

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

General Description of EUT	
EUT Name:	2K Indoor Wi-Fi Camera
Model:	IC101A-PCW-AZ1
Sample ID:	HC-C-202505-0132-01-01-2#
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	45%RH
Test Power Supply:	DC 5V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202505-0132-71	

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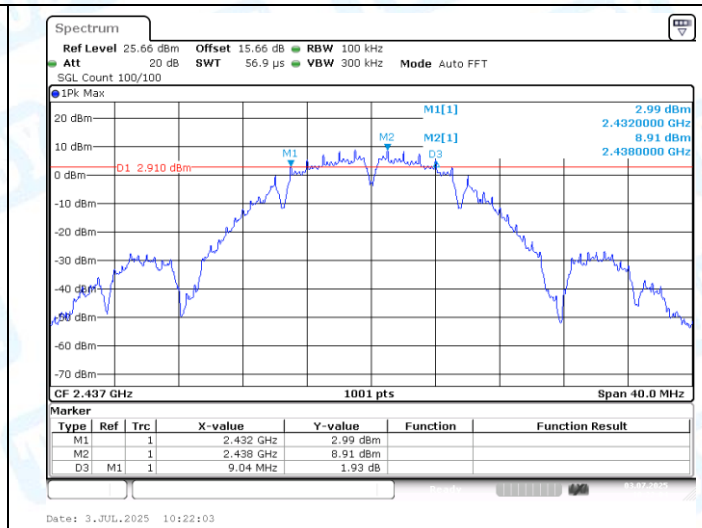
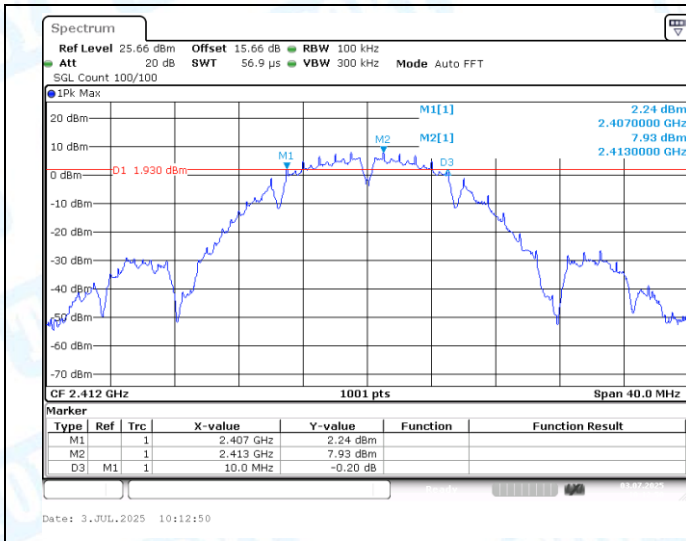
1: DTS Bandwidth

1.1 Test Result

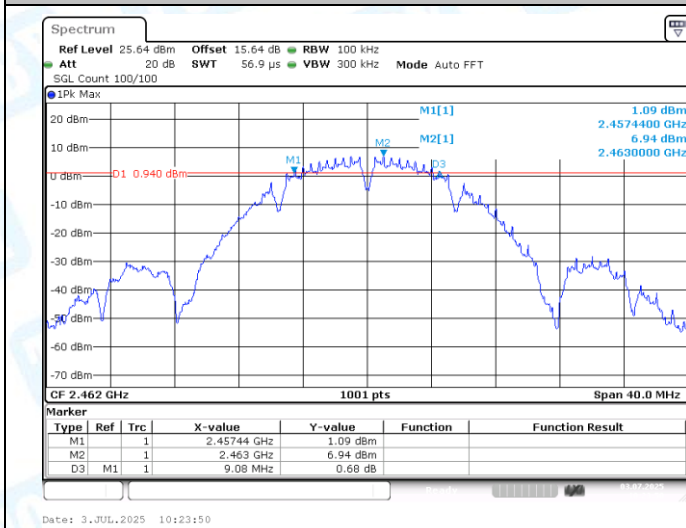
TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.00	2407.00	2417.00	0.5	PASS
11B	Ant1	2437	9.04	2432.00	2441.04	0.5	PASS
11B	Ant1	2462	9.08	2457.44	2466.52	0.5	PASS
11G	Ant1	2412	16.44	2403.76	2420.20	0.5	PASS
11G	Ant1	2437	16.08	2428.84	2444.92	0.5	PASS
11G	Ant1	2462	15.68	2453.88	2469.56	0.5	PASS
11N20SISO	Ant1	2412	17.68	2403.12	2420.80	0.5	PASS
11N20SISO	Ant1	2437	17.60	2428.20	2445.80	0.5	PASS
11N20SISO	Ant1	2462	17.68	2453.12	2470.80	0.5	PASS
11N40SISO	Ant1	2422	36.32	2403.84	2440.16	0.5	PASS
11N40SISO	Ant1	2437	36.40	2418.76	2455.16	0.5	PASS
11N40SISO	Ant1	2452	36.32	2433.84	2470.16	0.5	PASS
11AX20SISO	Ant1	2412	18.96	2402.48	2421.44	0.5	PASS
11AX20SISO	Ant1	2437	18.96	2427.52	2446.48	0.5	PASS
11AX20SISO	Ant1	2462	18.48	2452.60	2471.08	0.5	PASS
11AX40SISO	Ant1	2422	36.24	2403.12	2439.36	0.5	PASS
11AX40SISO	Ant1	2437	38.08	2417.96	2456.04	0.5	PASS
11AX40SISO	Ant1	2452	37.36	2433.12	2470.48	0.5	PASS

Note: RF Conducted test Offset= cable loss+Attenuator(10dB).

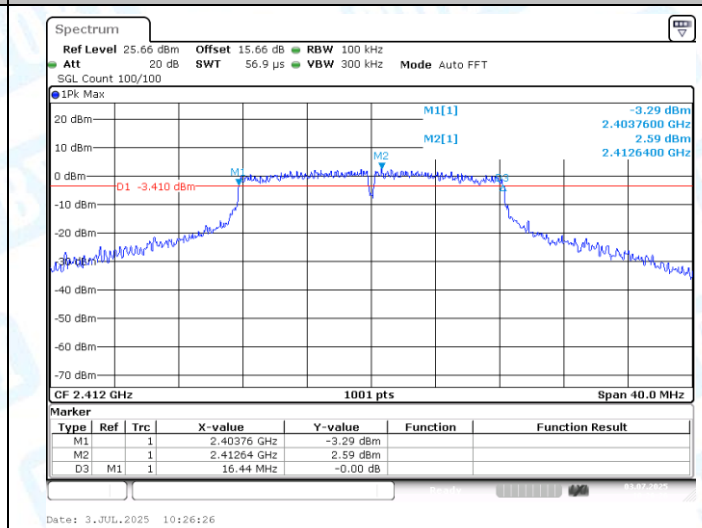
1.2 Test Graphs



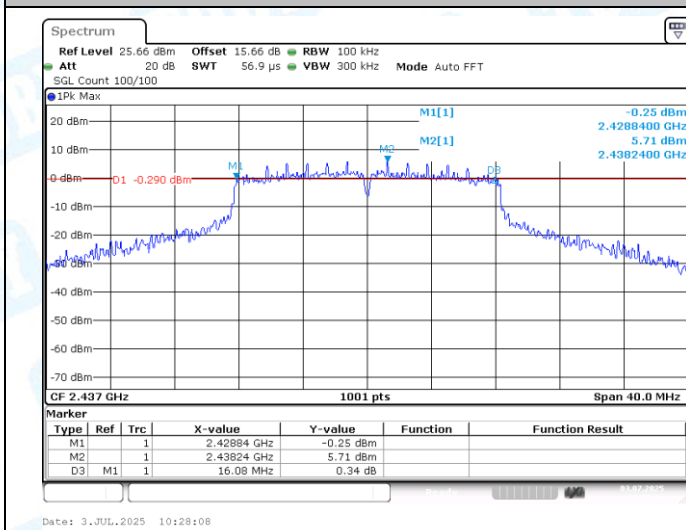
11B-Ant1-2412-PASS



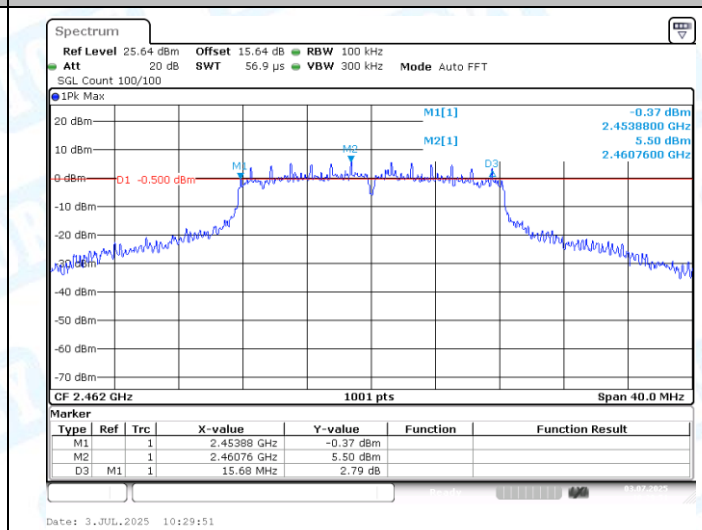
11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

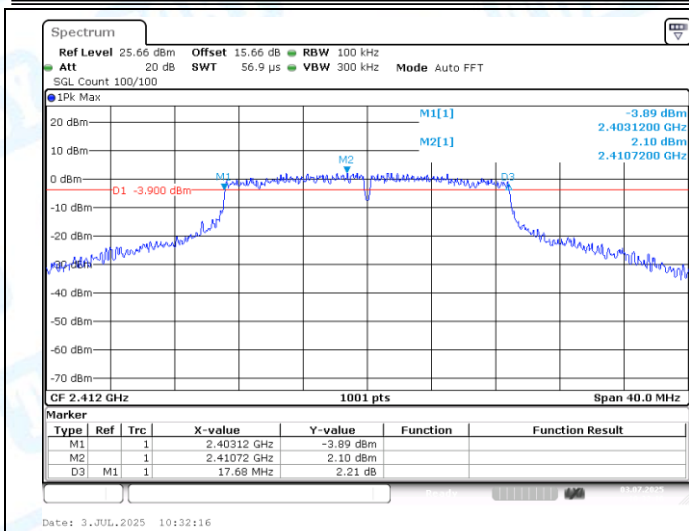


11G-Ant1-2412-PASS

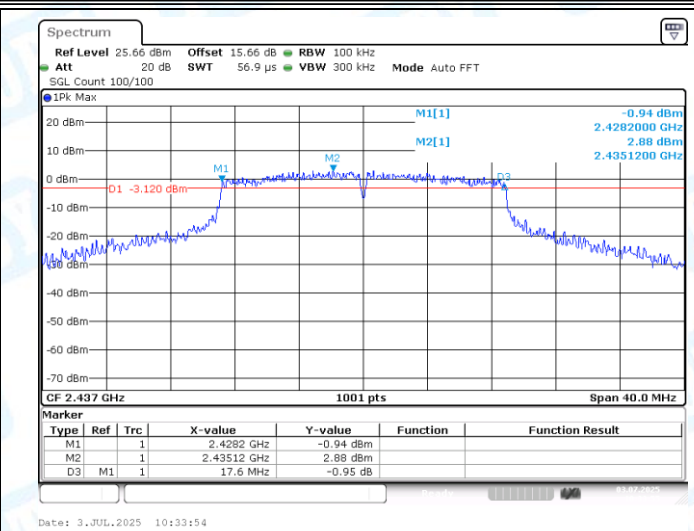


11G-Ant1-2437-PASS

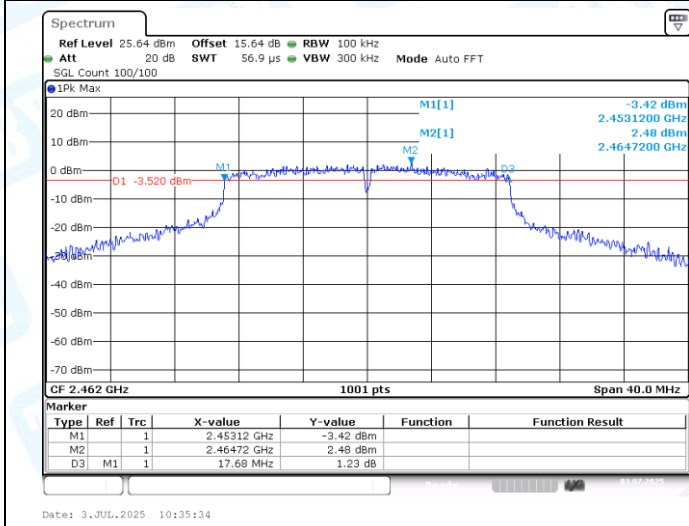
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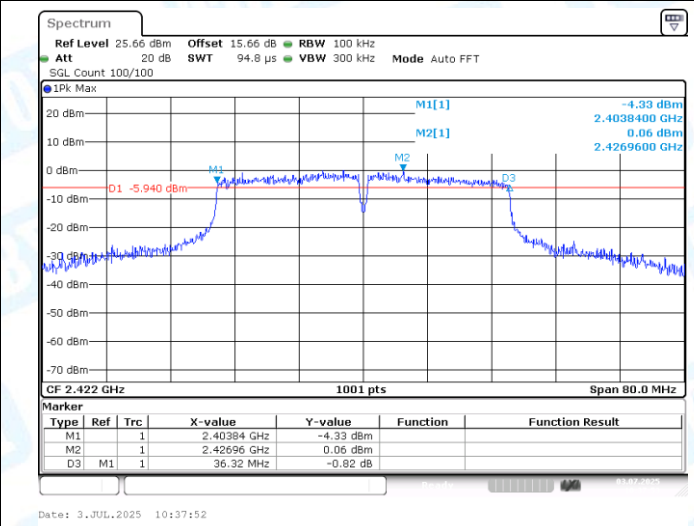
11N20SISO-Ant1-2412-PASS



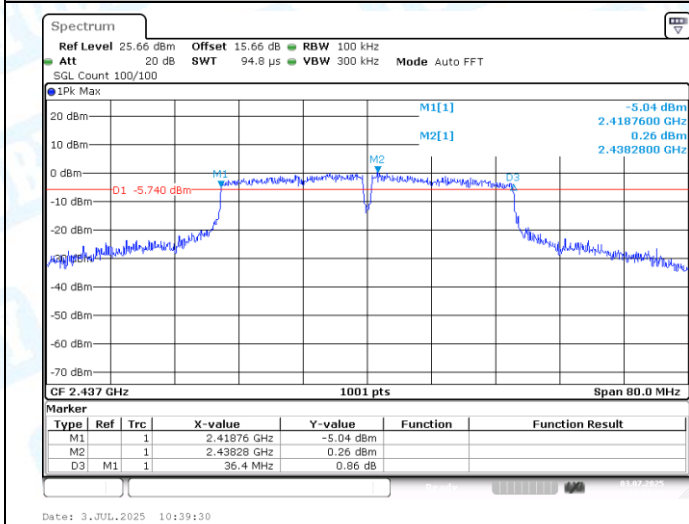
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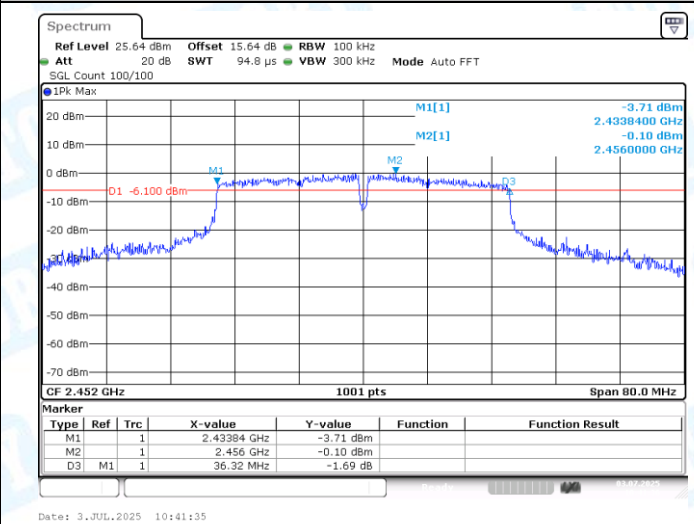
11N20SISO-Ant1-2462-PASS



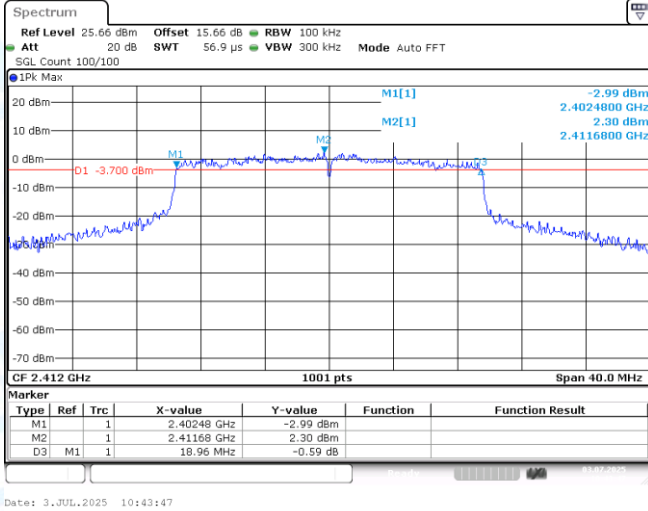
11N40SISO-Ant1-2422-PASS



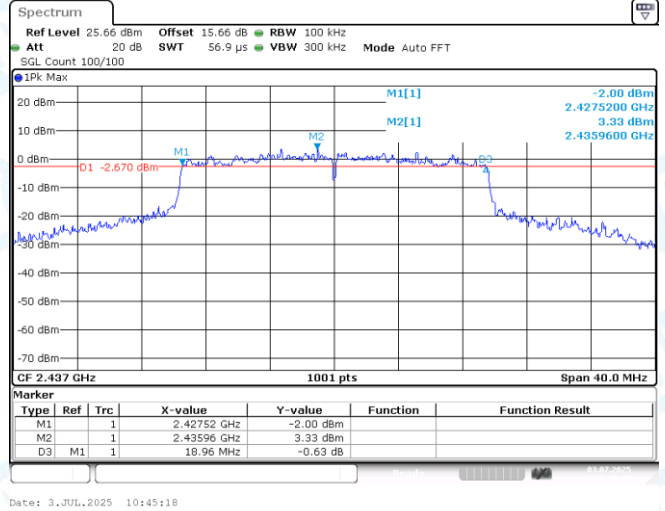
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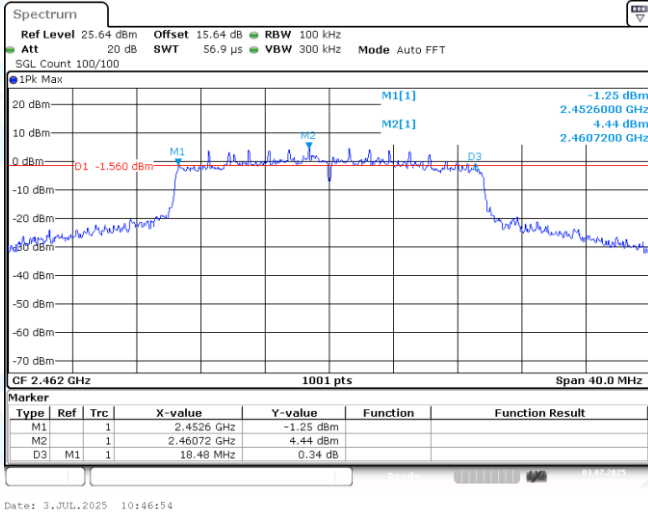
11N40SISO-Ant1-2452-PASS



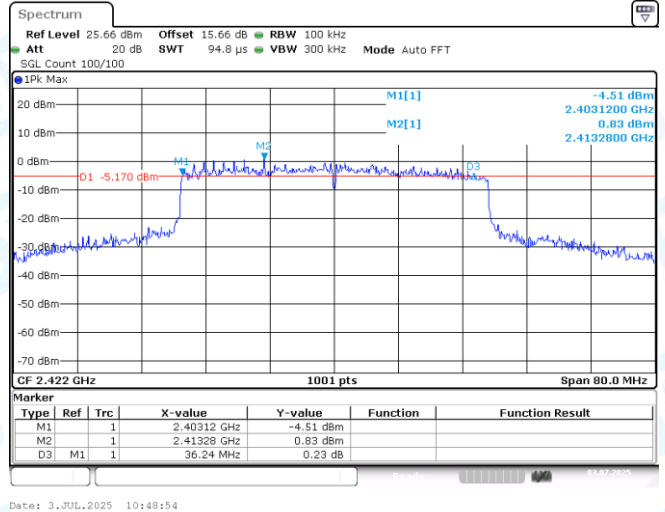
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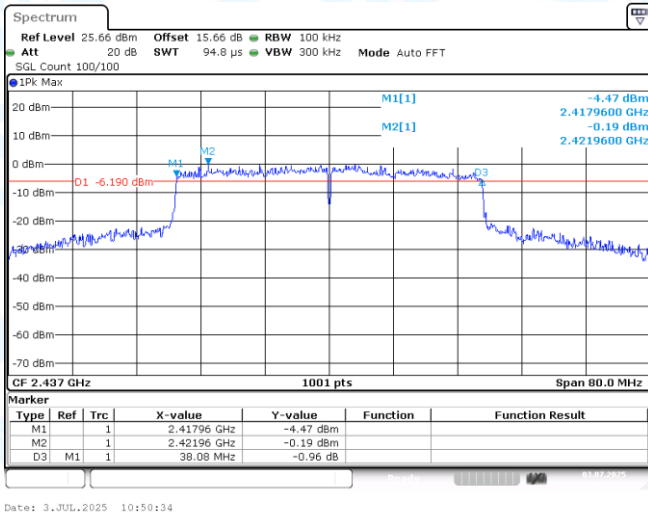
11AX20SISO-Ant1-2437-PASS



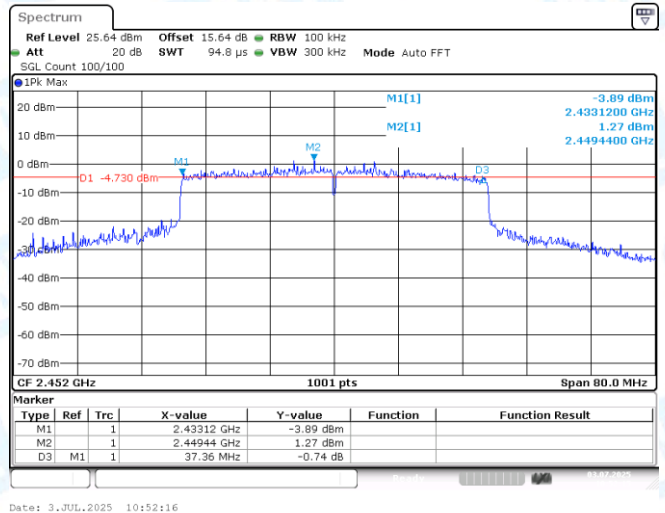
11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS



11AX40SISO-Ant1-2452-PASS

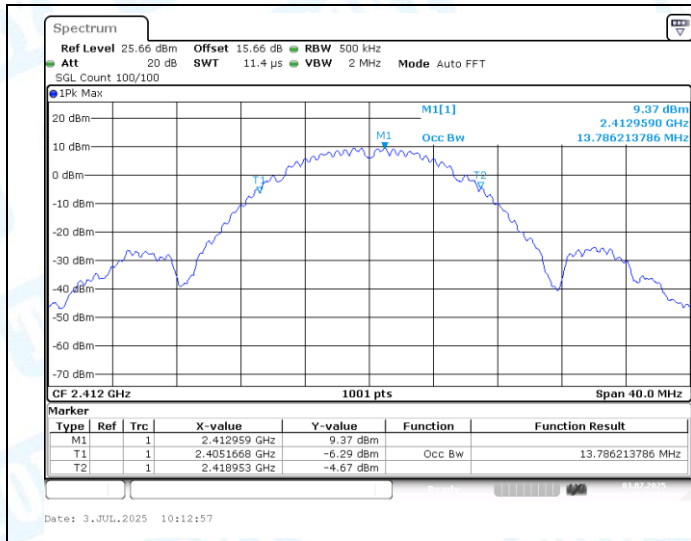
2: Occupied Channel Bandwidth

2.1 Test Result

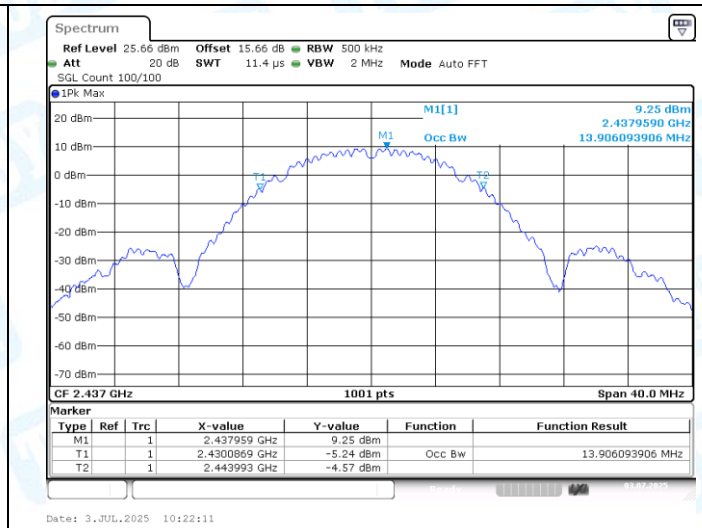
TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.786	2405.1668	2418.9530	---	---
11B	Ant1	2437	13.906	2430.0869	2443.9930	---	---
11B	Ant1	2462	13.786	2455.1269	2468.9131	---	---
11G	Ant1	2412	18.501	2402.4496	2420.9510	---	---
11G	Ant1	2437	18.941	2427.9291	2446.8701	---	---
11G	Ant1	2462	17.942	2453.1688	2471.1109	---	---
11N20SISO	Ant1	2412	18.741	2402.5295	2421.2707	---	---
11N20SISO	Ant1	2437	18.621	2427.7692	2446.3906	---	---
11N20SISO	Ant1	2462	18.701	2452.5694	2471.2707	---	---
11N40SISO	Ant1	2422	37.243	2403.1389	2440.3816	---	---
11N40SISO	Ant1	2437	37.163	2418.2188	2455.3816	---	---
11N40SISO	Ant1	2452	37.323	2433.2188	2470.5415	---	---
11AX20SISO	Ant1	2412	19.061	2402.4496	2421.5105	---	---
11AX20SISO	Ant1	2437	19.540	2427.2498	2446.7902	---	---
11AX20SISO	Ant1	2462	20.140	2451.8501	2471.9900	---	---
11AX40SISO	Ant1	2422	38.921	2402.7393	2441.6603	---	---
11AX40SISO	Ant1	2437	38.202	2417.8192	2456.0210	---	---
11AX40SISO	Ant1	2452	38.122	2432.8991	2471.0210	---	---

Note: RF Conducted test Offset= cable loss+Attenuator(10dB).

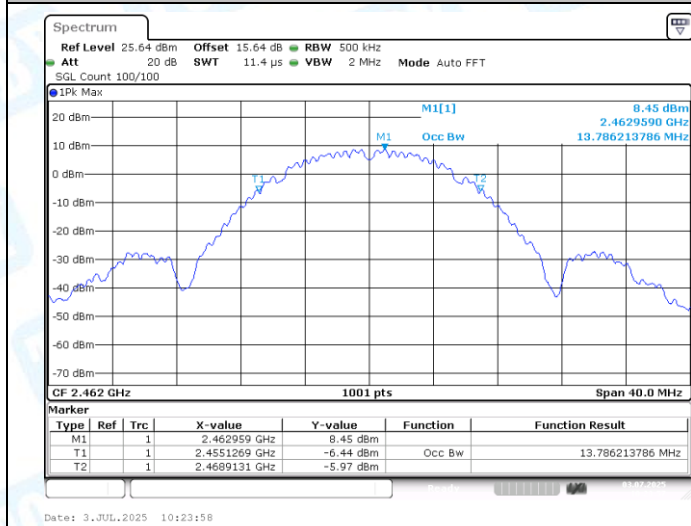
2.2 Test Graphs



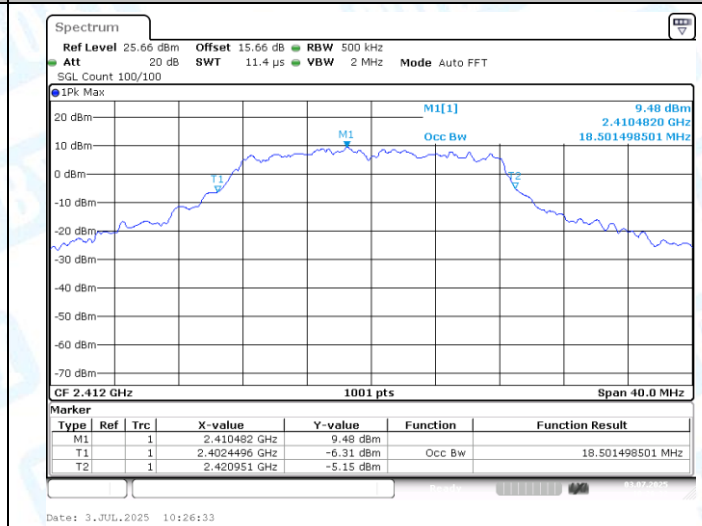
11B-Ant1-2412



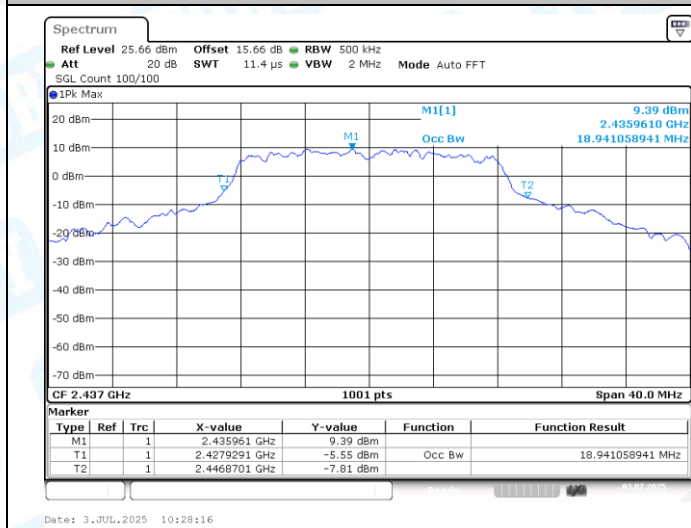
11B-Ant1-2437



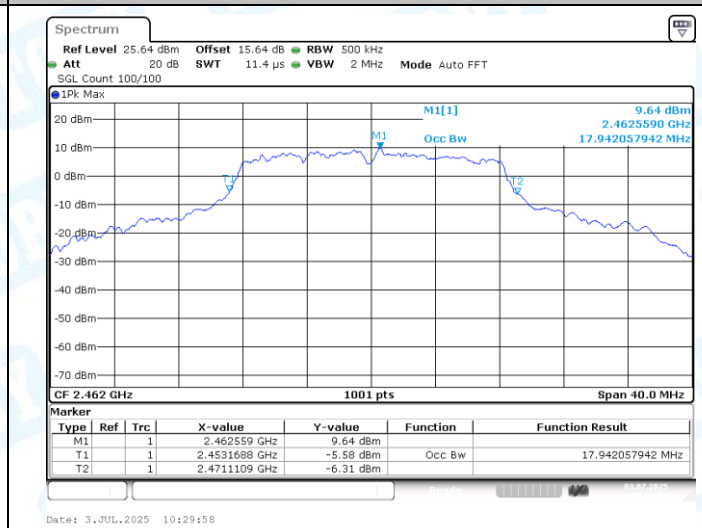
11B-Ant1-2462



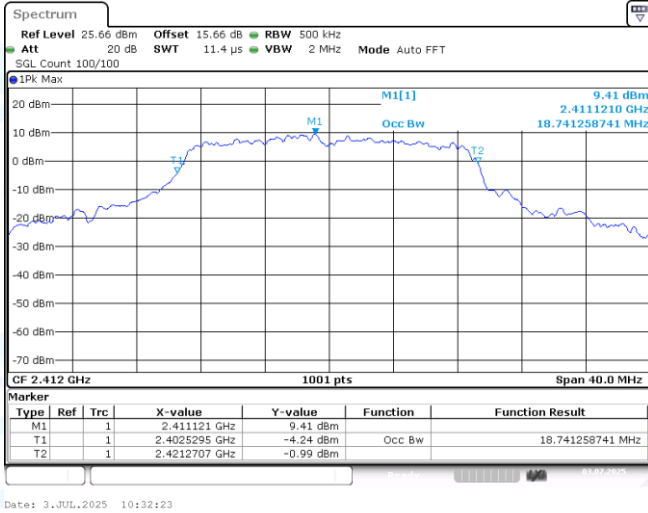
11G-Ant1-2412



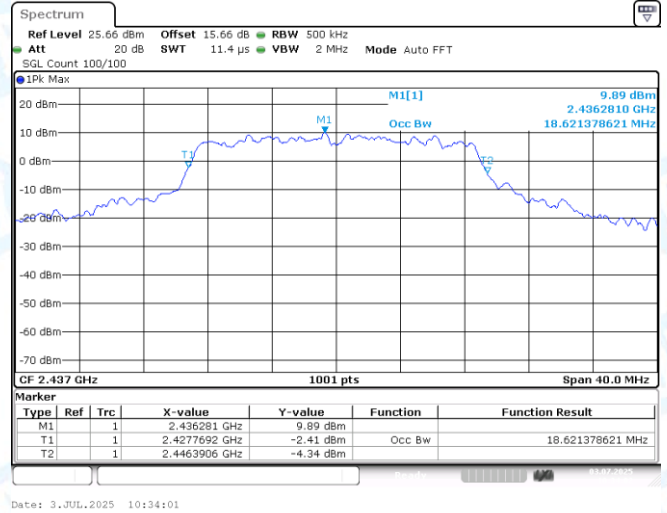
11G-Ant1-2437



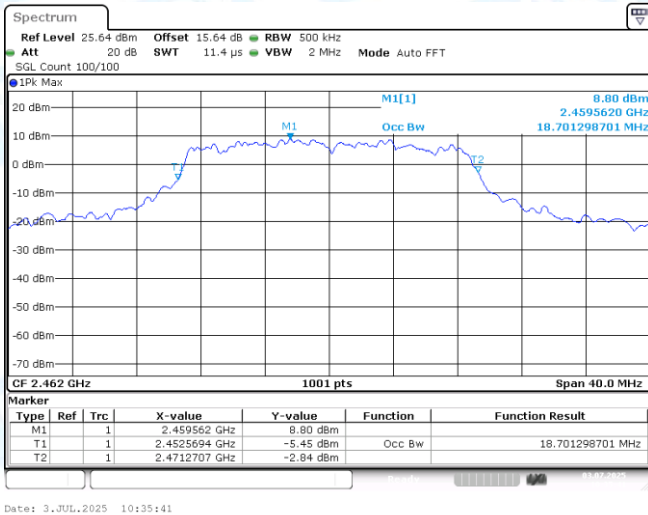
11G-Ant1-2462



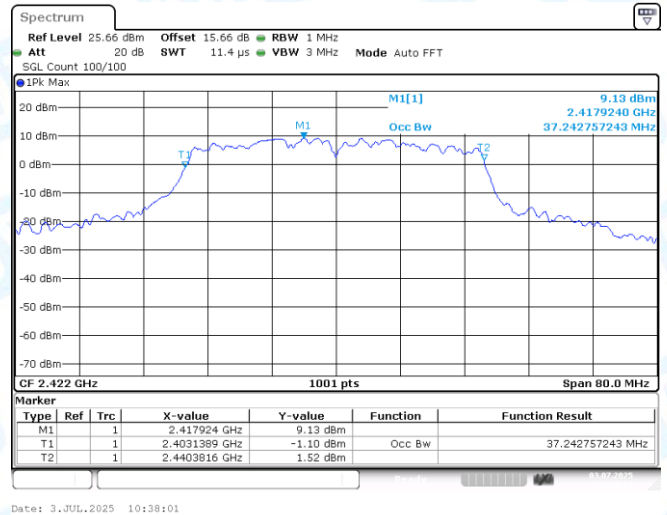
11N20SISO-Ant1-2412



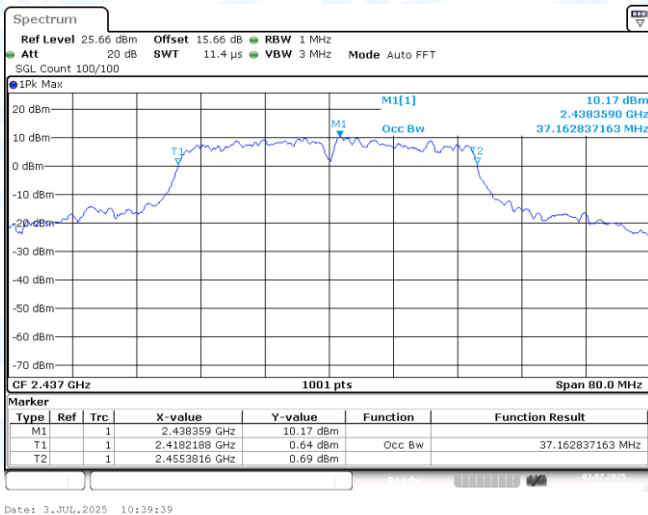
11N20SISO-Ant1-2437



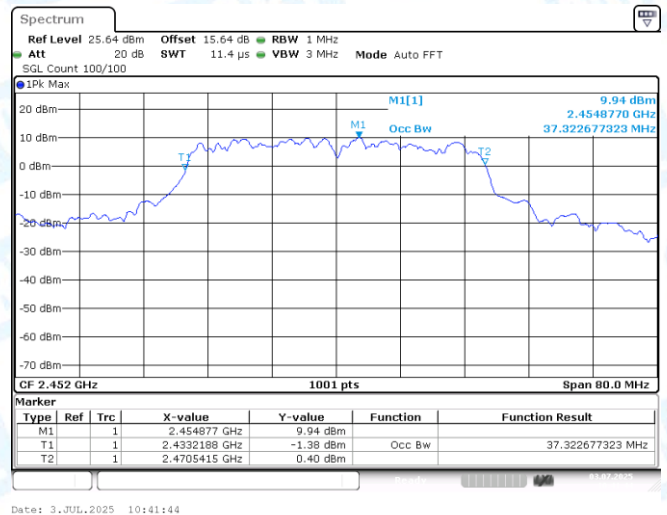
11N20SISO-Ant1-2462



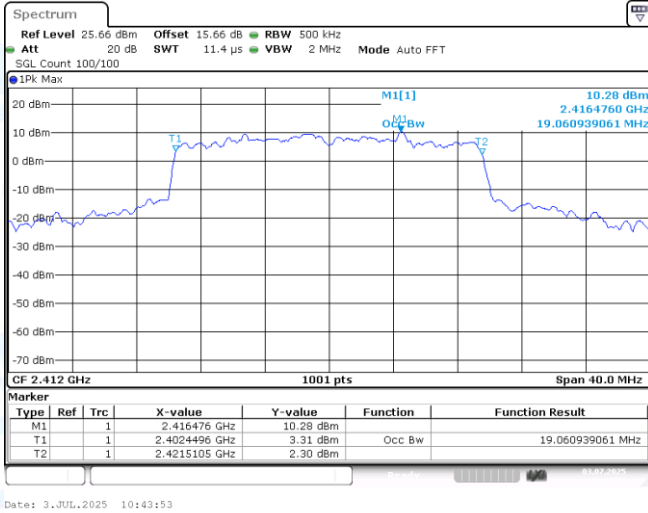
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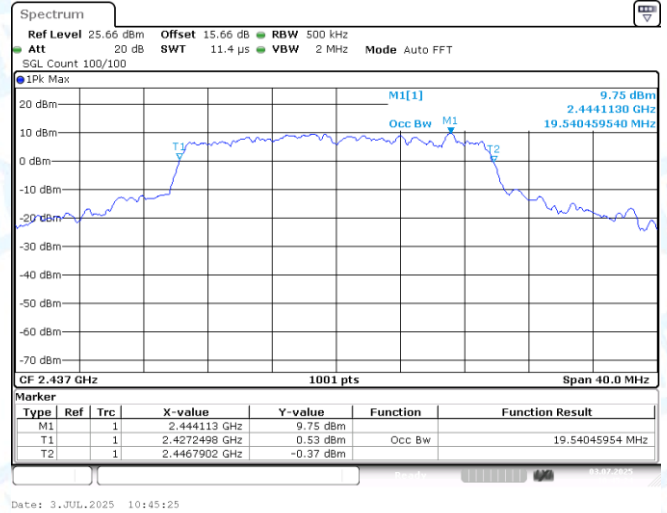
11N20SISO-Ant1-2462



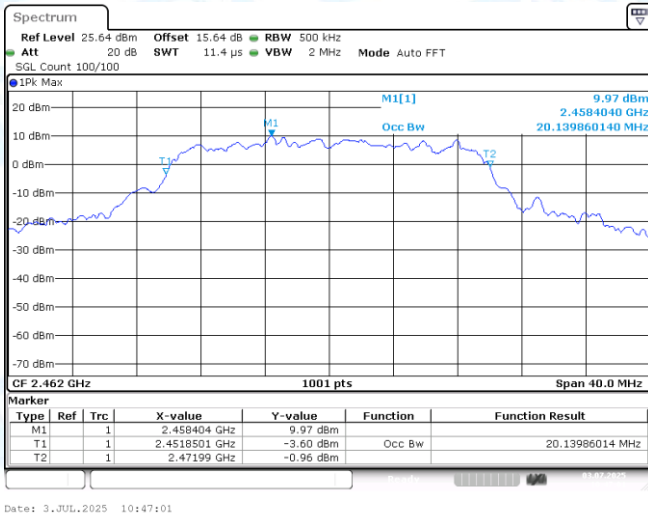
11N40SISO-Ant1-2422



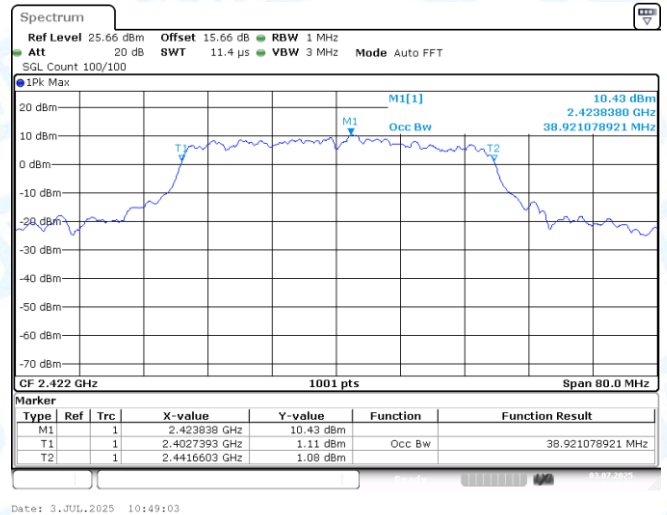
11AX20SISO-Ant1-2412



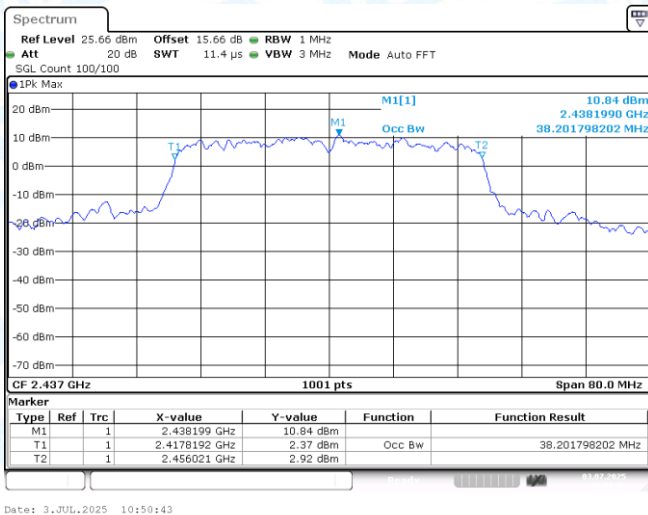
11AX20SISO-Ant1-2437



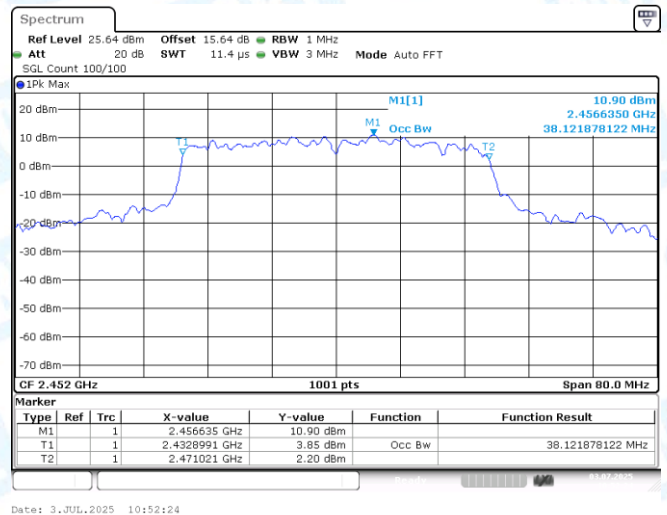
11AX20SISO-Ant1-2462



11AX40SISO-Ant1-2422



11AX40SISO-Ant1-2437



11AX40SISO-Ant1-2452

3: Maximum conducted output power

3.1 Test Result Peak

Test Mode	Ant.	Frequency [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	18.61	≤30.00	1.91	20.52	≤36.00	PASS
11B	Ant1	2437	18.81	≤30.00	1.91	20.72	≤36.00	PASS
11B	Ant1	2462	16.95	≤30.00	1.91	18.86	≤36.00	PASS
11G	Ant1	2412	23.25	≤30.00	1.91	25.16	≤36.00	PASS
11G	Ant1	2437	23.81	≤30.00	1.91	25.72	≤36.00	PASS
11G	Ant1	2462	23.12	≤30.00	1.91	25.03	≤36.00	PASS
11N20SISO	Ant1	2412	23.22	≤30.00	1.91	25.13	≤36.00	PASS
11N20SISO	Ant1	2437	23.79	≤30.00	1.91	25.70	≤36.00	PASS
11N20SISO	Ant1	2462	23.07	≤30.00	1.91	24.98	≤36.00	PASS
11N40SISO	Ant1	2422	23.05	≤30.00	1.91	24.96	≤36.00	PASS
11N40SISO	Ant1	2437	23.86	≤30.00	1.91	25.77	≤36.00	PASS
11N40SISO	Ant1	2452	23.45	≤30.00	1.91	25.36	≤36.00	PASS
11AX20SISO	Ant1	2412	23.77	≤30.00	1.91	25.68	≤36.00	PASS
11AX20SISO	Ant1	2437	24.30	≤30.00	1.91	26.21	≤36.00	PASS
11AX20SISO	Ant1	2462	23.61	≤30.00	1.91	25.52	≤36.00	PASS
11AX40SISO	Ant1	2422	23.66	≤30.00	1.91	25.57	≤36.00	PASS
11AX40SISO	Ant1	2437	24.40	≤30.00	1.91	26.31	≤36.00	PASS
11AX40SISO	Ant1	2452	23.95	≤30.00	1.91	25.86	≤36.00	PASS

Note: RF Conducted test Offset= cable loss+Attenuator(10dB).

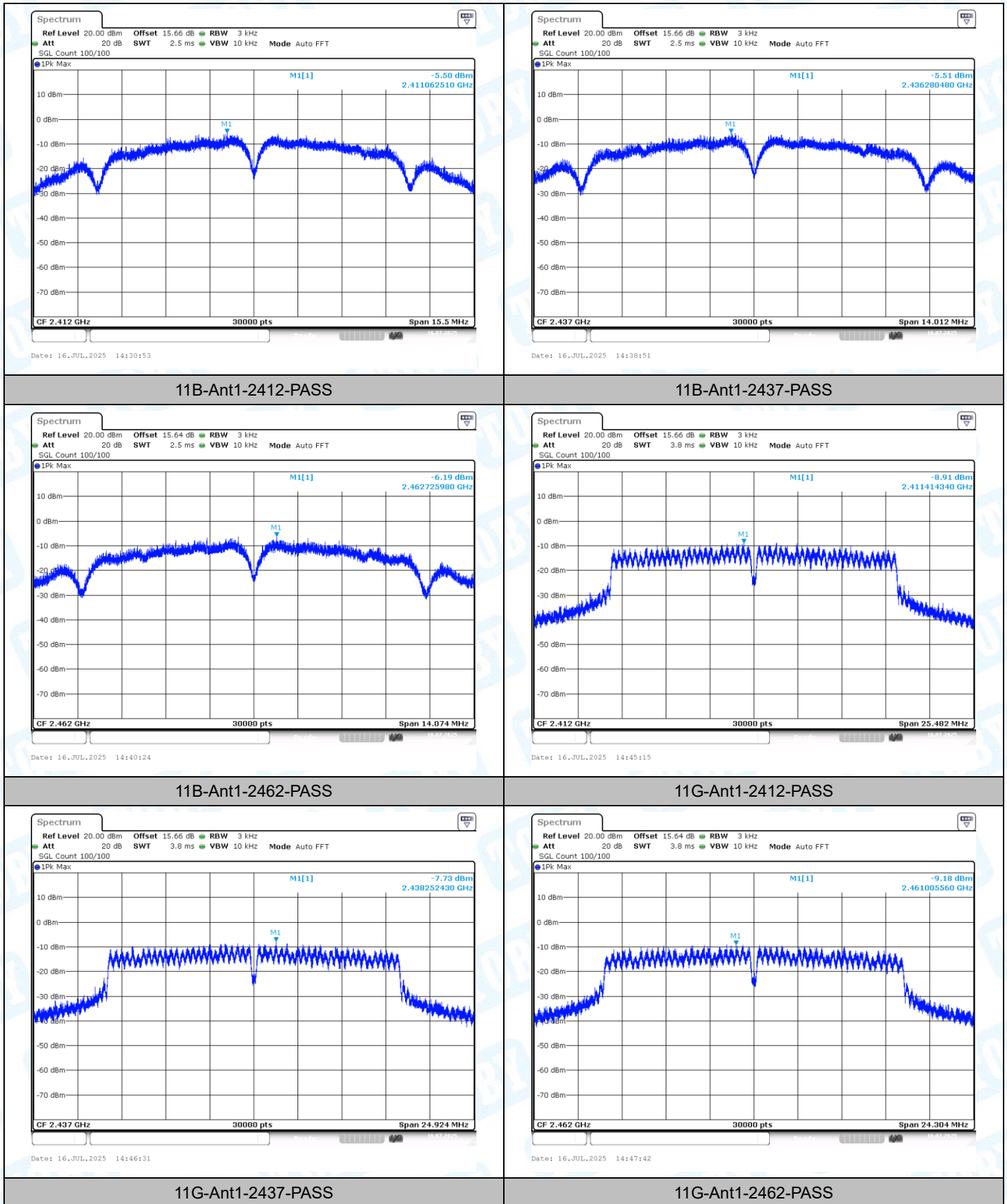
4: Maximum power spectral density

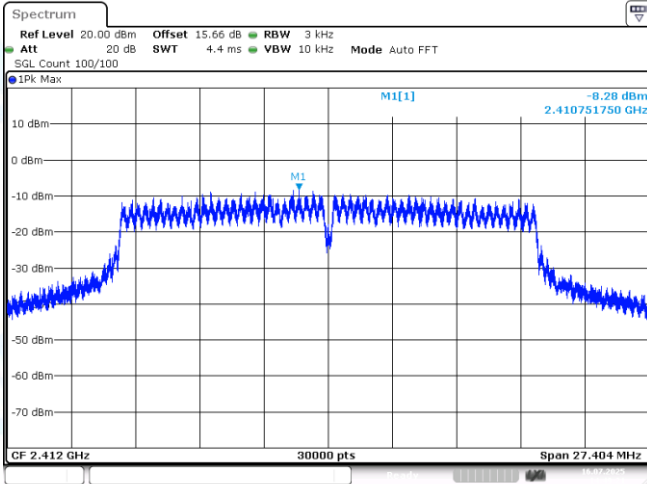
4.1 Test Result

TestMode	Ant.	Frequency [MHz]	RawData [dBm/3kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-5.5	-5.50	≤8.00	PASS
11B	Ant1	2437	-5.51	-5.51	≤8.00	PASS
11B	Ant1	2462	-6.19	-6.19	≤8.00	PASS
11G	Ant1	2412	-8.91	-8.91	≤8.00	PASS
11G	Ant1	2437	-7.73	-7.73	≤8.00	PASS
11G	Ant1	2462	-9.18	-9.18	≤8.00	PASS
11N20SISO	Ant1	2412	-8.28	-8.28	≤8.00	PASS
11N20SISO	Ant1	2437	-7.21	-7.21	≤8.00	PASS
11N20SISO	Ant1	2462	-8.8	-8.80	≤8.00	PASS
11N40SISO	Ant1	2422	-11.03	-11.03	≤8.00	PASS
11N40SISO	Ant1	2437	-10.53	-10.53	≤8.00	PASS
11N40SISO	Ant1	2452	-11.76	-11.76	≤8.00	PASS
11AX20SISO	Ant1	2412	-9.55	-9.55	≤8.00	PASS
11AX20SISO	Ant1	2437	-8.51	-8.51	≤8.00	PASS
11AX20SISO	Ant1	2462	-9.65	-9.65	≤8.00	PASS
11AX40SISO	Ant1	2422	-11.81	-11.81	≤8.00	PASS
11AX40SISO	Ant1	2437	-10.66	-10.66	≤8.00	PASS
11AX40SISO	Ant1	2452	-11.97	-11.97	≤8.00	PASS

Note: RF Conducted test Offset= cable loss+Attenuator(10dB).

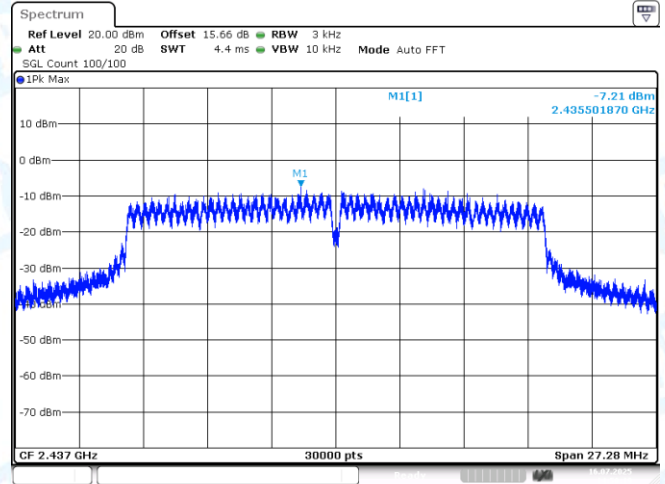
4.2 Test Graphs





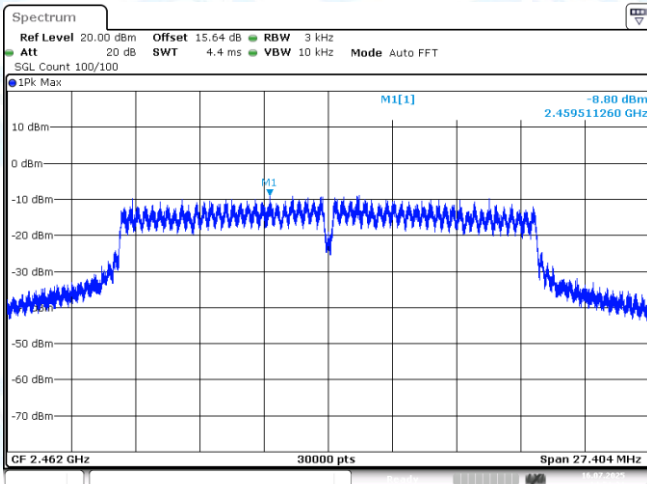
Date: 16.JUL.2025 14:49:21

11N20SISO-Ant1-2412-PASS



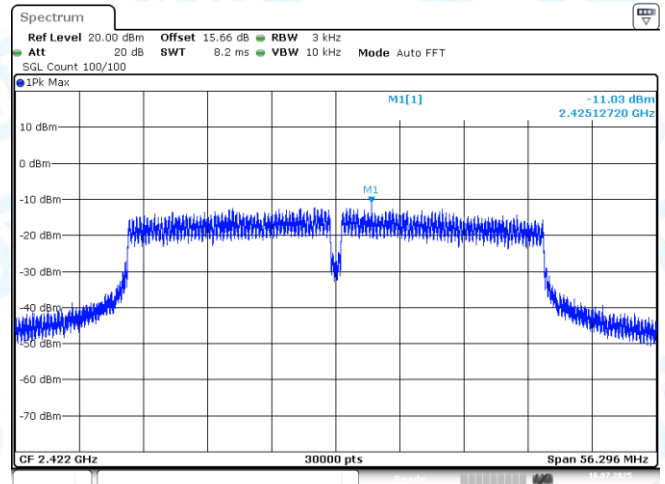
Date: 16.JUL.2025 14:50:19

11N20SISO-Ant1-2437-PASS



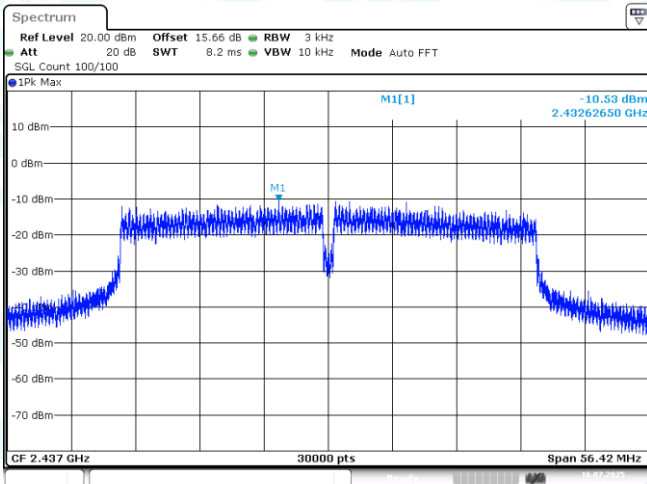
Date: 16.JUL.2025 14:51:22

11N20SISO-Ant1-2462-PASS



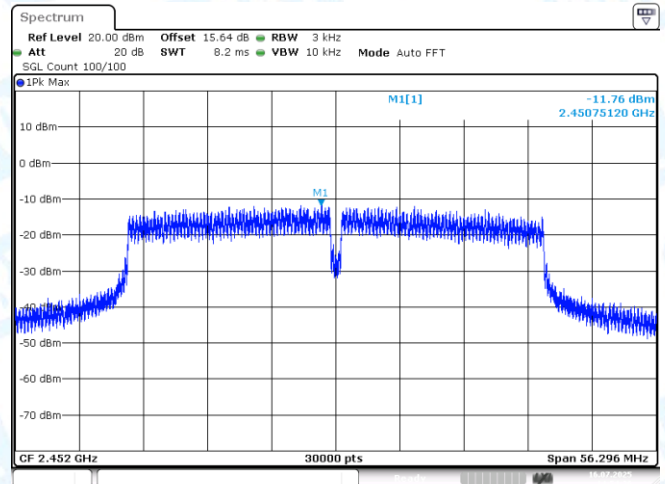
Date: 16.JUL.2025 14:52:22

11N40SISO-Ant1-2422-PASS



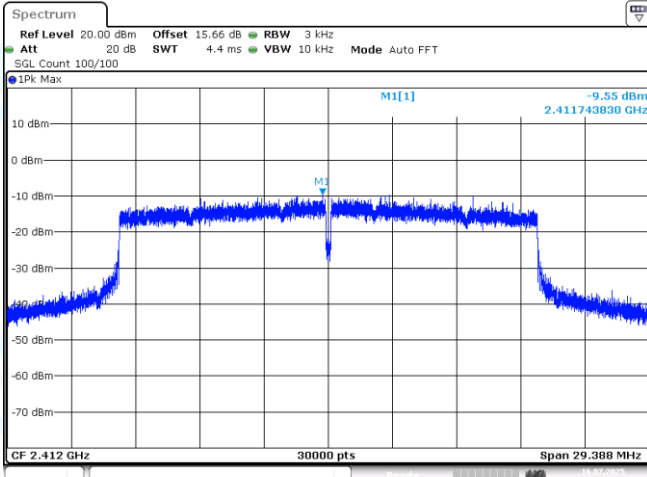
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11N40SISO-Ant1-2437-PASS



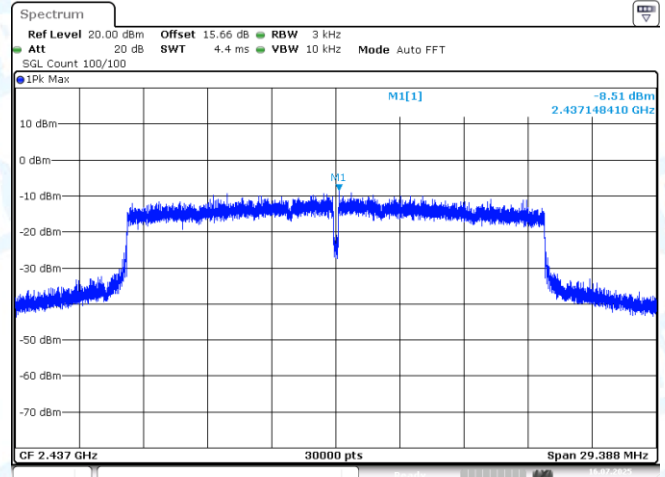
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11N40SISO-Ant1-2452-PASS



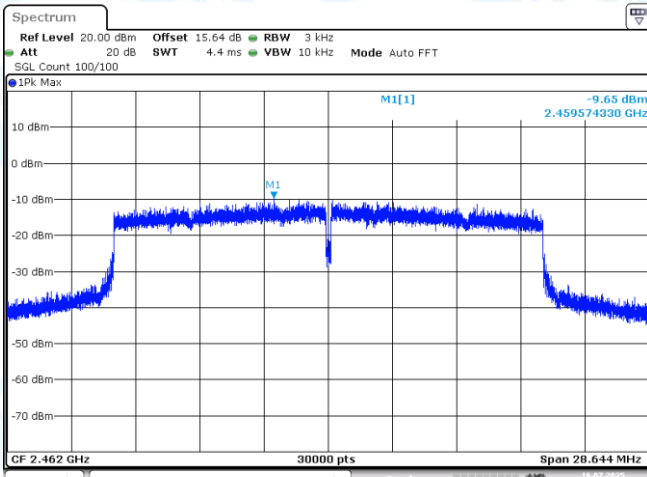
Date: 16.JUL.2025 14:55:42

11AX20SISO-Ant1-2412-PASS



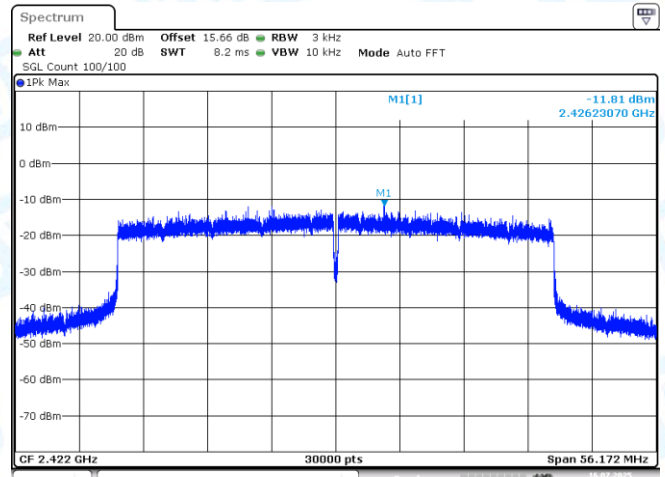
Date: 16.JUL.2025 14:56:50

11AX20SISO-Ant1-2437-PASS



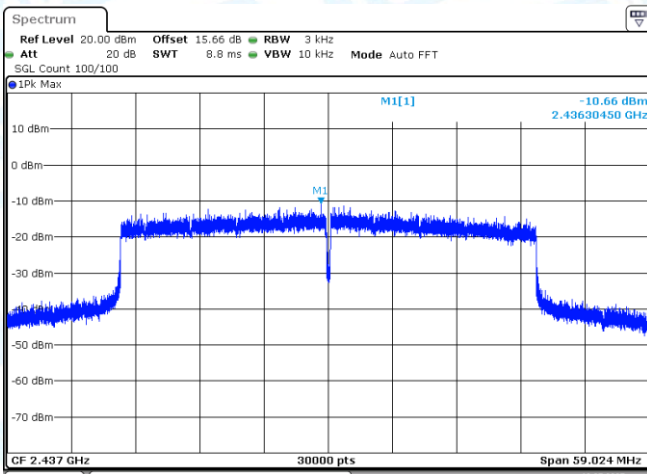
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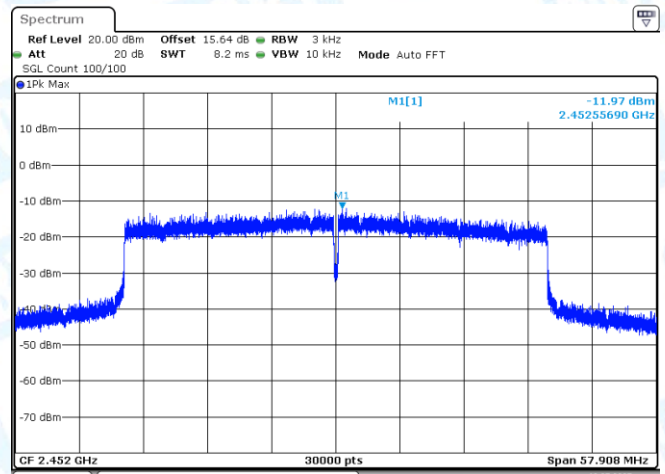
Date: 16.JUL.2025 15:05:02

11AX40SISO-Ant1-2422-PASS



Date: 16.JUL.2025 15:06:04

11AX40SISO-Ant1-2437-PASS



Date: 16.JUL.2025 15:07:04

11AX40SISO-Ant1-2452-PASS

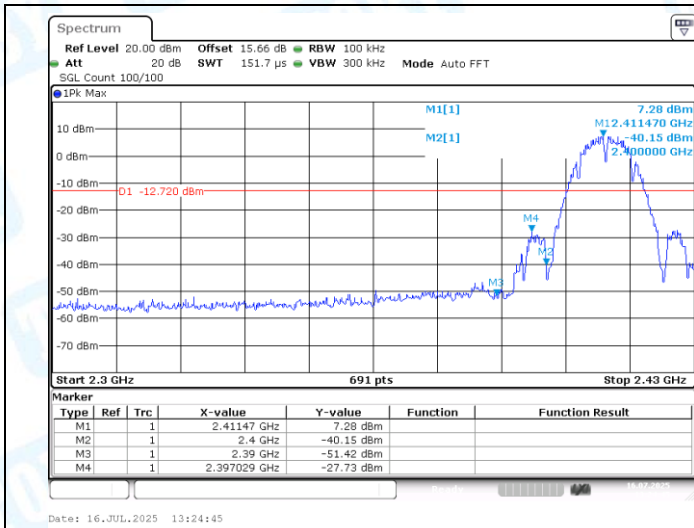
5: Band edge measurements

5.1 Test Result

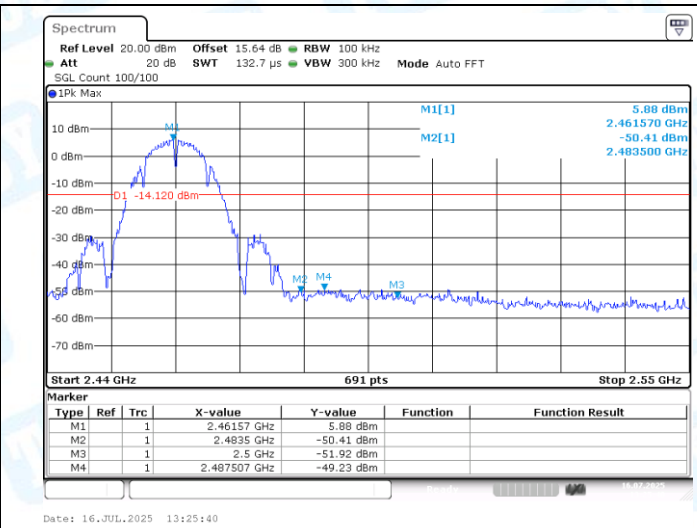
TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.28	-27.73	≤-12.72	PASS
11B	Ant1	High	2462	5.88	-49.23	≤-14.12	PASS
11G	Ant1	Low	2412	2.52	-20.99	≤-17.48	PASS
11G	Ant1	High	2462	5.51	-34.66	≤-14.49	PASS
11N20SISO	Ant1	Low	2412	2.48	-19.14	≤-17.52	PASS
11N20SISO	Ant1	High	2462	2.39	-31.31	≤-17.61	PASS
11N40SISO	Ant1	Low	2422	0.59	-23.88	≤-19.41	PASS
11N40SISO	Ant1	High	2452	-0.73	-25.62	≤-20.73	PASS
11AX20SISO	Ant1	Low	2412	4.81	-21.25	≤-15.19	PASS
11AX20SISO	Ant1	High	2462	2.05	-31.79	≤-17.95	PASS
11AX40SISO	Ant1	Low	2422	-1.12	-24.83	≤-21.12	PASS
11AX40SISO	Ant1	High	2452	-0.02	-27.68	≤-20.02	PASS

Note: RF Conducted test Offset= cable loss+Attenuator(10dB).

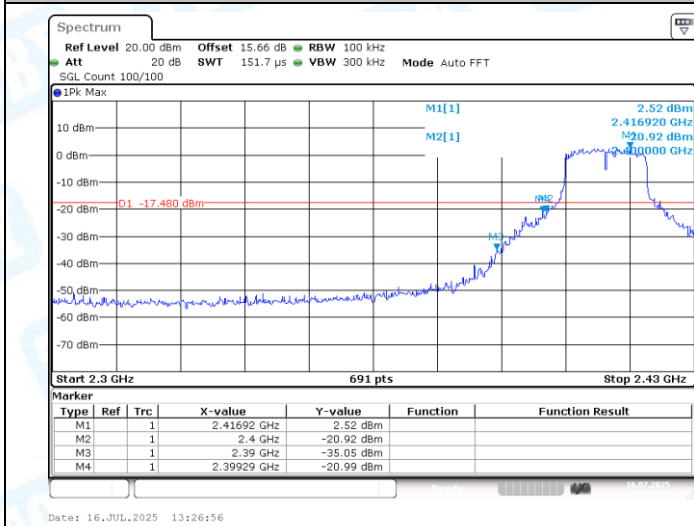
5.2 Test Graphs



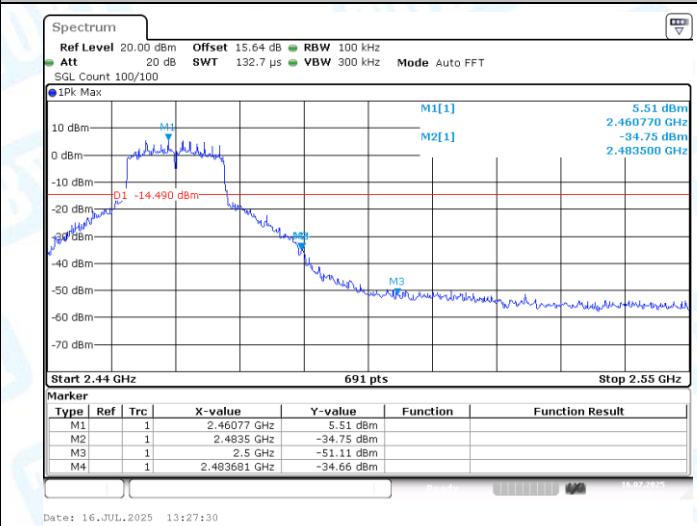
11B-Ant1-2412-PASS



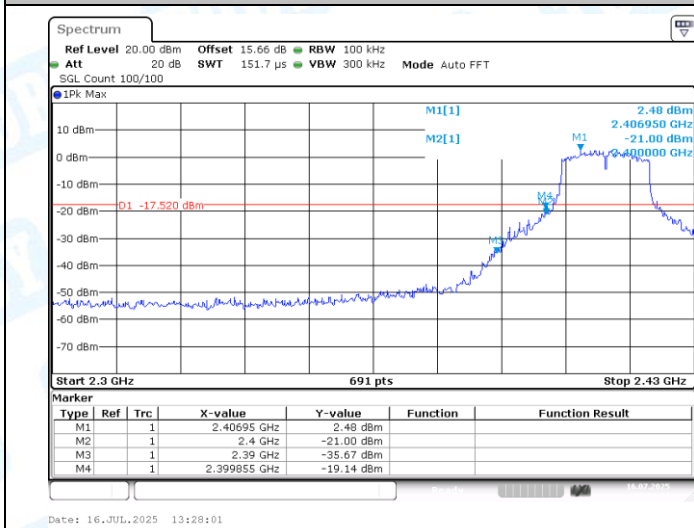
11B-Ant1-2462-PASS



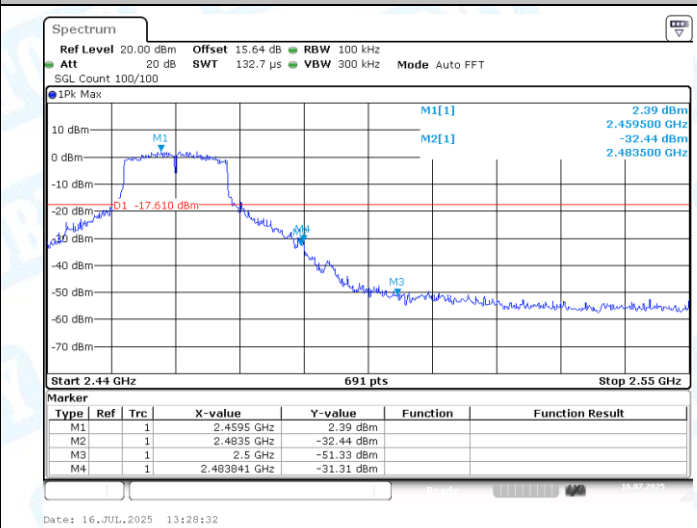
11G-Ant1-2412-PASS



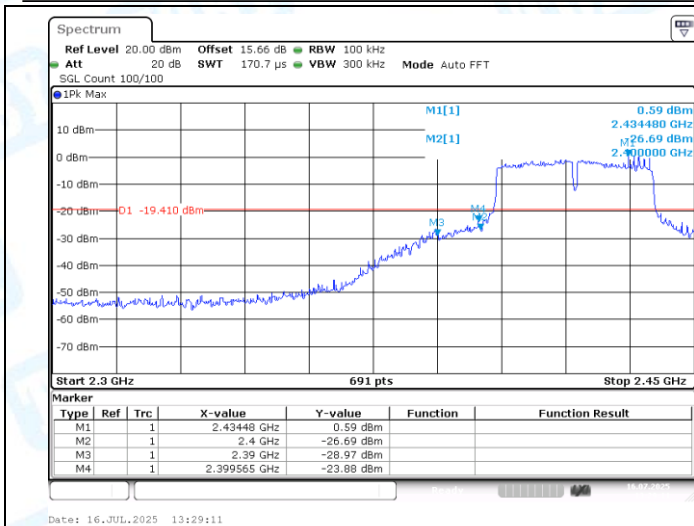
11G-Ant1-2462-PASS



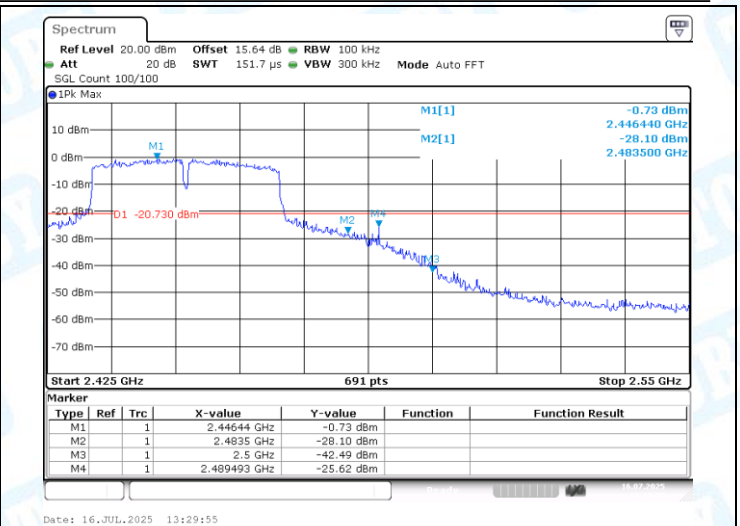
11N20SISO-Ant1-2412-PASS



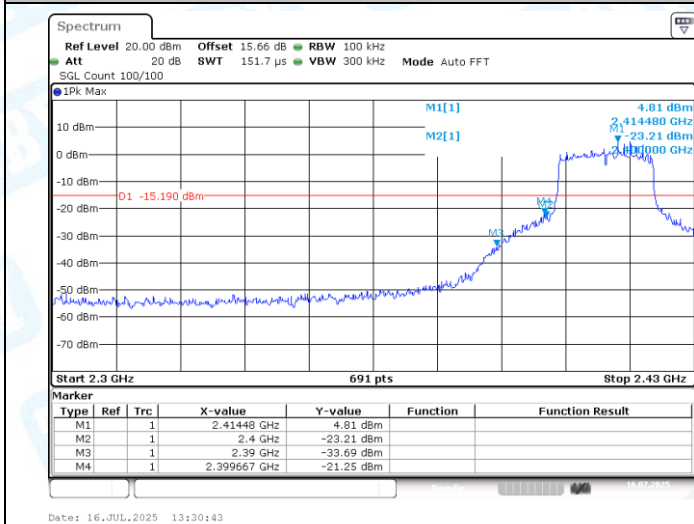
11N20SISO-Ant1-2462-PASS



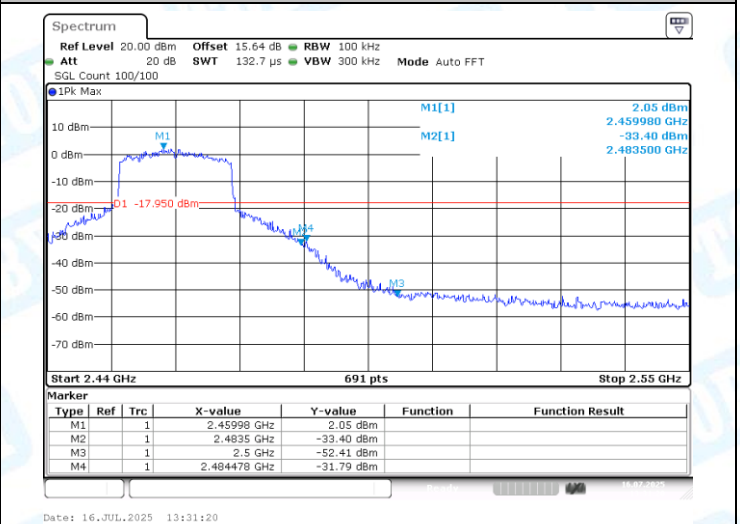
11N40SISO-Ant1-2422-PASS



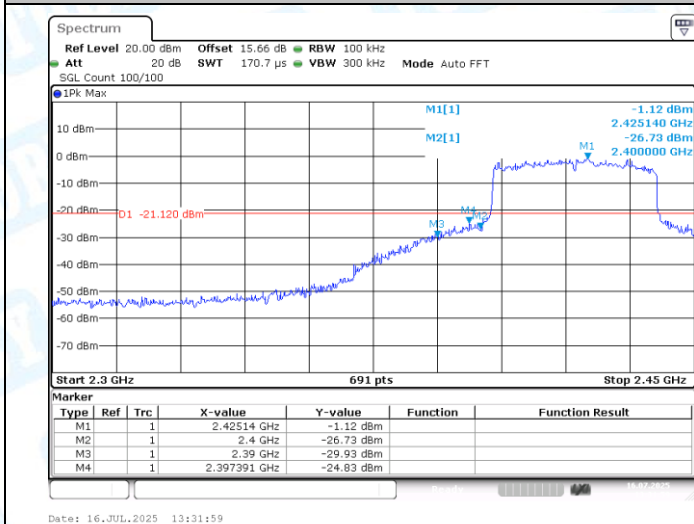
11N40SISO-Ant1-2452-PASS



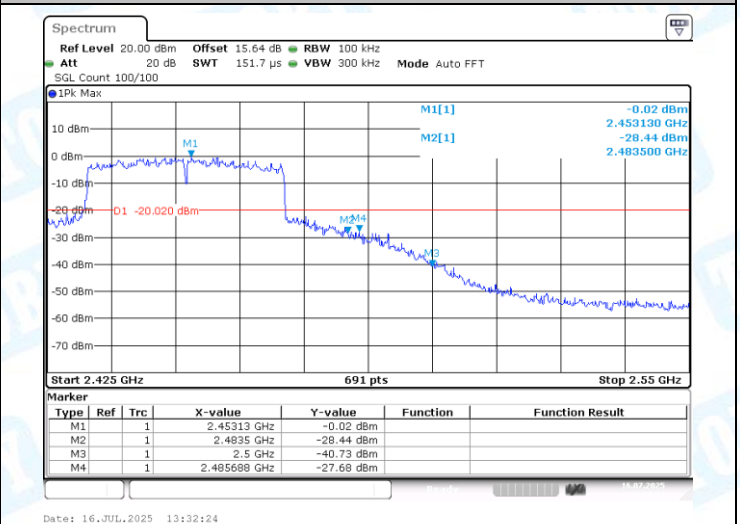
11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2452-PASS

6: Conducted Spurious Emission

6.1 Test Result

TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	5.44	5.44	---	PASS
11B	Ant1	2412	30~1000	5.44	-42.77	≤-14.56	PASS
11B	Ant1	2412	1000~26500	5.44	-27.69	≤-14.56	PASS
11B	Ant1	2437	0~Reference	5.24	5.24	---	PASS
11B	Ant1	2437	30~1000	5.24	-43.7	≤-14.76	PASS
11B	Ant1	2437	1000~26500	5.24	-26.76	≤-14.76	PASS
11B	Ant1	2462	0~Reference	3.90	3.90	---	PASS
11B	Ant1	2462	30~1000	3.90	-43.56	≤-16.1	PASS
11B	Ant1	2462	1000~26500	3.90	-27.55	≤-16.1	PASS
11G	Ant1	2412	0~Reference	4.31	4.31	---	PASS
11G	Ant1	2412	30~1000	4.31	-43.74	≤-15.69	PASS
11G	Ant1	2412	1000~26500	4.31	-27.48	≤-15.69	PASS
11G	Ant1	2437	0~Reference	2.51	2.51	---	PASS
11G	Ant1	2437	30~1000	2.51	-42.86	≤-17.49	PASS
11G	Ant1	2437	1000~26500	2.51	-27.17	≤-17.49	PASS
11G	Ant1	2462	0~Reference	1.76	1.76	---	PASS
11G	Ant1	2462	30~1000	1.76	-43.89	≤-18.24	PASS
11G	Ant1	2462	1000~26500	1.76	-27.46	≤-18.24	PASS
11N20SISO	Ant1	2412	0~Reference	1.38	1.38	---	PASS
11N20SISO	Ant1	2412	30~1000	1.38	-44.16	≤-18.62	PASS
11N20SISO	Ant1	2412	1000~26500	1.38	-27.24	≤-18.62	PASS
11N20SISO	Ant1	2437	0~Reference	1.91	1.91	---	PASS
11N20SISO	Ant1	2437	30~1000	1.91	-44.29	≤-18.09	PASS
11N20SISO	Ant1	2437	1000~26500	1.91	-28.1	≤-18.09	PASS
11N20SISO	Ant1	2462	0~Reference	1.50	1.50	---	PASS
11N20SISO	Ant1	2462	30~1000	1.50	-43.57	≤-18.5	PASS
11N20SISO	Ant1	2462	1000~26500	1.50	-26.57	≤-18.5	PASS
11N40SISO	Ant1	2422	0~Reference	-2.23	-2.23	---	PASS
11N40SISO	Ant1	2422	30~1000	-2.23	-43.94	≤-22.23	PASS
11N40SISO	Ant1	2422	1000~26500	-2.23	-27.26	≤-22.23	PASS
11N40SISO	Ant1	2437	0~Reference	-0.60	-0.60	---	PASS
11N40SISO	Ant1	2437	30~1000	-0.60	-41.37	≤-20.6	PASS
11N40SISO	Ant1	2437	1000~26500	-0.60	-27	≤-20.6	PASS
11N40SISO	Ant1	2452	0~Reference	-1.12	-1.12	---	PASS
11N40SISO	Ant1	2452	30~1000	-1.12	-43.5	≤-21.12	PASS
11N40SISO	Ant1	2452	1000~26500	-1.12	-27.52	≤-21.12	PASS
11AX20SISO	Ant1	2412	0~Reference	0.22	0.22	---	PASS
11AX20SISO	Ant1	2412	30~1000	0.22	-42.67	≤-19.78	PASS
11AX20SISO	Ant1	2412	1000~26500	0.22	-26.91	≤-19.78	PASS
11AX20SISO	Ant1	2437	0~Reference	1.02	1.02	---	PASS

11AX20SISO	Ant1	2437	30~1000	1.02	-42.84	≤-18.98	PASS
11AX20SISO	Ant1	2437	1000~26500	1.02	-26.92	≤-18.98	PASS
11AX20SISO	Ant1	2462	0~Reference	1.15	1.15	---	PASS
11AX20SISO	Ant1	2462	30~1000	1.15	-43.86	≤-18.85	PASS
11AX20SISO	Ant1	2462	1000~26500	1.15	-27.19	≤-18.85	PASS
11AX40SISO	Ant1	2422	0~Reference	-1.47	-1.47	---	PASS
11AX40SISO	Ant1	2422	30~1000	-1.47	-43.71	≤-21.47	PASS
11AX40SISO	Ant1	2422	1000~26500	-1.47	-27.3	≤-21.47	PASS
11AX40SISO	Ant1	2437	0~Reference	-0.72	-0.72	---	PASS
11AX40SISO	Ant1	2437	30~1000	-0.72	-42.69	≤-20.72	PASS
11AX40SISO	Ant1	2437	1000~26500	-0.72	-27.5	≤-20.72	PASS
11AX40SISO	Ant1	2452	0~Reference	-0.92	-0.92	---	PASS
11AX40SISO	Ant1	2452	30~1000	-0.92	-43.14	≤-20.92	PASS
11AX40SISO	Ant1	2452	1000~26500	-0.92	-27.42	≤-20.92	PASS

Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss and attenuator factor have been set in the 'TDF' of the Spectrum Analyzer during the test.

For conducted spurious emission test, 'TDF' is the maximum value in the range of test.