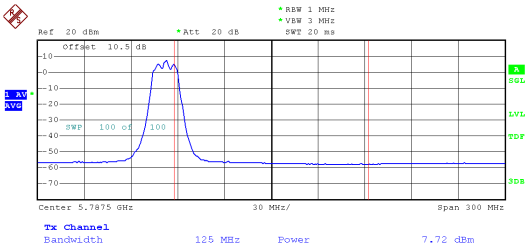
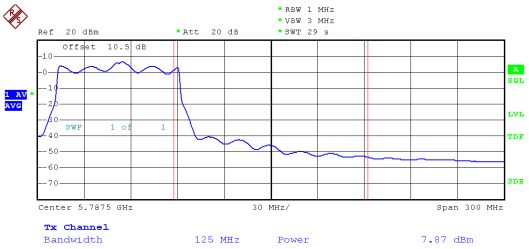
Non-Beamfroming ANT D:
Extends across 5725MHz band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



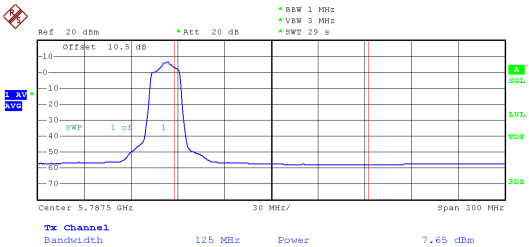
Date: 3.JAN.2025 11:58:09

Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138



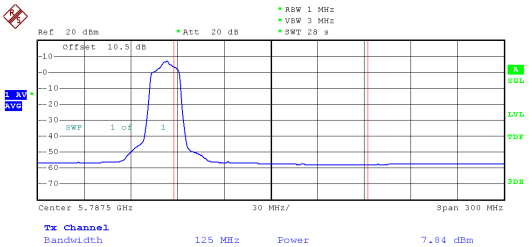
Date: 6.JAN.2025 17:56:15

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



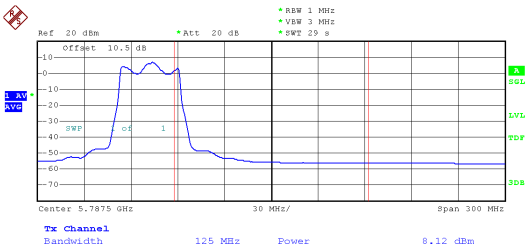
Date: 6.JAN.2025 17:41:18

Modulation Type: 802.11be EHT20 (7.3Mbps)
CH144



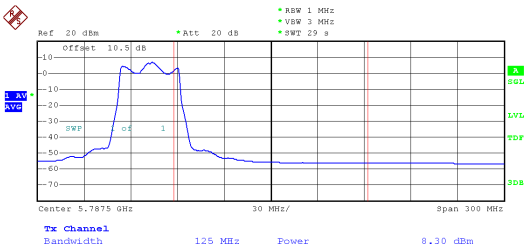
Date: 6.JAN.2025 10:52:37

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142



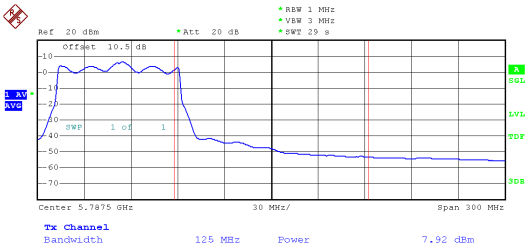
Date: 6.JAN.2025 17:48:54

Modulation Type: 802.11be EHT40 (14.6Mbps)
CH142



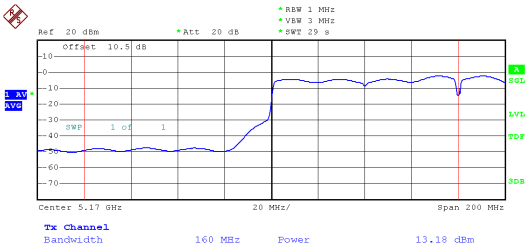
Date: 6.JAN.2025 14:33:43

Non-Beamfroming ANT D:
Extends across 5725MHz band, Straddle Channel
Modulation Type: 802.11be EHT80 (30.6Mbps)
CH138



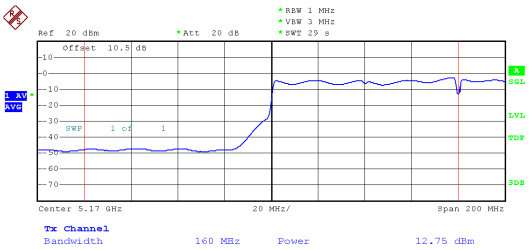
Date: 6.JAN.2025 15:56:47

Non-Beamfroming ANT A:
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH50



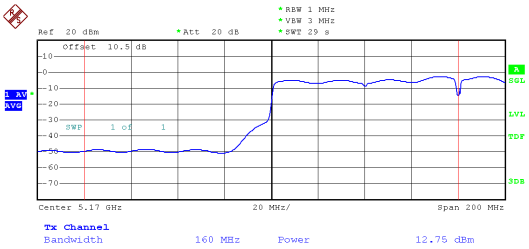
Date: 8.MAR.2025 18:03:27

Non-Beamfroming ANT D:
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH50



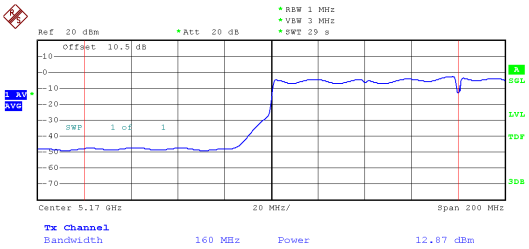
Date: 8.MAR.2025 18:05:44

Non-Beamfroming ANT A:
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



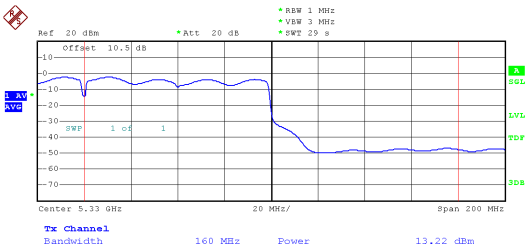
Date: 8.MAR.2025 12:38:08

Non-Beamfroming ANT D:
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



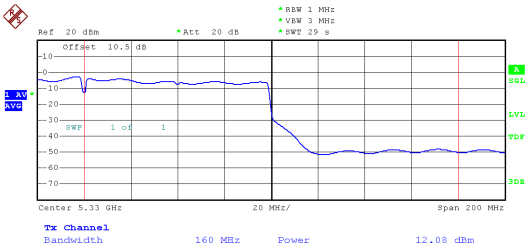
Date: 8.MAR.2025 12:41:52

Non-Beamfroming ANT A:
Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH50



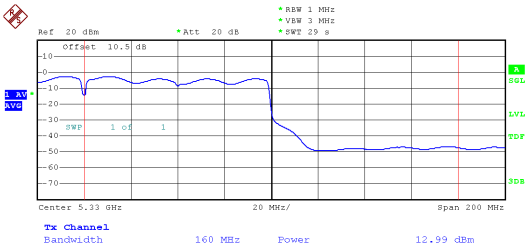
Date: 8.MAR.2025 18:04:35

Non-Beamfroming ANT D:
Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH50



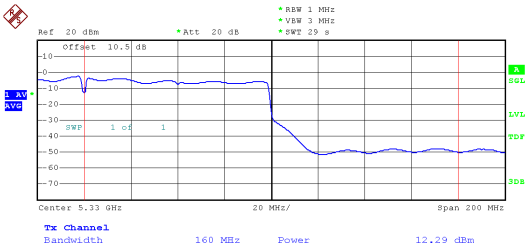
Date: 8.MAR.2025 18:06:53

Non-Beamfroming ANT A:
Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



Date: 8.MAR.2025 12:39:17

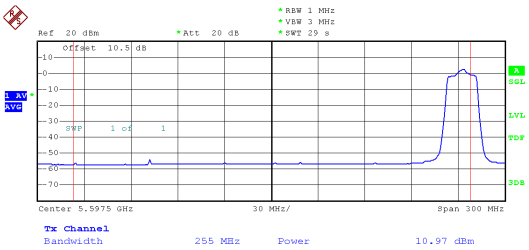
Non-Beamfroming ANT D:
Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



Date: 8.MAR.2025 12:43:01

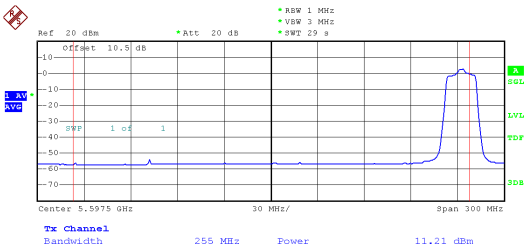
Beamfroming ANT A:
Within 5470-5725MHz Band, Straddle Channel

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



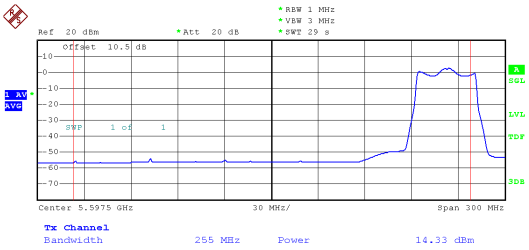
Date: 11.JAN.2025 16:48:56

Modulation Type: 802.11be EHT20 (7.3Mbps)
CH144



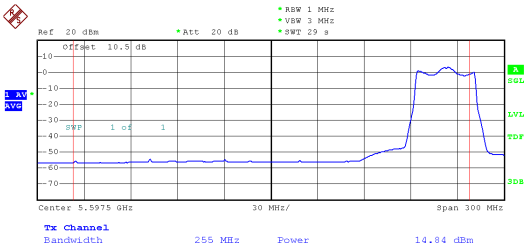
Date: 11.JAN.2025 17:05:07

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142



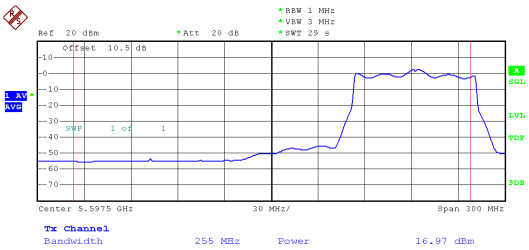
Date: 11.JAN.2025 17:31:18

Modulation Type: 802.11be EHT40 (14.6Mbps)
CH142



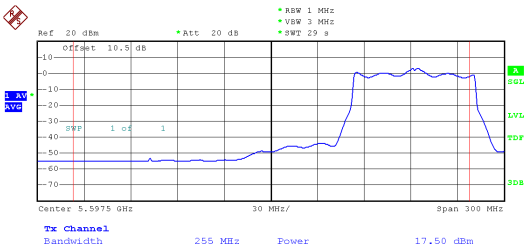
Date: 11.JAN.2025 18:22:10

Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138



Date: 11.JAN.2025 17:50:06

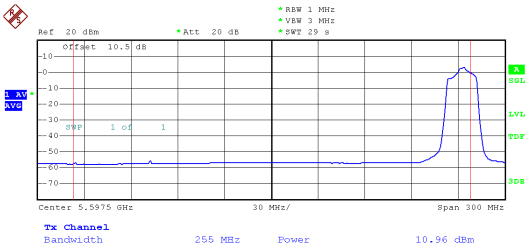
Modulation Type: 802.11be EHT80 (30.6Mbps)
CH138



Date: 11.JAN.2025 18:07:31

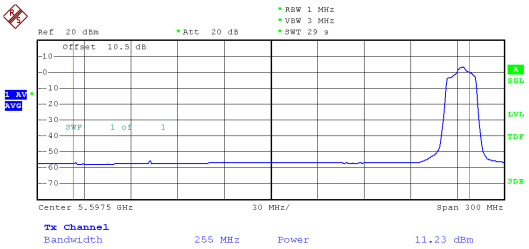
Beamfroming ANT D:
Within 5470-5725MHz Band, Straddle Channel

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



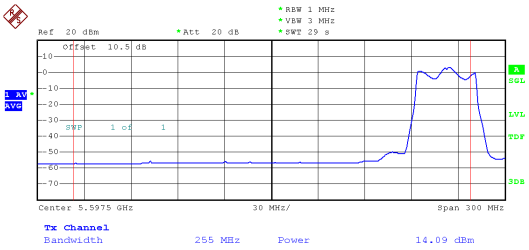
Date: 11.JAN.2025 16:53:23

Modulation Type: 802.11be EHT20 (7.3Mbps)
CH144



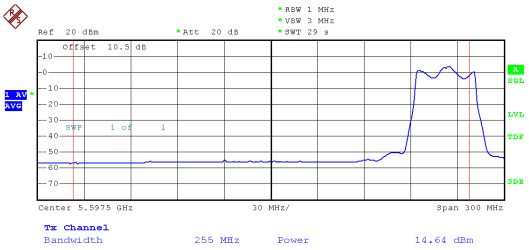
Date: 11.JAN.2025 17:09:34

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142



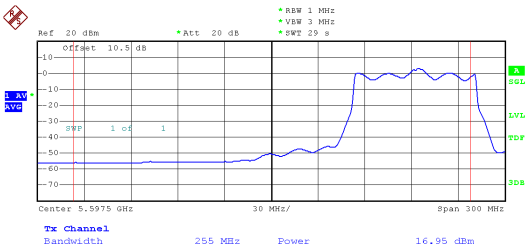
Date: 11.JAN.2025 17:35:50

Modulation Type: 802.11be EHT40 (14.6Mbps)
CH142



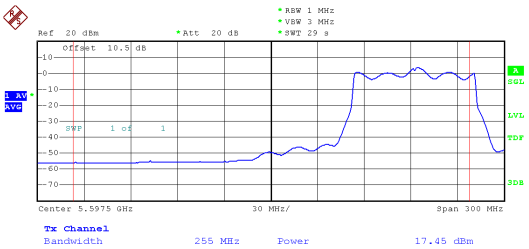
Date: 11.JAN.2025 18:26:41

Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138



Date: 11.JAN.2025 17:53:31

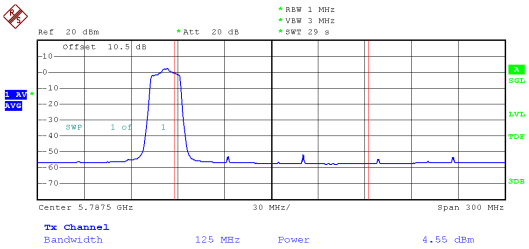
Modulation Type: 802.11be EHT80 (30.6Mbps)
CH138



Date: 11.JAN.2025 18:12:03

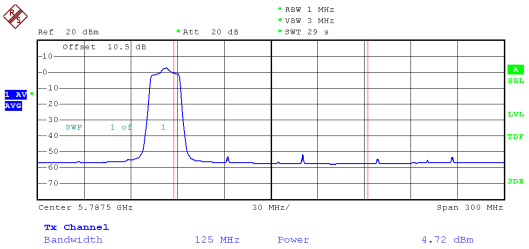
Beamfroming ANT A:
Extends across 5725MHz band, Straddle Channel

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



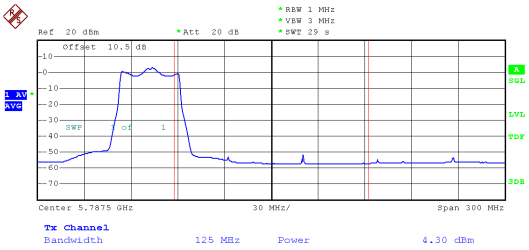
Date: 11.JAN.2025 16:50:02

Modulation Type: 802.11be EHT20 (7.3Mbps)
CH144



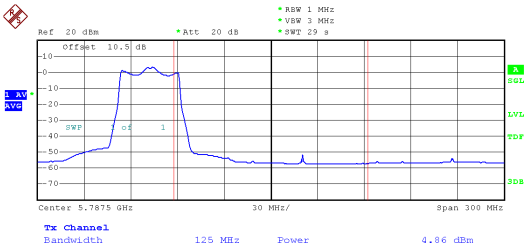
Date: 11.JAN.2025 17:06:13

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142



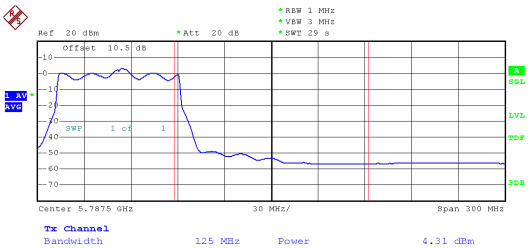
Date: 11.JAN.2025 17:32:27

Modulation Type: 802.11be EHT40 (14.6Mbps)
CH142



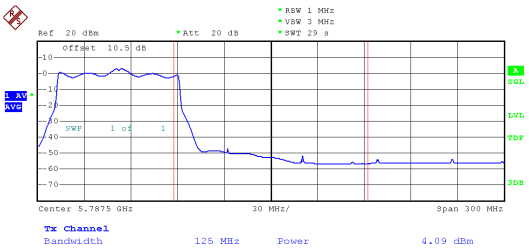
Date: 11.JAN.2025 18:23:19

Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138



Date: 11.JAN.2025 18:00:04

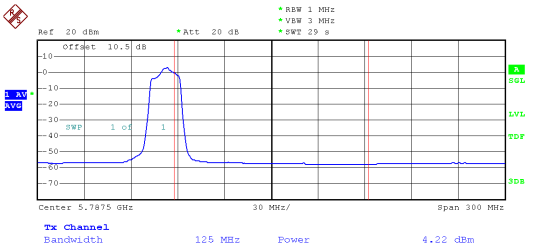
Modulation Type: 802.11be EHT80 (30.6Mbps)
CH138



Date: 11.JAN.2025 18:08:40

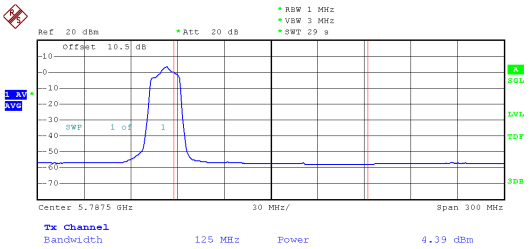
Beamfroming ANT D:
Extends across 5725MHz band, Straddle Channel

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



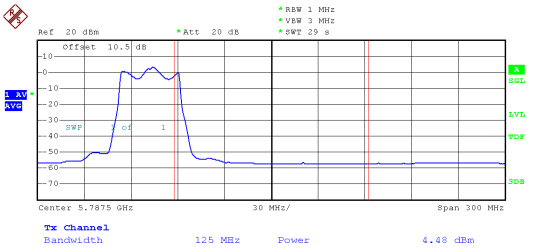
Date: 11.JAN.2025 16:54:30

Modulation Type: 802.11be EHT20 (7.3Mbps)
CH144



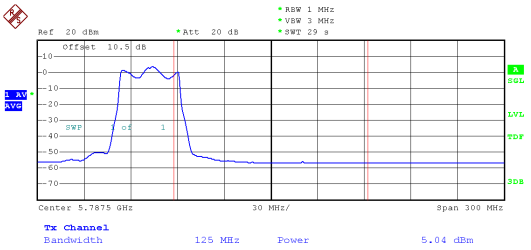
Date: 11.JAN.2025 17:10:41

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142



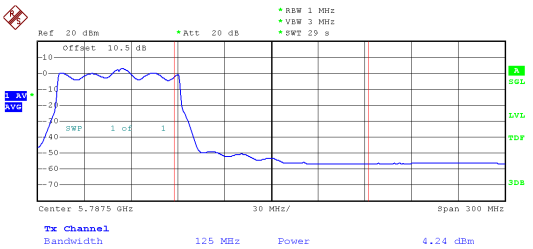
Date: 11.JAN.2025 17:36:59

Modulation Type: 802.11be EHT40 (14.6Mbps)
CH142



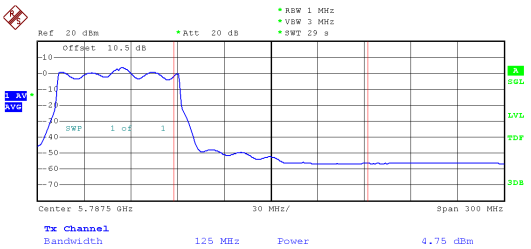
Date: 11.JAN.2025 18:27:49

Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138



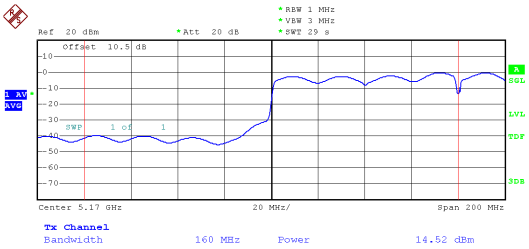
Date: 11.JAN.2025 17:54:39

Modulation Type: 802.11be EHT80 (30.6Mbps)
CH138



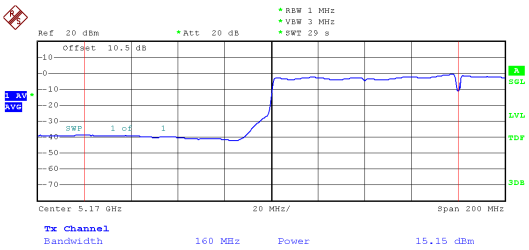
Date: 11.JAN.2025 18:13:11

Beamfroming ANT A:
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH50



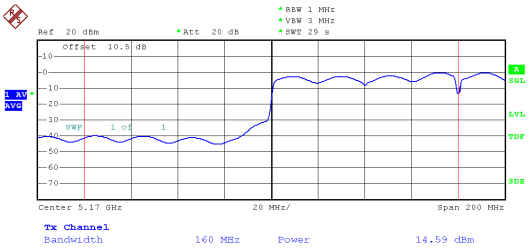
Date: 13.JAN.2025 10:07:18

Beamfroming ANT D:
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH50



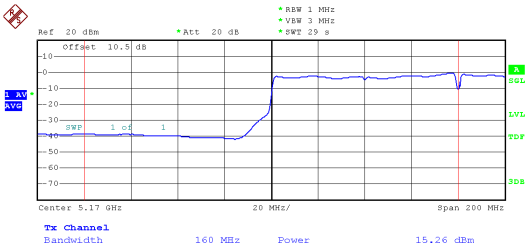
Date: 13.JAN.2025 10:09:33

Beamfroming ANT A:
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



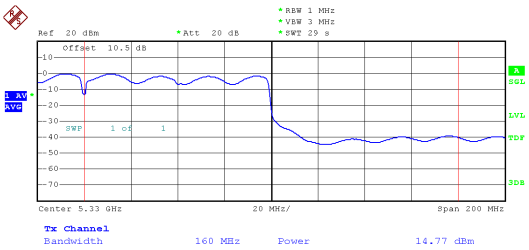
Date: 13.JAN.2025 11:46:15

Beamfroming ANT D:
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



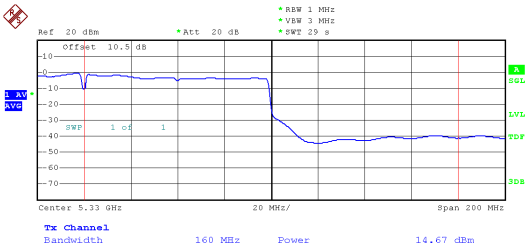
Date: 13.JAN.2025 11:48:30

Beamfroming ANT A:
Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH50



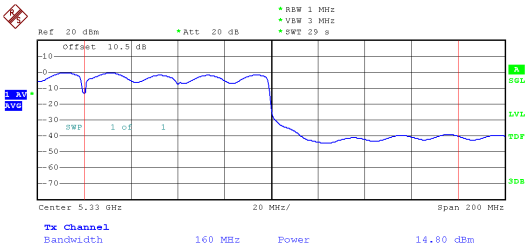
Date: 13.JAN.2025 10:08:25

Beamfroming ANT D:
Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH50



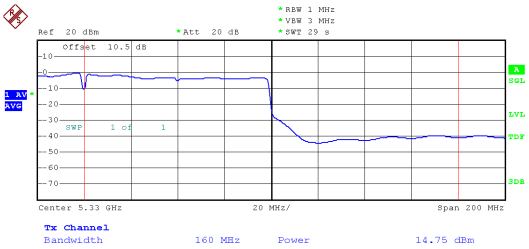
Date: 13.JAN.2025 10:10:41

Beamfroming ANT A:
Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



Date: 13.JAN.2025 11:47:22

Beamfroming ANT D:
Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



Date: 13.JAN.2025 11:49:38

11. Power Spectral Density

11.1.Test Limit

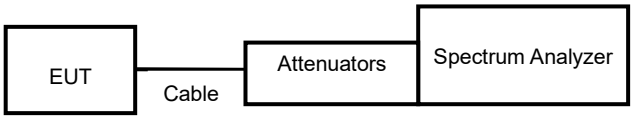
PSD:

Frequency Band			Limit
☒	5.15~5.25GHz		
	Operating Mode		
	☐	Outdoor access point	17 dBm/MHz
	☒	Indoor access point	17 dBm/MHz
	☐	Fixed point-to-point access points	17 dBm/MHz
	☐	Mobile and portable client devices	11 dBm/MHz
☒	5.725~5.85 GHz		11 dBm/MHz
☒	5.470-5.725 GHz		11 dBm/MHz
☒	5.725~5.85 GHz		30 dBm/500kHz

11.2.Test Procedure

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

11.3.Test Setup Layout



11.4. Test Result and Data

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT D				
11a	36	5180	12.82	14.10	16.52	0.00	16.52	17.00
11a	40	5200	13.07	13.99	16.56	0.00	16.56	17.00
11a	48	5240	13.44	13.65	16.56	0.00	16.56	17.00
11be EHT20	36	5180	12.64	14.68	16.79	0.11	16.90	17.00
11be EHT20	40	5200	12.53	14.28	16.50	0.11	16.61	17.00
11be EHT20	48	5240	13.21	13.81	16.53	0.11	16.64	17.00
11be EHT40	38	5190	7.32	8.81	11.14	0.13	11.27	17.00
11be EHT40	46	5230	9.64	11.24	13.52	0.13	13.65	17.00
11be EHT80	42	5210	4.16	5.97	8.17	0.14	8.31	17.00

In the 5.3G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT D				
11a	52	5260	7.66	7.76	10.72	0.00	10.72	11.00
11a	60	5300	7.90	7.54	10.73	0.00	10.73	11.00
11a	64	5320	8.26	7.54	10.93	0.00	10.93	11.00
11be EHT20	52	5260	6.98	8.18	10.63	0.11	10.74	11.00
11be EHT20	60	5300	6.95	7.78	10.40	0.11	10.51	11.00
11be EHT20	64	5320	7.14	7.63	10.40	0.11	10.51	11.00
11be EHT40	54	5270	6.76	7.93	10.39	0.13	10.52	11.00
11be EHT40	62	5310	5.04	5.84	8.47	0.13	8.60	11.00
11be EHT80	58	5290	2.36	2.43	5.41	0.14	5.55	11.00

In the 5.5G Band

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT D				
11a	100	5500	8.11	7.01	10.61	0.00	10.61	11.00
11a	120	5600	7.62	7.82	10.73	0.00	10.73	11.00
11a	140	5700	7.29	7.92	10.63	0.00	10.63	11.00
11a	144	5720	7.50	8.34	10.95	0.00	10.95	11.00
11be EHT20	100	5500	8.36	6.87	10.69	0.11	10.80	11.00
11be EHT20	120	5600	8.00	7.39	10.72	0.11	10.83	11.00
11be EHT20	140	5700	7.21	8.10	10.69	0.11	10.80	11.00
11be EHT20	144	5720	6.89	7.92	10.45	0.11	10.56	11.00
11be EHT40	102	5510	8.34	6.80	10.65	0.13	10.78	11.00
11be EHT40	118	5590	7.68	7.18	10.45	0.13	10.58	11.00
11be EHT40	134	5670	7.29	7.82	10.57	0.13	10.70	11.00
11be EHT40	142	5710	6.88	7.87	10.41	0.13	10.54	11.00
11be EHT80	106	5530	6.70	5.21	9.03	0.14	9.17	11.00
11be EHT80	122	5610	7.94	7.61	10.79	0.14	10.93	11.00
11be EHT80	138	5690	6.80	7.58	10.22	0.14	10.36	11.00
11be EHT160	114	5570	-7.35	-8.52	-4.89	0.11	-4.78	11.00

In the 5.8G Band

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KHz/RBW) CF (dB)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
			ANT A	ANT D					
11a	149	5745	15.65	16.52	19.12	0.00	-3.01	16.11	30.00
11a	157	5785	15.42	16.66	19.09	0.00	-3.01	16.08	30.00
11a	165	5825	14.90	16.51	18.79	0.00	-3.01	15.78	30.00
11be EHT20	149	5745	14.71	16.22	18.54	0.11	-3.01	15.64	30.00
11be EHT20	157	5785	13.80	16.02	18.06	0.11	-3.01	15.16	30.00
11be EHT20	165	5825	13.77	15.89	17.97	0.11	-3.01	15.07	30.00
11be EHT40	151	5755	11.88	13.42	15.73	0.13	-3.01	12.85	30.00
11be EHT40	159	5795	11.23	13.31	15.40	0.13	-3.01	12.52	30.00
11be EHT80	155	5775	6.72	8.06	10.45	0.14	-3.01	15.16	30.00

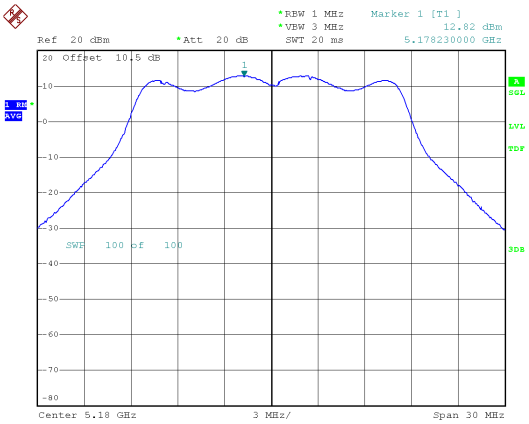
802.11be(160)

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT D				
11be EHT160	50	5210	-1.84	-1.67	1.26	0.11	1.37	17.00
11be EHT160		5290	-1.92	-2.73	0.70	0.11	0.81	11.00

ANT A

Modulation Type: 802.11a (6Mbps)

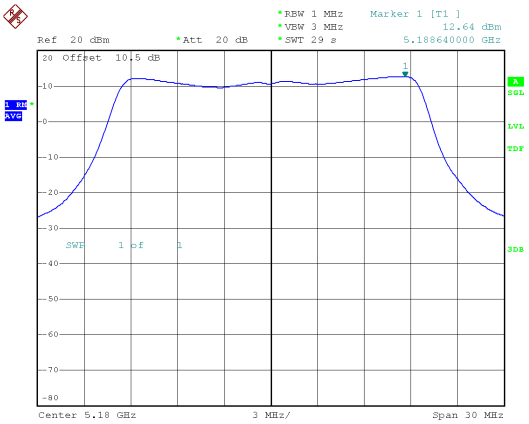
CH36



Date: 2.JAN.2025 17:45:24

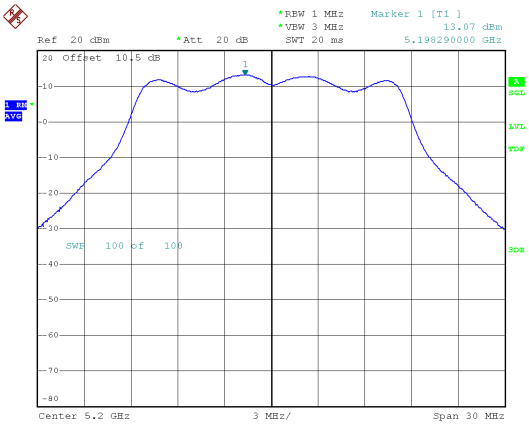
Modulation Type: 802.11be EHT20 (7.3Mbps)

CH36



Date: 3.JAN.2025 16:59:36

CH40



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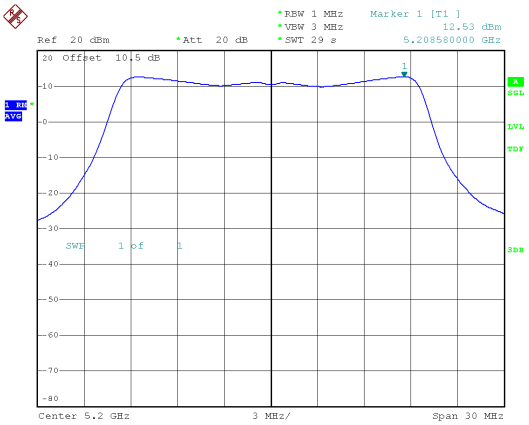
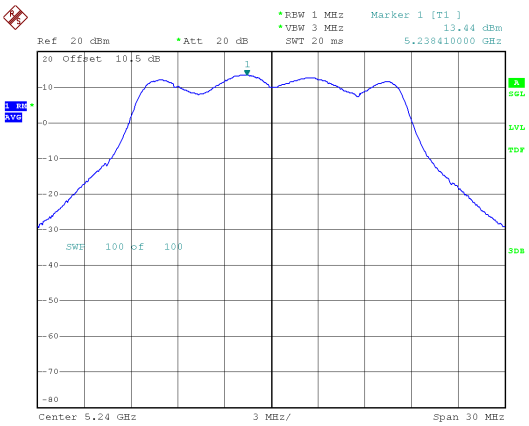
CH40



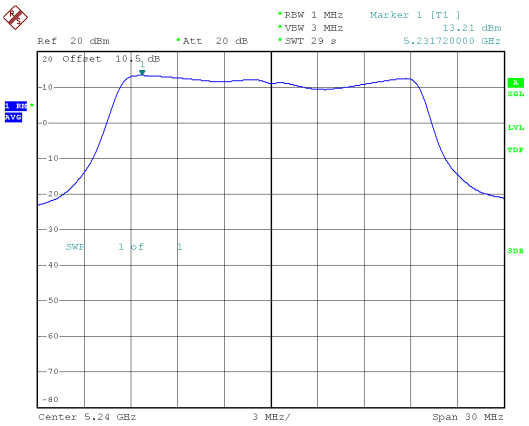
Date: 3.JAN.2025 17:02:08

CH48



Date: 3.JAN.2025 14:52:12

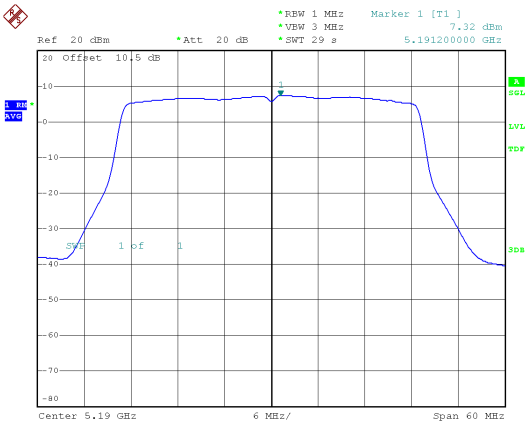
CH48



Date: 3.JAN.2025 17:04:35

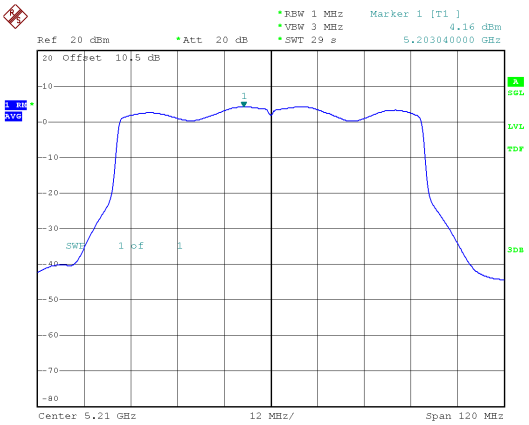
ANT A

Modulation Type: 802.11be EHT40 (14.6Mbps)
CH38



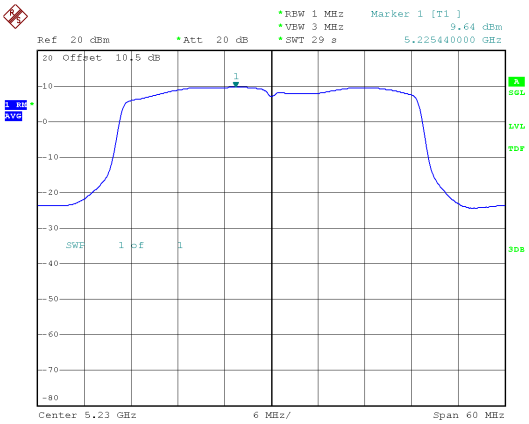
Date: 8.MAR.2025 11:32:30

Modulation Type: 802.11be EHT80 (30.6Mbps)
CH42



Date: 8.MAR.2025 12:16:39

CH46

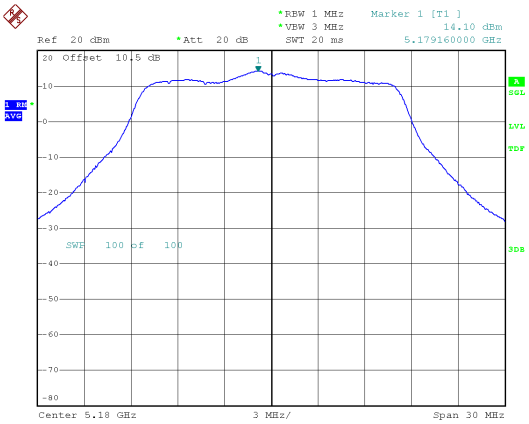


Date: 6.JAN.2025 11:53:44

ANT D

Modulation Type: 802.11a (6Mbps)

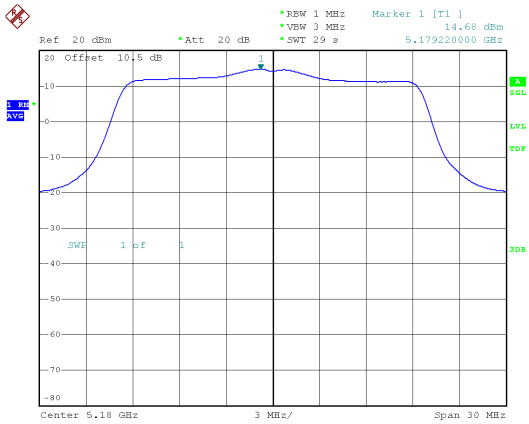
CH36



Date: 2.JAN.2025 17:46:32

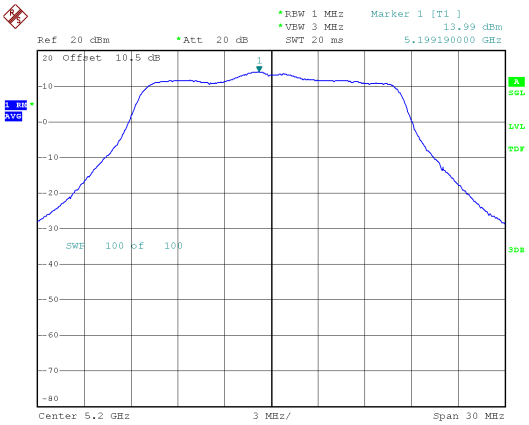
Modulation Type: 802.11be EHT20 (7.3Mbps)

CH36



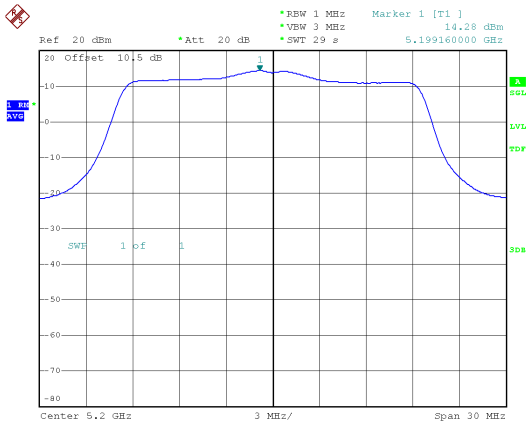
Date: 3.JAN.2025 17:00:20

CH40



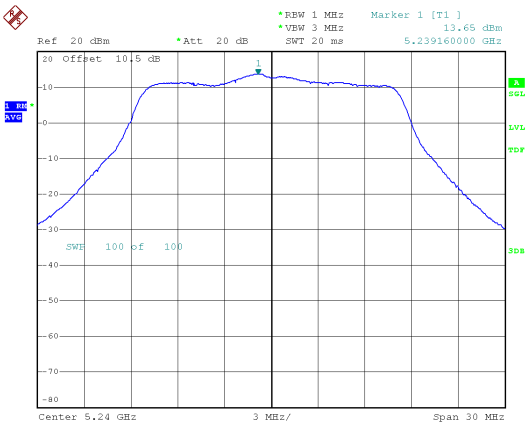
Date: 2.JAN.2025 17:51:16

CH40



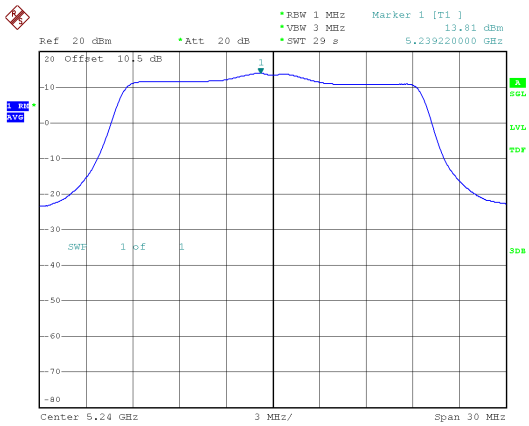
Date: 3.JAN.2025 17:02:53

CH48



Date: 3.JAN.2025 14:52:32

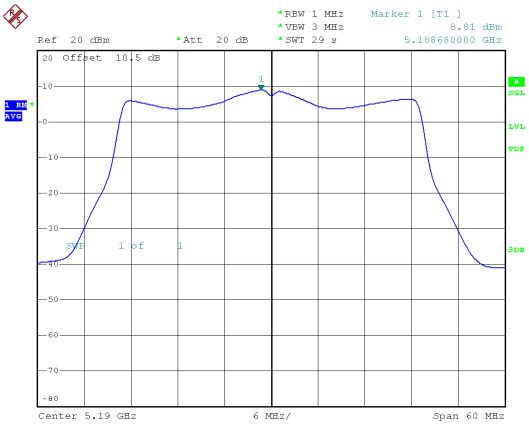
CH48



Date: 3.JAN.2025 17:05:19

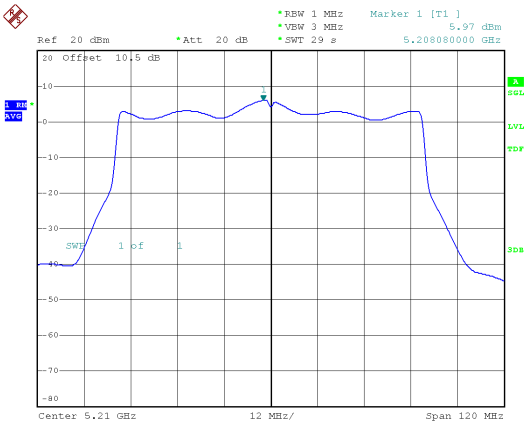
ANT D

Modulation Type: 802.11be EHT40 (14.6Mbps)
CH38



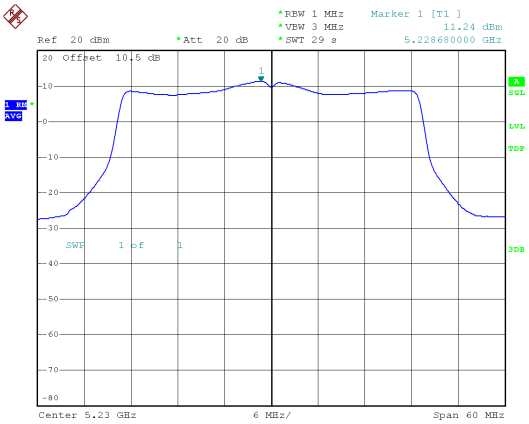
Date: 8.MAR.2025 11:33:14

Modulation Type: 802.11be EHT80 (30.6Mbps)
CH42



Date: 8.MAR.2025 12:17:23

CH46

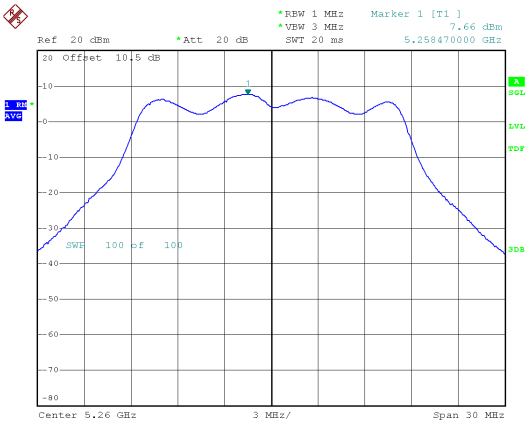


Date: 6.JAN.2025 13:18:11

ANT A

Modulation Type: 802.11a (6Mbps)

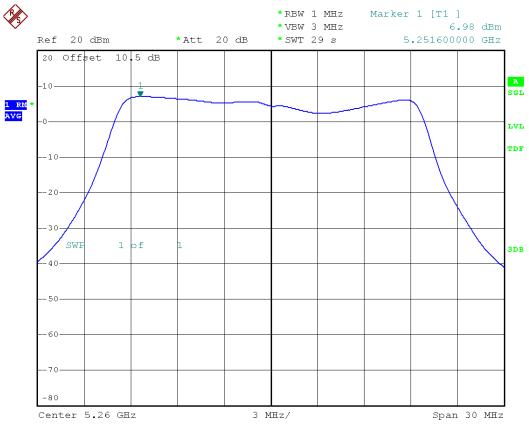
CH52



Date: 3.JAN.2025 10:43:18

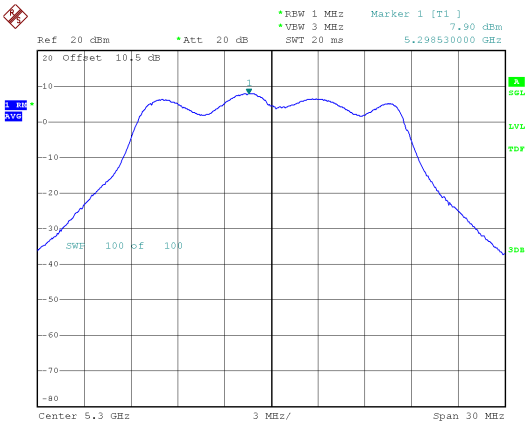
Modulation Type: 802.11be EHT20 (7.3Mbps)

CH52



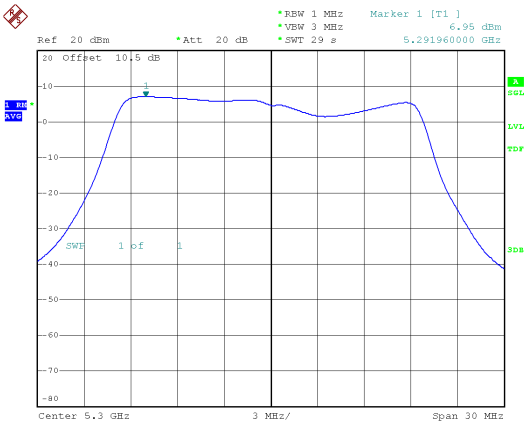
Date: 3.JAN.2025 17:07:25

CH60



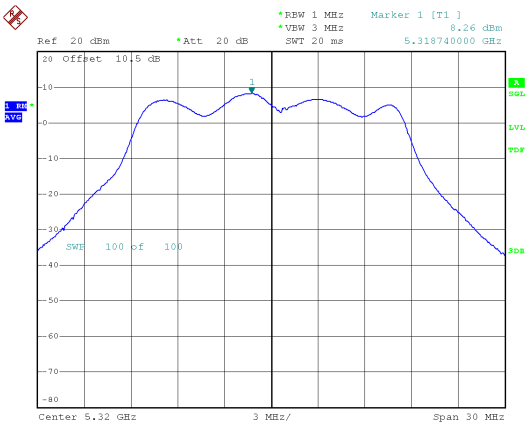
Date: 3.JAN.2025 10:52:13

CH60



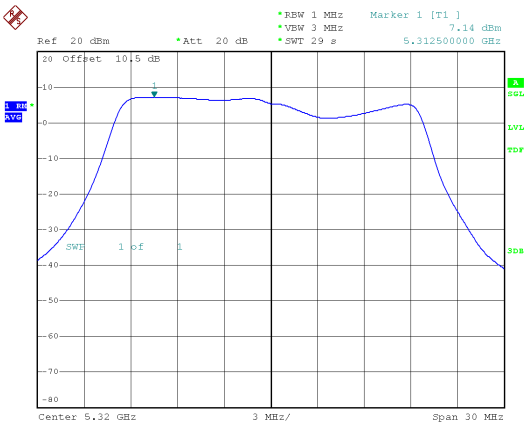
Date: 3.JAN.2025 17:22:03

CH64



Date: 3.JAN.2025 11:03:45

CH64

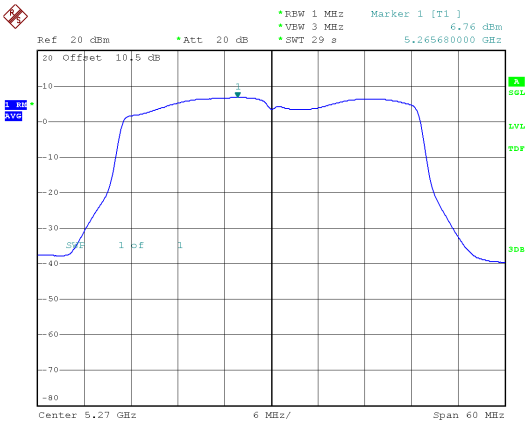


Date: 3.JAN.2025 17:26:48

ANT A

Modulation Type: 802.11be EHT40 (14.6Mbps)

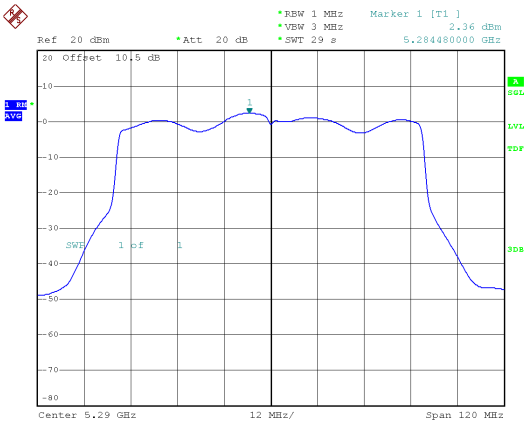
CH54



Date: 6.JAN.2025 13:31:07

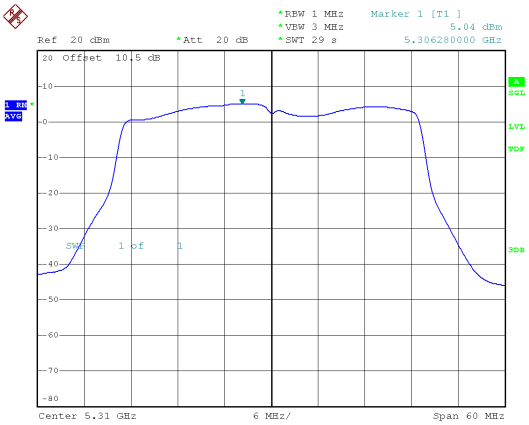
Modulation Type: 802.11be EHT80 (30.6Mbps)

CH58



Date: 8.MAR.2025 12:19:03

CH62

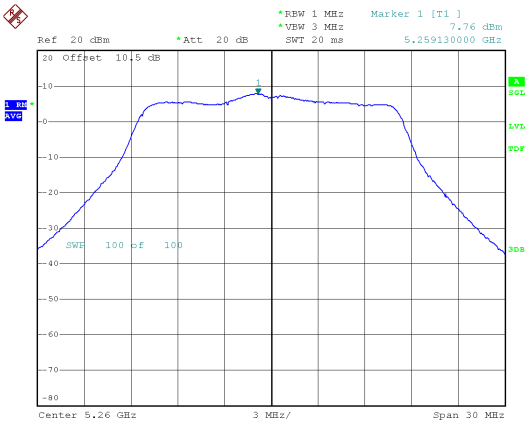


Date: 8.MAR.2025 11:35:38

ANT D

Modulation Type: 802.11a (6Mbps)

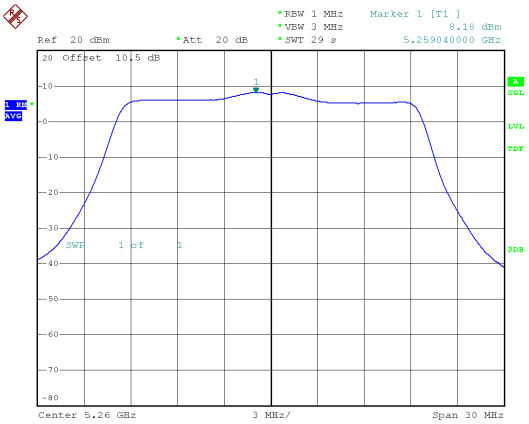
CH52



Date: 3.JAN.2025 10:43:57

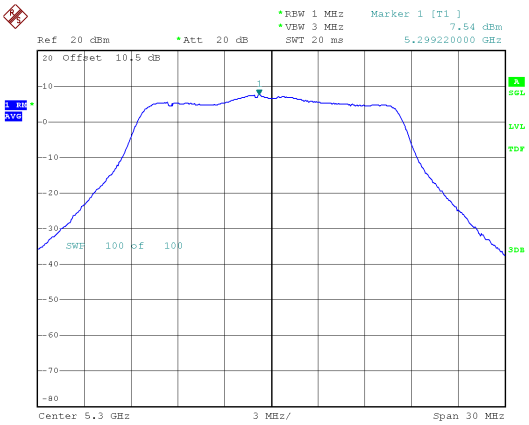
Modulation Type: 802.11be EHT20 (7.3Mbps)

CH52



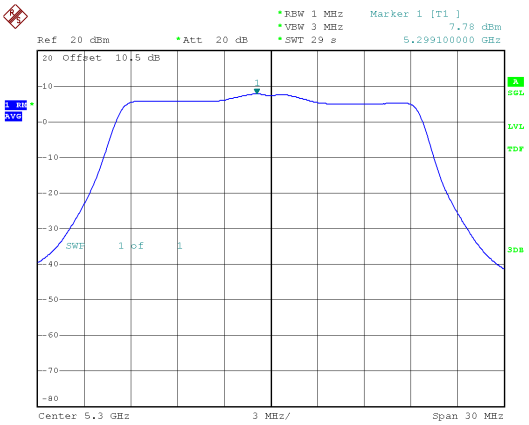
Date: 3.JAN.2025 17:08:54

CH60



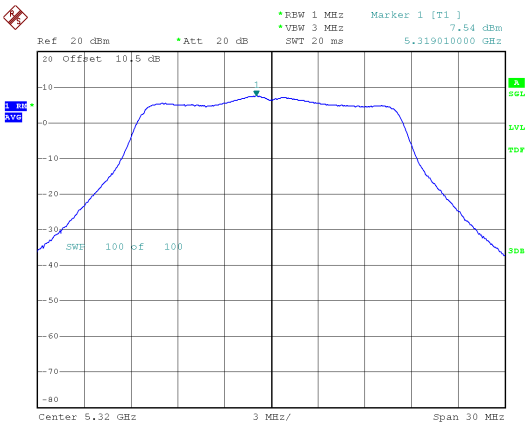
Date: 3.JAN.2025 10:52:51

CH60



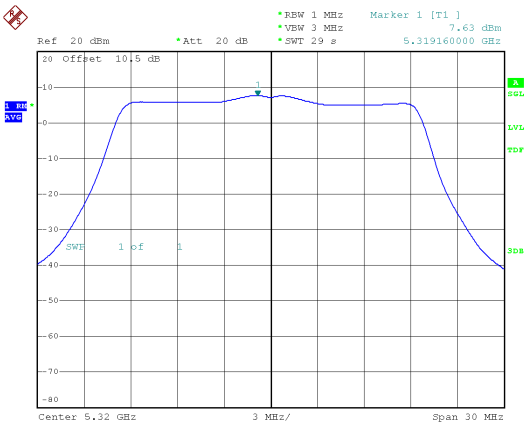
Date: 3.JAN.2025 17:23:33

CH64



Date: 3.JAN.2025 11:05:11

CH64

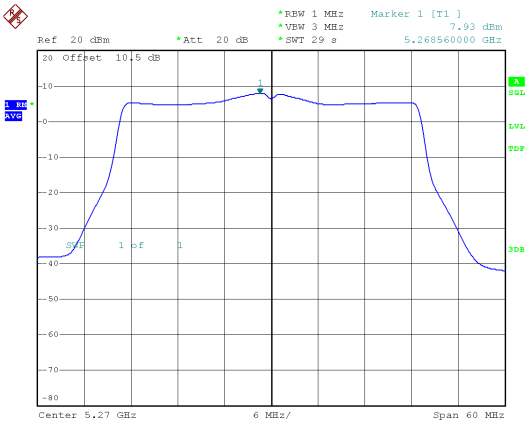


Date: 3.JAN.2025 17:28:17

ANT D

Modulation Type: 802.11be EHT40 (14.6Mbps)

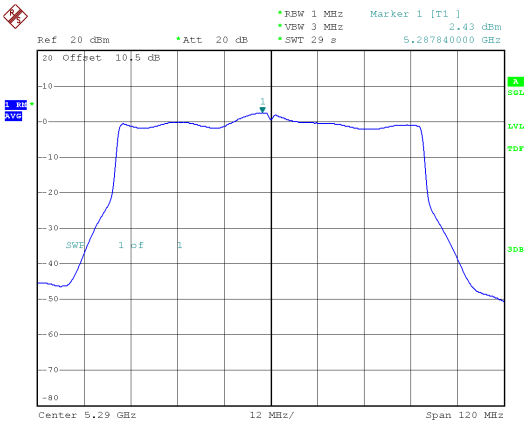
CH54



Date: 6.JAN.2025 13:32:36

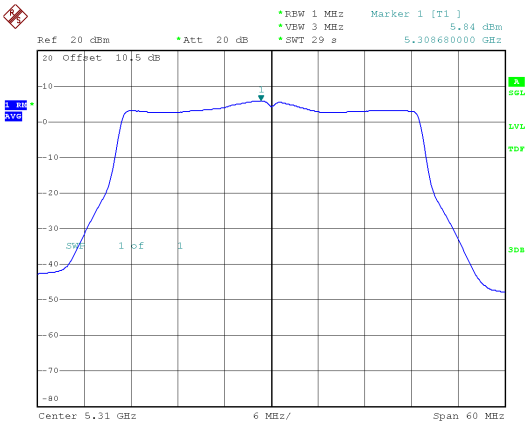
Modulation Type: 802.11be EHT80 (30.6Mbps)

CH58



Date: 8.MAR.2025 12:20:31

CH62

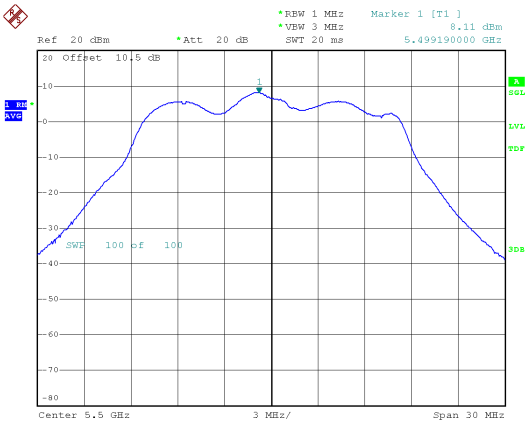


Date: 8.MAR.2025 11:37:06

ANT A

Modulation Type: 802.11a (6Mbps)

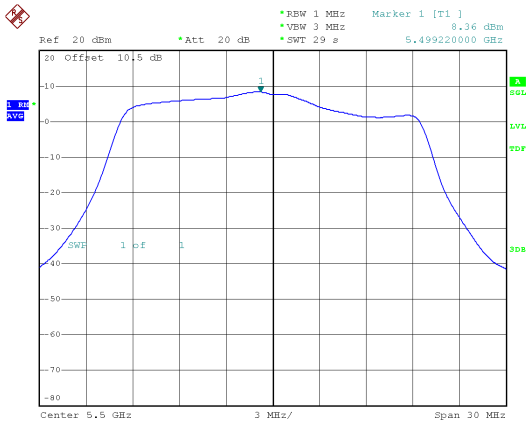
CH100



Date: 3.JAN.2025 11:11:01

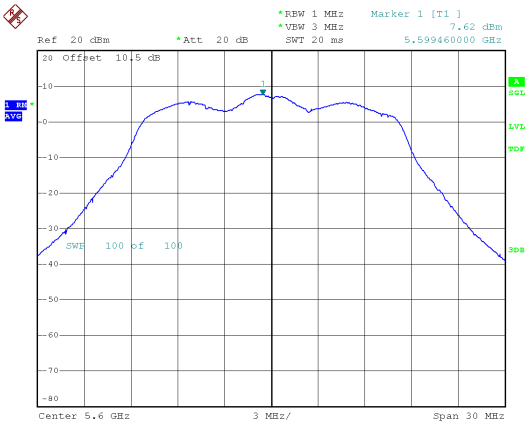
Modulation Type: 802.11be EHT20 (7.3Mbps)

CH100



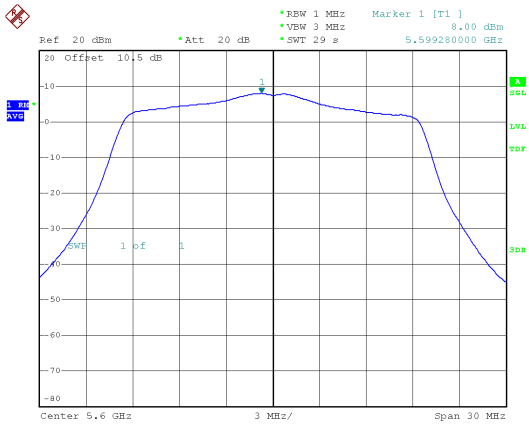
Date: 3.JAN.2025 17:32:26

CH120



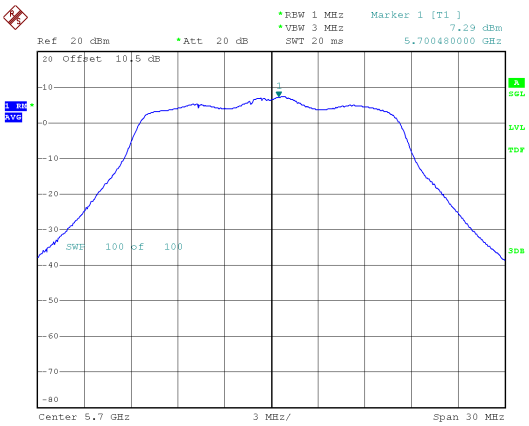
Date: 3.JAN.2025 11:24:18

CH120



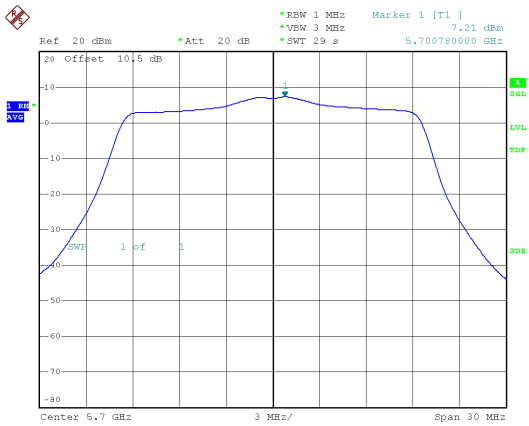
Date: 3.JAN.2025 17:40:21

CH140



Date: 3.JAN.2025 11:41:47

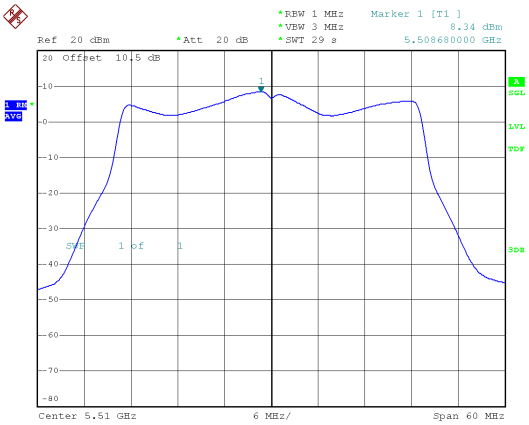
CH140



Date: 6.JAN.2025 10:23:16

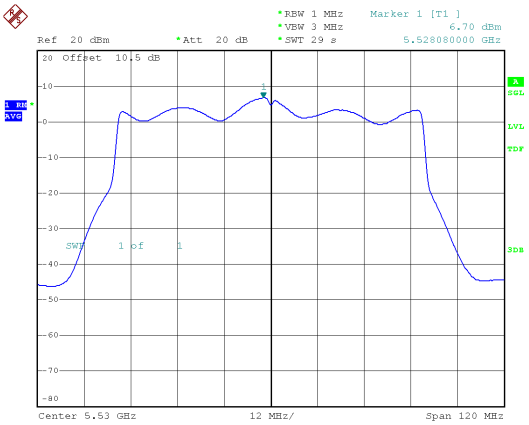
ANT A

Modulation Type: 802.11be EHT40 (14.6Mbps)
CH102



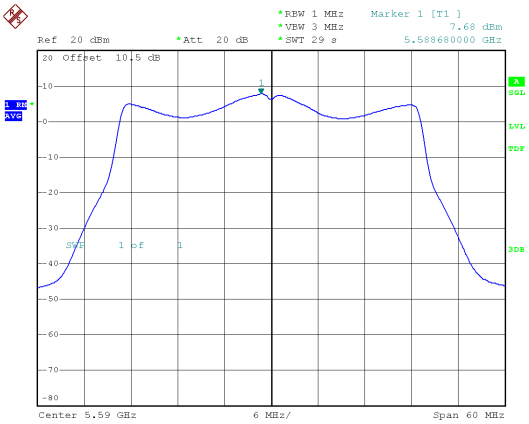
Date: 8.MAR.2025 12:00:39

Modulation Type: 802.11be EHT80 (30.6Mbps)
CH106



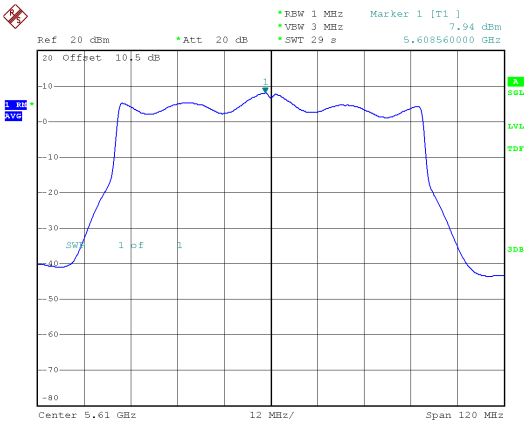
Date: 8.MAR.2025 12:23:30

CH118

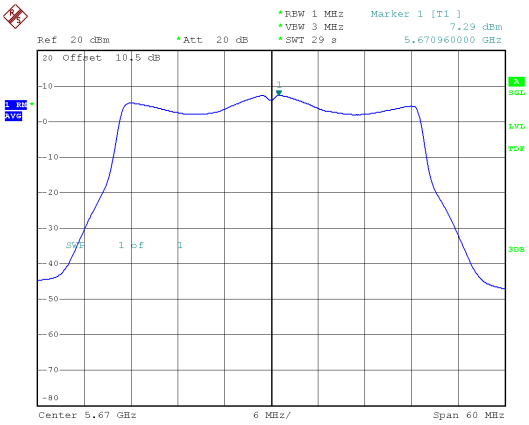


Date: 6.JAN.2025 14:07:28

CH122



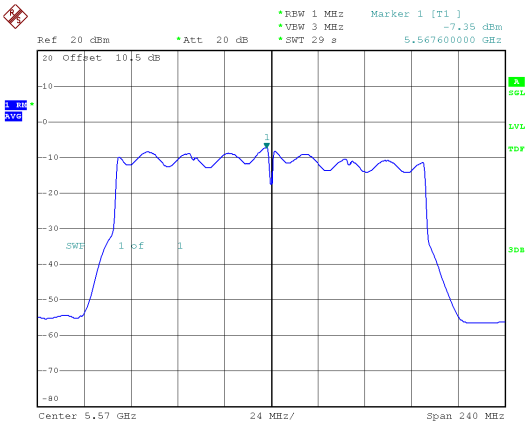
CH134



Date: 6.JAN.2025 14:13:30

ANT A

Modulation Type: 802.11be EHT160 (61.3Mbps)
CH114

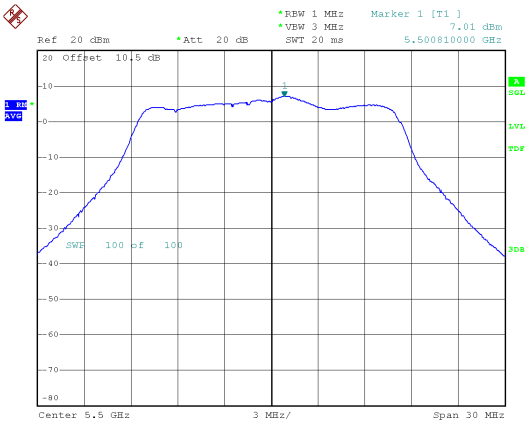


Date: 8.MAR.2025 13:51:54

ANT D

Modulation Type: 802.11a (6Mbps)

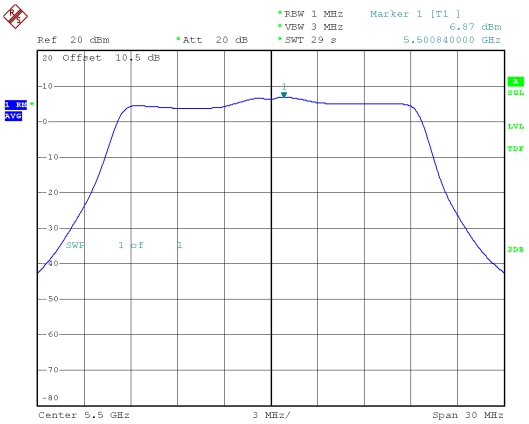
CH100



Date: 3.JAN.2025 11:11:21

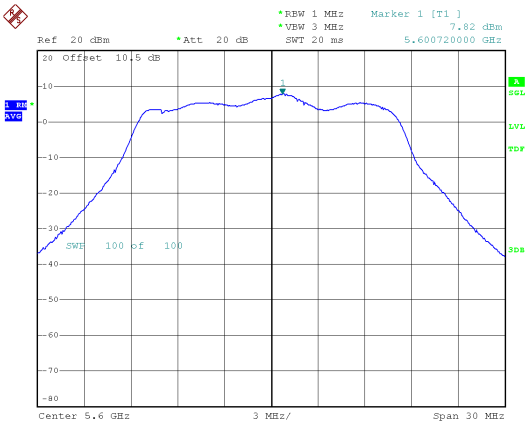
Modulation Type: 802.11be EHT20 (7.3Mbps)

CH100



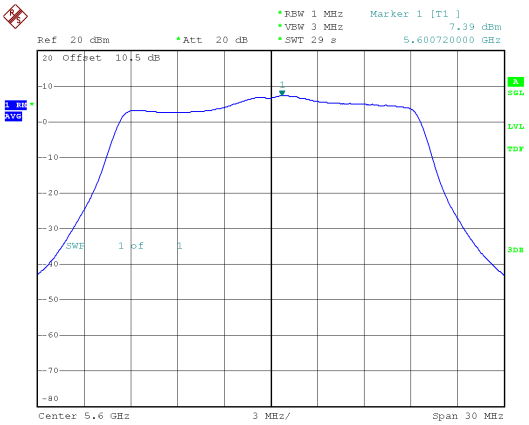
Date: 3.JAN.2025 17:33:11

CH120



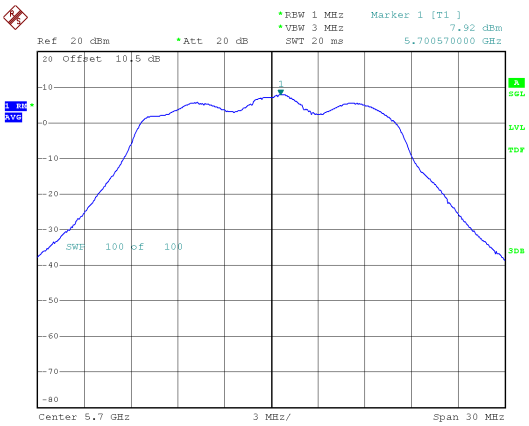
Date: 3.JAN.2025 11:25:26

CH120



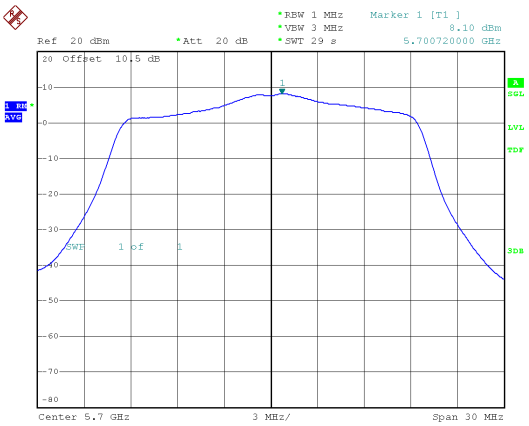
Date: 3.JAN.2025 17:41:06

CH140



Date: 3.JAN.2025 11:42:55

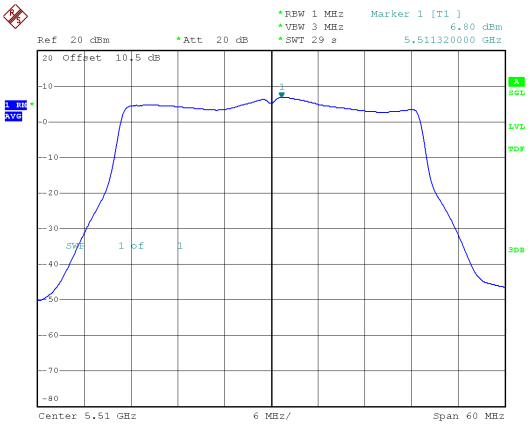
CH140



Date: 6.JAN.2025 10:24:00

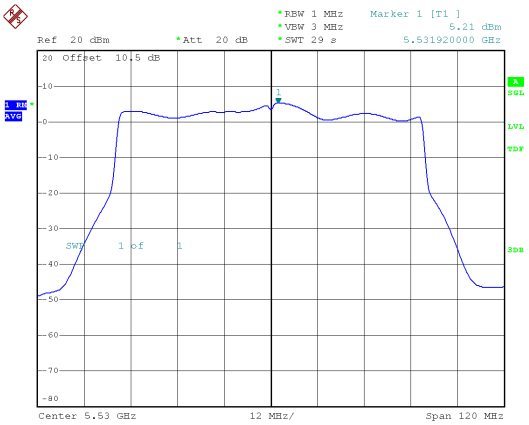
ANT D

Modulation Type: 802.11be EHT40 (14.6Mbps)
CH102



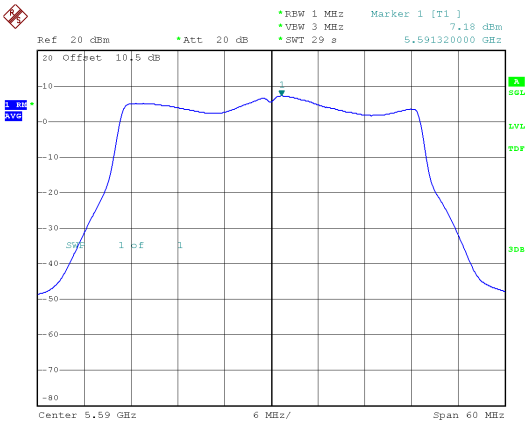
Date: 8.MAR.2025 12:01:23

Modulation Type: 802.11be EHT80 (30.6Mbps)
CH106



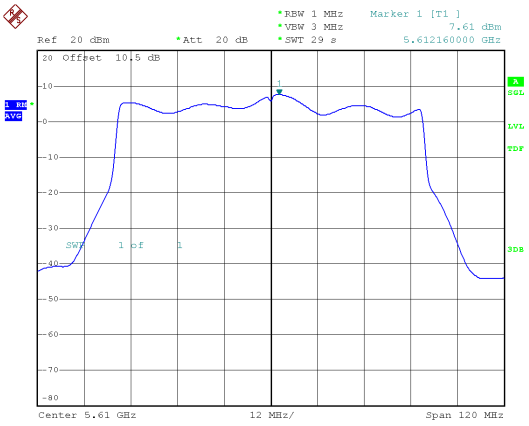
Date: 8.MAR.2025 12:24:14

CH118



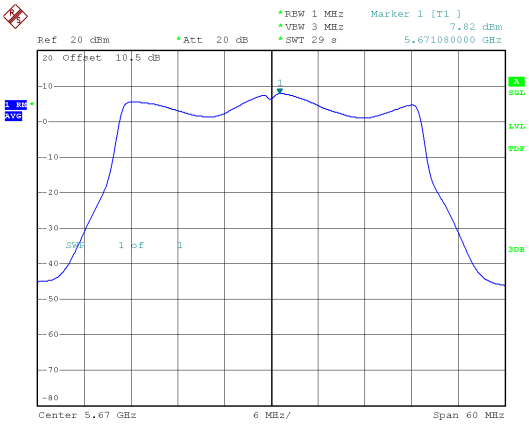
Date: 6.JAN.2025 14:08:12

CH122



Date: 8.MAR.2025 12:26:21

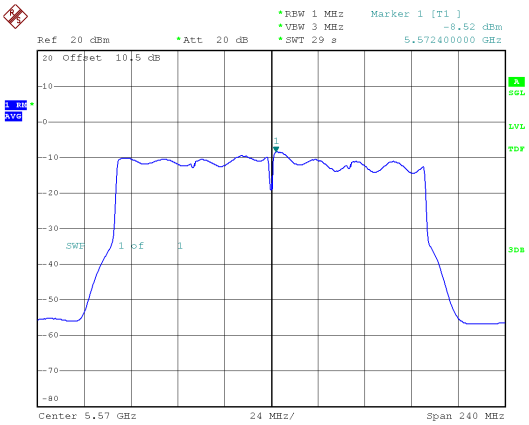
CH134



Date: 6.JAN.2025 14:14:14

ANT D

Modulation Type: 802.11be EHT160 (61.3Mbps)
CH114

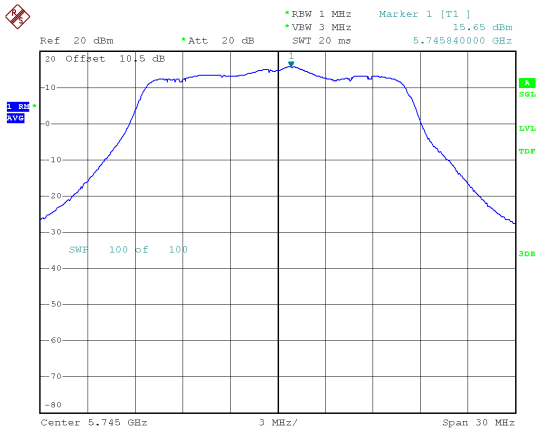


Date: 8.MAR.2025 13:52:38

ANT A

Modulation Type: 802.11a (6Mbps)

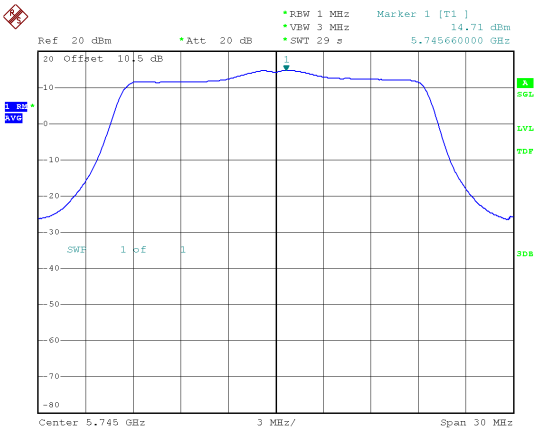
CH149



Date: 3.JAN.2025 13:25:24

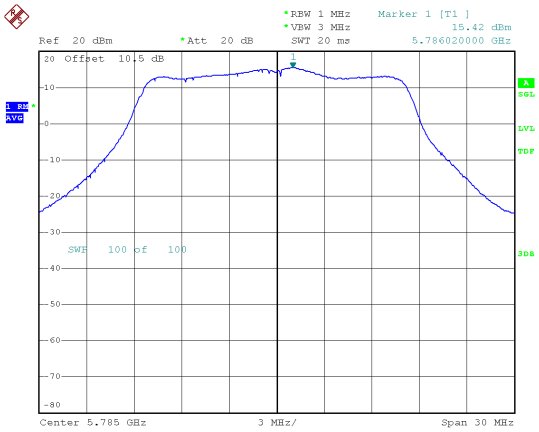
Modulation Type: 802.11be EHT20 (7.3Mbps)

CH149



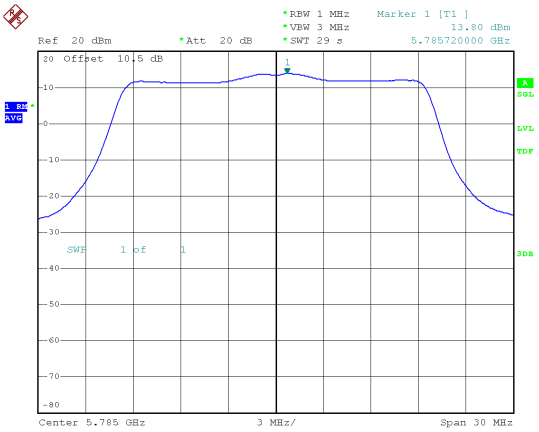
Date: 6.JAN.2025 11:13:11

CH157



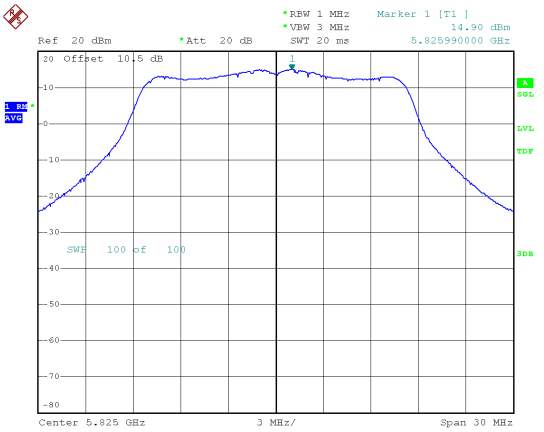
Date: 3.JAN.2025 13:28:48

CH157



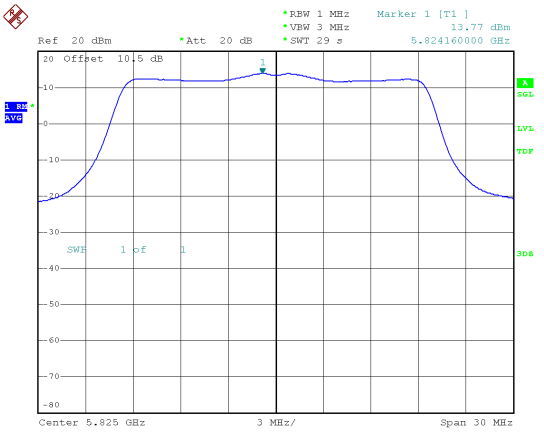
Date: 6.JAN.2025 11:36:14

CH165



Date: 3.JAN.2025 13:33:44

CH165

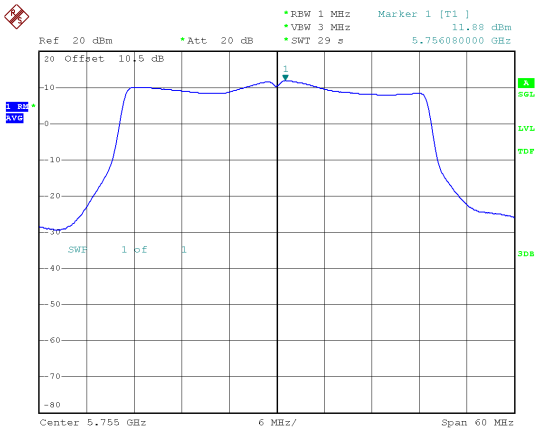


Date: 6.JAN.2025 11:40:16

ANT A

Modulation Type: 802.11be EHT40 (14.6Mbps)

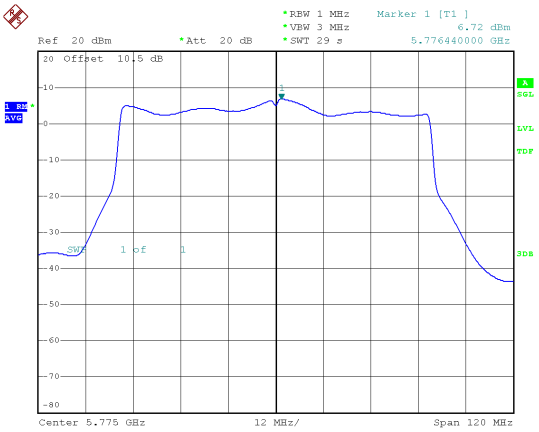
CH151



Date: 6.JAN.2025 14:40:19

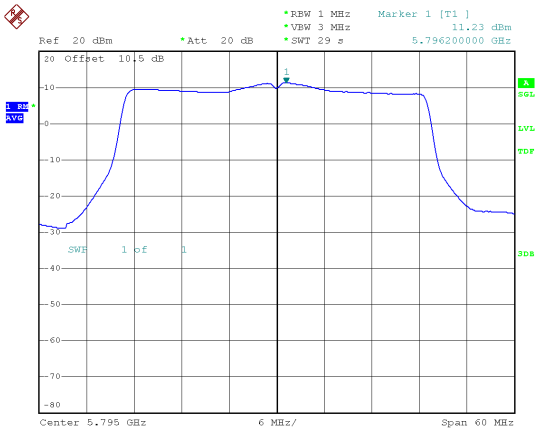
Modulation Type: 802.11be EHT80 (30.6Mbps)

CH155



Date: 8.MAR.2025 12:30:08

CH159

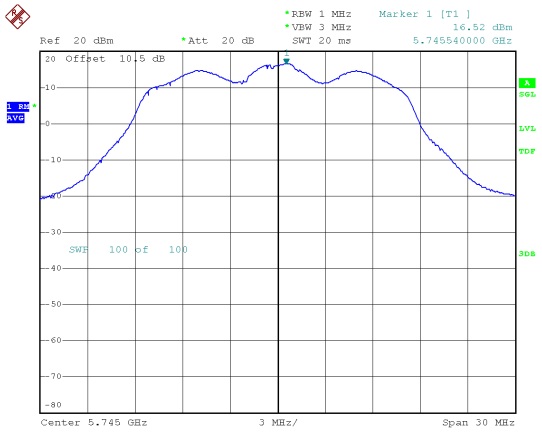


Date: 6.JAN.2025 14:44:31

ANT D

Modulation Type: 802.11a (6Mbps)

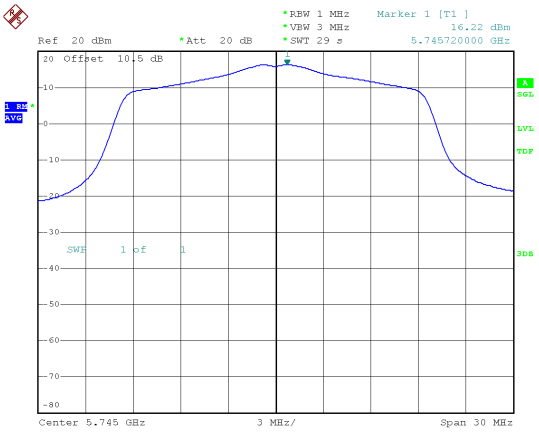
CH149



Date: 3.JAN.2025 13:26:33

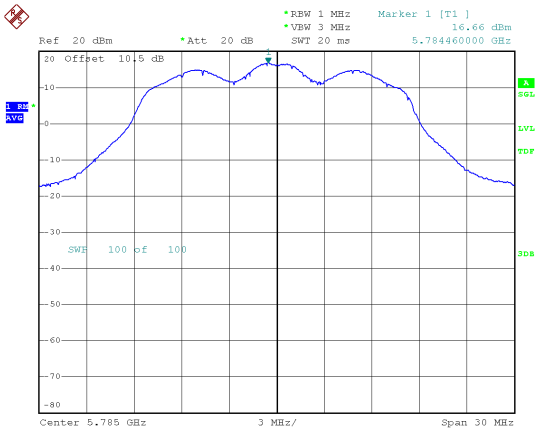
Modulation Type: 802.11be EHT20 (7.3Mbps)

CH149



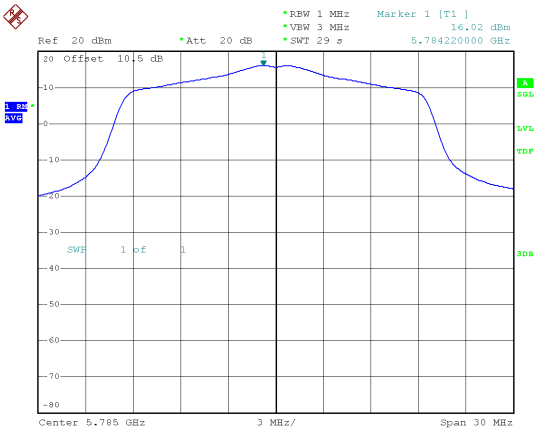
Date: 6.JAN.2025 11:14:43

CH157



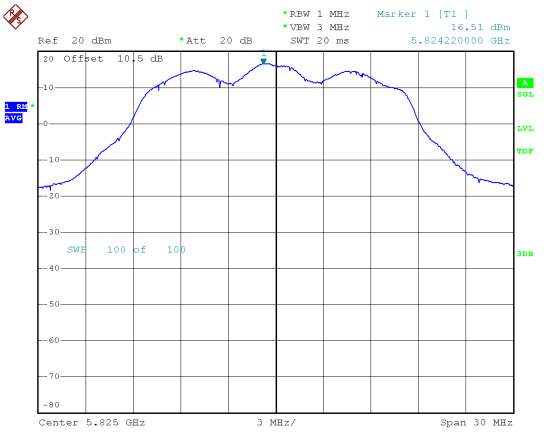
Date: 3.JAN.2025 13:29:58

CH157



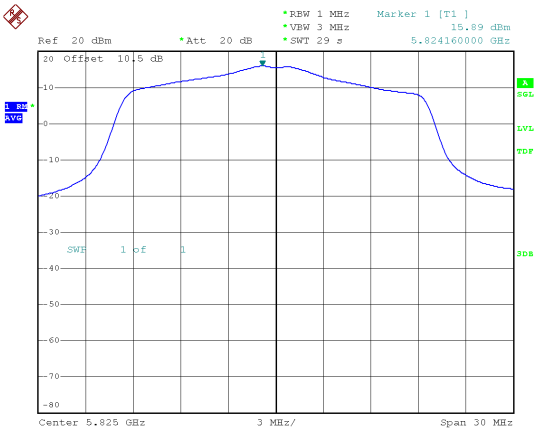
Date: 6.JAN.2025 11:37:46

CH165



Date: 3.JAN.2025 13:34:53

CH165

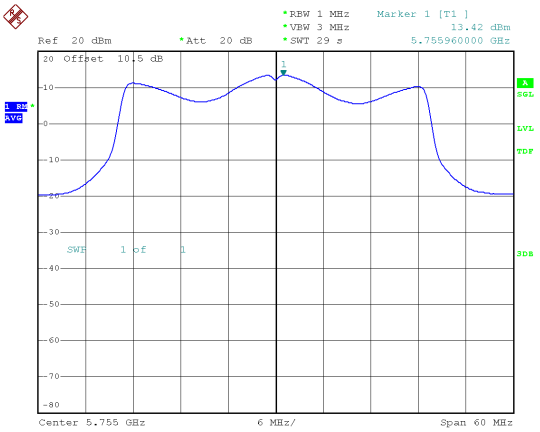


Date: 6.JAN.2025 11:41:49

ANT D

Modulation Type: 802.11be EHT40 (14.6Mbps)

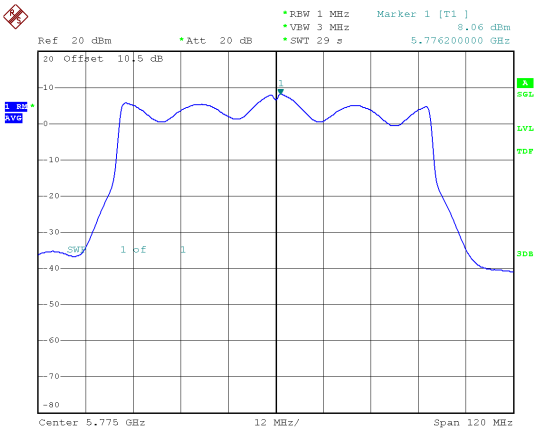
CH151



Date: 6.JAN.2025 14:41:54

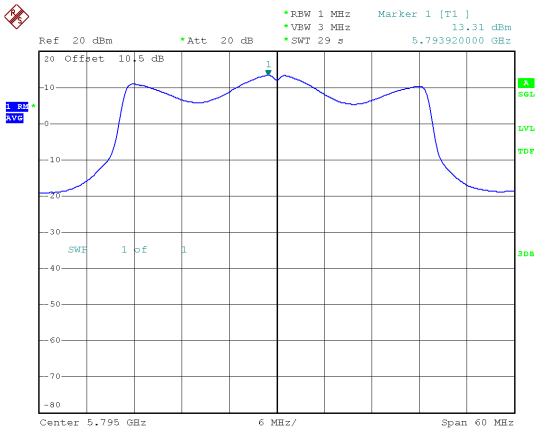
Modulation Type: 802.11be EHT80 (30.6Mbps)

CH155



Date: 8.MAR.2025 12:30:51

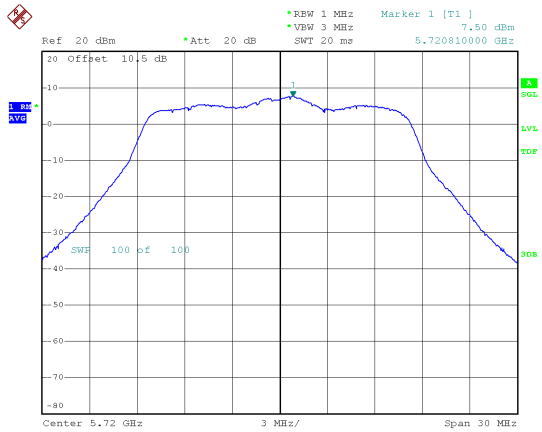
CH159



Date: 6.JAN.2025 14:46:04

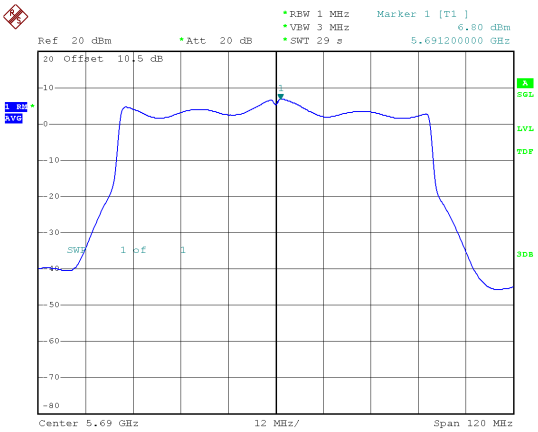
ANT A
Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



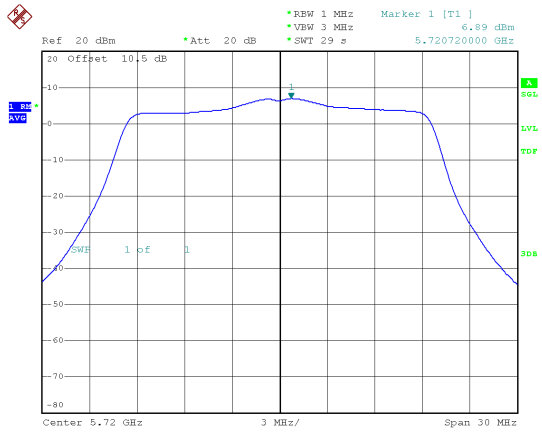
Date: 3.JAN.2025 11:55:44

Modulation Type: 802.11be EHT80 (30.6Mbps)
CH138



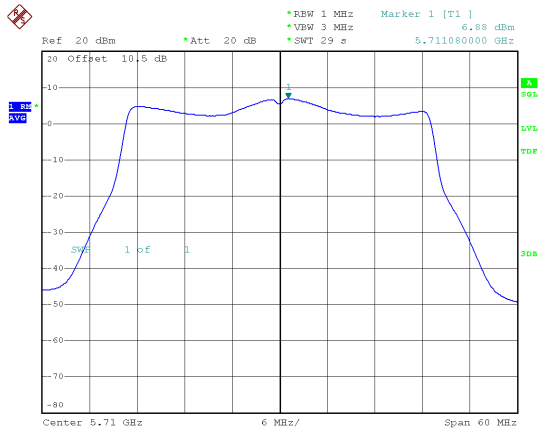
Date: 6.JAN.2025 15:54:28

Modulation Type: 802.11be EHT20 (7.3Mbps)
CH144



Date: 6.JAN.2025 11:08:05

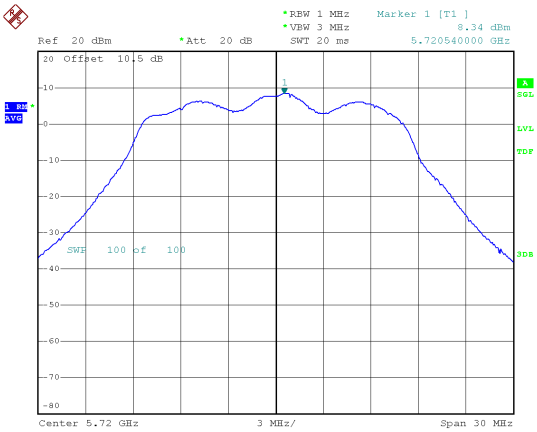
Modulation Type: 802.11be EHT40 (14.6Mbps)
CH142



Date: 6.JAN.2025 14:27:39

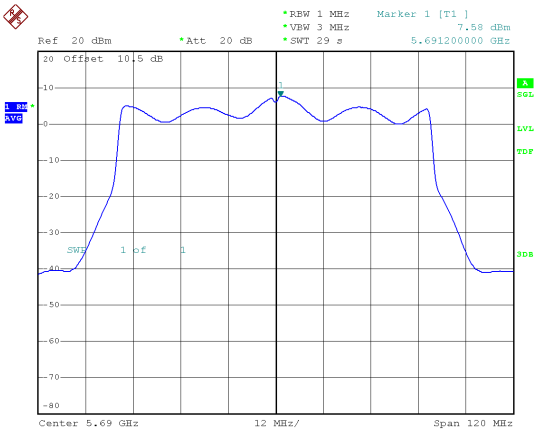
ANT D
Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



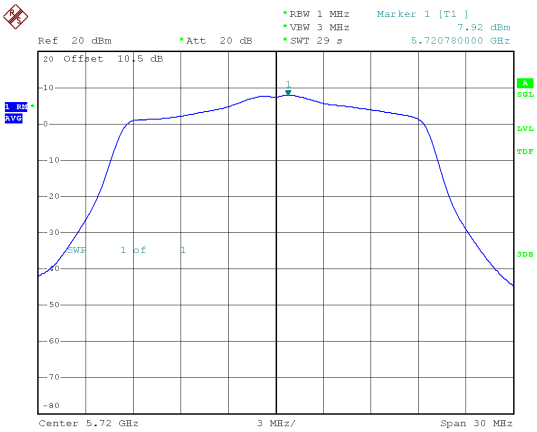
Date: 3.JAN.2025 11:56:03

Modulation Type: 802.11be EHT80 (30.6Mbps)
CH138



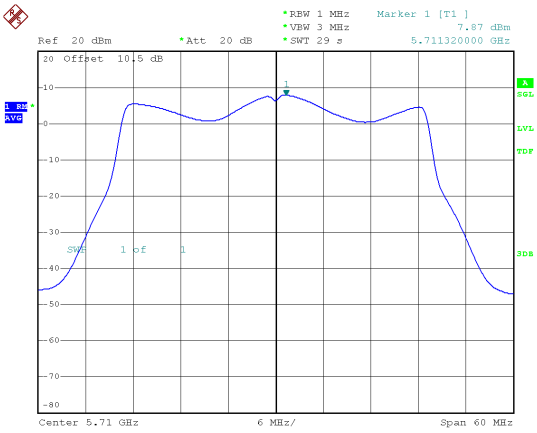
Date: 6.JAN.2025 15:57:29

Modulation Type: 802.11be EHT20 (7.3Mbps)
CH144



Date: 6.JAN.2025 11:08:49

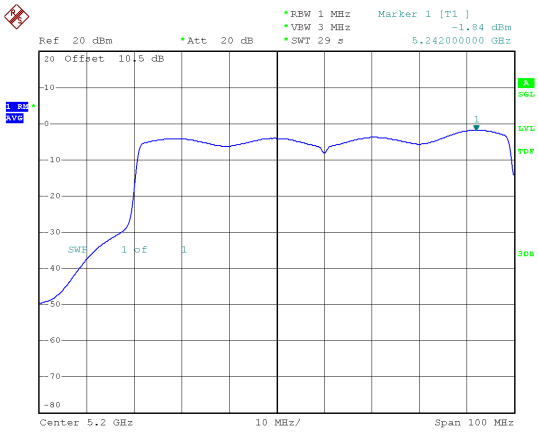
Modulation Type: 802.11be EHT40 (14.6Mbps)
CH142



Date: 6.JAN.2025 14:28:23

ANT A

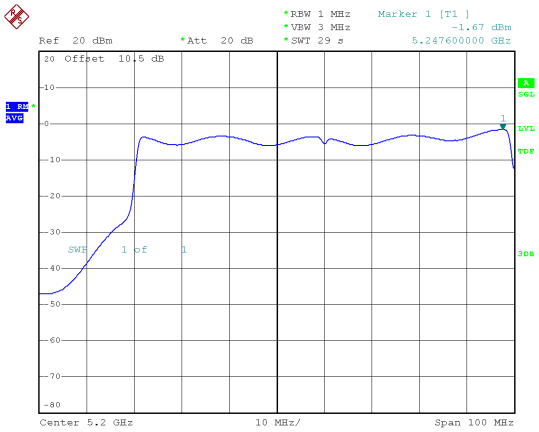
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



Date: 8.MAR.2025 12:39:59

ANT D

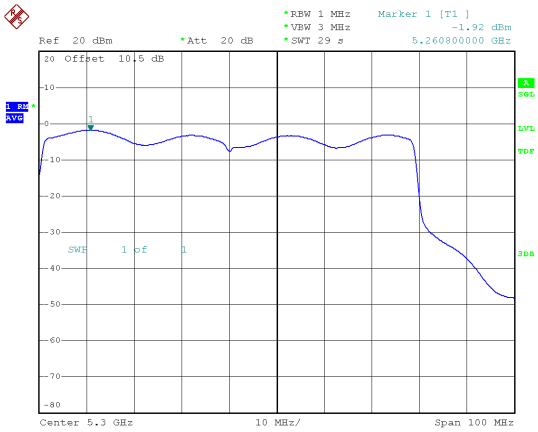
Within 5150-5250MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



Date: 8.MAR.2025 12:43:43

ANT A

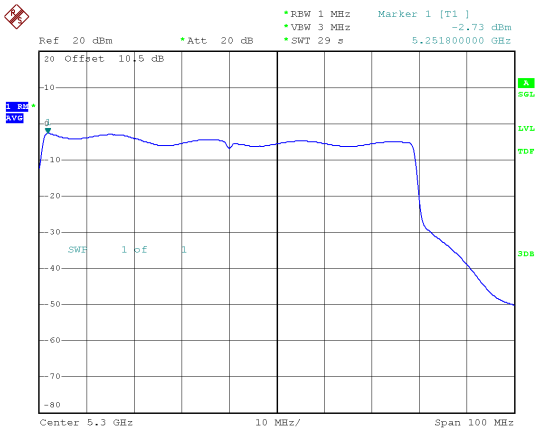
Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



Date: 8.MAR.2025 12:40:43

ANT D

Within 5250-5350MHz band, Straddle Channel
Modulation Type: 802.11be EHT160 (61.3Mbps)
CH50



Date: 8.MAR.2025 12:44:27

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