

# RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
<b>Product Name:</b>	FTTH GEN8 AX GPON GR140IG V2 B05-1
<b>Test Model:</b>	GR140IG
<b>Sample ID:</b>	HC-C-202304-0016-01-01#
Environmental Conditions	
<b>Temperature:</b>	23.7°C
<b>Relative Humidity:</b>	49%
<b>Test Voltage:</b>	DC 12V
<b>Test Engineer:</b>	Jion Lee
Note: For a more detailed features description, please refer to the report TBR-C-202304-0016-7.	

## Contents

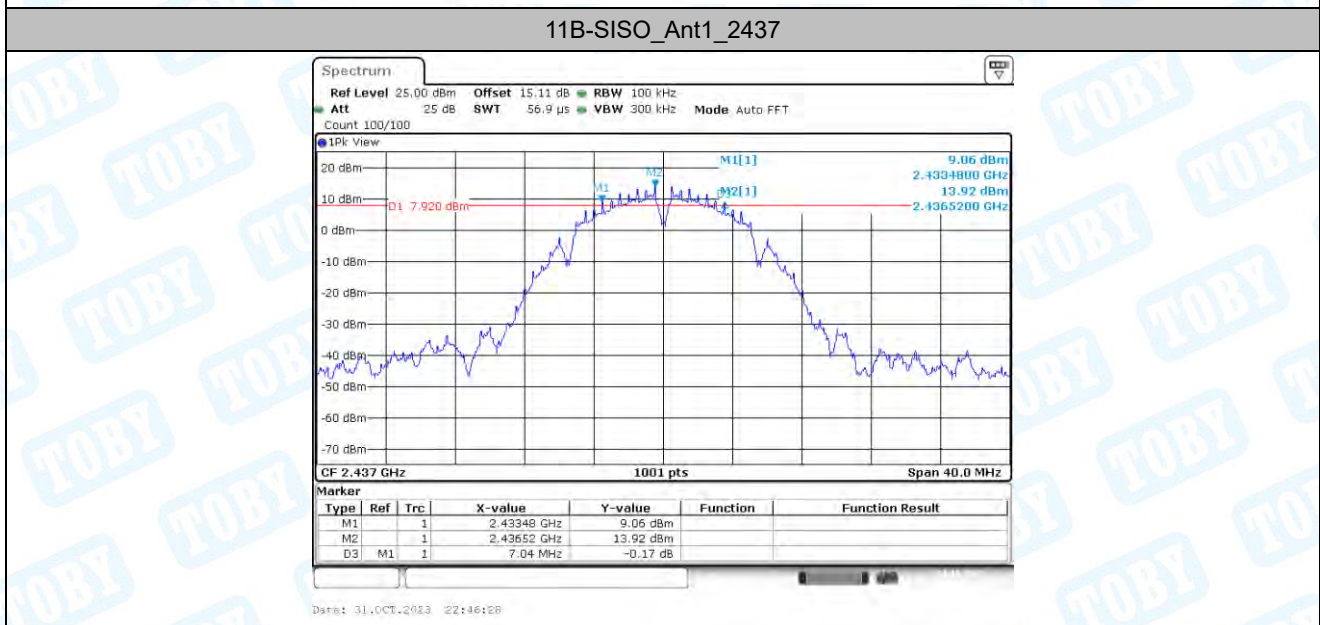
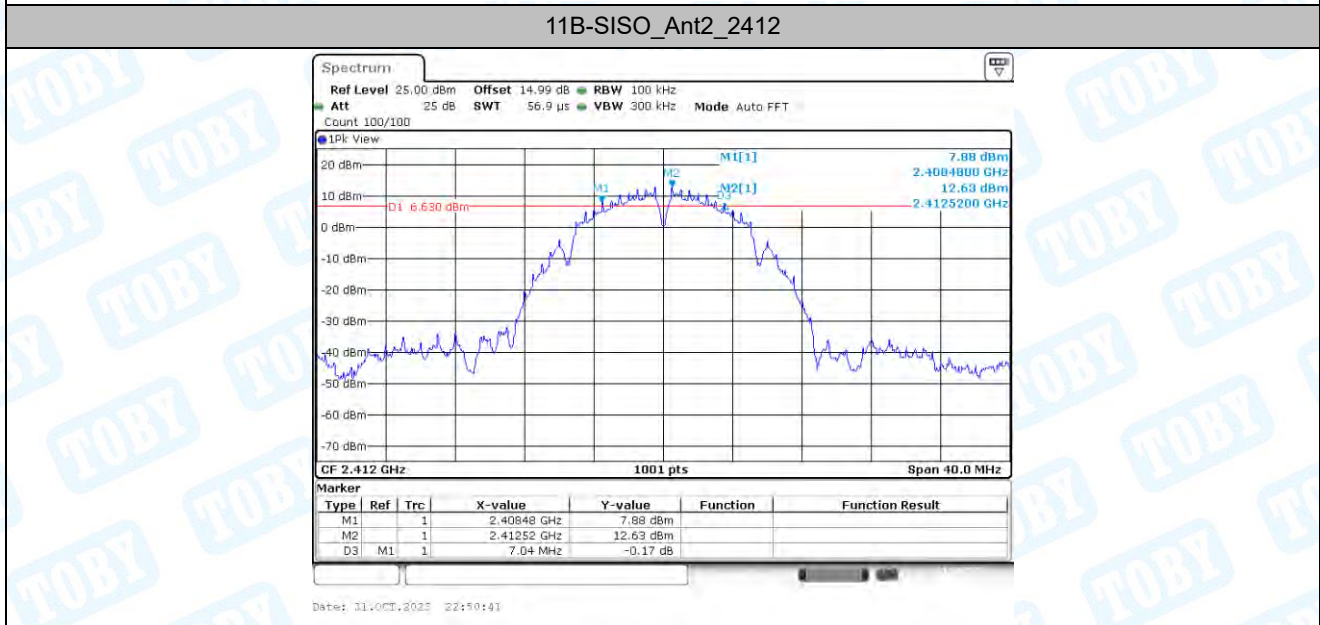
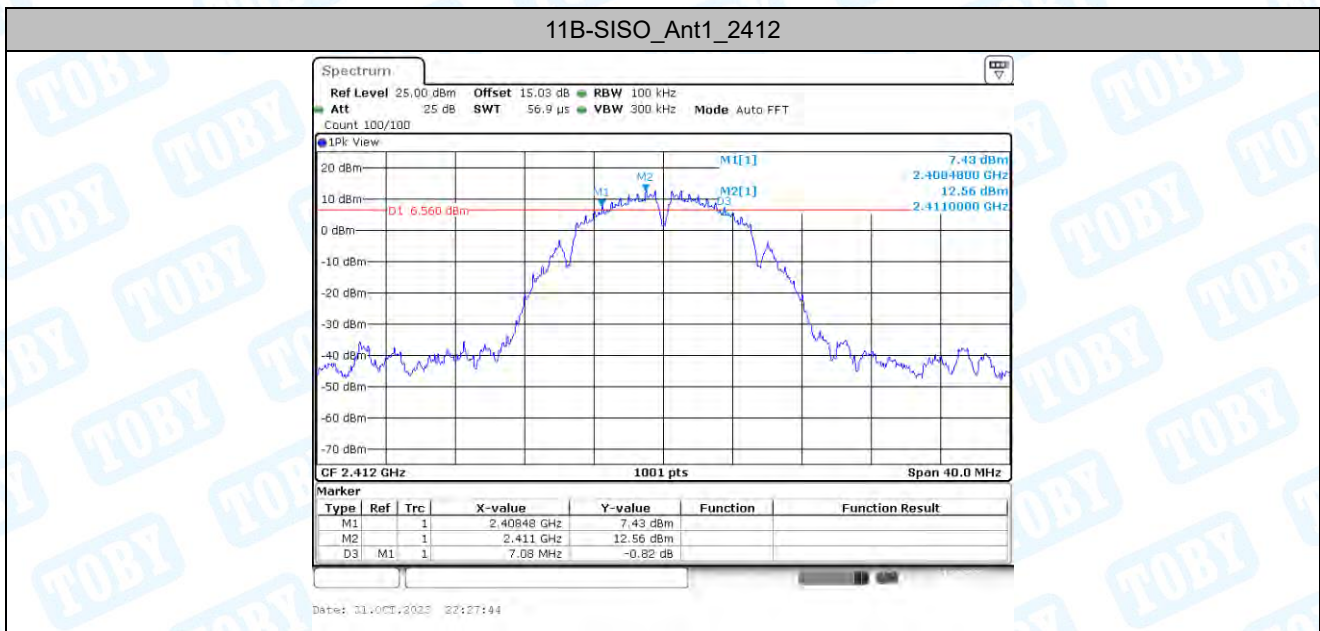
1. DTS Bandwidth.....	3
1.1. Test Result.....	3
1.2. Test Graphs .....	4
2. Maximum conducted output power.....	32
2.1. Test Result.....	32
3. Maximum power spectral density .....	34
3.1. Test Result.....	34
3.2. Test Graphs .....	36
4. Band edge measurements .....	70
4.1. Test Result.....	70
4.2. Test Graphs .....	71
5. Conducted Spurious Emission.....	85
5.1. Test Result.....	85
5.2. Test Graphs .....	88
6. Duty Cycle .....	148
6.1. Test Result.....	148

# 1. DTS Bandwidth

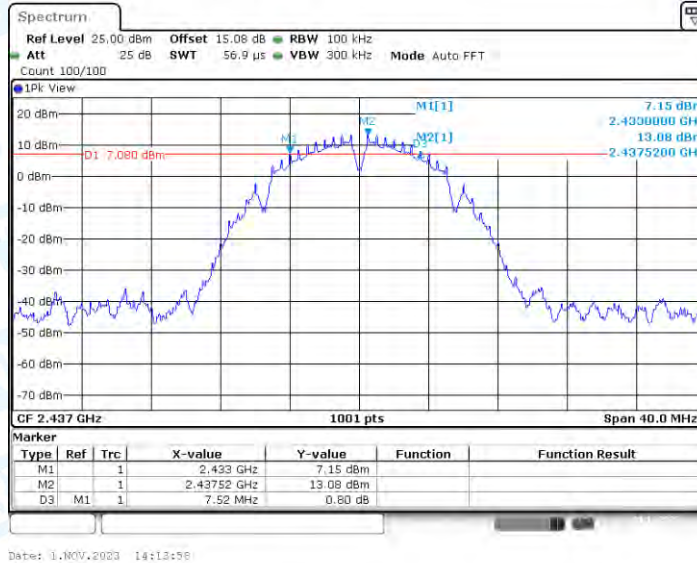
## 1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-SISO	Ant1	2412	7.08	2408.48	2415.56	0.5	PASS
	Ant2	2412	7.04	2408.48	2415.52	0.5	PASS
	Ant1	2437	7.04	2433.48	2440.52	0.5	PASS
	Ant2	2437	7.52	2433.00	2440.52	0.5	PASS
	Ant1	2462	7.04	2458.48	2465.52	0.5	PASS
	Ant2	2462	7.04	2458.48	2465.52	0.5	PASS
11G-SISO	Ant1	2412	16.08	2404.08	2420.16	0.5	PASS
	Ant2	2412	16.04	2404.12	2420.16	0.5	PASS
	Ant1	2437	16.08	2429.08	2445.16	0.5	PASS
	Ant2	2437	15.72	2429.08	2444.80	0.5	PASS
	Ant1	2462	15.68	2454.08	2469.76	0.5	PASS
	Ant2	2462	16.04	2454.12	2470.16	0.5	PASS
11B-CDD	Ant1	2412	7.04	2408.48	2415.52	0.5	PASS
	Ant2	2412	7.04	2408.48	2415.52	0.5	PASS
	Ant1	2437	7.04	2433.48	2440.52	0.5	PASS
	Ant2	2437	7.04	2433.48	2440.52	0.5	PASS
	Ant1	2462	7.04	2458.48	2465.52	0.5	PASS
	Ant2	2462	7.04	2458.48	2465.52	0.5	PASS
11G-CDD	Ant1	2412	15.68	2404.08	2419.76	0.5	PASS
	Ant2	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant1	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant2	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant1	2462	16.08	2454.08	2470.16	0.5	PASS
	Ant2	2462	16.32	2453.84	2470.16	0.5	PASS
11N20-CDD	Ant1	2412	17.16	2403.60	2420.76	0.5	PASS
	Ant2	2412	17.56	2403.24	2420.80	0.5	PASS
	Ant1	2437	17.56	2428.20	2445.76	0.5	PASS
	Ant2	2437	17.60	2428.20	2445.80	0.5	PASS
	Ant1	2462	17.52	2453.24	2470.76	0.5	PASS
	Ant2	2462	17.56	2453.20	2470.76	0.5	PASS
11N40-CDD	Ant1	2422	35.76	2403.84	2439.60	0.5	PASS
	Ant2	2422	35.52	2404.08	2439.60	0.5	PASS
	Ant1	2437	35.76	2418.84	2454.60	0.5	PASS
	Ant2	2437	35.76	2418.84	2454.60	0.5	PASS
	Ant1	2452	35.68	2434.08	2469.76	0.5	PASS
	Ant2	2452	36.32	2433.84	2470.16	0.5	PASS
VHT20-CDD	Ant1	2412	17.56	2403.20	2420.76	0.5	PASS
	Ant2	2412	16.92	2403.84	2420.76	0.5	PASS
	Ant1	2437	17.60	2428.20	2445.80	0.5	PASS
	Ant2	2437	17.52	2428.24	2445.76	0.5	PASS
	Ant1	2462	17.52	2453.24	2470.76	0.5	PASS
	Ant2	2462	17.60	2453.20	2470.80	0.5	PASS
VHT40-CDD	Ant1	2422	35.76	2403.84	2439.60	0.5	PASS
	Ant2	2422	35.92	2403.84	2439.76	0.5	PASS
	Ant1	2437	35.76	2418.84	2454.60	0.5	PASS
	Ant2	2437	35.92	2418.84	2454.76	0.5	PASS
	Ant1	2452	35.76	2433.84	2469.60	0.5	PASS
	Ant2	2452	36.32	2433.84	2470.16	0.5	PASS
11AX20-CDD	Ant1	2412	18.52	2402.72	2421.24	0.5	PASS
	Ant2	2412	18.56	2402.92	2421.48	0.5	PASS
	Ant1	2437	18.64	2427.88	2446.52	0.5	PASS
	Ant2	2437	18.88	2427.56	2446.44	0.5	PASS
	Ant1	2462	18.92	2452.60	2471.52	0.5	PASS
	Ant2	2462	18.88	2452.60	2471.48	0.5	PASS
11AX40-CDD	Ant1	2422	37.60	2403.20	2440.80	0.5	PASS
	Ant2	2422	36.40	2403.20	2439.60	0.5	PASS
	Ant1	2437	37.20	2418.52	2455.72	0.5	PASS
	Ant2	2437	37.28	2418.20	2455.48	0.5	PASS
	Ant1	2452	37.36	2433.12	2470.48	0.5	PASS
	Ant2	2452	35.04	2434.56	2469.60	0.5	PASS

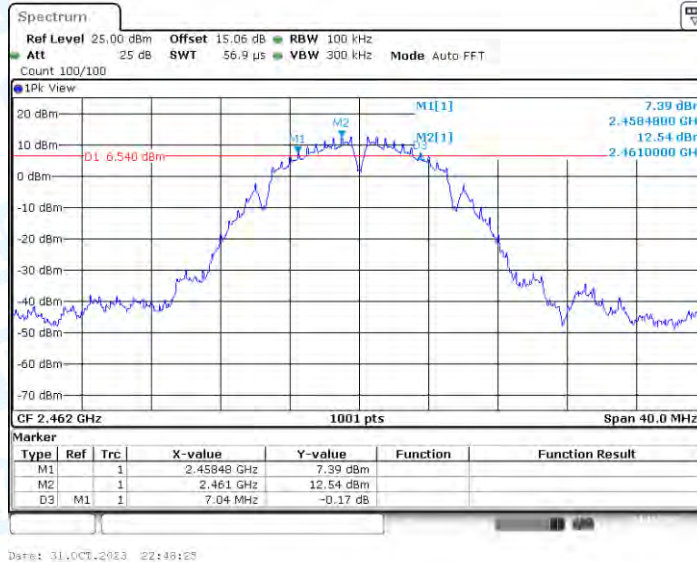
## 1.2. Test Graphs



11B-SISO\_Ant2\_2437



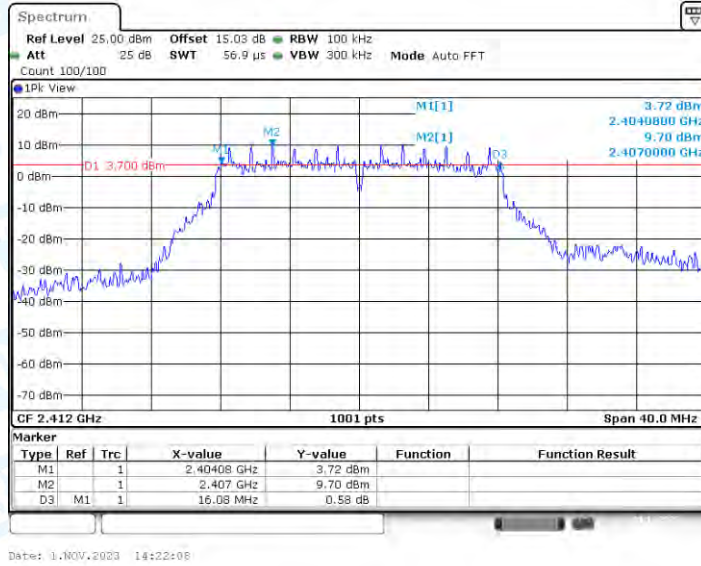
11B-SISO\_Ant1\_2462



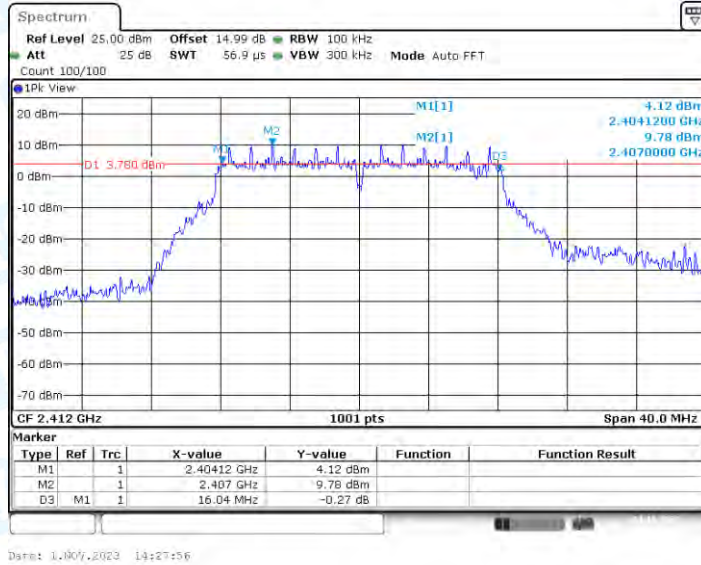
11B-SISO\_Ant2\_2462



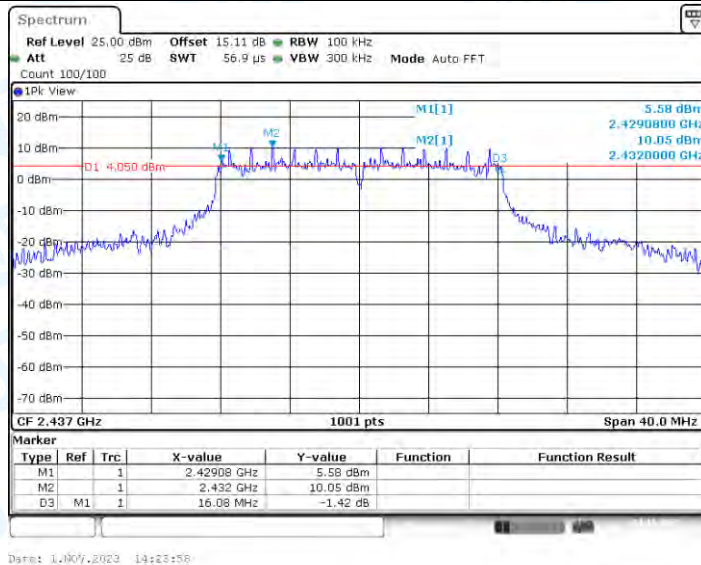
11G-SISO\_Ant1\_2412



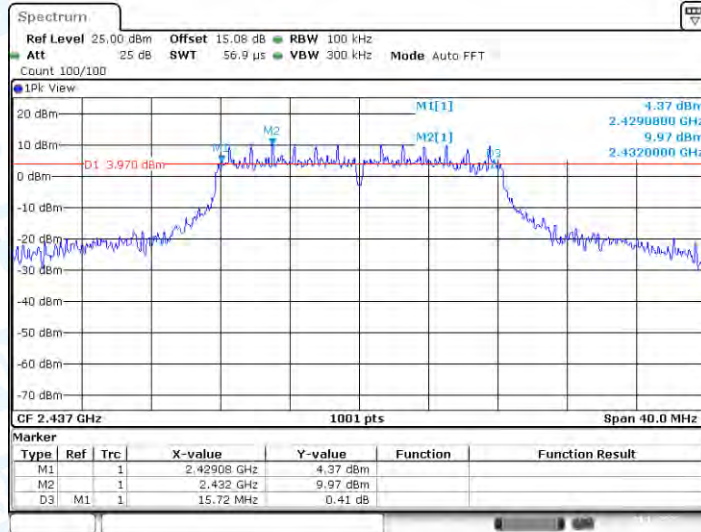
11G-SISO\_Ant2\_2412



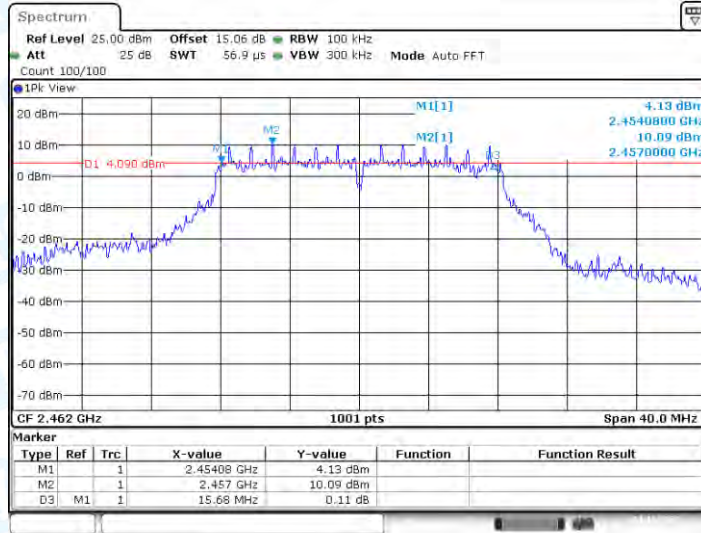
11G-SISO\_Ant1\_2437



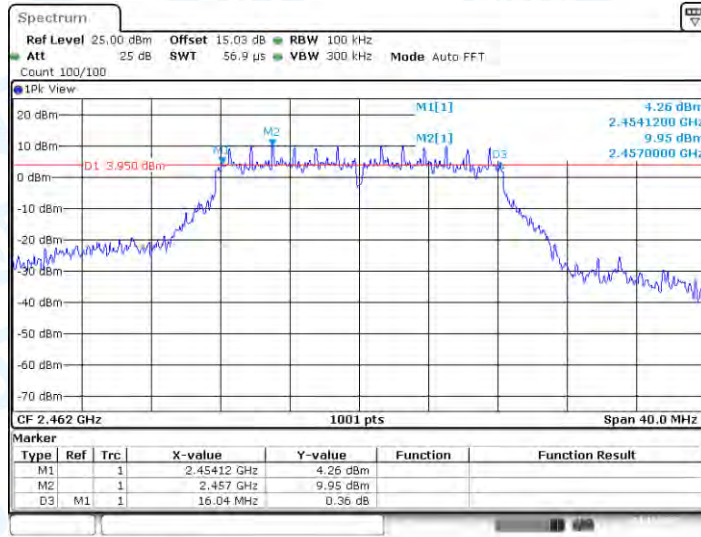
11G-SISO\_Ant2\_2437



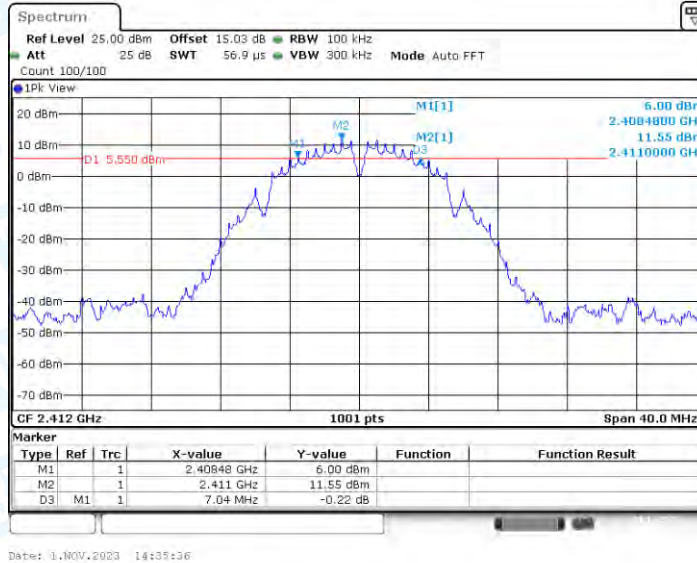
11G-SISO\_Ant1\_2462



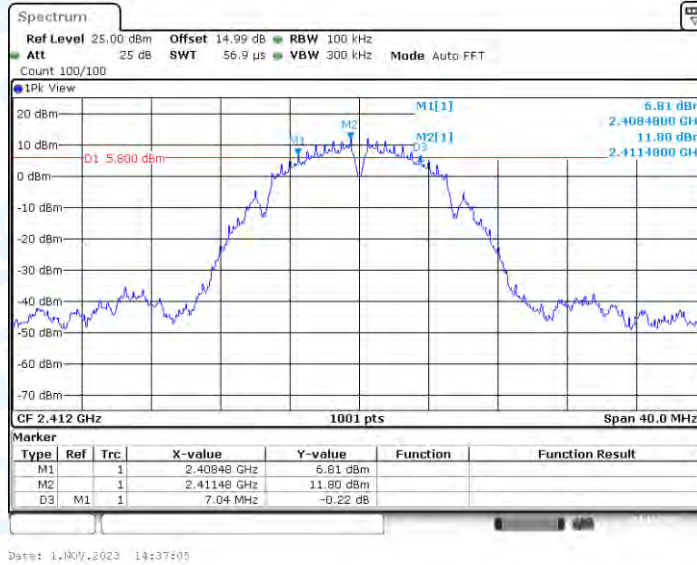
11G-SISO\_Ant2\_2462



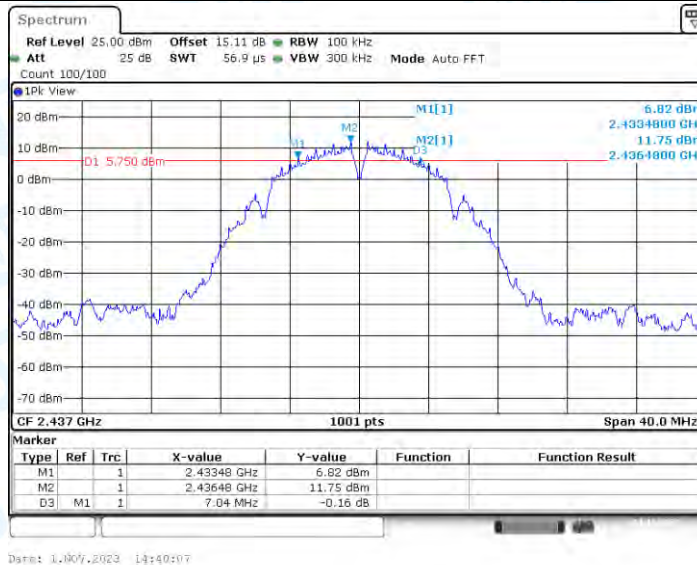
11B-CDD\_Ant1\_2412



11B-CDD\_Ant2\_2412



11B-CDD\_Ant1\_2437

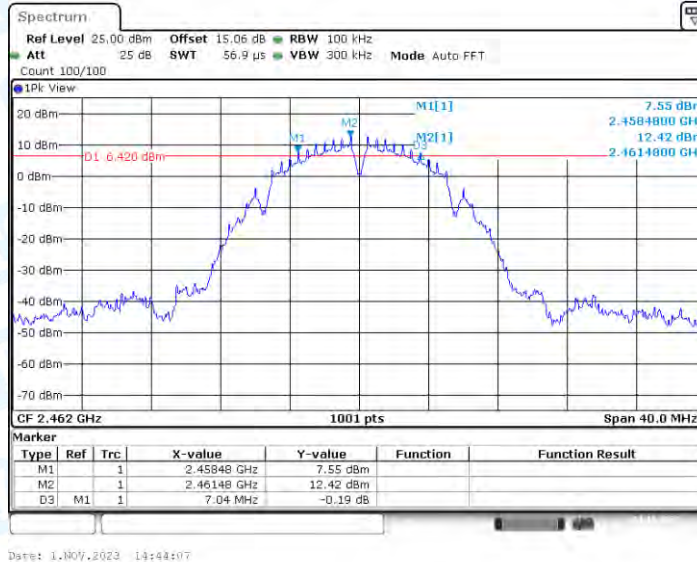




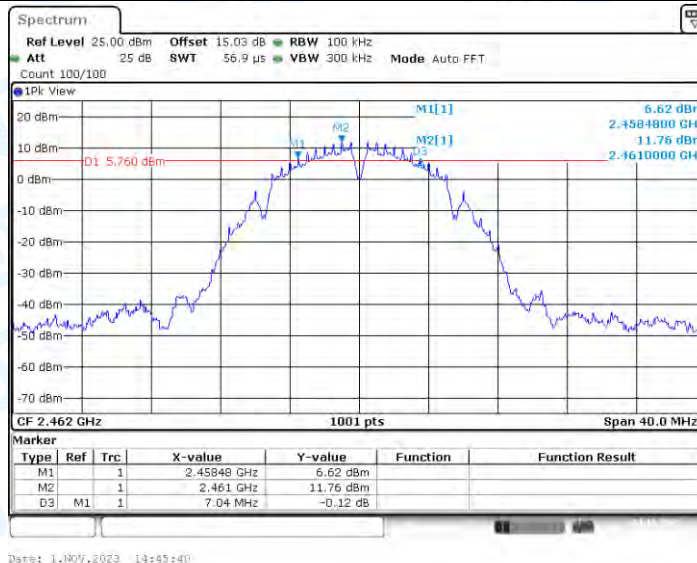
11B-CDD\_Ant2\_2437



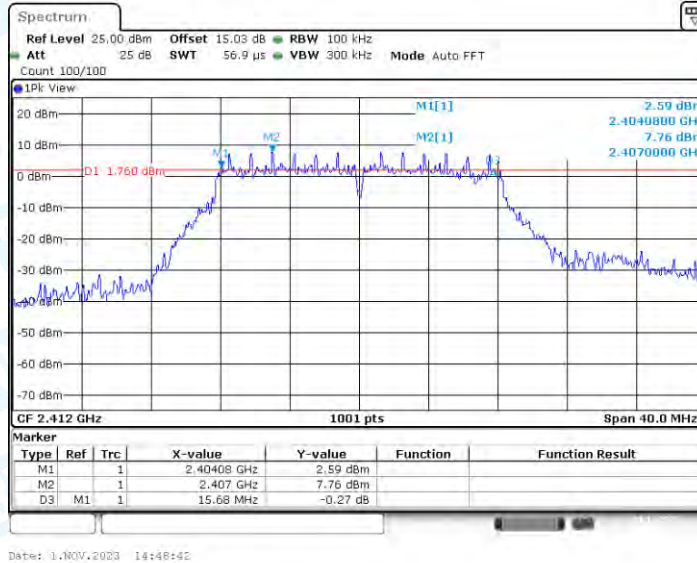
11B-CDD\_Ant1\_2462



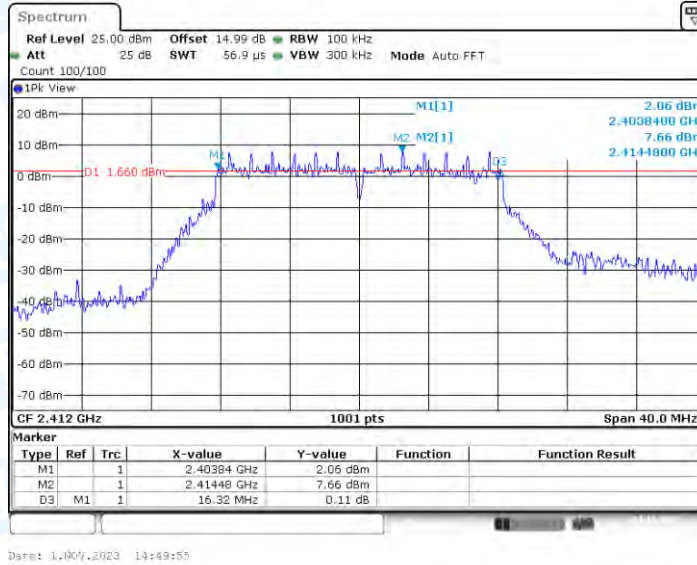
11B-CDD\_Ant2\_2462



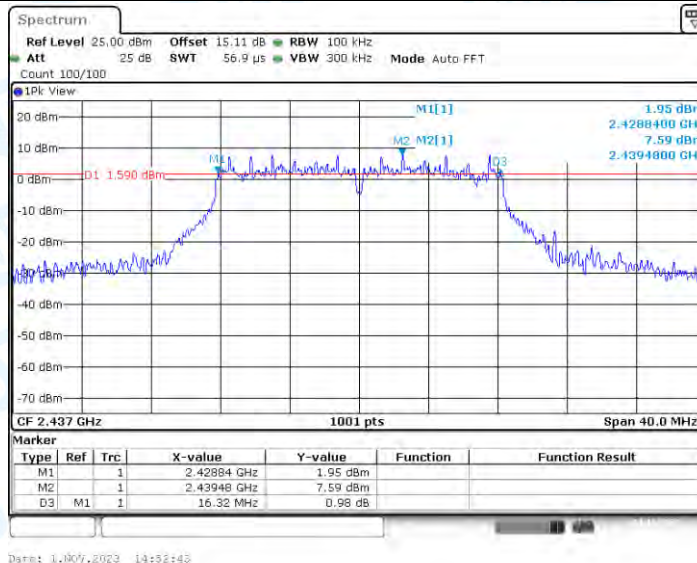
11G-CDD\_Ant1\_2412



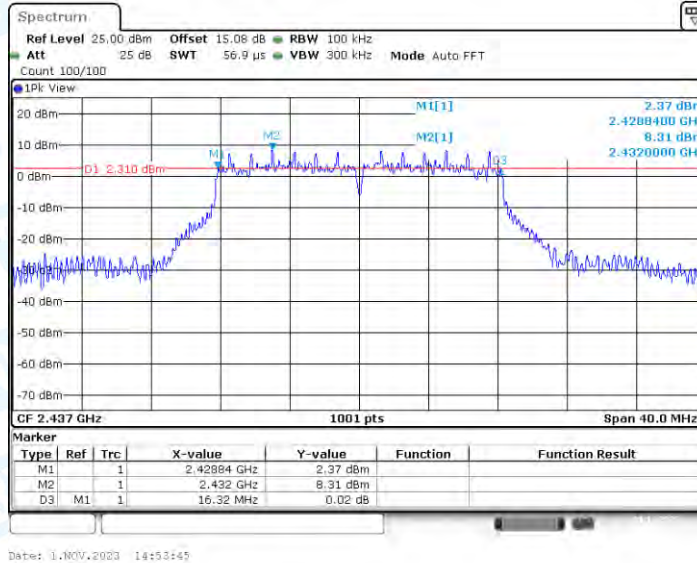
11G-CDD\_Ant2\_2412



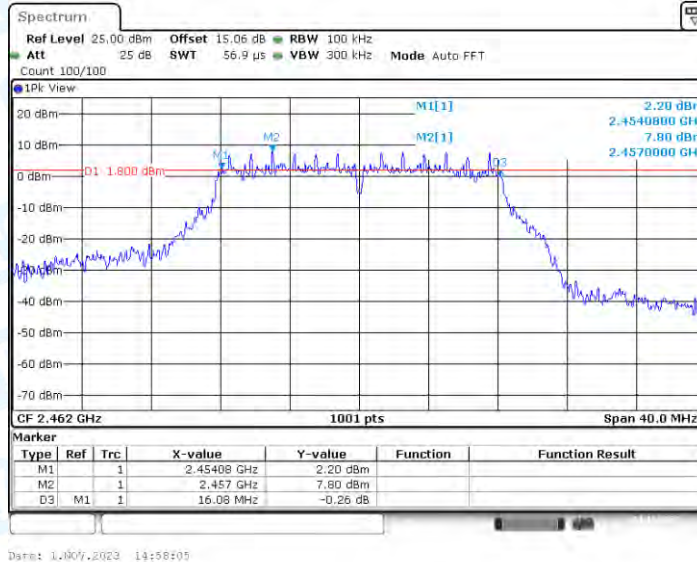
11G-CDD\_Ant1\_2437



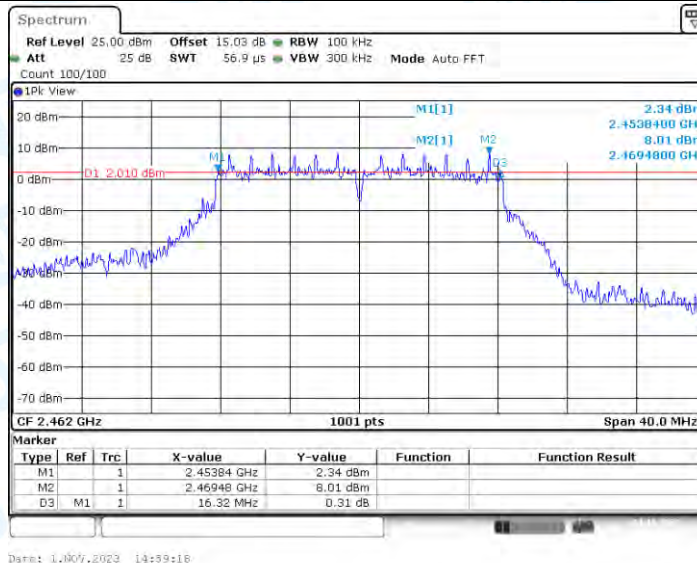
11G-CDD\_Ant2\_2437



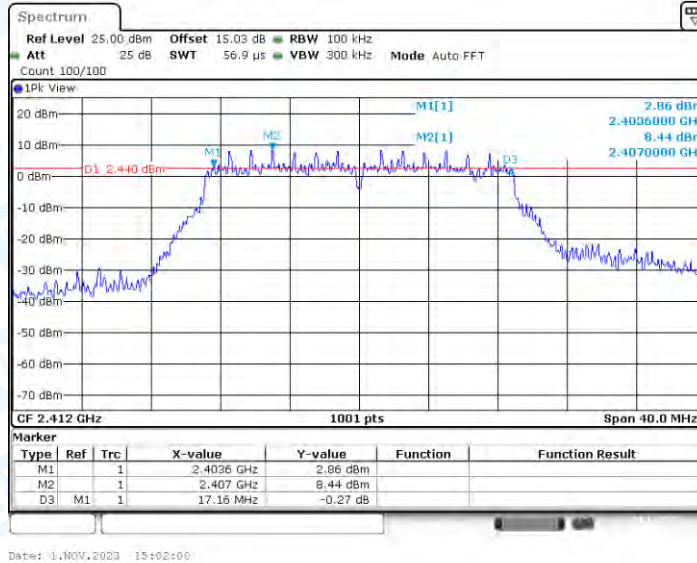
11G-CDD\_Ant1\_2462



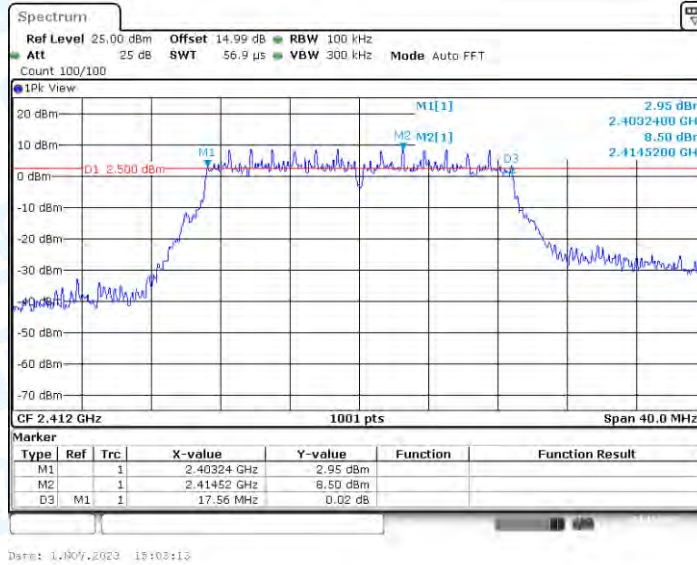
11G-CDD\_Ant2\_2462



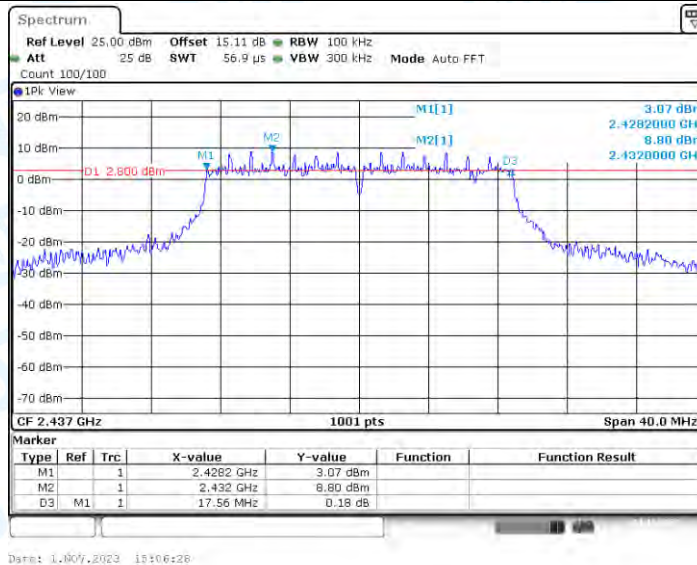
11N20-CDD\_Ant1\_2412



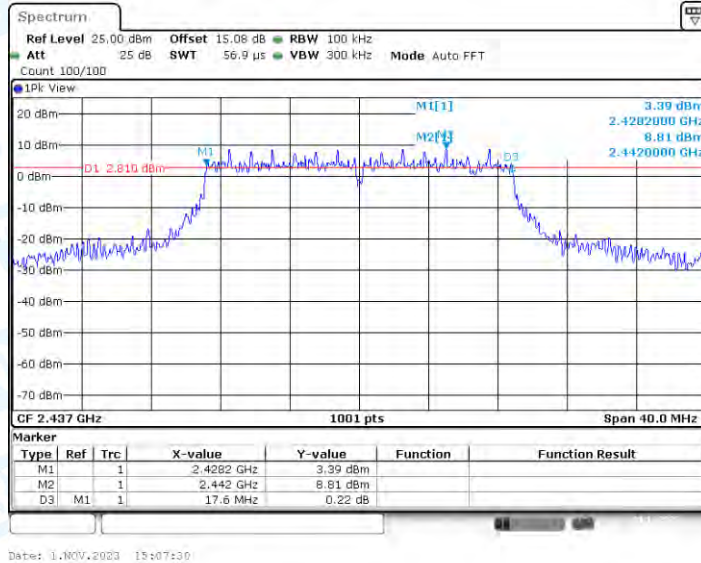
11N20-CDD\_Ant2\_2412



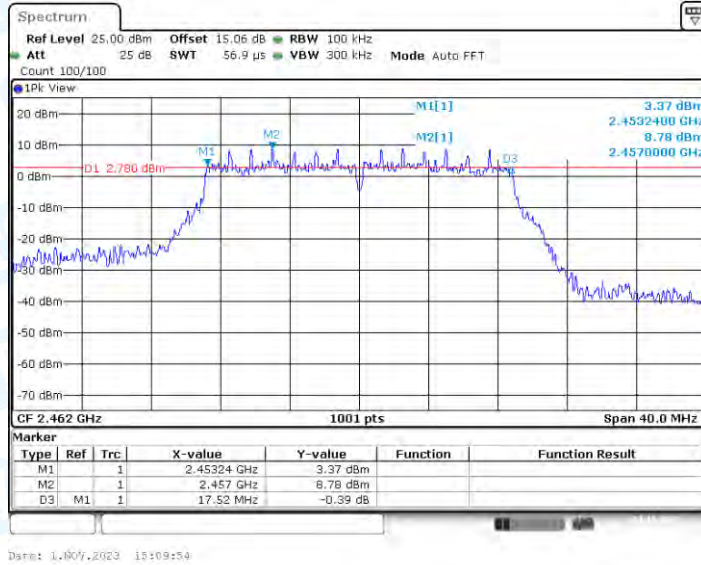
11N20-CDD\_Ant1\_2437



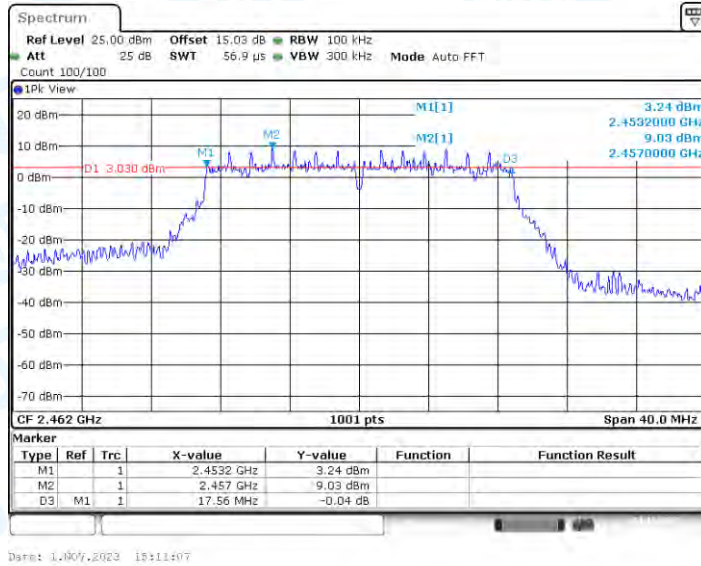
11N20-CDD\_Ant2\_2437



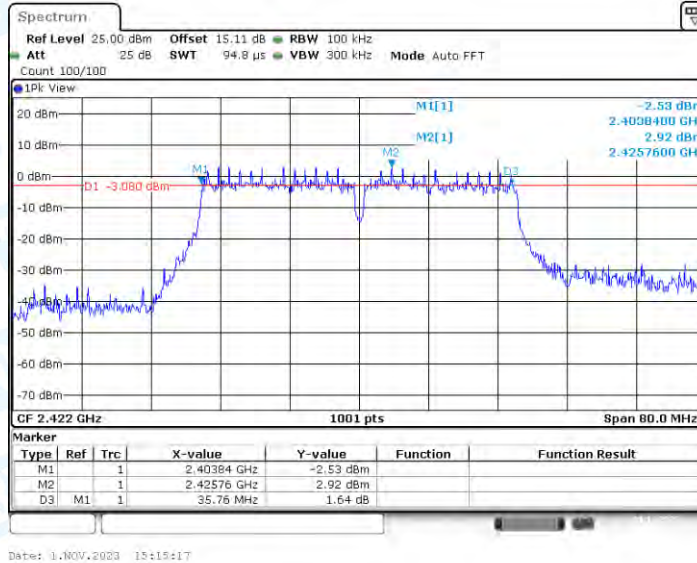
11N20-CDD\_Ant1\_2462



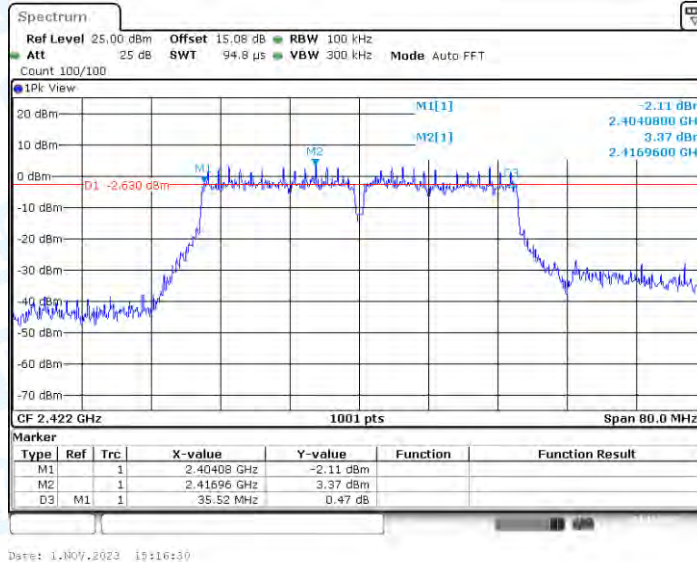
11N20-CDD\_Ant2\_2462



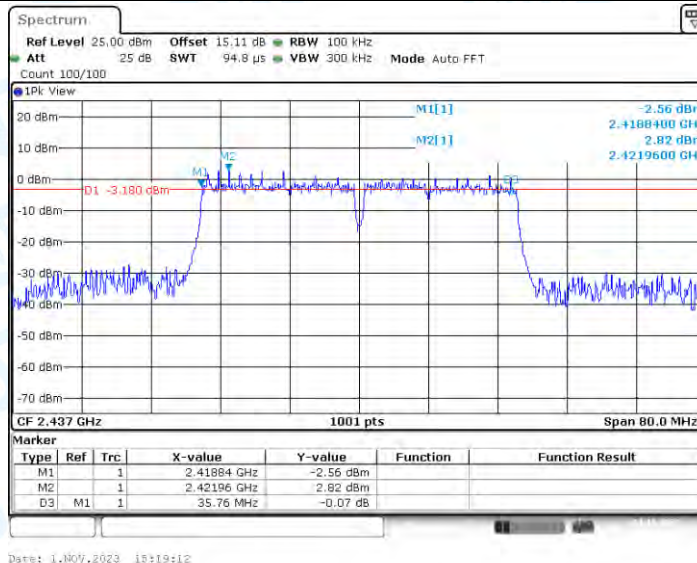
11N40-CDD\_Ant1\_2422



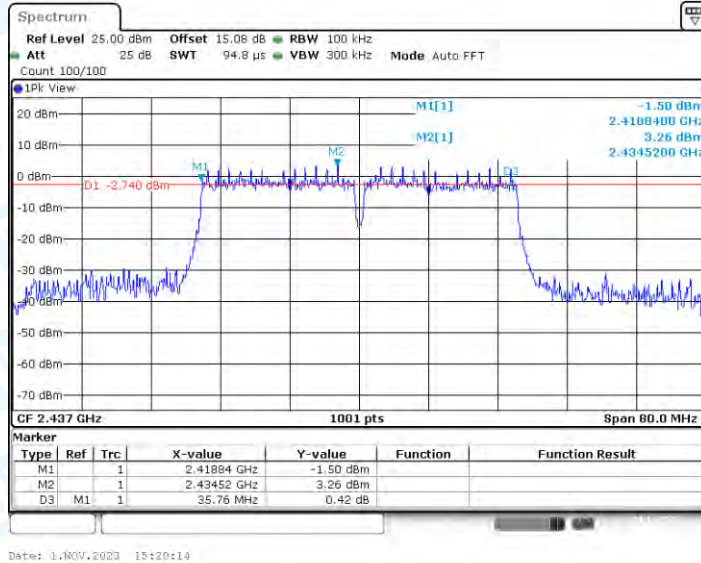
11N40-CDD\_Ant2\_2422



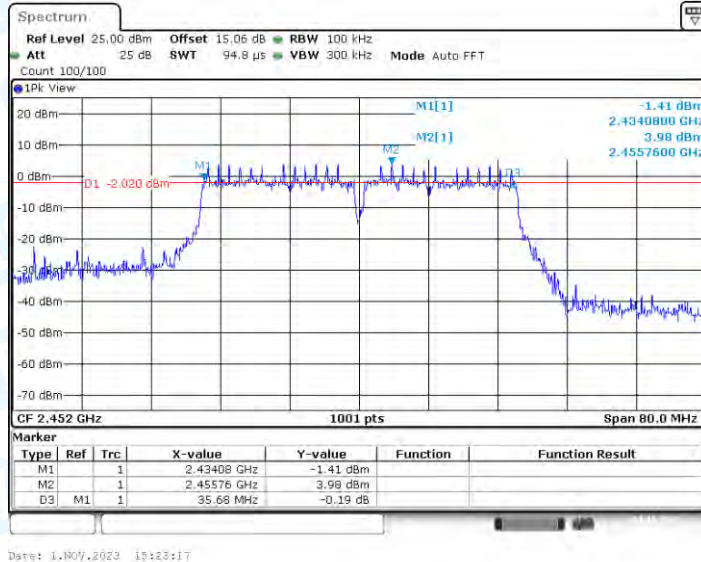
11N40-CDD\_Ant1\_2437



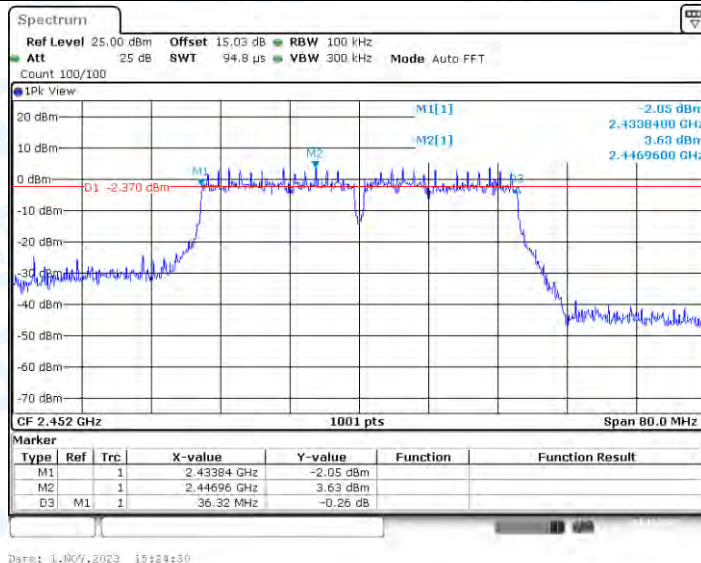
11N40-CDD\_Ant2\_2437



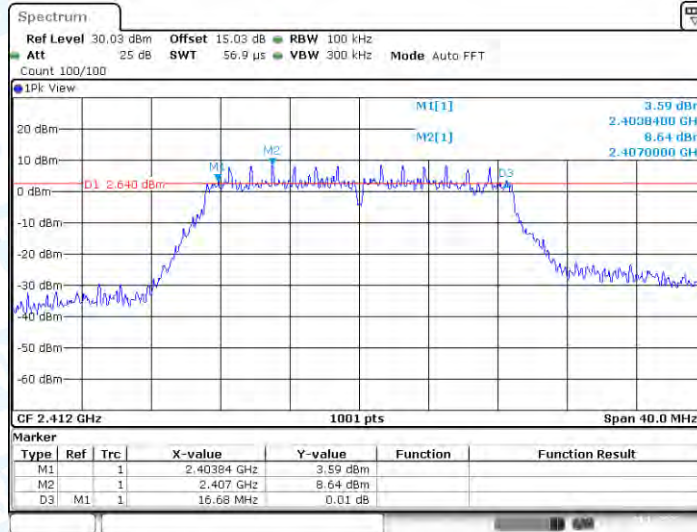
11N40-CDD\_Ant1\_2452



11N40-CDD\_Ant2\_2452

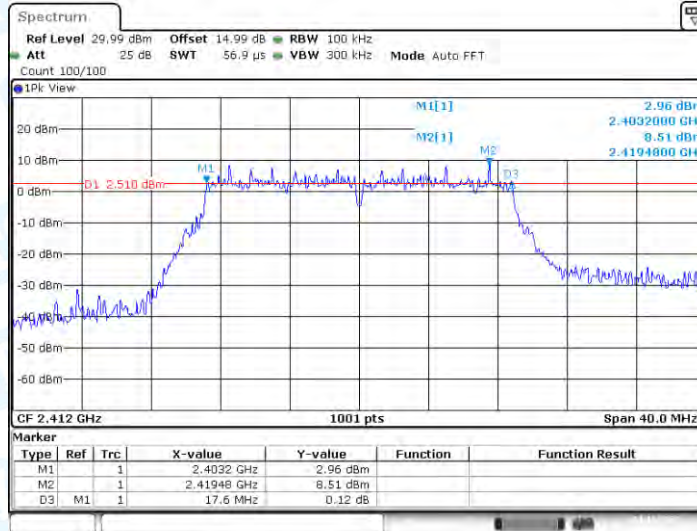


11N20MIMO\_Ant1\_2412



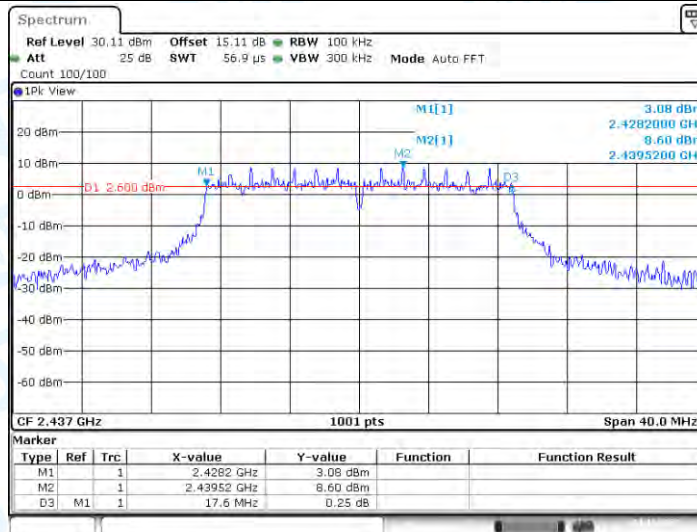
Date: 1.NOV.2023 17:43:32

11N20MIMO\_Ant2\_2412



Date: 1.NOV.2023 17:47:13

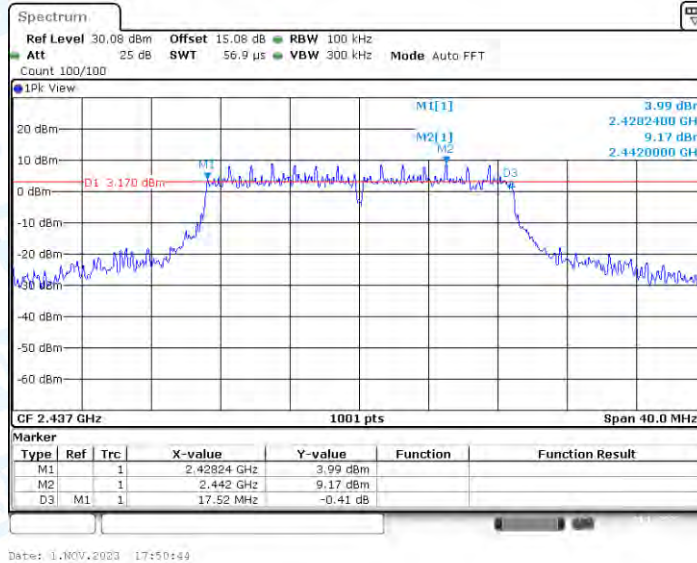
11N20MIMO\_Ant1\_2437



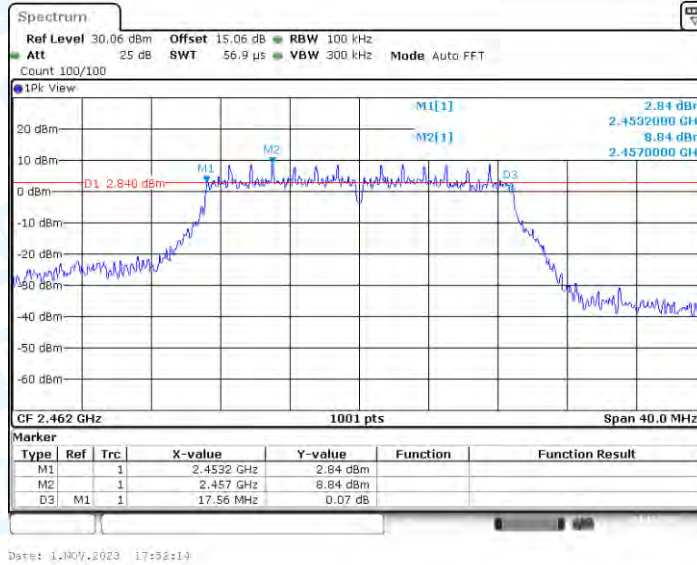
Date: 1.NOV.2023 17:49:57



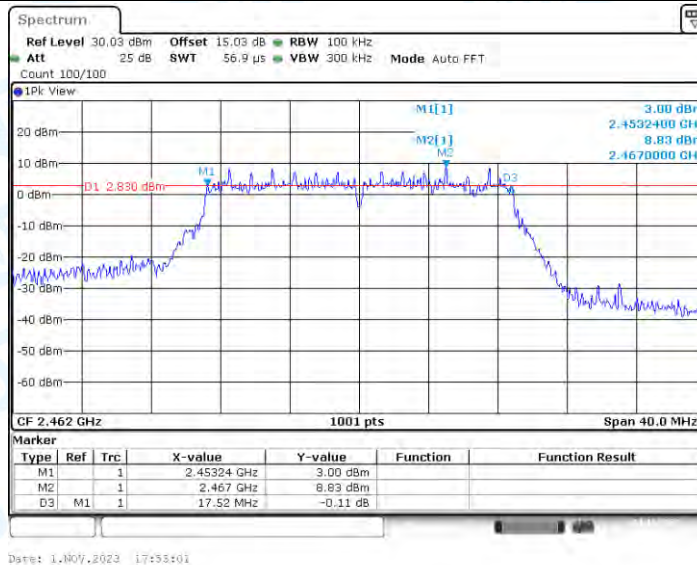
11N20MIMO\_Ant2\_2437



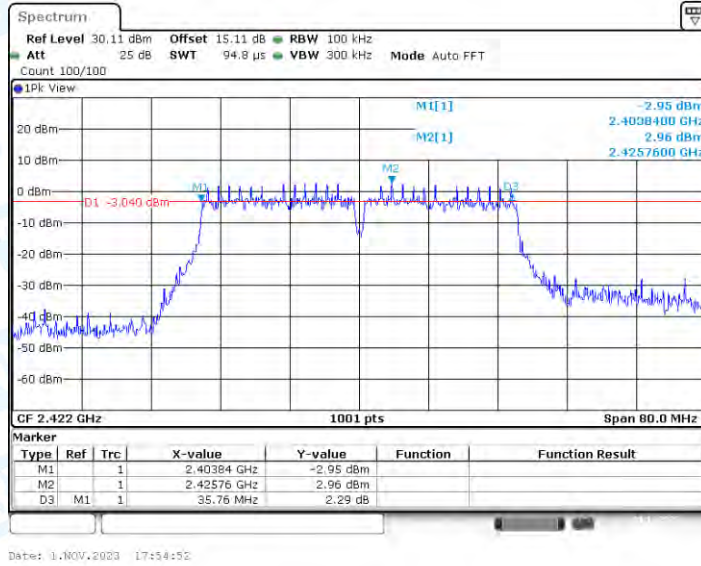
11N20MIMO\_Ant1\_2462



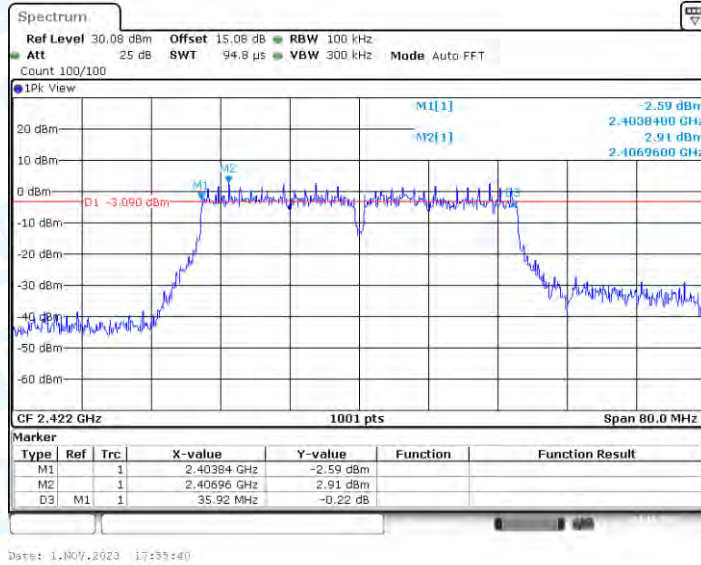
11N20MIMO\_Ant2\_2462



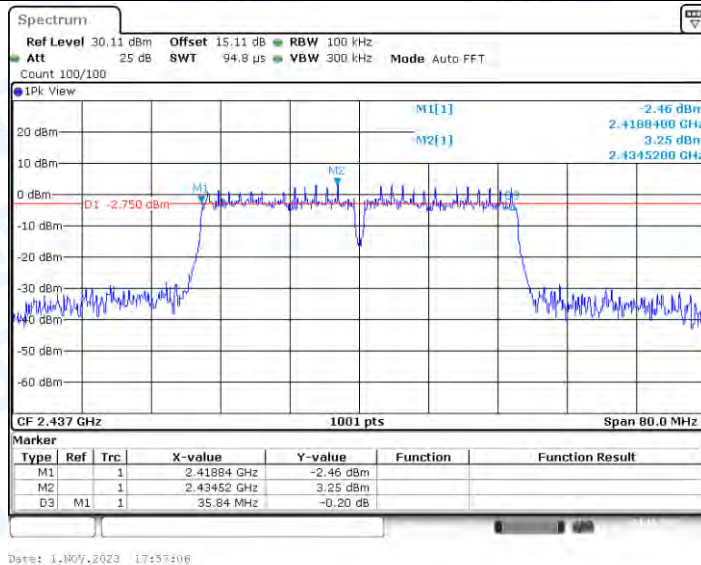
11N40MIMO\_Ant1\_2422



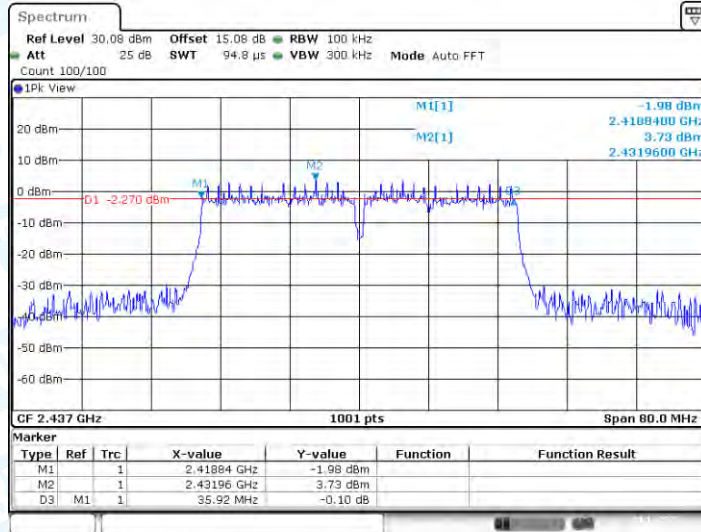
11N40MIMO\_Ant2\_2422



11N40MIMO\_Ant1\_2437

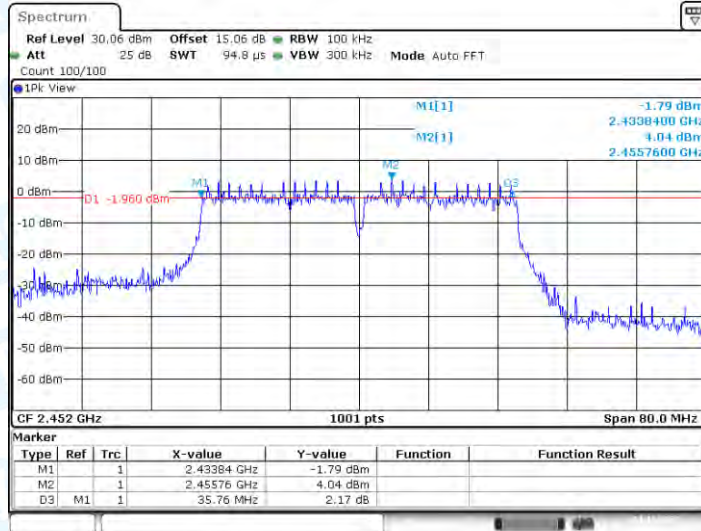


11N40MIMO\_Ant2\_2437



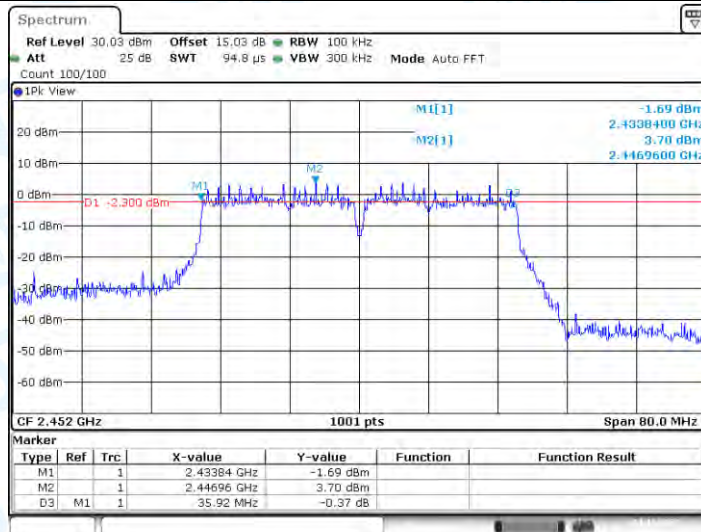
Date: 1. NOV. 2023 17:57:54

11N40MIMO\_Ant1\_2452



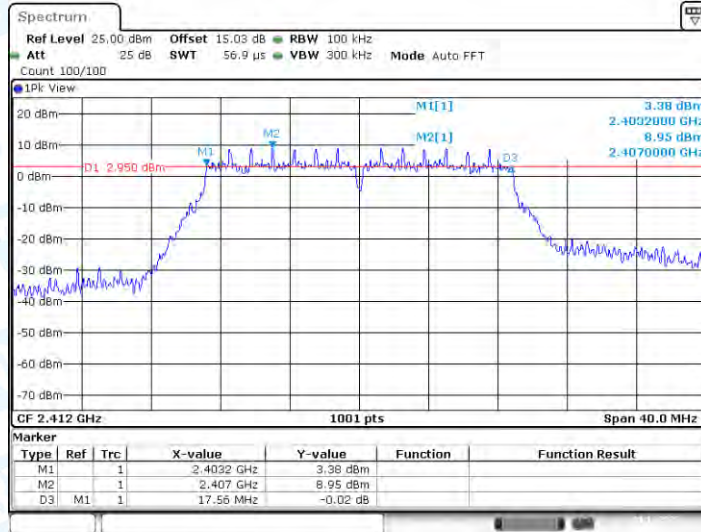
Date: 1. NOV. 2023 18:00:06

11N40MIMO\_Ant2\_2452

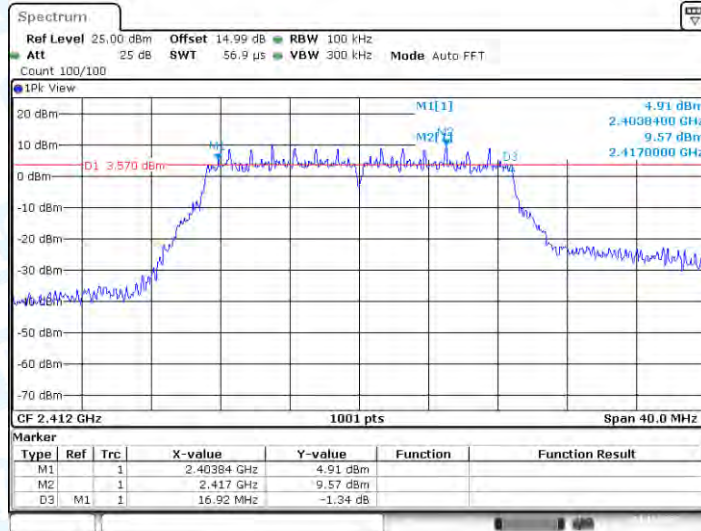


Date: 1. NOV. 2023 18:00:58

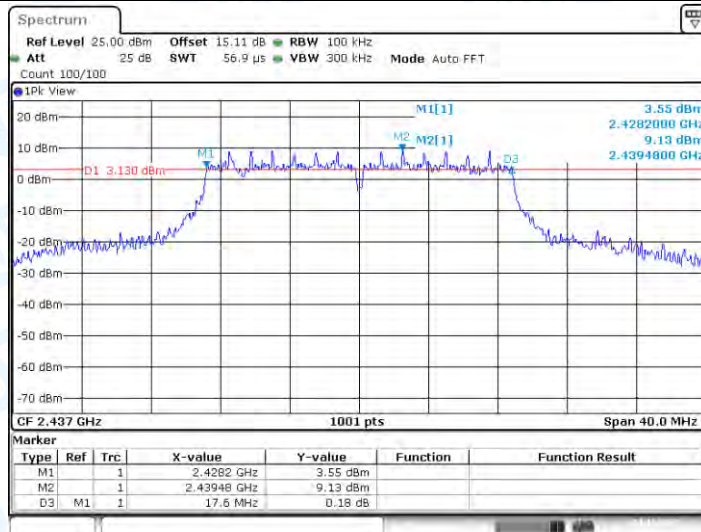
VHT20-CDD\_Ant1\_2412



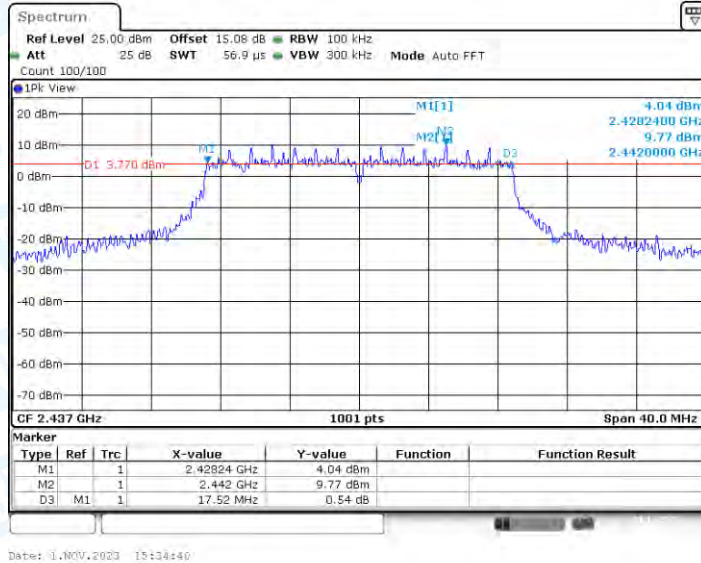
VHT20-CDD\_Ant2\_2412



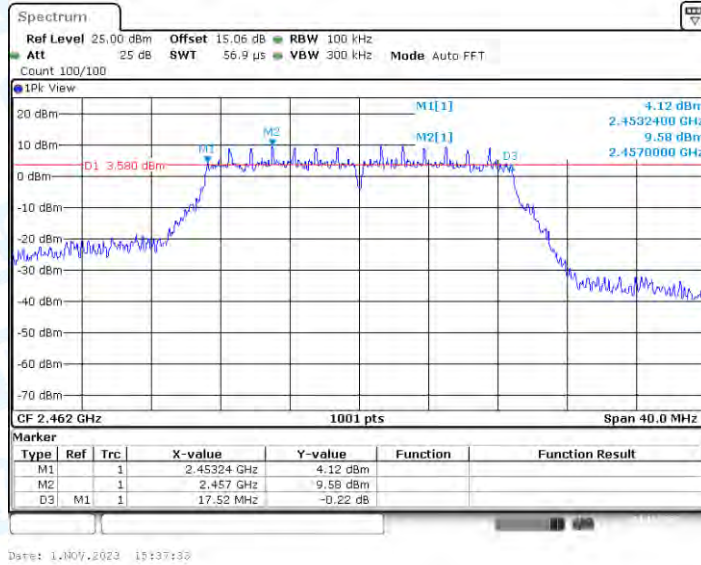
VHT20-CDD\_Ant1\_2437



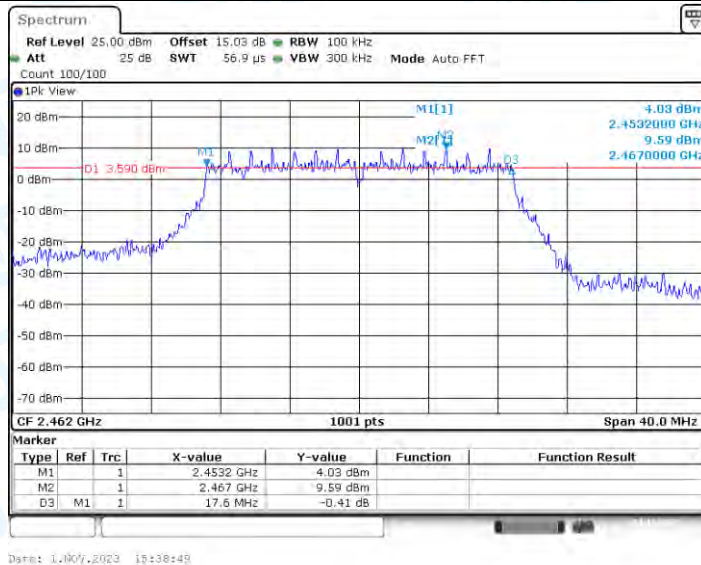
VHT20-CDD\_Ant2\_2437



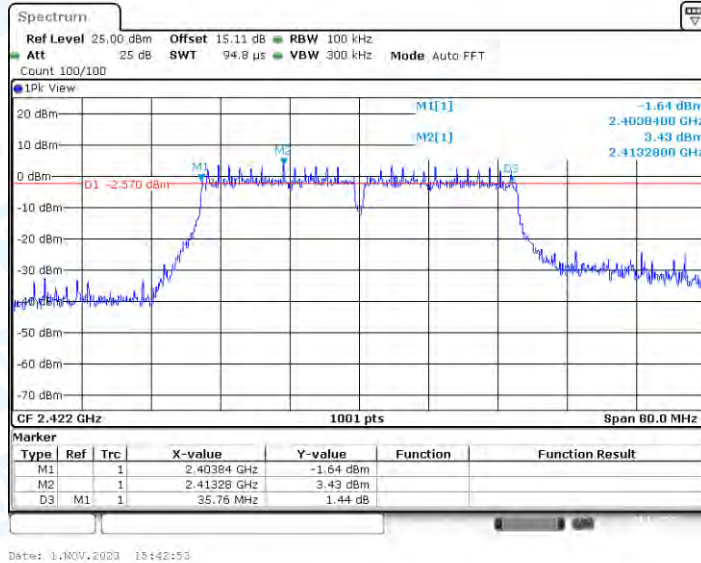
VHT20-CDD\_Ant1\_2462



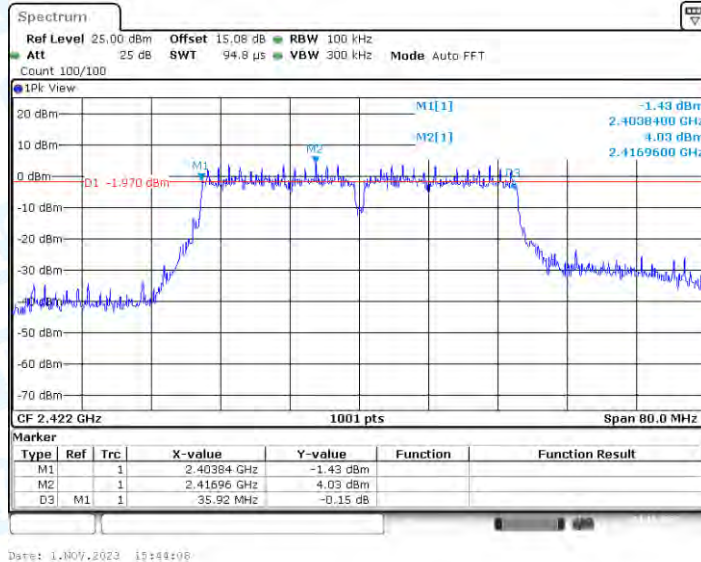
VHT20-CDD\_Ant2\_2462



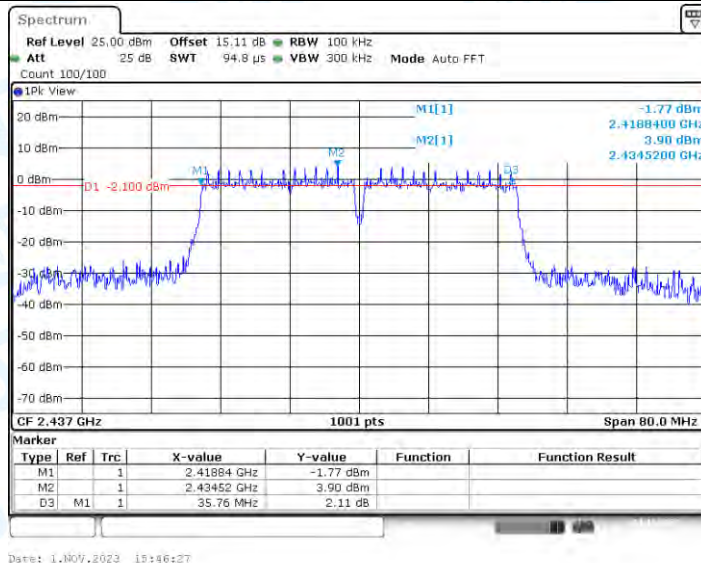
VHT40-CDD\_Ant1\_2422



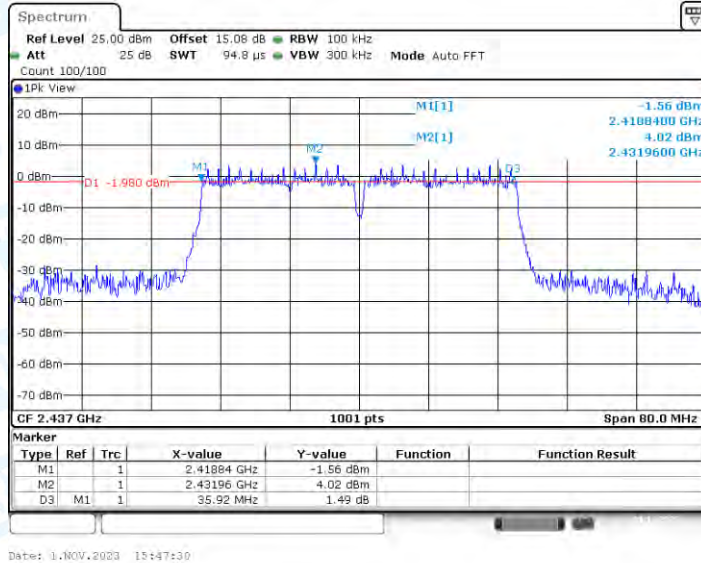
VHT40-CDD\_Ant2\_2422



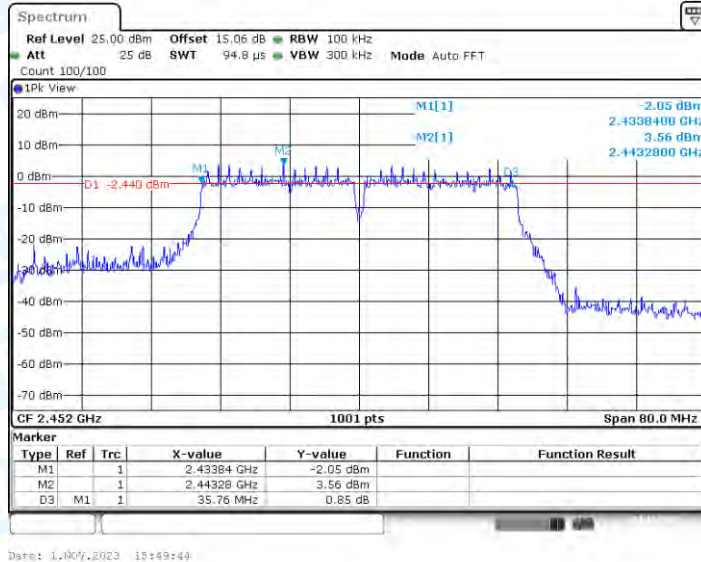
VHT40-CDD\_Ant1\_2437



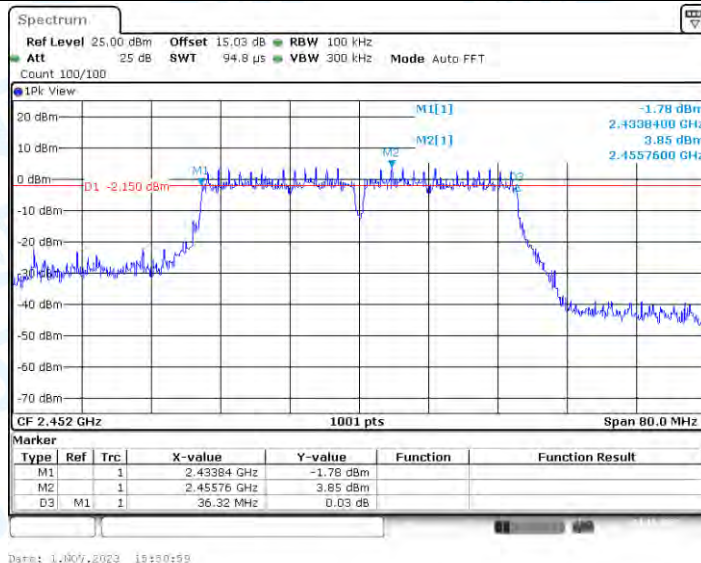
VHT40-CDD\_Ant2\_2437



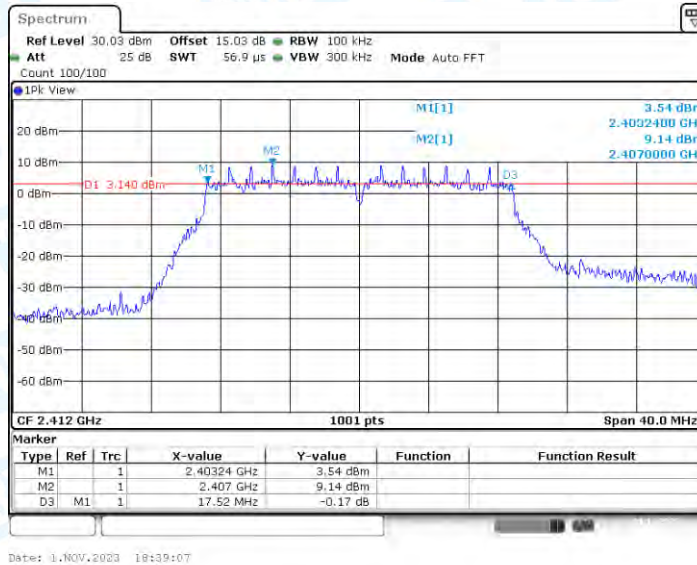
VHT40-CDD\_Ant1\_2452



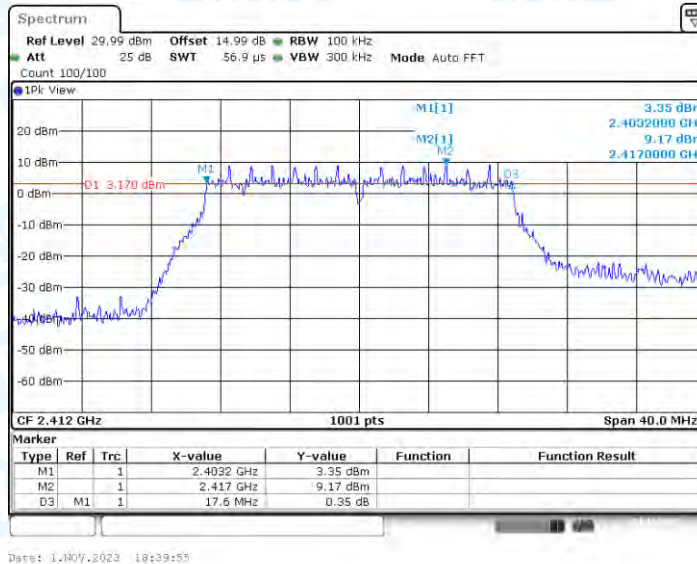
VHT40-CDD\_Ant2\_2452



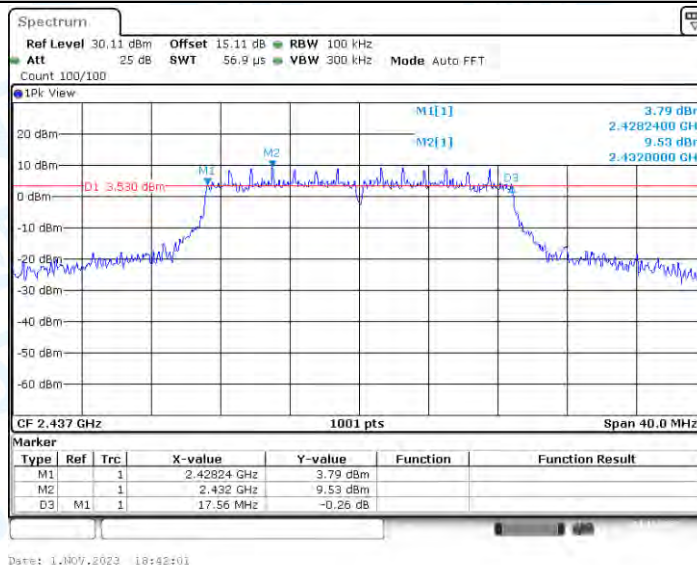
VHT20MIMO\_Ant1\_2412



VHT20MIMO\_Ant2\_2412

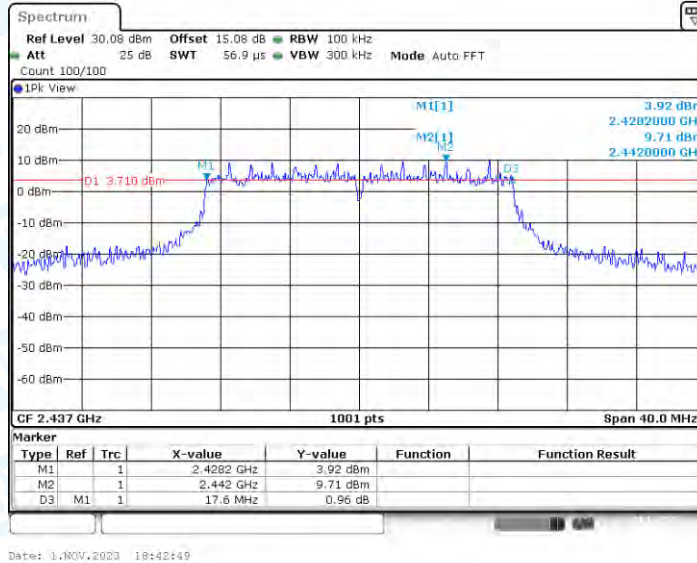


VHT20MIMO\_Ant1\_2437

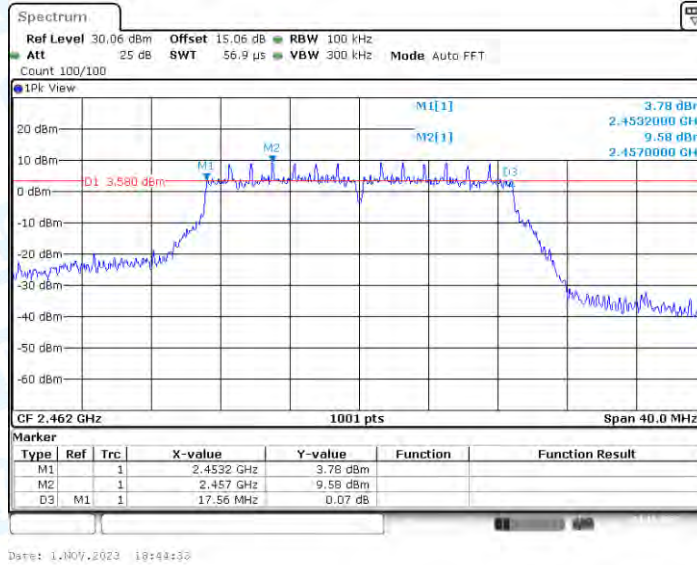




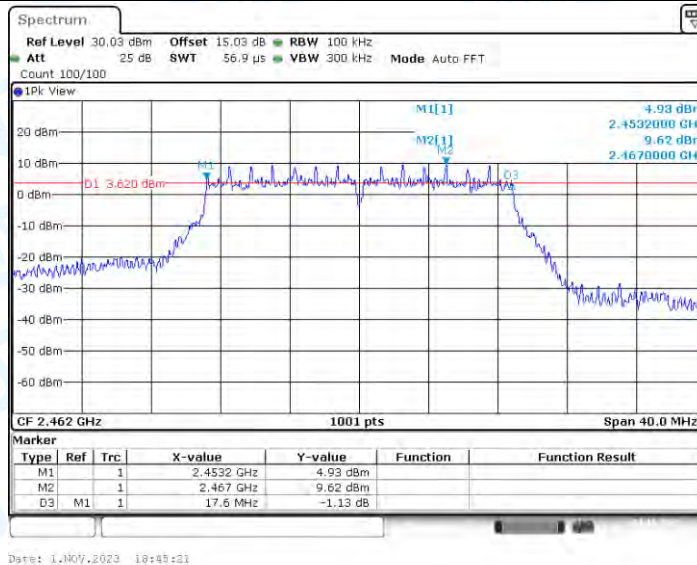
VHT20MIMO\_Ant2\_2437



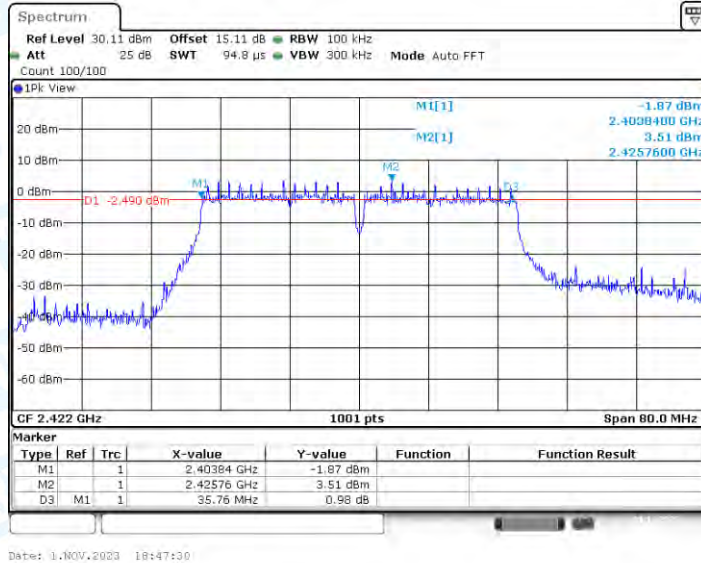
VHT20MIMO\_Ant1\_2462



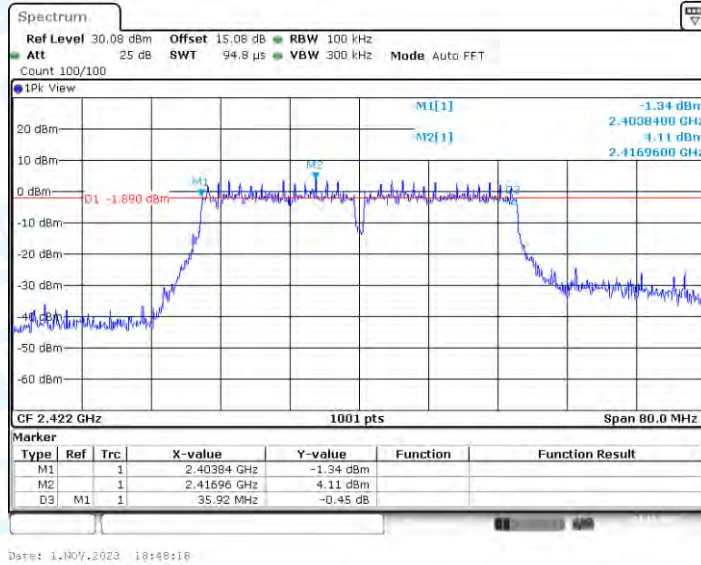
VHT20MIMO\_Ant2\_2462



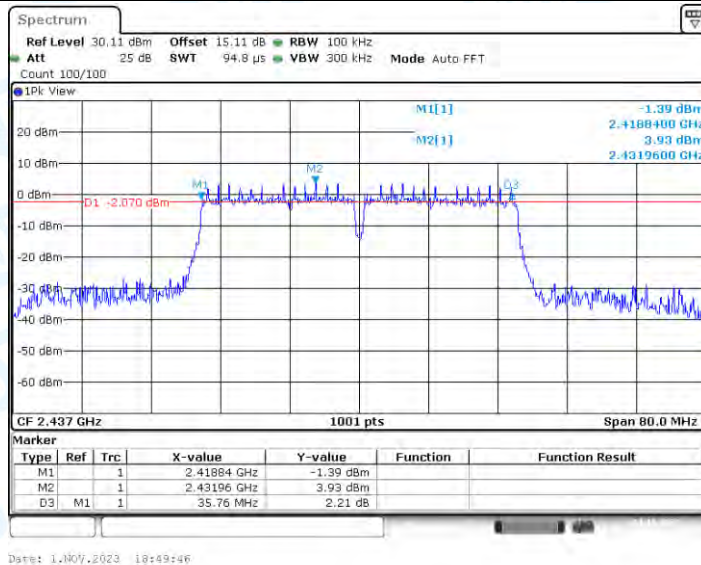
VHT40MIMO\_Ant1\_2422



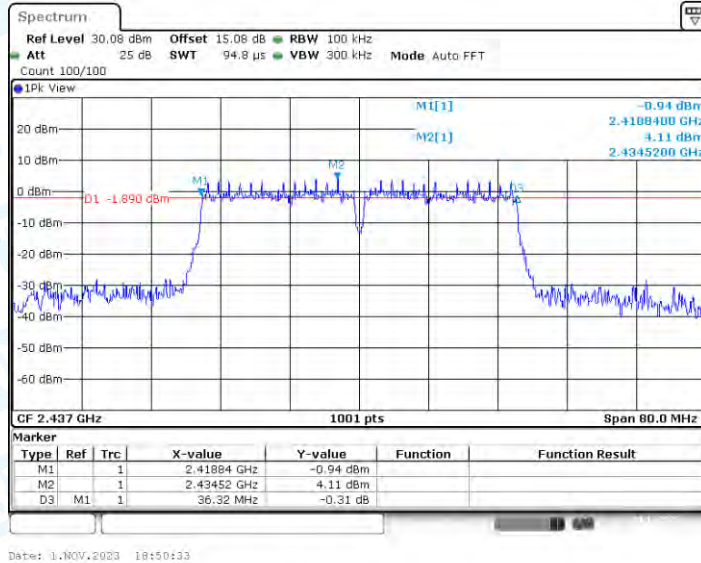
VHT40MIMO\_Ant2\_2422



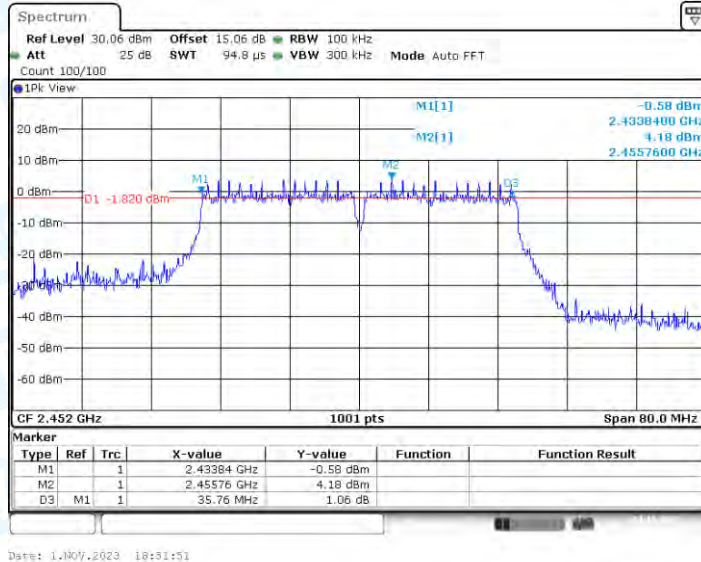
VHT40MIMO\_Ant1\_2437



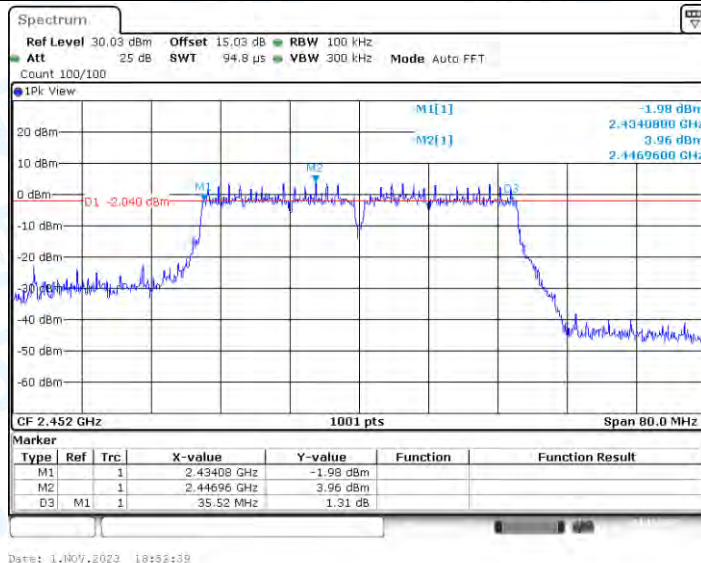
VHT40MIMO\_Ant2\_2437



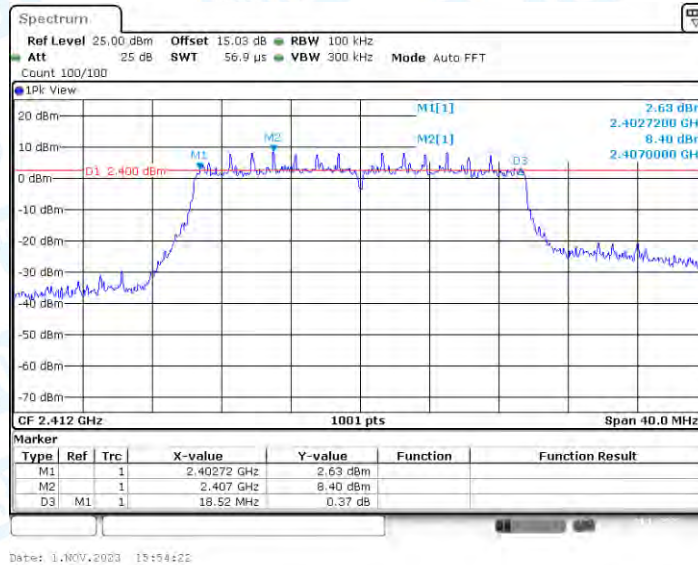
VHT40MIMO\_Ant1\_2452



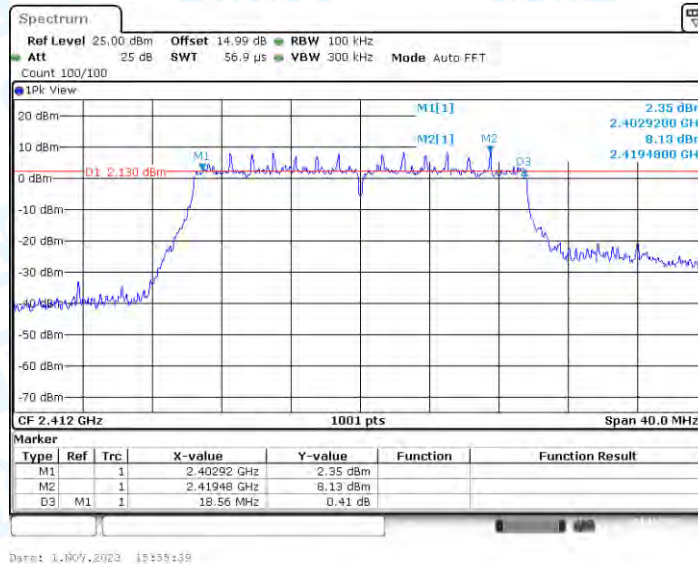
VHT40MIMO\_Ant2\_2452



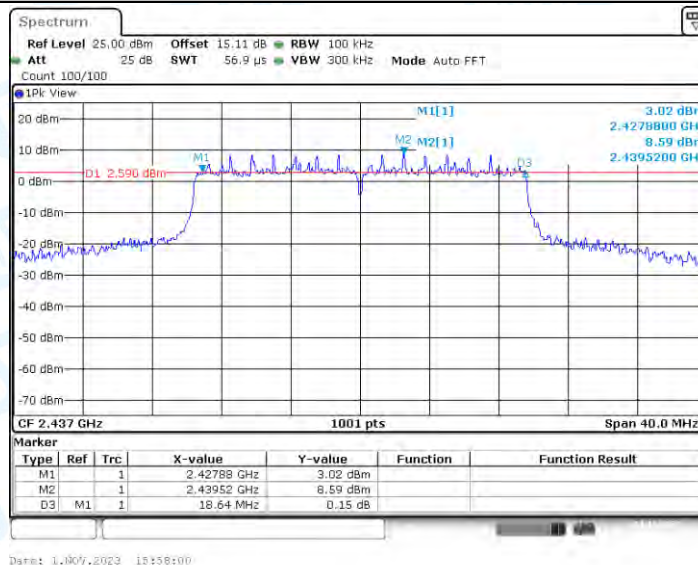
11AX20-CDD\_Ant1\_2412



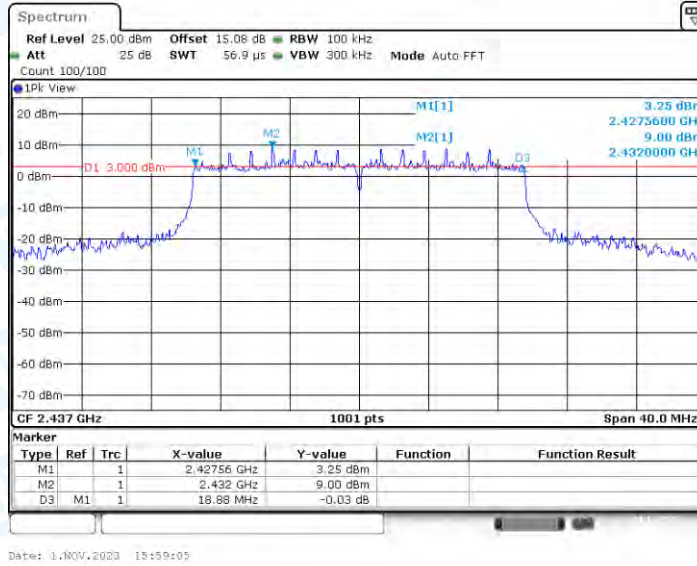
11AX20-CDD\_Ant2\_2412



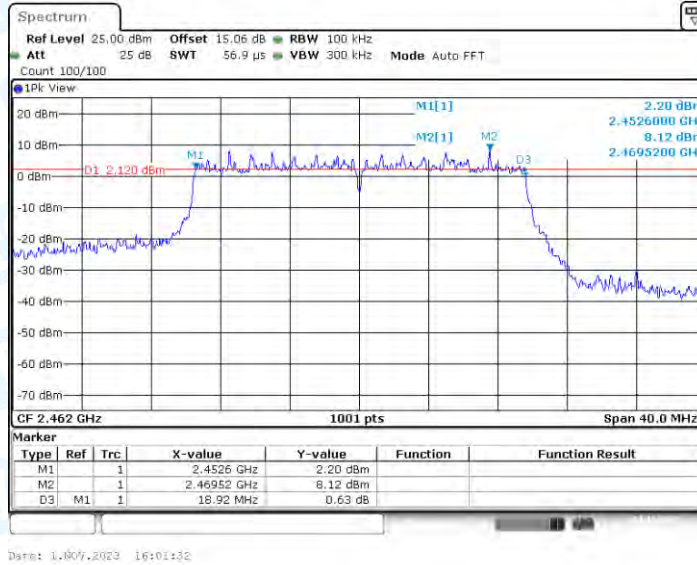
11AX20-CDD\_Ant1\_2437



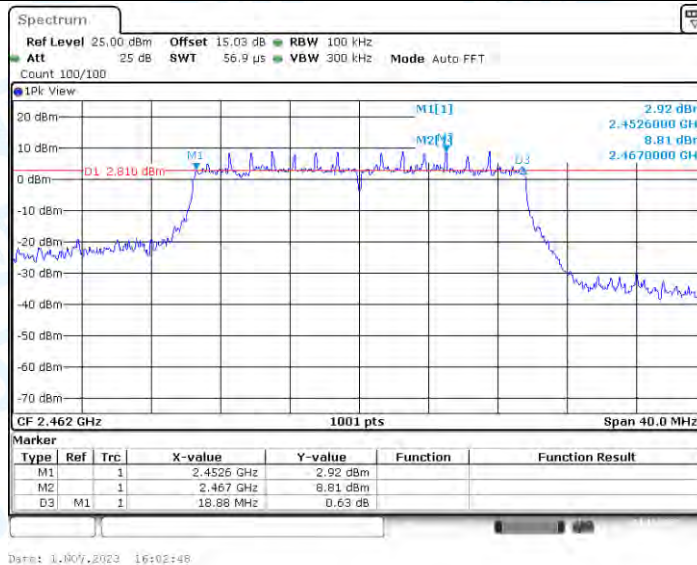
11AX20-CDD\_Ant2\_2437



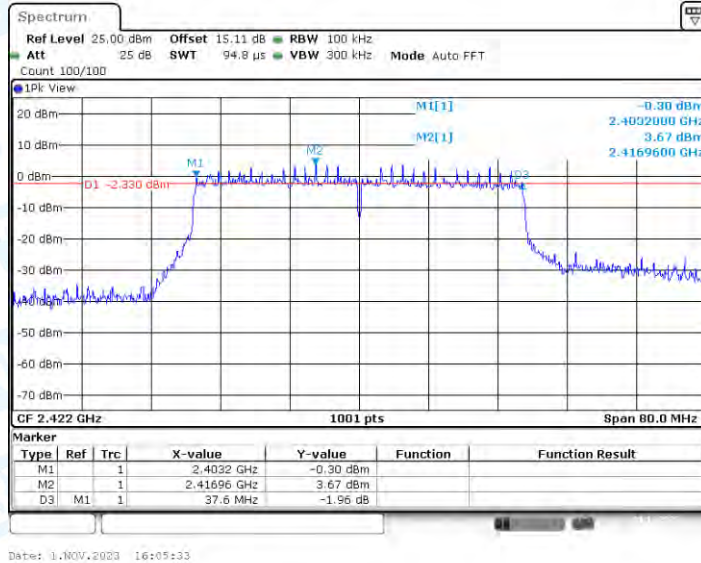
11AX20-CDD\_Ant1\_2462



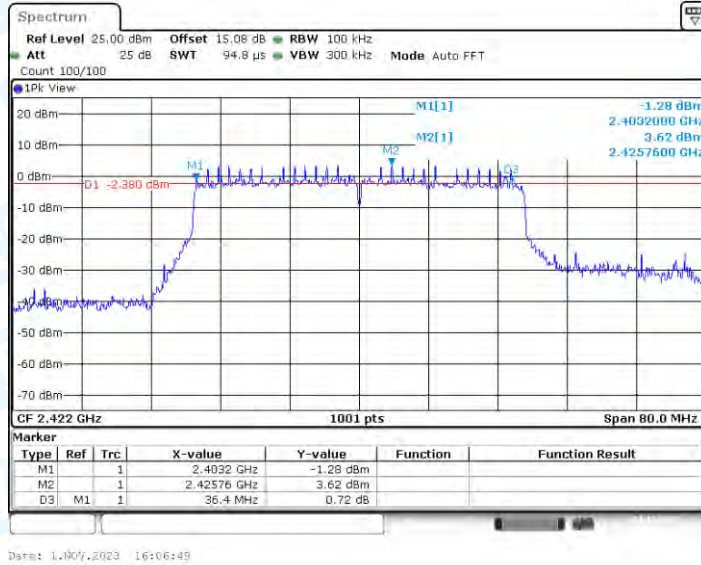
11AX20-CDD\_Ant2\_2462



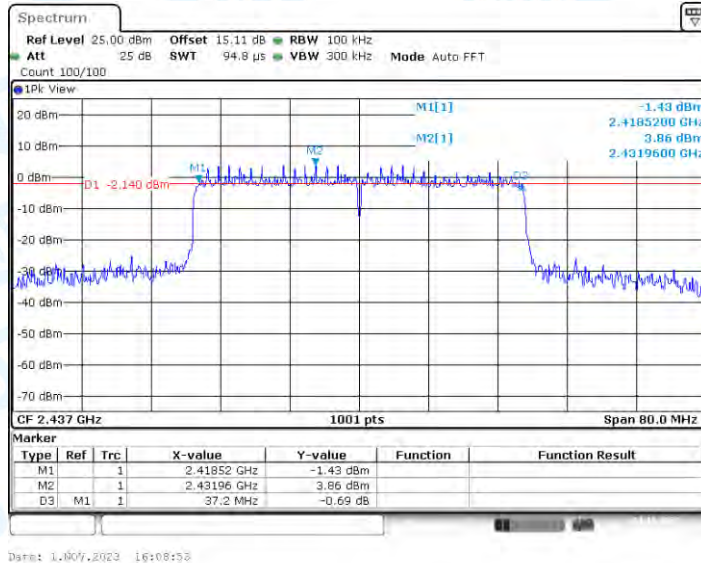
11AX40-CDD\_Ant1\_2422



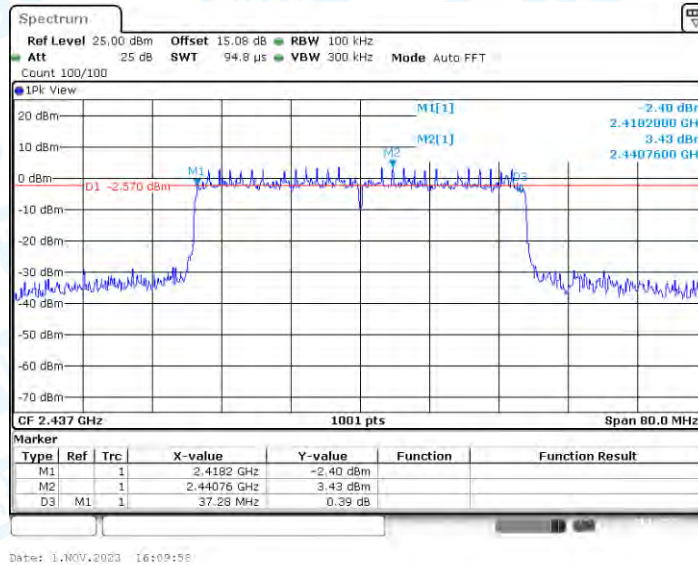
11AX40-CDD\_Ant2\_2422



11AX40-CDD\_Ant1\_2437



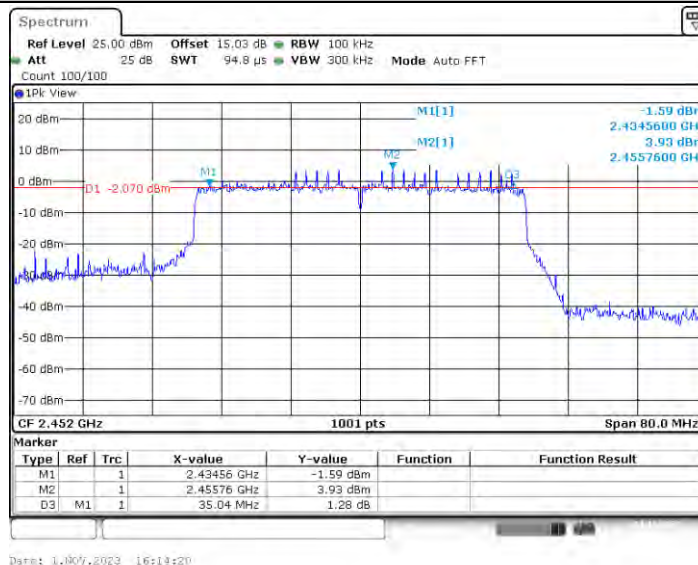
11AX40-CDD\_Ant2\_2437



11AX40-CDD\_Ant1\_2452



11AX40-CDD\_Ant2\_2452



## 2. Maximum conducted output power

### 2.1. Test Result

Test Mode	Antenna	Channel	Result[dBm]			Limit[dBm]		
			SISO	CDD	BF	SISO	CDD	BF
11B	Ant1	2412	22.19	20.65	/	≤30.00	≤30.00	/
	Ant2	2412	22.66	20.81	/	≤30.00	≤30.00	/
	total	2412		23.74	/	/	≤30.00	/
	Ant1	2437	22.21	20.74	/	≤30.00	≤30.00	/
	Ant2	2437	22.96	20.82	/	≤30.00	≤30.00	/
	total	2437		23.79	/	/	≤30.00	/
	Ant1	2462	22.76	20.96	/	≤30.00	≤30.00	/
	Ant2	2462	22.91	20.91	/	≤30.00	≤30.00	/
total	2462		23.95	/	/	≤30.00	/	
11G	Ant1	2412	22.01	20.46	19.02	≤30.00	≤30.00	≤30.00
	Ant2	2412	22.09	20.54	19.45	≤30.00	≤30.00	≤30.00
	total	2412		23.51	22.25	/	≤30.00	≤29.32
	Ant1	2437	22.20	21.02	19.66	≤30.00	≤30.00	≤30.00
	Ant2	2437	22.80	21.25	20.13	≤30.00	≤30.00	≤30.00
	total	2437		24.15	22.91	/	≤30.00	≤29.32
	Ant1	2462	22.31	20.70	19.63	≤30.00	≤30.00	≤30.00
	Ant2	2462	22.46	20.81	19.40	≤30.00	≤30.00	≤30.00
total	2462	/	23.77	22.53	/	≤30.00	≤29.32	
11N20	Ant1	2412	/	20.50	19.87	/	≤30.00	≤30.00
	Ant2	2412	/	20.71	20.06	/	≤30.00	≤30.00
	total	2412	/	23.62	22.98	/	≤30.00	≤29.32
	Ant1	2437	/	20.93	20.47	/	≤30.00	≤30.00
	Ant2	2437	/	21.30	20.58	/	≤30.00	≤30.00
	total	2437	/	24.13	23.54	/	≤30.00	≤29.32
	Ant1	2462	/	20.89	20.27	/	≤30.00	≤30.00
	Ant2	2462	/	20.74	20.23	/	≤30.00	≤30.00
total	2462	/	23.83	23.26	/	≤30.00	≤29.32	
11N40	Ant1	2422	/	18.53	17.61	/	≤30.00	≤30.00
	Ant2	2422	/	18.54	17.65	/	≤30.00	≤30.00
	total	2422	/	21.55	20.64	/	≤30.00	≤29.32
	Ant1	2437	/	19.00	18.24	/	≤30.00	≤30.00
	Ant2	2437	/	19.17	18.02	/	≤30.00	≤30.00
	total	2437	/	22.10	21.14	/	≤30.00	≤29.32
	Ant1	2452	/	18.91	18.72	/	≤30.00	≤30.00
	Ant2	2452	/	18.80	18.65	/	≤30.00	≤30.00
total	2452	/	21.87	21.70	/	≤30.00	≤29.32	
VHT20	Ant1	2412	/	20.88	20.49	/	≤30.00	≤30.00
	Ant2	2412	/	21.17	20.81	/	≤30.00	≤30.00
	total	2412	/	24.04	23.66	/	≤30.00	≤29.32
	Ant1	2437	/	21.65	21.02	/	≤30.00	≤30.00
	Ant2	2437	/	21.91	21.32	/	≤30.00	≤30.00
	total	2437	/	24.79	24.18	/	≤30.00	≤29.32
	Ant1	2462	/	21.29	20.87	/	≤30.00	≤30.00
	Ant2	2462	/	21.25	20.88	/	≤30.00	≤30.00
total	2462	/	24.28	23.89	/	≤30.00	≤29.32	
VHT40	Ant1	2422	/	18.76	18.16	/	≤30.00	≤30.00
	Ant2	2422	/	18.88	18.20	/	≤30.00	≤30.00
	total	2422	/	21.83	21.19	/	≤30.00	≤29.32
	Ant1	2437	/	19.55	18.68	/	≤30.00	≤30.00
	Ant2	2437	/	19.51	18.97	/	≤30.00	≤30.00
	total	2437	/	22.54	21.84	/	≤30.00	≤29.32
	Ant1	2452	/	18.96	18.91	/	≤30.00	≤30.00
	Ant2	2452	/	19.04	18.71	/	≤30.00	≤30.00
total	2452	/	22.01	21.82	/	≤30.00	≤29.32	
11AX20	Ant1	2412	/	20.90	19.89	/	≤30.00	≤30.00
	Ant2	2412	/	21.21	20.04	/	≤30.00	≤30.00
	total	2412	/	24.07	22.98	/	≤30.00	≤29.32
	Ant1	2437	/	21.66	20.67	/	≤30.00	≤30.00
	Ant2	2437	/	21.83	20.92	/	≤30.00	≤30.00
	total	2437	/	24.76	23.81	/	≤30.00	≤29.32
	Ant1	2462	/	21.28	20.20	/	≤30.00	≤30.00
	Ant2	2462	/	21.39	20.31	/	≤30.00	≤30.00



11AX40	total	2462	/	24.35	23.27	/	≤30.00	≤29.32
	Ant1	2422	/	19.10	18.31	/	≤30.00	≤30.00
	Ant2	2422	/	19.06	18.25	/	≤30.00	≤30.00
	total	2422	/	22.09	21.29	/	≤30.00	≤29.32
	Ant1	2437	/	19.87	18.92	/	≤30.00	≤30.00
	Ant2	2437	/	19.96	18.89	/	≤30.00	≤30.00
	total	2437	/	22.93	21.92	/	≤30.00	≤29.32
	Ant1	2452	/	19.35	19.10	/	≤30.00	≤30.00
	Ant2	2452	/	19.15	19.09	/	≤30.00	≤30.00
	total	2452	/	22.26	22.11	/	≤30.00	≤29.32

Note: For CDD Mode, Directional gain =  $G_{ANT} + \text{Array Gain}$ , Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;  $G_{ANT1}=3.92\text{dBi}$ ;  $G_{ANT2}=3.42\text{dBi}$ ; **CDD Mode** use max. antenna Gain, So the Directional gain < 6dBi, So the  $P_{\text{limit}}=30\text{dBm}$ .  
 For BF Mode, Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2]=6.68\text{dBi}$ ;  $G_{ANT1}=3.92\text{dBi}$ ;  $G_{ANT2}=3.42\text{dBi}$ ; and the Directional gain > 6dBi, So the  $P_{\text{limit}}=P_{\text{limit}}-(6.68-6)=29.32\text{dBm}$ .

### 3. Maximum power spectral density

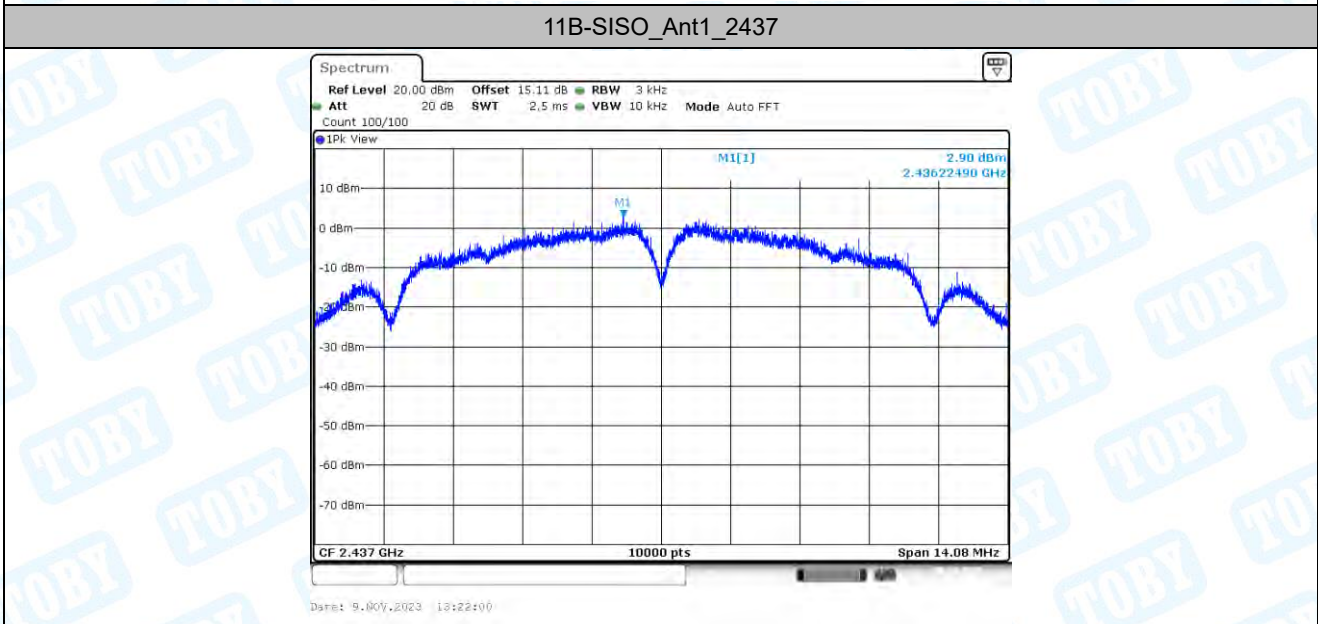
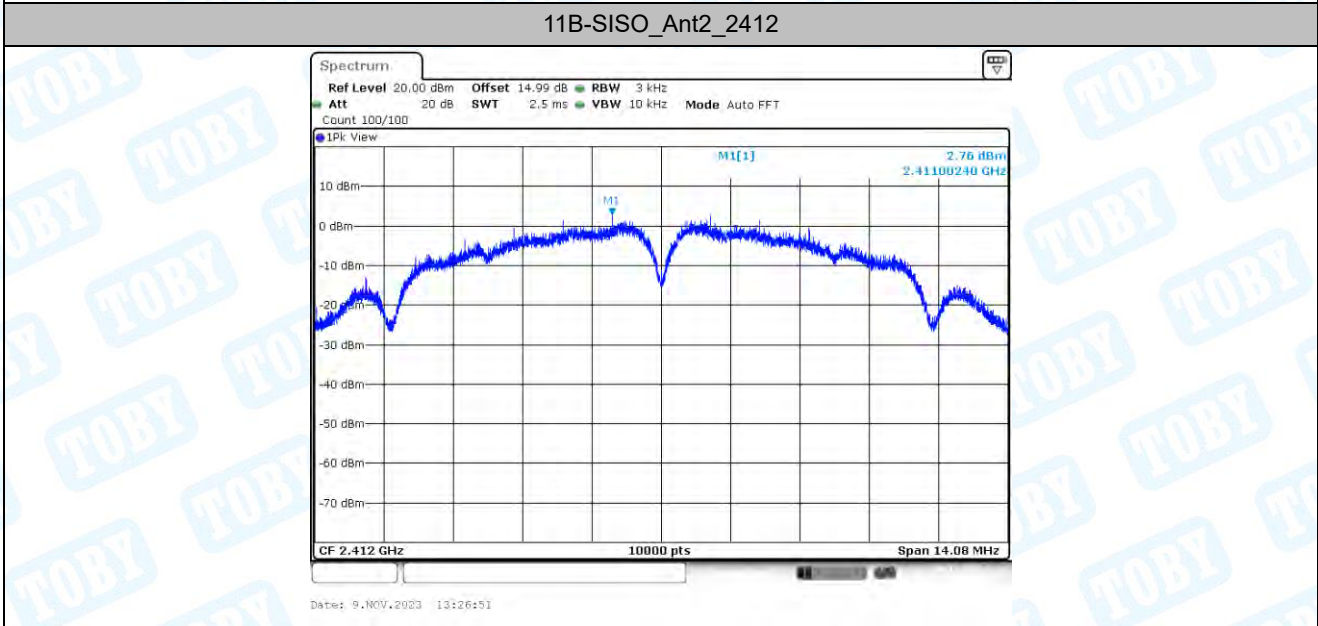
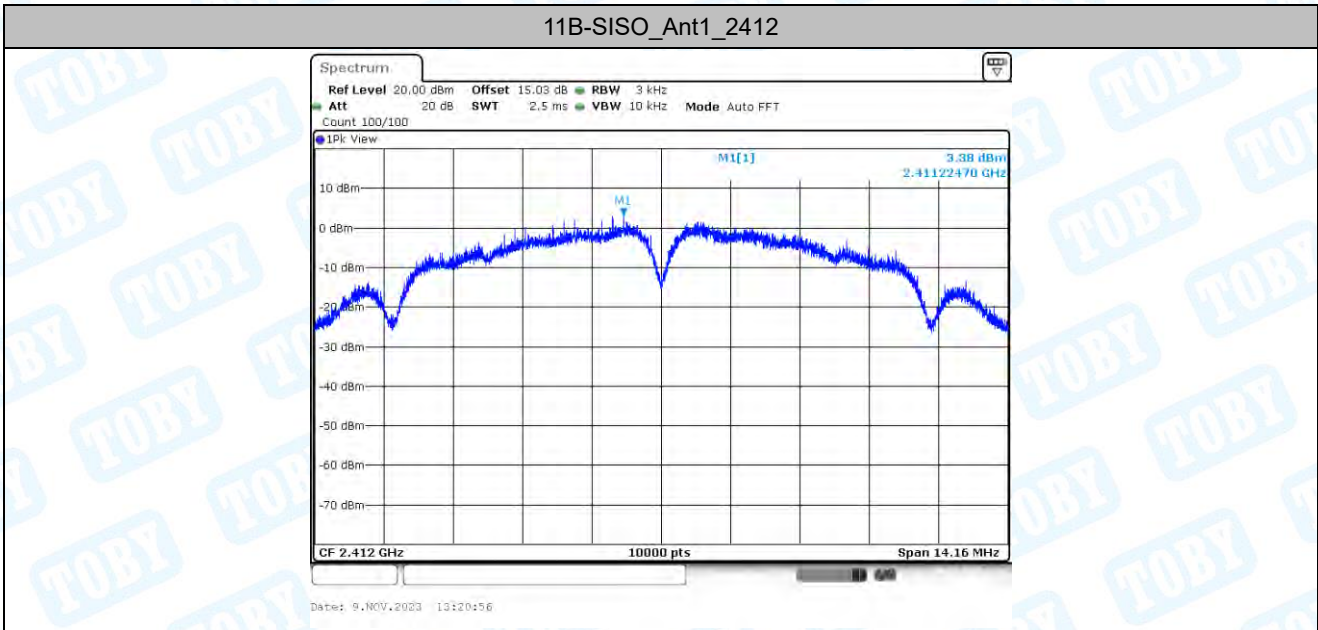
#### 3.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]			Limit[dBm/3kHz]		
			SISO	CDD	BF	SISO	CDD	BF
11B	Ant1	2412	3.38	1.36	/	≤8.00	≤8.00	/
	Ant2	2412	2.76	-0.29	/	≤8.00	≤8.00	/
	total	2412		3.62	/	/	≤7.32	/
	Ant1	2437	2.90	1.09	/	≤8.00	≤8.00	/
	Ant2	2437	3.58	0.30	/	≤8.00	≤8.00	/
	total	2437		3.72	/	/	≤7.32	/
	Ant1	2462	1.90	0.23	/	≤8.00	≤8.00	/
	Ant2	2462	2.43	0.66	/	≤8.00	≤8.00	/
	total	2462		3.46	/	/	≤7.32	/
11G	Ant1	2412	-5.63	-6.96	-8.94	≤8.00	≤8.00	≤8.00
	Ant2	2412	-4.80	-6.60	-8.75	≤8.00	≤8.00	≤8.00
	total	2412		-3.77	-5.83	/	≤7.32	≤7.32
	Ant1	2437	-5.00	-6.14	-7.96	≤8.00	≤8.00	≤8.00
	Ant2	2437	-4.34	-6.34	-8.03	≤8.00	≤8.00	≤8.00
	total	2437		-3.23	-4.98	/	≤7.32	≤7.32
	Ant1	2462	-5.07	-6.53	-8.50	≤8.00	≤8.00	≤8.00
	Ant2	2462	-4.73	-6.51	-8.02	≤8.00	≤8.00	≤8.00
	total	2462		-3.51	-5.24	/	≤7.32	≤7.32
11N20	Ant1	2412	/	-4.51	-6.64	/	≤8.00	≤8.00
	Ant2	2412	/	-5.24	-6.82	/	≤8.00	≤8.00
	total	2412	/	-1.85	-3.72	/	≤7.32	≤7.32
	Ant1	2437	/	-4.10	-6.13	/	≤8.00	≤8.00
	Ant2	2437	/	-4.55	-6.27	/	≤8.00	≤8.00
	total	2437	/	-1.31	-3.19	/	≤7.32	≤7.32
	Ant1	2462	/	-4.31	-5.29	/	≤8.00	≤8.00
	Ant2	2462	/	-5.74	-6.15	/	≤8.00	≤8.00
	total	2462	/	-1.96	-2.69	/	≤7.32	≤7.32
11N40	Ant1	2422	/	-10.82	-12.14	/	≤8.00	≤8.00
	Ant2	2422	/	-10.59	-12.84	/	≤8.00	≤8.00
	total	2422	/	-7.69	-9.47	/	≤7.32	≤7.32
	Ant1	2437	/	-10.33	-12.02	/	≤8.00	≤8.00
	Ant2	2437	/	-10.01	-12.31	/	≤8.00	≤8.00
	total	2437	/	-7.16	-9.15	/	≤7.32	≤7.32
	Ant1	2452	/	-10.43	-11.66	/	≤8.00	≤8.00
	Ant2	2452	/	-10.65	-11.74	/	≤8.00	≤8.00
	total	2452	/	-7.53	-8.69	/	≤7.32	≤7.32
VHT20	Ant1	2412	/	-2.07	-3.59	/	≤8.00	≤8.00
	Ant2	2412	/	-2.45	-4.06	/	≤8.00	≤8.00
	total	2412	/	0.75	-0.81	/	≤7.32	≤7.32
	Ant1	2437	/	-1.42	-2.46	/	≤8.00	≤8.00
	Ant2	2437	/	-1.31	-3.18	/	≤8.00	≤8.00
	total	2437	/	1.65	0.21	/	≤7.32	≤7.32
	Ant1	2462	/	-1.82	-3.13	/	≤8.00	≤8.00
	Ant2	2462	/	-2.80	-3.29	/	≤8.00	≤8.00
	total	2462	/	0.73	-0.20	/	≤7.32	≤7.32
VHT40	Ant1	2422	/	-7.50	-8.65	/	≤8.00	≤8.00
	Ant2	2422	/	-7.61	-8.38	/	≤8.00	≤8.00
	total	2422	/	-4.54	-5.50	/	≤7.32	≤7.32
	Ant1	2437	/	-5.71	-7.55	/	≤8.00	≤8.00
	Ant2	2437	/	-7.27	-8.30	/	≤8.00	≤8.00
	total	2437	/	-3.41	-4.90	/	≤7.32	≤7.32
	Ant1	2452	/	-6.88	-8.84	/	≤8.00	≤8.00

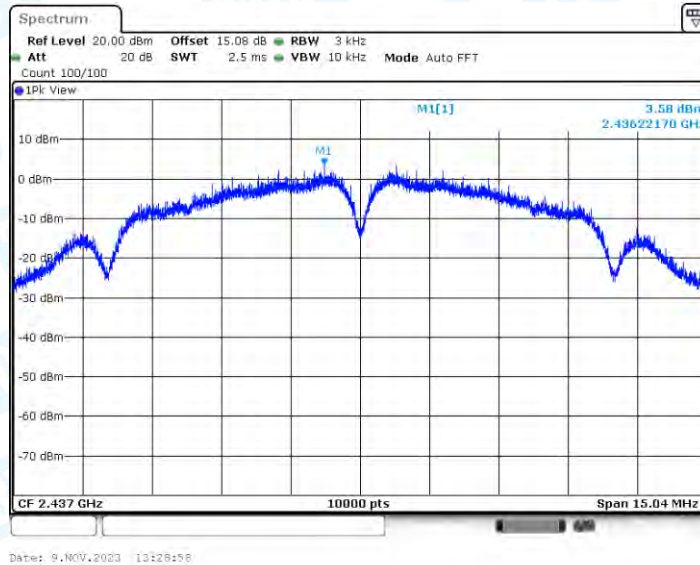
	Ant2	2452	/	-7.70	-8.64	/	≤8.00	≤8.00
	total	2452	/	-4.26	-5.73	/	≤7.32	≤7.32
11AX20	Ant1	2412	/	-5.89	-7.42	/	≤8.00	≤8.00
	Ant2	2412	/	-5.37	-6.54	/	≤8.00	≤8.00
	total	2412	/	-2.61	-3.95	/	≤7.32	≤7.32
	Ant1	2437	/	-4.15	-5.92	/	≤8.00	≤8.00
	Ant2	2437	/	-3.97	-6.15	/	≤8.00	≤8.00
	total	2437	/	-1.05	-3.02	/	≤7.32	≤7.32
	Ant1	2462	/	-5.45	-6.24	/	≤8.00	≤8.00
	Ant2	2462	/	-4.58	-6.22	/	≤8.00	≤8.00
	total	2462	/	-1.98	-3.22	/	≤7.32	≤7.32
	11AX40	Ant1	2422	/	-9.20	-11.25	/	≤8.00
Ant2		2422	/	-10.11	-10.75	/	≤8.00	≤8.00
total		2422	/	-6.62	-7.98	/	≤7.32	≤7.32
Ant1		2437	/	-8.90	-10.46	/	≤8.00	≤8.00
Ant2		2437	/	-9.25	-10.57	/	≤8.00	≤8.00
total		2437	/	-6.06	-7.50	/	≤7.32	≤7.32
Ant1		2452	/	-9.22	-11.17	/	≤8.00	≤8.00
Ant2		2452	/	-9.16	-10.62	/	≤8.00	≤8.00
total	2452	/	-6.18	-7.88	/	≤7.32	≤7.32	

Note: For CDD/BF Mode, Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 6.68\text{dBi}$ ;  $G_{ANT1} = 3.92\text{dBi}$ ;  $G_{ANT2} = 3.42\text{dBi}$ ; and the Directional gain > 6dBi, So the  $PSD_{limit} = PSD_{limit} - (6.68 - 6) = 7.32\text{dBm}/3\text{kHz}$ .

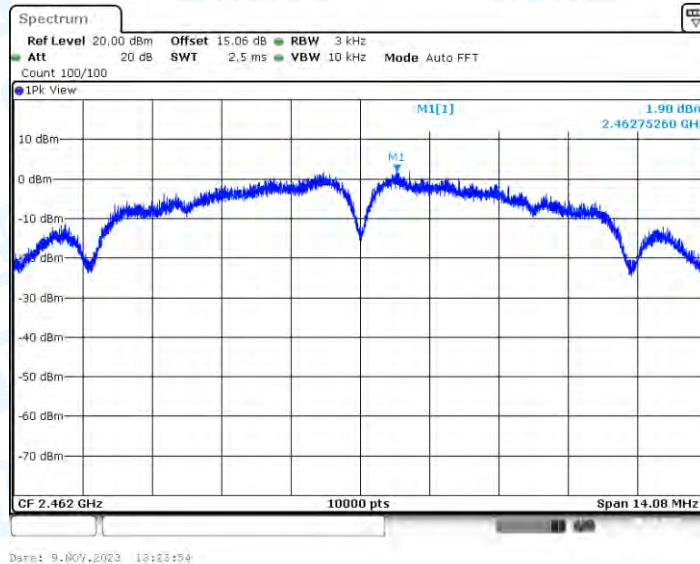
### 3.2. Test Graphs



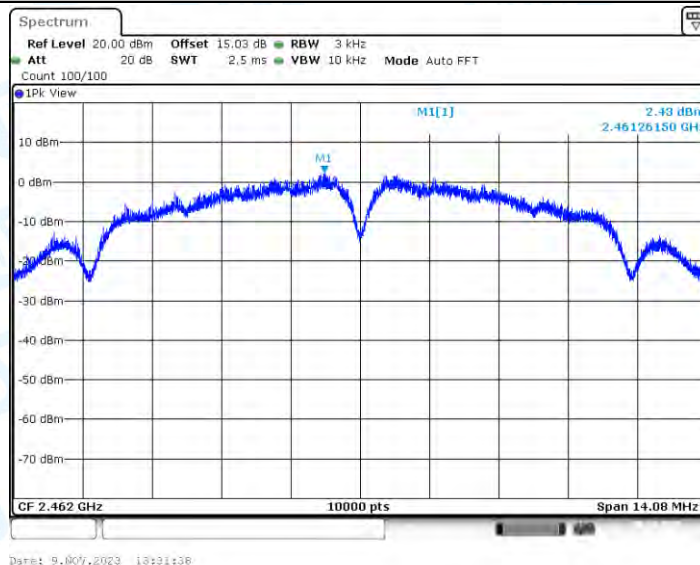
11B-SISO\_Ant2\_2437



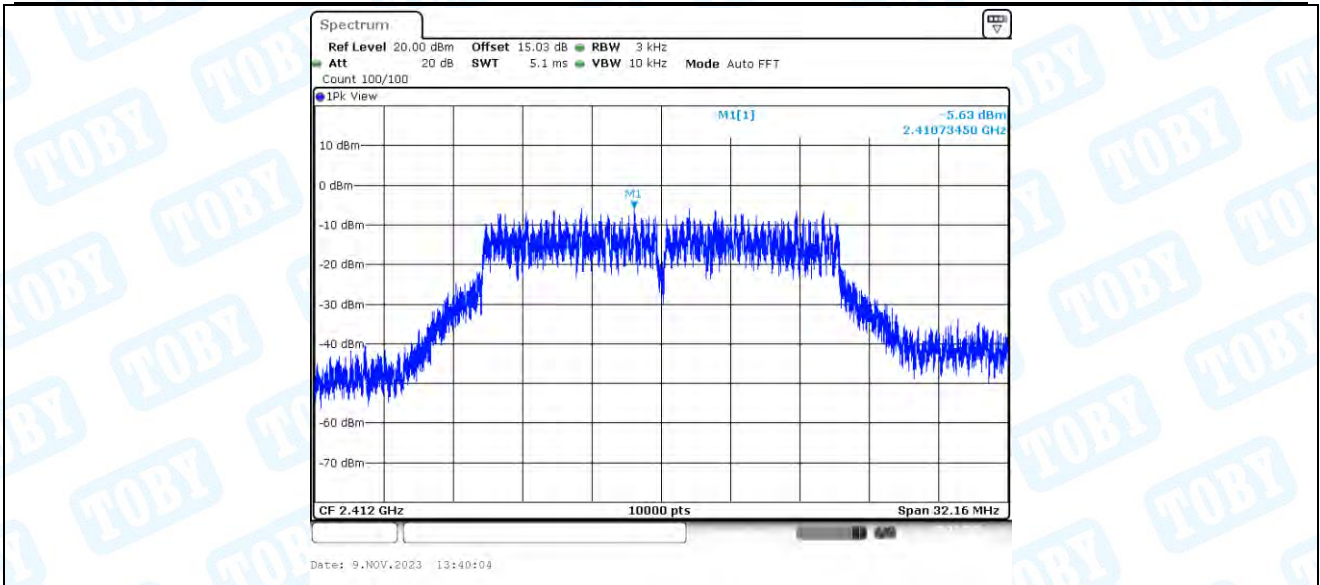
11B-SISO\_Ant1\_2462



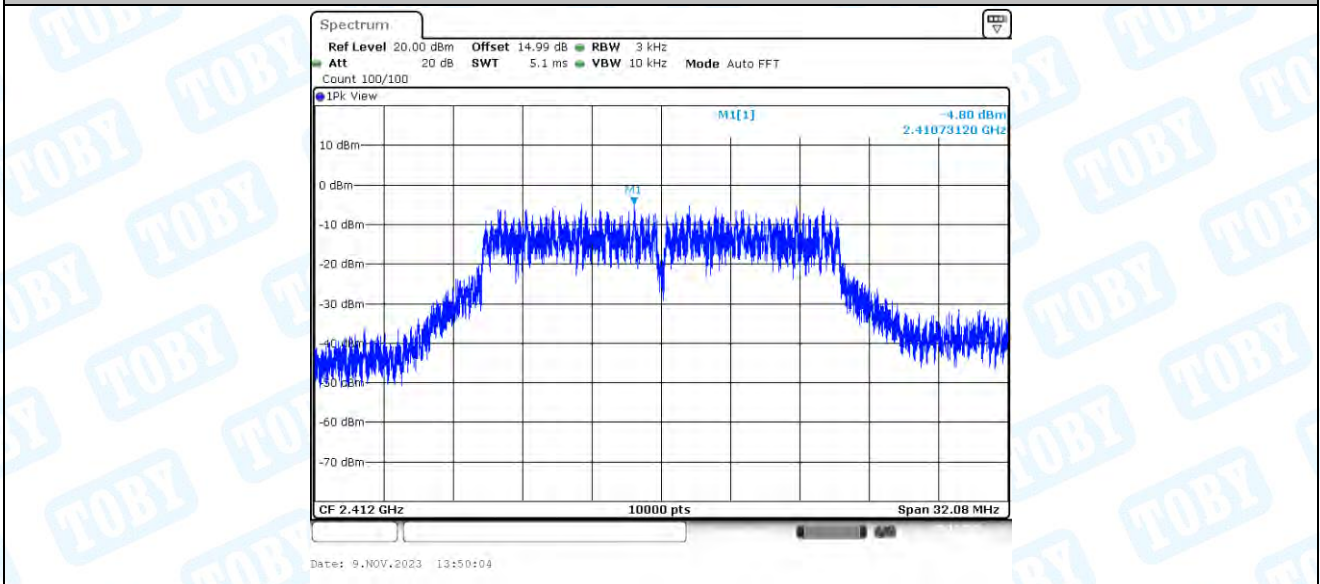
11B-SISO\_Ant2\_2462



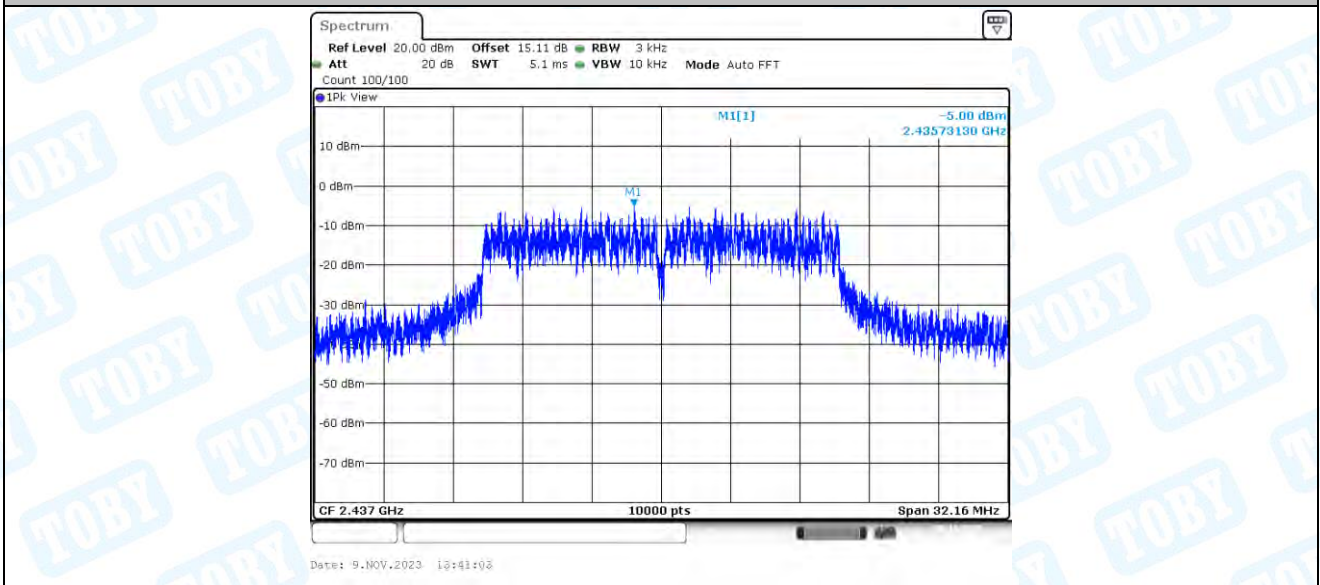
11G-SISO\_Ant1\_2412



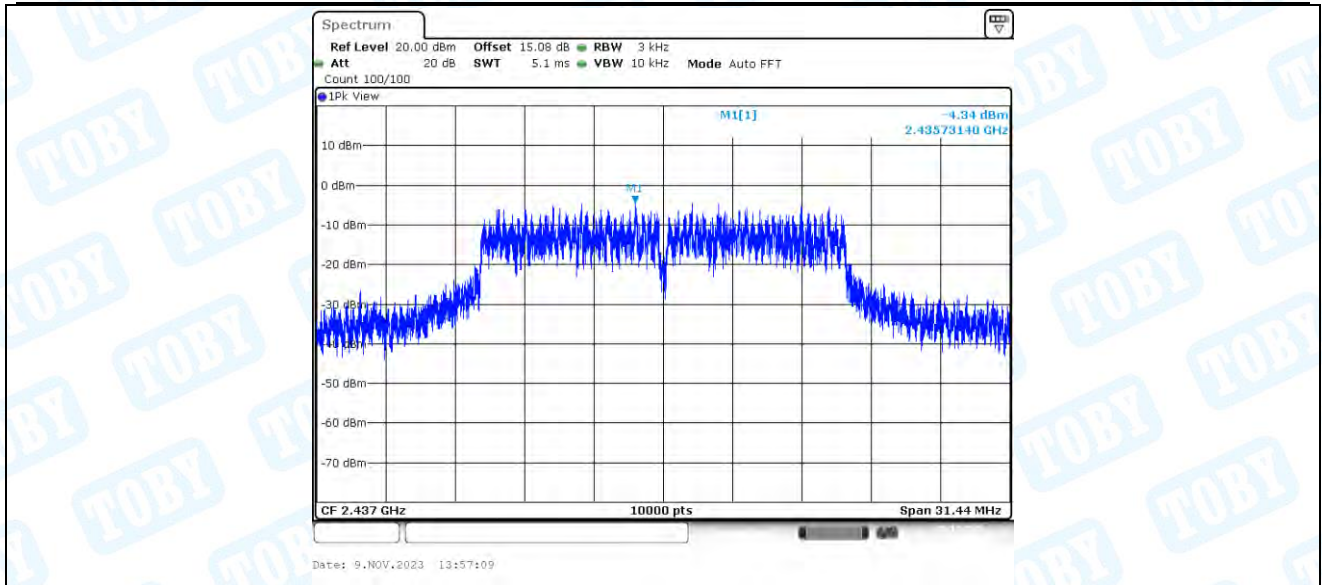
11G-SISO\_Ant2\_2412



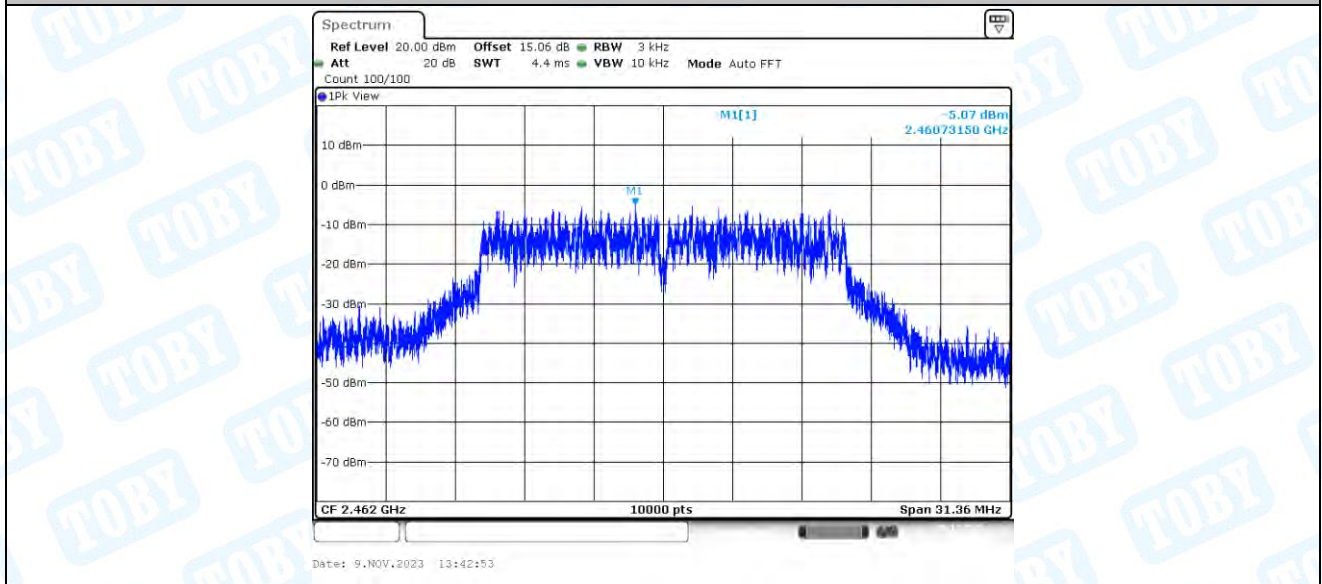
11G-SISO\_Ant1\_2437



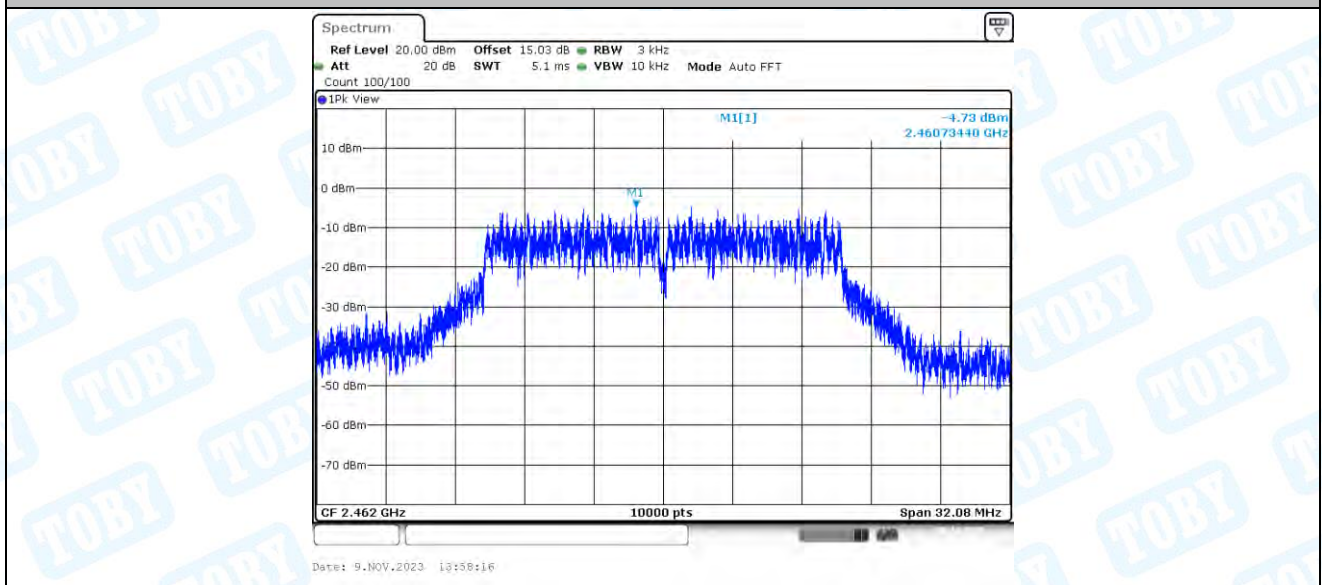
11G-SISO\_Ant2\_2437



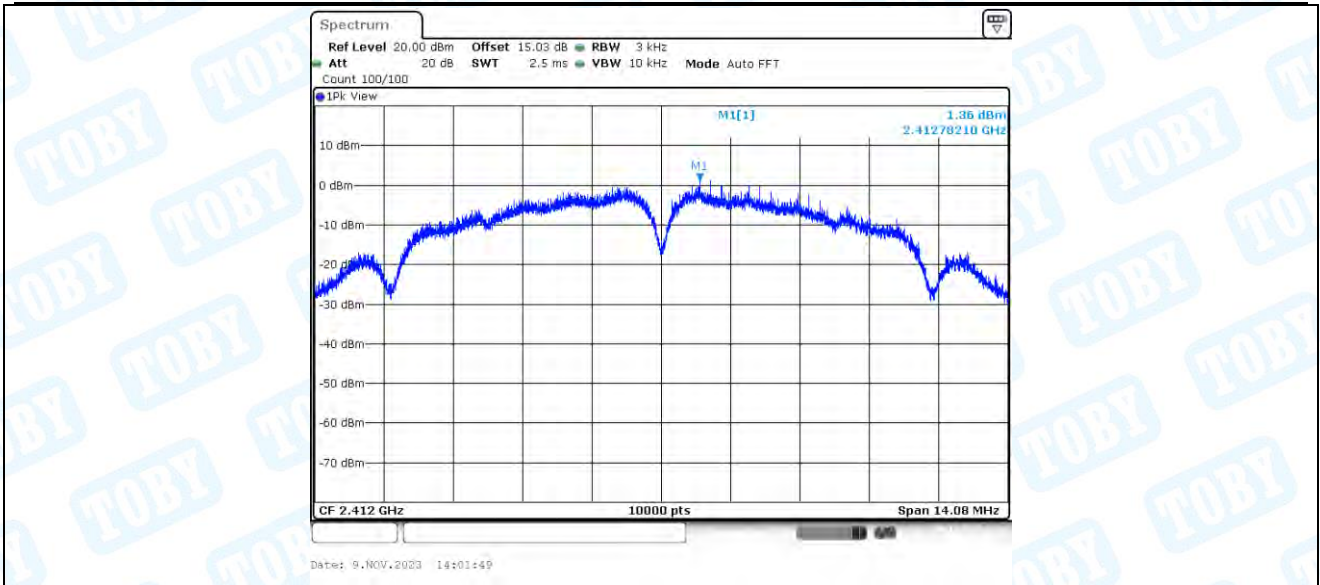
11G-SISO\_Ant1\_2462



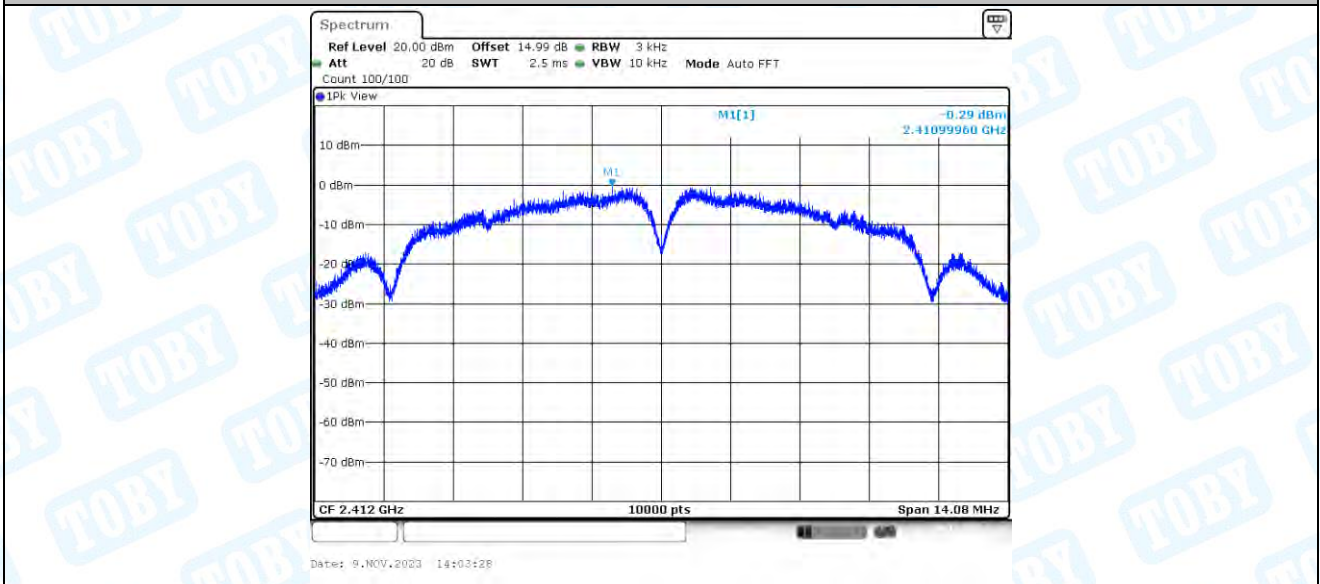
11G-SISO\_Ant2\_2462



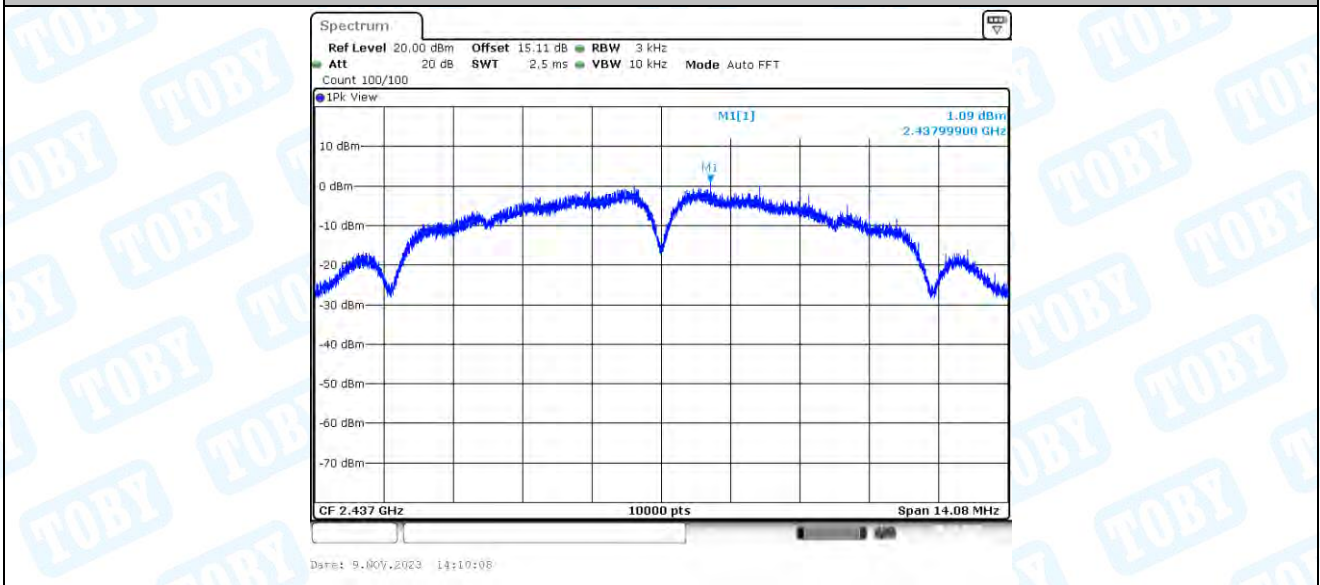
11B-CDD\_Ant1\_2412



11B-CDD\_Ant2\_2412

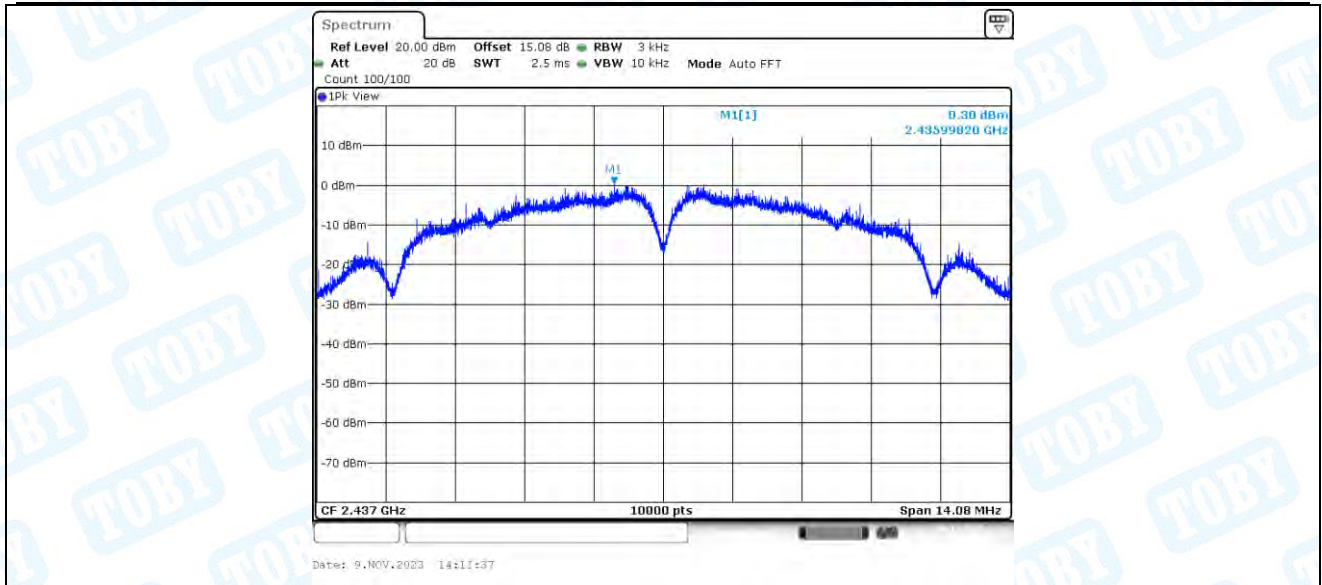


11B-CDD\_Ant1\_2437

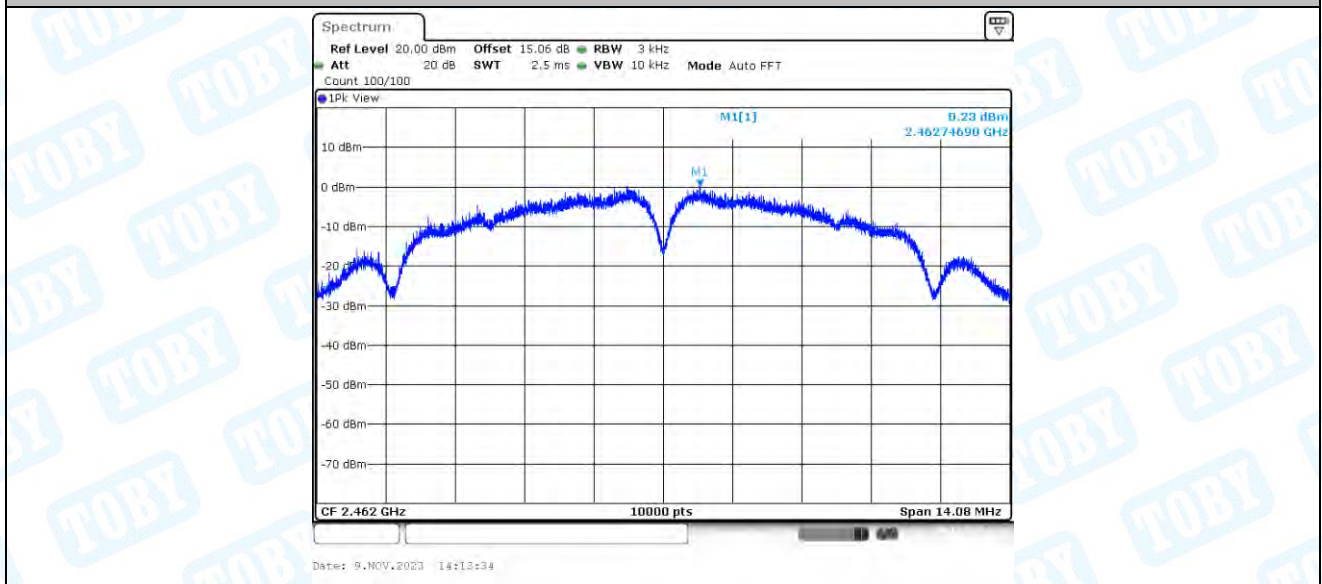


11B-CDD\_Ant2\_2437

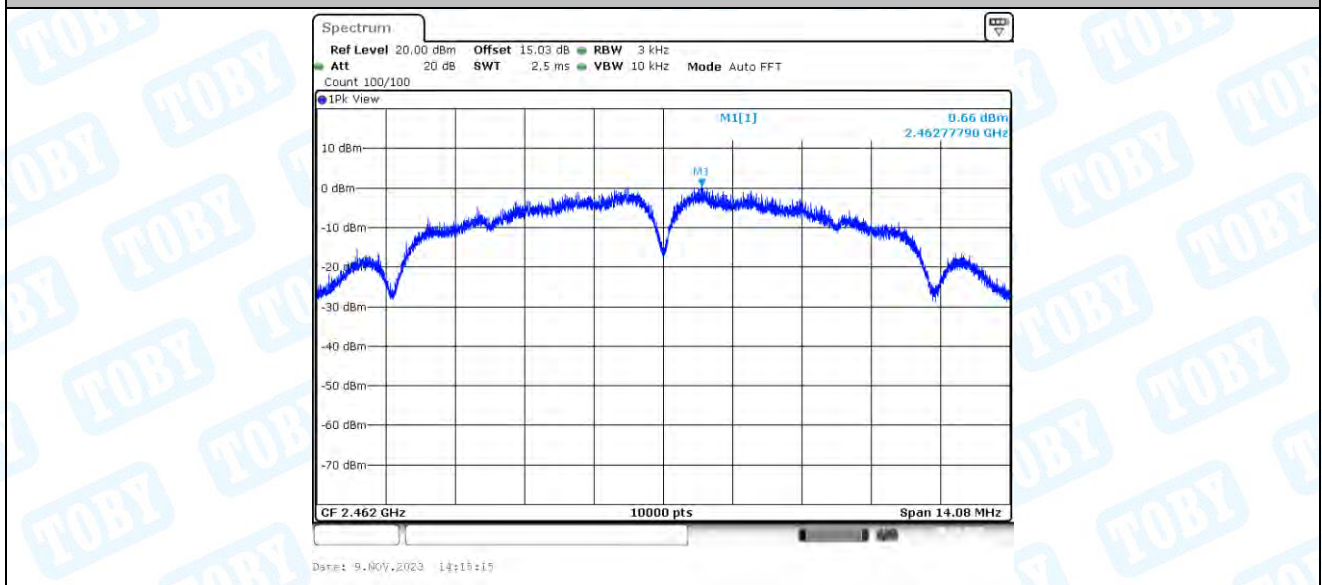




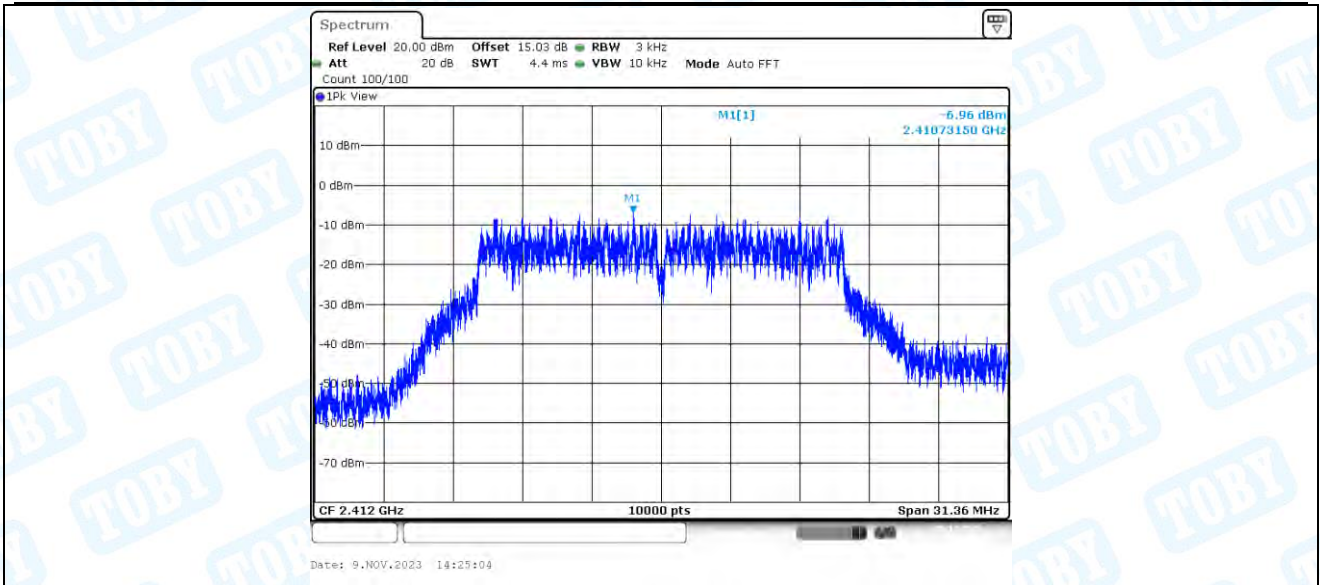
11B-CDD\_Ant1\_2462



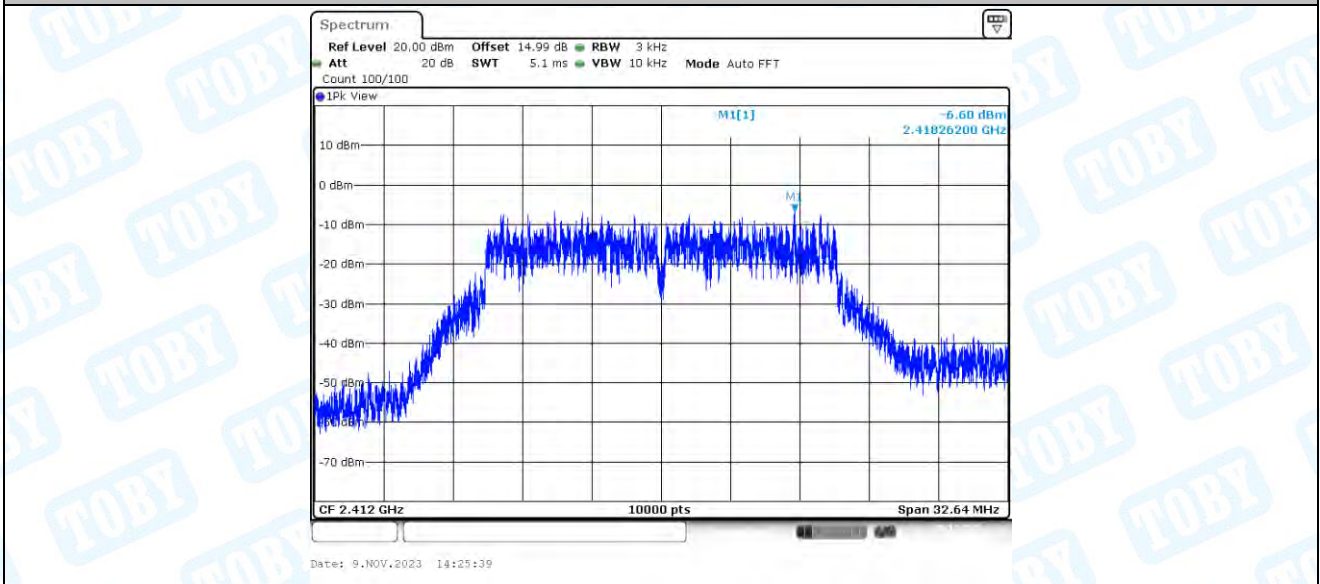
11B-CDD\_Ant2\_2462



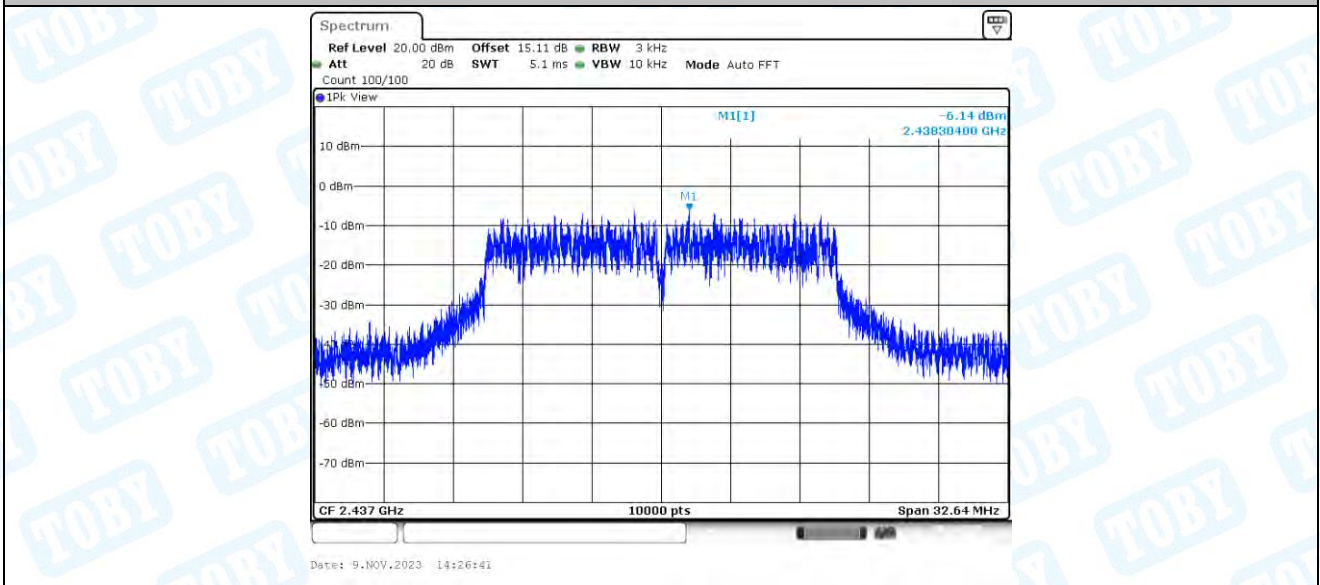
11G-CDD\_Ant1\_2412



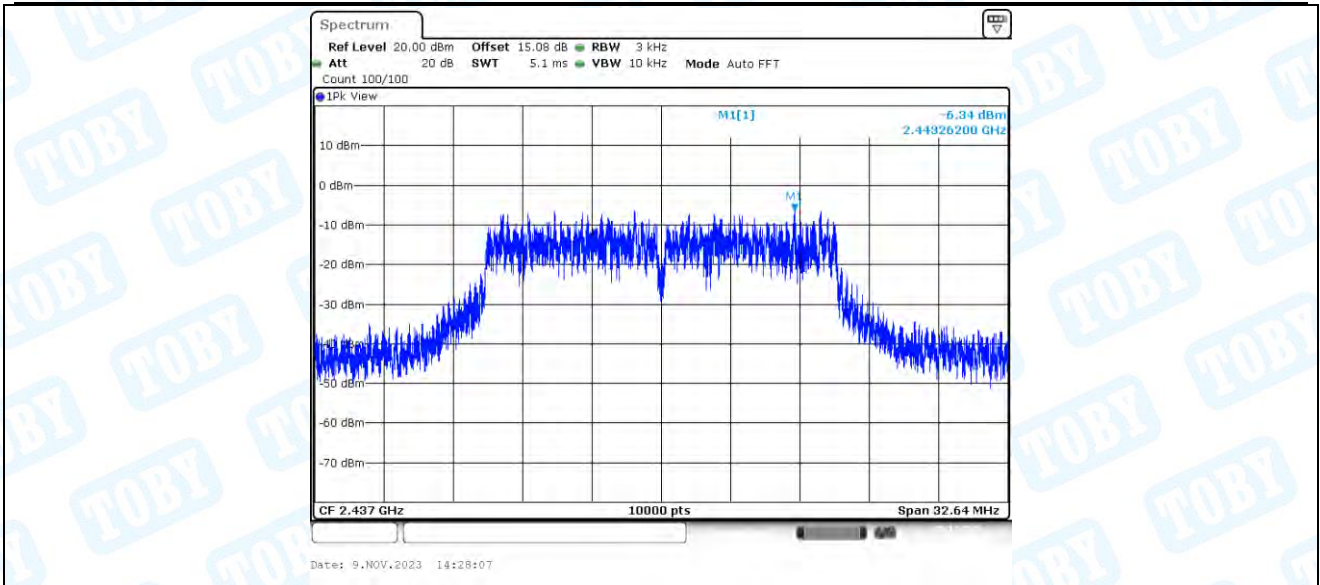
11G-CDD\_Ant2\_2412



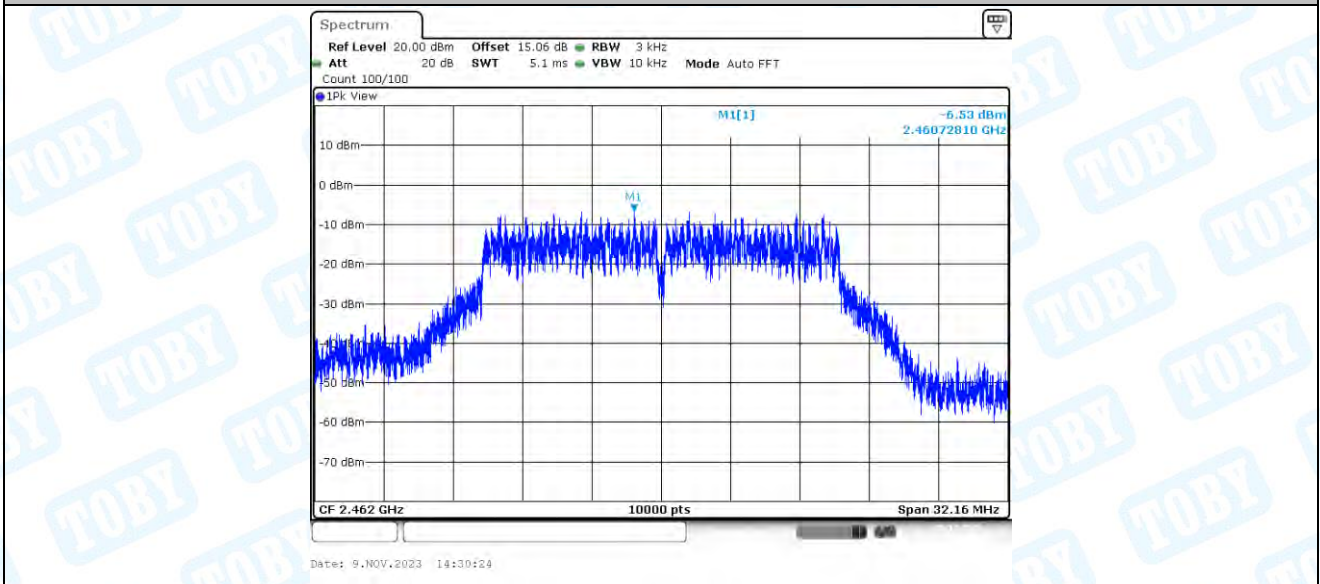
11G-CDD\_Ant1\_2437



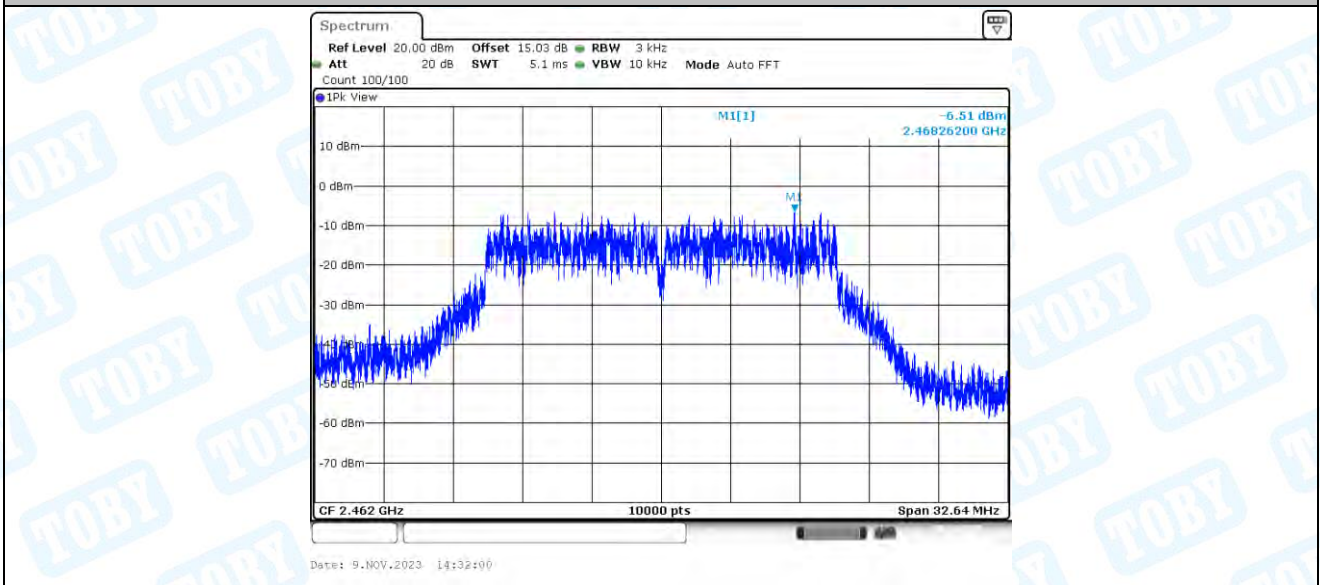
11G-CDD\_Ant2\_2437



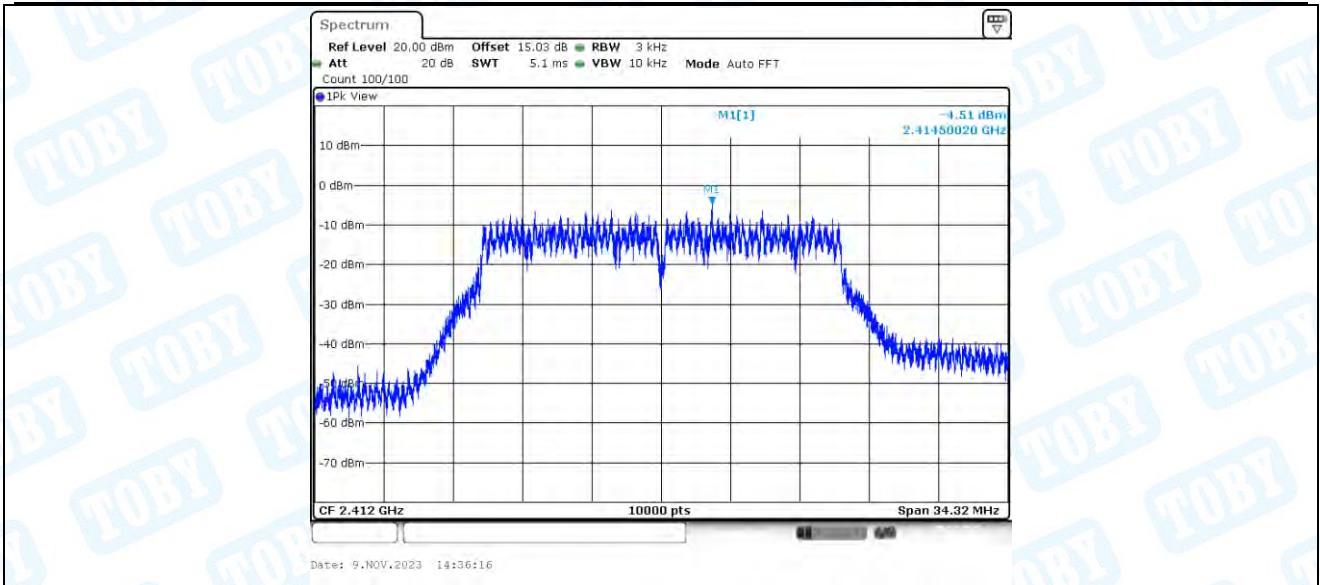
11G-CDD\_Ant1\_2462



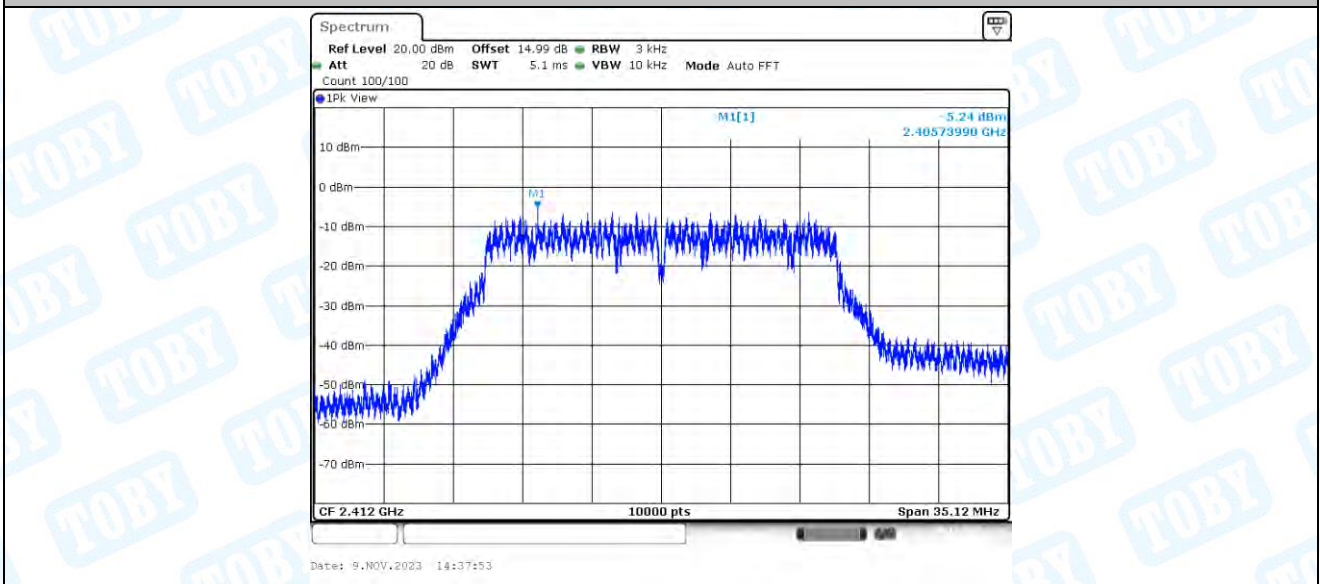
11G-CDD\_Ant2\_2462



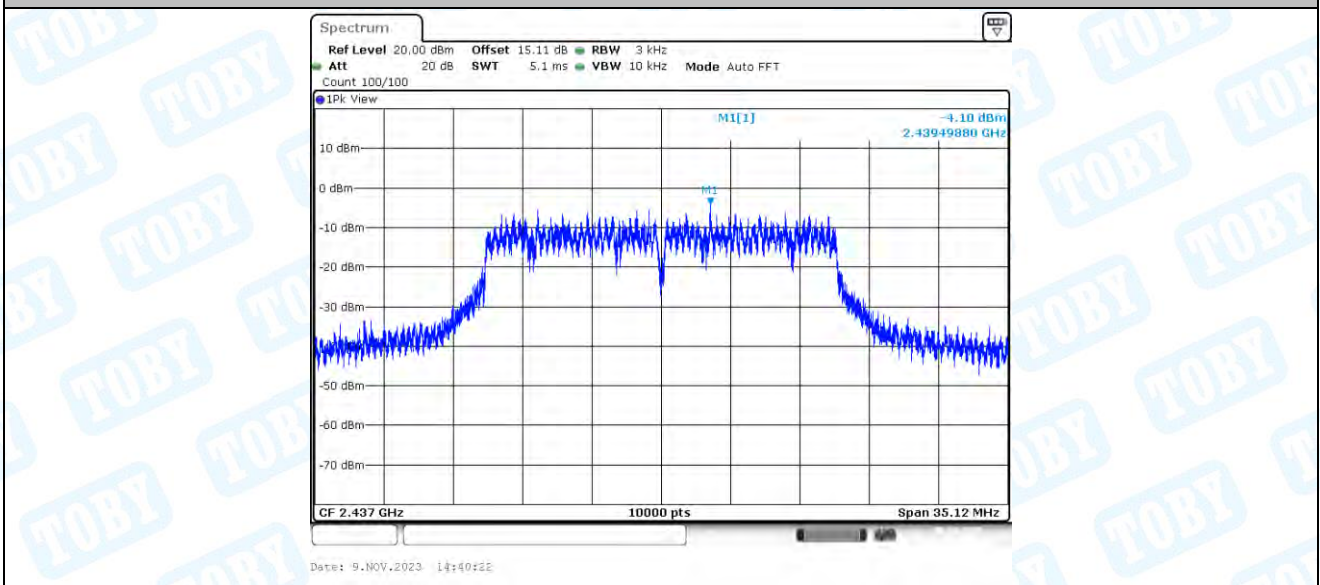
11N20-CDD\_Ant1\_2412



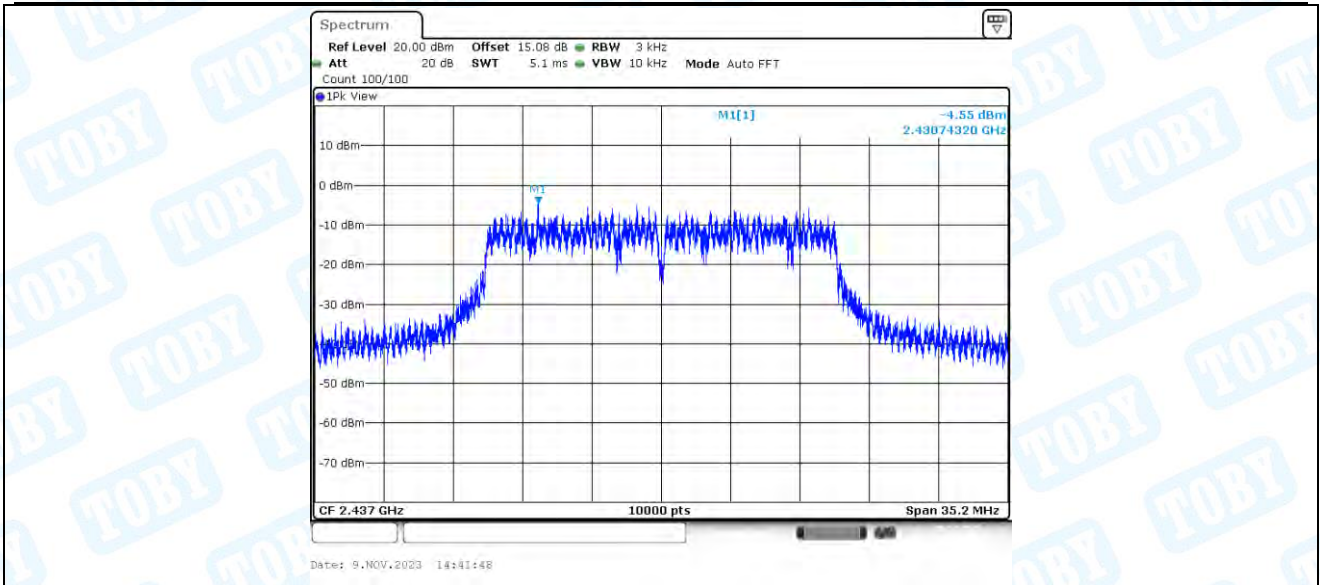
11N20-CDD\_Ant2\_2412



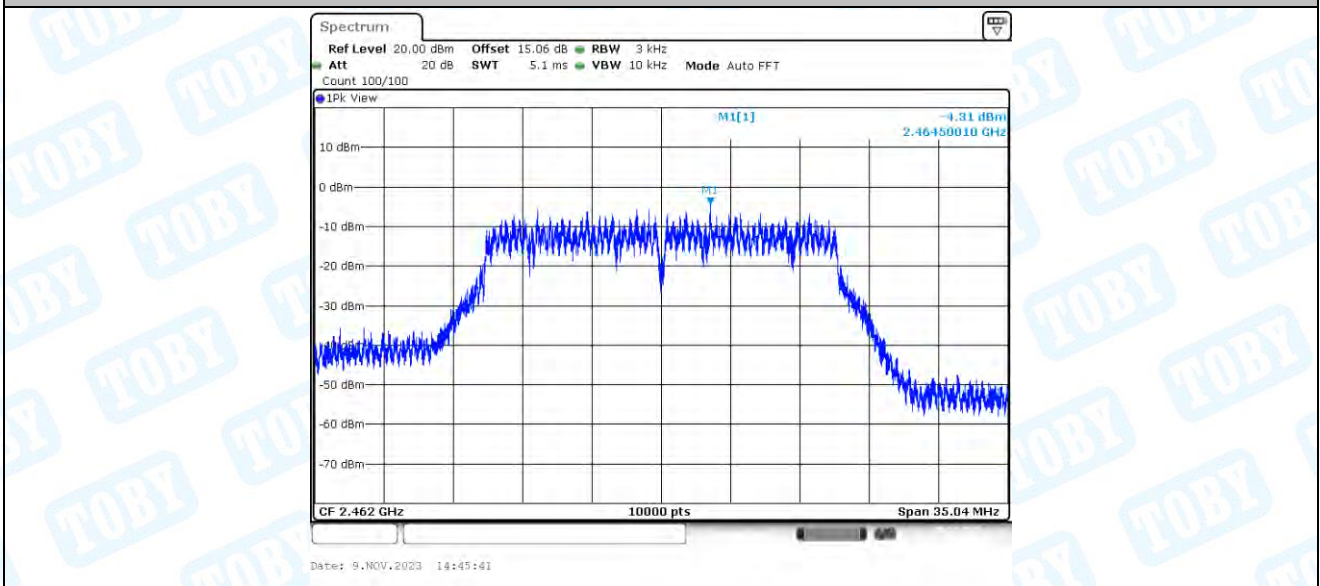
11N20-CDD\_Ant1\_2437



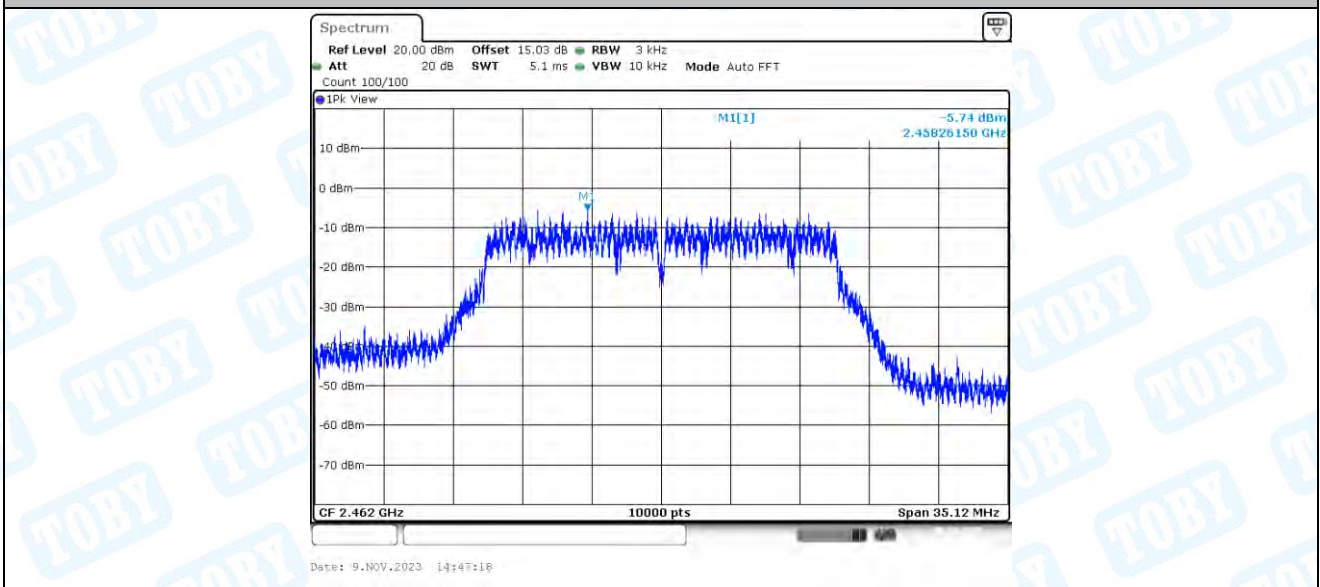
11N20-CDD\_Ant2\_2437



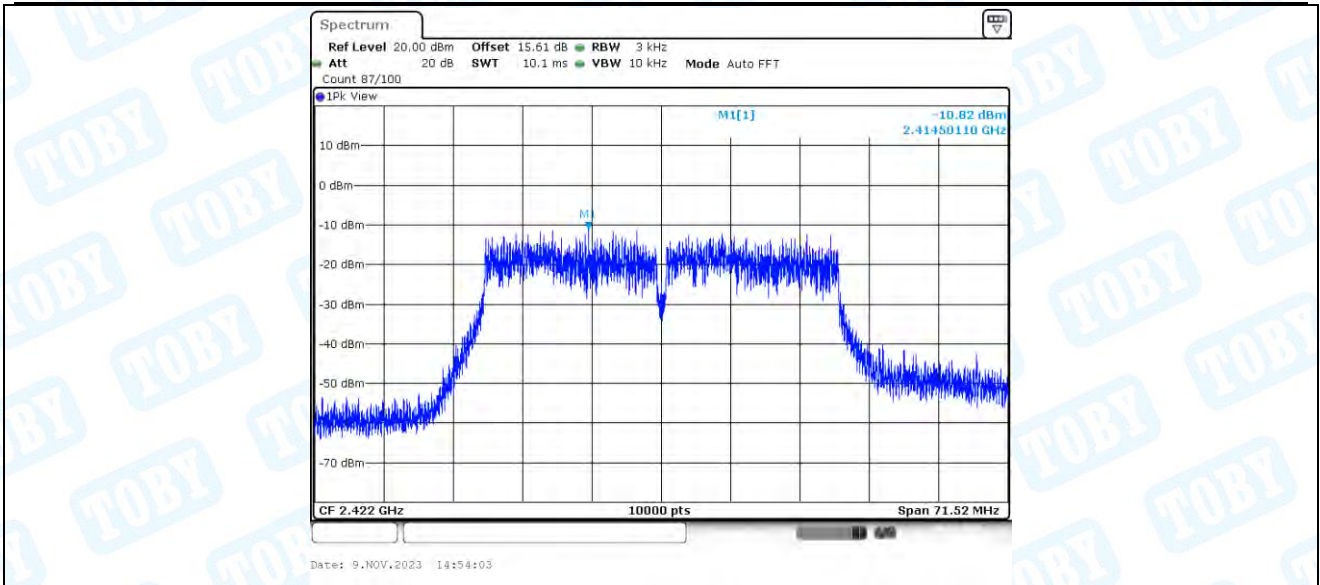
11N20-CDD\_Ant1\_2462



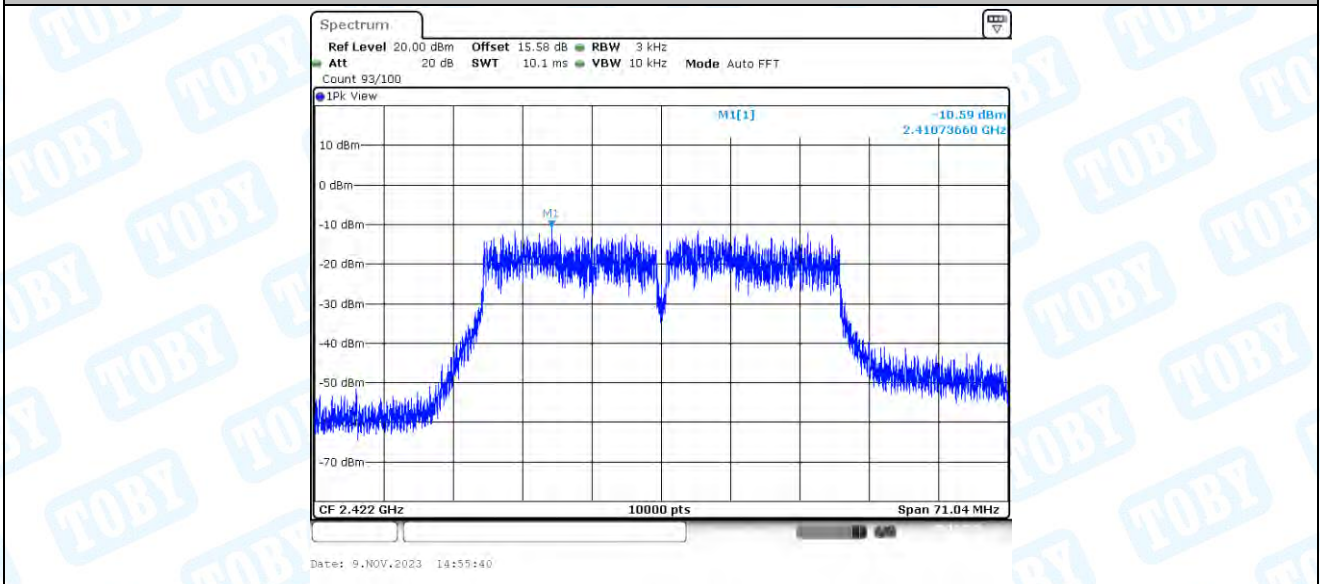
11N20-CDD\_Ant2\_2462



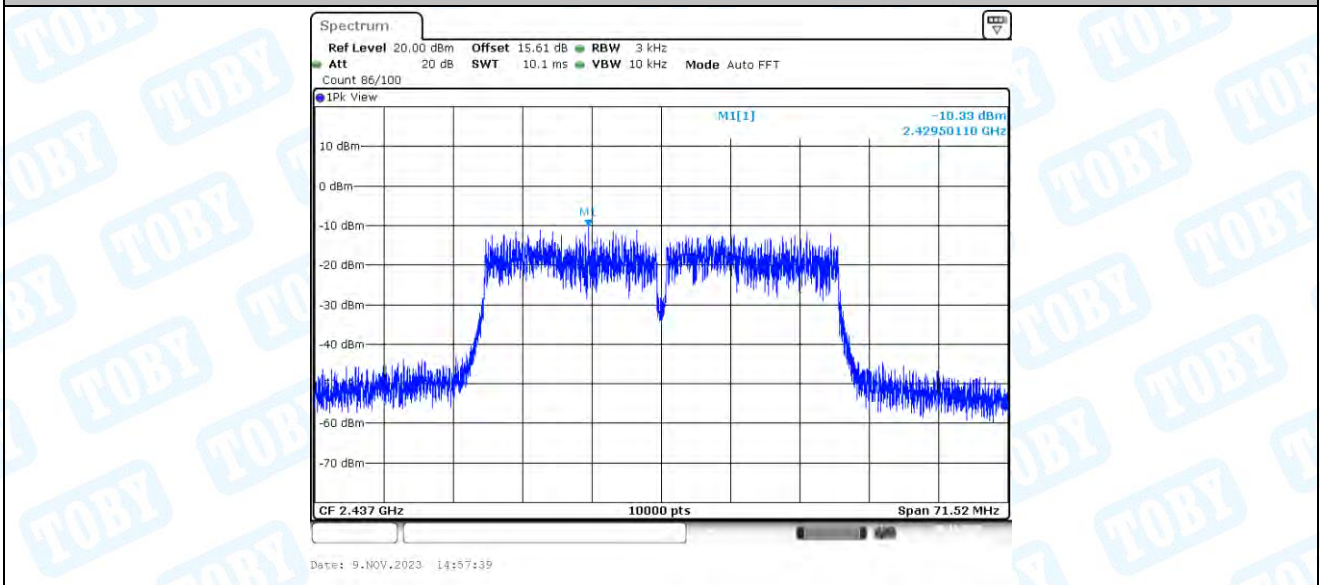
11N40-CDD\_Ant1\_2422



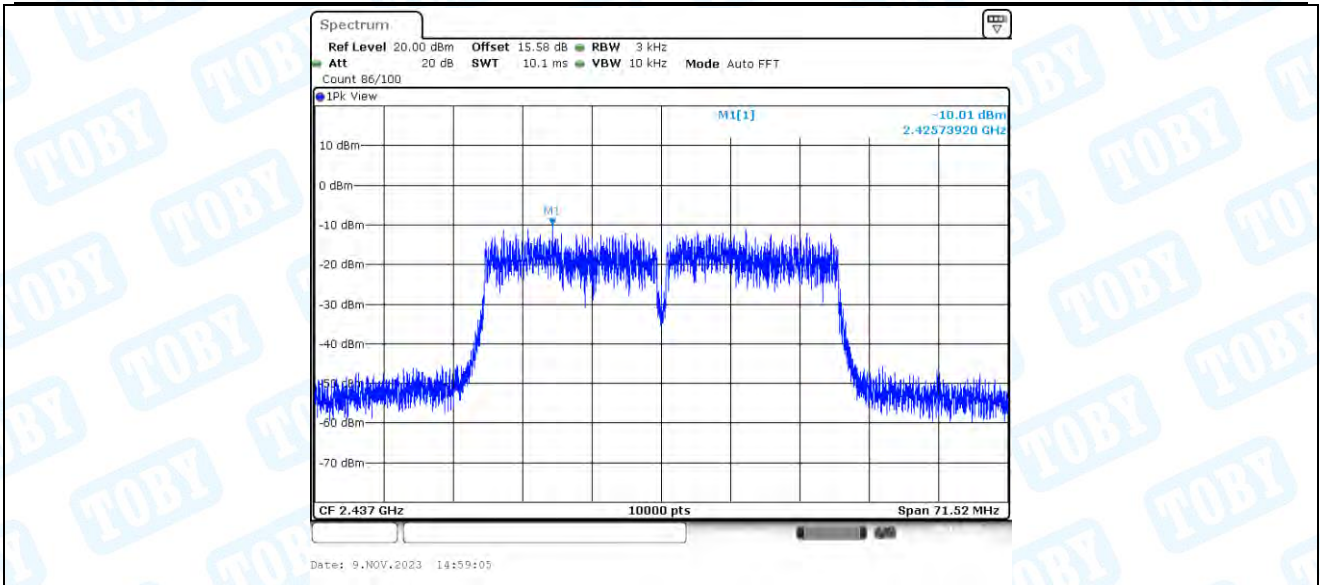
11N40-CDD\_Ant2\_2422



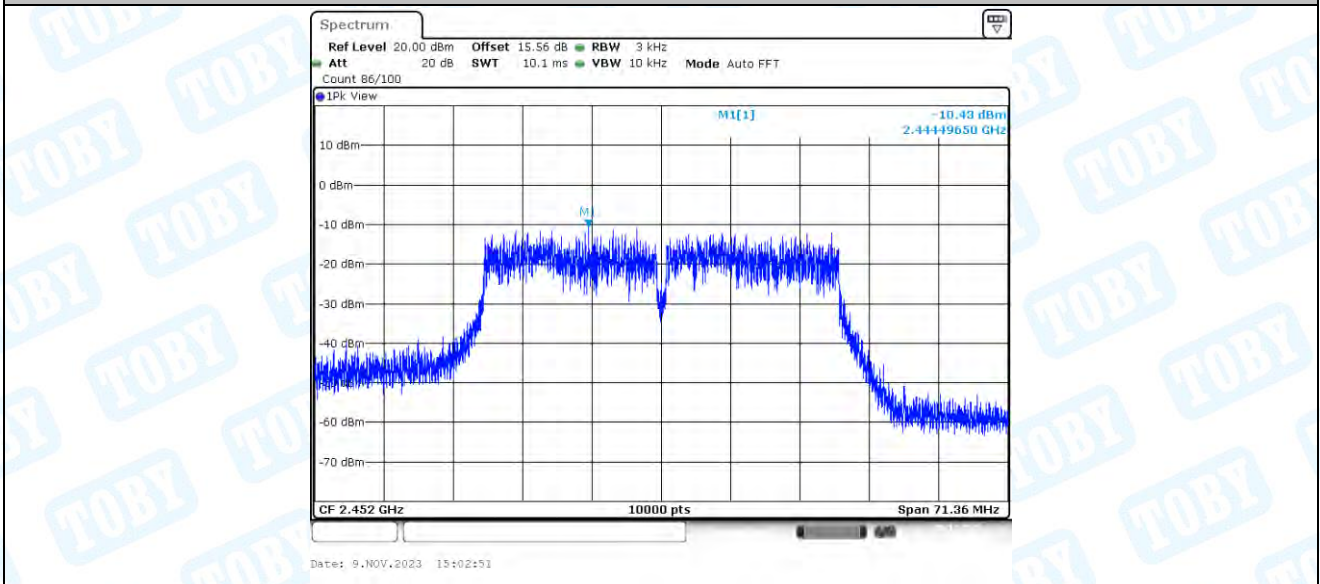
11N40-CDD\_Ant1\_2437



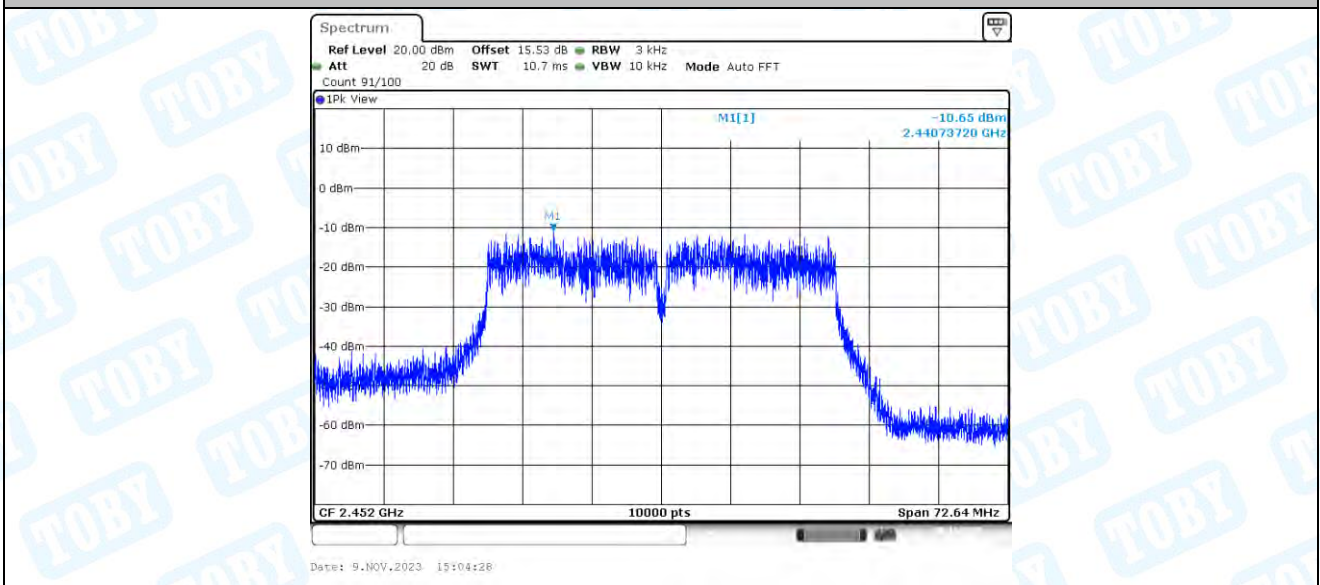
11N40-CDD\_Ant2\_2437



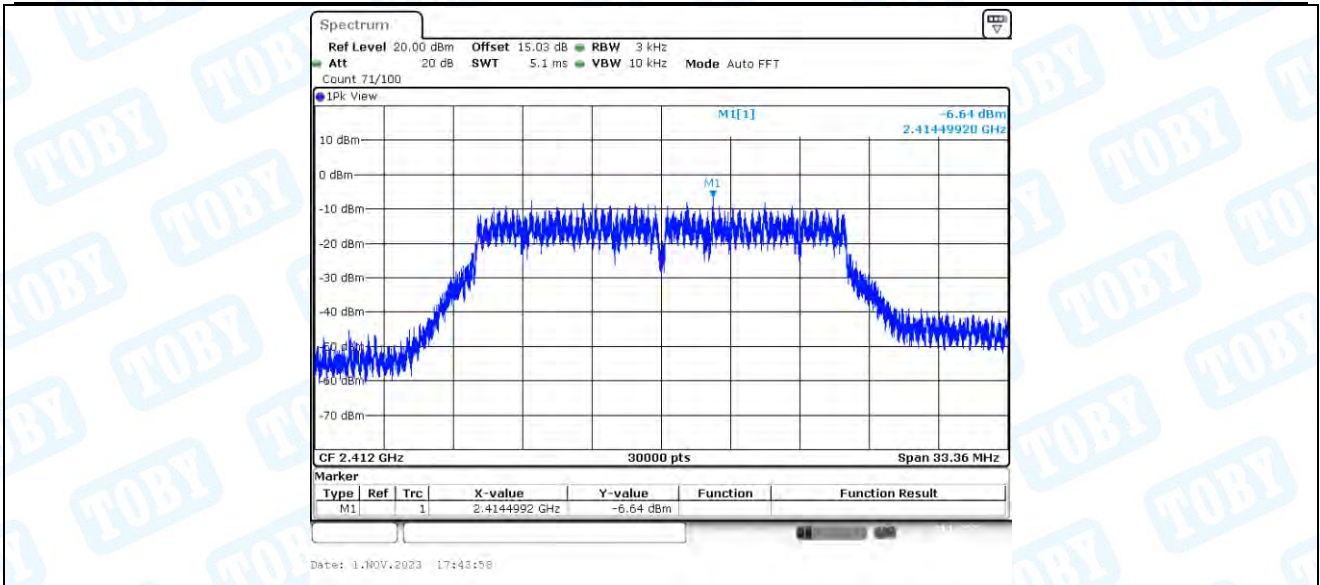
11N40-CDD\_Ant1\_2452



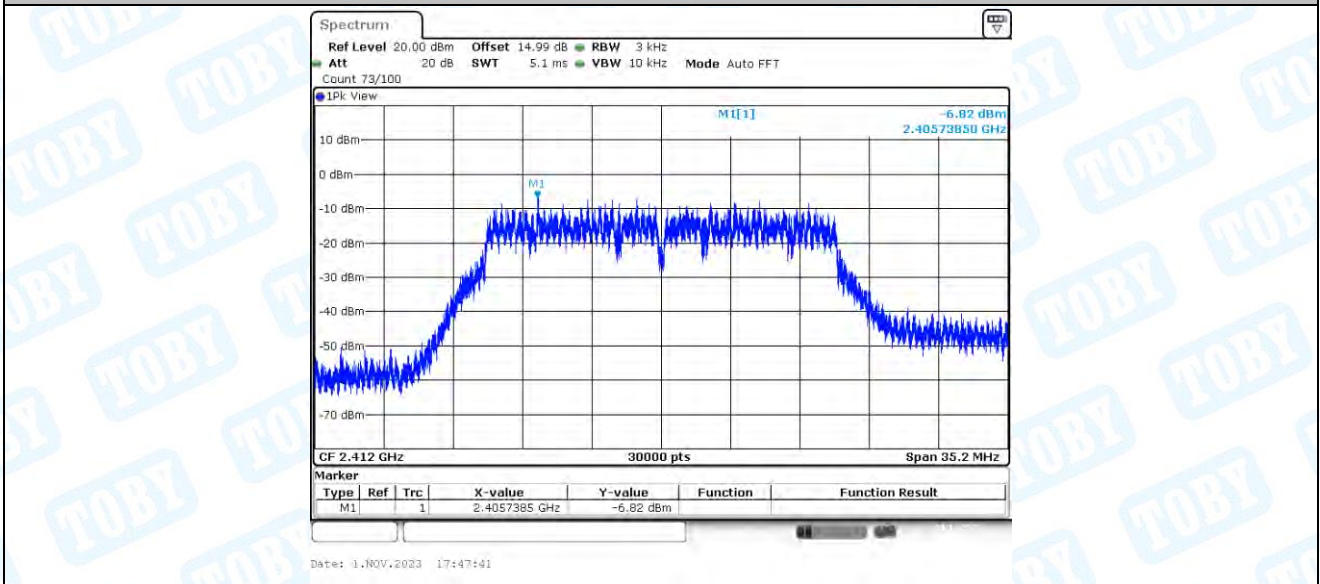
11N40-CDD\_Ant2\_2452



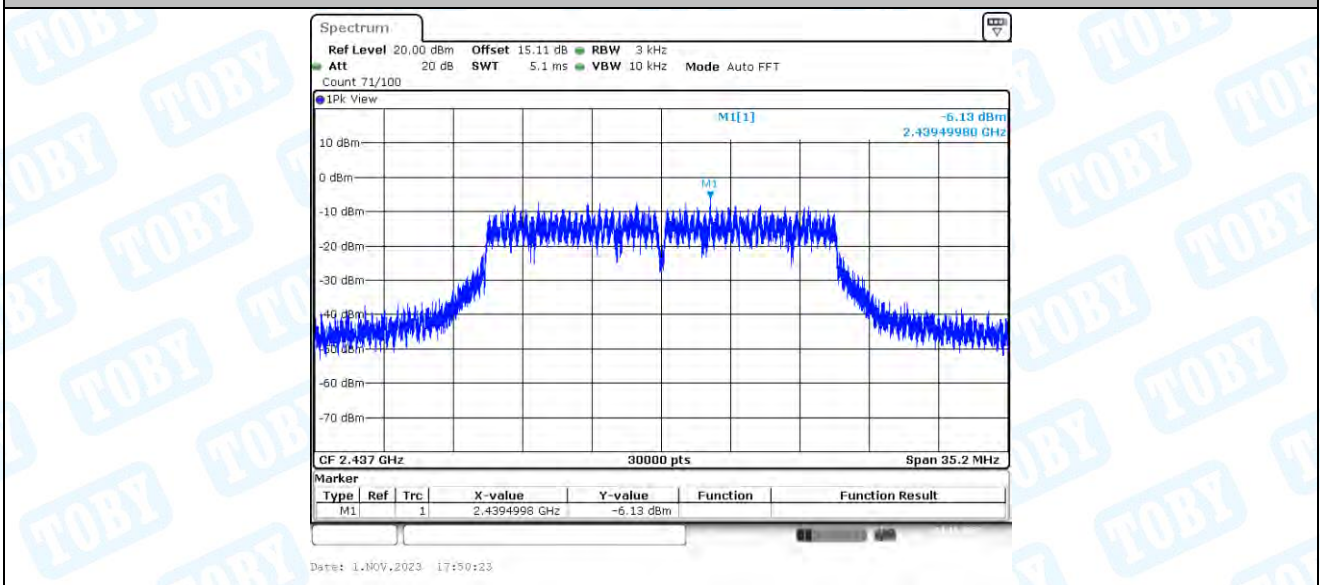
11N20-BF\_Ant1\_2412



11N20-BF\_Ant2\_2412

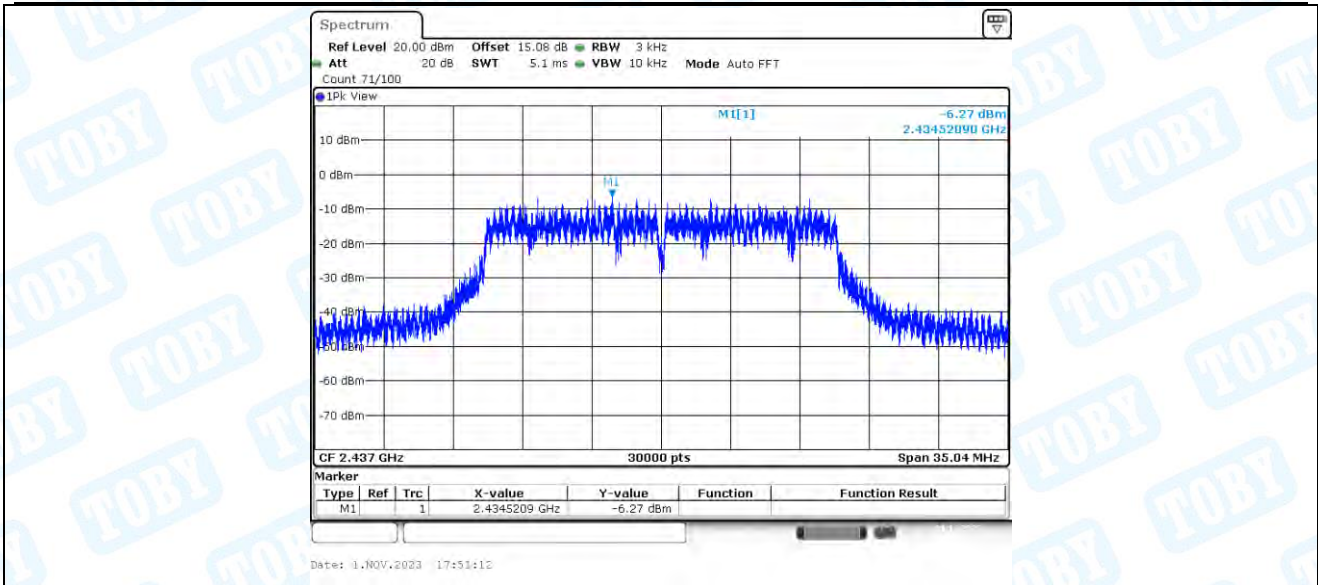


11N20-BF\_Ant1\_2437

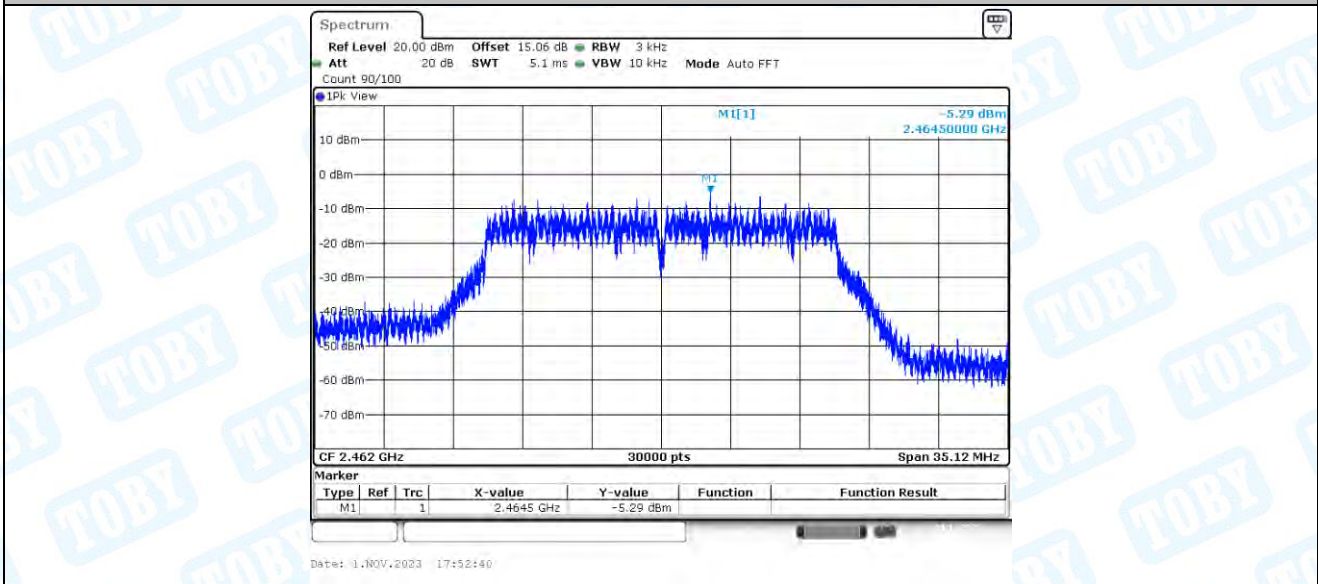


11N20-BF\_Ant2\_2437

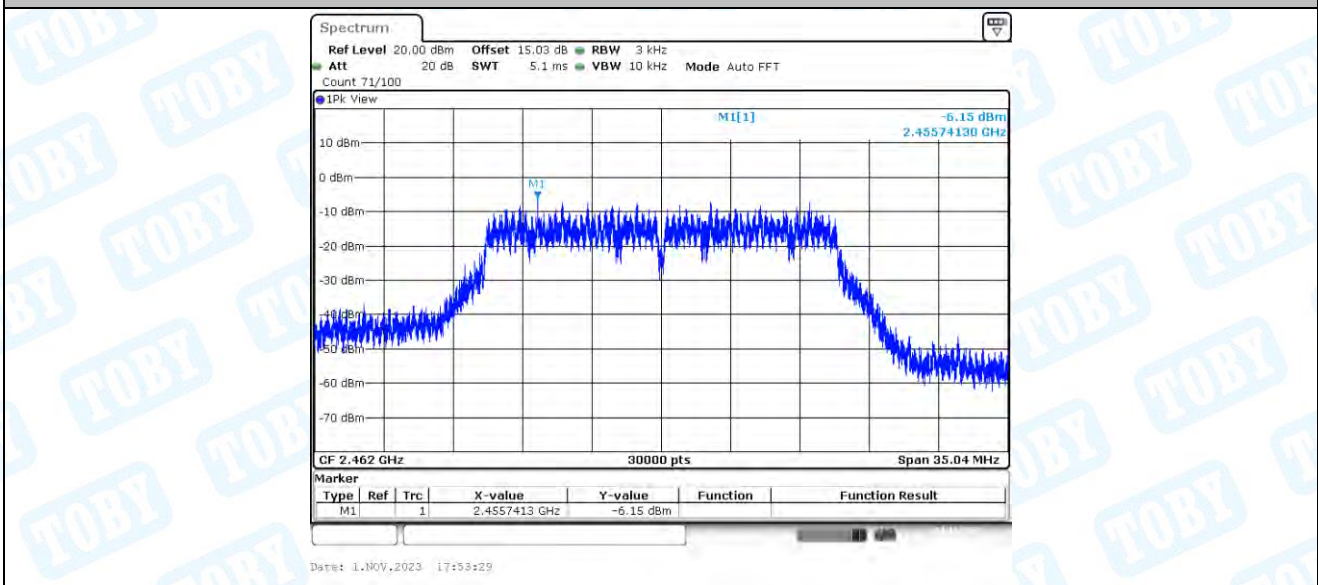




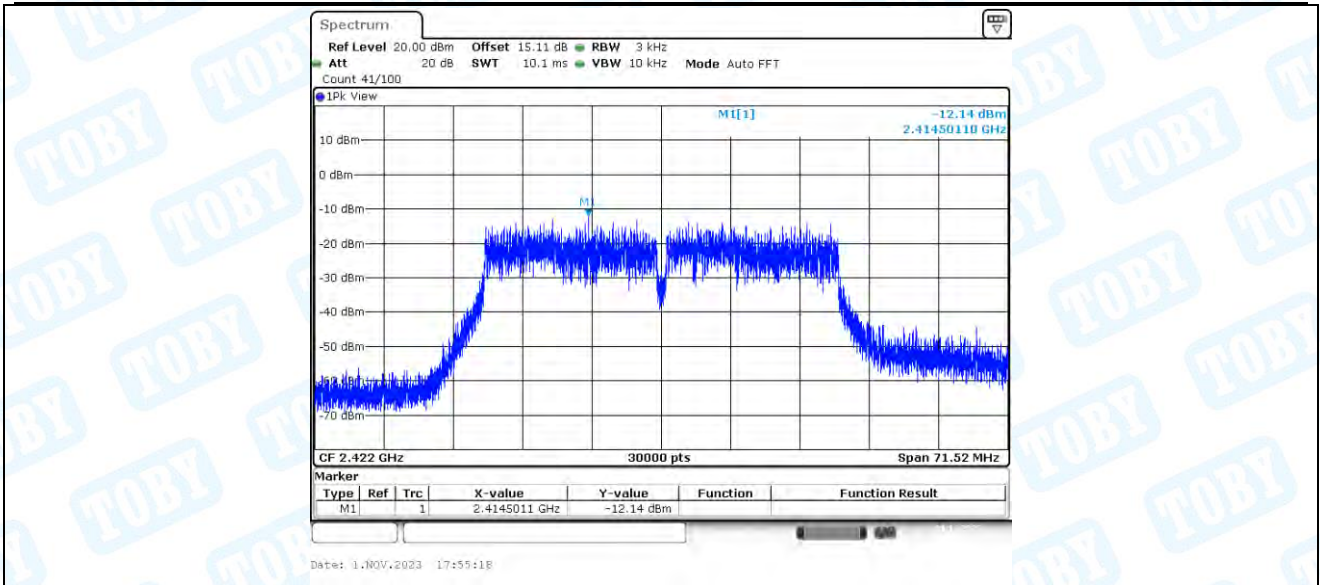
11N20-BF\_Ant1\_2462



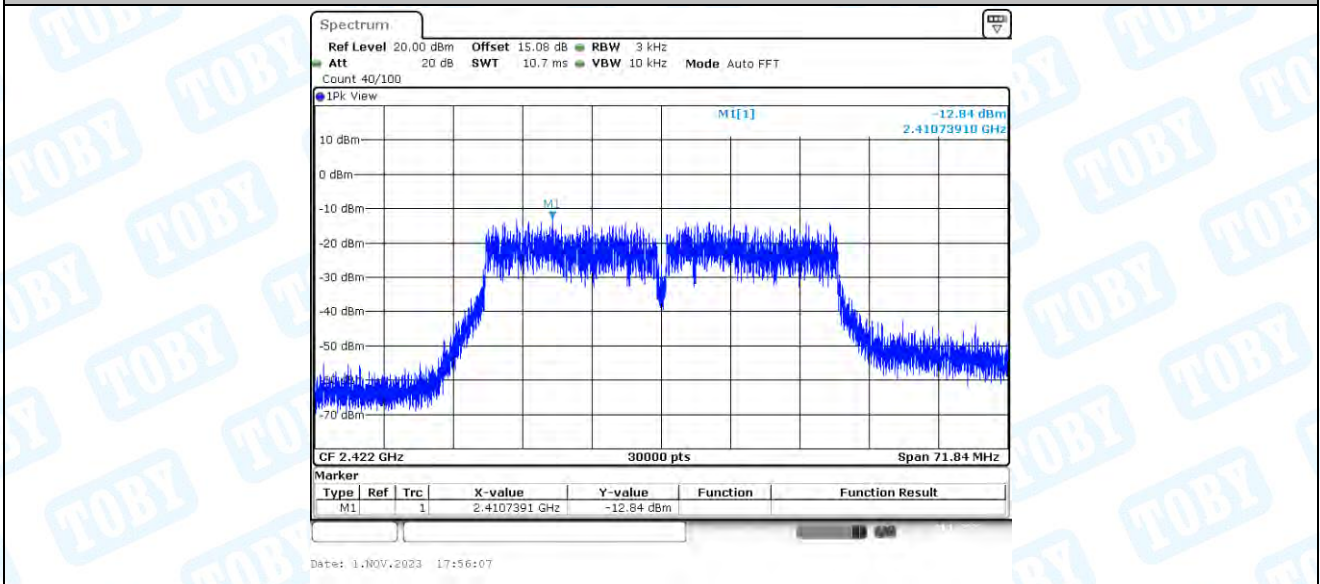
11N20-BF\_Ant2\_2462



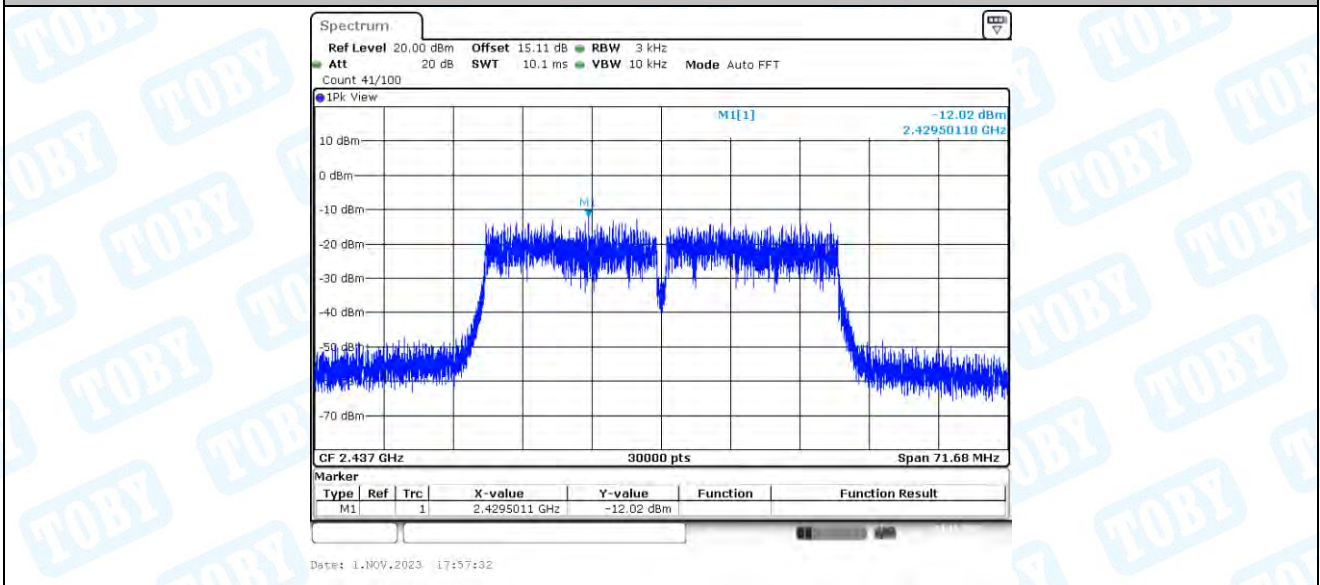
11N40-BF\_Ant1\_2422



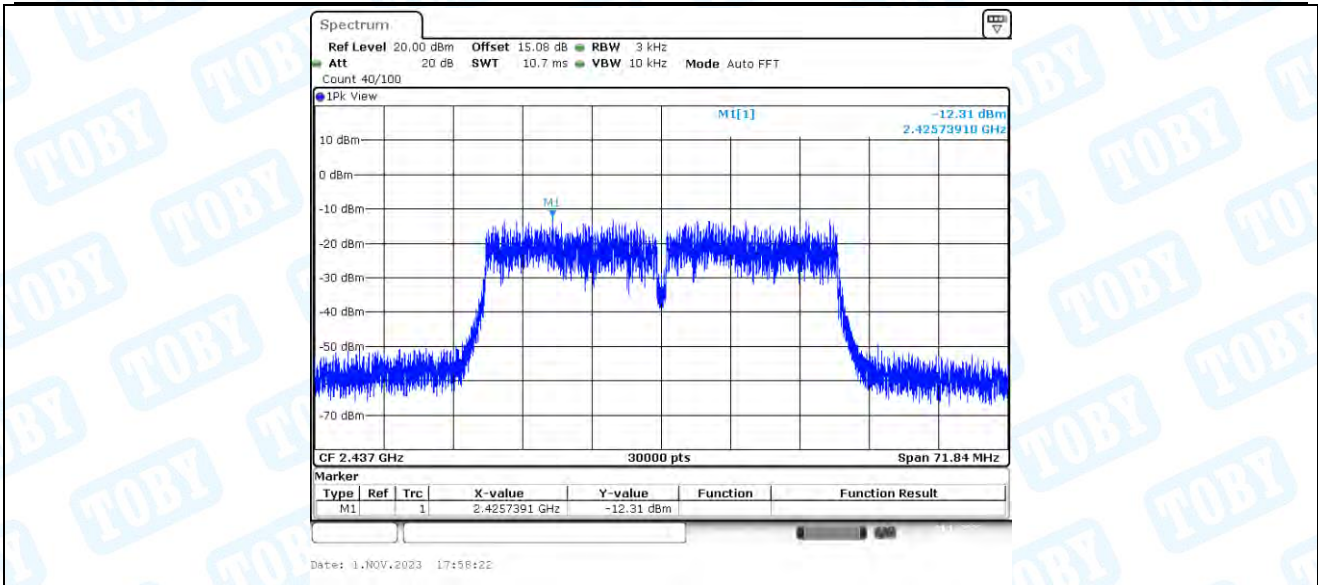
11N40-BF\_Ant2\_2422



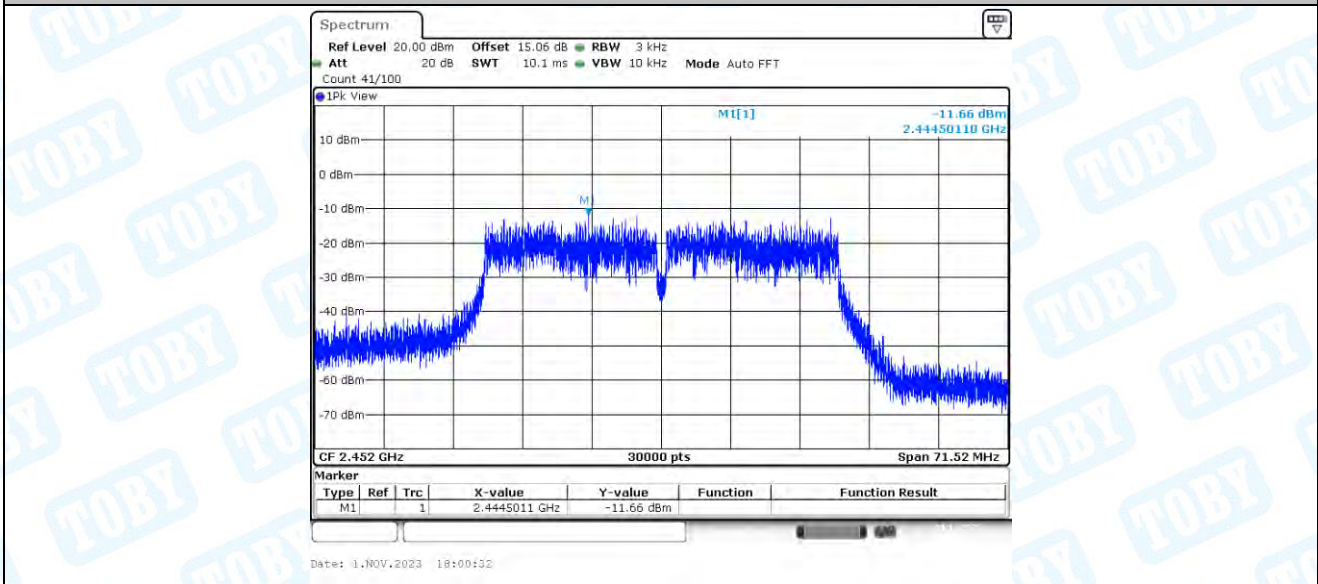
11N40-BF\_Ant1\_2437



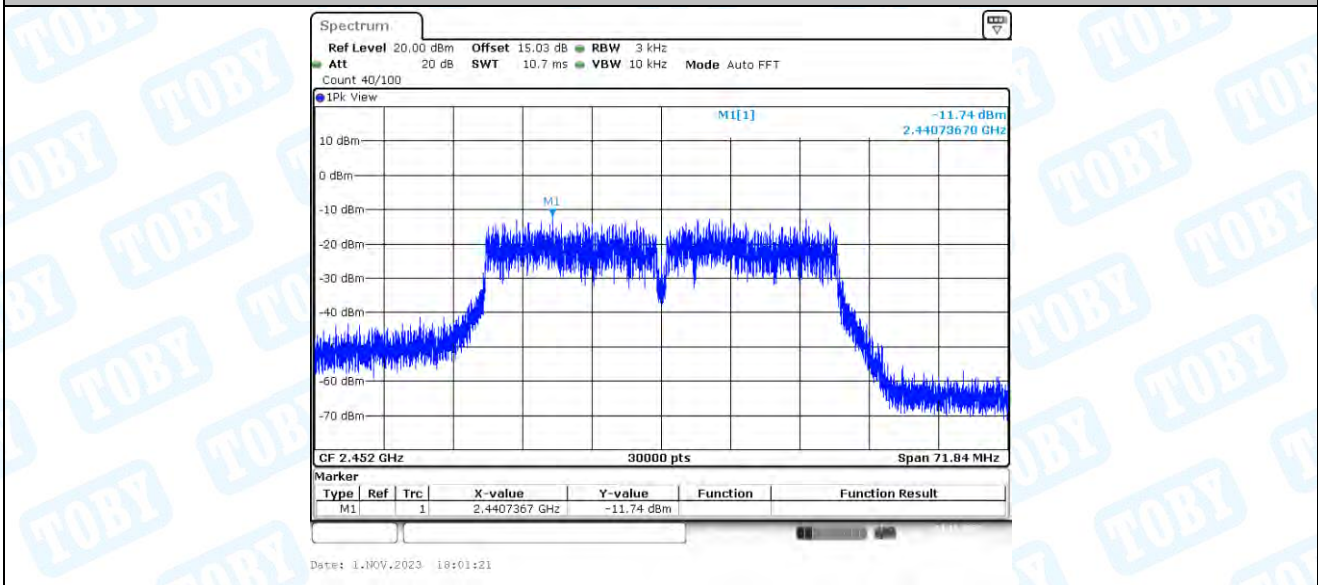
11N40-BF\_Ant2\_2437



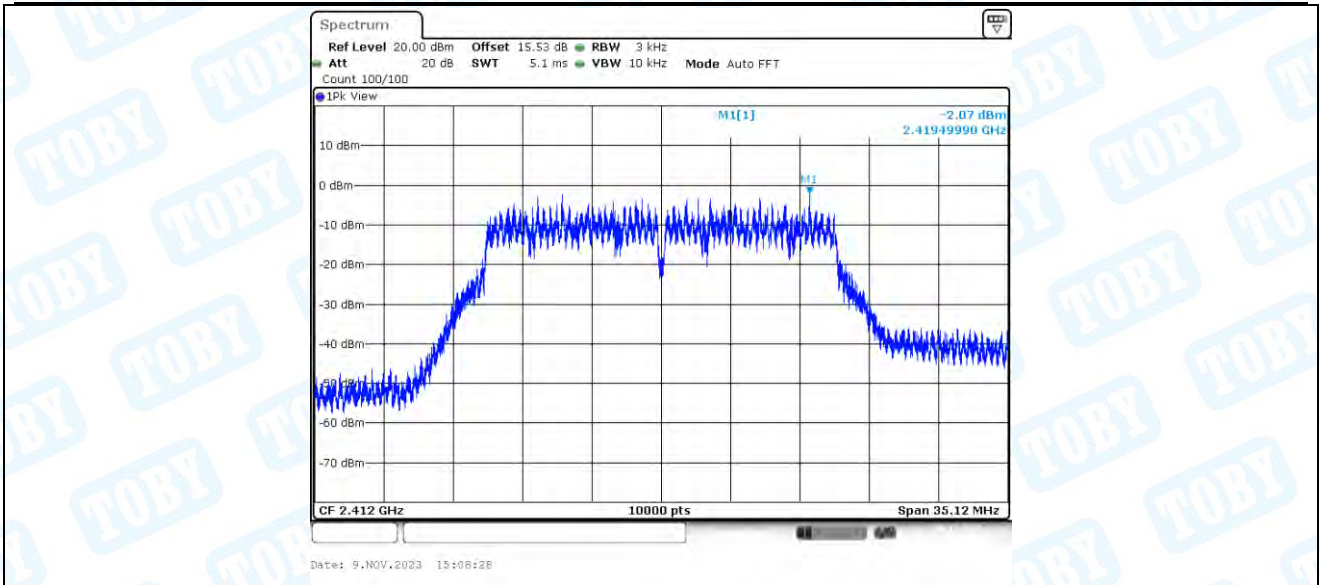
11N40-BF\_Ant1\_2452



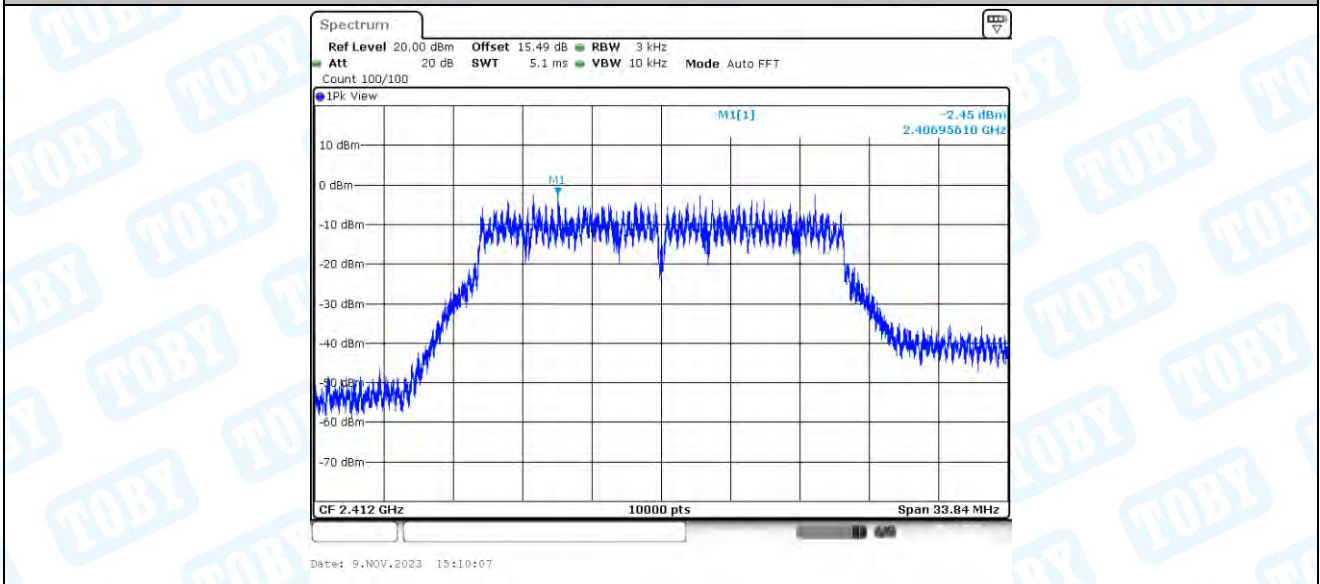
11N40-BF\_Ant2\_2452



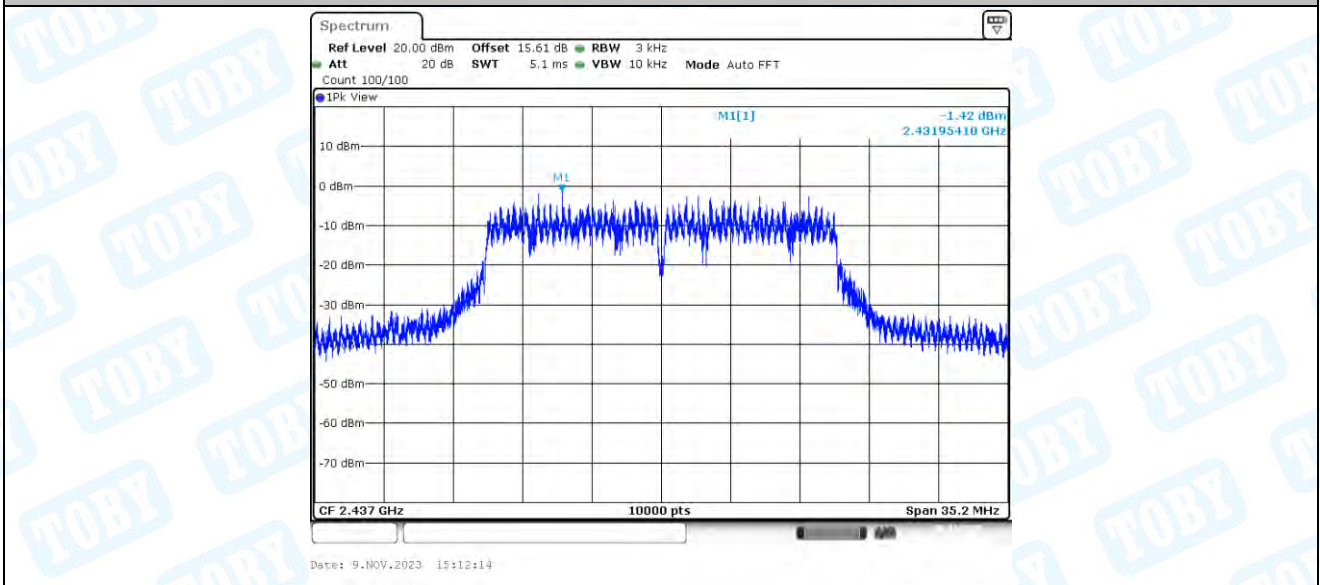
VHT20-CDD\_Ant1\_2412



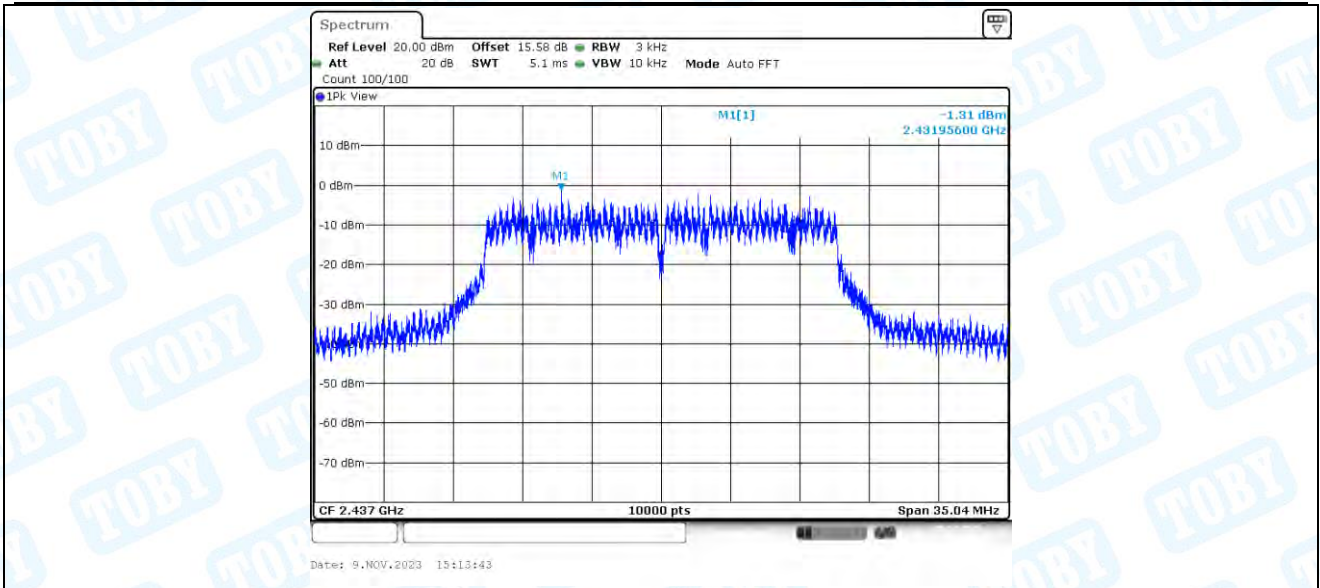
VHT20-CDD\_Ant2\_2412



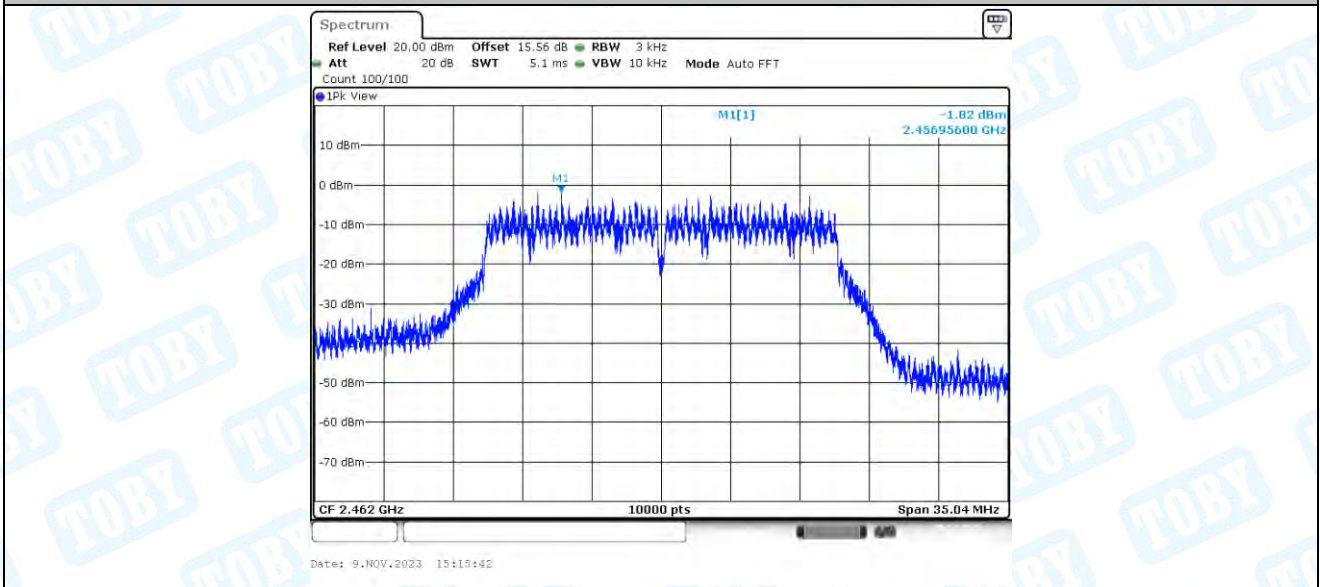
VHT20-CDD\_Ant1\_2437



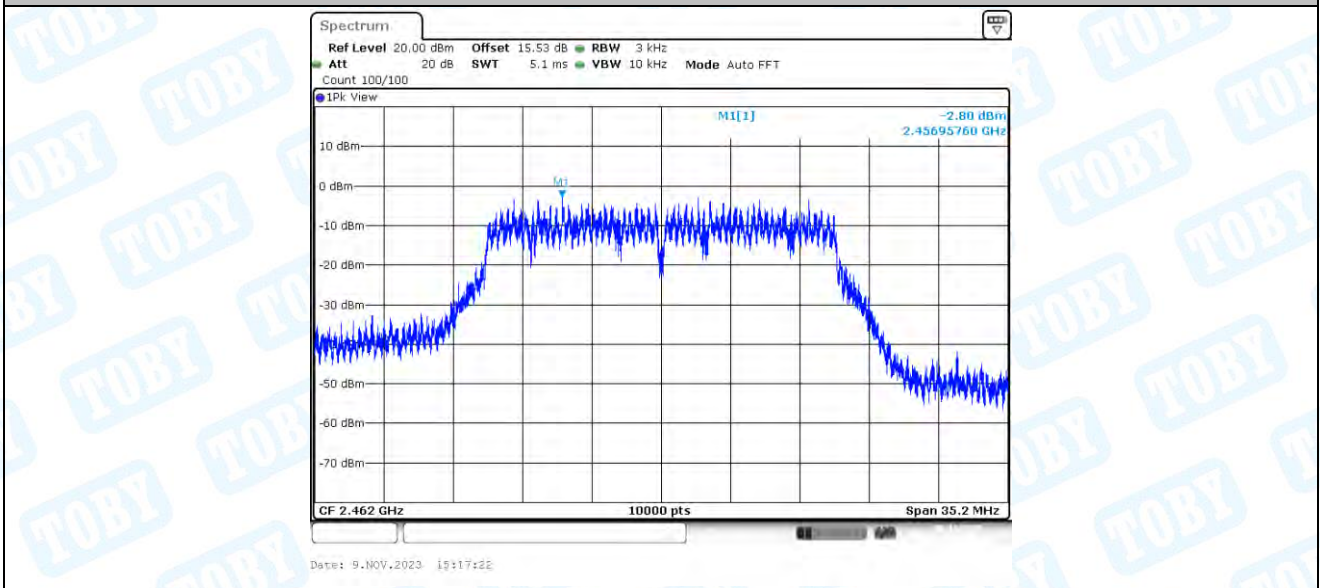
VHT20-CDD\_Ant2\_2437



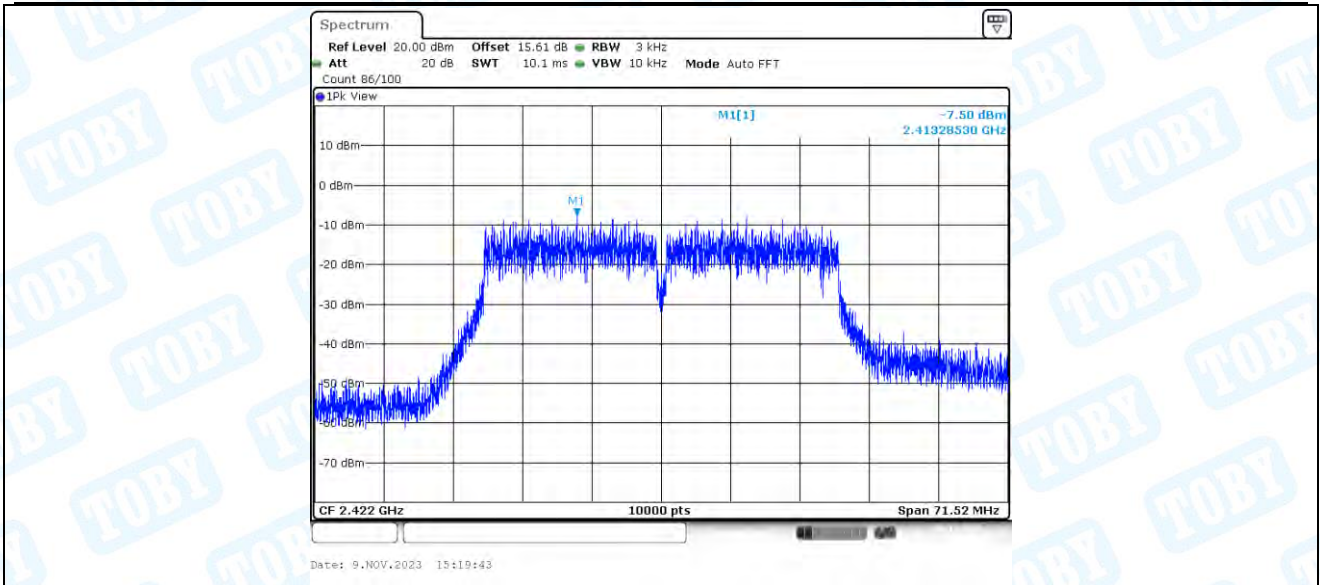
VHT20-CDD\_Ant1\_2462



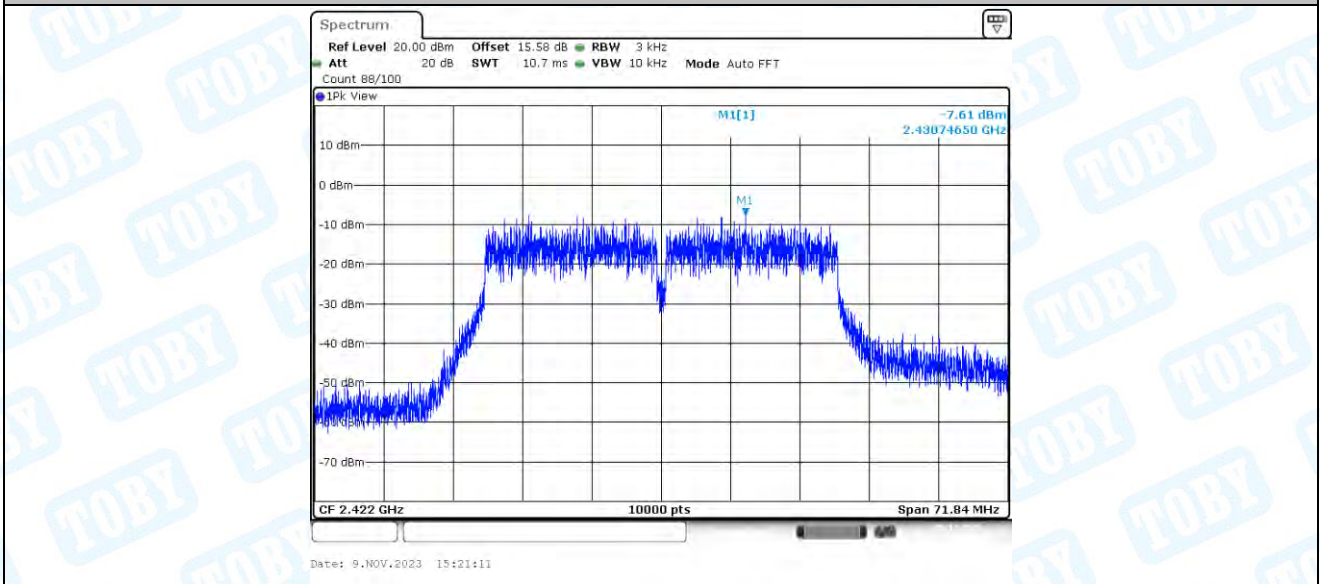
VHT20-CDD\_Ant2\_2462



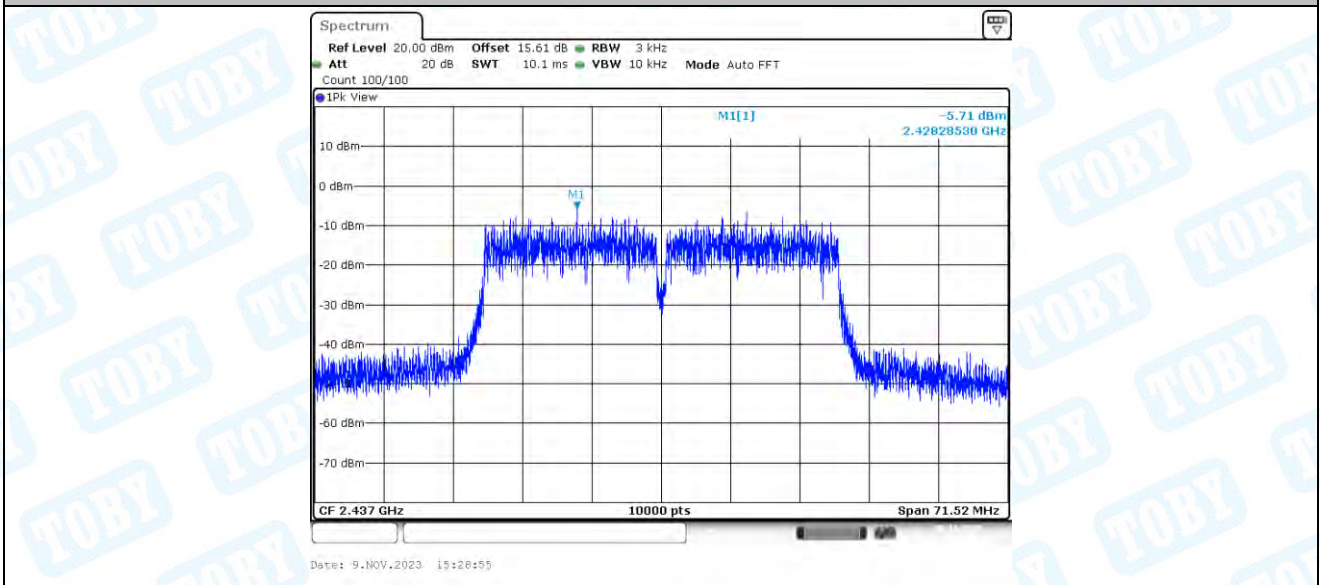
VHT40-CDD\_Ant1\_2422



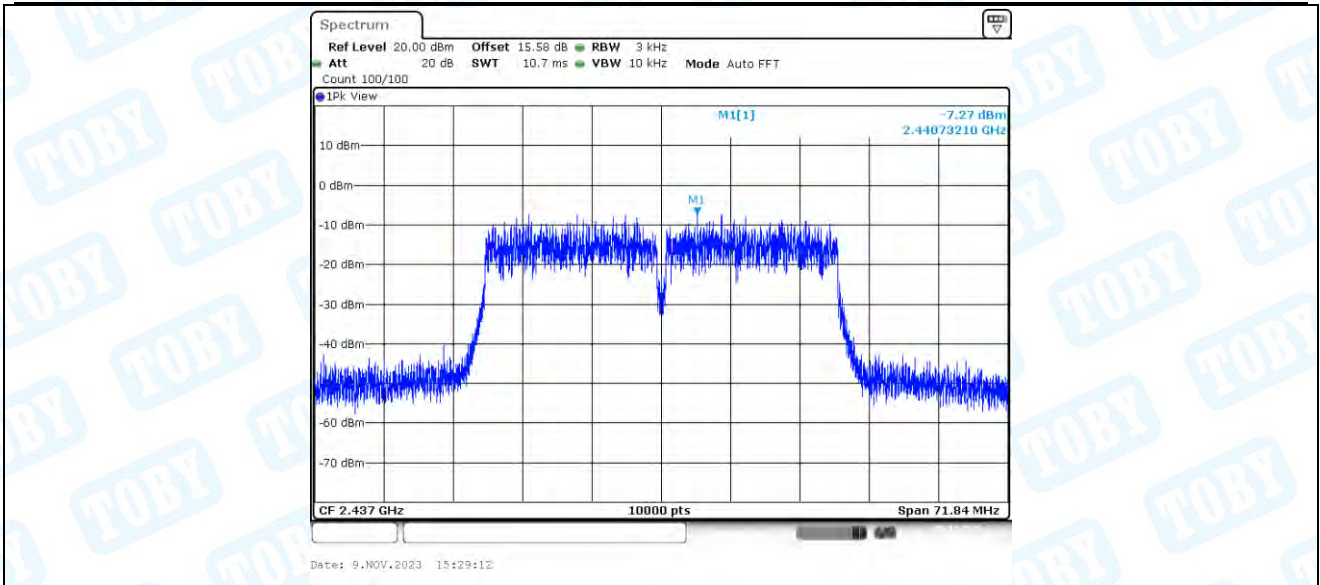
VHT40-CDD\_Ant2\_2422



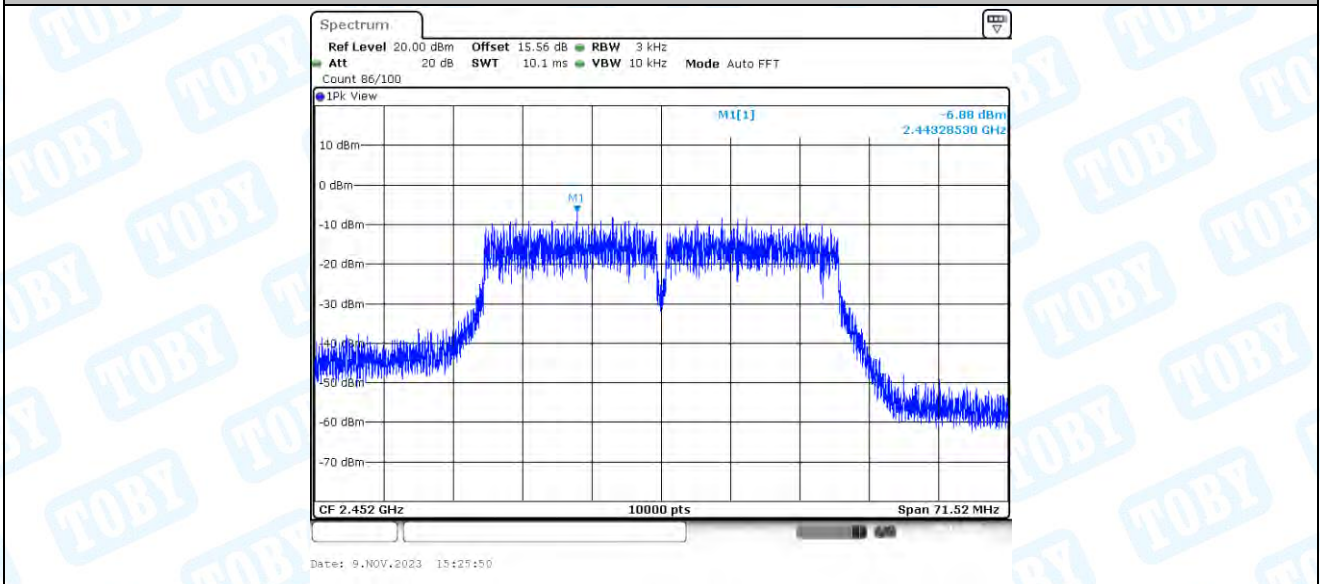
VHT40-CDD\_Ant1\_2437



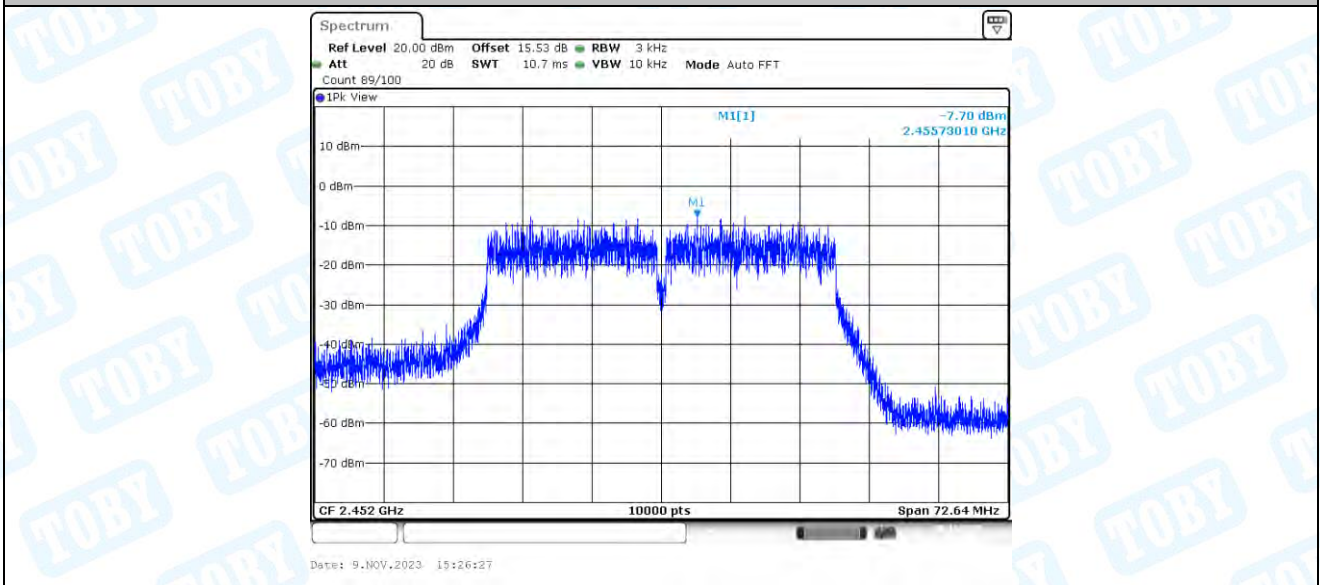
VHT40-CDD\_Ant2\_2437



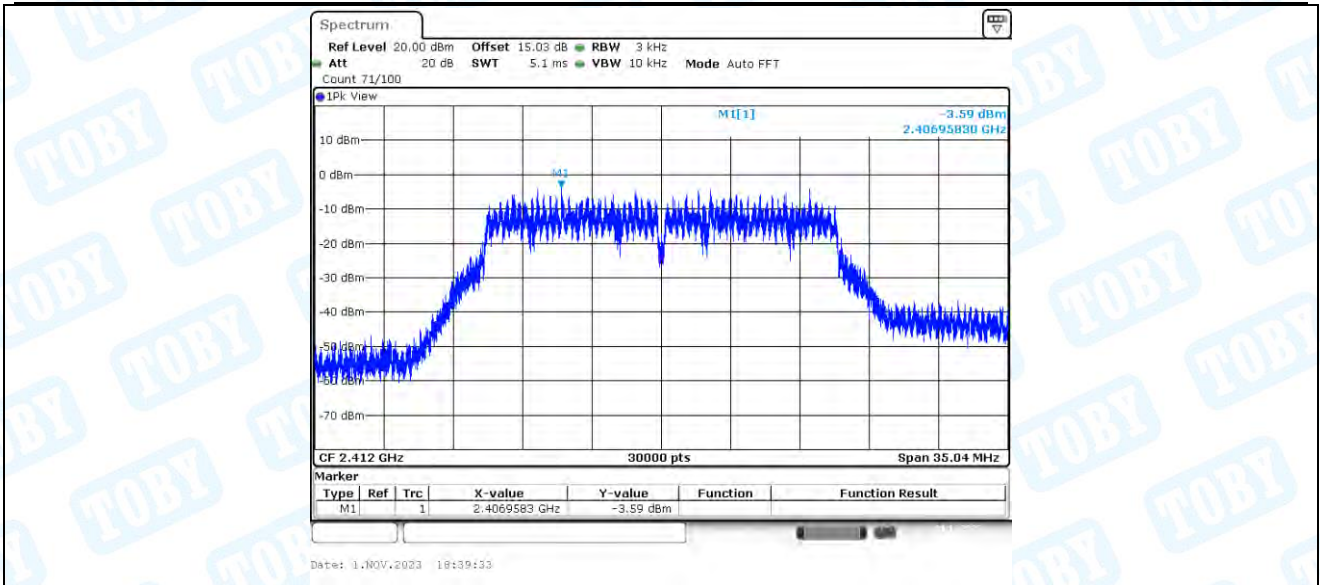
VHT40-CDD\_Ant1\_2452



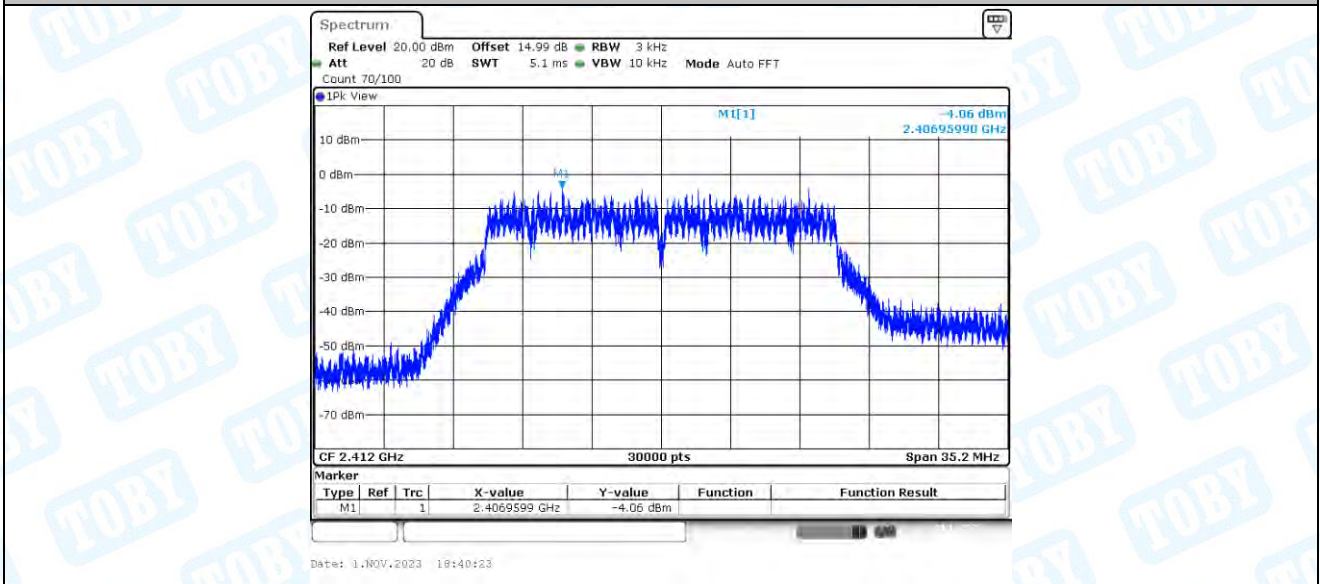
VHT40-CDD\_Ant2\_2452



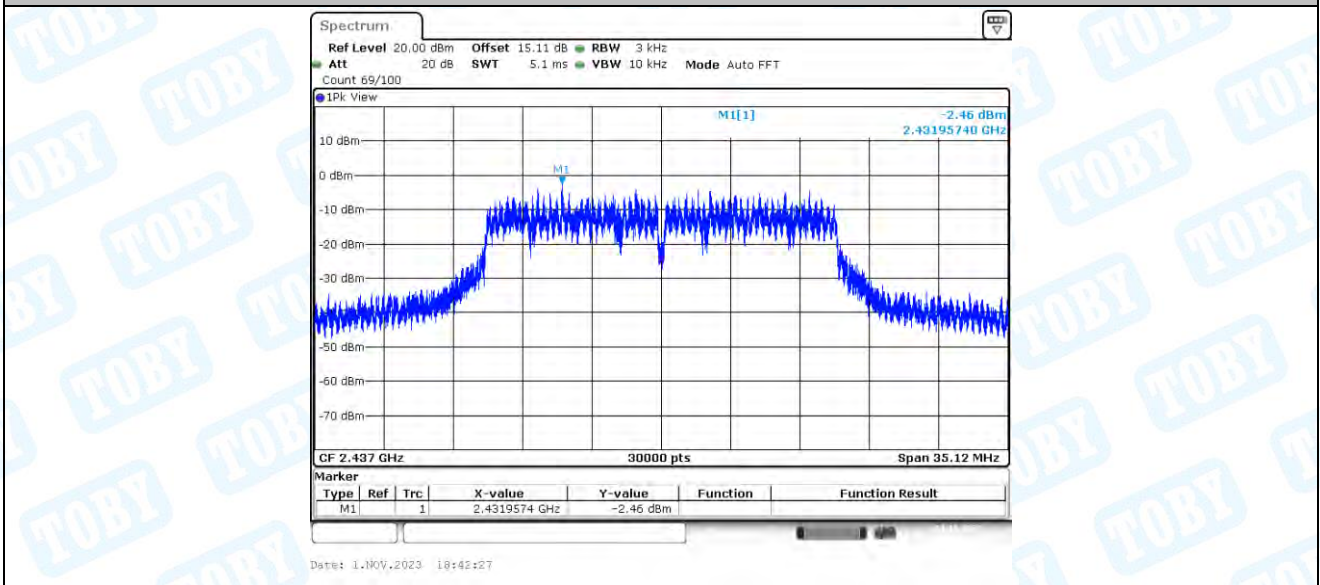
VHT20-BF\_Ant1\_2412



VHT20-BF\_Ant2\_2412

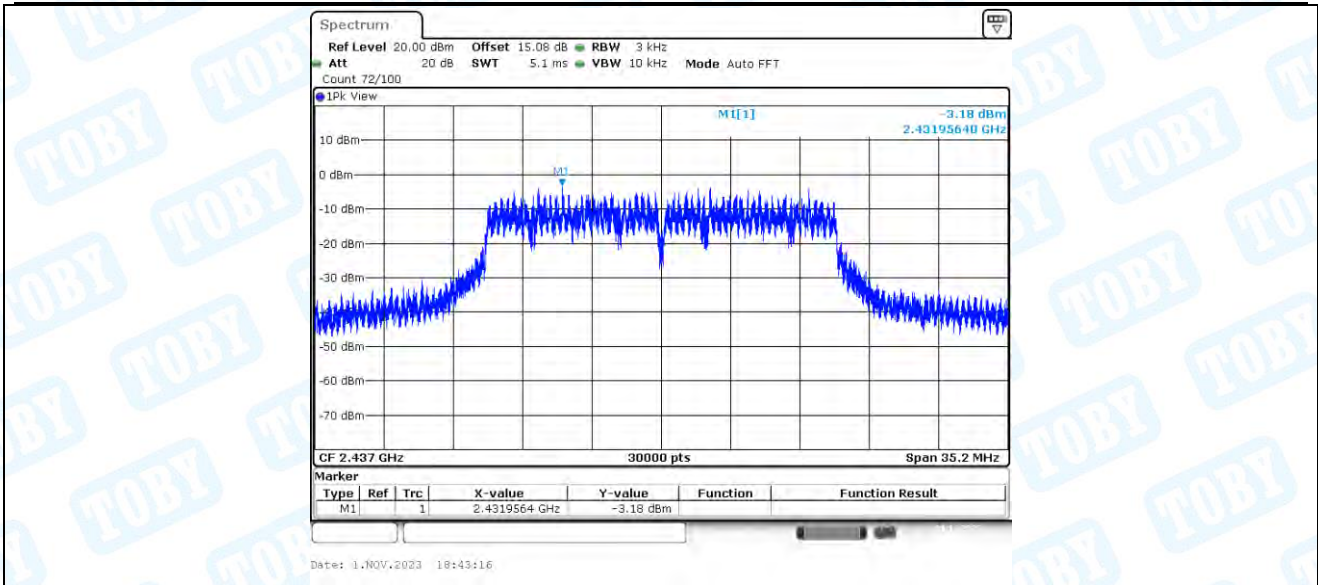


VHT20-BF\_Ant1\_2437

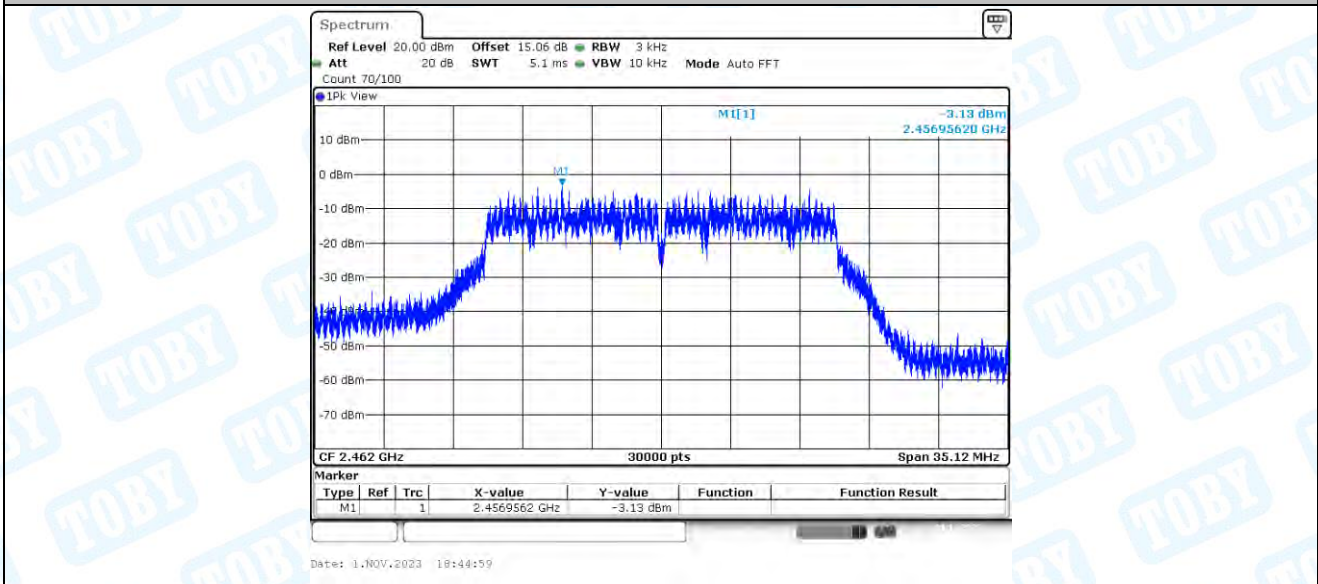


VHT20-BF\_Ant2\_2437

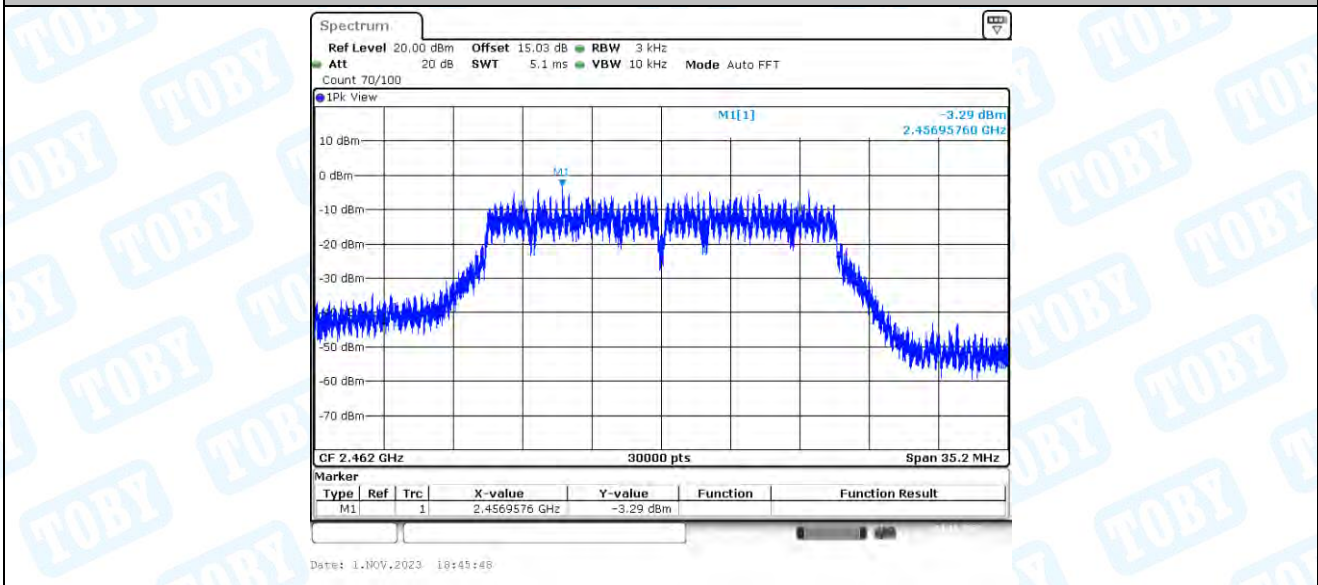




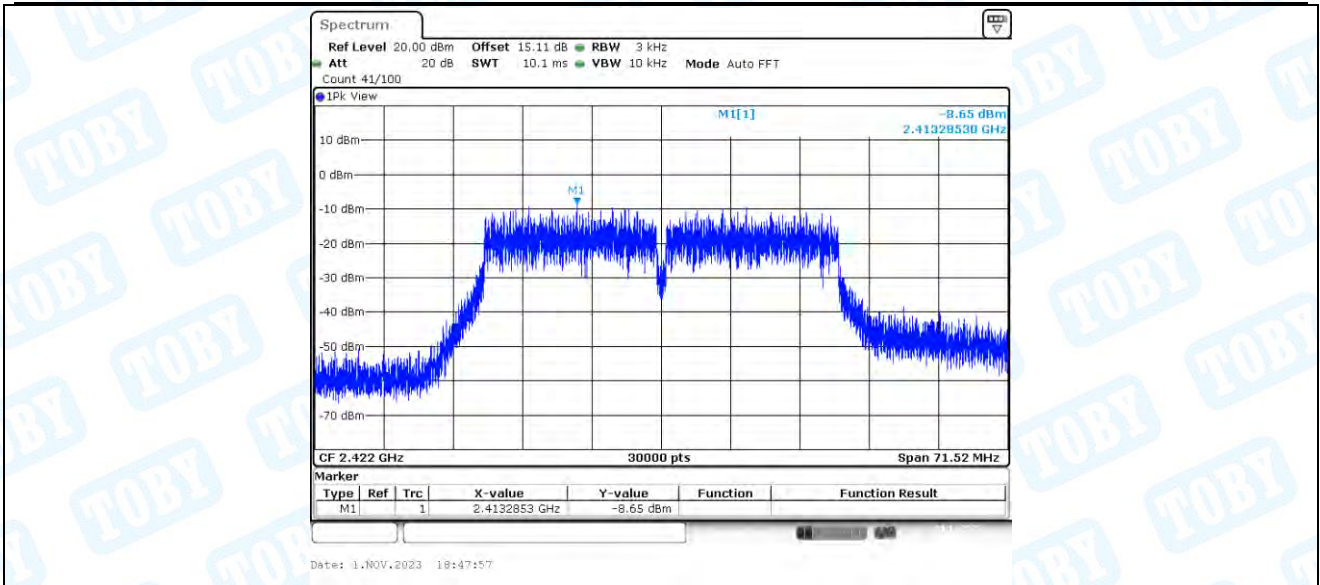
VHT20-BF\_Ant1\_2462



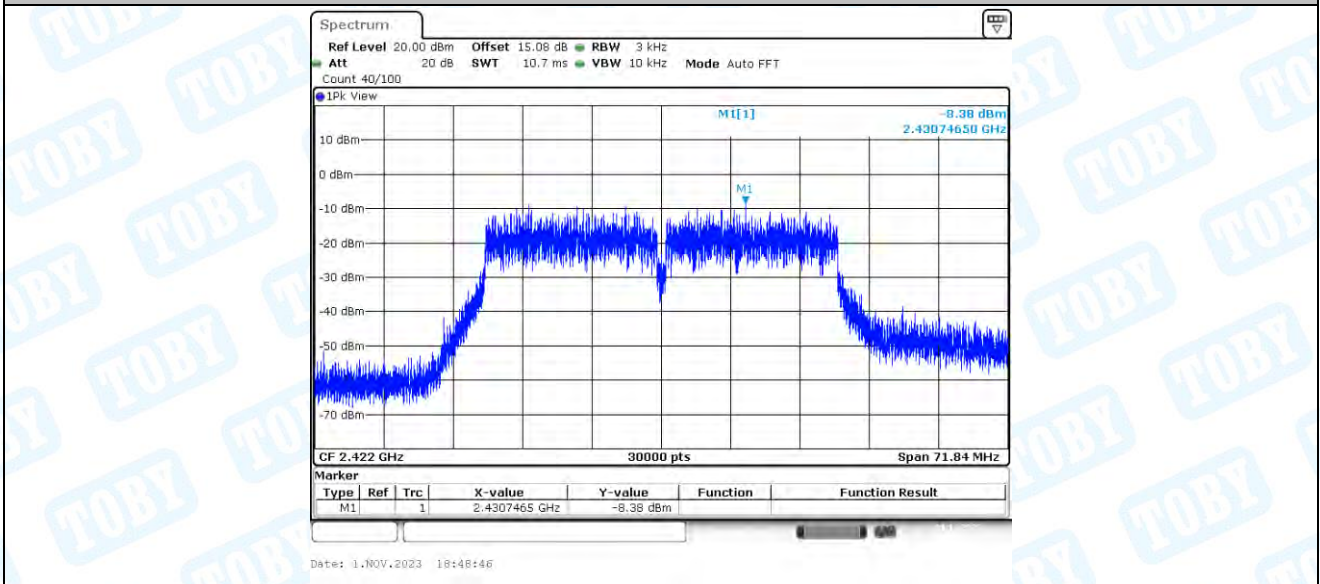
VHT20-BF\_Ant2\_2462



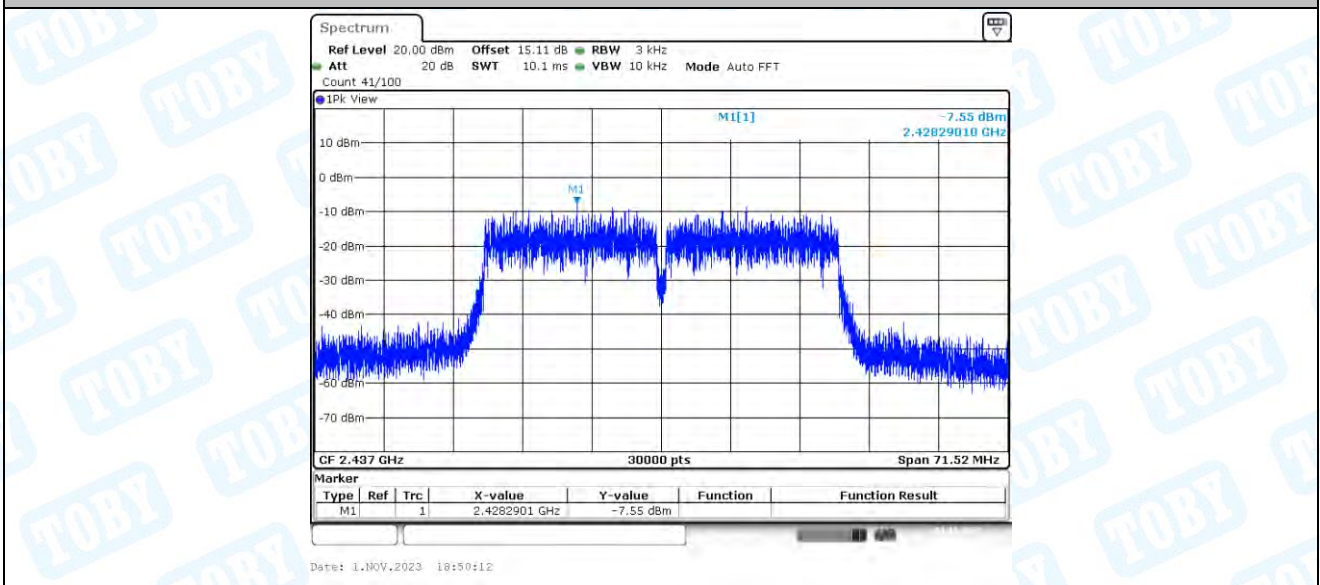
VHT40-BF\_Ant1\_2422



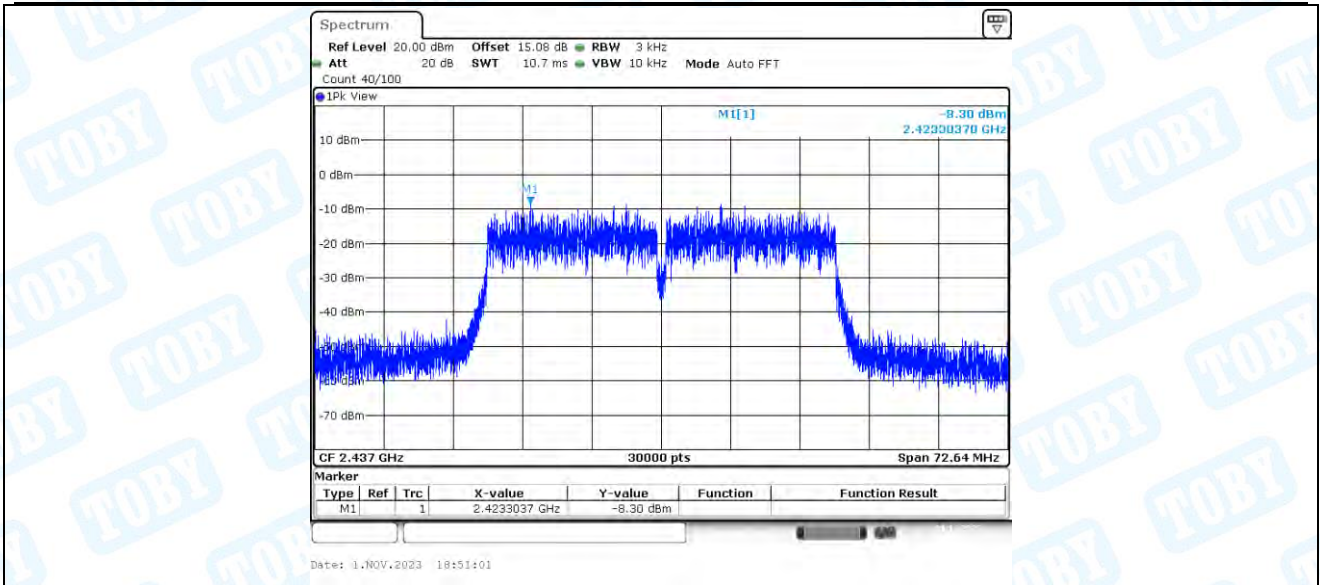
VHT40-BF\_Ant2\_2422



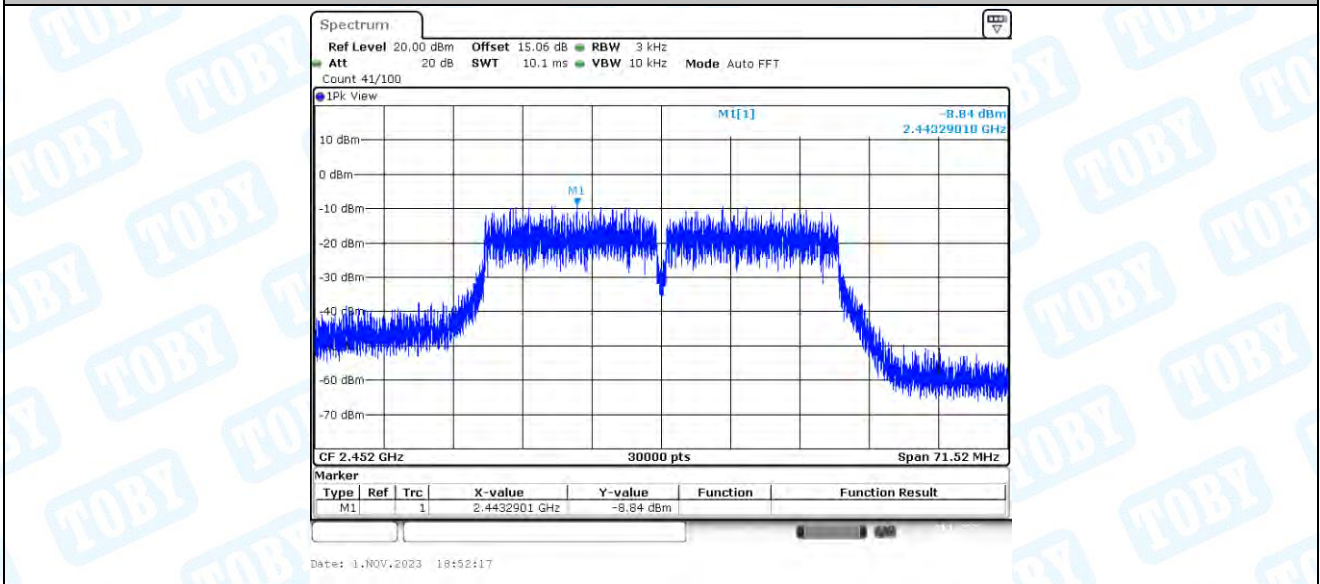
VHT40-BF\_Ant1\_2437



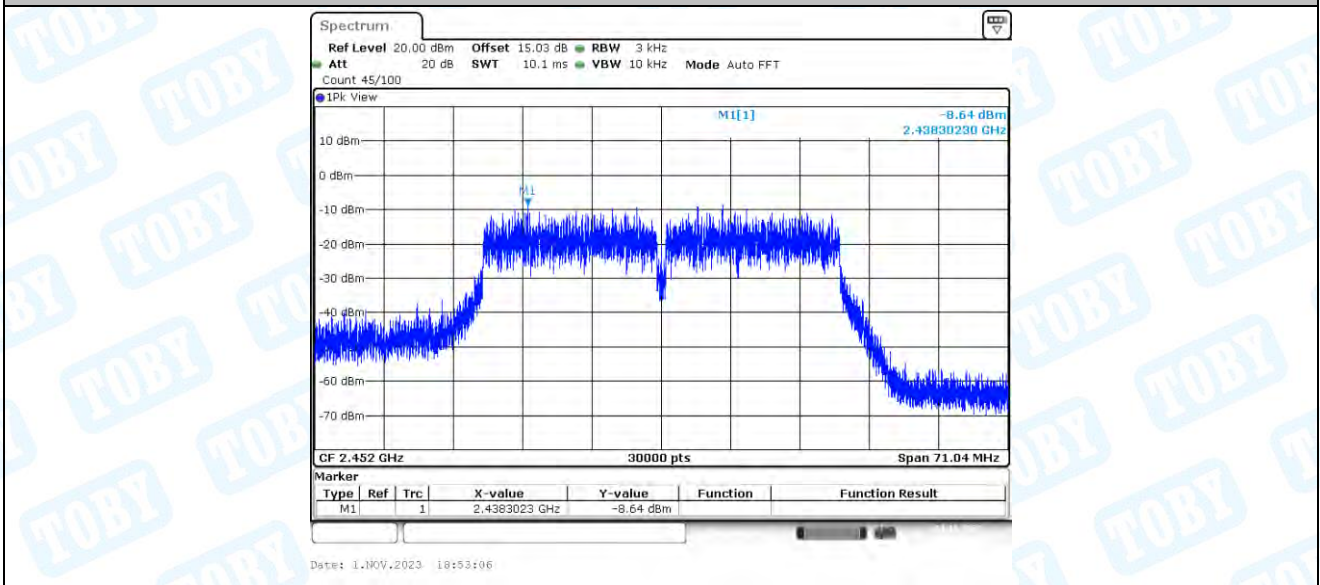
VHT40-BF\_Ant2\_2437



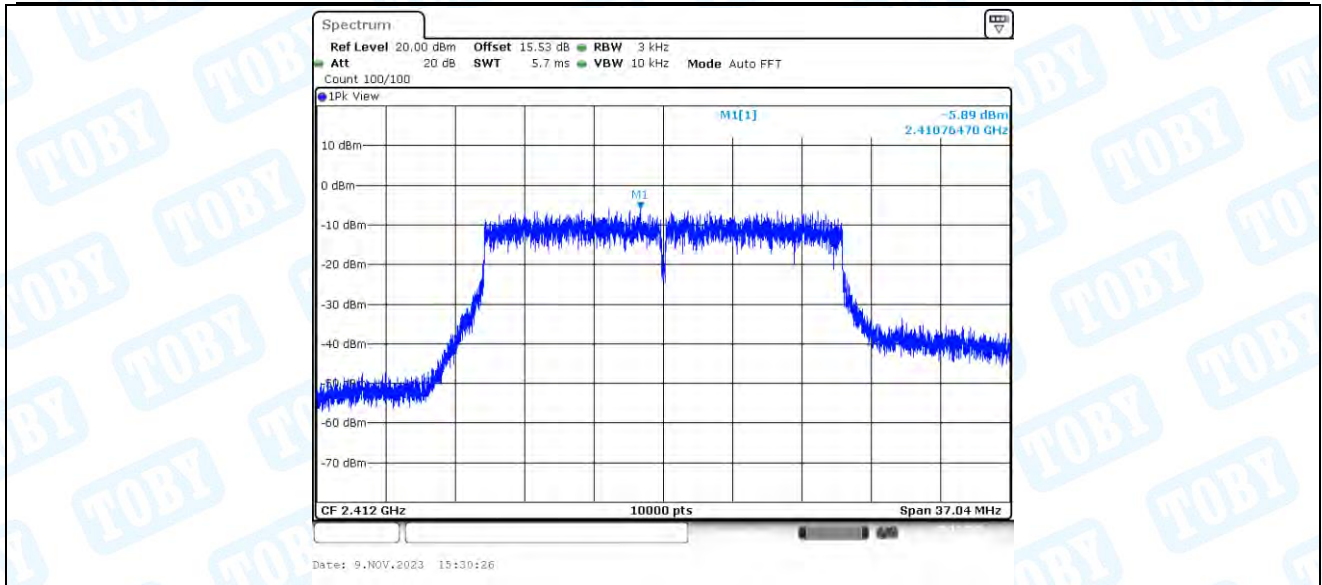
VHT40-BF\_Ant1\_2452



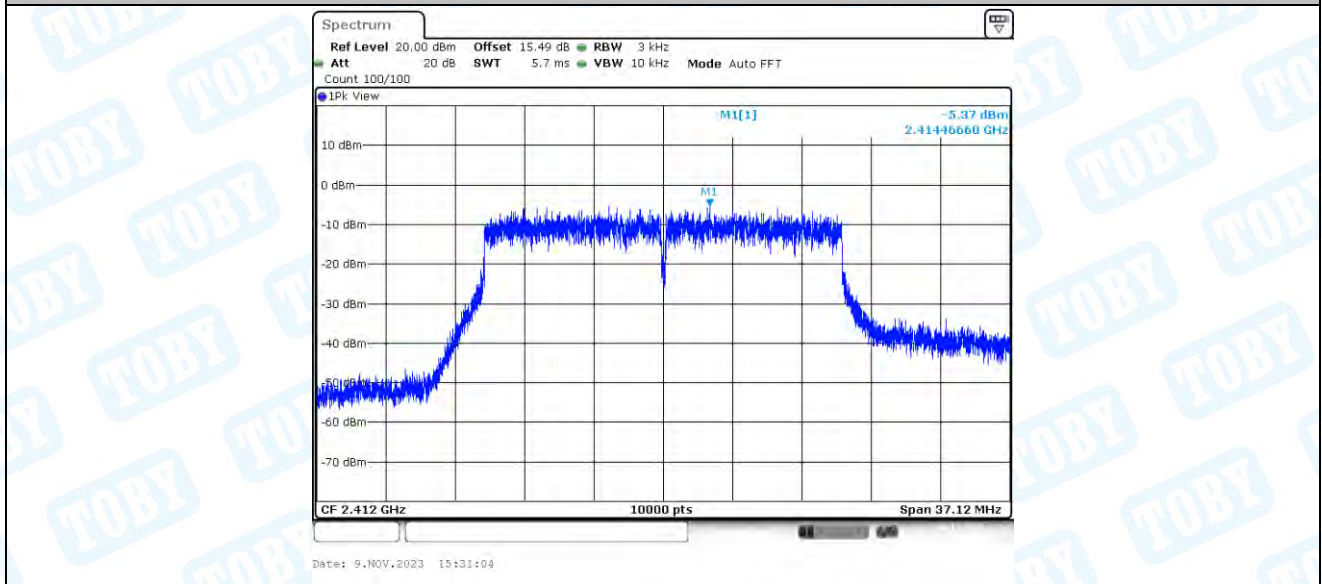
VHT40-BF\_Ant2\_2452



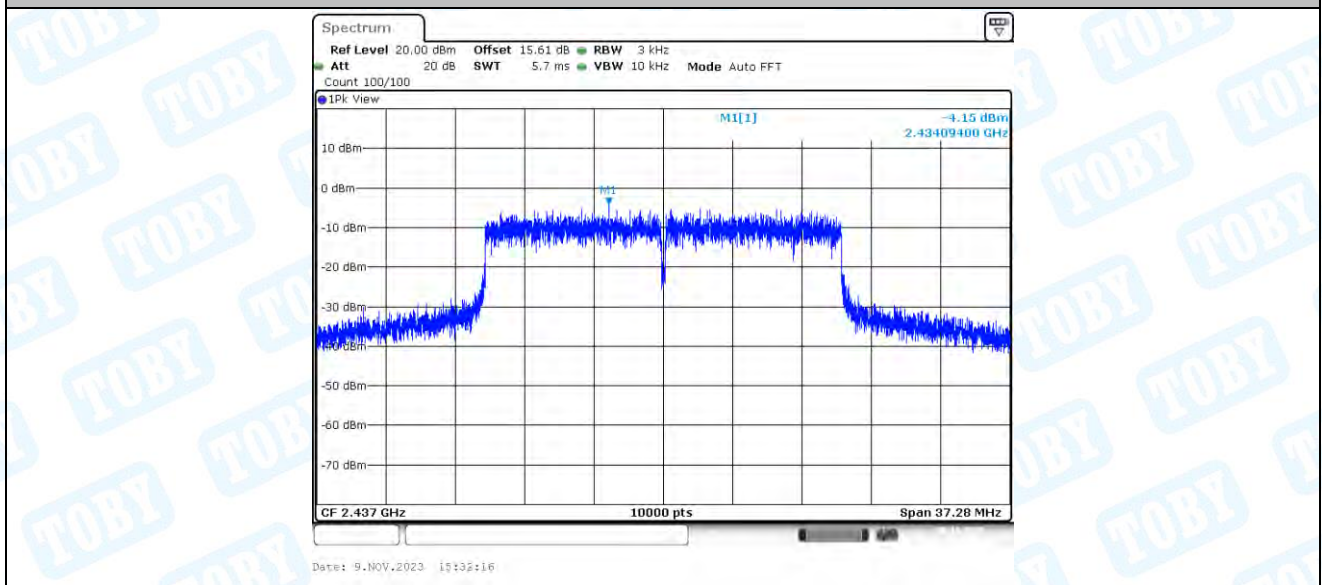
11AX20-CDD\_Ant1\_2412



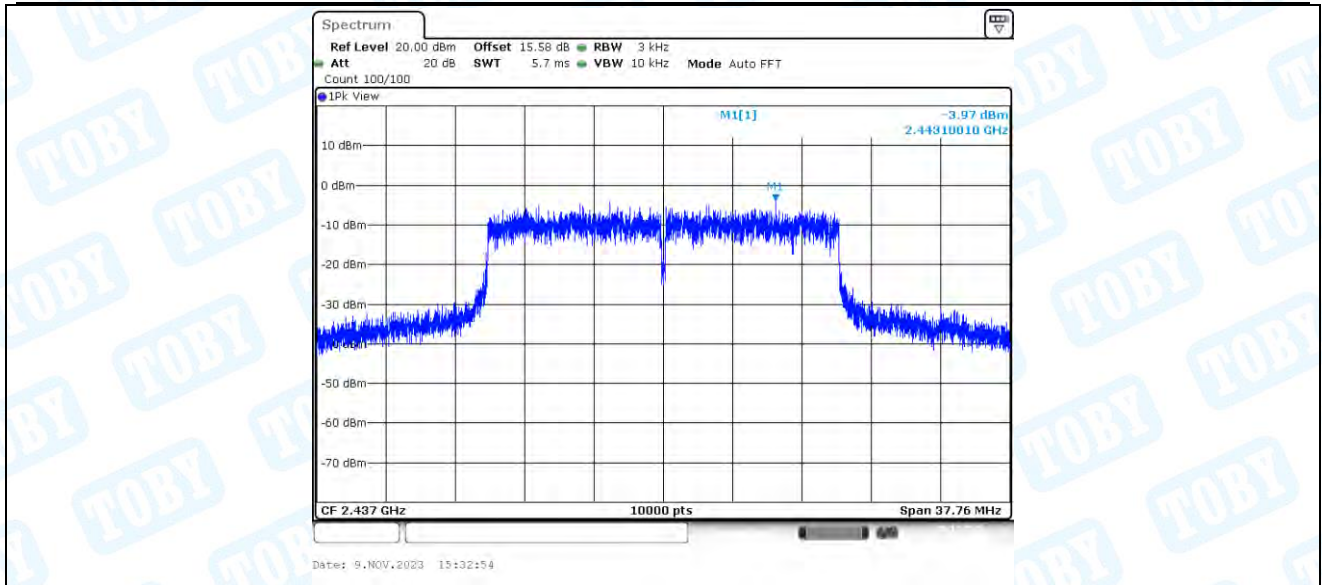
11AX20-CDD\_Ant2\_2412



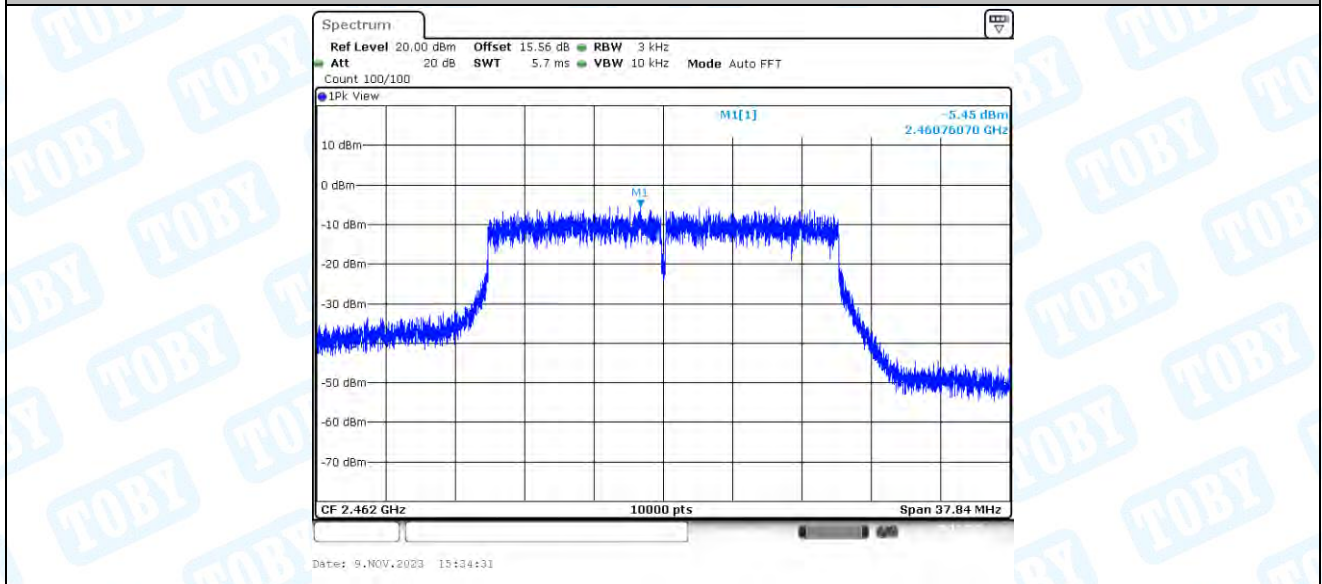
11AX20-CDD\_Ant1\_2437



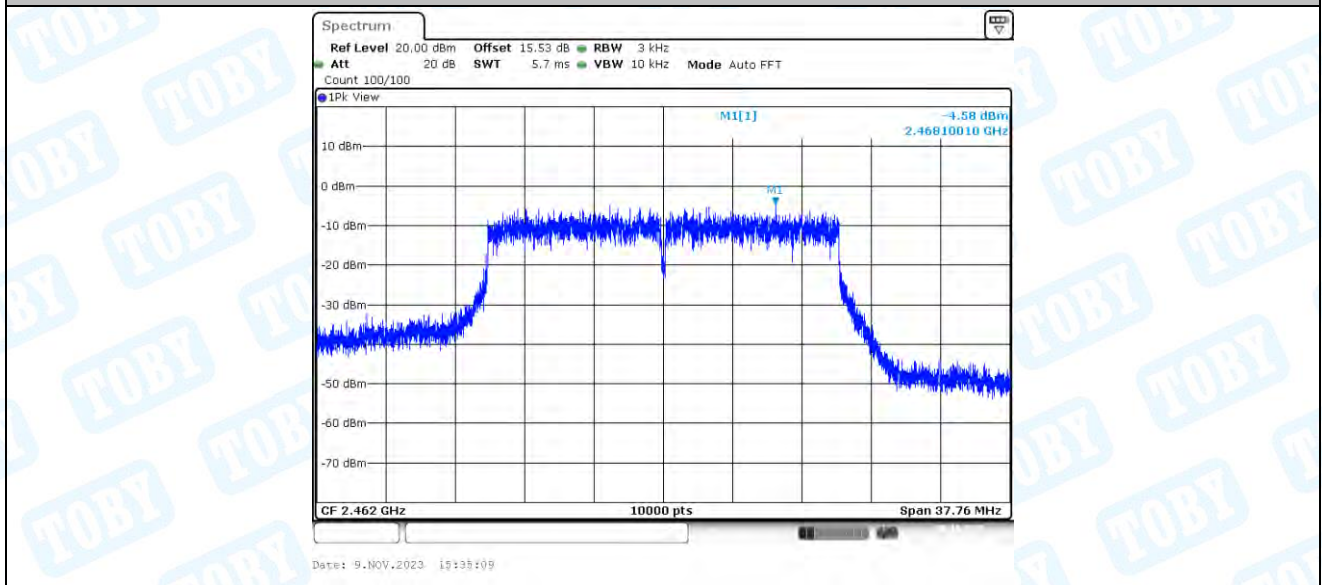
11AX20-CDD\_Ant2\_2437



11AX20-CDD\_Ant1\_2462



11AX20-CDD\_Ant2\_2462



11AX40-CDD\_Ant1\_2422