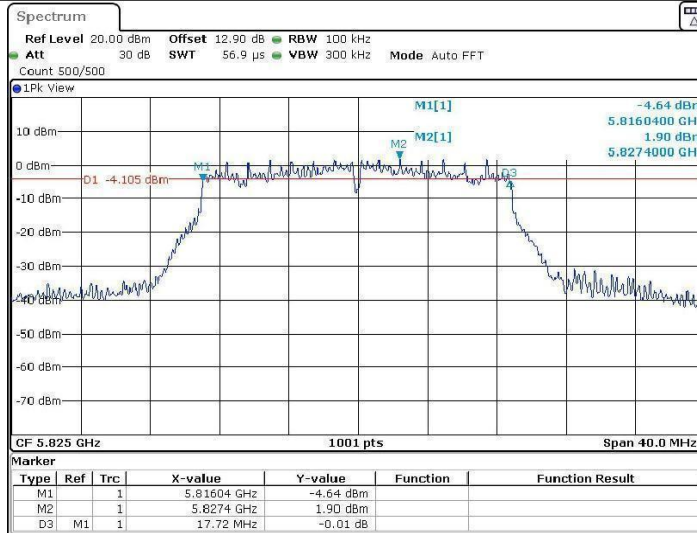
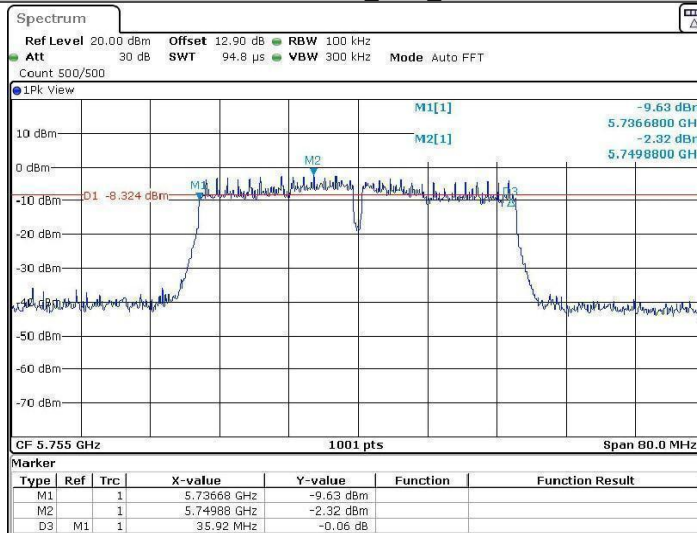


11AC20SISO_Ant1_5825



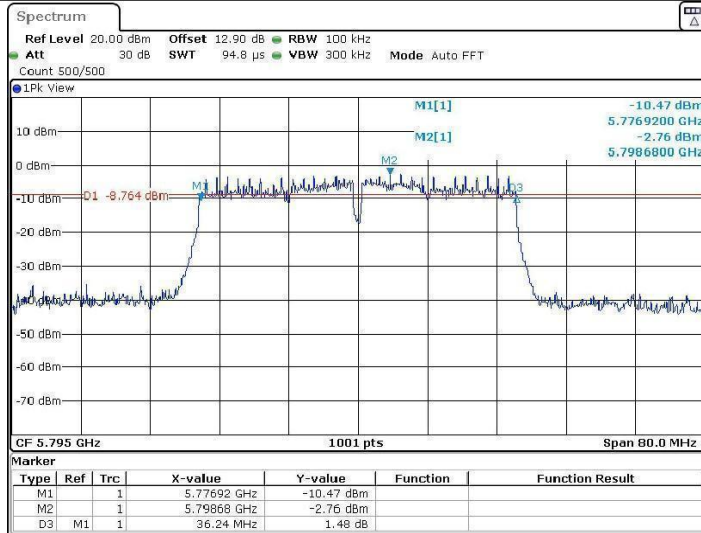
Date: 9 JUN 2022 03:03:18

11AC40SISO_Ant1_5755



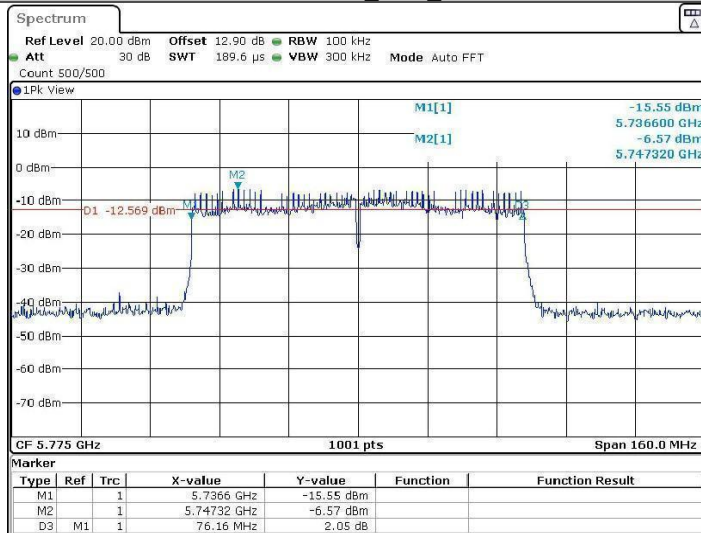
Date: 9 JUN 2022 03:13:24

11AC40SISO_Ant1_5795



Date: 9 JUN 2022 03:16:02

11AC80SISO_Ant1_5775



Date: 9 JUN 2022 03:23:26

Appendix B): Maximum Conduct Output Power

1.Duty Cycle (x)

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

Test Procedure:

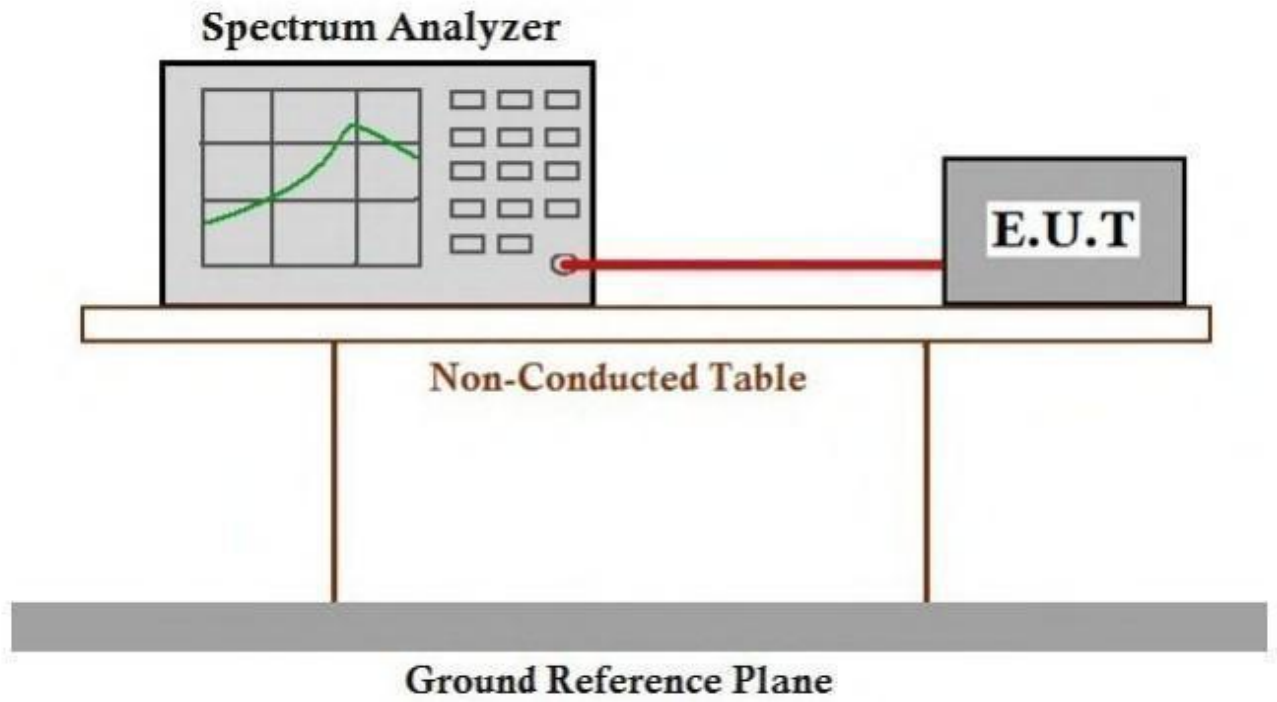
Set RBW = 20MHz

Set VBW = 40MHz

Set detector = peak.

Set span =0Hz

Test Setup Diagram



Measurement Data

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11A	Ant1	5180	0.18	0.28	64.29	1.92
		5200	0.17	0.28	60.71	2.17
		5240	0.18	0.28	64.29	1.92
		5745	0.18	0.28	64.29	1.92
		5785	0.18	0.28	64.29	1.92
		5825	0.17	0.28	60.71	2.17
11N20SISO	Ant1	5180	0.16	0.20	80.00	0.97
		5200	0.17	0.21	80.95	0.92
		5240	0.17	0.21	80.95	0.92
		5745	0.16	0.20	80.00	0.97
		5785	0.16	0.20	80.00	0.97
		5825	0.16	0.21	76.19	1.18
11N40SISO	Ant1	5190	0.10	0.20	50.00	3.01
		5230	0.09	0.20	45.00	3.47
		5755	0.10	0.20	50.00	3.01
		5795	0.09	0.20	45.00	3.47
11AC20SISO	Ant1	5180	0.17	0.21	80.95	0.92
		5200	0.16	0.20	80.00	0.97
		5240	0.17	0.21	80.95	0.92
		5745	0.17	0.21	80.95	0.92
		5785	0.17	0.21	80.95	0.92
		5825	0.17	0.21	80.95	0.92
11AC40SISO	Ant1	5190	0.09	0.13	69.23	1.60
		5230	0.09	0.13	69.23	1.60
		5755	0.10	0.14	71.43	1.46
		5795	0.10	0.14	71.43	1.46
11AC80SISO	Ant1	5210	0.07	0.11	63.64	1.96
		5775	0.06	0.10	60.00	2.22

2. Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

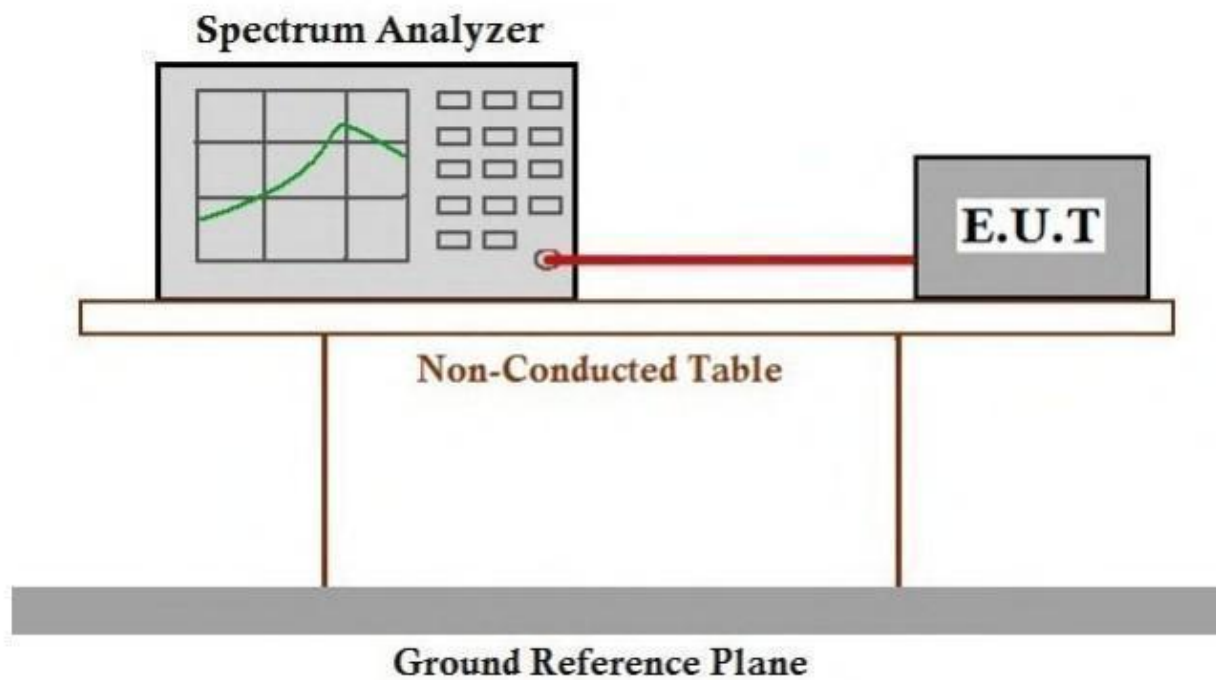
Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Test Procedure:

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (1) Set RBW = 1 MHz.
- (2) Set VBW ≥ 3 MHz.
- (3) Detector = power average
- (4) Sweep time = auto.
- (5) Add duty cycle to the measured average power.

Test Setup Diagram



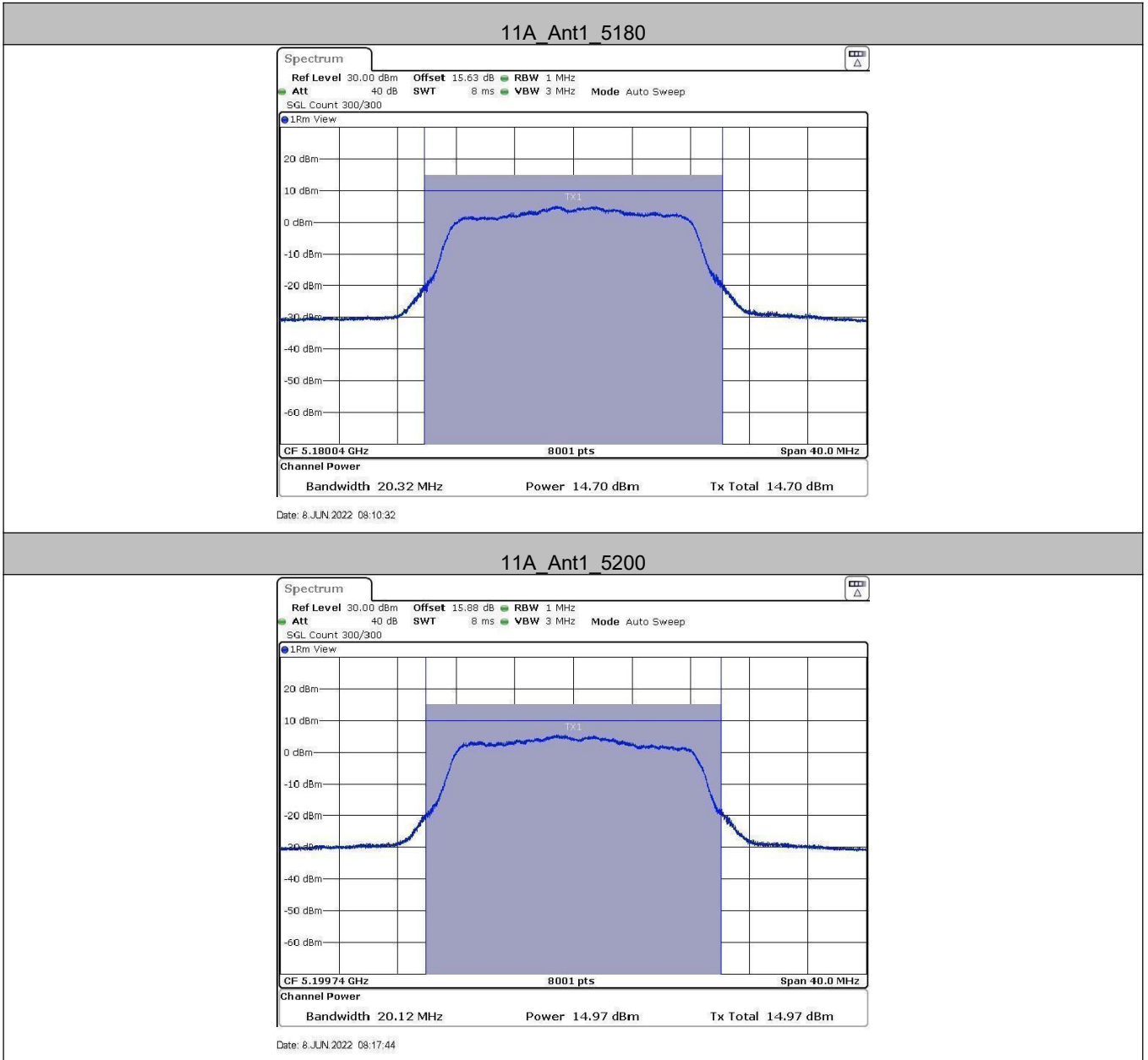
Measurement Data

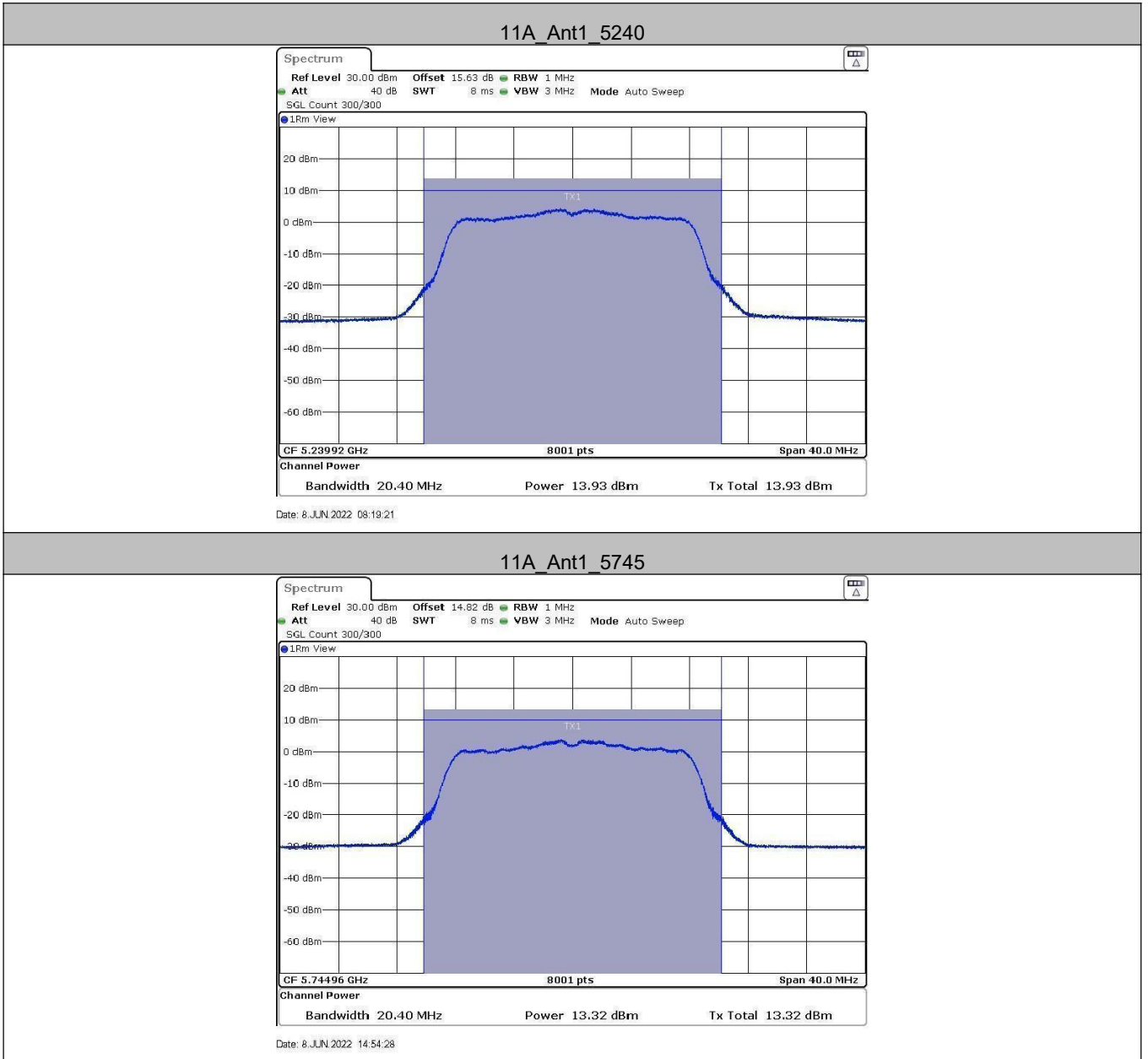
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	14.70	≤23.98	PASS
		5200	14.97	≤23.98	PASS
		5240	13.93	≤23.98	PASS
		5745	13.32	≤30	PASS
		5785	12.58	≤30	PASS
		5825	13.44	≤30	PASS
11N20SISO	Ant1	5180	14.52	≤23.98	PASS
		5200	14.11	≤23.98	PASS
		5240	13.56	≤23.98	PASS
		5745	13.01	≤30	PASS
		5785	12.37	≤30	PASS
		5825	13.18	≤30	PASS
11N40SISO	Ant1	5190	12.77	≤23.98	PASS
		5230	12.18	≤23.98	PASS
		5755	10.84	≤30	PASS
		5795	11.48	≤30	PASS
11AC20SISO	Ant1	5180	14.27	≤23.98	PASS
		5200	14.23	≤23.98	PASS
		5240	13.62	≤23.98	PASS
		5745	12.92	≤30	PASS
		5785	12.28	≤30	PASS
		5825	12.77	≤30	PASS
11AC40SISO	Ant1	5190	12.80	≤23.98	PASS
		5230	11.88	≤23.98	PASS
		5755	10.93	≤30	PASS
		5795	11.02	≤30	PASS
11AC80SISO	Ant1	5210	10.84	≤23.98	PASS
		5775	9.91	≤30	PASS

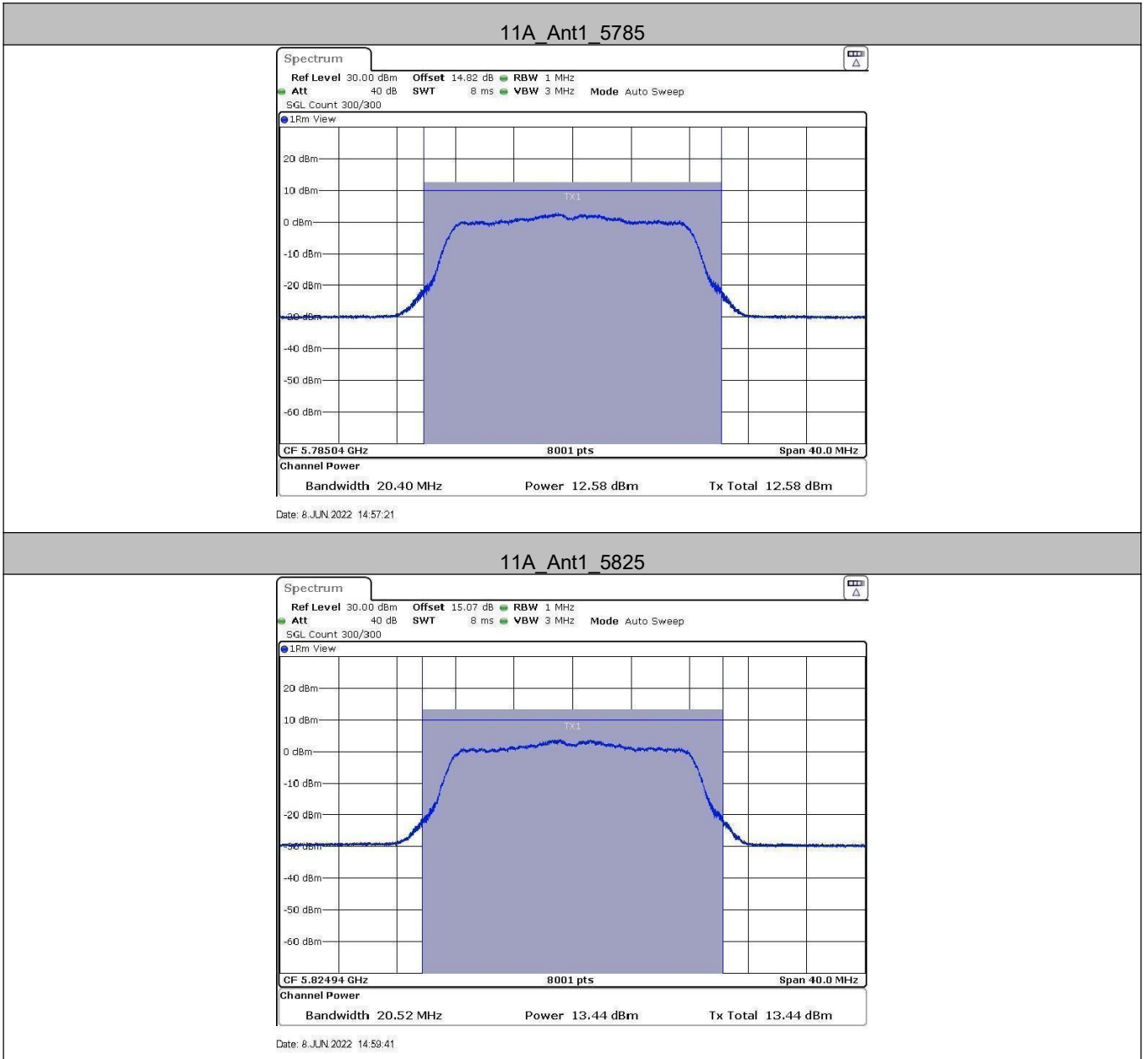
Remark:

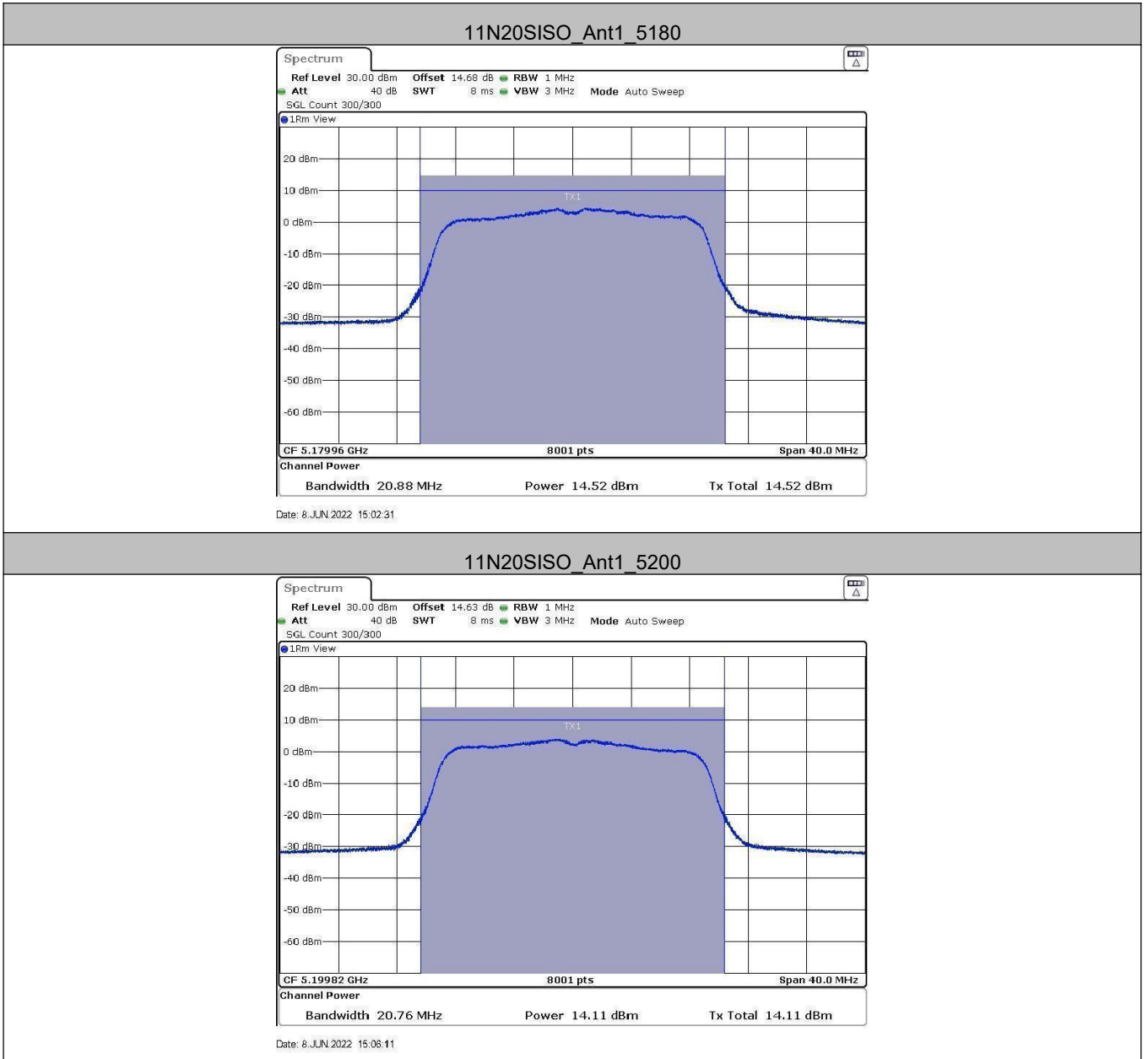
 $Av.Power = Meas.Level + 10 \log(1/duty\ cycle)$
 $E.i.r.p = Av.Power + G,$
 $G = \text{antenna gain in dBi.}$

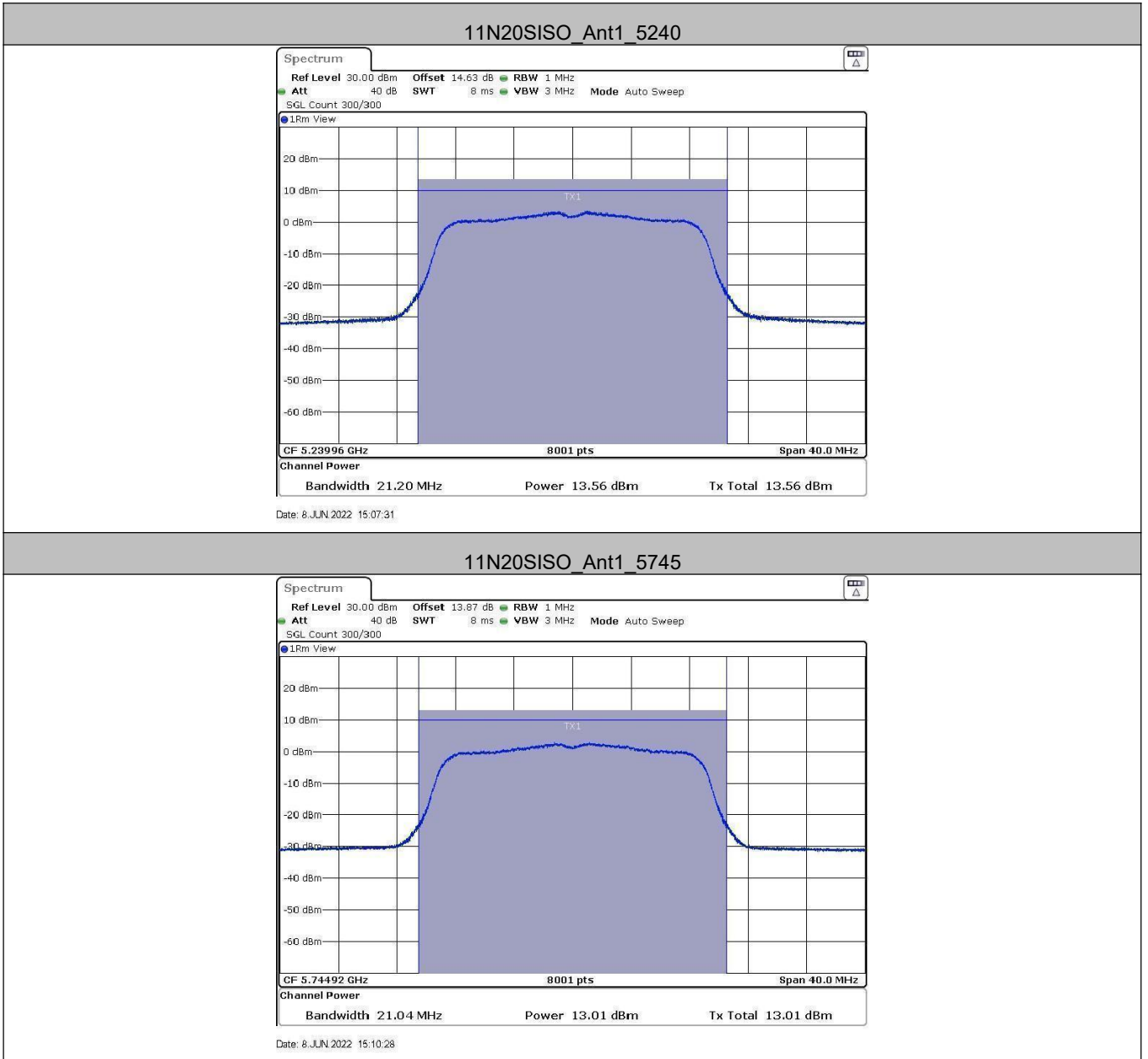
Test Graphs

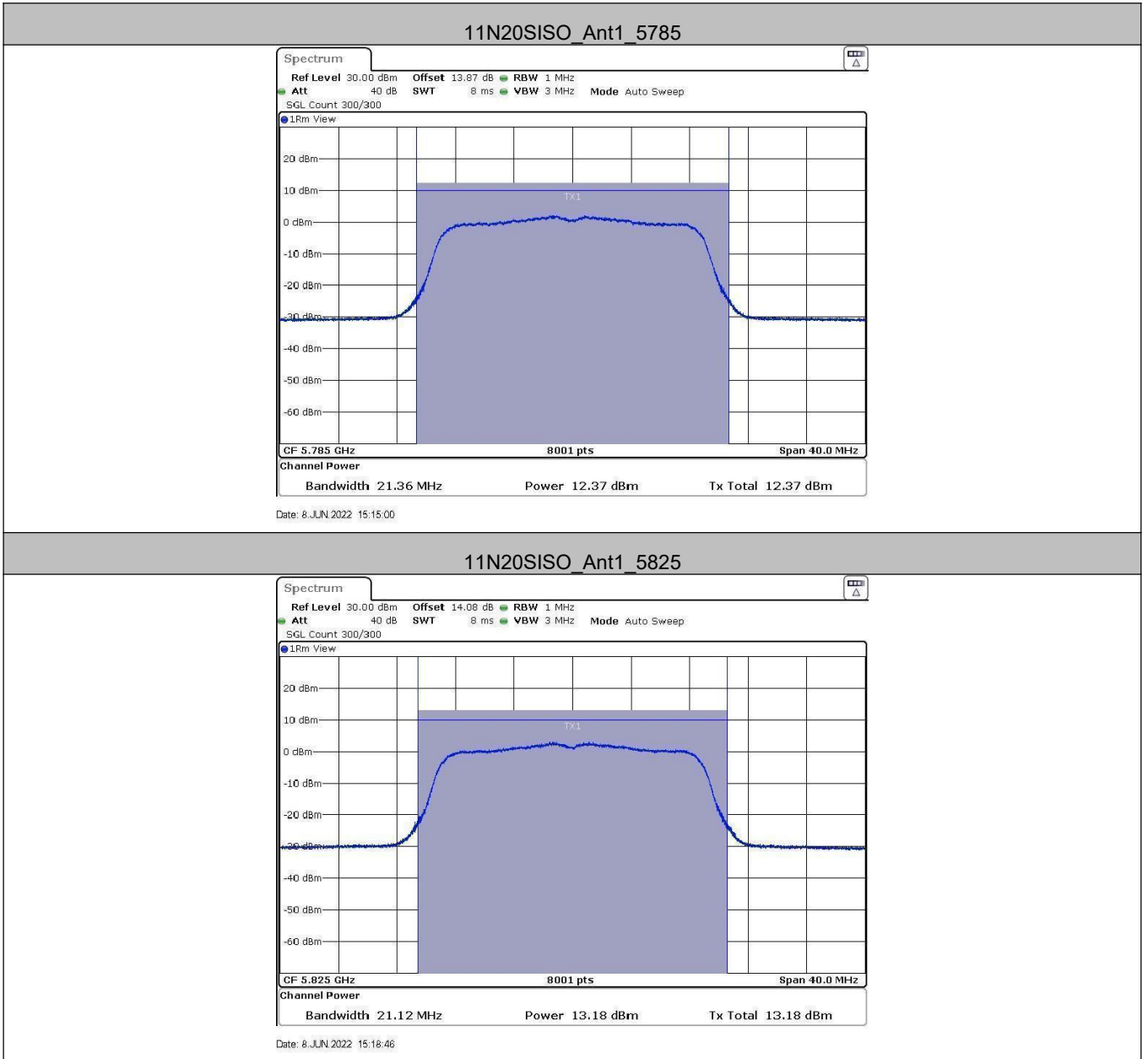


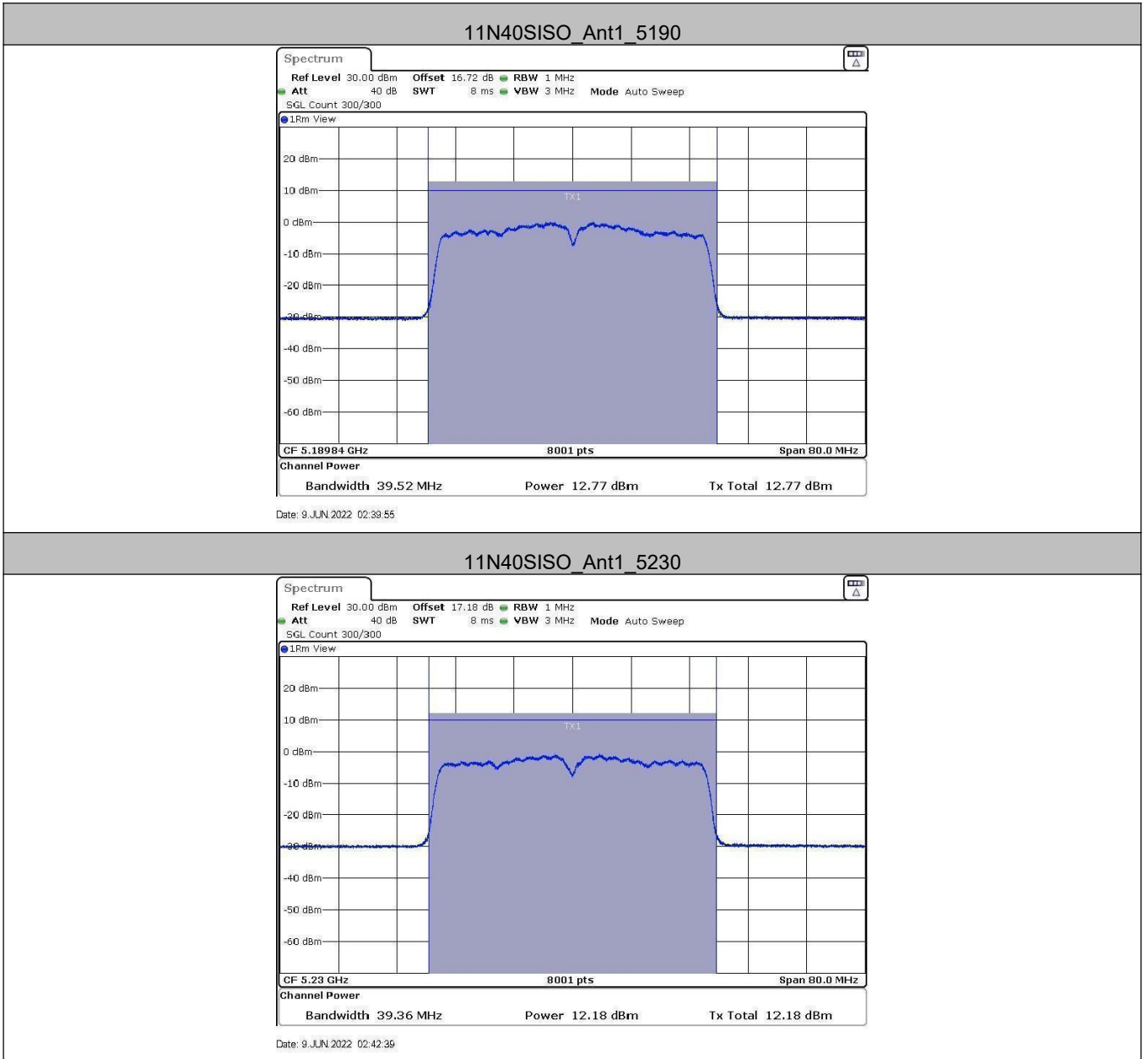




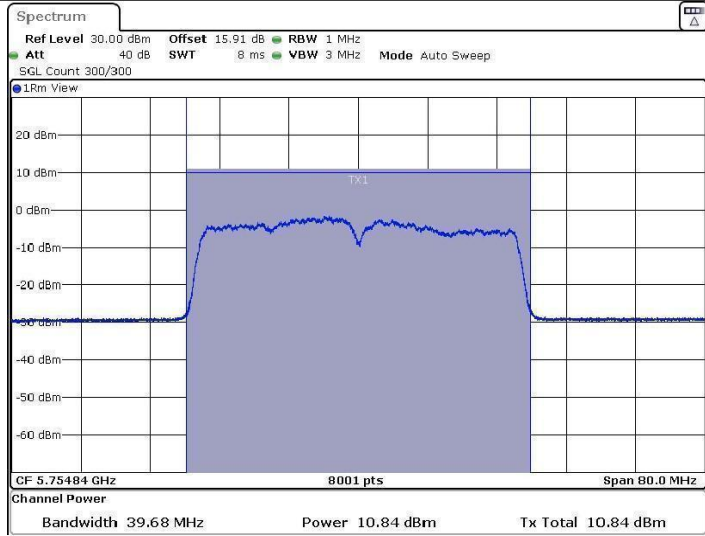






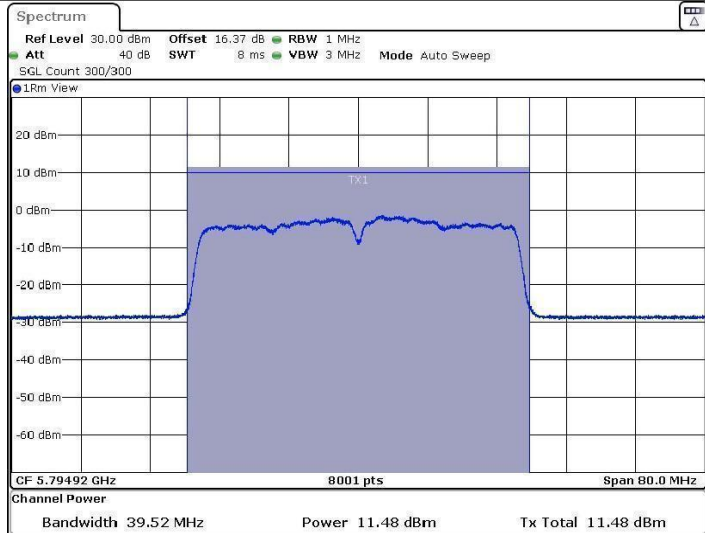


11N40SISO_Ant1_5755



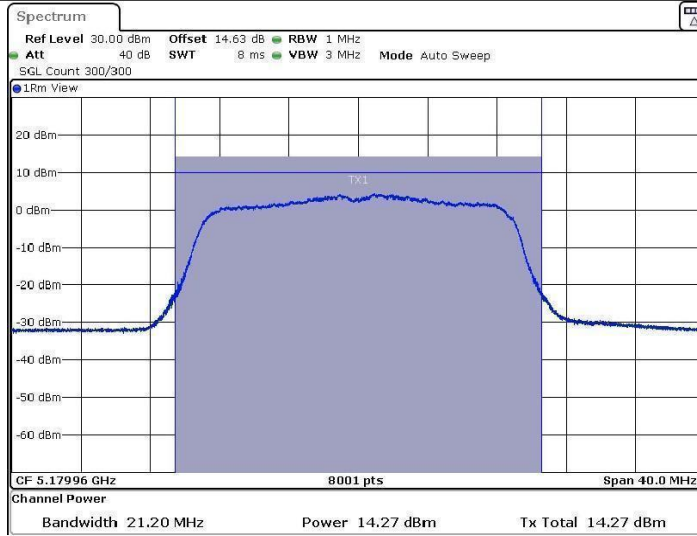
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11N40SISO_Ant1_5795



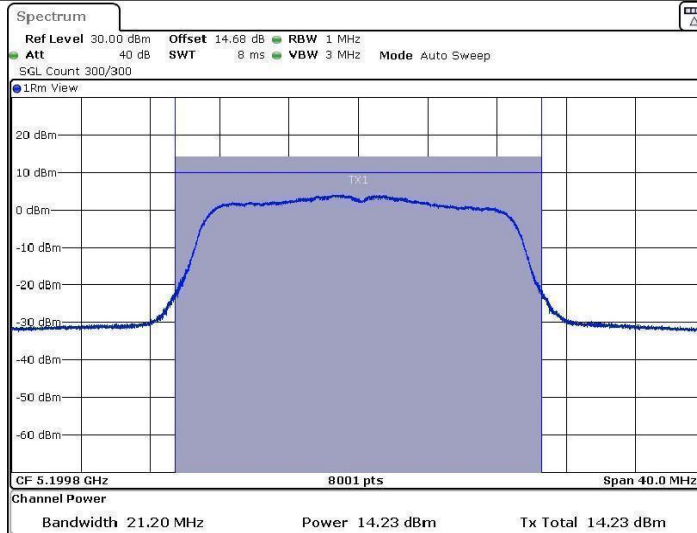
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11AC20SISO_Ant1_5180



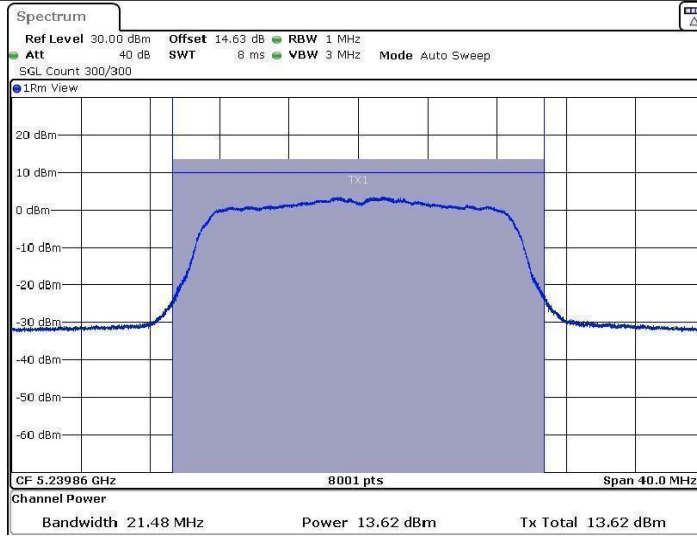
Date: 9 JUN.2022 02:51:11

11AC20SISO_Ant1_5200



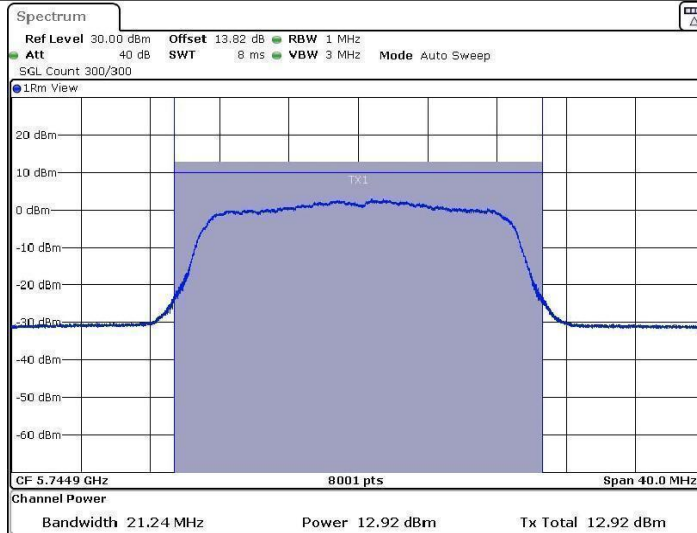
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11AC20SISO_Ant1_5240



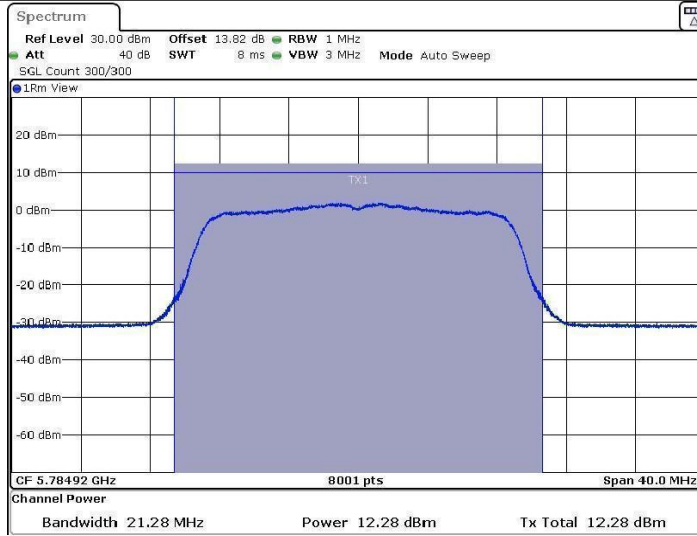
Date: 9 JUN.2022 02:54:49

11AC20SISO_Ant1_5745



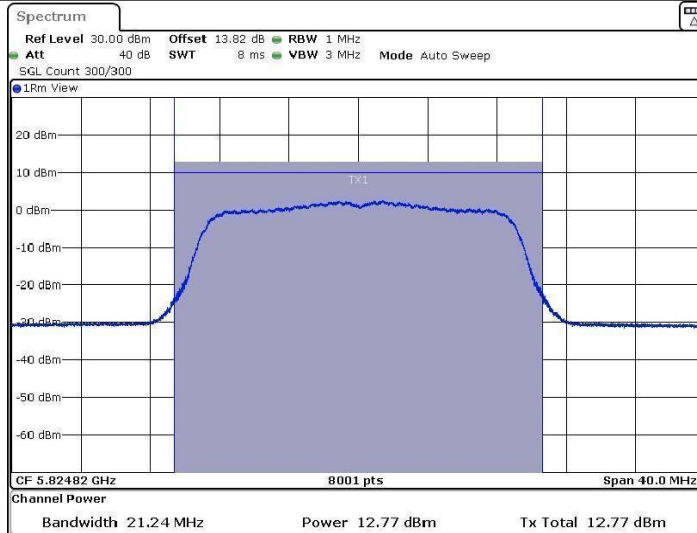
Date: 9 JUN.2022 02:57:30

11AC20SISO_Ant1_5785



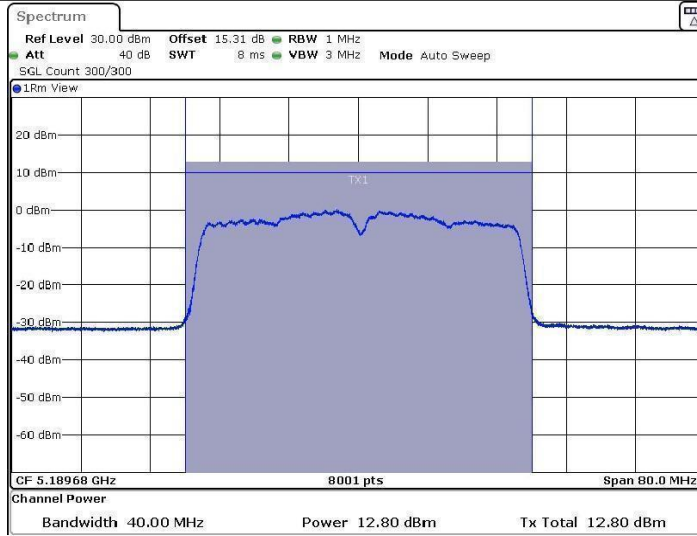
Date: 9 JUN.2022 03:01:40

11AC20SISO_Ant1_5825



Date: 9 JUN.2022 03:03:56

11AC40SISO_Ant1_5190



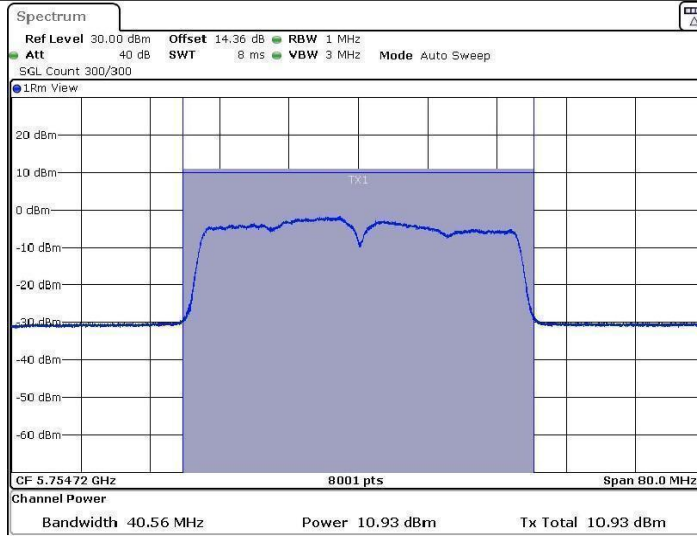
Date: 9 JUN.2022 03:08:44

11AC40SISO_Ant1_5230



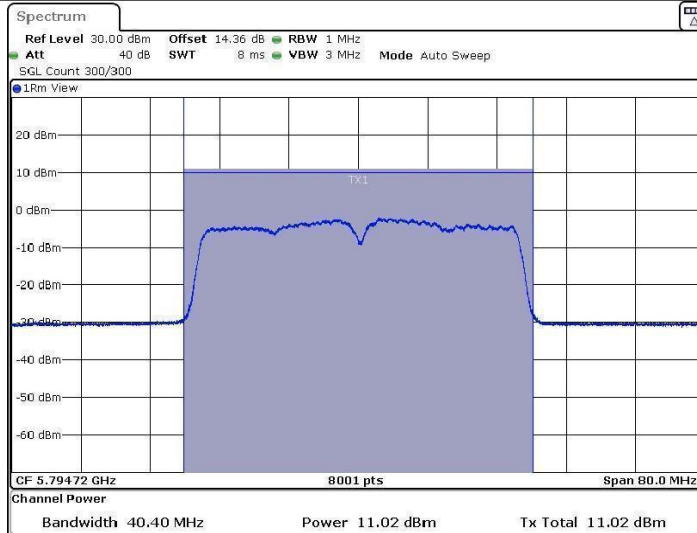
Date: 9 JUN.2022 03:11:09

11AC40SISO_Ant1_5755



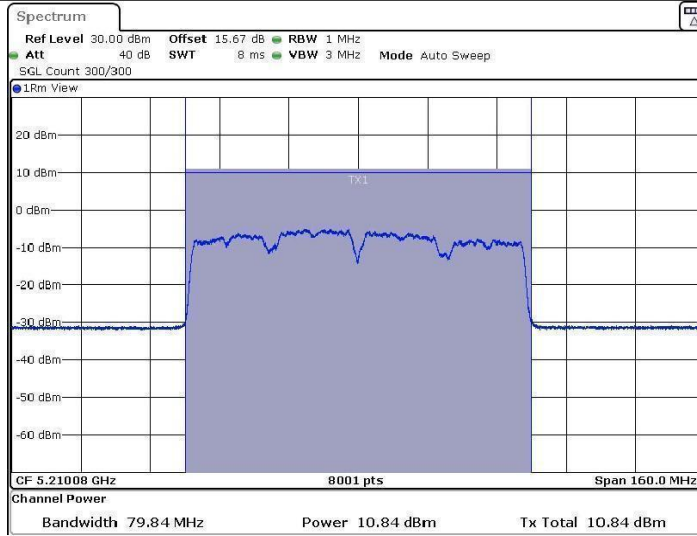
Date: 9 JUN.2022 03:14:01

11AC40SISO_Ant1_5795



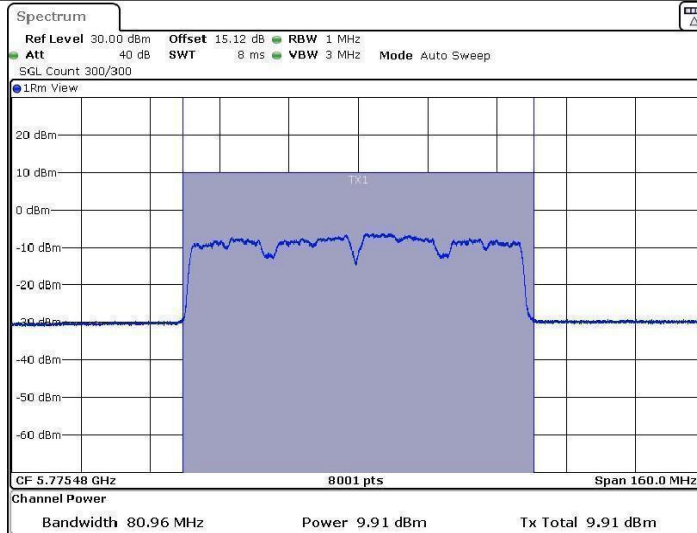
Date: 9 JUN.2022 03:16:39

11AC80SISO_Ant1_5210



Date: 9 JUN.2022 03:20:06

11AC80SISO_Ant1_5775



Date: 9 JUN.2022 03:24:02

Appendix C): Maximum Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Test Procedure:

For 5150-5725MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 1MHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = RMS.

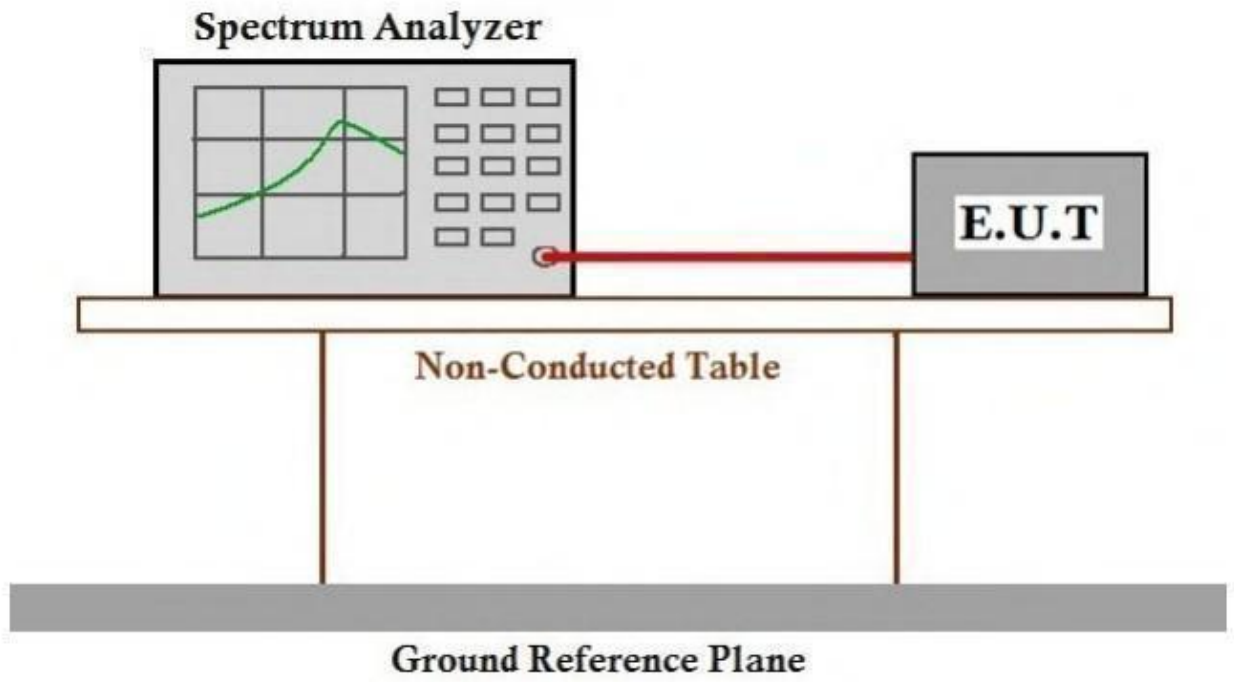
For 5725-5850MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 500KHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = RMS.

Limit:

Frequency band(MHz)	Limit
5150-5250	≤ 17 dBm in 1MHz for master device
	≤ 11 dBm in 1MHz for client device
5250-5350	≤ 11 dBm in 1MHz for client device
5470-5725	≤ 11 dBm in 1MHz for client device
5725-5850	≤ 30 dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

Test Setup Diagram



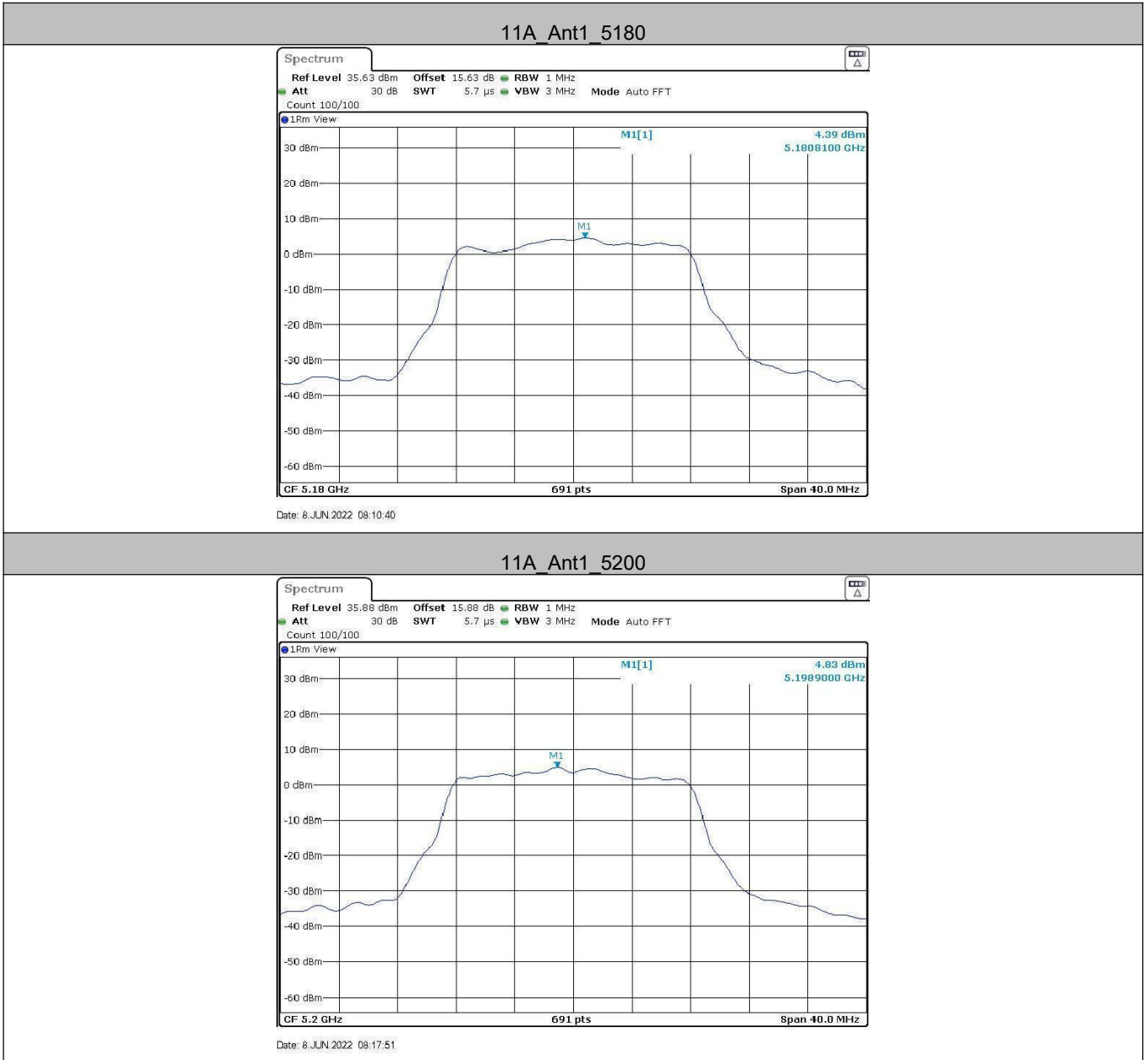
Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	4.39	≤11	PASS
		5200	4.83	≤11	PASS
		5240	3.71	≤11	PASS
		5745	1.04	≤30	PASS
		5785	0.2	≤30	PASS
		5825	0.6	≤30	PASS
11N20SISO	Ant1	5180	3.56	≤11	PASS
		5200	3.04	≤11	PASS
		5240	3.01	≤11	PASS
		5745	-0.1	≤30	PASS
		5785	-0.88	≤30	PASS
		5825	0.62	≤30	PASS
11N40SISO	Ant1	5190	-0.81	≤11	PASS
		5230	-0.87	≤11	PASS
		5755	-4.43	≤30	PASS
		5795	-4.75	≤30	PASS
11AC20SISO	Ant1	5180	3.51	≤11	PASS
		5200	3.51	≤11	PASS
		5240	3.06	≤11	PASS
		5745	-1.01	≤30	PASS
		5785	-1.29	≤30	PASS
		5825	0.02	≤30	PASS
11AC40SISO	Ant1	5190	-0.18	≤11	PASS
		5230	-1.31	≤11	PASS
		5755	-4.47	≤30	PASS
		5795	-4.84	≤30	PASS
11AC80SISO	Ant1	5210	-5.33	≤11	PASS
		5775	-9.15	≤30	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs



11A_Ant1_5240



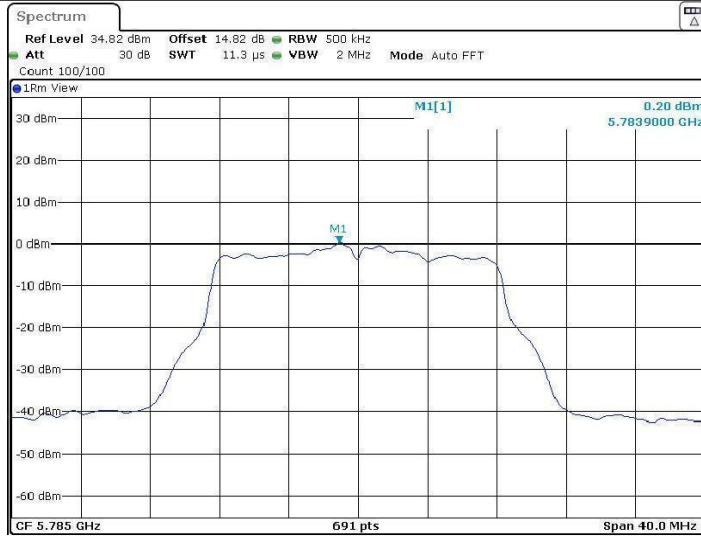
Date: 8 JUN 2022 08:19:28

11A_Ant1_5745



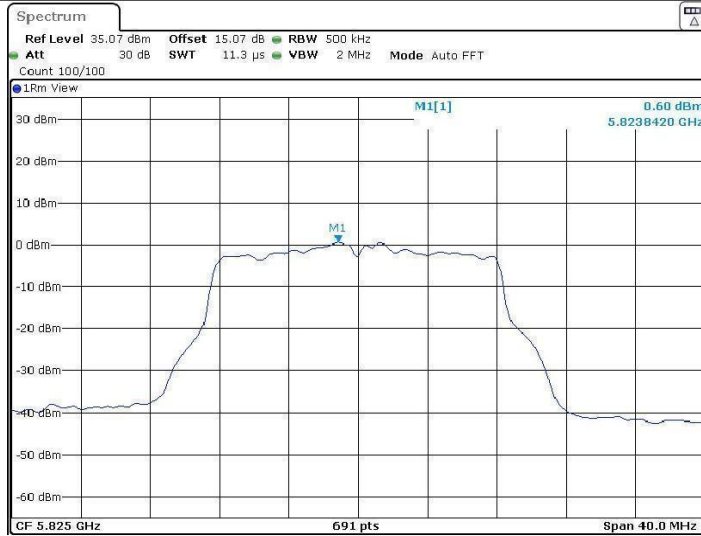
Date: 8 JUN 2022 14:54:35

11A_Ant1_5785



Date: 8 JUN 2022 14:57:28

11A_Ant1_5825



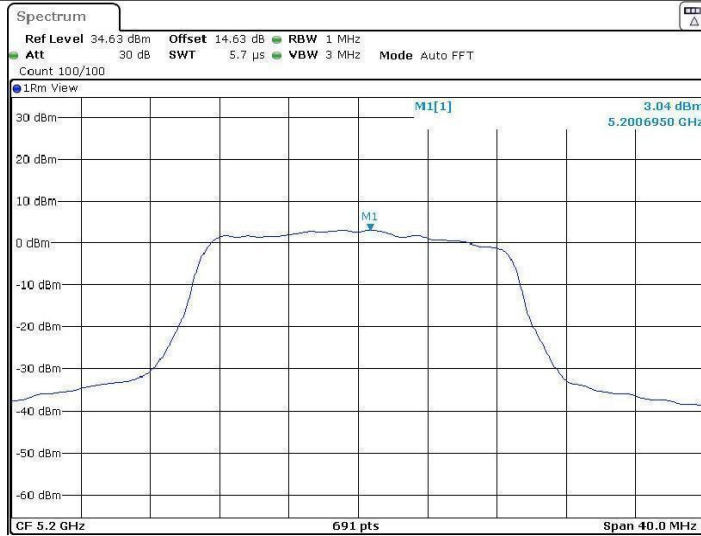
Date: 8 JUN 2022 14:59:48

11N20SISO_Ant1_5180



Date: 8 JUN.2022 15:02:38

11N20SISO_Ant1_5200



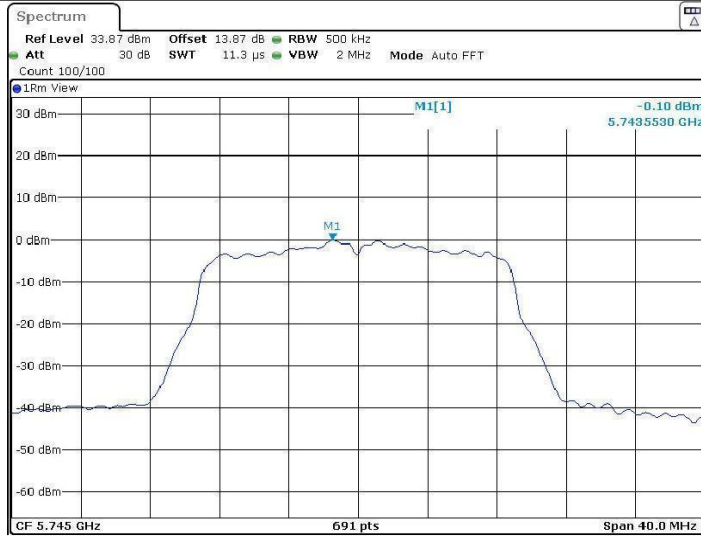
Date: 8 JUN.2022 15:06:18

11N20SISO_Ant1_5240



Date: 8 JUN.2022 15:07:38

11N20SISO_Ant1_5745



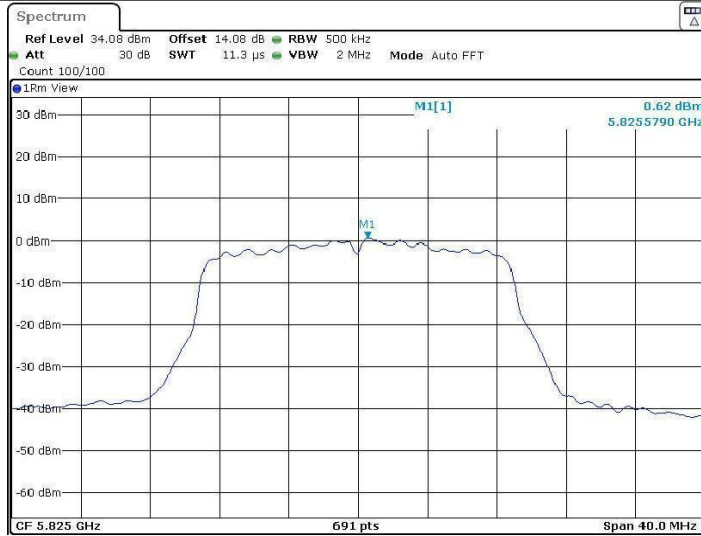
Date: 8 JUN.2022 15:10:35

11N20SISO_Ant1_5785



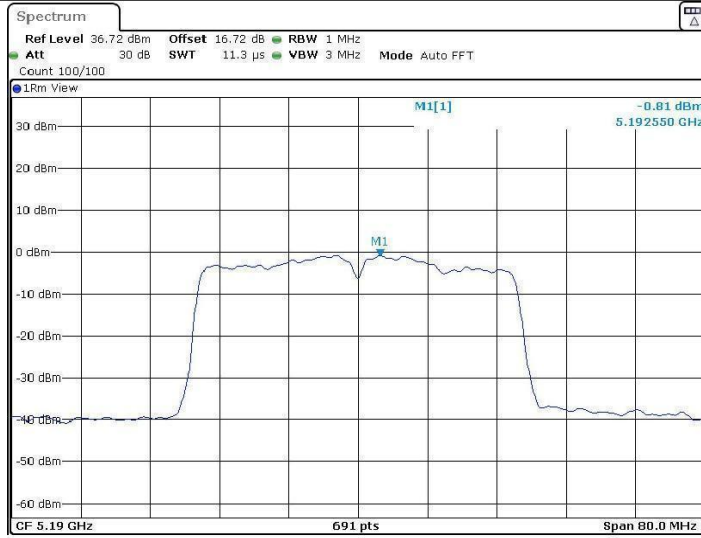
Date: 8 JUN 2022 15:15:07

11N20SISO_Ant1_5825



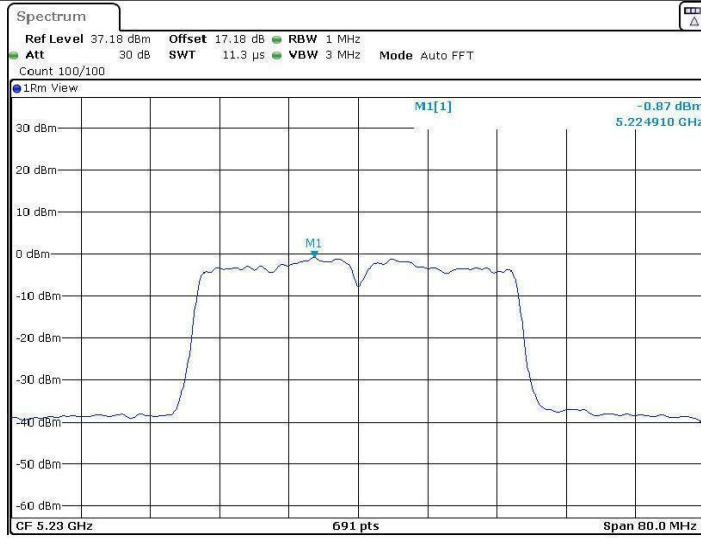
Date: 8 JUN 2022 15:18:53

11N40SISO_Ant1_5190



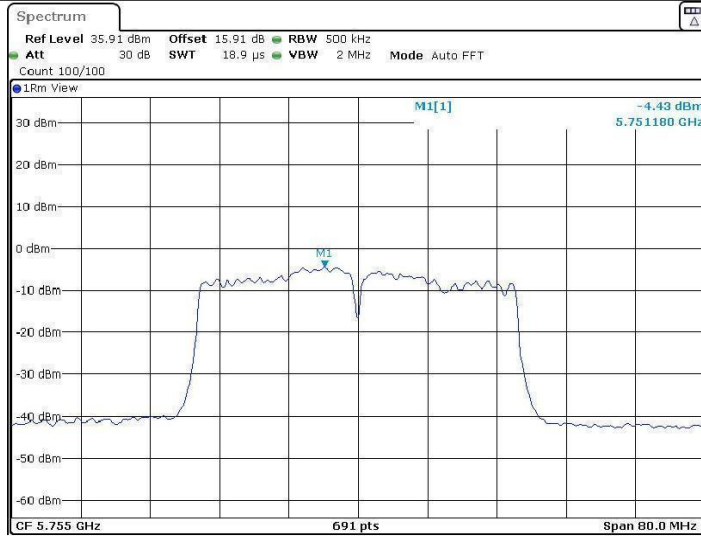
Date: 9 JUN.2022 02:40:02

11N40SISO_Ant1_5230



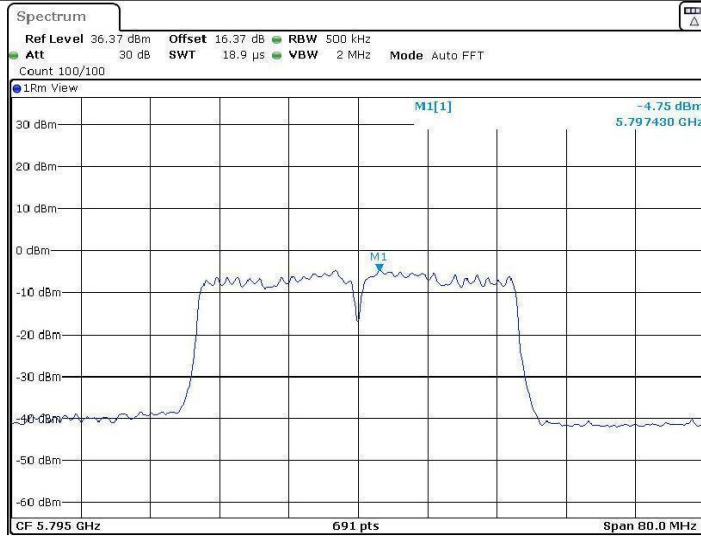
Date: 9 JUN.2022 02:42:46

11N40SISO_Ant1_5755



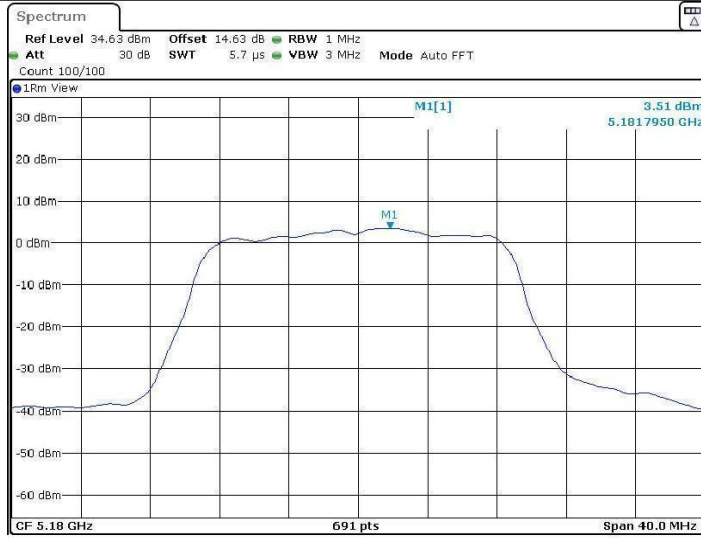
Date: 9 JUN.2022 02:45:51

11N40SISO_Ant1_5795



Date: 9 JUN.2022 02:48:30

11AC20SISO_Ant1_5180



Date: 9 JUN.2022 02:51:18

11AC20SISO_Ant1_5200



Date: 9 JUN.2022 02:53:42

11AC20SISO_Ant1_5240



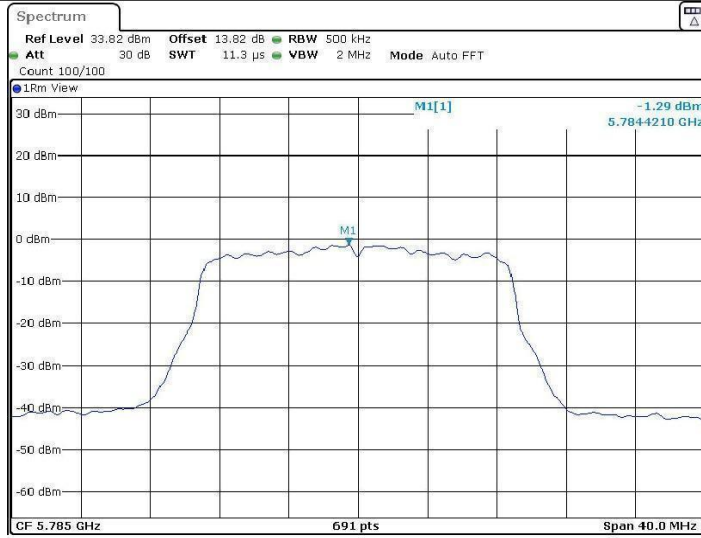
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11AC20SISO_Ant1_5745



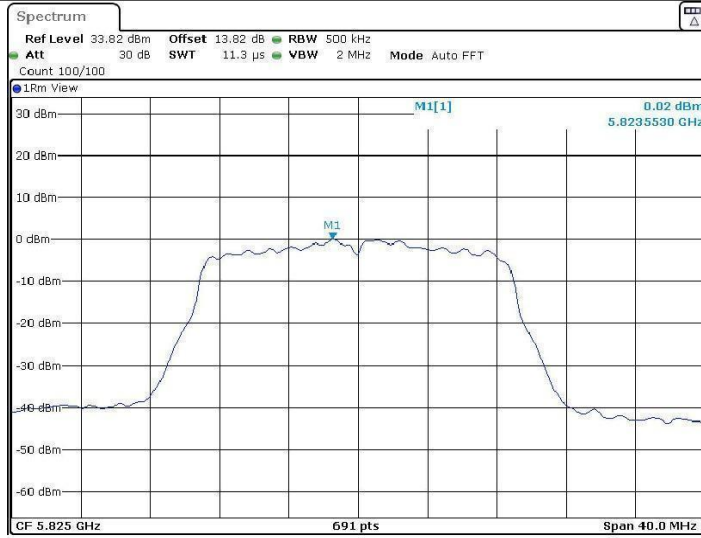
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11AC20SISO_Ant1_5785



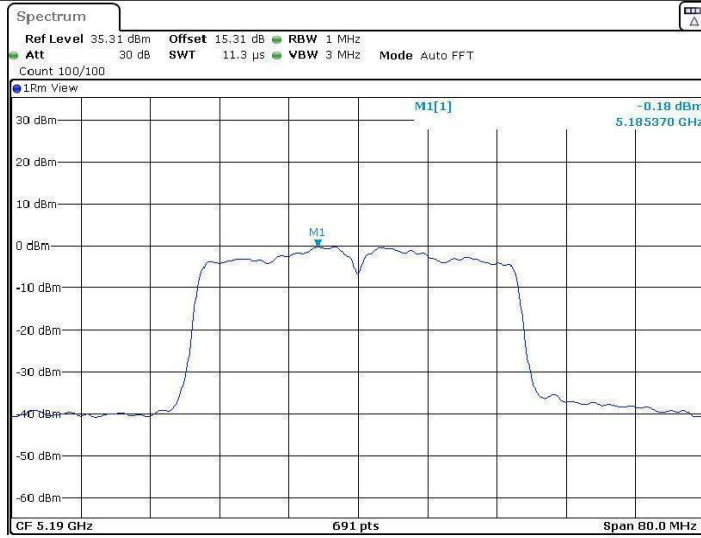
Date: 9 JUN.2022 03:01:47

11AC20SISO_Ant1_5825



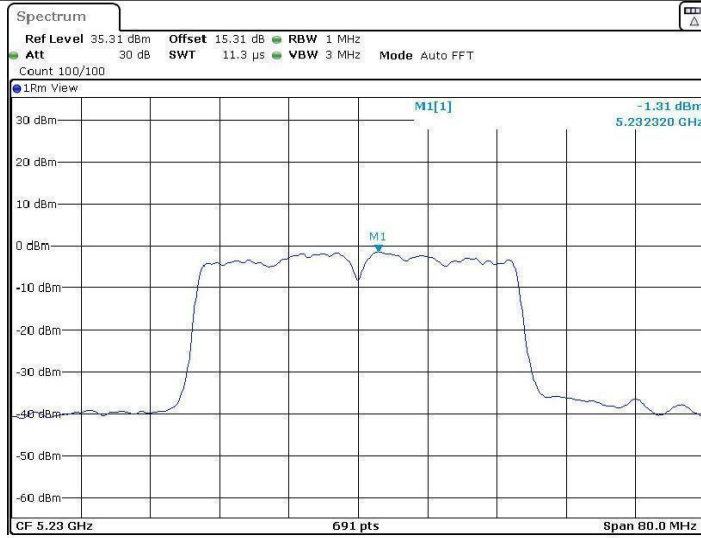
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11AC40SISO_Ant1_5190



Date: 9 JUN.2022 03:08:51

11AC40SISO_Ant1_5230



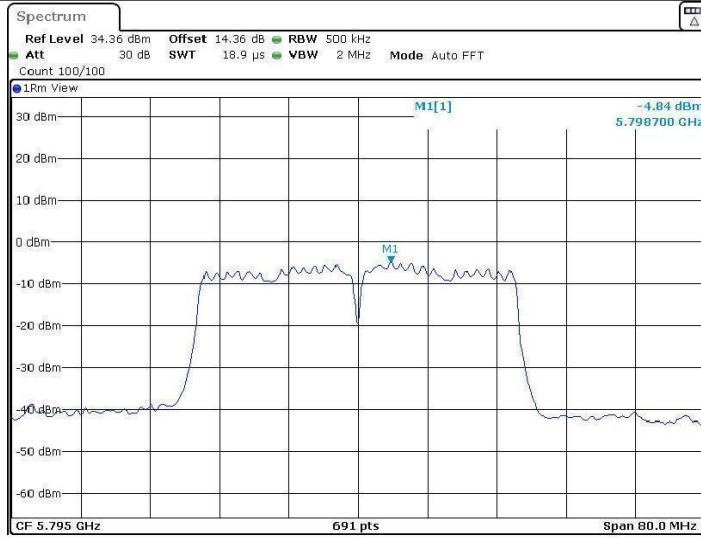
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11AC40SISO_Ant1_5755



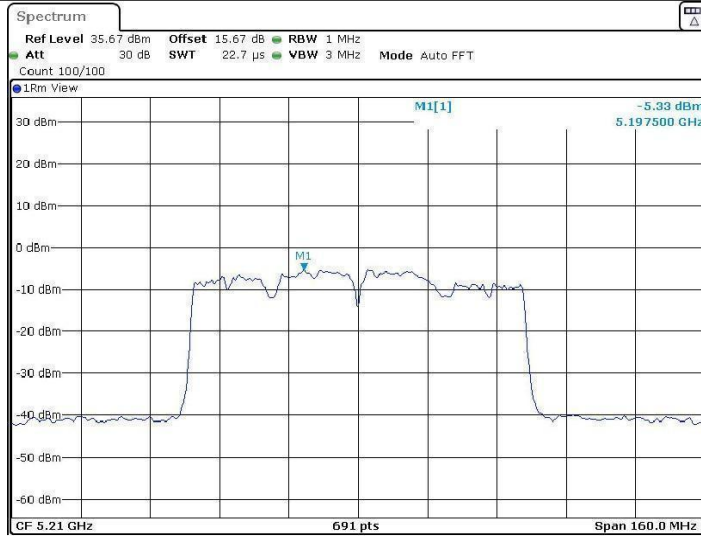
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11AC40SISO_Ant1_5795



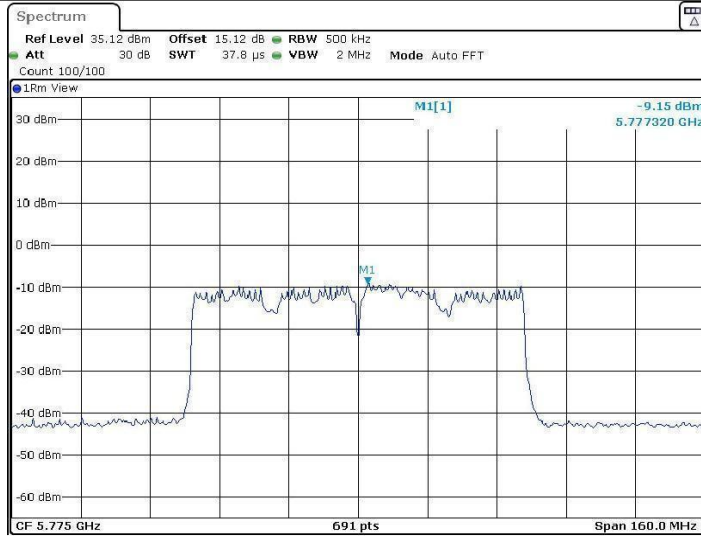
Date: 9 JUN.2022 03:16:46

11AC80SISO_Ant1_5210



Date: 9 JUN.2022 03:20:13

11AC80SISO_Ant1_5775



Date: 9 JUN.2022 03:24:09

Appendix D): Band Edge Measurements

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

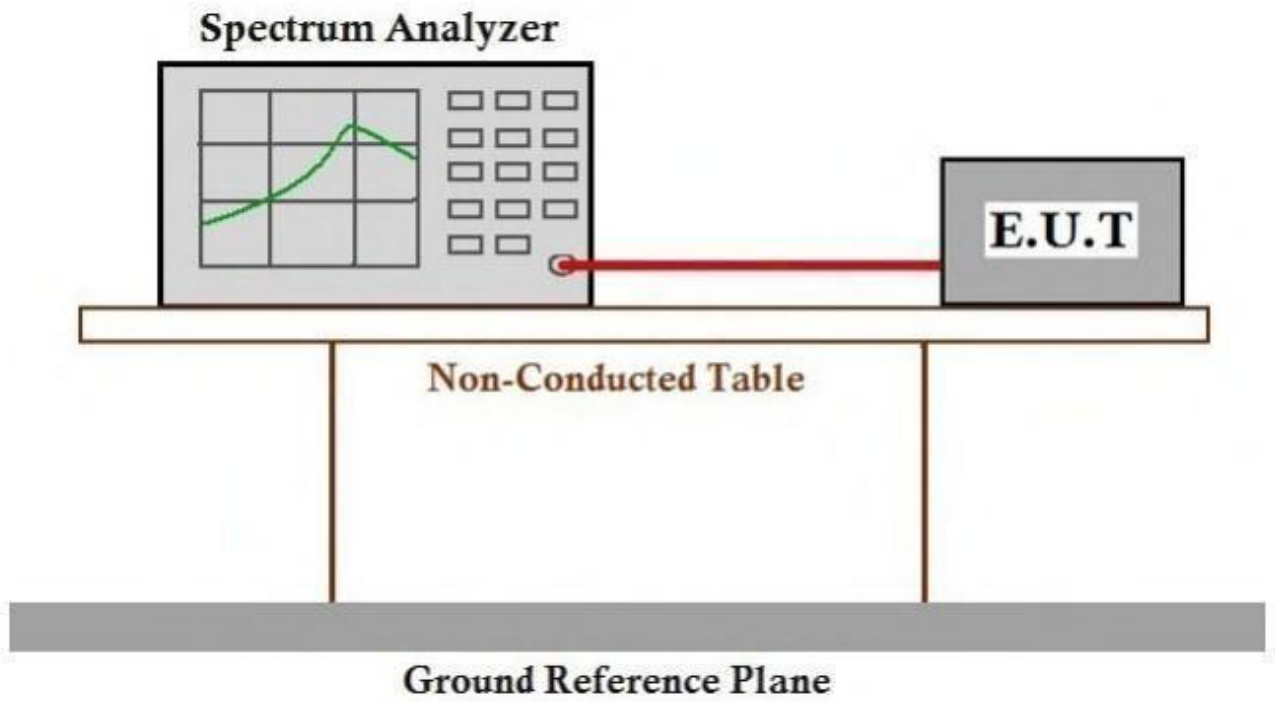
Test Procedure:

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

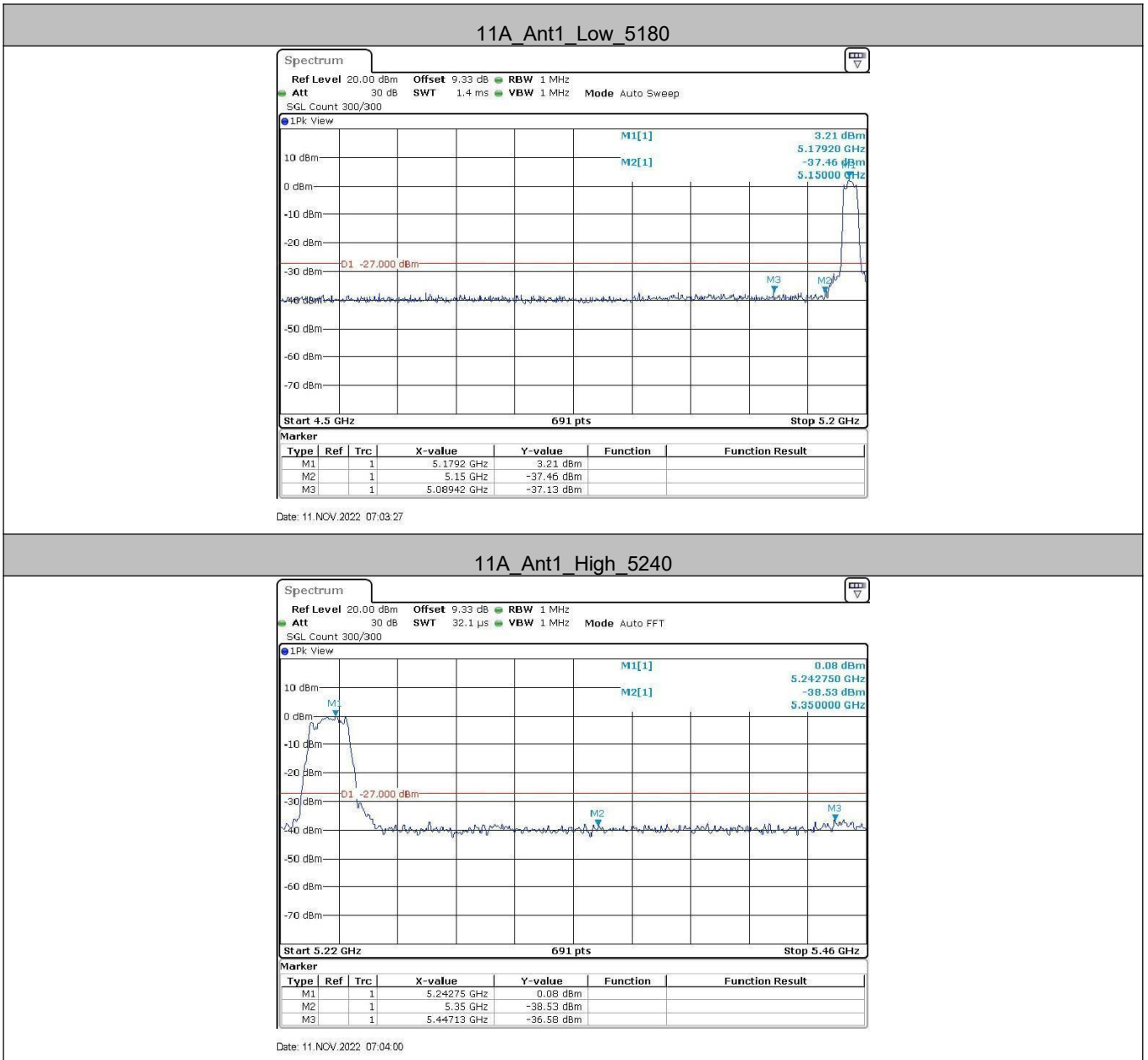
Limit:

For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

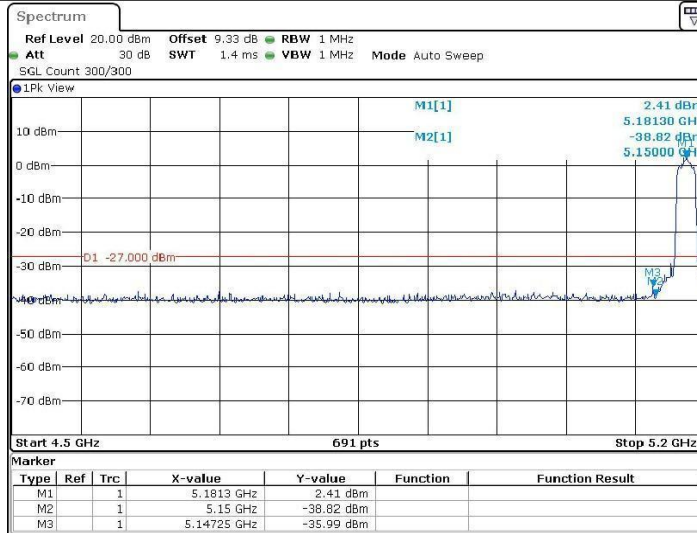
Test Setup Diagram



Test Graphs

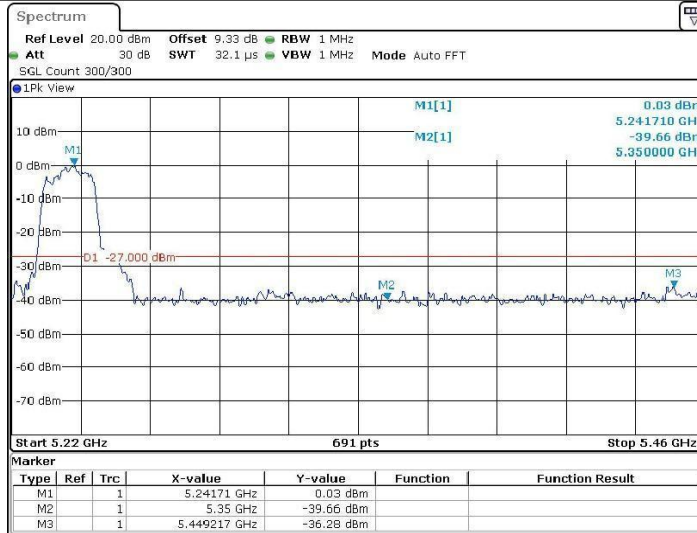


11N20SISO_Ant1_Low_5180



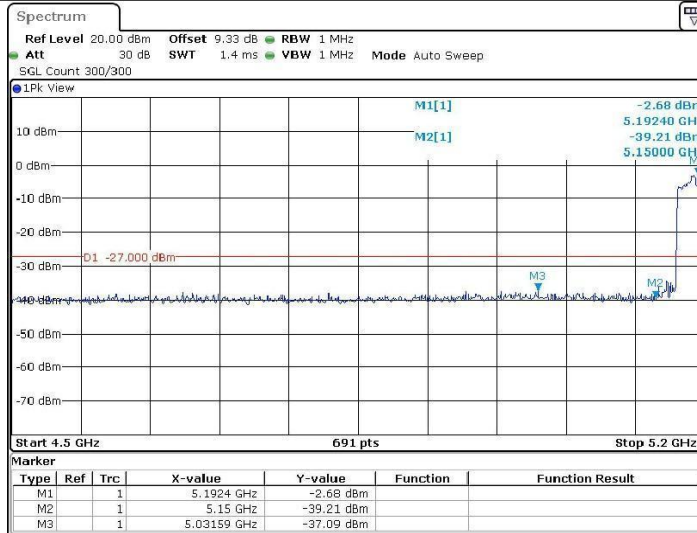
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11N20SISO_Ant1_High_5240

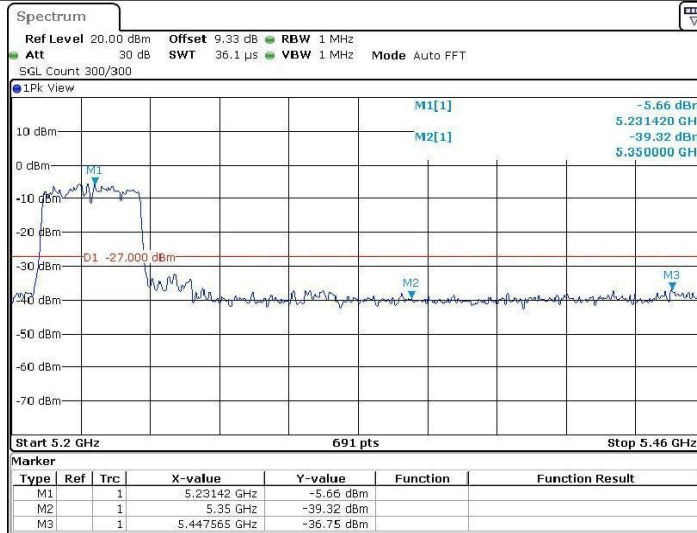


Date: 11 NOV. 2022 07:07:00

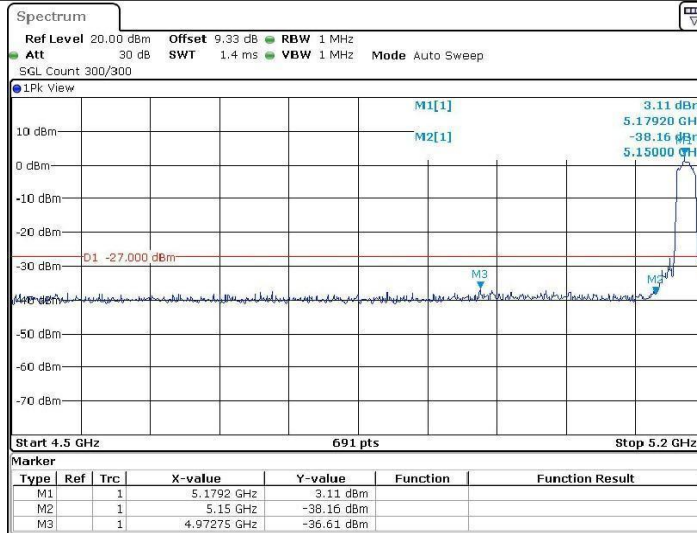
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230

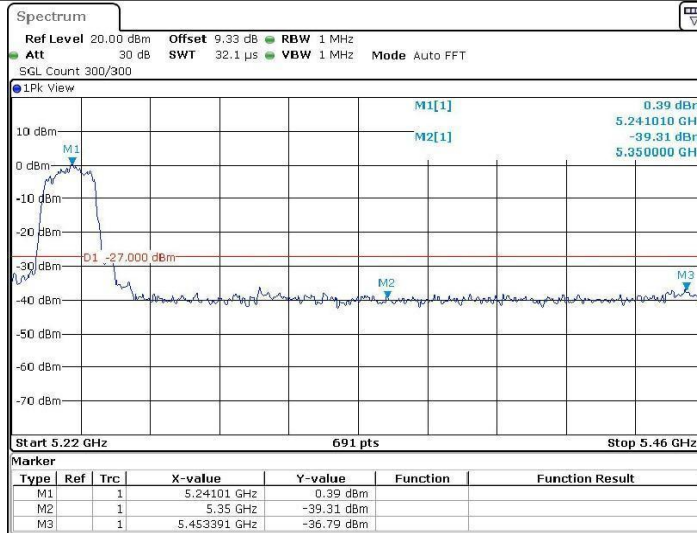


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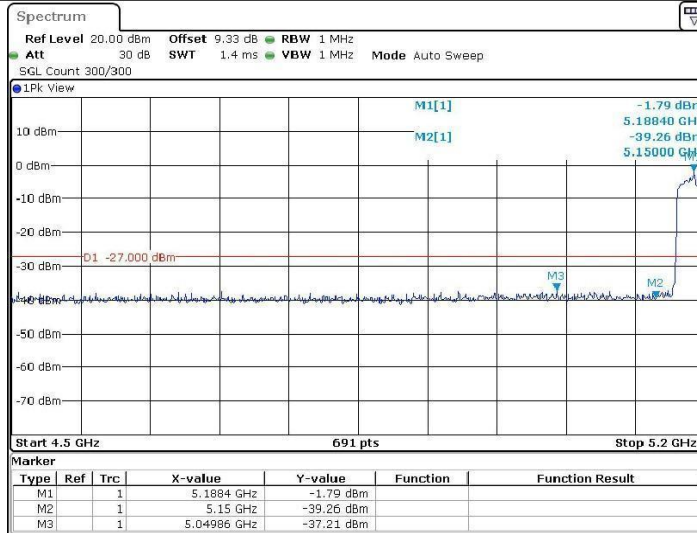
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11AC20SISO_Ant1_High_5240



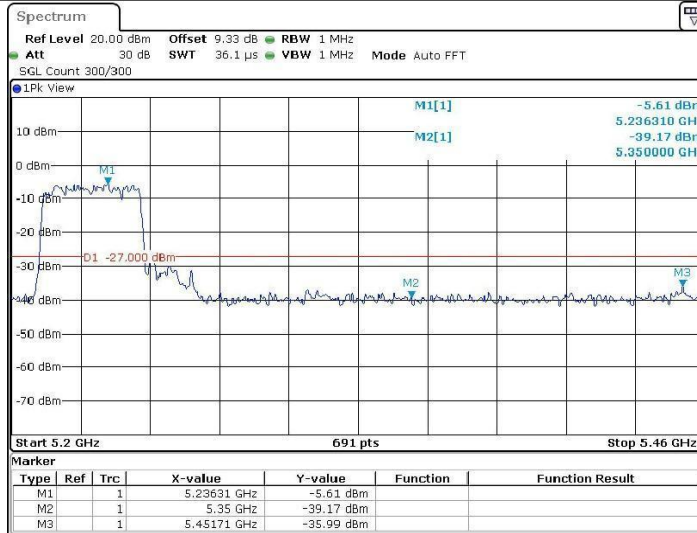
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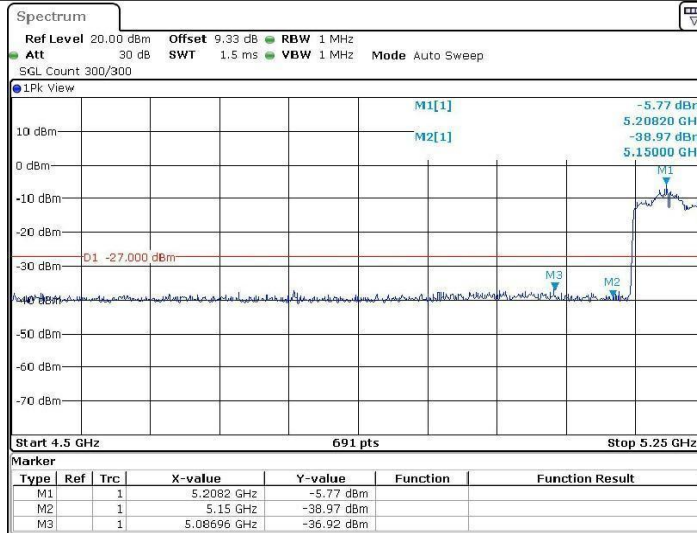
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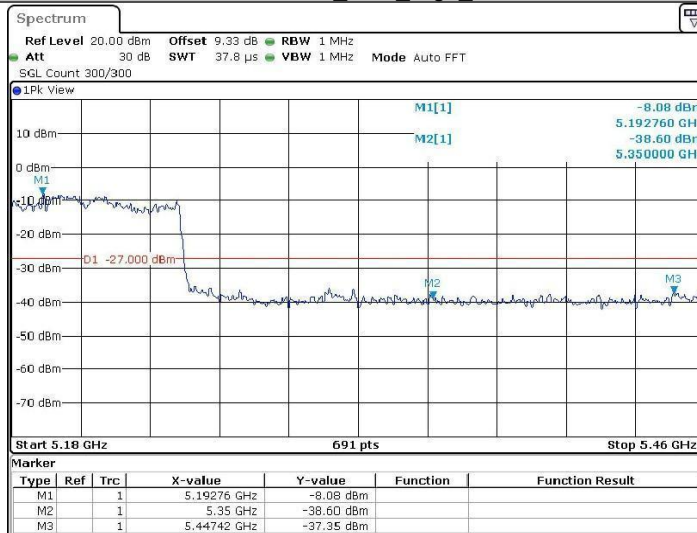
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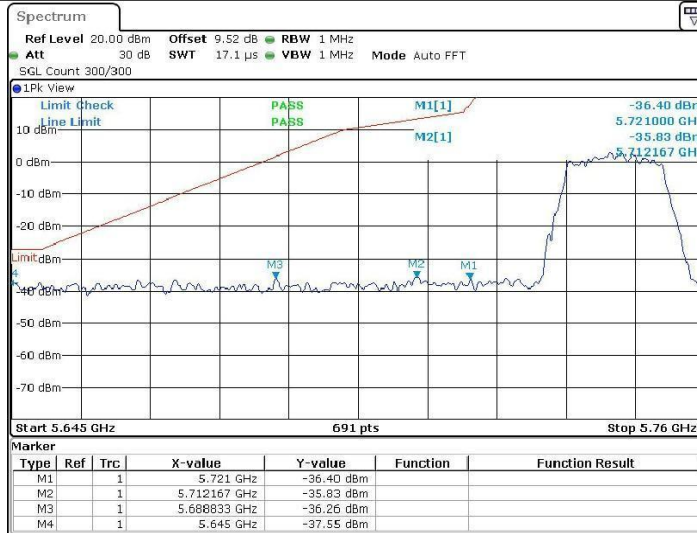
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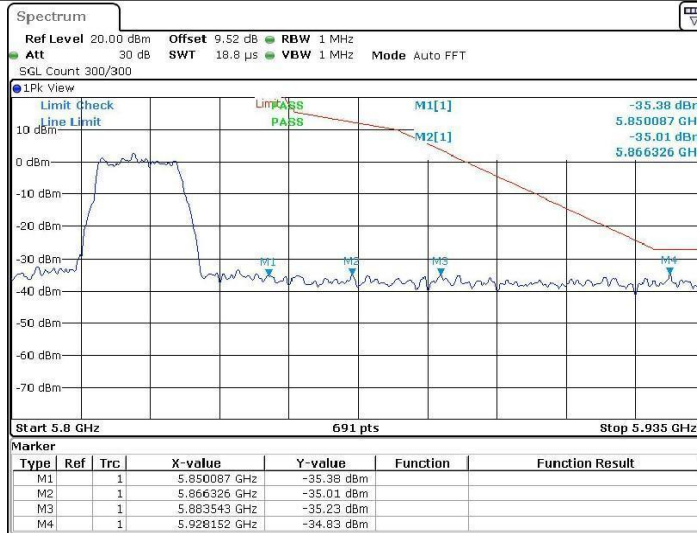
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11A_Ant1_Low_5745



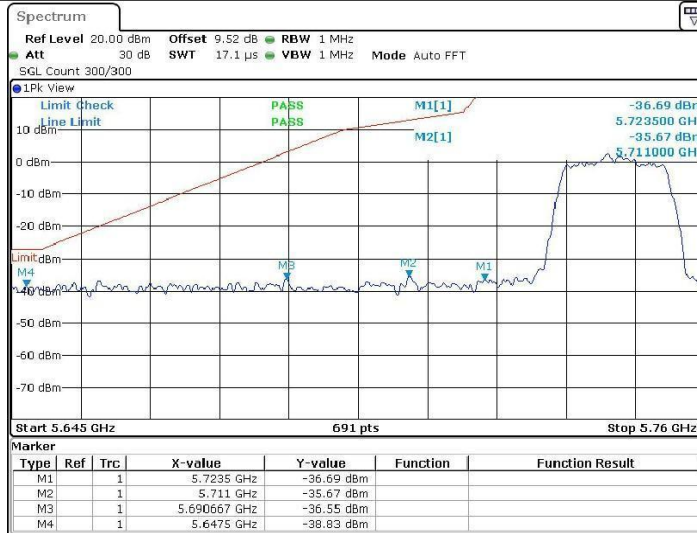
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11A_Ant1_High_5825



Date: 11 NOV. 2022 07:05:24

11N20SISO_Ant1_Low_5745



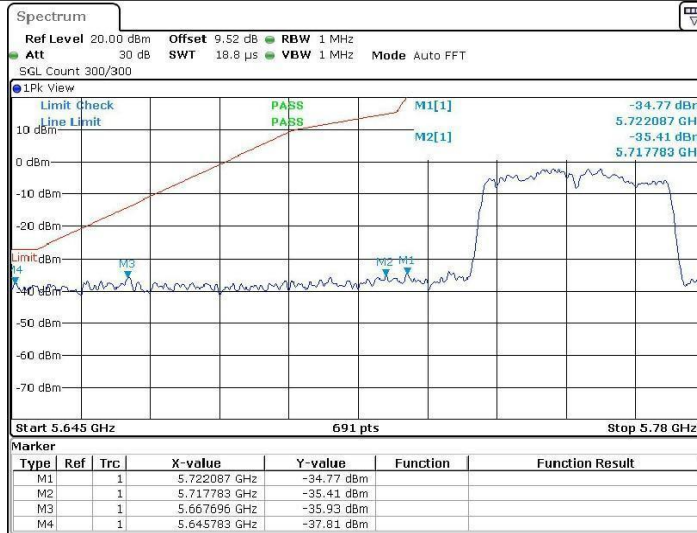
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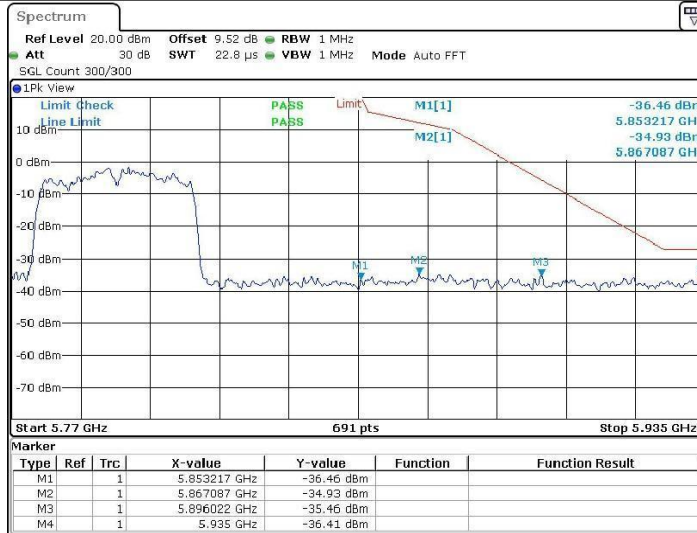
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11N40SISO_Ant1_Low_5755



Date: 11 NOV. 2022 07:12:20

11N40SISO_Ant1_High_5795



Date: 11 NOV. 2022 07:12:57