

Maximum Power Spectral Density

11ax-40 (OFDMA)
242-tone RU 5310 MHz

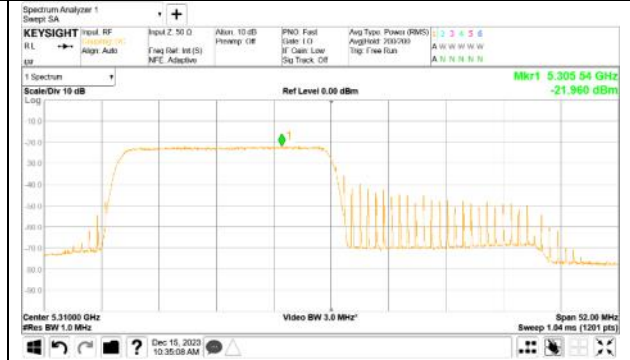
ANT0

RU Index 61

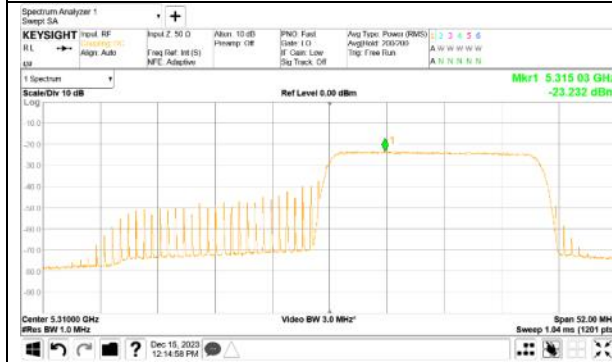


ANT1

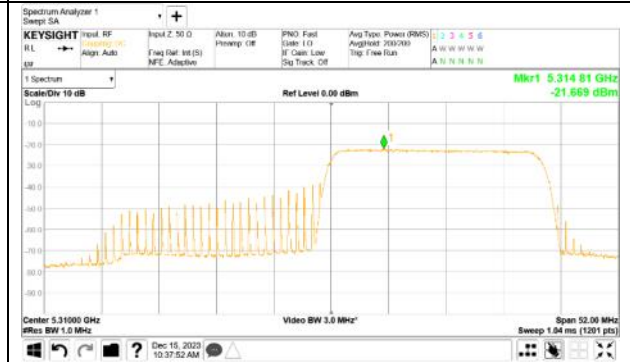
RU Index 61



RU Index 62



RU Index 62

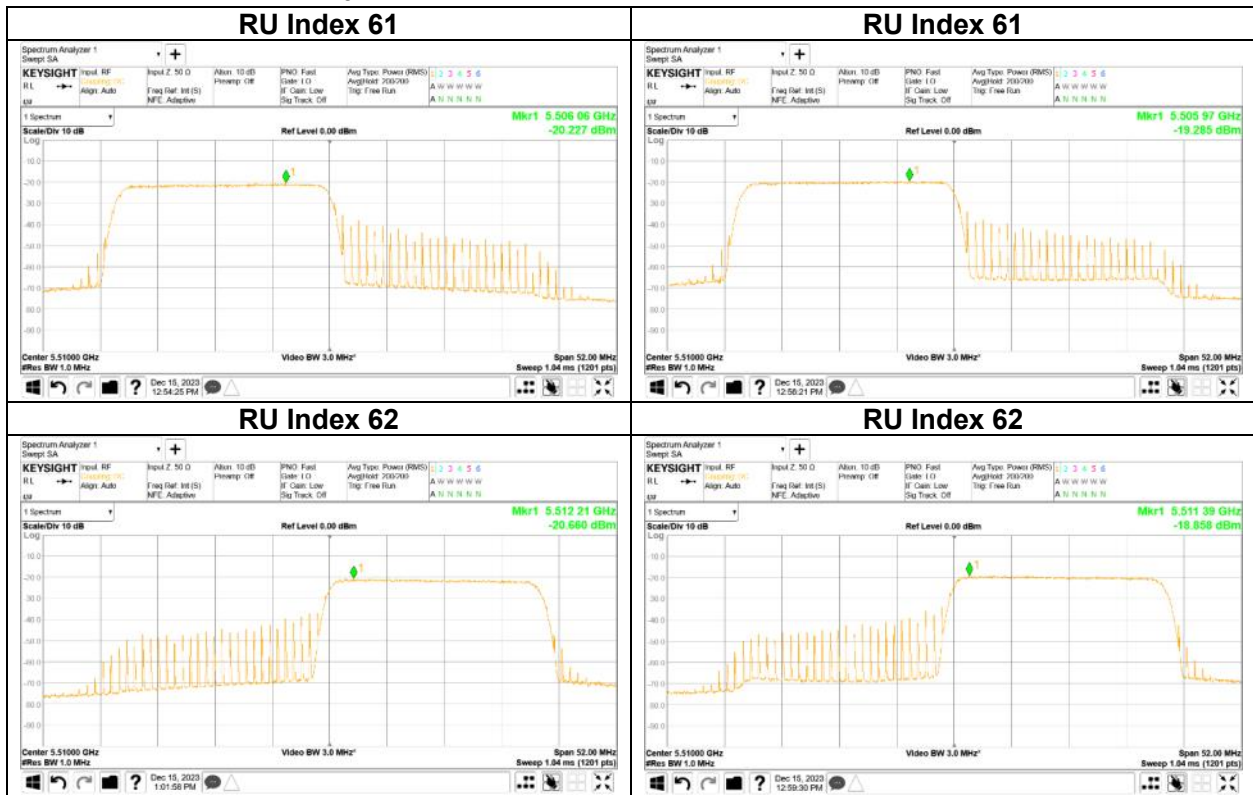


Maximum Power Spectral Density

11ax-40 (OFDMA)
242-tone RU 5510 MHz

ANT0

ANT1

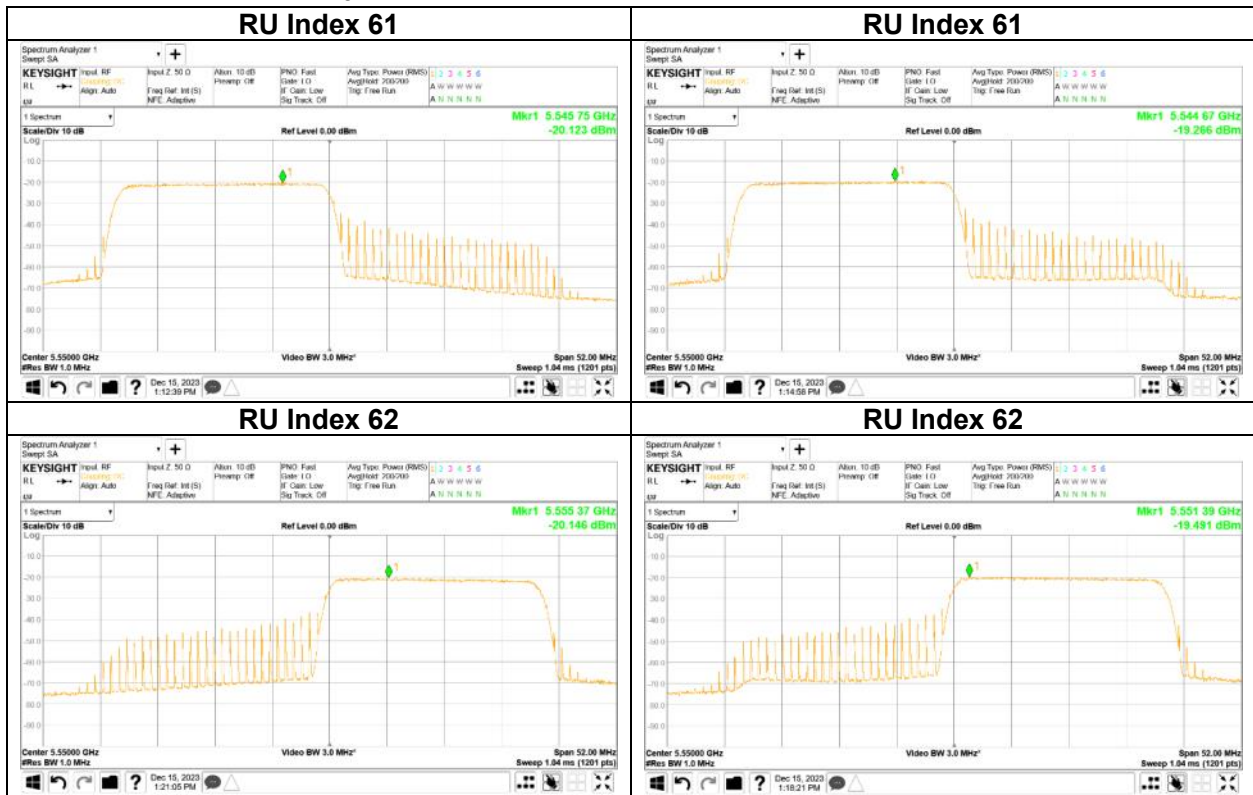


Maximum Power Spectral Density

11ax-40 (OFDMA)
242-tone RU 5550 MHz

ANT0

ANT1

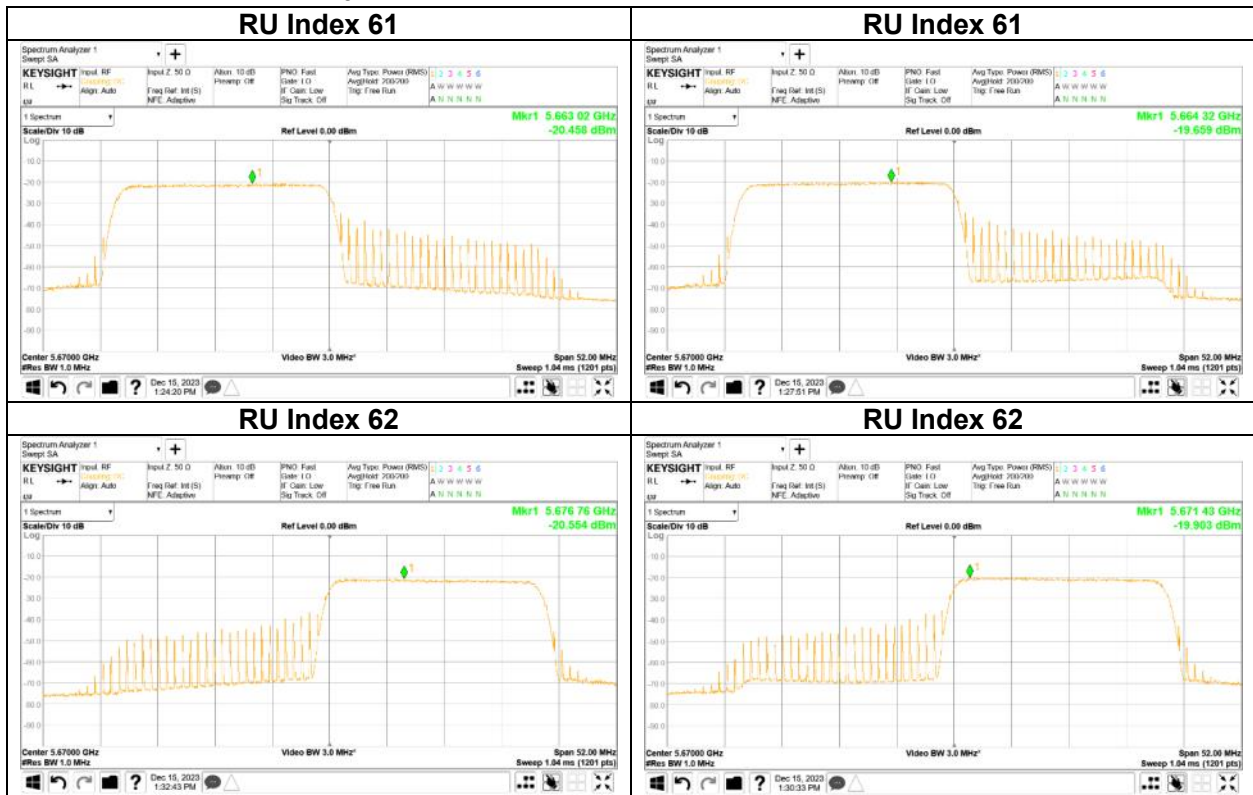


Maximum Power Spectral Density

11ax-40 (OFDMA)
242-tone RU 5670 MHz

ANT0

ANT1

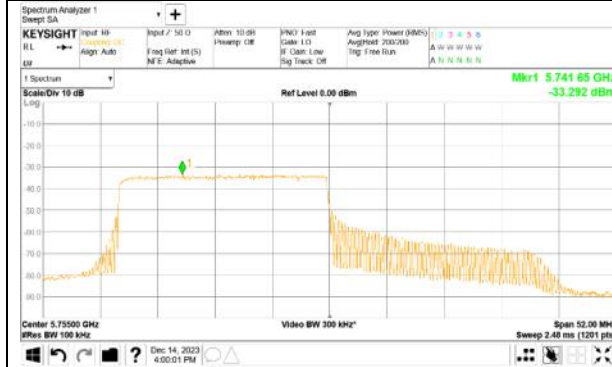


Maximum Power Spectral Density

11ax-40 (OFDMA)
242-tone RU 5755 MHz

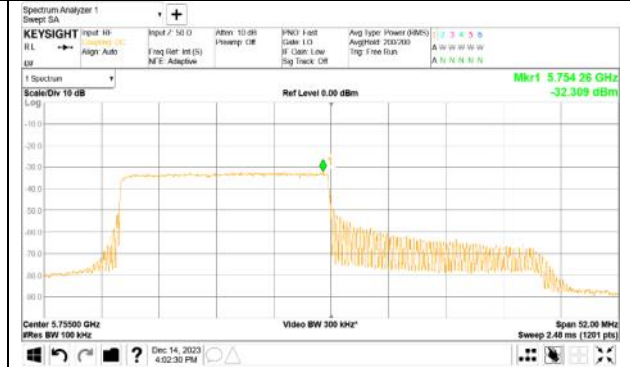
ANT0

RU Index 61

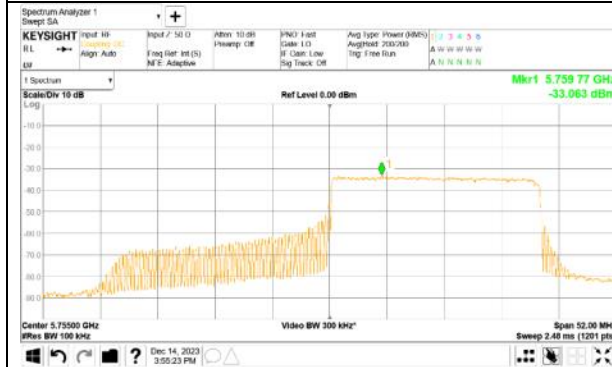


ANT1

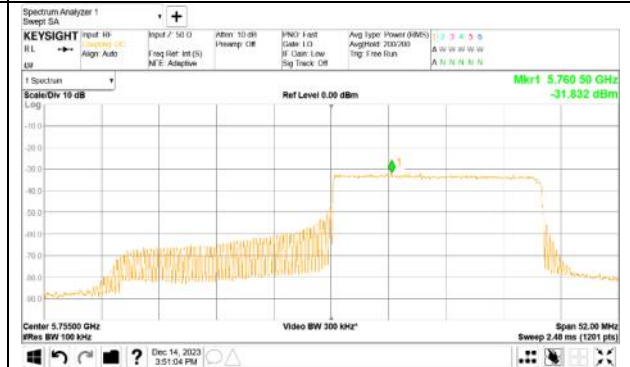
RU Index 61



RU Index 62



RU Index 62

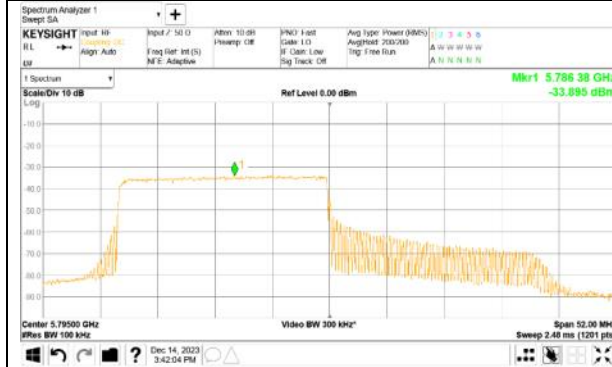


Maximum Power Spectral Density

11ax-40 (OFDMA)
242-tone RU 5795 MHz

ANT0

RU Index 61

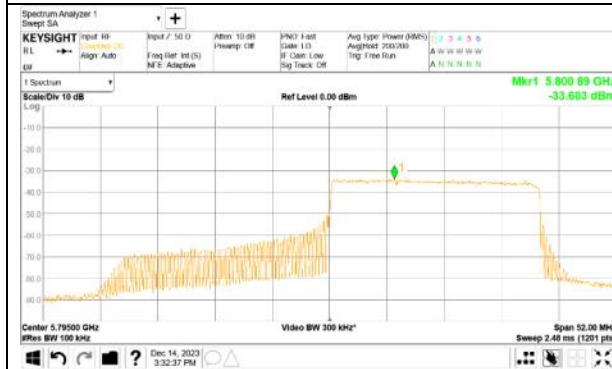


ANT1

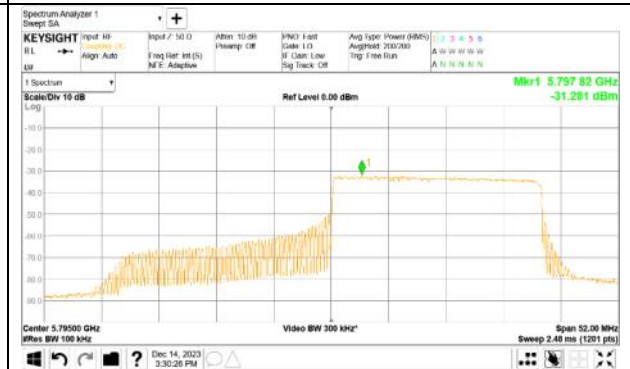
RU Index 61



RU Index 62



RU Index 62



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date December 15, 2023 January 5, 2024
Temperature / Humidity 23 deg.C / 33 %RH 22 deg.C / 27 %RH
Engineer Miku Ikudome Makoto Hosaka
Mode Tx 11ax-40 (OFDMA) 484-tone RU

ANT0 + ANT1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	PSD (Conducted)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		ANT0	ANT1	Sum				ANT0	ANT1	Sum			
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5190	65	0.10	0.15	0.25	-6.02	8.84	14.86	0.65	0.98	1.64	2.14	17.00	14.86
5230	65	0.10	0.16	0.27	-5.74	8.84	14.58	0.68	1.07	1.75	2.42	17.00	14.58
5270	65	0.09	0.15	0.24	-6.17	8.84	15.01	0.61	0.97	1.58	1.99	17.00	15.01
5310	65	0.09	0.14	0.22	-6.53	8.84	15.37	0.57	0.89	1.46	1.63	17.00	15.37
5510	65	0.19	0.29	0.49	-3.14	10.45	13.59	0.87	1.32	2.19	3.41	17.00	13.59
5550	65	0.19	0.23	0.42	-3.75	10.45	14.20	0.86	1.04	1.90	2.80	17.00	14.20
5670	65	0.18	0.21	0.39	-4.05	10.45	14.50	0.81	0.96	1.78	2.50	17.00	14.50
5755	65	0.05	0.07	0.11	-9.52	29.93	39.45	0.19	0.26	0.45	-3.45	36.00	39.45
5795	65	0.05	0.07	0.11	-9.46	29.93	39.39	0.19	0.27	0.46	-3.39	36.00	39.39

Tested Frequency [MHz]	RU Index	ANT0								ANT1							
		Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.		
		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]		
5190	65	0.00	0.00	-23.04	3.05	9.98	8.16	-10.02	-1.86	-21.38	3.06	10.09	8.16	-8.23	-0.07		
5230	65	0.00	0.00	-22.90	3.06	9.98	8.16	-9.86	-1.70	-21.02	3.07	10.09	8.16	-7.86	0.30		
5270	65	0.00	0.00	-23.33	3.07	9.98	8.16	-10.29	-2.13	-21.47	3.09	10.09	8.16	-8.29	-0.13		
5310	65	0.00	0.00	-23.68	3.08	9.98	8.16	-10.62	-2.46	-21.87	3.10	10.09	8.16	-8.68	-0.52		
5510	65	0.00	0.00	-20.25	3.14	9.98	6.55	-7.13	-0.58	-18.59	3.16	10.09	6.55	-5.34	1.21		
5550	65	0.00	0.00	-20.33	3.15	9.98	6.55	-7.20	-0.65	-19.63	3.17	10.09	6.55	-6.37	0.18		
5670	65	0.00	0.00	-20.61	3.18	9.98	6.55	-7.44	-0.89	-20.01	3.20	10.09	6.55	-6.71	-0.16		
5755	65	0.00	6.99	-33.50	3.20	9.98	6.07	-13.33	-7.26	-32.16	3.22	10.09	6.07	-11.86	-5.79		
5795	65	0.00	6.99	-33.48	3.21	9.98	6.07	-13.30	-7.23	-32.10	3.23	10.10	6.07	-11.78	-5.71		

Sample Calculation:

PSD: Power Spectral Density

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

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

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

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

* The Duty Factor is 0 dB, since this measurement was performed only on the on time using the gate function of spectrum analyzer.

Maximum Power Spectral Density

11ax-40 (OFDMA)
484-tone RU
RU Index 65

ANT0

5190 MHz



ANT1

5190 MHz



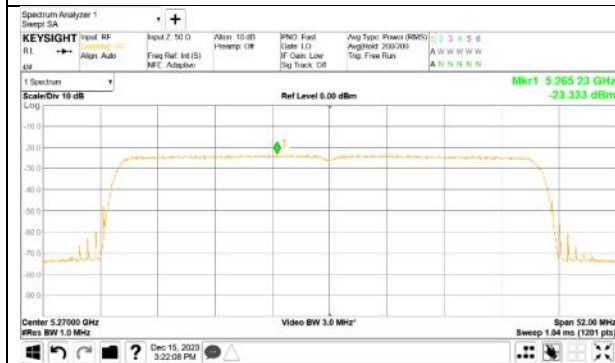
5230 MHz



5230 MHz



5270 MHz



5270 MHz

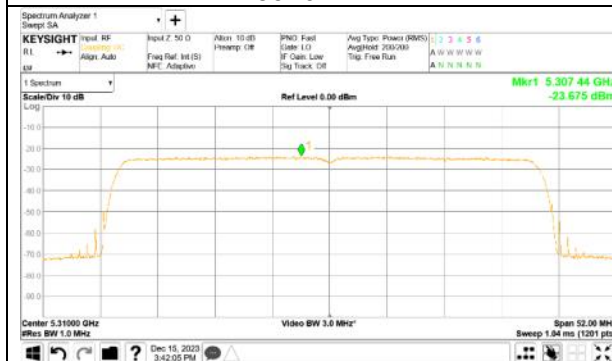


Maximum Power Spectral Density

11ax-40 (OFDMA)
484-tone RU
RU Index 65

ANT0

5310 MHz

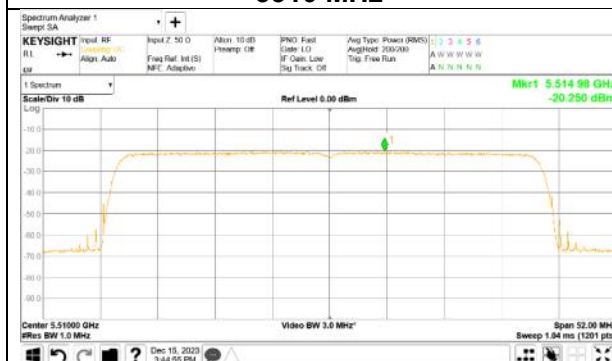


ANT1

5310 MHz



5510 MHz



5510 MHz



5550 MHz

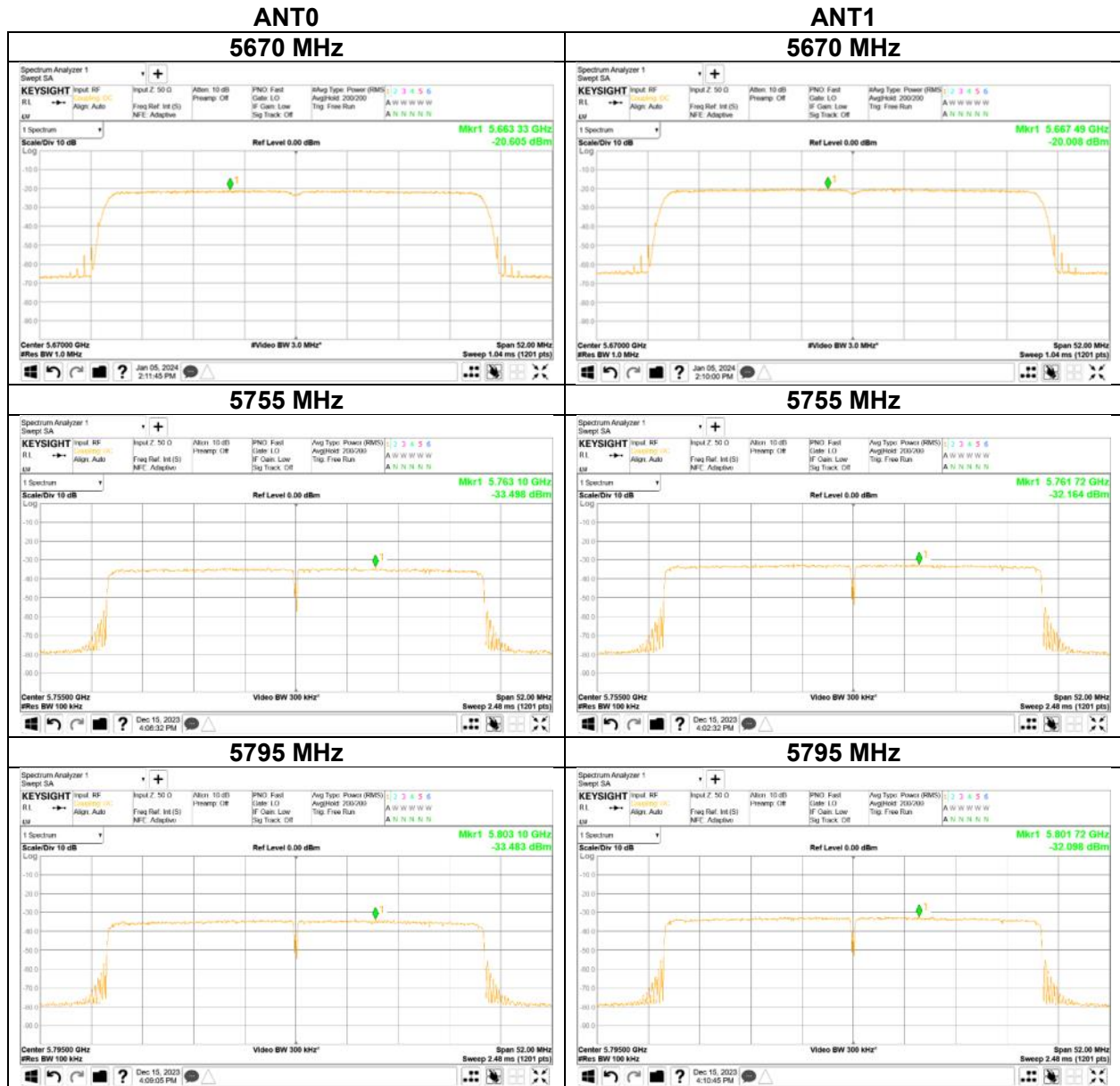


5550 MHz



Maximum Power Spectral Density

11ax-40 (OFDMA)
484-tone RU
RU Index 65



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date June 11, 2023 November 23, 2023
Temperature / Humidity 25 deg. C / 52 % RH 25 deg. C / 53 % RH
Engineer Shiro Kobayashi Shiro Kobayashi
Mode Tx 11ac-80

ANT0 + ANT1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	ANT0 [mW/MHz]	ANT1 [mW/MHz]	Sum [mW/MHz]				ANT0 [mW/MHz]	ANT1 [mW/MHz]	Sum [mW/MHz]			
5210	0.07	0.11	0.18	-7.35	8.84	16.19	0.49	0.71	1.21	0.81	17.00	16.19
5290	0.06	0.09	0.15	-8.17	8.84	17.01	0.41	0.59	1.00	-0.01	17.00	17.01
5530	0.14	0.20	0.34	-4.65	10.45	15.10	0.65	0.90	1.55	1.90	17.00	15.10
5610	0.14	0.14	0.28	-5.55	10.45	16.00	0.62	0.64	1.26	1.00	17.00	16.00
5775	0.04	0.06	0.10	-10.13	29.93	40.06	0.15	0.24	0.39	-4.06	36.00	40.06

Tested Frequency [MHz]	ANT0							ANT1						
	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Reading	PSD Result
	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	Cond. e.i.r.p.	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]
5210	0.10	0.00	-24.37	3.04	9.98	8.16	-11.25 -3.09	-22.87	3.06	10.09	8.16	-9.62	-1.46	-1.46
5290	0.10	0.00	-25.21	3.08	9.98	8.16	-12.05 -3.89	-23.74	3.10	10.09	8.16	-10.45	-2.29	-2.29
5530	0.10	0.00	-21.62	3.14	9.98	6.55	-8.40 -1.85	-20.38	3.16	10.09	6.55	-7.03	-0.48	-0.48
5610	0.10	0.00	-21.87	3.16	9.98	6.55	-8.63 -2.08	-21.87	3.18	10.09	6.55	-8.50	-1.95	-1.95
5775	0.10	6.99	-34.55	3.23	9.98	6.07	-14.25 -8.18	-32.69	3.25	10.09	6.07	-12.26	-6.19	-6.19

Sample Calculation:

PSD: Power Spectral Density

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

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

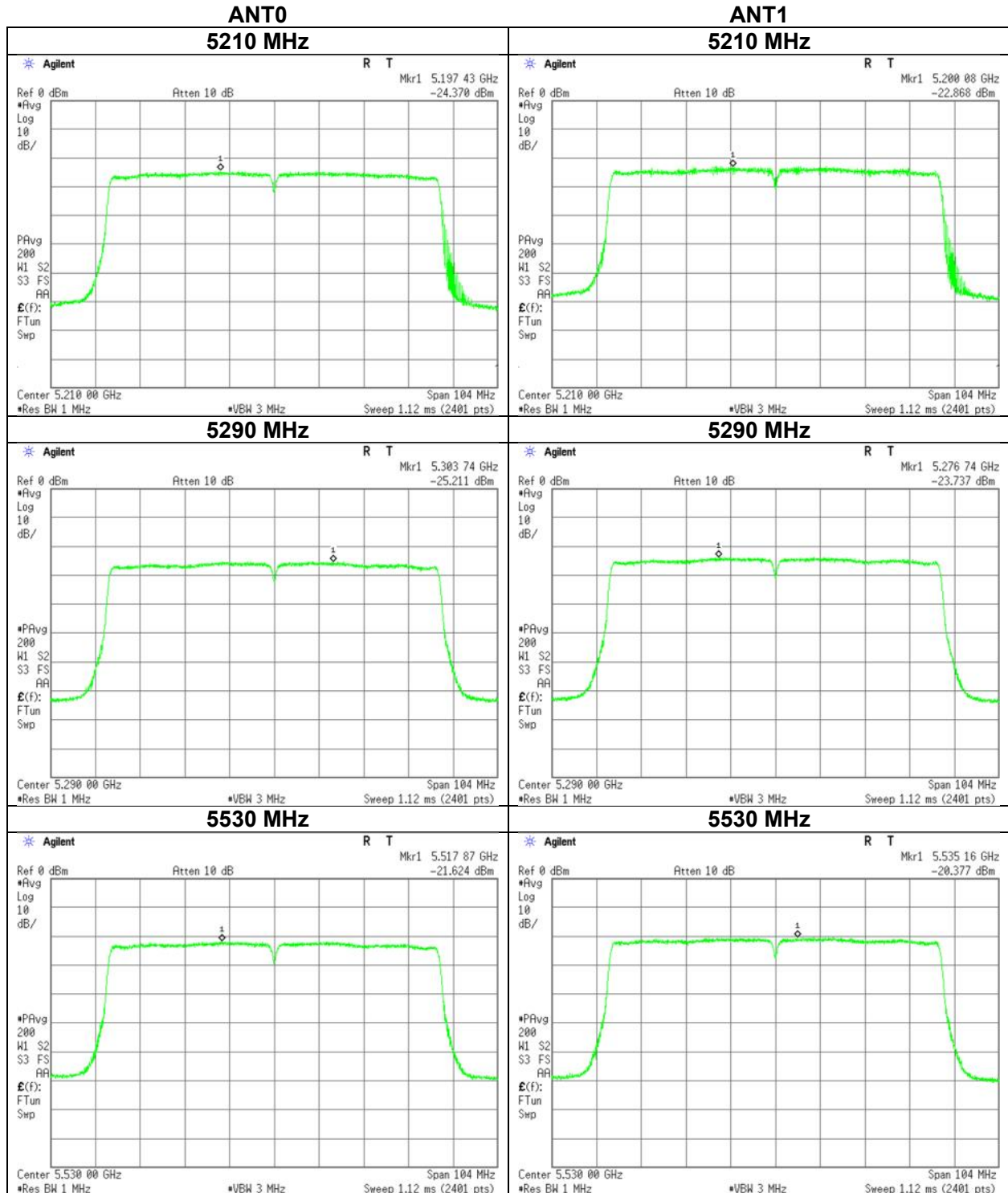
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

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

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

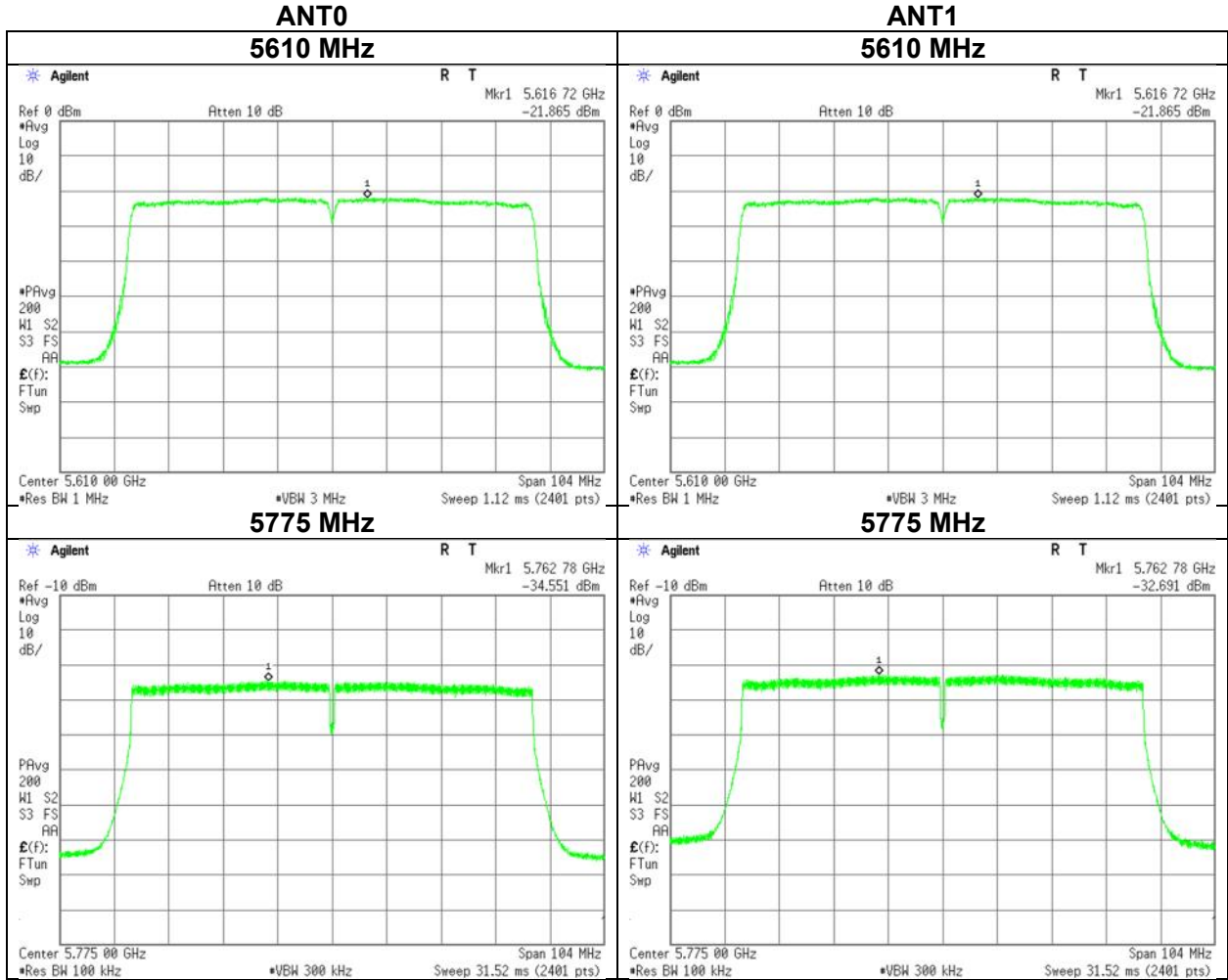
Maximum Power Spectral Density

Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	June 11, 2023	November 23, 2023
Temperature / Humidity	25 deg. C / 52 % RH	25 deg. C / 53 % RH
Engineer	Shiro Kobayashi	Shiro Kobayashi
Mode	Tx 11ac-80	



Maximum Power Spectral Density

Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	June 11, 2023	November 23, 2023
Temperature / Humidity	25 deg. C / 52 % RH	25 deg. C / 53 % RH
Engineer	Shiro Kobayashi	Shiro Kobayashi
Mode	Tx 11ac-80	



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date June 11, 2023 November 23, 2023
Temperature / Humidity 25 deg. C / 52 % RH 25 deg. C / 53 % RH
Engineer Shiro Kobayashi Shiro Kobayashi
Mode Tx 11ax-80 (OFDM)

ANT0 + ANT1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna ANT0 [mW/MHz]	Antenna ANT1 [mW/MHz]	Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Antenna ANT0 [mW/MHz]	Antenna ANT1 [mW/MHz]	Sum [mW/MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
5210	0.08	0.13	0.21	-6.69	8.84	15.53	0.53	0.88	1.40	1.47	17.00	15.53
5290	0.07	0.11	0.17	-7.65	8.84	16.49	0.44	0.69	1.13	0.51	17.00	16.49
5530	0.15	0.21	0.36	-4.47	10.45	14.92	0.67	0.95	1.61	2.08	17.00	14.92
5610	0.15	0.21	0.35	-4.53	10.45	14.98	0.66	0.93	1.59	2.02	17.00	14.98
5775	0.03	0.05	0.08	-10.92	29.93	40.85	0.13	0.20	0.33	-4.85	36.00	40.85

			ANT0						ANT1					
Tested Frequency	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result		PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	
							Cond.	e.i.r.p.					Cond.	e.i.r.p.
[MHz]	[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	0.12	0.00	-24.10	3.04	9.98	8.16	-10.96	-2.80	-22.00	3.06	10.09	8.16	-8.73	-0.57
5290	0.12	0.00	-24.93	3.08	9.98	8.16	-11.75	-3.59	-23.10	3.10	10.09	8.16	-9.79	-1.63
5530	0.12	0.00	-21.55	3.14	9.98	6.55	-8.31	-1.76	-20.16	3.16	10.09	6.55	-6.79	-0.24
5610	0.12	0.00	-21.59	3.16	9.98	6.55	-8.33	-1.78	-20.27	3.18	10.09	6.55	-6.88	-0.33
5775	0.12	6.99	-35.28	3.23	9.98	6.07	-14.96	-8.89	-33.54	3.25	10.09	6.07	-13.09	-7.02

Sample Calculation:

PSD: Power Spectral Density

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

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

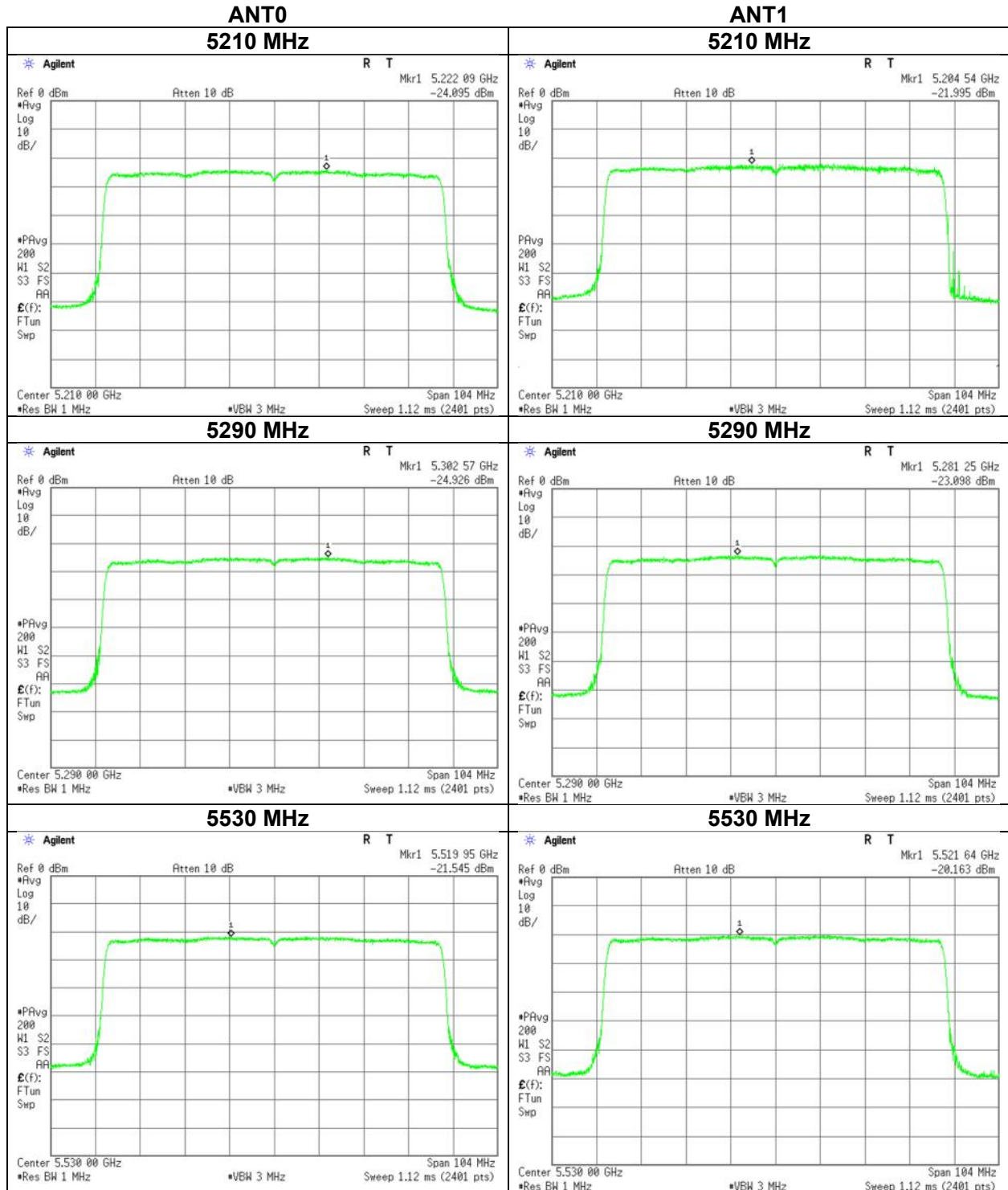
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

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

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

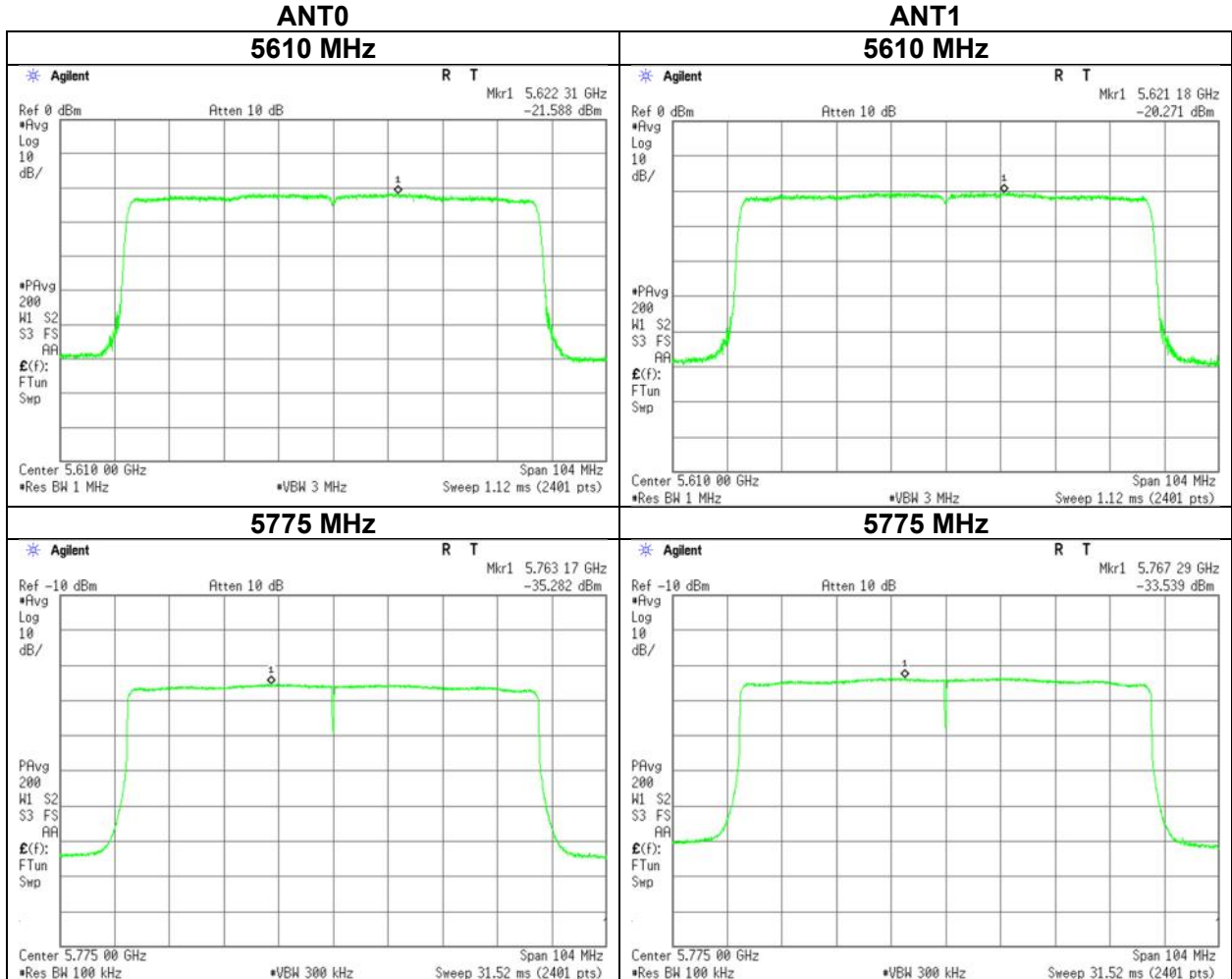
Maximum Power Spectral Density

Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	June 11, 2023	November 23, 2023
Temperature / Humidity	25 deg. C / 52 % RH	25 deg. C / 53 % RH
Engineer	Shiro Kobayashi	Shiro Kobayashi
Mode	Tx 11ax-80 (OFDM)	



Maximum Power Spectral Density

Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	June 11, 2023	November 23, 2023
Temperature / Humidity	25 deg. C / 52 % RH	25 deg. C / 53 % RH
Engineer	Shiro Kobayashi	Shiro Kobayashi
Mode	Tx 11ax-80 (OFDM)	



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date December 19, 2023 January 5, 2024
Temperature / Humidity 22 deg. C / 33 % RH 22 deg.C / 27 %RH
Engineer Akihiro Oda Makoto Hosaka
Mode Tx 11ax-80 (OFDMA) 26-tone RU

ANT0 + ANT1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	PSD (Conducted)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]				ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]			
5210	0	0.05	0.06	0.11	-9.63	8.84	18.47	0.33	0.39	0.71	-1.47	17.00	18.47
	17	0.06	0.07	0.12	-9.05	8.84	17.89	0.37	0.45	0.82	-0.89	17.00	17.89
	36	0.05	0.05	0.10	-10.09	8.84	18.93	0.31	0.34	0.64	-1.93	17.00	18.93
5290	0	0.05	0.06	0.11	-9.53	8.84	18.37	0.34	0.39	0.73	-1.37	17.00	18.37
	17	0.05	0.06	0.11	-9.56	8.84	18.40	0.32	0.40	0.72	-1.40	17.00	18.40
	36	0.05	0.06	0.10	-9.79	8.84	18.63	0.30	0.38	0.69	-1.63	17.00	18.63
5530	0	0.07	0.10	0.17	-7.71	10.45	18.16	0.30	0.46	0.77	-1.16	17.00	18.16
	17	0.08	0.11	0.20	-7.04	10.45	17.49	0.38	0.51	0.89	-0.49	17.00	17.49
	36	0.07	0.09	0.17	-7.73	10.45	18.18	0.34	0.42	0.76	-1.18	17.00	18.18
5610	0	0.08	0.09	0.17	-7.61	10.45	18.06	0.36	0.42	0.78	-1.06	17.00	18.06
	17	0.08	0.12	0.19	-7.14	10.45	17.59	0.35	0.52	0.87	-0.59	17.00	17.59
	36	0.07	0.11	0.18	-7.50	10.45	17.95	0.33	0.48	0.80	-0.95	17.00	17.95
5775	0	0.02	0.03	0.05	-12.72	29.93	42.65	0.09	0.13	0.22	-6.65	36.00	42.65
	17	0.03	0.04	0.06	-11.98	29.93	41.91	0.11	0.14	0.26	-5.91	36.00	41.91
	36	0.02	0.04	0.06	-12.18	29.93	42.11	0.09	0.15	0.24	-6.11	36.00	42.11

Tested Frequency [MHz]	RU Index	ANT0							ANT1						
		Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Result
		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	e.i.r.p.	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	e.i.r.p.
5210	0	0.00	0.00	-26.06	3.05	9.98	8.16	-13.03	-4.87	-25.44	3.07	10.09	8.16	-12.28	-4.12
	17	0.00	0.00	-25.52	3.05	9.98	8.16	-12.49	-4.33	-24.82	3.07	10.09	8.16	-11.66	-3.50
	36	0.00	0.00	-26.33	3.05	9.98	8.16	-13.30	-5.14	-26.06	3.07	10.09	8.16	-12.90	-4.74
5290	0	0.00	0.00	-25.89	3.07	9.98	8.16	-12.84	-4.68	-25.44	3.09	10.09	8.16	-12.26	-4.10
	17	0.00	0.00	-26.17	3.07	9.98	8.16	-13.12	-4.96	-25.27	3.09	10.09	8.16	-12.09	-3.93
	36	0.00	0.00	-26.37	3.07	9.98	8.16	-13.32	-5.16	-25.52	3.09	10.09	8.16	-12.34	-4.18
5530	0	0.00	0.00	-24.88	3.14	9.98	6.55	-11.76	-5.21	-23.14	3.16	10.09	6.55	-9.89	-3.34
	17	0.00	0.00	-23.87	3.14	9.98	6.55	-10.75	-4.20	-22.69	3.16	10.09	6.55	-9.44	-2.89
	36	0.00	0.00	-24.37	3.14	9.98	6.55	-11.25	-4.70	-23.53	3.16	10.09	6.55	-10.28	-3.73
5610	0	0.00	0.00	-24.12	3.17	9.98	6.55	-10.97	-4.42	-23.56	3.18	10.09	6.55	-10.29	-3.74
	17	0.00	0.00	-24.24	3.17	9.98	6.55	-11.09	-4.54	-22.65	3.18	10.09	6.55	-9.38	-2.83
	36	0.00	0.00	-24.54	3.17	9.98	6.55	-11.39	-4.84	-23.05	3.18	10.09	6.55	-9.78	-3.23
5775	0	0.00	6.99	-36.69	3.21	9.98	6.07	-16.51	-10.44	-35.38	3.23	10.09	6.07	-15.07	-9.00
	17	0.00	6.99	-35.76	3.21	9.98	6.07	-15.58	-9.51	-34.78	3.23	10.09	6.07	-14.47	-8.40
	36	0.00	6.99	-36.57	3.21	9.98	6.07	-16.39	-10.32	-34.57	3.23	10.09	6.07	-14.26	-8.19

Sample Calculation:

PSD: Power Spectral Density

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

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

PSD Result (Conducted)[dBm/MHz] = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

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

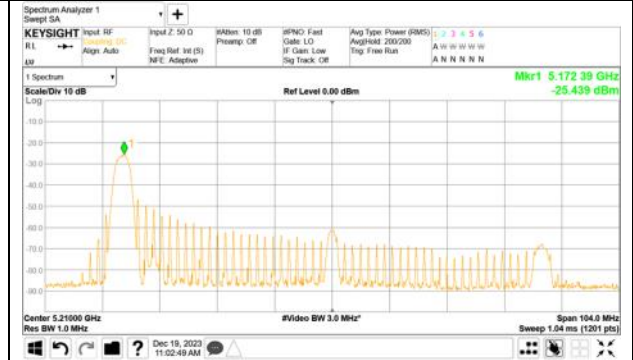
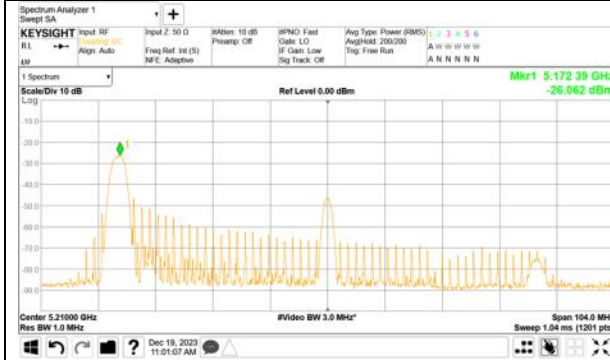
The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

* The Duty Factor is 0 dB, since this measurement was performed only on the on time using the gate function of spectrum analyzer.

**11ax-80 (OFDMA)
26-tone RU 5210 MHz**

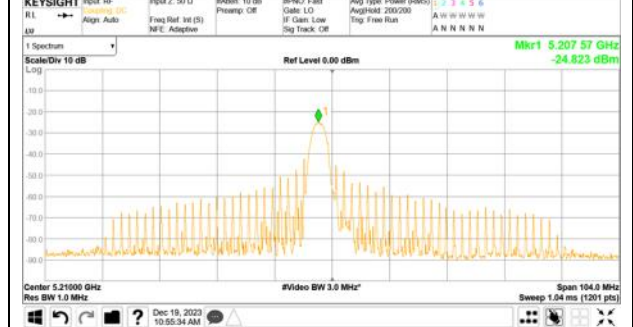
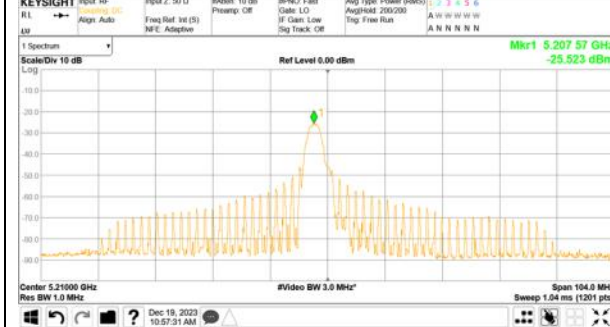
RU Index 0

RU Index 0

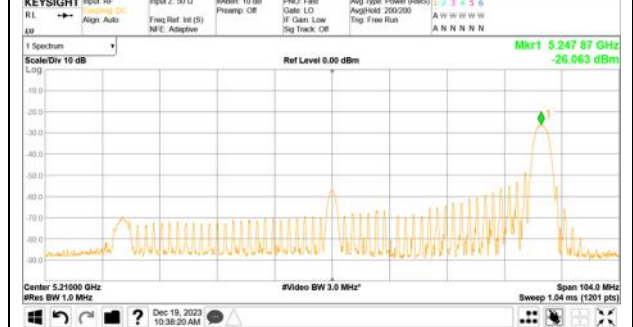
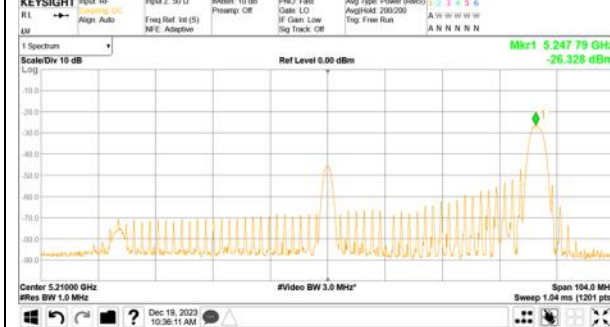


RU Index 17

RU Index 17

**RU Index 36**

RU Index 36

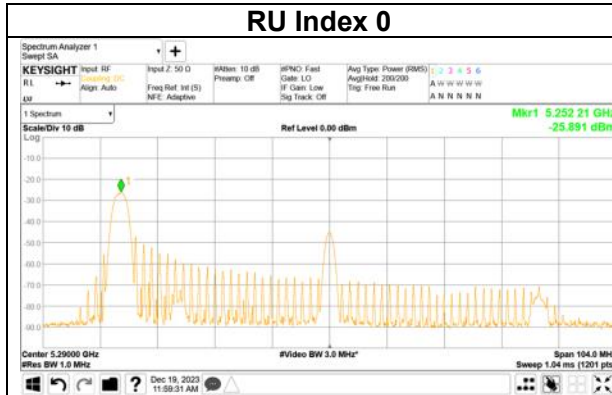


Maximum Power Spectral Density

11ax-80 (OFDMA)
26-tone RU 5290 MHz

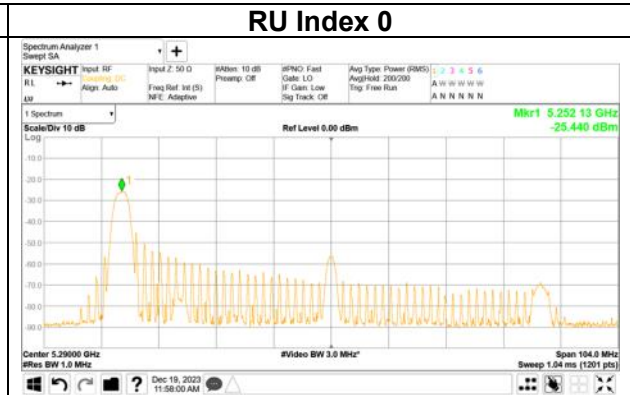
ANT0

RU Index 0

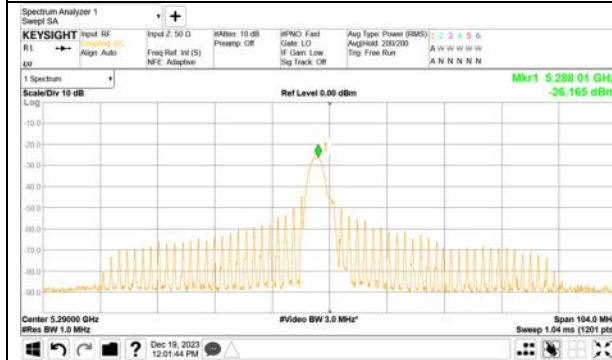


ANT1

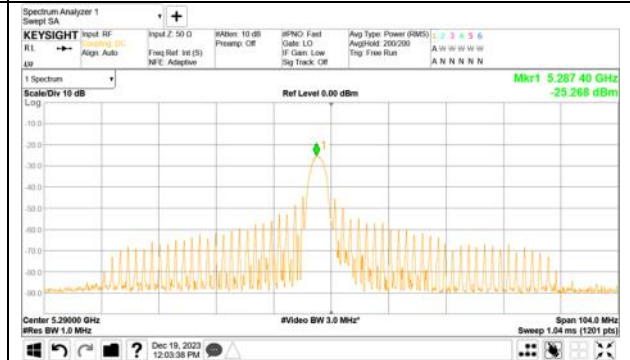
RU Index 0



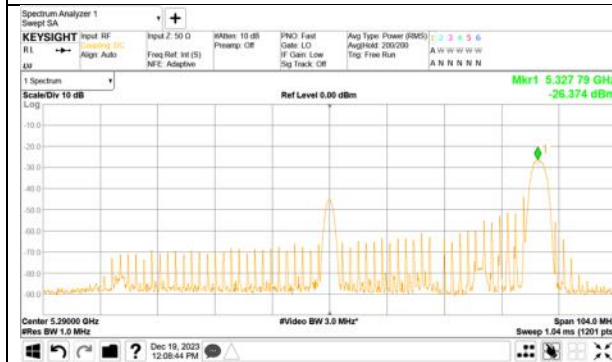
RU Index 17



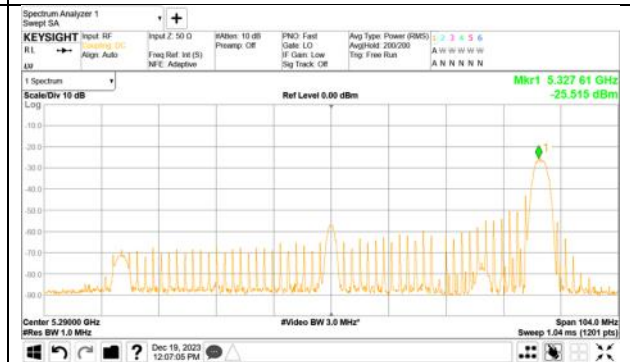
RU Index 17



RU Index 36



RU Index 36

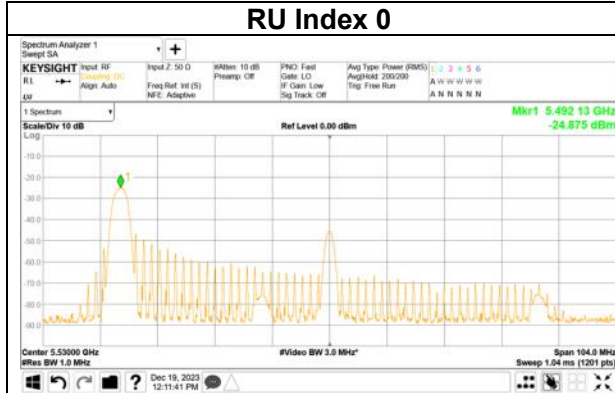


Maximum Power Spectral Density

11ax-80 (OFDMA)
26-tone RU 5530 MHz

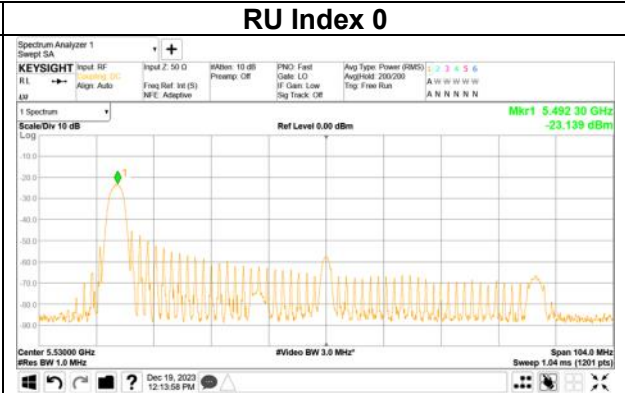
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RU Index 0

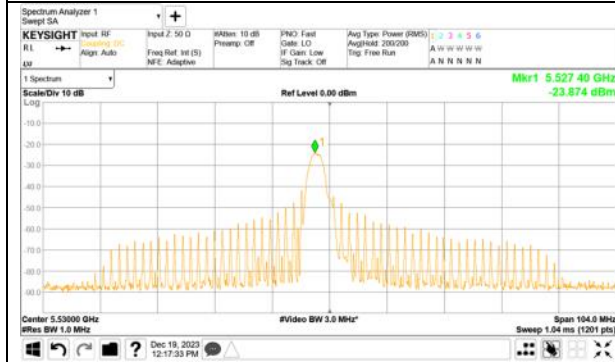


ANT1

RU Index 0



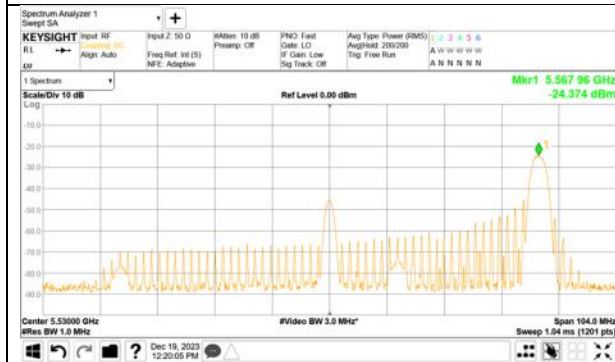
RU Index 17



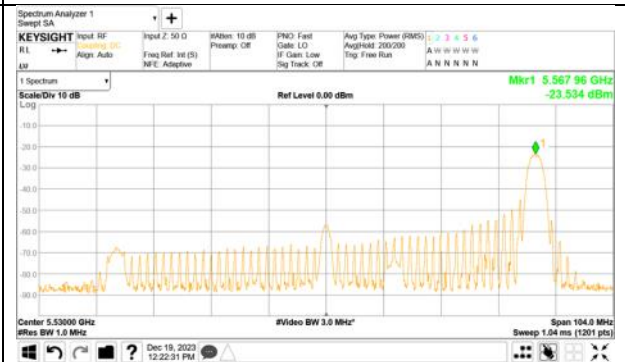
RU Index 17



RU Index 36



RU Index 36

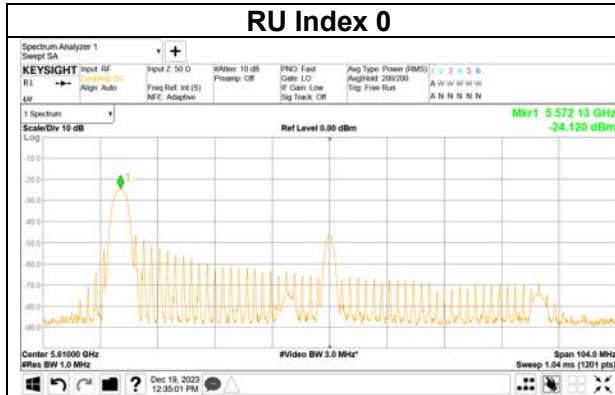


Maximum Power Spectral Density

11ax-80 (OFDMA)
26-tone RU 5610 MHz

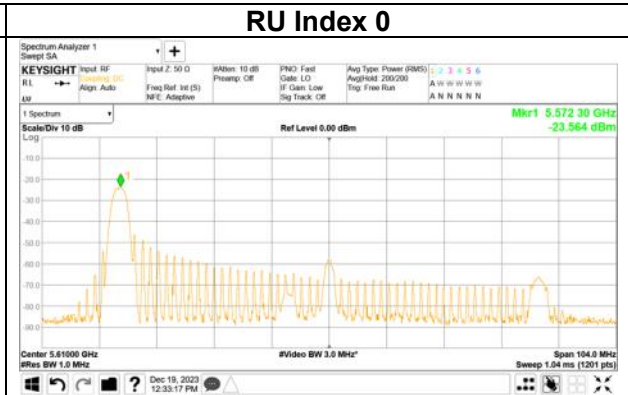
ANT0

RU Index 0

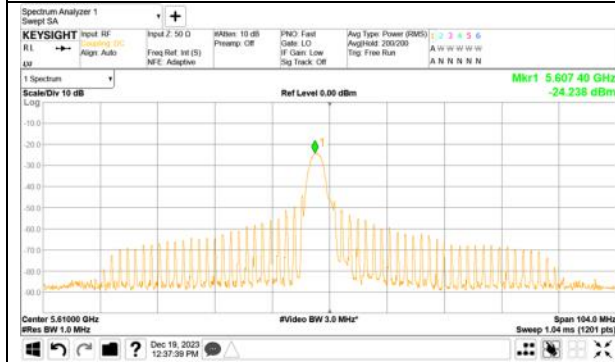


ANT1

RU Index 0



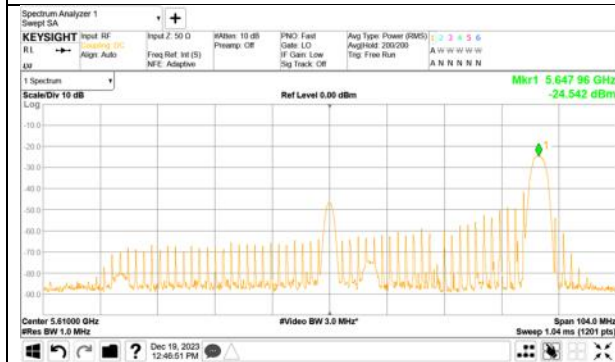
RU Index 17



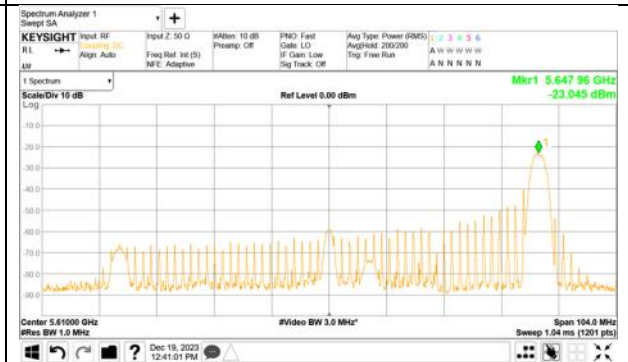
RU Index 17



RU Index 36



RU Index 36

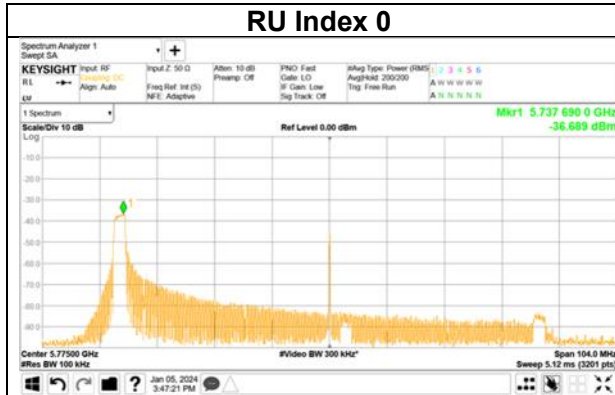


Maximum Power Spectral Density

11ax-80 (OFDMA)
26-tone RU 5775 MHz

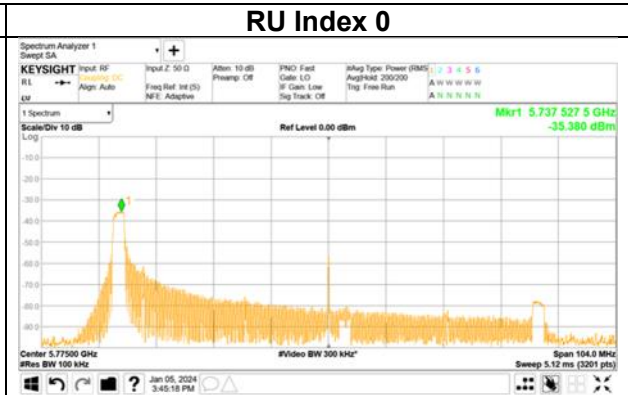
ANT0

RU Index 0

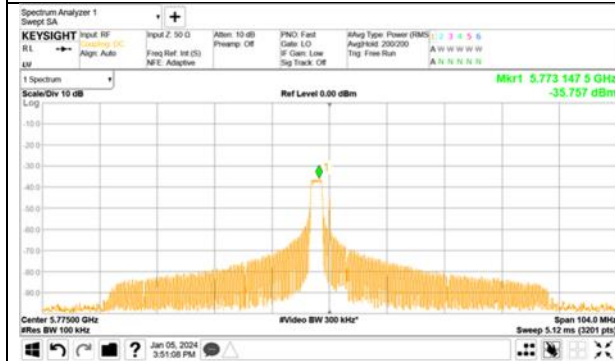


ANT1

RU Index 0



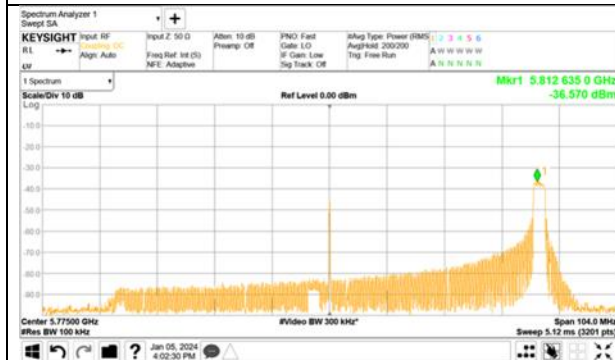
RU Index 17



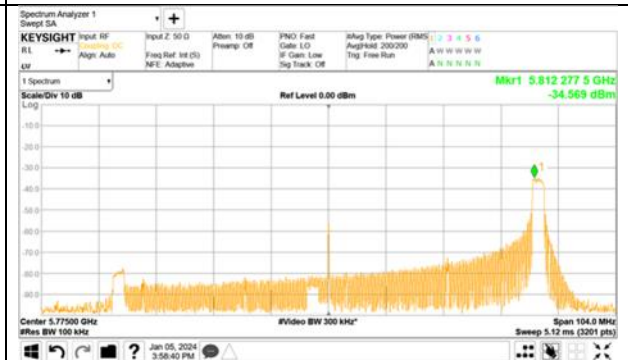
RU Index 17



RU Index 36



RU Index 36



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date December 19, 2023 January 5, 2024
Temperature / Humidity 22 deg. C / 33 % RH 22 deg.C / 27 %RH
Engineer Akihiro Oda Makoto Hosaka
Mode Tx 11ax-80 (OFDMA) 52-tone RU

ANT0 + ANT1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	PSD (Conducted)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]				ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]			
5210	37	0.06	0.07	0.13	-8.97	8.84	17.81	0.37	0.46	0.83	-0.81	17.00	17.81
	44	0.05	0.07	0.12	-9.16	8.84	18.00	0.35	0.44	0.79	-1.00	17.00	18.00
	52	0.05	0.06	0.11	-9.64	8.84	18.48	0.31	0.40	0.71	-1.48	17.00	18.48
5290	37	0.05	0.06	0.12	-9.37	8.84	18.21	0.35	0.41	0.76	-1.21	17.00	18.21
	44	0.05	0.07	0.12	-9.31	8.84	18.15	0.33	0.44	0.77	-1.15	17.00	18.15
	52	0.05	0.06	0.11	-9.58	8.84	18.42	0.34	0.39	0.72	-1.42	17.00	18.42
5530	37	0.09	0.11	0.20	-7.09	10.45	17.54	0.40	0.48	0.88	-0.54	17.00	17.54
	44	0.08	0.11	0.19	-7.27	10.45	17.72	0.34	0.51	0.85	-0.72	17.00	17.72
	52	0.08	0.10	0.18	-7.38	10.45	17.83	0.36	0.47	0.83	-0.83	17.00	17.83
5610	37	0.08	0.10	0.18	-7.53	10.45	17.98	0.36	0.44	0.80	-0.98	17.00	17.98
	44	0.09	0.11	0.20	-7.01	10.45	17.46	0.40	0.50	0.90	-0.46	17.00	17.46
	52	0.09	0.10	0.18	-7.38	10.45	17.83	0.39	0.43	0.83	-0.83	17.00	17.83
5775	37	0.02	0.04	0.06	-12.28	29.93	42.21	0.10	0.14	0.24	-6.21	36.00	42.21
	44	0.03	0.03	0.06	-12.33	29.93	42.26	0.10	0.13	0.24	-6.26	36.00	42.26
	52	0.02	0.03	0.06	-12.52	29.93	42.45	0.10	0.13	0.23	-6.45	36.00	42.45

Tested Frequency [MHz]	RU Index	ANT0							ANT1						
		Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	37	0.00	0.00	-25.57	3.05	9.98	8.16	-12.54	-4.38	-24.65	3.07	10.09	8.16	-11.49	-3.33
	44	0.00	0.00	-25.74	3.05	9.98	8.16	-12.71	-4.55	-24.85	3.07	10.09	8.16	-11.69	-3.53
	52	0.00	0.00	-26.22	3.05	9.98	8.16	-13.19	-5.03	-25.33	3.07	10.09	8.16	-12.17	-4.01
5290	37	0.00	0.00	-25.82	3.07	9.98	8.16	-12.77	-4.61	-25.21	3.09	10.09	8.16	-12.03	-3.87
	44	0.00	0.00	-25.99	3.07	9.98	8.16	-12.94	-4.78	-24.95	3.09	10.09	8.16	-11.77	-3.61
	52	0.00	0.00	-25.95	3.07	9.98	8.16	-12.90	-4.74	-25.49	3.09	10.09	8.16	-12.31	-4.15
5530	37	0.00	0.00	-23.65	3.14	9.98	6.55	-10.52	-3.97	-22.97	3.16	10.09	6.55	-9.72	-3.17
	44	0.00	0.00	-24.34	3.14	9.98	6.55	-11.22	-4.67	-22.76	3.16	10.09	6.55	-9.51	-2.96
	52	0.00	0.00	-24.15	3.14	9.98	6.55	-11.03	-4.48	-23.08	3.16	10.09	6.55	-9.83	-3.28
5610	37	0.00	0.00	-24.13	3.17	9.98	6.55	-10.98	-4.43	-23.42	3.18	10.09	6.55	-10.15	-3.60
	44	0.00	0.00	-23.71	3.17	9.98	6.55	-10.56	-4.01	-22.81	3.18	10.09	6.55	-9.54	-2.99
	52	0.00	0.00	-23.76	3.17	9.98	6.55	-10.61	-4.06	-23.45	3.18	10.09	6.55	-10.18	-3.63
5775	37	0.00	6.99	-36.39	3.21	9.98	6.07	-16.21	-10.14	-34.85	3.23	10.09	6.07	-14.54	-8.47
	44	0.00	6.99	-36.06	3.21	9.98	6.07	-15.88	-9.81	-35.18	3.23	10.09	6.07	-14.87	-8.80
	52	0.00	6.99	-36.35	3.21	9.98	6.07	-16.17	-10.10	-35.28	3.23	10.09	6.07	-14.97	-8.90

Sample Calculation:

PSD: Power Spectral Density

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

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

PSD Result (Conducted)[dBm/MHz] = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

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

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

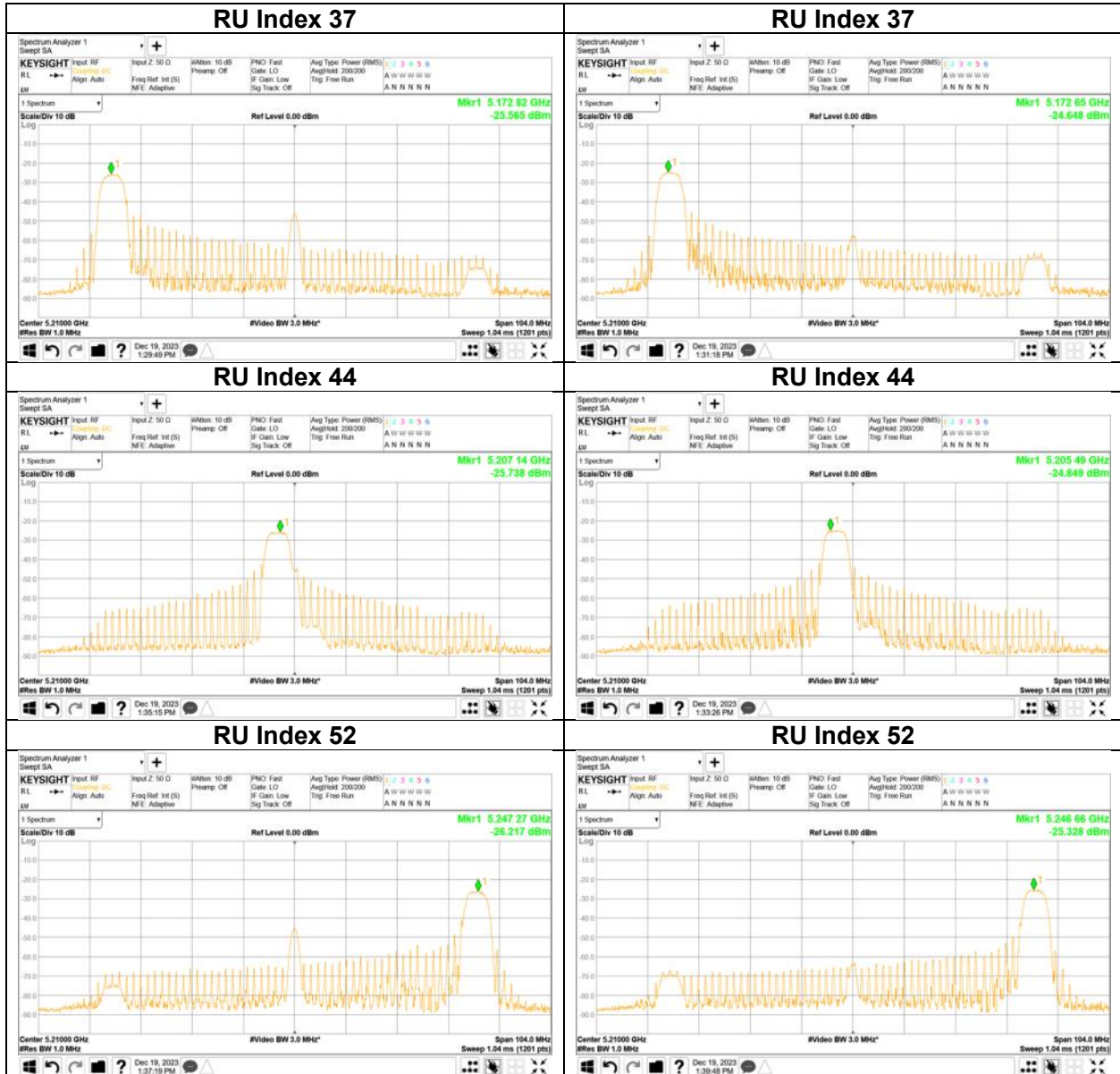
* The Duty Factor is 0 dB, since this measurement was performed only on the on time using the gate function of spectrum analyzer.

Maximum Power Spectral Density

11ax-80 (OFDMA)
52-tone RU 5210 MHz

ANT0

ANT1

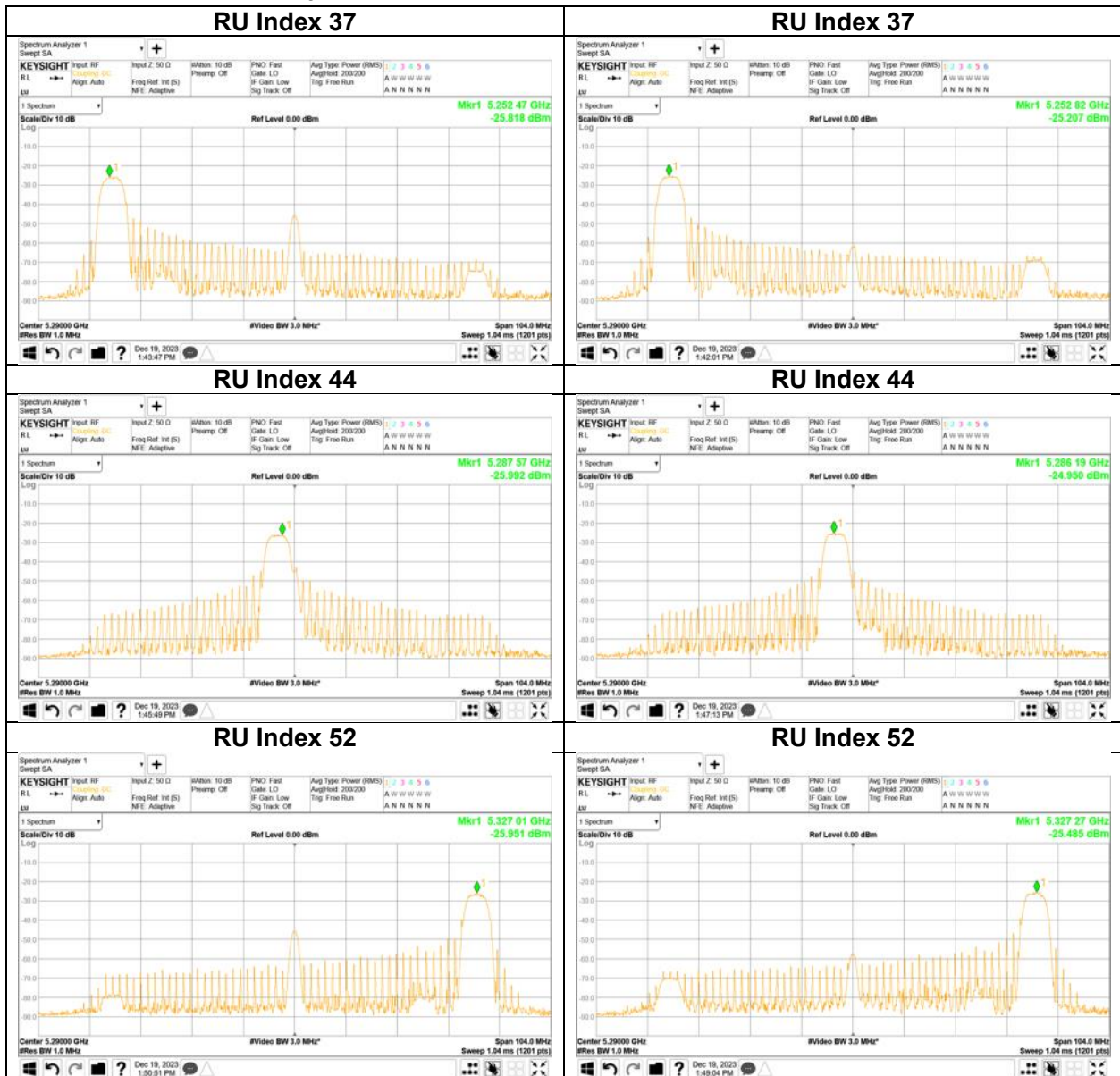


Maximum Power Spectral Density

11ax-80 (OFDMA)
52-tone RU 5290 MHz

ANT0

ANT1

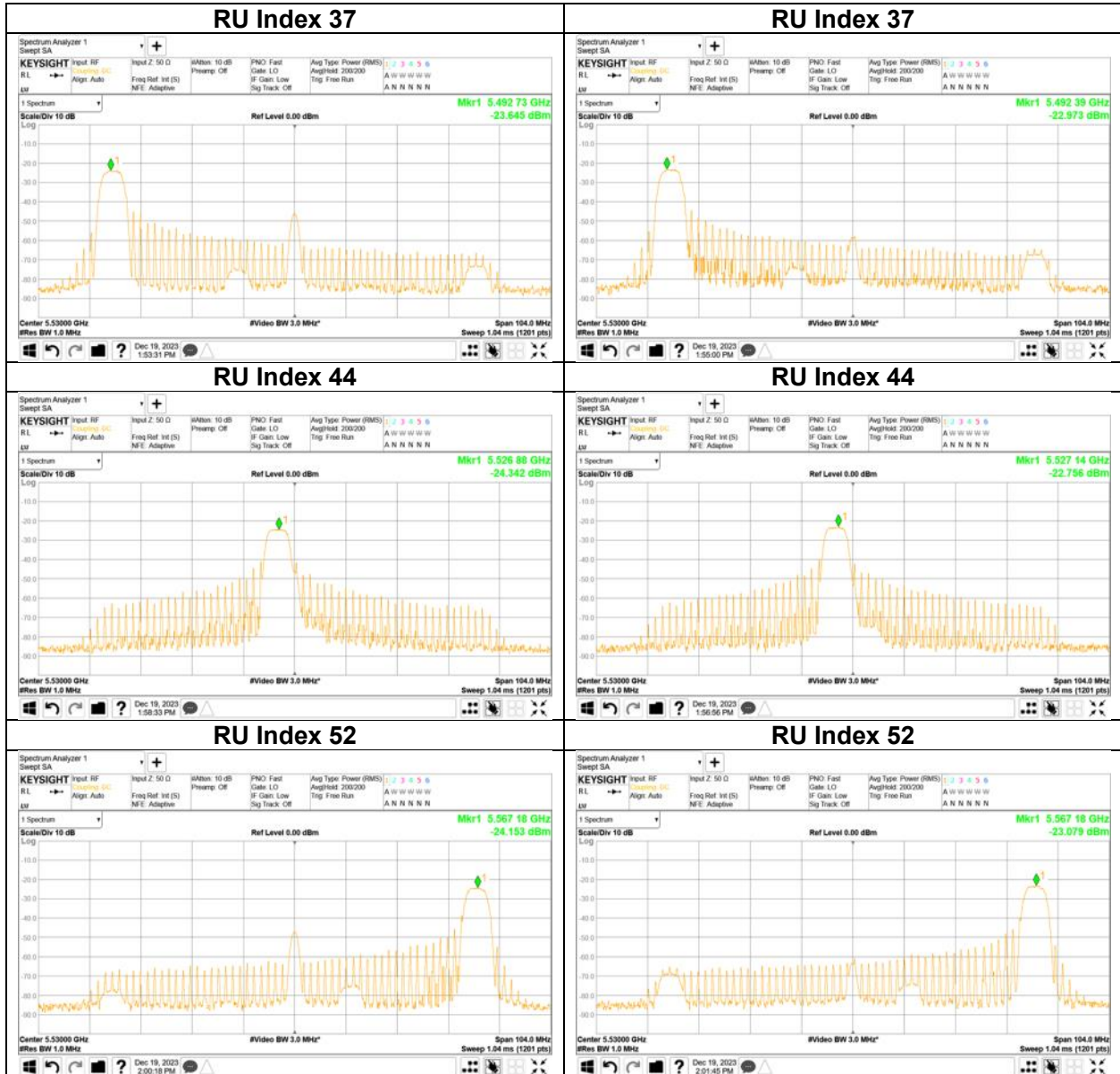


Maximum Power Spectral Density

11ax-80 (OFDMA)
52-tone RU 5530 MHz

ANT0

ANT1

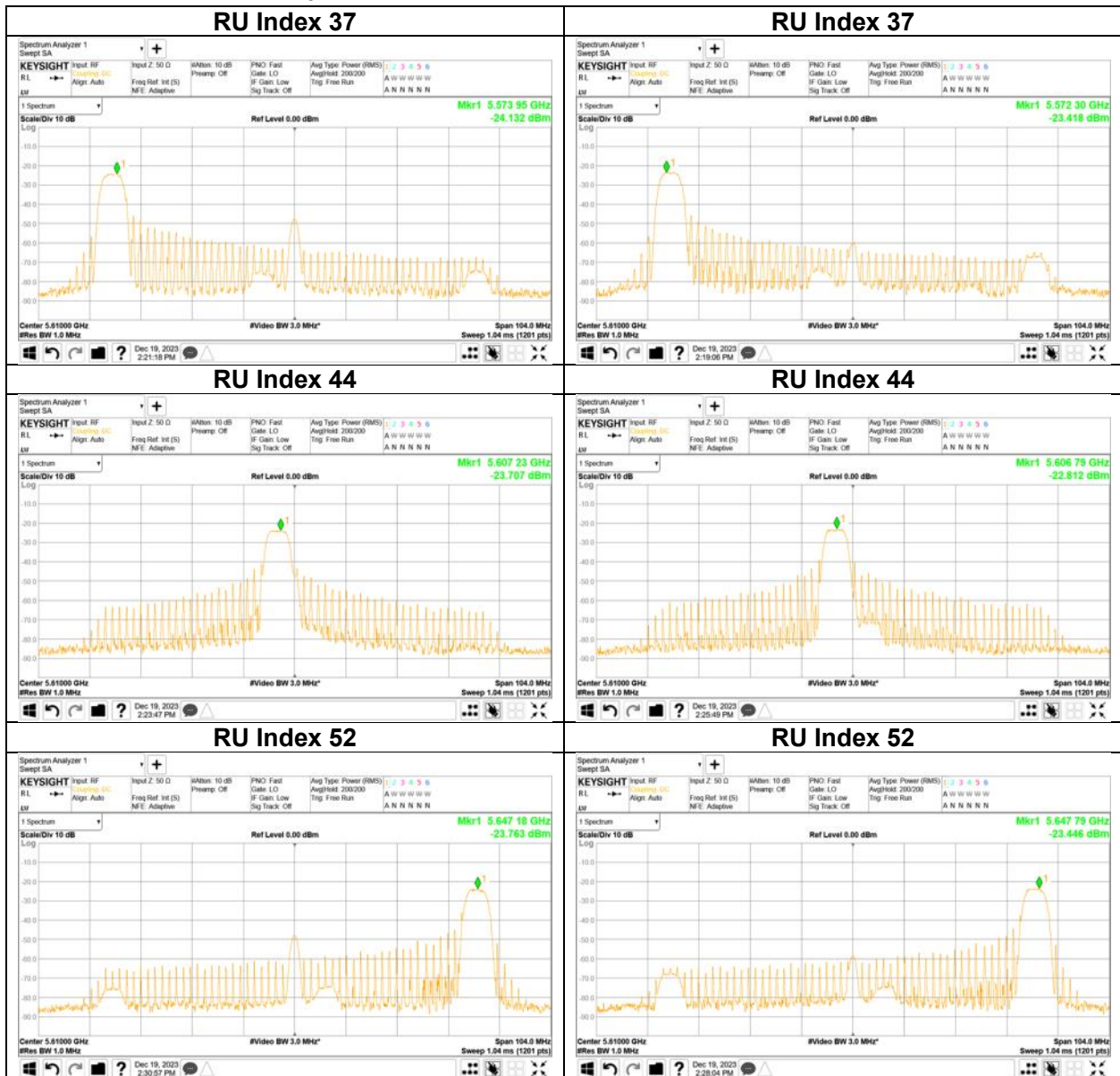


Maximum Power Spectral Density

11ax-80 (OFDMA)
52-tone RU 5610 MHz

ANT0

ANT1

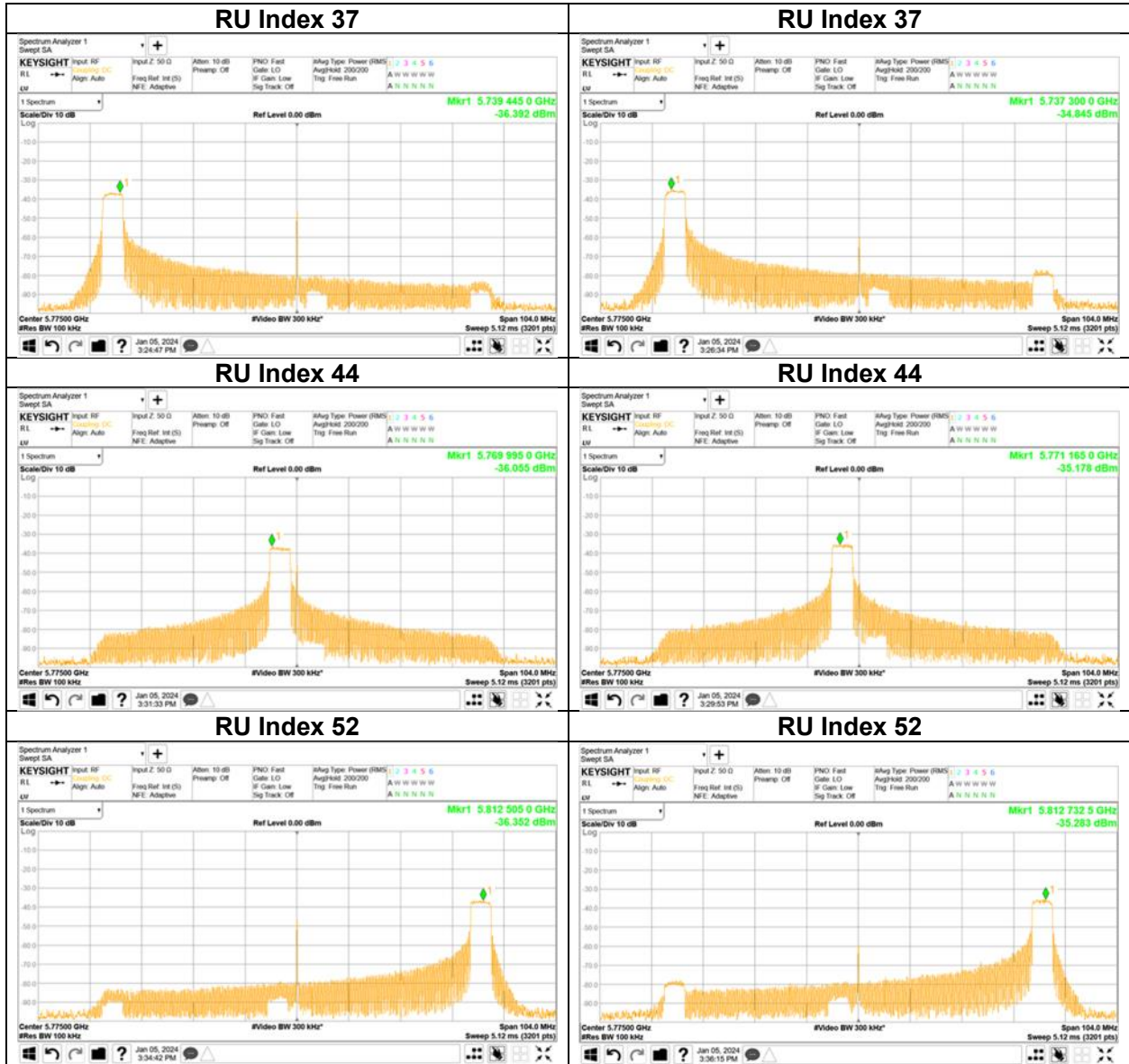


Maximum Power Spectral Density

11ax-80 (OFDMA)
52-tone RU 5775 MHz

ANT0

ANT1



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date December 20, 2023 January 5, 2024
Temperature / Humidity 21 deg. C / 31 % RH 22 deg.C / 27 %RH
Engineer Akihiro Oda Makoto Hosaka
Mode Tx 11ax-80 (OFDMA) 106-tone RU

ANT0 + ANT1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	PSD (Conducted)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]				ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]			
5210	53	0.05	0.07	0.12	-9.17	8.84	18.01	0.33	0.46	0.79	-1.01	17.00	18.01
	56	0.06	0.07	0.13	-9.00	8.84	17.84	0.38	0.44	0.82	-0.84	17.00	17.84
	60	0.04	0.05	0.08	-10.75	8.84	19.59	0.23	0.32	0.55	-2.59	17.00	19.59
5290	53	0.05	0.06	0.12	-9.38	8.84	18.22	0.33	0.42	0.75	-1.22	17.00	18.22
	56	0.05	0.07	0.12	-9.27	8.84	18.11	0.31	0.46	0.77	-1.11	17.00	18.11
	60	0.04	0.05	0.09	-10.47	8.84	19.31	0.26	0.33	0.59	-2.31	17.00	19.31
5530	53	0.08	0.10	0.18	-7.49	10.45	17.94	0.36	0.45	0.80	-0.94	17.00	17.94
	56	0.09	0.11	0.19	-7.10	10.45	17.55	0.39	0.49	0.88	-0.55	17.00	17.55
	60	0.08	0.10	0.18	-7.50	10.45	17.95	0.36	0.45	0.80	-0.95	17.00	17.95
5610	53	0.09	0.10	0.19	-7.31	10.45	17.76	0.38	0.45	0.84	-0.76	17.00	17.76
	56	0.09	0.11	0.20	-7.07	10.45	17.52	0.39	0.50	0.89	-0.52	17.00	17.52
	60	0.08	0.10	0.18	-7.41	10.45	17.86	0.38	0.44	0.82	-0.86	17.00	17.86
5775	53	0.02	0.04	0.06	-12.22	29.93	42.15	0.09	0.15	0.24	-6.15	36.00	42.15
	56	0.02	0.03	0.05	-12.68	29.93	42.61	0.10	0.12	0.22	-6.61	36.00	42.61
	60	0.03	0.03	0.06	-11.98	29.93	41.91	0.12	0.14	0.26	-5.91	36.00	41.91

Tested Frequency [MHz]	RU Index	ANT0							ANT1						
		Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	53	0.00	0.00	-25.98	3.05	9.98	8.16	-12.95	-4.79	-24.69	3.07	10.09	8.16	-11.53	-3.37
	56	0.00	0.00	-25.40	3.05	9.98	8.16	-12.37	-4.21	-24.85	3.07	10.09	8.16	-11.69	-3.53
	60	0.00	0.00	-27.55	3.05	9.98	8.16	-14.52	-6.36	-26.28	3.07	10.09	8.16	-13.12	-4.96
5290	53	0.00	0.00	-25.98	3.07	9.98	8.16	-12.93	-4.77	-25.09	3.09	10.09	8.16	-11.91	-3.75
	56	0.00	0.00	-26.23	3.07	9.98	8.16	-13.18	-5.02	-24.71	3.09	10.09	8.16	-11.53	-3.37
	60	0.00	0.00	-27.04	3.07	9.98	8.16	-13.99	-5.83	-26.20	3.09	10.09	8.16	-13.02	-4.86
5530	53	0.00	0.00	-24.16	3.14	9.98	6.55	-11.04	-4.49	-23.28	3.16	10.09	6.55	-10.03	-3.48
	56	0.00	0.00	-23.75	3.14	9.98	6.55	-10.63	-4.08	-22.90	3.16	10.09	6.55	-9.65	-3.10
	60	0.00	0.00	-24.15	3.14	9.98	6.55	-11.03	-4.48	-23.29	3.16	10.09	6.55	-10.04	-3.49
5610	53	0.00	0.00	-23.86	3.17	9.98	6.55	-10.70	-4.15	-23.25	3.18	10.09	6.55	-9.98	-3.43
	56	0.00	0.00	-23.84	3.17	9.98	6.55	-10.69	-4.14	-22.82	3.18	10.09	6.55	-9.55	-3.00
	60	0.00	0.00	-23.93	3.17	9.98	6.55	-10.78	-4.23	-23.36	3.18	10.09	6.55	-10.09	-3.54
5775	53	0.00	6.99	-36.58	3.21	9.98	6.07	-16.40	-10.33	-34.62	3.23	10.09	6.07	-14.31	-8.24
	56	0.00	6.99	-36.35	3.21	9.98	6.07	-16.16	-10.09	-35.57	3.23	10.09	6.07	-15.26	-9.19
	60	0.00	6.99	-35.53	3.21	9.98	6.07	-15.35	-9.28	-34.97	3.23	10.09	6.07	-14.66	-8.59

Sample Calculation:

PSD: Power Spectral Density

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

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

PSD Result (Conducted)[dBm/MHz] = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

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

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

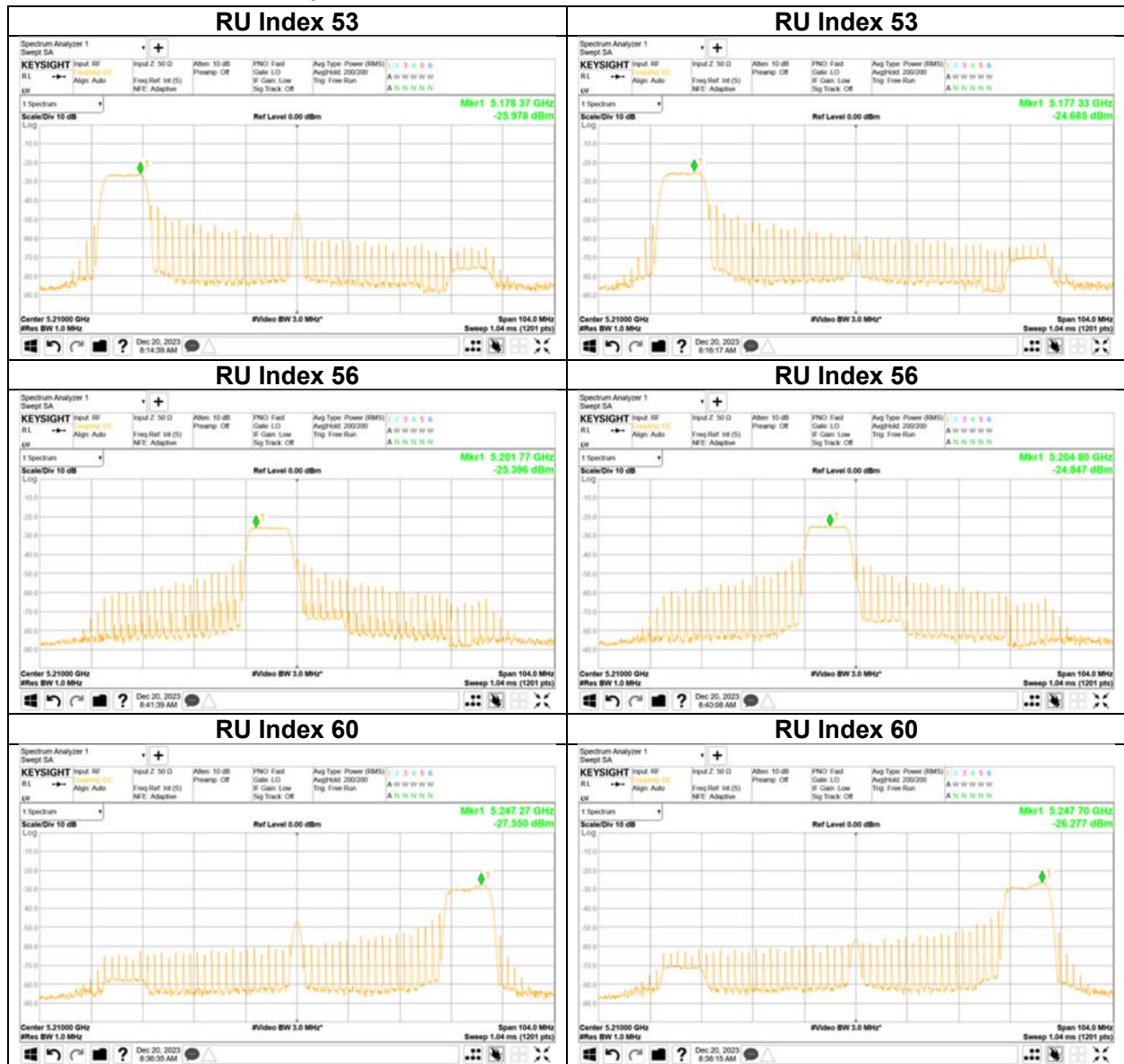
* The Duty Factor is 0 dB, since this measurement was performed only on the on time using the gate function of spectrum analyzer.

Maximum Power Spectral Density

11ax-80 (OFDMA)
106-tone RU 5210 MHz

ANT0

ANT1

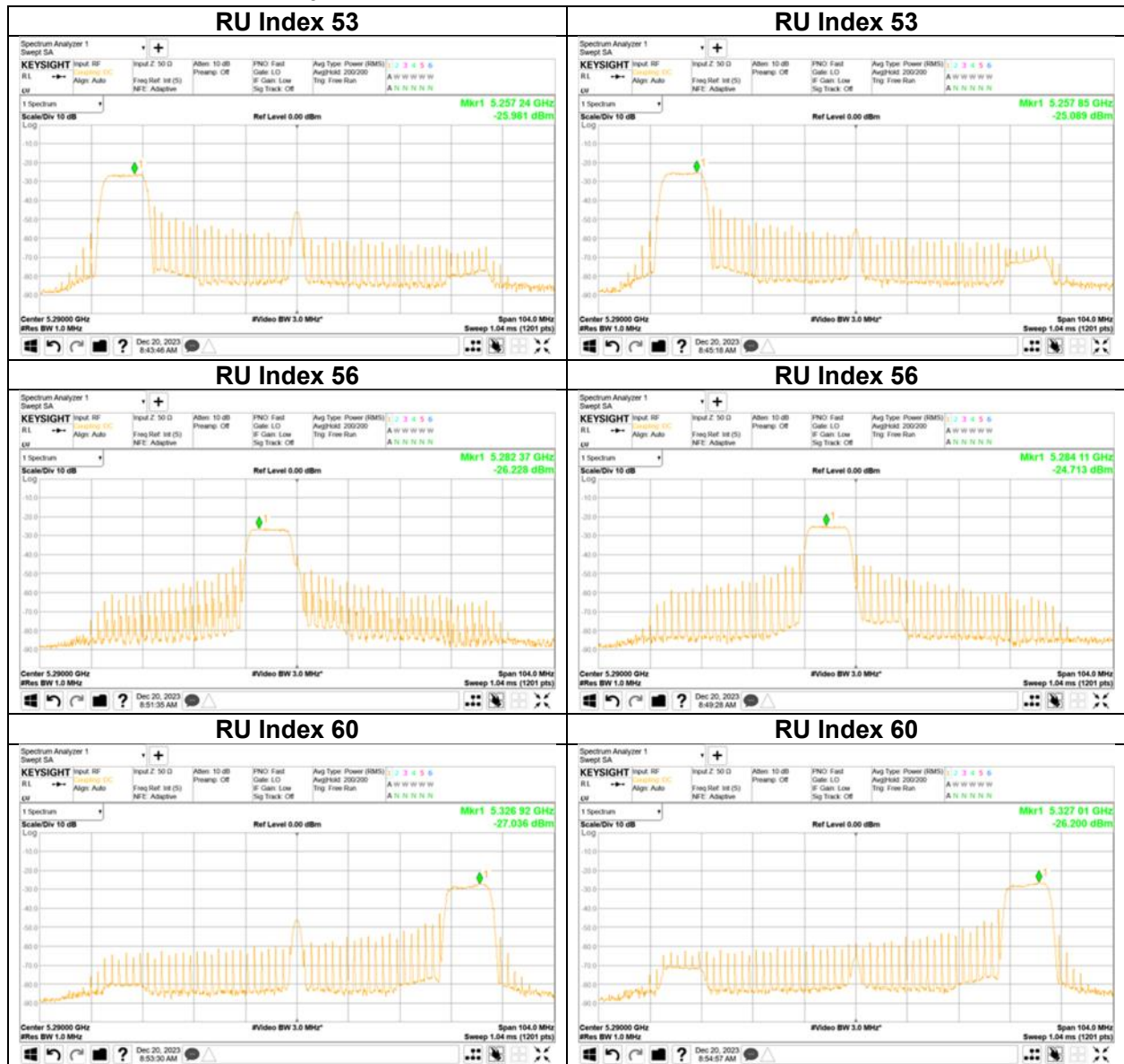


Maximum Power Spectral Density

11ax-80 (OFDMA)
106-tone RU 5290 MHz

ANT0

ANT1

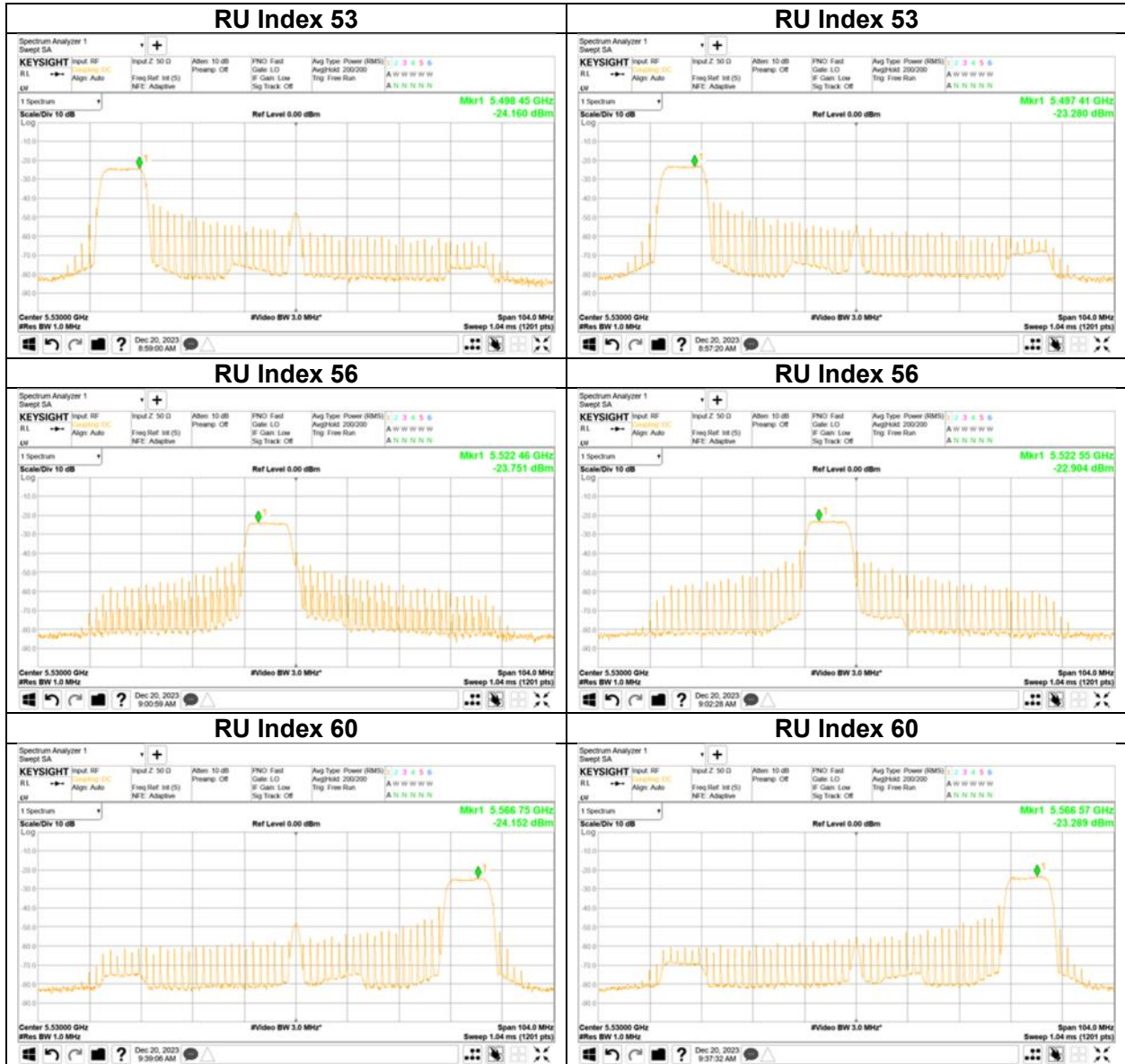


Maximum Power Spectral Density

11ax-80 (OFDMA)
106-tone RU 5530 MHz

ANT0

ANT1

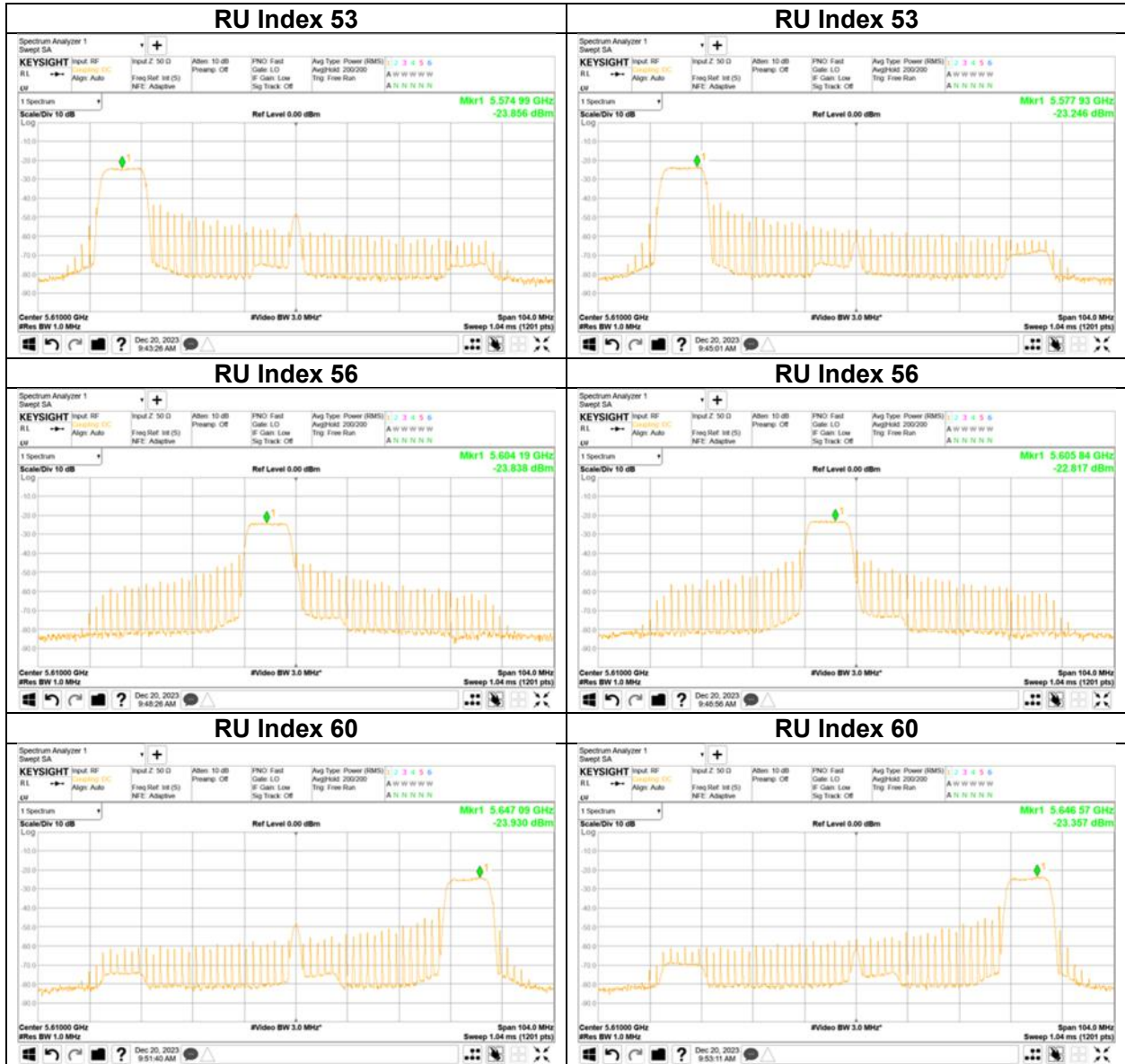


Maximum Power Spectral Density

11ax-80 (OFDMA)
106-tone RU 5610 MHz

ANT0

ANT1

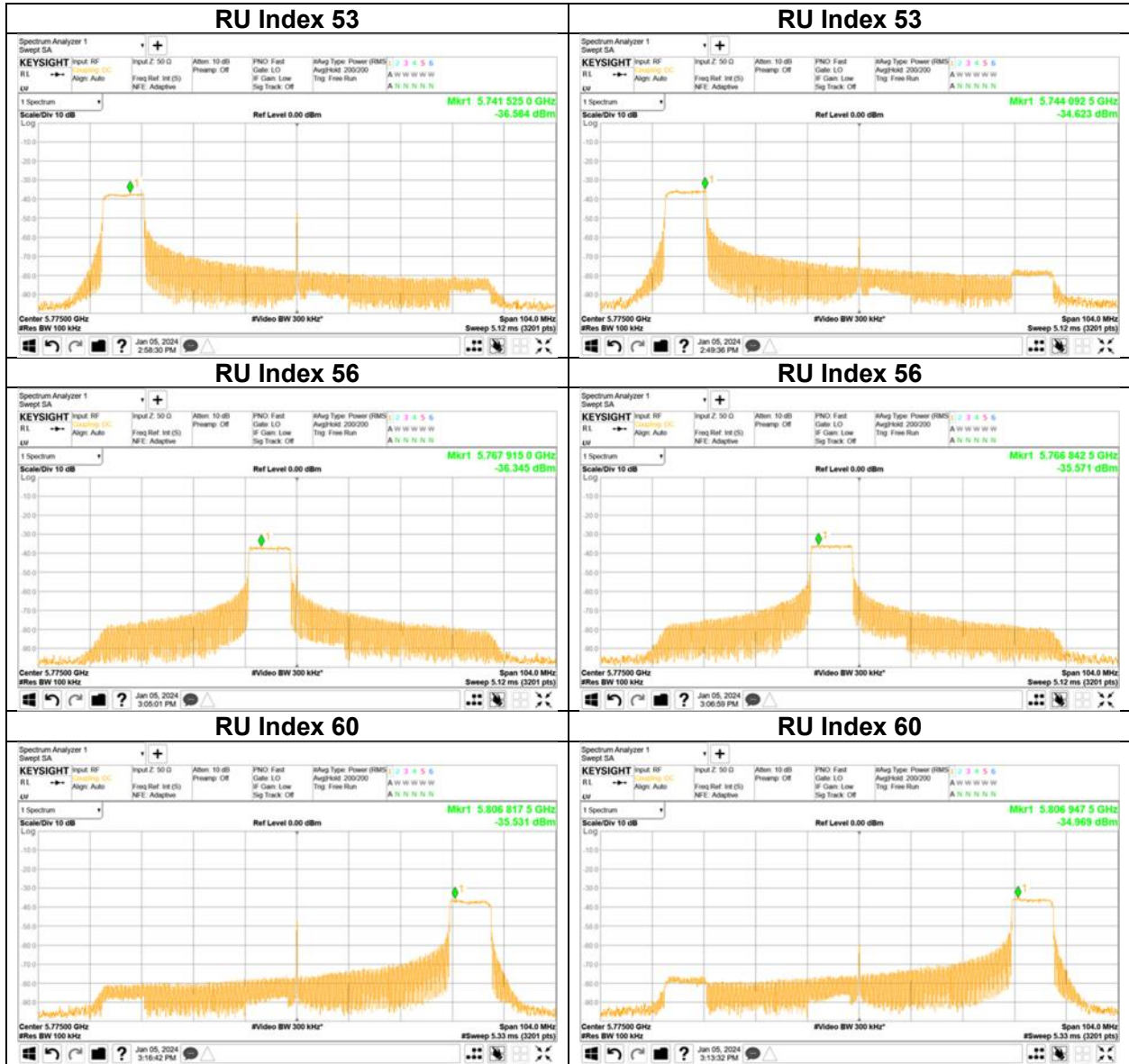


Maximum Power Spectral Density

11ax-80 (OFDMA)
106-tone RU 5775 MHz

ANT0

ANT1



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date December 20, 2023 January 5, 2024
Temperature / Humidity 21 deg. C / 31 % RH 22 deg.C / 27 %RH
Engineer Akihiro Oda Makoto Hosaka
Mode Tx 11ax-80 (OFDMA) 242-tone RU

ANT0 + ANT1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	PSD (Conducted)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]				ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]			
5210	61	0.05	0.06	0.11	-9.63	8.84	18.47	0.33	0.39	0.71	-1.47	17.00	18.47
	62	0.05	0.07	0.12	-9.29	8.84	18.13	0.31	0.46	0.77	-1.13	17.00	18.13
	64	0.05	0.06	0.11	-9.63	8.84	18.47	0.32	0.39	0.71	-1.47	17.00	18.47
5290	61	0.05	0.07	0.11	-9.45	8.84	18.29	0.30	0.44	0.74	-1.29	17.00	18.29
	62	0.05	0.07	0.12	-9.34	8.84	18.18	0.31	0.45	0.76	-1.18	17.00	18.18
	64	0.04	0.05	0.09	-10.28	8.84	19.12	0.26	0.35	0.61	-2.12	17.00	19.12
5530	61	0.08	0.10	0.18	-7.43	10.45	17.88	0.37	0.45	0.82	-0.88	17.00	17.88
	62	0.08	0.11	0.20	-7.08	10.45	17.53	0.37	0.51	0.88	-0.53	17.00	17.53
	64	0.08	0.10	0.18	-7.44	10.45	17.89	0.36	0.45	0.82	-0.89	17.00	17.89
5610	61	0.08	0.10	0.18	-7.35	10.45	17.80	0.36	0.47	0.83	-0.80	17.00	17.80
	62	0.08	0.11	0.19	-7.22	10.45	17.67	0.37	0.49	0.86	-0.67	17.00	17.67
	64	0.09	0.09	0.18	-7.47	10.45	17.92	0.39	0.42	0.81	-0.92	17.00	17.92
5775	61	0.02	0.03	0.05	-12.90	29.93	42.83	0.08	0.12	0.21	-6.83	36.00	42.83
	62	0.02	0.04	0.06	-12.33	29.93	42.26	0.09	0.14	0.24	-6.26	36.00	42.26
	64	0.02	0.03	0.06	-12.55	29.93	42.48	0.09	0.13	0.22	-6.48	36.00	42.48

Tested Frequency [MHz]	RU Index	ANT0							ANT1						
		Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Result
		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	e.i.r.p.	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	e.i.r.p.
5210	61	0.00	0.00	-26.03	3.05	9.98	8.16	-13.00	-4.84	-25.46	3.07	10.09	8.16	-12.30	-4.14
	62	0.00	0.00	-26.28	3.05	9.98	8.16	-13.25	-5.09	-24.69	3.07	10.09	8.16	-11.53	-3.37
	64	0.00	0.00	-26.08	3.05	9.98	8.16	-13.05	-4.89	-25.43	3.07	10.09	8.16	-12.27	-4.11
5290	61	0.00	0.00	-26.41	3.07	9.98	8.16	-13.36	-5.20	-24.90	3.09	10.09	8.16	-11.72	-3.56
	62	0.00	0.00	-26.31	3.07	9.98	8.16	-13.26	-5.10	-24.78	3.09	10.09	8.16	-11.60	-3.44
	64	0.00	0.00	-27.03	3.07	9.98	8.16	-13.98	-5.82	-25.88	3.09	10.09	8.16	-12.70	-4.54
5530	61	0.00	0.00	-24.03	3.14	9.98	6.55	-10.91	-4.36	-23.26	3.16	10.09	6.55	-10.01	-3.46
	62	0.00	0.00	-23.97	3.14	9.98	6.55	-10.85	-4.30	-22.70	3.16	10.09	6.55	-9.45	-2.90
	64	0.00	0.00	-24.07	3.14	9.98	6.55	-10.95	-4.40	-23.25	3.16	10.09	6.55	-10.00	-3.45
5610	61	0.00	0.00	-24.15	3.17	9.98	6.55	-11.00	-4.45	-23.08	3.18	10.09	6.55	-9.81	-3.26
	62	0.00	0.00	-24.03	3.17	9.98	6.55	-10.88	-4.33	-22.93	3.18	10.09	6.55	-9.66	-3.11
	64	0.00	0.00	-23.81	3.17	9.98	6.55	-10.66	-4.11	-23.59	3.18	10.09	6.55	-10.32	-3.77
5775	61	0.00	6.99	-36.97	3.21	9.98	6.07	-16.79	-10.72	-35.49	3.23	10.09	6.07	-15.18	-9.11
	62	0.00	6.99	-36.56	3.21	9.98	6.07	-16.38	-10.31	-34.82	3.23	10.09	6.07	-14.51	-8.44
	64	0.00	6.99	-36.56	3.21	9.98	6.07	-16.38	-10.31	-35.18	3.23	10.09	6.07	-14.87	-8.80

Sample Calculation:

PSD: Power Spectral Density

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

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

PSD Result (Conducted)[dBm/MHz] = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

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

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

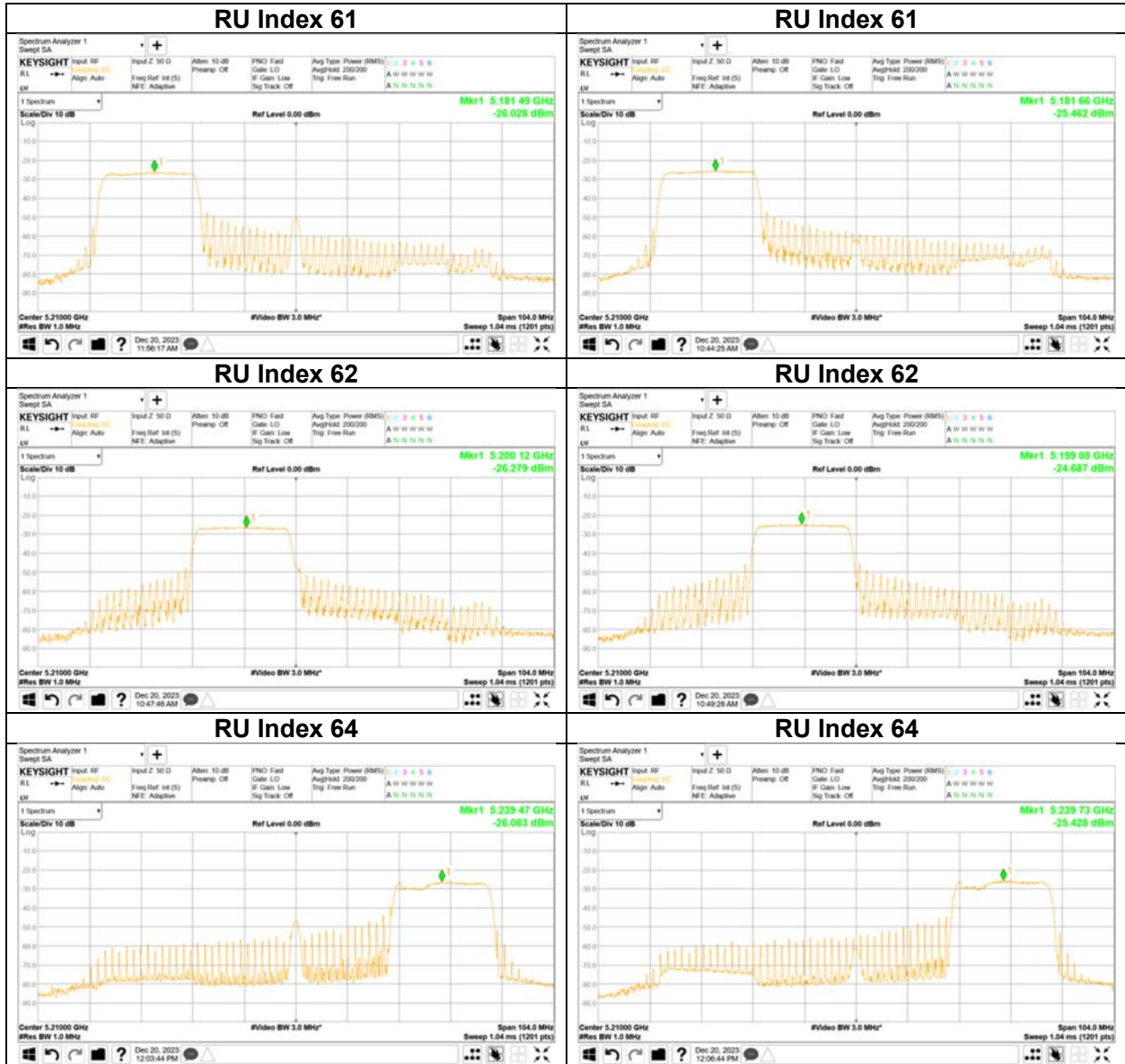
* The Duty Factor is 0 dB, since this measurement was performed only on the on time using the gate function of spectrum analyzer.

Maximum Power Spectral Density

11ax-80 (OFDMA)
242-tone RU 5210 MHz

ANT0

ANT1

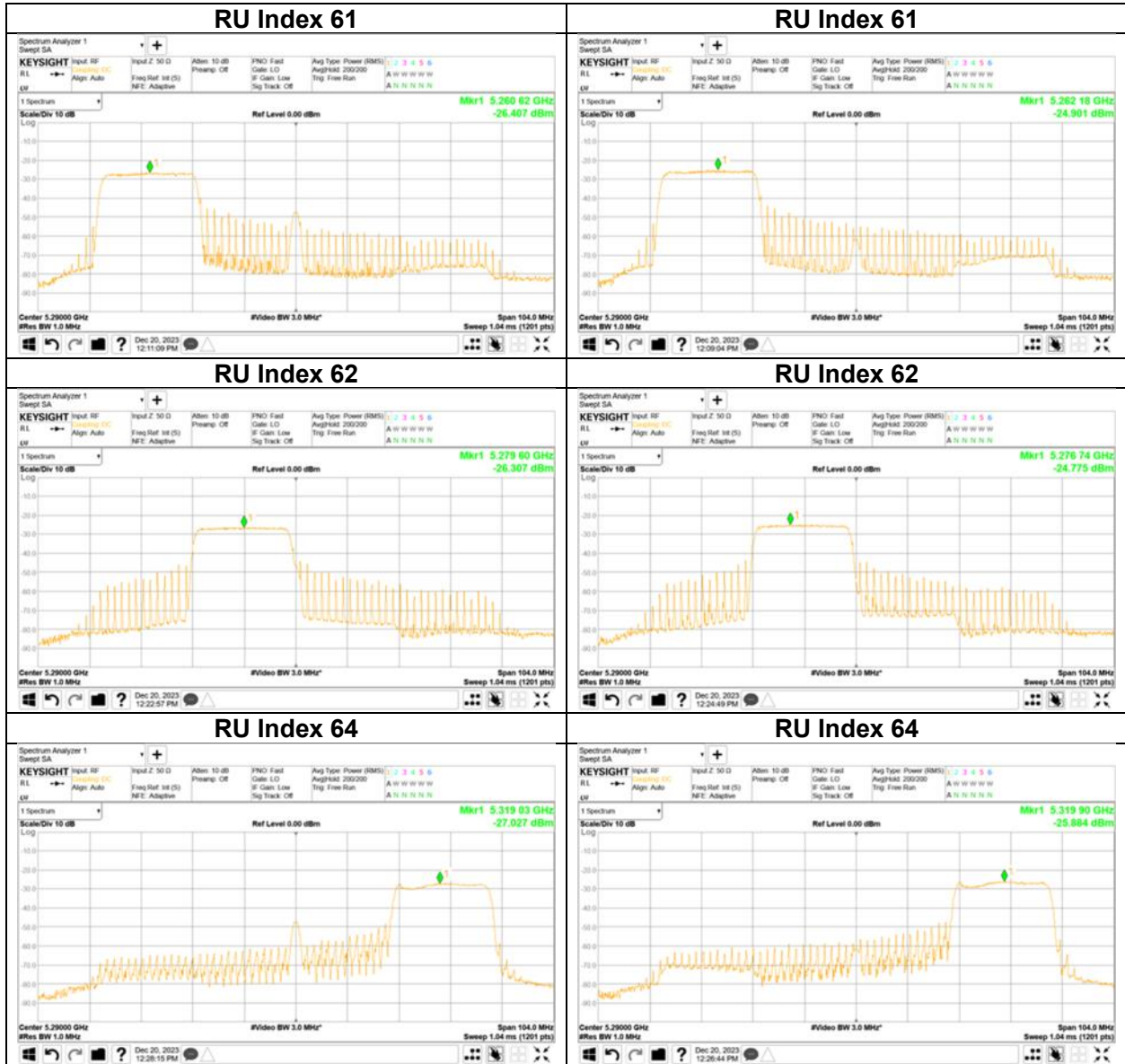


Maximum Power Spectral Density

11ax-80 (OFDMA)
242-tone RU 5290 MHz

ANT0

ANT1

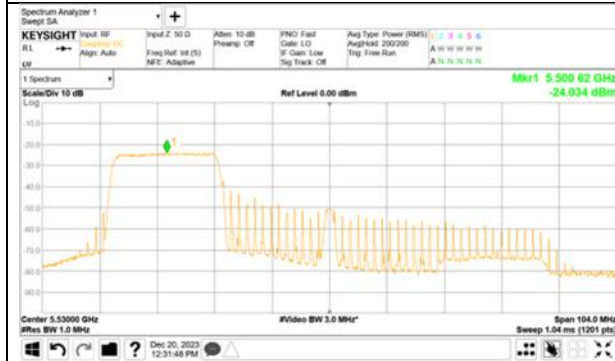


Maximum Power Spectral Density

11ax-80 (OFDMA)
242-tone RU 5530 MHz

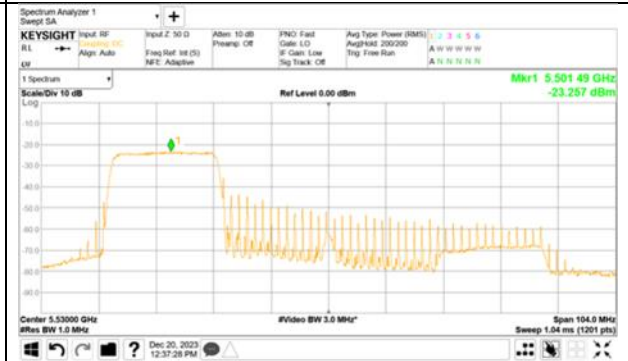
ANT0

RU Index 61

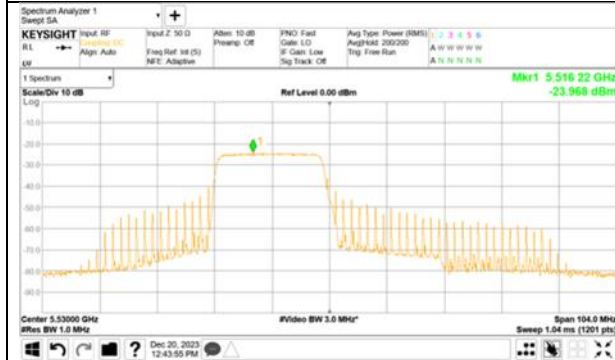


ANT1

RU Index 61



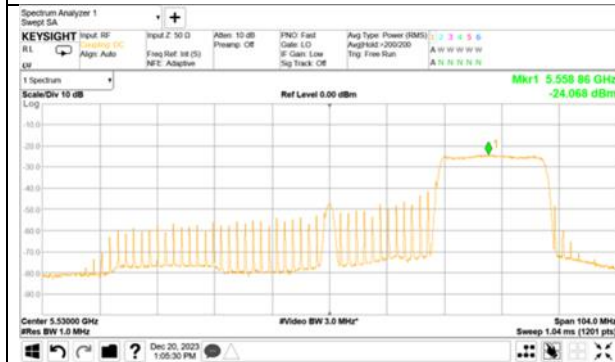
RU Index 62



RU Index 62



RU Index 64



RU Index 64

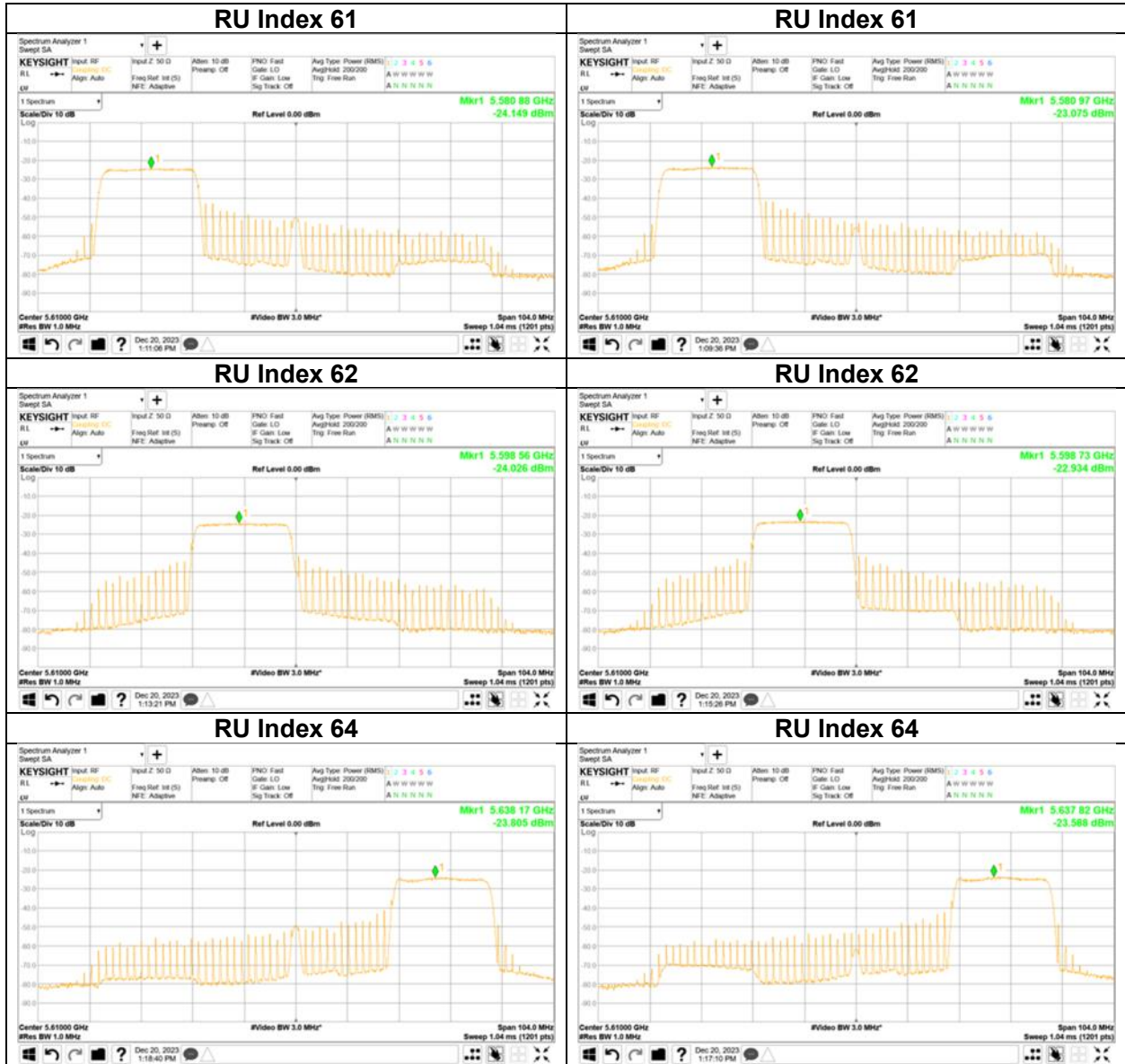


Maximum Power Spectral Density

11ax-80 (OFDMA)
242-tone RU 5610 MHz

ANT0

ANT1

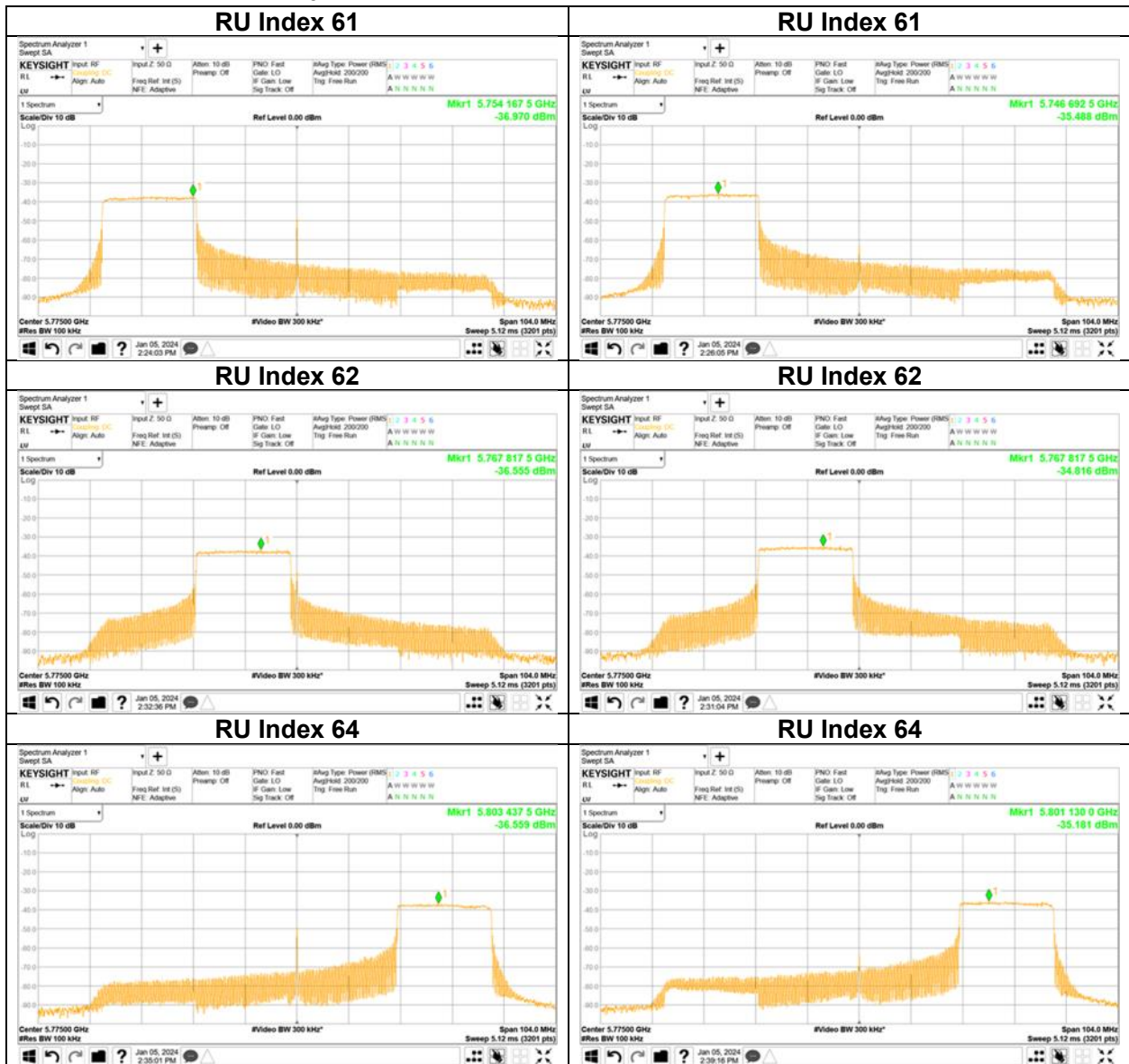


Maximum Power Spectral Density

11ax-80 (OFDMA)
242-tone RU 5775 MHz

ANT0

ANT1



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 5, 2024
Temperature / Humidity 22 deg. C / 27 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-80 (OFDMA) 484-tone RU

ANT0 + ANT1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	PSD (Conducted)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]				ANT0 [mW/MHz]	ANT1 [mW/MHz]	2 port [mW/MHz]			
5210	65	0.04	0.06	0.10	-10.17	8.84	19.01	0.27	0.36	0.63	-2.01	17.00	19.01
	66	0.04	0.06	0.10	-10.19	8.84	19.03	0.25	0.38	0.63	-2.03	17.00	19.03
5290	65	0.04	0.05	0.09	-10.44	8.84	19.28	0.24	0.35	0.59	-2.28	17.00	19.28
	66	0.04	0.05	0.09	-10.42	8.84	19.26	0.25	0.35	0.59	-2.26	17.00	19.26
5530	65	0.06	0.09	0.14	-8.42	10.45	18.87	0.26	0.39	0.65	-1.87	17.00	18.87
	66	0.07	0.10	0.17	-7.73	10.45	18.18	0.31	0.45	0.76	-1.18	17.00	18.18
5610	65	0.06	0.09	0.16	-8.08	10.45	18.53	0.29	0.41	0.70	-1.53	17.00	18.53
	66	0.07	0.10	0.17	-7.74	10.45	18.19	0.30	0.46	0.76	-1.19	17.00	18.19
5775	65	0.01	0.03	0.04	-13.61	29.93	43.54	0.06	0.12	0.18	-7.54	36.00	43.54
	66	0.02	0.03	0.05	-13.16	29.93	43.09	0.08	0.12	0.20	-7.09	36.00	43.09

				ANT0						ANT1					
Tested Frequency	RU Index	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	65	0.00	0.00	-26.92	3.05	9.98	8.16	-13.89	-5.73	-25.73	3.07	10.09	8.16	-12.57	-4.41
	66	0.00	0.00	-27.26	3.05	9.98	8.16	-14.23	-6.07	-25.53	3.07	10.09	8.16	-12.37	-4.21
5290	65	0.00	0.00	-27.32	3.07	9.98	8.16	-14.27	-6.11	-25.93	3.09	10.09	8.16	-12.76	-4.60
	66	0.00	0.00	-27.32	3.07	9.98	8.16	-14.26	-6.10	-25.92	3.09	10.09	8.16	-12.74	-4.58
5530	65	0.00	0.00	-25.48	3.14	9.98	6.55	-12.36	-5.81	-23.92	3.16	10.09	6.55	-10.67	-4.12
	66	0.00	0.00	-24.70	3.14	9.98	6.55	-11.58	-5.03	-23.29	3.16	10.09	6.55	-10.04	-3.49
5610	65	0.00	0.00	-25.09	3.17	9.98	6.55	-11.94	-5.39	-23.64	3.18	10.09	6.55	-10.37	-3.82
	66	0.00	0.00	-24.91	3.17	9.98	6.55	-11.76	-5.21	-23.20	3.18	10.09	6.55	-9.93	-3.38
5775	65	0.00	6.99	-38.64	3.21	9.98	6.07	-18.46	-12.39	-35.64	3.23	10.09	6.07	-15.33	-9.26
	66	0.00	6.99	-37.31	3.21	9.98	6.07	-17.13	-11.06	-35.70	3.23	10.09	6.07	-15.39	-9.32

Sample Calculation:

PSD: Power Spectral Density

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

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

PSD Result (Conducted)[dBm/MHz] = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.)[dBm/MHz] = Conducted PSD Result + Antenna Gain

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

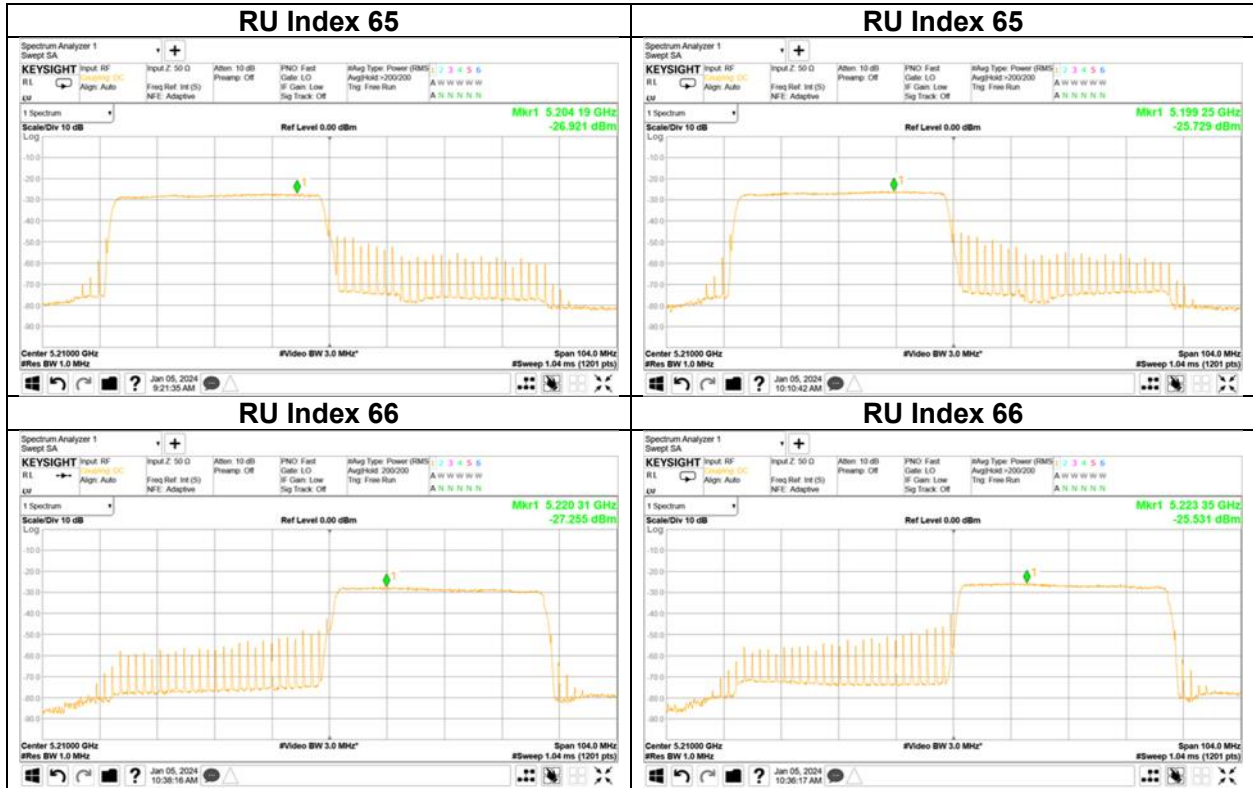
* The Duty Factor is 0 dB, since this measurement was performed only on the on time using the gate function of spectrum analyzer.

Maximum Power Spectral Density

11ax-80 (OFDMA)
484-tone RU 5210 MHz

ANT0

ANT1

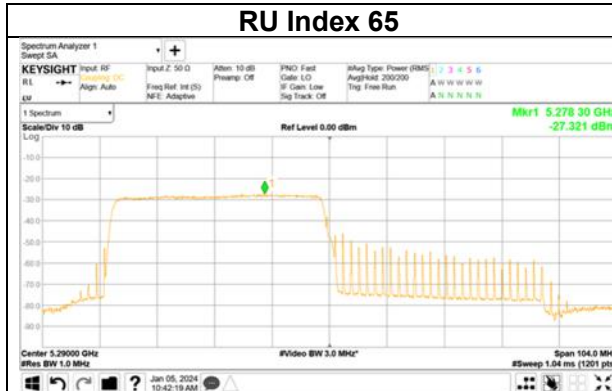


Maximum Power Spectral Density

11ax-80 (OFDMA)
484-tone RU 5290 MHz

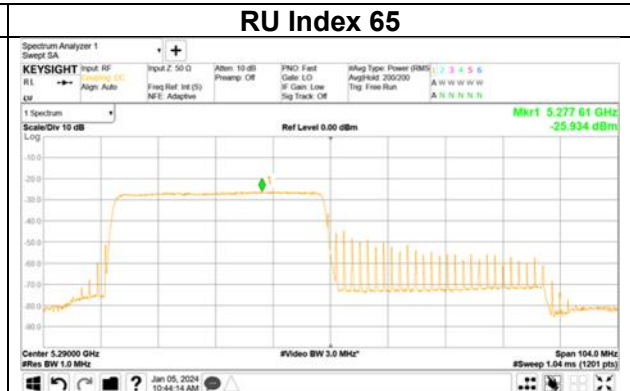
ANT0

RU Index 65

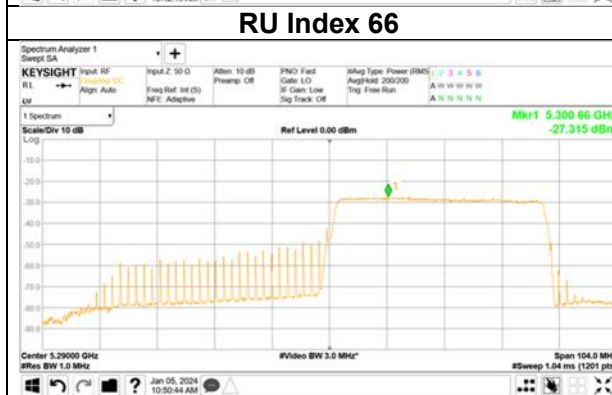


ANT1

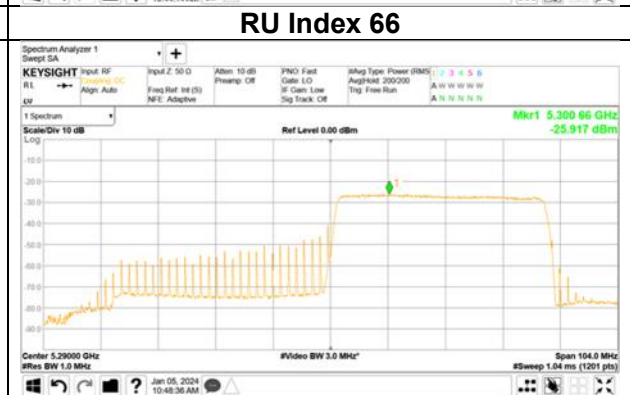
RU Index 65



RU Index 66



RU Index 66

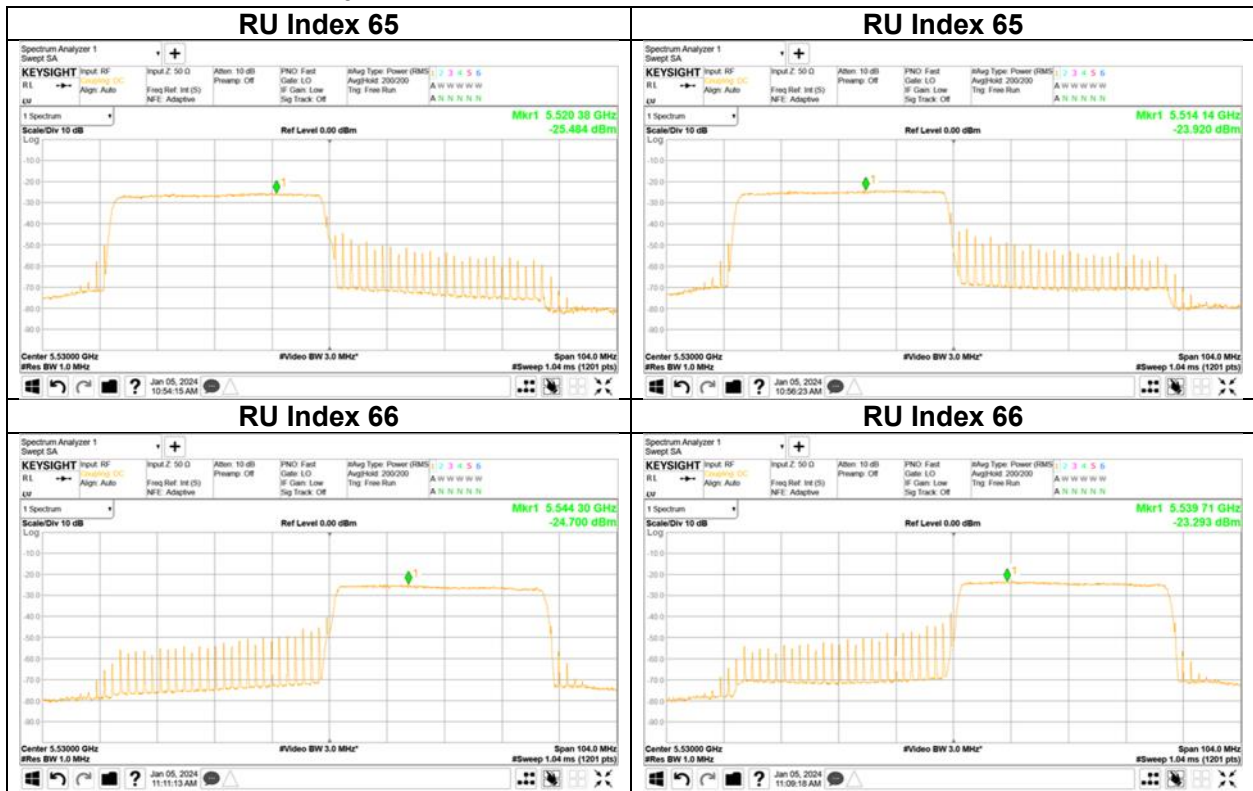


Maximum Power Spectral Density

11ax-80 (OFDMA)
484-tone RU 5530 MHz

ANT0

ANT1

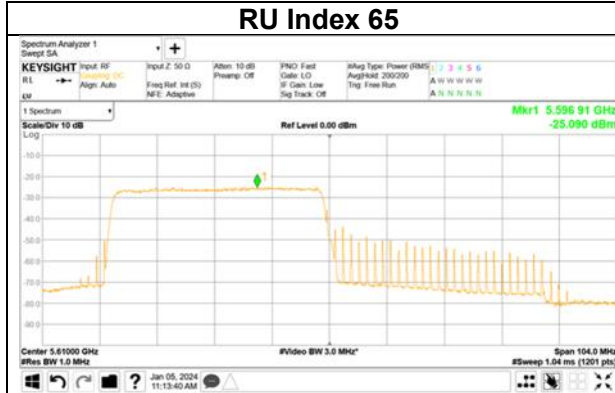


Maximum Power Spectral Density

11ax-80 (OFDMA)
484-tone RU 5610 MHz

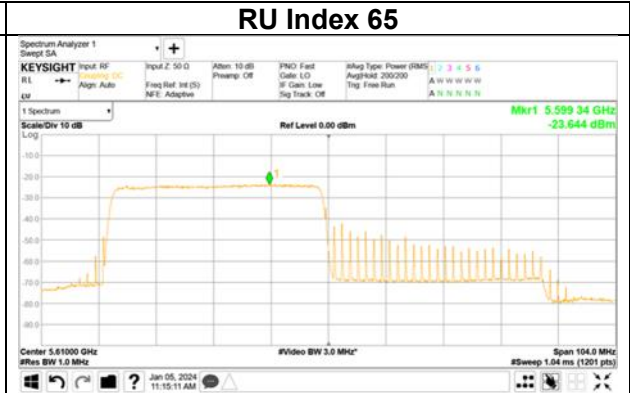
ANT0

RU Index 65

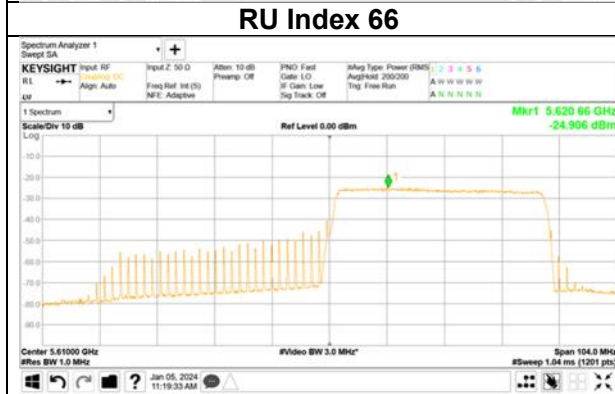


ANT1

RU Index 65



RU Index 66



RU Index 66

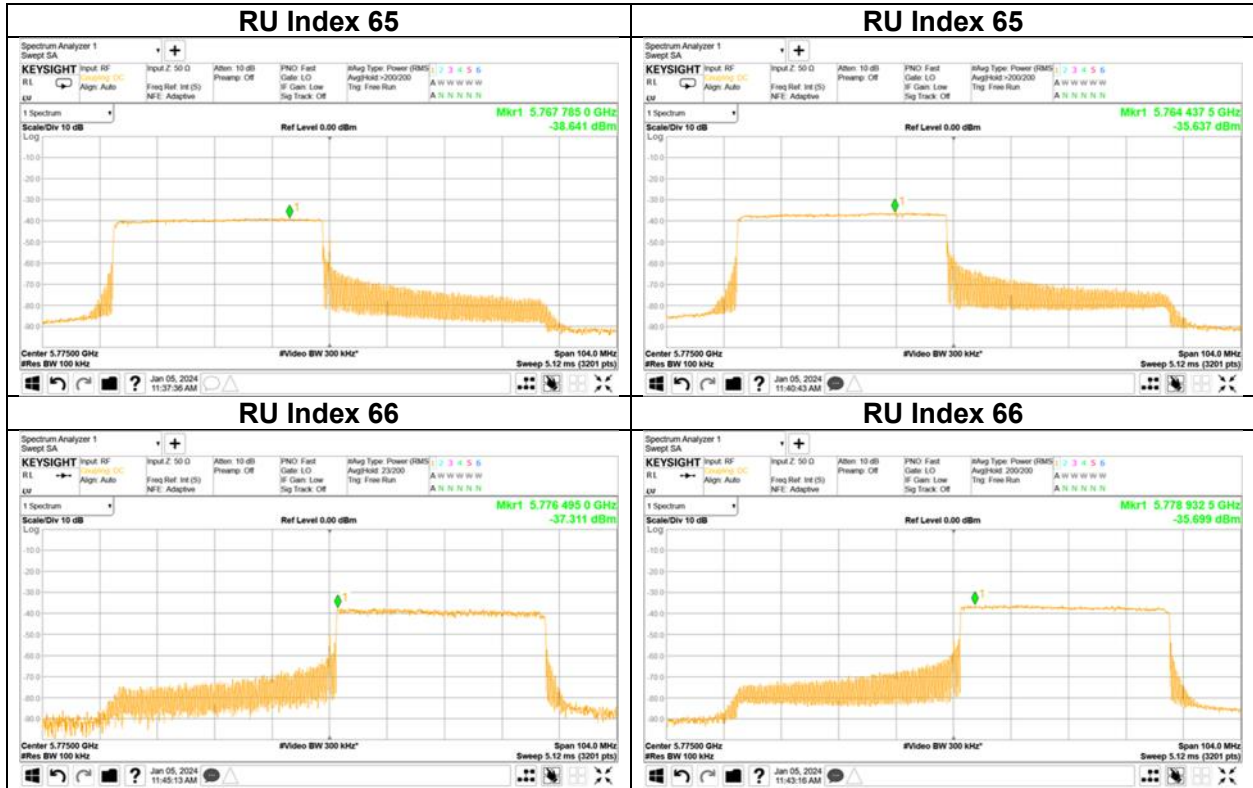


Maximum Power Spectral Density

11ax-80 (OFDMA)
484-tone RU 5775 MHz

ANT0

ANT1



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date January 5, 2024
Temperature / Humidity 22 deg. C / 27 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-80 (OFDMA) 996-tone RU

ANT0 + ANT1

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	RU Index	PSD (Conducted)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		ANT0	ANT1	Sum				ANT0	ANT1	Sum			
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5210	67	0.03	0.05	0.08	-10.88	8.84	19.72	0.21	0.33	0.53	-2.72	17.00	19.72
5290	67	0.03	0.04	0.07	-11.48	8.84	20.32	0.18	0.28	0.47	-3.32	17.00	20.32
5530	67	0.05	0.08	0.13	-9.00	10.45	19.45	0.23	0.34	0.57	-2.45	17.00	19.45
5610	67	0.05	0.07	0.13	-9.00	10.45	19.45	0.24	0.33	0.57	-2.45	17.00	19.45
5775	67	0.01	0.03	0.04	-13.92	29.93	43.85	0.06	0.11	0.16	-7.85	36.00	43.85

				ANT0						ANT1					
Tested Frequency	RU Index	Duty Factor	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	67	0.00	0.00	-28.03	3.05	9.98	8.16	-15.00	-6.84	-26.17	3.07	10.09	8.16	-13.02	-4.86
5290	67	0.00	0.00	-28.61	3.07	9.98	8.16	-15.56	-7.40	-26.81	3.09	10.09	8.16	-13.63	-5.47
5530	67	0.00	0.00	-26.12	3.14	9.98	6.55	-12.99	-6.44	-24.46	3.16	10.09	6.55	-11.20	-4.65
5610	67	0.00	0.00	-25.90	3.17	9.98	6.55	-12.76	-6.21	-24.66	3.18	10.09	6.55	-11.38	-4.83
5775	67	0.00	6.99	-38.59	3.21	9.98	6.07	-18.41	-12.34	-36.15	3.23	10.10	6.07	-15.84	-9.77

Sample Calculation:

PSD: Power Spectral Density

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

RBW Correction Factor = $10 \cdot \log$ (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

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

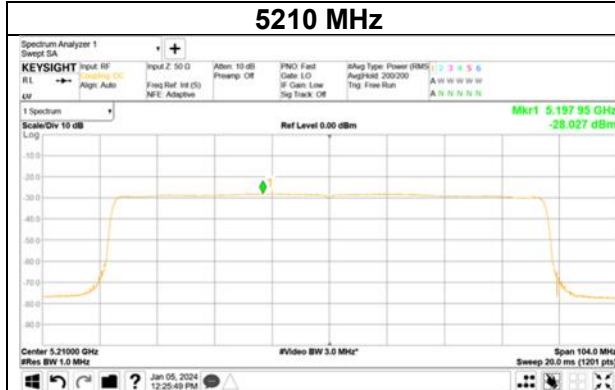
* The Duty Factor is 0 dB, since this measurement was performed only on the on time using the gate function of spectrum analyzer.

Maximum Power Spectral Density

11ax-80 (OFDMA)
996-tone RU
RU Index 67

ANT0

5210 MHz



ANT1

5210 MHz



5290 MHz



5290 MHz



5530 MHz

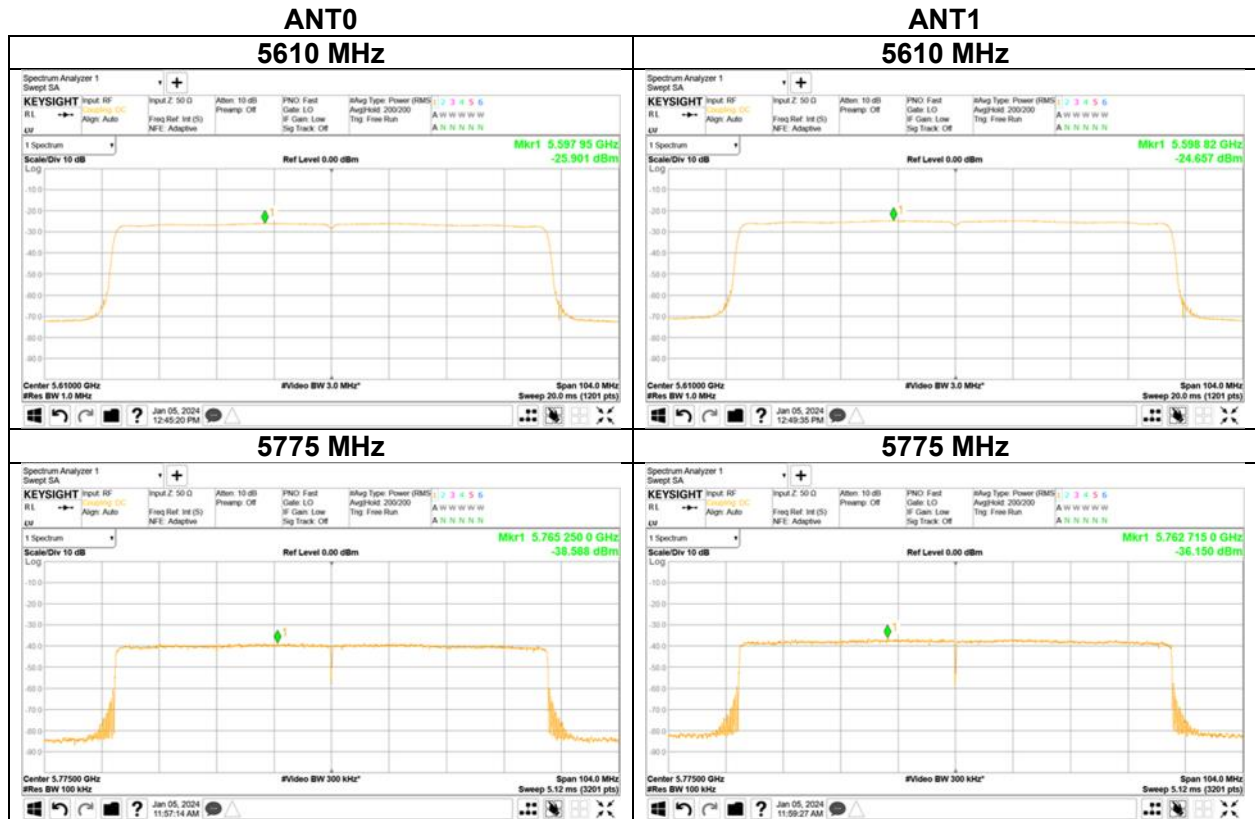


5530 MHz



Maximum Power Spectral Density

11ax-80 (OFDMA)
996-tone RU
RU Index 67



Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date June 14, 2023
Temperature / Humidity 24 deg.C, 50 %RH
Engineer Shiro Kobayashi
 (1 GHz - 6.4 GHz)
Mode Tx 11a, 5180 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.14	32.16	16.74	43.07	2.49	57.46	73.9	16.4	208	182	-
Hori.	5150.000	AV	38.67	32.16	16.74	43.07	2.49	46.99	53.9	6.9	208	182	VBW:3.6 kHz
Vert.	5150.000	PK	48.66	32.16	16.74	43.07	2.49	56.98	73.9	16.9	209	145	-
Vert.	5150.000	AV	38.61	32.16	16.74	43.07	2.49	46.93	53.9	6.9	209	145	VBW:3.6 kHz

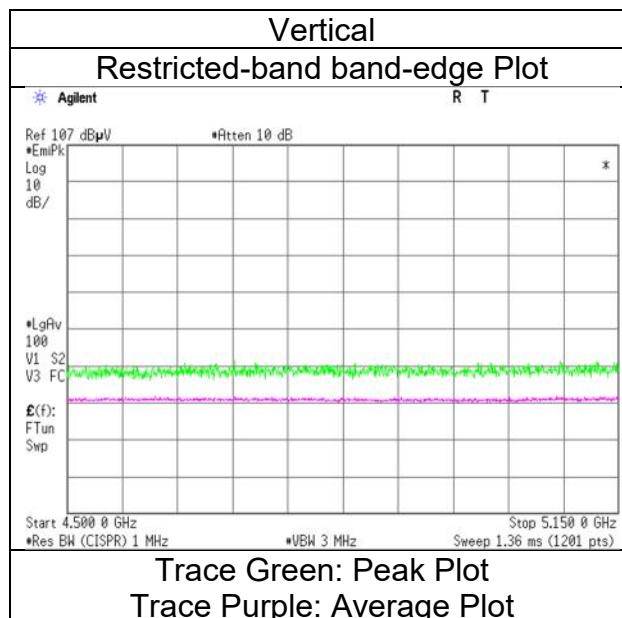
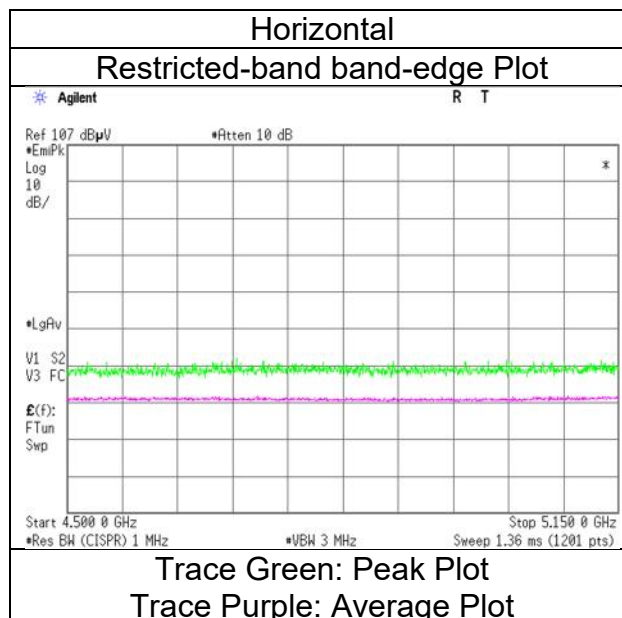
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	June 14, 2023
Temperature / Humidity	24 deg.C, 50 %RH
Engineer	Shiro Kobayashi
Mode	Tx 11a, 5180 MHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date July 11, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11a, 5320 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.82	31.98	16.87	43.30	2.49	56.86	73.9	17.0	213	176	-
Hori.	5350.000	AV	38.81	31.98	16.87	43.30	2.49	46.85	53.9	7.0	213	176	VBW:3.6 kHz
Vert.	5350.000	PK	50.12	31.98	16.87	43.30	2.49	58.16	73.9	15.7	226	147	-
Vert.	5350.000	AV	38.84	31.98	16.87	43.30	2.49	46.88	53.9	7.0	226	147	VBW:3.6 kHz

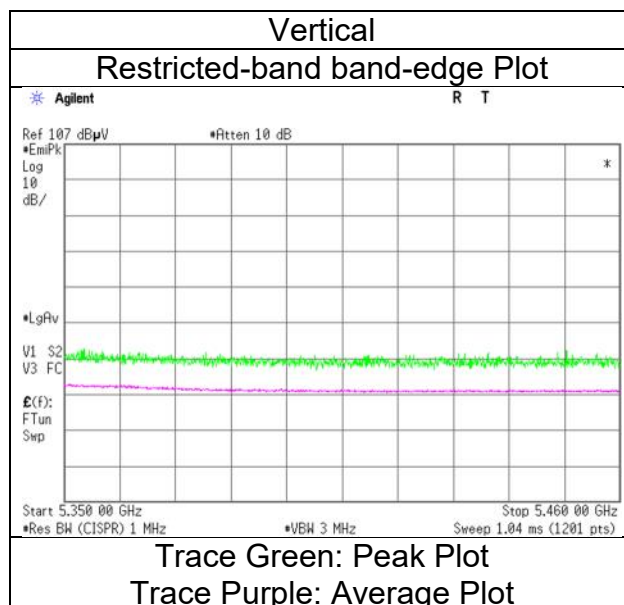
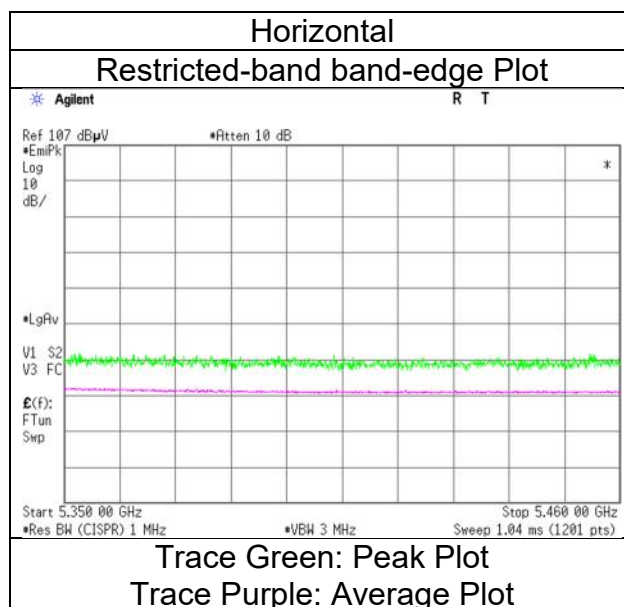
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	July 11, 2023
Temperature / Humidity	23 deg.C, 50 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11a, 5320 MHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date July 11, 2023
Temperature / Humidity 23 deg.C, 50 %RH
Engineer Yohsuke Matsuzawa
 (1 GHz -6.4 GHz)
Mode Tx 11a, 5500 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.88	32.24	16.94	43.42	2.49	58.13	73.9	15.7	174	269	-
Hori.	5460.000	AV	37.86	32.24	16.94	43.42	2.49	46.11	53.9	7.7	174	269	VBW:3.6 kHz
Vert.	5460.000	PK	49.58	32.24	16.94	43.42	2.49	57.83	73.9	16.0	211	147	-
Vert.	5460.000	AV	38.84	32.24	16.94	43.42	2.49	47.09	53.9	6.8	211	147	VBW:3.6 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.17	32.25	16.95	43.44	2.49	58.42	-36.81	-27.0	9.8	174	269	-
Vert.	5470.000	PK	49.83	32.25	16.95	43.44	2.49	58.08	-37.15	-27.0	10.1	211	147	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10 \wedge (\text{Electric Field Strength [dBuV/m]} / 20) * 10 \wedge (-6) * \text{Distance} : 3 [\text{m}]) \wedge 2 / 30 * 10 \wedge 3)$

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$