

Appendix G): Duty cycle

Test Result:

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.39	1.43	97.20
	Ant2	5180	1.39	1.43	97.20
	Ant1	5200	1.39	1.43	97.20
	Ant2	5200	1.39	1.43	97.20
	Ant1	5240	1.39	1.43	97.20
	Ant2	5240	1.39	1.43	97.20
	Ant1	5260	1.39	1.43	97.20
	Ant2	5260	1.39	1.43	97.20
	Ant1	5280	1.39	1.43	97.20
	Ant2	5280	1.39	1.43	97.20
	Ant1	5320	1.39	1.43	97.20
	Ant2	5320	1.39	1.43	97.20
	Ant1	5500	1.39	1.43	97.20
	Ant2	5500	1.39	1.43	97.20
	Ant1	5580	1.39	1.43	97.20
	Ant2	5580	1.38	1.43	96.50
	Ant1	5700	1.39	1.43	97.20
	Ant2	5700	1.39	1.43	97.20
	Ant1	5745	1.39	1.43	97.20
	Ant2	5745	1.39	1.43	97.20
	Ant1	5785	1.39	1.43	97.20
	Ant2	5785	1.39	1.43	97.20
	Ant1	5825	1.39	1.43	97.20
	Ant2	5825	1.39	1.43	97.20
11N20SISO	Ant1	5180	1.30	1.34	97.01
	Ant2	5180	1.30	1.34	97.01
	Ant1	5200	1.30	1.34	97.01
	Ant2	5200	1.30	1.34	97.01
	Ant1	5240	1.30	1.34	97.01
	Ant2	5240	1.30	1.34	97.01
	Ant1	5260	1.30	1.34	97.01

	Ant2	5260	1.30	1.34	97.01
	Ant1	5280	1.30	1.34	97.01
	Ant2	5280	1.30	1.34	97.01
	Ant1	5320	1.30	1.34	97.01
	Ant2	5320	1.30	1.34	97.01
	Ant1	5500	1.30	1.34	97.01
	Ant2	5500	1.30	1.34	97.01
	Ant1	5580	1.30	1.34	97.01
	Ant2	5580	1.30	1.34	97.01
	Ant1	5700	1.30	1.34	97.01
	Ant2	5700	1.30	1.34	97.01
	Ant1	5745	1.30	1.34	97.01
	Ant2	5745	1.30	1.34	97.01
	Ant1	5785	1.30	1.34	97.01
	Ant2	5785	1.30	1.34	97.01
	Ant1	5825	1.30	1.34	97.01
	Ant2	5825	1.30	1.34	97.01
11N40SISO	Ant1	5190	0.64	0.68	94.12
	Ant2	5190	0.64	0.68	94.12
	Ant1	5230	0.64	0.68	94.12
	Ant2	5230	0.64	0.68	94.12
	Ant1	5270	0.64	0.68	94.12
	Ant2	5270	0.64	0.68	94.12
	Ant1	5310	0.64	0.68	94.12
	Ant2	5310	0.64	0.68	94.12
	Ant1	5510	0.64	0.68	94.12
	Ant2	5510	0.64	0.68	94.12
	Ant1	5550	0.64	0.68	94.12
	Ant2	5550	0.64	0.68	94.12
	Ant1	5670	0.64	0.68	94.12
	Ant2	5670	0.64	0.68	94.12
	Ant1	5755	0.64	0.68	94.12
	Ant2	5755	0.64	0.68	94.12
	Ant1	5795	0.64	0.68	94.12
	Ant2	5795	0.64	0.68	94.12
11AC20SISO	Ant1	5180	1.31	1.35	97.04

	Ant2	5180	1.31	1.35	97.04
	Ant1	5200	1.31	1.35	97.04
	Ant2	5200	1.31	1.35	97.04
	Ant1	5240	1.31	1.35	97.04
	Ant2	5240	1.31	1.35	97.04
	Ant1	5260	1.31	1.35	97.04
	Ant2	5260	1.31	1.35	97.04
	Ant1	5280	1.31	1.35	97.04
	Ant2	5280	1.31	1.35	97.04
	Ant1	5320	1.31	1.35	97.04
	Ant2	5320	1.31	1.35	97.04
	Ant1	5500	1.31	1.35	97.04
	Ant2	5500	1.31	1.35	97.04
	Ant1	5580	1.31	1.35	97.04
	Ant2	5580	1.31	1.35	97.04
	Ant1	5700	1.31	1.35	97.04
	Ant2	5700	1.31	1.35	97.04
	Ant1	5745	1.31	1.35	97.04
	Ant2	5745	1.31	1.35	97.04
	Ant1	5785	1.31	1.35	97.04
	Ant2	5785	1.31	1.35	97.04
	Ant1	5825	1.31	1.35	97.04
	Ant2	5825	1.31	1.35	97.04
11AC40SISO	Ant1	5190	0.65	0.69	94.20
	Ant2	5190	0.65	0.69	94.20
	Ant1	5230	0.65	0.69	94.20
	Ant2	5230	0.65	0.69	94.20
	Ant1	5270	0.65	0.69	94.20
	Ant2	5270	0.65	0.69	94.20
	Ant1	5310	0.65	0.69	94.20
	Ant2	5310	0.65	0.69	94.20
	Ant1	5510	0.65	0.69	94.20
	Ant2	5510	0.65	0.69	94.20
	Ant1	5550	0.65	0.69	94.20
	Ant2	5550	0.65	0.69	94.20
	Ant1	5670	0.65	0.69	94.20

	Ant2	5670	0.65	0.69	94.20
	Ant1	5755	0.65	0.69	94.20
	Ant2	5755	0.65	0.69	94.20
	Ant1	5795	0.65	0.69	94.20
	Ant2	5795	0.65	0.69	94.20
11AC80SISO	Ant1	5210	0.32	0.36	88.89
	Ant2	5210	0.32	0.36	88.89
	Ant1	5290	0.32	0.36	88.89
	Ant2	5290	0.32	0.36	88.89
	Ant1	5530	0.32	0.36	88.89
	Ant2	5530	0.32	0.36	88.89
	Ant1	5610	0.32	0.36	88.89
	Ant2	5610	0.32	0.36	88.89
	Ant1	5775	0.32	0.36	88.89
	Ant2	5775	0.32	0.36	88.89
11N20MIMO	Ant1	5180	1.30	1.34	97.01
	Ant2	5180	1.30	1.34	97.01
	Ant1	5200	1.30	1.34	97.01
	Ant2	5200	1.30	1.34	97.01
	Ant1	5240	1.30	1.34	97.01
	Ant2	5240	1.30	1.34	97.01
	Ant1	5260	1.30	1.34	97.01
	Ant2	5260	1.30	1.34	97.01
	Ant1	5280	1.30	1.34	97.01
	Ant2	5280	1.30	1.34	97.01
	Ant1	5320	1.30	1.34	97.01
	Ant2	5320	1.30	1.34	97.01
	Ant1	5500	1.30	1.34	97.01
	Ant2	5500	1.30	1.34	97.01
	Ant1	5580	1.30	1.34	97.01
	Ant2	5580	1.30	1.34	97.01
	Ant1	5700	1.30	1.34	97.01
	Ant2	5700	1.30	1.34	97.01
	Ant1	5745	1.30	1.34	97.01
	Ant2	5745	1.30	1.34	97.01
	Ant1	5785	1.30	1.34	97.01

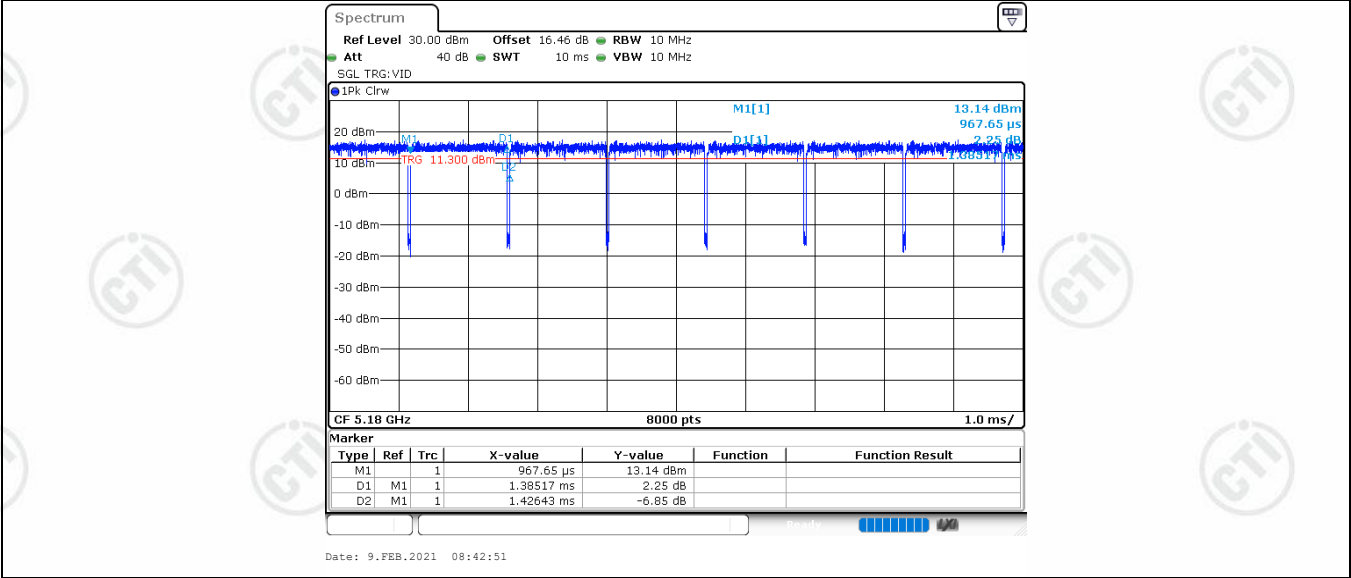
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	Ant2	5825	1.30	1.34	97.01
11N40MIMO	Ant1	5190	0.64	0.68	94.12
	Ant2	5190	0.64	0.68	94.12
	Ant1	5230	0.64	0.68	94.12
	Ant2	5230	0.64	0.68	94.12
	Ant1	5270	0.64	0.68	94.12
	Ant2	5270	0.64	0.68	94.12
	Ant1	5310	0.64	0.68	94.12
	Ant2	5310	0.64	0.68	94.12
	Ant1	5510	0.64	0.68	94.12
	Ant2	5510	0.64	0.68	94.12
	Ant1	5550	0.64	0.68	94.12
	Ant2	5550	0.64	0.68	94.12
	Ant1	5670	0.64	0.68	94.12
	Ant2	5670	0.64	0.68	94.12
	Ant1	5755	0.64	0.68	94.12
	Ant2	5755	0.64	0.68	94.12
	Ant1	5795	0.64	0.68	94.12
	Ant2	5795	0.64	0.68	94.12
11AC20MIMO	Ant1	5180	1.31	1.35	97.04
	Ant2	5180	1.31	1.35	97.04
	Ant1	5200	1.31	1.35	97.04
	Ant2	5200	1.31	1.35	97.04
	Ant1	5240	1.31	1.35	97.04
	Ant2	5240	1.31	1.35	97.04
	Ant1	5260	1.31	1.35	97.04
	Ant2	5260	1.31	1.35	97.04
	Ant1	5280	1.31	1.35	97.04
	Ant2	5280	1.31	1.35	97.04
	Ant1	5320	1.31	1.35	97.04
	Ant2	5320	1.31	1.35	97.04
	Ant1	5500	1.31	1.35	97.04
	Ant2	5500	1.31	1.35	97.04
	Ant1	5580	1.31	1.35	97.04

	Ant2	5580	1.31	1.35	97.04
	Ant1	5700	1.31	1.35	97.04
	Ant2	5700	1.31	1.35	97.04
	Ant1	5745	1.31	1.35	97.04
	Ant2	5745	1.31	1.35	97.04
	Ant1	5785	1.31	1.35	97.04
	Ant2	5785	1.31	1.35	97.04
	Ant1	5825	1.31	1.35	97.04
	Ant2	5825	1.31	1.35	97.04
11AC40MIMO	Ant1	5190	0.65	0.69	94.20
	Ant2	5190	0.65	0.69	94.20
	Ant1	5230	0.65	0.69	94.20
	Ant2	5230	0.65	0.69	94.20
	Ant1	5270	0.65	0.69	94.20
	Ant2	5270	0.65	0.69	94.20
	Ant1	5310	0.65	0.69	94.20
	Ant2	5310	0.65	0.69	94.20
	Ant1	5510	0.65	0.69	94.20
	Ant2	5510	0.65	0.69	94.20
	Ant1	5550	0.65	0.69	94.20
	Ant2	5550	0.65	0.69	94.20
	Ant1	5670	0.65	0.69	94.20
	Ant2	5670	0.65	0.69	94.20
	Ant1	5755	0.65	0.69	94.20
	Ant2	5755	0.65	0.69	94.20
	Ant1	5795	0.65	0.69	94.20
	Ant2	5795	0.65	0.69	94.20
11AC80MIMO	Ant1	5210	0.32	0.36	88.89
	Ant2	5210	0.32	0.36	88.89
	Ant1	5290	0.32	0.36	88.89
	Ant2	5290	0.32	0.36	88.89
	Ant1	5530	0.32	0.36	88.89
	Ant2	5530	0.32	0.36	88.89
	Ant1	5610	0.32	0.36	88.89
	Ant2	5610	0.32	0.36	88.89
	Ant1	5775	0.32	0.36	88.89

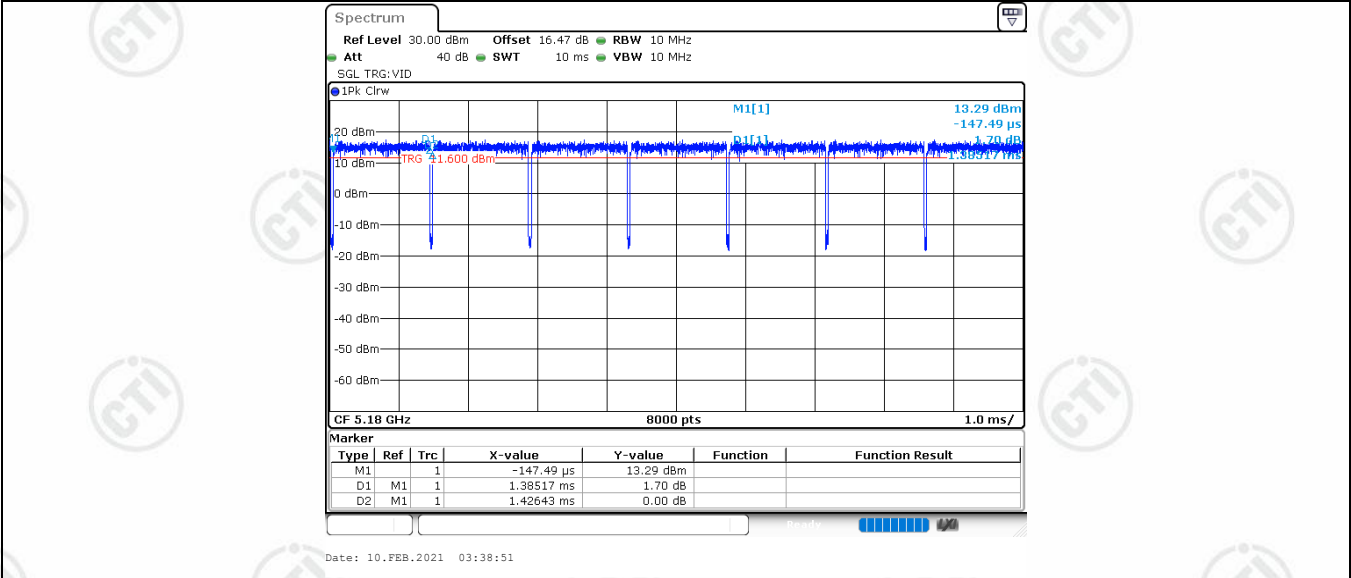
Report No. : EED39N00008304

	Ant2	5775	0.32	0.36	88.89
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Test Graphs



11A_Ant1_5180



11A_Ant2_5180



Report No. : EED39N00008304



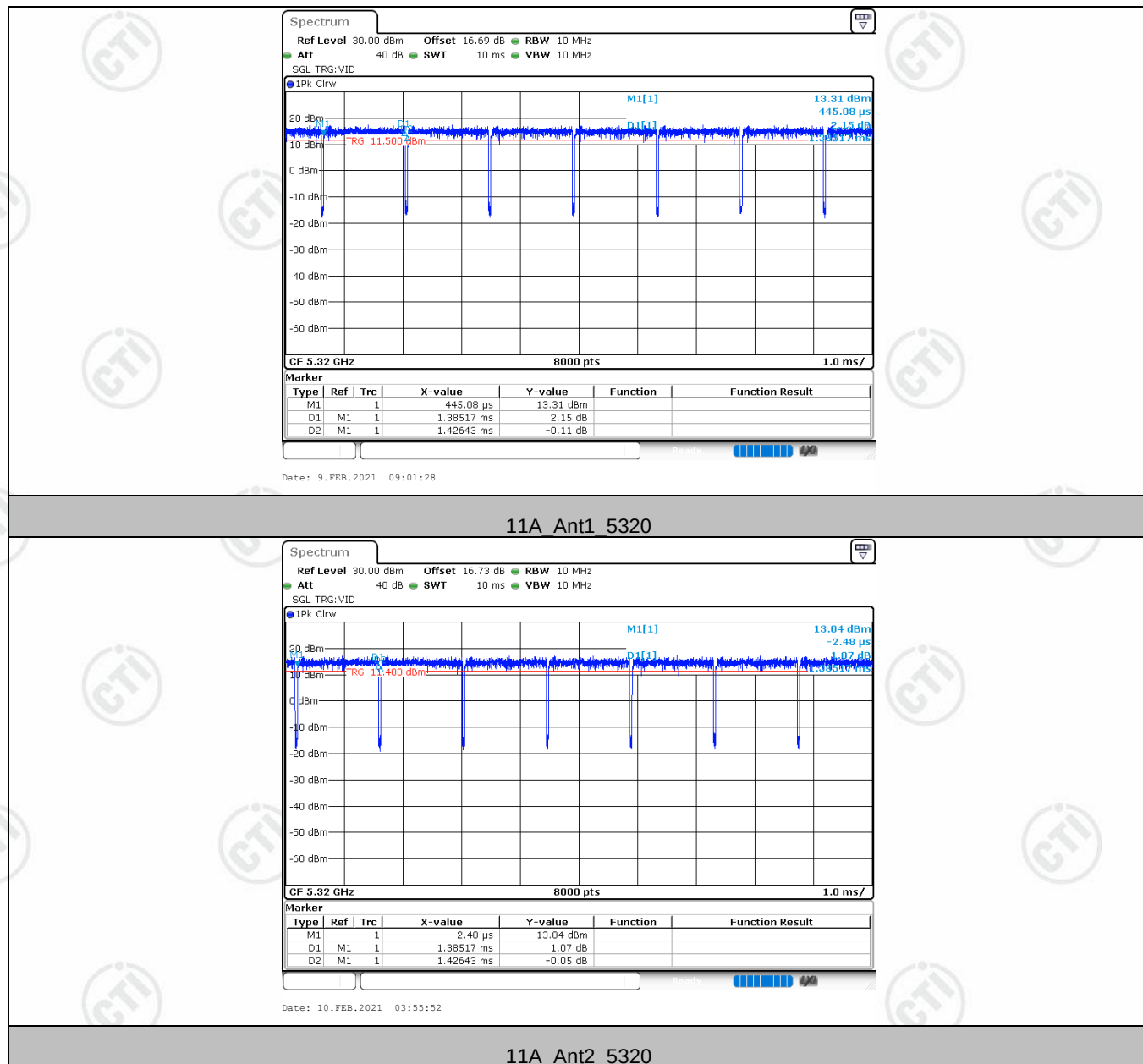
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Report No. : EED39N00008304



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Report No. : EED39N00008304



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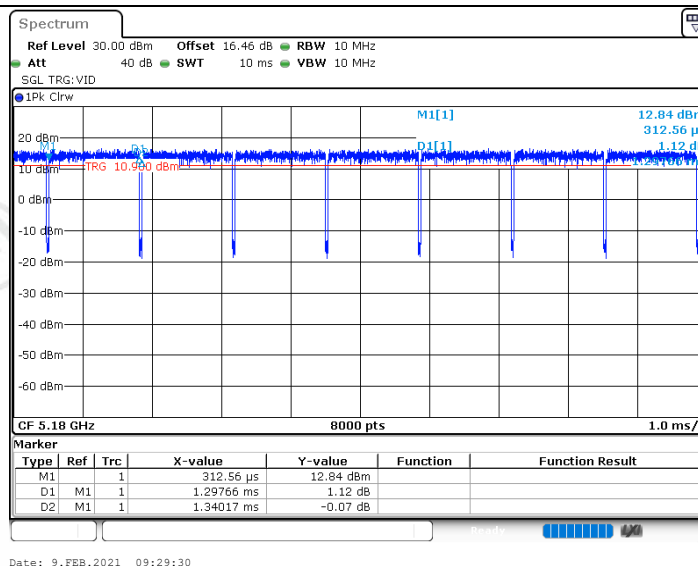
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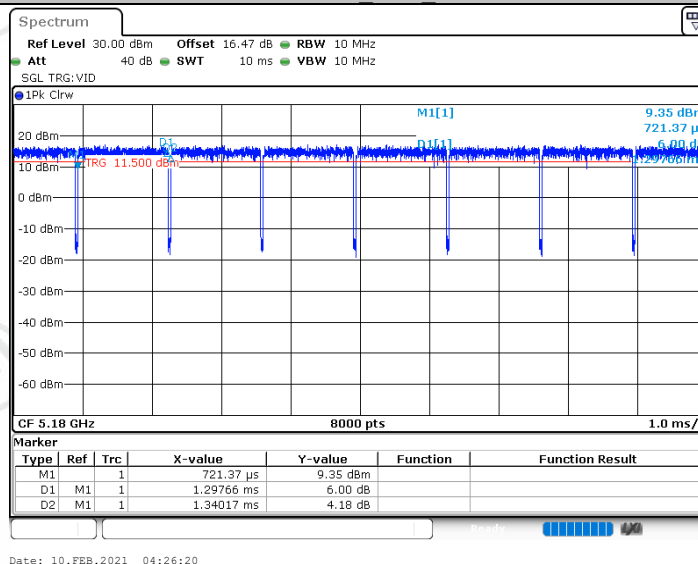
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Report No. : EED39N00008304



11N20SISO Ant1 5180



11N20SISO Ant2 5180

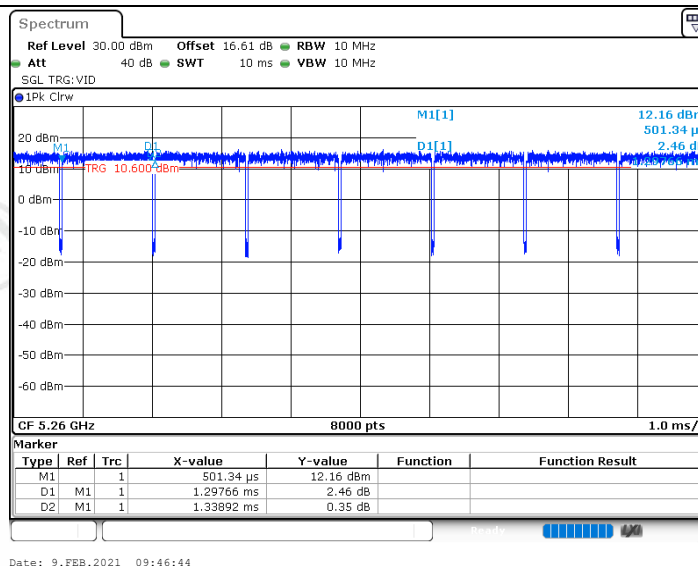
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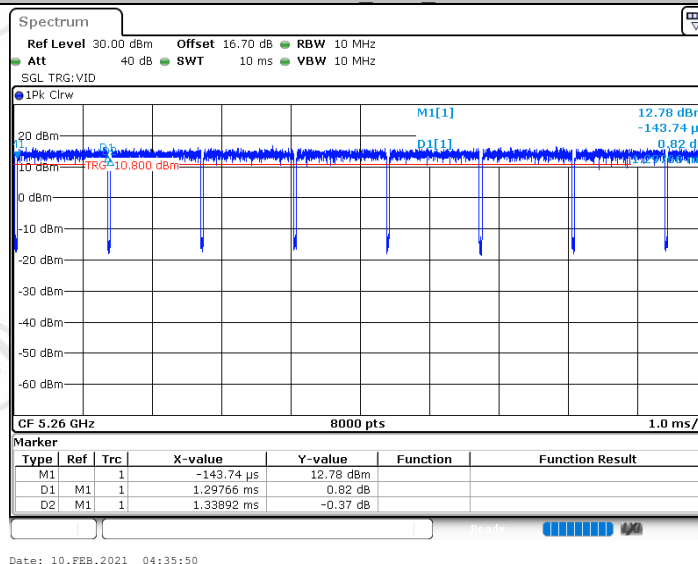
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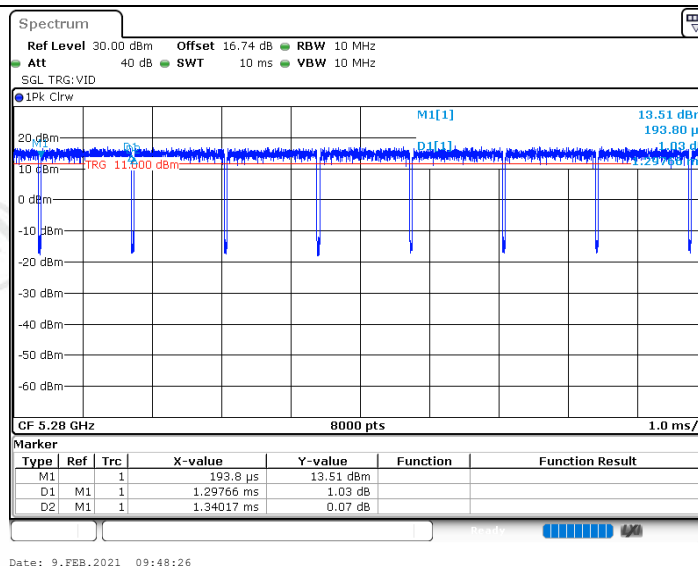


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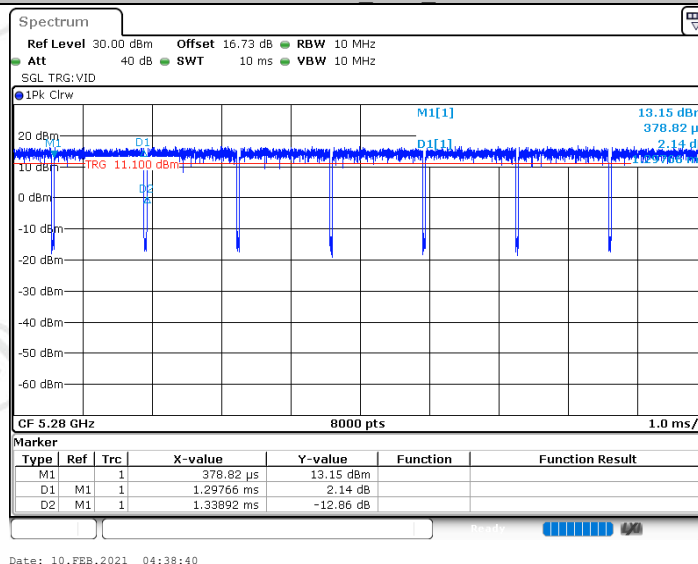


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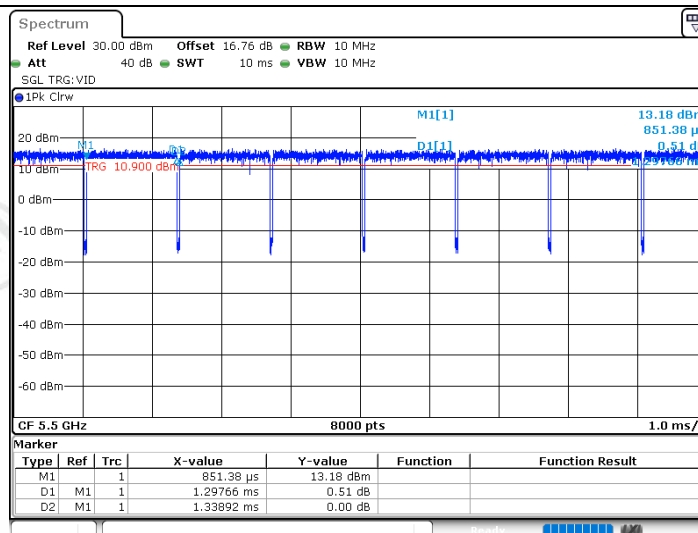


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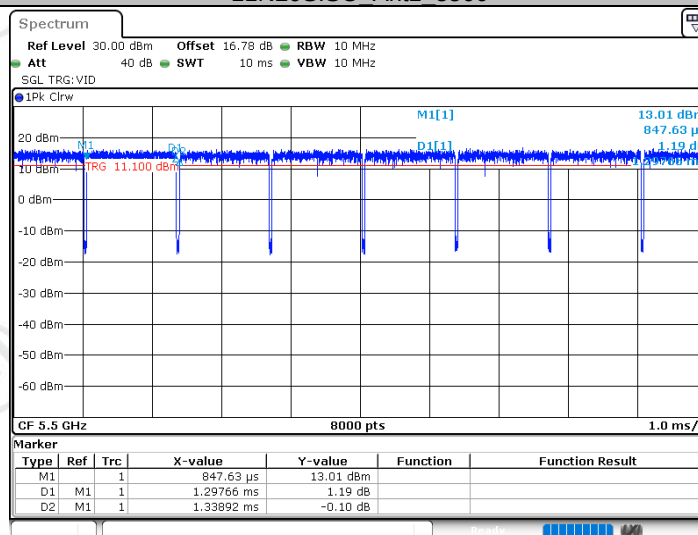


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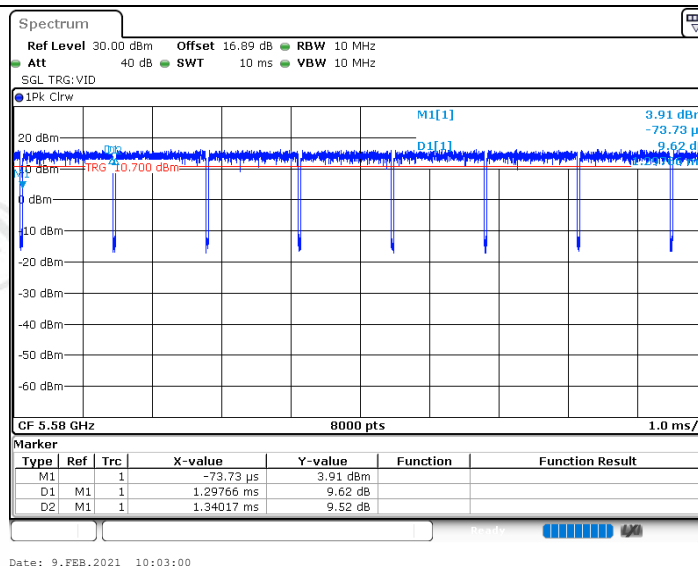
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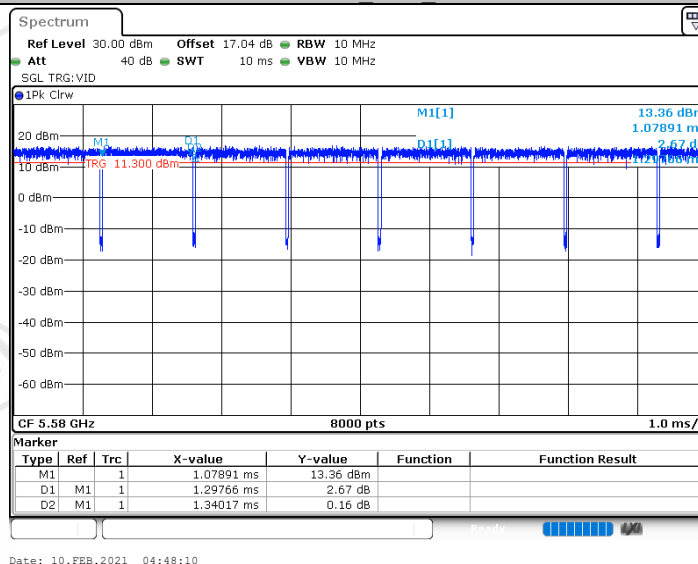
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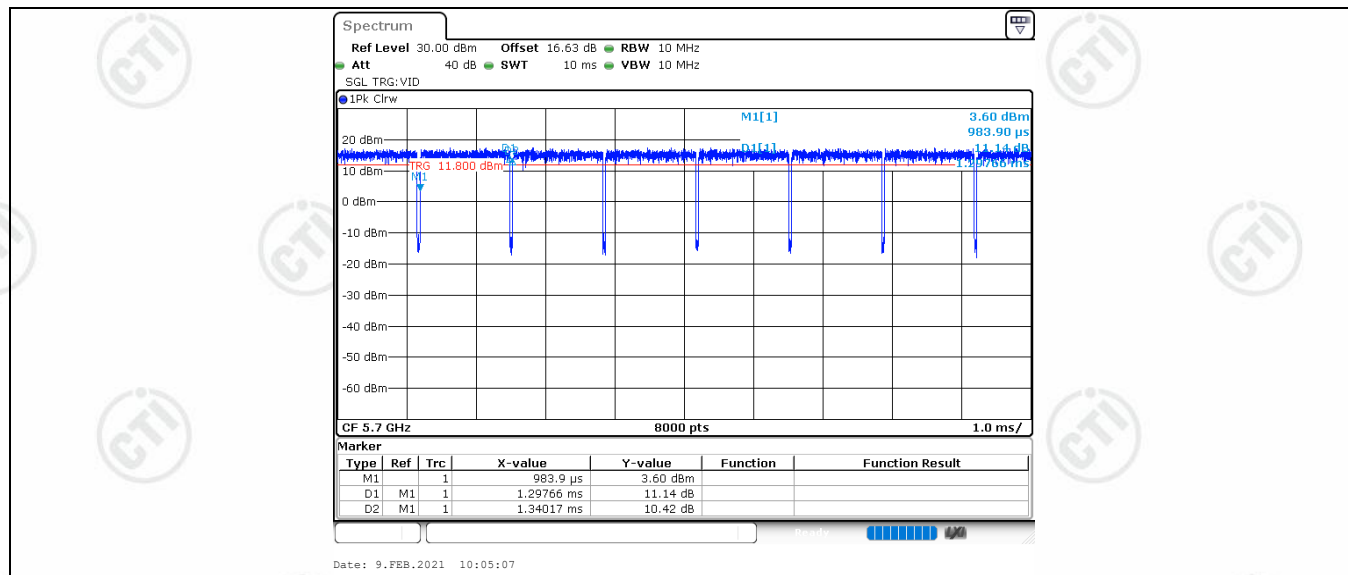


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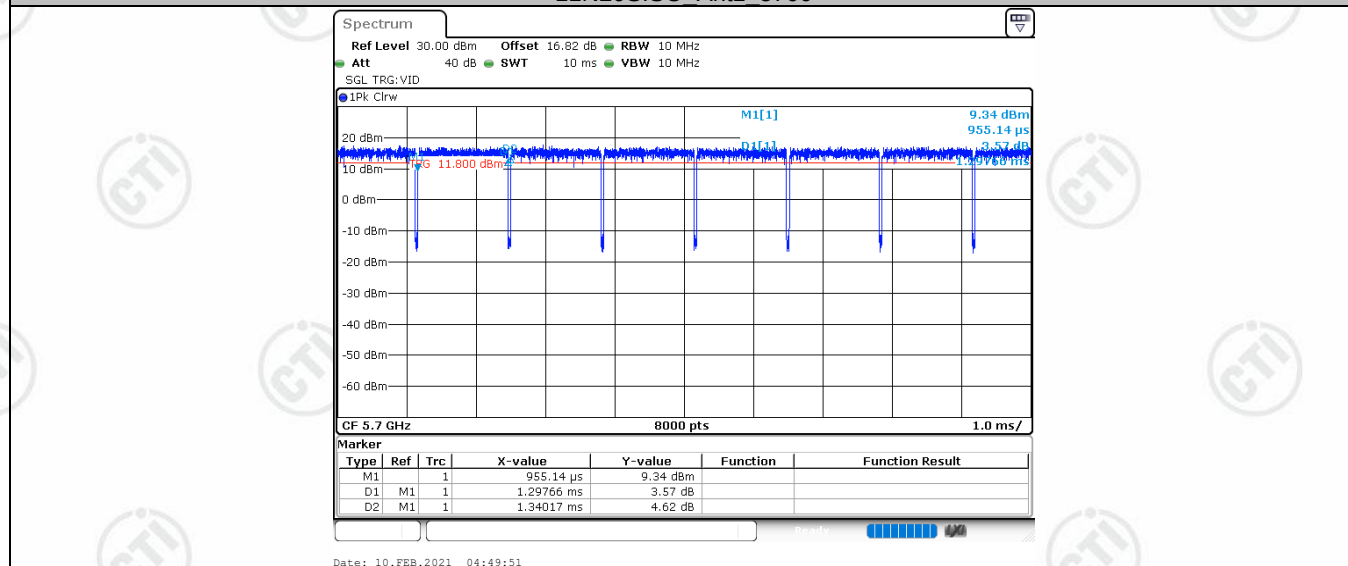


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11N20SISO Ant1 5700



11N20SISO Ant2 5700

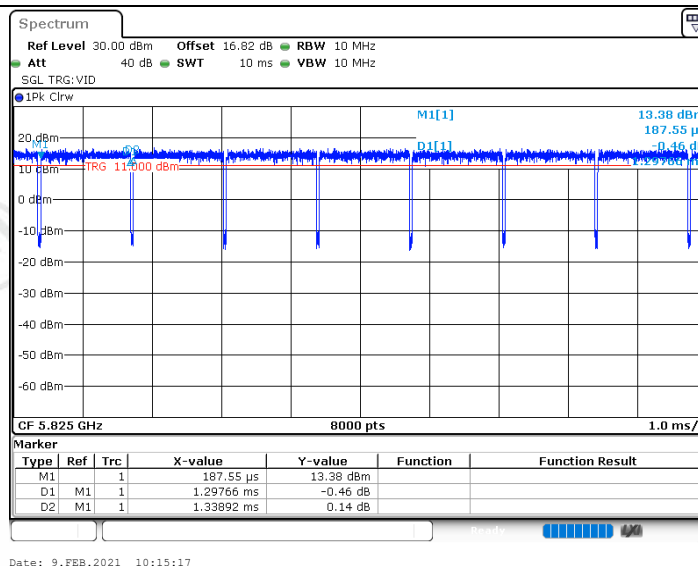
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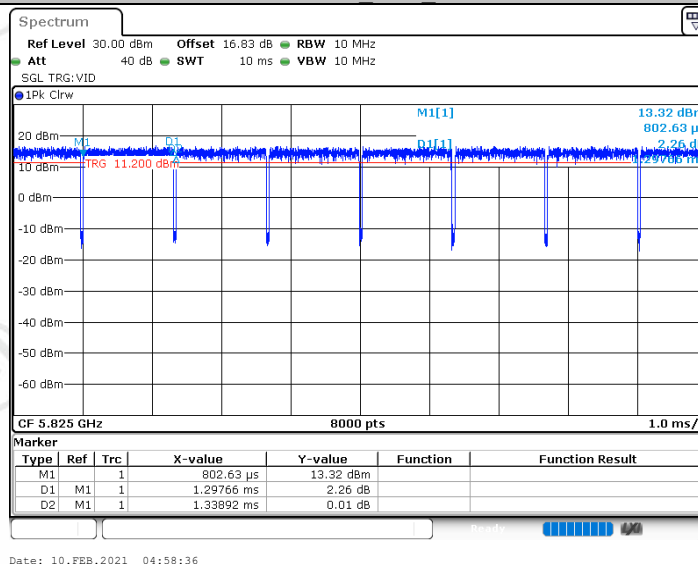
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Report No. : EED39N00008304



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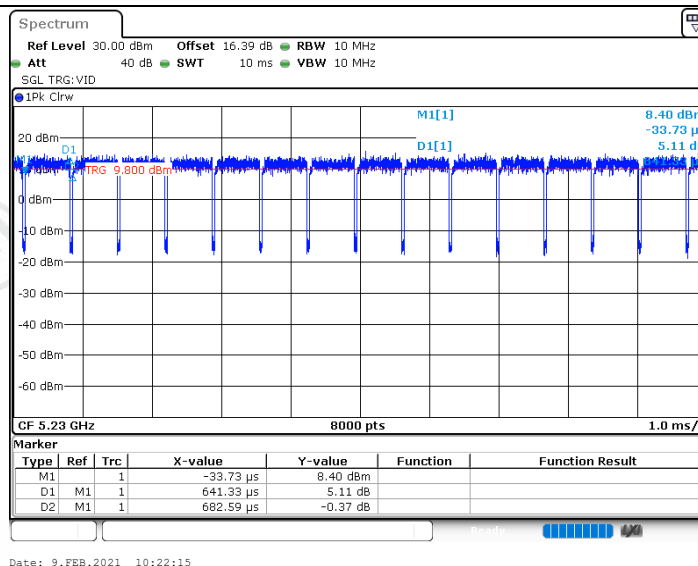


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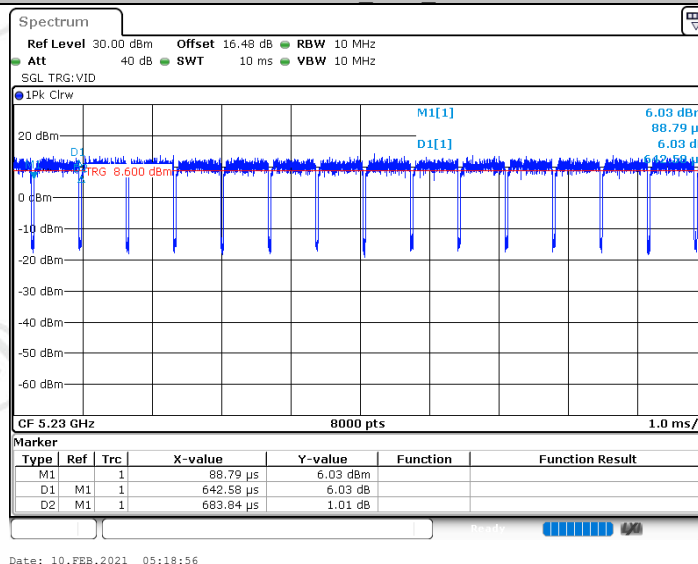
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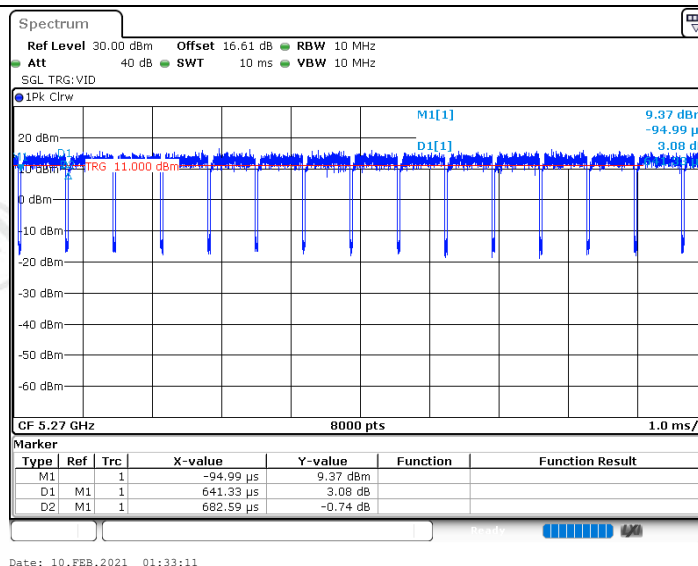


11N40SISO Ant1 5230

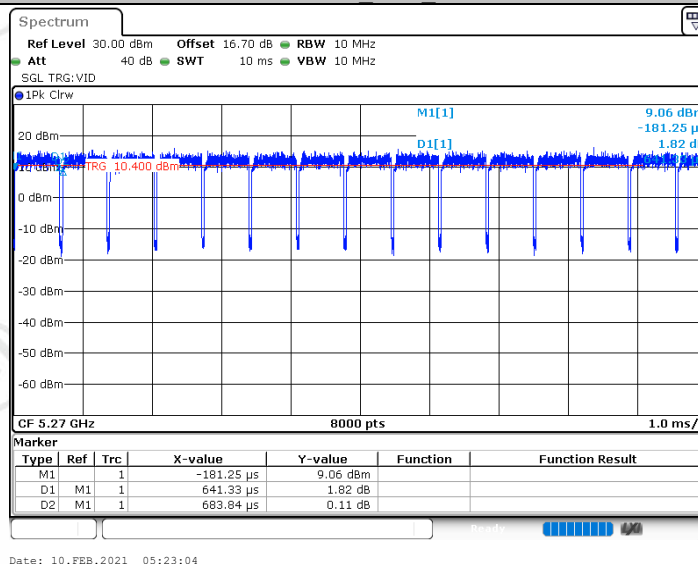


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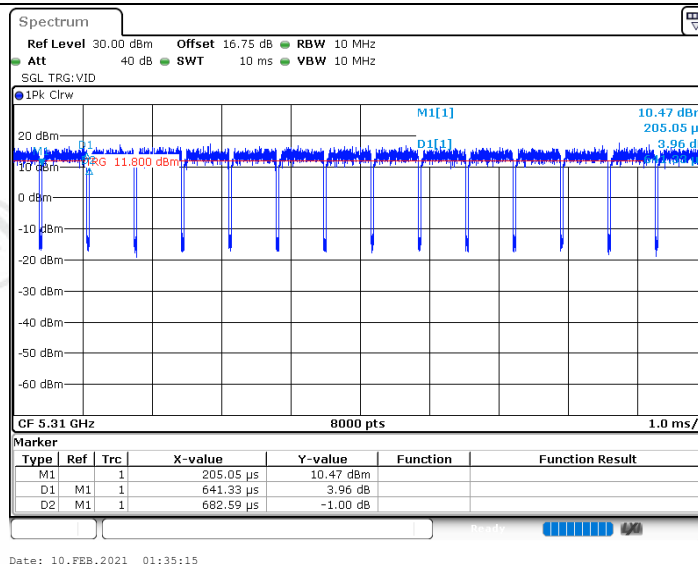


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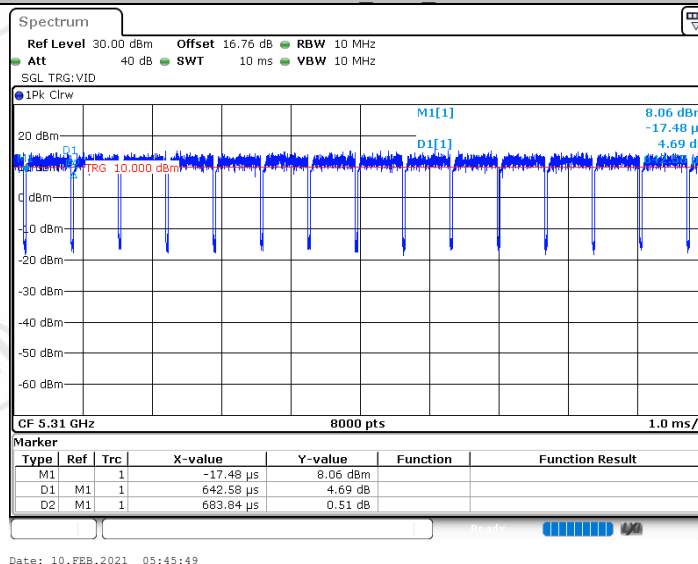


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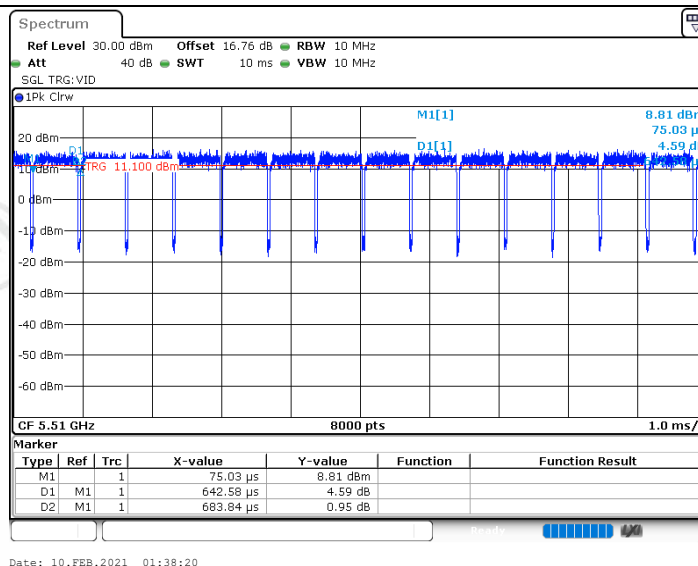


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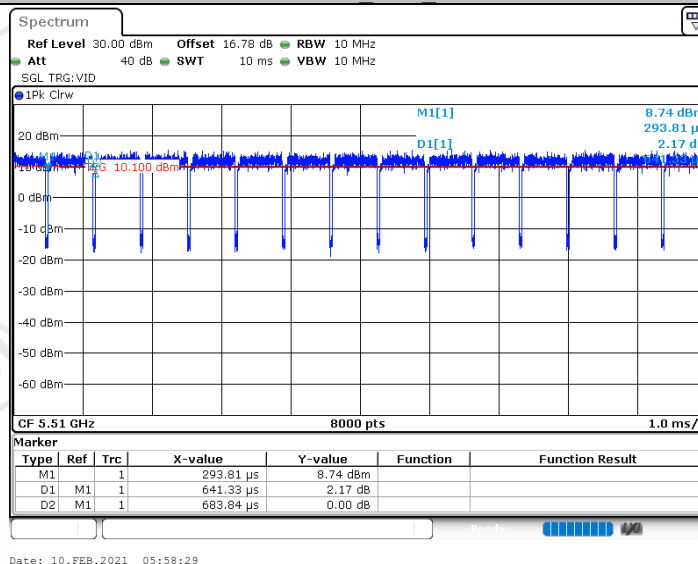


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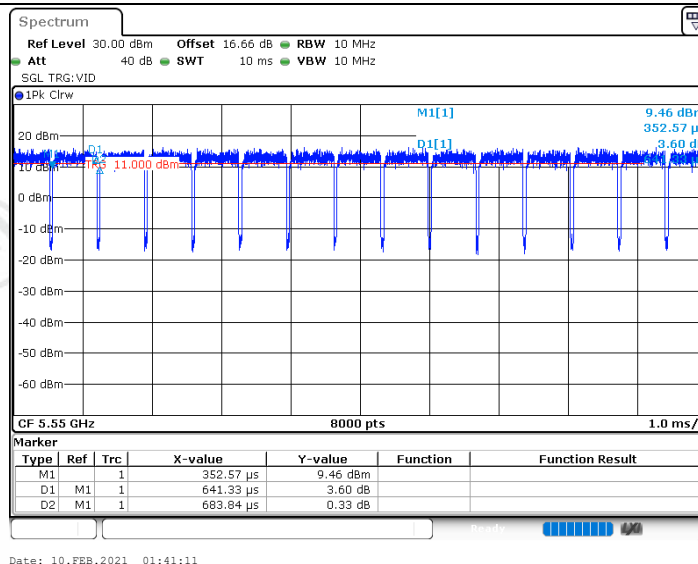


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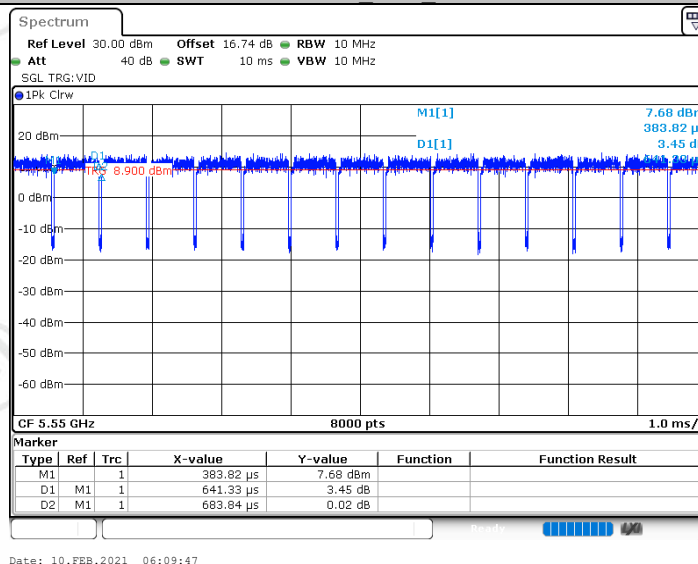


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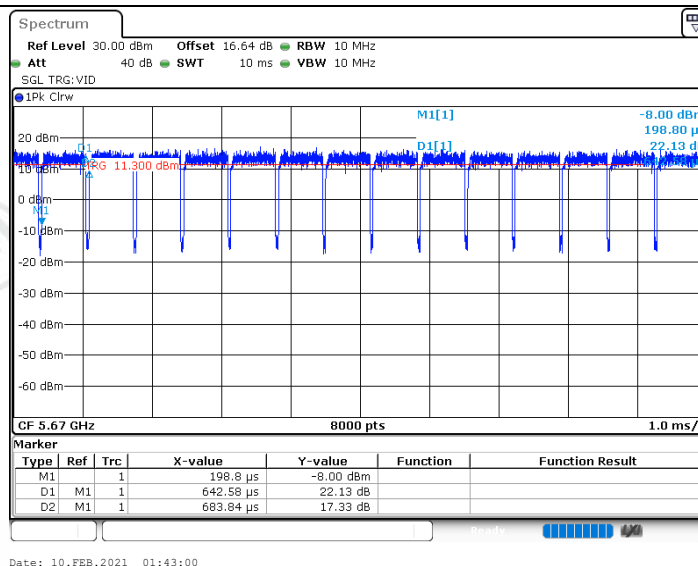


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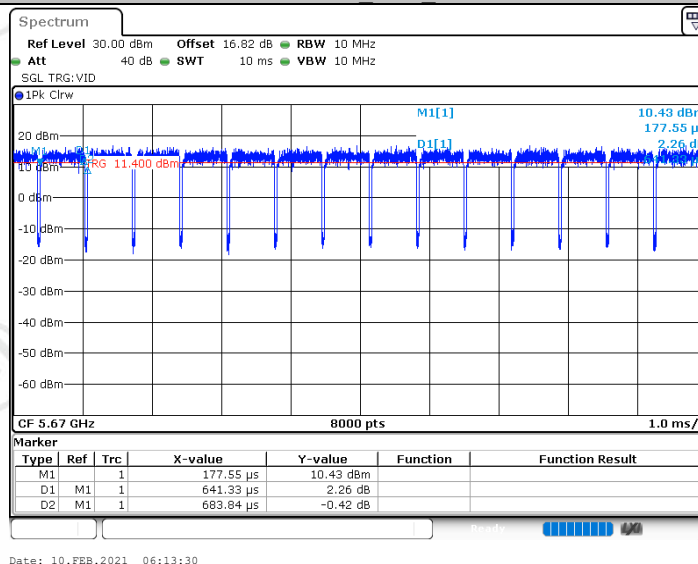


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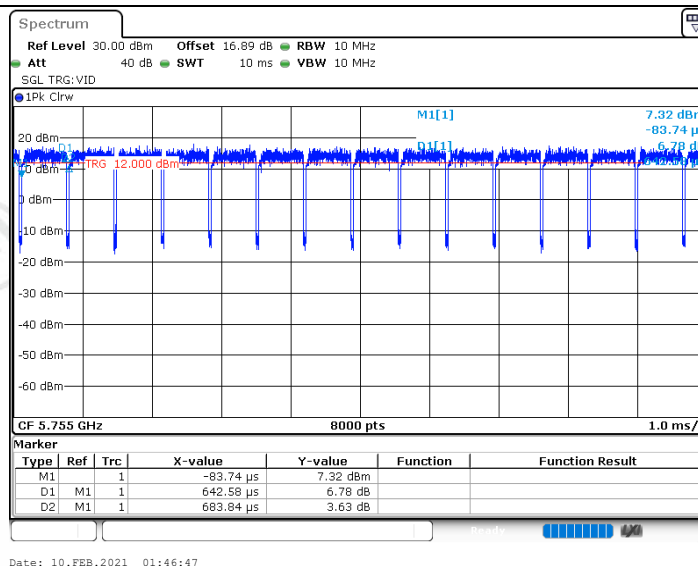


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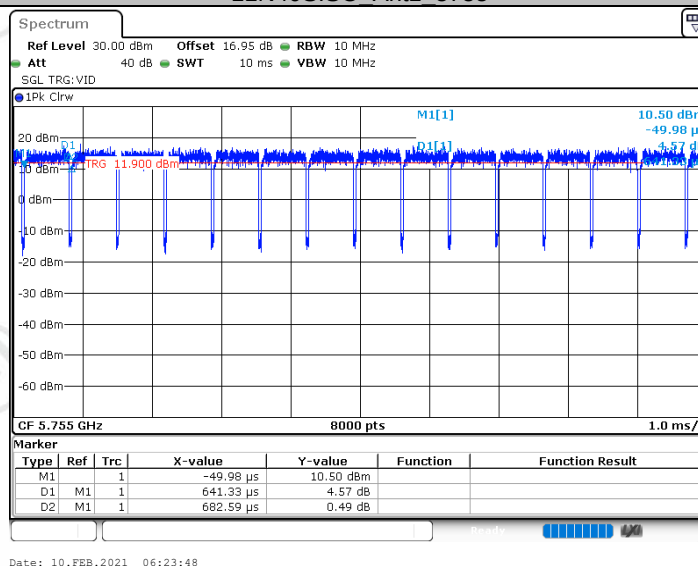


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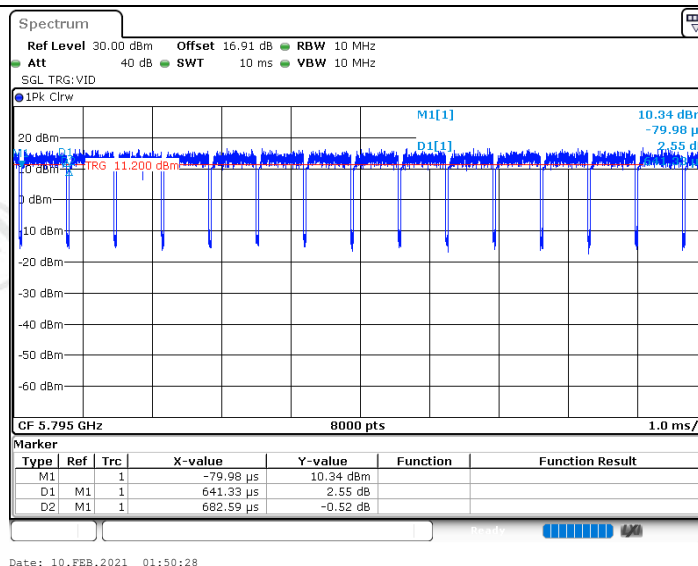


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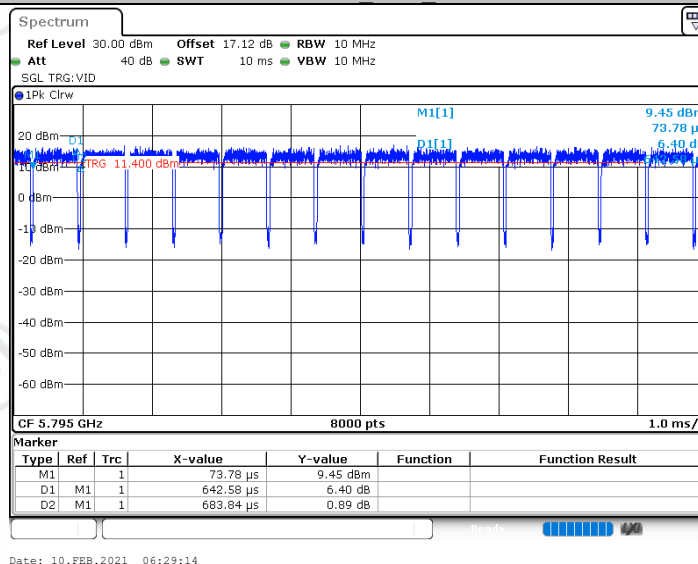


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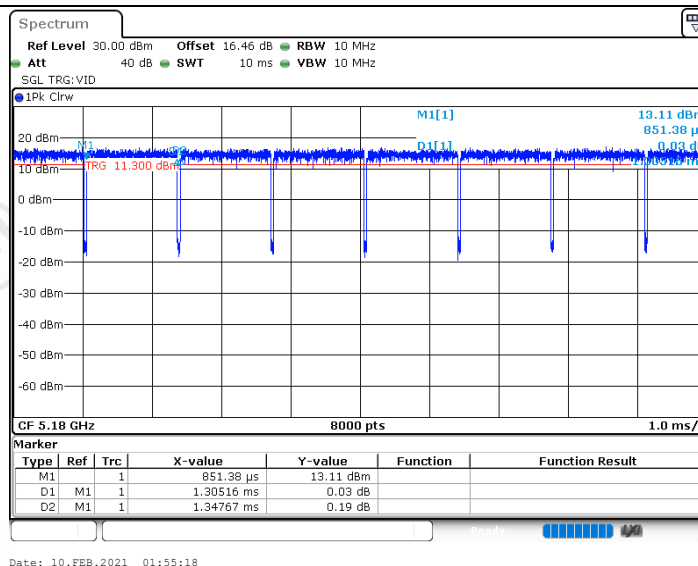


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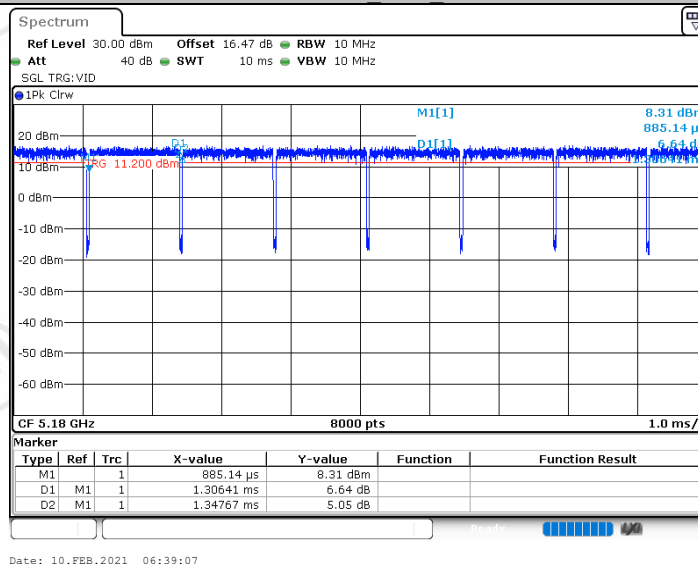


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11AC20SISO Ant1 5180

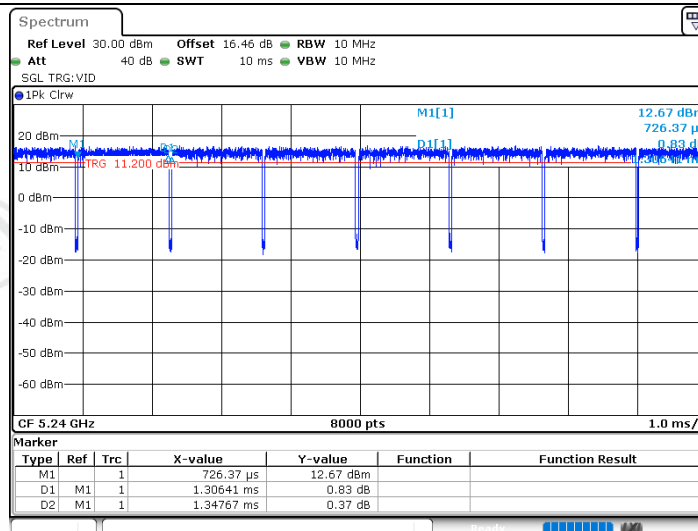


11AC20SISO Ant2 5180

Report No. : EED39N00008304

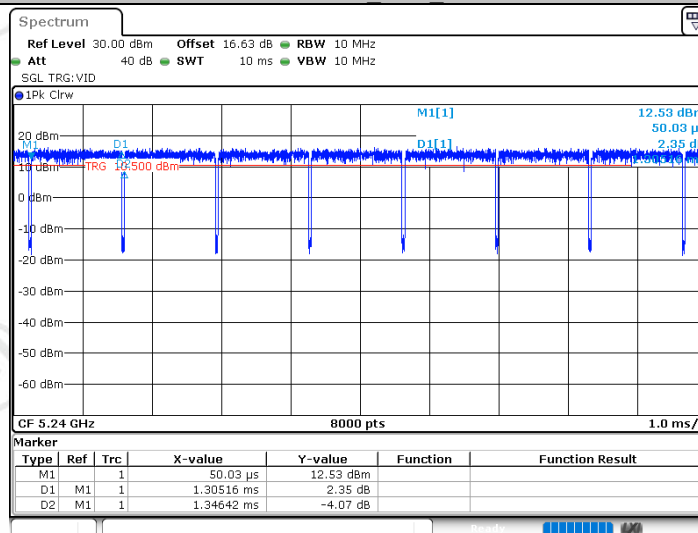


Report No. : EED39N00008304



Date: 10.FEB.2021 02:01:34

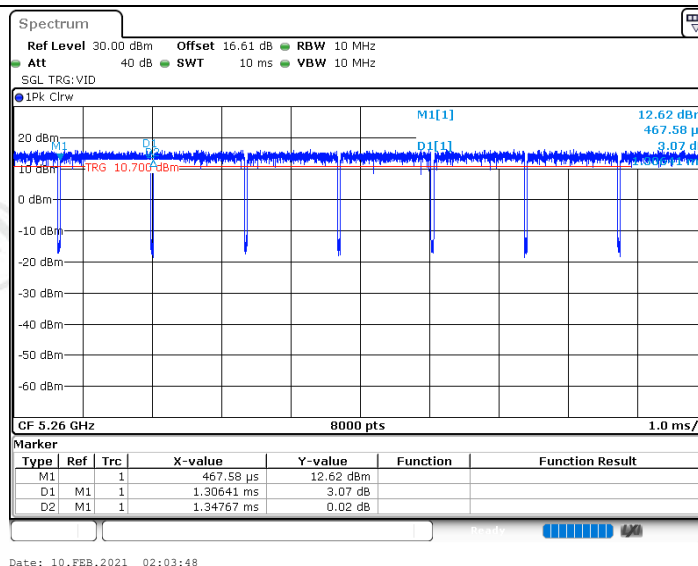
11AC20SISO_Ant1_5240



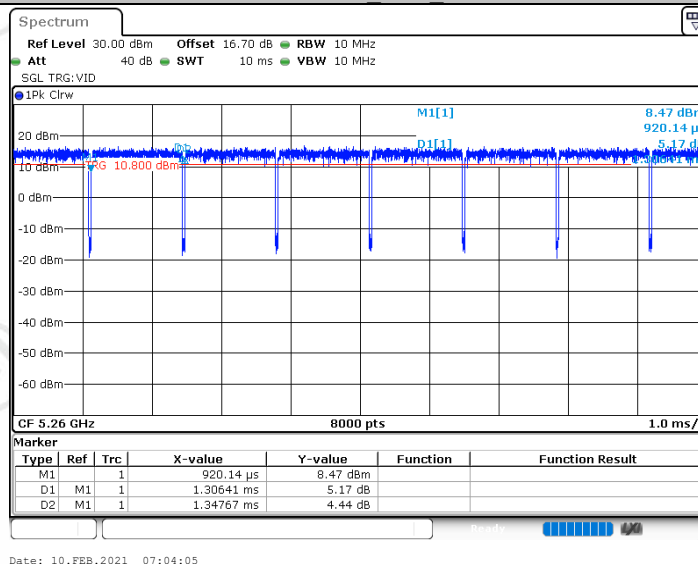
Date: 10.FEB.2021 06:48:44

11AC20SISO_Ant2_5240

Report No. : EED39N00008304

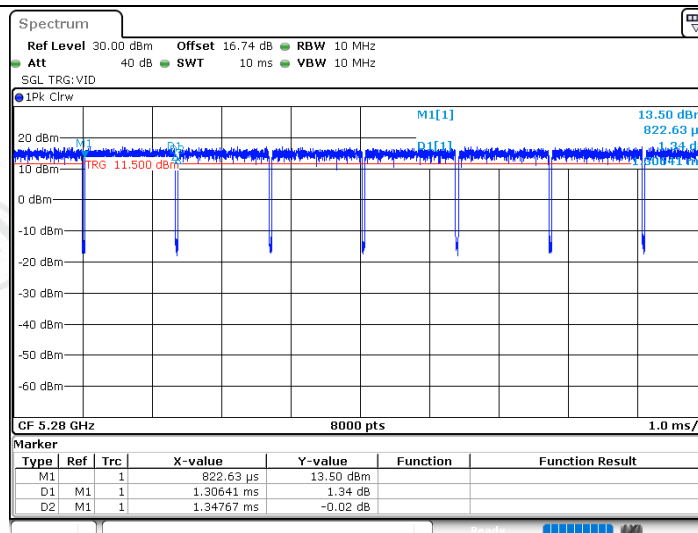


11AC20SISO_Ant1_5260



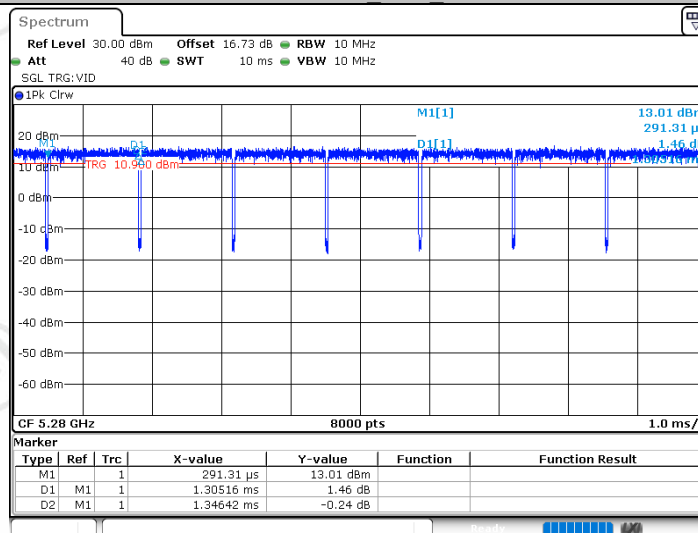
11AC20SISO_Ant2_5260

Report No. : EED39N00008304



Date: 10.FEB.2021 02:05:37

11AC20SISO_Ant1_5280



Date: 10.FEB.2021 07:11:35

11AC20SISO_Ant2_5280

Report No. : EED39N00008304



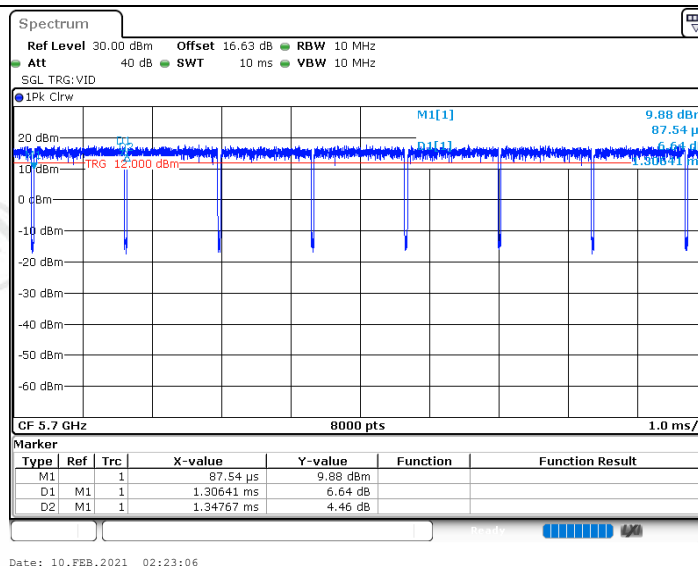
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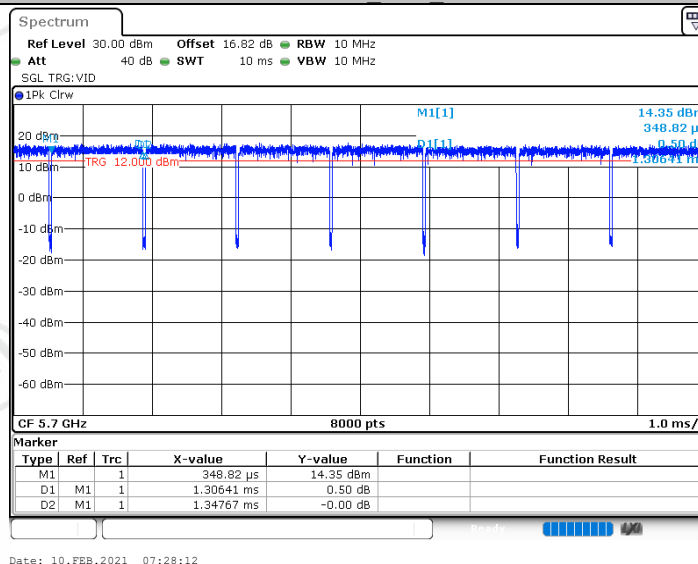
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Report No. : EED39N00008304



11AC20SISO_Ant1_5700

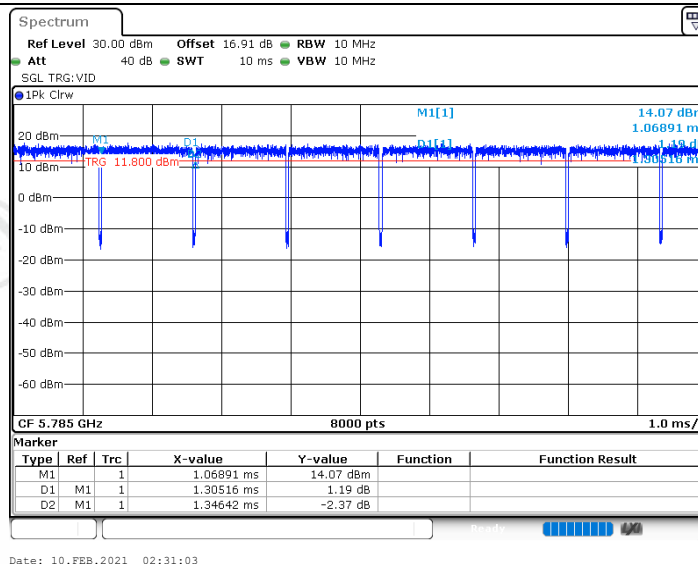


11AC20SISO_Ant2_5700

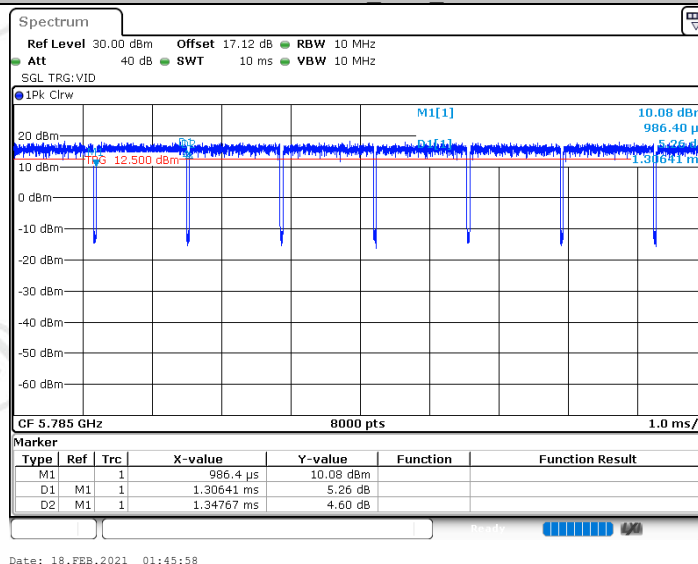
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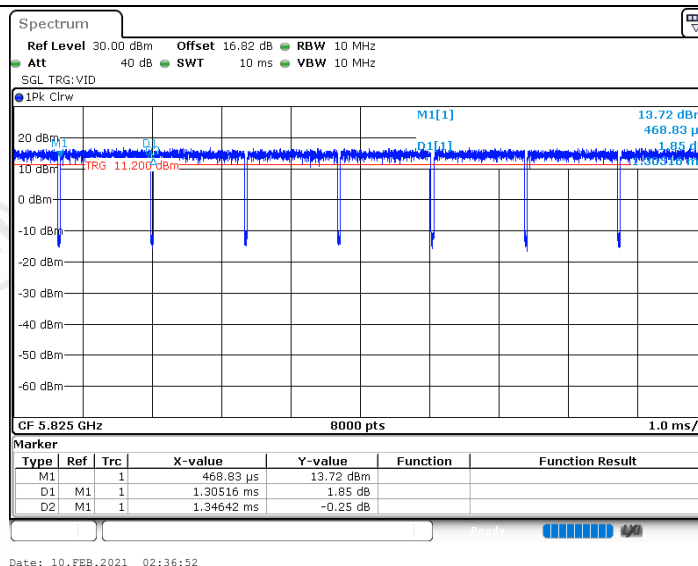


11AC20SISO Ant1 5785

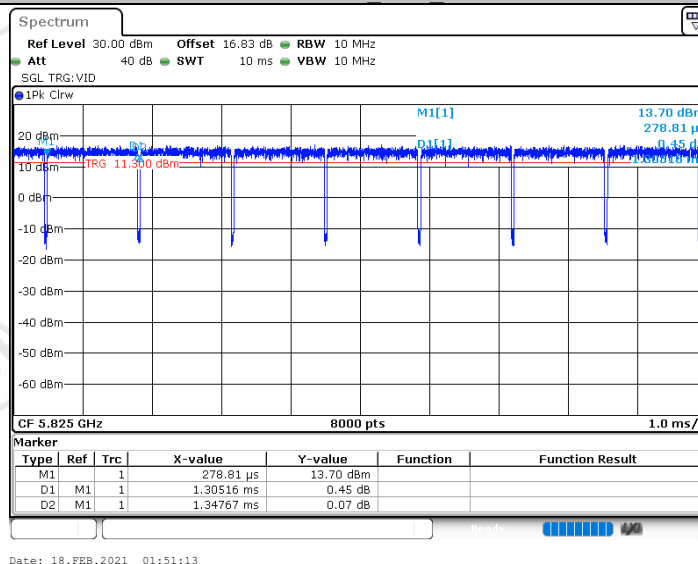


11AC20SISO Ant2 5785

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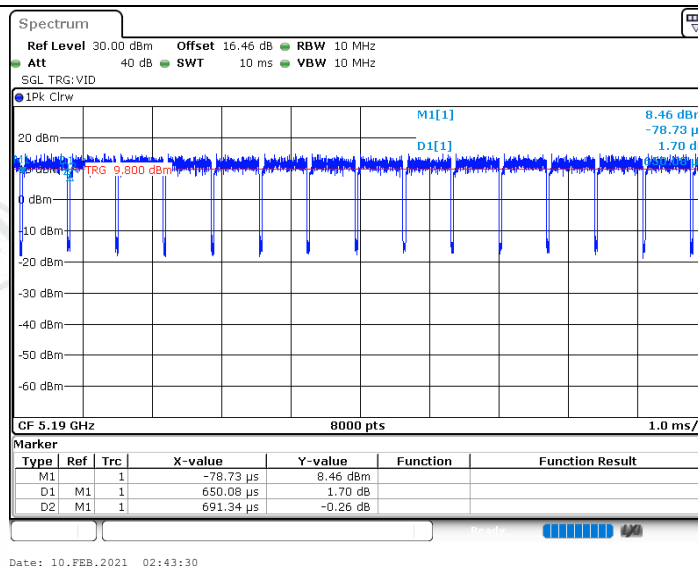


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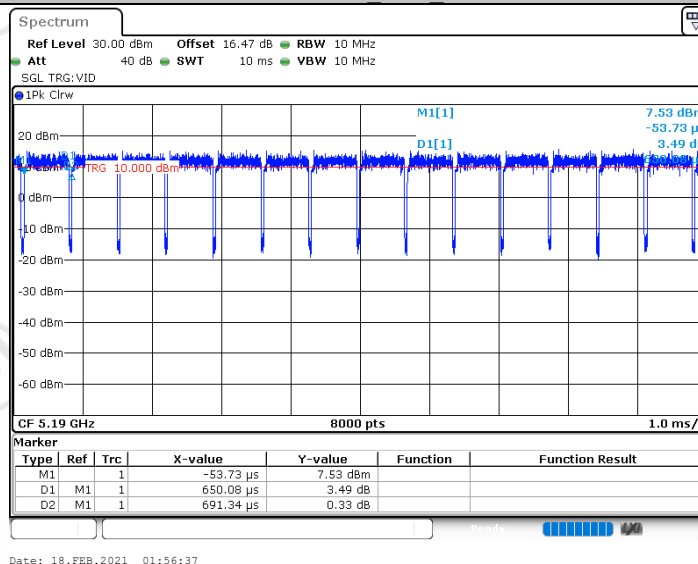


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Report No. : EED39N00008304



11AC40SISO Ant1 5190



11AC40SISO Ant2 5190

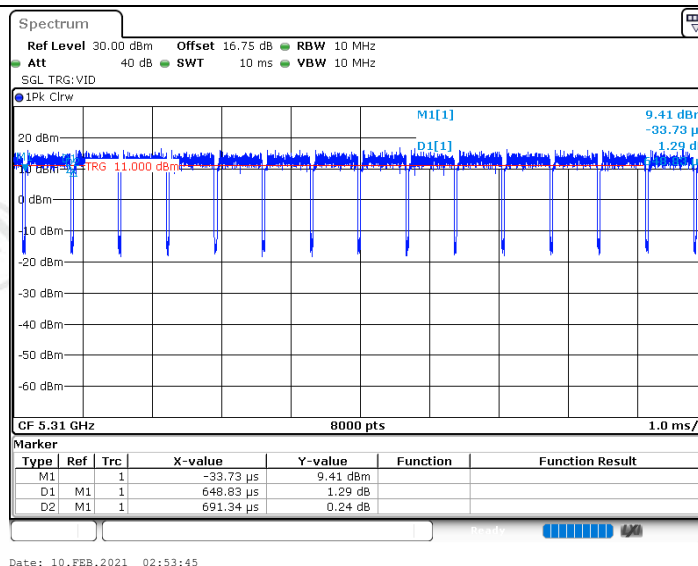
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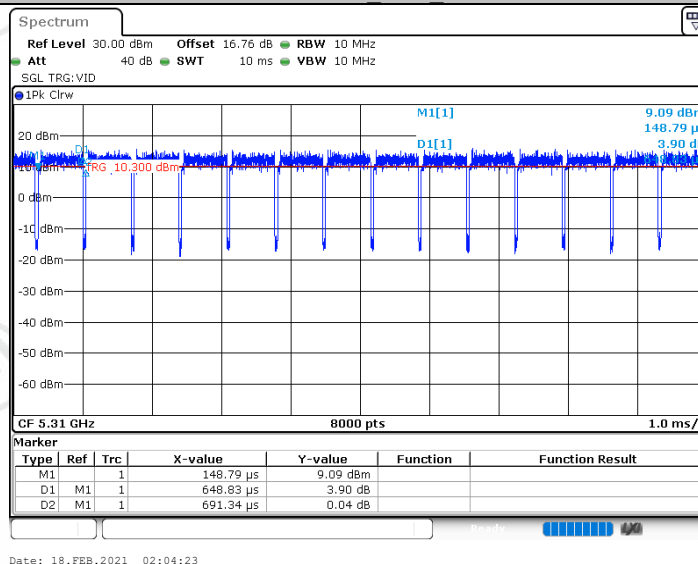
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Report No. : EED39N00008304



11AC40SISO_Ant1_5310

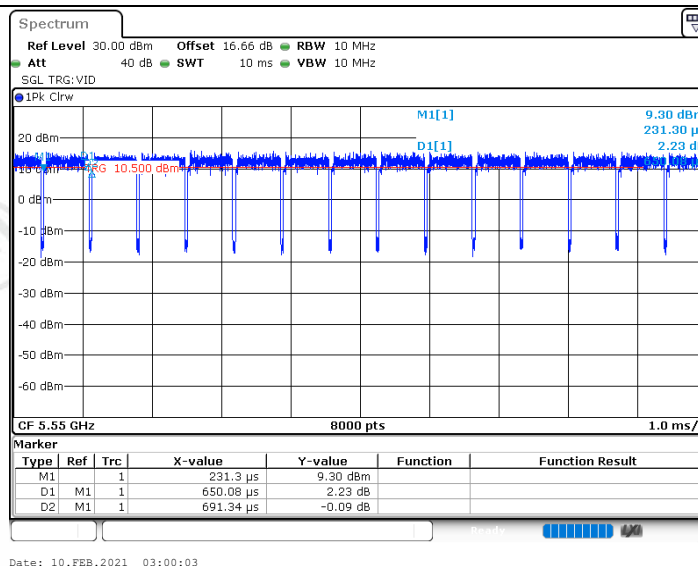


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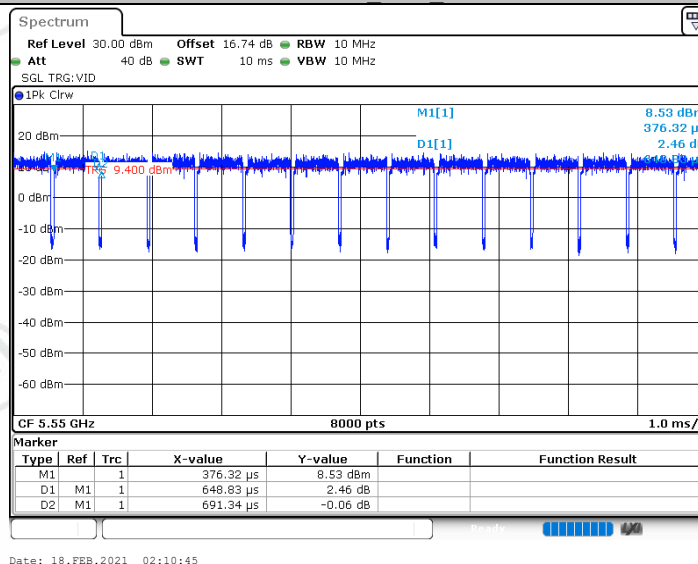
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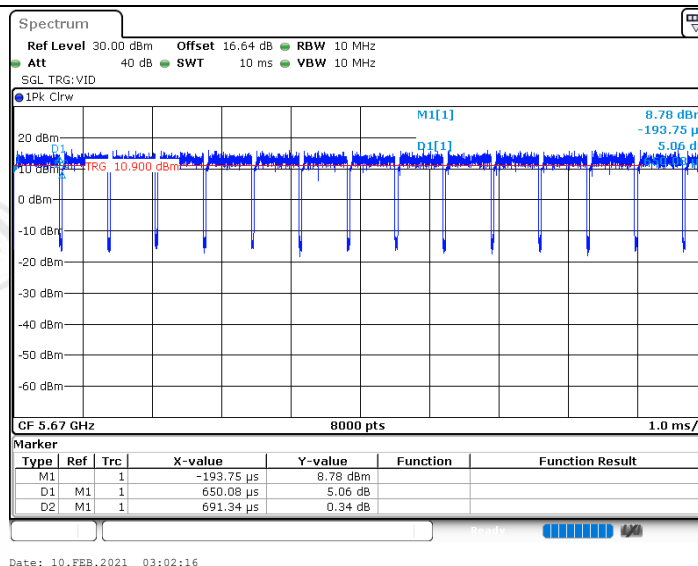


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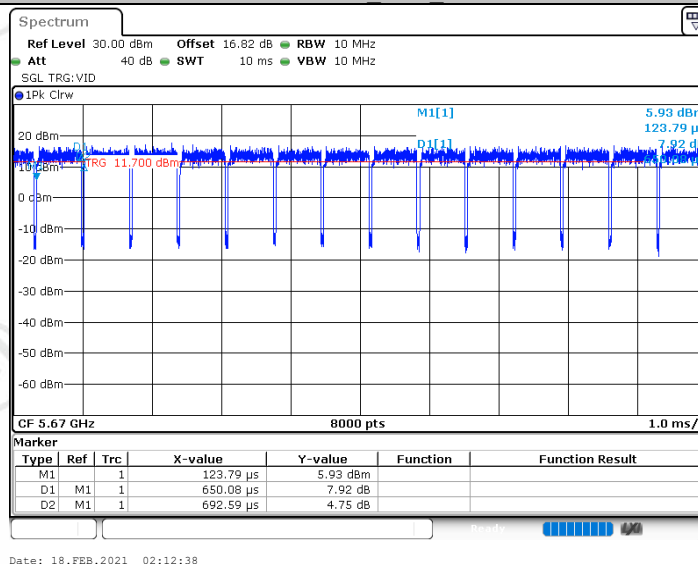


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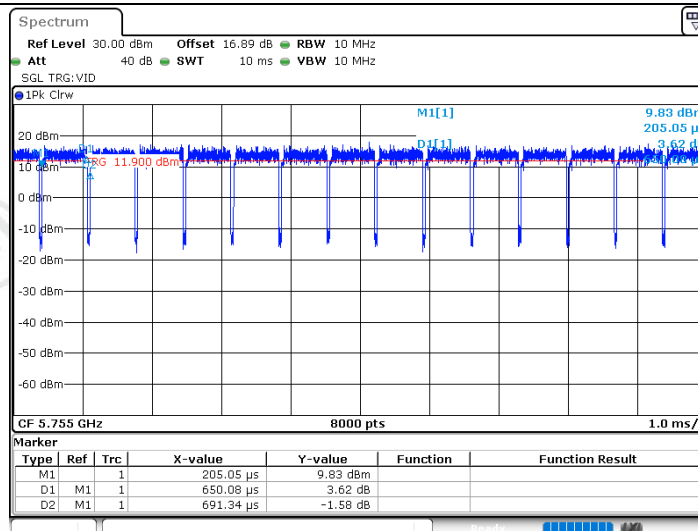


11AC40SISO Ant1 5670



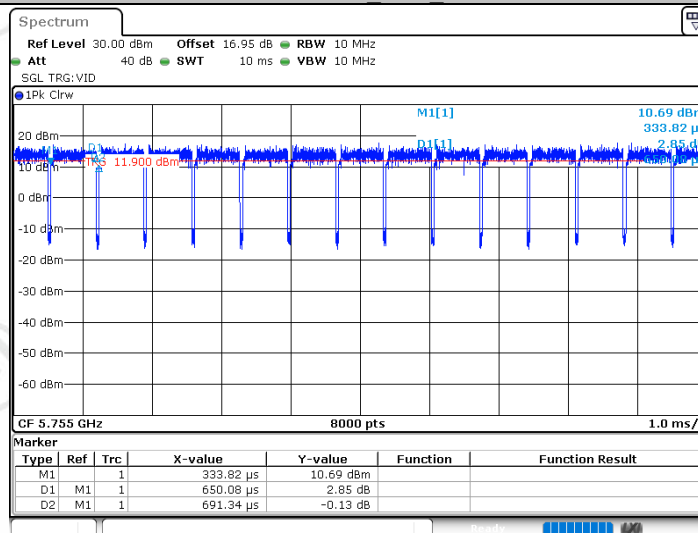
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Report No. : EED39N00008304



Date: 10.FEB.2021 03:06:10

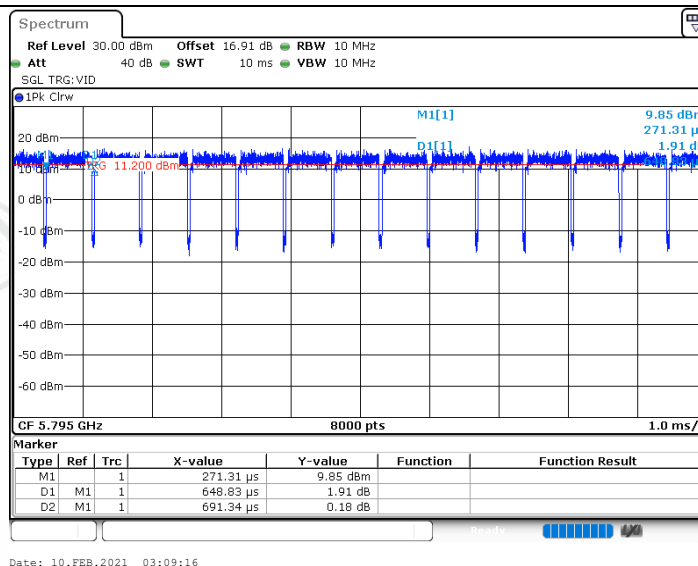
11AC40SISO Ant1 5755



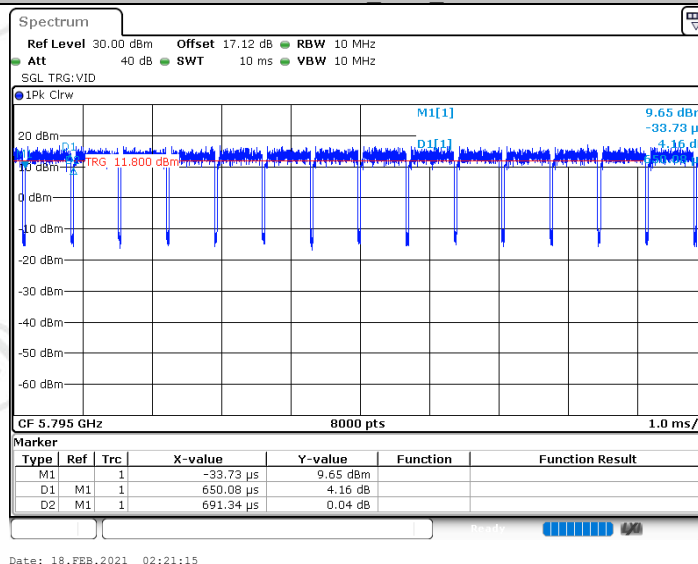
Date: 18.FEB.2021 02:17:44

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Report No. : EED39N00008304



11AC40SISO Ant1 5795

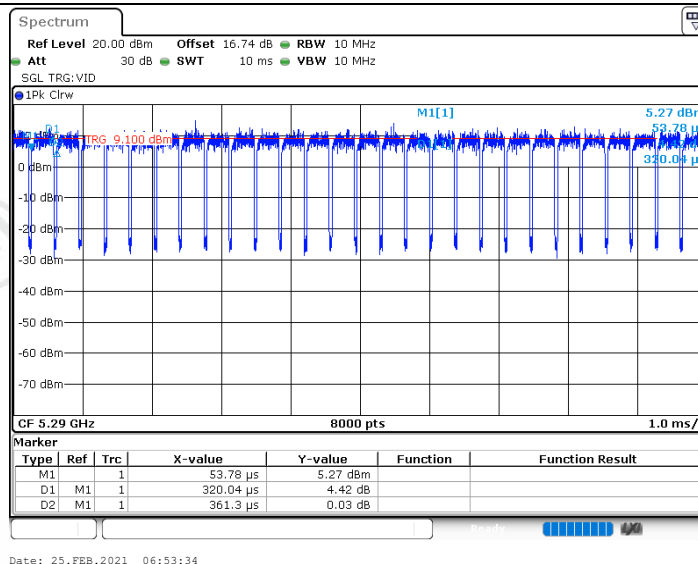


11AC40SISO Ant2 5795

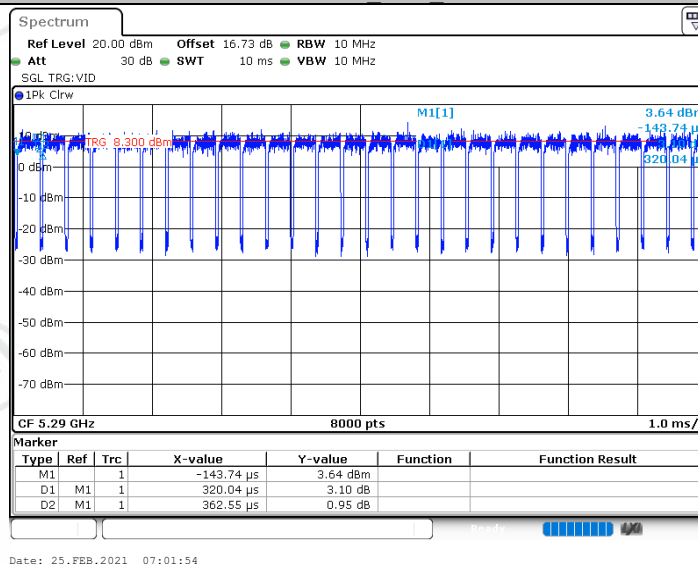
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Report No. : EED39N00008304



11AC80SISO Ant1 5290



11AC80SISO Ant2 5290

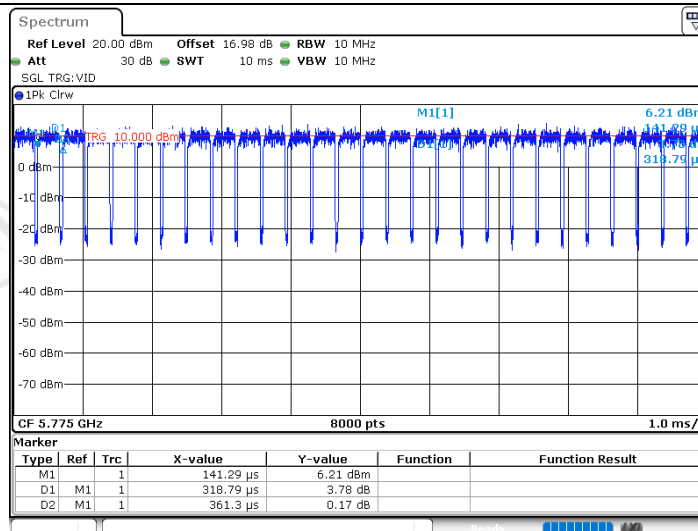
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Report No. : EED39N00008304

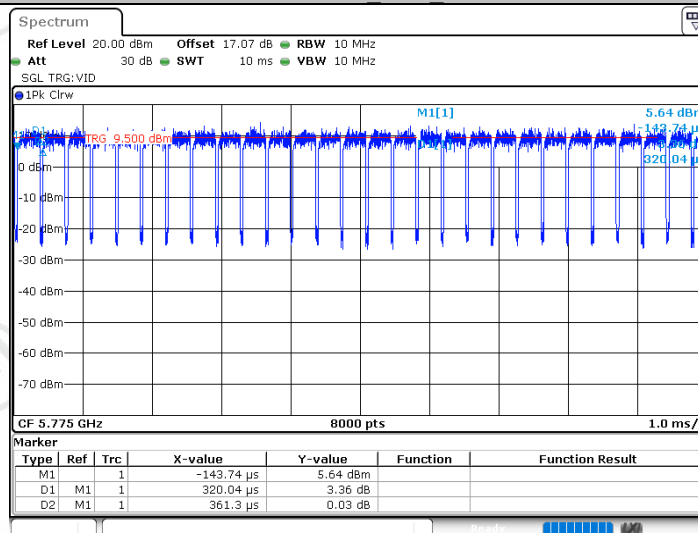


Report No. : EED39N00008304



Date: 25.FEB.2021 06:58:13

11AC80SISO_Ant1_5775



Date: 25.FEB.2021 07:05:38

11AC80SISO_Ant2_5775

Report No. : EED39N00008304



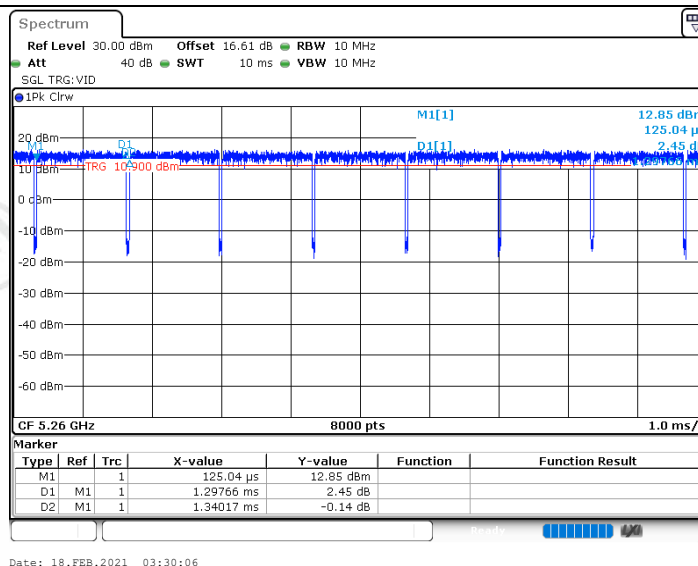
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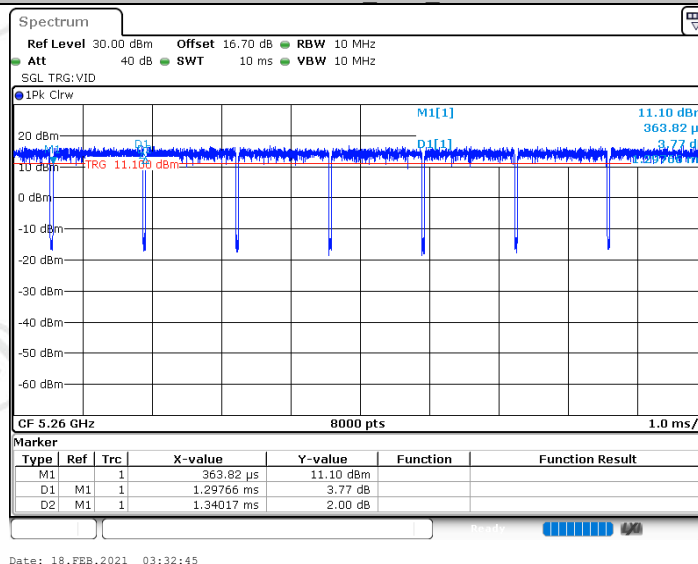
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Report No. : EED39N00008304



11N20MIMO Ant1 5260

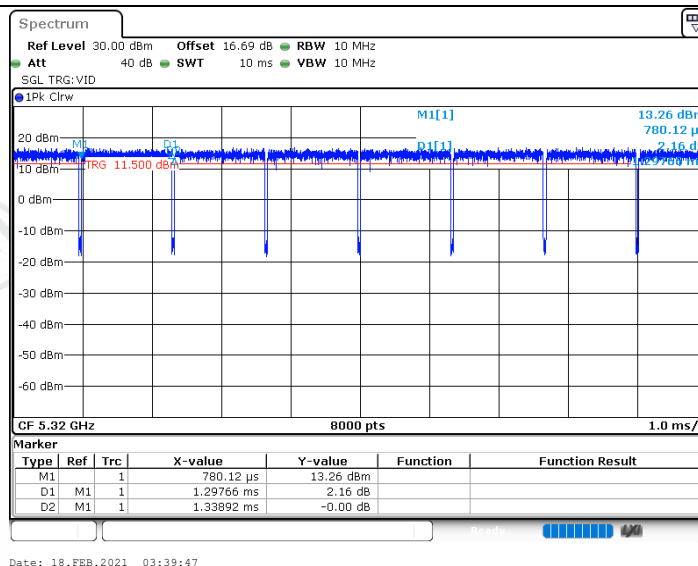


11N20MIMO Ant2 5260

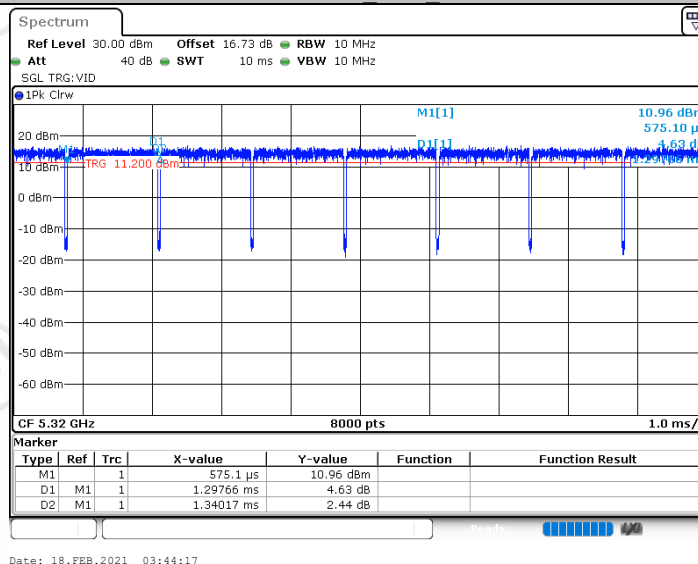
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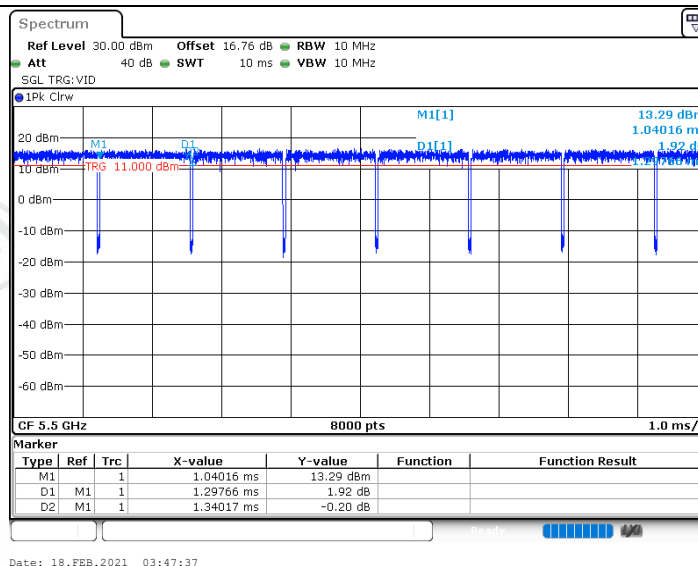


11N20MIMO Ant1 5320

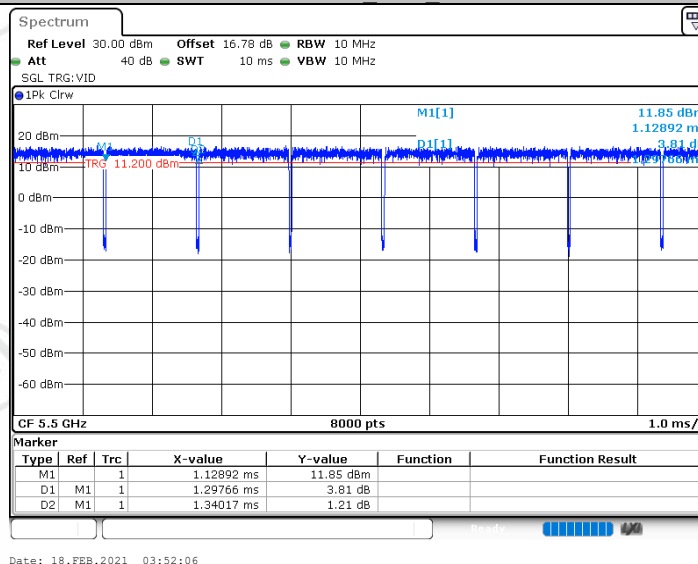


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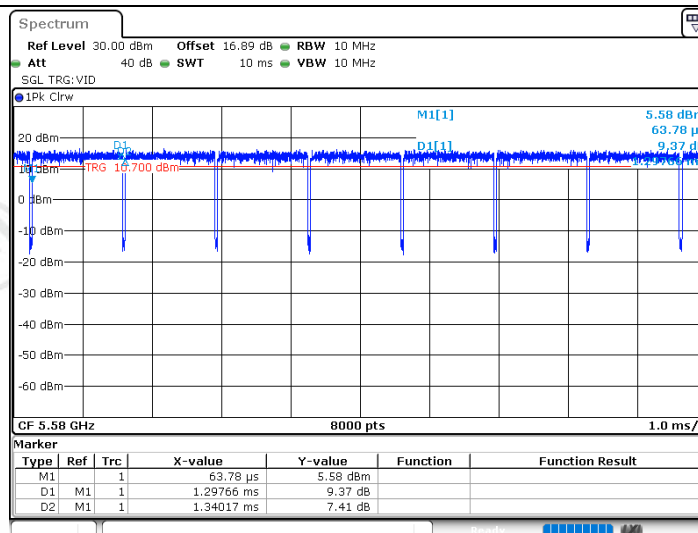


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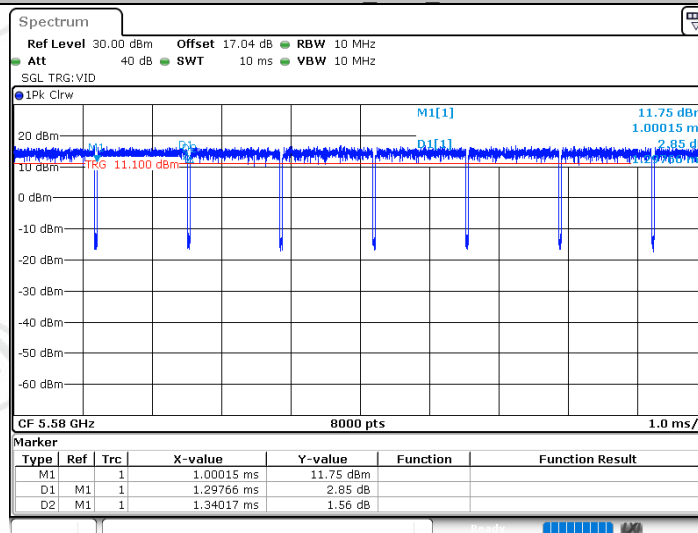
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Report No. : EED39N00008304



Date: 18.FEB.2021 03:55:02

11N20MIMO Ant1 5580



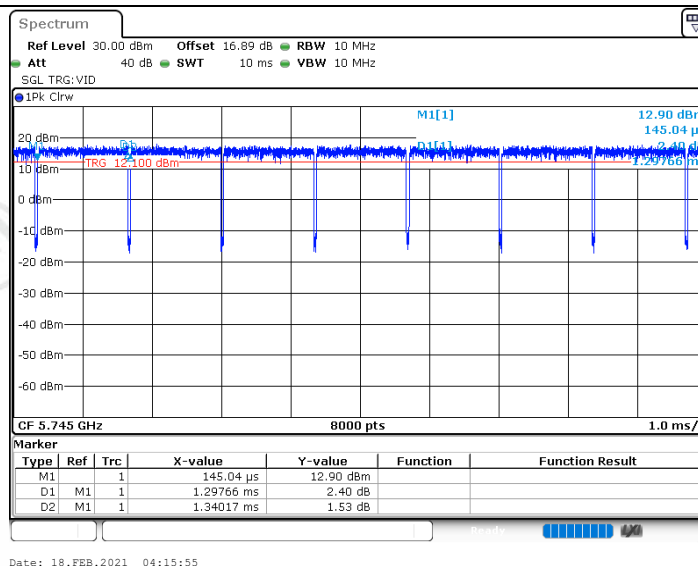
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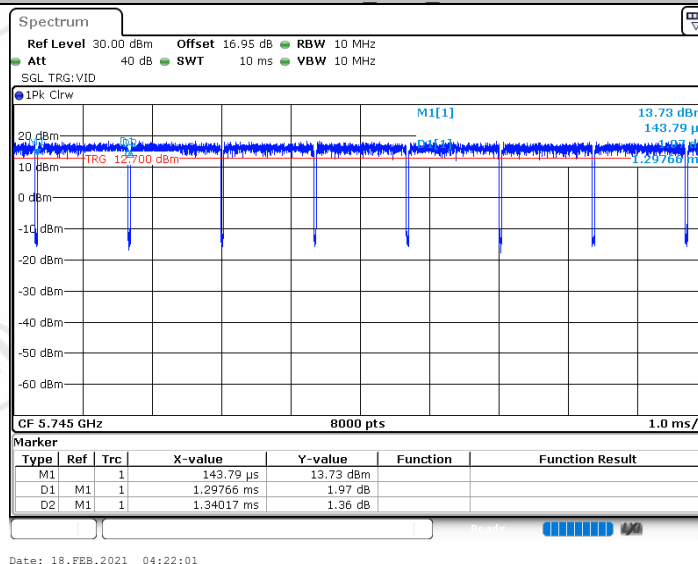
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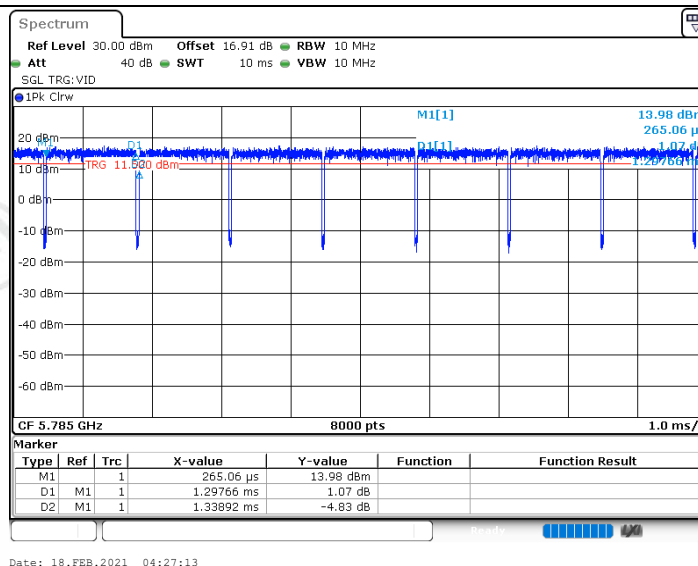


11N20MIMO Ant1 5745

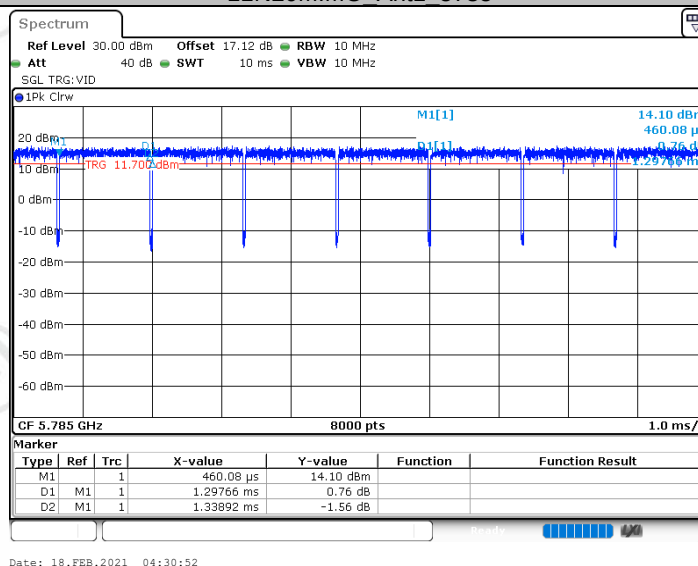


11N20MIMO Ant2 5745

Report No. : EED39N00008304



11N20MIMO Ant1 5785

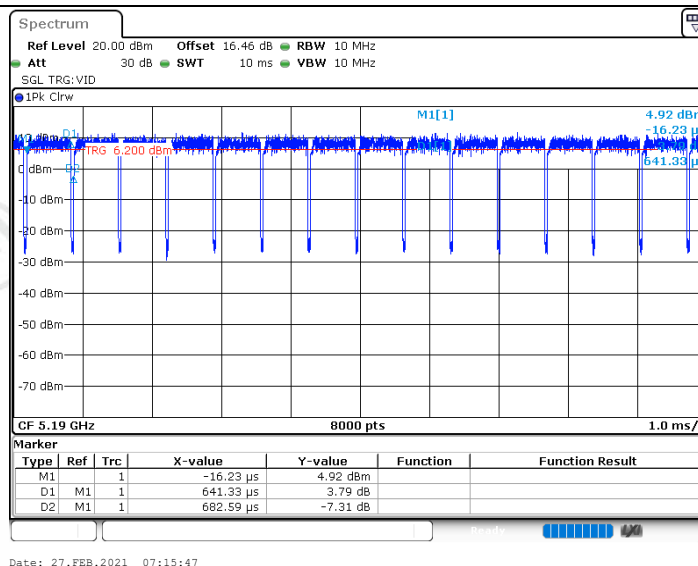


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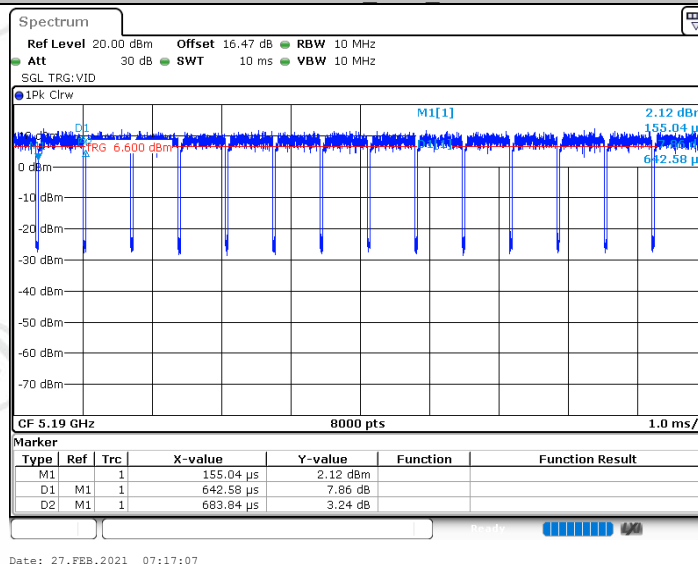
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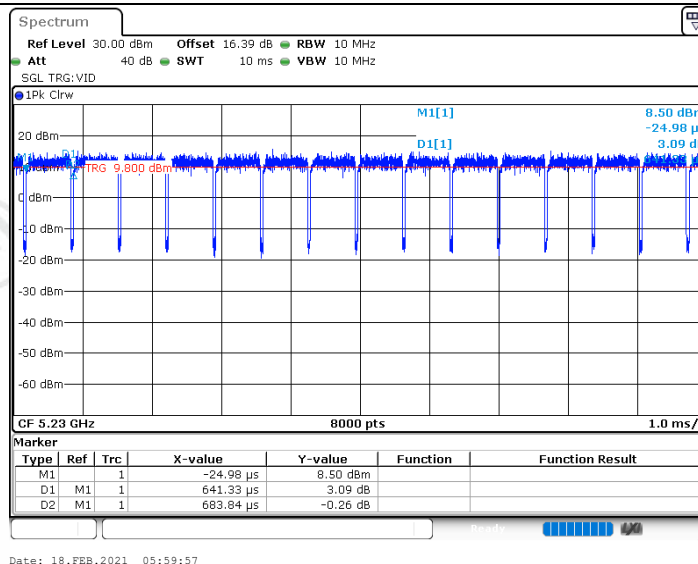


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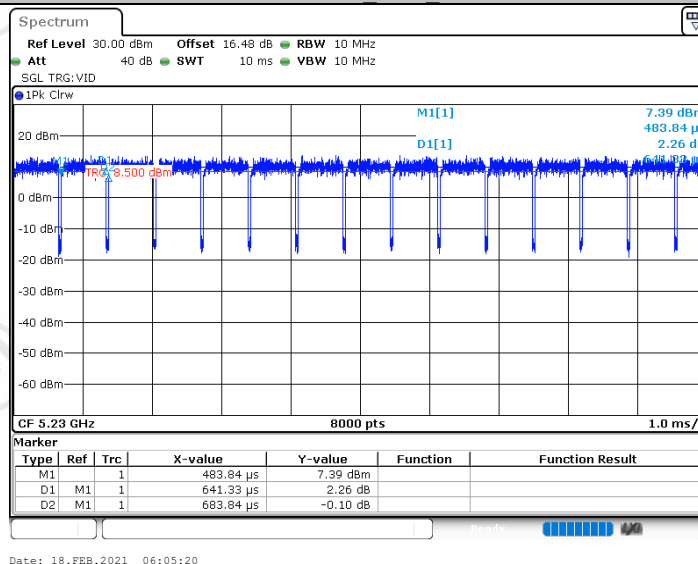


11N40MIMO Ant2 5190

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11N40MIMO Ant1 5230

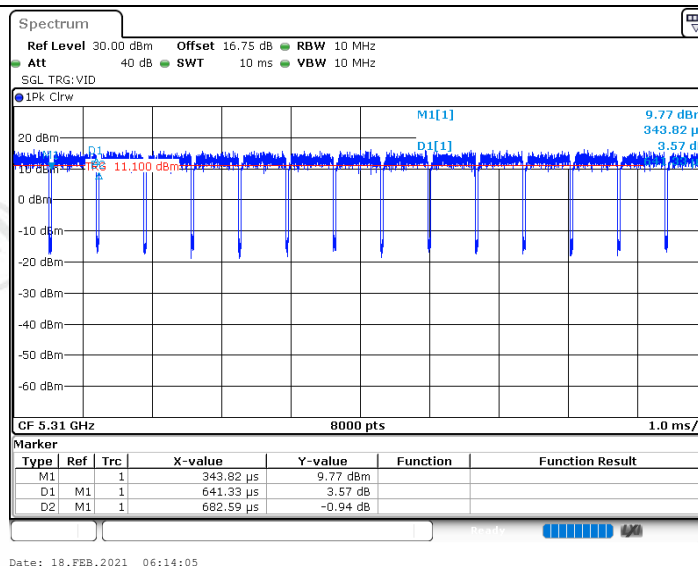


11N40MIMO Ant2 5230

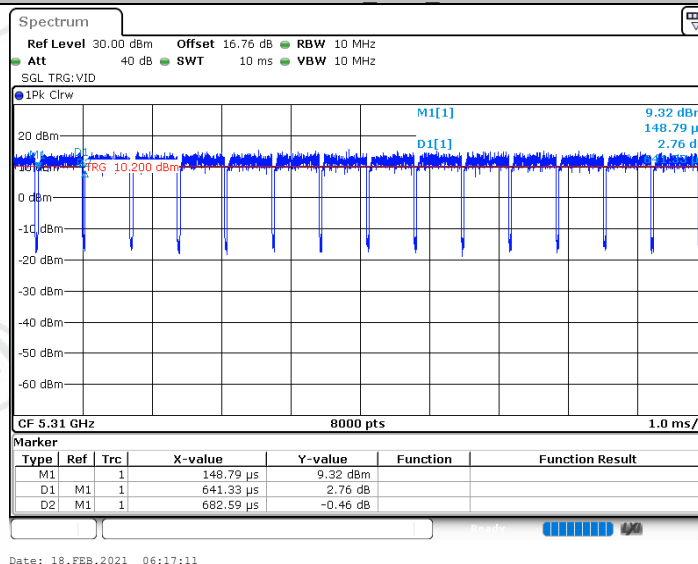
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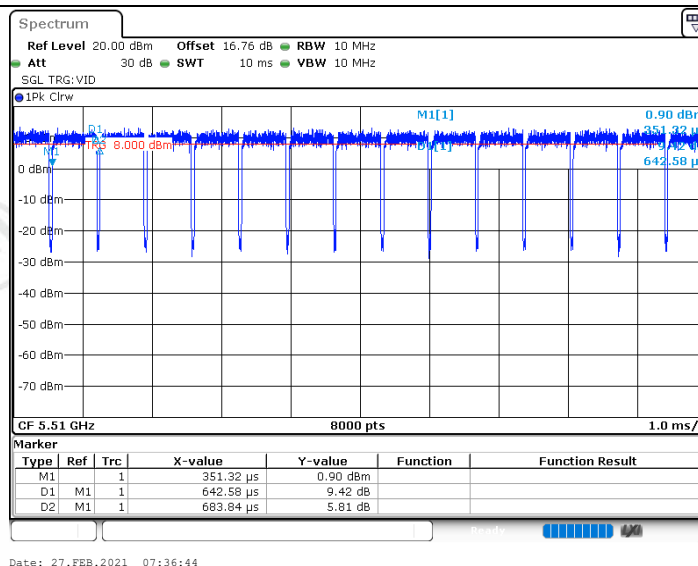


11N40MIMO Ant1 5310

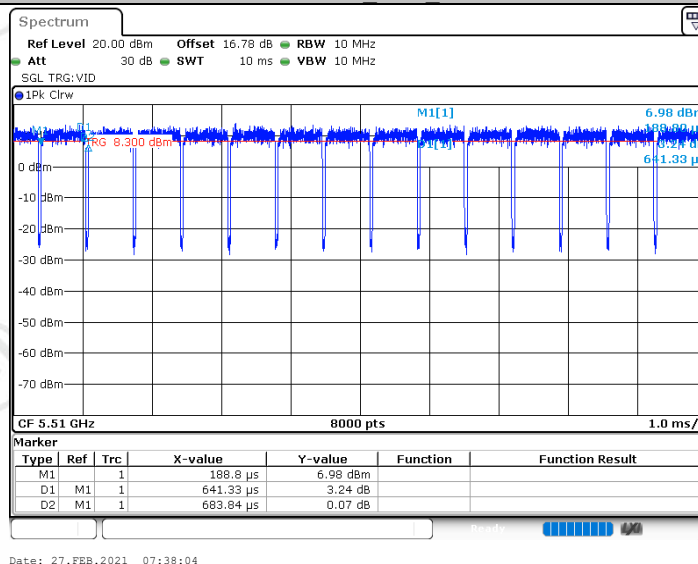


11N40MIMO Ant2 5310

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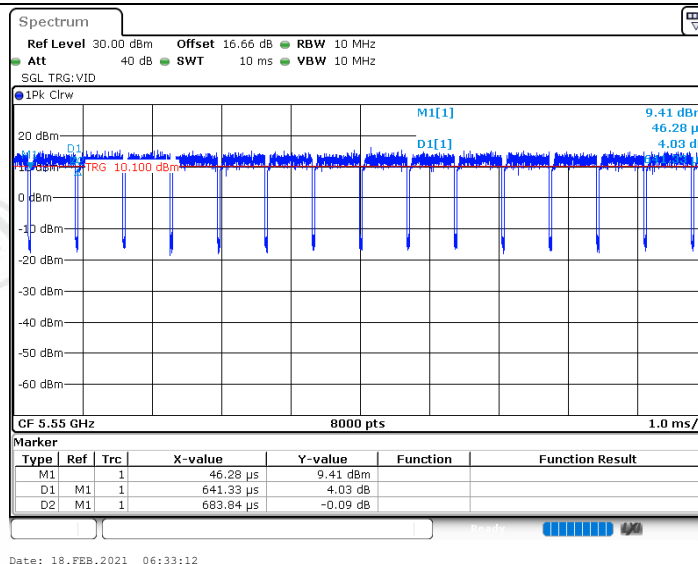


11N40MIMO Ant1 5510

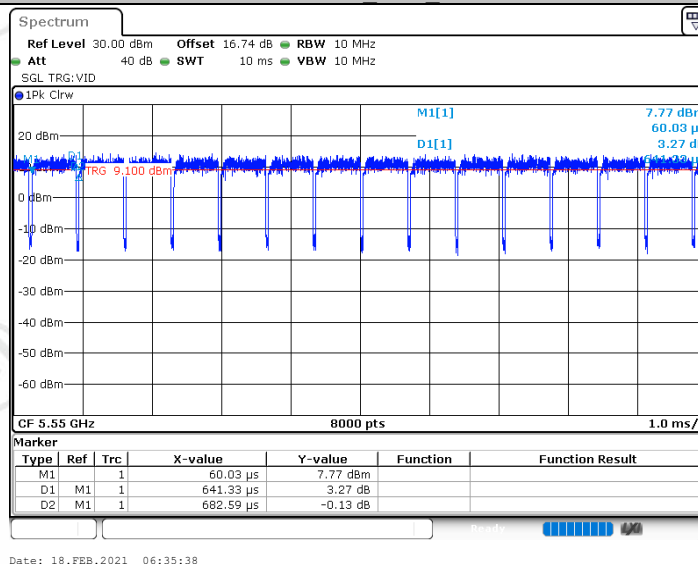


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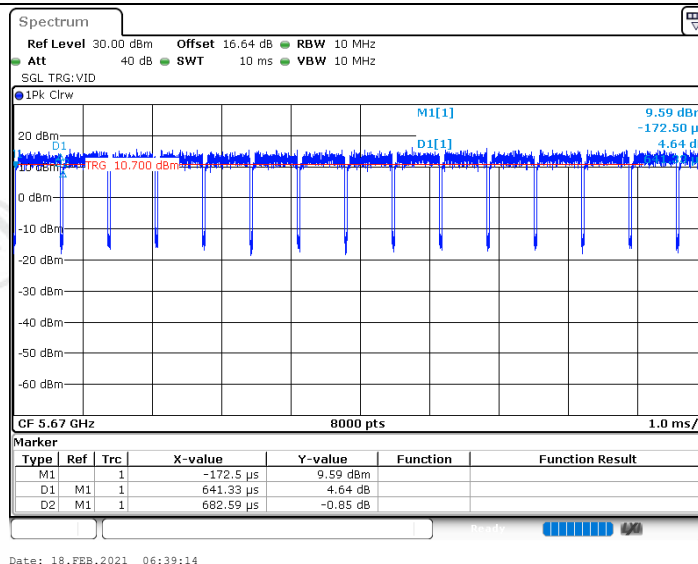


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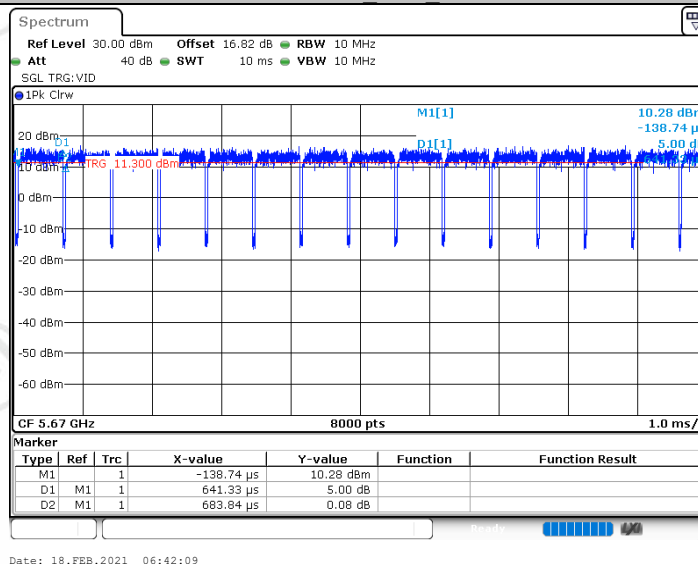


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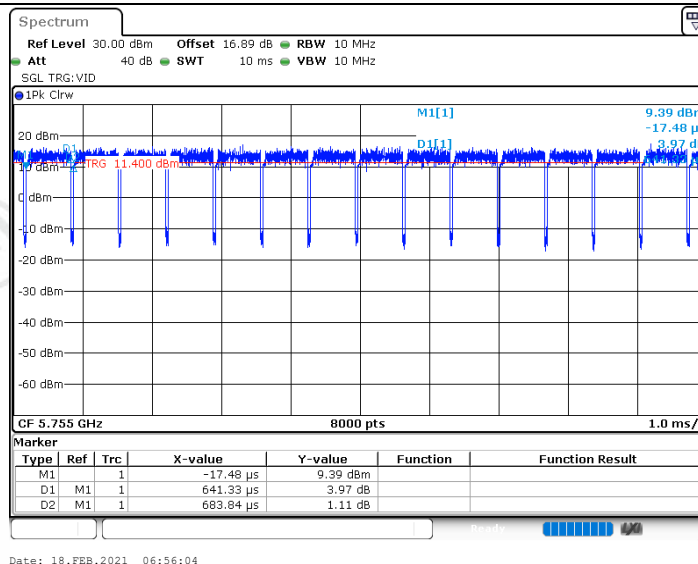


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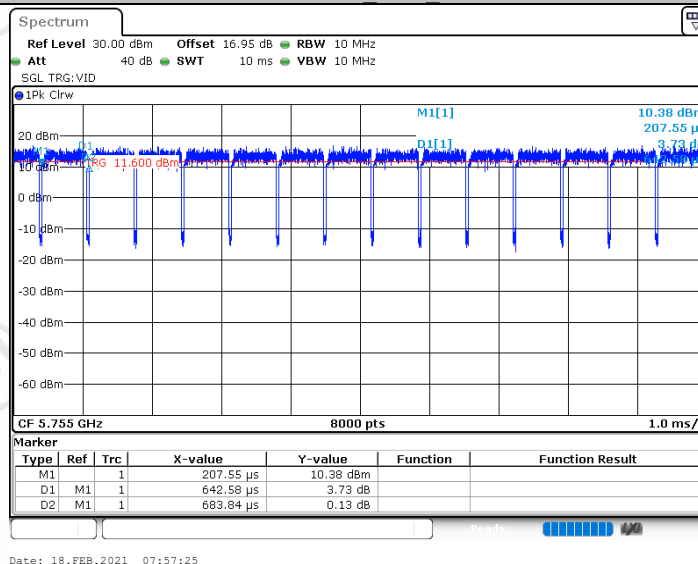


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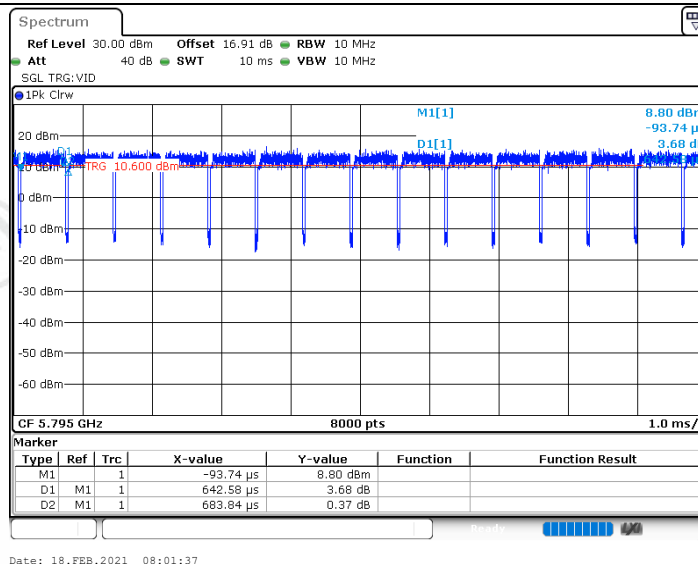


11N40MIMO Ant1 5755

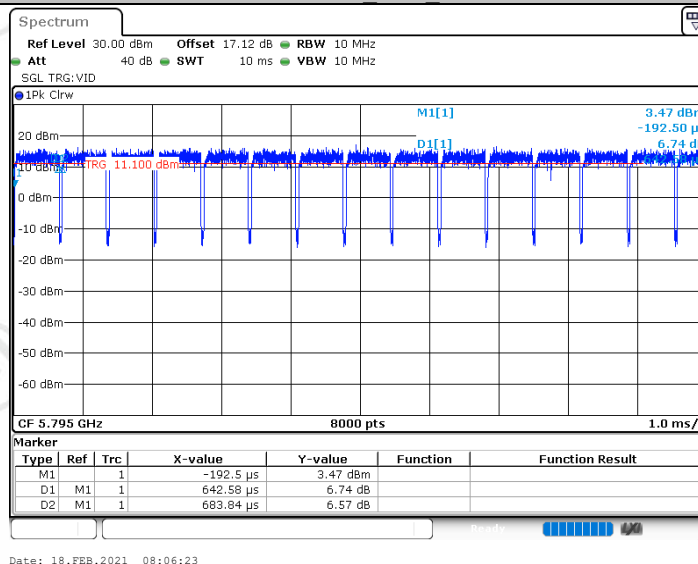


11N40MIMO Ant2 5755

Report No. : EED39N00008304



11N40MIMO Ant1 5795

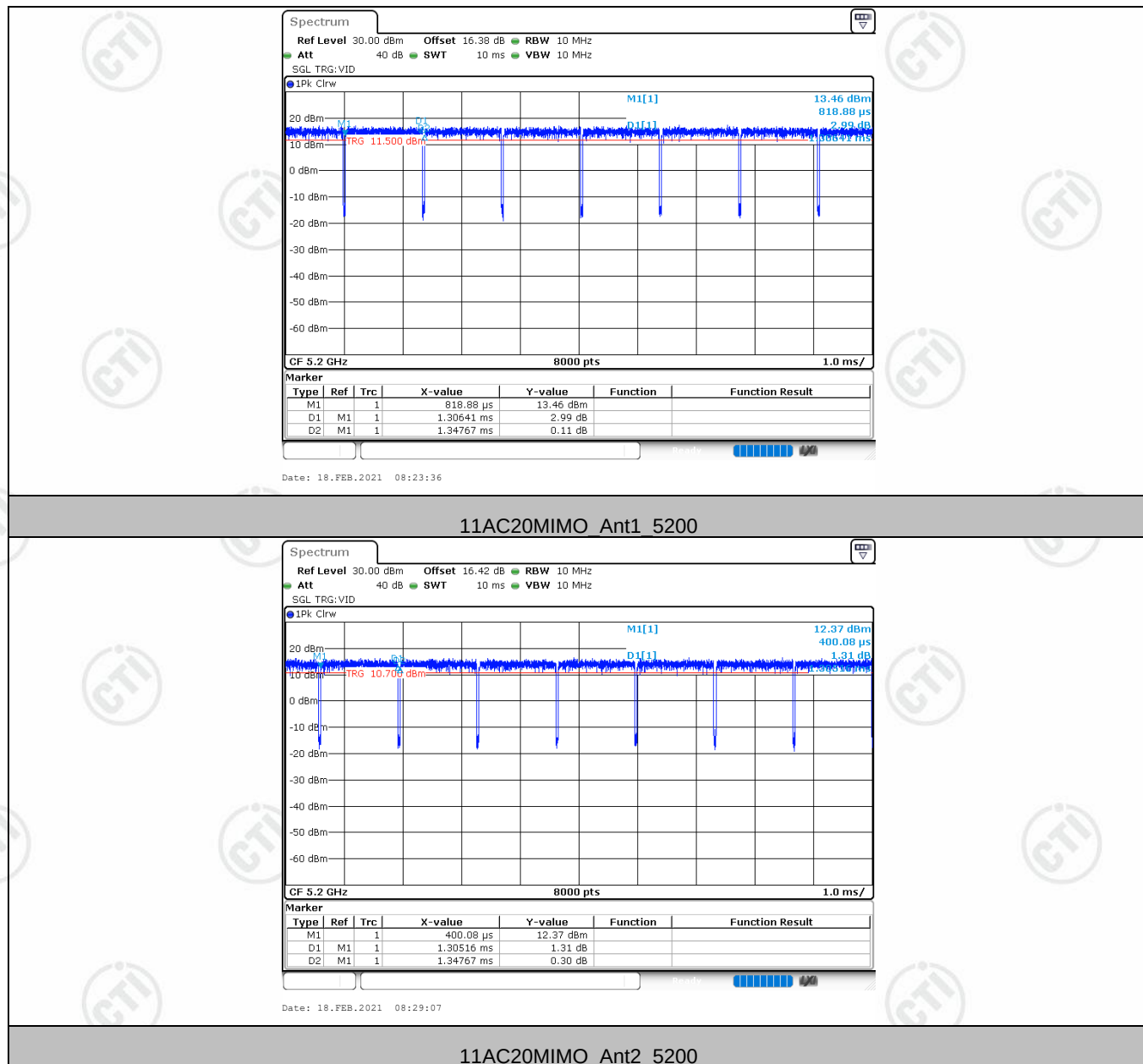


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Report No. : EED39N00008304



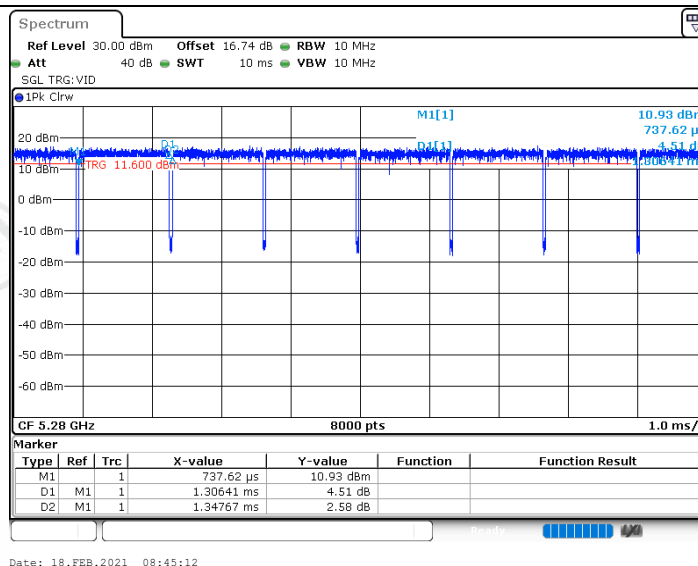
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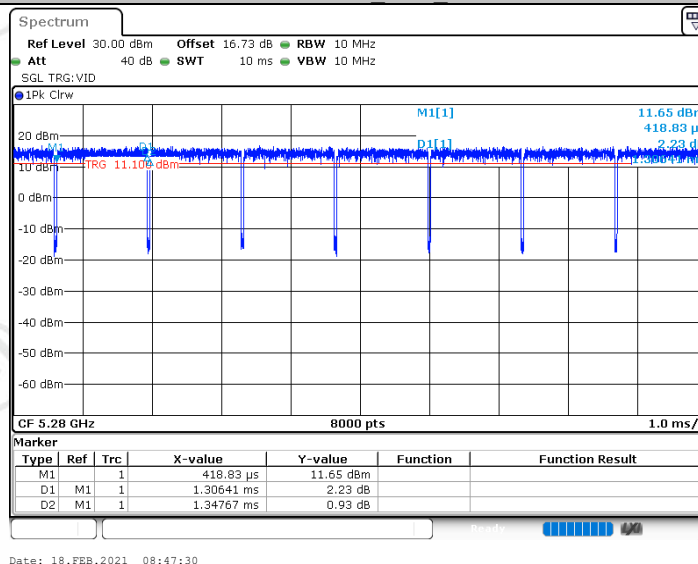
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11AC20MIMO_Ant1_5280



11AC20MIMO_Ant2_5280

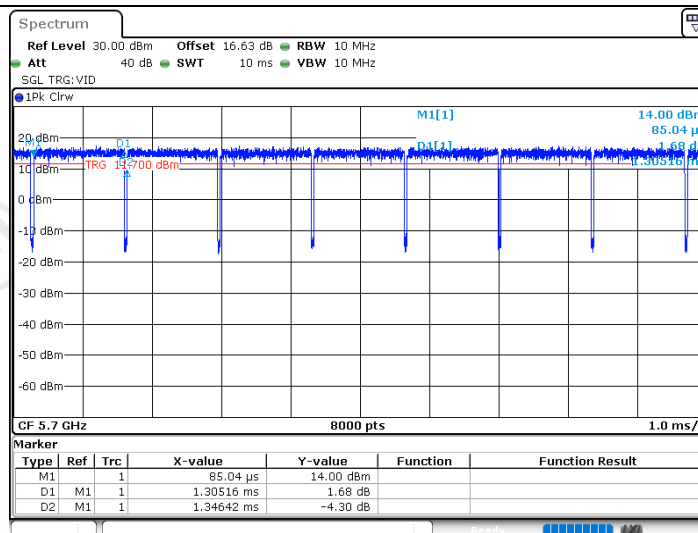


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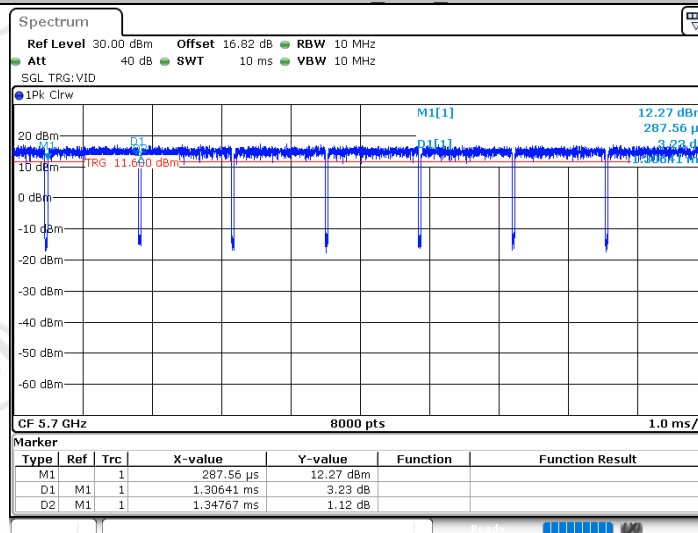


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Date: 18.FEB.2021 09:17:40

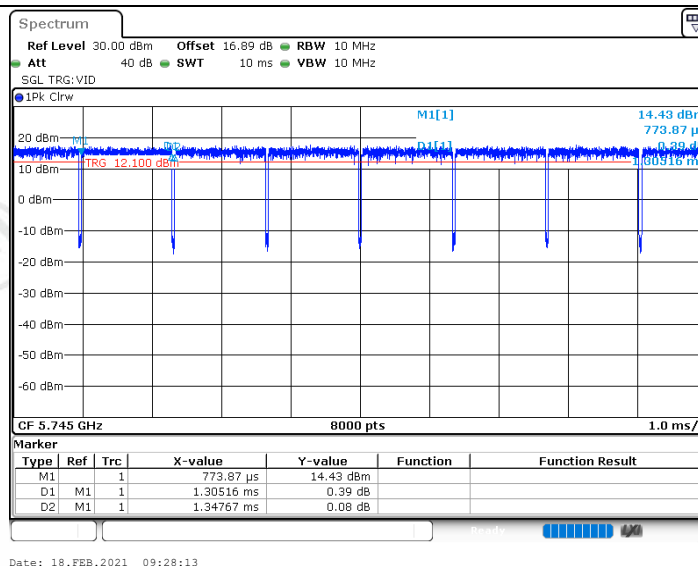
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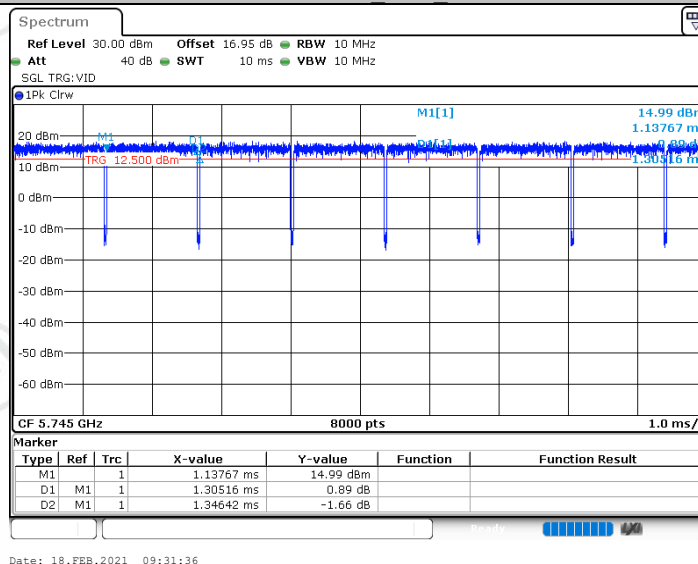
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11AC20MIMO_Ant2_5700

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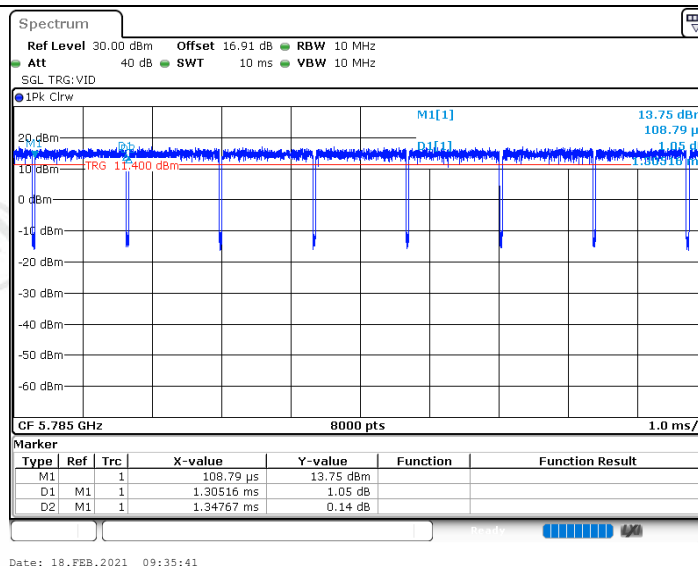


11AC20MIMO_Ant1_5745

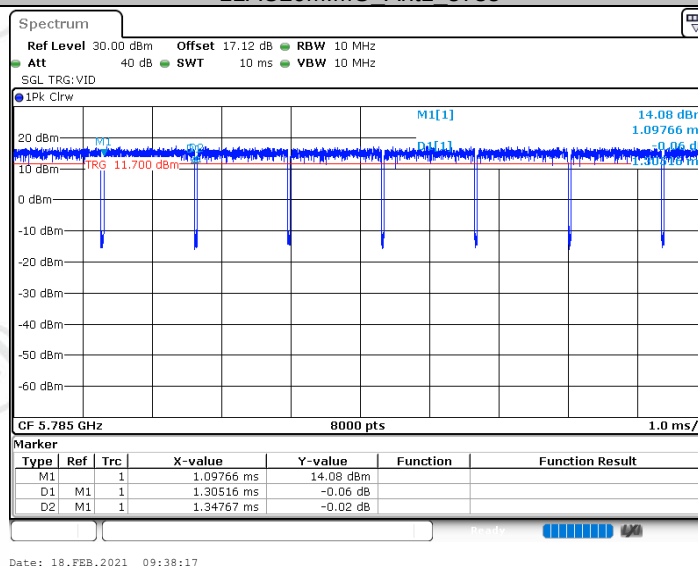


11AC20MIMO_Ant2_5745

Report No. : EED39N00008304



11AC20MIMO_Ant1_5785



11AC20MIMO_Ant2_5785

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Report No. : EED39N00008304



Report No. : EED39N00008304

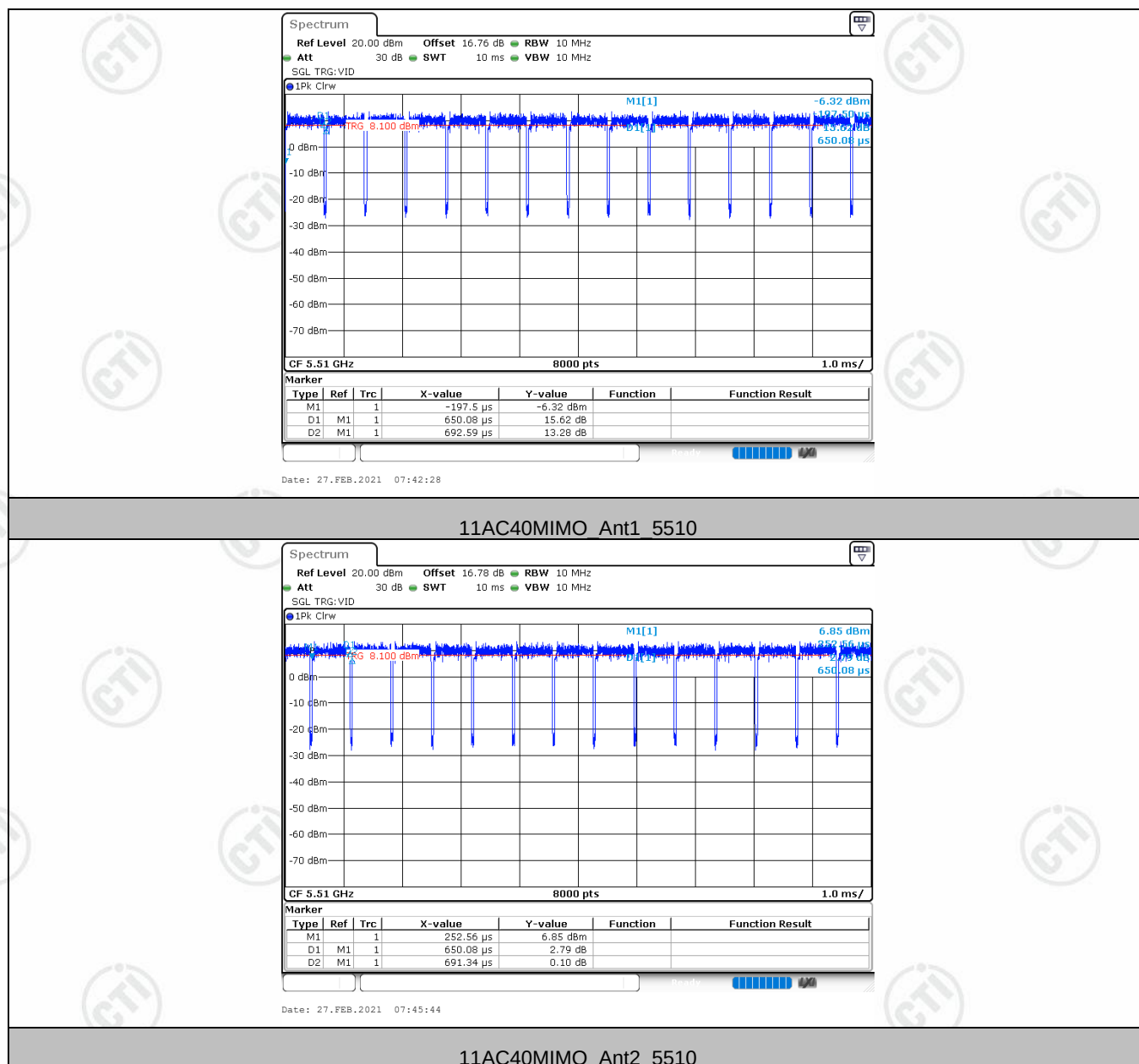


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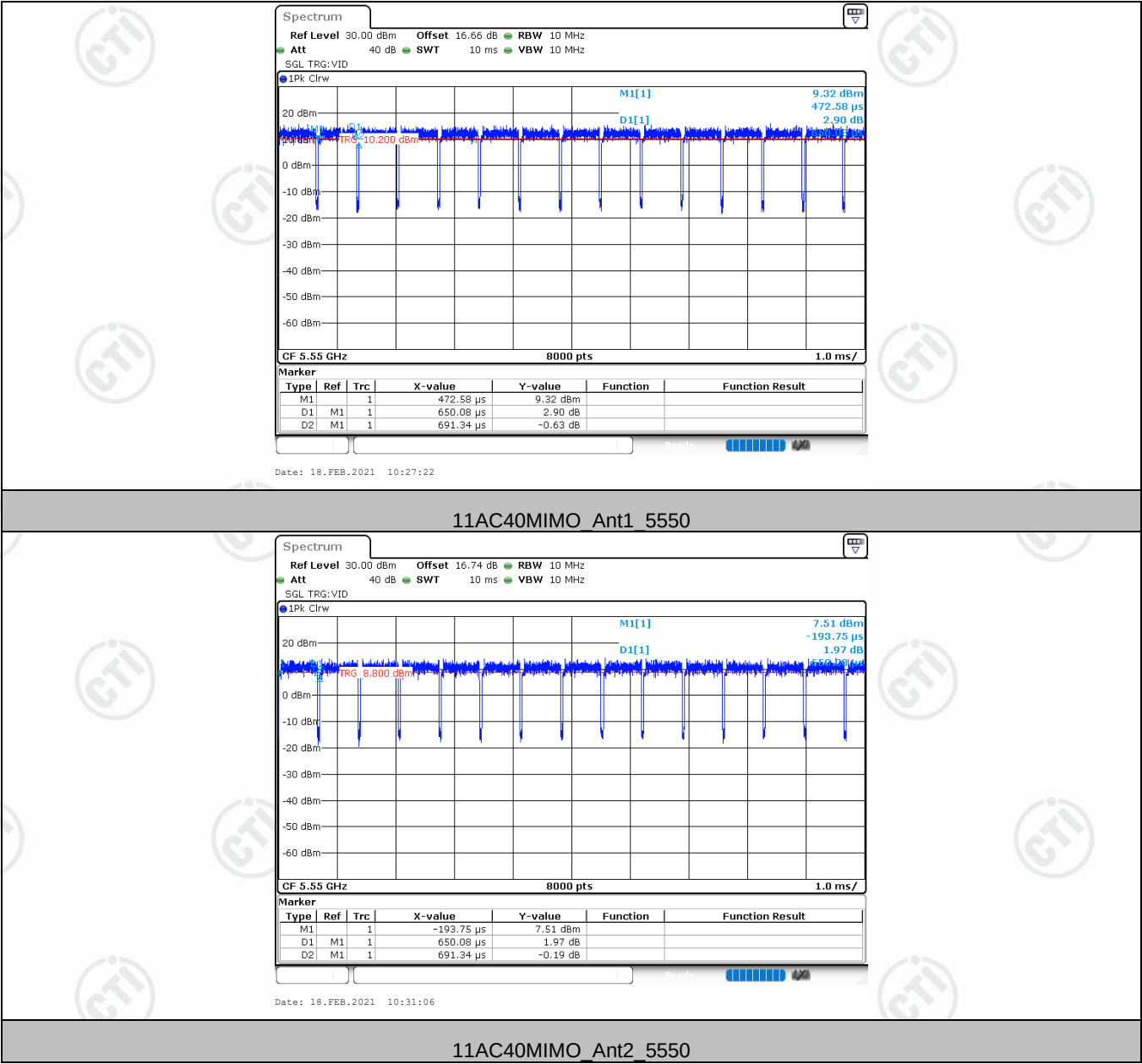




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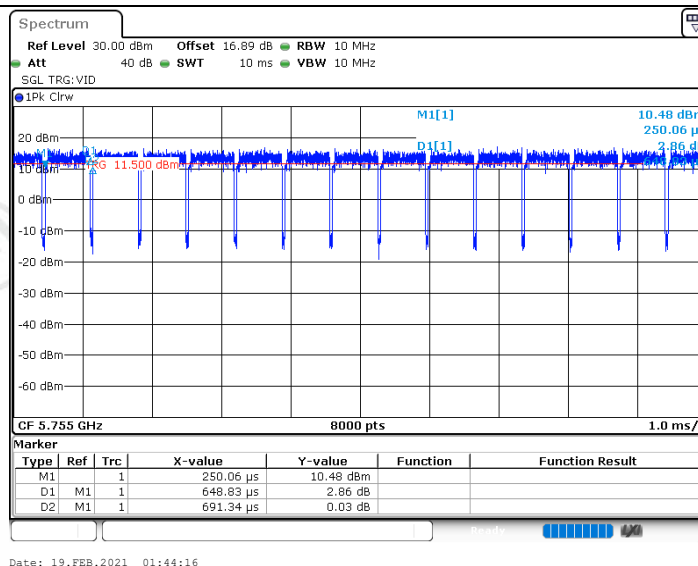


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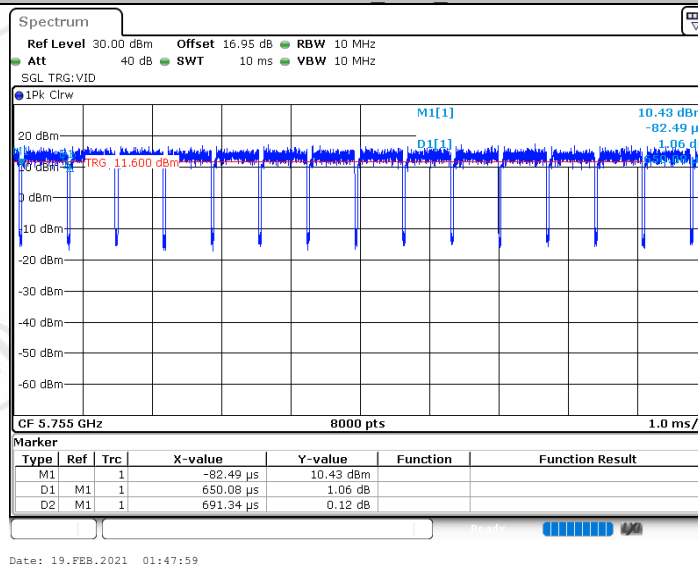




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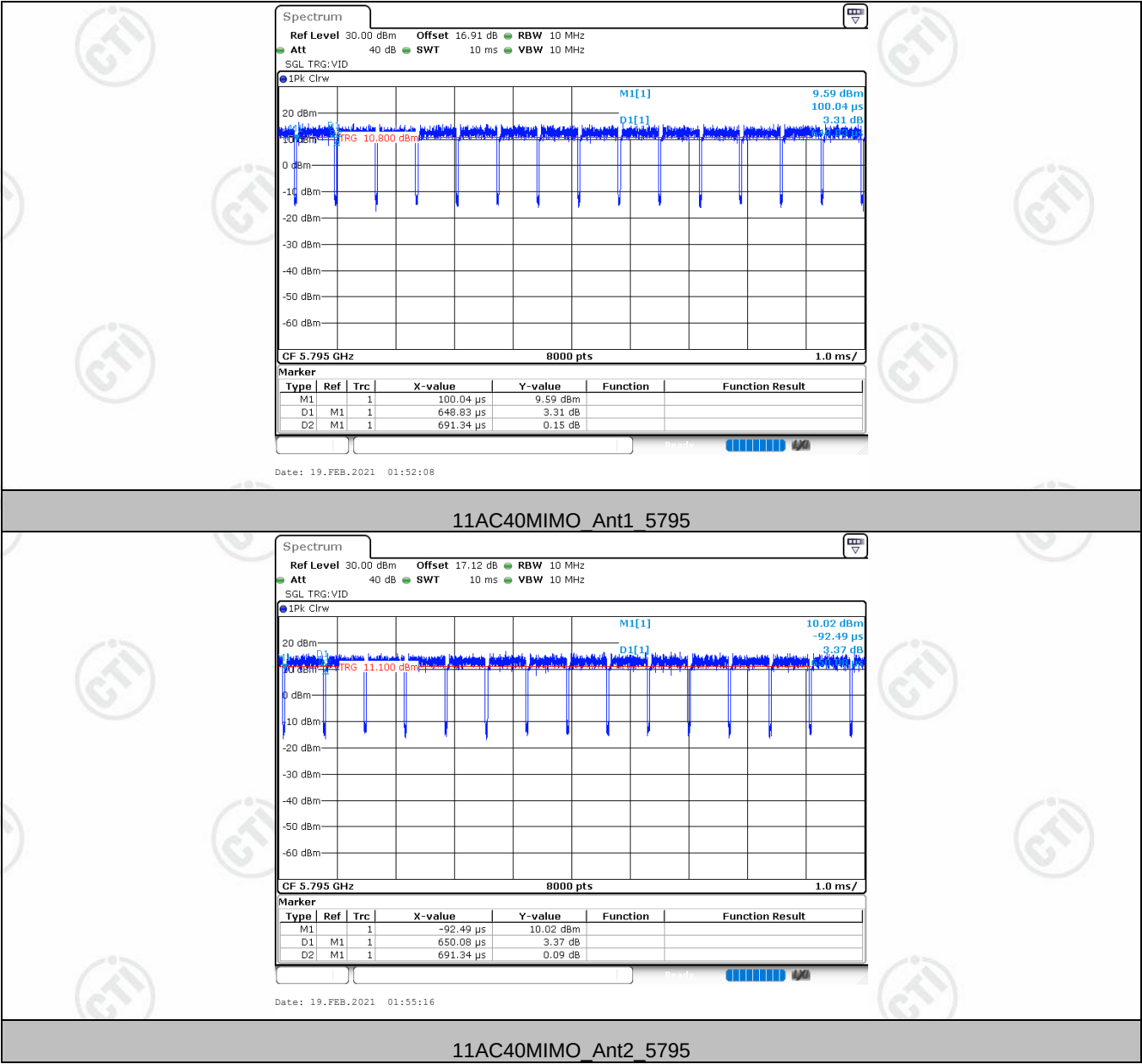


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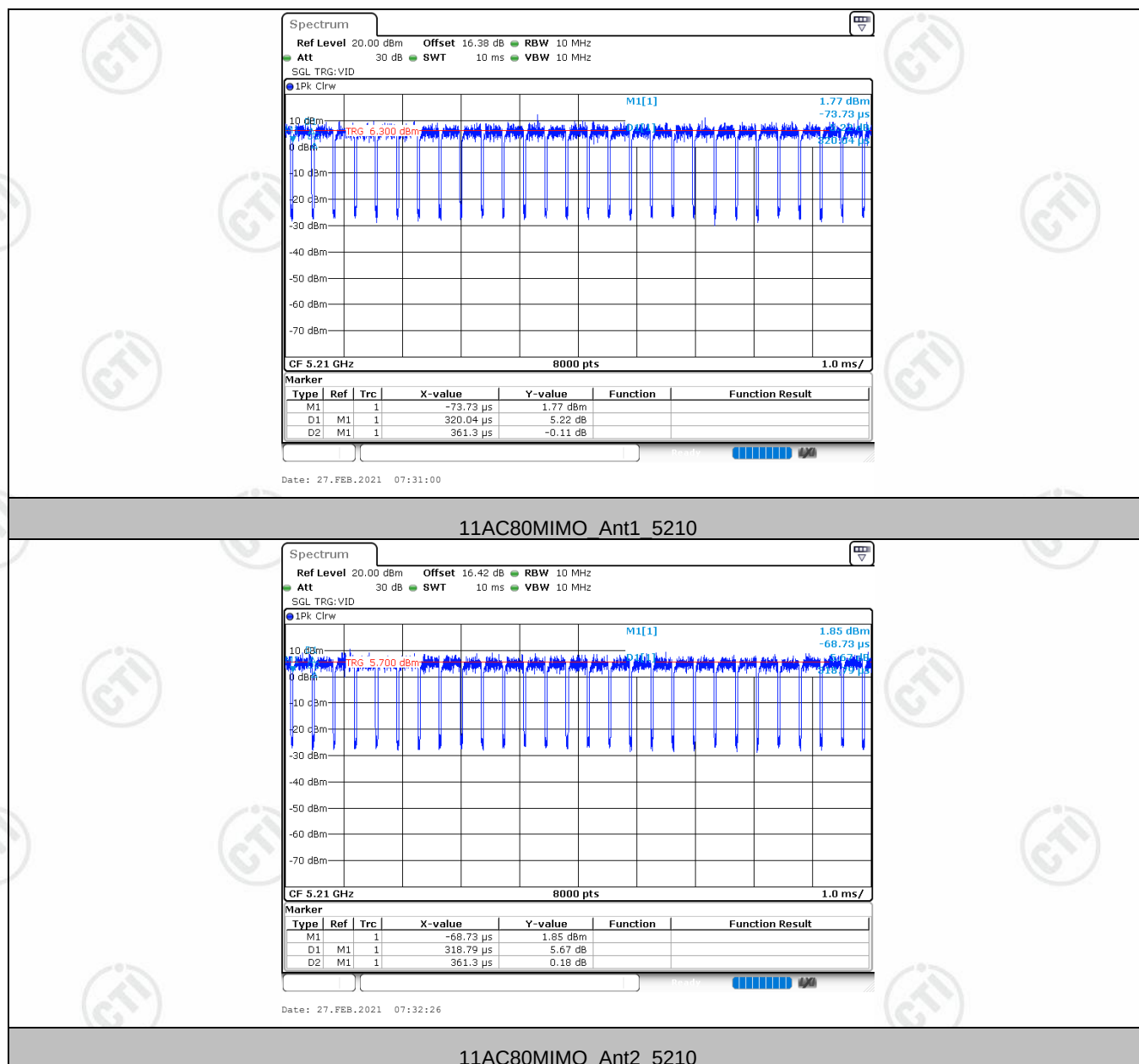


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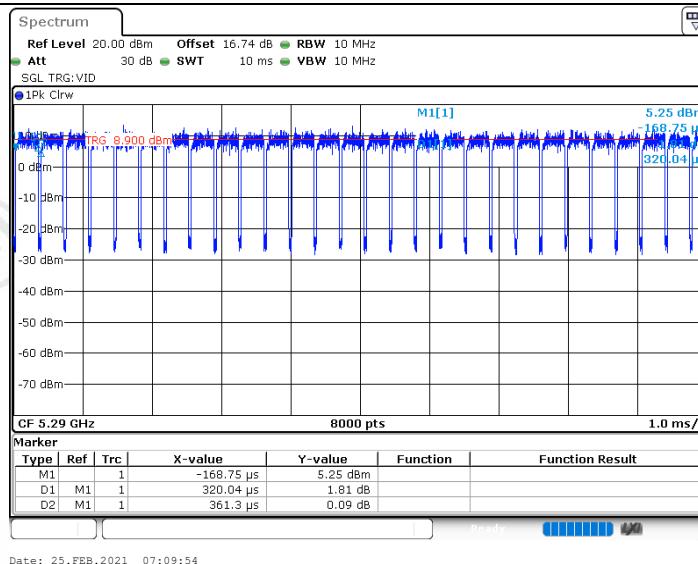
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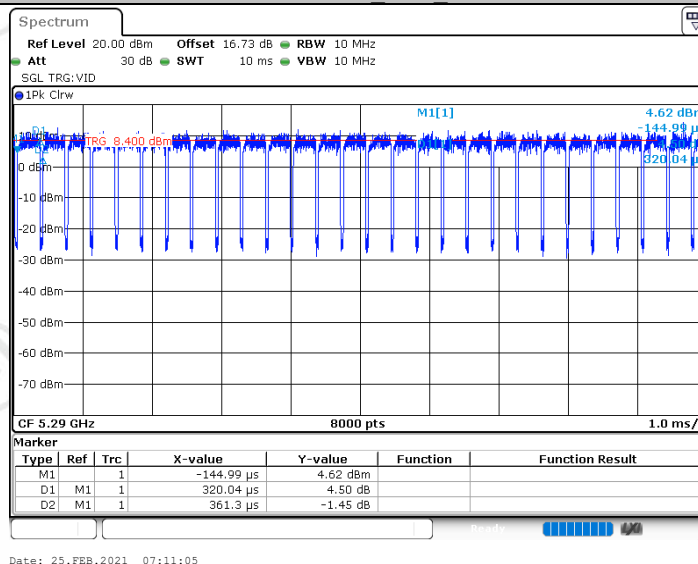
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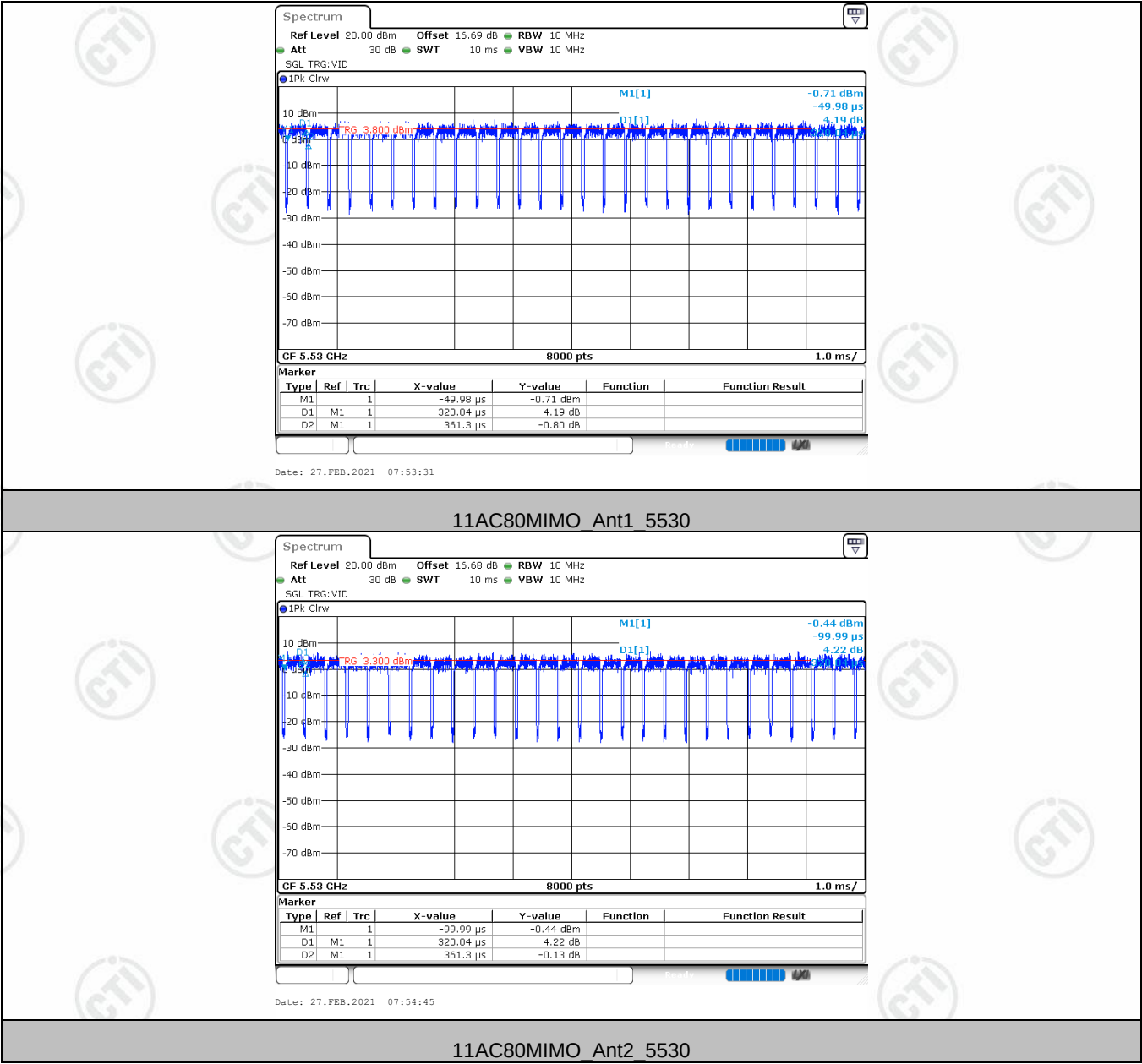
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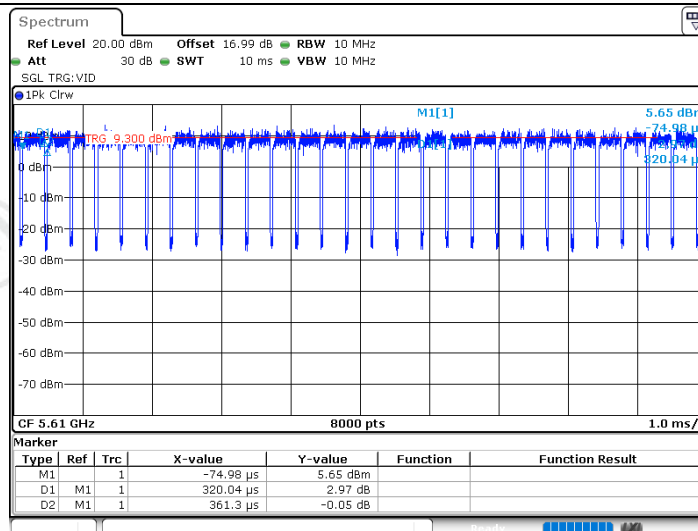
11AC80MIMO_Ant1_5290



11AC80MIMO_Ant2_5290

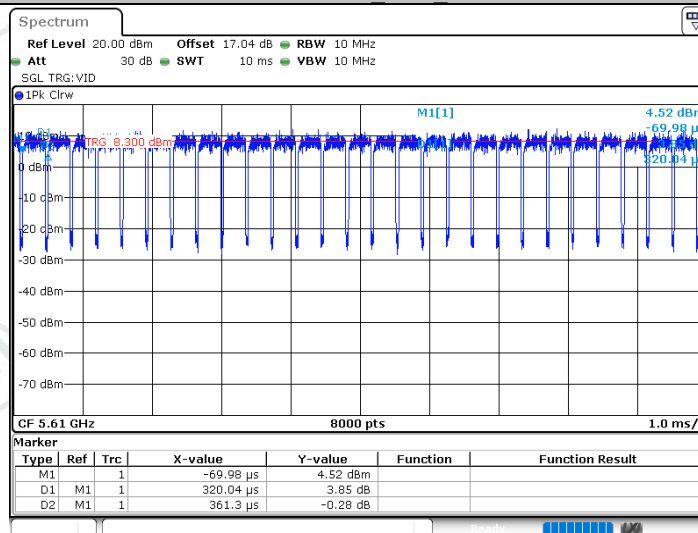


Report No. : EED39N00008304



Date: 25.FEB.2021 07:14:31

11AC80MIMO_Ant1_5610



Date: 25.FEB.2021 07:15:13

11AC80MIMO_Ant2_5610



Appendix H): Antenna Requirement

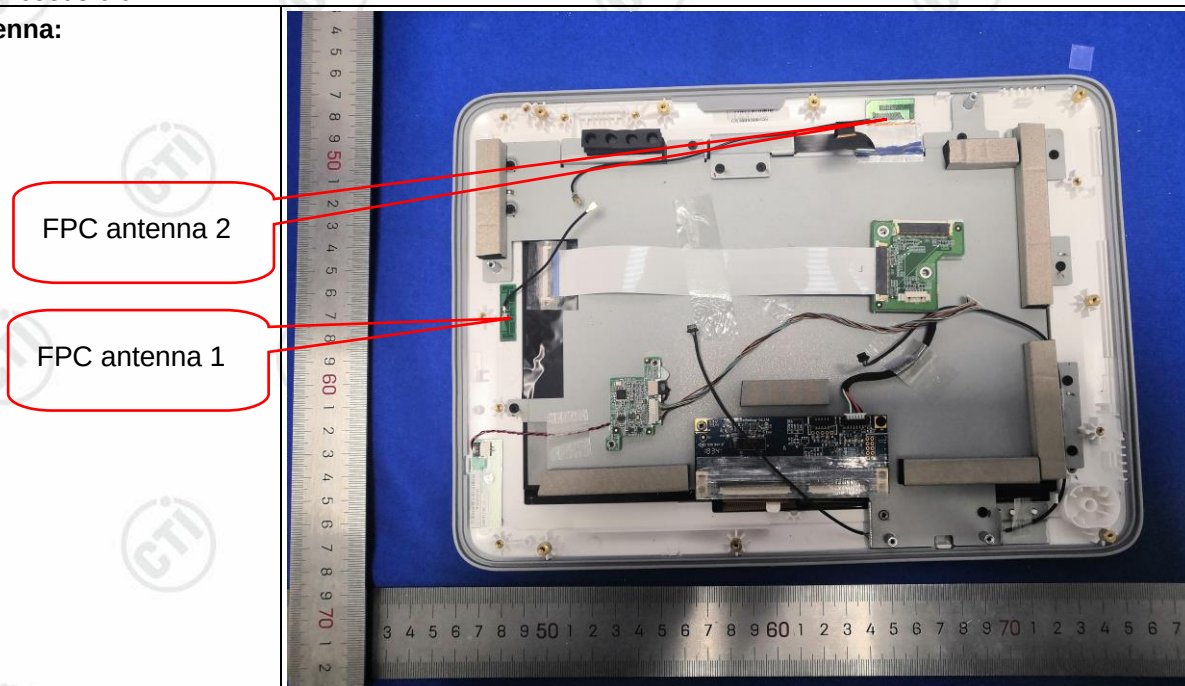
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement.
All transmit signals are completely uncorrelated with each other.