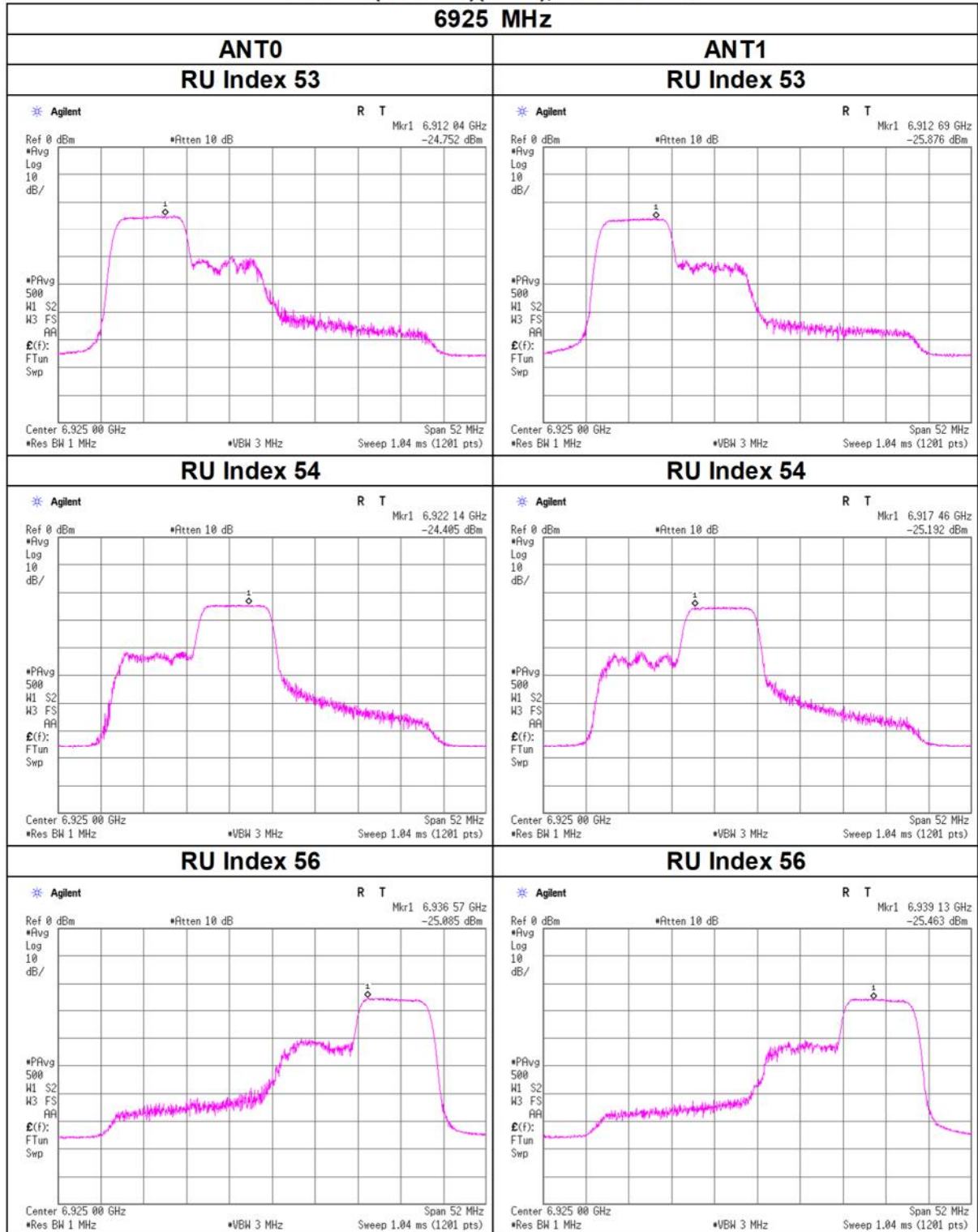


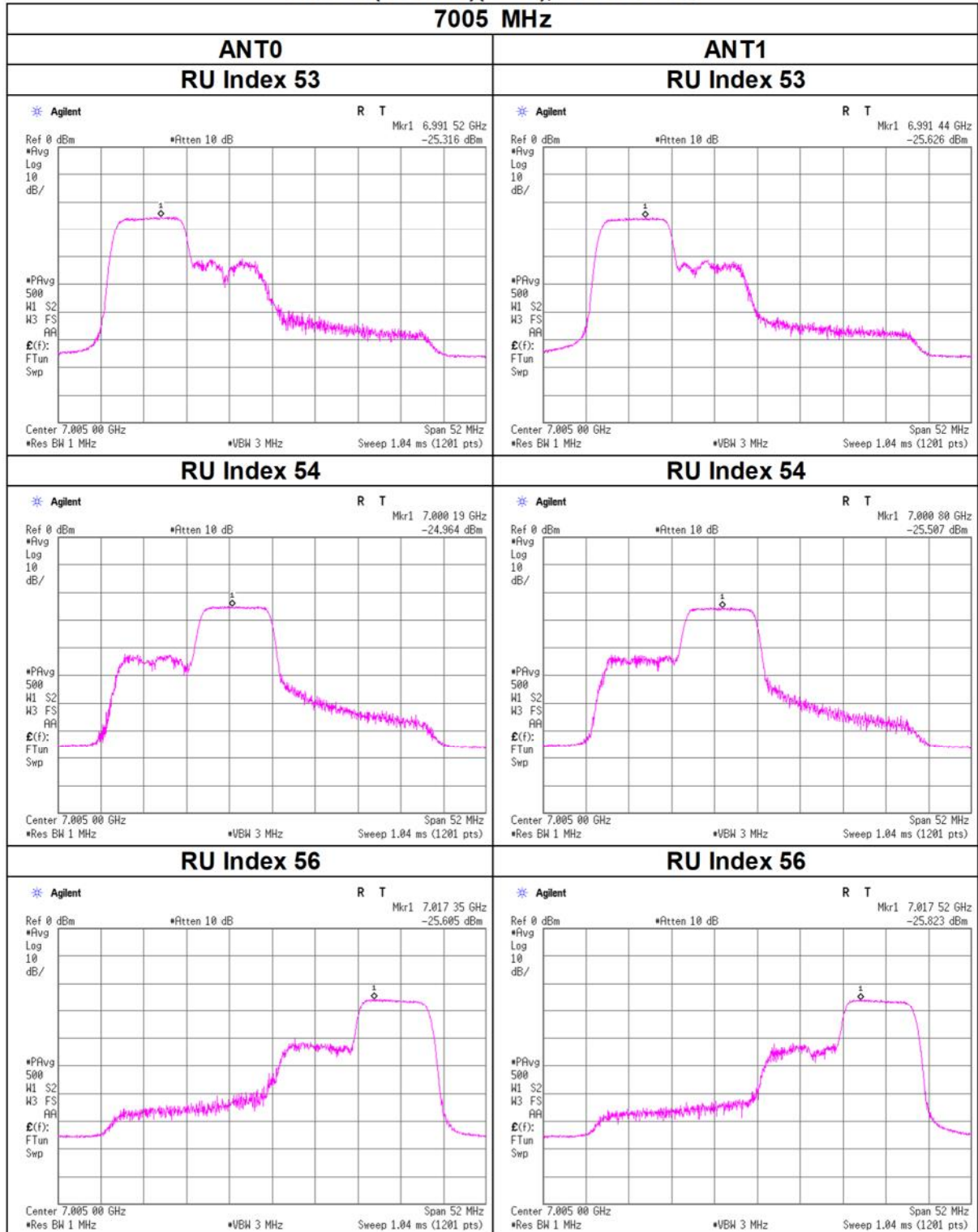
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 106-tone RU



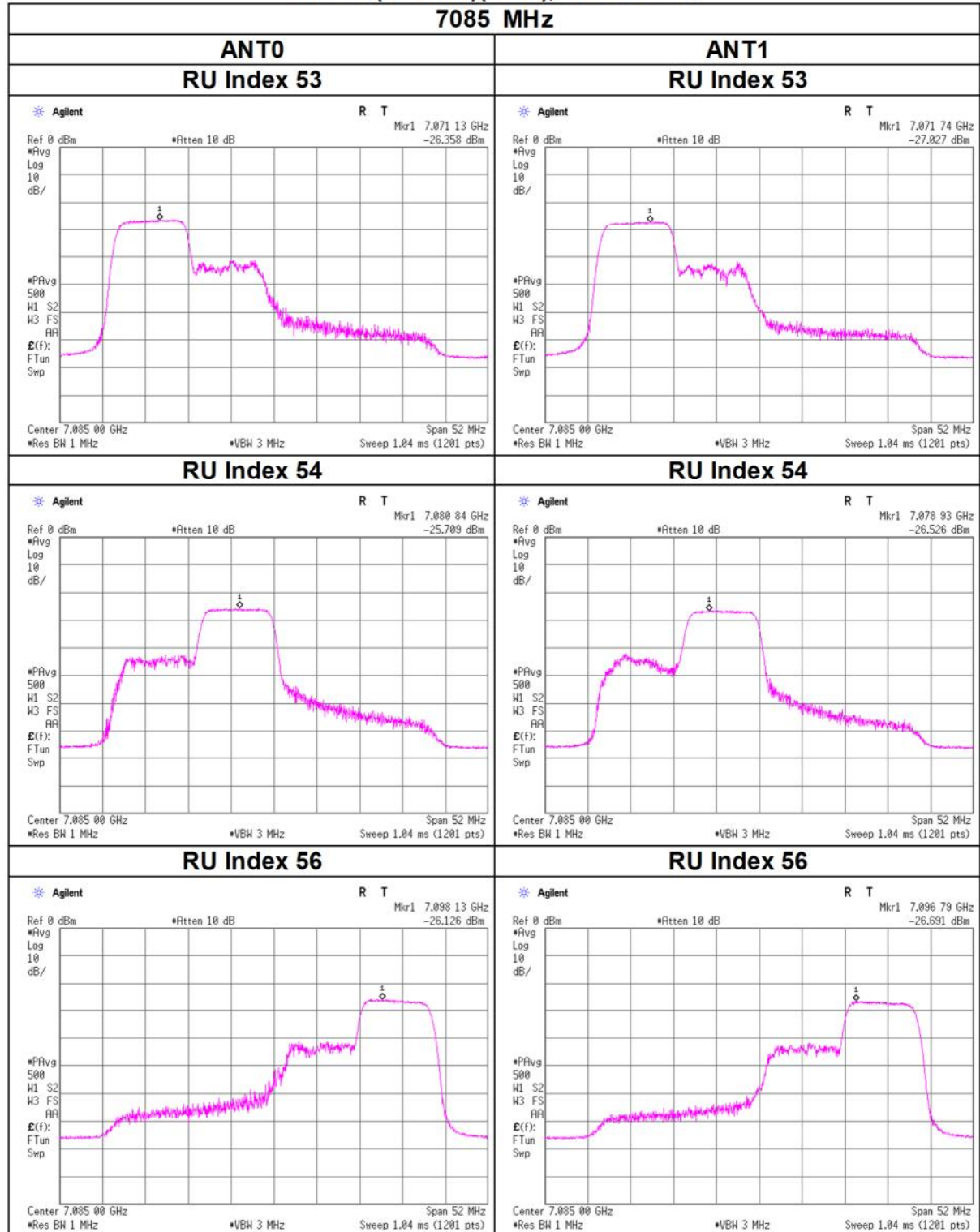
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 106-tone RU



Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 106-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 1, 2024
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-40 (OFDMA) 242-tone RU (SDM)

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						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]
5965	61	0.15	0.17	0.32	-4.96	-	-	0.22	0.24	0.46	-3.35	-1.00	2.35
	62	0.15	0.17	0.32	-4.96	-	-	0.22	0.25	0.46	-3.35	-1.00	2.35
6205	61	0.15	0.17	0.32	-4.94	-	-	0.21	0.25	0.46	-3.33	-1.00	2.33
	62	0.15	0.18	0.33	-4.79	-	-	0.22	0.26	0.48	-3.18	-1.00	2.18
6405	61	0.13	0.15	0.28	-5.50	-	-	0.19	0.22	0.41	-3.89	-1.00	2.89
	62	0.17	0.20	0.37	-4.38	-	-	0.24	0.29	0.53	-2.77	-1.00	1.77
6445	61	0.14	0.22	0.36	-4.44	-	-	0.21	0.31	0.52	-2.83	-1.00	1.83
	62	0.14	0.23	0.37	-4.29	-	-	0.21	0.33	0.54	-2.68	-1.00	1.68
6485	61	0.14	0.21	0.36	-4.49	-	-	0.21	0.31	0.52	-2.88	-1.00	1.88
	62	0.15	0.20	0.34	-4.63	-	-	0.21	0.28	0.50	-3.02	-1.00	2.02
6525	61	0.14	0.21	0.35	-4.52	-	-	0.20	0.31	0.51	-2.91	-1.00	1.91
	62	0.15	0.21	0.36	-4.38	-	-	0.22	0.31	0.53	-2.77	-1.00	1.77

ANT0									ANT1					
Tested Frequency	RU Index	Duty Factor	PSD	Cable	Atten.	Antenn	PSD Result		PSD	Cable	Atten.	Antenn	PSD Result	
			Reading	Loss	Loss	Gain	Cond.	e.i.r.p.	Reading	Loss	Loss	Gain	Cond.	e.i.r.p.
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5965	61	0.07	-19.87	1.36	10.22	1.61	-8.22	-6.61	-19.07	1.34	9.94	1.61	-7.73	-6.12
	62	0.07	-19.89	1.36	10.22	1.61	-8.24	-6.63	-19.06	1.34	9.94	1.61	-7.72	-6.11
6205	61	0.07	-20.05	1.39	10.23	1.61	-8.36	-6.75	-18.96	1.36	9.94	1.61	-7.58	-5.97
	62	0.07	-19.81	1.39	10.23	1.61	-8.13	-6.52	-18.88	1.36	9.94	1.61	-7.50	-5.89
6405	61	0.07	-20.57	1.41	10.23	1.61	-8.86	-7.25	-19.60	1.39	9.95	1.61	-8.19	-6.58
	62	0.07	-19.52	1.41	10.23	1.61	-7.81	-6.20	-18.41	1.39	9.95	1.61	-7.00	-5.39
6445	61	0.07	-20.17	1.42	10.23	1.61	-8.45	-6.84	-18.04	1.39	9.95	1.61	-6.63	-5.02
	62	0.07	-20.14	1.42	10.23	1.61	-8.42	-6.81	-17.83	1.39	9.95	1.61	-6.42	-4.81
6485	61	0.07	-20.17	1.42	10.23	1.61	-8.44	-6.83	-18.14	1.40	9.95	1.61	-6.73	-5.12
	62	0.07	-20.02	1.42	10.23	1.61	-8.30	-6.69	-18.48	1.40	9.95	1.61	-7.07	-5.46
6525	61	0.07	-20.30	1.43	10.23	1.61	-8.58	-6.97	-18.11	1.40	9.95	1.61	-6.68	-5.07
	62	0.07	-19.95	1.43	10.23	1.61	-8.22	-6.61	-18.11	1.40	9.95	1.61	-6.69	-5.08

Sample Calculation:

PSD: Power Spectral Density

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

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

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date March 1, 2024
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-40 (OFDMA) 242-tone RU (SDM)

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Antenna			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
		ANT0 [mW/MHz]	ANT1 [mW/MHz]	Sum [mW/MHz]				ANT0 [mW/MHz]	ANT1 [mW/MHz]	Sum [mW/MHz]			
6565	61	0.12	0.16	0.28	-5.50	-	-	0.14	0.18	0.32	-4.90	-1.00	3.90
	62	0.12	0.16	0.28	-5.59	-	-	0.14	0.18	0.32	-4.99	-1.00	3.99
6685	61	0.14	0.14	0.28	-5.56	-	-	0.16	0.16	0.32	-4.96	-1.00	3.96
	62	0.13	0.15	0.28	-5.47	-	-	0.15	0.17	0.33	-4.87	-1.00	3.87
6845	61	0.11	0.12	0.23	-6.36	-	-	0.12	0.14	0.27	-5.76	-1.00	4.76
	62	0.11	0.13	0.23	-6.29	-	-	0.12	0.15	0.27	-5.69	-1.00	4.69
6885	61	0.15	0.15	0.30	-5.25	-	-	0.17	0.18	0.34	-4.65	-1.00	3.65
	62	0.15	0.14	0.29	-5.38	-	-	0.17	0.16	0.33	-4.78	-1.00	3.78
6925	61	0.15	0.14	0.29	-5.31	-	-	0.17	0.16	0.34	-4.71	-1.00	3.71
	62	0.15	0.17	0.31	-5.02	-	-	0.17	0.19	0.36	-4.42	-1.00	3.42
7005	61	0.14	0.14	0.28	-5.60	-	-	0.16	0.16	0.32	-5.00	-1.00	4.00
	62	0.13	0.13	0.27	-5.71	-	-	0.15	0.15	0.31	-5.11	-1.00	4.11
7085	61	0.11	0.11	0.22	-6.63	-	-	0.13	0.12	0.25	-6.03	-1.00	5.03
	62	0.13	0.12	0.25	-6.10	-	-	0.15	0.13	0.28	-5.50	-1.00	4.50

ANT0									ANT1					
Tested Frequency	RU Index	Duty 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]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
6565	61	0.07	-20.84	1.43	10.23	0.60	-9.11	-8.51	-19.41	1.41	9.95	0.60	-7.98	-7.38
	62	0.07	-20.96	1.43	10.23	0.60	-9.23	-8.63	-19.47	1.41	9.95	0.60	-8.05	-7.45
6685	61	0.07	-20.43	1.44	10.23	0.60	-8.68	-8.08	-19.90	1.42	9.95	0.60	-8.46	-7.86
	62	0.07	-20.51	1.44	10.23	0.60	-8.76	-8.16	-19.65	1.42	9.95	0.60	-8.21	-7.61
6845	61	0.07	-21.47	1.46	10.23	0.60	-9.71	-9.11	-20.52	1.44	9.95	0.60	-9.06	-8.46
	62	0.07	-21.42	1.46	10.23	0.60	-9.65	-9.05	-20.45	1.44	9.95	0.60	-8.98	-8.38
6885	61	0.07	-20.13	1.47	10.23	0.60	-8.36	-7.76	-19.62	1.44	9.95	0.60	-8.15	-7.55
	62	0.07	-20.00	1.47	10.23	0.60	-8.23	-7.63	-20.02	1.44	9.95	0.60	-8.55	-7.95
6925	61	0.07	-20.00	1.47	10.23	0.60	-8.23	-7.63	-19.90	1.45	9.95	0.60	-8.43	-7.83
	62	0.07	-20.06	1.47	10.23	0.60	-8.28	-7.68	-19.27	1.45	9.95	0.60	-7.80	-7.20
7005	61	0.07	-20.36	1.48	10.23	0.60	-8.57	-7.97	-20.13	1.46	9.96	0.60	-8.64	-8.04
	62	0.07	-20.49	1.48	10.23	0.60	-8.70	-8.10	-20.22	1.46	9.96	0.60	-8.73	-8.13
7085	61	0.07	-21.35	1.49	10.23	0.60	-9.55	-8.95	-21.23	1.47	9.96	0.60	-9.74	-9.14
	62	0.07	-20.64	1.49	10.23	0.60	-8.85	-8.25	-20.88	1.47	9.96	0.60	-9.39	-8.79

Sample Calculation:

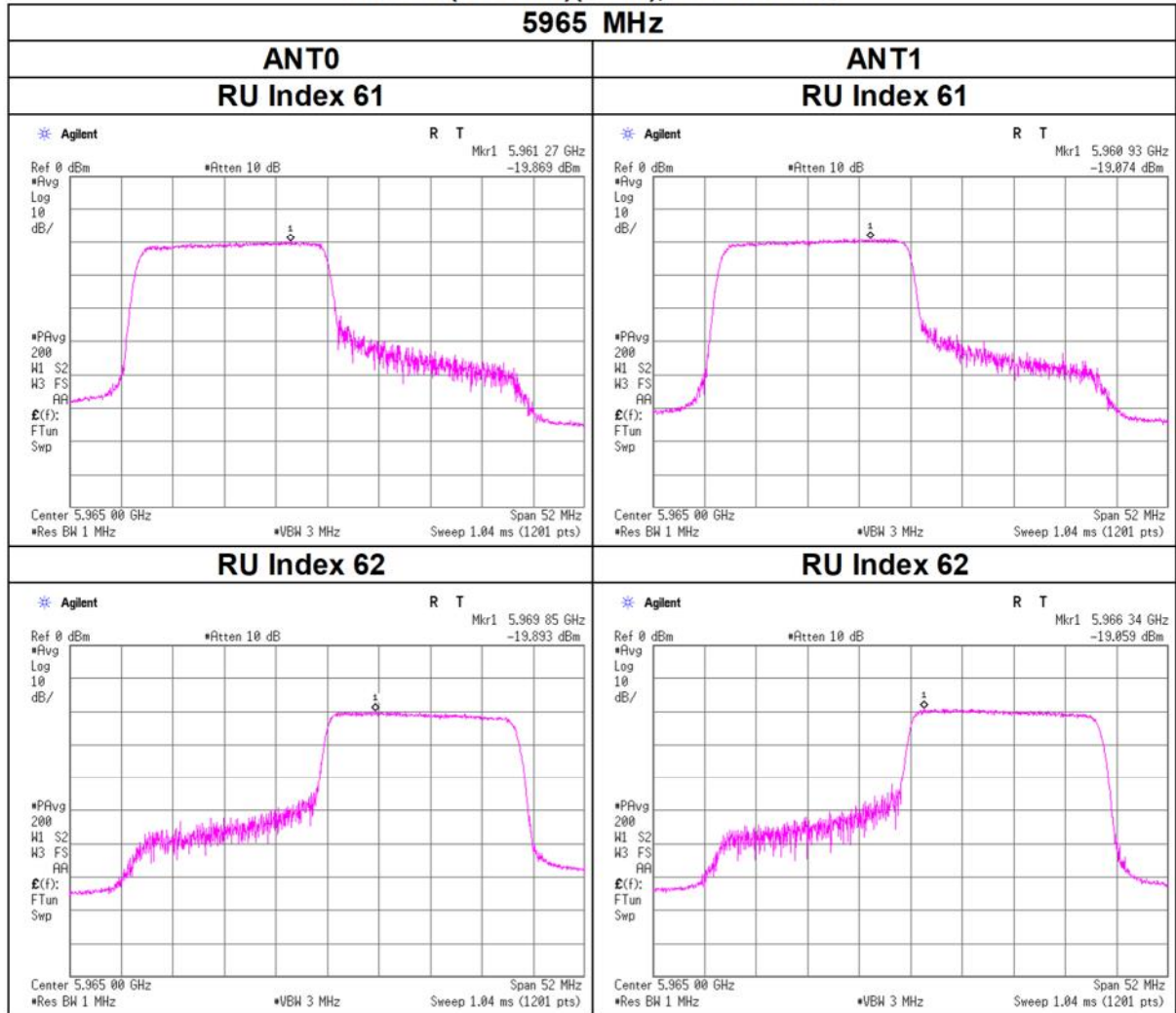
PSD: Power Spectral Density

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

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

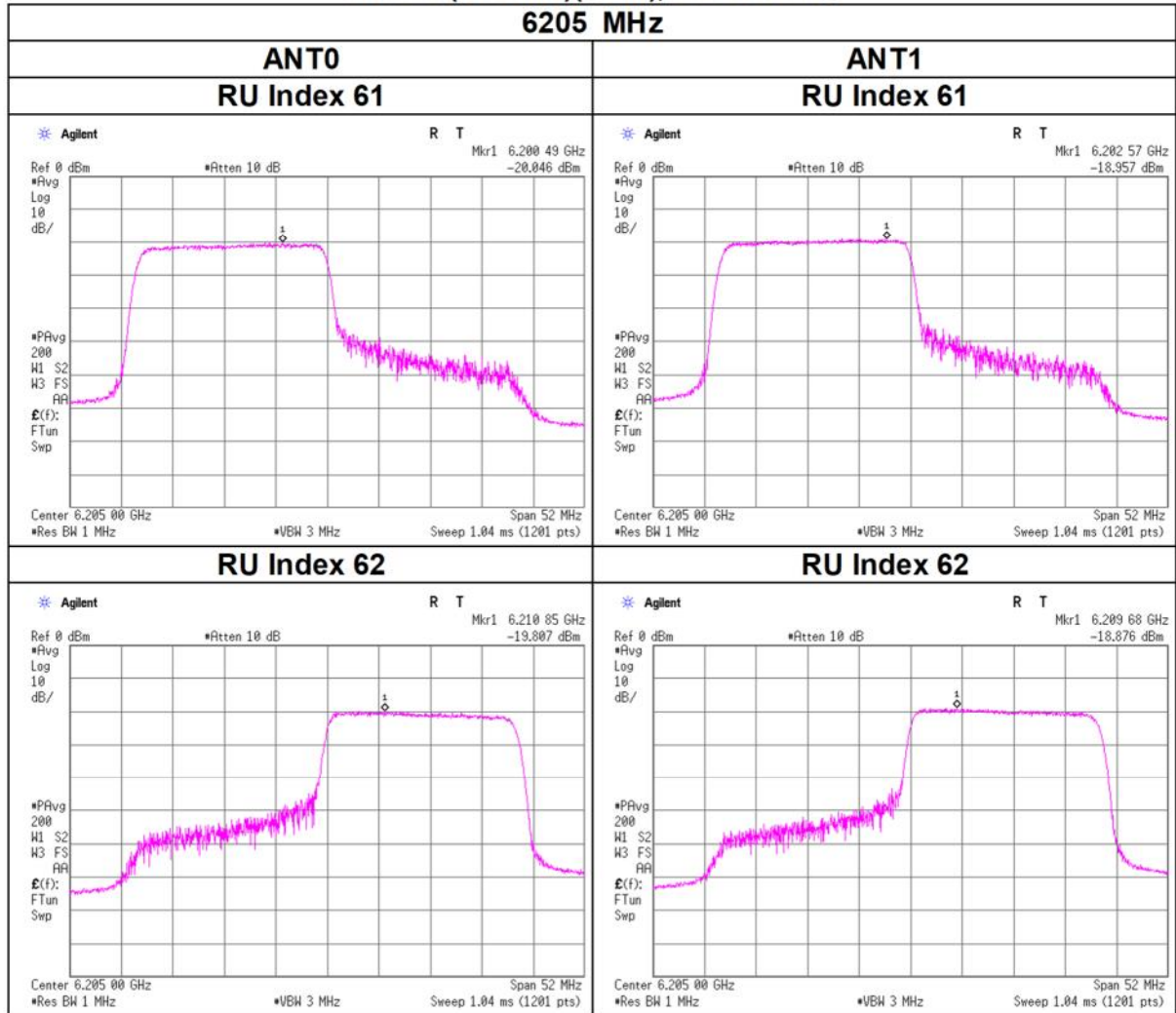
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



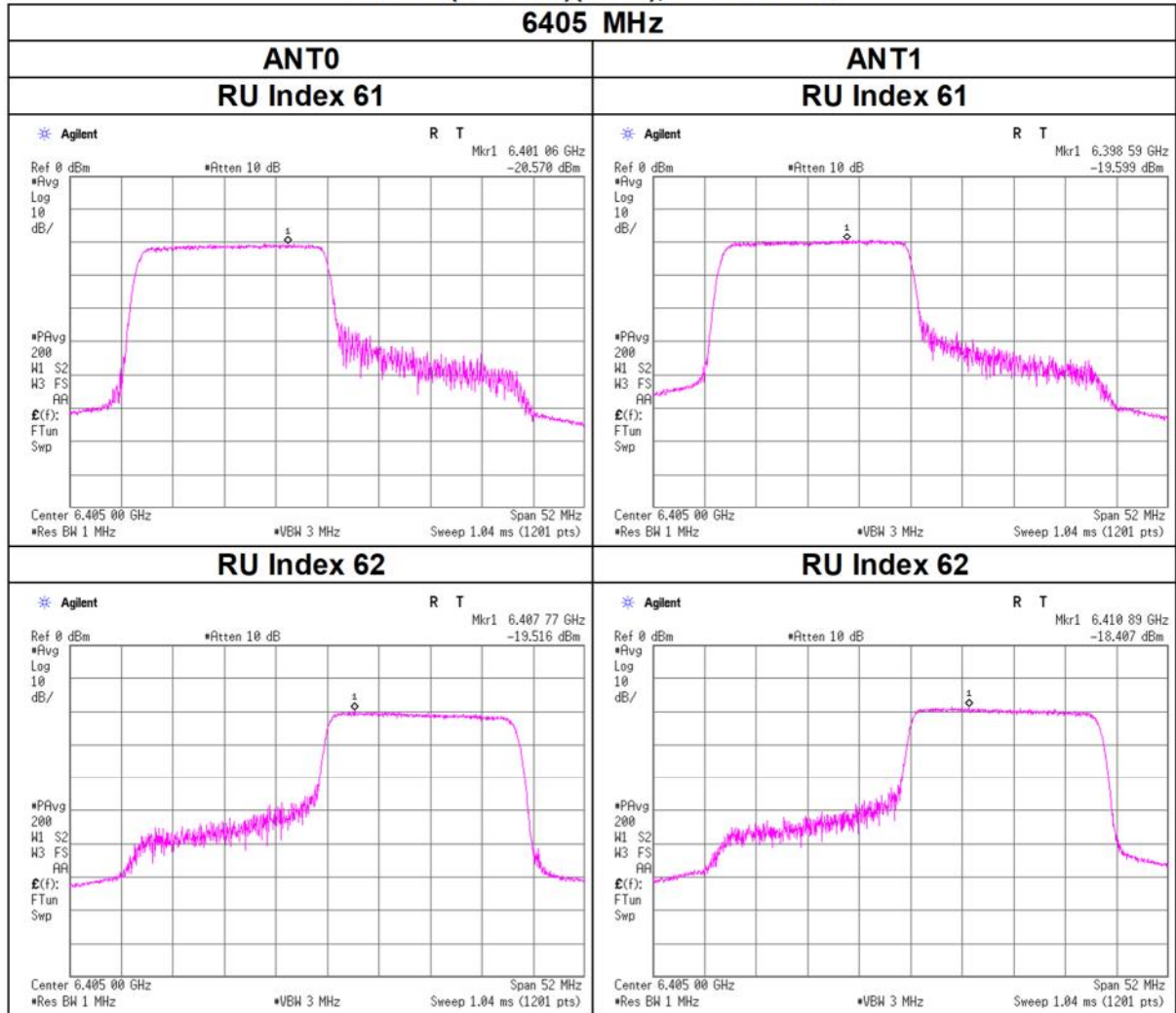
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



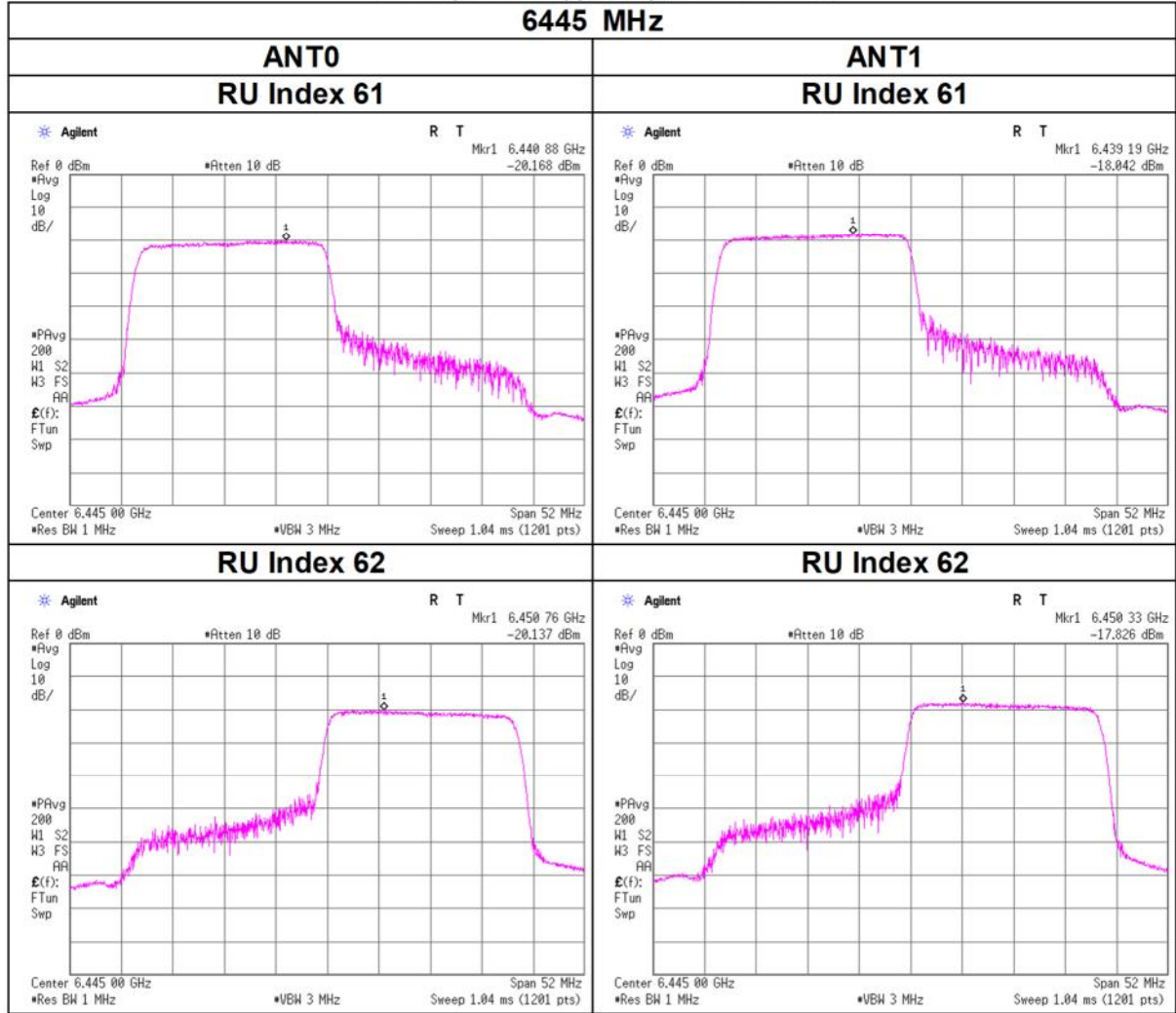
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



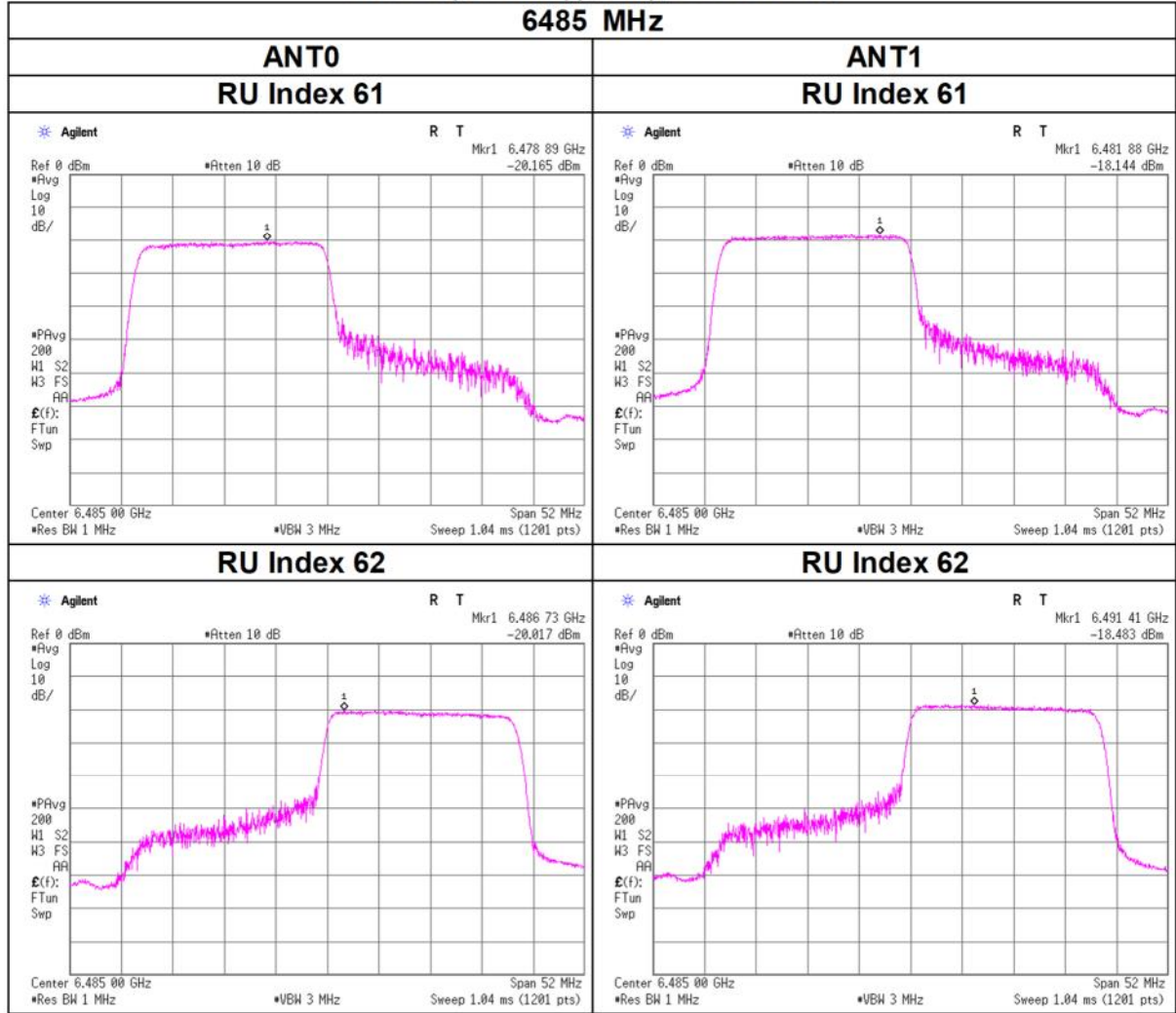
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



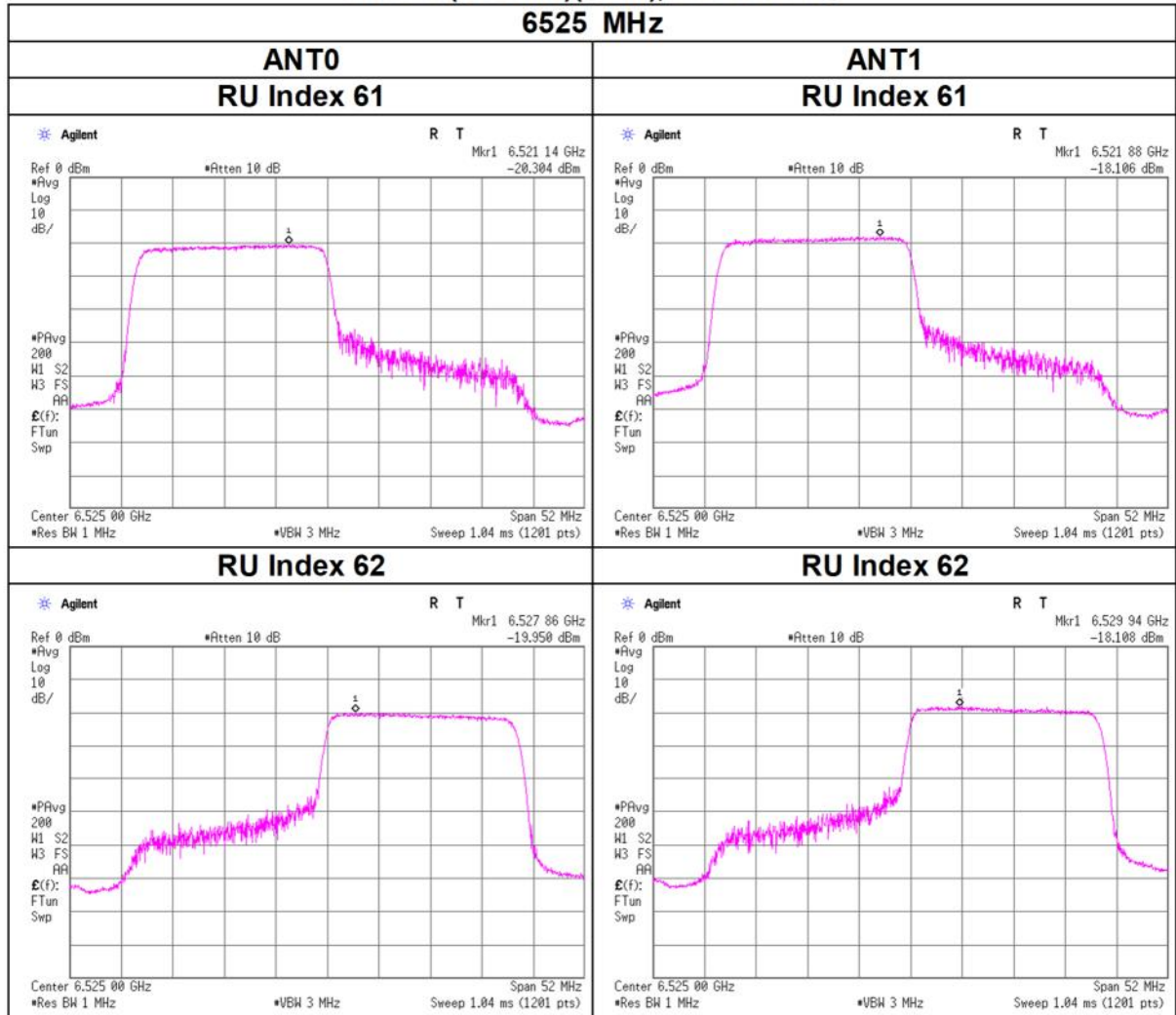
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



Maximum Power Spectral Density

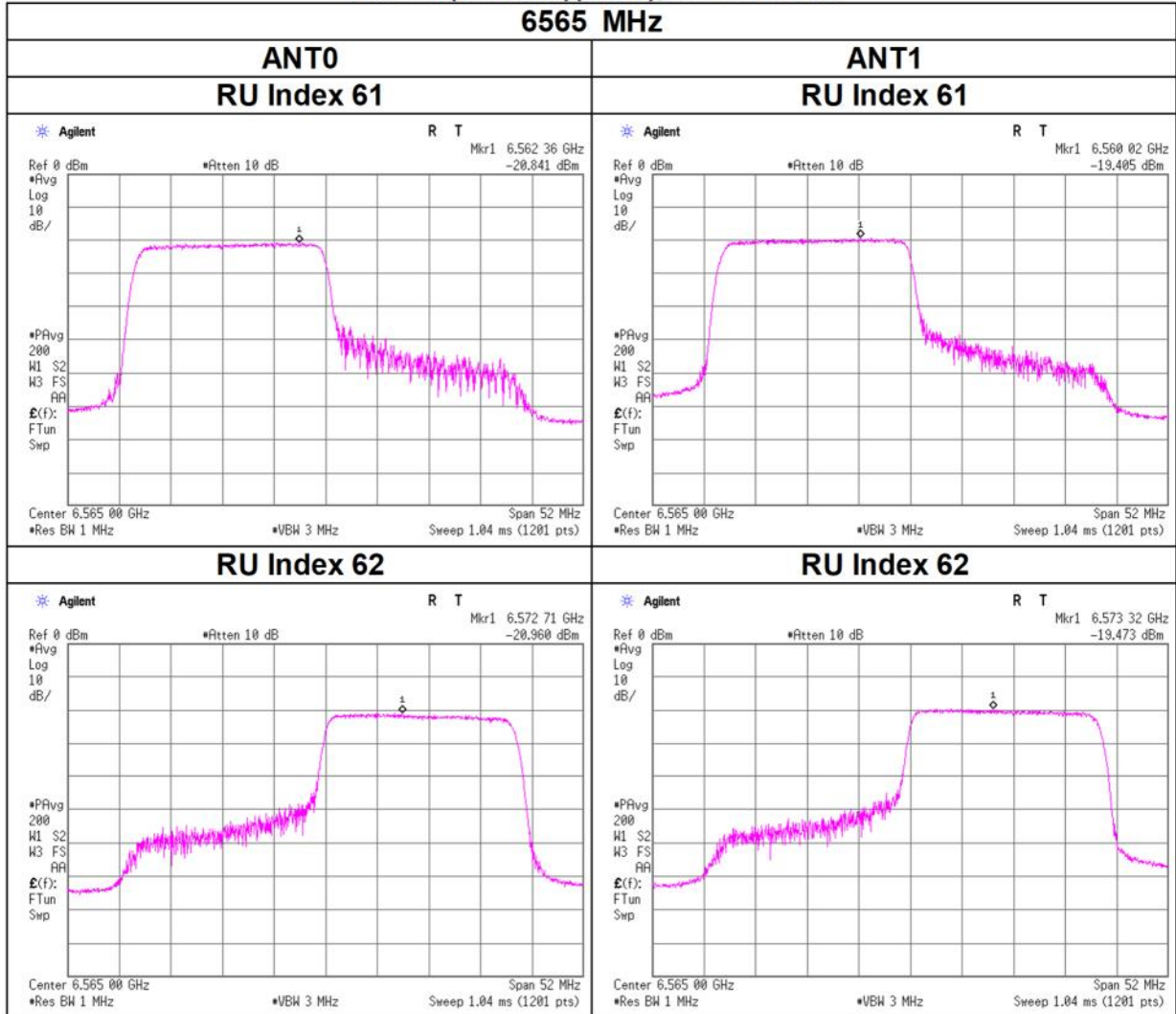
11ax-40(OFDMA)(SDM), 242-tone RU



Maximum Power Spectral Density

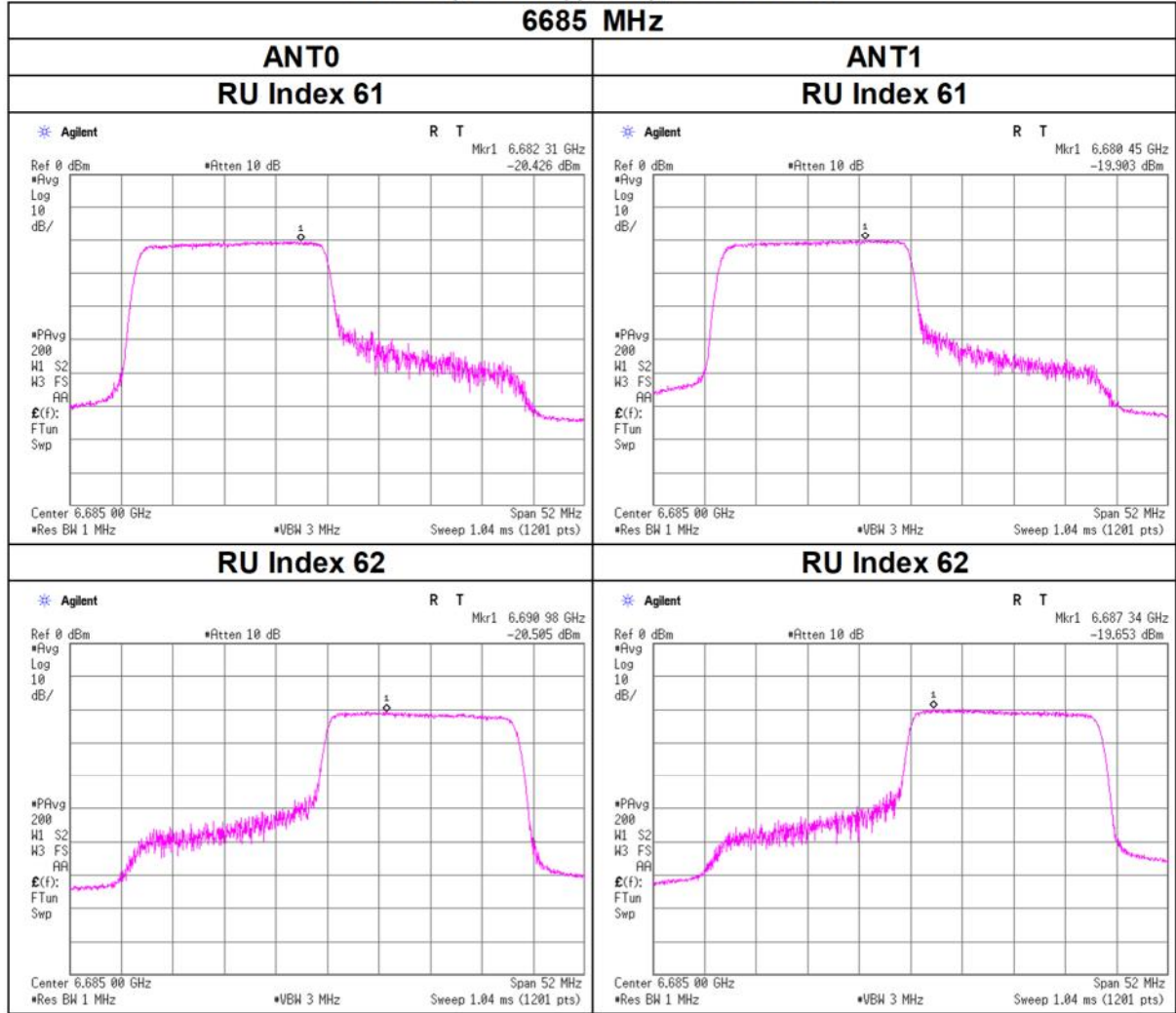
11ax-40(OFDMA)(SDM), 242-tone RU

6565 MHz



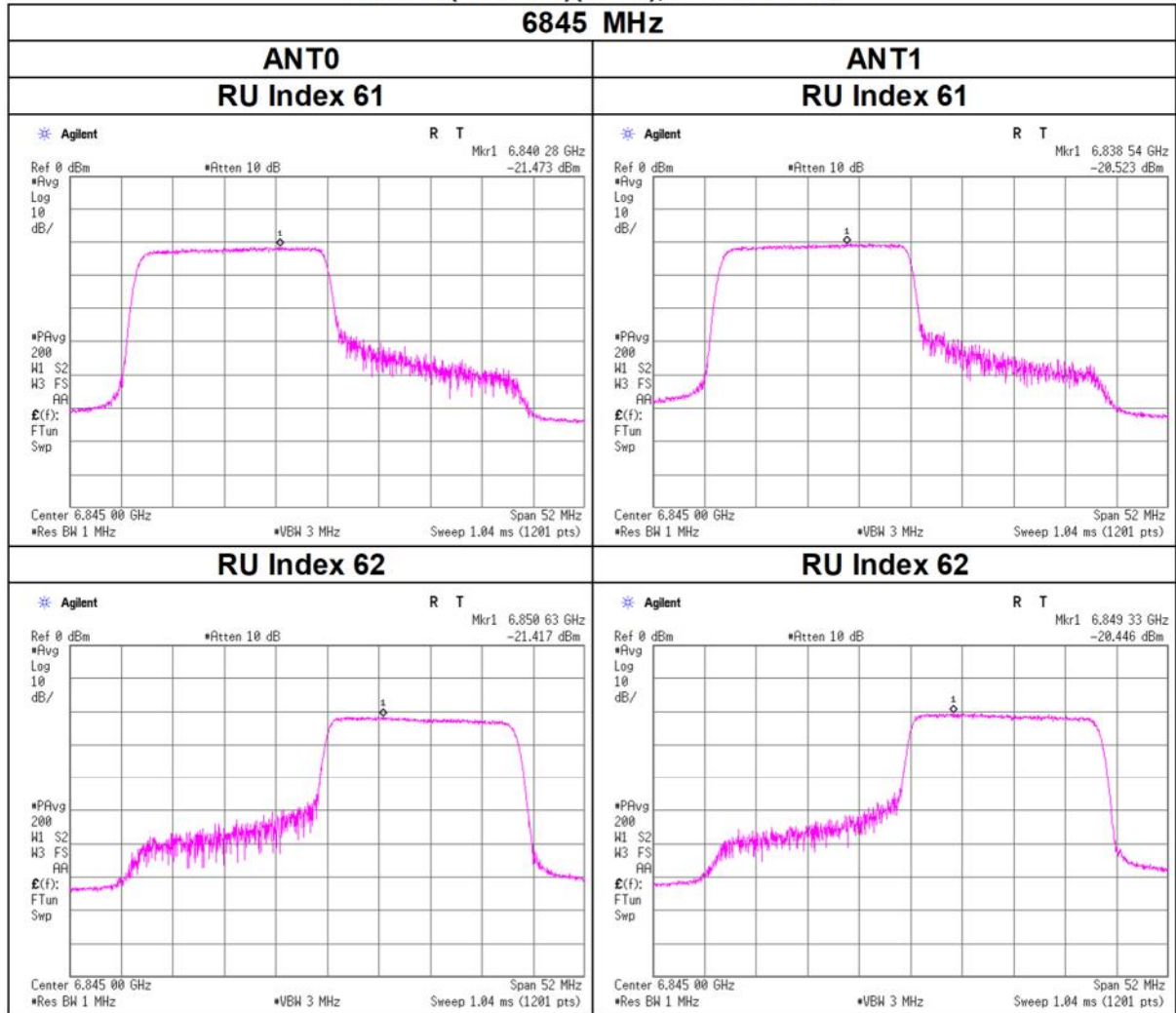
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



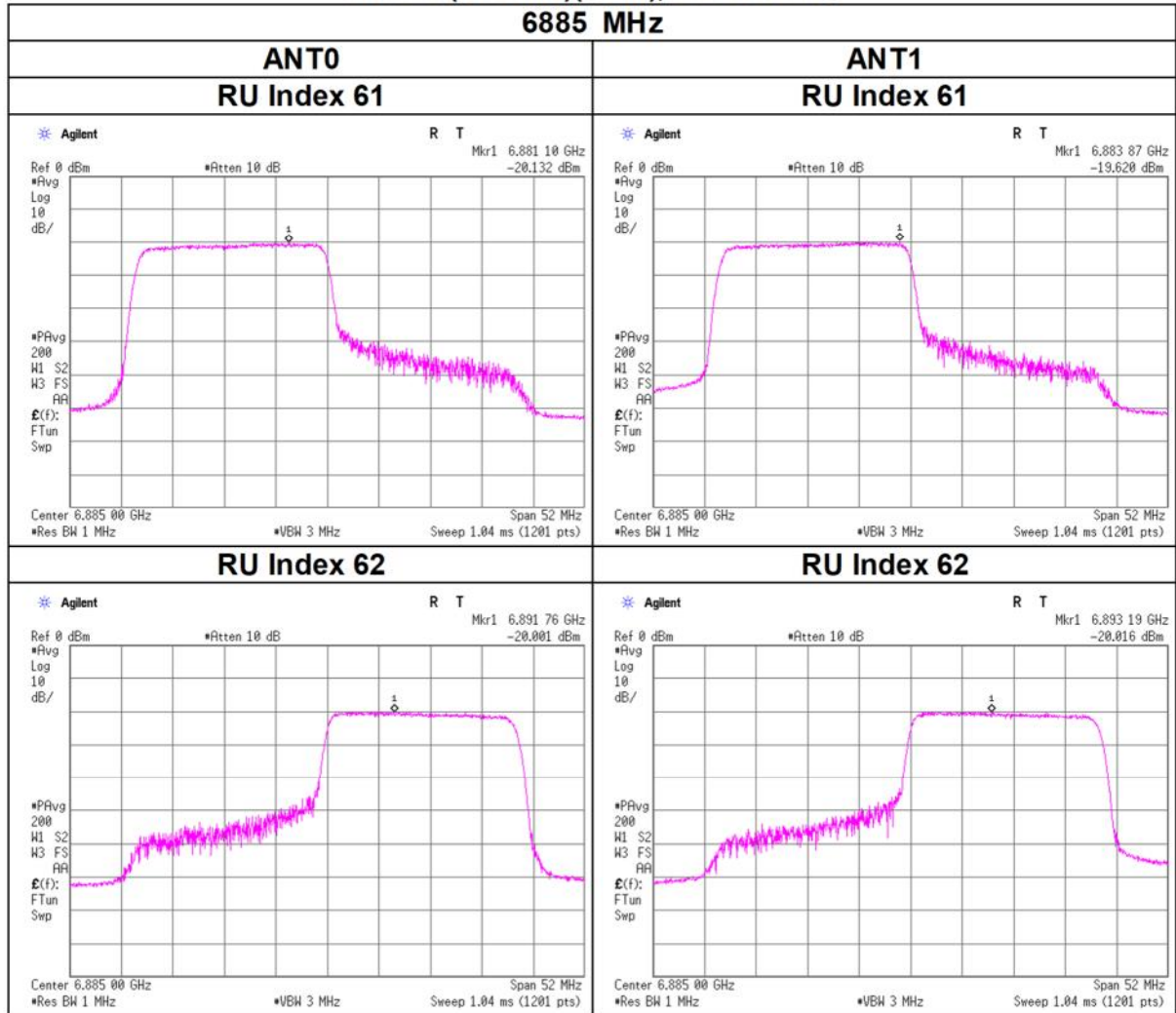
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



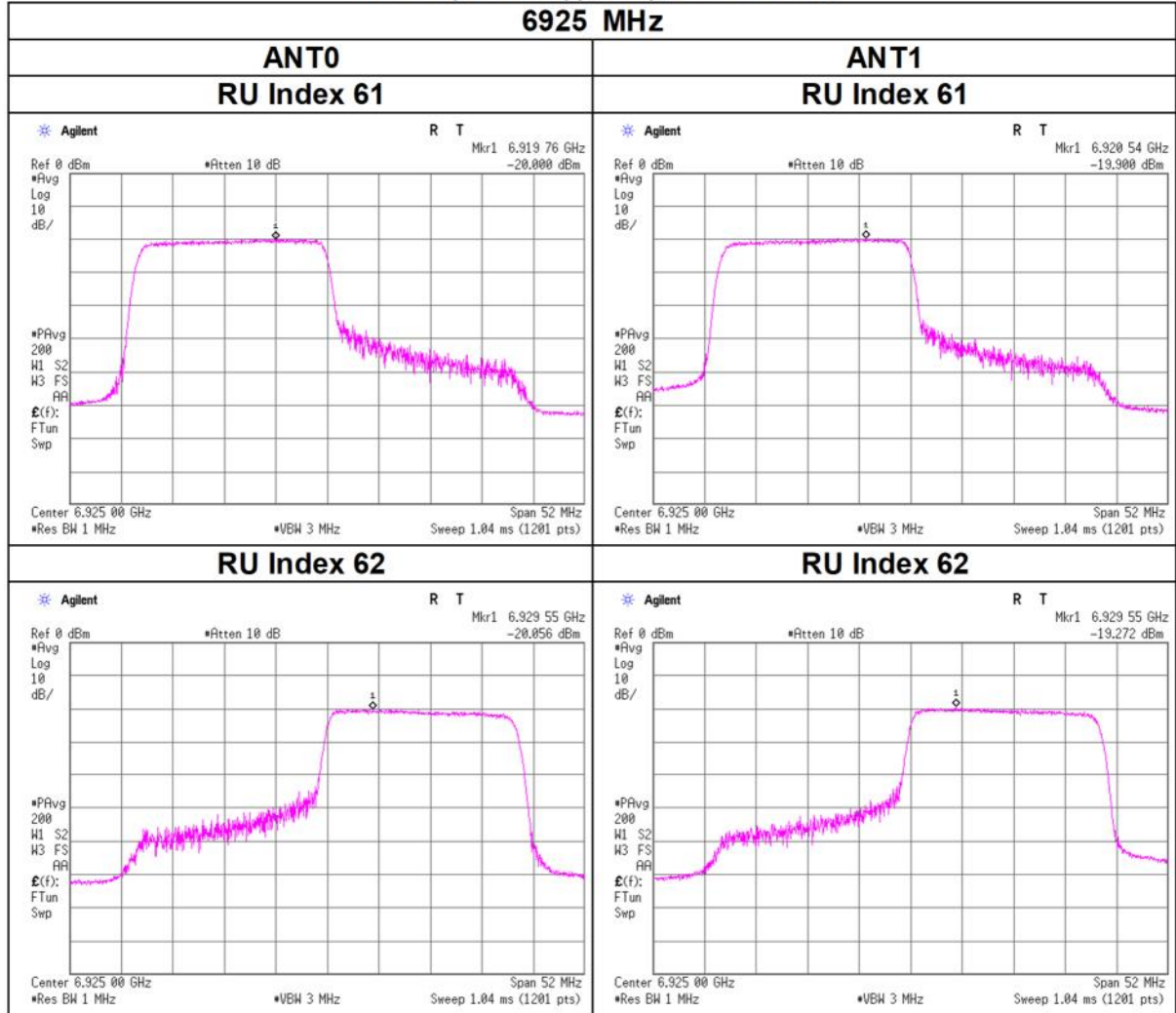
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



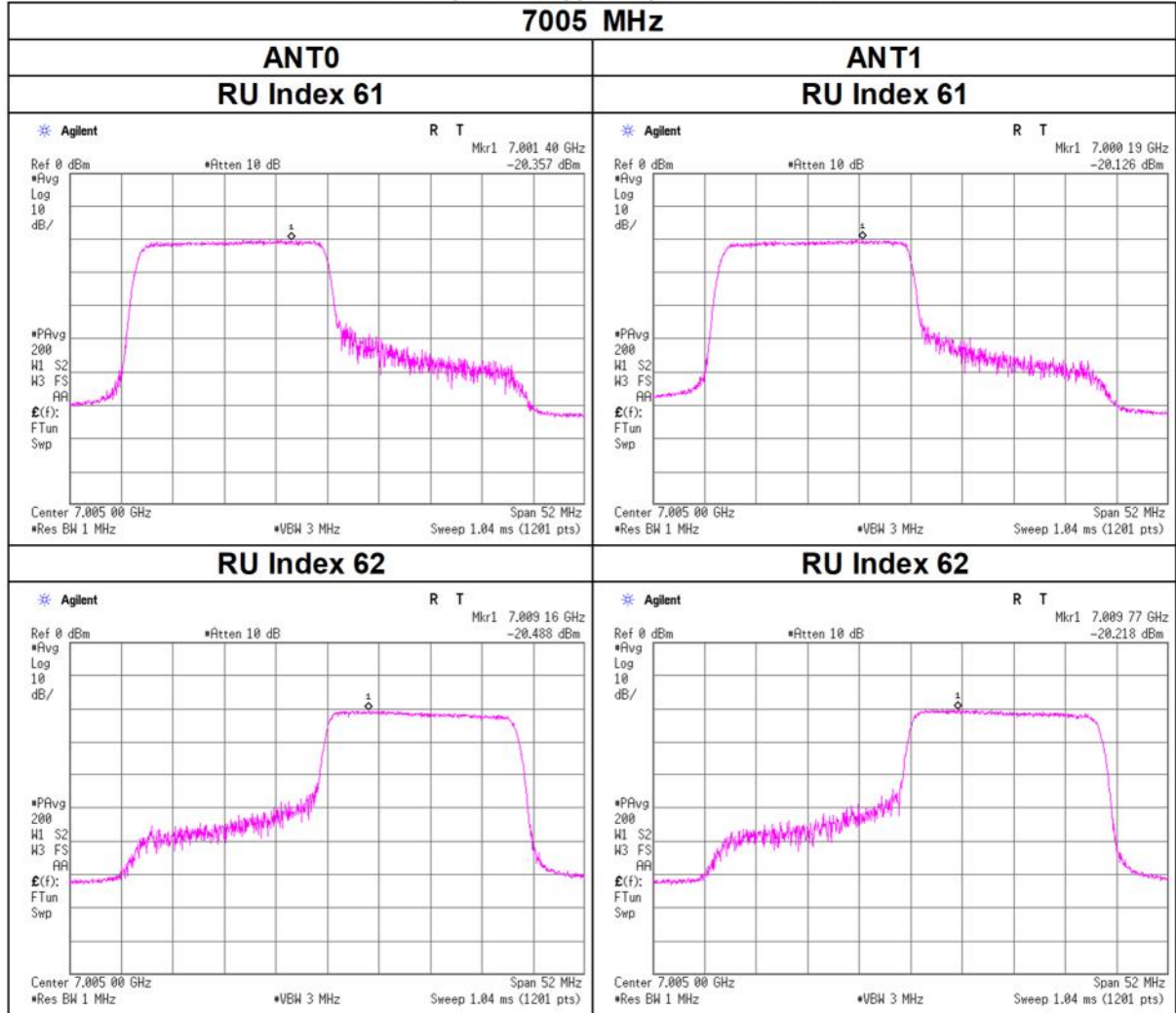
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



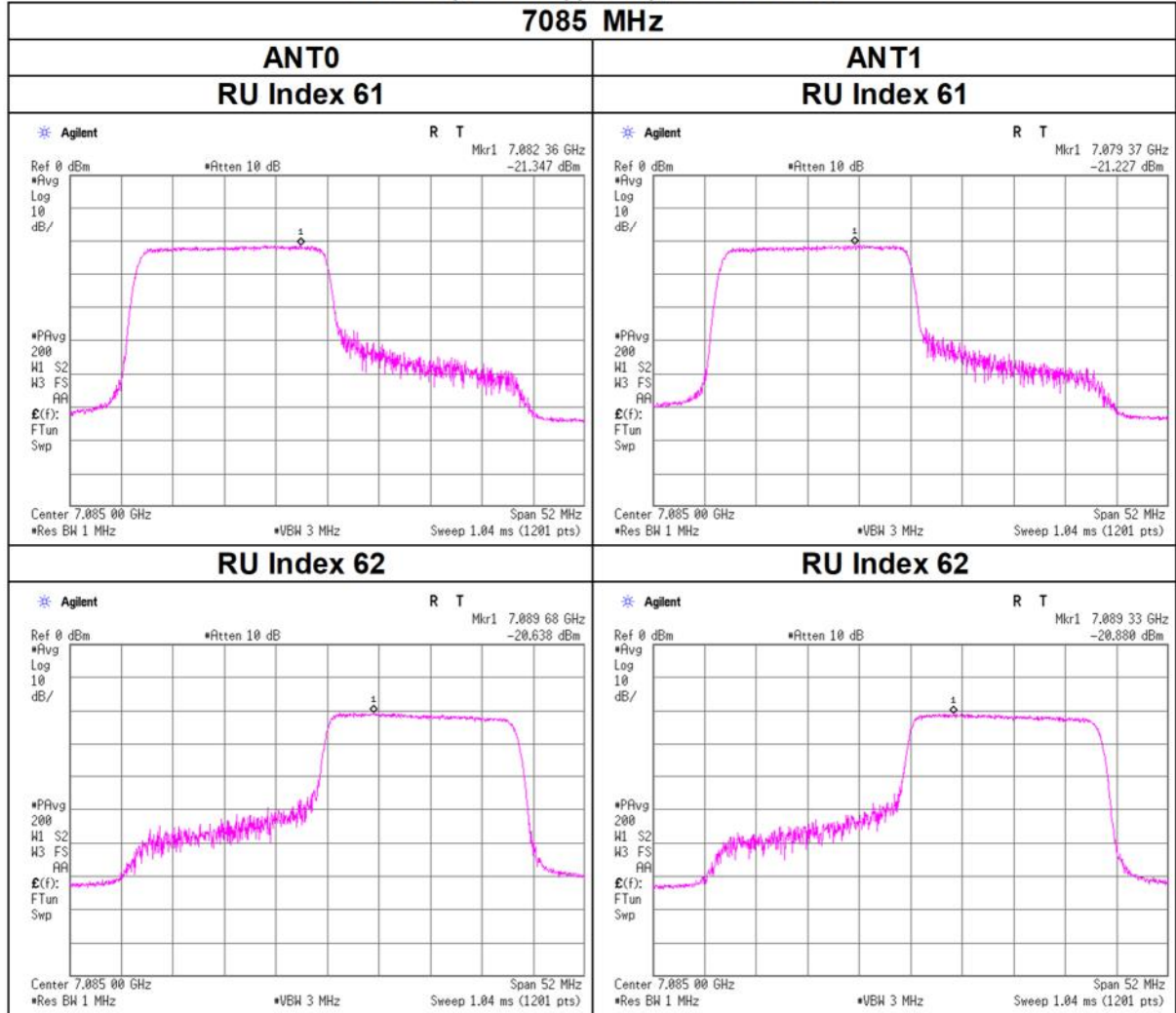
Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 242-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 22, 2024
Temperature / Humidity 24 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 242-tone RU (CDD)

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						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]
5965	61	0.08	0.09	0.17	-7.70	-	-	0.23	0.27	0.49	-3.07	-1.00	2.07
	62	0.09	0.09	0.18	-7.54	-	-	0.25	0.26	0.51	-2.91	-1.00	1.91
6205	61	0.06	0.08	0.14	-8.41	-	-	0.19	0.23	0.42	-3.78	-1.00	2.78
	62	0.07	0.08	0.15	-8.27	-	-	0.21	0.23	0.43	-3.64	-1.00	2.64
6405	61	0.07	0.08	0.16	-8.02	-	-	0.21	0.25	0.46	-3.39	-1.00	2.39
	62	0.07	0.08	0.15	-8.15	-	-	0.20	0.24	0.44	-3.52	-1.00	2.52
6445	61	0.07	0.11	0.19	-7.28	-	-	0.21	0.33	0.54	-2.65	-1.00	1.65
	62	0.07	0.12	0.19	-7.25	-	-	0.21	0.34	0.55	-2.62	-1.00	1.62
6485	61	0.07	0.10	0.18	-7.56	-	-	0.21	0.30	0.51	-2.93	-1.00	1.93
	62	0.07	0.11	0.18	-7.38	-	-	0.21	0.32	0.53	-2.75	-1.00	1.75
6525	61	0.08	0.11	0.19	-7.24	-	-	0.22	0.33	0.55	-2.61	-1.00	1.61
	62	0.08	0.11	0.19	-7.24	-	-	0.22	0.33	0.55	-2.61	-1.00	1.61

ANT0							ANT1							
Tested Frequency	RU Index	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result		PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	
							Cond.	e.i.r.p.					Cond.	e.i.r.p.
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5965	61	0.07	-24.39	3.27	9.98	4.63	-11.07	-6.44	-23.83	3.29	10.10	4.63	-10.37	-5.74
	62	0.07	-23.97	3.27	9.98	4.63	-10.65	-6.02	-23.90	3.29	10.10	4.63	-10.45	-5.82
6205	61	0.07	-25.31	3.34	9.98	4.63	-11.92	-7.29	-24.50	3.36	10.10	4.63	-10.97	-6.34
	62	0.07	-24.89	3.34	9.98	4.63	-11.50	-6.87	-24.60	3.36	10.10	4.63	-11.06	-6.43
6405	61	0.07	-24.81	3.39	9.99	4.63	-11.36	-6.73	-24.31	3.41	10.11	4.63	-10.72	-6.09
	62	0.07	-25.00	3.39	9.99	4.63	-11.55	-6.92	-24.39	3.41	10.11	4.63	-10.80	-6.17
6445	61	0.07	-24.77	3.40	9.99	4.63	-11.31	-6.68	-23.07	3.42	10.11	4.63	-9.47	-4.84
	62	0.07	-24.85	3.40	9.99	4.63	-11.39	-6.76	-22.97	3.42	10.11	4.63	-9.37	-4.74
6485	61	0.07	-24.92	3.41	9.99	4.63	-11.45	-6.82	-23.46	3.43	10.11	4.63	-9.84	-5.21
	62	0.07	-24.93	3.41	9.99	4.63	-11.46	-6.83	-23.15	3.43	10.11	4.63	-9.54	-4.91
6525	61	0.07	-24.67	3.42	9.99	4.63	-11.19	-6.56	-23.11	3.45	10.11	4.63	-9.49	-4.86
	62	0.07	-24.65	3.42	9.99	4.63	-11.17	-6.54	-23.12	3.45	10.11	4.63	-9.49	-4.86

Sample Calculation:

PSD: Power Spectral Density

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

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

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10 \log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 22, 2024
Temperature / Humidity 24 deg. C / 38 % RH
Engineer Yuta Shiba
Mode Tx 11ax-40 (OFDMA) 242-tone RU (CDD)

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
		ANT0 [mW/MHz]	ANT1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	ANT0 [mW/MHz]	ANT1 [mW/MHz]	Sum [mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
6565	61	0.06	0.08	0.14	-8.56	-	-	0.15	0.17	0.32	-4.94	-1.00	3.94
	62	0.06	0.08	0.14	-8.52	-	-	0.15	0.18	0.32	-4.90	-1.00	3.90
6685	61	0.07	0.08	0.15	-8.14	-	-	0.17	0.18	0.35	-4.52	-1.00	3.52
	62	0.07	0.08	0.15	-8.16	-	-	0.17	0.19	0.35	-4.54	-1.00	3.54
6845	61	0.05	0.06	0.11	-9.45	-	-	0.12	0.14	0.26	-5.83	-1.00	4.83
	62	0.05	0.07	0.12	-9.18	-	-	0.12	0.16	0.28	-5.56	-1.00	4.56
6885	61	0.06	0.07	0.13	-8.74	-	-	0.15	0.16	0.31	-5.12	-1.00	4.12
	62	0.08	0.07	0.15	-8.26	-	-	0.18	0.16	0.34	-4.64	-1.00	3.64
6925	61	0.07	0.07	0.14	-8.48	-	-	0.17	0.16	0.33	-4.86	-1.00	3.86
	62	0.07	0.07	0.14	-8.50	-	-	0.16	0.16	0.32	-4.88	-1.00	3.88
7005	61	0.06	0.06	0.12	-9.15	-	-	0.14	0.14	0.28	-5.53	-1.00	4.53
	62	0.07	0.07	0.14	-8.58	-	-	0.16	0.16	0.32	-4.96	-1.00	3.96
7085	61	0.05	0.05	0.10	-9.87	-	-	0.13	0.11	0.24	-6.25	-1.00	5.25
	62	0.06	0.05	0.11	-9.39	-	-	0.14	0.12	0.26	-5.77	-1.00	4.77

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	ANT0						ANT1					
			PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond. [dBm/MHz]	PSD Result e.i.r.p. [dBm/MHz]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Directional Gain [dBi]	PSD Result Cond. [dBm/MHz]	PSD Result e.i.r.p. [dBm/MHz]
6565	61	0.07	-25.44	3.44	9.99	3.62	-11.94	-8.32	-24.87	3.46	10.11	3.62	-11.23	-7.61
	62	0.07	-25.40	3.44	9.99	3.62	-11.91	-8.29	-24.82	3.46	10.11	3.62	-11.18	-7.56
6685	61	0.07	-24.87	3.47	9.99	3.62	-11.34	-7.72	-24.64	3.49	10.12	3.62	-10.97	-7.35
	62	0.07	-24.97	3.47	9.99	3.62	-11.44	-7.82	-24.59	3.49	10.12	3.62	-10.91	-7.29
6845	61	0.07	-26.45	3.51	9.99	3.62	-12.87	-9.25	-25.81	3.53	10.12	3.62	-12.09	-8.47
	62	0.07	-26.58	3.51	9.99	3.62	-13.01	-9.39	-25.22	3.53	10.12	3.62	-11.49	-7.87
6885	61	0.07	-25.50	3.52	9.99	3.62	-11.91	-8.29	-25.33	3.55	10.12	3.62	-11.59	-7.97
	62	0.07	-24.68	3.52	9.99	3.62	-11.09	-7.47	-25.20	3.55	10.12	3.62	-11.46	-7.84
6925	61	0.07	-25.03	3.54	9.99	3.62	-11.43	-7.81	-25.29	3.56	10.12	3.62	-11.55	-7.93
	62	0.07	-25.08	3.54	9.99	3.62	-11.48	-7.86	-25.29	3.56	10.12	3.62	-11.54	-7.92
7005	61	0.07	-25.68	3.56	9.99	3.62	-12.06	-8.44	-26.04	3.58	10.12	3.62	-12.27	-8.65
	62	0.07	-25.23	3.56	9.99	3.62	-11.60	-7.98	-25.35	3.58	10.12	3.62	-11.58	-7.96
7085	61	0.07	-26.27	3.58	9.99	3.62	-12.63	-9.01	-26.93	3.60	10.12	3.62	-13.14	-9.52
	62	0.07	-25.79	3.58	9.99	3.62	-12.15	-8.53	-26.47	3.60	10.12	3.62	-12.67	-9.05

Sample Calculation:

PSD: Power Spectral Density

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

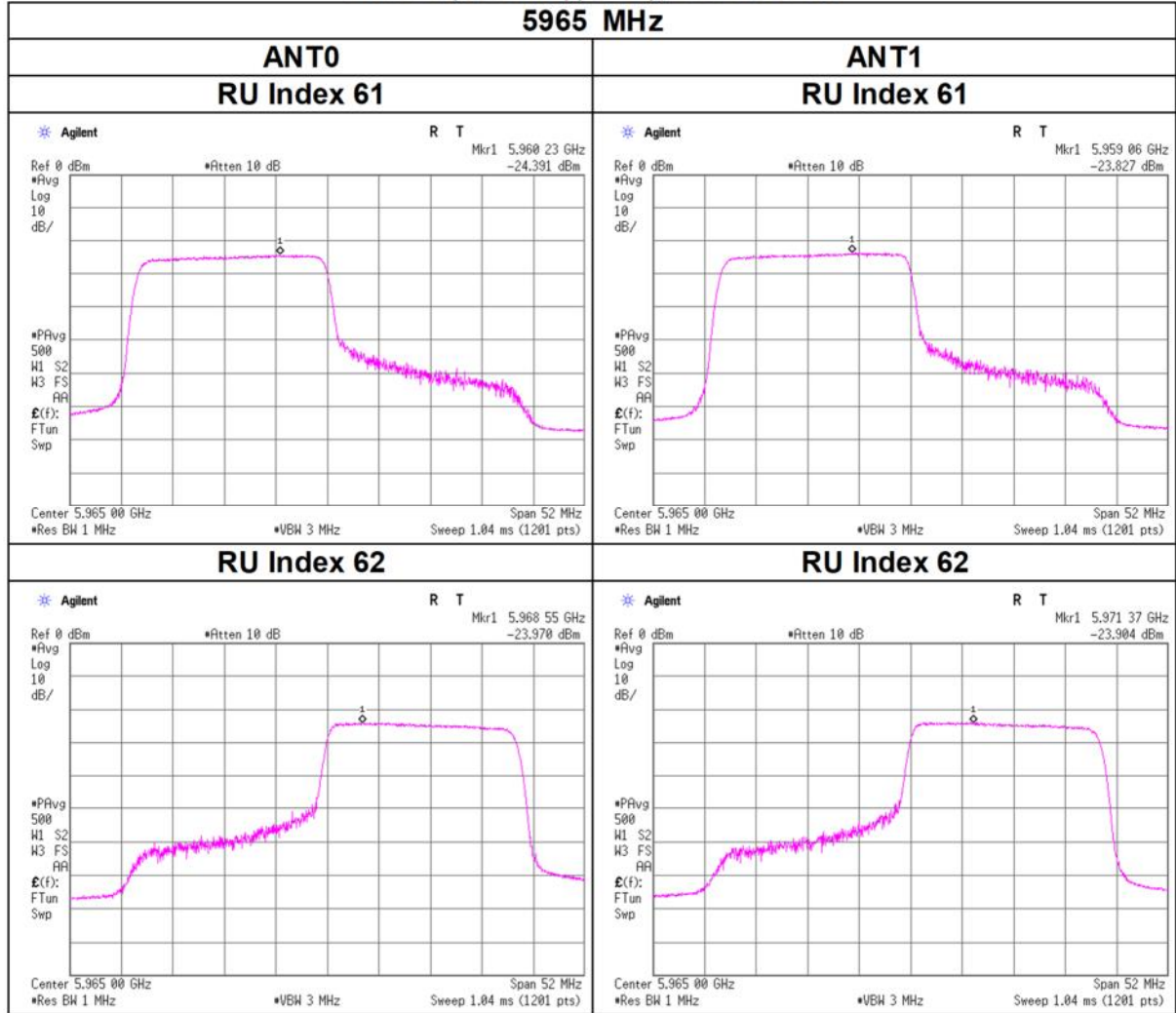
PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Array Gain, Array Gain = $10\log(\text{Number of transmit antennas} / \text{Number of spatial streams})$

Number of transmit antennas = 2, Number of spatial streams = 1

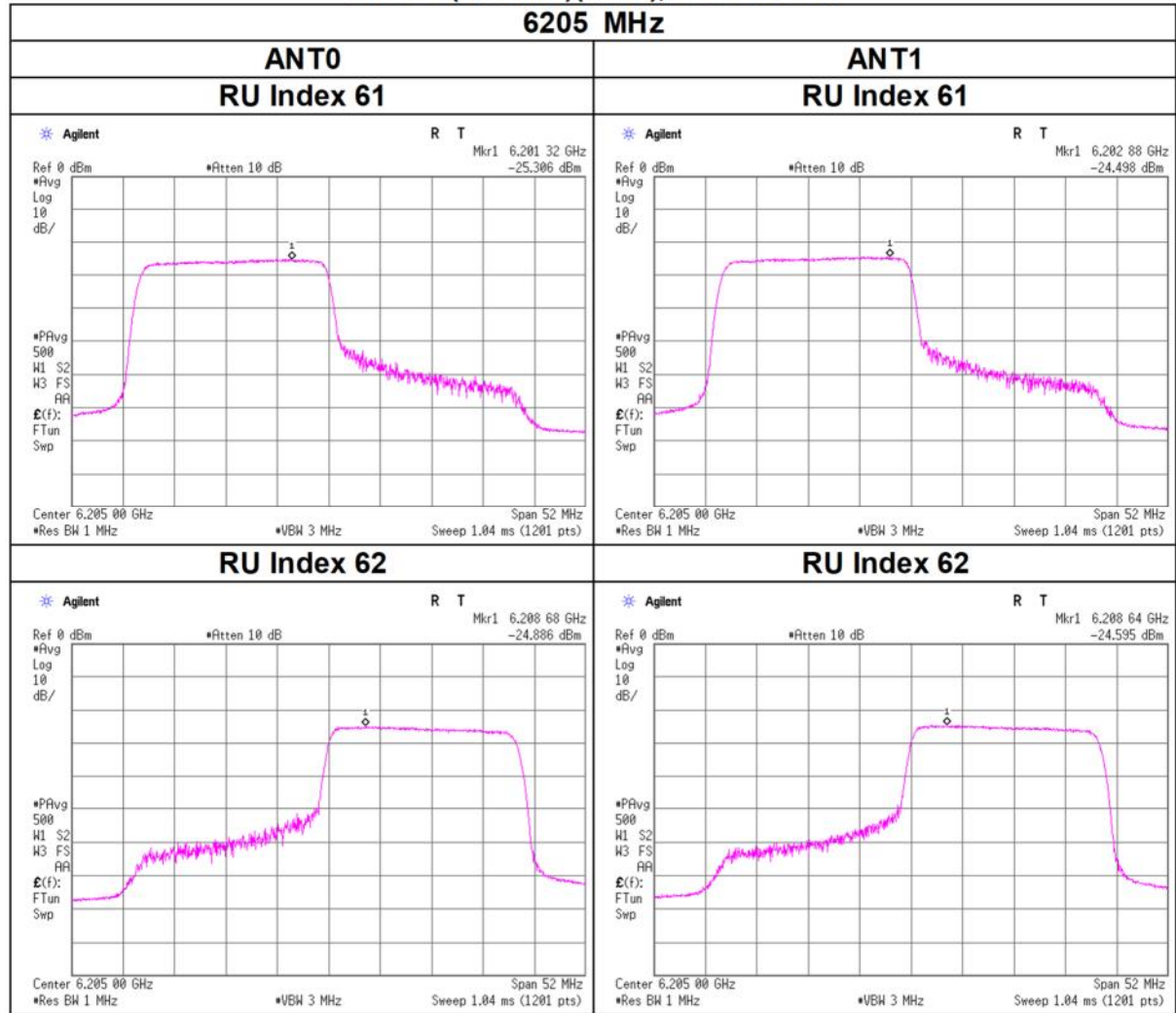
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



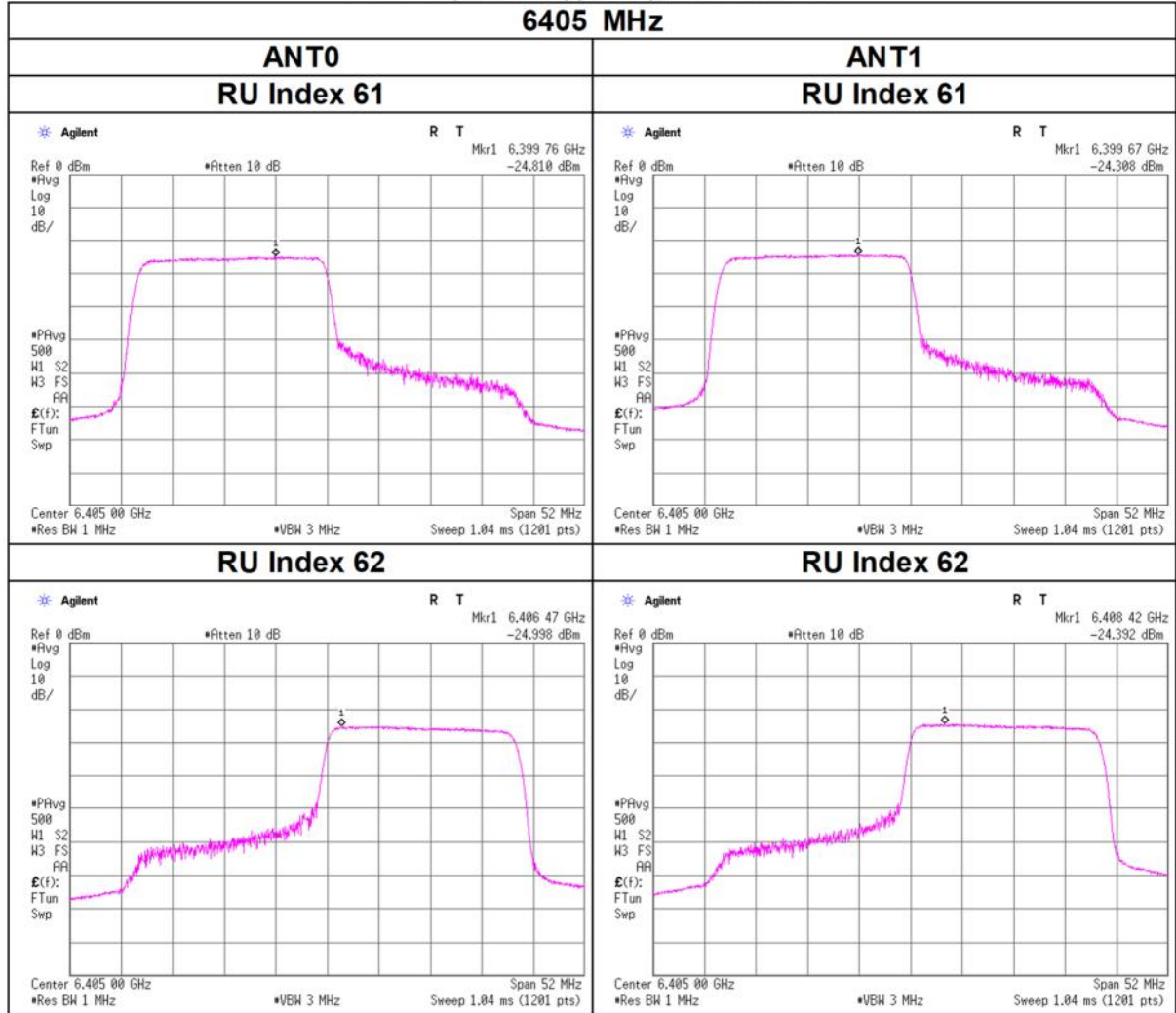
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



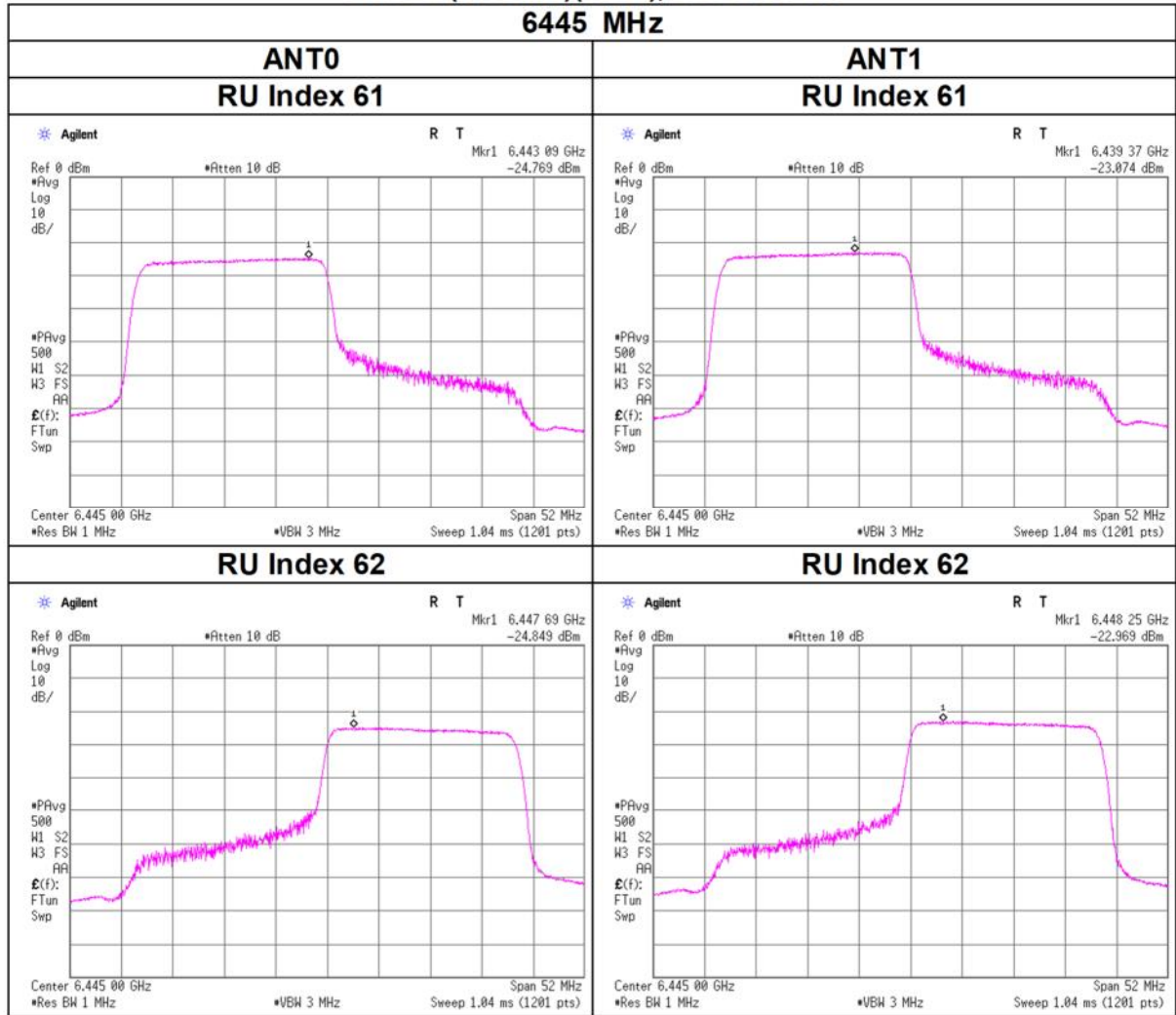
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



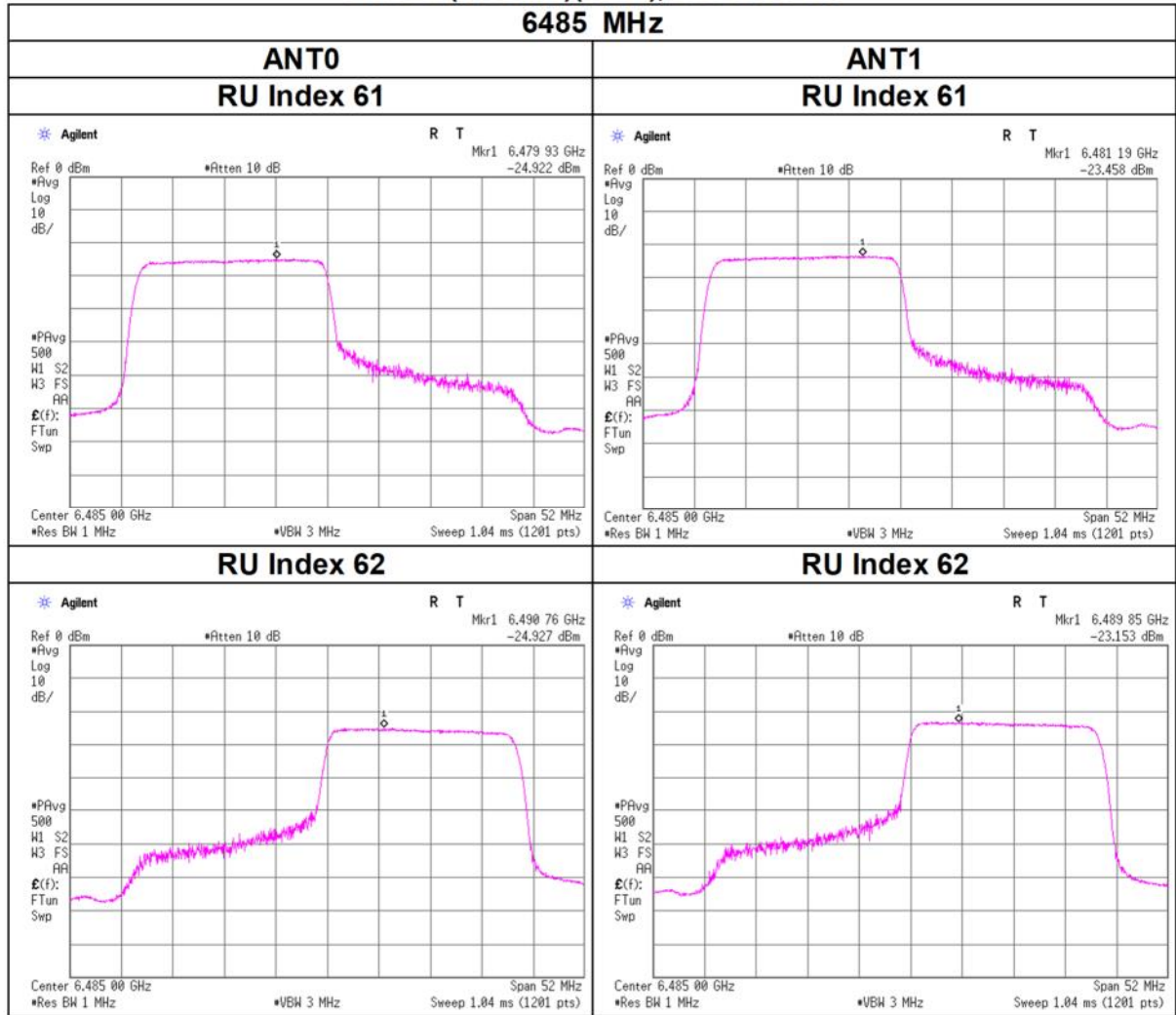
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



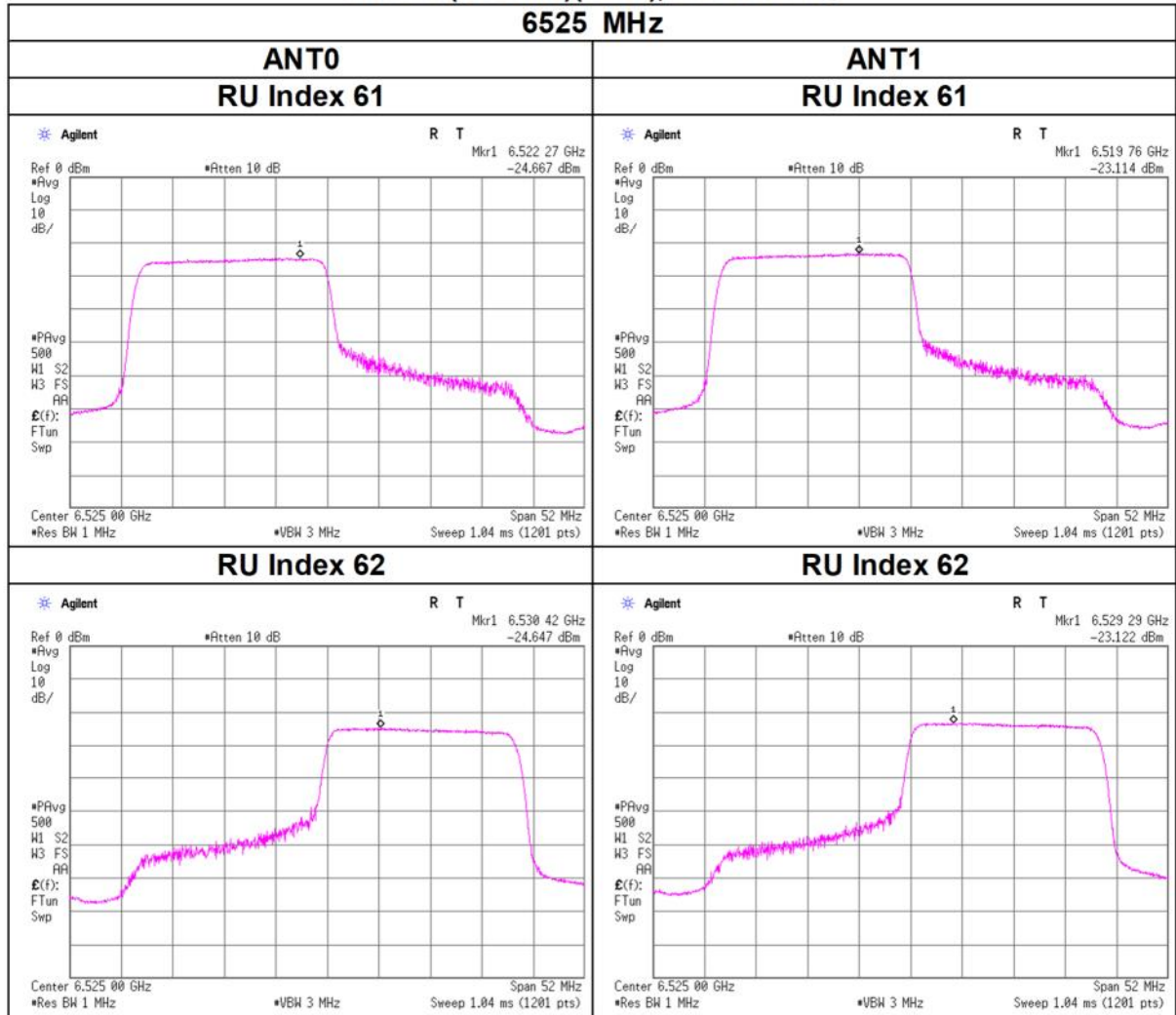
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



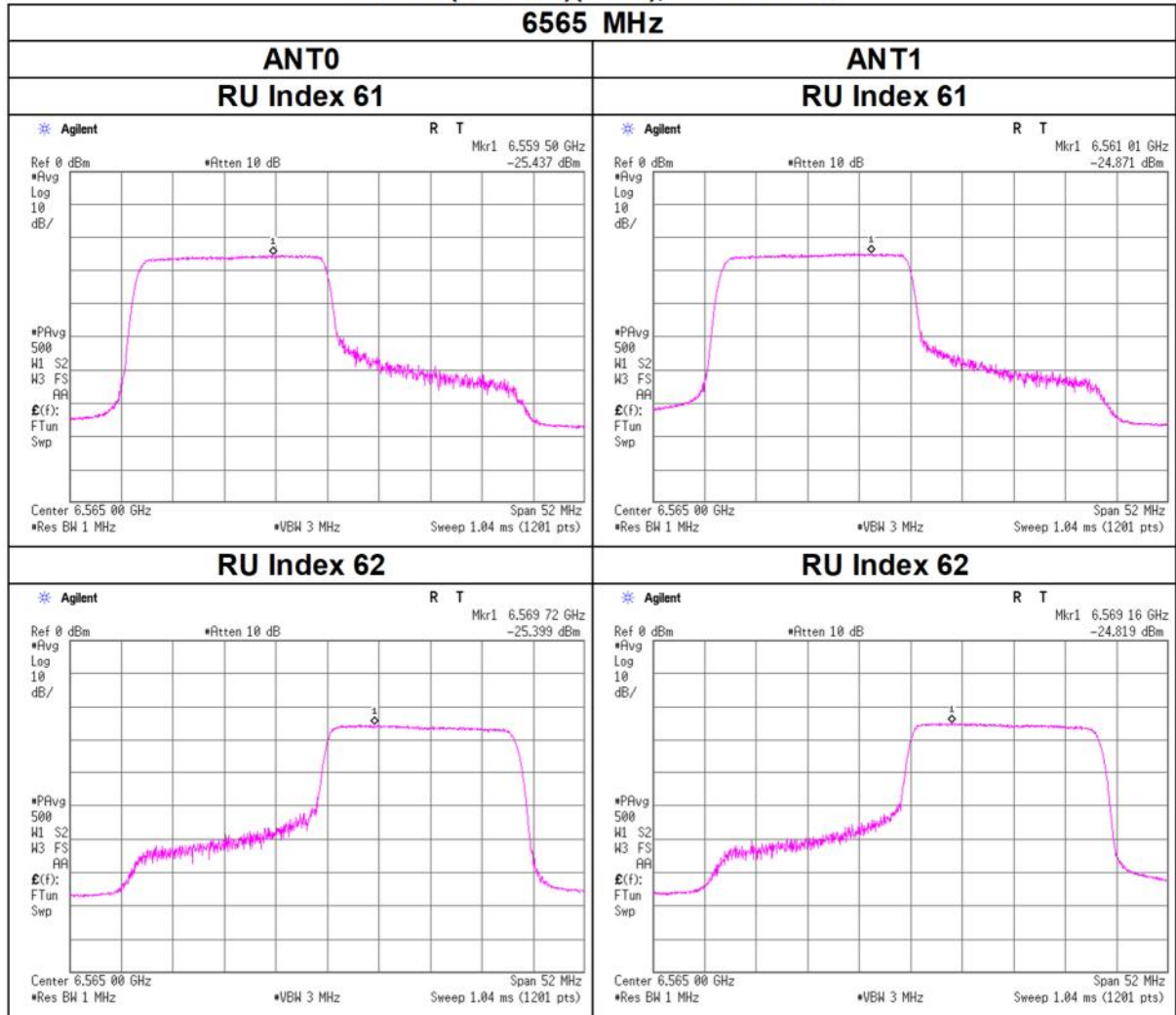
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



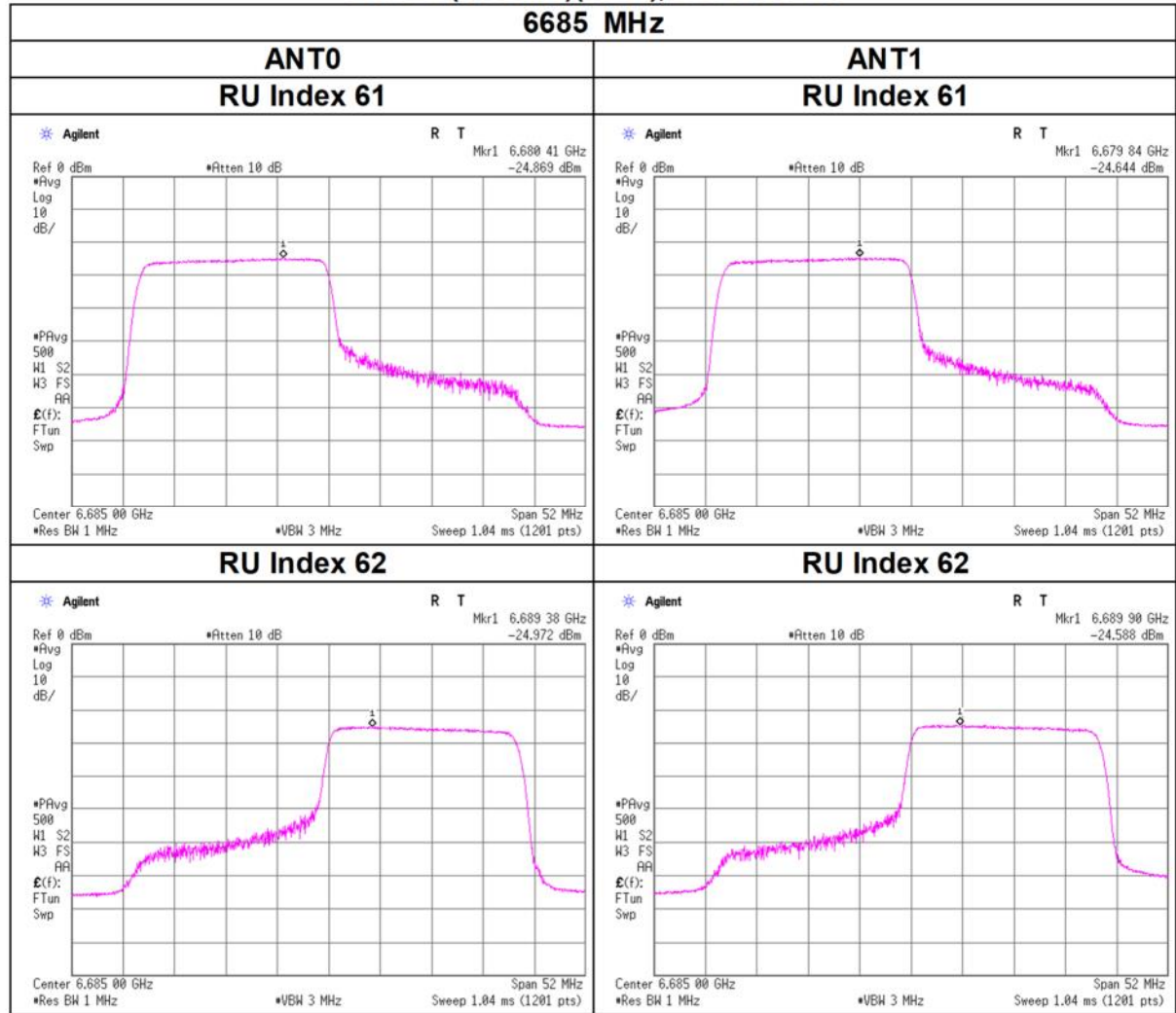
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



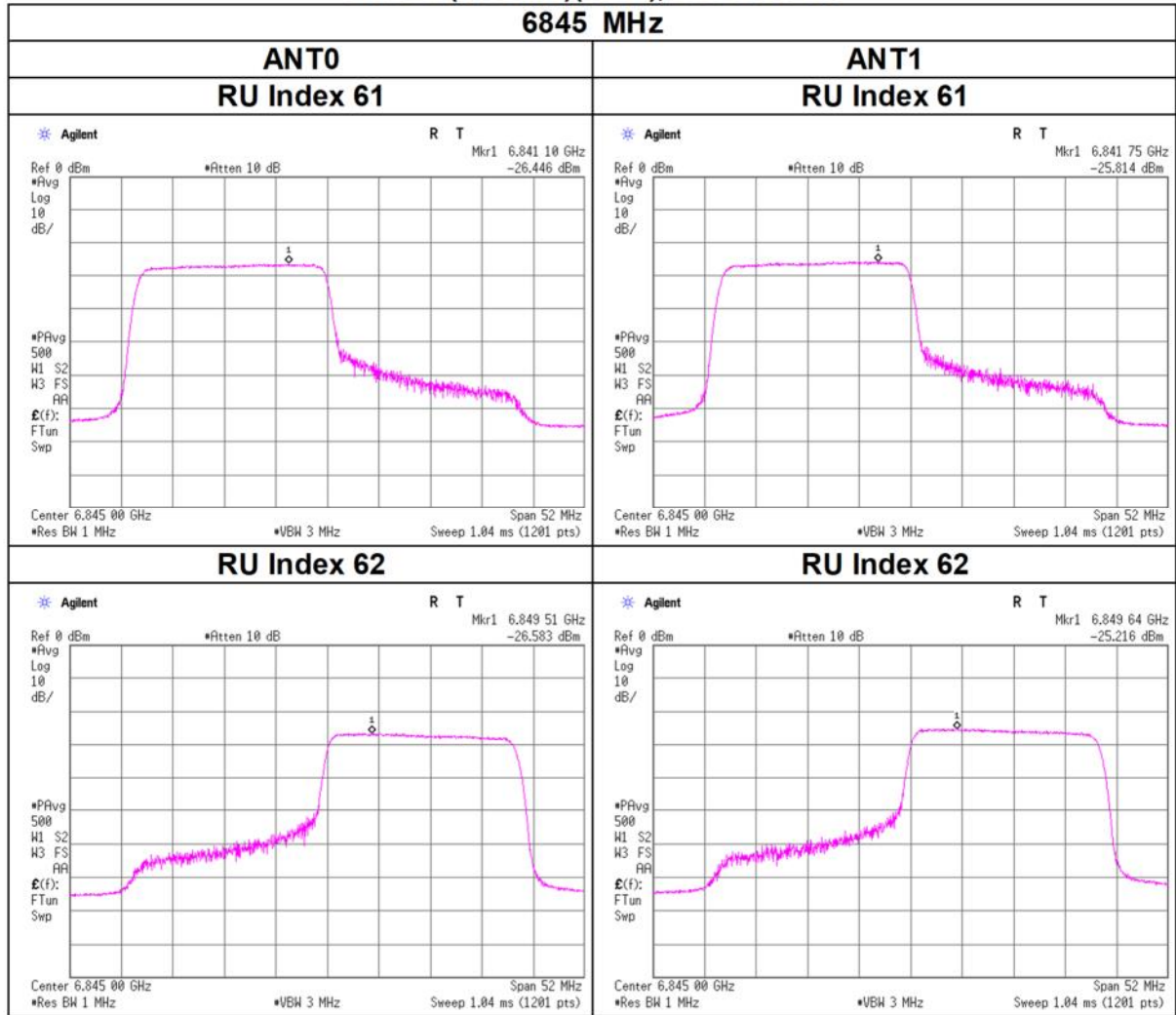
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



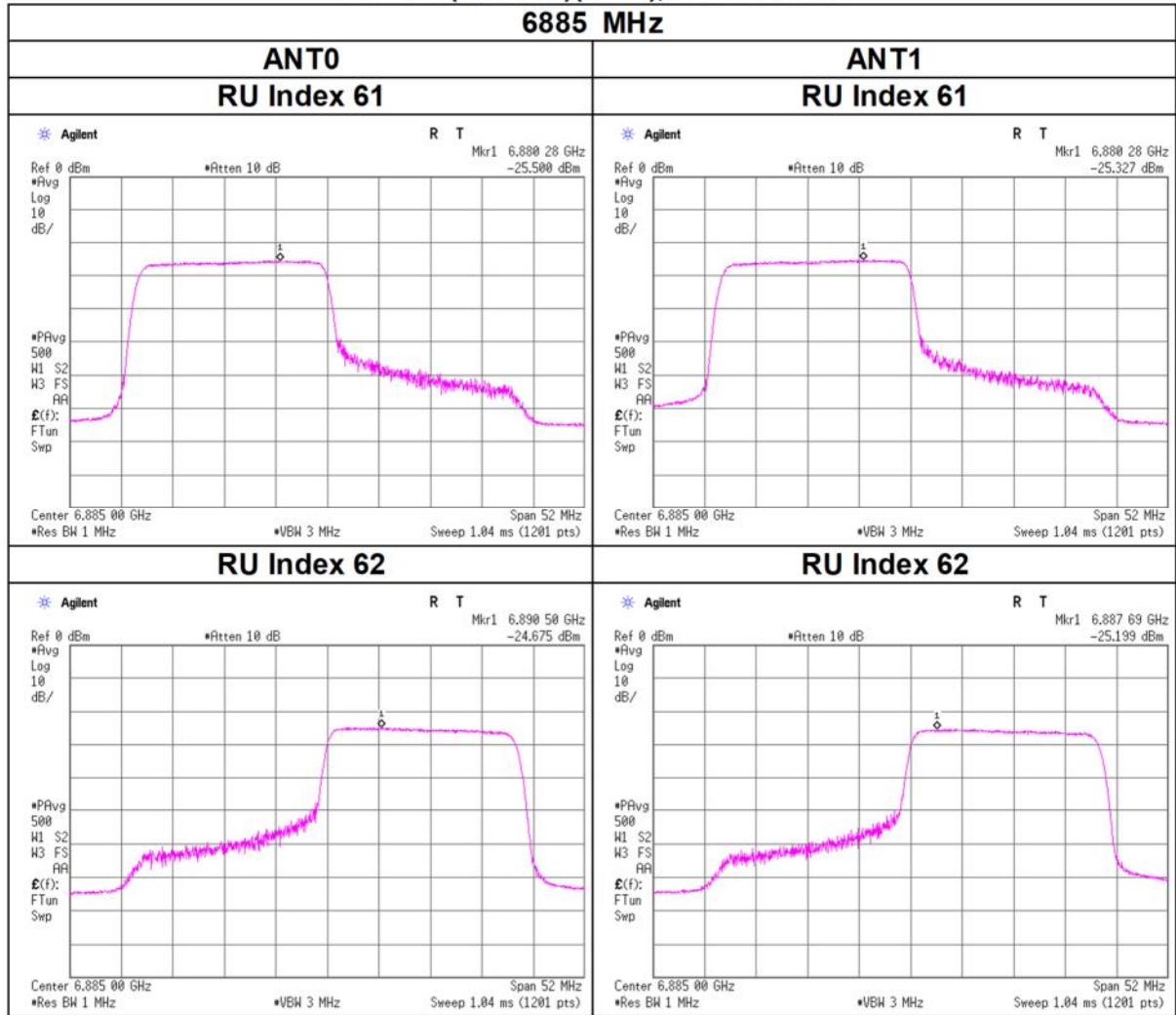
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



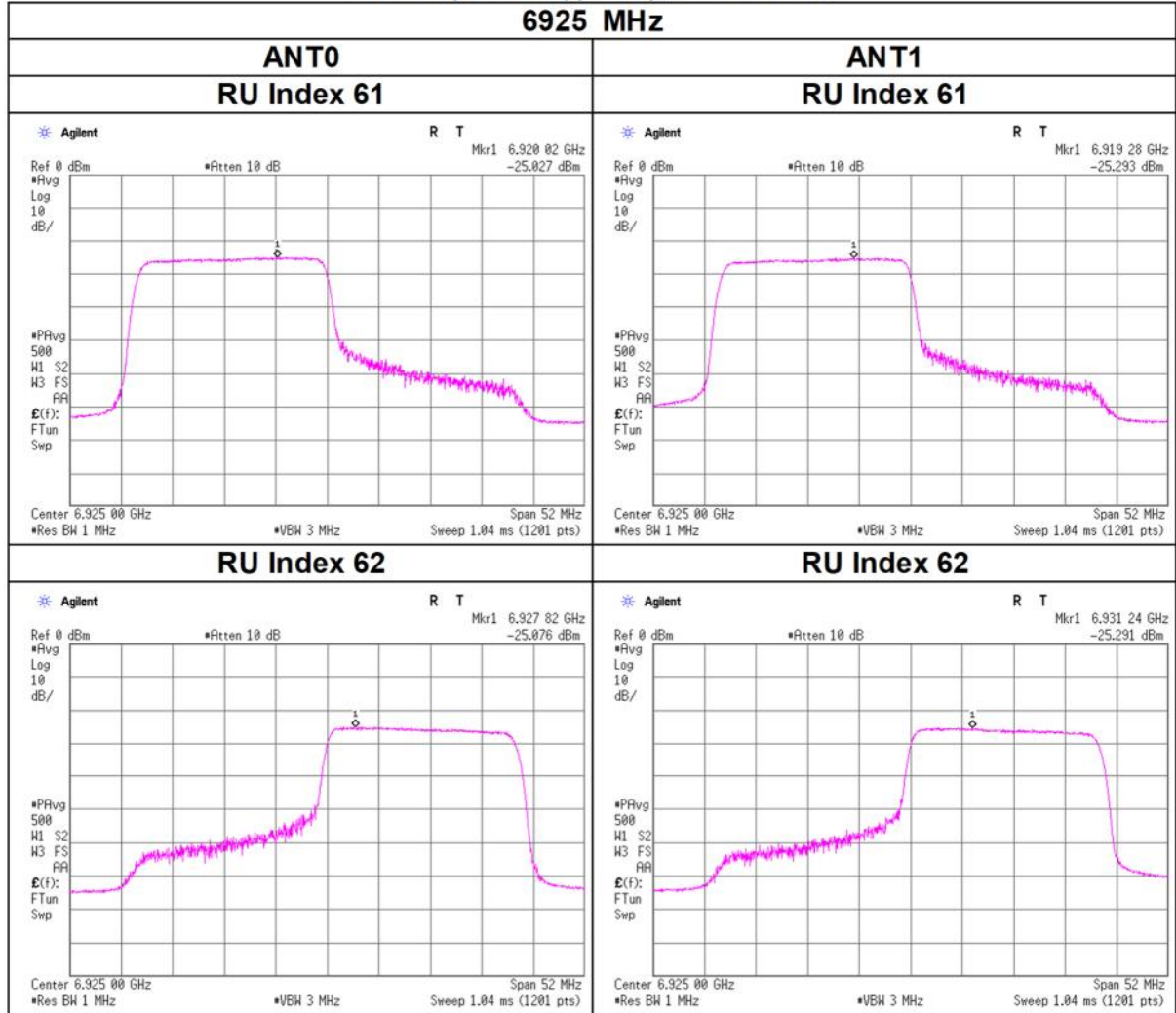
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



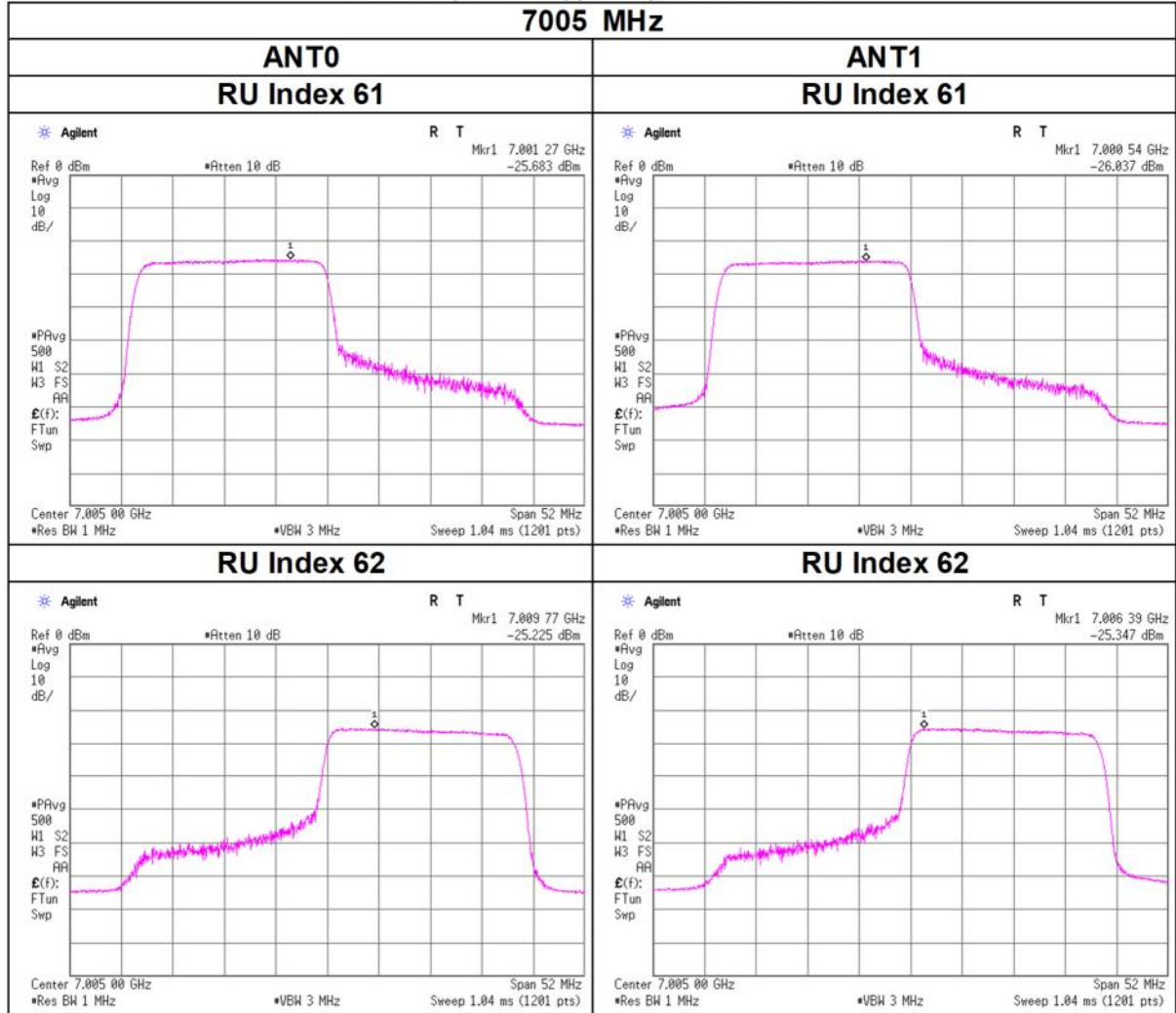
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



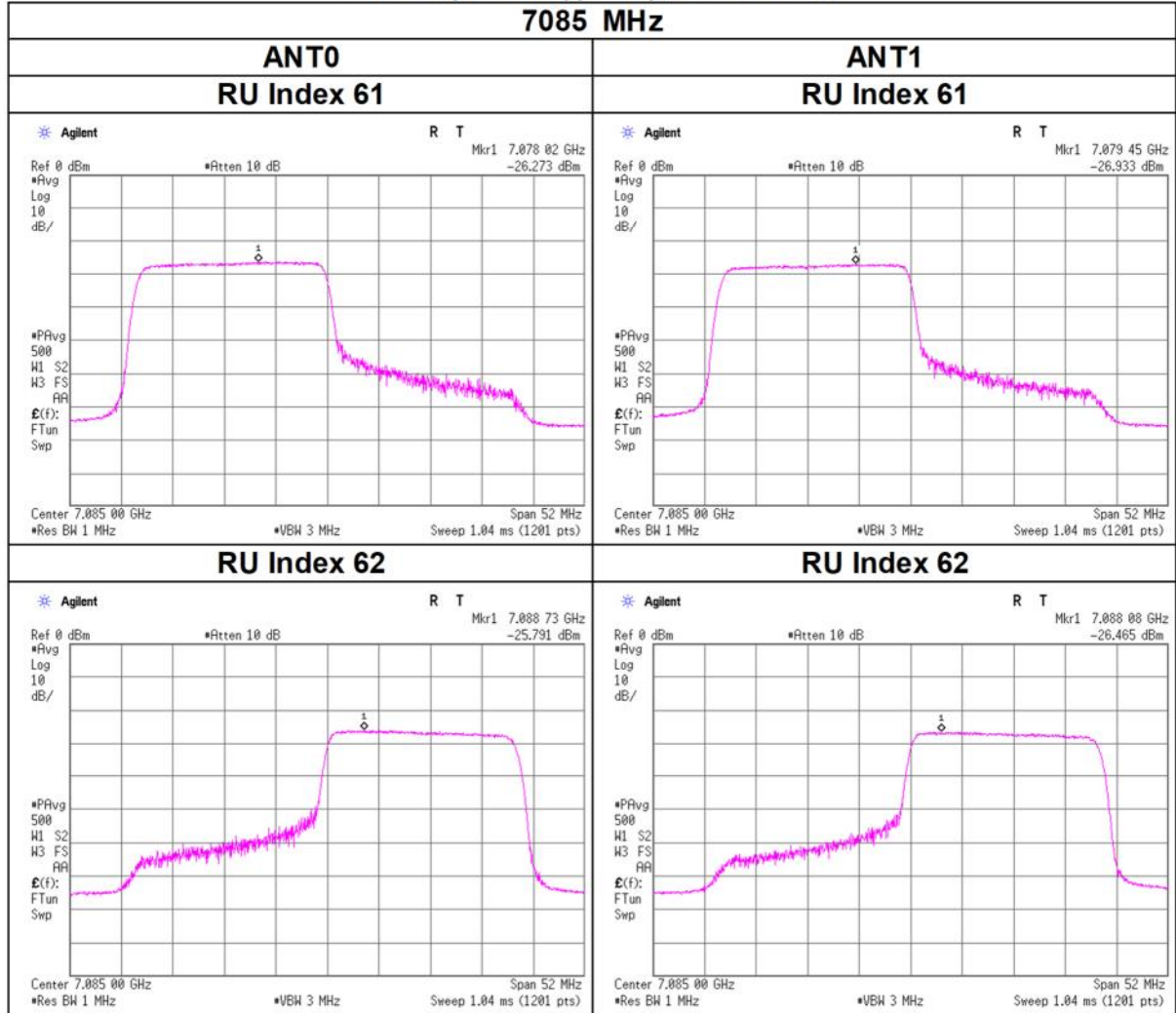
Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 242-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 24, 2024
Temperature / Humidity 24 deg. C / 41 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-40 (OFDMA) 484-tone RU (SDM)

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
[MHz]		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]
5965	65	0.12	0.15	0.28	-5.59	-	-	0.18	0.22	0.40	-3.98	-1.00	2.98
6205	65	0.11	0.13	0.25	-6.11	-	-	0.16	0.19	0.36	-4.50	-1.00	3.50
6405	65	0.13	0.15	0.27	-5.62	-	-	0.18	0.21	0.40	-4.01	-1.00	3.01
6445	65	0.12	0.21	0.33	-4.78	-	-	0.18	0.30	0.48	-3.17	-1.00	2.17
6485	65	0.11	0.18	0.30	-5.28	-	-	0.17	0.26	0.43	-3.67	-1.00	2.67
6525	65	0.12	0.20	0.32	-4.93	-	-	0.17	0.29	0.47	-3.32	-1.00	2.32

ANT0								ANT1						
Tested Frequency	RU Index	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Antenn Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Antenn Gain	PSD Result	PSD Result	PSD Result
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5965	65	0.07	-22.45	3.27	9.98	1.61	-9.14	-7.53	-21.57	3.29	10.10	1.61	-8.12	-6.51
6205	65	0.07	-22.85	3.34	9.98	1.61	-9.46	-7.85	-22.33	3.36	10.10	1.61	-8.80	-7.19
6405	65	0.07	-22.45	3.39	9.99	1.61	-9.00	-7.39	-21.88	3.41	10.11	1.61	-8.29	-6.68
6445	65	0.07	-22.56	3.40	9.99	1.61	-9.10	-7.49	-20.38	3.42	10.11	1.61	-6.78	-5.17
6485	65	0.07	-22.88	3.41	9.99	1.61	-9.41	-7.80	-21.02	3.43	10.11	1.61	-7.40	-5.79
6525	65	0.07	-22.69	3.42	9.99	1.61	-9.21	-7.60	-20.59	3.45	10.11	1.61	-6.96	-5.35

Sample Calculation:

PSD: Power Spectral Density

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

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

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
[MHz]		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]
6565	65	0.14	0.14	0.28	-5.46	-	-	0.16	0.17	0.33	-4.86	-1.00	3.86
6685	65	0.14	0.15	0.29	-5.33	-	-	0.16	0.17	0.34	-4.73	-1.00	3.73
6845	65	0.11	0.13	0.25	-6.07	-	-	0.13	0.15	0.28	-5.47	-1.00	4.47
6885	65	0.13	0.11	0.24	-6.15	-	-	0.15	0.12	0.28	-5.55	-1.00	4.55
6925	65	0.12	0.11	0.23	-6.31	-	-	0.14	0.13	0.27	-5.71	-1.00	4.71
7005	65	0.13	0.12	0.25	-5.99	-	-	0.15	0.14	0.29	-5.39	-1.00	4.39
7085	65	0.11	0.12	0.24	-6.24	-	-	0.13	0.14	0.27	-5.64	-1.00	4.64

ANT0								ANT1						
Tested Frequency	RU Index	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Result	PSD Result
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
6565	65	0.07	-22.05	3.44	9.99	0.60	-8.56	-7.96	-22.03	3.46	10.11	0.60	-8.39	-7.79
6685	65	0.07	-21.98	3.47	9.99	0.60	-8.45	-7.85	-21.90	3.49	10.12	0.60	-8.23	-7.63
6845	65	0.07	-23.03	3.51	9.99	0.60	-9.46	-8.86	-22.45	3.53	10.12	0.60	-8.73	-8.13
6885	65	0.07	-22.31	3.52	9.99	0.60	-8.72	-8.12	-23.39	3.55	10.12	0.60	-9.66	-9.06
6925	65	0.07	-22.81	3.54	9.99	0.60	-9.21	-8.61	-23.18	3.56	10.12	0.60	-9.43	-8.83
7005	65	0.07	-22.45	3.56	9.99	0.60	-8.83	-8.23	-22.95	3.58	10.12	0.60	-9.18	-8.58
7085	65	0.07	-23.08	3.58	9.99	0.60	-9.44	-8.84	-22.86	3.60	10.12	0.60	-9.07	-8.47

Sample Calculation:

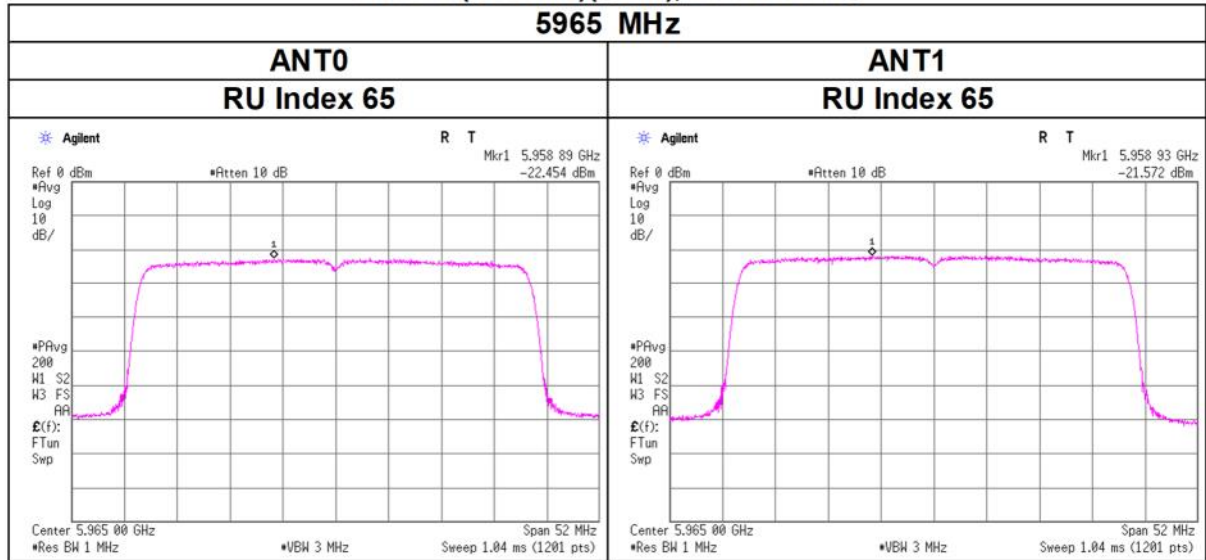
PSD: Power Spectral Density

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

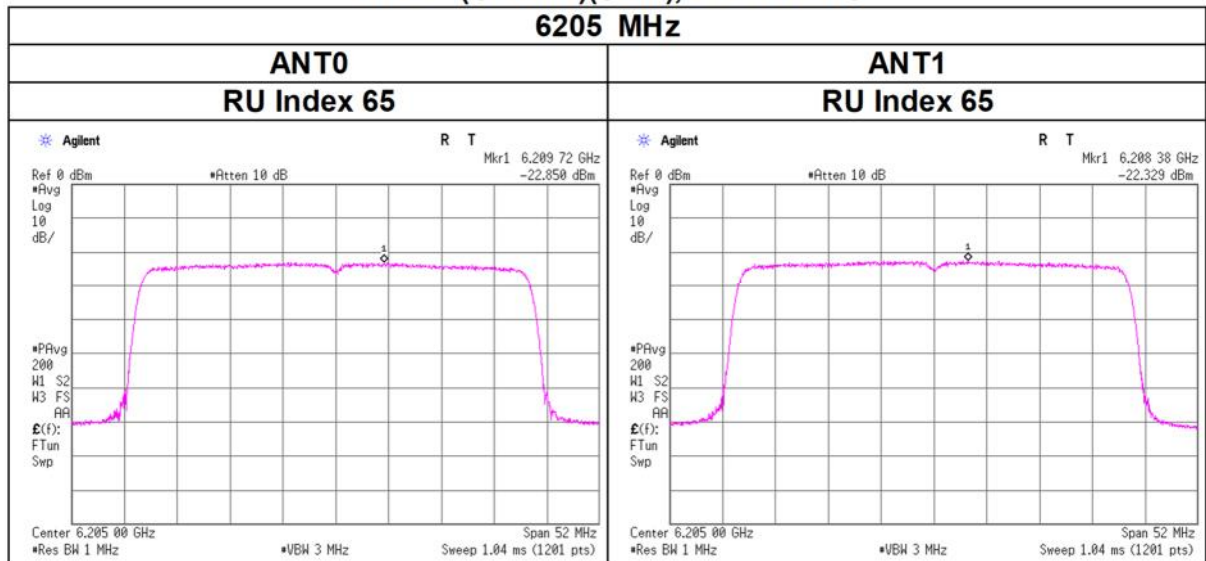
PSD (e.i.r.p.) Result = PSD (Conducted) Result + Antenna Gain

Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 484-tone RU

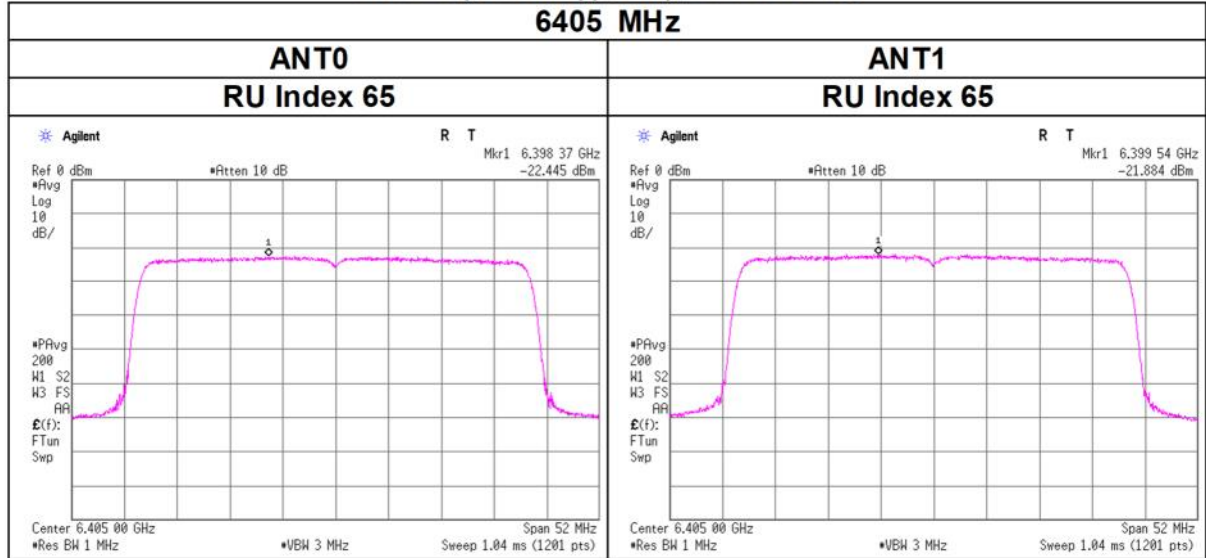


11ax-40(OFDMA)(SDM), 484-tone RU

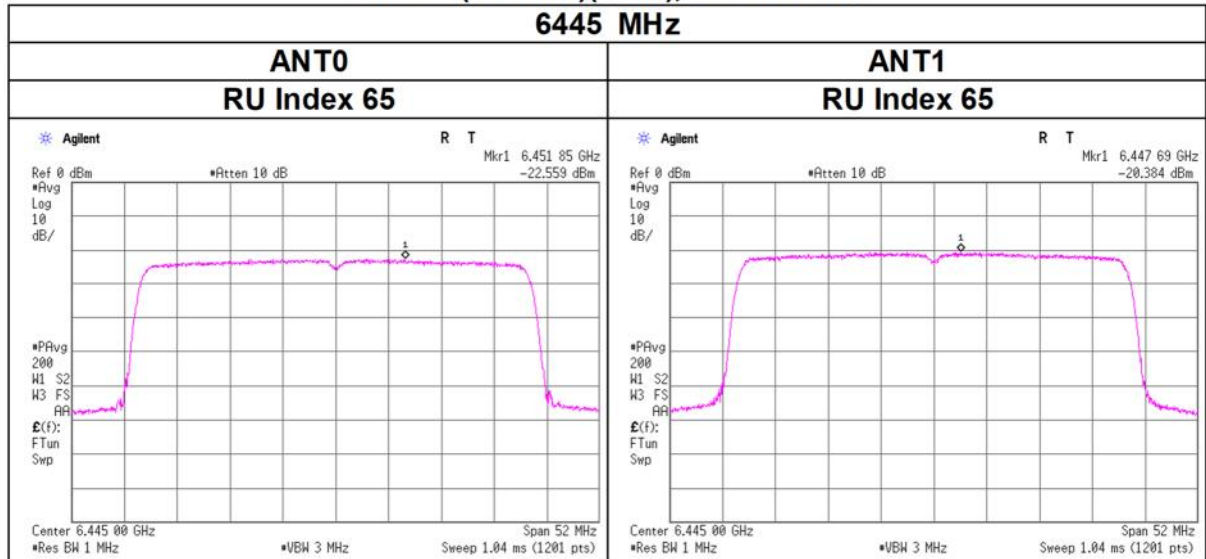


Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 484-tone RU

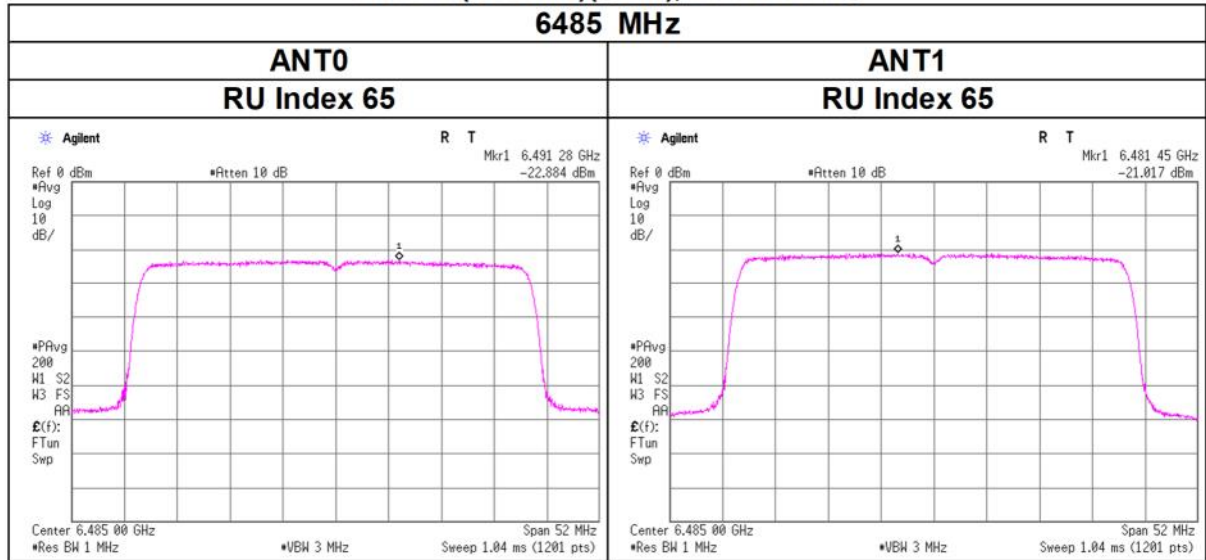


11ax-40(OFDMA)(SDM), 484-tone RU

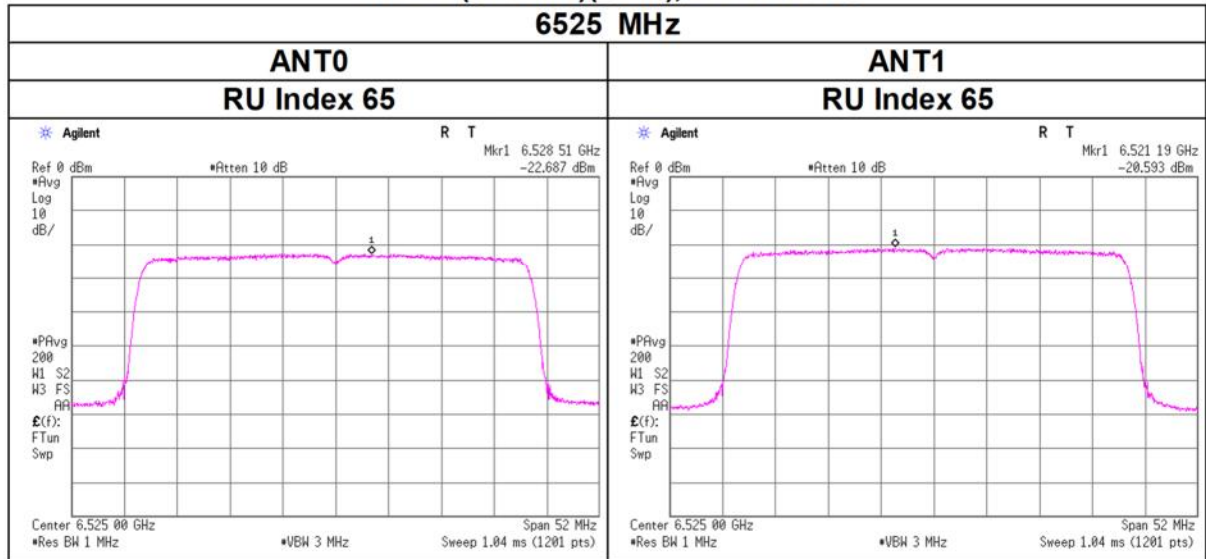


Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 484-tone RU

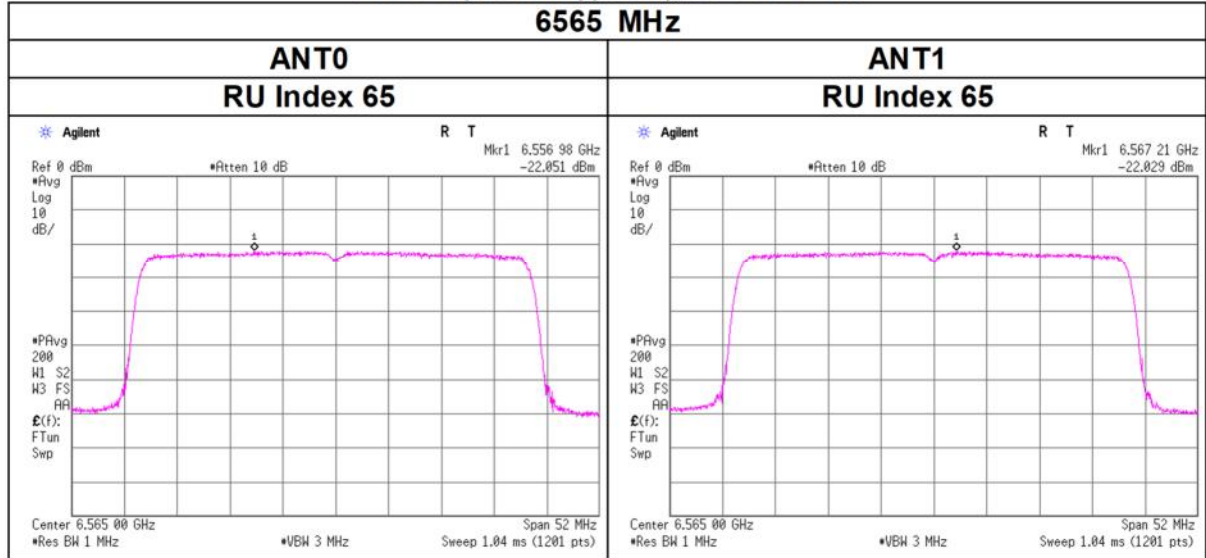


11ax-40(OFDMA)(SDM), 484-tone RU

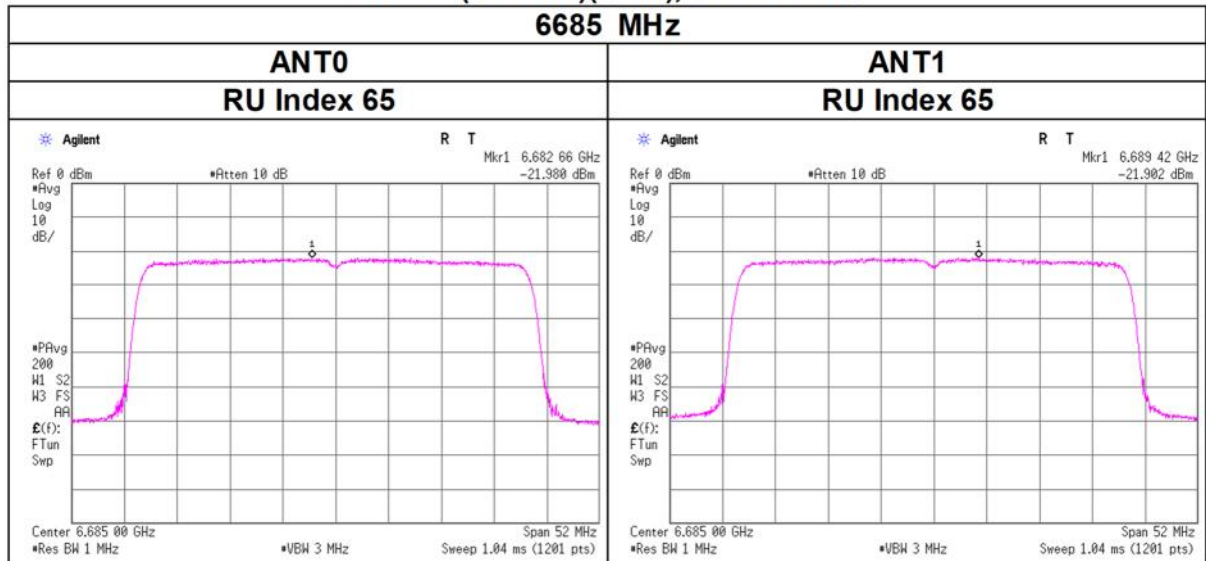


Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 484-tone RU

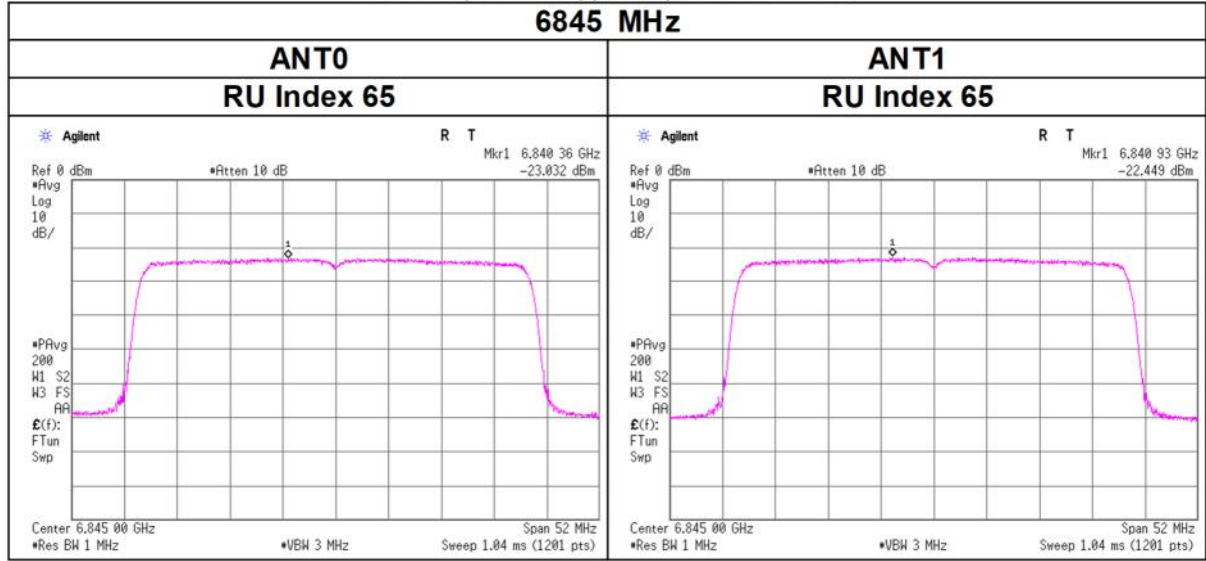


11ax-40(OFDMA)(SDM), 484-tone RU

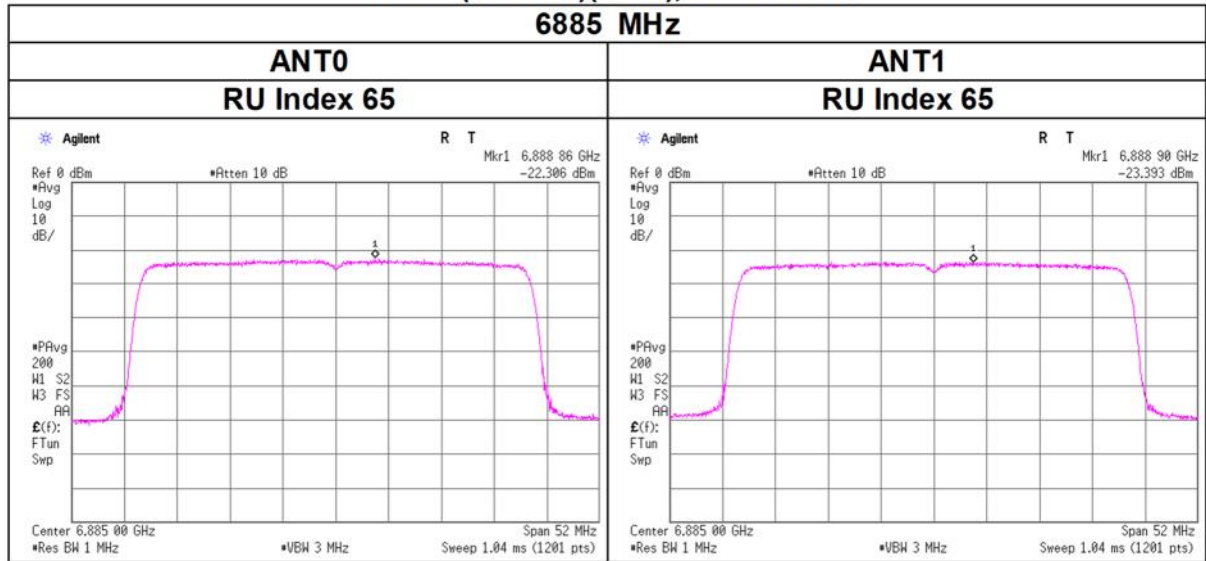


Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 484-tone RU

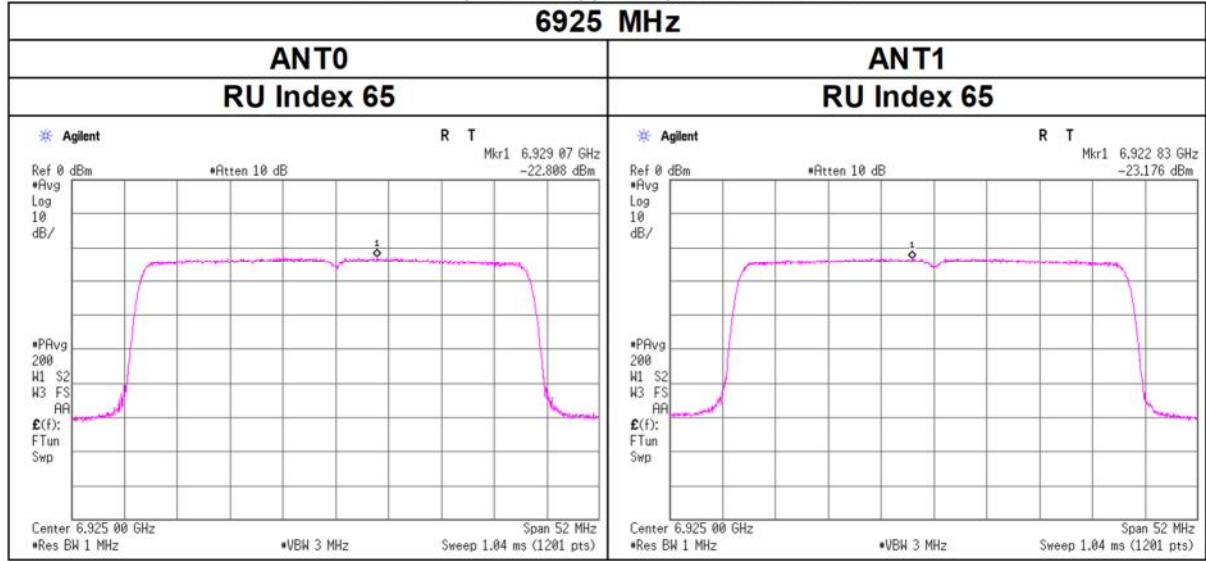


11ax-40(OFDMA)(SDM), 484-tone RU



Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 484-tone RU

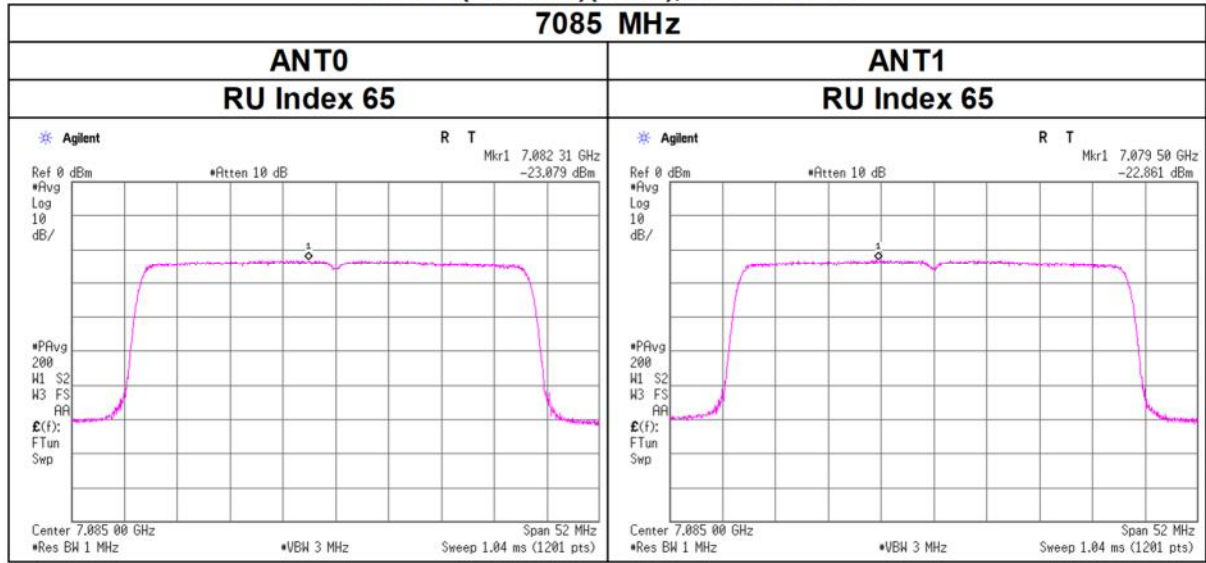


11ax-40(OFDMA)(SDM), 484-tone RU



Maximum Power Spectral Density

11ax-40(OFDMA)(SDM), 484-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 24, 2024
Temperature / Humidity 24 deg. C / 41 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-40 (OFDMA) 484-tone RU (CDD)

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
[MHz]		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]
5965	65	0.08	0.09	0.17	-7.81	-	-	0.23	0.25	0.48	-3.18	-1.00	2.18
6205	65	0.06	0.08	0.13	-8.71	-	-	0.17	0.22	0.39	-4.08	-1.00	3.08
6405	65	0.07	0.09	0.15	-8.18	-	-	0.19	0.25	0.44	-3.55	-1.00	2.55
6445	65	0.06	0.12	0.18	-7.40	-	-	0.19	0.34	0.53	-2.77	-1.00	1.77
6485	65	0.06	0.10	0.16	-7.88	-	-	0.18	0.29	0.47	-3.25	-1.00	2.25
6525	65	0.07	0.12	0.18	-7.34	-	-	0.20	0.33	0.54	-2.71	-1.00	1.71

ANT0								ANT1							
Tested Frequency	RU Index	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dB]	[dBi]
5965	65	0.07	-24.37	3.27	9.98	4.63	-11.05	-6.42	-24.07	3.29	10.10	4.63	-10.61	-5.98	-5.98
6205	65	0.07	-25.75	3.34	9.98	4.63	-12.36	-7.73	-24.70	3.36	10.10	4.63	-11.16	-6.53	-6.53
6405	65	0.07	-25.24	3.39	9.99	4.63	-11.79	-7.16	-24.26	3.41	10.11	4.63	-10.66	-6.03	-6.03
6445	65	0.07	-25.34	3.40	9.99	4.63	-11.89	-7.26	-22.92	3.42	10.11	4.63	-9.32	-4.69	-4.69
6485	65	0.07	-25.57	3.41	9.99	4.63	-12.10	-7.47	-23.56	3.43	10.11	4.63	-9.94	-5.31	-5.31
6525	65	0.07	-25.09	3.42	9.99	4.63	-11.61	-6.98	-23.01	3.45	10.11	4.63	-9.38	-4.75	-4.75

Sample Calculation:

PSD: Power Spectral Density

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

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

Directional Gain = Antenna Gain + Arry Gain, Arry Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
[MHz]		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]
6565	65	0.07	0.09	0.16	-7.96	-	-	0.16	0.21	0.37	-4.34	-1.00	3.34
6685	65	0.07	0.09	0.16	-7.99	-	-	0.17	0.20	0.37	-4.37	-1.00	3.37
6845	65	0.06	0.07	0.13	-8.82	-	-	0.14	0.16	0.30	-5.20	-1.00	4.20
6885	65	0.06	0.06	0.12	-9.24	-	-	0.14	0.14	0.27	-5.62	-1.00	4.62
6925	65	0.06	0.06	0.12	-9.33	-	-	0.13	0.13	0.27	-5.71	-1.00	4.71
7005	65	0.05	0.06	0.11	-9.67	-	-	0.12	0.13	0.25	-6.05	-1.00	5.05
7085	65	0.06	0.05	0.11	-9.72	-	-	0.13	0.11	0.25	-6.10	-1.00	5.10

ANT0								ANT1							
Tested Frequency	RU Index	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dB]	[dBi]
6565	65	0.07	-24.99	3.44	9.99	3.62	-11.50	-7.88	-24.14	3.46	10.11	3.62	-10.50	-6.88	-6.88
6685	65	0.07	-24.92	3.47	9.99	3.62	-11.39	-7.77	-24.32	3.49	10.12	3.62	-10.64	-7.02	-7.02
6845	65	0.07	-25.66	3.51	9.99	3.62	-12.09	-8.47	-25.32	3.53	10.12	3.62	-11.59	-7.97	-7.97
6885	65	0.07	-25.84	3.52	9.99	3.62	-12.25	-8.63	-25.99	3.55	10.12	3.62	-12.25	-8.63	-8.63
6925	65	0.07	-25.93	3.54	9.99	3.62	-12.33	-8.71	-26.10	3.56	10.12	3.62	-12.35	-8.73	-8.73
7005	65	0.07	-26.39	3.56	9.99	3.62	-12.77	-9.15	-26.36	3.58	10.12	3.62	-12.59	-8.97	-8.97
7085	65	0.07	-26.06	3.58	9.99	3.62	-12.41	-8.79	-26.86	3.60	10.12	3.62	-13.07	-9.45	-9.45

Sample Calculation:

PSD: Power Spectral Density

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

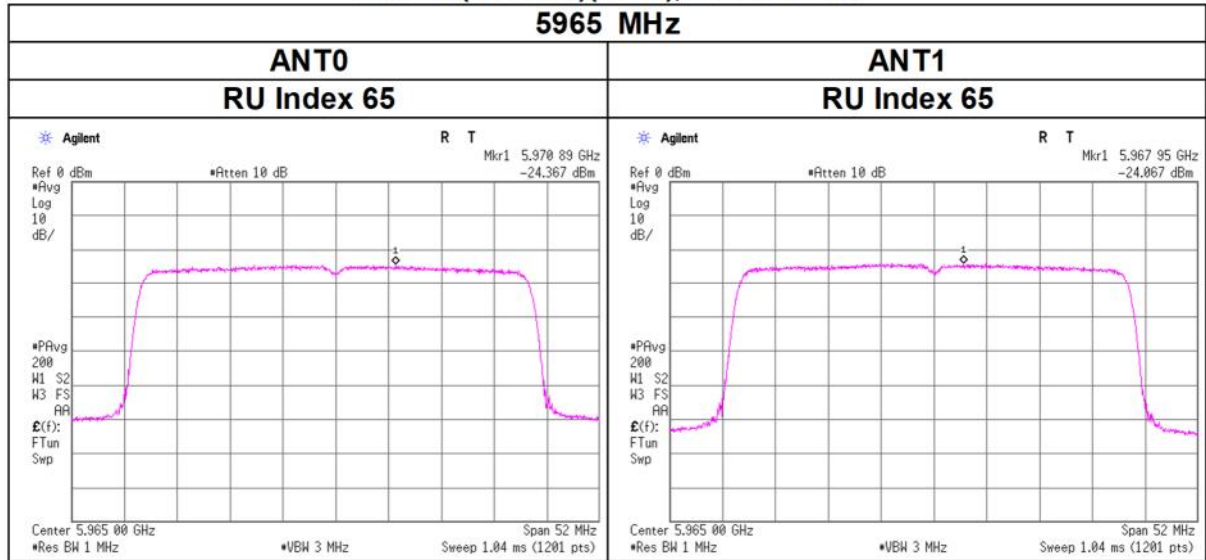
PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Arry Gain, Arry Gain = 10log(Number of transmit antennas / Number of spatial streams)

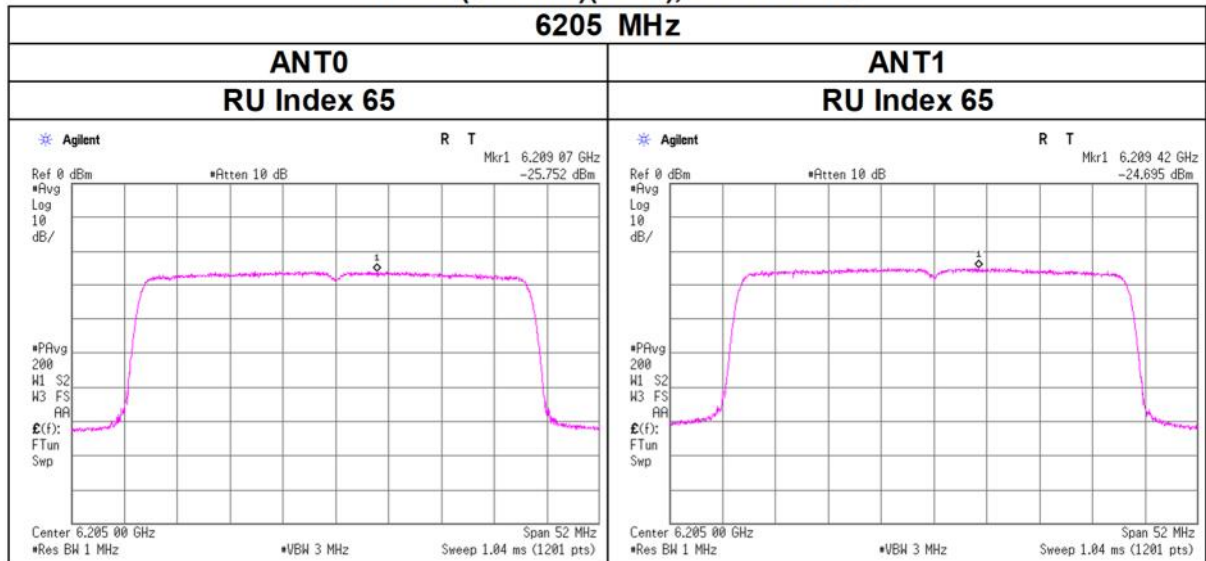
Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 484-tone RU

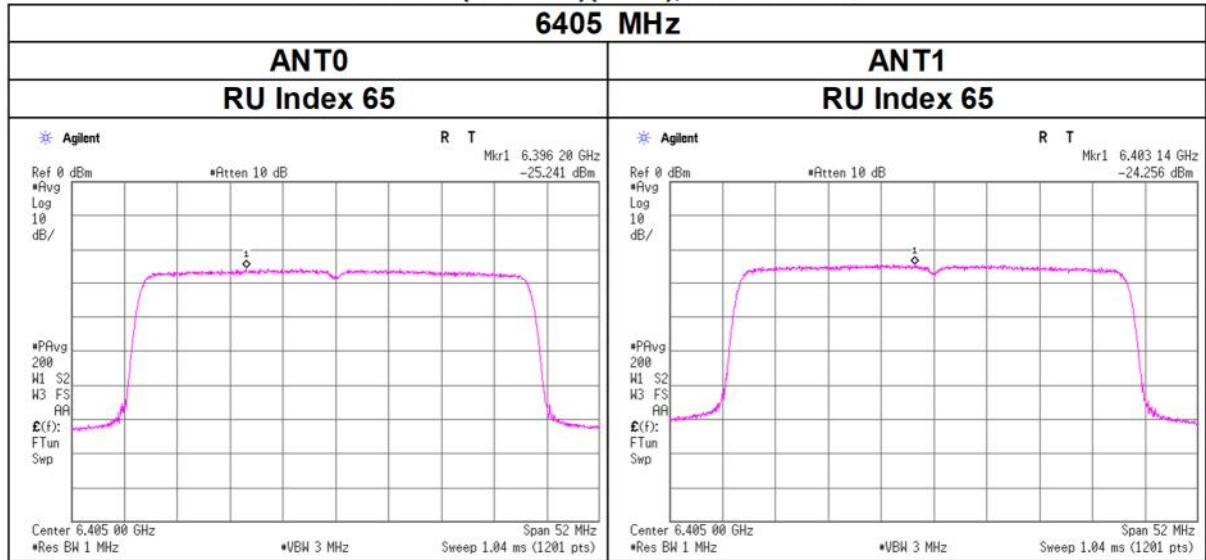


11ax-40(OFDMA)(CDD), 484-tone RU

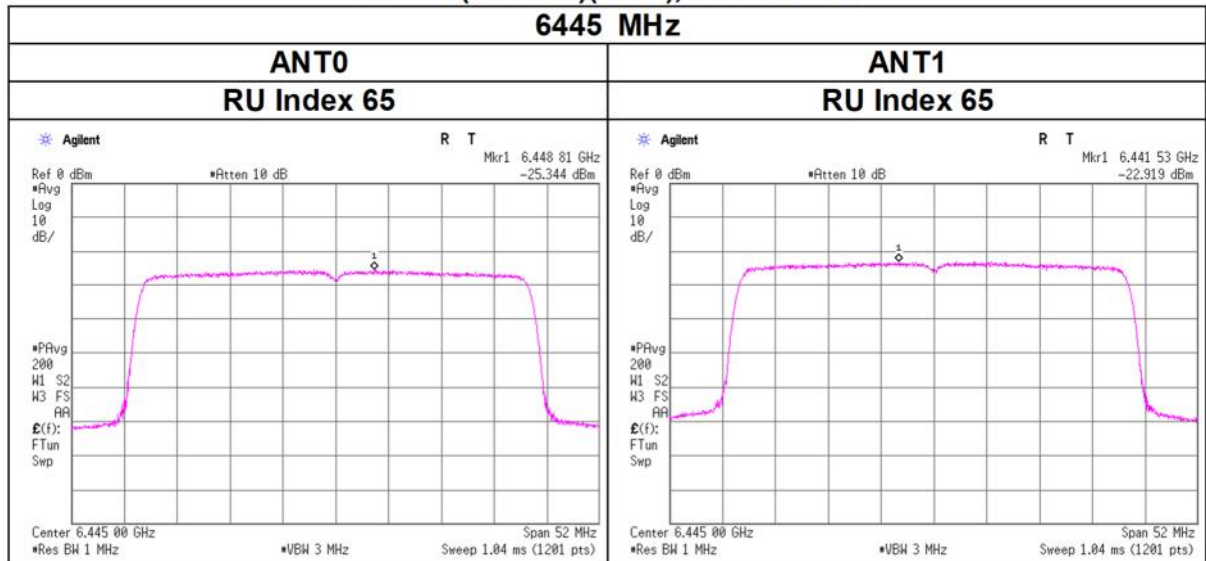


Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 484-tone RU

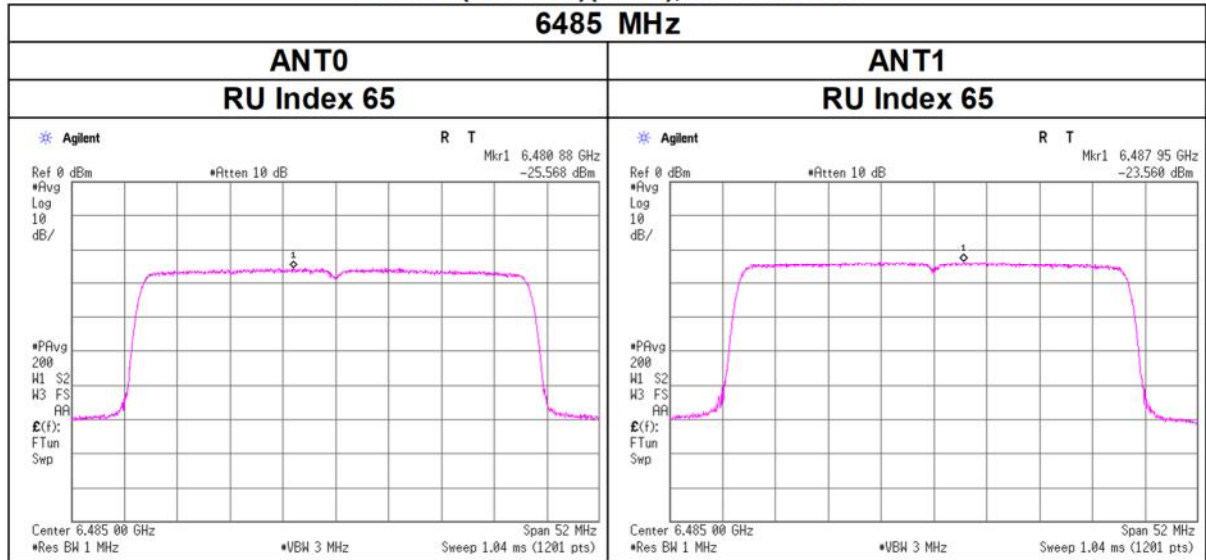


11ax-40(OFDMA)(CDD), 484-tone RU

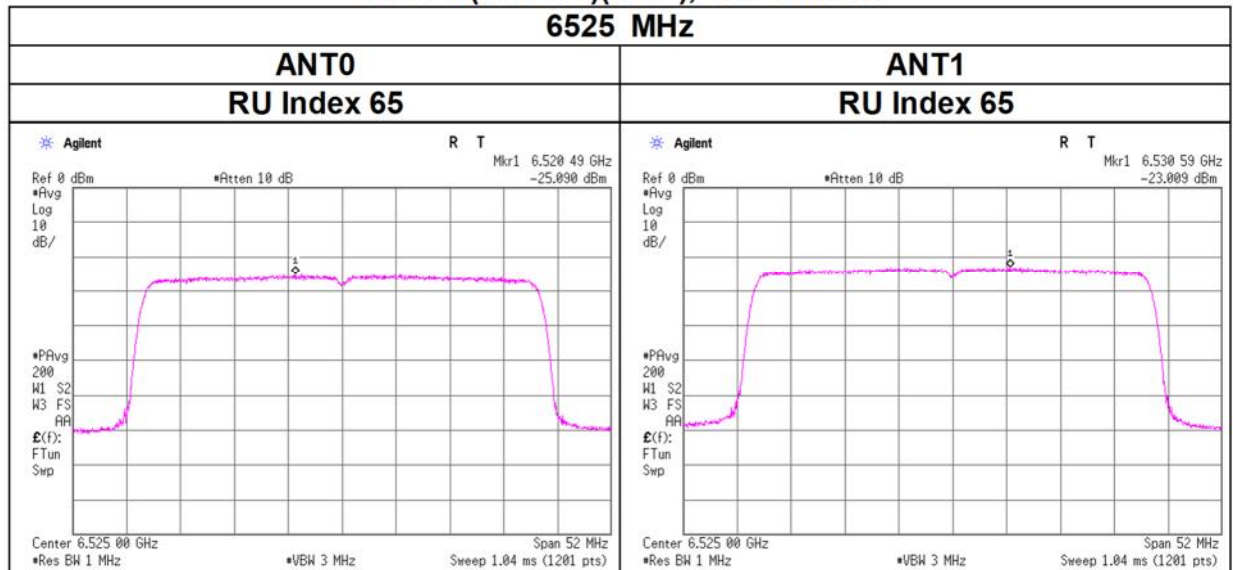


Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 484-tone RU

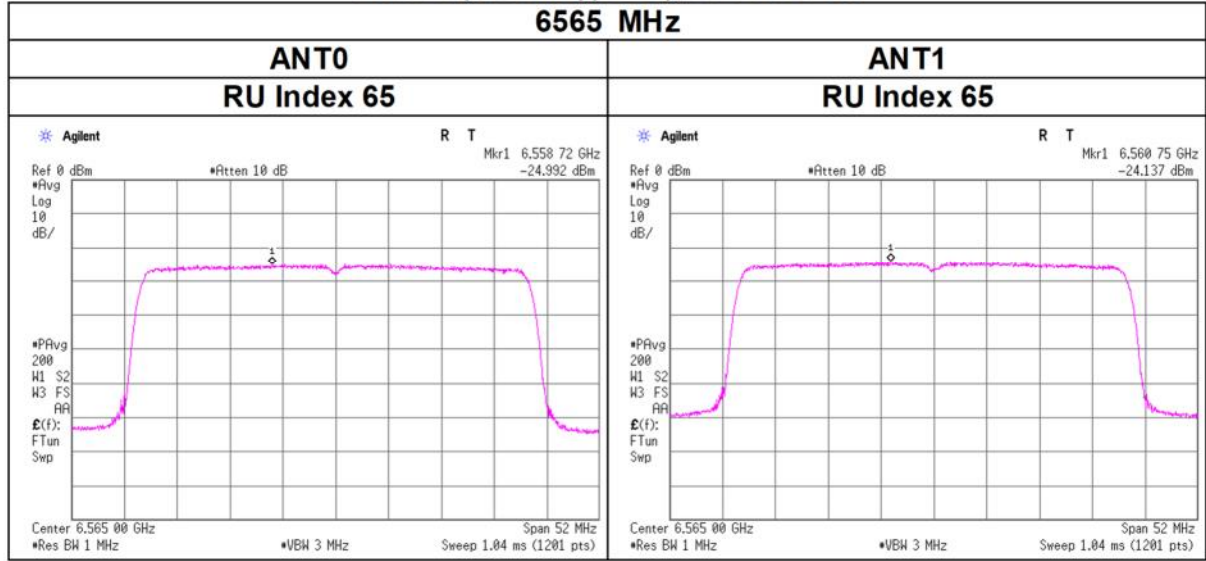


11ax-40(OFDMA)(CDD), 484-tone RU

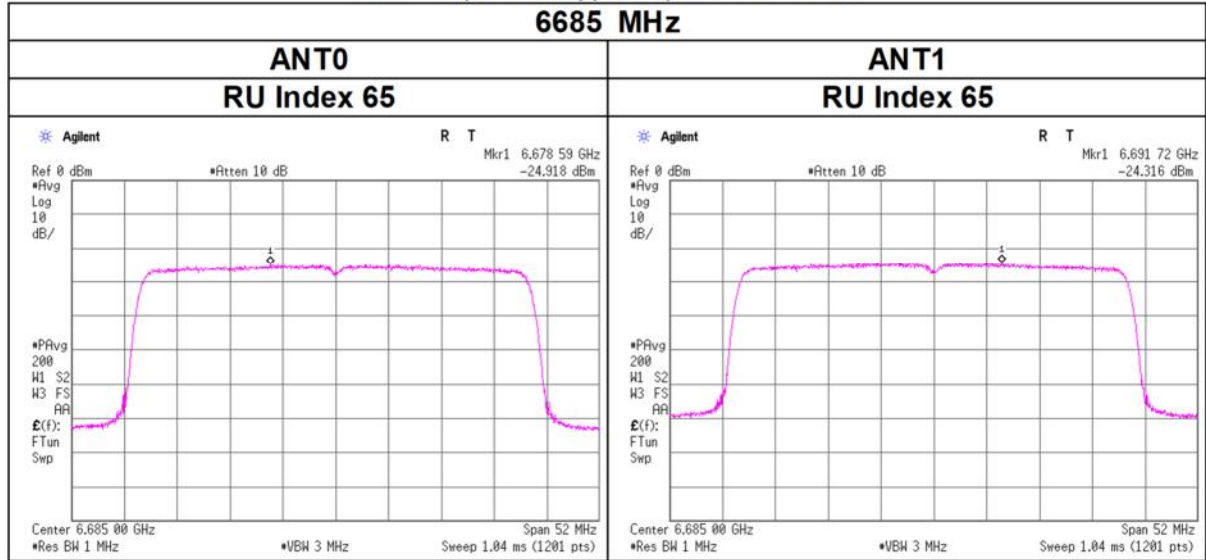


Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 484-tone RU

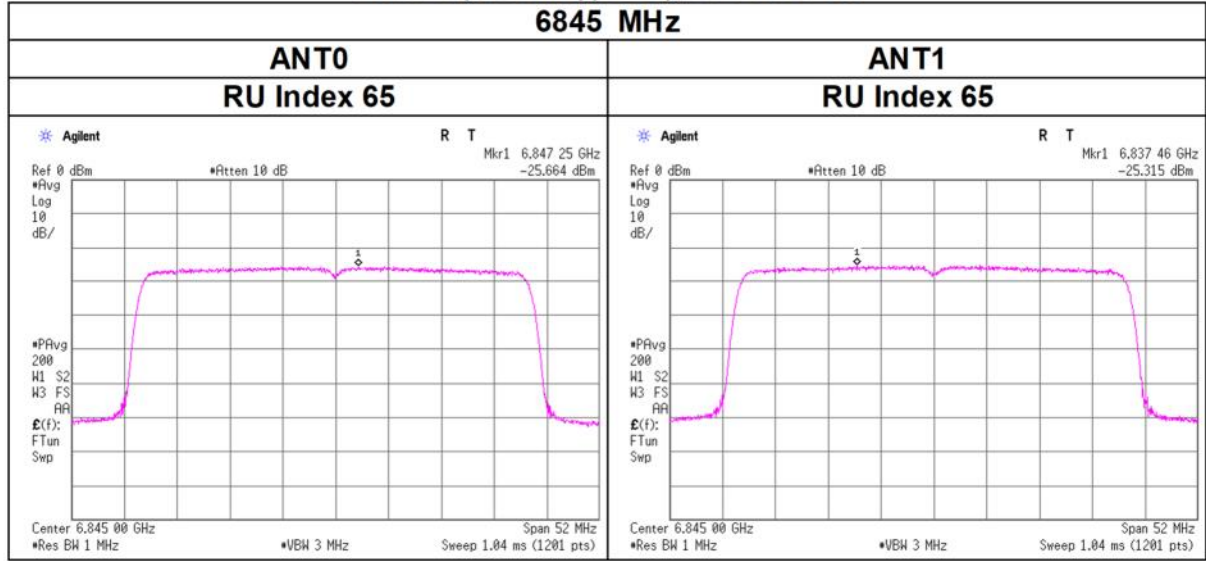


11ax-40(OFDMA)(CDD), 484-tone RU

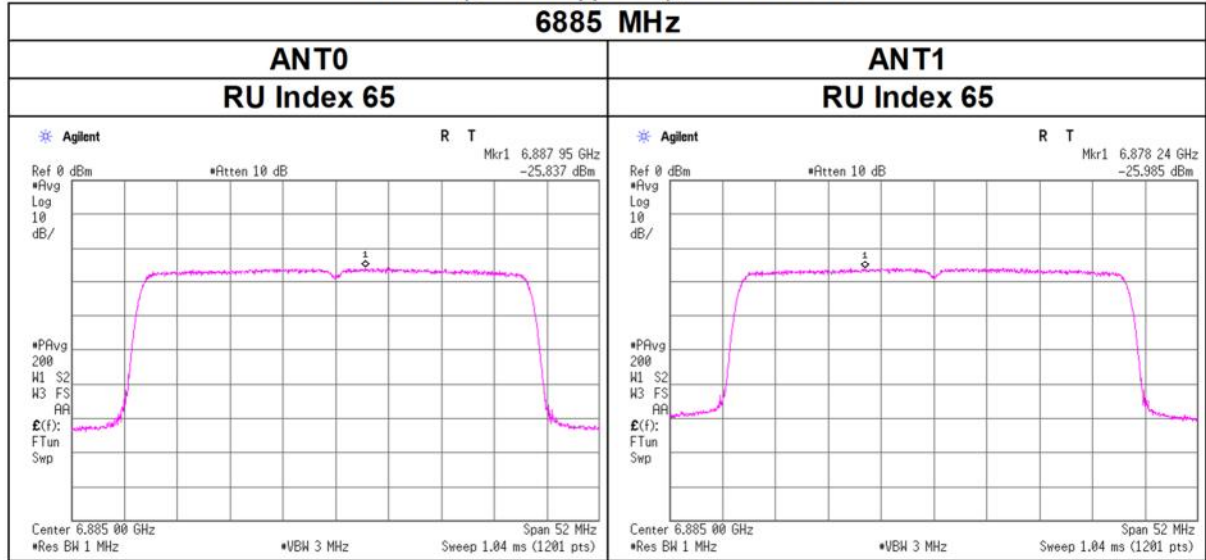


Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 484-tone RU

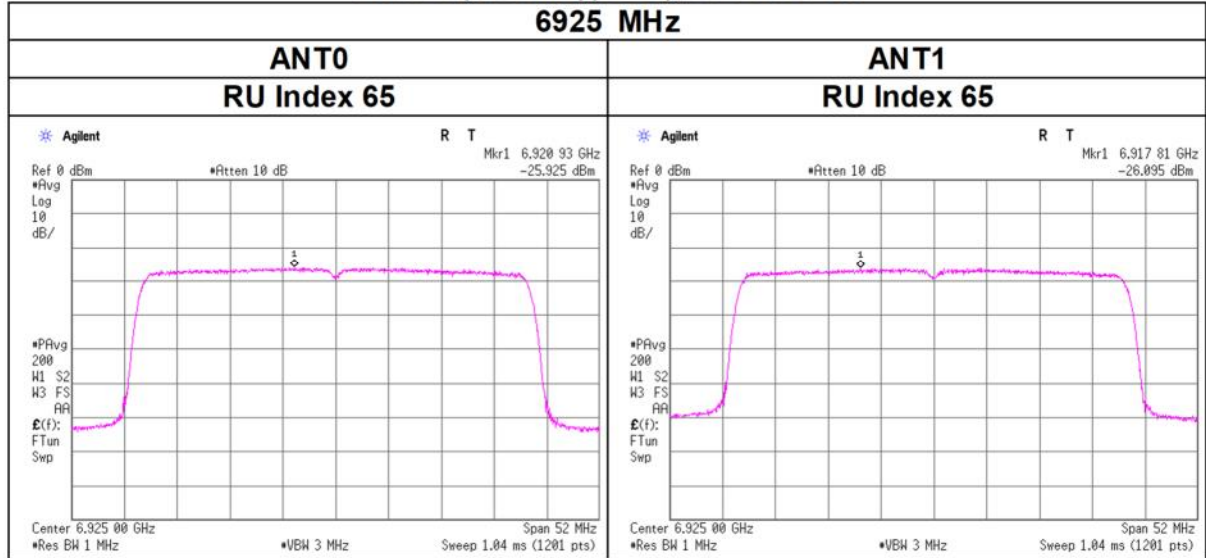


11ax-40(OFDMA)(CDD), 484-tone RU

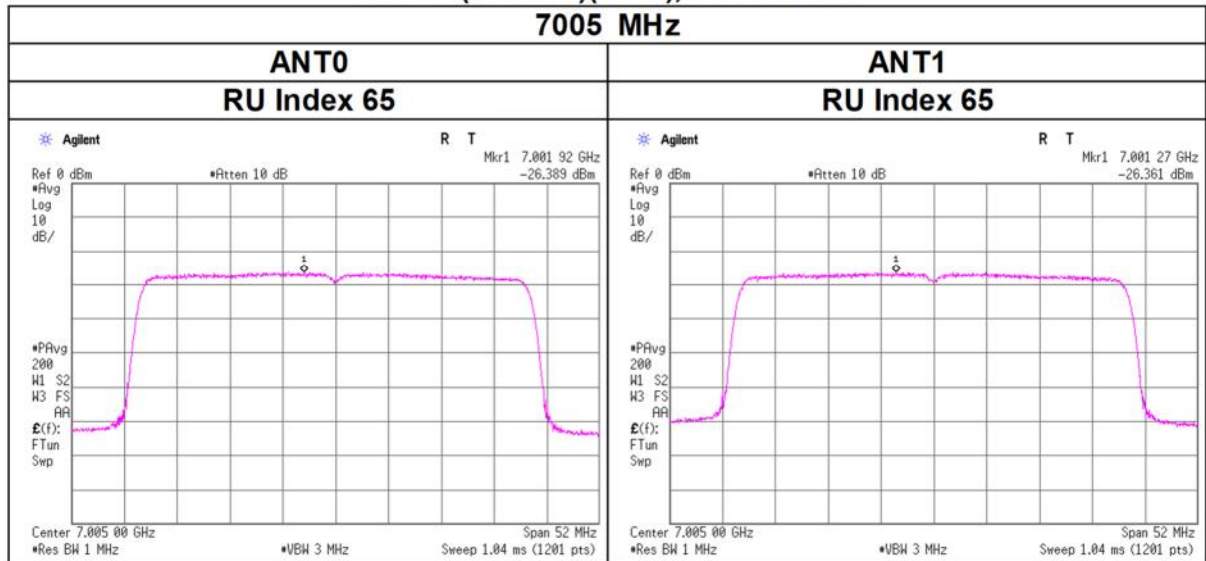


Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 484-tone RU

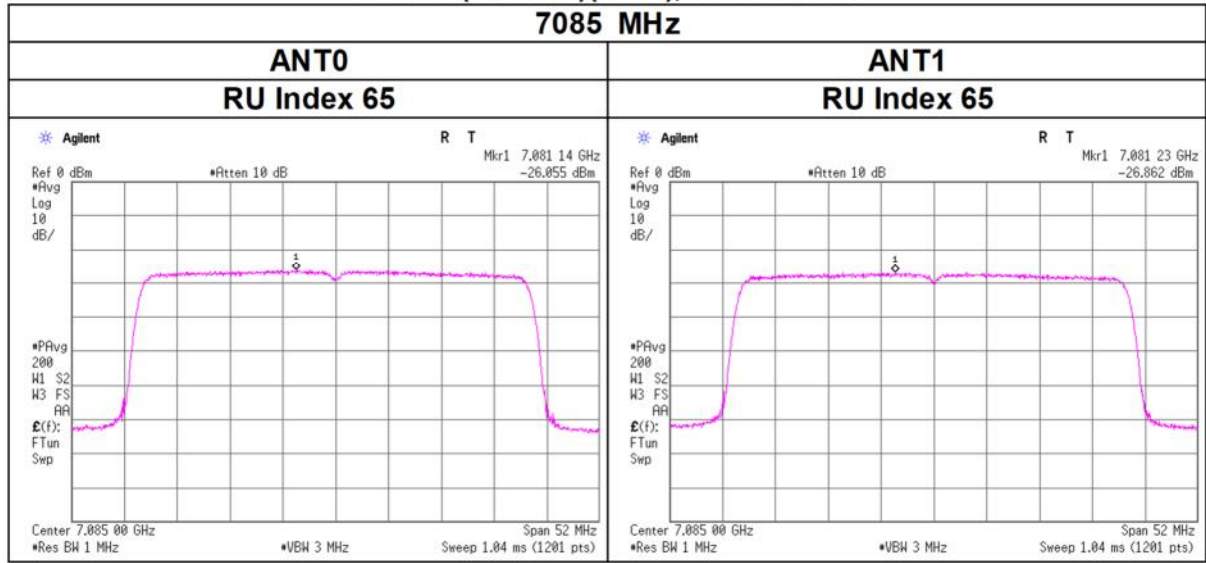


11ax-40(OFDMA)(CDD), 484-tone RU



Maximum Power Spectral Density

11ax-40(OFDMA)(CDD), 484-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date February 21, 2024
Temperature / Humidity 25 deg. C / 47 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-80(OFDM) (SDM).

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency [MHz]	PSD (Cond.)						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]			
5985	0.09	0.10	0.18	-7.35	-	-	0.12	0.14	0.27	-5.74	-1.00	4.74
6225	0.10	0.10	0.20	-6.94	-	-	0.15	0.14	0.29	-5.33	-1.00	4.33
6385	0.10	0.10	0.19	-7.12	-	-	0.14	0.14	0.28	-5.51	-1.00	4.51
6465	0.10	0.11	0.21	-6.79	-	-	0.15	0.16	0.30	-5.18	-1.00	4.18
6545	0.14	0.12	0.26	-5.78	-	-	0.16	0.14	0.30	-5.18	-1.00	4.18
6625	0.13	0.12	0.25	-6.05	-	-	0.15	0.13	0.29	-5.45	-1.00	4.45
6705	0.12	0.13	0.25	-5.96	-	-	0.14	0.15	0.29	-5.36	-1.00	4.36
6865	0.10	0.11	0.22	-6.66	-	-	0.12	0.13	0.25	-6.06	-1.00	5.06
6945	0.11	0.12	0.23	-6.45	-	-	0.12	0.14	0.26	-5.85	-1.00	4.85
7025	0.11	0.10	0.22	-6.60	-	-	0.13	0.12	0.25	-6.00	-1.00	5.00

		ANT0							ANT1					
Tested Frequency	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Antenn Gain	PSD Result		PSD Reading	Cable Loss	Atten. Loss	Antenn Gain	PSD Result		
						Cond.	e.i.r.p.					Cond.	e.i.r.p.	
[MHz]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	
5985	0.11	-22.34	1.36	10.22	1.61	-10.64	-9.03	-21.48	1.34	9.94	1.61	-10.09	-8.48	
6225	0.11	-21.55	1.39	10.23	1.61	-9.83	-8.22	-21.50	1.37	9.94	1.61	-10.08	-8.47	
6385	0.11	-21.96	1.41	10.23	1.61	-10.21	-8.60	-21.49	1.38	9.95	1.61	-10.04	-8.43	
6465	0.11	-21.75	1.42	10.23	1.61	-9.99	-8.38	-21.07	1.39	9.95	1.61	-9.62	-8.01	
6545	0.11	-20.29	1.43	10.23	0.60	-8.52	-7.92	-20.54	1.40	9.95	0.60	-9.08	-8.48	
6625	0.11	-20.57	1.44	10.23	0.60	-8.79	-8.19	-20.82	1.41	9.95	0.60	-9.35	-8.75	
6705	0.11	-20.89	1.45	10.23	0.60	-9.10	-8.50	-20.33	1.42	9.95	0.60	-8.84	-8.24	
6865	0.11	-21.70	1.47	10.23	0.60	-9.89	-9.29	-20.97	1.44	9.95	0.60	-9.46	-8.86	
6945	0.11	-21.51	1.48	10.23	0.60	-9.69	-9.09	-20.75	1.45	9.95	0.60	-9.23	-8.63	
7025	0.11	-21.22	1.48	10.23	0.60	-9.40	-8.80	-21.37	1.46	9.96	0.60	-9.84	-9.24	

Sample Calculation:

PSD: Power Spectral Density

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

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

Maximum Power Spectral Density

11ax-80(OFDM) (SDM)

