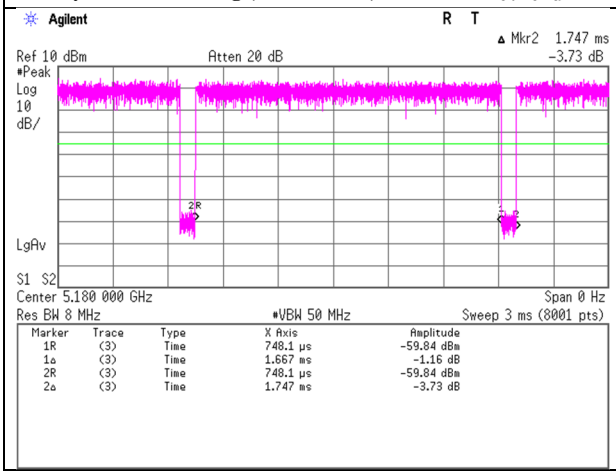
Burst rate confirmation

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

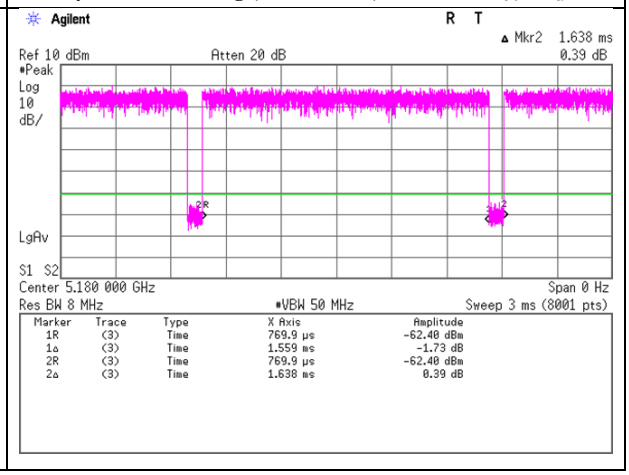
11a 6 Mbps

Tx on / (Tx on + Tx off) =	**0.954**
Tx on / (Tx on + Tx off) * 100 =	**95.4 %**
Duty factor = 10 * log (1.747 / 1.667) =	**0.20 dB**



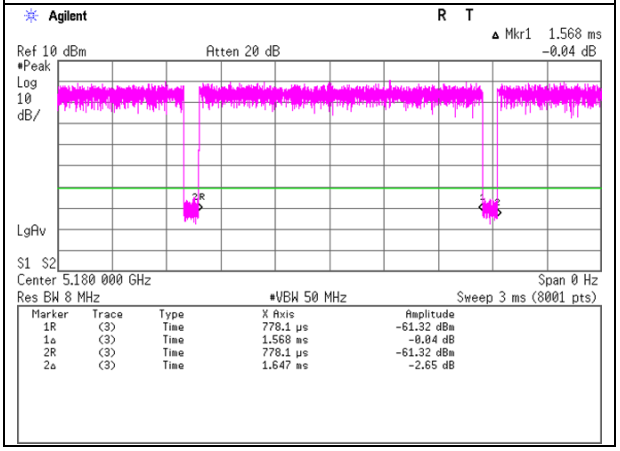
11n-20 MCS 0

Tx on / (Tx on + Tx off) =	**0.952**
Tx on / (Tx on + Tx off) * 100 =	**95.2 %**
Duty factor = 10 * log (1.638 / 1.559) =	**0.21 dB**



11ac-20 MSC 0

Tx on / (Tx on + Tx off) =	**0.952**
Tx on / (Tx on + Tx off) * 100 =	**95.2 %**
Duty factor = 10 * log (1.647 / 1.568) =	**0.21 dB**

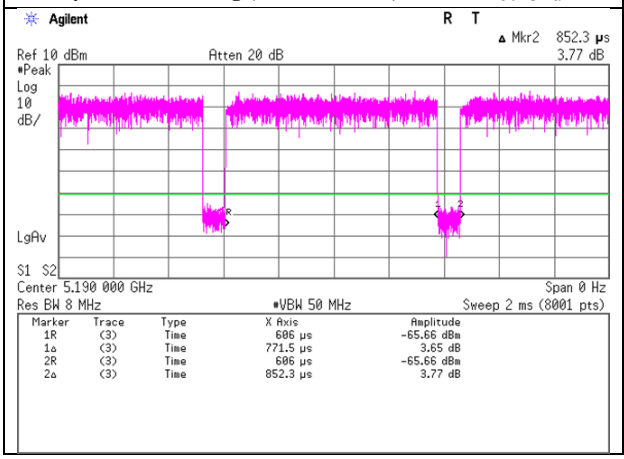


Burst rate confirmation

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

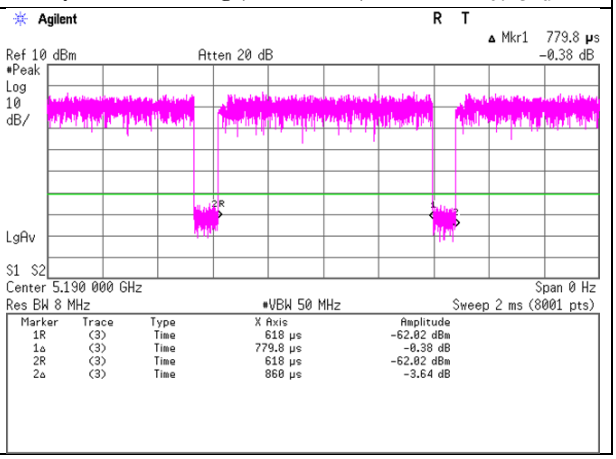
11n-40 MSC 0

Tx on / (Tx on + Tx off) =	**0.905**
Tx on / (Tx on + Tx off) * 100 =	**90.5 %**
Duty factor = 10 * log (0.8523 / 0.7715) =	**0.43 dB**



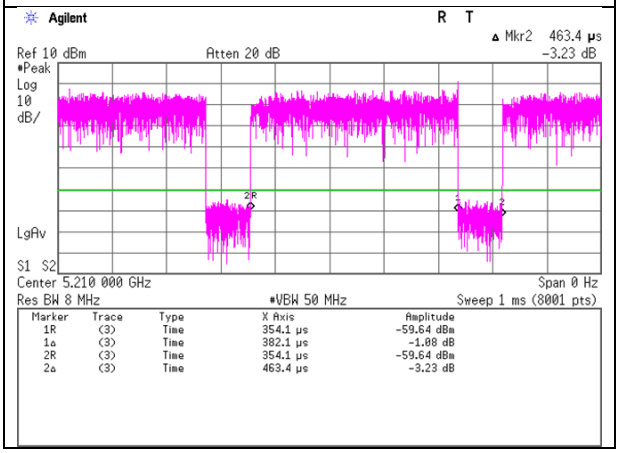
11ac-40 MCS 0

Tx on / (Tx on + Tx off) =	**0.907**
Tx on / (Tx on + Tx off) * 100 =	**90.7 %**
Duty factor = 10 * log (0.86 / 0.7798) =	**0.43 dB**



11ac-80 MSC 0

Tx on / (Tx on + Tx off) =	**0.825**
Tx on / (Tx on + Tx off) * 100 =	**82.5 %**
Duty factor = 10 * log (0.4634 / 0.3821) =	**0.84 dB**



Maximum Power Spectral Density

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11a	

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5180	-15.17	2.72	10.09	1.05	0.6	0.00	-1.31	11.00	12.31	-0.69	17.00	17.69
5220	-14.57	2.74	10.09	1.05	0.6	0.00	-0.69	11.00	11.69	-0.07	17.00	17.07
5240	-14.56	2.74	10.09	1.05	0.6	0.00	-0.68	11.00	11.68	-0.06	17.00	17.06
5260	-14.54	2.75	10.09	1.05	0.6	0.00	-0.65	11.00	11.65	-0.03	17.00	17.03
5300	-14.58	2.75	10.09	1.05	0.6	0.00	-0.69	11.00	11.69	-0.07	17.00	17.07
5320	-14.70	2.77	10.09	1.05	0.6	0.00	-0.79	11.00	11.79	-0.17	17.00	17.17
5500	-15.79	2.78	10.10	1.05	0.6	0.00	-1.86	11.00	12.86	-1.24	17.00	18.24
5580	-14.84	2.84	10.10	1.05	0.6	0.00	-0.85	11.00	11.85	-0.23	17.00	17.23
5700	-15.60	2.86	10.09	1.05	0.6	0.00	-1.60	11.00	12.60	-0.98	17.00	17.98
5745	-17.72	2.85	10.09	1.05	0.6	0.27	-3.46	30.00	33.46	-2.84	36.00	38.84
5785	-17.82	2.87	10.09	1.05	0.6	0.27	-3.54	30.00	33.54	-2.92	36.00	38.92
5825	-18.71	2.87	10.09	1.05	0.6	0.27	-4.43	30.00	34.43	-3.81	36.00	39.81

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11n-20	

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5180	-16.18	2.72	10.09	1.43	0.6	0.00	-1.93	11.00	12.93	-1.31	17.00	18.31
5220	-16.21	2.74	10.09	1.43	0.6	0.00	-1.94	11.00	12.94	-1.32	17.00	18.32
5240	-16.41	2.74	10.09	1.43	0.6	0.00	-2.14	11.00	13.14	-1.52	17.00	18.52
5260	-16.20	2.75	10.09	1.43	0.6	0.00	-1.93	11.00	12.93	-1.31	17.00	18.31
5300	-16.47	2.75	10.09	1.43	0.6	0.00	-2.20	11.00	13.20	-1.58	17.00	18.58
5320	-16.43	2.77	10.09	1.43	0.6	0.00	-2.14	11.00	13.14	-1.52	17.00	18.52
5500	-16.80	2.78	10.10	1.43	0.6	0.00	-2.49	11.00	13.49	-1.87	17.00	18.87
5580	-15.84	2.84	10.10	1.43	0.6	0.00	-1.47	11.00	12.47	-0.85	17.00	17.85
5700	-15.74	2.86	10.09	1.43	0.6	0.00	-1.36	11.00	12.36	-0.74	17.00	17.74
5745	-19.37	2.85	10.09	1.43	0.6	0.27	-4.73	30.00	34.73	-4.11	36.00	40.11
5785	-19.90	2.87	10.09	1.43	0.6	0.27	-5.24	30.00	35.24	-4.62	36.00	40.62
5825	-20.11	2.87	10.09	1.43	0.6	0.27	-5.45	30.00	35.45	-4.83	36.00	40.83

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11ac-20	

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5180	-15.91	2.72	10.09	1.40	0.6	0.00	-1.69	11.00	12.69	-1.07	17.00	18.07
5220	-15.80	2.74	10.09	1.40	0.6	0.00	-1.57	11.00	12.57	-0.95	17.00	17.95
5240	-16.25	2.74	10.09	1.40	0.6	0.00	-2.01	11.00	13.01	-1.39	17.00	18.39
5260	-16.19	2.75	10.09	1.40	0.6	0.00	-1.95	11.00	12.95	-1.33	17.00	18.33
5300	-16.17	2.75	10.09	1.40	0.6	0.00	-1.93	11.00	12.93	-1.31	17.00	18.31
5320	-16.06	2.77	10.09	1.40	0.6	0.00	-1.80	11.00	12.80	-1.18	17.00	18.18
5500	-16.46	2.78	10.10	1.40	0.6	0.00	-2.18	11.00	13.18	-1.56	17.00	18.56
5580	-15.38	2.84	10.10	1.40	0.6	0.00	-1.03	11.00	12.03	-0.41	17.00	17.41
5700	-15.96	2.86	10.09	1.40	0.6	0.00	-1.60	11.00	12.60	-0.98	17.00	17.98
5745	-18.22	2.85	10.09	1.40	0.6	0.27	-3.61	30.00	33.61	-2.99	36.00	38.99
5785	-18.62	2.87	10.09	1.40	0.6	0.27	-3.99	30.00	33.99	-3.37	36.00	39.37
5825	-19.18	2.87	10.09	1.40	0.6	0.27	-4.55	30.00	34.55	-3.93	36.00	39.93

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11n-40	

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5190	-22.45	2.73	10.09	2.11	0.6	0.00	-7.52	11.00	18.52	-6.90	17.00	23.90
5230	-22.43	2.75	10.09	2.11	0.6	0.00	-7.48	11.00	18.48	-6.86	17.00	23.86
5270	-22.04	2.75	10.09	2.11	0.6	0.00	-7.09	11.00	18.09	-6.47	17.00	23.47
5310	-21.47	2.75	10.09	2.11	0.6	0.00	-6.52	11.00	17.52	-5.90	17.00	22.90
5510	-22.31	2.77	10.10	2.11	0.6	0.00	-7.33	11.00	18.33	-6.71	17.00	23.71
5550	-21.60	2.82	10.10	2.11	0.6	0.00	-6.57	11.00	17.57	-5.95	17.00	22.95
5670	-22.09	2.85	10.09	2.11	0.6	0.00	-7.04	11.00	18.04	-6.42	17.00	23.42
5755	-24.82	2.90	10.09	2.11	0.6	0.27	-9.46	30.00	39.46	-8.84	36.00	44.84
5795	-25.07	2.87	10.09	2.11	0.6	0.27	-9.73	30.00	39.73	-9.11	36.00	45.11

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11ac-40	

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5190	-23.05	2.73	10.09	2.64	0.6	0.00	-7.59	11.00	18.59	-6.97	17.00	23.97
5230	-22.90	2.75	10.09	2.64	0.6	0.00	-7.42	11.00	18.42	-6.80	17.00	23.80
5270	-22.15	2.75	10.09	2.64	0.6	0.00	-6.67	11.00	17.67	-6.05	17.00	23.05
5310	-21.97	2.75	10.09	2.64	0.6	0.00	-6.48	11.00	17.48	-5.86	17.00	22.86
5510	-22.71	2.77	10.10	2.64	0.6	0.00	-7.20	11.00	18.20	-6.58	17.00	23.58
5550	-22.17	2.82	10.10	2.64	0.6	0.00	-6.61	11.00	17.61	-5.99	17.00	22.99
5670	-22.57	2.85	10.09	2.64	0.6	0.00	-6.99	11.00	17.99	-6.37	17.00	23.37
5755	-25.76	2.90	10.09	2.64	0.6	0.27	-9.86	30.00	39.86	-9.24	36.00	45.24
5795	-25.52	2.87	10.09	2.64	0.6	0.27	-9.65	30.00	39.65	-9.03	36.00	45.03

Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11ac-80	

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5210	-24.13	2.73	10.09	3.13	0.6	0.00	-8.18	11.00	19.18	-7.56	17.00	24.56
5290	-24.42	2.75	10.09	3.13	0.6	0.00	-8.45	11.00	19.45	-7.83	17.00	24.83
5530	-25.64	2.78	10.10	3.13	0.6	0.00	-9.64	11.00	20.64	-9.02	17.00	26.02
5775	-28.88	2.89	10.09	3.13	0.6	0.27	-12.51	30.00	42.51	-11.89	36.00	47.89

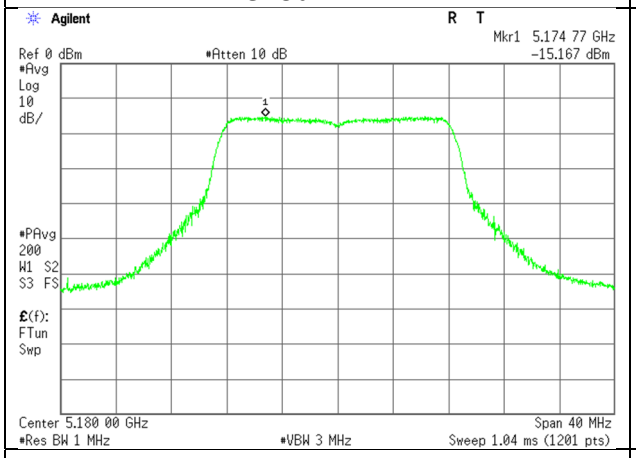
Sample Calculation:
PSD: Power Spectral Density
The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

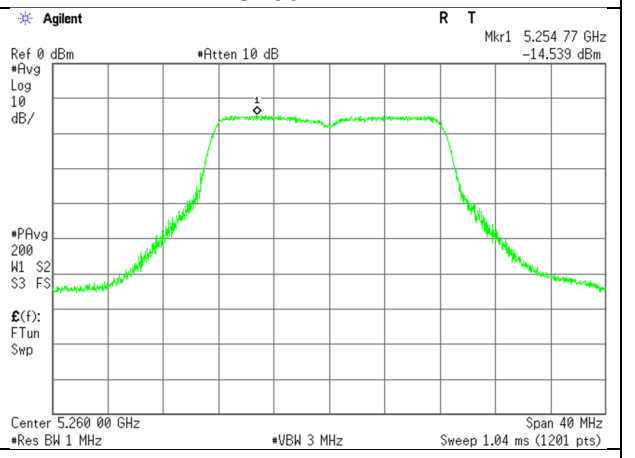
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11a	

11a

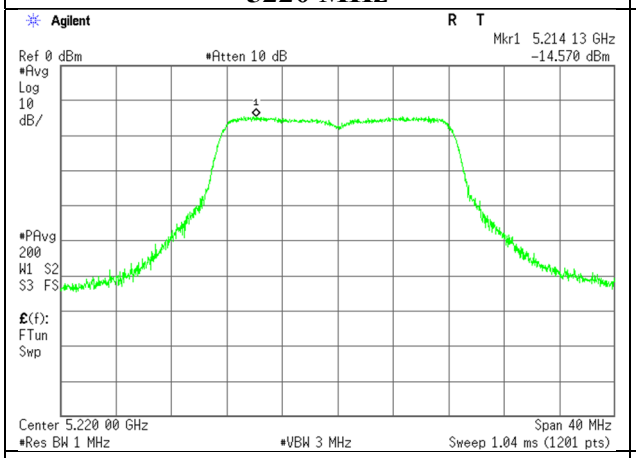
5180 MHz



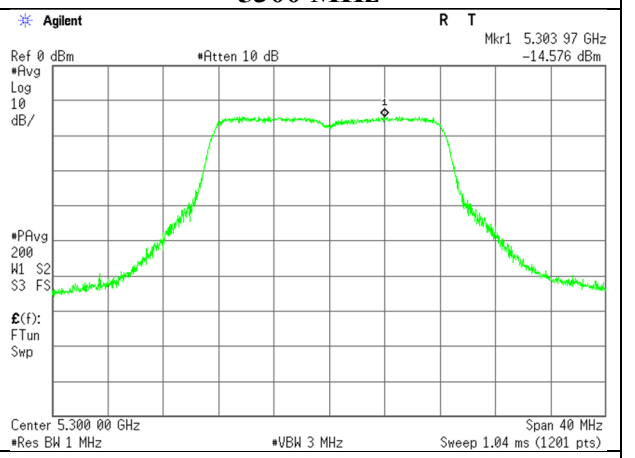
5260 MHz



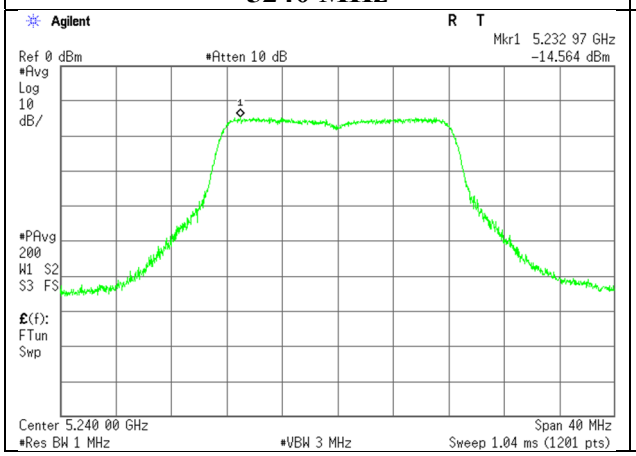
5220 MHz



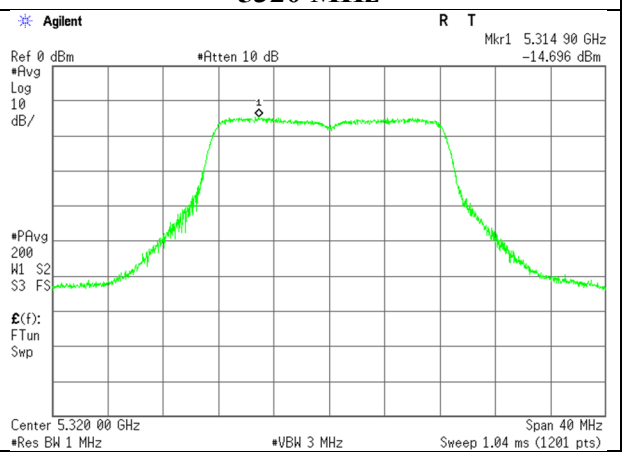
5300 MHz



5240 MHz



5320 MHz

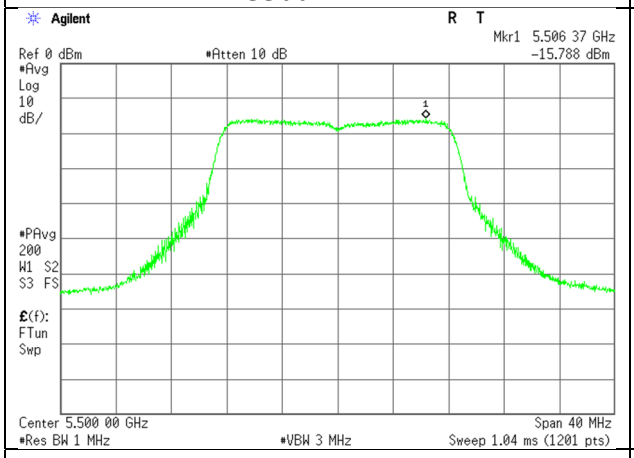


Maximum Power Spectral Density

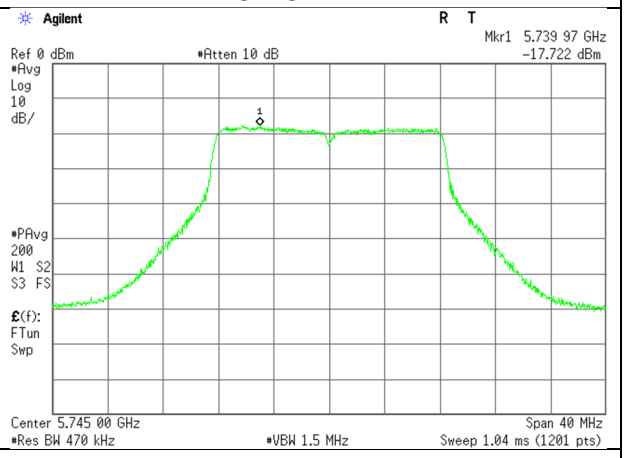
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11a	

11a

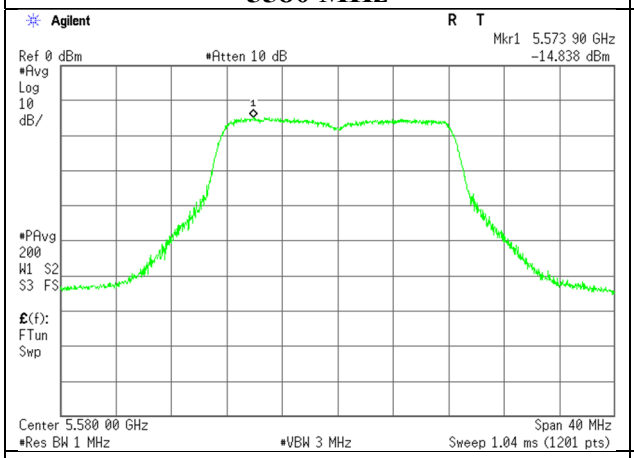
5500 MHz



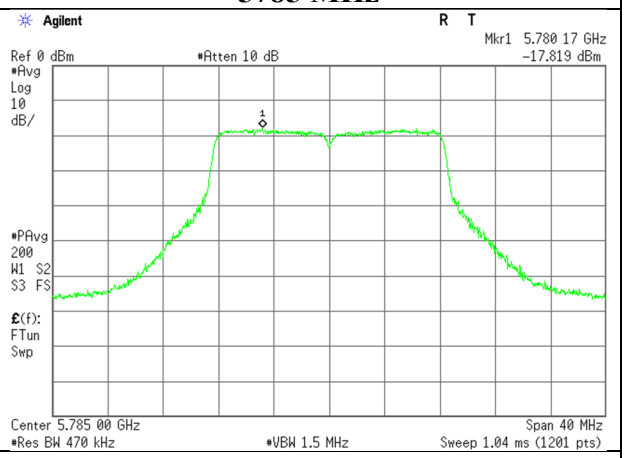
5745 MHz



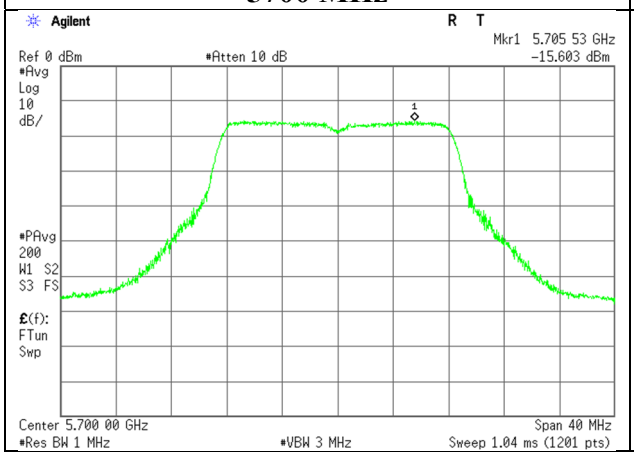
5580 MHz



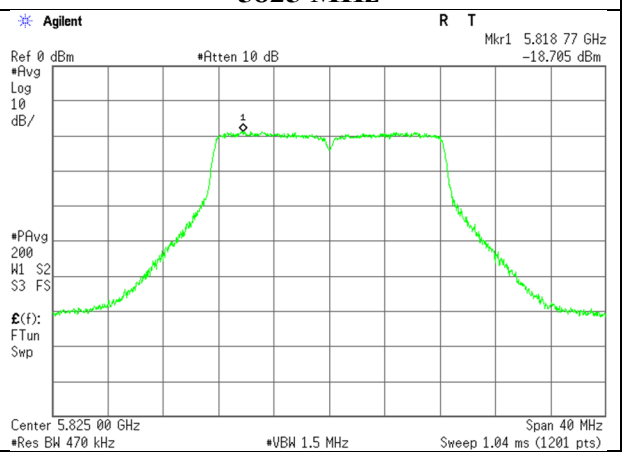
5785 MHz



5700 MHz



5825 MHz

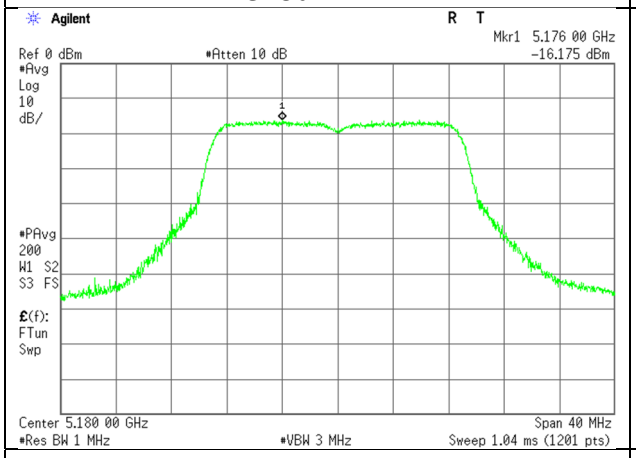


Maximum Power Spectral Density

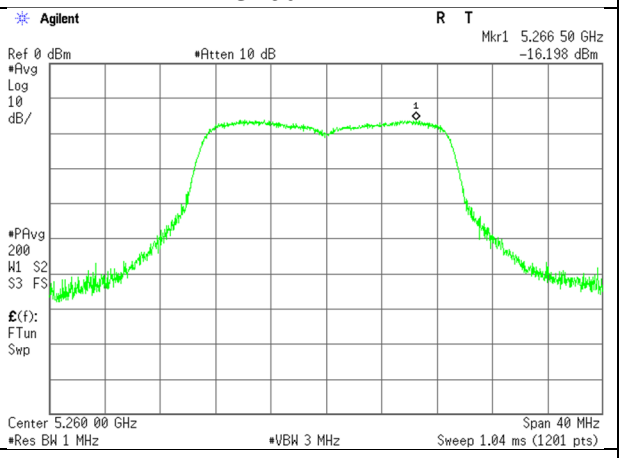
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11n-20	

11n-20

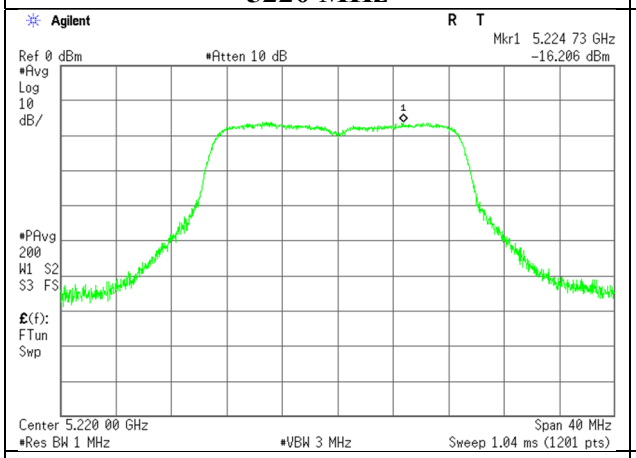
5180 MHz



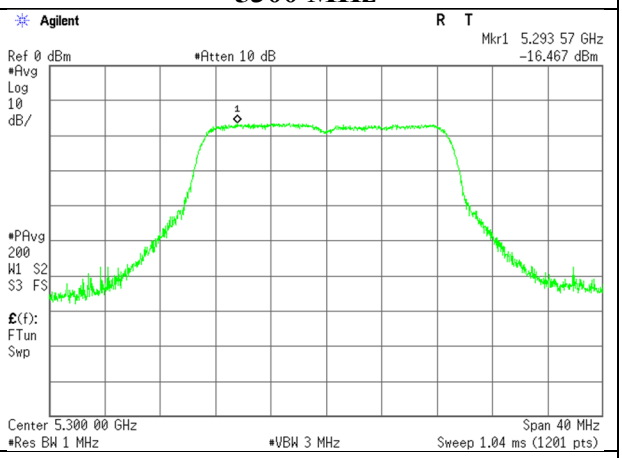
5260 MHz



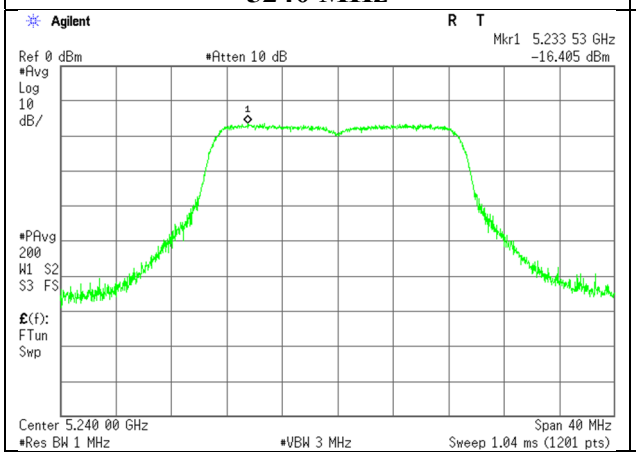
5220 MHz



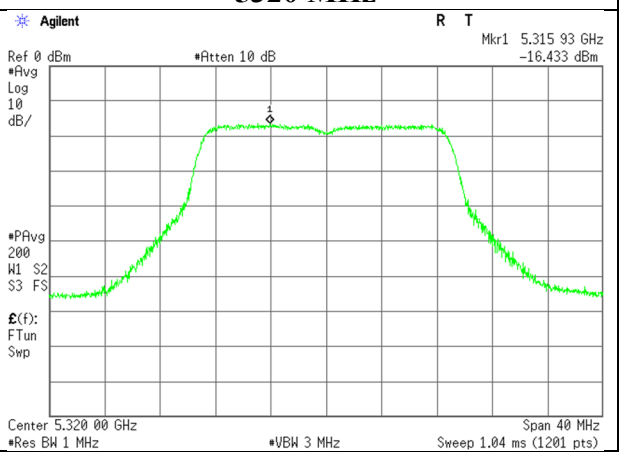
5300 MHz



5240 MHz



5320 MHz

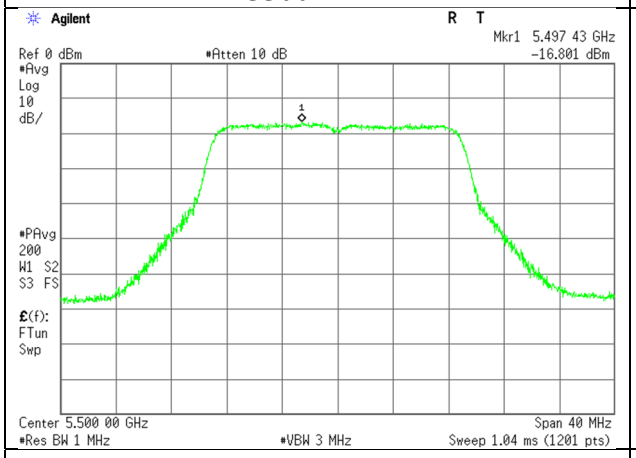


Maximum Power Spectral Density

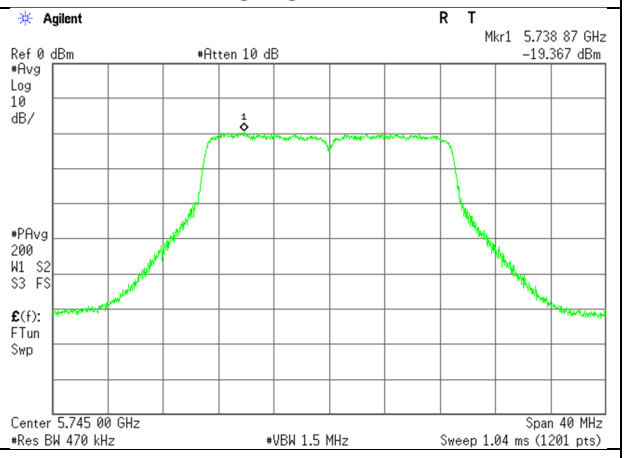
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11n-20	

11n-20

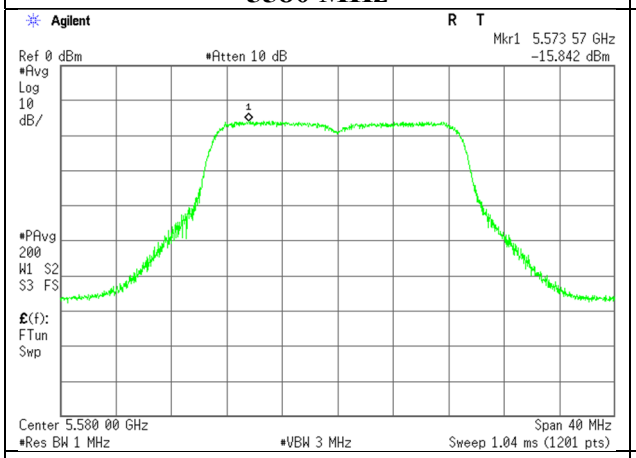
5500 MHz



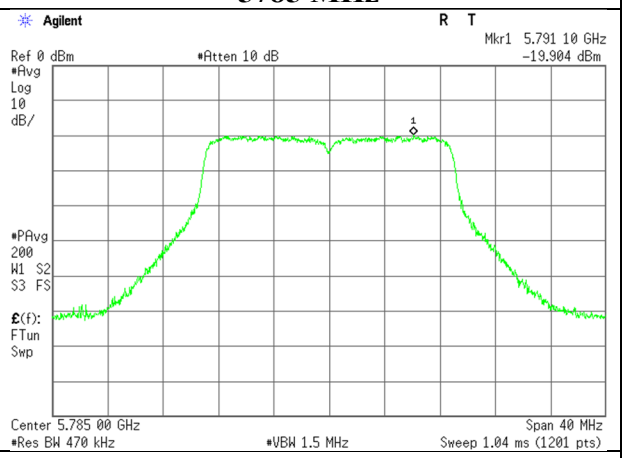
5745 MHz



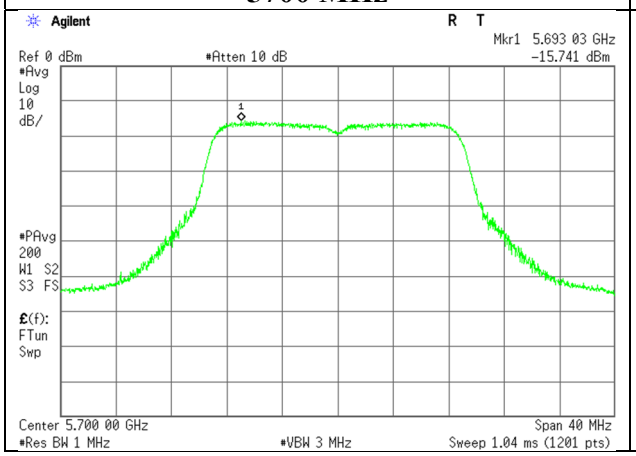
5580 MHz



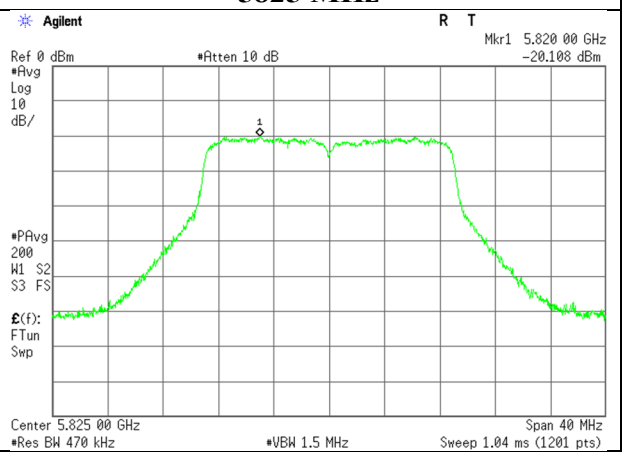
5785 MHz



5700 MHz



5825 MHz

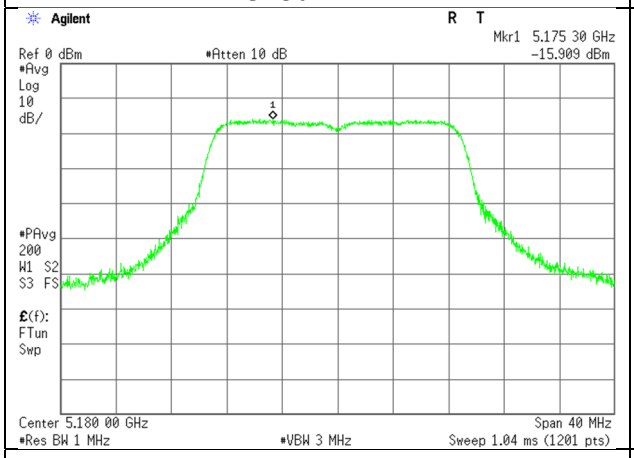


Maximum Power Spectral Density

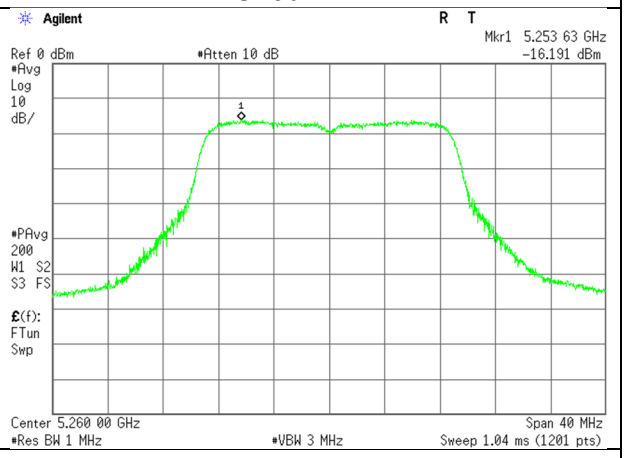
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11ac-20	

11ac-20

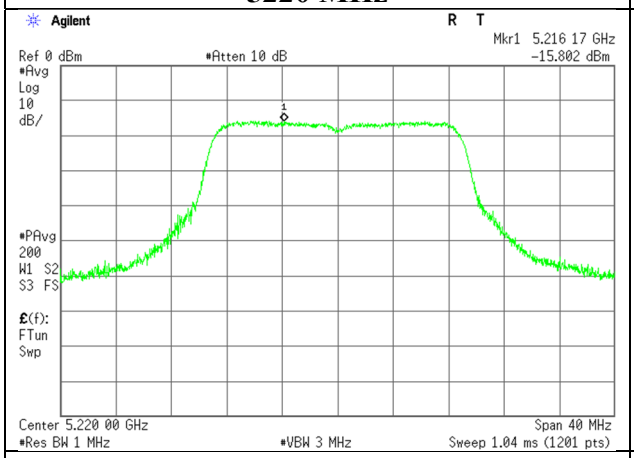
5180 MHz



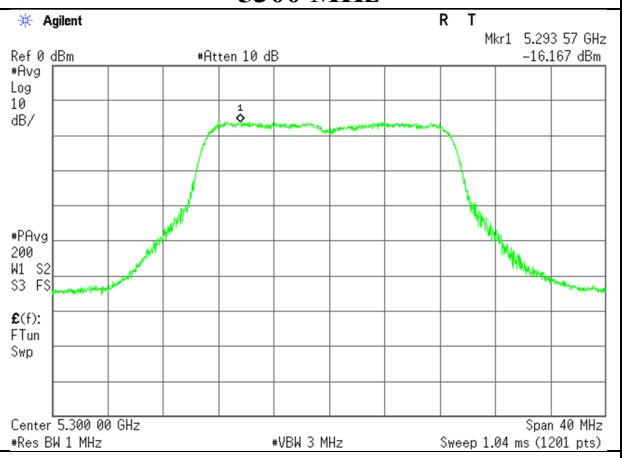
5260 MHz



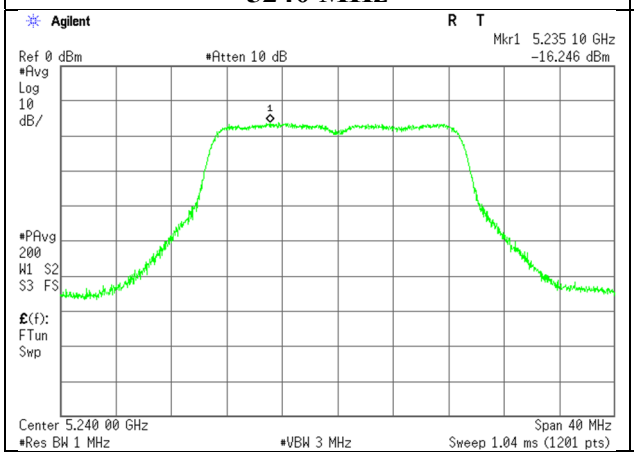
5220 MHz



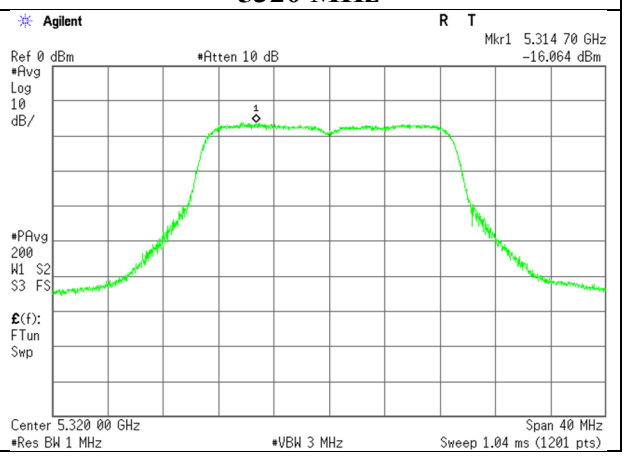
5300 MHz



5240 MHz



5320 MHz

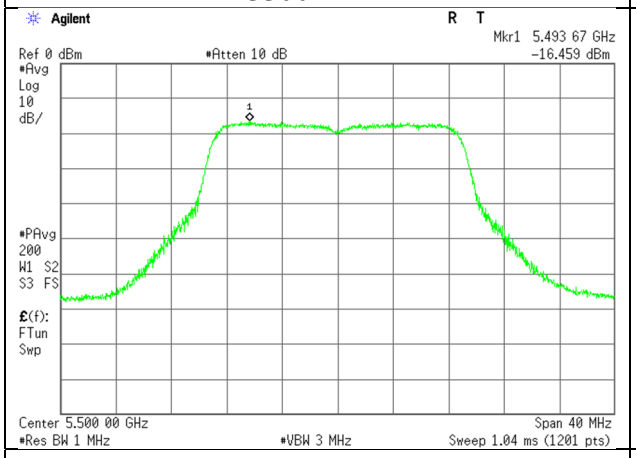


Maximum Power Spectral Density

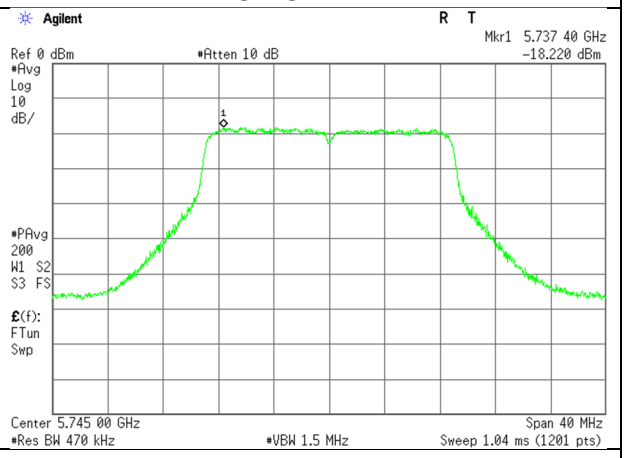
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11ac-20	

11ac-20

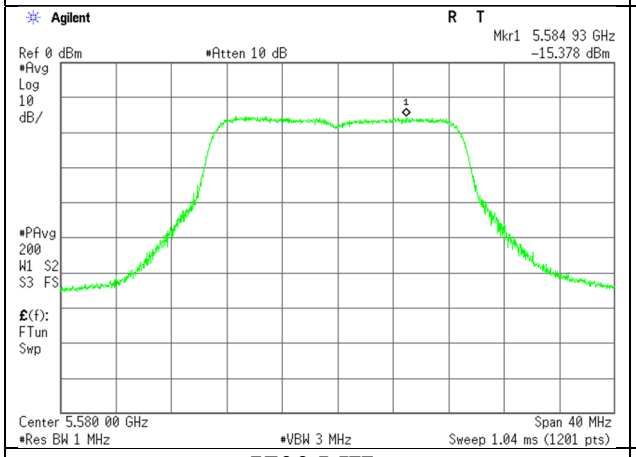
5500 MHz



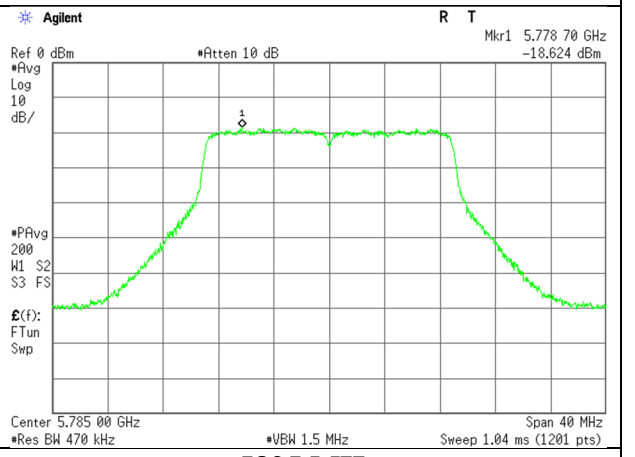
5745 MHz



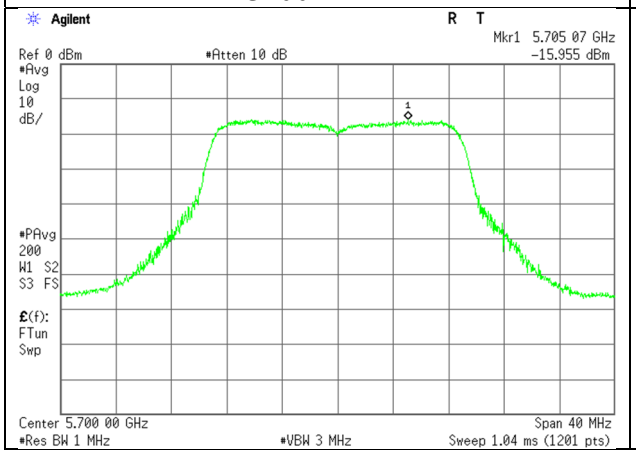
5580 MHz



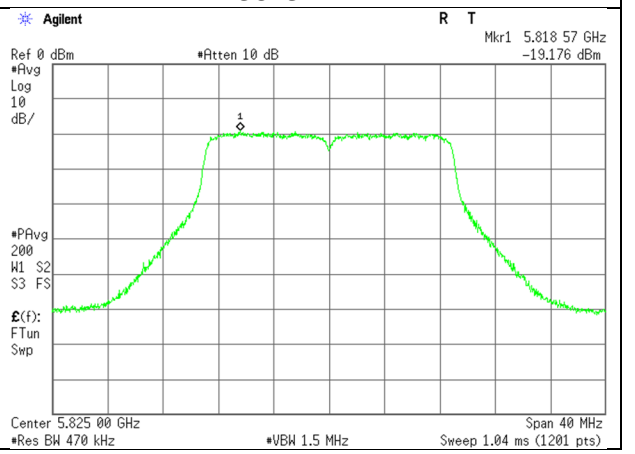
5785 MHz



5700 MHz



5825 MHz

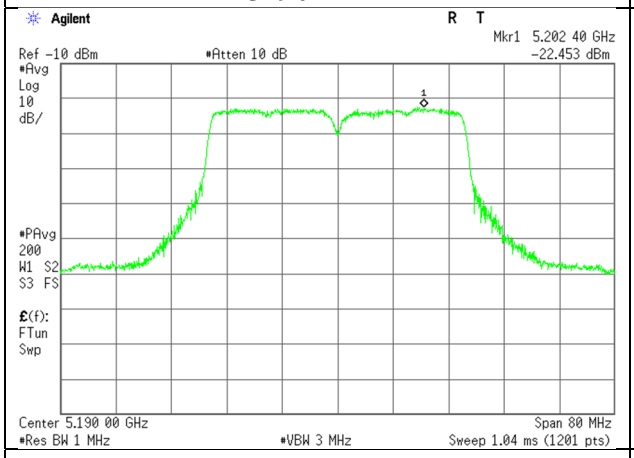


Maximum Power Spectral Density

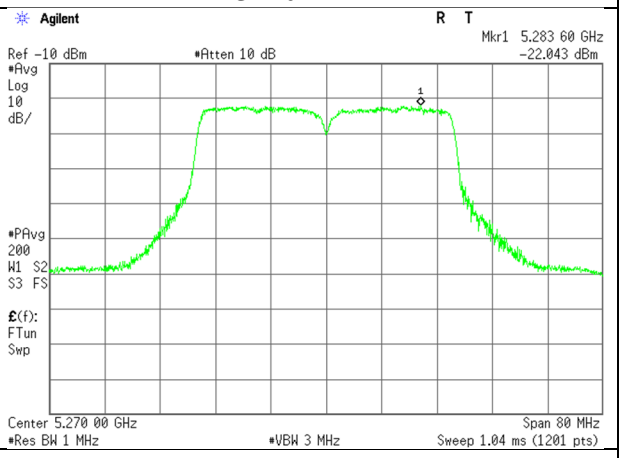
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11n-40	

11n-40

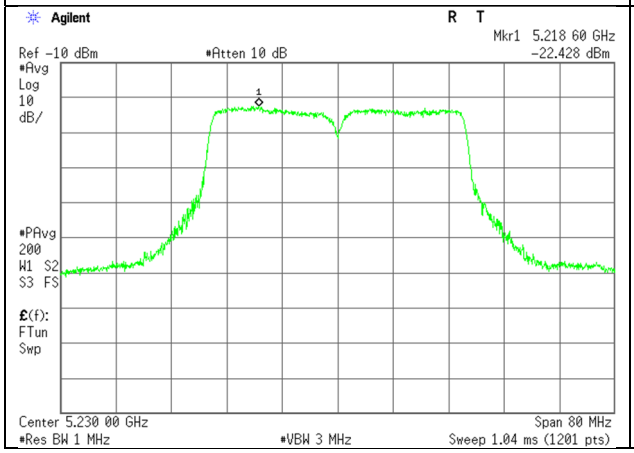
5190 MHz



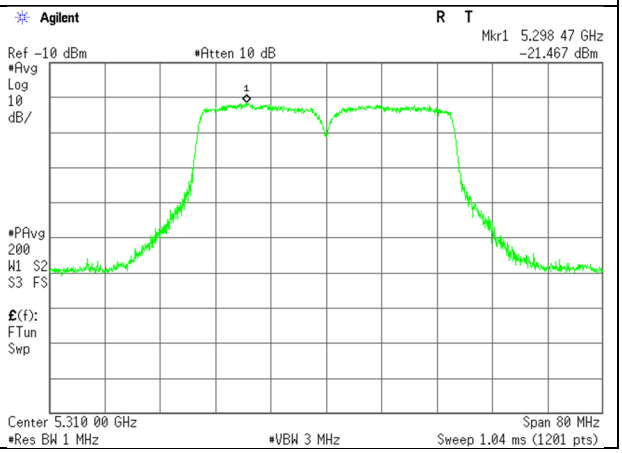
5270 MHz



5230 MHz



5310 MHz

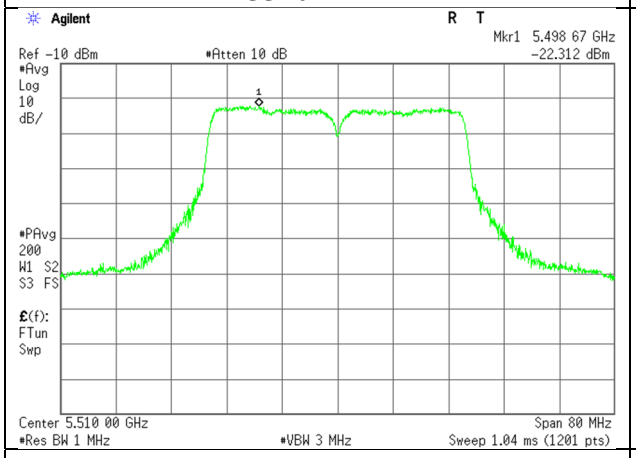


Maximum Power Spectral Density

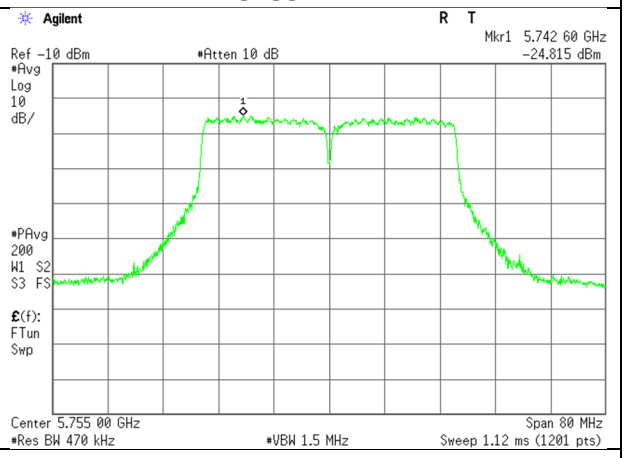
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11n-40	

11n-40

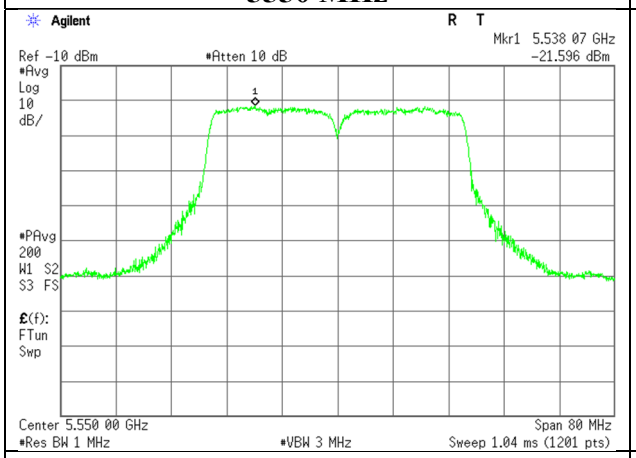
5510 MHz



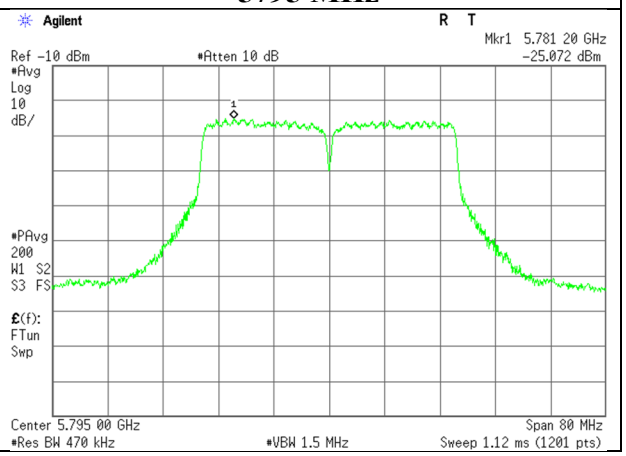
5755 MHz



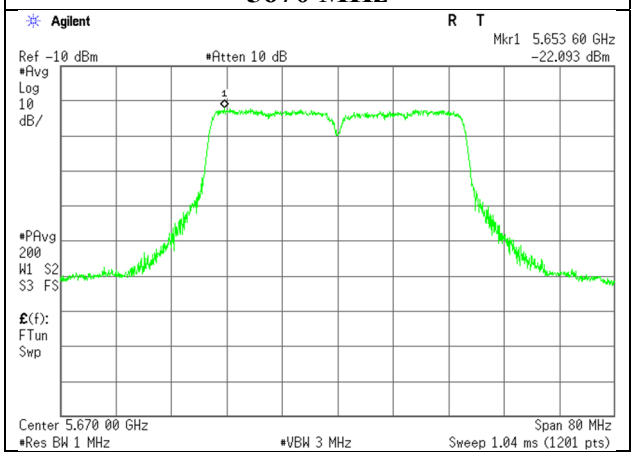
5550 MHz



5795 MHz



5670 MHz

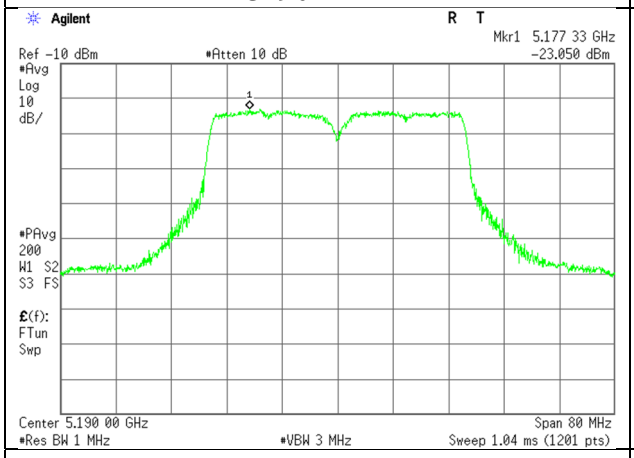


Maximum Power Spectral Density

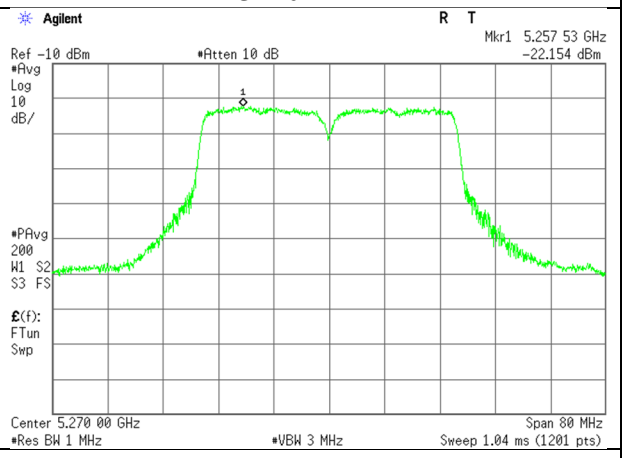
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11ac-40	

11ac-40

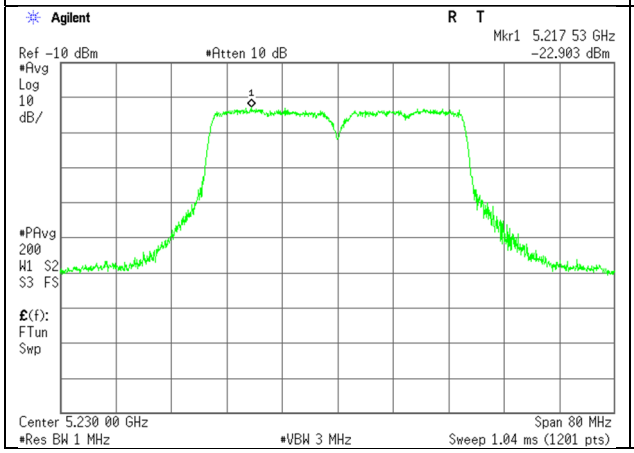
5190 MHz



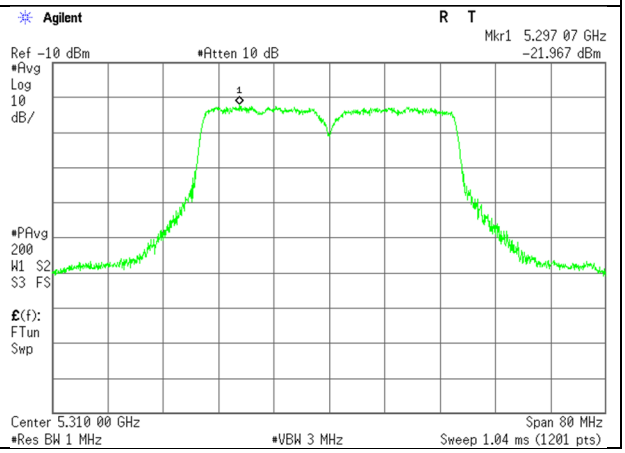
5270 MHz



5230 MHz



5310 MHz

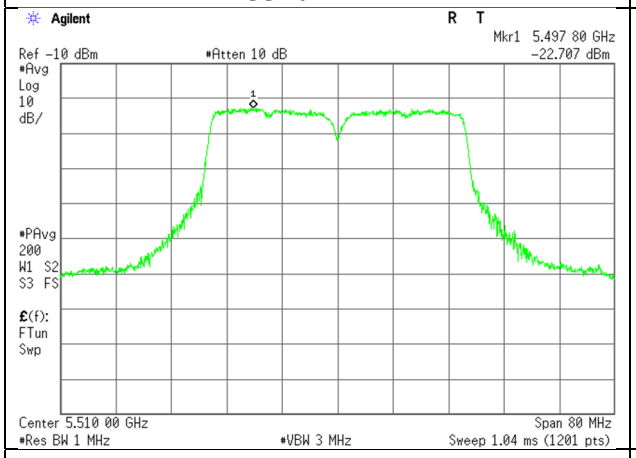


Maximum Power Spectral Density

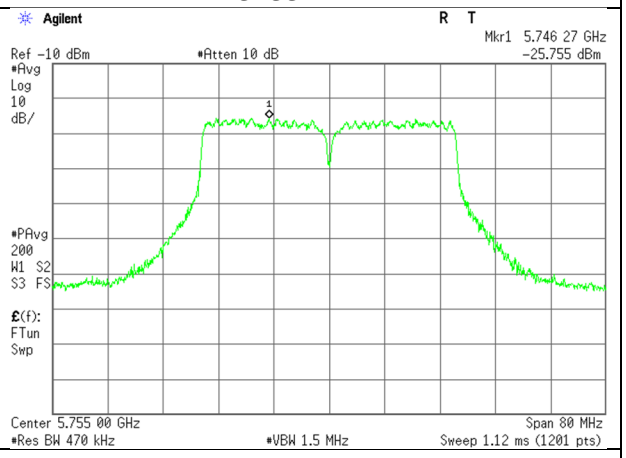
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11ac-40	

11ac-40

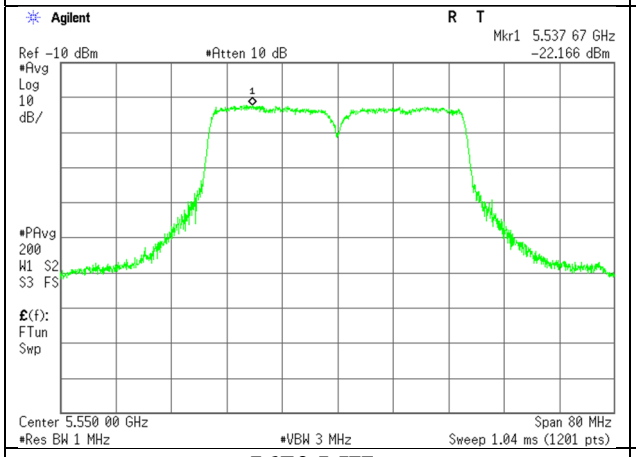
5510 MHz



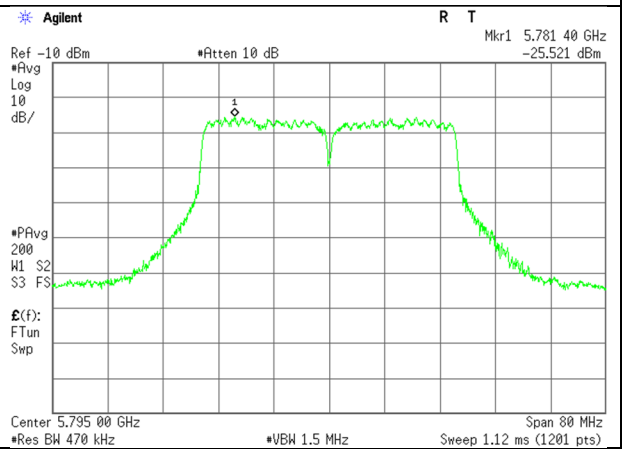
5755 MHz



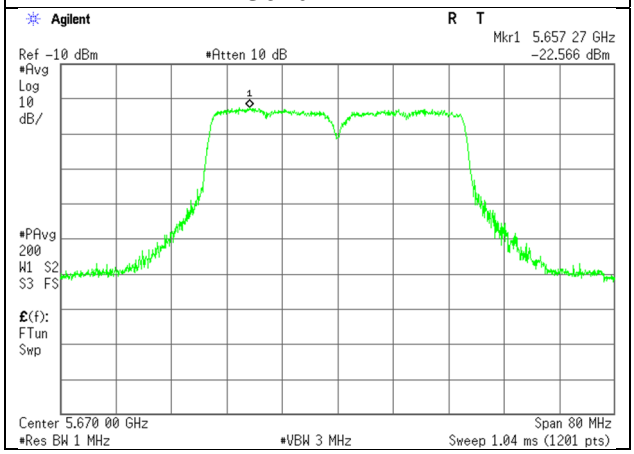
5550 MHz



5795 MHz



5670 MHz

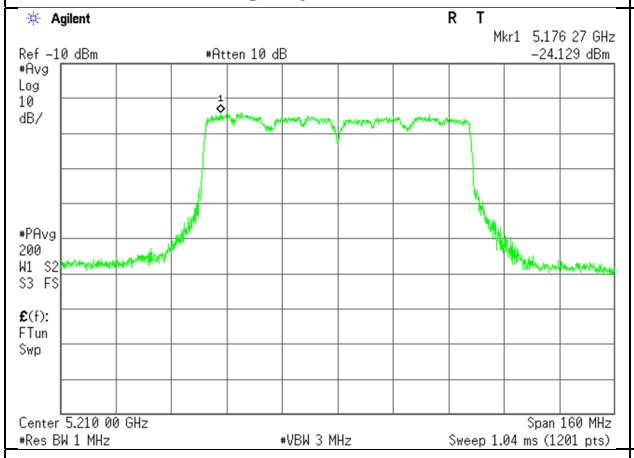


Maximum Power Spectral Density

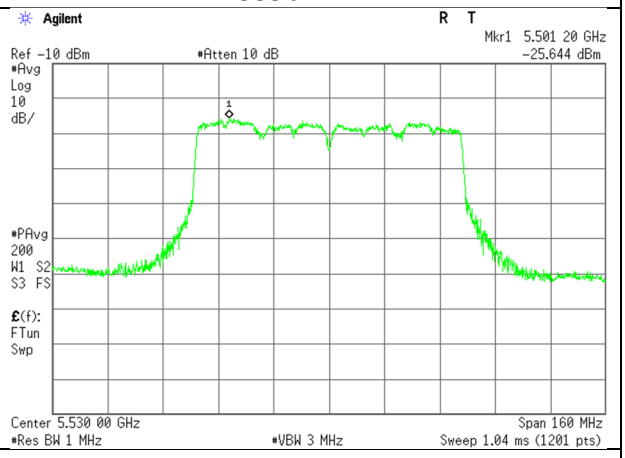
Report No.	14118411H	
Test place	Ise EMC Lab. No.8 Measurement Room	
Date	December 17, 2021	December 20, 2021
Temperature / Humidity	22deg. C / 35 % RH	22deg. C / 28 % RH
Engineer	Nachi Konegawa	Nachi Konegawa
Mode	Tx 11ac-80	

11ac-80

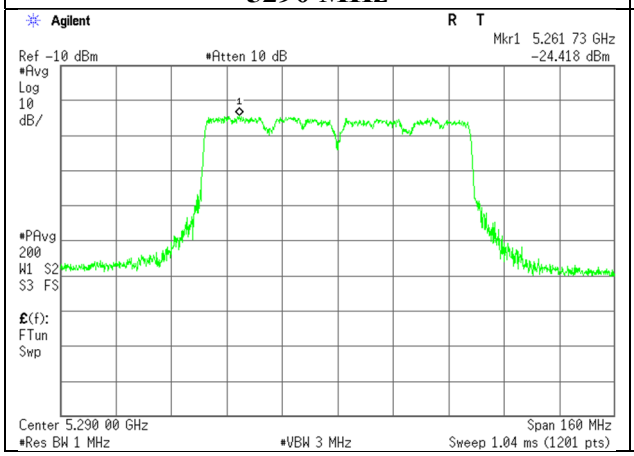
5210 MHz



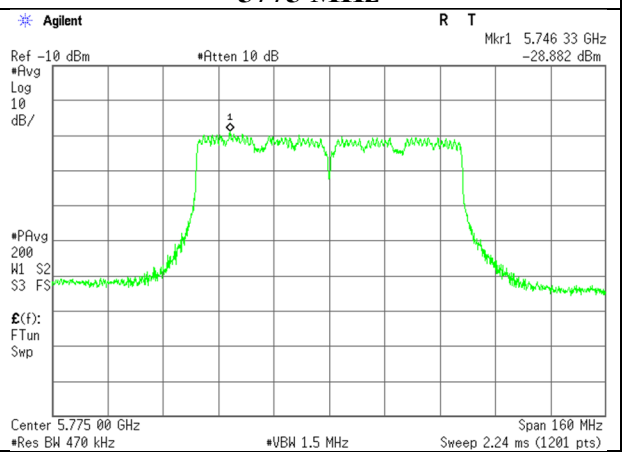
5530 MHz



5290 MHz



5775 MHz



Radiated Spurious Emission

Report No.	14118411H				
Test place	Ise EMC Lab.				
Semi Anechoic Chamber	No.3	No.3	No.3	No.3	No.4
Date	December 7, 2021	December 9, 2021 (Day)	December 9, 2021 (Night)	December 10, 2021	December 18, 2021
Temperature / Humidity	23 deg. C / 43 % RH	22 deg. C / 45 % RH	24 deg. C / 43 % RH	22 deg. C / 40 % RH	21 deg. C / 38 % RH
Engineer	Nachi Konegawa	Hiroki Numata	Takumi Nishida	Hiroki Numata	Nachi Konegawa
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)	(Below 1 GHz)
Mode	Tx 11a 5180 MHz				

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	37.7	21.6	-	15.8	7.1	32.0	-	12.4	-	40.0	-	27.6	-	Floor noise
Hori.	53.7	22.0	-	9.8	7.3	32.0	-	7.2	-	40.0	-	32.9	-	Floor noise
Hori.	141.4	21.7	-	14.5	8.2	32.0	-	12.5	-	43.5	-	31.0	-	Floor noise
Hori.	244.9	22.3	-	11.8	9.0	31.9	-	11.2	-	46.0	-	34.8	-	Floor noise
Hori.	500.0	26.9	-	18.0	10.7	32.0	-	23.6	-	46.0	-	22.4	-	
Hori.	729.6	22.0	-	20.2	11.6	32.0	-	21.9	-	46.0	-	24.2	-	Floor noise
Hori.	5150.0	45.6	36.2	31.9	6.2	31.6	1.1	52.1	43.7	73.9	53.9	21.8	10.2	*1)
Hori.	10360.0	41.5	-	39.9	-2.4	33.3	-	45.8	-	68.2	-	22.4	-	Floor noise
Hori.	15540.0	42.1	35.0	37.6	0.3	32.3	-	47.8	40.7	73.9	53.9	26.1	13.2	Floor noise
Vert.	37.7	21.5	-	15.8	7.1	32.0	-	12.3	-	40.0	-	27.7	-	Floor noise
Vert.	53.7	22.2	-	9.8	7.3	32.0	-	7.3	-	40.0	-	32.7	-	Floor noise
Vert.	141.4	21.8	-	14.5	8.2	32.0	-	12.6	-	43.5	-	30.9	-	Floor noise
Vert.	244.9	22.2	-	11.8	9.0	31.9	-	11.1	-	46.0	-	34.9	-	Floor noise
Vert.	500.0	29.3	-	18.0	10.7	32.0	-	26.0	-	46.0	-	20.0	-	
Vert.	729.6	22.1	-	20.2	11.6	32.0	-	22.0	-	46.0	-	24.1	-	Floor noise
Vert.	5150.0	45.1	35.7	31.9	6.2	31.6	1.1	51.6	43.3	73.9	53.9	22.3	10.6	*1)
Vert.	10360.0	41.5	-	39.9	-2.4	33.3	-	45.8	-	68.2	-	22.5	-	Floor noise
Vert.	15540.0	42.2	35.6	37.6	0.3	32.3	-	47.8	41.3	73.9	53.9	26.1	12.7	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

*1) Not Out of Band emission(Leakage Power)

Distance factor: 1 GHz - 10 GHz 20log (3.95 m / 3.0 m) = 2.39 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB