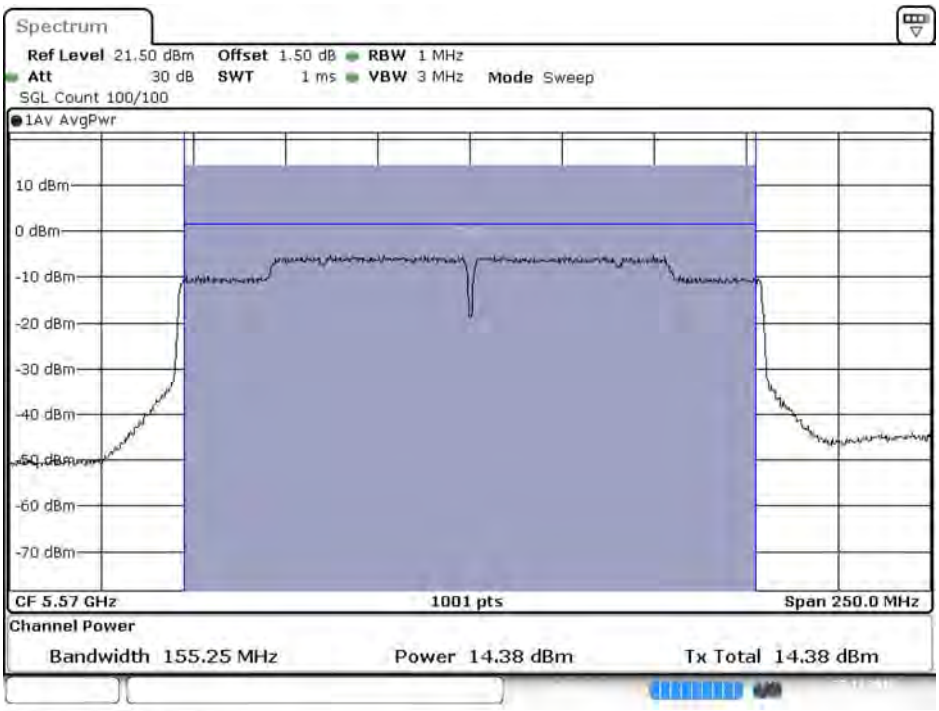
Maximum conducted output power:

Channel 114



Date: 27.NOV.2018 15:22:09

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL　　測 試 項 目 ：峰值發射功率
測 試 頻 道 ：--　　測 試 模 式 ：Mode 3: MIMO: 發射器 802.11ax-20BW
檢 測 器 ：峰值　　環 境 溫 度 ：21 ℃
測 試 日 期 ：108 年 03 月 25 日　　環 境 濕 度 ：53 %

Chain A

Cable loss=1.5dB		Maximum conducted output power											
Channel No.	Frequency (MHz)	Data Rate											
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
36	5180	17.98	--	--	--	--	--	--	--	--	--	--	--
44	5220	17.97	17.92	17.88	17.84	17.79	17.75	17.70	17.66	17.62	17.57	17.53	17.48
48	5240	17.96	--	--	--	--	--	--	--	--	--	--	--
52	5260	17.96	--	--	--	--	--	--	--	--	--	--	--
60	5300	17.97	17.93	17.86	17.81	17.77	17.72	17.67	17.61	17.56	17.51	17.46	17.41
64	5320	17.99	--	--	--	--	--	--	--	--	--	--	--
100	5500	17.98	--	--	--	--	--	--	--	--	--	--	--
116	5580	17.97	17.92	17.86	17.81	17.77	17.73	17.67	17.62	17.58	17.53	17.48	17.43
140	5700	15.90	--	--	--	--	--	--	--	--	--	--	--
144(U-NII-2C)	5720	16.76	16.71	16.66	16.61	16.57	16.52	16.47	16.42	16.38	16.33	16.28	16.23
144(U-NII-3)	5720	11.63	11.58	11.52	11.47	11.42	11.38	11.32	11.27	11.22	11.17	11.12	11.07
149	5745	17.98	--	--	--	--	--	--	--	--	--	--	--
157	5785	17.97	17.92	17.86	17.83	17.77	17.71	17.67	17.62	17.57	17.51	17.47	17.44
165	5825	17.97	--	--	--	--	--	--	--	--	--	--	--

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1.5dB		Maximum conducted output power											
Channel No.	Frequency (MHz)	Data Rate											
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
36	5180	17.95	--	--	--	--	--	--	--	--	--	--	--
44	5220	17.96	17.91	17.87	17.82	17.78	17.73	17.69	17.64	17.60	17.55	17.50	17.46
48	5240	17.99	--	--	--	--	--	--	--	--	--	--	--
52	5260	17.98	--	--	--	--	--	--	--	--	--	--	--
60	5300	17.96	17.92	17.87	17.81	17.77	17.72	17.67	17.62	17.57	17.52	17.47	17.43
64	5320	17.95	--	--	--	--	--	--	--	--	--	--	--
100	5500	17.97	--	--	--	--	--	--	--	--	--	--	--
116	5580	17.94	17.89	17.83	17.79	17.72	17.68	17.62	17.57	17.52	17.46	17.41	17.36
140	5700	15.92	--	--	--	--	--	--	--	--	--	--	--
144(U-NII-2C)	5720	16.77	16.71	16.67	16.62	16.58	16.53	16.48	16.44	16.39	16.34	16.30	16.25
144(U-NII-3)	5720	11.65	11.60	11.55	11.51	11.47	11.42	11.38	11.33	11.29	11.24	11.19	11.15
149	5745	17.96	--	--	--	--	--	--	--	--	--	--	--
157	5785	17.98	17.94	17.89	17.82	17.77	17.72	17.67	17.61	17.56	17.50	17.45	17.40
165	5825	17.95	--	--	--	--	--	--	--	--	--	--	--

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

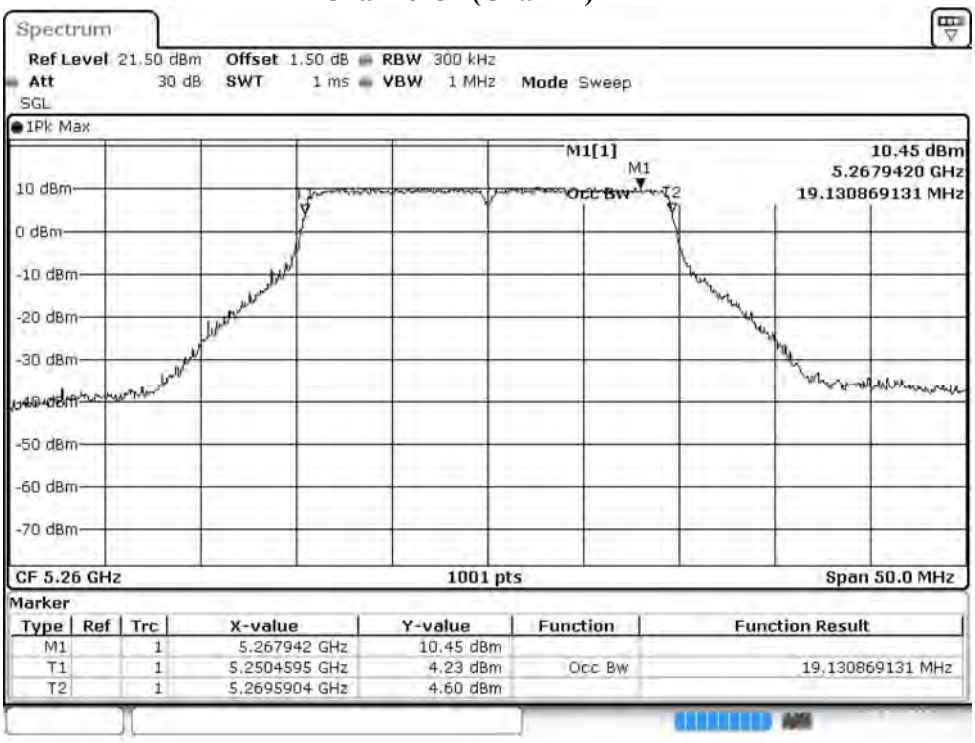
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
36	5180	--	17.98	17.95	20.98	24	--
44	5220	--	17.97	17.96	20.98	24	--
48	5240	--	17.96	17.99	20.99	24	--
52	5260	19.131	17.96	17.98	20.98	24	23.82
60	5300	19.181	17.97	17.96	20.98	24	23.83
64	5320	19.181	17.99	17.95	20.98	24	23.83
100	5500	19.131	17.98	17.97	20.99	24	23.82
116	5580	19.181	17.97	17.94	20.97	24	23.83
140	5700	19.181	15.90	15.92	18.92	24	23.83
144(U-NII-2C)	5720	14.591	16.76	16.77	19.78	24	22.64
144(U-NII-3)	5720	--	11.63	11.65	14.65	30	--
149	5745	--	17.98	17.96	20.98	30	--
157	5785	--	17.97	17.98	20.99	30	--
165	5825	--	17.97	17.95	20.97	30	--

Note:

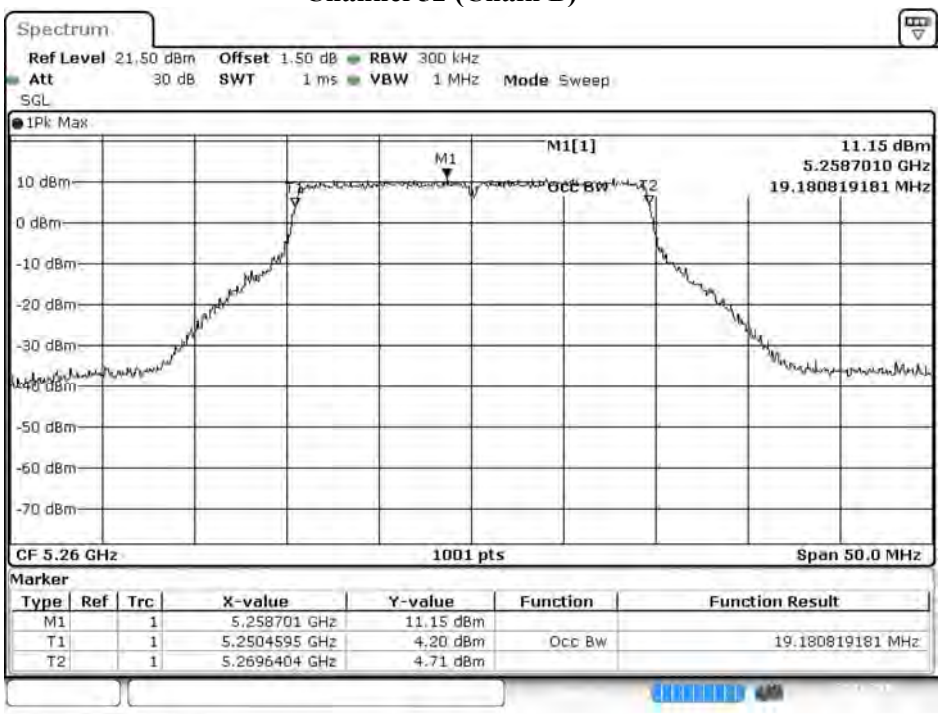
1. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
2. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

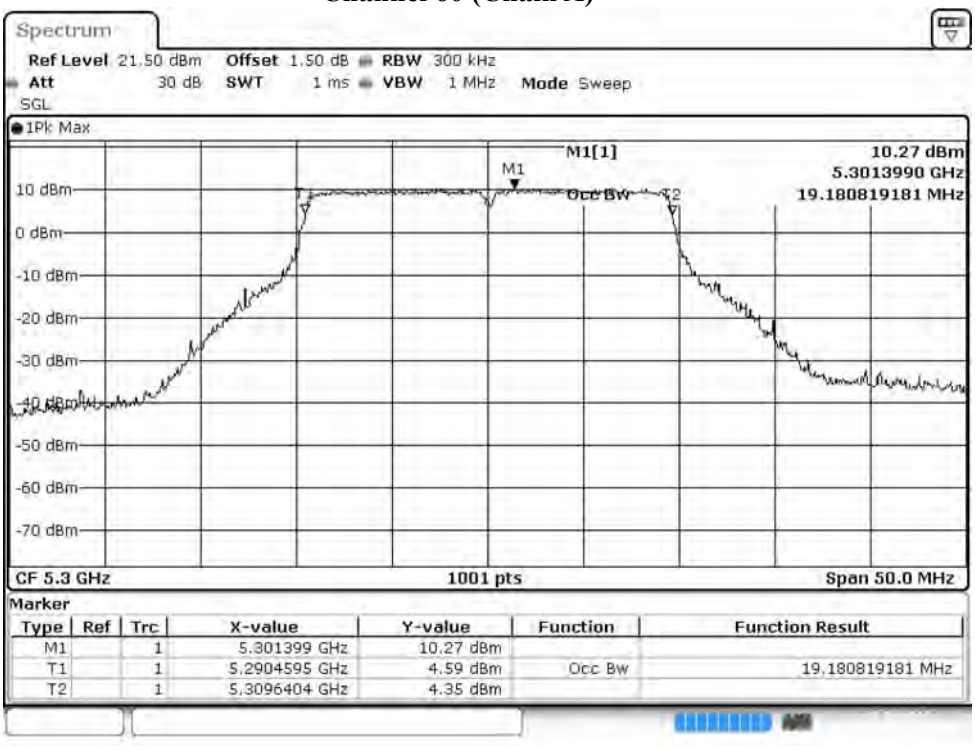
Channel 52 (Chain A)



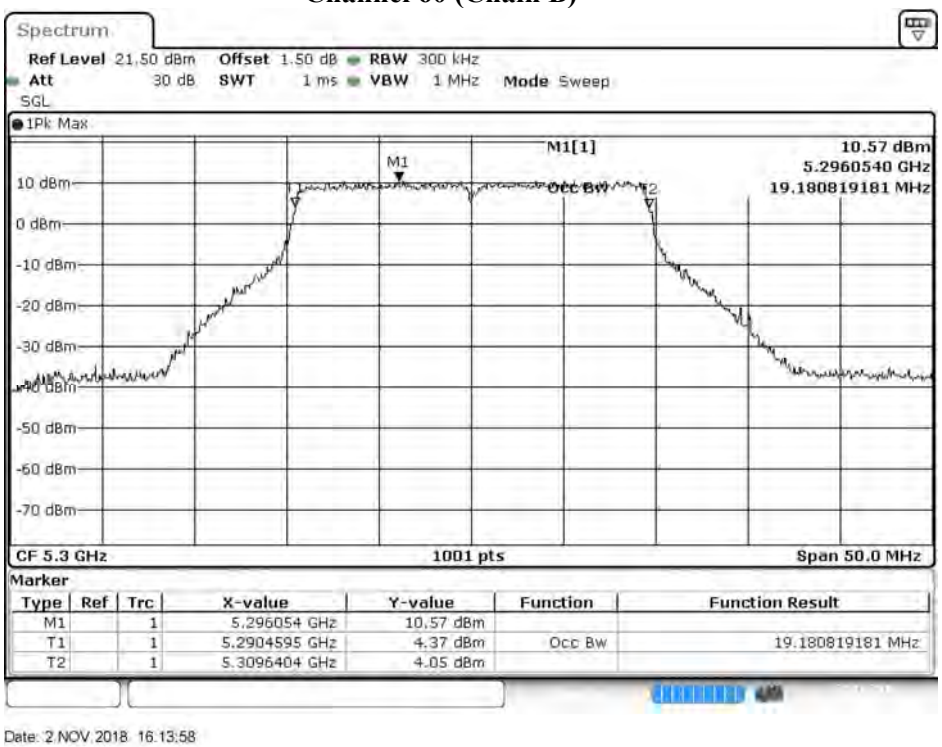
Channel 52 (Chain B)



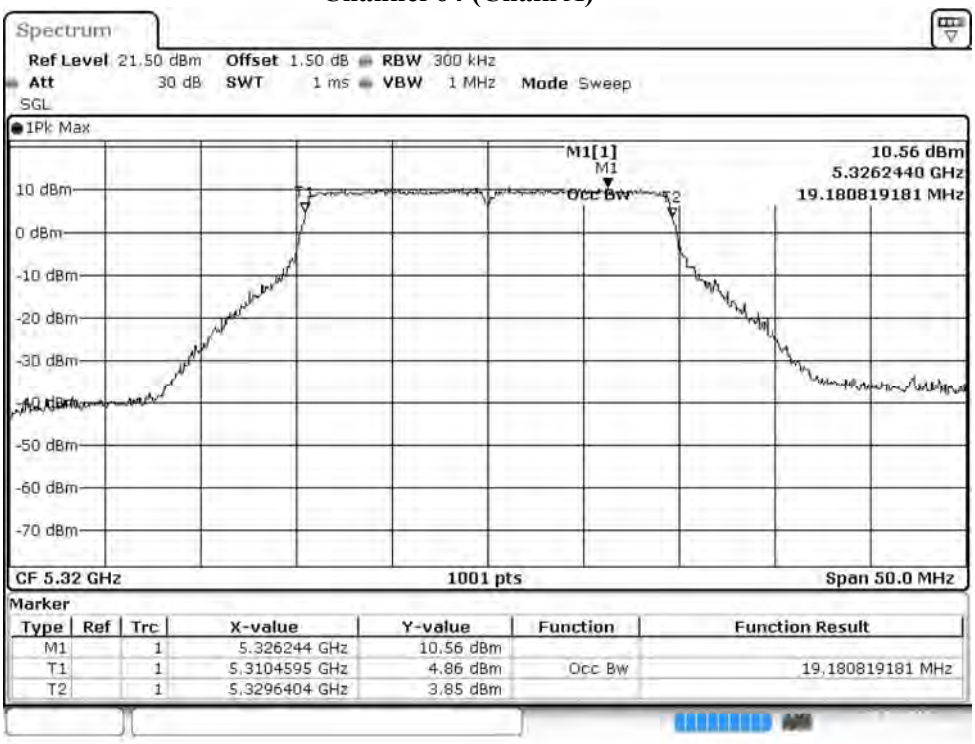
Channel 60 (Chain A)



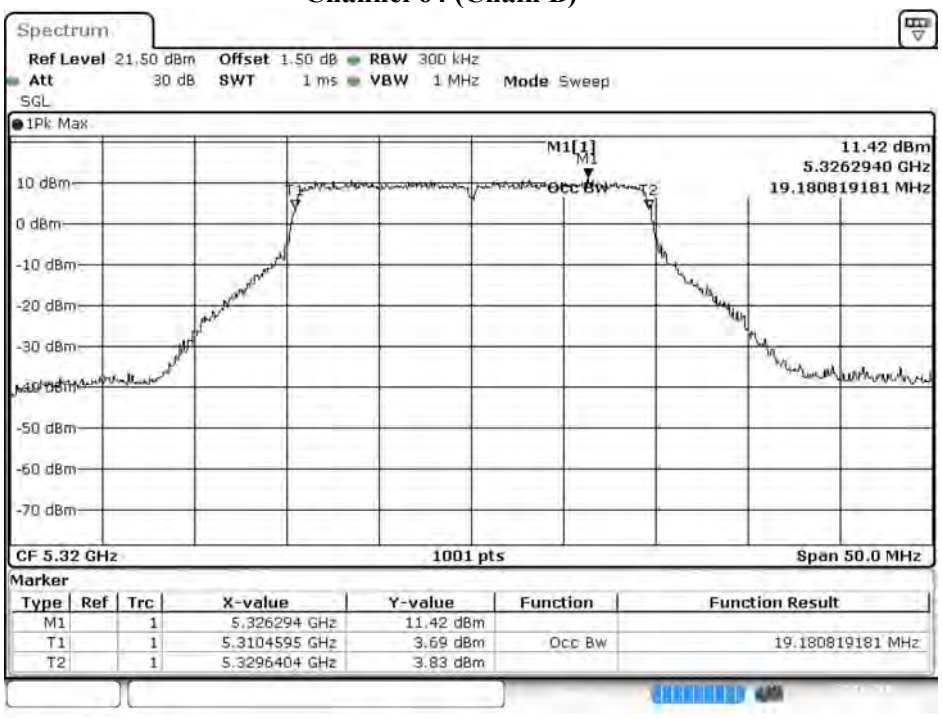
Channel 60 (Chain B)



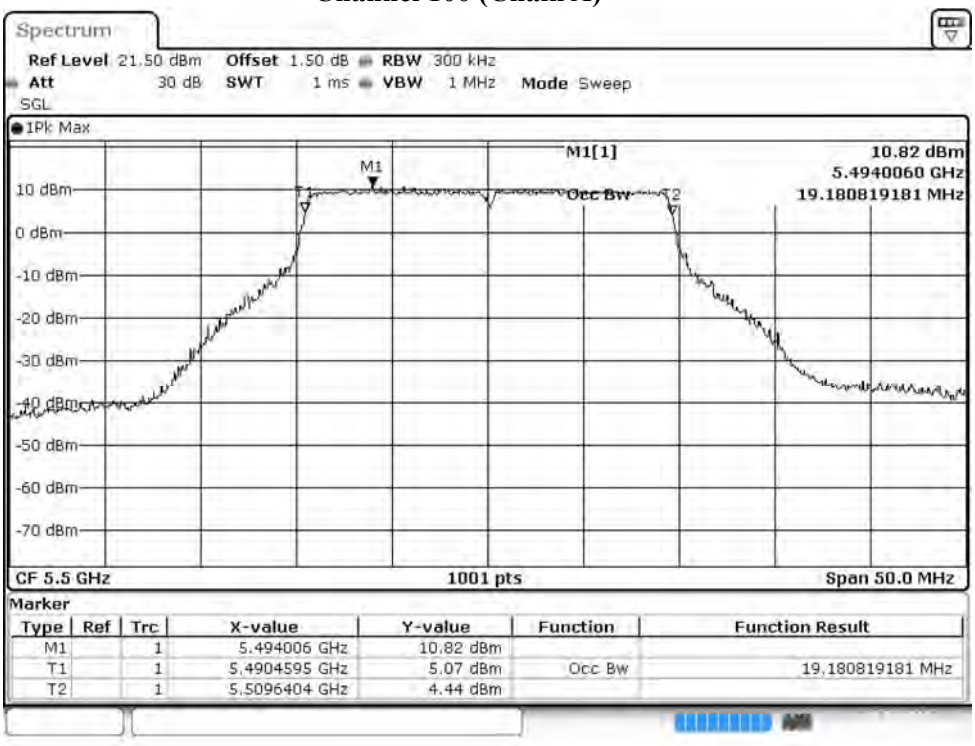
Channel 64 (Chain A)



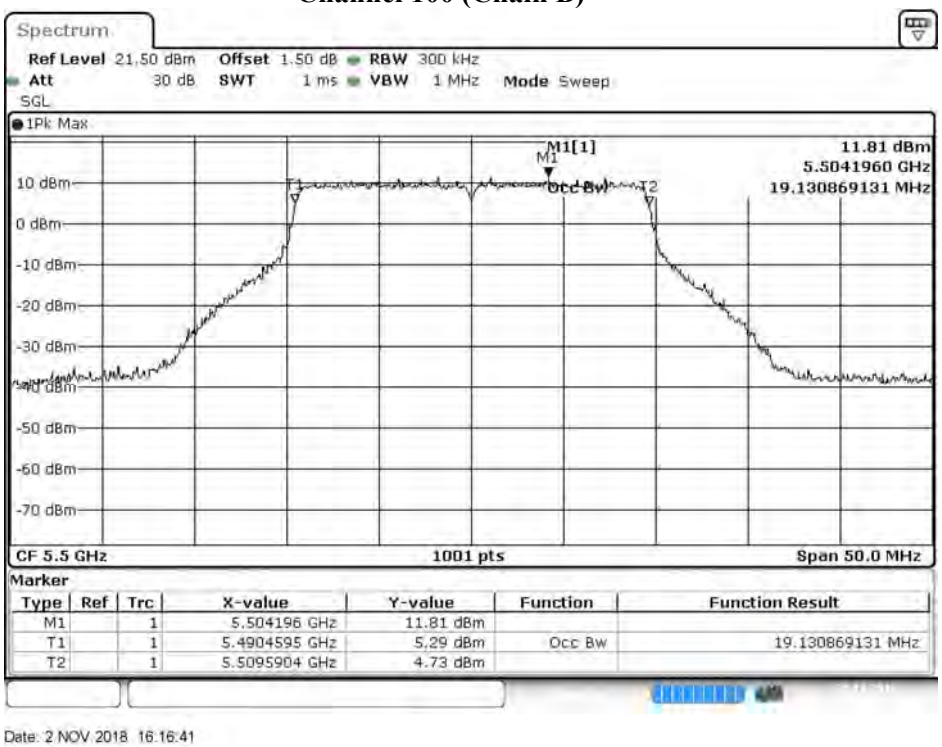
Channel 64 (Chain B)



Channel 100 (Chain A)

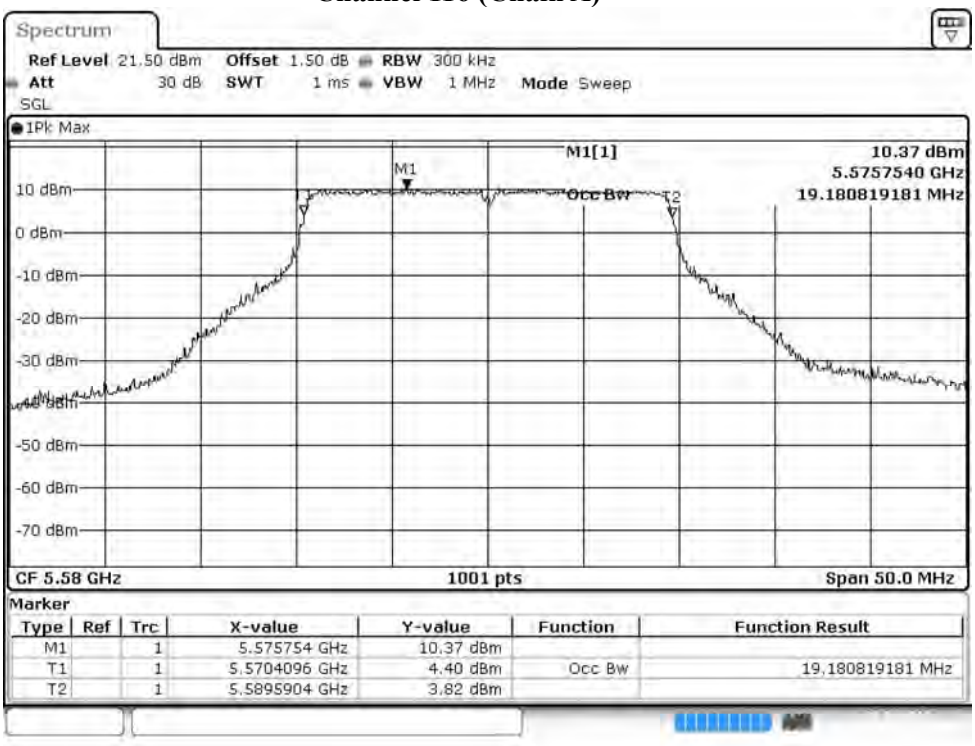


Channel 100 (Chain B)

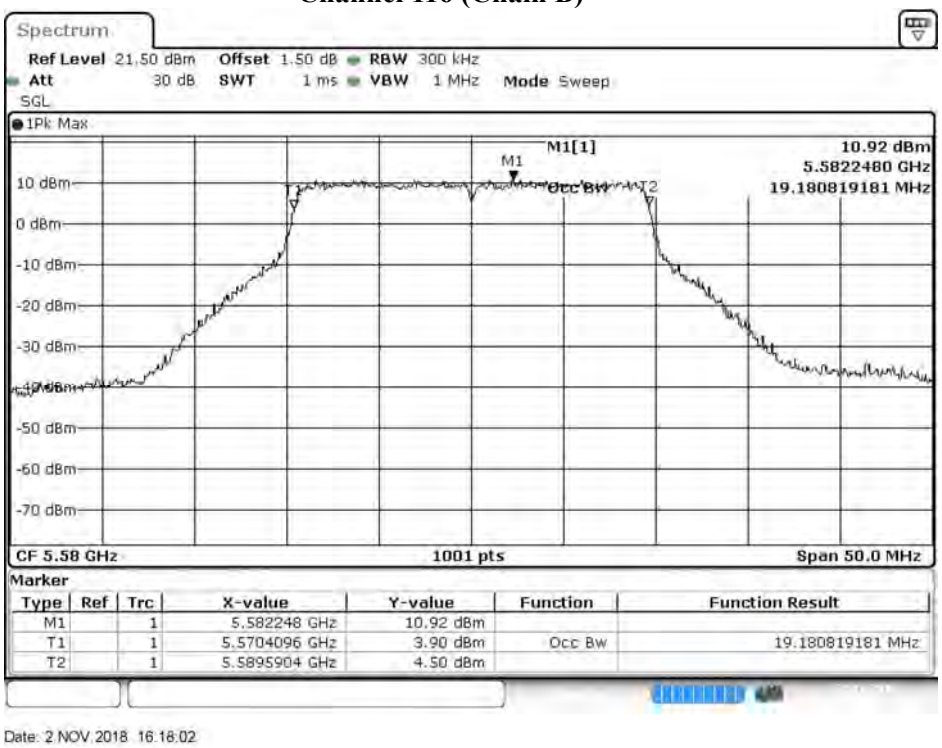


Date: 2 NOV 2018 16:16:41

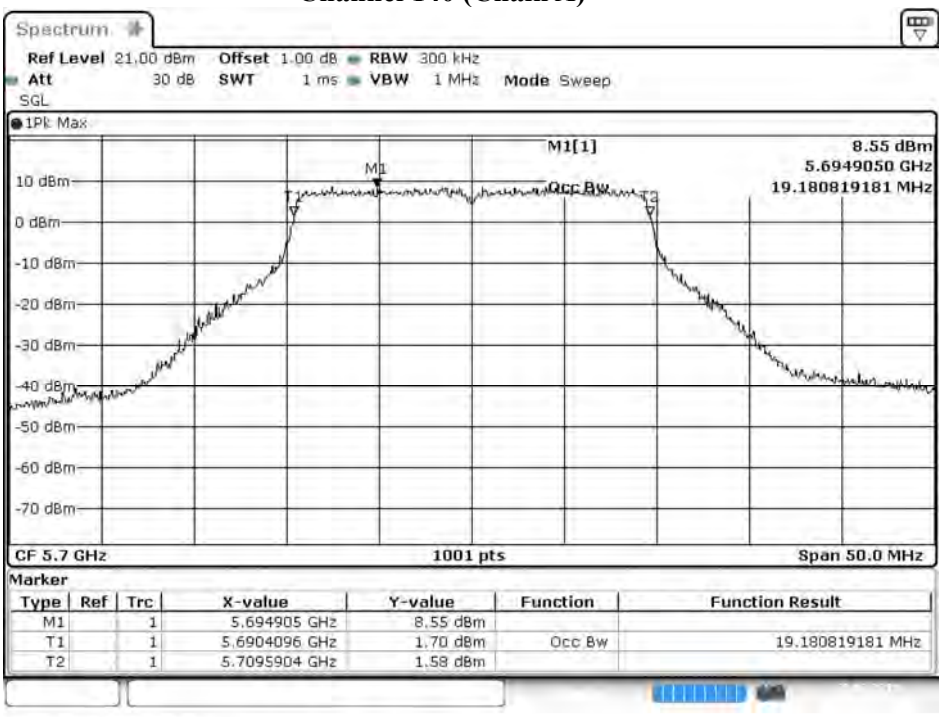
Channel 116 (Chain A)



Channel 116 (Chain B)

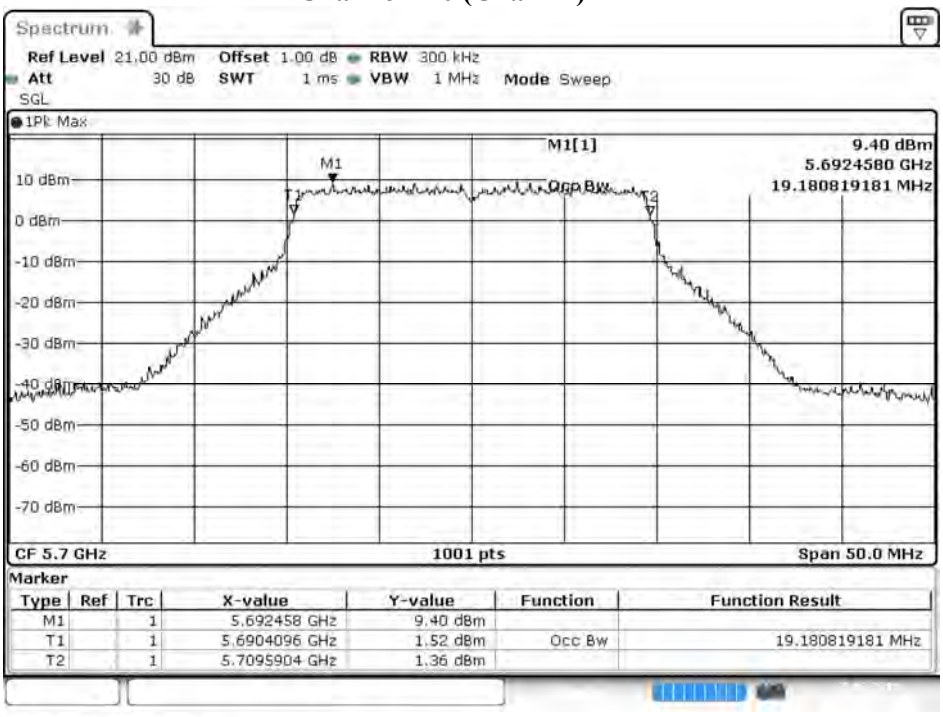


Channel 140 (Chain A)



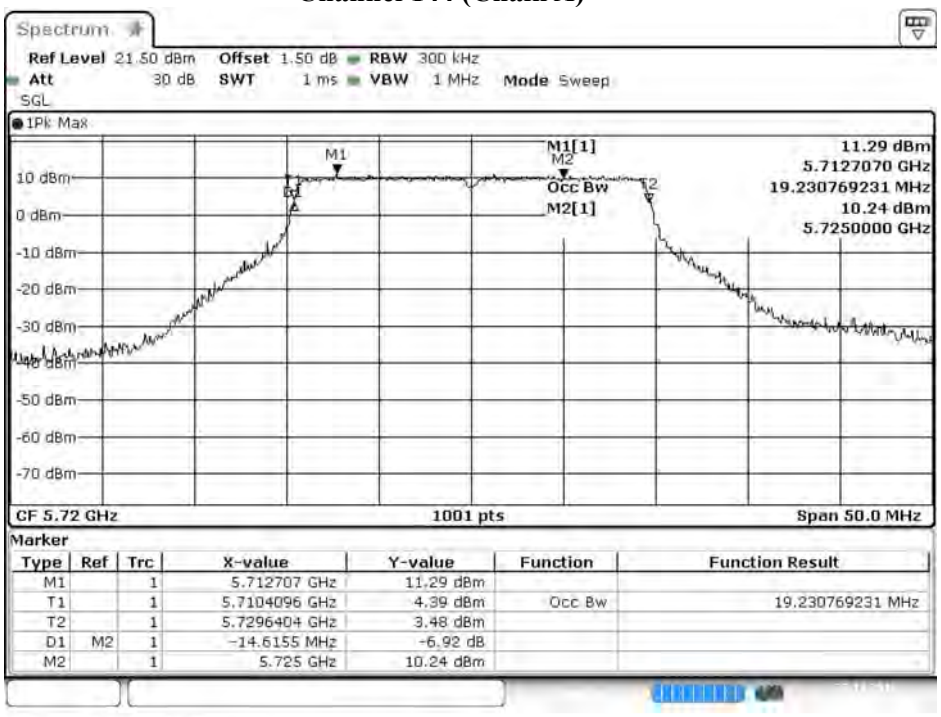
Date: 25.MAR.2019 13:48:55

Channel 140 (Chain B)



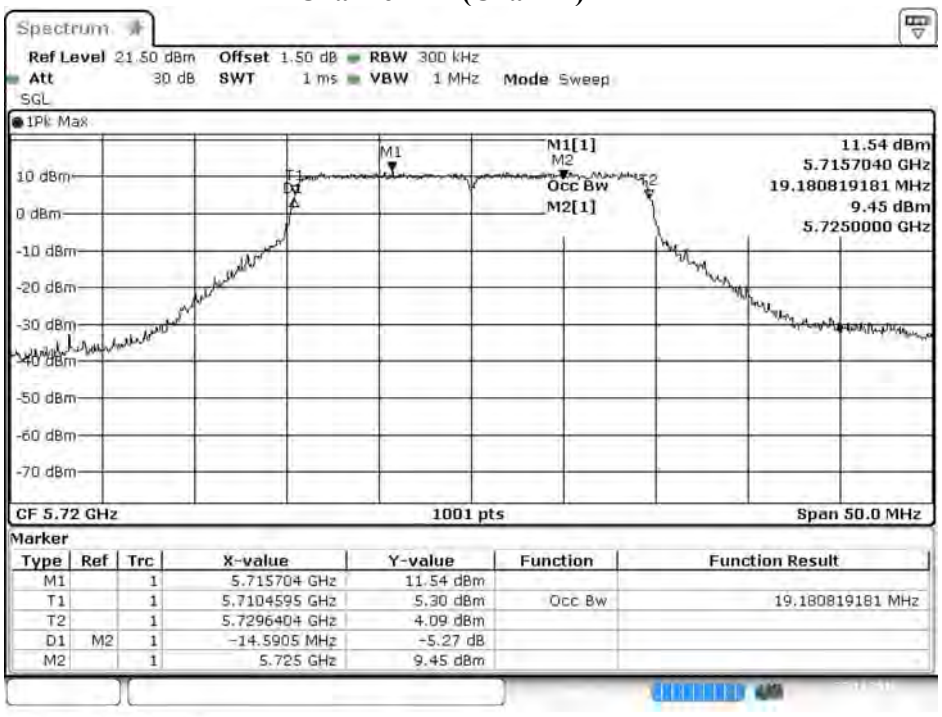
Date: 25.MAR.2019 14:00:27

Channel 144 (Chain A)



Date: 27.NOV.2018 16:58:36

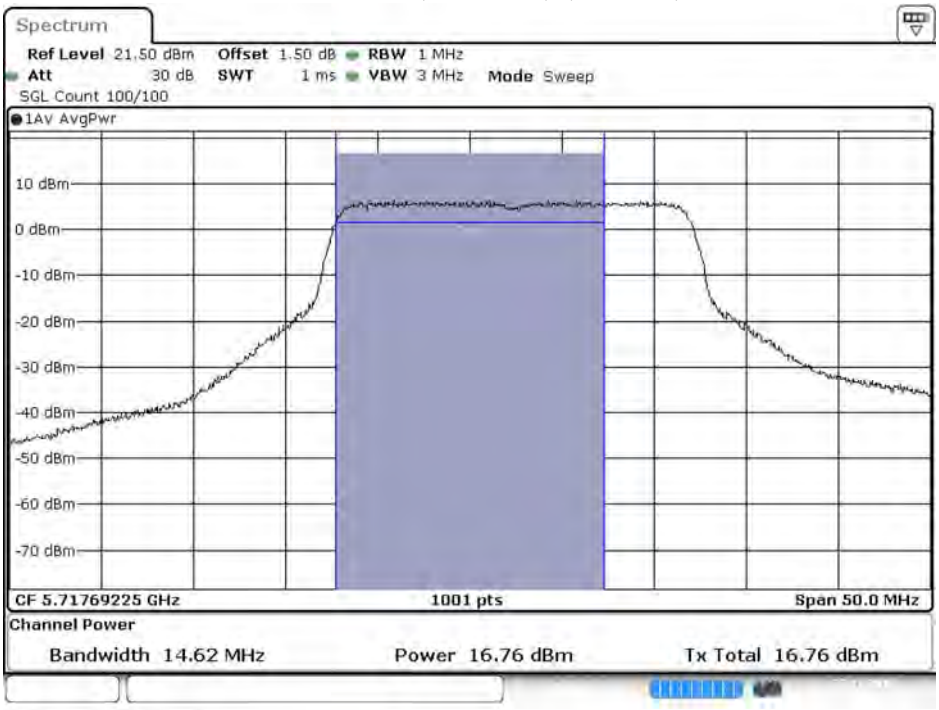
Channel 144 (Chain B)



Date: 27.NOV.2018 18:01:10

Maximum conducted output power:

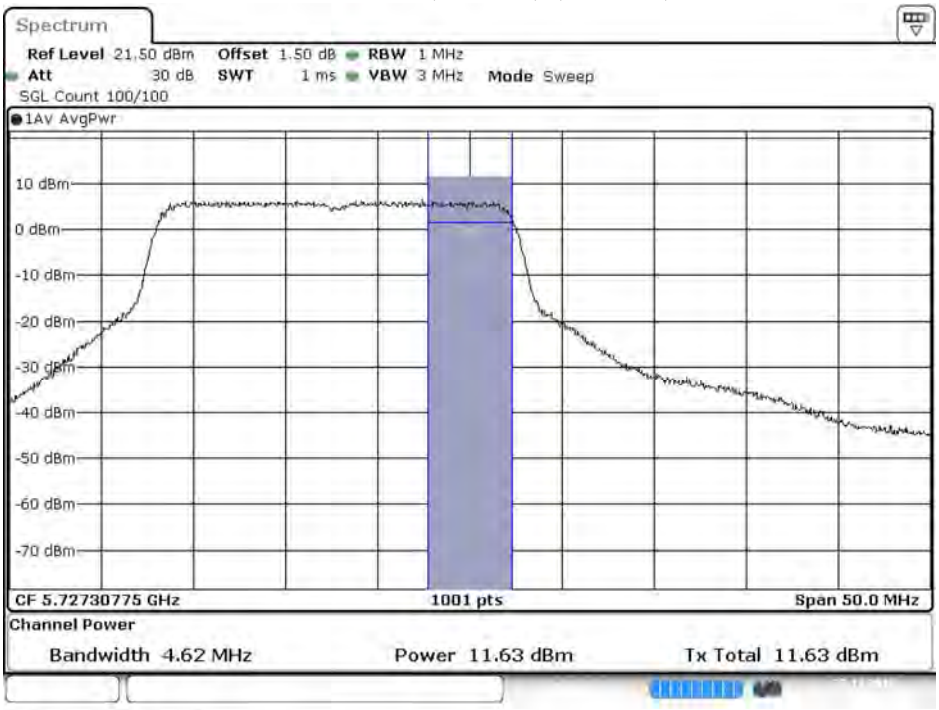
Channel 144 (U-NII-2C) (Chain A)



Date: 27.NOV.2018 17:00:15

Maximum conducted output power:

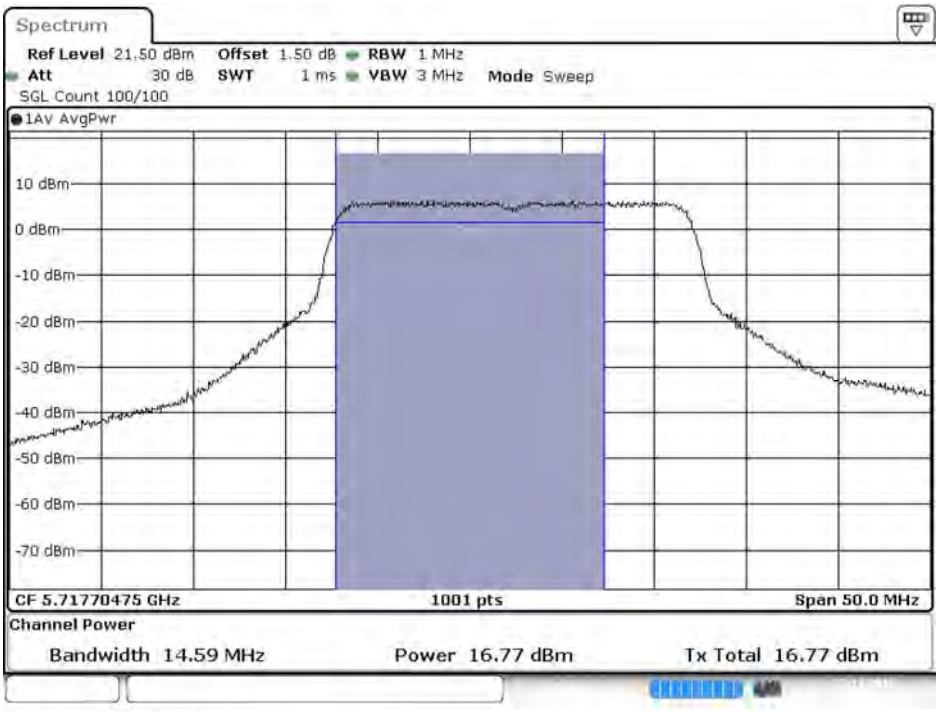
Channel 144 (U-NII-3) (Chain A)



Date: 27.NOV.2018 17:00:37

Maximum conducted output power:

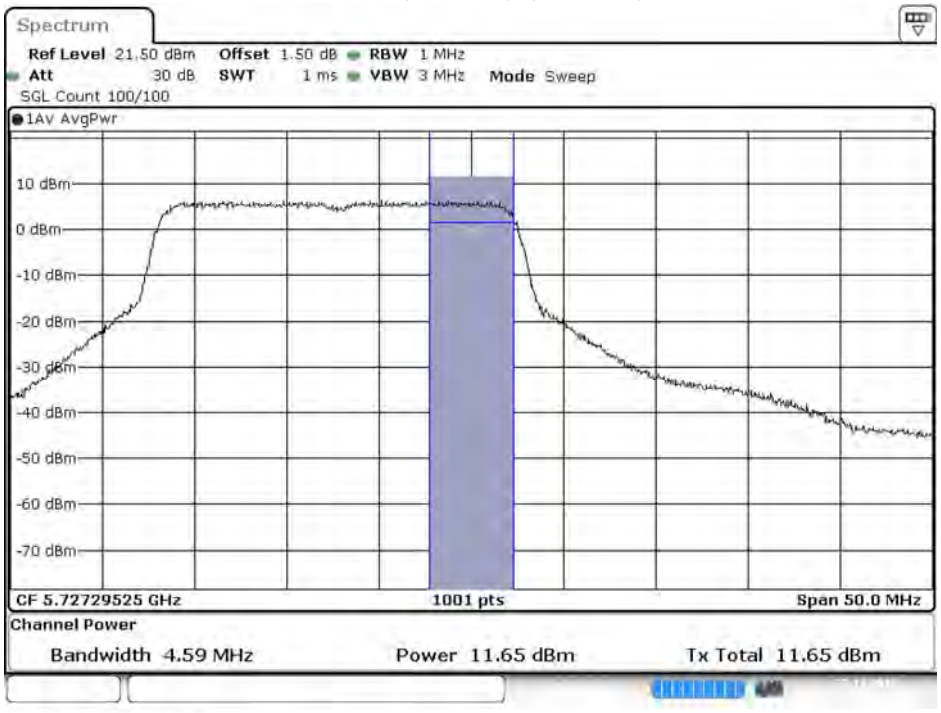
Channel 144 (U-NII-2C) (Chain B)



Date: 27.NOV.2018 18:02:49

Maximum conducted output power:

Channel 144 (U-NII-3) (Chain B)



Date: 27.NOV.2018 18:03:13

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL　　測試項目：峰值發射功率
測試頻道：--　　測試模式：Mode 3: MIMO: 發射器 802.11ax-40BW
檢測器：峰值　　環境溫度：21 ℃
測試日期：108 年 03 月 25 日　　環境濕度：53 %

Chain A

Cable loss=1.5dB		Maximum conducted output power											
Channel No.	Frequency (MHz)	Data Rate											
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
38	5190	17.98	--	--	--	--	--	--	--	--	--	--	--
46	5230	17.95	17.90	17.84	17.79	17.73	17.68	17.62	17.57	17.51	17.46	17.41	17.35
54	5270	17.98	--	--	--	--	--	--	--	--	--	--	--
62	5310	16.77	16.73	16.69	16.66	16.61	16.57	16.52	16.49	16.44	16.41	16.37	16.34
102	5510	16.61	--	--	--	--	--	--	--	--	--	--	--
110	5550	17.95	17.90	17.84	17.79	17.75	17.71	17.65	17.60	17.56	17.51	17.46	17.41
134	5670	17.89	--	--	--	--	--	--	--	--	--	--	--
142(U-NII-2C)	5710	17.50	17.45	17.40	17.36	17.31	17.27	17.23	17.18	17.14	17.09	17.03	16.98
142(U-NII-3)	5710	8.00	7.94	7.90	7.86	7.81	7.76	7.72	7.67	7.62	7.58	7.53	7.48
151	5755	17.95	--	--	--	--	--	--	--	--	--	--	--
159	5795	17.98	17.94	17.89	17.86	17.81	17.77	17.73	17.69	17.64	17.60	17.56	17.52

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1.5dB		Maximum conducted output power											
Channel No.	Frequency (MHz)	Data Rate											
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
38	5190	17.95	--	--	--	--	--	--	--	--	--	--	--
46	5230	17.98	17.93	17.88	17.82	17.77	17.72	17.66	17.61	17.56	17.51	17.45	17.40
54	5270	17.99	--	--	--	--	--	--	--	--	--	--	--
62	5310	16.81	16.77	16.72	16.68	16.62	16.58	16.53	16.49	16.44	16.39	16.34	16.30
102	5510	16.66	--	--	--	--	--	--	--	--	--	--	--
110	5550	17.96	17.92	17.87	17.81	17.77	17.72	17.67	17.62	17.57	17.52	17.48	17.43
134	5670	17.90	--	--	--	--	--	--	--	--	--	--	--
142(U-NII-2C)	5710	17.42	17.38	17.32	17.27	17.23	17.18	17.14	17.09	17.03	16.98	16.94	16.88
142(U-NII-3)	5710	8.10	8.06	8.01	7.94	7.89	7.84	7.78	7.73	7.68	7.62	7.57	7.51
151	5755	17.97	--	--	--	--	--	--	--	--	--	--	--
159	5795	17.95	17.89	17.82	17.78	17.73	17.67	17.61	17.56	17.50	17.45	17.39	17.34

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

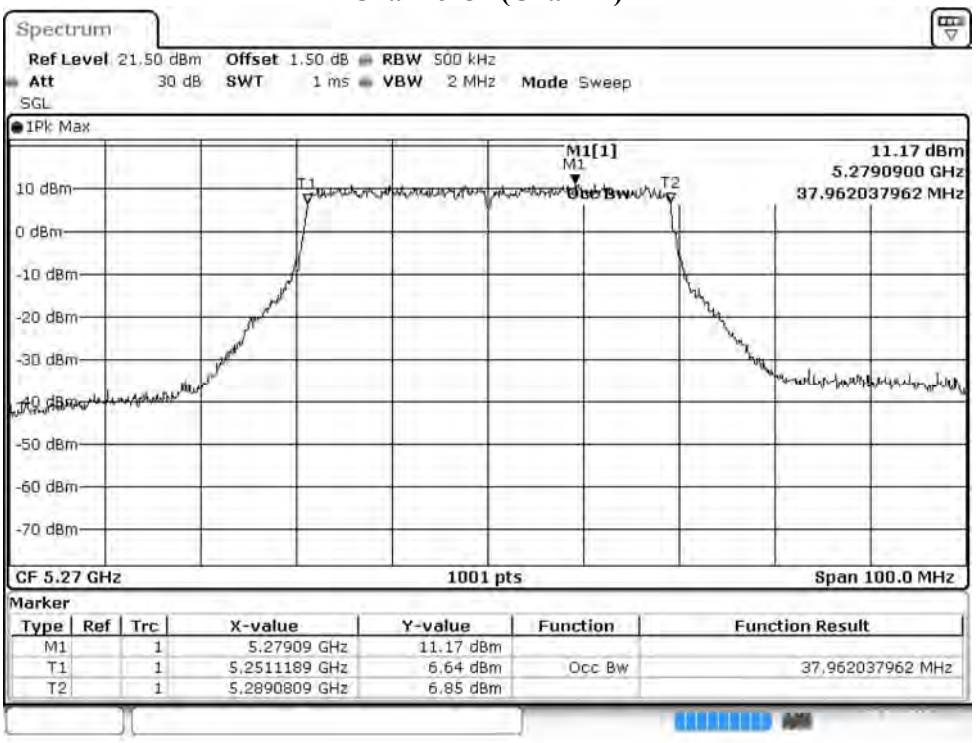
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
38	5190	--	17.98	17.95	20.98	24	--
46	5230	--	17.95	17.98	20.98	24	--
54	5270	37.962	17.98	17.99	21.00	24	26.79
62	5310	37.862	16.77	16.81	19.80	24	26.78
102	5510	37.962	16.61	16.66	19.65	24	26.79
110	5550	37.862	17.95	17.96	20.97	24	26.78
134	5670	37.862	17.89	17.90	20.91	24	26.78
142(U-NII-2C)	5710	33.931	17.50	17.42	20.47	24	26.31
142(U-NII-3)	5710	--	8.00	8.10	11.06	30	--
151	5755	--	17.95	17.97	20.97	30	--
159	5795	--	17.98	17.95	20.98	30	--

Note:

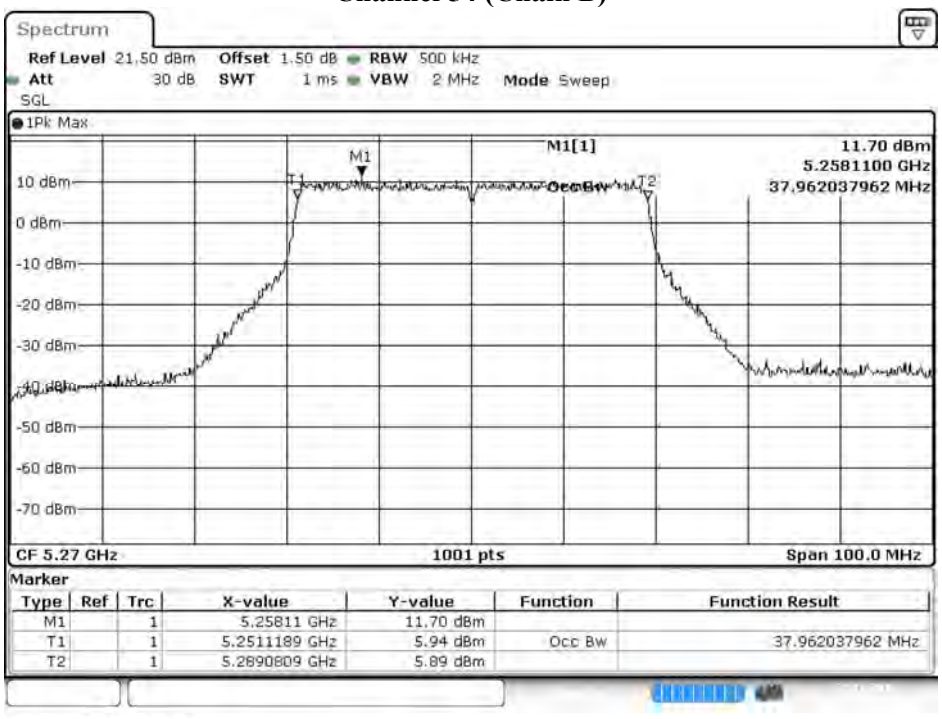
1. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
2. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

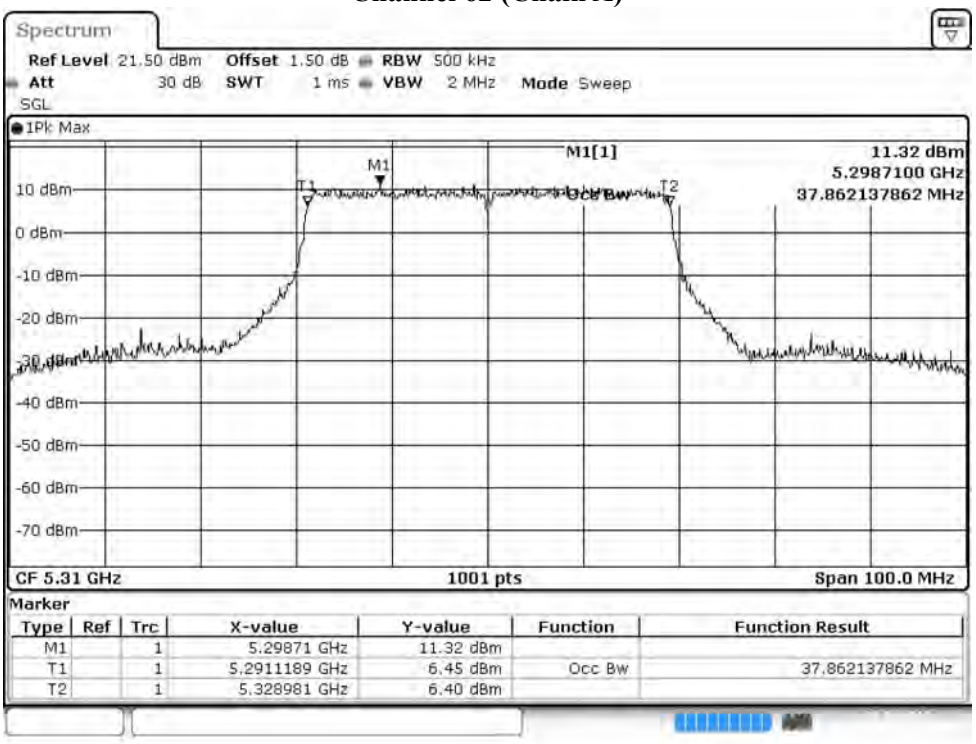
Channel 54 (Chain A)



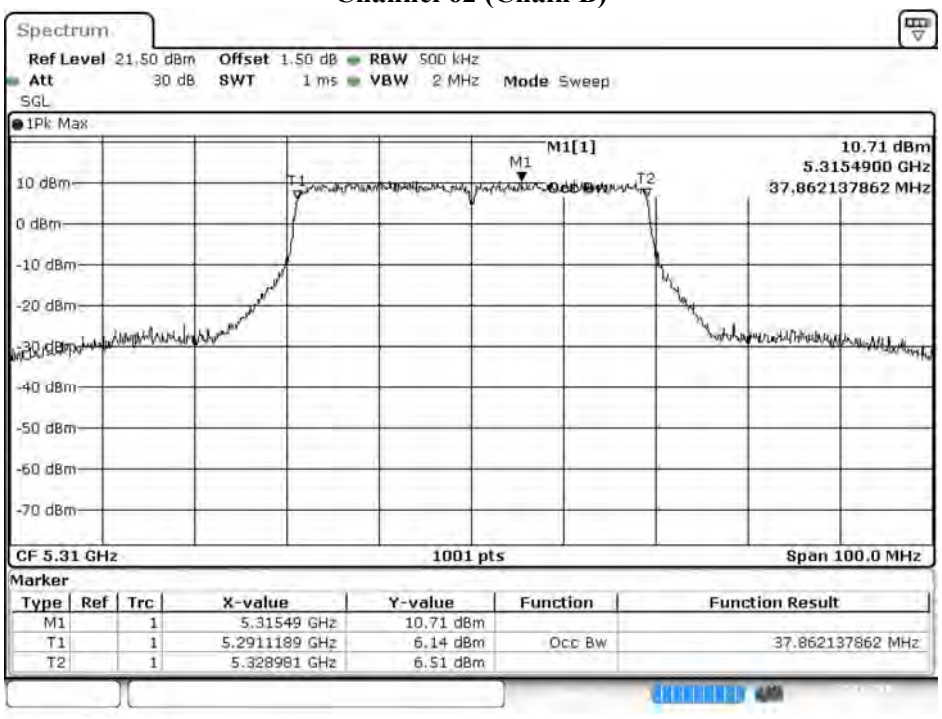
Channel 54 (Chain B)



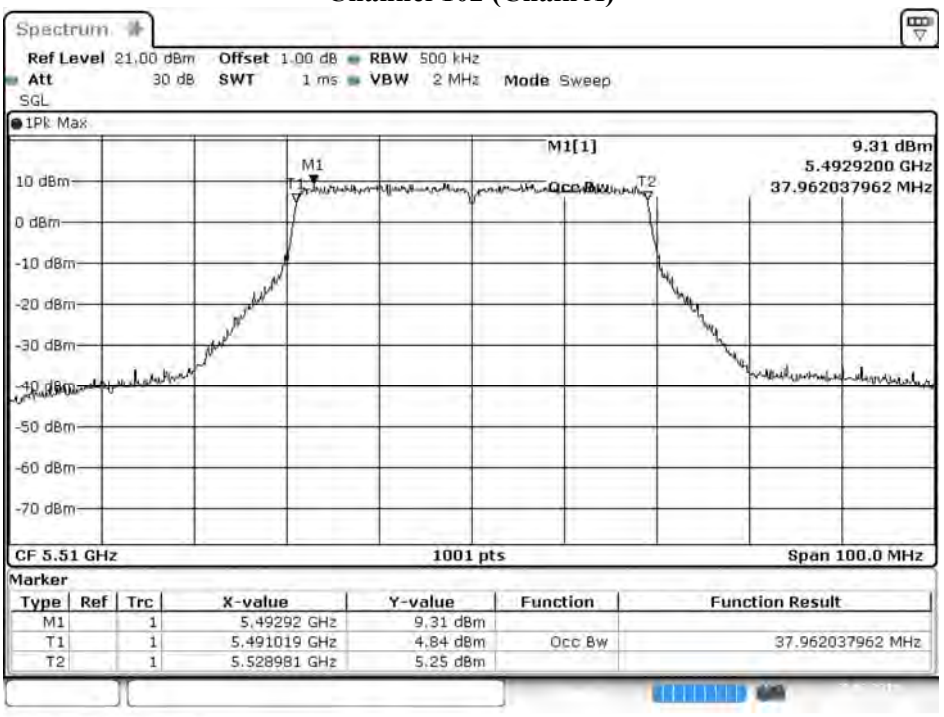
Channel 62 (Chain A)



Channel 62 (Chain B)

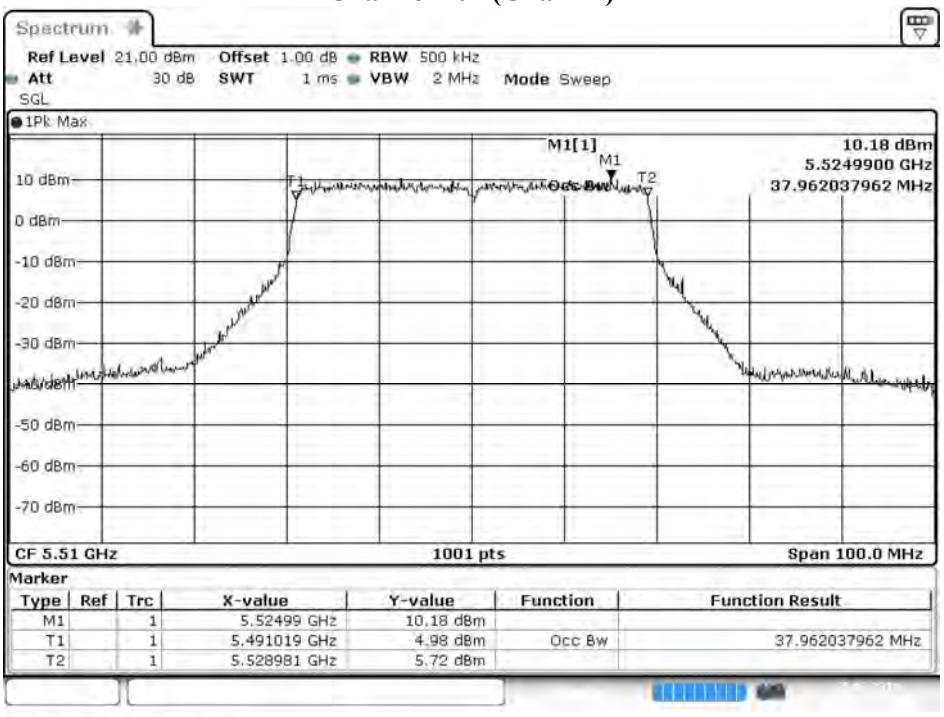


Channel 102 (Chain A)



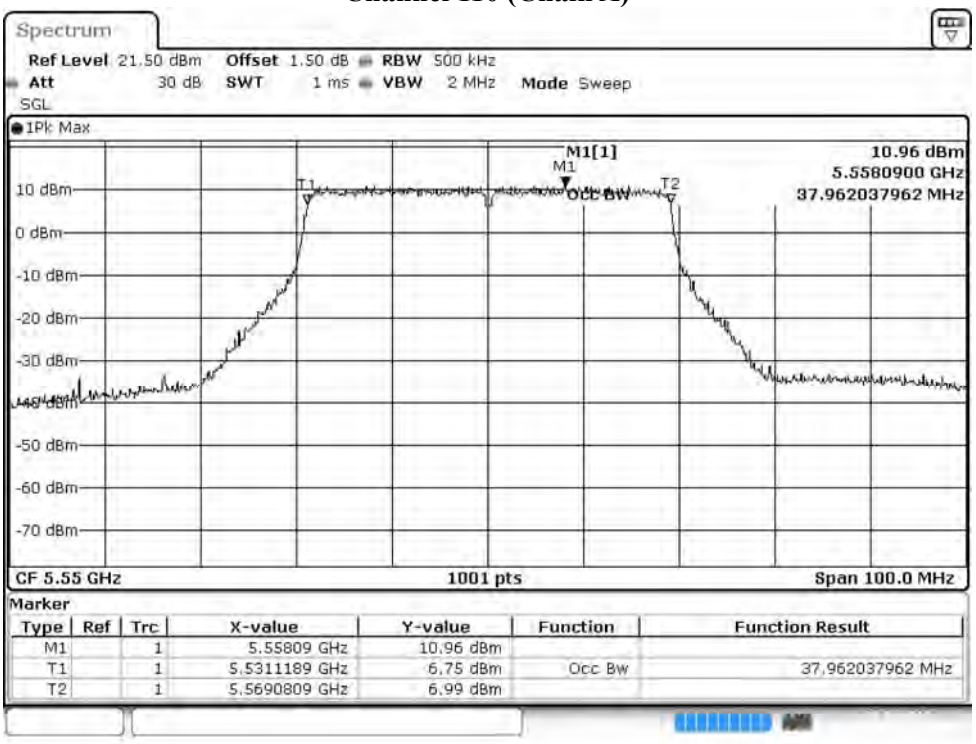
Date: 25.MAR.2019 13:51:51

Channel 102 (Chain B)

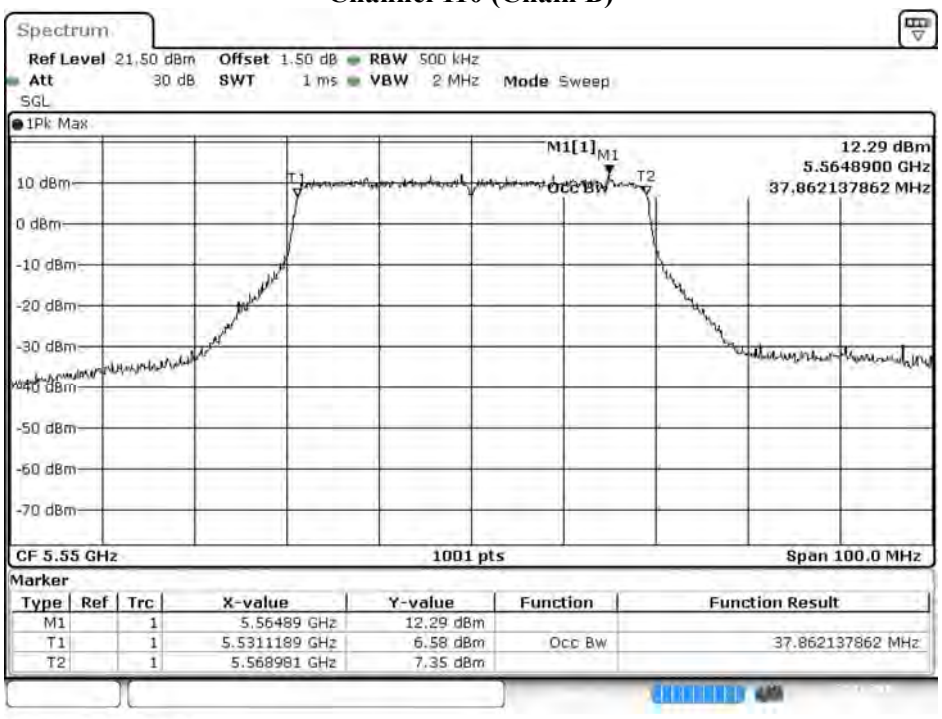


Date: 25.MAR.2019 14:03:23

Channel 110 (Chain A)

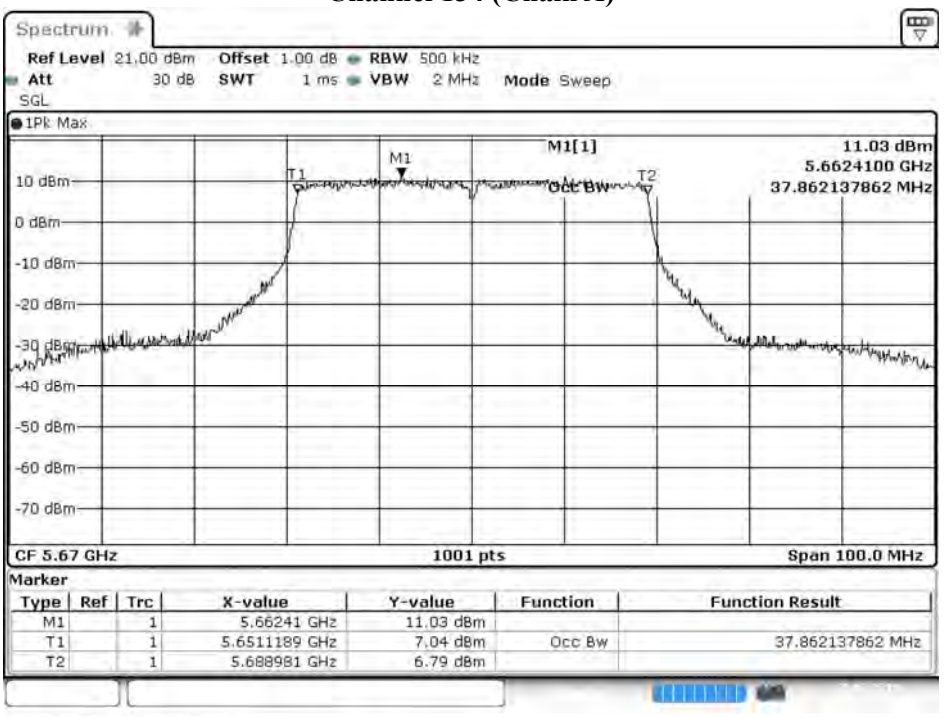


Channel 110 (Chain B)



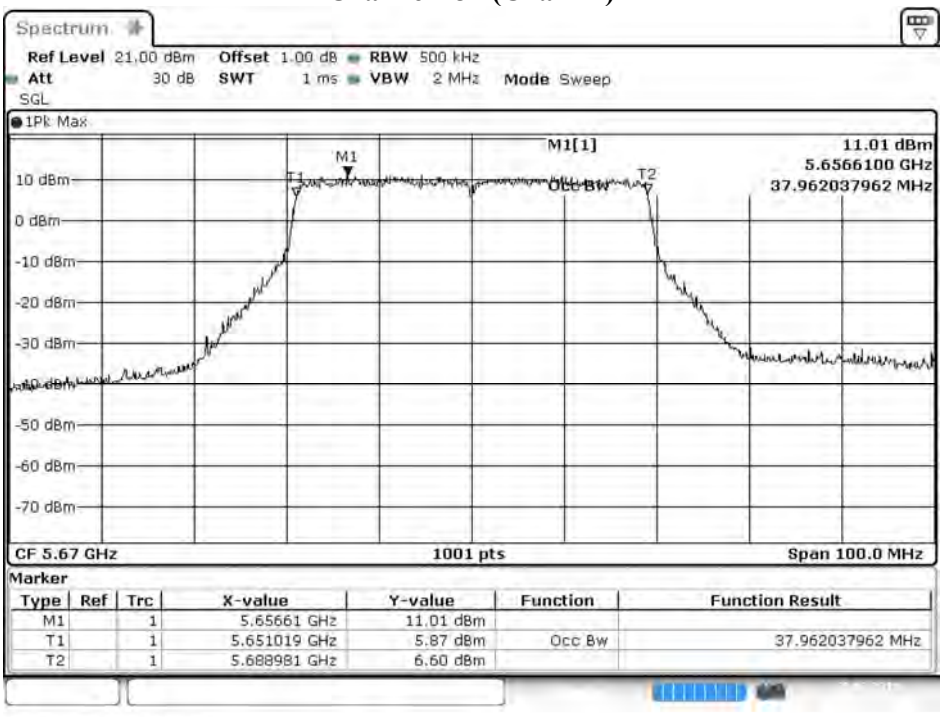
Date: 2.NOV.2018 16:41:33

Channel 134 (Chain A)



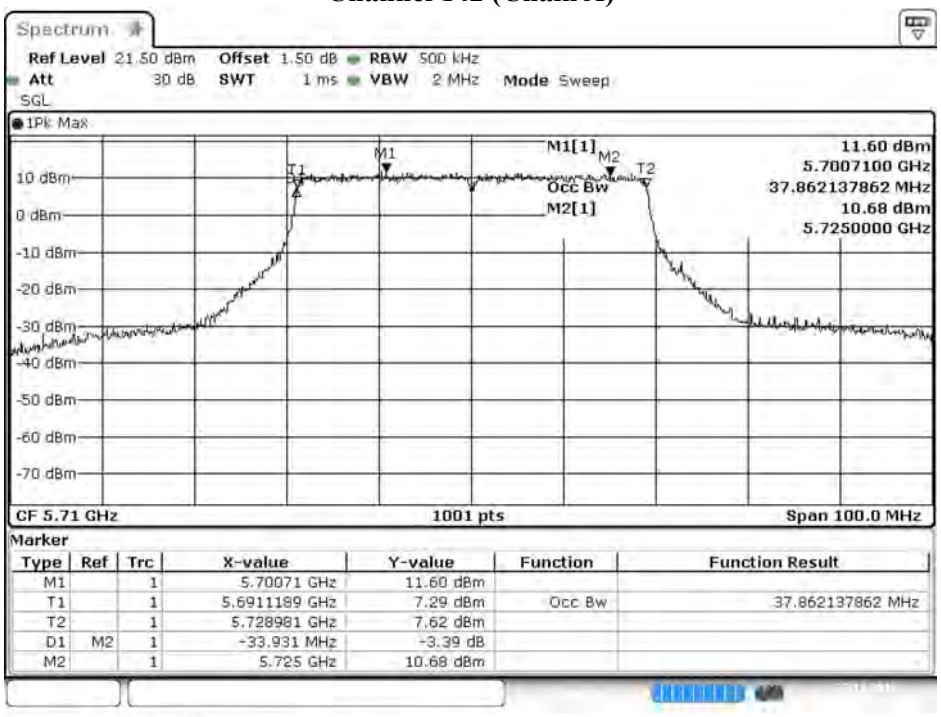
Date: 25.MAR.2019 13:55:05

Channel 134 (Chain B)



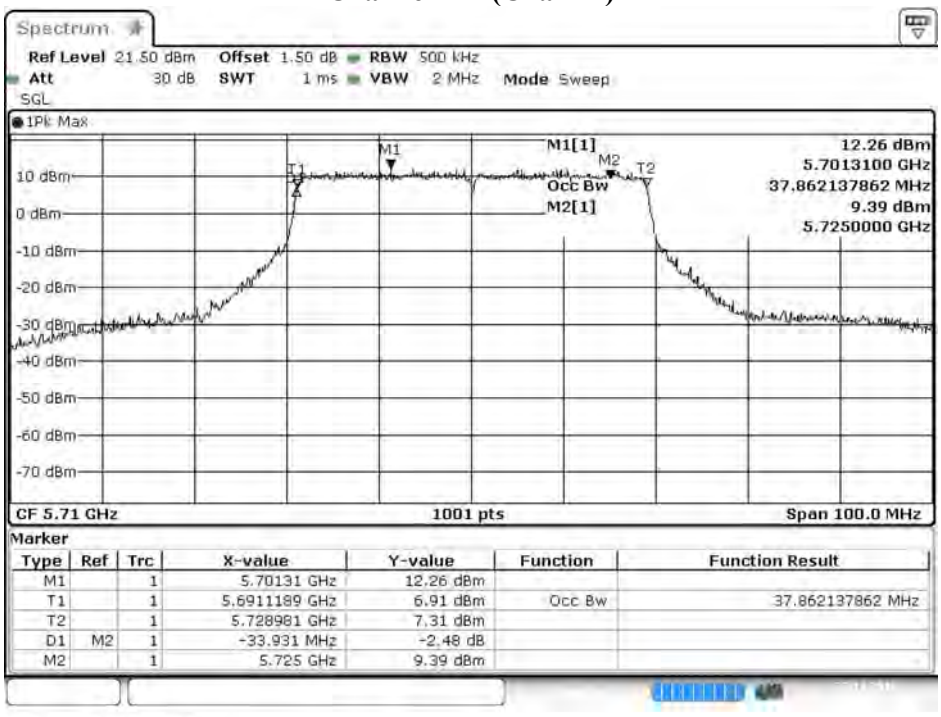
Date: 25.MAR.2019 14:07:19

Channel 142 (Chain A)



Date: 27.NOV.2018 17:02:27

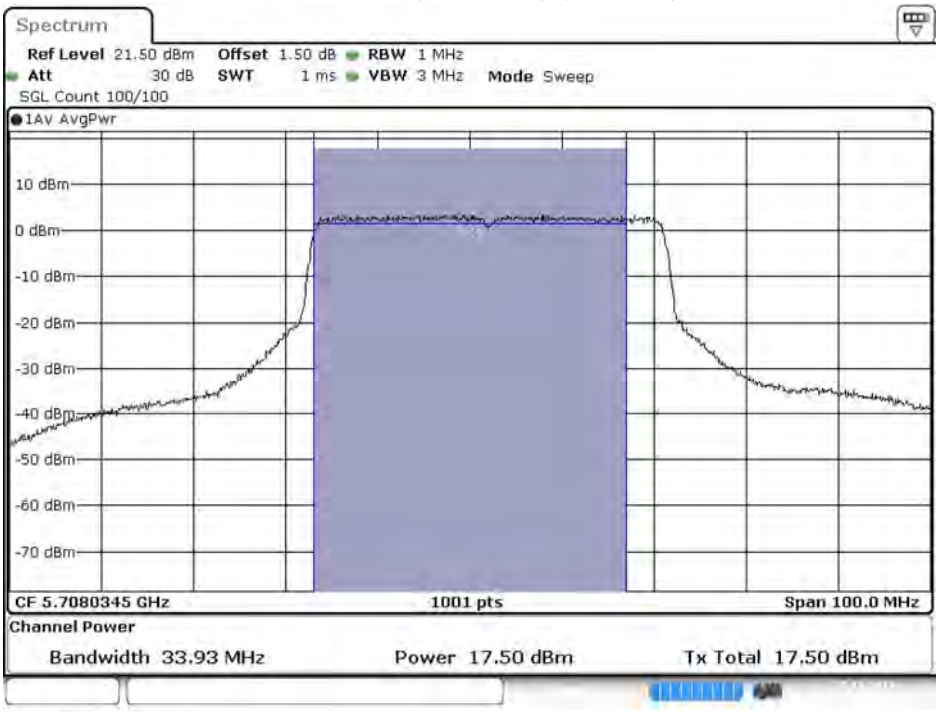
Channel 142 (Chain B)



Date: 27.NOV.2018 18:05:02

Maximum conducted output power:

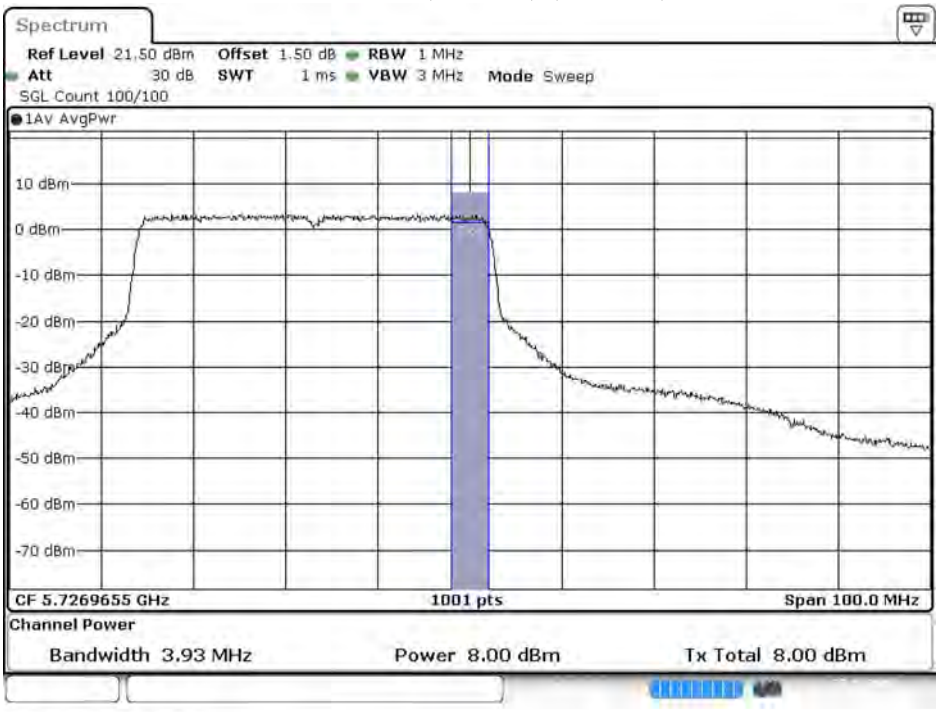
Channel 142(U-NII-2C) (Chain A)



Date: 27.NOV.2018 17:04:07

Maximum conducted output power:

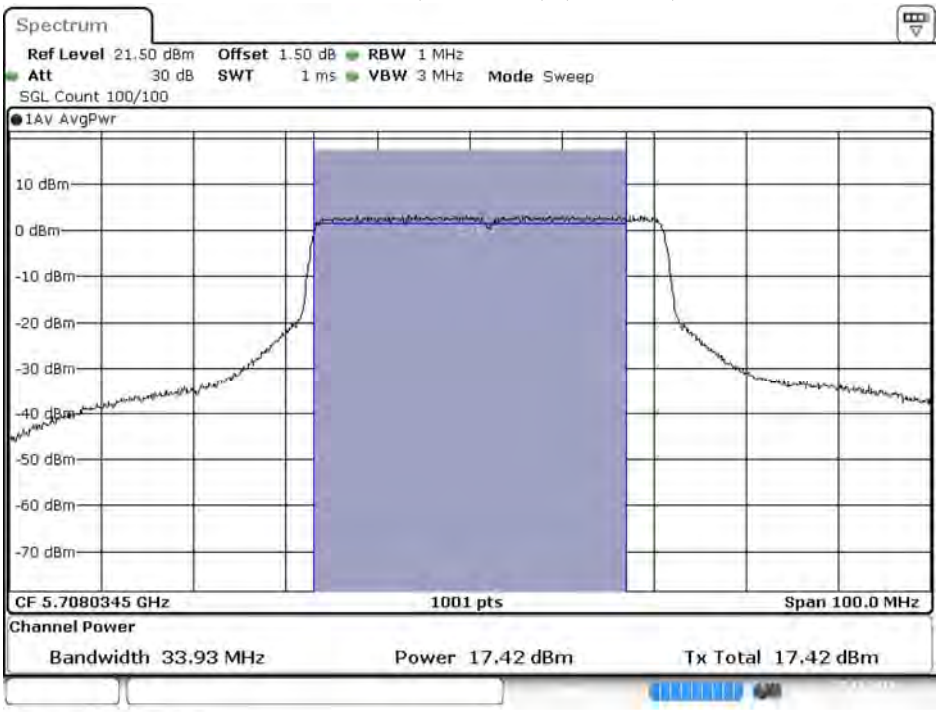
Channel 142(U-NII-3) (Chain A)



Date: 27.NOV.2018 17:04:29

Maximum conducted output power:

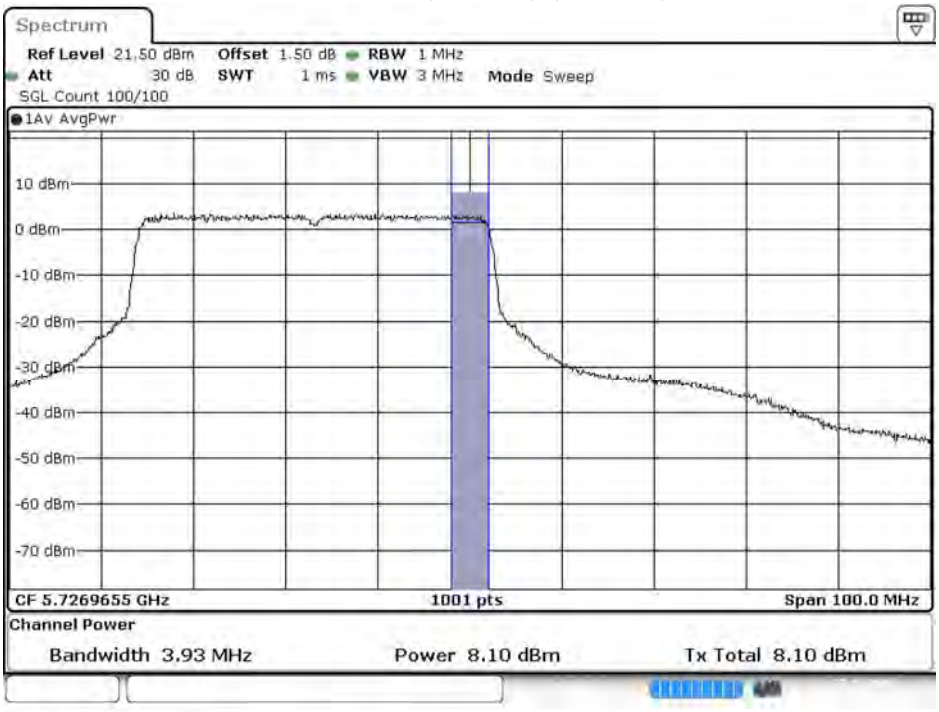
Channel 142(U-NII-2C) (Chain B)



Date: 27.NOV.2018 18:06:41

Maximum conducted output power:

Channel 142(U-NII-3) (Chain B)



Date: 27.NOV.2018 18:07:04

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL　　測試項目：峰值發射功率
測試頻道：--　　測試模式：Mode 3: MIMO: 發射器 802.11ax-80BW
6 dB 頻寬：1MHz　　視頻頻寬：3MHz
檢測器：峰值　　環境溫度：21 ℃
測試日期：107 年 11 月 27 日　　環境濕度：53 %

Chain A

Cable loss=1.5dB		Maximum conducted output power											
Channel No	Frequency (MHz)	Data Rate											
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
42	5210	16.79	16.73	16.68	16.61	16.57	16.51	16.45	16.40	16.34	16.28	16.23	16.17
58	5290	16.61	16.57	16.51	16.47	16.42	16.37	16.32	16.27	16.23	16.18	16.13	16.08
106	5530	15.76	--	--	--	--	--	--	--	--	--	--	--
122	5610	17.99	17.93	17.88	17.83	17.77	17.72	17.66	17.61	17.56	17.50	17.45	17.39
138 (U-NII-2C)	5690	17.57	--	--	--	--	--	--	--	--	--	--	--
138 (U-NII-3)	5690	1.53	--	--	--	--	--	--	--	--	--	--	--
155	5775	17.85	17.81	17.76	17.70	17.55	17.52	17.45	17.38	17.31	17.24	17.17	17.10

Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

Chain B

Cable loss=1.5dB		Maximum conducted output power											
Channel No	Frequency (MHz)	Data Rate											
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
42	5210	16.92	16.87	16.82	16.77	16.71	16.66	16.61	16.56	16.50	16.45	16.40	16.35
58	5290	17.12	17.08	17.03	16.98	16.92	16.88	16.83	16.78	16.73	16.68	16.63	16.58
106	5530	16.10	--	--	--	--	--	--	--	--	--	--	--
122	5610	17.70	17.64	17.60	17.55	17.51	17.47	17.42	17.37	17.33	17.28	17.24	17.19
138 (U-NII-2C)	5690	17.62	--	--	--	--	--	--	--	--	--	--	--
138 (U-NII-3)	5690	1.38	--	--	--	--	--	--	--	--	--	--	--
155	5775	17.91	17.87	17.82	17.77	17.71	17.67	17.62	17.57	17.52	17.47	17.42	17.37

Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

Maximum conducted output power Measurement:

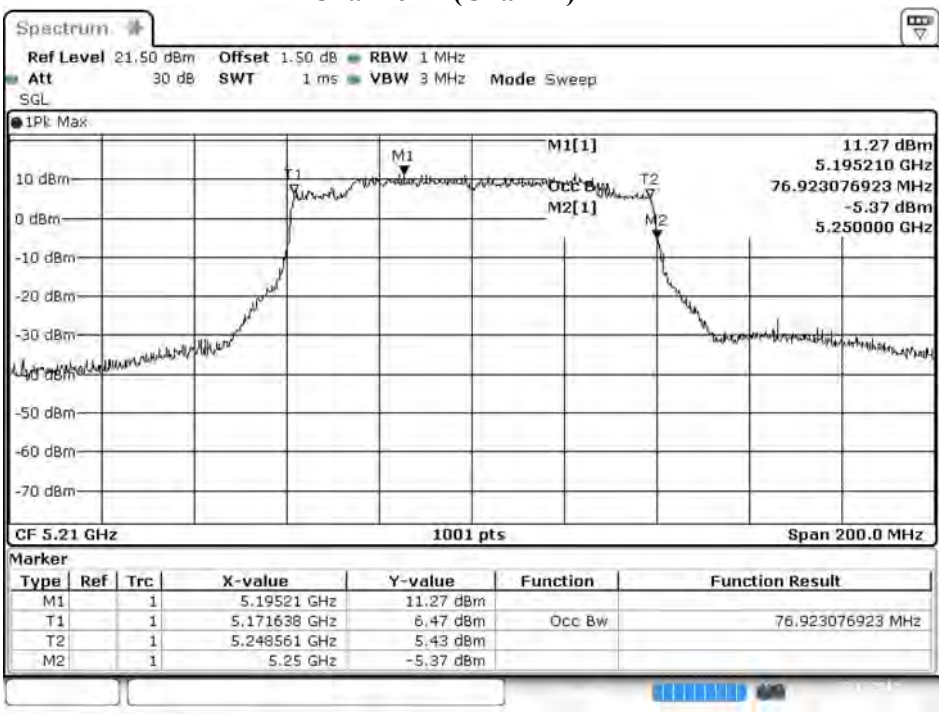
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
42	5210	--	16.79	16.92	19.87	24	--
58	5290	76.723	16.61	17.12	19.88	24	29.85
106	5530	76.923	15.76	16.10	18.94	24	29.86
122	5610	76.923	17.99	17.70	20.86	24	29.86
138 (U-NII-2C)	5690	73.261	17.57	17.62	20.61	24	29.65
138 (U-NII-3)	5690	--	1.53	1.38	4.47	30	--
155	5775	--	17.85	17.91	20.89	30	--

Note:

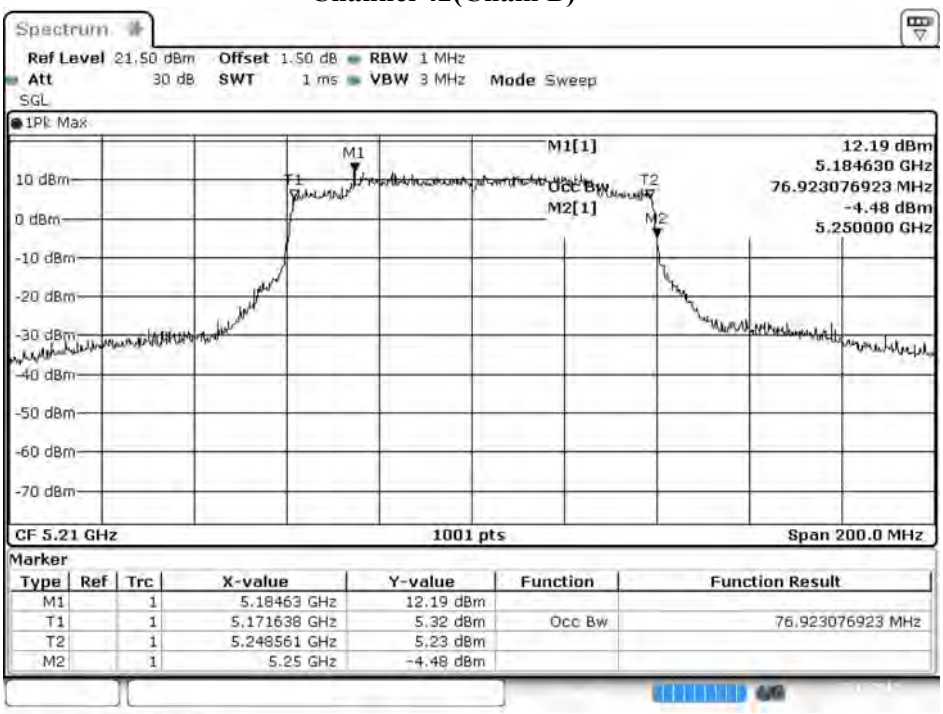
1. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
2. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

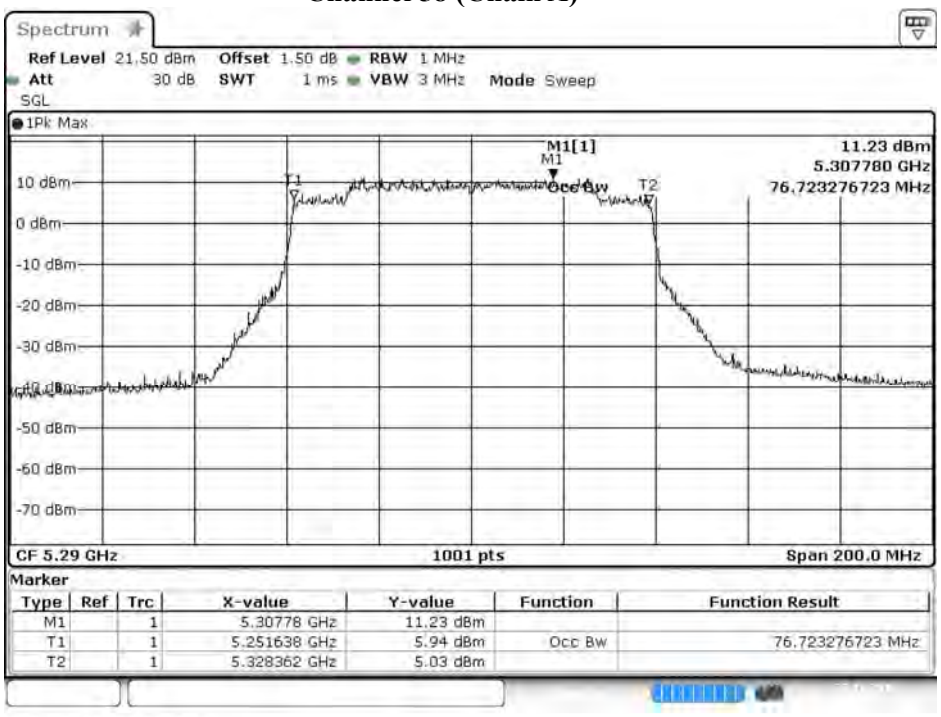
Channel 42(Chain A)



Channel 42(Chain B)

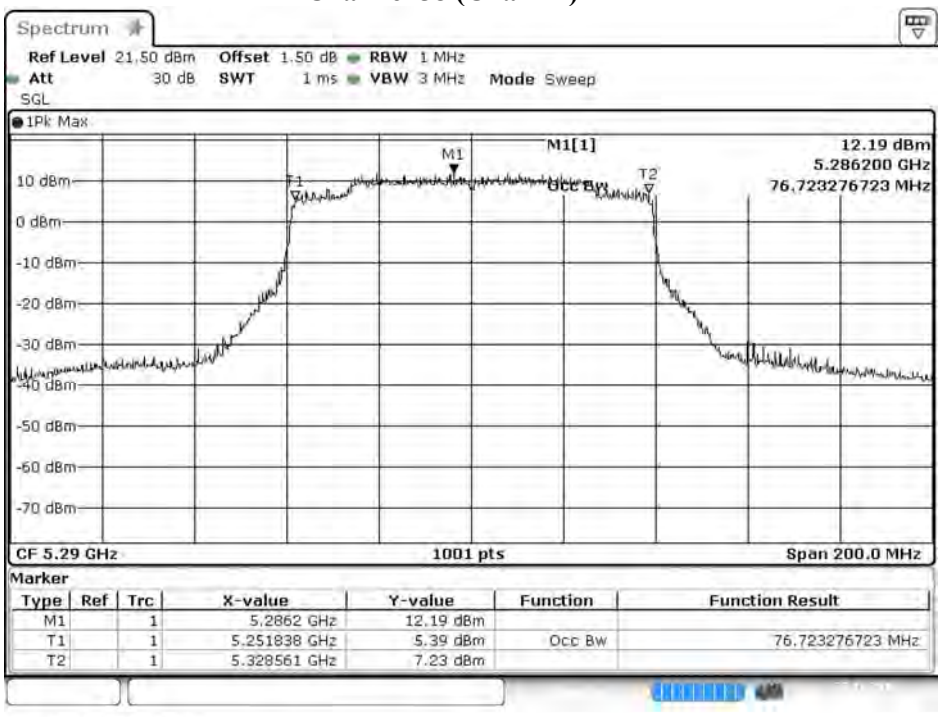


Channel 58 (Chain A)



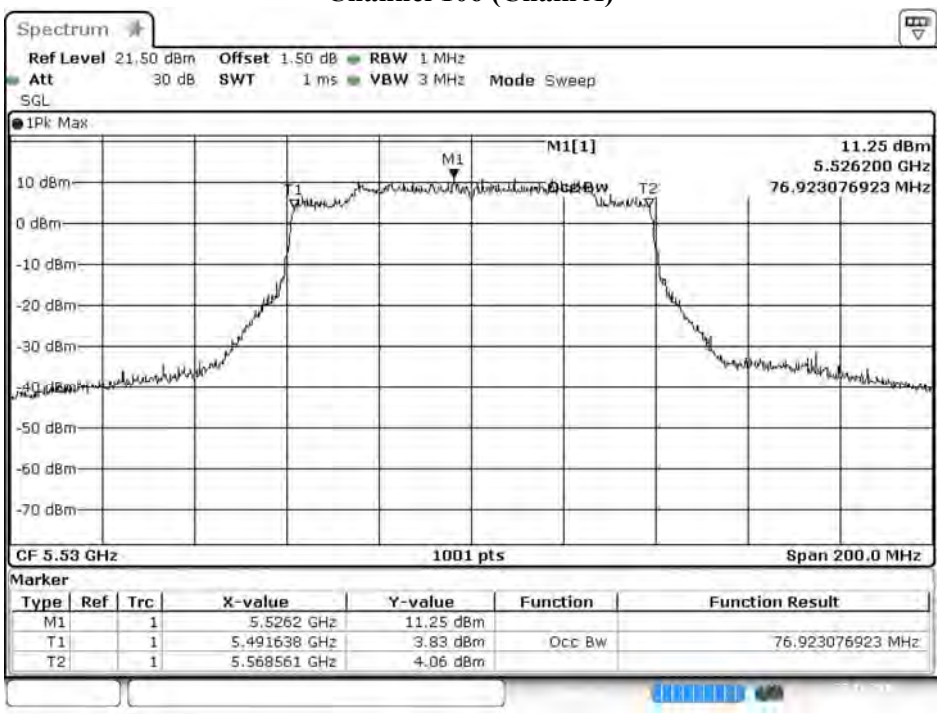
Date: 27 NOV.2018 17:14:20

Channel 58 (Chain B)



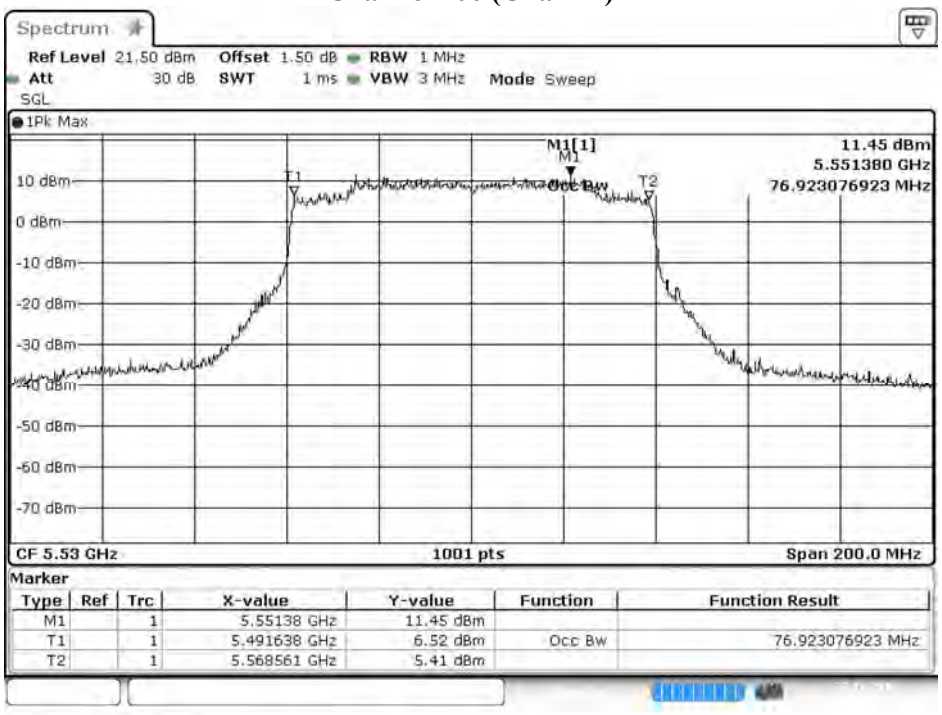
Date: 27 NOV.2018 18:16:55

Channel 106 (Chain A)



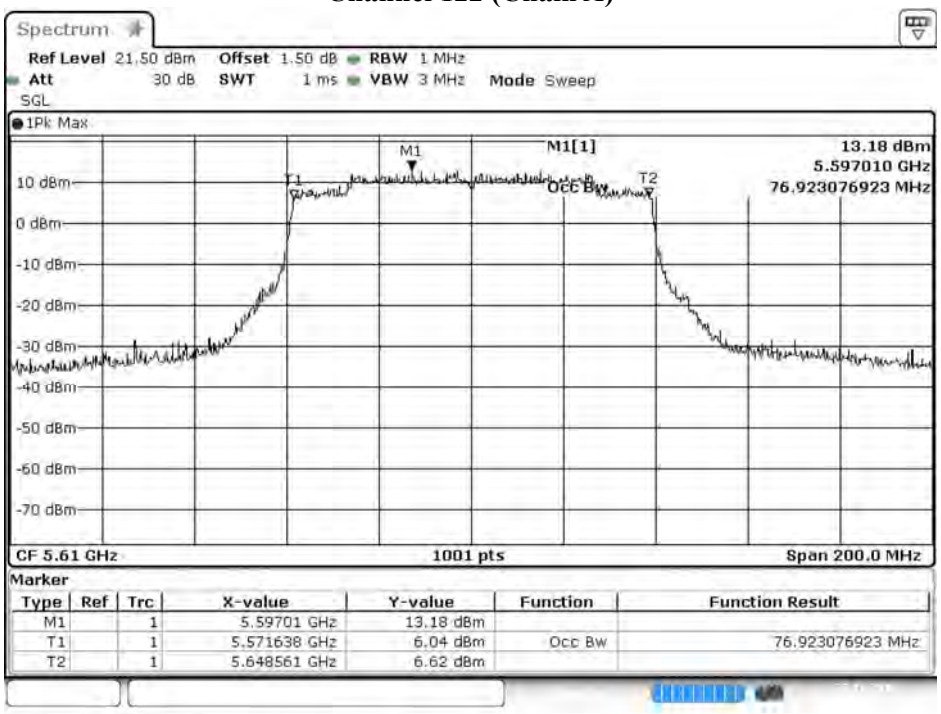
Date: 27 NOV.2018 17:16:07

Channel 106 (Chain B)



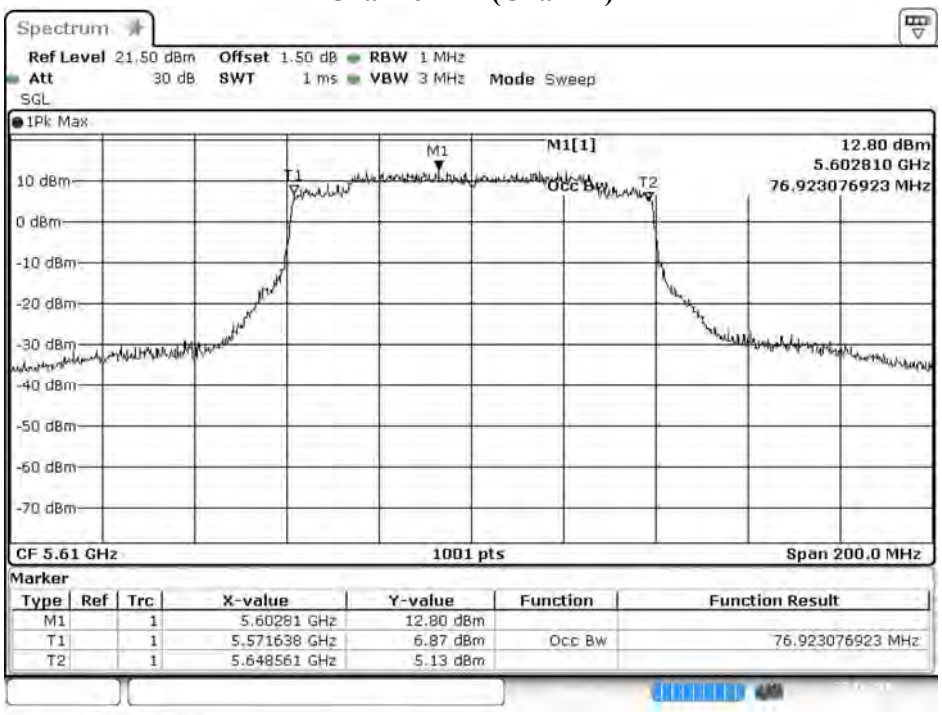
Date: 27 NOV.2018 18:18:41

Channel 122 (Chain A)



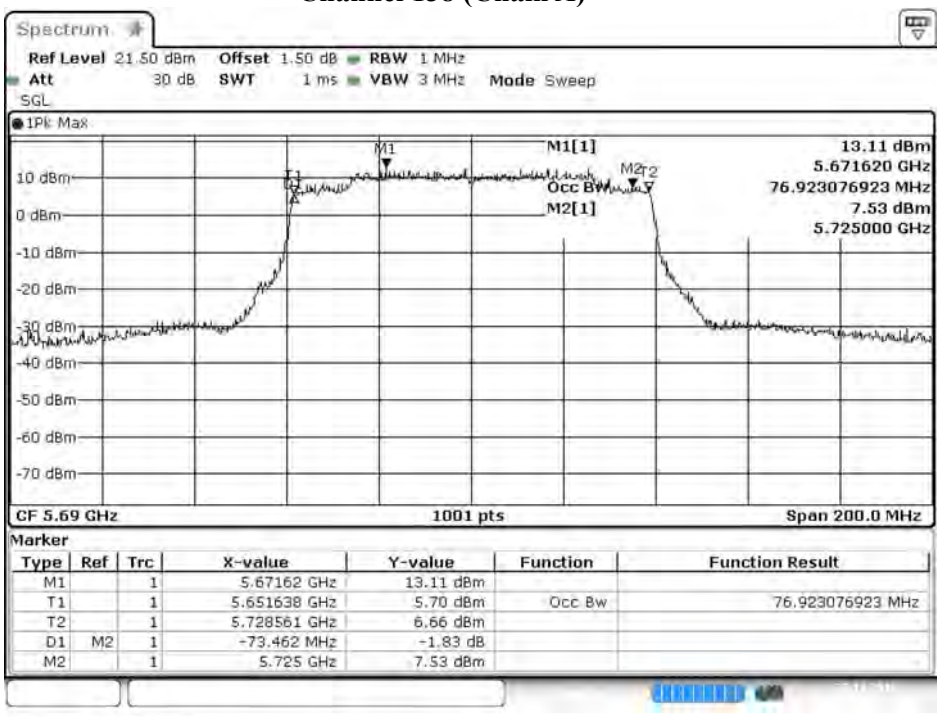
Date: 27 NOV.2018 17:17:37

Channel 122 (Chain B)



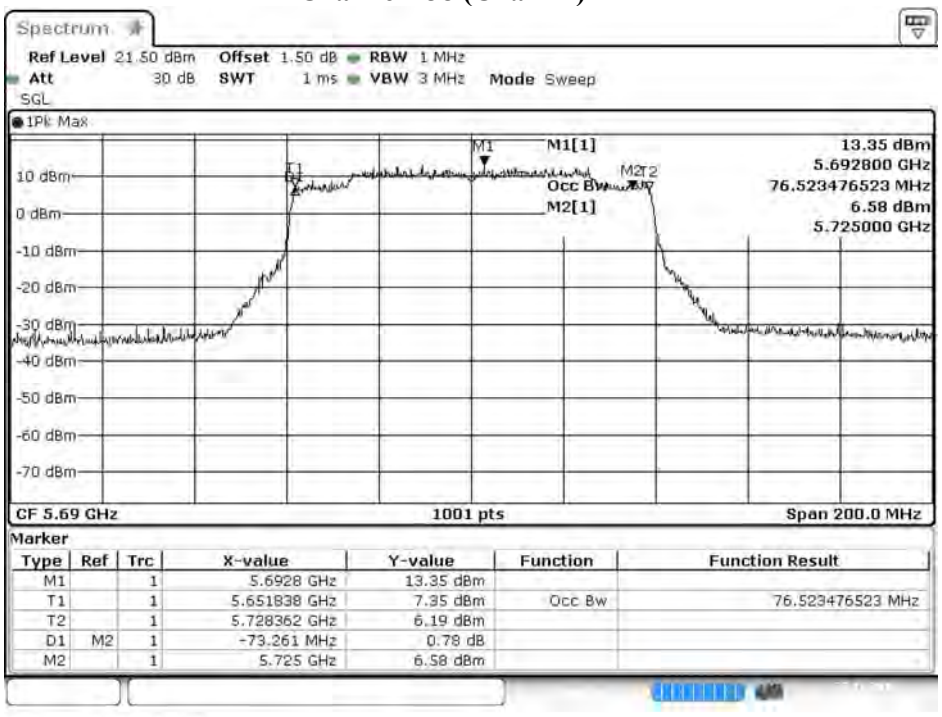
Date: 27 NOV.2018 18:20:11

Channel 138 (Chain A)



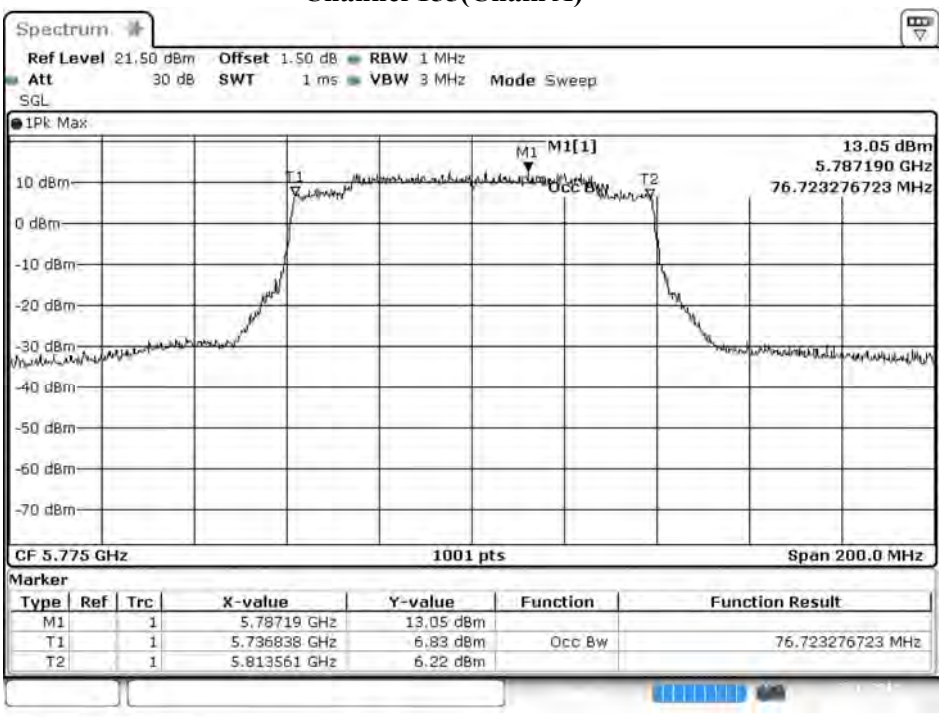
Date: 27 NOV.2018 17:29:52

Channel 138 (Chain B)



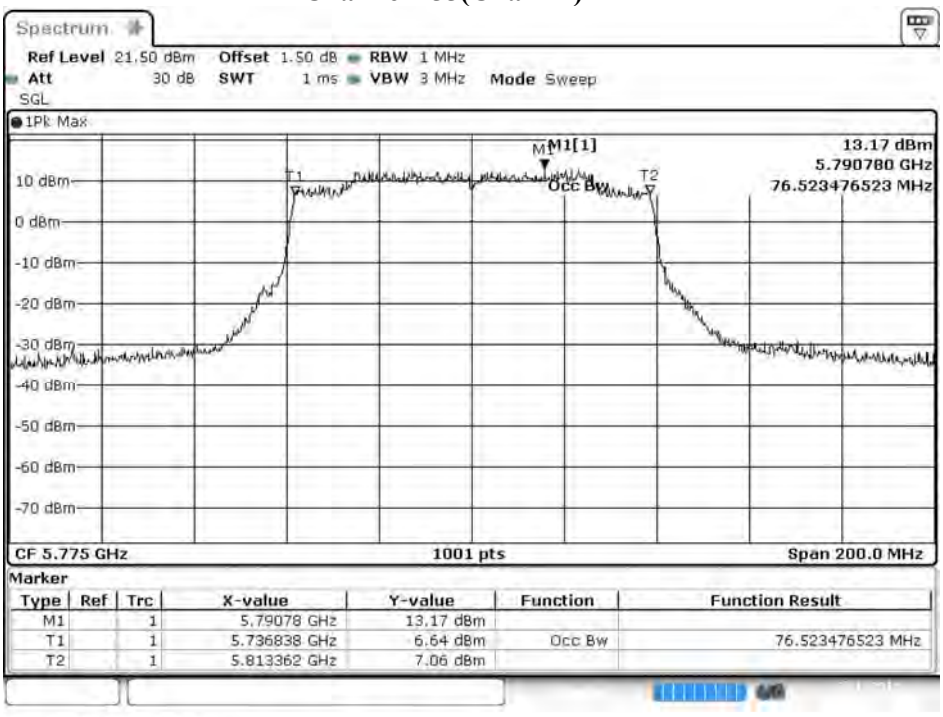
Date: 27 NOV.2018 18:32:27

Channel 155(Chain A)



Date: 27.NOV.2018 17:22:15

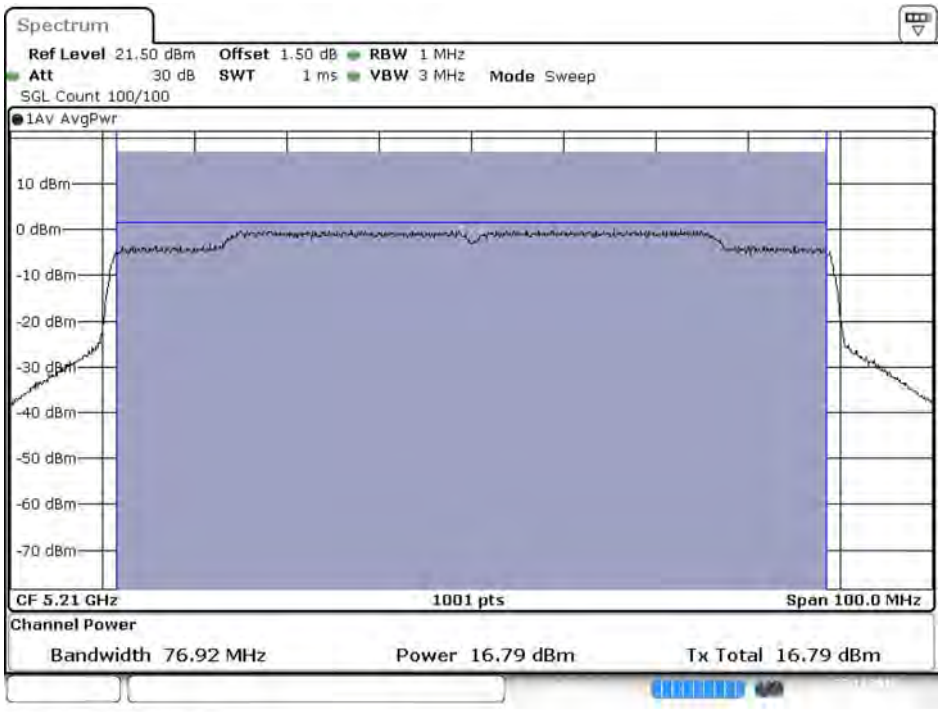
Channel 155(Chain B)



Date: 27.NOV.2018 18:24:50

Maximum conducted output power:

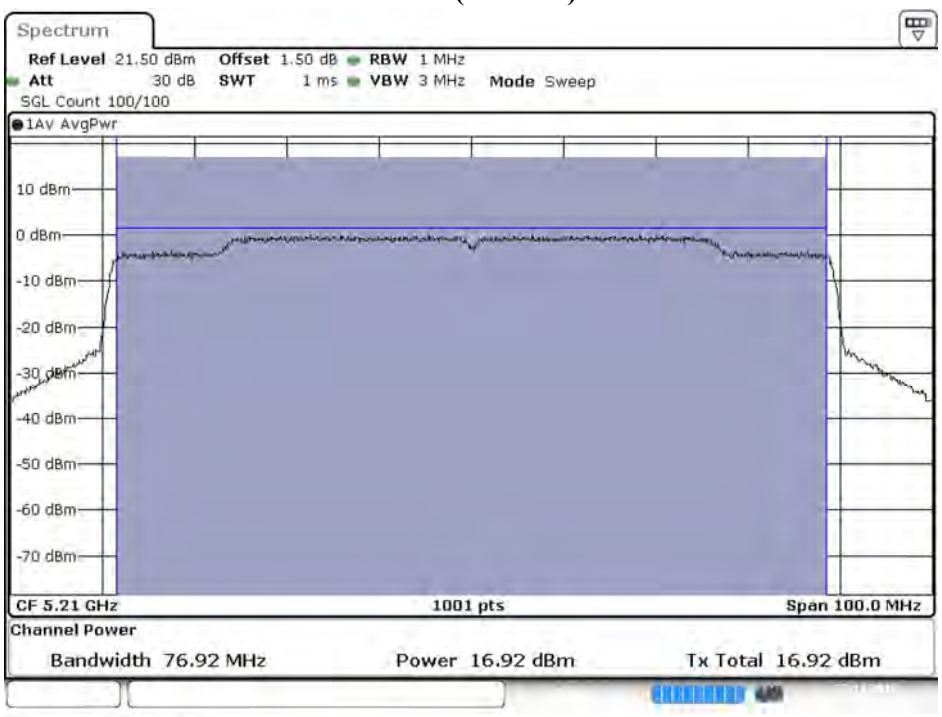
Channel 42 (Chain A)



Date: 27 NOV.2018 17:06:43

Maximum conducted output power:

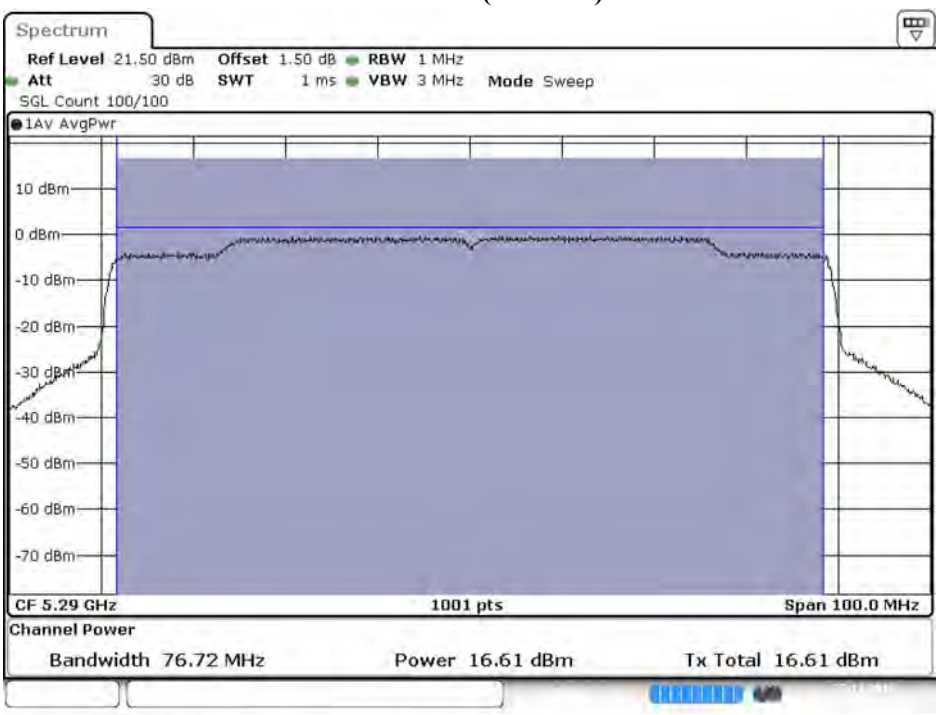
Channel 42 (Chain B)



Date: 27 NOV.2018 18:09:17

Maximum conducted output power:

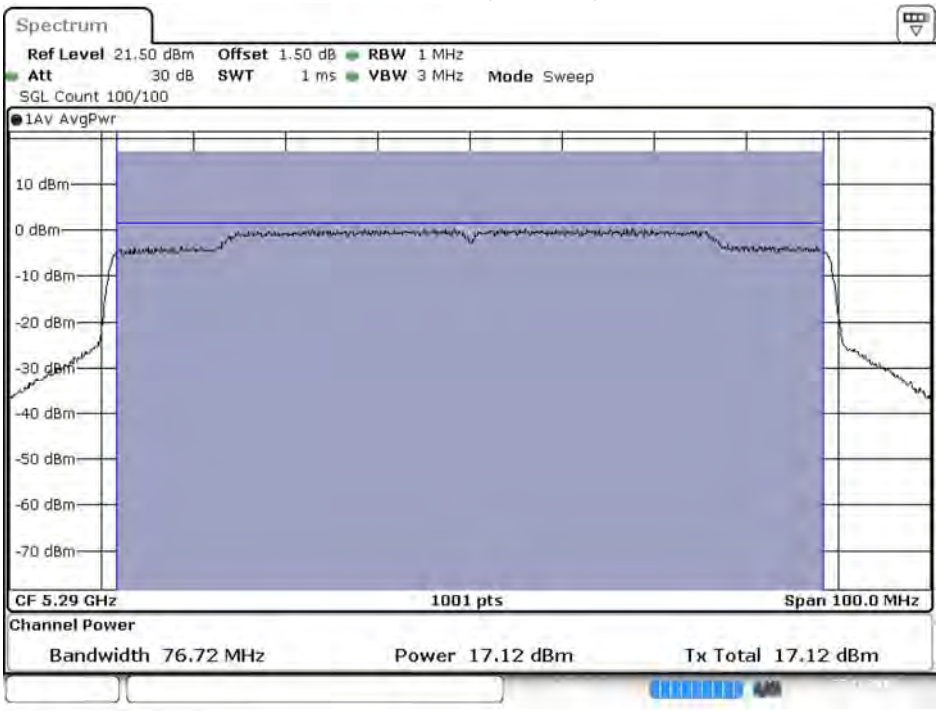
Channel 58 (Chain A)



Date: 27 NOV.2018 17:14:45

Maximum conducted output power:

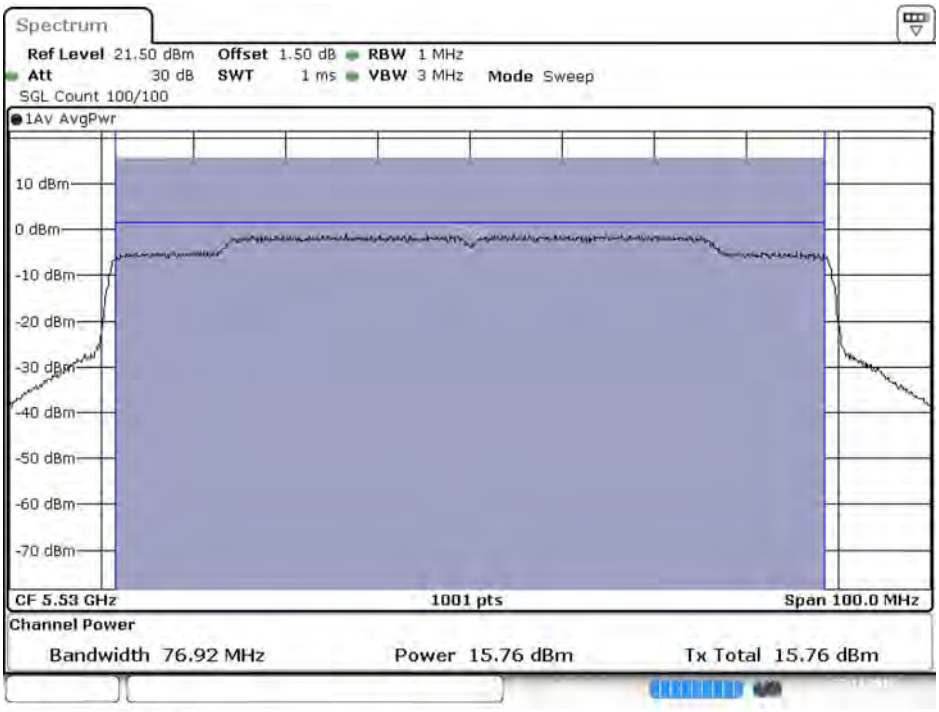
Channel 58 (Chain B)



Date: 27 NOV.2018 18:17:20

Maximum conducted output power:

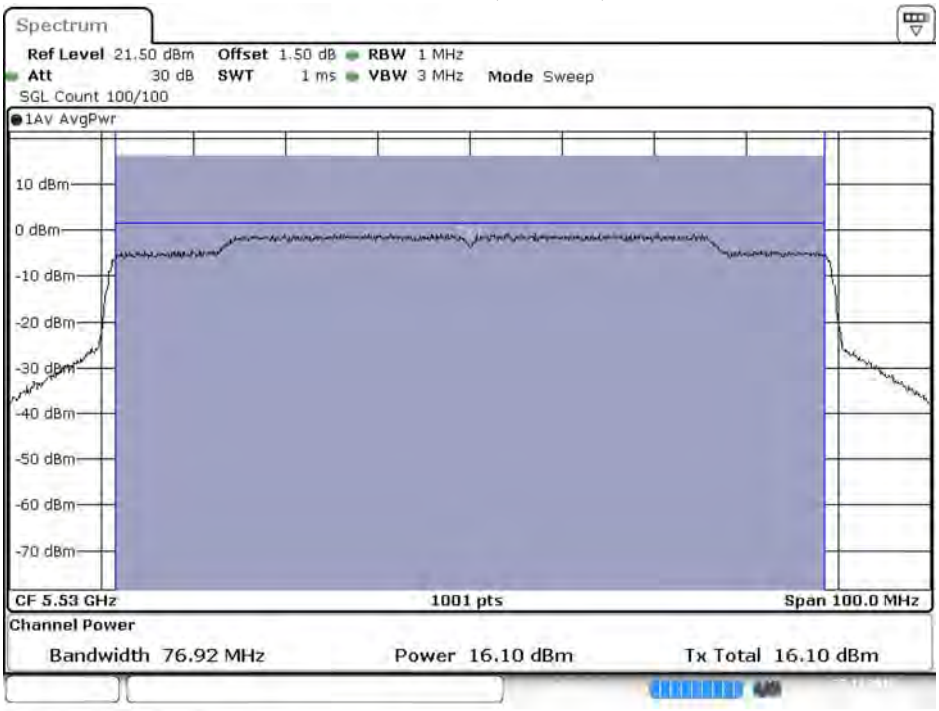
Channel 106 (Chain A)



Date: 27.NOV.2018 17:16:31

Maximum conducted output power:

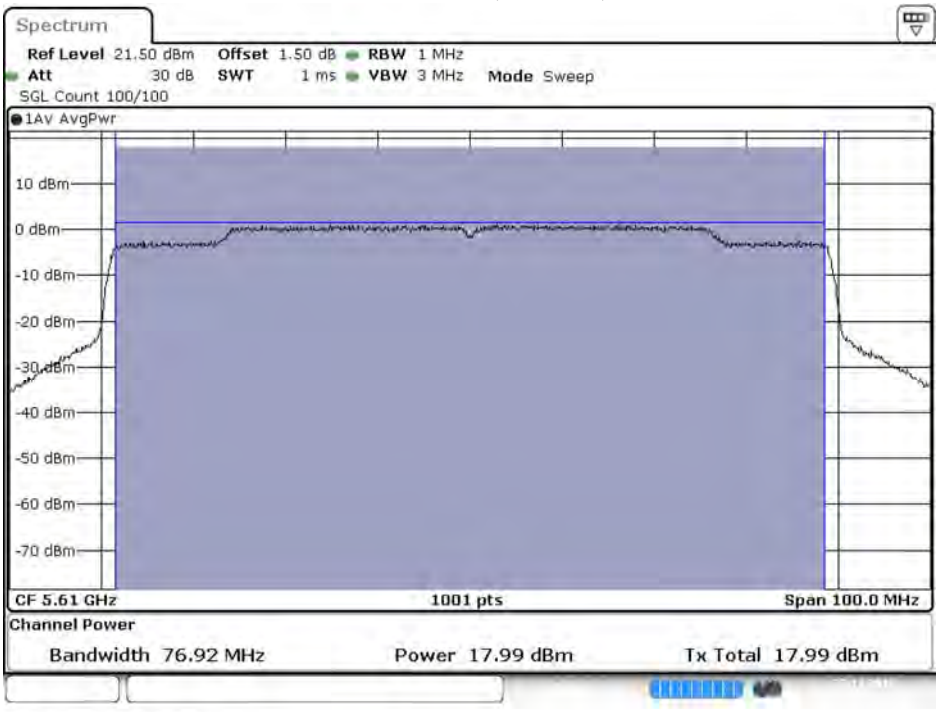
Channel 106 (Chain B)



Date: 27.NOV.2018 18:19:06

Maximum conducted output power:

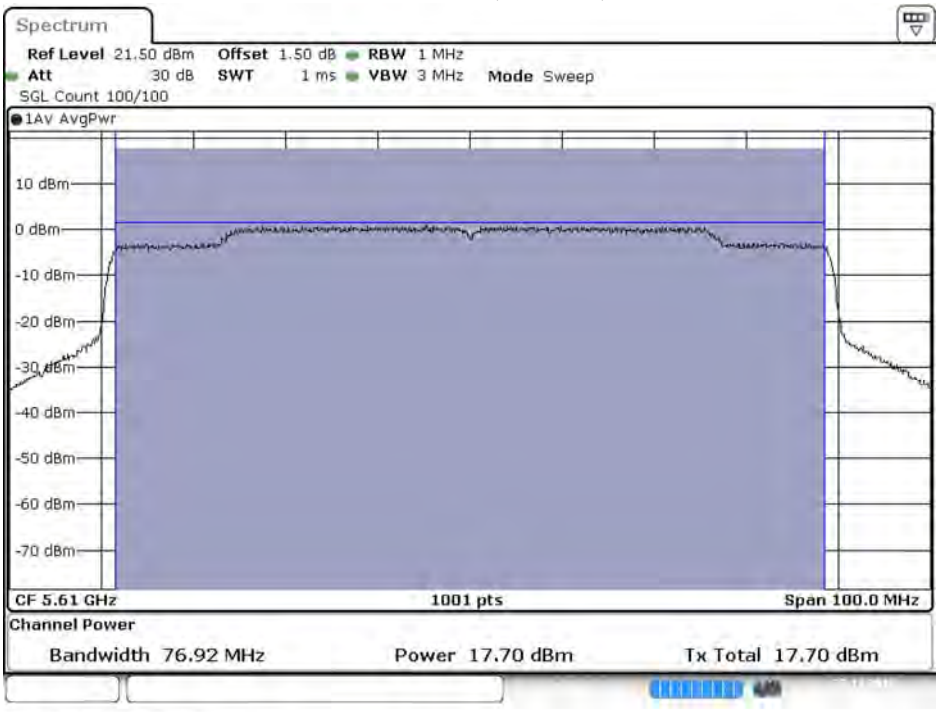
Channel 122 (Chain A)



Date: 27.NOV.2018 17:18:25

Maximum conducted output power:

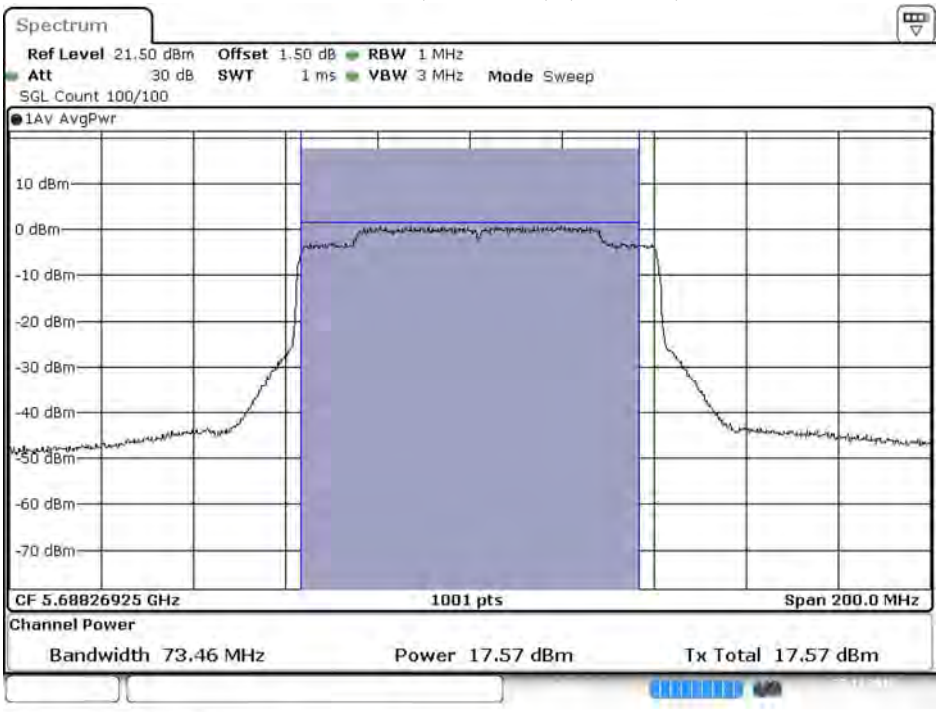
Channel 122 (Chain B)



Date: 27.NOV.2018 18:21:00

Maximum conducted output power:

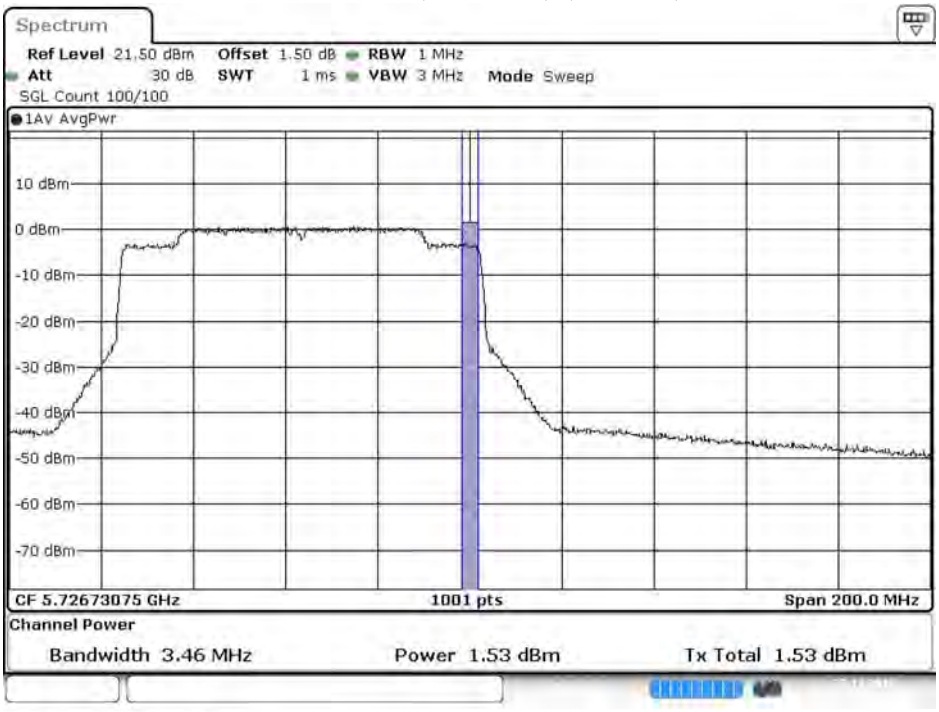
Channel 138 (U-NII-2C) (Chain A)



Date: 27 NOV.2018 17:31:31

Maximum conducted output power:

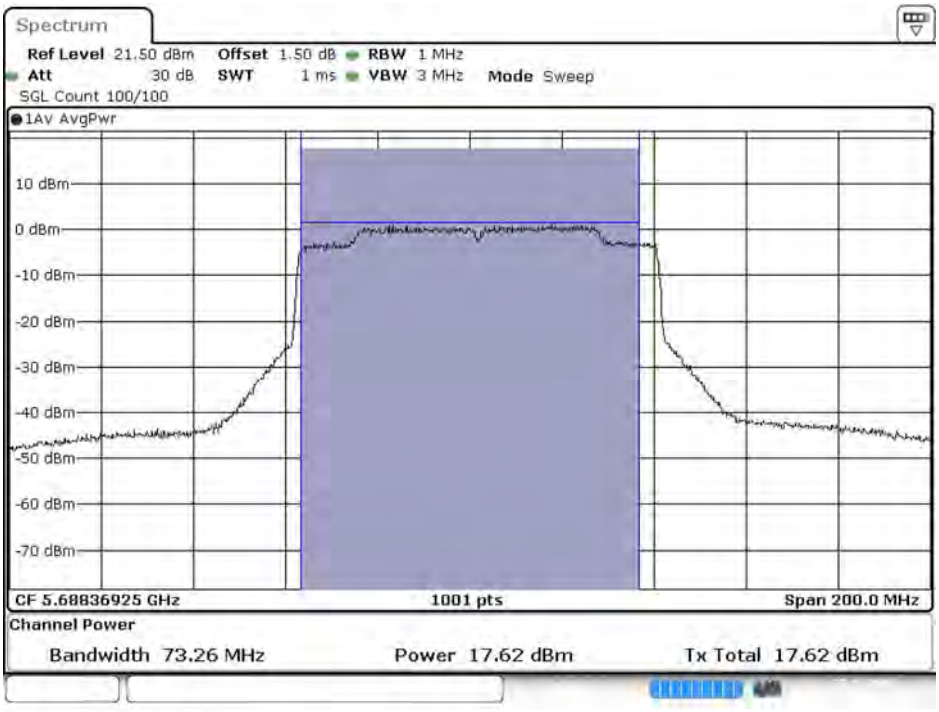
Channel 138 (U-NII-2C) (Chain A)



Date: 27 NOV.2018 17:31:53

Maximum conducted output power:

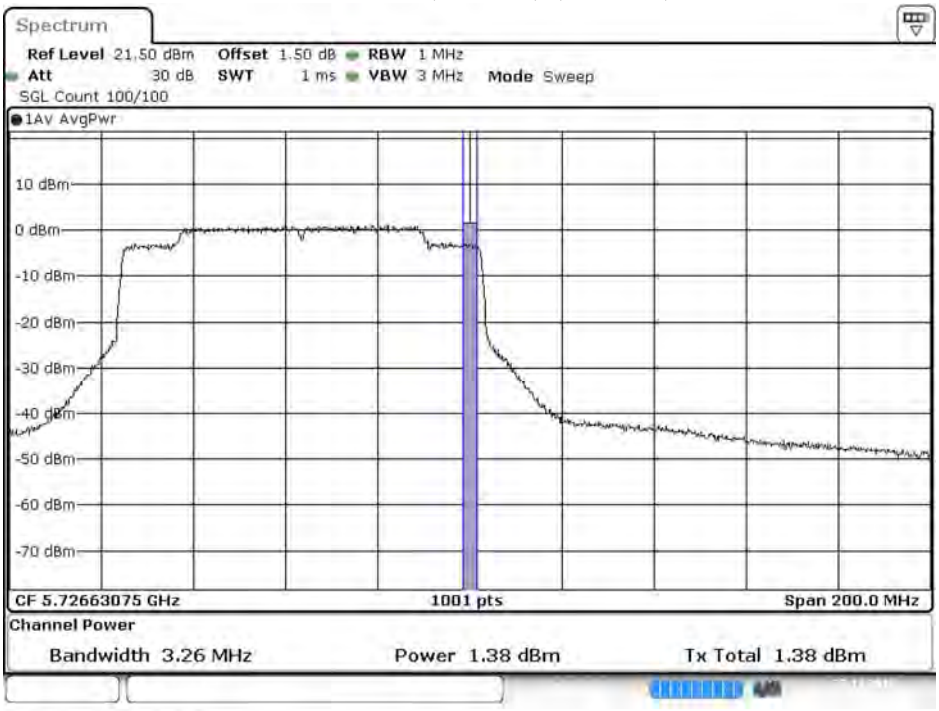
Channel 138 (U-NII-3) (Chain B)



Date: 27.NOV.2018 18:34:06

Maximum conducted output power:

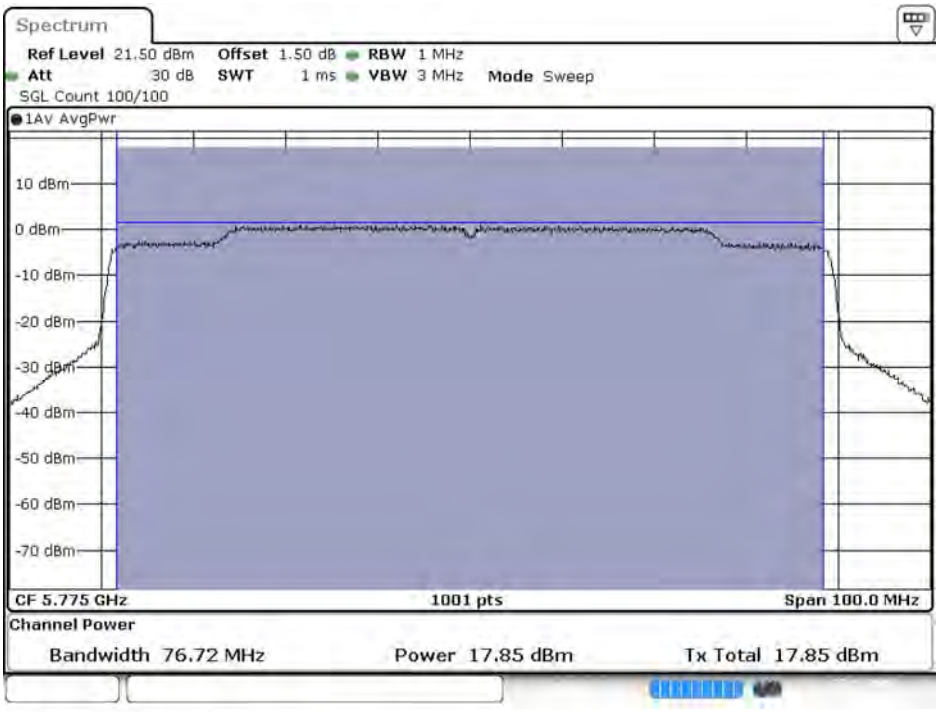
Channel 138 (U-NII-3) (Chain B)



Date: 27.NOV.2018 18:34:30

Maximum conducted output power:

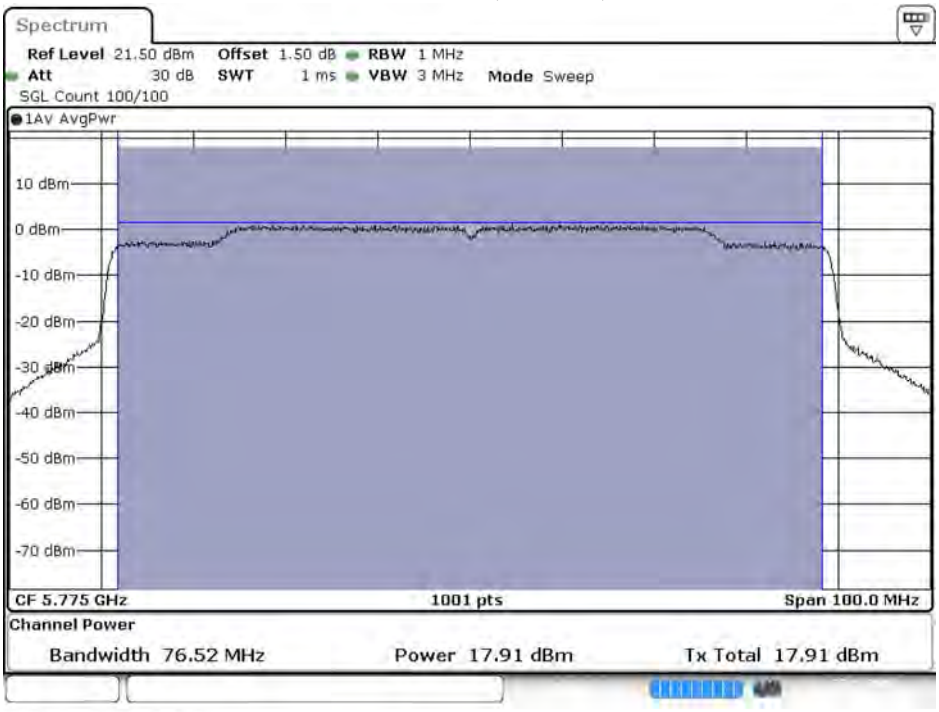
Channel 155 (Chain A)



Date: 27 NOV.2018 17:22:40

Maximum conducted output power:

Channel 155 (Chain B)



Date: 27 NOV.2018 18:25:14

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL　　測試項目：峰值發射功率
測試頻道：--　　測試模式：Mode 3: MIMO: 發射器 802.11ax-160BW
6 dB 頻寬：1MHz　　視頻頻寬：3MHz
檢測器：峰值　　環境溫度：21 ℃
測試日期：107 年 11 月 27 日　　環境濕度：53 %

Chain A

Cable loss=1.5dB		Maximum conducted output power											
Channel No	Frequency (MHz)	Data Rate											
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
50 (U-NII-1)	5250	10.50	10.44	10.40	10.35	10.29	10.23	10.18	10.13	10.08	10.02	9.97	9.92
50 (U-NII-2A)	5250	10.91	10.87	10.82	10.77	10.72	10.67	10.62	10.57	10.53	10.48	10.43	10.38
114	5570	14.67	14.61	14.57	14.52	14.47	14.42	14.37	14.32	14.27	14.23	14.18	14.13

Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

Chain B

Cable loss=1.5dB		Maximum conducted output power											
Channel No	Frequency (MHz)	Data Rate											
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
50 (U-NII-1)	5250	10.39	10.33	10.28	10.21	10.17	10.11	10.05	10.00	9.94	9.88	9.83	9.77
50 (U-NII-2A)	5250	10.68	10.62	10.58	10.52	10.47	10.42	10.37	10.31	10.26	10.21	10.16	10.11
114	5570	14.58	14.52	14.48	14.41	14.37	14.32	14.26	14.21	14.16	14.11	14.06	14.00

Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

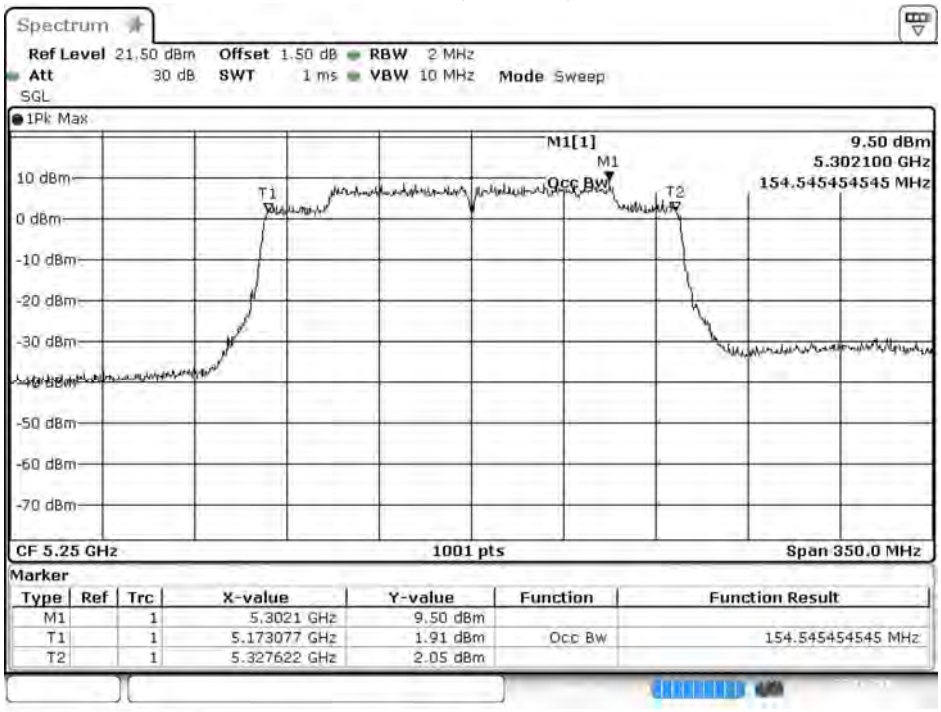
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
50 (U-NII-1)	5250	--	10.50	10.39	13.46	24	--
50 (U-NII-2A)	5250	77.273	10.91	10.68	13.81	24	29.88
114	5570	154.895	14.67	14.58	17.64	24	32.90

Note:
1. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
2. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

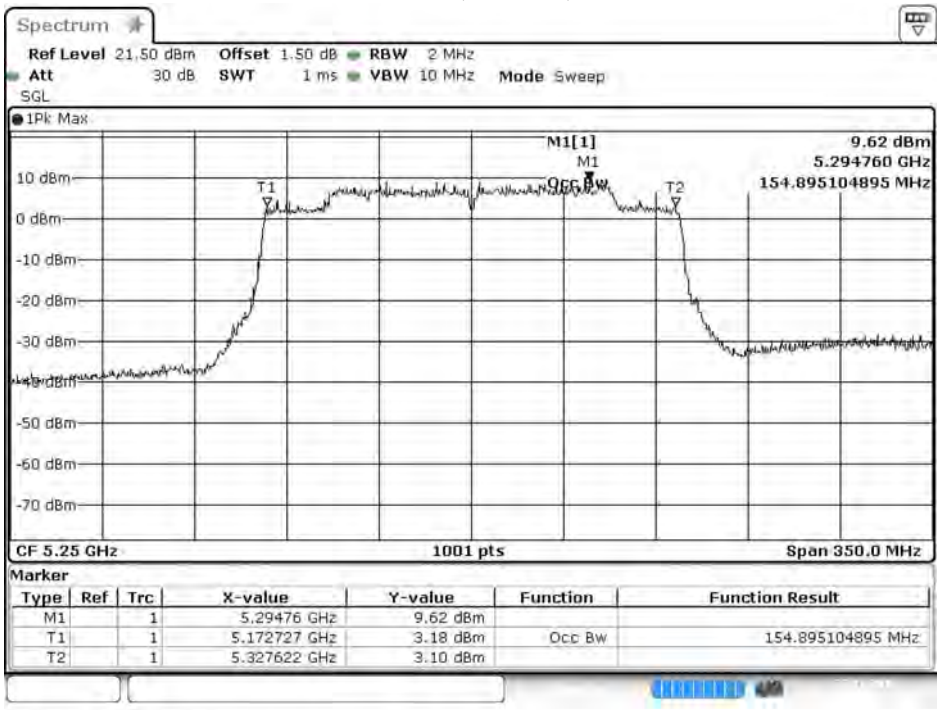
99% Occupied Bandwidth:

Channel 50 (Chain A)



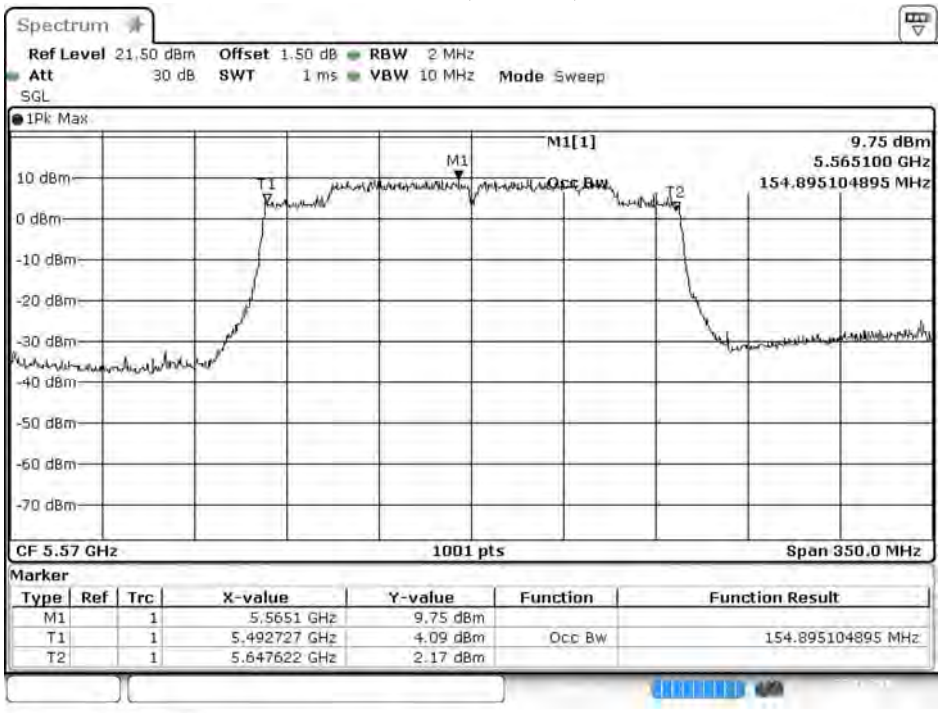
Date: 27.NOV.2018 16:52:57

Channel 50 (Chain B)



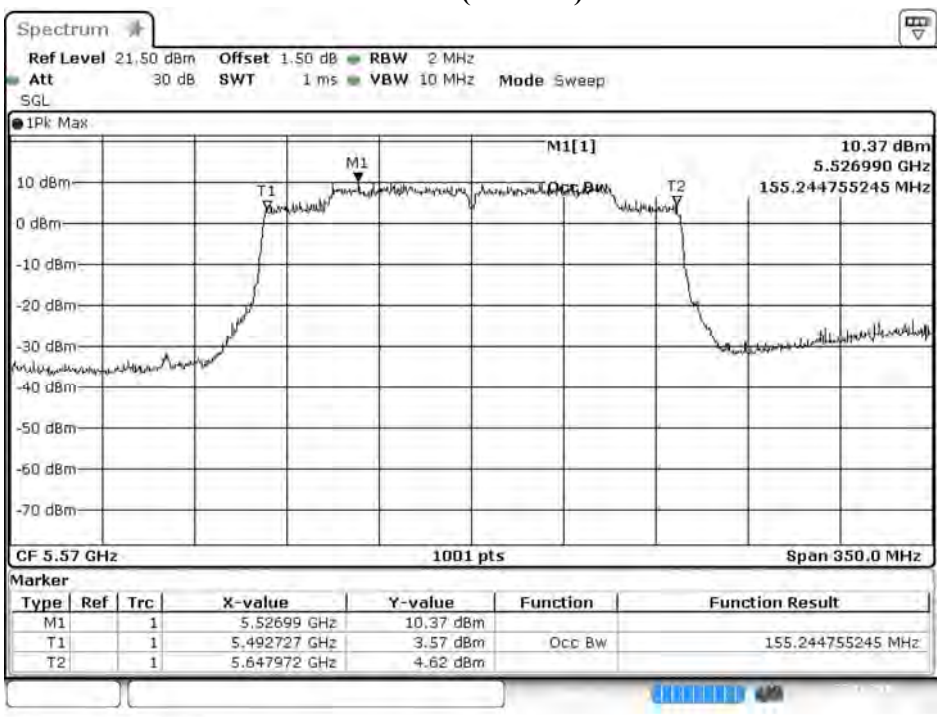
Date: 27.NOV.2018 17:55:32

Channel 114 (Chain A)



Date: 27.NOV.2018 16:56:57

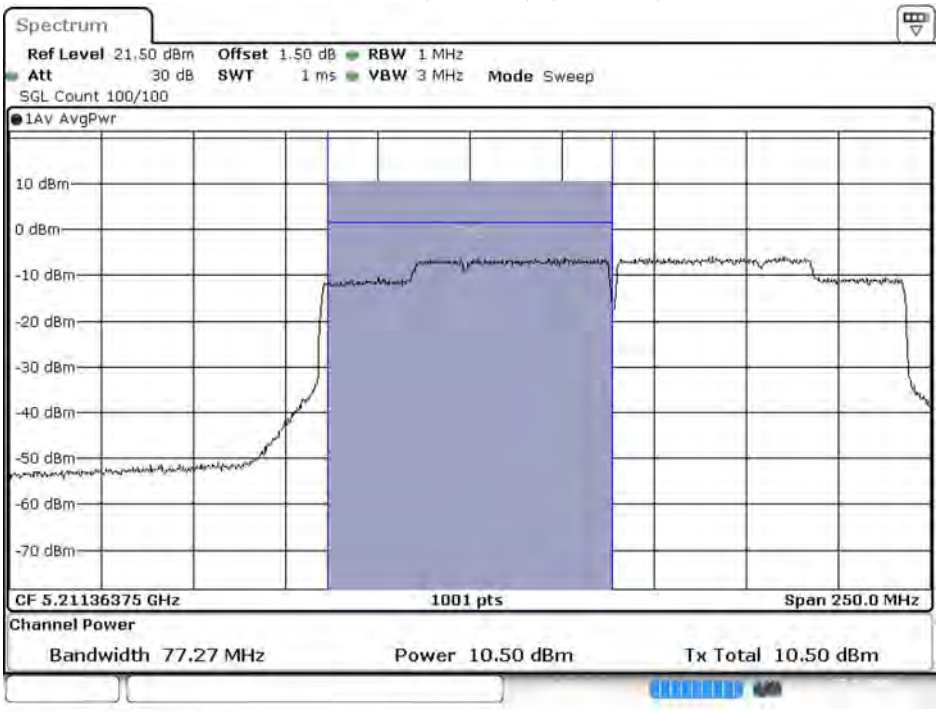
Channel 114 (Chain B)



Date: 27.NOV.2018 17:59:31

Maximum conducted output power:

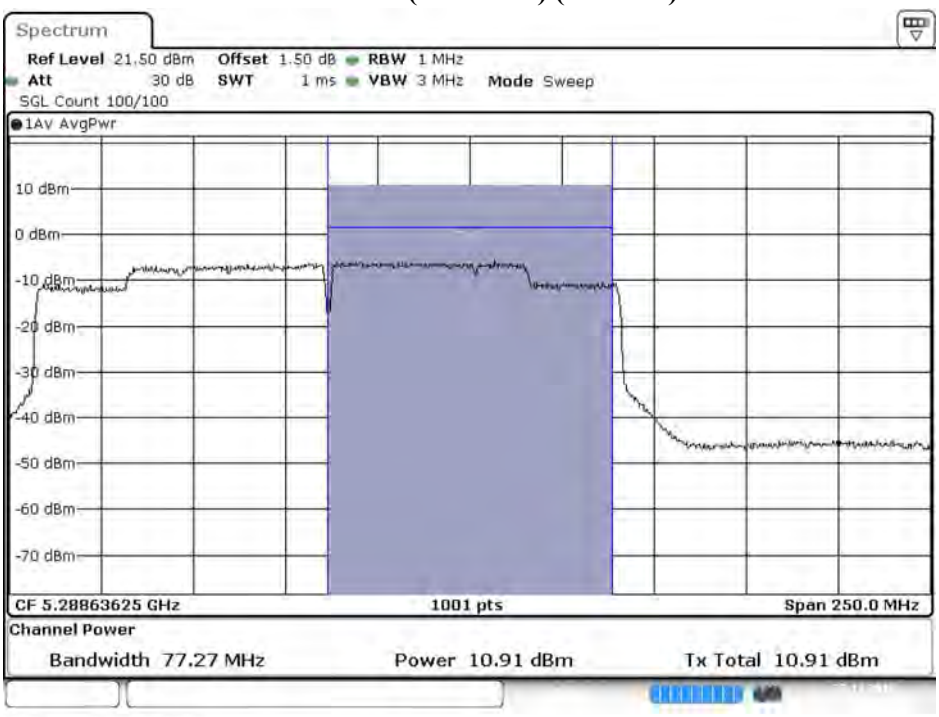
Channel 50 (U-NII-1) (Chain A)



Date: 27 NOV.2018 16:53:22

Maximum conducted output power:

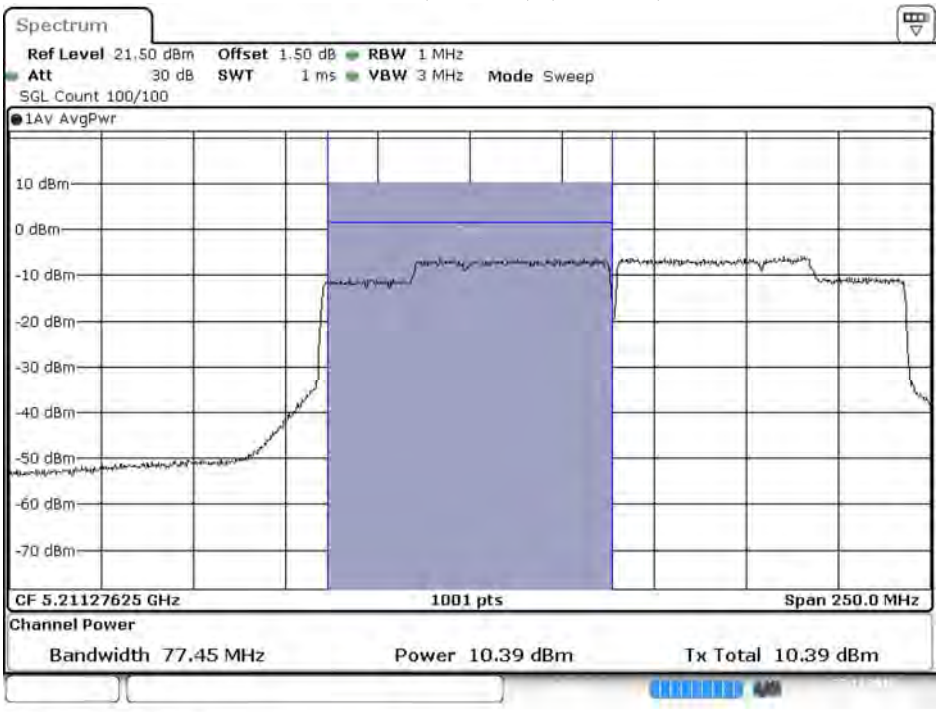
Channel 50 (U-NII-2A) (Chain A)



Date: 27 NOV.2018 16:53:44

Maximum conducted output power:

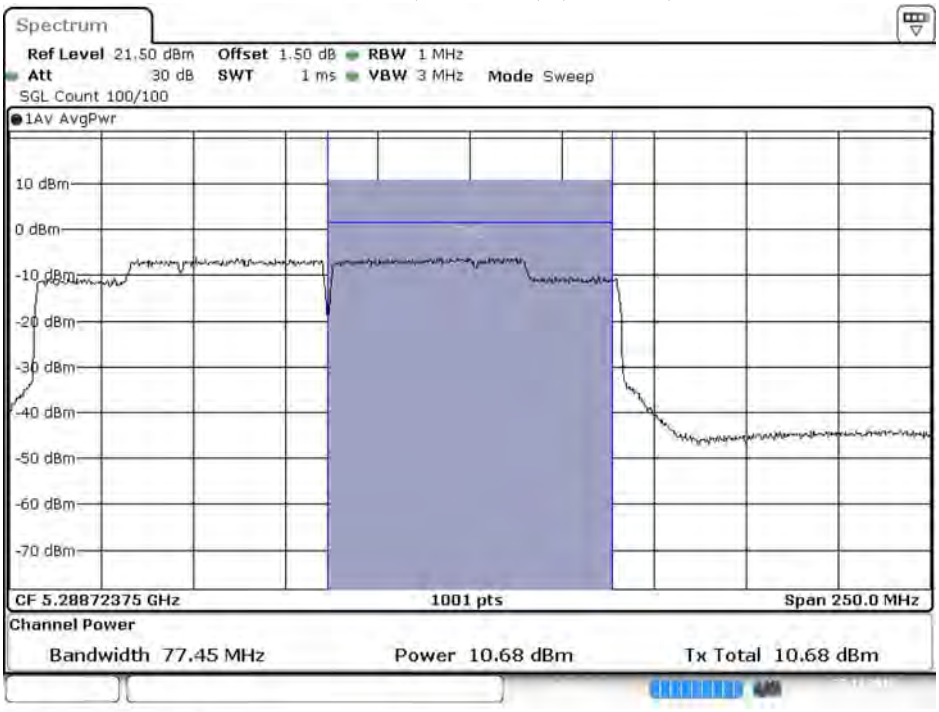
Channel 50 (U-NII-1) (Chain B)



Date: 27 NOV.2018 17:55:56

Maximum conducted output power:

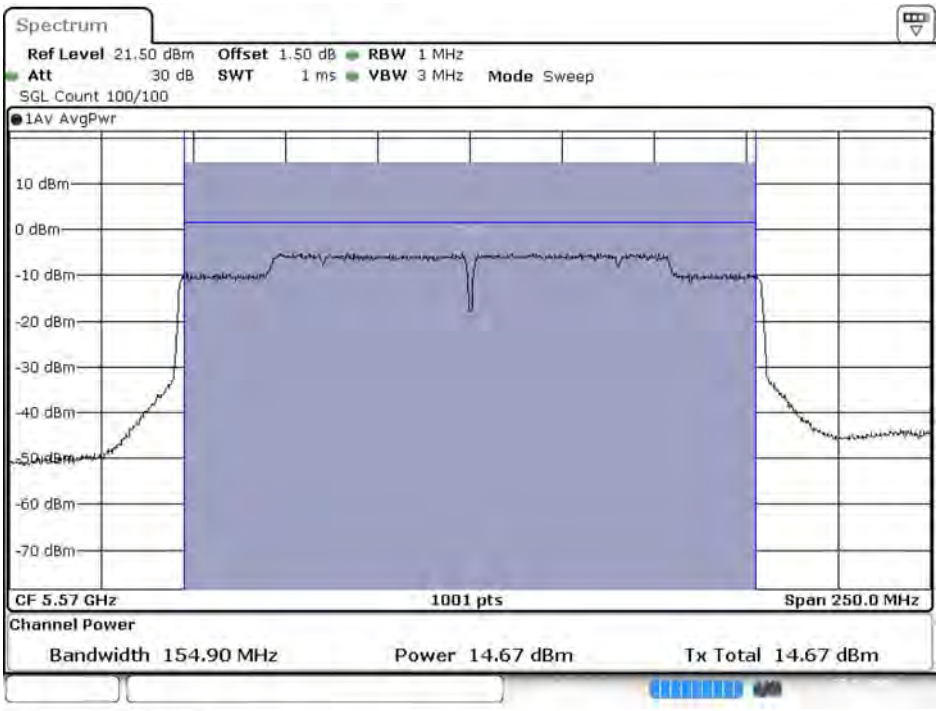
Channel 50 (U-NII-2A) (Chain B)



Date: 27 NOV.2018 17:56:20

Maximum conducted output power:

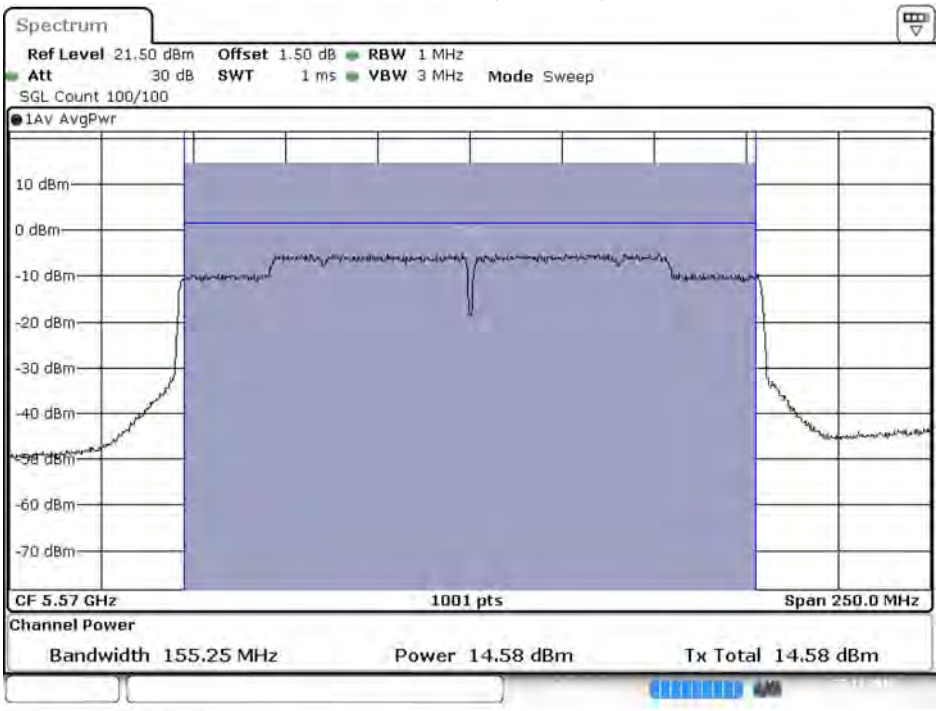
Channel 114 (Chain A)



Date: 27 NOV.2018 16:57:21

Maximum conducted output power:

Channel 114 (Chain B)



Date: 27 NOV.2018 17:59:56

峰值發射功率測試結果:	**PASS**

6. 峰值功率頻譜密度

6.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 4.7.3 節

4.7.3.1 使用於 5.15 GHz～5.25 GHz 頻段

(1) 供戶外操作使用:

(A) 最大傳導輸出功率應小於或等於 1 W。

(B) 在任何 1 MHz 頻帶中最大功率頻譜密度應小於或等於 17 dBm。

(C) 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(D) 在水平面仰角超過 30 度時，其最大 EIRP 應小於或等於 21 dBm。

(2) 供室內操作使用:

(A) 最大傳導輸出功率應小於或等於 1 W。

(B) 在任何 1 MHz 頻帶中最大功率頻譜密度應小於或等於 17 dBm。

(C) 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 供固定式點對點操作使用:

(A) 最大傳導輸出功率應小於或等於 1 W。

(B) 在任何 1 MHz 頻帶中最大功率頻譜密度應小於或等於 17 dBm。

(C) 使用超過 23 dBi 方向增益之指向性天線時，應依超過 23 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用:

(A) 最大傳導輸出功率應小於或等於 250 mW。

(B) 在任何 1 MHz 頻帶中最大功率頻譜密度應小於或等於 11 dBm。

(C) 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

4.7.3.2 使用頻率於 5.25 GHz～5.35 GHz 與 5.470 GHz～5.725 GHz 頻段

(1) 最大傳導輸出功率應小於或等於 250 mW 或 11dBm+10log B (B 是 26 dB 發射頻寬，單位 MHz)之較小者。

(2) 最大功率頻譜密度在任何 1 MHz 頻帶中應小於或等於 11 dBm。

(3) 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

4.7.3.3 使用頻率於 5.725 GHz～5.850 GHz 頻段

(1) 最大傳導輸出功率應小於或等於 1 W。

(2) 在任何 500 kHz 頻帶中最大功率頻譜密度應小於或等於 30 dBm。

(3) 供固定式點對點操作時，使用方向增益超過 6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。

(4) 除(3)外，使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度

6.2. 量測方法

(A) 應將測試儀器直接連接待測物，以傳導方式執行。

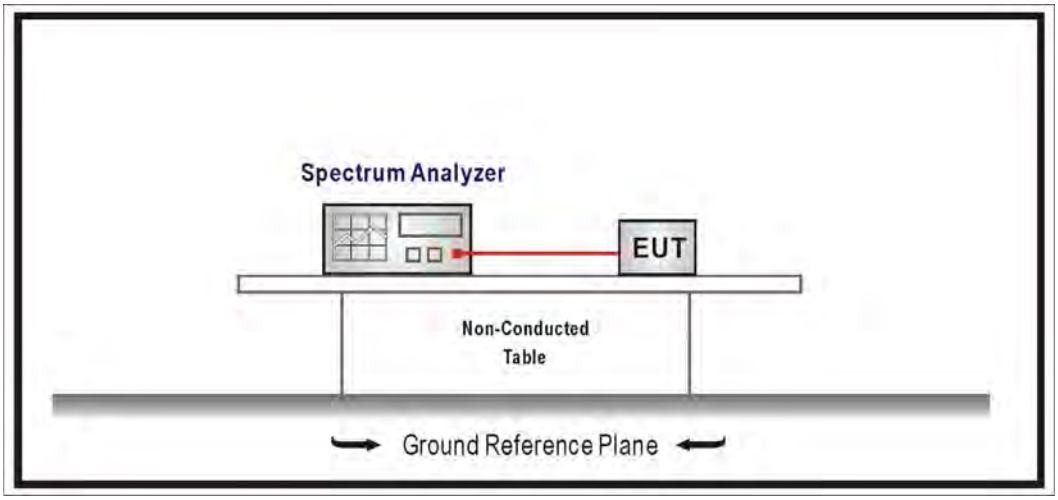
(B) 5.15 GHz～5.25 GHz、5.25 GHz～5.35 GHz 及 5.47 GHz～5.725 GHz 頻段，測試儀器之頻寬應設定為 1 MHz 頻寬或待測物之 26 dB 發射頻寬，兩者取較小者。

(C) 5.725 GHz～5.850 GHz 頻段，測試儀器之頻寬應設定為 500 kHz 或待測物之 26 dB 發射頻寬，兩者取較小者。

(D) 解析頻寬小於(B)或(C)時，應以補償方式計算總功率頻譜密度。

For the band 5.725-5.85 GHz, Scale the observed power level to an equivalent value in 500 kHz by adjusting (increase) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (500 kHz/100 kHz) = 6.98 dB.

6.3. 測試架構圖



6.4. 量測不確定度

此項測試之量測不確定度為±1.30dB。

6.5. 峰值功率頻譜密度測試結果

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試項目：峰值功率頻譜密度
測試頻道：--
測試模式：Mode 1: SISO A: 發射器 802.11a
6 dB 頻寬：1MHz
視頻頻寬：3MHz
檢測器：峰值
環境溫度：21 ℃
測試日期：107 年 10 月 25 日
環境濕度：53 %

Channel Number	Frequency (MHz)	PPSD (dBm)	Required Limit (dBm)	Result
36	5180	8.22	<11	Pass
44	5220	8.07	<11	Pass
48	5240	7.80	<11	Pass
52	5260	7.73	<11	Pass
60	5300	7.42	<11	Pass
64	5320	7.49	<11	Pass
100	5500	7.85	<11	Pass
116	5580	7.95	<11	Pass
140	5700	7.67	<11	Pass

Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
149	5745	-0.44	6.98	6.54	<30	Pass
157	5785	-0.19	6.98	6.79	<30	Pass
165	5825	0.38	6.98	7.36	<30	Pass

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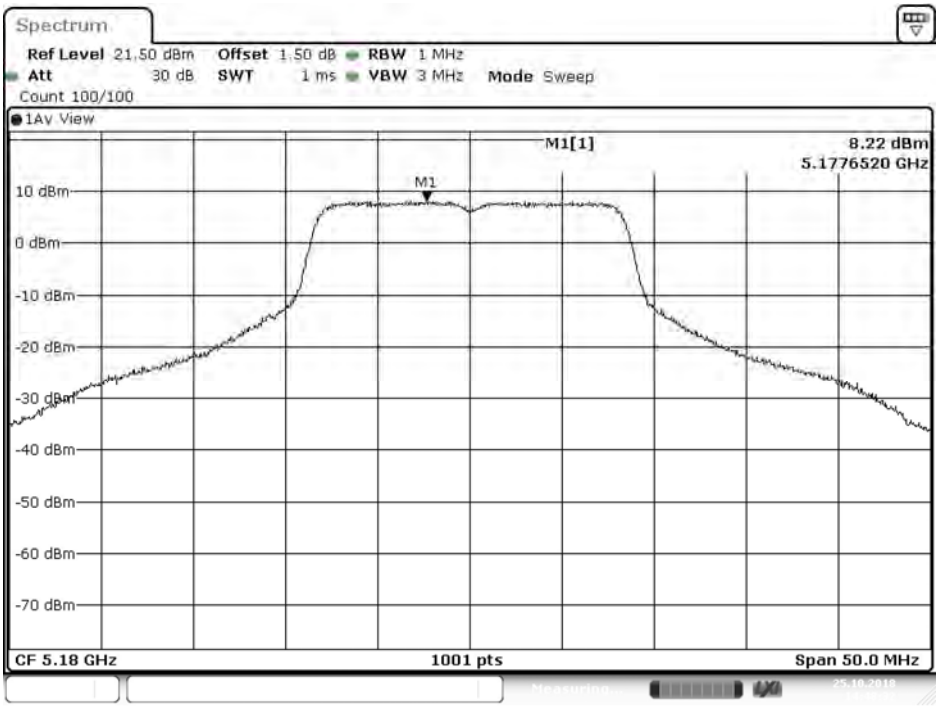
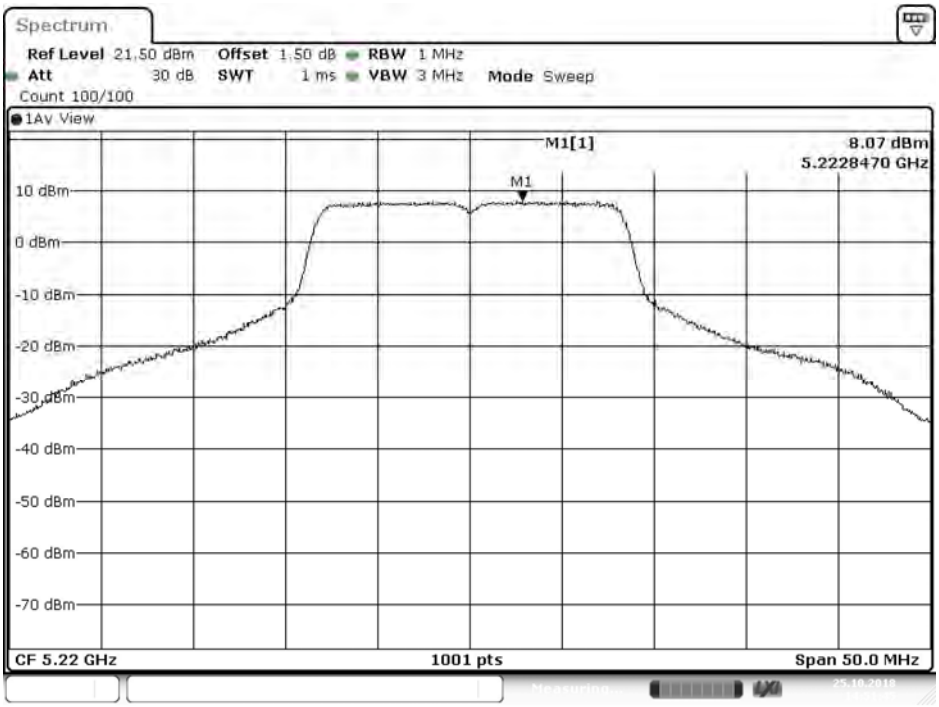
Channel 36



Date: 25.OCT.2018 14:48:33

Channel 44



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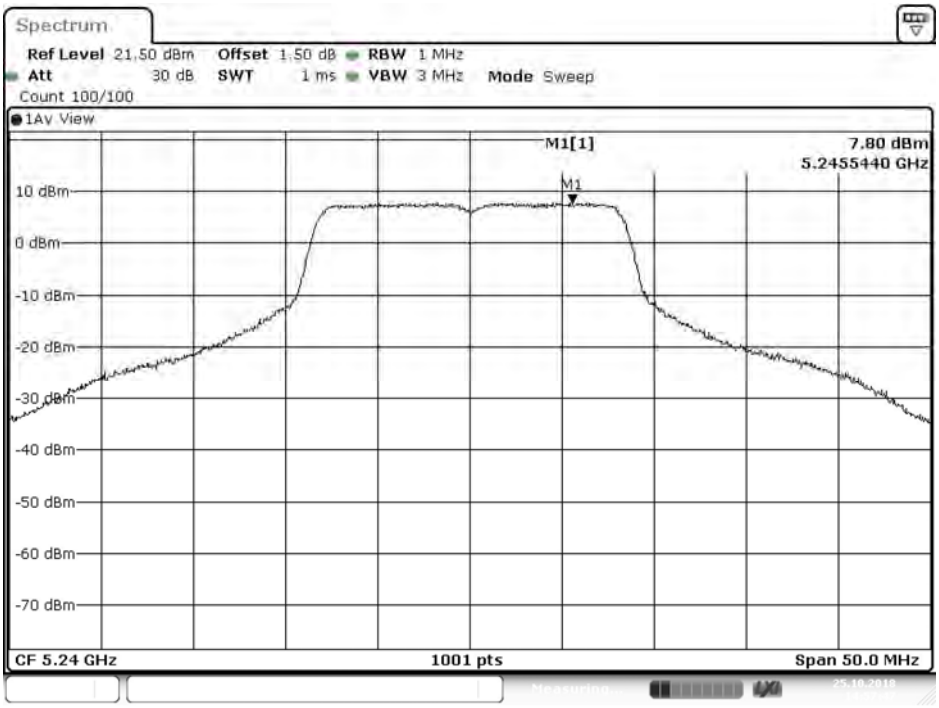
Channel 48



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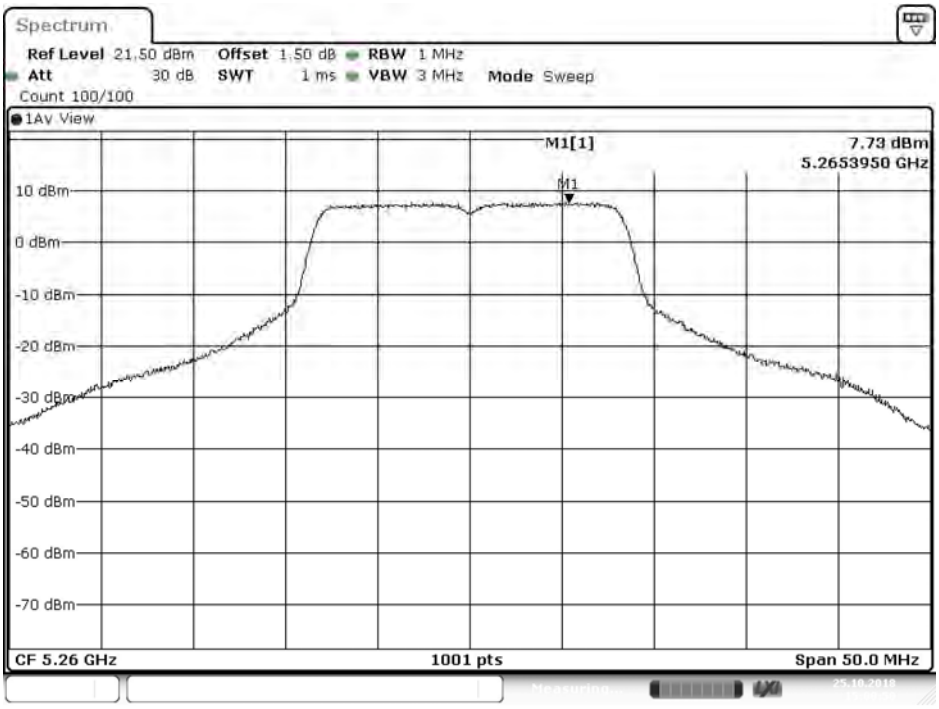
Channel 52



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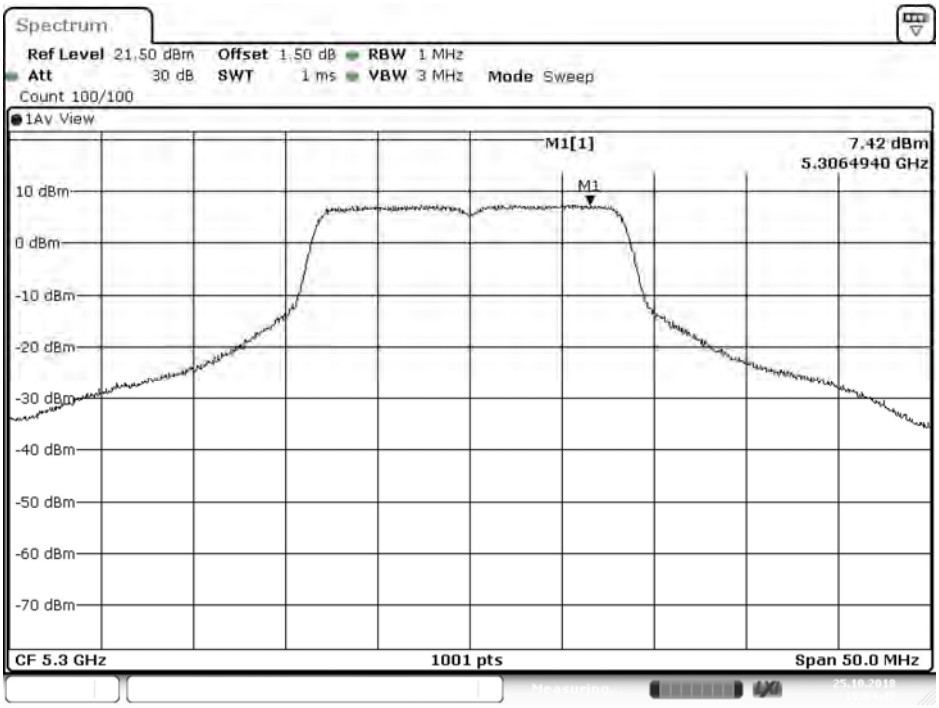
Channel 60



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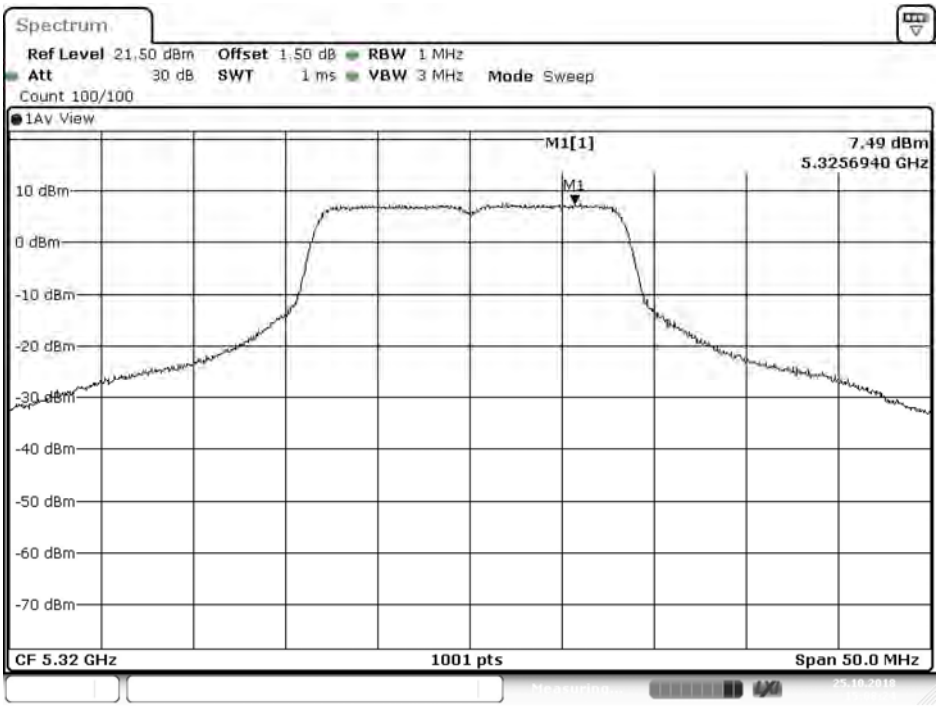
Channel 64



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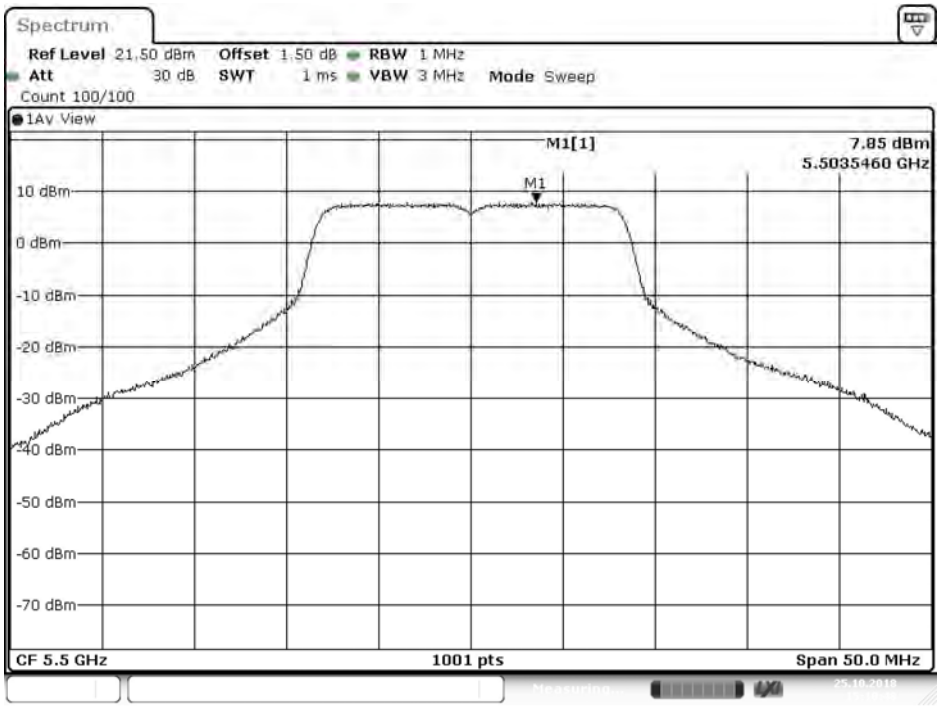
Channel 100



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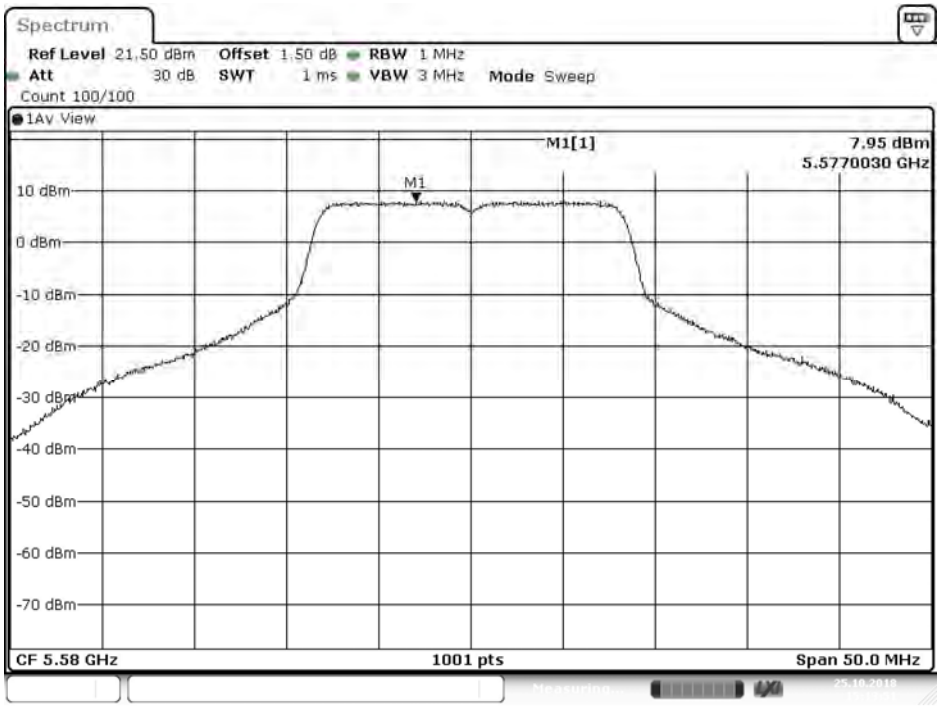
Channel 116



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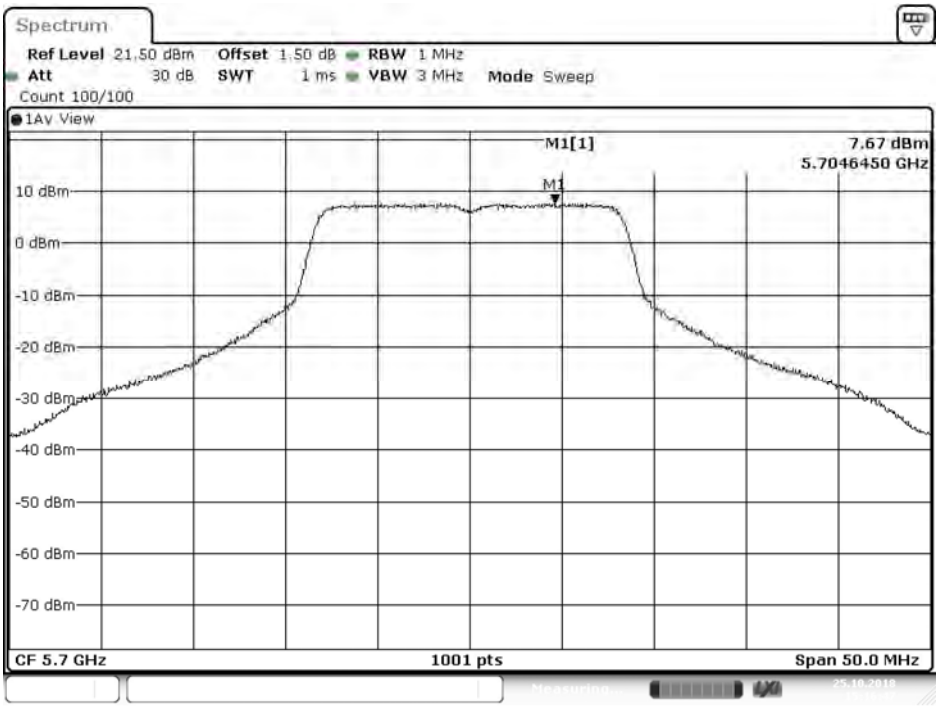
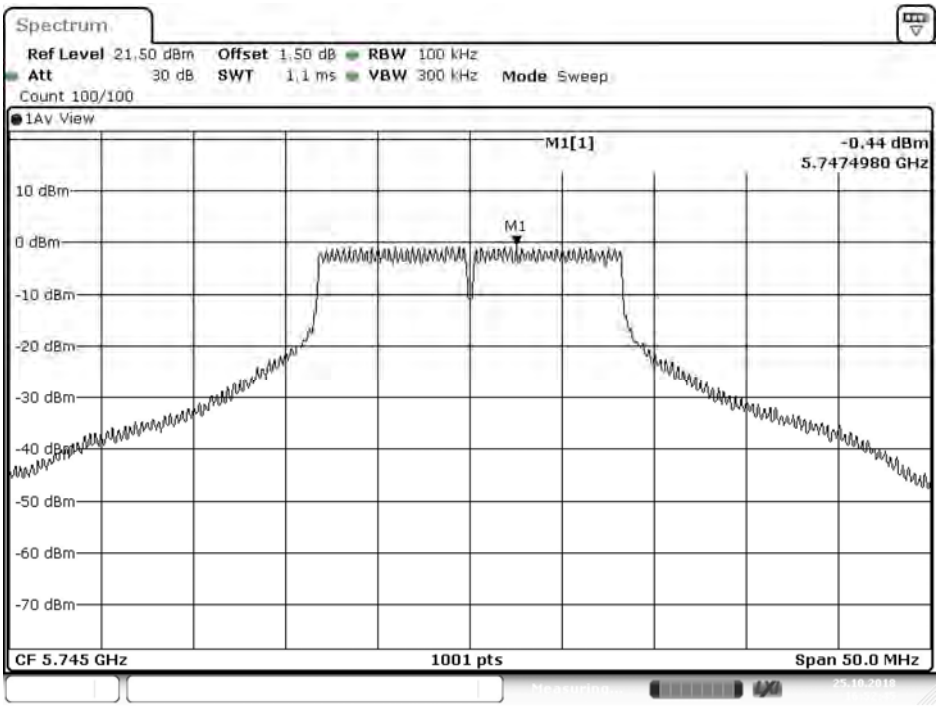
Channel 140



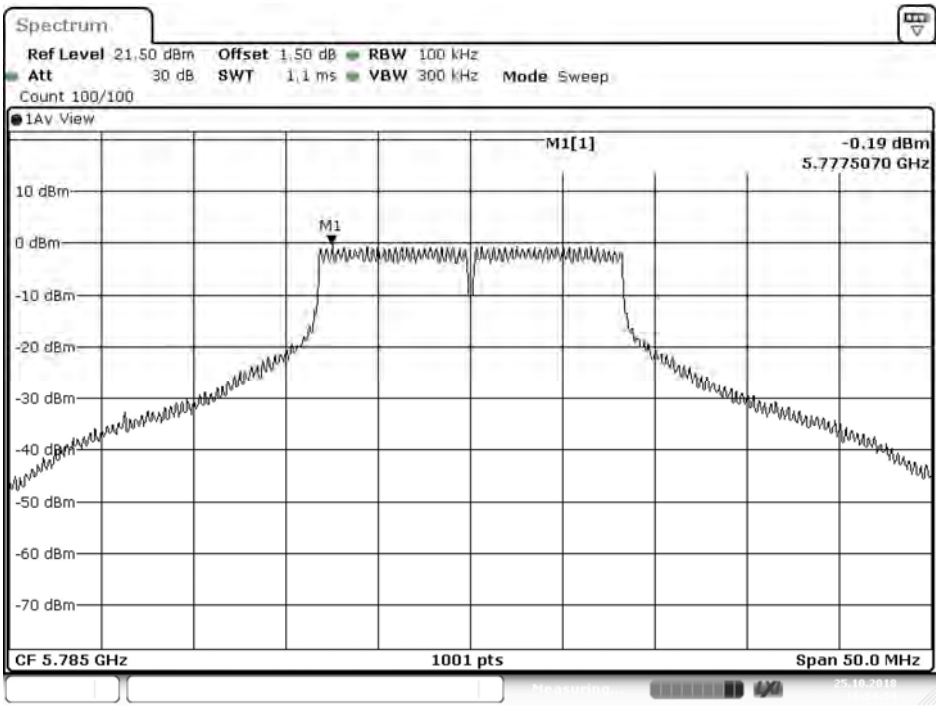
Date: 25.OCT.2018 15:16:47

Channel 149



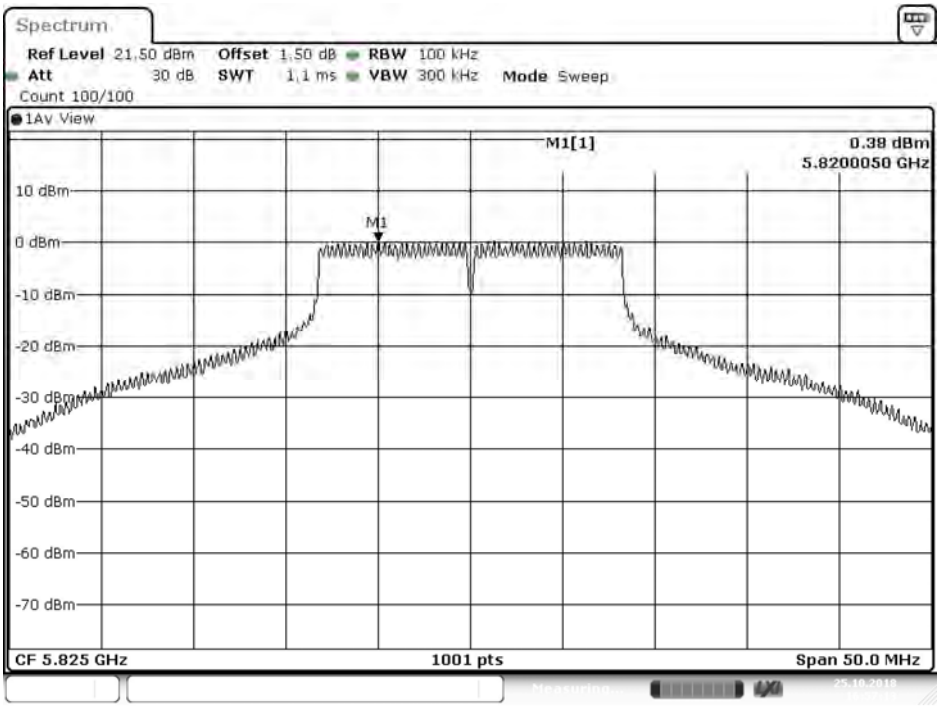
Date: 25.OCT.2018 16:52:45

Channel 157



Date: 25.OCT.2018 16:54:54

Channel 165



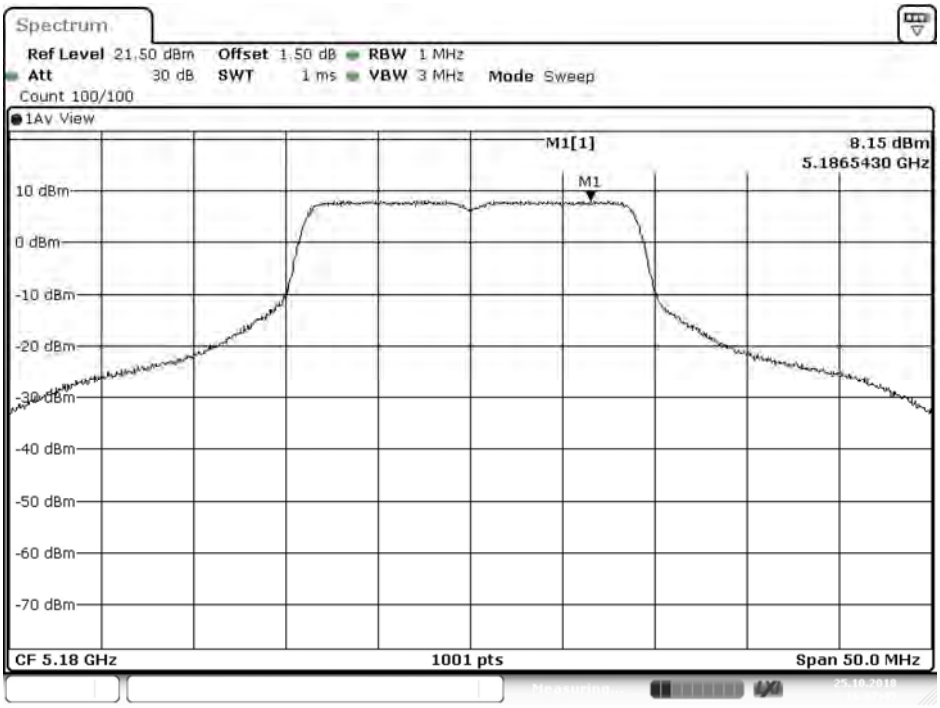
Date: 25.OCT.2018 16:57:13

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：1MHz
檢測器：峰值
測試日期：107 年 10 月 25 日
測試項目：峰值功率頻譜密度
測試模式：Mode 1: SISO A: 發射器 802.11n-20BW
視頻頻寬：3MHz
環境溫度：21 ℃
環境濕度：53 %

Channel Number	Frequency (MHz)	PPSD (dBm)	Required Limit (dBm)	Result
36	5180	8.15	<11	Pass
44	5220	8.11	<11	Pass
48	5240	8.02	<11	Pass
52	5260	7.97	<11	Pass
60	5300	7.83	<11	Pass
64	5320	7.63	<11	Pass
100	5500	8.01	<11	Pass
116	5580	8.24	<11	Pass
140	5700	7.81	<11	Pass

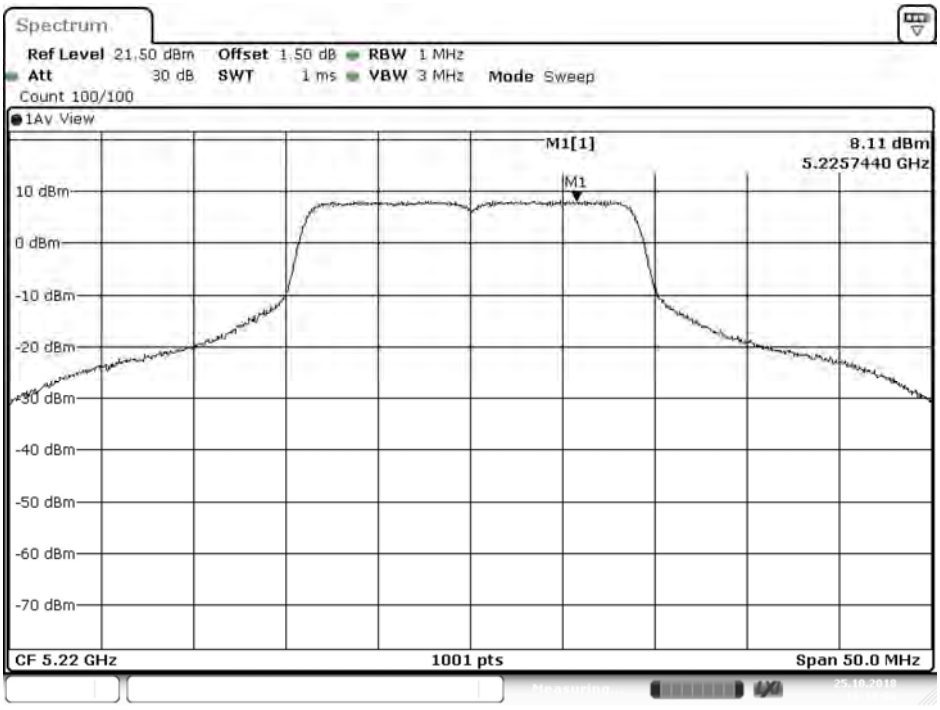
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
144(U-NII-2C)	5720	7.82	--	7.82	<11	Pass
144(U-NII-3)	5720	-0.93	6.98	6.05	<30	Pass
149	5745	-0.66	6.98	6.32	<30	Pass
157	5785	-0.20	6.98	6.78	<30	Pass
165	5825	0.38	6.98	7.36	<30	Pass

Channel 36



Date: 25.OCT.2018 16:07:45

Channel 44



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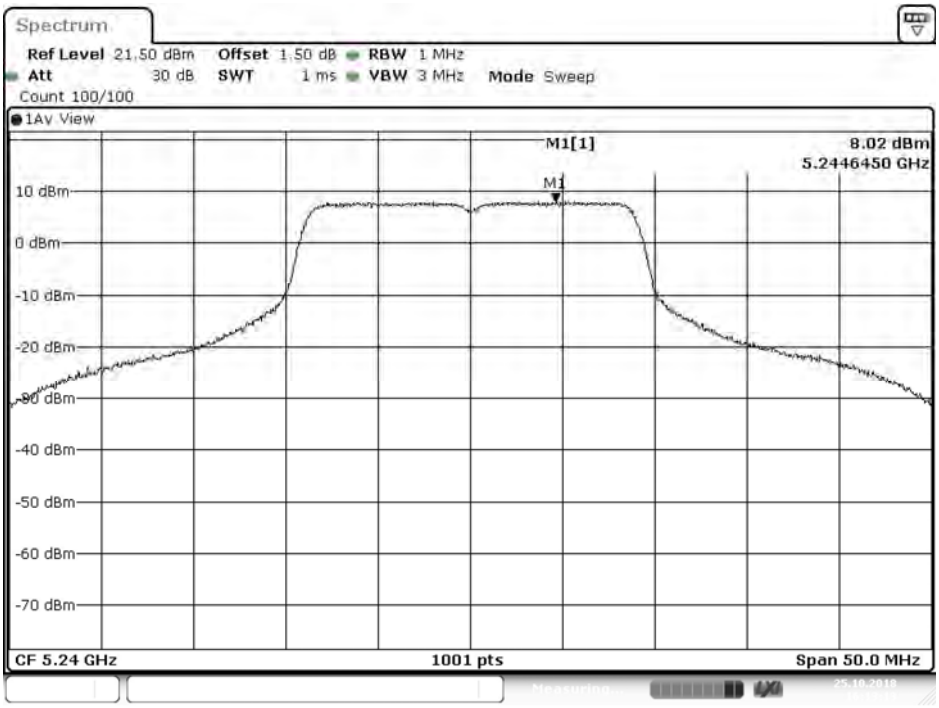
Channel 48



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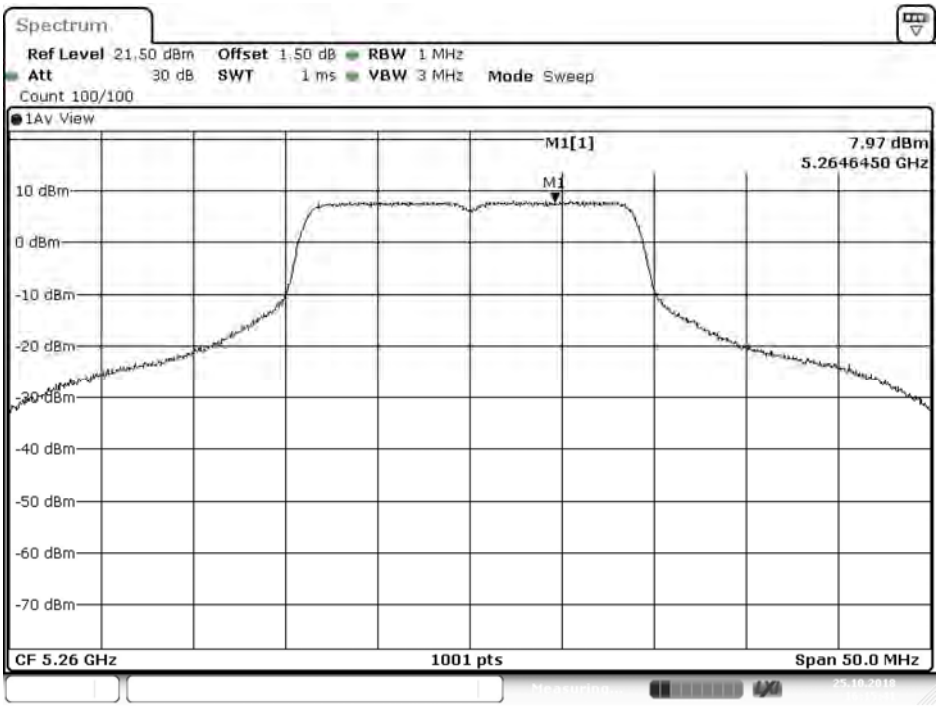
Channel 52



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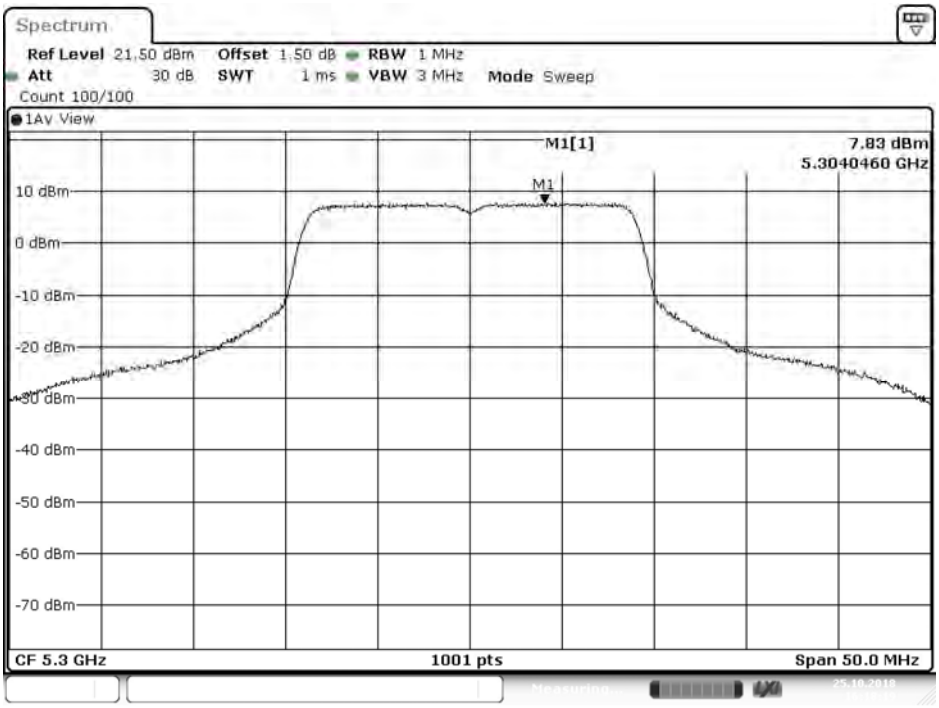
Channel 60



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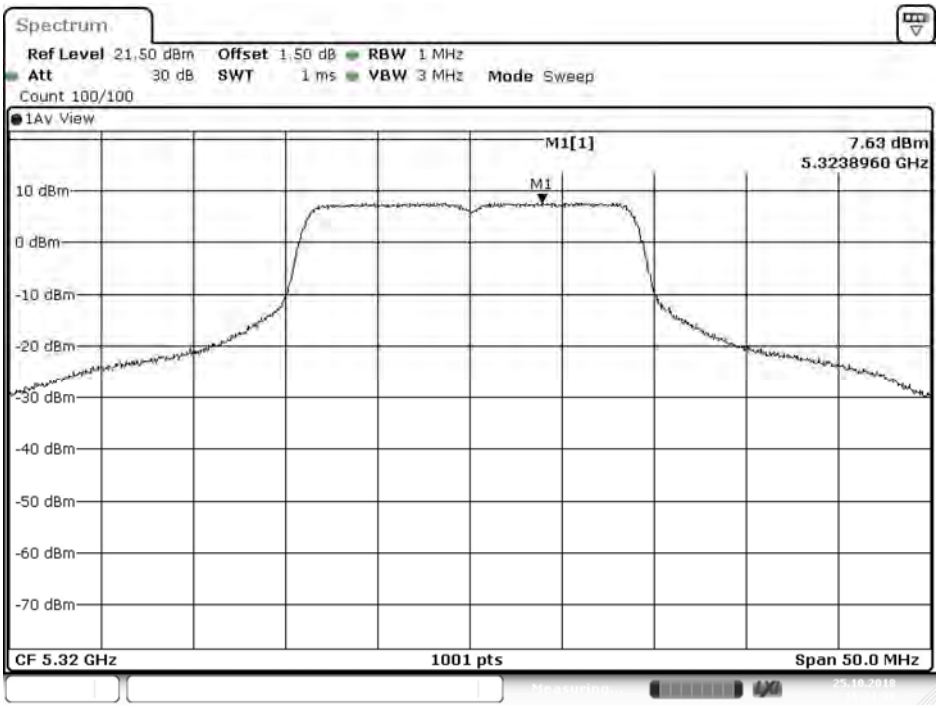
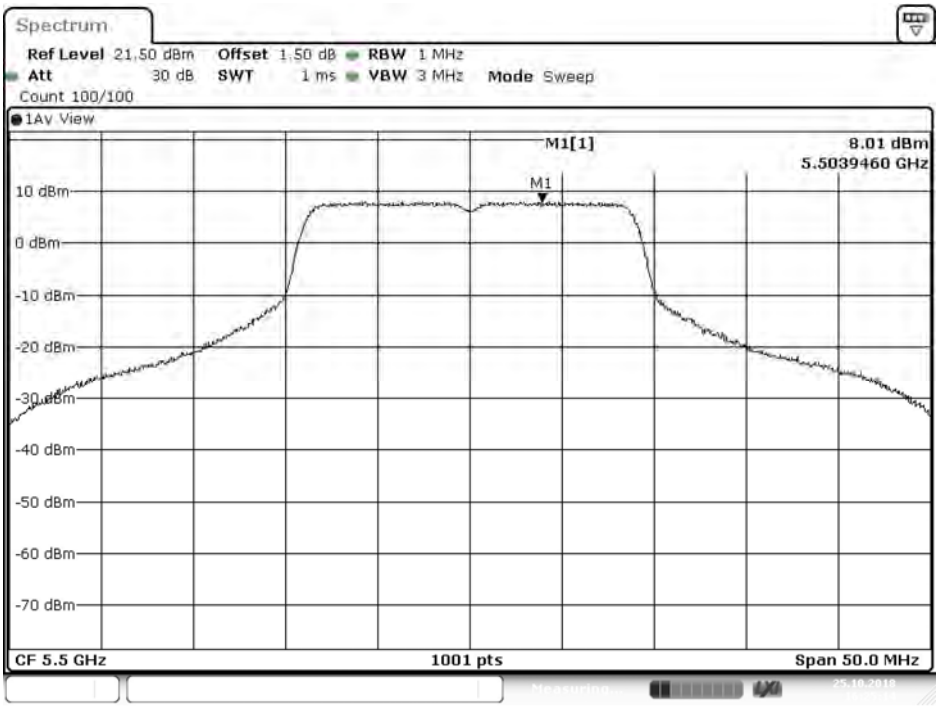
Channel 64



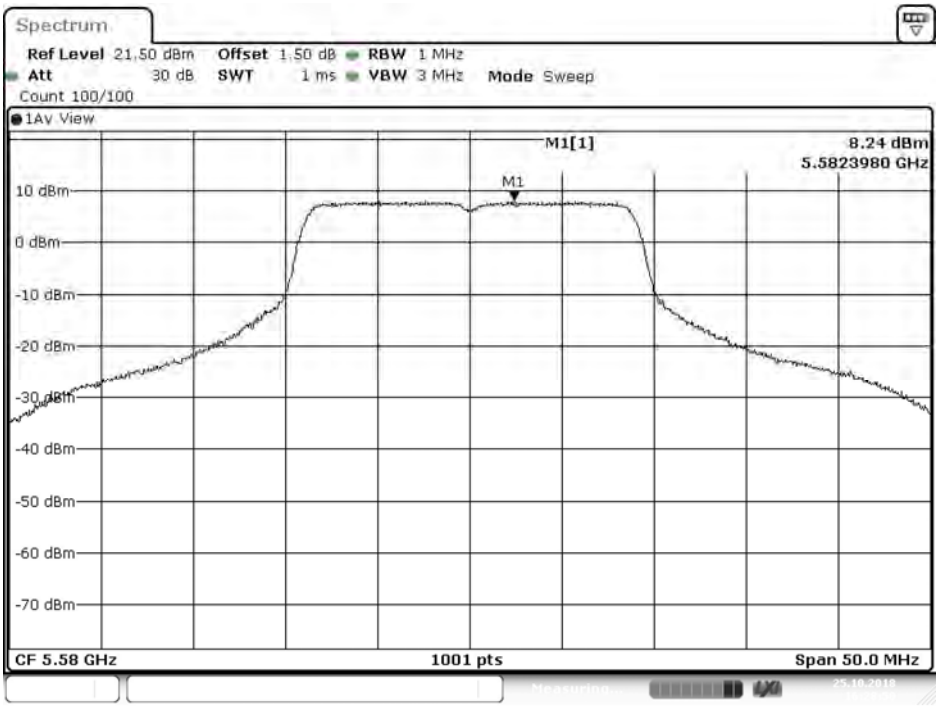
Date: 25.OCT.2018 16:21:38

Channel 100



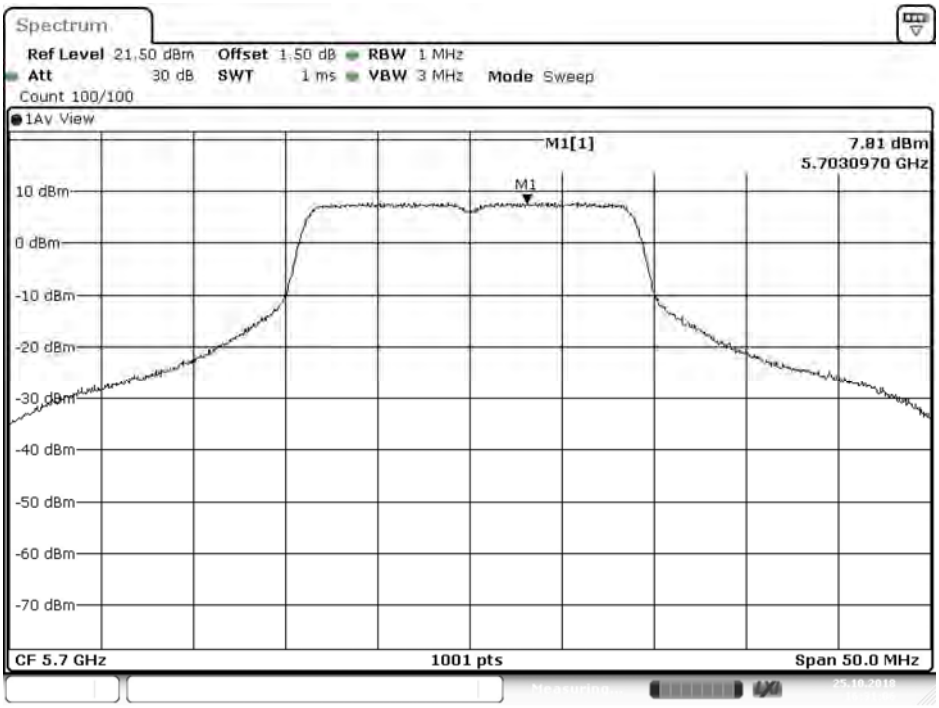
Date: 25.OCT.2018 16:25:14

Channel 116



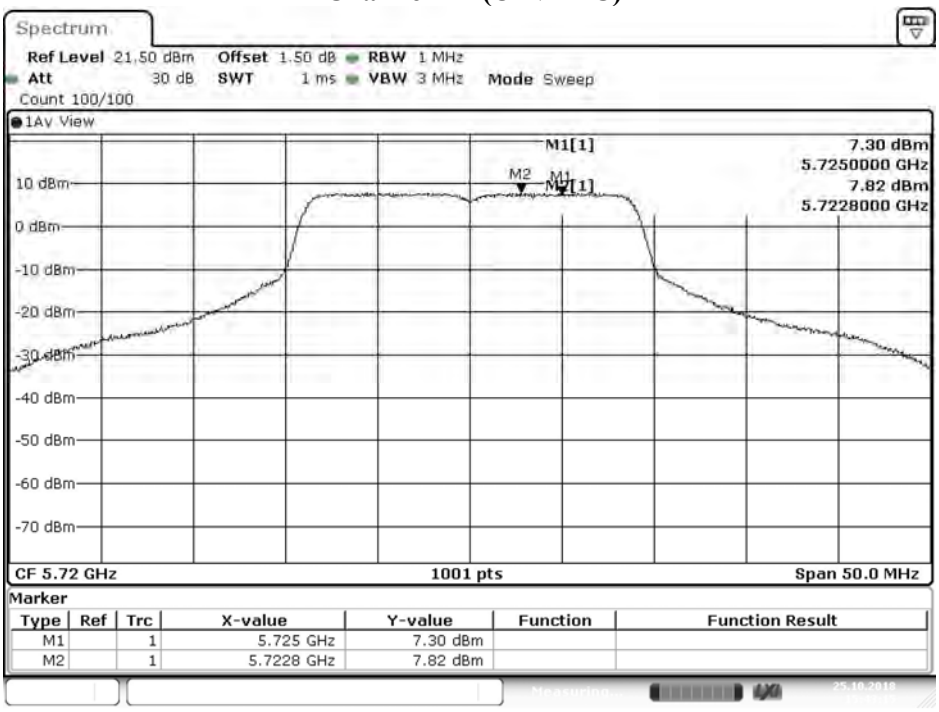
Date: 25.OCT.2018 16:28:50

Channel 140



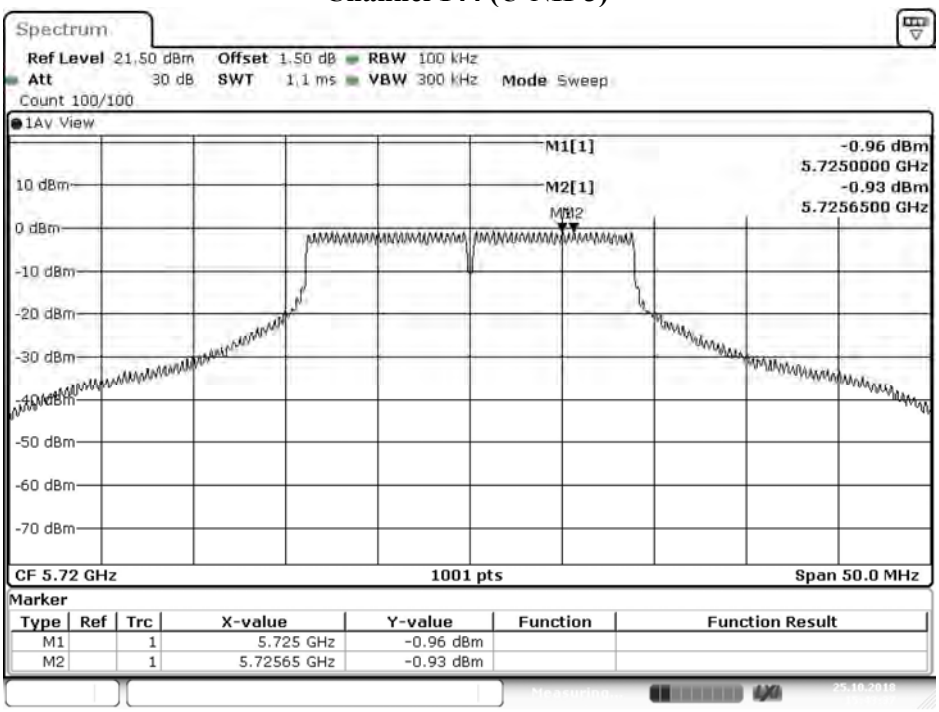
Date: 25.OCT.2018 16:31:07

Channel 144(U-NII-2C)



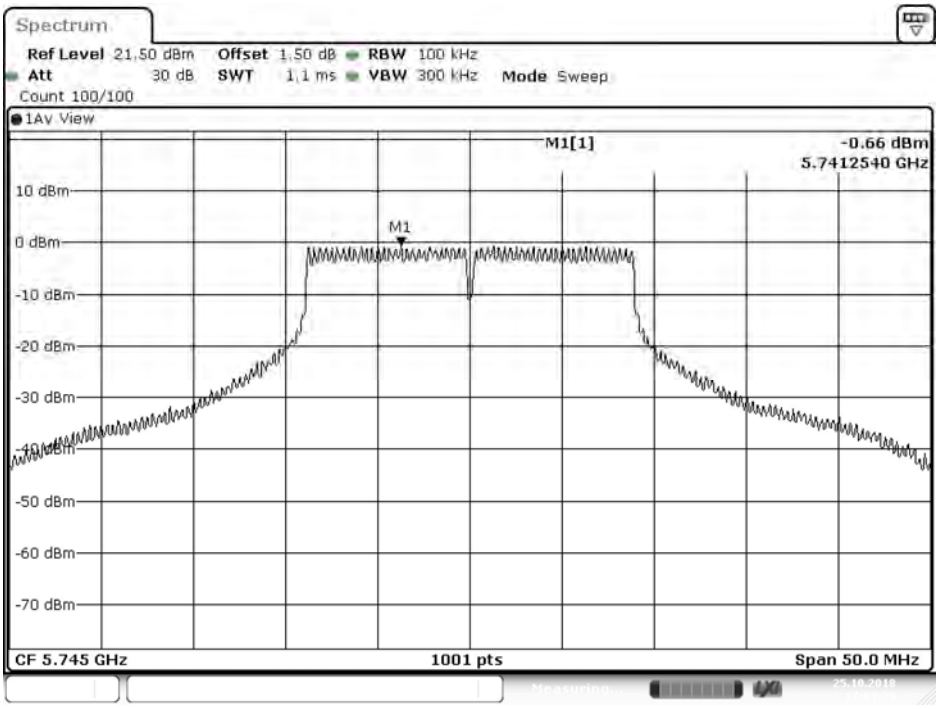
Date: 25.OCT.2018 15:43:15

Channel 144 (U-NII-3)



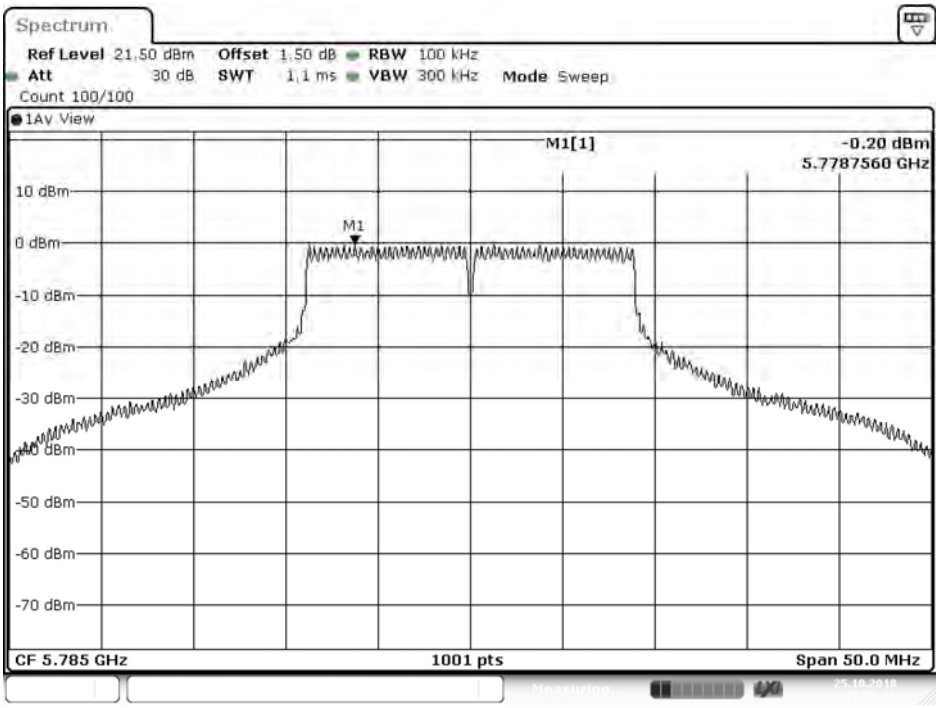
Date: 25.OCT.2018 15:43:37

Channel 149



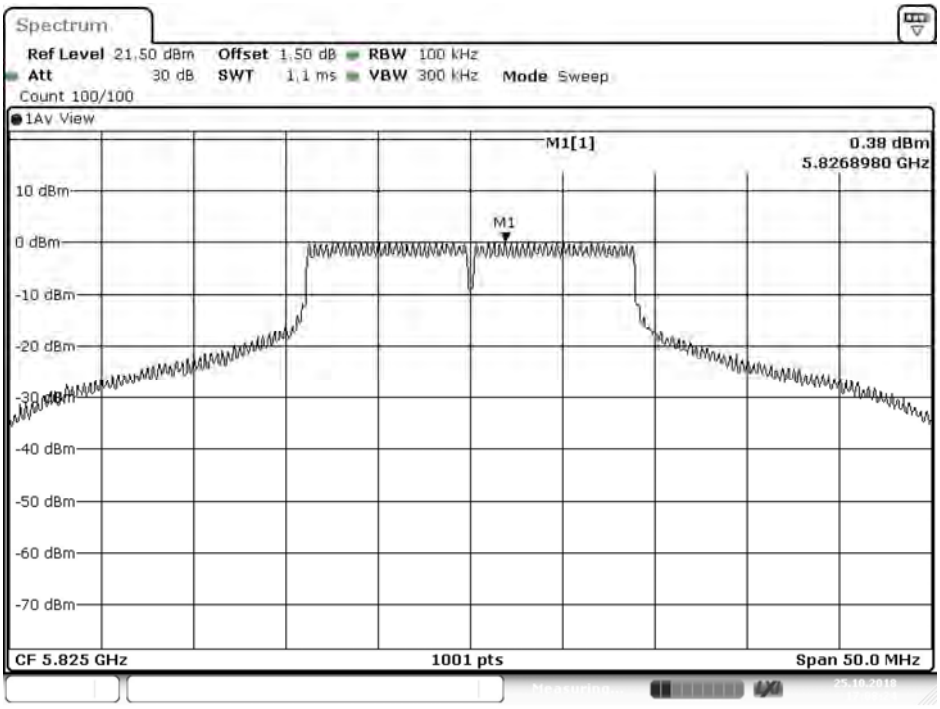
Date: 25.OCT.2018 17:03:29

Channel 157



Date: 25.OCT.2018 17:06:16

Channel 165



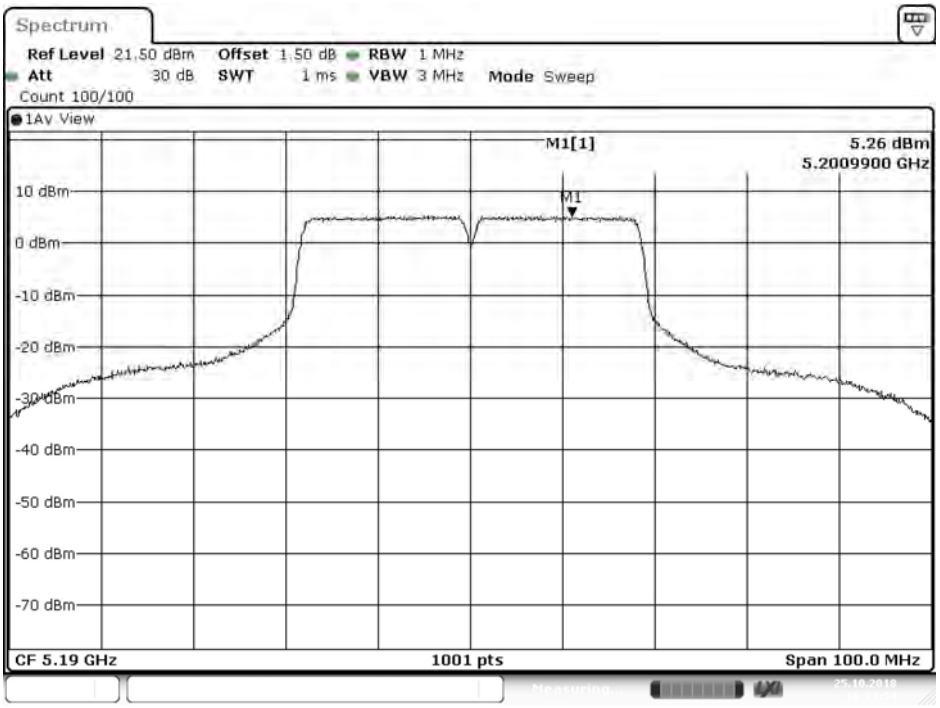
Date: 25.OCT.2018 17:08:25

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL　　測試項目：峰值功率頻譜密度
測試頻道：--　　測試模式：Mode 1: SISO A: 發射器 802.11n-40BW
6 dB 頻寬：1MHz　　視頻頻寬：3MHz
檢 測 器：峰值　　環境溫度：21 ℃
測試日期：107 年 10 月 25 日　　環境濕度：53 %

Channel Number	Frequency (MHz)	PPSD (dBm)	Required Limit (dBm)	Result
38	5190	5.26	<11	Pass
46	5230	5.23	<11	Pass
54	5270	5.11	<11	Pass
62	5310	4.83	<11	Pass
102	5510	5.02	<11	Pass
110	5550	4.94	<11	Pass
134	5670	5.02	<11	Pass

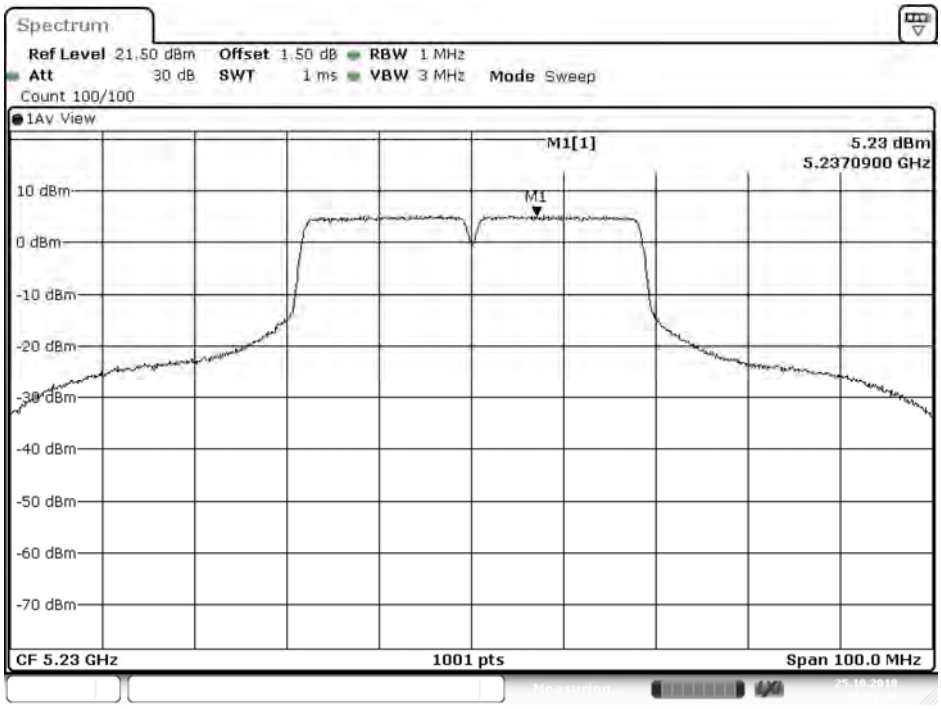
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
142(U-NII-2C)	5710	4.77	--	4.77	<11	Pass
142(U-NII-3)	5710	-3.93	6.98	3.05	<30	Pass
151	5755	-4.25	6.98	2.73	<30	Pass
159	5795	-3.07	6.98	3.91	<30	Pass

Channel 38



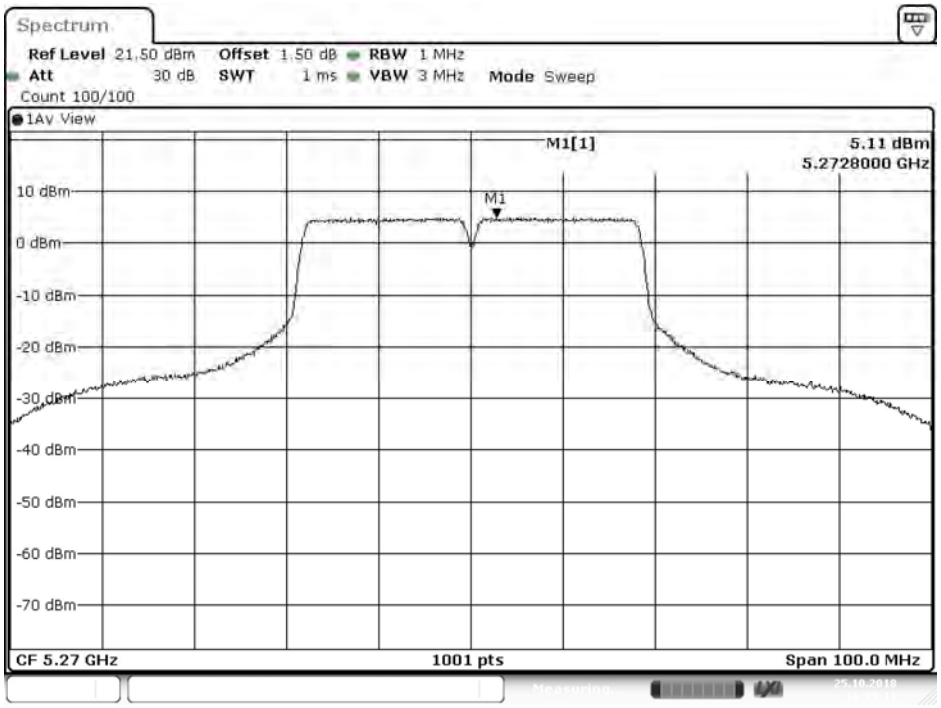
Date: 25.OCT.2018 16:33:54

Channel 46



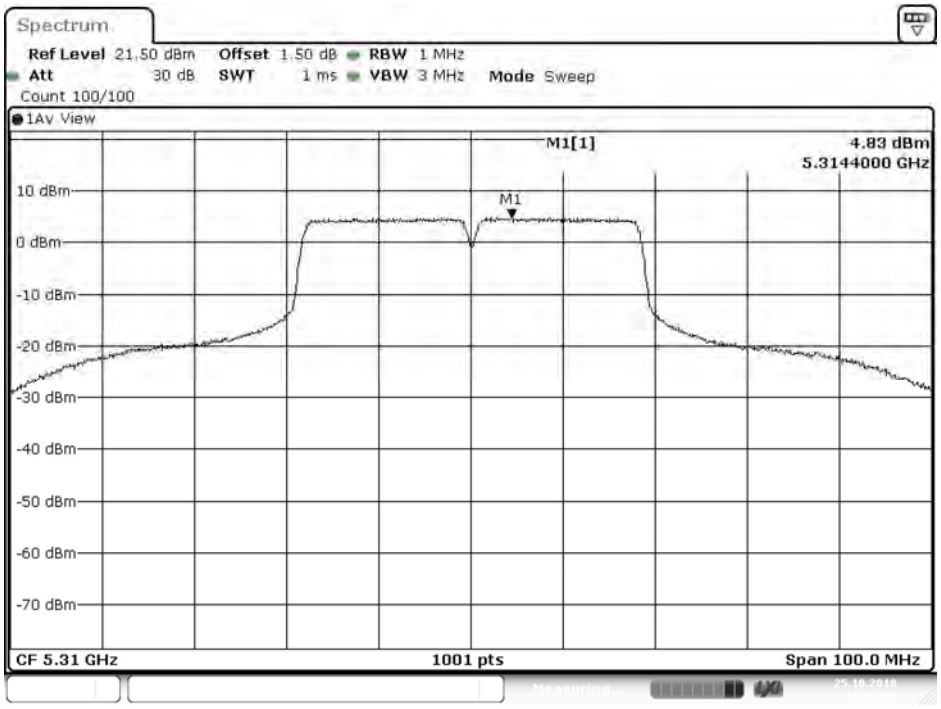
Date: 25.OCT.2018 16:36:44

Channel 54



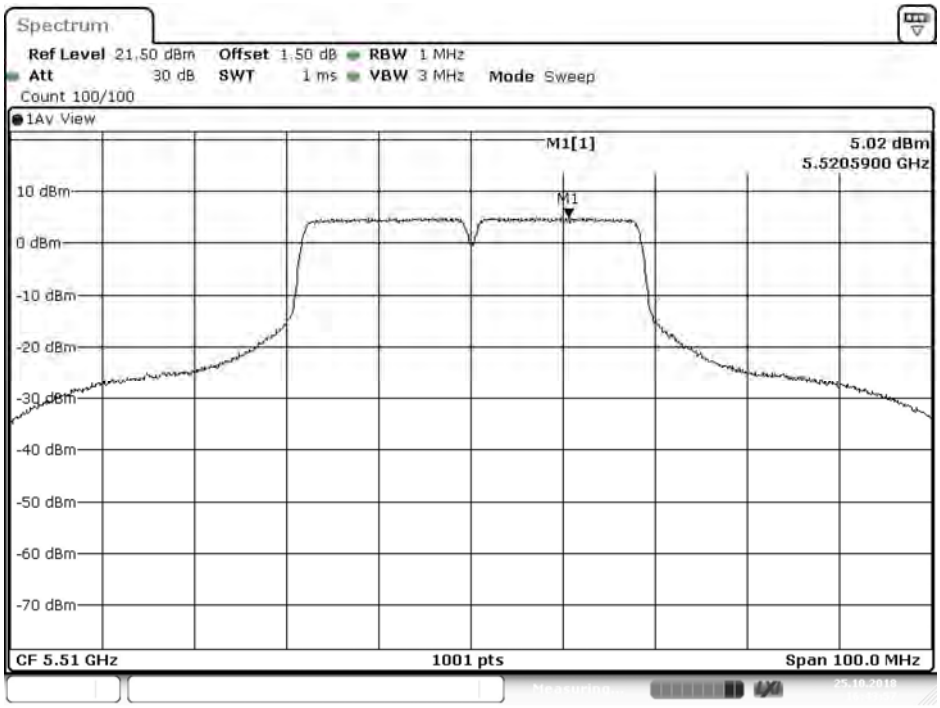
Date: 25.OCT.2018 16:39:11

Channel 62



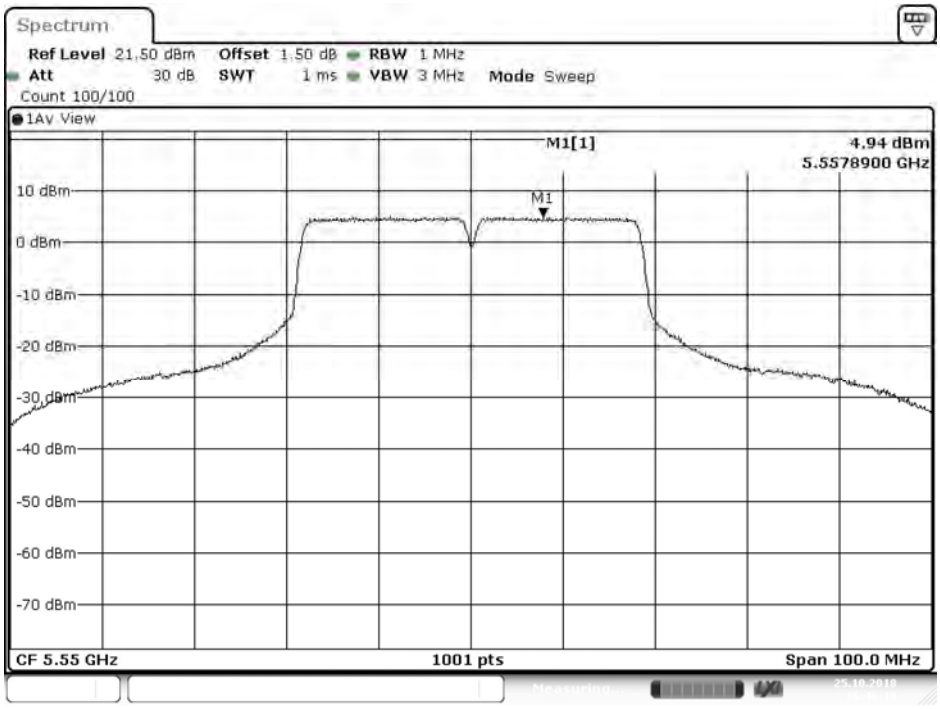
Date: 25.OCT.2018 16:41:46

Channel 102



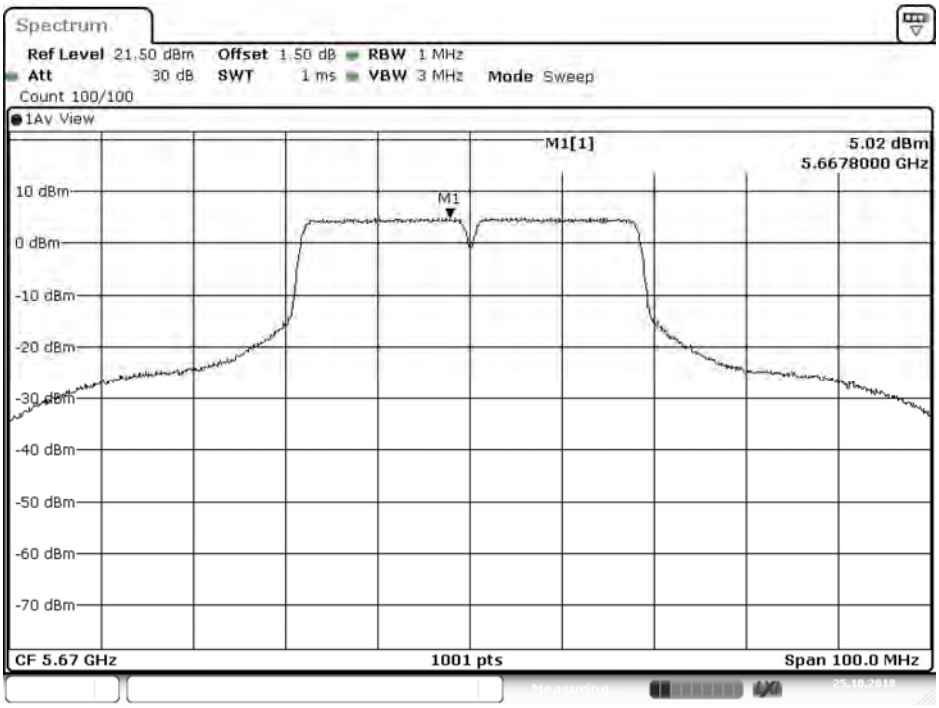
Date: 25.OCT.2018 16:43:57

Channel 110



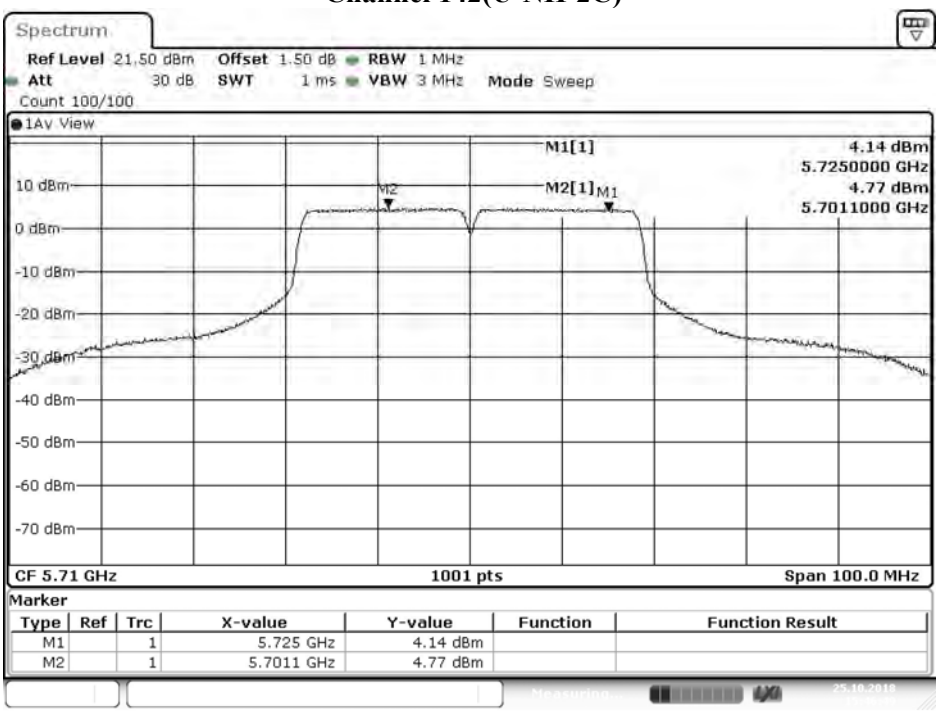
Date: 25.OCT.2018 16:46:11

Channel 134



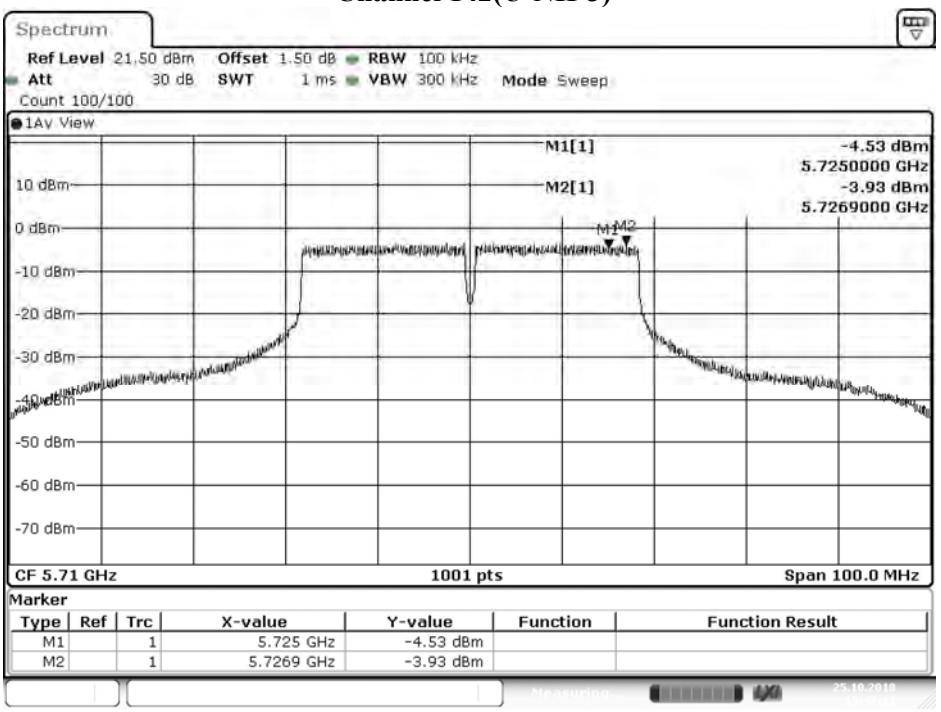
Date: 25.OCT.2018 16:49:03

Channel 142(U-NII-2C)



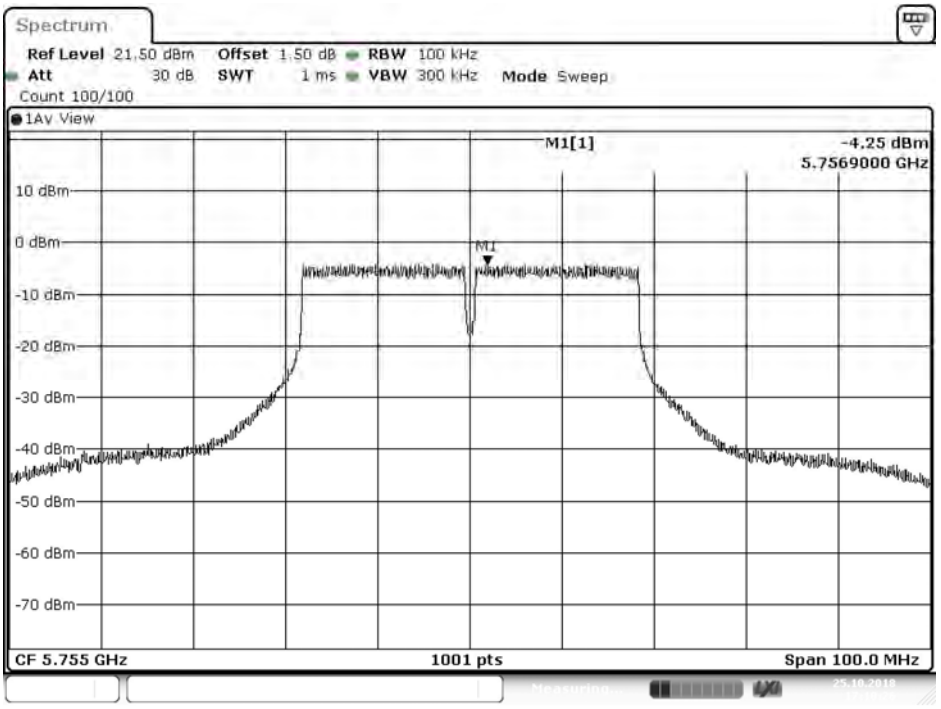
Date: 25.OCT.2018 15:46:49

Channel 142(U-NII-3)



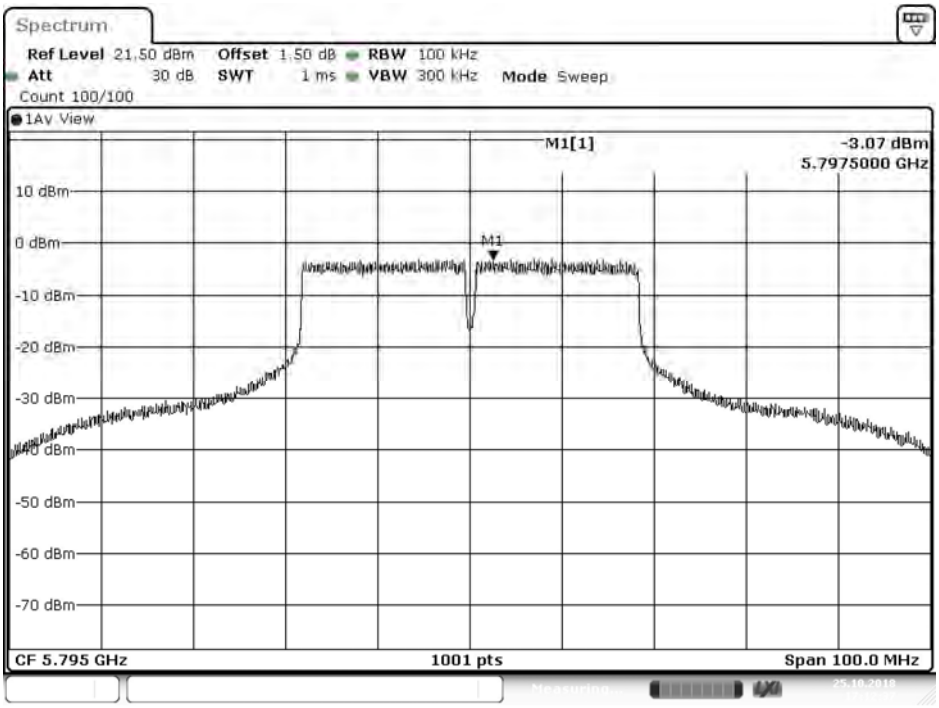
Date: 25.OCT.2018 15:47:11

Channel 151



Date: 25.OCT.2018 17:10:26

Channel 159

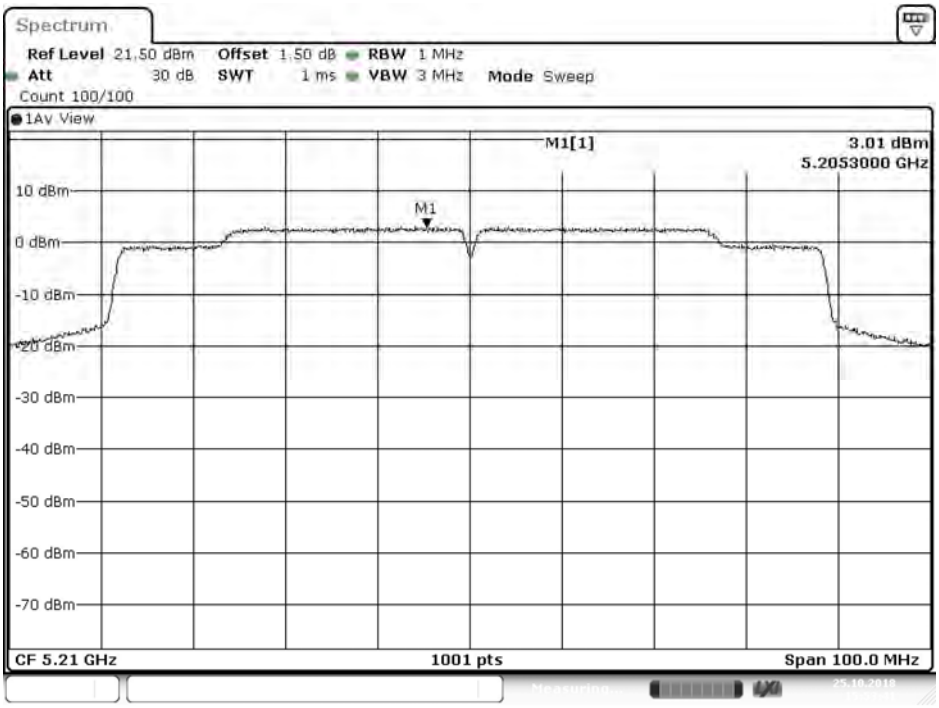


Date: 25.OCT.2018 17:12:38

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：1MHz
檢測器：峰值
測試日期：107 年 10 月 25 日
測試項目：峰值功率頻譜密度
測試模式：Mode 1: SISO A: 發射器 802.11ac-80BW
視頻頻寬：3MHz
環境溫度：21 ℃
環境濕度：53 %

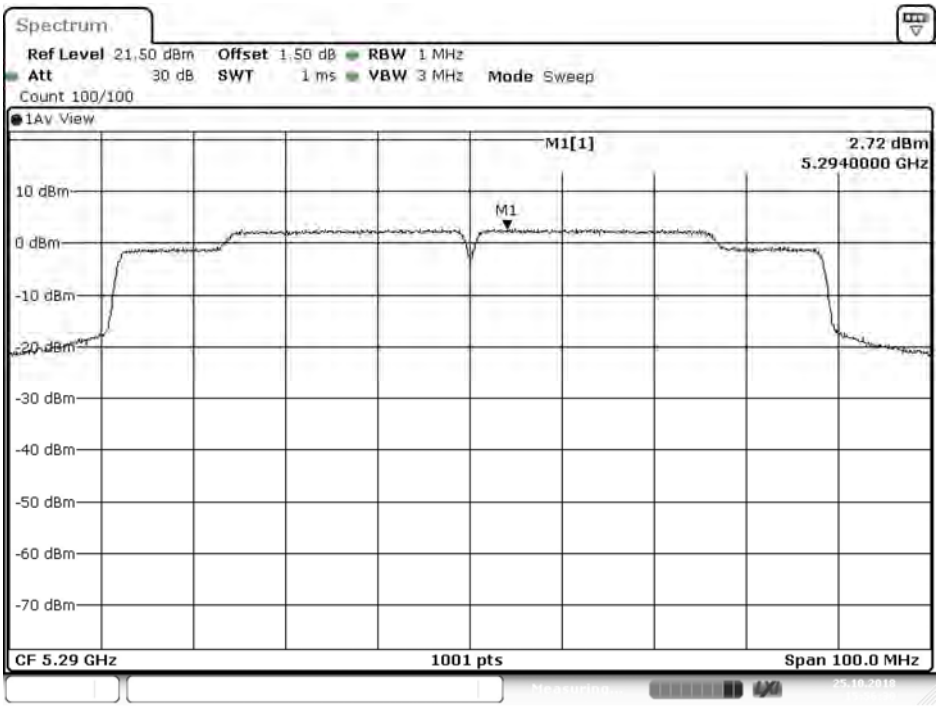
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
42	5210	3.01	--	3.01	<11	Pass
58	5290	2.72	--	2.72	<11	Pass
106	5530	3.02	--	3.02	<11	Pass
122	5610	3.19	--	3.19	<11	Pass
138(U-NII-2C)	5690	3.15	--	3.15	<11	Pass
138(U-NII-3)	5690	-9.26	6.98	-2.28	<30	Pass
155	5775	-4.47	6.98	2.51	<30	Pass

Channel 42



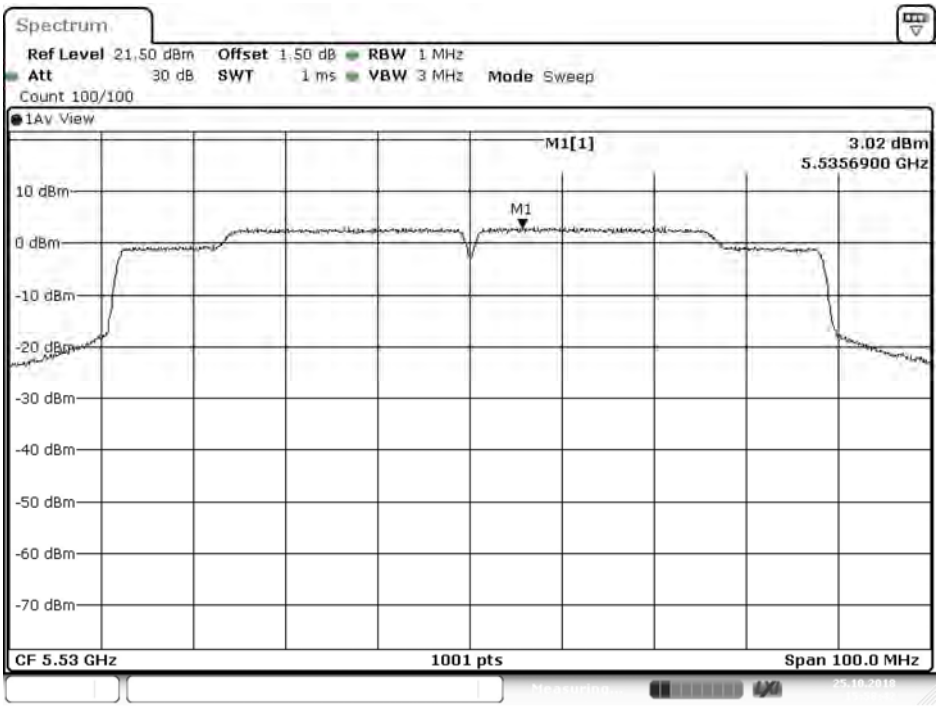
Date: 25.OCT.2018 15:53:41

Channel 58



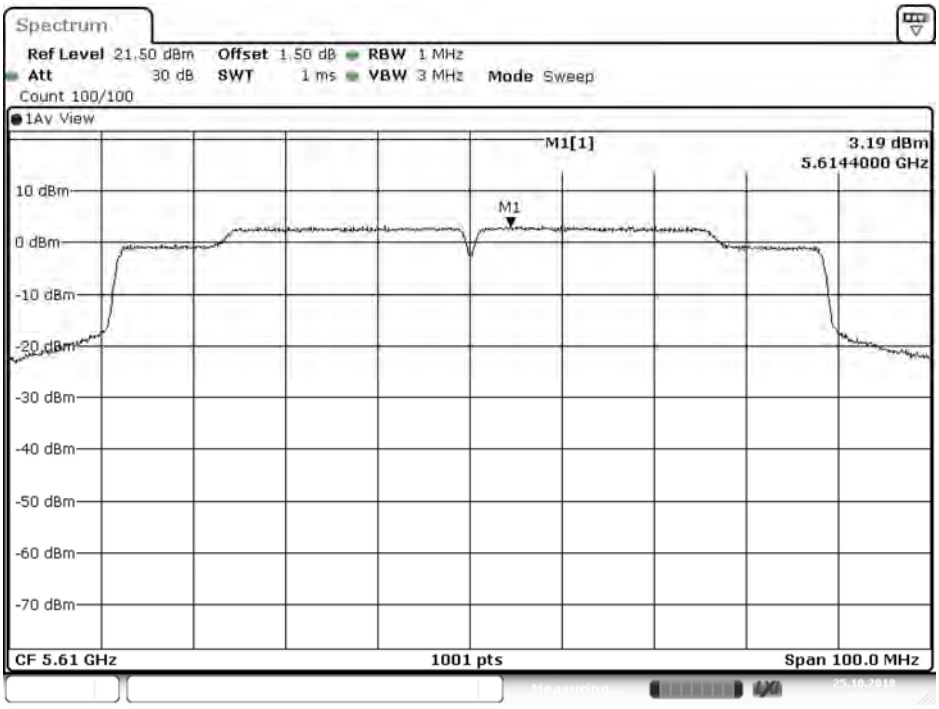
Date: 25.OCT.2018 15:56:31

Channel 106



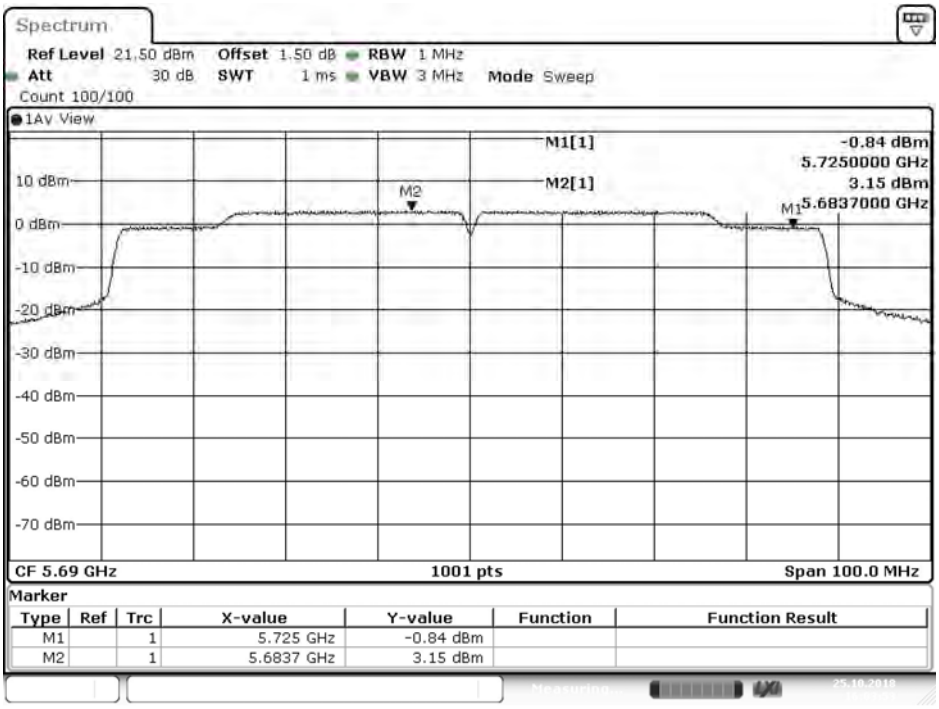
Date: 25.OCT.2018 15:58:42

Channel 122



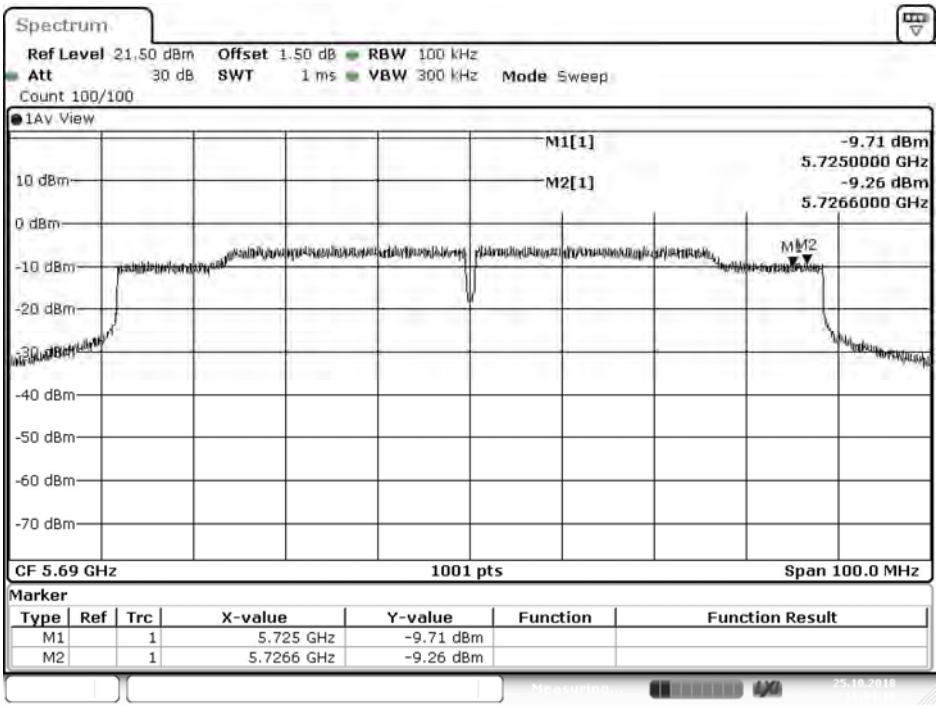
Date: 25.OCT.2018 16:01:22

Channel 138 (U-NII-2C)



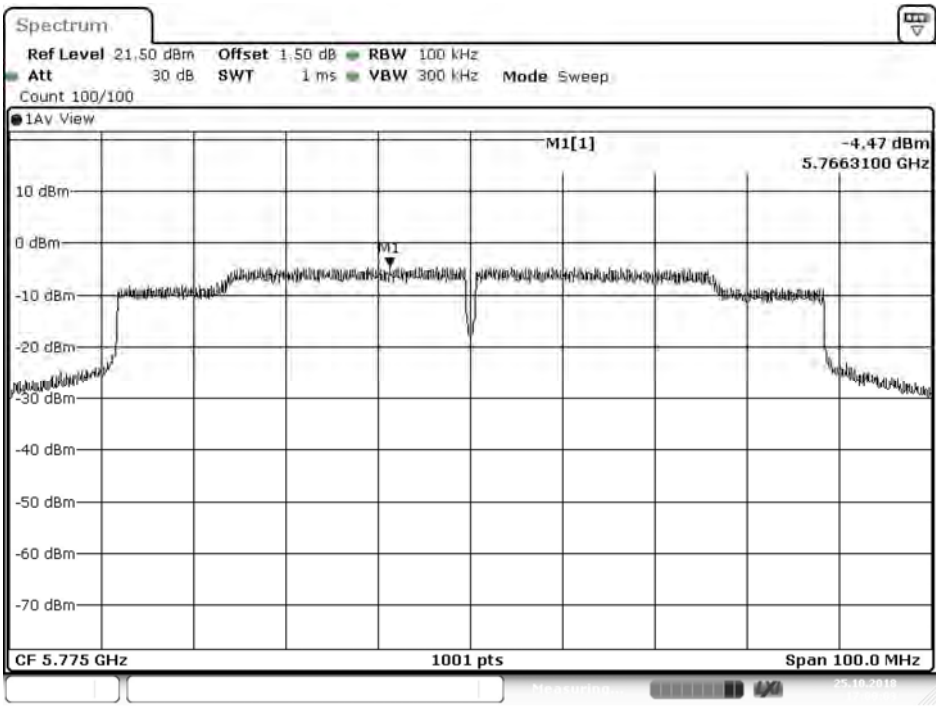
Date: 25.OCT.2018 16:03:54

Channel 138 (U-NII-3)



Date: 25.OCT.2018 16:04:16

Channel 155

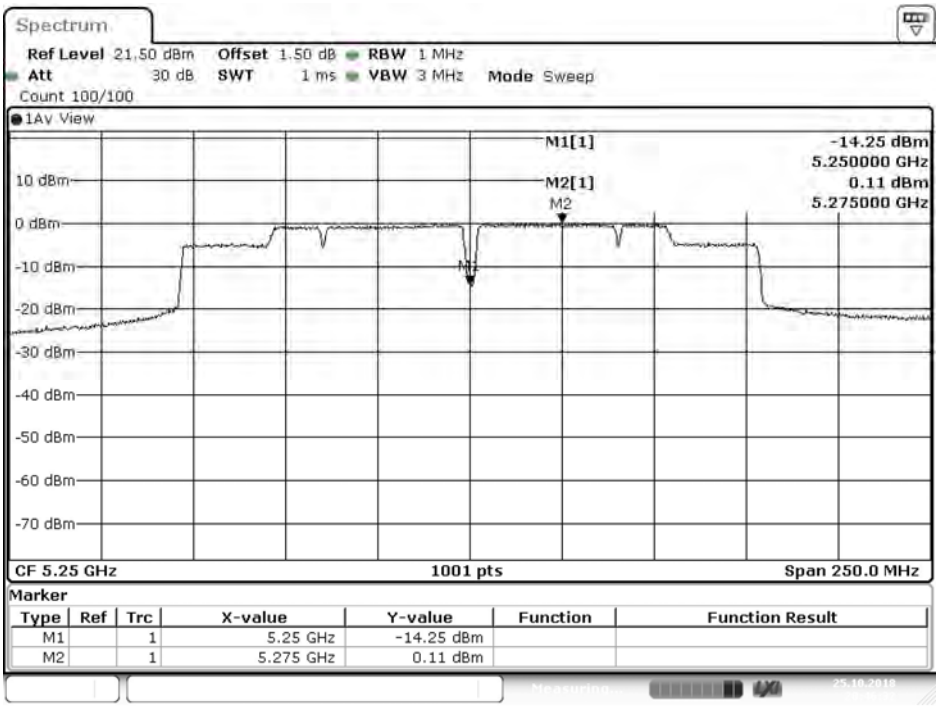


Date: 25.OCT.2018 17:00:03

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：1MHz
檢測器：峰值
測試日期：107 年 10 月 25 日
測試項目：峰值功率頻譜密度
測試模式：Mode 1: SISO A: 發射器 802.11ac-160BW
視頻頻寬：3MHz
環境溫度：21 ℃
環境濕度：53 %

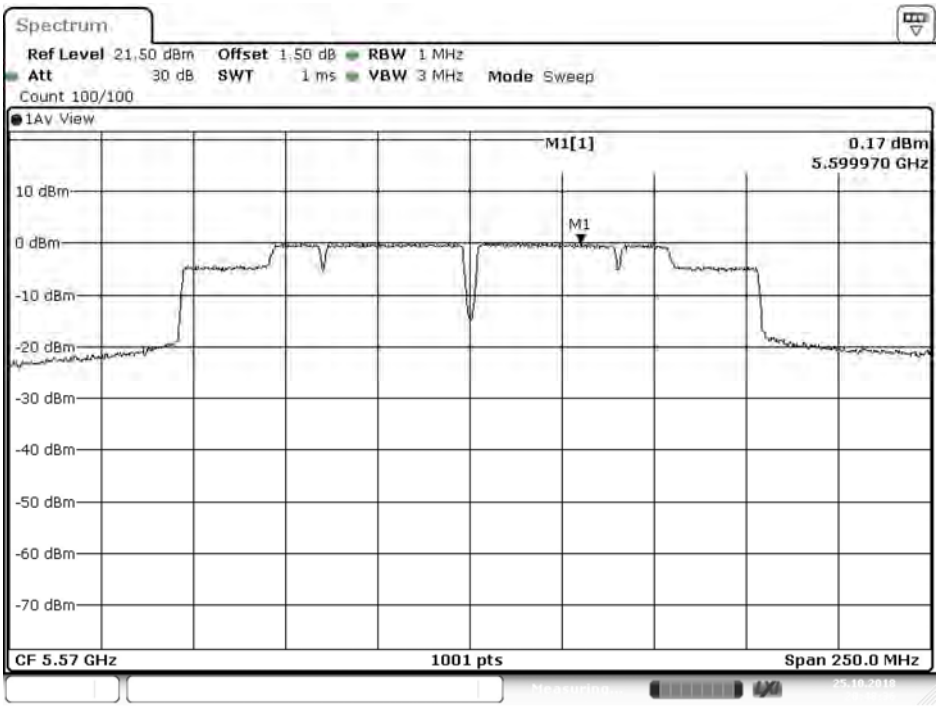
Channel Number	Frequency (MHz)	PPSD (dBm)	Required Limit (dBm)	Result
50	5250	0.11	<11	Pass
114	5570	0.17	<11	Pass

Channel 50



Date: 25.OCT.2018 20:46:32

Channel 114



Date: 25.OCT.2018 20:48:36

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL　　測試項目：峰值功率頻譜密度
測試頻道：--　　測試模式：Mode 2: SISO B: 發射器 802.11a
6 dB 頻寬：1MHz　　視頻頻寬：3MHz
檢測器：峰值　　環境溫度：21 ℃
測試日期：107 年 10 月 25 日　　環境濕度：53 %

Channel Number	Frequency (MHz)	PPSD (dBm)	Required Limit (dBm)	Result
36	5180	8.04	<11	Pass
44	5220	8.07	<11	Pass
48	5240	7.80	<11	Pass
52	5260	7.60	<11	Pass
60	5300	7.67	<11	Pass
64	5320	7.46	<11	Pass
100	5500	7.61	<11	Pass
116	5580	7.71	<11	Pass
140	5700	7.67	<11	Pass

Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
149	5745	-0.61	6.98	6.37	<30	Pass
157	5785	-0.41	6.98	6.57	<30	Pass
165	5825	0.01	6.98	6.99	<30	Pass

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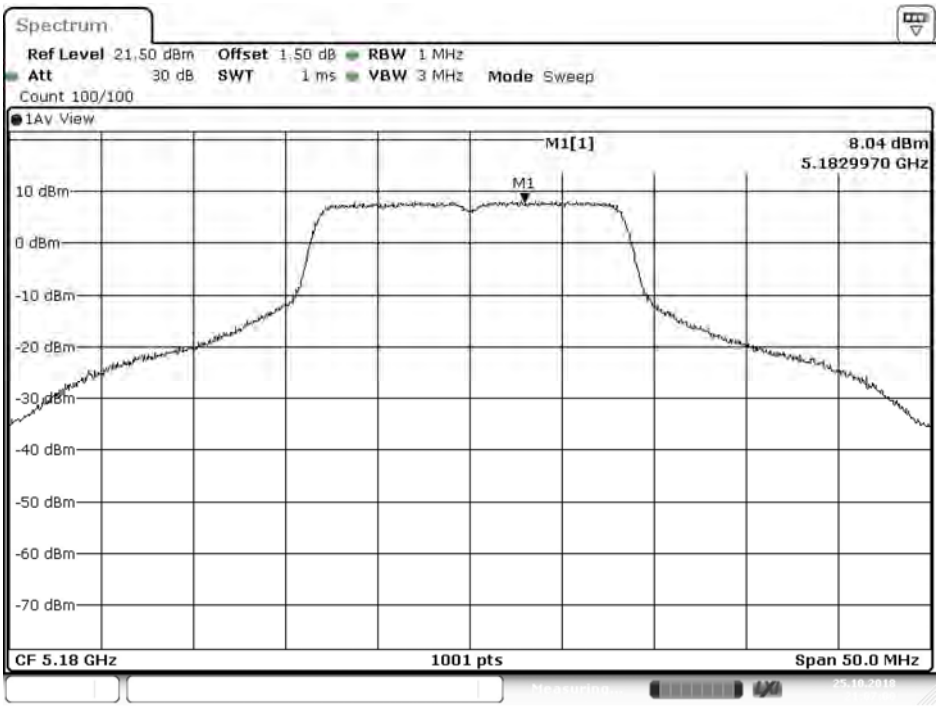
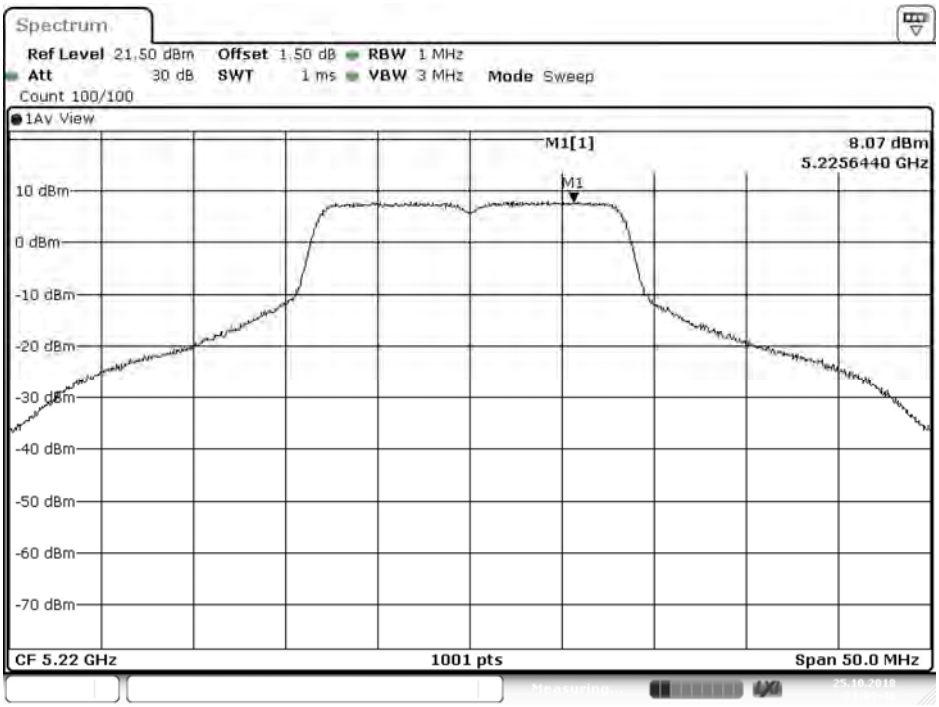
Channel 36



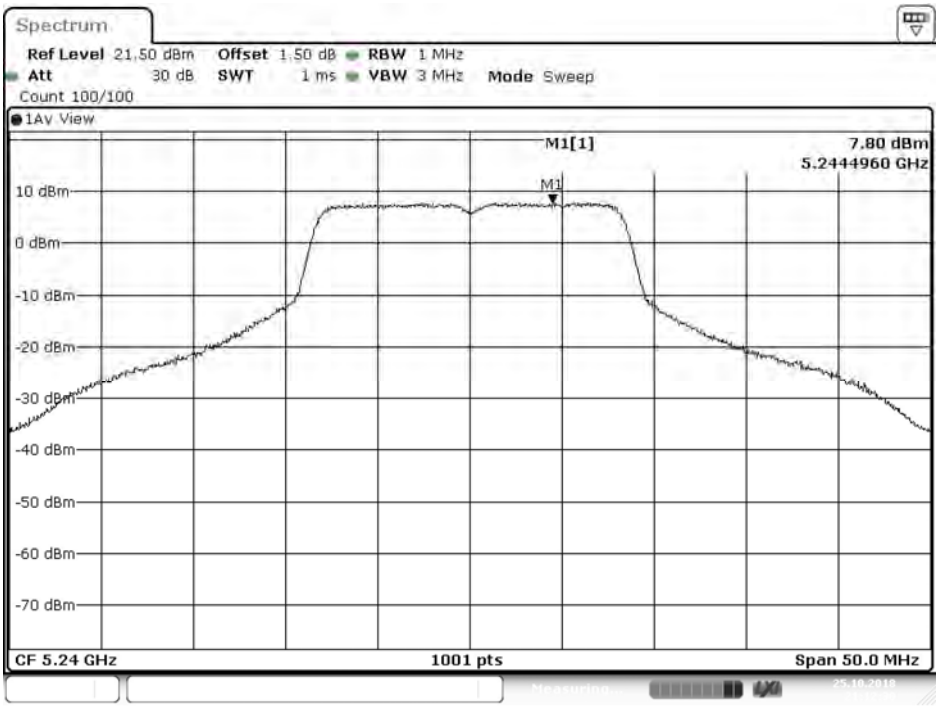
Date: 25.OCT.2018 21:07:00

Channel 44



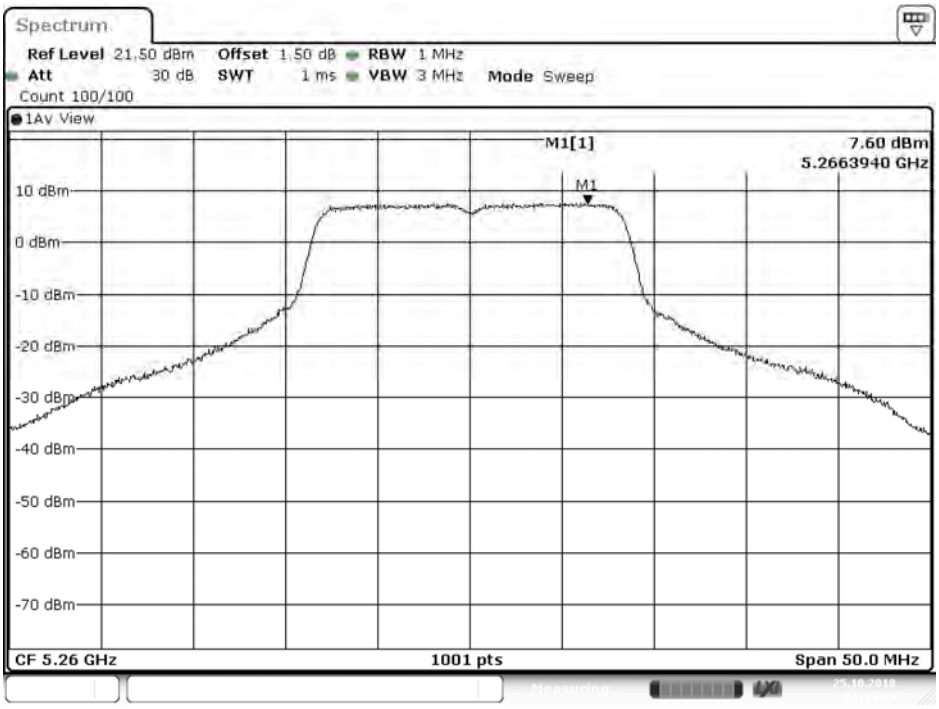
Date: 25.OCT.2018 21:09:49

Channel 48



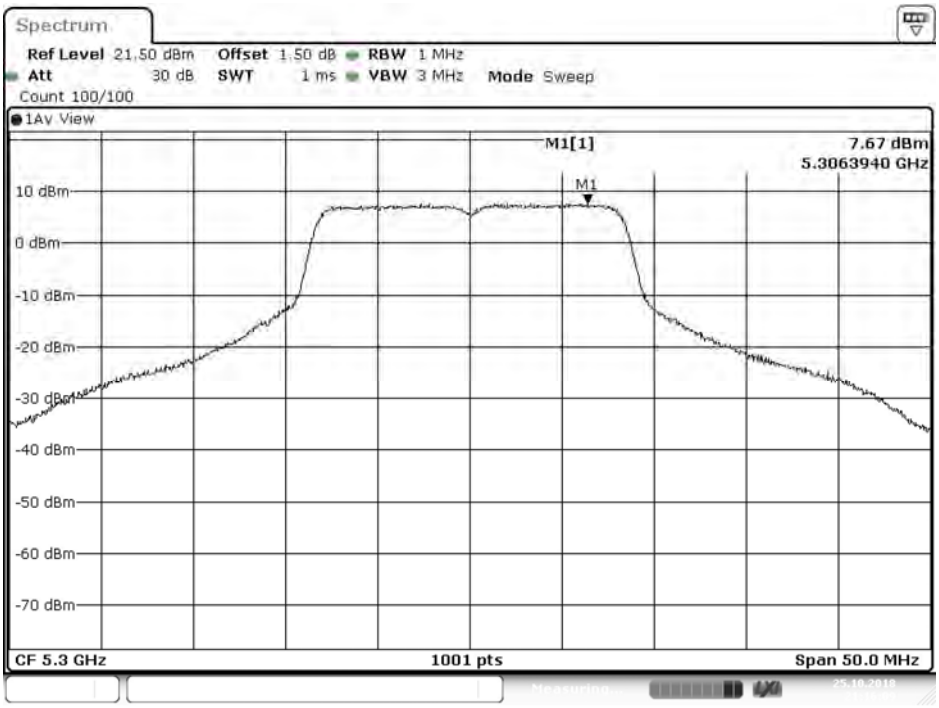
Date: 25.OCT.2018 21:12:30

Channel 52



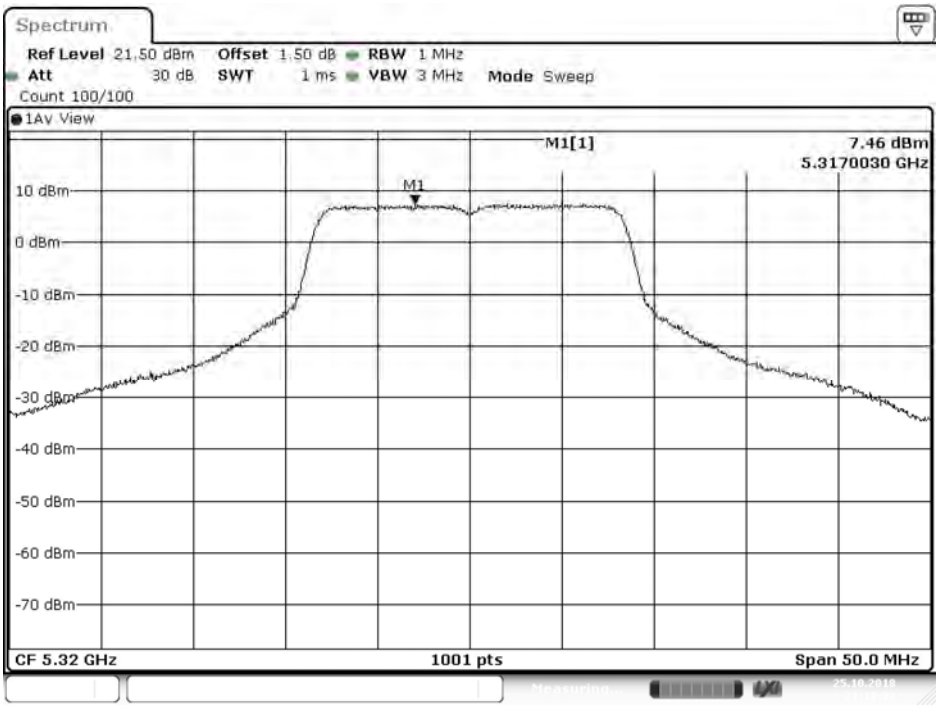
Date: 25.OCT.2018 21:14:34

Channel 60



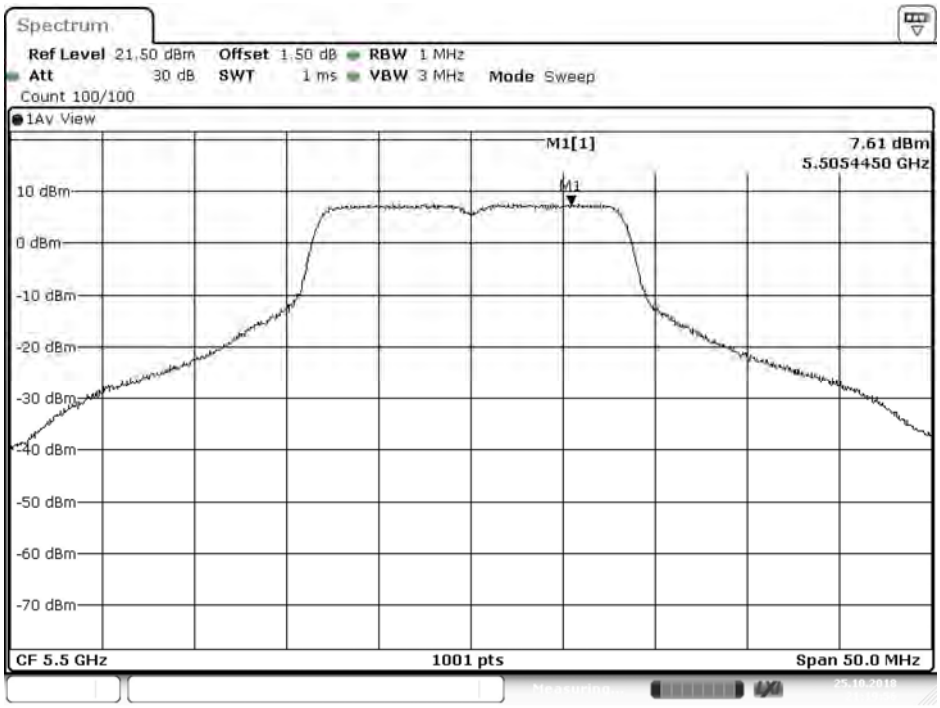
Date: 25.OCT.2018 21:16:09

Channel 64



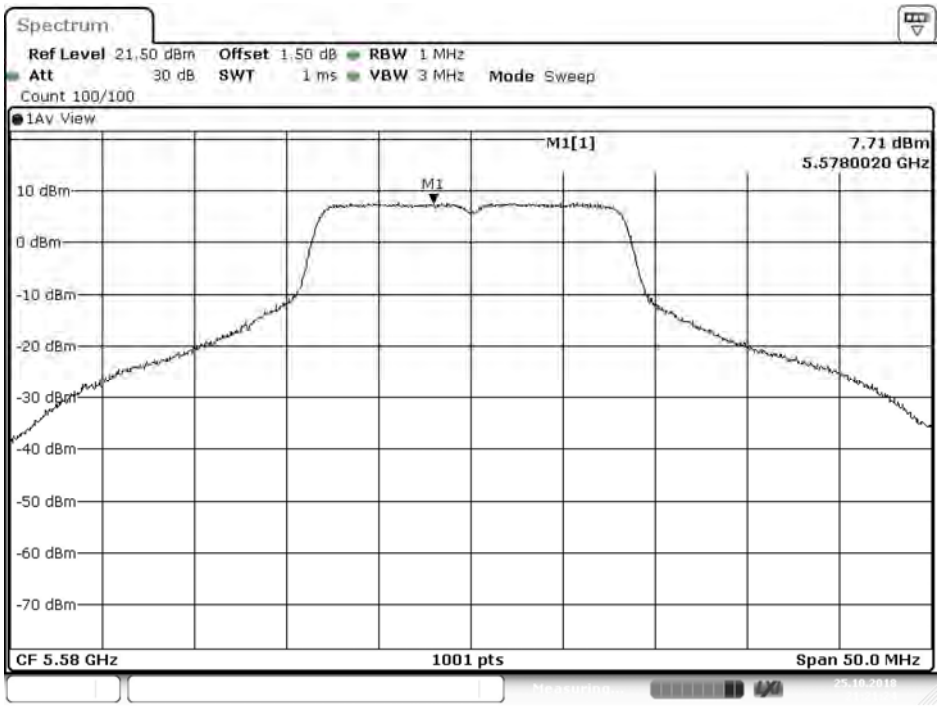
Date: 25.OCT.2018 21:18:33

Channel 100



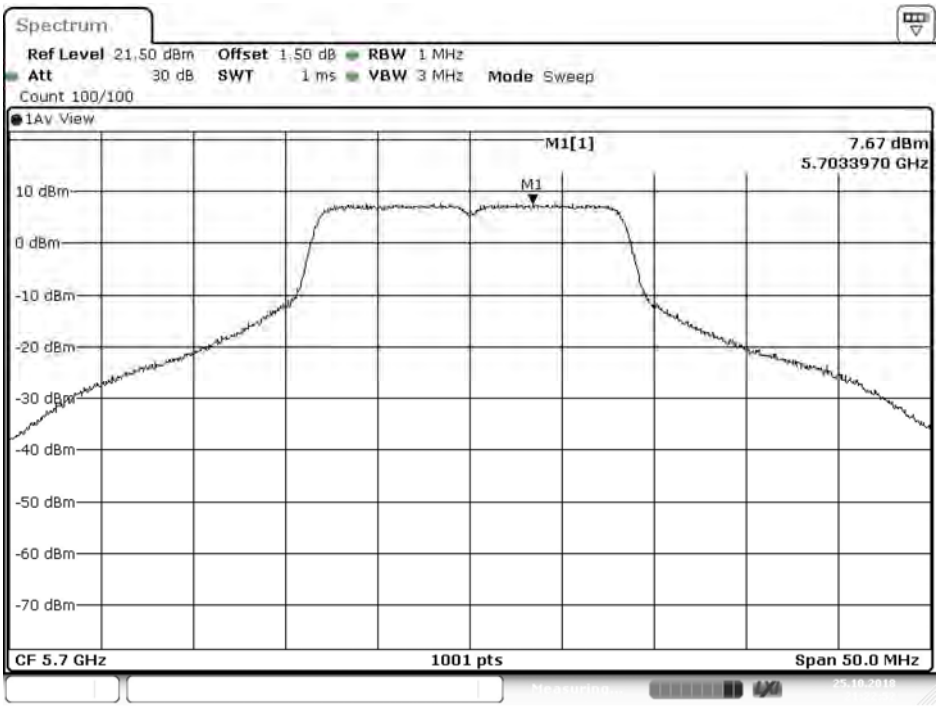
Date: 25.OCT.2018 21:19:56

Channel 116



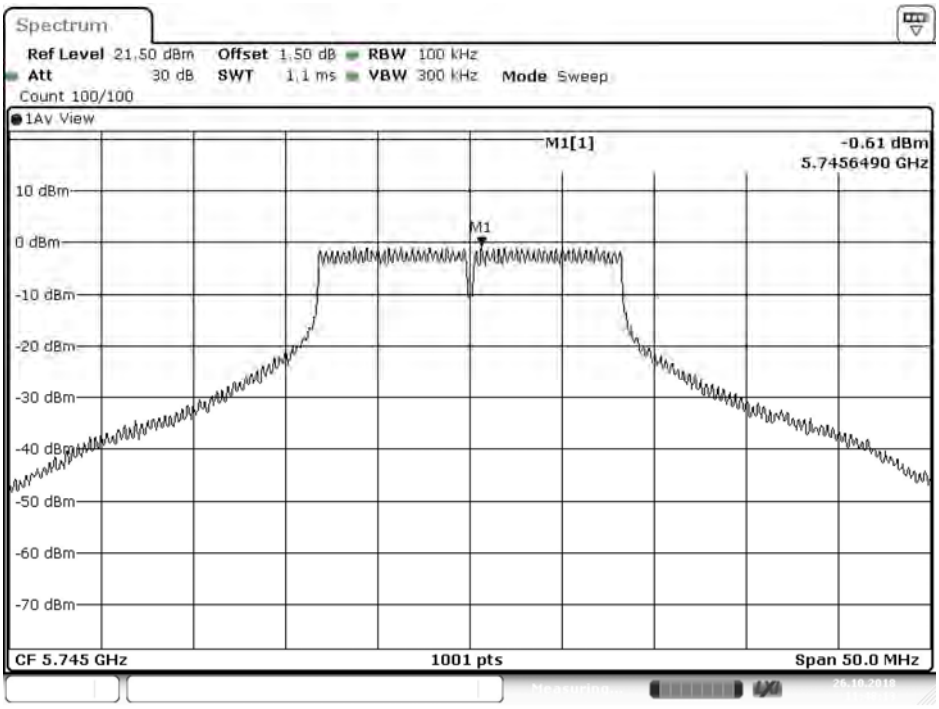
Date: 25.OCT.2018 21:21:24

Channel 140



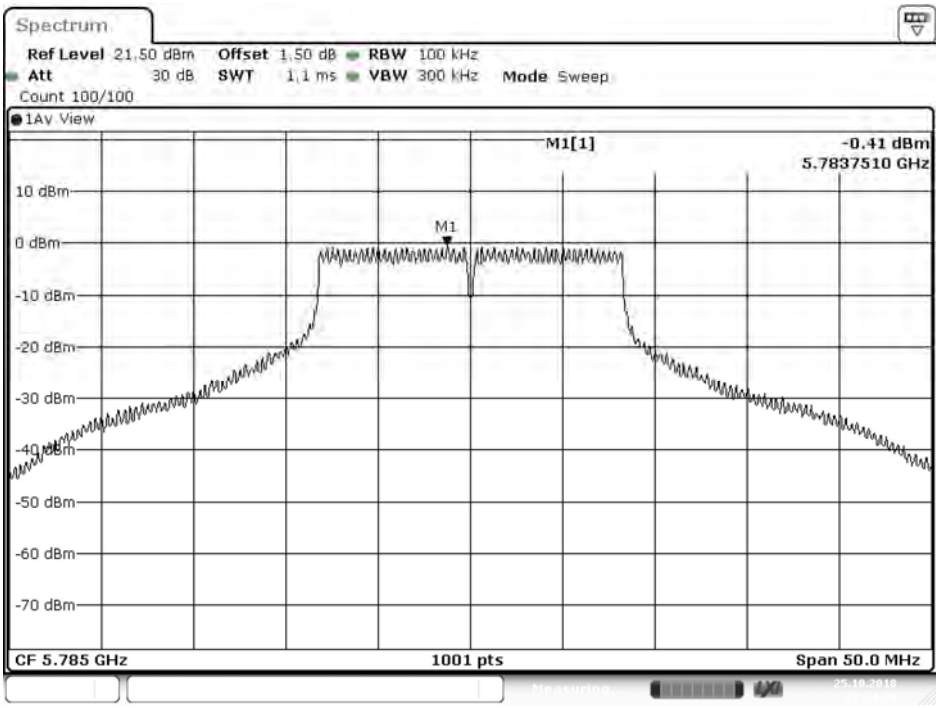
Date: 25.OCT.2018 21:22:52

Channel 149



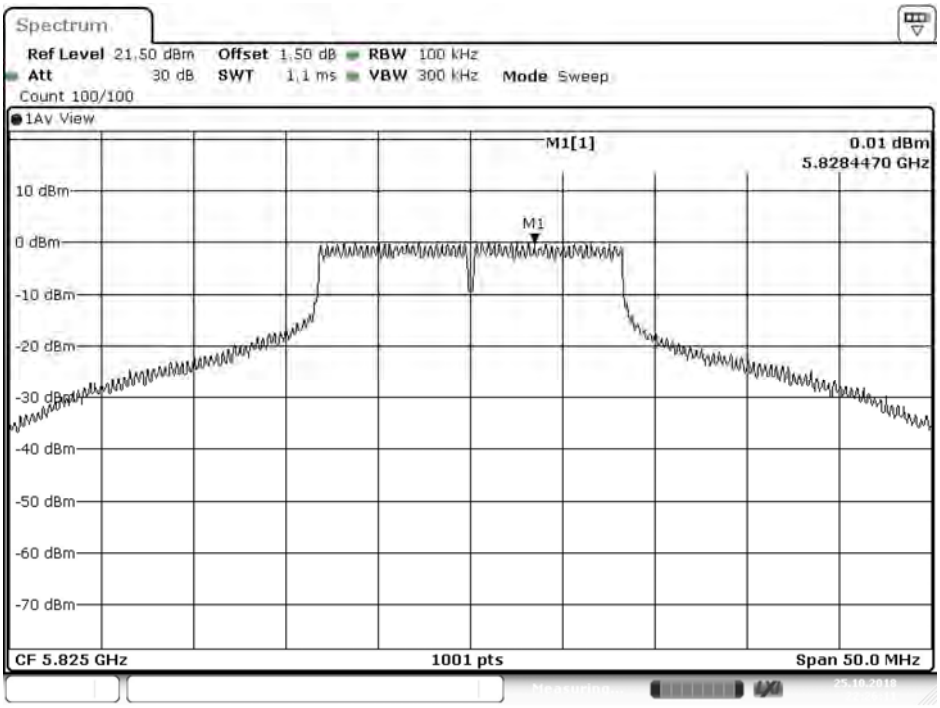
Date: 26.OCT.2018 11:48:13

Channel 157



Date: 25.OCT.2018 22:24:28

Channel 165



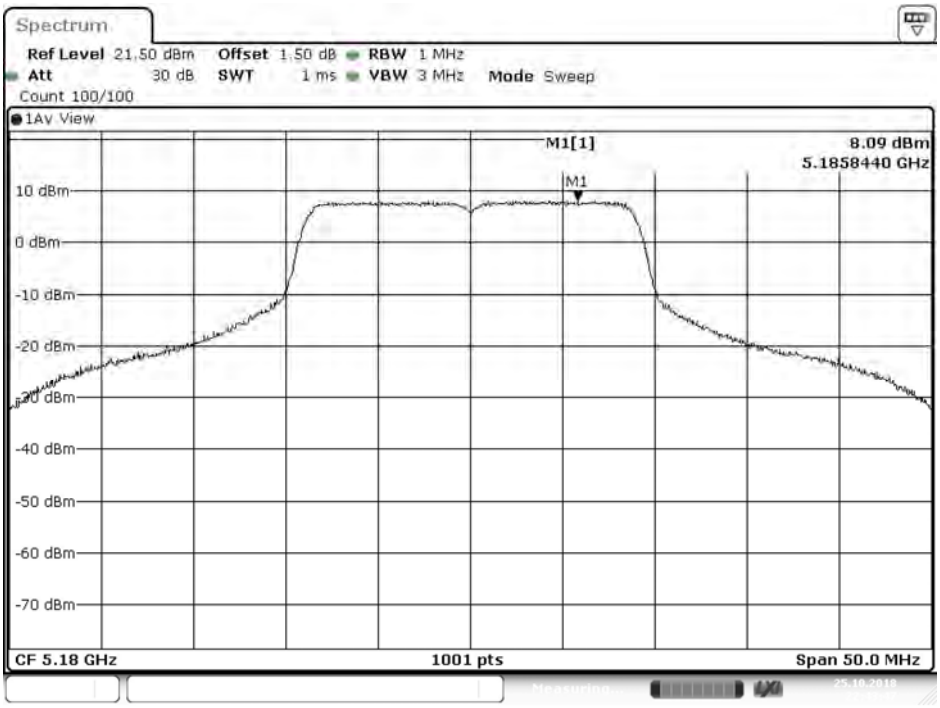
Date: 25.OCT.2018 22:26:11

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：1MHz
檢測器：峰值
測試日期：107 年 10 月 25 日
測試項目：峰值功率頻譜密度
測試模式：Mode 2: SISO B: 發射器 802.11n-20BW
視頻頻寬：3MHz
環境溫度：21 ℃
環境濕度：53 %

Channel Number	Frequency (MHz)	PPSD (dBm)	Required Limit (dBm)	Result
36	5180	8.09	<11	Pass
44	5220	8.09	<11	Pass
48	5240	7.89	<11	Pass
52	5260	7.77	<11	Pass
60	5300	7.58	<11	Pass
64	5320	7.55	<11	Pass
100	5500	7.82	<11	Pass
116	5580	7.81	<11	Pass
140	5700	7.49	<11	Pass

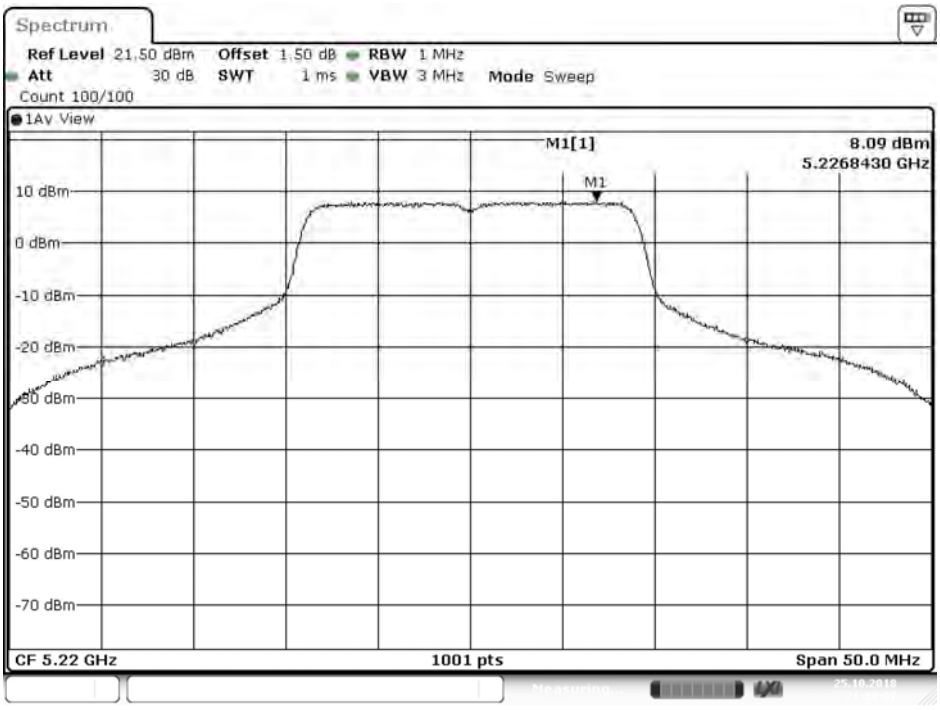
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
144(U-NII-2C)	5720	8.44	--	8.44	<11	Pass
144(U-NII-3)	5720	-0.34	6.98	6.64	<30	Pass
149	5745	-0.85	6.98	6.13	<30	Pass
157	5785	-0.60	6.98	6.38	<30	Pass
165	5825	-0.20	6.98	6.78	<30	Pass

Channel 36



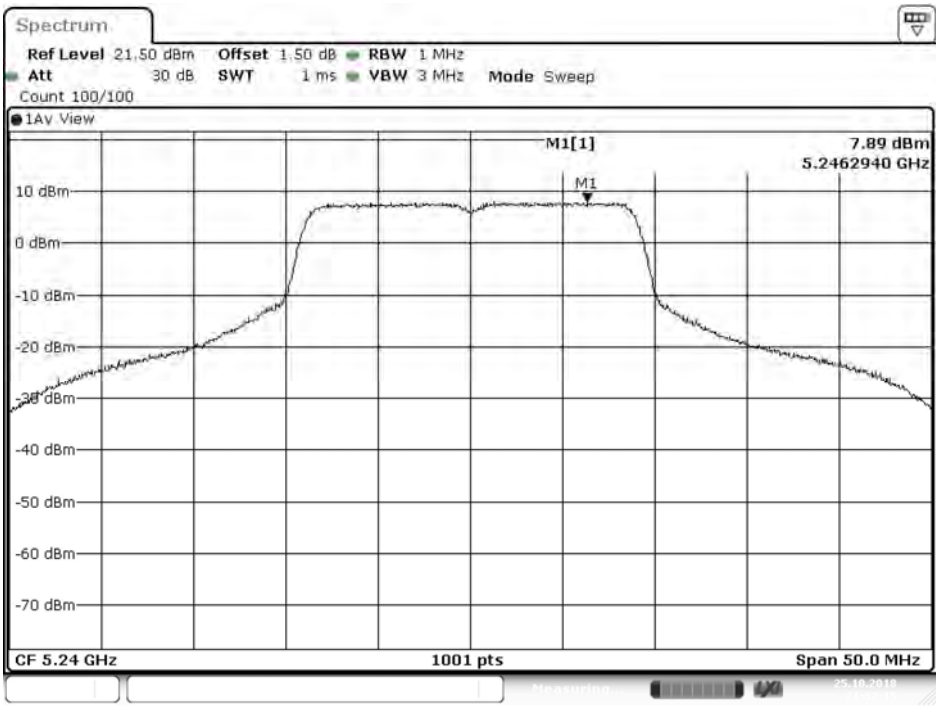
Date: 25.OCT.2018 22:43:47

Channel 44



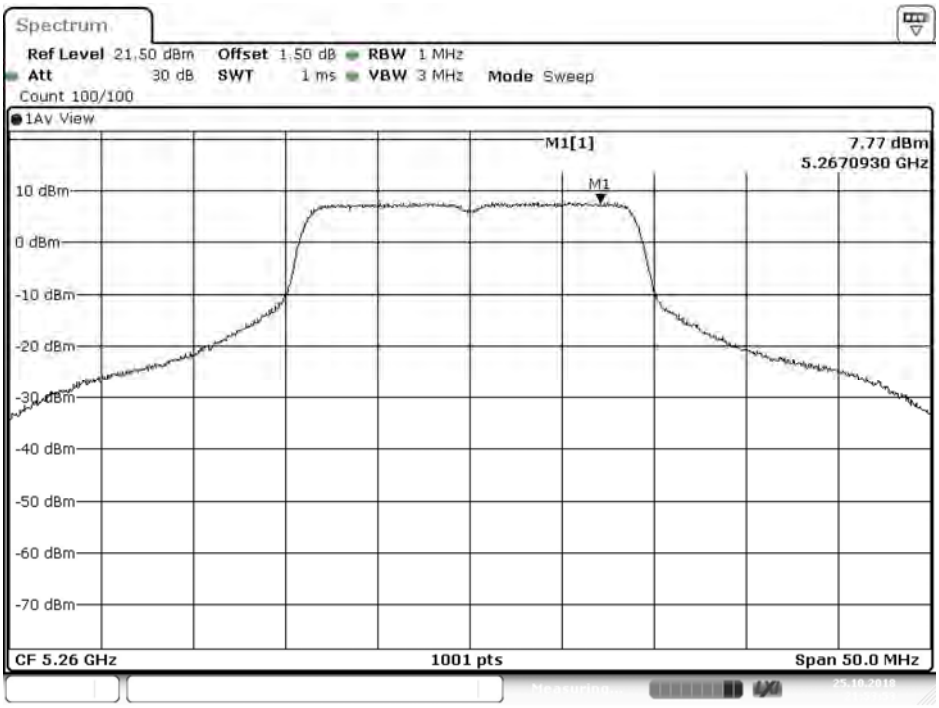
Date: 25.OCT.2018 21:50:07

Channel 48



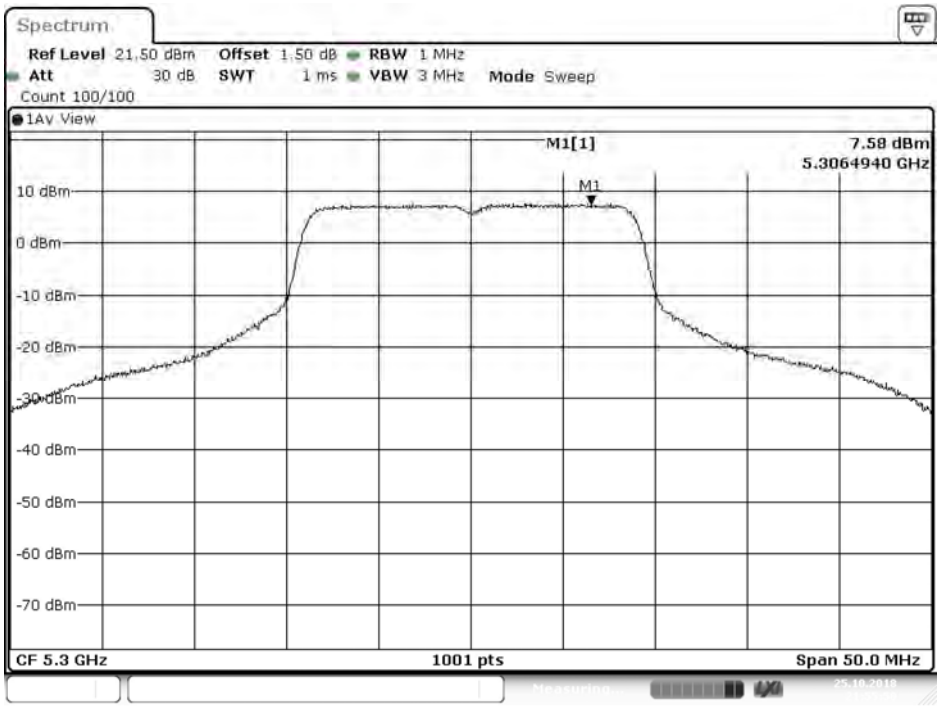
Date: 25.OCT.2018 21:52:16

Channel 52



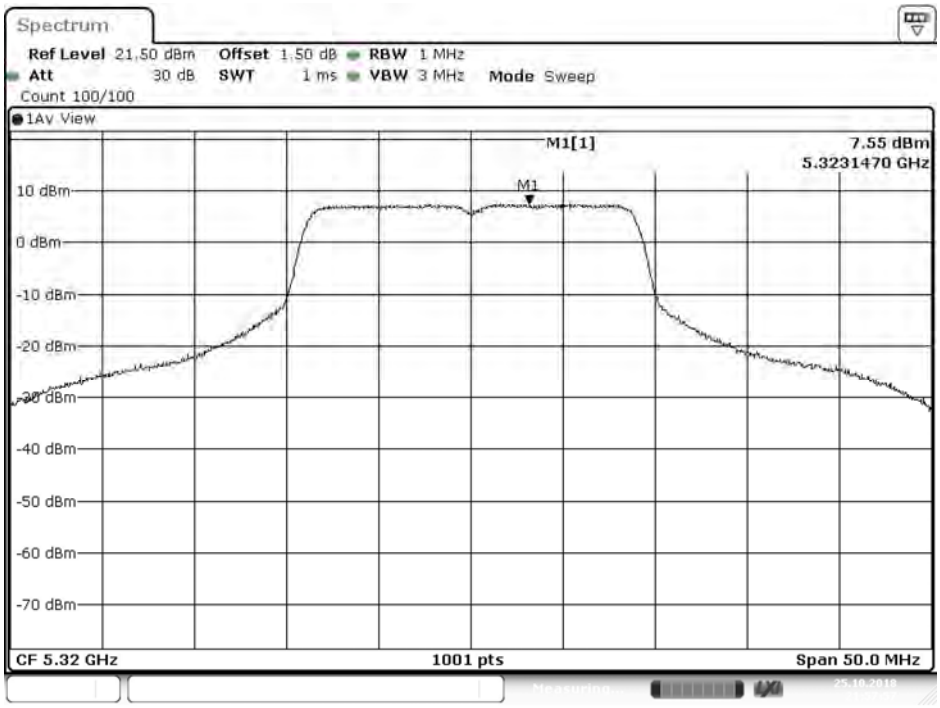
Date: 25.OCT.2018 21:53:54

Channel 60



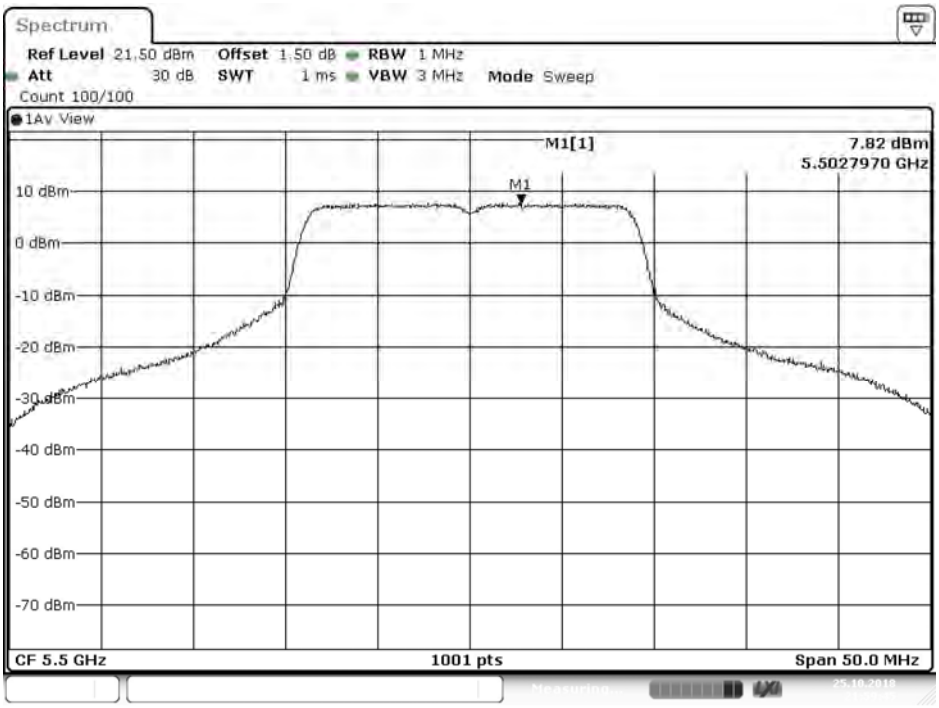
Date: 25.OCT.2018 21:55:50

Channel 64



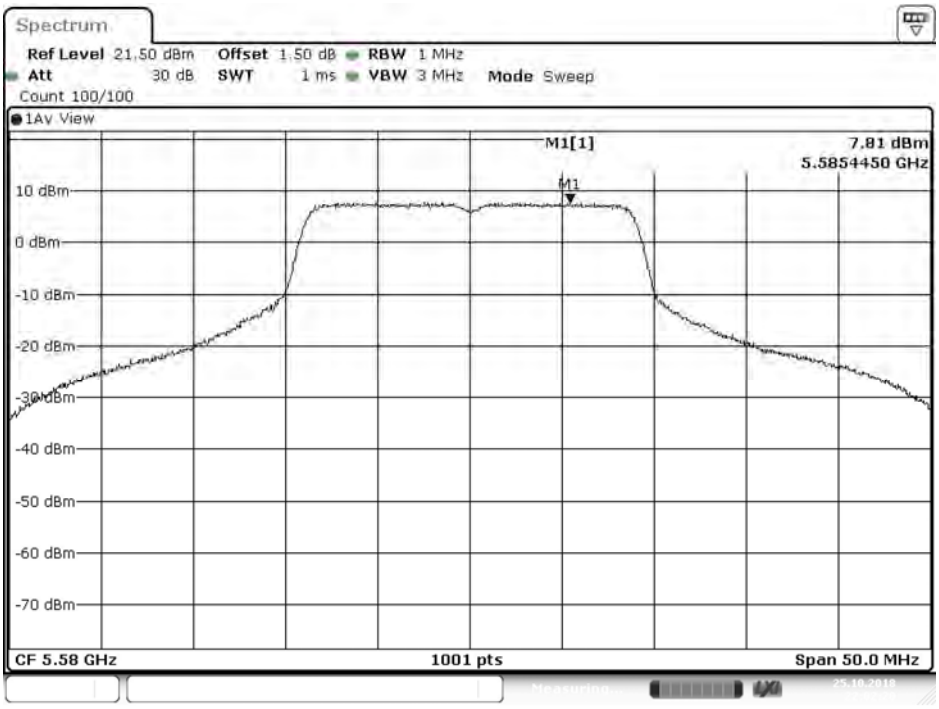
Date: 25.OCT.2018 21:57:57

Channel 100



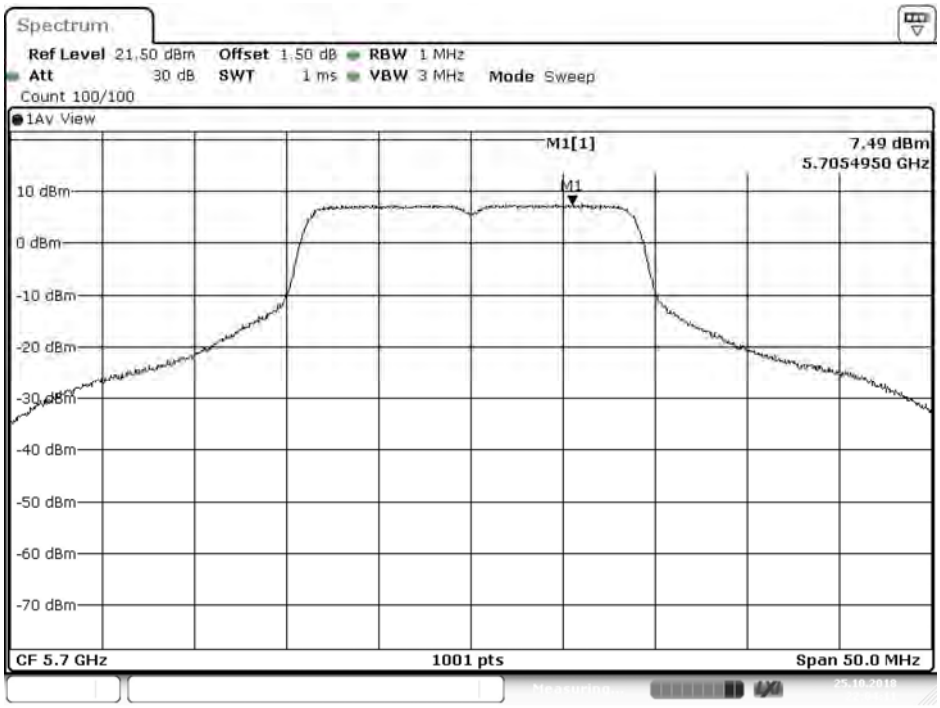
Date: 25.OCT.2018 21:59:46

Channel 116



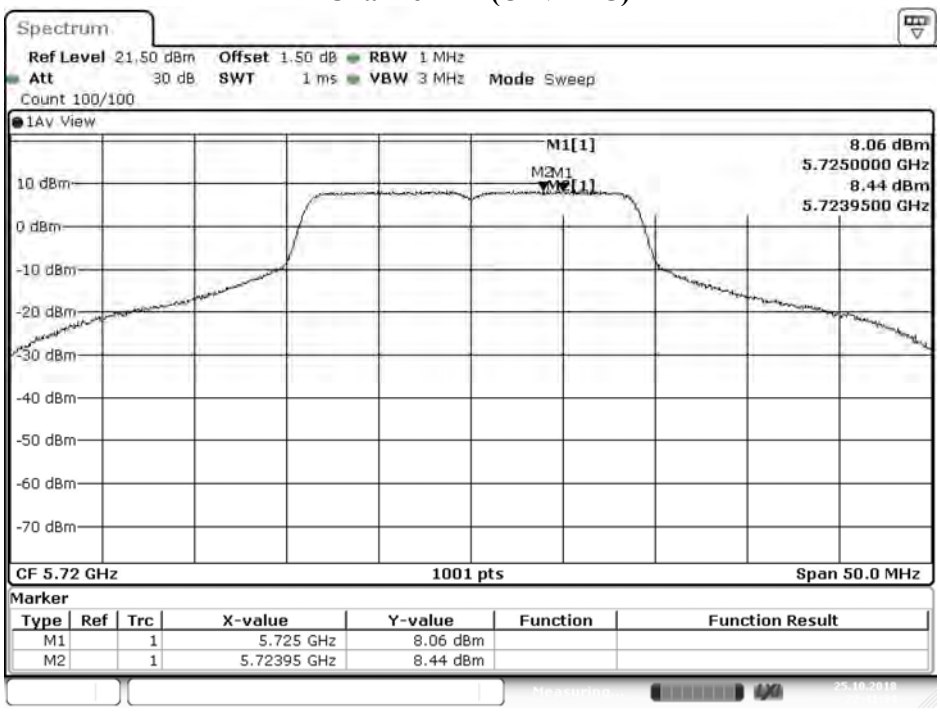
Date: 25.OCT.2018 22:02:21

Channel 140



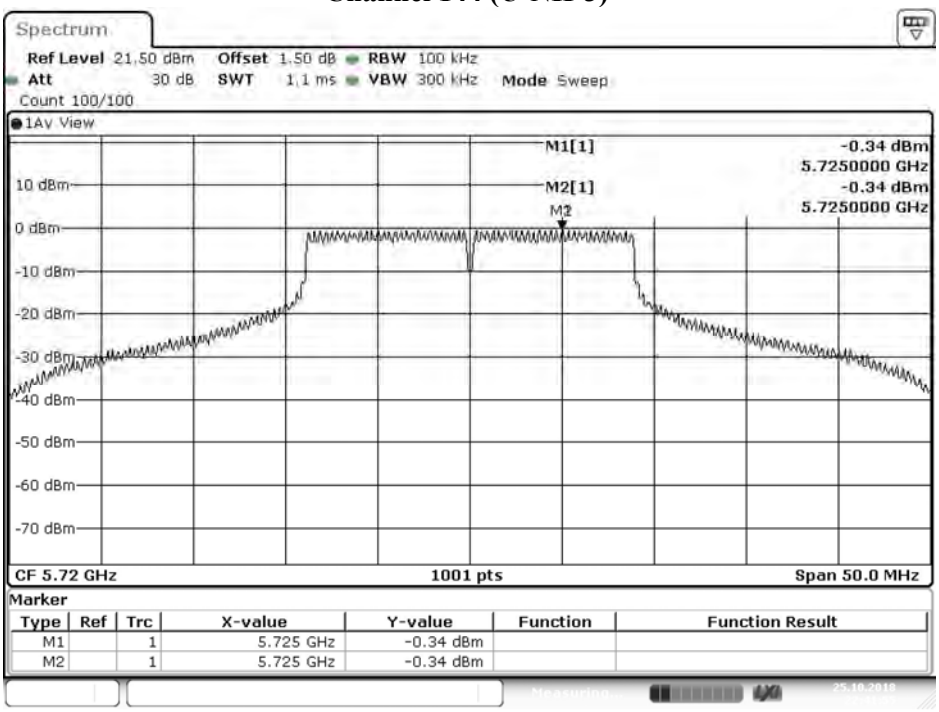
Date: 25.OCT.2018 22:04:11

Channel 144 (U-NII-2C)



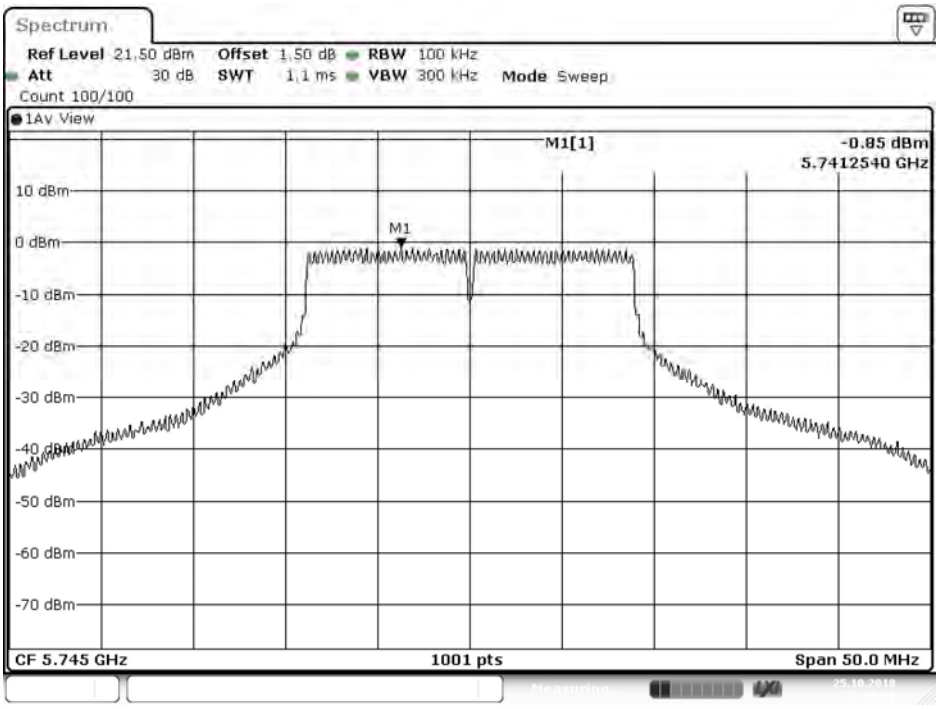
Date: 25.OCT.2018 22:41:34

Channel 144 (U-NII-3)



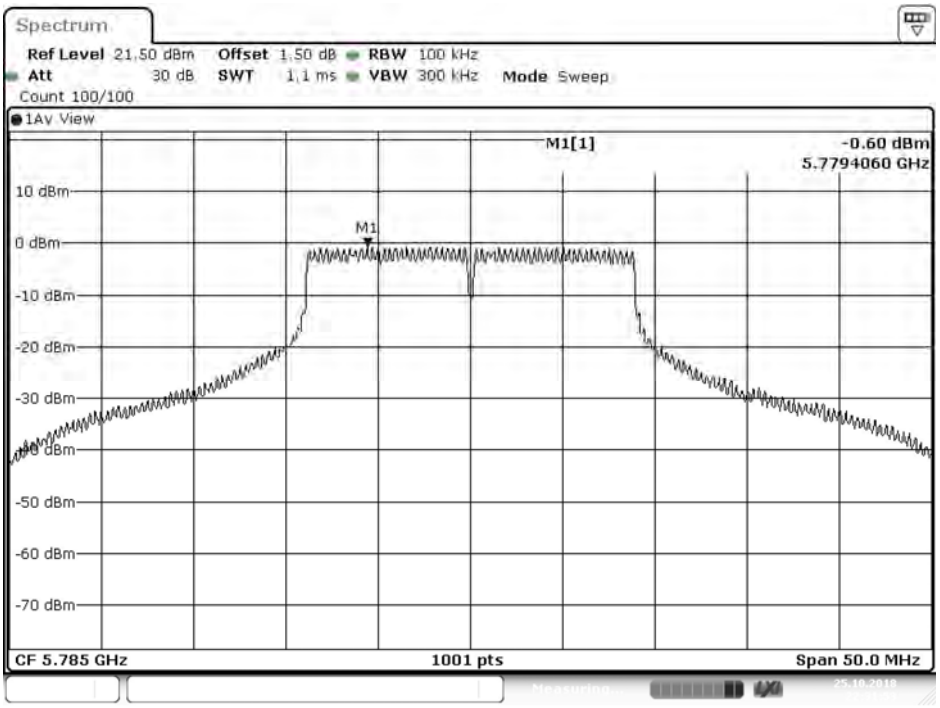
Date: 25.OCT.2018 22:41:55

Channel 149



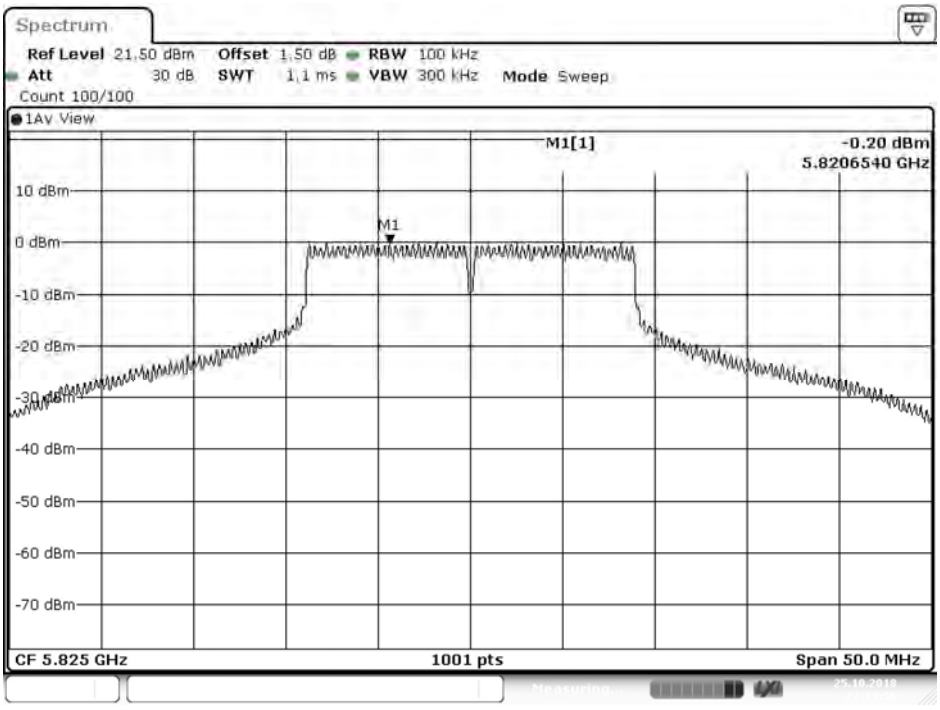
Date: 25.OCT.2018 22:30:08

Channel 157



Date: 25.OCT.2018 22:31:54

Channel 165



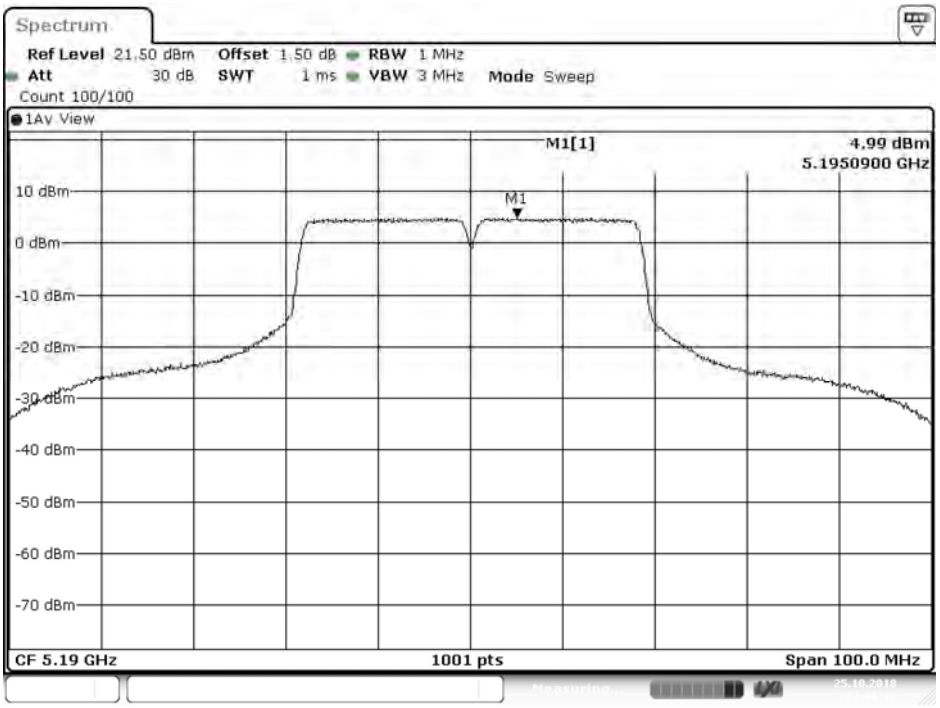
Date: 25.OCT.2018 22:33:56

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：1MHz
檢測器：峰值
測試日期：107 年 10 月 25 日
測試項目：峰值功率頻譜密度
測試模式：Mode 2: SISO B: 發射器 802.11n-40BW
視頻頻寬：3MHz
環境溫度：21 ℃
環境濕度：53 %

Channel Number	Frequency (MHz)	PPSD (dBm)	Required Limit (dBm)	Result
38	5190	4.99	<11	Pass
46	5230	4.79	<11	Pass
54	5270	4.86	<11	Pass
62	5310	4.45	<11	Pass
102	5510	4.76	<11	Pass
110	5550	4.70	<11	Pass
134	5670	4.73	<11	Pass

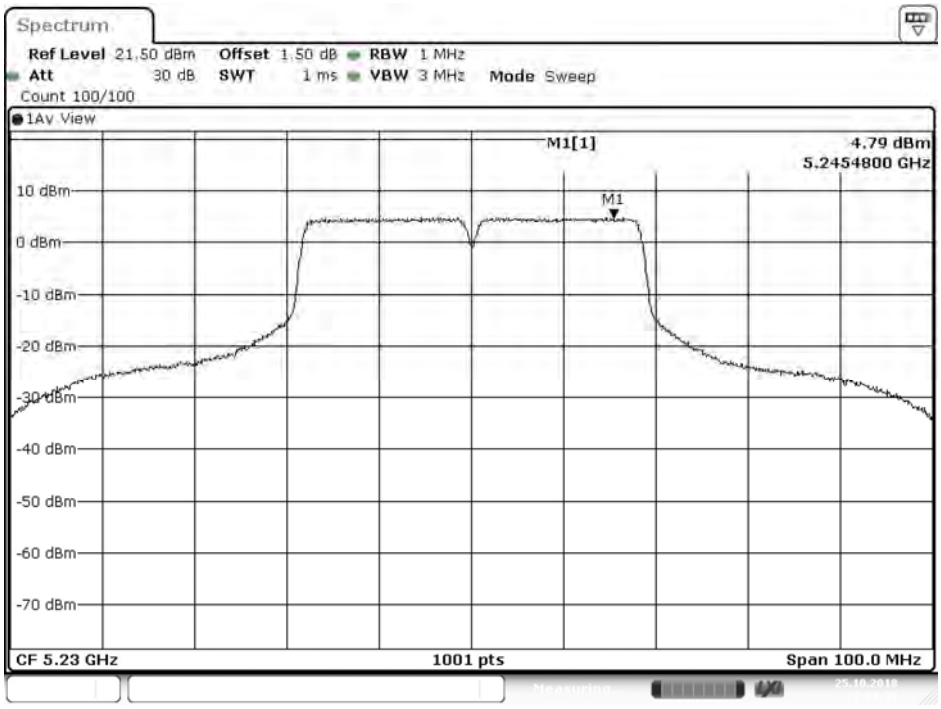
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
142(U-NII-2C)	5710	5.03	--	5.03	<11	Pass
142(U-NII-3)	5710	-3.72	6.98	3.26	<30	Pass
151	5755	-3.99	6.98	2.99	<30	Pass
159	5795	-3.41	6.98	3.57	<30	Pass

Channel 38



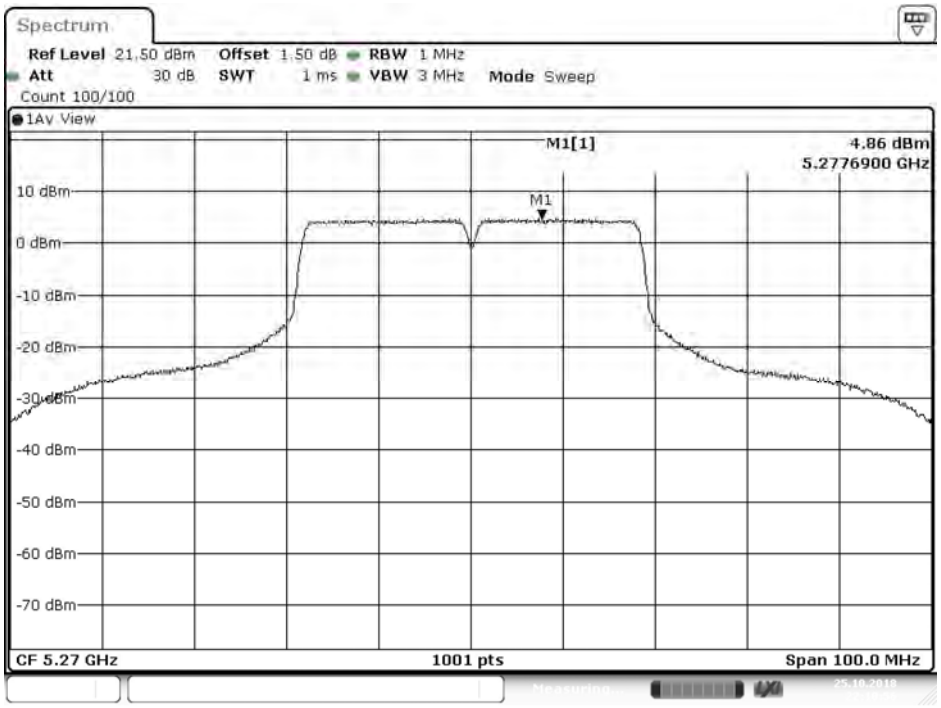
Date: 25.OCT.2018 22:06:32

Channel 46



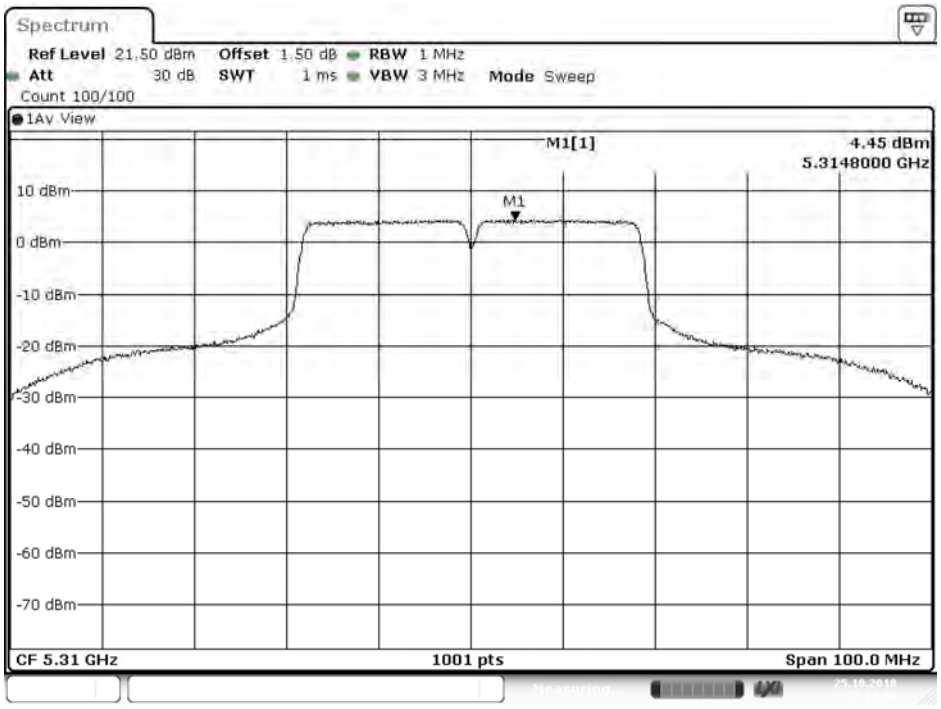
Date: 25.OCT.2018 22:08:39

Channel 54



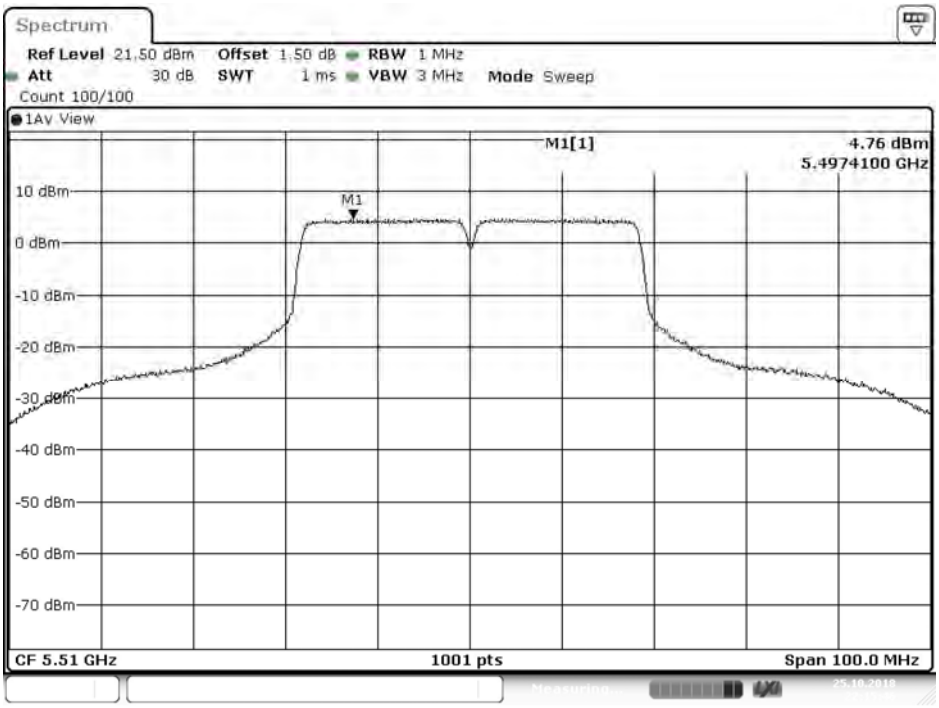
Date: 25.OCT.2018 22:10:56

Channel 62



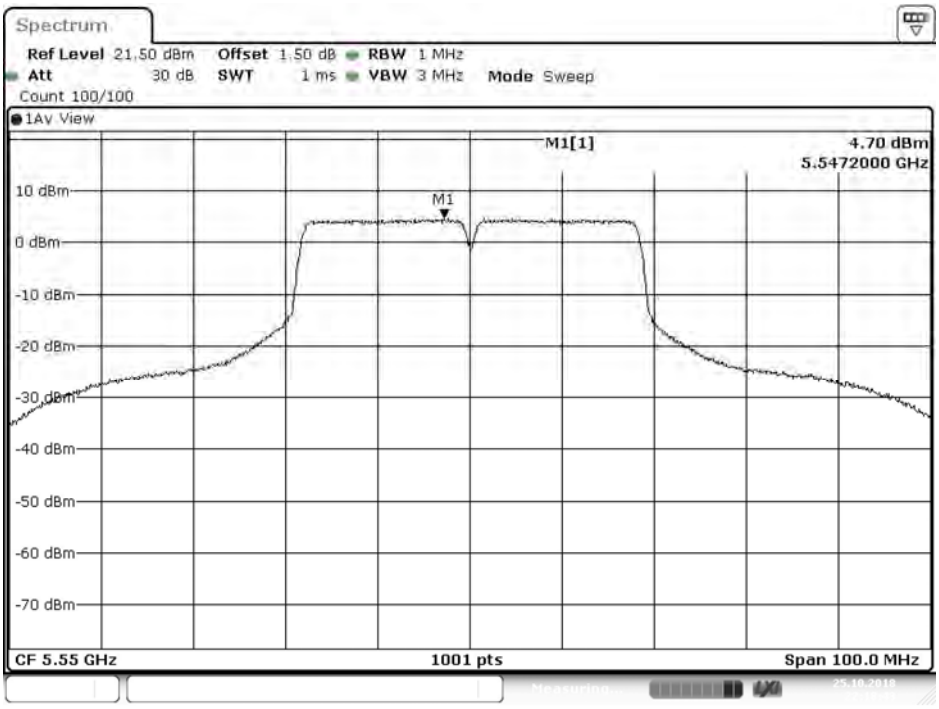
Date: 25.OCT.2018 22:13:39

Channel 102



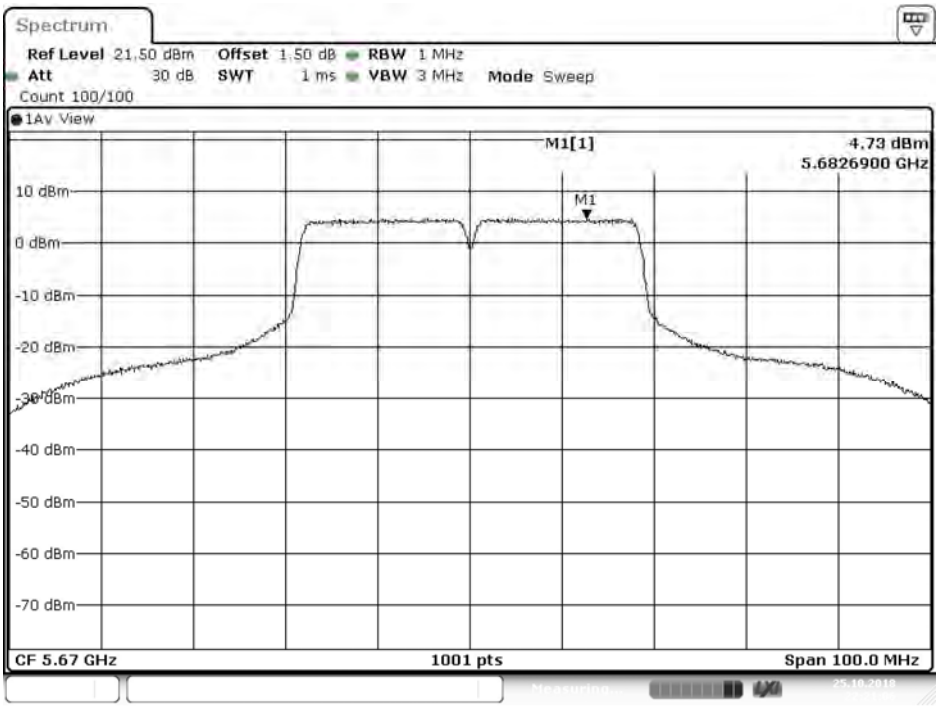
Date: 25.OCT.2018 22:15:46

Channel 110



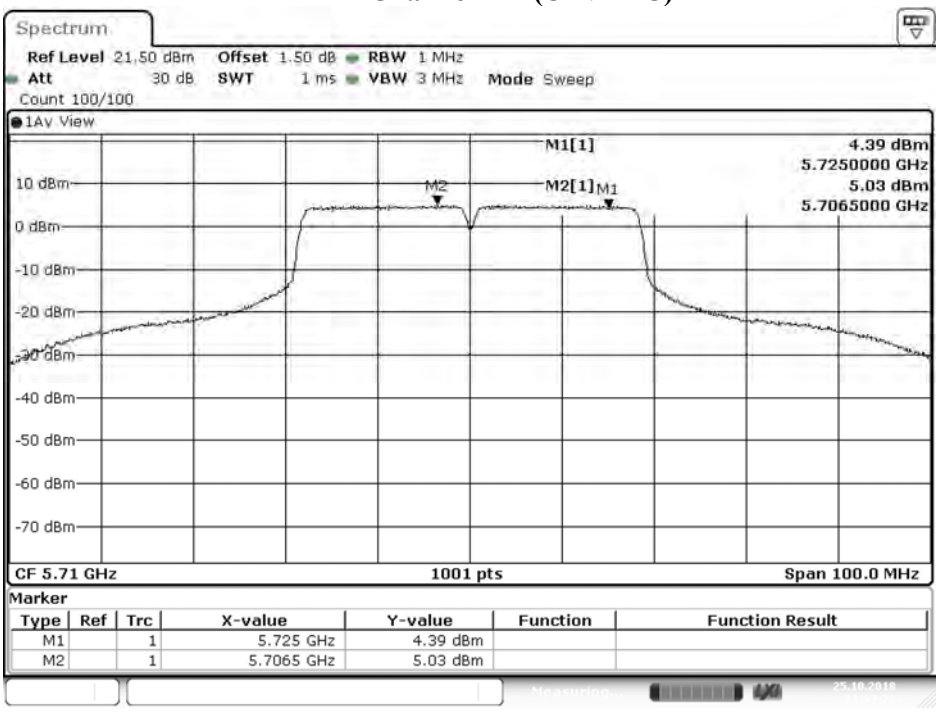
Date: 25.OCT.2018 22:18:44

Channel 134



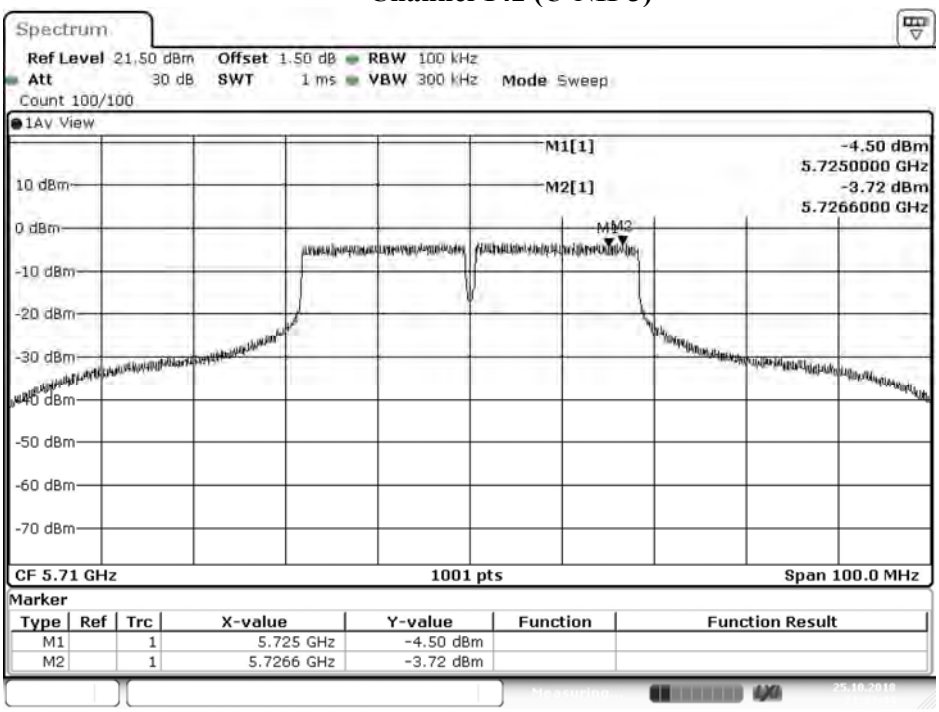
Date: 25.OCT.2018 22:21:07

Channel 142 (U-NII-2C)



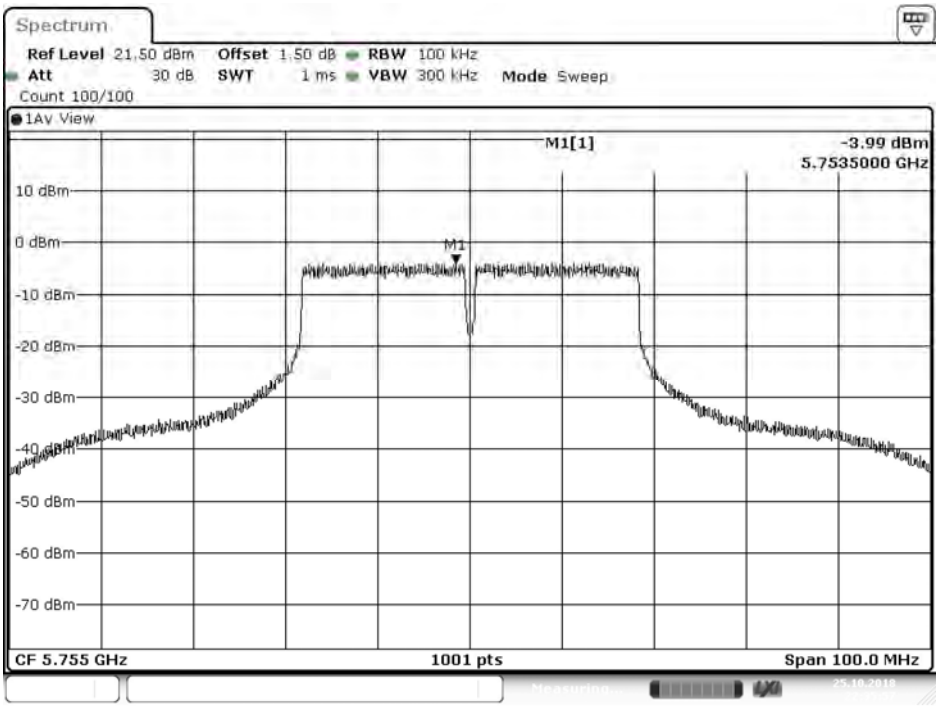
Date: 25.OCT.2018 21:33:23

Channel 142 (U-NII-3)



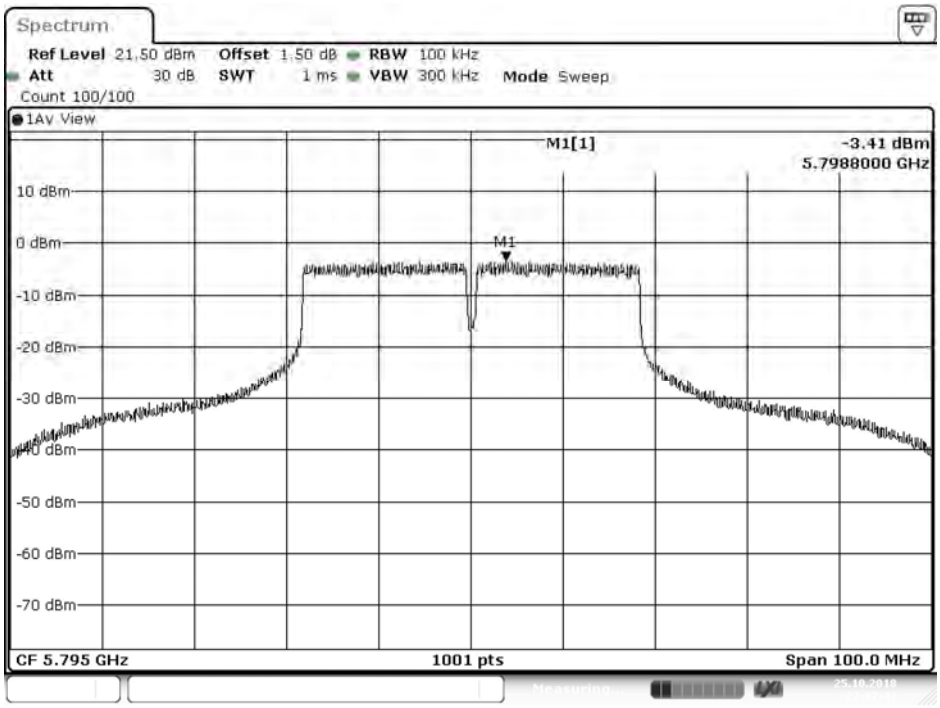
Date: 25.OCT.2018 21:33:44

Channel 151



Date: 25.OCT.2018 22:35:57

Channel 159

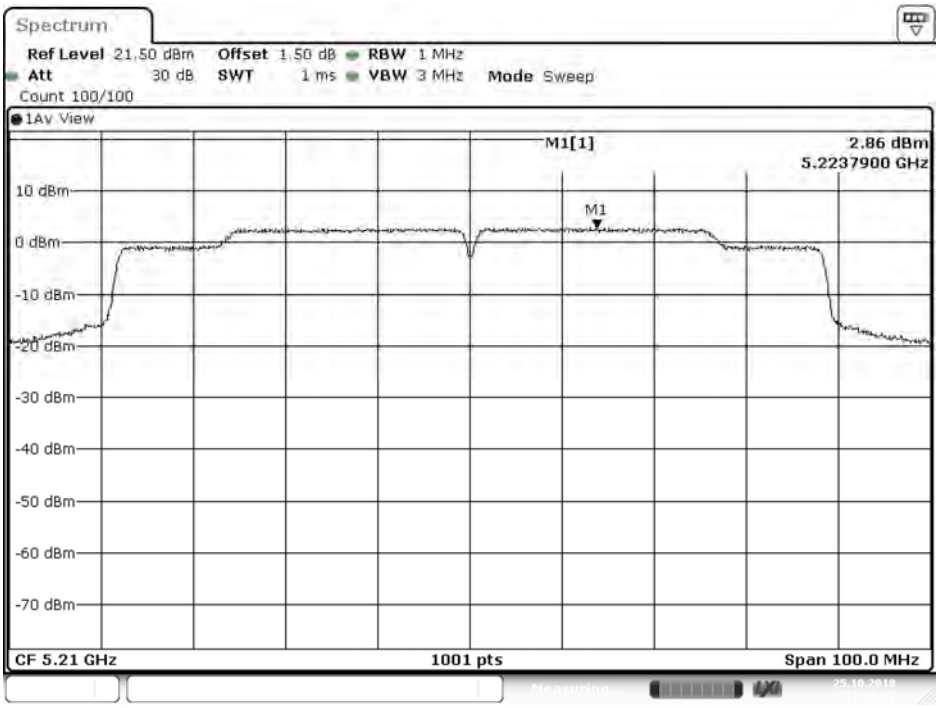


Date: 25.OCT.2018 22:37:43

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：1MHz
檢測器：峰值
測試日期：107 年 10 月 25 日
測試項目：峰值功率頻譜密度
測試模式：Mode 2: SISO B: 發射器 802.11ac-80BW
視頻頻寬：3MHz
環境溫度：21 ℃
環境濕度：53 %

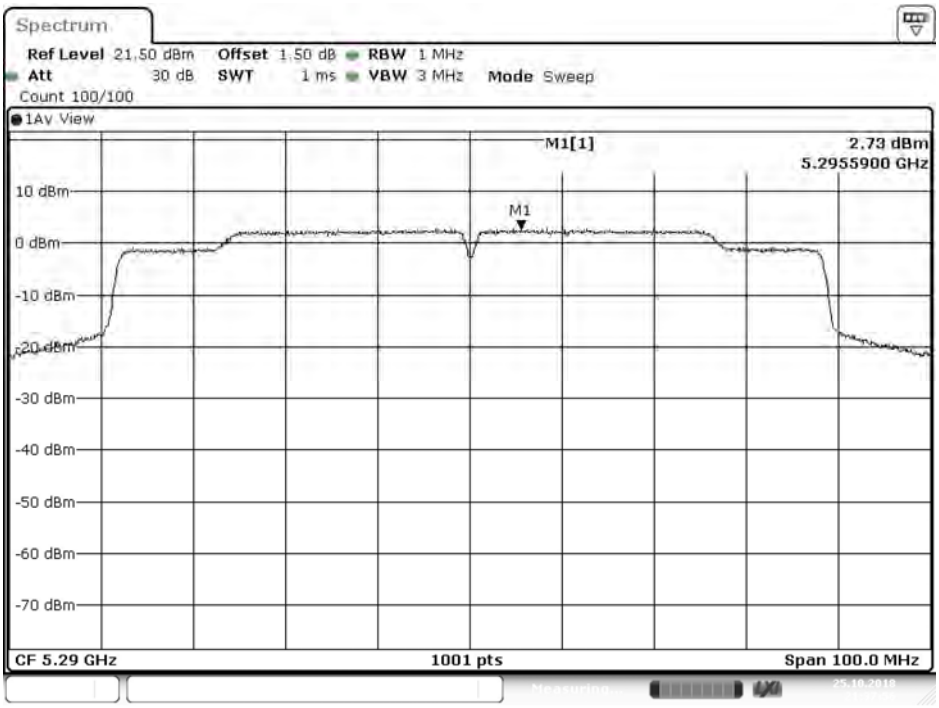
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
42	5210	2.86	--	2.86	<11	Pass
58	5290	2.73	--	2.73	<11	Pass
106	5530	3.25	--	3.25	<11	Pass
122	5610	2.67	--	2.67	<11	Pass
138(U-NII-2C)	5690	2.66	--	2.66	<11	Pass
138(U-NII-3)	5690	-9.47	6.98	-2.49	<30	Pass
155	5775	-4.96	6.98	2.02	<30	Pass

Channel 42



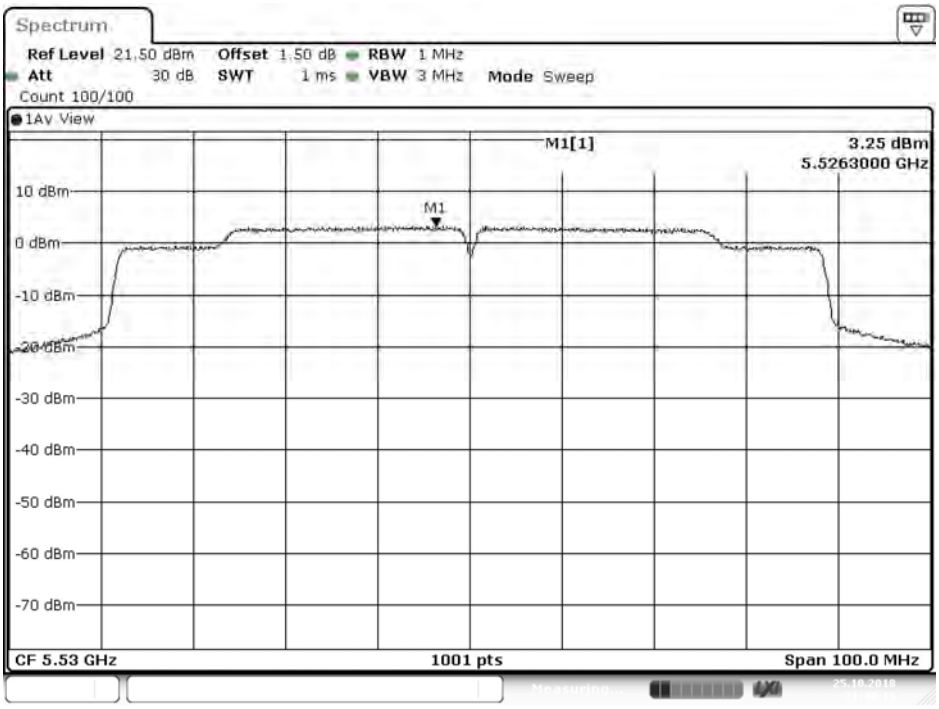
Date: 25.OCT.2018 21:36:07

Channel 58



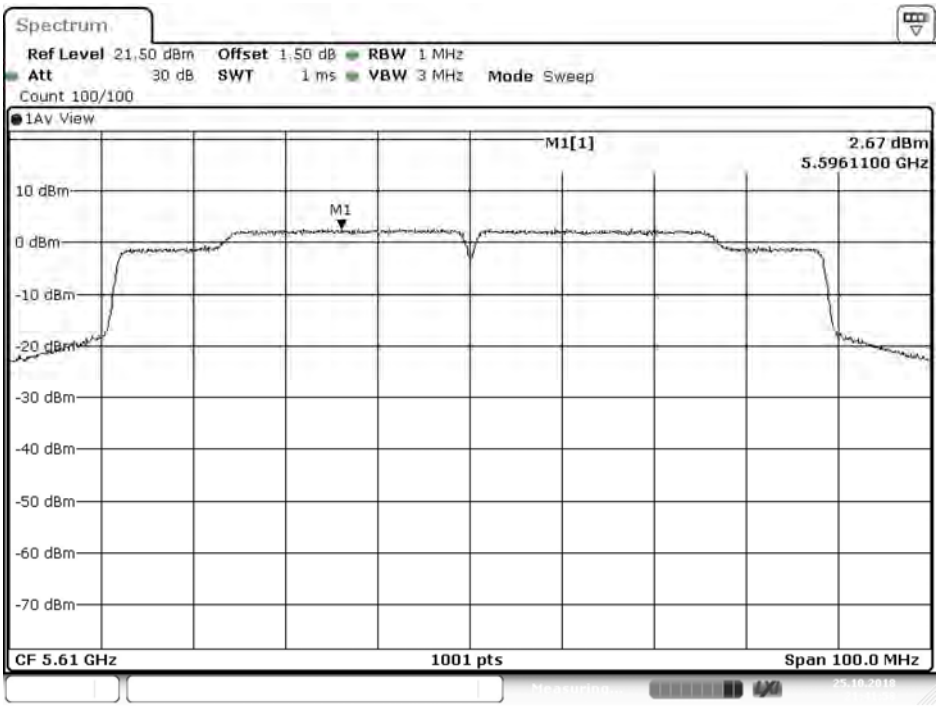
Date: 25.OCT.2018 21:37:56

Channel 106



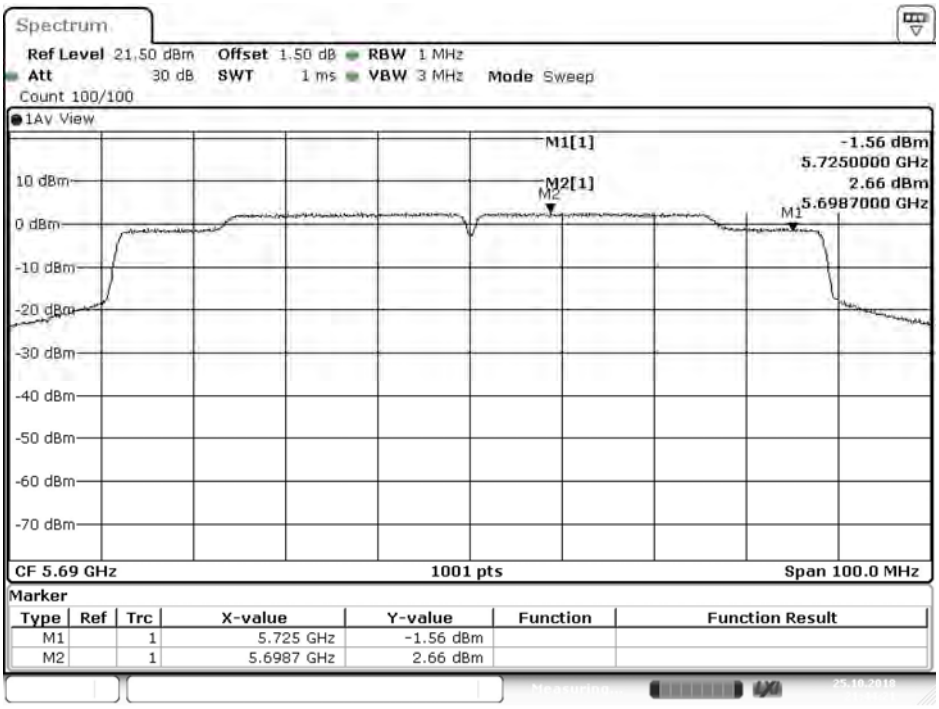
Date: 25.OCT.2018 21:40:20

Channel 122



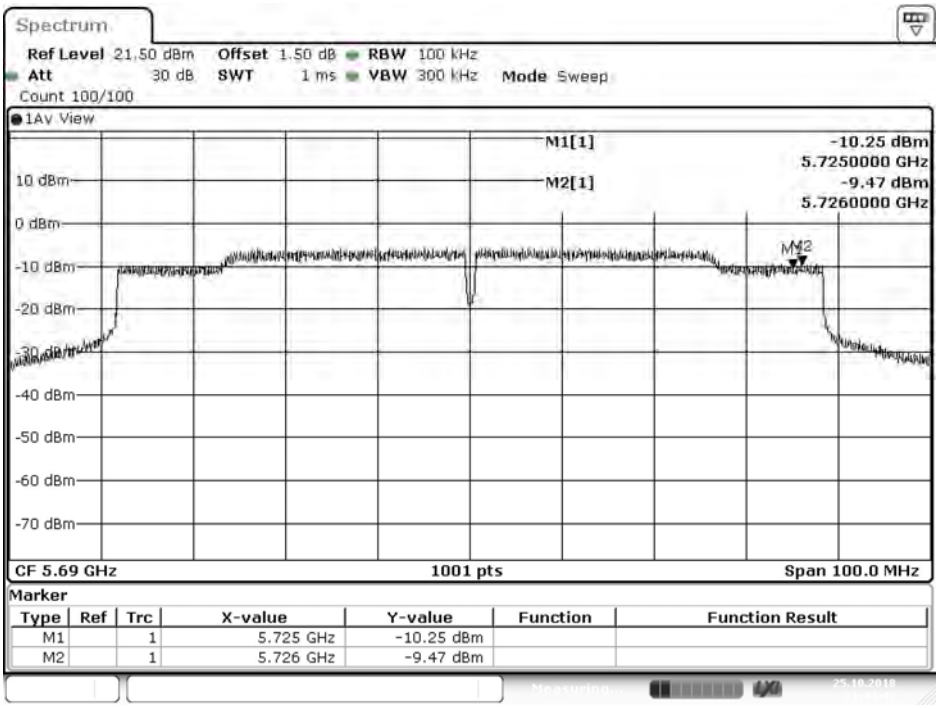
Date: 25.OCT.2018 21:41:58

Channel 138 (U-NII-2C)



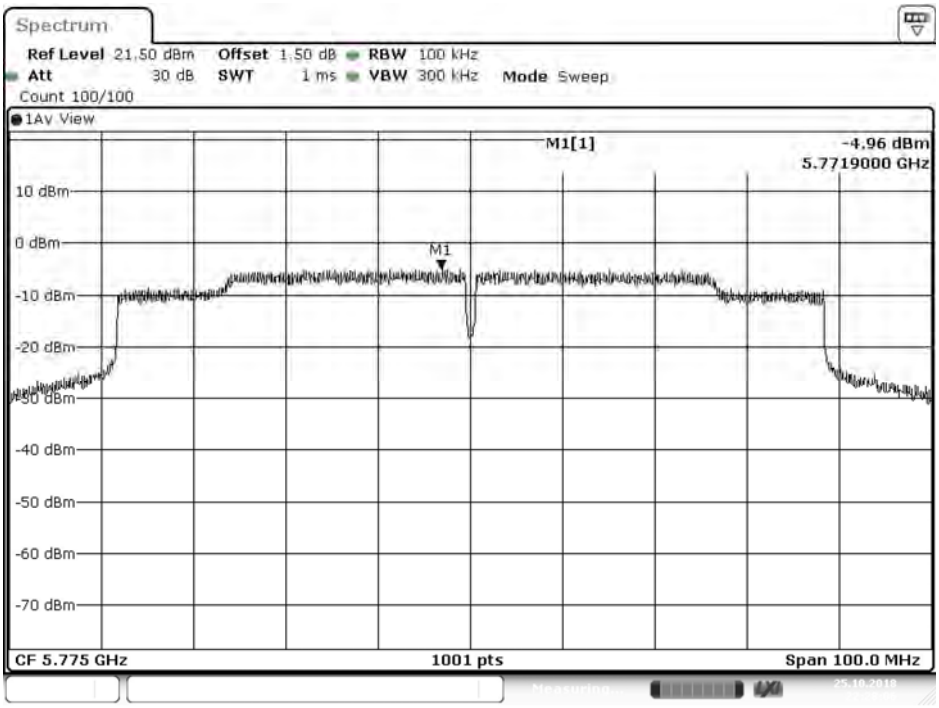
Date: 25.OCT.2018 21:44:21

Channel 138 (U-NII-3)



Date: 25.OCT.2018 21:44:42

Channel 155



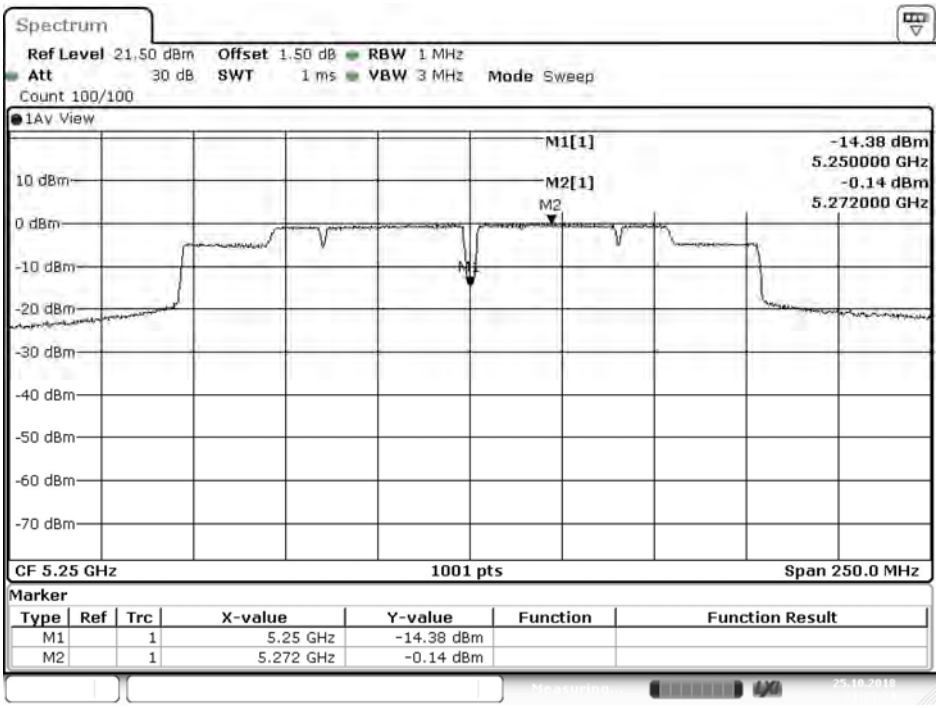
Date: 25.OCT.2018 22:28:07

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：1MHz
檢測器：峰值
測試日期：107 年 10 月 25 日

測試項目：峰值功率頻譜密度
測試模式：Mode 2: SISO B: 發射器 802.11ac-160BW
視頻頻寬：3MHz
環境溫度：21 ℃
環境濕度：53 %

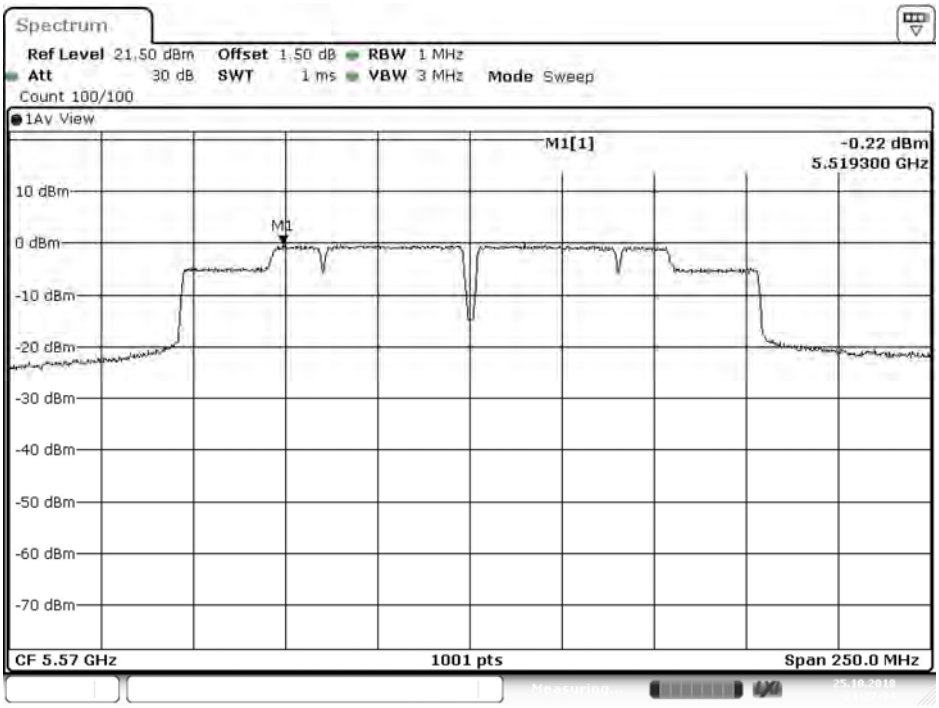
Channel Number	Frequency (MHz)	PPSD (dBm)	Required Limit (dBm)	Result
50	5250	-0.14	<11	Pass
114	5570	-0.22	<11	Pass

Channel 50



Date: 25.OCT.2018 21:25:25

Channel 114



Date: 25.OCT.2018 21:27:34

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL　　測試項目：峰值功率頻譜密度
測試頻道：--　　測試模式：Mode 3: MIMO: 發射器 802.11n-20BW
6 dB 頻寬：1MHz　　視頻頻寬：3MHz
檢測器：峰值　　環境溫度：21 ℃
測試日期：107 年 11 月 02 日　　環境濕度：53 %

Channel Number	Frequency (MHz)	Chain (dBm)	PPSD (dBm)	Total PPSD (dBm)	Required Limit (dBm)	Result
36	5180	A	5.81	8.82	<11	Pass
		B	6.01	9.02	<11	Pass
44	5220	A	5.75	8.76	<11	Pass
		B	5.66	8.67	<11	Pass
48	5240	A	5.84	8.85	<11	Pass
		B	5.79	8.80	<11	Pass
52	5260	A	5.72	8.73	<11	Pass
		B	5.89	8.90	<11	Pass
60	5300	A	5.72	8.73	<11	Pass
		B	5.56	8.57	<11	Pass
64	5320	A	5.52	8.53	<11	Pass
		B	5.39	8.40	<11	Pass
100	5500	A	5.82	8.83	<11	Pass
		B	5.59	8.60	<11	Pass
116	5580	A	5.81	8.82	<11	Pass
		B	5.72	8.73	<11	Pass
140	5700	A	5.59	8.60	<11	Pass
		B	5.49	8.50	<11	Pass

Note:

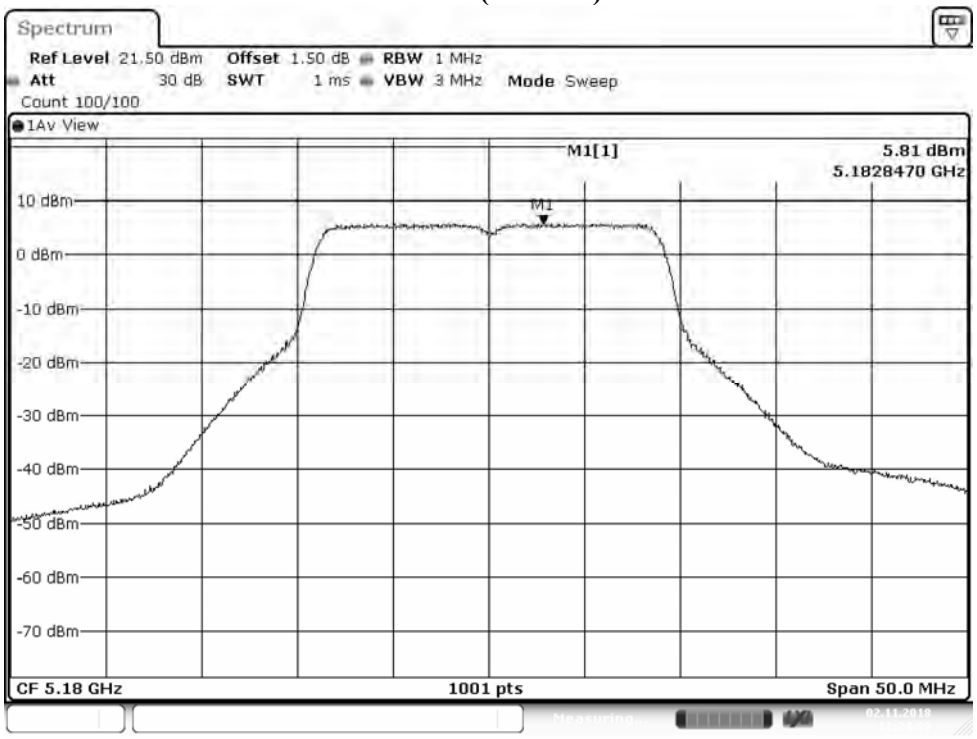
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Channel Number	Frequency (MHz)	Chain (dBm)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
144 (U-NII-2C)	5720	A	6.15	--	9.16	<11	Pass
		B	6.04	--	9.05	<11	Pass
144 (U-NII-3)	5720	A	-2.45	6.98	7.54	<30	Pass
		B	-2.68	6.98	7.31	<30	Pass
149	5745	A	-3.22	6.98	6.77	<30	Pass
		B	-2.76	6.98	7.23	<30	Pass
157	5785	A	-2.89	6.98	7.10	<30	Pass
		B	-2.48	6.98	7.51	<30	Pass
165	5825	A	-2.66	6.98	7.33	<30	Pass
		B	-2.84	6.98	7.15	<30	Pass

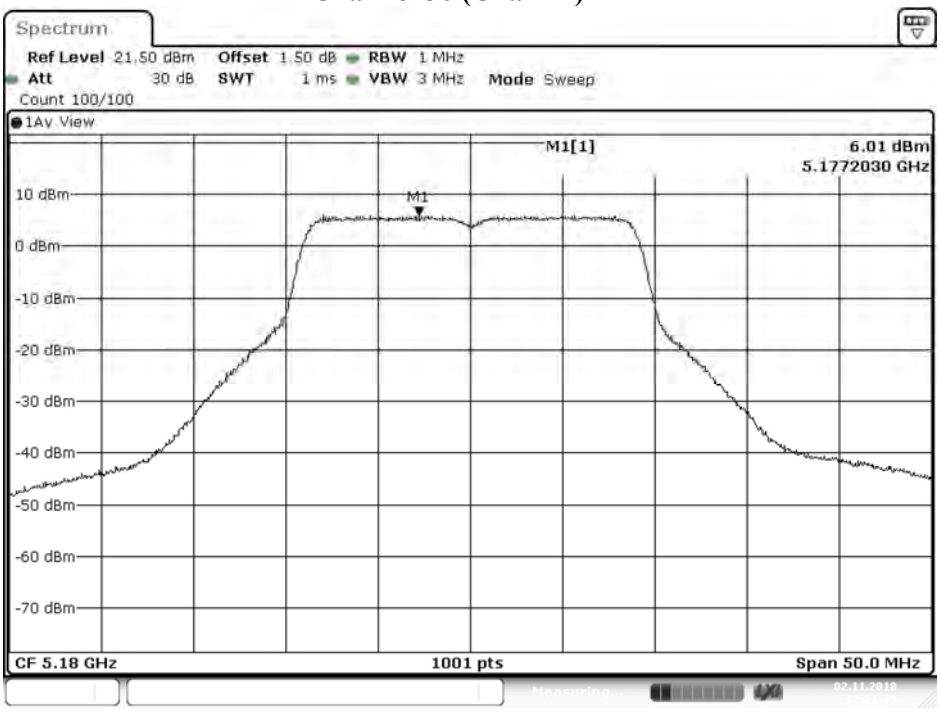
Note:

The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Channel 36 (Chain A)



Channel 36 (Chain B)



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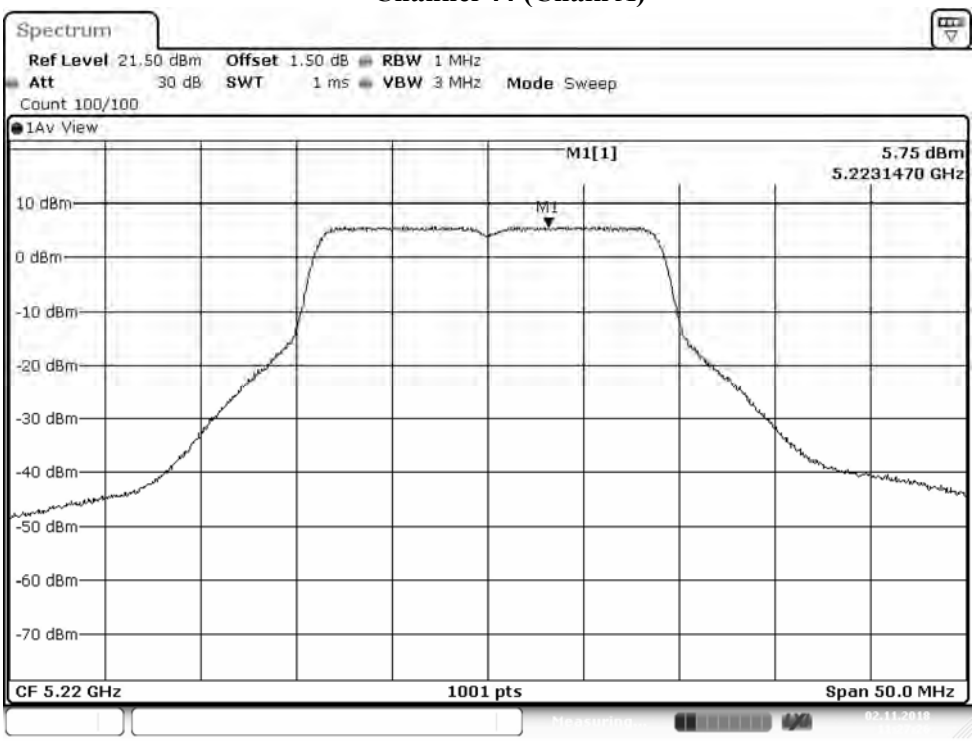
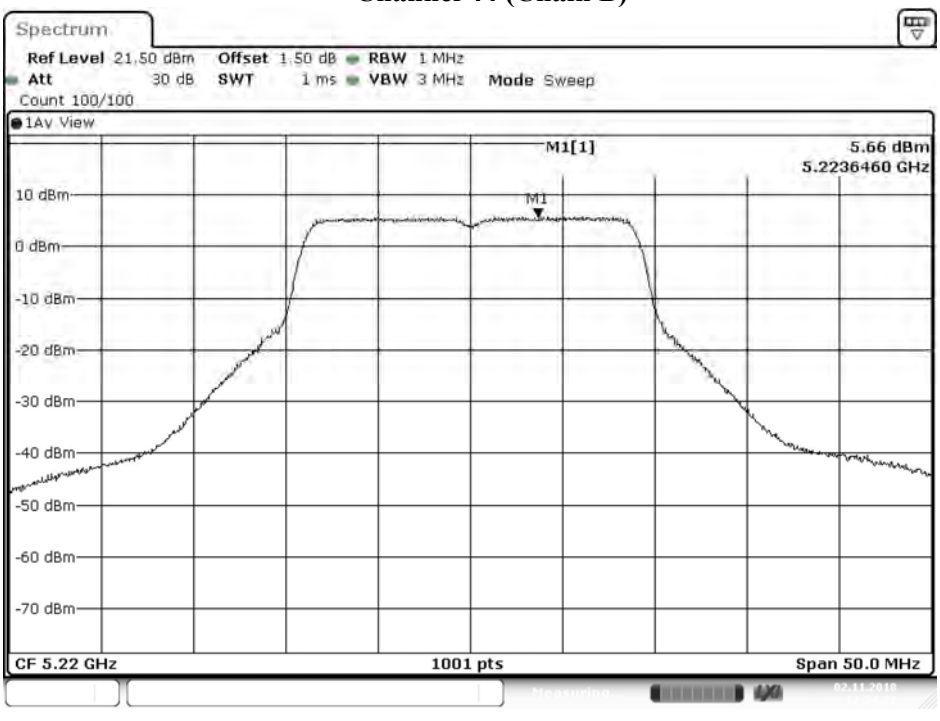
Channel 44 (Chain A)

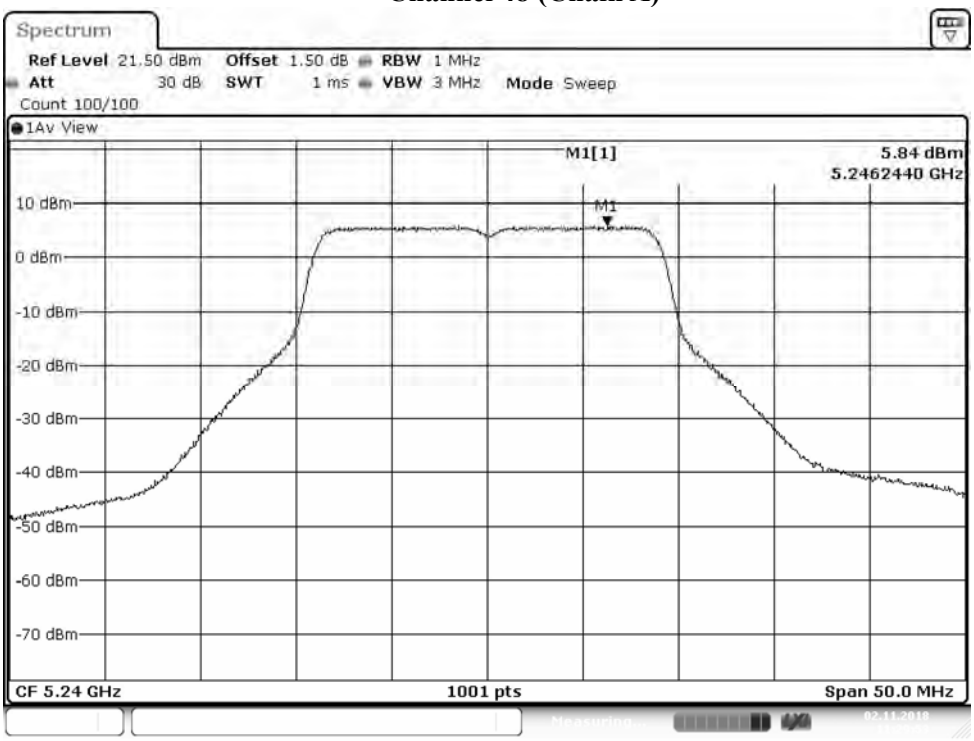


Channel 44 (Chain B)

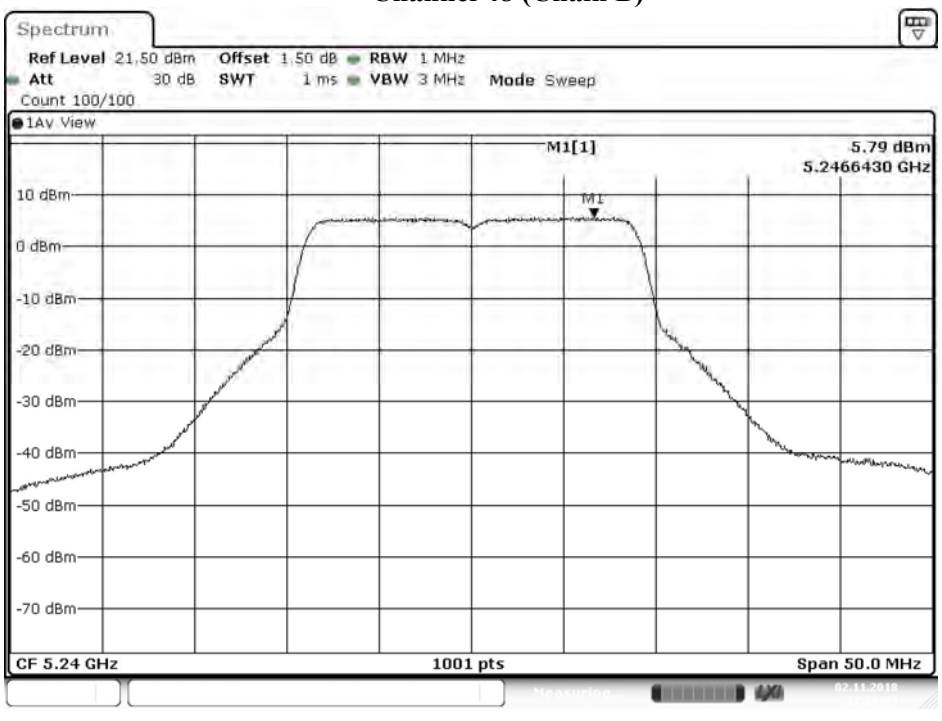


Date: 2.NOV.2018 12:24:22

Channel 48 (Chain A)



Channel 48 (Chain B)



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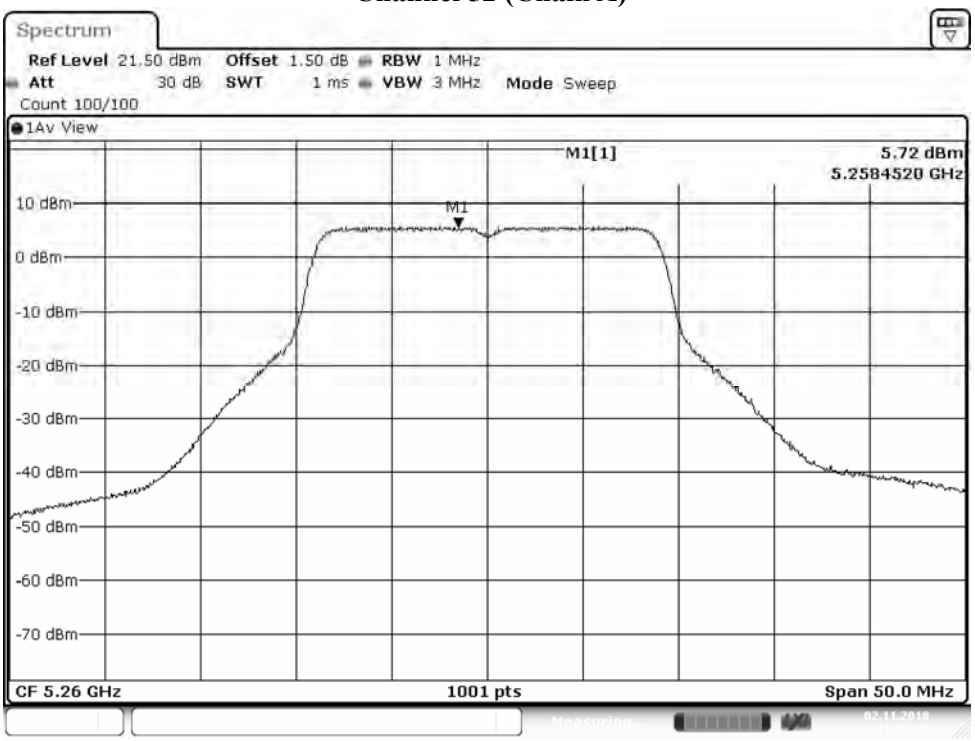
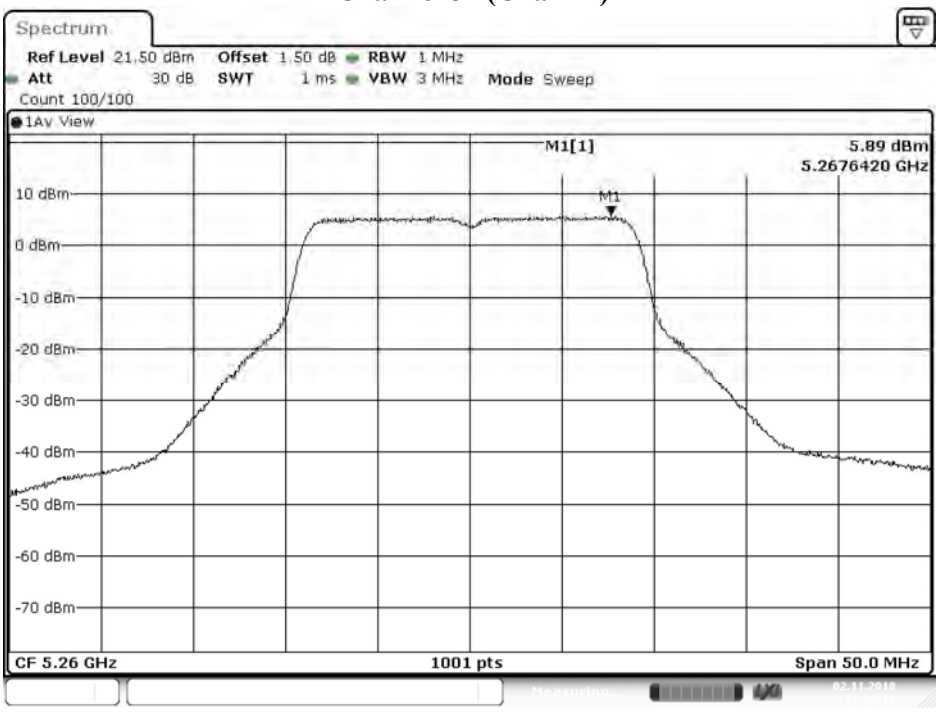
Channel 52 (Chain A)

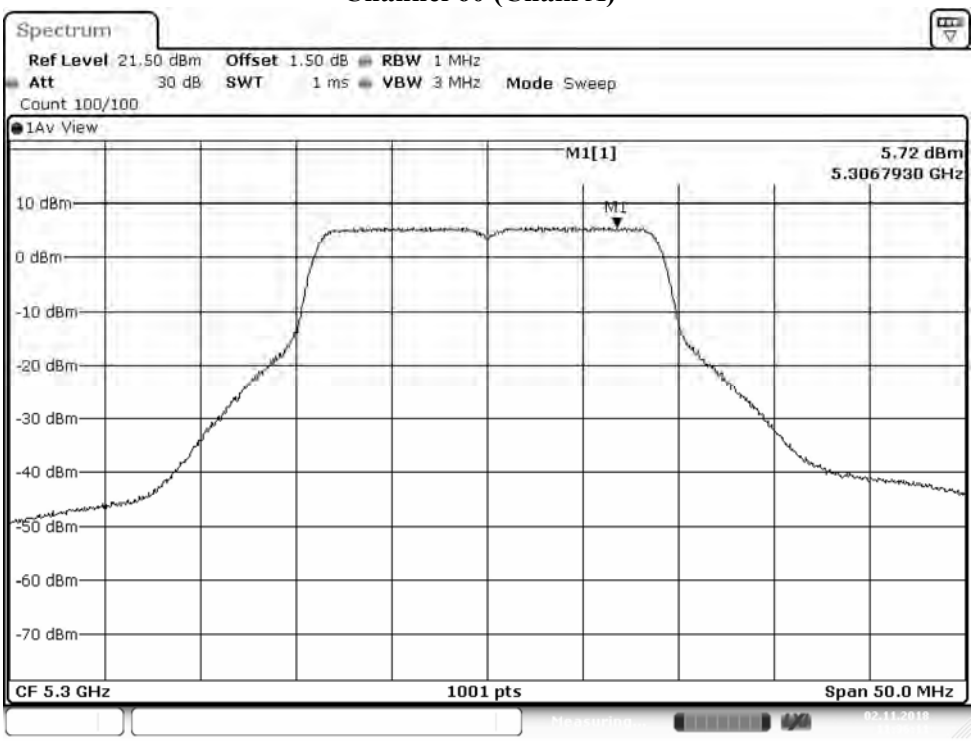


Channel 52 (Chain B)

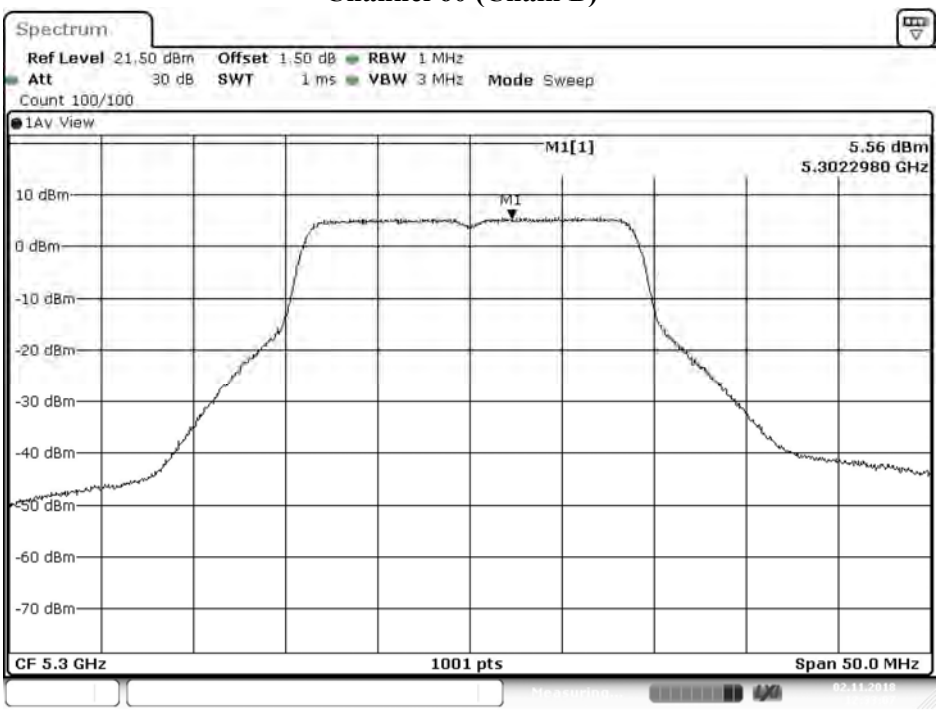


Date: 2.NOV.2018 12:29:18

Channel 60 (Chain A)

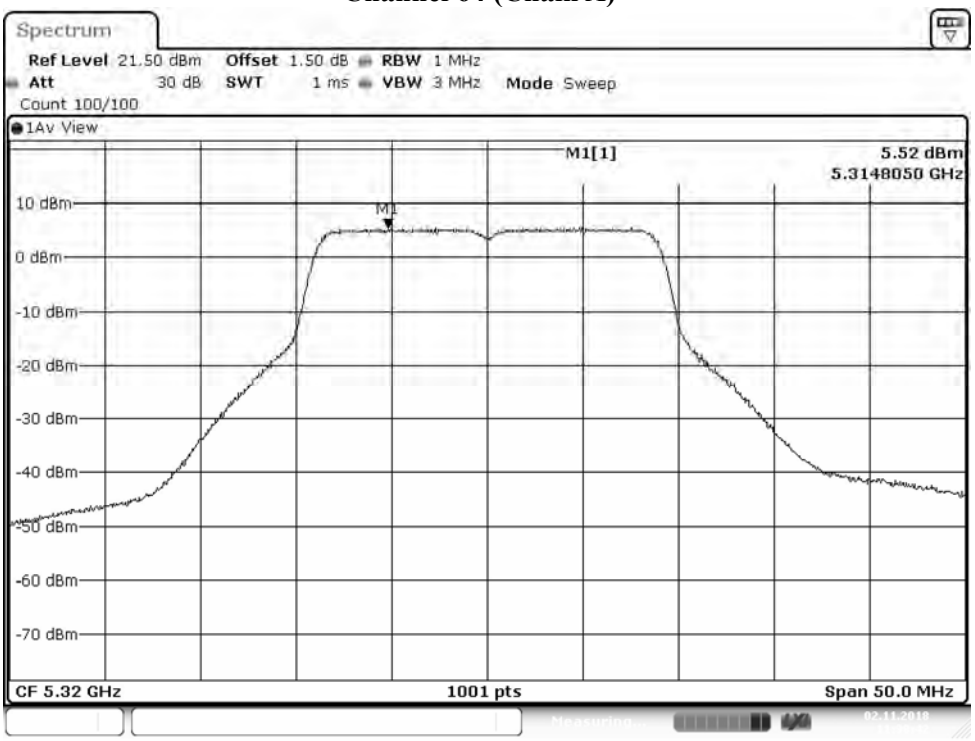


Channel 60 (Chain B)

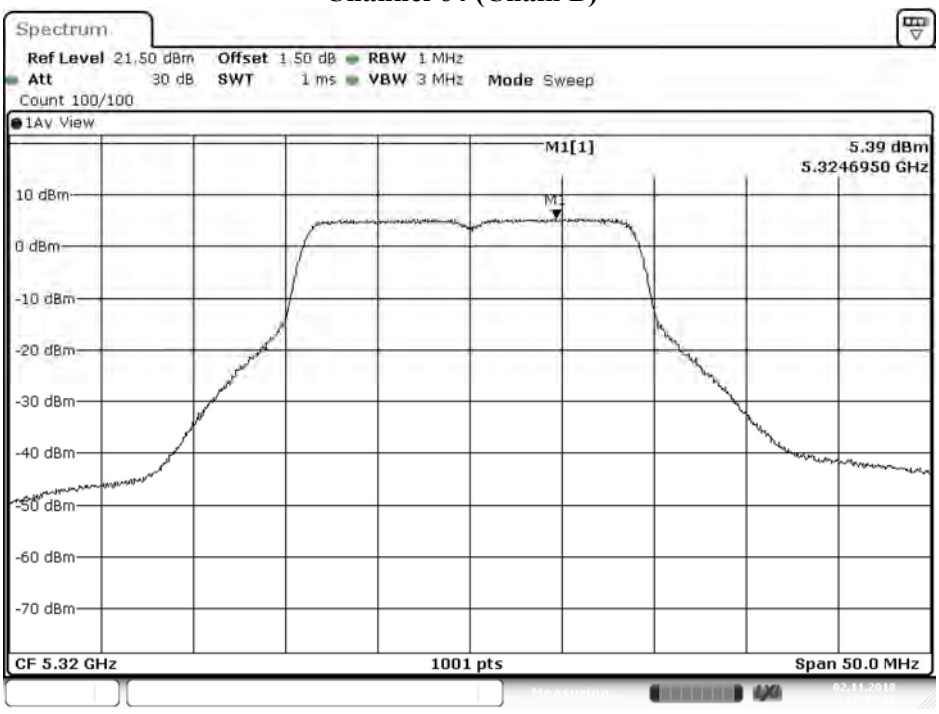


Date: 2.NOV.2018 12:33:07

Channel 64 (Chain A)

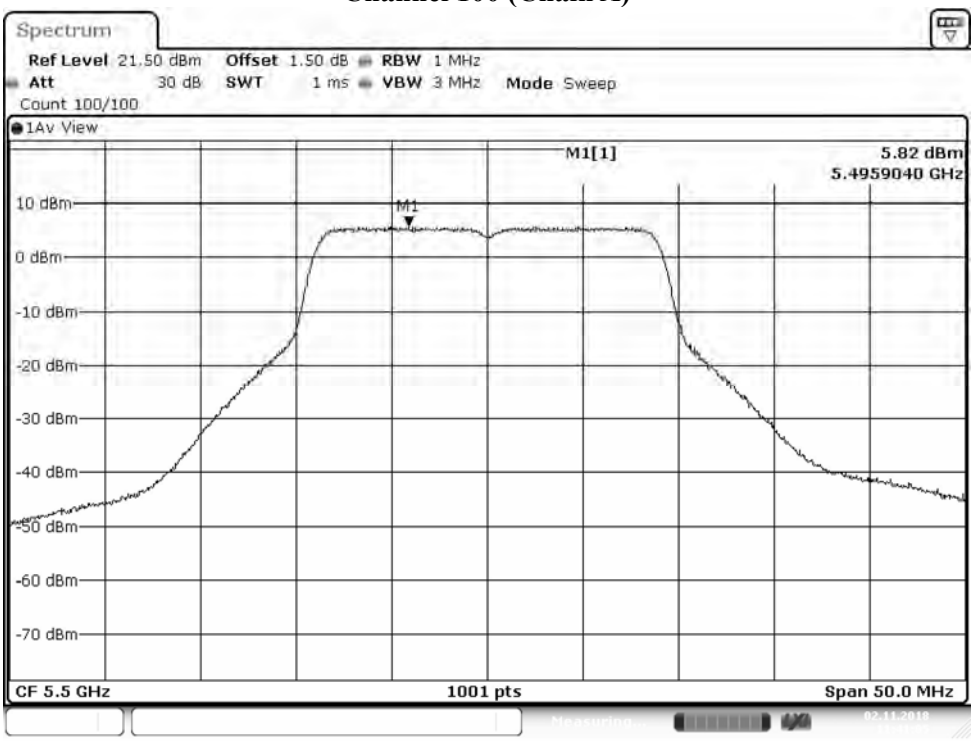


Channel 64 (Chain B)

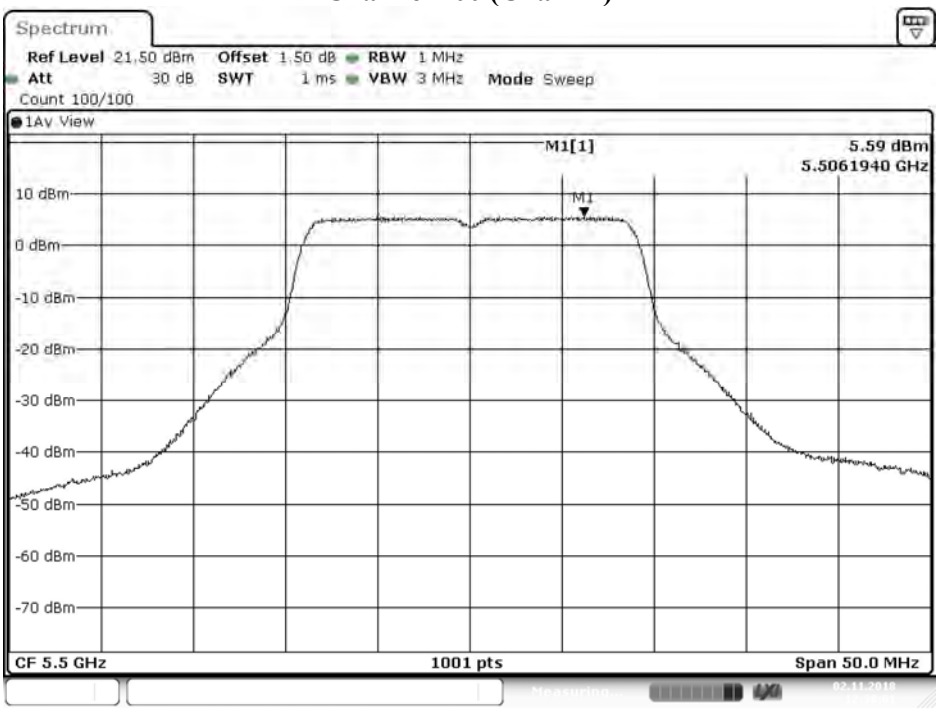


Date: 2.NOV.2018 12:35:39

Channel 100 (Chain A)

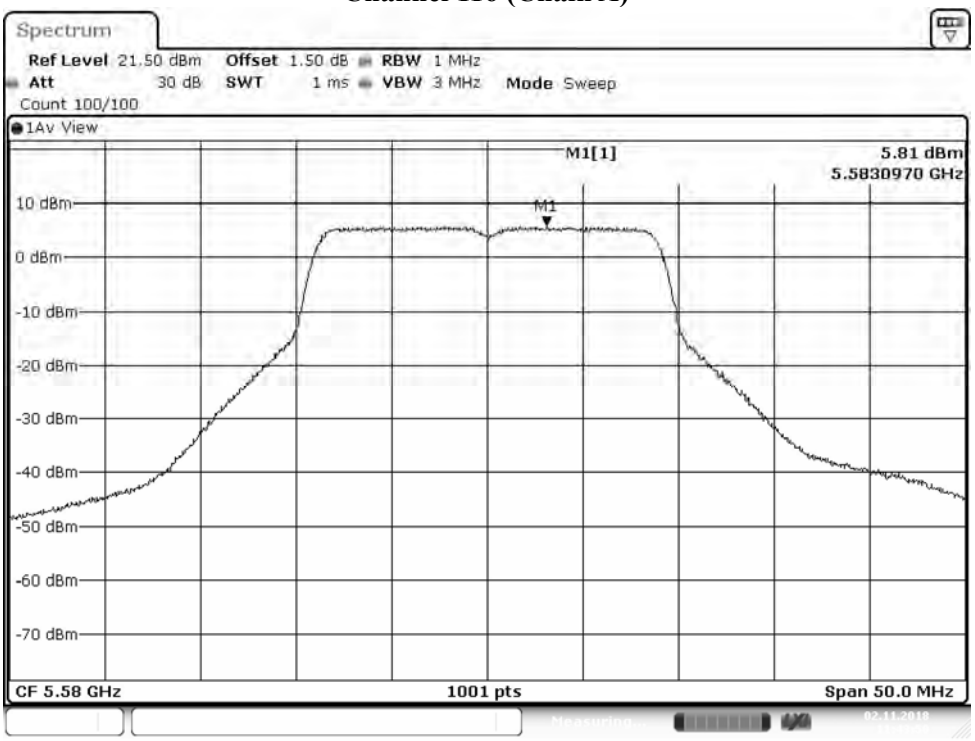


Channel 100 (Chain B)

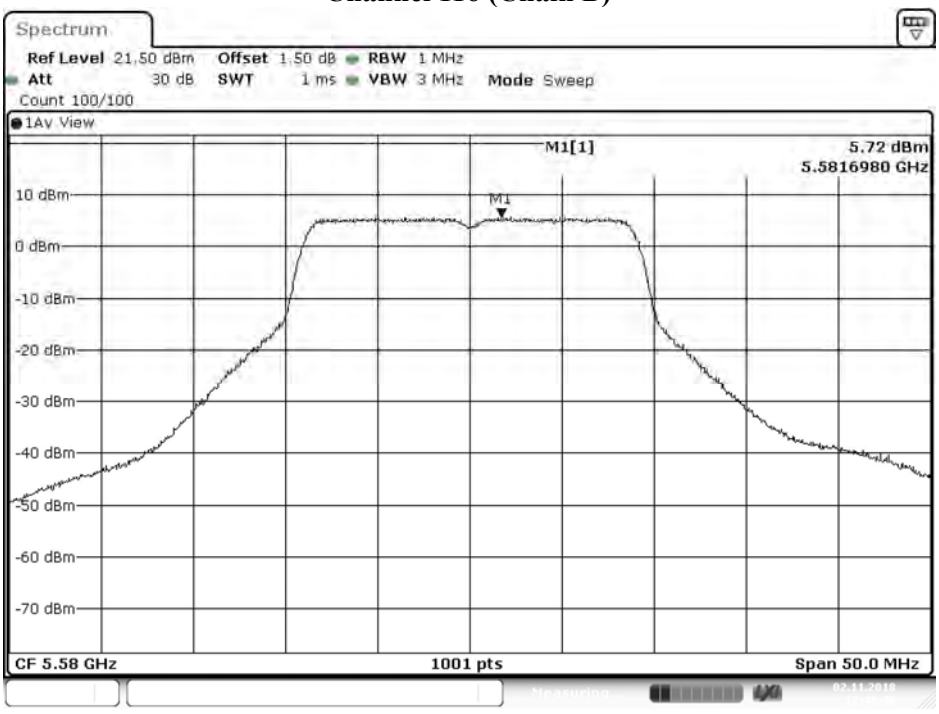


Date: 2.NOV.2018 12:38:02

Channel 116 (Chain A)

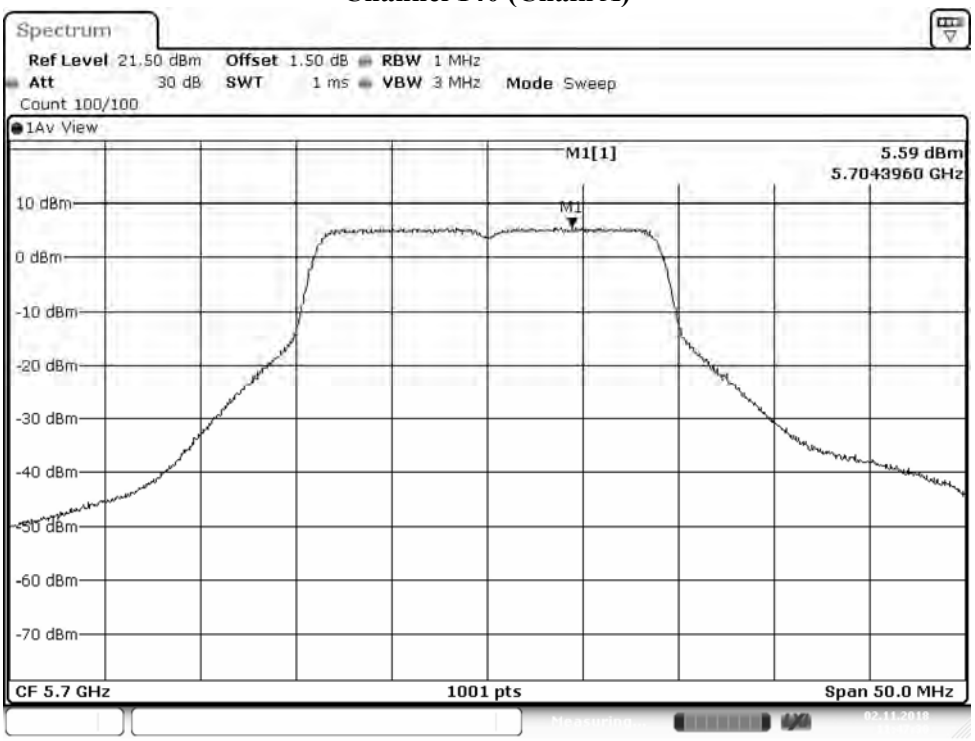


Channel 116 (Chain B)

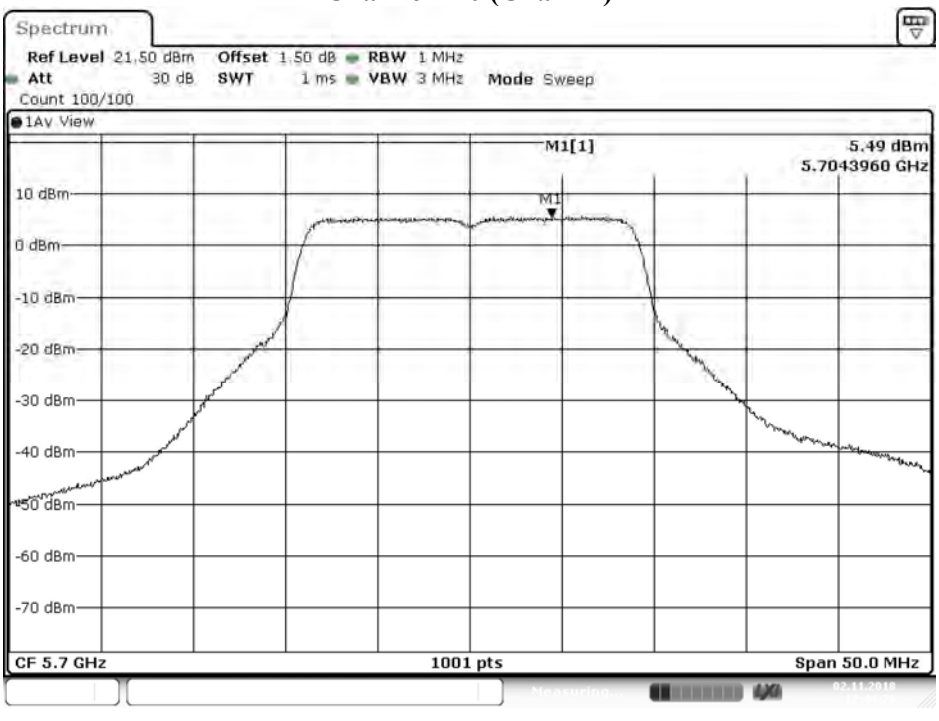


Date: 2.NOV.2018 12:40:47

Channel 140 (Chain A)

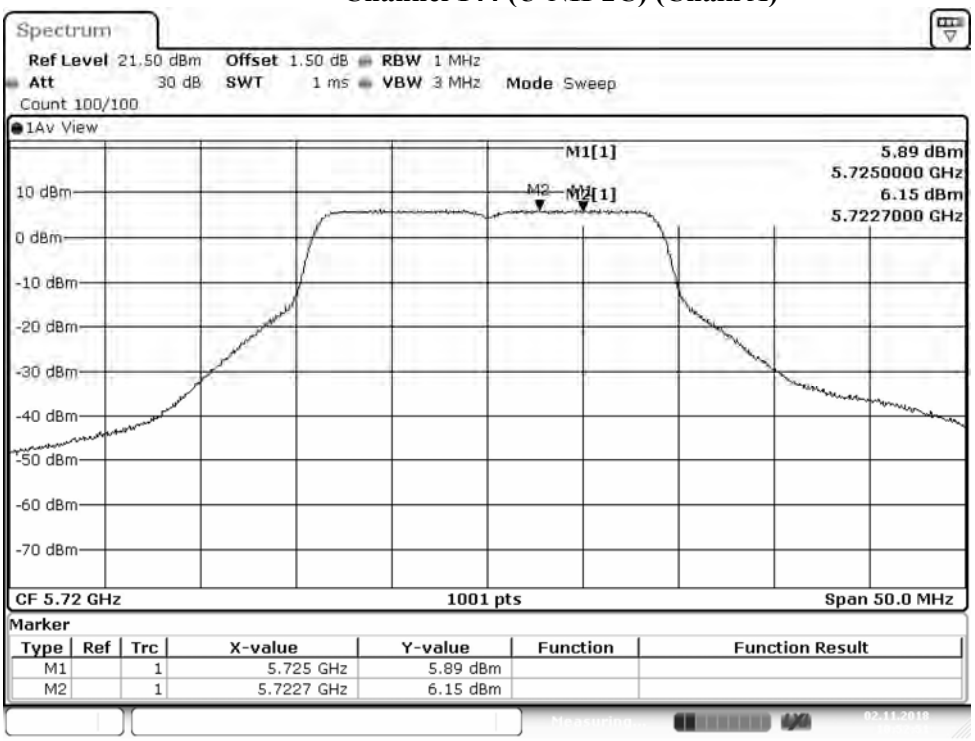


Channel 140 (Chain B)

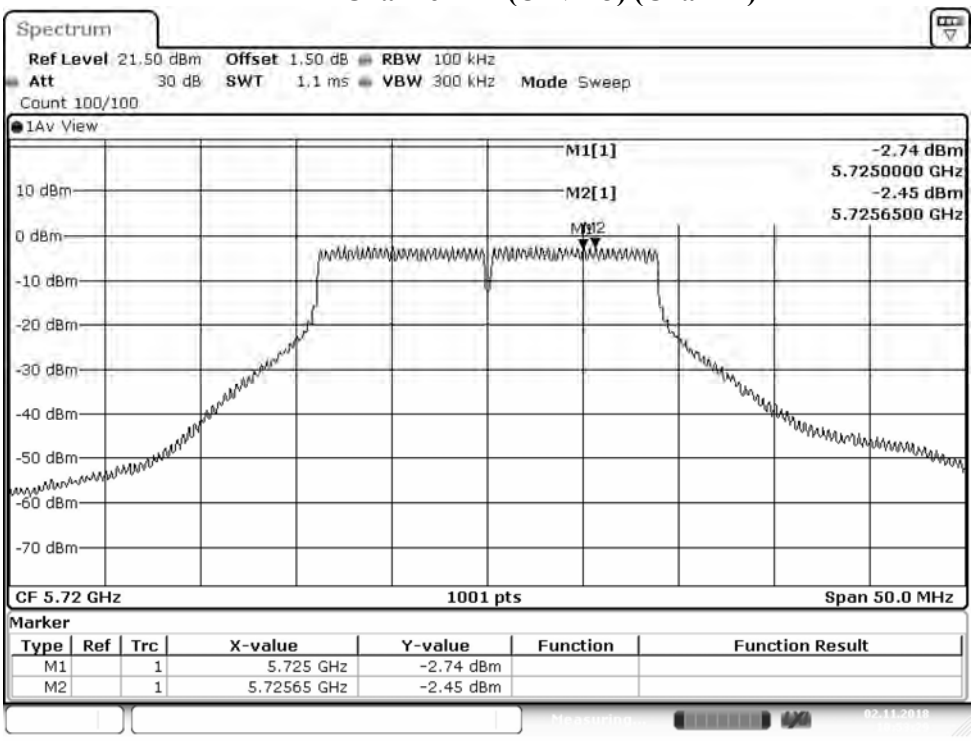


Date: 2.NOV.2018 12:44:26

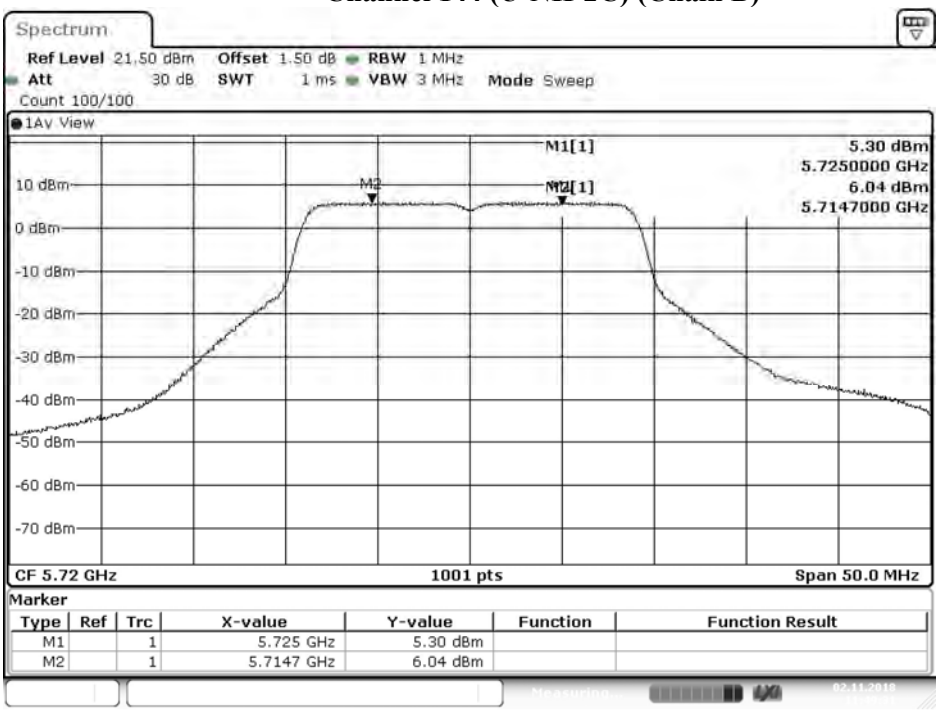
Channel 144 (U-NII-2C) (Chain A)



Channel 144 (U-NII-3) (Chain A)

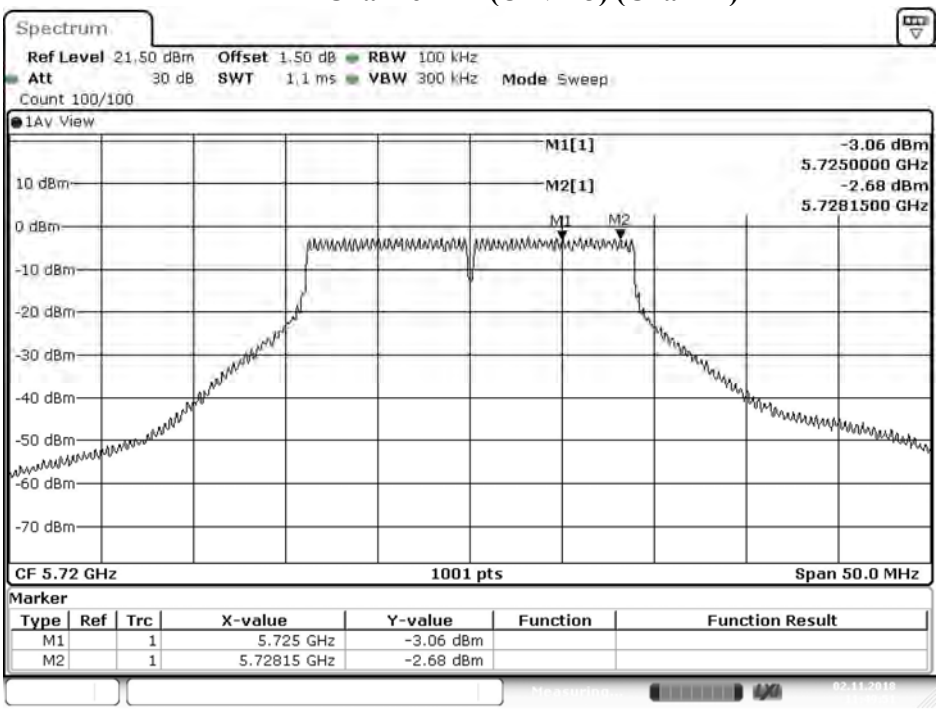


Channel 144 (U-NII-2C) (Chain B)



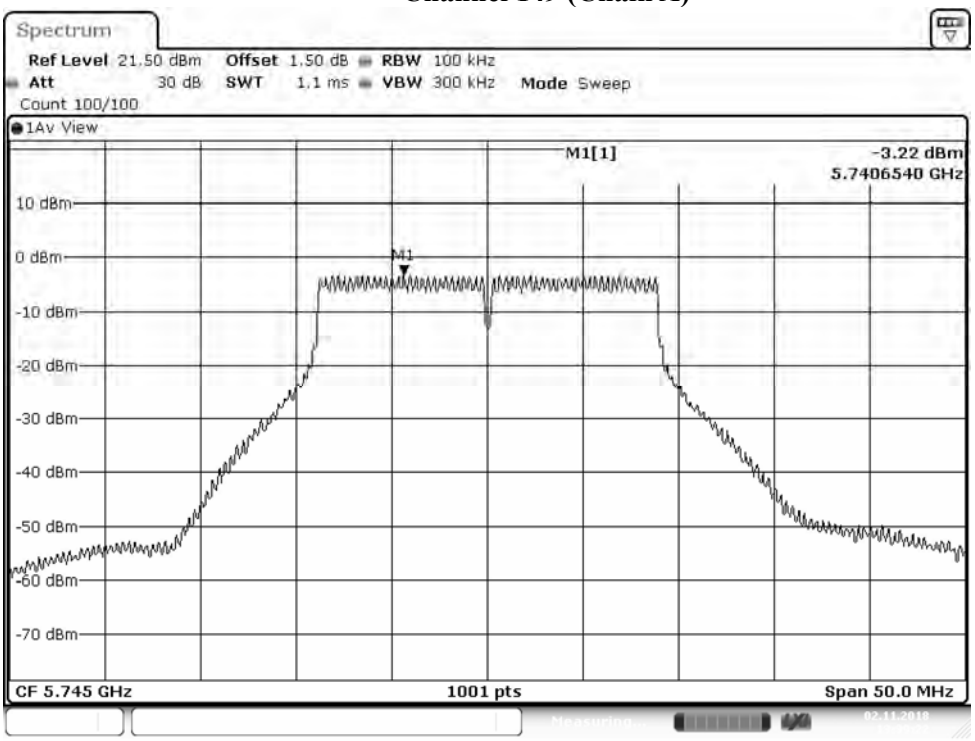
Date: 2.NOV.2018 11:49:31

Channel 144 (U-NII-3) (Chain B)

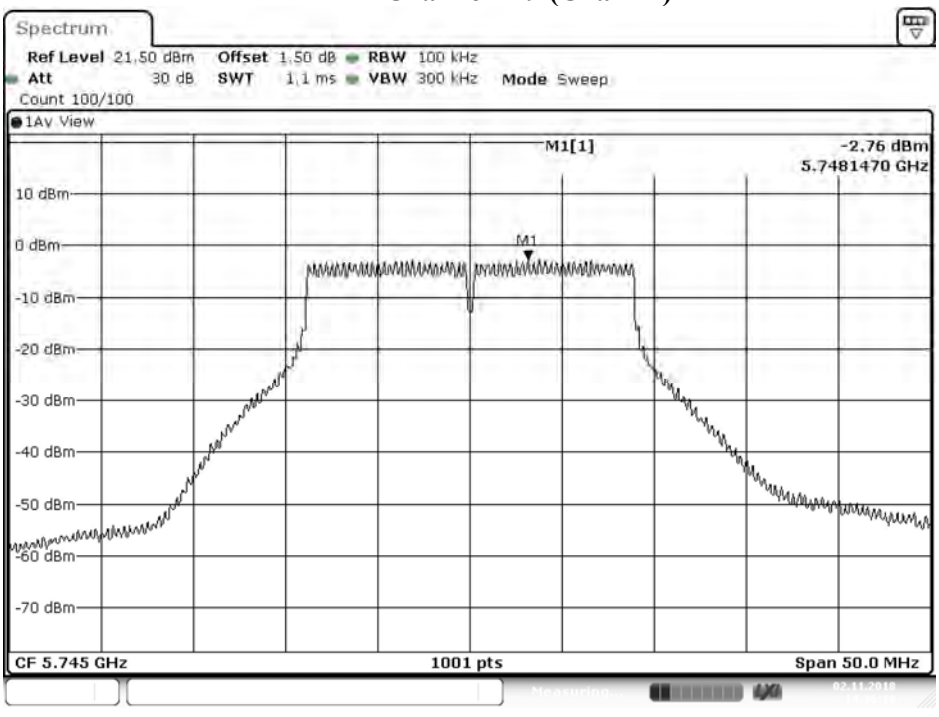


Date: 2.NOV.2018 11:49:51

Channel 149 (Chain A)

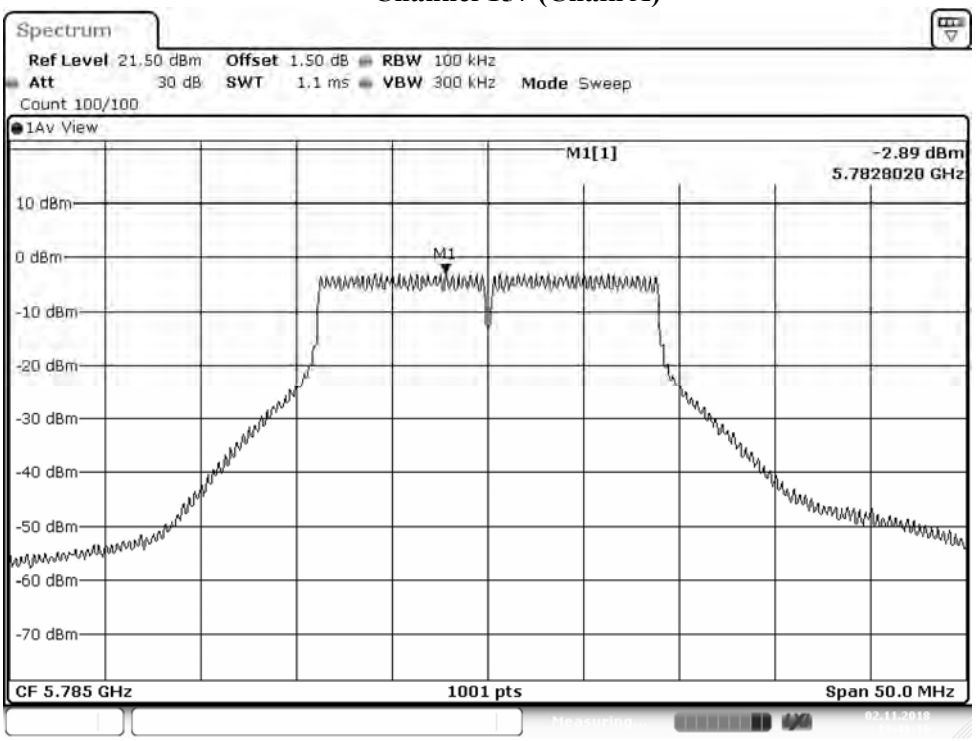


Channel 149 (Chain B)

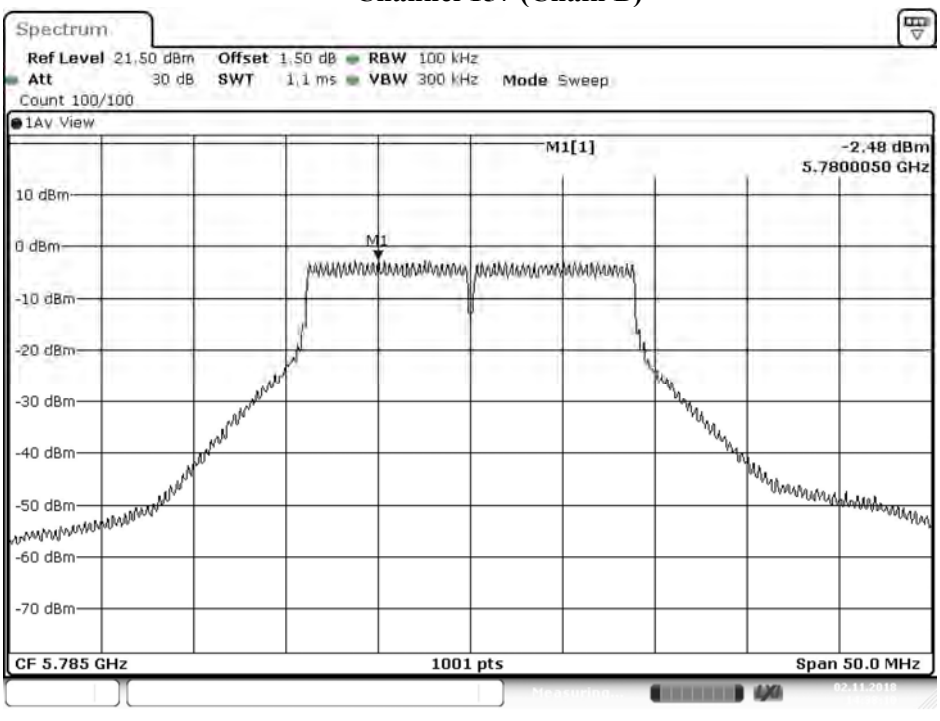


Date: 2.NOV.2018 14:36:18

Channel 157 (Chain A)

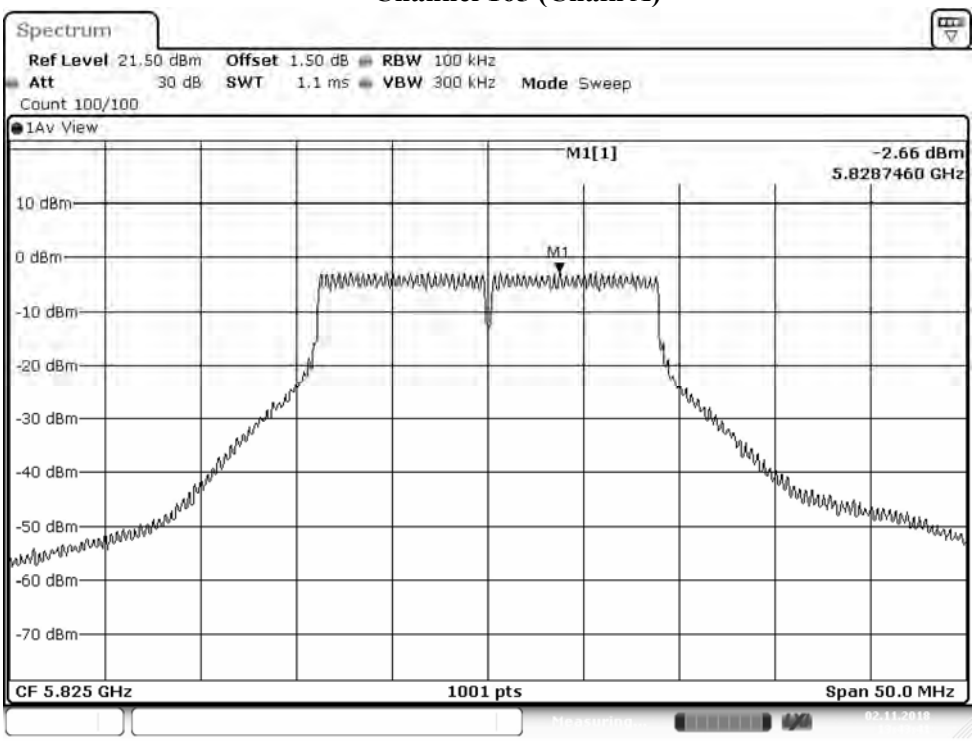


Channel 157 (Chain B)

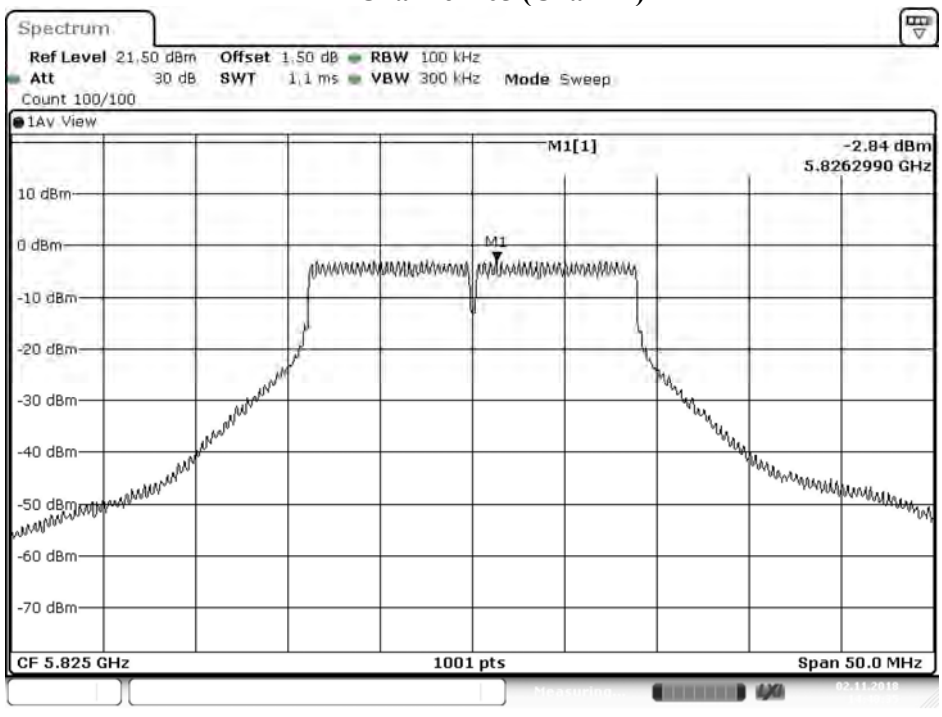


Date: 2.NOV.2018 14:38:11

Channel 165 (Chain A)



Channel 165 (Chain B)



Date: 2.NOV.2018 14:40:36

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL　　測試項目：峰值功率頻譜密度
測試頻道：--　　測試模式：Mode 3: MIMO: 發射器 802.11n-40BW
6 dB 頻寬：1MHz　　視頻頻寬：3MHz
檢 測 器：峰值　　環境溫度：21 ℃
測試日期：107 年 11 月 02 日　　環境濕度：53 %

Channel Number	Frequency (MHz)	Chain (dBm)	PPSD (dBm)	Total PPSD (dBm)	Required Limit (dBm)	Result
38	5190	A	2.99	6.00	<11	Pass
		B	2.74	5.75	<11	Pass
46	5230	A	2.65	5.66	<11	Pass
		B	2.42	5.43	<11	Pass
54	5270	A	2.38	5.39	<11	Pass
		B	2.45	5.46	<11	Pass
62	5310	A	2.47	5.48	<11	Pass
		B	2.40	5.41	<11	Pass
102	5510	A	2.76	5.77	<11	Pass
		B	2.60	5.61	<11	Pass
110	5550	A	2.62	5.63	<11	Pass
		B	2.50	5.51	<11	Pass
134	5670	A	2.54	5.55	<11	Pass
		B	2.54	5.55	<11	Pass

Note:

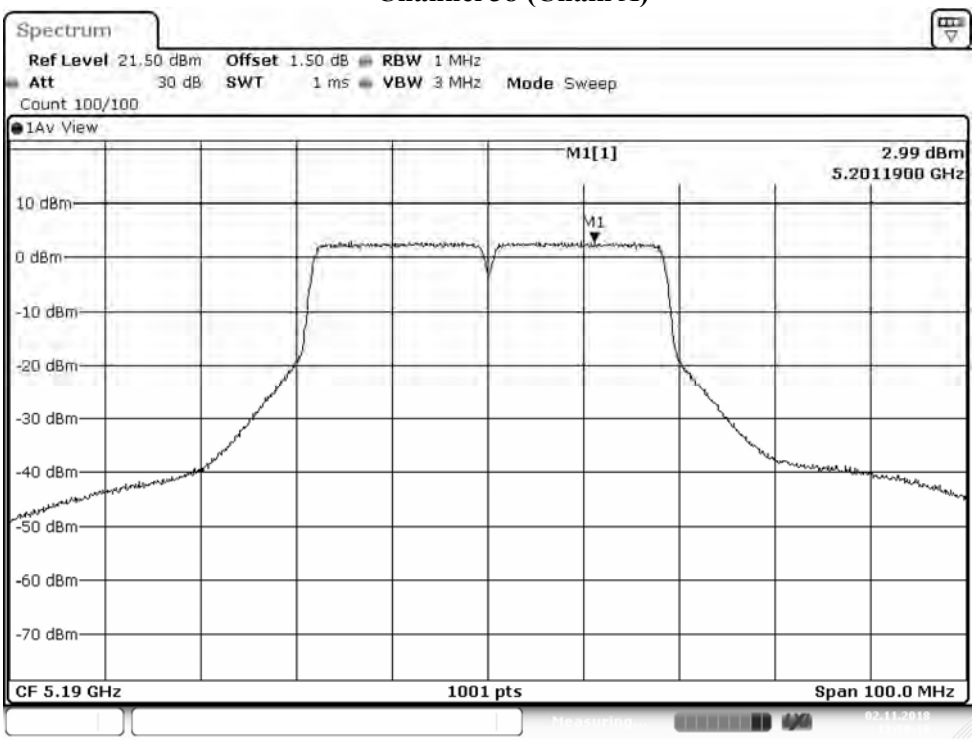
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Channel Number	Frequency (MHz)	Chain (dBm)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
142 (U-NII-2C)	5710	A	3.10	--	6.11	<11	Pass
		B	1.07	--	4.08	<11	Pass
142 (U-NII-3)	5710	A	-5.96	6.98	4.03	<30	Pass
		B	-5.75	6.98	4.24	<30	Pass
151	5755	A	-5.61	6.98	4.38	<30	Pass
		B	-5.61	6.98	4.38	<30	Pass
159	5795	A	-5.72	6.98	4.27	<30	Pass
		B	-5.65	6.98	4.34	<30	Pass

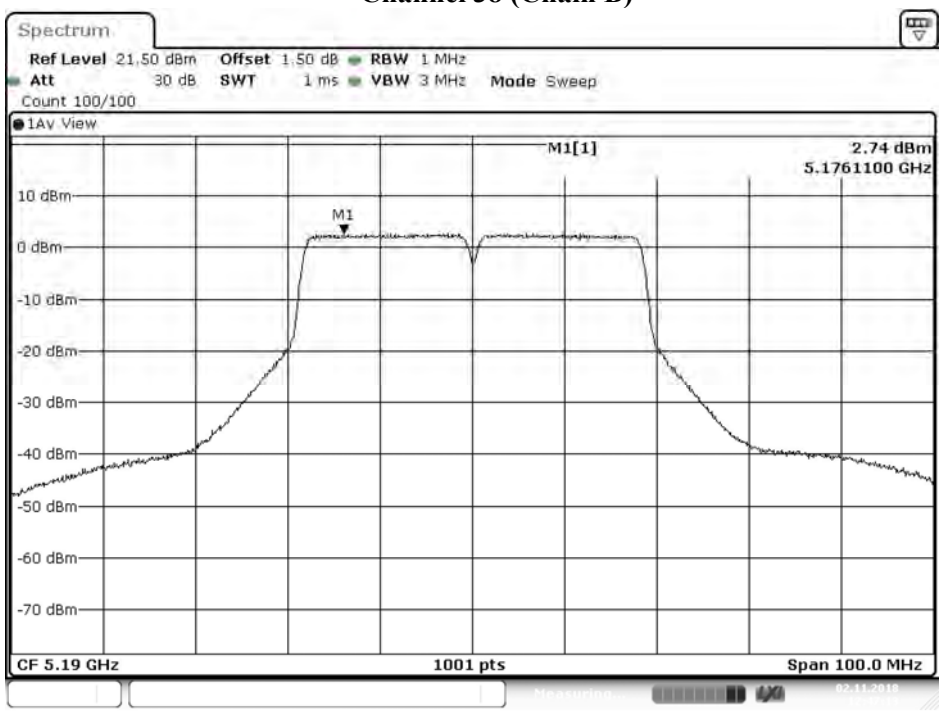
Note:

The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Channel 38 (Chain A)

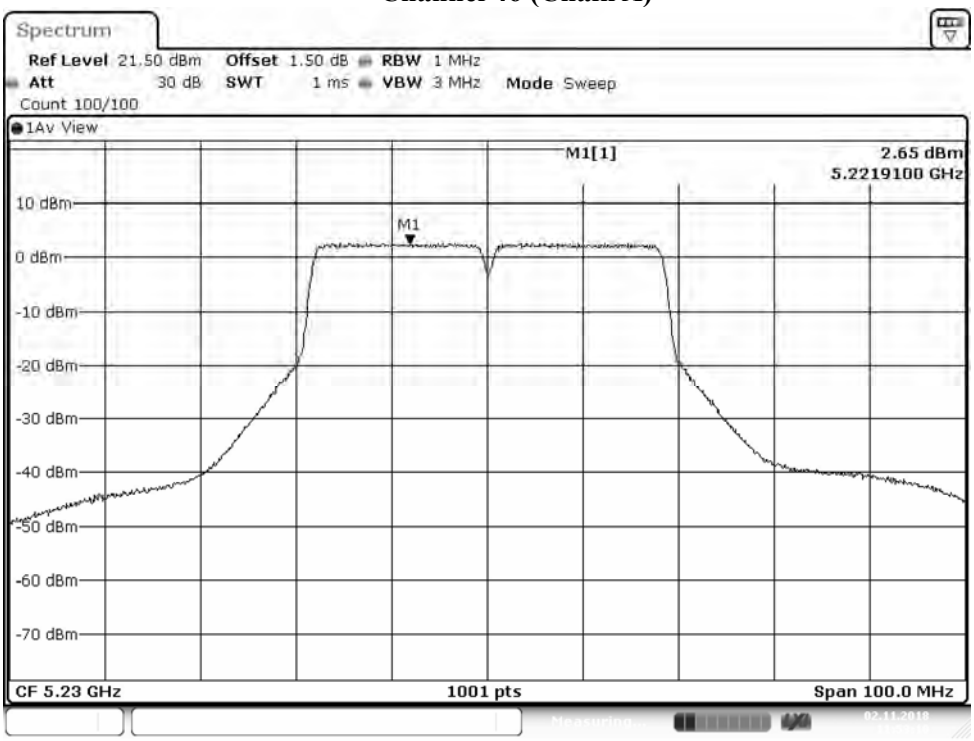


Channel 38 (Chain B)

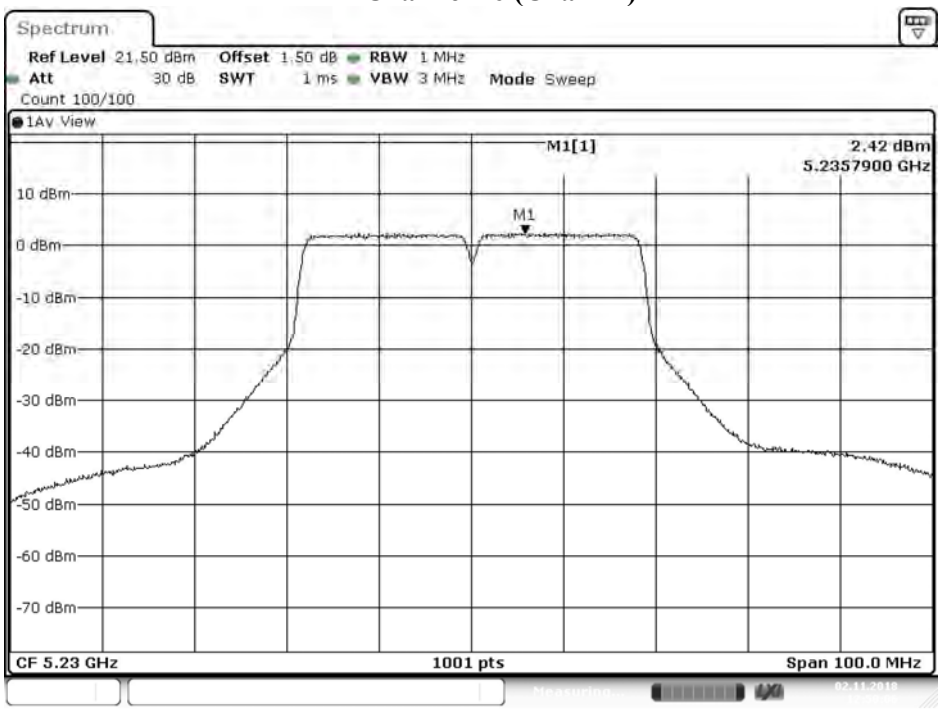


Date: 2.NOV.2018 12:47:13

Channel 46 (Chain A)

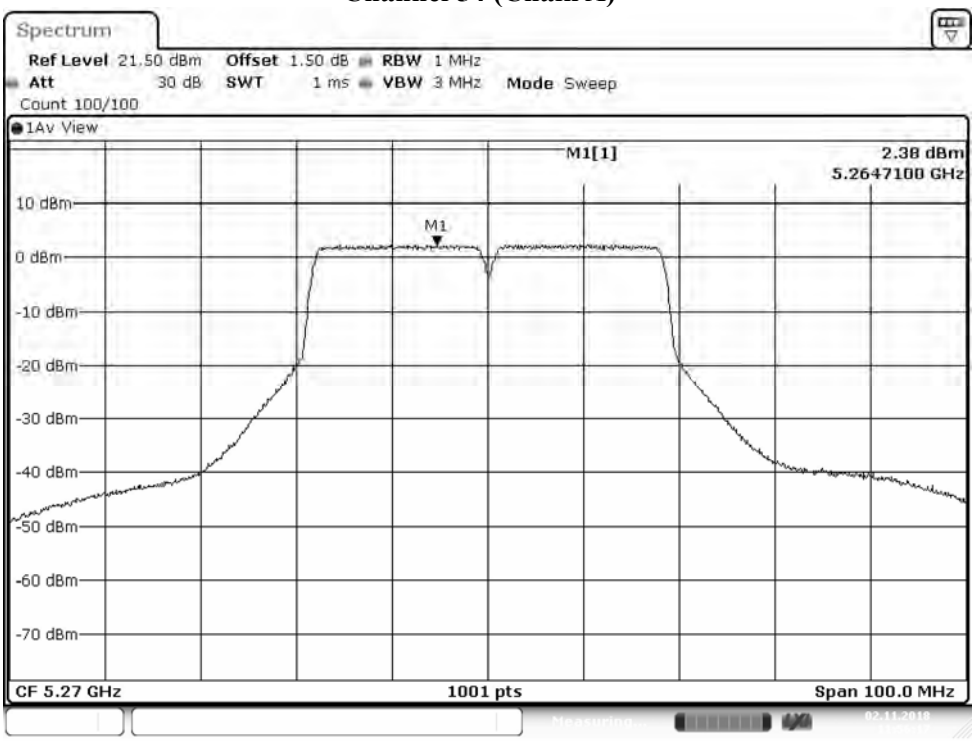


Channel 46 (Chain B)

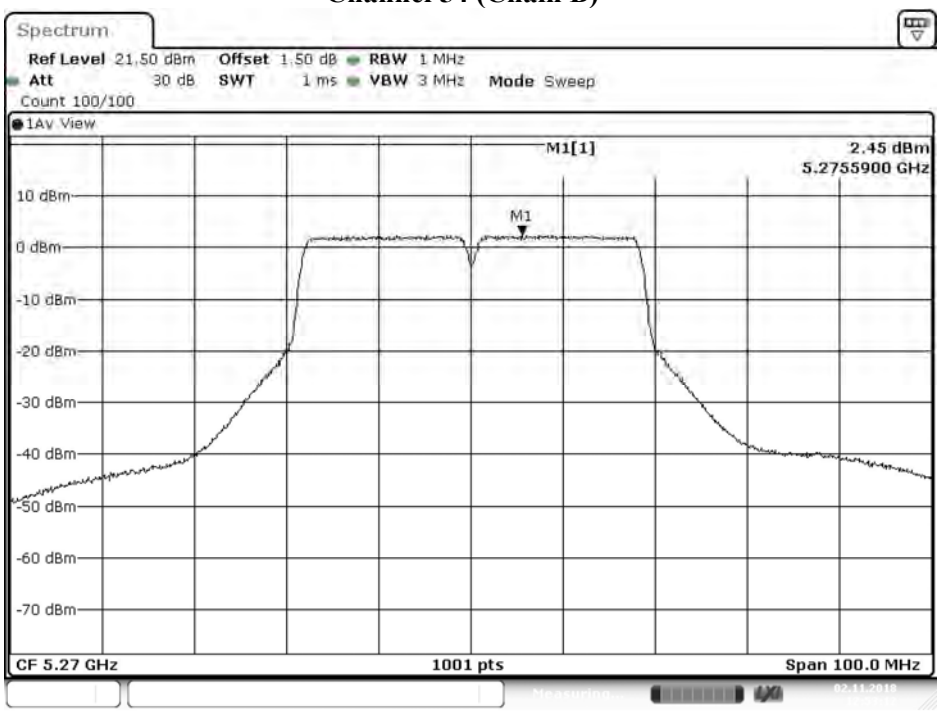


Date: 2.NOV.2018 12:50:06

Channel 54 (Chain A)

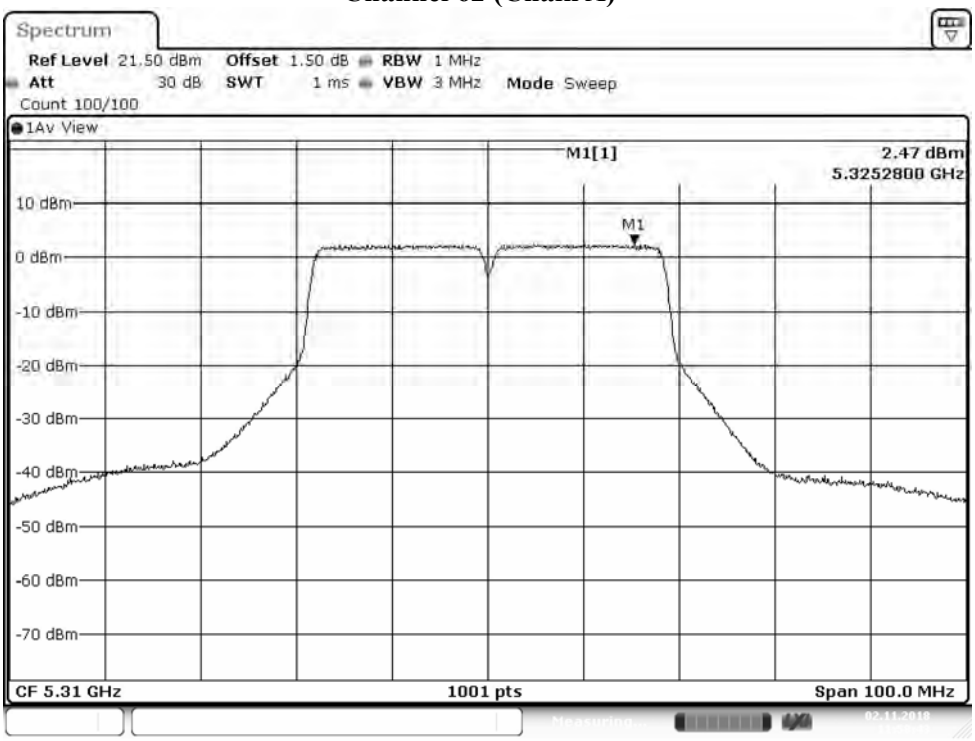


Channel 54 (Chain B)

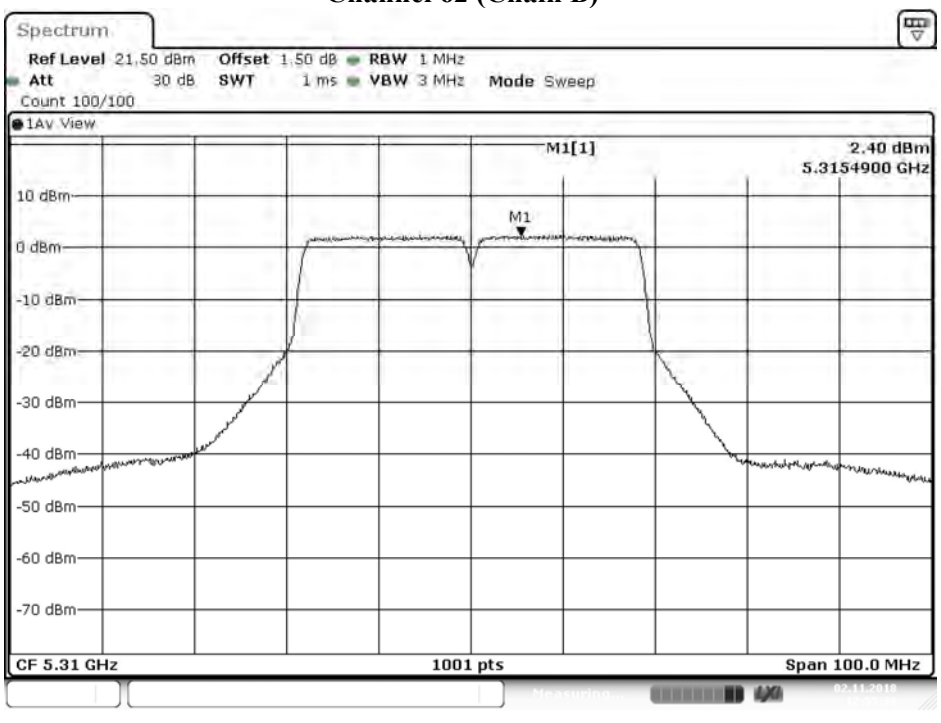


Date: 2.NOV.2018 12:53:13

Channel 62 (Chain A)

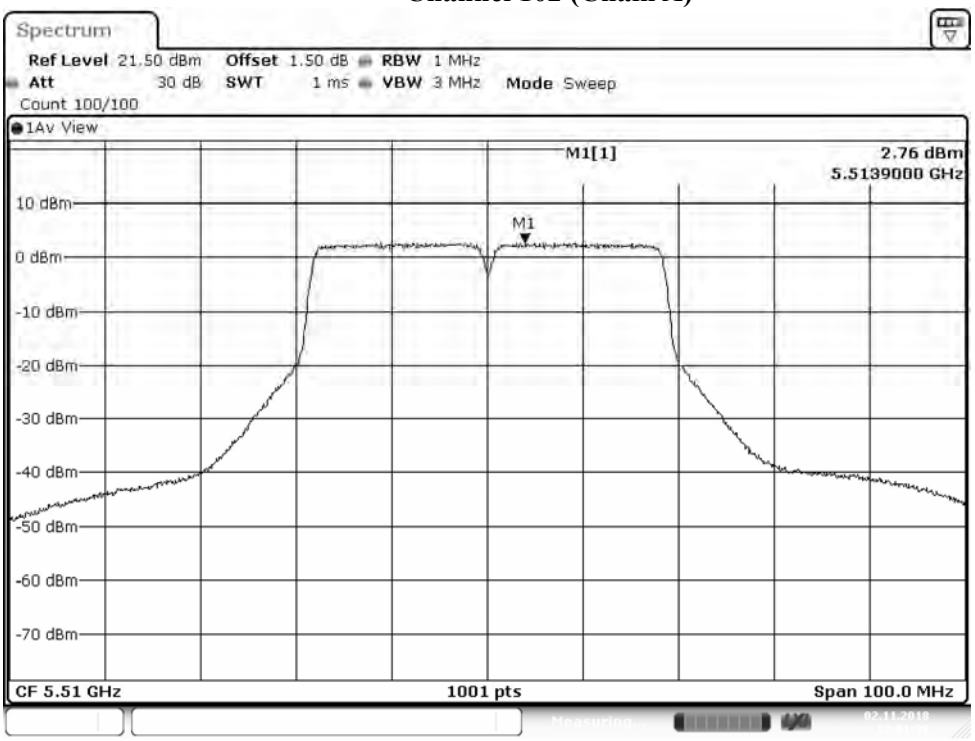


Channel 62 (Chain B)

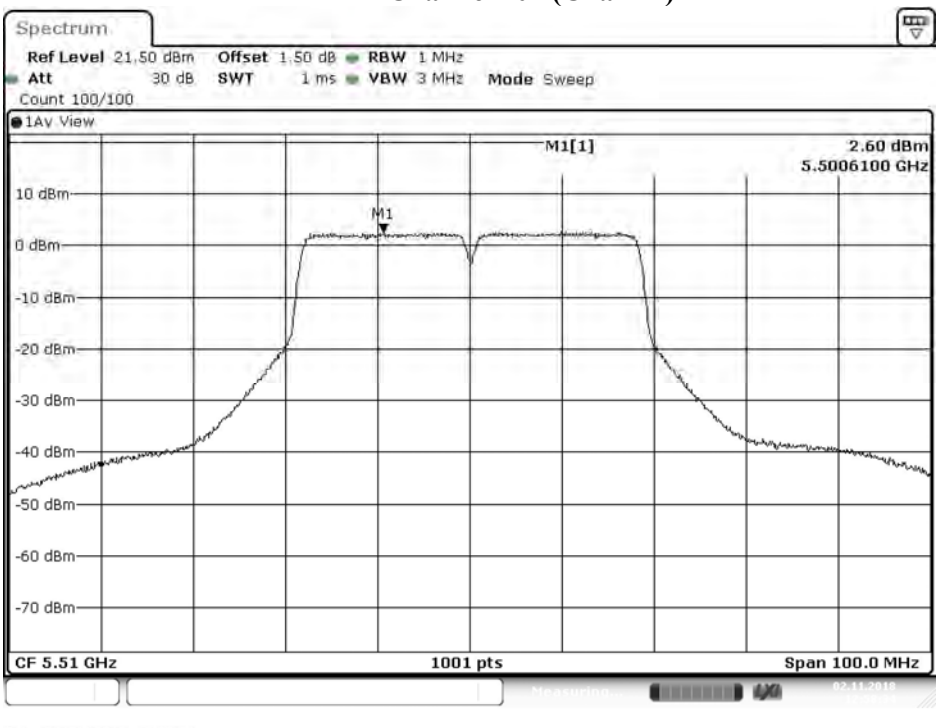


Date: 2.NOV.2018 12:55:39

Channel 102 (Chain A)



Channel 102 (Chain B)



Date: 2.NOV.2018 12:58:34