

**Underwriters Laboratories Taiwan Co., Ltd.**

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Test report No. : 4790042400-US-R2-V0  
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Issued date : 2022/1/28  
FCC ID : RYK-WNFQ268AXB

Mode	802.11ax(HE160)	Channel	207
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	*	13970	28.27	23.98	52.25	88.2	-35.95	PK
Vertical	*	13970	28.48	23.98	52.46	88.2	-35.74	PK

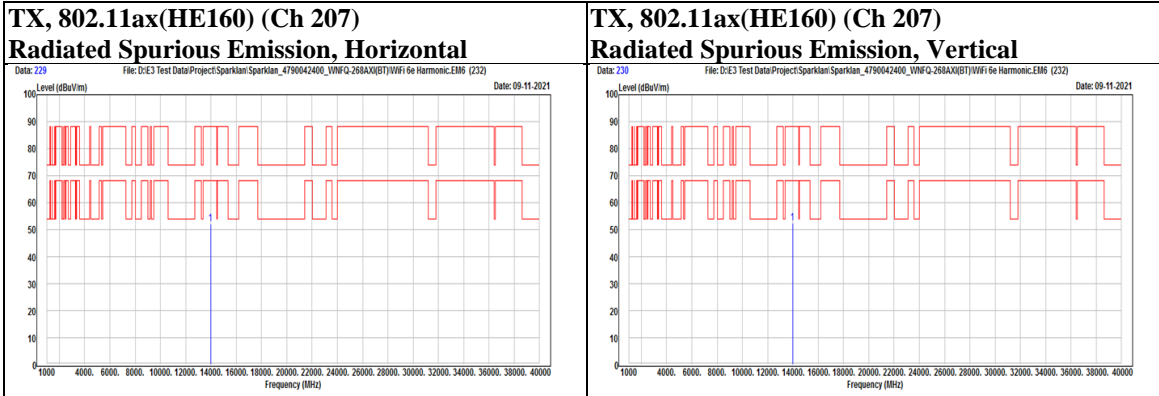
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Doc No: 17-EM-F0988 / 1.0



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### Below 1 GHz

Mode	802.11a	Channel	233
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		99.84	41.52	-16.45	25.07	43.5	-18.43	PK
		144.46	39.1	-11.81	27.29	43.5	-16.21	PK
		214.3	44.55	-13.36	31.19	43.5	-12.31	PK
		232.73	42.66	-12.4	30.26	46	-15.74	PK
		299.66	47.93	-9.94	37.99	46	-8.01	PK
		497.54	37.98	-4.79	33.19	46	-12.81	PK
Vertical		144.46	37.7	-11.81	25.89	43.5	-17.61	PK
		199.75	45.3	-13.91	31.39	43.5	-12.11	PK
		232.73	37.48	-12.4	25.08	46	-20.92	PK
		298.69	41.56	-9.99	31.57	46	-14.43	PK
		482.02	40.05	-5.1	34.95	46	-11.05	PK
		498.51	38.96	-4.79	34.17	46	-11.83	PK

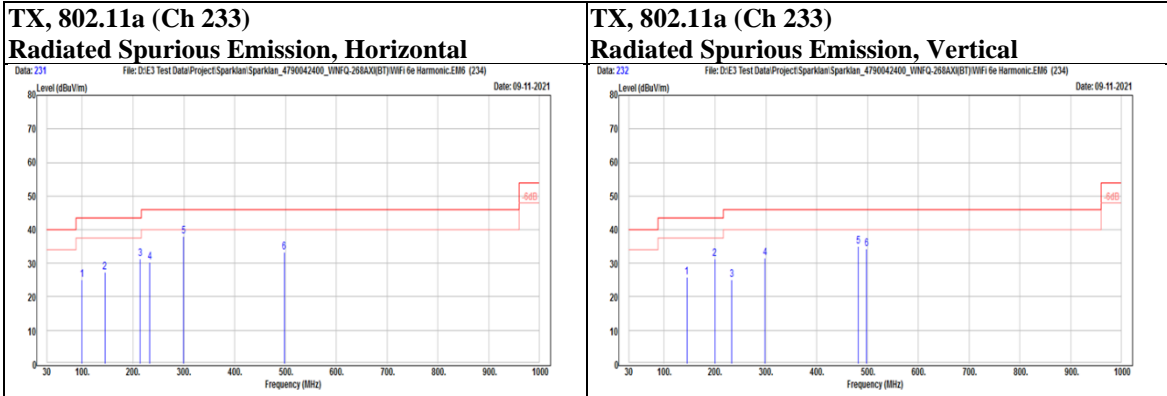
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**Conducted method**

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

Conducted Measurement Reading value has been considered factor offset during the test, detail information as below:

- a. The composite gain will be used when signal support the correlated signal.  
 (Composite gain = Gain + Array Gain = 5 + 10\*log(2) = 8.01dBi)
- b. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:  
 For f = 30 – 1000 MHz, add 4.7 dB.
- c. Following KDB 662911 D01, E)3)a(iii) Measure add 10\*log(N<sub>ANT</sub>) dB, where N<sub>ANT</sub> is the number of outputs = 10\*log(2) = 3.01dBi.

Conducted Measurement Correct value is coming across equation for converting the Field Strength to EIRP, detail information as below:

- a. The test reading used dBuV, converted by dBm = dBuV-107dB. (Conversions for 50ohm systems)
- b. Emission Result (dBuV/m), converted by E (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8 dB.  
 Where d is the measurement distance, in 3 m.  
 Where dBm = dBuV-107 dB.  
 Thus:  

$$E \text{ (dBuV/m)} = \text{dBuV} - 107 - 20\log(3) + 104.8$$

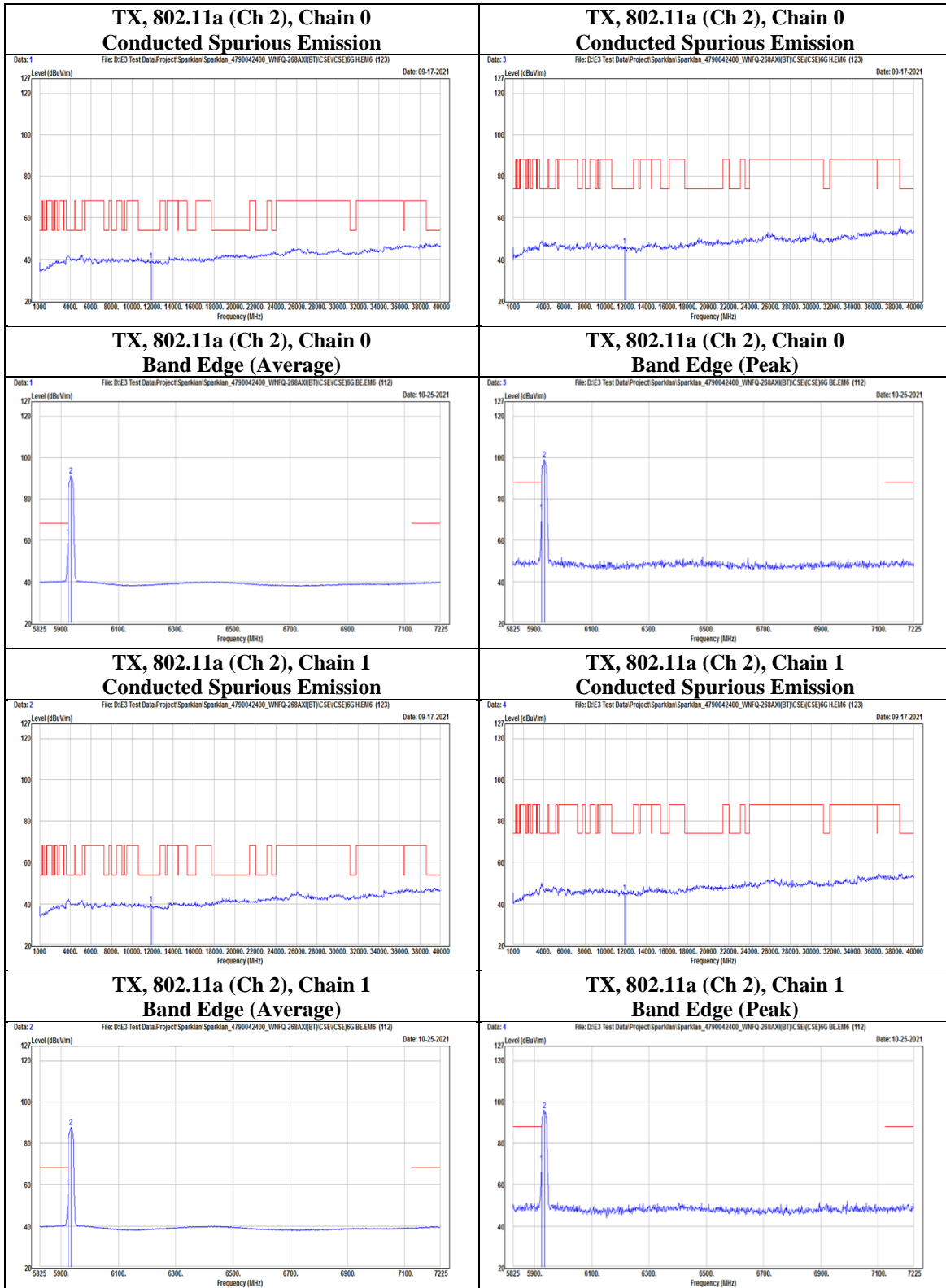
$$= \text{dBuV} - 11.74$$
  
 Correct Factor = -11.74 (dB/m)

**Above 1 GHz**

Mode	802.11a	Channel	2
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5924.4	85.22	-11.74	73.48	88.2	-14.72	PK
		5924.4	73.48	-11.74	61.74	68.2	-6.46	AVG
	@	5935	110.75	-11.74	99.01	N/A	N/A	PK
	@	5935	102.91	-11.74	91.17	N/A	N/A	AVG
		11870	58.23	-11.74	46.49	74	-27.51	PK
		11870	51.18	-11.74	39.44	54	-14.56	AVG
Chain 1		5924.4	82.28	-11.74	70.54	88.2	-17.66	PK
		5924.4	70.26	-11.74	58.52	68.2	-9.68	AVG
	@	5935	107.73	-11.74	95.99	N/A	N/A	PK
	@	5935	99.57	-11.74	87.83	N/A	N/A	AVG
		11870	57.18	-11.74	45.44	74	-28.56	PK
		11870	51.56	-11.74	39.82	54	-14.18	AVG

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Mode	802.11a	Channel	1
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5869.8	63.12	-11.74	51.38	88.2	-36.82	PK
		5913.2	52.01	-11.74	40.27	68.2	-27.93	AVG
	@	5955	109.96	-11.74	98.22	N/A	N/A	PK
	@	5955	101.91	-11.74	90.17	N/A	N/A	AVG
		11910	57.62	-11.74	45.88	74	-28.12	PK
		11910	50.6	-11.74	38.86	54	-15.14	AVG
Chain 1		5846	62.77	-11.74	51.03	88.2	-37.17	PK
		5882.4	51.97	-11.74	40.23	68.2	-27.97	AVG
	@	5955	107.2	-11.74	95.46	N/A	N/A	PK
	@	5955	98.16	-11.74	86.42	N/A	N/A	AVG
		11910	58.07	-11.74	46.33	74	-27.67	PK
		11910	50.85	-11.74	39.11	54	-14.89	AVG

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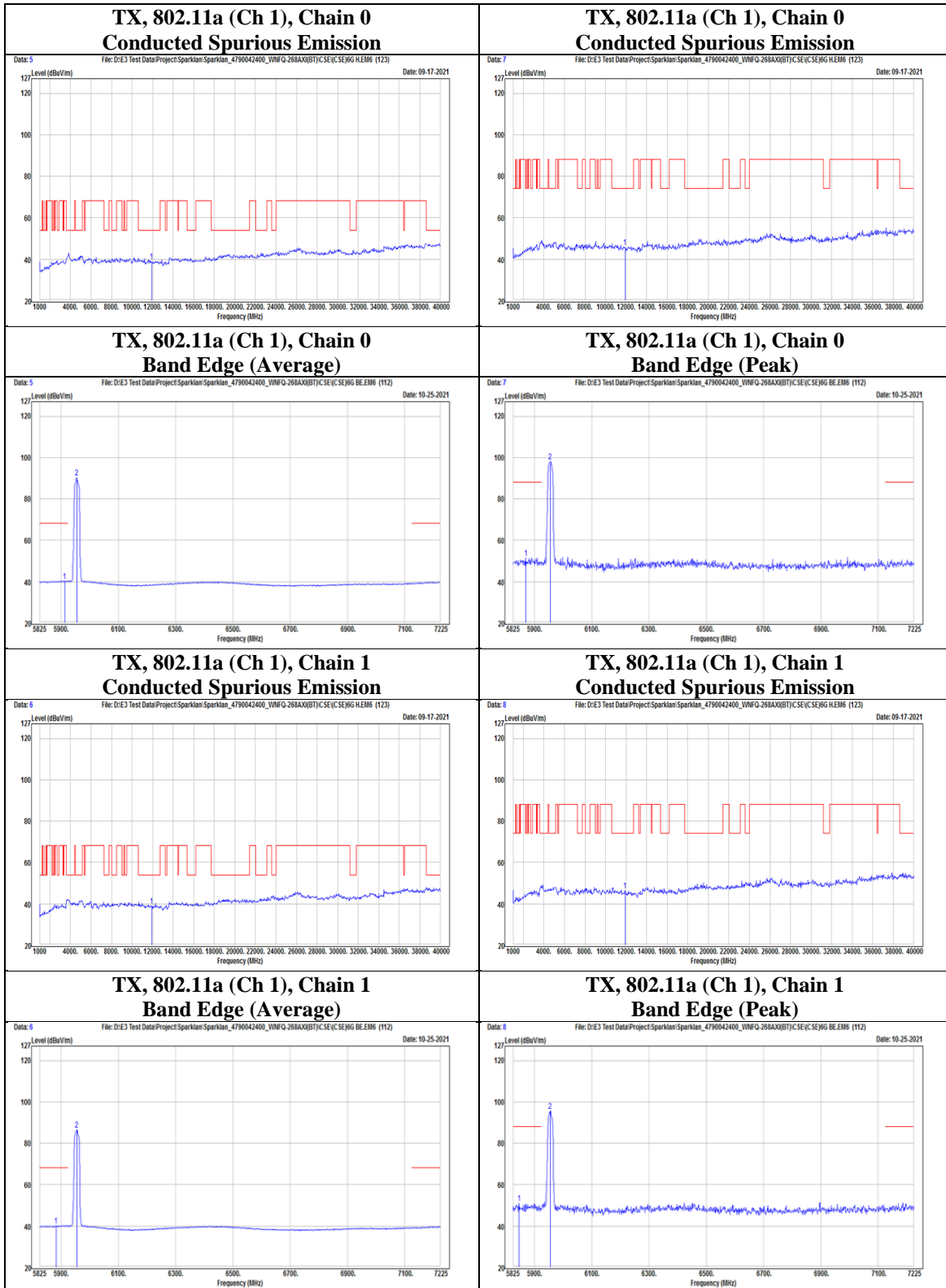
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Mode	802.11a	Channel	45
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5892.2	63.03	-11.74	51.29	88.2	-36.91	PK
		5914.6	52	-11.74	40.26	68.2	-27.94	AVG
	@	6175	111.21	-11.74	99.47	N/A	N/A	PK
	@	6175	103.16	-11.74	91.42	N/A	N/A	AVG
		12350	57.46	-11.74	45.72	74	-28.28	PK
		12350	50.99	-11.74	39.25	54	-14.75	AVG
Chain 1		5881	51.89	-11.74	40.15	68.2	-28.05	AVG
		5888	64.11	-11.74	52.37	88.2	-35.83	PK
	@	6175	109.94	-11.74	98.2	N/A	N/A	PK
	@	6175	101.13	-11.74	89.39	N/A	N/A	AVG
		12350	57.56	-11.74	45.82	74	-28.18	PK
		12350	51.01	-11.74	39.27	54	-14.73	AVG

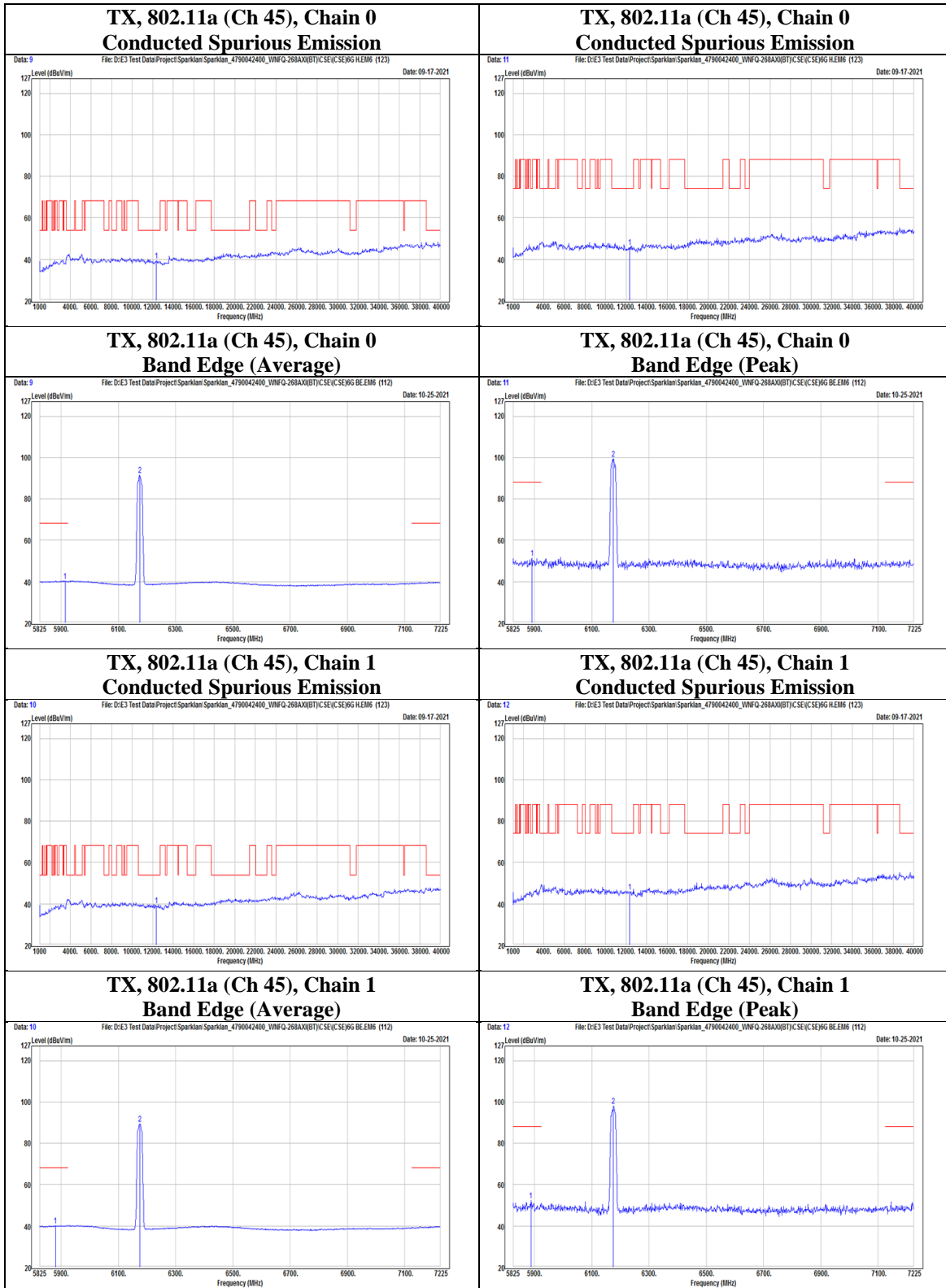
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Mode	802.11a	Channel	93
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5904.8	52.29	-11.74	40.55	68.2	-27.65	AVG
		5910.4	63.88	-11.74	52.14	88.2	-36.06	PK
	@	6415	115.47	-11.74	103.73	N/A	N/A	PK
	@	6415	105.2	-11.74	93.46	N/A	N/A	AVG
		7164.8	62.35	-11.74	50.61	88.2	-37.59	PK
		7219.4	51.44	-11.74	39.7	68.2	-28.5	AVG
		12830	57.42	-11.74	45.68	88.2	-42.52	PK
		12830	51.46	-11.74	39.72	68.2	-28.48	AVG
Chain 1		5895	62.88	-11.74	51.14	88.2	-37.06	PK
		5924.4	51.92	-11.74	40.18	68.2	-28.02	AVG
	@	6415	110.12	-11.74	98.38	N/A	N/A	PK
	@	6415	100.82	-11.74	89.08	N/A	N/A	AVG
		7187.2	62.38	-11.74	50.64	88.2	-37.56	PK
		7201.2	51.48	-11.74	39.74	68.2	-28.46	AVG
		12830	56.63	-11.74	44.89	88.2	-43.31	PK
		12830	50.55	-11.74	38.81	68.2	-29.39	AVG

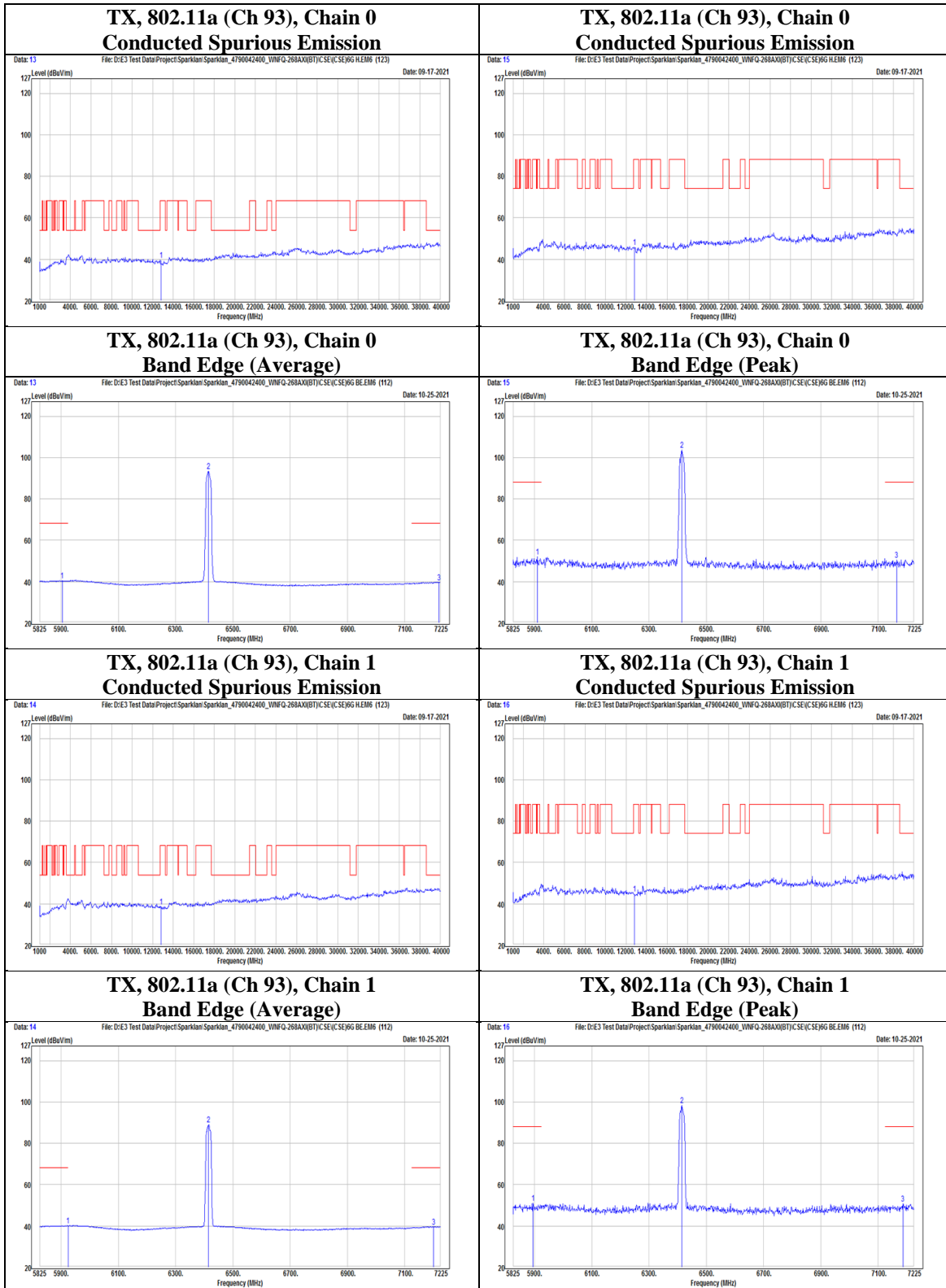
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Mode	802.11a	Channel	97
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5892.2	63.18	-11.74	51.44	88.2	-36.76	PK
		5918.8	52.29	-11.74	40.55	68.2	-27.65	AVG
	@	6435	114.38	-11.74	102.64	N/A	N/A	PK
	@	6435	105.04	-11.74	93.3	N/A	N/A	AVG
		7192.8	62.91	-11.74	51.17	88.2	-37.03	PK
		7202.6	51.41	-11.74	39.67	68.2	-28.53	AVG
		12870	57.27	-11.74	45.53	88.2	-42.67	PK
		12870	50.08	-11.74	38.34	68.2	-29.86	AVG
Chain 1		5885.2	62.69	-11.74	50.95	88.2	-37.25	PK
		5886.6	51.85	-11.74	40.11	68.2	-28.09	AVG
	@	6435	111.37	-11.74	99.63	N/A	N/A	PK
	@	6435	102.18	-11.74	90.44	N/A	N/A	AVG
		7211	51.51	-11.74	39.77	68.2	-28.43	AVG
		7215.2	62.68	-11.74	50.94	88.2	-37.26	PK
		12870	57.07	-11.74	45.33	88.2	-42.87	PK
		12870	50.62	-11.74	38.88	68.2	-29.32	AVG

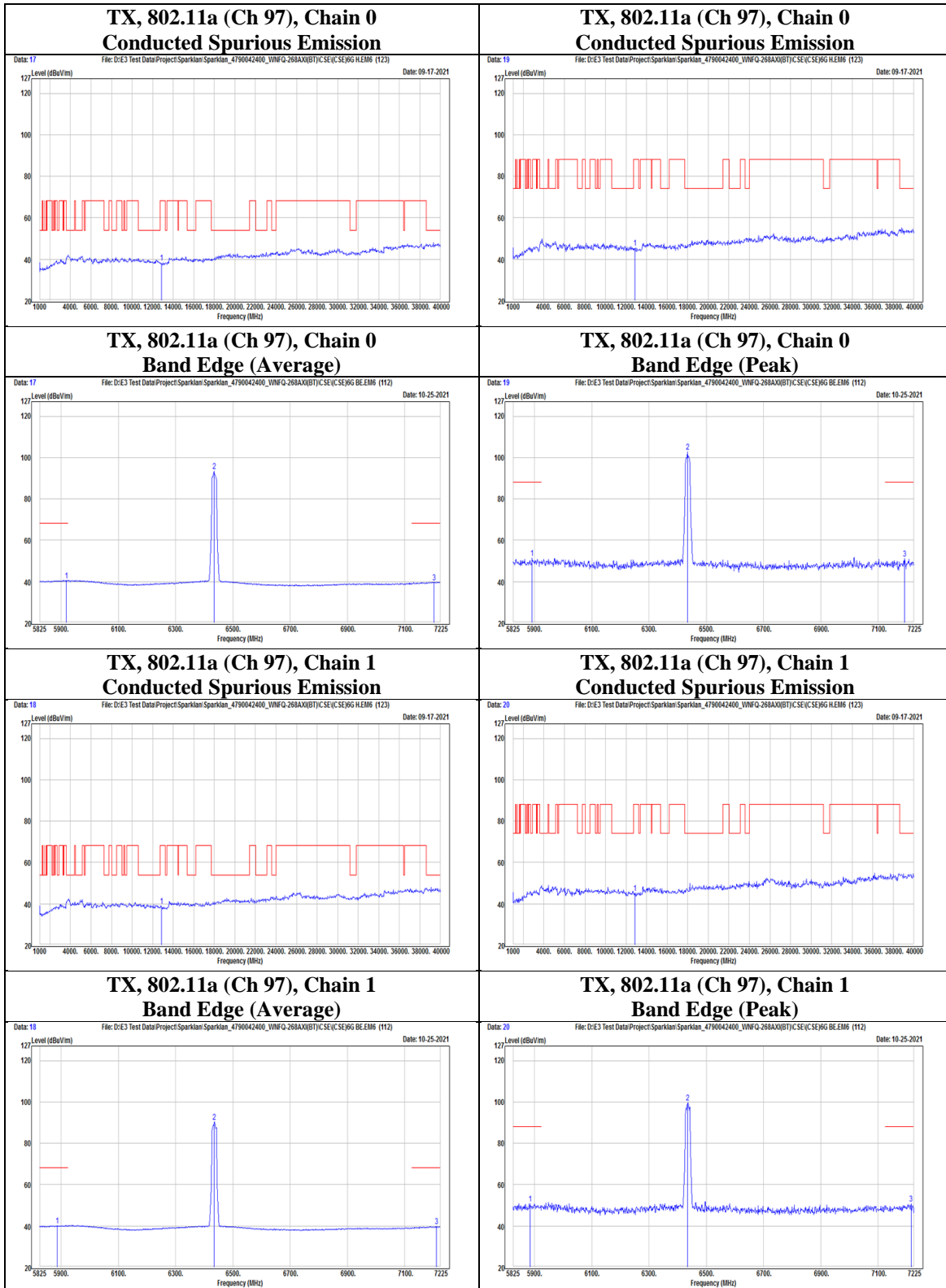
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Mode	802.11a	Channel	105
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5881	63.12	-11.74	51.38	88.2	-36.82	PK
		5903.4	52.2	-11.74	40.46	68.2	-27.74	AVG
	@	6475	113.8	-11.74	102.06	N/A	N/A	PK
	@	6475	105.47	-11.74	93.73	N/A	N/A	AVG
		7201.2	51.44	-11.74	39.7	68.2	-28.5	AVG
		7216.6	62.32	-11.74	50.58	88.2	-37.62	PK
		12950	57.06	-11.74	45.32	88.2	-42.88	PK
		12950	50.1	-11.74	38.36	68.2	-29.84	AVG
Chain 1		5895	62.84	-11.74	51.1	88.2	-37.1	PK
		5923	51.89	-11.74	40.15	68.2	-28.05	AVG
	@	6475	112.4	-11.74	100.66	N/A	N/A	PK
	@	6475	102.95	-11.74	91.21	N/A	N/A	AVG
		7129.8	62.16	-11.74	50.42	88.2	-37.78	PK
		7199.8	51.41	-11.74	39.67	68.2	-28.53	AVG
		12950	56.26	-11.74	44.52	88.2	-43.68	PK
		12950	50.32	-11.74	38.58	68.2	-29.62	AVG

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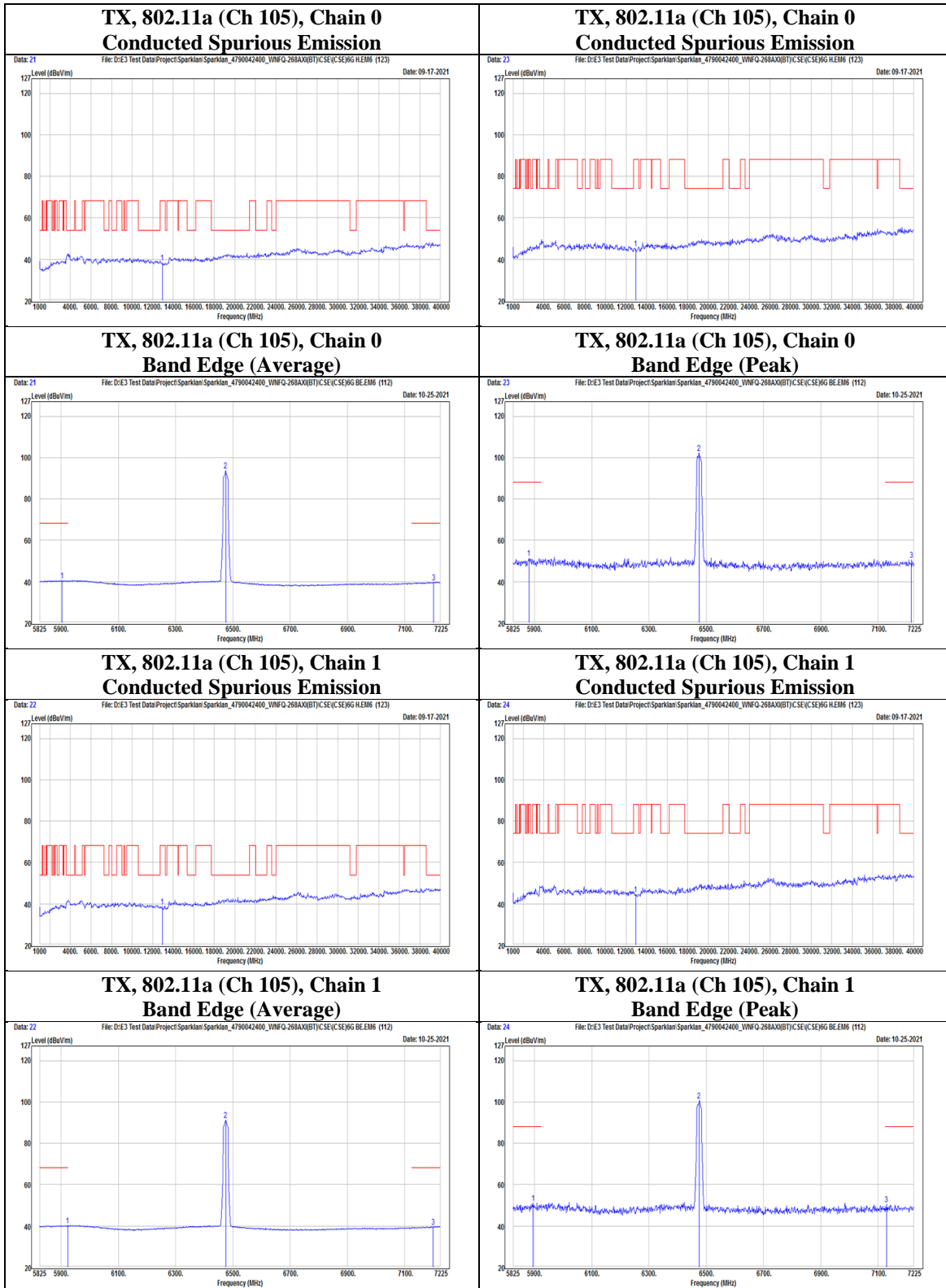
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Mode	802.11a	Channel	113
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5897.8	63.73	-11.74	51.99	88.2	-36.21	PK
		5917.4	52.36	-11.74	40.62	68.2	-27.58	AVG
	@	6515	113.41	-11.74	101.67	N/A	N/A	PK
	@	6515	105.34	-11.74	93.6	N/A	N/A	AVG
		7212.4	62.94	-11.74	51.2	88.2	-37	PK
		7215.2	51.53	-11.74	39.79	68.2	-28.41	AVG
		13030	56.42	-11.74	44.68	88.2	-43.52	PK
		13030	50.96	-11.74	39.22	68.2	-28.98	AVG
Chain 1		5881	63	-11.74	51.26	88.2	-36.94	PK
		5924.4	51.92	-11.74	40.18	68.2	-28.02	AVG
	@	6515	113.39	-11.74	101.65	N/A	N/A	PK
	@	6515	103.72	-11.74	91.98	N/A	N/A	AVG
		7197	62.34	-11.74	50.6	88.2	-37.6	PK
		7213.8	51.48	-11.74	39.74	68.2	-28.46	AVG
		13030	57.29	-11.74	45.55	88.2	-42.65	PK
		13030	49.98	-11.74	38.24	68.2	-29.96	AVG

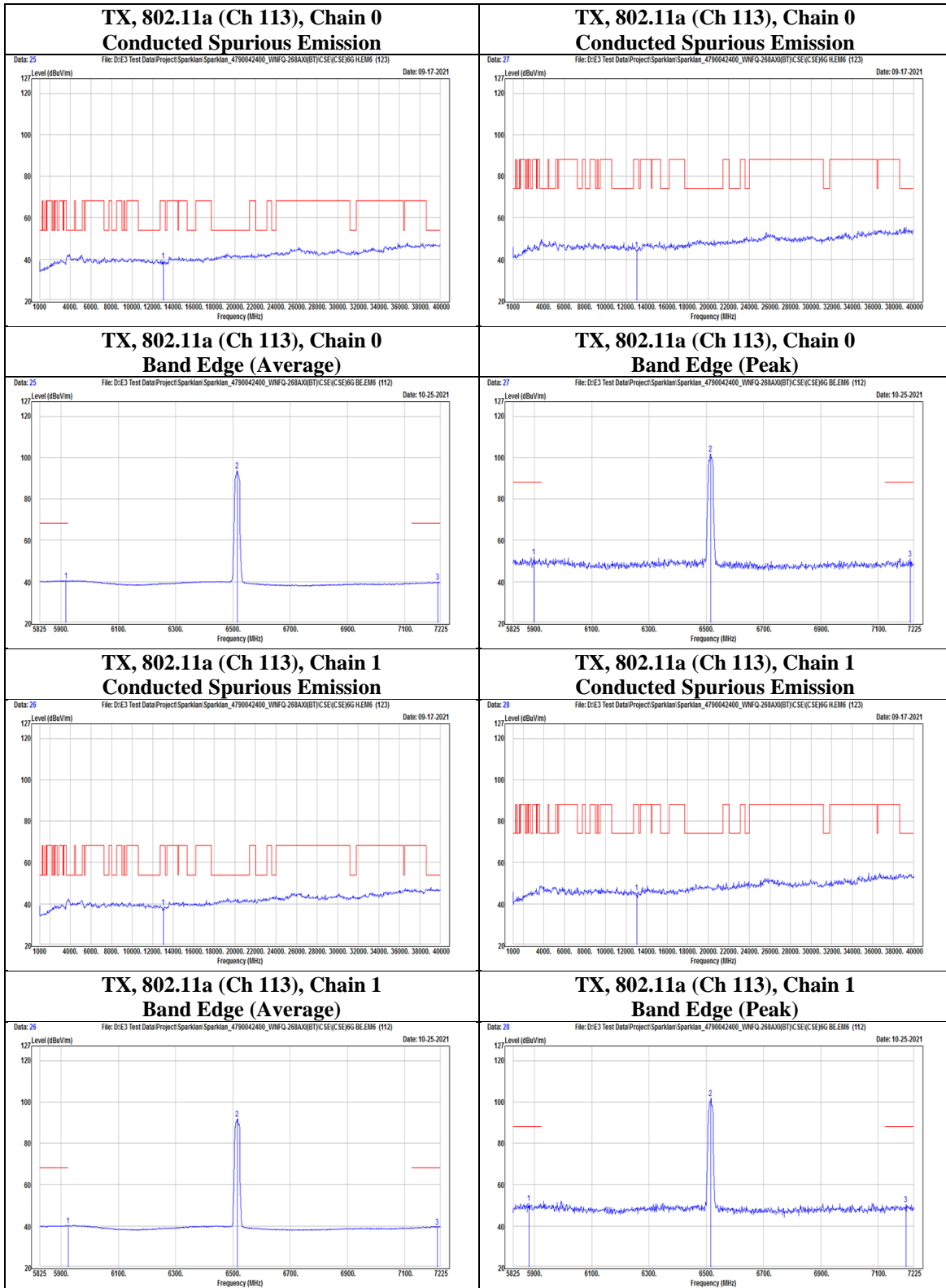
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Mode	802.11a	Channel	117
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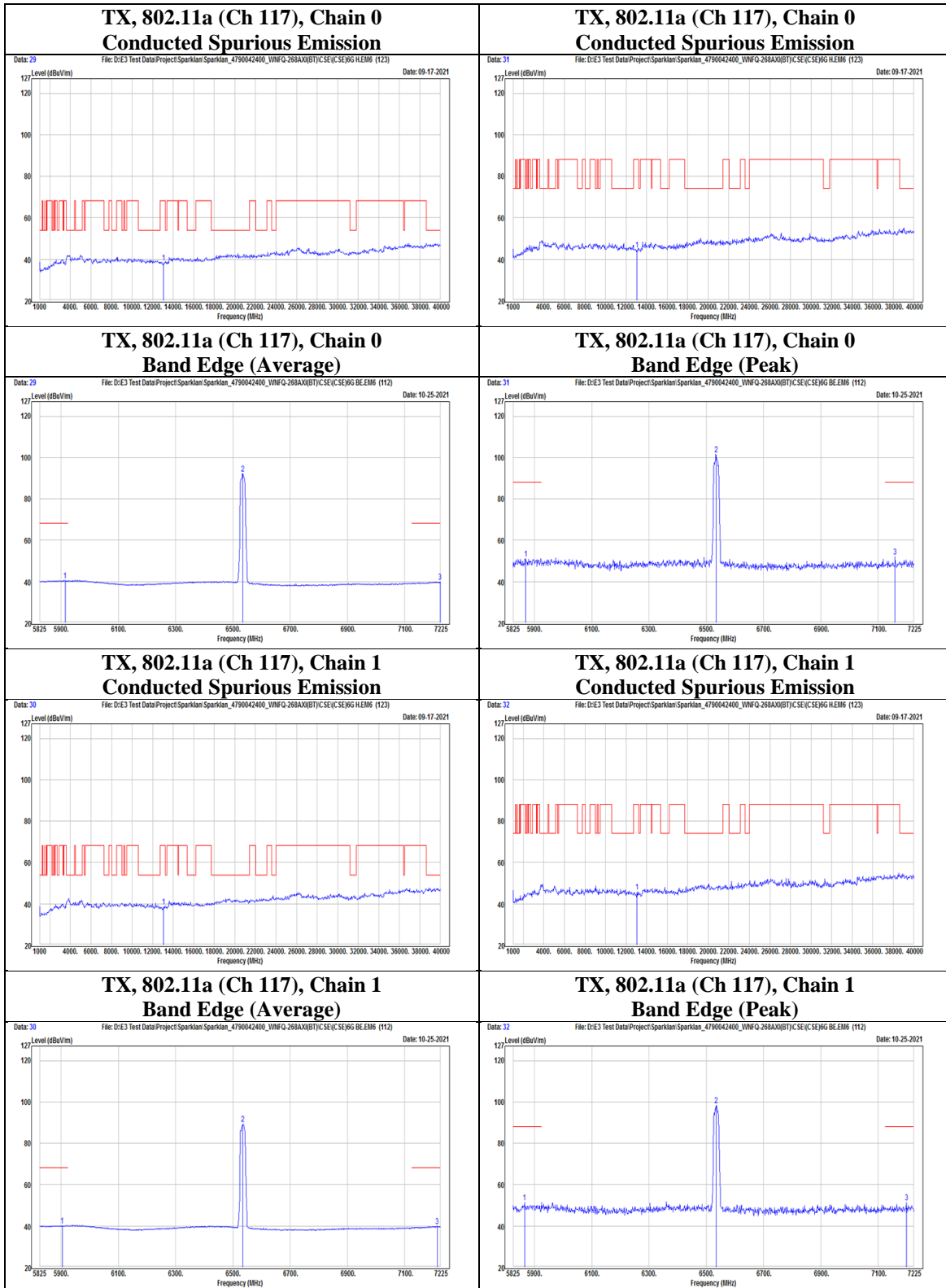
TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5869.8	62.79	-11.74	51.05	88.2	-37.15	PK
		5914.6	52.22	-11.74	40.48	68.2	-27.72	AVG
	@	6535	113.12	-11.74	101.38	N/A	N/A	PK
	@	6535	103.95	-11.74	92.21	N/A	N/A	AVG
		7159.2	63.66	-11.74	51.92	88.2	-36.28	PK
		7223.6	51.53	-11.74	39.79	68.2	-28.41	AVG
		13070	56.43	-11.74	44.69	88.2	-43.51	PK
		13070	49.97	-11.74	38.23	68.2	-29.97	AVG
Chain 1		5865.6	63.17	-11.74	51.43	88.2	-36.77	PK
		5904.8	51.93	-11.74	40.19	68.2	-28.01	AVG
	@	6535	110.25	-11.74	98.51	N/A	N/A	PK
	@	6535	101.23	-11.74	89.49	N/A	N/A	AVG
		7199.8	63.17	-11.74	51.43	88.2	-36.77	PK
		7213.8	51.59	-11.74	39.85	68.2	-28.35	AVG
		13070	57.63	-11.74	45.89	88.2	-42.31	PK
		13070	50.47	-11.74	38.73	68.2	-29.47	AVG

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Mode	802.11a	Channel	149
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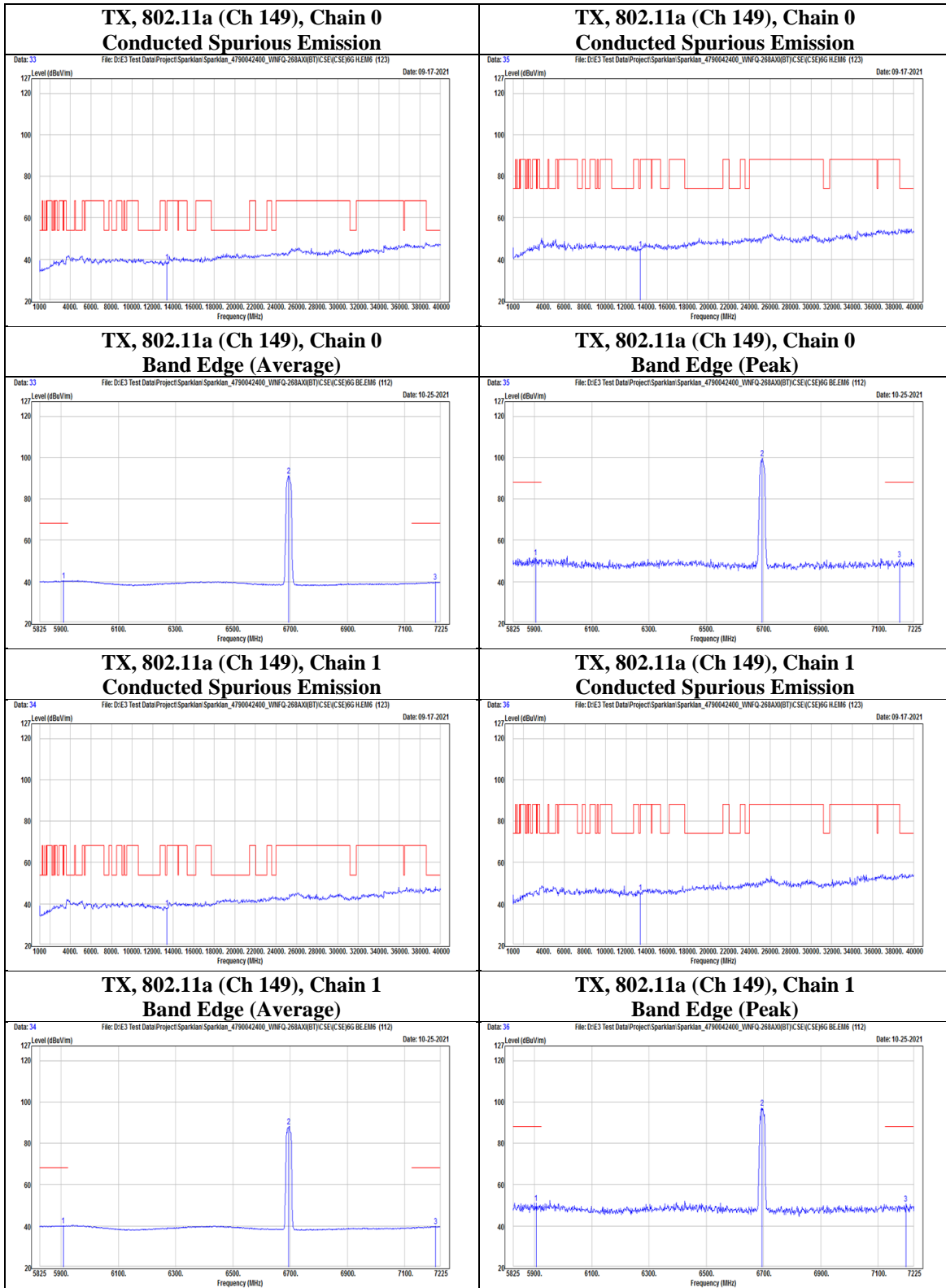
TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5904.8	63.5	-11.74	51.76	88.2	-36.44	PK
		5909	52.12	-11.74	40.38	68.2	-27.82	AVG
	@	6695	111.22	-11.74	99.48	N/A	N/A	PK
	@	6695	103.09	-11.74	91.35	N/A	N/A	AVG
		7174.6	62.54	-11.74	50.8	88.2	-37.4	PK
		7206.8	51.52	-11.74	39.78	68.2	-28.42	AVG
		13390	56.75	-11.74	45.01	74	-28.99	PK
		13390	50.35	-11.74	38.61	54	-15.39	AVG
Chain 1		5906.2	62.84	-11.74	51.1	88.2	-37.1	PK
		5907.6	51.91	-11.74	40.17	68.2	-28.03	AVG
	@	6695	108.94	-11.74	97.2	N/A	N/A	PK
	@	6695	100.01	-11.74	88.27	N/A	N/A	AVG
		7197	62.51	-11.74	50.77	88.2	-37.43	PK
		7208.2	51.58	-11.74	39.84	68.2	-28.36	AVG
		13390	57.16	-11.74	45.42	74	-28.58	PK
		13390	49.88	-11.74	38.14	54	-15.86	AVG

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Mode	802.11a	Channel	181
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5855.8	63.5	-11.74	51.76	88.2	-36.44	PK
		5916	52.37	-11.74	40.63	68.2	-27.57	AVG
	@	6855	111.02	-11.74	99.28	N/A	N/A	PK
	@	6855	102.72	-11.74	90.98	N/A	N/A	AVG
		7212.4	51.41	-11.74	39.67	68.2	-28.53	AVG
		7220.8	63.02	-11.74	51.28	88.2	-36.92	PK
		13710	59.03	-11.74	47.29	88.2	-40.91	PK
		13710	52.35	-11.74	40.61	68.2	-27.59	AVG
Chain 1		5903.4	62.83	-11.74	51.09	88.2	-37.11	PK
		5920.2	51.88	-11.74	40.14	68.2	-28.06	AVG
	@	6855	108.68	-11.74	96.94	N/A	N/A	PK
	@	6855	100.33	-11.74	88.59	N/A	N/A	AVG
		7185.8	63.15	-11.74	51.41	88.2	-36.79	PK
		7218	51.69	-11.74	39.95	68.2	-28.25	AVG
		13710	58.64	-11.74	46.9	88.2	-41.3	PK
		13710	52.4	-11.74	40.66	68.2	-27.54	AVG

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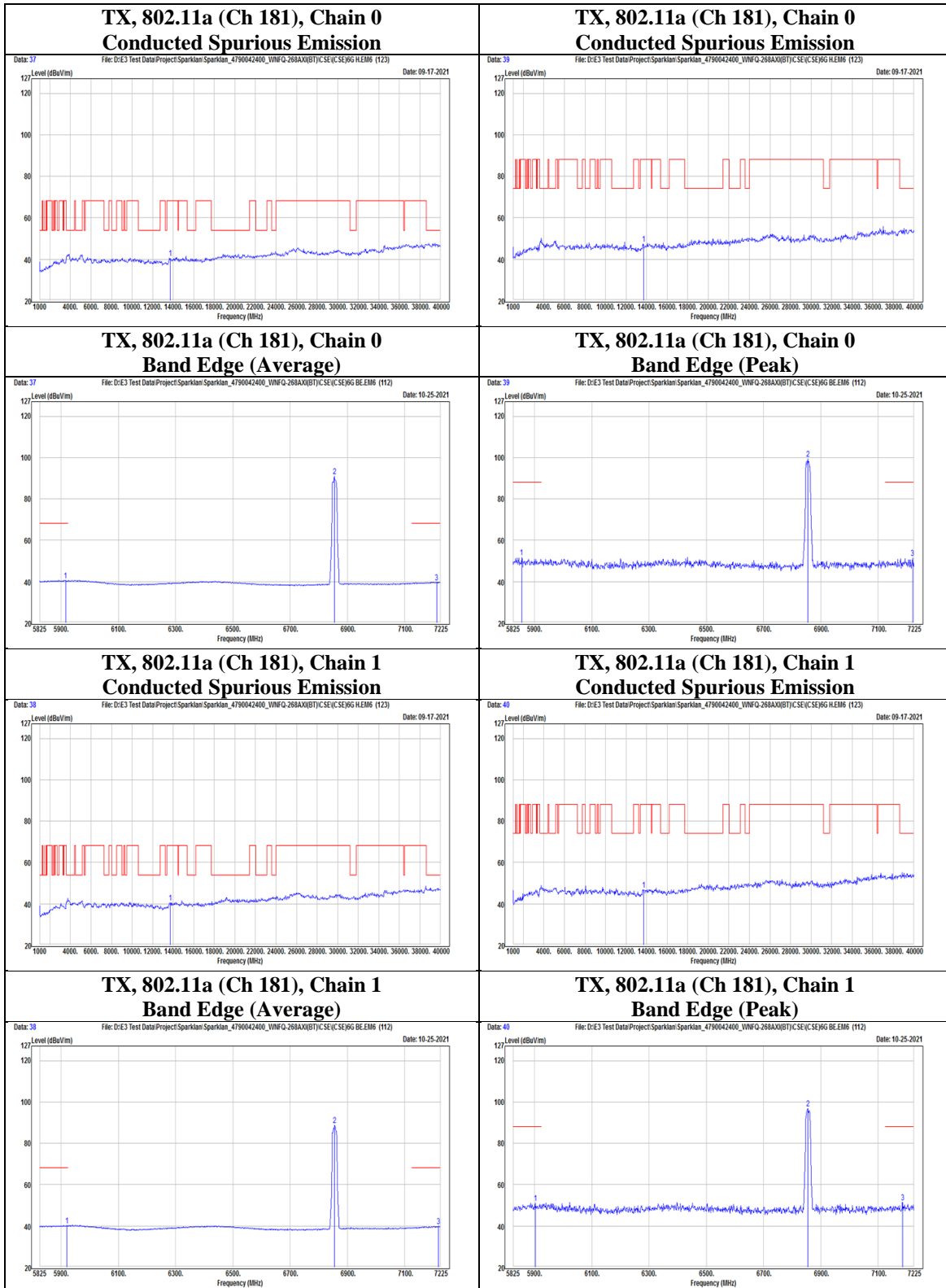
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Mode	802.11a	Channel	185
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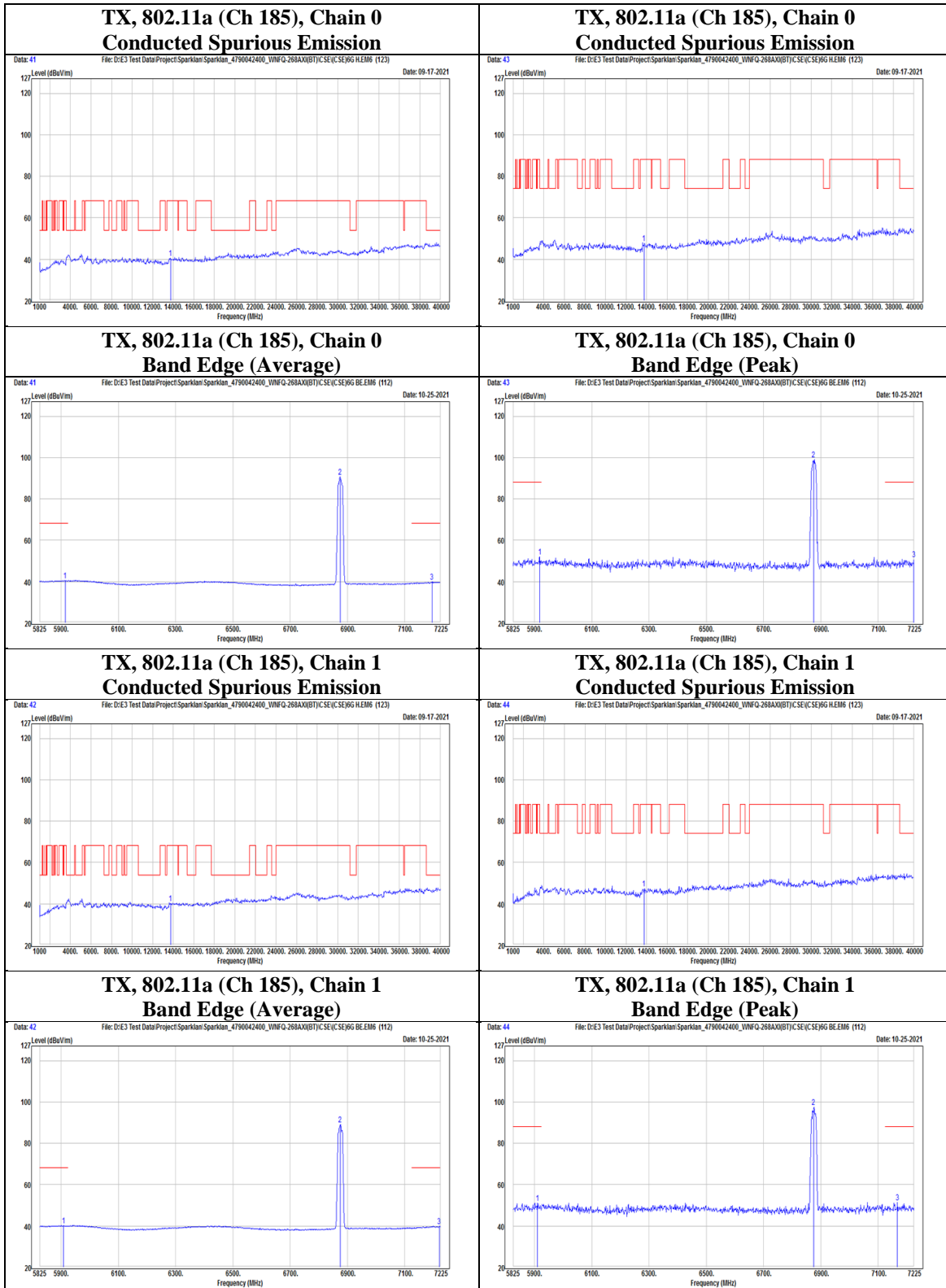
TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5914.6	52.16	-11.74	40.42	68.2	-27.78	AVG
		5918.8	63.72	-11.74	51.98	88.2	-36.22	PK
	@	6875	110.67	-11.74	98.93	N/A	N/A	PK
	@	6875	102.36	-11.74	90.62	N/A	N/A	AVG
		7195.6	51.52	-11.74	39.78	68.2	-28.42	AVG
		7225	62.52	-11.74	50.78	88.2	-37.42	PK
		13750	59.35	-11.74	47.61	88.2	-40.59	PK
		13750	52.27	-11.74	40.53	68.2	-27.67	AVG
Chain 1		5909	51.89	-11.74	40.15	68.2	-28.05	AVG
		5910.4	62.95	-11.74	51.21	88.2	-36.99	PK
	@	6875	109.29	-11.74	97.55	N/A	N/A	PK
	@	6875	100.77	-11.74	89.03	N/A	N/A	AVG
		7167.6	63.3	-11.74	51.56	88.2	-36.64	PK
		7220.8	51.55	-11.74	39.81	68.2	-28.39	AVG
		13750	59.04	-11.74	47.3	88.2	-40.9	PK
		13750	52.09	-11.74	40.35	68.2	-27.85	AVG

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Mode	802.11a	Channel	209
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0	@	6995	110.82	-11.74	99.08	N/A	N/A	PK
	@	6995	102.4	-11.74	90.66	N/A	N/A	AVG
		7132.6	62.58	-11.74	50.84	88.2	-37.36	PK
		7202.6	51.51	-11.74	39.77	68.2	-28.43	AVG
		13990	58.92	-11.74	47.18	88.2	-41.02	PK
		13990	52.23	-11.74	40.49	68.2	-27.71	AVG
Chain 1	@	6995	109.21	-11.74	97.47	N/A	N/A	PK
	@	6995	100.36	-11.74	88.62	N/A	N/A	AVG
		7187.2	62.47	-11.74	50.73	88.2	-37.47	PK
		7219.4	51.46	-11.74	39.72	68.2	-28.48	AVG
		13990	59.17	-11.74	47.43	88.2	-40.77	PK
		13990	52.1	-11.74	40.36	68.2	-27.84	AVG

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