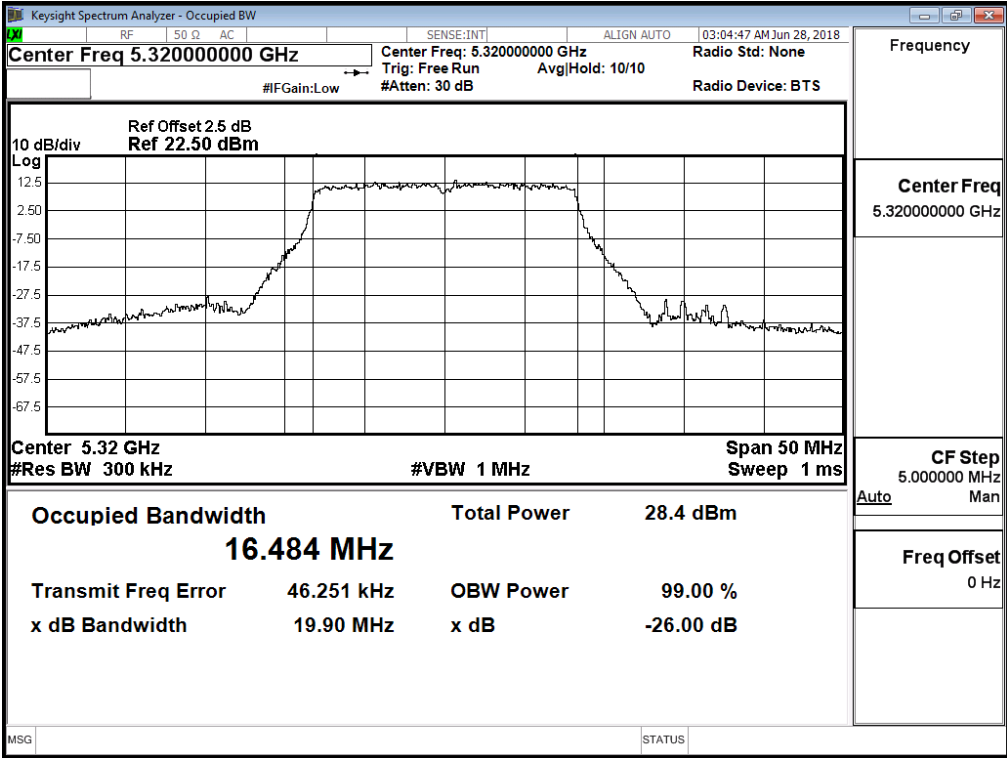
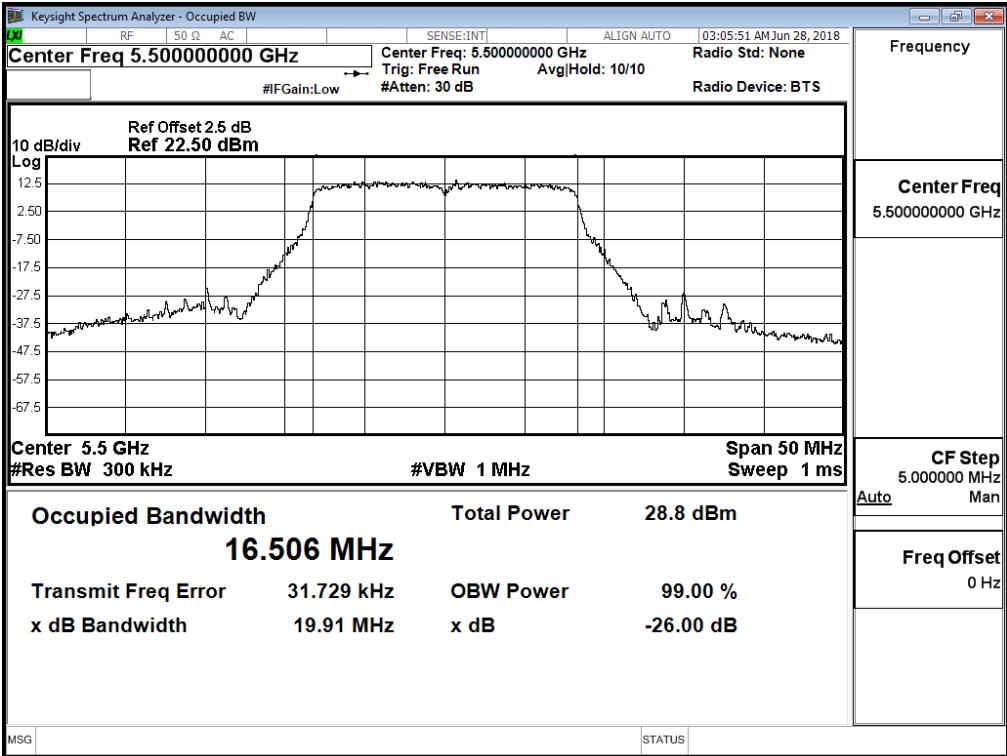


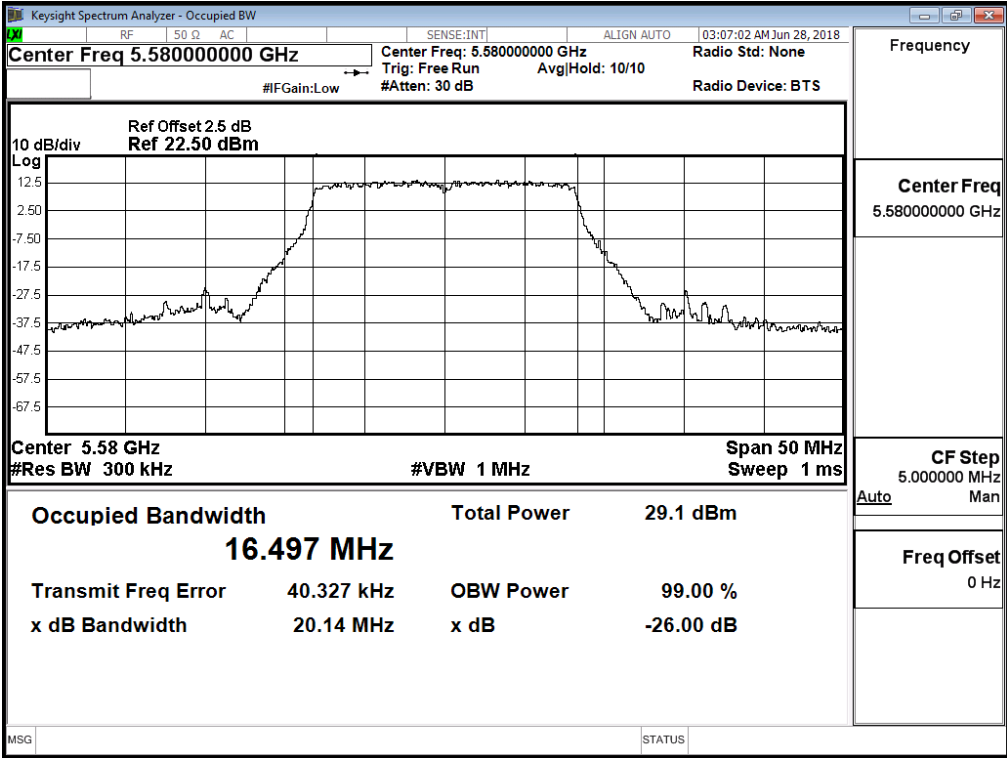
Channel 64:



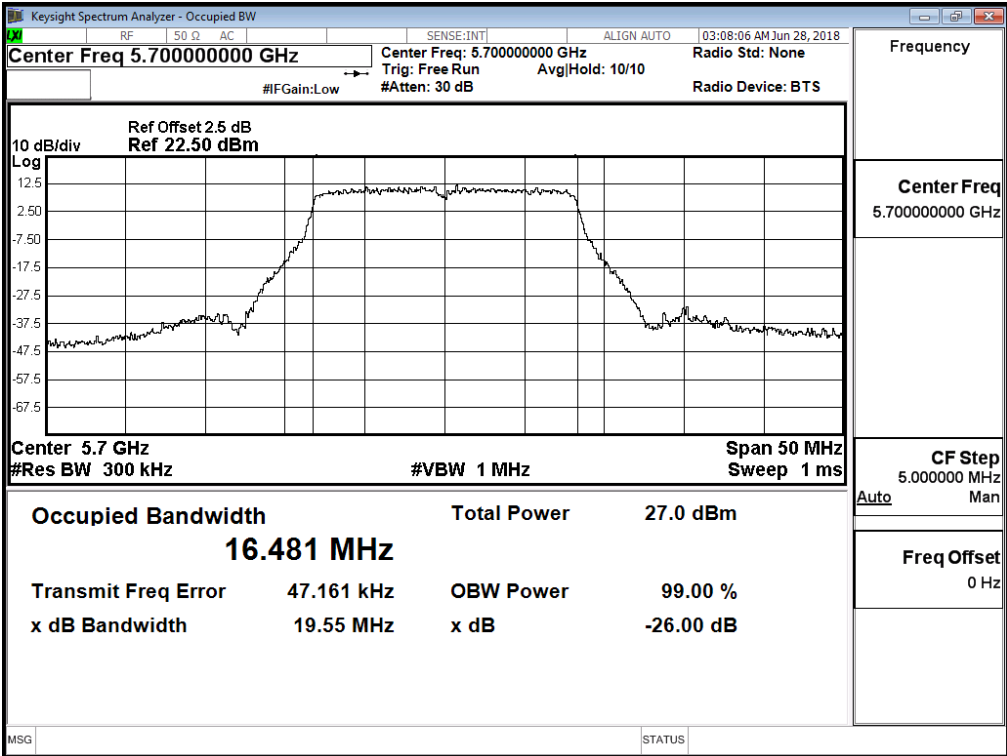
Channel 100:



Channel 116:



Channel 140:



Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.7)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		28.8	57.6	86.8	115.6	173.2	231.2	260	288.8	
		Measurement Level (dBm)								
36	5180	14.57	--	--	--	--	--	--	--	<24dBm
44	5220	14.94	14.85	14.8	14.73	14.68	14.61	14.51	14.45	<24dBm
48	5240	13.56	--	--	--	--	--	--	--	<24dBm
52	5260	15.15	--	--	--	--	--	--	--	<24dBm
60	5300	14.97	14.88	14.81	14.74	14.65	14.56	14.47	14.39	<24dBm
64	5320	15.21	--	--	--	--	--	--	--	<24dBm
100	5500	15.3	--	--	--	--	--	--	--	<24dBm
116	5580	14.86	14.81	14.74	14.67	14.57	14.49	14.41	14.31	<24dBm
140	5700	13.36	--	--	--	--	--	--	--	<24dBm
149	5745	18.6	--	--	--	--	--	--	--	<30dBm
157	5785	18.3	18.21	18.14	18.08	17.98	17.88	17.81	17.72	<30dBm
165	5825	18.52	--	--	--	--	--	--	--	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		28.8	57.6	86.8	115.6	173.2	231.2	260	288.8	
		Measurement Level (dBm)								
36	5180	14.53	--	--	--	--	--	--	--	<24dBm
44	5220	14.85	14.78	14.72	14.66	14.6	14.54	14.49	14.43	<24dBm
48	5240	15.17	--	--	--	--	--	--	--	<24dBm
52	5260	14.72	--	--	--	--	--	--	--	<24dBm
60	5300	15.24	15.17	15.07	15.02	14.92	14.85	14.79	14.7	<24dBm
64	5320	15.61	--	--	--	--	--	--	--	<24dBm
100	5500	15.28	--	--	--	--	--	--	--	<24dBm
116	5580	14.45	14.37	14.3	14.23	14.14	14.07	13.99	13.9	<24dBm
140	5700	13.74	--	--	--	--	--	--	--	<24dBm
149	5745	20.35	--	--	--	--	--	--	--	<30dBm
157	5785	20.17	20.11	20.03	19.96	19.87	19.77	19.7	19.62	<30dBm
165	5825	19.91	--	--	--	--	--	--	--	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		28.8	57.6	86.8	115.6	173.2	231.2	260	288.8	
		Measurement Level (dBm)								
36	5180	14.6	--	--	--	--	--	--	--	<24dBm
44	5220	14.93	14.84	14.79	14.71	14.61	14.55	14.45	14.4	<24dBm
48	5240	15.64	--	--	--	--	--	--	--	<24dBm
52	5260	14.64	--	--	--	--	--	--	--	<24dBm
60	5300	14.74	14.67	14.61	14.51	14.46	14.39	14.34	14.25	<24dBm
64	5320	15.32	--	--	--	--	--	--	--	<24dBm
100	5500	14.2	--	--	--	--	--	--	--	<24dBm
116	5580	14.07	13.99	13.92	13.84	13.77	13.72	13.62	13.55	<24dBm
140	5700	13.68	--	--	--	--	--	--	--	<24dBm
149	5745	19.85	--	--	--	--	--	--	--	<30dBm
157	5785	19.98	19.88	19.8	19.74	19.64	19.55	19.47	19.4	<30dBm
165	5825	19.81	--	--	--	--	--	--	--	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		28.8	57.6	86.8	115.6	173.2	231.2	260	288.8	
		Measurement Level (dBm)								
36	5180	13.93	--	--	--	--	--	--	--	<24dBm
44	5220	14.44	14.36	14.27	14.21	14.15	14.1	14.05	13.95	<24dBm
48	5240	14.98	--	--	--	--	--	--	--	<24dBm
52	5260	14.27	--	--	--	--	--	--	--	<24dBm
60	5300	14.28	14.19	14.13	14.08	13.99	13.94	13.88	13.8	<24dBm
64	5320	14.85	--	--	--	--	--	--	--	<24dBm
100	5500	15.24	--	--	--	--	--	--	--	<24dBm
116	5580	15.29	15.23	15.18	15.09	15.02	14.93	14.87	14.77	<24dBm
140	5700	14.96	--	--	--	--	--	--	--	<24dBm
149	5745	19.35	--	--	--	--	--	--	--	<30dBm
157	5785	19.88	19.8	19.72	19.65	19.58	19.52	19.43	19.34	<30dBm
165	5825	19.68	--	--	--	--	--	--	--	<30dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit		Result
								(dBm)	dBm+10log(BW)	
36	5180	--	14.57	14.53	14.60	13.93	20.44	24	--	Pass
44	5220	--	14.94	14.85	14.93	14.44	20.82	24	--	Pass
48	5240	--	13.56	15.17	15.64	14.98	20.92	24	--	Pass
52	5260	17.897	15.15	14.72	14.64	14.27	20.73	24	23.53	Pass
60	5300	17.877	14.97	15.24	14.74	14.28	20.84	24	23.52	Pass
64	5320	17.891	15.21	15.61	15.32	14.85	21.28	24	23.53	Pass
100	5500	17.887	15.30	15.28	14.20	15.24	21.05	24	23.53	Pass
116	5580	17.905	14.86	14.45	14.07	15.29	20.71	24	23.53	Pass
140	5700	17.917	13.36	13.74	13.68	14.96	20.00	24	23.53	Pass
149	5745	--	18.60	20.35	19.85	19.35	25.61	30	--	Pass
157	5785	--	18.30	20.17	19.98	19.88	25.66	30	--	Pass
165	5825	--	18.52	19.91	19.81	19.68	25.54	30	--	Pass

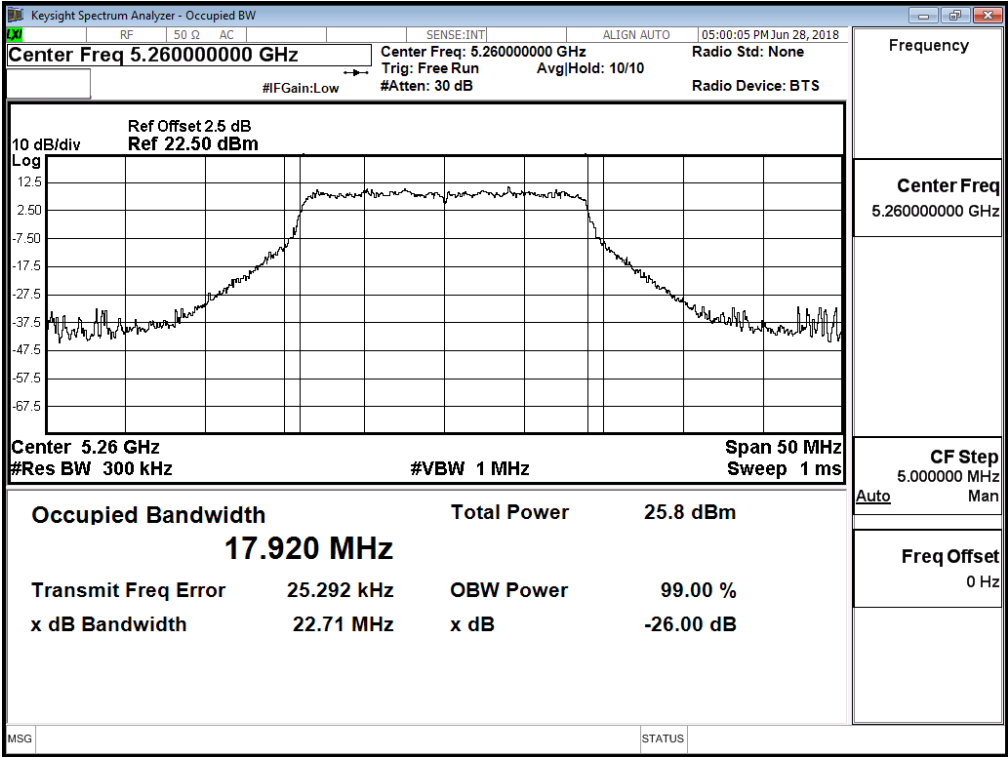
Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))
2. 26 dB Bandwidth is the bandwidth of chain A, chain B, chain C or chain D whichever is less bandwidth, output power limitation is more stringent.

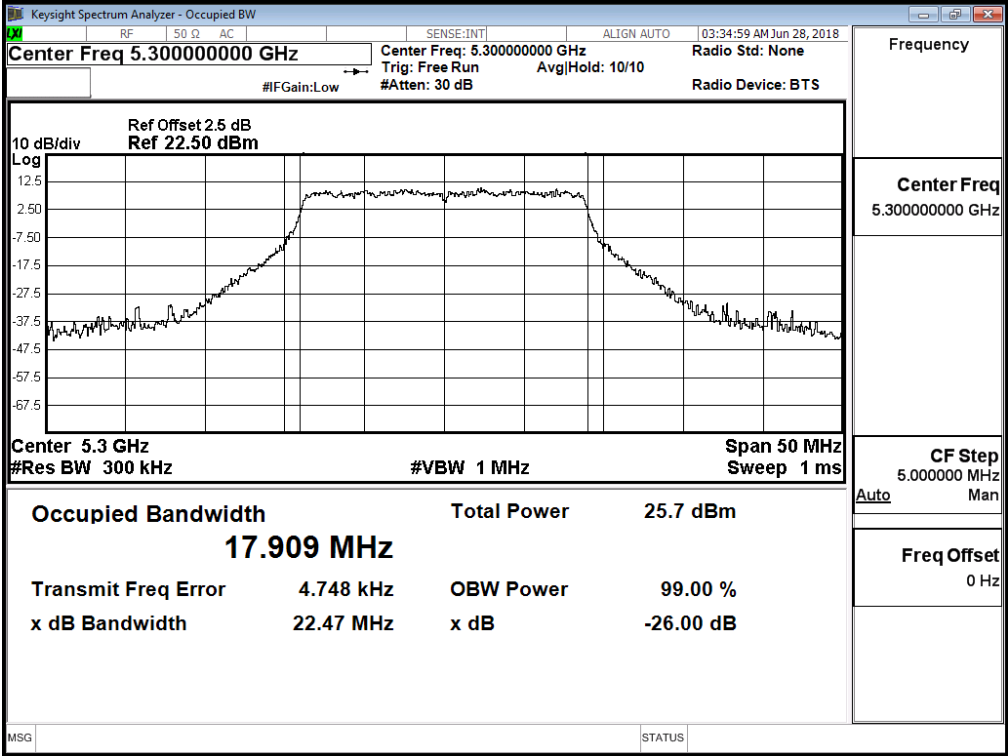
**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	8.93	8.54	8.42	8.05	14.52	Pass
60	5300	8.58	8.95	8.41	8.10	14.54	Pass
64	5320	9.03	9.22	9.14	8.52	15.01	Pass
100	5500	9.02	9.00	7.92	8.85	14.74	Pass
116	5580	8.74	8.29	7.88	9.14	14.56	Pass
140	5700	7.18	7.40	7.34	8.74	13.73	Pass

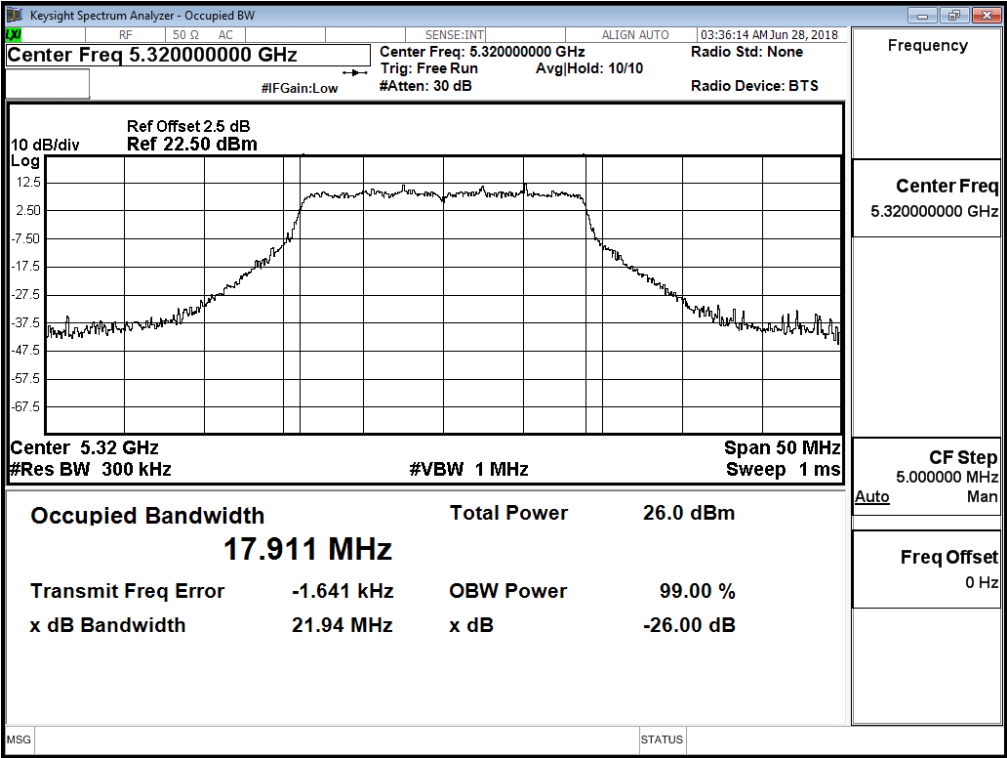
99% Bandwidth:
Channel 52 -Chain A



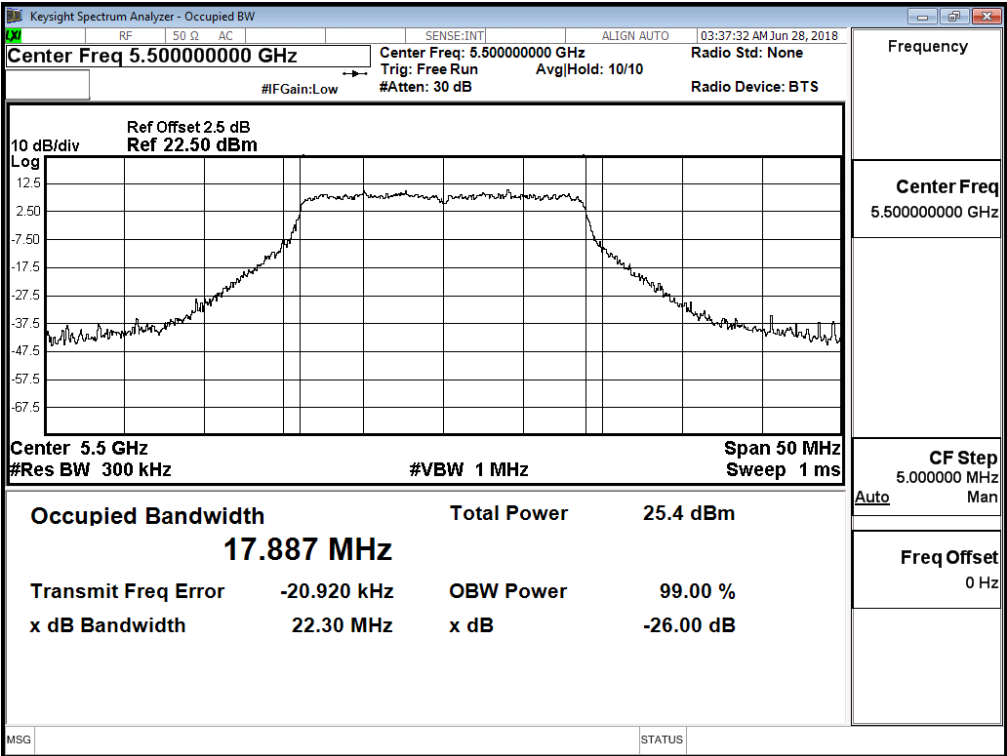
Channel 60 -Chain A



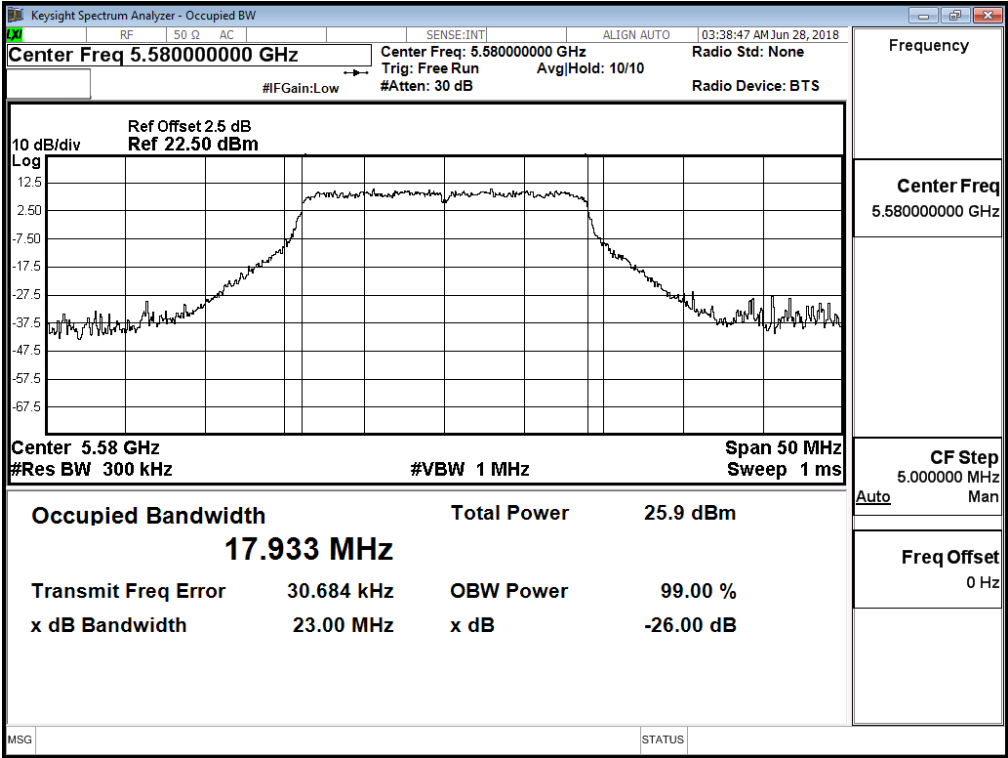
Channel 64 -Chain A



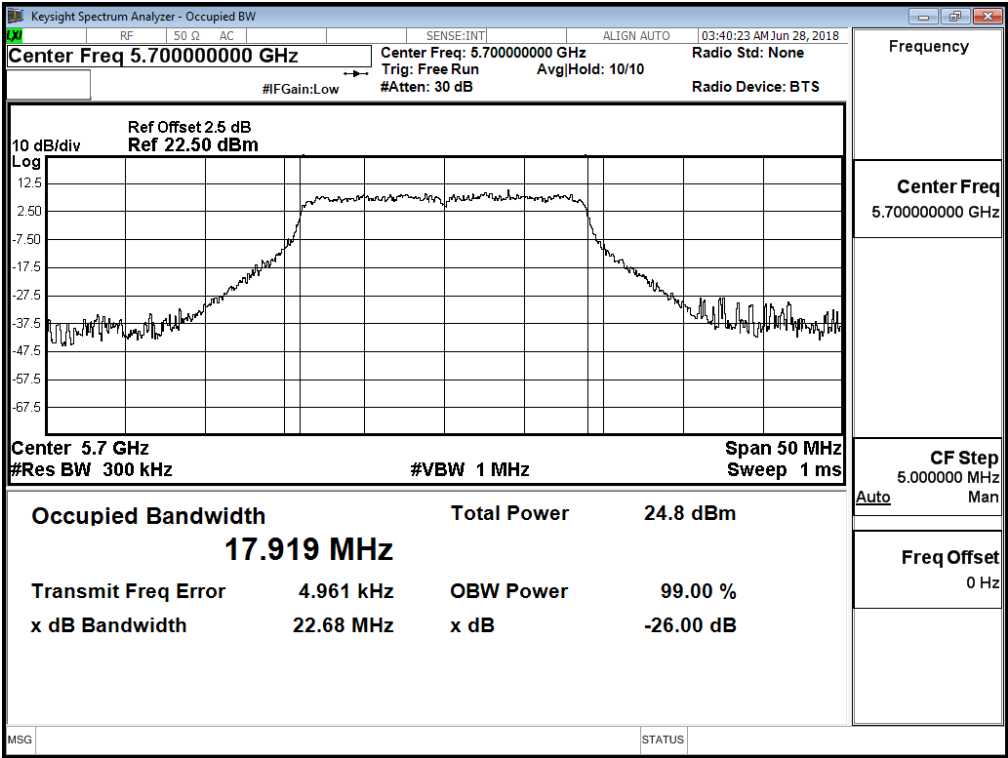
Channel 100 -Chain A



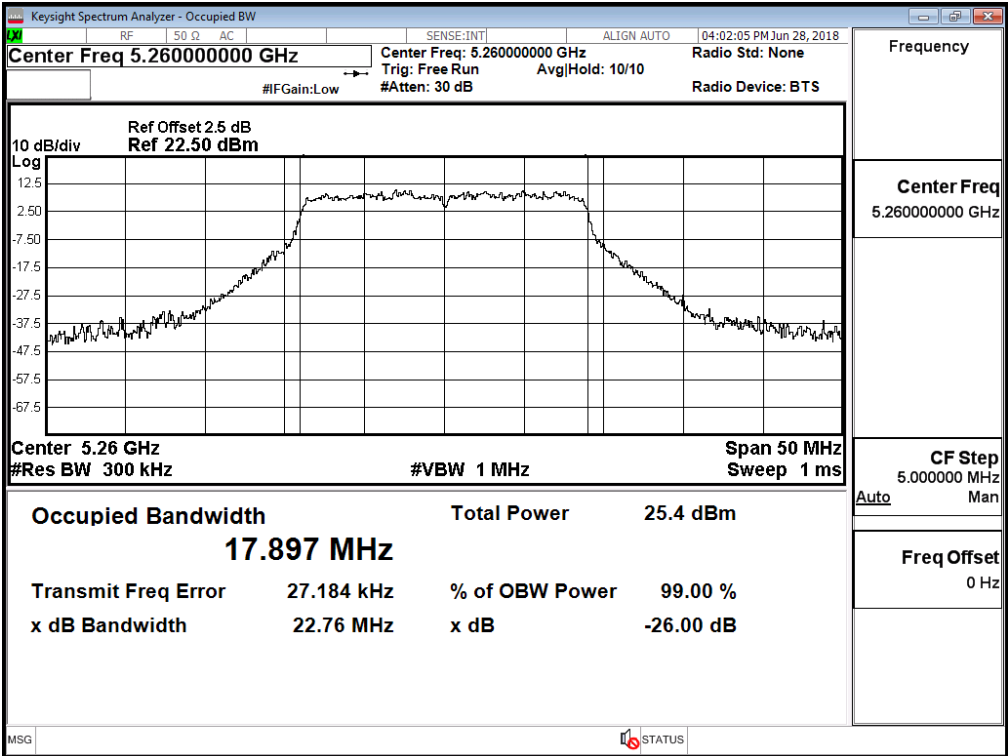
Channel 116 -Chain A



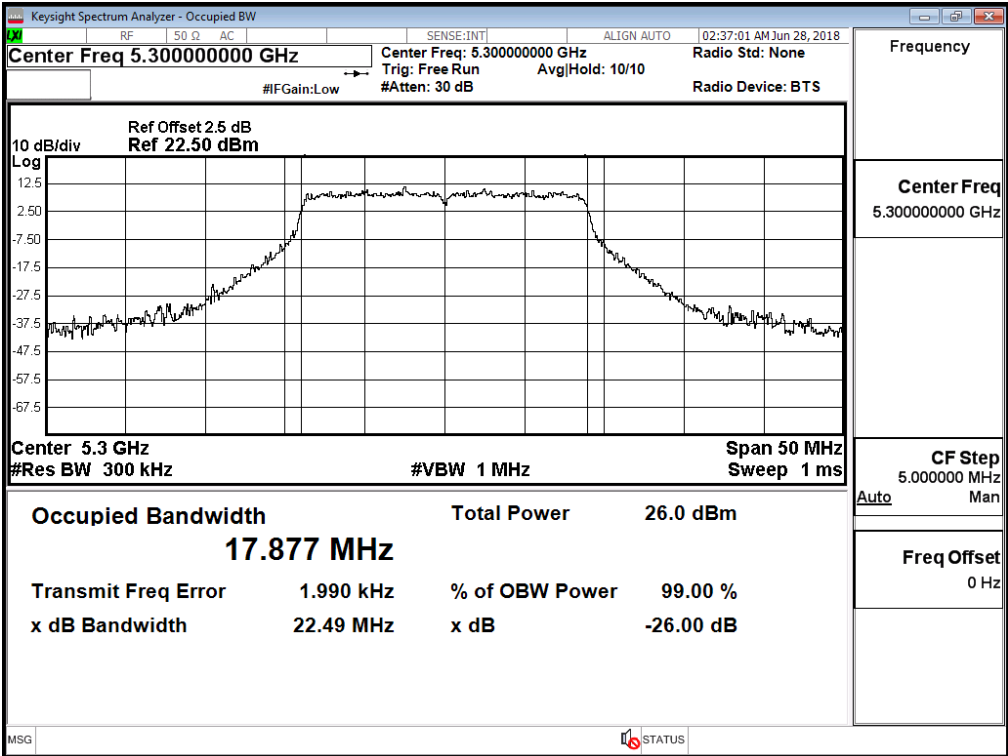
Channel 140 -Chain A



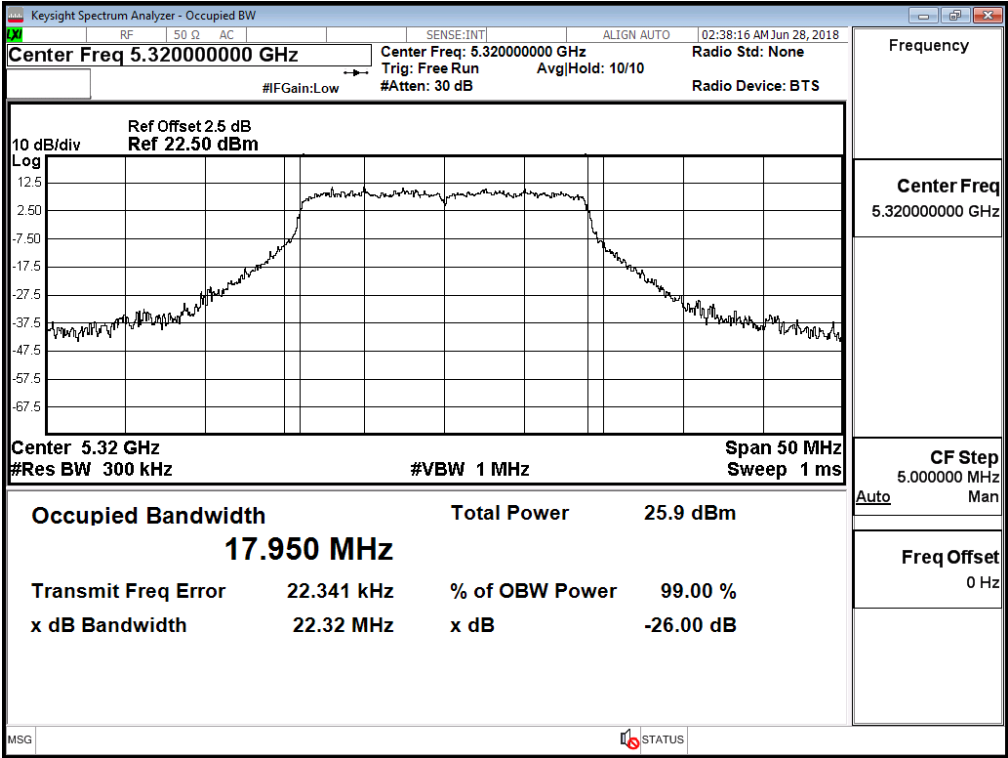
99% Bandwidth:
Channel 52 -Chain B



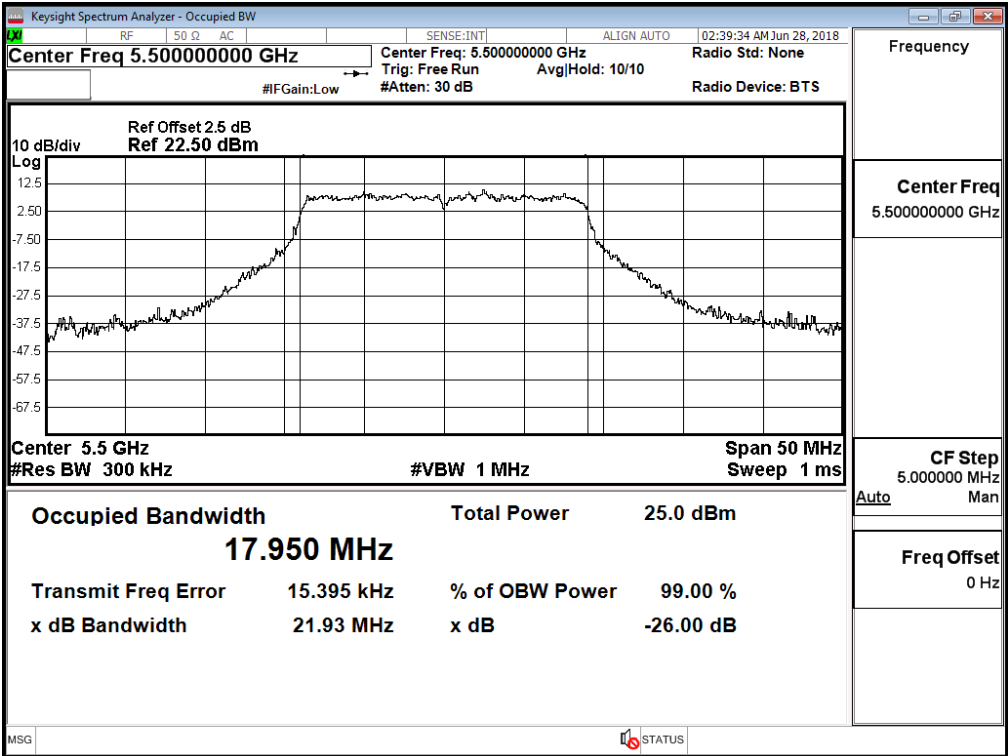
Channel 60 -Chain B



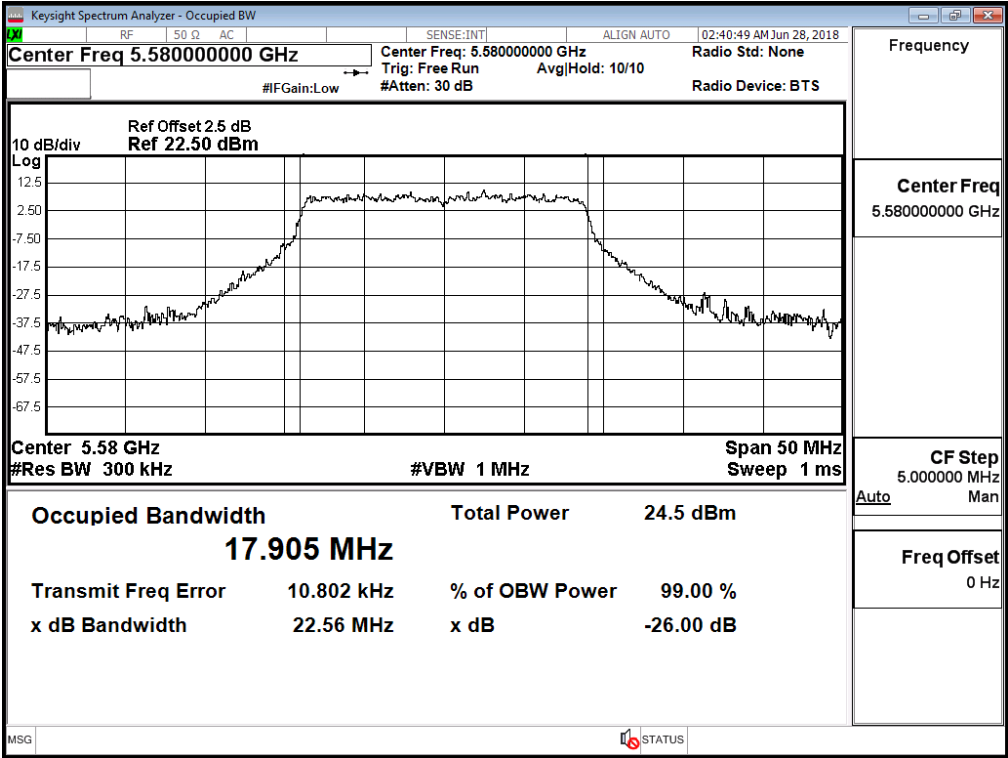
Channel 64 -Chain B



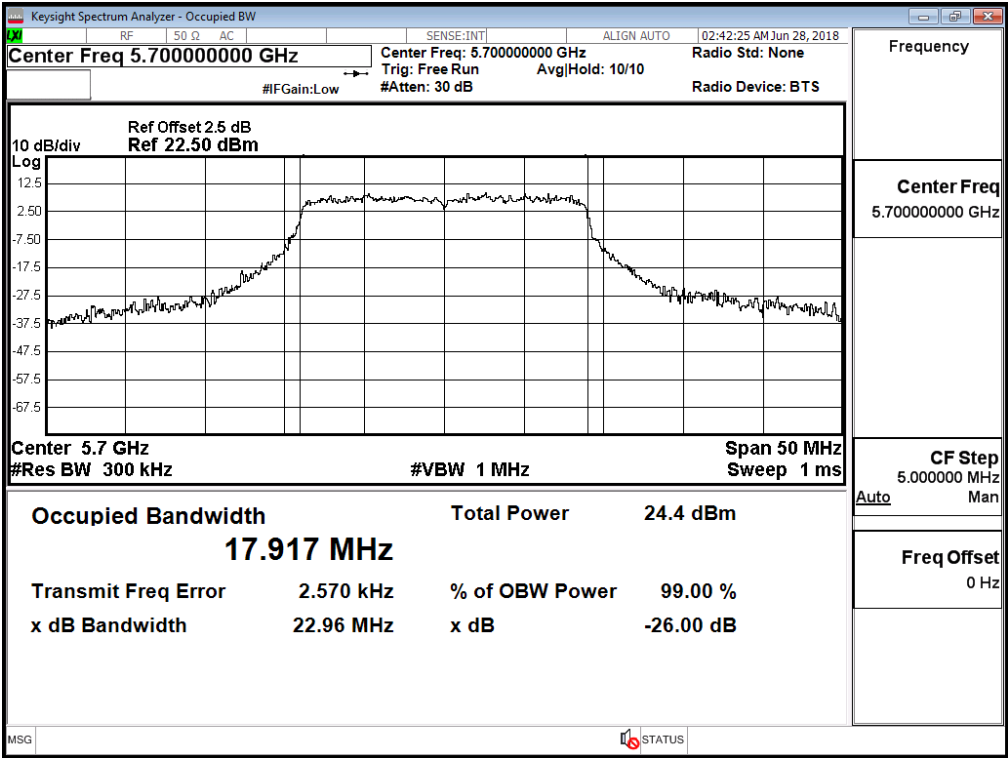
Channel 100 -Chain B



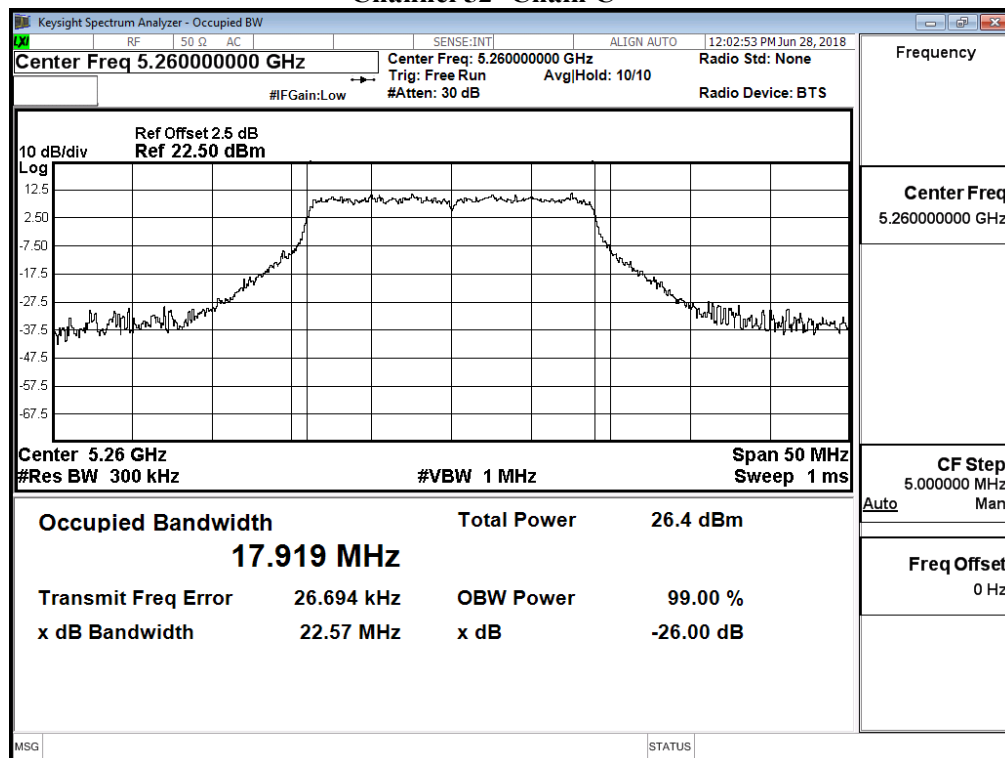
Channel 116 -Chain B



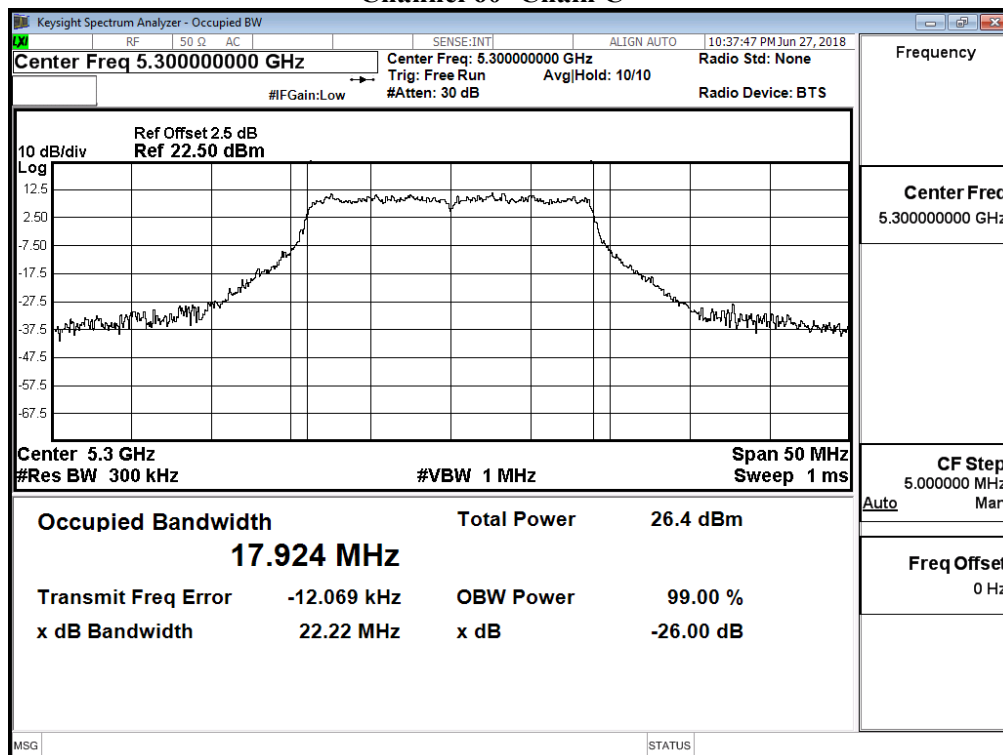
Channel 140 -Chain B



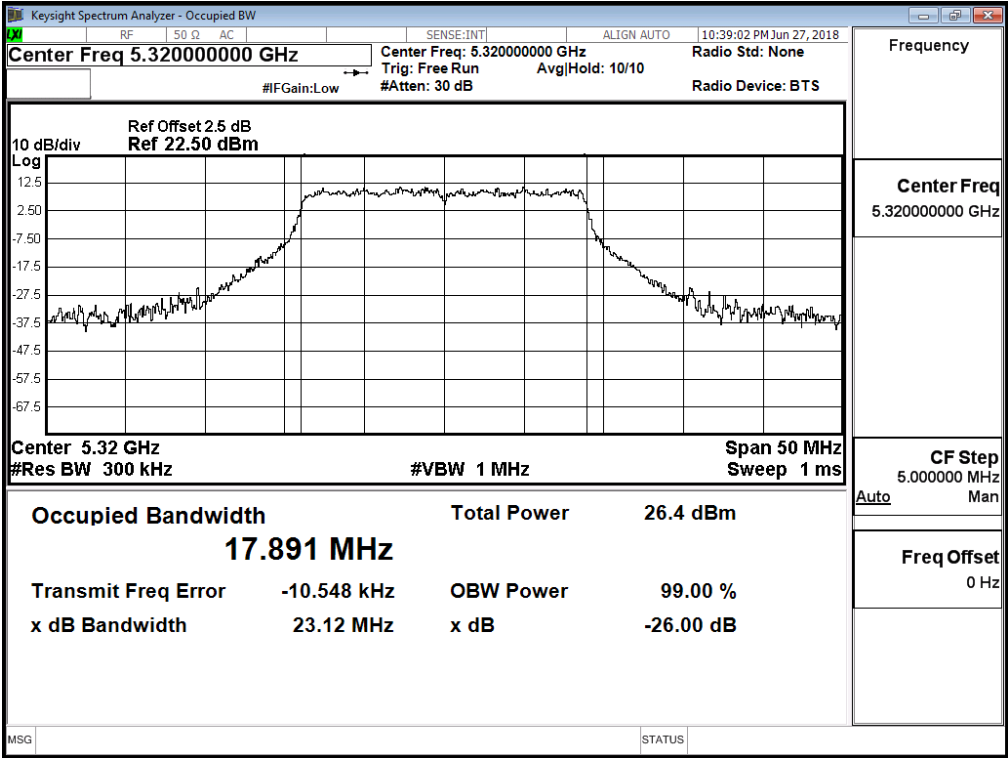
**99% Bandwidth:
Channel 52 -Chain C**



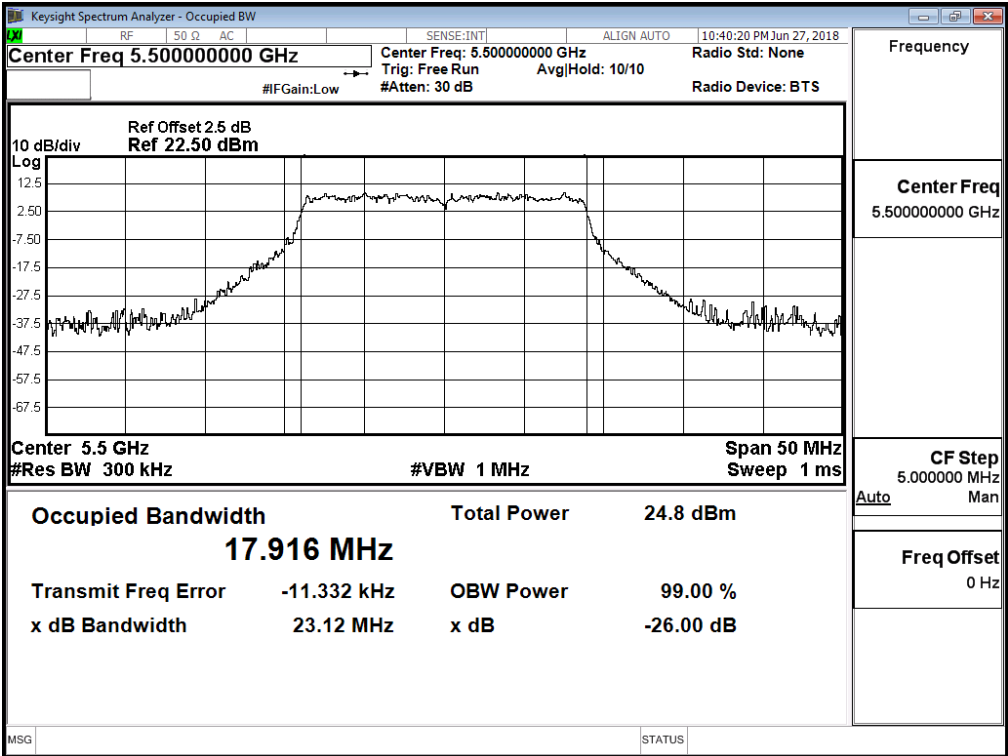
Channel 60 -Chain C



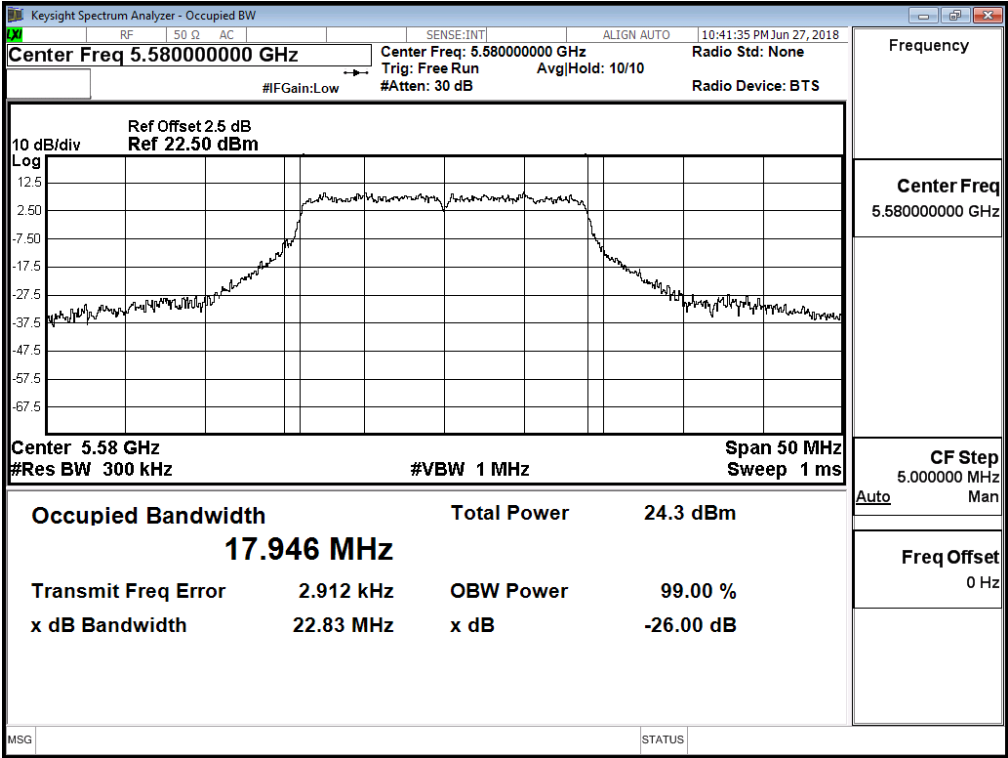
Channel 64 -Chain C



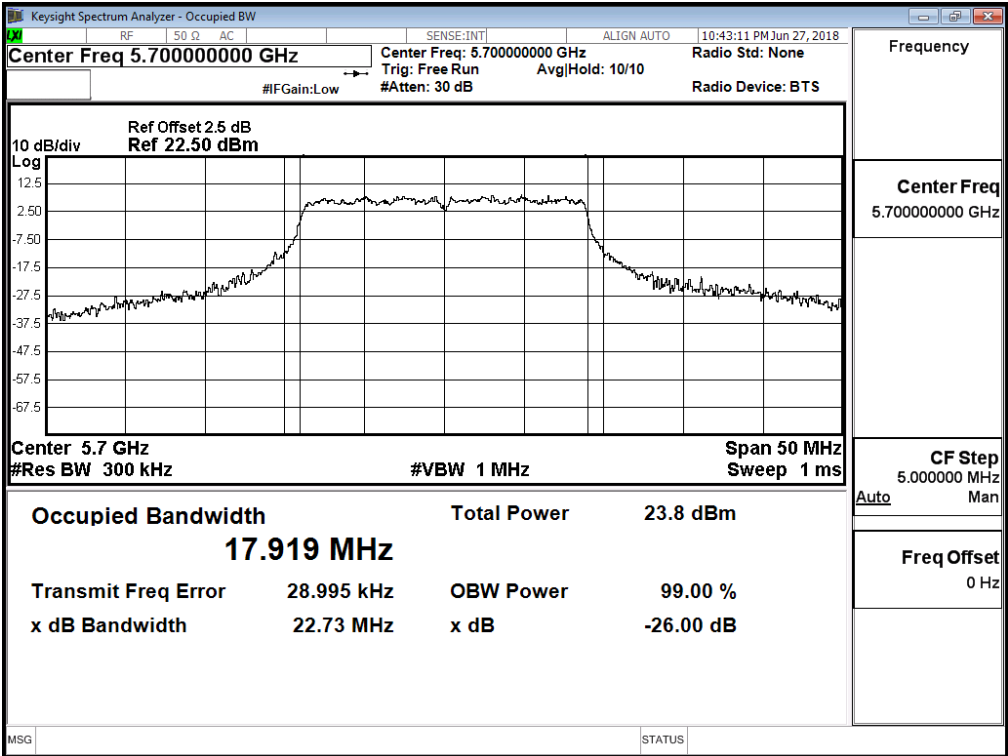
Channel 100 -Chain C



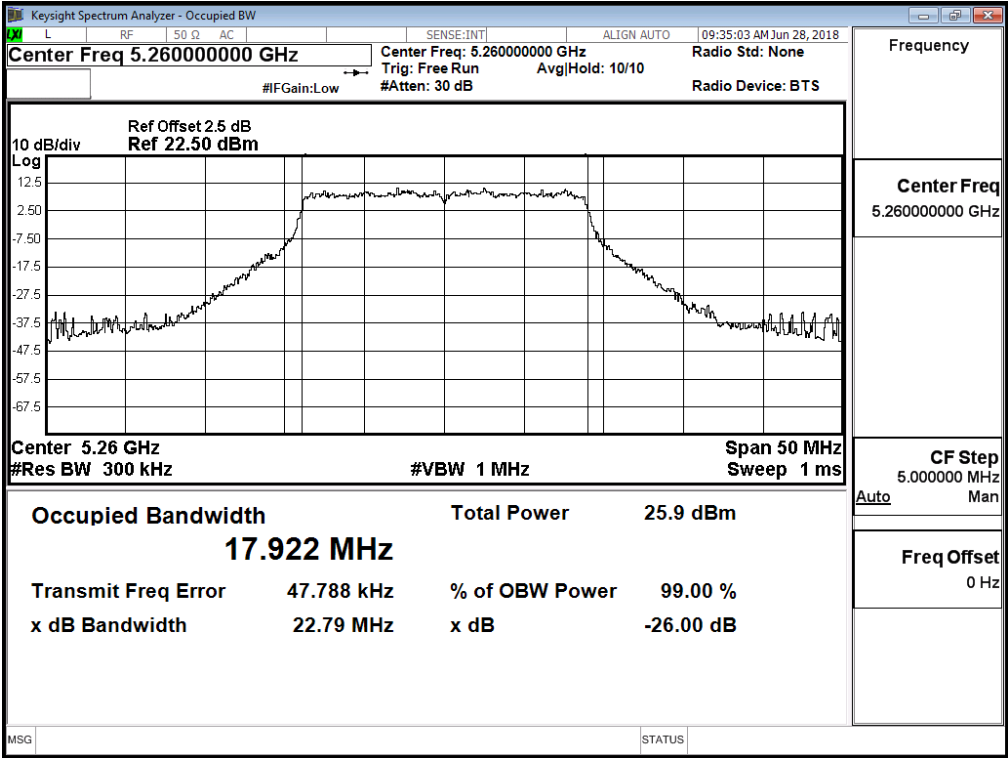
Channel 116 -Chain C



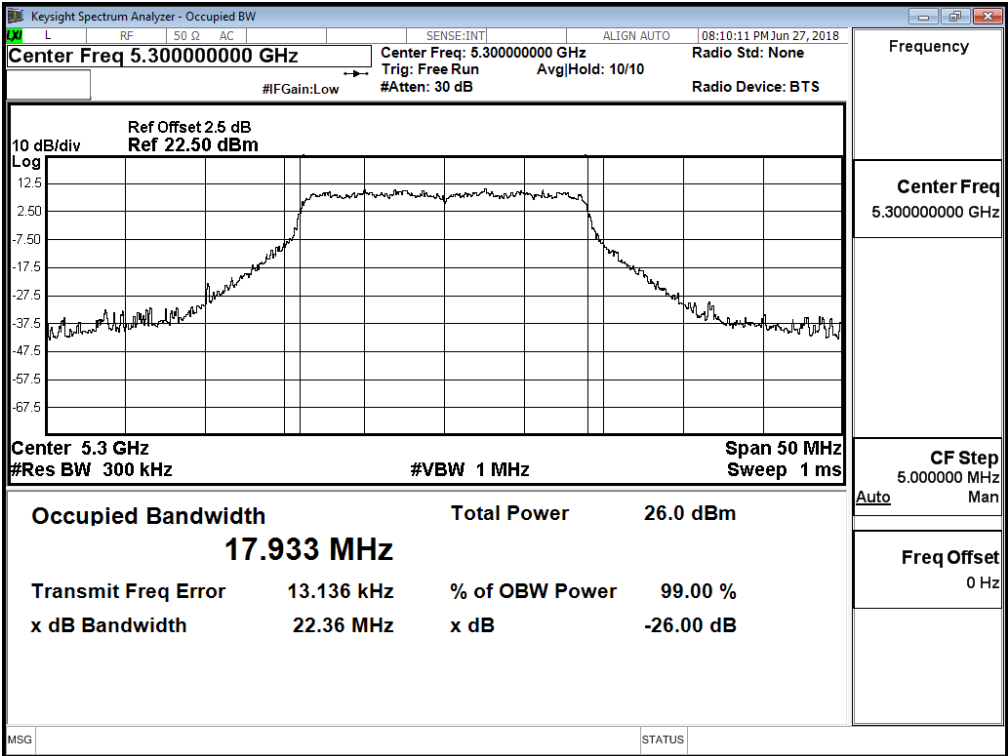
Channel 140 -Chain C



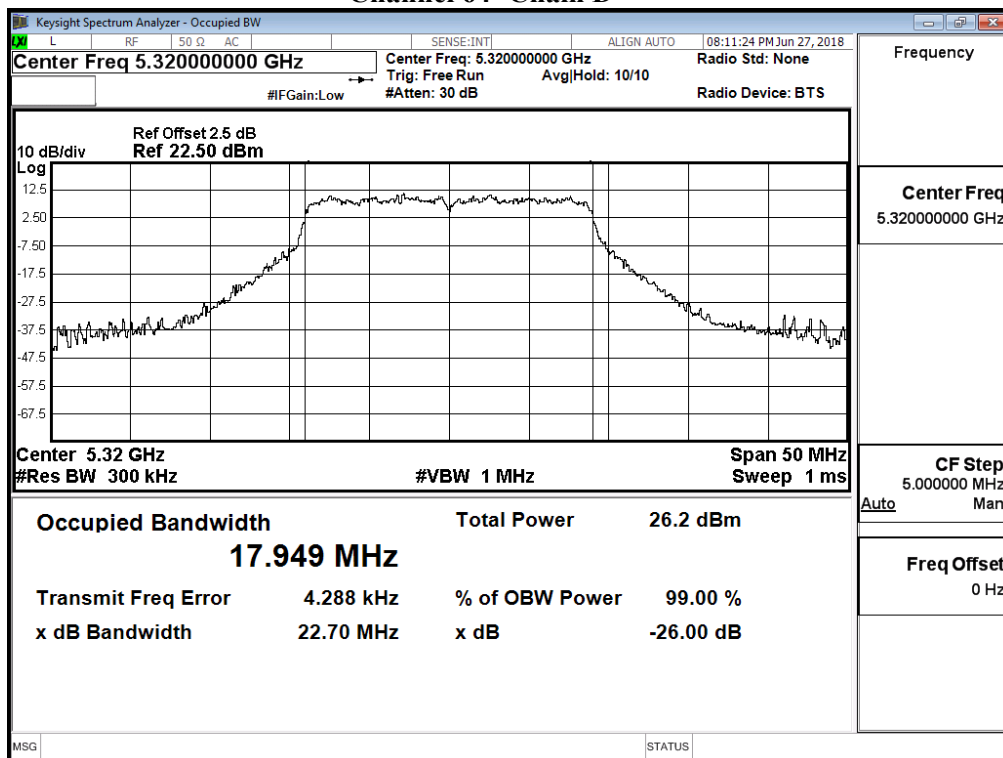
99% Bandwidth:
Channel 52 -Chain D



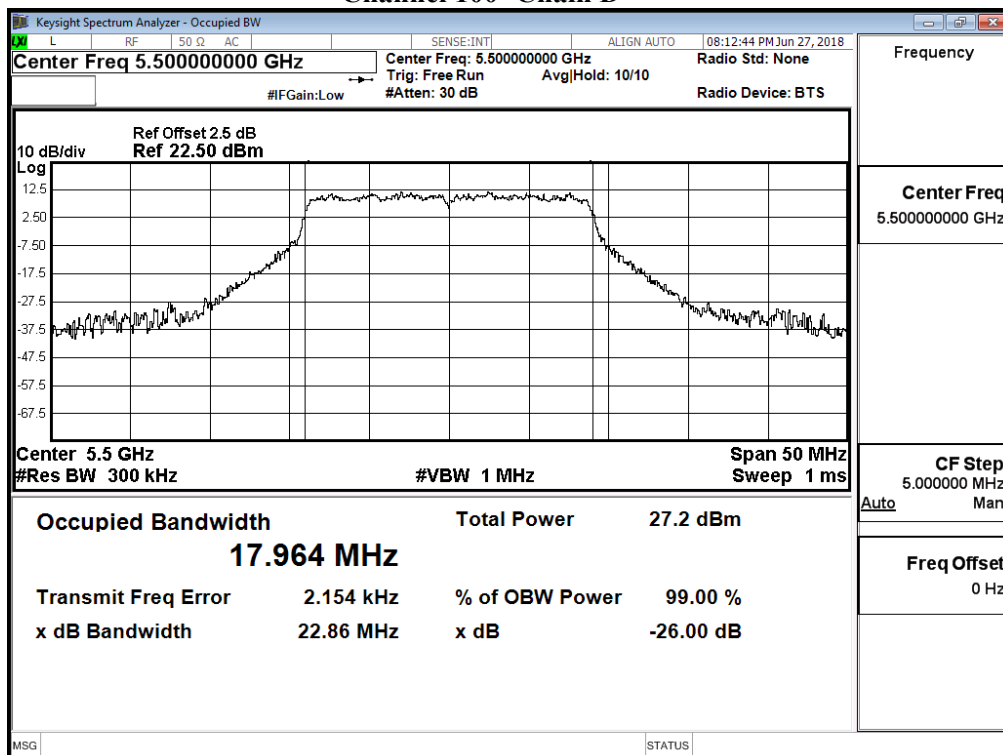
Channel 60 -Chain D



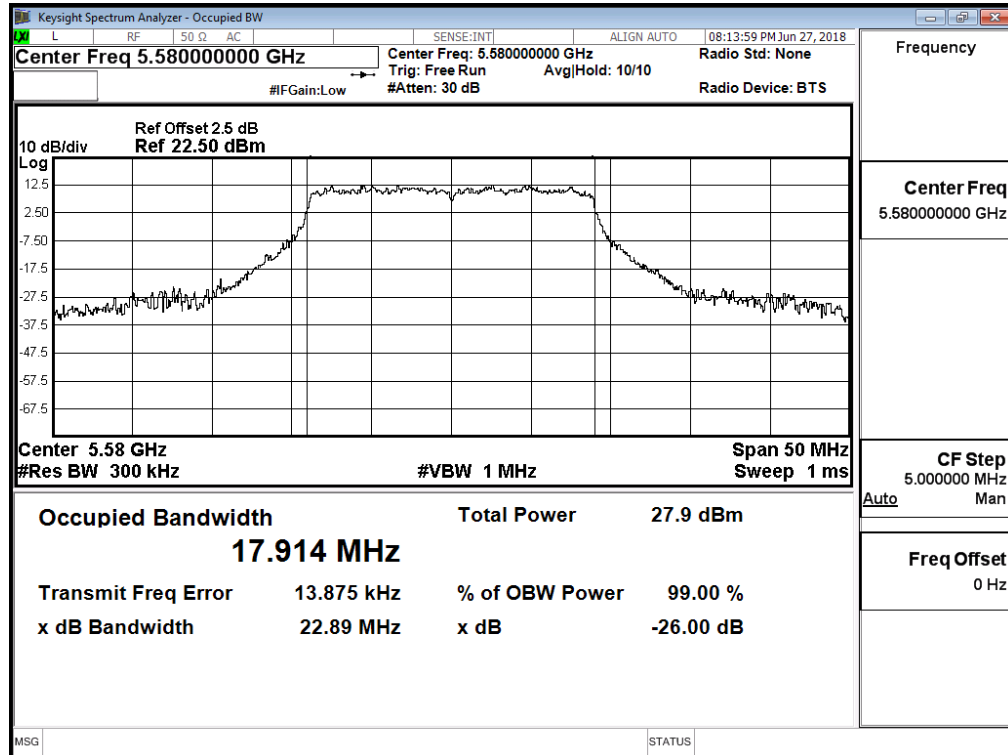
Channel 64 -Chain D



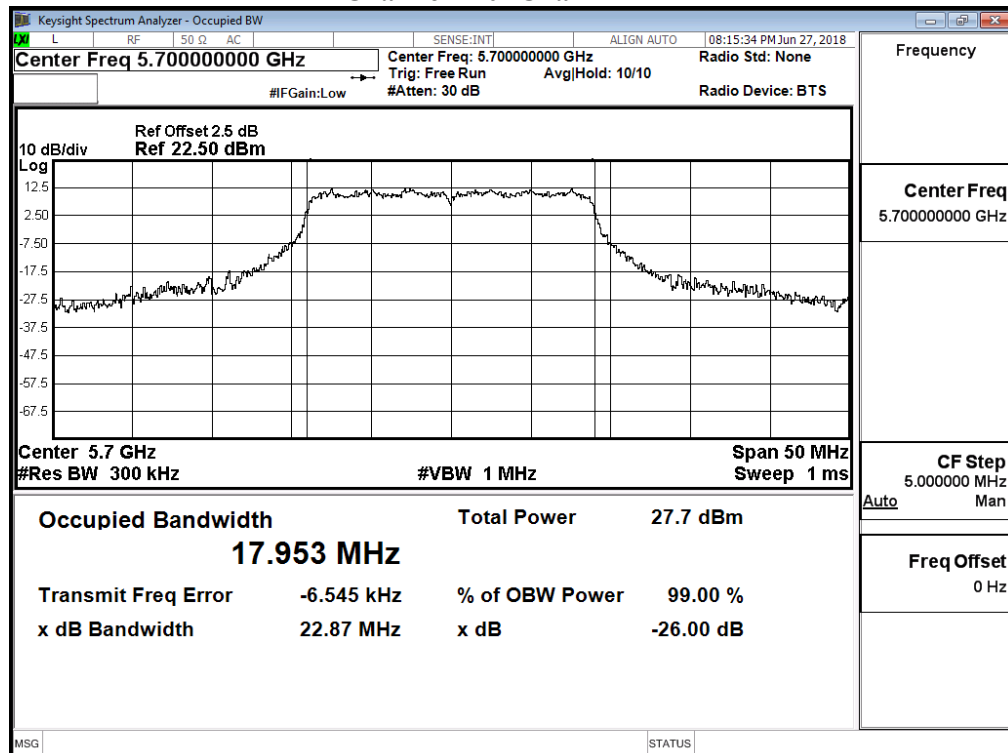
Channel 100 -Chain D



Channel 116 -Chain D



Channel 140 -Chain D



Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.7)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		60	120	180	240	360	480	540	600	
		Measurement Level (dBm)								
38	5190	18.01	--	--	--	--	--	--	--	<24dBm
46	5230	17.53	17.45	17.36	17.3	17.21	17.11	17.02	16.92	<24dBm
54	5270	17.55	--	--	--	--	--	--	--	<24dBm
62	5310	17.26	17.21	17.15	17.08	16.99	16.91	16.84	16.78	<24dBm
102	5510	17.74	--	--	--	--	--	--	--	<24dBm
110	5550	17.57	17.5	17.41	17.34	17.26	17.2	17.14	17.07	<24dBm
134	5670	16.82	--	--	--	--	--	--	--	<24dBm
151	5755	18.78	--	--	--	--	--	--	--	<30dBm
159	5795	18.15	18.08	18.03	17.96	17.87	17.82	17.74	17.68	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		60	120	180	240	360	480	540	600	
		Measurement Level (dBm)								
38	5190	17.98	--	--	--	--	--	--	--	<24dBm
46	5230	17.36	17.27	17.21	17.15	17.05	16.95	16.87	16.78	<24dBm
54	5270	17.22	--	--	--	--	--	--	--	<24dBm
62	5310	17.46	17.36	17.29	17.22	17.14	17.09	17.03	16.97	<24dBm
102	5510	17.4	--	--	--	--	--	--	--	<24dBm
110	5550	17.02	16.96	16.87	16.81	16.76	16.68	16.59	16.53	<24dBm
134	5670	16.75	--	--	--	--	--	--	--	<24dBm
151	5755	19.32	--	--	--	--	--	--	--	<30dBm
159	5795	20.26	20.17	20.11	20.02	19.94	19.88	19.79	19.73	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		60	120	180	240	360	480	540	600	
		Measurement Level (dBm)								
38	5190	17.95	--	--	--	--	--	--	--	<24dBm
46	5230	17.67	17.57	17.48	17.42	17.35	17.27	17.19	17.11	<24dBm
54	5270	17.45	--	--	--	--	--	--	--	<24dBm
62	5310	17.47	17.37	17.32	17.25	17.17	17.12	17.03	16.94	<24dBm
102	5510	16.93	--	--	--	--	--	--	--	<24dBm
110	5550	16.96	16.9	16.85	16.76	16.67	16.62	16.57	16.48	<24dBm
134	5670	17.01	--	--	--	--	--	--	--	<24dBm
151	5755	18.75	--	--	--	--	--	--	--	<30dBm
159	5795	19.9	19.8	19.73	19.65	19.59	19.53	19.47	19.41	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		60	120	180	240	360	480	540	600	
		Measurement Level (dBm)								
38	5190	17.41	--	--	--	--	--	--	--	<24dBm
46	5230	17.17	17.08	17	16.95	16.89	16.83	16.77	16.71	<24dBm
54	5270	17.13	--	--	--	--	--	--	--	<24dBm
62	5310	17	16.92	16.82	16.72	16.64	16.58	16.52	16.44	<24dBm
102	5510	17.88	--	--	--	--	--	--	--	<24dBm
110	5550	18.1	18.05	17.99	17.94	17.88	17.82	17.77	17.71	<24dBm
134	5670	17.85	--	--	--	--	--	--	--	<24dBm
151	5755	19.67	--	--	--	--	--	--	--	<30dBm
159	5795	19.75	19.67	19.61	19.52	19.45	19.4	19.33	19.26	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit		Result
								(dBm)	dBm+10log(BW)	
38	5190	--	18.01	17.98	17.95	17.41	23.87	24	--	Pass
46	5230	--	17.53	17.36	17.67	17.17	23.46	24	--	Pass
54	5270	36.370	17.55	17.22	17.45	17.13	23.36	24	26.61	Pass
62	5310	36.431	17.26	17.46	17.47	17.00	23.32	24	26.61	Pass
102	5510	36.461	17.74	17.40	16.93	17.88	23.52	24	26.62	Pass
110	5550	36.400	17.57	17.02	16.96	18.10	23.46	24	26.61	Pass
134	5670	36.392	16.82	16.75	17.01	17.85	23.15	24	26.61	Pass
151	5755	--	18.78	19.32	18.75	19.67	25.17	30	--	Pass
159	5795	--	18.15	20.26	19.90	19.75	25.61	30	--	Pass

Note:

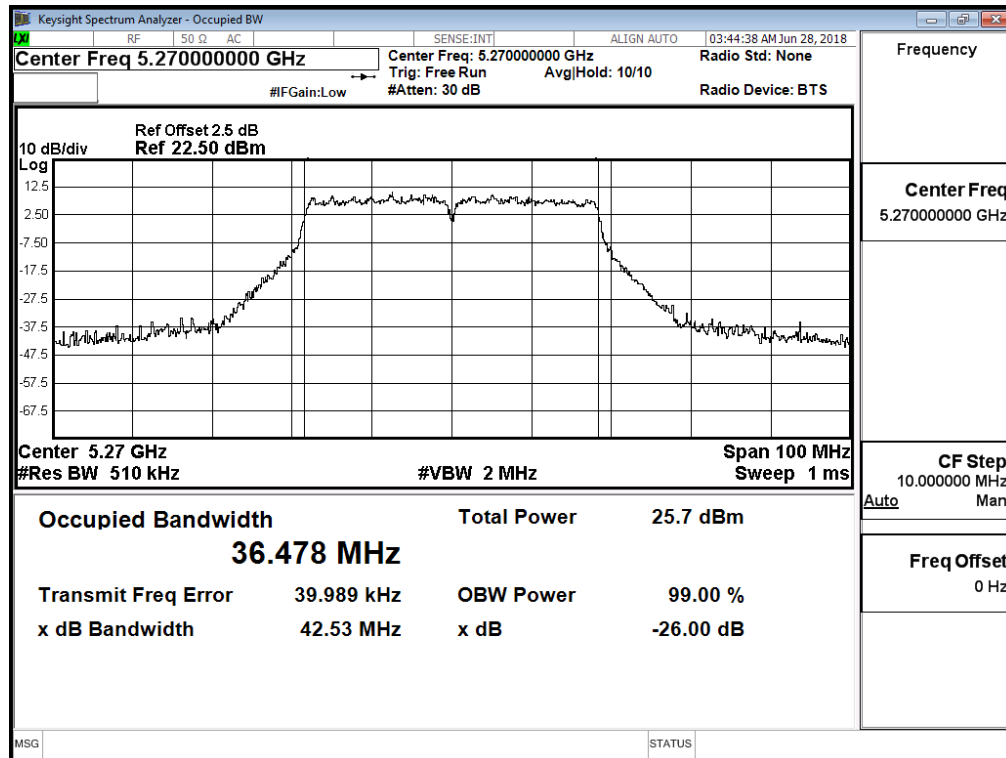
1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))
2. 26 dB Bandwidth is the bandwidth of chain A, chain B, chain C or chain D whichever is less bandwidth, output power limitation is more stringent.

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

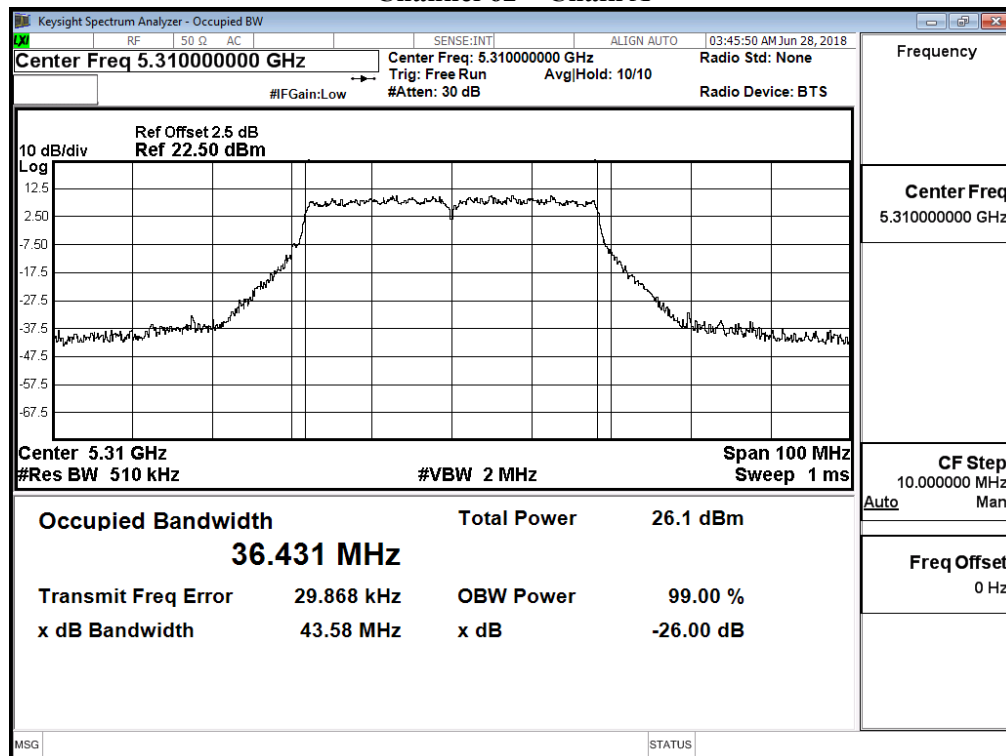
Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	11.37	11.03	11.34	10.95	17.20	Pass
62	5310	10.93	11.10	11.12	10.87	17.03	Pass
102	5510	11.55	11.27	10.55	11.65	17.30	Pass
110	5550	11.33	10.74	10.67	11.98	17.23	Pass
134	5670	10.53	10.56	10.82	11.52	16.90	Pass

99% Bandwidth:

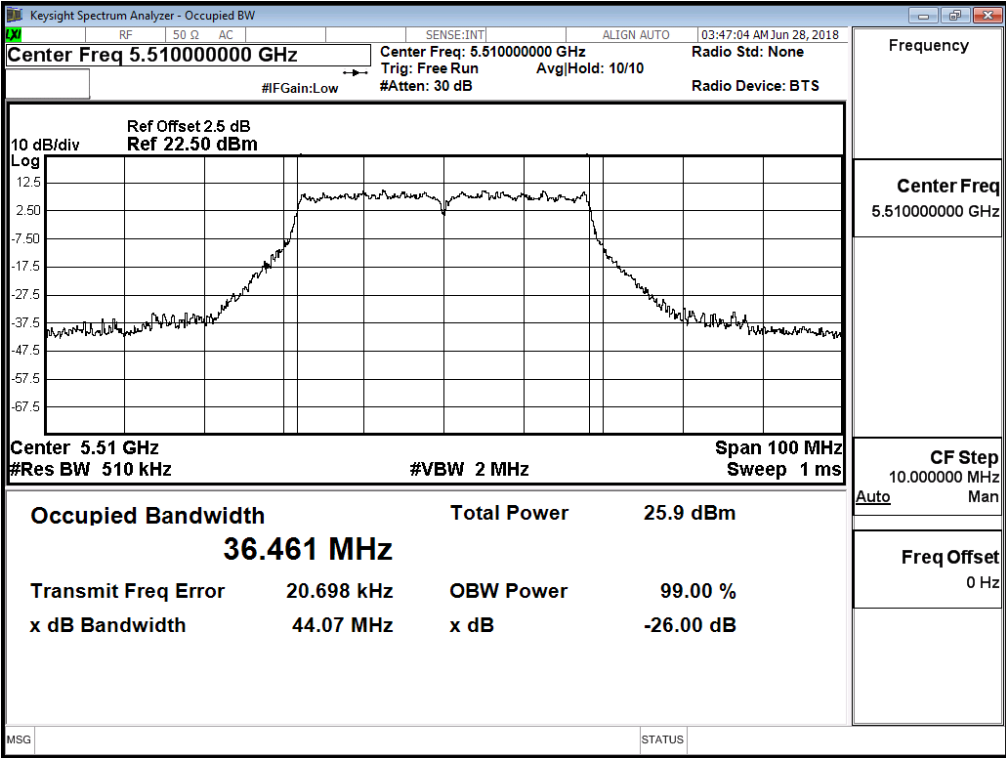
Channel 54 – Chain A



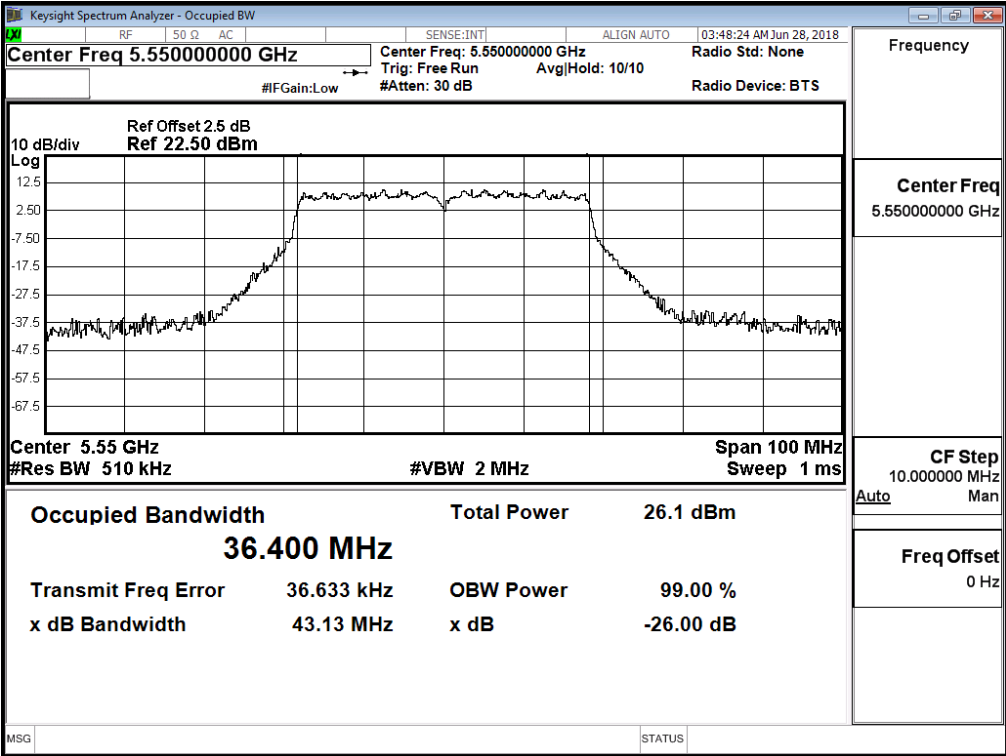
Channel 62 – Chain A



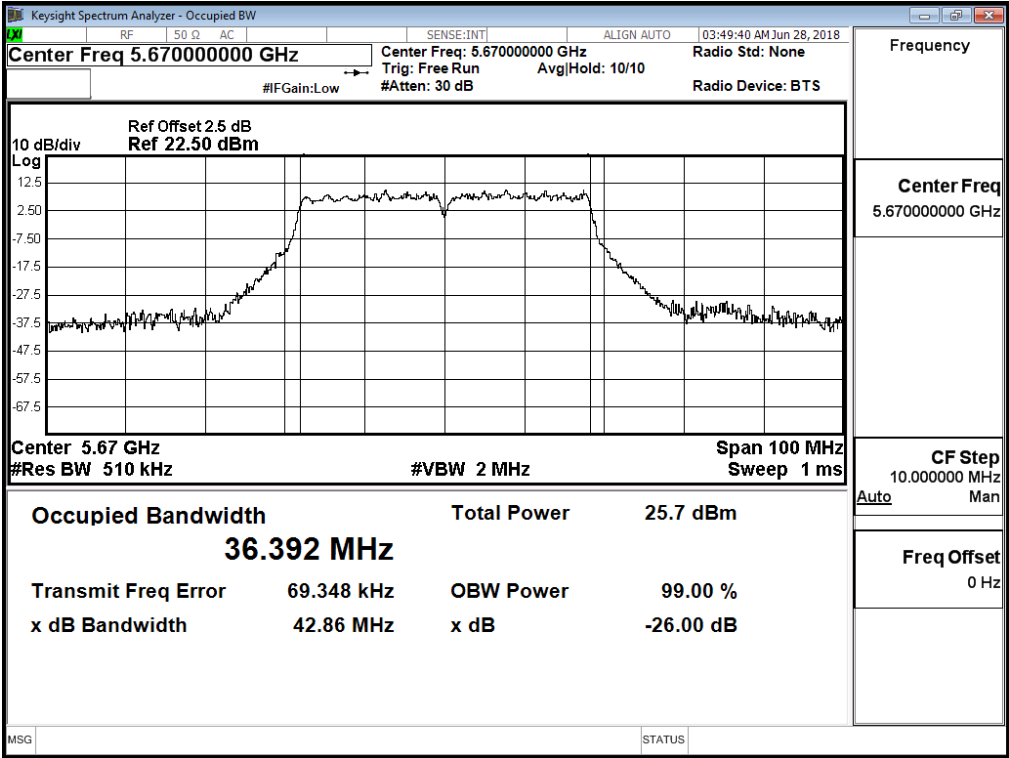
Channel 102 – Chain A



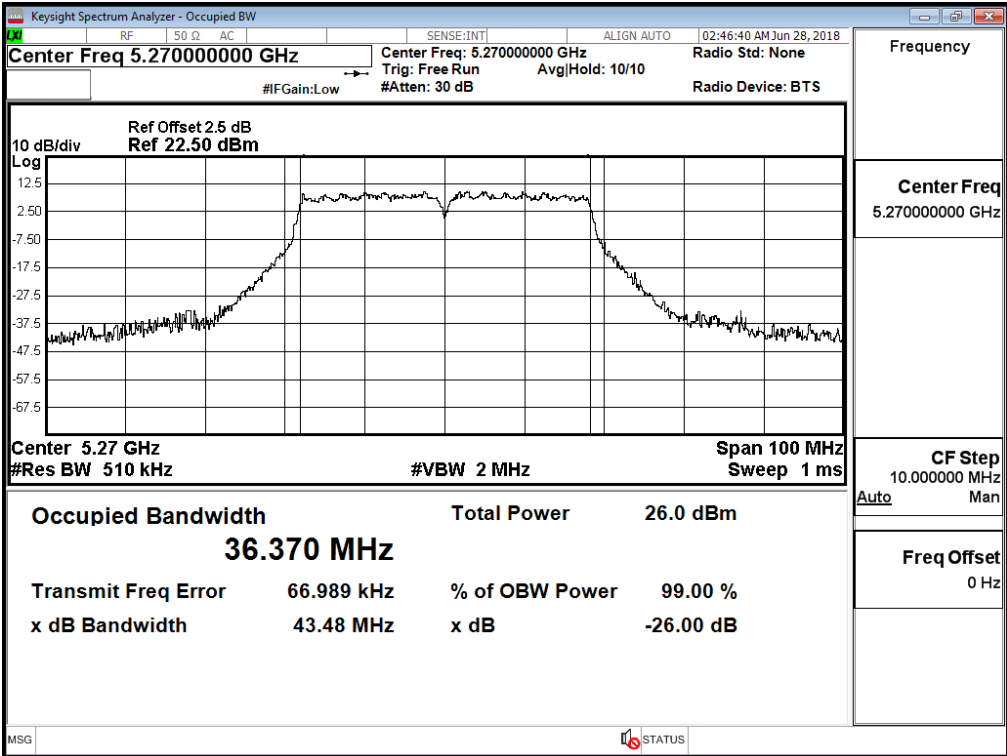
Channel 110 – Chain A



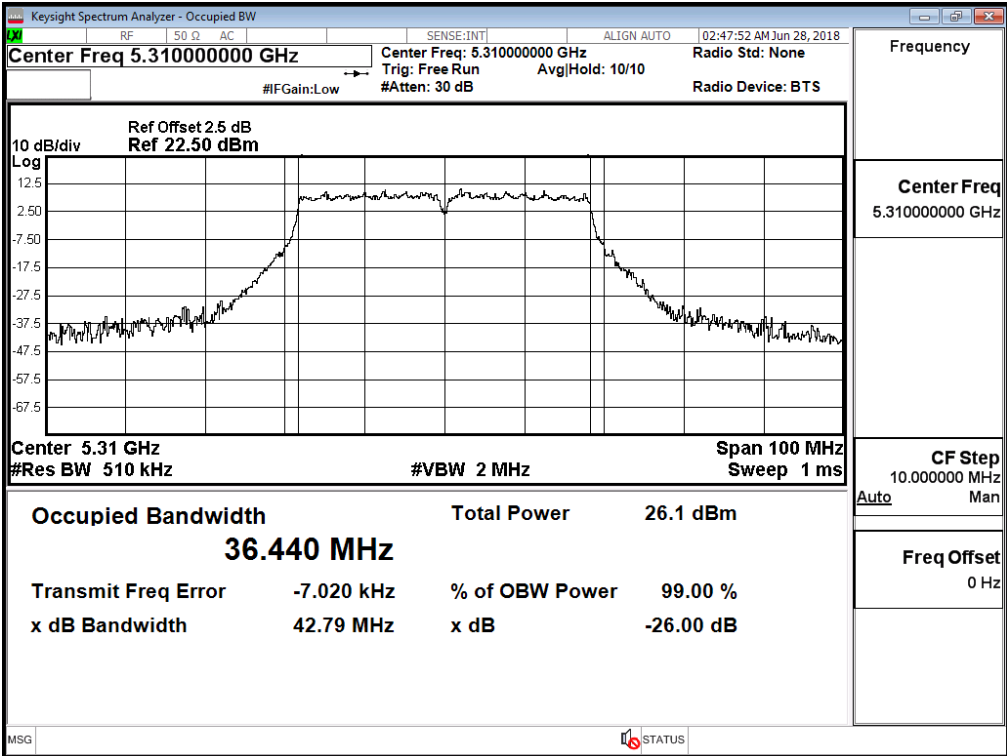
Channel 134 – Chain A



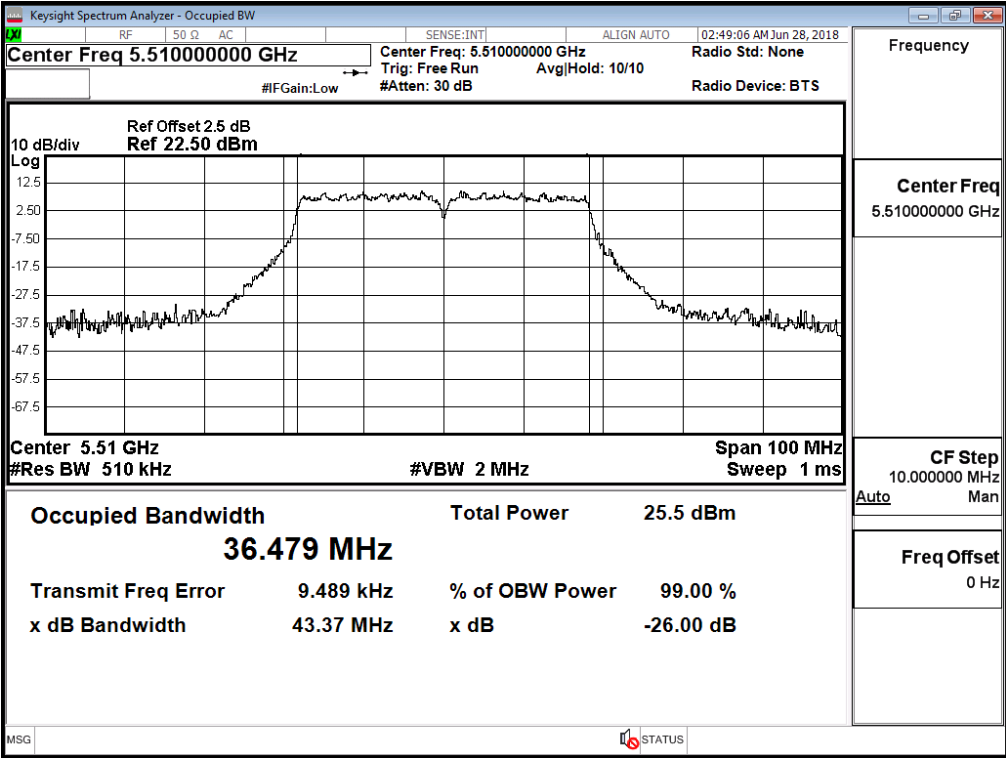
99% Bandwidth:
Channel 54 – Chain B



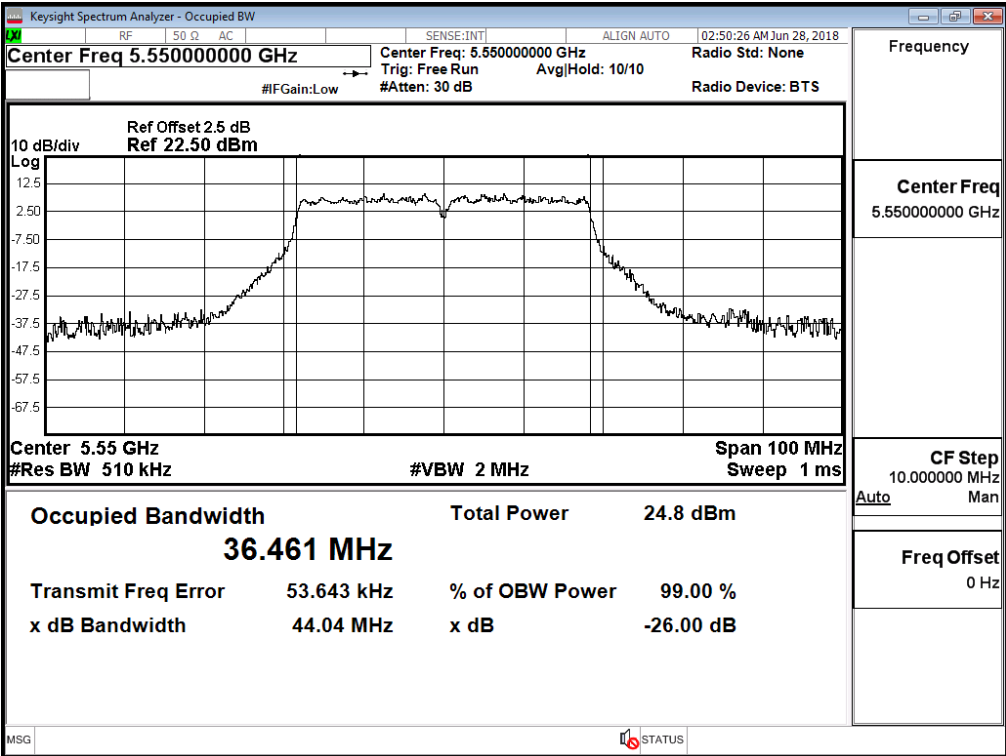
Channel 62 – Chain B



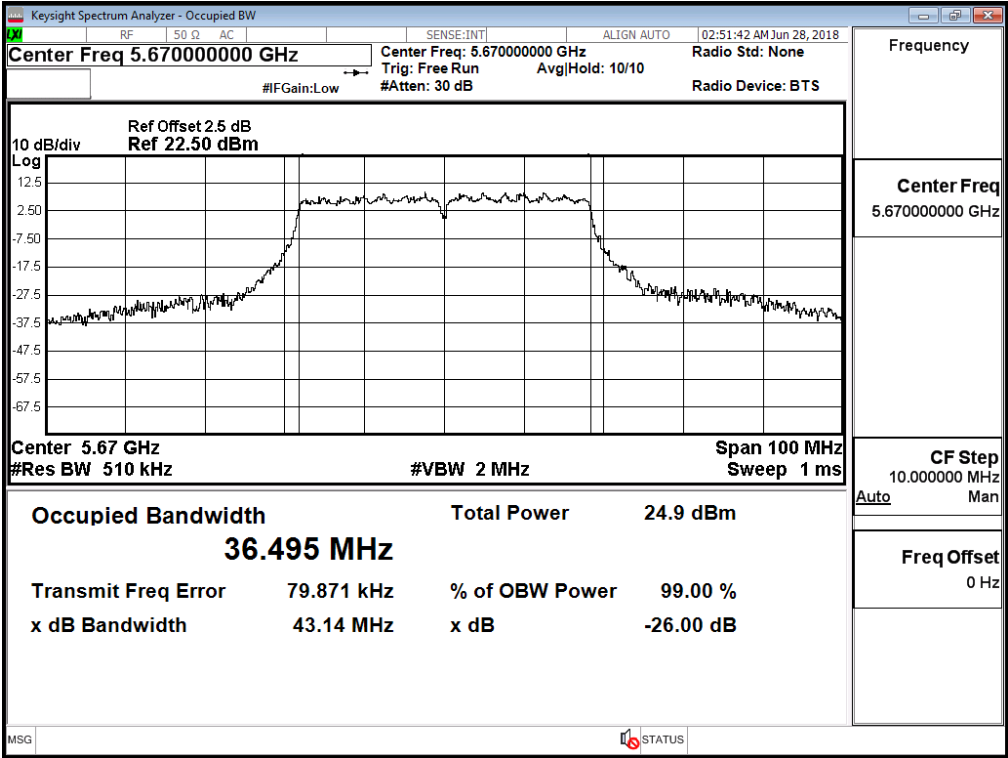
Channel 102 – Chain B



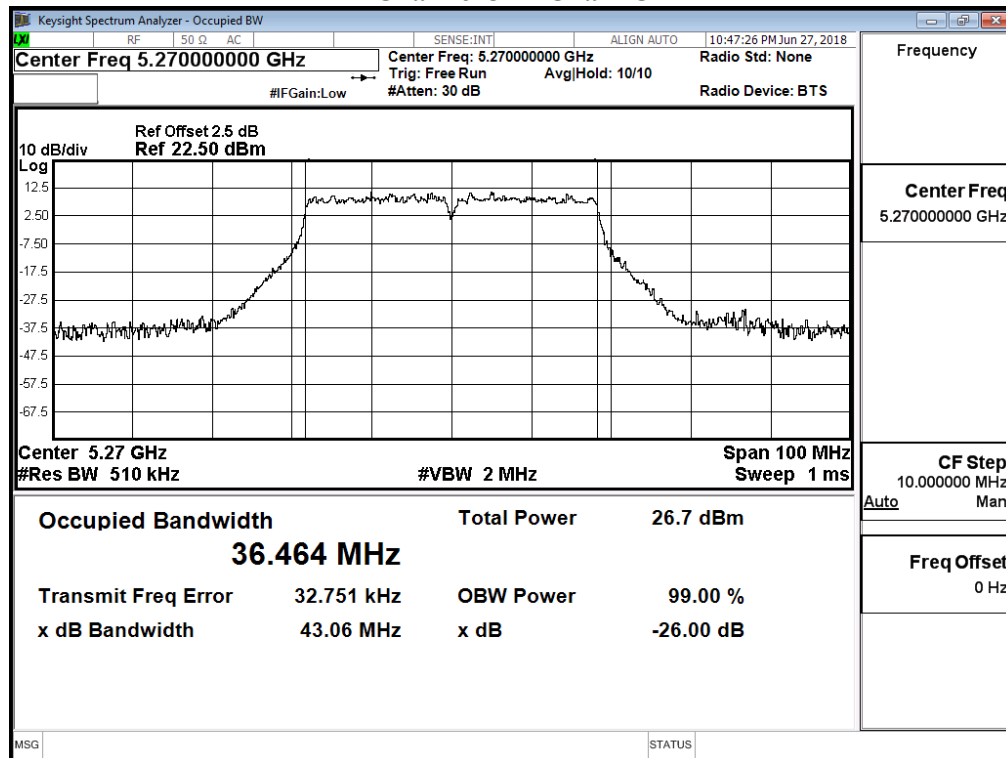
Channel 110 – Chain B



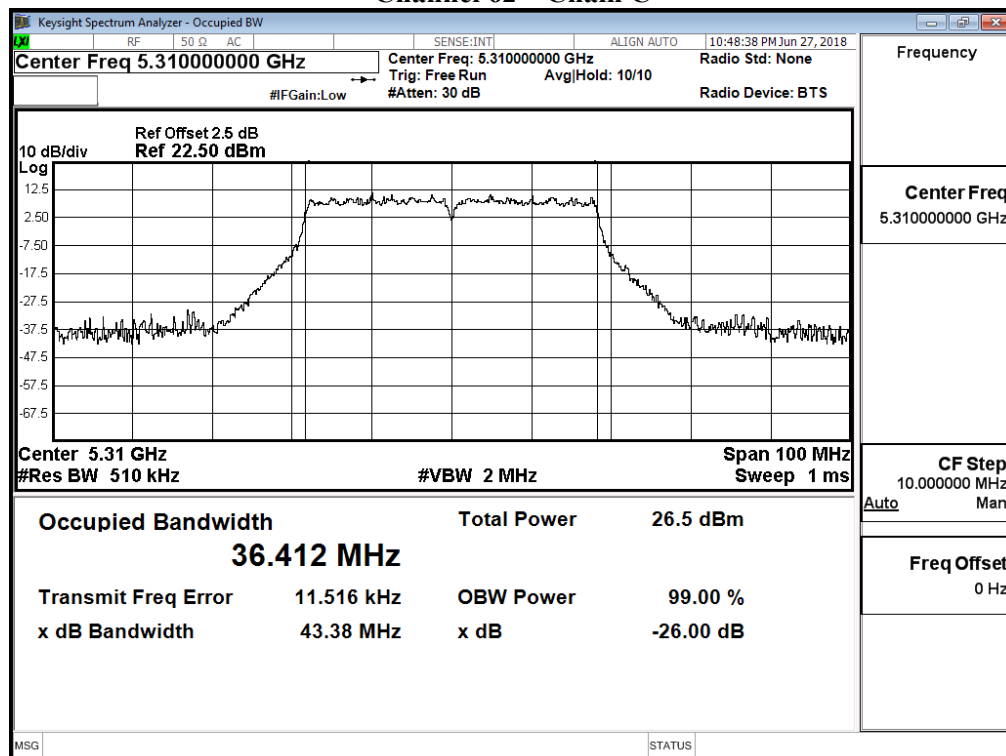
Channel 134 – Chain B



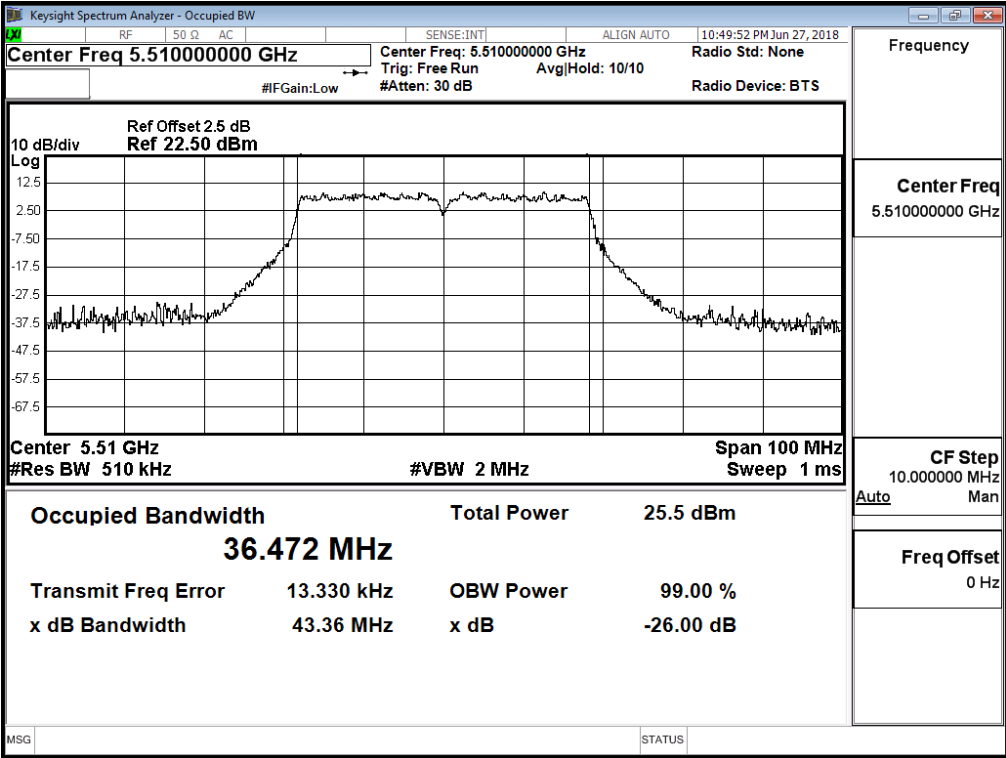
99% Bandwidth:
Channel 54 – Chain C



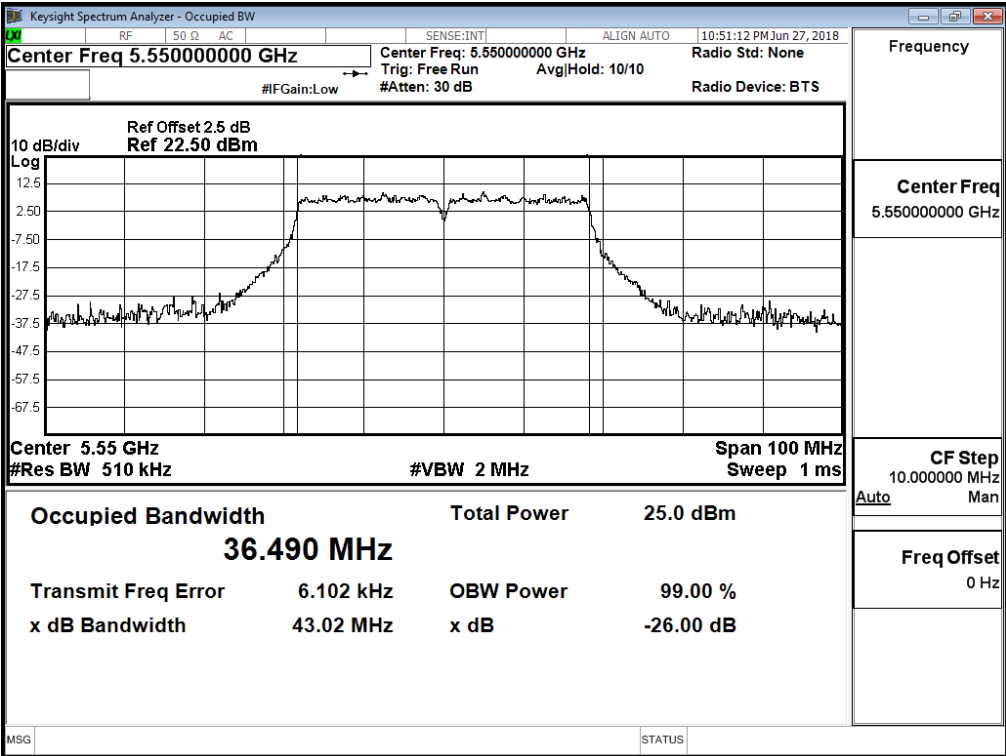
Channel 62 – Chain C



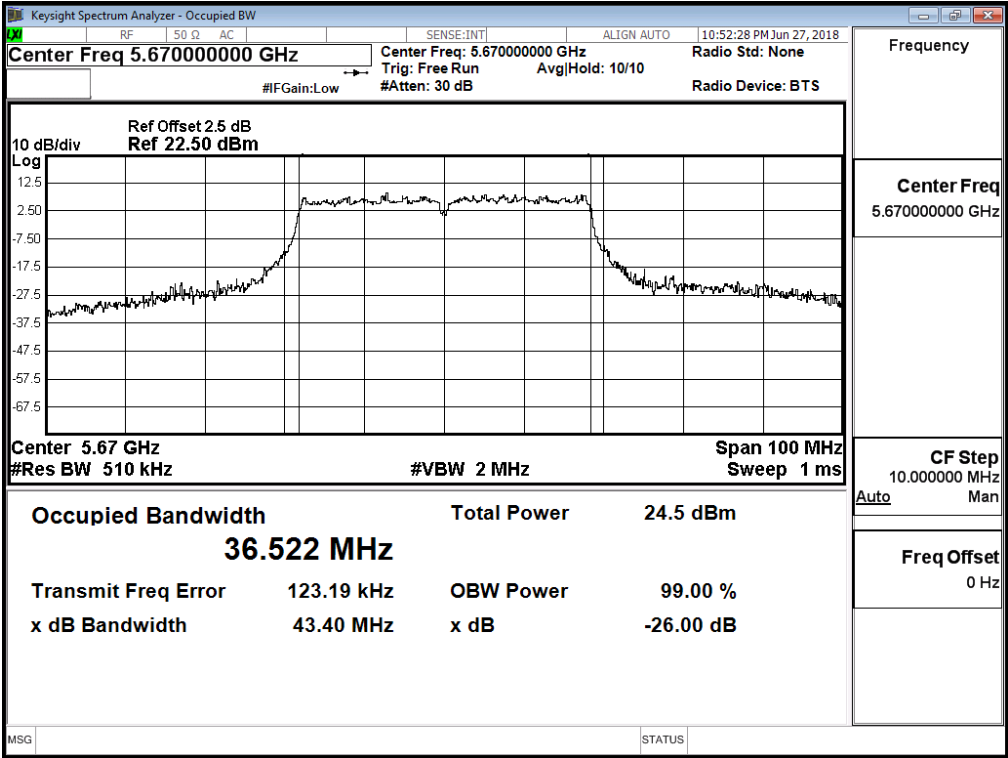
Channel 102 – Chain C



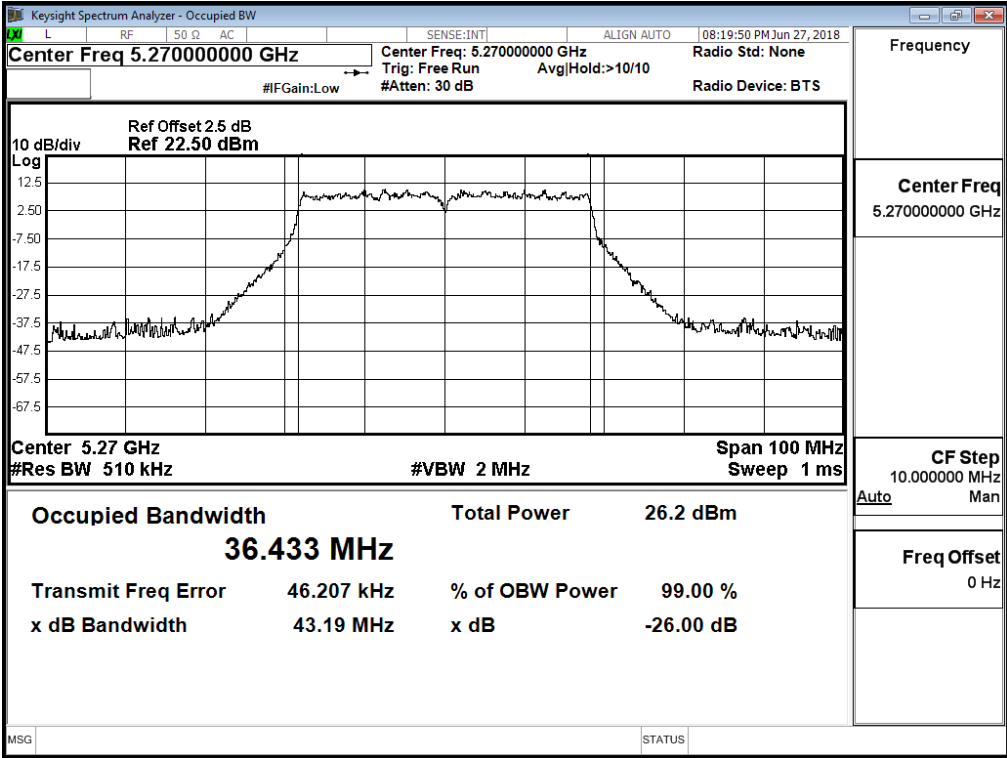
Channel 110 – Chain C



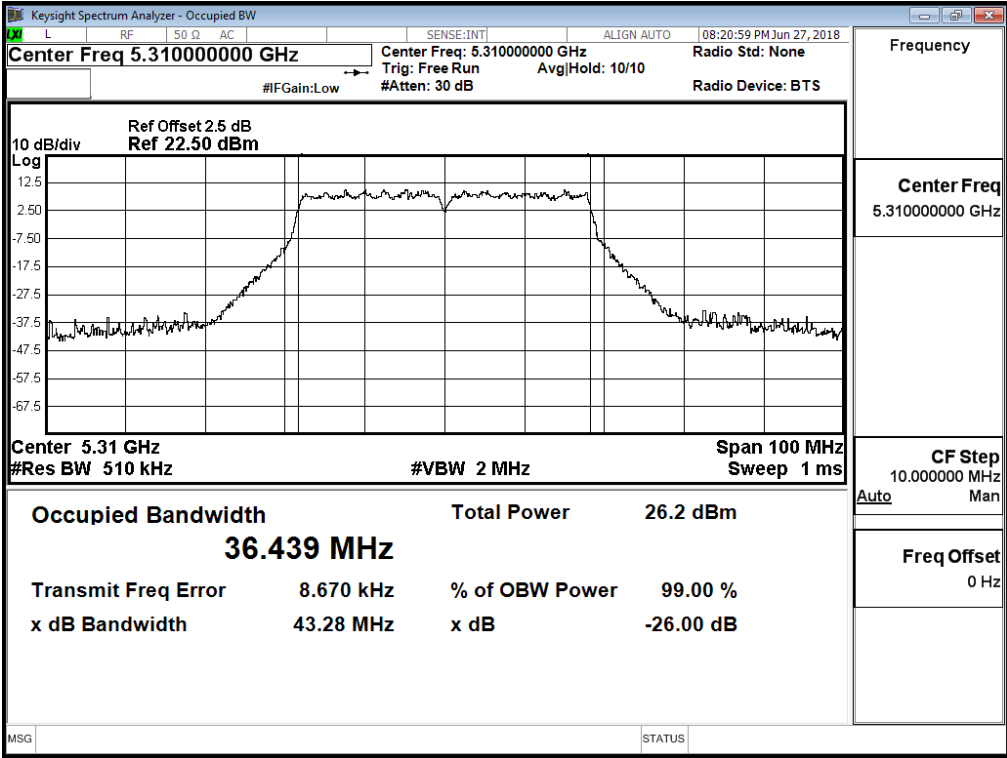
Channel 134 – Chain C



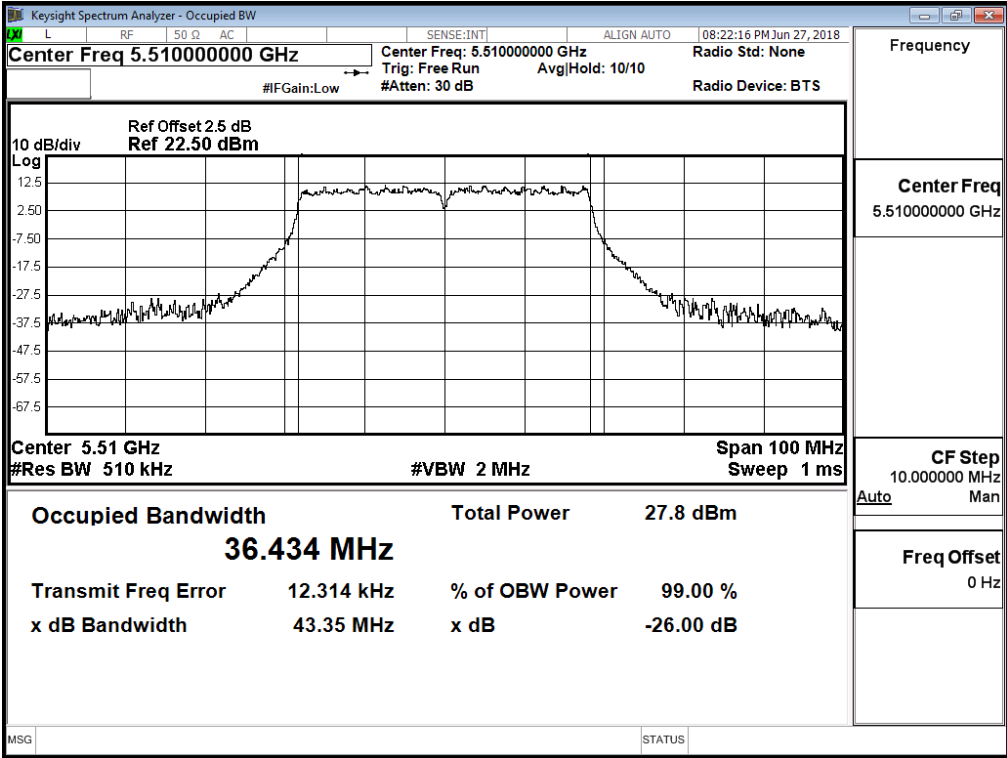
99% Bandwidth:
Channel 54 – Chain D



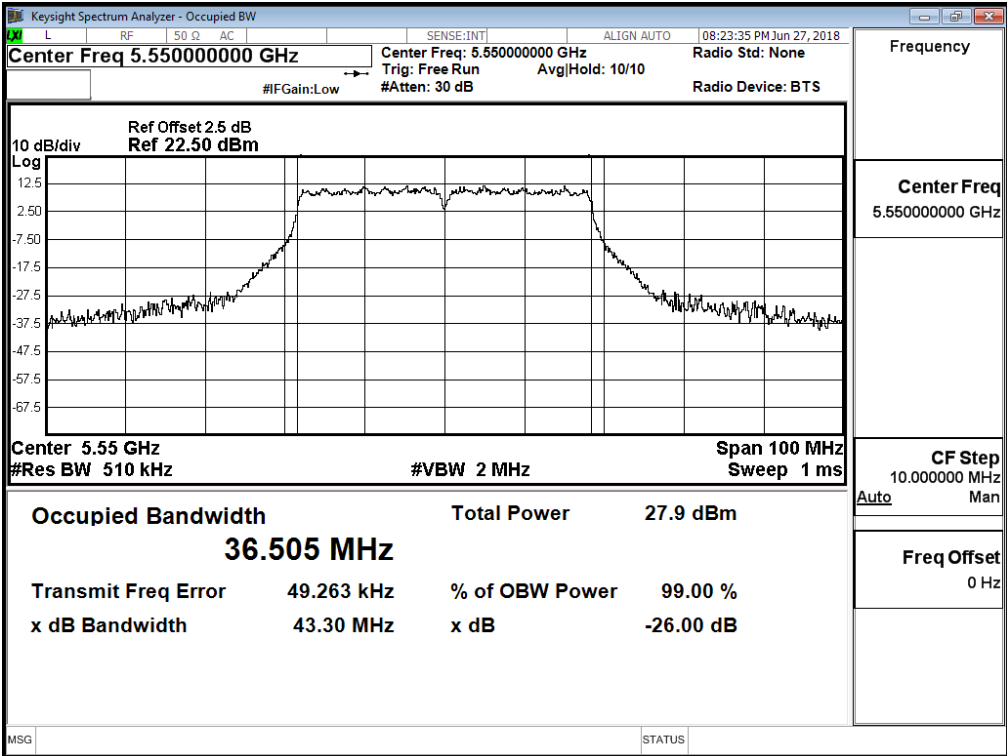
Channel 62 – Chain D



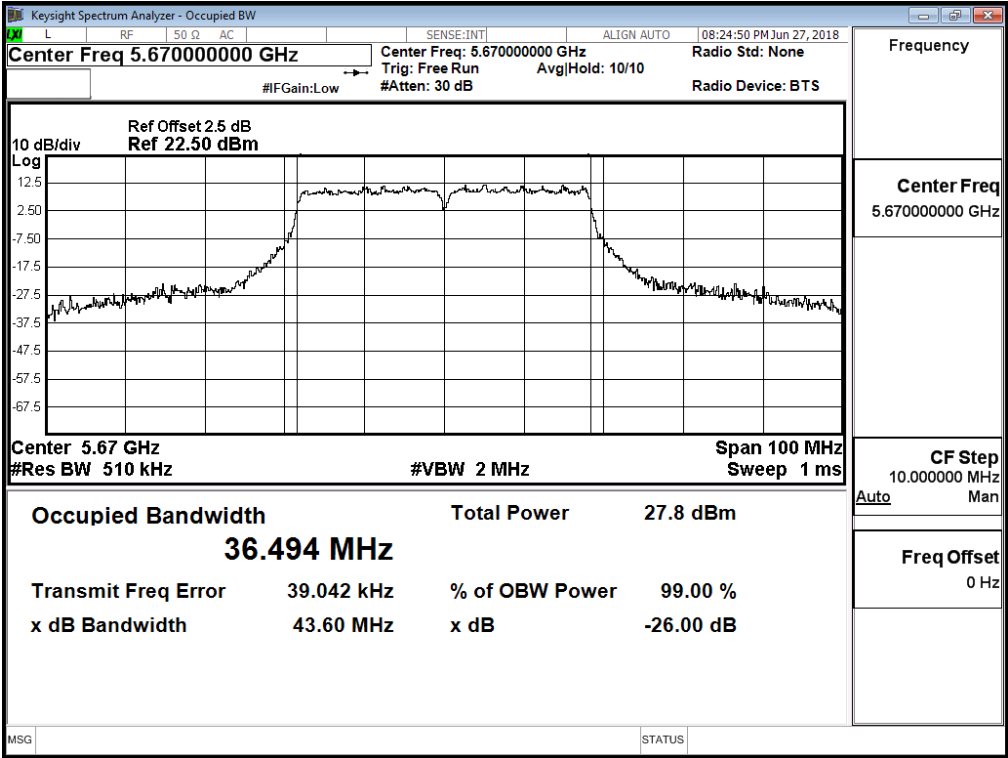
Channel 102 – Chain D



Channel 110 – Chain D



Channel 134 – Chain D



Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.7)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.86	13.8	13.72	13.67	13.6	13.55	13.48	13.41	13.35	<24dBm
144 (Band4)	5720	8.09	8	7.94	7.85	7.75	7.66	7.61	7.52	7.45	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.88	13.82	13.77	13.7	13.62	13.57	13.51	13.44	13.37	<24dBm
144 (Band4)	5720	8.11	8.03	7.97	7.9	7.81	7.71	7.62	7.56	7.49	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.78	13.73	13.64	13.54	13.47	13.39	13.32	13.24	13.15	<24dBm
144 (Band4)	5720	8.1	8.05	7.98	7.89	7.83	7.78	7.7	7.6	7.5	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.83	13.77	13.69	13.63	13.54	13.45	13.37	13.27	13.21	<24dBm
144 (Band4)	5720	8.15	8.08	8.01	7.94	7.86	7.81	7.73	7.64	7.55	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit		Result
								(dBm)	dBm+10log(BW)	
144(Band3)	5720	13.943	13.860	13.880	13.780	13.830	19.86	24	22.44	Pass
144(Band4)	5720	--	8.090	8.110	8.100	8.150	14.13	30	--	Pass

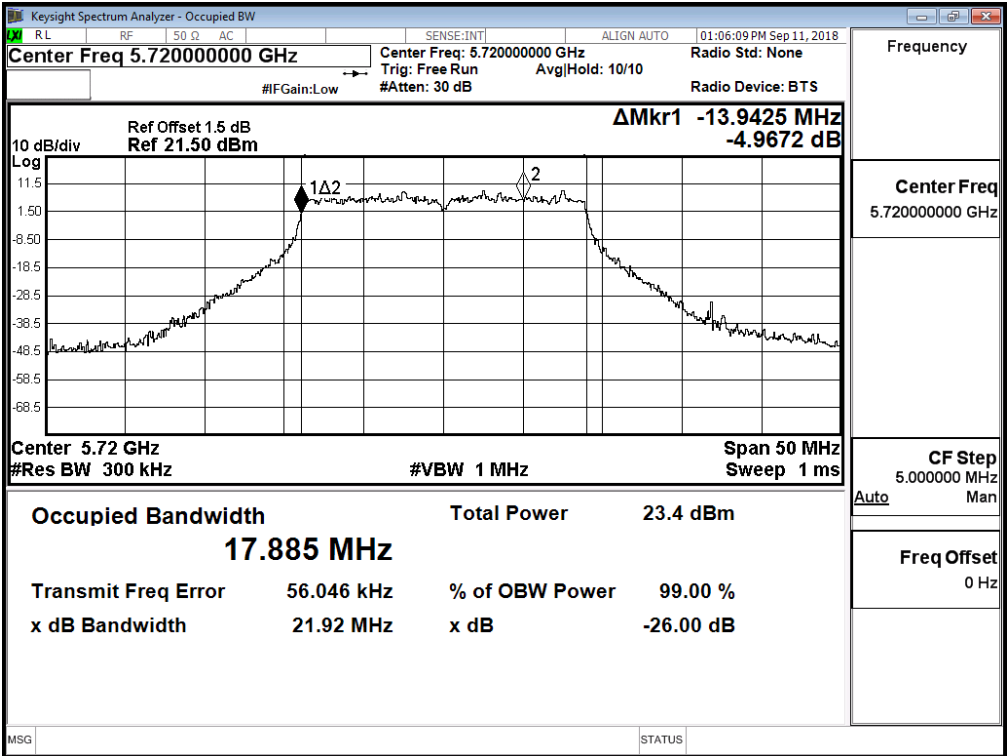
Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))
2. 26 dB Bandwidth is the bandwidth of chain A, chain B, chain C or chain D whichever is less bandwidth, output power limitation is more stringent.

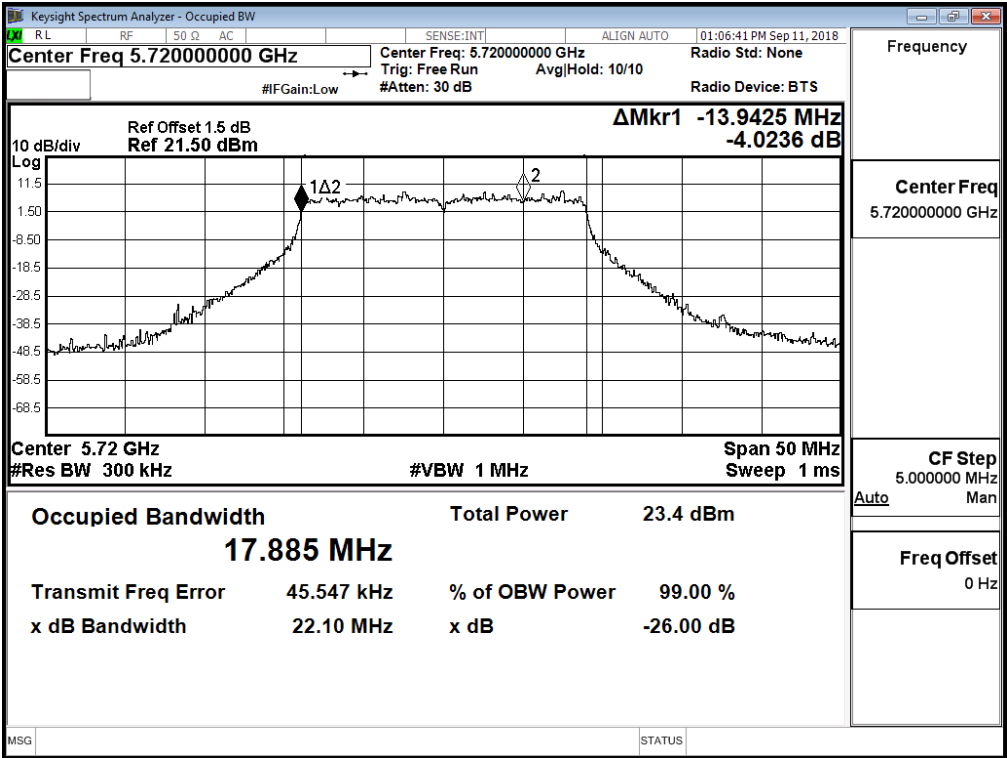
Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
144(Band3)	5720	7.680	7.660	7.400	7.440	13.62	Pass

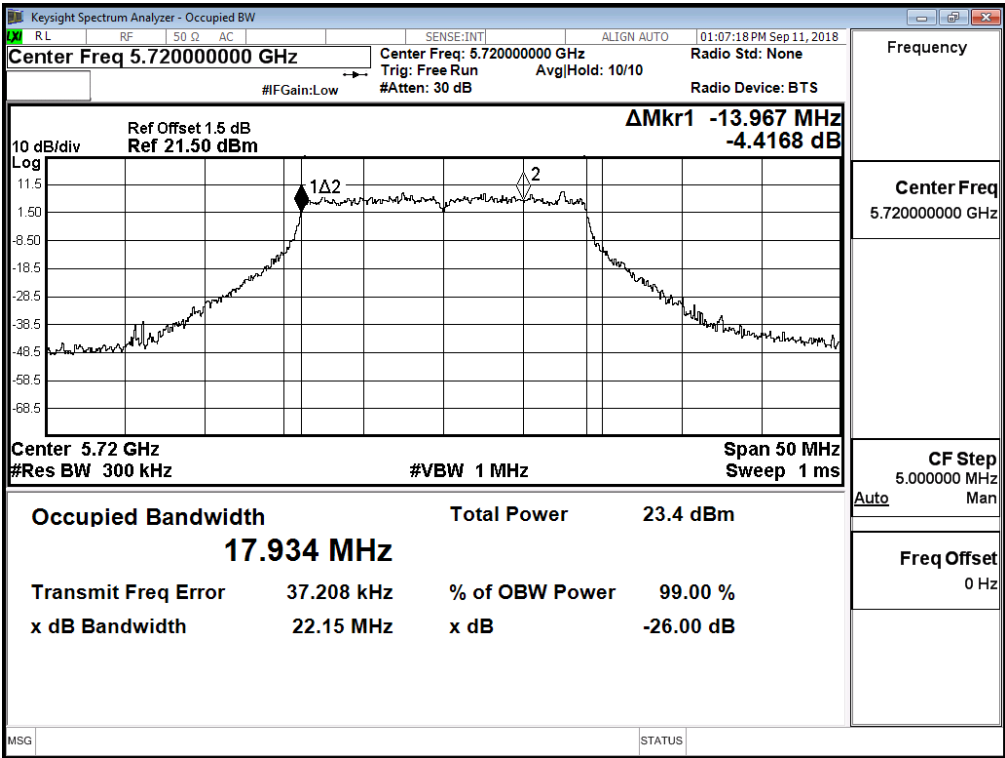
99% Bandwidth:
Channel 144 – Chain A



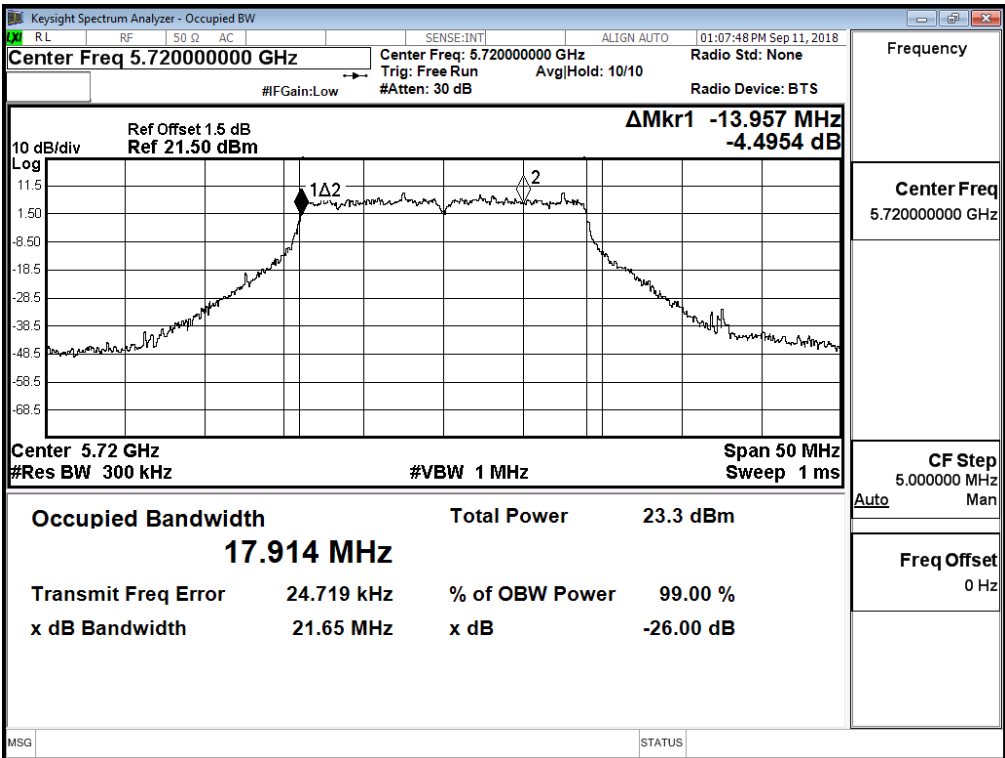
99% Bandwidth:
Channel 144 – Chain B



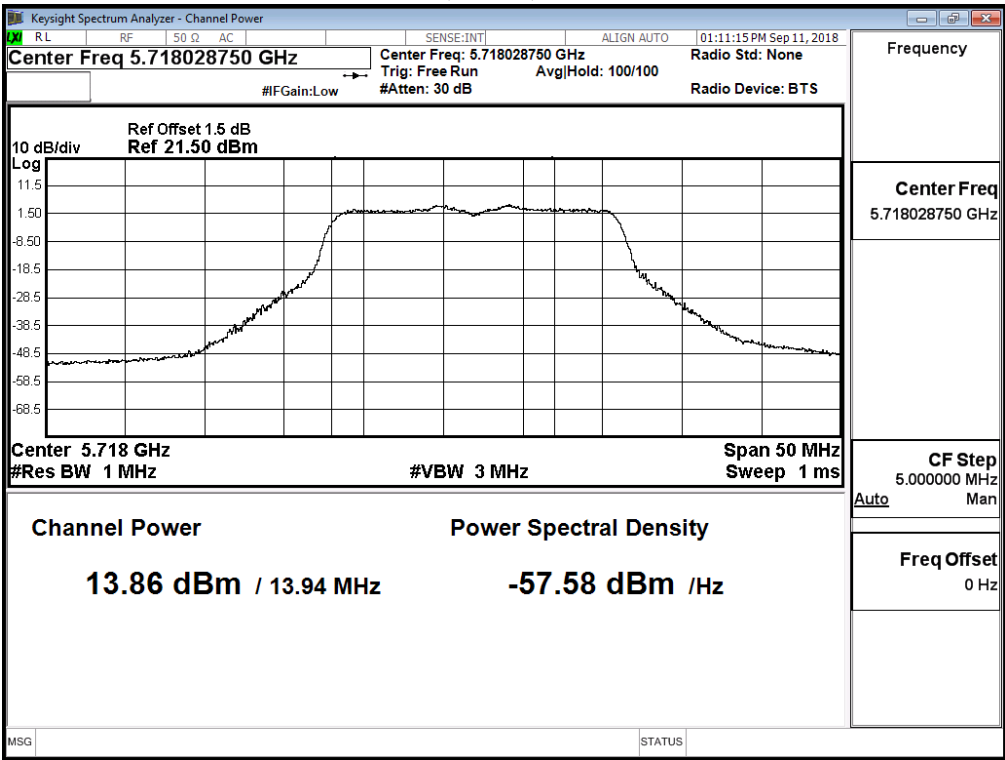
99% Bandwidth:
Channel 144 – Chain C



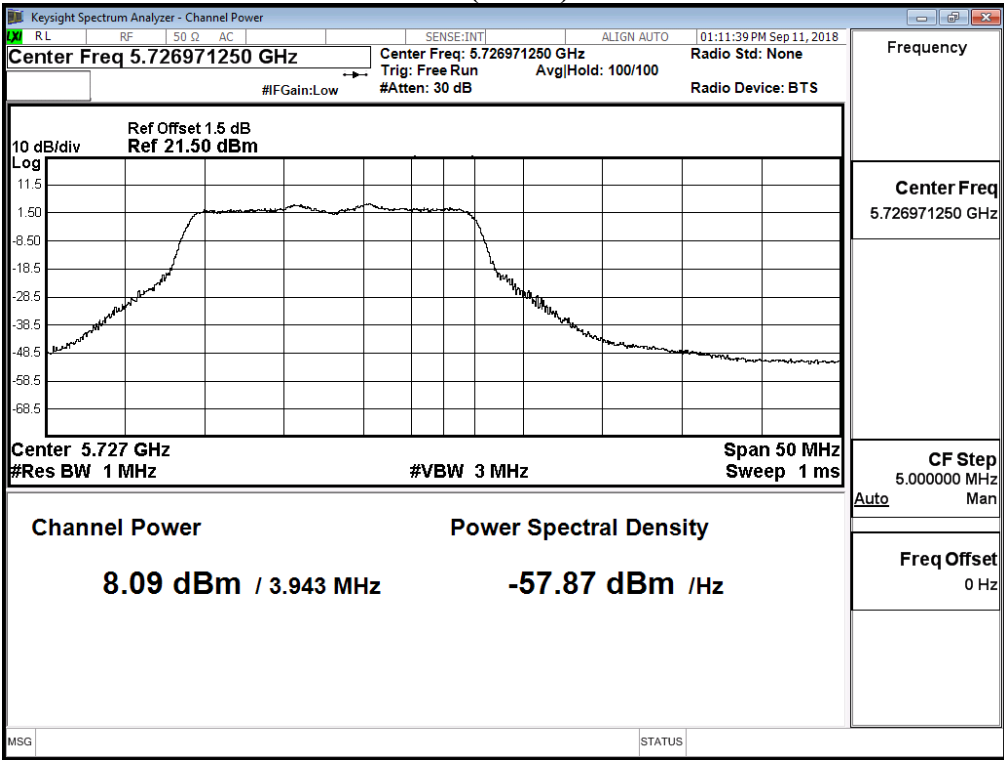
99% Bandwidth:
Channel 144 – Chain D

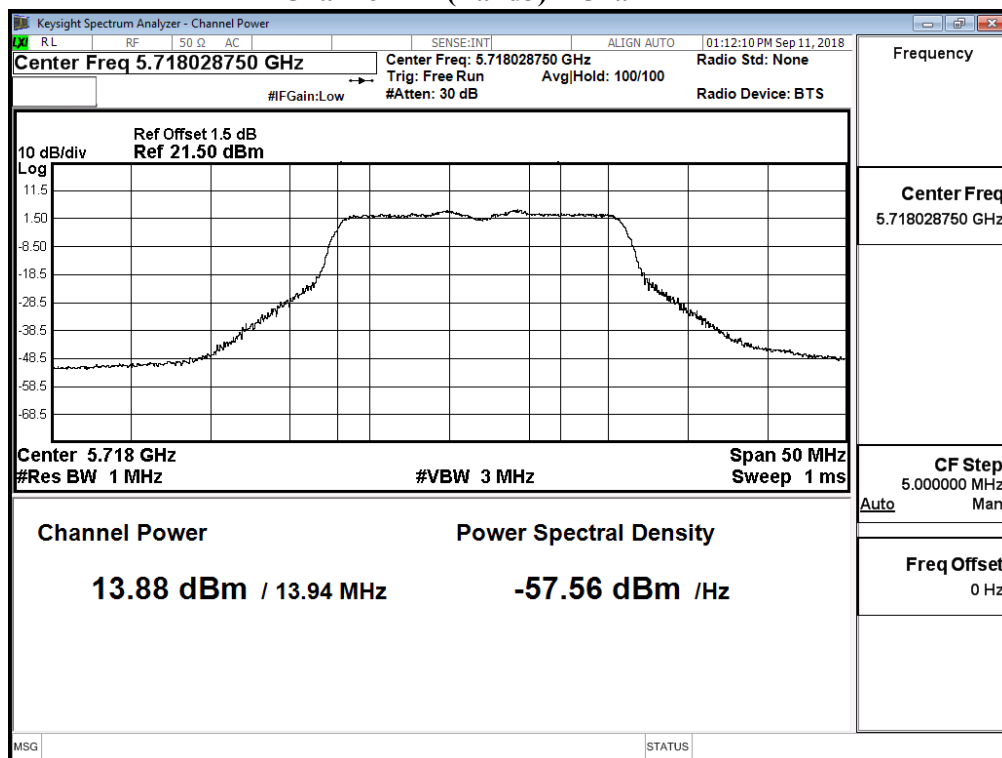
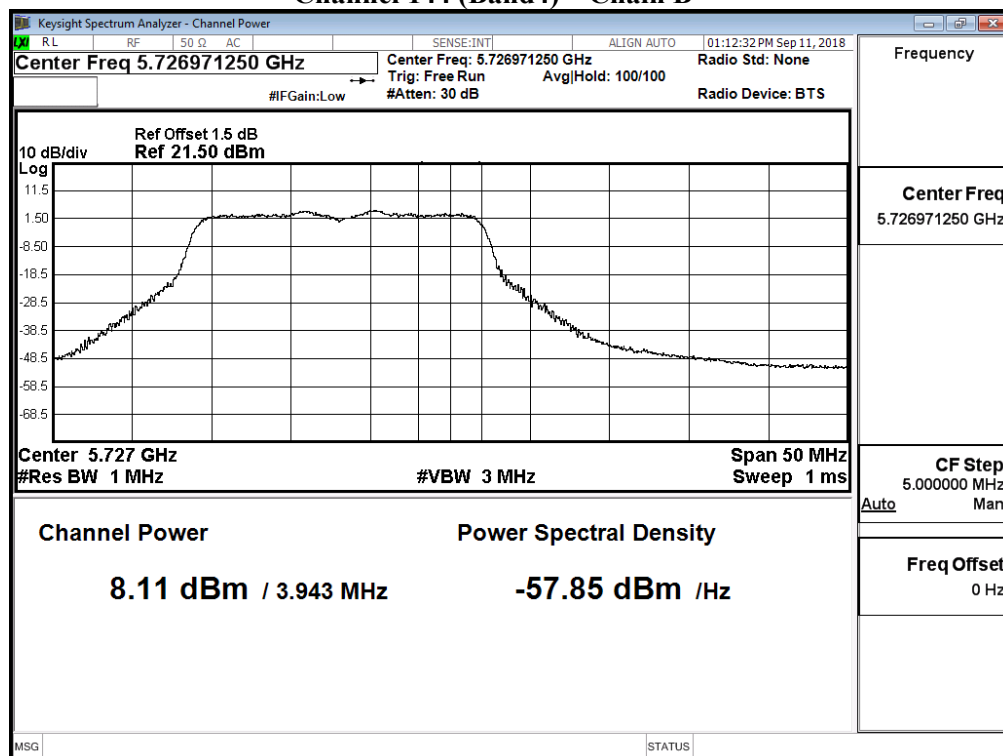


Maximum conducted output power:
Channel 144 (Band3) – Chain A

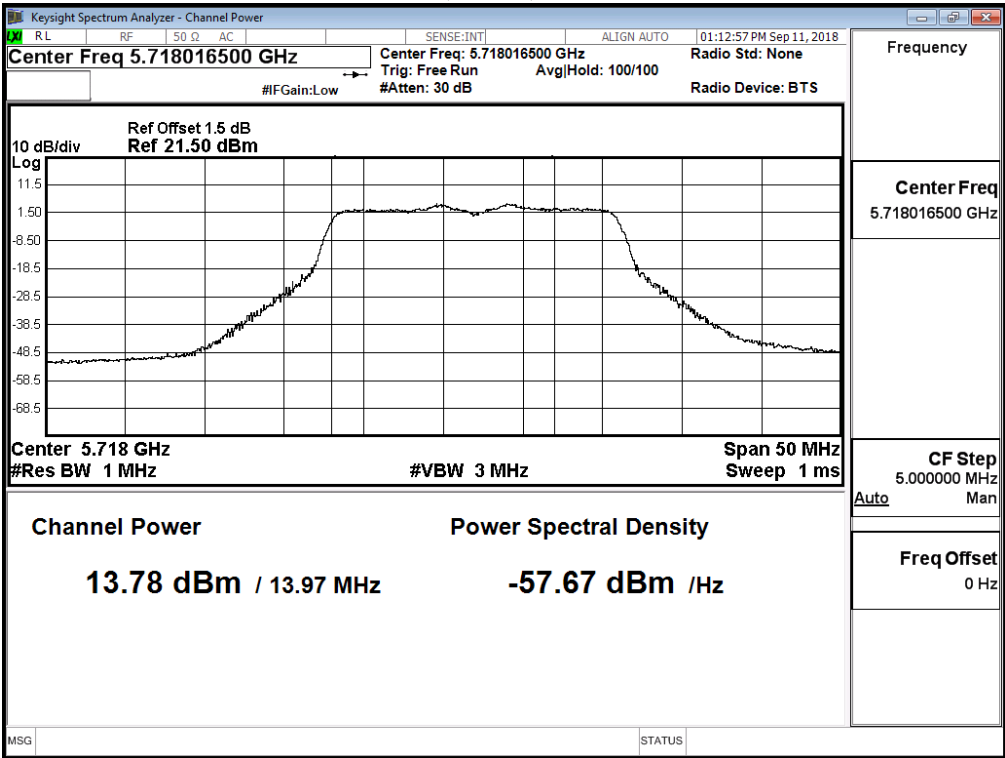


Channel 144 (Band4) – Chain A

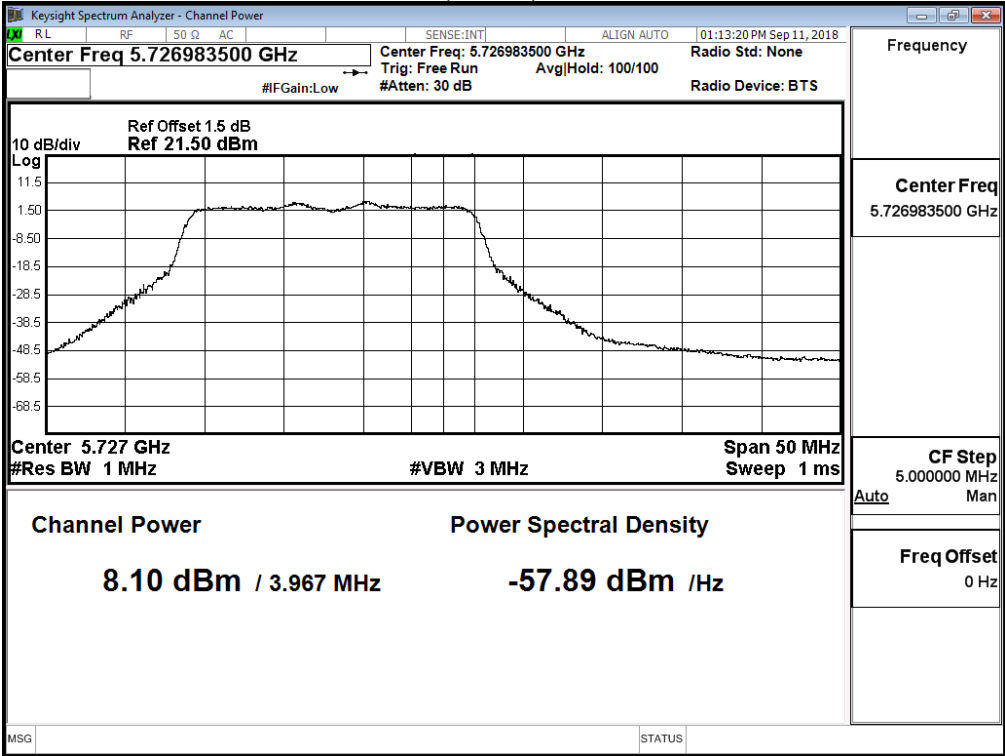


Maximum conducted output power:**Channel 144 (Band3) – Chain B****Channel 144 (Band4) – Chain B**

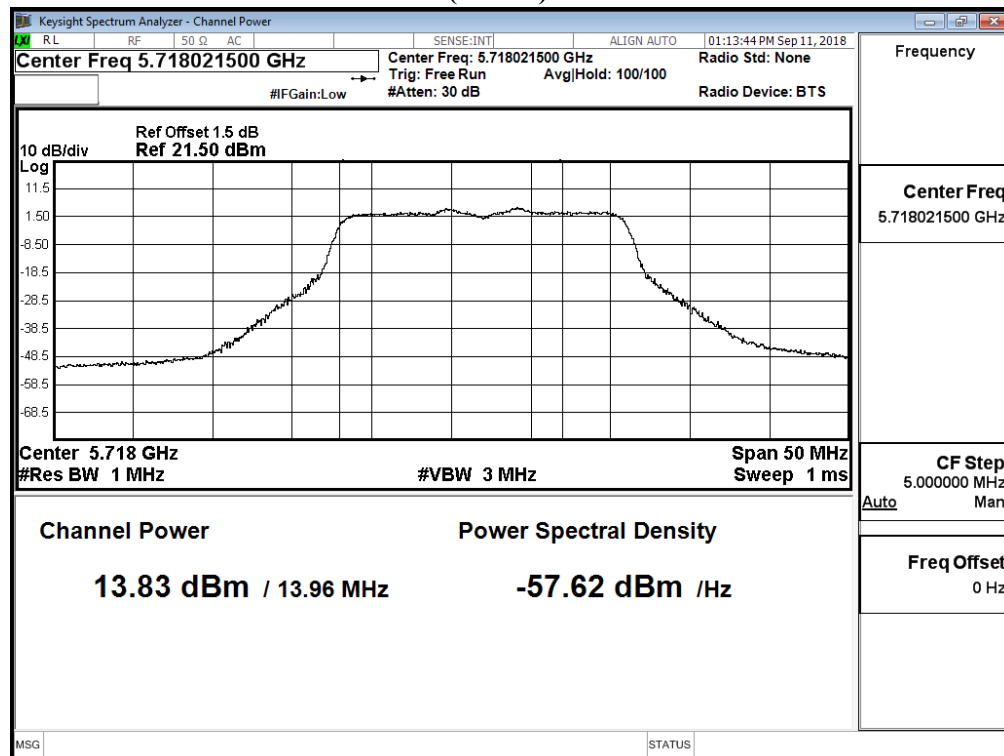
Maximum conducted output power:
Channel 144 (Band3) – Chain C



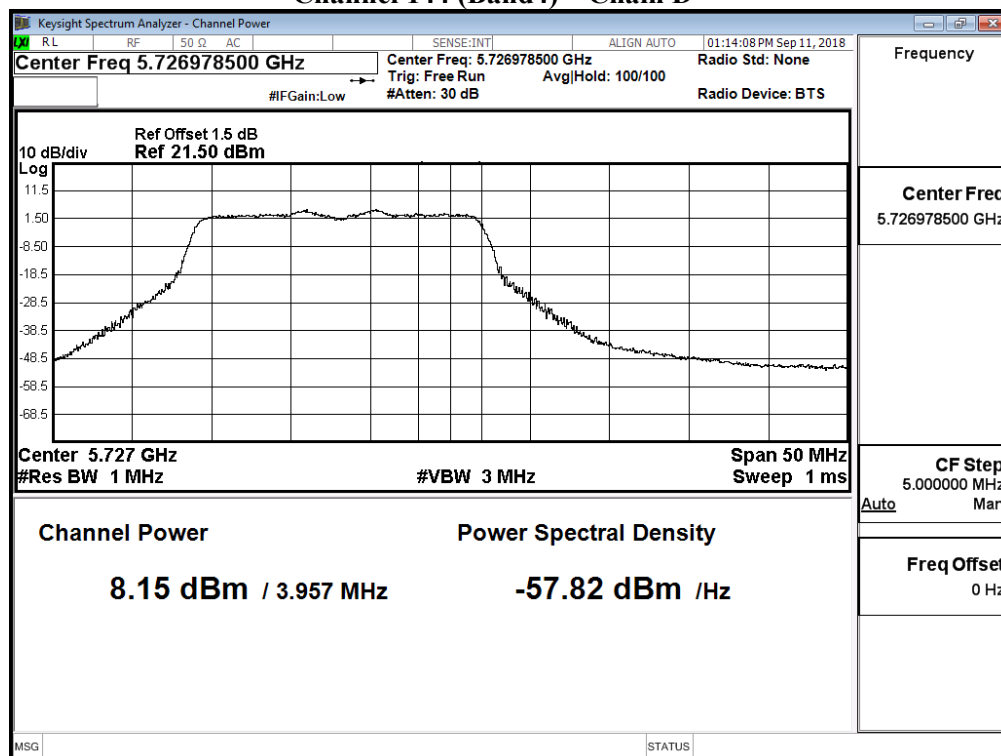
Channel 144 (Band4) – Chain C



Maximum conducted output power:
Channel 144 (Band3) – Chain D



Channel 144 (Band4) – Chain D



Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.7)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.27	17.18	17.12	17.05	16.97	16.89	16.8	16.71	16.64	16.54	<24dBm
142F(Band4)	5710	6.76	6.66	6.59	6.49	6.44	6.34	6.24	6.14	6.06	5.96	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.3	17.2	17.12	17.06	16.98	16.92	16.86	16.76	16.69	16.62	<24dBm
142F(Band4)	5710	6.88	6.81	6.75	6.67	6.61	6.52	6.44	6.34	6.27	6.2	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.26	17.16	17.07	17	16.95	16.86	16.76	16.7	16.63	16.58	<24dBm
142F(Band4)	5710	6.83	6.75	6.65	6.59	6.5	6.4	6.35	6.29	6.23	6.18	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.34	17.26	17.17	17.12	17.03	16.93	16.85	16.76	16.69	16.61	<24dBm
142F(Band4)	5710	6.87	6.8	6.71	6.66	6.58	6.5	6.41	6.34	6.24	6.15	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit		Result
								(dBm)	$\text{dBm} + 10\log(\text{BW})$	
142F(Band3)	5710	33.212	17.270	17.300	17.26	17.34	23.31	24	26.21	Pass
142F(Band4)	5710	--	6.760	6.880	6.83	6.87	12.86	30	--	Pass

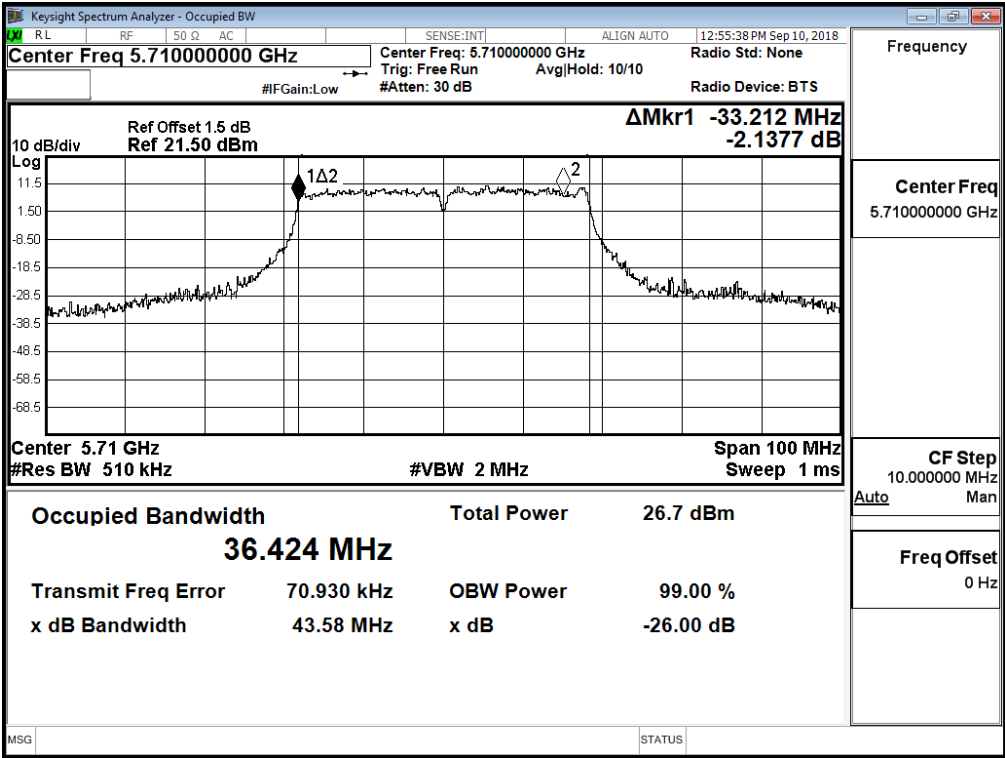
Note:

1. Output Power (dBm) = $10 \cdot \text{LOG} (\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)})$
2. 26 dB Bandwidth is the bandwidth of chain A, chain B, chain C or chain D whichever is less bandwidth, output power limitation is more stringent.

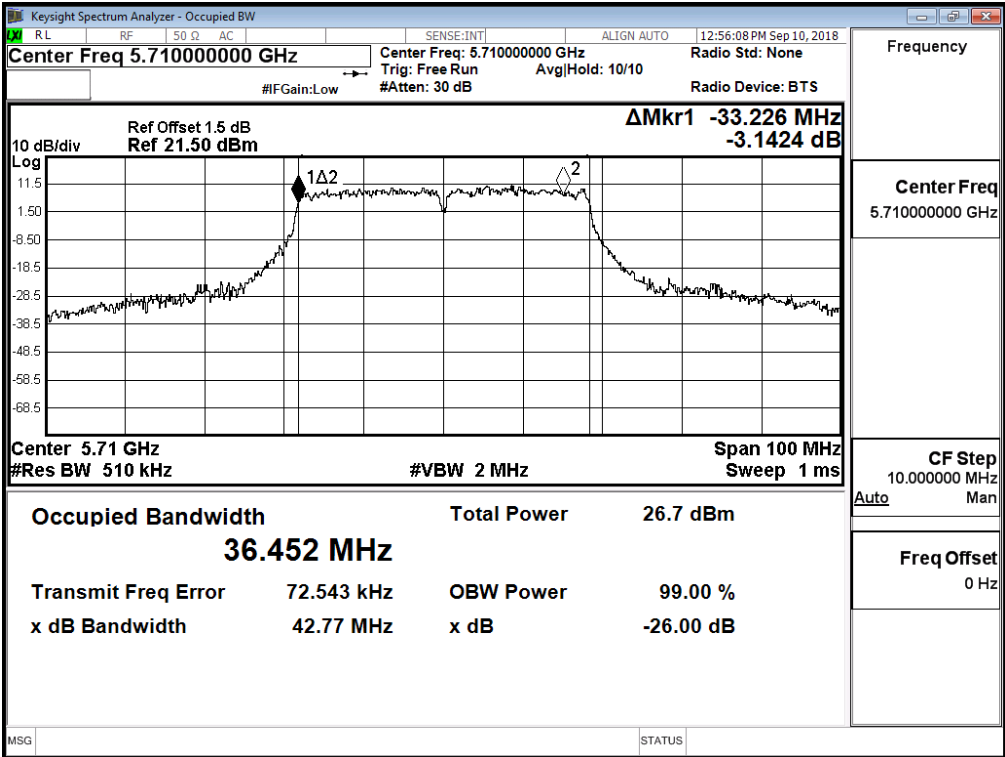
Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
142(Band3)	5710	11.050	10.910	11.08	11.06	17.05	Pass

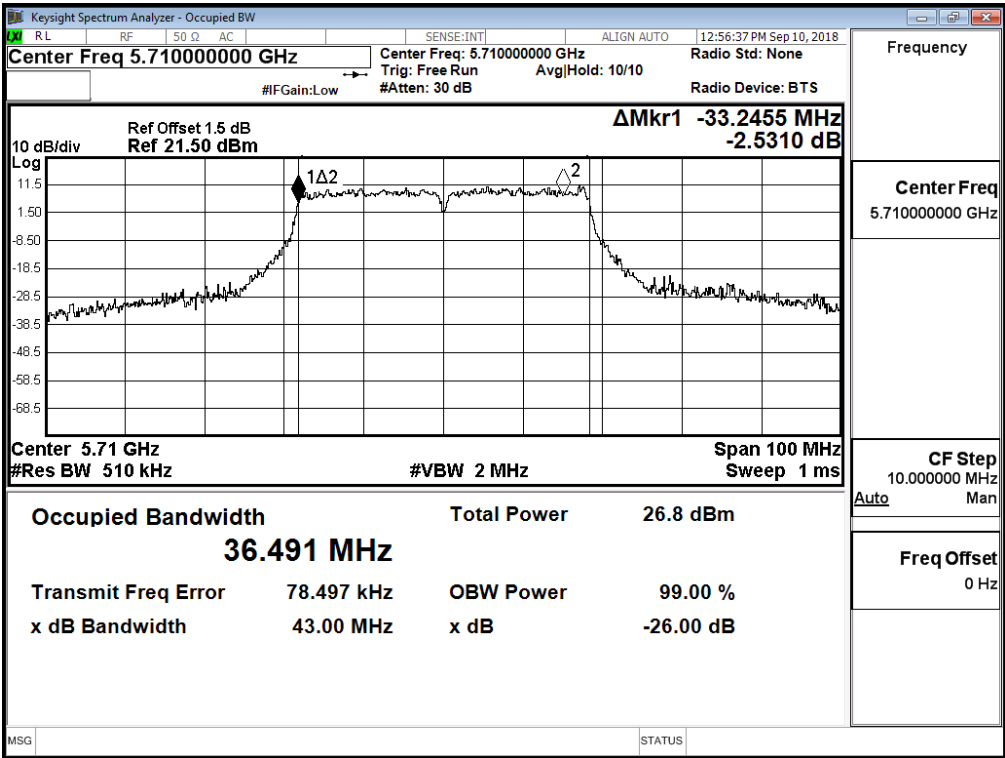
99% Bandwidth:
Channel 142 – Chain A



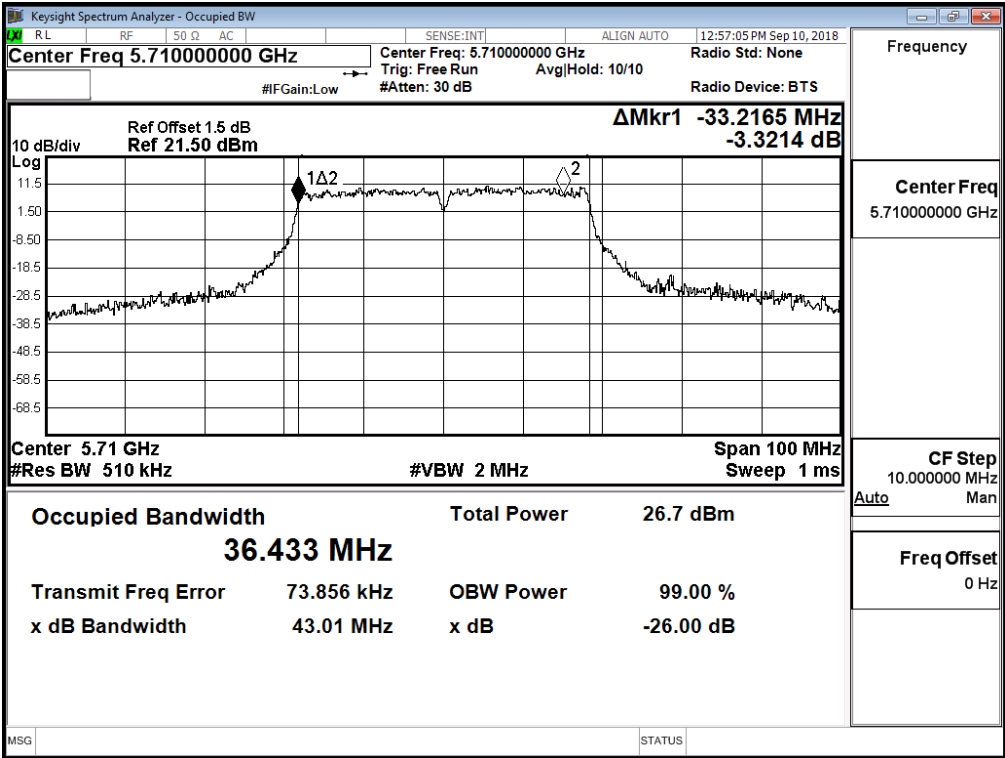
99% Bandwidth:
Channel 142 – Chain B



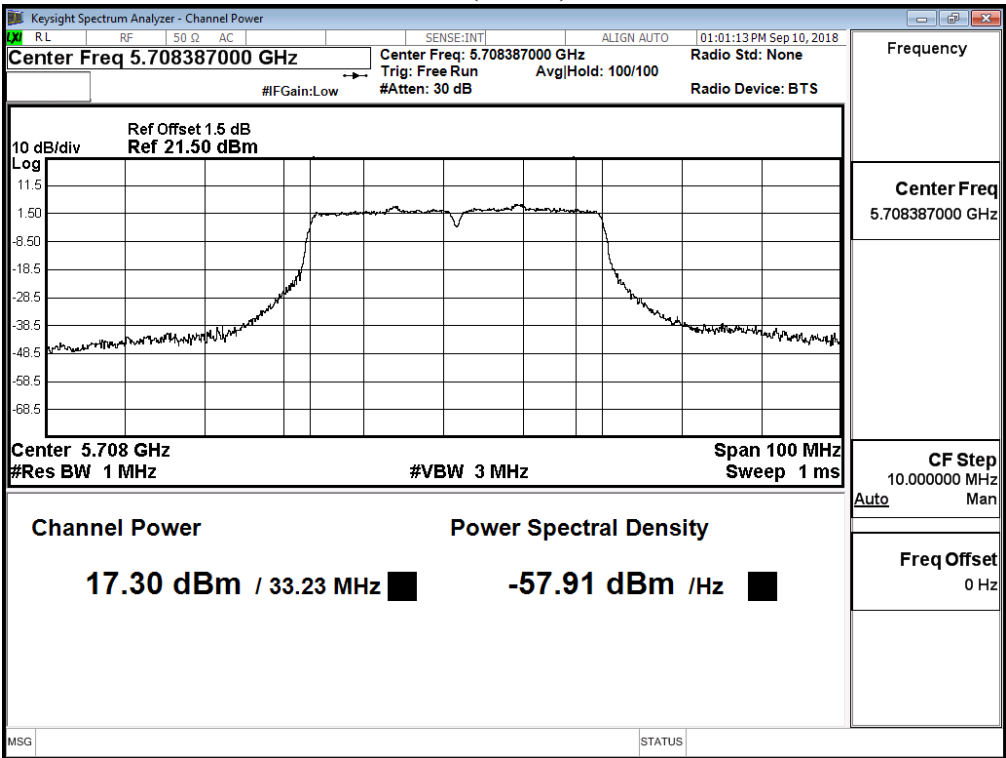
99% Bandwidth:
Channel 142 – Chain C



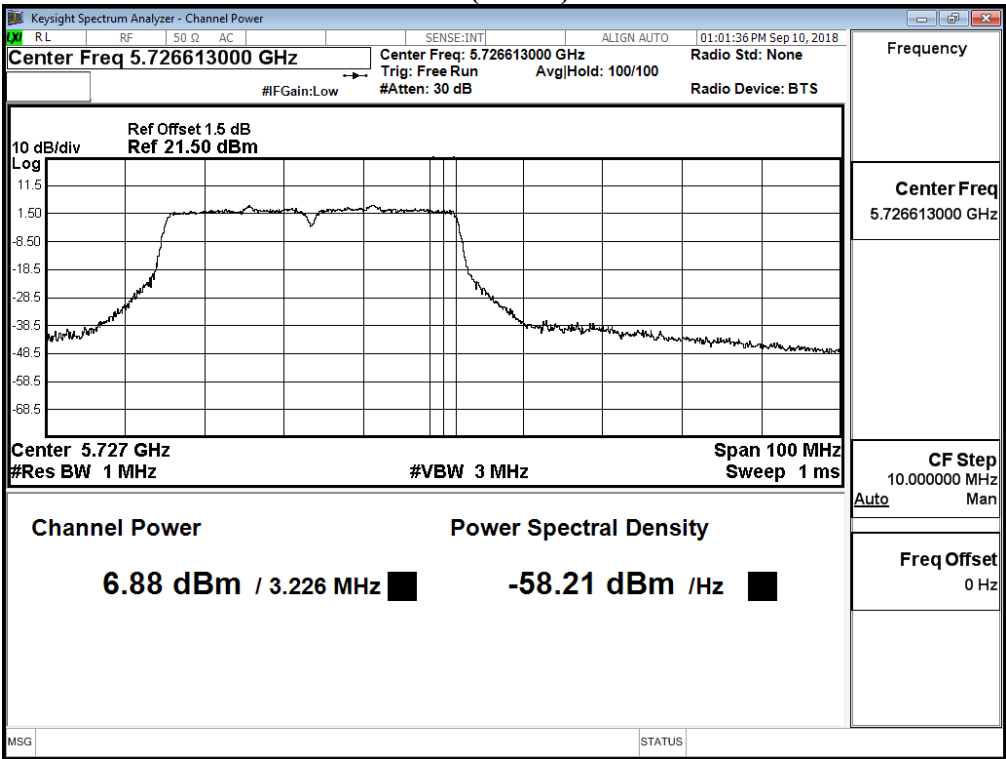
99% Bandwidth:
Channel 142 – Chain D



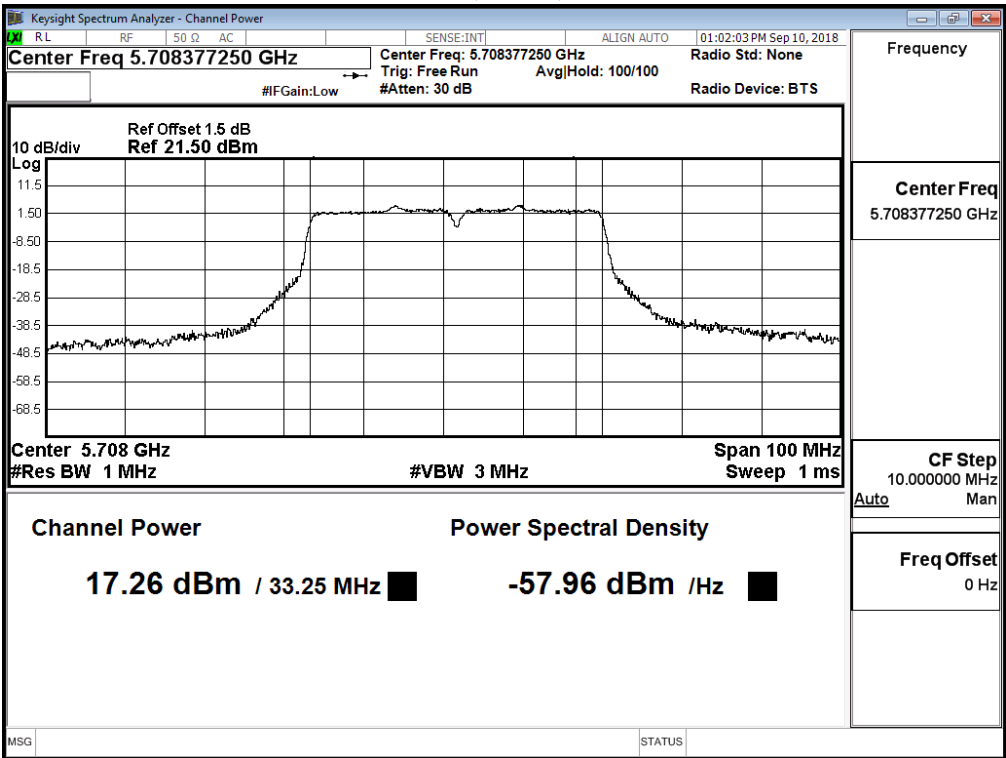
Maximum conducted output power:
Channel 142 (Band3) – Chain B



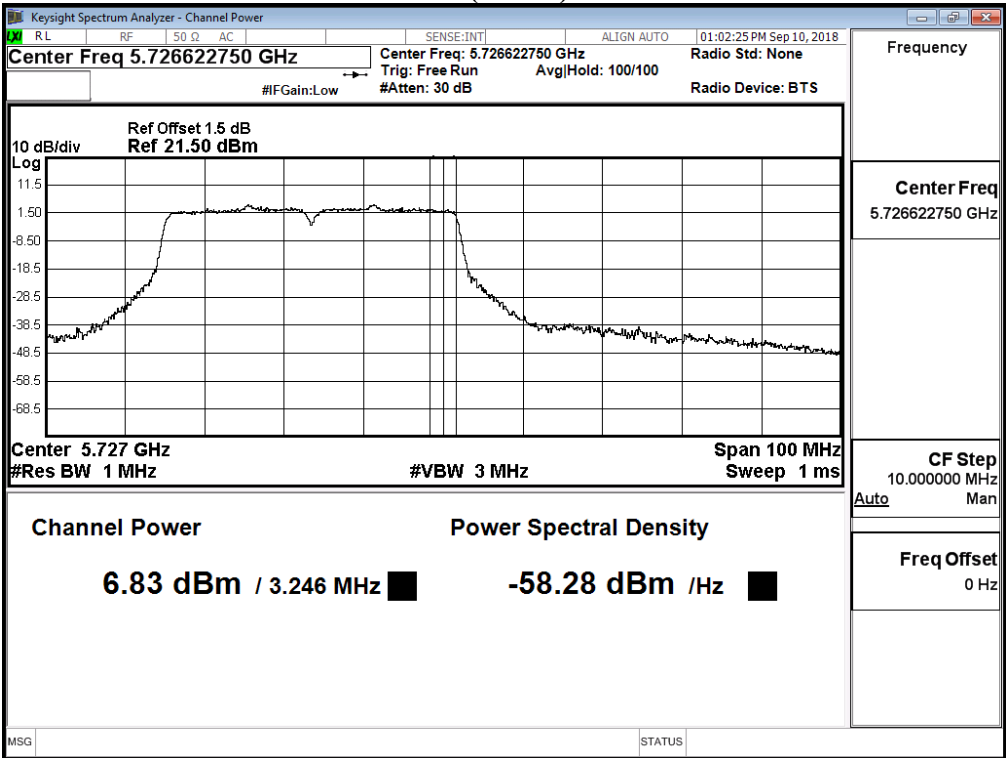
Channel 142 (Band4) – Chain B



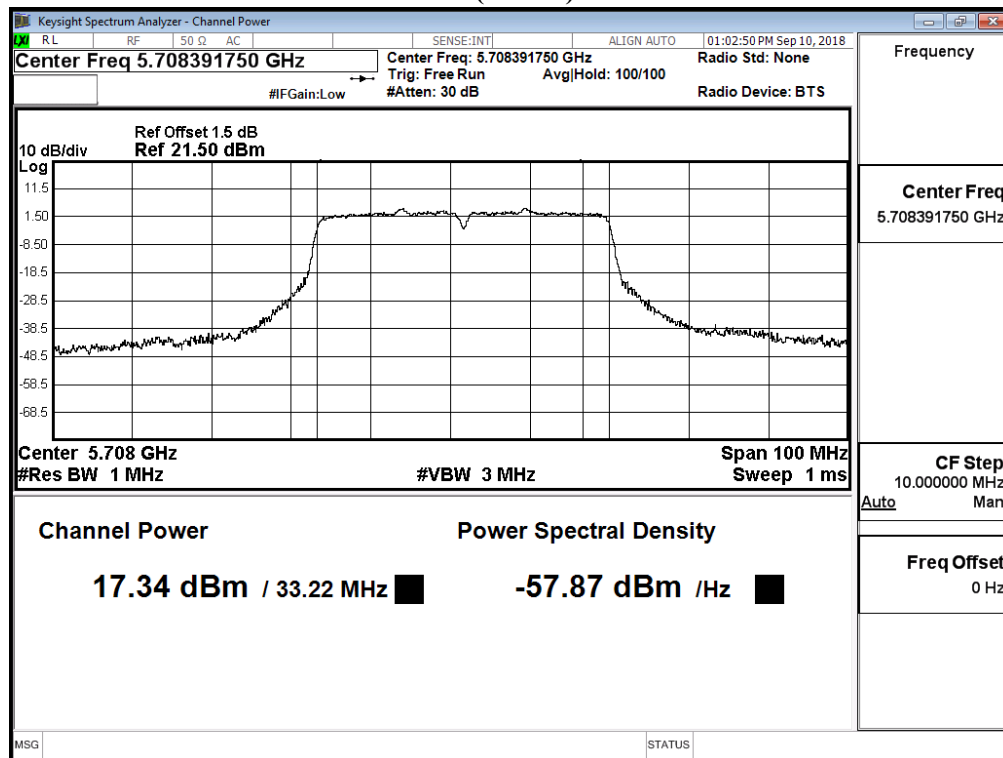
Maximum conducted output power:
Channel 142 (Band3) – Chain C



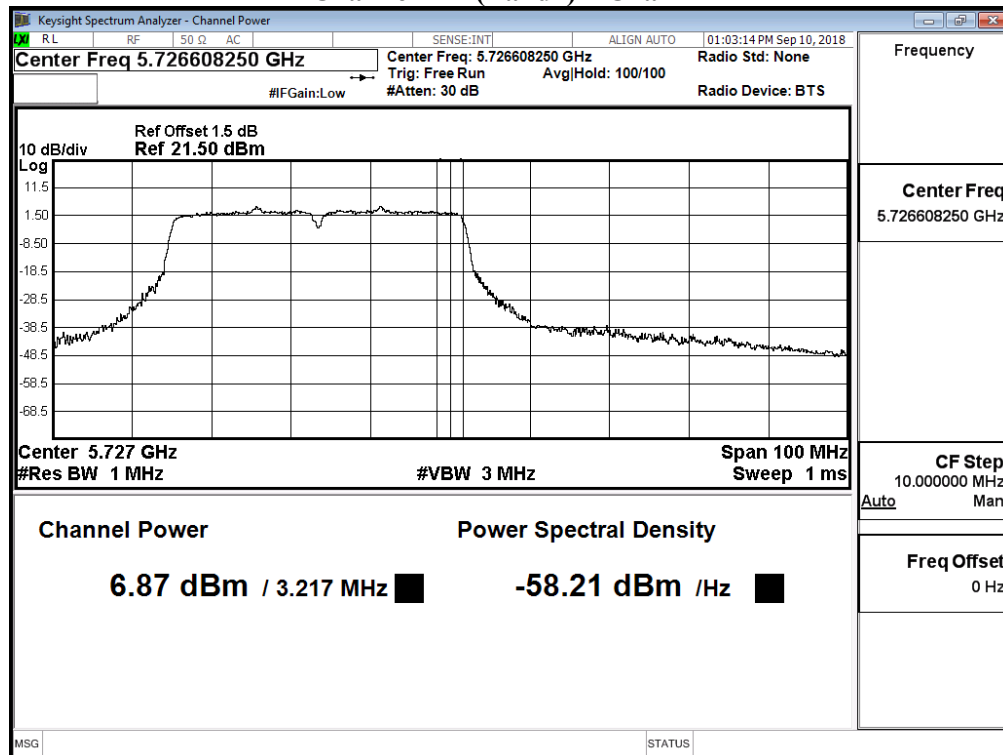
Channel 142 (Band4) – Chain C



Maximum conducted output power:
Channel 142 (Band3) – Chain D



Channel 142 (Band4) – Chain D



Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.7)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.71	17.64	17.54	17.47	17.42	17.33	17.23	17.16	17.11	17.02	<24dBm
58	5290	17.92	17.86	17.77	17.72	17.67	17.61	17.55	17.50	17.44	17.39	<24dBm
106	5530	17.72	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.56	17.51	17.46	17.39	17.32	17.23	17.14	17.08	17.03	16.95	<24dBm
138(Band3)	5690	15.52	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	2.08	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.8	20.75	20.7	20.65	20.56	20.47	20.40	20.32	20.27	20.19	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.82	17.75	17.7	17.65	17.60	17.53	17.48	17.43	17.34	17.29	<24dBm
58	5290	17.93	17.87	17.81	17.74	17.66	17.57	17.49	17.39	17.30	17.22	<24dBm
106	5530	17.34	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.02	16.94	16.85	16.75	16.69	16.61	16.51	16.44	16.38	16.29	<24dBm
138(Band3)	5690	18.11	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	5.01	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.84	20.78	20.73	20.63	20.55	20.48	20.42	20.34	20.25	20.15	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.61	17.55	17.5	17.42	17.35	17.26	17.21	17.14	17.06	16.98	<24dBm
58	5290	17.9	17.81	17.74	17.65	17.57	17.52	17.46	17.40	17.30	17.25	<24dBm
106	5530	17.05	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.23	17.16	17.11	17.06	17.00	16.90	16.82	16.75	16.67	16.61	<24dBm
138(Band3)	5690	16.39	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	2.07	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	19.97	19.89	19.8	19.70	19.63	19.54	19.47	19.42	19.33	19.27	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.22	17.12	17.06	16.97	16.90	16.84	16.78	16.73	16.68	16.6	<24dBm
58	5290	17.54	17.46	17.36	17.31	17.23	17.15	17.07	17.00	16.92	16.85	<24dBm
106	5530	18.04	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	18.56	18.5	18.4	18.33	18.27	18.19	18.09	18.00	17.93	17.84	<24dBm
138(Band3)	5690	18.38	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	4.32	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.89	20.8	20.75	20.68	20.59	20.52	20.47	20.41	20.35	20.30	<30dBm

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

**Maximum conducted output power Measurement
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit		Result
								(dBm)	dBm+10log(BW)	
42	5210	--	17.710	17.820	17.610	17.220	23.62	24	--	Pass
58	5290	75.652	17.920	17.930	17.900	17.540	23.85	24	29.79	Pass
106	5530	75.683	17.720	17.340	17.050	18.040	23.57	24	29.79	Pass
122	5610	75.790	17.560	17.020	17.230	18.560	23.65	24	29.80	Pass
138	5690	72.828	15.520	18.110	16.390	18.380	23.28	24	29.62	Pass
138ac80(Band4)	5690	2.828	2.080	5.010	2.070	4.320	9.59	30	15.51	Pass
155	5775	--	20.800	20.840	19.970	20.890	26.66	30	--	Pass

Note:

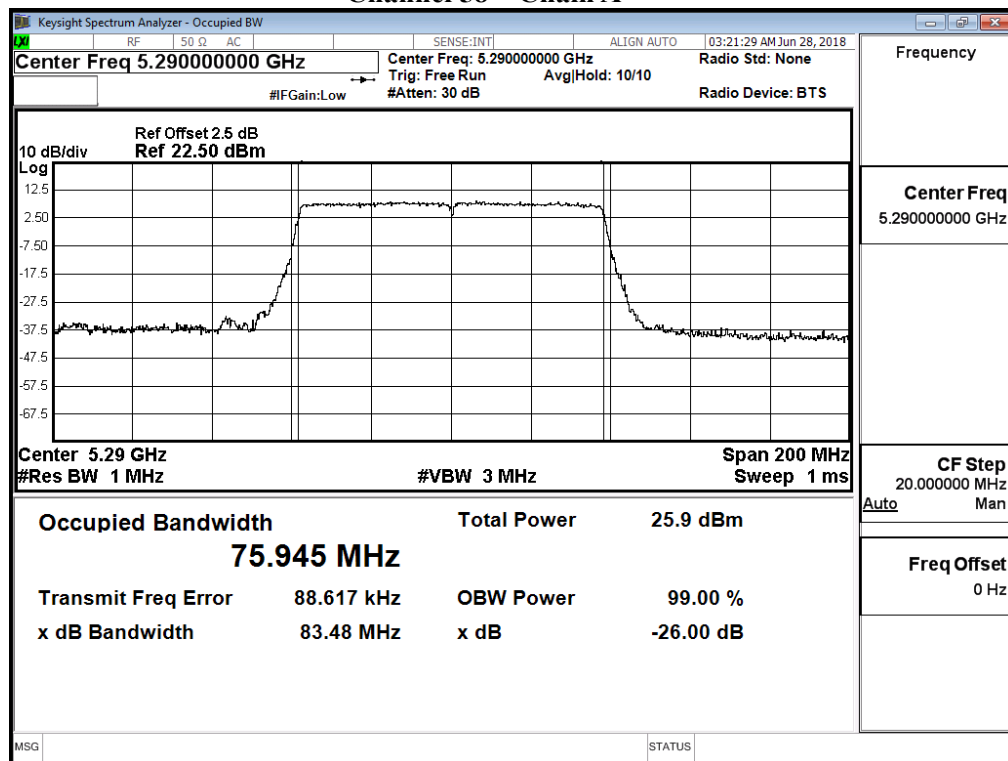
1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))
2. 26 dB Bandwidth is the bandwidth of chain A, chain B, chain C or chain D whichever is less bandwidth, output power limitation is more stringent.

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

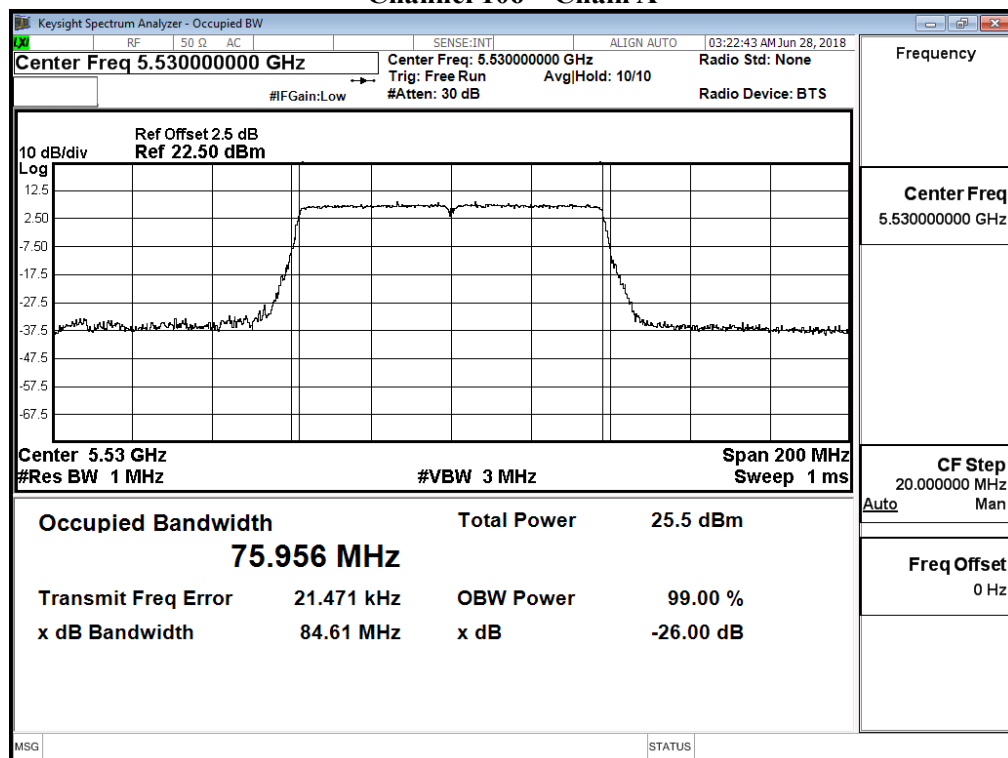
Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
58	5290	11.710	11.610	11.770	11.160	17.59	Pass
106	5530	11.340	11.210	10.660	11.910	17.32	Pass
122	5610	11.270	10.680	11.050	12.280	17.38	Pass
138	5690	9.140	11.720	10.270	12.000	16.95	Pass

99% Bandwidth:

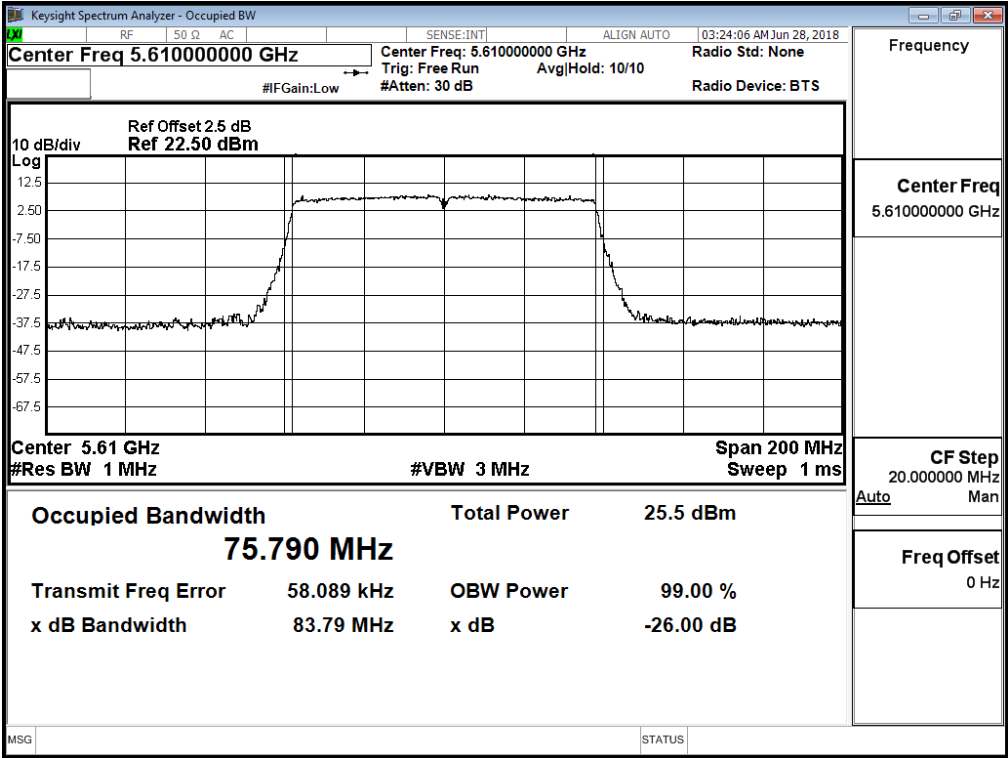
Channel 58 – Chain A



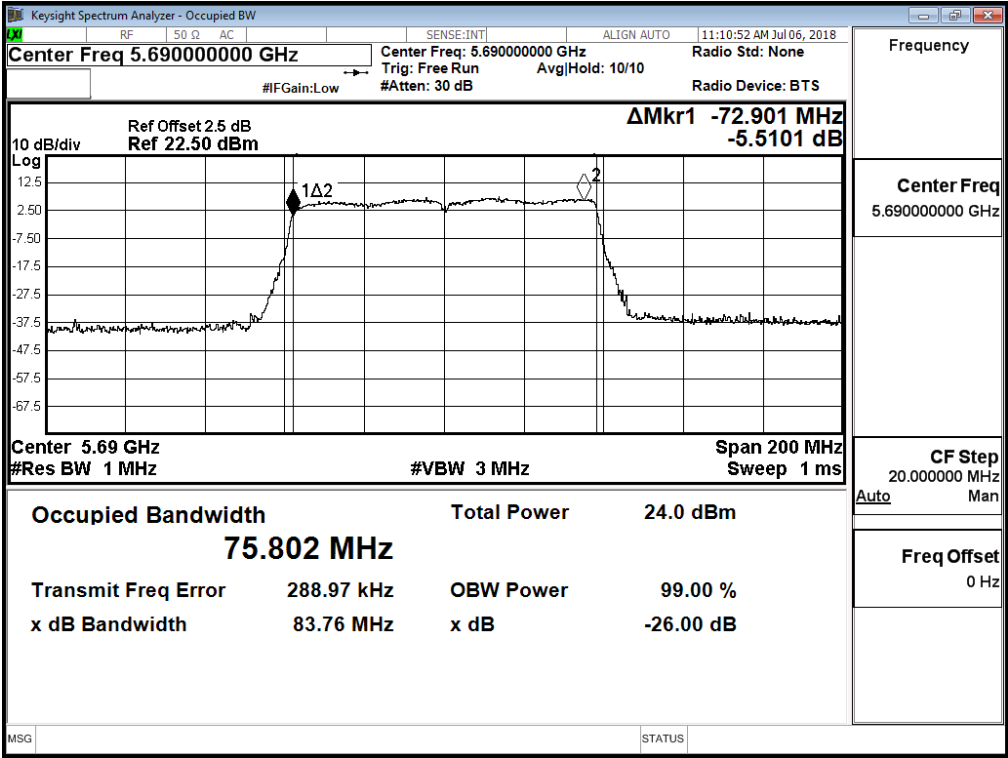
Channel 106 – Chain A



Channel 122 – Chain A

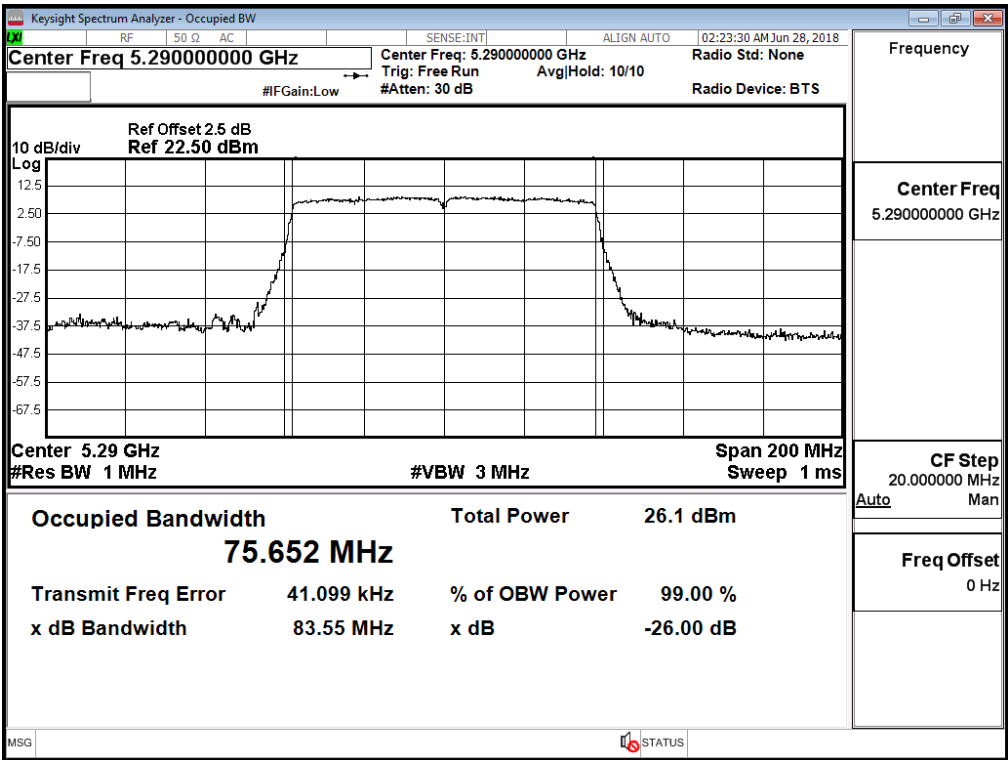


Channel 138 – Chain A

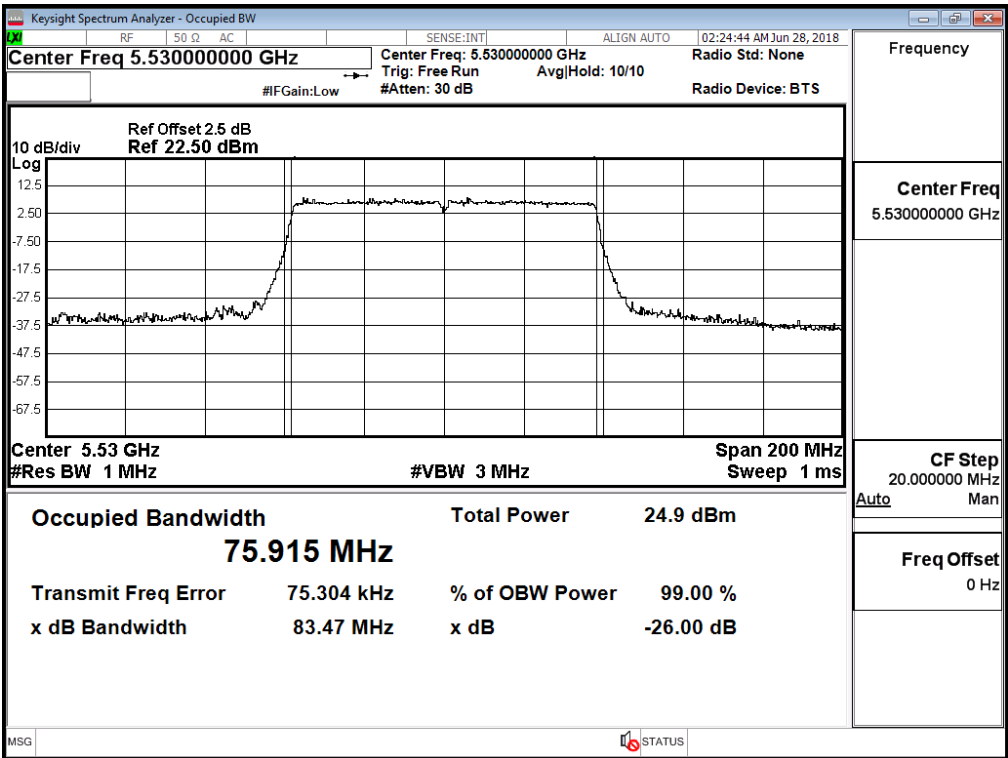


99% Bandwidth:

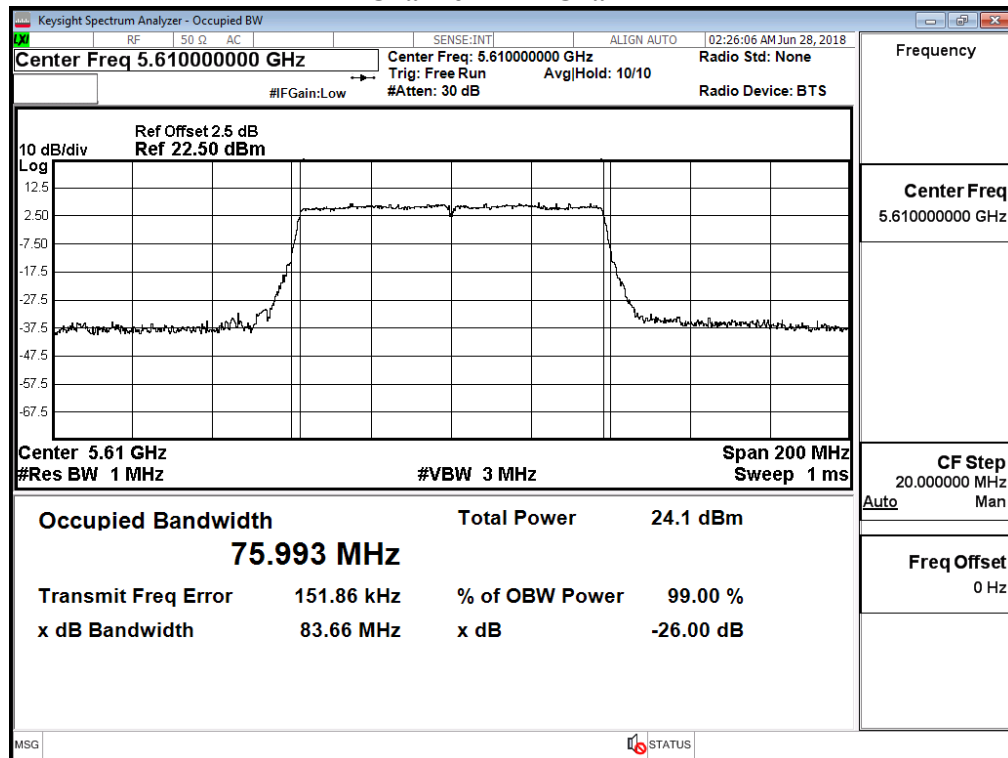
Channel 58 – Chain B



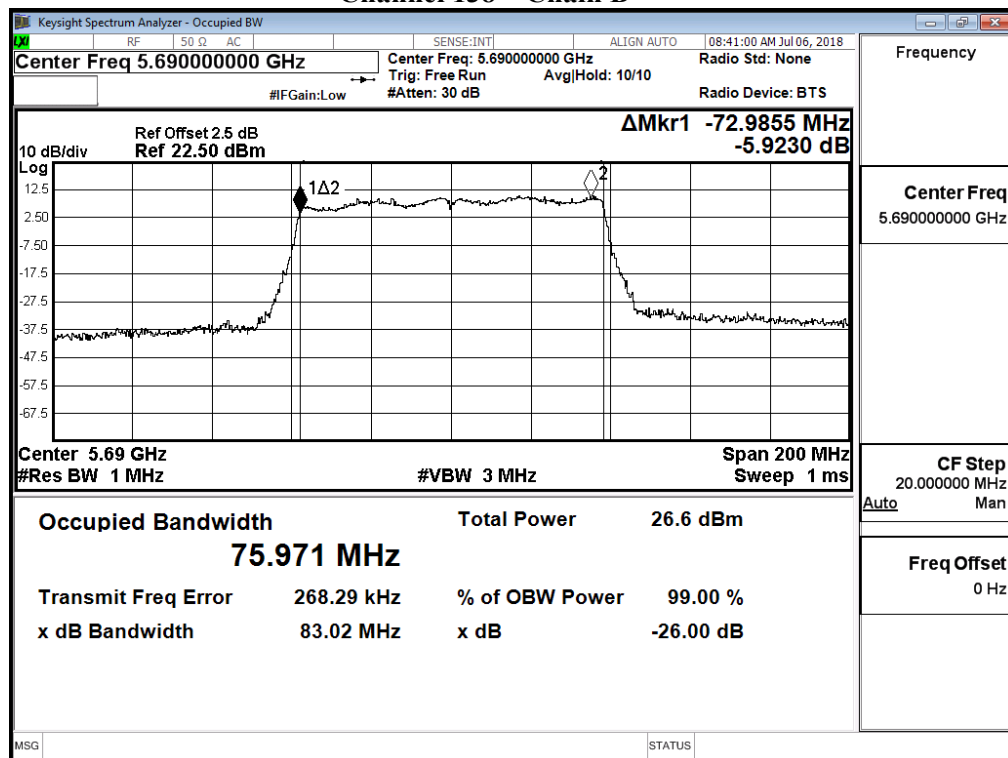
Channel 106 – Chain B



Channel 122 – Chain B

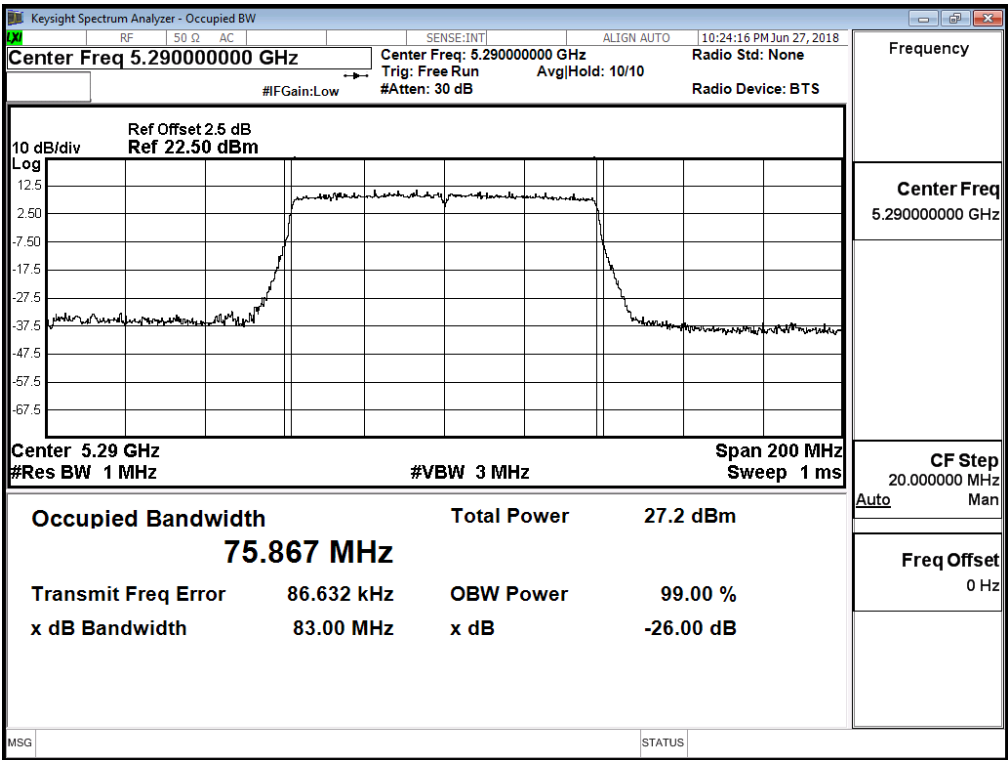


Channel 138 – Chain B

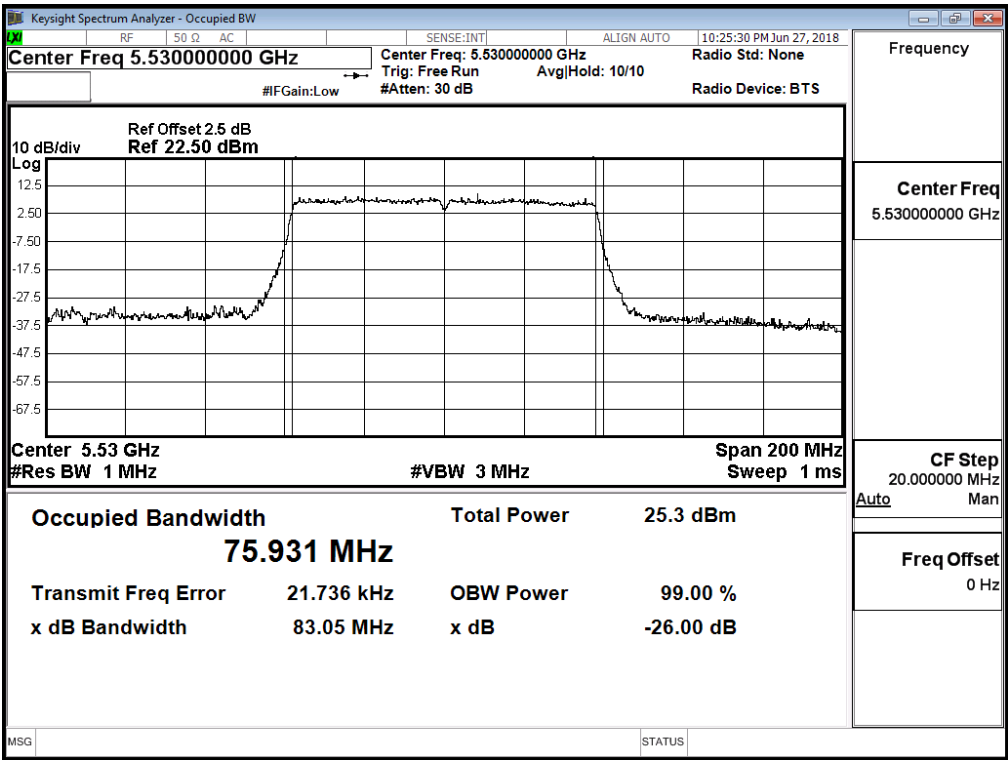


99% Bandwidth:

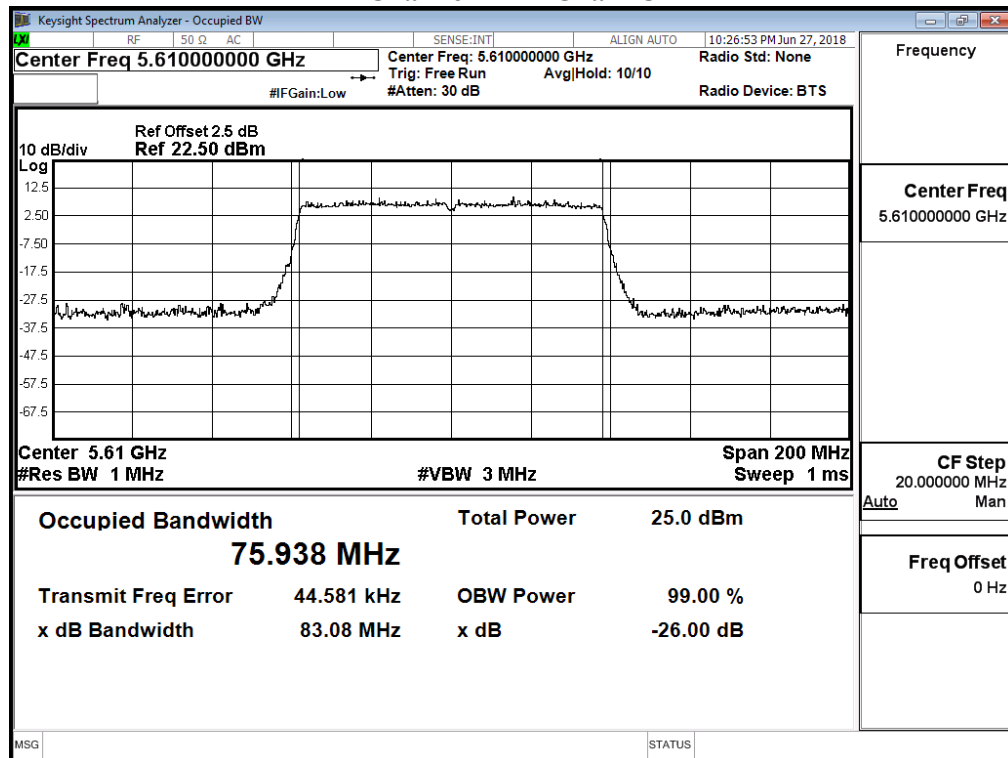
Channel 58 – Chain C



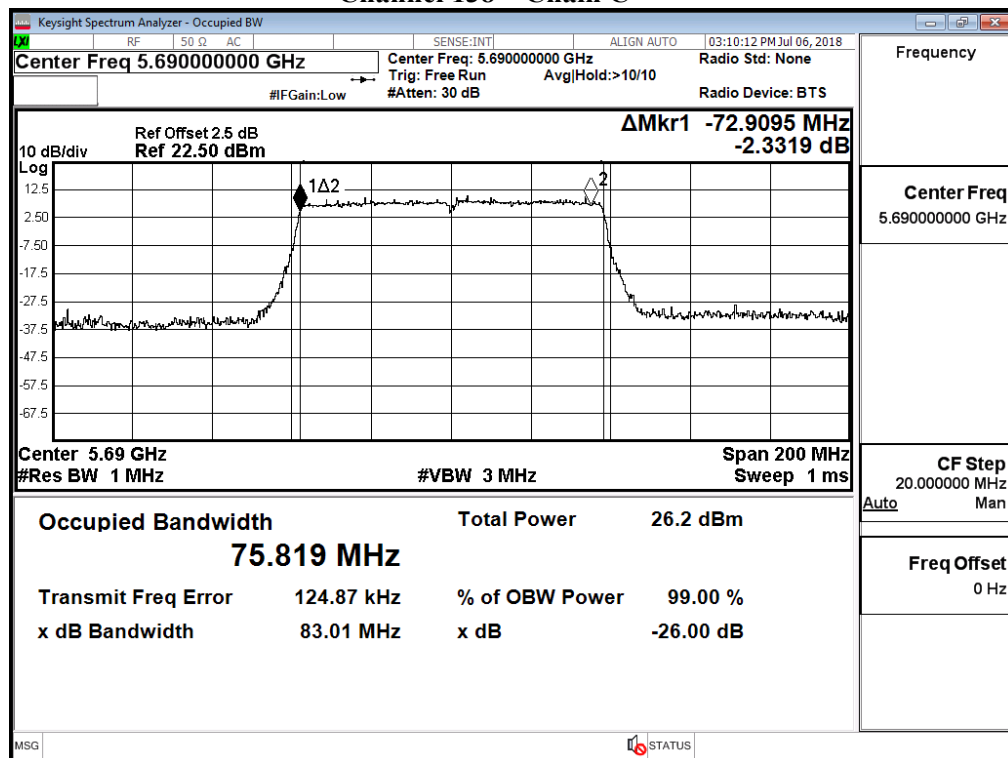
Channel 106 – Chain C



Channel 122 – Chain C

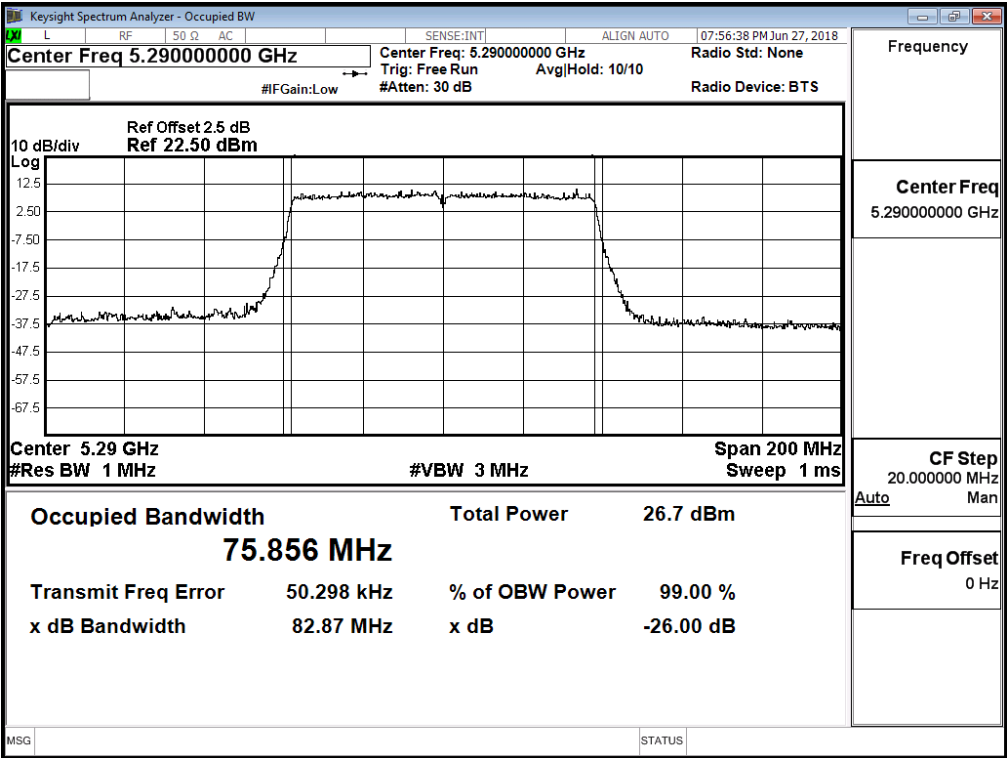


Channel 138 – Chain C

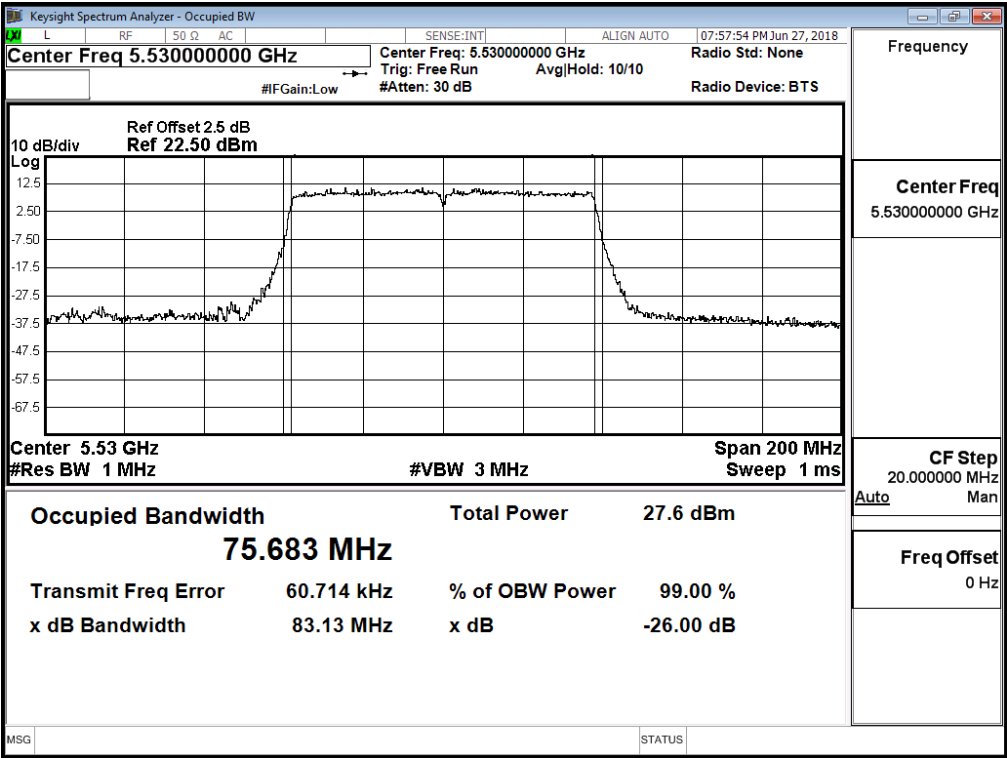


99% Bandwidth:

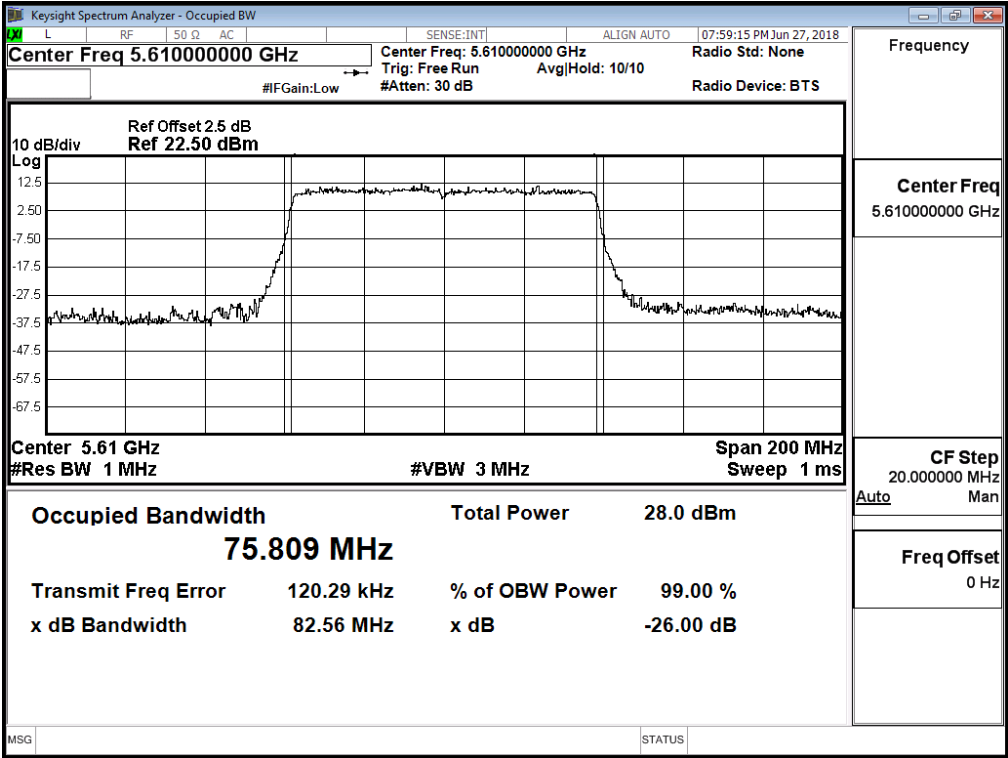
Channel 58 – Chain D



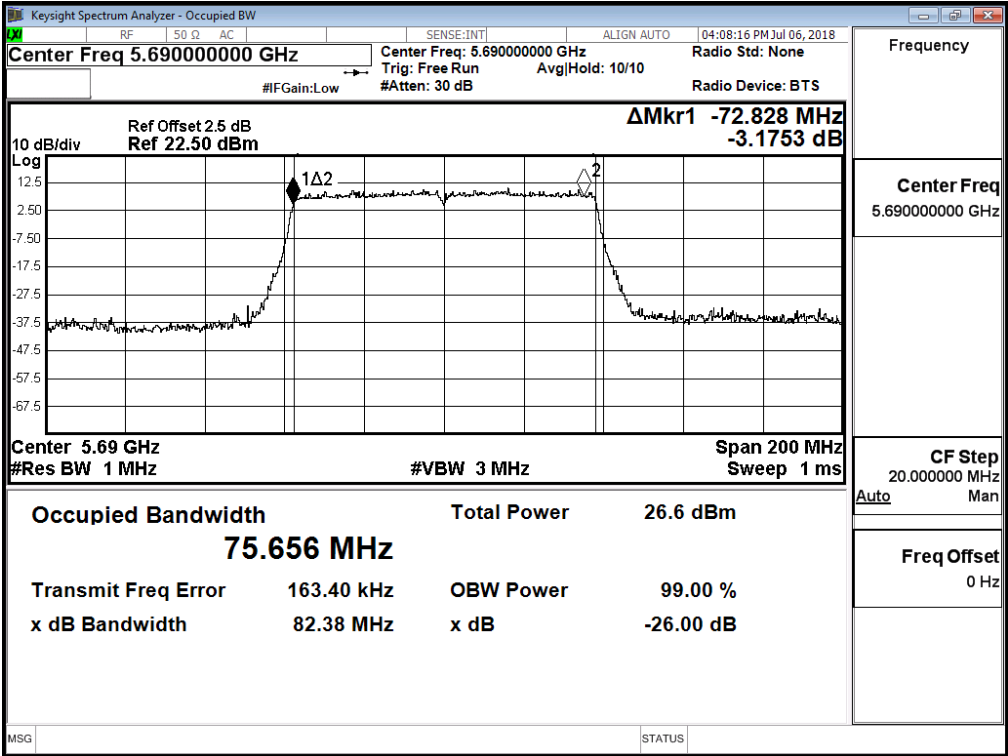
Channel 106 – Chain D

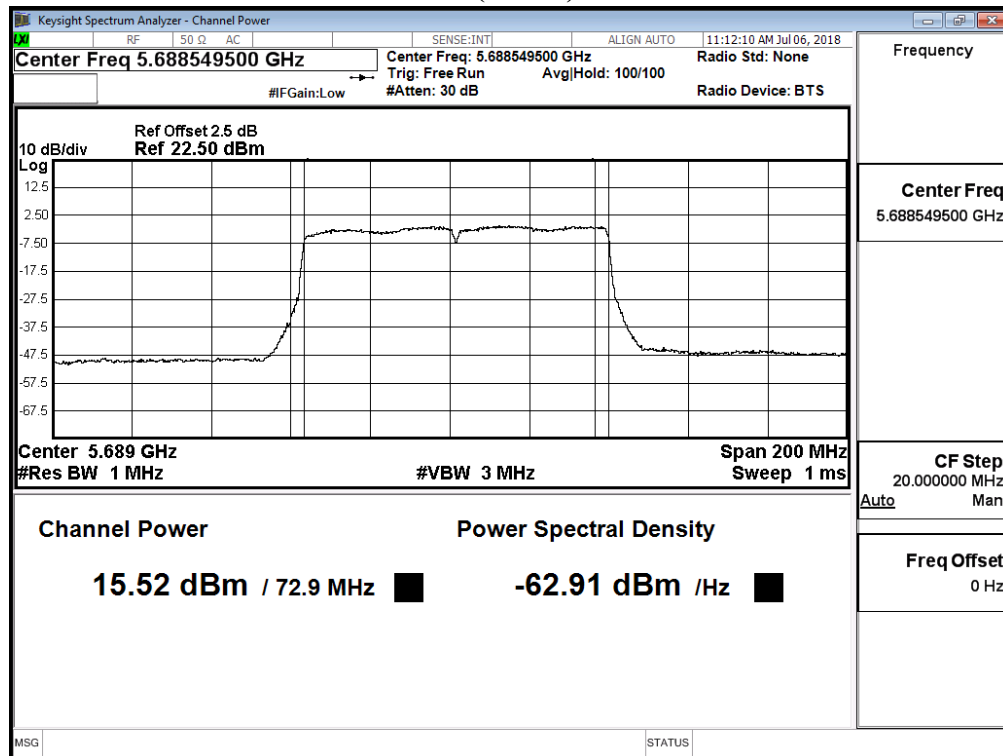
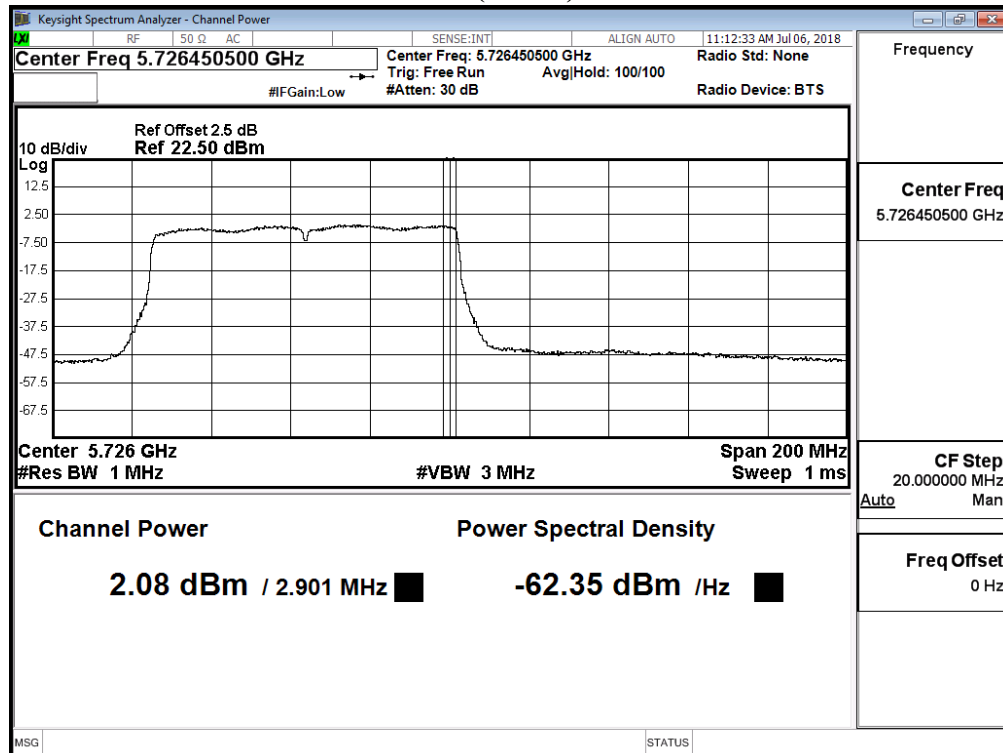


Channel 122 – Chain D

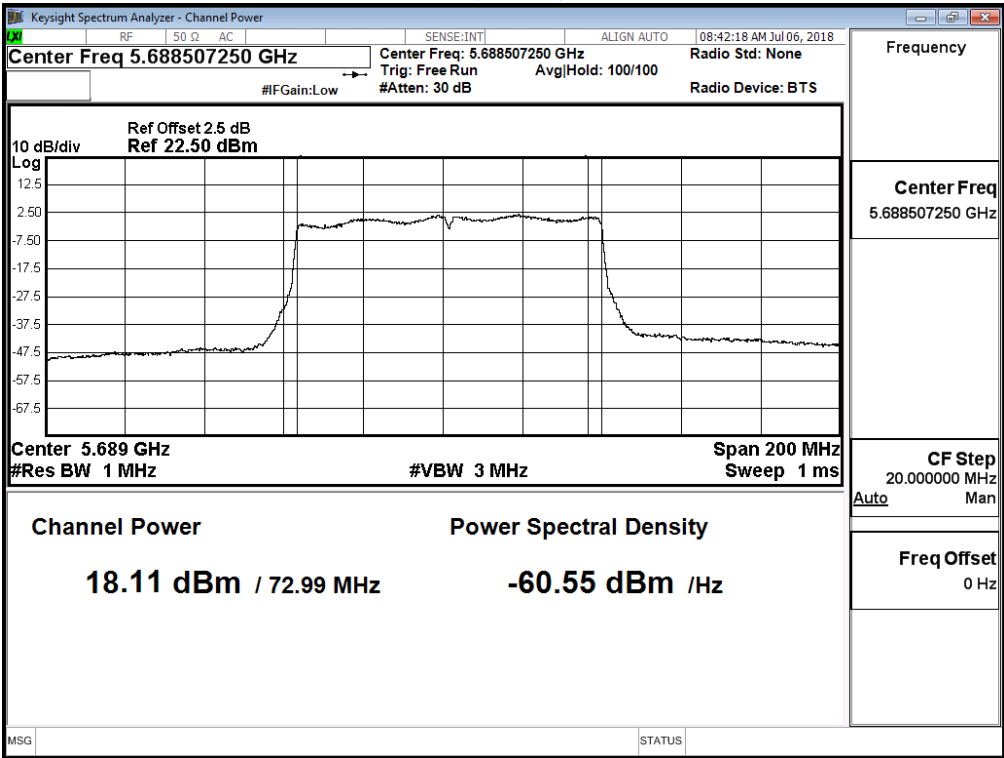


Channel 138 – Chain D

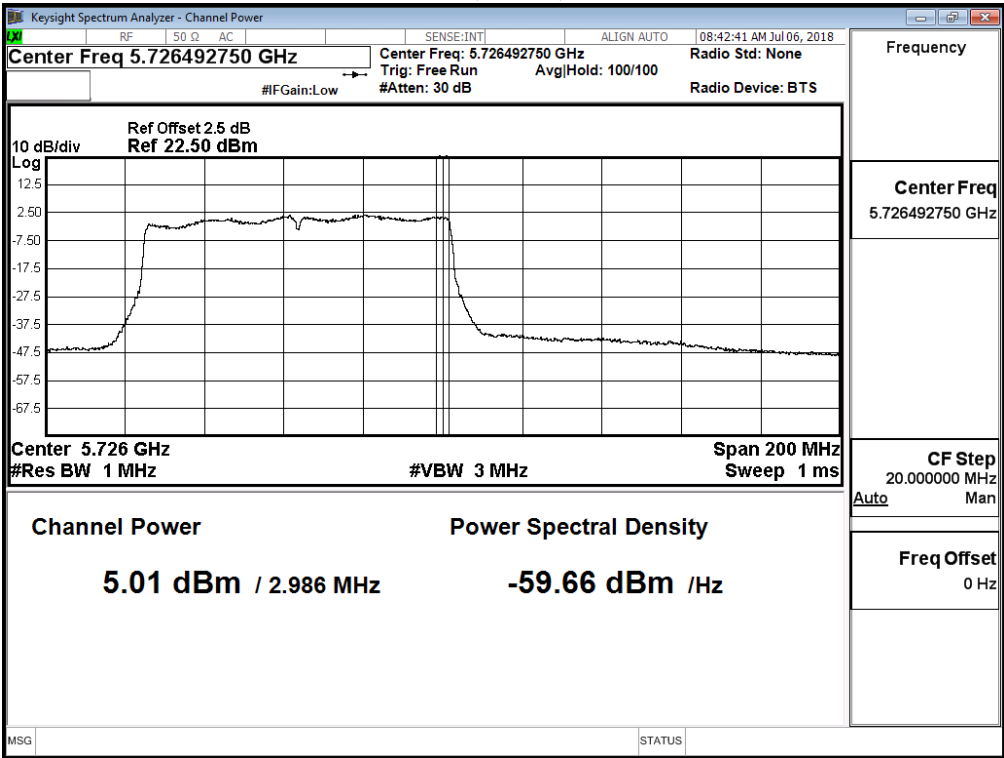


Maximum conducted output power:**Channel 138 (Band3) – Chain A****Maximum conducted output power:****Channel 138 (Band4) – Chain A**

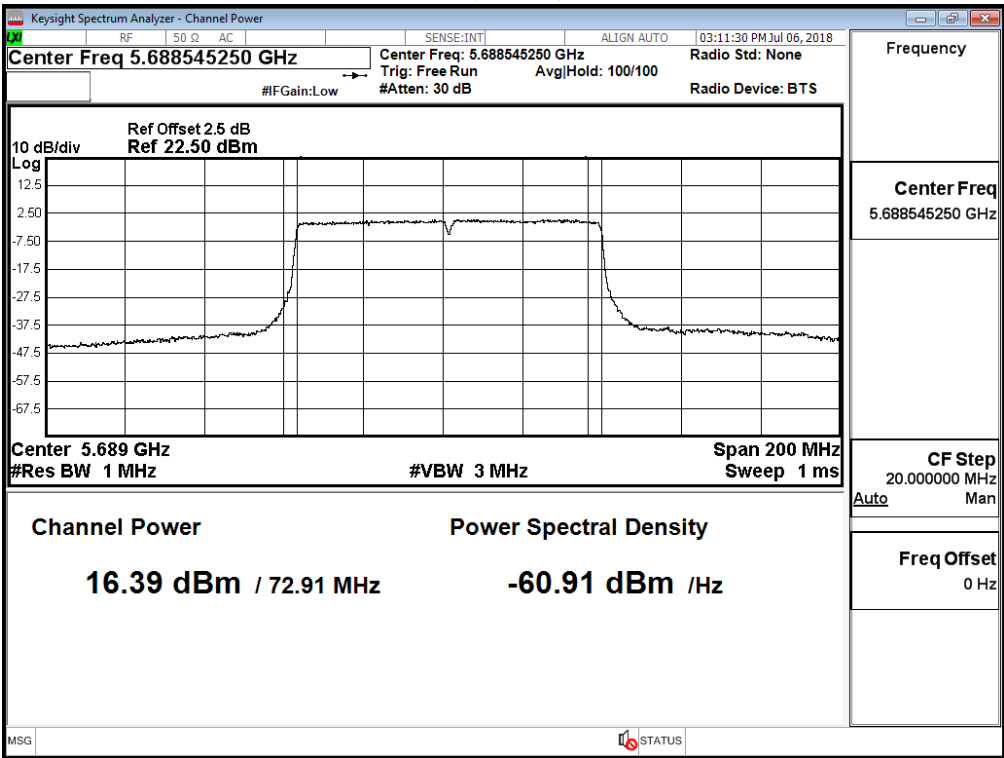
Maximum conducted output power:
Channel 138 (Band3) – Chain B



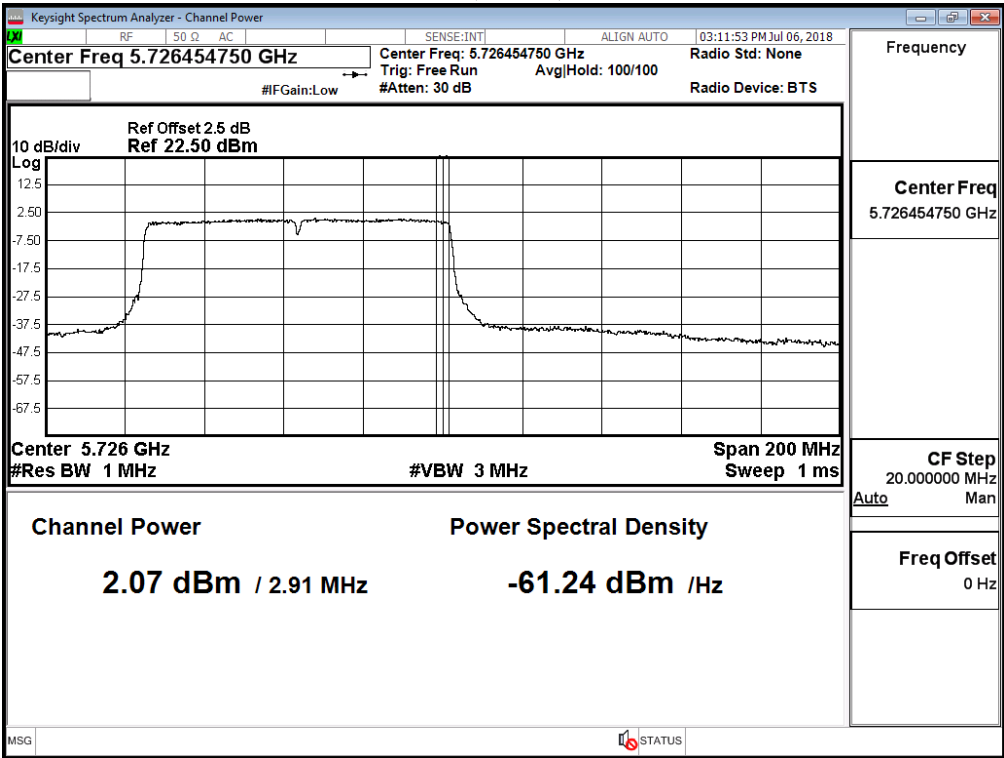
Maximum conducted output power:
Channel 138 (Band4) – Chain B



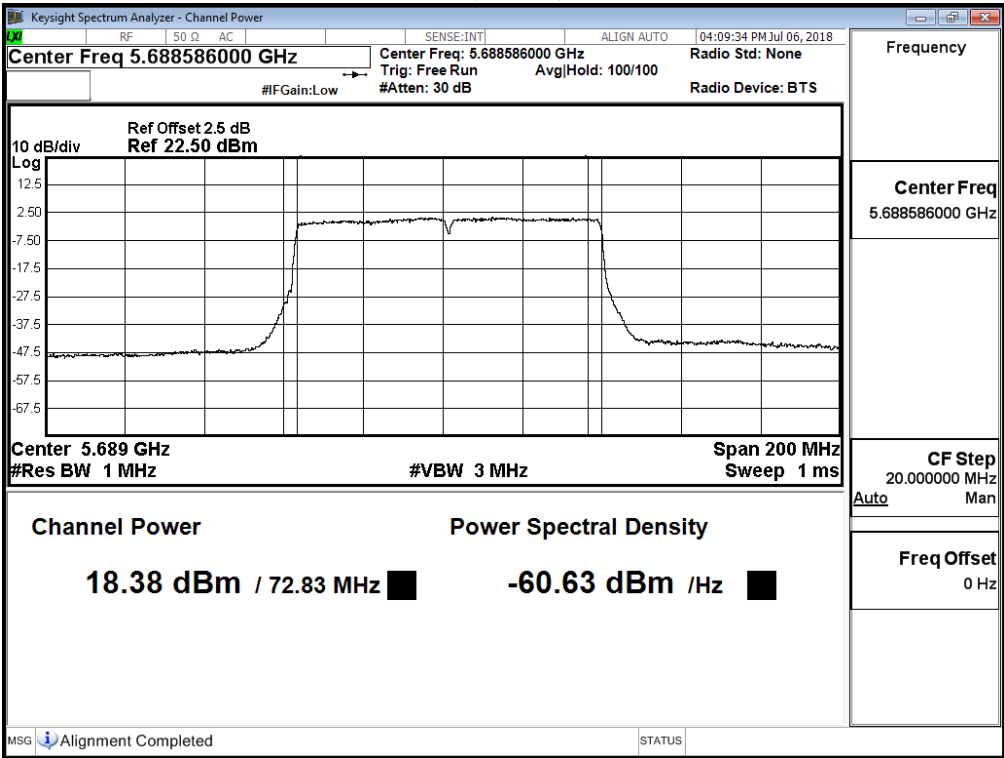
Maximum conducted output power:
Channel 138 (Band3) – Chain C



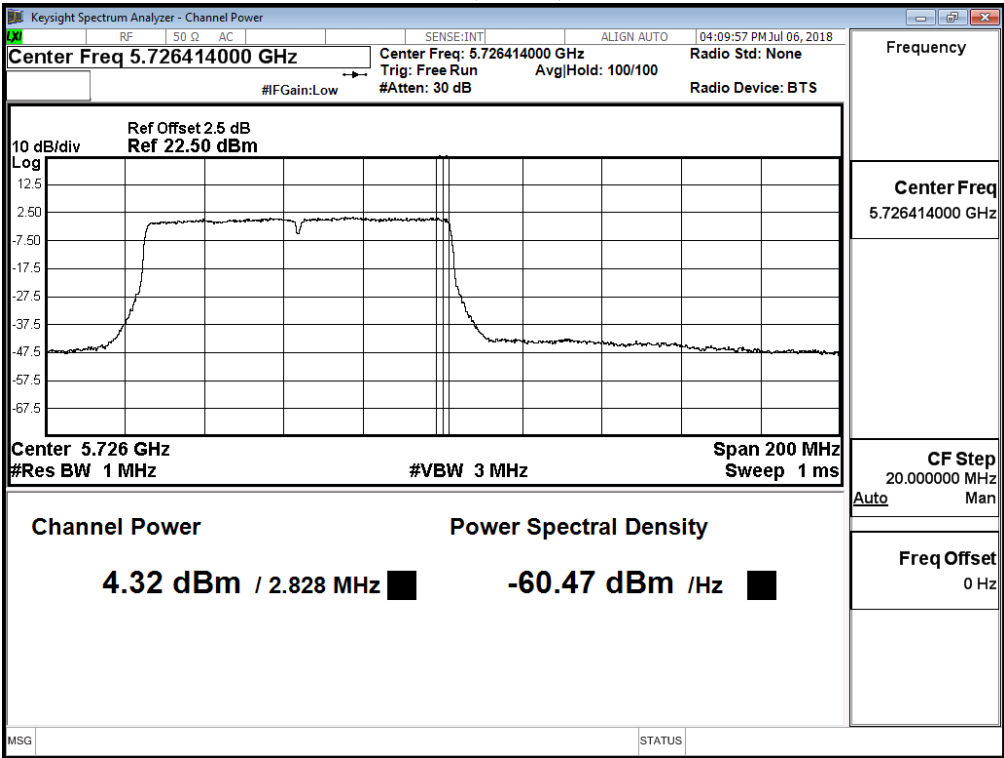
Maximum conducted output power:
Channel 138 (Band4) – Chain C



Maximum conducted output power:
Channel 138 (Band3) – Chain D



Maximum conducted output power:
Channel 138 (Band4) – Chain D



Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.8)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	17.86	--	--	--	--	--	--	--	<18dBm
44	5220	17.87	17.8	17.7	17.63	17.53	17.48	17.42	17.33	<18dBm
48	5240	17.95	--	--	--	--	--	--	--	<18dBm
52	5260	17.73	--	--	--	--	--	--	--	<18dBm
60	5300	17.53	17.48	17.41	17.34	17.26	17.21	17.12	17.04	<18dBm
64	5320	17.63	--	--	--	--	--	--	--	<18dBm
100	5500	17.41	--	--	--	--	--	--	--	<18dBm
116	5580	17.53	17.43	17.36	17.28	17.18	17.1	17.02	16.97	<18dBm
140	5700	17.86	--	--	--	--	--	--	--	<18dBm
149	5745	20.71	--	--	--	--	--	--	--	<24dBm
157	5785	20.87	20.82	20.76	20.68	20.62	20.52	20.47	20.38	<24dBm
165	5825	21.03	--	--	--	--	--	--	--	<24dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	17.79	--	--	--	--	--	--	--	<18dBm
44	5220	17.8	17.74	17.67	17.6	17.55	17.48	17.41	17.33	<18dBm
48	5240	17.85	--	--	--	--	--	--	--	<18dBm
52	5260	17.63	--	--	--	--	--	--	--	<18dBm
60	5300	17.48	17.39	17.34	17.28	17.2	17.14	17.04	16.95	<18dBm
64	5320	17.55	--	--	--	--	--	--	--	<18dBm
100	5500	17.32	--	--	--	--	--	--	--	<18dBm
116	5580	17.47	17.41	17.35	17.26	17.16	17.07	17.01	16.93	<18dBm
140	5700	17.77	--	--	--	--	--	--	--	<18dBm
149	5745	20.64	--	--	--	--	--	--	--	<24dBm
157	5785	20.82	20.72	20.65	20.6	20.51	20.45	20.38	20.33	<24dBm
165	5825	20.94	--	--	--	--	--	--	--	<24dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	17.78	--	--	--	--	--	--	--	<18dBm
44	5220	17.82	17.73	17.68	17.63	17.53	17.46	17.36	17.3	<18dBm
48	5240	17.86	--	--	--	--	--	--	--	<18dBm
52	5260	17.68	--	--	--	--	--	--	--	<18dBm
60	5300	17.46	17.36	17.26	17.18	17.08	17.03	16.96	16.9	<18dBm
64	5320	17.53	--	--	--	--	--	--	--	<18dBm
100	5500	17.31	--	--	--	--	--	--	--	<18dBm
116	5580	17.43	17.36	17.27	17.19	17.12	17.05	16.98	16.92	<18dBm
140	5700	17.79	--	--	--	--	--	--	--	<18dBm
149	5745	20.66	--	--	--	--	--	--	--	<24dBm
157	5785	20.81	20.71	20.62	20.52	20.47	20.41	20.33	20.25	<24dBm
165	5825	20.93	--	--	--	--	--	--	--	<24dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	17.76	--	--	--	--	--	--	--	<18dBm
44	5220	17.8	17.7	17.63	17.53	17.48	17.43	17.33	17.27	<18dBm
48	5240	17.85	--	--	--	--	--	--	--	<18dBm
52	5260	17.68	--	--	--	--	--	--	--	<18dBm
60	5300	17.47	17.41	17.32	17.24	17.17	17.08	16.98	16.88	<18dBm
64	5320	17.54	--	--	--	--	--	--	--	<18dBm
100	5500	17.31	--	--	--	--	--	--	--	<18dBm
116	5580	17.48	17.4	17.34	17.28	17.23	17.13	17.05	17	<18dBm
140	5700	17.77	--	--	--	--	--	--	--	<18dBm
149	5745	20.65	--	--	--	--	--	--	--	<24dBm
157	5785	20.79	20.7	20.6	20.51	20.46	20.41	20.36	20.28	<24dBm
165	5825	20.93	--	--	--	--	--	--	--	<24dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	17.86	--	--	--	17.86	18	Pass
44	5220	--	17.87	--	--	--	17.87	18	Pass
48	5240	--	17.95	--	--	--	17.95	18	Pass
52	5260	--	17.73	--	--	--	17.73	18	Pass
60	5300	--	17.53	--	--	--	17.53	18	Pass
64	5320	--	17.63	--	--	--	17.63	18	Pass
100	5500	--	17.41	--	--	--	17.41	18	Pass
116	5580	--	17.53	--	--	--	17.53	18	Pass
140	5700	--	17.86	--	--	--	17.86	18	Pass
149	5745	--	20.71	--	--	--	20.71	24	Pass
157	5785	--	20.87	--	--	--	20.87	24	Pass
165	5825	--	21.03	--	--	--	21.03	24	Pass

Note:

1. Power Output Value = Reading value on average power meter + cable loss

Maximum conducted output power Measurement with Transmit power Control (TPC)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	11.54	--	--	--	11.54	Pass
60	5300	11.41	--	--	--	11.41	Pass
64	5320	11.29	--	--	--	11.29	Pass
100	5500	11.03	--	--	--	11.03	Pass
116	5580	11.35	--	--	--	11.35	Pass
140	5700	11.54	--	--	--	11.54	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.8)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	11.21	--	--	--	--	--	--	--	<18dBm
44	5220	11.21	11.15	11.06	10.98	10.93	10.85	10.79	10.7	<18dBm
48	5240	11.56	--	--	--	--	--	--	--	<18dBm
52	5260	11.51	--	--	--	--	--	--	--	<18dBm
60	5300	11.29	11.19	11.14	11.09	10.99	10.92	10.82	10.73	<18dBm
64	5320	10.95	--	--	--	--	--	--	--	<18dBm
100	5500	11.23	--	--	--	--	--	--	--	<18dBm
116	5580	11.32	11.23	11.18	11.09	11	10.93	10.84	10.75	<18dBm
140	5700	10.81	--	--	--	--	--	--	--	<18dBm
149	5745	16.54	--	--	--	--	--	--	--	<24dBm
157	5785	16.72	16.64	16.55	16.5	16.44	16.39	16.32	16.25	<24dBm
165	5825	17.56	--	--	--	--	--	--	--	<24dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	11.86	--	--	--	--	--	--	--	<18dBm
44	5220	11.58	11.5	11.42	11.37	11.31	11.22	11.13	11.03	<18dBm
48	5240	11.57	--	--	--	--	--	--	--	<18dBm
52	5260	11.65	--	--	--	--	--	--	--	<18dBm
60	5300	11.95	11.87	11.8	11.7	11.63	11.57	11.5	11.43	<18dBm
64	5320	11.99	--	--	--	--	--	--	--	<18dBm
100	5500	12.12	--	--	--	--	--	--	--	<18dBm
116	5580	11.53	11.47	11.41	11.32	11.26	11.2	11.15	11.09	<18dBm
140	5700	12.34	--	--	--	--	--	--	--	<18dBm
149	5745	18.01	--	--	--	--	--	--	--	<24dBm
157	5785	17.91	17.83	17.76	17.69	17.6	17.53	17.48	17.38	<24dBm
165	5825	18.11	--	--	--	--	--	--	--	<24dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	12.24	--	--	--	--	--	--	--	<18dBm
44	5220	12.09	12	11.93	11.87	11.81	11.71	11.61	11.54	<18dBm
48	5240	12.19	--	--	--	--	--	--	--	<18dBm
52	5260	12.4	--	--	--	--	--	--	--	<18dBm
60	5300	12.45	12.39	12.3	12.22	12.13	12.05	11.99	11.92	<18dBm
64	5320	12.56	--	--	--	--	--	--	--	<18dBm
100	5500	12.23	--	--	--	--	--	--	--	<18dBm
116	5580	12.16	12.08	12.01	11.93	11.87	11.82	11.76	11.68	<18dBm
140	5700	12.05	--	--	--	--	--	--	--	<18dBm
149	5745	17.88	--	--	--	--	--	--	--	<24dBm
157	5785	17.51	17.45	17.35	17.3	17.22	17.12	17.03	16.96	<24dBm
165	5825	17.88	--	--	--	--	--	--	--	<24dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	11.13	--	--	--	--	--	--	--	<18dBm
44	5220	10.9	10.8	10.72	10.63	10.58	10.52	10.44	10.38	<18dBm
48	5240	11.07	--	--	--	--	--	--	--	<18dBm
52	5260	11.07	--	--	--	--	--	--	--	<18dBm
60	5300	11.17	11.1	11.03	10.95	10.86	10.78	10.71	10.63	<18dBm
64	5320	11.34	--	--	--	--	--	--	--	<18dBm
100	5500	11.61	--	--	--	--	--	--	--	<18dBm
116	5580	11.68	11.61	11.56	11.48	11.41	11.33	11.25	11.2	<18dBm
140	5700	12.01	--	--	--	--	--	--	--	<18dBm
149	5745	17.49	--	--	--	--	--	--	--	<24dBm
157	5785	17.43	17.38	17.29	17.19	17.13	17.08	16.99	16.93	<24dBm
165	5825	17.81	--	--	--	--	--	--	--	<24dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	11.21	11.86	12.24	11.13	17.66	18	Pass
44	5220	--	11.21	11.58	12.09	10.90	17.49	18	Pass
48	5240	--	11.56	11.57	12.19	11.07	17.64	18	Pass
52	5260	--	11.51	11.65	12.40	11.07	17.70	18	Pass
60	5300	--	11.29	11.95	12.45	11.17	17.77	18	Pass
64	5320	--	10.95	11.99	12.56	11.34	17.77	18	Pass
100	5500	--	11.23	12.12	12.23	11.61	17.84	18	Pass
116	5580	--	11.32	11.53	12.16	11.68	17.70	18	Pass
140	5700	--	10.81	12.34	12.05	12.01	17.86	18	Pass
149	5745	--	16.54	18.01	17.88	17.49	23.54	24	Pass
157	5785	--	16.72	17.91	17.51	17.43	23.43	24	Pass
165	5825	--	17.56	18.11	17.88	17.81	23.87	24	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	5.18	5.47	6.27	4.96	11.52	Pass
60	5300	5.11	5.66	6.17	4.84	11.50	Pass
64	5320	4.57	5.66	6.23	5.05	11.44	Pass
100	5500	4.95	5.78	5.94	5.28	11.53	Pass
116	5580	5.09	5.31	6.03	5.30	11.47	Pass
140	5700	4.47	6.23	5.76	5.83	11.64	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.8)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	11.41	--	--	--	--	--	--	--	<18dBm
46	5230	11.52	11.45	11.36	11.28	11.2	11.11	11.04	10.95	<18dBm
54	5270	11.31	--	--	--	--	--	--	--	<18dBm
62	5310	11.13	11.07	10.99	10.91	10.81	10.76	10.68	10.63	<18dBm
102	5510	11.29	--	--	--	--	--	--	--	<18dBm
110	5550	10.87	10.81	10.74	10.69	10.59	10.52	10.46	10.4	<18dBm
134	5670	10.54	--	--	--	--	--	--	--	<18dBm
151	5755	16.49	--	--	--	--	--	--	--	<24dBm
159	5795	16.68	16.59	16.51	16.44	16.38	16.33	16.24	16.14	<24dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	12.07	--	--	--	--	--	--	--	<18dBm
46	5230	11.54	11.47	11.37	11.31	11.23	11.15	11.07	11	<18dBm
54	5270	11.53	--	--	--	--	--	--	--	<18dBm
62	5310	11.81	11.75	11.65	11.6	11.53	11.45	11.37	11.3	<18dBm
102	5510	12.22	--	--	--	--	--	--	--	<18dBm
110	5550	11.78	11.69	11.59	11.52	11.43	11.33	11.24	11.19	<18dBm
134	5670	11.97	--	--	--	--	--	--	--	<18dBm
151	5755	18.12	--	--	--	--	--	--	--	<24dBm
159	5795	17.86	17.81	17.73	17.63	17.58	17.52	17.47	17.38	<24dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	12.36	--	--	--	--	--	--	--	<18dBm
46	5230	12.24	12.18	12.08	12	11.94	11.86	11.8	11.71	<18dBm
54	5270	12.41	--	--	--	--	--	--	--	<18dBm
62	5310	12.43	12.35	12.29	12.21	12.13	12.07	11.99	11.94	<18dBm
102	5510	12.3	--	--	--	--	--	--	--	<18dBm
110	5550	12.18	12.12	12.07	11.97	11.92	11.86	11.8	11.7	<18dBm
134	5670	12.66	--	--	--	--	--	--	--	<18dBm
151	5755	17.79	--	--	--	--	--	--	--	<24dBm
159	5795	17.67	17.6	17.5	17.4	17.32	17.27	17.19	17.1	<24dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	11.2	--	--	--	--	--	--	--	<18dBm
46	5230	11.22	11.15	11.09	11.01	10.93	10.86	10.76	10.7	<18dBm
54	5270	11.19	--	--	--	--	--	--	--	<18dBm
62	5310	11.28	11.21	11.15	11.08	11	10.94	10.87	10.78	<18dBm
102	5510	11.77	--	--	--	--	--	--	--	<18dBm
110	5550	11.64	11.57	11.52	11.44	11.34	11.26	11.19	11.13	<18dBm
134	5670	12.03	--	--	--	--	--	--	--	<18dBm
151	5755	17.53	--	--	--	--	--	--	--	<24dBm
159	5795	17.62	17.55	17.49	17.39	17.34	17.29	17.19	17.13	<24dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	11.41	12.07	12.36	11.20	17.81	18	Pass
46	5230	--	11.52	11.54	12.24	11.22	17.67	18	Pass
54	5270	--	11.31	11.53	12.41	11.19	17.66	18	Pass
62	5310	--	11.13	11.81	12.43	11.28	17.71	18	Pass
102	5510	--	11.29	12.22	12.30	11.77	17.93	18	Pass
110	5550	--	10.87	11.78	12.18	11.64	17.66	18	Pass
134	5670	--	10.54	11.97	12.66	12.03	17.89	18	Pass
151	5755	--	16.49	18.12	17.79	17.53	23.54	24	Pass
159	5795	--	16.68	17.86	17.67	17.62	23.50	24	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	5.13	5.34	6.19	5.01	11.46	Pass
62	5310	4.95	5.48	6.10	4.99	11.43	Pass
102	5510	4.96	5.93	6.11	5.46	11.66	Pass
110	5550	4.65	5.56	5.95	5.26	11.40	Pass
134	5670	4.20	5.84	6.53	5.70	11.67	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.8)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	7.81	7.74	7.69	7.63	7.53	7.47	7.39	7.34	7.27	<18dBm
144 (Band4)	5720	1.89	1.82	1.77	1.7	1.6	1.53	1.44	1.38	1.31	<24dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	7.93	7.88	7.82	7.73	7.63	7.56	7.46	7.39	7.32	<18dBm
144 (Band4)	5720	1.75	1.65	1.55	1.46	1.38	1.29	1.21	1.13	1.07	<24dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	7.88	7.82	7.75	7.66	7.58	7.5	7.42	7.32	7.26	<18dBm
144 (Band4)	5720	1.82	1.77	1.68	1.59	1.51	1.44	1.37	1.28	1.21	<24dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	7.99	7.92	7.83	7.75	7.65	7.55	7.46	7.36	7.31	<18dBm
144 (Band4)	5720	1.69	1.63	1.56	1.48	1.39	1.32	1.26	1.18	1.1	<24dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
144(Band3)	5720	--	7.810	7.930	7.880	7.990	13.91	18	Pass
144(Band4)	5720	--	1.890	1.750	1.820	1.690	7.81	24	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
144(Band3)	5720	1.590	1.600	1.750	1.700	7.66	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.8)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	10.69	10.6	10.54	10.44	10.37	10.32	10.23	10.15	10.07	10.01	<18dBm
142F(Band4)	5710	0.53	0.44	0.35	0.3	0.25	0.18	0.1	0.02	-0.08	-0.13	<24dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	10.78	10.7	10.61	10.54	10.48	10.4	10.33	10.23	10.17	10.1	<18dBm
142F(Band4)	5710	0.48	0.41	0.33	0.27	0.22	0.12	0.06	0	-0.08	-0.14	<24dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	10.83	10.75	10.69	10.62	10.55	10.48	10.43	10.34	10.27	10.18	<18dBm
142F(Band4)	5710	0.43	0.34	0.27	0.22	0.17	0.07	0	-0.07	-0.14	-0.23	<24dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	10.91	10.84	10.78	10.72	10.62	10.56	10.49	10.41	10.35	10.25	<18dBm
142F(Band4)	5710	0.37	0.32	0.26	0.19	0.1	0.05	-0.01	-0.1	-0.16	-0.26	<24dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
142F(Band3)	5710	--	10.690	10.780	10.83	10.91	16.82	18	Pass
142F(Band4)	5710	--	0.530	0.480	0.43	0.37	6.47	24	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
142(Band3)	5710	4.420	4.590	4.50	4.69	10.57	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.8)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	11.52	11.45	11.37	11.3	11.25	11.2	11.13	11.07	11.00	10.92	<18dBm
58	5290	11.21	11.14	11.08	11.00	10.94	10.84	10.76	10.70	10.62	10.52	<18dBm
106	5530	11.1	--	--	--	--	--	--	--	--	--	<18dBm
122	5610	10.8	10.74	10.64	10.54	10.47	10.42	10.34	10.27	10.19	10.11	<18dBm
138(Band3)	5690	9.91	--	--	--	--	--	--	--	--	--	<18dBm
138(Band4)	5690	-3.42	--	--	--	--	--	--	--	--	--	<24dBm
155	5775	15.25	15.2	15.14	15.07	15.01	14.91	14.83	14.76	14.69	14.62	<24dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	11.96	11.91	11.84	11.78	11.69	11.6	11.53	11.48	11.41	11.36	<18dBm
58	5290	11.69	11.61	11.54	11.44	11.38	11.33	11.24	11.17	11.10	11.04	<18dBm
106	5530	11.91	--	--	--	--	--	--	--	--	--	<18dBm
122	5610	11.62	11.52	11.43	11.37	11.32	11.22	11.15	11.10	11.03	10.96	<18dBm
138(Band3)	5690	12.63	--	--	--	--	--	--	--	--	--	<18dBm
138(Band4)	5690	-0.49	--	--	--	--	--	--	--	--	--	<24dBm
155	5775	15.59	15.51	15.43	15.37	15.29	15.19	15.09	15.01	14.93	14.86	<24dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	12.32	12.27	12.18	12.11	12.04	11.94	11.87	11.8	11.72	11.62	<18dBm
58	5290	12.15	12.06	12.01	11.93	11.83	11.76	11.67	11.58	11.48	11.40	<18dBm
106	5530	11.82	--	--	--	--	--	--	--	--	--	<18dBm
122	5610	12.34	12.24	12.17	12.07	11.99	11.94	11.87	11.77	11.68	11.63	<18dBm
138(Band3)	5690	10.6	--	--	--	--	--	--	--	--	--	<18dBm
138(Band4)	5690	-3.95	--	--	--	--	--	--	--	--	--	<24dBm
155	5775	16.48	16.39	16.29	16.24	16.18	16.13	16.05	15.97	15.87	15.80	<24dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	11.32	11.26	11.16	11.1	11.01	10.93	10.85	10.78	10.72	10.62	<18dBm
58	5290	11.04	10.95	10.87	10.80	10.70	10.65	10.56	10.50	10.44	10.38	<18dBm
106	5530	11.36	--	--	--	--	--	--	--	--	--	<18dBm
122	5610	11.85	11.78	11.7	11.65	11.60	11.52	11.43	11.33	11.27	11.18	<18dBm
138(Band3)	5690	12.56	--	--	--	--	--	--	--	--	--	<18dBm
138(Band4)	5690	-1.71	--	--	--	--	--	--	--	--	--	<24dBm
155	5775	16.16	16.07	15.99	15.93	15.86	15.81	15.74	15.69	15.60	15.55	<24dBm

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

**Maximum conducted output power Measurement
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
42	5210	--	11.520	11.960	12.320	11.320	17.82	18	Pass
58	5290	--	11.210	11.690	12.150	11.040	17.56	18	Pass
106	5530	--	11.100	11.910	11.820	11.360	17.58	18	Pass
122	5610	--	10.800	11.620	12.340	11.850	17.71	18	Pass
138	5690	--	9.910	12.630	10.600	12.560	17.61	18	Pass
138ac80(Band4)	5690	--	-3.420	-0.490	-3.950	-1.710	3.85	24	Pass
155	5775	--	15.250	15.590	16.480	16.160	21.92	24	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
58	5290	5.100	5.580	5.780	4.910	11.38	Pass
106	5530	4.880	5.630	5.570	5.250	11.36	Pass
122	5610	4.500	5.380	6.210	5.520	11.47	Pass
138	5690	3.620	6.300	4.380	6.190	11.29	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.9)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.61	--	--	--	--	--	--	--	<24dBm
44	5220	20.97	20.89	20.84	20.77	20.67	20.61	20.52	20.43	<24dBm
48	5240	21.04	--	--	--	--	--	--	--	<24dBm
52	5260	21.65	--	--	--	--	--	--	--	<24dBm
60	5300	21.44	21.34	21.27	21.22	21.12	21.05	20.97	20.87	<24dBm
64	5320	21.32	--	--	--	--	--	--	--	<24dBm
100	5500	22.46	--	--	--	--	--	--	--	<24dBm
116	5580	21.99	21.93	21.87	21.8	21.72	21.63	21.55	21.49	<24dBm
140	5700	20.59	--	--	--	--	--	--	--	<24dBm
149	5745	20.44	--	--	--	--	--	--	--	<30dBm
157	5785	20.68	20.6	20.52	20.46	20.41	20.32	20.27	20.18	<30dBm
165	5825	20.7	--	--	--	--	--	--	--	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.56	--	--	--	--	--	--	--	<24dBm
44	5220	20.88	20.79	20.72	20.62	20.57	20.47	20.41	20.33	<24dBm
48	5240	20.99	--	--	--	--	--	--	--	<24dBm
52	5260	21.55	--	--	--	--	--	--	--	<24dBm
60	5300	21.37	21.27	21.17	21.1	21.02	20.94	20.84	20.77	<24dBm
64	5320	21.25	--	--	--	--	--	--	--	<24dBm
100	5500	22.36	--	--	--	--	--	--	--	<24dBm
116	5580	21.91	21.85	21.75	21.65	21.55	21.48	21.38	21.31	<24dBm
140	5700	20.52	--	--	--	--	--	--	--	<24dBm
149	5745	20.36	--	--	--	--	--	--	--	<30dBm
157	5785	20.6	20.52	20.47	20.41	20.34	20.27	20.2	20.1	<30dBm
165	5825	20.62	--	--	--	--	--	--	--	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.56	--	--	--	--	--	--	--	<24dBm
44	5220	20.89	20.83	20.77	20.72	20.62	20.54	20.46	20.38	<24dBm
48	5240	20.95	--	--	--	--	--	--	--	<24dBm
52	5260	21.57	--	--	--	--	--	--	--	<24dBm
60	5300	21.36	21.31	21.22	21.14	21.05	20.97	20.91	20.85	<24dBm
64	5320	21.26	--	--	--	--	--	--	--	<24dBm
100	5500	22.37	--	--	--	--	--	--	--	<24dBm
116	5580	21.91	21.82	21.76	21.66	21.56	21.46	21.4	21.33	<24dBm
140	5700	20.5	--	--	--	--	--	--	--	<24dBm
149	5745	20.34	--	--	--	--	--	--	--	<30dBm
157	5785	20.6	20.55	20.45	20.4	20.33	20.26	20.19	20.14	<30dBm
165	5825	20.64	--	--	--	--	--	--	--	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.56	--	--	--	--	--	--	--	<24dBm
44	5220	20.87	20.8	20.72	20.62	20.53	20.43	20.33	20.28	<24dBm
48	5240	20.94	--	--	--	--	--	--	--	<24dBm
52	5260	21.6	--	--	--	--	--	--	--	<24dBm
60	5300	21.39	21.31	21.21	21.16	21.09	21.03	20.98	20.91	<24dBm
64	5320	21.27	--	--	--	--	--	--	--	<24dBm
100	5500	22.39	--	--	--	--	--	--	--	<24dBm
116	5580	21.93	21.83	21.78	21.72	21.64	21.54	21.44	21.37	<24dBm
140	5700	20.54	--	--	--	--	--	--	--	<24dBm
149	5745	20.36	--	--	--	--	--	--	--	<30dBm
157	5785	20.6	20.53	20.44	20.38	20.3	20.23	20.15	20.09	<30dBm
165	5825	20.6	--	--	--	--	--	--	--	<30dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	20.61	--	--	--	20.61	24	Pass
44	5220	--	20.97	--	--	--	20.97	24	Pass
48	5240	--	21.04	--	--	--	21.04	24	Pass
52	5260	--	21.65	--	--	--	21.65	24	Pass
60	5300	--	21.44	--	--	--	21.44	24	Pass
64	5320	--	21.32	--	--	--	21.32	24	Pass
100	5500	--	22.46	--	--	--	22.46	24	Pass
116	5580	--	21.99	--	--	--	21.99	24	Pass
140	5700	--	20.59	--	--	--	20.59	24	Pass
149	5745	--	20.44	--	--	--	20.44	30	Pass
157	5785	--	20.68	--	--	--	20.68	30	Pass
165	5825	--	20.70	--	--	--	20.70	30	Pass

Note:

1. Power Output Value = Reading value on average power meter + cable loss

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	15.42	--	--	--	15.42	Pass
60	5300	15.11	--	--	--	15.11	Pass
64	5320	14.98	--	--	--	14.98	Pass
100	5500	16.08	--	--	--	16.08	Pass
116	5580	15.67	--	--	--	15.67	Pass
140	5700	14.41	--	--	--	14.41	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.9)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.6	--	--	--	--	--	--	--	<24dBm
44	5220	14.9	14.83	14.74	14.64	14.59	14.54	14.49	14.4	<24dBm
48	5240	14.55	--	--	--	--	--	--	--	<24dBm
52	5260	15.29	--	--	--	--	--	--	--	<24dBm
60	5300	15.06	14.97	14.92	14.82	14.73	14.67	14.57	14.52	<24dBm
64	5320	15.27	--	--	--	--	--	--	--	<24dBm
100	5500	15.41	--	--	--	--	--	--	--	<24dBm
116	5580	14.92	14.83	14.77	14.69	14.64	14.56	14.51	14.41	<24dBm
140	5700	13.41	--	--	--	--	--	--	--	<24dBm
149	5745	18.6	--	--	--	--	--	--	--	<30dBm
157	5785	18.36	18.29	18.24	18.16	18.11	18.01	17.92	17.87	<30dBm
165	5825	18.5	--	--	--	--	--	--	--	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.61	--	--	--	--	--	--	--	<24dBm
44	5220	14.82	14.77	14.72	14.62	14.57	14.51	14.42	14.32	<24dBm
48	5240	14.16	--	--	--	--	--	--	--	<24dBm
52	5260	14.81	--	--	--	--	--	--	--	<24dBm
60	5300	15.29	15.22	15.16	15.1	15	14.91	14.83	14.75	<24dBm
64	5320	15.69	--	--	--	--	--	--	--	<24dBm
100	5500	15.36	--	--	--	--	--	--	--	<24dBm
116	5580	14.53	14.45	14.38	14.29	14.22	14.15	14.06	14.01	<24dBm
140	5700	13.89	--	--	--	--	--	--	--	<24dBm
149	5745	20.35	--	--	--	--	--	--	--	<30dBm
157	5785	20.06	19.96	19.88	19.78	19.71	19.64	19.54	19.49	<30dBm
165	5825	19.87	--	--	--	--	--	--	--	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.56	--	--	--	--	--	--	--	<24dBm
44	5220	14.87	14.79	14.7	14.62	14.52	14.46	14.38	14.3	<24dBm
48	5240	14.64	--	--	--	--	--	--	--	<24dBm
52	5260	14.79	--	--	--	--	--	--	--	<24dBm
60	5300	14.87	14.81	14.76	14.67	14.6	14.55	14.46	14.41	<24dBm
64	5320	15.46	--	--	--	--	--	--	--	<24dBm
100	5500	14.27	--	--	--	--	--	--	--	<24dBm
116	5580	14.15	14.07	13.97	13.9	13.85	13.76	13.7	13.65	<24dBm
140	5700	13.79	--	--	--	--	--	--	--	<24dBm
149	5745	19.78	--	--	--	--	--	--	--	<30dBm
157	5785	20.01	19.94	19.87	19.82	19.74	19.67	19.59	19.52	<30dBm
165	5825	19.73	--	--	--	--	--	--	--	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	13.97	--	--	--	--	--	--	--	<24dBm
44	5220	14.39	14.32	14.22	14.16	14.1	14.01	13.93	13.84	<24dBm
48	5240	13.91	--	--	--	--	--	--	--	<24dBm
52	5260	14.35	--	--	--	--	--	--	--	<24dBm
60	5300	14.42	14.35	14.25	14.16	14.08	14.03	13.95	13.87	<24dBm
64	5320	15.48	--	--	--	--	--	--	--	<24dBm
100	5500	15.31	--	--	--	--	--	--	--	<24dBm
116	5580	15.38	15.32	15.22	15.17	15.12	15.07	15.02	14.96	<24dBm
140	5700	15.09	--	--	--	--	--	--	--	<24dBm
149	5745	19.29	--	--	--	--	--	--	--	<30dBm
157	5785	19.93	19.83	19.74	19.66	19.59	19.53	19.48	19.39	<30dBm
165	5825	19.78	--	--	--	--	--	--	--	<30dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	14.60	14.61	14.56	13.97	20.46	24	Pass
44	5220	--	14.90	14.82	14.87	14.39	20.77	24	Pass
48	5240	--	14.55	14.16	14.64	13.91	20.35	24	Pass
52	5260	--	15.29	14.81	14.79	14.35	20.84	24	Pass
60	5300	--	15.06	15.29	14.87	14.42	20.94	24	Pass
64	5320	--	15.27	15.69	15.46	15.48	21.50	24	Pass
100	5500	--	15.41	15.36	14.27	15.31	21.13	24	Pass
116	5580	--	14.92	14.53	14.15	15.38	20.79	24	Pass
140	5700	--	13.41	13.89	13.79	15.09	20.11	24	Pass
149	5745	--	18.60	20.35	19.78	19.29	25.57	30	Pass
157	5785	--	18.36	20.06	20.01	19.93	25.67	30	Pass
165	5825	--	18.50	19.87	19.73	19.78	25.53	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	9.07	8.59	8.66	8.13	14.65	Pass
60	5300	8.77	9.16	8.65	8.09	14.70	Pass
64	5320	8.94	9.31	9.24	9.17	15.19	Pass
100	5500	9.07	9.14	7.93	8.98	14.83	Pass
116	5580	8.70	8.23	7.93	9.25	14.58	Pass
140	5700	7.30	7.69	7.46	8.86	13.89	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.9)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	18.05	--	--	--	--	--	--	--	<24dBm
46	5230	17.57	17.52	17.42	17.32	17.26	17.18	17.09	17.01	<24dBm
54	5270	17.63	--	--	--	--	--	--	--	<24dBm
62	5310	17.41	17.32	17.26	17.21	17.16	17.08	17.03	16.94	<24dBm
102	5510	17.87	--	--	--	--	--	--	--	<24dBm
110	5550	17.67	17.6	17.54	17.47	17.4	17.35	17.29	17.23	<24dBm
134	5670	16.94	--	--	--	--	--	--	--	<24dBm
151	5755	18.8	--	--	--	--	--	--	--	<30dBm
159	5795	18.18	18.11	18.06	17.98	17.91	17.86	17.77	17.67	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	18.02	--	--	--	--	--	--	--	<24dBm
46	5230	17.26	17.2	17.11	17.01	16.92	16.86	16.79	16.69	<24dBm
54	5270	17.34	--	--	--	--	--	--	--	<24dBm
62	5310	17.59	17.53	17.44	17.34	17.27	17.17	17.11	17.03	<24dBm
102	5510	17.53	--	--	--	--	--	--	--	<24dBm
110	5550	17.17	17.12	17.02	16.95	16.87	16.82	16.75	16.7	<24dBm
134	5670	16.81	--	--	--	--	--	--	--	<24dBm
151	5755	19.33	--	--	--	--	--	--	--	<30dBm
159	5795	20.12	20.03	19.93	19.83	19.75	19.66	19.57	19.48	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.99	--	--	--	--	--	--	--	<24dBm
46	5230	17.67	17.6	17.53	17.47	17.38	17.33	17.28	17.22	<24dBm
54	5270	17.53	--	--	--	--	--	--	--	<24dBm
62	5310	17.62	17.52	17.47	17.39	17.3	17.25	17.2	17.13	<24dBm
102	5510	17.05	--	--	--	--	--	--	--	<24dBm
110	5550	17.03	16.94	16.86	16.8	16.71	16.63	16.56	16.48	<24dBm
134	5670	17.08	--	--	--	--	--	--	--	<24dBm
151	5755	18.74	--	--	--	--	--	--	--	<30dBm
159	5795	19.81	19.75	19.7	19.65	19.58	19.49	19.42	19.32	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.47	--	--	--	--	--	--	--	<24dBm
46	5230	17.15	17.07	16.99	16.92	16.83	16.75	16.69	16.59	<24dBm
54	5270	17.18	--	--	--	--	--	--	--	<24dBm
62	5310	17.1	17.03	16.93	16.88	16.8	16.7	16.65	16.58	<24dBm
102	5510	18.01	--	--	--	--	--	--	--	<24dBm
110	5550	18.18	18.08	18.02	17.97	17.92	17.86	17.78	17.71	<24dBm
134	5670	17.99	--	--	--	--	--	--	--	<24dBm
151	5755	19.63	--	--	--	--	--	--	--	<30dBm
159	5795	19.74	19.67	19.57	19.52	19.42	19.34	19.25	19.15	<30dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	18.05	18.02	17.99	17.47	23.91	24	Pass
46	5230	--	17.57	17.26	17.67	17.15	23.44	24	Pass
54	5270	--	17.63	17.34	17.53	17.18	23.44	24	Pass
62	5310	--	17.41	17.59	17.62	17.10	23.46	24	Pass
102	5510	--	17.87	17.53	17.05	18.01	23.65	24	Pass
110	5550	--	17.67	17.17	17.03	18.18	23.56	24	Pass
134	5670	--	16.94	16.81	17.08	17.99	23.25	24	Pass
151	5755	--	18.80	19.33	18.74	19.63	25.16	30	Pass
159	5795	--	18.18	20.12	19.81	19.74	25.54	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	11.41	11.12	11.31	10.84	17.20	Pass
62	5310	11.08	11.26	11.28	10.85	17.14	Pass
102	5510	11.74	11.19	10.92	11.65	17.41	Pass
110	5550	11.44	11.01	10.78	12.06	17.37	Pass
134	5670	10.81	10.58	10.75	11.75	17.02	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.9)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.93	13.86	13.77	13.68	13.58	13.53	13.44	13.37	13.27	<24dBm
144 (Band4)	5720	8.15	8.1	8.04	7.95	7.89	7.8	7.74	7.69	7.61	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.81	13.72	13.65	13.55	13.49	13.44	13.35	13.29	13.22	<24dBm
144 (Band4)	5720	8.05	7.98	7.89	7.8	7.7	7.64	7.58	7.5	7.41	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.77	13.7	13.6	13.54	13.45	13.37	13.27	13.19	13.13	<24dBm
144 (Band4)	5720	8.16	8.06	7.98	7.91	7.84	7.74	7.65	7.58	7.52	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.75	13.69	13.6	13.55	13.49	13.41	13.36	13.28	13.21	<24dBm
144 (Band4)	5720	8.02	7.97	7.88	7.82	7.72	7.64	7.58	7.5	7.42	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
144(Band3)	5720	--	13.930	13.810	13.770	13.750	19.85	24	Pass
144(Band4)	5720	--	8.150	8.050	8.160	8.020	14.12	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
144(Band3)	5720	7.710	7.520	7.440	7.460	13.57	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.9)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.35	17.28	17.22	17.15	17.06	17	16.94	16.86	16.77	16.67	<24dBm
142F(Band4)	5710	6.71	6.61	6.54	6.47	6.38	6.33	6.26	6.21	6.14	6.06	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.39	17.31	17.21	17.13	17.07	17	16.92	16.87	16.81	16.72	<24dBm
142F(Band4)	5710	6.82	6.77	6.69	6.64	6.57	6.47	6.41	6.34	6.26	6.19	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.39	17.3	17.25	17.19	17.13	17.06	16.99	16.9	16.8	16.71	<24dBm
142F(Band4)	5710	6.71	6.63	6.56	6.48	6.4	6.32	6.22	6.12	6.06	6.01	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.55	17.5	17.44	17.34	17.26	17.19	17.09	17.04	16.94	16.89	<24dBm
142F(Band4)	5710	6.82	6.74	6.65	6.6	6.51	6.41	6.36	6.28	6.23	6.18	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
142F(Band3)	5710	--	17.350	17.390	17.39	17.55	23.44	24	Pass
142F(Band4)	5710	--	6.710	6.820	6.71	6.82	12.79	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
142(Band3)	5710	11.240	11.010	11.10	11.33	17.19	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.9)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.72	17.65	17.56	17.48	17.40	17.33	17.25	17.16	17.09	17.01	<24dBm
58	5290	17.51	17.41	17.36	17.28	17.21	17.12	17.06	17.00	16.90	16.84	<24dBm
106	5530	17.81	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.69	17.59	17.54	17.49	17.42	17.33	17.28	17.23	17.18	17.11	<24dBm
138(Band3)	5690	15.46	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	2.02	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.72	20.62	20.57	20.47	20.38	20.33	20.28	20.21	20.12	20.06	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.77	17.72	17.62	17.57	17.48	17.43	17.33	17.24	17.15	17.09	<24dBm
58	5290	17.48	17.43	17.33	17.24	17.16	17.06	16.97	16.91	16.84	16.78	<24dBm
106	5530	17.45	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.13	17.06	16.96	16.86	16.78	16.70	16.62	16.54	16.46	16.40	<24dBm
138(Band3)	5690	18.04	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	4.95	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.79	20.7	20.6	20.53	20.48	20.41	20.32	20.27	20.19	20.09	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.64	17.54	17.48	17.41	17.33	17.23	17.18	17.12	17.07	17	<24dBm
58	5290	17.52	17.42	17.33	17.24	17.14	17.05	16.98	16.93	16.87	16.81	<24dBm
106	5530	17.19	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.34	17.26	17.17	17.09	17.04	16.99	16.90	16.80	16.70	16.64	<24dBm
138(Band3)	5690	16.35	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	1.98	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.02	19.95	19.85	19.80	19.75	19.70	19.60	19.51	19.44	19.35	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.19	17.13	17.05	16.95	16.89	16.81	16.72	16.64	16.55	16.5	<24dBm
58	5290	17.17	17.08	16.99	16.91	16.82	16.75	16.66	16.61	16.54	16.49	<24dBm
106	5530	18.16	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	18.66	18.59	18.53	18.44	18.34	18.27	18.19	18.12	18.03	17.97	<24dBm
138(Band3)	5690	18.34	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	4.22	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.91	20.82	20.74	20.66	20.61	20.56	20.46	20.36	20.28	20.18	<30dBm

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

**Maximum conducted output power Measurement
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit (dBm)	Result
42	5210	--	17.720	17.770	17.640	17.190	23.61	24	Pass
58	5290	--	17.510	17.480	17.520	17.170	23.44	24	Pass
106	5530	--	17.810	17.450	17.190	18.160	23.69	24	Pass
122	5610	--	17.690	17.130	17.340	18.660	23.77	24	Pass
138	5690	--	15.460	18.040	16.350	18.340	23.23	24	Pass
138ac80(Band4)	5690	--	2.020	4.950	1.980	4.220	9.51	30	Pass
155	5775	--	20.720	20.790	20.020	20.910	26.64	30	Pass

Note:

- Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
58	5290	11.180	11.370	11.200	11.050	17.22	Pass
106	5530	11.420	11.230	10.960	11.980	17.43	Pass
122	5610	11.470	10.800	11.000	12.370	17.47	Pass
138	5690	9.230	11.750	10.060	12.070	16.95	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.10)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.63	--	--	--	--	--	--	--	<24dBm
44	5220	20.98	20.88	20.83	20.75	20.67	20.57	20.47	20.38	<24dBm
48	5240	21.13	--	--	--	--	--	--	--	<24dBm
52	5260	21.6	--	--	--	--	--	--	--	<24dBm
60	5300	21.3	21.22	21.15	21.06	20.99	20.94	20.84	20.74	<24dBm
64	5320	21.21	--	--	--	--	--	--	--	<24dBm
100	5500	22.35	--	--	--	--	--	--	--	<24dBm
116	5580	21.89	21.84	21.79	21.7	21.63	21.58	21.52	21.46	<24dBm
140	5700	20.54	--	--	--	--	--	--	--	<24dBm
149	5745	20.47	--	--	--	--	--	--	--	<30dBm
157	5785	20.66	20.56	20.49	20.44	20.34	20.24	20.16	20.07	<30dBm
165	5825	20.73	--	--	--	--	--	--	--	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.54	--	--	--	--	--	--	--	<24dBm
44	5220	20.92	20.83	20.74	20.65	20.56	20.46	20.4	20.34	<24dBm
48	5240	21.04	--	--	--	--	--	--	--	<24dBm
52	5260	21.54	--	--	--	--	--	--	--	<24dBm
60	5300	21.24	21.19	21.09	21.03	20.94	20.89	20.79	20.71	<24dBm
64	5320	21.15	--	--	--	--	--	--	--	<24dBm
100	5500	22.29	--	--	--	--	--	--	--	<24dBm
116	5580	21.82	21.72	21.63	21.58	21.48	21.43	21.33	21.27	<24dBm
140	5700	20.49	--	--	--	--	--	--	--	<24dBm
149	5745	20.38	--	--	--	--	--	--	--	<30dBm
157	5785	20.61	20.53	20.48	20.42	20.33	20.27	20.17	20.12	<30dBm
165	5825	20.64	--	--	--	--	--	--	--	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.55	--	--	--	--	--	--	--	<24dBm
44	5220	20.93	20.87	20.8	20.71	20.64	20.56	20.47	20.4	<24dBm
48	5240	21.07	--	--	--	--	--	--	--	<24dBm
52	5260	21.55	--	--	--	--	--	--	--	<24dBm
60	5300	21.21	21.15	21.06	20.97	20.92	20.83	20.78	20.71	<24dBm
64	5320	21.16	--	--	--	--	--	--	--	<24dBm
100	5500	22.3	--	--	--	--	--	--	--	<24dBm
116	5580	21.8	21.7	21.62	21.54	21.47	21.4	21.35	21.28	<24dBm
140	5700	20.47	--	--	--	--	--	--	--	<24dBm
149	5745	20.37	--	--	--	--	--	--	--	<30dBm
157	5785	20.6	20.54	20.48	20.39	20.29	20.19	20.1	20.01	<30dBm
165	5825	20.66	--	--	--	--	--	--	--	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.58	--	--	--	--	--	--	--	<24dBm
44	5220	20.9	20.84	20.76	20.66	20.57	20.5	20.4	20.33	<24dBm
48	5240	21.03	--	--	--	--	--	--	--	<24dBm
52	5260	21.5	--	--	--	--	--	--	--	<24dBm
60	5300	21.24	21.17	21.11	21.02	20.97	20.87	20.79	20.72	<24dBm
64	5320	21.16	--	--	--	--	--	--	--	<24dBm
100	5500	22.28	--	--	--	--	--	--	--	<24dBm
116	5580	21.84	21.75	21.7	21.61	21.53	21.48	21.39	21.32	<24dBm
140	5700	20.49	--	--	--	--	--	--	--	<24dBm
149	5745	20.42	--	--	--	--	--	--	--	<30dBm
157	5785	20.61	20.53	20.45	20.38	20.3	20.24	20.19	20.11	<30dBm
165	5825	20.65	--	--	--	--	--	--	--	<30dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	20.63	--	--	--	20.63	24	Pass
44	5220	--	20.98	--	--	--	20.98	24	Pass
48	5240	--	21.13	--	--	--	21.13	24	Pass
52	5260	--	21.60	--	--	--	21.60	24	Pass
60	5300	--	21.30	--	--	--	21.30	24	Pass
64	5320	--	21.21	--	--	--	21.21	24	Pass
100	5500	--	22.35	--	--	--	22.35	24	Pass
116	5580	--	21.89	--	--	--	21.89	24	Pass
140	5700	--	20.54	--	--	--	20.54	24	Pass
149	5745	--	20.47	--	--	--	20.47	30	Pass
157	5785	--	20.66	--	--	--	20.66	30	Pass
165	5825	--	20.73	--	--	--	20.73	30	Pass

Note:

1. Power Output Value = Reading value on average power meter + cable loss

Maximum conducted output power Measurement with Transmit power Control (TPC)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	15.37	--	--	--	20.28	15.37
60	5300	14.96	--	--	--	20.11	14.96
64	5320	15.08	--	--	--	20.39	15.08
100	5500	16.02	--	--	--	20.57	16.02
116	5580	15.67	--	--	--	20.61	15.67
140	5700	14.31	--	--	--	20.46	14.31

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.10)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.58	--	--	--	--	--	--	--	<24dBm
44	5220	15.01	14.94	14.85	14.78	14.71	14.64	14.54	14.46	<24dBm
48	5240	14.56	--	--	--	--	--	--	--	<24dBm
52	5260	15.23	--	--	--	--	--	--	--	<24dBm
60	5300	14.97	14.88	14.81	14.72	14.65	14.55	14.47	14.37	<24dBm
64	5320	15.13	--	--	--	--	--	--	--	<24dBm
100	5500	15.31	--	--	--	--	--	--	--	<24dBm
116	5580	14.77	14.7	14.65	14.55	14.5	14.4	14.3	14.2	<24dBm
140	5700	13.3	--	--	--	--	--	--	--	<24dBm
149	5745	18.6	--	--	--	--	--	--	--	<30dBm
157	5785	18.26	18.16	18.06	18.01	17.94	17.85	17.76	17.7	<30dBm
165	5825	18.49	--	--	--	--	--	--	--	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.55	--	--	--	--	--	--	--	<24dBm
44	5220	14.8	14.7	14.65	14.59	14.52	14.45	14.38	14.33	<24dBm
48	5240	14.18	--	--	--	--	--	--	--	<24dBm
52	5260	14.69	--	--	--	--	--	--	--	<24dBm
60	5300	15.22	15.17	15.12	15.02	14.94	14.84	14.79	14.71	<24dBm
64	5320	15.62	--	--	--	--	--	--	--	<24dBm
100	5500	15.26	--	--	--	--	--	--	--	<24dBm
116	5580	14.44	14.35	14.26	14.19	14.09	13.99	13.94	13.86	<24dBm
140	5700	13.74	--	--	--	--	--	--	--	<24dBm
149	5745	20.36	--	--	--	--	--	--	--	<30dBm
157	5785	20.15	20.05	19.95	19.85	19.79	19.7	19.63	19.56	<30dBm
165	5825	19.84	--	--	--	--	--	--	--	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.61	--	--	--	--	--	--	--	<24dBm
44	5220	14.9	14.83	14.75	14.69	14.63	14.58	14.5	14.44	<24dBm
48	5240	14.59	--	--	--	--	--	--	--	<24dBm
52	5260	14.65	--	--	--	--	--	--	--	<24dBm
60	5300	14.79	14.74	14.64	14.56	14.51	14.44	14.38	14.31	<24dBm
64	5320	15.33	--	--	--	--	--	--	--	<24dBm
100	5500	14.13	--	--	--	--	--	--	--	<24dBm
116	5580	14.06	14.01	13.93	13.86	13.8	13.72	13.65	13.58	<24dBm
140	5700	13.72	--	--	--	--	--	--	--	<24dBm
149	5745	19.8	--	--	--	--	--	--	--	<30dBm
157	5785	19.93	19.84	19.76	19.66	19.58	19.49	19.4	19.35	<30dBm
165	5825	19.74	--	--	--	--	--	--	--	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	13.91	--	--	--	--	--	--	--	<24dBm
44	5220	14.39	14.32	14.24	14.17	14.12	14.07	14.01	13.93	<24dBm
48	5240	13.96	--	--	--	--	--	--	--	<24dBm
52	5260	14.26	--	--	--	--	--	--	--	<24dBm
60	5300	14.36	14.27	14.19	14.14	14.06	14.01	13.91	13.86	<24dBm
64	5320	14.81	--	--	--	--	--	--	--	<24dBm
100	5500	15.2	--	--	--	--	--	--	--	<24dBm
116	5580	15.28	15.23	15.15	15.08	15.02	14.95	14.89	14.79	<24dBm
140	5700	15.01	--	--	--	--	--	--	--	<24dBm
149	5745	19.32	--	--	--	--	--	--	--	<30dBm
157	5785	19.83	19.76	19.67	19.57	19.5	19.41	19.34	19.26	<30dBm
165	5825	19.66	--	--	--	--	--	--	--	<30dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	14.58	14.55	14.61	13.91	20.44	24	Pass
44	5220	--	15.01	14.80	14.90	14.39	20.80	24	Pass
48	5240	--	14.56	14.18	14.59	13.96	20.35	24	Pass
52	5260	--	15.23	14.69	14.65	14.26	20.74	24	Pass
60	5300	--	14.97	15.22	14.79	14.36	20.87	24	Pass
64	5320	--	15.13	15.62	15.33	14.81	21.25	24	Pass
100	5500	--	15.31	15.26	14.13	15.20	21.02	24	Pass
116	5580	--	14.77	14.44	14.06	15.28	20.68	24	Pass
140	5700	--	13.30	13.74	13.72	15.01	20.01	24	Pass
149	5745	--	18.60	20.36	19.80	19.32	25.59	30	Pass
157	5785	--	18.26	20.15	19.93	19.83	25.62	30	Pass
165	5825	--	18.49	19.84	19.74	19.66	25.49	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	8.92	8.47	8.54	7.87	14.49	Pass
60	5300	8.65	8.89	8.57	8.26	14.62	Pass
64	5320	8.74	9.33	9.01	8.58	14.94	Pass
100	5500	9.18	9.14	8.00	8.87	14.84	Pass
116	5580	8.49	8.06	7.84	8.97	14.38	Pass
140	5700	6.92	7.44	7.59	8.68	13.73	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.10)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.99	--	--	--	--	--	--	--	<24dBm
46	5230	17.52	17.47	17.38	17.31	17.22	17.13	17.07	16.98	<24dBm
54	5270	17.56	--	--	--	--	--	--	--	<24dBm
62	5310	17.33	17.28	17.23	17.15	17.05	16.95	16.88	16.79	<24dBm
102	5510	17.79	--	--	--	--	--	--	--	<24dBm
110	5550	17.62	17.52	17.46	17.41	17.35	17.3	17.22	17.17	<24dBm
134	5670	16.82	--	--	--	--	--	--	--	<24dBm
151	5755	18.84	--	--	--	--	--	--	--	<30dBm
159	5795	18.13	18.06	17.99	17.89	17.82	17.77	17.69	17.59	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	18.01	--	--	--	--	--	--	--	<24dBm
46	5230	17.26	17.17	17.08	17	16.92	16.84	16.77	16.69	<24dBm
54	5270	17.23	--	--	--	--	--	--	--	<24dBm
62	5310	17.48	17.38	17.32	17.25	17.2	17.1	17	16.92	<24dBm
102	5510	17.44	--	--	--	--	--	--	--	<24dBm
110	5550	17.09	17.04	16.95	16.86	16.81	16.76	16.69	16.64	<24dBm
134	5670	16.76	--	--	--	--	--	--	--	<24dBm
151	5755	19.33	--	--	--	--	--	--	--	<30dBm
159	5795	20.23	20.16	20.11	20.01	19.92	19.87	19.79	19.69	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	18.02	--	--	--	--	--	--	--	<24dBm
46	5230	17.74	17.69	17.62	17.53	17.43	17.38	17.33	17.28	<24dBm
54	5270	17.46	--	--	--	--	--	--	--	<24dBm
62	5310	17.56	17.49	17.43	17.33	17.23	17.14	17.07	16.98	<24dBm
102	5510	16.98	--	--	--	--	--	--	--	<24dBm
110	5550	16.94	16.87	16.77	16.68	16.63	16.58	16.48	16.39	<24dBm
134	5670	17.01	--	--	--	--	--	--	--	<24dBm
151	5755	18.88	--	--	--	--	--	--	--	<30dBm
159	5795	19.88	19.81	19.71	19.65	19.6	19.53	19.45	19.38	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.44	--	--	--	--	--	--	--	<24dBm
46	5230	17.18	17.12	17.02	16.97	16.87	16.77	16.71	16.62	<24dBm
54	5270	17.05	--	--	--	--	--	--	--	<24dBm
62	5310	16.98	16.93	16.83	16.78	16.72	16.64	16.58	16.48	<24dBm
102	5510	17.95	--	--	--	--	--	--	--	<24dBm
110	5550	18.11	18.04	17.96	17.88	17.81	17.76	17.67	17.57	<24dBm
134	5670	17.89	--	--	--	--	--	--	--	<24dBm
151	5755	19.7	--	--	--	--	--	--	--	<30dBm
159	5795	19.76	19.71	19.63	19.56	19.47	19.4	19.31	19.25	<30dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	17.99	18.01	18.02	17.44	23.89	24	Pass
46	5230	--	17.52	17.26	17.74	17.18	23.45	24	Pass
54	5270	--	17.56	17.23	17.46	17.05	23.35	24	Pass
62	5310	--	17.33	17.48	17.56	16.98	23.36	24	Pass
102	5510	--	17.79	17.44	16.98	17.95	23.58	24	Pass
110	5550	--	17.62	17.09	16.94	18.11	23.49	24	Pass
134	5670	--	16.82	16.76	17.01	17.89	23.17	24	Pass
151	5755	--	18.84	19.33	18.88	19.70	25.22	30	Pass
159	5795	--	18.13	20.23	19.88	19.76	25.59	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	11.34	11.10	11.33	10.92	17.20	Pass
62	5310	11.00	11.26	11.33	10.76	17.11	Pass
102	5510	11.48	11.13	10.64	11.62	17.25	Pass
110	5550	11.29	10.87	10.62	11.98	17.24	Pass
134	5670	10.60	10.57	10.66	11.58	16.89	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.10)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.98	13.92	13.83	13.76	13.7	13.62	13.53	13.44	13.37	<24dBm
144 (Band4)	5720	8.15	8.09	7.99	7.9	7.8	7.73	7.64	7.59	7.53	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.77	13.7	13.65	13.55	13.49	13.44	13.37	13.3	13.23	<24dBm
144 (Band4)	5720	8.24	8.14	8.04	7.97	7.91	7.85	7.78	7.68	7.58	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.91	13.81	13.74	13.66	13.57	13.47	13.39	13.3	13.22	<24dBm
144 (Band4)	5720	8.19	8.13	8.03	7.95	7.87	7.78	7.68	7.58	7.51	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.95	13.87	13.81	13.71	13.61	13.54	13.45	13.39	13.31	<24dBm
144 (Band4)	5720	8.27	8.22	8.15	8.07	8.02	7.97	7.9	7.85	7.76	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
144(Band3)	5720	--	13.980	13.770	13.910	13.950	19.88	24	Pass
144(Band4)	5720	--	8.150	8.240	8.190	8.270	14.23	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
144(Band3)	5720	7.760	7.660	7.580	7.660	13.69	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.10)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.39	17.29	17.21	17.12	17.07	16.98	16.92	16.85	16.77	16.7	<24dBm
142F(Band4)	5710	6.81	6.72	6.67	6.59	6.53	6.46	6.39	6.33	6.28	6.2	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.35	17.26	17.19	17.13	17.05	17	16.92	16.86	16.77	16.7	<24dBm
142F(Band4)	5710	6.79	6.74	6.66	6.6	6.54	6.48	6.41	6.34	6.25	6.16	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.21	17.11	17.03	16.95	16.86	16.76	16.7	16.61	16.56	16.5	<24dBm
142F(Band4)	5710	6.78	6.71	6.61	6.51	6.45	6.35	6.25	6.16	6.07	6.01	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.41	17.32	17.23	17.16	17.06	16.99	16.89	16.79	16.74	16.69	<24dBm
142F(Band4)	5710	6.67	6.62	6.57	6.51	6.41	6.32	6.23	6.17	6.08	6	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
142F(Band3)	5710	--	17.390	17.350	17.21	17.41	23.36	24	Pass
142F(Band4)	5710	--	6.810	6.790	6.78	6.67	12.78	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
142(Band3)	5710	11.100	11.010	11.10	11.19	17.12	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.10)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.72	17.66	17.6	17.51	17.43	17.38	17.30	17.2	17.11	17.04	<24dBm
58	5290	17.42	17.33	17.28	17.22	17.15	17.05	16.97	16.91	16.83	16.78	<24dBm
106	5530	17.68	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.6	17.53	17.48	17.42	17.33	17.28	17.22	17.15	17.08	16.99	<24dBm
138(Band3)	5690	15.49	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	2.04	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.77	20.68	20.59	20.52	20.45	20.39	20.30	20.23	20.13	20.06	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.83	17.77	17.67	17.58	17.53	17.45	17.36	17.28	17.21	17.16	<24dBm
58	5290	17.33	17.26	17.17	17.08	16.99	16.93	16.84	16.76	16.68	16.62	<24dBm
106	5530	17.33	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.06	16.97	16.89	16.82	16.77	16.67	16.62	16.56	16.48	16.42	<24dBm
138(Band3)	5690	18.05	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	4.97	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.9	20.81	20.74	20.69	20.62	20.57	20.48	20.40	20.32	20.24	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.66	17.56	17.47	17.4	17.30	17.23	17.18	17.13	17.03	16.96	<24dBm
58	5290	17.42	17.35	17.29	17.19	17.09	17.01	16.91	16.85	16.76	16.68	<24dBm
106	5530	17.1	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.29	17.23	17.17	17.09	17.02	16.96	16.86	16.77	16.71	16.64	<24dBm
138(Band3)	5690	16.34	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	1.98	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	19.97	19.87	19.81	19.76	19.68	19.59	19.51	19.43	19.33	19.24	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.21	17.15	17.06	17.01	16.92	16.87	16.79	16.7	16.60	16.54	<24dBm
58	5290	17.08	16.99	16.92	16.86	16.76	16.70	16.63	16.53	16.44	16.39	<24dBm
106	5530	18.04	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	18.56	18.47	18.39	18.33	18.23	18.18	18.08	17.99	17.94	17.84	<24dBm
138(Band3)	5690	18.28	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	4.36	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.87	20.82	20.77	20.69	20.63	20.54	20.44	20.37	20.30	20.22	<30dBm

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

**Maximum conducted output power Measurement
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit (dBm)	Result
42	5210	--	17.720	17.830	17.660	17.210	23.63	24	Pass
58	5290	--	17.420	17.330	17.420	17.080	23.34	24	Pass
106	5530	--	17.680	17.330	17.100	18.040	23.57	24	Pass
122	5610	--	17.600	17.060	17.290	18.560	23.69	24	Pass
138	5690	--	15.490	18.050	16.340	18.280	23.21	24	Pass
138ac80(Band4)	5690	--	2.040	4.970	1.980	4.360	9.56	30	Pass
155	5775	--	20.770	20.900	19.970	20.870	26.66	30	Pass

Note:

- Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
58	5290	11.120	11.130	11.080	10.780	17.05	Pass
106	5530	11.300	11.200	10.920	11.910	17.37	Pass
122	5610	11.370	10.810	11.180	12.250	17.46	Pass
138	5690	9.250	11.750	10.140	12.060	16.97	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.11)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.6	--	--	--	--	--	--	--	<23.7dBm
44	5220	21.01	20.93	20.84	20.78	20.72	20.64	20.57	20.48	<23.7dBm
48	5240	21.11	--	--	--	--	--	--	--	<23.7dBm
52	5260	21.52	--	--	--	--	--	--	--	<23.7dBm
60	5300	21.31	21.24	21.17	21.11	21.04	20.98	20.92	20.82	<23.7dBm
64	5320	21.18	--	--	--	--	--	--	--	<23.7dBm
100	5500	22.33	--	--	--	--	--	--	--	<23.7dBm
116	5580	21.86	21.78	21.72	21.64	21.56	21.48	21.4	21.33	<23.7dBm
140	5700	20.5	--	--	--	--	--	--	--	<23.7dBm
149	5745	20.46	--	--	--	--	--	--	--	<29.7dBm
157	5785	20.75	20.7	20.62	20.53	20.48	20.4	20.33	20.23	<29.7dBm
165	5825	20.78	--	--	--	--	--	--	--	<29.7dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.53	--	--	--	--	--	--	--	<23.7dBm
44	5220	20.92	20.87	20.77	20.71	20.65	20.57	20.5	20.42	<23.7dBm
48	5240	21.05	--	--	--	--	--	--	--	<23.7dBm
52	5260	21.46	--	--	--	--	--	--	--	<23.7dBm
60	5300	21.25	21.19	21.13	21.08	21.01	20.91	20.82	20.75	<23.7dBm
64	5320	21.09	--	--	--	--	--	--	--	<23.7dBm
100	5500	22.28	--	--	--	--	--	--	--	<23.7dBm
116	5580	21.76	21.7	21.61	21.55	21.45	21.39	21.33	21.25	<23.7dBm
140	5700	20.44	--	--	--	--	--	--	--	<23.7dBm
149	5745	20.39	--	--	--	--	--	--	--	<29.7dBm
157	5785	20.68	20.6	20.5	20.45	20.35	20.29	20.19	20.1	<29.7dBm
165	5825	20.72	--	--	--	--	--	--	--	<29.7dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.54	--	--	--	--	--	--	--	<23.7dBm
44	5220	20.91	20.86	20.8	20.73	20.63	20.55	20.45	20.39	<23.7dBm
48	5240	21.01	--	--	--	--	--	--	--	<23.7dBm
52	5260	21.47	--	--	--	--	--	--	--	<23.7dBm
60	5300	21.26	21.19	21.13	21.06	20.99	20.91	20.81	20.71	<23.7dBm
64	5320	21.12	--	--	--	--	--	--	--	<23.7dBm
100	5500	22.28	--	--	--	--	--	--	--	<23.7dBm
116	5580	21.79	21.74	21.69	21.63	21.53	21.43	21.37	21.29	<23.7dBm
140	5700	20.41	--	--	--	--	--	--	--	<23.7dBm
149	5745	20.4	--	--	--	--	--	--	--	<29.7dBm
157	5785	20.7	20.64	20.54	20.45	20.35	20.29	20.24	20.18	<29.7dBm
165	5825	20.72	--	--	--	--	--	--	--	<29.7dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.51	--	--	--	--	--	--	--	<23.7dBm
44	5220	20.91	20.82	20.72	20.65	20.55	20.49	20.41	20.31	<23.7dBm
48	5240	21.03	--	--	--	--	--	--	--	<23.7dBm
52	5260	21.47	--	--	--	--	--	--	--	<23.7dBm
60	5300	21.21	21.11	21.06	20.98	20.88	20.79	20.74	20.66	<23.7dBm
64	5320	21.1	--	--	--	--	--	--	--	<23.7dBm
100	5500	22.27	--	--	--	--	--	--	--	<23.7dBm
116	5580	21.79	21.74	21.68	21.63	21.53	21.46	21.38	21.29	<23.7dBm
140	5700	20.45	--	--	--	--	--	--	--	<23.7dBm
149	5745	20.37	--	--	--	--	--	--	--	<29.7dBm
157	5785	20.69	20.59	20.49	20.44	20.39	20.3	20.25	20.19	<29.7dBm
165	5825	20.72	--	--	--	--	--	--	--	<29.7dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	20.60	--	--	--	20.60	23.7	Pass
44	5220	--	21.01	--	--	--	21.01	23.7	Pass
48	5240	--	21.11	--	--	--	21.11	23.7	Pass
52	5260	--	21.52	--	--	--	21.52	23.7	Pass
60	5300	--	21.31	--	--	--	21.31	23.7	Pass
64	5320	--	21.18	--	--	--	21.18	23.7	Pass
100	5500	--	22.33	--	--	--	22.33	23.7	Pass
116	5580	--	21.86	--	--	--	21.86	23.7	Pass
140	5700	--	20.50	--	--	--	20.50	23.7	Pass
149	5745	--	20.46	--	--	--	20.46	29.7	Pass
157	5785	--	20.75	--	--	--	20.75	29.7	Pass
165	5825	--	20.78	--	--	--	20.78	29.7	Pass

Note:

1. Power Output Value = Reading value on average power meter + cable loss

Maximum conducted output power Measurement with Transmit power Control (TPC)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	15.23	--	--	--	15.23	Pass
60	5300	14.93	--	--	--	14.93	Pass
64	5320	15.05	--	--	--	15.05	Pass
100	5500	16.11	--	--	--	16.11	Pass
116	5580	15.53	--	--	--	15.53	Pass
140	5700	14.12	--	--	--	14.12	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.11)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.43	--	--	--	--	--	--	--	<23.7dBm
44	5220	14.83	14.73	14.64	14.58	14.53	14.48	14.39	14.3	<23.7dBm
48	5240	14.5	--	--	--	--	--	--	--	<23.7dBm
52	5260	15.03	--	--	--	--	--	--	--	<23.7dBm
60	5300	14.81	14.72	14.66	14.57	14.51	14.43	14.35	14.3	<23.7dBm
64	5320	15.02	--	--	--	--	--	--	--	<23.7dBm
100	5500	15.31	--	--	--	--	--	--	--	<23.7dBm
116	5580	14.86	14.78	14.72	14.63	14.55	14.47	14.37	14.32	<23.7dBm
140	5700	13.69	--	--	--	--	--	--	--	<23.7dBm
149	5745	18.57	--	--	--	--	--	--	--	<29.7dBm
157	5785	18.31	18.23	18.16	18.07	18	17.91	17.85	17.78	<29.7dBm
165	5825	18.45	--	--	--	--	--	--	--	<29.7dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.46	--	--	--	--	--	--	--	<23.7dBm
44	5220	14.65	14.55	14.5	14.45	14.36	14.29	14.19	14.1	<23.7dBm
48	5240	14.02	--	--	--	--	--	--	--	<23.7dBm
52	5260	14.59	--	--	--	--	--	--	--	<23.7dBm
60	5300	15.03	14.96	14.89	14.82	14.73	14.64	14.58	14.53	<23.7dBm
64	5320	15.58	--	--	--	--	--	--	--	<23.7dBm
100	5500	15.17	--	--	--	--	--	--	--	<23.7dBm
116	5580	14.32	14.27	14.21	14.12	14.06	14	13.9	13.84	<23.7dBm
140	5700	13.97	--	--	--	--	--	--	--	<23.7dBm
149	5745	20.38	--	--	--	--	--	--	--	<29.7dBm
157	5785	20.14	20.06	20.01	19.91	19.81	19.72	19.66	19.59	<29.7dBm
165	5825	19.82	--	--	--	--	--	--	--	<29.7dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.44	--	--	--	--	--	--	--	<23.7dBm
44	5220	14.71	14.63	14.56	14.46	14.39	14.3	14.21	14.12	<23.7dBm
48	5240	14.47	--	--	--	--	--	--	--	<23.7dBm
52	5260	14.62	--	--	--	--	--	--	--	<23.7dBm
60	5300	14.57	14.47	14.42	14.35	14.26	14.21	14.15	14.07	<23.7dBm
64	5320	15.28	--	--	--	--	--	--	--	<23.7dBm
100	5500	14.56	--	--	--	--	--	--	--	<23.7dBm
116	5580	13.95	13.9	13.83	13.73	13.66	13.59	13.51	13.45	<23.7dBm
140	5700	13.51	--	--	--	--	--	--	--	<23.7dBm
149	5745	19.74	--	--	--	--	--	--	--	<29.7dBm
157	5785	20.03	19.96	19.89	19.81	19.76	19.71	19.65	19.6	<29.7dBm
165	5825	19.68	--	--	--	--	--	--	--	<29.7dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	13.82	--	--	--	--	--	--	--	<23.7dBm
44	5220	14.31	14.22	14.16	14.09	13.99	13.92	13.83	13.77	<23.7dBm
48	5240	13.88	--	--	--	--	--	--	--	<23.7dBm
52	5260	14.61	--	--	--	--	--	--	--	<23.7dBm
60	5300	14.55	14.45	14.38	14.33	14.23	14.15	14.07	14	<23.7dBm
64	5320	15.36	--	--	--	--	--	--	--	<23.7dBm
100	5500	15.81	--	--	--	--	--	--	--	<23.7dBm
116	5580	15.87	15.77	15.69	15.61	15.54	15.46	15.39	15.33	<23.7dBm
140	5700	15.61	--	--	--	--	--	--	--	<23.7dBm
149	5745	19.29	--	--	--	--	--	--	--	<29.7dBm
157	5785	19.81	19.75	19.66	19.57	19.47	19.41	19.35	19.26	<29.7dBm
165	5825	19.73	--	--	--	--	--	--	--	<29.7dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	14.43	14.46	14.44	13.82	20.32	23.7	Pass
44	5220	--	14.83	14.65	14.71	14.31	20.65	23.7	Pass
48	5240	--	14.50	14.02	14.47	13.88	20.25	23.7	Pass
52	5260	--	15.03	14.59	14.62	14.61	20.74	23.7	Pass
60	5300	--	14.81	15.03	14.57	14.55	20.77	23.7	Pass
64	5320	--	15.02	15.58	15.28	15.36	21.34	23.7	Pass
100	5500	--	15.31	15.17	14.56	15.81	21.26	23.7	Pass
116	5580	--	14.86	14.32	13.95	15.87	20.83	23.7	Pass
140	5700	--	13.69	13.97	13.51	15.61	20.30	23.7	Pass
149	5745	--	18.57	20.38	19.74	19.29	25.57	29.7	Pass
157	5785	--	18.31	20.14	20.03	19.81	25.65	29.7	Pass
165	5825	--	18.45	19.82	19.68	19.73	25.48	29.7	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	8.90	8.48	8.40	8.26	14.54	Pass
60	5300	8.62	8.74	8.44	8.42	14.58	Pass
64	5320	8.71	9.27	8.96	9.14	15.05	Pass
100	5500	9.09	8.79	8.43	9.58	15.01	Pass
116	5580	8.73	8.10	7.72	9.52	14.59	Pass
140	5700	7.37	7.84	7.18	9.31	14.03	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.11)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.52	--	--	--	--	--	--	--	<23.7dBm
46	5230	17.47	17.38	17.29	17.19	17.12	17.03	16.95	16.86	<23.7dBm
54	5270	17.5	--	--	--	--	--	--	--	<23.7dBm
62	5310	17.32	17.26	17.17	17.1	17.01	16.94	16.85	16.75	<23.7dBm
102	5510	17.78	--	--	--	--	--	--	--	<23.7dBm
110	5550	17.41	17.34	17.25	17.17	17.1	17.02	16.94	16.88	<23.7dBm
134	5670	16.72	--	--	--	--	--	--	--	<23.7dBm
151	5755	18.86	--	--	--	--	--	--	--	<29.7dBm
159	5795	18.25	18.17	18.07	17.97	17.9	17.82	17.72	17.63	<29.7dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.57	--	--	--	--	--	--	--	<23.7dBm
46	5230	17.23	17.18	17.09	16.99	16.89	16.82	16.75	16.7	<23.7dBm
54	5270	17.22	--	--	--	--	--	--	--	<23.7dBm
62	5310	17.48	17.43	17.34	17.26	17.19	17.11	17.03	16.94	<23.7dBm
102	5510	17.4	--	--	--	--	--	--	--	<23.7dBm
110	5550	17.01	16.96	16.87	16.79	16.72	16.62	16.52	16.45	<23.7dBm
134	5670	16.62	--	--	--	--	--	--	--	<23.7dBm
151	5755	19.23	--	--	--	--	--	--	--	<29.7dBm
159	5795	20.2	20.1	20.04	19.95	19.86	19.77	19.69	19.64	<29.7dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.48	--	--	--	--	--	--	--	<23.7dBm
46	5230	17.63	17.55	17.5	17.45	17.36	17.3	17.23	17.14	<23.7dBm
54	5270	17.41	--	--	--	--	--	--	--	<23.7dBm
62	5310	17.49	17.42	17.33	17.27	17.19	17.1	17.03	16.93	<23.7dBm
102	5510	16.9	--	--	--	--	--	--	--	<23.7dBm
110	5550	16.79	16.7	16.61	16.52	16.42	16.37	16.32	16.27	<23.7dBm
134	5670	16.84	--	--	--	--	--	--	--	<23.7dBm
151	5755	18.8	--	--	--	--	--	--	--	<29.7dBm
159	5795	19.92	19.85	19.8	19.74	19.69	19.59	19.53	19.48	<29.7dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	16.96	--	--	--	--	--	--	--	<23.7dBm
46	5230	17.02	16.96	16.88	16.83	16.77	16.71	16.65	16.57	<23.7dBm
54	5270	17.13	--	--	--	--	--	--	--	<23.7dBm
62	5310	17.03	16.96	16.9	16.8	16.72	16.63	16.56	16.51	<23.7dBm
102	5510	17.86	--	--	--	--	--	--	--	<23.7dBm
110	5550	17.89	17.84	17.74	17.68	17.61	17.52	17.42	17.37	<23.7dBm
134	5670	17.8	--	--	--	--	--	--	--	<23.7dBm
151	5755	19.72	--	--	--	--	--	--	--	<29.7dBm
159	5795	19.69	19.59	19.54	19.48	19.38	19.29	19.22	19.14	<29.7dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	17.52	17.57	17.48	16.96	23.41	23.7	Pass
46	5230	--	17.47	17.23	17.63	17.02	23.36	23.7	Pass
54	5270	--	17.50	17.22	17.41	17.13	23.34	23.7	Pass
62	5310	--	17.32	17.48	17.49	17.03	23.35	23.7	Pass
102	5510	--	17.78	17.40	16.90	17.86	23.52	23.7	Pass
110	5550	--	17.41	17.01	16.79	17.89	23.32	23.7	Pass
134	5670	--	16.72	16.62	16.84	17.80	23.04	23.7	Pass
151	5755	--	18.86	19.23	18.80	19.72	25.19	29.7	Pass
159	5795	--	18.25	20.20	19.92	19.69	25.60	29.7	Pass

Note:

- Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	11.27	11.00	11.28	11.02	17.17	Pass
62	5310	10.99	11.17	11.17	10.90	17.08	Pass
102	5510	11.43	11.28	10.61	11.51	17.24	Pass
110	5550	11.18	10.73	10.57	11.60	17.06	Pass
134	5670	10.59	10.40	10.53	11.60	16.83	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.11)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.28	13.19	13.1	13	12.93	12.88	12.79	12.7	12.64	<23.7dBm
144 (Band4)	5720	7.66	7.58	7.48	7.4	7.31	7.25	7.19	7.13	7.07	<29.7dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.39	13.3	13.2	13.15	13.09	13.01	12.92	12.83	12.74	<23.7dBm
144 (Band4)	5720	7.59	7.5	7.45	7.4	7.32	7.25	7.17	7.11	7.04	<29.7dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.34	13.25	13.18	13.12	13.07	12.97	12.88	12.83	12.74	<23.7dBm
144 (Band4)	5720	7.51	7.41	7.33	7.23	7.15	7.1	7.04	6.95	6.9	<29.7dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.44	13.34	13.28	13.2	13.1	13.02	12.97	12.89	12.81	<23.7dBm
144 (Band4)	5720	7.49	7.39	7.34	7.26	7.21	7.12	7.06	7.01	6.92	<29.7dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
144(Band3)	5720	--	13.280	13.390	13.340	13.440	19.37	23.7	Pass
144(Band4)	5720	--	7.660	7.590	7.510	7.490	13.58	29.7	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
144(Band3)	5720	7.060	7.060	7.050	7.150	13.08	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.11)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.65	16.56	16.48	16.43	16.37	16.28	16.18	16.11	16.02	15.92	<23.7dBm
142F(Band4)	5710	6.23	6.13	6.05	5.99	5.9	5.8	5.74	5.65	5.58	5.5	<29.7dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.72	16.67	16.61	16.54	16.46	16.41	16.33	16.23	16.14	16.06	<23.7dBm
142F(Band4)	5710	6.19	6.11	6.01	5.91	5.86	5.8	5.73	5.65	5.6	5.52	<29.7dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.81	16.72	16.65	16.59	16.53	16.48	16.4	16.34	16.26	16.18	<23.7dBm
142F(Band4)	5710	6.29	6.22	6.16	6.1	6.03	5.98	5.9	5.83	5.74	5.64	<29.7dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.58	16.53	16.44	16.38	16.3	16.22	16.14	16.08	16.03	15.94	<23.7dBm
142F(Band4)	5710	6.37	6.27	6.21	6.14	6.04	5.94	5.88	5.79	5.74	5.66	<29.7dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
142F(Band3)	5710	--	16.650	16.720	16.81	16.58	22.71	23.7	Pass
142F(Band4)	5710	--	6.230	6.190	6.29	6.37	12.29	29.7	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
142(Band3)	5710	10.420	10.610	10.68	10.36	16.54	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.11)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.23	17.17	17.11	17.04	16.97	16.87	16.82	16.72	16.64	16.54	<23.7dBm
58	5290	16.95	16.9	16.81	16.71	16.61	16.54	16.45	16.39	16.34	16.24	<29.7dBm
106	5530	17.18	--	--	--	--	--	--	--	--	--	<23.7dBm
122	5610	17.1	17.05	16.97	16.87	16.79	16.71	16.63	16.57	16.50	16.43	<23.7dBm
138(Band3)	5690	15.44	--	--	--	--	--	--	--	--	--	<23.7dBm
138(Band4)	5690	2.02	--	--	--	--	--	--	--	--	--	<29.7dBm
155	5775	20.71	20.65	20.59	20.54	20.49	20.40	20.33	20.27	20.20	20.10	<29.7dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.31	17.22	17.14	17.09	17.02	16.92	16.83	16.74	16.68	16.62	<23.7dBm
58	5290	16.9	16.81	16.72	16.66	16.56	16.50	16.45	16.39	16.33	16.27	<29.7dBm
106	5530	16.87	--	--	--	--	--	--	--	--	--	<23.7dBm
122	5610	16.49	16.41	16.35	16.26	16.20	16.11	16.06	15.98	15.91	15.82	<23.7dBm
138(Band3)	5690	18.13	--	--	--	--	--	--	--	--	--	<23.7dBm
138(Band4)	5690	4.93	--	--	--	--	--	--	--	--	--	<29.7dBm
155	5775	20.91	20.82	20.76	20.66	20.61	20.56	20.51	20.42	20.34	20.28	<29.7dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.14	17.08	17.01	16.94	16.87	16.82	16.74	16.64	16.58	16.52	<23.7dBm
58	5290	16.91	16.81	16.72	16.65	16.56	16.51	16.41	16.34	16.26	16.18	<29.7dBm
106	5530	16.6	--	--	--	--	--	--	--	--	--	<23.7dBm
122	5610	16.71	16.63	16.57	16.51	16.41	16.34	16.24	16.18	16.12	16.04	<23.7dBm
138(Band3)	5690	16.42	--	--	--	--	--	--	--	--	--	<23.7dBm
138(Band4)	5690	2.05	--	--	--	--	--	--	--	--	--	<29.7dBm
155	5775	19.92	19.85	19.77	19.67	19.58	19.51	19.43	19.34	19.28	19.23	<29.7dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	16.72	16.63	16.57	16.49	16.39	16.31	16.21	16.11	16.01	15.96	<23.7dBm
58	5290	16.56	16.49	16.39	16.30	16.24	16.17	16.12	16.03	15.93	15.83	<29.7dBm
106	5530	17.6	--	--	--	--	--	--	--	--	--	<23.7dBm
122	5610	18.1	18.01	17.93	17.88	17.78	17.70	17.65	17.57	17.48	17.38	<23.7dBm
138(Band3)	5690	18.38	--	--	--	--	--	--	--	--	--	<23.7dBm
138(Band4)	5690	4.36	--	--	--	--	--	--	--	--	--	<29.7dBm
155	5775	20.8	20.72	20.62	20.56	20.50	20.43	20.37	20.29	20.23	20.13	<29.7dBm

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

**Maximum conducted output power Measurement
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
42	5210	--	17.230	17.310	17.140	16.720	23.13	23.7	Pass
58	5290	--	16.950	16.900	16.910	16.560	22.85	23.7	Pass
106	5530	--	17.180	16.870	16.600	17.600	23.10	23.7	Pass
122	5610	--	17.100	16.490	16.710	18.100	23.17	23.7	Pass
138	5690	--	15.440	18.130	16.420	18.380	23.28	23.7	Pass
138ac80(Band4)	5690	--	2.020	4.930	2.050	4.360	9.56	29.7	Pass
155	5775	--	20.710	20.910	19.920	20.800	26.62	29.7	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
58	5290	10.840	10.780	10.750	10.250	16.68	Pass
106	5530	10.850	10.630	10.300	11.400	16.83	Pass
122	5610	10.810	10.240	10.370	11.770	16.86	Pass
138	5690	9.100	11.790	10.150	12.040	16.95	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.12)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.58	--	--	--	--	--	--	--	<24dBm
44	5220	20.99	20.94	20.87	20.78	20.7	20.63	20.55	20.49	<24dBm
48	5240	21.04	--	--	--	--	--	--	--	<24dBm
52	5260	21.6	--	--	--	--	--	--	--	<24dBm
60	5300	21.39	21.34	21.28	21.21	21.15	21.1	21.03	20.96	<24dBm
64	5320	21.19	--	--	--	--	--	--	--	<24dBm
100	5500	22.37	--	--	--	--	--	--	--	<24dBm
116	5580	21.92	21.87	21.81	21.72	21.66	21.58	21.53	21.47	<24dBm
140	5700	20.51	--	--	--	--	--	--	--	<24dBm
149	5745	20.51	--	--	--	--	--	--	--	<30dBm
157	5785	20.69	20.6	20.54	20.47	20.39	20.31	20.25	20.2	<30dBm
165	5825	20.77	--	--	--	--	--	--	--	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.5	--	--	--	--	--	--	--	<24dBm
44	5220	20.9	20.84	20.75	20.65	20.6	20.52	20.44	20.34	<24dBm
48	5240	20.95	--	--	--	--	--	--	--	<24dBm
52	5260	21.53	--	--	--	--	--	--	--	<24dBm
60	5300	21.3	21.23	21.16	21.08	20.98	20.91	20.81	20.74	<24dBm
64	5320	21.14	--	--	--	--	--	--	--	<24dBm
100	5500	22.27	--	--	--	--	--	--	--	<24dBm
116	5580	21.86	21.8	21.73	21.65	21.58	21.52	21.46	21.37	<24dBm
140	5700	20.46	--	--	--	--	--	--	--	<24dBm
149	5745	20.41	--	--	--	--	--	--	--	<30dBm
157	5785	20.6	20.54	20.45	20.35	20.27	20.19	20.14	20.06	<30dBm
165	5825	20.7	--	--	--	--	--	--	--	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.5	--	--	--	--	--	--	--	<24dBm
44	5220	20.92	20.85	20.78	20.71	20.65	20.6	20.51	20.45	<24dBm
48	5240	20.94	--	--	--	--	--	--	--	<24dBm
52	5260	21.51	--	--	--	--	--	--	--	<24dBm
60	5300	21.34	21.25	21.17	21.12	21.03	20.96	20.87	20.82	<24dBm
64	5320	21.14	--	--	--	--	--	--	--	<24dBm
100	5500	22.28	--	--	--	--	--	--	--	<24dBm
116	5580	21.84	21.78	21.73	21.64	21.58	21.48	21.41	21.34	<24dBm
140	5700	20.42	--	--	--	--	--	--	--	<24dBm
149	5745	20.43	--	--	--	--	--	--	--	<30dBm
157	5785	20.61	20.55	20.48	20.43	20.38	20.31	20.22	20.17	<30dBm
165	5825	20.72	--	--	--	--	--	--	--	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.51	--	--	--	--	--	--	--	<24dBm
44	5220	20.93	20.83	20.75	20.68	20.59	20.52	20.42	20.32	<24dBm
48	5240	20.96	--	--	--	--	--	--	--	<24dBm
52	5260	21.55	--	--	--	--	--	--	--	<24dBm
60	5300	21.29	21.2	21.12	21.04	20.98	20.92	20.82	20.77	<24dBm
64	5320	21.09	--	--	--	--	--	--	--	<24dBm
100	5500	22.32	--	--	--	--	--	--	--	<24dBm
116	5580	21.84	21.75	21.67	21.57	21.47	21.39	21.3	21.23	<24dBm
140	5700	20.42	--	--	--	--	--	--	--	<24dBm
149	5745	20.46	--	--	--	--	--	--	--	<30dBm
157	5785	20.64	20.57	20.52	20.47	20.38	20.3	20.23	20.15	<30dBm
165	5825	20.68	--	--	--	--	--	--	--	<30dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	20.58	--	--	--	20.58	24	Pass
44	5220	--	20.99	--	--	--	20.99	24	Pass
48	5240	--	21.04	--	--	--	21.04	24	Pass
52	5260	--	21.60	--	--	--	21.60	24	Pass
60	5300	--	21.39	--	--	--	21.39	24	Pass
64	5320	--	21.19	--	--	--	21.19	24	Pass
100	5500	--	22.37	--	--	--	22.37	24	Pass
116	5580	--	21.92	--	--	--	21.92	24	Pass
140	5700	--	20.51	--	--	--	20.51	24	Pass
149	5745	--	20.51	--	--	--	20.51	30	Pass
157	5785	--	20.69	--	--	--	20.69	30	Pass
165	5825	--	20.77	--	--	--	20.77	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	15.44	--	--	--	15.44	Pass
60	5300	15.06	--	--	--	15.06	Pass
64	5320	14.90	--	--	--	14.90	Pass
100	5500	16.24	--	--	--	16.24	Pass
116	5580	15.69	--	--	--	15.69	Pass
140	5700	14.13	--	--	--	14.13	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.12)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.57	--	--	--	--	--	--	--	<24dBm
44	5220	15.02	14.92	14.87	14.82	14.74	14.69	14.64	14.59	<24dBm
48	5240	14.56	--	--	--	--	--	--	--	<24dBm
52	5260	15.15	--	--	--	--	--	--	--	<24dBm
60	5300	14.91	14.81	14.75	14.7	14.65	14.59	14.52	14.47	<24dBm
64	5320	15.12	--	--	--	--	--	--	--	<24dBm
100	5500	15.32	--	--	--	--	--	--	--	<24dBm
116	5580	14.82	14.77	14.72	14.67	14.62	14.54	14.49	14.4	<24dBm
140	5700	13.27	--	--	--	--	--	--	--	<24dBm
149	5745	18.55	--	--	--	--	--	--	--	<30dBm
157	5785	18.31	18.21	18.14	18.07	17.99	17.89	17.8	17.75	<30dBm
165	5825	18.42	--	--	--	--	--	--	--	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.52	--	--	--	--	--	--	--	<24dBm
44	5220	14.86	14.78	14.69	14.62	14.52	14.42	14.35	14.29	<24dBm
48	5240	14.15	--	--	--	--	--	--	--	<24dBm
52	5260	14.75	--	--	--	--	--	--	--	<24dBm
60	5300	15.19	15.1	15	14.9	14.82	14.75	14.68	14.63	<24dBm
64	5320	15.54	--	--	--	--	--	--	--	<24dBm
100	5500	15.23	--	--	--	--	--	--	--	<24dBm
116	5580	14.46	14.38	14.33	14.25	14.19	14.11	14.03	13.95	<24dBm
140	5700	13.76	--	--	--	--	--	--	--	<24dBm
149	5745	20.29	--	--	--	--	--	--	--	<30dBm
157	5785	20.11	20.06	20	19.94	19.85	19.8	19.72	19.62	<30dBm
165	5825	19.78	--	--	--	--	--	--	--	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.61	--	--	--	--	--	--	--	<24dBm
44	5220	14.91	14.81	14.71	14.66	14.61	14.55	14.46	14.39	<24dBm
48	5240	14.6	--	--	--	--	--	--	--	<24dBm
52	5260	14.69	--	--	--	--	--	--	--	<24dBm
60	5300	14.8	14.74	14.69	14.6	14.52	14.47	14.38	14.33	<24dBm
64	5320	15.39	--	--	--	--	--	--	--	<24dBm
100	5500	14.13	--	--	--	--	--	--	--	<24dBm
116	5580	14.01	13.91	13.84	13.79	13.7	13.61	13.56	13.47	<24dBm
140	5700	13.67	--	--	--	--	--	--	--	<24dBm
149	5745	19.74	--	--	--	--	--	--	--	<30dBm
157	5785	19.95	19.88	19.79	19.73	19.67	19.61	19.51	19.44	<30dBm
165	5825	19.78	--	--	--	--	--	--	--	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	13.95	--	--	--	--	--	--	--	<24dBm
44	5220	14.44	14.35	14.25	14.2	14.12	14.04	13.96	13.91	<24dBm
48	5240	14.01	--	--	--	--	--	--	--	<24dBm
52	5260	14.23	--	--	--	--	--	--	--	<24dBm
60	5300	14.29	14.22	14.13	14.05	13.95	13.87	13.77	13.67	<24dBm
64	5320	14.86	--	--	--	--	--	--	--	<24dBm
100	5500	15.21	--	--	--	--	--	--	--	<24dBm
116	5580	15.23	15.13	15.05	14.96	14.88	14.82	14.73	14.67	<24dBm
140	5700	14.94	--	--	--	--	--	--	--	<24dBm
149	5745	19.32	--	--	--	--	--	--	--	<30dBm
157	5785	19.92	19.87	19.79	19.74	19.69	19.59	19.51	19.46	<30dBm
165	5825	19.71	--	--	--	--	--	--	--	<30dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	14.57	14.52	14.61	13.95	20.44	24	Pass
44	5220	--	15.02	14.86	14.91	14.44	20.83	24	Pass
48	5240	--	14.56	14.15	14.60	14.01	20.36	24	Pass
52	5260	--	15.15	14.75	14.69	14.23	20.74	24	Pass
60	5300	--	14.91	15.19	14.80	14.29	20.83	24	Pass
64	5320	--	15.12	15.54	15.39	14.86	21.26	24	Pass
100	5500	--	15.32	15.23	14.13	15.21	21.02	24	Pass
116	5580	--	14.82	14.46	14.01	15.23	20.67	24	Pass
140	5700	--	13.27	13.76	13.67	14.94	19.98	24	Pass
149	5745	--	18.55	20.29	19.74	19.32	25.54	30	Pass
157	5785	--	18.31	20.11	19.95	19.92	25.65	30	Pass
165	5825	--	18.42	19.78	19.78	19.71	25.48	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	8.85	8.46	8.58	8.00	14.50	Pass
60	5300	8.78	8.96	8.57	8.18	14.65	Pass
64	5320	8.89	9.43	9.10	8.57	15.03	Pass
100	5500	9.10	9.00	7.74	9.09	14.79	Pass
116	5580	8.71	8.17	7.88	9.04	14.49	Pass
140	5700	7.14	7.38	7.38	8.65	13.70	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.12)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	18.06	--	--	--	--	--	--	--	<24dBm
46	5230	17.4	17.32	17.27	17.2	17.15	17.07	16.99	16.9	<24dBm
54	5270	17.5	--	--	--	--	--	--	--	<24dBm
62	5310	17.27	17.19	17.12	17.02	16.93	16.84	16.79	16.69	<24dBm
102	5510	17.74	--	--	--	--	--	--	--	<24dBm
110	5550	17.53	17.44	17.38	17.33	17.25	17.18	17.08	17.02	<24dBm
134	5670	16.81	--	--	--	--	--	--	--	<24dBm
151	5755	18.83	--	--	--	--	--	--	--	<30dBm
159	5795	18.21	18.11	18.01	17.93	17.87	17.79	17.72	17.66	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	18.02	--	--	--	--	--	--	--	<24dBm
46	5230	17.25	17.19	17.14	17.06	16.96	16.89	16.84	16.75	<24dBm
54	5270	17.22	--	--	--	--	--	--	--	<24dBm
62	5310	17.54	17.44	17.38	17.33	17.28	17.19	17.13	17.06	<24dBm
102	5510	17.39	--	--	--	--	--	--	--	<24dBm
110	5550	17.06	17	16.92	16.87	16.82	16.73	16.68	16.61	<24dBm
134	5670	16.76	--	--	--	--	--	--	--	<24dBm
151	5755	19.23	--	--	--	--	--	--	--	<30dBm
159	5795	20.11	20.06	19.97	19.91	19.86	19.8	19.71	19.61	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.95	--	--	--	--	--	--	--	<24dBm
46	5230	17.57	17.48	17.38	17.31	17.21	17.13	17.03	16.93	<24dBm
54	5270	17.46	--	--	--	--	--	--	--	<24dBm
62	5310	17.54	17.46	17.37	17.3	17.2	17.15	17.1	17.02	<24dBm
102	5510	17	--	--	--	--	--	--	--	<24dBm
110	5550	16.96	16.87	16.79	16.72	16.64	16.55	16.47	16.4	<24dBm
134	5670	16.94	--	--	--	--	--	--	--	<24dBm
151	5755	18.76	--	--	--	--	--	--	--	<30dBm
159	5795	19.8	19.74	19.67	19.59	19.52	19.43	19.37	19.27	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.43	--	--	--	--	--	--	--	<24dBm
46	5230	17.09	17.04	16.94	16.88	16.8	16.75	16.68	16.59	<24dBm
54	5270	17.12	--	--	--	--	--	--	--	<24dBm
62	5310	17.02	16.94	16.87	16.82	16.74	16.68	16.62	16.56	<24dBm
102	5510	17.87	--	--	--	--	--	--	--	<24dBm
110	5550	18.06	18	17.91	17.85	17.8	17.73	17.63	17.56	<24dBm
134	5670	17.84	--	--	--	--	--	--	--	<24dBm
151	5755	19.65	--	--	--	--	--	--	--	<30dBm
159	5795	19.79	19.7	19.61	19.54	19.47	19.37	19.29	19.19	<30dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	18.06	18.02	17.95	17.43	23.89	24	Pass
46	5230	--	17.40	17.25	17.57	17.09	23.35	24	Pass
54	5270	--	17.50	17.22	17.46	17.12	23.35	24	Pass
62	5310	--	17.27	17.54	17.54	17.02	23.37	24	Pass
102	5510	--	17.74	17.39	17.00	17.87	23.53	24	Pass
110	5550	--	17.53	17.06	16.96	18.06	23.45	24	Pass
134	5670	--	16.81	16.76	16.94	17.84	23.13	24	Pass
151	5755	--	18.83	19.23	18.76	19.65	25.15	30	Pass
159	5795	--	18.21	20.11	19.80	19.79	25.56	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	11.21	11.11	11.18	10.90	17.12	Pass
62	5310	10.98	11.35	11.23	10.91	17.14	Pass
102	5510	11.36	11.00	10.89	11.75	17.28	Pass
110	5550	11.40	10.83	10.73	11.73	17.21	Pass
134	5670	10.70	10.47	10.65	11.65	16.91	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.12)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	11.72	11.67	11.58	11.49	11.41	11.33	11.28	11.18	11.13	<24dBm
144 (Band4)	5720	7.93	7.88	7.82	7.77	7.69	7.61	7.51	7.44	7.37	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	11.64	11.58	11.49	11.4	11.35	11.29	11.21	11.11	11.02	<24dBm
144 (Band4)	5720	7.86	7.8	7.72	7.64	7.58	7.53	7.47	7.38	7.32	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	11.77	11.7	11.61	11.56	11.49	11.4	11.3	11.24	11.15	<24dBm
144 (Band4)	5720	7.91	7.84	7.76	7.67	7.62	7.57	7.5	7.45	7.36	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	11.81	11.71	11.65	11.58	11.51	11.44	11.35	11.3	11.21	<24dBm
144 (Band4)	5720	7.79	7.72	7.65	7.57	7.48	7.41	7.34	7.26	7.21	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
144(Band3)	5720	--	11.720	11.640	11.770	11.810	17.71	24	Pass
144(Band4)	5720	--	7.930	7.860	7.910	7.790	13.89	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
144(Band3)	5720	5.500	5.480	5.470	5.550	11.50	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.12)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.65	16.59	16.51	16.46	16.38	16.3	16.21	16.11	16.05	15.98	<24dBm
142F(Band4)	5710	6.42	6.36	6.26	6.19	6.11	6.04	5.94	5.88	5.82	5.75	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.58	16.5	16.44	16.36	16.29	16.19	16.13	16.04	15.97	15.88	<24dBm
142F(Band4)	5710	6.57	6.51	6.42	6.36	6.31	6.23	6.18	6.13	6.06	5.96	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.52	16.46	16.4	16.35	16.27	16.2	16.11	16.01	15.91	15.83	<24dBm
142F(Band4)	5710	6.51	6.42	6.36	6.31	6.23	6.14	6.09	5.99	5.94	5.88	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.61	16.52	16.42	16.33	16.28	16.22	16.14	16.04	15.96	15.86	<24dBm
142F(Band4)	5710	6.38	6.3	6.21	6.11	6.01	5.95	5.87	5.8	5.75	5.68	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
142F(Band3)	5710	--	16.650	16.580	16.52	16.61	22.61	24	Pass
142F(Band4)	5710	--	6.420	6.570	6.51	6.38	12.49	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
142(Band3)	5710	10.540	10.330	10.19	10.43	16.40	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.12)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.8	17.72	17.66	17.59	17.54	17.45	17.39	17.32	17.23	17.18	<24dBm
58	5290	17.43	17.33	17.23	17.18	17.08	17.00	16.94	16.85	16.75	16.68	<24dBm
106	5530	17.76	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.54	17.44	17.38	17.29	17.19	17.09	17.04	16.95	16.85	16.78	<24dBm
138(Band3)	5690	15.55	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	2.01	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.84	20.79	20.72	20.67	20.57	20.52	20.45	20.39	20.34	20.25	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.78	17.72	17.66	17.59	17.52	17.43	17.35	17.26	17.20	17.11	<24dBm
58	5290	17.42	17.32	17.25	17.15	17.05	17.00	16.91	16.82	16.72	16.63	<24dBm
106	5530	17.4	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.05	17	16.92	16.83	16.75	16.69	16.59	16.53	16.47	16.41	<24dBm
138(Band3)	5690	18.11	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	4.92	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.81	20.76	20.67	20.60	20.52	20.47	20.38	20.29	20.22	20.14	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.66	17.56	17.48	17.43	17.37	17.3	17.21	17.13	17.08	17	<24dBm
58	5290	17.42	17.33	17.23	17.16	17.08	17.02	16.94	16.85	16.76	16.69	<24dBm
106	5530	17.04	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.22	17.17	17.08	16.99	16.90	16.80	16.72	16.64	16.58	16.53	<24dBm
138(Band3)	5690	16.4	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	2.02	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	19.93	19.83	19.73	19.66	19.61	19.52	19.45	19.37	19.27	19.19	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.19	17.09	16.99	16.93	16.88	16.79	16.73	16.66	16.60	16.54	<24dBm
58	5290	17.11	17.02	16.97	16.89	16.83	16.74	16.64	16.57	16.50	16.40	<24dBm
106	5530	18.08	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	18.58	18.5	18.45	18.38	18.28	18.22	18.14	18.06	18.00	17.92	<24dBm
138(Band3)	5690	18.43	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	4.23	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.9	20.8	20.7	20.65	20.57	20.47	20.37	20.28	20.22	20.14	<30dBm

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

**Maximum conducted output power Measurement
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
42	5210	--	17.800	17.780	17.660	17.190	23.63	24	Pass
58	5290	--	17.430	17.420	17.420	17.110	23.37	24	Pass
106	5530	--	17.760	17.400	17.040	18.080	23.61	24	Pass
122	5610	--	17.540	17.050	17.220	18.580	23.66	24	Pass
138	5690	--	15.550	18.110	16.400	18.430	23.30	24	Pass
138ac80(Band4)	5690	--	2.010	4.920	2.020	4.230	9.51	30	Pass
155	5775	--	20.840	20.810	19.930	20.900	26.66	30	Pass

Note:

- Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
58	5290	11.160	11.310	11.200	10.820	17.15	Pass
106	5530	11.650	11.060	10.930	11.860	17.41	Pass
122	5610	11.210	10.700	10.890	12.250	17.33	Pass
138	5690	9.320	11.830	10.130	12.310	17.09	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.13)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.57	--	--	--	--	--	--	--	<24dBm
44	5220	20.97	20.87	20.79	20.7	20.6	20.54	20.48	20.38	<24dBm
48	5240	21.03	--	--	--	--	--	--	--	<24dBm
52	5260	21.56	--	--	--	--	--	--	--	<24dBm
60	5300	21.33	21.28	21.18	21.13	21.08	20.99	20.94	20.86	<24dBm
64	5320	21.24	--	--	--	--	--	--	--	<24dBm
100	5500	22.4	--	--	--	--	--	--	--	<24dBm
116	5580	21.86	21.77	21.67	21.57	21.48	21.41	21.32	21.23	<24dBm
140	5700	20.52	--	--	--	--	--	--	--	<24dBm
149	5745	20.51	--	--	--	--	--	--	--	<30dBm
157	5785	20.75	20.7	20.63	20.57	20.5	20.41	20.31	20.22	<30dBm
165	5825	20.77	--	--	--	--	--	--	--	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.5	--	--	--	--	--	--	--	<24dBm
44	5220	20.91	20.85	20.78	20.68	20.58	20.52	20.44	20.39	<24dBm
48	5240	20.97	--	--	--	--	--	--	--	<24dBm
52	5260	21.46	--	--	--	--	--	--	--	<24dBm
60	5300	21.28	21.19	21.11	21.03	20.98	20.93	20.84	20.78	<24dBm
64	5320	21.19	--	--	--	--	--	--	--	<24dBm
100	5500	22.3	--	--	--	--	--	--	--	<24dBm
116	5580	21.76	21.68	21.62	21.57	21.51	21.45	21.39	21.34	<24dBm
140	5700	20.45	--	--	--	--	--	--	--	<24dBm
149	5745	20.41	--	--	--	--	--	--	--	<30dBm
157	5785	20.7	20.64	20.58	20.5	20.45	20.4	20.31	20.21	<30dBm
165	5825	20.67	--	--	--	--	--	--	--	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.47	--	--	--	--	--	--	--	<24dBm
44	5220	20.89	20.83	20.73	20.66	20.56	20.51	20.45	20.36	<24dBm
48	5240	20.93	--	--	--	--	--	--	--	<24dBm
52	5260	21.51	--	--	--	--	--	--	--	<24dBm
60	5300	21.27	21.21	21.11	21.03	20.96	20.9	20.82	20.72	<24dBm
64	5320	21.15	--	--	--	--	--	--	--	<24dBm
100	5500	22.32	--	--	--	--	--	--	--	<24dBm
116	5580	21.81	21.75	21.65	21.55	21.45	21.4	21.35	21.26	<24dBm
140	5700	20.44	--	--	--	--	--	--	--	<24dBm
149	5745	20.43	--	--	--	--	--	--	--	<30dBm
157	5785	20.69	20.61	20.51	20.44	20.38	20.28	20.19	20.12	<30dBm
165	5825	20.7	--	--	--	--	--	--	--	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.47	--	--	--	--	--	--	--	<24dBm
44	5220	20.91	20.86	20.78	20.71	20.66	20.59	20.51	20.45	<24dBm
48	5240	20.97	--	--	--	--	--	--	--	<24dBm
52	5260	21.48	--	--	--	--	--	--	--	<24dBm
60	5300	21.27	21.2	21.11	21.01	20.96	20.87	20.77	20.68	<24dBm
64	5320	21.15	--	--	--	--	--	--	--	<24dBm
100	5500	22.32	--	--	--	--	--	--	--	<24dBm
116	5580	21.78	21.72	21.67	21.57	21.47	21.39	21.33	21.28	<24dBm
140	5700	20.43	--	--	--	--	--	--	--	<24dBm
149	5745	20.45	--	--	--	--	--	--	--	<30dBm
157	5785	20.66	20.58	20.48	20.39	20.29	20.19	20.14	20.05	<30dBm
165	5825	20.71	--	--	--	--	--	--	--	<30dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	20.57	--	--	--	20.57	24	Pass
44	5220	--	20.97	--	--	--	20.97	24	Pass
48	5240	--	21.03	--	--	--	21.03	24	Pass
52	5260	--	21.56	--	--	--	21.56	24	Pass
60	5300	--	21.33	--	--	--	21.33	24	Pass
64	5320	--	21.24	--	--	--	21.24	24	Pass
100	5500	--	22.40	--	--	--	22.40	24	Pass
116	5580	--	21.86	--	--	--	21.86	24	Pass
140	5700	--	20.52	--	--	--	20.52	24	Pass
149	5745	--	20.51	--	--	--	20.51	30	Pass
157	5785	--	20.75	--	--	--	20.75	30	Pass
165	5825	--	20.77	--	--	--	20.77	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	15.34	--	--	--	15.34	Pass
60	5300	15.20	--	--	--	15.20	Pass
64	5320	14.91	--	--	--	14.91	Pass
100	5500	16.02	--	--	--	16.02	Pass
116	5580	15.55	--	--	--	15.55	Pass
140	5700	14.30	--	--	--	14.30	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.13)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.66	--	--	--	--	--	--	--	<24dBm
44	5220	15.04	14.99	14.93	14.84	14.76	14.7	14.6	14.55	<24dBm
48	5240	14.56	--	--	--	--	--	--	--	<24dBm
52	5260	15.2	--	--	--	--	--	--	--	<24dBm
60	5300	14.97	14.92	14.83	14.74	14.67	14.6	14.55	14.47	<24dBm
64	5320	15.17	--	--	--	--	--	--	--	<24dBm
100	5500	15.34	--	--	--	--	--	--	--	<24dBm
116	5580	14.84	14.74	14.65	14.59	14.49	14.39	14.29	14.23	<24dBm
140	5700	13.3	--	--	--	--	--	--	--	<24dBm
149	5745	18.54	--	--	--	--	--	--	--	<30dBm
157	5785	18.37	18.32	18.26	18.17	18.1	18.01	17.91	17.82	<30dBm
165	5825	18.43	--	--	--	--	--	--	--	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.59	--	--	--	--	--	--	--	<24dBm
44	5220	14.78	14.72	14.65	14.55	14.46	14.38	14.31	14.24	<24dBm
48	5240	14.16	--	--	--	--	--	--	--	<24dBm
52	5260	14.7	--	--	--	--	--	--	--	<24dBm
60	5300	15.22	15.16	15.07	15.02	14.97	14.87	14.78	14.69	<24dBm
64	5320	15.6	--	--	--	--	--	--	--	<24dBm
100	5500	15.3	--	--	--	--	--	--	--	<24dBm
116	5580	14.38	14.28	14.21	14.12	14.05	14	13.94	13.86	<24dBm
140	5700	13.75	--	--	--	--	--	--	--	<24dBm
149	5745	20.32	--	--	--	--	--	--	--	<30dBm
157	5785	20.08	19.98	19.9	19.81	19.76	19.68	19.58	19.49	<30dBm
165	5825	19.82	--	--	--	--	--	--	--	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.57	--	--	--	--	--	--	--	<24dBm
44	5220	14.96	14.89	14.84	14.77	14.72	14.62	14.56	14.51	<24dBm
48	5240	14.57	--	--	--	--	--	--	--	<24dBm
52	5260	14.74	--	--	--	--	--	--	--	<24dBm
60	5300	14.72	14.67	14.59	14.54	14.47	14.37	14.3	14.25	<24dBm
64	5320	15.31	--	--	--	--	--	--	--	<24dBm
100	5500	14.13	--	--	--	--	--	--	--	<24dBm
116	5580	14.1	14	13.9	13.8	13.73	13.65	13.59	13.49	<24dBm
140	5700	13.7	--	--	--	--	--	--	--	<24dBm
149	5745	19.77	--	--	--	--	--	--	--	<30dBm
157	5785	19.98	19.89	19.84	19.79	19.7	19.6	19.5	19.45	<30dBm
165	5825	19.83	--	--	--	--	--	--	--	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	13.97	--	--	--	--	--	--	--	<24dBm
44	5220	14.43	14.34	14.28	14.23	14.18	14.13	14.03	13.94	<24dBm
48	5240	13.96	--	--	--	--	--	--	--	<24dBm
52	5260	14.2	--	--	--	--	--	--	--	<24dBm
60	5300	14.28	14.22	14.13	14.03	13.98	13.91	13.86	13.77	<24dBm
64	5320	14.89	--	--	--	--	--	--	--	<24dBm
100	5500	15.25	--	--	--	--	--	--	--	<24dBm
116	5580	15.25	15.19	15.14	15.09	15.03	14.93	14.83	14.73	<24dBm
140	5700	14.98	--	--	--	--	--	--	--	<24dBm
149	5745	19.25	--	--	--	--	--	--	--	<30dBm
157	5785	19.91	19.85	19.77	19.7	19.64	19.56	19.46	19.37	<30dBm
165	5825	19.77	--	--	--	--	--	--	--	<30dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	14.66	14.59	14.57	13.97	20.48	24	Pass
44	5220	--	15.04	14.78	14.96	14.43	20.83	24	Pass
48	5240	--	14.56	14.16	14.57	13.96	20.34	24	Pass
52	5260	--	15.20	14.70	14.74	14.20	20.74	24	Pass
60	5300	--	14.97	15.22	14.72	14.28	20.83	24	Pass
64	5320	--	15.17	15.60	15.31	14.89	21.27	24	Pass
100	5500	--	15.34	15.30	14.13	15.25	21.05	24	Pass
116	5580	--	14.84	14.38	14.10	15.25	20.69	24	Pass
140	5700	--	13.30	13.75	13.70	14.98	20.00	24	Pass
149	5745	--	18.54	20.32	19.77	19.25	25.54	30	Pass
157	5785	--	18.37	20.08	19.98	19.91	25.66	30	Pass
165	5825	--	18.43	19.82	19.83	19.77	25.52	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	9.09	8.37	8.62	7.89	14.53	Pass
60	5300	8.75	9.11	8.39	8.03	14.61	Pass
64	5320	8.86	9.37	8.96	8.76	15.01	Pass
100	5500	9.21	9.00	7.77	8.92	14.78	Pass
116	5580	8.62	8.28	7.84	8.90	14.45	Pass
140	5700	6.92	7.62	7.57	8.76	13.79	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.13)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.99	--	--	--	--	--	--	--	<24dBm
46	5230	17.55	17.47	17.42	17.33	17.23	17.13	17.04	16.99	<24dBm
54	5270	17.55	--	--	--	--	--	--	--	<24dBm
62	5310	17.33	17.24	17.19	17.13	17.05	16.99	16.89	16.8	<24dBm
102	5510	17.73	--	--	--	--	--	--	--	<24dBm
110	5550	17.55	17.46	17.4	17.3	17.21	17.13	17.05	16.99	<24dBm
134	5670	16.89	--	--	--	--	--	--	--	<24dBm
151	5755	18.81	--	--	--	--	--	--	--	<30dBm
159	5795	18.22	18.15	18.05	17.99	17.94	17.84	17.79	17.73	<30dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	18.04	--	--	--	--	--	--	--	<24dBm
46	5230	17.29	17.23	17.13	17.05	16.95	16.86	16.81	16.75	<24dBm
54	5270	17.28	--	--	--	--	--	--	--	<24dBm
62	5310	17.46	17.37	17.29	17.24	17.15	17.08	17.01	16.95	<24dBm
102	5510	17.47	--	--	--	--	--	--	--	<24dBm
110	5550	17.03	16.93	16.86	16.78	16.72	16.65	16.56	16.47	<24dBm
134	5670	16.74	--	--	--	--	--	--	--	<24dBm
151	5755	19.25	--	--	--	--	--	--	--	<30dBm
159	5795	20.13	20.05	20	19.91	19.82	19.72	19.63	19.55	<30dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	18.02	--	--	--	--	--	--	--	<24dBm
46	5230	17.66	17.58	17.49	17.42	17.36	17.31	17.24	17.18	<24dBm
54	5270	17.39	--	--	--	--	--	--	--	<24dBm
62	5310	17.51	17.41	17.34	17.29	17.22	17.13	17.05	16.96	<24dBm
102	5510	16.99	--	--	--	--	--	--	--	<24dBm
110	5550	16.92	16.87	16.81	16.72	16.66	16.57	16.5	16.4	<24dBm
134	5670	16.96	--	--	--	--	--	--	--	<24dBm
151	5755	18.73	--	--	--	--	--	--	--	<30dBm
159	5795	19.86	19.8	19.72	19.62	19.55	19.45	19.4	19.35	<30dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.43	--	--	--	--	--	--	--	<24dBm
46	5230	17.15	17.09	17.01	16.93	16.88	16.78	16.73	16.67	<24dBm
54	5270	17.07	--	--	--	--	--	--	--	<24dBm
62	5310	16.98	16.92	16.85	16.77	16.72	16.63	16.57	16.49	<24dBm
102	5510	17.87	--	--	--	--	--	--	--	<24dBm
110	5550	18.08	18.02	17.96	17.86	17.79	17.7	17.6	17.55	<24dBm
134	5670	17.85	--	--	--	--	--	--	--	<24dBm
151	5755	19.76	--	--	--	--	--	--	--	<30dBm
159	5795	19.74	19.67	19.57	19.51	19.44	19.36	19.31	19.23	<30dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	17.99	18.04	18.02	17.43	23.90	24	Pass
46	5230	--	17.55	17.29	17.66	17.15	23.44	24	Pass
54	5270	--	17.55	17.28	17.39	17.07	23.35	24	Pass
62	5310	--	17.33	17.46	17.51	16.98	23.35	24	Pass
102	5510	--	17.73	17.47	16.99	17.87	23.55	24	Pass
110	5550	--	17.55	17.03	16.92	18.08	23.44	24	Pass
134	5670	--	16.89	16.74	16.96	17.85	23.15	24	Pass
151	5755	--	18.81	19.25	18.73	19.76	25.18	30	Pass
159	5795	--	18.22	20.13	19.86	19.74	25.57	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	11.44	11.17	11.17	10.74	17.16	Pass
62	5310	11.11	11.24	11.18	10.87	17.12	Pass
102	5510	11.42	11.14	10.70	11.62	17.25	Pass
110	5550	11.42	10.90	10.58	11.74	17.20	Pass
134	5670	10.66	10.40	10.74	11.73	16.93	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.13)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.72	13.62	13.57	13.47	13.39	13.3	13.24	13.17	13.11	<24dBm
144 (Band4)	5720	8.01	7.95	7.9	7.83	7.73	7.67	7.6	7.54	7.48	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.85	13.79	13.73	13.63	13.55	13.5	13.45	13.36	13.26	<24dBm
144 (Band4)	5720	8.19	8.1	8	7.94	7.86	7.8	7.75	7.66	7.6	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.91	13.86	13.78	13.72	13.64	13.58	13.48	13.42	13.34	<24dBm
144 (Band4)	5720	8.15	8.05	7.95	7.88	7.78	7.72	7.63	7.57	7.51	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.79	13.7	13.61	13.51	13.41	13.35	13.3	13.22	13.13	<24dBm
144 (Band4)	5720	8.08	7.99	7.91	7.84	7.74	7.65	7.58	7.51	7.41	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
144(Band3)	5720	--	13.720	13.850	13.910	13.790	19.85	24	Pass
144(Band4)	5720	--	8.010	8.190	8.150	8.080	14.13	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
144(Band3)	5720	7.500	7.520	7.800	7.500	13.61	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.13)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.38	17.31	17.25	17.16	17.06	17	16.95	16.89	16.8	16.71	<24dBm
142F(Band4)	5710	6.71	6.62	6.57	6.5	6.4	6.35	6.26	6.21	6.15	6.09	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.22	17.12	17.06	16.99	16.92	16.82	16.77	16.72	16.67	16.61	<24dBm
142F(Band4)	5710	6.67	6.6	6.51	6.46	6.37	6.29	6.21	6.13	6.08	5.99	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.32	17.25	17.18	17.09	16.99	16.89	16.8	16.72	16.67	16.61	<24dBm
142F(Band4)	5710	6.59	6.53	6.46	6.38	6.3	6.22	6.17	6.1	6.05	5.98	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	17.14	17.07	17.01	16.96	16.87	16.78	16.72	16.64	16.55	16.49	<24dBm
142F(Band4)	5710	6.82	6.72	6.63	6.55	6.48	6.4	6.33	6.28	6.23	6.17	<30dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
142F(Band3)	5710	--	17.380	17.220	17.32	17.14	23.29	24	Pass
142F(Band4)	5710	--	6.710	6.670	6.59	6.82	12.72	30	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
142(Band3)	5710	11.050	10.950	11.21	10.91	17.05	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.13)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.76	17.66	17.59	17.52	17.43	17.38	17.31	17.21	17.16	17.09	<24dBm
58	5290	17.45	17.39	17.29	17.20	17.10	17.01	16.94	16.87	16.77	16.72	<24dBm
106	5530	17.75	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.61	17.52	17.47	17.37	17.30	17.22	17.14	17.04	16.95	16.88	<24dBm
138(Band3)	5690	15.44	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	2.09	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.76	20.68	20.61	20.56	20.46	20.39	20.29	20.21	20.13	20.04	<30dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.86	17.79	17.73	17.64	17.58	17.48	17.43	17.34	17.24	17.14	<24dBm
58	5290	17.35	17.28	17.19	17.14	17.05	16.99	16.92	16.82	16.76	16.71	<24dBm
106	5530	17.31	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.06	16.99	16.92	16.87	16.77	16.70	16.65	16.58	16.48	16.43	<24dBm
138(Band3)	5690	18.12	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	5.06	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.84	20.75	20.7	20.65	20.56	20.50	20.40	20.34	20.29	20.21	<30dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.59	17.51	17.41	17.33	17.27	17.2	17.10	17.03	16.95	16.88	<24dBm
58	5290	17.44	17.37	17.31	17.24	17.15	17.05	17.00	16.93	16.87	16.81	<24dBm
106	5530	17.1	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	17.25	17.2	17.12	17.07	17.01	16.96	16.91	16.84	16.78	16.70	<24dBm
138(Band3)	5690	16.38	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	1.97	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20	19.95	19.87	19.80	19.74	19.67	19.60	19.53	19.44	19.35	<30dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.16	17.07	17.02	16.95	16.90	16.83	16.77	16.7	16.64	16.57	<24dBm
58	5290	17.02	16.97	16.88	16.80	16.73	16.65	16.57	16.47	16.40	16.35	<24dBm
106	5530	18.01	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	18.51	18.44	18.36	18.28	18.22	18.17	18.11	18.04	17.94	17.89	<24dBm
138(Band3)	5690	18.36	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	4.24	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	20.77	20.7	20.62	20.56	20.47	20.40	20.34	20.28	20.18	20.11	<30dBm

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

Maximum conducted output power Measurement

(CHAIN A+ B+C+D)

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
42	5210	--	17.760	17.860	17.590	17.160	23.62	24	Pass
58	5290	--	17.450	17.350	17.440	17.020	23.34	24	Pass
106	5530	--	17.750	17.310	17.100	18.010	23.58	24	Pass
122	5610	--	17.610	17.060	17.250	18.510	23.66	24	Pass
138	5690	--	15.440	18.120	16.380	18.360	23.26	24	Pass
138ac80(Band4)	5690	--	2.090	5.060	1.970	4.240	9.57	30	Pass
155	5775	--	20.760	20.840	20.000	20.770	26.63	30	Pass

Note:

- Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)

(CHAIN A+ B+C+D)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
58	5290	11.340	11.020	11.110	10.670	17.06	Pass
106	5530	11.520	10.920	10.990	11.790	17.34	Pass
122	5610	11.280	10.950	11.030	12.260	17.43	Pass
138	5690	9.220	11.890	10.050	12.030	16.98	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.14)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.65	--	--	--	--	--	--	--	<23dBm
44	5220	21.15	21.07	21.02	20.96	20.87	20.79	20.72	20.67	<23dBm
48	5240	21.21	--	--	--	--	--	--	--	<23dBm
52	5260	21.36	--	--	--	--	--	--	--	<23dBm
60	5300	21.23	21.16	21.09	20.99	20.91	20.86	20.79	20.73	<23dBm
64	5320	21.02	--	--	--	--	--	--	--	<23dBm
100	5500	22.22	--	--	--	--	--	--	--	<23dBm
116	5580	21.75	21.69	21.62	21.53	21.45	21.4	21.33	21.28	<23dBm
140	5700	20.51	--	--	--	--	--	--	--	<23dBm
149	5745	20.61	--	--	--	--	--	--	--	<29dBm
157	5785	20.76	20.67	20.6	20.54	20.47	20.39	20.33	20.26	<29dBm
165	5825	20.76	--	--	--	--	--	--	--	<29dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.56	--	--	--	--	--	--	--	<23dBm
44	5220	21.1	21.01	20.94	20.87	20.81	20.71	20.63	20.57	<23dBm
48	5240	21.11	--	--	--	--	--	--	--	<23dBm
52	5260	21.27	--	--	--	--	--	--	--	<23dBm
60	5300	21.18	21.08	21.01	20.95	20.9	20.84	20.74	20.66	<23dBm
64	5320	20.92	--	--	--	--	--	--	--	<23dBm
100	5500	22.15	--	--	--	--	--	--	--	<23dBm
116	5580	21.7	21.62	21.53	21.47	21.4	21.35	21.25	21.18	<23dBm
140	5700	20.42	--	--	--	--	--	--	--	<23dBm
149	5745	20.56	--	--	--	--	--	--	--	<29dBm
157	5785	20.7	20.6	20.53	20.47	20.38	20.33	20.25	20.18	<29dBm
165	5825	20.7	--	--	--	--	--	--	--	<29dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.57	--	--	--	--	--	--	--	<23dBm
44	5220	21.06	21.01	20.91	20.86	20.81	20.75	20.69	20.62	<23dBm
48	5240	21.12	--	--	--	--	--	--	--	<23dBm
52	5260	21.3	--	--	--	--	--	--	--	<23dBm
60	5300	21.18	21.12	21.05	20.98	20.9	20.8	20.72	20.65	<23dBm
64	5320	20.95	--	--	--	--	--	--	--	<23dBm
100	5500	22.13	--	--	--	--	--	--	--	<23dBm
116	5580	21.69	21.6	21.5	21.4	21.34	21.26	21.21	21.16	<23dBm
140	5700	20.43	--	--	--	--	--	--	--	<23dBm
149	5745	20.56	--	--	--	--	--	--	--	<29dBm
157	5785	20.7	20.61	20.53	20.44	20.34	20.27	20.17	20.07	<29dBm
165	5825	20.69	--	--	--	--	--	--	--	<29dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.6	--	--	--	--	--	--	--	<23dBm
44	5220	21.08	21	20.93	20.87	20.81	20.72	20.63	20.53	<23dBm
48	5240	21.12	--	--	--	--	--	--	--	<23dBm
52	5260	21.27	--	--	--	--	--	--	--	<23dBm
60	5300	21.15	21.05	20.96	20.88	20.79	20.73	20.65	20.56	<23dBm
64	5320	20.94	--	--	--	--	--	--	--	<23dBm
100	5500	22.13	--	--	--	--	--	--	--	<23dBm
116	5580	21.7	21.64	21.58	21.53	21.44	21.39	21.32	21.23	<23dBm
140	5700	20.46	--	--	--	--	--	--	--	<23dBm
149	5745	20.52	--	--	--	--	--	--	--	<29dBm
157	5785	20.67	20.6	20.52	20.45	20.37	20.32	20.26	20.21	<29dBm
165	5825	20.67	--	--	--	--	--	--	--	<29dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	20.65	--	--	--	20.65	23	Pass
44	5220	--	21.15	--	--	--	21.15	23	Pass
48	5240	--	21.21	--	--	--	21.21	23	Pass
52	5260	--	21.36	--	--	--	21.36	23	Pass
60	5300	--	21.23	--	--	--	21.23	23	Pass
64	5320	--	21.02	--	--	--	21.02	23	Pass
100	5500	--	22.22	--	--	--	22.22	23	Pass
116	5580	--	21.75	--	--	--	21.75	23	Pass
140	5700	--	20.51	--	--	--	20.51	23	Pass
149	5745	--	20.61	--	--	--	20.61	29	Pass
157	5785	--	20.76	--	--	--	20.76	29	Pass
165	5825	--	20.76	--	--	--	20.76	29	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	15.14	--	--	--	15.14	Pass
60	5300	14.90	--	--	--	14.90	Pass
64	5320	14.83	--	--	--	14.83	Pass
100	5500	16.09	--	--	--	16.09	Pass
116	5580	15.46	--	--	--	15.46	Pass
140	5700	14.23	--	--	--	14.23	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.14)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	15.02	--	--	--	--	--	--	--	<23dBm
44	5220	15.51	15.45	15.35	15.26	15.21	15.15	15.1	15.05	<23dBm
48	5240	15.24	--	--	--	--	--	--	--	<23dBm
52	5260	15.06	--	--	--	--	--	--	--	<23dBm
60	5300	14.81	14.75	14.7	14.64	14.59	14.52	14.42	14.33	<23dBm
64	5320	15.05	--	--	--	--	--	--	--	<23dBm
100	5500	15.22	--	--	--	--	--	--	--	<23dBm
116	5580	14.96	14.87	14.81	14.72	14.63	14.57	14.52	14.42	<23dBm
140	5700	13.86	--	--	--	--	--	--	--	<23dBm
149	5745	18.62	--	--	--	--	--	--	--	<29dBm
157	5785	18.37	18.32	18.22	18.13	18.03	17.95	17.87	17.82	<29dBm
165	5825	18.52	--	--	--	--	--	--	--	<29dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.48	--	--	--	--	--	--	--	<23dBm
44	5220	14.84	14.78	14.72	14.66	14.58	14.5	14.45	14.37	<23dBm
48	5240	14.46	--	--	--	--	--	--	--	<23dBm
52	5260	14.45	--	--	--	--	--	--	--	<23dBm
60	5300	14.73	14.64	14.59	14.53	14.48	14.38	14.32	14.26	<23dBm
64	5320	15.29	--	--	--	--	--	--	--	<23dBm
100	5500	15.52	--	--	--	--	--	--	--	<23dBm
116	5580	15.16	15.06	15.01	14.96	14.91	14.85	14.77	14.67	<23dBm
140	5700	15.13	--	--	--	--	--	--	--	<23dBm
149	5745	20.29	--	--	--	--	--	--	--	<29dBm
157	5785	20.08	19.98	19.89	19.82	19.77	19.67	19.57	19.52	<29dBm
165	5825	19.86	--	--	--	--	--	--	--	<29dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	15.87	--	--	--	--	--	--	--	<23dBm
44	5220	16.12	16.03	15.96	15.88	15.79	15.71	15.61	15.53	<23dBm
48	5240	15.84	--	--	--	--	--	--	--	<23dBm
52	5260	15.84	--	--	--	--	--	--	--	<23dBm
60	5300	15.81	15.72	15.67	15.61	15.55	15.45	15.37	15.31	<23dBm
64	5320	16.35	--	--	--	--	--	--	--	<23dBm
100	5500	16.18	--	--	--	--	--	--	--	<23dBm
116	5580	15.93	15.88	15.81	15.74	15.69	15.59	15.53	15.47	<23dBm
140	5700	17.08	--	--	--	--	--	--	--	<23dBm
149	5745	19.81	--	--	--	--	--	--	--	<29dBm
157	5785	20.06	19.98	19.93	19.85	19.77	19.71	19.61	19.56	<29dBm
165	5825	19.74	--	--	--	--	--	--	--	<29dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.72	--	--	--	--	--	--	--	<23dBm
44	5220	15.11	15.05	14.97	14.87	14.78	14.68	14.61	14.56	<23dBm
48	5240	14.64	--	--	--	--	--	--	--	<23dBm
52	5260	14.42	--	--	--	--	--	--	--	<23dBm
60	5300	14.58	14.48	14.38	14.28	14.2	14.12	14.03	13.98	<23dBm
64	5320	15.45	--	--	--	--	--	--	--	<23dBm
100	5500	15.61	--	--	--	--	--	--	--	<23dBm
116	5580	15.71	15.65	15.59	15.5	15.42	15.35	15.27	15.21	<23dBm
140	5700	14.87	--	--	--	--	--	--	--	<23dBm
149	5745	19.37	--	--	--	--	--	--	--	<29dBm
157	5785	19.78	19.69	19.62	19.52	19.42	19.35	19.29	19.22	<29dBm
165	5825	19.69	--	--	--	--	--	--	--	<29dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	15.02	14.48	15.87	14.72	21.08	23	Pass
44	5220	--	15.51	14.84	16.12	15.11	21.44	23	Pass
48	5240	--	15.24	14.46	15.84	14.64	21.10	23	Pass
52	5260	--	15.06	14.45	15.84	14.42	21.00	23	Pass
60	5300	--	14.81	14.73	15.81	14.58	21.03	23	Pass
64	5320	--	15.05	15.29	16.35	15.45	21.58	23	Pass
100	5500	--	15.22	15.52	16.18	15.61	21.67	23	Pass
116	5580	--	14.96	15.16	15.93	15.71	21.48	23	Pass
140	5700	--	13.86	15.13	17.08	14.87	21.42	23	Pass
149	5745	--	18.62	20.29	19.81	19.37	25.59	29	Pass
157	5785	--	18.37	20.08	20.06	19.78	25.65	29	Pass
165	5825	--	18.52	19.86	19.74	19.69	25.51	29	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	8.84	8.23	9.61	8.13	14.76	Pass
60	5300	8.70	8.40	9.52	8.46	14.81	Pass
64	5320	8.77	9.00	10.08	9.22	15.32	Pass
100	5500	8.96	9.24	9.85	9.33	15.38	Pass
116	5580	8.63	8.94	9.82	9.44	15.25	Pass
140	5700	7.75	9.02	10.96	8.64	15.28	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.14)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	16.58	--	--	--	--	--	--	--	<23dBm
46	5230	16.43	16.37	16.32	16.25	16.19	16.09	16.01	15.95	<23dBm
54	5270	16.64	--	--	--	--	--	--	--	<23dBm
62	5310	16.41	16.36	16.28	16.18	16.13	16.03	15.93	15.88	<23dBm
102	5510	16.74	--	--	--	--	--	--	--	<23dBm
110	5550	15.98	15.91	15.86	15.77	15.71	15.62	15.54	15.45	<23dBm
134	5670	15.63	--	--	--	--	--	--	--	<23dBm
151	5755	18.75	--	--	--	--	--	--	--	<29dBm
159	5795	18.23	18.13	18.07	17.99	17.92	17.82	17.73	17.66	<29dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	16.44	--	--	--	--	--	--	--	<23dBm
46	5230	15.95	15.86	15.8	15.71	15.63	15.56	15.47	15.4	<23dBm
54	5270	16.31	--	--	--	--	--	--	--	<23dBm
62	5310	16.47	16.4	16.34	16.25	16.19	16.1	16.04	15.94	<23dBm
102	5510	16.32	--	--	--	--	--	--	--	<23dBm
110	5550	16.43	16.37	16.3	16.25	16.16	16.11	16.05	15.96	<23dBm
134	5670	16.73	--	--	--	--	--	--	--	<23dBm
151	5755	19.31	--	--	--	--	--	--	--	<29dBm
159	5795	20.11	20.04	19.98	19.93	19.88	19.82	19.73	19.63	<29dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	17.12	--	--	--	--	--	--	--	<23dBm
46	5230	16.81	16.71	16.62	16.57	16.51	16.44	16.34	16.28	<23dBm
54	5270	17.32	--	--	--	--	--	--	--	<23dBm
62	5310	17.42	17.36	17.29	17.22	17.15	17.08	17.02	16.92	<23dBm
102	5510	17.31	--	--	--	--	--	--	--	<23dBm
110	5550	17.31	17.22	17.14	17.08	16.98	16.91	16.85	16.75	<23dBm
134	5670	17.79	--	--	--	--	--	--	--	<23dBm
151	5755	18.73	--	--	--	--	--	--	--	<29dBm
159	5795	19.91	19.85	19.75	19.66	19.61	19.55	19.48	19.39	<29dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	16.21	--	--	--	--	--	--	--	<23dBm
46	5230	16.09	16	15.95	15.85	15.76	15.67	15.6	15.55	<23dBm
54	5270	16.13	--	--	--	--	--	--	--	<23dBm
62	5310	16.24	16.15	16.05	15.96	15.91	15.85	15.76	15.69	<23dBm
102	5510	16.15	--	--	--	--	--	--	--	<23dBm
110	5550	16.69	16.62	16.55	16.5	16.41	16.34	16.25	16.18	<23dBm
134	5670	16.76	--	--	--	--	--	--	--	<23dBm
151	5755	19.74	--	--	--	--	--	--	--	<29dBm
159	5795	19.68	19.62	19.55	19.46	19.37	19.29	19.23	19.15	<29dBm

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

Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	16.58	16.44	17.12	16.21	22.62	23	Pass
46	5230	--	16.43	15.95	16.81	16.09	22.35	23	Pass
54	5270	--	16.64	16.31	17.32	16.13	22.64	23	Pass
62	5310	--	16.41	16.47	17.42	16.24	22.68	23	Pass
102	5510	--	16.74	16.32	17.31	16.15	22.67	23	Pass
110	5550	--	15.98	16.43	17.31	16.69	22.65	23	Pass
134	5670	--	15.63	16.73	17.79	16.76	22.81	23	Pass
151	5755	--	18.75	19.31	18.73	19.74	25.17	29	Pass
159	5795	--	18.23	20.11	19.91	19.68	25.56	29	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	10.53	10.20	11.14	9.95	16.50	Pass
62	5310	10.18	10.19	11.18	10.02	16.44	Pass
102	5510	10.44	10.01	11.03	9.92	16.39	Pass
110	5550	9.85	10.21	11.11	10.58	16.48	Pass
134	5670	9.28	10.60	11.60	10.53	16.60	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.14)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.77	13.69	13.59	13.53	13.44	13.35	13.28	13.18	13.1	<23dBm
144 (Band4)	5720	7.23	7.15	7.05	7	6.95	6.87	6.8	6.75	6.69	<29dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.85	13.75	13.67	13.61	13.53	13.44	13.39	13.33	13.24	<23dBm
144 (Band4)	5720	7.19	7.13	7.08	6.98	6.9	6.85	6.78	6.71	6.66	<29dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.71	13.66	13.57	13.49	13.43	13.36	13.3	13.24	13.19	<23dBm
144 (Band4)	5720	7.29	7.2	7.15	7.1	7.01	6.95	6.9	6.85	6.78	<29dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	13.81	13.73	13.68	13.61	13.54	13.49	13.39	13.29	13.24	<23dBm
144 (Band4)	5720	7.11	7.04	6.96	6.9	6.83	6.75	6.7	6.62	6.54	<29dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
144(Band3)	5720	--	13.770	13.850	13.710	13.810	19.82	23	Pass
144(Band4)	5720	--	7.230	7.190	7.290	7.110	13.23	29	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW)).

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
144(Band3)	5720	7.550	7.750	7.580	7.480	13.68	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.14)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.39	16.29	16.2	16.11	16.06	15.97	15.92	15.87	15.81	15.71	<23dBm
142F(Band4)	5710	5.81	5.76	5.7	5.64	5.55	5.5	5.41	5.36	5.31	5.25	<29dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.27	16.22	16.13	16.08	16	15.9	15.85	15.78	15.71	15.65	<23dBm
142F(Band4)	5710	5.69	5.63	5.56	5.51	5.43	5.36	5.31	5.23	5.13	5.05	<29dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.37	16.3	16.2	16.15	16.08	16.03	15.93	15.87	15.8	15.74	<23dBm
142F(Band4)	5710	5.74	5.69	5.61	5.51	5.43	5.36	5.31	5.21	5.16	5.06	<29dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	16.43	16.33	16.27	16.18	16.12	16.03	15.95	15.9	15.81	15.74	<23dBm
142F(Band4)	5710	5.64	5.55	5.45	5.39	5.33	5.24	5.17	5.08	5.02	4.94	<29dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
142F(Band3)	5710	--	16.390	16.270	16.37	16.43	22.39	23	Pass
142F(Band4)	5710	--	5.810	5.690	5.74	5.64	11.74	29	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
142(Band3)	5710	10.100	10.040	10.24	10.09	16.14	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.14)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	16.58	16.49	16.42	16.36	16.30	16.21	16.12	16.03	15.98	15.91	<23dBm
58	5290	16.12	16.04	15.96	15.90	15.85	15.75	15.69	15.59	15.49	15.43	<23dBm
106	5530	15.88	--	--	--	--	--	--	--	--	--	<23dBm
122	5610	15.64	15.58	15.53	15.46	15.39	15.29	15.23	15.13	15.08	15.01	<23dBm
138(Band3)	5690	14.81	--	--	--	--	--	--	--	--	--	<23dBm
138(Band4)	5690	1.21	--	--	--	--	--	--	--	--	--	<29dBm
155	5775	20.37	20.28	20.21	20.15	20.10	20.03	19.96	19.91	19.83	19.77	<29dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	16.17	16.09	16.02	15.97	15.87	15.77	15.69	15.59	15.50	15.42	<23dBm
58	5290	15.93	15.86	15.76	15.69	15.62	15.53	15.44	15.39	15.31	15.23	<23dBm
106	5530	16.13	--	--	--	--	--	--	--	--	--	<23dBm
122	5610	15.95	15.86	15.76	15.70	15.65	15.57	15.50	15.43	15.35	15.25	<23dBm
138(Band3)	5690	17.26	--	--	--	--	--	--	--	--	--	<23dBm
138(Band4)	5690	4.09	--	--	--	--	--	--	--	--	--	<29dBm
155	5775	21.09	21.01	20.93	20.84	20.76	20.71	20.64	20.56	20.46	20.39	<29dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.03	16.96	16.9	16.81	16.75	16.66	16.60	16.5	16.40	16.3	<23dBm
58	5290	17.12	17.07	16.98	16.88	16.78	16.72	16.62	16.56	16.49	16.39	<23dBm
106	5530	16.92	--	--	--	--	--	--	--	--	--	<23dBm
122	5610	17.5	17.43	17.33	17.26	17.21	17.14	17.09	17.03	16.98	16.92	<23dBm
138(Band3)	5690	15.6	--	--	--	--	--	--	--	--	--	<23dBm
138(Band4)	5690	1.15	--	--	--	--	--	--	--	--	--	<29dBm
155	5775	20.61	20.54	20.44	20.34	20.26	20.17	20.10	20.05	19.98	19.91	<29dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	16.11	16.02	15.94	15.87	15.80	15.74	15.69	15.63	15.54	15.48	<23dBm
58	5290	15.99	15.93	15.83	15.74	15.65	15.55	15.47	15.38	15.31	15.23	<23dBm
106	5530	16.46	--	--	--	--	--	--	--	--	--	<23dBm
122	5610	16.73	16.63	16.57	16.48	16.42	16.36	16.30	16.21	16.16	16.10	<23dBm
138(Band3)	5690	17.51	--	--	--	--	--	--	--	--	--	<23dBm
138(Band4)	5690	3.27	--	--	--	--	--	--	--	--	--	<29dBm
155	5775	20.35	20.25	20.19	20.11	20.02	19.93	19.83	19.78	19.72	19.67	<29dBm

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

**Maximum conducted output power Measurement
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
42	5210	--	16.580	16.170	17.030	16.110	22.51	23	Pass
58	5290	--	16.120	15.930	17.120	15.990	22.34	23	Pass
106	5530	--	15.880	16.130	16.920	16.460	22.39	23	Pass
122	5610	--	15.640	15.950	17.500	16.730	22.54	23	Pass
138	5690	--	14.810	17.260	15.600	17.510	22.46	23	Pass
138ac80(Band4)	5690	--	1.210	4.090	1.150	3.270	8.64	29	Pass
155	5775	--	20.370	21.090	20.610	20.350	26.64	29	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
58	5290	9.790	9.630	10.780	9.640	16.01	Pass
106	5530	9.590	10.000	10.600	10.220	16.14	Pass
122	5610	9.420	9.700	11.180	10.550	16.29	Pass
138	5690	8.580	11.130	9.380	11.260	16.26	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.15)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.73	--	--	--	--	--	--	--	<21dBm
44	5220	20.52	20.42	20.36	20.29	20.19	20.13	20.03	19.97	<21dBm
48	5240	20.71	--	--	--	--	--	--	--	<21dBm
52	5260	20.68	--	--	--	--	--	--	--	<21dBm
60	5300	20.52	20.43	20.37	20.3	20.2	20.14	20.07	20.02	<21dBm
64	5320	20.39	--	--	--	--	--	--	--	<21dBm
100	5500	20.13	--	--	--	--	--	--	--	<21dBm
116	5580	20.22	20.16	20.11	20.06	20.01	19.92	19.87	19.79	<21dBm
140	5700	20.36	--	--	--	--	--	--	--	<21dBm
149	5745	20.52	--	--	--	--	--	--	--	<27dBm
157	5785	20.84	20.74	20.65	20.55	20.49	20.41	20.34	20.26	<27dBm
165	5825	20.77	--	--	--	--	--	--	--	<27dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.67	--	--	--	--	--	--	--	<21dBm
44	5220	20.44	20.34	20.25	20.2	20.11	20.01	19.94	19.85	<21dBm
48	5240	20.64	--	--	--	--	--	--	--	<21dBm
52	5260	20.58	--	--	--	--	--	--	--	<21dBm
60	5300	20.42	20.35	20.26	20.21	20.16	20.06	20	19.9	<21dBm
64	5320	20.29	--	--	--	--	--	--	--	<21dBm
100	5500	20.03	--	--	--	--	--	--	--	<21dBm
116	5580	20.12	20.03	19.97	19.9	19.84	19.79	19.69	19.64	<21dBm
140	5700	20.31	--	--	--	--	--	--	--	<21dBm
149	5745	20.47	--	--	--	--	--	--	--	<27dBm
157	5785	20.74	20.65	20.56	20.5	20.42	20.35	20.25	20.2	<27dBm
165	5825	20.67	--	--	--	--	--	--	--	<27dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.64	--	--	--	--	--	--	--	<21dBm
44	5220	20.47	20.38	20.31	20.26	20.21	20.12	20.07	19.98	<21dBm
48	5240	20.66	--	--	--	--	--	--	--	<21dBm
52	5260	20.63	--	--	--	--	--	--	--	<21dBm
60	5300	20.44	20.35	20.27	20.21	20.16	20.08	20.02	19.95	<21dBm
64	5320	20.3	--	--	--	--	--	--	--	<21dBm
100	5500	20.06	--	--	--	--	--	--	--	<21dBm
116	5580	20.15	20.1	20.01	19.94	19.86	19.81	19.72	19.62	<21dBm
140	5700	20.28	--	--	--	--	--	--	--	<21dBm
149	5745	20.42	--	--	--	--	--	--	--	<27dBm
157	5785	20.74	20.66	20.56	20.48	20.4	20.35	20.28	20.21	<27dBm
165	5825	20.67	--	--	--	--	--	--	--	<27dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.64	--	--	--	--	--	--	--	<21dBm
44	5220	20.45	20.36	20.29	20.23	20.17	20.12	20.02	19.94	<21dBm
48	5240	20.61	--	--	--	--	--	--	--	<21dBm
52	5260	20.59	--	--	--	--	--	--	--	<21dBm
60	5300	20.44	20.36	20.27	20.21	20.11	20.05	19.95	19.9	<21dBm
64	5320	20.34	--	--	--	--	--	--	--	<21dBm
100	5500	20.03	--	--	--	--	--	--	--	<21dBm
116	5580	20.17	20.1	20.04	19.94	19.87	19.81	19.72	19.66	<21dBm
140	5700	20.27	--	--	--	--	--	--	--	<21dBm
149	5745	20.47	--	--	--	--	--	--	--	<27dBm
157	5785	20.74	20.65	20.58	20.48	20.38	20.31	20.25	20.19	<27dBm
165	5825	20.72	--	--	--	--	--	--	--	<27dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	20.73	--	--	--	20.73	21	Pass
44	5220	--	20.52	--	--	--	20.52	21	Pass
48	5240	--	20.71	--	--	--	20.71	21	Pass
52	5260	--	20.68	--	--	--	20.68	21	Pass
60	5300	--	20.52	--	--	--	20.52	21	Pass
64	5320	--	20.39	--	--	--	20.39	21	Pass
100	5500	--	20.13	--	--	--	20.13	21	Pass
116	5580	--	20.22	--	--	--	20.22	21	Pass
140	5700	--	20.36	--	--	--	20.36	21	Pass
149	5745	--	20.52	--	--	--	20.52	27	Pass
157	5785	--	20.84	--	--	--	20.84	27	Pass
165	5825	--	20.77	--	--	--	20.77	27	Pass

Note:

1. Power Output Value = Reading value on average power meter + cable loss

Maximum conducted output power Measurement with Transmit power Control (TPC)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	14.46	--	--	--	14.46	Pass
60	5300	14.39	--	--	--	14.39	Pass
64	5320	14.10	--	--	--	14.10	Pass
100	5500	13.91	--	--	--	13.91	Pass
116	5580	13.99	--	--	--	13.99	Pass
140	5700	14.25	--	--	--	14.25	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.15)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.62	--	--	--	--	--	--	--	<21dBm
44	5220	14.51	14.46	14.39	14.33	14.24	14.18	14.1	14	<21dBm
48	5240	14.66	--	--	--	--	--	--	--	<21dBm
52	5260	14.43	--	--	--	--	--	--	--	<21dBm
60	5300	14.43	14.37	14.3	14.21	14.11	14.02	13.97	13.91	<21dBm
64	5320	14.11	--	--	--	--	--	--	--	<21dBm
100	5500	14.28	--	--	--	--	--	--	--	<21dBm
116	5580	13.89	13.83	13.75	13.7	13.62	13.55	13.48	13.38	<21dBm
140	5700	13.24	--	--	--	--	--	--	--	<21dBm
149	5745	19.02	--	--	--	--	--	--	--	<27dBm
157	5785	19.16	19.06	18.97	18.89	18.79	18.7	18.64	18.54	<27dBm
165	5825	19.62	--	--	--	--	--	--	--	<27dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.23	--	--	--	--	--	--	--	<21dBm
44	5220	14.12	14.04	13.98	13.91	13.85	13.76	13.7	13.65	<21dBm
48	5240	14.19	--	--	--	--	--	--	--	<21dBm
52	5260	14.05	--	--	--	--	--	--	--	<21dBm
60	5300	14.41	14.35	14.28	14.2	14.14	14.06	14.01	13.95	<21dBm
64	5320	14.51	--	--	--	--	--	--	--	<21dBm
100	5500	14.53	--	--	--	--	--	--	--	<21dBm
116	5580	14.42	14.37	14.3	14.25	14.15	14.06	13.96	13.91	<21dBm
140	5700	14.77	--	--	--	--	--	--	--	<21dBm
149	5745	20.33	--	--	--	--	--	--	--	<27dBm
157	5785	20.17	20.07	20.01	19.92	19.83	19.76	19.69	19.63	<27dBm
165	5825	20.03	--	--	--	--	--	--	--	<27dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	15.37	--	--	--	--	--	--	--	<21dBm
44	5220	15.16	15.09	15.01	14.95	14.87	14.8	14.72	14.62	<21dBm
48	5240	15.38	--	--	--	--	--	--	--	<21dBm
52	5260	15.33	--	--	--	--	--	--	--	<21dBm
60	5300	15.46	15.38	15.29	15.23	15.14	15.04	14.99	14.91	<21dBm
64	5320	15.52	--	--	--	--	--	--	--	<21dBm
100	5500	15.21	--	--	--	--	--	--	--	<21dBm
116	5580	15.06	15.01	14.92	14.85	14.79	14.71	14.66	14.58	<21dBm
140	5700	15.04	--	--	--	--	--	--	--	<21dBm
149	5745	20.48	--	--	--	--	--	--	--	<27dBm
157	5785	20.28	20.18	20.1	20.04	19.96	19.86	19.77	19.72	<27dBm
165	5825	20.13	--	--	--	--	--	--	--	<27dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.15	--	--	--	--	--	--	--	<21dBm
44	5220	13.86	13.81	13.72	13.63	13.54	13.44	13.34	13.26	<21dBm
48	5240	14.09	--	--	--	--	--	--	--	<21dBm
52	5260	14.08	--	--	--	--	--	--	--	<21dBm
60	5300	14.15	14.05	14	13.9	13.85	13.76	13.68	13.6	<21dBm
64	5320	14.41	--	--	--	--	--	--	--	<21dBm
100	5500	14.73	--	--	--	--	--	--	--	<21dBm
116	5580	14.72	14.66	14.58	14.48	14.42	14.33	14.25	14.18	<21dBm
140	5700	14.51	--	--	--	--	--	--	--	<21dBm
149	5745	19.82	--	--	--	--	--	--	--	<27dBm
157	5785	19.83	19.74	19.69	19.64	19.57	19.51	19.45	19.38	<27dBm
165	5825	19.76	--	--	--	--	--	--	--	<27dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	14.62	14.23	15.37	14.15	20.64	21	Pass
44	5220	--	14.51	14.12	15.16	13.86	20.46	21	Pass
48	5240	--	14.66	14.19	15.38	14.09	20.63	21	Pass
52	5260	--	14.43	14.05	15.33	14.08	20.52	21	Pass
60	5300	--	14.43	14.41	15.46	14.15	20.66	21	Pass
64	5320	--	14.11	14.51	15.52	14.41	20.69	21	Pass
100	5500	--	14.28	14.53	15.21	14.73	20.72	21	Pass
116	5580	--	13.89	14.42	15.06	14.72	20.56	21	Pass
140	5700	--	13.24	14.77	15.04	14.51	20.46	21	Pass
149	5745	--	19.02	20.33	20.48	19.82	25.97	27	Pass
157	5785	--	19.16	20.17	20.28	19.83	25.90	27	Pass
165	5825	--	19.62	20.03	20.13	19.76	25.91	27	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	8.32	7.93	9.23	7.98	14.42	Pass
60	5300	8.23	8.11	9.16	8.03	14.43	Pass
64	5320	7.81	8.29	9.28	8.08	14.42	Pass
100	5500	7.90	8.28	8.98	8.38	14.42	Pass
116	5580	7.66	8.31	8.83	8.47	14.36	Pass
140	5700	7.14	8.64	8.86	8.29	14.30	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.15)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	14.72	--	--	--	--	--	--	--	<21dBm
46	5230	14.65	14.56	14.48	14.38	14.3	14.25	14.18	14.1	<21dBm
54	5270	14.49	--	--	--	--	--	--	--	<21dBm
62	5310	14.37	14.31	14.25	14.2	14.15	14.06	13.96	13.88	<21dBm
102	5510	14.29	--	--	--	--	--	--	--	<21dBm
110	5550	14.01	13.95	13.86	13.81	13.73	13.67	13.62	13.52	<21dBm
134	5670	13.66	--	--	--	--	--	--	--	<21dBm
151	5755	18.53	--	--	--	--	--	--	--	<27dBm
159	5795	19.21	19.11	19.01	18.92	18.83	18.77	18.71	18.63	<27dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	14.53	--	--	--	--	--	--	--	<21dBm
46	5230	14.11	14.01	13.95	13.86	13.8	13.75	13.65	13.58	<21dBm
54	5270	14.13	--	--	--	--	--	--	--	<21dBm
62	5310	14.31	14.26	14.19	14.1	14.01	13.91	13.84	13.74	<21dBm
102	5510	14.56	--	--	--	--	--	--	--	<21dBm
110	5550	14.35	14.3	14.2	14.14	14.09	13.99	13.91	13.85	<21dBm
134	5670	14.77	--	--	--	--	--	--	--	<21dBm
151	5755	20.3	--	--	--	--	--	--	--	<27dBm
159	5795	20.26	20.17	20.1	20	19.95	19.88	19.78	19.73	<27dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	15.38	--	--	--	--	--	--	--	<21dBm
46	5230	15.39	15.31	15.25	15.15	15.09	15.04	14.99	14.89	<21dBm
54	5270	15.42	--	--	--	--	--	--	--	<21dBm
62	5310	15.39	15.29	15.19	15.09	15.03	14.96	14.9	14.81	<21dBm
102	5510	15.18	--	--	--	--	--	--	--	<21dBm
110	5550	15.28	15.23	15.18	15.13	15.06	14.97	14.89	14.84	<21dBm
134	5670	15.61	--	--	--	--	--	--	--	<21dBm
151	5755	19.91	--	--	--	--	--	--	--	<27dBm
159	5795	20.15	20.06	19.96	19.91	19.85	19.77	19.7	19.65	<27dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	14.33	--	--	--	--	--	--	--	<21dBm
46	5230	14.26	14.16	14.1	14.05	13.98	13.91	13.84	13.75	<21dBm
54	5270	14.21	--	--	--	--	--	--	--	<21dBm
62	5310	14.26	14.2	14.13	14.05	13.98	13.91	13.85	13.78	<21dBm
102	5510	14.71	--	--	--	--	--	--	--	<21dBm
110	5550	14.73	14.64	14.59	14.49	14.44	14.34	14.25	14.17	<21dBm
134	5670	14.89	--	--	--	--	--	--	--	<21dBm
151	5755	19.26	--	--	--	--	--	--	--	<27dBm
159	5795	19.81	19.73	19.66	19.6	19.52	19.47	19.37	19.28	<27dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	14.72	14.53	15.38	14.33	20.78	21	Pass
46	5230	--	14.65	14.11	15.39	14.26	20.65	21	Pass
54	5270	--	14.49	14.13	15.42	14.21	20.61	21	Pass
62	5310	--	14.37	14.31	15.39	14.26	20.63	21	Pass
102	5510	--	14.29	14.56	15.18	14.71	20.72	21	Pass
110	5550	--	14.01	14.35	15.28	14.73	20.64	21	Pass
134	5670	--	13.66	14.77	15.61	14.89	20.81	21	Pass
151	5755	--	18.53	20.30	19.91	19.26	25.57	27	Pass
159	5795	--	19.21	20.26	20.15	19.81	25.90	27	Pass

Note:

- Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	8.37	7.90	9.31	7.93	14.44	Pass
62	5310	8.14	8.05	9.06	7.92	14.34	Pass
102	5510	8.11	8.29	8.90	8.53	14.49	Pass
110	5550	7.78	8.07	9.15	8.51	14.43	Pass
134	5670	7.55	8.44	9.39	8.71	14.59	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.15)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	10.85	10.76	10.69	10.59	10.51	10.44	10.36	10.31	10.24	<21dBm
144 (Band4)	5720	4.74	4.67	4.57	4.5	4.4	4.35	4.29	4.19	4.14	<27dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	10.91	10.81	10.75	10.65	10.56	10.47	10.37	10.27	10.18	<21dBm
144 (Band4)	5720	4.79	4.69	4.6	4.53	4.48	4.42	4.37	4.32	4.22	<27dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	10.72	10.62	10.57	10.5	10.43	10.38	10.29	10.24	10.14	<21dBm
144 (Band4)	5720	4.71	4.64	4.59	4.54	4.44	4.38	4.31	4.25	4.15	<27dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	10.78	10.73	10.67	10.6	10.5	10.44	10.39	10.29	10.21	<21dBm
144 (Band4)	5720	4.83	4.76	4.69	4.61	4.52	4.43	4.35	4.27	4.18	<27dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
144(Band3)	5720	--	10.850	10.910	10.720	10.780	16.87	21	Pass
144(Band4)	5720	--	4.740	4.790	4.710	4.830	10.79	27	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.15)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	13.56	13.46	13.4	13.31	13.23	13.18	13.13	13.08	13	12.93	<21dBm
142F(Band4)	5710	3.59	3.51	3.41	3.33	3.24	3.14	3.08	3.03	2.97	2.87	<27dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	13.69	13.59	13.53	13.44	13.34	13.29	13.24	13.17	13.12	13.05	<21dBm
142F(Band4)	5710	3.52	3.43	3.38	3.33	3.28	3.21	3.11	3.01	2.91	2.82	<27dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	13.47	13.4	13.3	13.22	13.13	13.08	12.99	12.9	12.84	12.78	<21dBm
142F(Band4)	5710	3.46	3.4	3.35	3.3	3.22	3.14	3.08	3.01	2.96	2.87	<27dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	13.39	13.29	13.2	13.15	13.06	12.99	12.89	12.79	12.74	12.64	<21dBm
142F(Band4)	5710	3.63	3.55	3.48	3.42	3.37	3.27	3.19	3.13	3.08	3	<27dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
142F(Band3)	5710	--	13.560	13.690	13.47	13.39	19.55	21	Pass
142F(Band4)	5710	--	3.590	3.520	3.46	3.63	9.57	27	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.15)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	14.72	--	--	--	--	--	--	--	<21dBm
46	5230	14.65	14.56	14.48	14.38	14.3	14.25	14.18	14.1	<21dBm
54	5270	14.49	--	--	--	--	--	--	--	<21dBm
62	5310	14.37	14.31	14.25	14.2	14.15	14.06	13.96	13.88	<21dBm
102	5510	14.29	--	--	--	--	--	--	--	<21dBm
110	5550	14.01	13.95	13.86	13.81	13.73	13.67	13.62	13.52	<21dBm
134	5670	13.66	--	--	--	--	--	--	--	<21dBm
151	5755	18.53	--	--	--	--	--	--	--	<27dBm
159	5795	19.21	19.11	19.01	18.92	18.83	18.77	18.71	18.63	<27dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	14.53	--	--	--	--	--	--	--	<21dBm
46	5230	14.11	14.01	13.95	13.86	13.8	13.75	13.65	13.58	<21dBm
54	5270	14.13	--	--	--	--	--	--	--	<21dBm
62	5310	14.31	14.26	14.19	14.1	14.01	13.91	13.84	13.74	<21dBm
102	5510	14.56	--	--	--	--	--	--	--	<21dBm
110	5550	14.35	14.3	14.2	14.14	14.09	13.99	13.91	13.85	<21dBm
134	5670	14.77	--	--	--	--	--	--	--	<21dBm
151	5755	20.3	--	--	--	--	--	--	--	<27dBm
159	5795	20.26	20.17	20.1	20	19.95	19.88	19.78	19.73	<27dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	15.38	--	--	--	--	--	--	--	<21dBm
46	5230	15.39	15.31	15.25	15.15	15.09	15.04	14.99	14.89	<21dBm
54	5270	15.42	--	--	--	--	--	--	--	<21dBm
62	5310	15.39	15.29	15.19	15.09	15.03	14.96	14.9	14.81	<21dBm
102	5510	15.18	--	--	--	--	--	--	--	<21dBm
110	5550	15.28	15.23	15.18	15.13	15.06	14.97	14.89	14.84	<21dBm
134	5670	15.61	--	--	--	--	--	--	--	<21dBm
151	5755	19.91	--	--	--	--	--	--	--	<27dBm
159	5795	20.15	20.06	19.96	19.91	19.85	19.77	19.7	19.65	<27dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	14.33	--	--	--	--	--	--	--	<21dBm
46	5230	14.26	14.16	14.1	14.05	13.98	13.91	13.84	13.75	<21dBm
54	5270	14.21	--	--	--	--	--	--	--	<21dBm
62	5310	14.26	14.2	14.13	14.05	13.98	13.91	13.85	13.78	<21dBm
102	5510	14.71	--	--	--	--	--	--	--	<21dBm
110	5550	14.73	14.64	14.59	14.49	14.44	14.34	14.25	14.17	<21dBm
134	5670	14.89	--	--	--	--	--	--	--	<21dBm
151	5755	19.26	--	--	--	--	--	--	--	<27dBm
159	5795	19.81	19.73	19.66	19.6	19.52	19.47	19.37	19.28	<27dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	14.72	14.53	15.38	14.33	20.78	21	Pass
46	5230	--	14.65	14.11	15.39	14.26	20.65	21	Pass
54	5270	--	14.49	14.13	15.42	14.21	20.61	21	Pass
62	5310	--	14.37	14.31	15.39	14.26	20.63	21	Pass
102	5510	--	14.29	14.56	15.18	14.71	20.72	21	Pass
110	5550	--	14.01	14.35	15.28	14.73	20.64	21	Pass
134	5670	--	13.66	14.77	15.61	14.89	20.81	21	Pass
151	5755	--	18.53	20.30	19.91	19.26	25.57	27	Pass
159	5795	--	19.21	20.26	20.15	19.81	25.90	27	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.15)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	14.59	14.5	14.41	14.32	14.25	14.17	14.09	14.02	13.95	13.85	<21dBm
58	5290	13.92	13.82	13.76	13.67	13.58	13.52	13.44	13.39	13.33	13.24	<21dBm
106	5530	14.08	--	--	--	--	--	--	--	--	--	<21dBm
122	5610	13.62	13.56	13.5	13.42	13.33	13.26	13.20	13.13	13.05	12.97	<21dBm
138(Band3)	5690	12.71	--	--	--	--	--	--	--	--	--	<21dBm
138(Band4)	5690	-0.88	--	--	--	--	--	--	--	--	--	<27dBm
155	5775	17.91	17.83	17.77	17.68	17.60	17.51	17.42	17.32	17.25	17.18	<27dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	14.07	14.02	13.97	13.92	13.87	13.79	13.72	13.67	13.61	13.55	<21dBm
58	5290	13.69	13.6	13.5	13.44	13.38	13.28	13.21	13.11	13.04	12.97	<21dBm
106	5530	14.21	--	--	--	--	--	--	--	--	--	<21dBm
122	5610	14.22	14.16	14.11	14.04	13.99	13.94	13.89	13.82	13.77	13.67	<21dBm
138(Band3)	5690	15.33	--	--	--	--	--	--	--	--	--	<21dBm
138(Band4)	5690	2.12	--	--	--	--	--	--	--	--	--	<27dBm
155	5775	19.19	19.12	19.05	18.97	18.88	18.81	18.72	18.67	18.58	18.50	<27dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	15.28	15.22	15.12	15.03	14.94	14.89	14.79	14.74	14.64	14.56	<21dBm
58	5290	15.13	15.08	15.02	14.96	14.86	14.77	14.69	14.63	14.54	14.49	<21dBm
106	5530	15.02	--	--	--	--	--	--	--	--	--	<21dBm
122	5610	15.43	15.35	15.3	15.20	15.15	15.07	14.97	14.91	14.83	14.76	<21dBm
138(Band3)	5690	13.35	--	--	--	--	--	--	--	--	--	<21dBm
138(Band4)	5690	-0.99	--	--	--	--	--	--	--	--	--	<27dBm
155	5775	19.03	18.96	18.86	18.80	18.75	18.67	18.57	18.49	18.39	18.30	<27dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	14.19	14.12	14.06	13.96	13.87	13.78	13.68	13.6	13.52	13.44	<21dBm
58	5290	13.91	13.86	13.79	13.69	13.63	13.53	13.44	13.34	13.26	13.16	<21dBm
106	5530	14.31	--	--	--	--	--	--	--	--	--	<21dBm
122	5610	14.89	14.83	14.75	14.70	14.65	14.55	14.48	14.41	14.31	14.26	<21dBm
138(Band3)	5690	15.58	--	--	--	--	--	--	--	--	--	<21dBm
138(Band4)	5690	1.24	--	--	--	--	--	--	--	--	--	<27dBm
155	5775	18.66	18.59	18.53	18.48	18.39	18.29	18.22	18.12	18.06	17.99	<27dBm

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

Maximum conducted output power Measurement

(CHAIN A+ B+C+D)

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
42	5210	--	14.590	14.070	15.280	14.190	20.58	21	Pass
58	5290	--	13.920	13.690	15.130	13.910	20.22	21	Pass
106	5530	--	14.080	14.210	15.020	14.310	20.44	21	Pass
122	5610	--	13.620	14.220	15.430	14.890	20.61	21	Pass
138	5690	--	12.710	15.330	13.350	15.580	20.44	21	Pass
138ac80(Band4)	5690	--	-0.880	2.120	-0.990	1.240	6.60	27	Pass
155	5775	--	17.910	19.190	19.030	18.660	24.75	27	Pass

Note:

- Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.16)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.71	--	--	--	--	--	--	--	<21dBm
44	5220	20.46	20.37	20.32	20.22	20.16	20.09	20.04	19.97	<21dBm
48	5240	20.63	--	--	--	--	--	--	--	<21dBm
52	5260	20.7	--	--	--	--	--	--	--	<21dBm
60	5300	20.48	20.38	20.28	20.22	20.17	20.09	20.02	19.97	<21dBm
64	5320	20.38	--	--	--	--	--	--	--	<21dBm
100	5500	20.04	--	--	--	--	--	--	--	<21dBm
116	5580	20.25	20.17	20.07	19.99	19.92	19.87	19.8	19.73	<21dBm
140	5700	20.31	--	--	--	--	--	--	--	<21dBm
149	5745	20.49	--	--	--	--	--	--	--	<27dBm
157	5785	20.76	20.7	20.6	20.55	20.49	20.44	20.39	20.3	<27dBm
165	5825	20.74	--	--	--	--	--	--	--	<27dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.65	--	--	--	--	--	--	--	<21dBm
44	5220	20.38	20.31	20.24	20.17	20.08	19.98	19.88	19.82	<21dBm
48	5240	20.55	--	--	--	--	--	--	--	<21dBm
52	5260	20.64	--	--	--	--	--	--	--	<21dBm
60	5300	20.4	20.3	20.23	20.13	20.03	19.96	19.89	19.8	<21dBm
64	5320	20.28	--	--	--	--	--	--	--	<21dBm
100	5500	19.94	--	--	--	--	--	--	--	<21dBm
116	5580	20.2	20.12	20.02	19.93	19.84	19.77	19.71	19.65	<21dBm
140	5700	20.21	--	--	--	--	--	--	--	<21dBm
149	5745	20.39	--	--	--	--	--	--	--	<27dBm
157	5785	20.67	20.59	20.52	20.47	20.42	20.35	20.25	20.16	<27dBm
165	5825	20.69	--	--	--	--	--	--	--	<27dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.62	--	--	--	--	--	--	--	<21dBm
44	5220	20.36	20.26	20.16	20.07	19.98	19.88	19.78	19.71	<21dBm
48	5240	20.57	--	--	--	--	--	--	--	<21dBm
52	5260	20.6	--	--	--	--	--	--	--	<21dBm
60	5300	20.42	20.34	20.26	20.21	20.16	20.08	20.02	19.92	<21dBm
64	5320	20.3	--	--	--	--	--	--	--	<21dBm
100	5500	19.97	--	--	--	--	--	--	--	<21dBm
116	5580	20.18	20.13	20.03	19.94	19.88	19.78	19.69	19.59	<21dBm
140	5700	20.21	--	--	--	--	--	--	--	<21dBm
149	5745	20.41	--	--	--	--	--	--	--	<27dBm
157	5785	20.69	20.64	20.59	20.54	20.46	20.41	20.36	20.26	<27dBm
165	5825	20.69	--	--	--	--	--	--	--	<27dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.64	--	--	--	--	--	--	--	<21dBm
44	5220	20.41	20.36	20.26	20.21	20.13	20.04	19.99	19.9	<21dBm
48	5240	20.54	--	--	--	--	--	--	--	<21dBm
52	5260	20.6	--	--	--	--	--	--	--	<21dBm
60	5300	20.41	20.34	20.28	20.23	20.14	20.04	19.98	19.92	<21dBm
64	5320	20.33	--	--	--	--	--	--	--	<21dBm
100	5500	19.95	--	--	--	--	--	--	--	<21dBm
116	5580	20.16	20.09	20.04	19.94	19.87	19.79	19.74	19.65	<21dBm
140	5700	20.24	--	--	--	--	--	--	--	<21dBm
149	5745	20.42	--	--	--	--	--	--	--	<27dBm
157	5785	20.69	20.64	20.55	20.5	20.4	20.32	20.27	20.2	<27dBm
165	5825	20.68	--	--	--	--	--	--	--	<27dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	20.71	--	--	--	20.71	21	Pass
44	5220	--	20.46	--	--	--	20.46	21	Pass
48	5240	--	20.63	--	--	--	20.63	21	Pass
52	5260	--	20.70	--	--	--	20.70	21	Pass
60	5300	--	20.48	--	--	--	20.48	21	Pass
64	5320	--	20.38	--	--	--	20.38	21	Pass
100	5500	--	20.04	--	--	--	20.04	21	Pass
116	5580	--	20.25	--	--	--	20.25	21	Pass
140	5700	--	20.31	--	--	--	20.31	21	Pass
149	5745	--	20.49	--	--	--	20.49	27	Pass
157	5785	--	20.76	--	--	--	20.76	27	Pass
165	5825	--	20.74	--	--	--	20.74	27	Pass

Note:

1. Power Output Value = Reading value on average power meter + cable loss

Maximum conducted output power Measurement with Transmit power Control (TPC)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	14.59	--	--	--	14.59	Pass
60	5300	14.25	--	--	--	14.25	Pass
64	5320	14.08	--	--	--	14.08	Pass
100	5500	13.76	--	--	--	13.76	Pass
116	5580	14.12	--	--	--	14.12	Pass
140	5700	13.93	--	--	--	13.93	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.16)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.52	--	--	--	--	--	--	--	<21dBm
44	5220	14.55	14.46	14.37	14.3	14.2	14.14	14.07	14	<21dBm
48	5240	14.7	--	--	--	--	--	--	--	<21dBm
52	5260	14.36	--	--	--	--	--	--	--	<21dBm
60	5300	14.44	14.37	14.3	14.24	14.19	14.1	14.05	13.95	<21dBm
64	5320	14.13	--	--	--	--	--	--	--	<21dBm
100	5500	14.29	--	--	--	--	--	--	--	<21dBm
116	5580	13.92	13.82	13.73	13.68	13.59	13.54	13.48	13.41	<21dBm
140	5700	13.27	--	--	--	--	--	--	--	<21dBm
149	5745	19.04	--	--	--	--	--	--	--	<27dBm
157	5785	19.16	19.08	18.99	18.92	18.87	18.8	18.71	18.66	<27dBm
165	5825	19.55	--	--	--	--	--	--	--	<27dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.21	--	--	--	--	--	--	--	<21dBm
44	5220	14.14	14.05	13.98	13.92	13.87	13.8	13.74	13.67	<21dBm
48	5240	14.19	--	--	--	--	--	--	--	<21dBm
52	5260	14.05	--	--	--	--	--	--	--	<21dBm
60	5300	14.34	14.26	14.19	14.13	14.04	13.94	13.86	13.78	<21dBm
64	5320	14.44	--	--	--	--	--	--	--	<21dBm
100	5500	14.53	--	--	--	--	--	--	--	<21dBm
116	5580	14.34	14.29	14.19	14.1	14.04	13.97	13.9	13.85	<21dBm
140	5700	14.79	--	--	--	--	--	--	--	<21dBm
149	5745	20.36	--	--	--	--	--	--	--	<27dBm
157	5785	20.17	20.12	20.03	19.98	19.92	19.83	19.73	19.64	<27dBm
165	5825	19.51	--	--	--	--	--	--	--	<27dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	15.37	--	--	--	--	--	--	--	<21dBm
44	5220	15.15	15.08	14.99	14.91	14.83	14.75	14.65	14.59	<21dBm
48	5240	15.38	--	--	--	--	--	--	--	<21dBm
52	5260	15.28	--	--	--	--	--	--	--	<21dBm
60	5300	15.44	15.35	15.29	15.24	15.19	15.09	15.02	14.95	<21dBm
64	5320	15.45	--	--	--	--	--	--	--	<21dBm
100	5500	15.21	--	--	--	--	--	--	--	<21dBm
116	5580	15.11	15.04	14.94	14.86	14.77	14.67	14.59	14.53	<21dBm
140	5700	15	--	--	--	--	--	--	--	<21dBm
149	5745	20.48	--	--	--	--	--	--	--	<27dBm
157	5785	20.29	20.19	20.11	20.02	19.94	19.84	19.77	19.69	<27dBm
165	5825	20.12	--	--	--	--	--	--	--	<27dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.2	--	--	--	--	--	--	--	<21dBm
44	5220	13.88	13.83	13.73	13.66	13.56	13.49	13.44	13.39	<21dBm
48	5240	13.99	--	--	--	--	--	--	--	<21dBm
52	5260	14.07	--	--	--	--	--	--	--	<21dBm
60	5300	14.16	14.1	14.01	13.92	13.86	13.76	13.69	13.59	<21dBm
64	5320	14.43	--	--	--	--	--	--	--	<21dBm
100	5500	14.75	--	--	--	--	--	--	--	<21dBm
116	5580	14.62	14.57	14.51	14.46	14.38	14.32	14.23	14.18	<21dBm
140	5700	14.53	--	--	--	--	--	--	--	<21dBm
149	5745	19.89	--	--	--	--	--	--	--	<27dBm
157	5785	19.79	19.72	19.63	19.55	19.5	19.4	19.34	19.27	<27dBm
165	5825	19.81	--	--	--	--	--	--	--	<27dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
36	5180	--	14.52	14.21	15.37	14.20	20.62	21	Pass
44	5220	--	14.55	14.14	15.15	13.88	20.48	21	Pass
48	5240	--	14.70	14.19	15.38	13.99	20.62	21	Pass
52	5260	--	14.36	14.05	15.28	14.07	20.49	21	Pass
60	5300	--	14.44	14.34	15.44	14.16	20.65	21	Pass
64	5320	--	14.13	14.44	15.45	14.43	20.66	21	Pass
100	5500	--	14.29	14.53	15.21	14.75	20.73	21	Pass
116	5580	--	13.92	14.34	15.11	14.62	20.54	21	Pass
140	5700	--	13.27	14.79	15.00	14.53	20.47	21	Pass
149	5745	--	19.04	20.36	20.48	19.89	26.00	27	Pass
157	5785	--	19.16	20.17	20.29	19.79	25.89	27	Pass
165	5825	--	19.55	19.51	20.12	19.81	25.78	27	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	8.25	7.85	9.06	7.74	14.28	Pass
60	5300	8.22	8.00	9.11	7.89	14.35	Pass
64	5320	7.78	8.21	9.15	8.21	14.39	Pass
100	5500	7.95	8.23	9.11	8.54	14.50	Pass
116	5580	7.80	8.12	8.88	8.32	14.32	Pass
140	5700	6.94	8.51	8.88	8.15	14.20	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.16)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	14.66	--	--	--	--	--	--	--	<21dBm
46	5230	14.59	14.5	14.4	14.32	14.26	14.18	14.13	14.04	<21dBm
54	5270	14.42	--	--	--	--	--	--	--	<21dBm
62	5310	14.4	14.32	14.27	14.17	14.11	14.06	14.01	13.93	<21dBm
102	5510	14.28	--	--	--	--	--	--	--	<21dBm
110	5550	14.06	14.01	13.93	13.87	13.78	13.69	13.62	13.52	<21dBm
134	5670	13.69	--	--	--	--	--	--	--	<21dBm
151	5755	18.61	--	--	--	--	--	--	--	<27Bm
159	5795	19.31	19.21	19.12	19.04	18.94	18.87	18.81	18.71	<27dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	14.57	--	--	--	--	--	--	--	<21dBm
46	5230	14.1	14.01	13.93	13.84	13.75	13.66	13.6	13.54	<21dBm
54	5270	14.17	--	--	--	--	--	--	--	<21dBm
62	5310	14.32	14.25	14.2	14.12	14.07	13.97	13.92	13.85	<21dBm
102	5510	14.49	--	--	--	--	--	--	--	<21dBm
110	5550	14.29	14.21	14.16	14.09	14.03	13.94	13.86	13.79	<21dBm
134	5670	14.74	--	--	--	--	--	--	--	<21dBm
151	5755	20.06	--	--	--	--	--	--	--	<27Bm
159	5795	20.28	20.21	20.16	20.11	20.05	19.95	19.9	19.8	<27dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	15.31	--	--	--	--	--	--	--	<21dBm
46	5230	15.43	15.34	15.25	15.19	15.09	15.02	14.92	14.85	<21dBm
54	5270	15.4	--	--	--	--	--	--	--	<21dBm
62	5310	15.47	15.38	15.28	15.22	15.13	15.08	15.01	14.91	<21dBm
102	5510	15.09	--	--	--	--	--	--	--	<21dBm
110	5550	15.18	15.12	15.02	14.95	14.89	14.79	14.72	14.63	<21dBm
134	5670	15.52	--	--	--	--	--	--	--	<21dBm
151	5755	19.91	--	--	--	--	--	--	--	<27Bm
159	5795	20.2	20.11	20.02	19.94	19.89	19.82	19.74	19.67	<27dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	14.36	--	--	--	--	--	--	--	<21dBm
46	5230	14.21	14.14	14.05	13.97	13.88	13.79	13.7	13.6	<21dBm
54	5270	14.25	--	--	--	--	--	--	--	<21dBm
62	5310	14.28	14.23	14.15	14.06	13.97	13.87	13.82	13.77	<21dBm
102	5510	14.61	--	--	--	--	--	--	--	<21dBm
110	5550	14.65	14.56	14.49	14.4	14.33	14.25	14.2	14.1	<21dBm
134	5670	14.94	--	--	--	--	--	--	--	<21dBm
151	5755	19.23	--	--	--	--	--	--	--	<27Bm
159	5795	19.92	19.87	19.82	19.77	19.67	19.59	19.49	19.41	<27dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
38	5190	--	14.66	14.57	15.31	14.36	20.76	21	Pass
46	5230	--	14.59	14.10	15.43	14.21	20.64	21	Pass
54	5270	--	14.42	14.17	15.40	14.25	20.61	21	Pass
62	5310	--	14.40	14.32	15.47	14.28	20.67	21	Pass
102	5510	--	14.28	14.49	15.09	14.61	20.65	21	Pass
110	5550	--	14.06	14.29	15.18	14.65	20.59	21	Pass
134	5670	--	13.69	14.74	15.52	14.94	20.79	21	Pass
151	5755	--	18.61	20.06	19.91	19.23	25.51	27	Pass
159	5795	--	19.31	20.28	20.20	19.92	25.96	27	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
54	5270	8.20	7.97	9.10	7.98	14.36	Pass
62	5310	8.29	8.02	9.25	8.06	14.46	Pass
102	5510	8.13	8.21	8.98	8.36	14.45	Pass
110	5550	7.84	8.17	9.06	8.35	14.40	Pass
134	5670	7.39	8.51	9.22	8.82	14.56	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.16)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	10.92	10.87	10.8	10.74	10.69	10.63	10.55	10.46	10.37	<21dBm
144 (Band4)	5720	4.78	4.7	4.63	4.55	4.49	4.4	4.35	4.26	4.21	<27dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	10.88	10.82	10.75	10.68	10.58	10.52	10.46	10.36	10.28	<21dBm
144 (Band4)	5720	4.69	4.6	4.53	4.44	4.38	4.3	4.24	4.18	4.11	<27dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	10.79	10.74	10.69	10.64	10.54	10.46	10.41	10.31	10.26	<21dBm
144 (Band4)	5720	4.63	4.53	4.43	4.36	4.26	4.16	4.06	4.01	3.92	<27dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	10.82	10.77	10.69	10.6	10.51	10.41	10.31	10.22	10.13	<21dBm
144 (Band4)	5720	4.73	4.67	4.59	4.51	4.45	4.36	4.3	4.23	4.18	<27dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
144(Band3)	5720	--	10.920	10.880	10.790	10.820	16.89	21	Pass
144(Band4)	5720	--	4.780	4.690	4.630	4.730	10.73	27	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
144(Band3)	5720	4.700	4.750	4.680	4.490	10.74	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.16)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	13.85	13.78	13.72	13.67	13.59	13.54	13.49	13.42	13.34	13.27	<21dBm
142F(Band4)	5710	3.61	3.53	3.45	3.35	3.29	3.22	3.16	3.09	3.01	2.93	<27dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	13.72	13.63	13.58	13.51	13.45	13.4	13.34	13.28	13.21	13.12	<21dBm
142F(Band4)	5710	3.53	3.43	3.38	3.32	3.24	3.17	3.09	3	2.95	2.89	<27dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	13.69	13.64	13.58	13.52	13.43	13.37	13.28	13.21	13.16	13.06	<21dBm
142F(Band4)	5710	3.71	3.61	3.52	3.44	3.34	3.25	3.2	3.12	3.06	3	<27dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	13.82	13.74	13.64	13.57	13.51	13.46	13.4	13.32	13.23	13.18	<21dBm
142F(Band4)	5710	3.65	3.59	3.49	3.42	3.33	3.28	3.18	3.13	3.08	3.01	<27dBm

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

Maximum conducted output power Measurement:**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	Result
								(dBm)	
142F(Band3)	5710	--	13.850	13.720	13.69	13.82	19.79	21	Pass
142F(Band4)	5710	--	3.610	3.530	3.71	3.65	9.65	27	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

Maximum conducted output power Measurement with Transmit power Control (TPC)**(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
142(Band3)	5710	7.630	7.380	7.50	7.53	13.53	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-130Mbps) (Antenna No.16)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	14.57	14.49	14.43	14.34	14.25	14.18	14.12	14.06	13.99	13.93	<21dBm
58	5290	13.88	13.82	13.77	13.71	13.62	13.55	13.49	13.44	13.34	13.24	<21dBm
106	5530	14.05	--	--	--	--	--	--	--	--	--	<21dBm
122	5610	13.66	13.61	13.55	13.49	13.40	13.35	13.26	13.18	13.13	13.08	<21dBm
138(Band3)	5690	12.73	--	--	--	--	--	--	--	--	--	<21dBm
138(Band4)	5690	-0.81	--	--	--	--	--	--	--	--	--	<27dBm
155	5775	17.9	17.83	17.76	17.67	17.57	17.49	17.44	17.36	17.26	17.21	<27dBm

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

Chain B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	13.97	13.9	13.85	13.75	13.68	13.6	13.53	13.45	13.35	13.27	<21dBm
58	5290	13.72	13.66	13.57	13.47	13.37	13.30	13.25	13.17	13.09	13.04	<21dBm
106	5530	14.13	--	--	--	--	--	--	--	--	--	<21dBm
122	5610	14.14	14.09	13.99	13.93	13.85	13.75	13.66	13.57	13.49	13.39	<21dBm
138(Band3)	5690	15.28	--	--	--	--	--	--	--	--	--	<21dBm
138(Band4)	5690	2.19	--	--	--	--	--	--	--	--	--	<27dBm
155	5775	19.14	19.09	18.99	18.89	18.82	18.77	18.70	18.62	18.53	18.48	<27dBm

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

Chain C

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	15.23	15.17	15.08	14.98	14.93	14.88	14.79	14.73	14.67	14.6	<21dBm
58	5290	15.16	15.1	15	14.91	14.81	14.71	14.61	14.56	14.46	14.39	<21dBm
106	5530	15.03	--	--	--	--	--	--	--	--	--	<21dBm
122	5610	15.33	15.27	15.2	15.10	15.04	14.97	14.92	14.85	14.80	14.74	<21dBm
138(Band3)	5690	13.34	--	--	--	--	--	--	--	--	--	<21dBm
138(Band4)	5690	-0.95	--	--	--	--	--	--	--	--	--	<27dBm
155	5775	19.08	19.02	18.96	18.87	18.77	18.67	18.60	18.54	18.48	18.42	<27dBm

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

Chain D

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	14.11	14.06	14.01	13.96	13.87	13.8	13.75	13.65	13.55	13.49	<21dBm
58	5290	13.96	13.87	13.79	13.72	13.64	13.54	13.49	13.42	13.35	13.29	<21dBm
106	5530	14.36	--	--	--	--	--	--	--	--	--	<21dBm
122	5610	14.93	14.86	14.8	14.73	14.66	14.58	14.51	14.42	14.33	14.23	<21dBm
138(Band3)	5690	15.63	--	--	--	--	--	--	--	--	--	<21dBm
138(Band4)	5690	1.41	--	--	--	--	--	--	--	--	--	<27dBm
155	5775	18.57	18.48	18.41	18.35	18.26	18.21	18.13	18.05	17.95	17.88	<27dBm

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

**Maximum conducted output power Measurement
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit (dBm)	Result
42	5210	--	14.570	13.970	15.230	14.110	20.52	21	Pass
58	5290	--	13.880	13.720	15.160	13.960	20.24	21	Pass
106	5530	--	14.050	14.130	15.030	14.360	20.43	21	Pass
122	5610	--	13.660	14.140	15.330	14.930	20.58	21	Pass
138	5690	--	12.730	15.280	13.340	15.630	20.44	21	Pass
138ac80(Band4)	5690	--	-0.810	2.190	-0.950	1.410	6.70	27	Pass
155	5775	--	17.900	19.140	19.080	18.570	24.72	27	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
58	5290	7.640	7.430	8.930	7.730	13.99	Pass
106	5530	7.830	7.780	8.700	8.080	14.13	Pass
122	5610	7.360	8.040	9.100	8.820	14.40	Pass
138	5690	6.600	9.080	7.230	9.280	14.22	Pass

Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.17)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.43	--	--	--	--	--	--	--	<22dBm
44	5220	19.61	19.56	19.47	19.38	19.28	19.21	19.13	19.03	<22dBm
48	5240	19.21	--	--	--	--	--	--	--	<22dBm
52	5260	19.67	--	--	--	--	--	--	--	<22dBm
60	5300	20.03	19.95	19.88	19.83	19.77	19.72	19.67	19.61	<22dBm
64	5320	19.89	--	--	--	--	--	--	--	<22dBm
100	5500	21.18	--	--	--	--	--	--	--	<22dBm
116	5580	21.78	21.72	21.63	21.57	21.51	21.41	21.32	21.22	<22dBm
140	5700	20.92	--	--	--	--	--	--	--	<22dBm
149	5745	20.74	--	--	--	--	--	--	--	<28dBm
157	5785	20.95	20.9	20.85	20.79	20.71	20.63	20.53	20.44	<28dBm
165	5825	20.69	--	--	--	--	--	--	--	<28dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.34	--	--	--	--	--	--	--	<22dBm
44	5220	19.56	19.48	19.39	19.32	19.24	19.17	19.09	19	<22dBm
48	5240	19.11	--	--	--	--	--	--	--	<22dBm
52	5260	19.59	--	--	--	--	--	--	--	<22dBm
60	5300	19.93	19.83	19.78	19.7	19.62	19.54	19.46	19.41	<22dBm
64	5320	19.8	--	--	--	--	--	--	--	<22dBm
100	5500	21.13	--	--	--	--	--	--	--	<22dBm
116	5580	21.69	21.63	21.57	21.47	21.4	21.35	21.27	21.18	<22dBm
140	5700	20.83	--	--	--	--	--	--	--	<22dBm
149	5745	20.69	--	--	--	--	--	--	--	<28dBm
157	5785	20.9	20.81	20.73	20.63	20.55	20.45	20.35	20.29	<28dBm
165	5825	20.61	--	--	--	--	--	--	--	<28dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.37	--	--	--	--	--	--	--	<22dBm
44	5220	19.56	19.49	19.4	19.34	19.28	19.19	19.1	19.01	<22dBm
48	5240	19.13	--	--	--	--	--	--	--	<22dBm
52	5260	19.59	--	--	--	--	--	--	--	<22dBm
60	5300	19.98	19.92	19.87	19.77	19.71	19.64	19.57	19.49	<22dBm
64	5320	19.8	--	--	--	--	--	--	--	<22dBm
100	5500	21.08	--	--	--	--	--	--	--	<22dBm
116	5580	21.73	21.63	21.53	21.45	21.4	21.3	21.2	21.15	<22dBm
140	5700	20.82	--	--	--	--	--	--	--	<22dBm
149	5745	20.69	--	--	--	--	--	--	--	<28dBm
157	5785	20.88	20.78	20.71	20.61	20.54	20.48	20.39	20.33	<28dBm
165	5825	20.64	--	--	--	--	--	--	--	<28dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	20.37	--	--	--	--	--	--	--	<22dBm
44	5220	19.51	19.46	19.37	19.27	19.2	19.1	19.04	18.99	<22dBm
48	5240	19.11	--	--	--	--	--	--	--	<22dBm
52	5260	19.61	--	--	--	--	--	--	--	<22dBm
60	5300	19.94	19.88	19.81	19.74	19.64	19.57	19.52	19.43	<22dBm
64	5320	19.8	--	--	--	--	--	--	--	<22dBm
100	5500	21.12	--	--	--	--	--	--	--	<22dBm
116	5580	21.73	21.64	21.59	21.5	21.45	21.39	21.33	21.23	<22dBm
140	5700	20.86	--	--	--	--	--	--	--	<22dBm
149	5745	20.65	--	--	--	--	--	--	--	<28dBm
157	5785	20.9	20.84	20.75	20.68	20.6	20.54	20.44	20.37	<28dBm
165	5825	20.62	--	--	--	--	--	--	--	<28dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit		Result
								(dBm)	$\text{dBm} + 10\log(\text{BW})$	
36	5180	--	20.43	--	--	--	20.43	22	--	Pass
44	5220	--	19.61	--	--	--	19.61	22	--	Pass
48	5240	--	19.21	--	--	--	19.21	22	--	Pass
52	5260	16.477	19.67	--	--	--	19.67	22	23.17	Pass
60	5300	16.468	20.03	--	--	--	20.03	22	23.17	Pass
64	5320	16.485	19.89	--	--	--	19.89	22	23.17	Pass
100	5500	16.477	21.18	--	--	--	21.18	22	23.17	Pass
116	5580	16.499	21.78	--	--	--	21.78	22	23.17	Pass
140	5700	16.478	20.92	--	--	--	20.92	22	23.17	Pass
149	5745	--	20.74	--	--	--	20.74	28	--	Pass
157	5785	--	20.95	--	--	--	20.95	28	--	Pass
165	5825	--	20.69	--	--	--	20.69	28	--	Pass

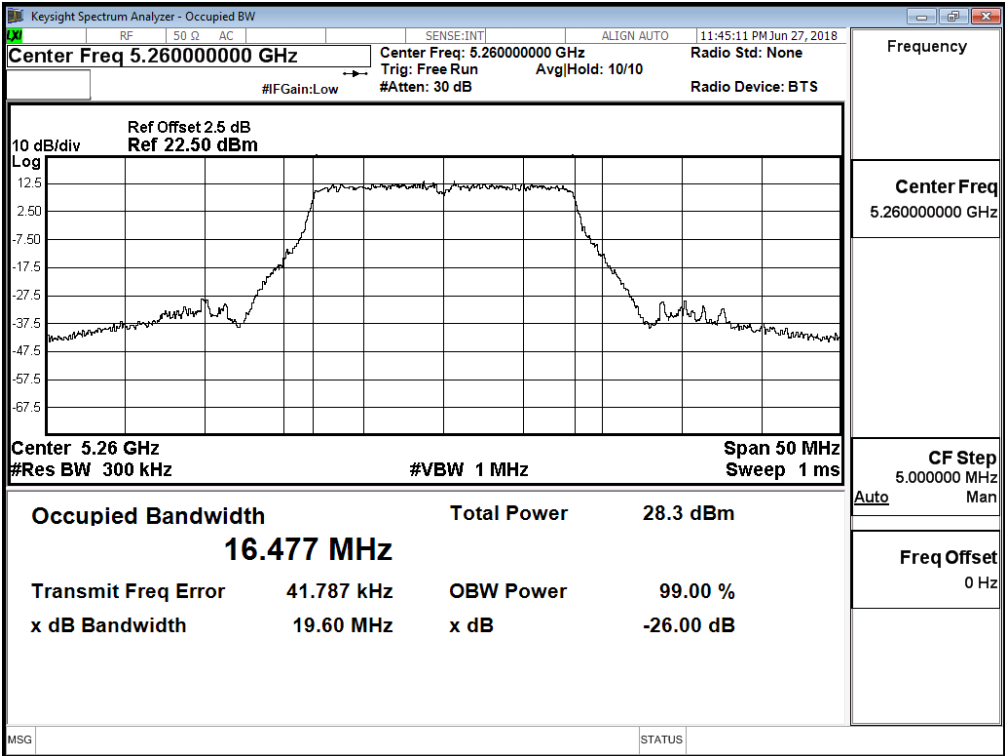
Note:

1. Output Power (dBm) = $10 \cdot \text{LOG} (\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)})$
2. 26 dB Bandwidth is the bandwidth of chain A, chain B, chain C or chain D whichever is less bandwidth, output power limitation is more stringent.

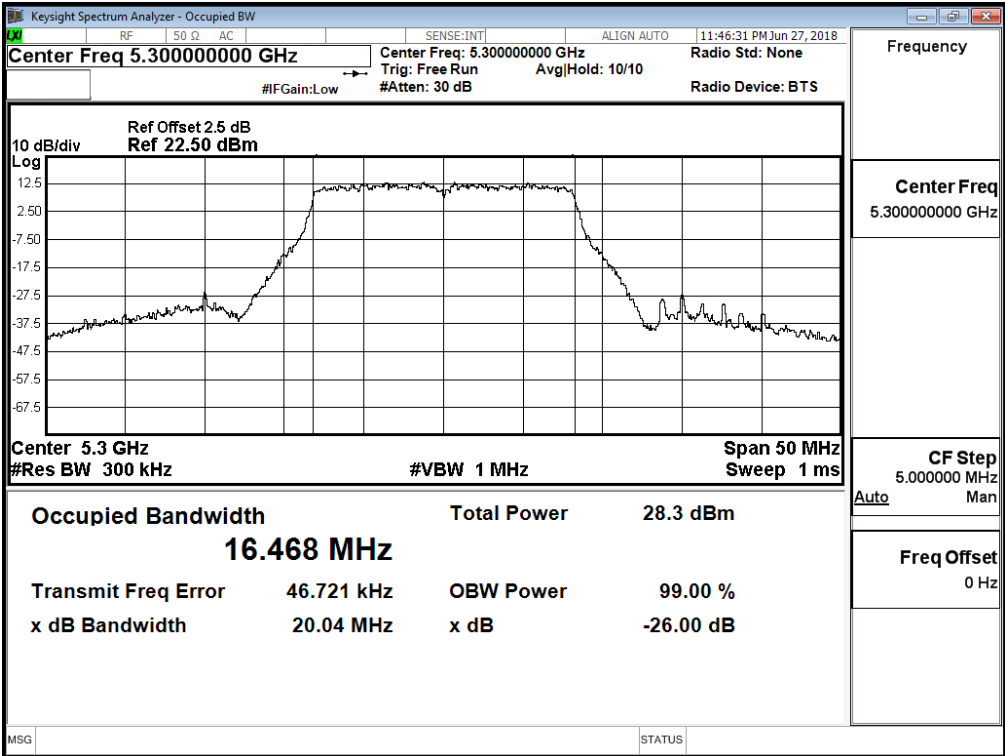
Maximum conducted output power Measurement with Transmit power Control (TPC)

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	13.45	--	--	--	13.45	Pass
60	5300	13.90	--	--	--	13.90	Pass
64	5320	13.66	--	--	--	13.66	Pass
100	5500	14.38	--	--	--	14.38	Pass
116	5580	14.40	--	--	--	14.40	Pass
140	5700	14.64	--	--	--	14.64	Pass

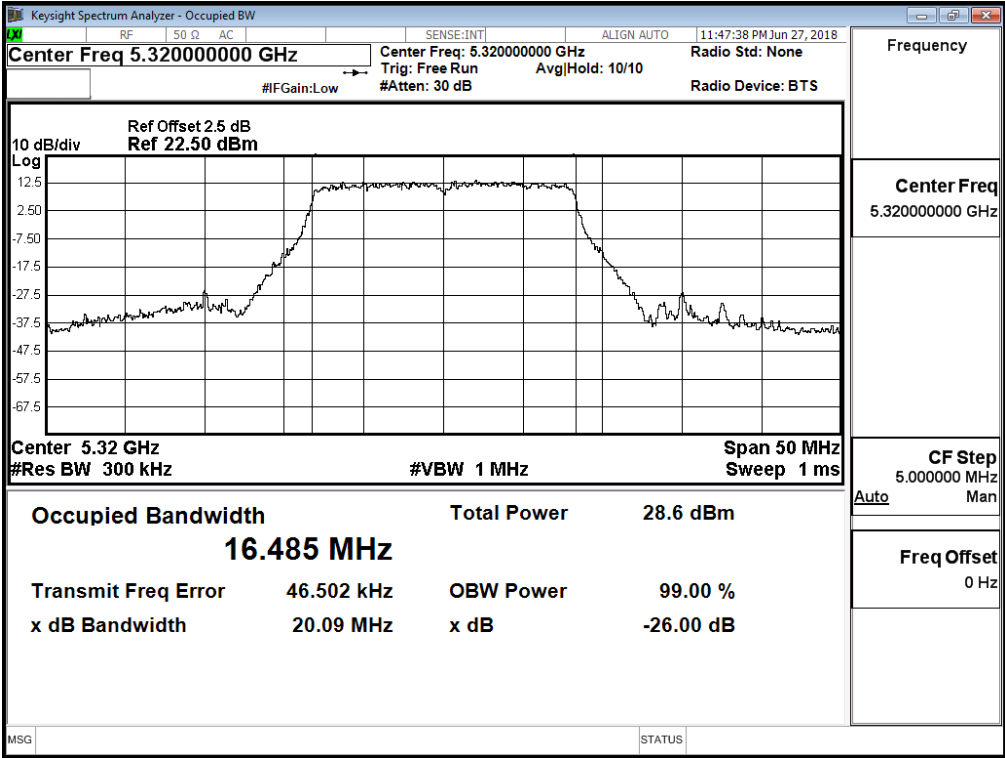
99% Bandwidth:
Channel 52:



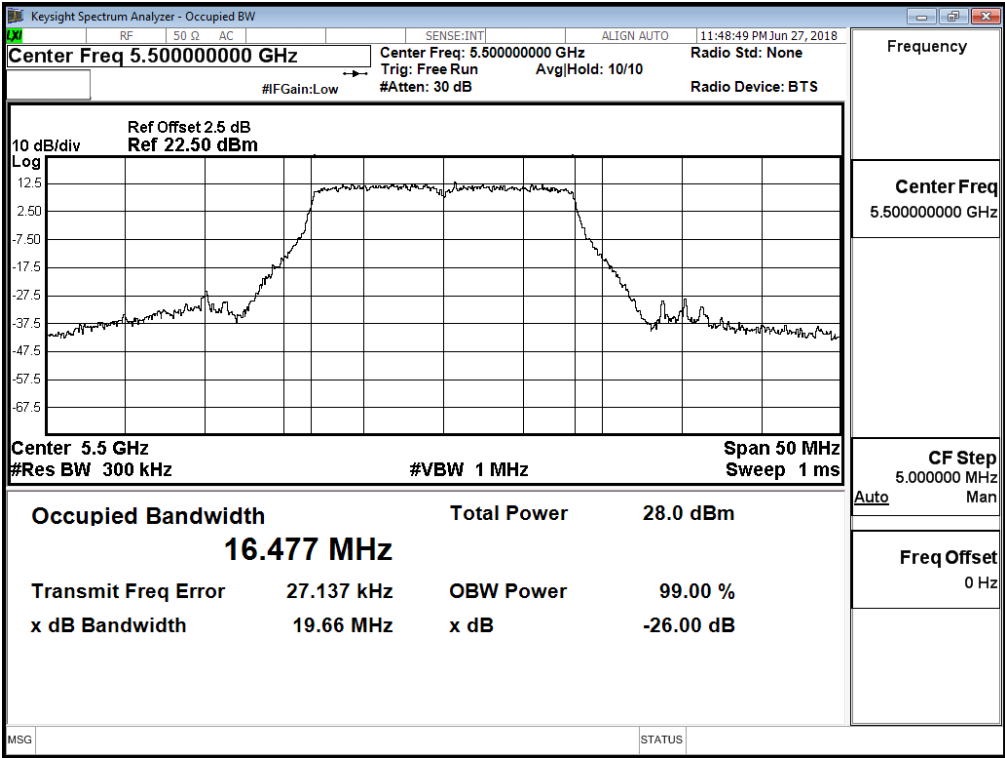
Channel 60:



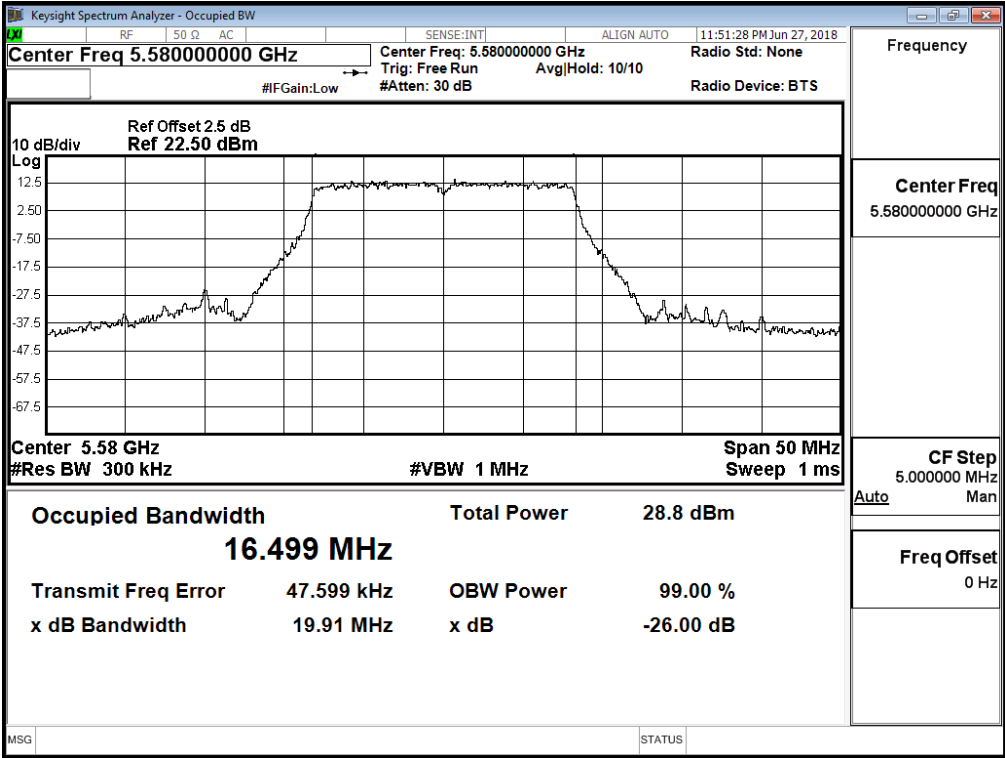
Channel 64:



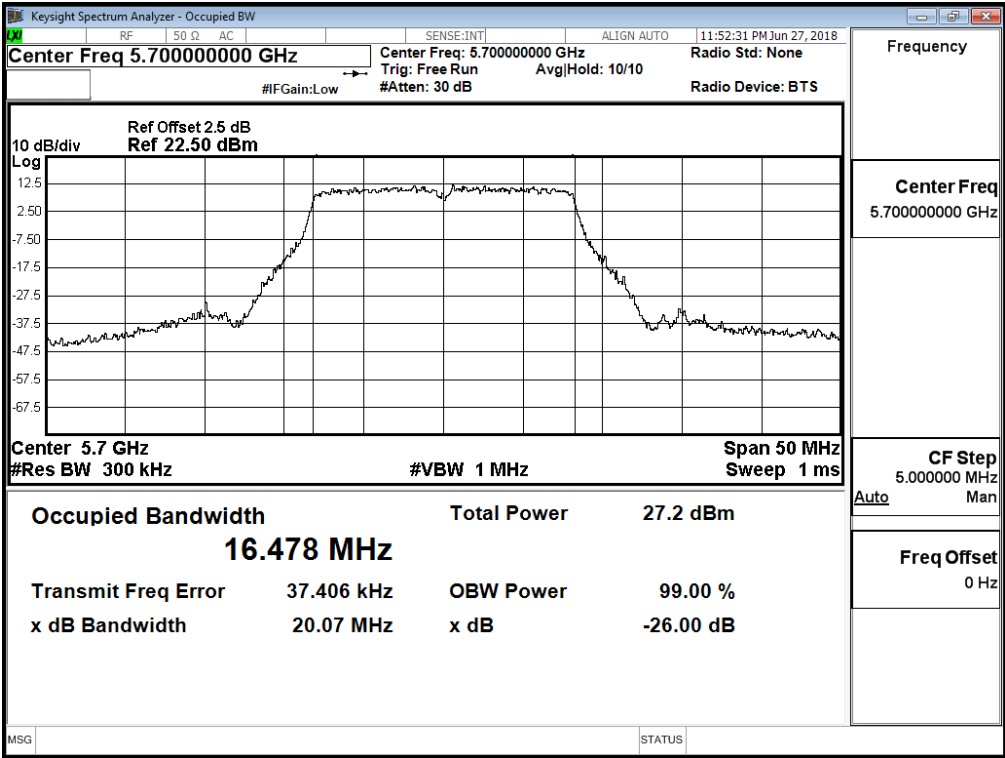
Channel 100:



Channel 116:



Channel 140:



Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.17)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	13.34	--	--	--	--	--	--	--	<22dBm
44	5220	13.18	13.11	13.05	12.99	12.89	12.83	12.73	12.67	<22dBm
48	5240	12.75	--	--	--	--	--	--	--	<22dBm
52	5260	13.04	--	--	--	--	--	--	--	<22dBm
60	5300	12.82	12.73	12.67	12.61	12.54	12.47	12.42	12.37	<22dBm
64	5320	12.46	--	--	--	--	--	--	--	<22dBm
100	5500	13.01	--	--	--	--	--	--	--	<22dBm
116	5580	12.79	12.74	12.68	12.62	12.56	12.47	12.41	12.36	<22dBm
140	5700	12.29	--	--	--	--	--	--	--	<22dBm
149	5745	18.89	--	--	--	--	--	--	--	<28dBm
157	5785	19.25	19.18	19.1	19	18.92	18.83	18.76	18.66	<28dBm
165	5825	19.97	--	--	--	--	--	--	--	<28dBm

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

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	12.98	--	--	--	--	--	--	--	<22dBm
44	5220	12.58	12.49	12.4	12.3	12.23	12.17	12.11	12.03	<22dBm
48	5240	11.75	--	--	--	--	--	--	--	<22dBm
52	5260	12.4	--	--	--	--	--	--	--	<22dBm
60	5300	12.68	12.6	12.55	12.47	12.42	12.37	12.31	12.23	<22dBm
64	5320	12.15	--	--	--	--	--	--	--	<22dBm
100	5500	12.26	--	--	--	--	--	--	--	<22dBm
116	5580	11.81	11.75	11.7	11.61	11.56	11.48	11.42	11.36	<22dBm
140	5700	12.19	--	--	--	--	--	--	--	<22dBm
149	5745	18.45	--	--	--	--	--	--	--	<28dBm
157	5785	18.33	18.27	18.17	18.09	18.01	17.92	17.82	17.75	<28dBm
165	5825	18.67	--	--	--	--	--	--	--	<28dBm

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

CHAIN C

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	14.61	--	--	--	--	--	--	--	<22dBm
44	5220	13.59	13.53	13.46	13.4	13.31	13.25	13.2	13.13	<22dBm
48	5240	13.22	--	--	--	--	--	--	--	<22dBm
52	5260	13.56	--	--	--	--	--	--	--	<22dBm
60	5300	13.7	13.65	13.57	13.52	13.43	13.36	13.3	13.25	<22dBm
64	5320	13.72	--	--	--	--	--	--	--	<22dBm
100	5500	13.04	--	--	--	--	--	--	--	<22dBm
116	5580	12.56	12.51	12.42	12.36	12.3	12.2	12.15	12.06	<22dBm
140	5700	12.31	--	--	--	--	--	--	--	<22dBm
149	5745	18.61	--	--	--	--	--	--	--	<28dBm
157	5785	18.61	18.55	18.47	18.39	18.34	18.24	18.17	18.1	<28dBm
165	5825	18.86	--	--	--	--	--	--	--	<28dBm

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

CHAIN D

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	12.93	--	--	--	--	--	--	--	<22dBm
44	5220	12.9	12.85	12.77	12.7	12.64	12.57	12.5	12.44	<22dBm
48	5240	12.31	--	--	--	--	--	--	--	<22dBm
52	5260	12.38	--	--	--	--	--	--	--	<22dBm
60	5300	12.44	12.35	12.3	12.23	12.16	12.09	12.03	11.96	<22dBm
64	5320	12.49	--	--	--	--	--	--	--	<22dBm
100	5500	13.03	--	--	--	--	--	--	--	<22dBm
116	5580	13.03	12.94	12.86	12.78	12.69	12.59	12.49	12.42	<22dBm
140	5700	12.64	--	--	--	--	--	--	--	<22dBm
149	5745	19.56	--	--	--	--	--	--	--	<28dBm
157	5785	19.51	19.44	19.36	19.28	19.22	19.17	19.12	19.05	<28dBm
165	5825	19.98	--	--	--	--	--	--	--	<28dBm

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

**Maximum conducted output power Measurement:
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit		Result
								(dBm)	dBm+10log(BW)	
36	5180	--	13.34	12.98	14.61	12.93	19.54	22	--	Pass
44	5220	--	13.18	12.58	13.59	12.90	19.10	22	--	Pass
48	5240	--	12.75	11.75	13.22	12.31	18.56	22	--	Pass
52	5260	17.890	13.04	12.40	13.56	12.38	18.89	22	23.53	Pass
60	5300	17.886	12.82	12.68	13.70	12.44	18.96	22	23.53	Pass
64	5320	17.879	12.46	12.15	13.72	12.49	18.77	22	23.52	Pass
100	5500	17.870	13.01	12.26	13.04	13.03	18.87	22	23.52	Pass
116	5580	17.885	12.79	11.81	12.56	13.03	18.59	22	23.52	Pass
140	5700	17.896	12.29	12.19	12.31	12.64	18.38	22	23.53	Pass
149	5745	--	18.89	18.45	18.61	19.56	24.92	28	--	Pass
157	5785	--	19.25	18.33	18.61	19.51	24.97	28	--	Pass
165	5825	--	19.97	18.67	18.86	19.98	25.43	28	--	Pass

Note:

1. Output Power (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW) + Chain C (mW) + Chain D (mW))
2. 26 dB Bandwidth is the bandwidth of chain A, chain B, chain C or chain D whichever is less bandwidth, output power limitation is more stringent.

**Maximum conducted output power Measurement with Transmit power Control (TPC)
(CHAIN A+ B+C+D)**

Channel No	Frequency Range (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Result
52	5260	6.84	6.27	7.31	6.05	12.67	Pass
60	5300	6.48	6.46	7.41	6.22	12.69	Pass
64	5320	6.33	5.77	7.50	6.20	12.52	Pass
100	5500	6.83	6.16	6.91	6.90	12.73	Pass
116	5580	6.57	5.61	6.46	6.74	12.39	Pass
140	5700	5.99	5.94	6.01	6.40	12.11	Pass