

Appendix

Main Test Instruments

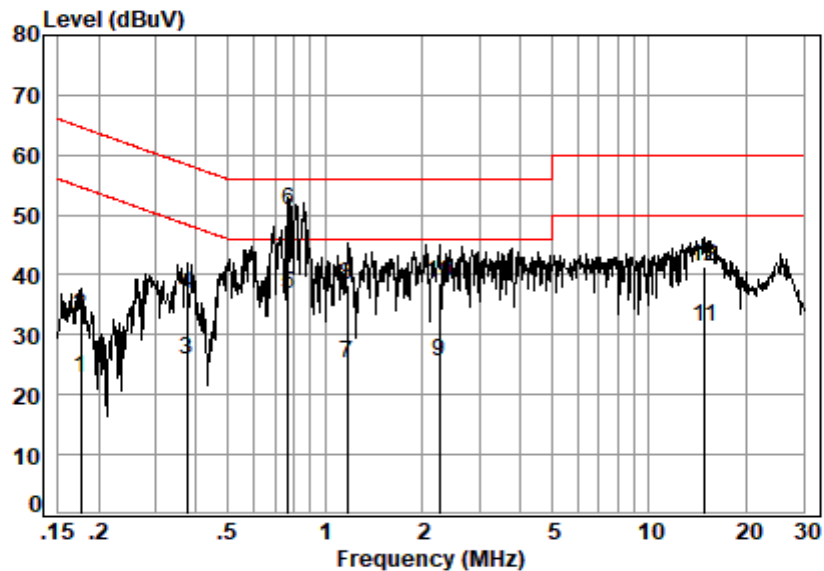
Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/3/2	2020/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1
RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2018/9/15	2019/9/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/13	2019/7/12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2

Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Conduct emission test	±3.12 dB (9KHz- 30MHz)
5	Temperature test	±1°C
6	Humidity test	±3%
7	DC and low frequency voltages	±0.5%

Conducted Emissions

Live Line:



Site : Shielding Room

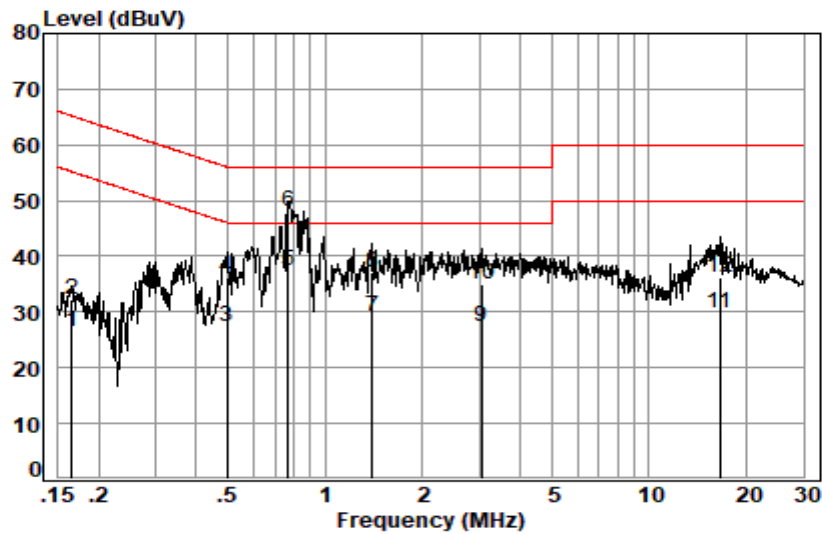
Condition: Line

Job No. : 16053CR

Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1768	0.02	9.66	13.27	22.95	54.64	-31.69	Average
2	0.1768	0.02	9.66	23.35	33.03	64.64	-31.61	QP
3	0.3751	0.05	9.67	16.23	25.95	48.39	-22.44	Average
4	0.3751	0.05	9.67	26.97	36.69	58.39	-21.70	QP
5	0.7711	0.08	9.72	27.14	36.94	46.00	-9.06	Average
6	0.7711	0.08	9.72	41.06	50.86	56.00	-5.14	QP
7	1.1719	0.11	9.73	15.39	25.23	46.00	-20.77	Average
8	1.1719	0.11	9.73	28.50	38.34	56.00	-17.66	QP
9	2.2606	0.16	9.71	15.59	25.46	46.00	-20.54	Average
10	2.2606	0.16	9.71	28.75	38.62	56.00	-17.38	QP
11	14.9068	0.21	10.34	20.81	31.36	50.00	-18.64	Average
12	14.9068	0.21	10.34	30.70	41.25	60.00	-18.75	QP

Neutral Line:



Site : Shielding Room
 Condition: Neutral
 Job No. : 16053CR
 Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1650	0.01	9.64	16.78	26.43	55.21	-28.78	Average
2	0.1650	0.01	9.64	22.53	32.18	65.21	-33.03	QP
3	0.4994	0.06	9.64	17.82	27.52	46.01	-18.49	Average
4	0.4994	0.06	9.64	26.56	36.26	56.01	-19.75	QP
5	0.7711	0.08	9.69	27.64	37.41	46.00	-8.59	Average
6	0.7711	0.08	9.69	38.24	48.01	56.00	-7.99	QP
7	1.3958	0.12	9.70	19.38	29.20	46.00	-16.80	Average
8	1.3958	0.12	9.70	27.17	36.99	56.00	-19.01	QP
9	3.0414	0.16	9.68	17.69	27.53	46.00	-18.47	Average
10	3.0414	0.16	9.68	25.12	34.96	56.00	-21.04	QP
11	16.4856	0.22	10.29	19.32	29.83	50.00	-20.17	Average
12	16.4856	0.22	10.29	25.81	36.32	60.00	-23.68	QP

Remarks:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

Duty Cycle

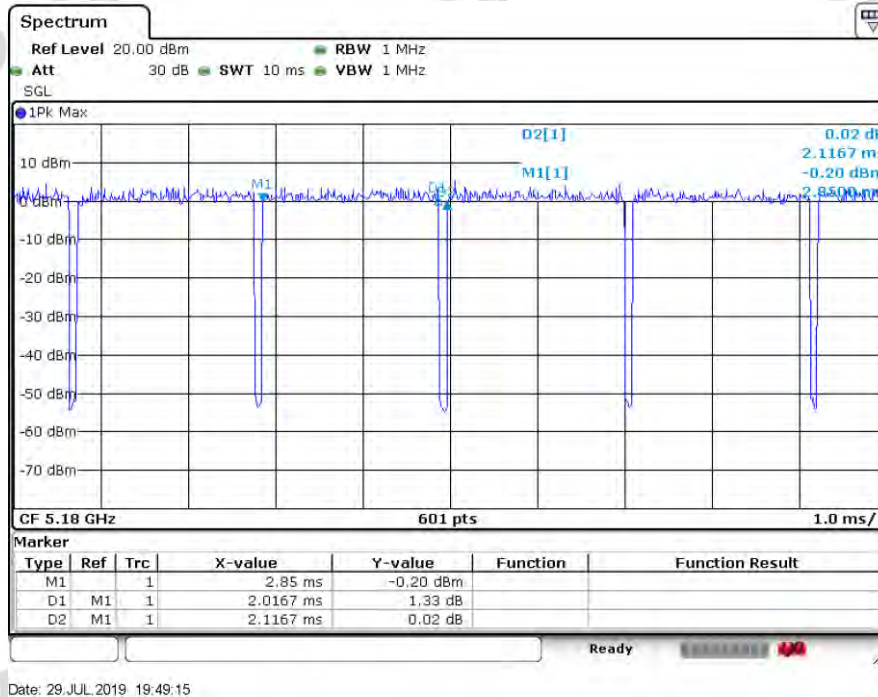
Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]	
		ANT1	ANT2
11A	CH149, CH157, CH165	95.28%	94.84%
11N20	CH149, CH157, CH165	94.44%	94.95%
11N40	CH151, CH159	89.18%	87.38%
11N20 MIMO	CH149, CH157, CH165	94.95%	94.96%
11N40 MIMO	CH151, CH159	87.82%	88.30%
11AC20	CH149, CH157, CH165	94.47%	94.97%
11AC40	CH151, CH159	87.86%	87.86%
11AC80	CH155	78.66%	78.54%
11AC20 MIMO	CH149, CH157, CH165	95.24%	94.74%
11AC40 MIMO	CH151, CH159	88.66%	87.89%
11AC80 MIMO	CH155	77.86%	78.56%

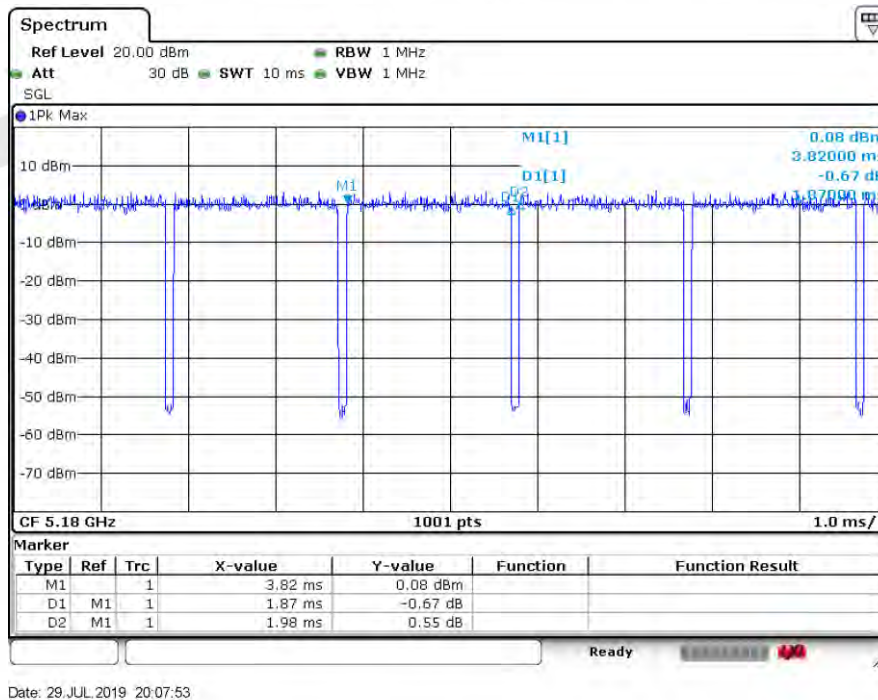
Test Plots

ANT1

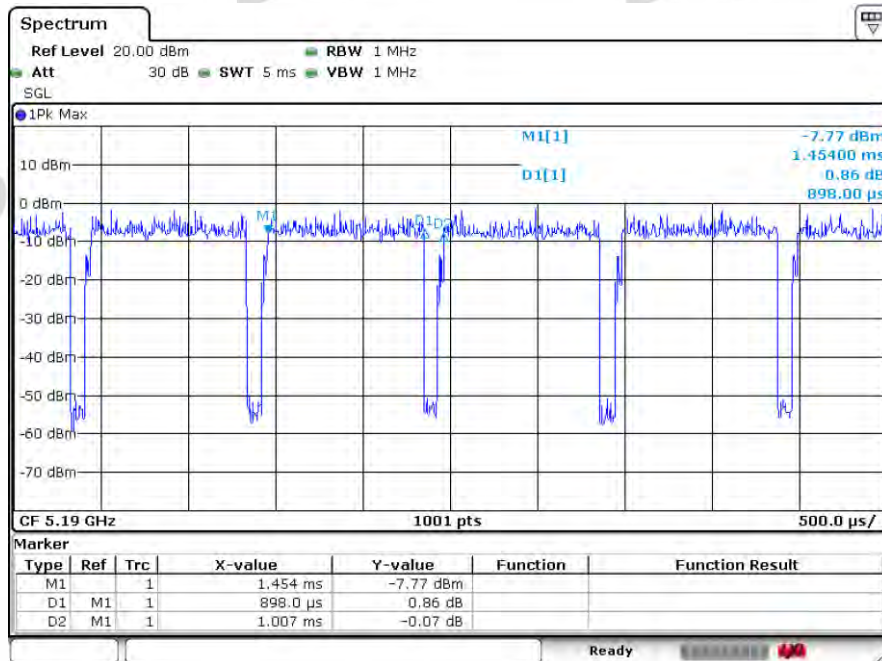
11A



11N20

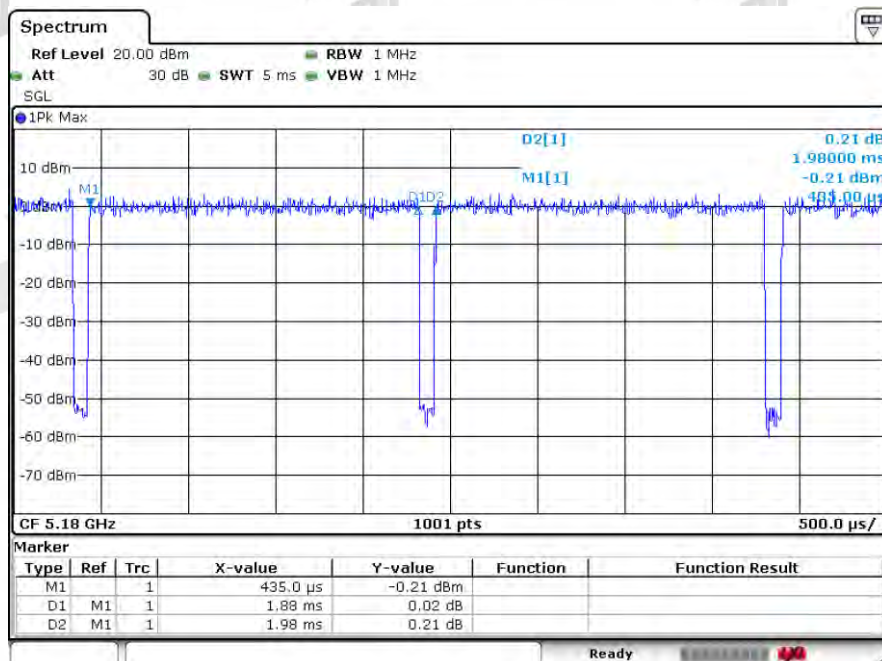


11N40



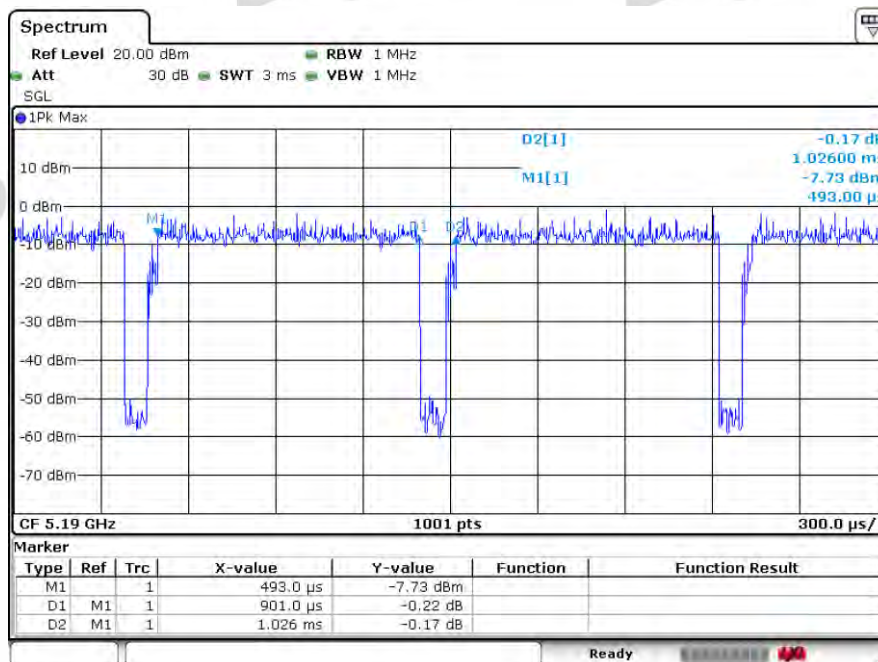
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11N20 MIMO



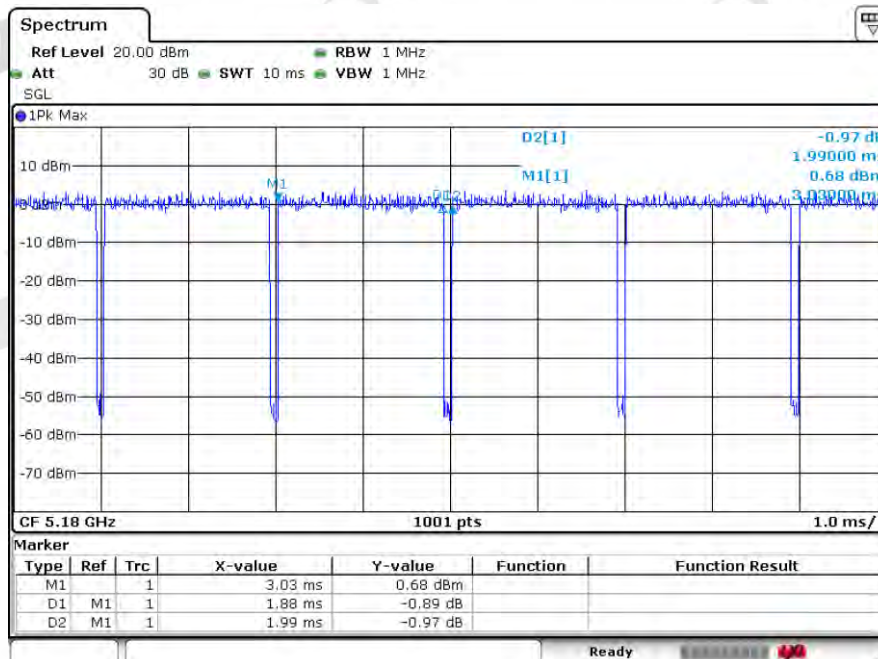
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11N40 MIMO



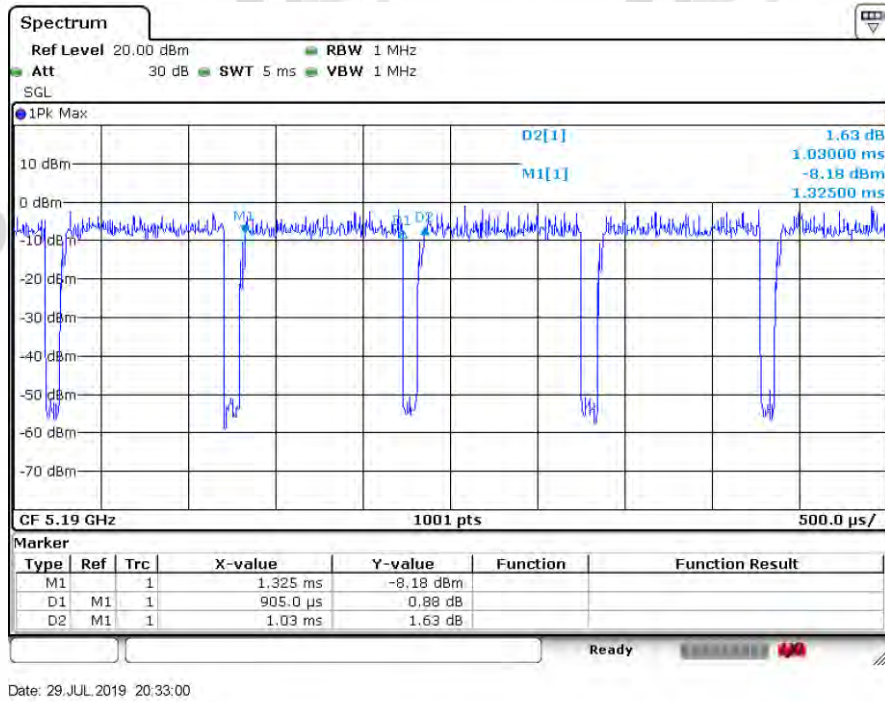
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11AC20

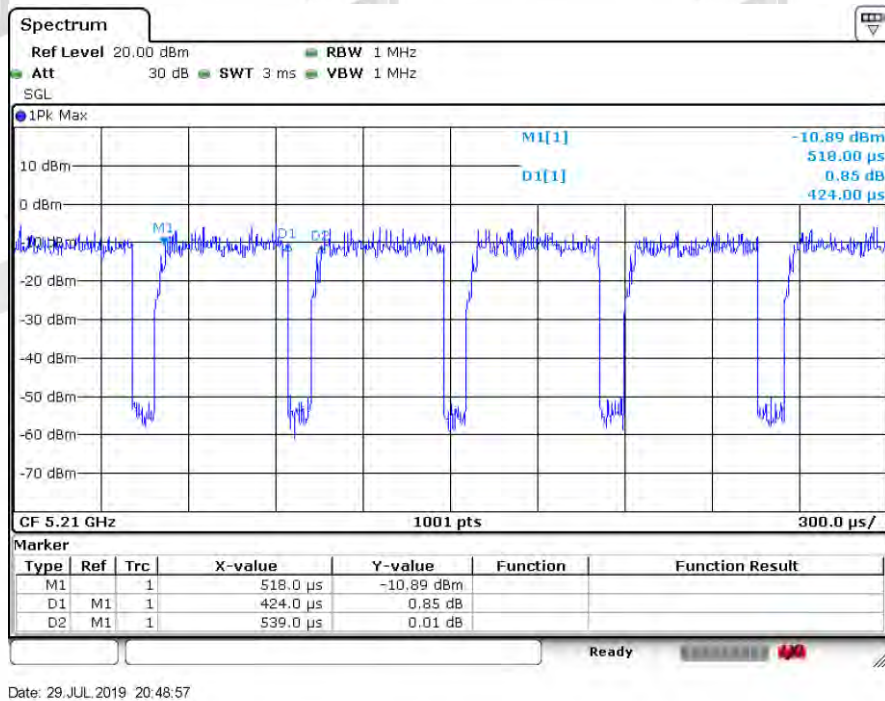


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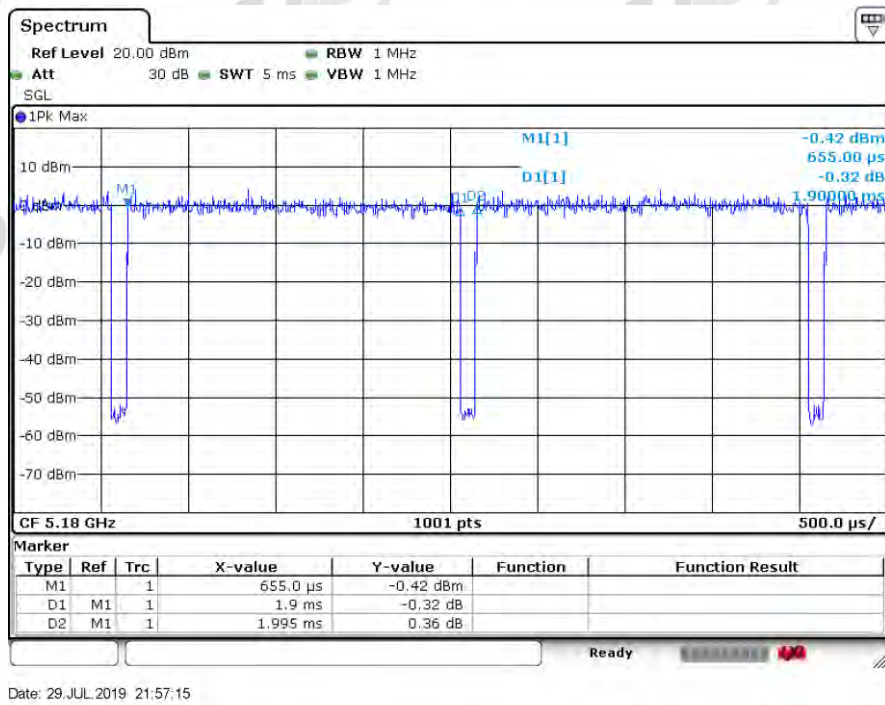
11AC40



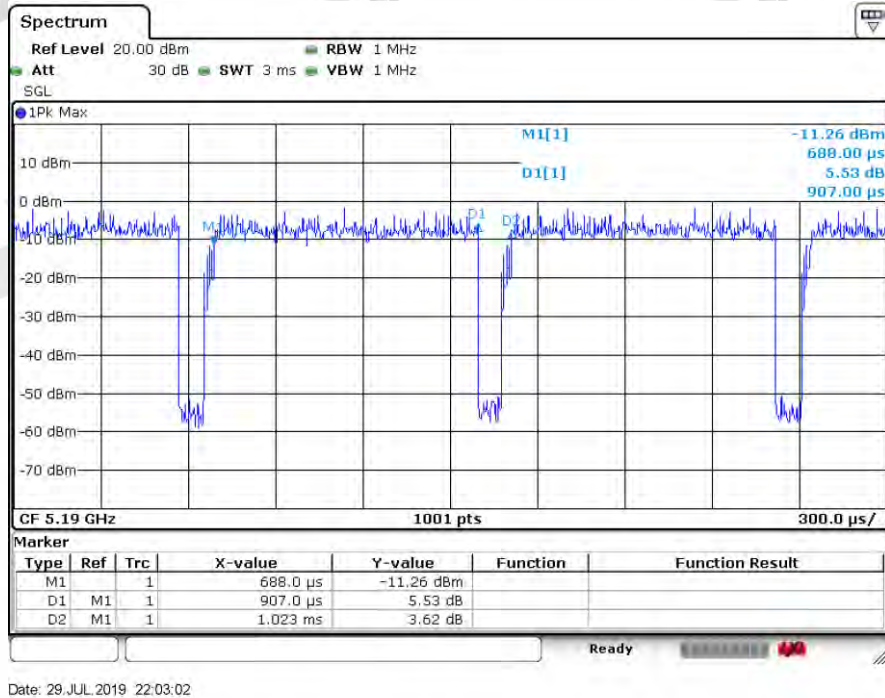
11AC80



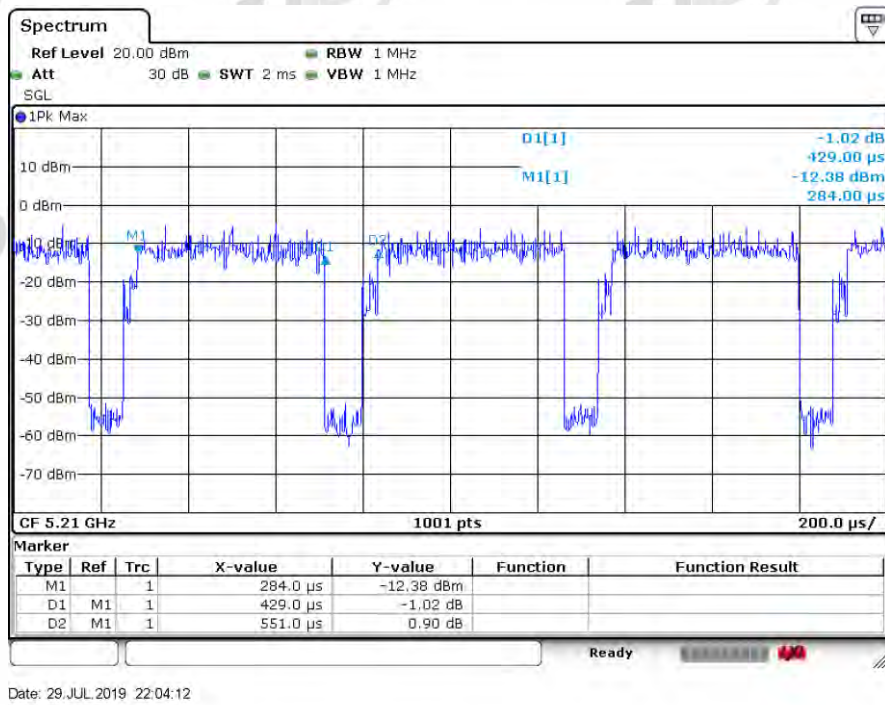
11AC20 MIMO

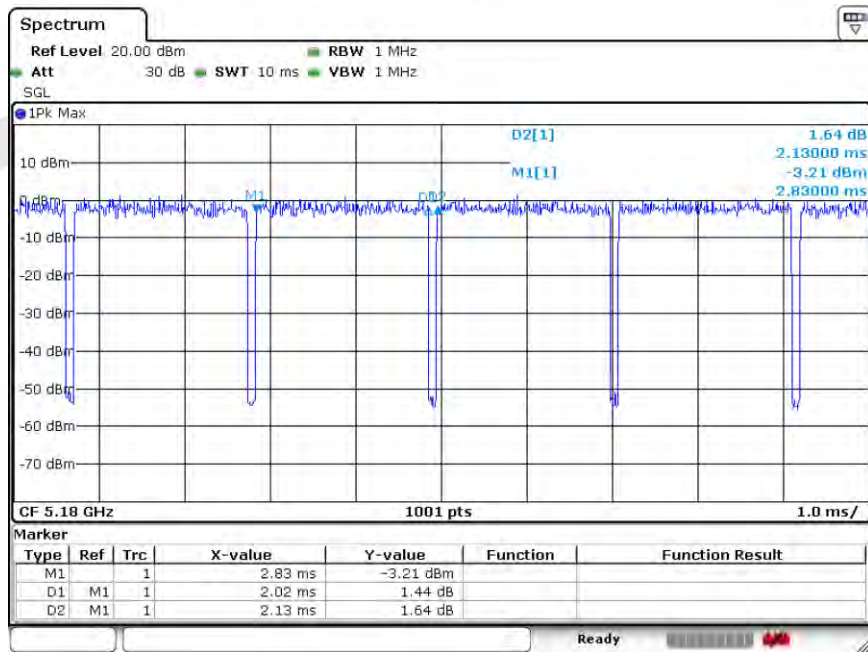


11AC40 MIMO



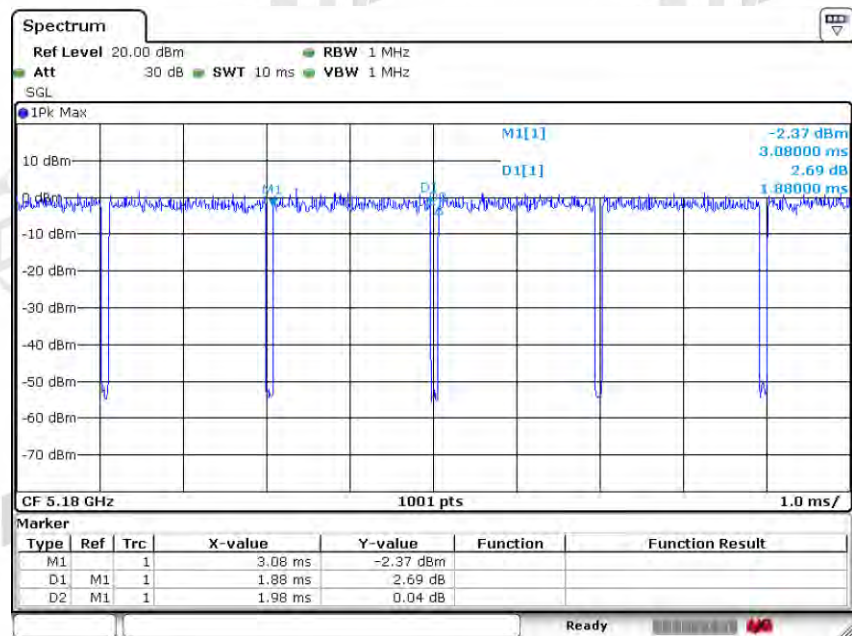
11AC80 MIMO



ANT2
11A

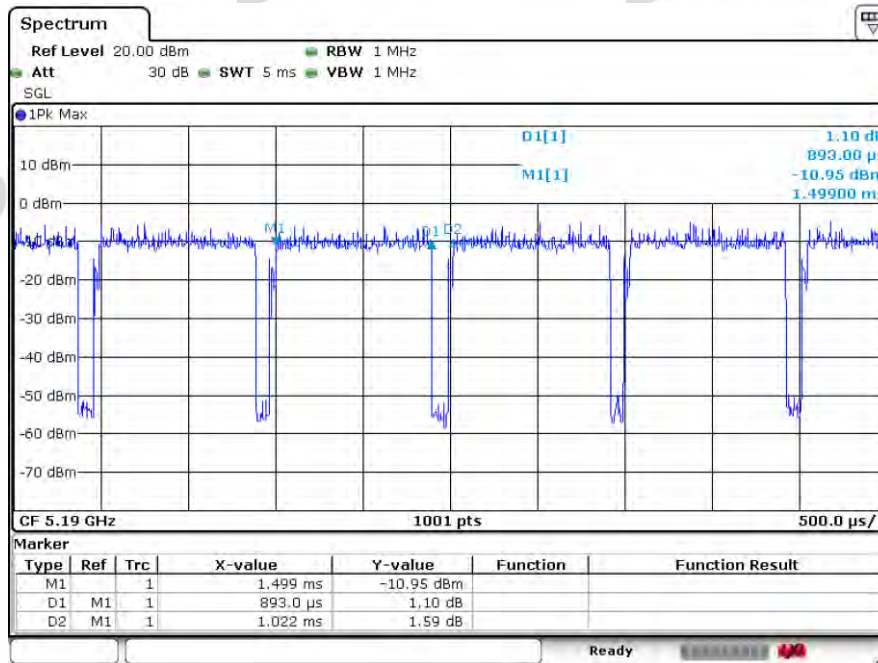
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11N20



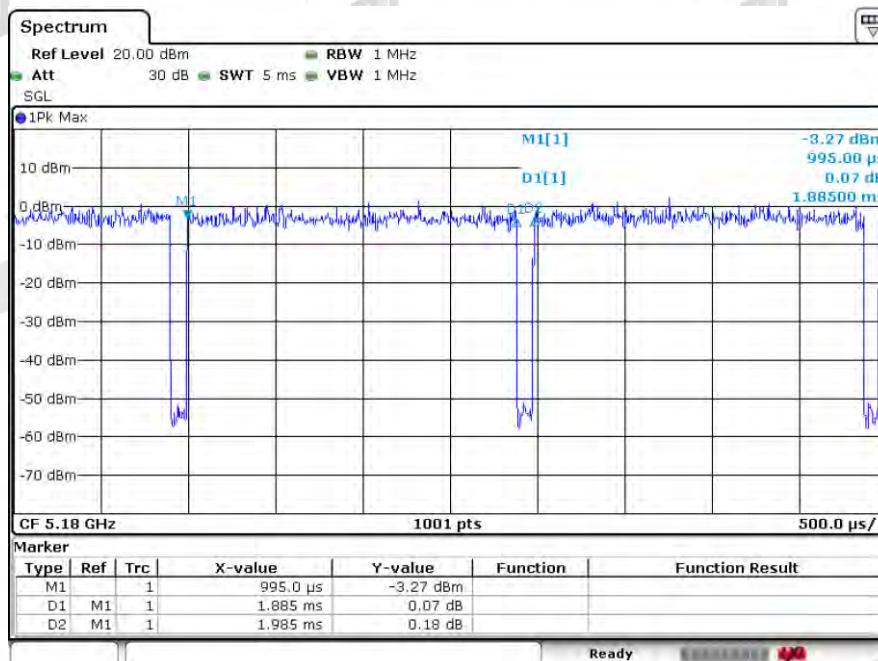
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11N40



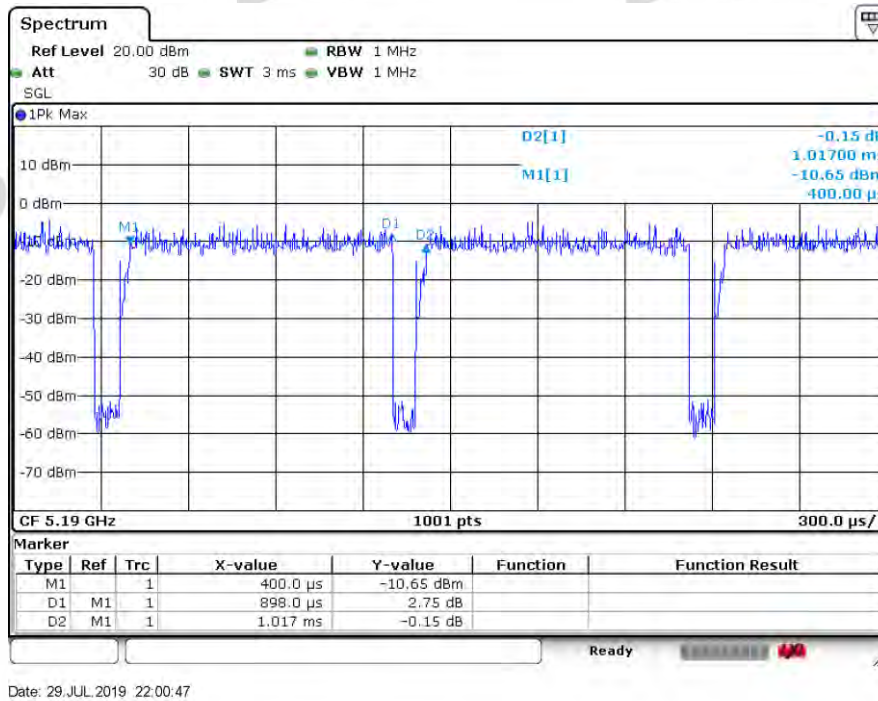
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11N20 MIMO

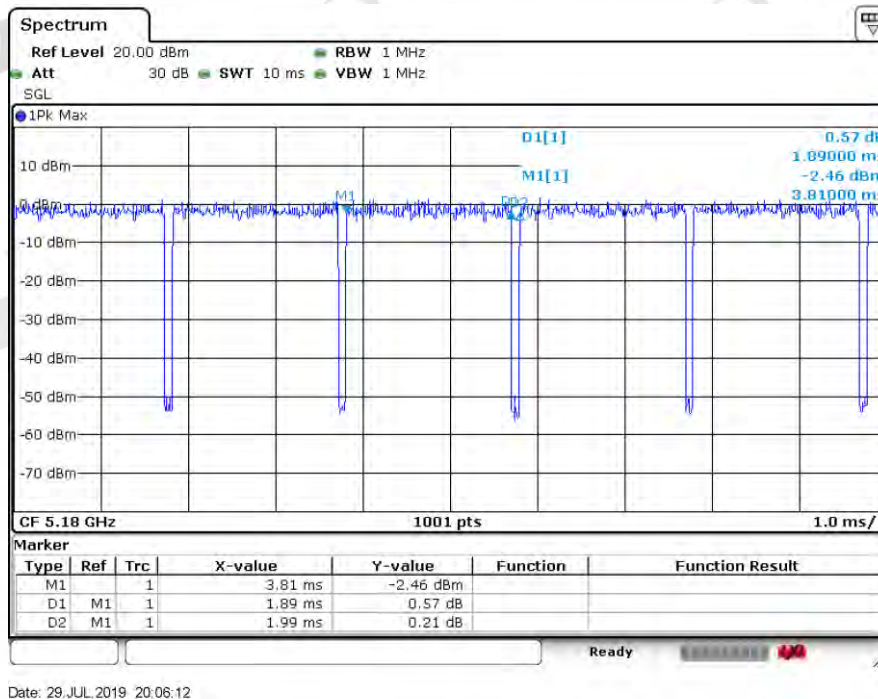


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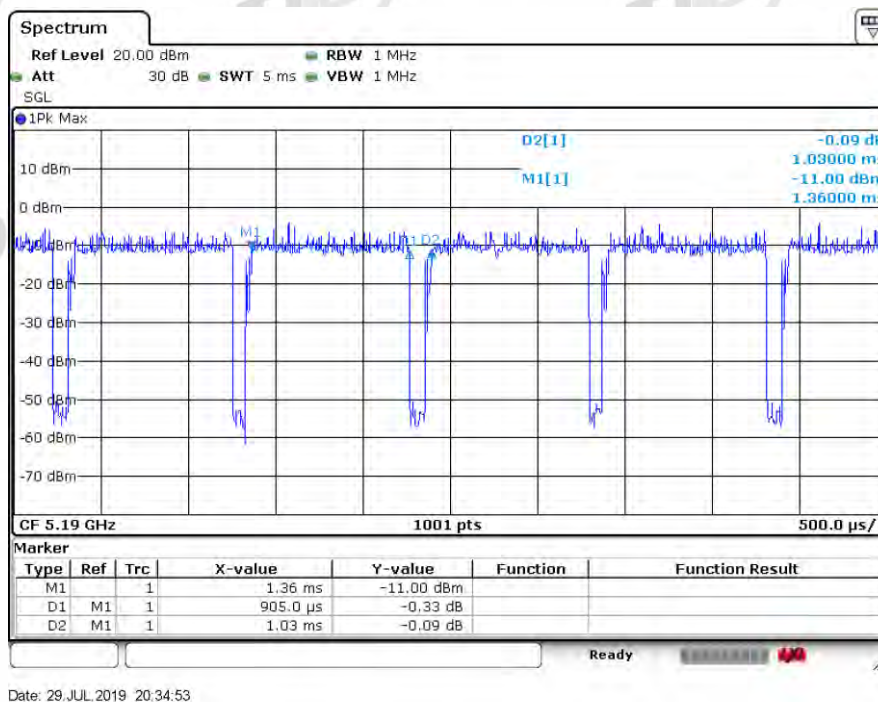
11N40 MIMO



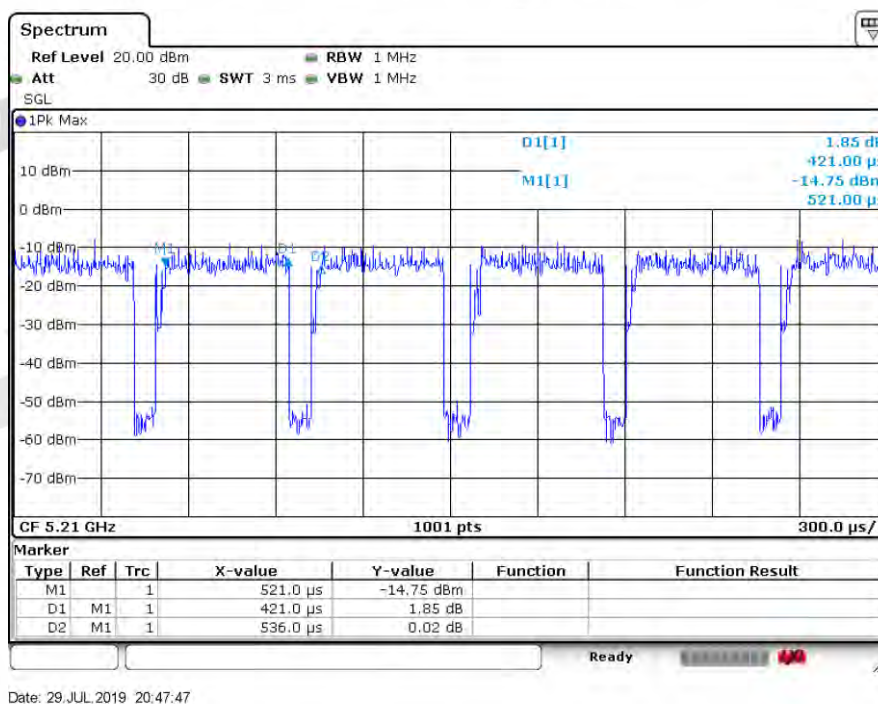
11AC20



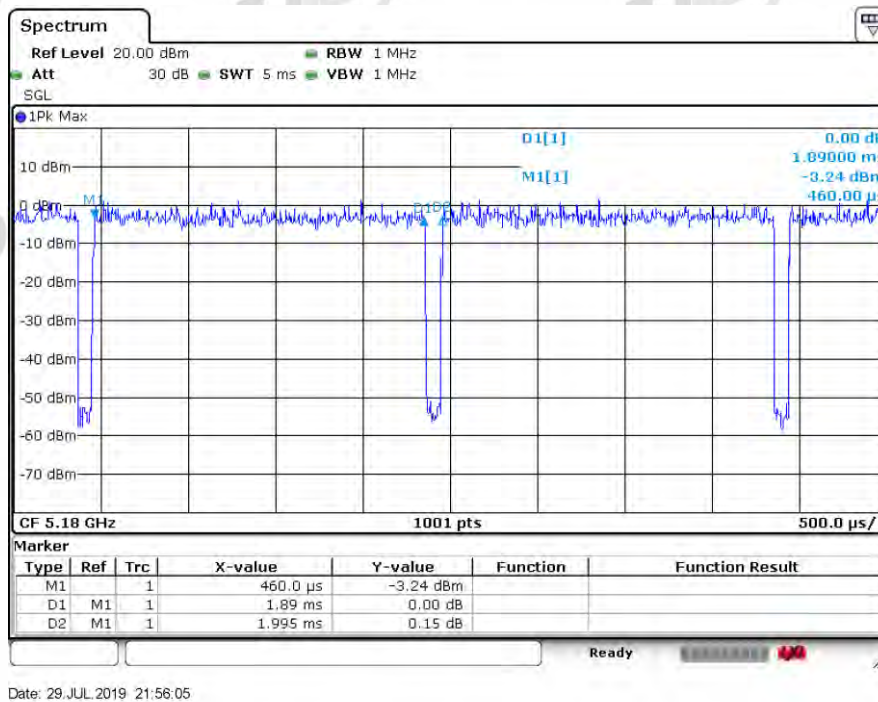
11AC40



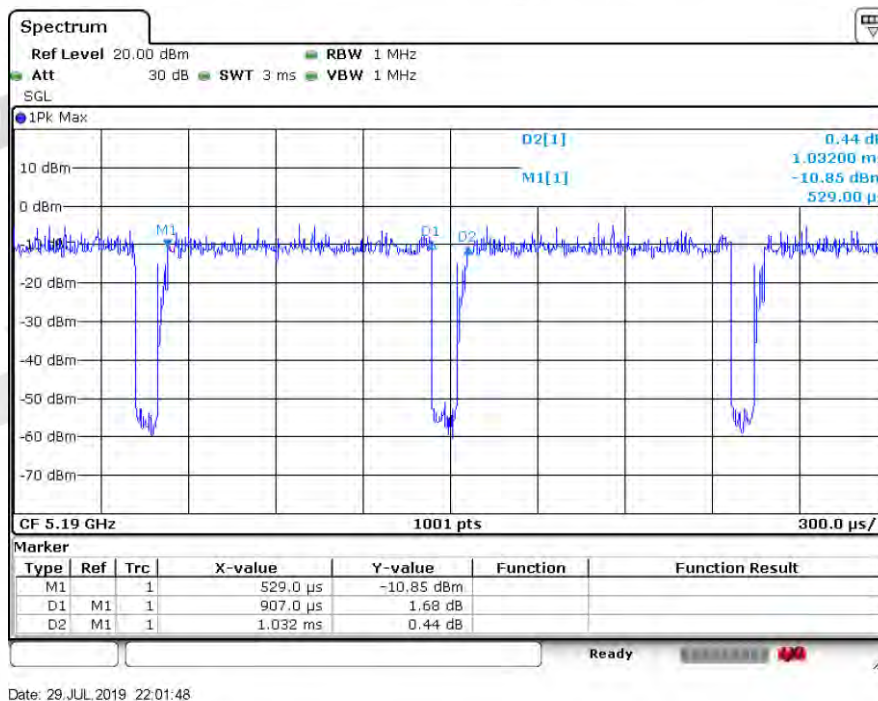
11AC80



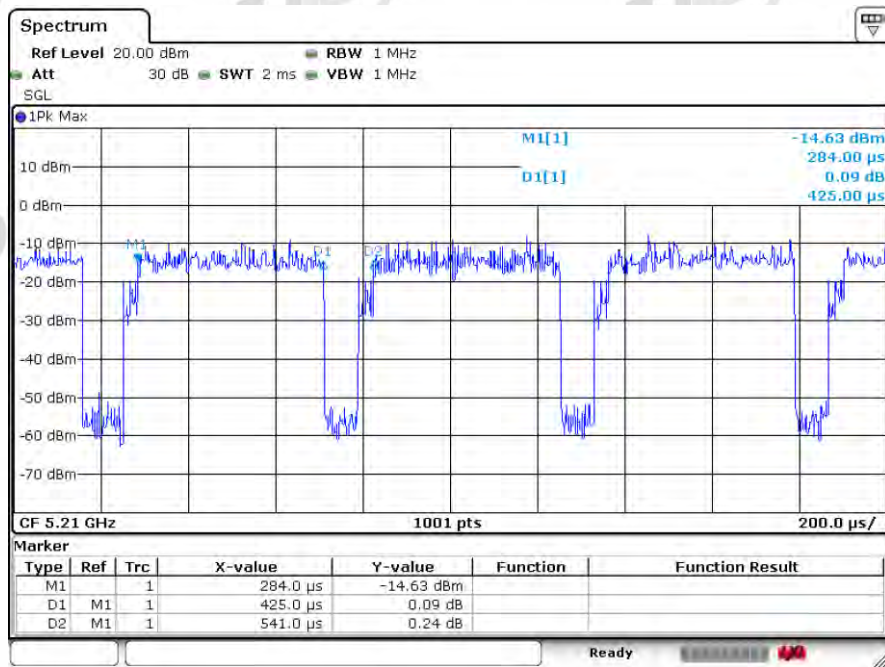
11AC20 MIMO



11AC40 MIMO



11AC80 MIMO



Date: 29.JUL.2019 22:05:04

Conducted Output Power

Test Mode	Test Channel	Frequency [MHz]	Meas. Level (Cond.) [dBm]			Verdict
			ANT 1	ANT 2	SUM	
11A20	36	5180	10.5	10.53	---	PASS
	48	5240	10.29	10.58	---	PASS
	52	5260	10.09	10.83	---	PASS
	64	5320	8.99	11.27	---	PASS
	100	5500	8.59	12.54	---	PASS
	140	5700	7.33	9.84	---	PASS
	149	5745	7.41	9.86	---	PASS
	165	5825	7.48	9.24	---	PASS
11N20	36	5180	10.36	8.34	---	PASS
	48	5240	10.19	8.49	---	PASS
	52	5260	9.97	8.81	---	PASS
	64	5320	8.88	9.24	---	PASS
	100	5500	8.49	10.5	---	PASS
	140	5700	7.19	7.64	---	PASS
	149	5745	7.3	7.8	---	PASS
	165	5825	7.32	6.95	---	PASS
11N20 MIMO	36	5180	10.63	7.6	12.38	PASS
	48	5240	10.42	7.68	12.27	PASS
	52	5260	10.22	7.94	12.24	PASS
	64	5320	9.05	8.32	11.71	PASS
	100	5500	8.85	9.72	12.32	PASS
	140	5700	7.48	6.9	10.21	PASS
	149	5745	7.53	6.82	10.20	PASS
	165	5825	7.61	6.15	9.95	PASS
11N40	38	5190	11.05	8.78	---	PASS
	46	5230	10.93	8.9	---	PASS
	54	5270	10.58	9.36	---	PASS
	62	5310	9.88	9.64	---	PASS
	102	5510	9.06	11.05	---	PASS
	134	5670	7.69	8.49	---	PASS
	151	5755	8.01	8.18	---	PASS
	159	5795	7.67	7.74	---	PASS
11N40 MIMO	38	5190	11.55	8.38	13.26	PASS
	46	5230	11.48	8.55	13.27	PASS
	54	5270	11.08	8.79	13.09	PASS

	62	5310	10.36	9.03	12.76	PASS
	102	5510	9.71	10.5	13.13	PASS
	134	5670	8.32	8.01	11.18	PASS
	151	5755	8.44	7.44	10.98	PASS
	159	5795	8.19	7.26	10.76	PASS
11AC20	36	5180	10.34	8.33	---	PASS
	48	5240	10.18	8.5	---	PASS
	52	5260	9.99	8.8	---	PASS
	64	5320	9.31	9.23	---	PASS
	100	5500	8.5	10.51	---	PASS
	140	5700	7.24	7.65	---	PASS
	149	5745	7.36	7.81	---	PASS
	165	5825	7.45	6.94	---	PASS
11AC20 MIMO	36	5180	11.14	8.47	13.02	PASS
	48	5240	11.09	8.12	12.86	PASS
	52	5260	10.82	8.58	12.85	PASS
	64	5320	9.57	8.94	12.28	PASS
	100	5500	9.36	9.91	12.65	PASS
	140	5700	8.04	7.19	10.65	PASS
	149	5745	8.03	7.1	10.60	PASS
	165	5825	7.93	6.62	10.33	PASS
11AC40	38	5190	11.06	8.8	---	PASS
	46	5230	10.93	8.92	---	PASS
	54	5270	10.62	9.37	---	PASS
	62	5310	9.86	9.67	---	PASS
	102	5510	9.05	11.12	---	PASS
	134	5670	7.75	8.5	---	PASS
	151	5755	7.98	8.23	---	PASS
	159	5795	7.74	7.76	---	PASS
11AC40 MIMO	38	5190	10.98	7.99	12.75	PASS
	46	5230	10.91	7.92	12.68	PASS
	54	5270	10.58	8.22	12.57	PASS
	62	5310	9.71	8.48	12.15	PASS
	102	5510	9.06	9.79	12.45	PASS
	134	5670	7.61	7.5	10.57	PASS
	151	5755	7.71	6.72	10.25	PASS
	159	5795	7.53	6.45	10.03	PASS
11AC80	42	5210	10.02	6.66	---	PASS

	58	5290	9.22	7.38	---	PASS
	106	5530	7.83	8.39	---	PASS
	138	5690	6.43	5.82	---	PASS
	155	5775	6.65	5.67	---	PASS
11AC80 MIMO	42	5210	10.07	6.71	11.72	PASS
	58	5290	9.14	7.32	11.33	PASS
	106	5530	7.87	8.32	11.11	PASS
	138	5690	6.39	5.92	9.17	PASS
	155	5775	6.65	5.6	9.17	PASS

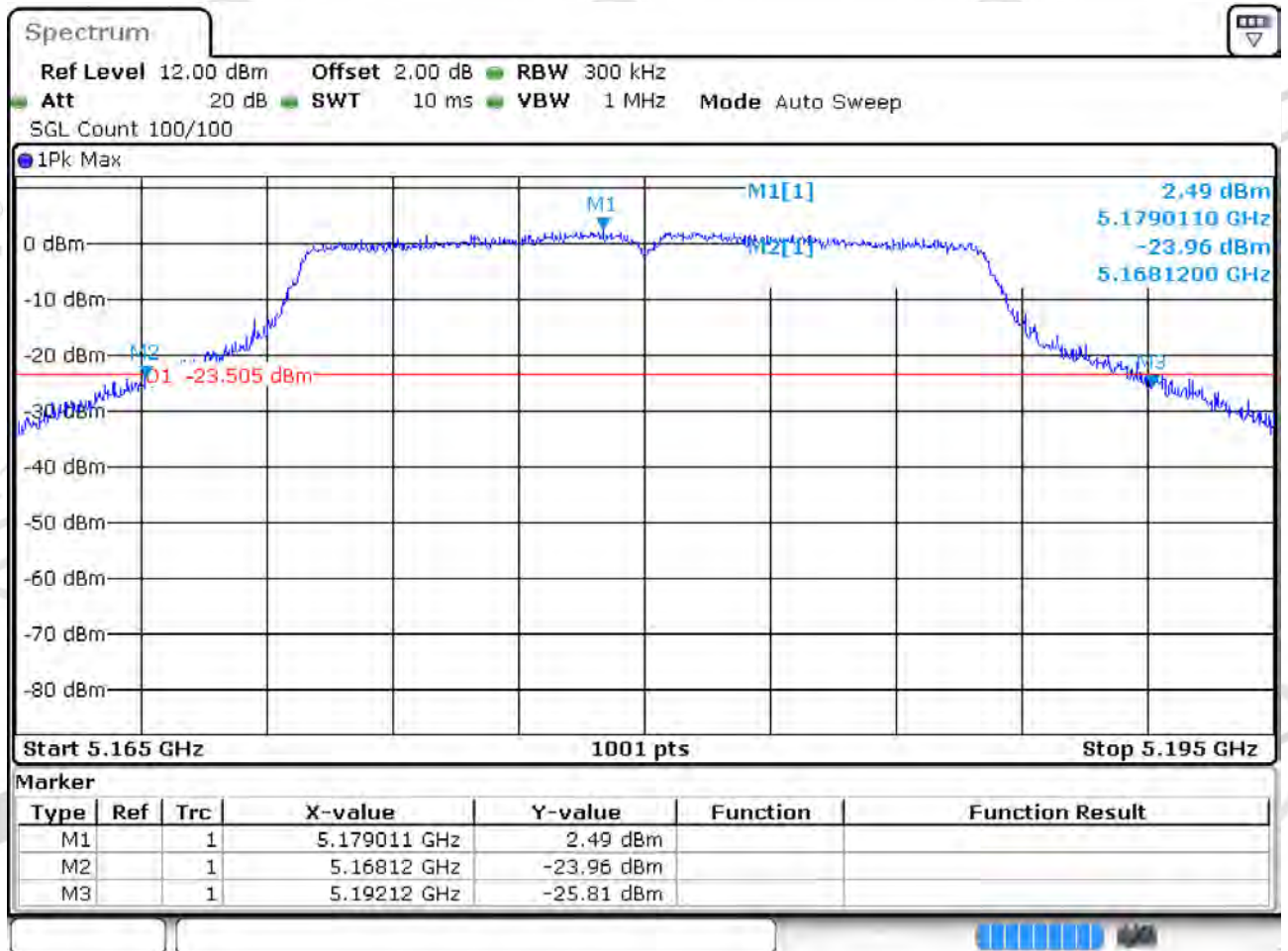
26dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	26dB Emission Bandwidth [MHz]		Verdict
			ANT 1	ANT 2	
11A20	36	5180	24	23.94	PASS
	48	5240	24.15	23.7	PASS
	52	5260	24.18	23.58	PASS
	64	5320	24.18	23.82	PASS
	100	5500	24.09	23.88	PASS
	140	5700	23.67	23.43	PASS
11N20	36	5180	25.02	25.35	PASS
	48	5240	25.05	25.44	PASS
	52	5260	24.21	24.96	PASS
	64	5320	24.54	24.84	PASS
	100	5500	25.17	25.41	PASS
	140	5700	24.33	24.69	PASS
11N20 MIMO	36	5180	25.53	24.72	PASS
	48	5240	24.9	24.66	PASS
	52	5260	24.84	24.12	PASS
	64	5320	24.87	24.09	PASS
	100	5500	25.02	24.66	PASS
	140	5700	24.66	23.97	PASS
11N40	38	5190	41.94	41.82	PASS
	46	5230	41.64	41.76	PASS
	54	5270	41.76	41.58	PASS
	62	5310	41.52	41.82	PASS
	102	5510	41.88	41.4	PASS
	134	5670	41.76	41.58	PASS
11N40 MIMO	38	5190	42.06	40.92	PASS
	46	5230	41.82	40.68	PASS
	54	5270	41.46	41.58	PASS
	62	5310	42.18	40.8	PASS
	102	5510	41.76	40.86	PASS
	134	5670	41.76	41.16	PASS
11AC20	36	5180	24.78	24.33	PASS
	48	5240	24.63	24.87	PASS
	52	5260	24.93	25.23	PASS
	64	5320	25.02	24.9	PASS
	100	5500	24.93	24.87	PASS
	140	5700	24.72	24.45	PASS
11AC20 MIMO	36	5180	22.83	22.23	PASS
	48	5240	23.1	22.5	PASS
	52	5260	22.56	22.5	PASS
	64	5320	22.95	22.41	PASS
	100	5500	22.92	22.35	PASS
	140	5700	23.1	22.62	PASS
11AC40	38	5190	41.4	41.7	PASS
	46	5230	41.64	41.46	PASS
	54	5270	41.94	42	PASS
	62	5310	41.64	41.76	PASS
	102	5510	41.76	41.7	PASS
	134	5670	41.76	41.64	PASS

11AC40 MIMO	38	5190	43.98	44.58	PASS
	46	5230	44.28	44.16	PASS
	54	5270	44.4	44.58	PASS
	62	5310	44.04	44.82	PASS
	102	5510	44.04	44.22	PASS
	134	5670	43.98	44.1	PASS
11AC80	42	5210	83.84	84	PASS
	58	5290	84.16	84.8	PASS
	106	5530	83.84	83.84	PASS
	138	5690	84.64	84.32	PASS
11AC80 MIMO	42	5210	90.24	88.32	PASS
	58	5290	89.6	87.68	PASS
	106	5530	90.4	89.12	PASS
	138	5690	90.08	87.36	PASS

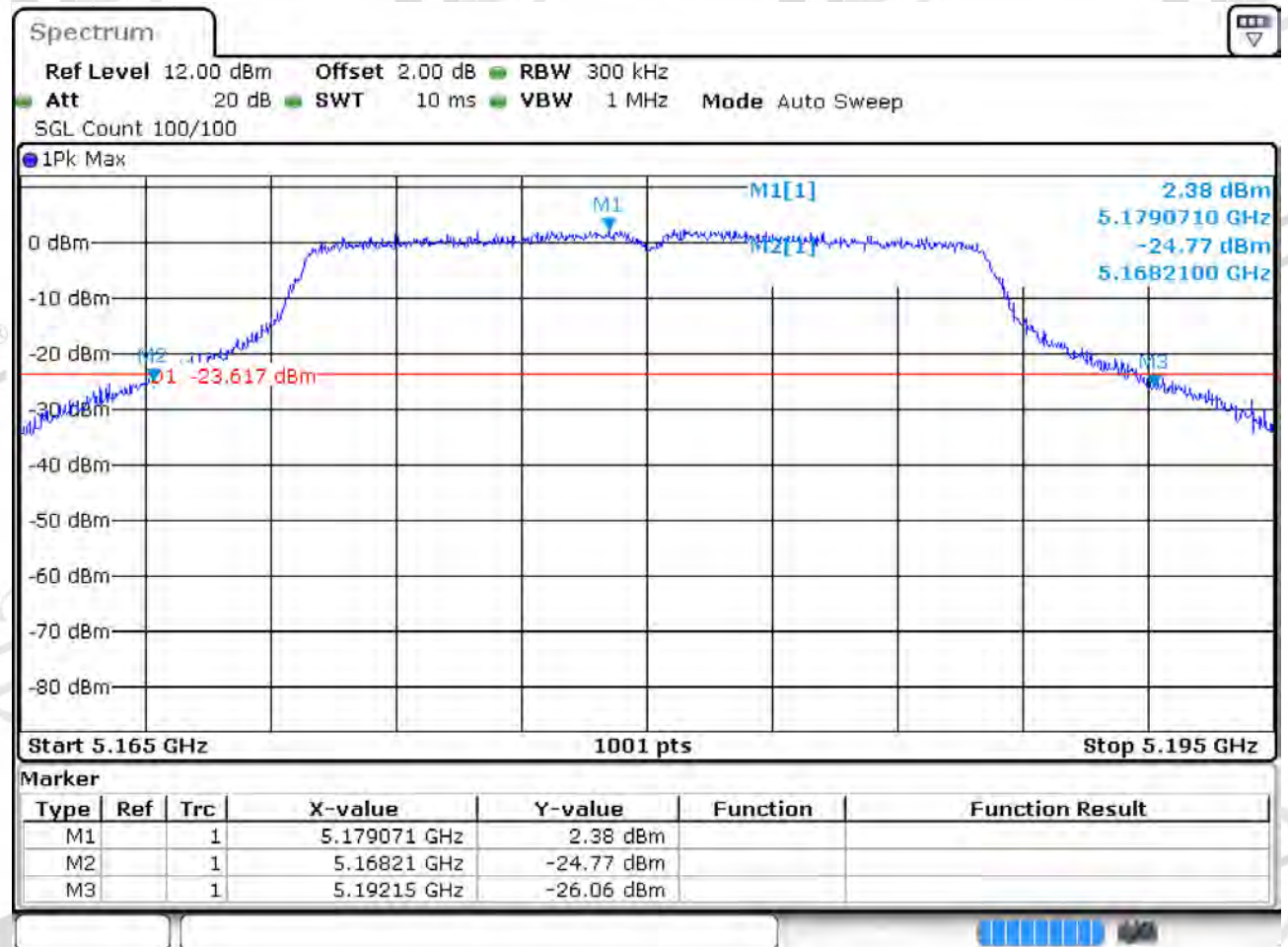
Plots for 26dB Emission Bandwidth

11A20_36 ANT 1



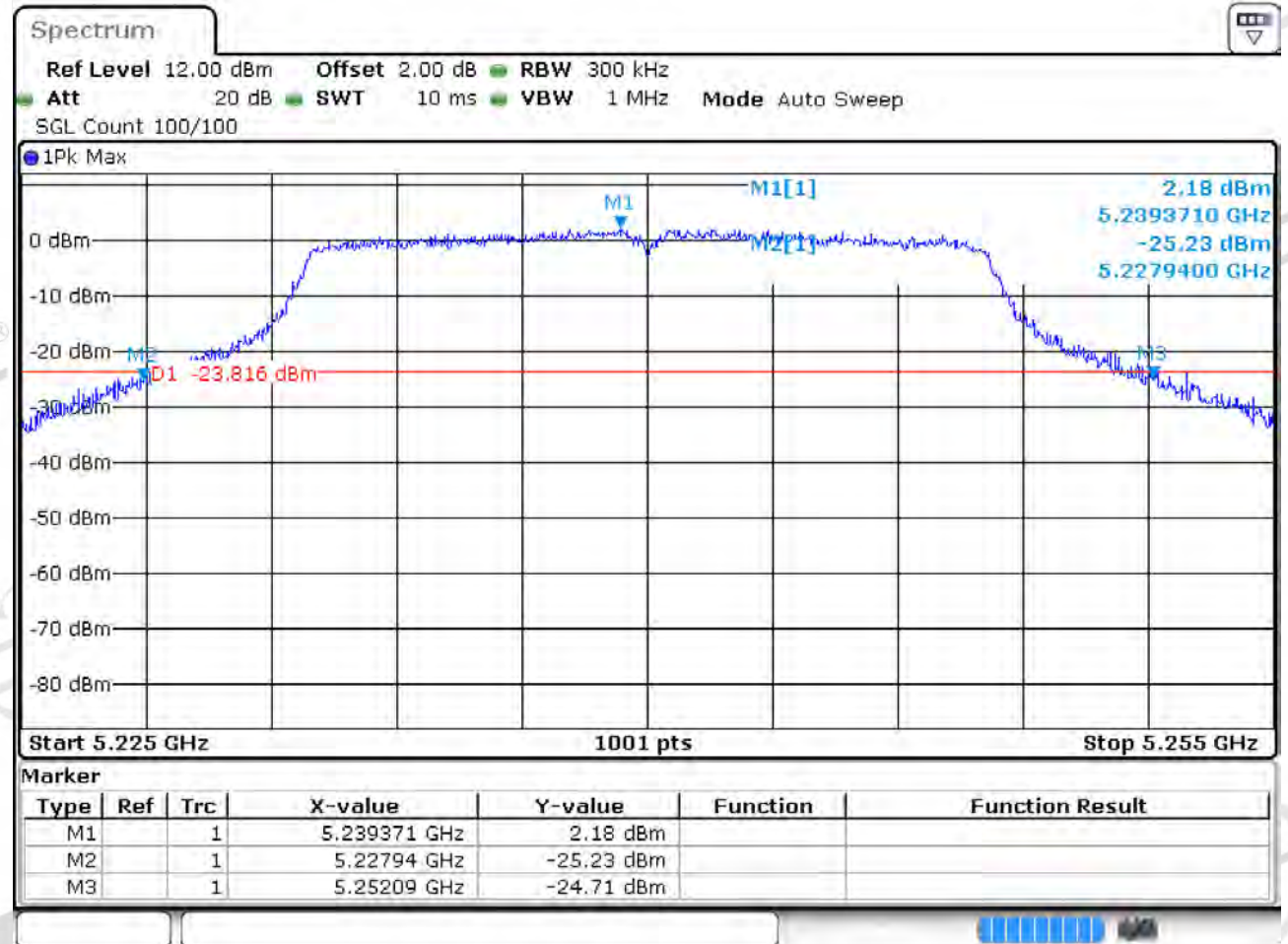
Date: 31.JUL.2019 01:09:04

11A20_36 ANT 2



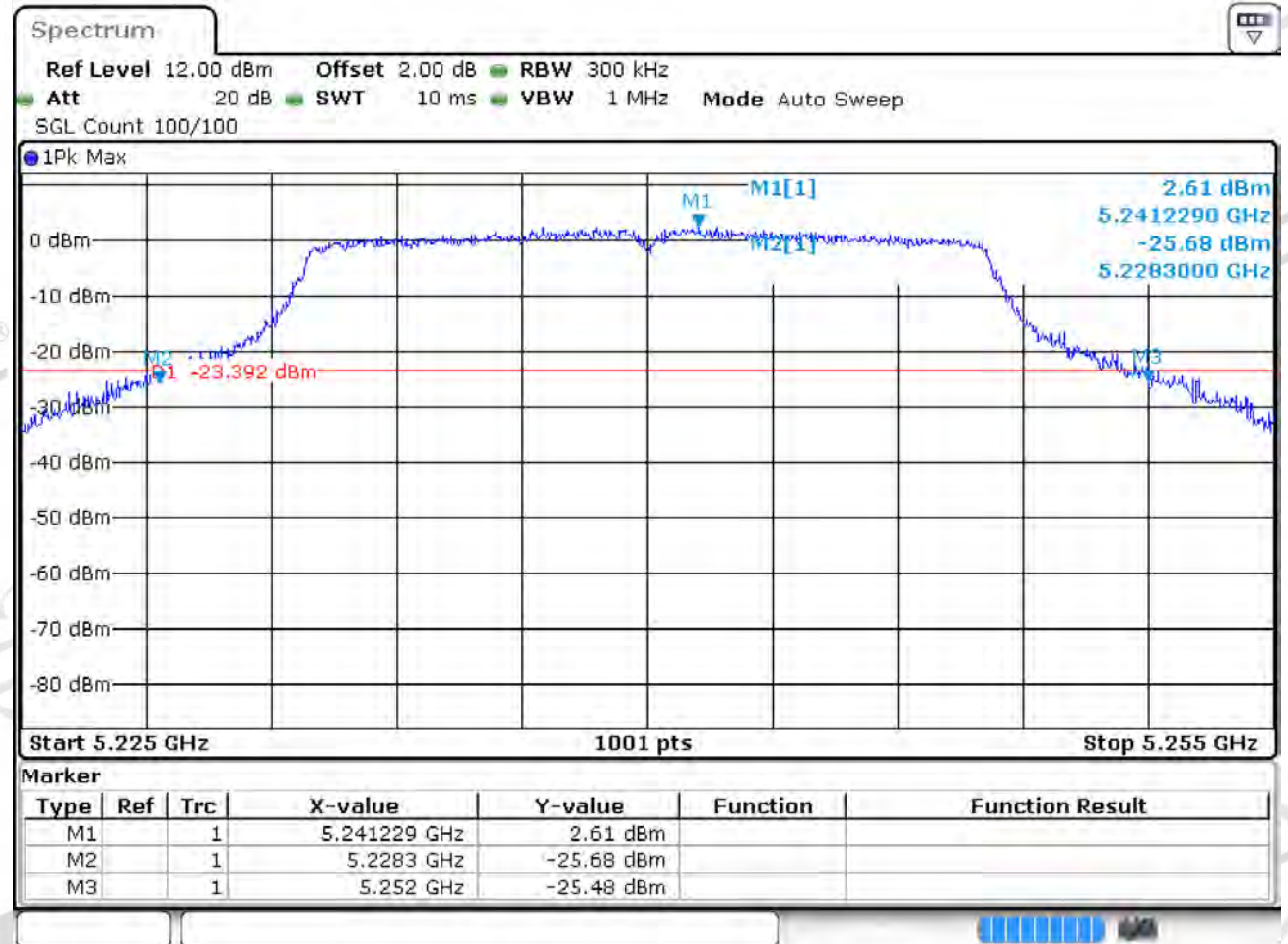
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11A20_48 ANT 1



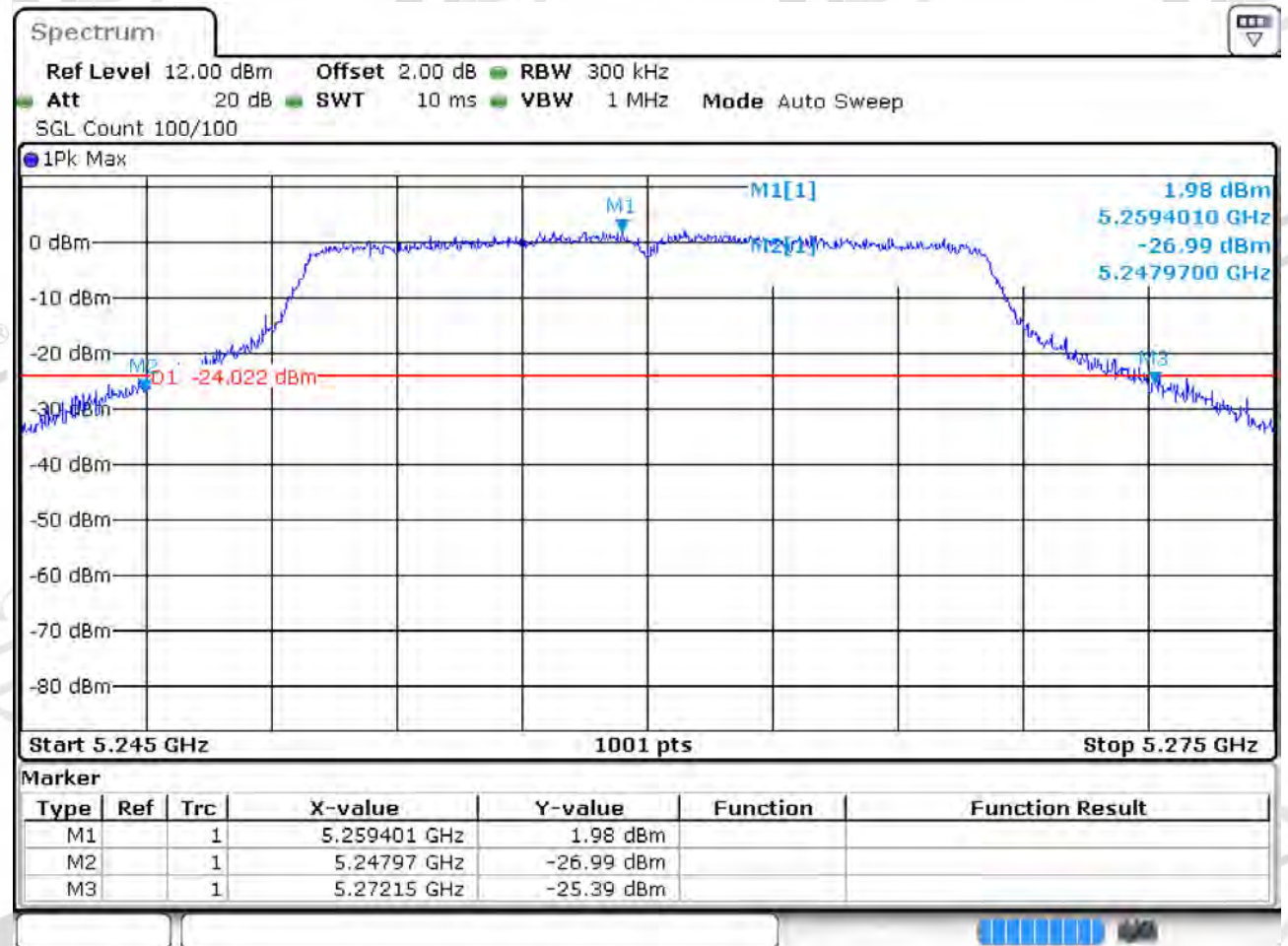
Date: 29 JUL 2019 21:34:02

11A20_48 ANT 2



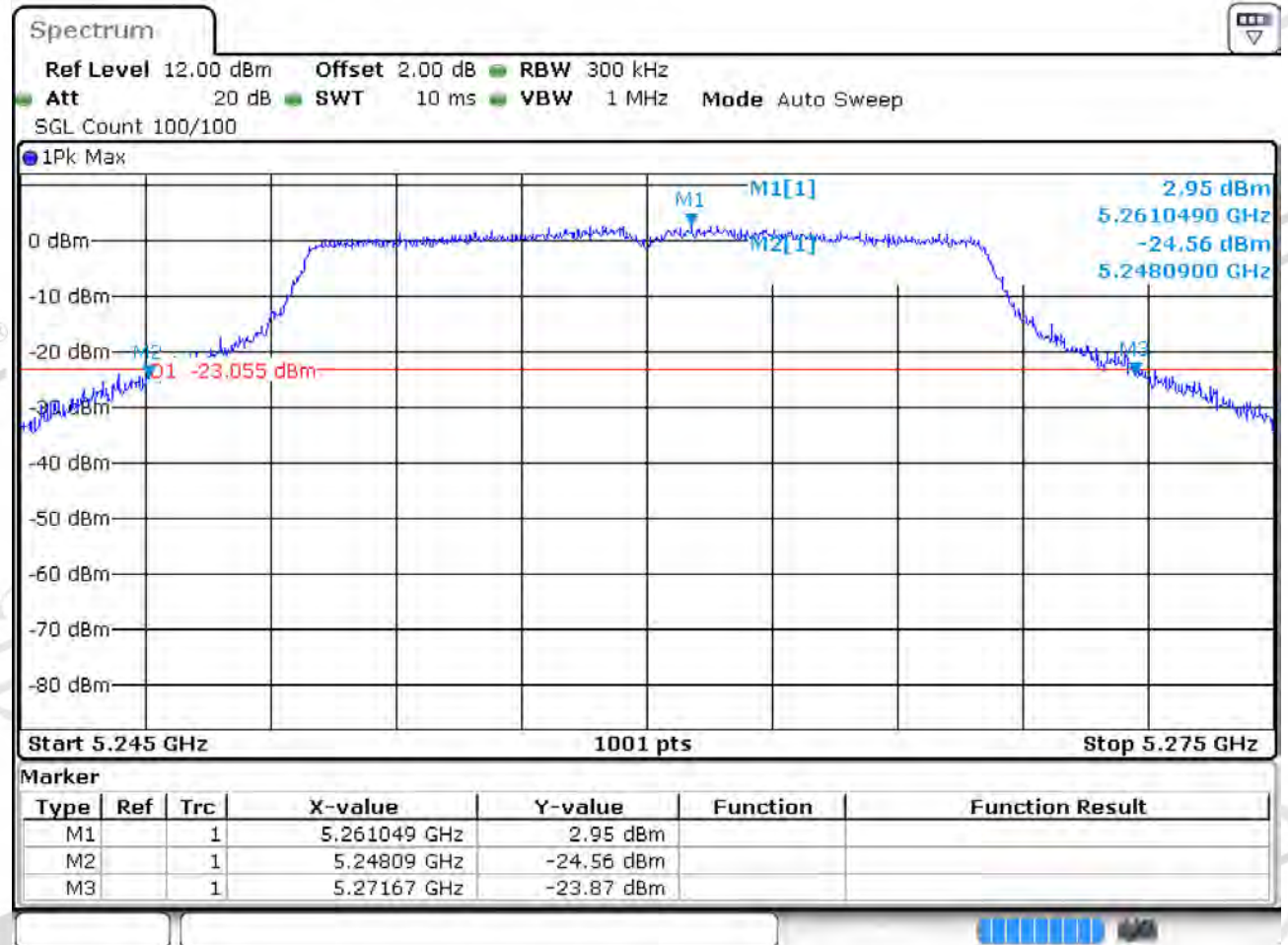
Date: 29 JUL 2019 22:10:08

11A20_52 ANT 1



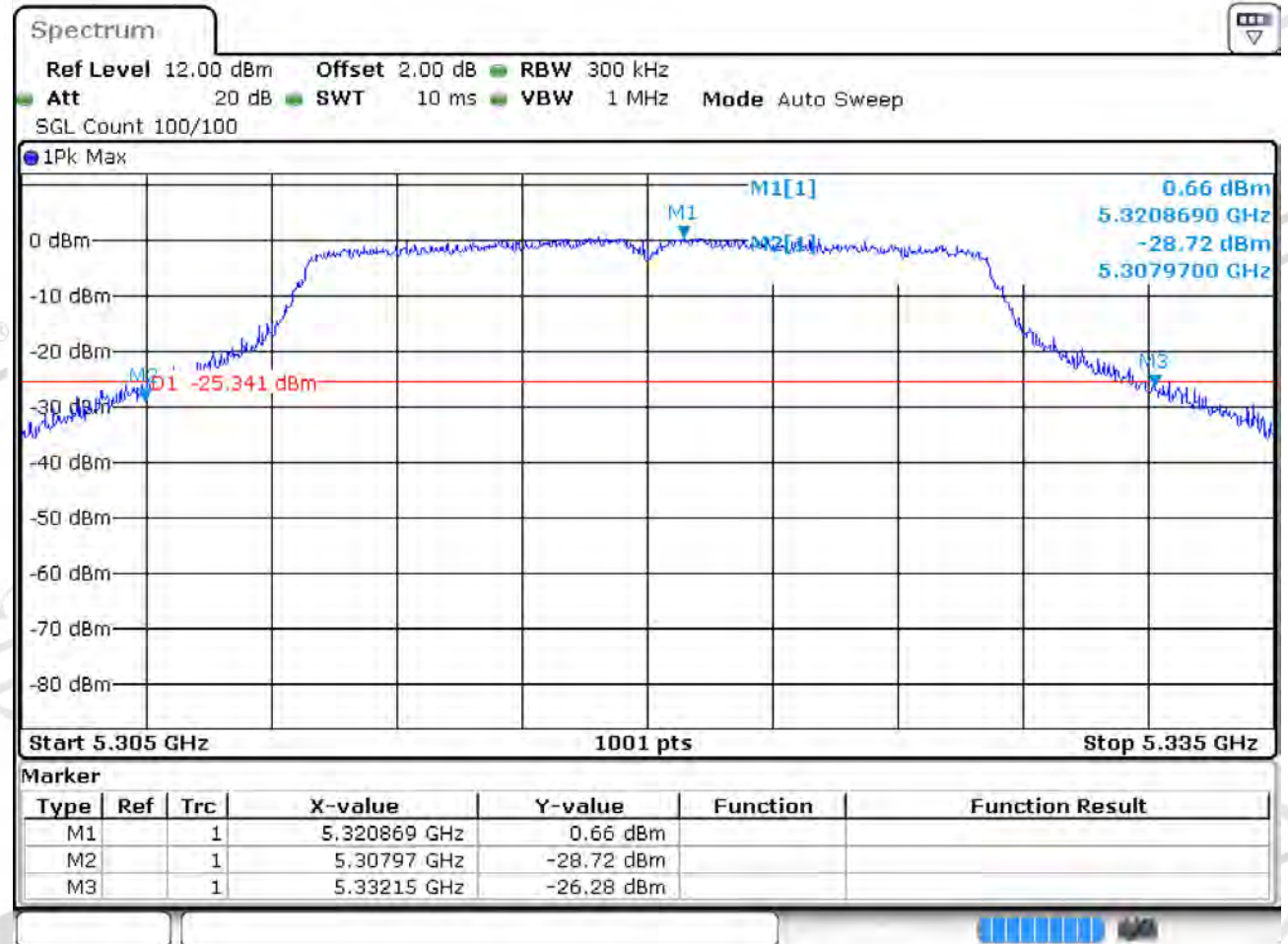
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11A20_52 ANT 2



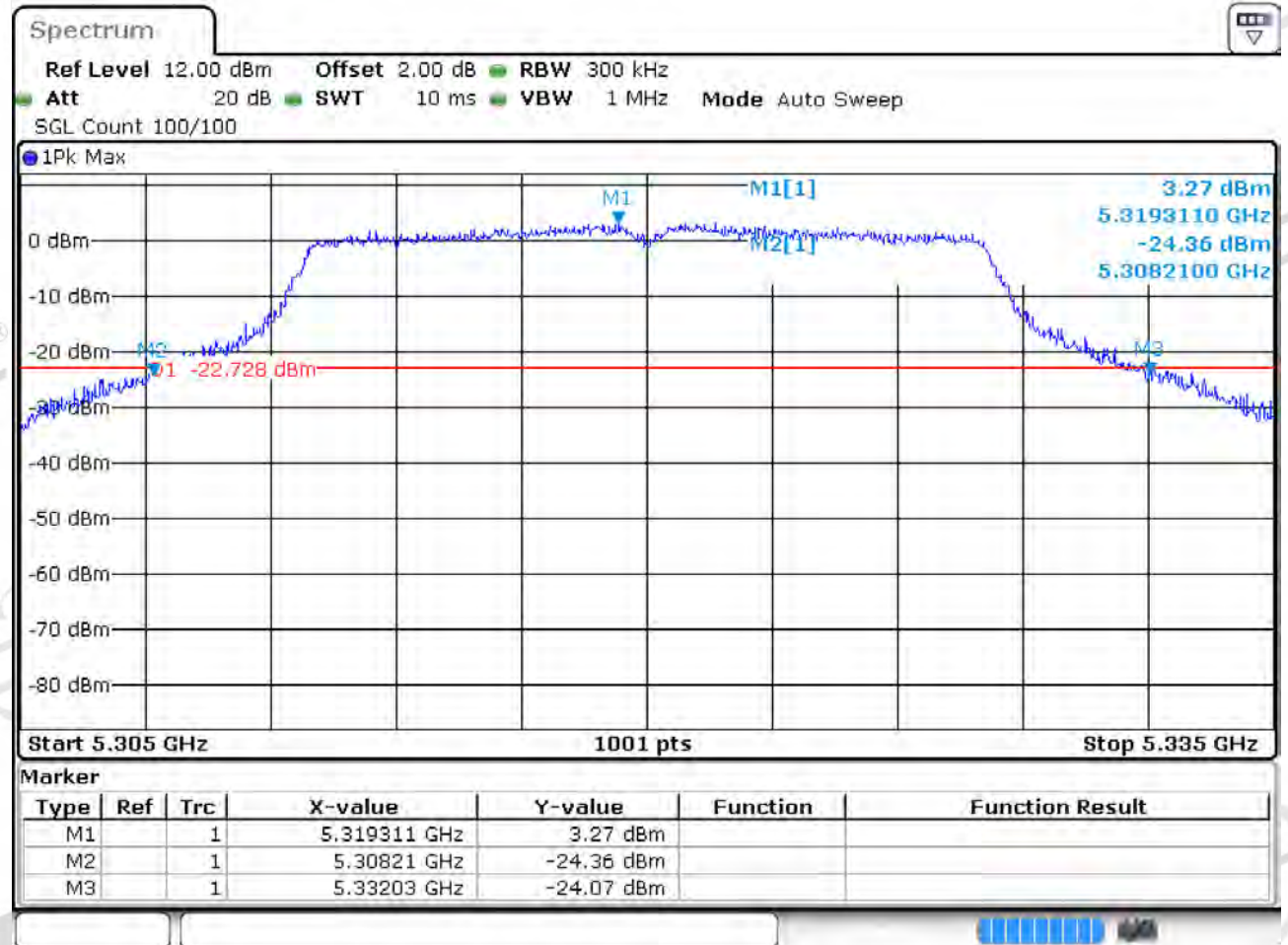
Date: 29 JUL 2019 22:11:29

11A20_64 ANT 1



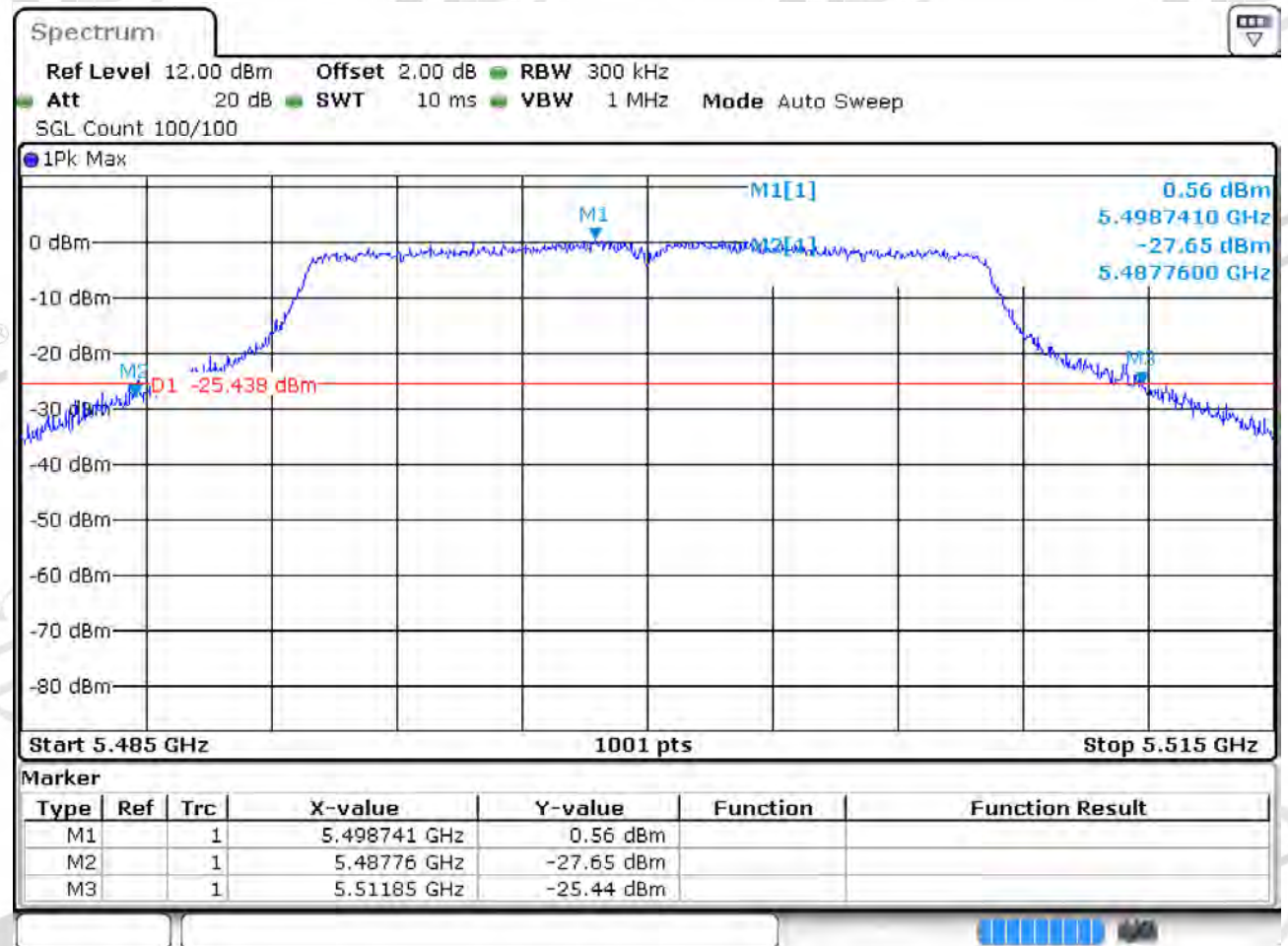
Date: 29 JUL 2019 21:38:32

11A20_64 ANT 2



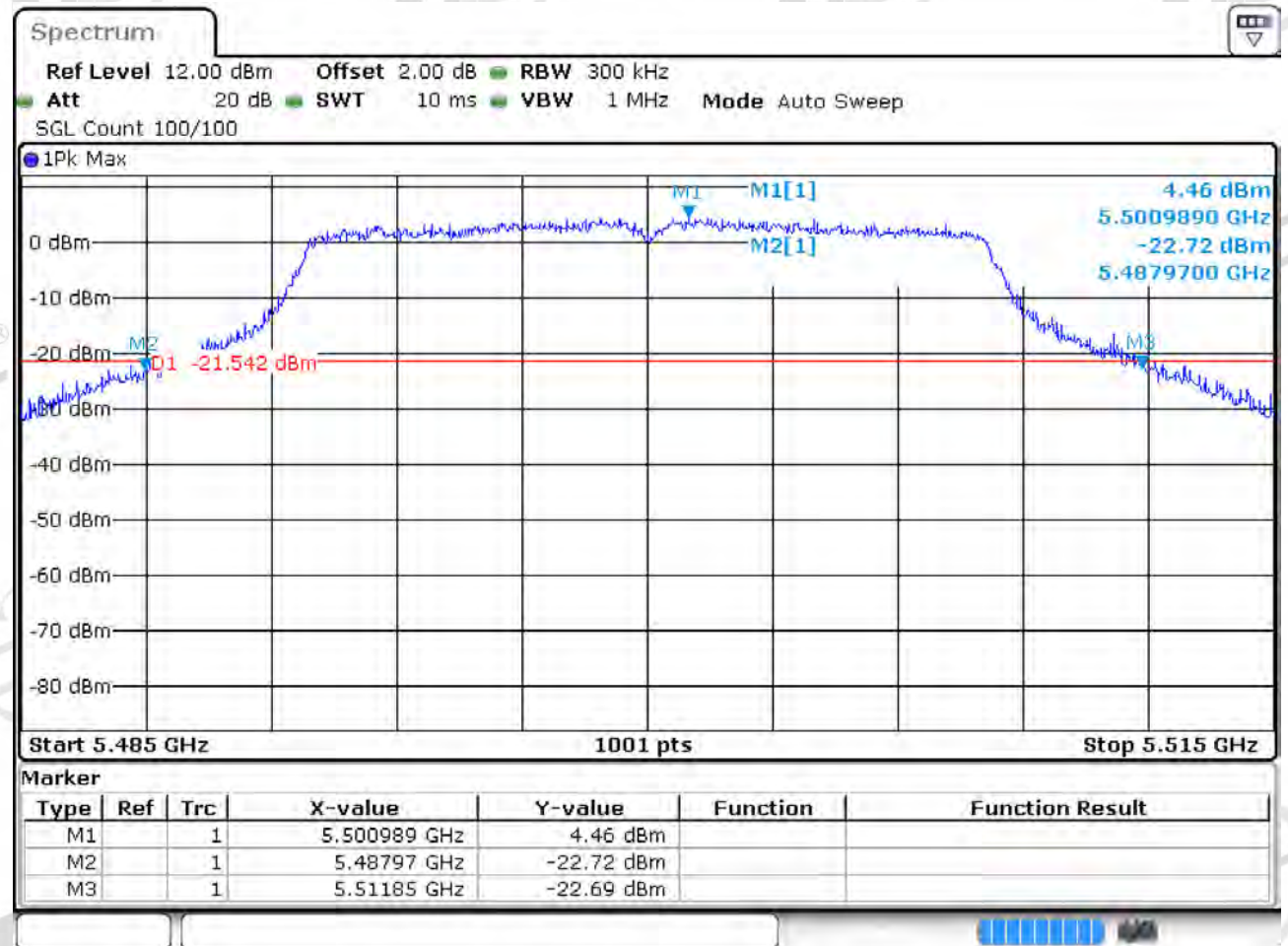
Date: 29 JUL 2019 22:18:02

11A20_100 ANT 1



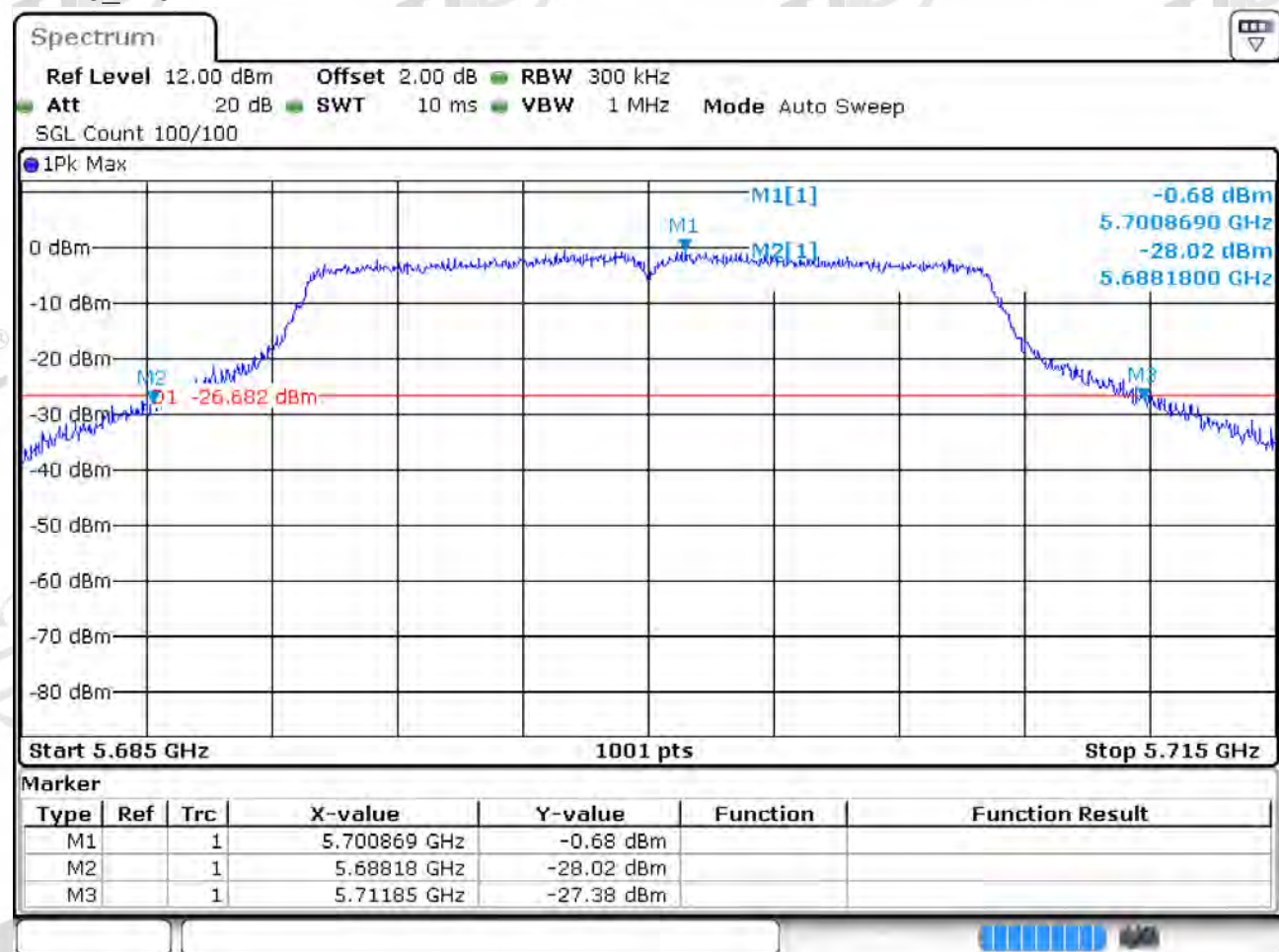
Date: 29 JUL 2019 21:43:11

11A20_100 ANT 2



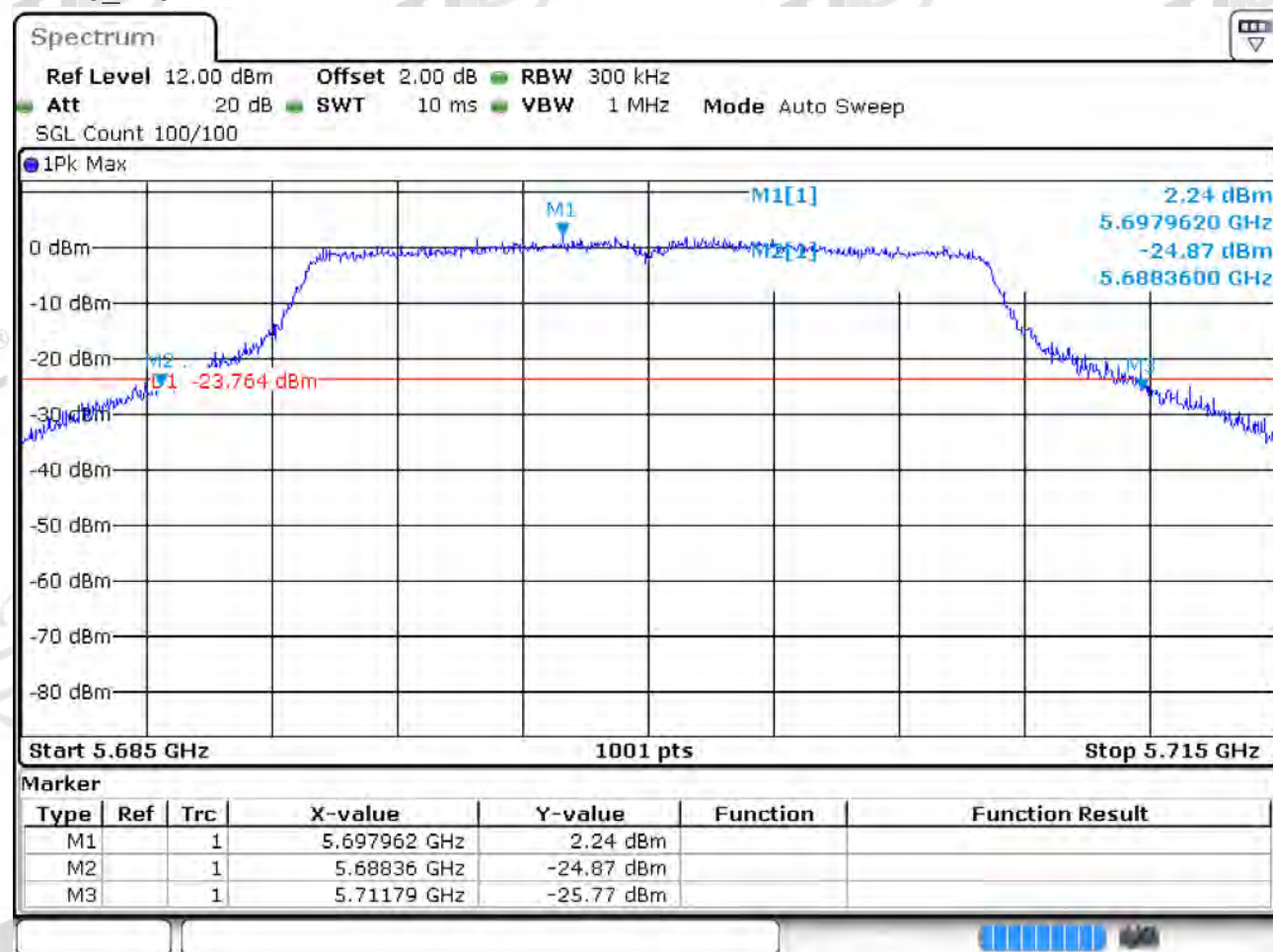
Date: 29 JUL 2019 22:20:15

11A20_140 ANT 1



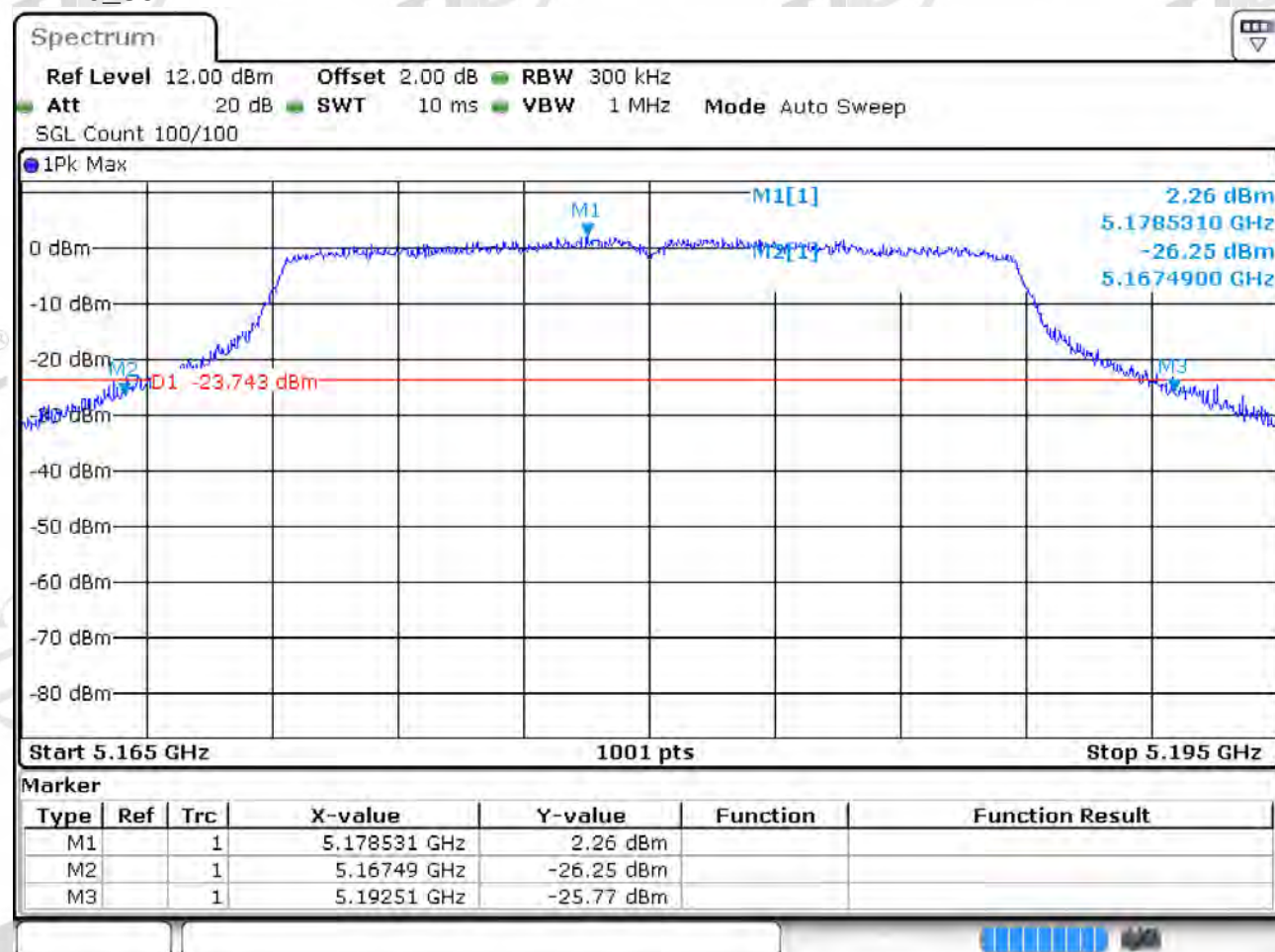
Date: 29 JUL 2019 21:44:27

11A20_140 ANT 2



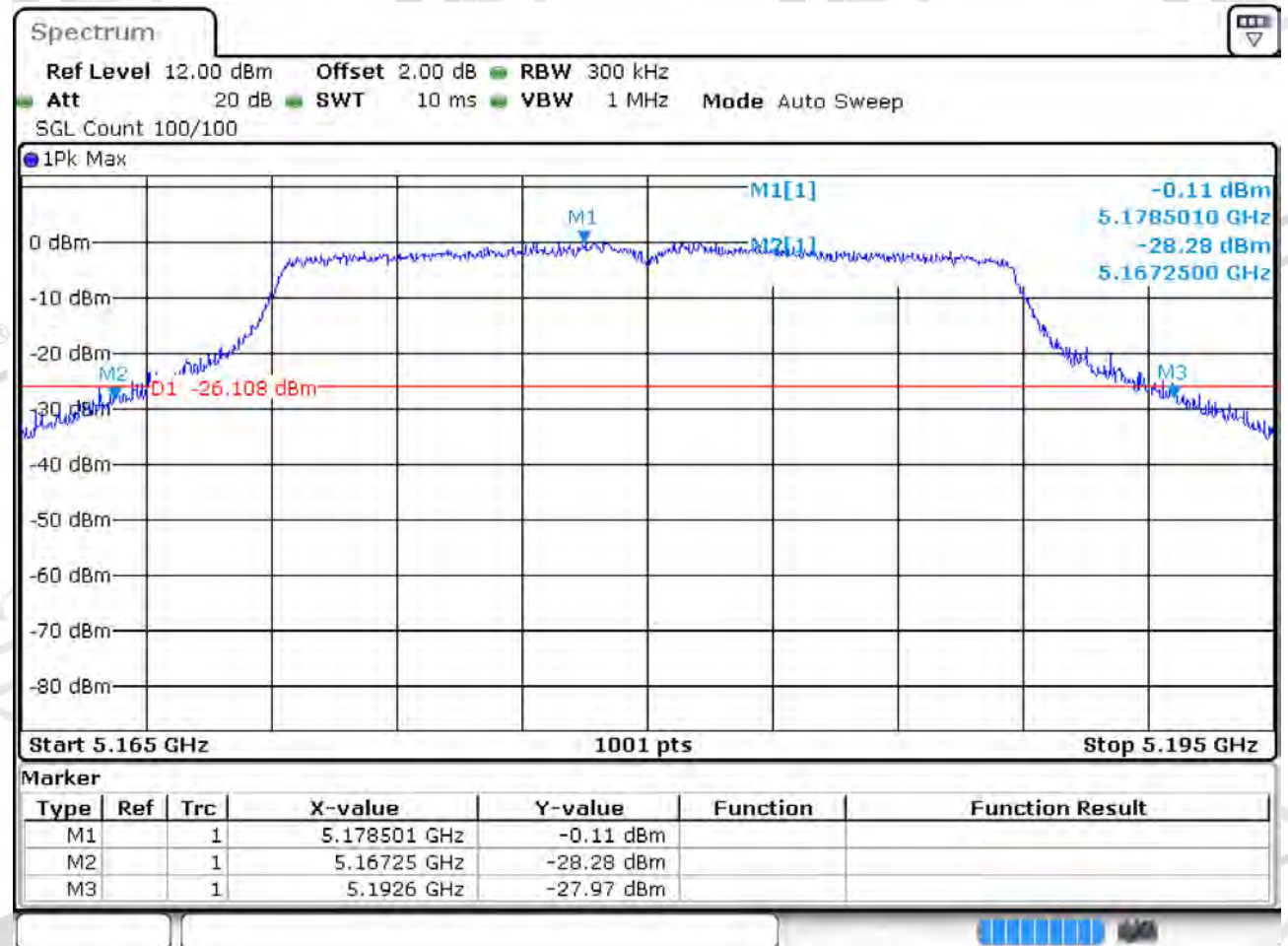
Date: 29 JUL 2019 22:21:55

11N20_36 ANT 1



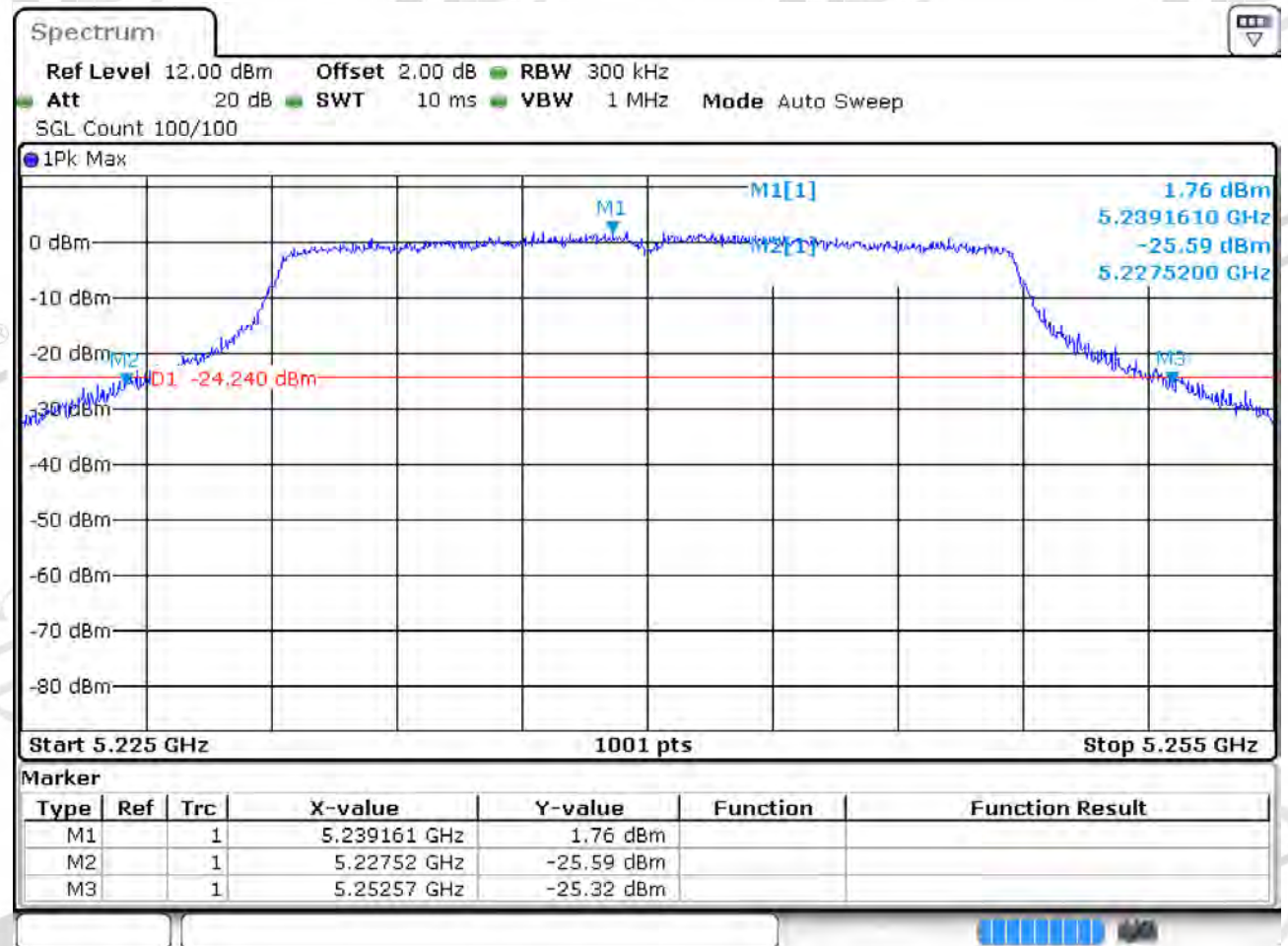
Date: 30 JUL 2019 00:33:56

11N20_36 ANT 2



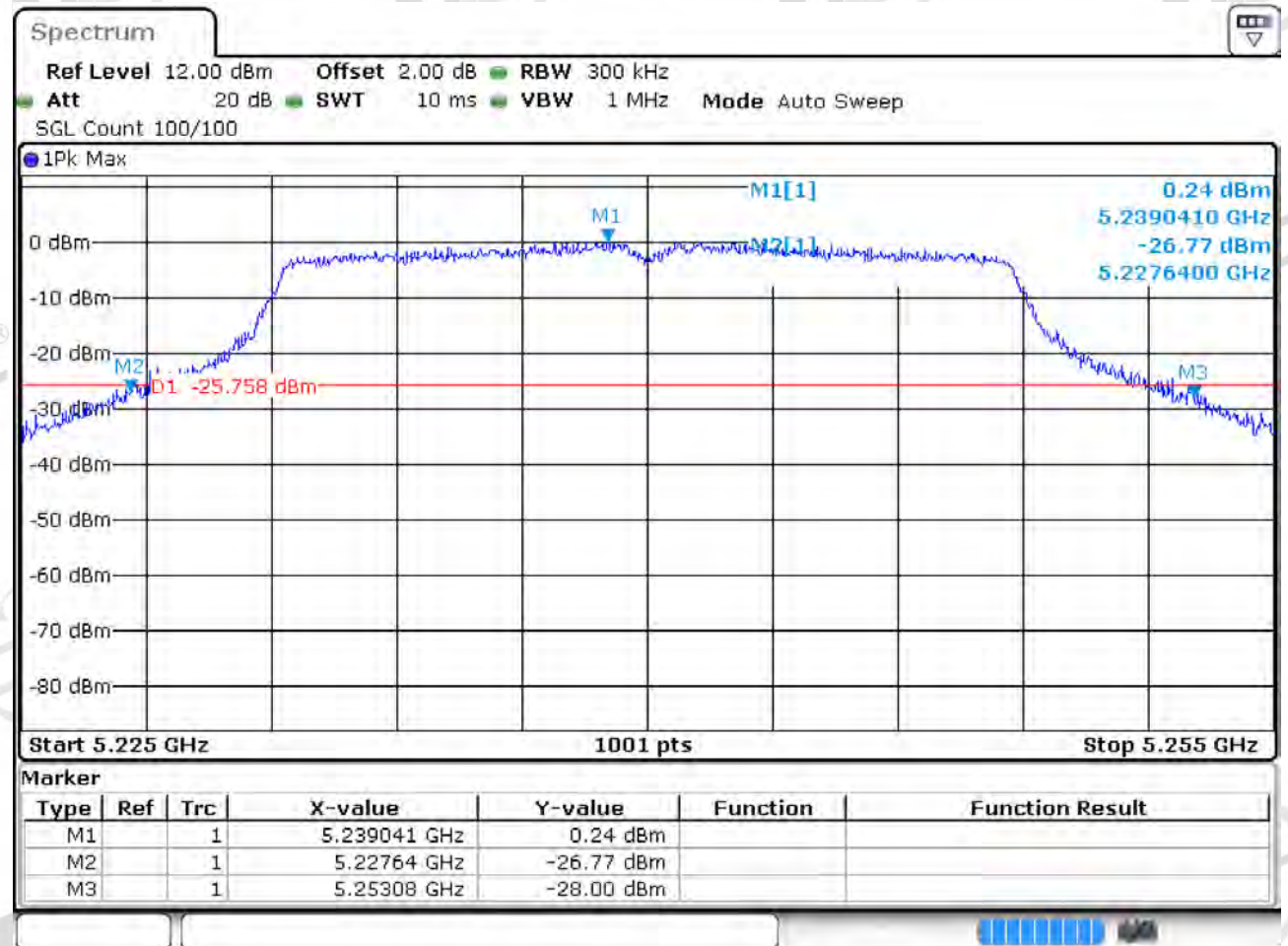
Date: 31.JUL.2019 01:15:15

11N20_48 ANT 1



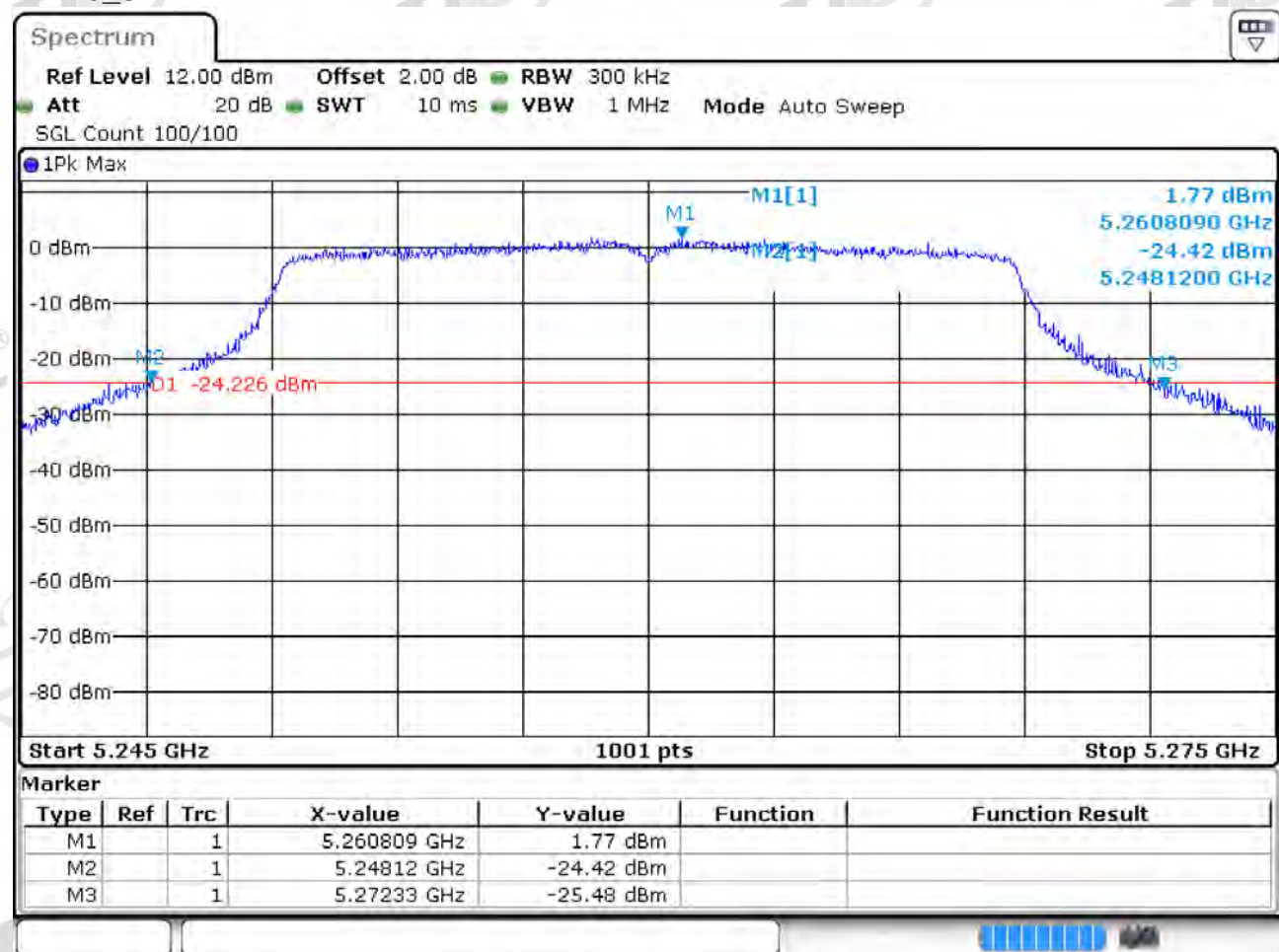
Date: 30 JUL 2019 00:35:57

11N20_48 ANT 2



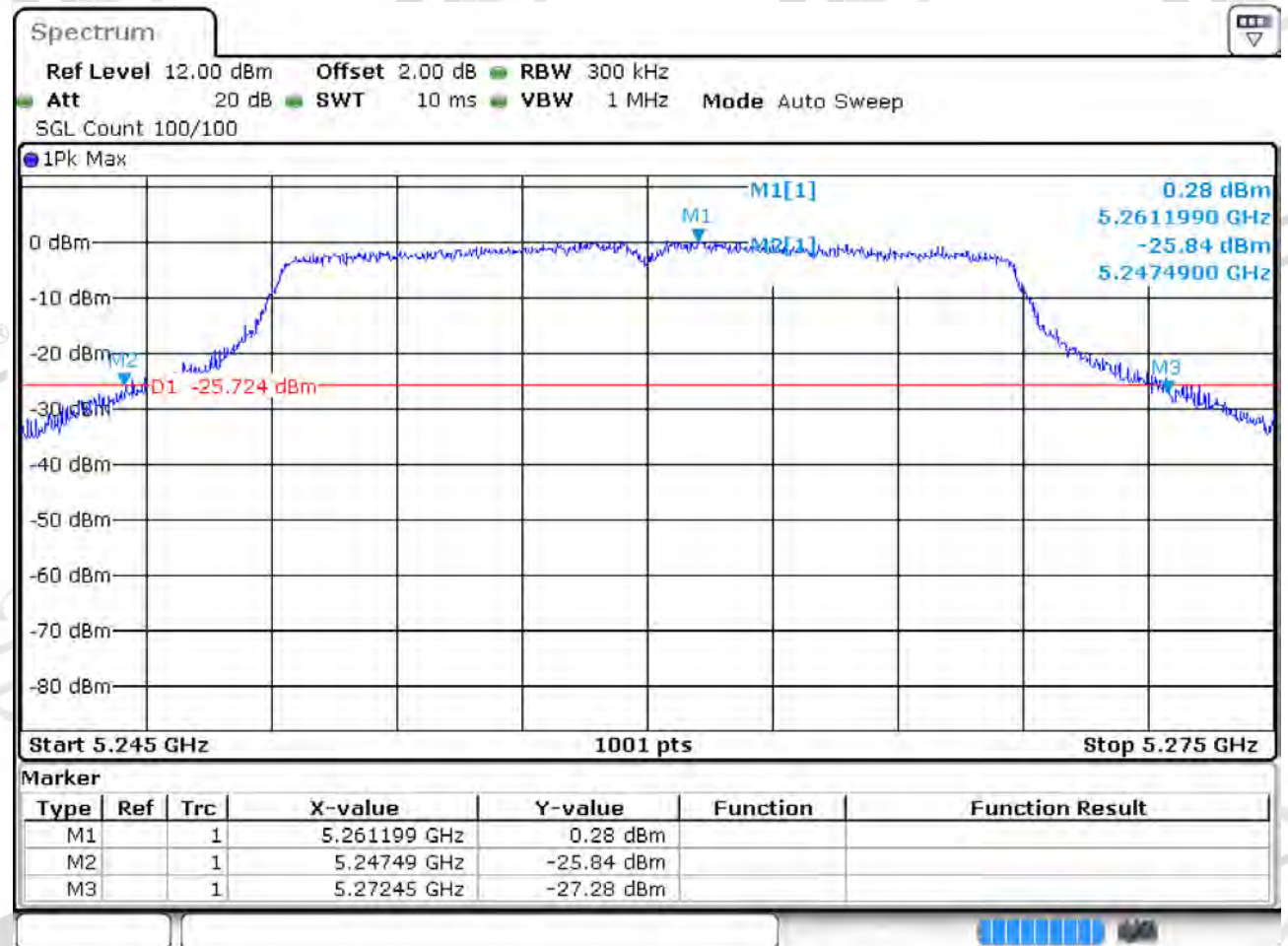
Date: 29 JUL 2019 22:32:28

11N20_52 ANT 1



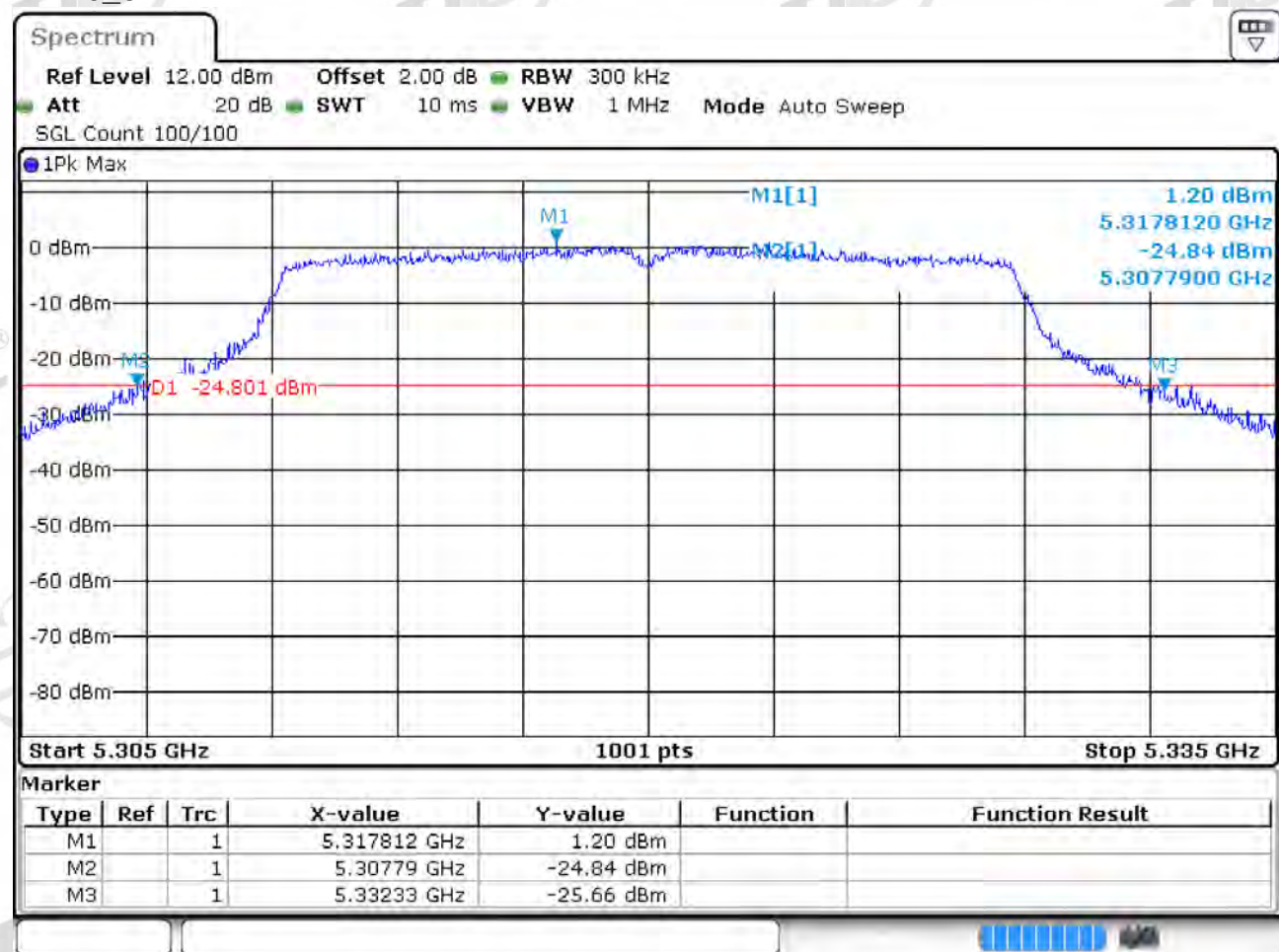
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11N20_52 ANT 2



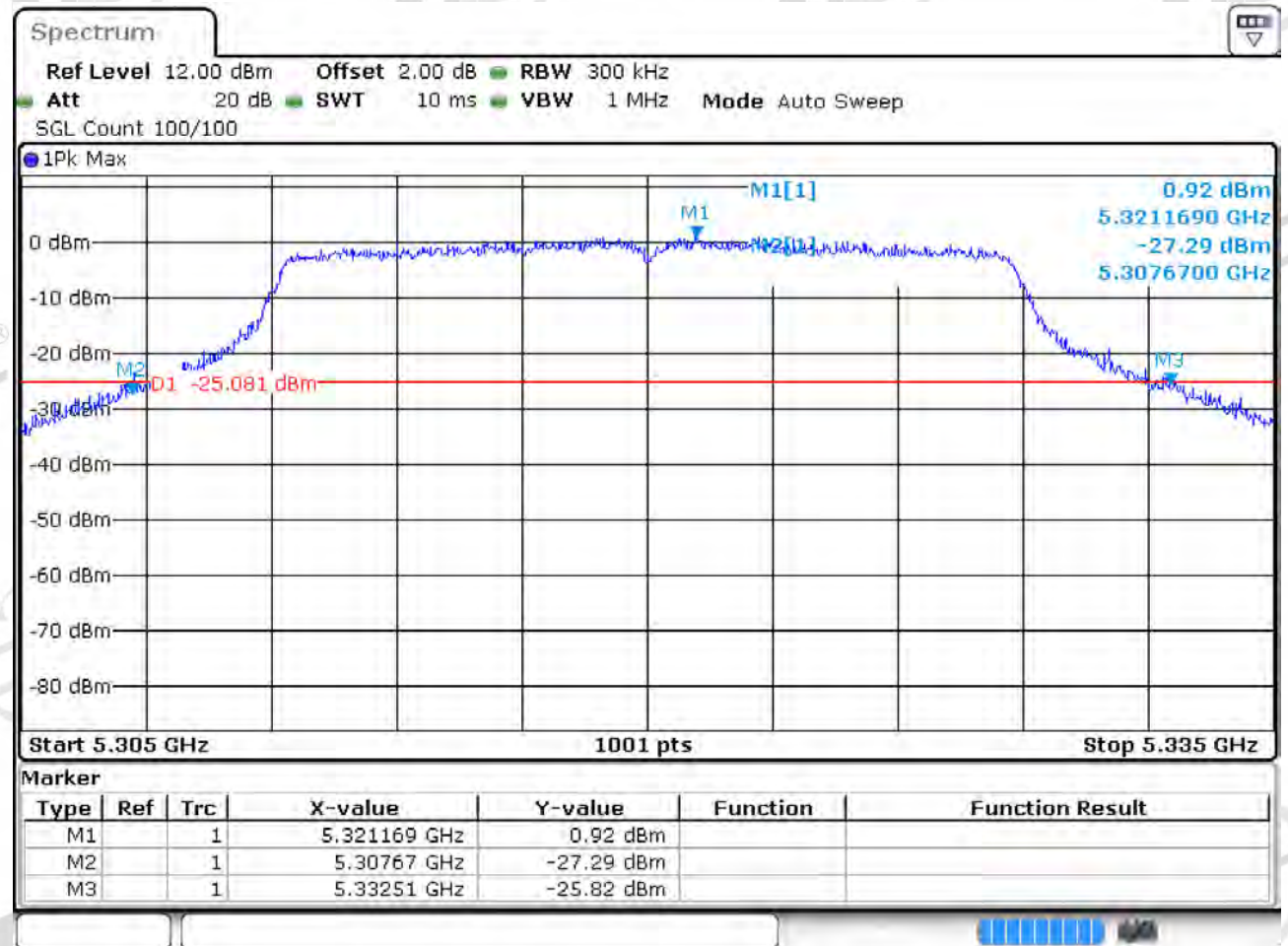
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11N20_64 ANT 1



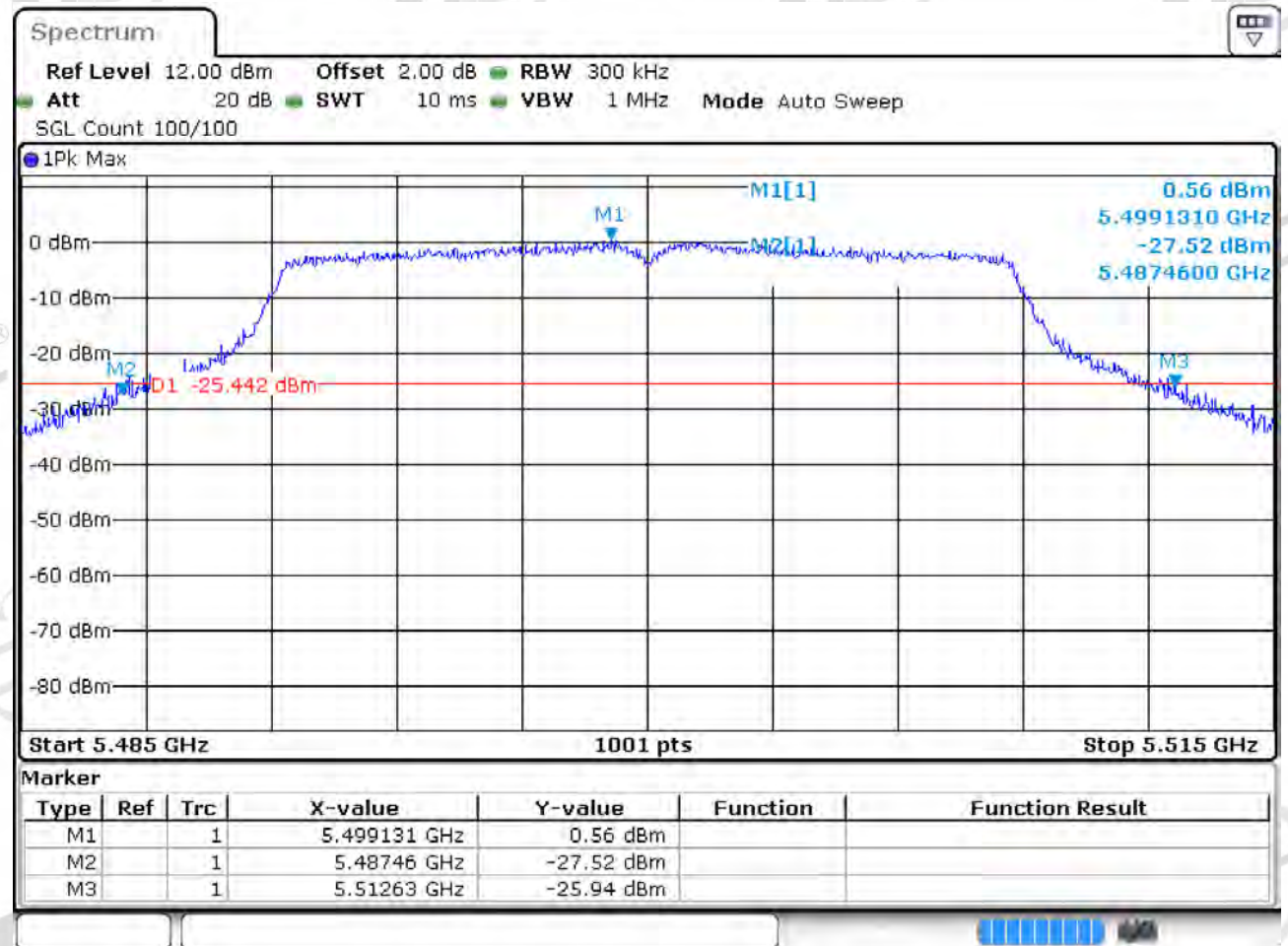
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11N20_64 ANT 2



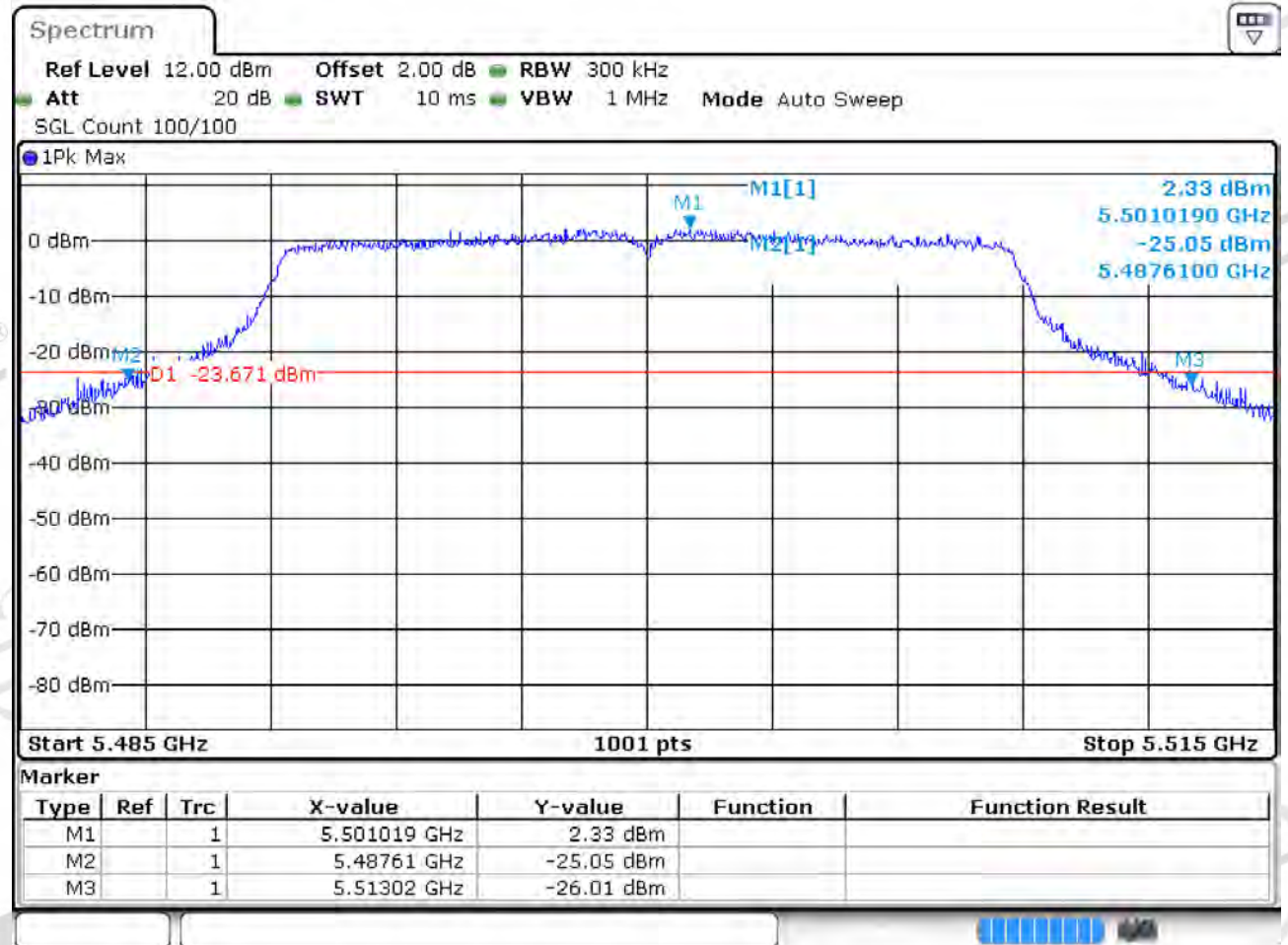
Date: 29 JUL 2019 22:34:43

11N20_100 ANT 1



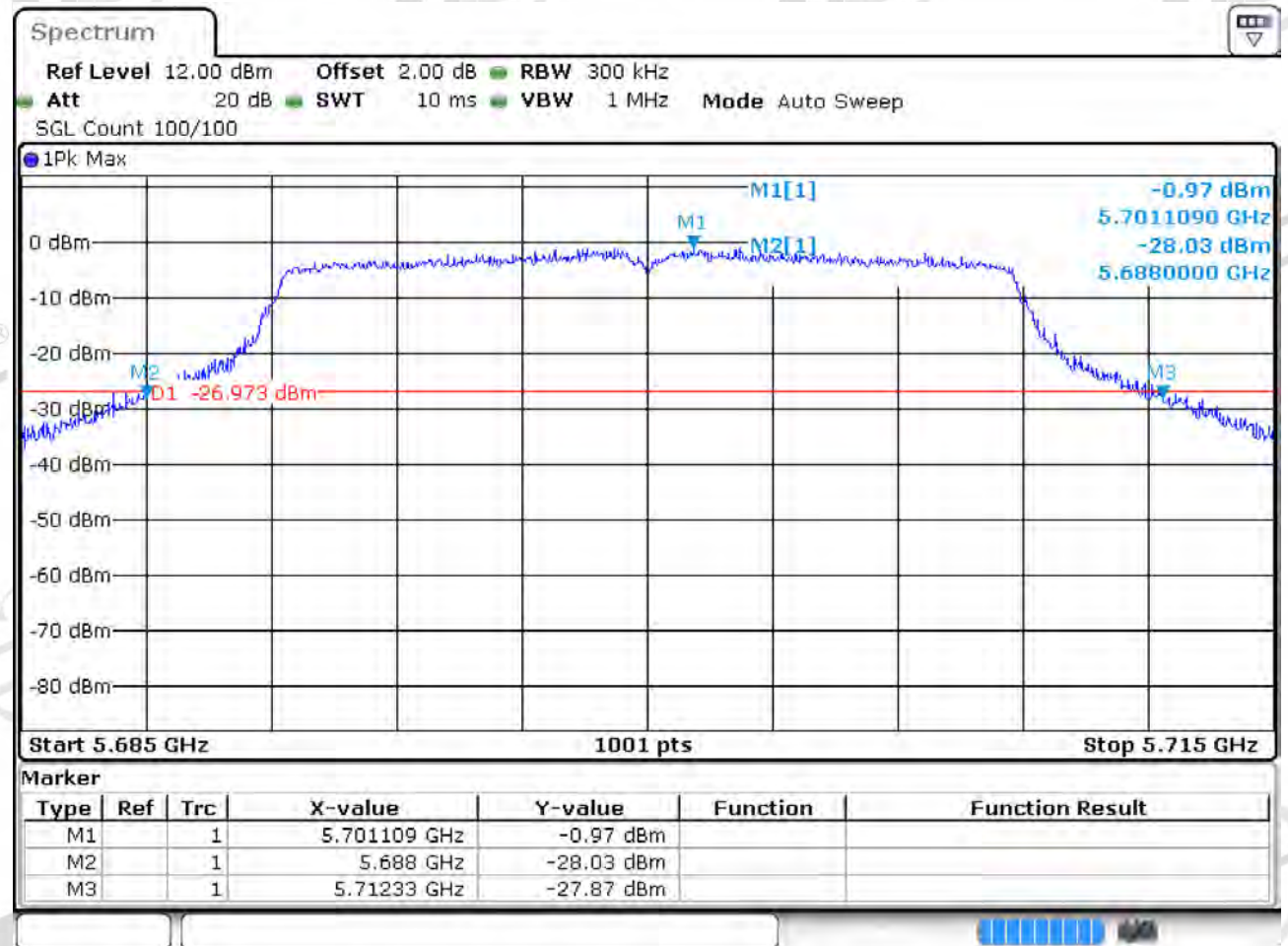
Date: 30 JUL 2019 00:40:23

11N20_100 ANT 2



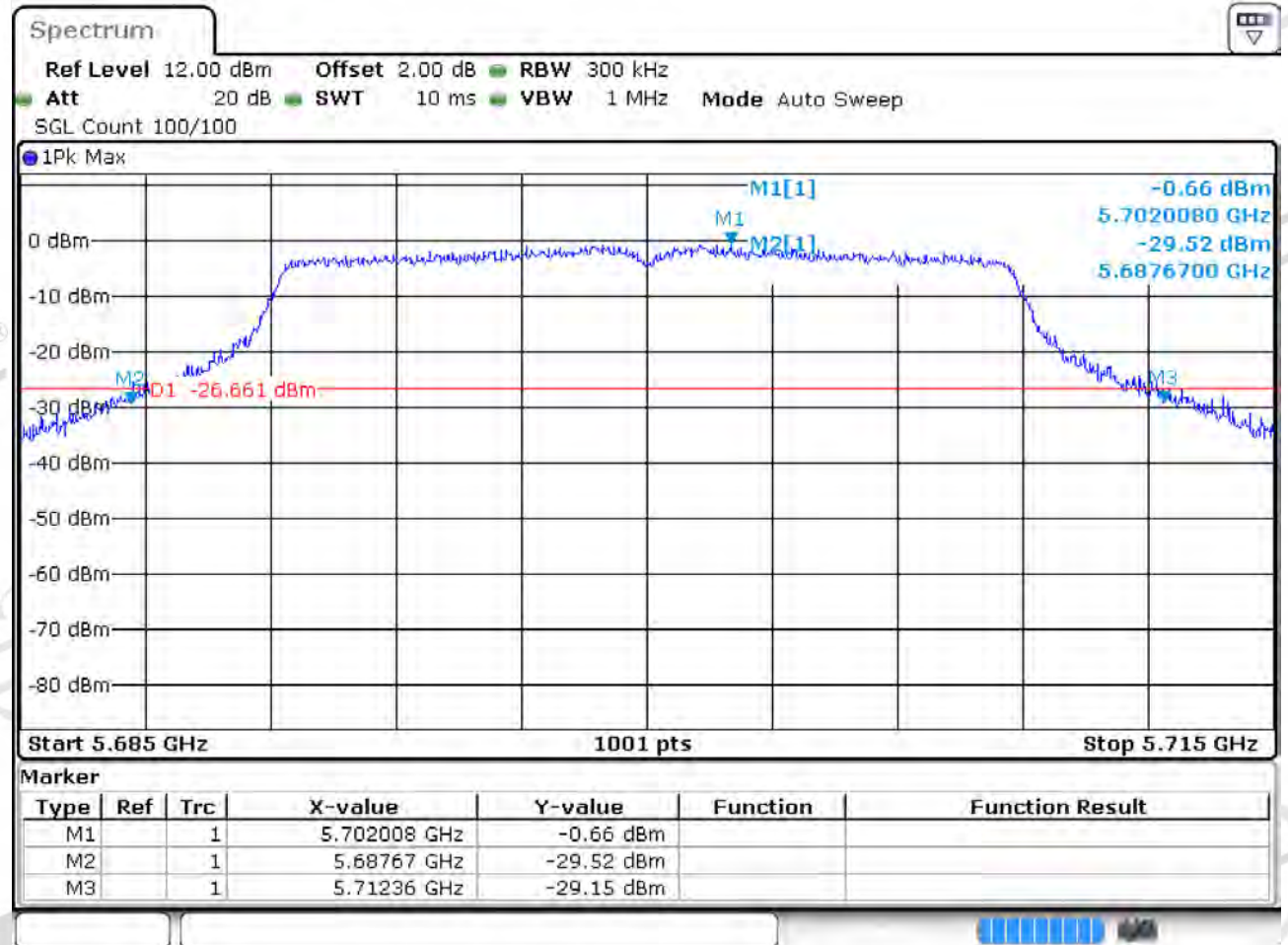
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11N20_140 ANT 1



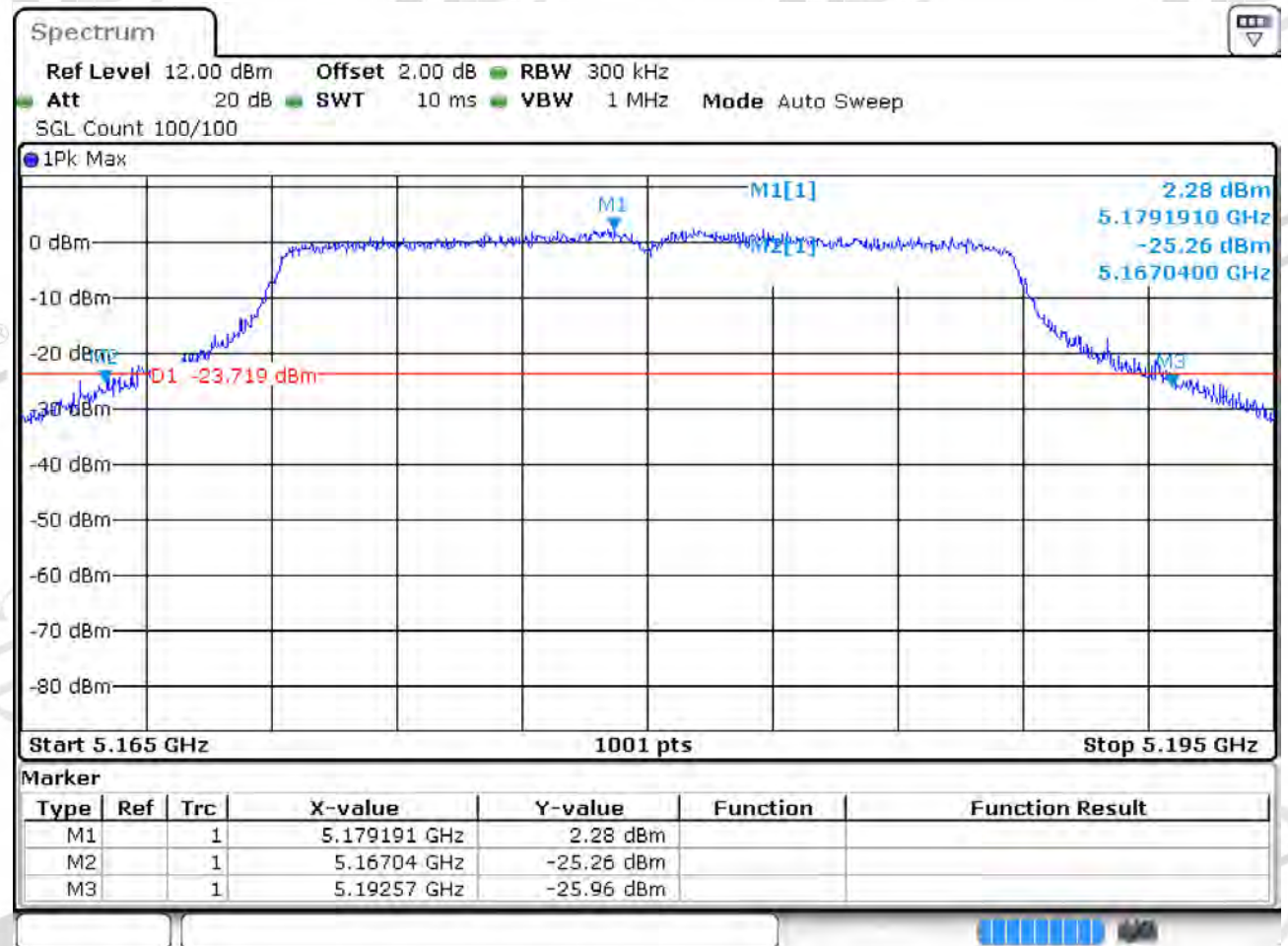
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11N20_140 ANT 2



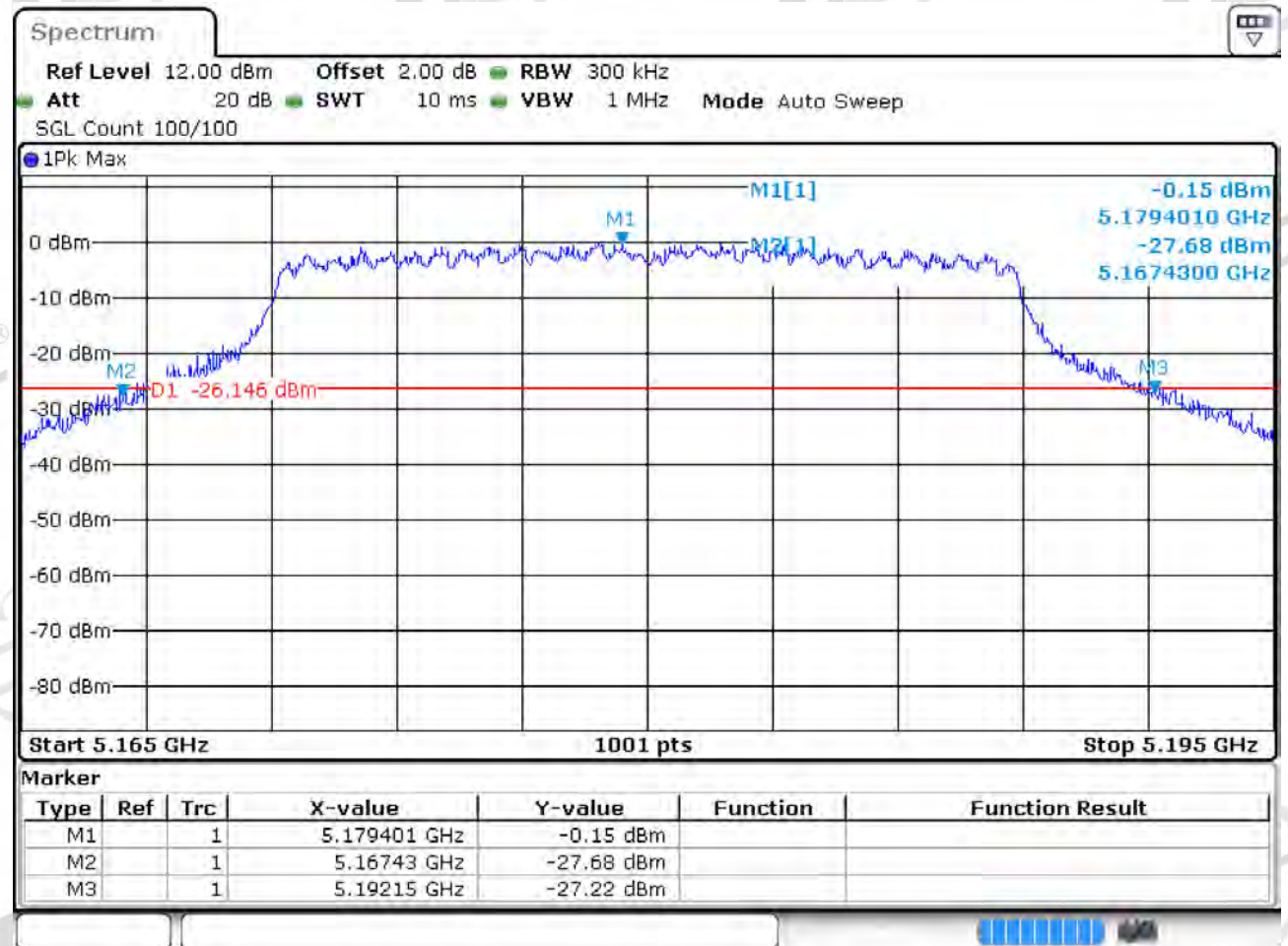
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11N20MIMO_36 ANT 1



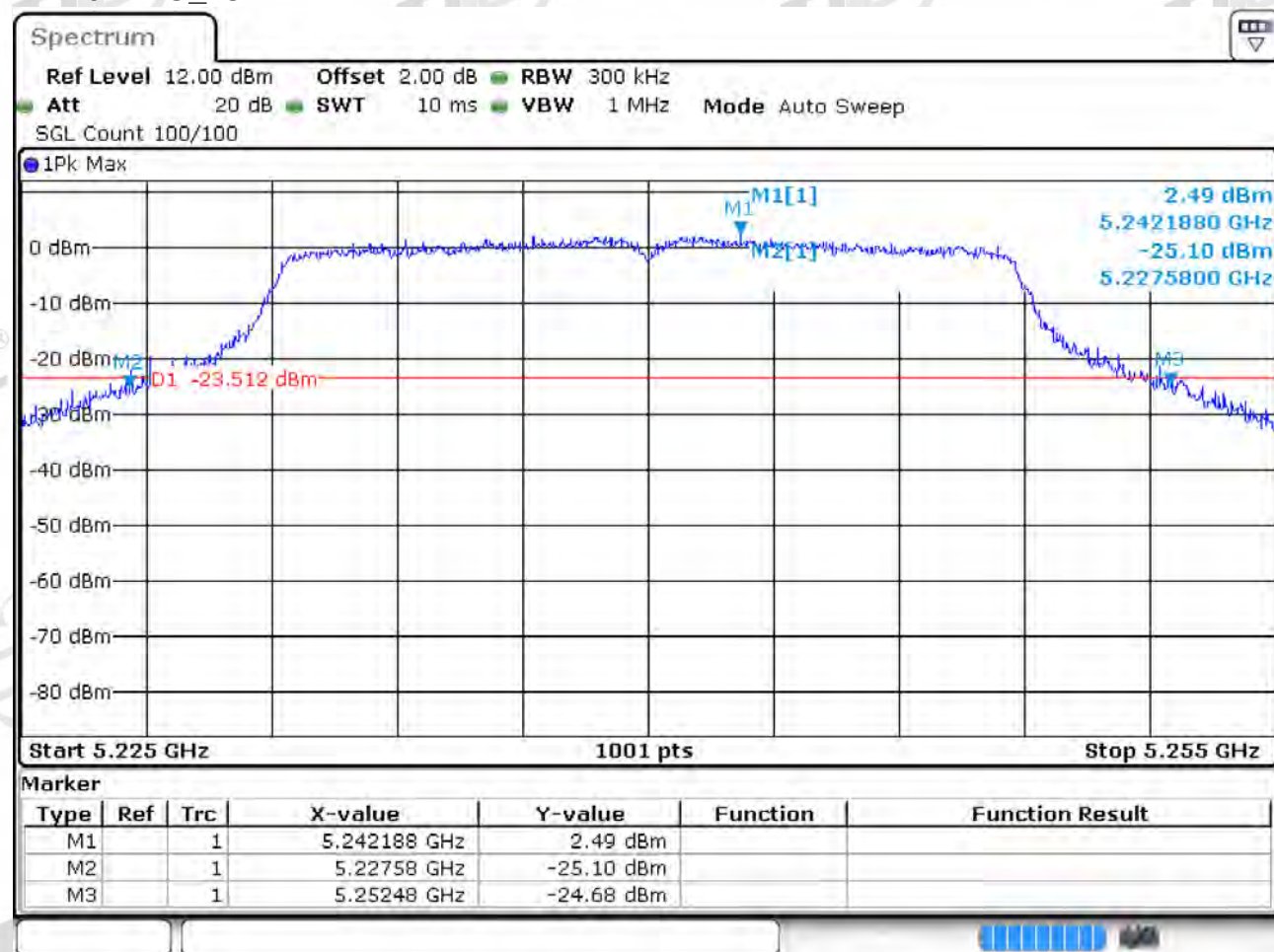
Date: 30 JUL 2019 05:47:55

11N20MIMO_36 ANT 2



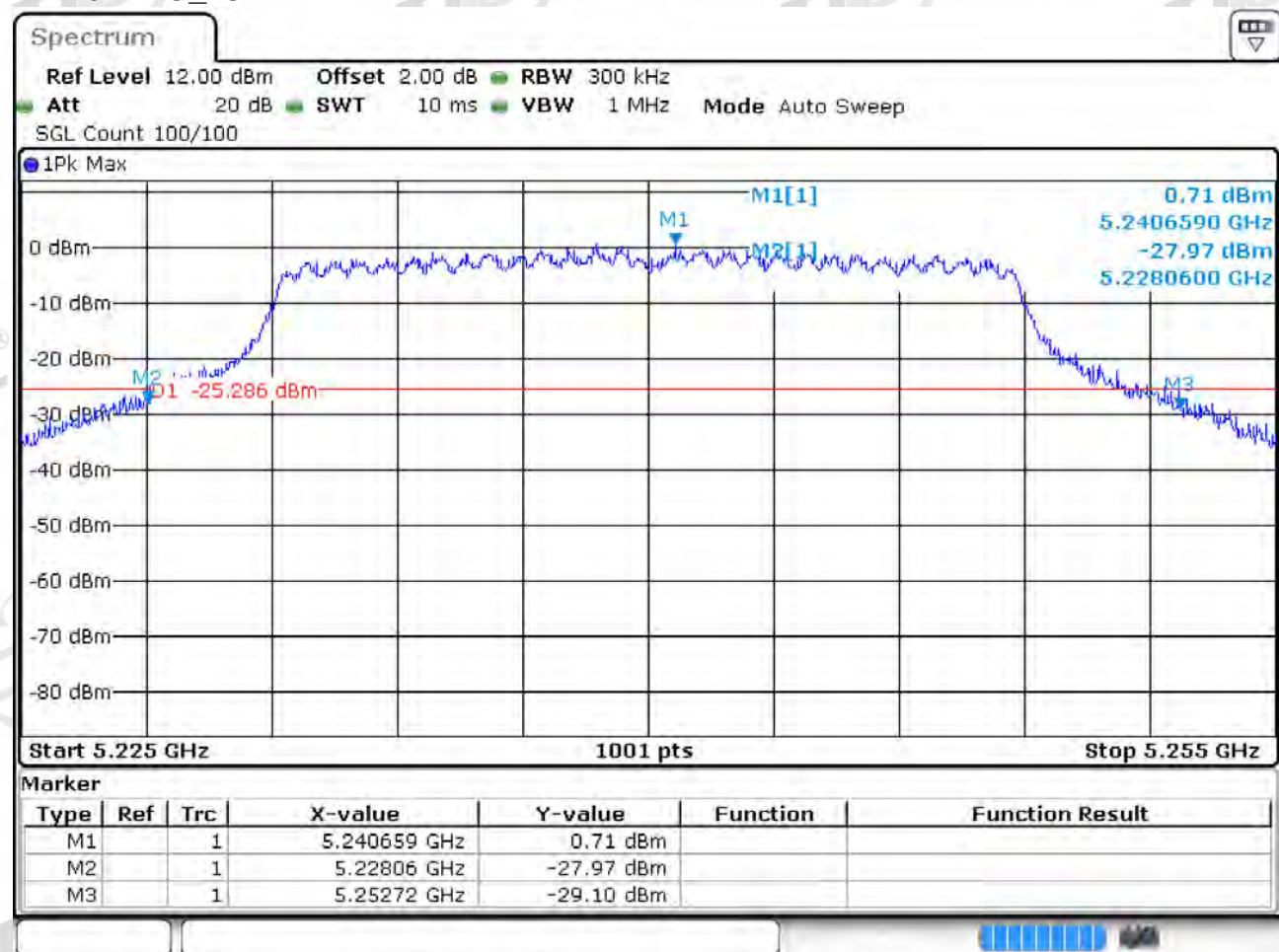
Date: 30 JUL 2019 06:04:25

11N20MIMO_48 ANT 1



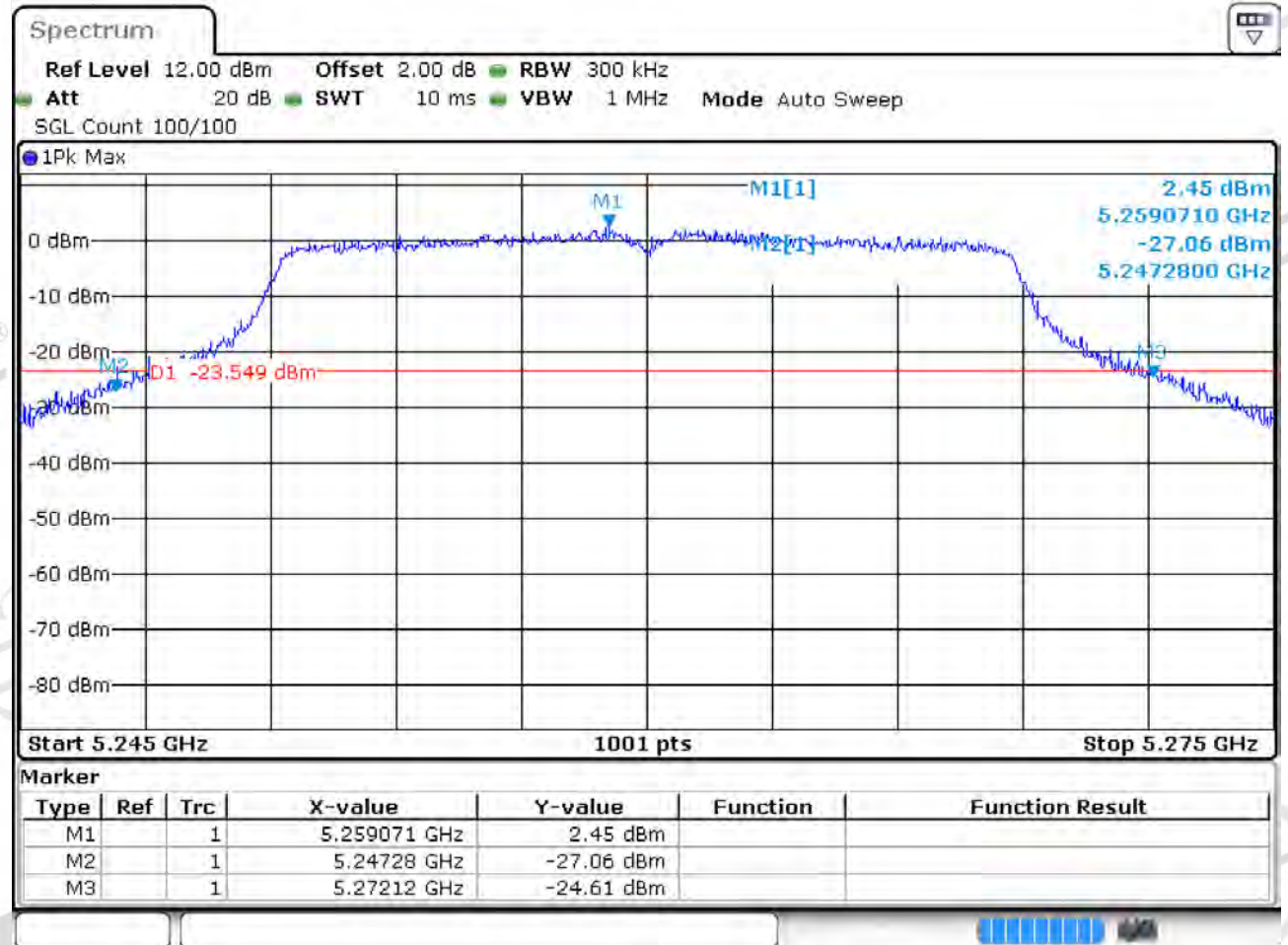
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11N20MIMO_48 ANT 2



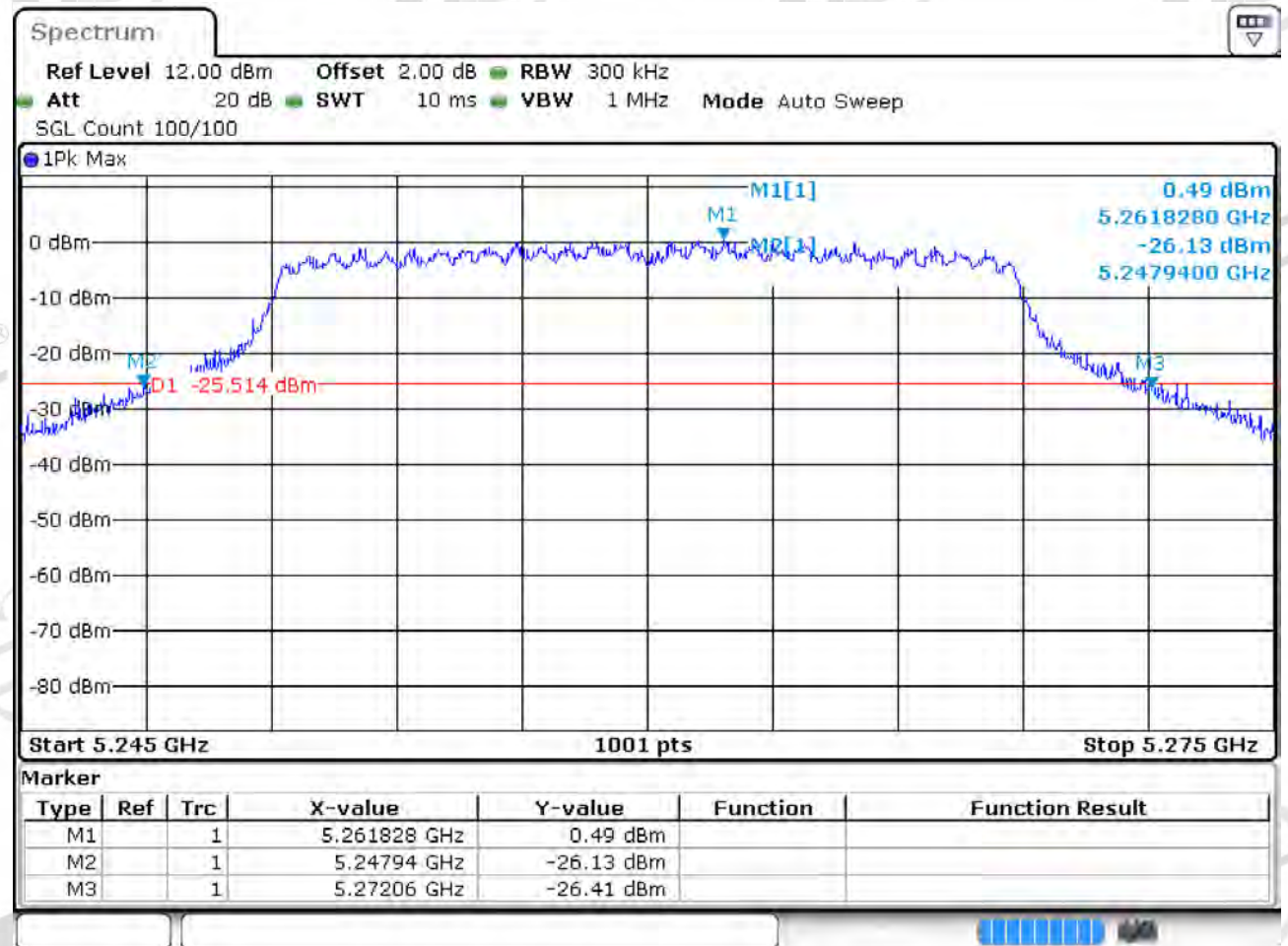
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11N20MIMO_52 ANT 1



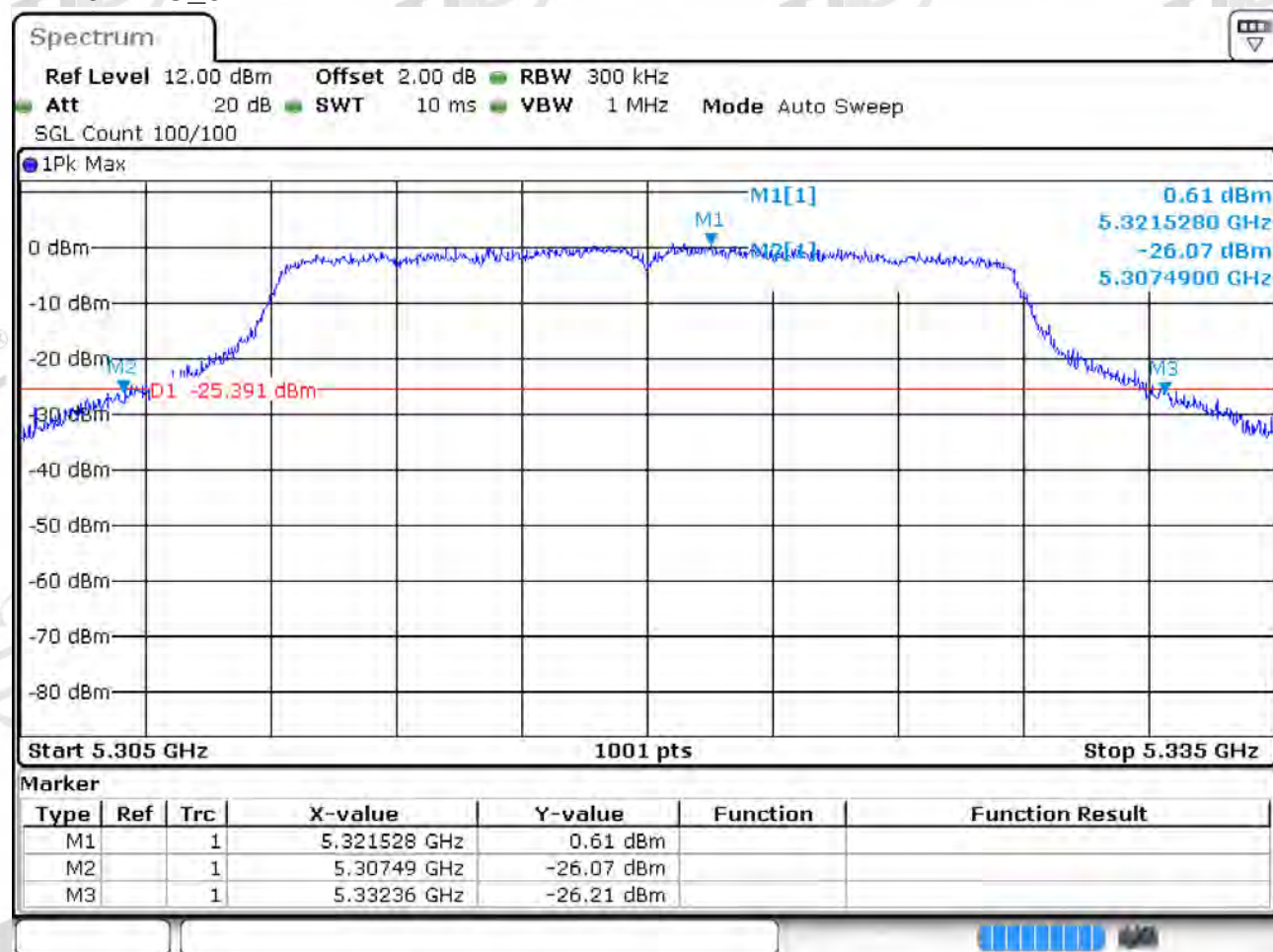
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11N20MIMO_52 ANT 2



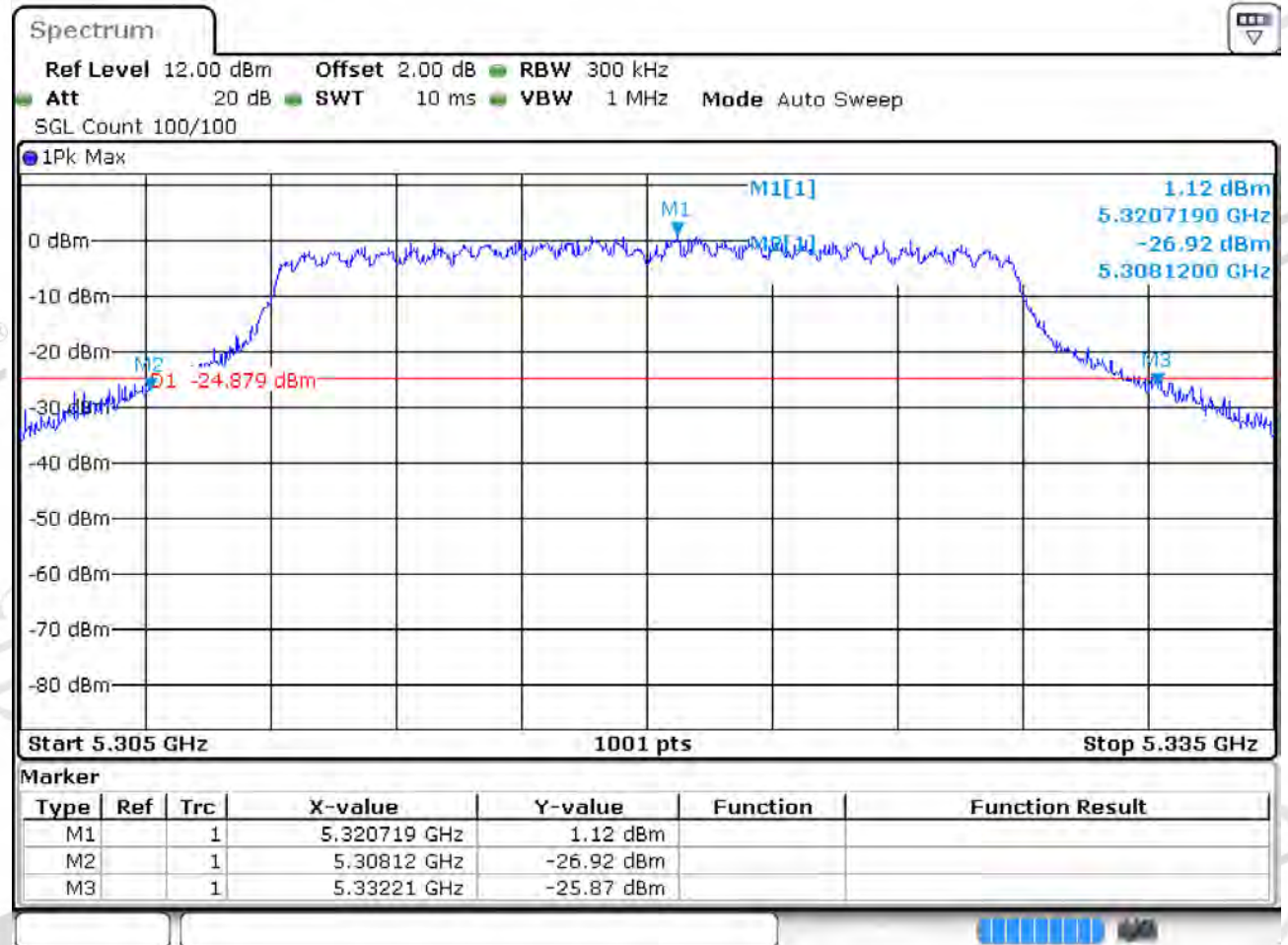
Date: 30 JUL 2019 06:08:10

11N20MIMO_64 ANT 1



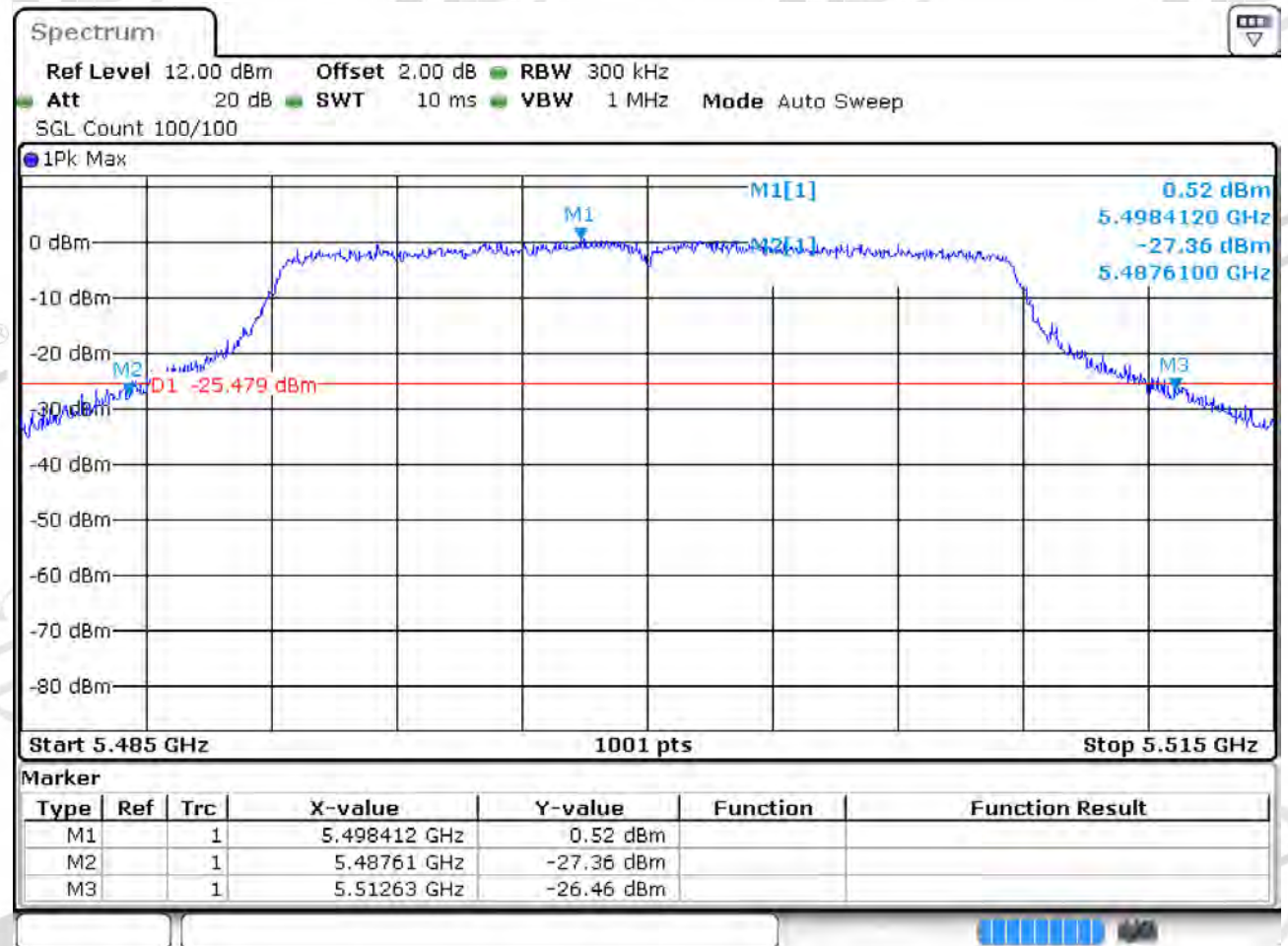
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11N20MIMO_64 ANT 2



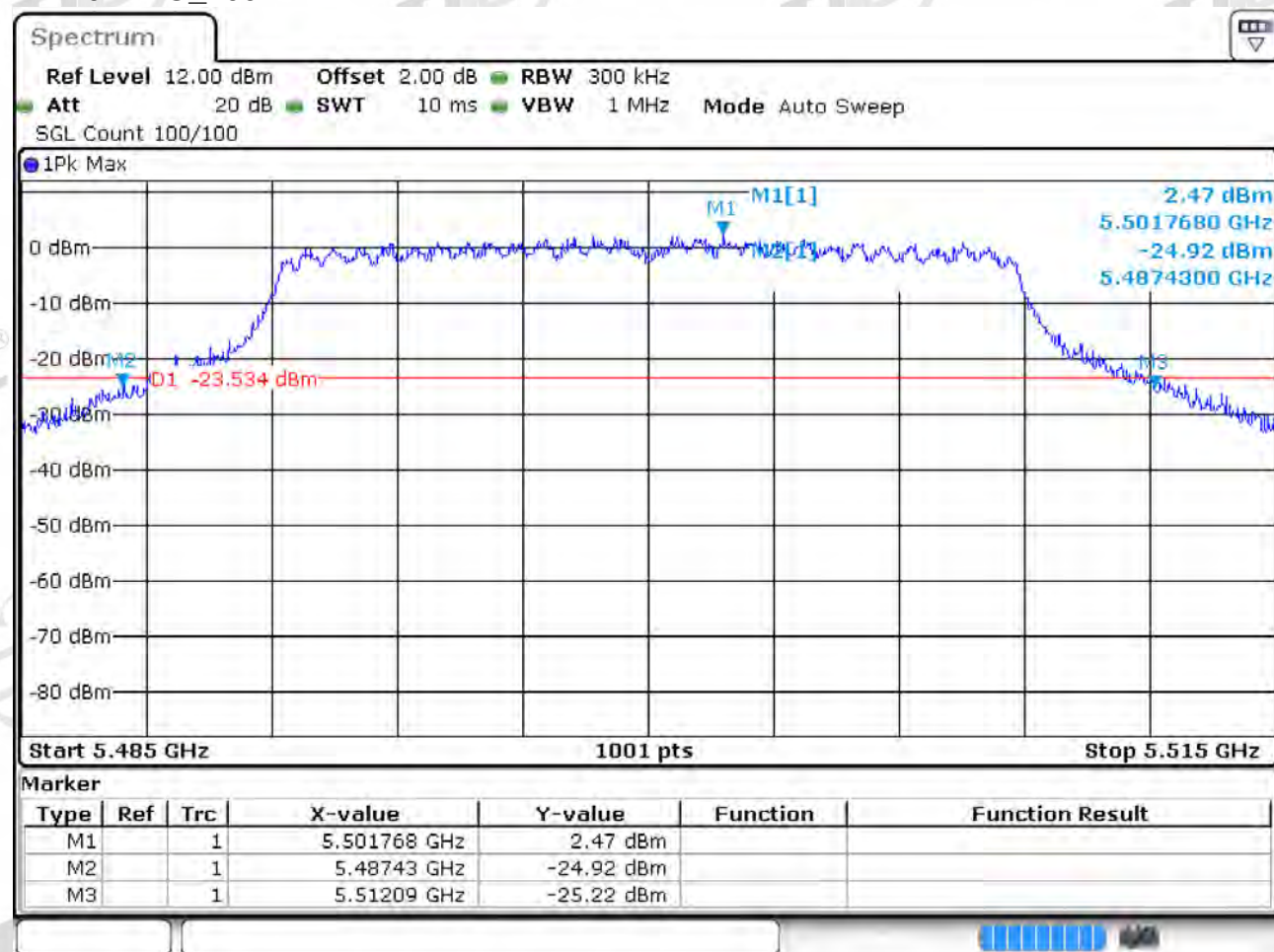
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11N20MIMO_100 ANT 1



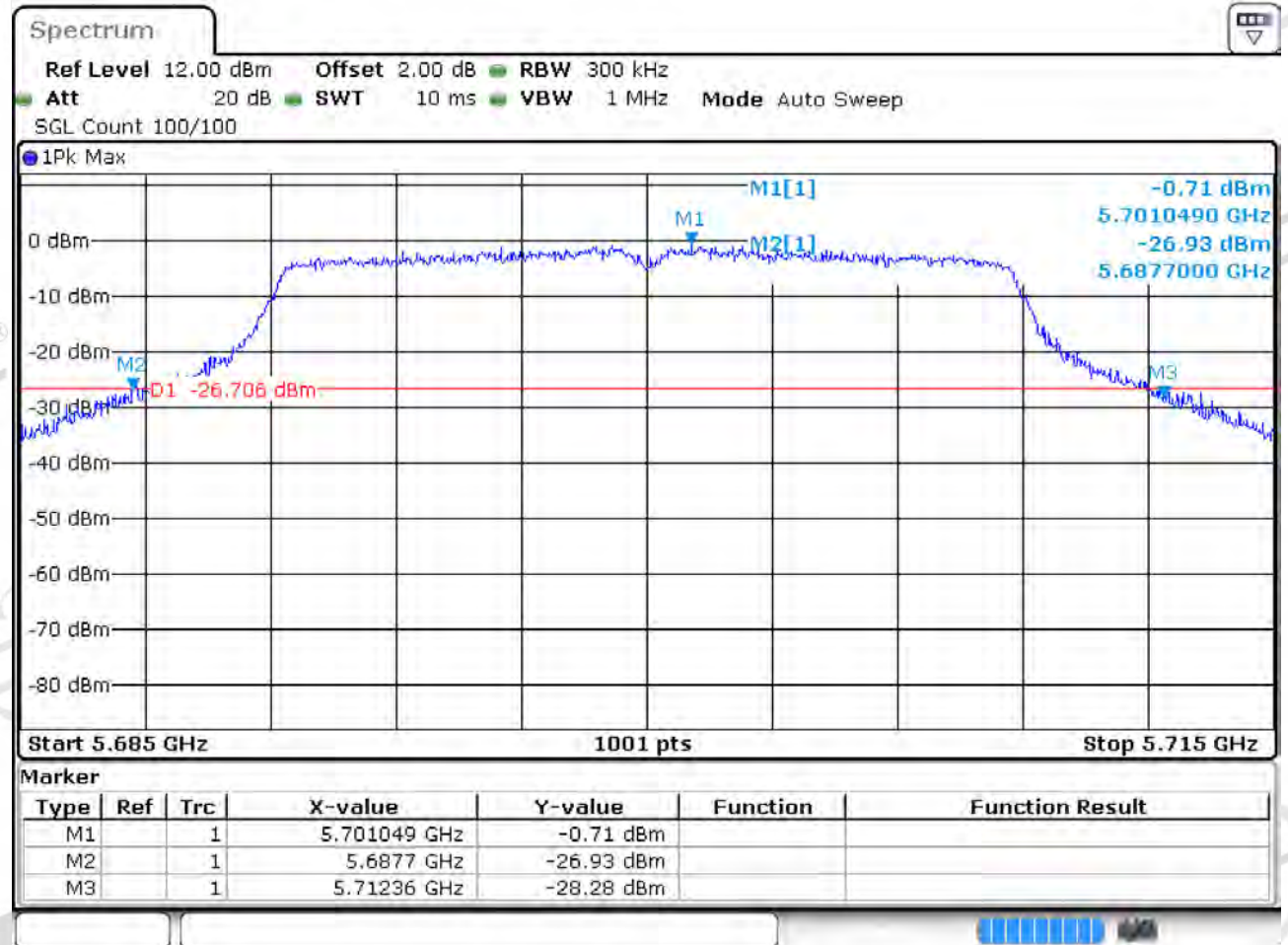
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11N20MIMO_100 ANT 2



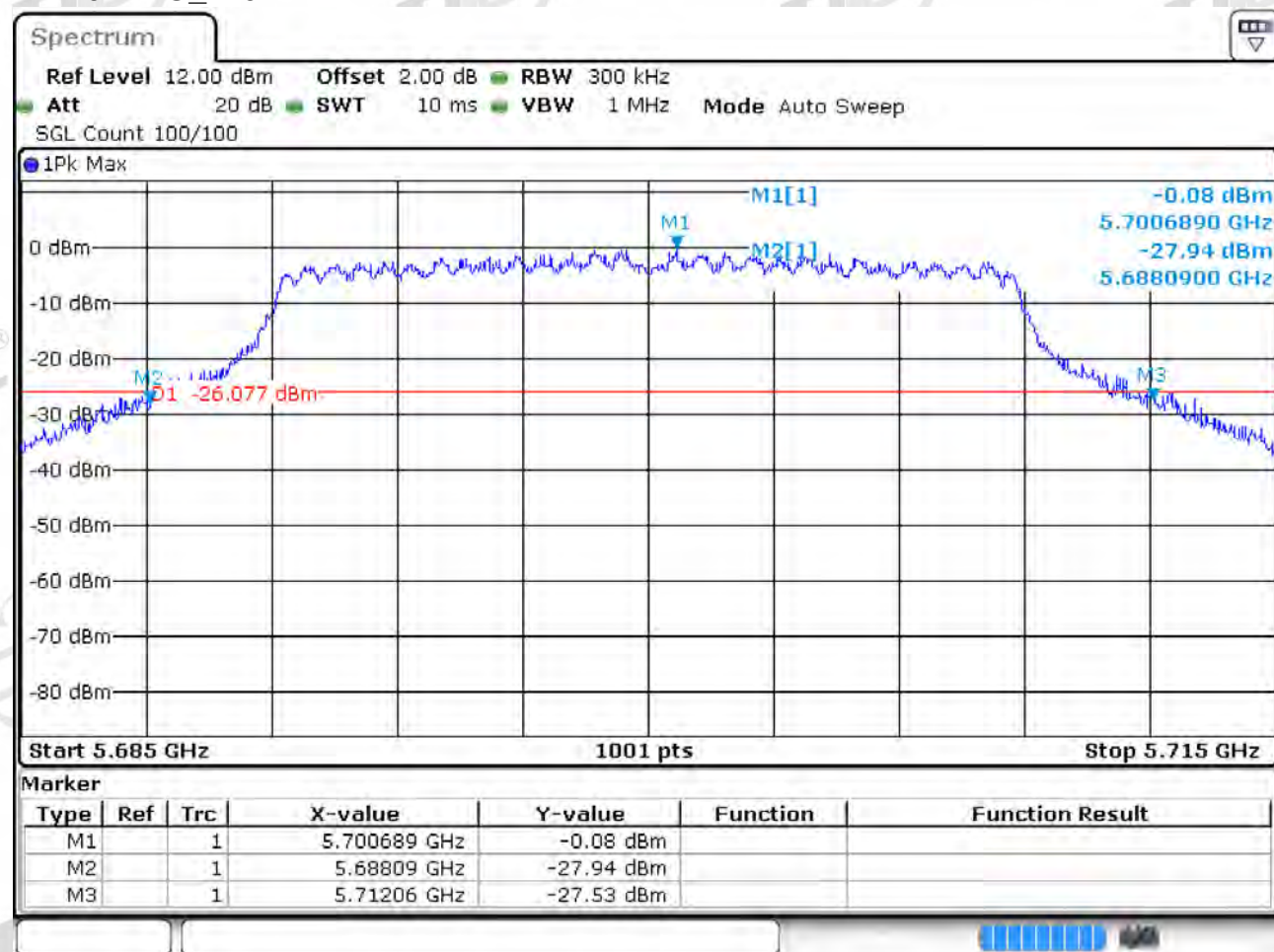
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11N20MIMO_140 ANT 1



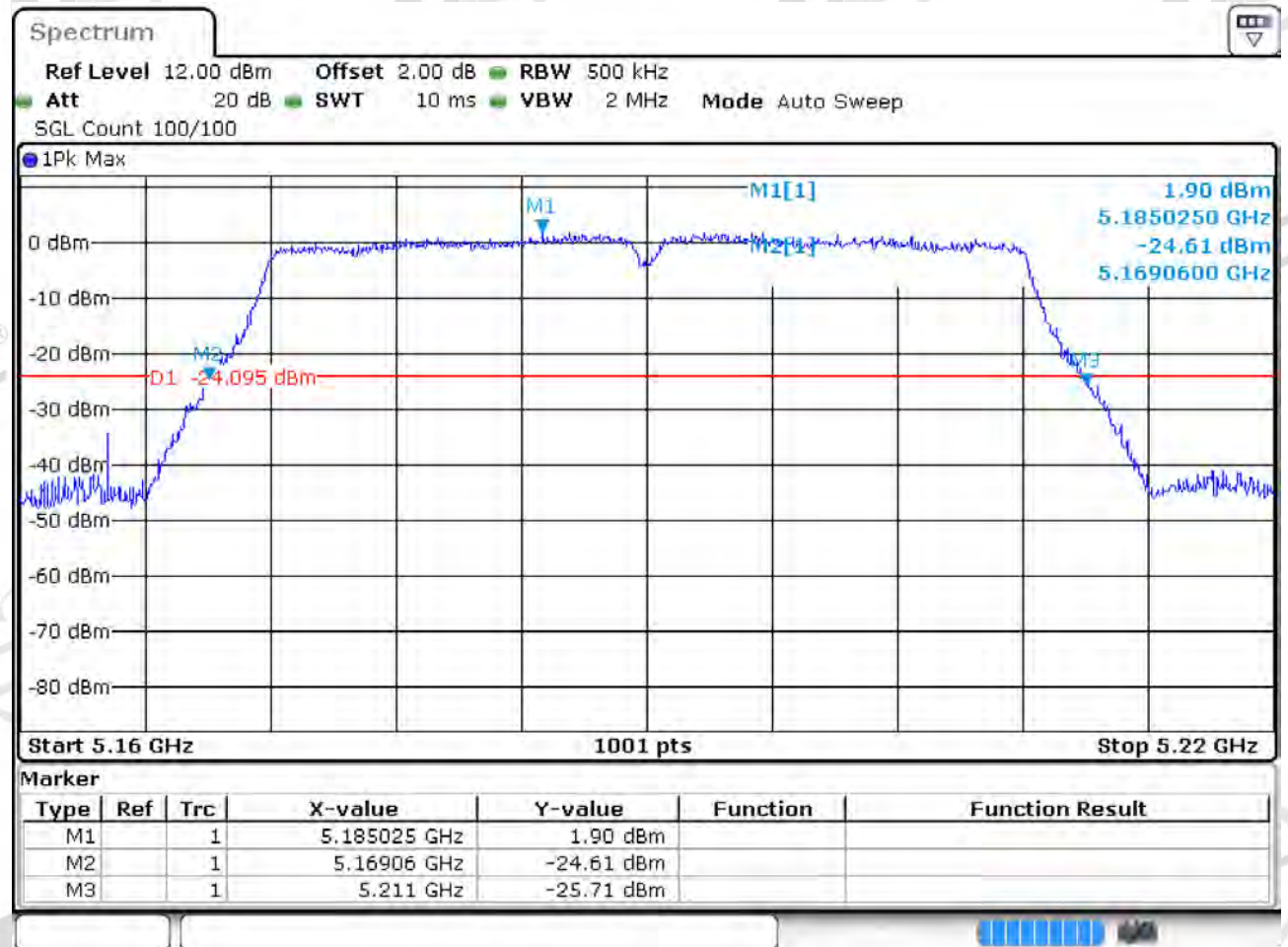
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11N20MIMO_140 ANT 2



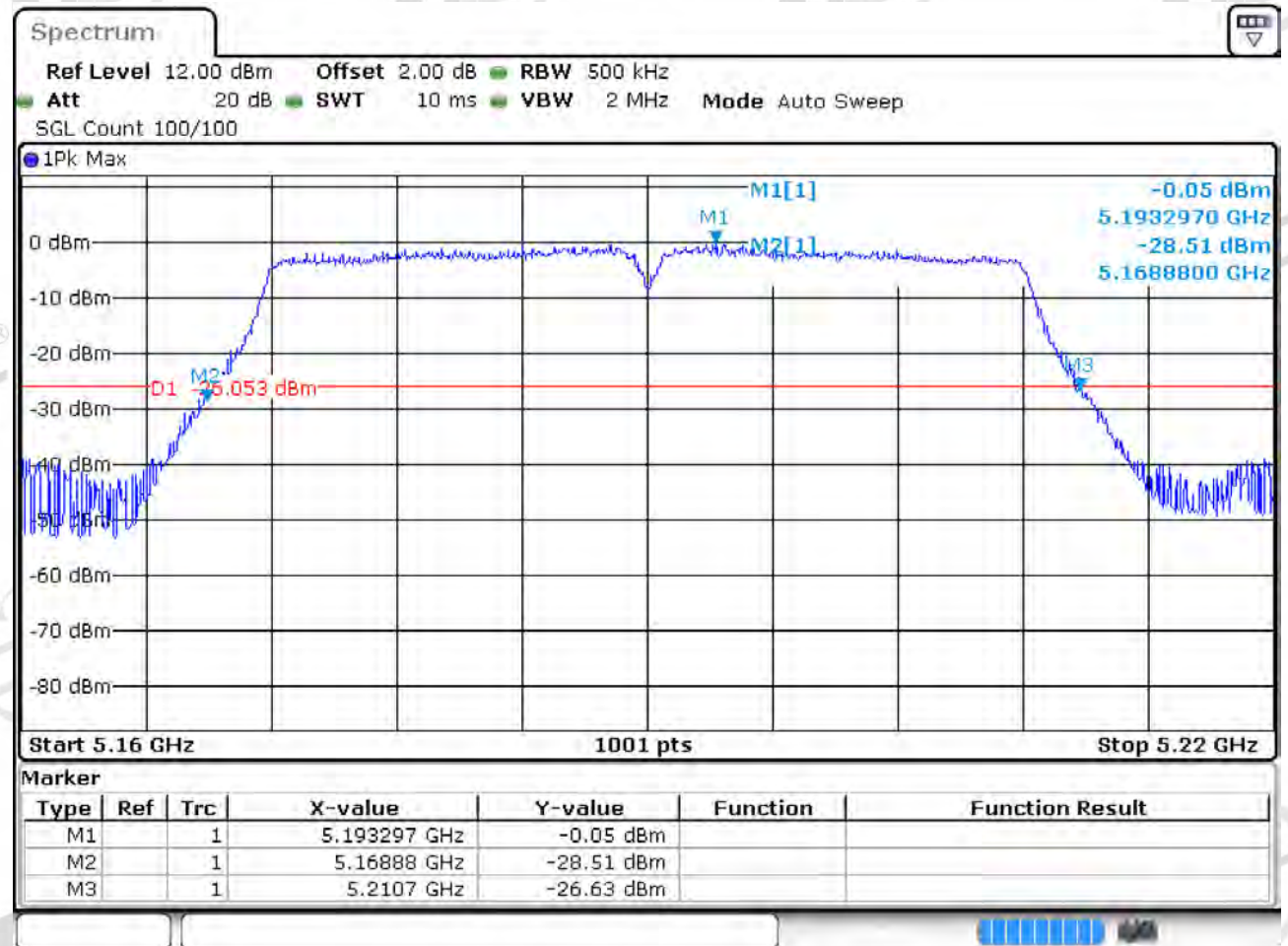
Date: 30 JUL 2019 06:14:26

11N40_38 ANT 1



Date: 30 JUL 2019 01:59:15

11N40_38 ANT 2



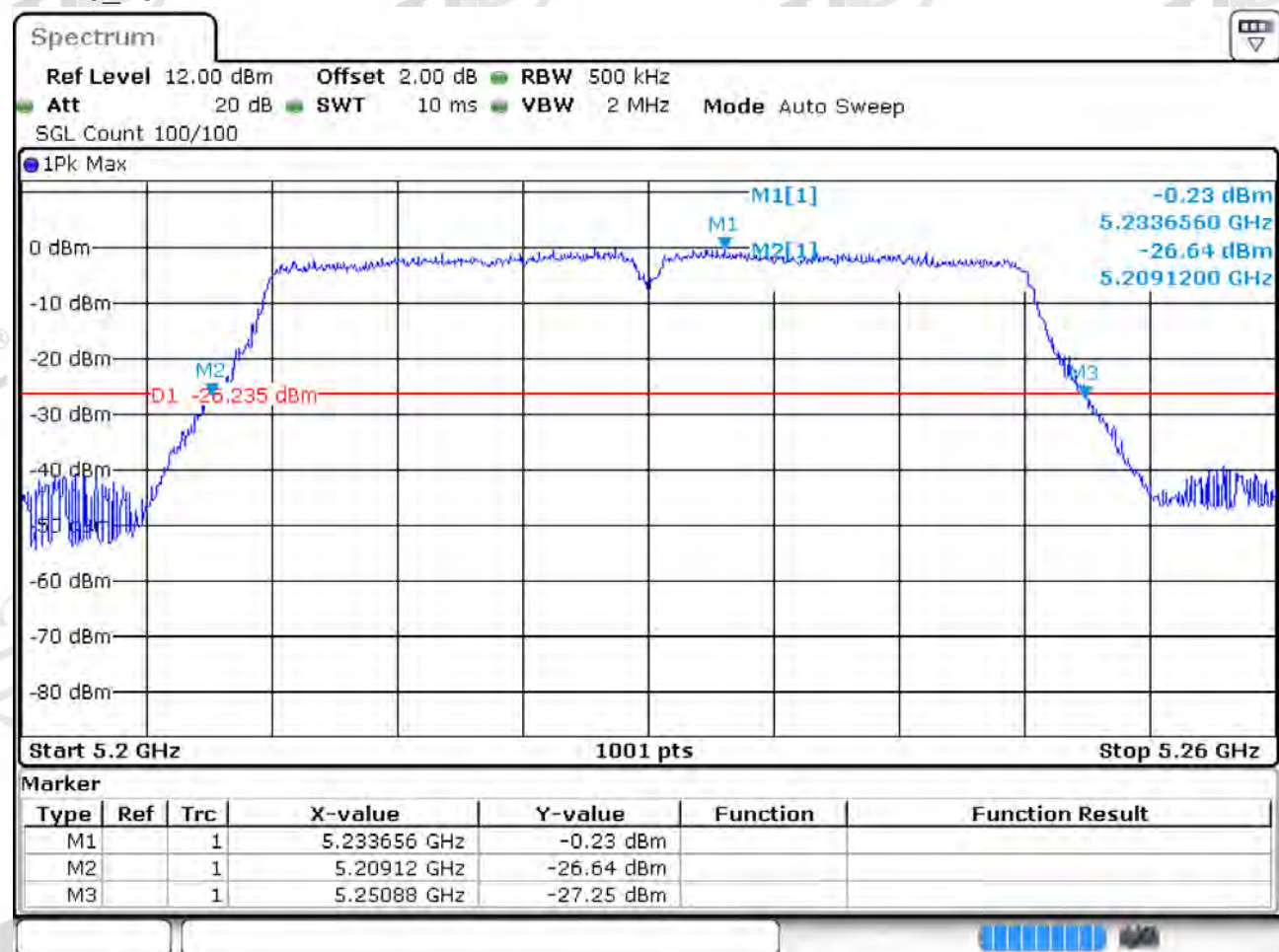
Date: 31.JUL.2019 01:52:31

11N40_46 ANT 1



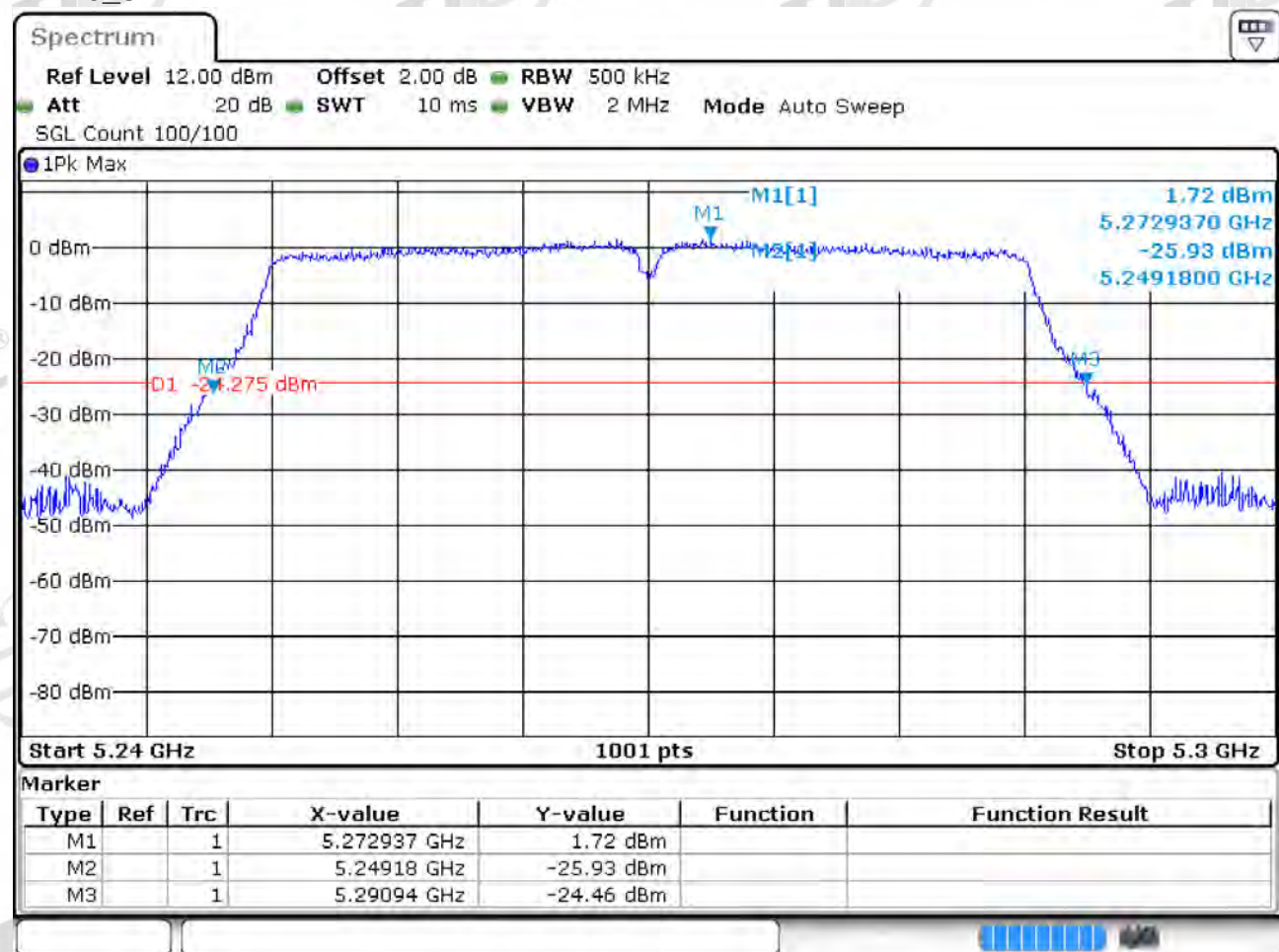
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11N40_46 ANT 2



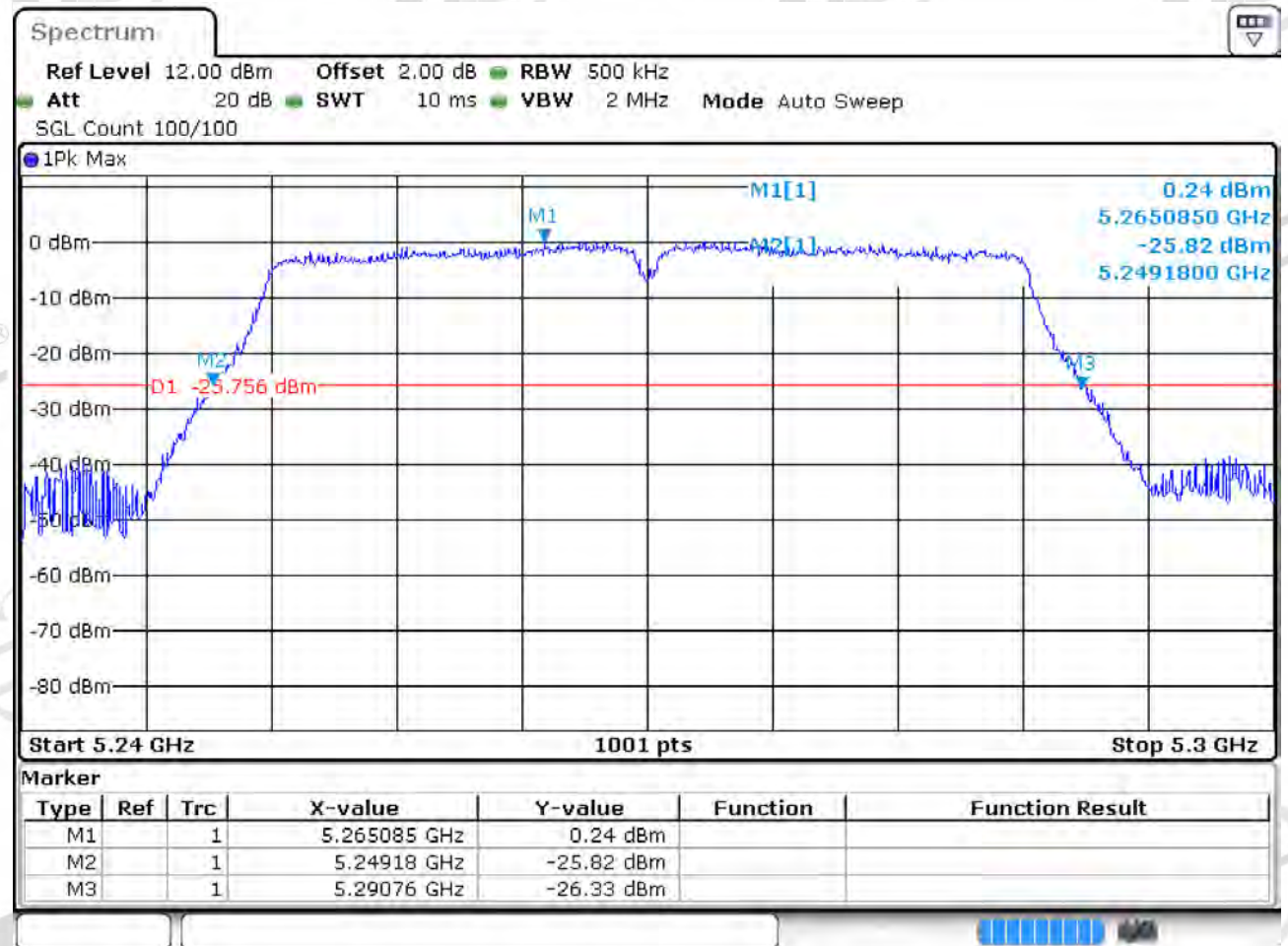
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11N40_54 ANT 1



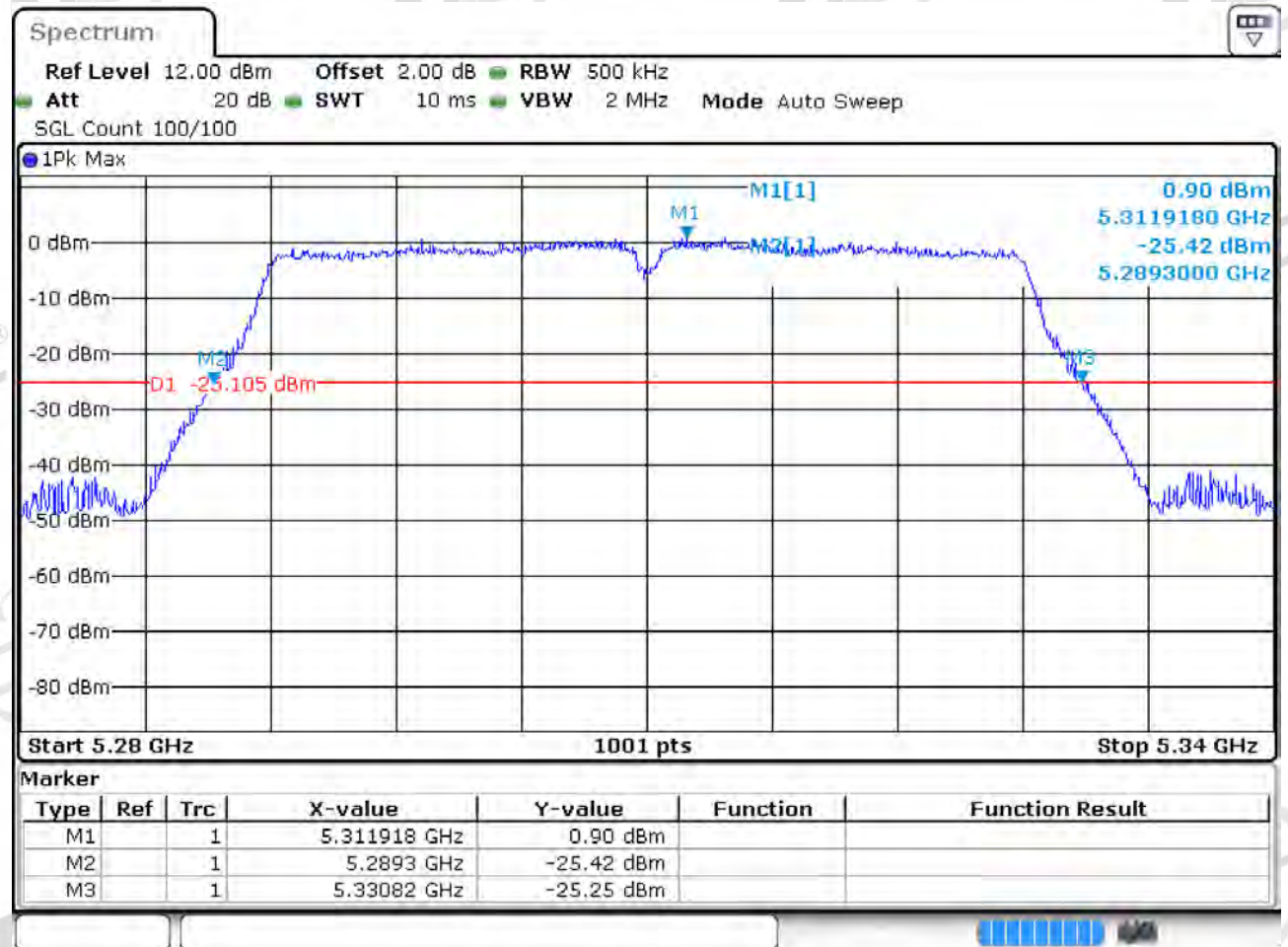
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11N40_54 ANT 2



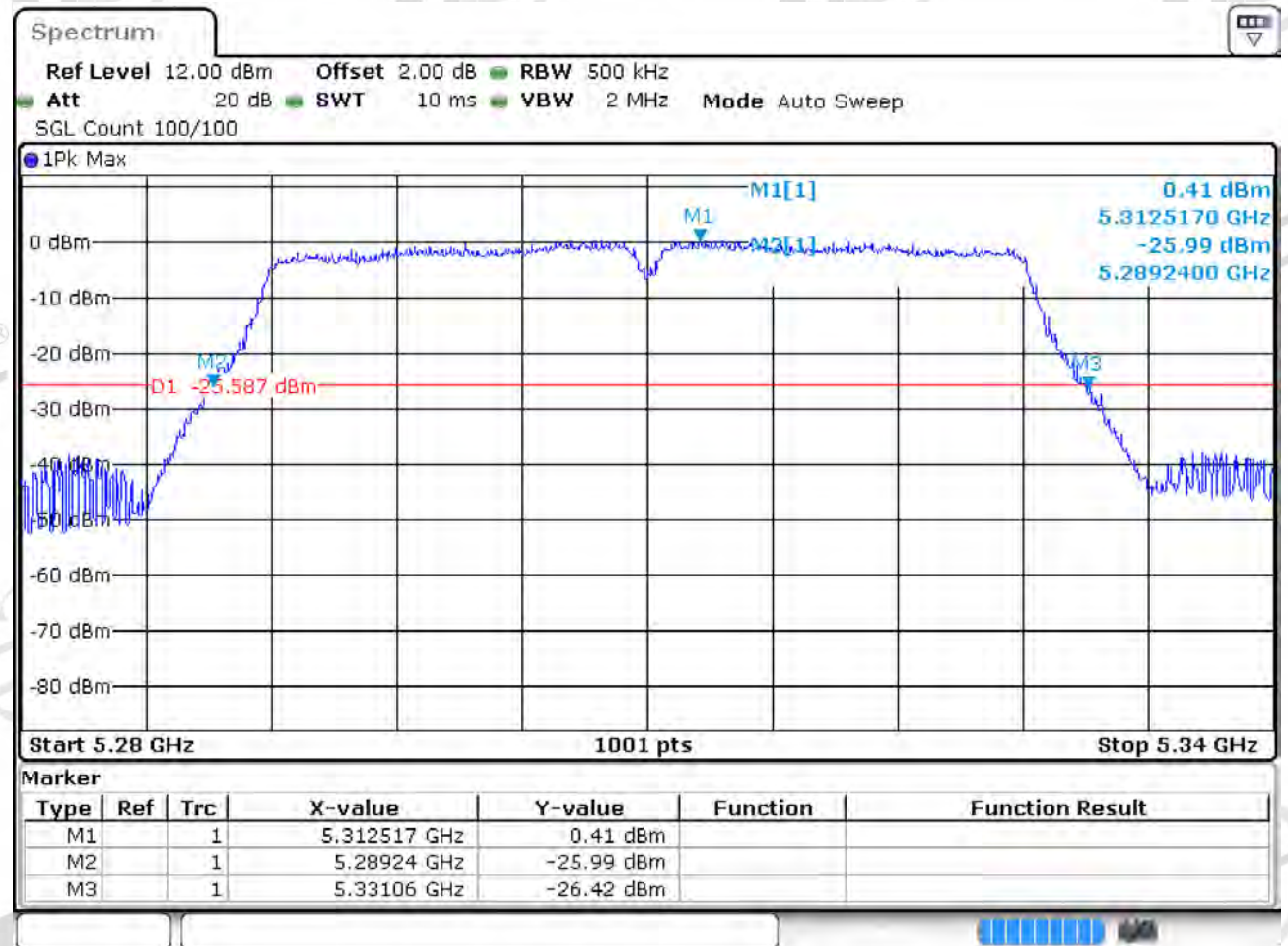
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11N40_62 ANT 1



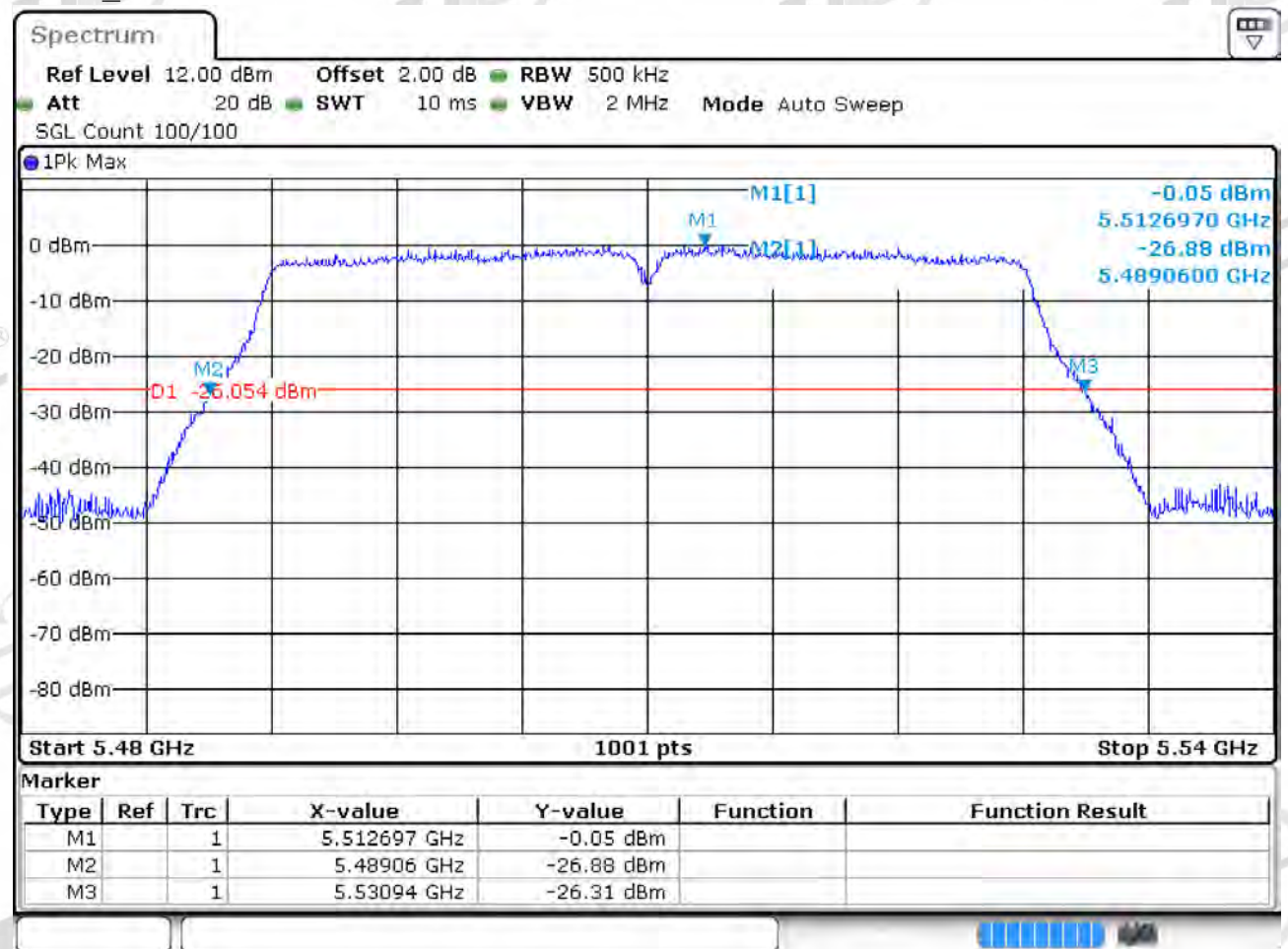
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11N40_62 ANT 2



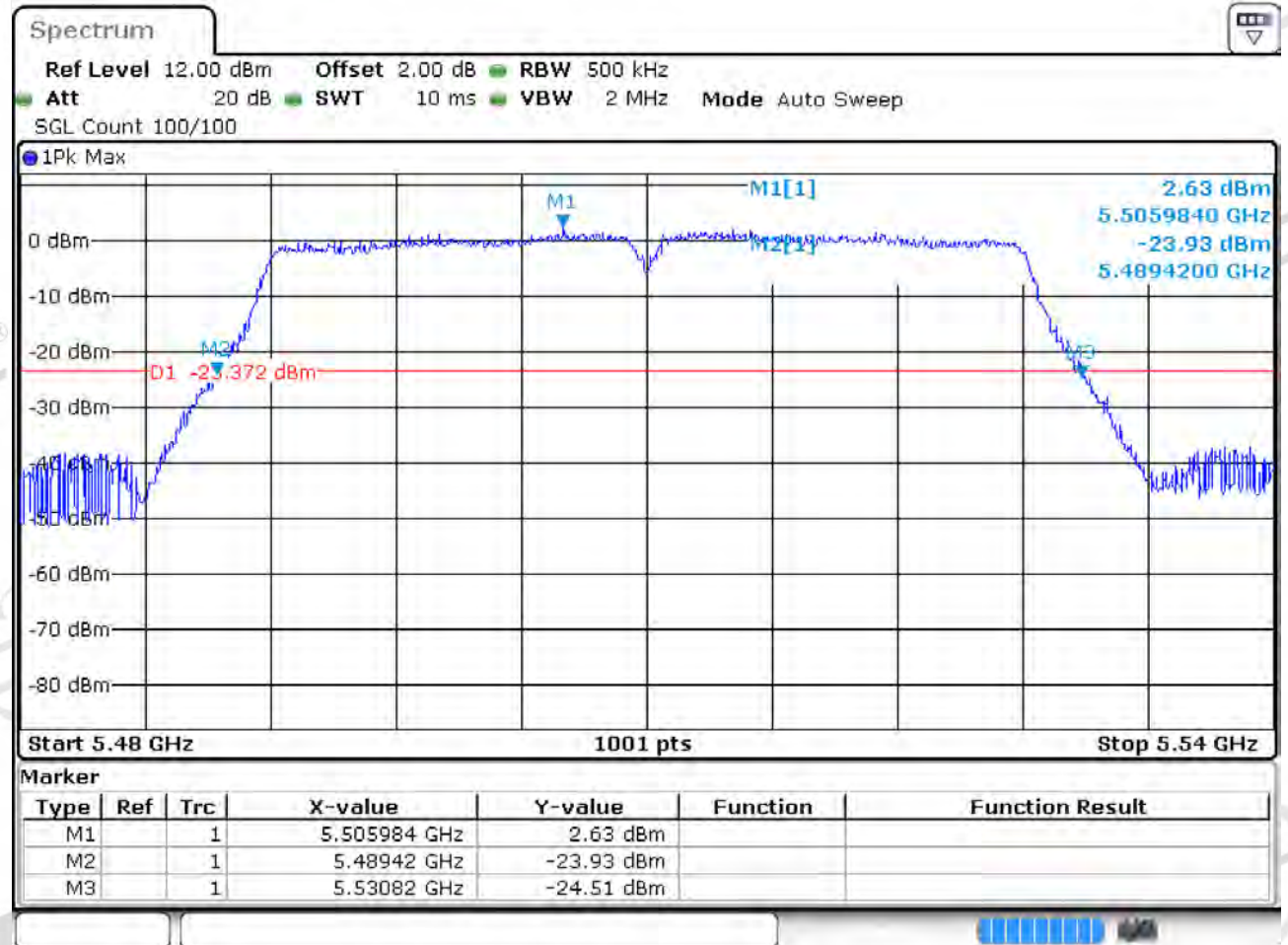
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11N40_102 ANT 1



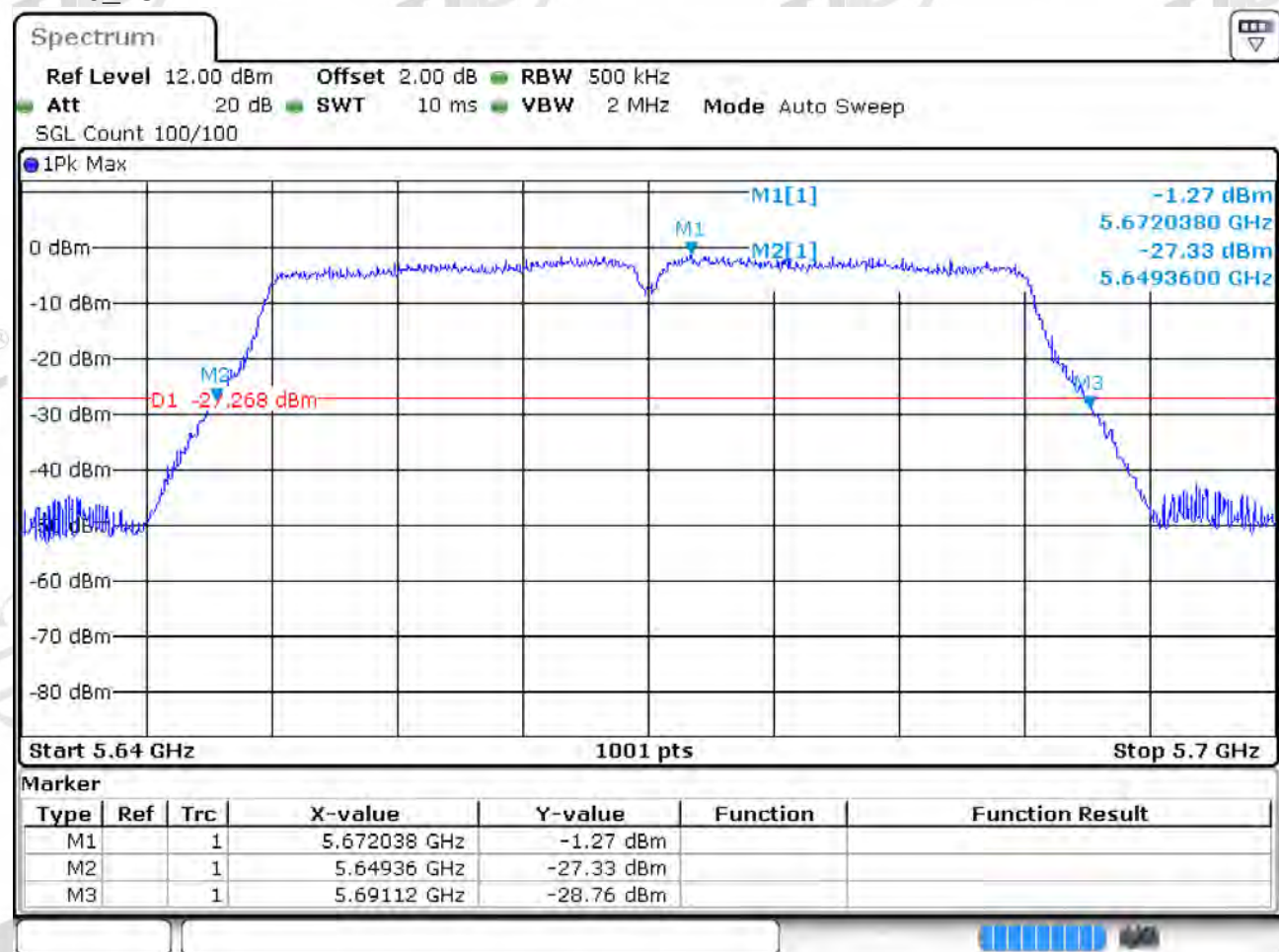
Date: 30 JUL 2019 02:06:31

11N40_102 ANT 2



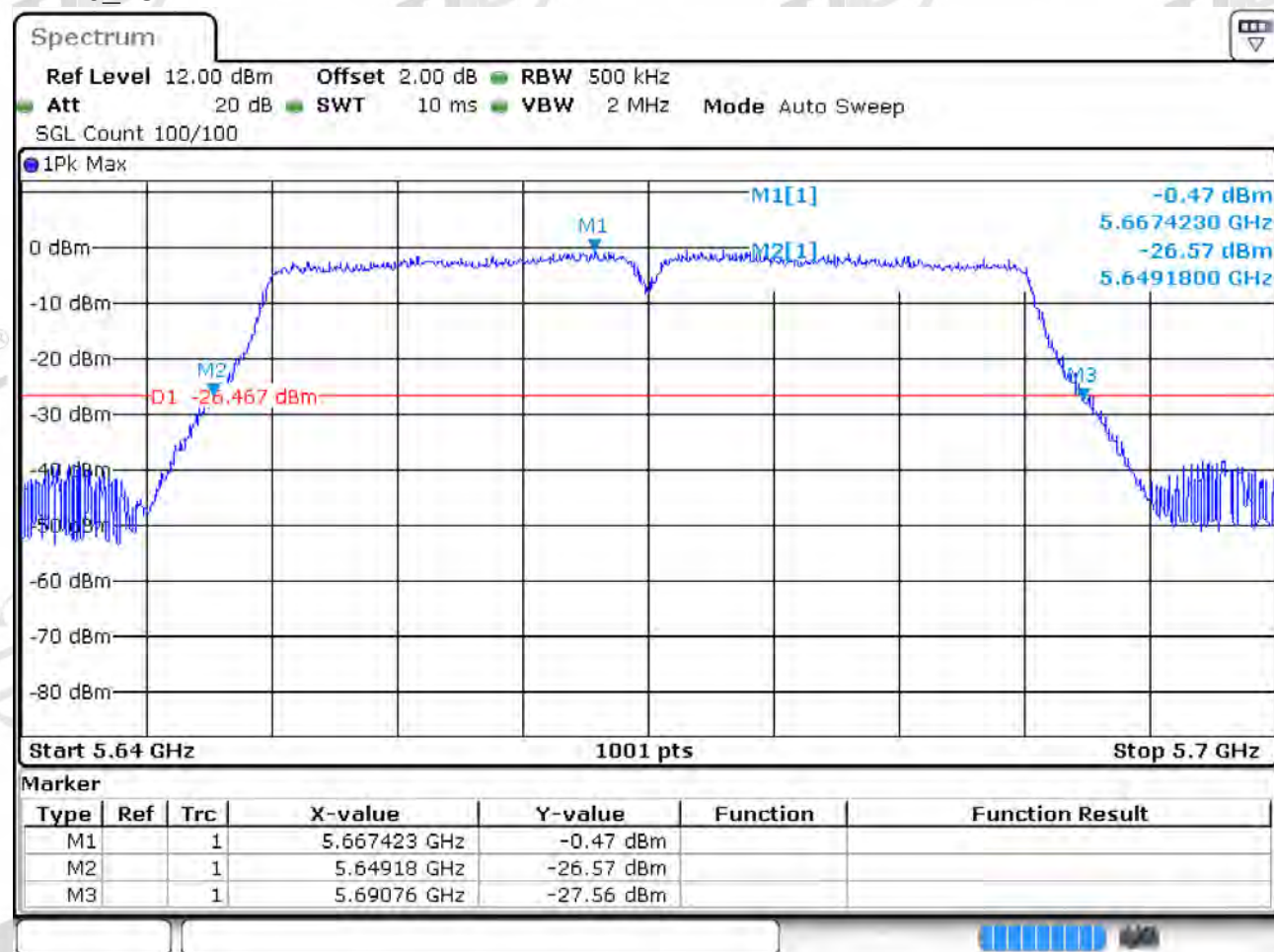
Date: 30 JUL 2019 01:48:14

11N40_134 ANT 1



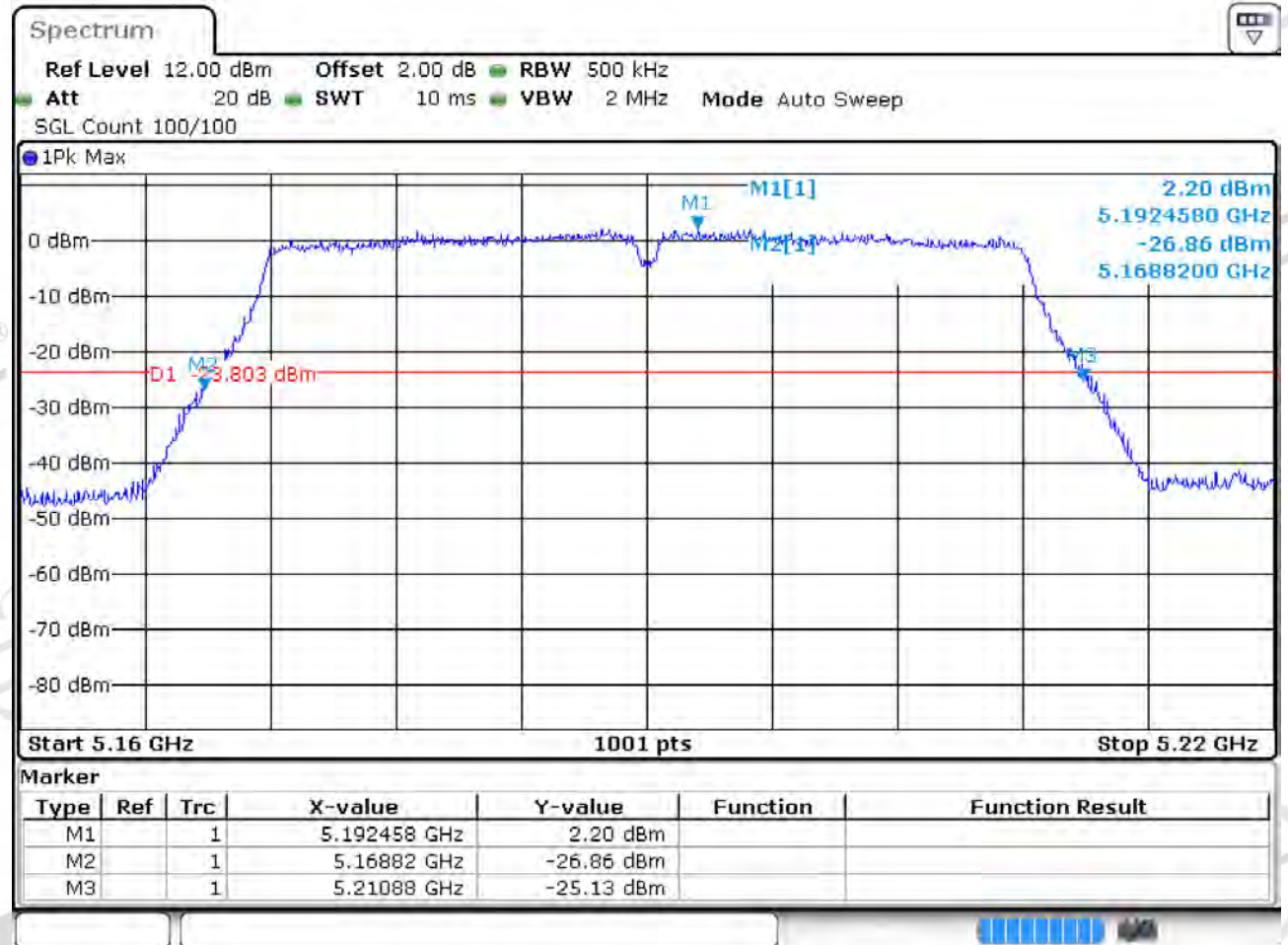
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11N40_134 ANT 2



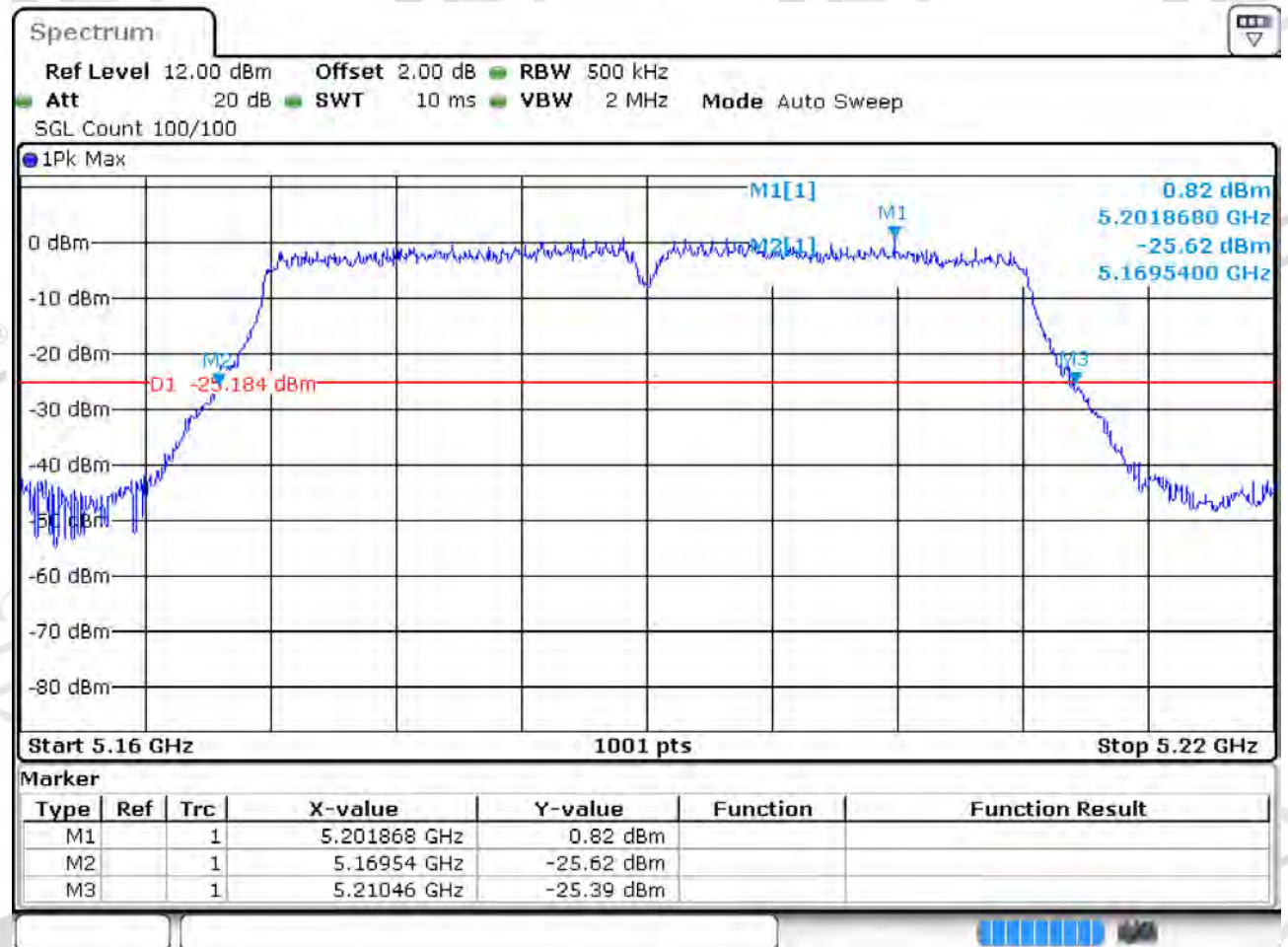
Date: 30 JUL 2019 01:50:09

11N40MIMO_38 ANT 1



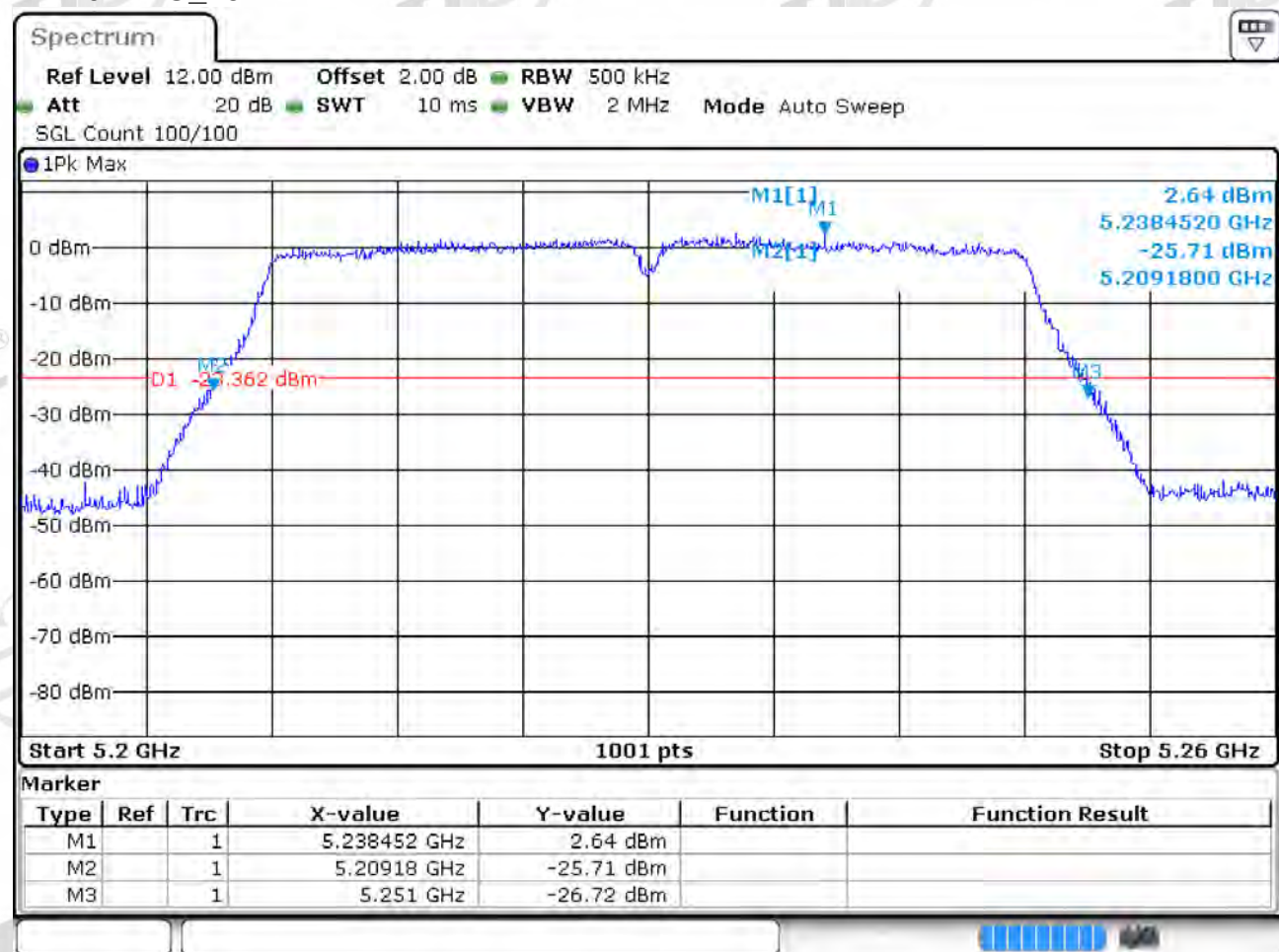
Date: 30 JUL 2019 06:39:55

11N40MIMO_38 ANT 2



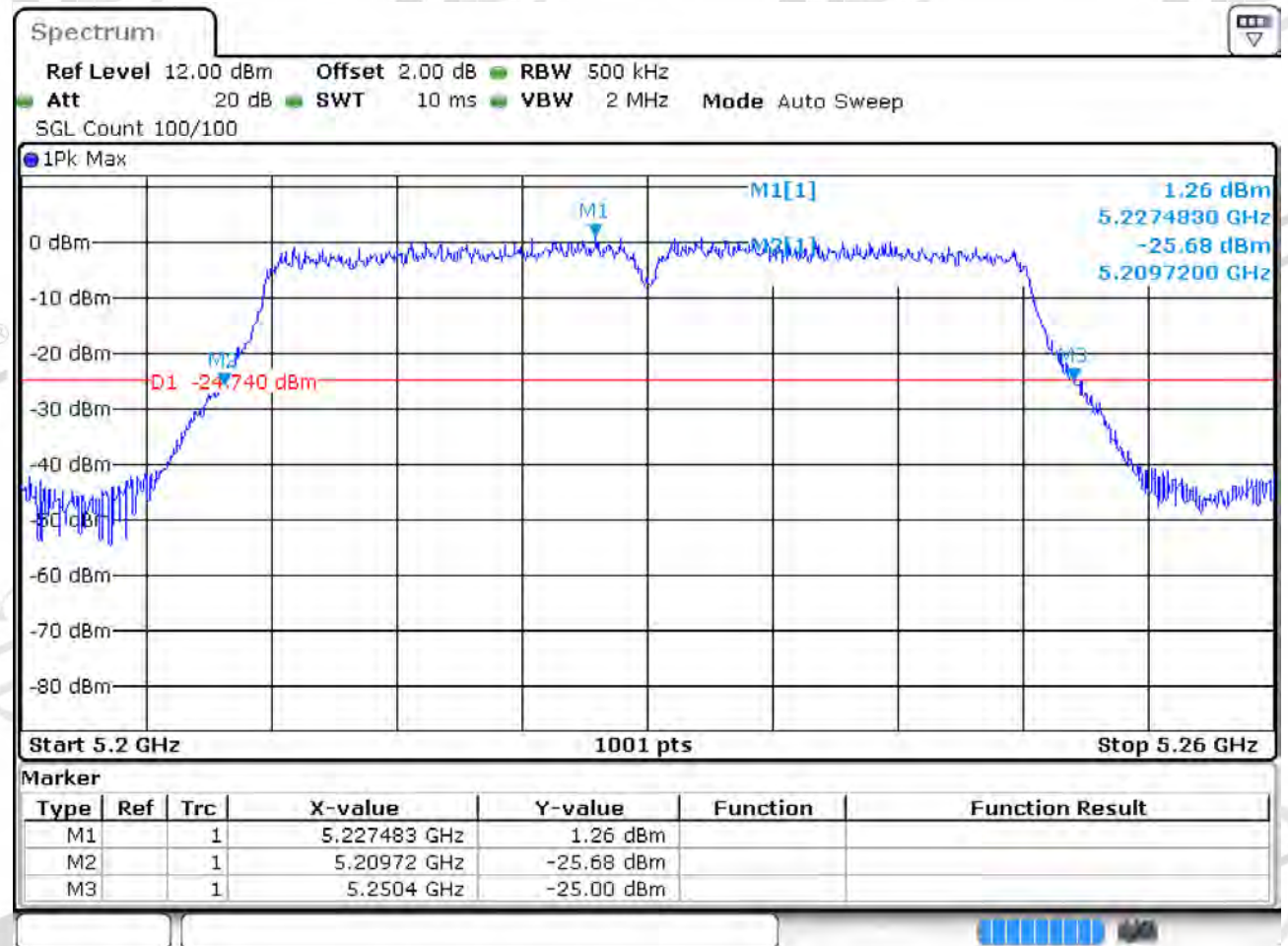
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11N40MIMO_46 ANT 1



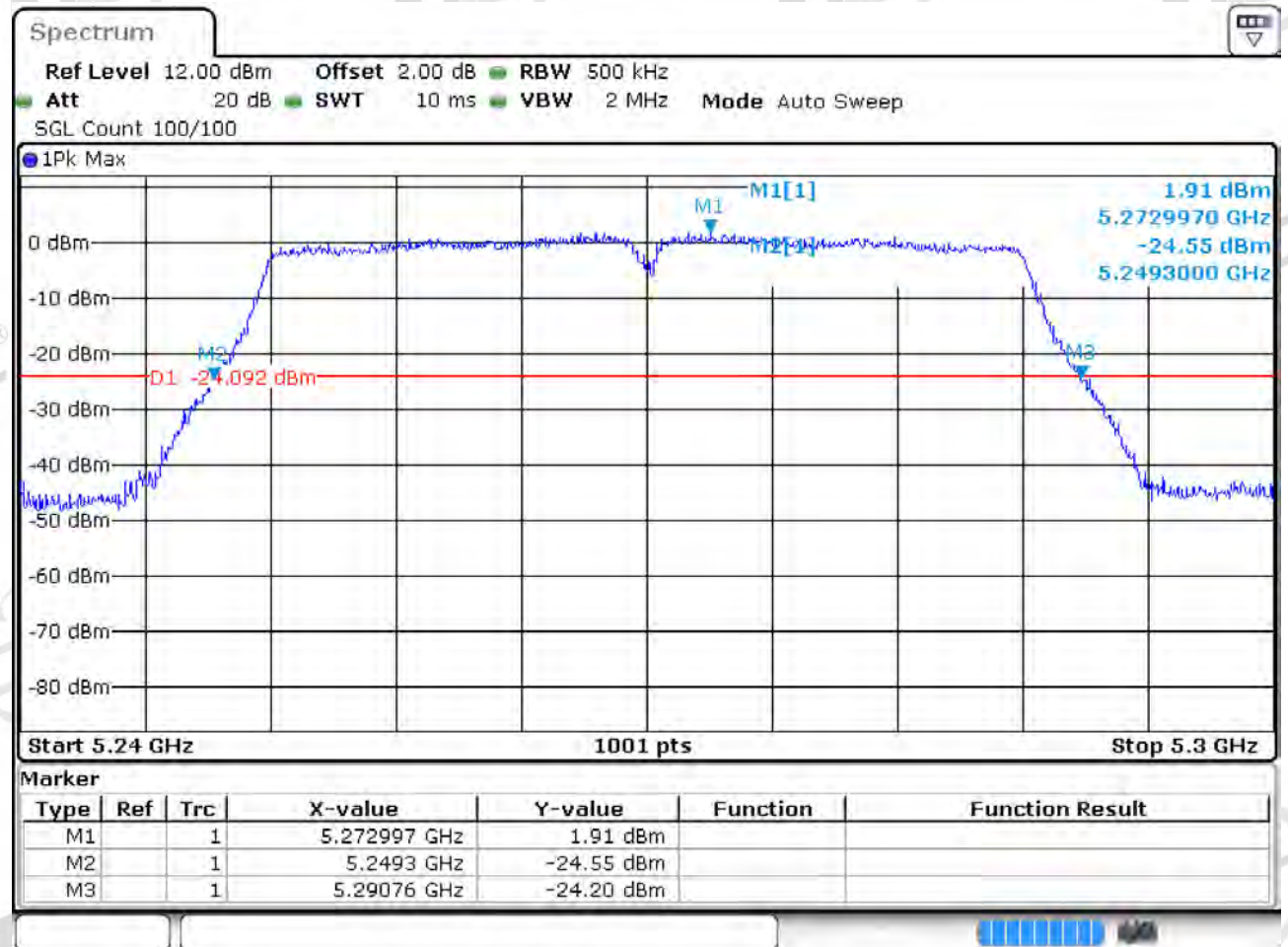
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11N40MIMO_46 ANT 2



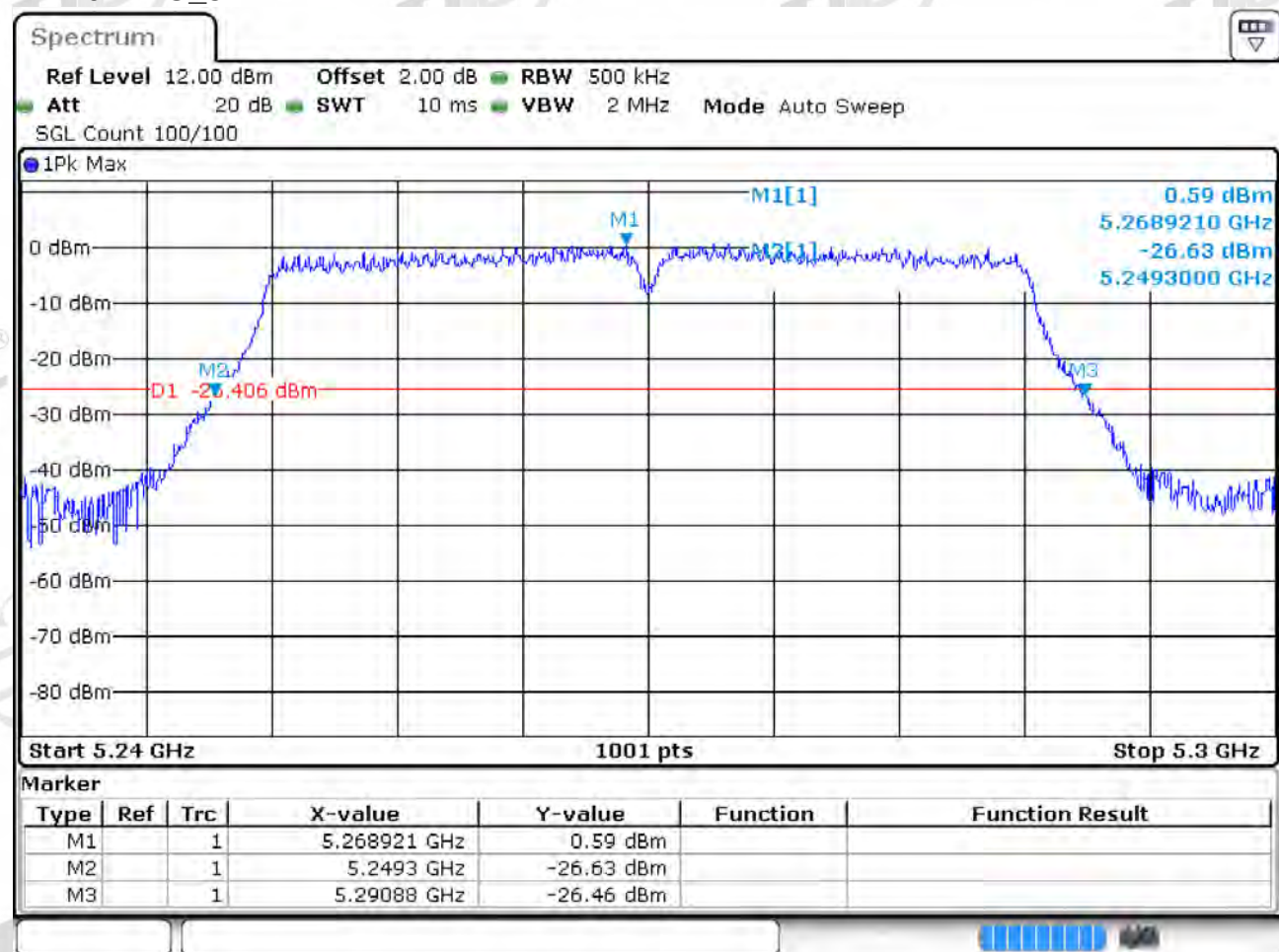
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11N40MIMO_54 ANT 1



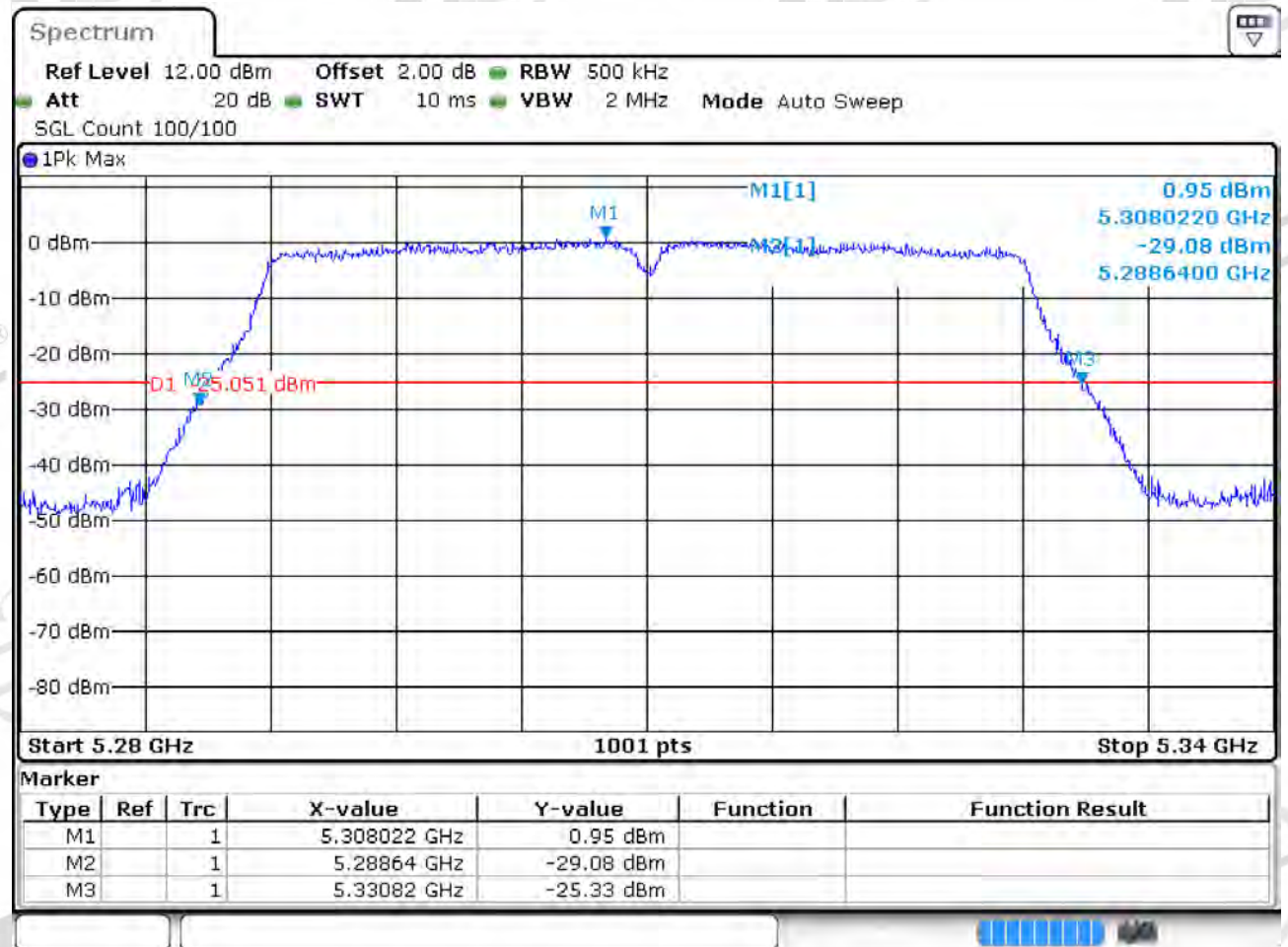
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11N40MIMO_54 ANT 2



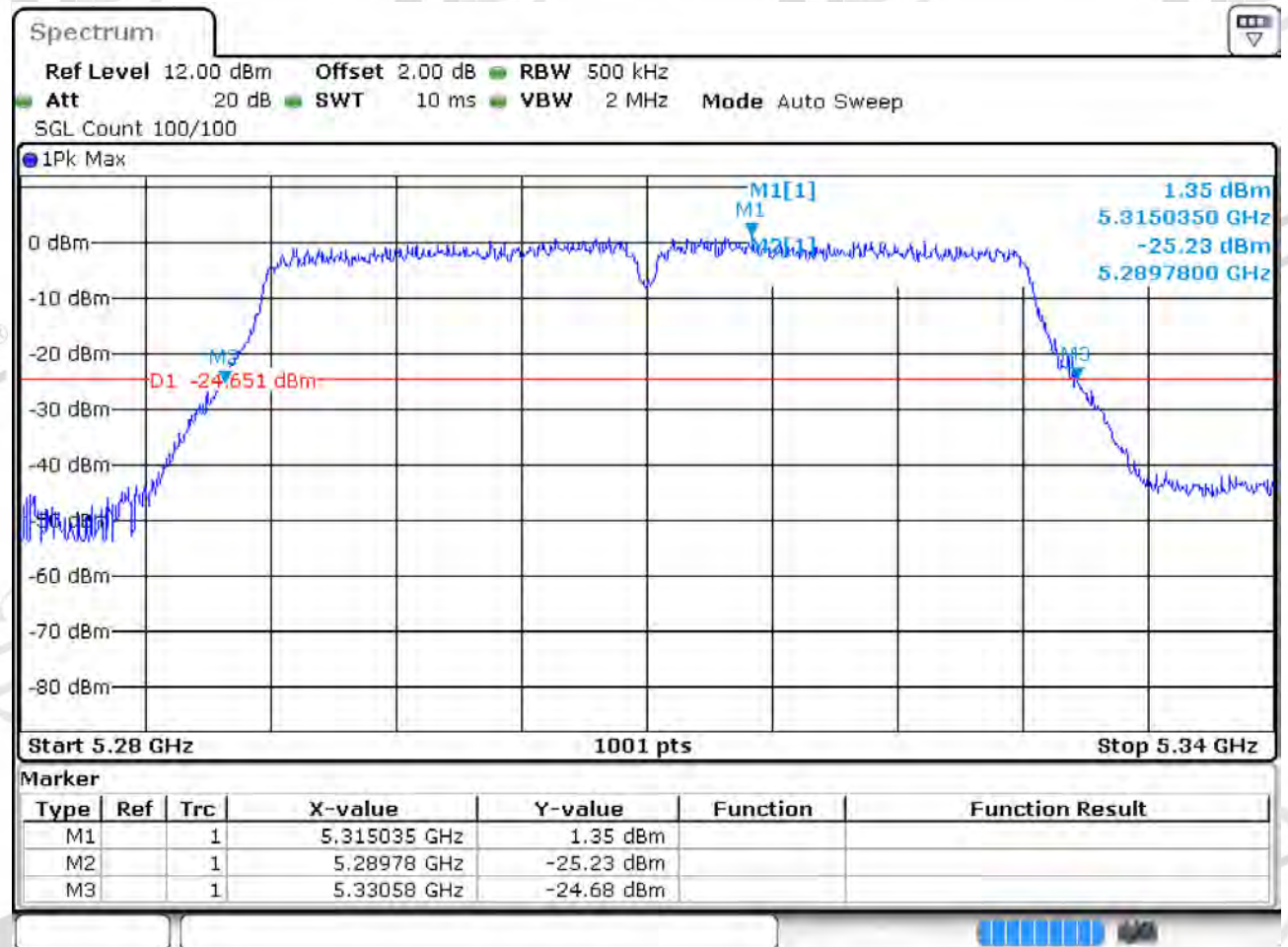
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11N40MIMO_62 ANT 1



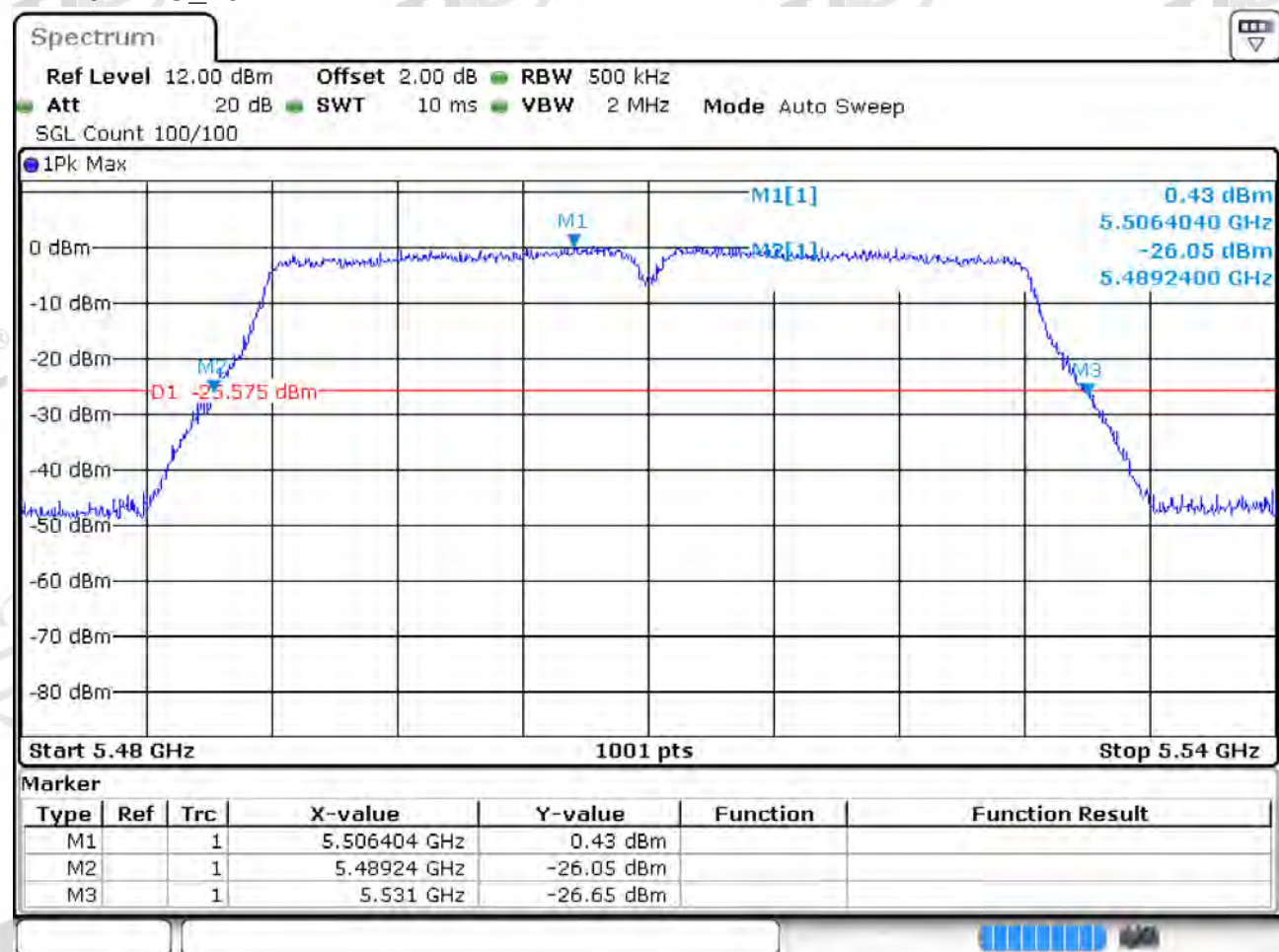
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11N40MIMO_62 ANT 2



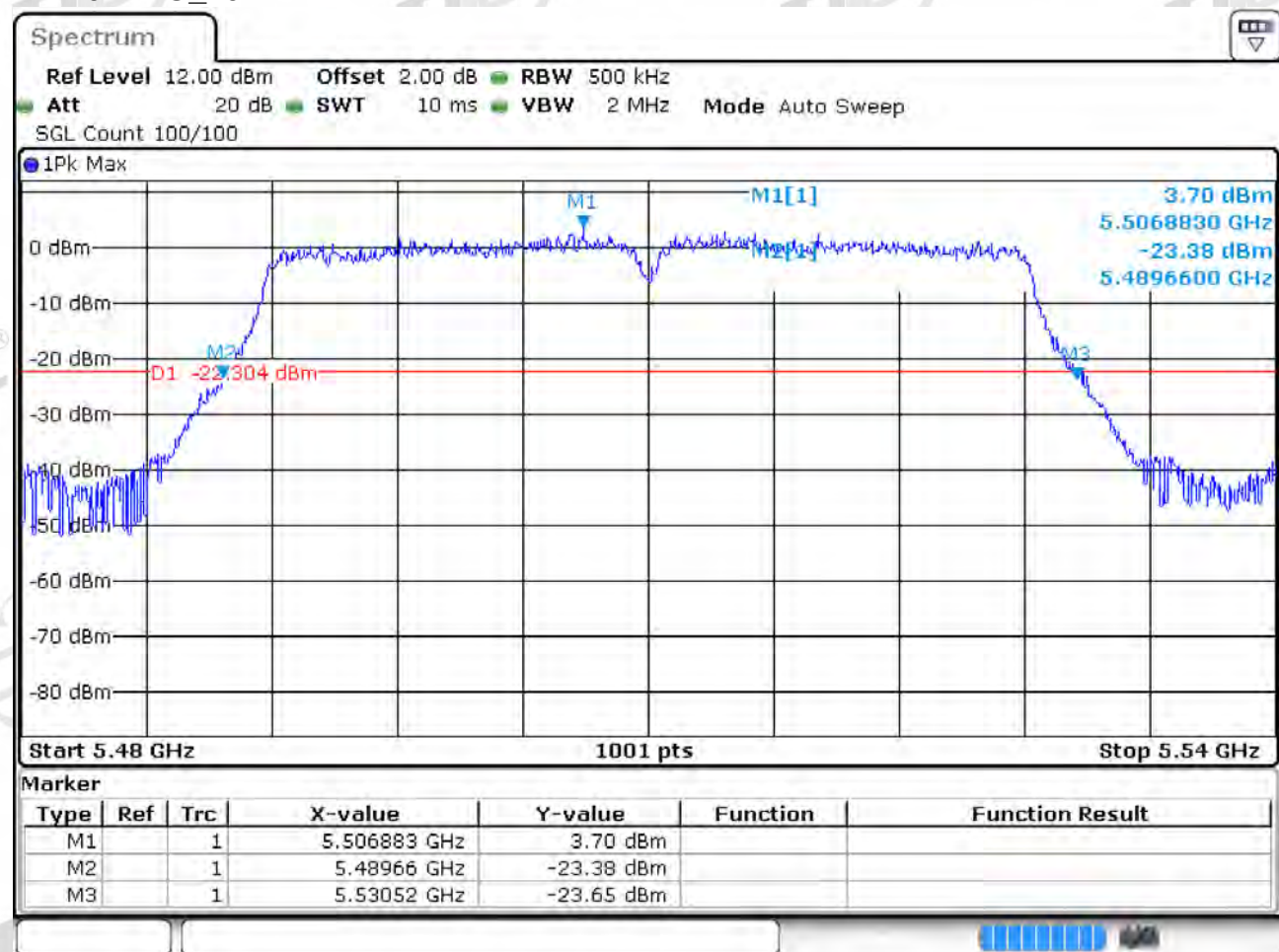
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11N40MIMO_102 ANT 1



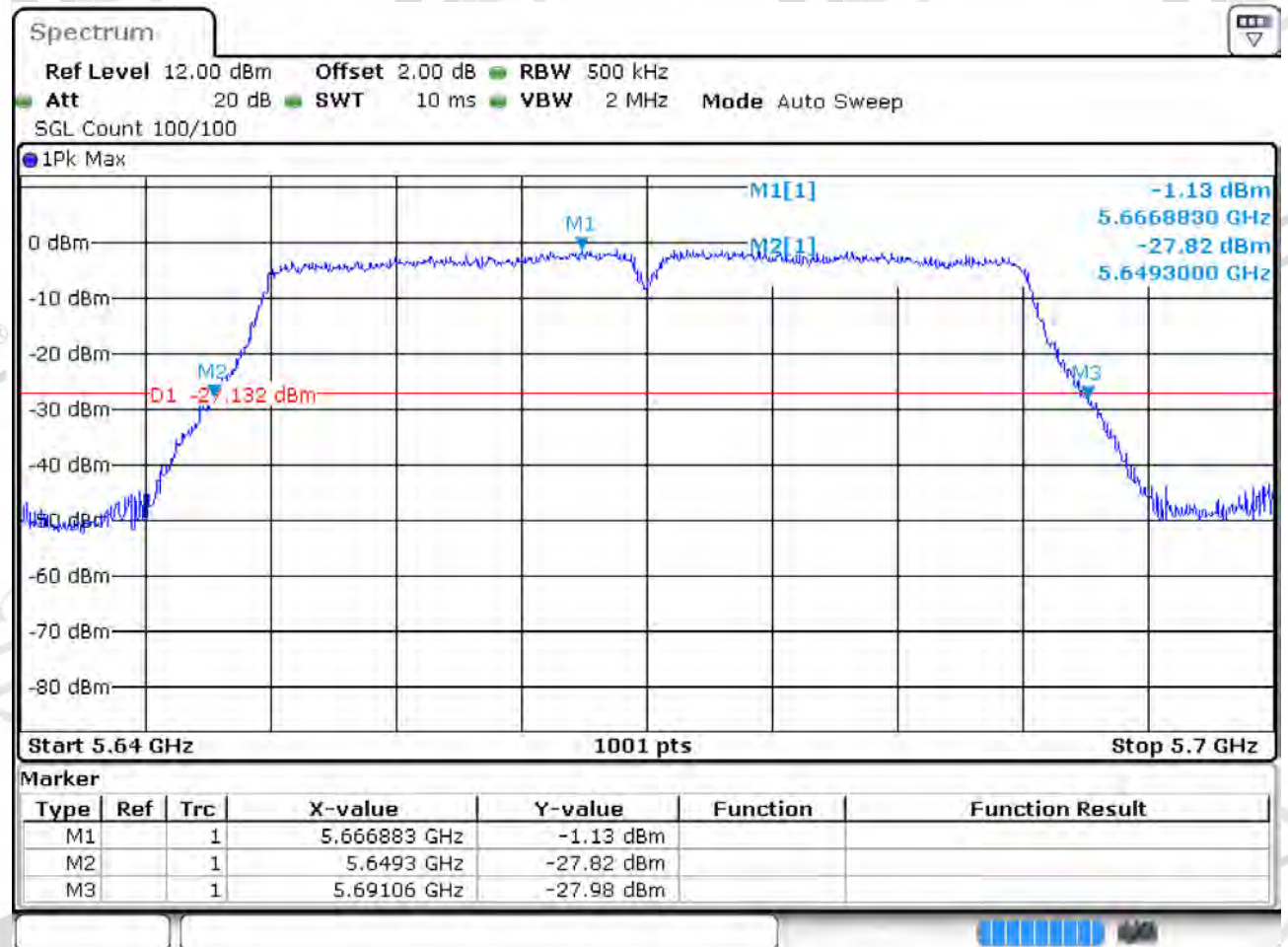
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11N40MIMO_102 ANT 2



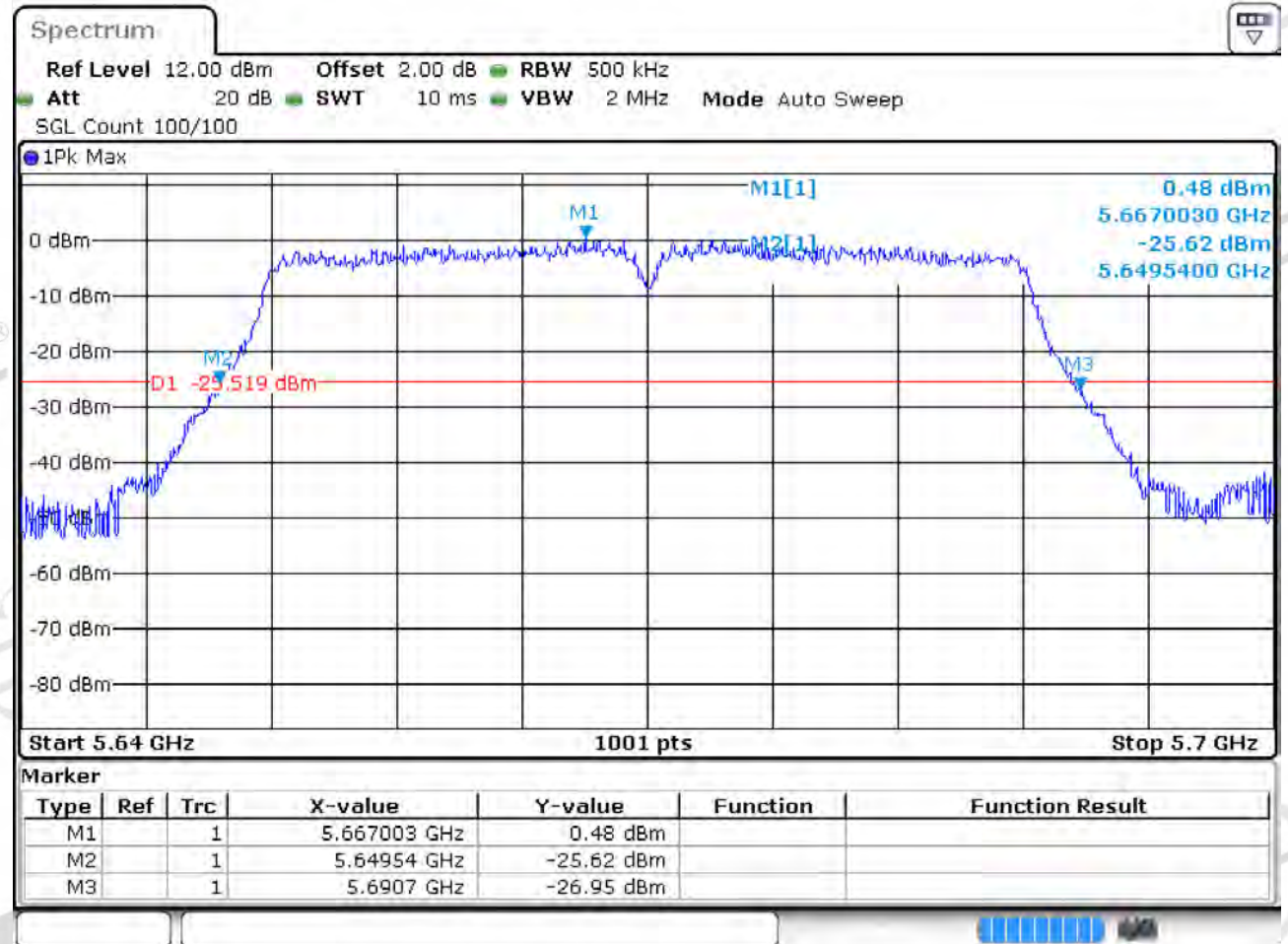
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11N40MIMO_134 ANT 1



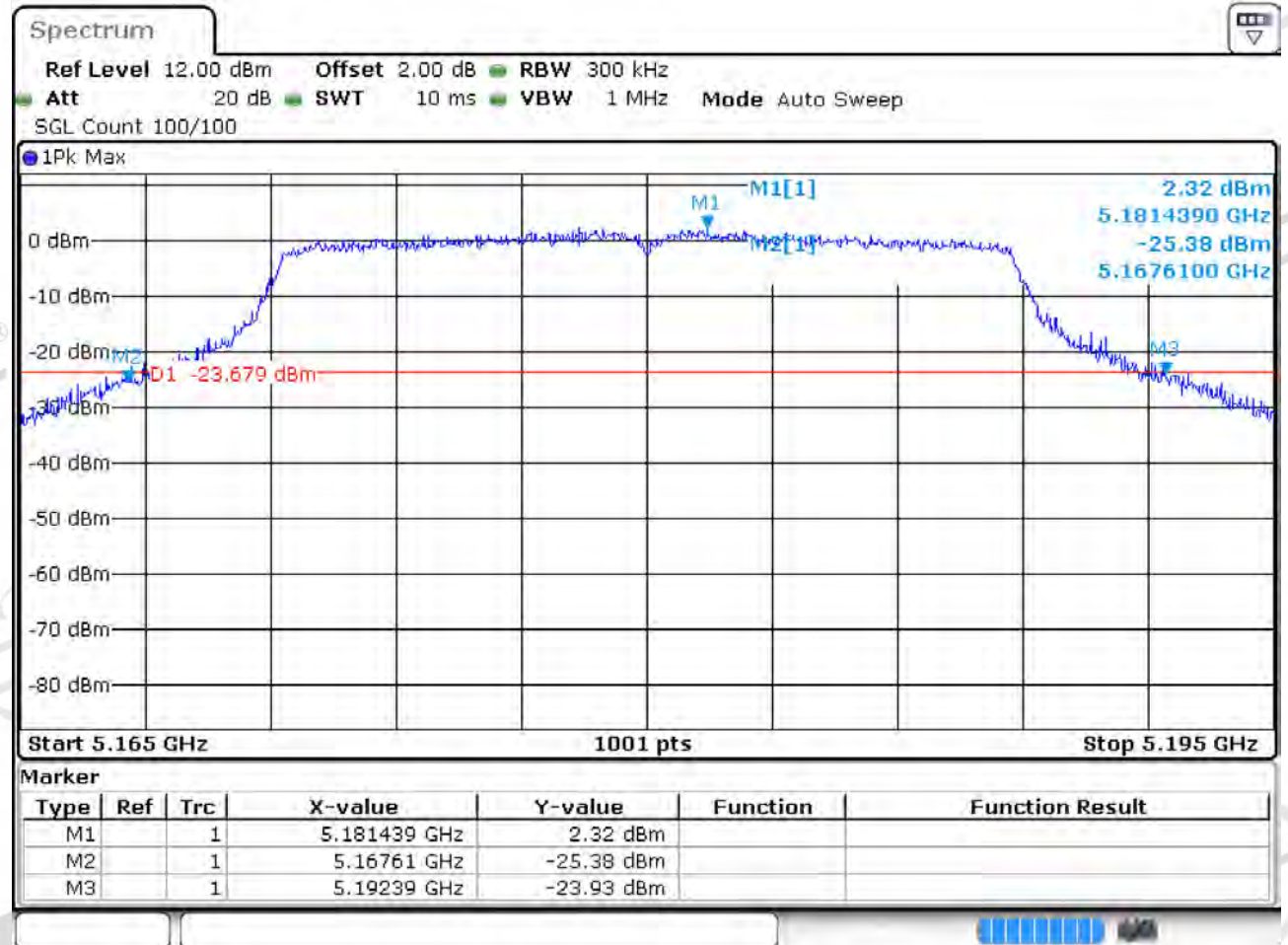
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11N40MIMO_134 ANT 2



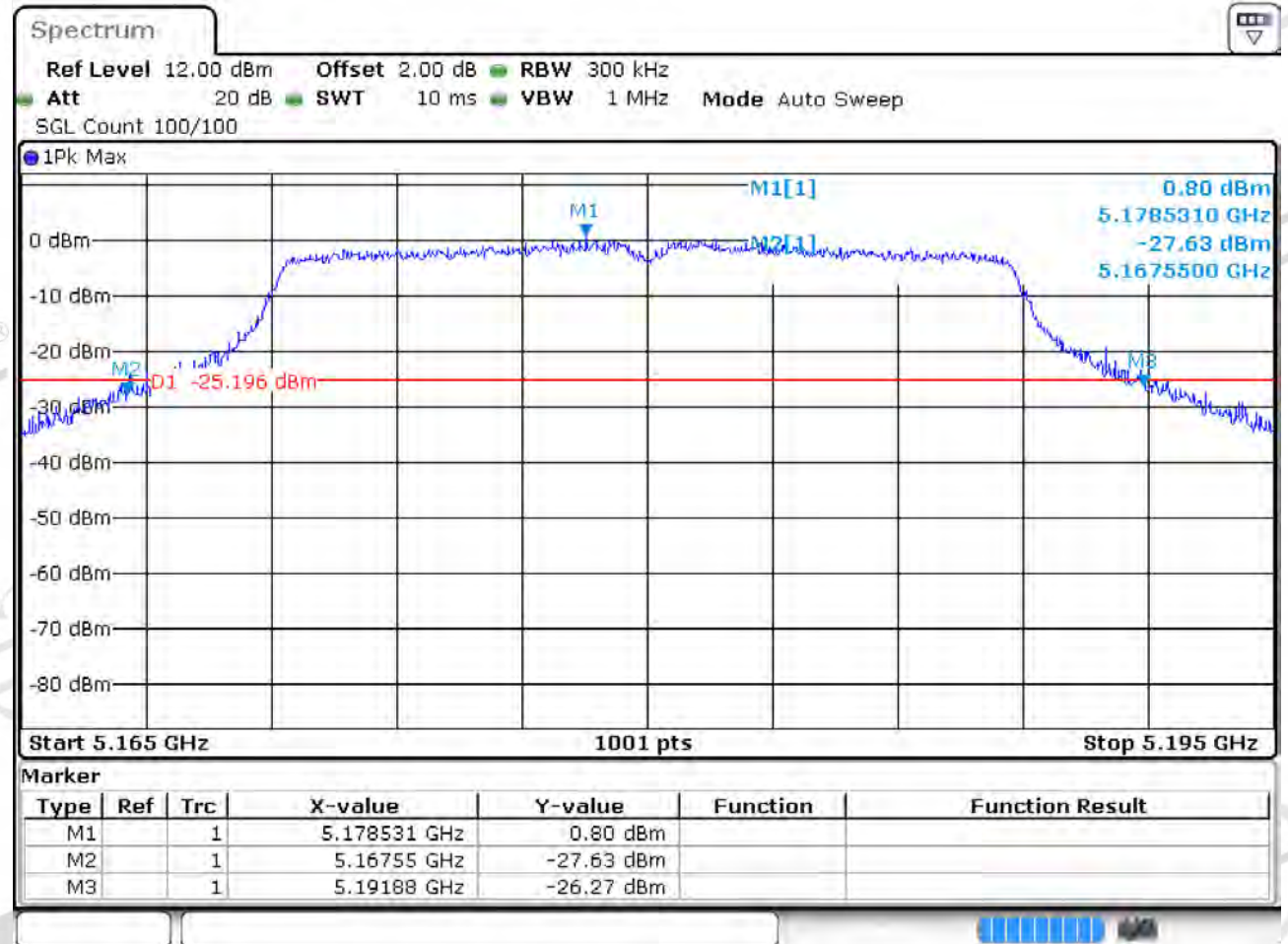
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11AC20_36 ANT 1



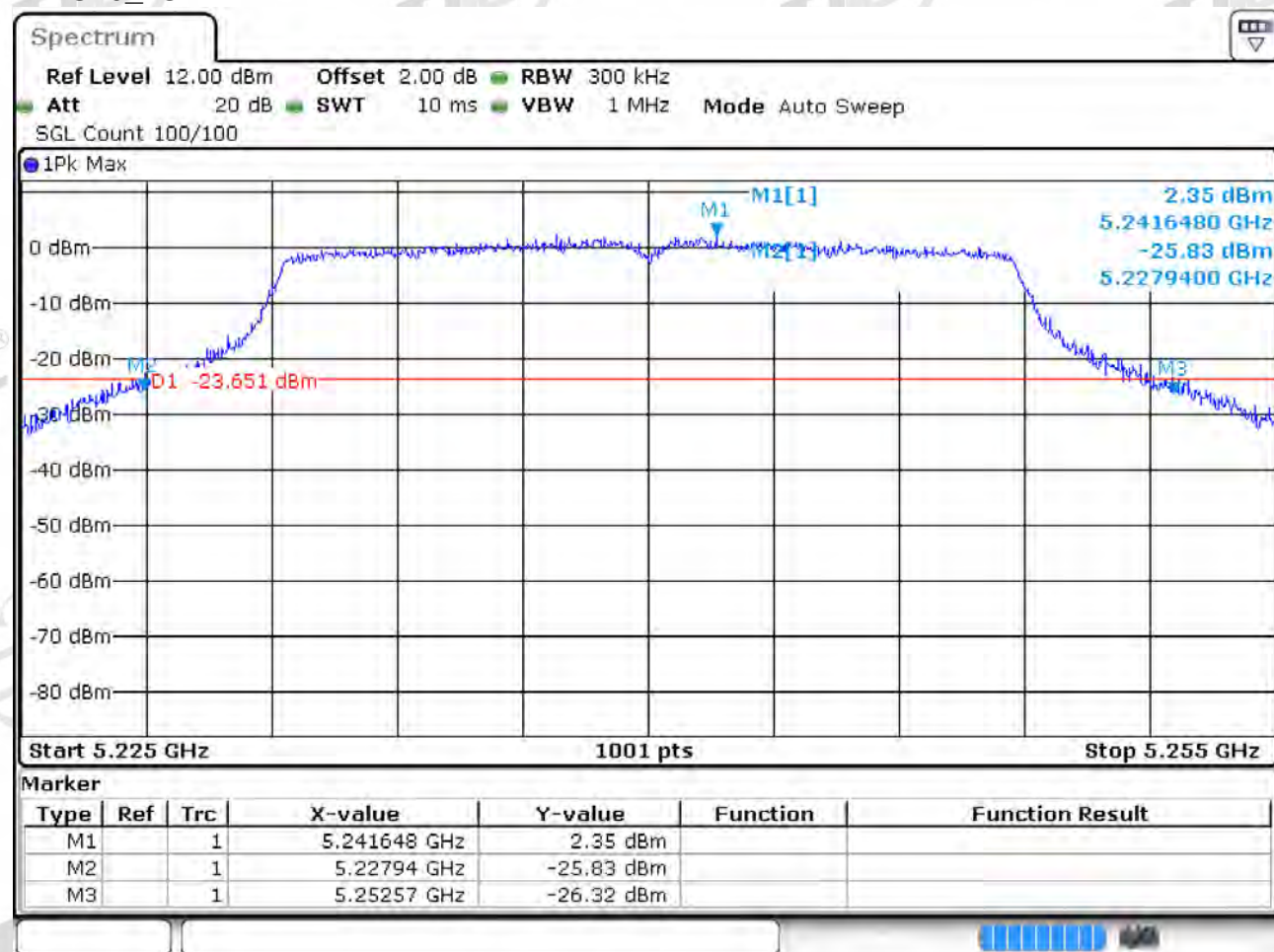
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11AC20_36 ANT 2



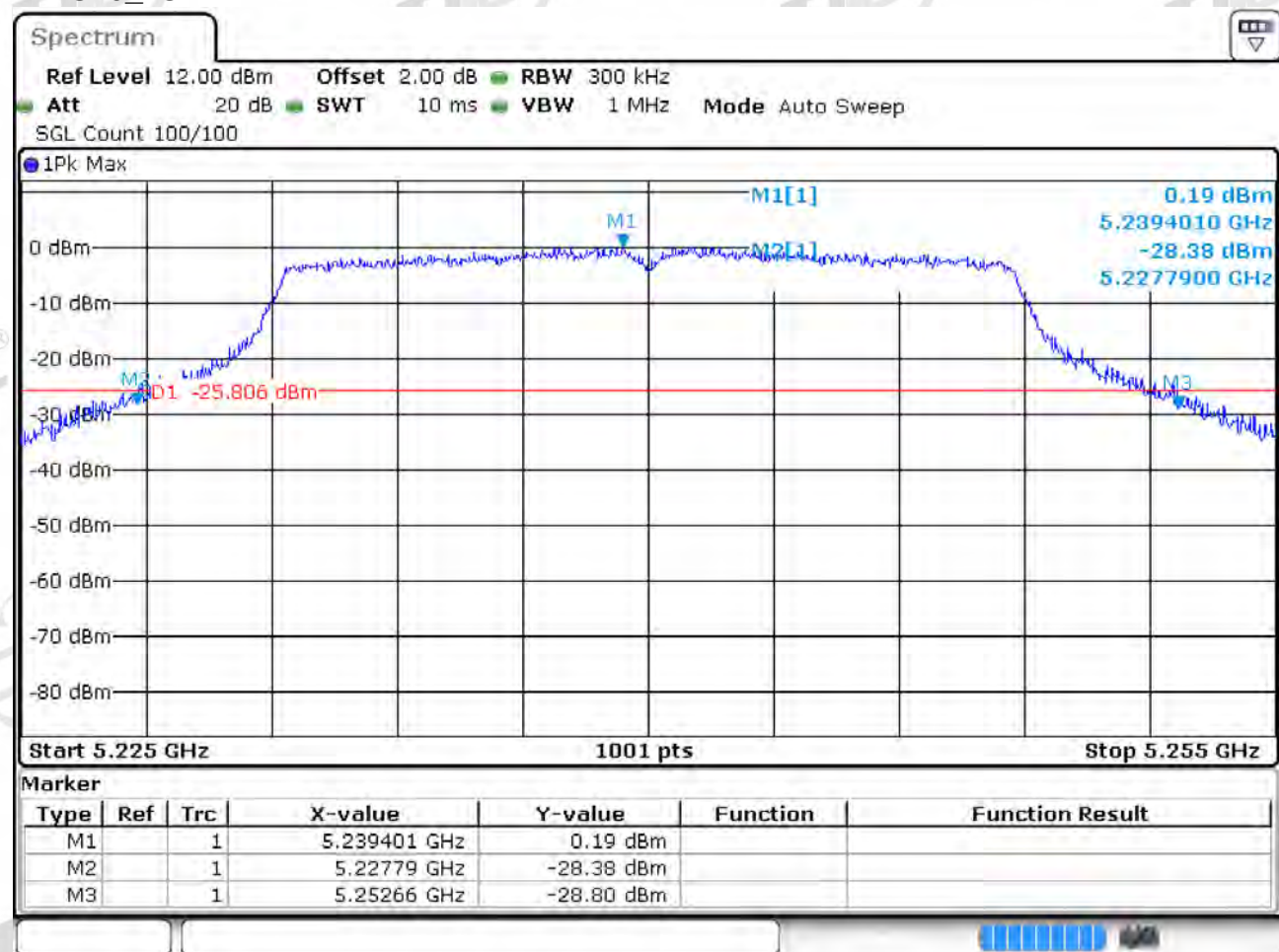
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11AC20_48 ANT 1



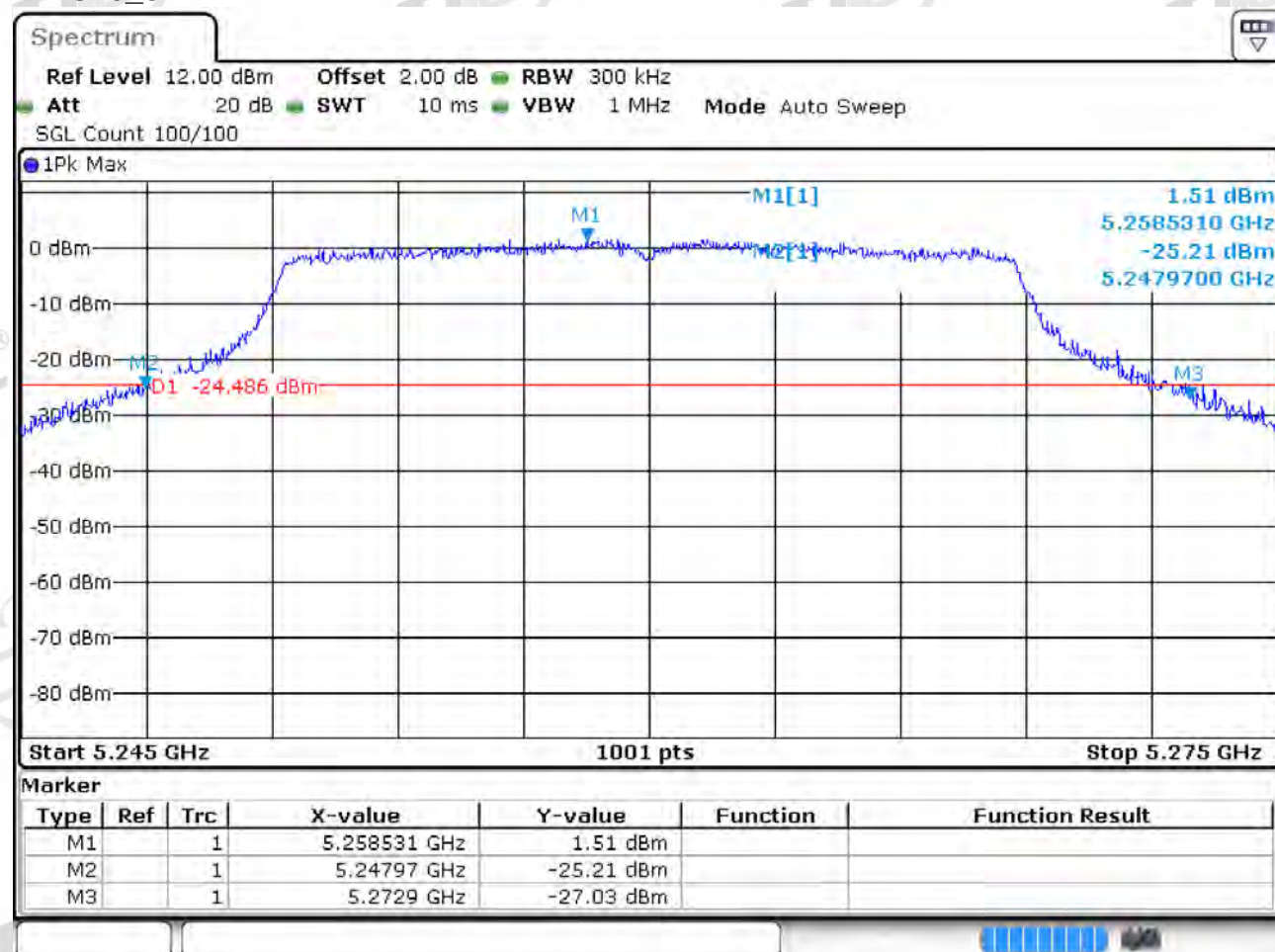
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11AC20_48 ANT 2



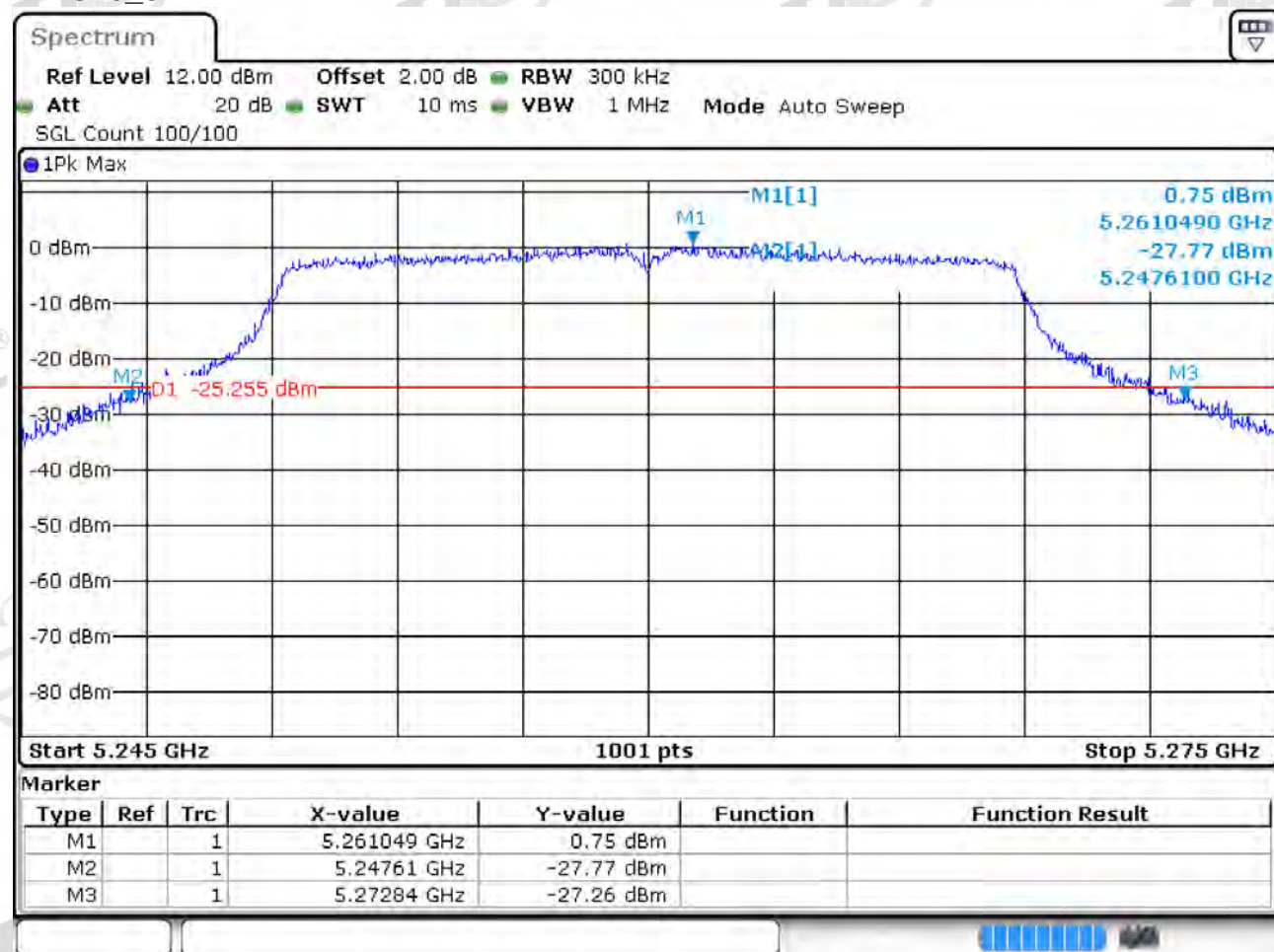
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11AC20_52 ANT 1



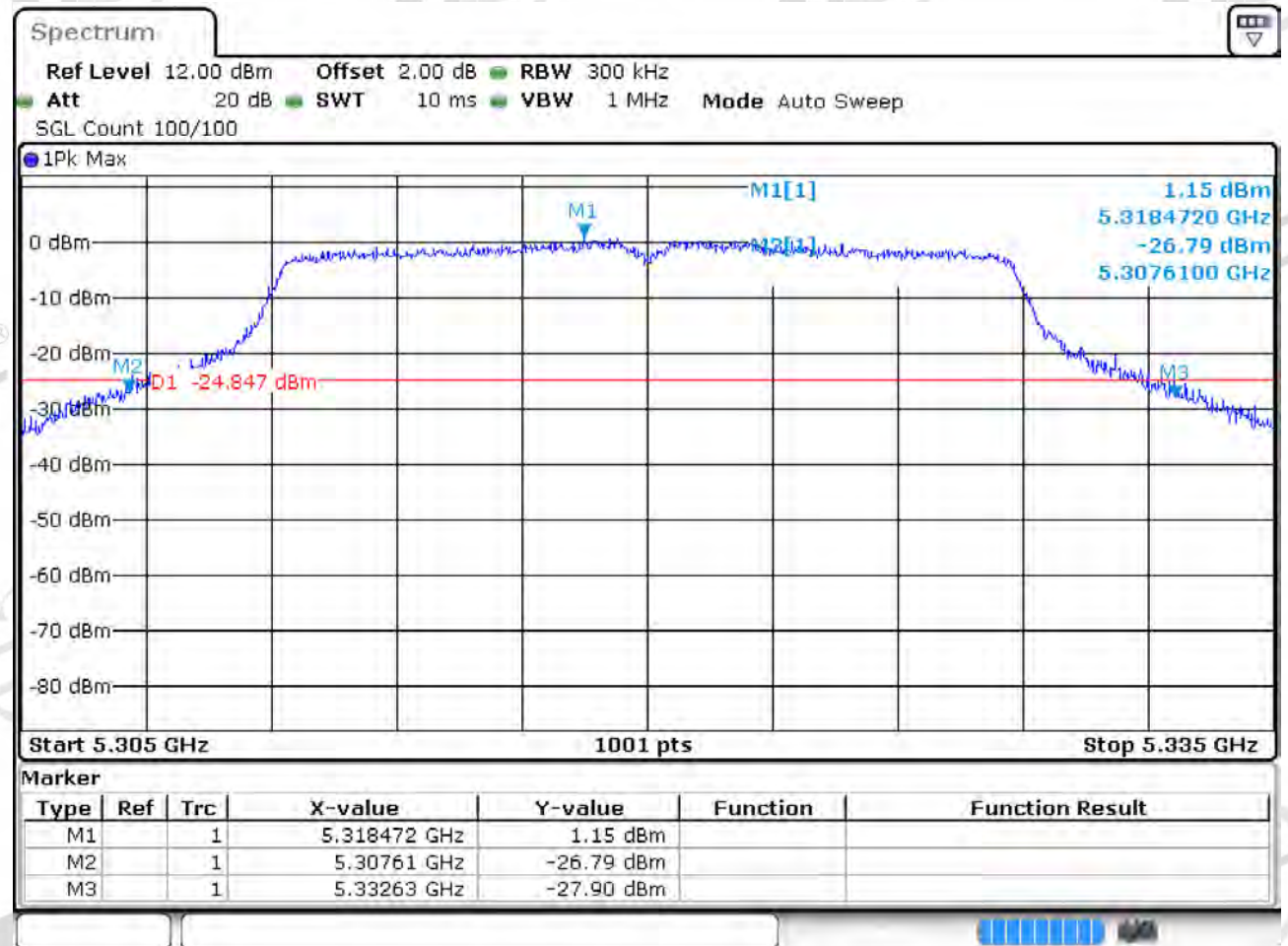
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11AC20_52 ANT 2



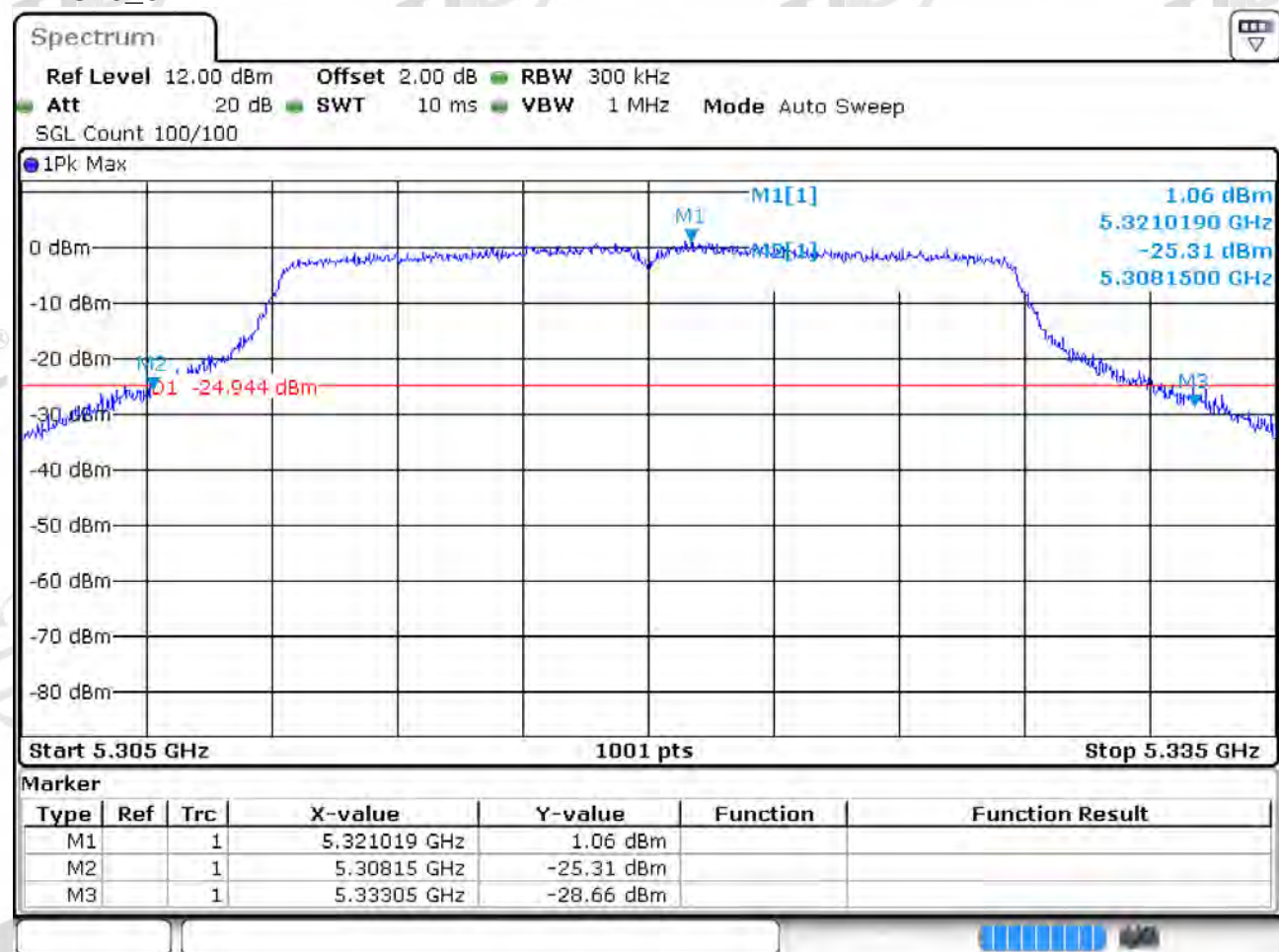
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11AC20_64 ANT 1



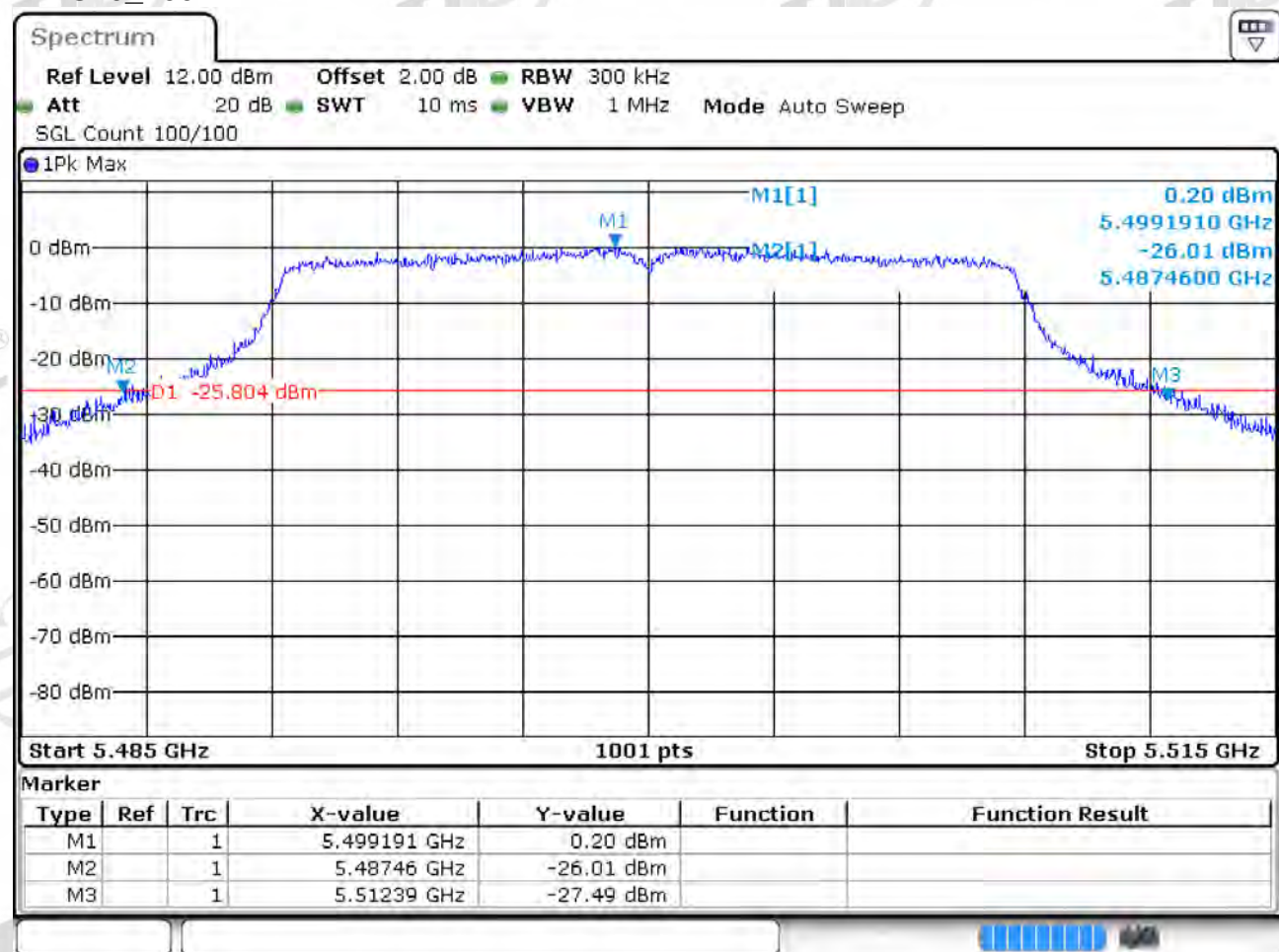
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11AC20_64 ANT 2



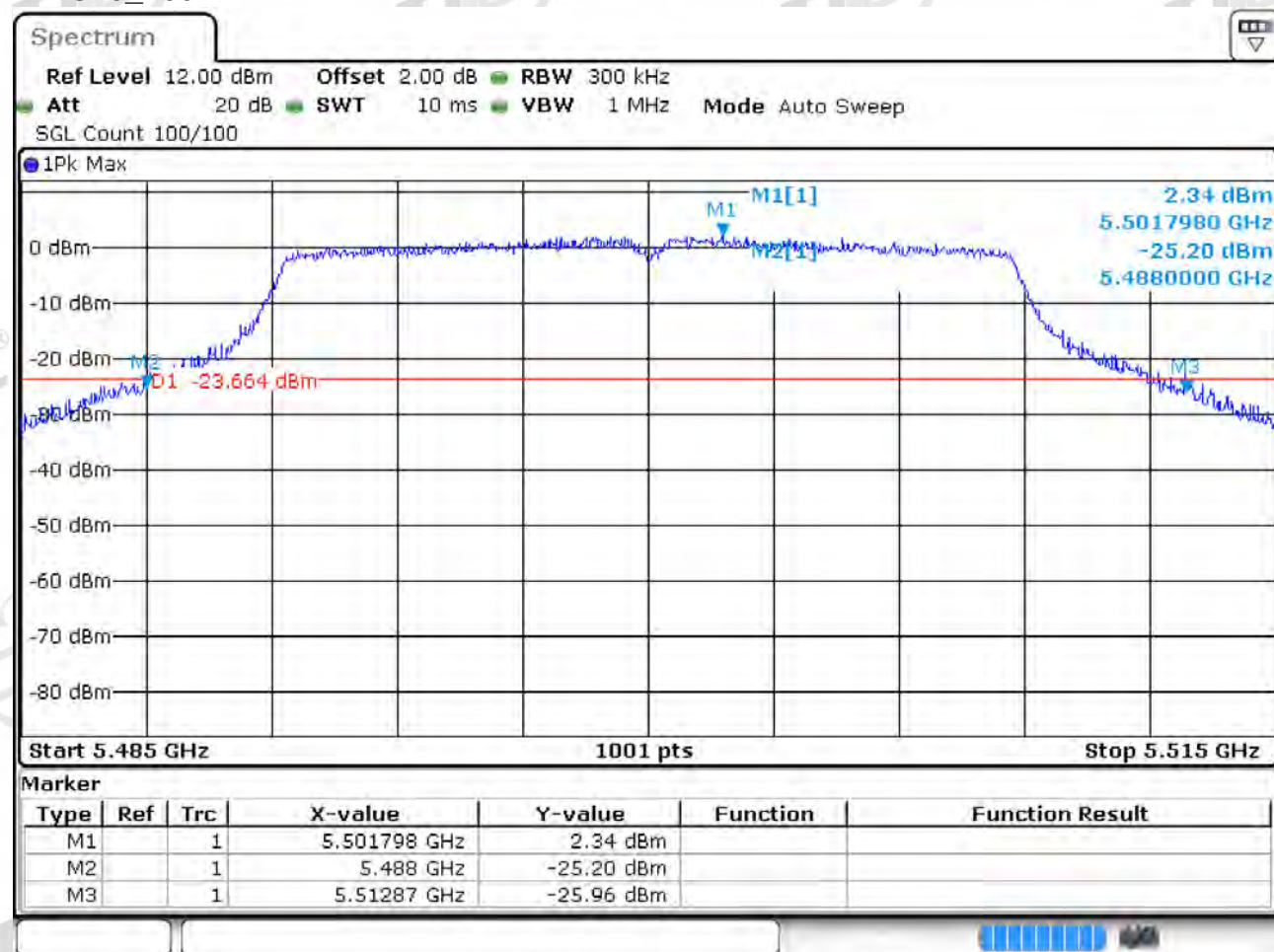
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11AC20_100 ANT 1



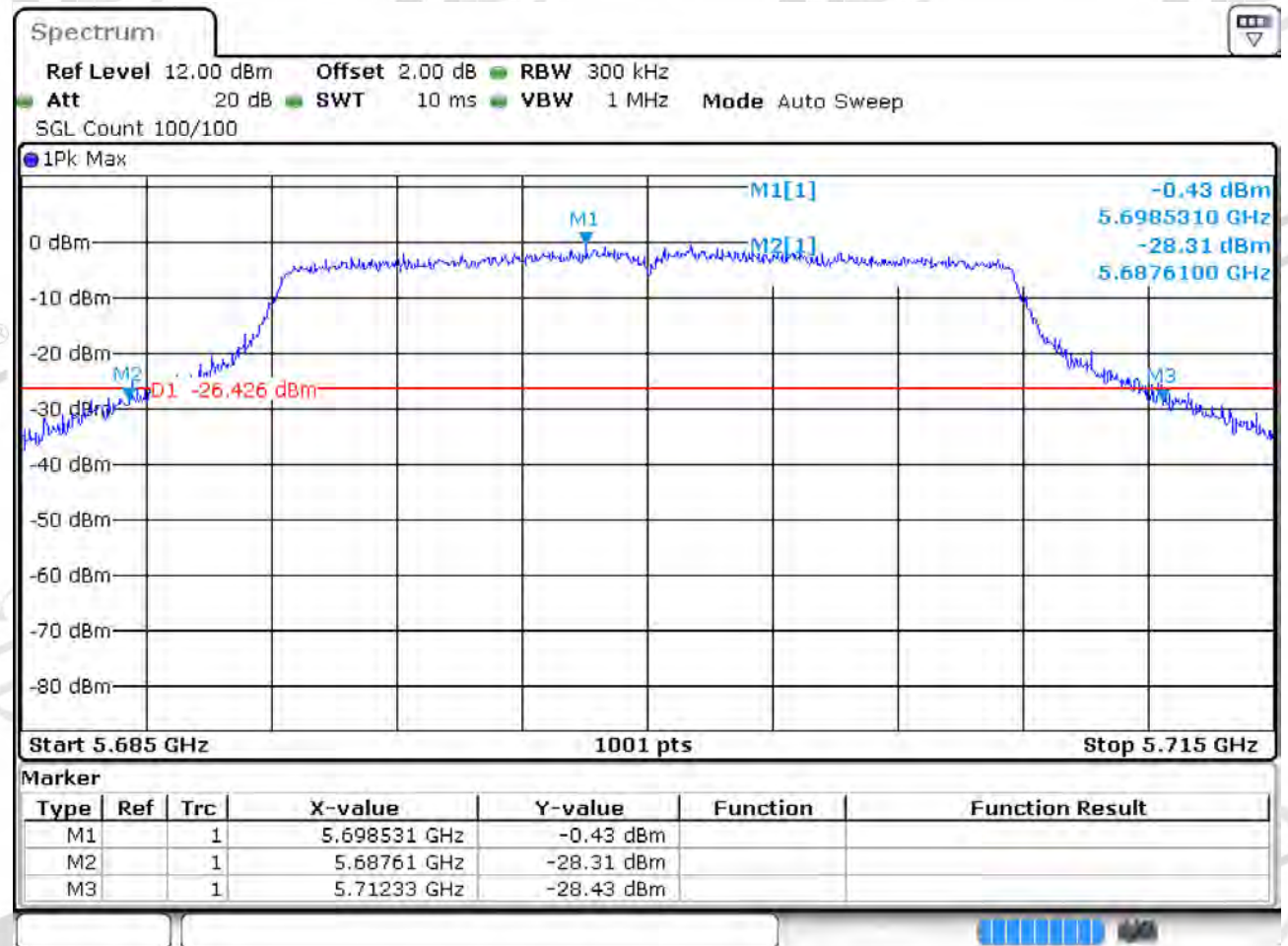
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11AC20_100 ANT 2



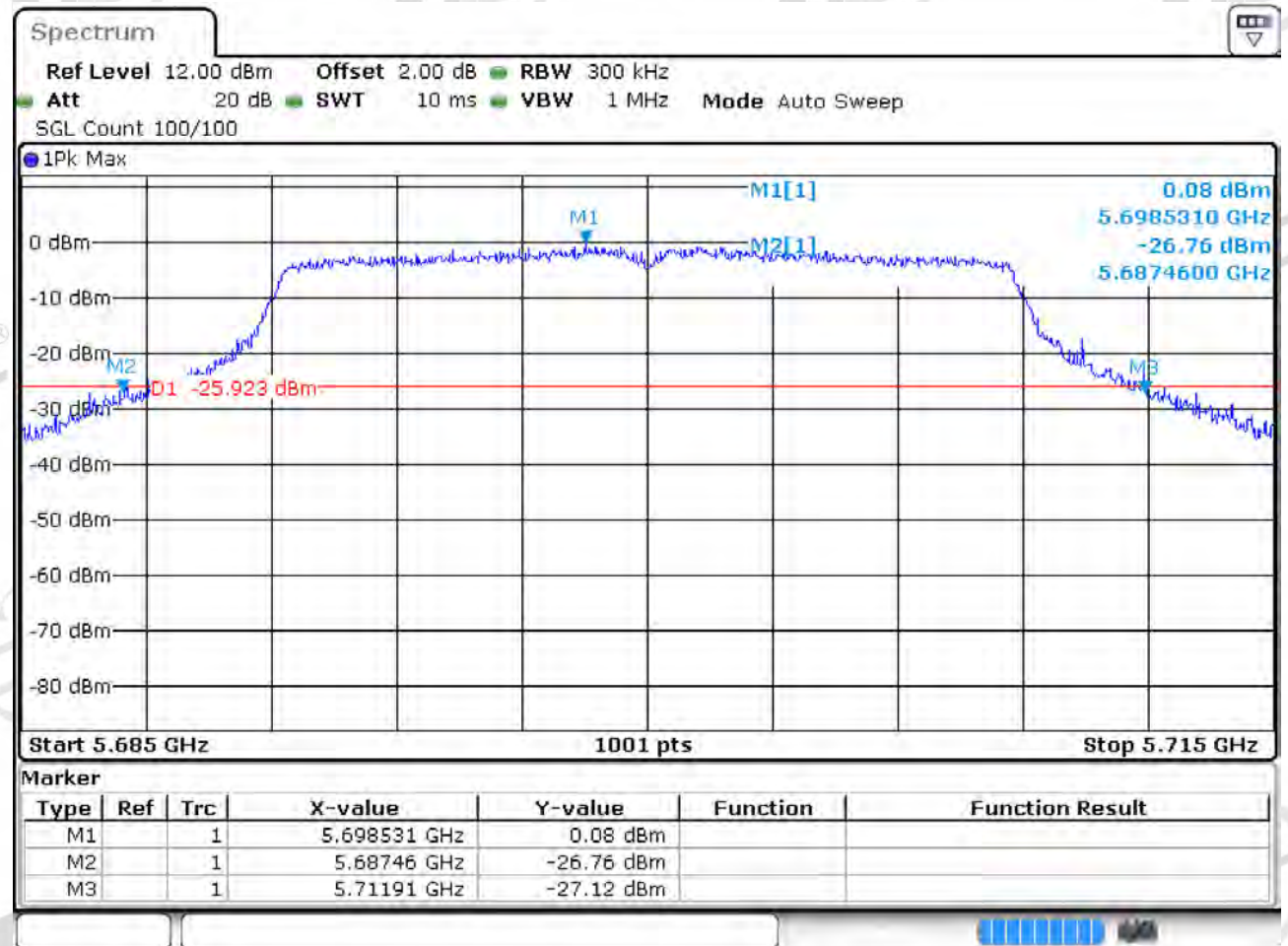
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11AC20_140 ANT 1



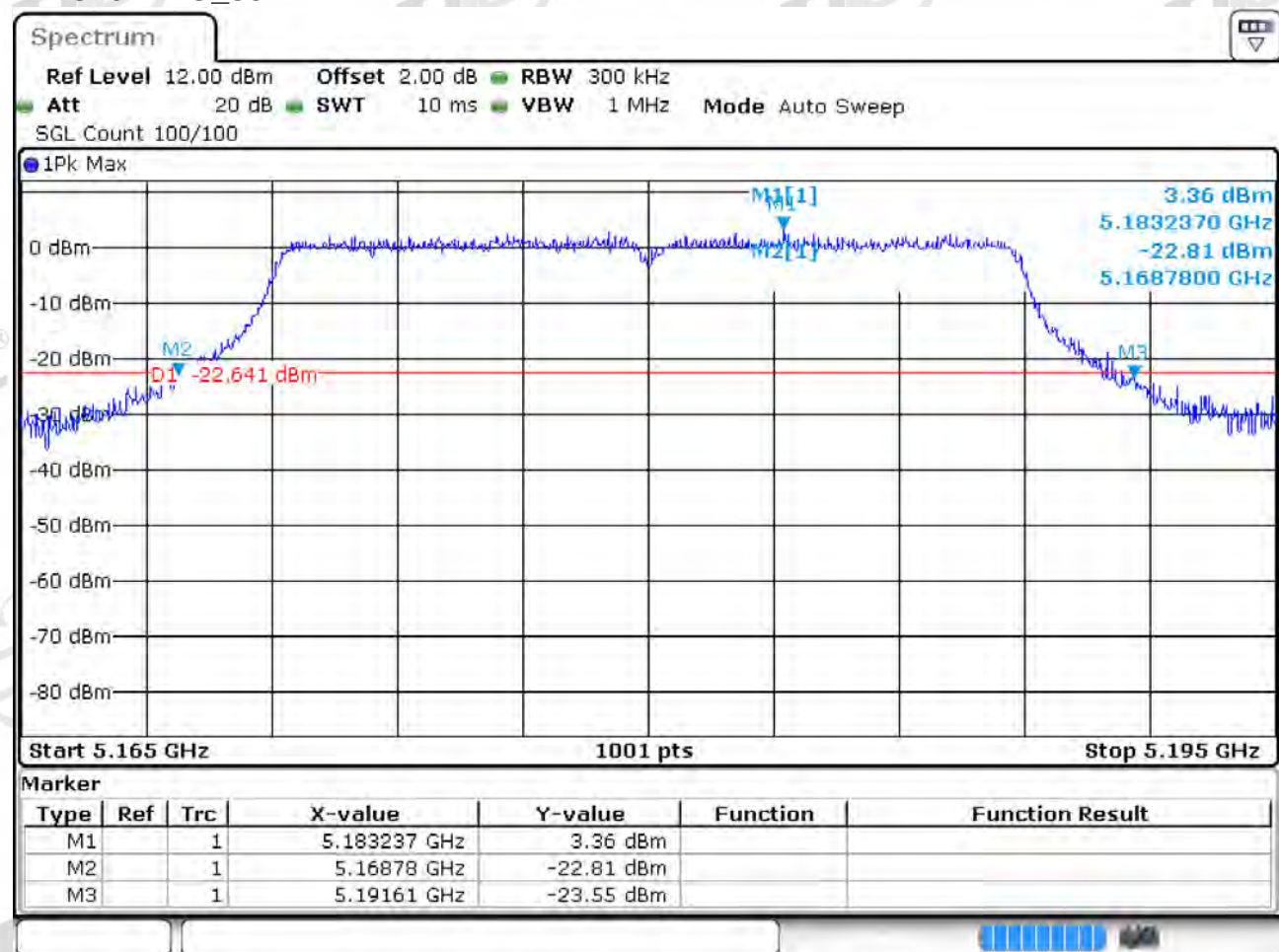
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11AC20_140 ANT 2



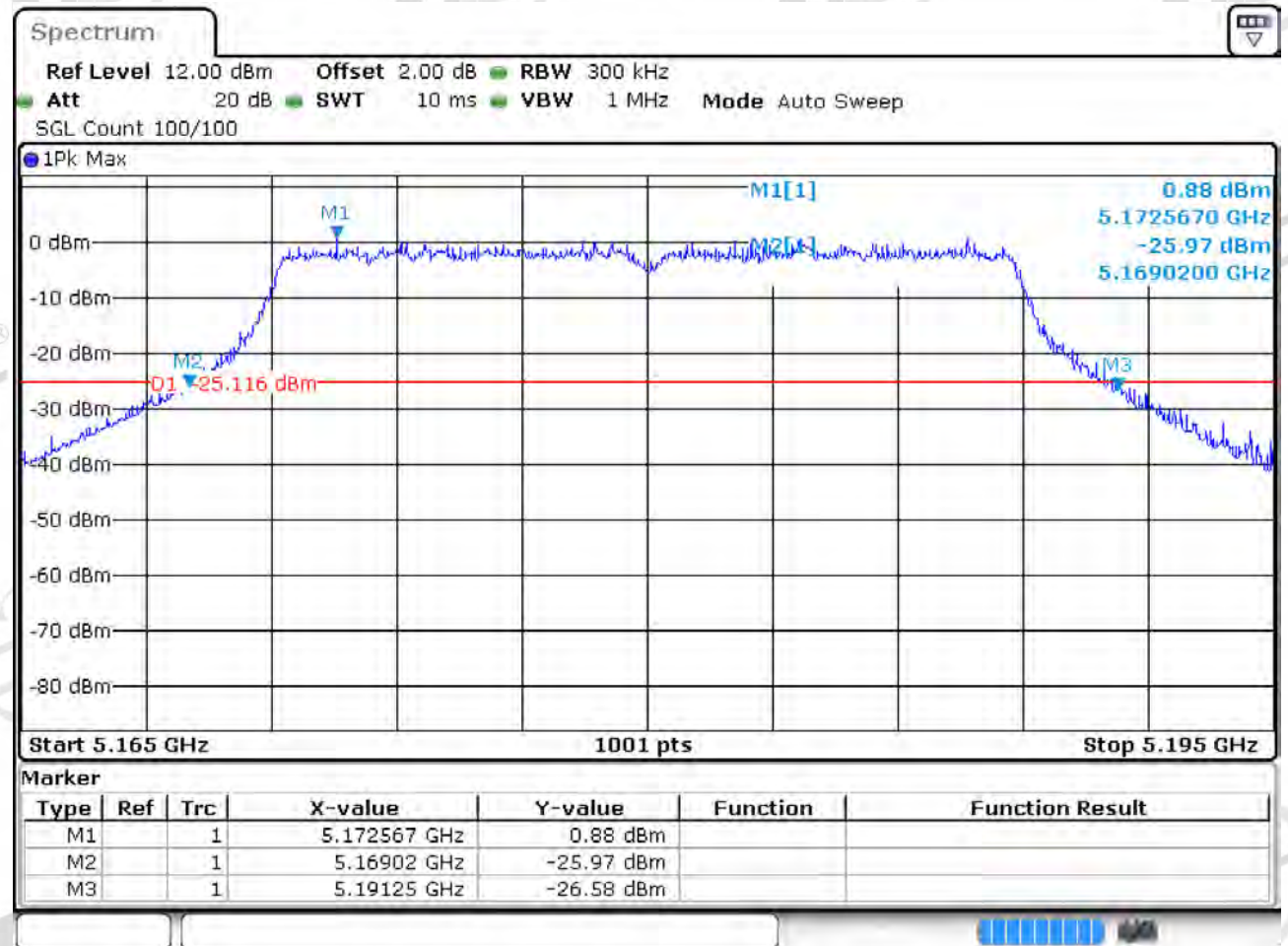
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11AC20MIMO_36 ANT 1



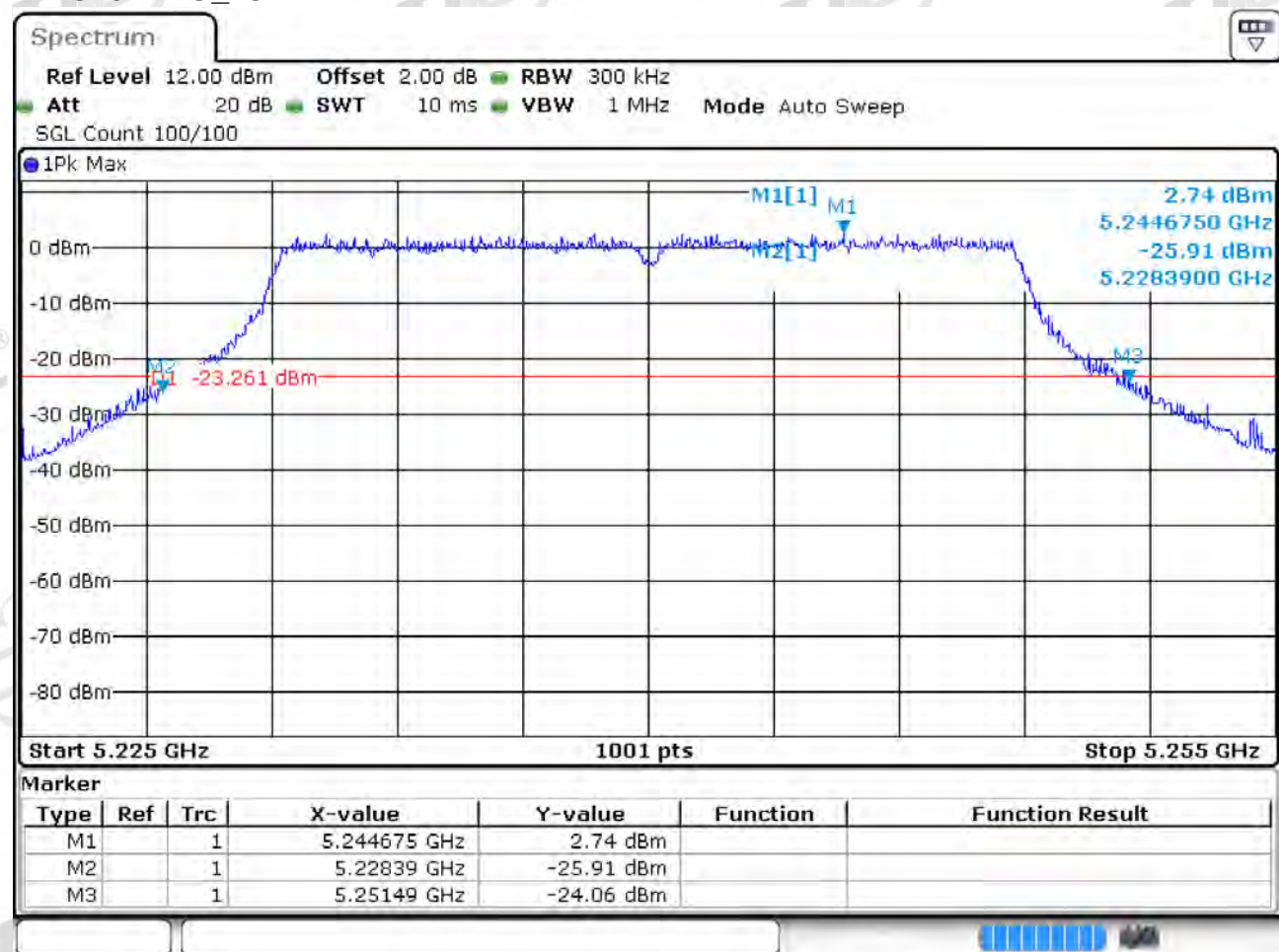
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11AC20MIMO_36 ANT 2



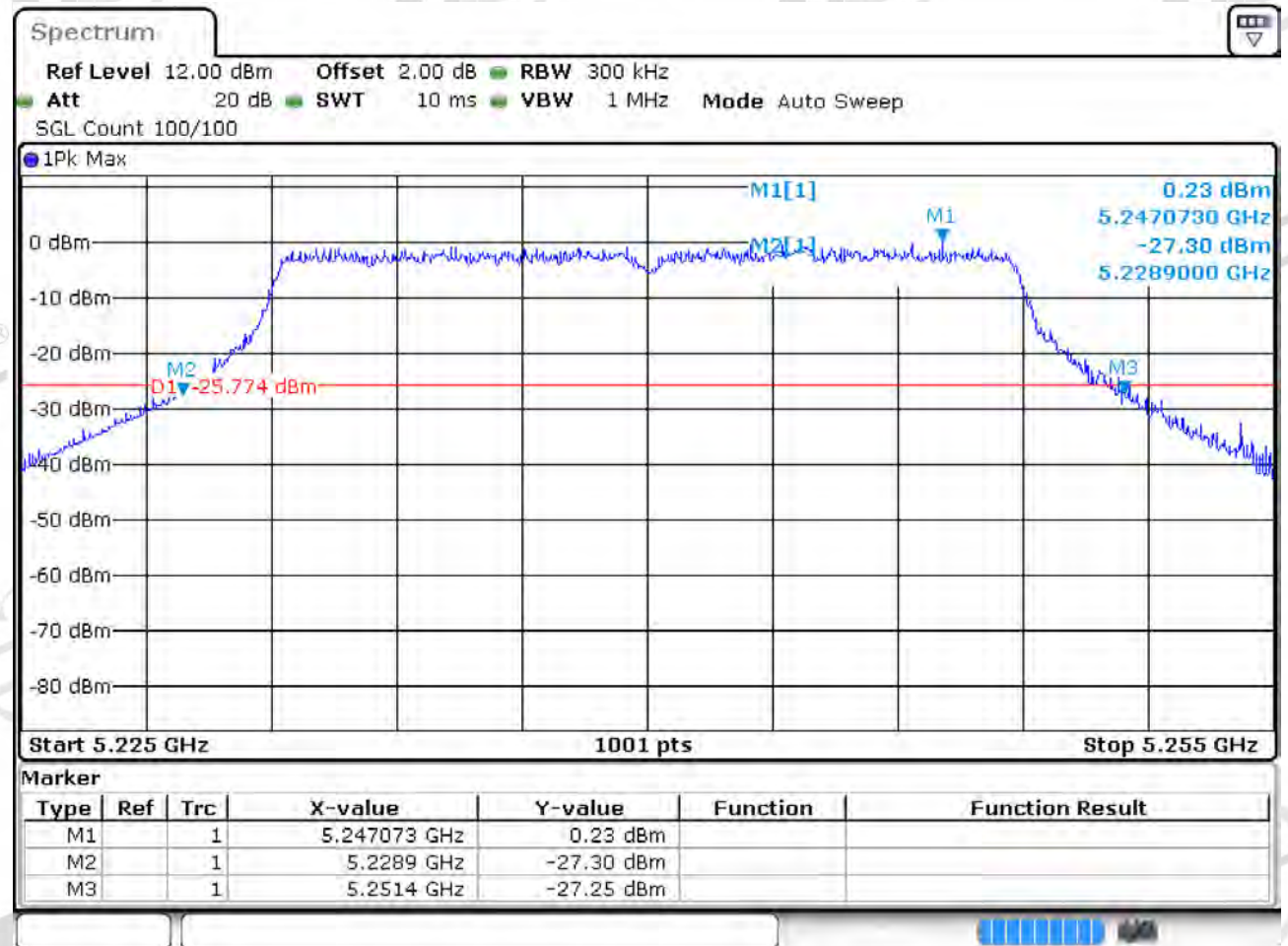
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11AC20MIMO_48 ANT 1



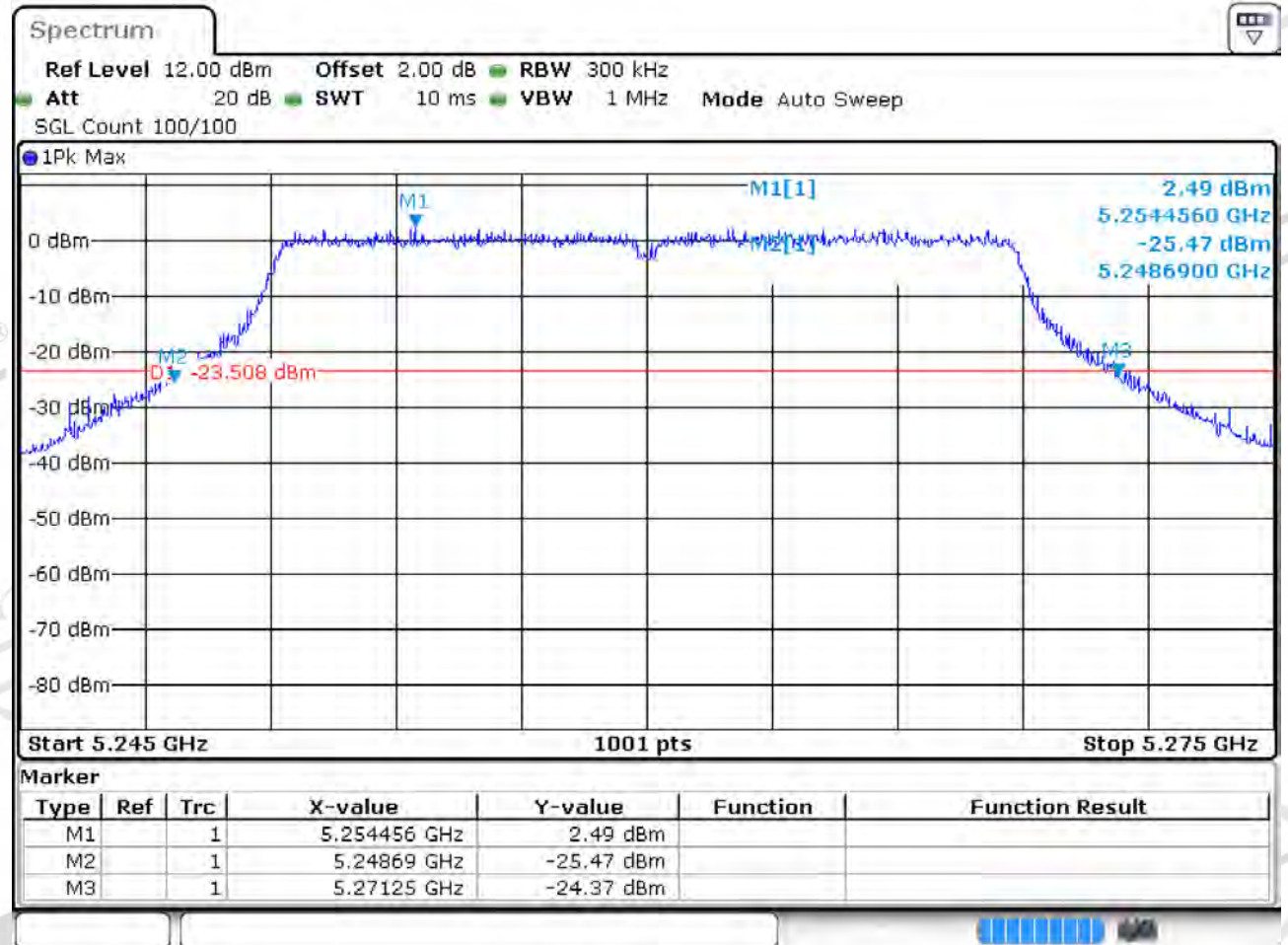
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11AC20MIMO_48 ANT 2



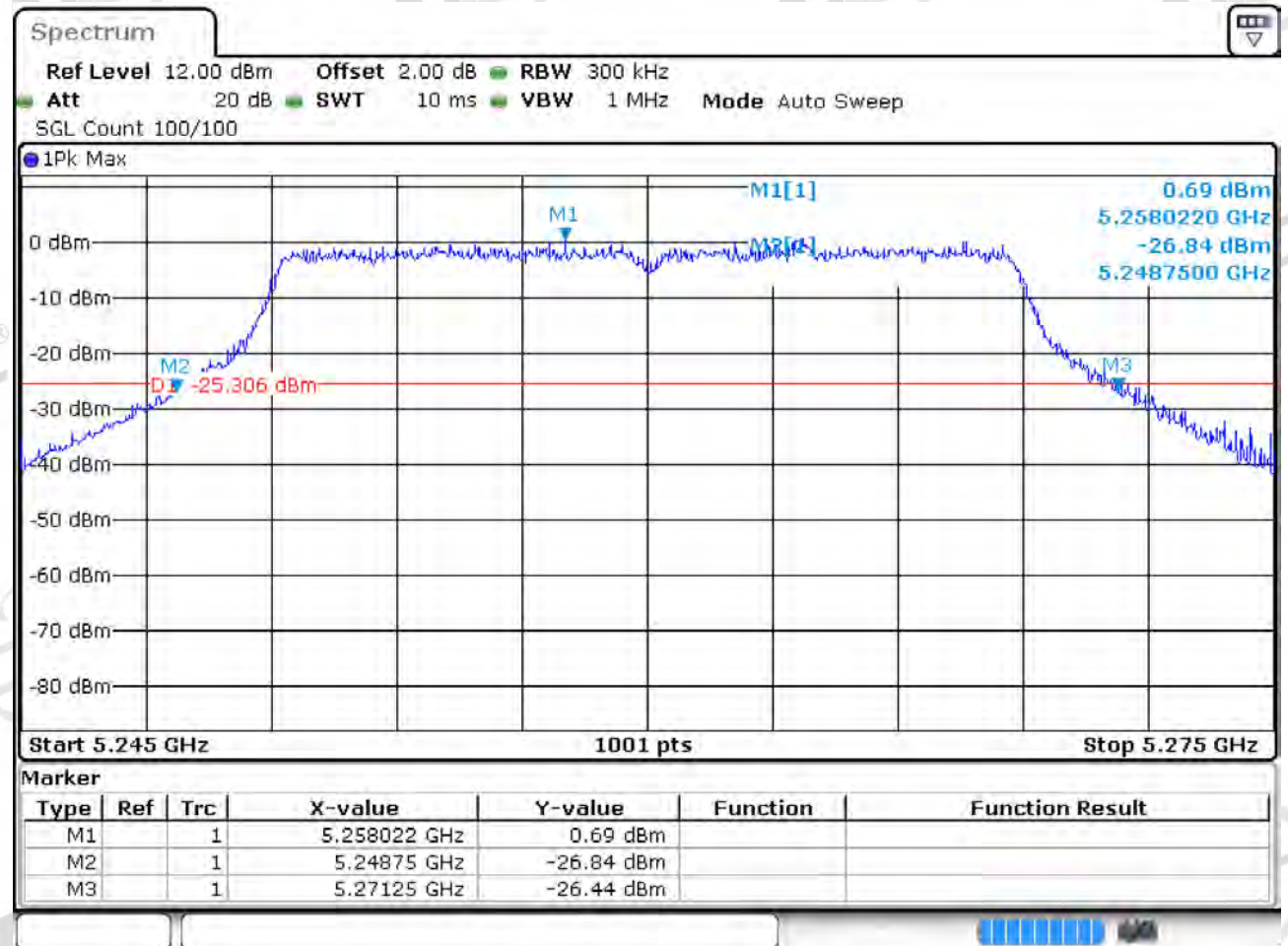
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11AC20MIMO_52 ANT 1



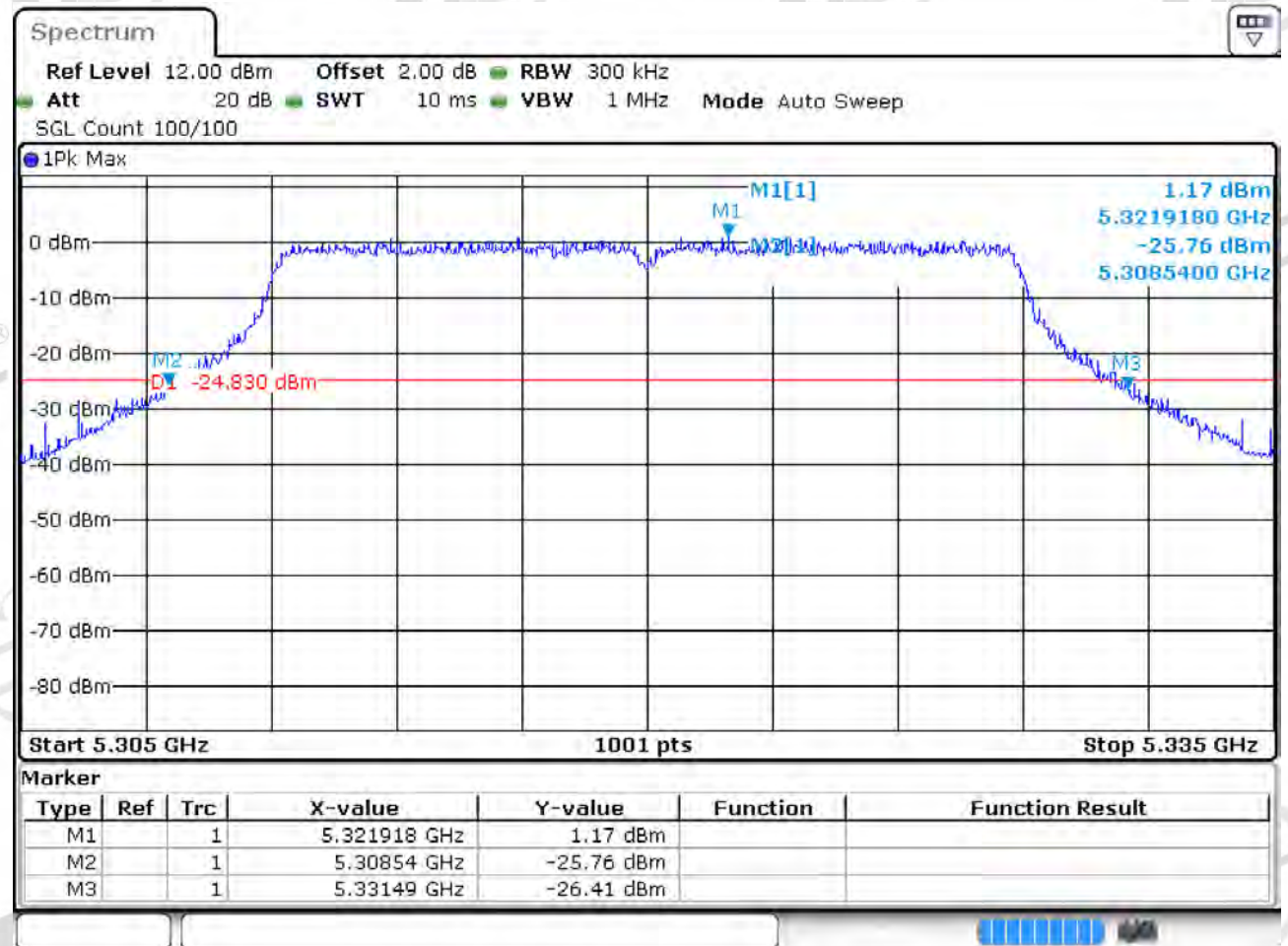
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11AC20MIMO_52 ANT 2



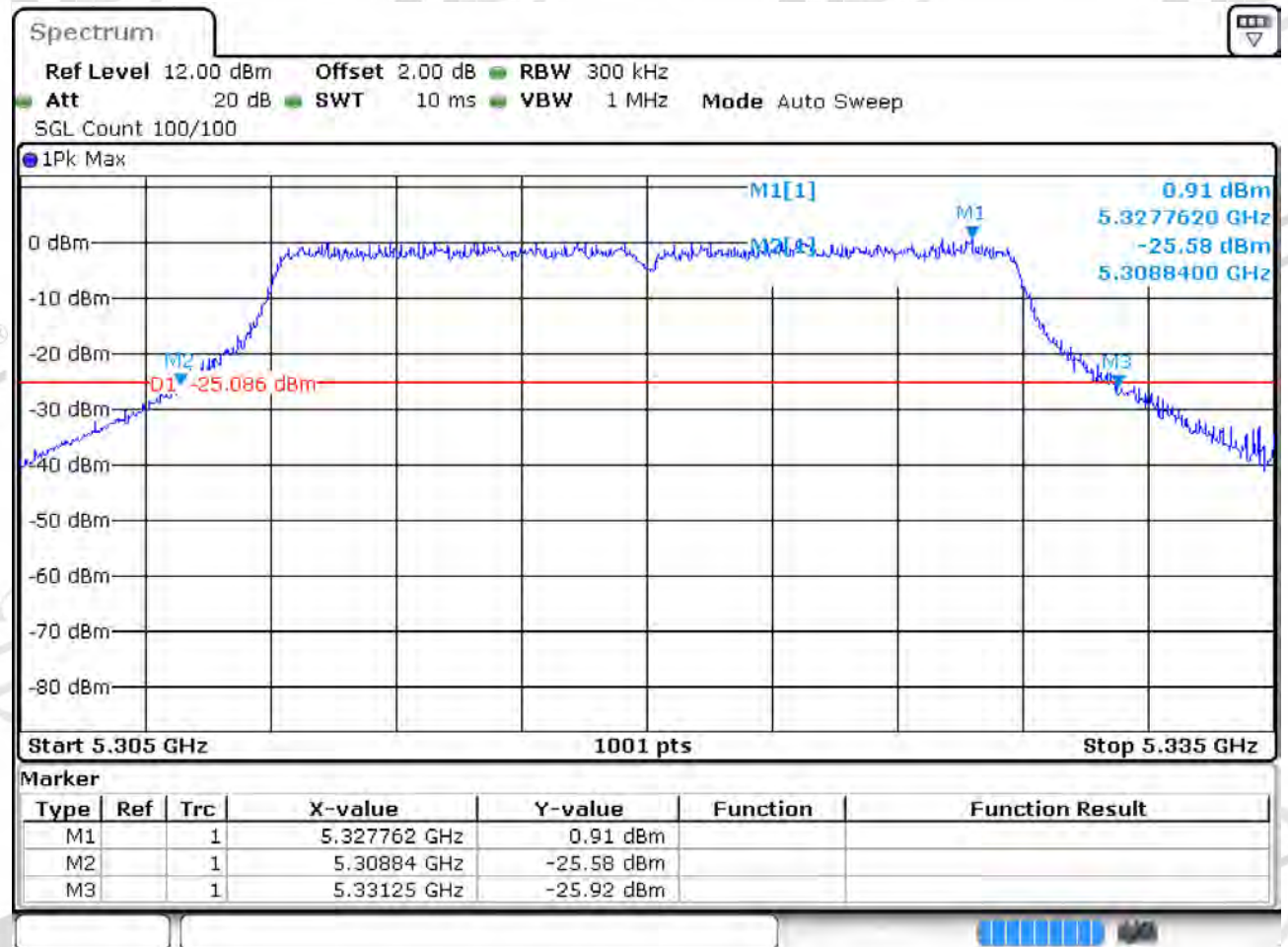
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11AC20MIMO_64 ANT 1



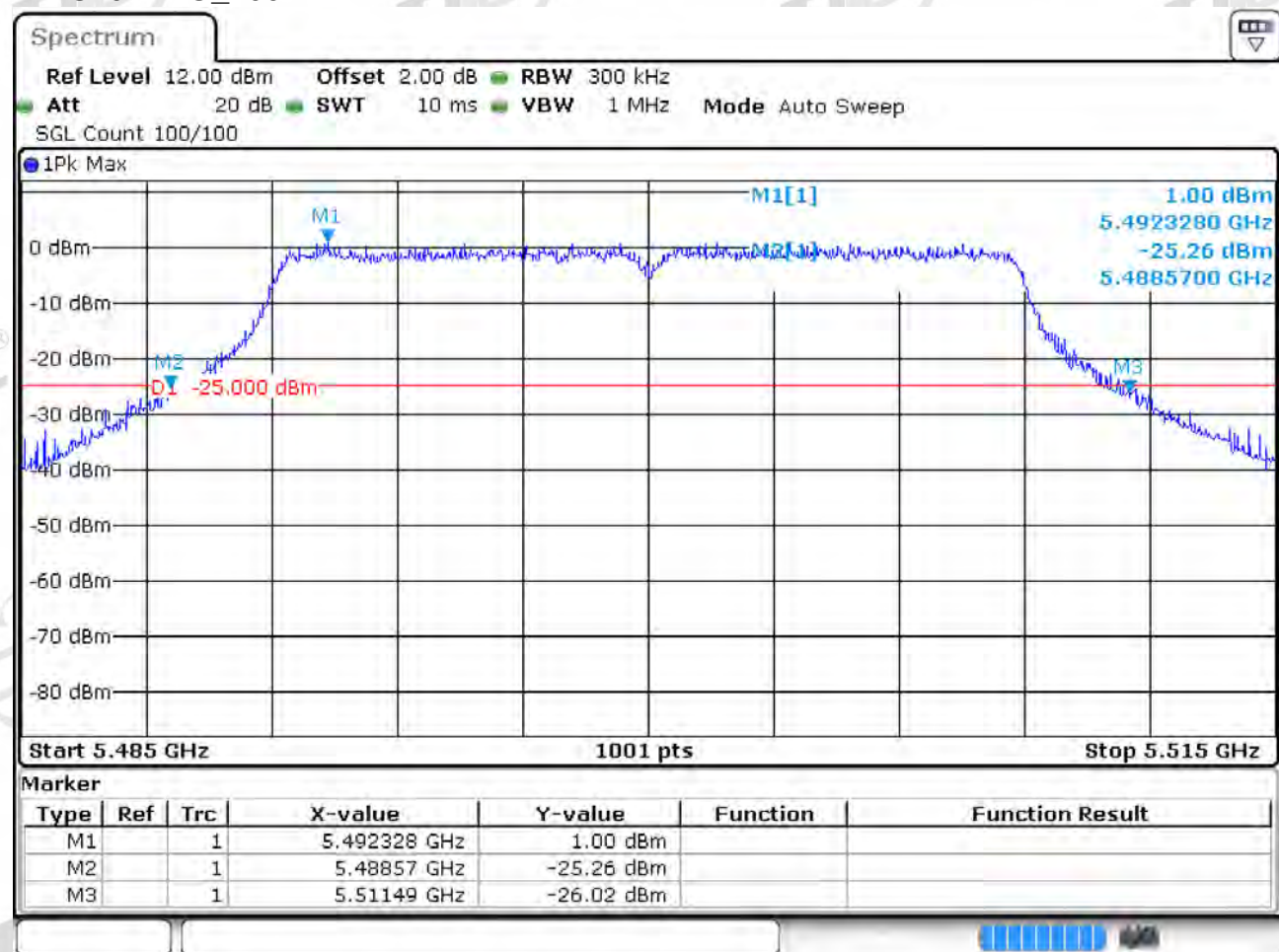
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11AC20MIMO_64 ANT 2



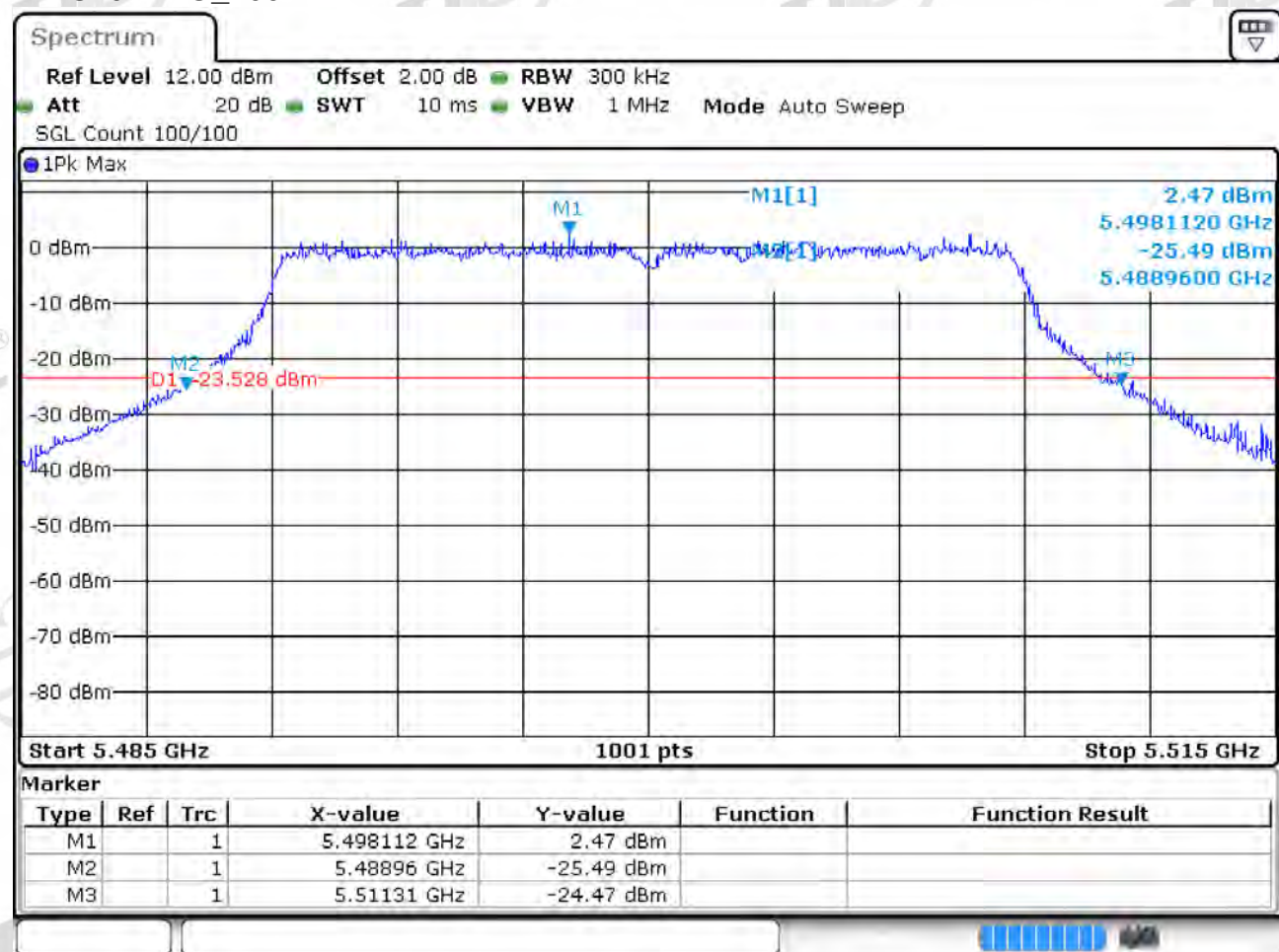
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11AC20MIMO_100 ANT 1



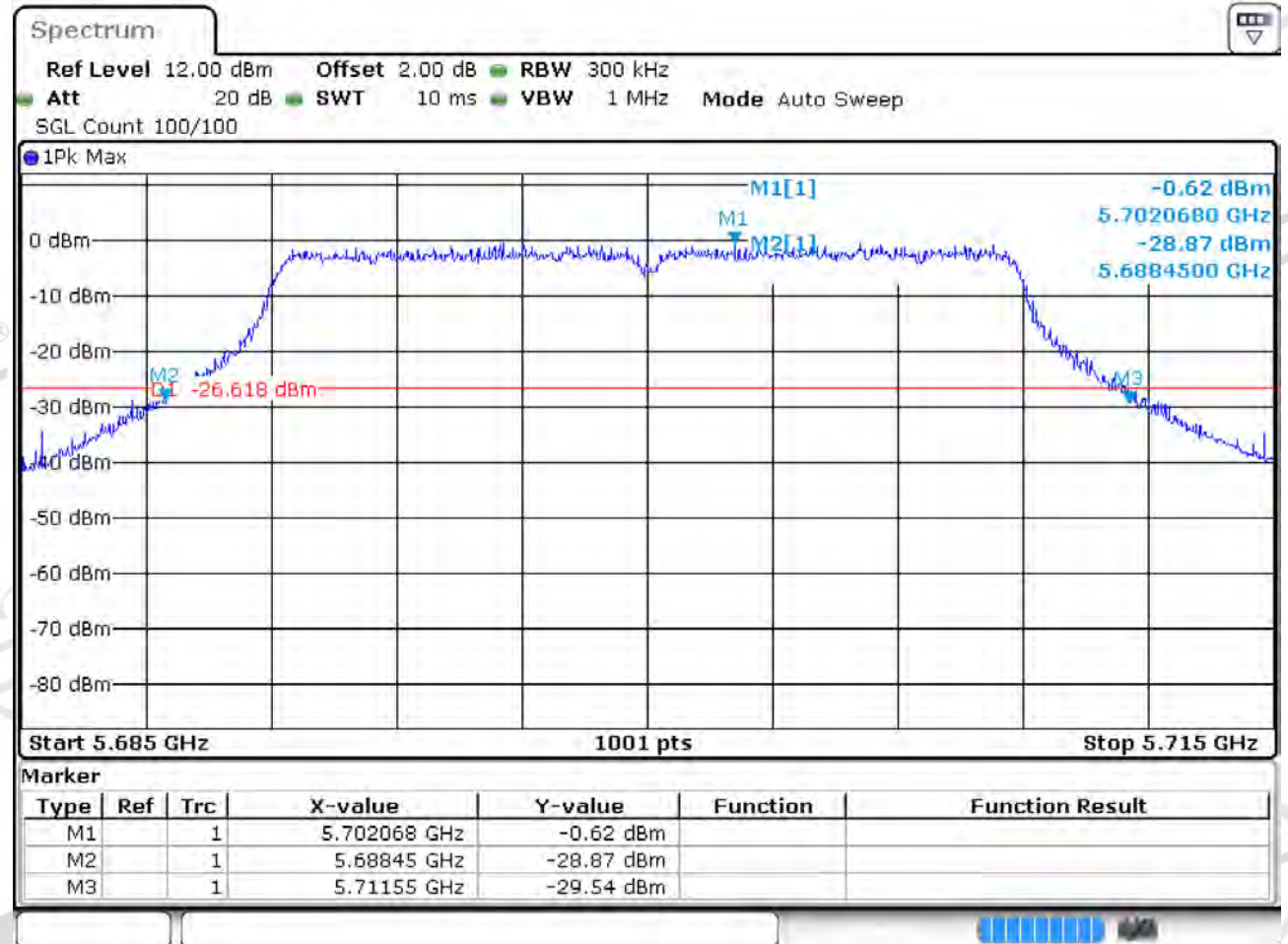
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11AC20MIMO_100 ANT 2



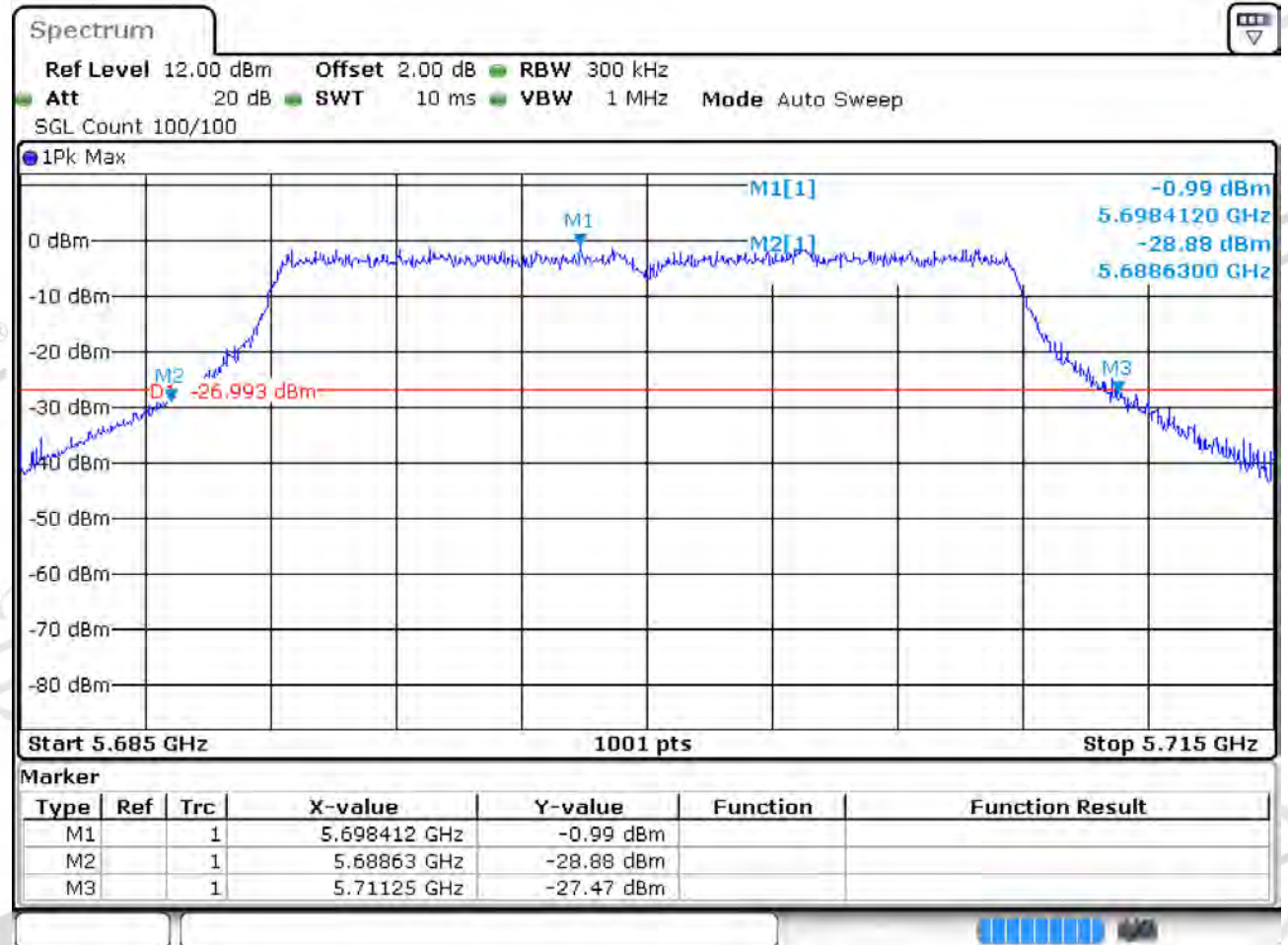
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11AC20MIMO_140 ANT 1



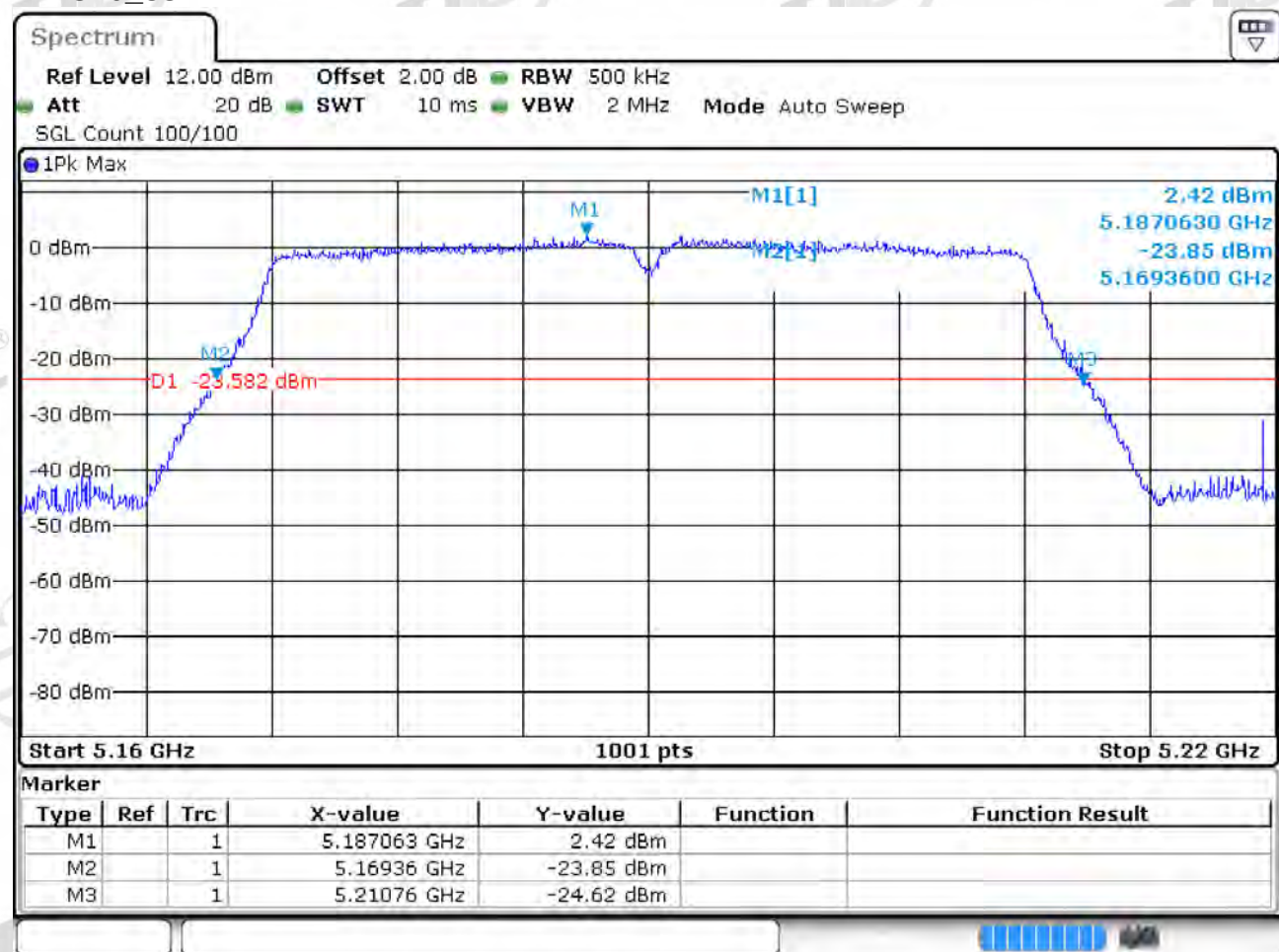
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11AC20MIMO_140 ANT 2



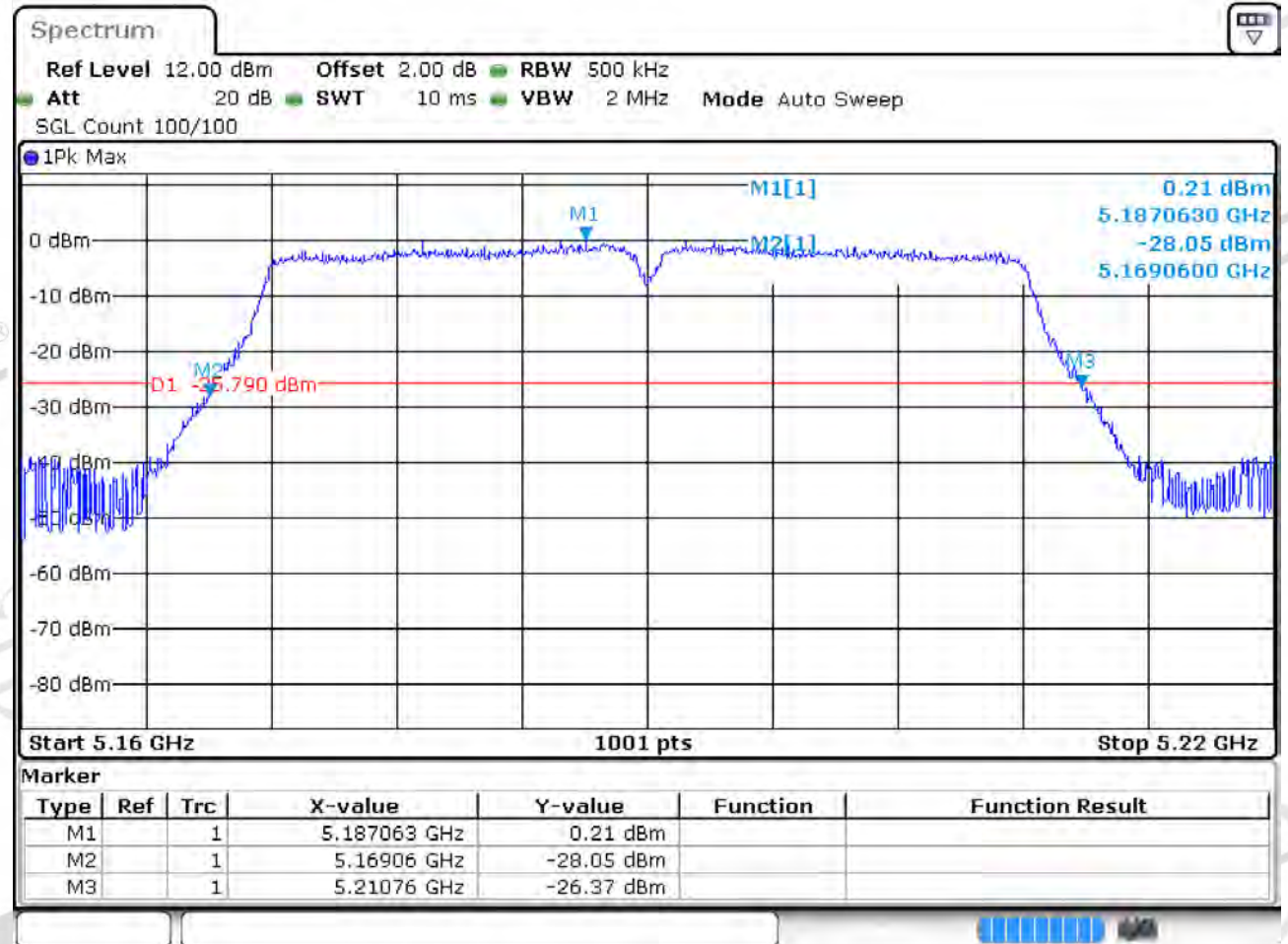
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11AC40_38 ANT 1



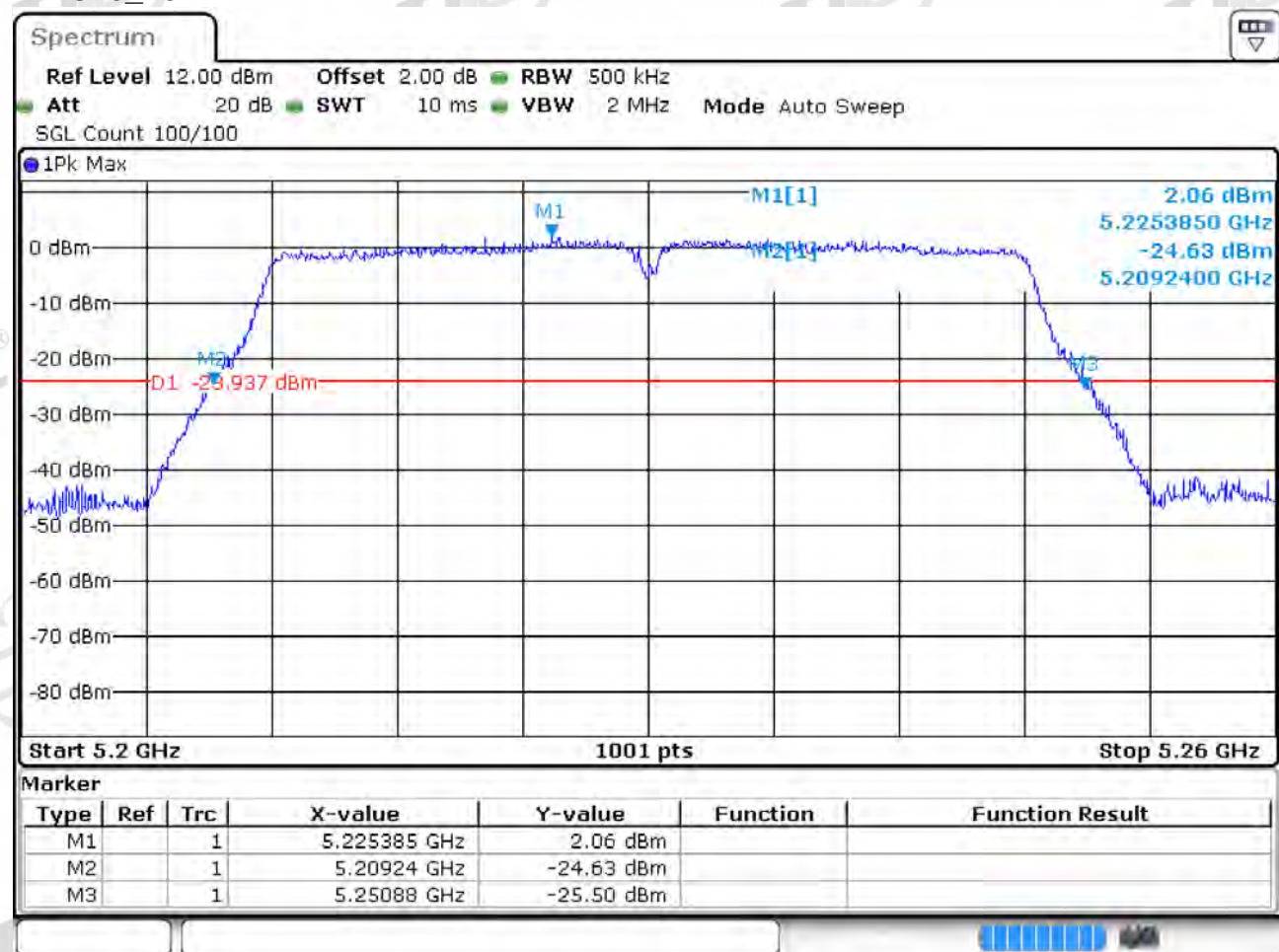
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11AC40_38 ANT 2



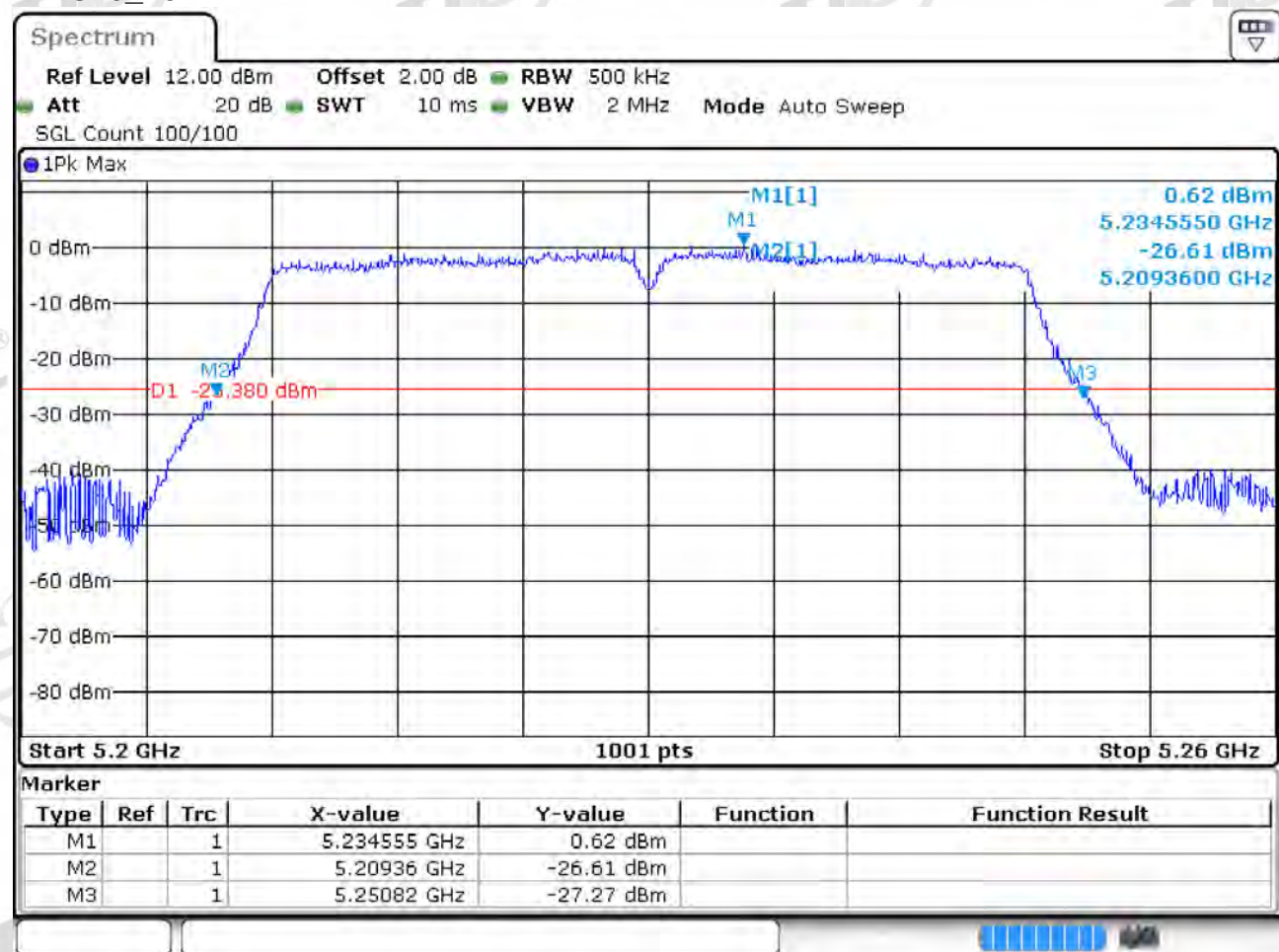
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11AC40_46 ANT 1



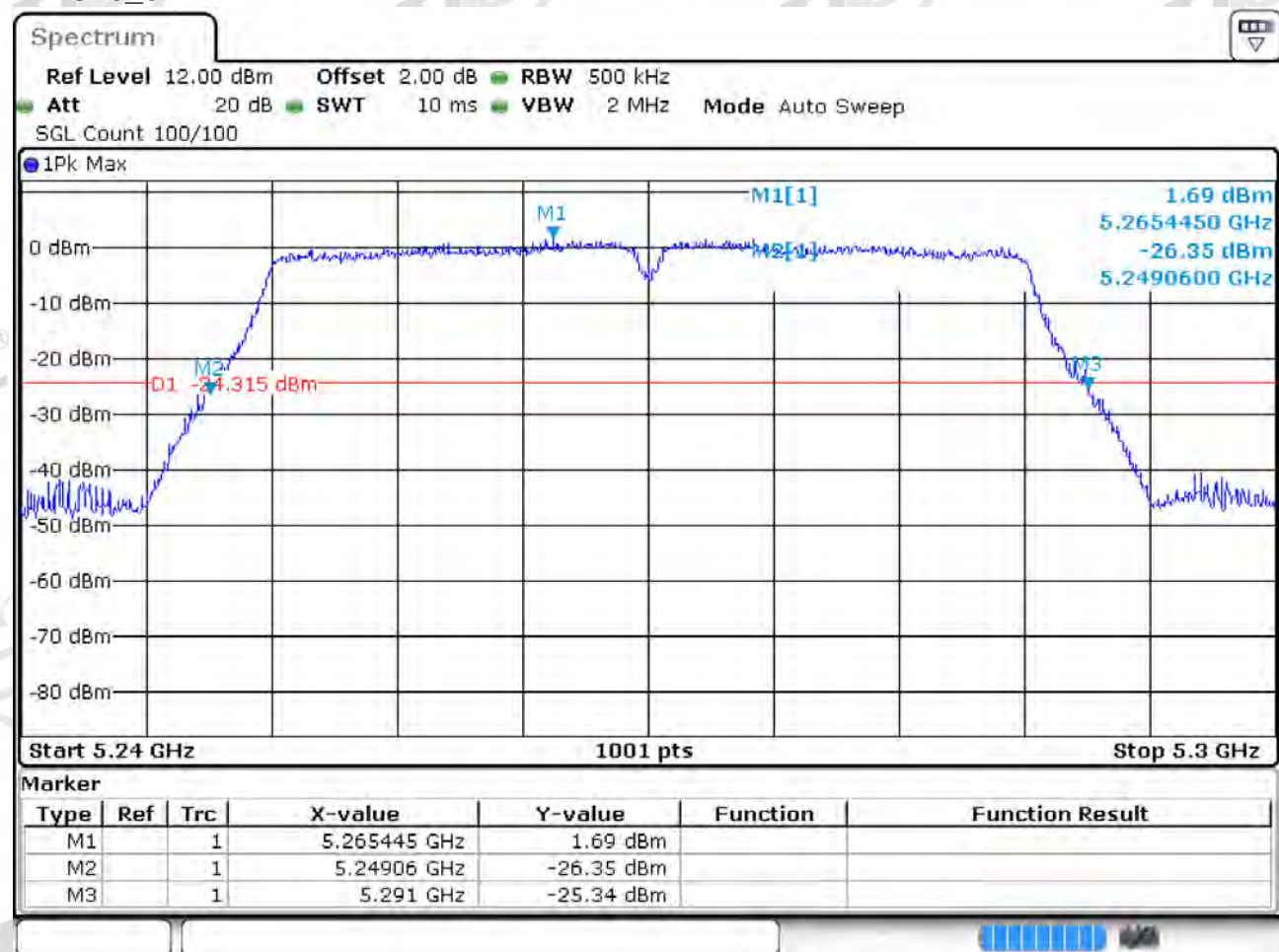
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11AC40_46 ANT 2



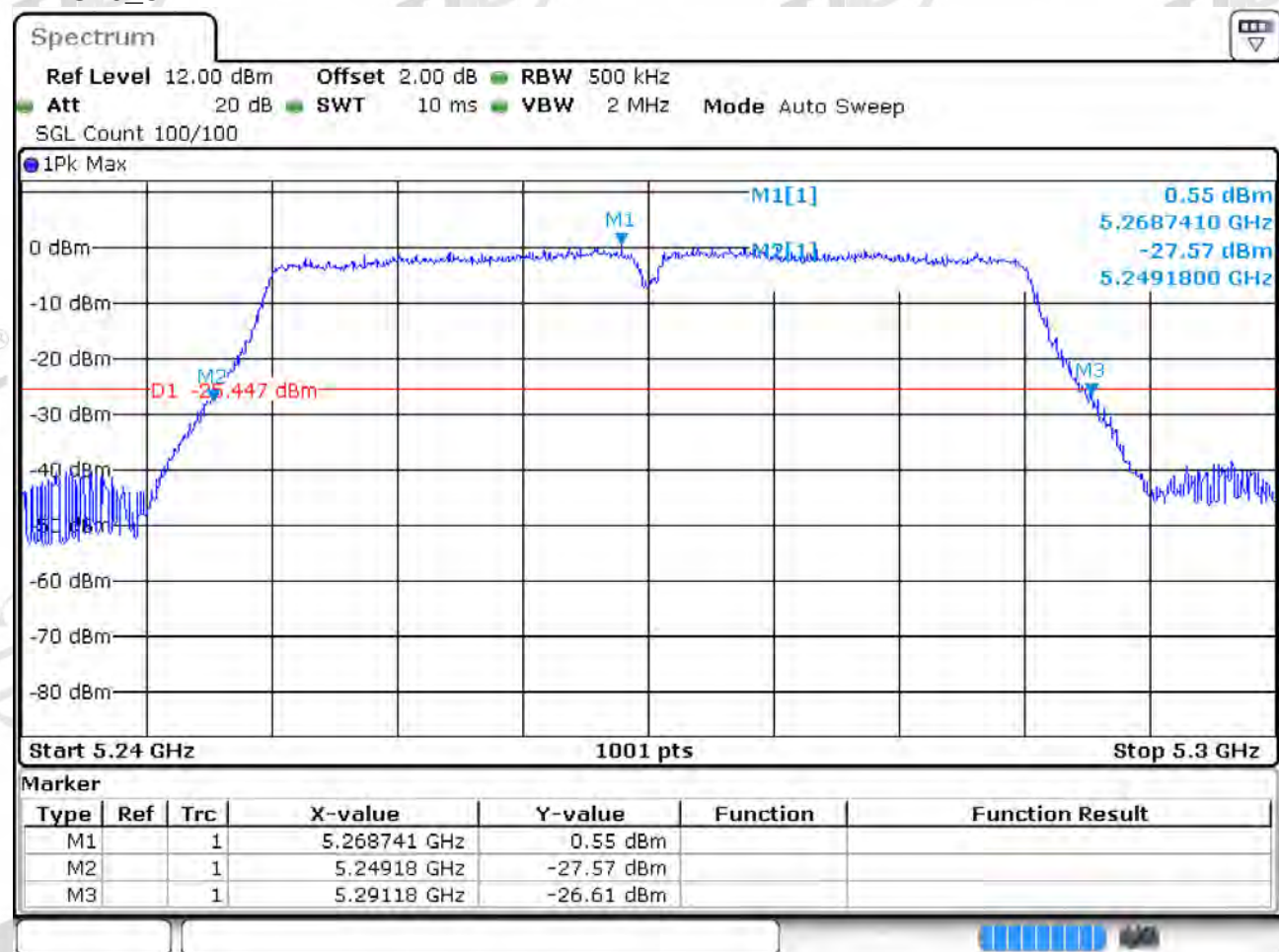
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11AC40_54 ANT 1



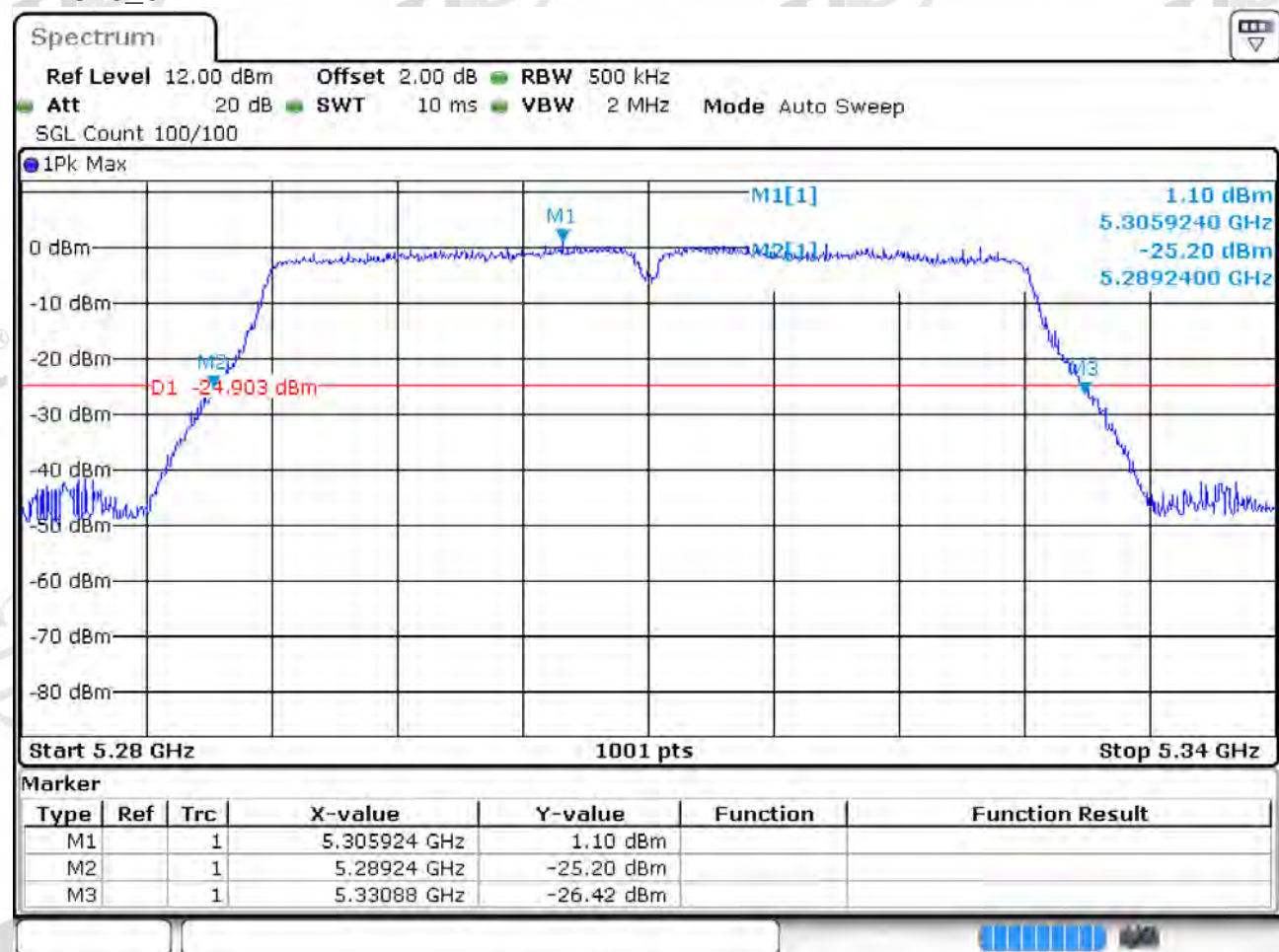
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11AC40_54 ANT 2



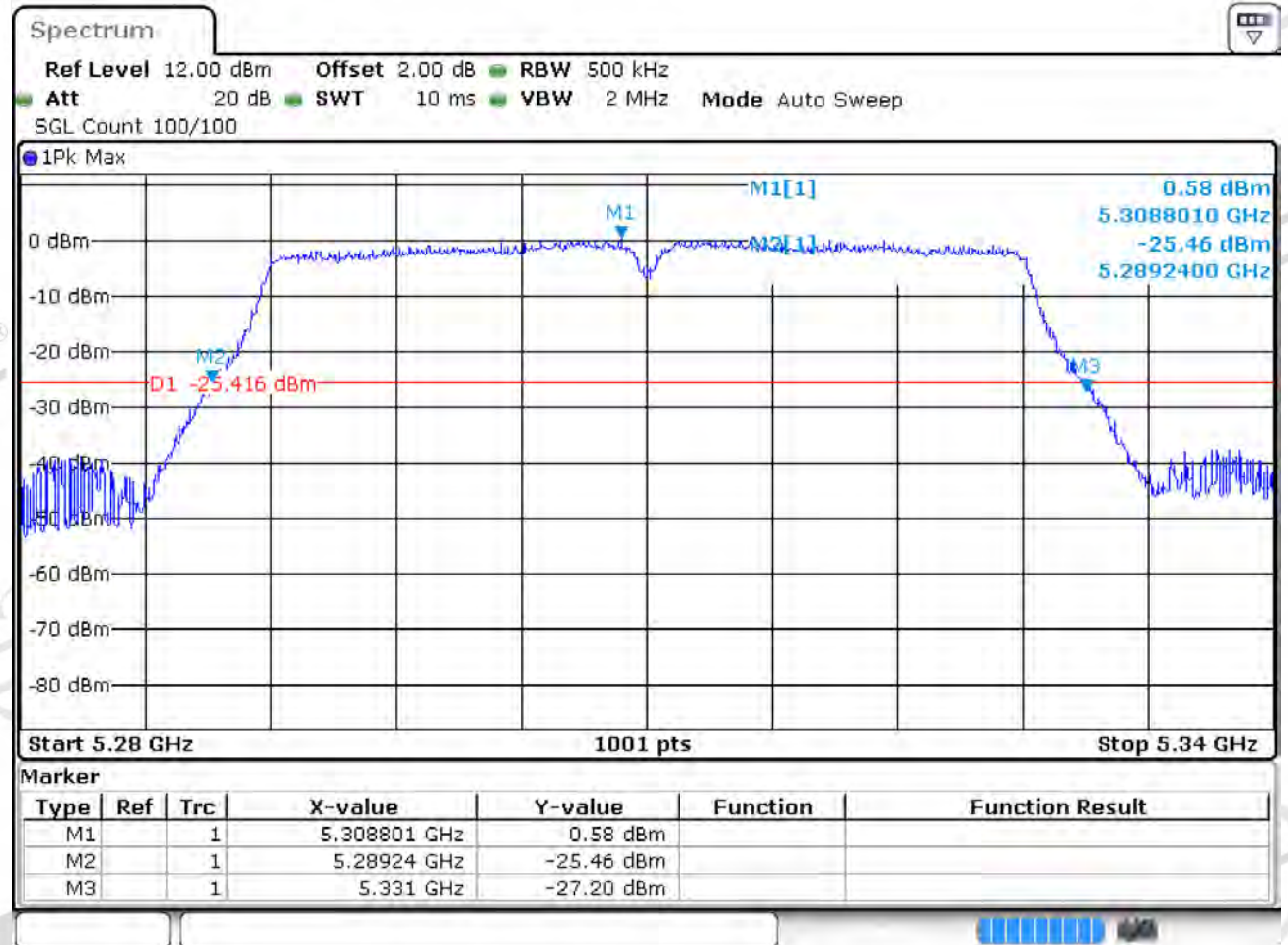
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11AC40_62 ANT 1



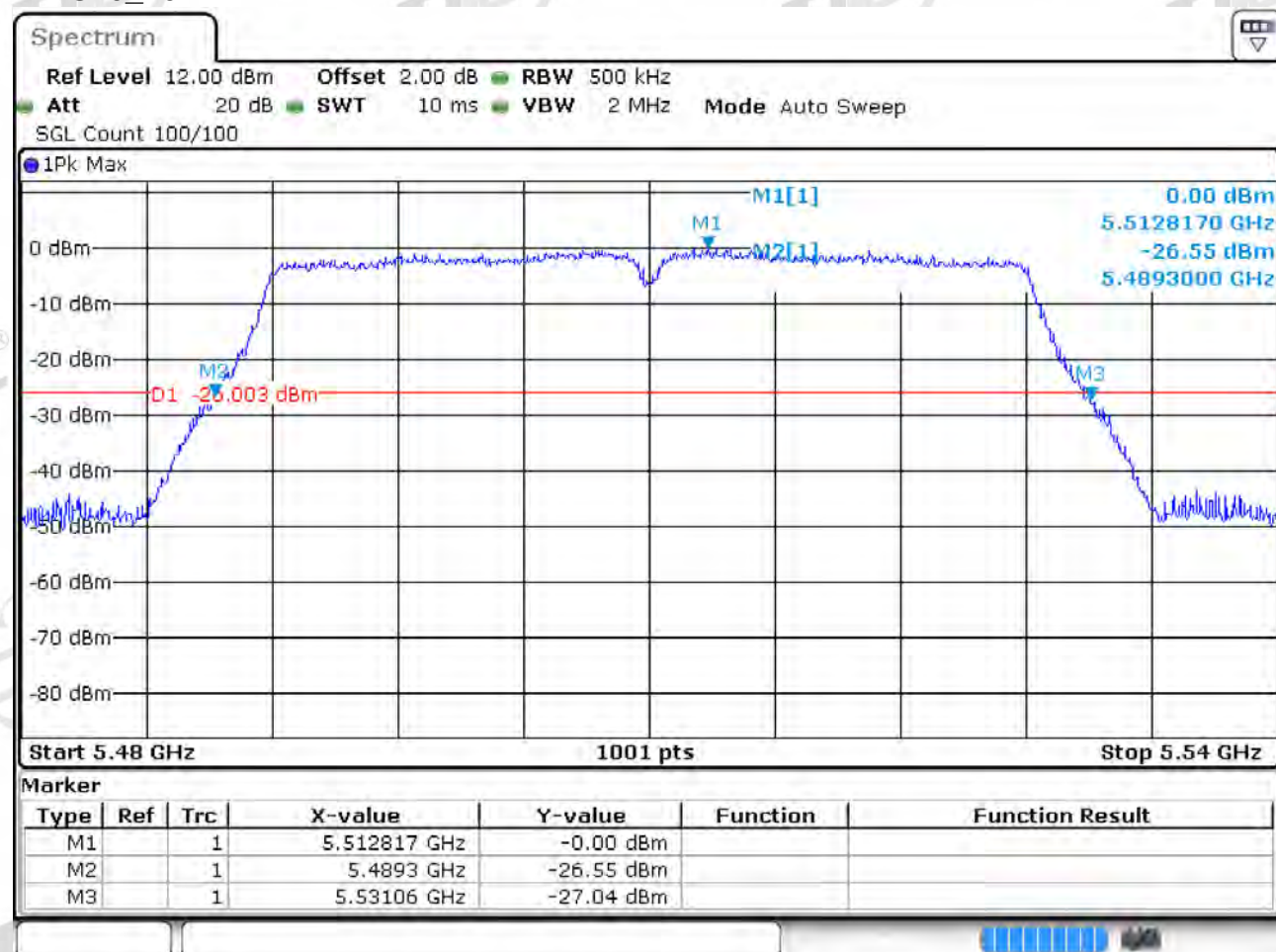
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11AC40_62 ANT 2



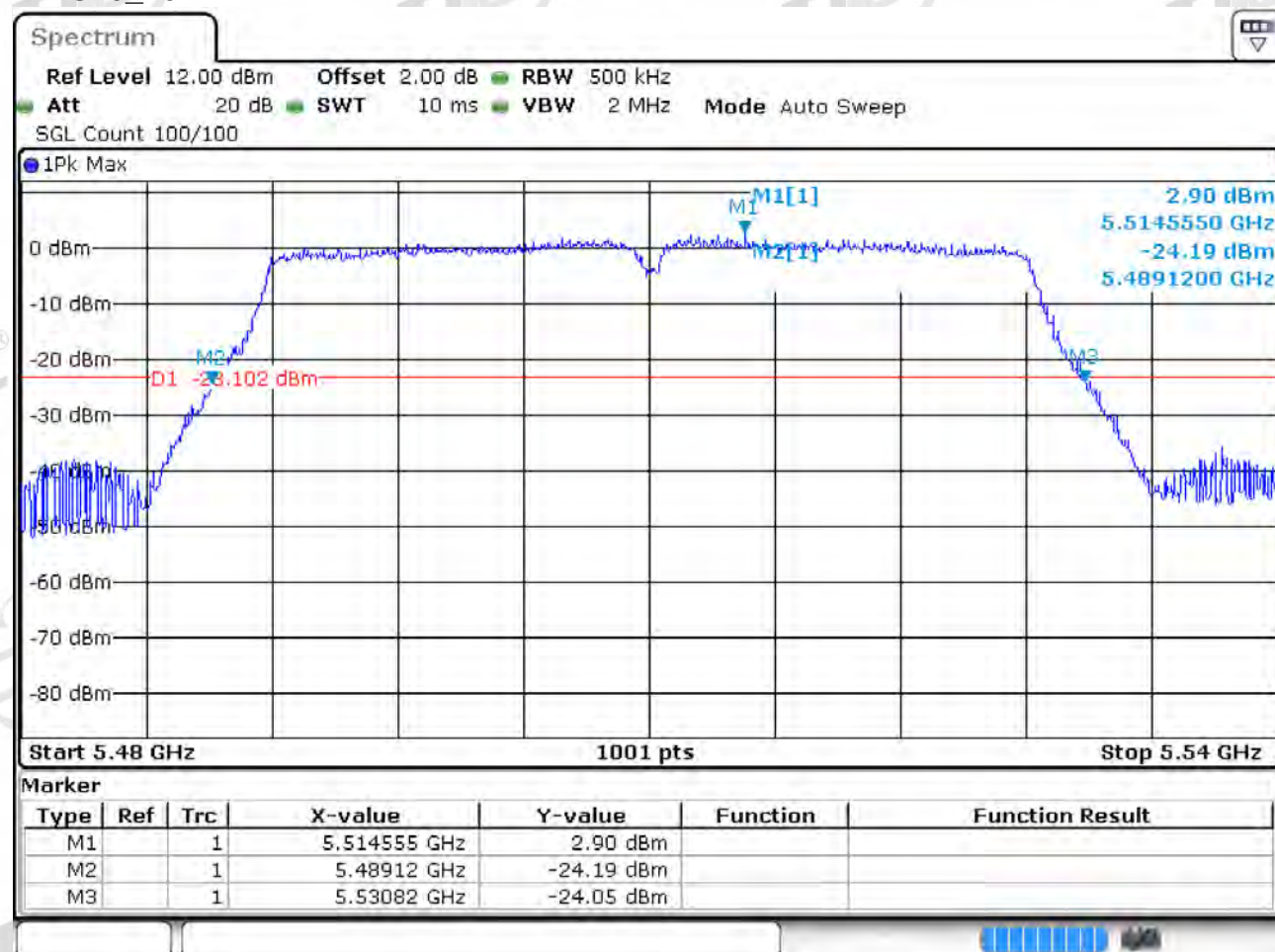
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11AC40_102 ANT 1



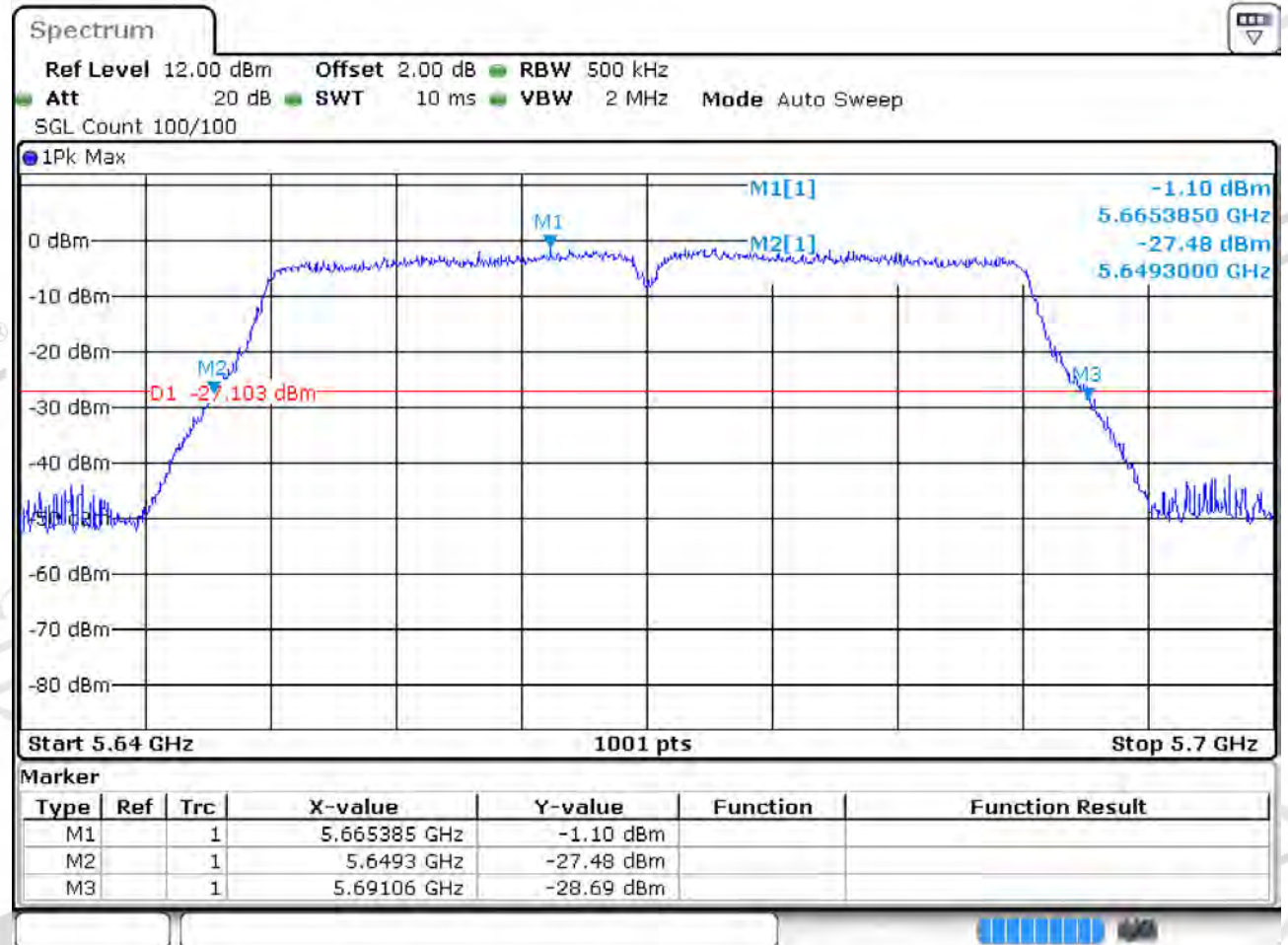
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11AC40_102 ANT 2



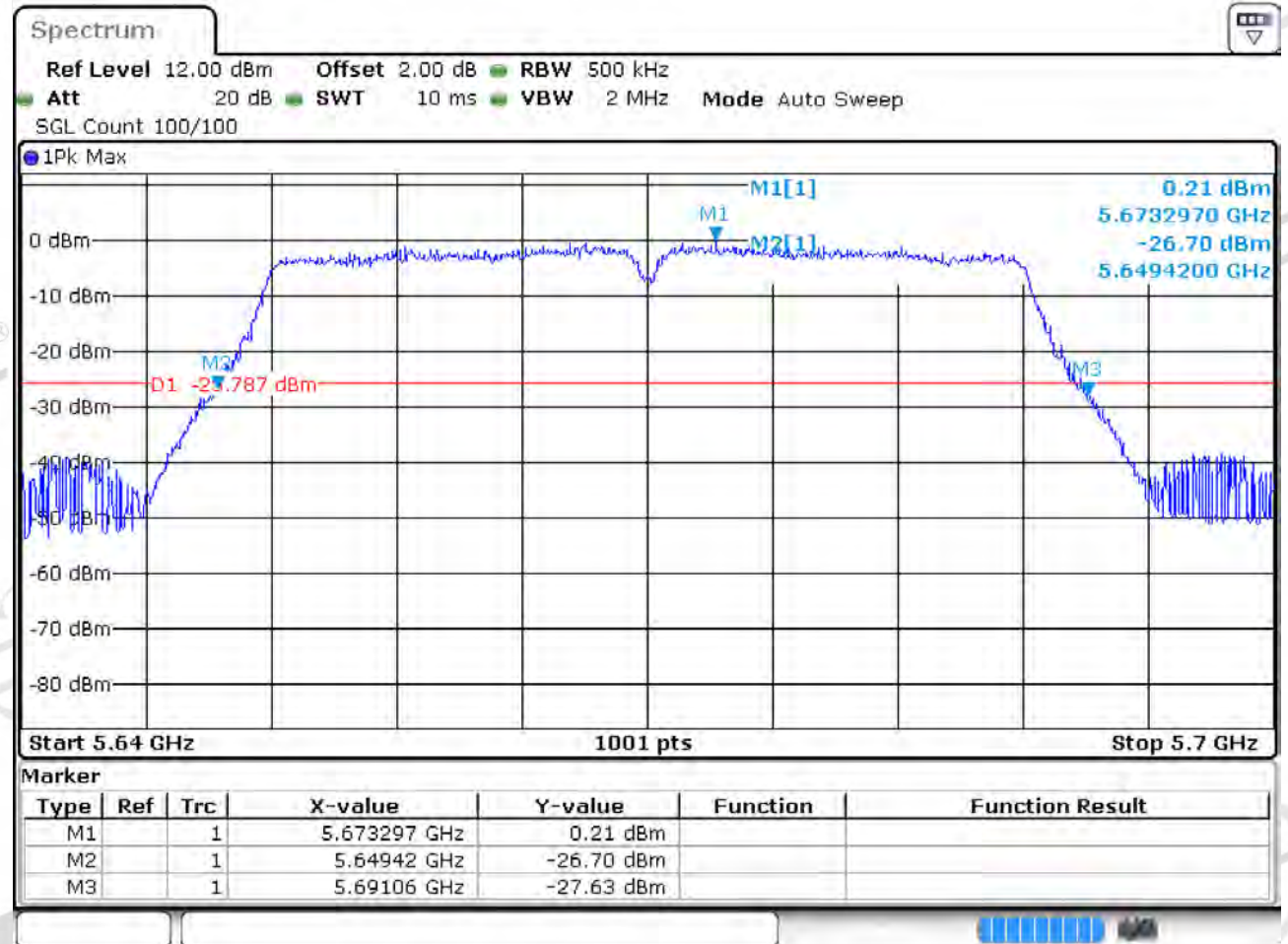
Date: 30 JUL 2019 03:38:59

11AC40_134 ANT 1



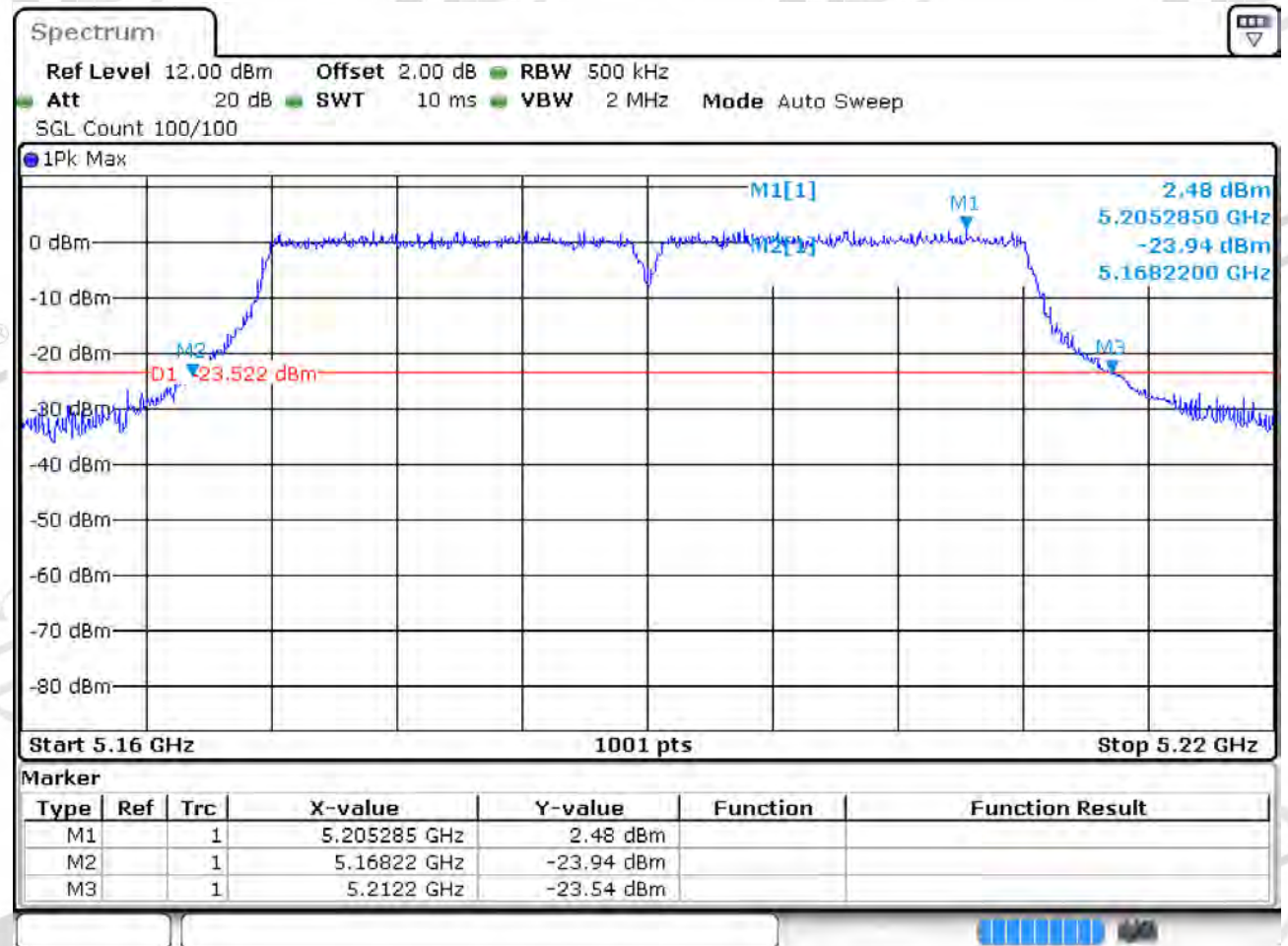
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11AC40_134 ANT 2



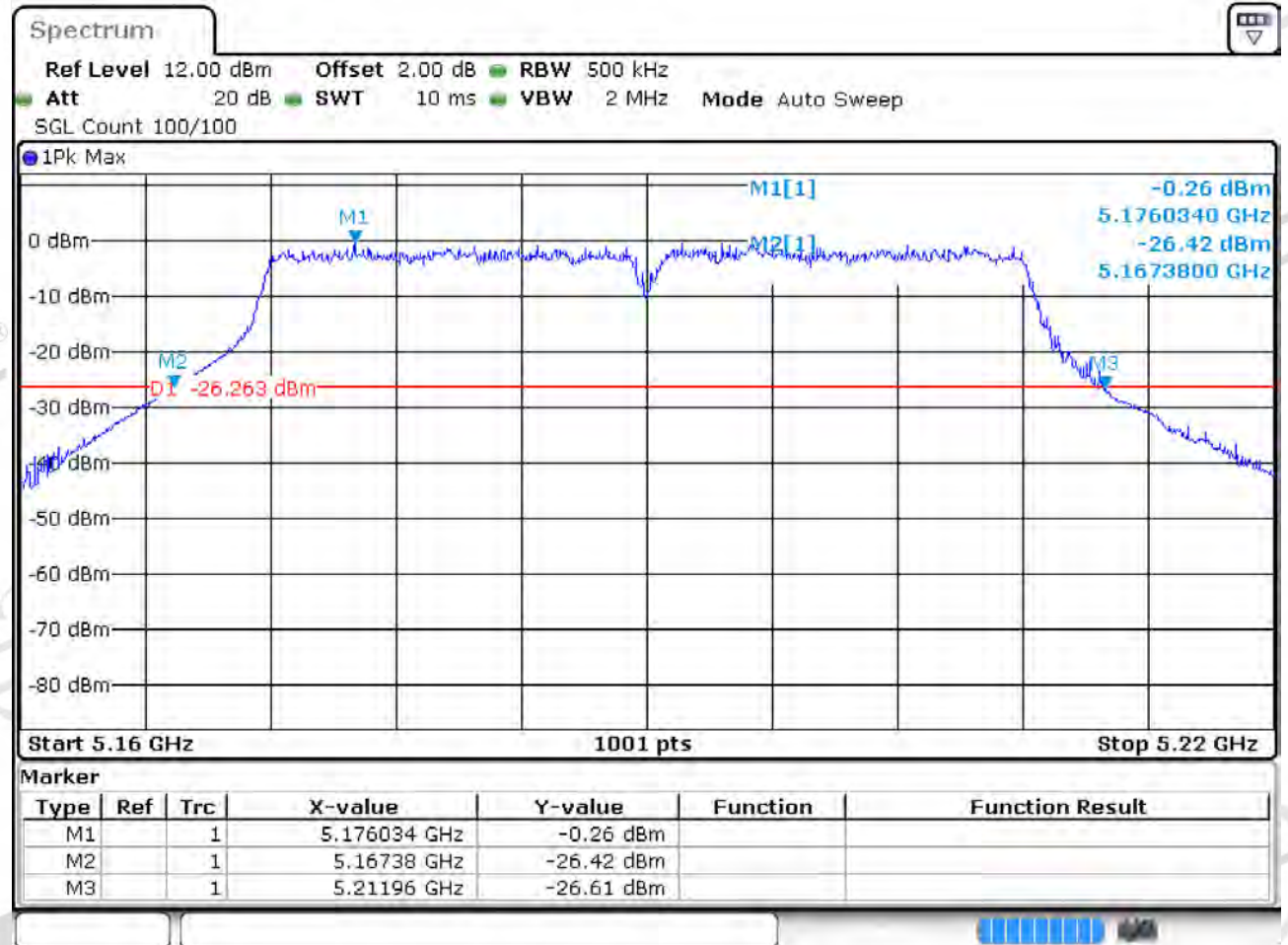
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11AC40MIMO_38 ANT 1



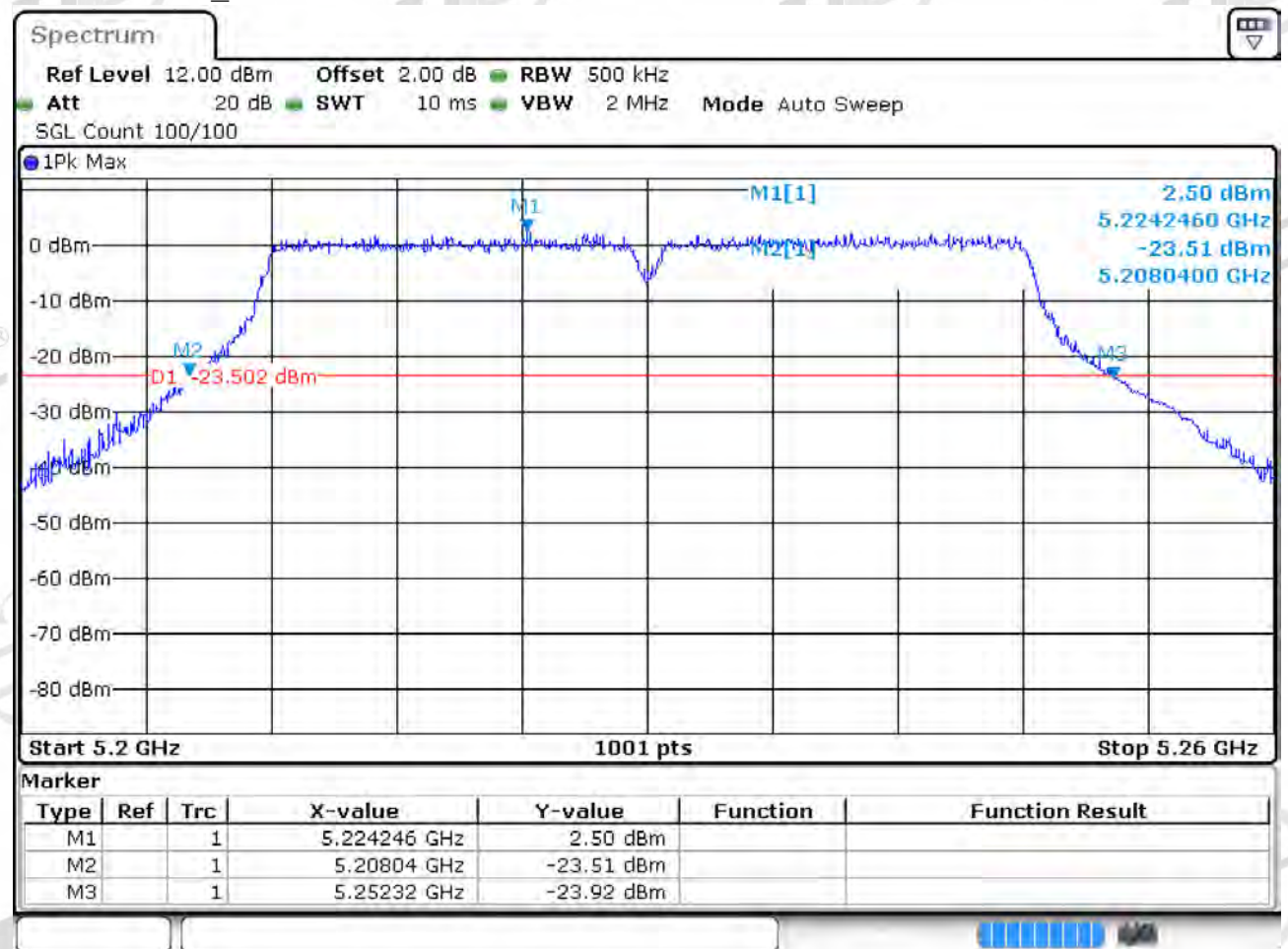
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11AC40MIMO_38 ANT 2



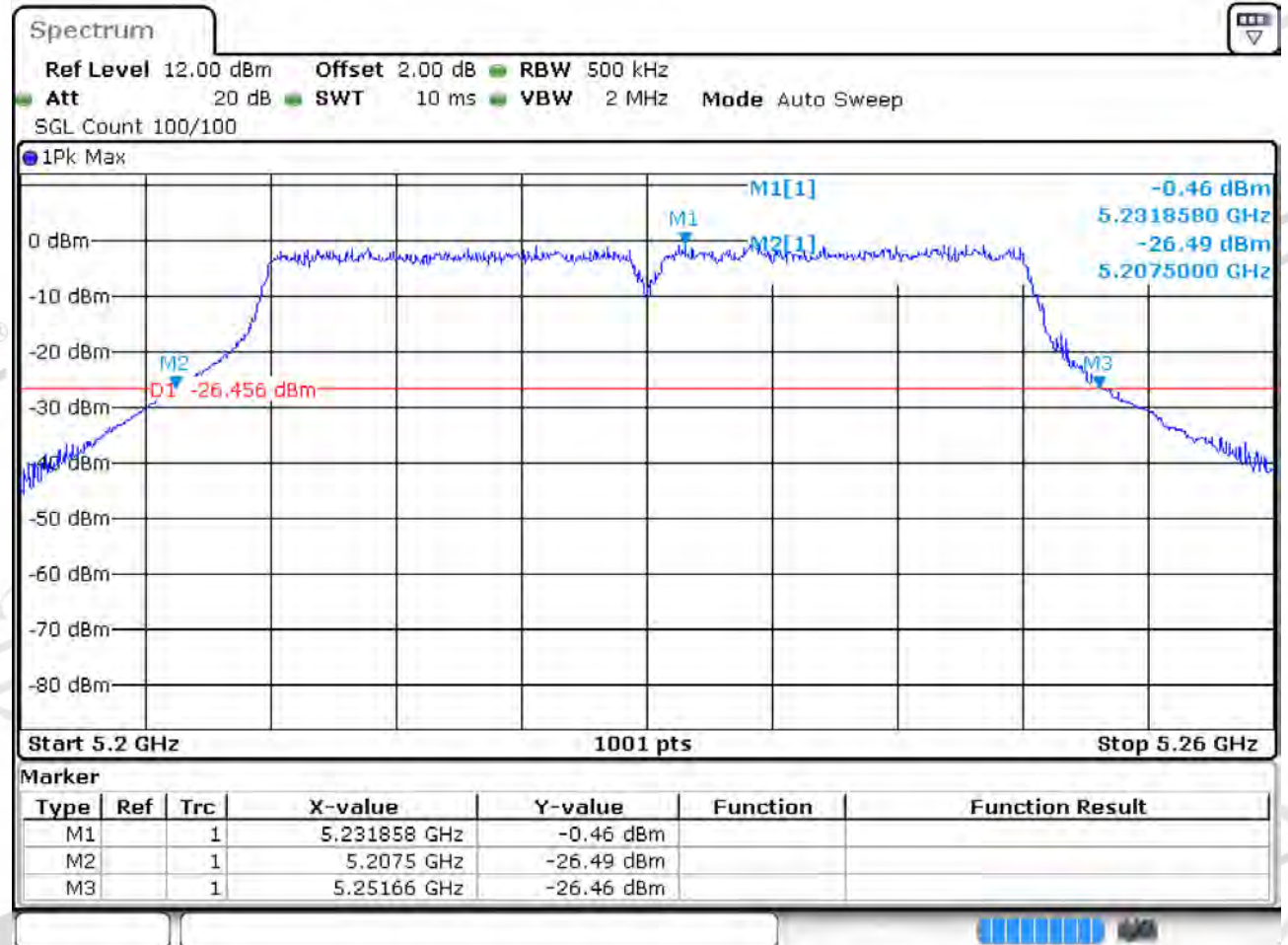
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11AC40MIMO_46 ANT 1



Date: 30 JUL 2019 20:38:24

11AC40MIMO_46 ANT 2



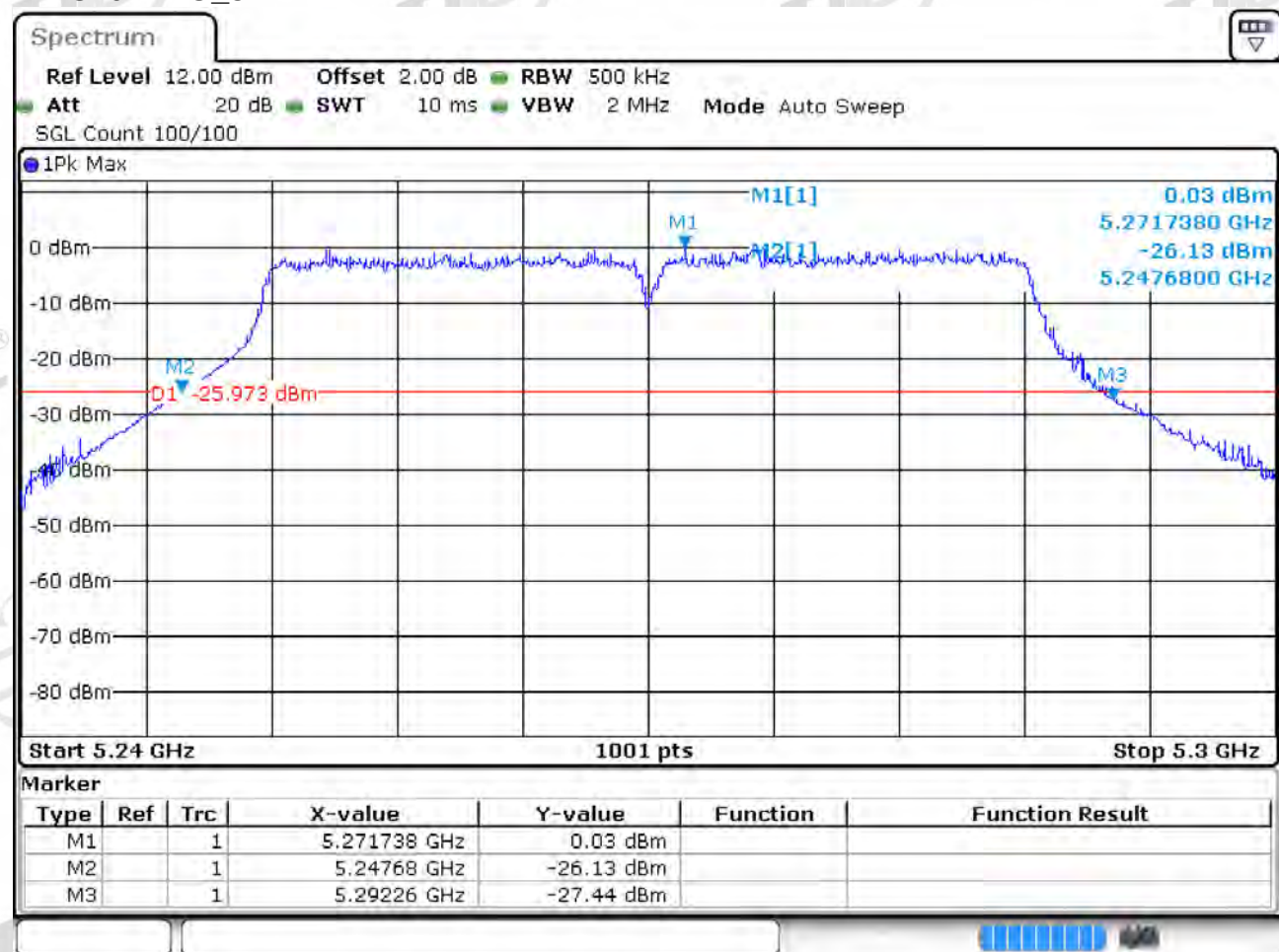
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11AC40MIMO_54 ANT 1



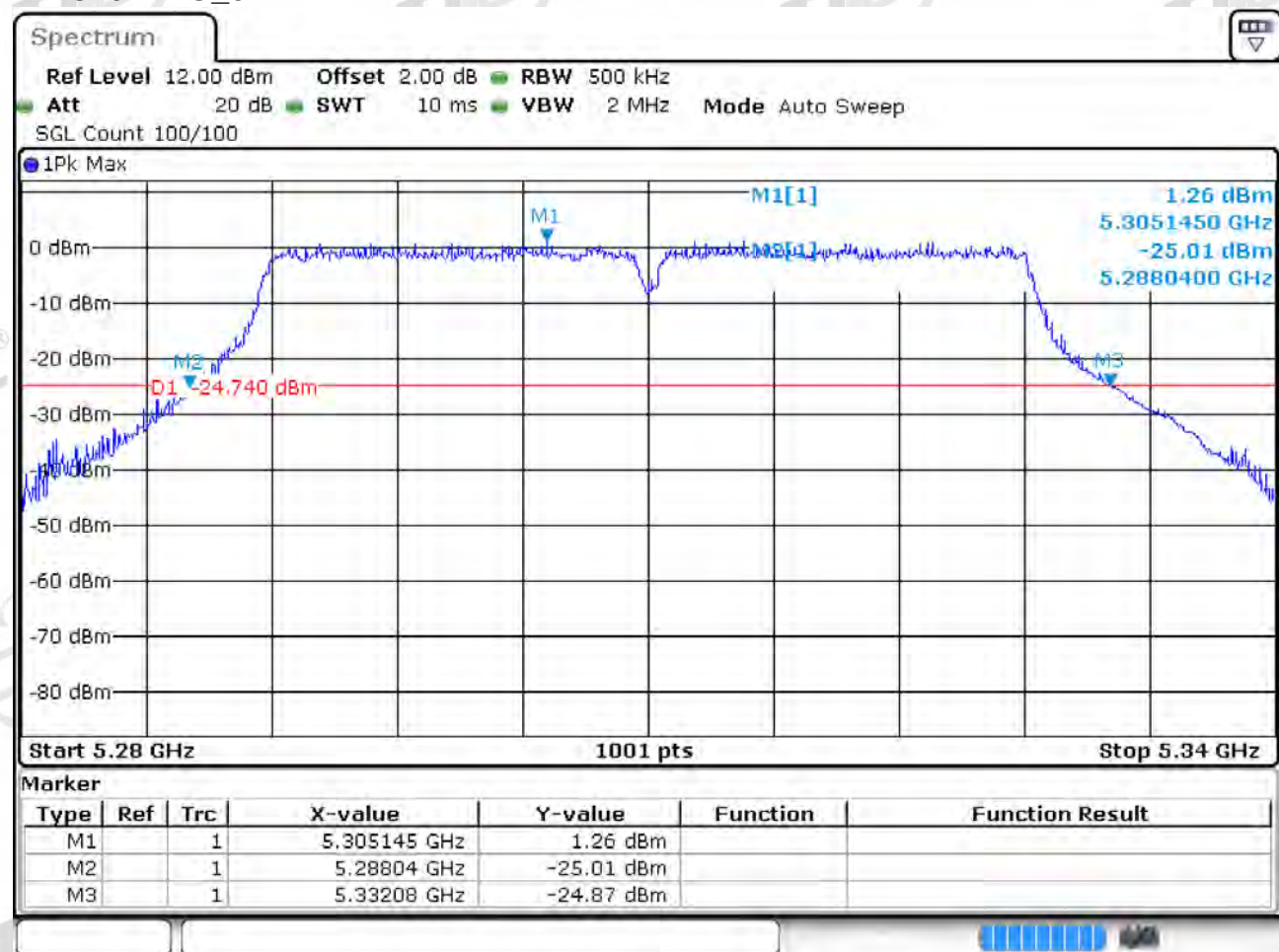
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11AC40MIMO_54 ANT 2



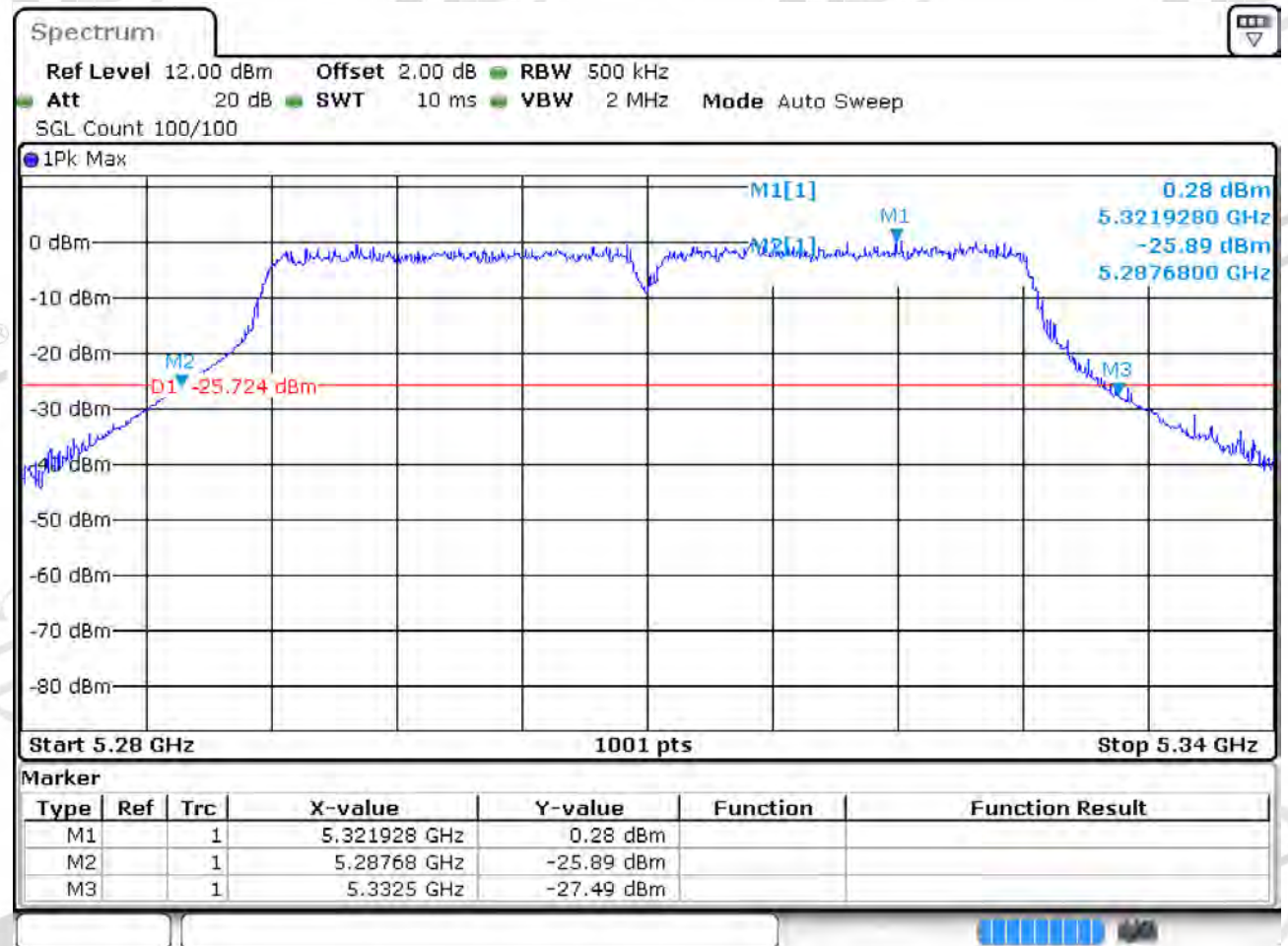
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11AC40MIMO_62 ANT 1



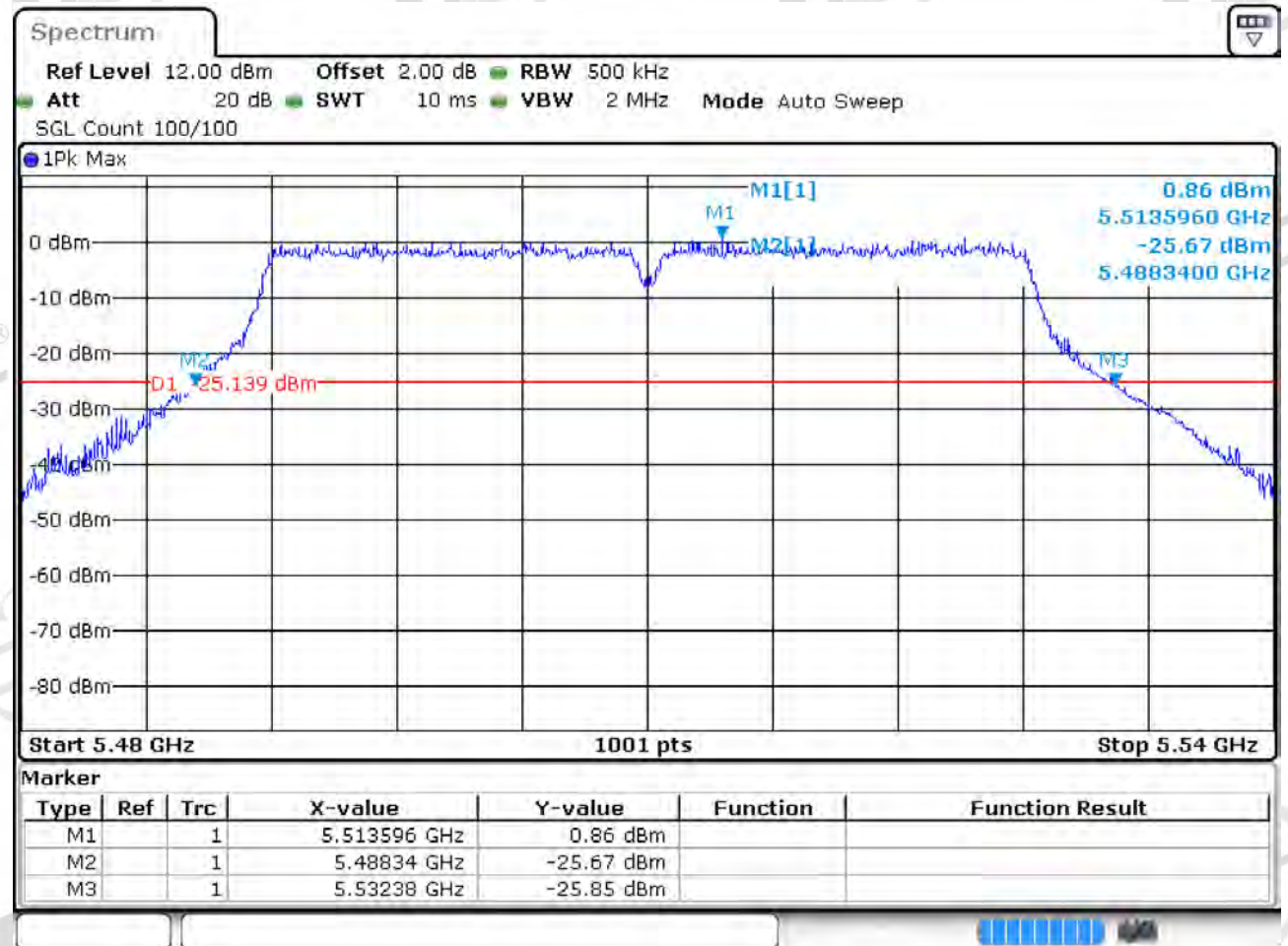
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11AC40MIMO_62 ANT 2



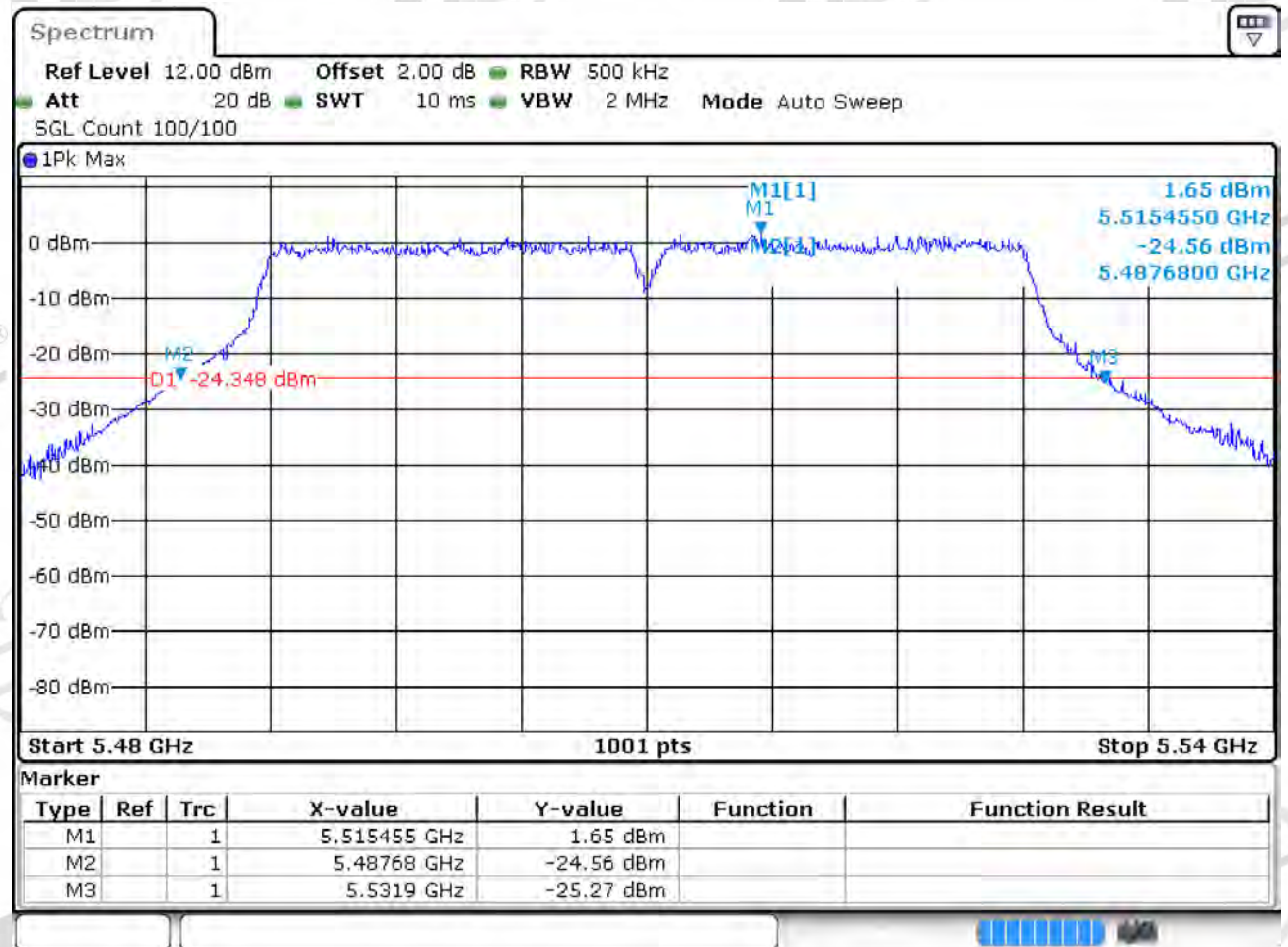
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11AC40MIMO_102 ANT 1



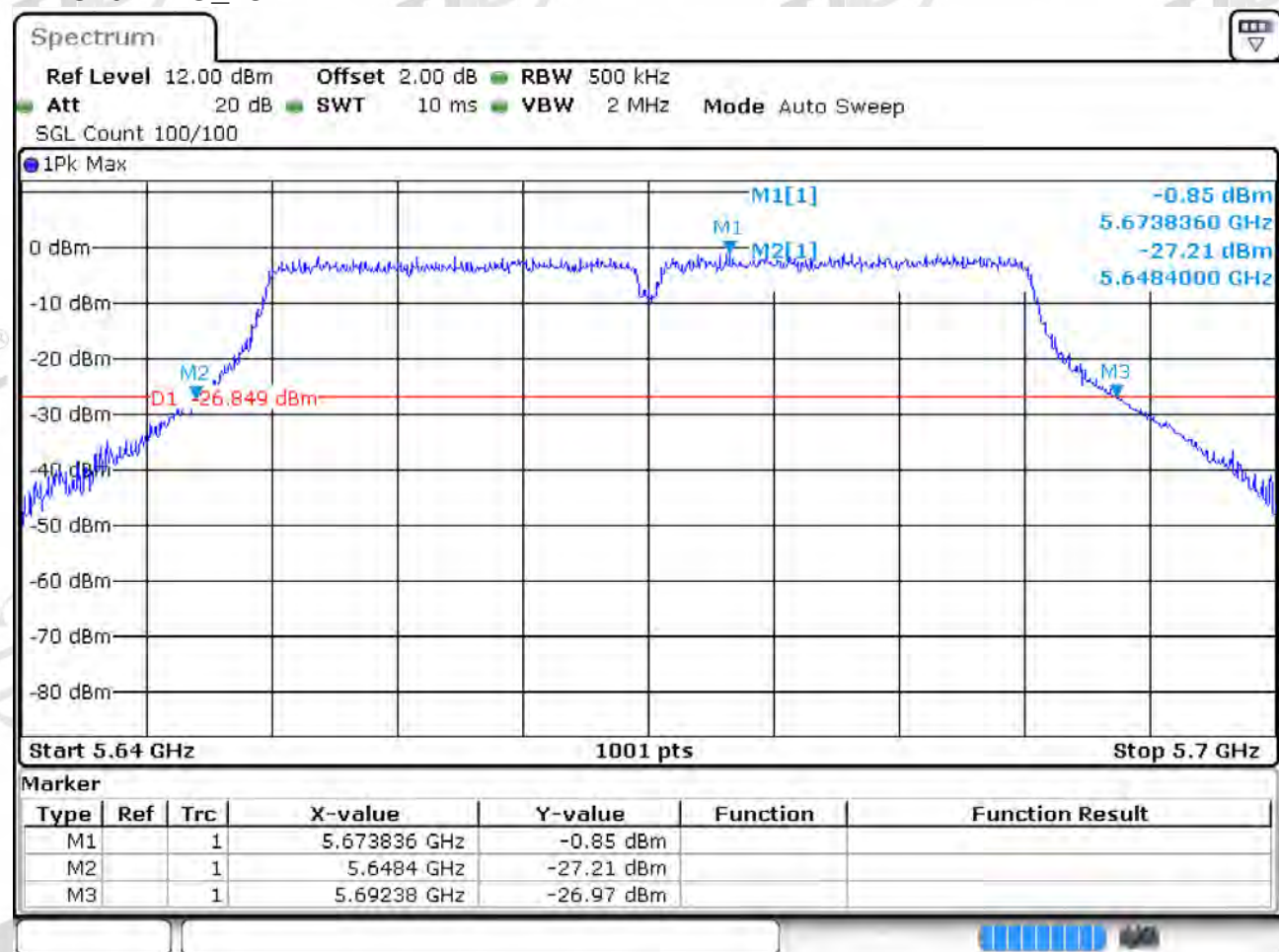
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11AC40MIMO_102 ANT 2



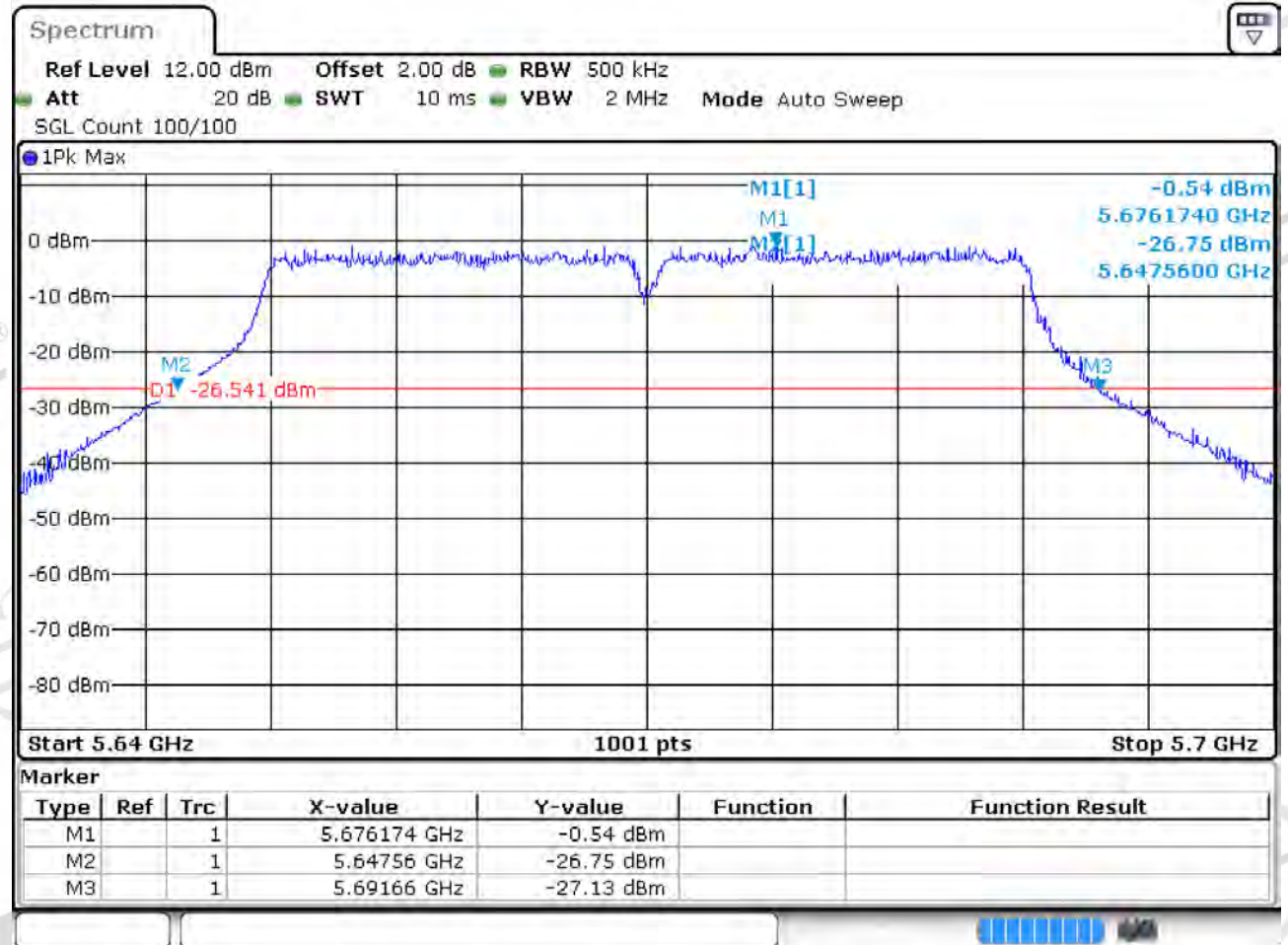
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11AC40MIMO_134 ANT 1



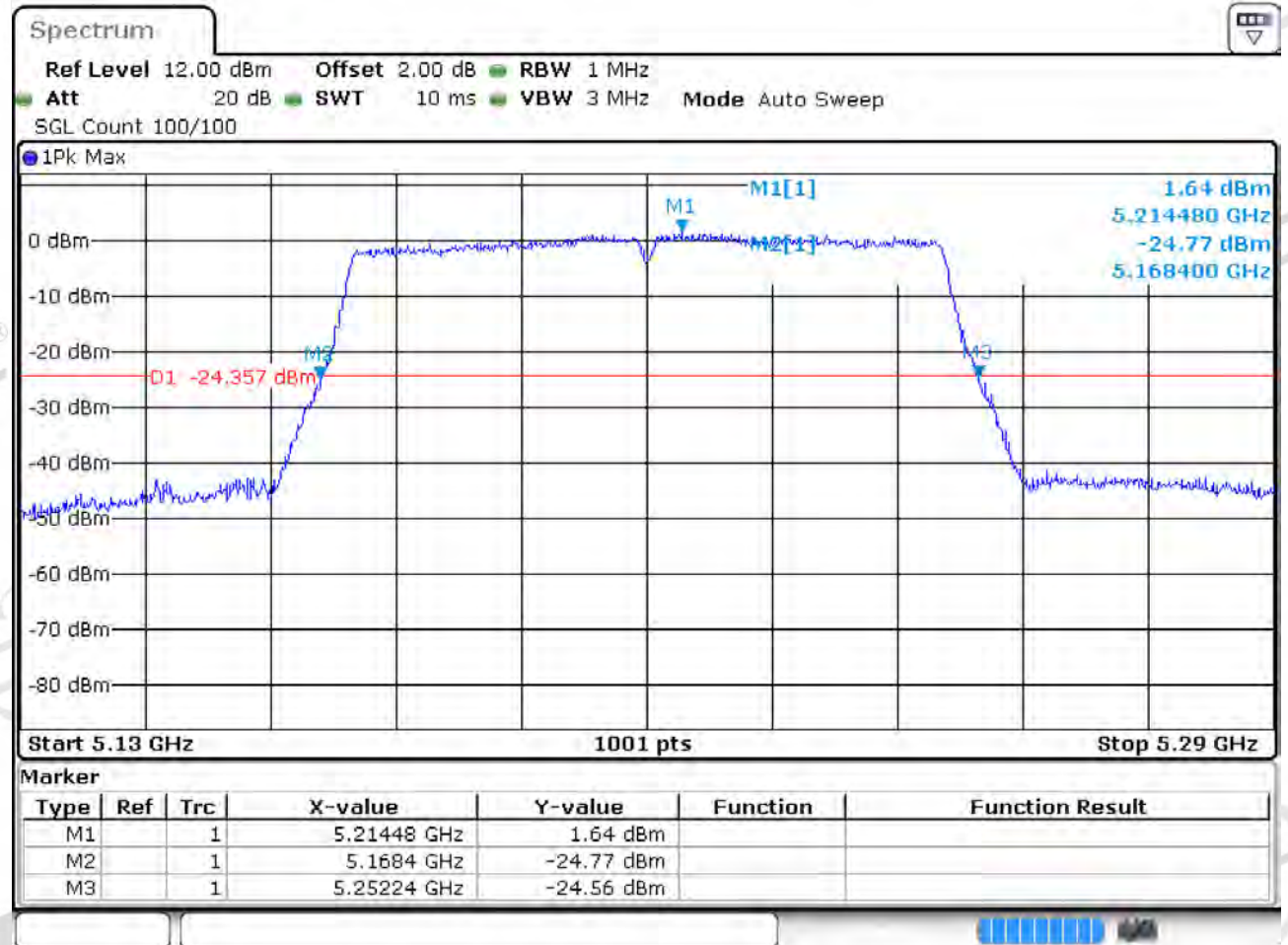
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11AC40MIMO_134 ANT 2



Date: 30 JUL 2019 20:20:36

11AC80_42 ANT 1



Date: 30 JUL 2019 04:00:59