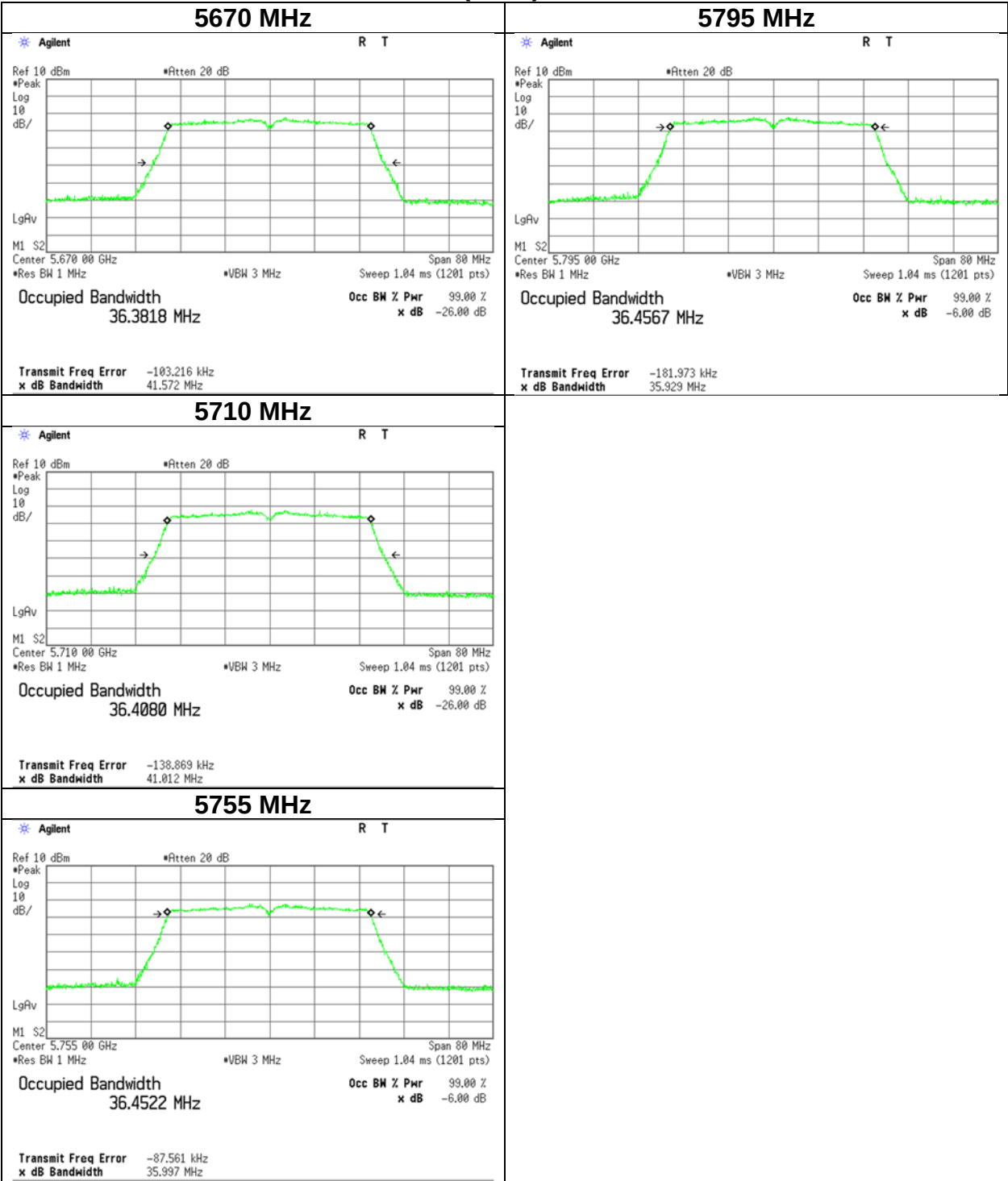


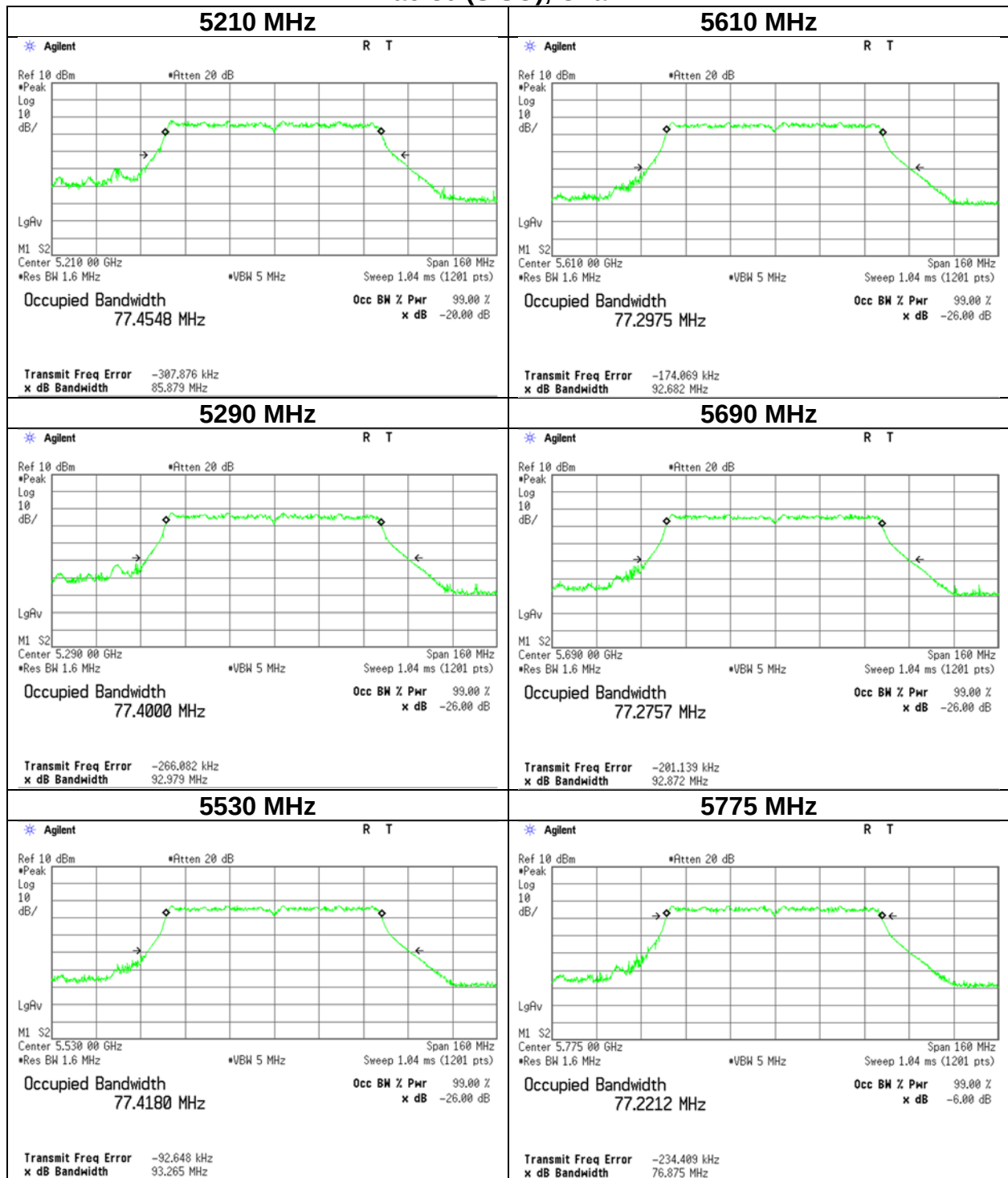
99 % Occupied Bandwidth

11ac-40 (SISO), Chain 2



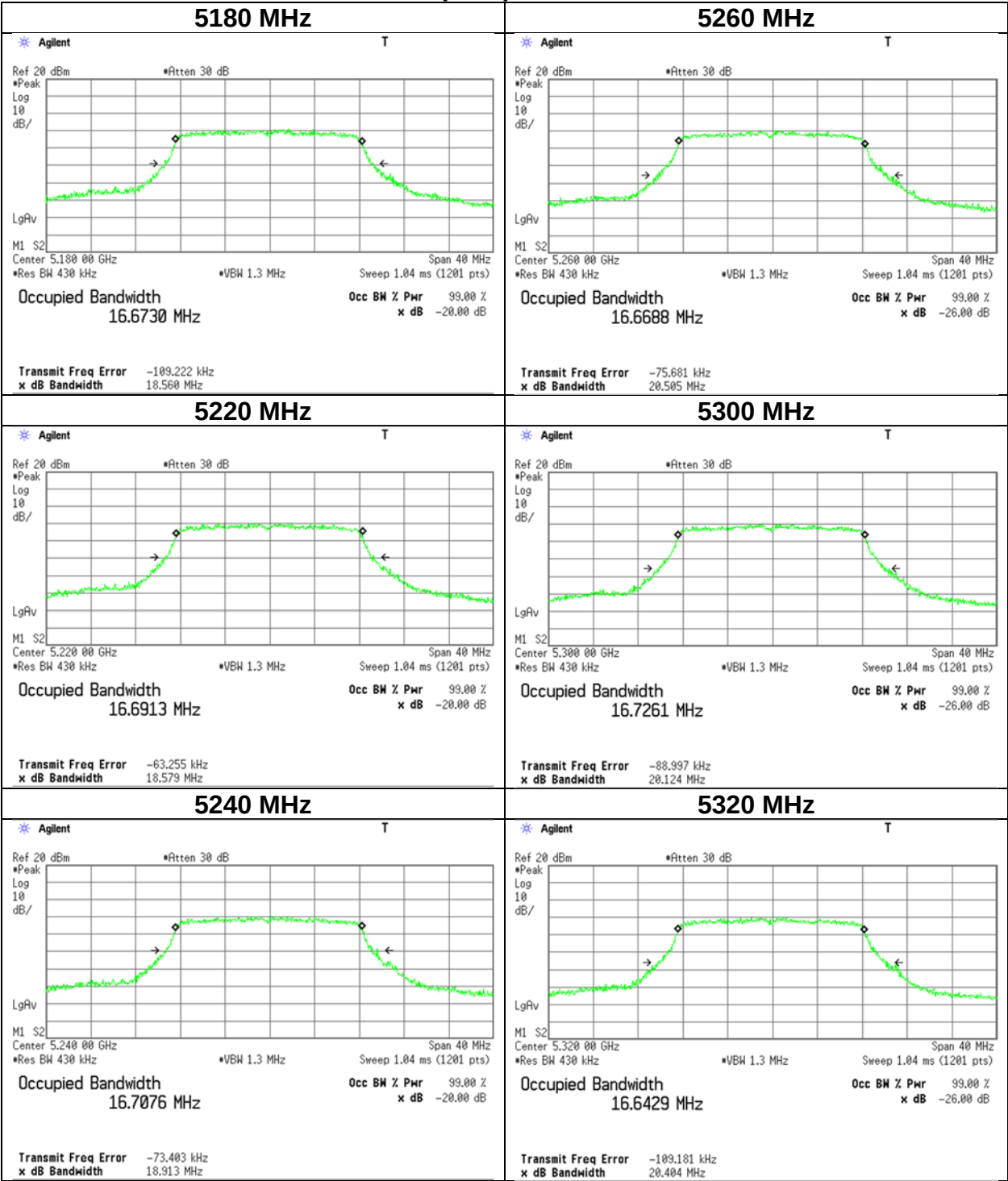
99 % Occupied Bandwidth

11ac-80 (SISO), Chain 2



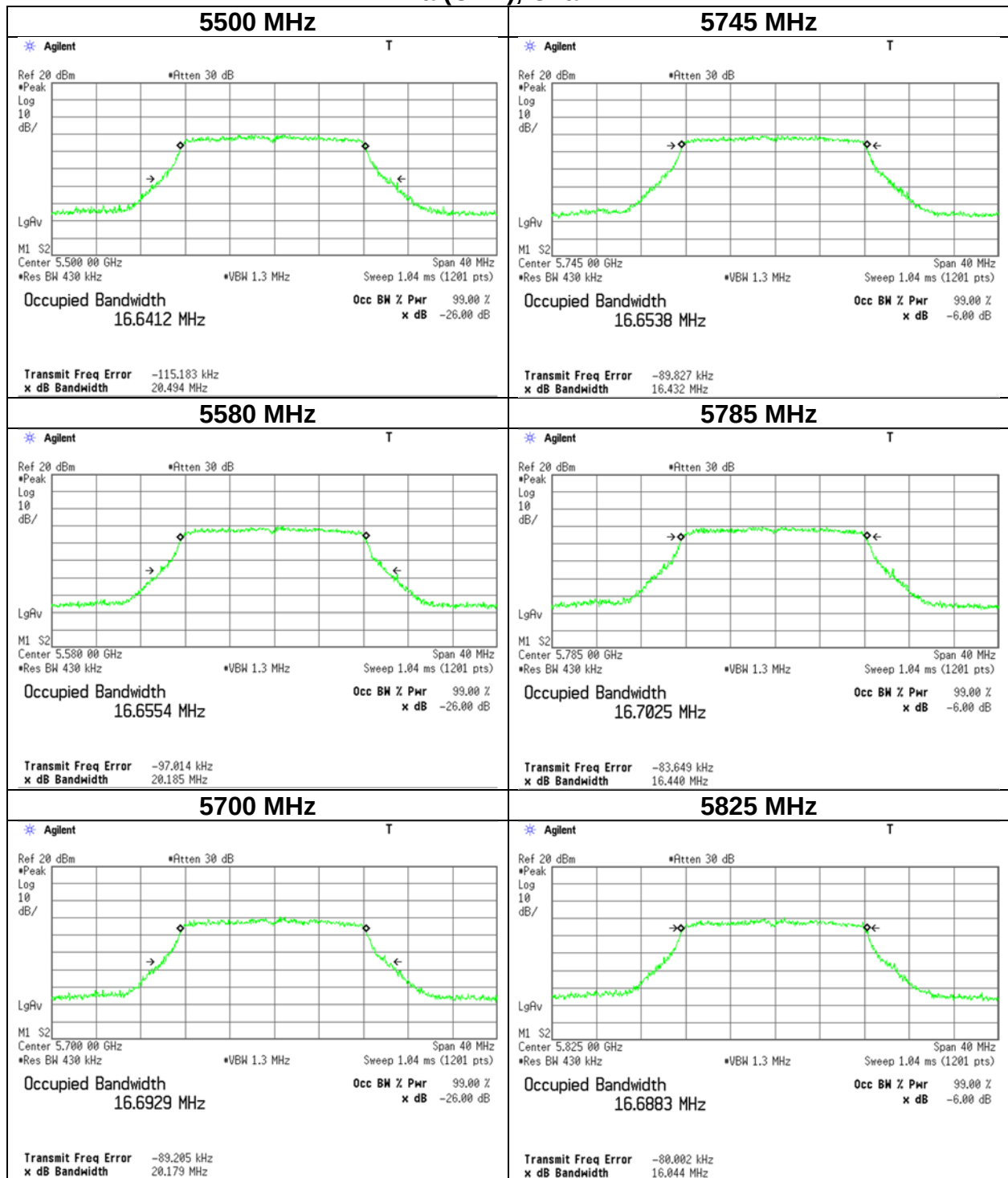
99 % Occupied Bandwidth

11a (CDD), Chain 2



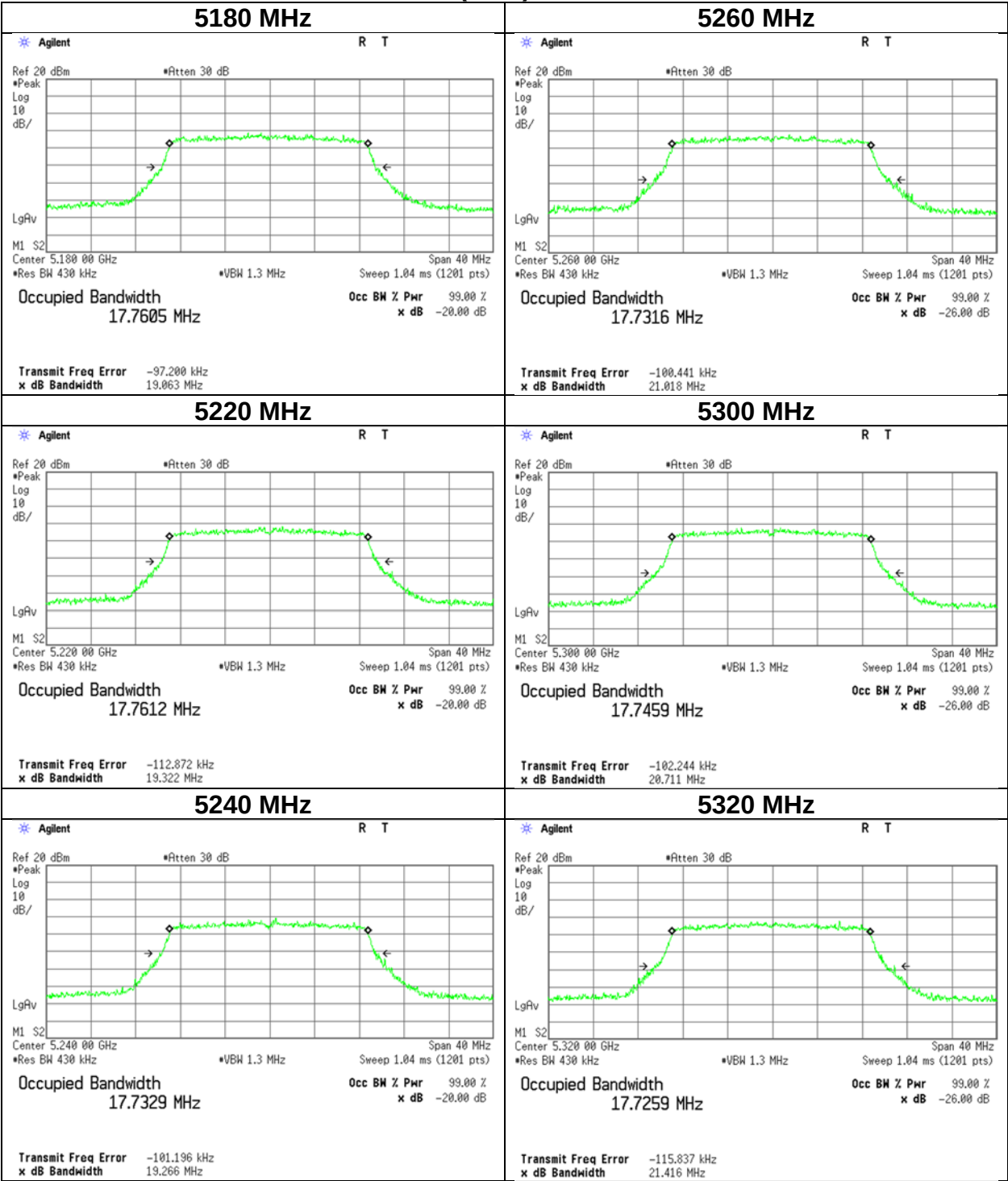
99 % Occupied Bandwidth

11a (CDD), Chain 2



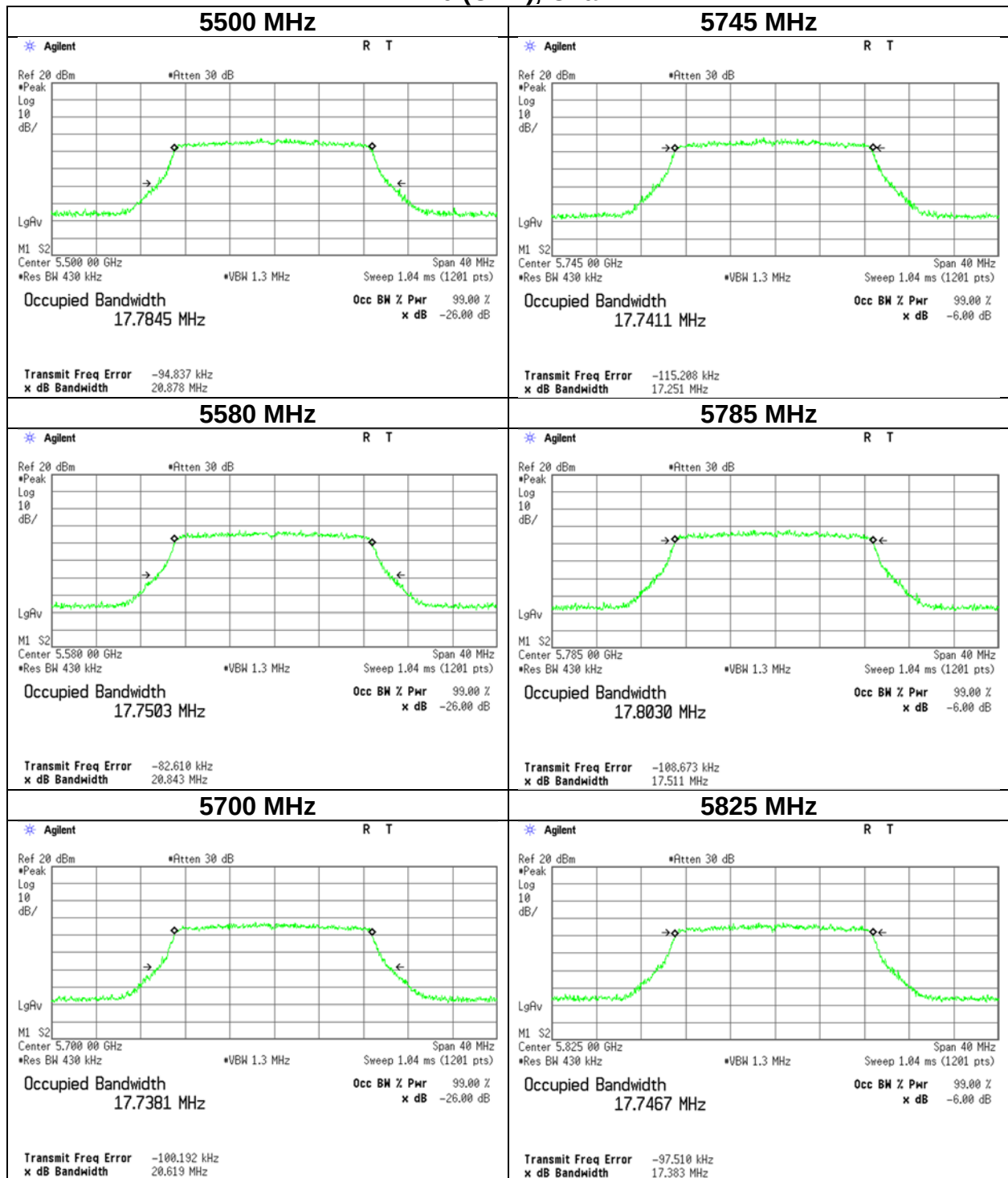
99 % Occupied Bandwidth

11n-20 (CDD), Chain 2



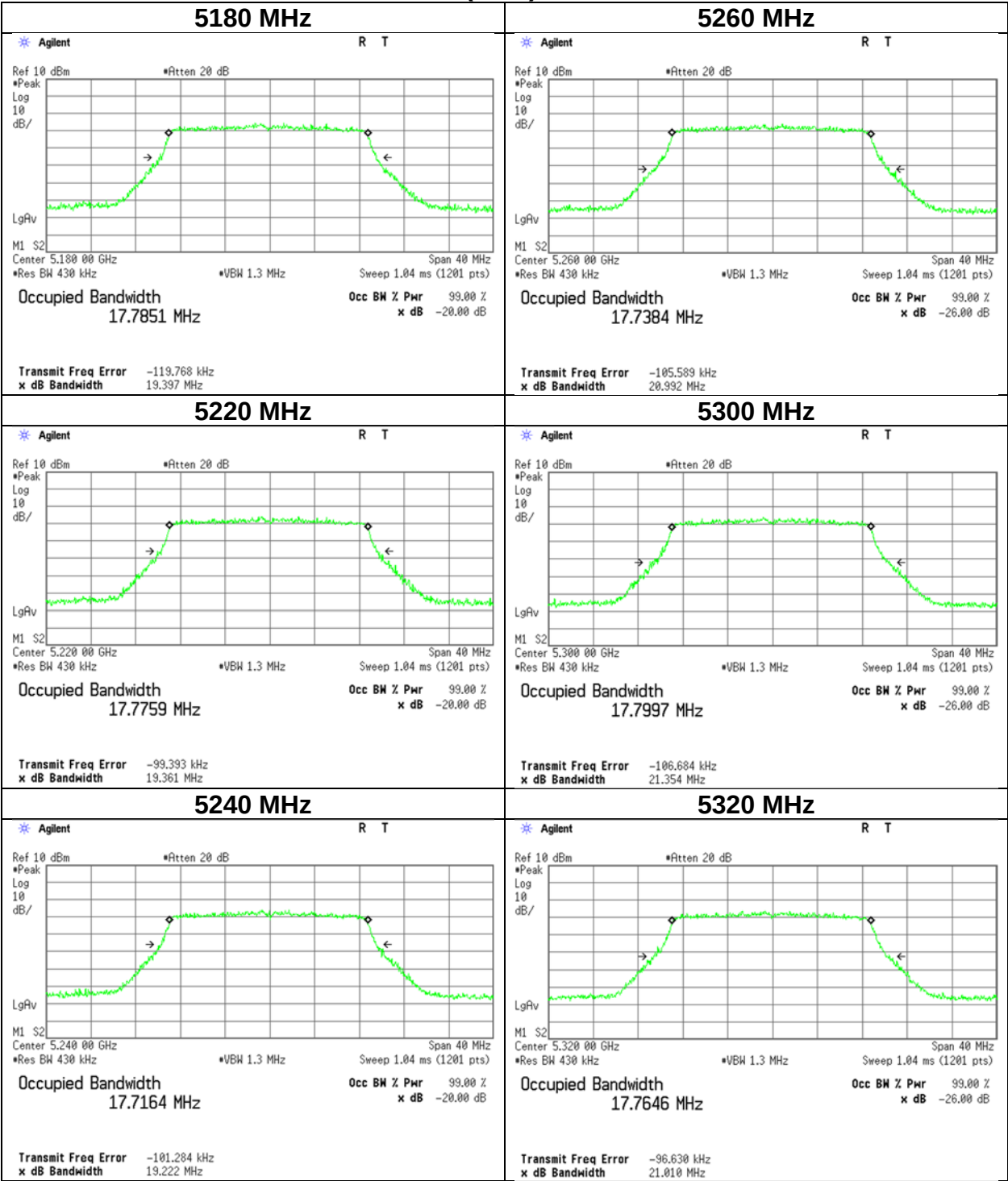
99 % Occupied Bandwidth

11n-20 (CDD), Chain 2



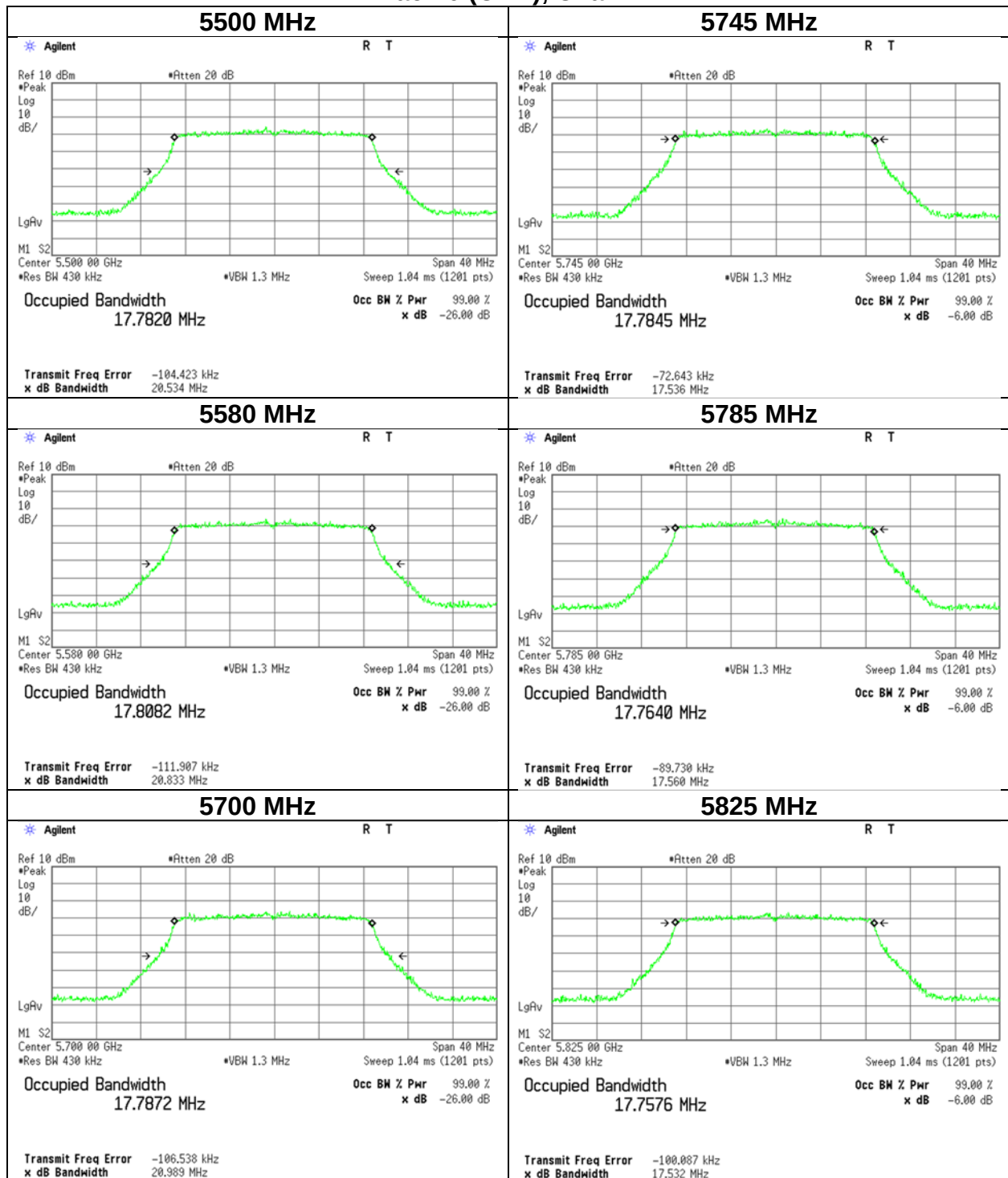
99 % Occupied Bandwidth

11ac-20 (CDD), Chain 2

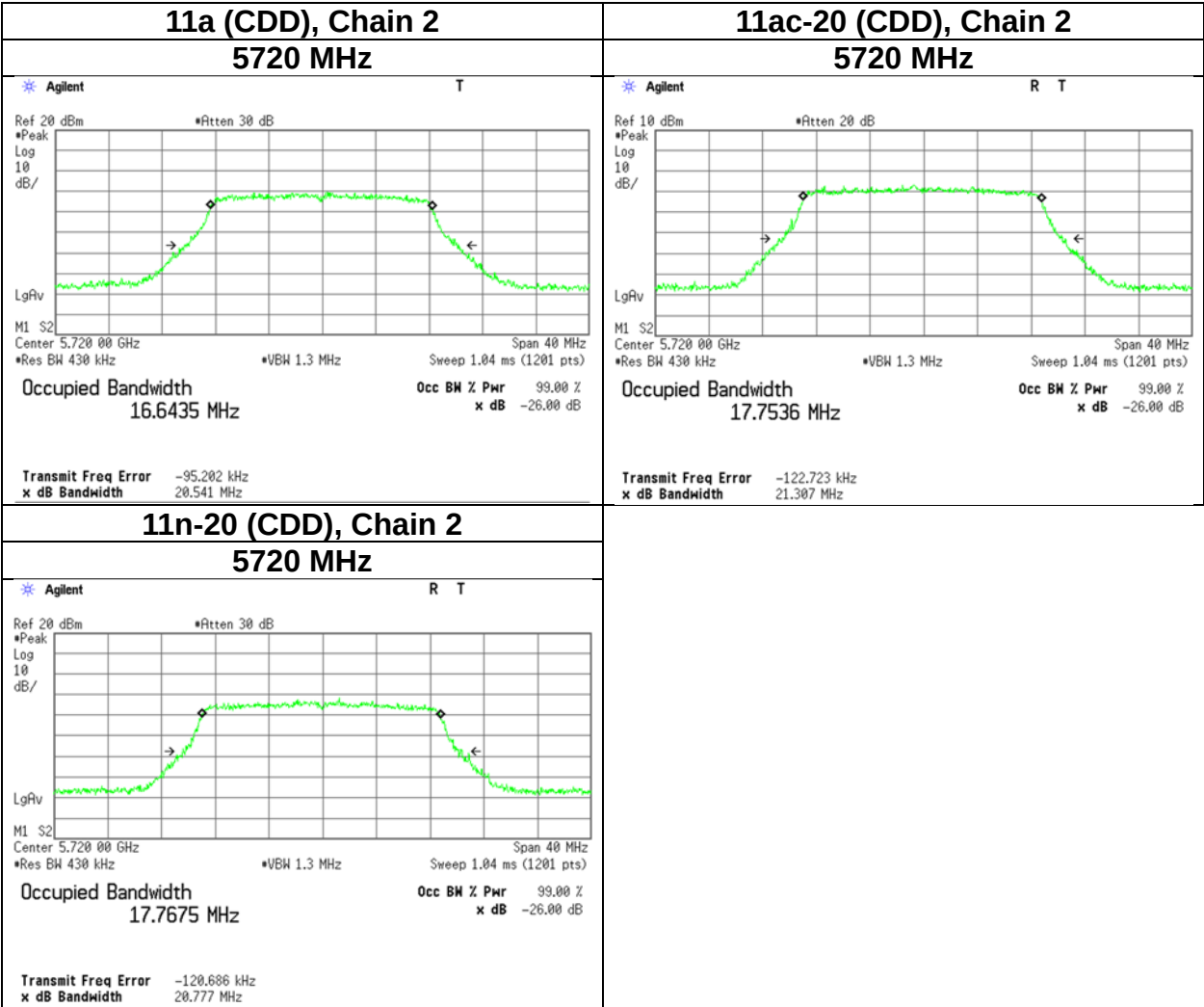


99 % Occupied Bandwidth

11ac-20 (CDD), Chain 2

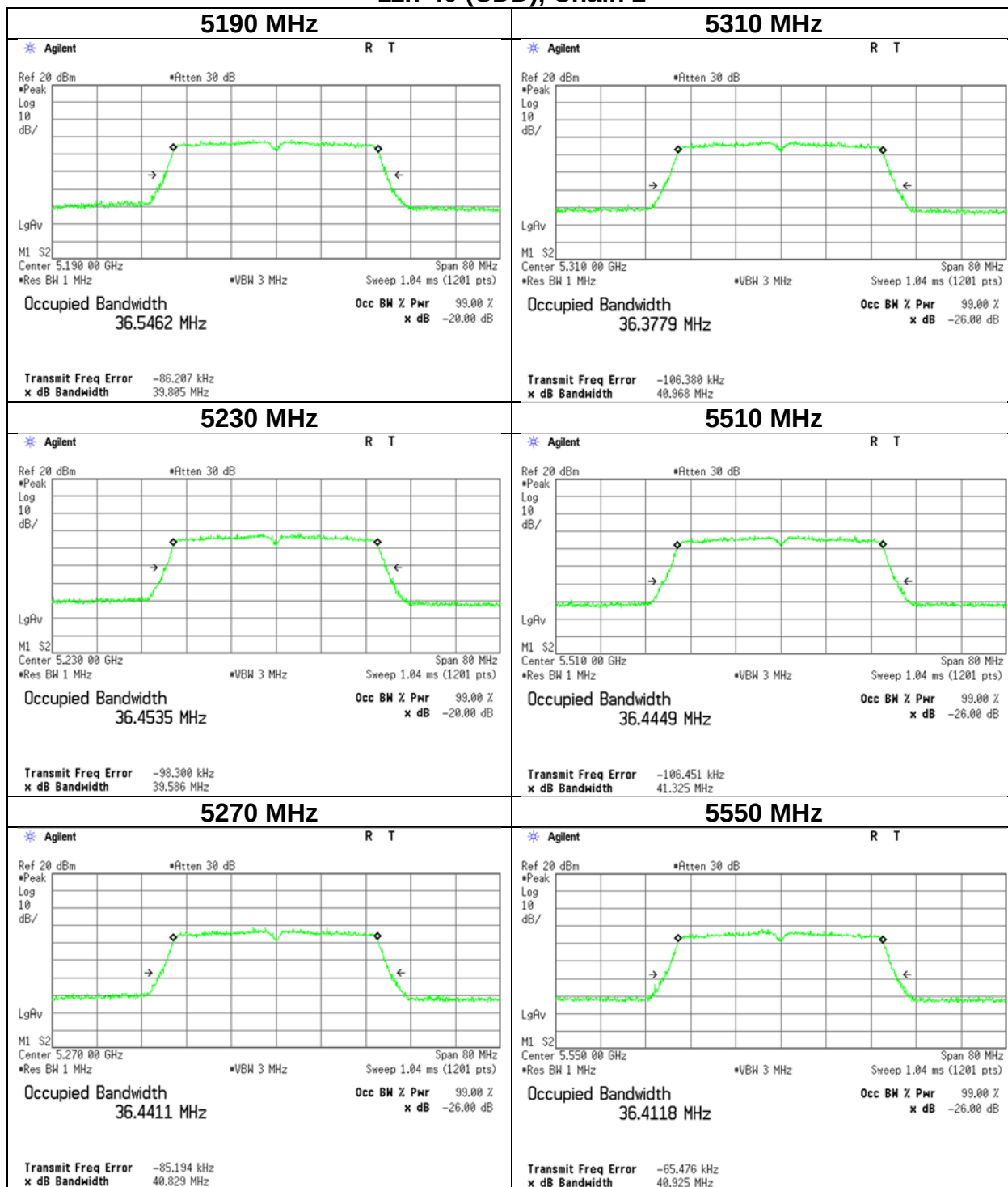


99 % Occupied Bandwidth



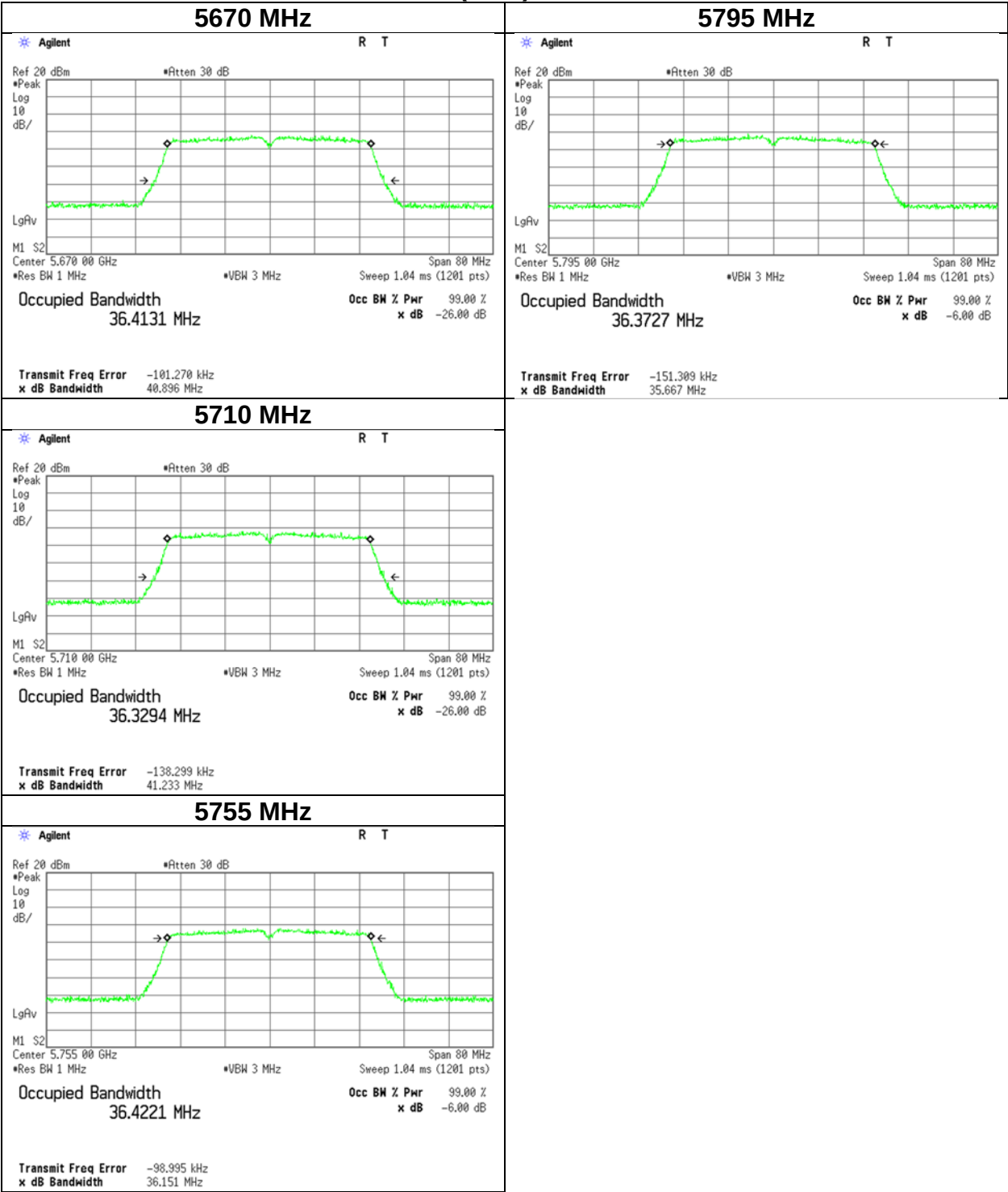
99 % Occupied Bandwidth

11n-40 (CDD), Chain 2



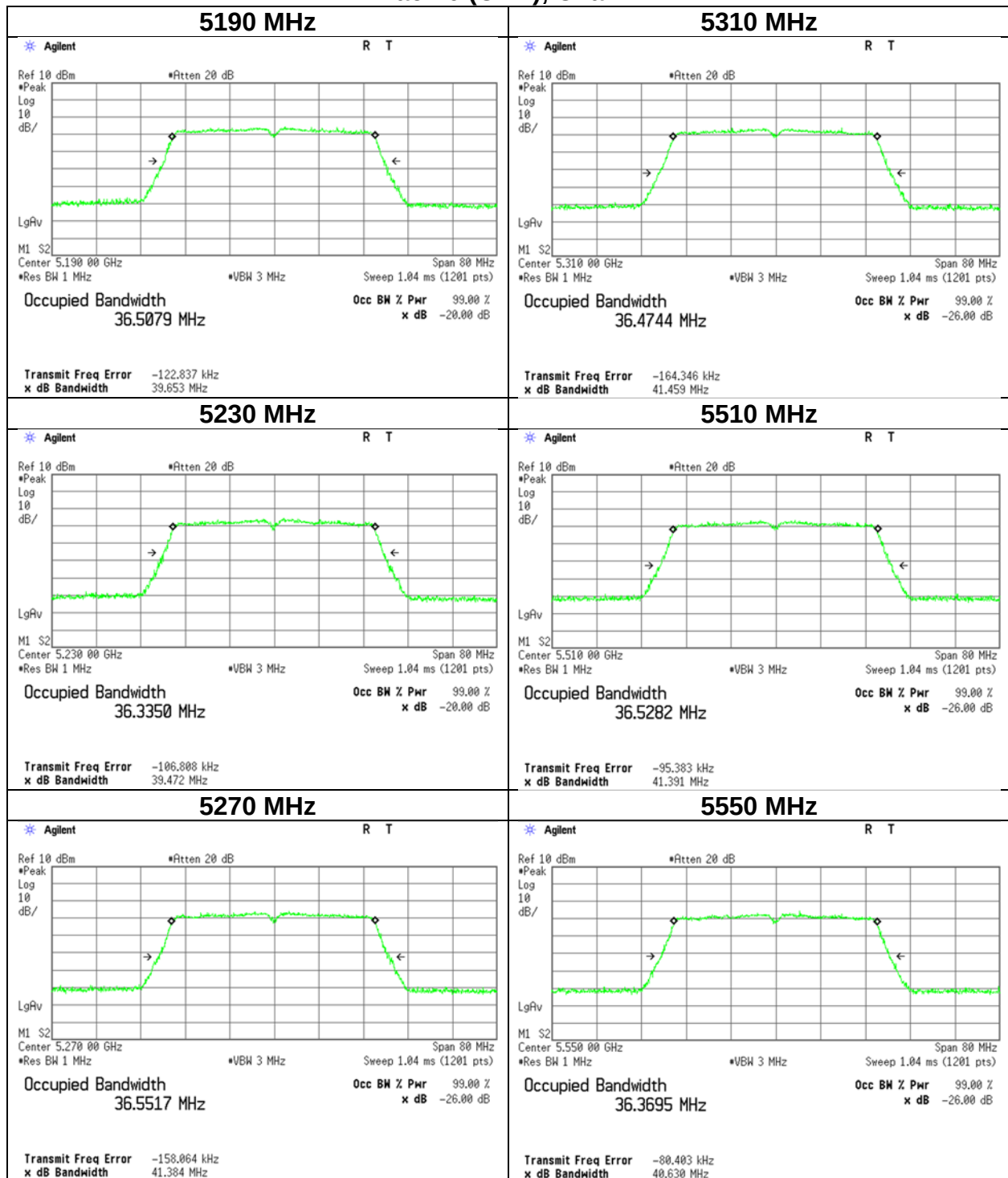
99 % Occupied Bandwidth

11n-40 (CDD), Chain 2



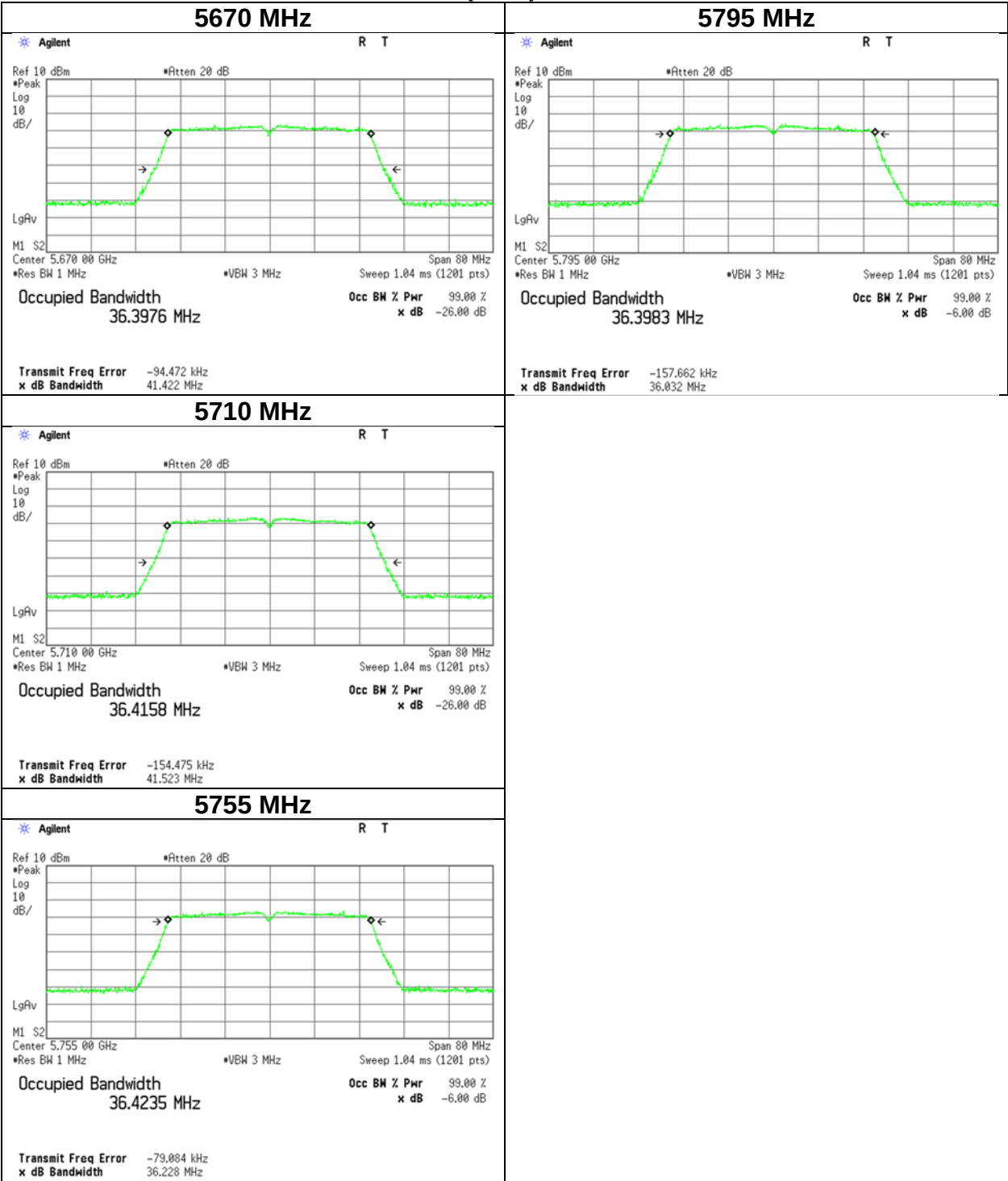
99 % Occupied Bandwidth

11ac-40 (CDD), Chain 2



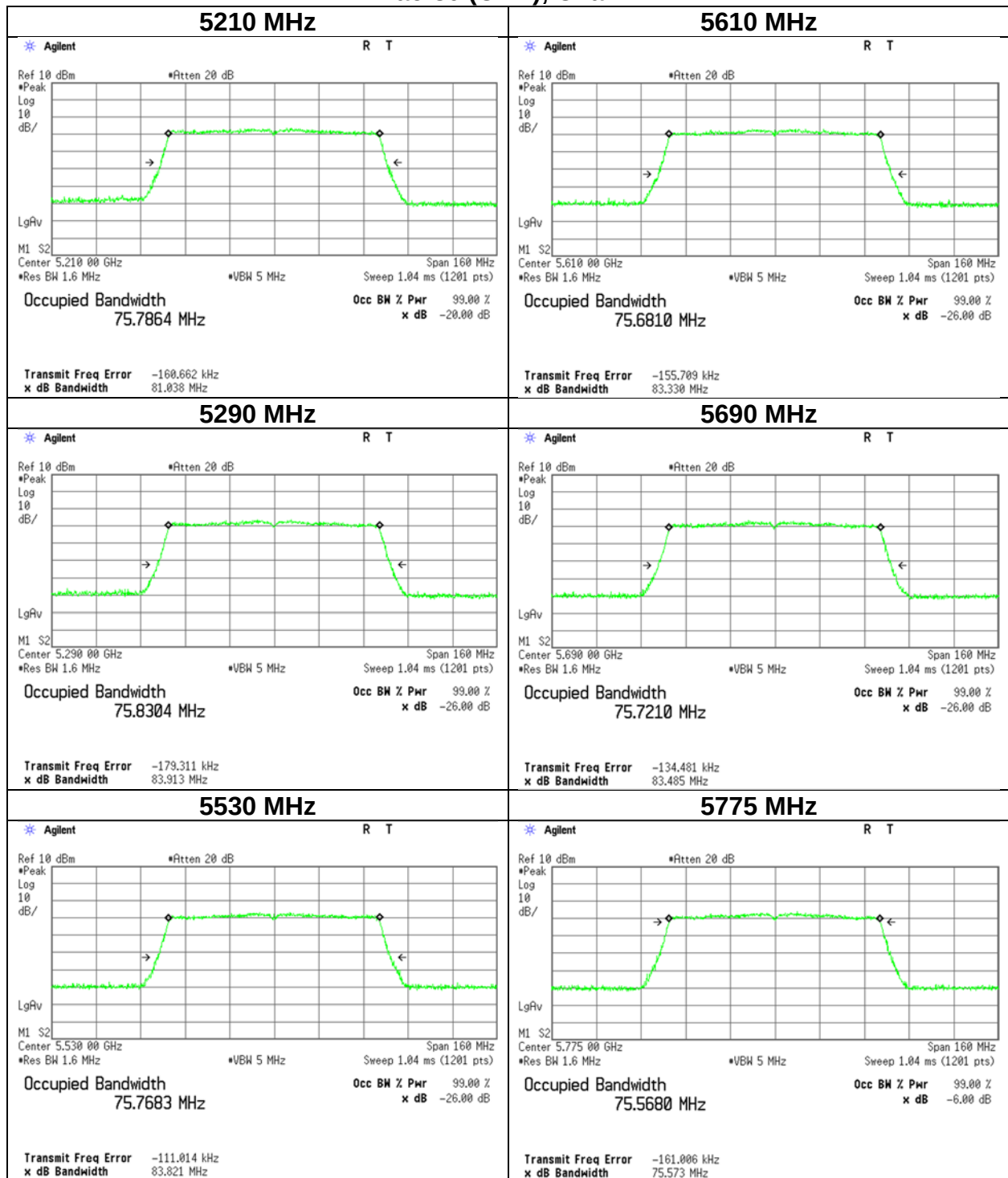
99 % Occupied Bandwidth

11ac-40 (CDD), Chain 2



99 % Occupied Bandwidth

11ac-80 (CDD), Chain 2



6 dB Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.1 Wireless Shielded Room
January 31, 2024
21 deg. C / 23 % RH
Kouki Yamada
Tx

11a (SISO)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5745	15.995
	5785	15.689
	5825	15.720

11n-20 (SISO)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5745	16.516
	5785	15.495
	5825	15.965

11ac-20 (SISO)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5745	15.360
	5785	15.731
	5825	15.841

11n-40 (SISO)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5755	36.337
	5795	36.016

11ac-40 (SISO)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5755	35.440
	5795	35.453

11ac-80 (SISO)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5775	76.534

6 dB Bandwidth

Test place	Shonan EMC Lab. No.1 Wireless Shielded Room		
Date	January 31, 2024	February 1, 2024	February 2, 2024
Temperature / Humidity	21 deg. C / 23 % RH	23 deg. C / 29 % RH	20 deg. C / 22 % RH
Engineer	Kouki Yamada	Kouki Yamada	Kouki Yamada
Mode	Tx		

11a (CDD)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5745	15.718
	5785	15.401
	5825	15.742

11n-20 (CDD)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5745	17.567
	5785	17.433
	5825	17.176

11ac-20 (CDD)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5745	17.304
	5785	17.359
	5825	17.251

11n-40 (CDD)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5755	35.281
	5795	35.447

11ac-40 (CDD)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5755	35.268
	5795	35.833

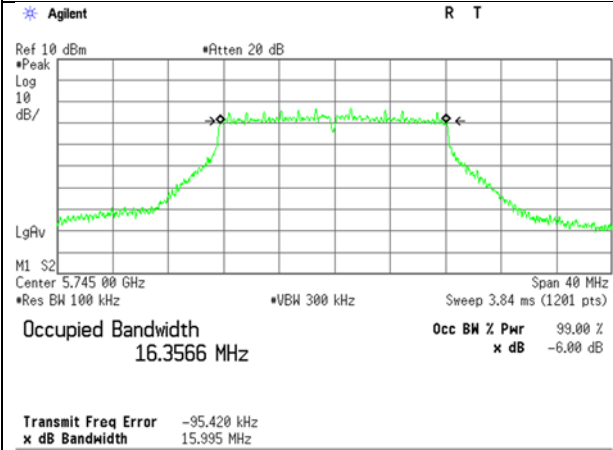
11ac-80 (CDD)

Antenna	Tested Frequency [MHz]	6 dB Emission Bandwidth [MHz]
Chain 2	5775	75.333

6 dB Bandwidth

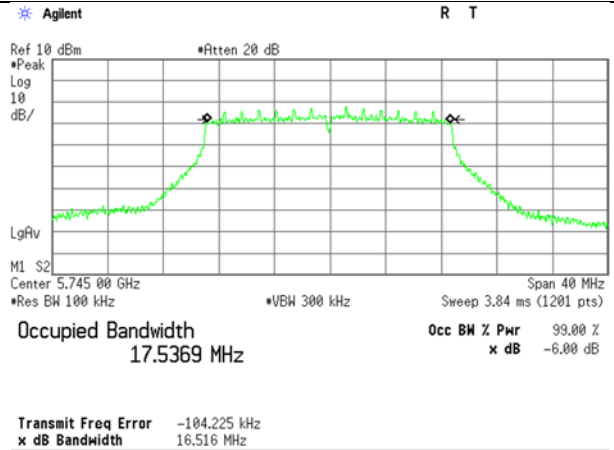
11a (SISO), Chain 2

5745 MHz

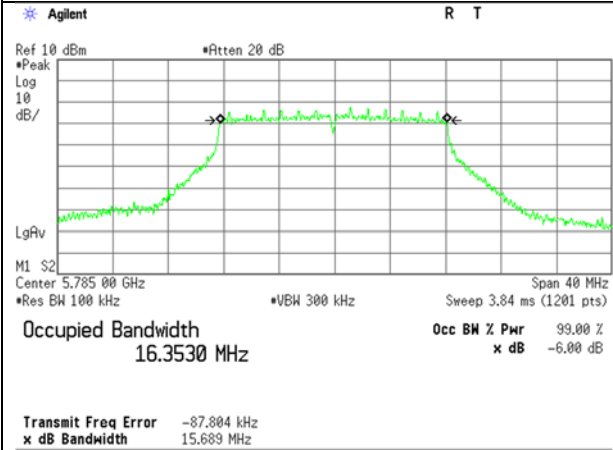


11n-20 (SISO), Chain 2

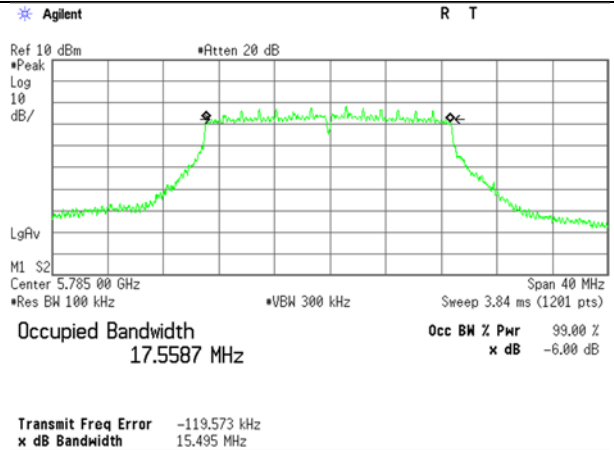
5745 MHz



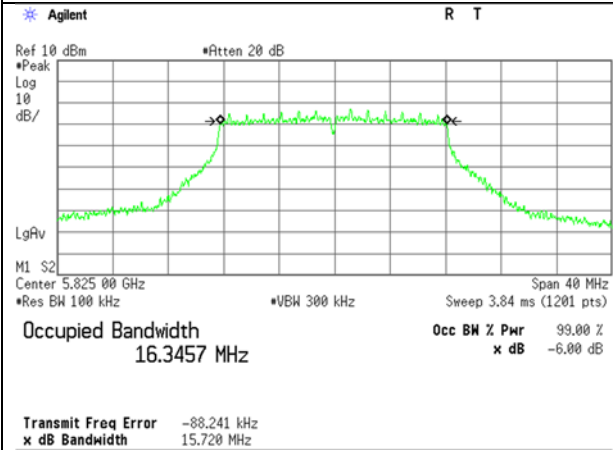
5785 MHz



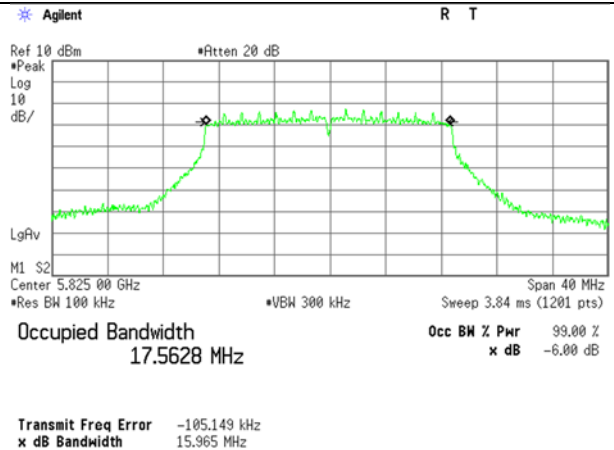
5785 MHz



5825 MHz



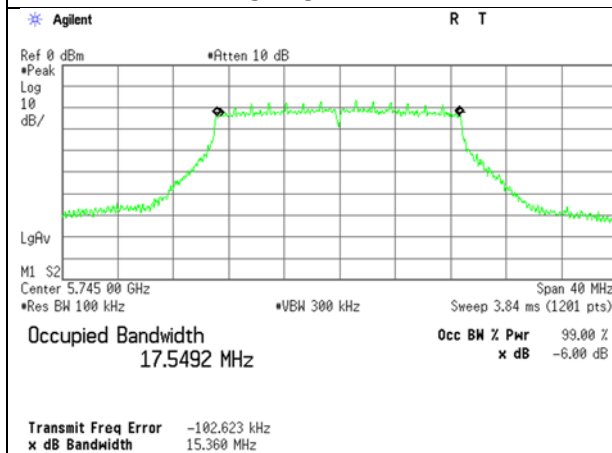
5825 MHz



6 dB Bandwidth

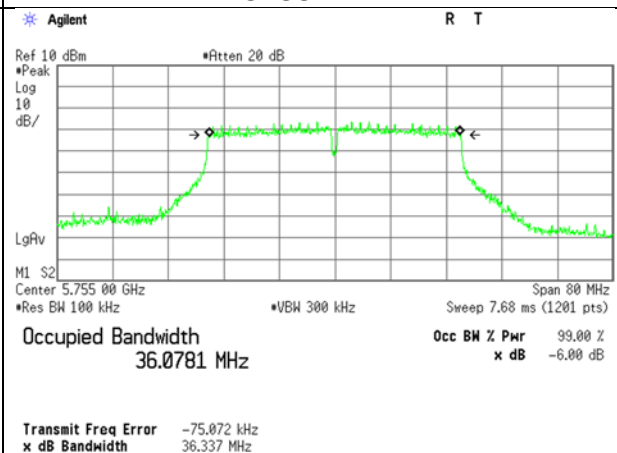
11ac-20 (SISO), Chain 2

5745 MHz

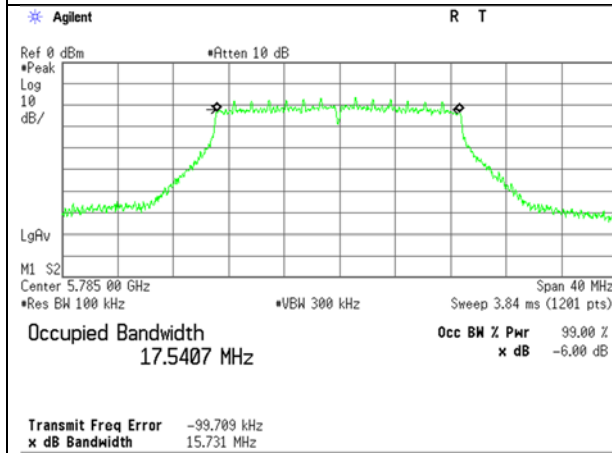


11n-40 (SISO), Chain 2

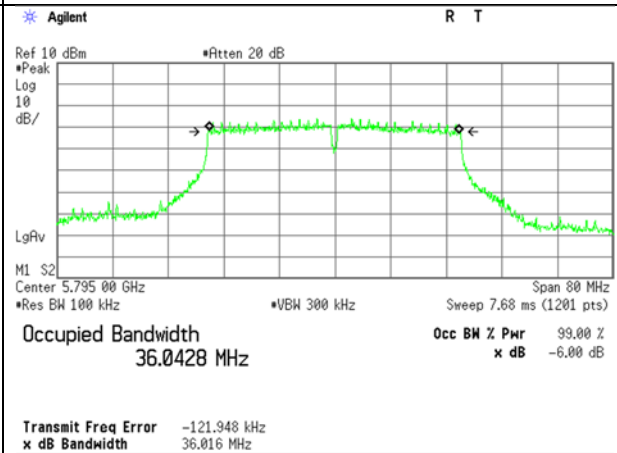
5755 MHz



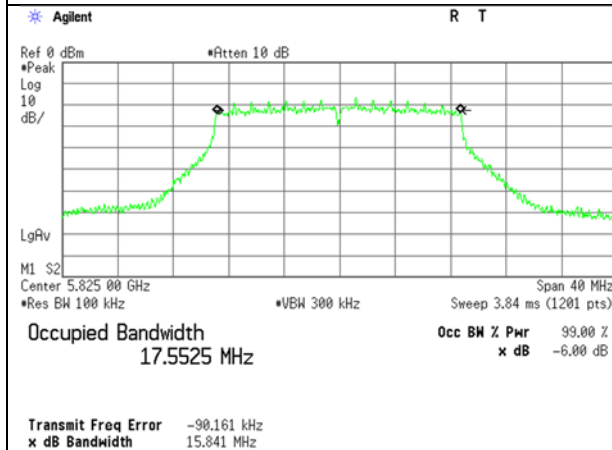
5785 MHz



5795 MHz



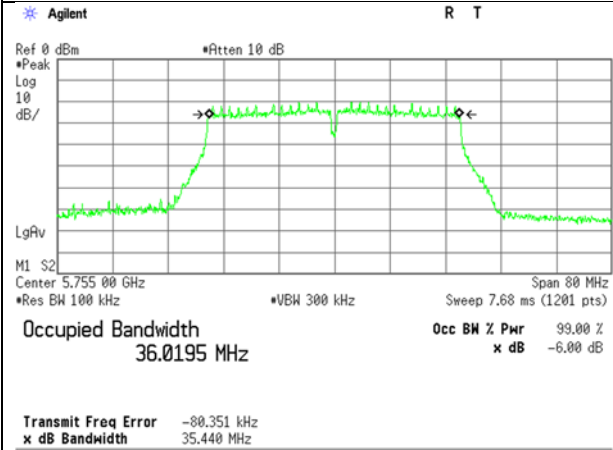
5825 MHz



6 dB Bandwidth

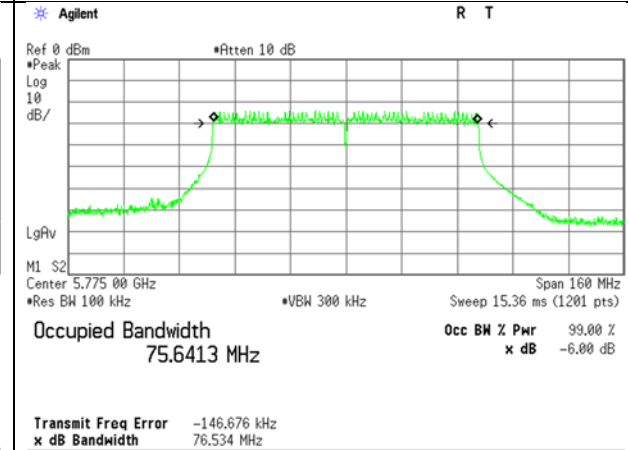
11ac-40 (SISO), Chain 2

5755 MHz

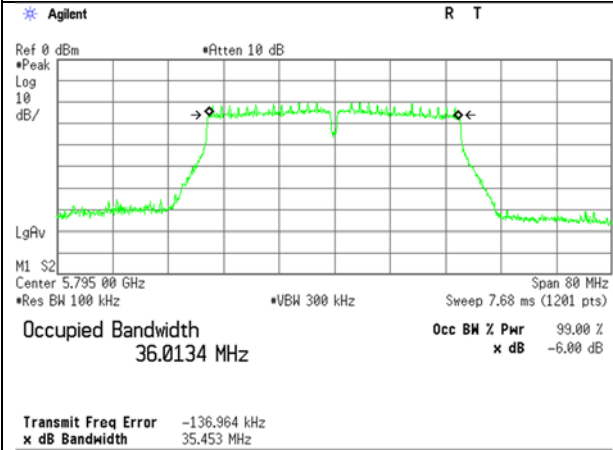


11ac-80 (SISO), Chain 2

5775 MHz



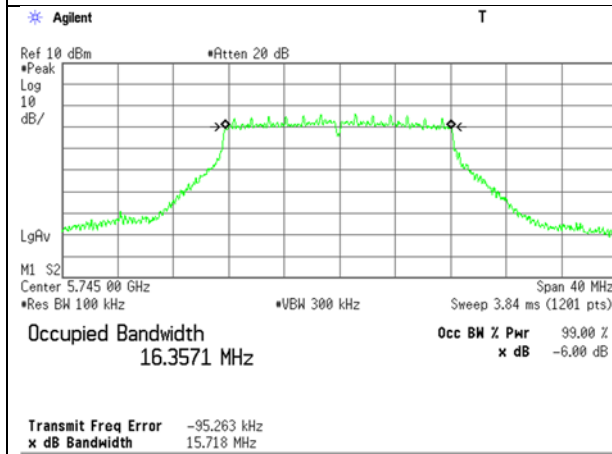
5795 MHz



6 dB Bandwidth

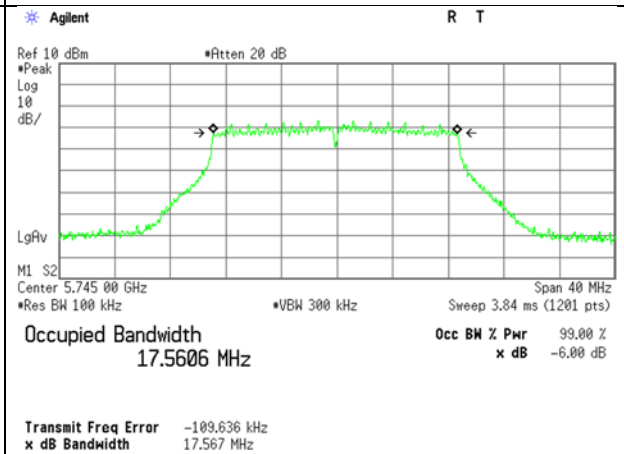
11a (CDD), Chain 2

5745 MHz

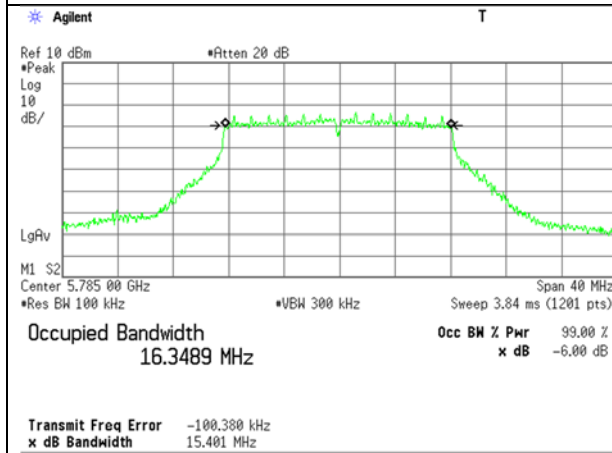


11n-20 (CDD), Chain 2

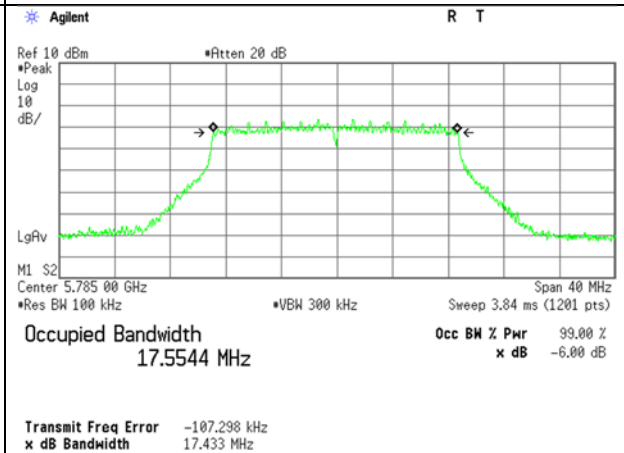
5745 MHz



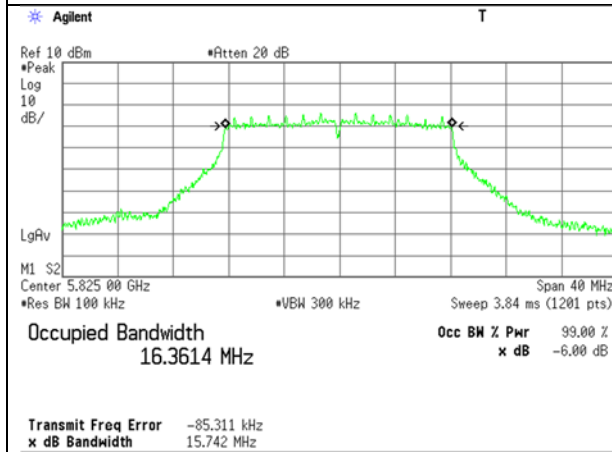
5785 MHz



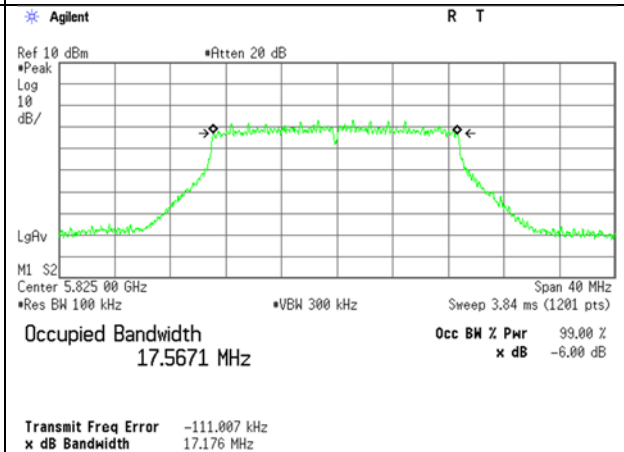
5785 MHz



5825 MHz



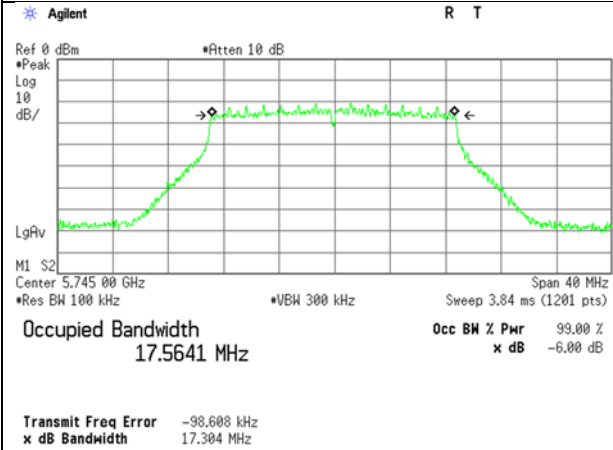
5825 MHz



6 dB Bandwidth

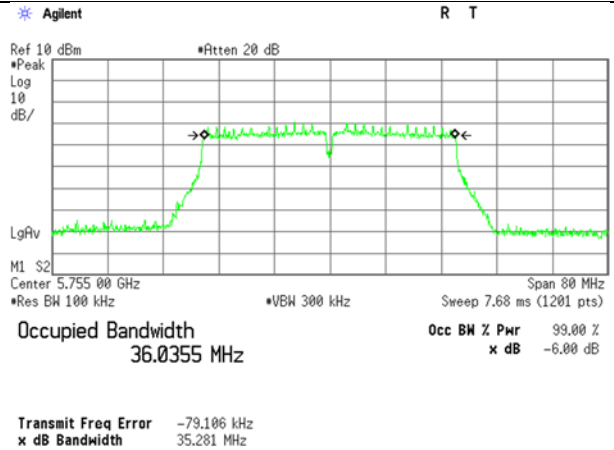
11ac-20 (CDD), Chain 2

5745 MHz

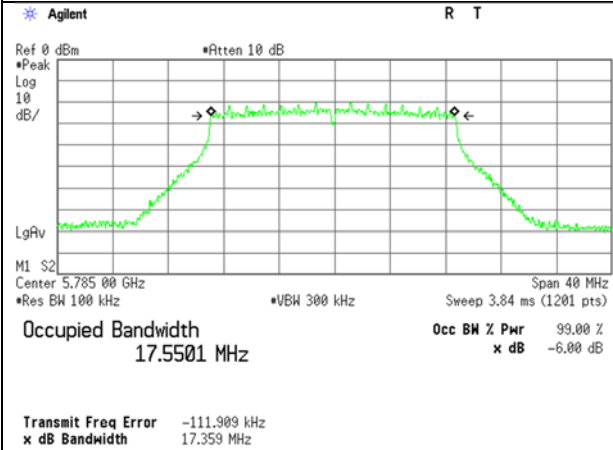


11n-40 (CDD), Chain 2

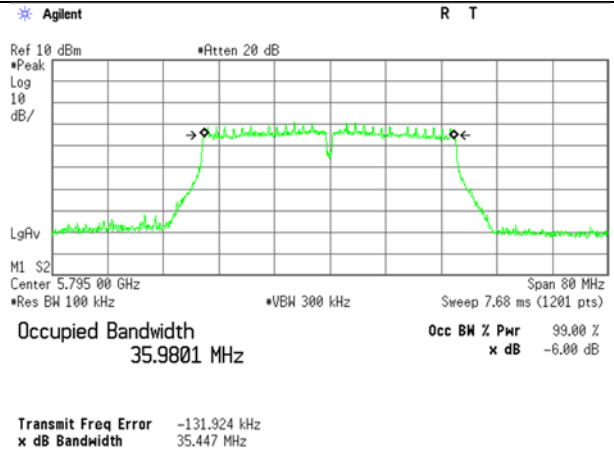
5755 MHz



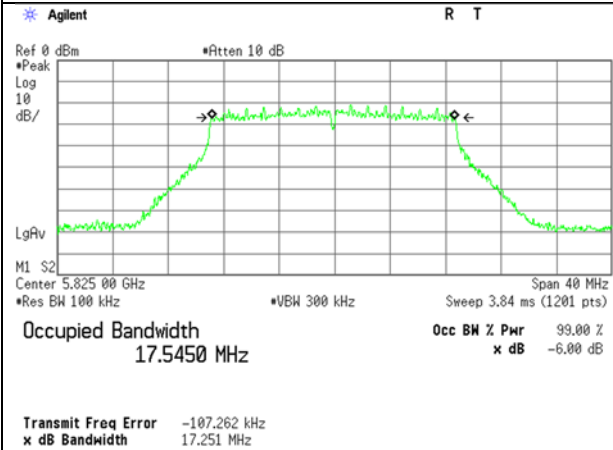
5785 MHz



5795 MHz

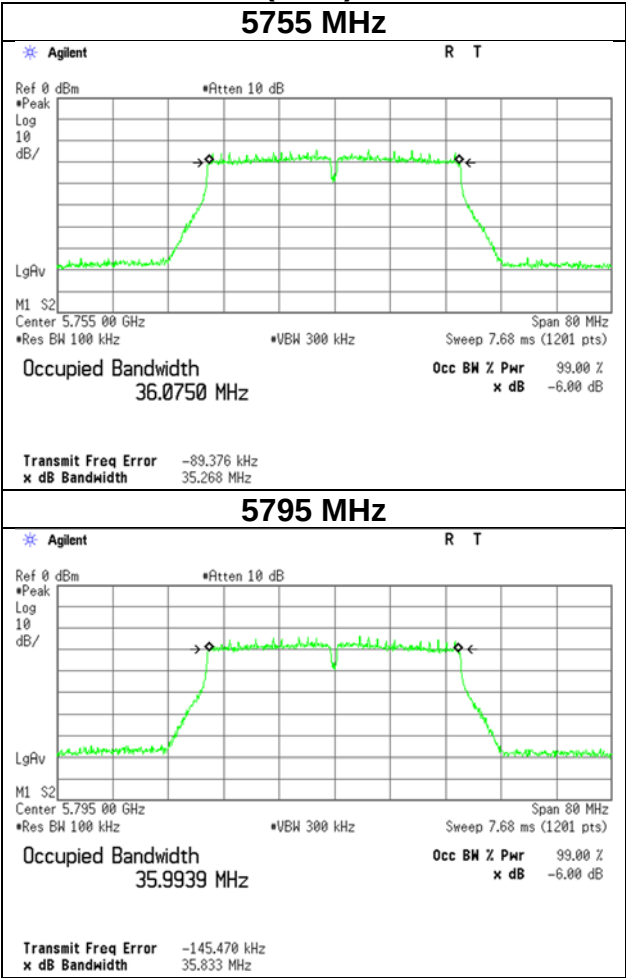


5825 MHz

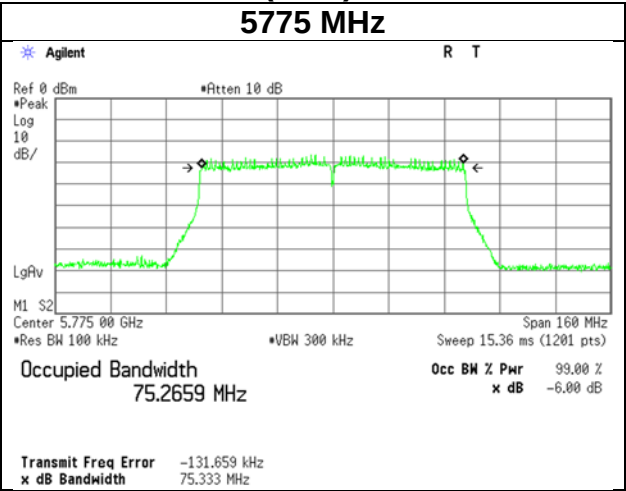


6 dB Bandwidth

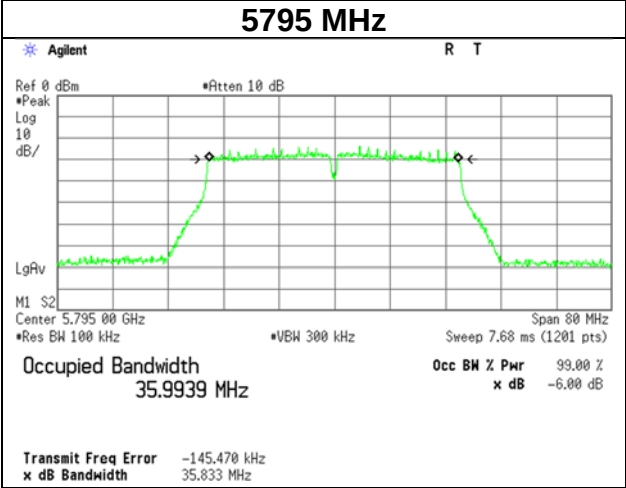
11ac-40 (CDD), Chain 2
5755 MHz



11ac-80 (CDD), Chain 2
5775 MHz



5795 MHz



Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11a (SISO)

11a (SISO) (*)										Applied limit: 15.407, mobile and portable client device					
Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	26 dB EBW (B for FCC) [MHz]	99 % OBW (B for ISSED) [MHz]	Conducted Power				e.i.r.p.			
								Result	Limit	Margin		Result	Limit	Margin	
								[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-0.81	1.60	9.98	0.00	2.29	-	16.675	10.77	11.94	23.97	13.20	13.06	20.23	29.97	16.91
5220	-1.00	1.61	9.98	0.00	2.29	-	16.631	10.59	11.46	23.97	13.38	12.88	19.41	29.97	17.09
5240	-1.30	1.57	9.98	0.00	2.29	-	16.661	10.25	10.59	23.97	13.72	12.54	17.95	29.97	17.43
5260	-1.60	1.58	9.98	0.00	2.29	19.854	16.645	9.96	9.91	23.97	14.01	12.25	16.79	29.97	17.72
5300	-1.63	1.58	9.98	0.00	2.29	19.334	16.648	9.93	9.84	23.86	13.93	12.22	16.67	29.97	17.75
5320	-1.72	1.62	9.98	0.00	2.29	19.683	16.649	9.88	9.73	23.94	14.06	12.17	16.48	29.97	17.80
5500	-2.24	1.70	9.98	0.00	2.29	19.684	16.652	9.44	8.79	23.94	14.50	11.73	14.89	29.97	18.24
5580	-2.31	1.70	9.98	0.00	2.29	19.628	16.656	9.37	8.65	23.92	14.55	11.66	14.66	29.97	18.31
5700	-1.92	1.59	9.98	0.00	2.29	19.552	16.633	9.65	9.23	23.91	14.26	11.94	15.63	29.97	18.03
5720	-2.13	1.60	9.98	0.00	2.29	19.475	16.640	9.45	8.81	23.89	14.44	11.74	14.93	29.97	18.23
5745	-1.68	1.58	9.99	0.00	2.29	-	16.620	9.89	9.75	30.00	20.11	12.18	16.52	36.00	23.82
5785	-1.51	1.58	9.99	0.00	2.29	-	16.608	10.06	10.14	30.00	19.94	12.35	17.18	36.00	23.65
5825	-1.71	1.57	9.99	0.00	2.29	-	16.652	9.85	9.66	30.00	20.15	12.14	16.37	36.00	23.86

Sample Calculation:
Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain (*) Power was measured with using the gate function of power meter.
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11n-20 (SISO)

11n-20 (SISO)

(*)

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	26 dB EBW (B for FCC) [MHz]	99 % OBW (B for ISSED) [MHz]	Conducted Power				e.i.r.p.			
								Result	Limit	Margin		Result	Limit	Margin	
								[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-1.12	1.60	9.98	0.00	2.29	-	17.757	10.46	11.12	23.97	13.51	12.75	18.84	29.97	17.22
5220	-1.32	1.61	9.98	0.00	2.29	-	17.776	10.27	10.64	23.97	13.70	12.56	18.03	29.97	17.41
5240	-1.63	1.57	9.98	0.00	2.29	-	17.738	9.92	9.82	23.97	14.05	12.21	16.63	29.97	17.76
5260	-1.84	1.58	9.98	0.00	2.29	20.125	17.811	9.72	9.38	23.97	14.25	12.01	15.89	29.97	17.96
5300	-1.92	1.58	9.98	0.00	2.29	20.100	17.738	9.64	9.20	23.97	14.33	11.93	15.60	29.97	18.04
5320	-1.98	1.62	9.98	0.00	2.29	20.128	17.767	9.62	9.16	23.97	14.35	11.91	15.52	29.97	18.06
5500	-2.33	1.70	9.98	0.00	2.29	20.359	17.737	9.35	8.61	23.97	14.62	11.64	14.59	29.97	18.33
5580	-2.50	1.70	9.98	0.00	2.29	20.010	17.787	9.18	8.28	23.97	14.79	11.47	14.03	29.97	18.50
5700	-2.15	1.59	9.98	0.00	2.29	20.199	17.759	9.42	8.75	23.97	14.55	11.71	14.83	29.97	18.26
5720	-2.36	1.60	9.98	0.00	2.29	20.195	17.763	9.22	8.36	23.97	14.75	11.51	14.16	29.97	18.46
5745	-1.96	1.58	9.99	0.00	2.29	-	17.797	9.61	9.14	30.00	20.39	11.90	15.49	36.00	24.10
5785	-1.78	1.58	9.99	0.00	2.29	-	17.751	9.79	9.53	30.00	20.21	12.08	16.14	36.00	23.92
5825	-2.00	1.57	9.99	0.00	2.29	-	17.774	9.56	9.04	30.00	20.44	11.85	15.31	36.00	24.15

Sample Calculation:

Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor

e.i.r.p. Result = Conducted Power Result + Antenna Gain

(*) Power was measured with using the gate function of power meter.

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 22, 2024 January 24, 2024
Temperature / Humidity 24 deg. C / 35 % RH 24 deg. C / 35 % RH
Engineer Yuta Shiba Yuta Shiba
Mode Tx 11ac-20 (SISO)

11ac-20 (SISO)								(*)								Applied limit: 15.407, mobile and portable client device							
Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for ISFD)	Conducted Power				e.i.r.p.											
								Result		Limit	Margin	Result		Limit	Margin								
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]								
5180	-6.34	1.60	9.98	0.00	2.29	-	17.786	5.24	3.34	23.97	18.73	7.53	5.66	29.97	22.44								
5220	-6.31	1.61	9.98	0.00	2.29	-	17.775	5.28	3.37	23.97	18.69	7.57	5.71	29.97	22.40								
5240	-6.52	1.57	9.98	0.00	2.29	-	17.783	5.03	3.18	23.97	18.94	7.32	5.40	29.97	22.65								
5260	-6.61	1.58	9.98	0.00	2.29	20.196	17.779	4.95	3.13	23.97	19.02	7.24	5.30	29.97	22.73								
5300	-6.80	1.58	9.98	0.00	2.29	20.083	17.782	4.76	2.99	23.97	19.21	7.05	5.07	29.97	22.92								
5320	-6.84	1.62	9.98	0.00	2.29	19.932	17.774	4.76	2.99	23.97	19.21	7.05	5.07	29.97	22.92								
5500	-6.63	1.70	9.98	0.00	2.29	19.929	17.765	5.05	3.20	23.97	18.92	7.34	5.42	29.97	22.63								
5580	-6.20	1.70	9.98	0.00	2.29	20.244	17.766	5.48	3.53	23.97	18.49	7.77	5.98	29.97	22.20								
5700	-5.70	1.59	9.98	0.00	2.29	20.182	17.787	5.87	3.86	23.97	18.10	8.16	6.55	29.97	21.81								
5720	-5.99	1.60	9.98	0.00	2.29	20.032	17.763	5.59	3.62	23.97	18.38	7.88	6.14	29.97	22.09								
5745	-5.82	1.58	9.99	0.00	2.29	-	17.786	5.75	3.76	30.00	24.25	8.04	6.37	36.00	27.96								
5785	-5.90	1.58	9.99	0.00	2.29	-	17.786	5.67	3.69	30.00	24.33	7.96	6.25	36.00	28.04								
5825	-5.87	1.57	9.99	0.00	2.29	-	17.766	5.69	3.71	30.00	24.31	7.98	6.28	36.00	28.02								

Sample Calculation:

Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor

e.i.r.p. Result = Conducted Power Result + Antenna Gain

(*) Power was measured with using the gate function of power meter.

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11n-40 (SISO)

11n-40 (SISO)								(*)		Applied limit: 15.407, mobile and portable client device							
Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for ISSED)	Conducted Power				e.i.r.p.					
								Result		Limit	Margin	Result		Limit	Margin		
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]		
5190	-1.23	1.60	9.98	0.00	2.29	-	36.502	10.35	10.84	23.97	13.62	12.64	18.37	29.97	17.33		
5230	-1.62	1.57	9.98	0.00	2.29	-	36.439	9.93	9.84	23.97	14.04	12.22	16.67	29.97	17.75		
5270	-2.04	1.58	9.98	0.00	2.29	42.138	36.461	9.52	8.95	23.97	14.45	11.81	15.17	29.97	18.16		
5310	-1.92	1.62	9.98	0.00	2.29	40.998	36.372	9.68	9.29	23.97	14.29	11.97	15.74	29.97	18.00		
5510	-2.54	1.70	9.98	0.00	2.29	40.696	36.361	9.14	8.20	23.97	14.83	11.43	13.90	29.97	18.54		
5550	-3.09	1.70	9.98	0.00	2.29	40.747	36.386	8.59	7.23	23.97	15.38	10.88	12.25	29.97	19.09		
5670	-2.61	1.59	9.98	0.00	2.29	41.143	36.478	8.96	7.87	23.97	15.01	11.25	13.34	29.97	18.72		
5710	-2.40	1.60	9.98	0.00	2.29	40.958	36.366	9.18	8.28	23.97	14.79	11.47	14.03	29.97	18.50		
5755	-2.23	1.58	9.99	0.00	2.29	-	36.435	9.34	8.59	30.00	20.66	11.63	14.55	36.00	24.37		
5795	-2.06	1.57	9.99	0.00	2.29	-	36.348	9.50	8.91	30.00	20.50	11.79	15.10	36.00	24.21		

Sample Calculation:
Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain (*) Power was measured with using the gate function of power meter.
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11ac-40 (SISO)

11ac-40 (SISO)

(*)

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for ISED)	Conducted Power						e.i.r.p.			
								Result		Limit	Margin	Result		Limit	Margin		
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]		
5190	-5.32	1.60	9.98	0.00	2.29	-	36.492	6.26	4.23	23.97	17.71	8.55	7.16	29.97	21.42		
5230	-5.75	1.57	9.98	0.00	2.29	-	36.354	5.80	3.80	23.97	18.17	8.09	6.44	29.97	21.88		
5270	-6.02	1.58	9.98	0.00	2.29	40.203	36.382	5.54	3.58	23.97	18.43	7.83	6.07	29.97	22.14		
5310	-5.95	1.62	9.98	0.00	2.29	39.909	36.465	5.65	3.67	23.97	18.32	7.94	6.22	29.97	22.03		
5510	-6.65	1.70	9.98	0.00	2.29	40.432	36.441	5.03	3.18	23.97	18.94	7.32	5.40	29.97	22.65		
5550	-7.15	1.70	9.98	0.00	2.29	40.117	36.467	4.53	2.84	23.97	19.44	6.82	4.81	29.97	23.15		
5670	-6.53	1.59	9.98	0.00	2.29	40.160	36.382	5.04	3.19	23.97	18.93	7.33	5.41	29.97	22.64		
5710	-6.40	1.60	9.98	0.00	2.29	40.128	36.408	5.18	3.30	23.97	18.79	7.47	5.58	29.97	22.50		
5755	-6.24	1.58	9.99	0.00	2.29	-	36.452	5.33	3.41	30.00	24.67	7.62	5.78	36.00	28.38		
5795	-6.06	1.57	9.99	0.00	2.29	-	36.457	5.50	3.55	30.00	24.50	7.79	6.01	36.00	28.21		

Sample Calculation:

Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor

e.i.r.p. Result = Conducted Power Result + Antenna Gain

(*) Power was measured with using the gate function of power meter.

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11ac-80 (SISO)

11ac-80 (SISO)								(*)1		Applied limit: 15.407, mobile and portable client device							
Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for ISSED)	Conducted Power				e.i.r.p.					
								Result		Limit	Margin	Result		Limit	Margin		
								[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]		
5210	-5.62	1.60	9.98	0.00	2.29	-	77.455	5.97	3.95	23.97	18.01	8.26	6.69	29.97	21.72		
5290	-6.03	1.62	9.98	0.00	2.29	90.489	77.400	5.57	3.61	23.97	18.40	7.86	6.11	29.97	22.11		
5530	-6.81	1.70	9.98	0.00	2.29	90.319	77.418	4.87	3.07	23.97	19.10	7.16	5.20	29.97	22.81		
5610	-6.84	1.70	9.98	0.00	2.29	90.108	77.298	4.84	3.05	23.97	19.13	7.13	5.16	29.97	22.84		
5690	-6.52	1.60	9.98	0.00	2.29	89.788	77.276	5.06	3.21	23.97	18.91	7.35	5.43	29.97	22.62		
5775	-6.15	1.57	9.99	0.00	2.29	-	77.221	5.41	3.48	30.00	24.59	7.70	5.89	36.00	28.30		

Sample Calculation:
Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor
e.i.r.p. Result = Conducted Power Result + Antenna Gain (*) Power was measured with using the gate function of power meter.
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.1 Wireless Shielded Room
January 25, 2024
21 deg. C / 27 % RH
Yuta Shiba
Tx 11a (CDD)

Chain 1+2

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW [MHz]	99 % OBW [MHz]	Conducted power						e.i.r.p.					
			Chain			Result [dBm]	Limit [dBm]	Margin [dB]	Chain			Result [dBm]	Limit [dBm]	Margin [dB]
			1 [mW]	2 [mW]	Sum [mW]				1 [mW]	2 [mW]	Sum [mW]			
5180	-	16.673	4.27	4.57	8.84	9.46	23.97	14.51	7.96	8.53	16.49	12.17	29.97	17.80
5220	-	16.691	4.16	4.93	9.09	9.59	23.97	14.38	7.76	9.20	16.97	12.30	29.97	17.67
5240	-	16.708	4.12	4.54	8.66	9.38	23.97	14.59	7.69	8.47	16.16	12.09	29.97	17.88
5260	19.480	16.669	3.90	4.47	8.37	9.23	23.89	14.66	7.28	8.34	15.61	11.94	29.97	18.03
5300	19.611	16.726	3.73	4.34	8.07	9.07	23.92	14.85	6.97	8.09	15.06	11.78	29.97	18.19
5320	19.487	16.643	3.85	4.06	7.91	8.98	23.89	14.91	7.19	7.57	14.76	11.69	29.97	18.28
5500	19.566	16.641	4.10	3.61	7.71	8.87	23.91	15.04	7.66	6.73	14.39	11.58	29.97	18.39
5580	19.476	16.655	4.52	3.34	7.86	8.95	23.89	14.94	8.43	6.24	14.67	11.66	29.97	18.31
5700	19.201	16.693	4.99	3.74	8.73	9.41	23.83	14.42	9.31	6.98	16.29	12.12	29.97	17.85
5720	19.530	16.643	4.75	3.64	8.39	9.24	23.90	14.66	8.87	6.79	15.66	11.95	29.97	18.02
5745	-	16.654	5.00	3.96	8.96	9.52	30.00	20.48	9.33	7.40	16.73	12.23	36.00	23.77
5785	-	16.703	4.83	4.18	9.01	9.55	30.00	20.45	9.02	7.80	16.81	12.26	36.00	23.74
5825	-	16.688	4.78	3.94	8.71	9.40	30.00	20.60	8.91	7.35	16.26	12.11	36.00	23.89

(*1)		Chain 1						Chain 2					
Tested Frequency [MHz]	Duty Factor [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain *2) [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain *2) [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-5.21	1.53	9.98	2.71	6.30	9.01	-4.98	1.60	9.98	2.71	6.60	9.31
5220	0.00	-5.33	1.54	9.98	2.71	6.19	8.90	-4.66	1.61	9.98	2.71	6.93	9.64
5240	0.00	-5.49	1.66	9.98	2.71	6.15	8.86	-4.98	1.57	9.98	2.71	6.57	9.28
5260	0.00	-5.64	1.57	9.98	2.71	5.91	8.62	-5.06	1.58	9.98	2.71	6.50	9.21
5300	0.00	-5.84	1.58	9.98	2.71	5.72	8.43	-5.19	1.58	9.98	2.71	6.37	9.08
5320	0.00	-5.85	1.73	9.98	2.71	5.86	8.57	-5.52	1.62	9.98	2.71	6.08	8.79
5500	0.00	-5.53	1.68	9.98	2.71	6.13	8.84	-6.11	1.70	9.98	2.71	5.57	8.28
5580	0.00	-5.12	1.69	9.98	2.71	6.55	9.26	-6.44	1.70	9.98	2.71	5.24	7.95
5700	0.00	-4.59	1.59	9.98	2.71	6.98	9.69	-5.84	1.59	9.98	2.71	5.73	8.44
5720	0.00	-4.80	1.59	9.98	2.71	6.77	9.48	-5.97	1.60	9.98	2.71	5.61	8.32
5745	0.00	-4.59	1.59	9.99	2.71	6.99	9.70	-5.59	1.58	9.99	2.71	5.98	8.69
5785	0.00	-4.75	1.60	9.99	2.71	6.84	9.55	-5.36	1.58	9.99	2.71	6.21	8.92
5825	0.00	-4.80	1.60	9.99	2.71	6.79	9.50	-5.61	1.57	9.99	2.71	5.95	8.66

Sample Calculation:

Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor

(*1) Power was measured with using the gate function of power meter.

*2) Antenna Gain applied the highest gain of the two antennas.

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date February 9, 2024
Temperature / Humidity 23 deg. C / 24 % RH
Engineer Miku Ikudome
Mode Tx 11n-20 (CDD)

Chain 1+2

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW [MHz]	99 % OBW [MHz]	Conducted power						e.i.r.p.					
			Chain		Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	Chain		Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
			1 [mW]	2 [mW]					1 [mW]	2 [mW]				
5180	-	17.760	4.25	4.44	8.68	9.39	23.97	14.58	7.93	8.28	16.20	12.10	29.97	17.87
5220	-	17.761	4.02	4.72	8.74	9.41	23.97	14.56	7.50	8.81	16.31	12.12	29.97	17.85
5240	-	17.733	3.85	4.20	8.05	9.06	23.97	14.91	7.19	7.83	15.03	11.77	29.97	18.20
5260	20.265	17.732	3.72	4.01	7.72	8.88	23.97	15.09	6.93	7.48	14.42	11.59	29.97	18.38
5300	20.443	17.746	3.52	4.18	7.69	8.86	23.97	15.11	6.56	7.80	14.36	11.57	29.97	18.40
5320	20.209	17.726	3.79	3.96	7.76	8.90	23.97	15.07	7.08	7.40	14.48	11.61	29.97	18.36
5500	20.166	17.785	4.01	3.54	7.55	8.78	23.97	15.19	7.48	6.61	14.09	11.49	29.97	18.48
5580	20.126	17.750	4.48	3.58	8.06	9.06	23.97	14.91	8.36	6.68	15.04	11.77	29.97	18.20
5700	20.196	17.738	5.01	3.80	8.81	9.45	23.97	14.52	9.35	7.10	16.45	12.16	29.97	17.81
5720	19.908	17.767	4.71	3.65	8.36	9.22	23.97	14.75	8.79	6.81	15.60	11.93	29.97	18.04
5745	-	17.741	4.93	3.94	8.87	9.48	30.00	20.52	9.20	7.35	16.55	12.19	36.00	23.81
5785	-	17.803	4.66	4.14	8.80	9.44	30.00	20.56	8.69	7.73	16.42	12.15	36.00	23.85
5825	-	17.747	4.63	4.09	8.73	9.41	30.00	20.59	8.65	7.64	16.29	12.12	36.00	23.88

(*1)		Chain 1							Chain 2						
Tested Frequency [MHz]	Duty Factor [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain *2) [dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain *2) [dBi]	Cond. Power [dBm]	e.i.r.p. [dBm]	
5180	0.00	-5.23	1.53	9.98	2.71	6.28	8.99	-5.11	1.60	9.98	2.71	6.47	9.18		
5220	0.00	-5.48	1.54	9.98	2.71	6.04	8.75	-4.85	1.61	9.98	2.71	6.74	9.45		
5240	0.00	-5.78	1.66	9.98	2.71	5.86	8.57	-5.32	1.57	9.98	2.71	6.23	8.94		
5260	0.00	-5.85	1.57	9.98	2.71	5.70	8.41	-5.53	1.58	9.98	2.71	6.03	8.74		
5300	0.00	-6.10	1.58	9.98	2.71	5.46	8.17	-5.35	1.58	9.98	2.71	6.21	8.92		
5320	0.00	-5.92	1.73	9.98	2.71	5.79	8.50	-5.62	1.62	9.98	2.71	5.98	8.69		
5500	0.00	-5.63	1.68	9.98	2.71	6.03	8.74	-6.19	1.70	9.98	2.71	5.49	8.20		
5580	0.00	-5.16	1.69	9.98	2.71	6.51	9.22	-6.14	1.70	9.98	2.71	5.54	8.25		
5700	0.00	-4.57	1.59	9.98	2.71	7.00	9.71	-5.77	1.59	9.98	2.71	5.80	8.51		
5720	0.00	-4.84	1.59	9.98	2.71	6.73	9.44	-5.96	1.60	9.98	2.71	5.62	8.33		
5745	0.00	-4.65	1.59	9.99	2.71	6.93	9.64	-5.62	1.58	9.99	2.71	5.95	8.66		
5785	0.00	-4.91	1.60	9.99	2.71	6.68	9.39	-5.40	1.58	9.99	2.71	6.17	8.88		
5825	0.00	-4.93	1.60	9.99	2.71	6.66	9.37	-5.44	1.57	9.99	2.71	6.12	8.83		

Sample Calculation:

Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor

(*1) Power was measured with using the gate function of power meter.

*2) Antenna Gain applied the highest gain of the two antennas.

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 25, 2024
Temperature / Humidity 21 deg. C / 27 % RH
Engineer Yuta Shiba
Mode Tx 11ac-20 (CDD)

Chain 1+2

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW (B for FCC) [MHz]	99 % OBW (B for ISSED) [MHz]	Conducted power						e.i.r.p.					
			1	2	Sum	Result	Limit	Margin	1	2	Sum	Result	Limit	Margin
			[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	-	17.785	1.74	1.82	3.56	5.51	23.97	18.46	3.25	3.39	6.64	8.22	29.97	21.75
5220	-	17.776	1.70	1.79	3.49	5.43	23.97	18.54	3.17	3.35	6.52	8.14	29.97	21.83
5240	-	17.716	1.67	1.69	3.37	5.27	23.97	18.70	3.12	3.16	6.28	7.98	29.97	21.99
5260	20.374	17.738	1.59	1.63	3.22	5.08	23.97	18.89	2.97	3.04	6.01	7.79	29.97	22.18
5300	20.309	17.800	1.55	1.59	3.14	4.97	23.97	19.00	2.89	2.96	5.86	7.68	29.97	22.29
5320	20.204	17.765	1.54	1.54	3.08	4.89	23.97	19.08	2.88	2.87	5.75	7.60	29.97	22.37
5500	20.299	17.782	1.71	1.37	3.08	4.88	23.97	19.09	3.19	2.55	5.74	7.59	29.97	22.38
5580	20.232	17.808	1.93	1.36	3.29	5.17	23.97	18.80	3.60	2.54	6.13	7.88	29.97	22.09
5700	19.859	17.787	2.09	1.47	3.57	5.52	23.97	18.45	3.91	2.75	6.66	8.23	29.97	21.74
5720	20.137	17.754	1.92	1.38	3.30	5.18	23.97	18.79	3.58	2.58	6.16	7.89	29.97	22.08
5745	-	17.785	2.07	1.57	3.64	5.62	30.00	24.38	3.86	2.94	6.80	8.33	36.00	27.67
5785	-	17.764	2.01	1.65	3.67	5.64	30.00	24.36	3.76	3.08	6.84	8.35	36.00	27.65
5825	-	17.758	1.97	1.52	3.49	5.43	30.00	24.57	3.68	2.83	6.51	8.14	36.00	27.86

(*)		Chain 1						Chain 2					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain *2)	Cond. Power	e.i.r.p.	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain *2)	Cond. Power	e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	0.00	-9.10	1.53	9.98	2.71	2.41	5.12	-8.99	1.60	9.98	2.71	2.59	5.30
5220	0.00	-9.22	1.54	9.98	2.71	2.30	5.01	-9.05	1.61	9.98	2.71	2.54	5.25
5240	0.00	-9.41	1.66	9.98	2.71	2.23	4.94	-9.26	1.57	9.98	2.71	2.29	5.00
5260	0.00	-9.53	1.57	9.98	2.71	2.02	4.73	-9.44	1.58	9.98	2.71	2.12	4.83
5300	0.00	-9.66	1.58	9.98	2.71	1.90	4.61	-9.55	1.58	9.98	2.71	2.01	4.72
5320	0.00	-9.83	1.73	9.98	2.71	1.88	4.59	-9.73	1.62	9.98	2.71	1.87	4.58
5500	0.00	-9.33	1.68	9.98	2.71	2.33	5.04	-10.32	1.70	9.98	2.71	1.36	4.07
5580	0.00	-8.82	1.69	9.98	2.71	2.85	5.56	-10.35	1.70	9.98	2.71	1.33	4.04
5700	0.00	-8.36	1.59	9.98	2.71	3.21	5.92	-9.89	1.59	9.98	2.71	1.68	4.39
5720	0.00	-8.74	1.59	9.98	2.71	2.83	5.54	-10.18	1.60	9.98	2.71	1.40	4.11
5745	0.00	-8.42	1.59	9.99	2.71	3.16	5.87	-9.60	1.58	9.99	2.71	1.97	4.68
5785	0.00	-8.55	1.60	9.99	2.71	3.04	5.75	-9.39	1.58	9.99	2.71	2.18	4.89
5825	0.00	-8.64	1.60	9.99	2.71	2.95	5.66	-9.75	1.57	9.99	2.71	1.81	4.52

Sample Calculation:

Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor

(*) Power was measured with using the gate function of power meter.

*2) Antenna Gain applied the highest gain of the two antennas.

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 24, 2024
Temperature / Humidity 20 deg. C / 20 % RH
Engineer Yuta Shiba
Mode Tx 11n-40 (CDD)

Chain 1+2			Applied limit: 15.407, mobile and portable client device											
Tested Frequency [MHz]	26 dB EBW [MHz]	99 % OBW [MHz]	Conducted power						e.i.r.p.					
			Chain			Result [dBm]	Limit [dBm]	Margin [dB]	Chain			Result [dBm]	Limit [dBm]	Margin [dB]
			1 [mW]	2 [mW]	Sum [mW]				1 [mW]	2 [mW]	Sum [mW]			
5190	-	36.546	3.54	4.04	7.58	8.79	23.97	15.18	6.61	7.53	14.14	11.50	29.97	18.47
5230	-	36.454	3.48	3.73	7.22	8.58	23.97	15.39	6.50	6.97	13.47	11.29	29.97	18.68
5270	40.050	36.441	3.70	3.61	7.31	8.64	23.97	15.33	6.90	6.75	13.65	11.35	29.97	18.62
5310	39.817	36.378	3.30	3.72	7.02	8.46	23.97	15.51	6.17	6.93	13.10	11.17	29.97	18.80
5510	40.342	36.445	3.85	3.10	6.94	8.42	23.97	15.55	7.18	5.78	12.96	11.13	29.97	18.84
5550	39.981	36.412	3.93	2.79	6.72	8.27	23.97	15.70	7.33	5.21	12.54	10.98	29.97	18.99
5670	40.004	36.413	4.46	3.44	7.89	8.97	23.97	15.00	8.32	6.41	14.73	11.68	29.97	18.29
5710	39.687	36.329	4.74	3.44	8.18	9.13	23.97	14.84	8.85	6.41	15.26	11.84	29.97	18.13
5755	-	36.422	4.61	3.68	8.29	9.19	30.00	20.81	8.61	6.87	15.48	11.90	36.00	24.10
5795	-	36.373	4.46	3.85	8.30	9.19	30.00	20.81	8.32	7.18	15.50	11.90	36.00	24.10

(*1)		Chain 1							Chain 2					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain *2)	Result		Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain *2)	Result		
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.	
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	
5190	0.00	-6.02	1.53	9.98	2.71	5.49	8.20	-5.52	1.60	9.98	2.71	6.06	8.77	
5230	0.00	-6.10	1.54	9.98	2.71	5.42	8.13	-5.80	1.54	9.98	2.71	5.72	8.43	
5270	0.00	-5.88	1.58	9.98	2.71	5.68	8.39	-5.98	1.58	9.98	2.71	5.58	8.29	
5310	0.00	-6.37	1.58	9.98	2.71	5.19	7.90	-5.87	1.59	9.98	2.71	5.70	8.41	
5510	0.00	-5.81	1.68	9.98	2.71	5.85	8.56	-6.77	1.70	9.98	2.71	4.91	7.62	
5550	0.00	-5.72	1.68	9.98	2.71	5.94	8.65	-7.22	1.70	9.98	2.71	4.46	7.17	
5670	0.00	-5.11	1.62	9.98	2.71	6.49	9.20	-6.26	1.64	9.98	2.71	5.36	8.07	
5710	0.00	-4.81	1.59	9.98	2.71	6.76	9.47	-6.21	1.59	9.98	2.71	5.36	8.07	
5755	0.00	-4.95	1.60	9.99	2.71	6.64	9.35	-5.91	1.58	9.99	2.71	5.66	8.37	
5795	0.00	-5.10	1.60	9.99	2.71	6.49	9.20	-5.72	1.58	9.99	2.71	5.85	8.56	

Sample Calculation:
Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor
(*1) Power was measured with using the gate function of power meter. (*2) Antenna Gain applied the highest gain of the two antennas.
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower
Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 25, 2024
Temperature / Humidity 21 deg. C / 27 % RH
Engineer Yuta Shiba
Mode Tx 11ac-40 (CDD)

Chain 1+2

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW (B for FCC) [MHz]	99 % OBW (B for ISSED) [MHz]	Conducted power						e.i.r.p.					
			Chain			Result	Limit	Margin	Chain			Result	Limit	Margin
			1 [mW]	2 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]	1 [mW]	2 [mW]	Sum [mW]	[dBm]	[dBm]	[dB]
5190	-	36.508	1.44	1.55	2.99	4.75	23.97	19.22	2.69	2.88	5.58	7.46	29.97	22.51
5230	-	36.335	1.56	1.66	3.22	5.08	23.97	18.89	2.91	3.10	6.02	7.79	29.97	22.18
5270	40.279	36.552	1.49	1.48	2.97	4.73	23.97	19.24	2.78	2.76	5.54	7.44	29.97	22.53
5310	39.975	36.474	1.39	1.49	2.89	4.60	23.97	19.37	2.60	2.79	5.39	7.31	29.97	22.66
5510	40.442	36.528	1.43	1.25	2.68	4.28	23.97	19.69	2.67	2.33	5.00	6.99	29.97	22.98
5550	39.774	36.369	1.61	1.12	2.74	4.37	23.97	19.60	3.01	2.09	5.11	7.08	29.97	22.89
5670	40.305	36.398	1.82	1.32	3.14	4.97	23.97	19.00	3.40	2.46	5.86	7.68	29.97	22.29
5710	40.259	36.416	1.91	1.38	3.29	5.17	23.97	18.80	3.56	2.57	6.13	7.88	29.97	22.09
5755	-	36.424	1.92	1.40	3.33	5.22	30.00	24.78	3.59	2.62	6.21	7.93	36.00	28.07
5795	-	36.398	1.89	1.49	3.38	5.29	30.00	24.71	3.52	2.79	6.31	8.00	36.00	28.00

(*1)		Chain 1						Chain 2					
Tested Frequency [MHz]	Duty Factor [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain *2) [dBi]	Result Cond. Power [dBm]	Result e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain *2) [dBi]	Result Cond. Power [dBm]	Result e.i.r.p. [dBm]
5190	0.00	-9.92	1.53	9.98	2.71	1.59	4.30	-9.69	1.60	9.98	2.71	1.89	4.60
5230	0.00	-9.59	1.54	9.98	2.71	1.93	4.64	-9.31	1.54	9.98	2.71	2.21	4.92
5270	0.00	-9.83	1.58	9.98	2.71	1.73	4.44	-9.86	1.58	9.98	2.71	1.70	4.41
5310	0.00	-10.12	1.58	9.98	2.71	1.44	4.15	-9.83	1.59	9.98	2.71	1.74	4.45
5510	0.00	-10.10	1.68	9.98	2.71	1.56	4.27	-10.72	1.70	9.98	2.71	0.96	3.67
5550	0.00	-9.58	1.68	9.98	2.71	2.08	4.79	-11.18	1.70	9.98	2.71	0.50	3.21
5670	0.00	-9.00	1.62	9.98	2.71	2.60	5.31	-10.42	1.64	9.98	2.71	1.20	3.91
5710	0.00	-8.76	1.59	9.98	2.71	2.81	5.52	-10.18	1.59	9.98	2.71	1.39	4.10
5755	0.00	-8.75	1.60	9.99	2.71	2.84	5.55	-10.10	1.58	9.99	2.71	1.47	4.18
5795	0.00	-8.83	1.60	9.99	2.71	2.76	5.47	-9.83	1.58	9.99	2.71	1.74	4.45

Sample Calculation:

Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor

(*1) Power was measured with using the gate function of power meter.

*2) Antenna Gain applied the highest gain of the two antennas.

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.1 Wireless Shielded Room
January 25, 2024
21 deg. C / 27 % RH
Yuta Shiba
Tx 11ac-80 (CDD)

Chain 1+2

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW (B for FCC) [MHz]	99 % OBW (B for ISED) [MHz]	Conducted power						e.i.r.p.					
			1	Chain 2	Sum	Result	Limit	Margin	1	Chain 2	Sum	Result	Limit	Margin
			[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5210	-	75.786	1.36	1.51	2.87	4.58	23.97	19.39	2.55	2.81	5.36	7.29	29.97	22.68
5290	82.548	75.830	1.38	1.53	2.91	4.64	23.97	19.33	2.58	2.85	5.43	7.35	29.97	22.62
5530	82.044	75.768	1.53	1.23	2.76	4.41	23.97	19.56	2.85	2.30	5.15	7.12	29.97	22.85
5610	82.466	75.681	1.64	1.22	2.87	4.57	23.97	19.40	3.06	2.29	5.35	7.28	29.97	22.69
5690	82.688	75.721	1.87	1.35	3.22	5.07	23.97	18.90	3.49	2.51	6.00	7.78	29.97	22.19
5775	-	75.568	1.84	1.38	3.22	5.08	30.00	24.92	3.44	2.58	6.02	7.79	36.00	28.21

(*1)		Chain 1						Chain 2					
Tested Frequency	Duty Factor	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Cond. Power	Result e.i.r.p.	Power Meter Reading	Cable Loss	Atten. Loss	Antenna Gain	Cond. Power	Result e.i.r.p.
[MHz]	[dB]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	0.00	-10.16	1.53	9.98	2.71	1.35	4.06	-9.81	1.61	9.98	2.71	1.78	4.49
5290	0.00	-10.16	1.58	9.98	2.71	1.40	4.11	-9.72	1.58	9.98	2.71	1.84	4.55
5530	0.00	-9.82	1.68	9.98	2.71	1.84	4.55	-10.77	1.70	9.98	2.71	0.91	3.62
5610	0.00	-9.45	1.62	9.98	2.71	2.15	4.86	-10.74	1.64	9.98	2.71	0.88	3.59
5690	0.00	-8.88	1.62	9.98	2.71	2.72	5.43	-10.33	1.64	9.98	2.71	1.29	4.00
5775	0.00	-8.94	1.60	9.99	2.71	2.65	5.36	-10.16	1.58	9.99	2.71	1.41	4.12

Sample Calculation:

Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor

(*1) Power was measured with using the gate function of power meter.

*2) Antenna Gain applied the highest gain of the two antennas.

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11a (SISO)

5180 MHz

(*1)

	Data rate [Mbps]	P/M (AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty factor [dB]	Result [dBm]	Remarks
Chain 1	6	-2.37	1.53	9.98	0.00	9.14	
	9	-2.35	1.53	9.98	0.00	9.16	
	12	-2.35	1.53	9.98	0.00	9.16	
	18	-1.36	1.53	9.98	0.00	10.15	
	24	-1.48	1.53	9.98	0.00	10.03	
	36	-1.99	1.53	9.98	0.00	9.52	
	48	-2.11	1.53	9.98	0.00	9.40	
	54	-2.04	1.53	9.98	0.00	9.47	
Chain 2	6	-1.73	1.60	9.98	0.00	9.85	Worst
	9	-1.74	1.60	9.98	0.00	9.84	
	12	-1.71	1.60	9.98	0.00	9.87	
	18	-0.81	1.60	9.98	0.00	10.77	
	24	-0.83	1.60	9.98	0.00	10.75	
	36	-1.33	1.60	9.98	0.00	10.25	
	48	-1.35	1.60	9.98	0.00	10.23	
	54	-1.27	1.60	9.98	0.00	10.31	

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor

(*1) Power was measured with using the gate function of power meter.

* All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11n-20 (SISO)

5180 MHz

(*1)

	Mode (MCS)	P/M (AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty factor [dB]	Result [dBm]	Remarks
Chain 1	0	-2.54	1.53	9.98	0.00	8.97	
	1	-2.51	1.53	9.98	0.00	9.00	
	2	-1.68	1.53	9.98	0.00	9.83	
	3	-1.73	1.53	9.98	0.00	9.78	
	4	-2.33	1.53	9.98	0.00	9.18	
	5	-2.25	1.53	9.98	0.00	9.26	
	6	-2.15	1.53	9.98	0.00	9.36	
	7	-2.23	1.53	9.98	0.00	9.28	
Chain 2	0	-2.00	1.60	9.98	0.00	9.58	Worst
	1	-1.97	1.60	9.98	0.00	9.61	
	2	-1.12	1.60	9.98	0.00	10.46	
	3	-1.24	1.60	9.98	0.00	10.34	
	4	-1.65	1.60	9.98	0.00	9.93	
	5	-1.72	1.60	9.98	0.00	9.86	
	6	-1.68	1.60	9.98	0.00	9.90	
	7	-1.71	1.60	9.98	0.00	9.87	

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor

(*1) Power was measured with using the gate function of power meter.

* All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 22, 2024
Temperature / Humidity 24 deg. C / 35 % RH
Engineer Yuta Shiba
Mode Tx 11ac-20 (SISO)

5180 MHz

(*1)

	Mode (MCS)	P/M (AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty factor [dB]	Result [dBm]	Remarks
Chain 1	0	-7.86	1.53	9.98	0.00	3.65	
	1	-7.74	1.53	9.98	0.00	3.77	
	2	-6.89	1.53	9.98	0.00	4.62	
	3	-6.91	1.53	9.98	0.00	4.60	
	4	-6.98	1.53	9.98	0.00	4.53	
	5	-7.42	1.53	9.98	0.00	4.09	
	6	-7.36	1.53	9.98	0.00	4.15	
	7	-7.31	1.53	9.98	0.00	4.20	
	8	-7.35	1.53	9.98	0.00	4.16	
Chain 2	0	-7.25	1.60	9.98	0.00	4.33	Worst
	1	-7.19	1.60	9.98	0.00	4.39	
	2	-6.34	1.60	9.98	0.00	5.24	
	3	-6.44	1.60	9.98	0.00	5.14	
	4	-6.85	1.60	9.98	0.00	4.73	
	5	-6.92	1.60	9.98	0.00	4.66	
	6	-6.89	1.60	9.98	0.00	4.69	
	7	-6.94	1.60	9.98	0.00	4.64	
	8	-6.93	1.60	9.98	0.00	4.65	

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor

(*1) Power was measured with using the gate function of power meter.

* All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11n-40 (SISO)

5190 MHz

(*1)

	Mode (MCS)	P/M (AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty factor [dB]	Result [dBm]	Remarks
Chain 1	0	-2.01	1.60	9.98	0.00	9.57	
	1	-1.93	1.60	9.98	0.00	9.65	
	2	-1.88	1.60	9.98	0.00	9.70	
	3	-1.80	1.60	9.98	0.00	9.78	
	4	-1.81	1.60	9.98	0.00	9.77	
	5	-1.83	1.60	9.98	0.00	9.75	
	6	-1.82	1.60	9.98	0.00	9.76	
	7	-1.81	1.60	9.98	0.00	9.77	
Chain 2	0	-2.03	1.60	9.98	0.00	9.55	Worst
	1	-2.04	1.60	9.98	0.00	9.54	
	2	-1.60	1.60	9.98	0.00	9.98	
	3	-1.23	1.60	9.98	0.00	10.35	
	4	-1.84	1.60	9.98	0.00	9.74	
	5	-1.72	1.60	9.98	0.00	9.86	
	6	-1.78	1.60	9.98	0.00	9.80	
	7	-1.76	1.60	9.98	0.00	9.82	

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
(*1) Power was measured with using the gate function of power meter.
* All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11ac-40 (SISO)

5190 MHz

(*1)

	Mode (MCS)	P/M (AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty factor [dB]	Result [dBm]	Remarks
Chain 1	0	-6.11	1.53	9.98	0.00	5.40	
	1	-6.11	1.53	9.98	0.00	5.40	
	2	-6.05	1.53	9.98	0.00	5.46	
	3	-6.11	1.53	9.98	0.00	5.40	
	4	-6.41	1.53	9.98	0.00	5.10	
	5	-6.35	1.53	9.98	0.00	5.16	
	6	-6.29	1.53	9.98	0.00	5.22	
	7	-6.24	1.53	9.98	0.00	5.27	
	8	-6.34	1.53	9.98	0.00	5.17	
	9	-6.28	1.53	9.98	0.00	5.23	
Chain 2	0	-5.47	1.60	9.98	0.00	6.11	Worst
	1	-5.43	1.60	9.98	0.00	6.15	
	2	-5.32	1.60	9.98	0.00	6.26	
	3	-5.40	1.60	9.98	0.00	6.18	
	4	-5.60	1.60	9.98	0.00	5.98	
	5	-5.64	1.60	9.98	0.00	5.94	
	6	-5.54	1.60	9.98	0.00	6.04	
	7	-5.51	1.60	9.98	0.00	6.07	
	8	-5.62	1.60	9.98	0.00	5.96	
	9	-5.57	1.60	9.98	0.00	6.01	

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor

(*1) Power was measured with using the gate function of power meter.

* All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 30, 2024
Temperature / Humidity 21 deg. C / 26 % RH
Engineer Kouki Yamada
Mode Tx 11ac-80 (SISO)

5210 MHz

(*1)

	Mode (MCS)	P/M (AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty factor [dB]	Result [dBm]	Remarks
Chain 1	0	-6.51	1.53	9.98	0.00	5.00	
	1	-6.59	1.53	9.98	0.00	4.92	
	2	-6.41	1.53	9.98	0.00	5.10	
	3	-6.44	1.53	9.98	0.00	5.07	
	4	-6.40	1.53	9.98	0.00	5.11	
	5	-6.47	1.53	9.98	0.00	5.04	
	6	-6.47	1.53	9.98	0.00	5.04	
	7	-6.48	1.53	9.98	0.00	5.03	
	8	-6.39	1.53	9.98	0.00	5.12	
	9	-6.33	1.53	9.98	0.00	5.18	
Chain 2	0	-5.87	1.61	9.98	0.00	5.72	Worst
	1	-5.95	1.61	9.98	0.00	5.64	
	2	-5.83	1.61	9.98	0.00	5.76	
	3	-5.86	1.61	9.98	0.00	5.73	
	4	-5.82	1.61	9.98	0.00	5.77	
	5	-5.62	1.61	9.98	0.00	5.97	
	6	-5.84	1.61	9.98	0.00	5.75	
	7	-5.83	1.61	9.98	0.00	5.76	
	8	-5.88	1.61	9.98	0.00	5.71	
	9	-5.86	1.61	9.98	0.00	5.73	

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor

(*1) Power was measured with using the gate function of power meter.

* All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 25, 2024
Temperature / Humidity 21 deg. C / 27 % RH
Engineer Yuta Shiba
Mode Tx 11a (CDD)

Worst rate check (5180 MHz)

data rate [Mbps]	Chain 1					Chain 2					Total		Remark
	Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Result Power		
				[dBm]	[mW]				[dBm]	[mW]	[dBm]	[mW]	
6	-6.16	1.53	9.98	5.35	3.43	-5.89	1.60	9.98	5.69	3.71	8.53	7.13	-
9	-6.12	1.53	9.98	5.39	3.46	-5.87	1.60	9.98	5.71	3.72	8.56	7.18	-
12	-6.11	1.53	9.98	5.40	3.47	-5.85	1.60	9.98	5.73	3.74	8.58	7.21	-
18	-5.21	1.53	9.98	6.30	4.27	-4.98	1.60	9.98	6.60	4.57	9.46	8.84	*
24	-5.23	1.53	9.98	6.28	4.25	-5.04	1.60	9.98	6.54	4.51	9.42	8.75	-
36	-5.87	1.53	9.98	5.64	3.66	-5.43	1.60	9.98	6.15	4.12	8.91	7.79	-
48	-5.91	1.53	9.98	5.60	3.63	-5.59	1.60	9.98	5.99	3.97	8.81	7.60	-
54	-5.79	1.53	9.98	5.72	3.73	-5.48	1.60	9.98	6.10	4.07	8.92	7.81	-

*Worst Rate

Sample Calculation:

Each port Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

Total Result = Chain 1 Result + Chain 2 Result

* This measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date February 9, 2024
Temperature / Humidity 23 deg. C / 24 % RH
Engineer Miku Ikudome
Mode Tx 11n-20 (MIMO)

Worst rate check (5180 MHz)

MCS	Chain 1					Chain 2					Total		Remark
	Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Result Power		
				[dBm]	[mW]				[dBm]	[mW]	[dBm]	[mW]	
0	-6.18	1.53	9.98	5.33	3.41	-6.17	1.60	9.98	5.41	3.48	8.38	6.89	-
1	-6.11	1.53	9.98	5.40	3.47	-6.24	1.60	9.98	5.34	3.42	8.38	6.89	-
2	-5.35	1.53	9.98	6.16	4.13	-5.23	1.60	9.98	6.35	4.32	9.27	8.45	-
3	-5.23	1.53	9.98	6.28	4.25	-5.11	1.60	9.98	6.47	4.44	9.39	8.68	*
4	-5.85	1.53	9.98	5.66	3.68	-5.52	1.60	9.98	6.06	4.04	8.87	7.72	-
5	-5.81	1.53	9.98	5.70	3.72	-5.38	1.60	9.98	6.20	4.17	8.97	7.88	-
6	-5.96	1.53	9.98	5.55	3.59	-5.38	1.60	9.98	6.20	4.17	8.90	7.76	-
7	-5.79	1.53	9.98	5.72	3.73	-5.45	1.60	9.98	6.13	4.10	8.94	7.83	-
8	-6.28	1.53	9.98	5.23	3.33	-5.82	1.60	9.98	5.76	3.77	8.51	7.10	-
9	-6.26	1.53	9.98	5.25	3.35	-5.79	1.60	9.98	5.79	3.79	8.54	7.14	-
10	-5.34	1.53	9.98	6.17	4.14	-5.04	1.60	9.98	6.54	4.51	9.37	8.65	-
11	-5.47	1.53	9.98	6.04	4.02	-4.99	1.60	9.98	6.59	4.56	9.33	8.58	-
12	-5.84	1.53	9.98	5.67	3.69	-5.51	1.60	9.98	6.07	4.05	8.88	7.74	-
13	-5.83	1.53	9.98	5.68	3.70	-5.43	1.60	9.98	6.15	4.12	8.93	7.82	-
14	-5.85	1.53	9.98	5.66	3.68	-5.55	1.60	9.98	6.03	4.01	8.86	7.69	-
15	-5.94	1.53	9.98	5.57	3.61	-5.53	1.60	9.98	6.05	4.03	8.83	7.63	-

*Worst Rate

Sample Calculation:

Each port Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

Total Result = Chain 1 Result + Chain 2 Result

* This measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 25, 2024
Temperature / Humidity 21 deg. C / 27 % RH
Engineer Yuta Shiba
Mode Tx 11ac-20 (MIMO)

Worst rate check (5180 MHz)

MCS	Chain 1					Chain 2					Total Result Power		Remark
	Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result				
				[dBm]	[mW]				[dBm]	[mW]			
0 (1SS)	-10.10	1.53	9.98	1.41	1.38	-9.97	1.60	9.98	1.61	1.45	4.52	2.83	-
1 (1SS)	-9.98	1.53	9.98	1.53	1.42	-9.80	1.60	9.98	1.78	1.51	4.67	2.93	-
2 (1SS)	-9.14	1.53	9.98	2.37	1.73	-8.96	1.60	9.98	2.62	1.83	5.51	3.55	-
3 (1SS)	-9.10	1.53	9.98	2.41	1.74	-8.99	1.60	9.98	2.59	1.82	5.51	3.56	*
4 (1SS)	-9.80	1.53	9.98	1.71	1.48	-9.48	1.60	9.98	2.10	1.62	4.92	3.10	-
5 (1SS)	-9.84	1.53	9.98	1.67	1.47	-9.43	1.60	9.98	2.15	1.64	4.93	3.11	-
6 (1SS)	-9.71	1.53	9.98	1.80	1.51	-9.48	1.60	9.98	2.10	1.62	4.96	3.14	-
7 (1SS)	-9.64	1.53	9.98	1.87	1.54	-9.45	1.60	9.98	2.13	1.63	5.01	3.17	-
8 (1SS)	-9.67	1.53	9.98	1.84	1.53	-9.47	1.60	9.98	2.11	1.63	4.99	3.15	-
0 (2SS)	-10.02	1.53	9.98	1.49	1.41	-9.91	1.60	9.98	1.67	1.47	4.59	2.88	-
1 (2SS)	-10.08	1.53	9.98	1.43	1.39	-9.84	1.60	9.98	1.74	1.49	4.60	2.88	-
2 (2SS)	-9.27	1.53	9.98	2.24	1.67	-8.92	1.60	9.98	2.66	1.85	5.47	3.52	-
3 (2SS)	-9.21	1.53	9.98	2.30	1.70	-8.89	1.60	9.98	2.69	1.86	5.51	3.56	-
4 (2SS)	-9.80	1.53	9.98	1.71	1.48	-9.38	1.60	9.98	2.20	1.66	4.97	3.14	-
5 (2SS)	-9.54	1.53	9.98	1.97	1.57	-9.39	1.60	9.98	2.19	1.66	5.09	3.23	-
6 (2SS)	-9.76	1.53	9.98	1.75	1.50	-9.37	1.60	9.98	2.21	1.66	5.00	3.16	-
7 (2SS)	-9.68	1.53	9.98	1.83	1.52	-9.39	1.60	9.98	2.19	1.66	5.02	3.18	-
8 (2SS)	-9.74	1.53	9.98	1.77	1.50	-9.40	1.60	9.98	2.18	1.65	4.99	3.16	-

*Worst Rate

Sample Calculation:

(* SS: Spatial Stream)

Each port Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

Total Result = Chain 1 Result + Chain 2 Result

* This measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 24, 2024
Temperature / Humidity 20 deg. C / 20 % RH
Engineer Yuta Shiba
Mode Tx 11n-40 (MIMO)

Worst rate check (5190 MHz)

MCS	Chain 1					Chian 2					Total		Remark
	Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Result Power		
				[dBm]	[mW]				[dBm]	[mW]	[dBm]	[mW]	
0	-6.10	1.53	9.98	5.41	3.48	-5.46	1.60	9.98	6.12	4.09	8.79	7.57	-
1	-6.19	1.53	9.98	5.32	3.40	-5.59	1.60	9.98	5.99	3.97	8.68	7.38	-
2	-6.02	1.53	9.98	5.49	3.54	-5.52	1.60	9.98	6.06	4.04	8.79	7.58	*
3	-6.18	1.53	9.98	5.33	3.41	-5.49	1.60	9.98	6.09	4.06	8.74	7.48	-
4	-6.23	1.53	9.98	5.28	3.37	-5.69	1.60	9.98	5.89	3.88	8.61	7.25	-
5	-6.27	1.53	9.98	5.24	3.34	-5.66	1.60	9.98	5.92	3.91	8.60	7.25	-
6	-6.33	1.53	9.98	5.18	3.30	-5.69	1.60	9.98	5.89	3.88	8.56	7.18	-
7	-6.24	1.53	9.98	5.27	3.37	-5.71	1.60	9.98	5.87	3.86	8.59	7.23	-
8	-6.16	1.53	9.98	5.35	3.43	-5.48	1.60	9.98	6.10	4.07	8.75	7.50	-
9	-6.16	1.53	9.98	5.35	3.43	-5.63	1.60	9.98	5.95	3.94	8.67	7.36	-
10	-6.12	1.53	9.98	5.39	3.46	-5.57	1.60	9.98	6.01	3.99	8.72	7.45	-
11	-6.05	1.53	9.98	5.46	3.52	-5.66	1.60	9.98	5.92	3.91	8.71	7.42	-
12	-6.27	1.53	9.98	5.24	3.34	-5.60	1.60	9.98	5.98	3.96	8.64	7.30	-
13	-6.21	1.53	9.98	5.30	3.39	-5.70	1.60	9.98	5.88	3.87	8.61	7.26	-
14	-6.33	1.53	9.98	5.18	3.30	-5.67	1.60	9.98	5.91	3.90	8.57	7.20	-
15	-6.41	1.53	9.98	5.10	3.24	-5.71	1.60	9.98	5.87	3.86	8.51	7.10	-

*Worst Rate

Sample Calculation:

Each port Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

Total Result = Chain 1 Result + Chian 2 Result

* This measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 25, 2024
Temperature / Humidity 21 deg. C / 27 % RH
Engineer Yuta Shiba
Mode Tx 11ac-40 (MIMO)

Worst rate check (5190 MHz)

MCS	Chain 1					Chain 2					Total Result Power		Remark
	Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result				
				[dBm]	[mW]				[dBm]	[mW]			
											[dBm]	[mW]	
0 (1SS)	-10.08	1.53	9.98	1.43	1.39	-9.86	1.60	9.98	1.72	1.49	4.59	2.88	-
1 (1SS)	-10.06	1.53	9.98	1.45	1.40	-9.90	1.60	9.98	1.68	1.47	4.58	2.87	-
2 (1SS)	-9.92	1.53	9.98	1.59	1.44	-9.69	1.60	9.98	1.89	1.55	4.75	2.99	*
3 (1SS)	-9.97	1.53	9.98	1.54	1.43	-9.84	1.60	9.98	1.74	1.49	4.65	2.92	-
4 (1SS)	-10.35	1.53	9.98	1.16	1.31	-10.12	1.60	9.98	1.46	1.40	4.32	2.71	-
5 (1SS)	-10.35	1.53	9.98	1.16	1.31	-10.07	1.60	9.98	1.51	1.42	4.35	2.72	-
6 (1SS)	-10.32	1.53	9.98	1.19	1.32	-10.15	1.60	9.98	1.43	1.39	4.32	2.71	-
7 (1SS)	-10.45	1.53	9.98	1.06	1.28	-10.14	1.60	9.98	1.44	1.39	4.26	2.67	-
8 (1SS)	-10.28	1.53	9.98	1.23	1.33	-10.09	1.60	9.98	1.49	1.41	4.37	2.74	-
9 (1SS)	-10.28	1.53	9.98	1.23	1.33	-9.99	1.60	9.98	1.59	1.44	4.42	2.77	-
0 (2SS)	-10.09	1.53	9.98	1.42	1.39	-9.93	1.60	9.98	1.65	1.46	4.55	2.85	-
1 (2SS)	-10.12	1.53	9.98	1.39	1.38	-9.84	1.60	9.98	1.74	1.49	4.58	2.87	-
2 (2SS)	-9.93	1.53	9.98	1.58	1.44	-9.76	1.60	9.98	1.82	1.52	4.71	2.96	-
3 (2SS)	-9.98	1.53	9.98	1.53	1.42	-9.78	1.60	9.98	1.80	1.51	4.68	2.94	-
4 (2SS)	-10.42	1.53	9.98	1.09	1.29	-10.09	1.60	9.98	1.49	1.41	4.30	2.69	-
5 (2SS)	-10.55	1.53	9.98	0.96	1.25	-10.09	1.60	9.98	1.49	1.41	4.24	2.66	-
6 (2SS)	-10.44	1.53	9.98	1.07	1.28	-10.15	1.60	9.98	1.43	1.39	4.26	2.67	-
7 (2SS)	-10.34	1.53	9.98	1.17	1.31	-9.85	1.60	9.98	1.73	1.49	4.47	2.80	-
8 (2SS)	-10.23	1.53	9.98	1.28	1.34	-9.83	1.60	9.98	1.75	1.50	4.53	2.84	-
9 (2SS)	-10.31	1.53	9.98	1.20	1.32	-9.84	1.60	9.98	1.74	1.49	4.49	2.81	-

*Worst Rate

Sample Calculation:

(* SS: Spatial Stream)

Each port Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

Total Result = Chain 1 Result + Chain 2 Result

* This measurement was performed only on the on time using the gate function of power meter.

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.1 Wireless Shielded Room
Date January 25, 2024
Temperature / Humidity 21 deg. C / 27 % RH
Engineer Yuta Shiba
Mode Tx 11ac-80 (MIMO)

Worst rate check (5210 MHz)

MCS	Chain 1					Chain 2					Total		Remark
	Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Reading (Average) [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Result Power		
				[dBm]	[mW]				[dBm]	[mW]	[dBm]	[mW]	
0 (1SS)	-10.45	1.53	9.98	1.06	1.28	-10.06	1.60	9.98	1.52	1.42	4.31	2.70	-
1 (1SS)	-10.42	1.53	9.98	1.09	1.29	-10.02	1.60	9.98	1.56	1.43	4.34	2.72	-
2 (1SS)	-10.16	1.53	9.98	1.35	1.36	-9.81	1.60	9.98	1.77	1.50	4.58	2.87	*
3 (1SS)	-10.36	1.53	9.98	1.15	1.30	-9.82	1.60	9.98	1.76	1.50	4.48	2.80	-
4 (1SS)	-10.31	1.53	9.98	1.20	1.32	-9.99	1.60	9.98	1.59	1.44	4.41	2.76	-
5 (1SS)	-10.23	1.53	9.98	1.28	1.34	-9.92	1.60	9.98	1.66	1.47	4.48	2.81	-
6 (1SS)	-10.34	1.53	9.98	1.17	1.31	-9.87	1.60	9.98	1.71	1.48	4.46	2.79	-
7 (1SS)	-10.33	1.53	9.98	1.18	1.31	-9.82	1.60	9.98	1.76	1.50	4.49	2.81	-
8 (1SS)	-10.23	1.53	9.98	1.28	1.34	-9.81	1.60	9.98	1.77	1.50	4.54	2.85	-
9 (1SS)	-10.35	1.53	9.98	1.16	1.31	-9.87	1.60	9.98	1.71	1.48	4.45	2.79	-
0 (2SS)	-10.42	1.53	9.98	1.09	1.29	-10.01	1.60	9.98	1.57	1.44	4.35	2.72	-
1 (2SS)	-10.38	1.53	9.98	1.13	1.30	-9.99	1.60	9.98	1.59	1.44	4.38	2.74	-
2 (2SS)	-10.22	1.53	9.98	1.29	1.35	-9.79	1.60	9.98	1.79	1.51	4.56	2.86	-
3 (2SS)	-10.23	1.53	9.98	1.28	1.34	-9.78	1.60	9.98	1.80	1.51	4.56	2.86	-
4 (2SS)	-10.33	1.53	9.98	1.18	1.31	-9.82	1.60	9.98	1.76	1.50	4.49	2.81	-
5 (2SS)	-10.19	1.53	9.98	1.32	1.36	-9.94	1.60	9.98	1.64	1.46	4.49	2.81	-
6 (2SS)	-10.31	1.53	9.98	1.20	1.32	-9.92	1.60	9.98	1.66	1.47	4.45	2.78	-
7 (2SS)	-10.28	1.53	9.98	1.23	1.33	-9.90	1.60	9.98	1.68	1.47	4.47	2.80	-
8 (2SS)	-10.19	1.53	9.98	1.32	1.36	-9.79	1.60	9.98	1.79	1.51	4.57	2.87	-
9 (2SS)	-10.27	1.53	9.98	1.24	1.33	-9.89	1.60	9.98	1.69	1.48	4.48	2.81	-

*Worst Rate

Sample Calculation:

(* SS: Spatial Stream)

Each port Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

Total Result = Chain 1 Result + Chain 2 Result

* This measurement was performed only on the on time using the gate function of power meter.

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.2 Measurement Room
Date February 14, 2024
Temperature / Humidity 23 deg. C / 27 % RH
Engineer Kenichi Adachi
Mode Tx 11a (SISO)

Chain 2

(*1)

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Frequency [MHz]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
								Result	Limit	Margin	Result	Limit	Margin
5180	5181.127	-12.13	1.60	9.98	0.00	2.29	0.00	-0.55	11.00	11.55	1.74	17.00	15.26
5220	5221.062	-12.52	1.61	9.98	0.00	2.29	0.00	-0.93	11.00	11.93	1.37	17.00	15.64
5240	5240.650	-12.15	1.57	9.98	0.00	2.29	0.00	-0.60	11.00	11.60	1.69	17.00	15.31
5260	5260.758	-12.92	1.58	9.98	0.00	2.29	0.00	-1.36	11.00	12.36	0.93	17.00	16.07
5300	5301.495	-12.79	1.58	9.98	0.00	2.29	0.00	-1.23	11.00	12.23	1.06	17.00	15.94
5320	5320.910	-12.99	1.62	9.98	0.00	2.29	0.00	-1.39	11.00	12.39	0.90	17.00	16.10
5500	5500.693	-13.17	1.70	9.98	0.00	2.29	0.00	-1.49	11.00	12.49	0.80	17.00	16.20
5580	5580.975	-13.89	1.70	9.98	0.00	2.29	0.00	-2.21	11.00	13.21	0.08	17.00	16.92
5700	5700.737	-13.42	1.59	9.98	0.00	2.29	0.00	-1.85	11.00	12.85	0.44	17.00	16.56
5720	5720.975	-13.39	1.60	9.98	0.00	2.29	0.00	-1.81	11.00	12.81	0.48	17.00	16.52
5745	5744.393	-16.11	1.58	9.99	0.00	2.29	0.27	-4.27	30.00	34.27	-1.98	36.00	37.98
5785	5786.148	-15.77	1.58	9.99	0.00	2.29	0.27	-3.94	30.00	33.94	-1.65	36.00	37.65
5825	5825.758	-15.76	1.57	9.99	0.00	2.29	0.27	-3.93	30.00	33.93	-1.64	36.00	37.64

Sample Calculation:

PSD: Power Spectral Density

(*1) Power density was measured with using the gate function of spectrum analyzer.

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log$ (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Correction Factor

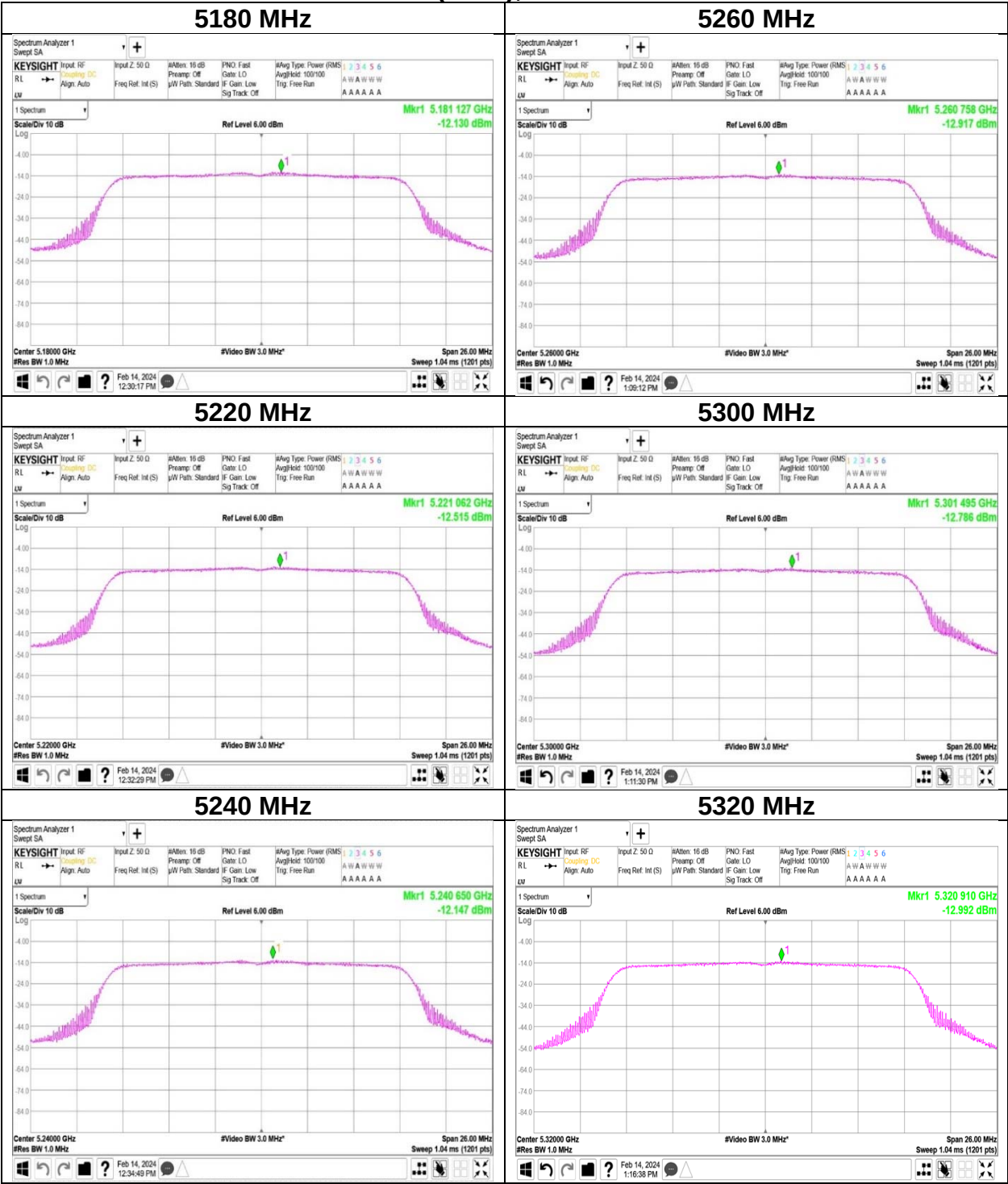
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.2 Measurement Room
February 14, 2024
23 deg. C / 27 % RH
Kenichi Adachi
Tx 11a (SISO)

11a (SISO), Chain 2

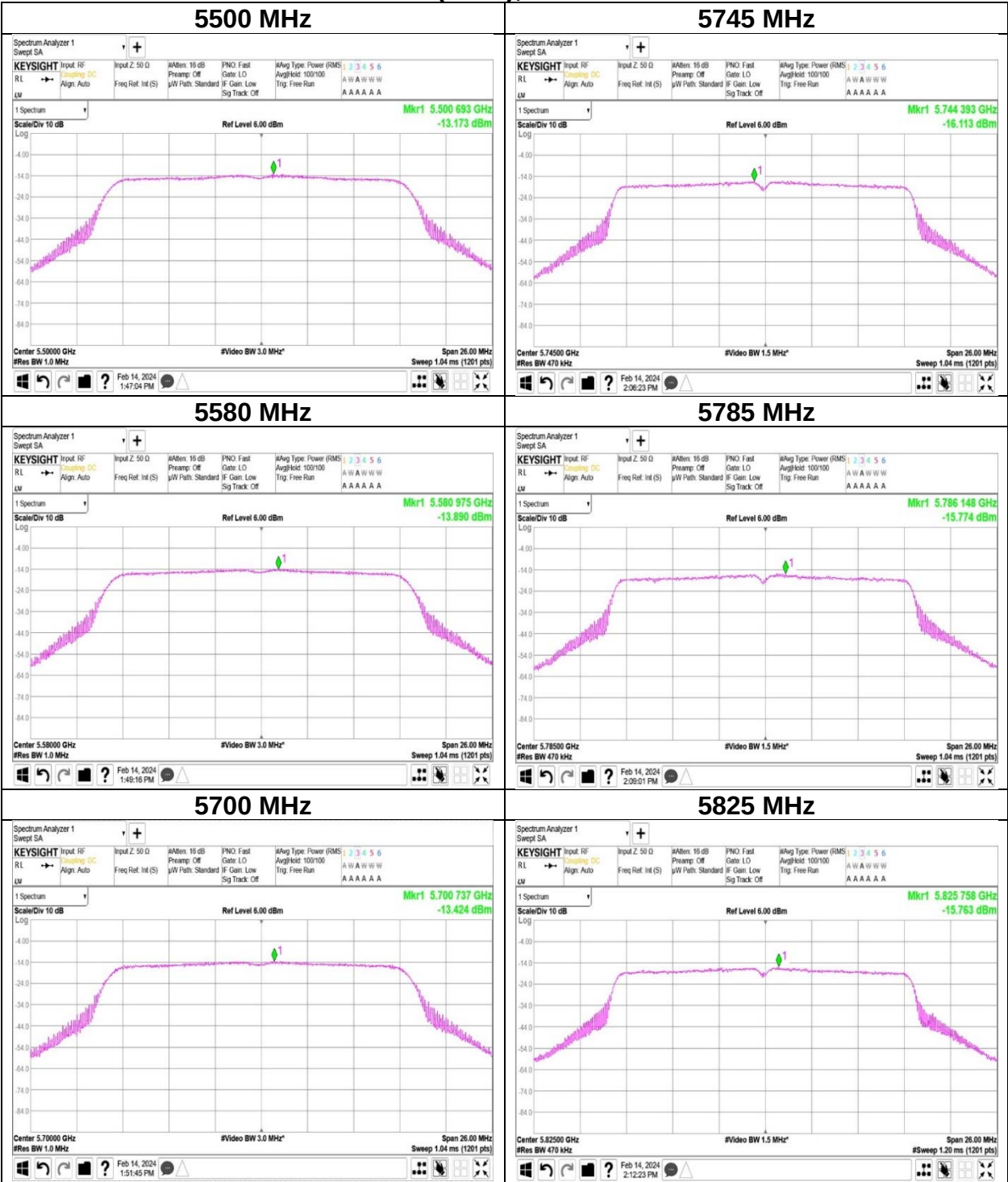


Maximum Power Spectral Density

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.2 Measurement Room
February 14, 2024
23 deg. C / 27 % RH
Kenichi Adachi
Tx 11a (SISO)

11a (SISO), Chain 2



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.2 Measurement Room
Date February 14, 2024
Temperature / Humidity 23 deg. C / 27 % RH
Engineer Kenichi Adachi
Mode Tx 11n-20 (SISO)

Chain 2 (*1) Applied limit: 15.407, mobile and portable client device

Tested Frequency	PSD Frequency	PSD Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	RBW Correction Factor	PSD (Conducted)			PSD (e.i.r.p.)		
[MHz]	[MHz]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBi]	[dB]	Result	Limit	Margin	Result	Limit	Margin
5180	5178.938	-12.64	1.60	9.98	0.00	2.29	0.00	-1.06	11.00	12.06	1.23	17.00	15.77
5220	5219.003	-12.89	1.61	9.98	0.00	2.29	0.00	-1.30	11.00	12.30	0.99	17.00	16.01
5240	5240.953	-13.35	1.57	9.98	0.00	2.29	0.00	-1.80	11.00	12.80	0.49	17.00	16.51
5260	5260.932	-13.49	1.58	9.98	0.00	2.29	0.00	-1.93	11.00	12.93	0.36	17.00	16.64
5300	5301.235	-13.81	1.58	9.98	0.00	2.29	0.00	-2.25	11.00	13.25	0.04	17.00	16.96
5320	5318.895	-13.75	1.62	9.98	0.00	2.29	0.00	-2.15	11.00	13.15	0.14	17.00	16.86
5500	5501.040	-13.79	1.70	9.98	0.00	2.29	0.00	-2.11	11.00	13.11	0.18	17.00	16.82
5580	5581.517	-14.20	1.70	9.98	0.00	2.29	0.00	-2.52	11.00	13.52	-0.23	17.00	17.23
5700	5701.105	-13.93	1.59	9.98	0.00	2.29	0.00	-2.36	11.00	13.36	-0.07	17.00	17.07
5720	5720.715	-13.96	1.60	9.98	0.00	2.29	0.00	-2.38	11.00	13.38	-0.09	17.00	17.09
5745	5746.885	-16.60	1.58	9.99	0.00	2.29	0.27	-4.76	30.00	34.76	-2.47	36.00	38.47
5785	5785.433	-16.32	1.58	9.99	0.00	2.29	0.27	-4.48	30.00	34.48	-2.19	36.00	38.19
5825	5825.520	-16.00	1.57	9.99	0.00	2.29	0.27	-4.17	30.00	34.17	-1.88	36.00	37.88

Sample Calculation:

PSD: Power Spectral Density

(*1) Power density was measured with using the gate function of spectrum analyzer.

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log (\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Test place

Date

Temperature / Humidity

Engineer

Mode

Shonan EMC Lab. No.2 Measurement Room

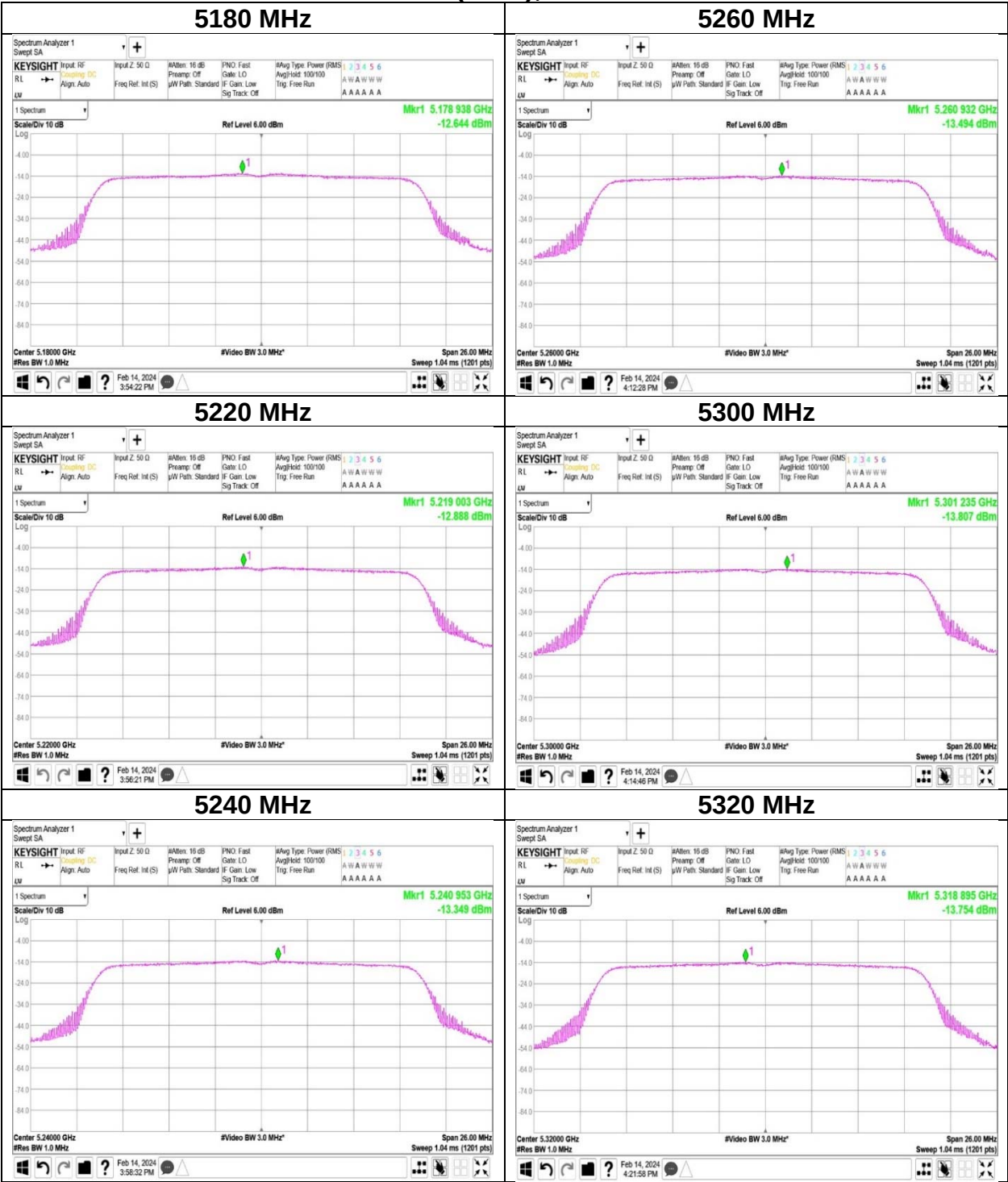
February 14, 2024

23 deg. C / 27 % RH

Kenichi Adachi

Tx 11n-20 (SISO)

11n-20 (SISO), Chain 2

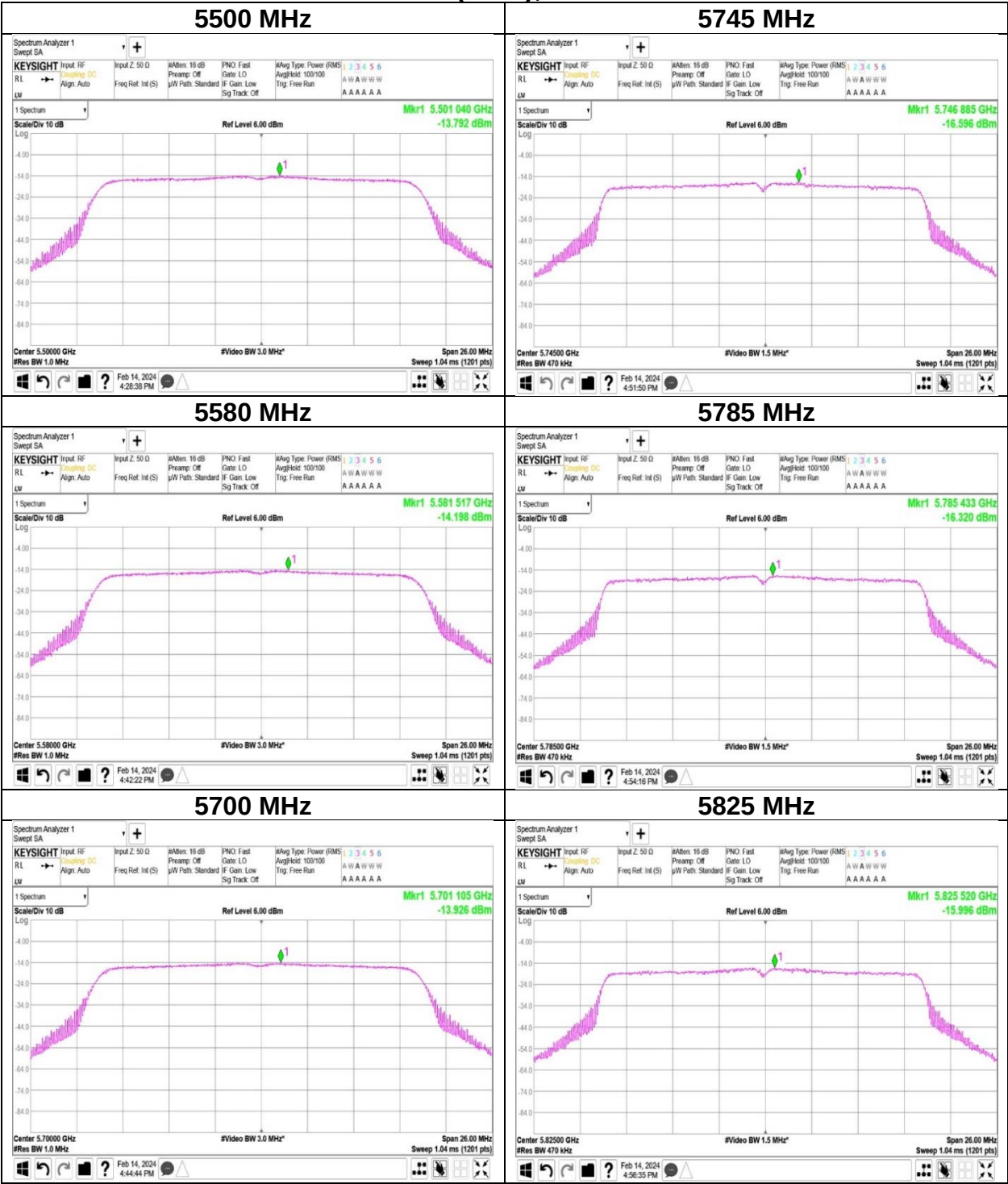


Maximum Power Spectral Density

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.2 Measurement Room
February 14, 2024
23 deg. C / 27 % RH
Kenichi Adachi
Tx 11n-20 (SISO)

11n-20 (SISO), Chain 2



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.2 Measurement Room
Date February 14, 2024
Temperature / Humidity 23 deg. C / 27 % RH
Engineer Kenichi Adachi
Mode Tx 11ac-20 (SISO)

Chain 2 (*1) Applied limit: 15.407, mobile and portable client device

Tested Frequency	PSD Frequency	PSD Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	RBW Correction Factor	PSD (Conducted)			PSD (e.i.r.p.)		
[MHz]	[MHz]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBi]	[dB]	Result	Limit	Margin	Result	Limit	Margin
5180	5178.960	-16.93	1.60	9.98	0.00	2.29	0.00	-5.35	11.00	16.35	-3.06	17.00	20.06
5220	5218.787	-17.46	1.61	9.98	0.00	2.29	0.00	-5.87	11.00	16.87	-3.58	17.00	20.58
5240	5241.018	-17.61	1.57	9.98	0.00	2.29	0.00	-6.06	11.00	17.06	-3.77	17.00	20.77
5260	5259.047	-17.87	1.58	9.98	0.00	2.29	0.00	-6.31	11.00	17.31	-4.02	17.00	21.02
5300	5298.570	-17.82	1.58	9.98	0.00	2.29	0.00	-6.26	11.00	17.26	-3.97	17.00	20.97
5320	5318.397	-18.23	1.62	9.98	0.00	2.29	0.00	-6.63	11.00	17.63	-4.34	17.00	21.34
5500	5501.647	-18.21	1.70	9.98	0.00	2.29	0.00	-6.53	11.00	17.53	-4.24	17.00	21.24
5580	5580.585	-18.68	1.70	9.98	0.00	2.29	0.00	-7.00	11.00	18.00	-4.71	17.00	21.71
5700	5698.483	-18.47	1.59	9.98	0.00	2.29	0.00	-6.90	11.00	17.90	-4.61	17.00	21.61
5720	5720.802	-18.49	1.60	9.98	0.00	2.29	0.00	-6.91	11.00	17.91	-4.62	17.00	21.62
5745	5744.263	-21.08	1.58	9.99	0.00	2.29	0.27	-9.24	30.00	39.24	-6.95	36.00	42.95
5785	5784.350	-20.38	1.58	9.99	0.00	2.29	0.27	-8.54	30.00	38.54	-6.25	36.00	42.25
5825	5824.372	-20.58	1.57	9.99	0.00	2.29	0.27	-8.75	30.00	38.75	-6.46	36.00	42.46

Sample Calculation:

PSD: Power Spectral Density

(*1) Power density was measured with using the gate function of spectrum analyzer.

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Correction Factor

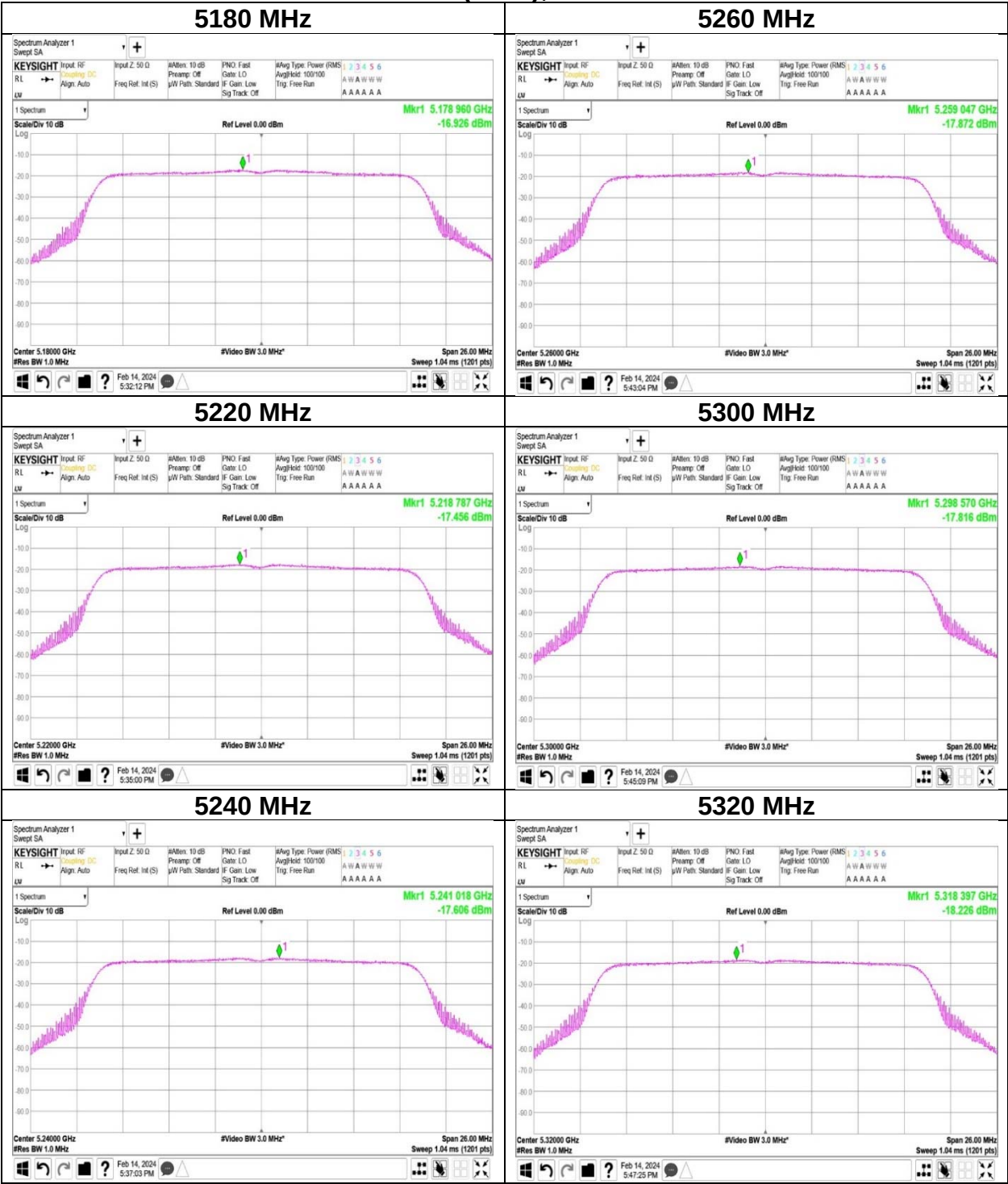
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.2 Measurement Room
February 14, 2024
23 deg. C / 27 % RH
Kenichi Adachi
Tx 11ac-20 (SISO)

11ac-20 (SISO), Chain 2



Maximum Power Spectral Density

Test place

Date

Temperature / Humidity

Engineer

Mode

Shonan EMC Lab. No.2 Measurement Room

February 14, 2024

23 deg. C / 27 % RH

Kenichi Adachi

Tx 11ac-20 (SISO)

11ac-20 (SISO), Chain 2

