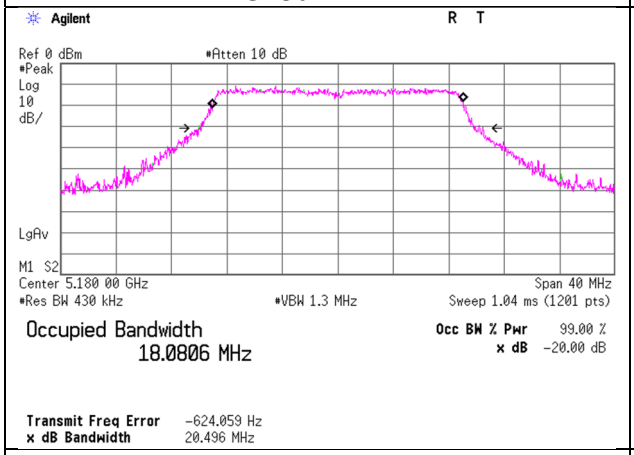
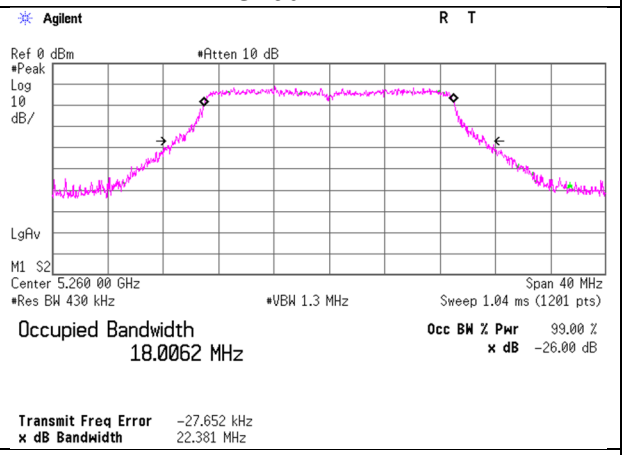
99 % Occupied Bandwidth

11ac-20

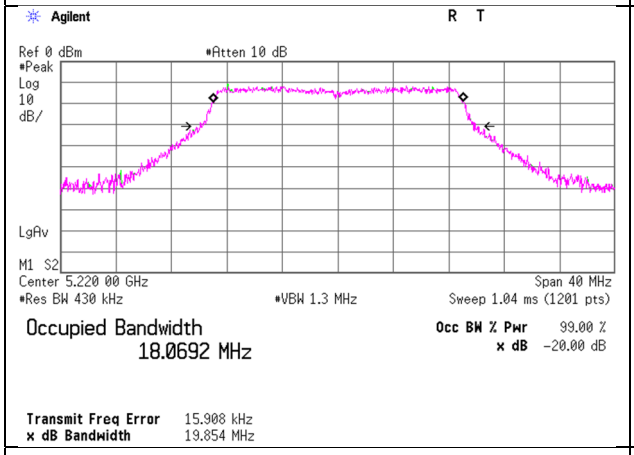
5180 MHz



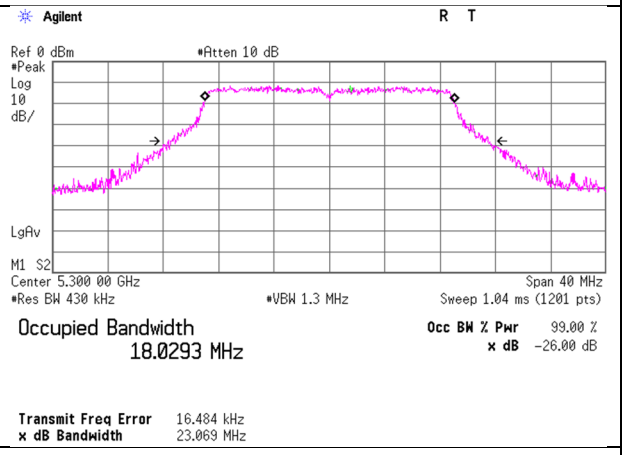
5260 MHz



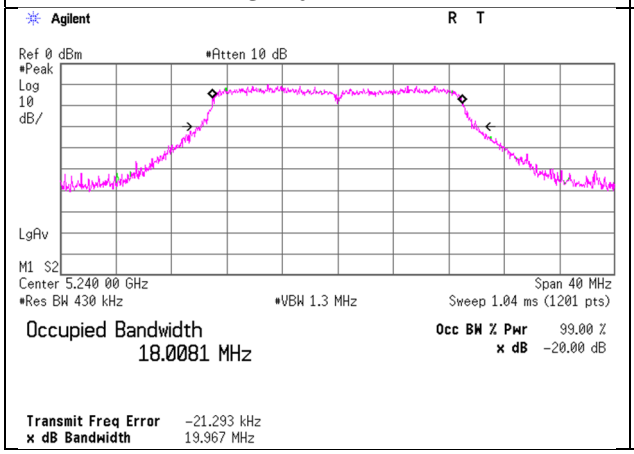
5220 MHz



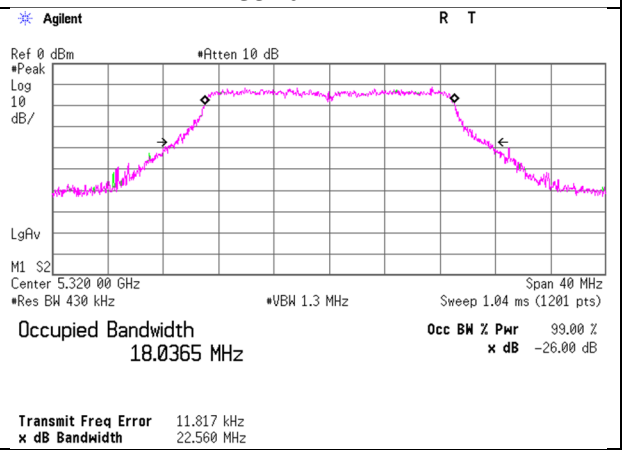
5300 MHz



5240 MHz



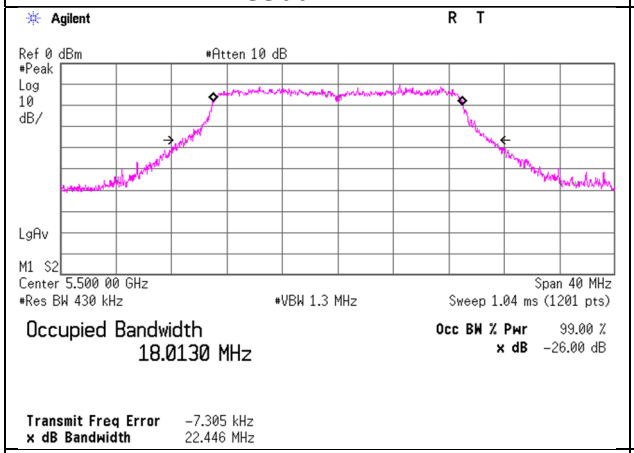
5320 MHz



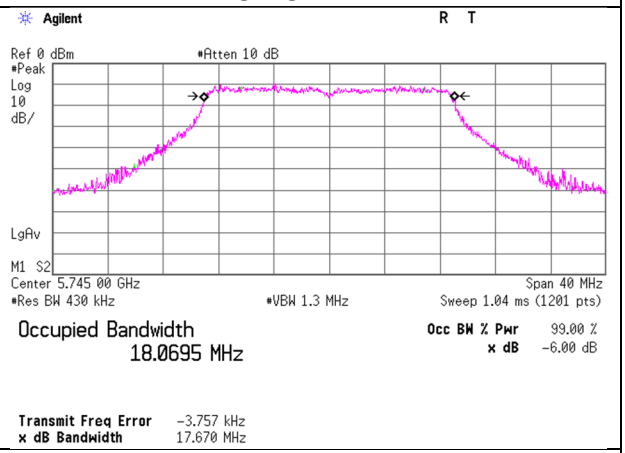
99 % Occupied Bandwidth

11ac-20

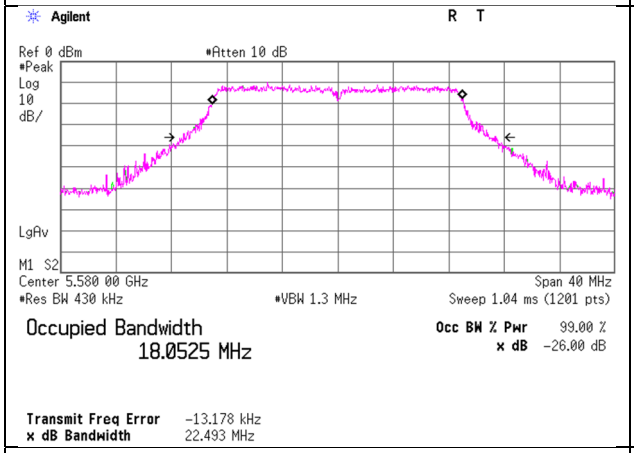
5500 MHz



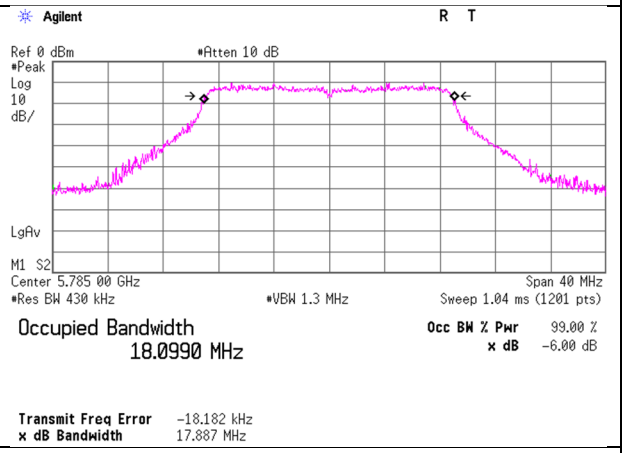
5745 MHz



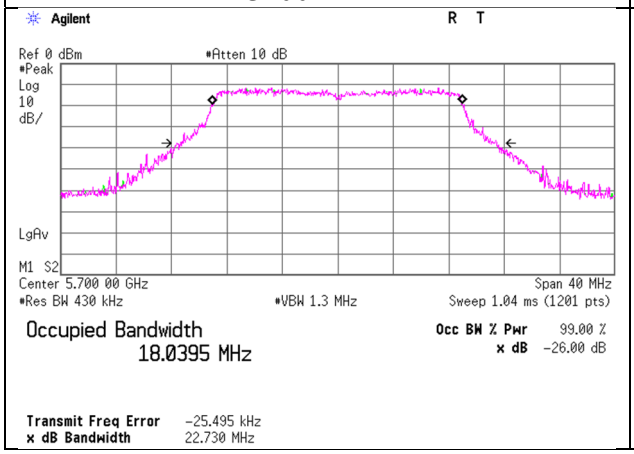
5580 MHz



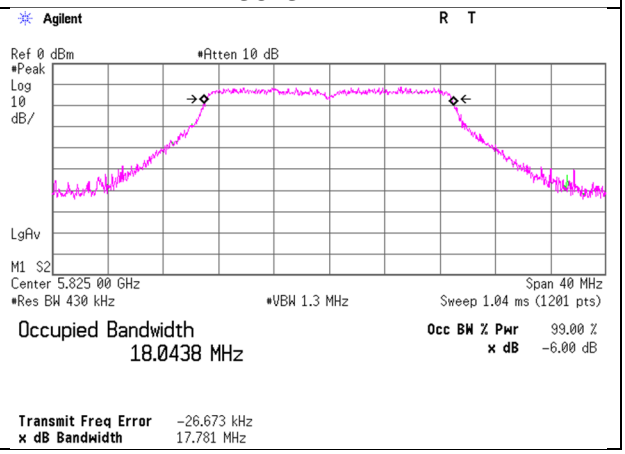
5785 MHz



5700 MHz



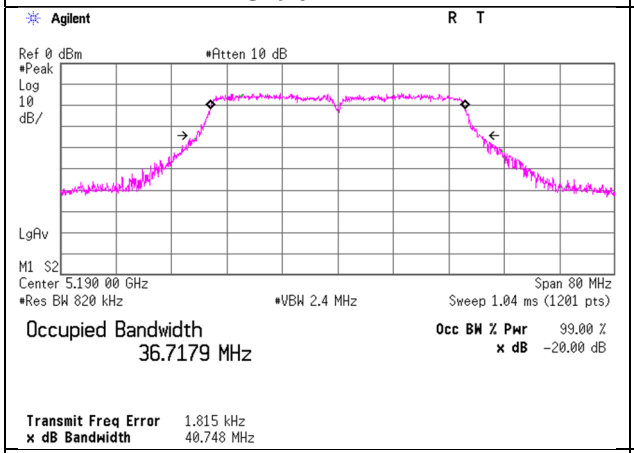
5825 MHz



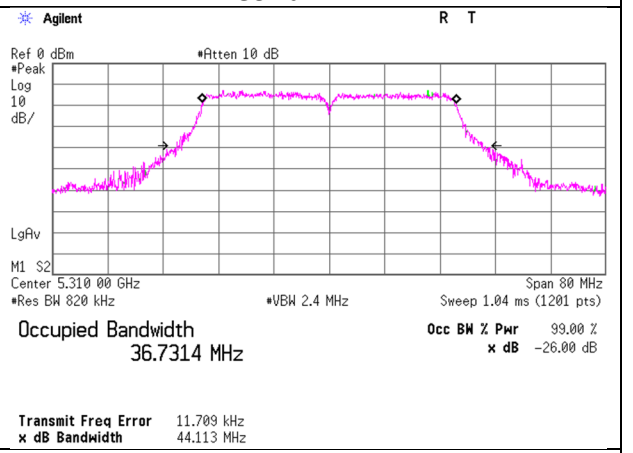
99 % Occupied Bandwidth

11n-40

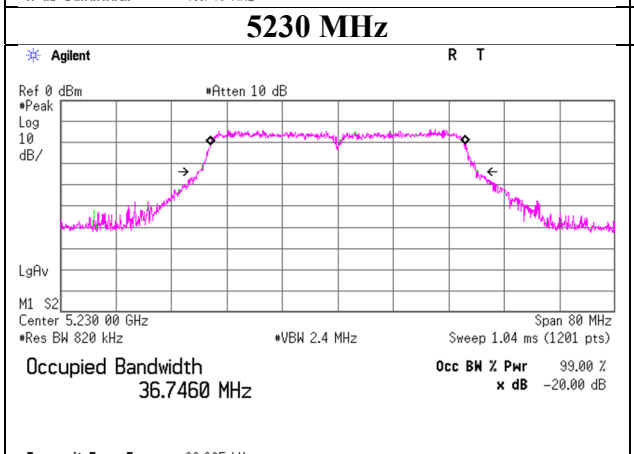
5190 MHz



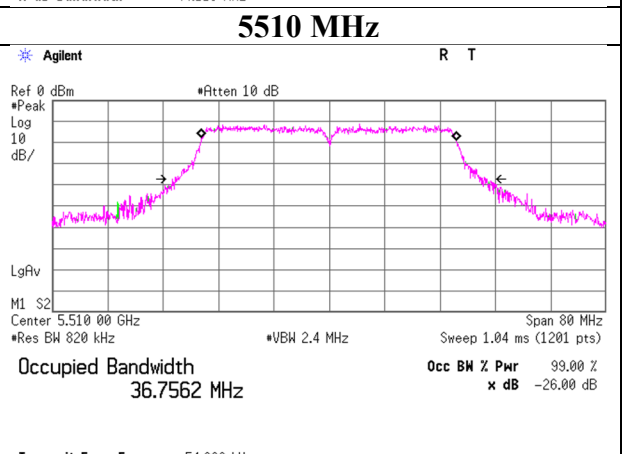
5310 MHz



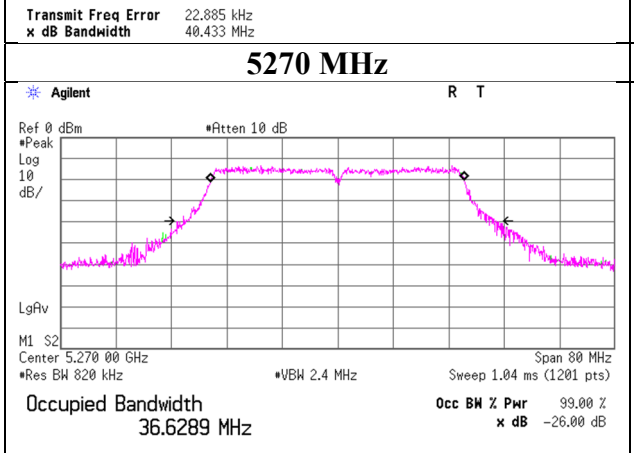
5230 MHz



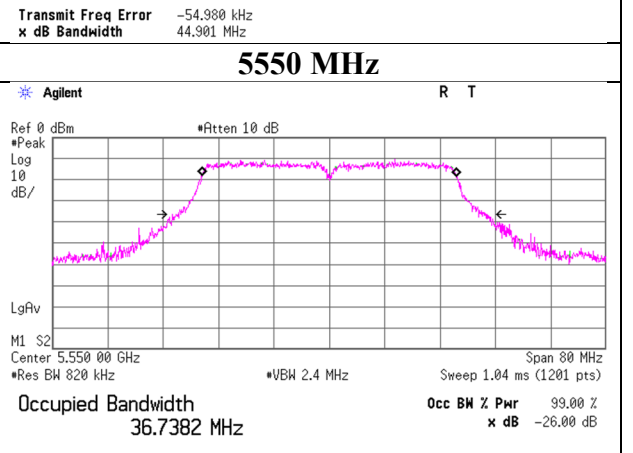
5510 MHz



5270 MHz



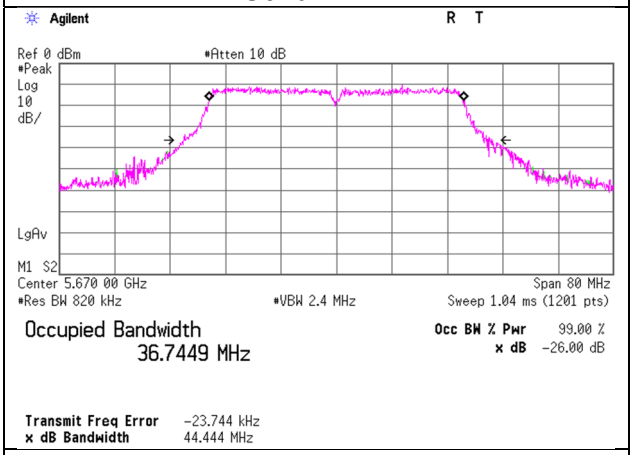
5550 MHz



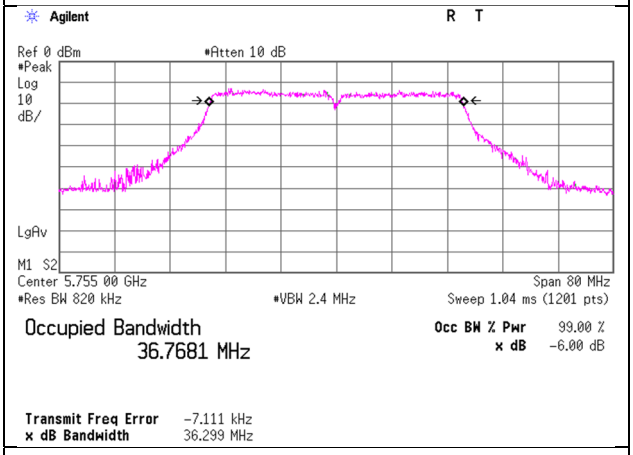
99 % Occupied Bandwidth

11n-40

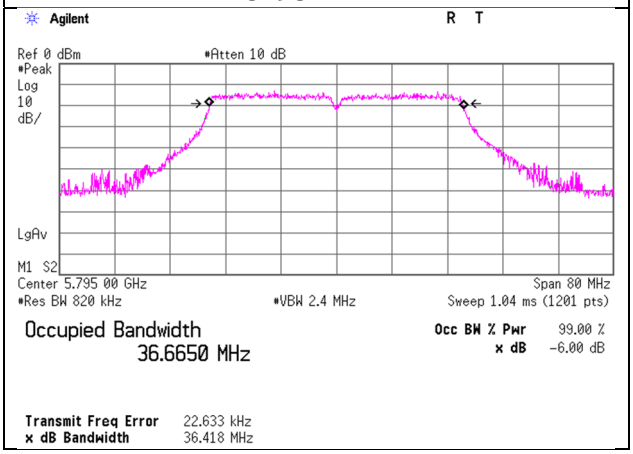
5670 MHz



5755 MHz



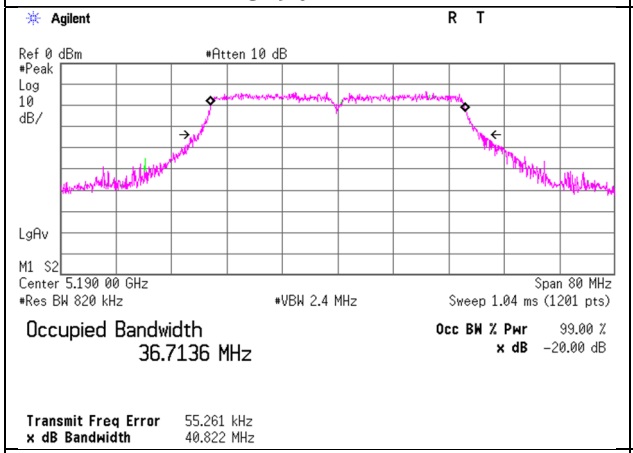
5795 MHz



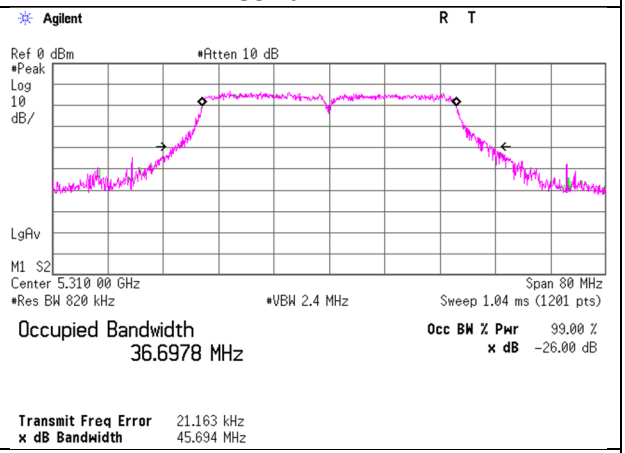
99 % Occupied Bandwidth

11ac-40

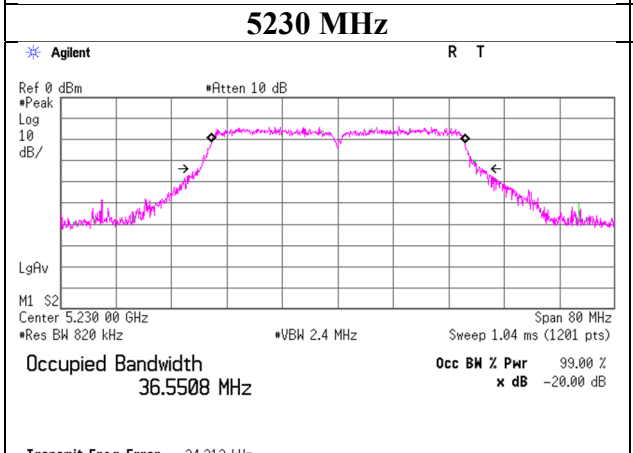
5190 MHz



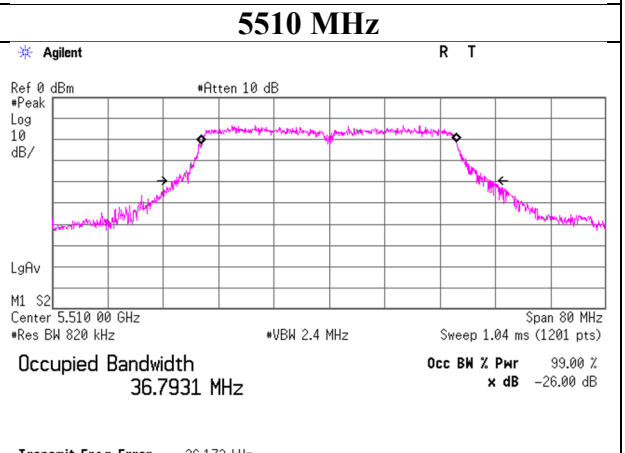
5310 MHz



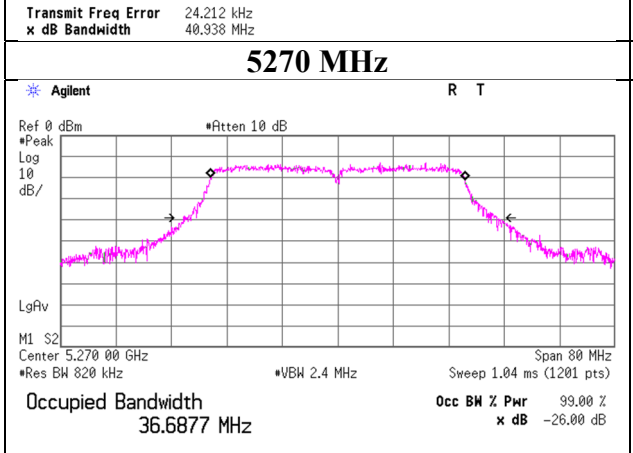
5230 MHz



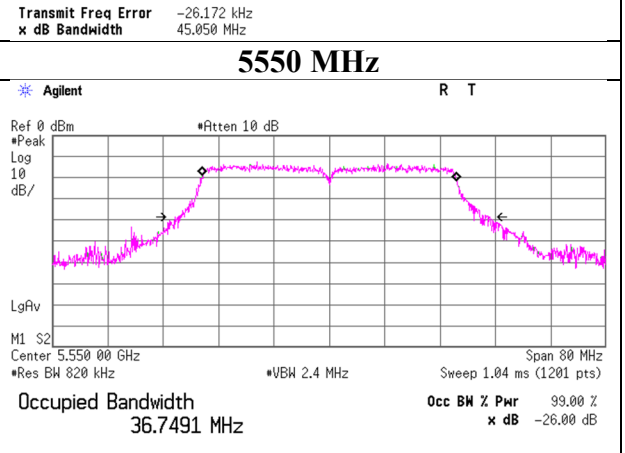
5510 MHz



5270 MHz



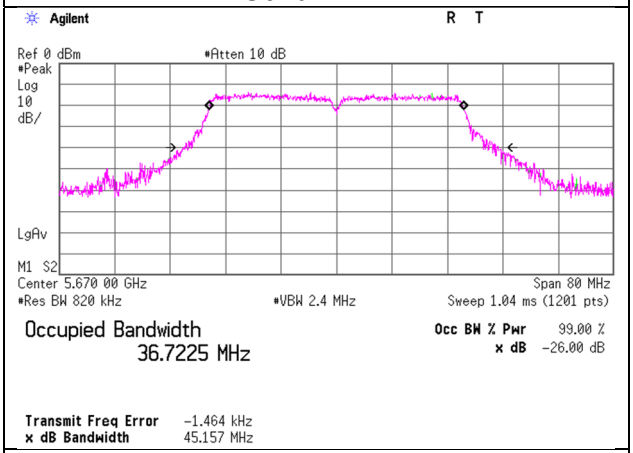
5550 MHz



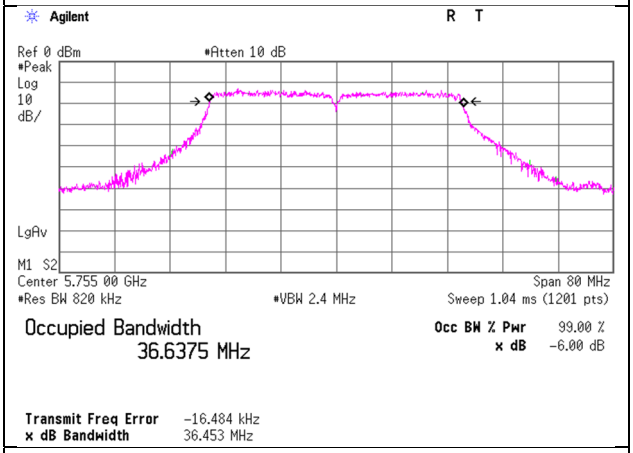
99 % Occupied Bandwidth

11ac-40

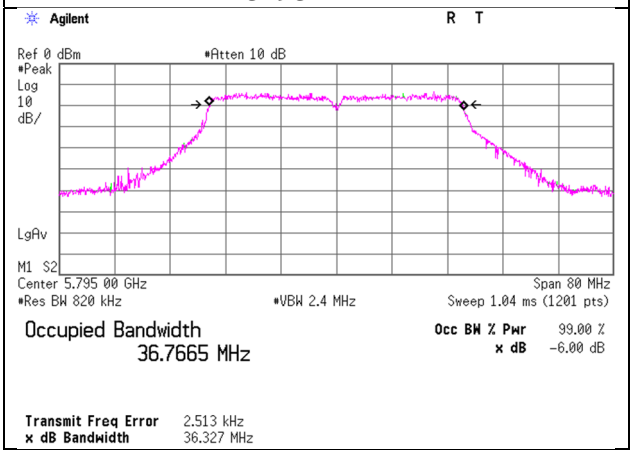
5670 MHz



5755 MHz



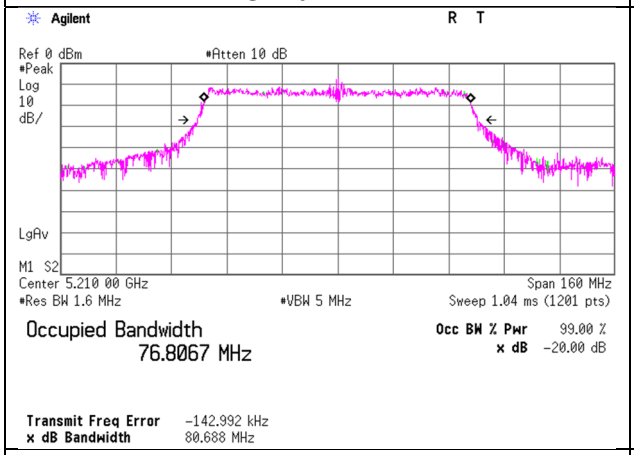
5795 MHz



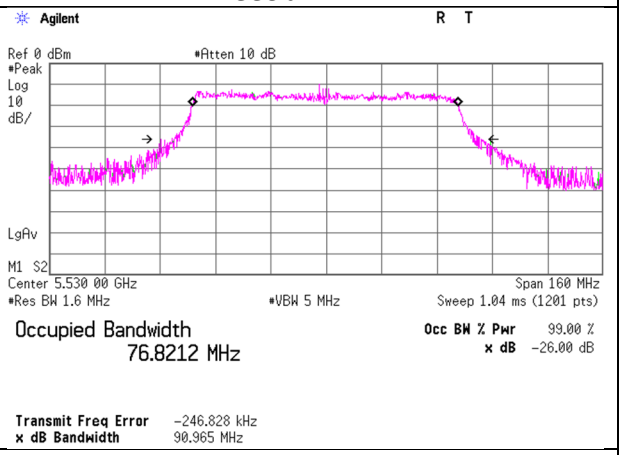
99 % Occupied Bandwidth

11ac-80

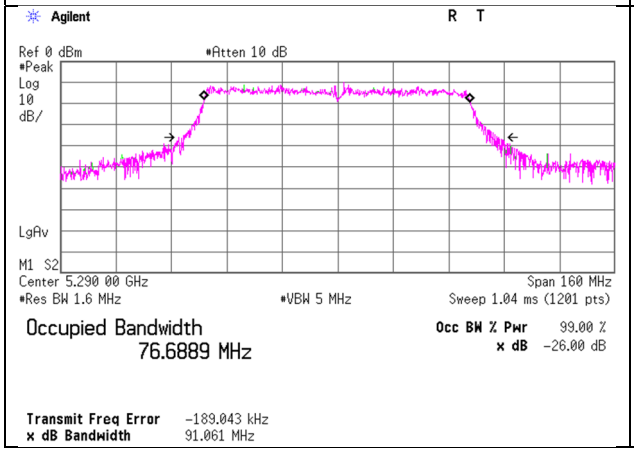
5210 MHz



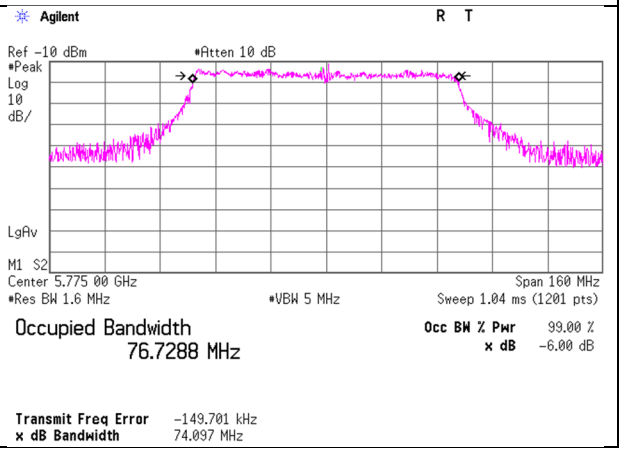
5530 MHz



5290 MHz



5775 MHz



6 dB Bandwidth

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 16, 2021	January 19, 2022
Temperature / Humidity	24 deg. C / 29 % RH	24 deg. C / 40 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx	

11a

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	16.468	> 0.500
5785	16.486	> 0.500
5825	16.467	> 0.500

11n-20

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	17.679	> 0.500
5785	17.722	> 0.500
5825	17.654	> 0.500

11ac-20

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	17.714	> 0.500
5785	17.723	> 0.500
5825	17.686	> 0.500

11n-40

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.425	> 0.500
5795	36.480	> 0.500

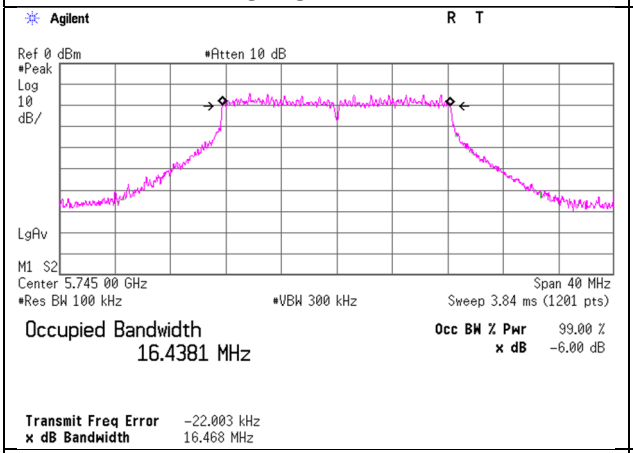
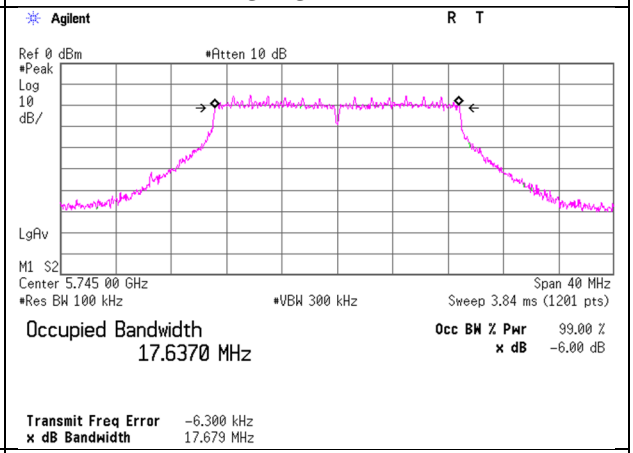
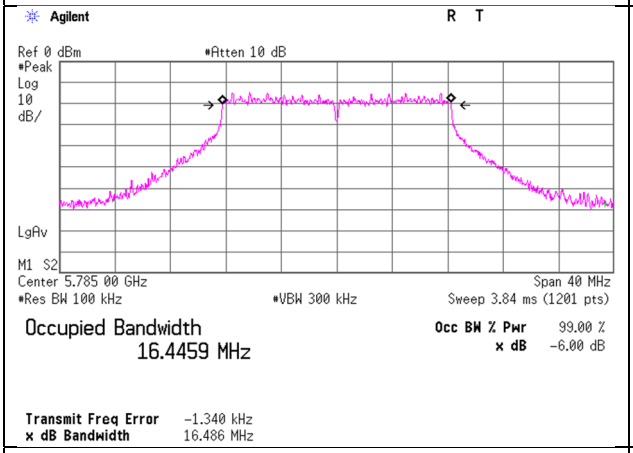
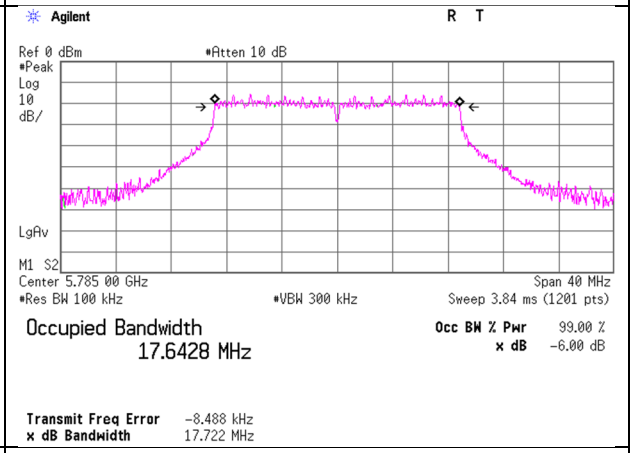
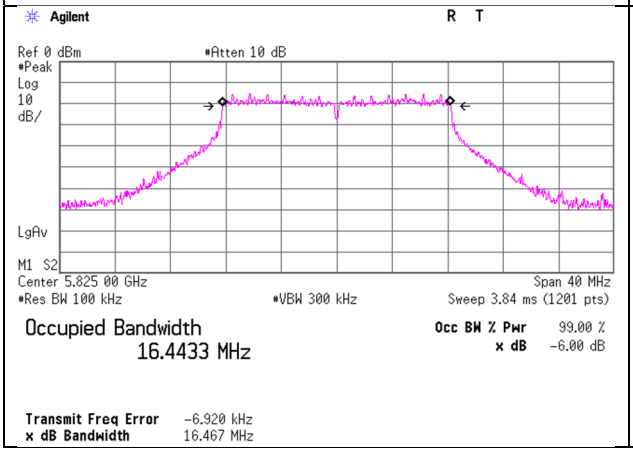
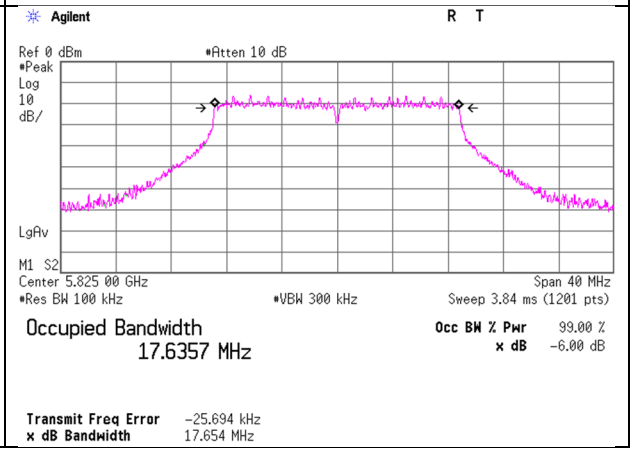
11ac-40

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.437	> 0.500
5795	36.369	> 0.500

11ac-80

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5775	76.112	> 0.500

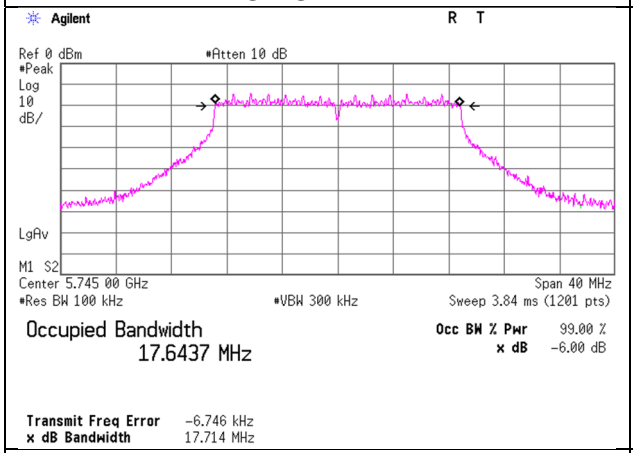
6 dB Bandwidth

11a	11n-20
5745 MHz	**5745 MHz**
	
5785 MHz	**5785 MHz**
	
5825 MHz	**5825 MHz**
	

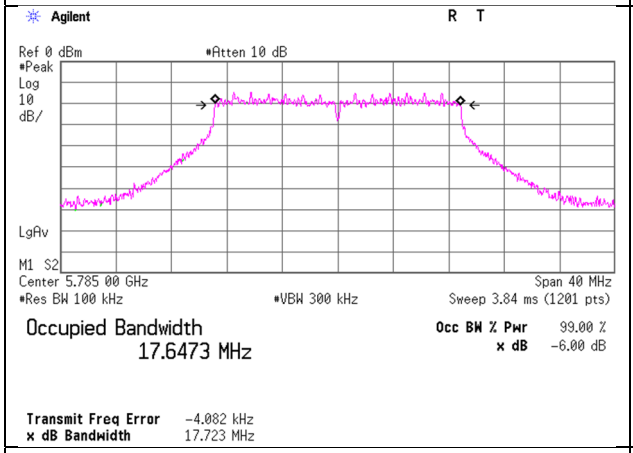
6 dB Bandwidth

11ac-20

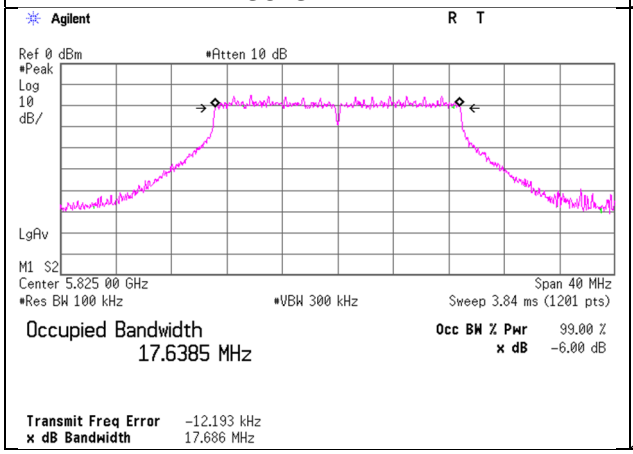
5745 MHz



5785 MHz

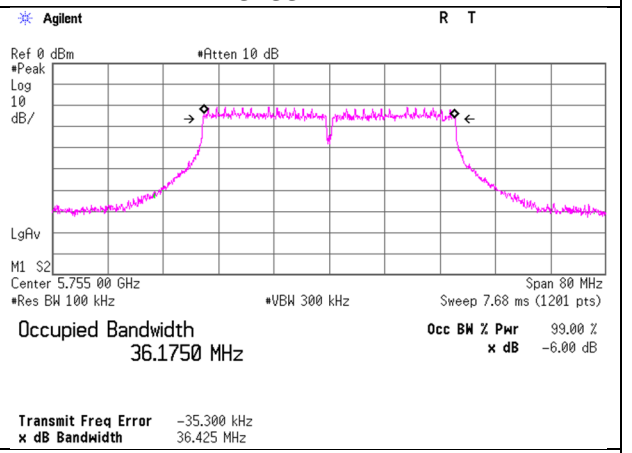


5825 MHz

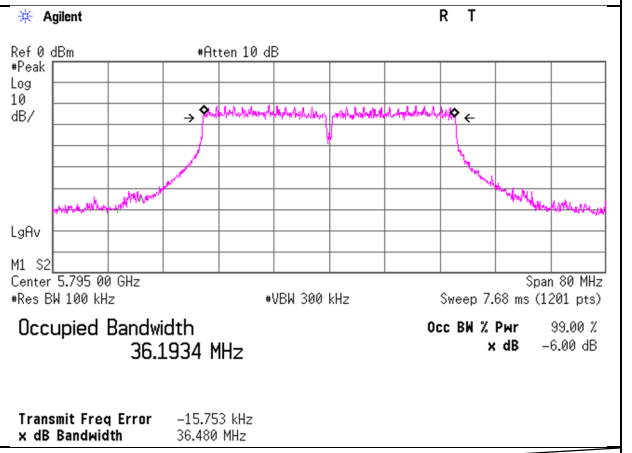


11n-40

5755 MHz



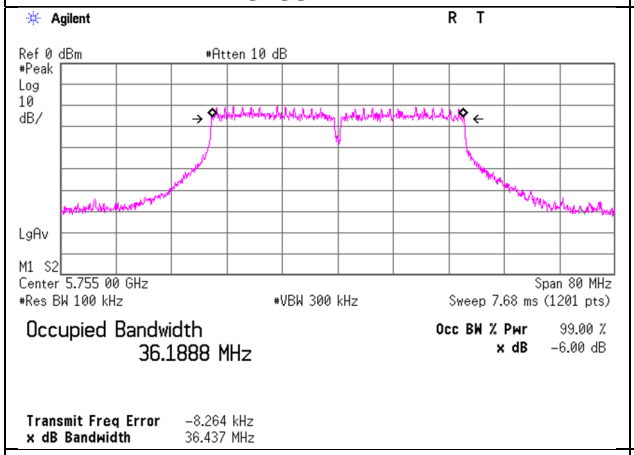
5795 MHz



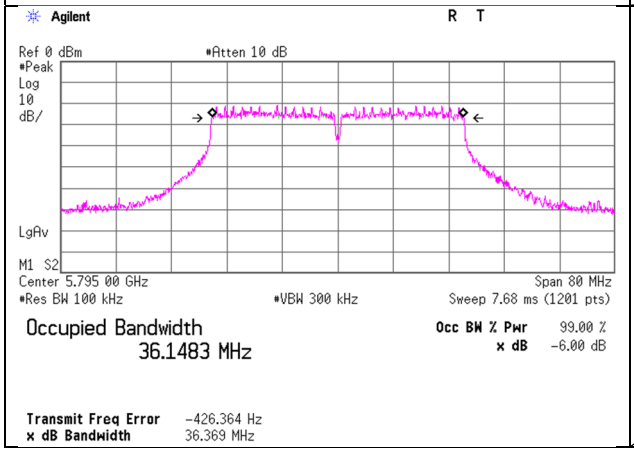
6 dB Bandwidth

11ac-40

5755 MHz

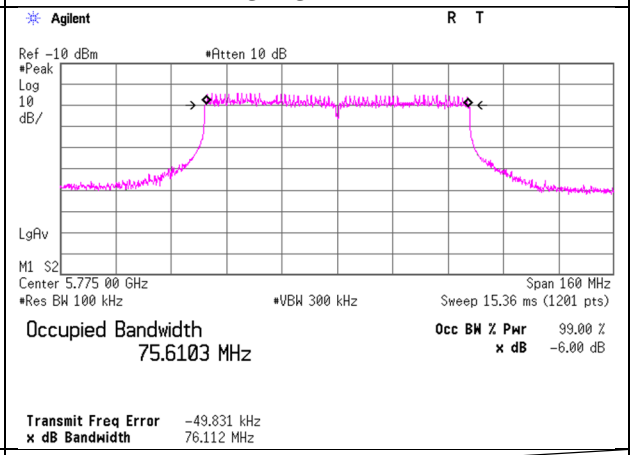


5795 MHz



11ac-80

5775 MHz



Maximum Conducted Output Power

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 3, 2021	December 16, 2021
Temperature / Humidity	25 deg. C / 25 % RH	24 deg. C / 29 % RH
Engineer	Kiyoshiro Okazaki	Nachi Konegawa
Mode	Tx 11a	

11a 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 IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-11.20	1.14	20.04	0.00	0.6	-	16.931	9.98	9.96	23.97	13.99	10.60	11.49	29.97	19.37
5220	-11.29	1.15	20.03	0.00	0.6	-	16.922	9.89	9.76	23.97	14.08	10.51	11.25	29.97	19.46
5240	-11.21	1.15	20.03	0.00	0.6	-	16.948	9.97	9.94	23.97	14.00	10.59	11.47	29.97	19.38
5260	-11.26	1.16	20.03	0.00	0.6	20.932	16.988	9.93	9.83	23.97	14.04	10.55	11.34	29.97	19.42
5300	-11.29	1.15	20.03	0.00	0.6	20.519	17.009	9.89	9.74	23.97	14.08	10.51	11.24	29.97	19.46
5320	-11.62	1.16	20.03	0.00	0.6	21.073	17.001	9.57	9.06	23.97	14.40	10.19	10.45	29.97	19.78
5500	-12.30	1.17	20.01	0.00	0.6	20.549	16.939	8.88	7.72	23.97	15.09	9.50	8.91	29.97	20.47
5580	-11.42	1.19	20.02	0.00	0.6	20.903	16.931	9.79	9.54	23.97	14.18	10.41	11.00	29.97	19.56
5700	-12.04	1.20	20.02	0.00	0.6	20.924	16.972	9.18	8.29	23.97	14.79	9.80	9.56	29.97	20.17
5745	-11.32	1.20	20.02	0.00	0.6	-	16.957	9.90	9.78	30.00	20.10	10.52	11.28	36.00	25.48
5785	-11.73	1.20	20.03	0.00	0.6	-	17.028	9.50	8.92	30.00	20.50	10.12	10.29	36.00	25.88
5825	-12.26	1.20	20.03	0.00	0.6	-	16.995	8.97	7.89	30.00	21.03	9.59	9.10	36.00	26.41

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
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) = 1W

5180 MHz

Mode	Rate Mbps	Burst Power [dBm]	Remarks
11a	6	-11.22	
	9	-11.24	
	12	-11.36	
	18	-11.27	
	24	-11.37	
	36	-11.20	*
	48	-11.30	
	54	-11.29	

* Worst rate
Sample Calculation:
Burst power = Reading + Duty factor
All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 3, 2021	December 16, 2021
Temperature / Humidity	25 deg. C / 25 % RH	24 deg. C / 29 % RH
Engineer	Kiyoshiro Okazaki	Nachi Konegawa
Mode	Tx 11n-20	

11n-20 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 IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-12.47	1.14	20.04	0.00	0.6	-	17.983	8.71	7.44	23.97	15.26	9.33	8.58	29.97	20.64
5220	-12.57	1.15	20.03	0.00	0.6	-	18.008	8.61	7.26	23.97	15.36	9.23	8.38	29.97	20.74
5240	-12.24	1.15	20.03	0.00	0.6	-	18.048	8.94	7.84	23.97	15.03	9.56	9.05	29.97	20.41
5260	-12.17	1.16	20.03	0.00	0.6	21.782	18.015	9.02	7.97	23.97	14.95	9.64	9.20	29.97	20.33
5300	-12.03	1.15	20.03	0.00	0.6	21.379	18.077	9.15	8.21	23.97	14.82	9.77	9.48	29.97	20.20
5320	-12.71	1.16	20.03	0.00	0.6	21.257	18.008	8.48	7.05	23.97	15.49	9.10	8.13	29.97	20.87
5500	-12.34	1.17	20.01	0.00	0.6	21.389	18.029	8.84	7.65	23.97	15.13	9.46	8.83	29.97	20.51
5580	-11.77	1.19	20.02	0.00	0.6	21.183	18.019	9.44	8.80	23.97	14.53	10.06	10.15	29.97	19.91
5700	-12.16	1.20	20.02	0.00	0.6	21.254	18.007	9.06	8.06	23.97	14.91	9.68	9.30	29.97	20.29
5745	-12.28	1.20	20.02	0.00	0.6	-	18.036	8.94	7.84	30.00	21.06	9.56	9.04	36.00	26.44
5785	-12.02	1.20	20.03	0.00	0.6	-	18.032	9.21	8.34	30.00	20.79	9.83	9.62	36.00	26.17
5825	-12.85	1.20	20.03	0.00	0.6	-	18.048	8.38	6.89	30.00	21.62	9.00	7.94	36.00	27.00

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
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) = 1W

5180 MHz

Mode	Rate MCS	Reading [dBm] (Burst Power)	Remarks
11n-20	0	-12.70	
	1	-12.91	
	2	-12.61	
	3	-13.00	
	4	-13.00	
	5	-12.50	
	6	-12.47	*
	7	-12.91	

* Worst rate
Sample Calculation:
Burst power = Reading + Duty factor
All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Report No.	14118411H		
Test place	Ise EMC Lab.		
Measurement Room	No.8	No.8	No.6
Date	December 3, 2021	December 16, 2021	March 15, 2022
Temperature / Humidity	25 deg. C / 25 % RH	24 deg. C / 29 % RH	25 deg. C / 30 % RH
Engineer	Kiyoshiro Okazaki	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11ac-20		

11ac-20 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 IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-12.24	1.14	20.04	0.00	0.6	-	18.081	8.94	7.84	23.97	15.03	9.56	9.05	29.97	20.41
5220	-12.57	1.15	20.03	0.00	0.6	-	18.069	8.61	7.26	23.97	15.36	9.23	8.38	29.97	20.74
5240	-12.23	1.15	20.03	0.00	0.6	-	18.008	8.95	7.86	23.97	15.02	9.57	9.07	29.97	20.40
5260	-12.50	1.16	20.03	0.00	0.6	21.293	18.006	8.69	7.39	23.97	15.28	9.31	8.52	29.97	20.66
5300	-12.30	1.15	20.03	0.00	0.6	21.370	18.029	8.88	7.72	23.97	15.09	9.50	8.90	29.97	20.47
5320	-12.79	1.16	20.03	0.00	0.6	21.543	18.037	8.40	6.92	23.97	15.57	9.02	7.98	29.97	20.95
5500	-12.38	1.17	20.01	0.00	0.6	21.334	18.013	8.80	7.58	23.97	15.17	9.42	8.74	29.97	20.55
5580	-11.82	1.19	20.02	0.00	0.6	21.160	18.053	9.39	8.70	23.97	14.58	10.01	10.03	29.97	19.96
5700	-12.34	1.20	20.02	0.00	0.6	21.315	18.040	8.88	7.73	23.97	15.09	9.50	8.92	29.97	20.47
5745	-11.74	1.20	20.02	0.00	0.6	-	18.070	9.48	8.88	30.00	20.52	10.10	10.24	36.00	25.90
5785	-11.74	1.20	20.03	0.00	0.6	-	18.099	9.49	8.90	30.00	20.51	10.11	10.26	36.00	25.89
5825	-12.44	1.20	20.03	0.00	0.6	-	18.044	8.79	7.57	30.00	21.21	9.41	8.73	36.00	26.59

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
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) = 1W

5180 MHz

Mode	Rate MCS	Reading [dBm] (Burst Power)	Remarks
11ac-20	0	-12.68	
	1	-12.51	
	2	-12.65	
	3	-12.74	
	4	-12.31	
	5	-12.46	
	6	-12.24	*
	7	-12.77	
	8	-12.43	

* Worst rate
Sample Calculation:
Burst power = Reading + Duty factor
All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 3, 2021	December 16, 2021
Temperature / Humidity	25 deg. C / 25 % RH	24 deg. C / 29 % RH
Engineer	Kiyoshiro Okazaki	Nachi Konegawa
Mode	Tx 11n-40	

11n-40 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 IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5190	-15.08	1.15	20.04	0.00	0.6	-	36.718	6.11	4.08	23.97	17.86	6.73	4.71	29.97	23.24
5230	-15.49	1.16	20.03	0.00	0.6	-	36.746	5.70	3.72	23.97	18.27	6.32	4.29	29.97	23.65
5270	-14.79	1.15	20.03	0.00	0.6	43.097	36.629	6.39	4.36	23.97	17.58	7.01	5.03	29.97	22.96
5310	-14.77	1.15	20.03	0.00	0.6	42.478	36.731	6.41	4.38	23.97	17.56	7.03	5.05	29.97	22.94
5510	-14.81	1.13	20.01	0.00	0.6	42.510	36.756	6.33	4.29	23.97	17.64	6.95	4.95	29.97	23.02
5550	-14.48	1.17	20.02	0.00	0.6	42.794	36.738	6.71	4.69	23.97	17.26	7.33	5.40	29.97	22.64
5670	-14.81	1.17	20.02	0.00	0.6	43.021	36.745	6.38	4.35	23.97	17.59	7.00	5.02	29.97	22.97
5755	-14.84	1.23	20.02	0.00	0.6	-	36.768	6.41	4.37	30.00	23.59	7.03	5.04	36.00	28.97
5795	-14.81	1.20	20.03	0.00	0.6	-	36.665	6.42	4.39	30.00	23.58	7.04	5.06	36.00	28.96

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
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) = 1W

5190 MHz

Mode	Rate MCS	Reading [dBm] Burst Power	Remarks
11n-40	0	-15.11	
	1	-15.31	
	2	-15.19	
	3	-15.13	
	4	-15.48	
	5	-15.08	*
	6	-15.09	
	7	-15.40	

* Worst rate
Sample Calculation:
Burst power = Reading + Duty factor
All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 3, 2021	December 16, 2021
Temperature / Humidity	25 deg. C / 25 % RH	24 deg. C / 29 % RH
Engineer	Kiyoshiro Okazaki	Nachi Konegawa
Mode	Tx 11ac-40	

11ac-40 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 IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5190	-15.37	1.15	20.04	0.00	0.6	-	36.714	5.82	3.82	23.97	18.15	6.44	4.40	29.97	23.53
5230	-15.56	1.16	20.03	0.00	0.6	-	36.551	5.63	3.66	23.97	18.34	6.25	4.22	29.97	23.72
5270	-14.89	1.15	20.03	0.00	0.6	43.087	36.688	6.29	4.26	23.97	17.68	6.91	4.91	29.97	23.06
5310	-14.72	1.15	20.03	0.00	0.6	43.002	36.698	6.46	4.43	23.97	17.51	7.08	5.11	29.97	22.89
5510	-14.86	1.13	20.01	0.00	0.6	42.040	36.793	6.28	4.24	23.97	17.69	6.90	4.90	29.97	23.07
5550	-14.53	1.17	20.02	0.00	0.6	43.502	36.749	6.66	4.63	23.97	17.31	7.28	5.34	29.97	22.69
5670	-14.97	1.17	20.02	0.00	0.6	42.602	36.723	6.22	4.19	23.97	17.75	6.84	4.83	29.97	23.13
5755	-14.64	1.23	20.02	0.00	0.6	-	36.638	6.61	4.58	30.00	23.39	7.23	5.28	36.00	28.77
5795	-15.00	1.20	20.03	0.00	0.6	-	36.767	6.23	4.20	30.00	23.77	6.85	4.84	36.00	29.15

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor
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) = 1W

5190 MHz

Mode	Rate MCS	Reading [dBm] Burst Power	Remarks
11ac-40	0	-15.58	
	1	-15.41	
	2	-15.45	
	3	-15.46	
	4	-15.43	
	5	-15.68	
	6	-15.55	
	7	-15.70	
	8	-15.48	
	9	-15.37	*

* Worst rate
Sample Calculation:
Burst power = Reading + Duty factor
All comparison were carried out on same frequency and measurement factors.

Maximum Conducted Output Power

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 3, 2021	December 16, 2021
Temperature / Humidity	25 deg. C / 25 % RH	24 deg. C / 29 % RH
Engineer	Kiyoshiro Okazaki	Nachi Konegawa
Mode	Tx 11ac-80	

11ac-80 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 IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5210	-13.13	1.15	20.03	0.00	0.6	-	76.807	8.05	6.39	23.97	15.92	8.67	7.37	29.97	21.30
5290	-13.32	1.15	20.03	0.00	0.6	90.102	76.689	7.86	6.11	23.97	16.11	8.48	7.04	29.97	21.49
5530	-15.07	1.14	20.01	0.00	0.6	89.493	76.821	6.08	4.05	23.97	17.89	6.70	4.67	29.97	23.27
5775	-15.72	1.22	20.03	0.00	0.6	-	76.729	5.53	3.57	30.00	24.47	6.15	4.12	36.00	29.85

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

5210 MHz

Mode	Rate MCS	Burst Power [dBm]	Remarks
11ac-80	0	-13.16	
	1	-13.28	
	2	-13.17	
	3	-13.42	
	4	-13.28	
	5	-13.22	
	6	-13.16	
	7	-13.13	*
	8	-13.35	
	9	-13.24	

* Worst rate
Sample Calculation:
Burst power = Reading + Duty factor
All comparison were carried out on same frequency and measurement factors.

Average Output Power
(Reference data for SAR testing)

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11a

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5180	-3.10	2.72	10.09	9.71	9.36	0.20	9.91	9.80
5220	-3.36	2.74	10.09	9.47	8.86	0.20	9.67	9.27
5240	-3.09	2.74	10.09	9.74	9.43	0.20	9.94	9.87
5260	-3.15	2.75	10.09	9.69	9.30	0.20	9.89	9.74
5300	-3.16	2.75	10.09	9.68	9.28	0.20	9.88	9.72
5320	-3.57	2.77	10.09	9.29	8.50	0.20	9.49	8.90
5500	-4.42	2.78	10.10	8.46	7.02	0.20	8.66	7.35
5580	-3.43	2.84	10.10	9.51	8.94	0.20	9.71	9.36
5700	-4.01	2.86	10.09	8.94	7.84	0.20	9.14	8.21
5745	-3.25	2.85	10.09	9.69	9.31	0.20	9.89	9.74
5785	-3.71	2.87	10.09	9.25	8.42	0.20	9.45	8.82
5825	-4.24	2.87	10.09	8.72	7.45	0.20	8.92	7.80

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power
(Reference data for SAR testing)

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11n-20

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5180	-4.31	2.72	10.09	8.50	7.09	0.21	8.71	7.44
5220	-4.65	2.74	10.09	8.18	6.58	0.21	8.39	6.91
5240	-4.11	2.74	10.09	8.72	7.46	0.21	8.93	7.82
5260	-4.48	2.75	10.09	8.36	6.85	0.21	8.57	7.19
5300	-4.02	2.75	10.09	8.82	7.61	0.21	9.03	7.99
5320	-4.83	2.77	10.09	8.03	6.36	0.21	8.24	6.67
5500	-4.65	2.78	10.10	8.23	6.66	0.21	8.44	6.99
5580	-3.82	2.84	10.10	9.12	8.17	0.21	9.33	8.58
5700	-4.16	2.86	10.09	8.79	7.58	0.21	9.00	7.95
5745	-4.23	2.85	10.09	8.71	7.43	0.21	8.92	7.79
5785	-3.98	2.87	10.09	8.98	7.91	0.21	9.19	8.30
5825	-4.82	2.87	10.09	8.14	6.52	0.21	8.35	6.84

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power
(Reference data for SAR testing)

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11ac-20

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5180	-4.11	2.72	10.09	8.70	7.42	0.21	8.91	7.79
5220	-4.65	2.74	10.09	8.18	6.58	0.21	8.39	6.91
5240	-4.20	2.74	10.09	8.63	7.30	0.21	8.84	7.66
5260	-4.37	2.75	10.09	8.47	7.03	0.21	8.68	7.37
5300	-4.20	2.75	10.09	8.64	7.30	0.21	8.85	7.67
5320	-4.70	2.77	10.09	8.16	6.55	0.21	8.37	6.87
5500	-4.74	2.78	10.10	8.14	6.52	0.21	8.35	6.84
5580	-3.78	2.84	10.10	9.16	8.25	0.21	9.37	8.66
5700	-4.33	2.86	10.09	8.62	7.29	0.21	8.83	7.65
5745	-3.68	2.85	10.09	9.26	8.43	0.21	9.47	8.85
5785	-3.73	2.87	10.09	9.23	8.38	0.21	9.44	8.80
5825	-4.56	2.87	10.09	8.40	6.92	0.21	8.61	7.26

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power
(Reference data for SAR testing)

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11n-40

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5190	-7.23	2.73	10.09	5.59	3.62	0.43	6.02	4.00
5230	-7.67	2.75	10.09	5.17	3.29	0.43	5.60	3.63
5270	-7.24	2.75	10.09	5.60	3.63	0.43	6.03	4.01
5310	-6.97	2.75	10.09	5.87	3.87	0.43	6.30	4.27
5510	-7.12	2.77	10.10	5.75	3.76	0.43	6.18	4.15
5550	-6.70	2.82	10.10	6.22	4.19	0.43	6.65	4.62
5670	-7.08	2.85	10.09	5.86	3.85	0.43	6.29	4.25
5755	-7.04	2.90	10.09	5.95	3.93	0.43	6.38	4.34
5795	-7.30	2.87	10.09	5.66	3.68	0.43	6.09	4.06

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power
(Reference data for SAR testing)

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11ac-40

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5190	-7.45	2.73	10.09	5.37	3.44	0.43	5.80	3.80
5230	-7.69	2.75	10.09	5.15	3.27	0.43	5.58	3.61
5270	-7.18	2.75	10.09	5.66	3.68	0.43	6.09	4.07
5310	-6.91	2.75	10.09	5.93	3.92	0.43	6.36	4.33
5510	-7.12	2.77	10.10	5.75	3.76	0.43	6.18	4.15
5550	-6.82	2.82	10.10	6.10	4.07	0.43	6.53	4.49
5670	-7.17	2.85	10.09	5.77	3.77	0.43	6.20	4.16
5755	-6.85	2.90	10.09	6.14	4.11	0.43	6.57	4.53
5795	-7.28	2.87	10.09	5.68	3.70	0.43	6.11	4.08

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power
(Reference data for SAR testing)

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11ac-80

Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Result (Timed average)		Duty factor	Result (Burst power average)	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dB]	[dBm]	[mW]
5210	-5.62	2.73	10.09	7.20	5.25	0.84	8.04	6.37
5290	-5.99	2.75	10.09	6.85	4.84	0.84	7.69	5.87
5530	-7.66	2.78	10.10	5.22	3.32	0.84	6.06	4.03
5775	-8.30	2.89	10.09	4.68	2.94	0.84	5.52	3.56

Sample Calculation:
Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
Result (Burst power average) = Time average + Duty factor

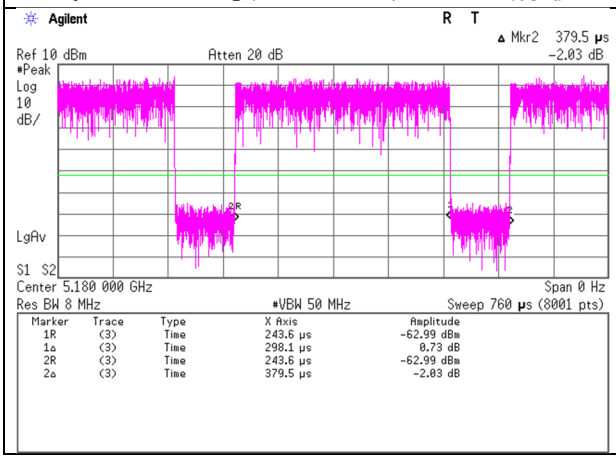
The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Burst rate confirmation

Report No.	14118411H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	December 3, 2021
Temperature / Humidity	22 deg. C / 31 % RH
Engineer	Kiyoshiro Okazaki
Mode	Tx

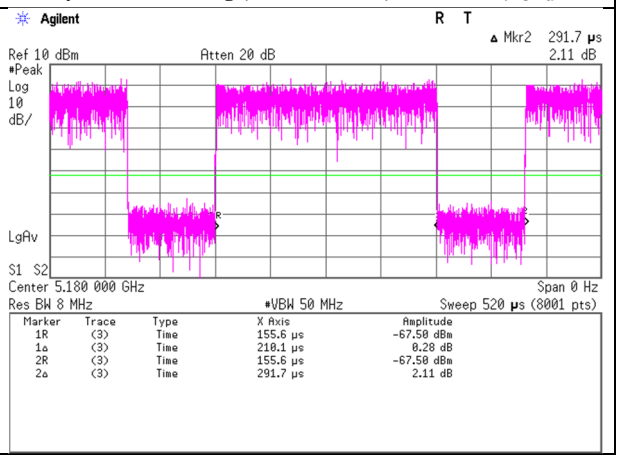
11a 36 Mbps

Tx on / (Tx on + Tx off) =	0.786
Tx on / (Tx on + Tx off) * 100 =	78.6 %
Duty factor = 10 * log (0.3795 / 0.2981) =	1.05 dB



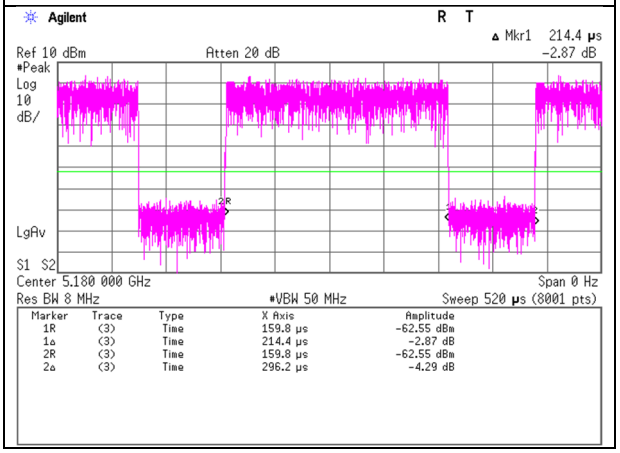
11n-20 MCS 6

Tx on / (Tx on + Tx off) =	0.720
Tx on / (Tx on + Tx off) * 100 =	72.0 %
Duty factor = 10 * log (0.2917 / 0.2101) =	1.43 dB



11ac-20 MSC 6

Tx on / (Tx on + Tx off) =	0.724
Tx on / (Tx on + Tx off) * 100 =	72.4 %
Duty factor = 10 * log (0.2962 / 0.2144) =	1.40 dB

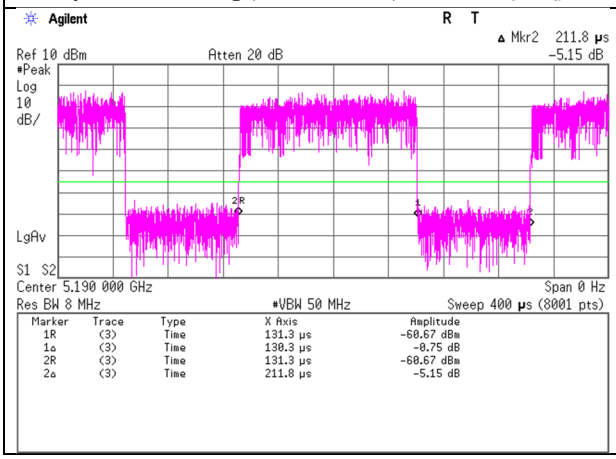


Burst rate confirmation

Report No.	14118411H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	December 3, 2021
Temperature / Humidity	22 deg. C / 31 % RH
Engineer	Kiyoshiro Okazaki
Mode	Tx

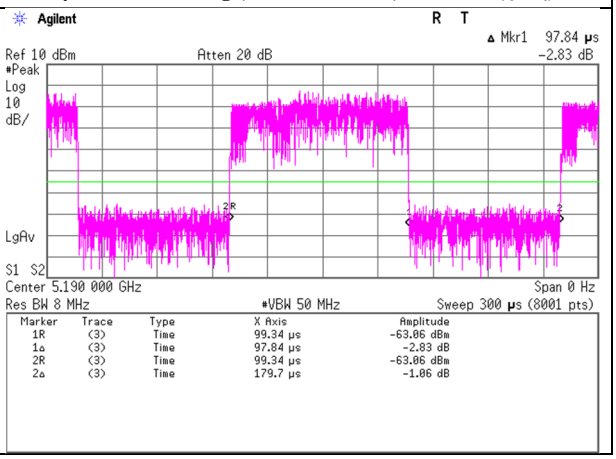
11n-40 MSC 5

Tx on / (Tx on + Tx off) =	**0.615**
Tx on / (Tx on + Tx off) * 100 =	**61.5 %**
Duty factor = 10 * log (0.2118 / 0.1303) =	**2.11 dB**



11ac-40 MCS 9

Tx on / (Tx on + Tx off) =	**0.544**
Tx on / (Tx on + Tx off) * 100 =	**54.4 %**
Duty factor = 10 * log (0.1797 / 0.09784) =	**2.64 dB**



11ac-80 MSC 7

Tx on / (Tx on + Tx off) =	**0.487**
Tx on / (Tx on + Tx off) * 100 =	**48.7 %**
Duty factor = 10 * log (0.1601 / 0.07796) =	**3.13 dB**