

APPENDIX REPORT

Project No.	SHT2403050101W	Radio Specification	WIFI 2.4G
Test sample No.	YPHT24030501001_01	Model No.	wAPG-5HaxD2HaxD
Start test date	2024-04-17	Finish date	2024-08-29
Temperature	24.5°C	Humidity	52%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zheo

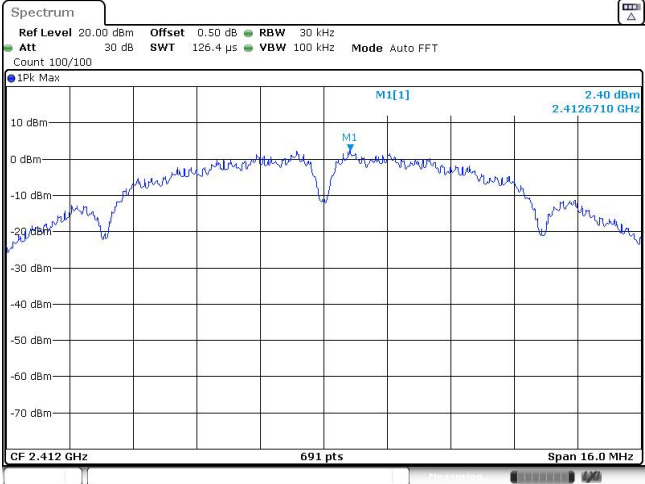
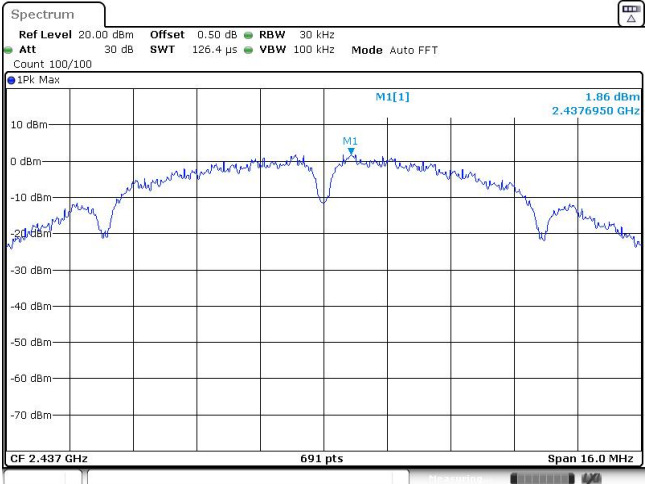
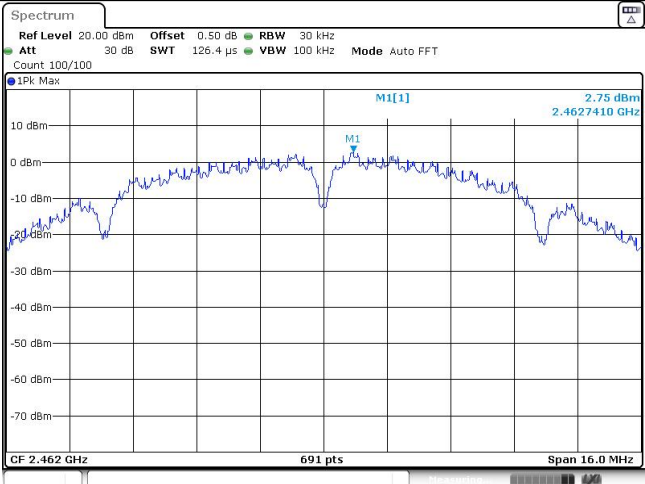
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions(coducted)	PASS

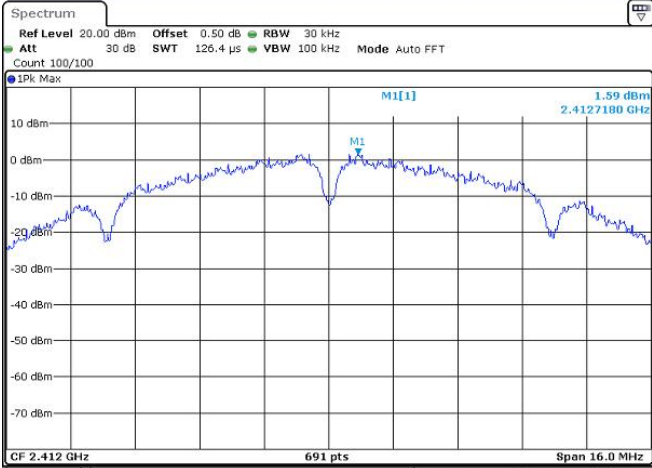
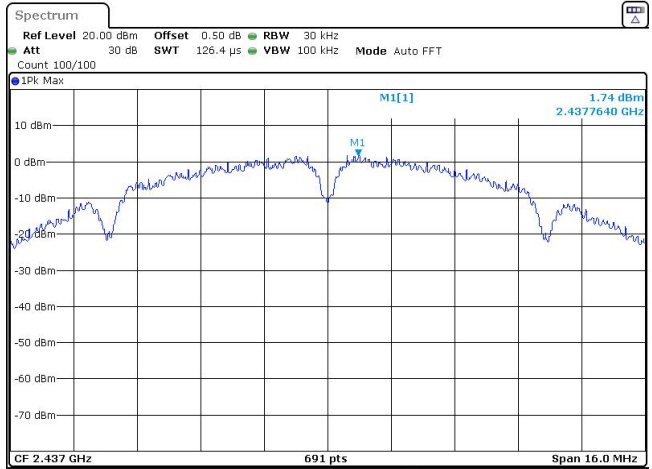
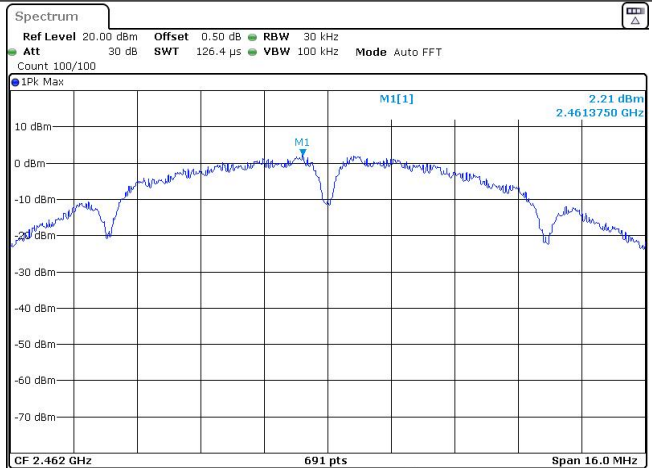
Appendix A: Conducted Peak Output Power

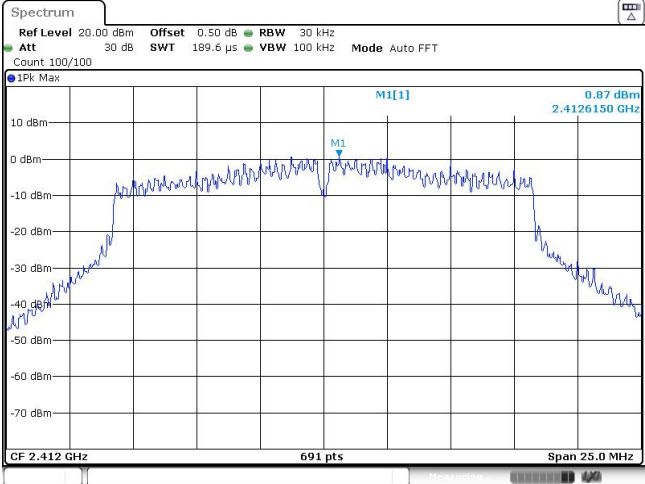
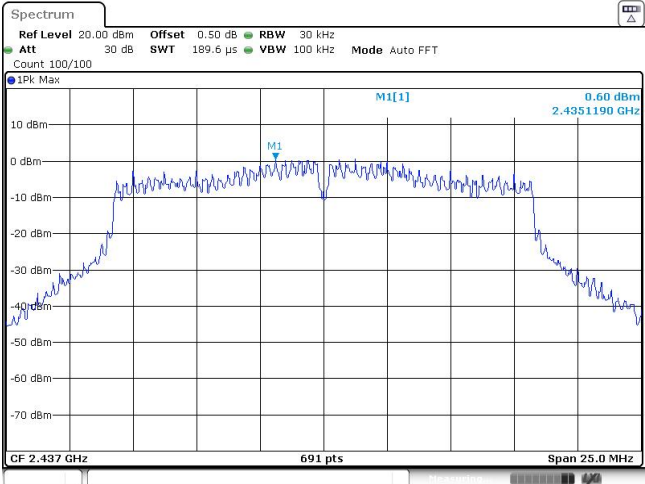
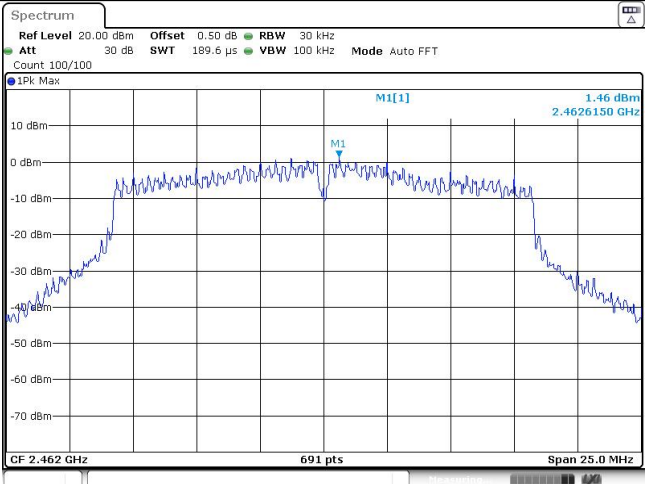
Type	Channel	Peak Output power (dBm)			Average Output power (dBm)			Limit (dBm)	Result
		Antenna 0	Antenna 1	Total	Antenna 0	Antenna 1	Total		
802.11b	01	19.05	19.05	-	19.01	18.83	-	≤29.10	Pass
	06	19.17	19.19	-	19.06	19.11	-		
	11	19.28	19.15	-	19.22	19.05	-		
802.11g	01	23.14	23.13	-	23.02	23.01	-	≤29.10	Pass
	06	23.19	23.03	-	23.11	22.89	-		
	11	23.41	22.96	-	23.31	22.76	-		
802.11n (HT20)	01	20.25	21.28	23.81	20.15	21.07	23.64	≤29.10	Pass
	06	23.50	22.85	26.22	23.36	22.71	26.06		
	11	20.11	21.00	23.59	20.01	20.85	23.46		
802.11n (ax20)	01	23.70	23.23	26.48	23.55	22.12	25.90	≤29.10	Pass
	06	23.94	23.95	26.96	23.74	22.83	26.32		
	11	23.93	23.17	26.58	23.73	22.07	25.99		
802.11n (HT40)	03	23.83	23.53	26.66	23.83	23.33	26.60	≤29.10	Pass
	06	23.90	23.37	26.67	23.73	23.16	26.46		
	09	23.98	23.36	26.72	23.77	23.21	26.51		
802.11n (ax40)	03	23.54	23.10	26.34	22.36	22.89	25.64	≤29.10	Pass
	06	23.70	23.76	26.74	22.55	22.55	25.56		
	09	23.76	23.94	26.86	22.65	22.71	25.69		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)		Total Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
		Antenna 0	Antenna 1			
802.11b	01	2.40	1.59	-	≤7.10	Pass
	06	1.86	1.74	-		
	11	2.75	2.21	-		
802.11g	01	0.87	0.39	-	≤7.10	Pass
	06	0.60	1.29	-		
	11	1.46	0.81	-		
802.11n(HT20)	01	-2.00	-0.81	1.65	≤4.10	Pass
	06	1.29	0.54	3.94		
	11	-2.01	-0.70	1.70		
802.11n(ax20)	01	0.55	-0.92	2.89	≤4.10	Pass
	06	1.08	-1.29	3.07		
	11	1.25	0.08	3.71		
802.11n(HT40)	03	-1.19	-2.49	1.22	≤4.10	Pass
	06	-1.29	-0.85	1.95		
	09	-1.58	-2.30	1.09		
802.11n(ax40)	03	-4.10	-3.20	-0.62	≤4.10	Pass
	06	-3.70	-4.77	-1.19		
	09	-3.32	-3.66	-0.48		

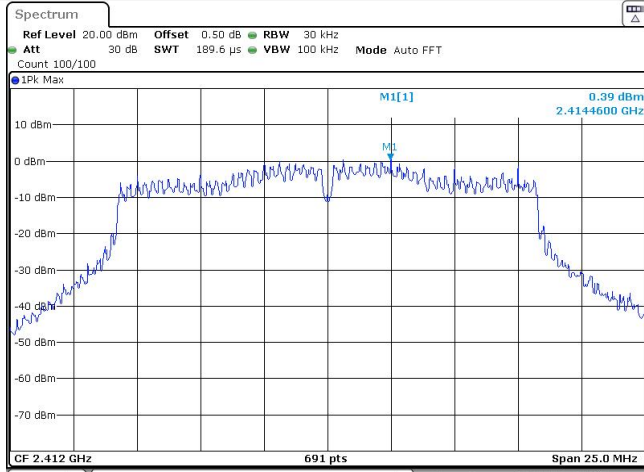
802.11 b		Antenna 0
CH01	 <p>Date: 23 APR 2024 11:21:56</p>	
CH06	 <p>Date: 23 APR 2024 11:23:22</p>	
CH11	 <p>Date: 23 APR 2024 11:24:47</p>	

802.11 b		Antenna 1
CH01	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] 1.59 dBm 2.4127180 GHz</p> <p>CF 2.412 GHz 691 pts Span 16.0 MHz</p> <p>Date: 23 APR 2024 11:25:59</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] 1.74 dBm 2.4377640 GHz</p> <p>CF 2.437 GHz 691 pts Span 16.0 MHz</p> <p>Date: 23 APR 2024 11:27:20</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] 2.21 dBm 2.4613750 GHz</p> <p>CF 2.462 GHz 691 pts Span 16.0 MHz</p> <p>Date: 23 APR 2024 11:28:21</p>	

802.11 g		Antenna 0
CH01	 <p>Date: 22 APR 2024 18:58:22</p>	
CH06	 <p>Date: 22 APR 2024 18:59:55</p>	
CH11	 <p>Date: 22 APR 2024 19:01:25</p>	

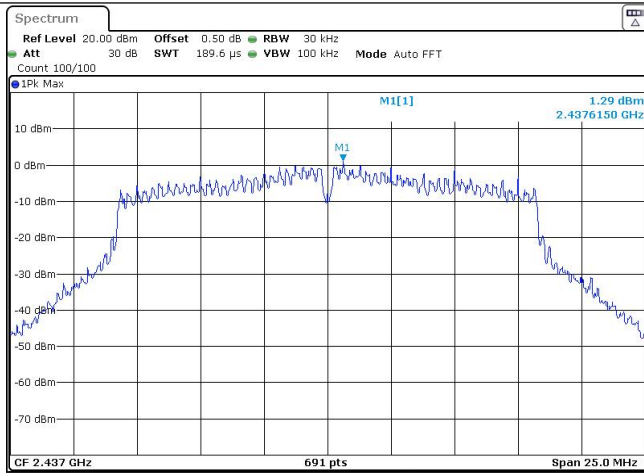
802.11 g Antenna 1

CH01



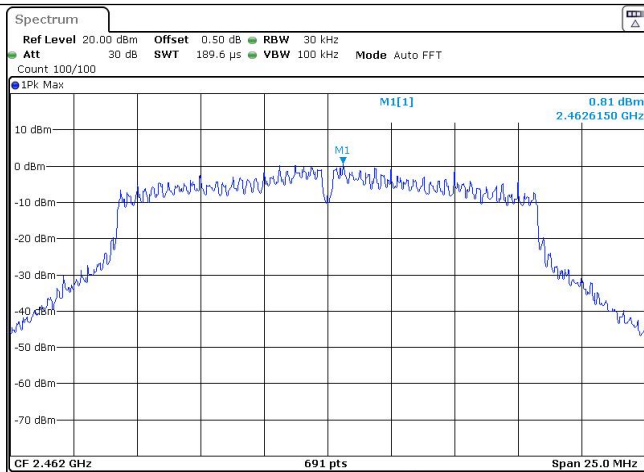
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CH06

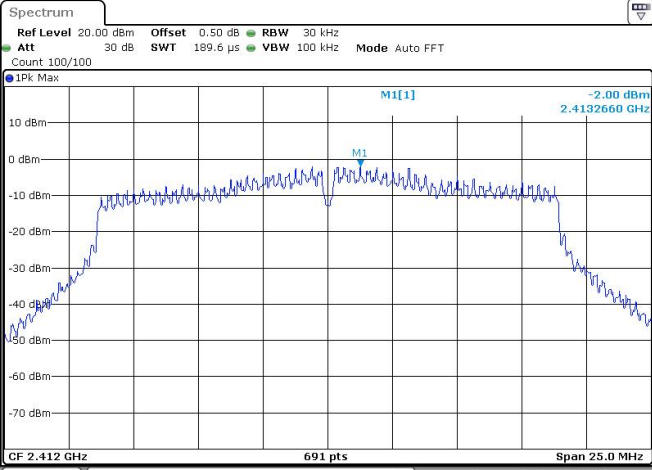
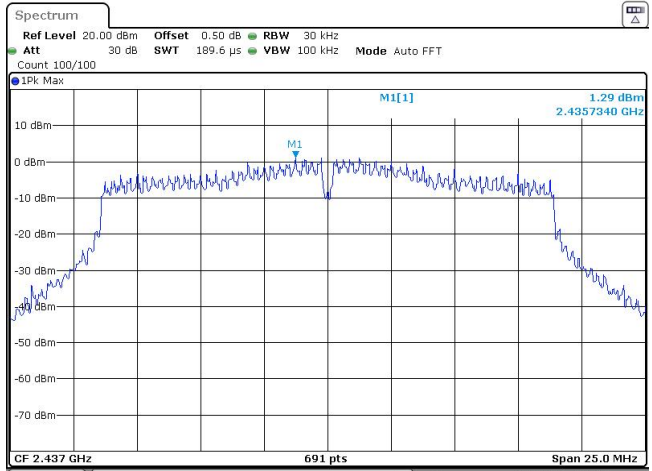
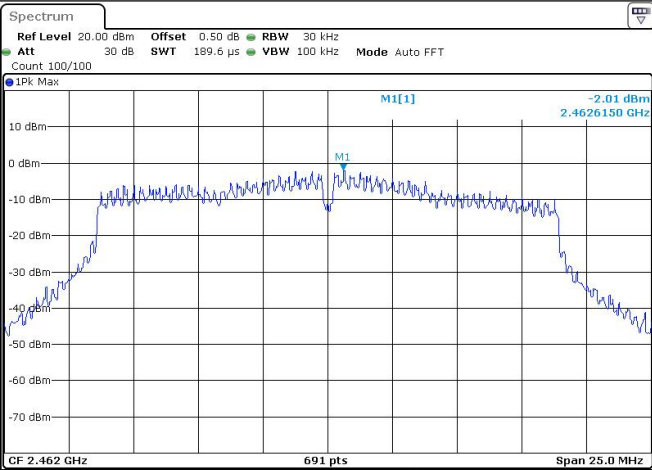


Date: 22 APR 2024 19:29:42

CH11



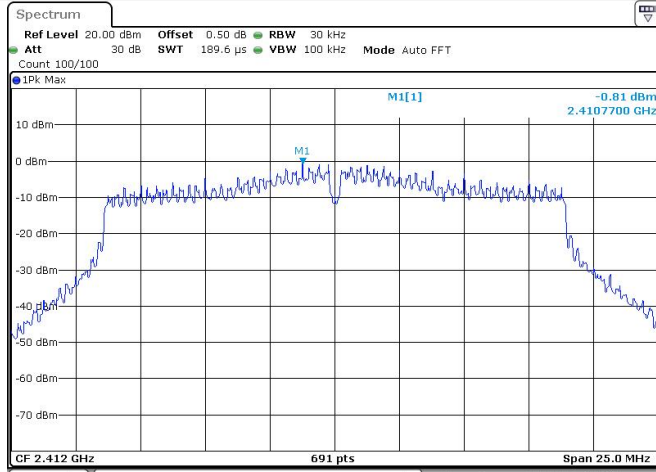
Date: 22 APR 2024 19:30:54

802.11 n(H20)		Antenna 0
CH01	 <p>Date: 29 AUG 2024 19:50:56</p>	
CH06	 <p>Date: 22 APR 2024 19:09:57</p>	
CH11	 <p>Date: 29 AUG 2024 19:52:30</p>	

802.11 n(H20)

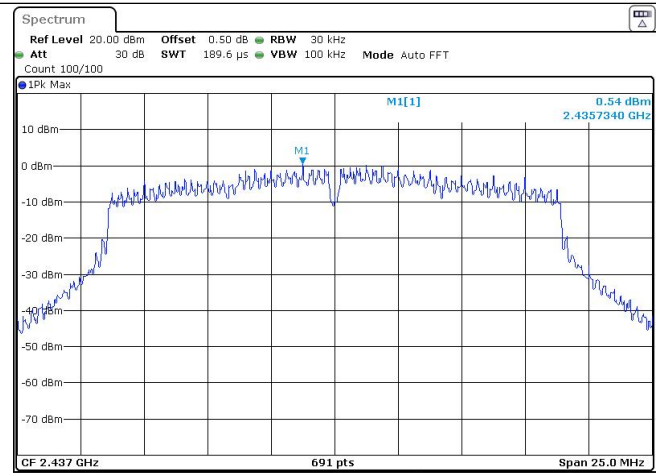
Antenna 1

CH01



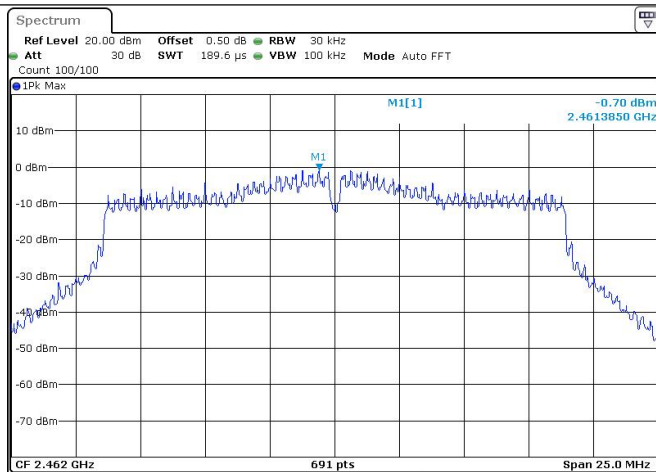
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CH06



Date: 22 APR 2024 19:33:34

CH11

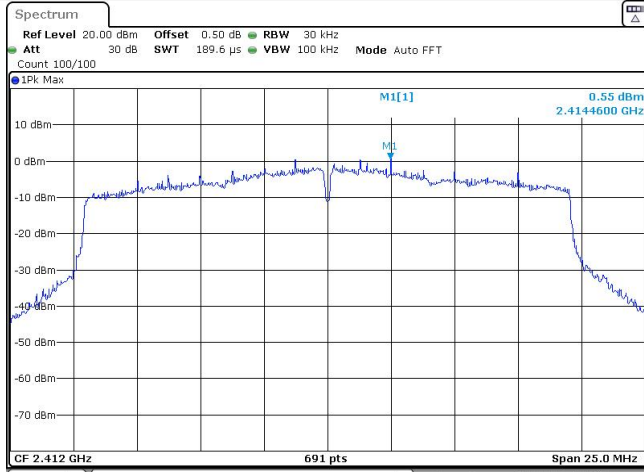


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802.11 (ax20)

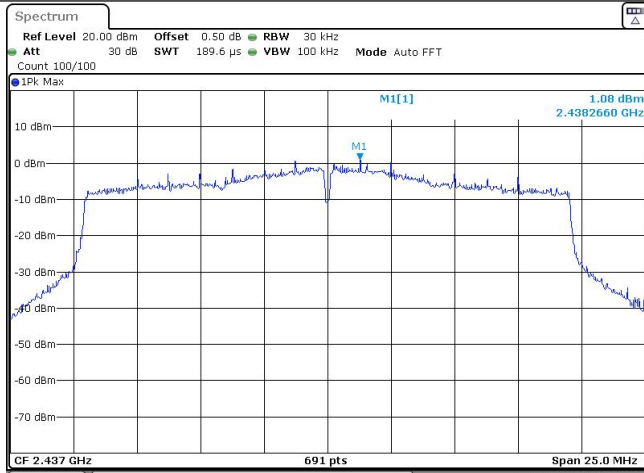
Antenna 0

CH01



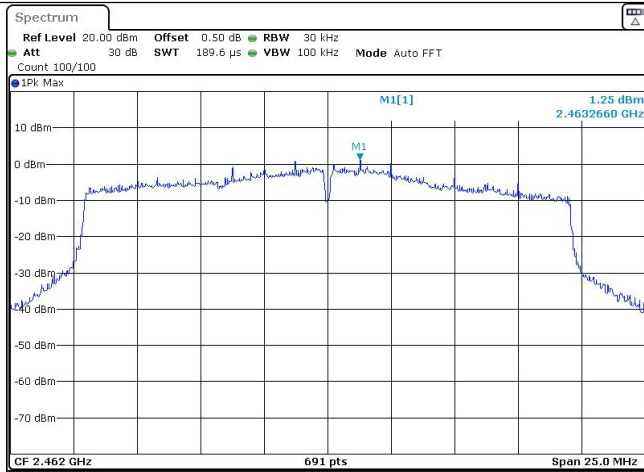
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CH06



Date: 23 APR 2024 11:41:12

CH11

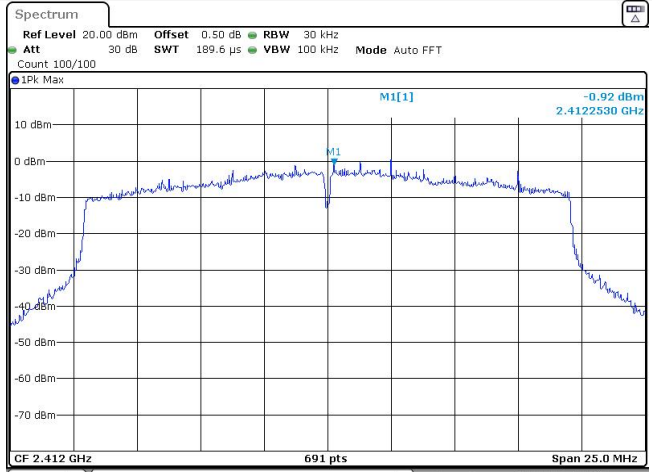


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802.11 (ax20)

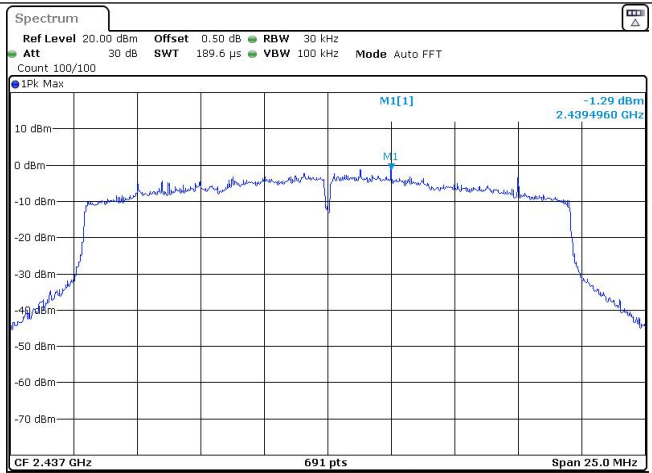
Antenna 1

CH01



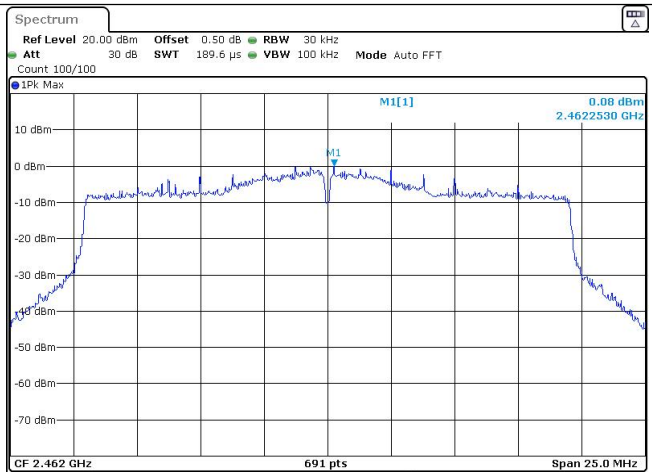
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CH06

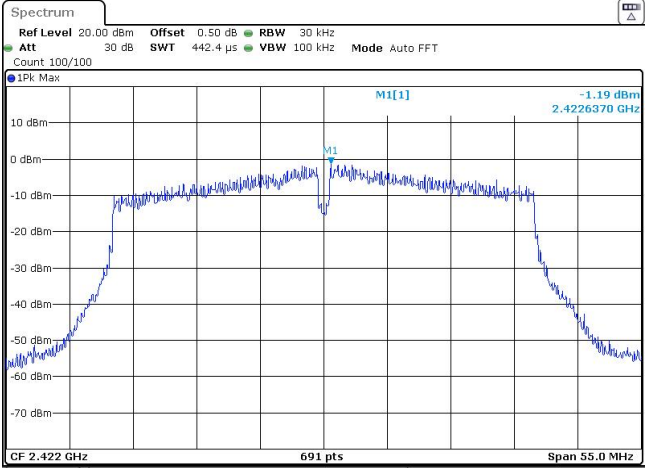
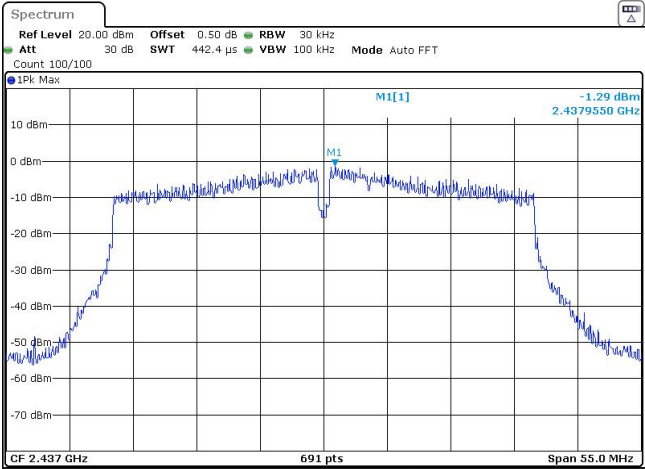
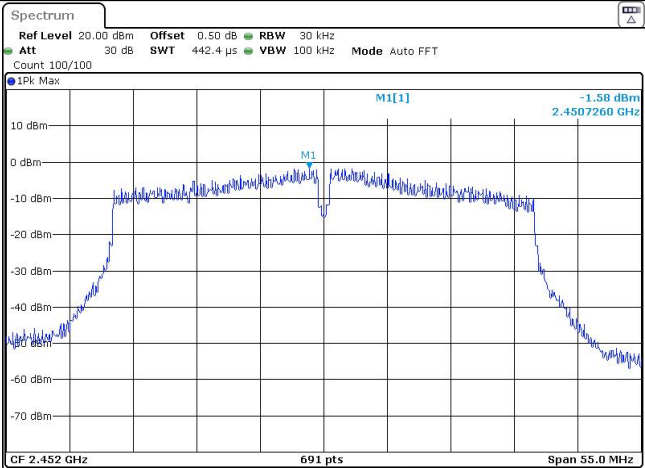


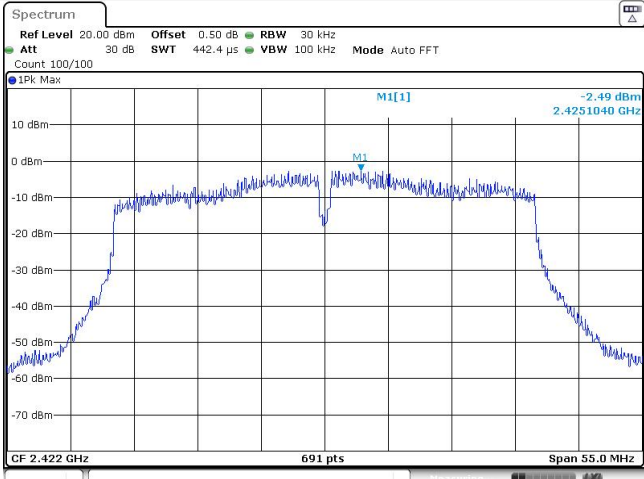
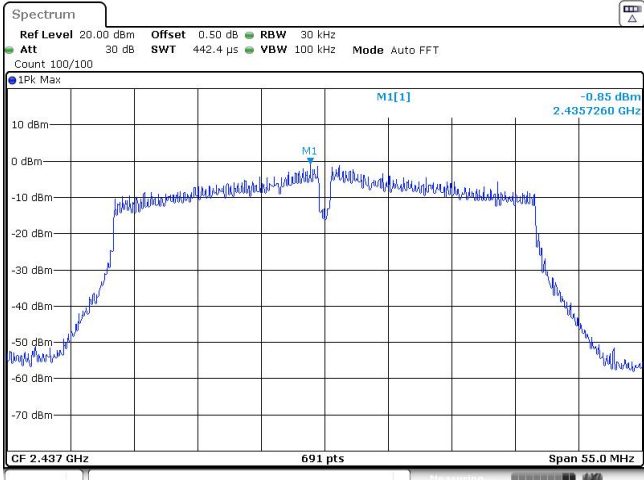
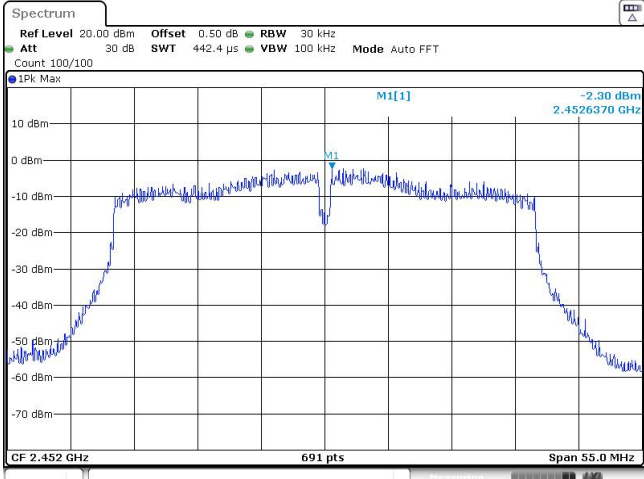
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CH11



Date: 23 APR 2024 13:30:55

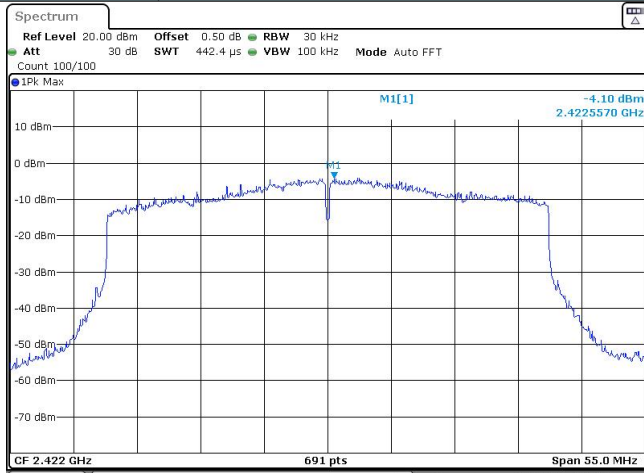
802.11 n(H40)		Antenna 0
CH03	 <p>Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 442.4 μs VBW 100 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -1.19 dBm 2.4226370 GHz CF 2.422 GHz 691 pts Span 55.0 MHz Date: 22 APR 2024 19:13:29</p>	
CH06	 <p>Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 442.4 μs VBW 100 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -1.29 dBm 2.4379550 GHz CF 2.437 GHz 691 pts Span 55.0 MHz Date: 22 APR 2024 19:15:24</p>	
CH09	 <p>Ref Level 20.00 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 442.4 μs VBW 100 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -1.58 dBm 2.4507260 GHz CF 2.452 GHz 691 pts Span 55.0 MHz Date: 22 APR 2024 19:16:55</p>	

802.11 n(H40)	Antenna 1
CH03	 <p>Date: 22 APR 2024 19:25:59</p>
CH06	 <p>Date: 22 APR 2024 19:27:10</p>
CH09	 <p>Date: 22 APR 2024 19:28:32</p>

802.11 (ax40)

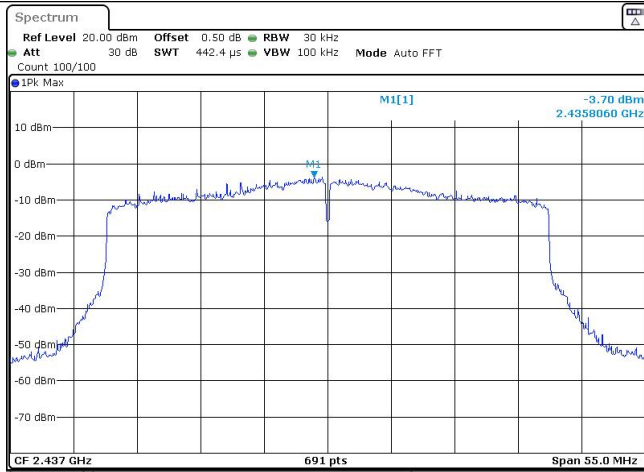
Antenna 0

CH03



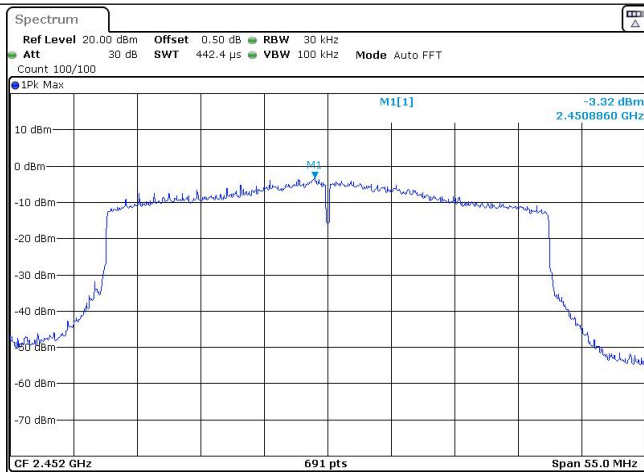
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CH06



Date: 23 APR 2024 11:50:36

CH09

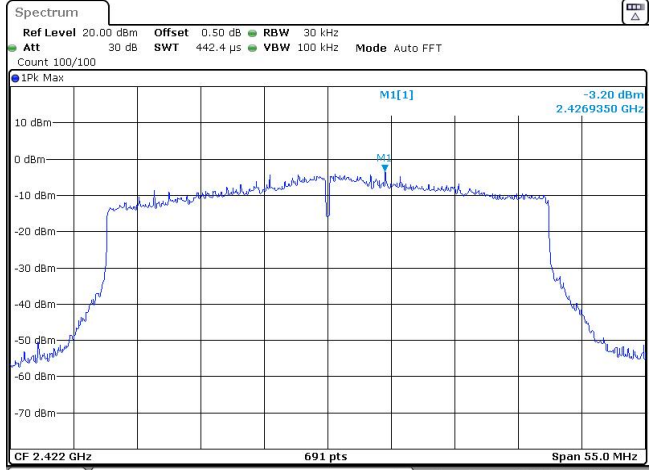


Date: 23 APR 2024 11:52:01

802.11 (ax40)

Antenna 1

CH03



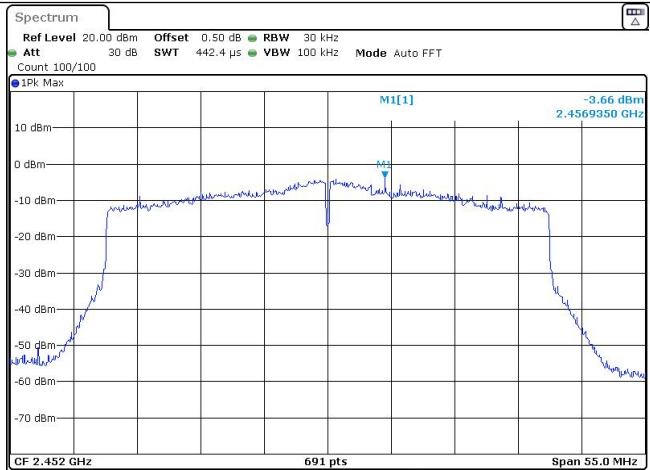
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CH06



Date: 23 APR 2024 13:29:19

CH09



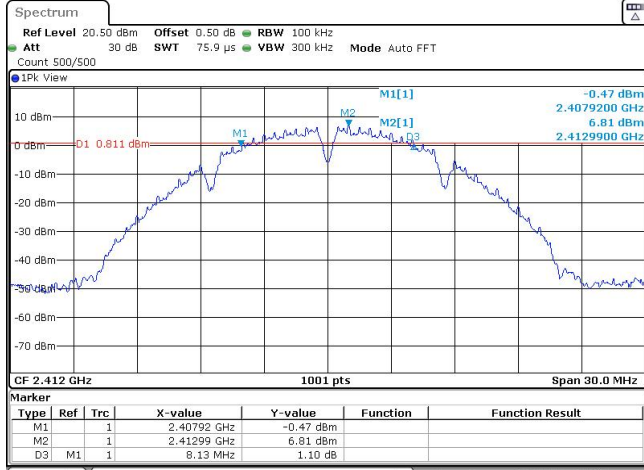
Date: 23 APR 2024 13:40:21

Appendix C: 6dB Bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	8.13	≥500	Pass
	06	8.13		
	11	8.10		
802.11g	01	11.61	≥500	Pass
	06	12.63		
	11	12.63		
802.11n(HT20)	01	12.66	≥500	Pass
	06	14.13		
	11	13.74		
802.11(ax20)	01	9.84	≥500	Pass
	06	13.08		
	11	11.73		
802.11n(HT40)	03	31.50	≥500	Pass
	06	31.44		
	09	27.66		
802.11(ax40)	03	33.96	≥500	Pass
	06	33.36		
	09	26.22		

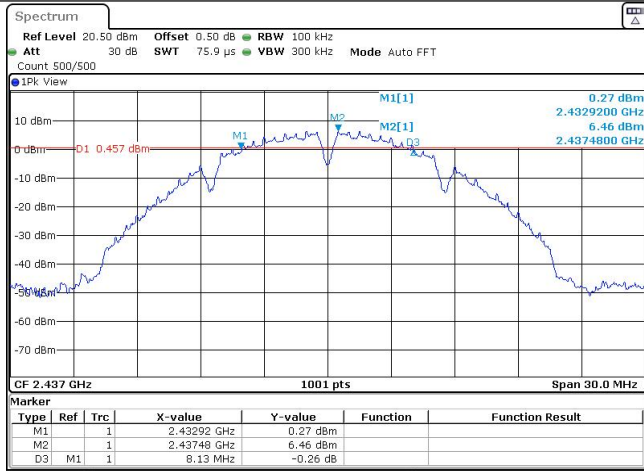
802.11 b

CH01



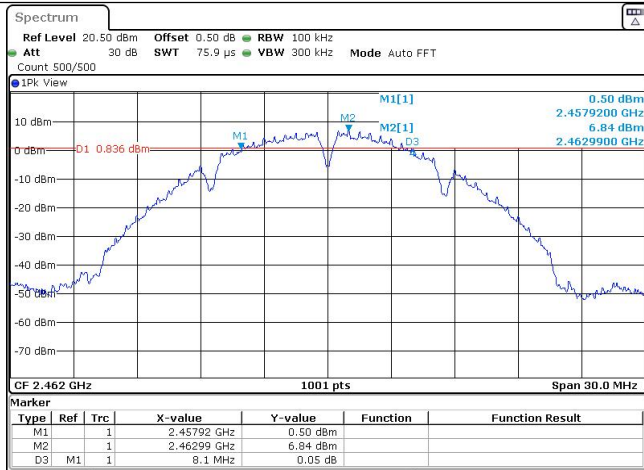
Date: 23 APR 2024 11:21:28

CH06



Date: 23 APR 2024 11:23:05

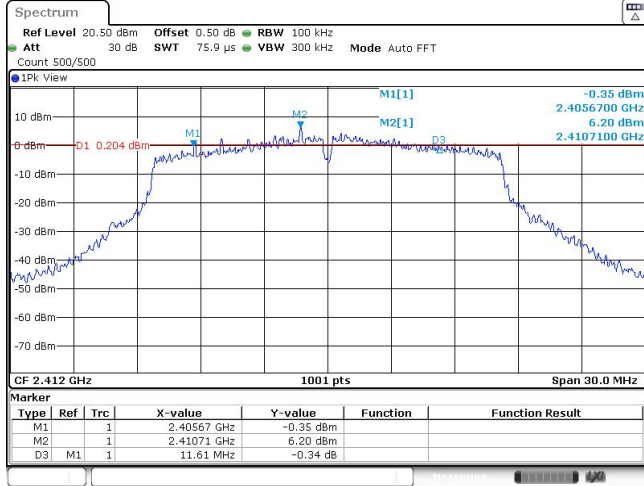
CH11



Date: 23 APR 2024 11:24:31

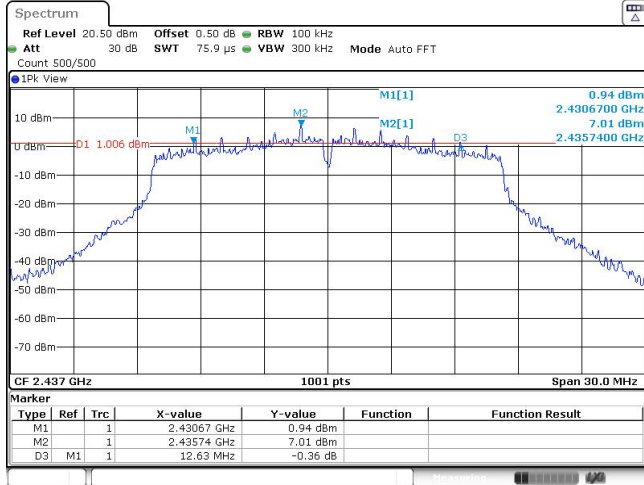
802.11 g

CH01



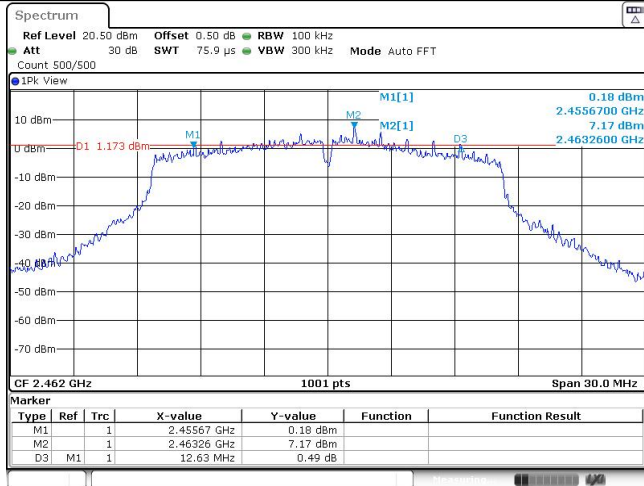
Date: 22 APR 2024 18:58:05

CH06



Date: 22 APR 2024 18:59:28

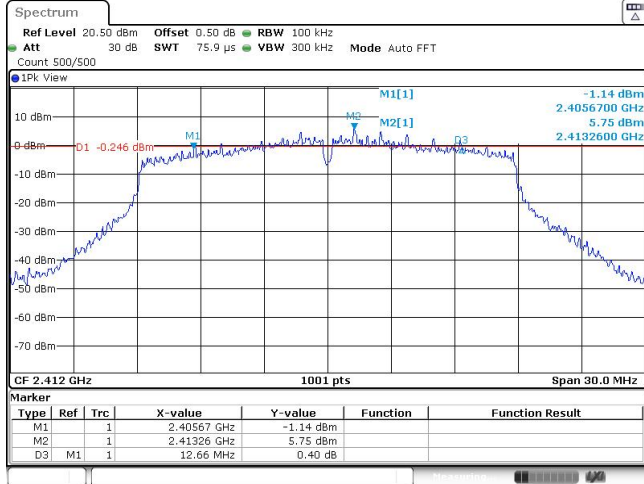
CH11



Date: 22 APR 2024 19:01:09

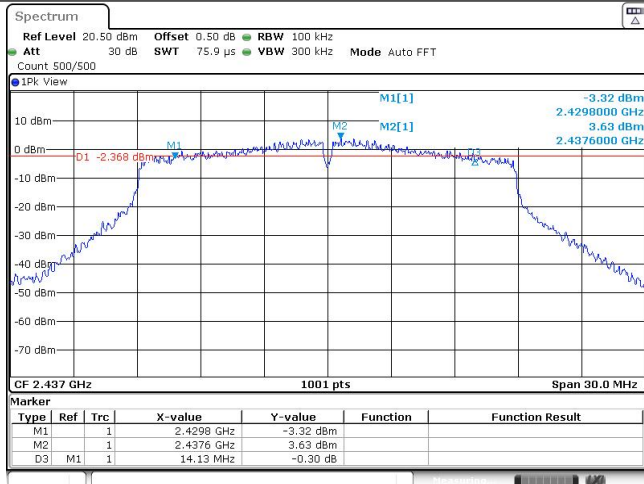
802.11n(HT20)

CH01



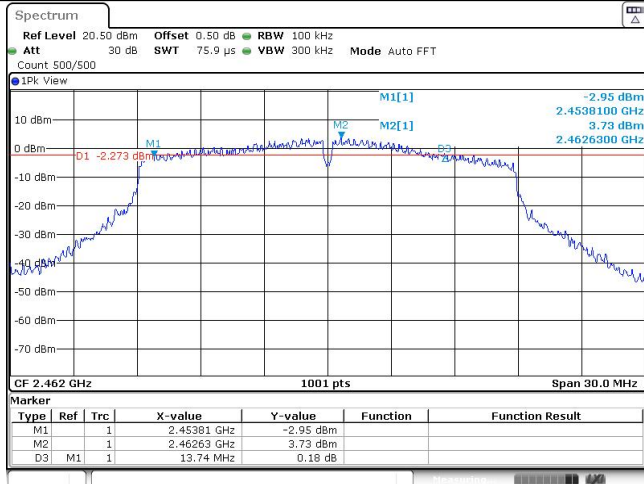
Date: 22 APR 2024 19:08:02

CH06



Date: 22 APR 2024 19:09:40

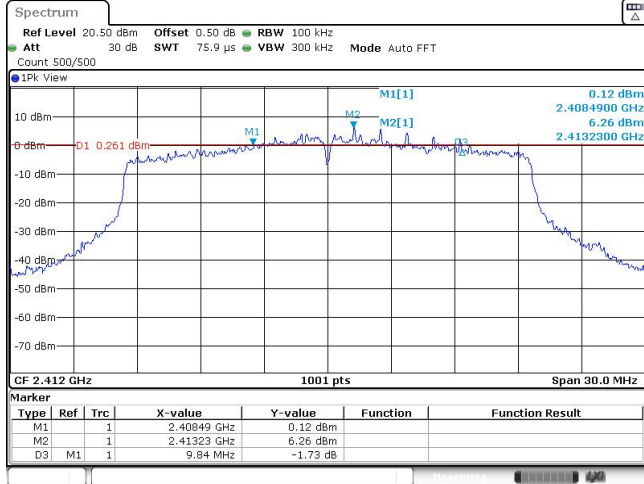
CH11



Date: 22 APR 2024 19:11:26

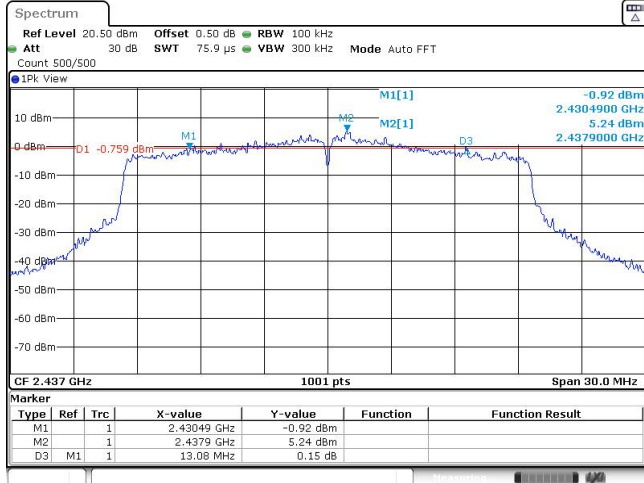
802.11(ax20)

CH01



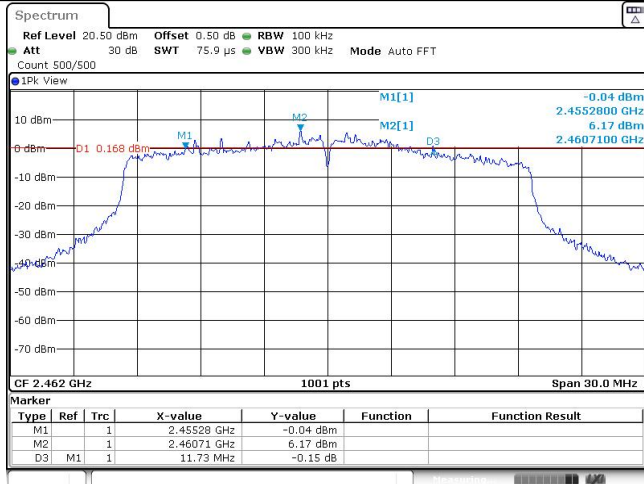
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CH06



Date: 23 APR 2024 11:40:56

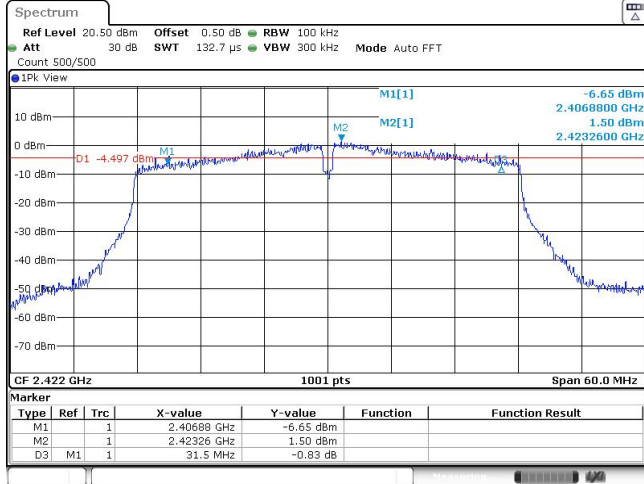
CH11



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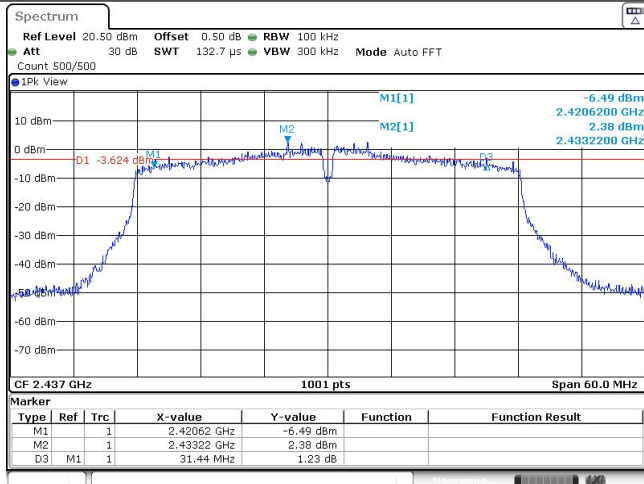
802.11n(HT40)

CH03



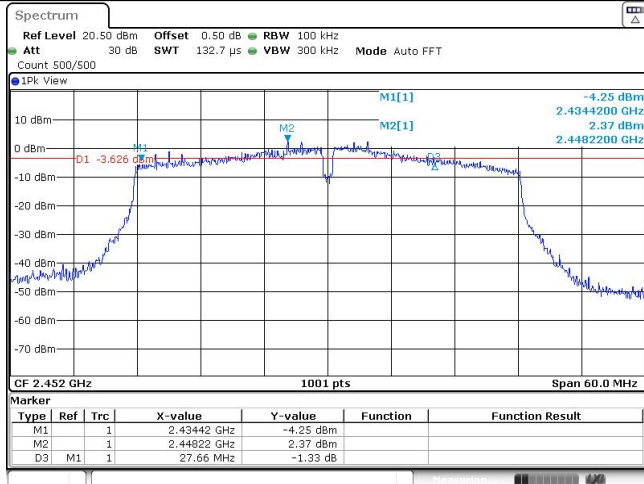
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CH06



Date: 22 APR 2024 19:15:07

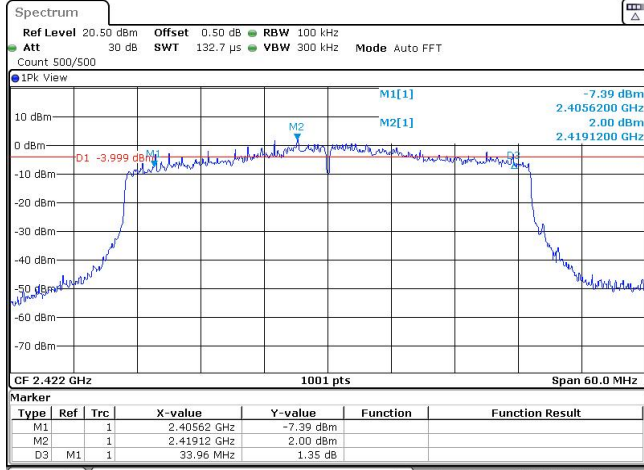
CH09



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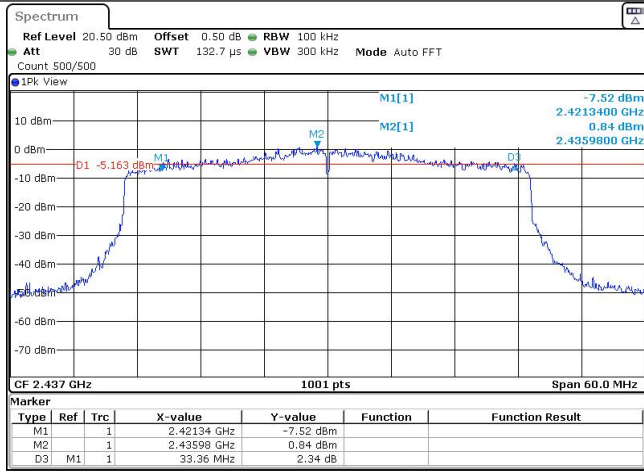
802.11(ax40)

CH03



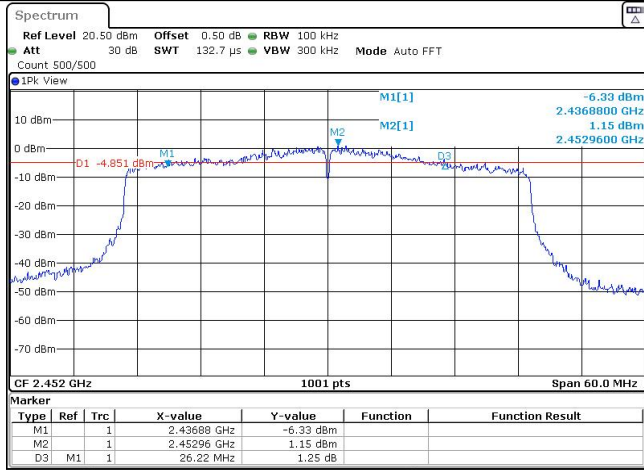
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CH06



Date: 23 APR 2024 11:50:20

CH09



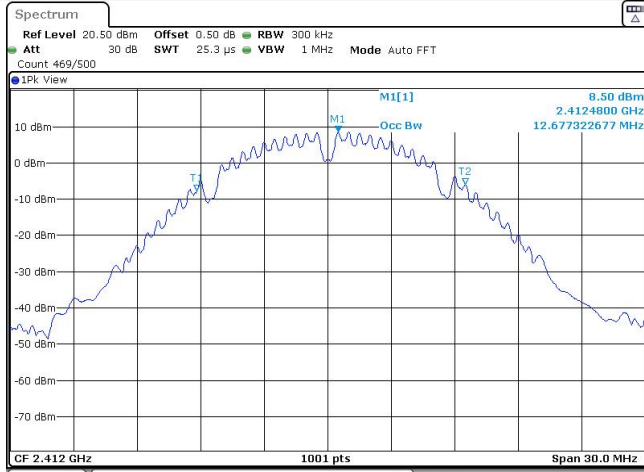
Date: 23 APR 2024 11:51:45

Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	12.68	-	Pass
	06	12.83		
	11	12.74		
802.11g	01	16.15	-	Pass
	06	16.18		
	11	16.09		
802.11n(HT20)	01	17.32	-	Pass
	06	17.32		
	11	17.29		
802.11(ax20)	01	18.64	-	Pass
	06	18.82		
	11	18.64		
802.11n(HT40)	03	35.31	-	Pass
	06	35.54		
	09	35.42		
802.11(ax40)	03	36.98	-	Pass
	06	37.16		
	09	37.04		

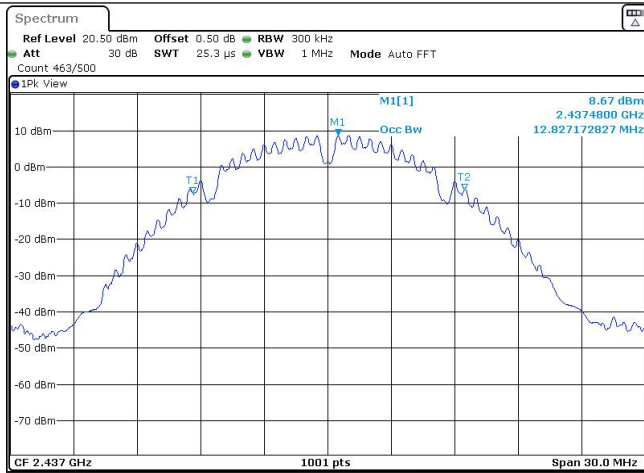
802.11 b

CH01



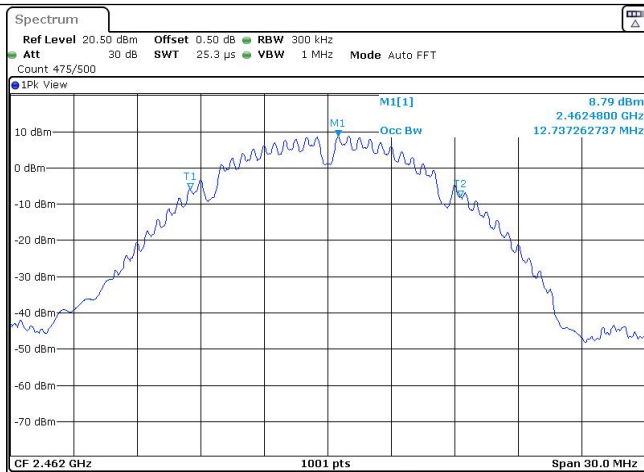
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CH06



Date: 23 APR 2024 11:23:11

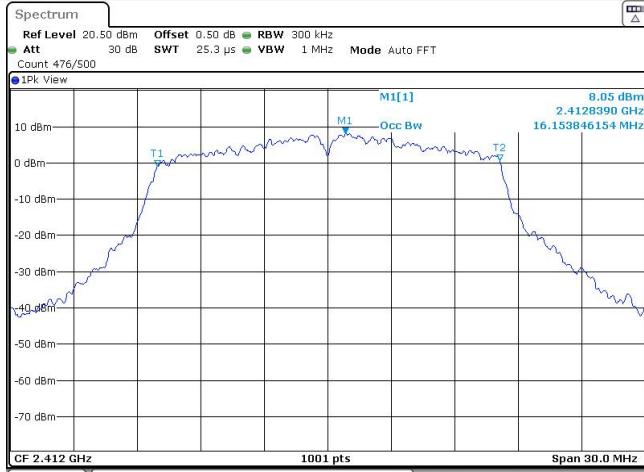
CH11



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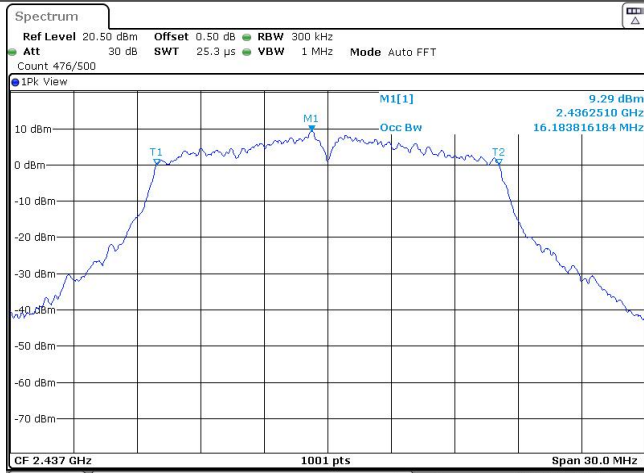
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CH01



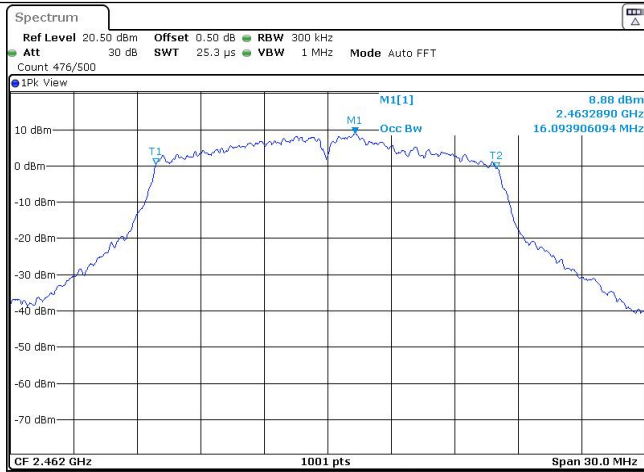
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CH06



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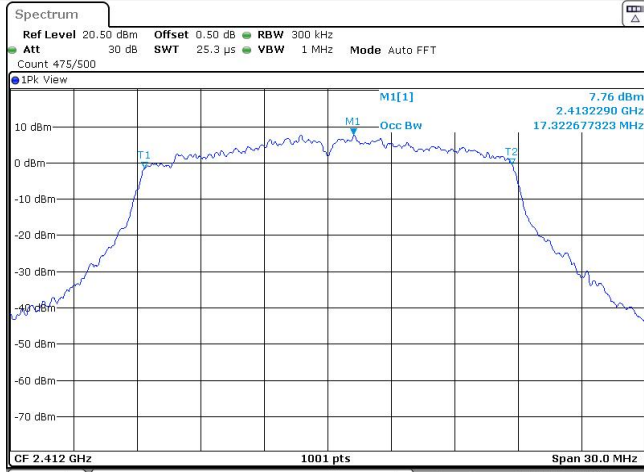
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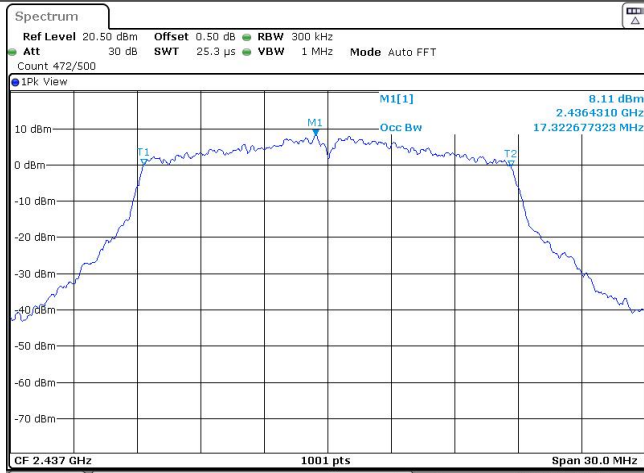
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CH01



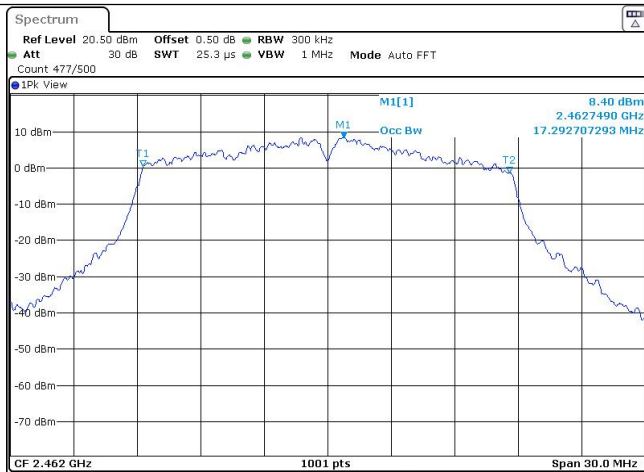
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CH06



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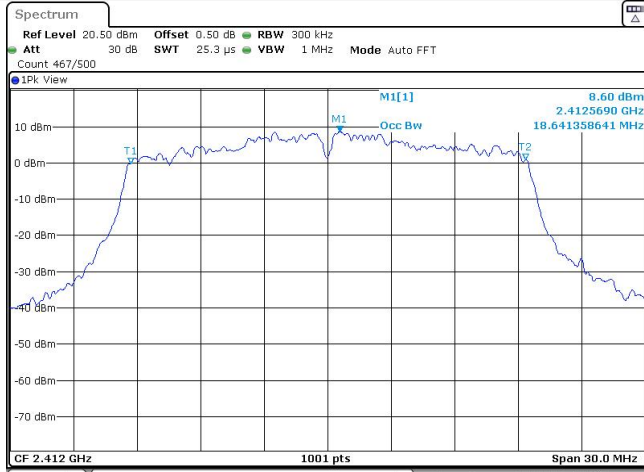
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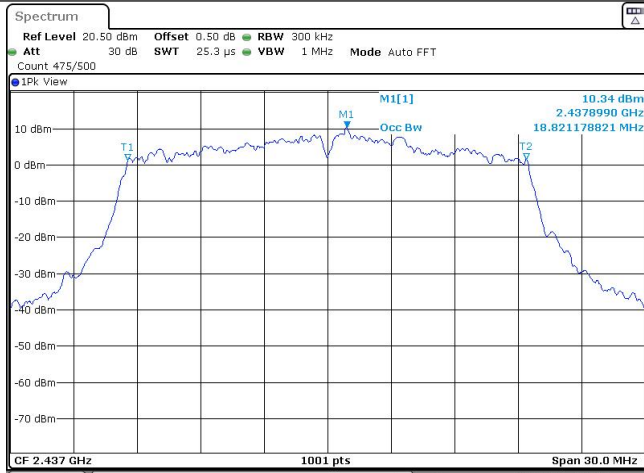
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CH01



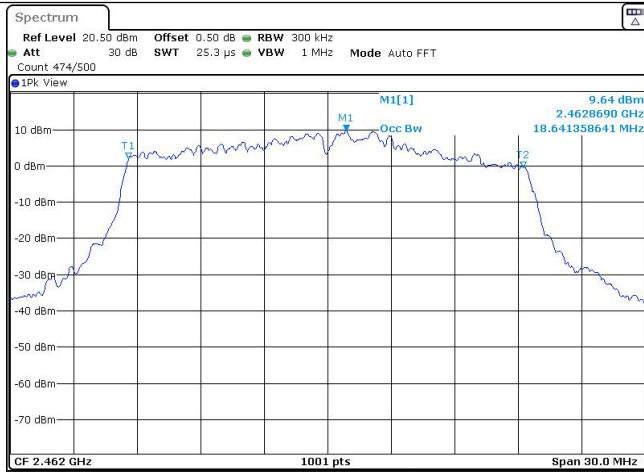
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CH06



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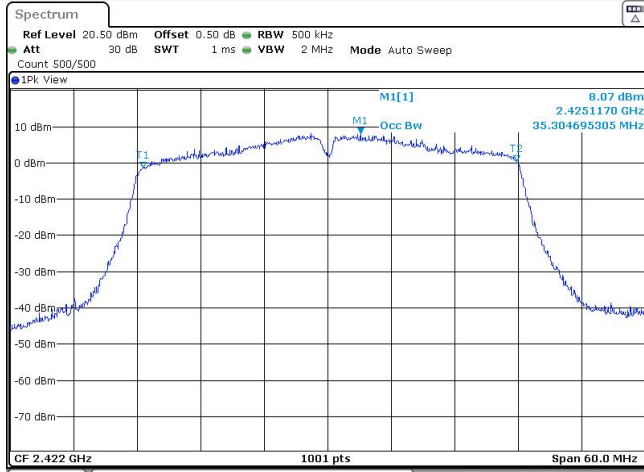
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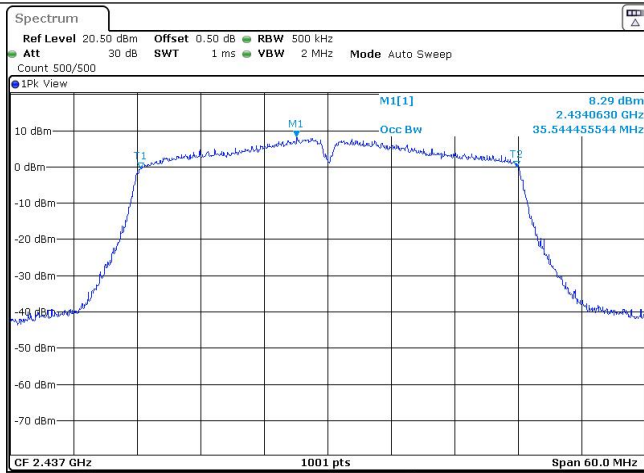
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CH03



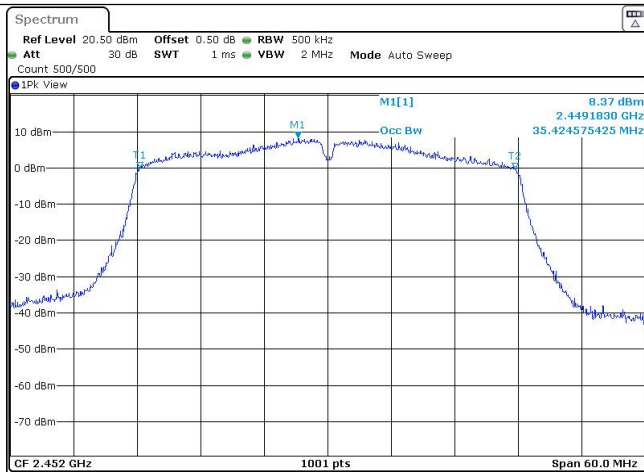
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CH06



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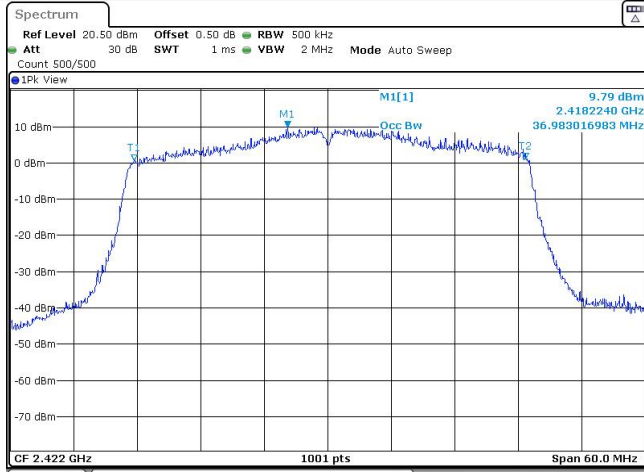
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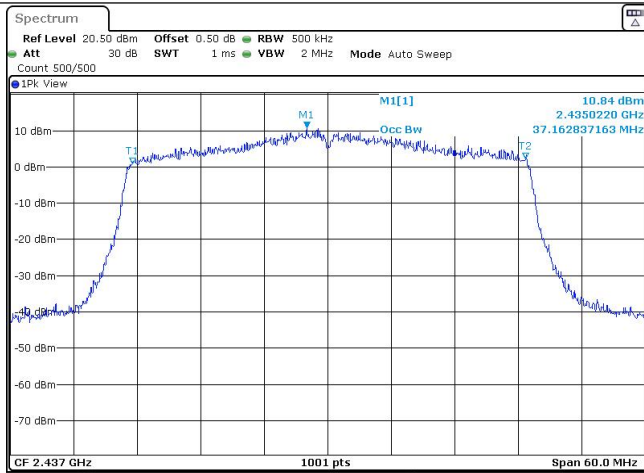
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CH03



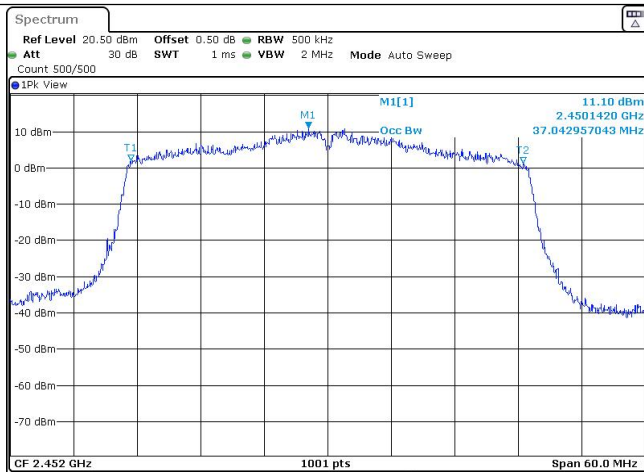
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CH06



Date: 23 APR 2024 11:50:25

CH09



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