MHz-Port 1~4:

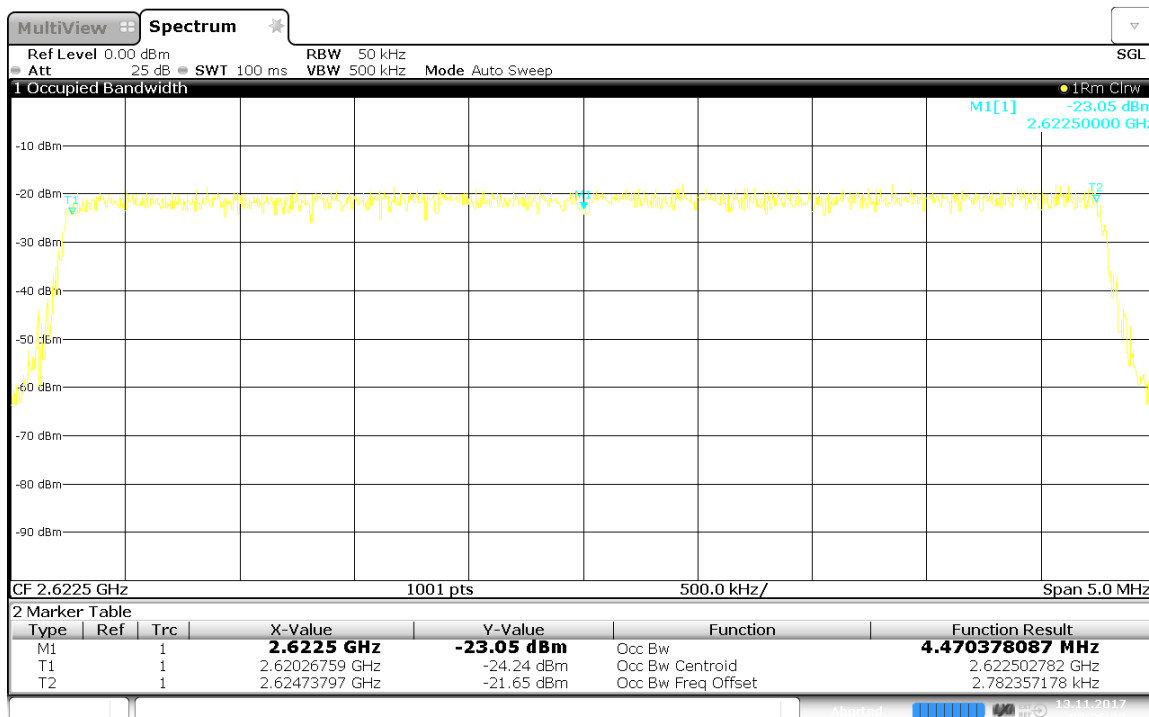




08:35:37 13.11.2017

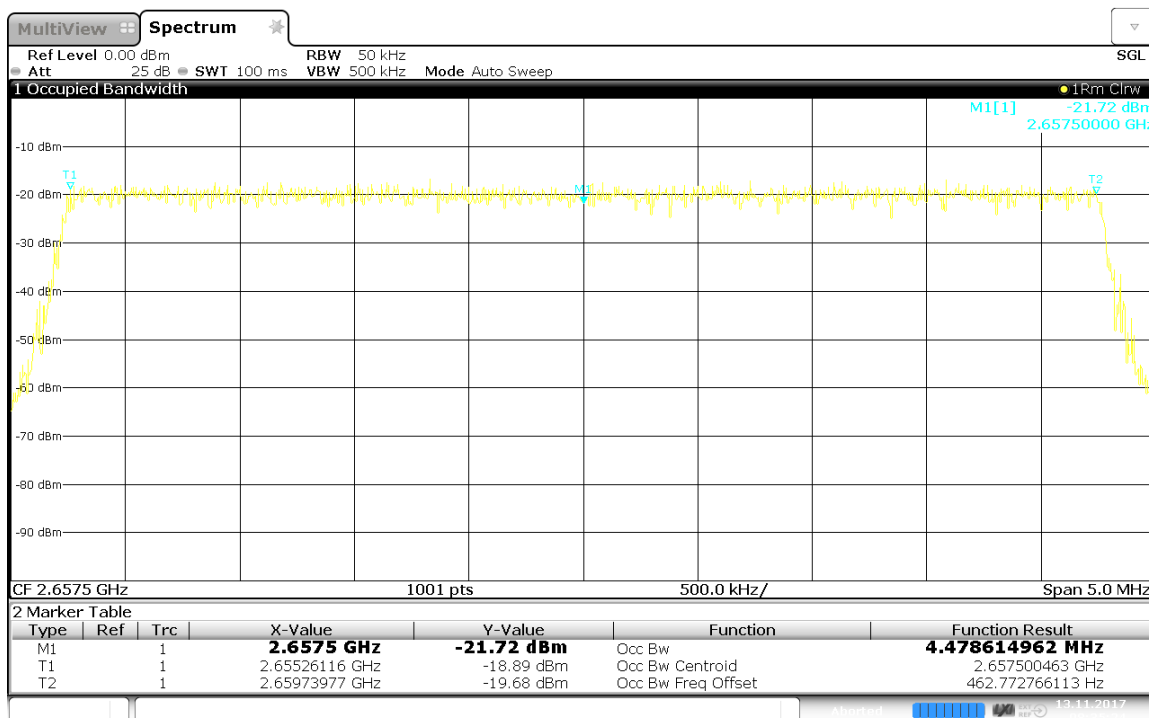


08:36:02 13.11.2017

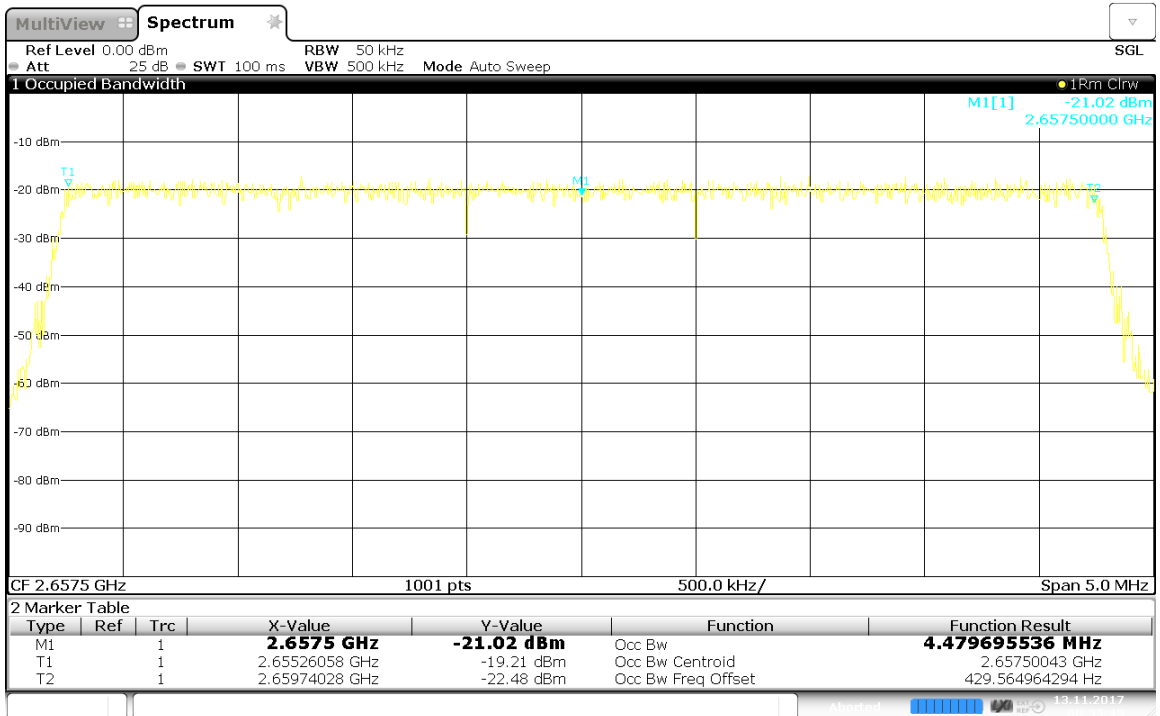


08:36:27 13.11.2017

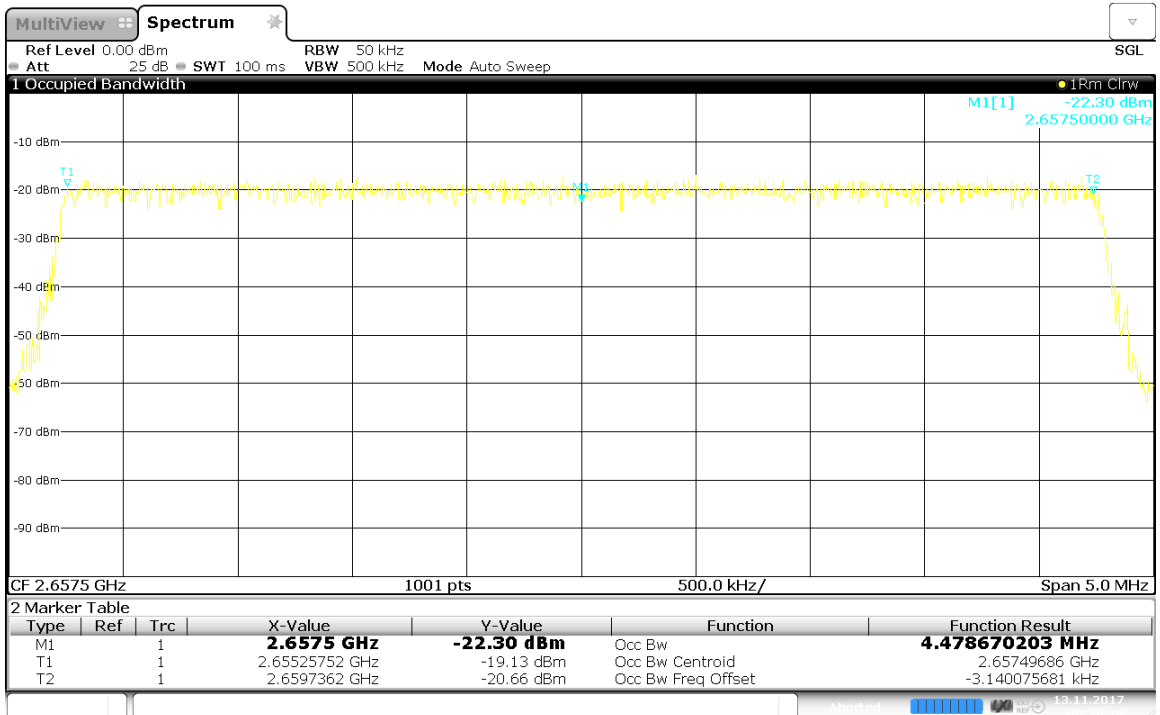
5M -2657.5MHz-Port 1~4:



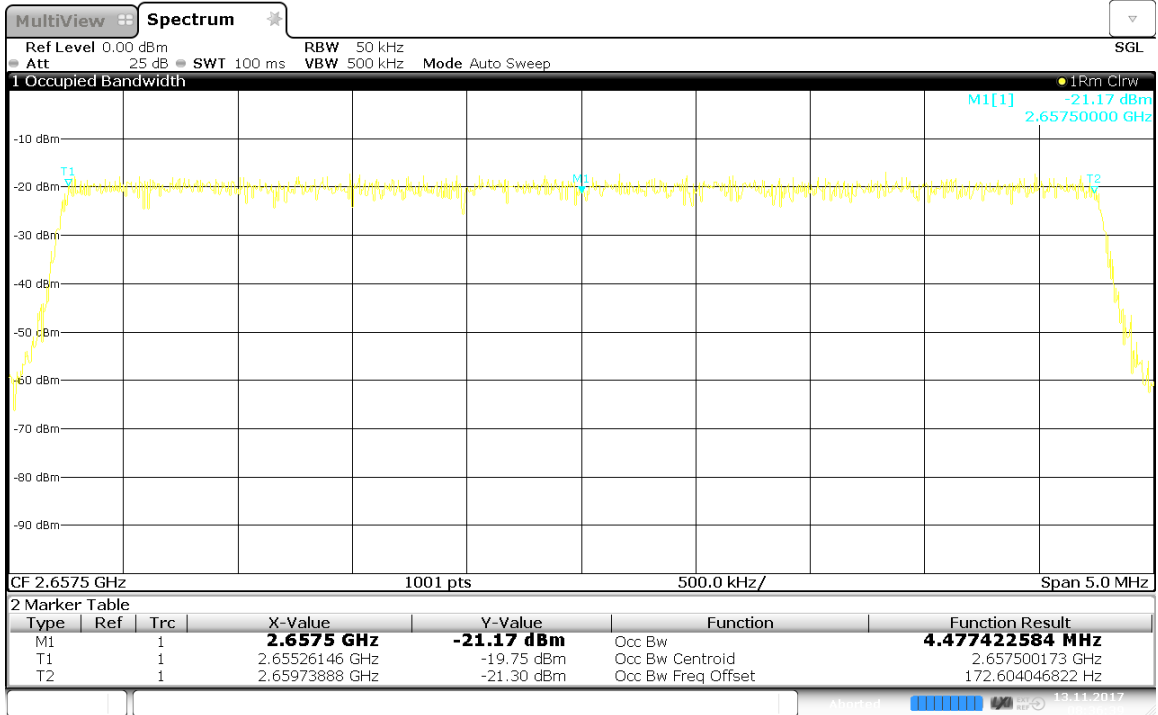
08:35:25 13.11.2017



08:35:50 13.11.2017



08:36:15 13.11.2017

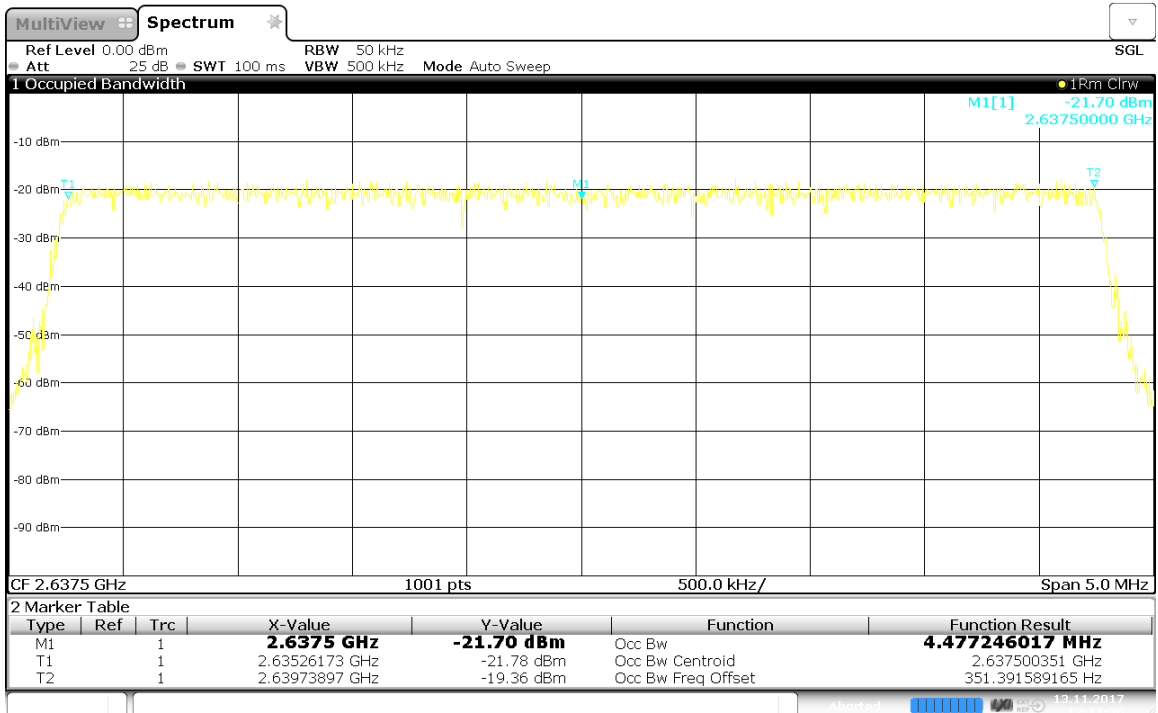


08:36:40 13.11.2017

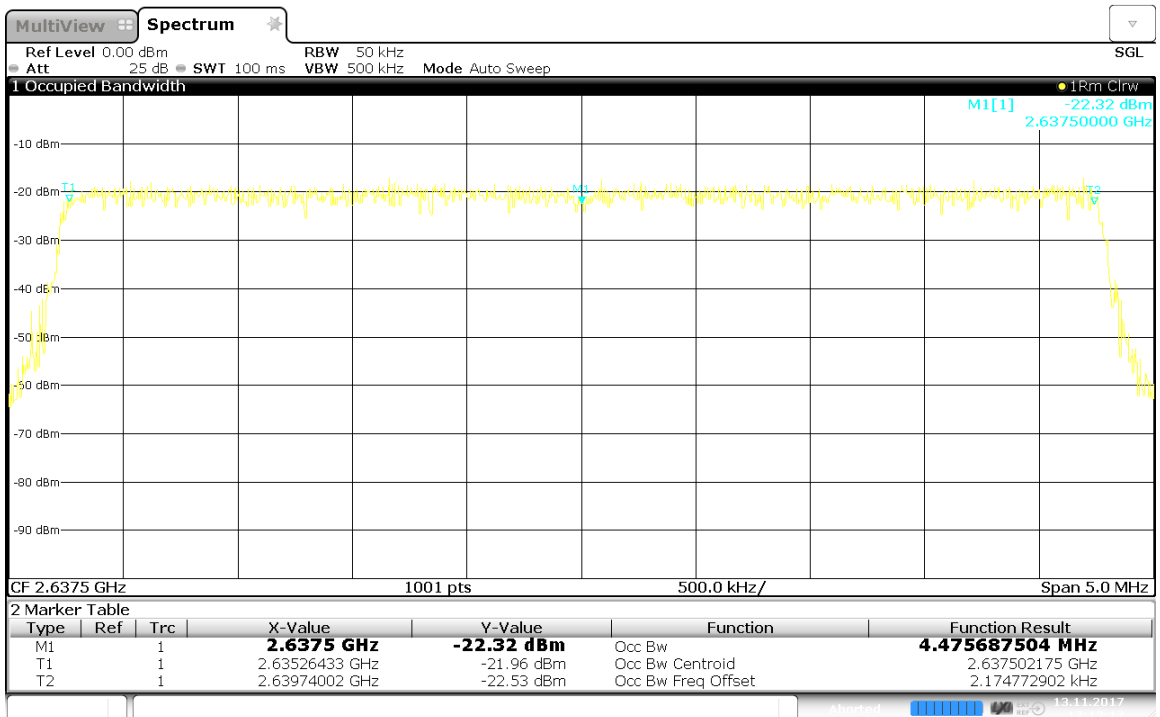
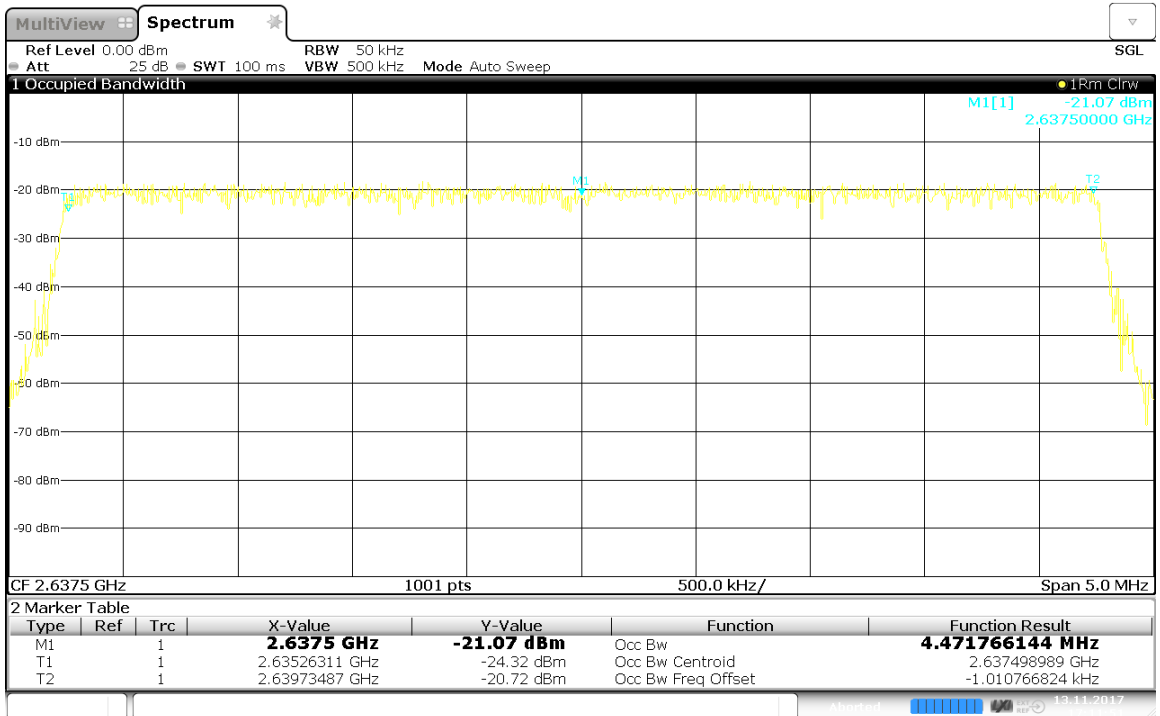
Channel Bandwidth :5M+5M(2637.5MHz & 2672.5MHz)

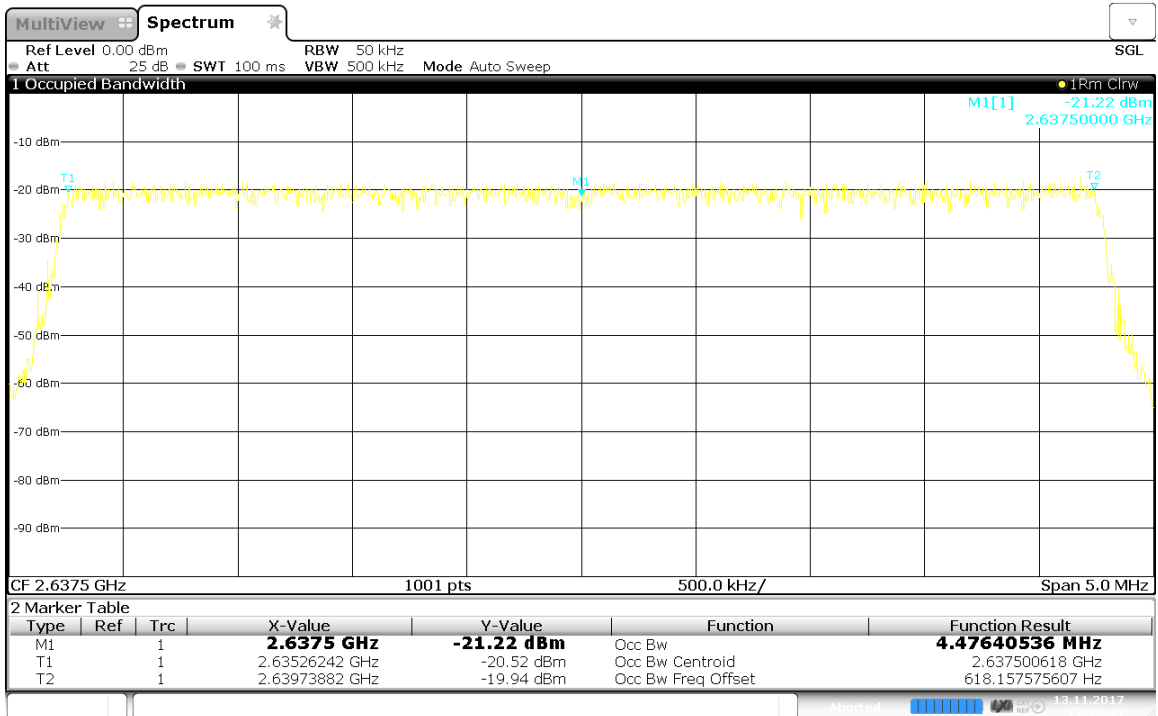
Port	Carry1 Center Freq. (MHz)	Carry1 99% Power Bandwidth (MHz)	Carry2 Center Freq. (MHz)	Carry2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2637.5	4.477	2672.5	4.481	5
2		4.471		4.479	5
3		4.475		4.475	5
4		4.476		4.475	5

5M -2637.5MHz-Port 1~4:



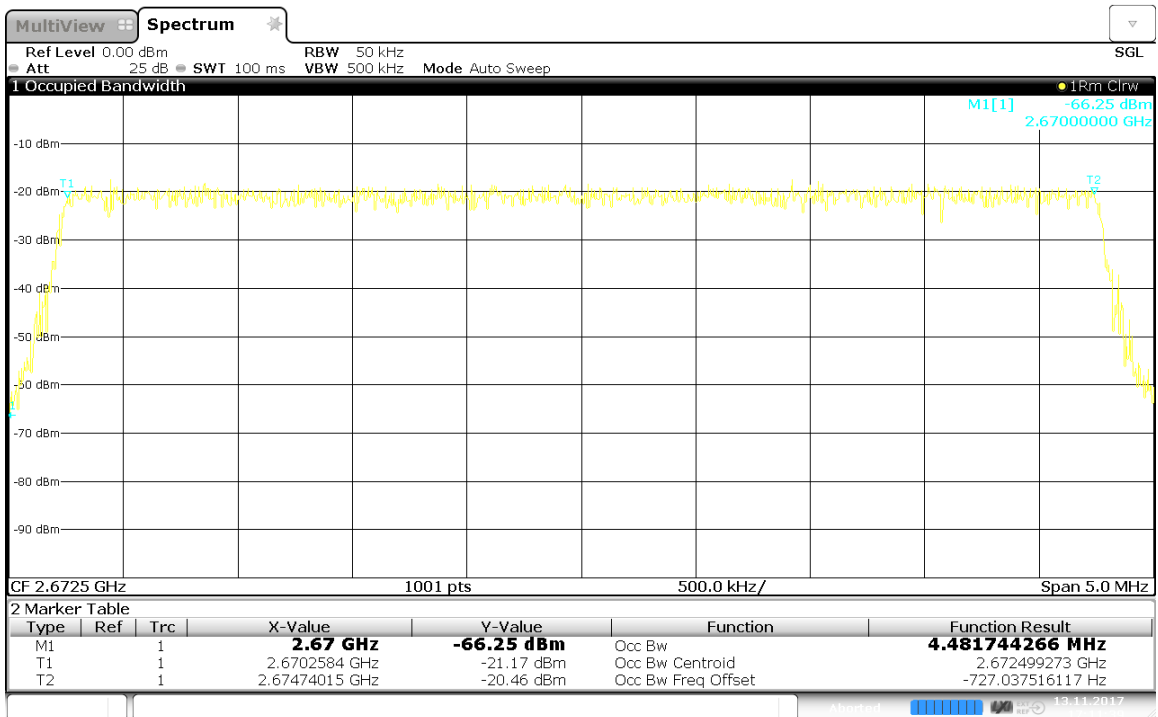
17:11:27 13.11.2017



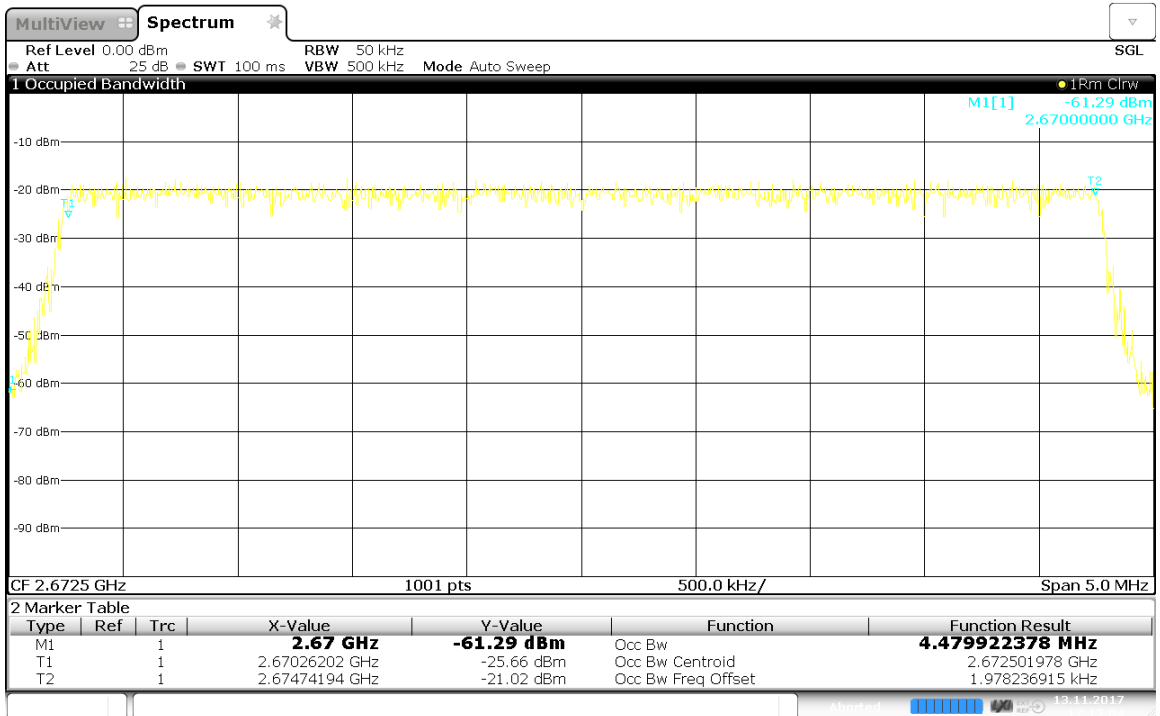


17:12:42 13.11.2017

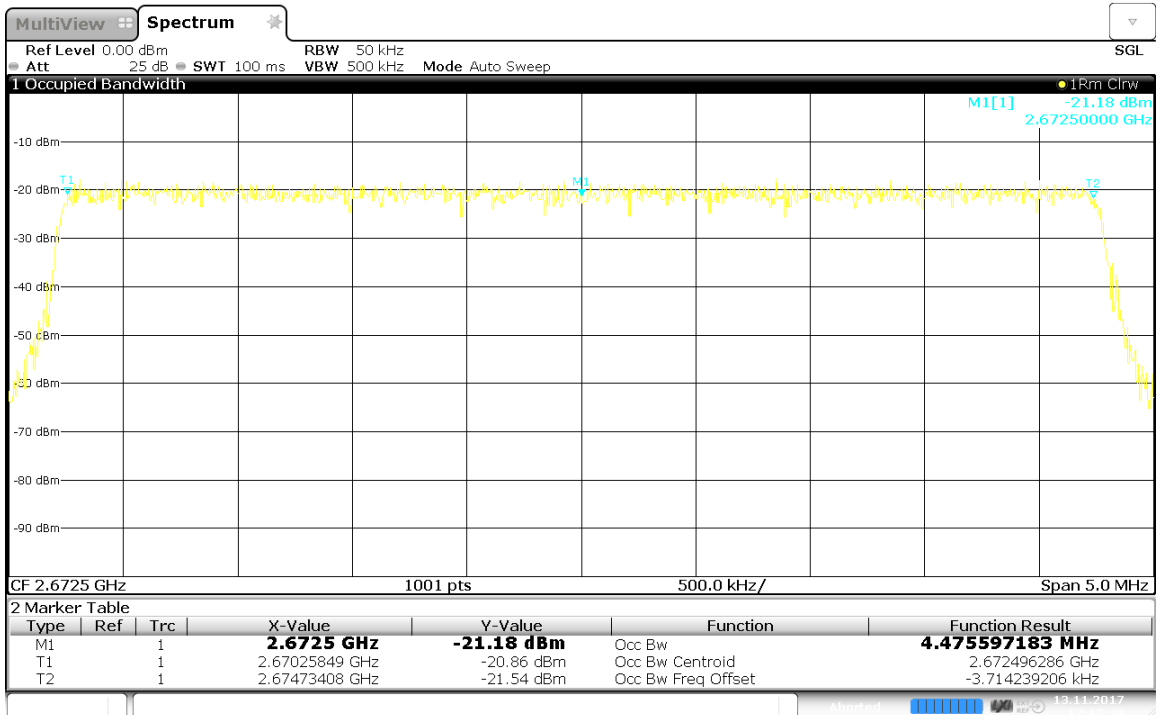
5M -2672.5MHz-Port 1~4:



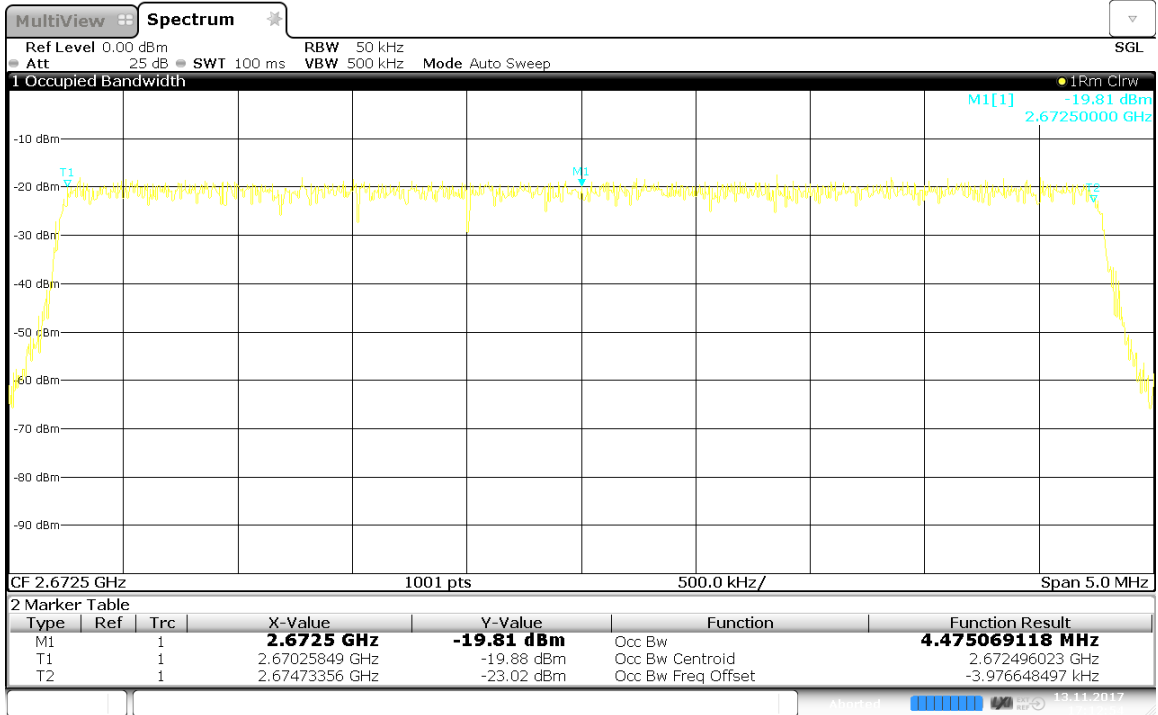
17:11:39 13.11.2017



17:12:04 13.11.2017



17:12:29 13.11.2017

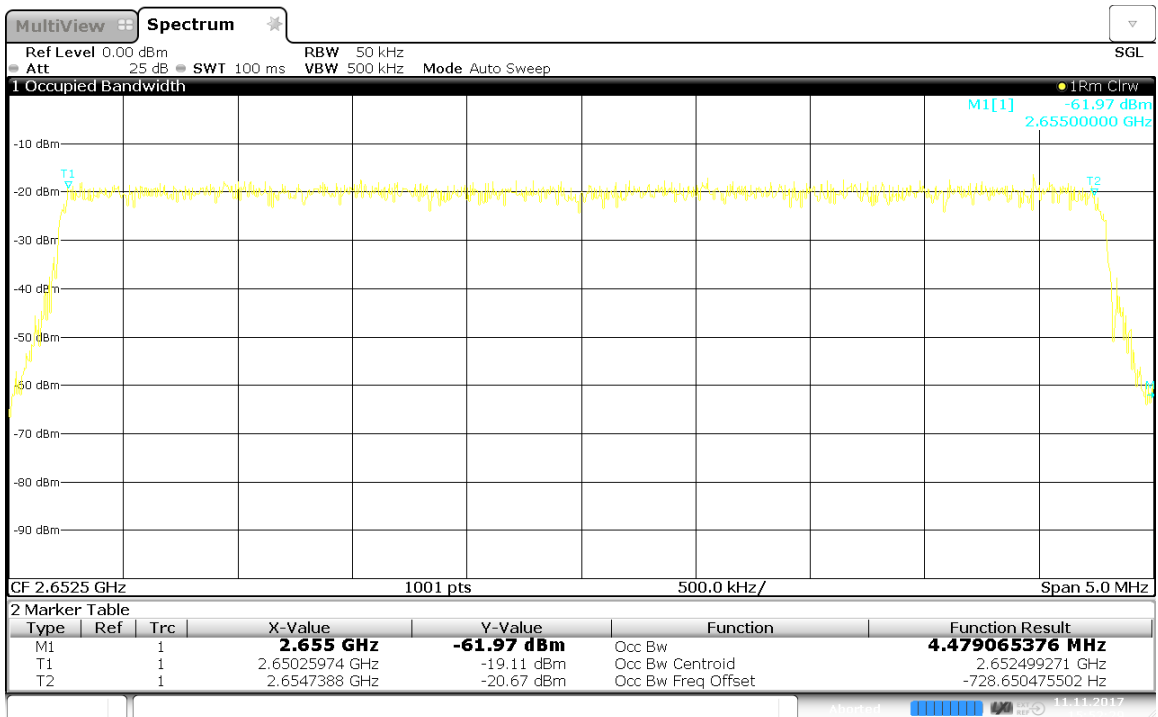


17:12:54 13.11.2017

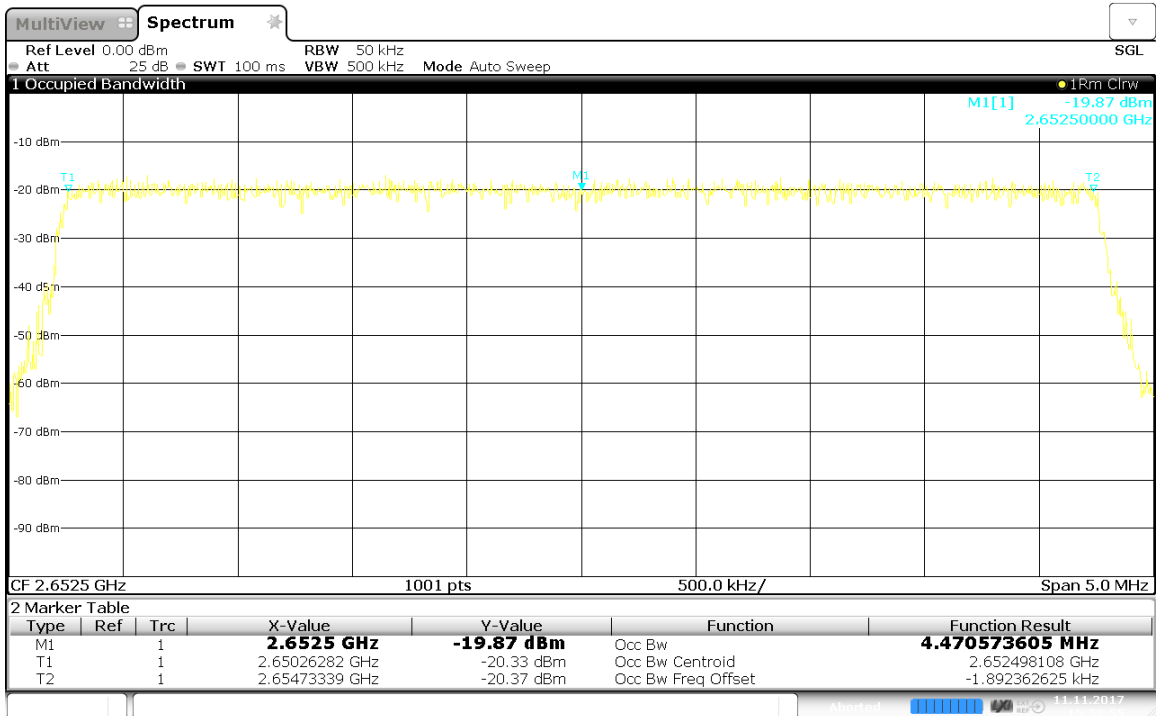
Channel Bandwidth :5M+5M(2652.5MHz & 2687.5MHz)

Port	Carry1 Center Freq. (MHz)	Carry1 99% Power Bandwidth (MHz)	Carry2 Center Freq. (MHz)	Carry2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2652.5	4.4791	2687.5	4.4766	5
2		4.4706		4.479	5
3		4.475		4.4792	5
4		4.4805		4.4775	5

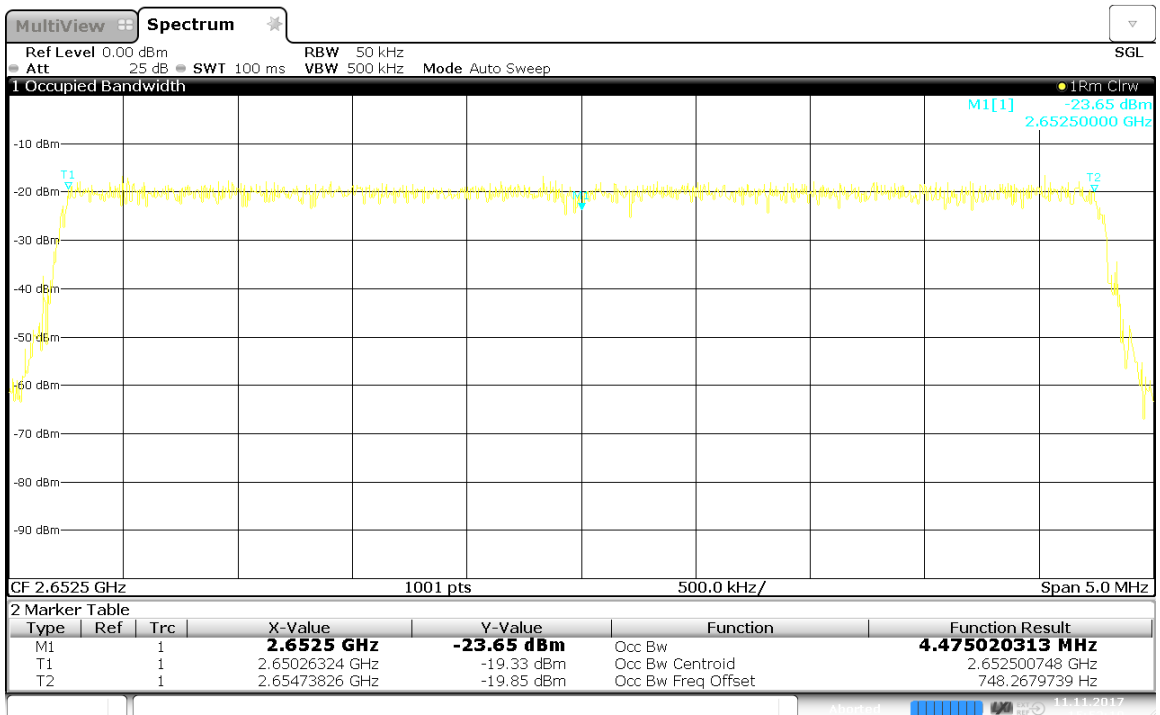
5M -2652.5MHz-Port 1~4:



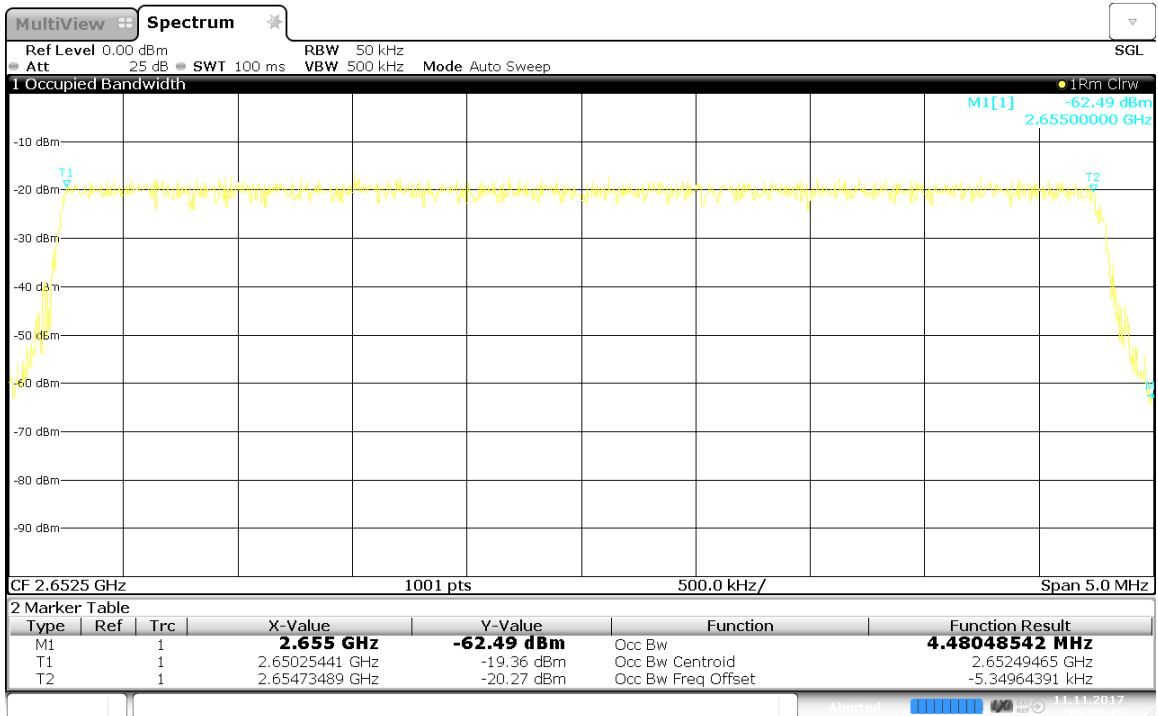
15:52:30 11.11.2017



15:52:55 11.11.2017

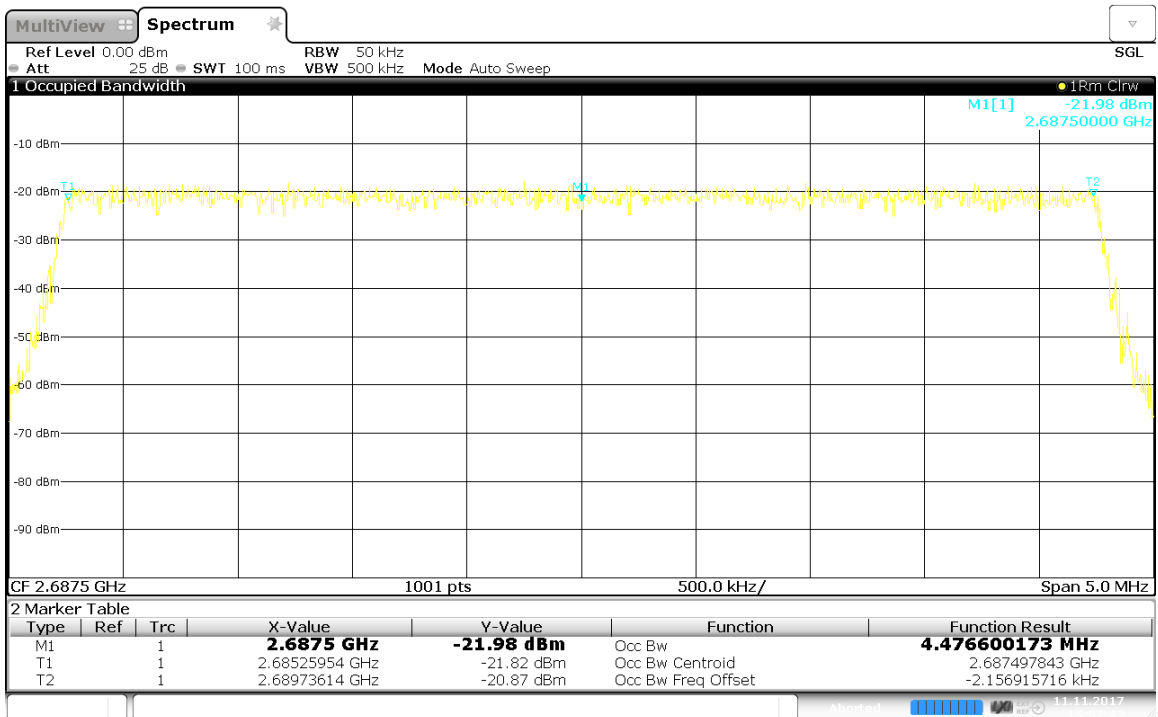


15:53:20 11.11.2017

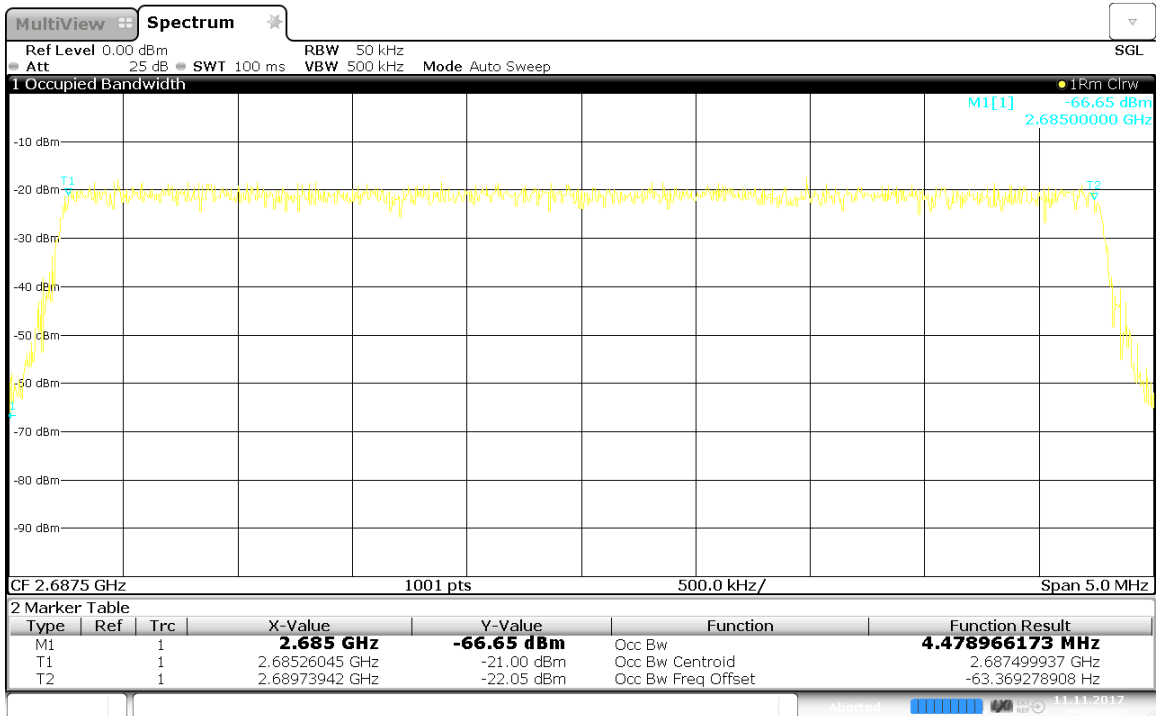


15:53:45 11.11.2017

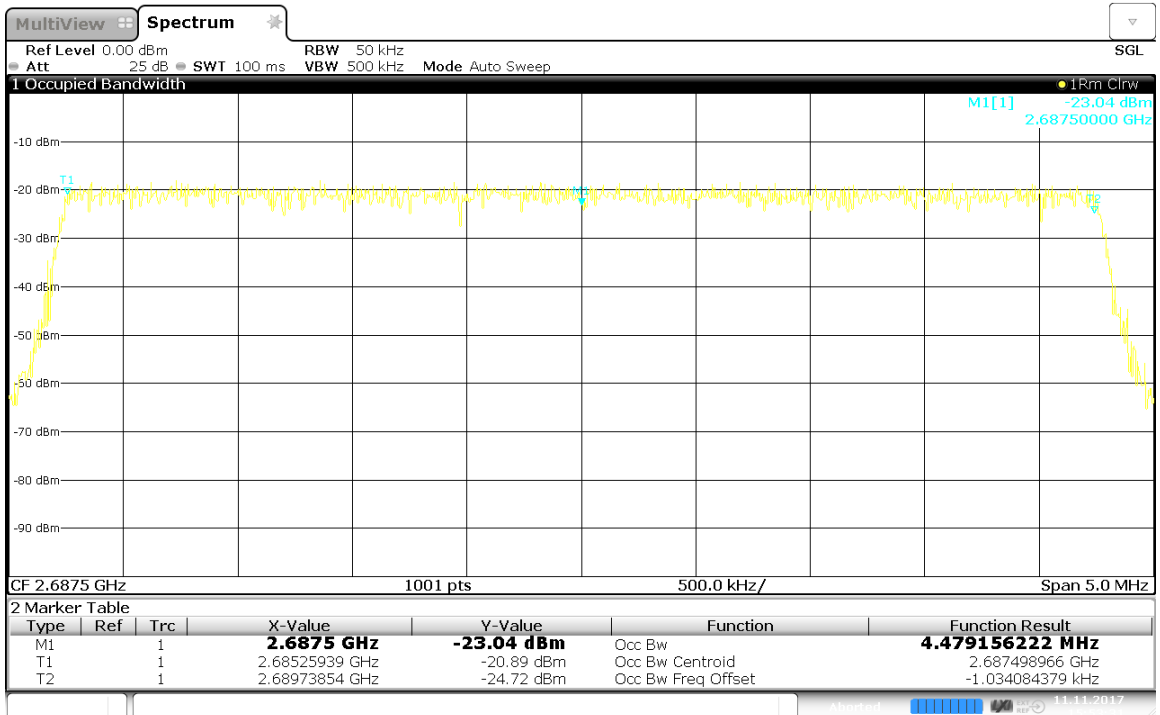
5M -2687.5MHz-Port 1~4:



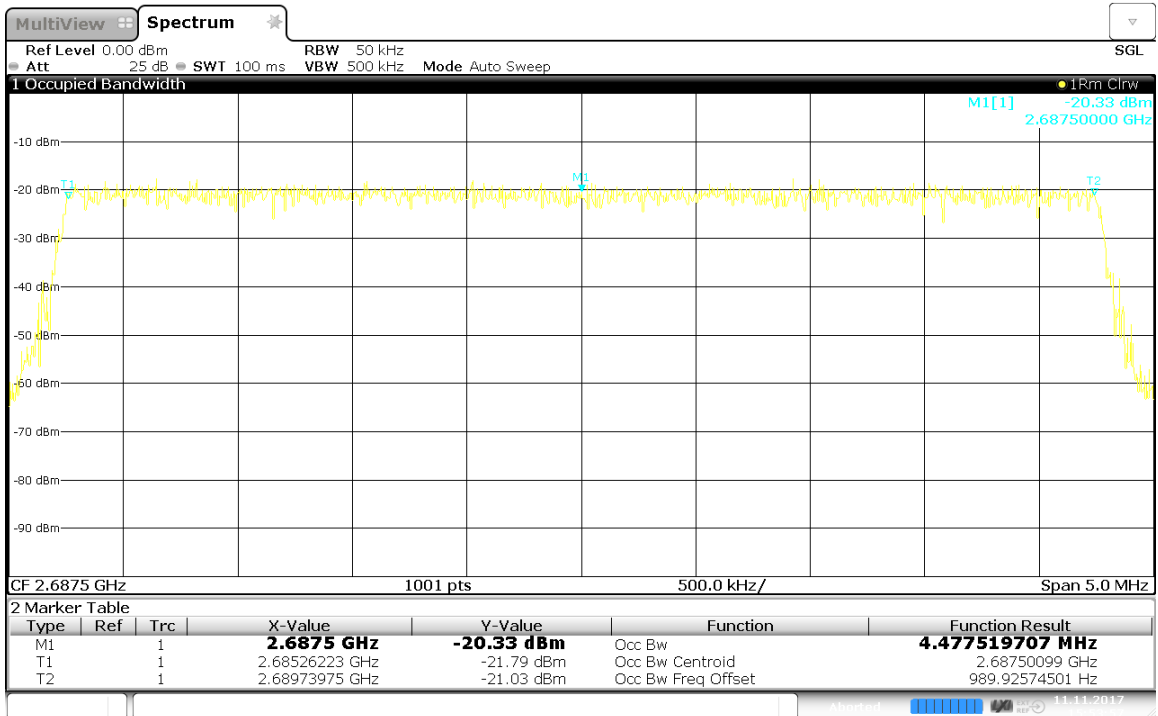
15:52:43 11.11.2017



15:53:07 11.11.2017



15:53:32 11.11.2017



15:53:57 11.11.2017

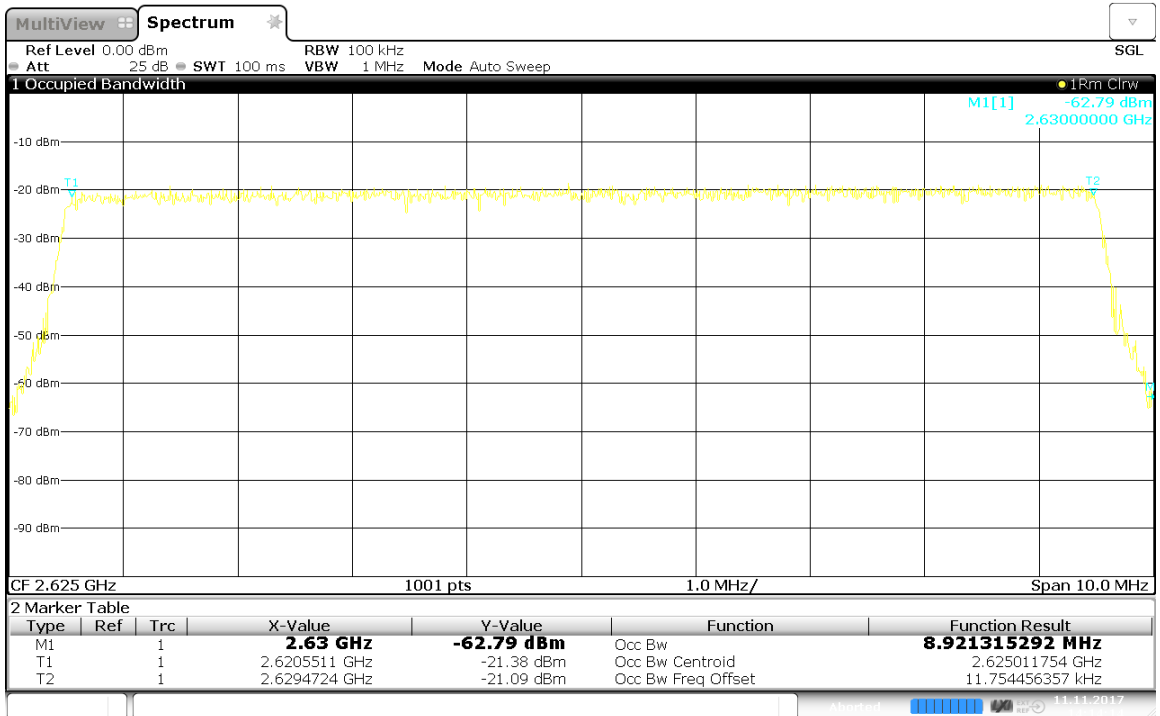
Channel Bandwidth :10M+10M(2625MHz & 2655MHz)

Port	Carry1 Center Freq. (MHz)	Carry1 99% Power Bandwidth (MHz)	Carry2 Center Freq. (MHz)	Carry2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2625	8.931	2655	8.942	10
2		8.9213		8.936	10
3		8.9289		8.933	10
4		8.9333		8.937	10

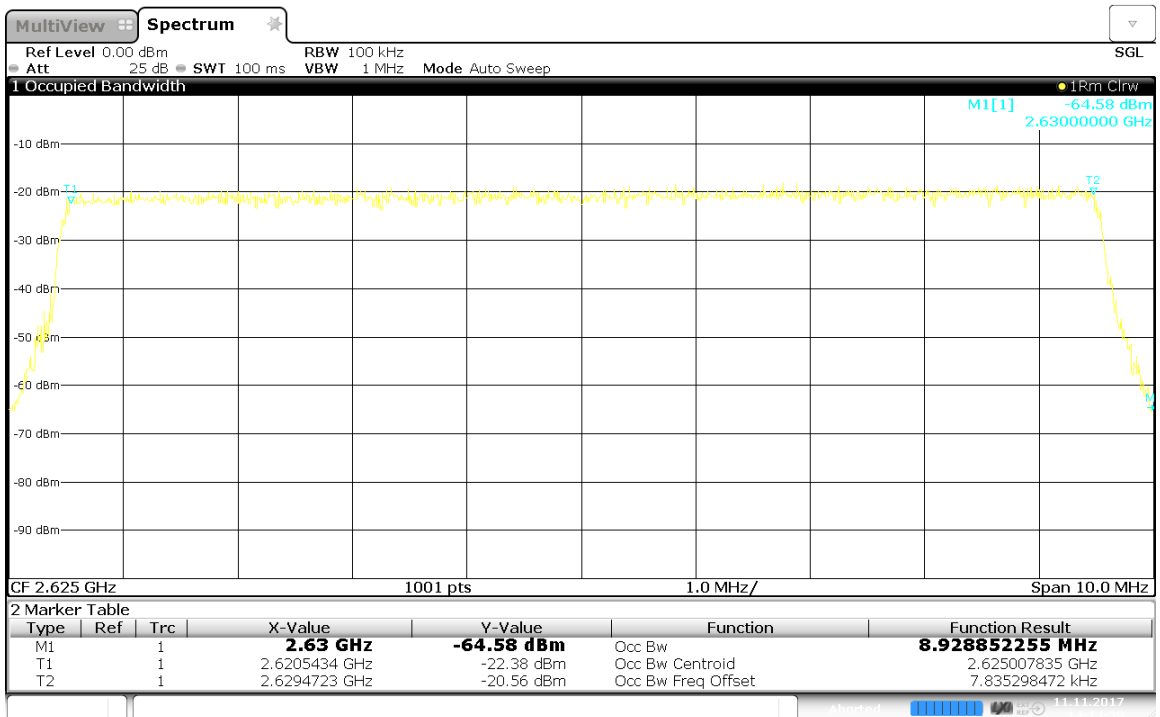
10M -2625MHz-Port 1~4:



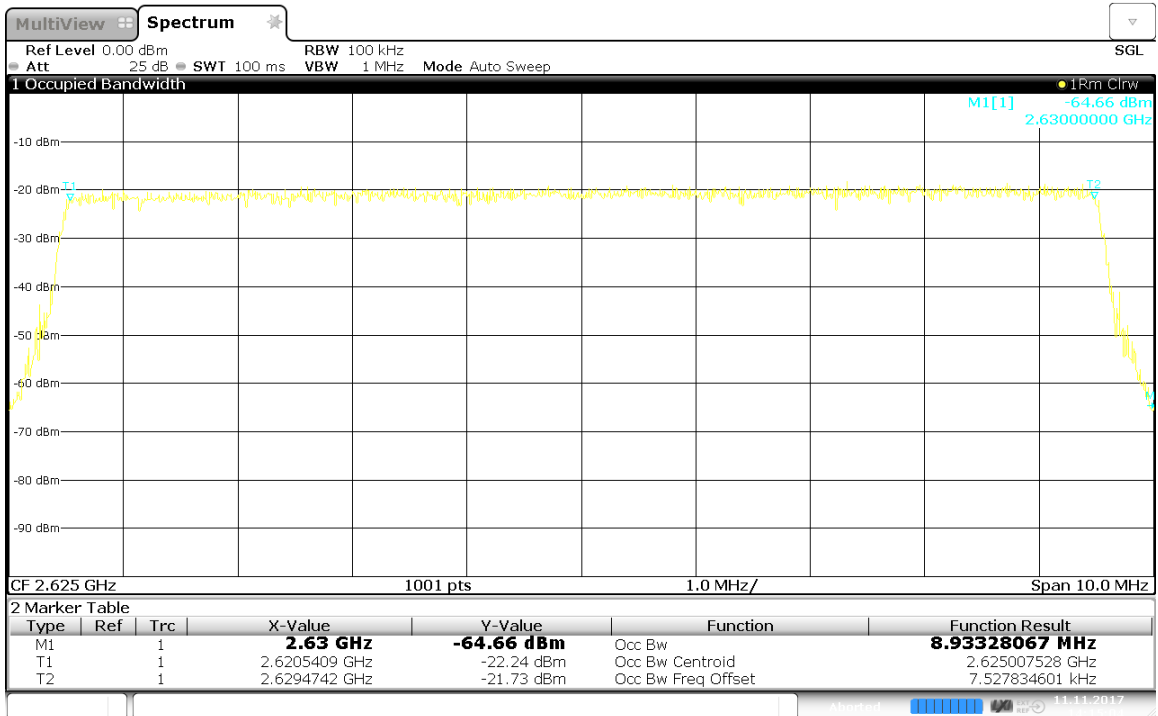
14:13:50 11.11.2017



14:14:15 11.11.2017

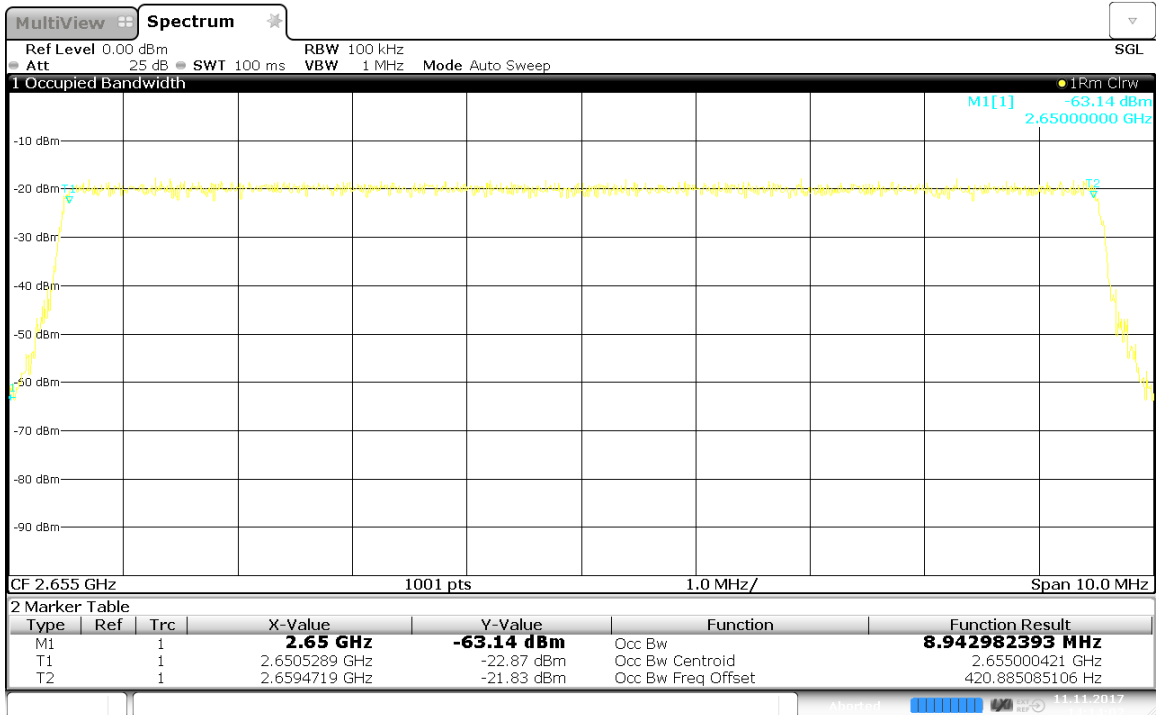


14:14:39 11.11.2017

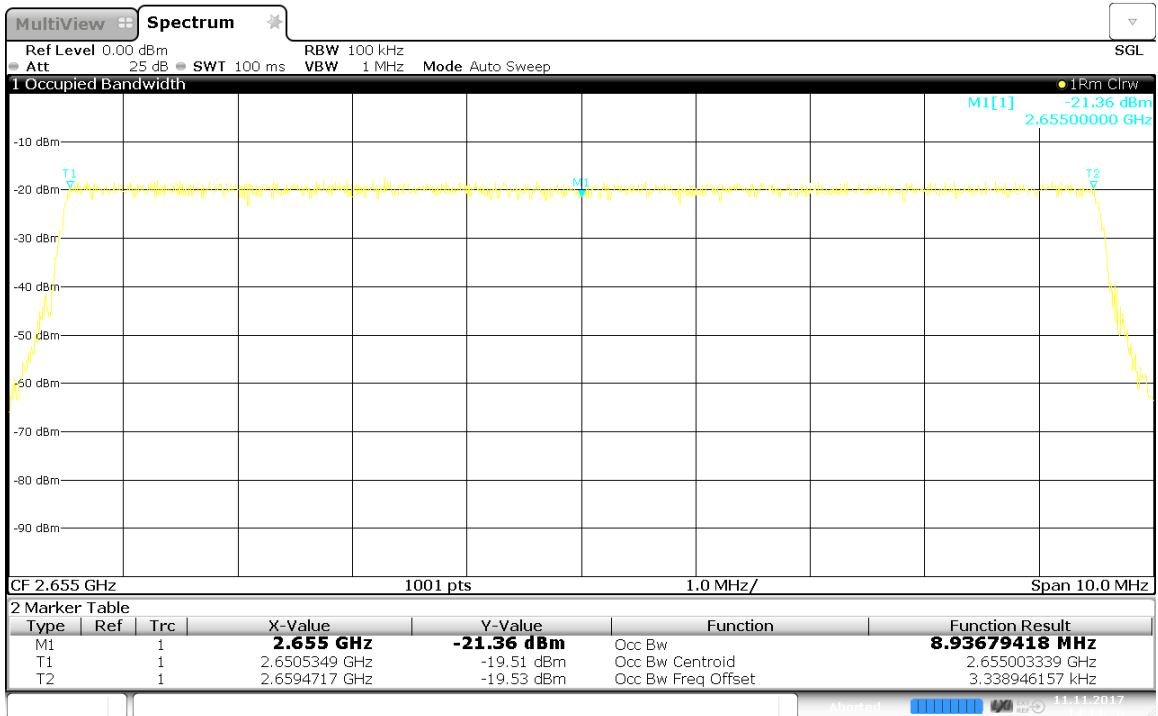


14:15:04 11.11.2017

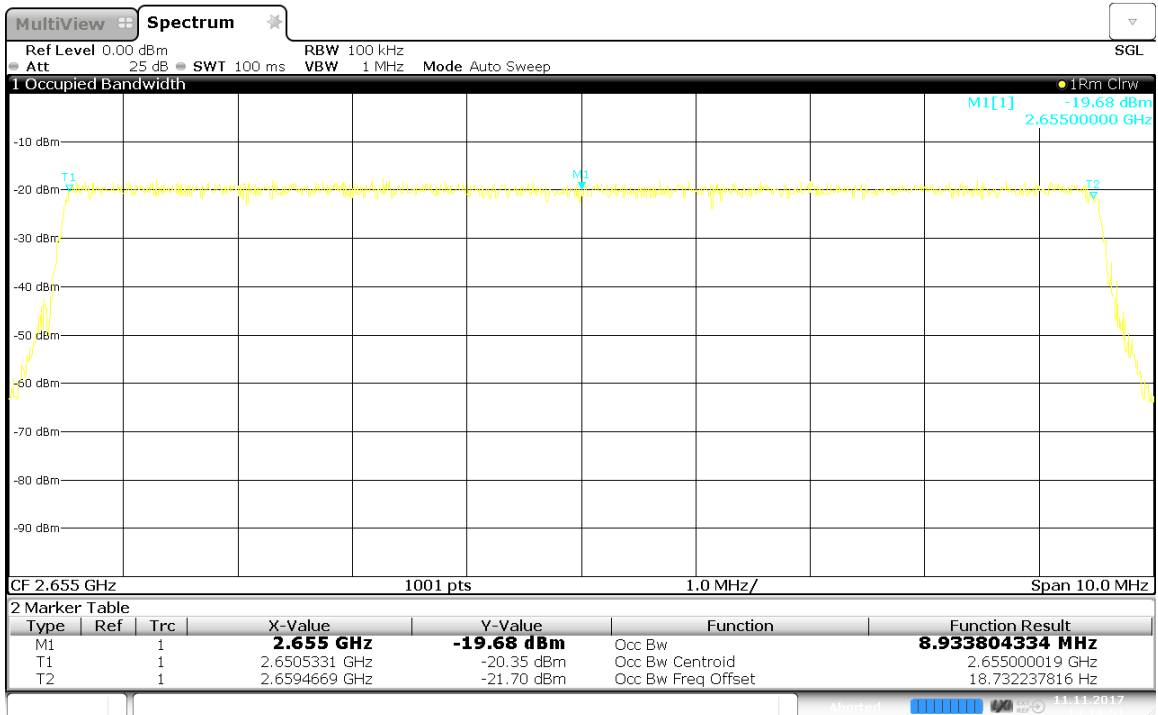
10M -2655MHz-Port 1~4:



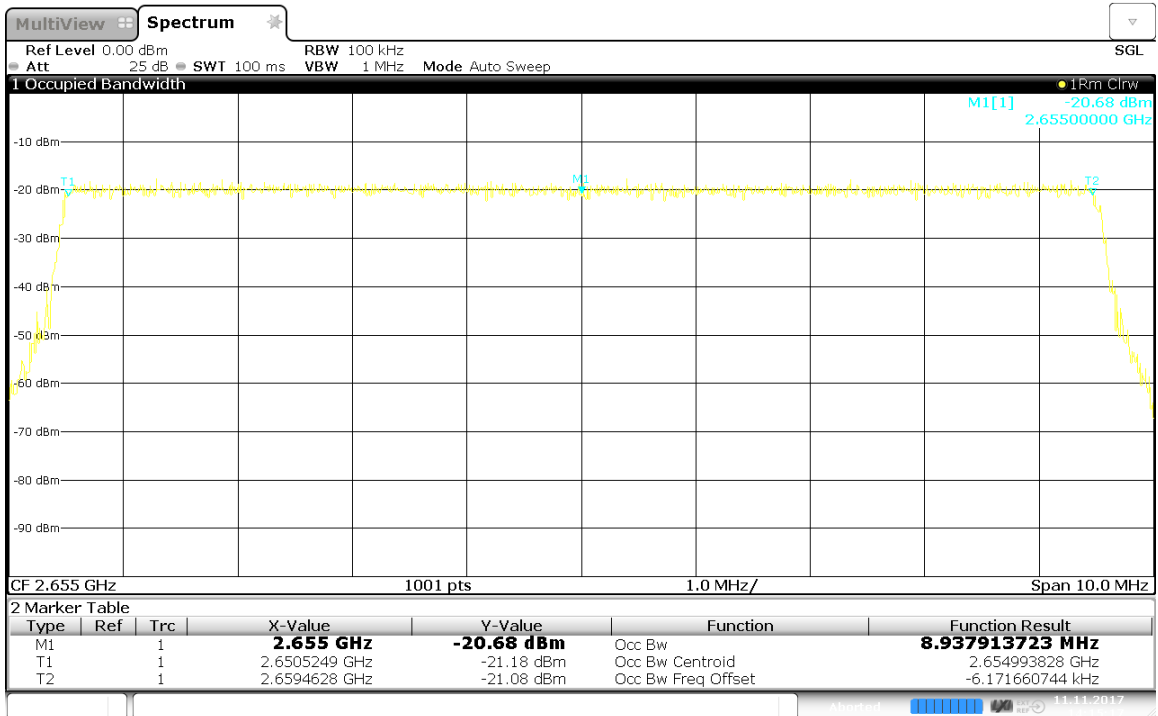
14:14:02 11.11.2017



14:14:27 11.11.2017



14:14:52 11.11.2017

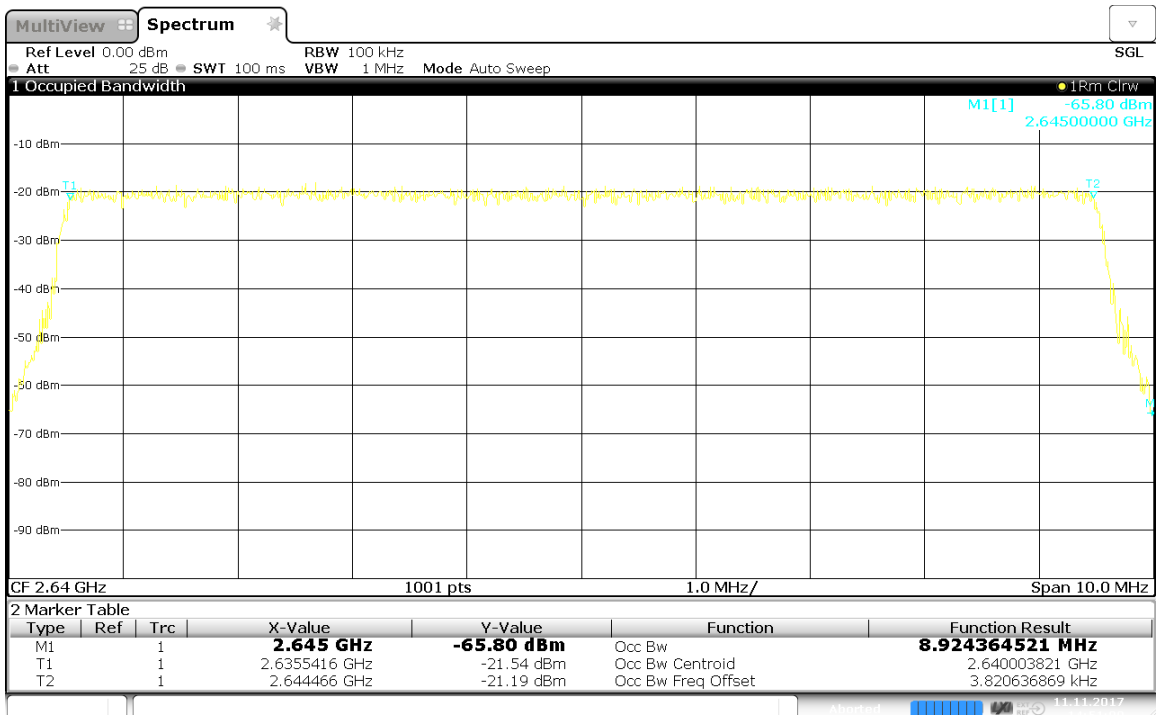


14:15:17 11.11.2017

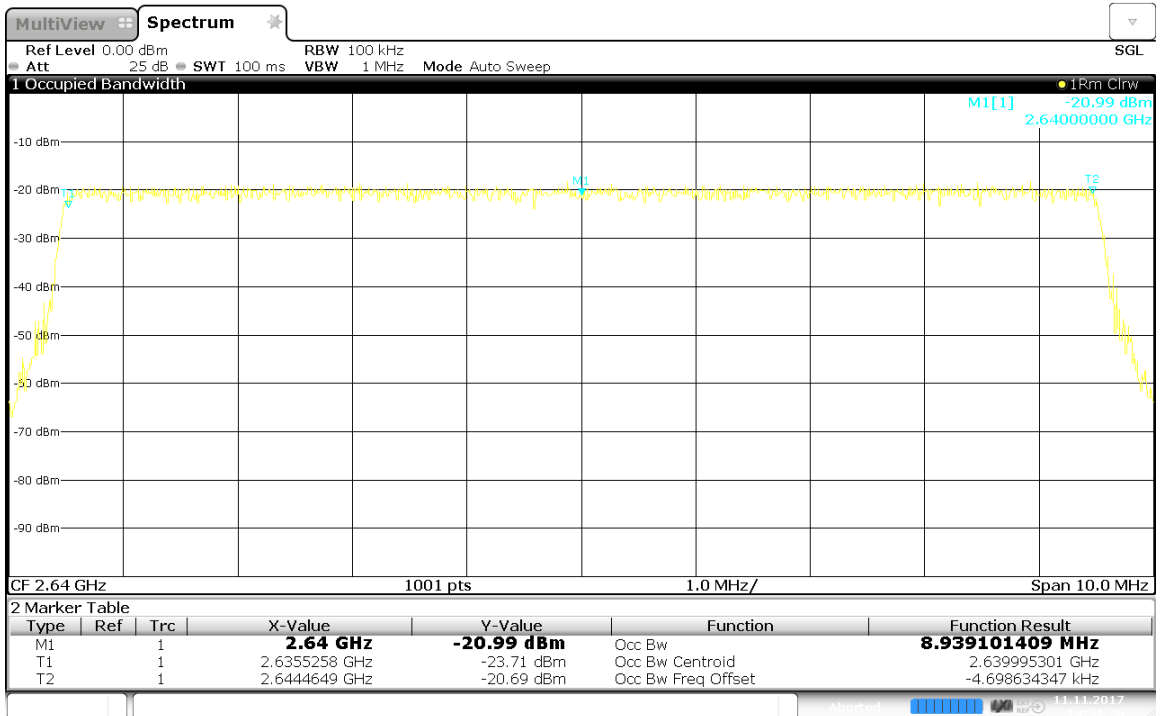
Channel Bandwidth :10M+10M(2640MHz & 2670MHz)

Port	Carry1 Center Freq. (MHz)	Carry1 99% Power Bandwidth (MHz)	Carry2 Center Freq. (MHz)	Carry2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2640	8.9244	2670	8.9312	10
2		8.9391		8.9383	10
3		8.94		8.9374	10
4		8.9356		8.9362	10

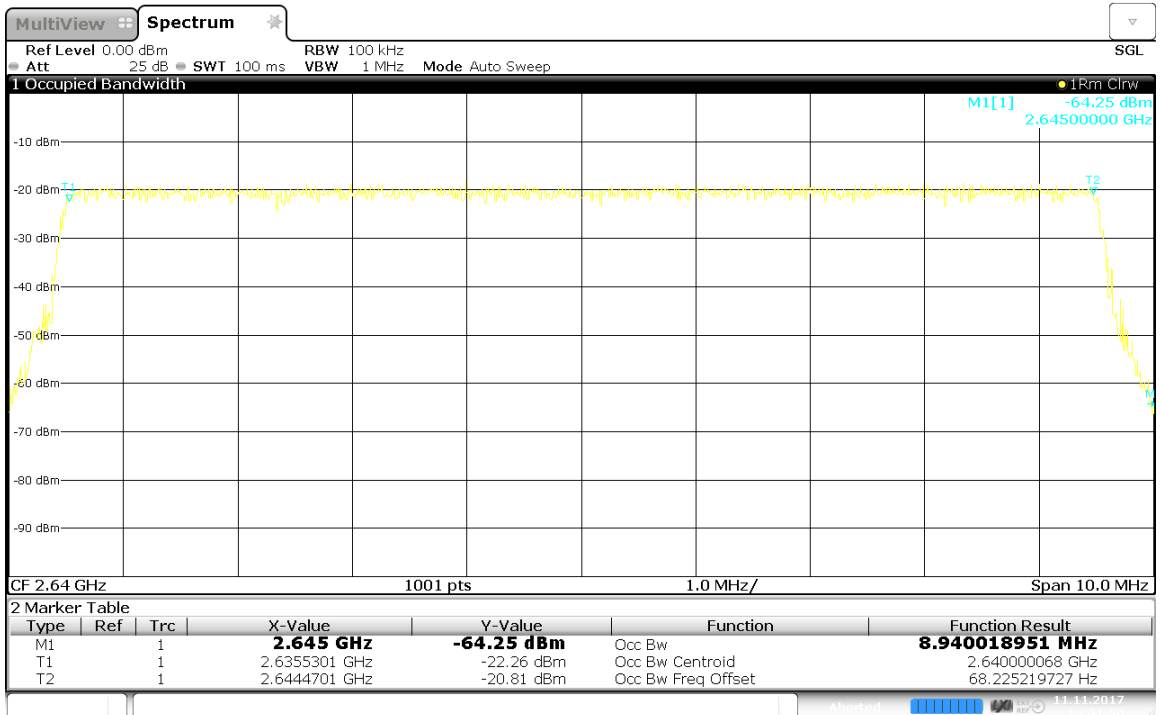
10M -2640MHz-Port 1~4:



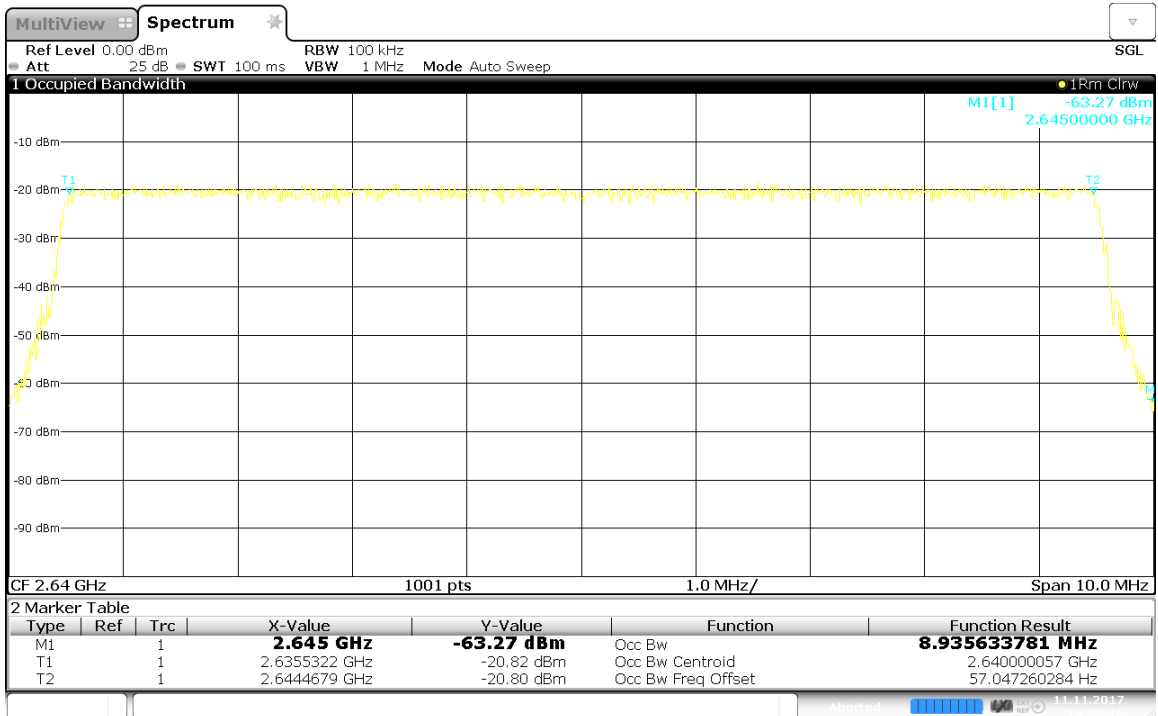
14:51:01 11.11.2017



14:51:26 11.11.2017

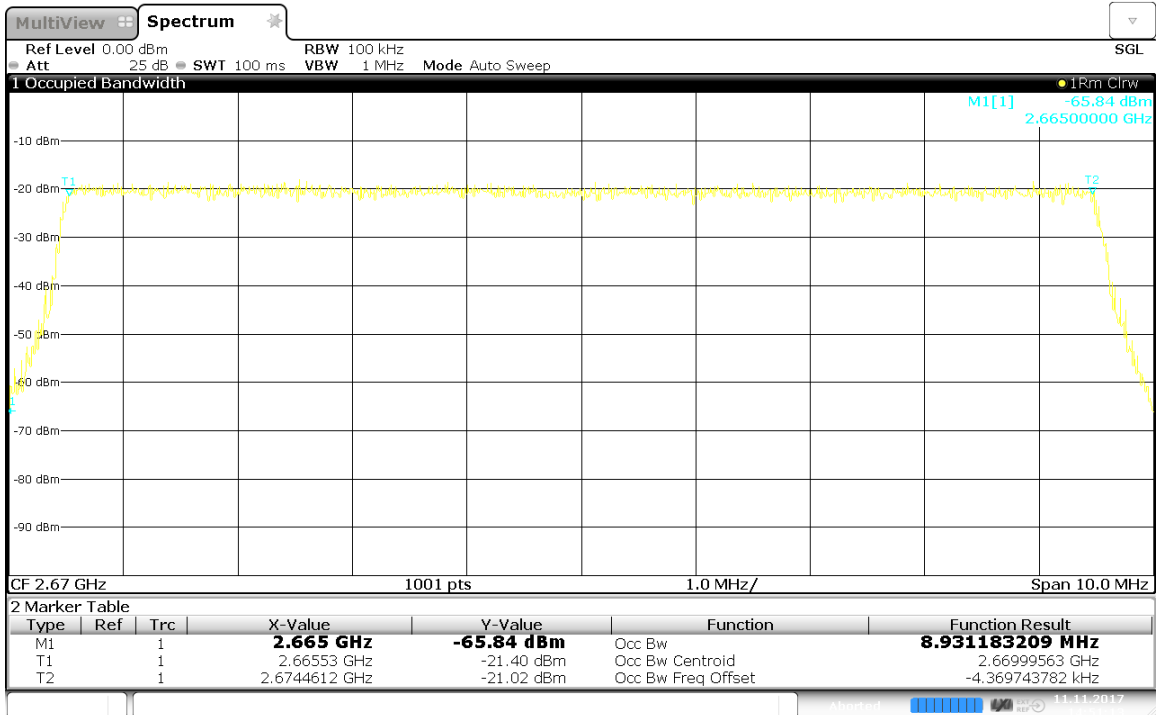


14:51:51 11.11.2017

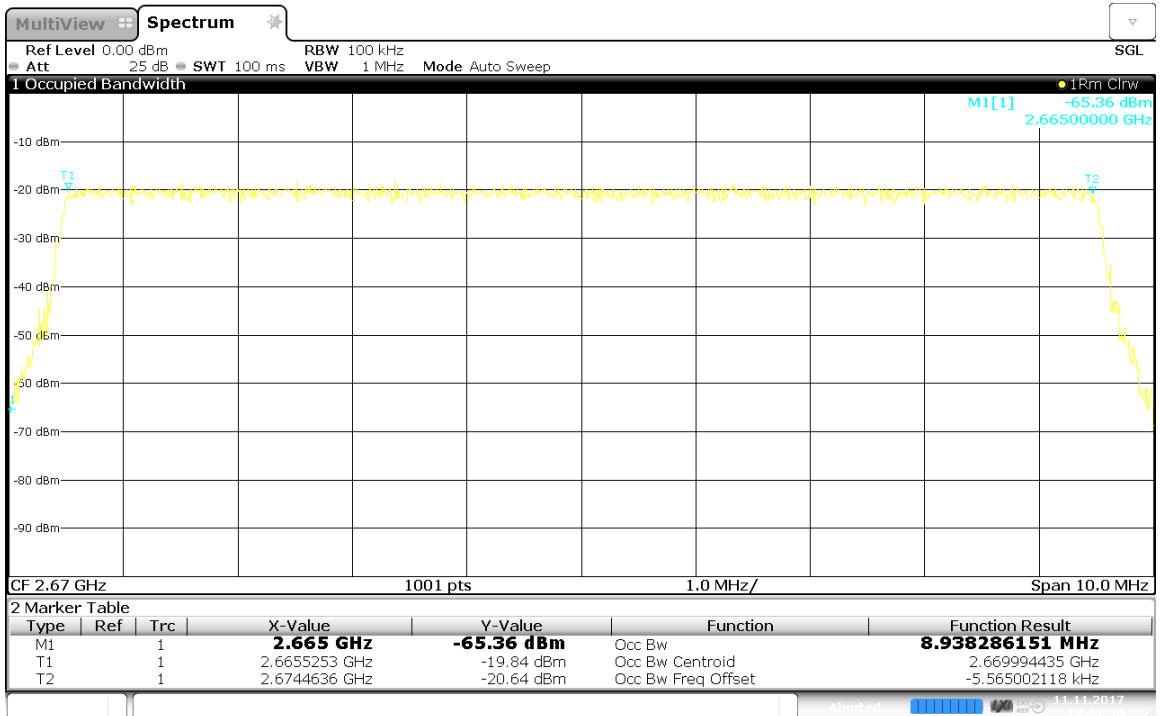


14:52:16 11.11.2017

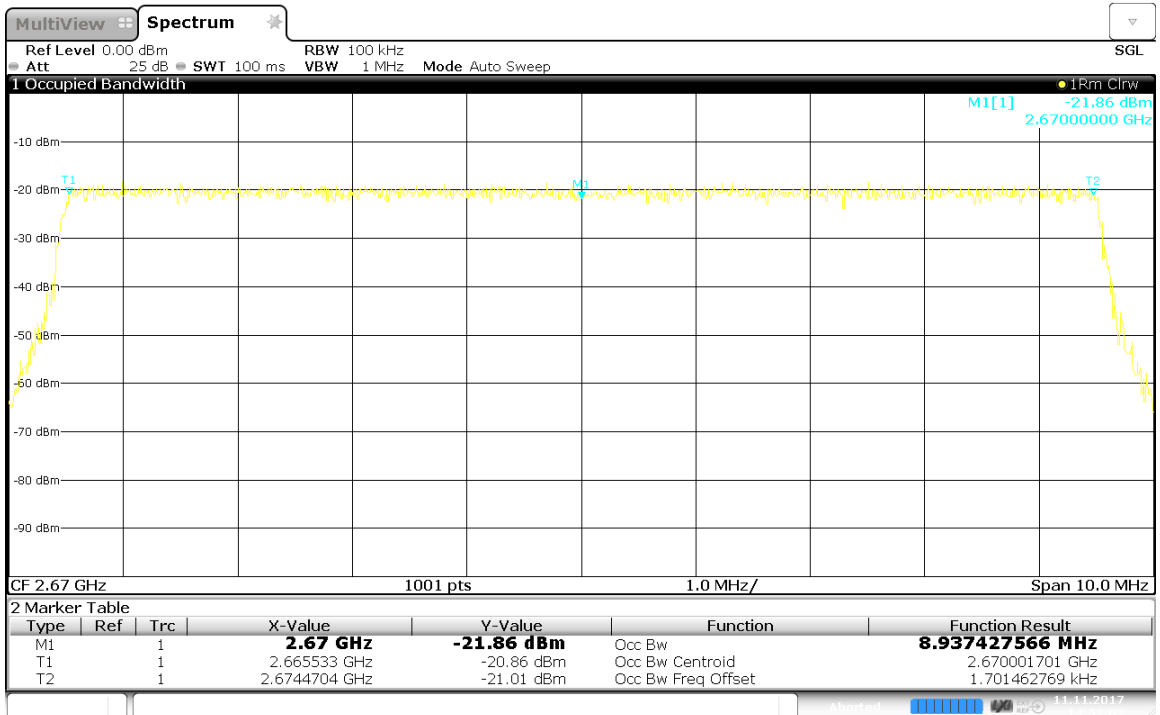
10M -2670MHz-Port 1~4:



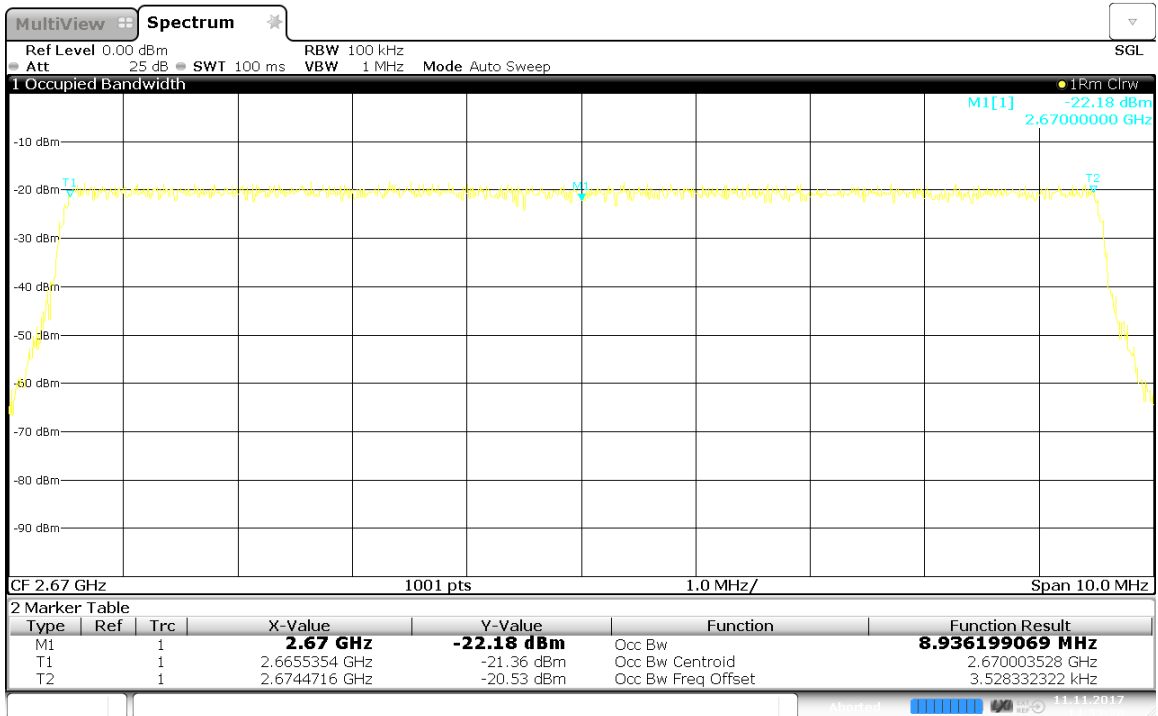
14:51:13 11.11.2017



14:51:38 11.11.2017



14:52:03 11.11.2017

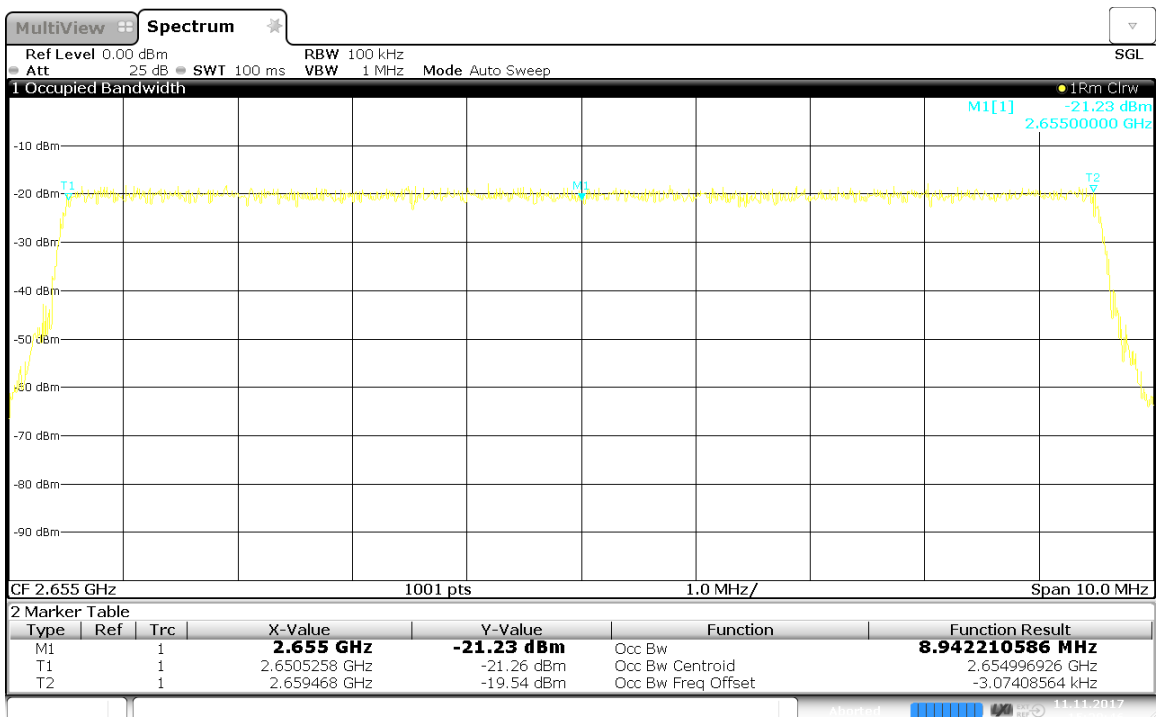


14:52:28 11.11.2017

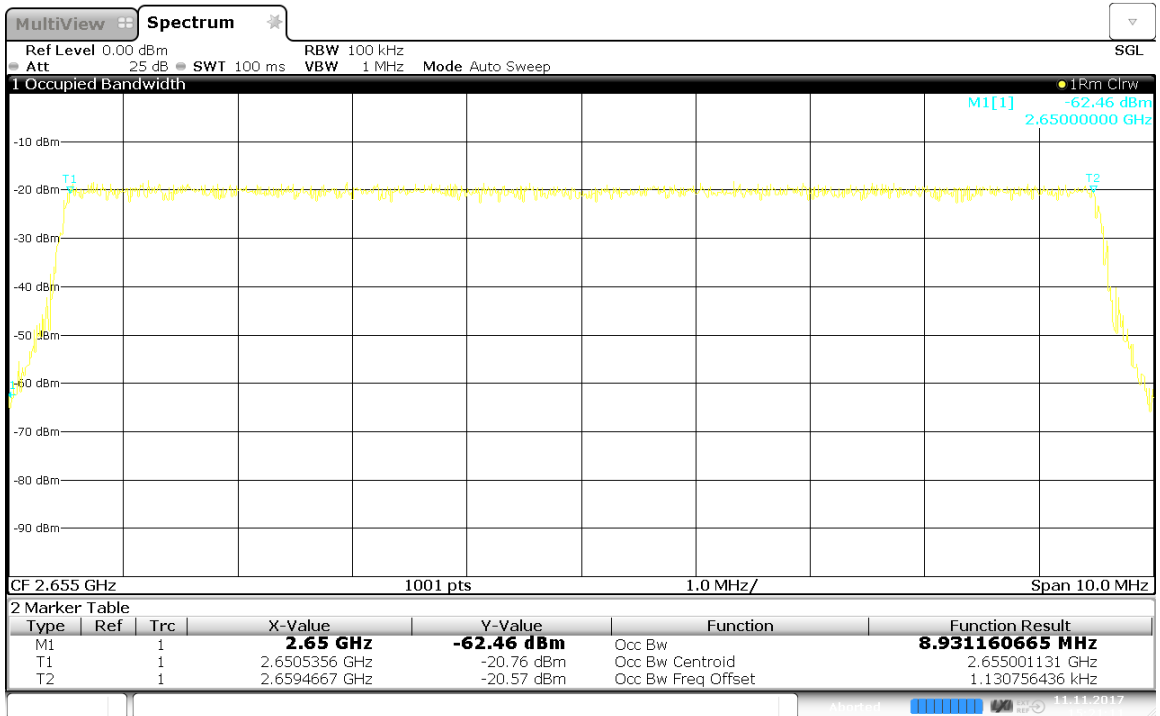
Channel Bandwidth :10M+10M(2655MHz & 2685MHz)

Port	Carry1 Center Freq. (MHz)	Carry1 99% Power Bandwidth (MHz)	Carry2 Center Freq. (MHz)	Carry2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2655	8.9422	2685	8.9294	10
2		8.9312		8.9417	10
3		8.9398		8.9347	10
4		8.9357		8.9343	10

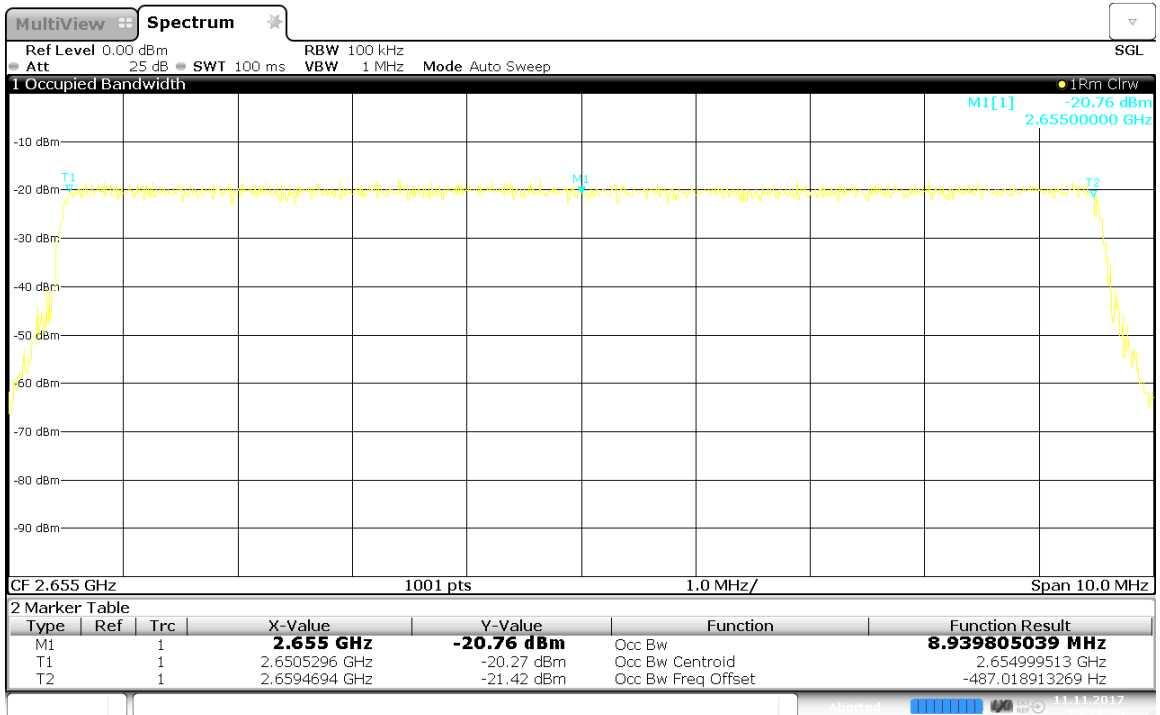
10M -2655MHz-Port 1~4:



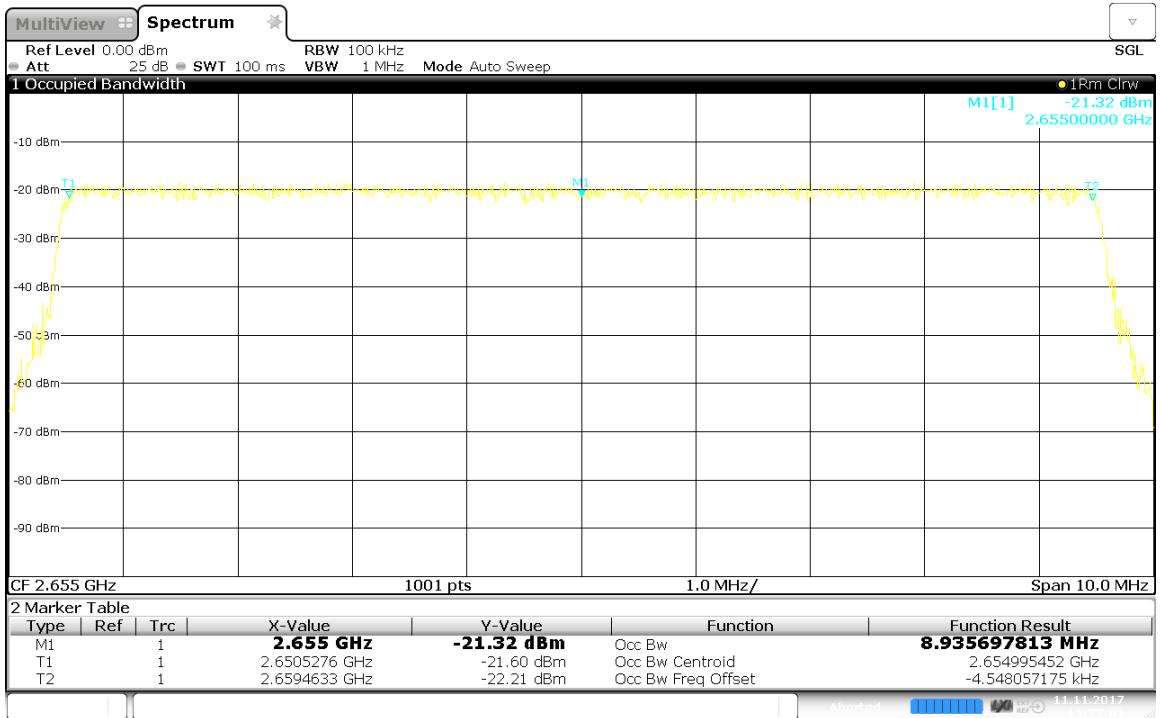
15:20:47 11.11.2017



15:21:12 11.11.2017

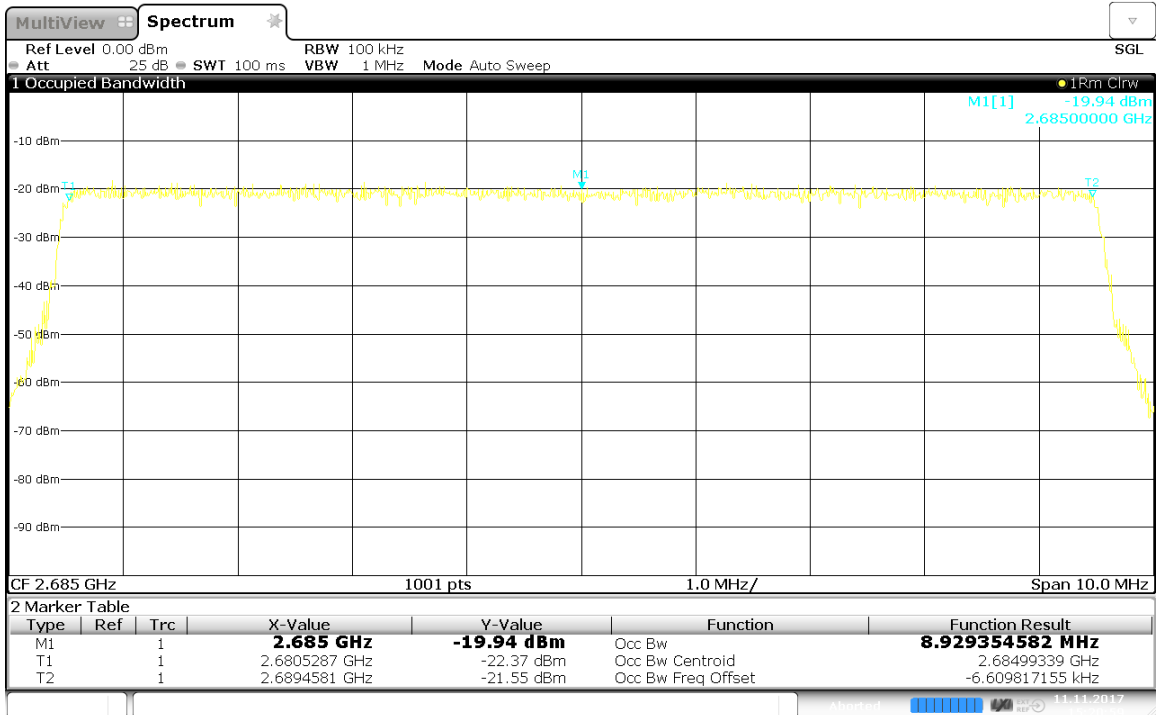


15:21:37 11.11.2017

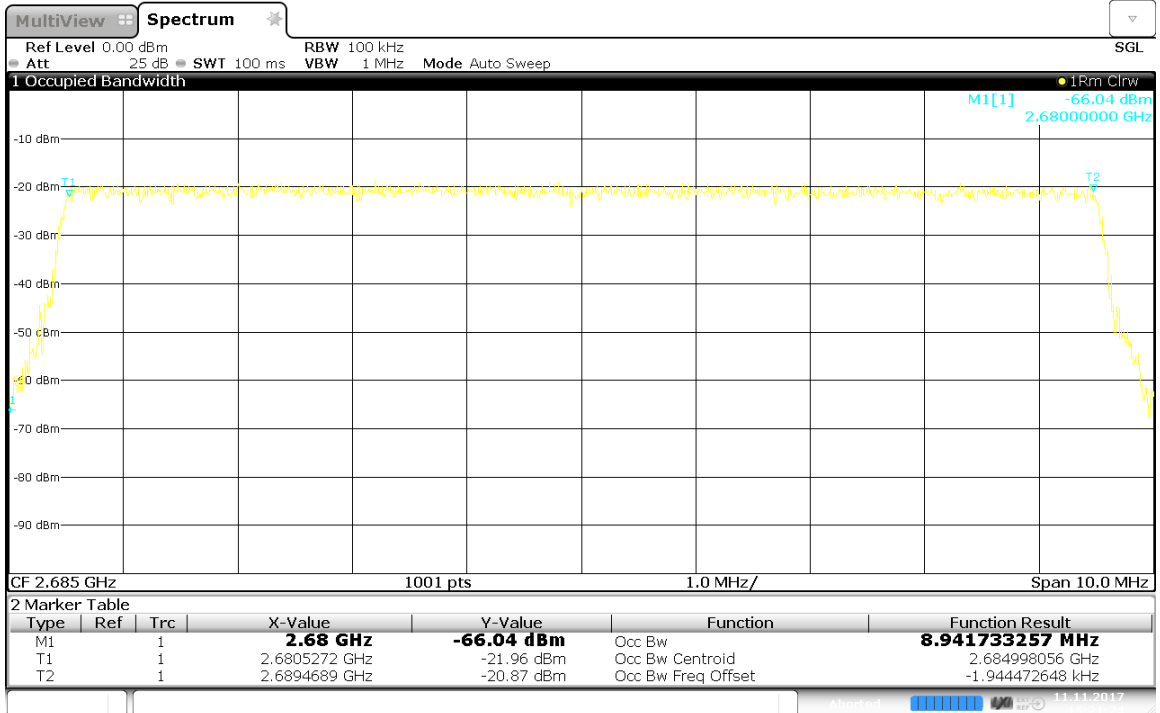


15:22:02 11.11.2017

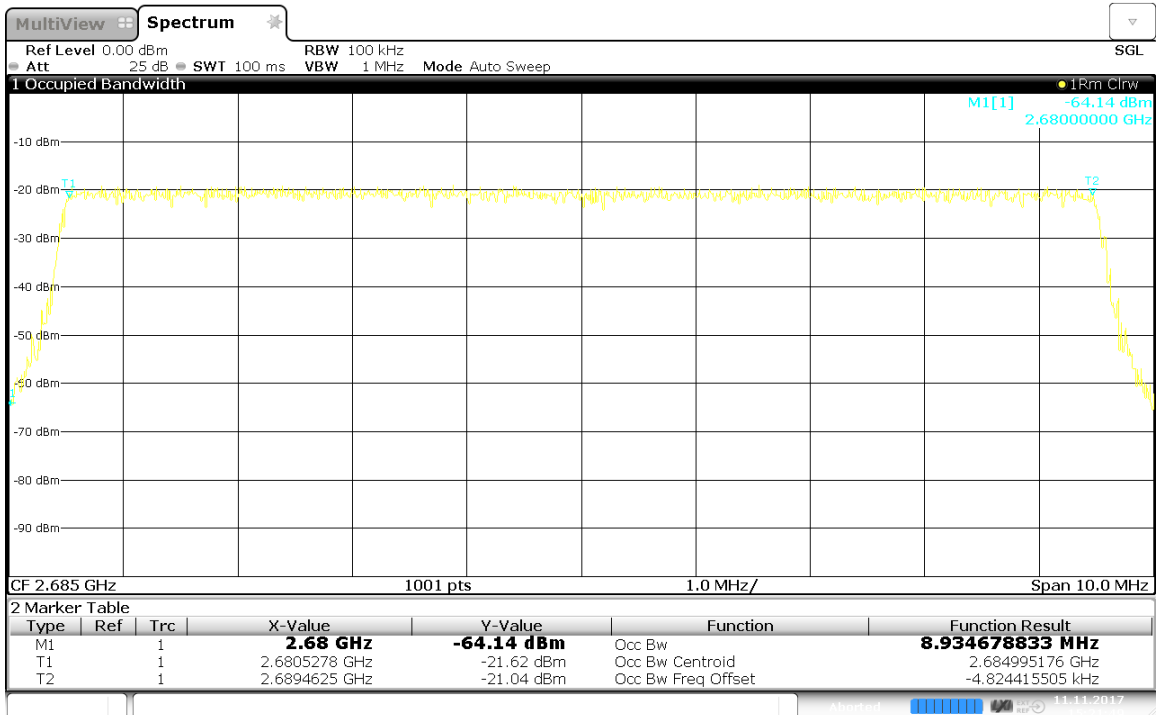
10M -2685MHz-Port 1~4:



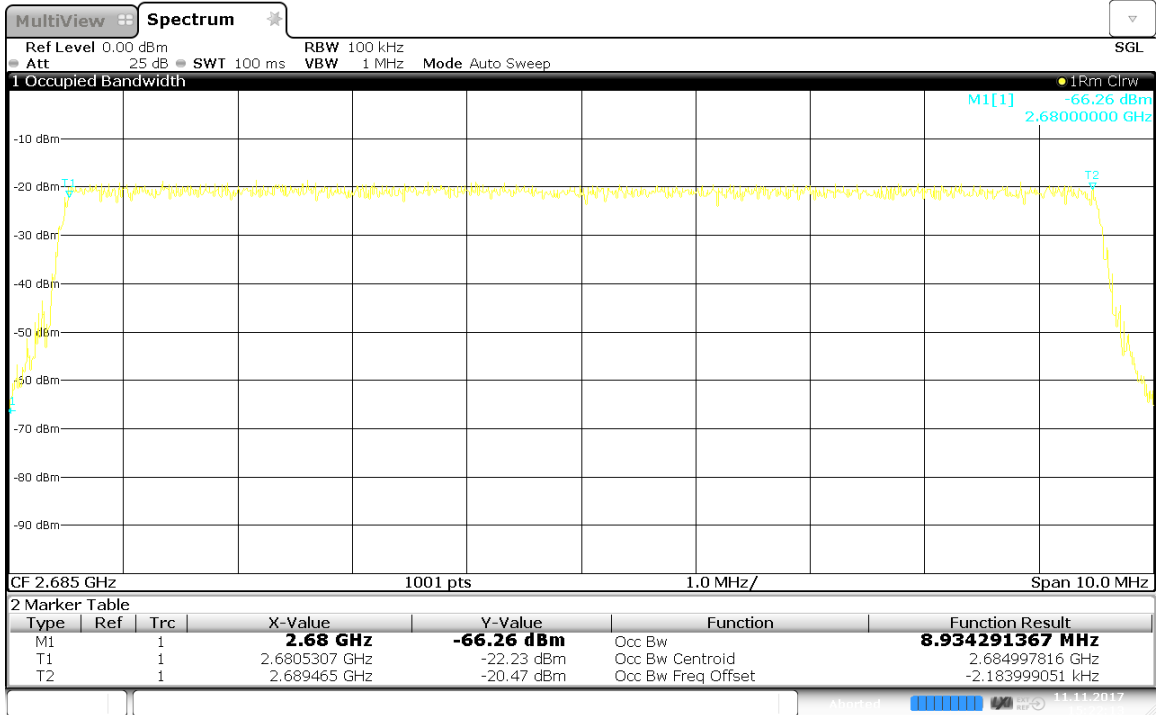
15:21:00 11.11.2017



15:21:24 11.11.2017



15:21:49 11.11.2017

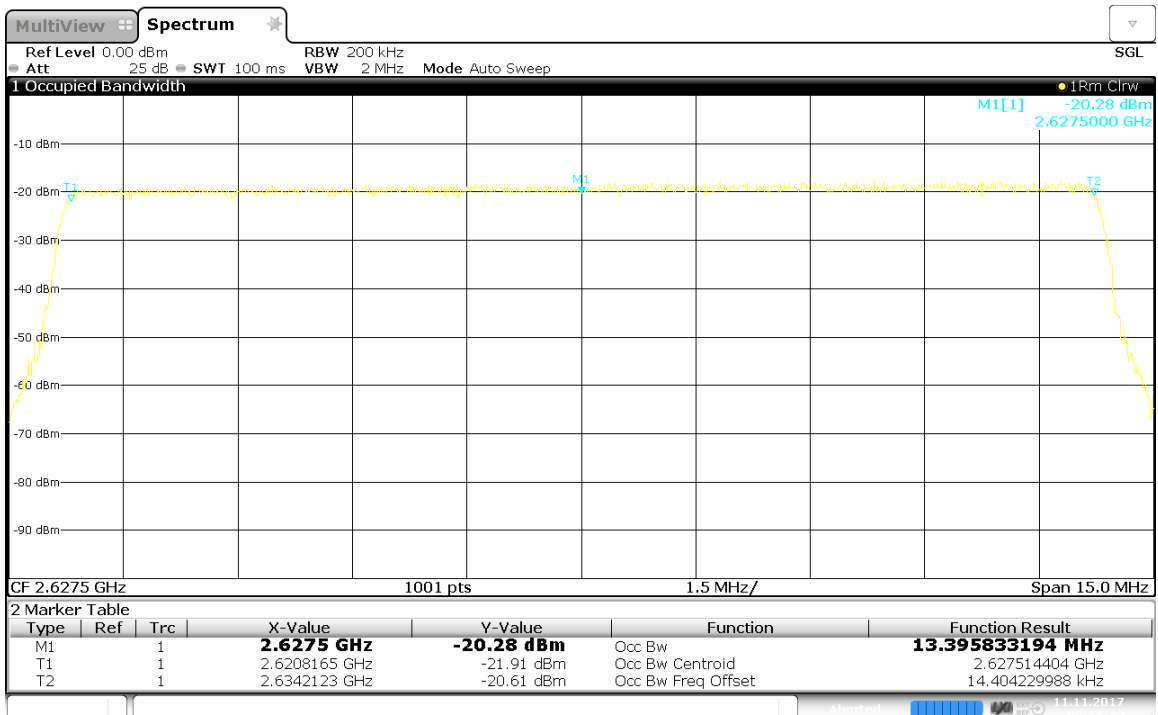


15:22:14 11.11.2017

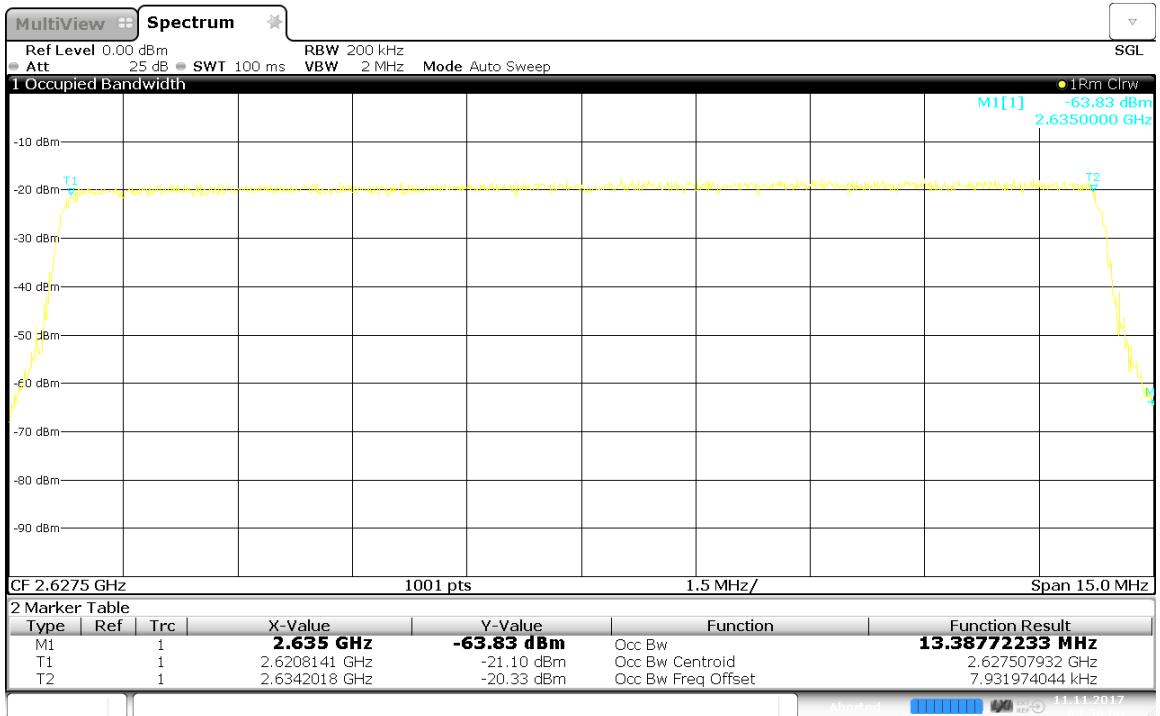
Channel Bandwidth :15M+15M(2627.5MHz & 2652.5MHz)

Port	Carry1 Center Freq. (MHz)	Carry1 99% Power Bandwidth (MHz)	Carry2 Center Freq. (MHz)	Carry2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2627.5	13.3958	2652.5	13.4016	15
2		13.3877		13.4061	15
3		13.4038		13.4111	15
4		13.4001		13.3971	15

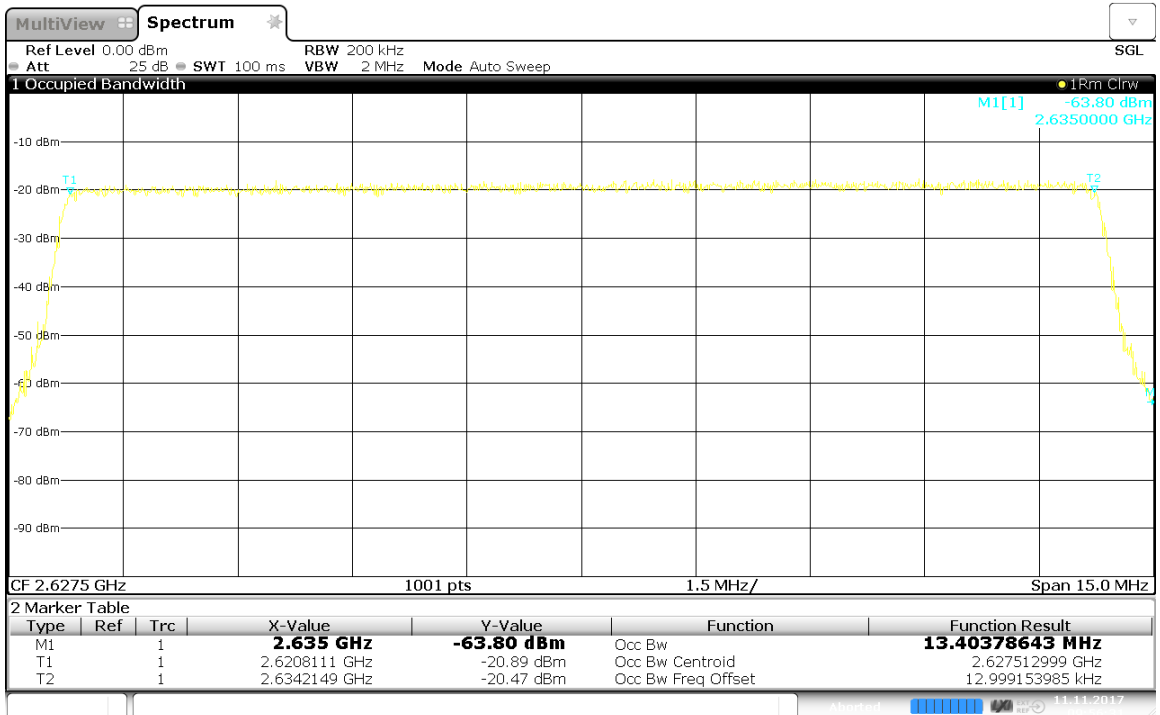
15M -2627.5MHz-Port 1~4:



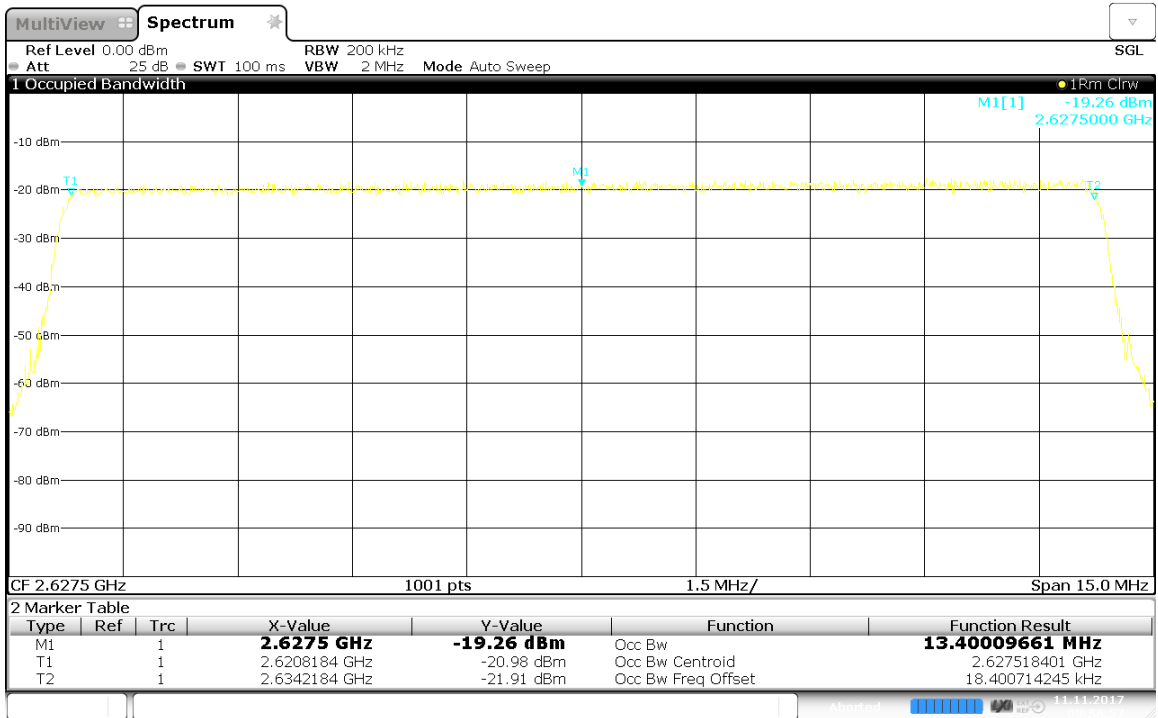
09:55:42 11.11.2017



09:56:07 11.11.2017

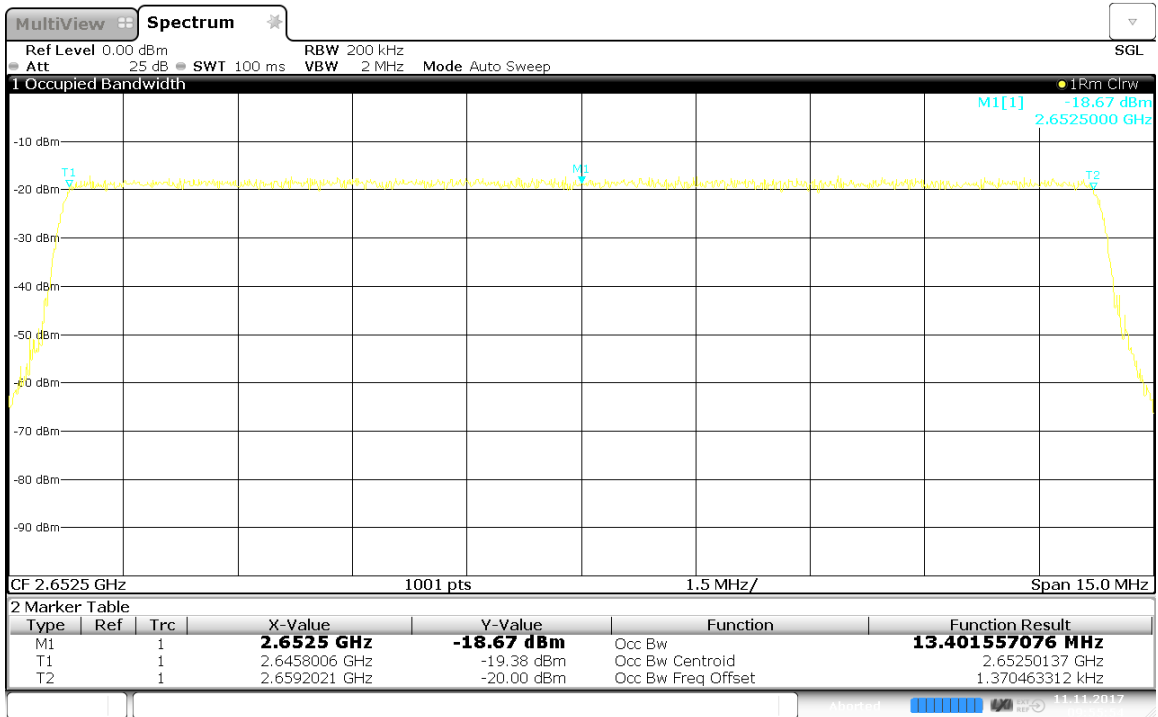


09:56:32 11.11.2017

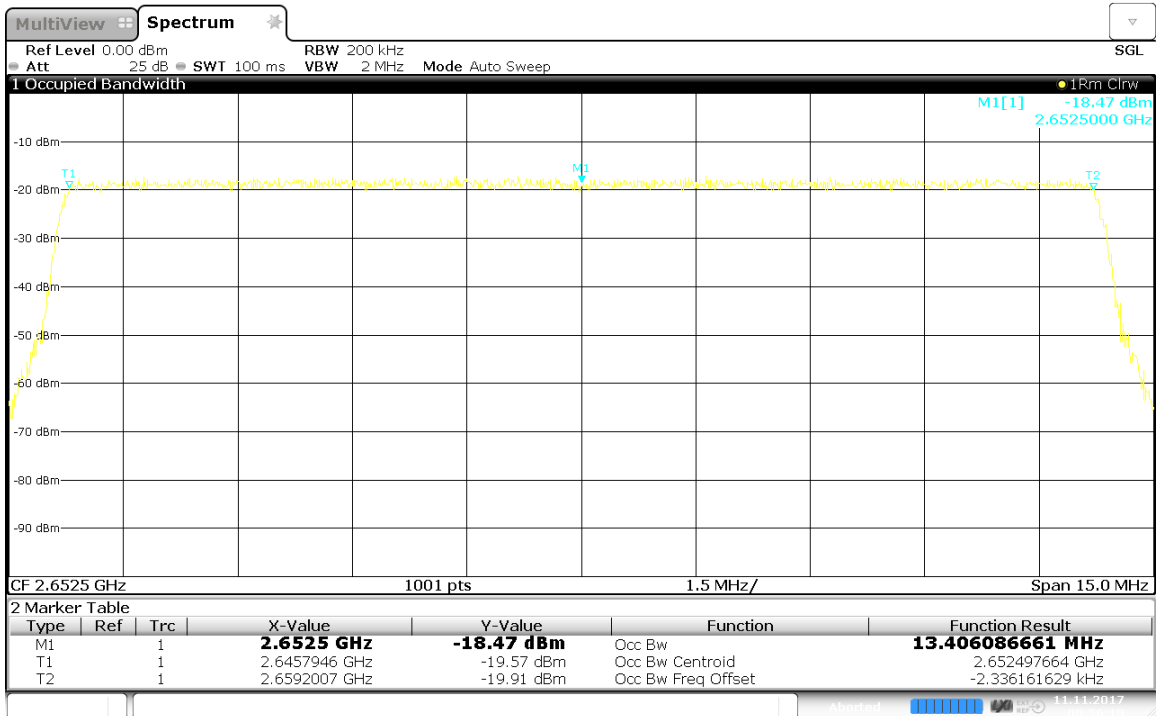


09:56:57 11.11.2017

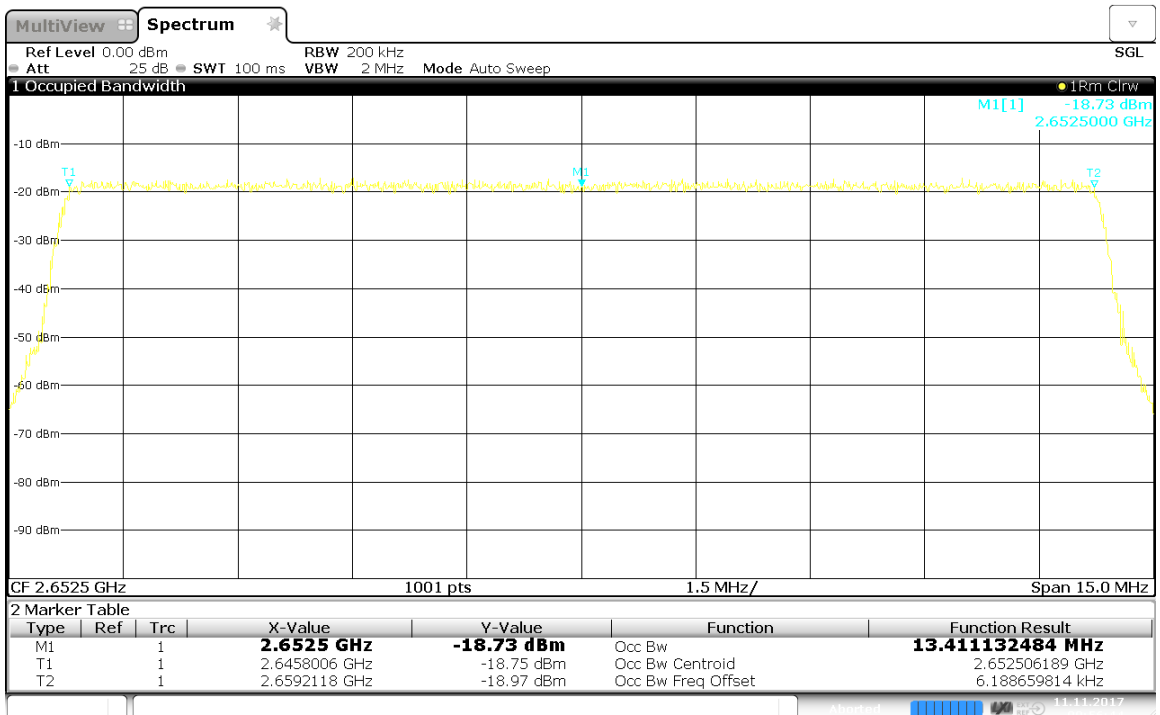
15M -2652.5MHz-Port 1~4:



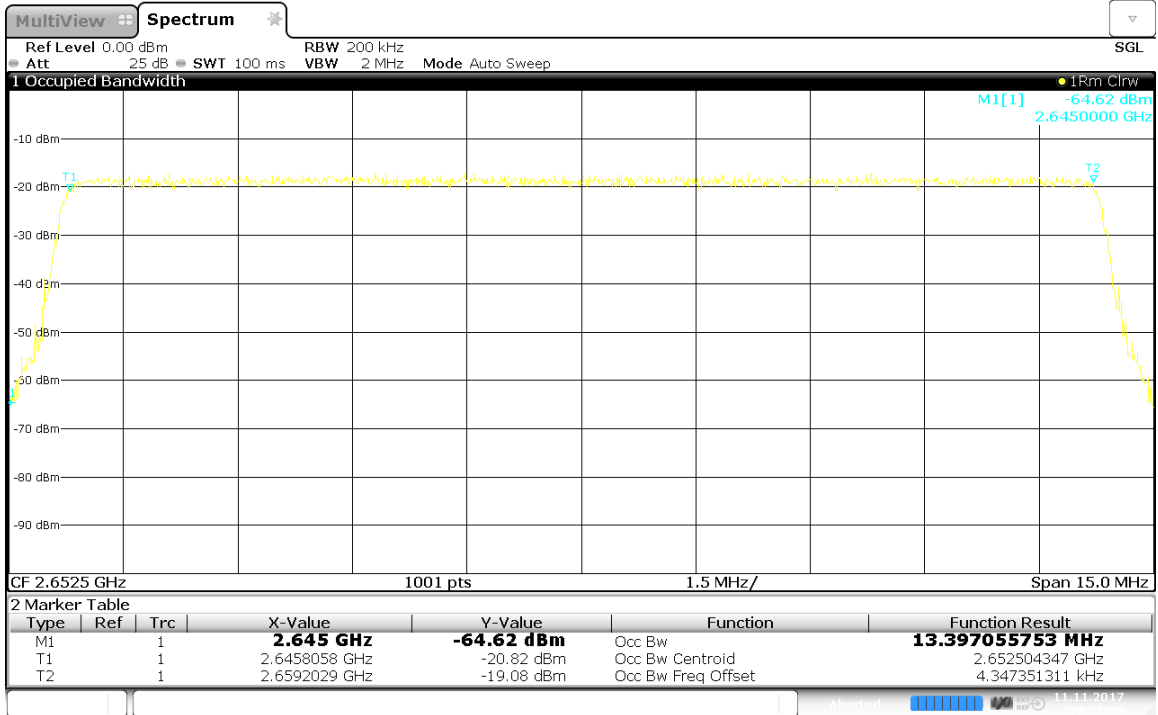
09:55:55 11.11.2017



09:56:20 11.11.2017



09:56:44 11.11.2017

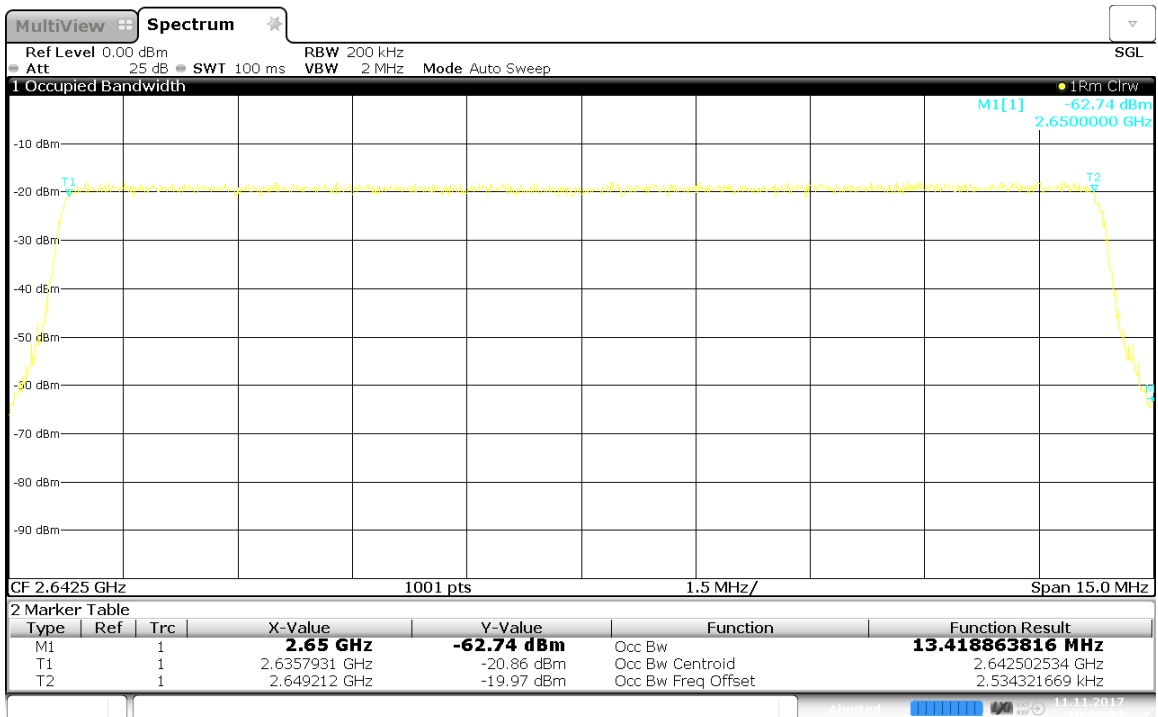


09:57:09 11.11.2017

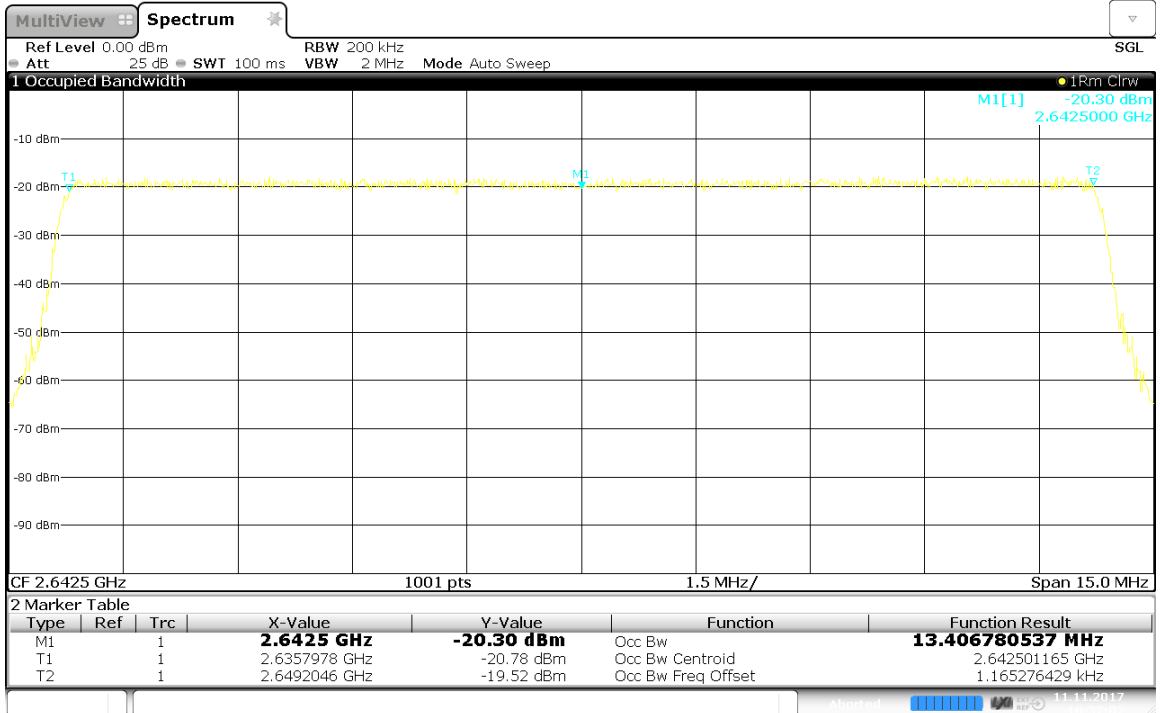
Channel Bandwidth :15M+15M(2642.5MHz & 2667.5MHz)

Port	Carry1 Center Freq. (MHz)	Carry1 99% Power Bandwidth (MHz)	Carry2 Center Freq. (MHz)	Carry2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2642.5	13.4189	2667.5	13.411	15
2		13.4068		13.4146	15
3		13.4051		13.4109	15
4		13.4043		13.4116	15

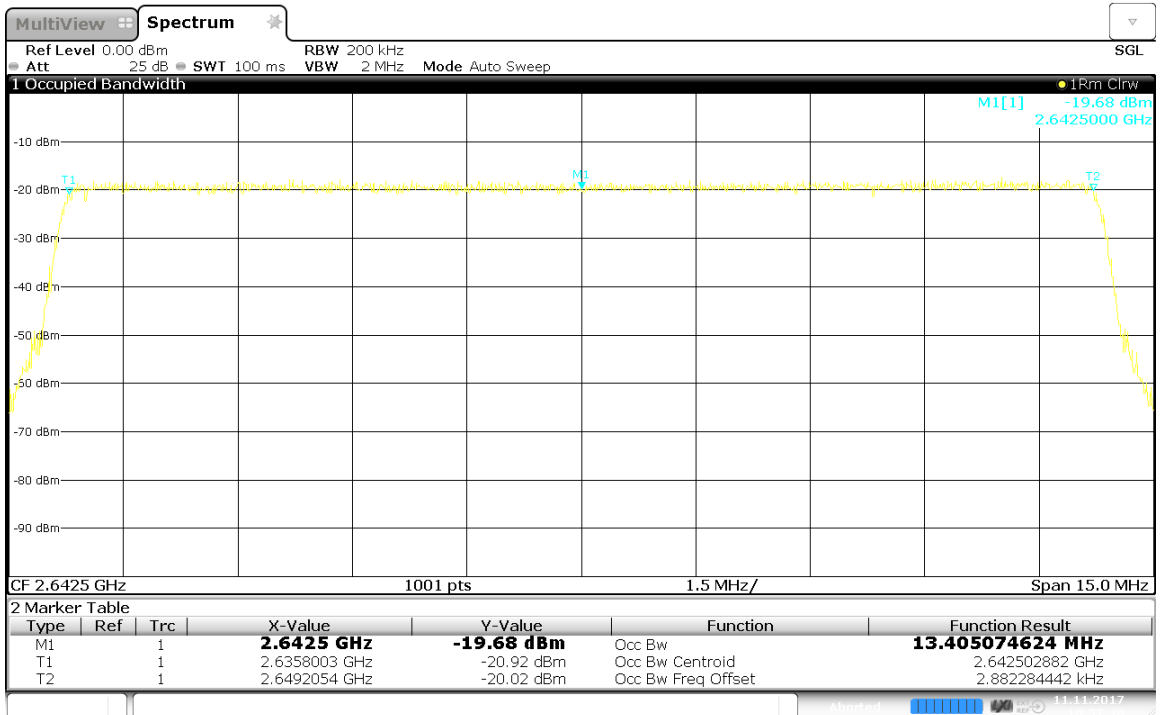
15M -2642.5MHz-Port 1~4:



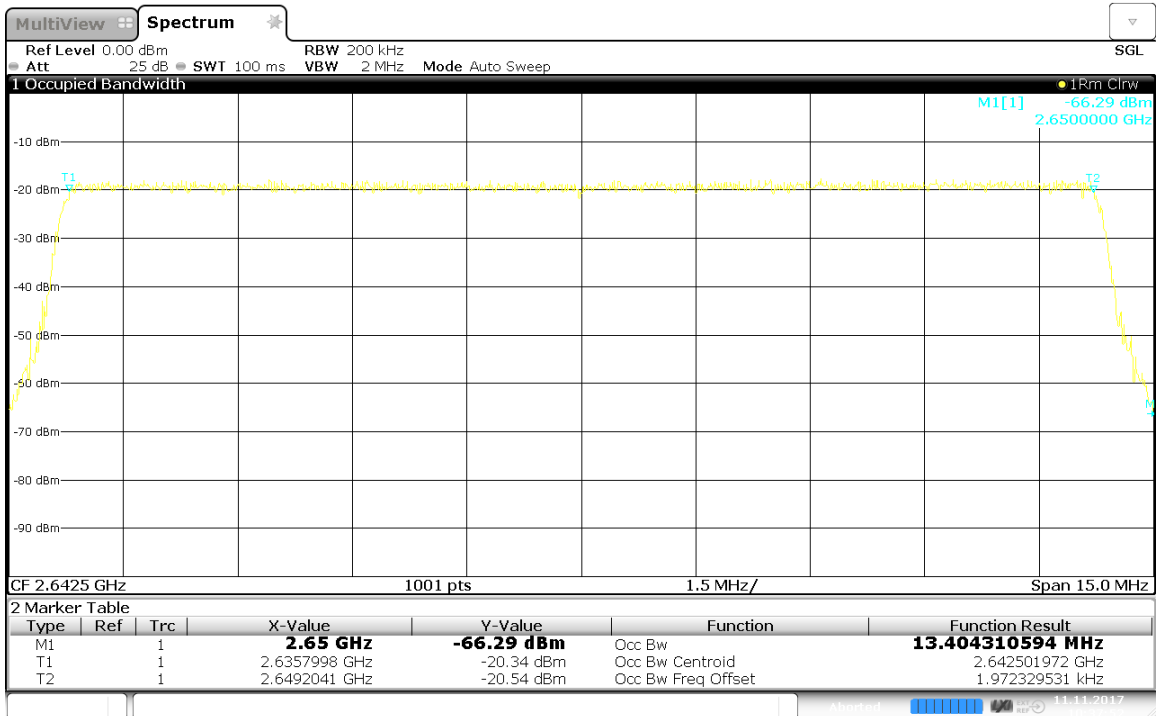
10:36:38 11.11.2017



10:37:03 11.11.2017

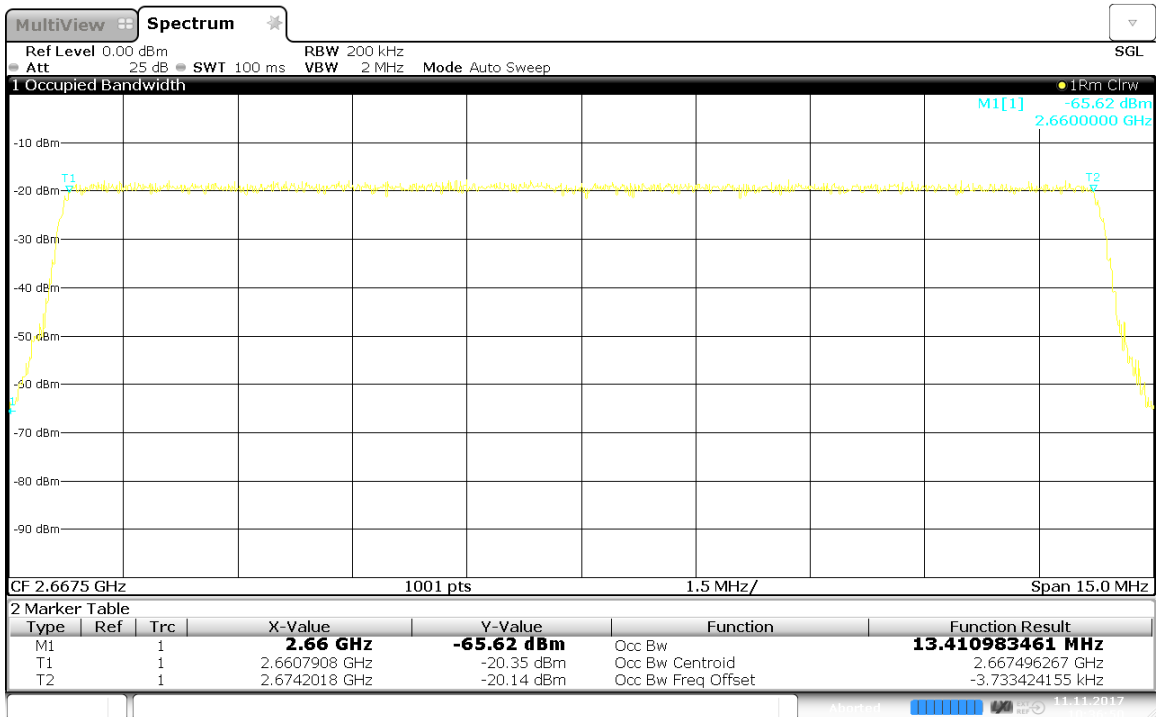


10:37:28 11.11.2017



10:37:53 11.11.2017

15M -2667.5MHz-Port 1~4:



10:36:50 11.11.2017