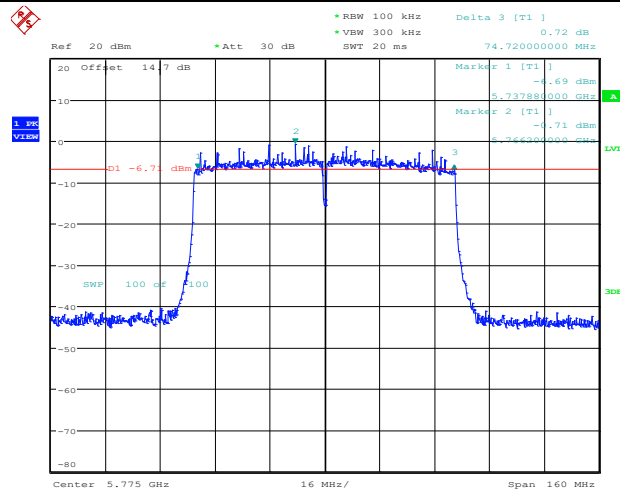


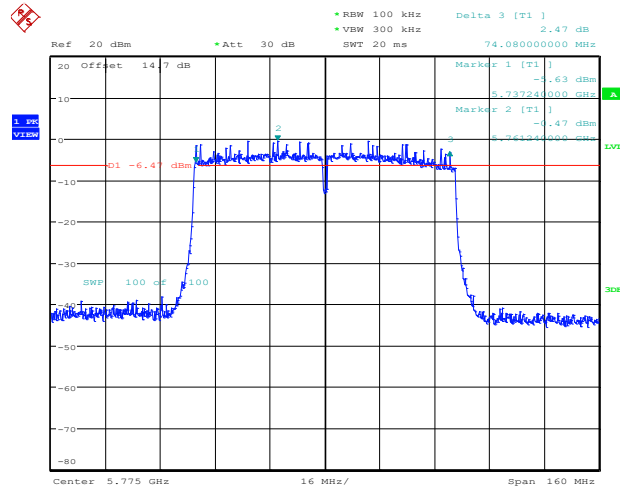
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC80SISO_Ant1_5775



Date: 19.OCT.2023 16:15:16

11AC80SISO_Ant2_5775



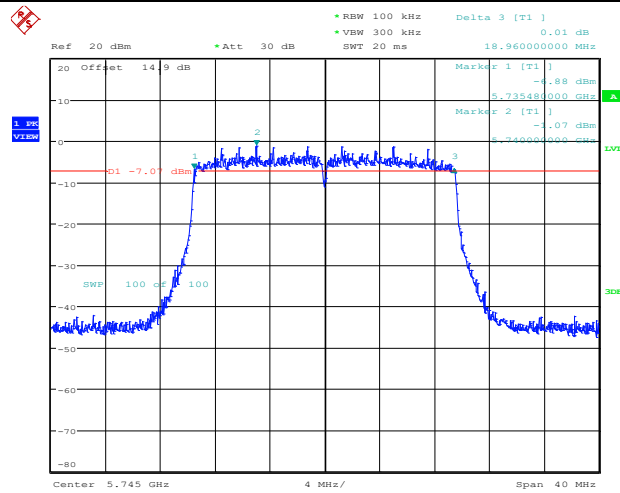
Date: 19.OCT.2023 16:21:50

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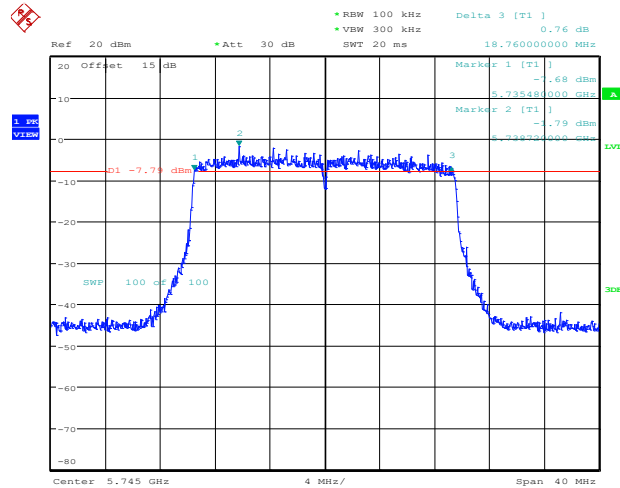
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX20SISO_Ant1_5745



Date: 31.JUL.2023 13:37:20

11AX20SISO_Ant2_5745



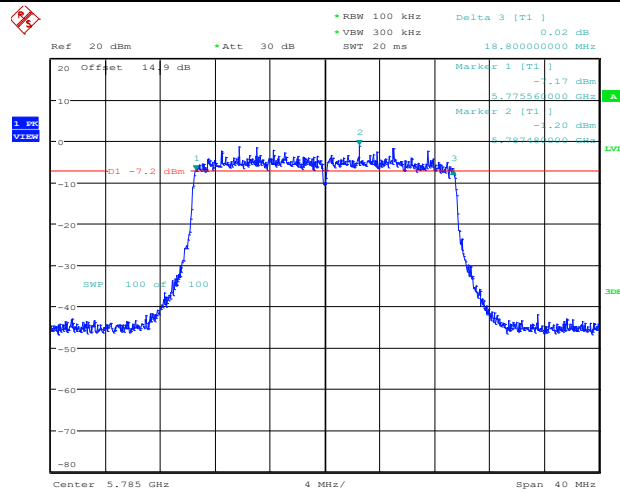
Date: 31.JUL.2023 16:50:24

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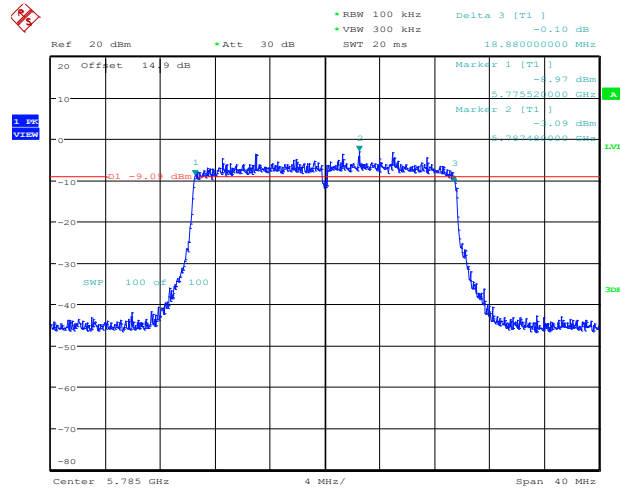
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX20SISO_Ant1_5785



Date: 31.JUL.2023 13:39:21

11AX20SISO_Ant2_5785



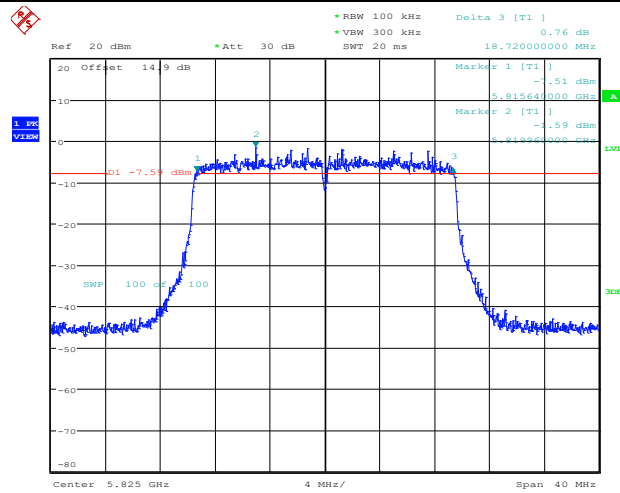
Date: 31.JUL.2023 16:52:07

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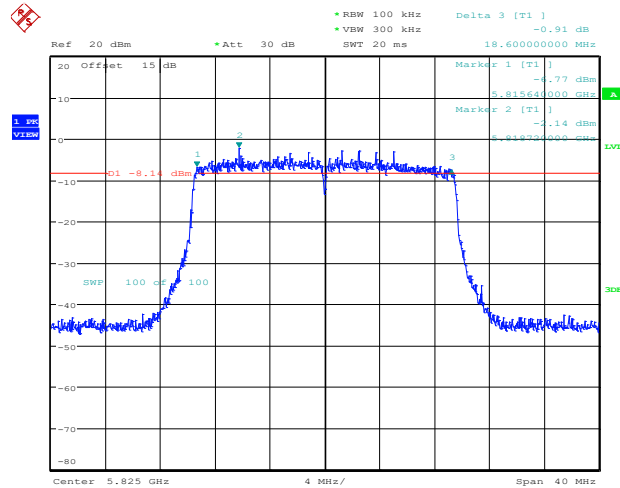
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX20SISO_Ant1_5825



Date: 31.JUL.2023 14:39:27

11AX20SISO_Ant2_5825



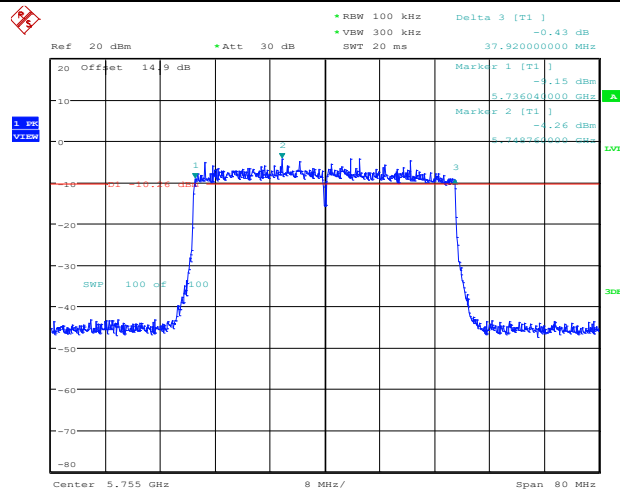
Date: 31.JUL.2023 16:53:50

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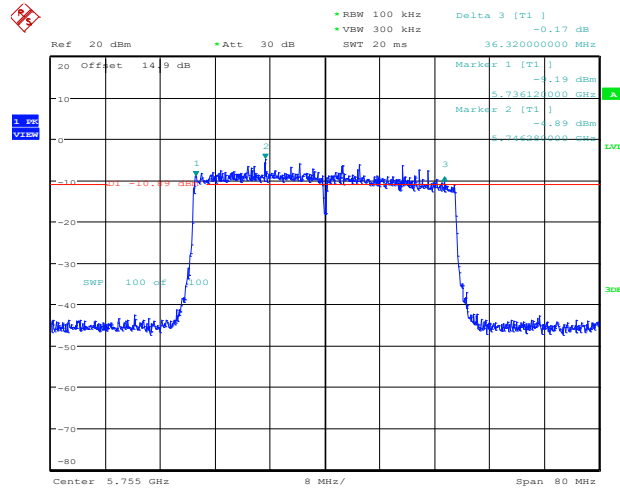
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX40SISO_Ant1_5755



Date: 31.JUL.2023 14:41:27

11AX40SISO_Ant2_5755



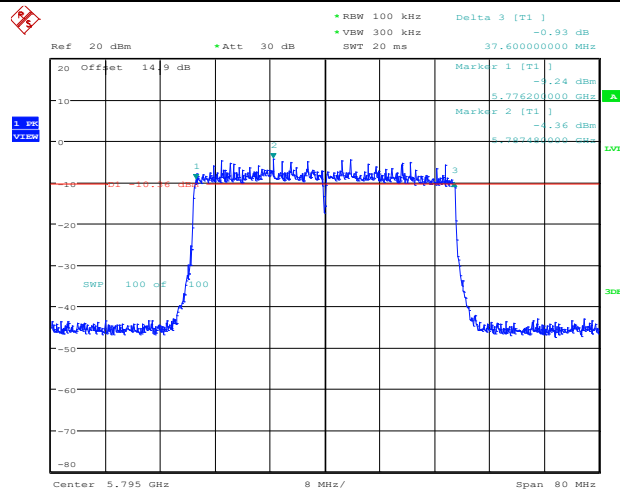
Date: 31.JUL.2023 17:02:34

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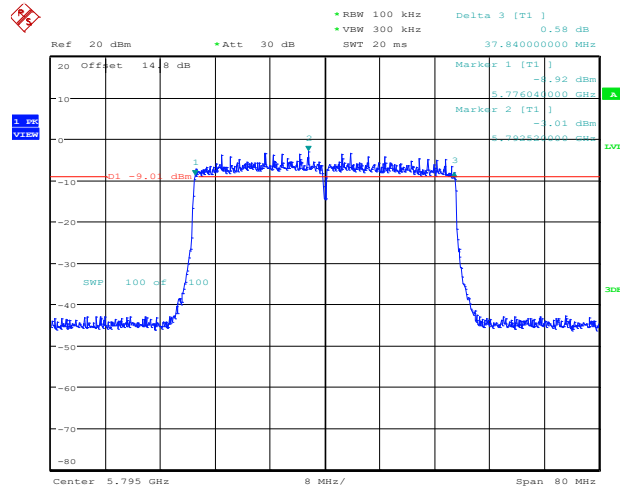
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX40SISO_Ant1_5795



Date: 31.JUL.2023 14:43:10

11AX40SISO_Ant2_5795



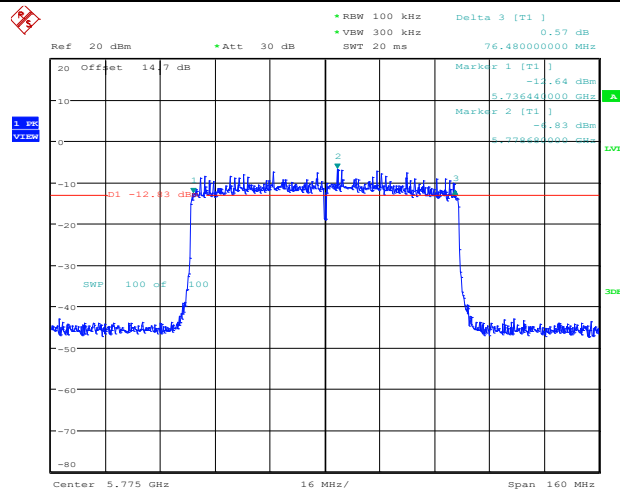
Date: 23.OCT.2023 18:50:49

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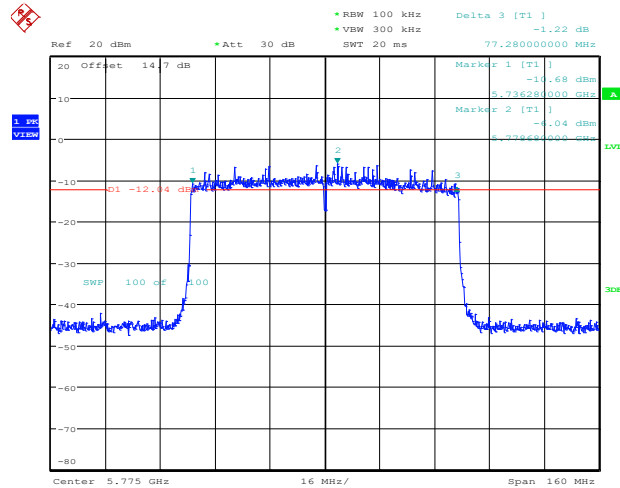
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX80SISO_Ant1_5775



Date: 19.OCT.2023 16:18:45

11AX80SISO_Ant2_5775



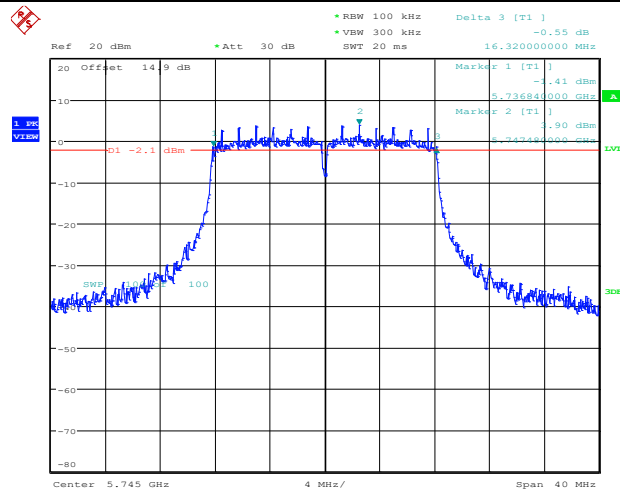
Date: 19.OCT.2023 16:24:25

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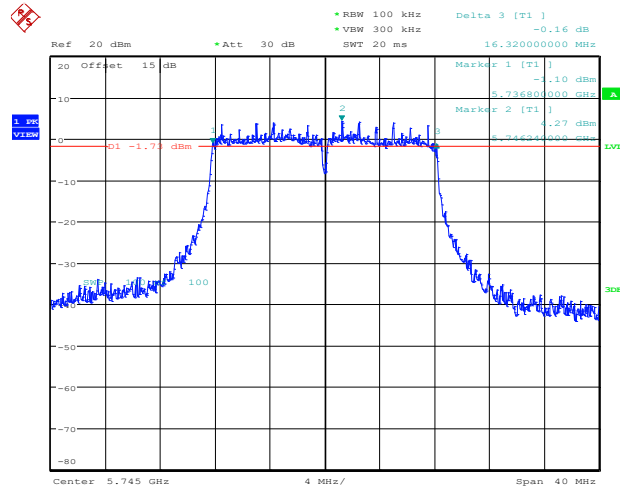
Report No.: I23W00036-WIFI 5.8G RF-FCC

11A-CDD_Ant1_5745



Date: 27.JUL.2023 11:21:23

11A-CDD_Ant2_5745



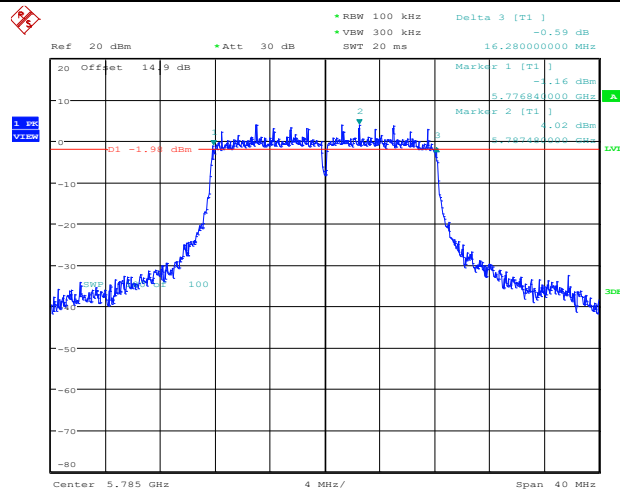
Date: 27.JUL.2023 11:23:31

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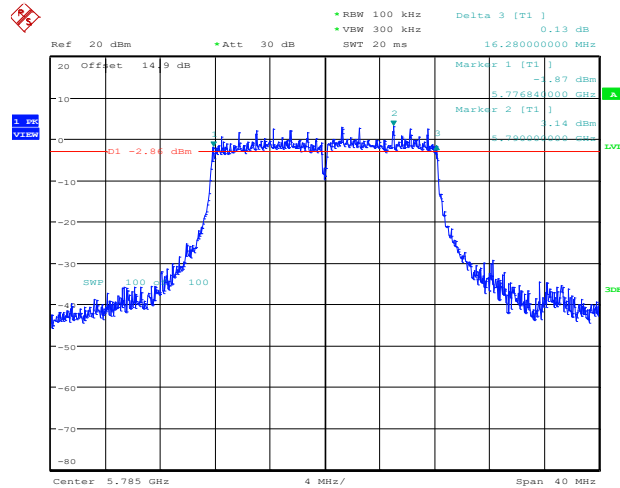
Report No.: I23W00036-WIFI 5.8G RF-FCC

11A-CDD_Ant1_5785



Date: 27.JUL.2023 11:49:24

11A-CDD_Ant2_5785



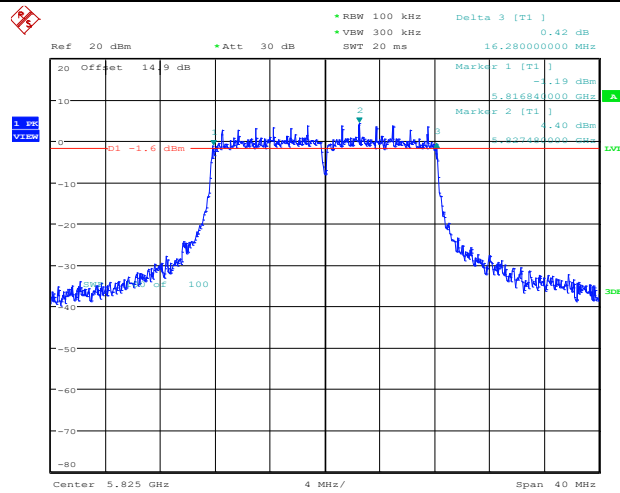
Date: 27.JUL.2023 11:51:07

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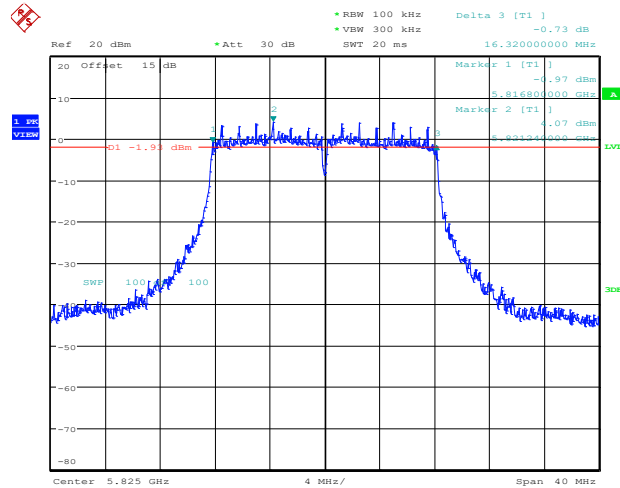
Report No.: I23W00036-WIFI 5.8G RF-FCC

11A-CDD_Ant1_5825



Date: 27.JUL.2023 11:53:36

11A-CDD_Ant2_5825



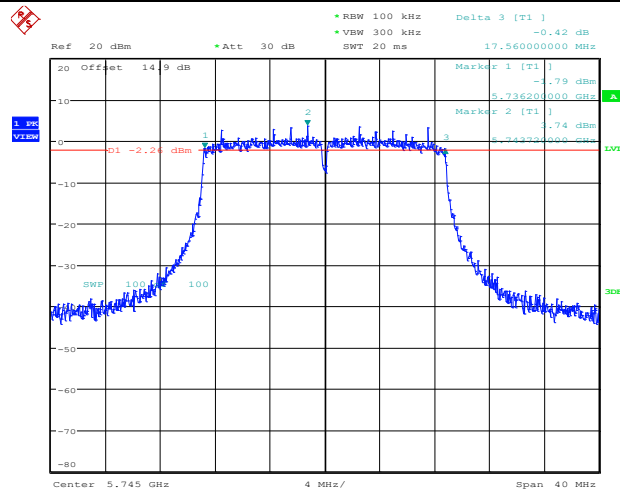
Date: 27.JUL.2023 11:55:41

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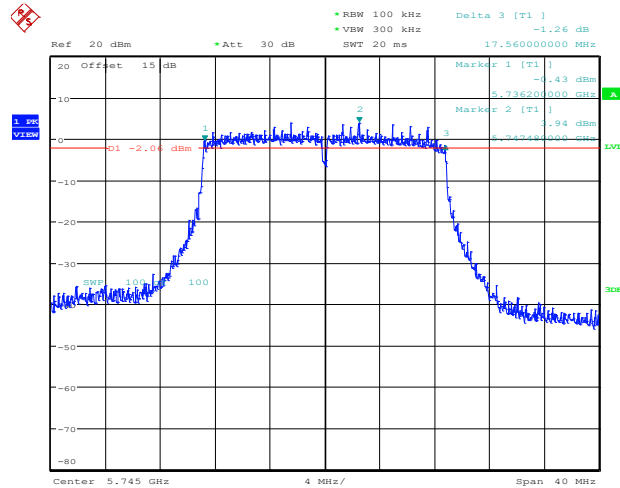
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N20MIMO_Ant1_5745



Date: 27.JUL.2023 13:26:15

11N20MIMO_Ant2_5745



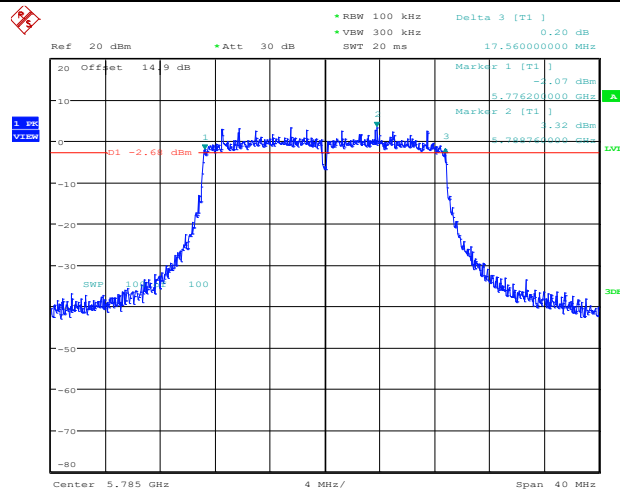
Date: 27.JUL.2023 13:28:19

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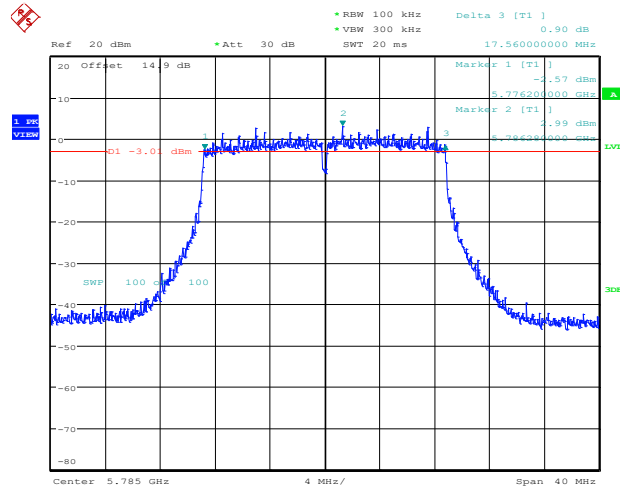
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11N20MIMO_Ant1_5785



Date: 27.JUL.2023 13:31:08

11N20MIMO_Ant2_5785



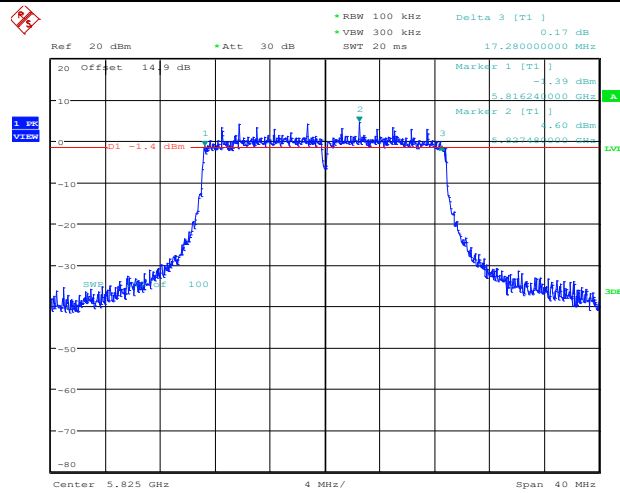
Date: 27.JUL.2023 13:32:48

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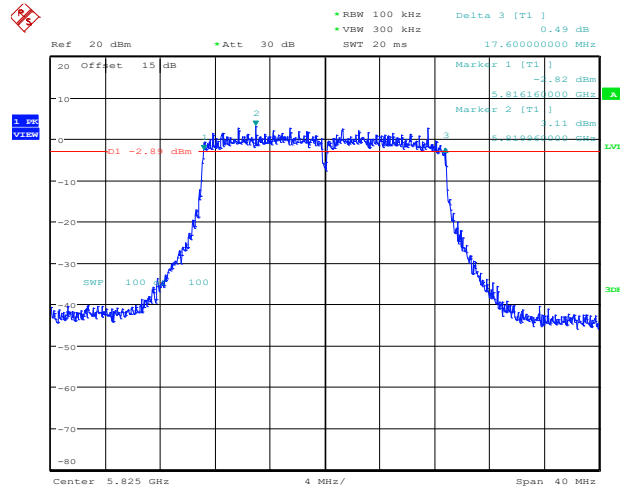
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11N20MIMO_Ant1_5825



Date: 27.JUL.2023 13:35:15

11N20MIMO_Ant2_5825



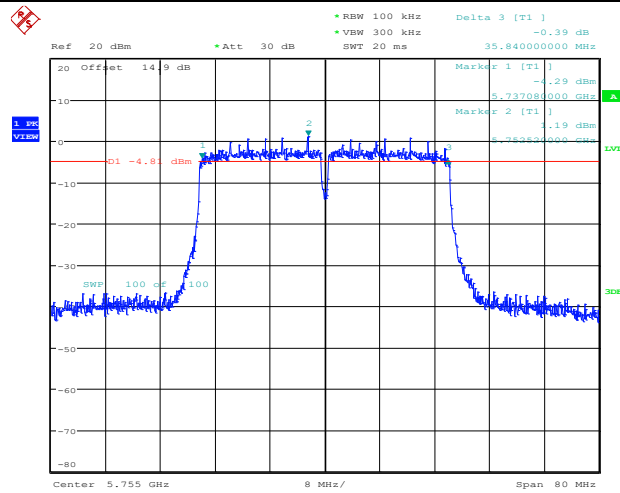
Date: 27.JUL.2023 13:37:18

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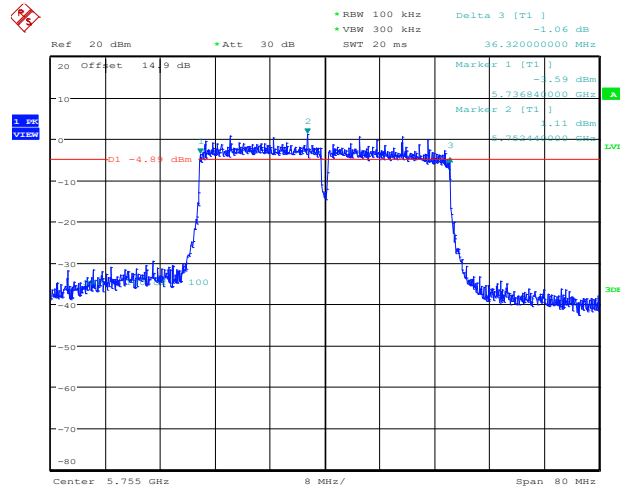
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11N40MIMO_Ant1_5755



Date: 27.JUL.2023 13:41:55

11N40MIMO_Ant2_5755



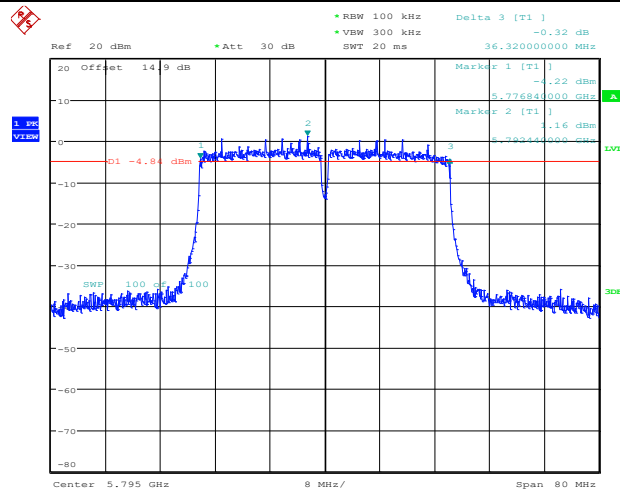
Date: 27.JUL.2023 13:43:57

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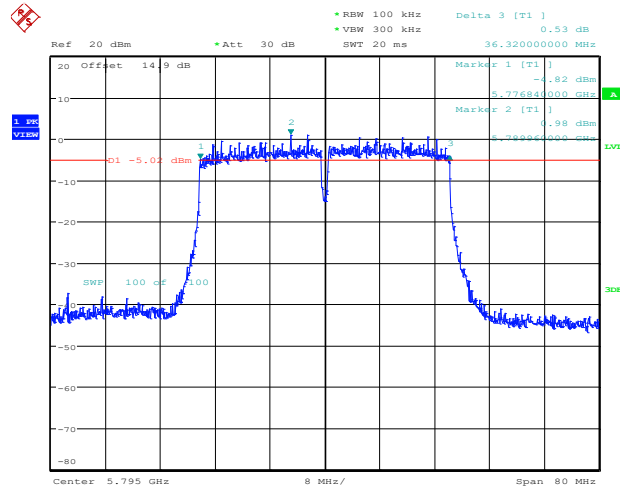
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N40MIMO_Ant1_5795



Date: 27.JUL.2023 13:48:22

11N40MIMO_Ant2_5795



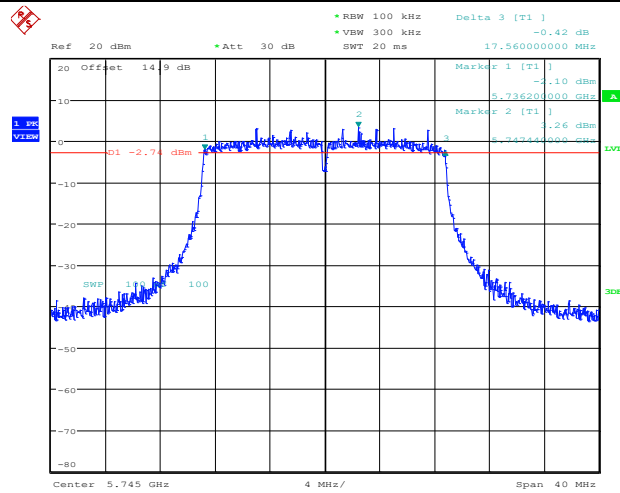
Date: 27.JUL.2023 13:50:22

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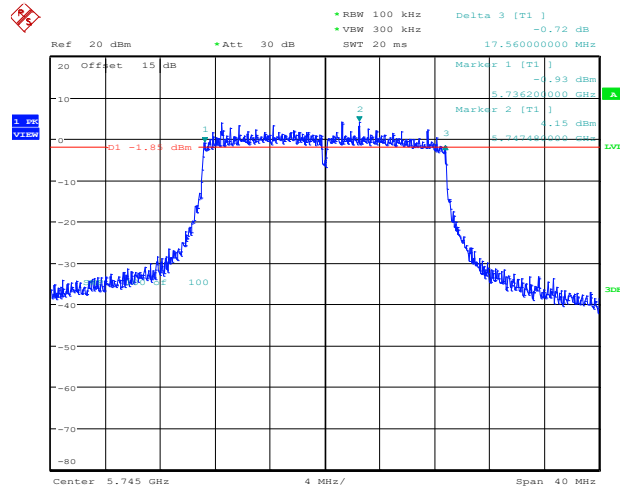
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC20MIMO_Ant1_5745



Date: 27.JUL.2023 14:07:00

11AC20MIMO_Ant2_5745



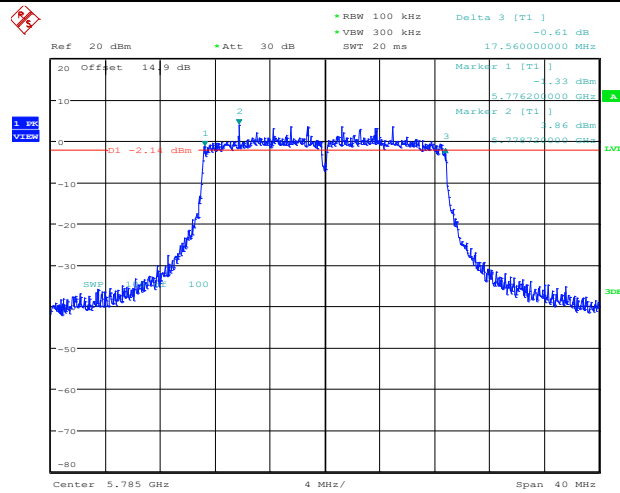
Date: 27.JUL.2023 14:09:10

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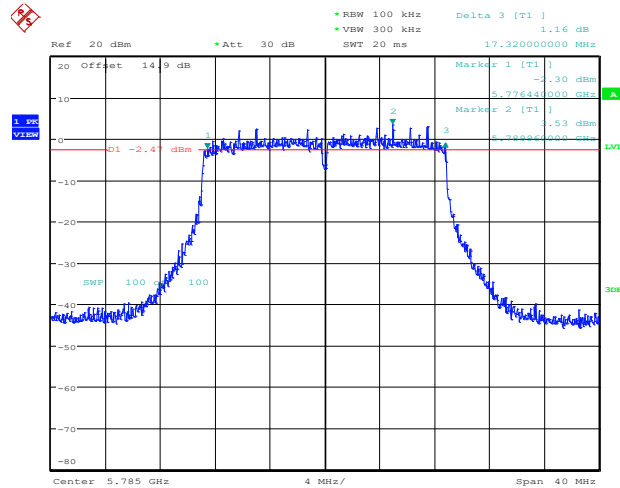
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC20MIMO_Ant1_5785



Date: 27.JUL.2023 14:31:38

11AC20MIMO_Ant2_5785



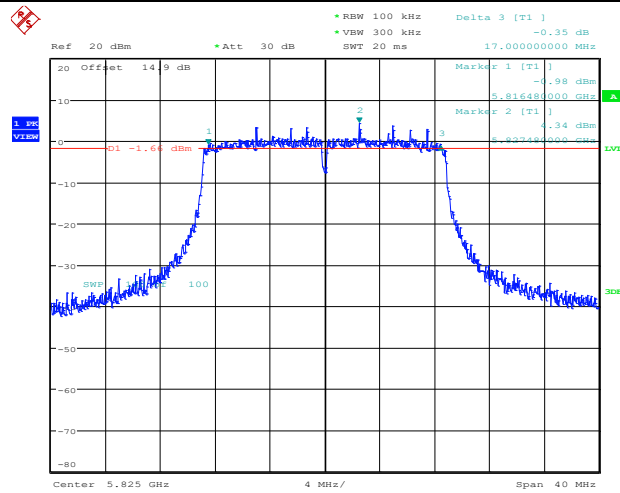
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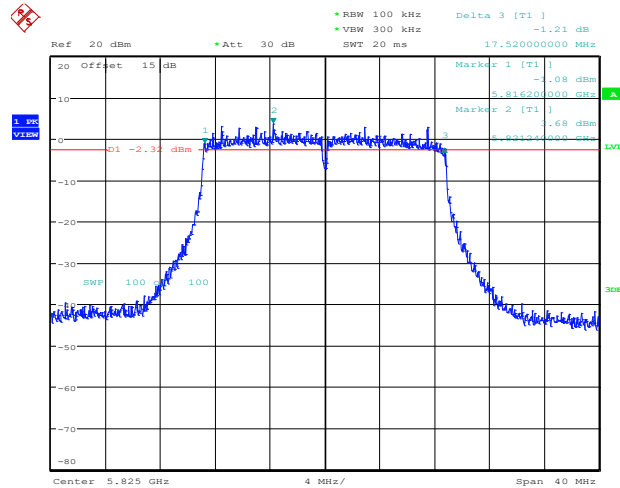
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC20MIMO_Ant1_5825



Date: 27.JUL.2023 14:35:37

11AC20MIMO_Ant2_5825



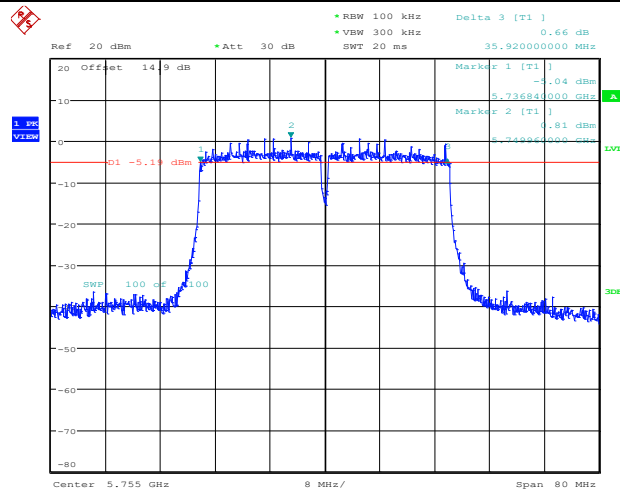
Date: 27.JUL.2023 14:37:38

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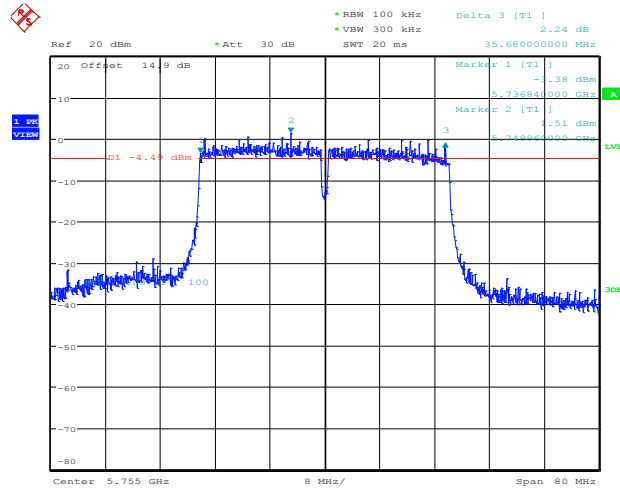
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC40MIMO_Ant1_5755



Date: 27.JUL.2023 15:18:28

11AC40MIMO_Ant2_5755



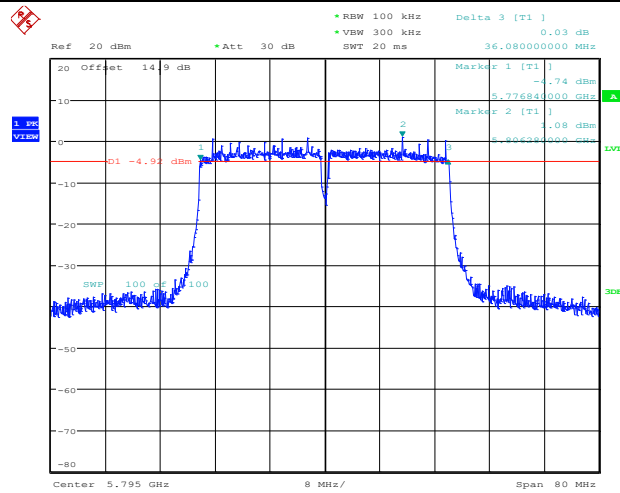
Date: 27.JUL.2023 15:20:29

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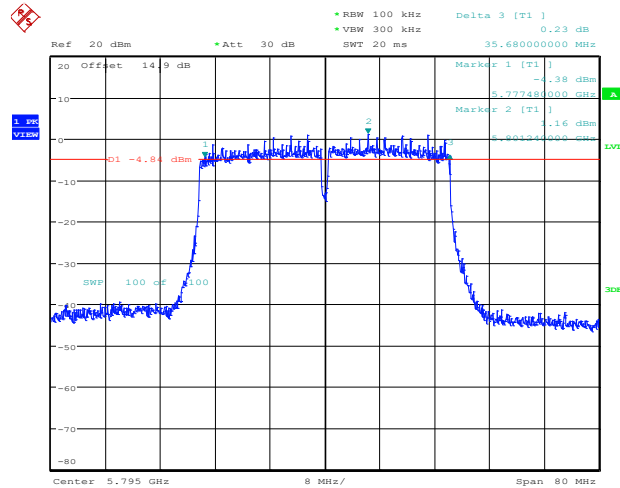
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC40MIMO_Ant1_5795



Date: 27.JUL.2023 15:27:30

11AC40MIMO_Ant2_5795



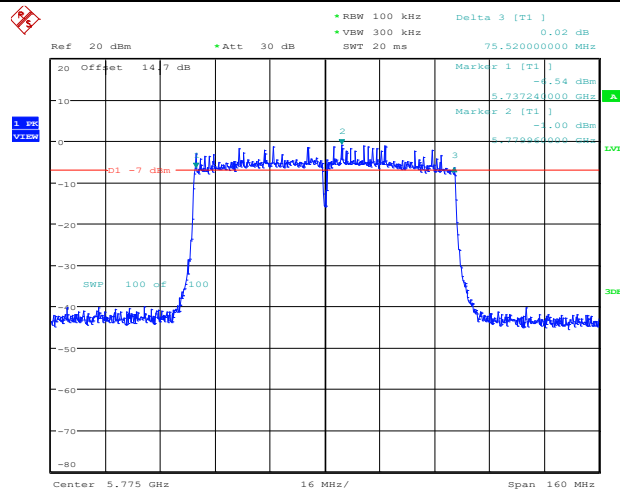
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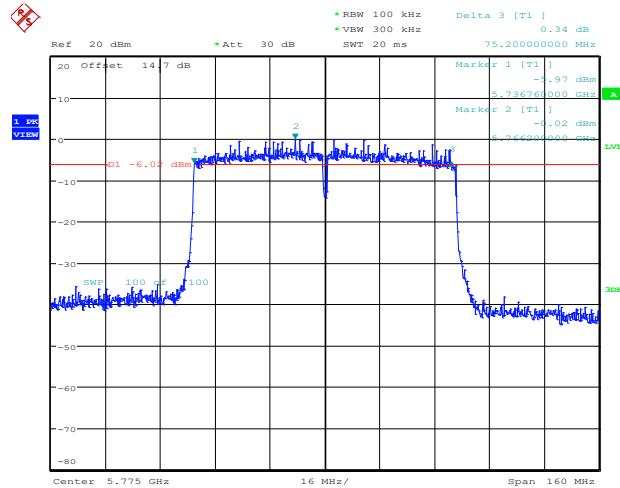
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11AC80MIMO_Ant1_5775



Date: 19.OCT.2023 16:38:50

11AC80MIMO_Ant2_5775



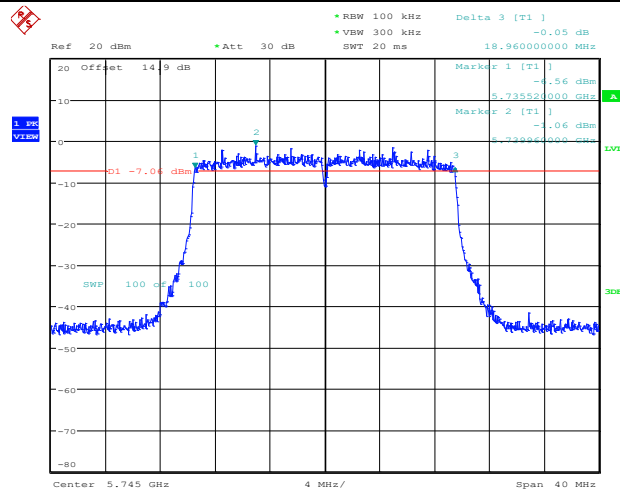
Date: 19.OCT.2023 16:41:20

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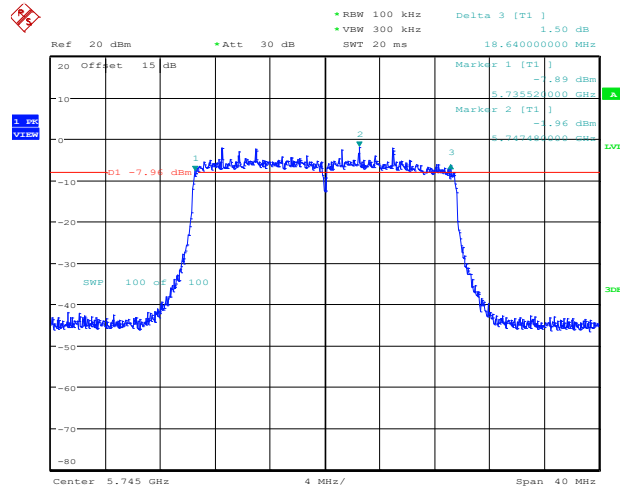
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX20MIMO_Ant1_5745



Date: 28.JUL.2023 10:25:23

11AX20MIMO_Ant2_5745



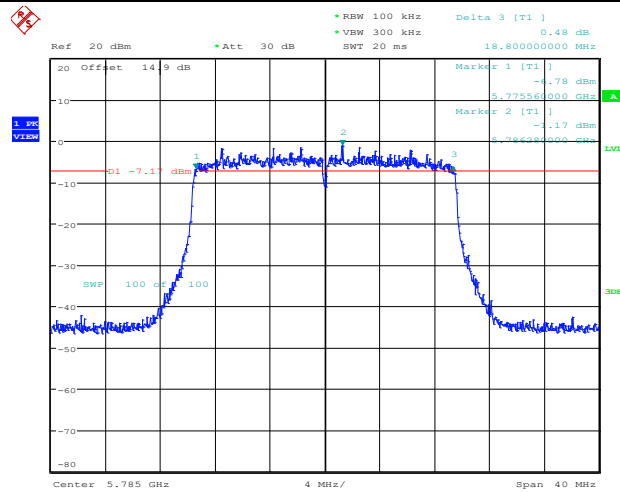
Date: 28.JUL.2023 10:27:31

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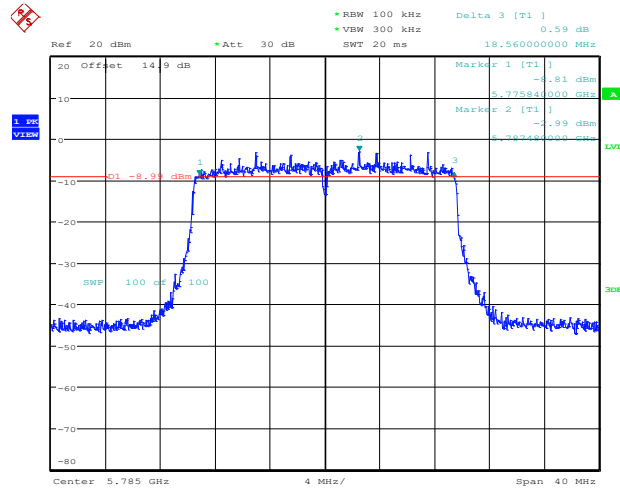
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX20MIMO_Ant1_5785



Date: 28.JUL.2023 13:47:49

11AX20MIMO_Ant2_5785



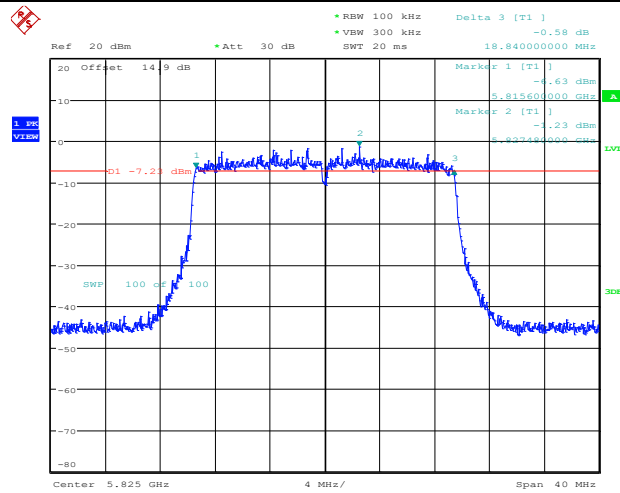
Date: 28.JUL.2023 13:49:37

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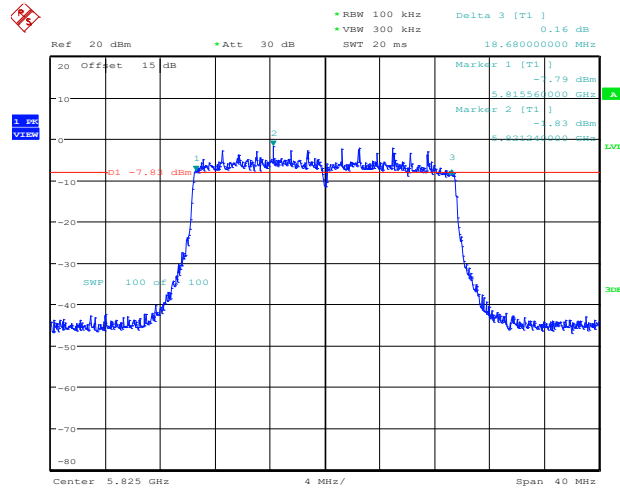
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX20MIMO_Ant1_5825



Date: 28.JUL.2023 13:52:10

11AX20MIMO_Ant2_5825



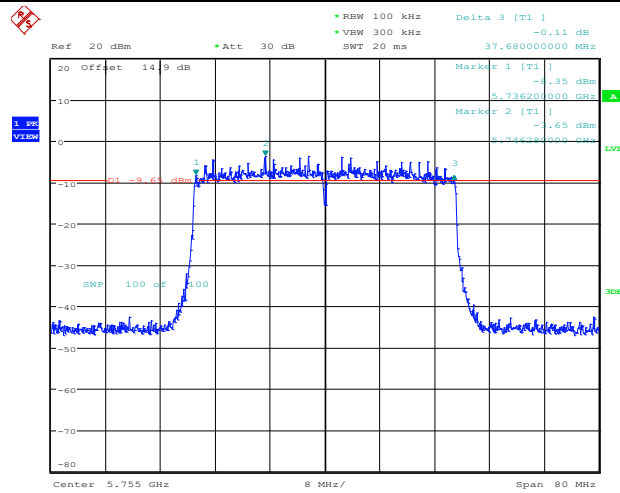
Date: 28.JUL.2023 13:54:18

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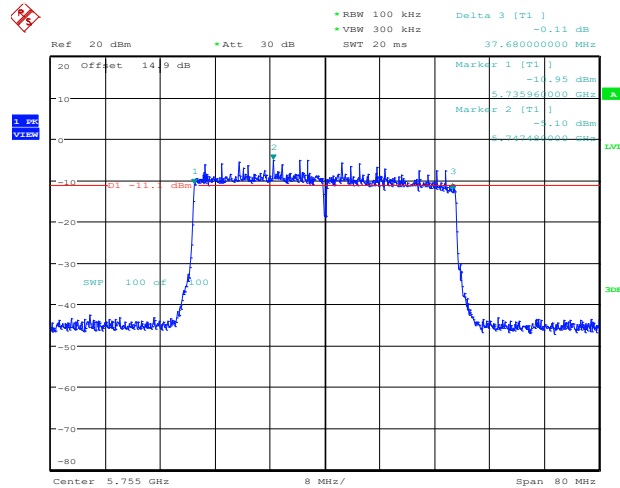
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX40MIMO_Ant1_5755



Date: 28.JUL.2023 14:34:45

11AX40MIMO_Ant2_5755



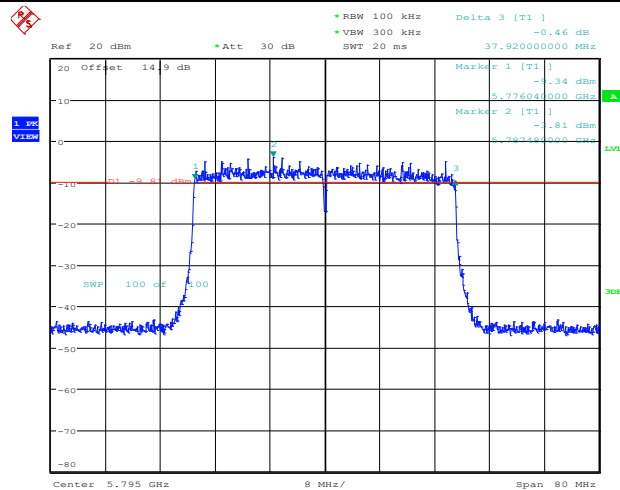
Date: 28.JUL.2023 14:36:48

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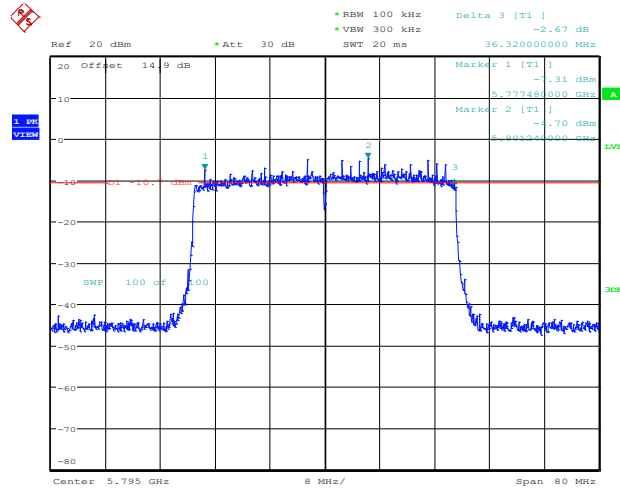
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX40MIMO_Ant1_5795



Date: 28.JUL.2023 14:39:23

11AX40MIMO_Ant2_5795



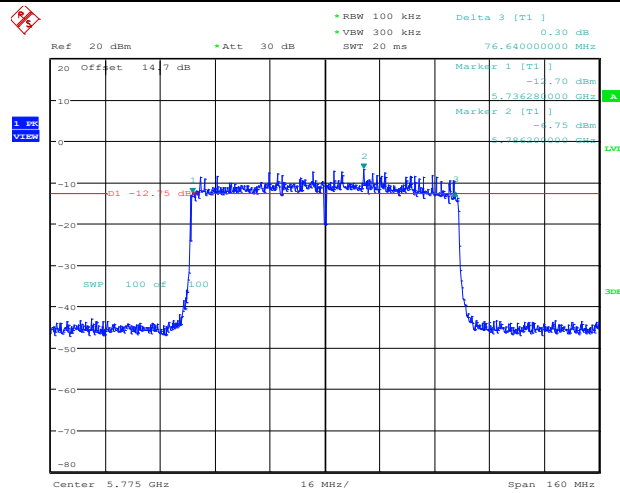
Date: 28.JUL.2023 14:41:26

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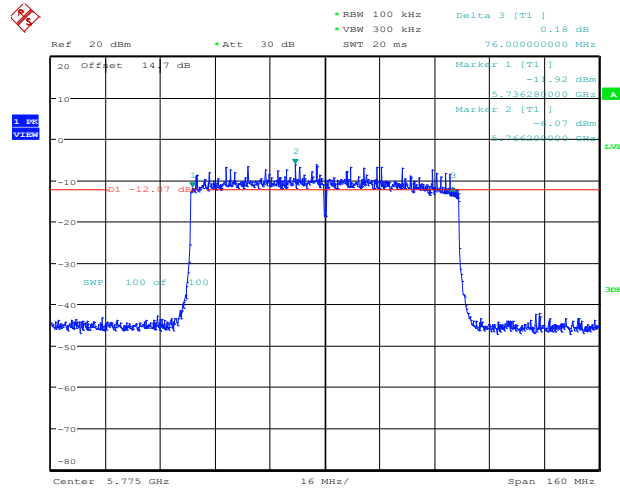
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX80MIMO_Ant1_5775



Date: 19.OCT.2023 16:44:20

11AX80MIMO_Ant2_5775



Date: 19.OCT.2023 17:21:47

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26dB Occupied Bandwidth Measurement Results:

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5745	19.12	5735.28	5754.40
	Ant2	5745	19.32	5735.24	5754.56
	Ant1	5785	19.40	5775.24	5794.64
	Ant2	5785	19.40	5775.28	5794.68
	Ant1	5825	19.64	5815.08	5834.72
	Ant2	5825	19.16	5815.16	5834.32
11N20SISO	Ant1	5745	21.20	5734.20	5755.40
	Ant2	5745	20.48	5734.76	5755.24
	Ant1	5785	20.64	5774.52	5795.16
	Ant2	5785	20.68	5774.64	5795.32
	Ant1	5825	21.20	5814.36	5835.56
	Ant2	5825	20.52	5814.64	5835.16
11N40SISO	Ant1	5755	40.48	5734.84	5775.32
	Ant2	5755	40.24	5734.76	5775.00
	Ant1	5795	40.24	5774.84	5815.08
	Ant2	5795	40.40	5774.92	5815.32
11AC20SISO	Ant1	5745	20.68	5734.56	5755.24
	Ant2	5745	20.72	5734.60	5755.32
	Ant1	5785	20.92	5774.64	5795.56
	Ant2	5785	20.60	5774.76	5795.36
	Ant1	5825	21.04	5814.44	5835.48
	Ant2	5825	20.68	5814.64	5835.32
11AC40SISO	Ant1	5755	40.80	5734.44	5775.24
	Ant2	5755	40.48	5734.52	5775.00
	Ant1	5795	40.64	5774.76	5815.40
	Ant2	5795	40.32	5774.92	5815.24
11AC80SISO	Ant1	5775	83.04	5733.08	5816.12
	Ant2	5775	82.88	5733.56	5816.44
11AX20SISO	Ant1	5745	21.20	5734.36	5755.56
	Ant2	5745	20.88	5734.44	5755.32
	Ant1	5785	20.96	5774.48	5795.44
	Ant2	5785	21.12	5774.44	5795.56
	Ant1	5825	21.08	5814.52	5835.60
	Ant2	5825	21.00	5814.48	5835.48
11AX40SISO	Ant1	5755	40.80	5734.60	5775.40
	Ant2	5755	40.72	5734.60	5775.32
	Ant1	5795	40.88	5774.44	5815.32

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Report No.: I23W00036-WIFI 5.8G RF-FCC

	Ant2	5795	41.20	5774.28	5815.48
11AX80SISO	Ant1	5775	83.36	5733.24	5816.60
	Ant2	5775	83.20	5733.24	5816.44
11A-CDD	Ant1	5745	19.28	5735.28	5754.56
	Ant2	5745	19.28	5735.32	5754.60
	Ant1	5785	20.08	5774.72	5794.80
	Ant2	5785	19.72	5774.96	5794.68
	Ant1	5825	19.92	5814.72	5834.64
	Ant2	5825	19.20	5815.32	5834.52
11N20MIMO	Ant1	5745	20.68	5734.72	5755.40
	Ant2	5745	20.16	5734.80	5754.96
	Ant1	5785	20.80	5774.60	5795.40
	Ant2	5785	20.04	5775.00	5795.04
	Ant1	5825	20.84	5814.52	5835.36
	Ant2	5825	20.12	5814.80	5834.92
11N40MIMO	Ant1	5755	40.56	5734.92	5775.48
	Ant2	5755	39.84	5734.92	5774.76
	Ant1	5795	40.24	5774.92	5815.16
	Ant2	5795	39.68	5775.16	5814.84
11AC20MIMO	Ant1	5745	20.68	5734.72	5755.40
	Ant2	5745	20.48	5734.60	5755.08
	Ant1	5785	20.68	5774.64	5795.32
	Ant2	5785	20.20	5774.88	5795.08
	Ant1	5825	20.64	5814.72	5835.36
	Ant2	5825	20.24	5814.80	5835.04
11AC40MIMO	Ant1	5755	40.64	5734.68	5775.32
	Ant2	5755	39.92	5734.76	5774.68
	Ant1	5795	40.64	5774.76	5815.40
	Ant2	5795	39.36	5775.40	5814.76
11AC80MIMO	Ant1	5775	83.04	5733.56	5816.60
	Ant2	5775	82.56	5733.56	5816.12
11AX20MIMO	Ant1	5745	21.04	5734.48	5755.52
	Ant2	5745	21.20	5734.36	5755.56
	Ant1	5785	21.04	5774.52	5795.56
	Ant2	5785	21.24	5774.40	5795.64
	Ant1	5825	21.08	5814.40	5835.48
	Ant2	5825	21.24	5814.28	5835.52
11AX40MIMO	Ant1	5755	41.12	5734.44	5775.56
	Ant2	5755	40.80	5734.52	5775.32
	Ant1	5795	41.04	5774.44	5815.48

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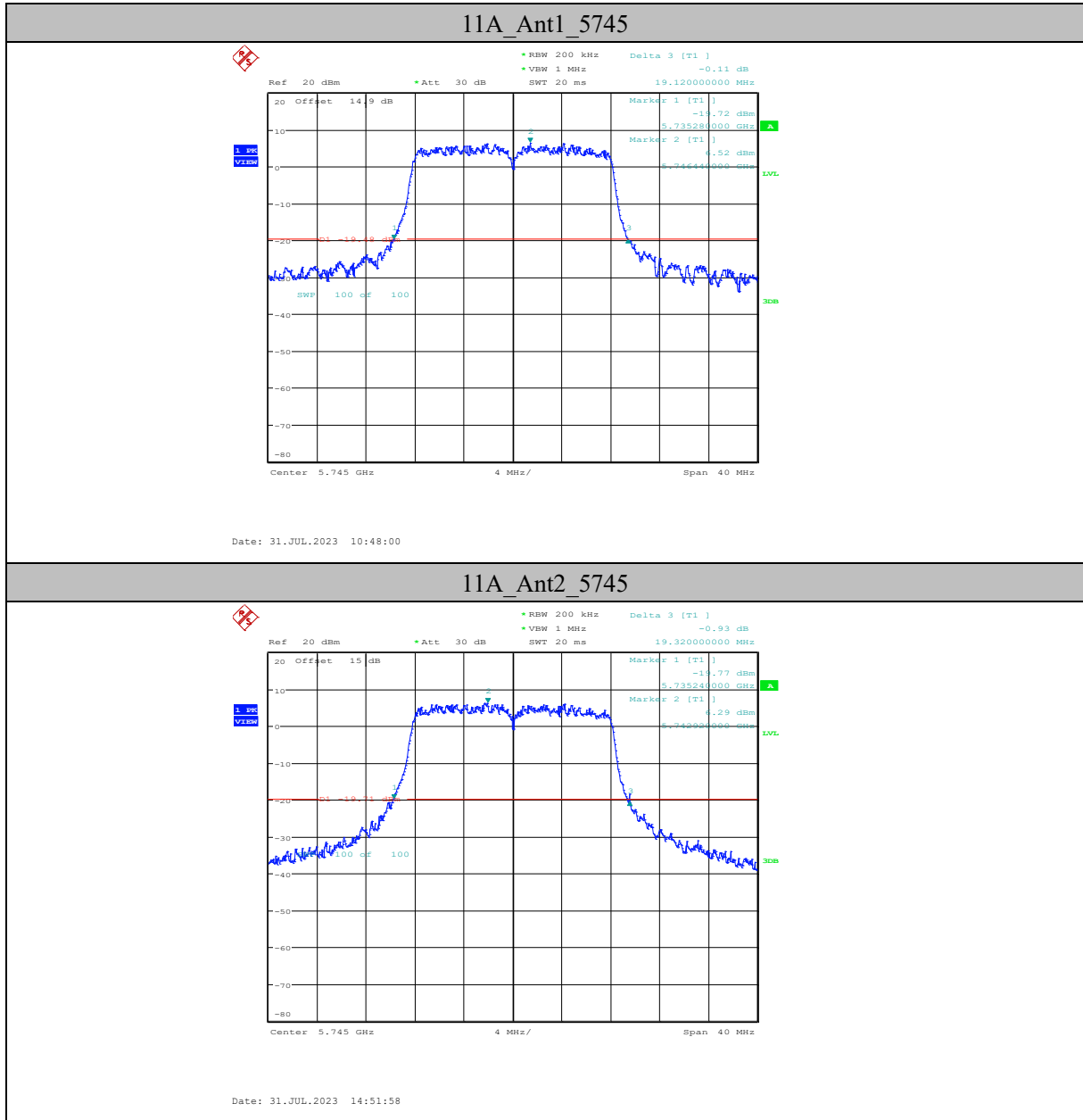
**Report No.: I23W00036-WIFI 5.8G RF-FCC**

	Ant2	5795	40.88	5774.68	5815.56
11AX80MIMO	Ant1	5775	82.88	5733.40	5816.28
	Ant2	5775	83.04	5733.40	5816.44

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Test Graphs

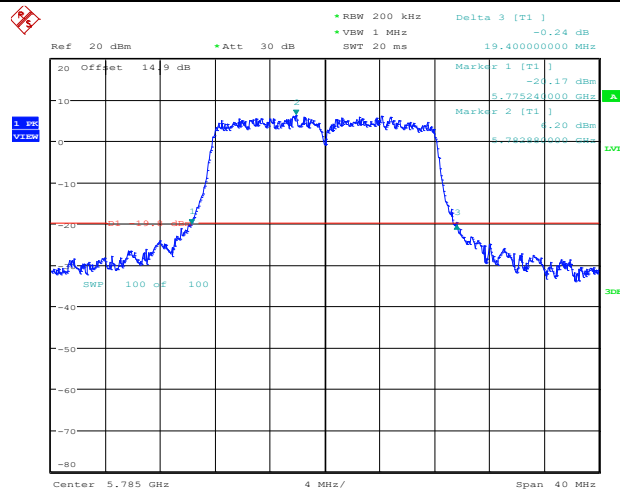


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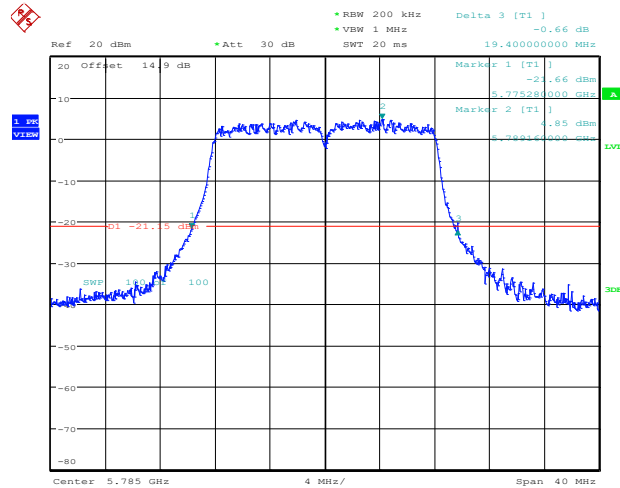
Report No.: I23W00036-WIFI 5.8G RF-FCC

11A_Ant1_5785



Date: 31.JUL.2023 10:49:41

11A_Ant2_5785



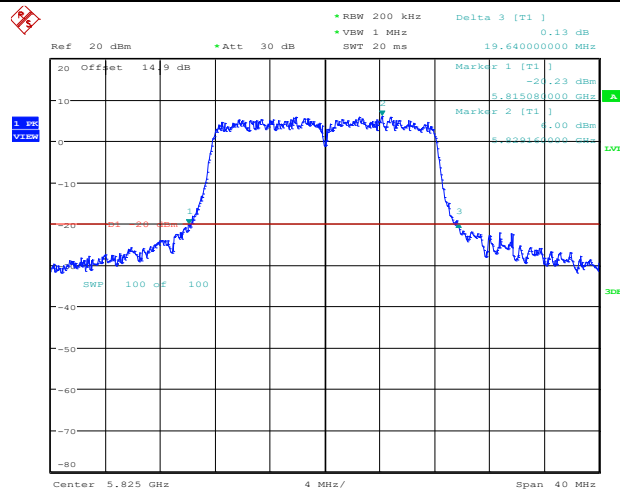
Date: 31.JUL.2023 14:53:59

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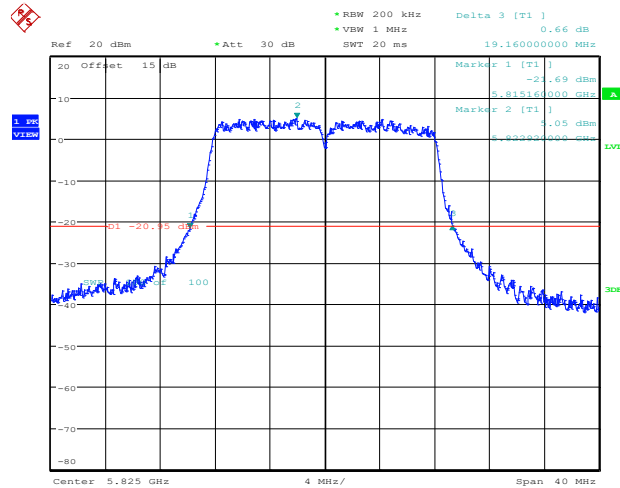
Report No.: I23W00036-WIFI 5.8G RF-FCC

11A_Ant1_5825



Date: 31.JUL.2023 10:51:21

11A_Ant2_5825



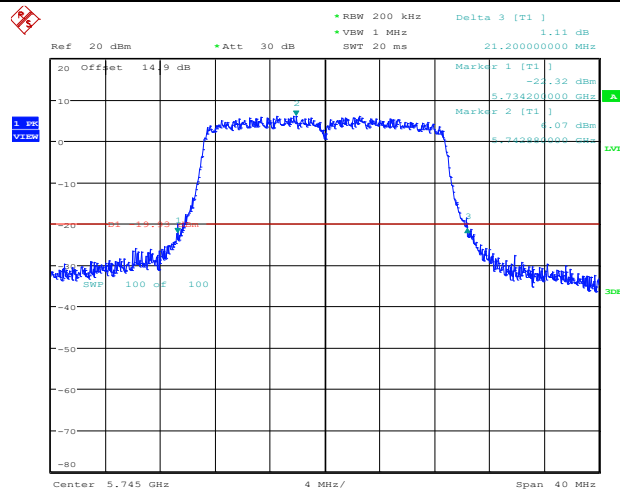
Date: 31.JUL.2023 14:58:55

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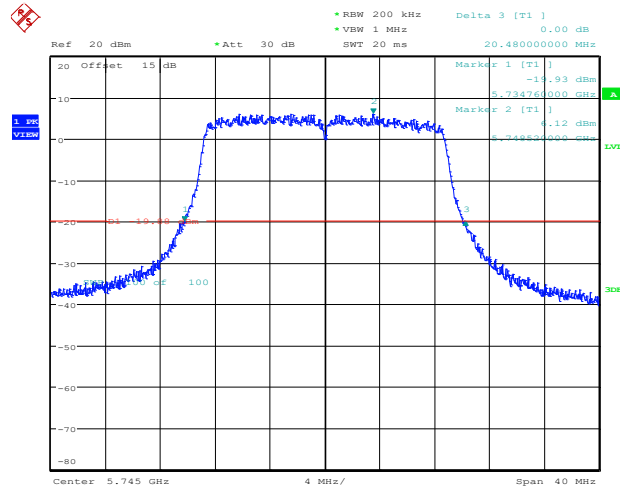
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N20SISO_Ant1_5745



Date: 31.JUL.2023 10:53:23

11N20SISO_Ant2_5745



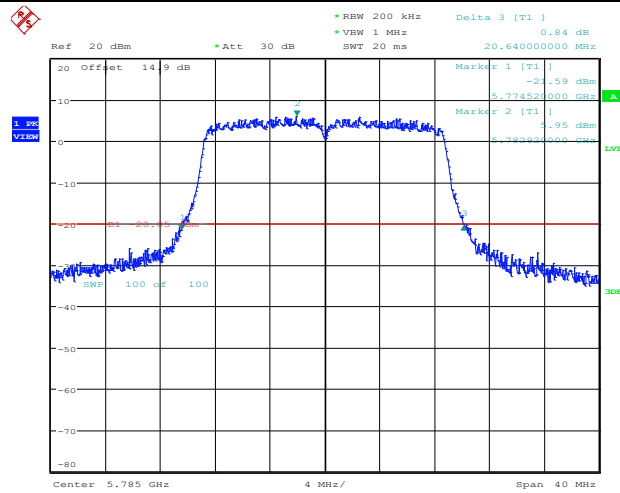
Date: 31.JUL.2023 15:46:18

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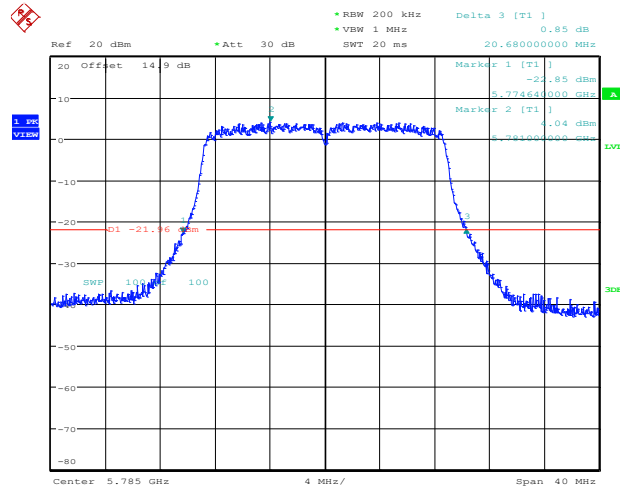
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N20SISO_Ant1_5785



Date: 31.JUL.2023 10:55:08

11N20SISO_Ant2_5785



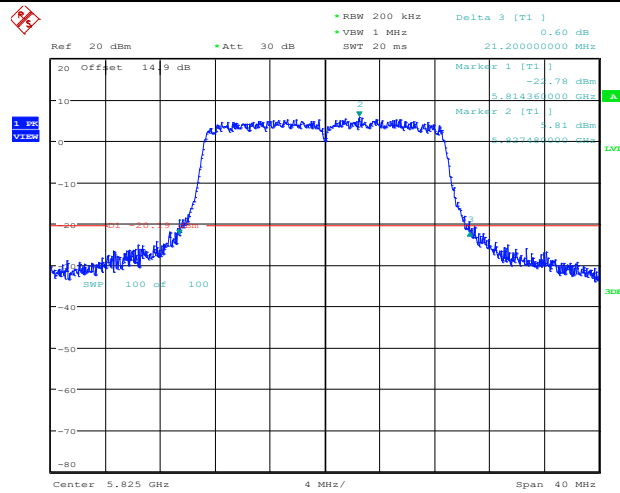
Date: 31.JUL.2023 15:48:02

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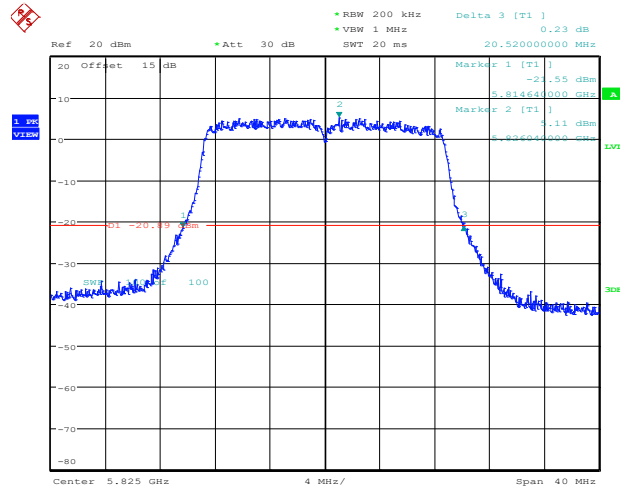
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N20SISO_Ant1_5825



Date: 31.JUL.2023 10:56:47

11N20SISO_Ant2_5825



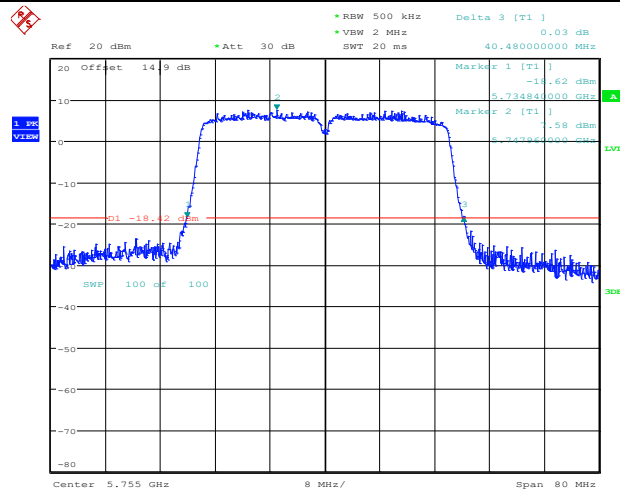
Date: 31.JUL.2023 16:02:12

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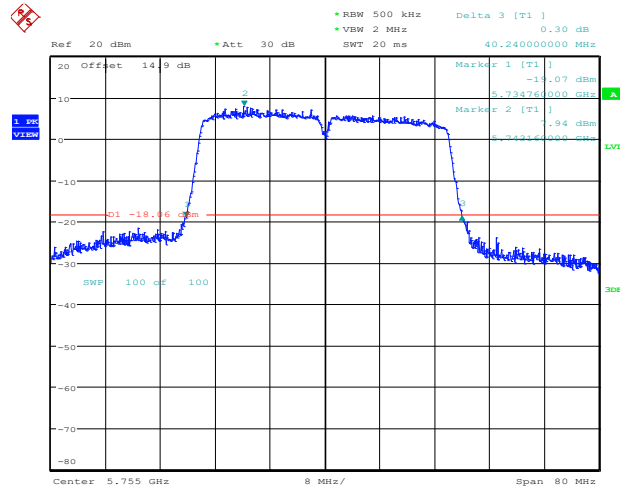
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N40SISO_Ant1_5755



Date: 31.JUL.2023 10:58:33

11N40SISO_Ant2_5755



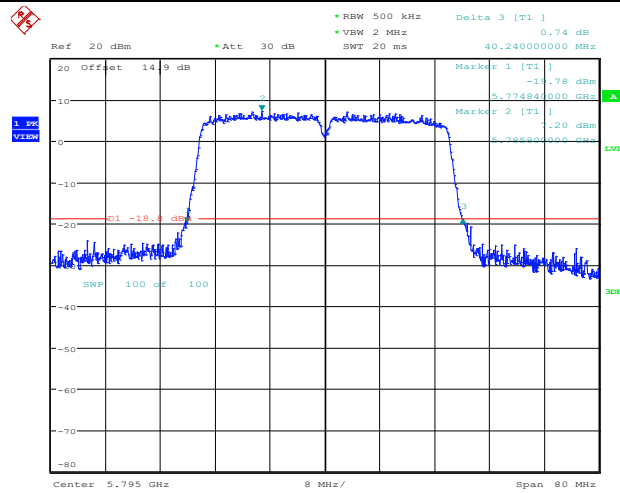
Date: 31.JUL.2023 16:09:44

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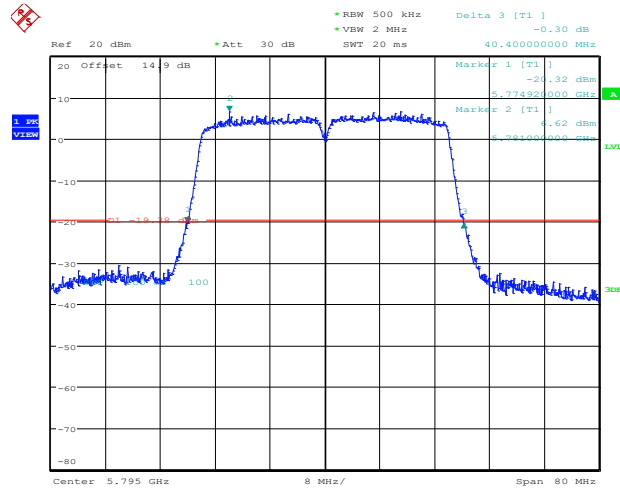
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N40SISO_Ant1_5795



Date: 31.JUL.2023 11:00:49

11N40SISO_Ant2_5795



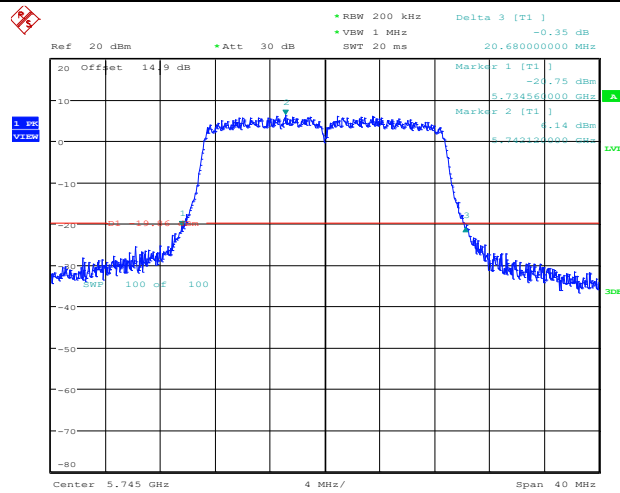
Date: 31.JUL.2023 16:16:22

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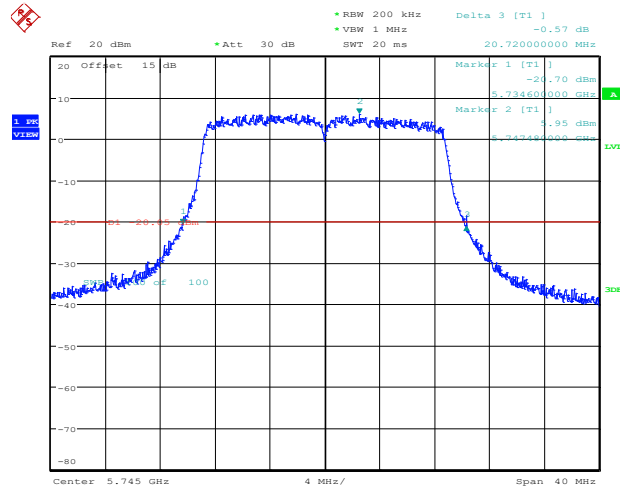
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC20SISO_Ant1_5745



Date: 31.JUL.2023 11:03:34

11AC20SISO_Ant2_5745



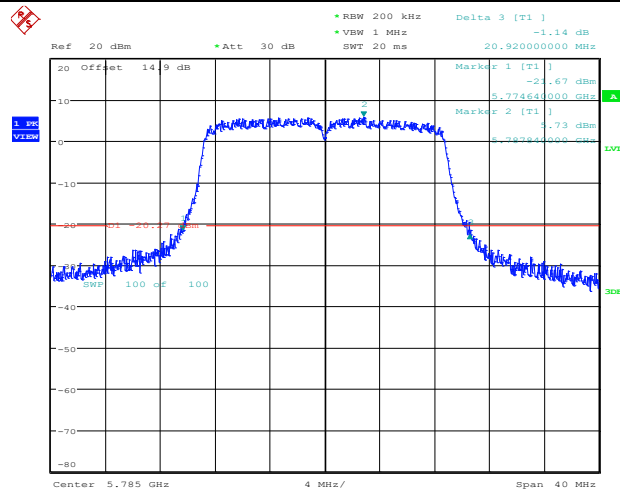
Date: 31.JUL.2023 16:18:26

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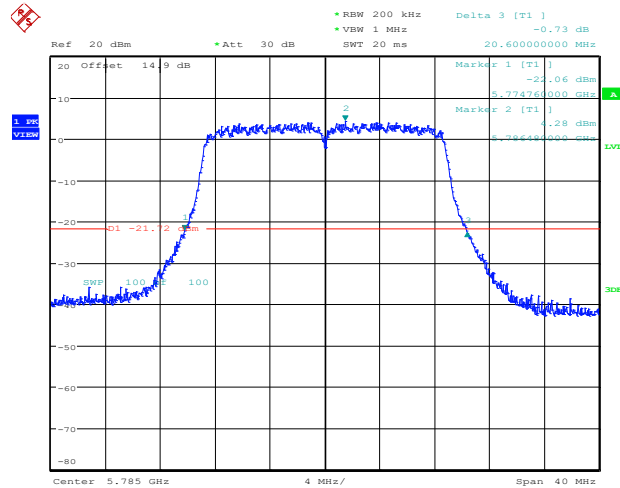
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC20SISO_Ant1_5785



Date: 31.JUL.2023 11:06:27

11AC20SISO_Ant2_5785



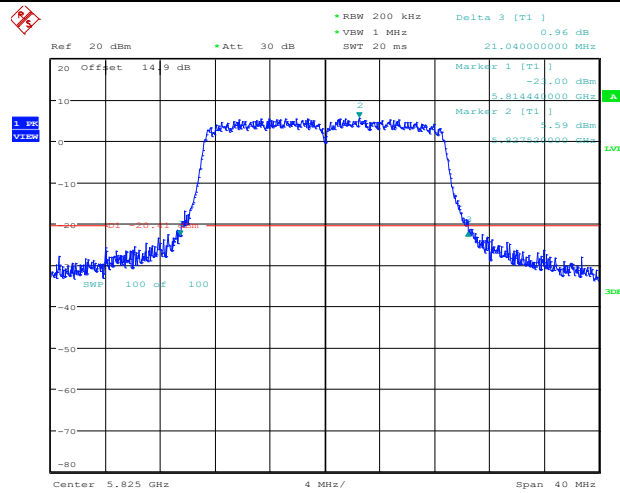
Date: 31.JUL.2023 16:20:50

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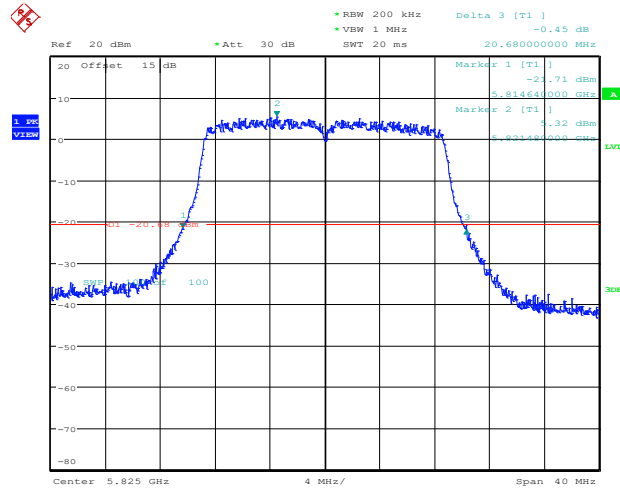
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC20SISO_Ant1_5825



Date: 31.JUL.2023 11:08:05

11AC20SISO_Ant2_5825



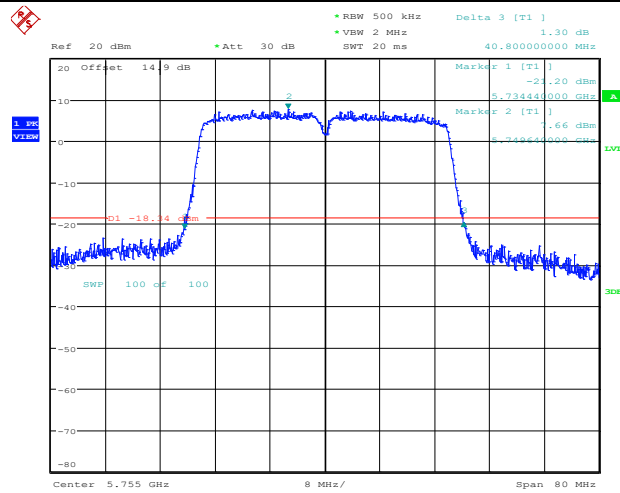
Date: 31.JUL.2023 16:22:37

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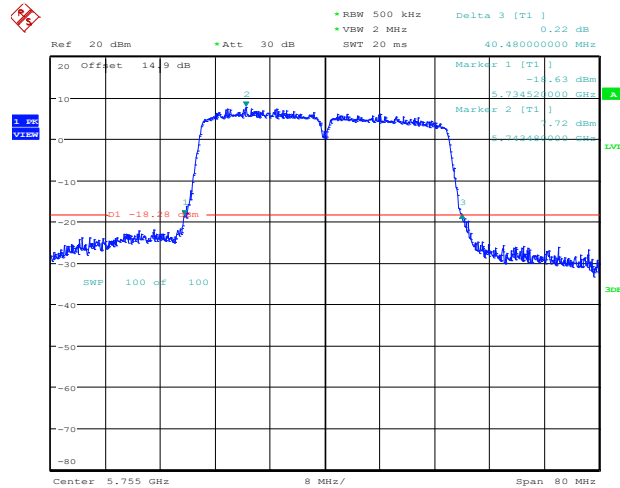
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC40SISO_Ant1_5755



Date: 31.JUL.2023 11:10:26

11AC40SISO_Ant2_5755



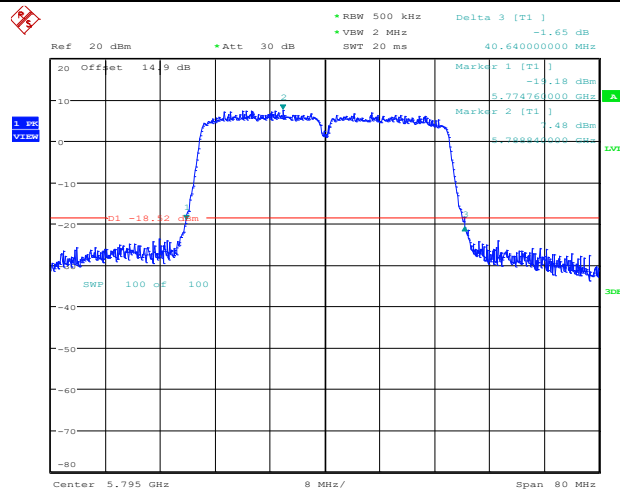
Date: 31.JUL.2023 16:24:43

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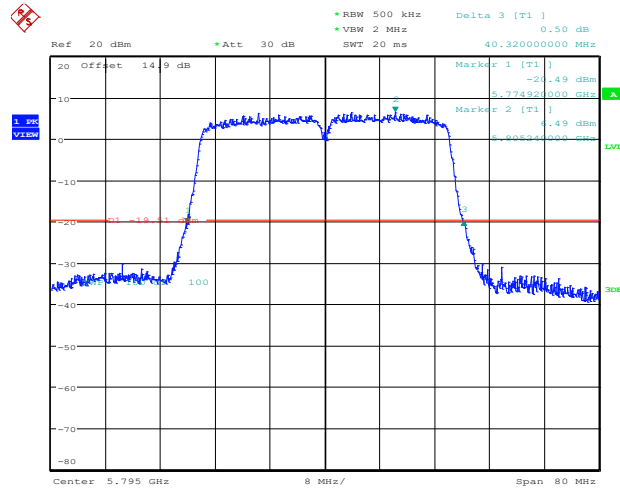
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC40SISO_Ant1_5795



Date: 31.JUL.2023 11:13:56

11AC40SISO_Ant2_5795



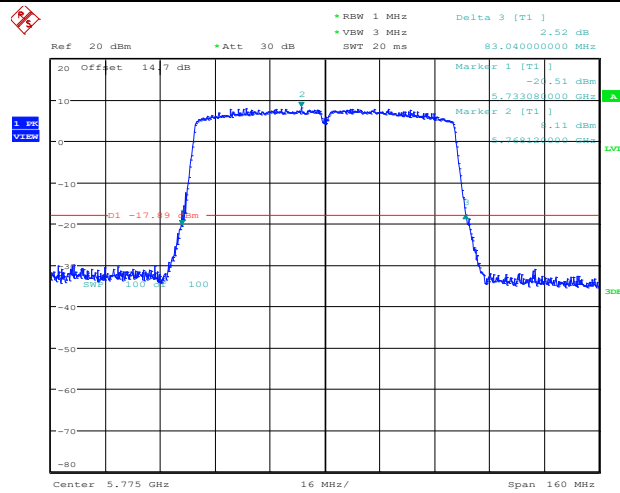
Date: 31.JUL.2023 16:29:51

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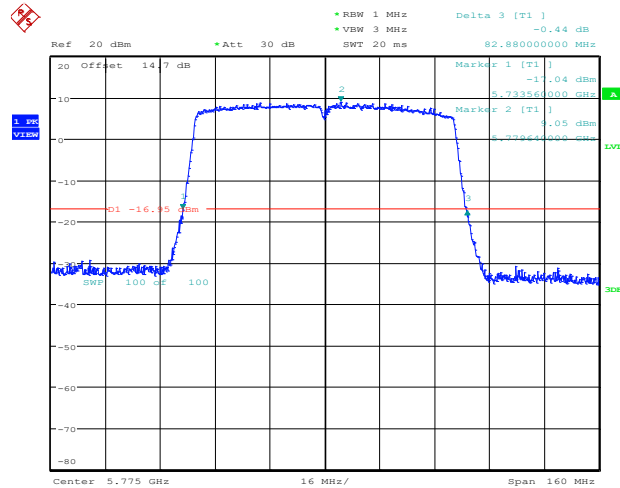
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC80SISO_Ant1_5775



Date: 19.OCT.2023 16:14:49

11AC80SISO_Ant2_5775



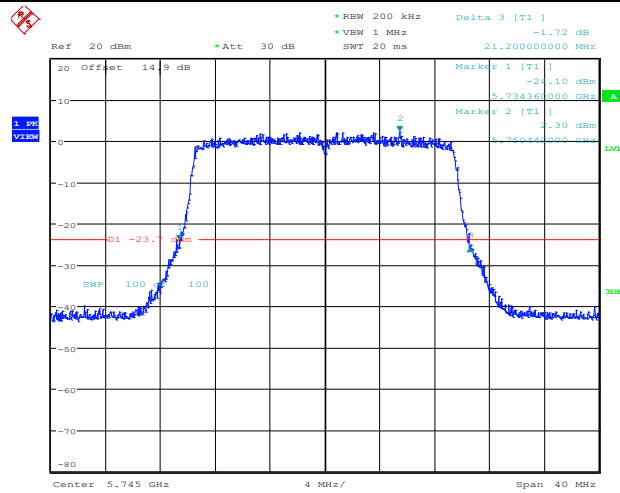
Date: 19.OCT.2023 16:21:24

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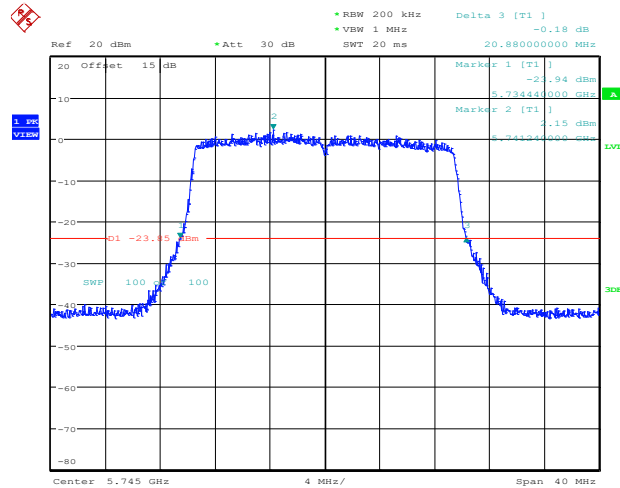
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX20SISO_Ant1_5745



Date: 31.JUL.2023 13:37:10

11AX20SISO_Ant2_5745



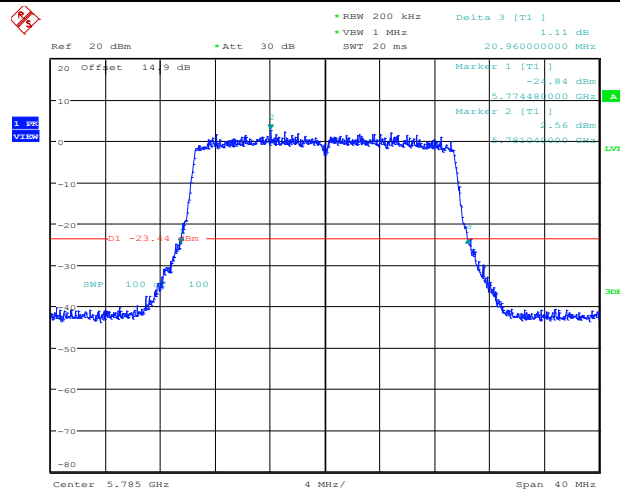
Date: 31.JUL.2023 16:50:14

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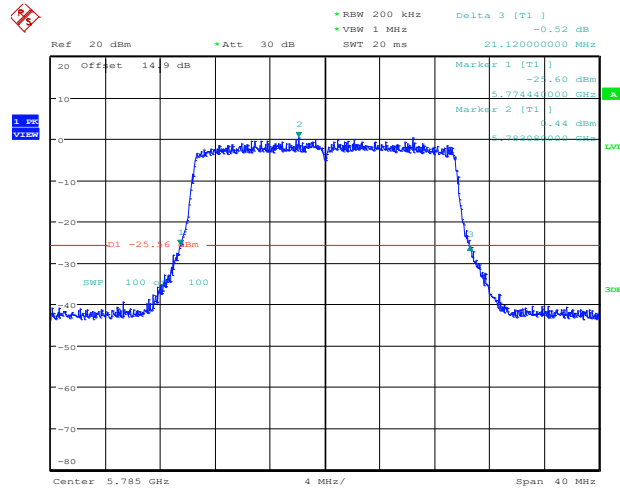
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX20SISO_Ant1_5785



Date: 31.JUL.2023 13:39:10

11AX20SISO_Ant2_5785



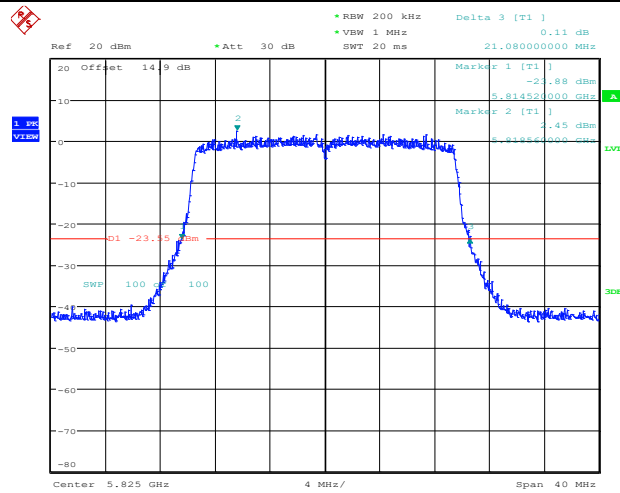
Date: 31.JUL.2023 16:51:55

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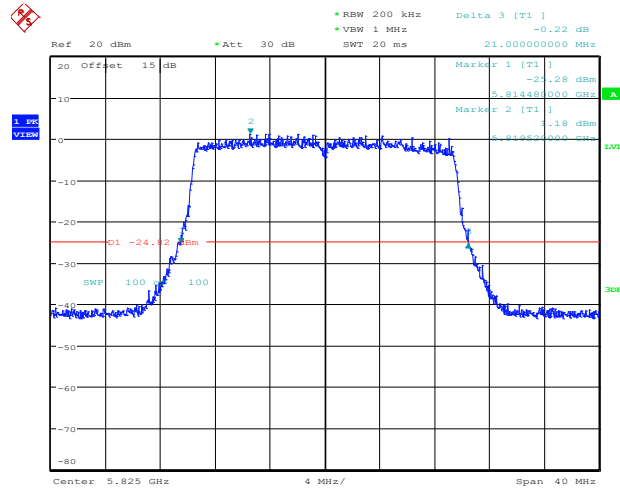
Report No.: I23W00036-WIFI 5.8G RF-FCC

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11AX20SISO_Ant2_5825



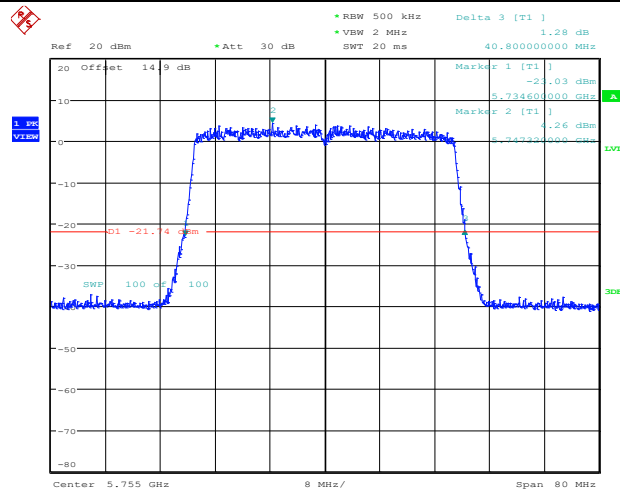
Date: 31.JUL.2023 16:53:39

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Tel: 0086-23-88069965 FAX: 0086-23-88608777

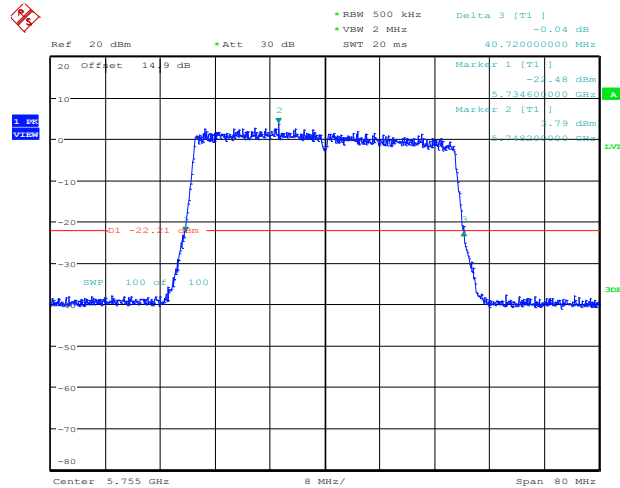
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX40SISO_Ant1_5755



Date: 31.JUL.2023 14:41:16

11AX40SISO_Ant2_5755



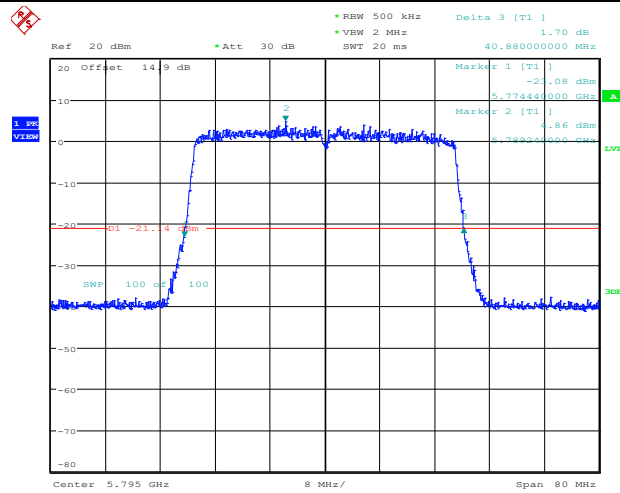
Date: 31.JUL.2023 17:02:23

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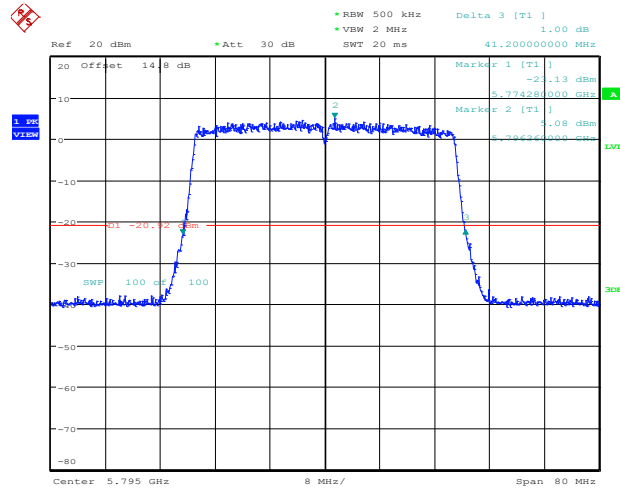
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX40SISO_Ant1_5795



Date: 31.JUL.2023 14:43:00

11AX40SISO_Ant2_5795



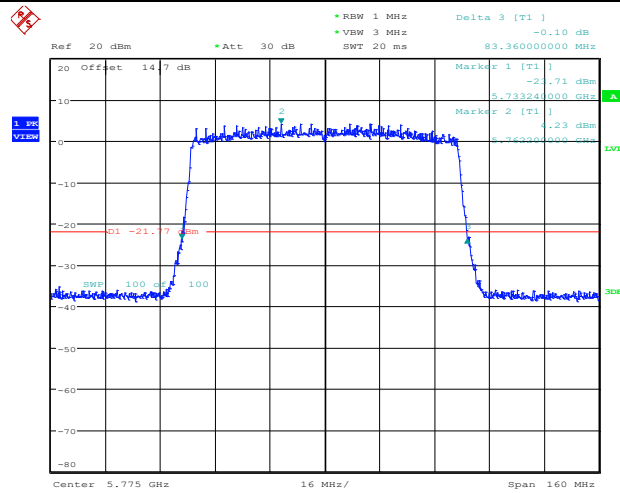
Date: 23.OCT.2023 18:50:23

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Tel: 0086-23-88069965 FAX: 0086-23-88608777

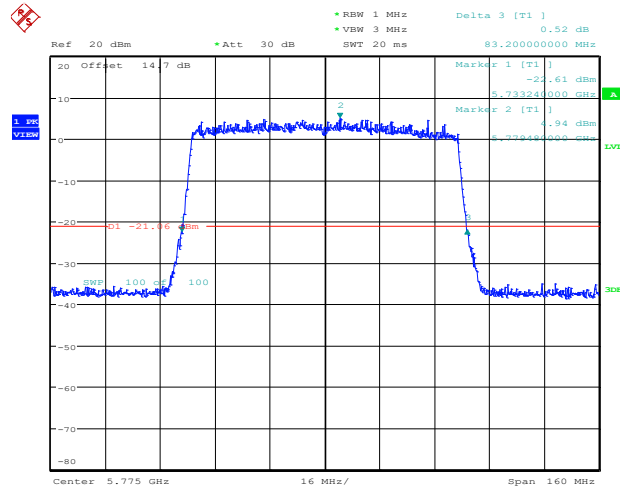
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX80SISO_Ant1_5775



Date: 19.OCT.2023 16:18:19

11AX80SISO_Ant2_5775



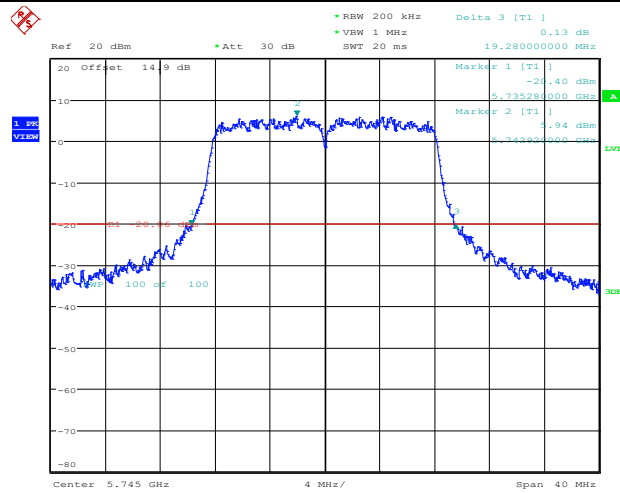
Date: 19.OCT.2023 16:23:59

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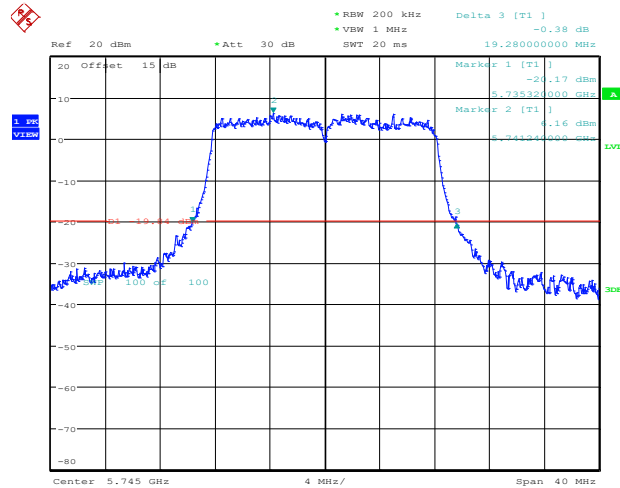
Report No.: I23W00036-WIFI 5.8G RF-FCC

11A-CDD_Ant1_5745



Date: 27.JUL.2023 11:21:13

11A-CDD_Ant2_5745

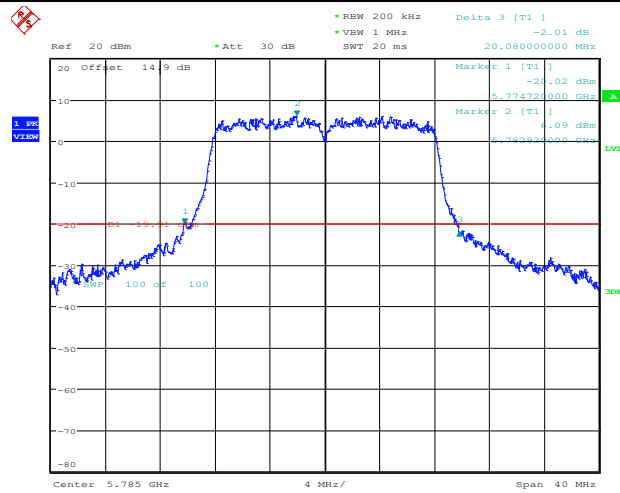


Date: 27.JUL.2023 11:23:21

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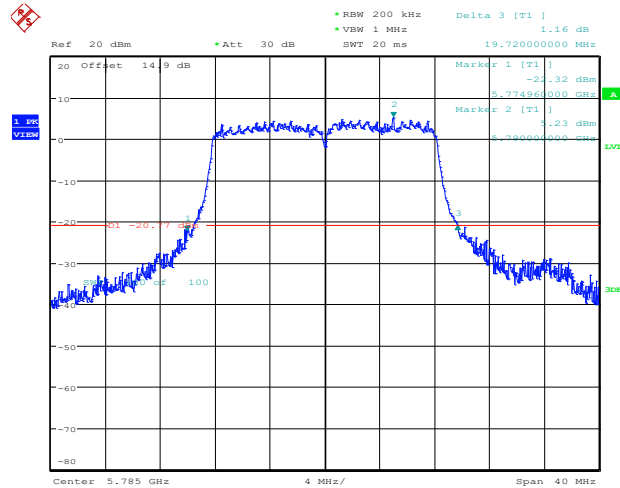
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Tel: 0086-23-88069965 FAX: 0086-23-88608777

11A-CDD_Ant1_5785



Date: 27.JUL.2023 11:49:11

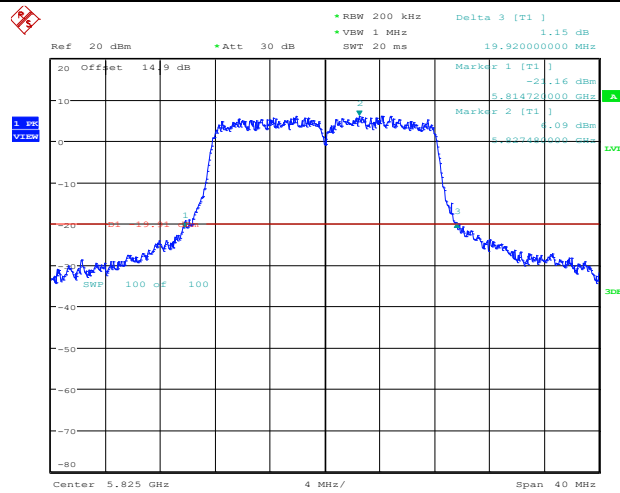
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Date: 27.JUL.2023 11:50:57

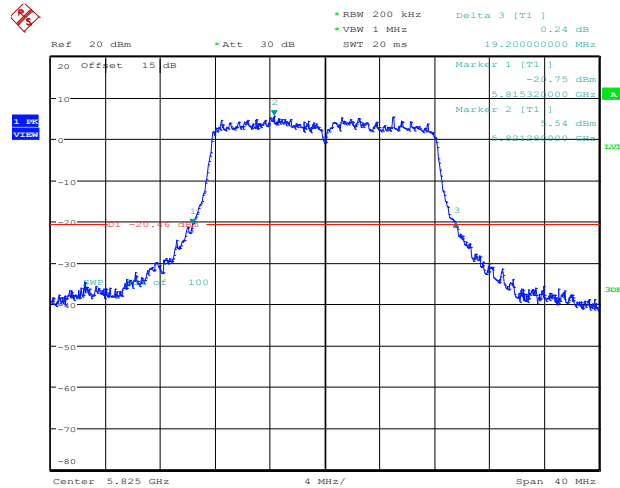
Report No.: I23W00036-WIFI 5.8G RF-FCC

11A-CDD_Ant1_5825



Date: 27.JUL.2023 11:53:26

11A-CDD_Ant2_5825



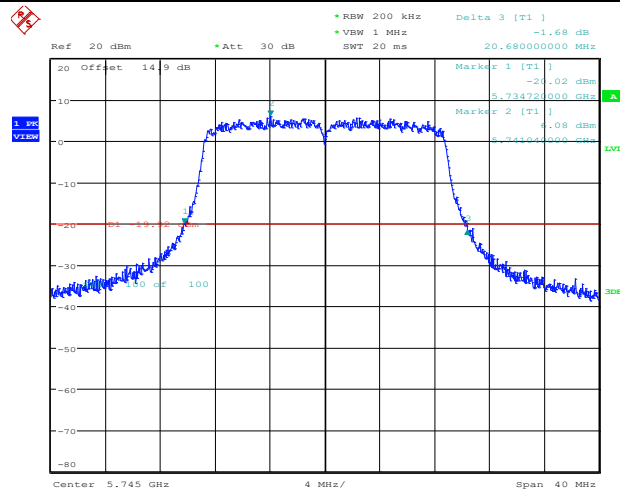
Date: 27.JUL.2023 11:55:32

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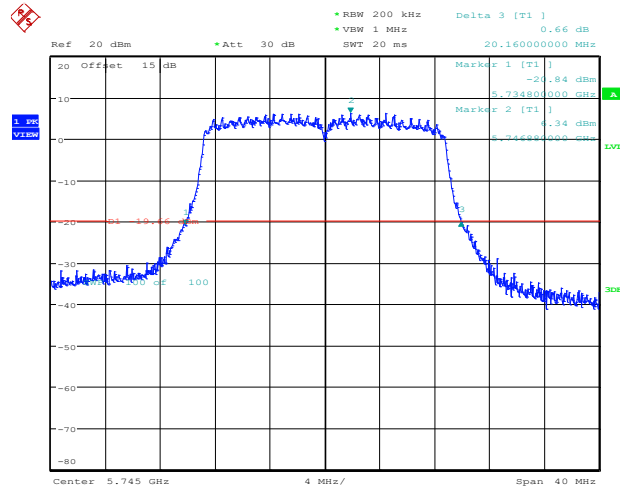
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N20MIMO_Ant1_5745



Date: 27.JUL.2023 13:26:05

11N20MIMO_Ant2_5745



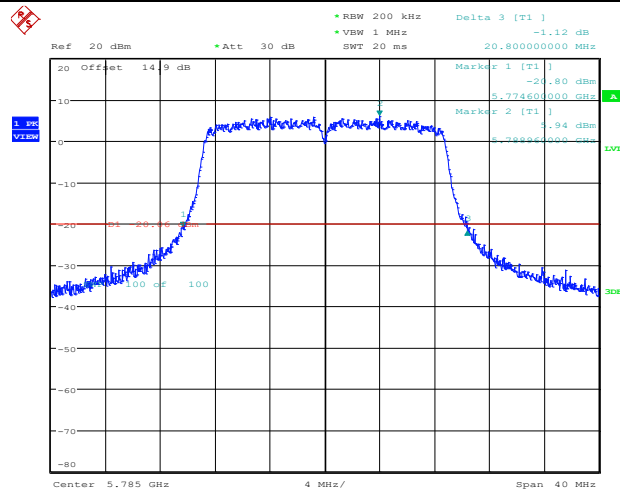
Date: 27.JUL.2023 13:28:10

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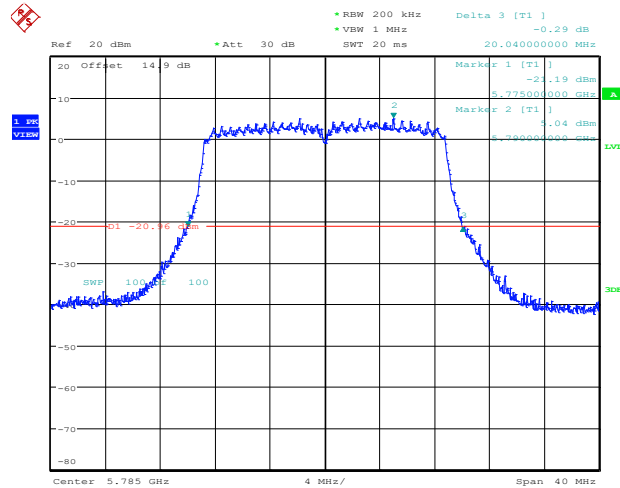
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N20MIMO_Ant1_5785



Date: 27.JUL.2023 13:30:58

11N20MIMO_Ant2_5785



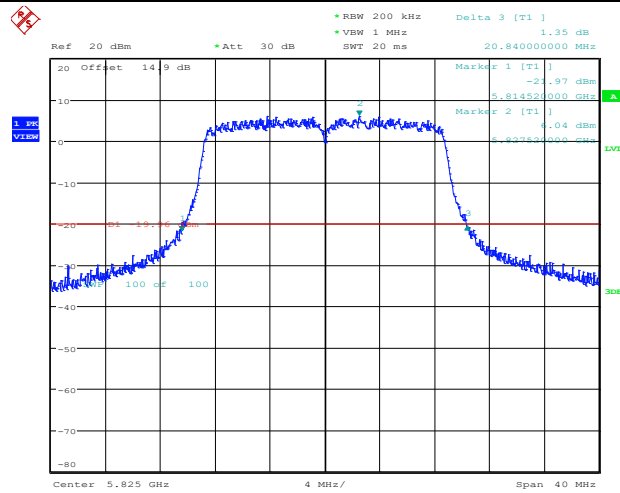
Date: 27.JUL.2023 13:32:39

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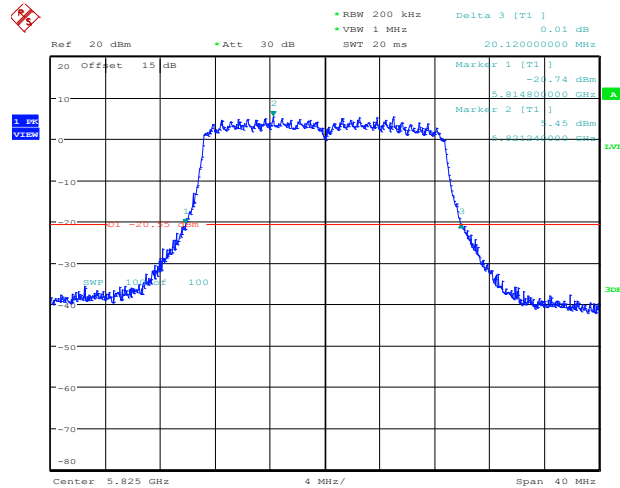
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N20MIMO_Ant1_5825



Date: 27.JUL.2023 13:35:04

11N20MIMO_Ant2_5825



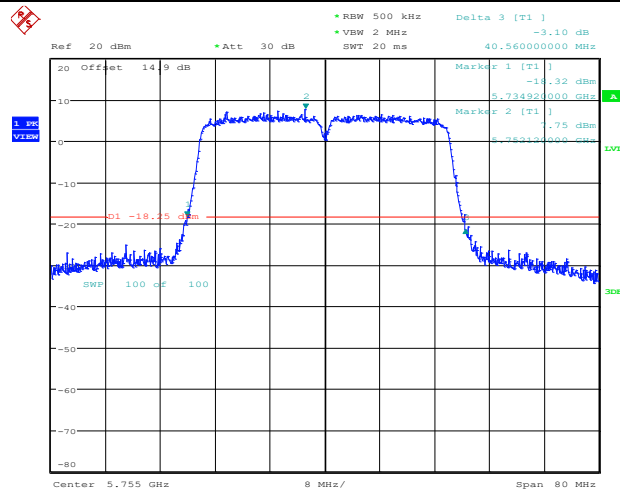
Date: 27.JUL.2023 13:37:09

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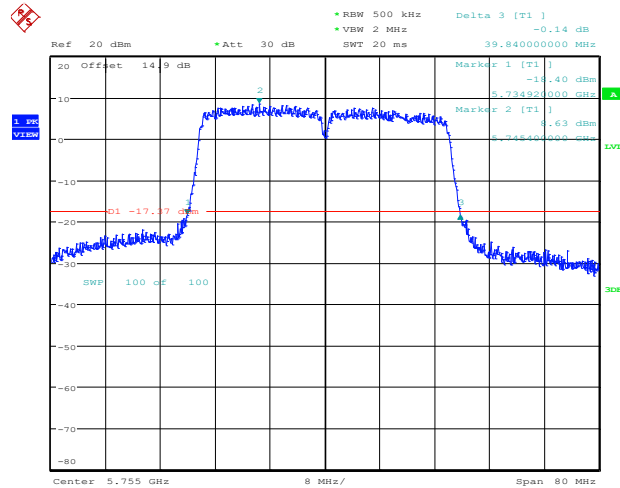
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N40MIMO_Ant1_5755



Date: 27.JUL.2023 13:41:46

11N40MIMO_Ant2_5755



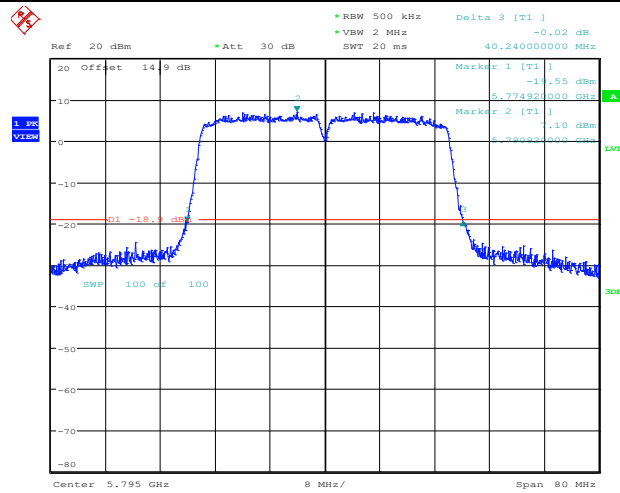
Date: 27.JUL.2023 13:43:48

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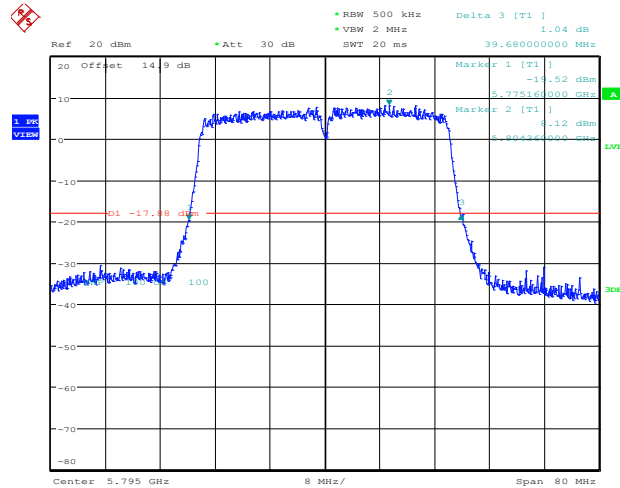
Report No.: I23W00036-WIFI 5.8G RF-FCC

11N40MIMO_Ant1_5795



Date: 27.JUL.2023 13:48:13

11N40MIMO_Ant2_5795



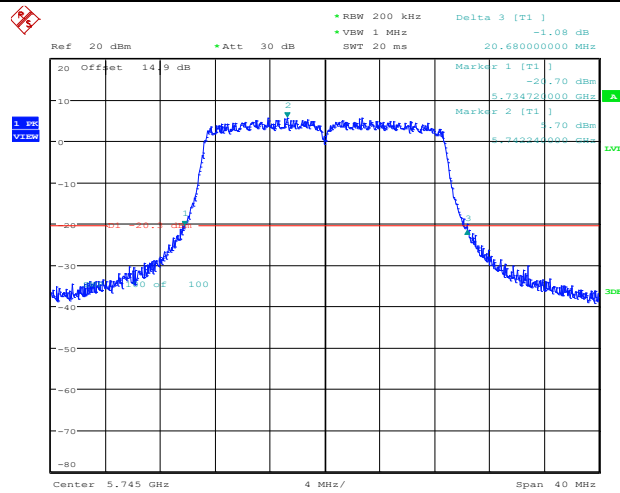
Date: 27.JUL.2023 13:50:13

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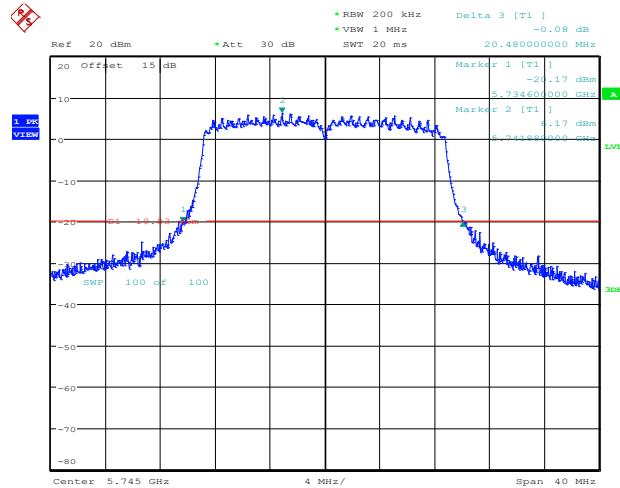
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC20MIMO_Ant1_5745



Date: 27.JUL.2023 14:06:50

11AC20MIMO_Ant2_5745

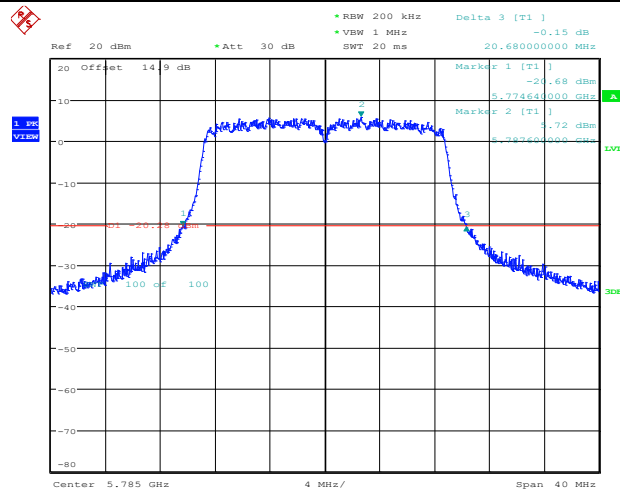


Date: 27.JUL.2023 14:09:00

Chongqing Academy of Information and Communication Technology

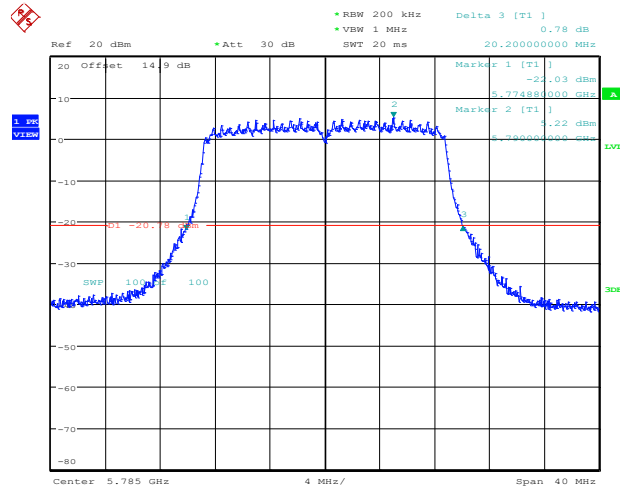
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

11AC20MIMO_Ant1_5785



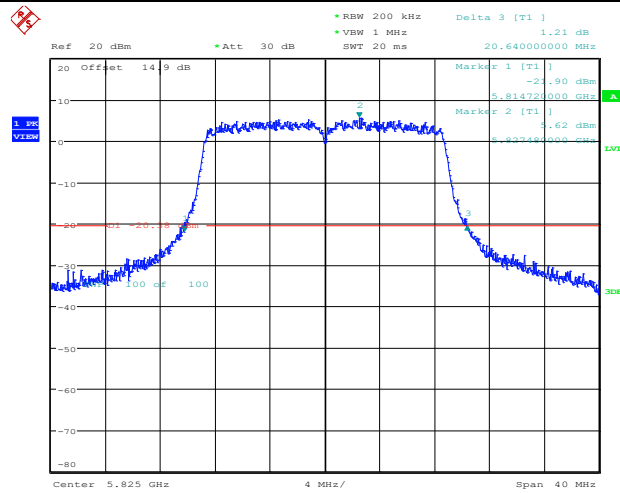
Date: 27.JUL.2023 14:31:29

11AC20MIMO_Ant2_5785



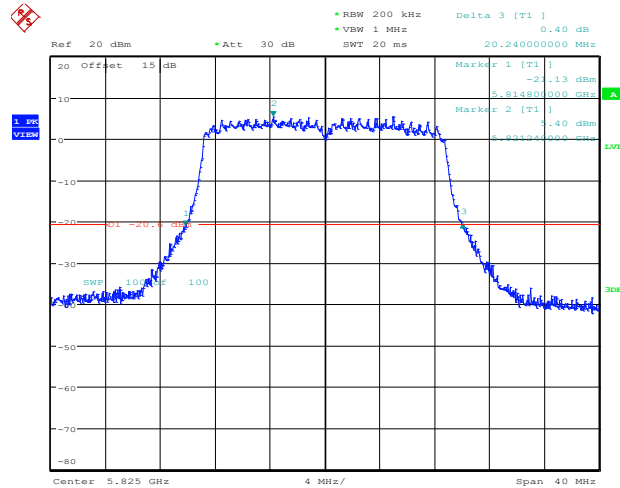
Date: 27.JUL.2023 14:33:09

11AC20MIMO_Ant1_5825



Date: 27.JUL.2023 14:35:28

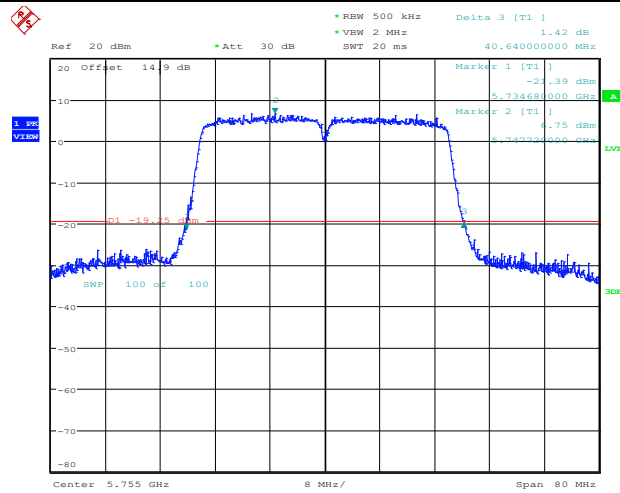
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Date: 27.JUL.2023 14:37:29

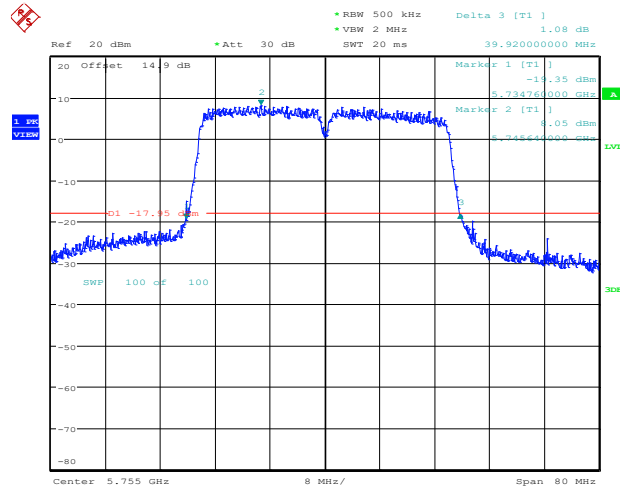
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC40MIMO_Ant1_5755



Date: 27.JUL.2023 15:18:19

11AC40MIMO_Ant2_5755

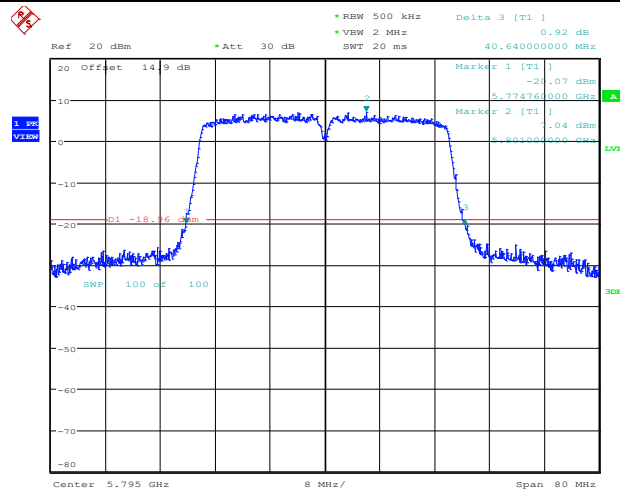


Date: 27.JUL.2023 15:20:20

Chongqing Academy of Information and Communication Technology

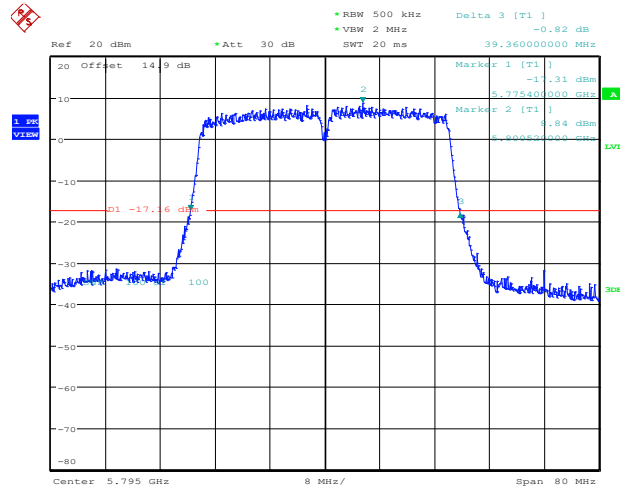
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

11AC40MIMO_Ant1_5795



Date: 27.JUL.2023 15:27:20

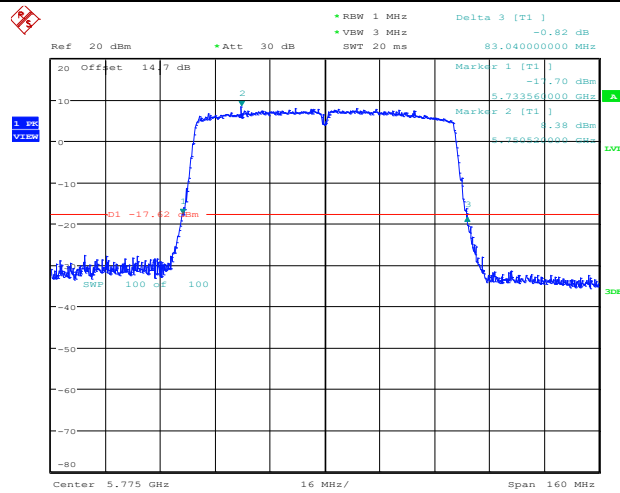
11AC40MIMO_Ant2_5795



Date: 27.JUL.2023 15:29:20

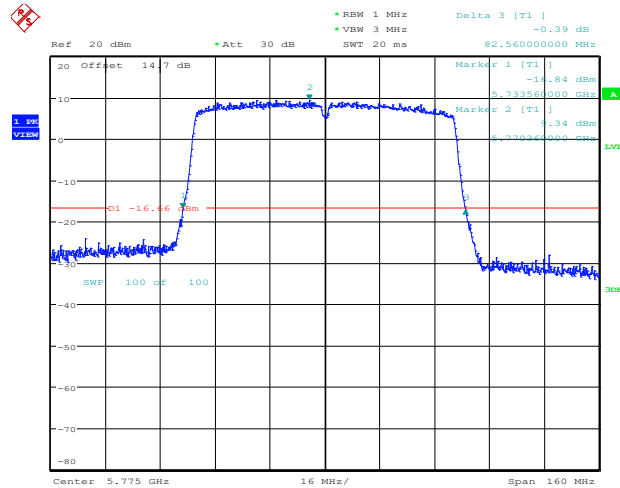
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC80MIMO_Ant1_5775



Date: 19.OCT.2023 16:38:22

11AC80MIMO_Ant2_5775

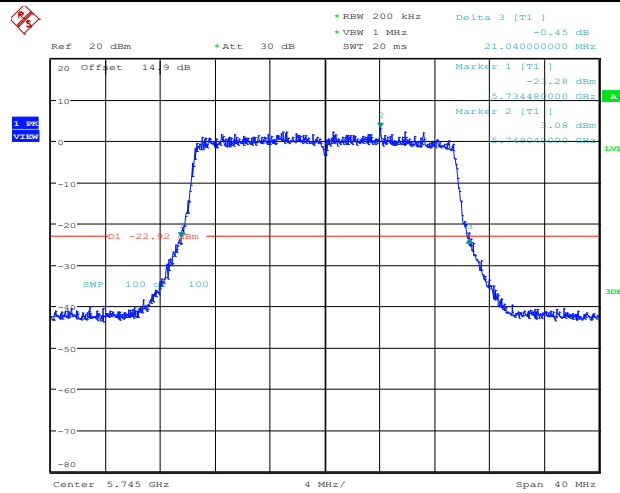


Date: 19.OCT.2023 16:40:54

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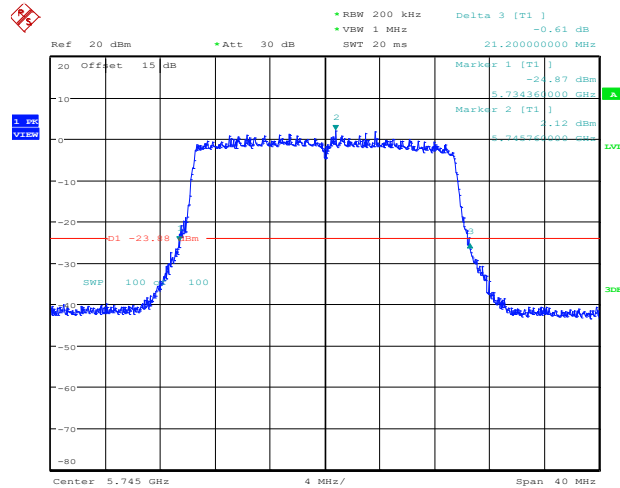
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11AX20MIMO_Ant1_5745



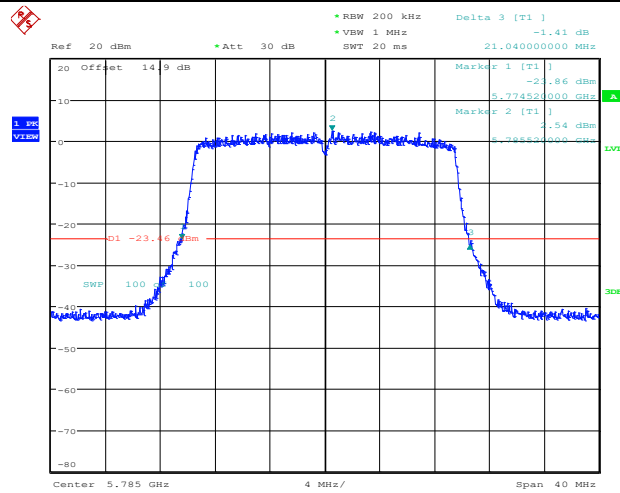
Date: 28.JUL.2023 10:25:13

11AX20MIMO_Ant2_5745



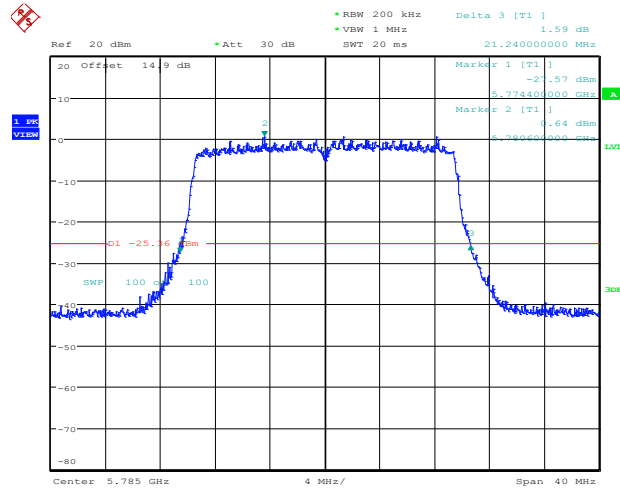
Date: 28.JUL.2023 10:27:21

11AX20MIMO_Ant1_5785



Date: 28.JUL.2023 13:47:39

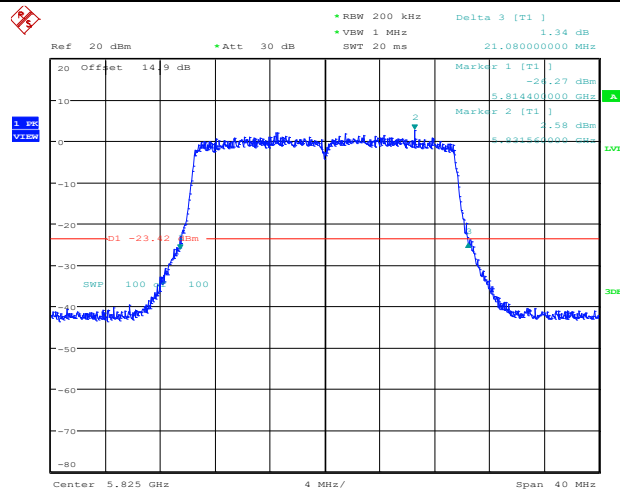
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Date: 28.JUL.2023 13:49:26

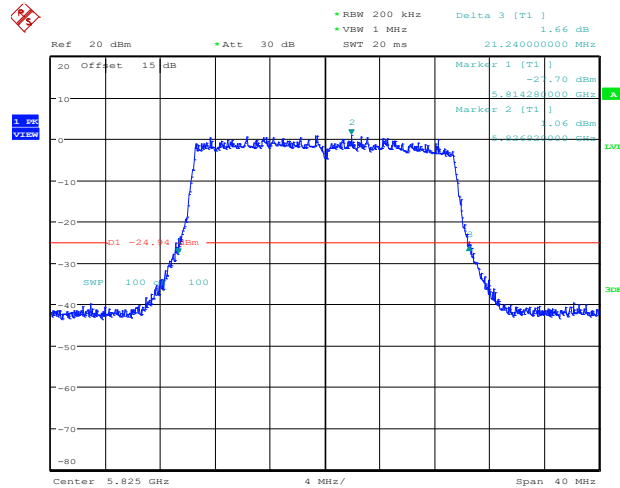
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX20MIMO_Ant1_5825



Date: 28.JUL.2023 13:51:58

11AX20MIMO_Ant2_5825

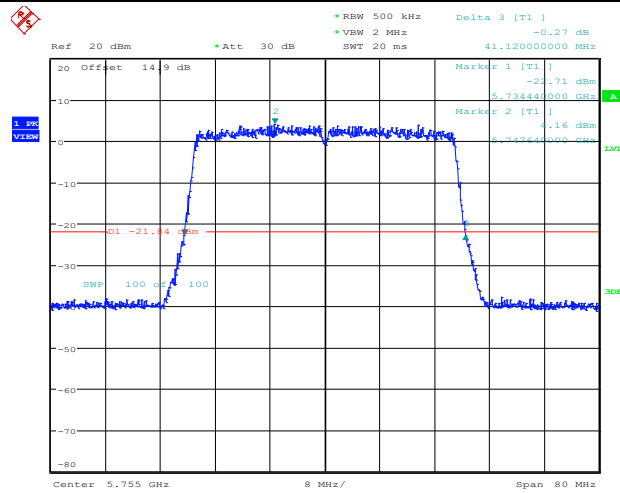


Date: 28.JUL.2023 13:54:09

Chongqing Academy of Information and Communication Technology

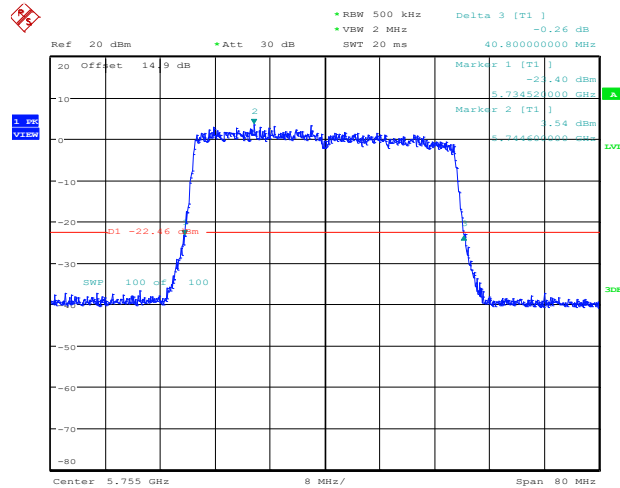
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

11AX40MIMO_Ant1_5755



Date: 28.JUL.2023 14:34:35

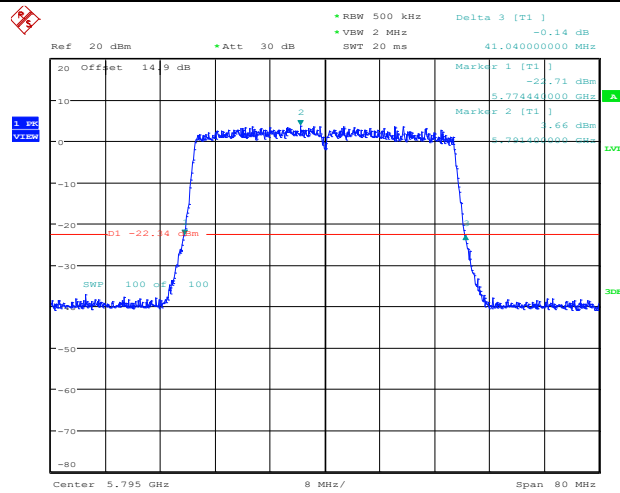
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Date: 28.JUL.2023 14:36:39

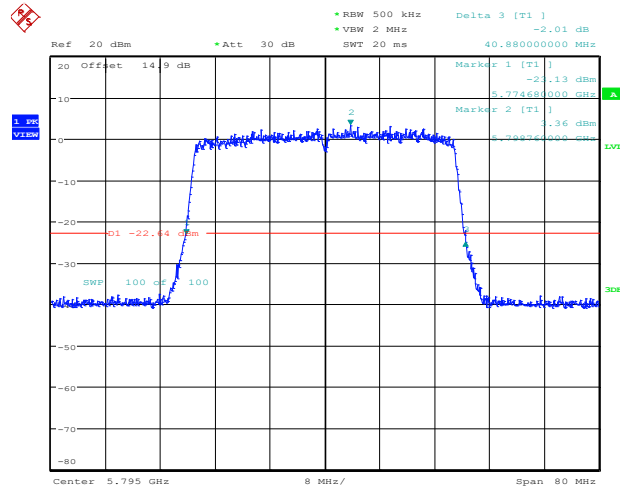
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX40MIMO_Ant1_5795



Date: 28.JUL.2023 14:39:13

11AX40MIMO_Ant2_5795



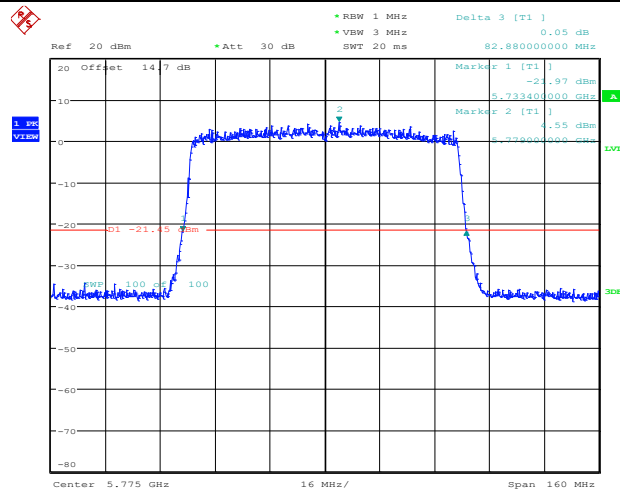
Date: 28.JUL.2023 14:41:16

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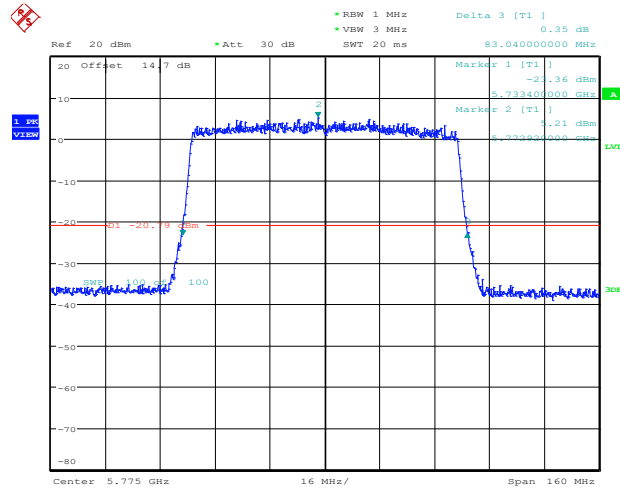
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AX80MIMO_Ant1_5775



Date: 19.OCT.2023 16:43:53

11AX80MIMO_Ant2_5775



Date: 19.OCT.2023 16:46:22

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6.6. 99% Occupied Bandwidth

Specifications:	FCC 47 Part 15.247(e)
DUT Serial Number:	S3
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit(KHz)
FCC 47 Part 15.247(e)	N/A

Measurement Uncertainty:

Measurement Uncertainty	28KHz
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Test Procedure:

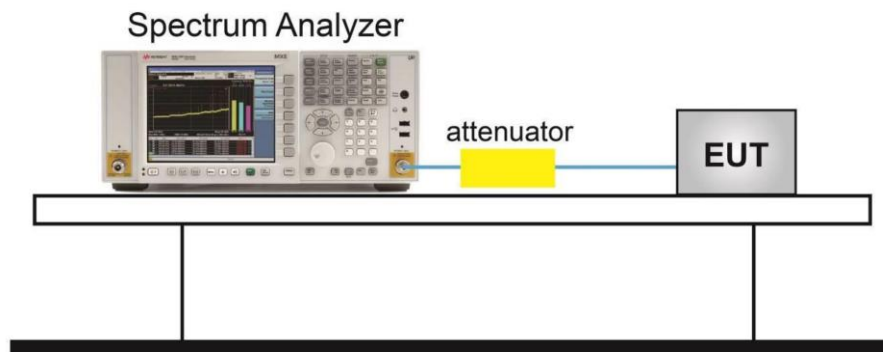
The measurement method is made according to KDB 789033 D

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

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Test Setup:



Measurement Results:

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5745	16.92	5736.4400	5753.3600
	Ant2	5745	16.84	5736.4800	5753.3200
	Ant1	5785	16.92	5776.4400	5793.3600
	Ant2	5785	16.8	5776.5600	5793.3600
	Ant1	5825	16.96	5816.4400	5833.4000
	Ant2	5825	16.8	5816.4800	5833.2800
11N20SISO	Ant1	5745	17.96	5736.0000	5753.9600
	Ant2	5745	17.88	5736.0000	5753.8800
	Ant1	5785	18	5775.9600	5793.9600
	Ant2	5785	17.88	5776.0800	5793.9600
	Ant1	5825	18	5816.0000	5834.0000
	Ant2	5825	17.88	5816.0000	5833.8800
11N40SISO	Ant1	5755	36.4	5736.7600	5773.1600
	Ant2	5755	36.48	5736.6000	5773.0800
	Ant1	5795	36.4	5776.7600	5813.1600
	Ant2	5795	36.32	5776.9200	5813.2400
11AC20SISO	Ant1	5745	17.96	5736.0000	5753.9600
	Ant2	5745	17.88	5736.0000	5753.8800
	Ant1	5785	17.96	5776.0000	5793.9600
	Ant2	5785	17.88	5776.0800	5793.9600
	Ant1	5825	18	5816.0000	5834.0000
	Ant2	5825	17.88	5816.0000	5833.8800
11AC40SISO	Ant1	5755	36.4	5736.7600	5773.1600
	Ant2	5755	36.48	5736.6000	5773.0800
	Ant1	5795	36.48	5776.6800	5813.1600
	Ant2	5795	36.24	5776.9200	5813.1600
11AC80SISO	Ant1	5775	75.68	5737.0800	5812.7600
	Ant2	5775	75.68	5737.0800	5812.7600
11AX20SISO	Ant1	5745	19.08	5735.4400	5754.5200
	Ant2	5745	19.08	5735.4000	5754.4800
	Ant1	5785	19.08	5775.4400	5794.5200

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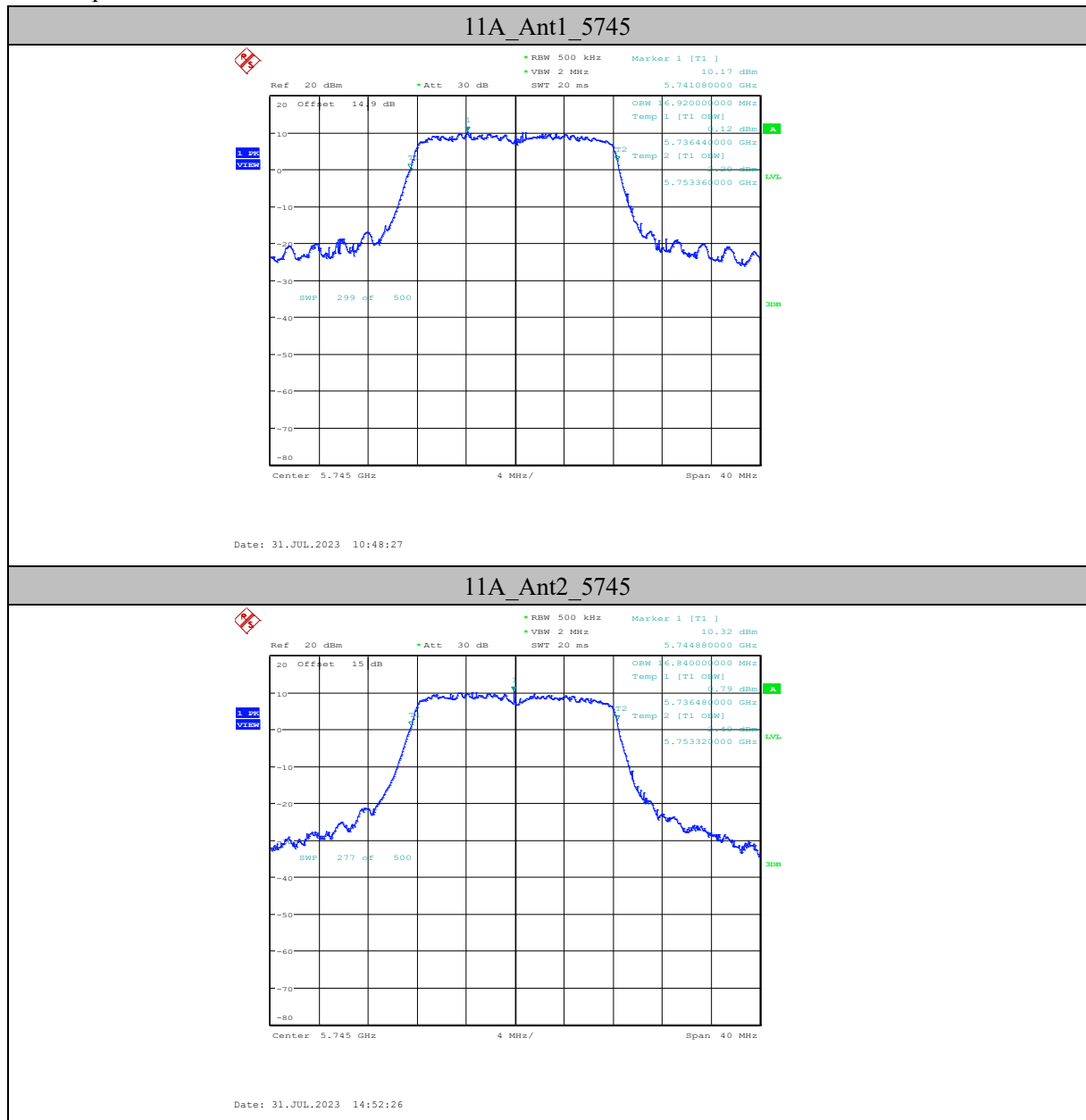
Report No.: I23W00036-WIFI 5.8G RF-FCC

	Ant2	5785	19.08	5775.4800	5794.5600
	Ant1	5825	19.08	5815.4400	5834.5200
	Ant2	5825	19.08	5815.4000	5834.4800
11AX40SISO	Ant1	5755	38.16	5735.8800	5774.0400
	Ant2	5755	38.08	5735.8800	5773.9600
	Ant1	5795	38	5775.9600	5813.9600
	Ant2	5795	38	5775.9600	5813.9600
11AX80SISO	Ant1	5775	77.44	5736.2800	5813.7200
	Ant2	5775	77.44	5736.1200	5813.5600
11A-CDD	Ant1	5745	16.84	5736.5200	5753.3600
	Ant2	5745	16.68	5736.6000	5753.2800
	Ant1	5785	16.84	5776.5200	5793.3600
	Ant2	5785	16.68	5776.6800	5793.3600
	Ant1	5825	16.88	5816.4800	5833.3600
	Ant2	5825	16.68	5816.6000	5833.2800
11N20MIMO	Ant1	5745	17.88	5736.0400	5753.9200
	Ant2	5745	17.76	5736.0800	5753.8400
	Ant1	5785	17.96	5776.0000	5793.9600
	Ant2	5785	17.8	5776.1200	5793.9200
	Ant1	5825	17.96	5816.0000	5833.9600
	Ant2	5825	17.76	5816.0400	5833.8000
11N40MIMO	Ant1	5755	36.4	5736.7600	5773.1600
	Ant2	5755	36.4	5736.6800	5773.0800
	Ant1	5795	36.4	5776.7600	5813.1600
	Ant2	5795	36.24	5776.9200	5813.1600
11AC20MIMO	Ant1	5745	17.92	5736.0000	5753.9200
	Ant2	5745	17.76	5736.0800	5753.8400
	Ant1	5785	17.96	5776.0000	5793.9600
	Ant2	5785	17.8	5776.1200	5793.9200
	Ant1	5825	17.96	5816.0000	5833.9600
	Ant2	5825	17.72	5816.0800	5833.8000
11AC40MIMO	Ant1	5755	36.4	5736.7600	5773.1600
	Ant2	5755	36.4	5736.6800	5773.0800
	Ant1	5795	36.4	5776.7600	5813.1600
	Ant2	5795	36.24	5776.9200	5813.1600
11AC80MIMO	Ant1	5775	75.68	5737.0800	5812.7600
	Ant2	5775	75.68	5737.0800	5812.7600
11AX20MIMO	Ant1	5745	19.08	5735.4400	5754.5200
	Ant2	5745	19.08	5735.4000	5754.4800
	Ant1	5785	19.08	5775.4400	5794.5200
	Ant2	5785	19.16	5775.4400	5794.6000
	Ant1	5825	19.12	5815.4400	5834.5600
	Ant2	5825	19.12	5815.4000	5834.5200
11AX40MIMO	Ant1	5755	38.08	5735.9600	5774.0400
	Ant2	5755	38.08	5735.8800	5773.9600
	Ant1	5795	38.08	5775.9600	5814.0400
	Ant2	5795	38	5776.0400	5814.0400
11AX80MIMO	Ant1	5775	77.6	5736.1200	5813.7200
	Ant2	5775	77.76	5735.9600	5813.7200

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Test Graphs



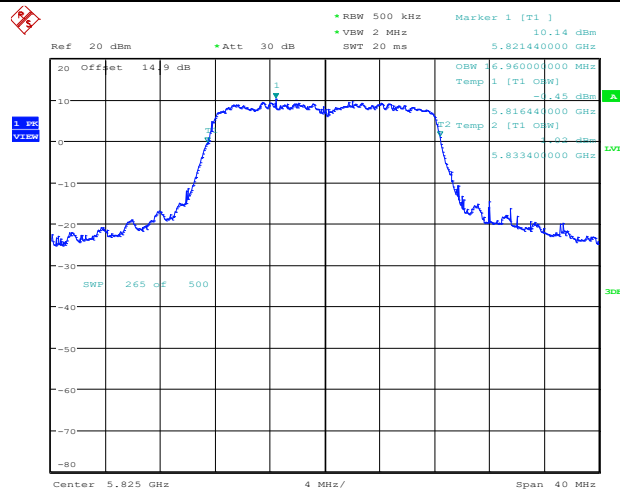
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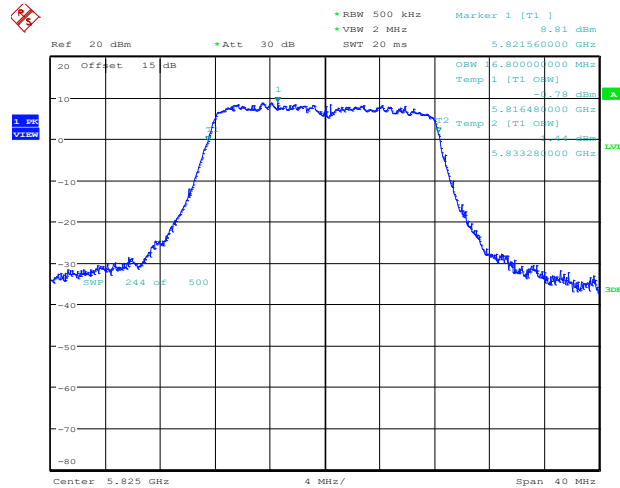
Report No.: I23W00036-WIFI 5.8G RF-FCC

11A_Ant1_5825



Date: 31.JUL.2023 10:51:49

11A_Ant2_5825



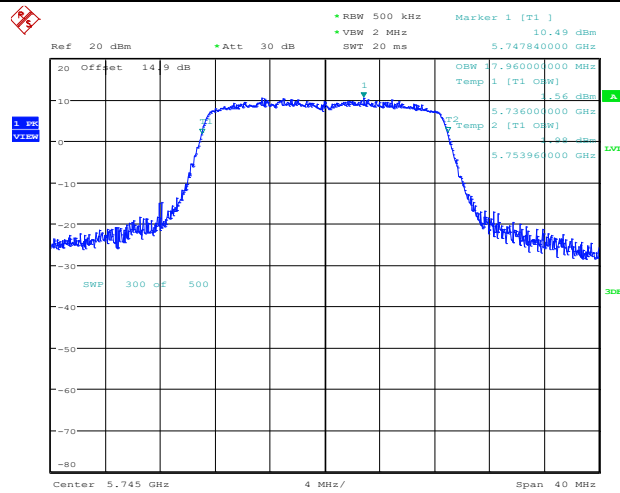
Date: 31.JUL.2023 14:59:22

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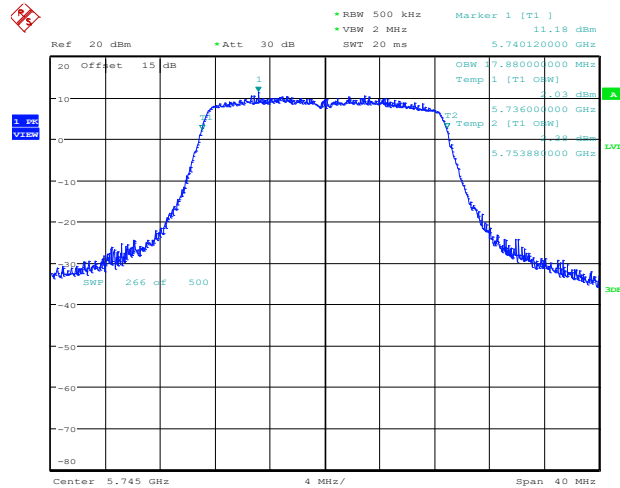
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11N20SISO_Ant1_5745



Date: 31.JUL.2023 10:53:51

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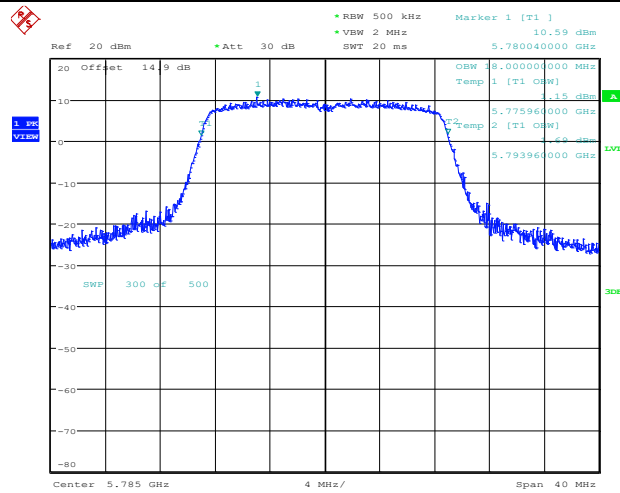
Date: 31.JUL.2023 15:46:45

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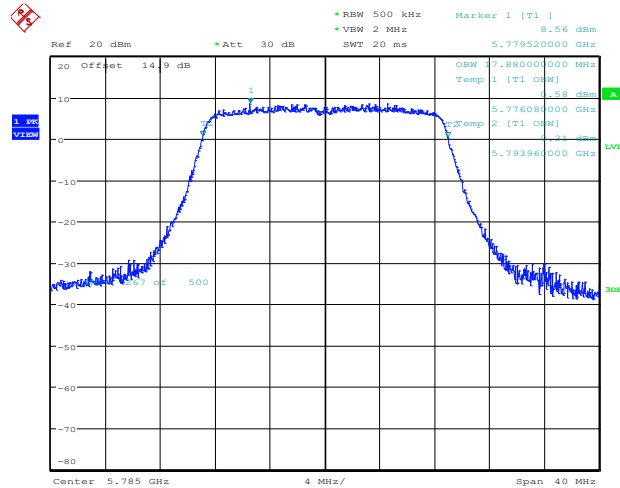
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11N20SISO_Ant1_5785



Date: 31.JUL.2023 10:55:35

11N20SISO_Ant2_5785



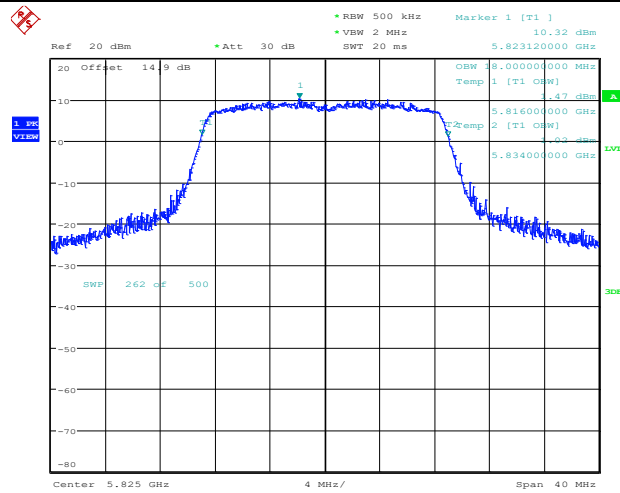
Date: 31.JUL.2023 15:48:31

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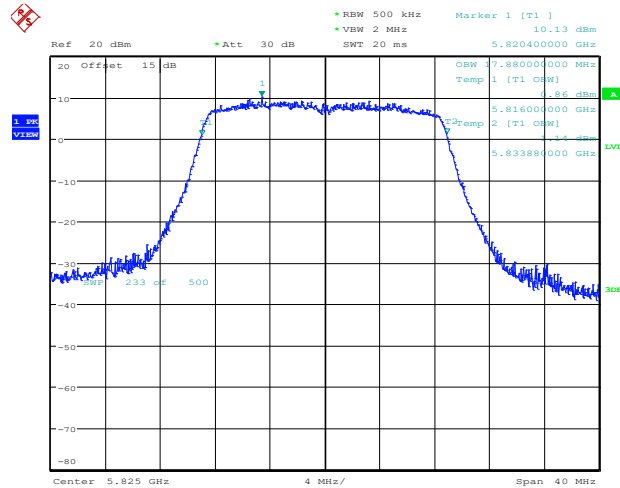
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11N20SISO_Ant1_5825



Date: 31.JUL.2023 10:57:14

11N20SISO_Ant2_5825



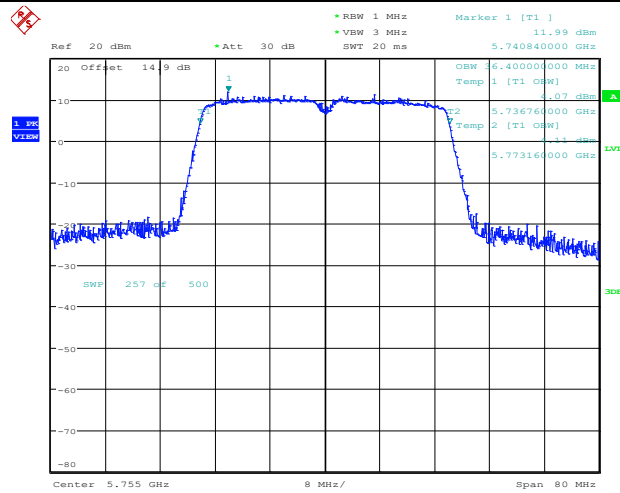
Date: 31.JUL.2023 16:02:39

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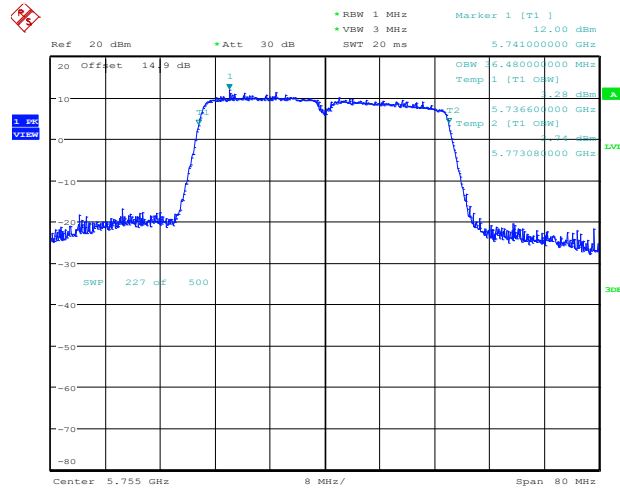
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Date: 31.JUL.2023 10:59:00

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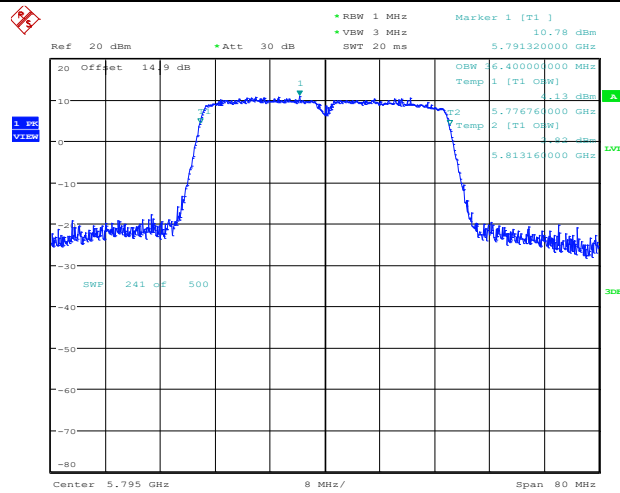
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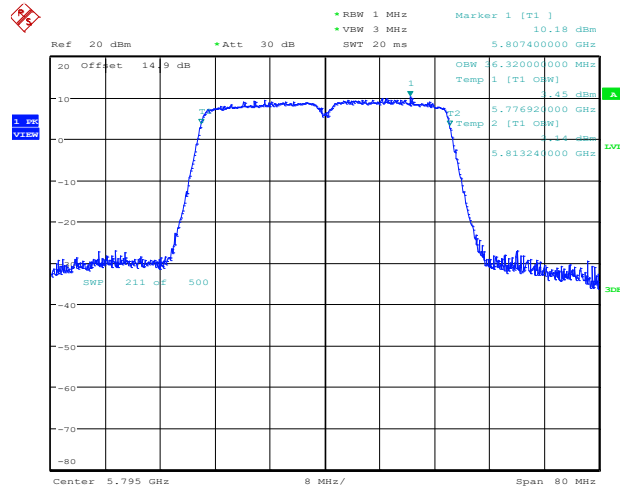
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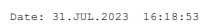


Date: 31.JUL.2023 16:16:50

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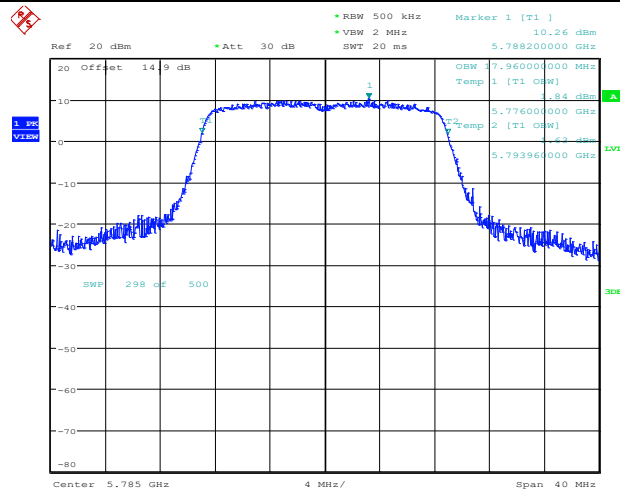
11AC20SISO_Ant1_5745



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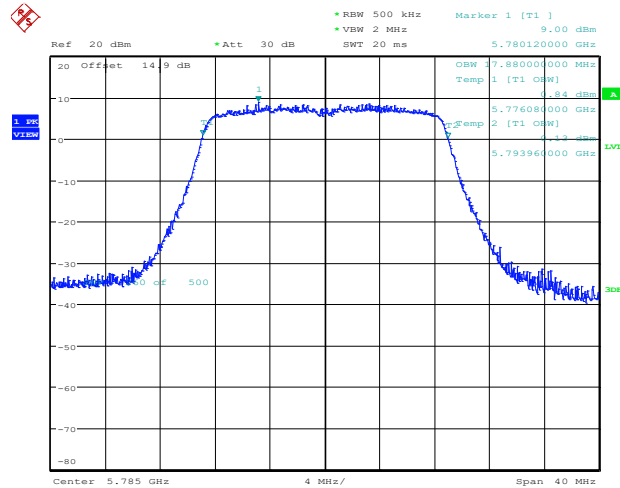
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11AC20SISO_Ant1_5785



Date: 31.JUL.2023 11:06:54

11AC20SISO_Ant2_5785



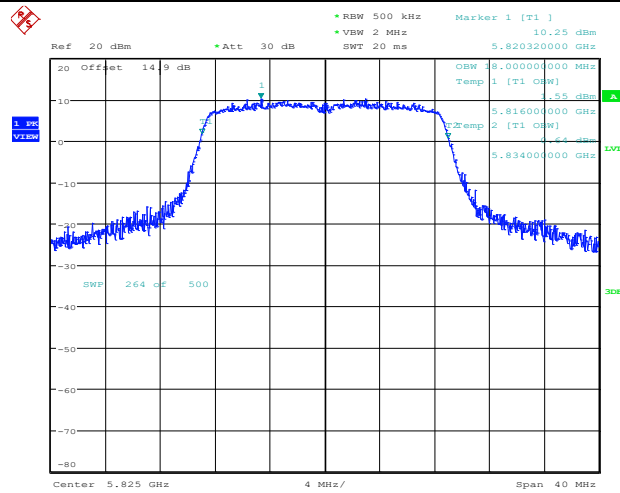
Date: 31.JUL.2023 16:21:18

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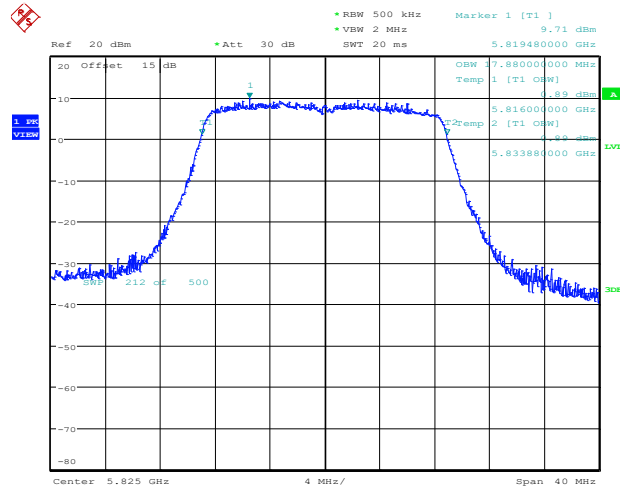
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11AC20SISO_Ant1_5825



Date: 31.JUL.2023 11:08:32

11AC20SISO_Ant2_5825



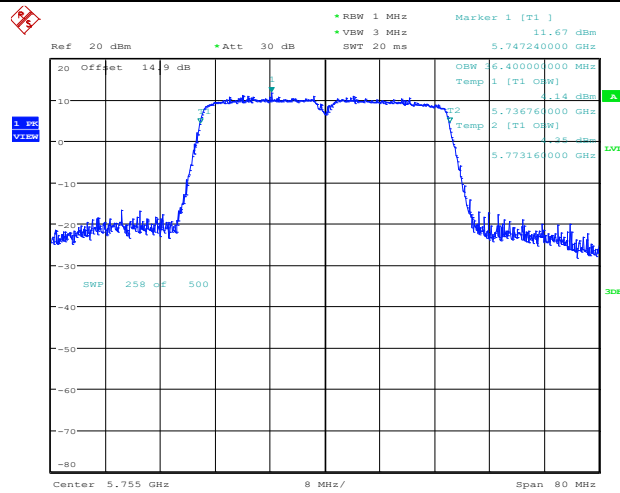
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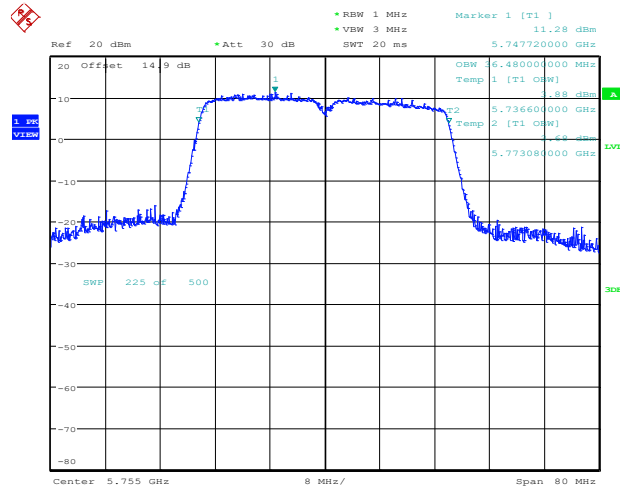
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11AC40SISO_Ant1_5755



Date: 31.JUL.2023 11:10:54

11AC40SISO_Ant2_5755



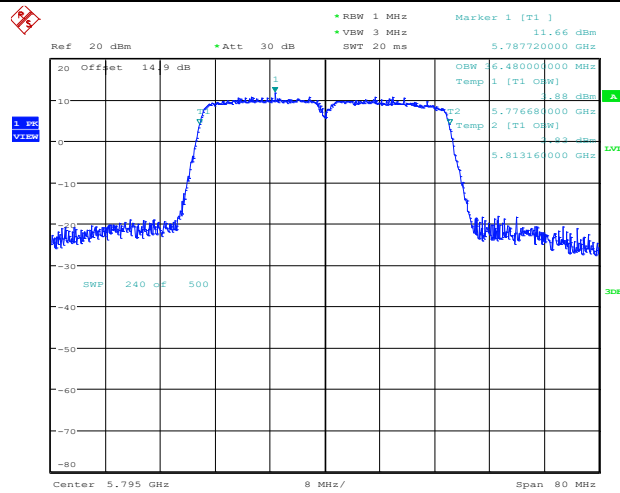
Date: 31.JUL.2023 16:25:12

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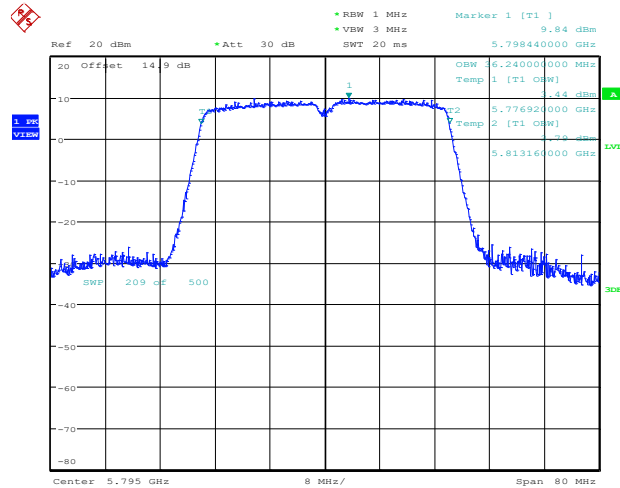
Report No.: I23W00036-WIFI 5.8G RF-FCC

11AC40SISO_Ant1_5795



Date: 31.JUL.2023 11:14:23

11AC40SISO_Ant2_5795



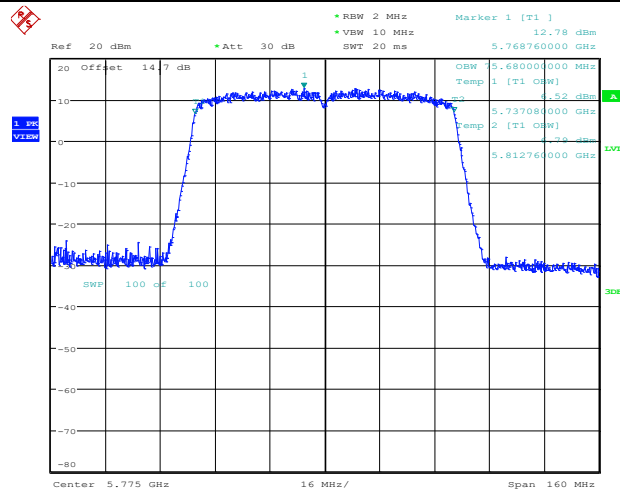
Date: 31.JUL.2023 16:30:18

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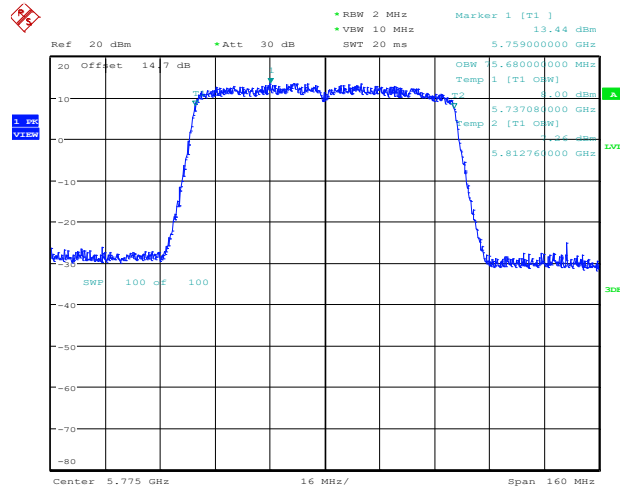
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Date: 19.OCT.2023 16:15:40

11AC80SISO_Ant2_5775



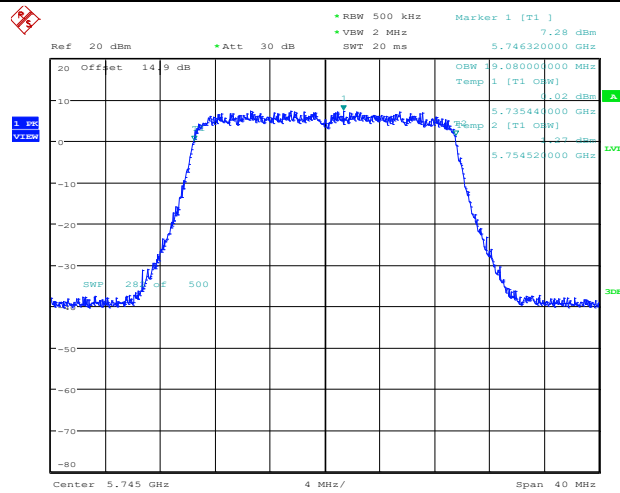
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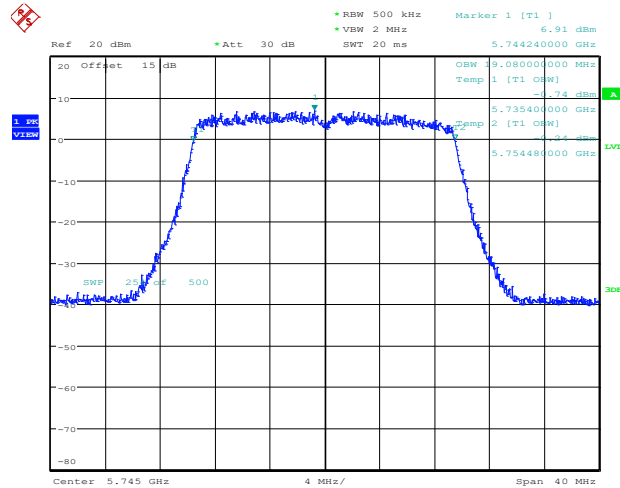
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11AX20SISO_Ant1_5745



Date: 31.JUL.2023 13:37:37

11AX20SISO_Ant2_5745



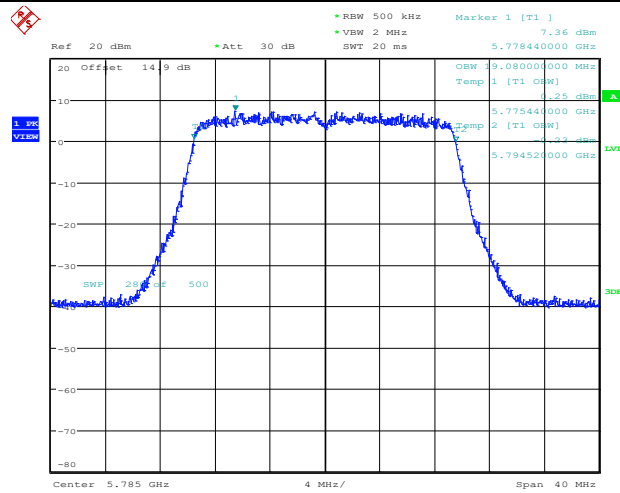
Date: 31.JUL.2023 16:50:41

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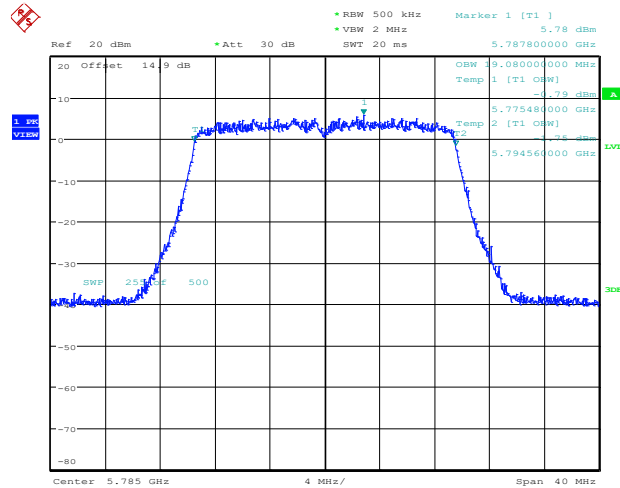
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11AX20SISO_Ant1_5785



Date: 31.JUL.2023 13:39:38

11AX20SISO_Ant2_5785



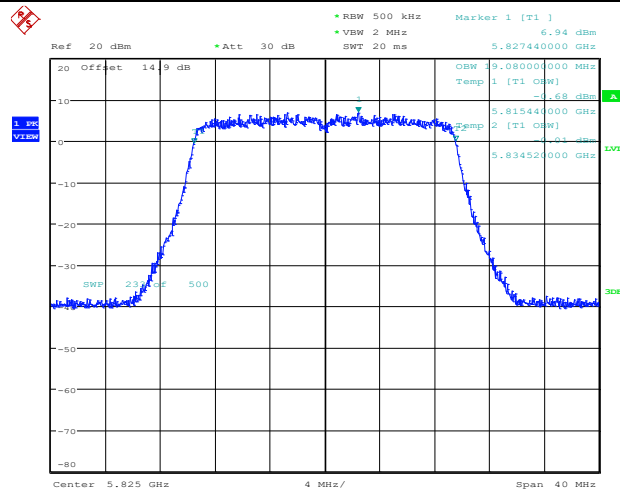
Date: 31.JUL.2023 16:52:25

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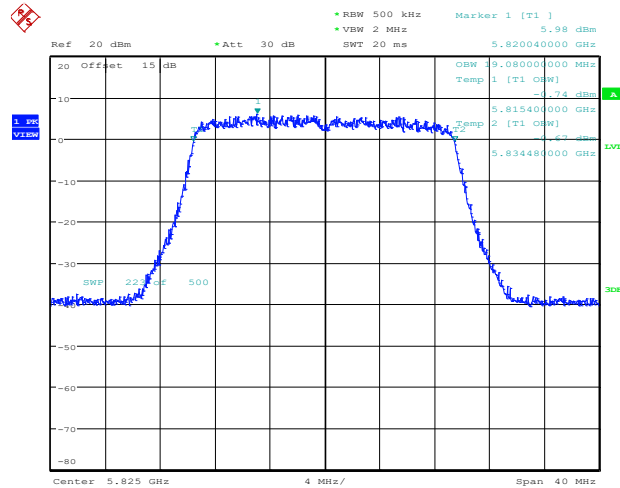
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Date: 31.JUL.2023 14:39:45

11AX20SISO_Ant2_5825



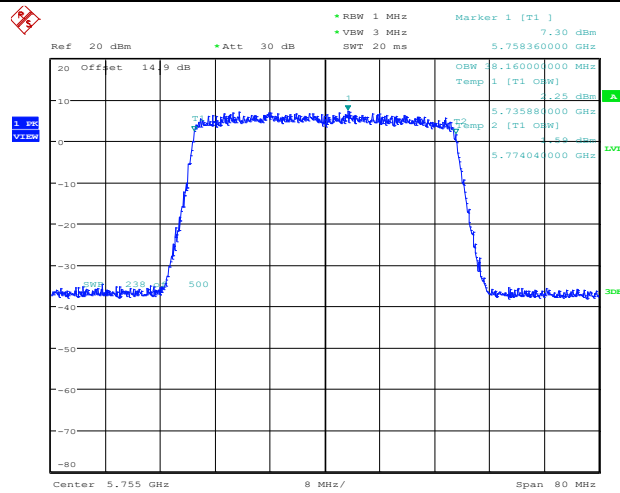
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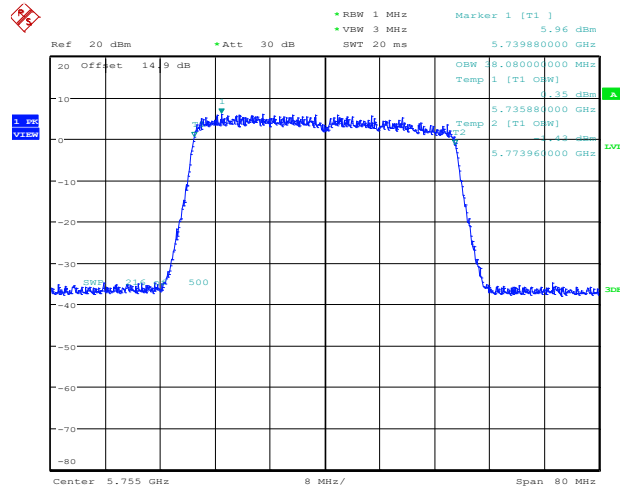
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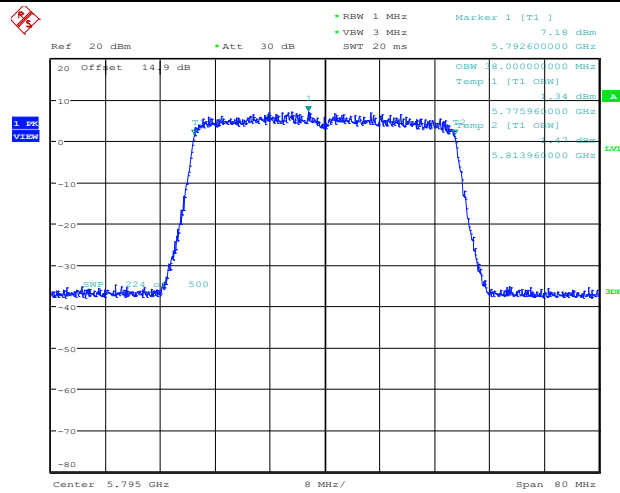
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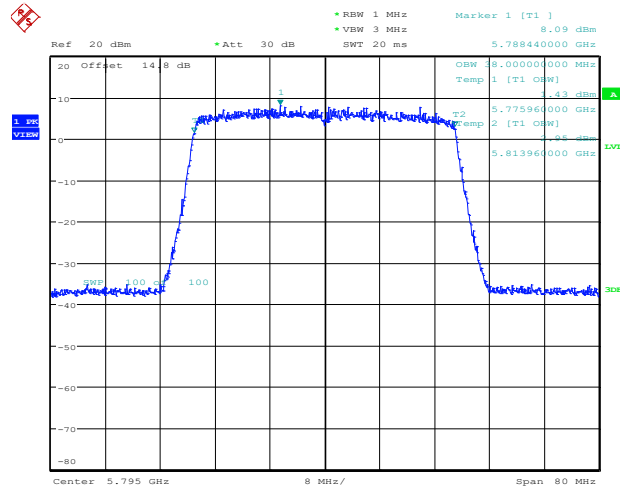
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Date: 31.JUL.2023 14:43:28

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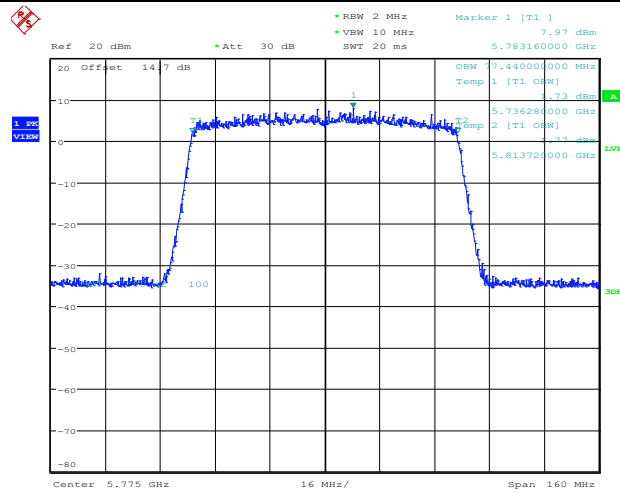
Date: 23.OCT.2023 18:51:14

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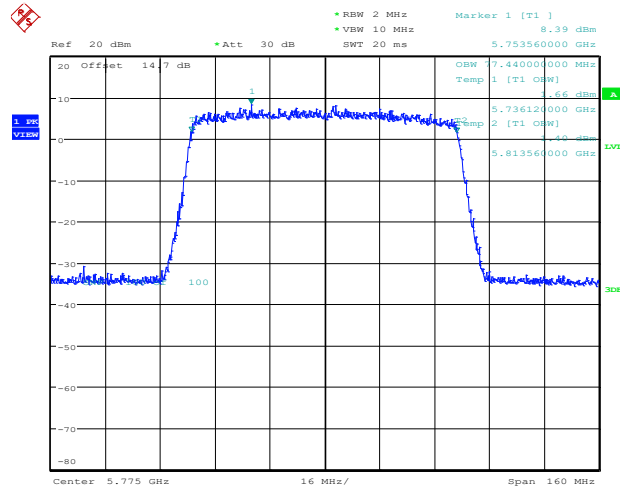
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11AX80SISO_Ant2_5775



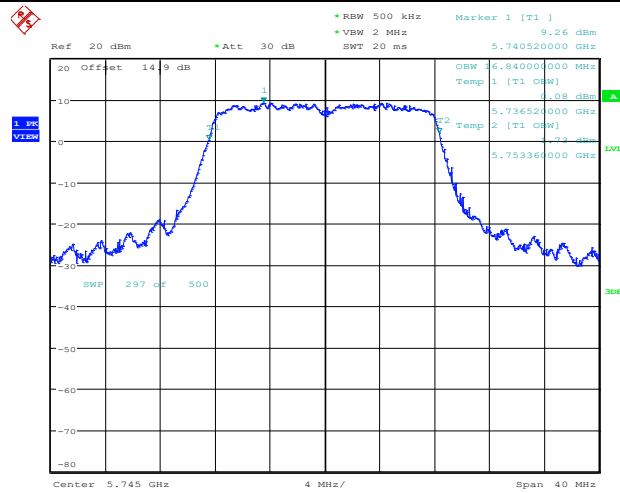
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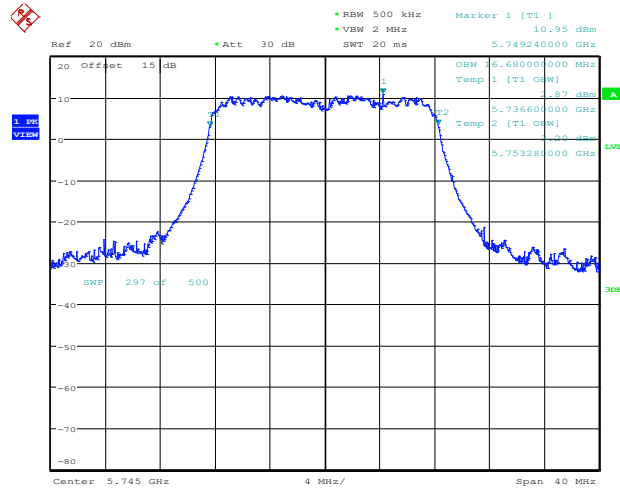
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11A-CDD_Ant1_5745



Date: 27.JUL.2023 11:21:40

11A-CDD_Ant2_5745



Date: 27.JUL.2023 11:23:47

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11A-CDD_Ant1_5785

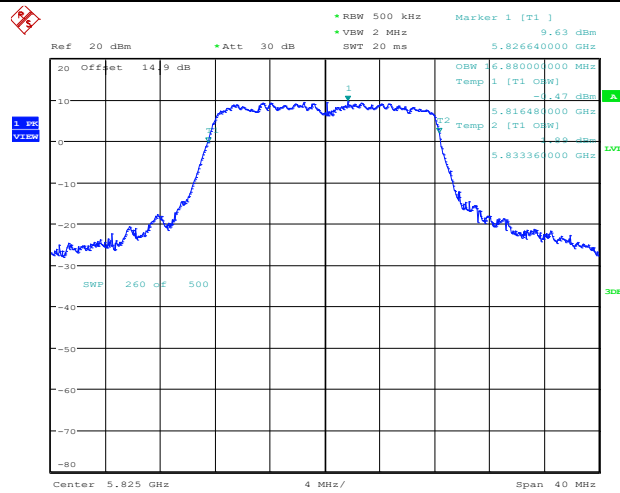


Date: 27.JUL.2023 11:51:24

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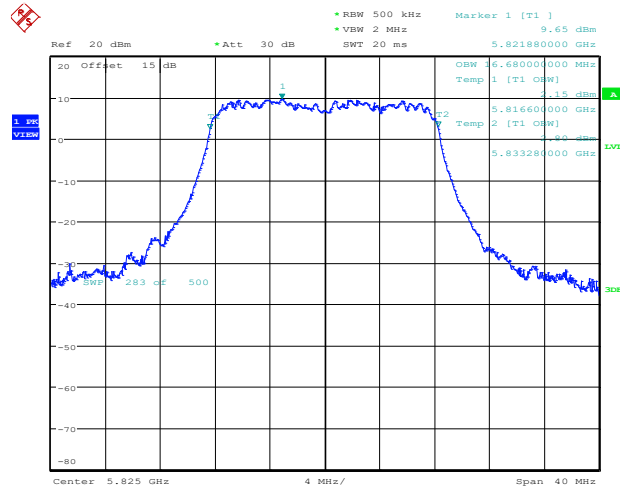
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11A-CDD_Ant1_5825



Date: 27.JUL.2023 11:53:53

11A-CDD_Ant2_5825



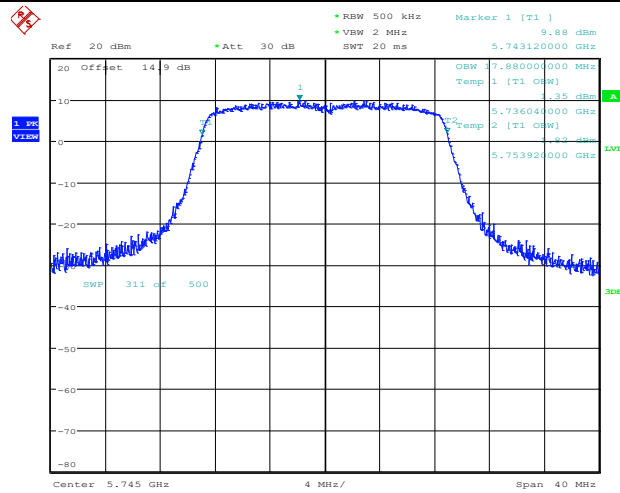
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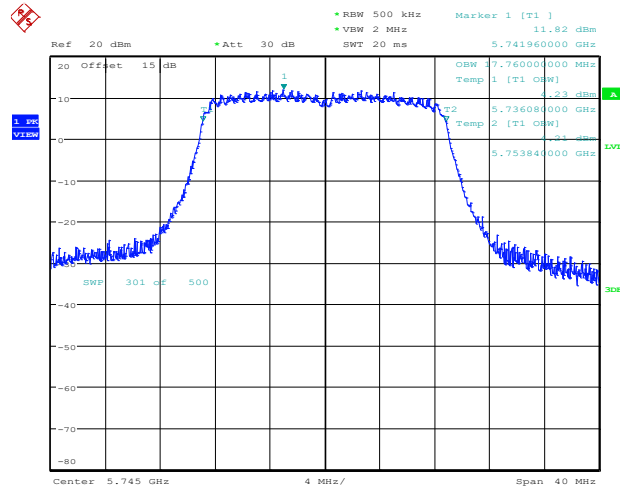
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11N20MIMO_Ant1_5745



Date: 27.JUL.2023 13:26:32

11N20MIMO_Ant2_5745

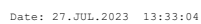


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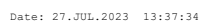
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11N20MIMO_Ant1_5785



11N20MIMO_Ant1_5825

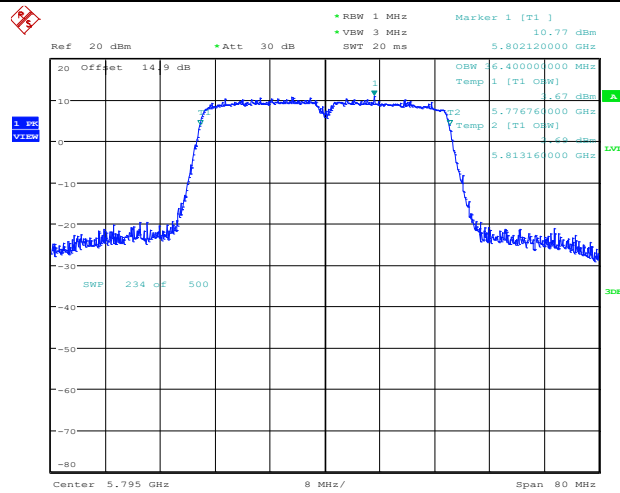


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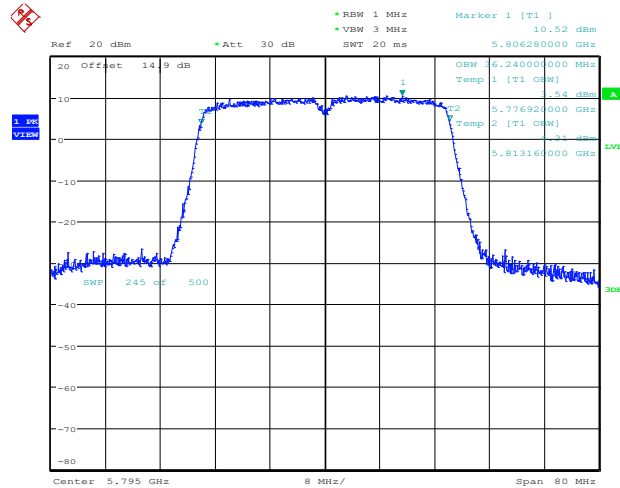
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Date: 27.JUL.2023 13:48:40

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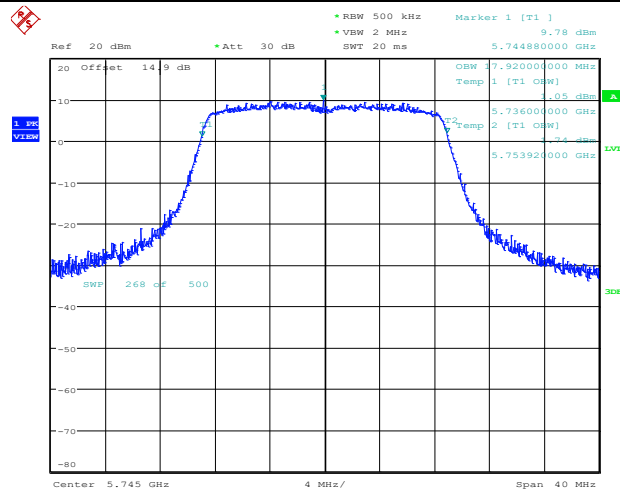
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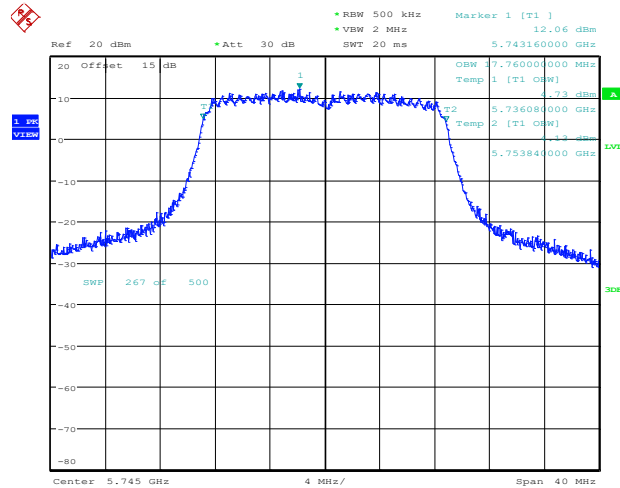
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Date: 27.JUL.2023 14:07:18

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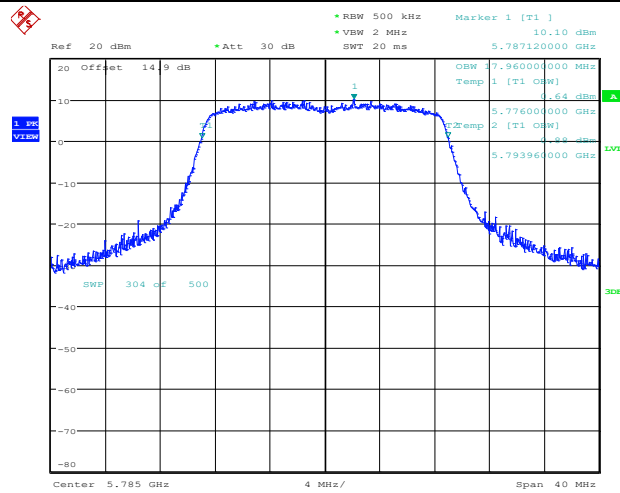
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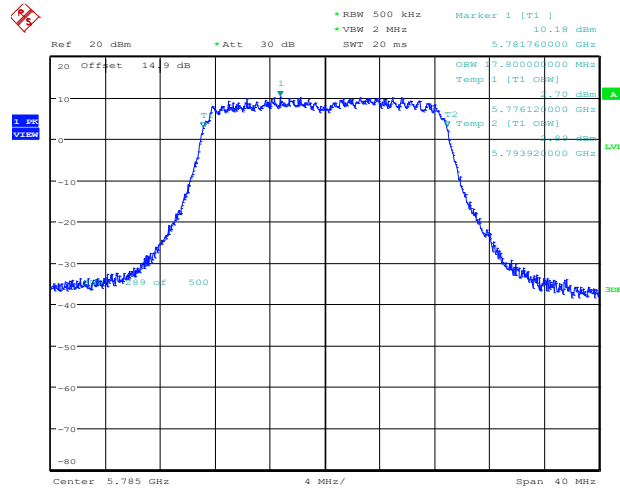
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Date: 27.JUL.2023 14:31:55

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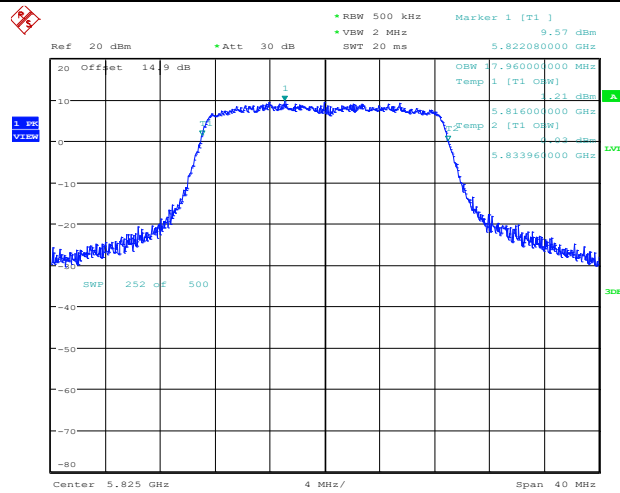
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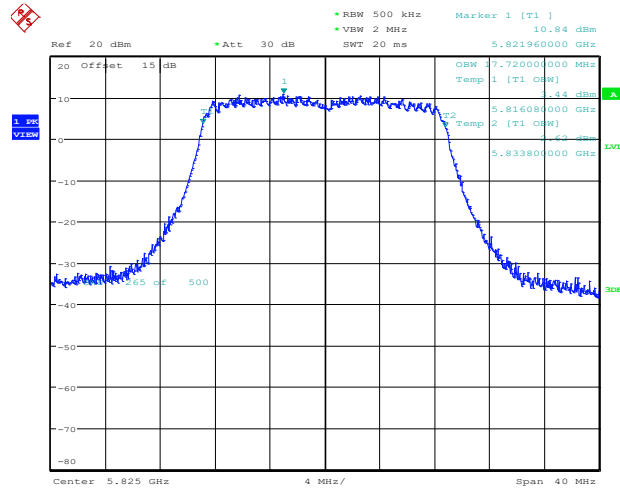
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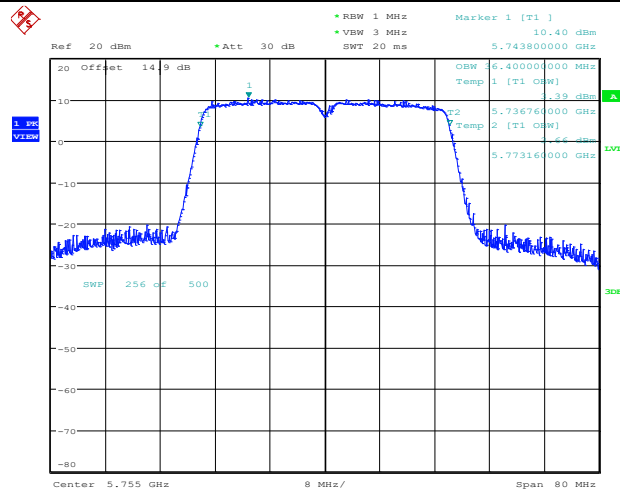
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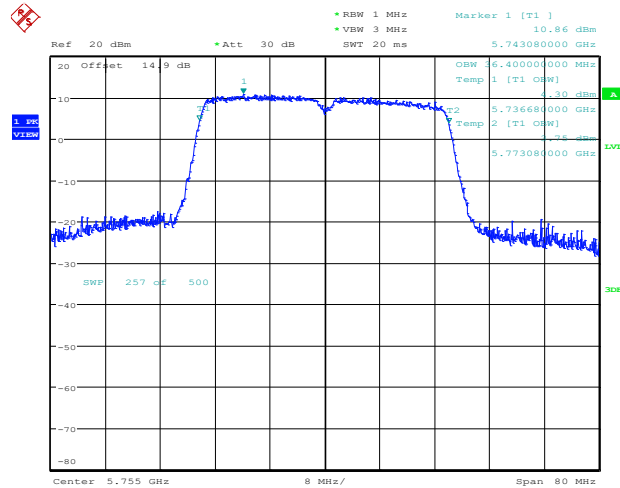
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Date: 27.JUL.2023 15:18:45

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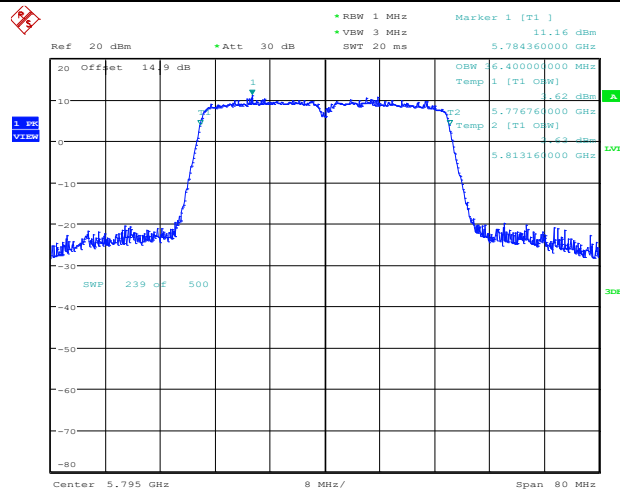
Date: 27.JUL.2023 15:20:45

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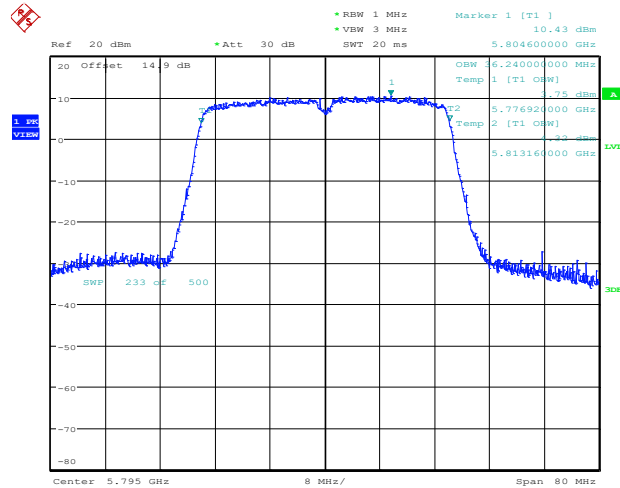
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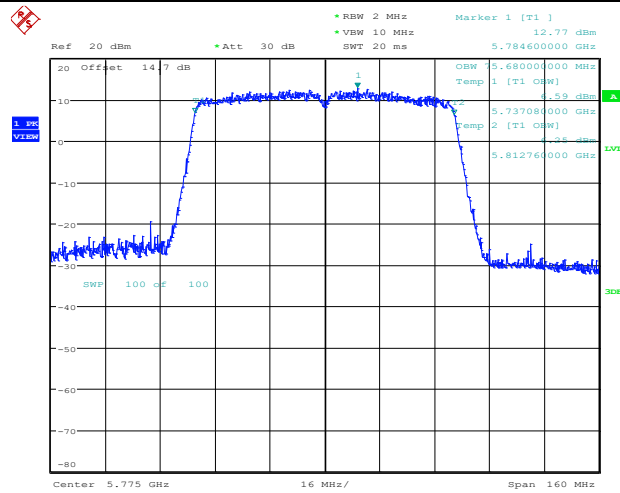
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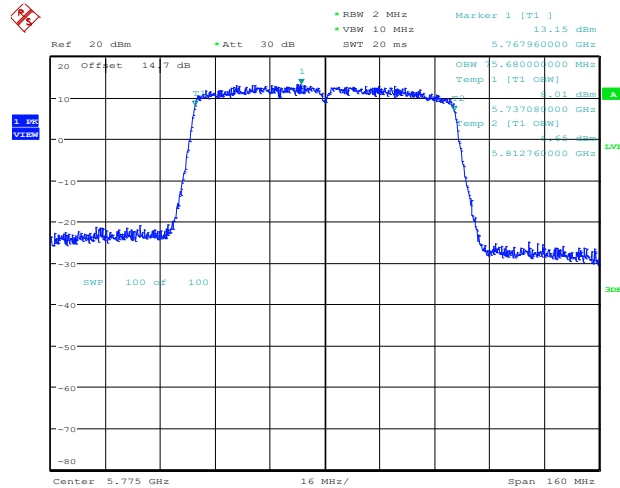
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11AC80MIMO_Ant1_5775



Date: 19.OCT.2023 16:39:16

11AC80MIMO_Ant2_5775



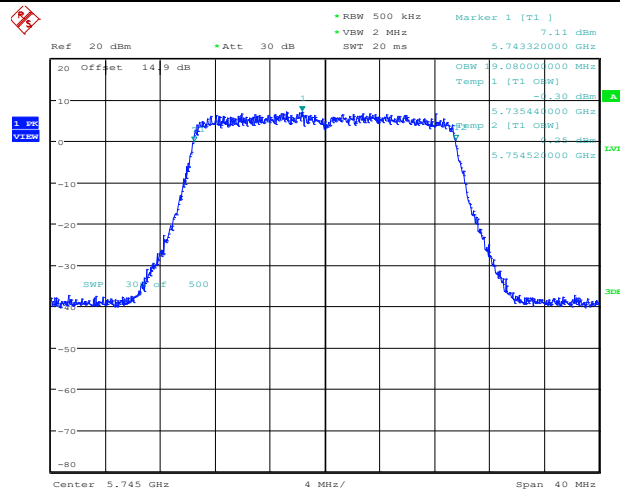
Date: 19.OCT.2023 16:41:45

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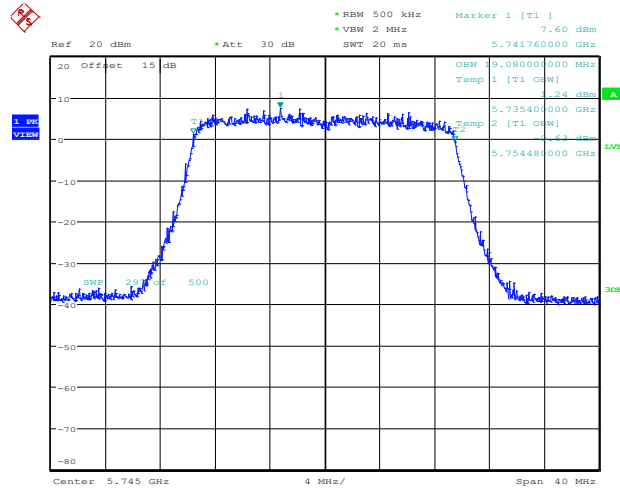
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11AX20MIMO_Ant1_5745



Date: 28.JUL.2023 10:25:40

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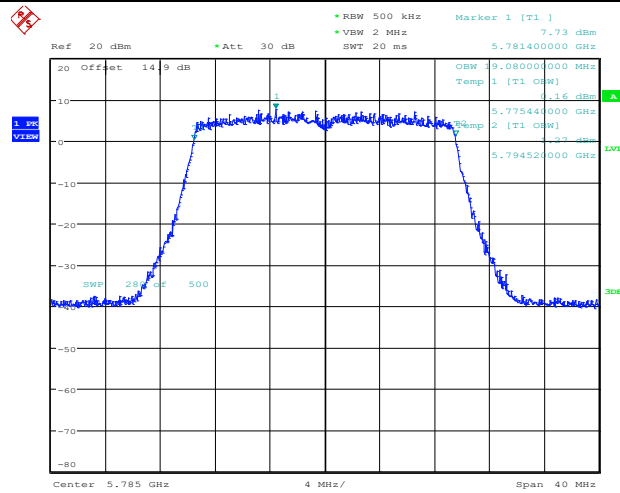
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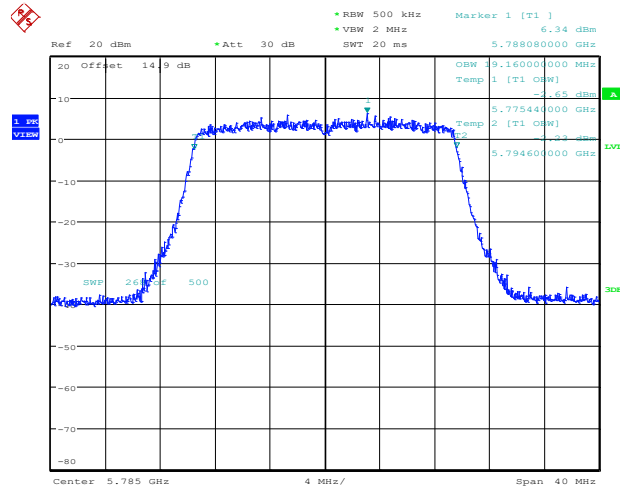
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11AX20MIMO_Ant1_5785



Date: 28.JUL.2023 13:48:06

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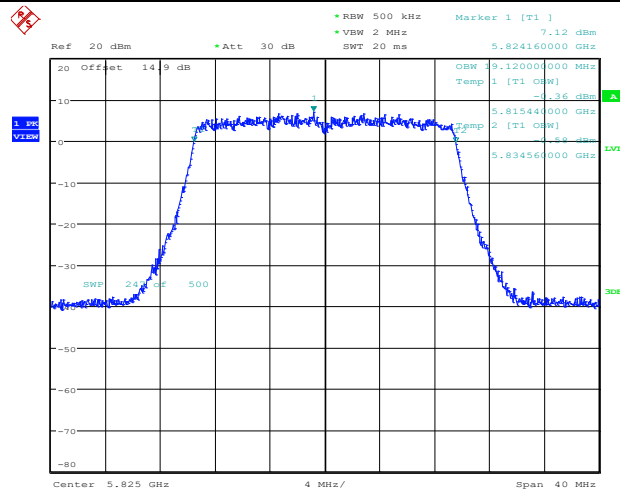
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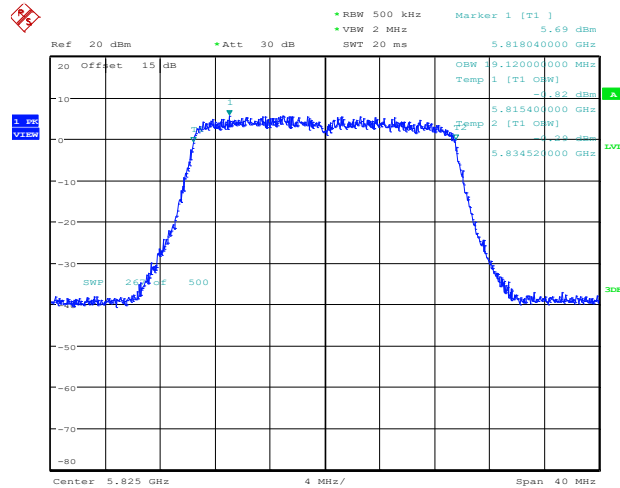
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11AX20MIMO_Ant1_5825



Date: 28.JUL.2023 13:52:27

11AX20MIMO_Ant2_5825



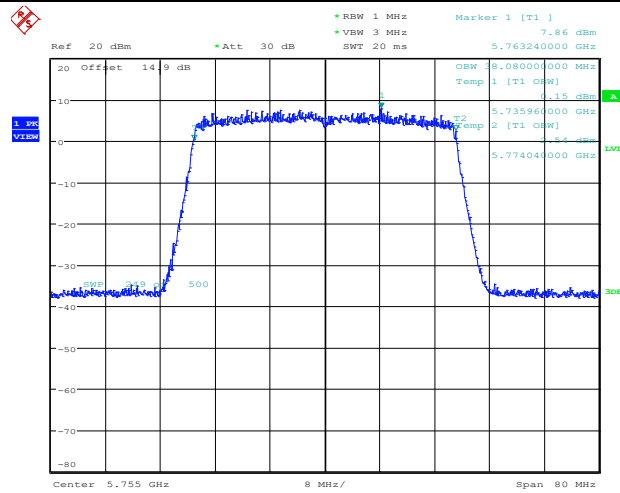
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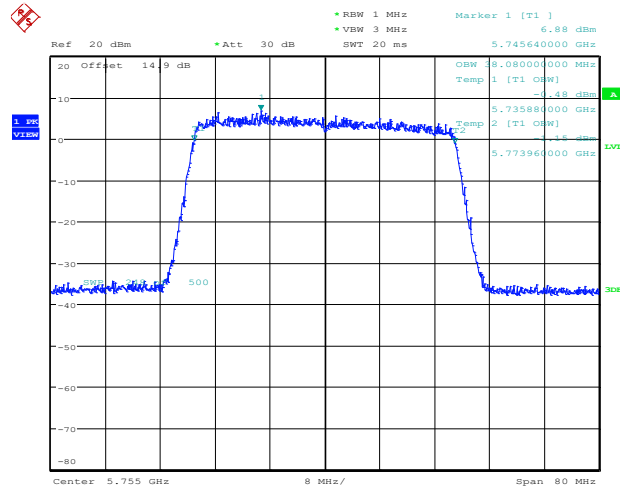
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11AX40MIMO_Ant1_5755



Date: 28.JUL.2023 14:35:01

11AX40MIMO_Ant2_5755



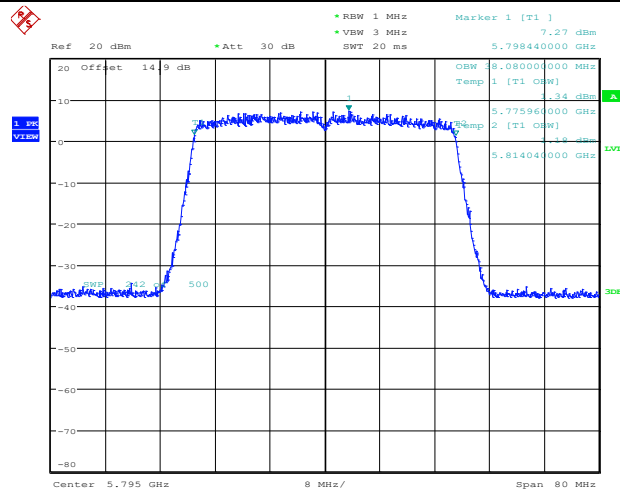
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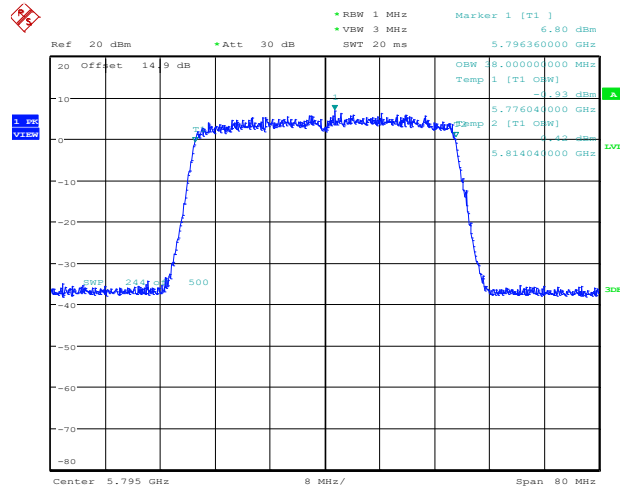
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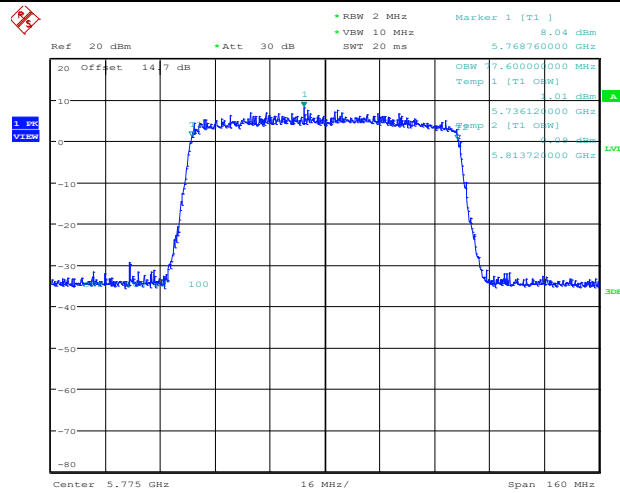
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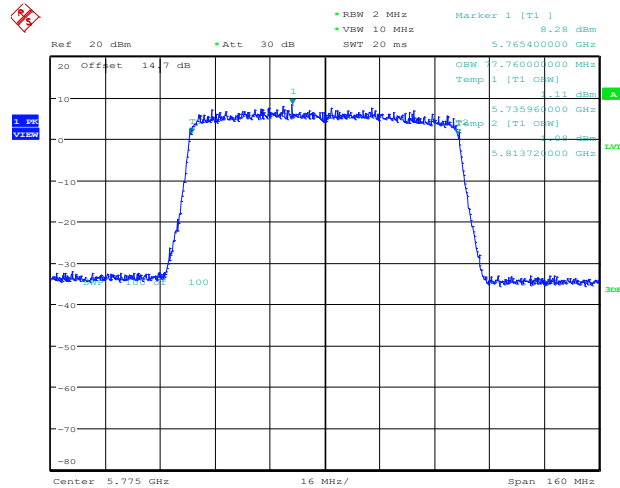
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11AX80MIMO_Ant1_5775



Date: 19.OCT.2023 16:44:45

11AX80MIMO_Ant2_5775



Date: 19.OCT.2023 16:46:47

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6.7. Band Edges Compliance

Specifications:	FCC 47 Part 15.407(b)
DUT Serial Number:	S3 S8 S11
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Limit Level Construction:

Above 1G, non-restricted band

Standard	Limit
15.407(b)	EIRP < -27dBm/MHz

Above 1G, Restricted band

Standard	Limit	
15.407(b)	EIRP < -27dBm/MHz	
15.209	Peak	74dBμV/m
	Average	54dBμV/m

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} + 20 \log(d[\text{m}]) - 104.7$$

$$\text{E[dB}\mu\text{V/m]} = \text{EIRP[dBm]} - 20 \log(d[\text{m}]) + 104.7$$

$$\text{E[dB}\mu\text{V/m]} = \text{EIRP[dBm]} + 95.2 = 68.2, \text{ for } d = 3\text{m}$$

Measurement Uncertainty:

Measurement Uncertainty	4.84dB(K=2)
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Test Procedure:

The measurement is made according to KDB 789033.

Marker-Delta Method: The marker-delta method, as described in ANSI C63.10, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

Procedure for peak unwanted emissions measurements above 1000 MHz

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

- Follow the requirements in 12.7.4.
- Peak emission levels are measured by setting the instrument as follows:

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1) RBW = 1 MHz.

2) VBW $\geq [3 \times \text{RBW}]$.

3) Detector = peak.

4) Sweep time = auto.

5) Trace mode = max hold.

6) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, then the time required for the trace to stabilize will increase by a factor of approximately $1 / D$, where D is the duty cycle. For example, at 50% duty cycle, the measurement time will increase by a factor of two, relative to measurement time for continuous transmission.

Procedures for average unwanted emissions measurements above 1000 MHz

a) RBW = 1 MHz.

b) Video bandwidth:

1) If the EUT is configured to transmit with $D \geq 98\%$, then set $\text{VBW} \leq \text{RBW} / 100$ (i.e., 10 kHz), but not less than 10 Hz.

2) If the EUT D is $< 98\%$, then set $\text{VBW} \geq 1 / T$, where T is defined in item a1) of 12.2.

c) Video bandwidth mode or display mode:

1) The instrument shall be set with video filtering applied in the power domain. Typically, this requires setting the detector mode to RMS (power averaging) and setting the average-VBW type to power (rms).

2) As an alternative, the instrument may be set to linear detector mode. Video filtering shall be applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode to accomplish this. Others have a setting for average-VBW type, which can be set to “voltage” regardless of the display mode.

d) Detector = peak.

e) Sweep time = auto.

f) Trace mode = max hold.

g) Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where D is the duty cycle. For example, use at least 200 traces if the duty cycle is 25%. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 50 traces should be averaged.)

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