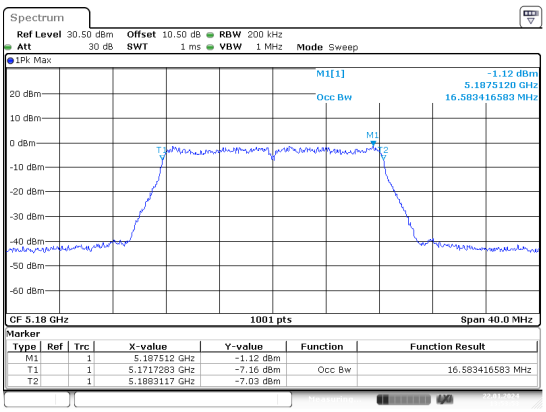
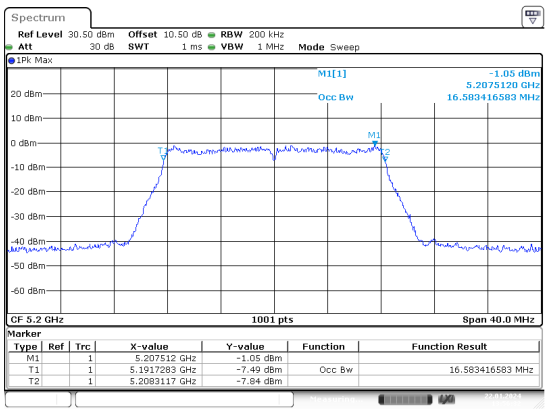
5150-5250MHz:

a_ 5180 MHz_Chain 0



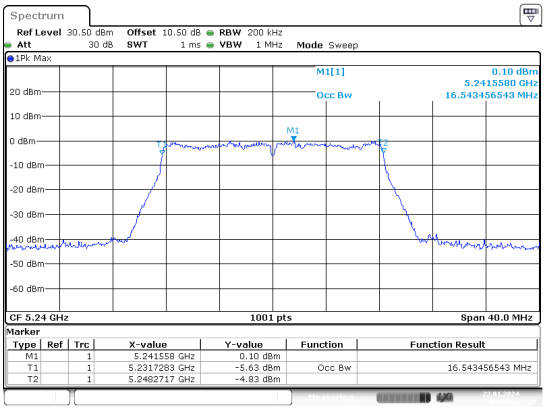
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 13:53:53

a_5200MHz_Chain 0



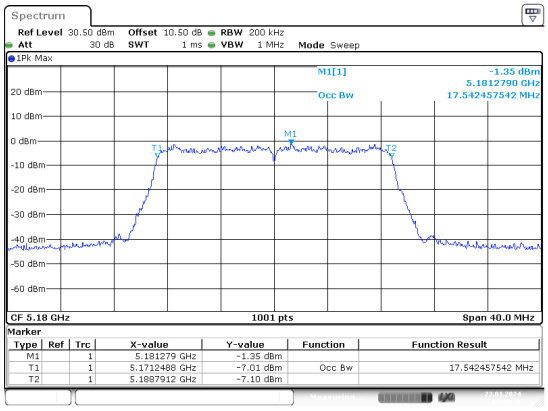
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 13:56:32

a_5240MHz_Chain 0



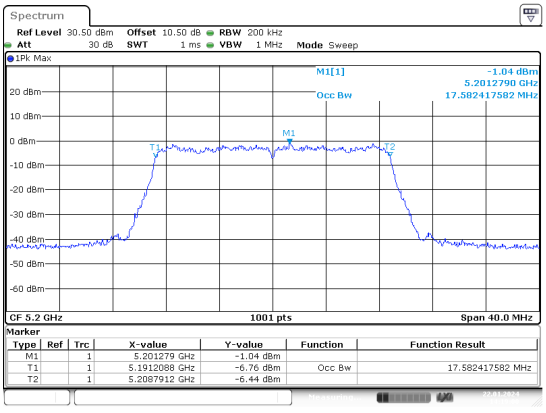
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 13:58:26

n20_5180MHz_Chain 0



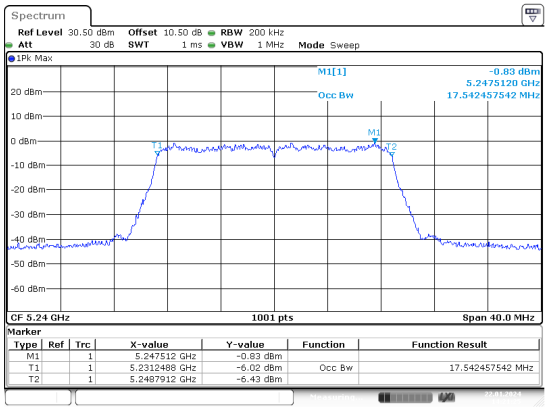
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 14:00:16

n20_5200MHz_Chain 0



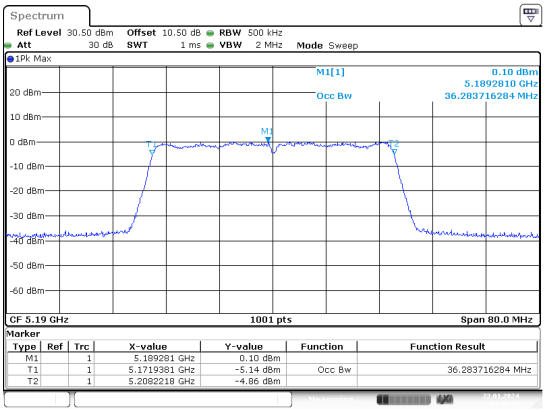
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 14:19:00

n20_5240MHz_Chain 0

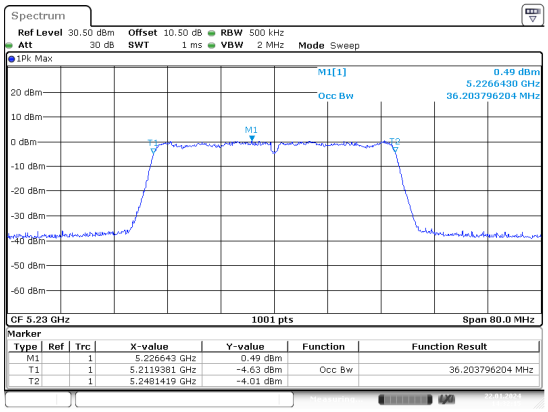


ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 14:21:25

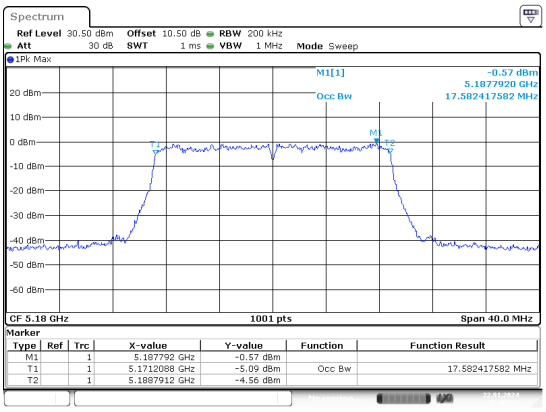
n40_5190MHz_Chain 0



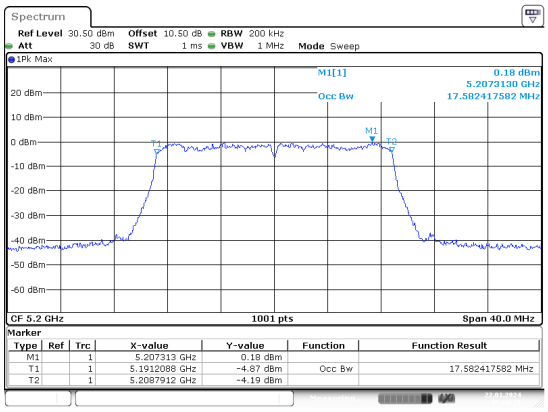
n40_5230MHz_Chain 0



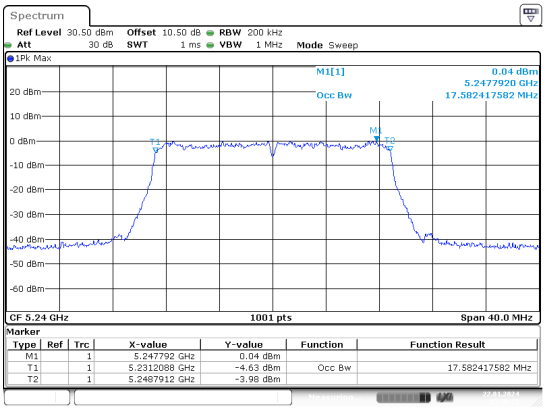
ac20_5180MHz_Chain 0



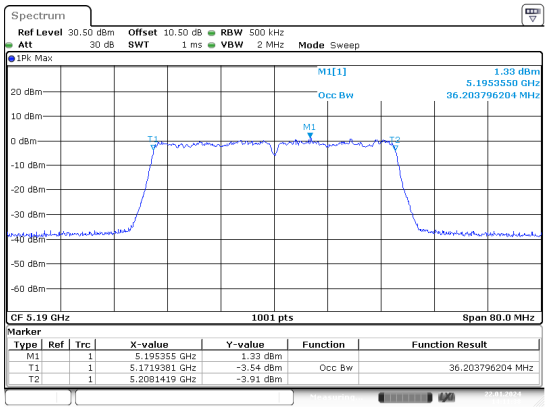
ac20_5200MHz_Chain 0



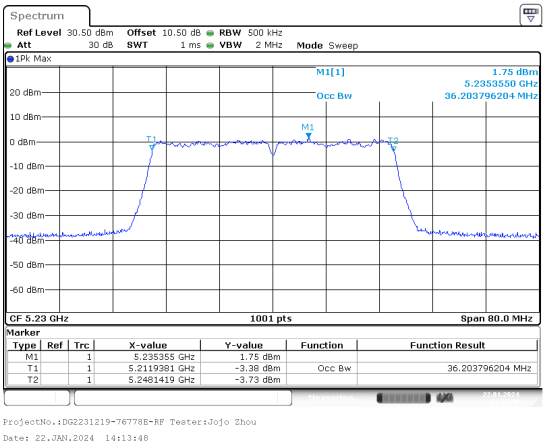
ac20_5240MHz_Chain 0



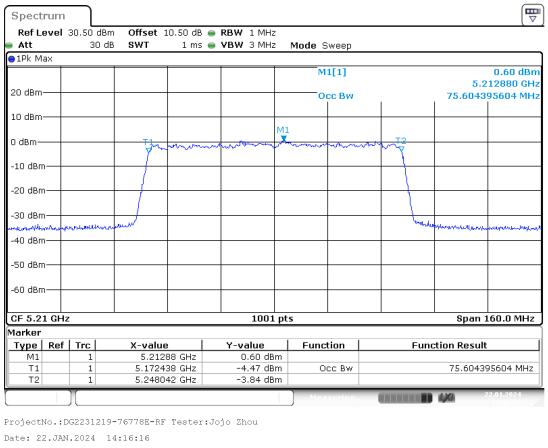
ac40_5190MHz_Chain 0



ac40_5230MHz_Chain 0

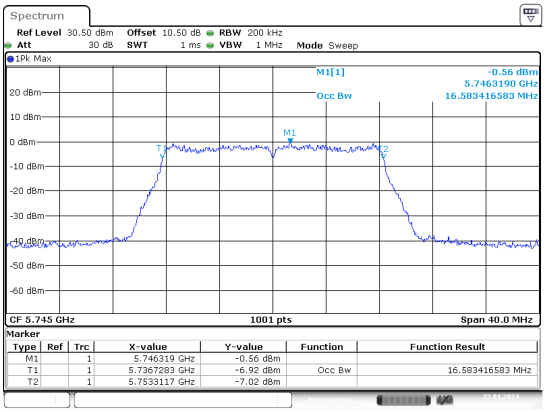


ac80_5210MHz_Chain 0



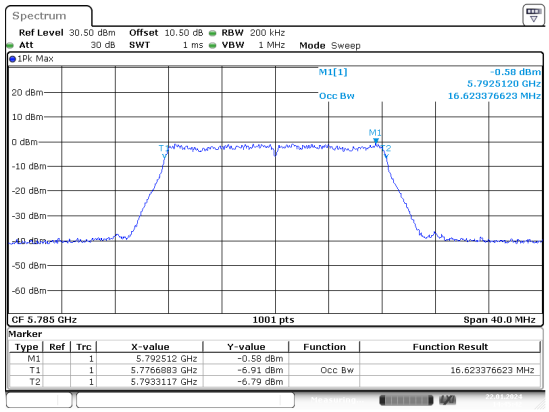
5.8G

a_ 5745 MHz_Chain 0



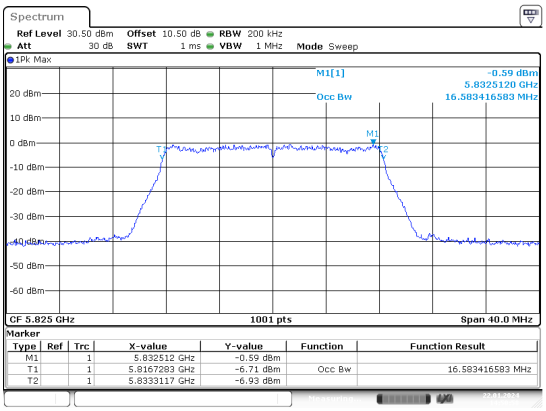
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:10:24

a_5785MHz_Chain 0



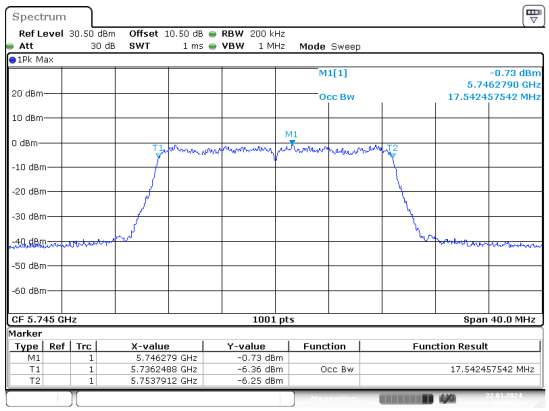
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 14:45:42

a_5825MHz_Chain 0



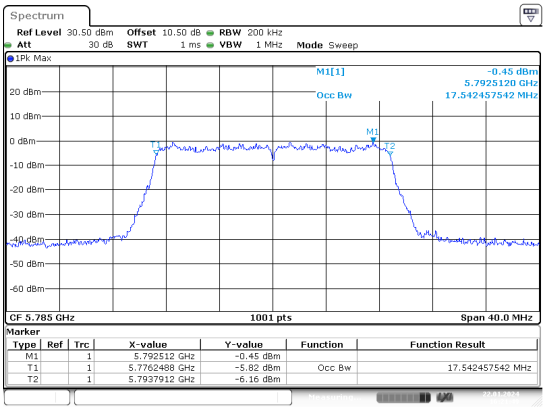
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 14:50:58

n20_5745MHz_Chain 0



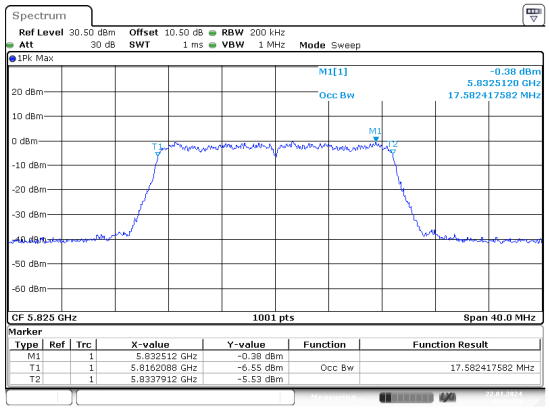
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:20:22

n20_5785MHz_Chain 0



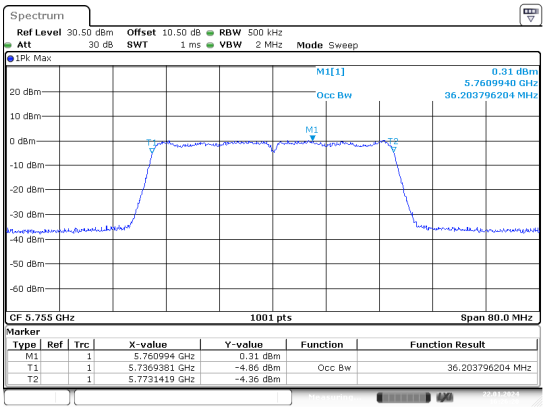
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:21:49

n20_5825MHz_Chain 0



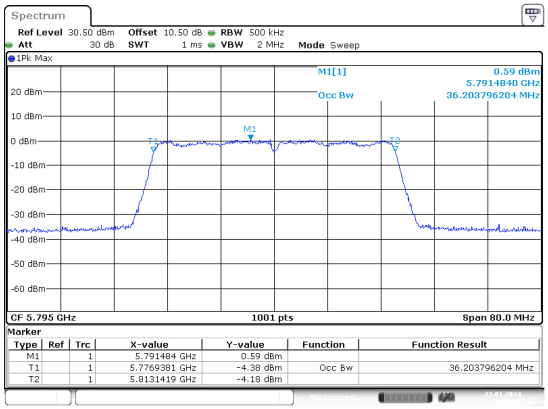
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:24:00

n40_5755MHz_Chain 0



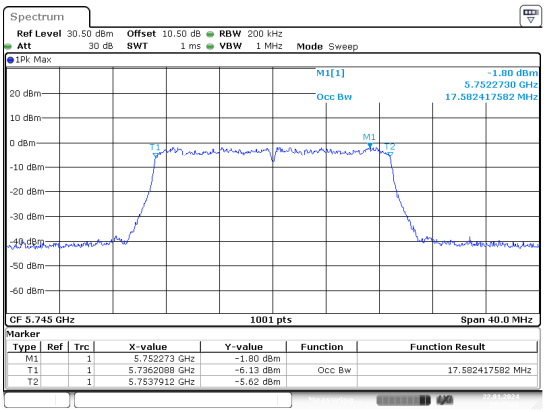
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:26:20

n40_5795MHz_Chain 0



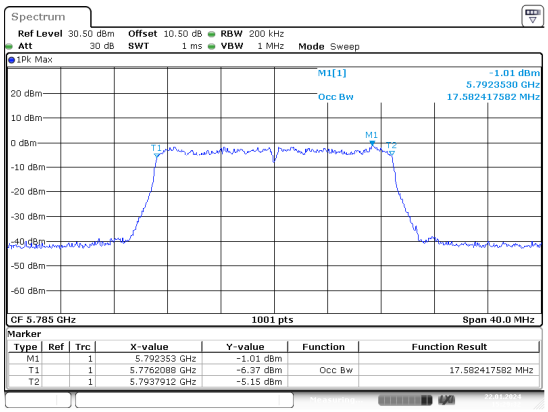
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:28:07

ac20_5745MHz_Chain 0



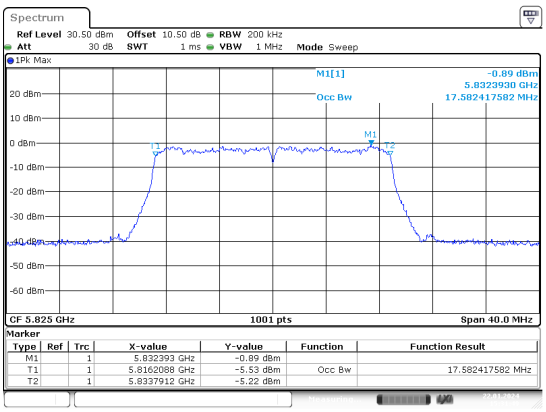
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 15:27:26

ac20_5785MHz_Chain 0



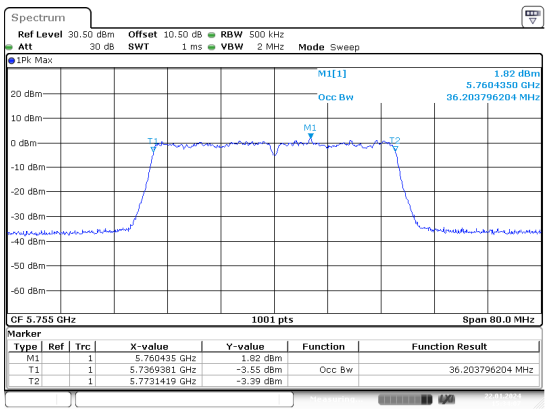
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 15:29:32

ac20_5825MHz_Chain 0



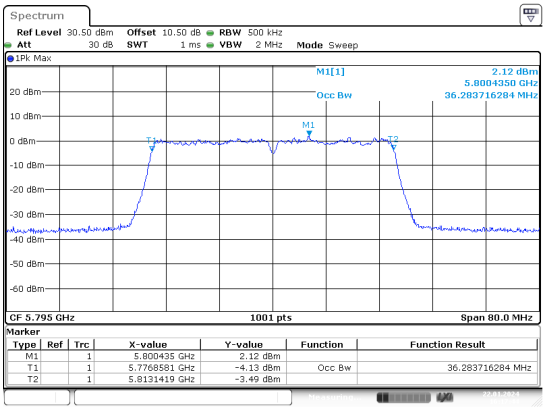
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 15:31:49

ac40_5755MHz_Chain 0

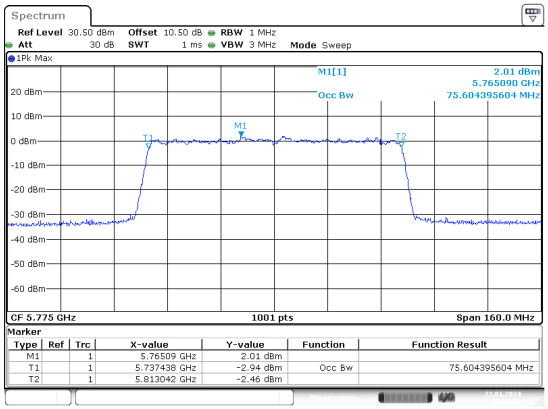


ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 15:34:07

ac40_5795MHz_Chain 0



ac80_5775MHz_Chain 0



5.5 Maximum Conducted Output Power

Serial No.:	2FJB-5	**Test Date:**	2024-01-22
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Jojo Zhou	**Test Result:**	Pass

Environmental Conditions:

Temperature: (℃)	24.3	**Relative Humidity: (%)**	39	**ATM Pressure: (kPa)**	101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2023-09-04	2024-09-03
E-Microwave	Blocking Control	EMDCB-00036	OE01201047	2023-05-06	2024-05-05
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	2023-09-01	2024-08-31

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

5150-5250 MHz:

Mode	Average Conducted Output Power (dBm)	Limit (dBm)	Result
a_5180MHz_Chain 0	5.69	19.92	Pass
a_5180MHz_Chain 1	6.18	19.92	Pass
a_5200MHz_Chain 0	5.97	19.92	Pass
a_5200MHz_Chain 1	6.10	19.92	Pass
a_5240MHz_Chain 0	6.03	19.92	Pass
a_5240MHz_Chain 1	5.85	19.92	Pass
n20_5180MHz_Chain 0	5.75	19.92	Pass
n20_5180MHz_Chain 1	6.05	19.92	Pass
n20_5180MHz_Chain 0+Chain 1	8.91	19.92	Pass
n20_5200MHz_Chain 0	5.96	19.92	Pass
n20_5200MHz_Chain 1	5.95	19.92	Pass
n20_5200MHz_Chain 0+Chain 1	8.96	19.92	Pass
n20_5240MHz_Chain 0	6.23	19.92	Pass
n20_5240MHz_Chain 1	5.68	19.92	Pass
n20_5240MHz_Chain 0+Chain 1	8.97	19.92	Pass
n40_5190MHz_Chain 0	5.57	19.92	Pass
n40_5190MHz_Chain 1	5.72	19.92	Pass
n40_5190MHz_Chain 0+Chain 1	8.66	19.92	Pass
n40_5230MHz_Chain 0	5.99	19.92	Pass
n40_5230MHz_Chain 1	5.59	19.92	Pass
n40_5230MHz_Chain 0+Chain 1	8.80	19.92	Pass
ac20_5180MHz_Chain 0	5.29	19.92	Pass
ac20_5180MHz_Chain 1	5.81	19.92	Pass
ac20_5180MHz_Chain 0+Chain 1	8.57	19.92	Pass
ac20_5200MHz_Chain 0	5.56	19.92	Pass
ac20_5200MHz_Chain 1	5.68	19.92	Pass
ac20_5200MHz_Chain 0+Chain 1	8.63	19.92	Pass
ac20_5240MHz_Chain 0	5.99	19.92	Pass
ac20_5240MHz_Chain 1	5.41	19.92	Pass
ac20_5240MHz_Chain 0+Chain 1	8.72	19.92	Pass
ac40_5190MHz_Chain 0	5.10	19.92	Pass
ac40_5190MHz_Chain 1	5.34	19.92	Pass
ac40_5190MHz_Chain 0+Chain 1	8.23	19.92	Pass
ac40_5230MHz_Chain 0	5.56	19.92	Pass
ac40_5230MHz_Chain 1	5.20	19.92	Pass
ac40_5230MHz_Chain 0+Chain 1	8.39	19.92	Pass
ac80_5210MHz_Chain 0	4.69	19.92	Pass
ac80_5210MHz_Chain 1	4.81	19.92	Pass
ac80_5210MHz_Chain 0+Chain 1	7.76	19.92	Pass

Note: The device is an outdoor AP.
Limit:30-(16.08-6)dBm=19.92dBm.
The maximum antenna gain at any elevation angle above 30 degrees as measured from the horizon is 8dBi, EIRP=8+8.97=16.97dBm<21dBm(0.125W), Please refer to the antenna report for the antenna gain detail.

5725-5850 MHz

Mode	Average Conducted Output Power (dBm)	Limit (dBm)	Result
a_5745MHz_Chain 0	7.47	20.75	Pass
a_5745MHz_Chain 1	8.02	20.75	Pass
a_5785MHz_Chain 0	7.59	20.75	Pass
a_5785MHz_Chain 1	8.10	20.75	Pass
a_5825MHz_Chain 0	7.58	20.75	Pass
a_5825MHz_Chain 1	7.74	20.75	Pass
n20_5745MHz_Chain 0	6.02	20.75	Pass
n20_5745MHz_Chain 1	6.61	20.75	Pass
n20_5745MHz_Chain 0+Chain 1	9.33	20.75	Pass
n20_5785MHz_Chain 0	6.10	20.75	Pass
n20_5785MHz_Chain 1	6.61	20.75	Pass
n20_5785MHz_Chain 0+Chain 1	9.37	20.75	Pass
n20_5825MHz_Chain 0	6.17	20.75	Pass
n20_5825MHz_Chain 1	6.31	20.75	Pass
n20_5825MHz_Chain 0+Chain 1	9.25	20.75	Pass
n40_5755MHz_Chain 0	5.76	20.75	Pass
n40_5755MHz_Chain 1	6.36	20.75	Pass
n40_5755MHz_Chain 0+Chain 1	9.08	20.75	Pass
n40_5795MHz_Chain 0	5.97	20.75	Pass
n40_5795MHz_Chain 1	6.33	20.75	Pass
n40_5795MHz_Chain 0+Chain 1	9.16	20.75	Pass
ac20_5745MHz_Chain 0	5.70	20.75	Pass
ac20_5745MHz_Chain 1	6.49	20.75	Pass
ac20_5745MHz_Chain 0+Chain 1	9.12	20.75	Pass
ac20_5785MHz_Chain 0	5.93	20.75	Pass
ac20_5785MHz_Chain 1	6.51	20.75	Pass
ac20_5785MHz_Chain 0+Chain 1	9.24	20.75	Pass
ac20_5825MHz_Chain 0	5.99	20.75	Pass
ac20_5825MHz_Chain 1	6.19	20.75	Pass
ac20_5825MHz_Chain 0+Chain 1	9.10	20.75	Pass
ac40_5755MHz_Chain 0	5.28	20.75	Pass
ac40_5755MHz_Chain 1	5.89	20.75	Pass
ac40_5755MHz_Chain 0+Chain 1	8.61	20.75	Pass
ac40_5795MHz_Chain 0	5.50	20.75	Pass
ac40_5795MHz_Chain 1	5.94	20.75	Pass
ac40_5795MHz_Chain 0+Chain 1	8.74	20.75	Pass
ac80_5775MHz_Chain 0	7.74	20.75	Pass
ac80_5775MHz_Chain 1	8.11	20.75	Pass
ac80_5775MHz_Chain 0+Chain 1	10.94	20.75	Pass
Note: Limit:30-(15.25-6)dBm=20.75dBm.			

5.6Maximum power spectral density

Serial No.:	2FJB-5	**Test Date:**	2024-01-22~2024-01-23
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Jojo Zhou	**Test Result:**	Pass

Environmental Conditions:

Temperature: (℃)	23.1~24.3	**Relative Humidity: (%)**	36~39	**ATM Pressure: (kPa)**	101.5~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2023-10-18	2024-10-17
E-Microwave	Blocking Control	EMDCB-00036	OE01201047	2023-05-06	2024-05-05
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	2023-09-01	2024-08-31

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

5150-5250 MHz

Mode	Value (dBm/MHz)	Duty Cycle Factor (dB)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
a_5180MHz_Chain 0	-1.87	0	-1.87	6.92	Pass
a_5180MHz_Chain 1	-3.56	0	-3.56	6.92	Pass
a_5200MHz_Chain 0	-1.56	0	-1.56	6.92	Pass
a_5200MHz_Chain 1	-3.72	0	-3.72	6.92	Pass
a_5240MHz_Chain 0	-1.42	0	-1.42	6.92	Pass
a_5240MHz_Chain 1	-3.80	0	-3.80	6.92	Pass
n20_5180MHz_Chain 0	-3.38	0	-3.38	6.92	Pass
n20_5180MHz_Chain 1	-3.62	0	-3.62	6.92	Pass
n20_5180MHz_Chain 0+Chain 1	0.16	0	0.16	3.92	Pass
n20_5200MHz_Chain 0	-1.78	0	-1.78	6.92	Pass
n20_5200MHz_Chain 1	-4.34	0	-4.34	6.92	Pass
n20_5200MHz_Chain 0+Chain 1	0.14	0	0.14	3.92	Pass
n20_5240MHz_Chain 0	-1.79	0	-1.79	6.92	Pass
n20_5240MHz_Chain 1	-4.16	0	-4.16	6.92	Pass
n20_5240MHz_Chain 0+Chain 1	0.20	0	0.20	3.92	Pass
n40_5190MHz_Chain 0	-5.24	0.13	-5.11	6.92	Pass
n40_5190MHz_Chain 1	-6.81	0.13	-6.68	6.92	Pass
n40_5190MHz_Chain 0+Chain 1	-2.94	0.13	-2.81	3.92	Pass
n40_5230MHz_Chain 0	-5.89	0.13	-5.76	6.92	Pass
n40_5230MHz_Chain 1	-7.02	0.13	-6.89	6.92	Pass
n40_5230MHz_Chain 0+Chain 1	-3.41	0.13	-3.28	3.92	Pass
ac20_5180MHz_Chain 0	-3.71	0.45	-3.26	6.92	Pass
ac20_5180MHz_Chain 1	-4.22	0.45	-3.77	6.92	Pass
ac20_5180MHz_Chain 0+Chain 1	-0.95	0.45	-0.5	3.92	Pass
ac20_5200MHz_Chain 0	-3.31	0.45	-2.86	6.92	Pass
ac20_5200MHz_Chain 1	-3.86	0.45	-3.41	6.92	Pass
ac20_5200MHz_Chain 0+Chain 1	-0.57	0.45	-0.12	3.92	Pass
ac20_5240MHz_Chain 0	-2.97	0.45	-2.52	6.92	Pass
ac20_5240MHz_Chain 1	-4.67	0.45	-4.22	6.92	Pass
ac20_5240MHz_Chain 0+Chain 1	-0.73	0.45	-0.28	3.92	Pass
ac40_5190MHz_Chain 0	-6.56	0.67	-5.89	6.92	Pass
ac40_5190MHz_Chain 1	-7.22	0.67	-6.55	6.92	Pass
ac40_5190MHz_Chain 0+Chain 1	-3.87	0.67	-3.2	3.92	Pass
ac40_5230MHz_Chain 0	-6.06	0.67	-5.39	6.92	Pass
ac40_5230MHz_Chain 1	-7.45	0.67	-6.78	6.92	Pass
ac40_5230MHz_Chain 0+Chain 1	-3.69	0.67	-3.02	3.92	Pass
ac80_5210MHz_Chain 0	-9.65	0.69	-8.96	6.92	Pass
ac80_5210MHz_Chain 1	-10.34	0.69	-9.65	6.92	Pass
ac80_5210MHz_Chain 0+Chain 1	-6.97	0.69	-6.28	3.92	Pass

Note: The device is an outdoor AP.
Limits:
For SISO mode:17-(16.08-6) dBm/MHz=6.92 dBm/MHz
For MIMO mode: 17-(16.08+3-6) dBm/MHz=3.92 dBm/MHz

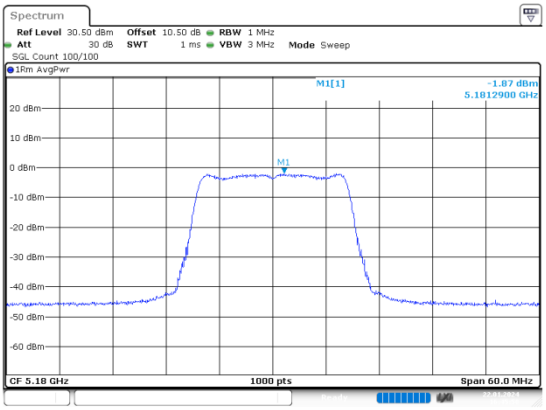
5.8G

Mode	Value (dBm/500kHz)	Duty Cycle Factor (dB)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
a_5745MHz_Chain 0	-5.85	0	-5.85	20.75	Pass
a_5745MHz_Chain 1	-4.17	0	-4.17	20.75	Pass
a_5785MHz_Chain 0	-5.53	0	-5.53	20.75	Pass
a_5785MHz_Chain 1	-4.72	0	-4.72	20.75	Pass
a_5825MHz_Chain 0	-5.77	0	-5.77	20.75	Pass
a_5825MHz_Chain 1	-4.87	0	-4.87	20.75	Pass
n20_5745MHz_Chain 0	-6.31	0	-6.31	20.75	Pass
n20_5745MHz_Chain 1	-5.02	0	-5.02	20.75	Pass
n20_5745MHz_Chain 0+Chain 1	-2.61	0	-2.61	17.75	Pass
n20_5785MHz_Chain 0	-5.91	0	-5.91	20.75	Pass
n20_5785MHz_Chain 1	-4.44	0	-4.44	20.75	Pass
n20_5785MHz_Chain 0+Chain 1	-2.10	0	-2.1	17.75	Pass
n20_5825MHz_Chain 0	-5.95	0	-5.95	20.75	Pass
n20_5825MHz_Chain 1	-4.69	0	-4.69	20.75	Pass
n20_5825MHz_Chain 0+Chain 1	-2.26	0	-2.26	17.75	Pass
n40_5755MHz_Chain 0	-9.09	0.13	-8.96	20.75	Pass
n40_5755MHz_Chain 1	-7.75	0.13	-7.62	20.75	Pass
n40_5755MHz_Chain 0+Chain 1	-5.36	0.13	-5.23	17.75	Pass
n40_5795MHz_Chain 0	-8.74	0.13	-8.61	20.75	Pass
n40_5795MHz_Chain 1	-7.84	0.13	-7.71	20.75	Pass
n40_5795MHz_Chain 0+Chain 1	-5.26	0.13	-5.13	17.75	Pass
ac20_5745MHz_Chain 0	-6.97	0.45	-6.52	20.75	Pass
ac20_5745MHz_Chain 1	-5.65	0.45	-5.2	20.75	Pass
ac20_5745MHz_Chain 0+Chain 1	-3.25	0.45	-2.8	17.75	Pass
ac20_5785MHz_Chain 0	-7.07	0.45	-6.62	20.75	Pass
ac20_5785MHz_Chain 1	-5.94	0.45	-5.49	20.75	Pass
ac20_5785MHz_Chain 0+Chain 1	-3.46	0.45	-3.01	17.75	Pass
ac20_5825MHz_Chain 0	-6.82	0.45	-6.37	20.75	Pass
ac20_5825MHz_Chain 1	-6.01	0.45	-5.56	20.75	Pass
ac20_5825MHz_Chain 0+Chain 1	-3.39	0.45	-2.94	17.75	Pass
ac40_5755MHz_Chain 0	-8.92	0.67	-8.25	20.75	Pass
ac40_5755MHz_Chain 1	-7.69	0.67	-7.02	20.75	Pass
ac40_5755MHz_Chain 0+Chain 1	-5.25	0.67	-4.58	17.75	Pass
ac40_5795MHz_Chain 0	-8.96	0.67	-8.29	20.75	Pass
ac40_5795MHz_Chain 1	-7.55	0.67	-6.88	20.75	Pass
ac40_5795MHz_Chain 0+Chain 1	-5.19	0.67	-4.52	17.75	Pass
ac80_5775MHz_Chain 0	-10.82	0.69	-10.13	20.75	Pass
ac80_5775MHz_Chain 1	-9.43	0.69	-8.74	20.75	Pass
ac80_5775MHz_Chain 0+Chain 1	-7.06	0.69	-6.37	17.75	Pass

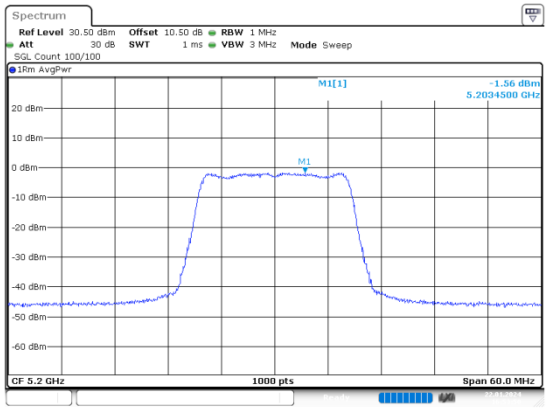
Note: Limits:
For SISO mode:30-(15.25-6) dBm/500kHz =17.75 dBm/500kHz
For MIMO mode: 30-(15.25+3-6) dBm/500kHz =20.75 dBm/500kHz

5.2G

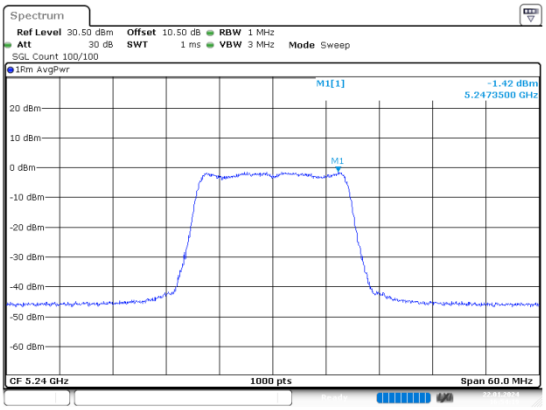
a_ 5180 MHz_Chain 0



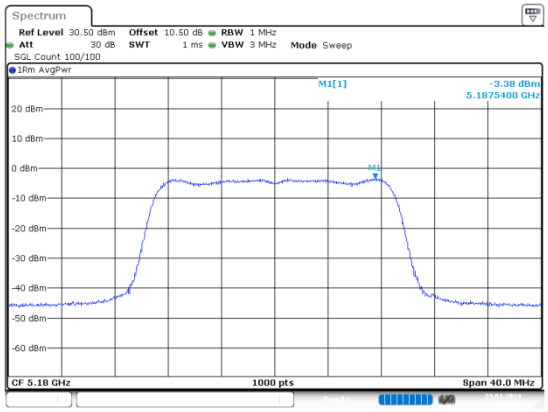
a_5200MHz_Chain 0



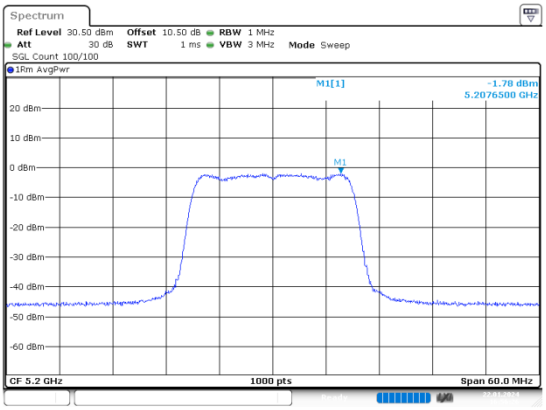
a_5240MHz_Chain 0



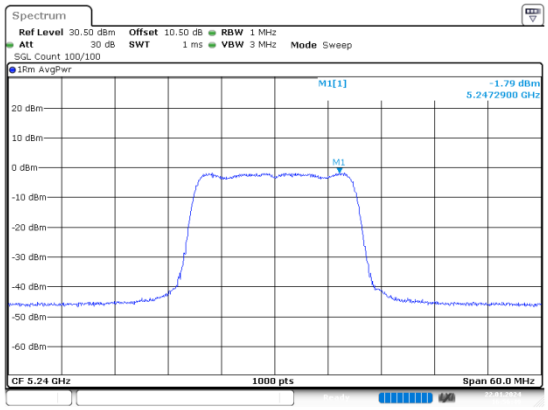
n20_5180MHz_Chain 0



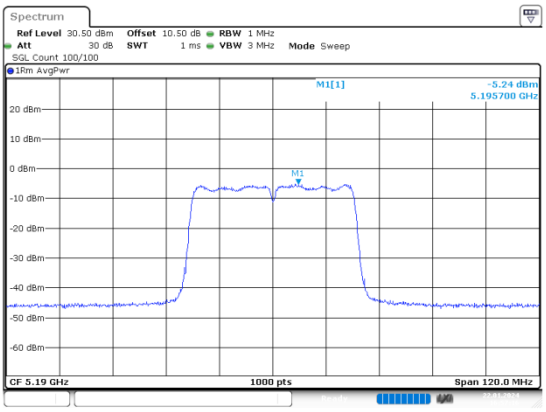
n20_5200MHz_Chain 0



n20_5240MHz_Chain 0

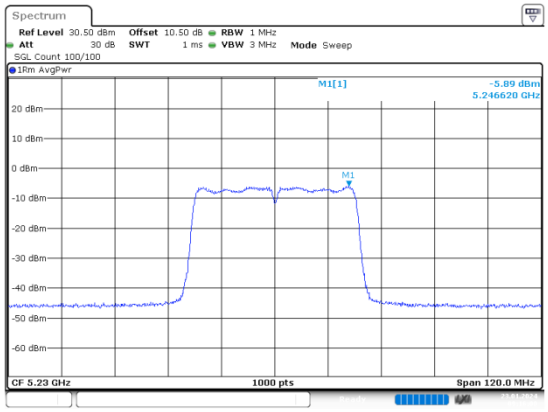


n40_5190MHz_Chain 0



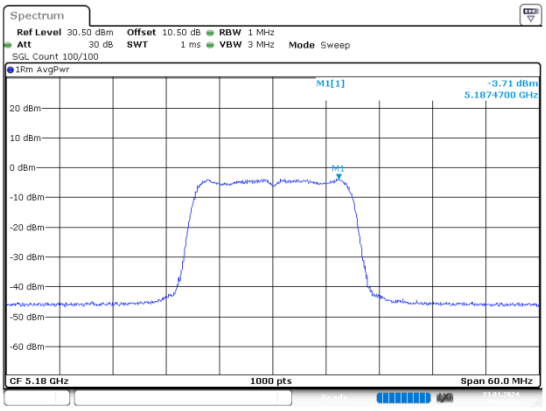
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:57:17

n40_5230MHz_Chain 0



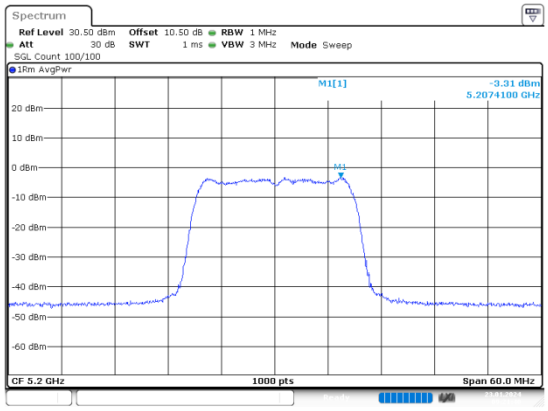
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:16:00

ac20_5180MHz_Chain 0



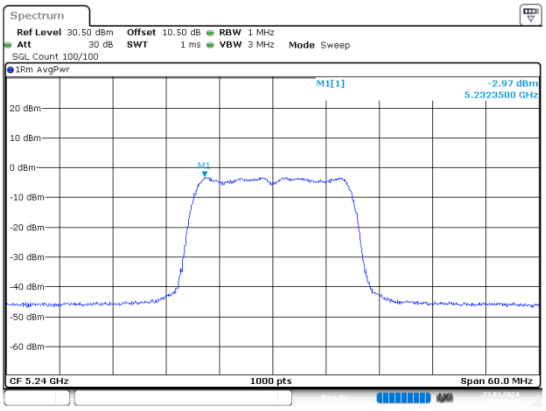
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:21:10

ac20_5200MHz_Chain 0



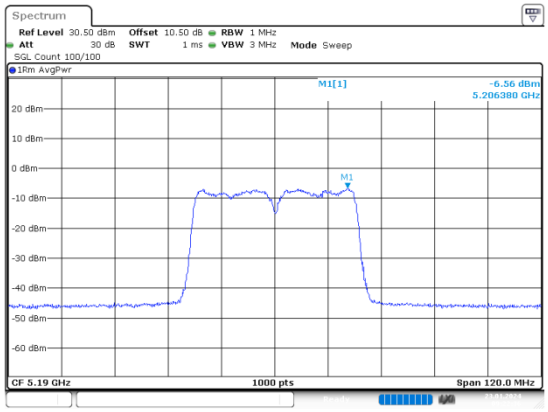
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:21:40

ac20_5240MHz_Chain 0



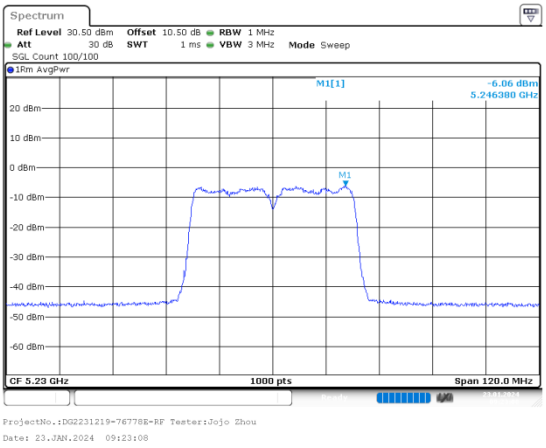
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:22:06

ac40_5190MHz_Chain 0

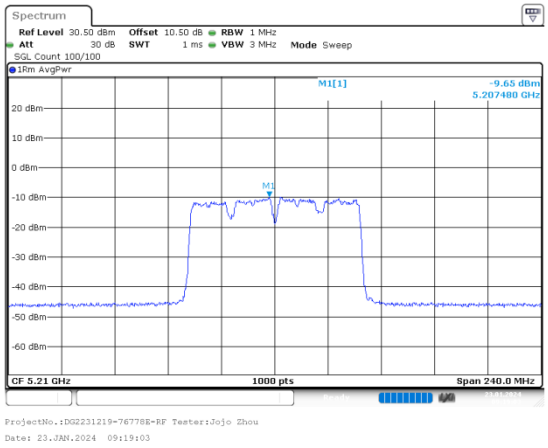


ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:22:36

ac40_5230MHz_Chain 0

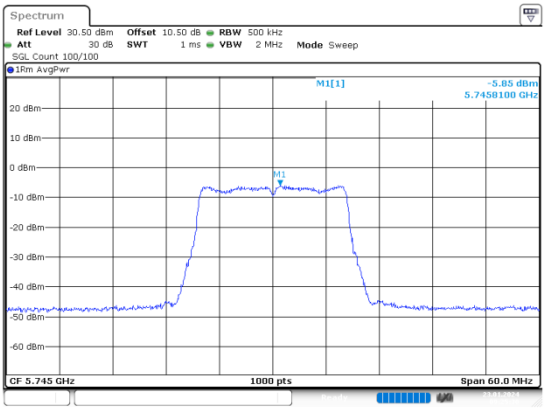


ac80_5210MHz_Chain 0



5.8G

a_ 5745 MHz_Chain 0



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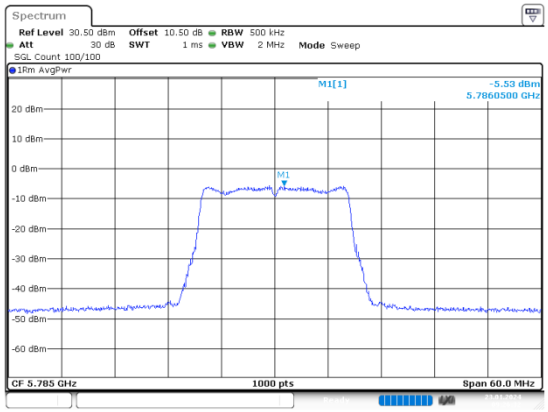
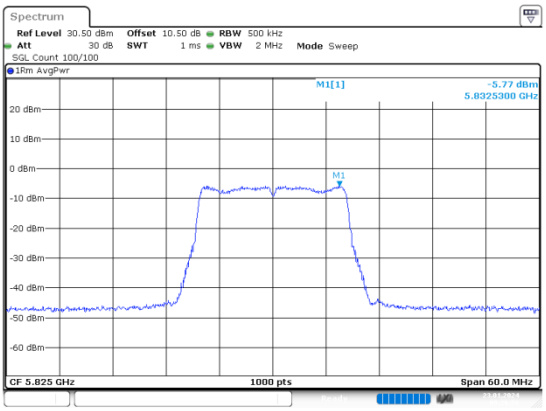
Date: 23.JAN.2024 09:25:30

a_5785MHz_Chain 0



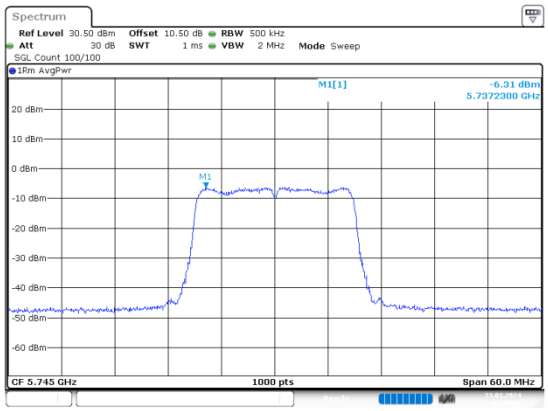
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:26:32

a_5825MHz_Chain 0



ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:26:58

n20_5745MHz_Chain 0



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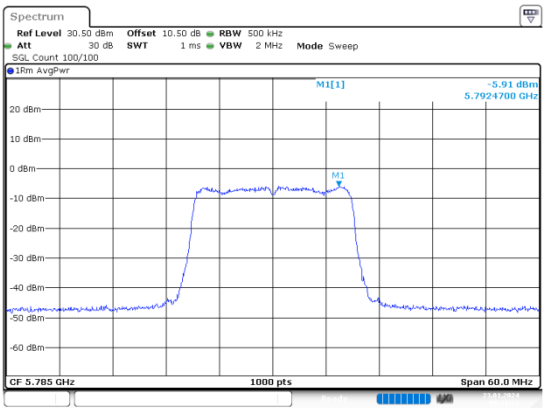
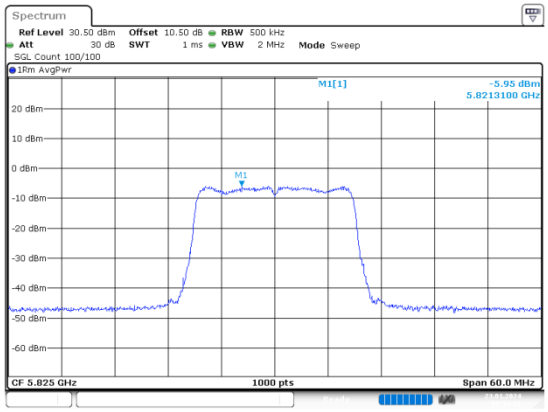
Date: 23.JAN.2024 09:30:47

n20_5785MHz_Chain 0



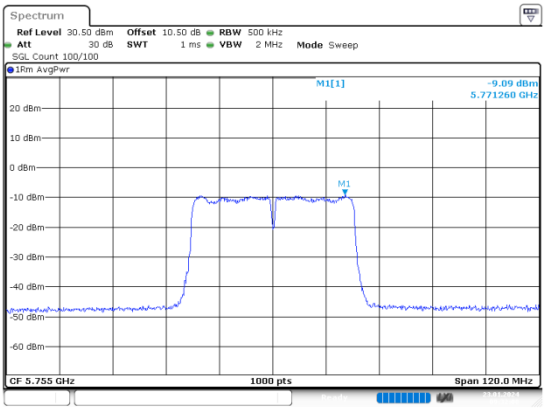
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:31:13

n20_5825MHz_Chain 0



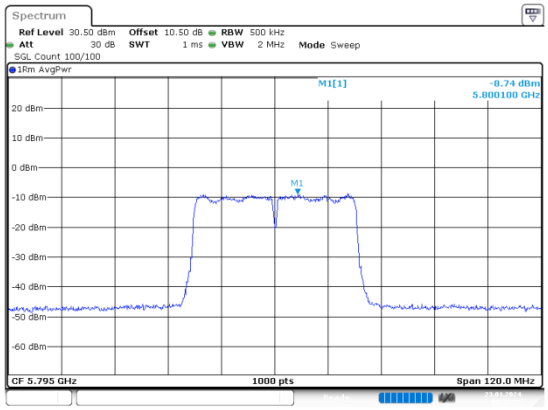
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:31:38

n40_5755MHz_Chain 0



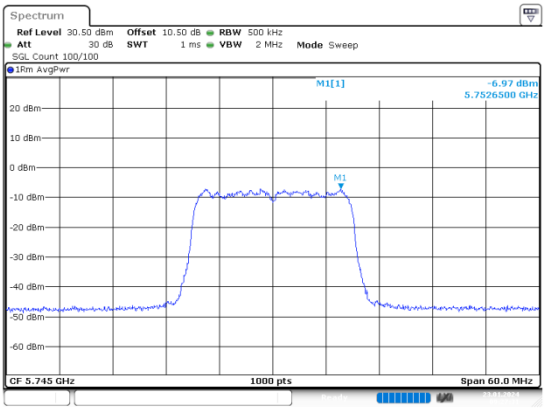
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:32:08

n40_5795MHz_Chain 0



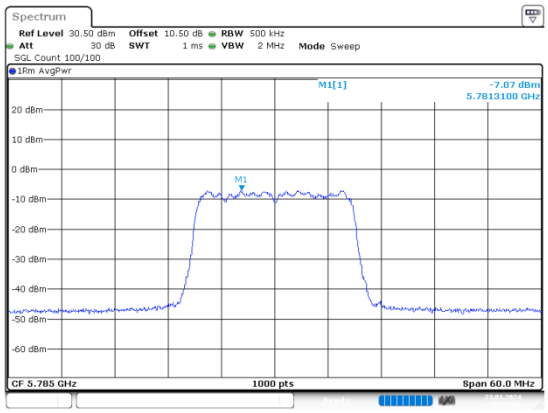
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:32:35

ac20_5745MHz_Chain 0



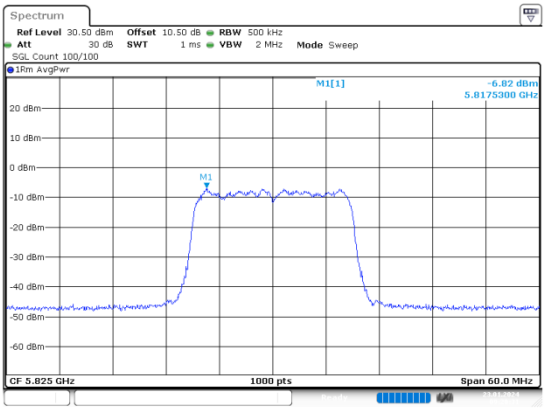
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:27:31

ac20_5785MHz_Chain 0



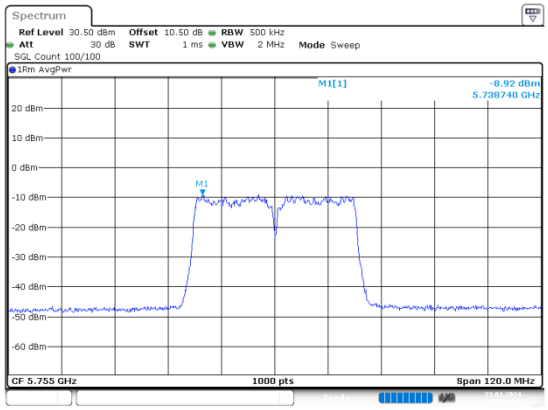
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:28:06

ac20_5825MHz_Chain 0



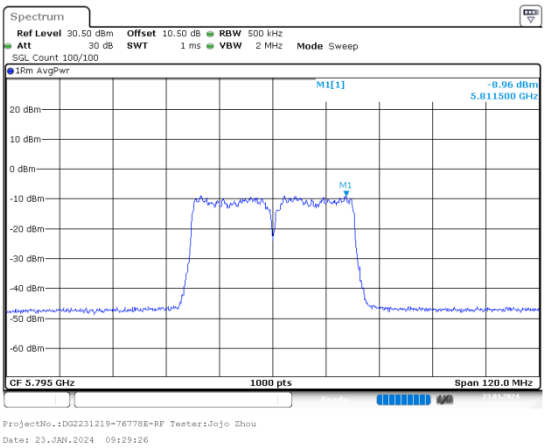
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:28:31

ac40_5755MHz_Chain 0

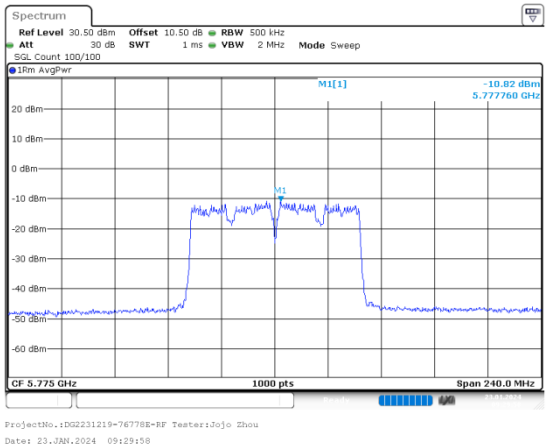


ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:29:01

ac40_5795MHz_Chain 0

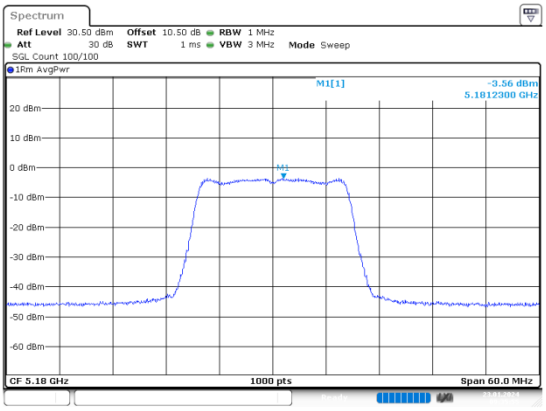


ac80_5775MHz_Chain 0



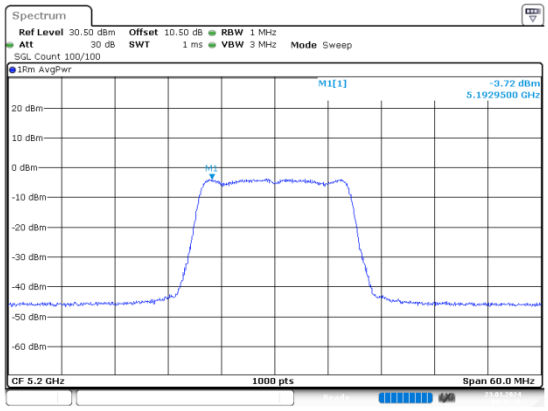
5.2G

a_ 5180 MHz_Chain 1



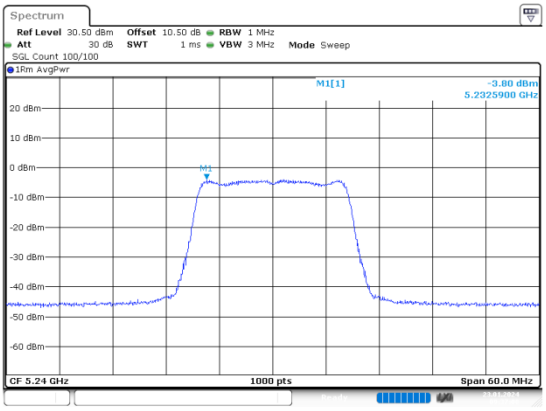
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:35:55

a_5200MHz_Chain 1



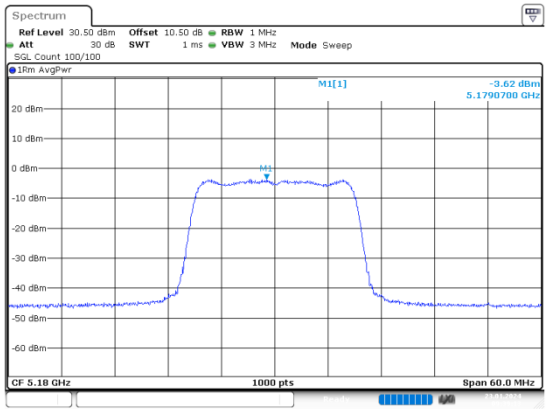
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:36:46

a_5240MHz_Chain 1



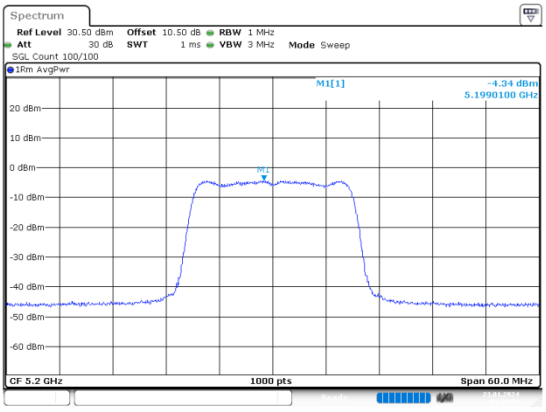
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:37:08

n20_5180MHz_Chain 1



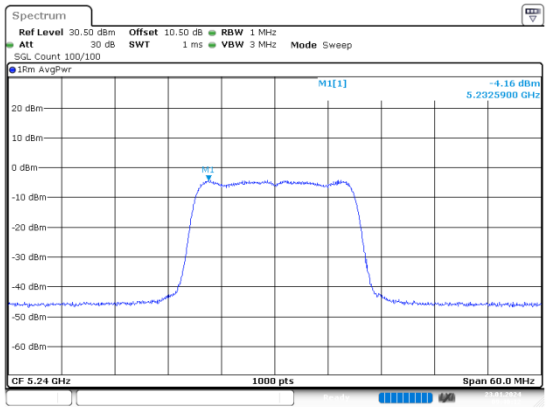
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:39:13

n20_5200MHz_Chain 1



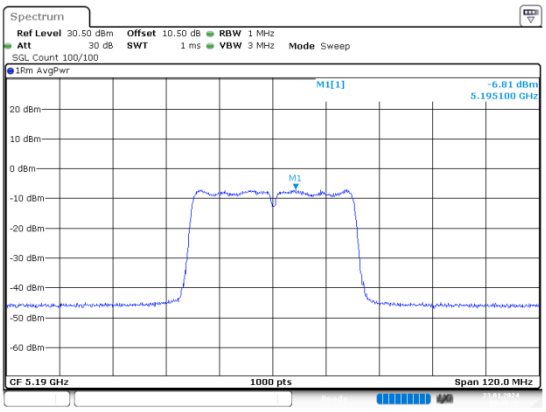
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 14:50:52

n20_5240MHz_Chain 1



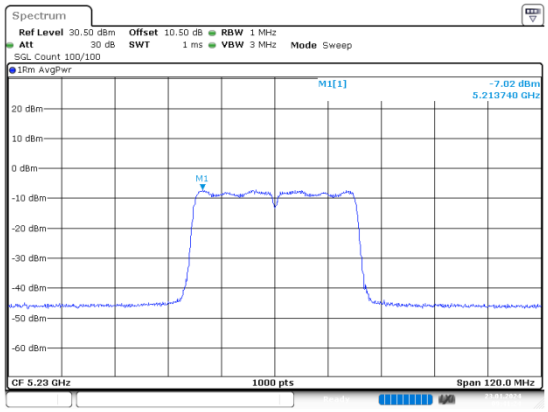
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:40:12

n40_5190MHz_Chain 1



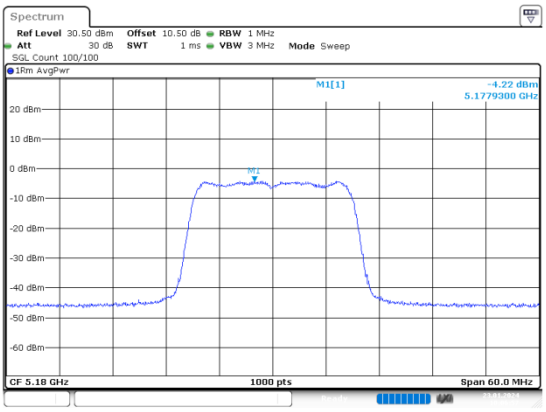
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:40:48

n40_5230MHz_Chain 1



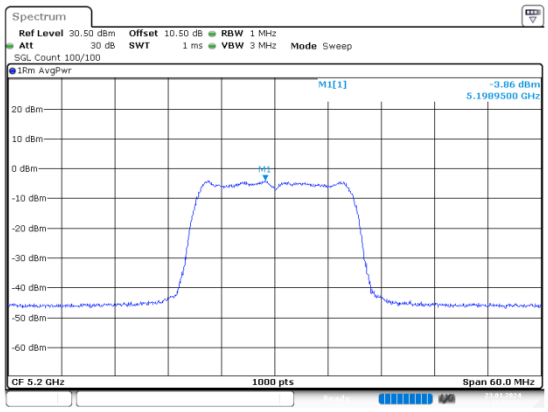
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:41:24

ac20_5180MHz_Chain 1



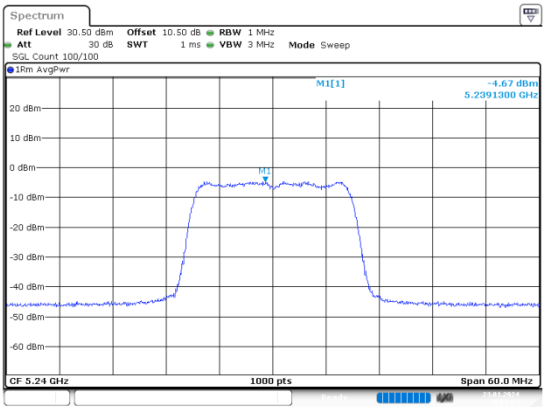
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 10:06:57

ac20_5200MHz_Chain 1



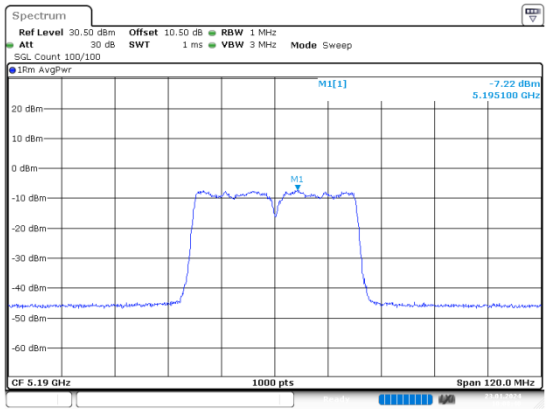
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 10:07:29

ac20_5240MHz_Chain 1



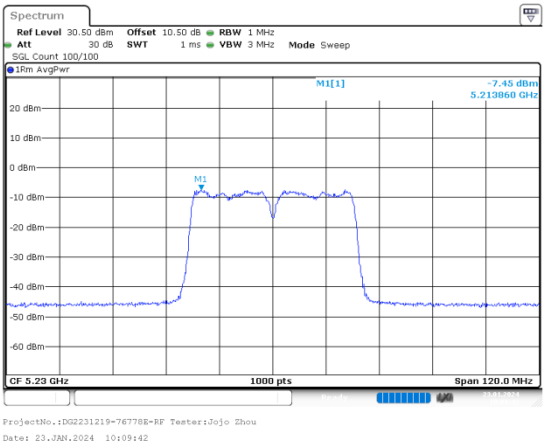
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 10:08:04

ac40_5190MHz_Chain 1

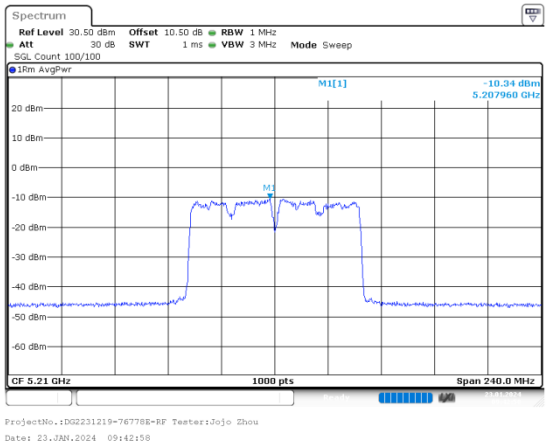


ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 10:08:40

ac40_5230MHz_Chain 1

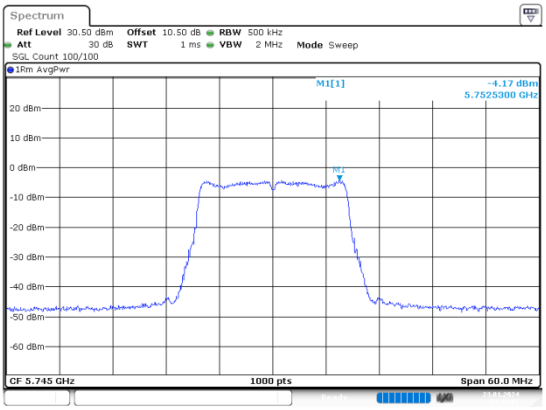


ac80_5210MHz_Chain 1



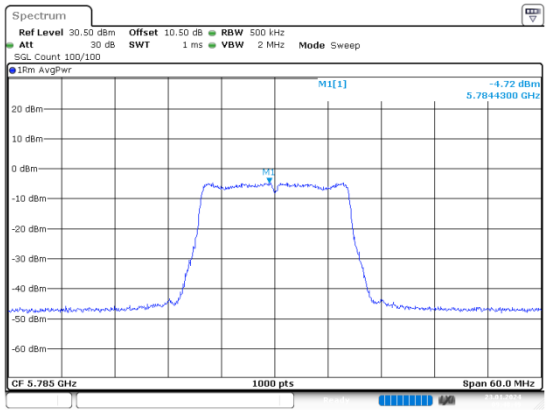
5.8G

a_ 5745 MHz_Chain 1



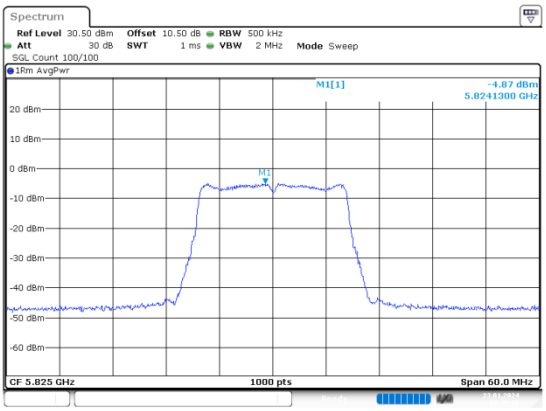
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:46:01

a_5785MHz_Chain 1



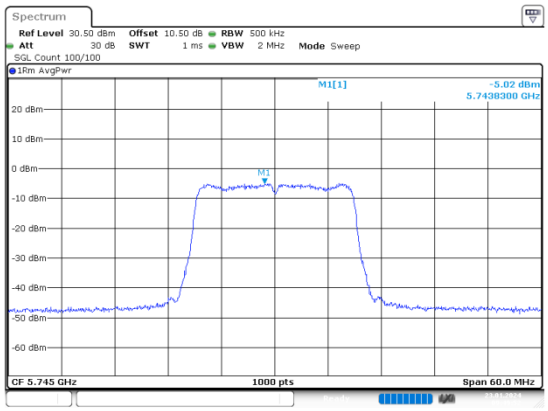
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:48:49

a_5825MHz_Chain 1



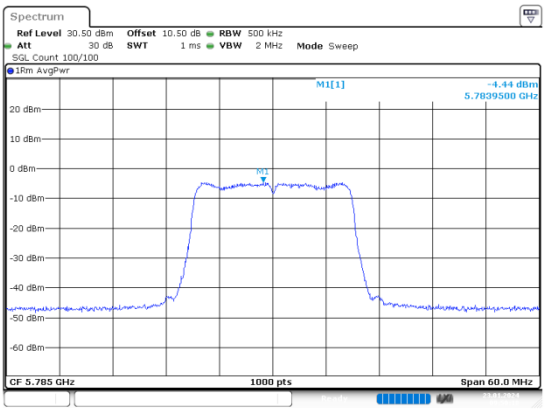
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:49:16

n20_5745MHz_Chain 1



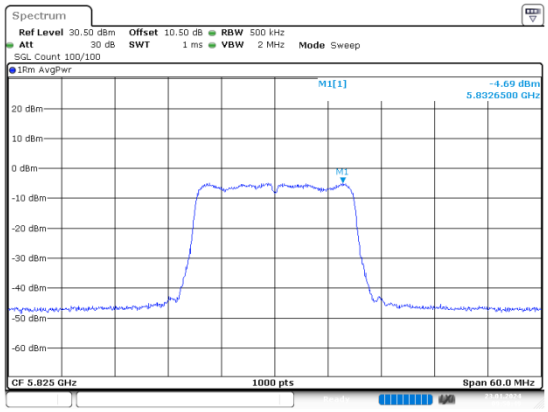
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:49:52

n20_5785MHz_Chain 1



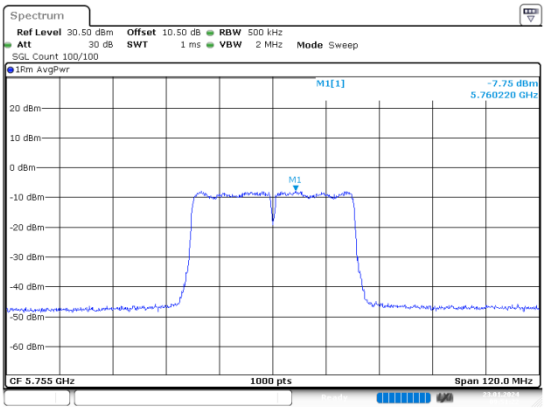
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:50:18

n20_5825MHz_Chain 1



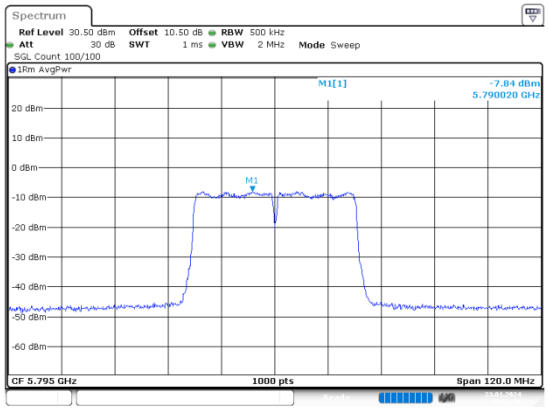
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:50:49

n40_5755MHz_Chain 1



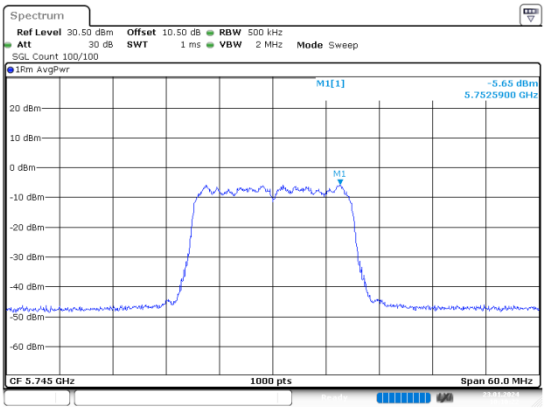
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:51:22

n40_5795MHz_Chain 1



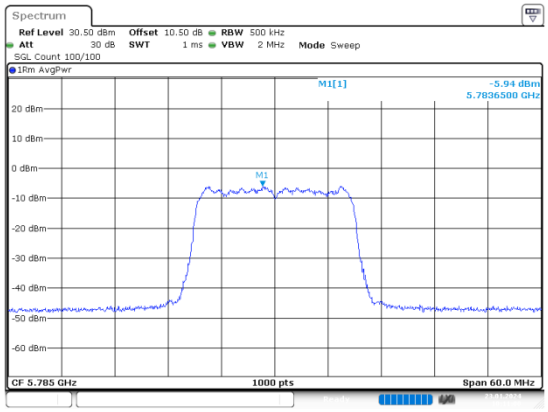
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 09:51:49

ac20_5745MHz_Chain 1



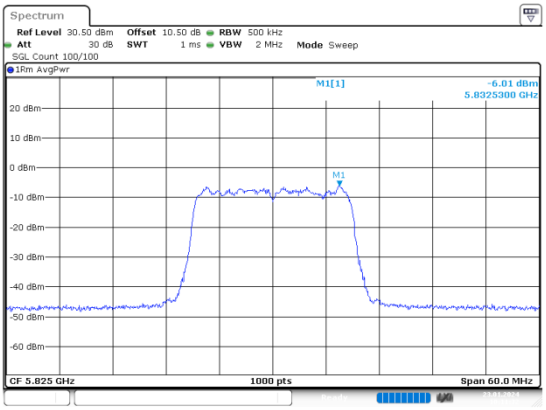
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 10:10:22

ac20_5785MHz_Chain 1



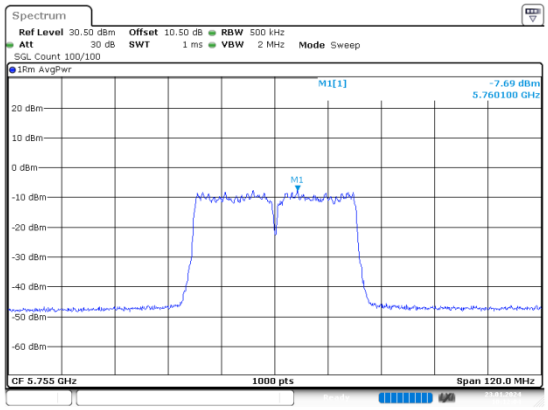
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 10:11:00

ac20_5825MHz_Chain 1



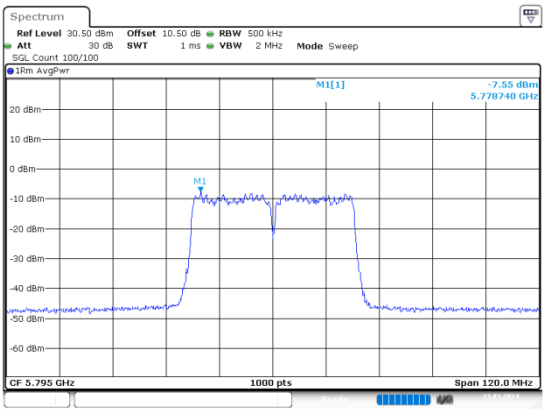
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 10:11:32

ac40_5755MHz_Chain 1

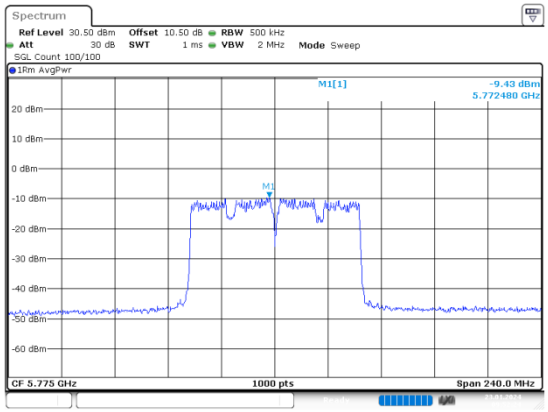


ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 23.JAN.2024 10:12:04

ac40_5795MHz_Chain 1



ac80_5775MHz_Chain 1



5.7 Duty Cycle

Serial No.:	2FJB-5	**Test Date:**	2024-01-22
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Jojo Zhou	**Test Result:**	/

Environmental Conditions:

Temperature: (℃)	24.3	**Relative Humidity: (%)**	39	**ATM Pressure: (kPa)**	101.9

Test Equipment List and Details:

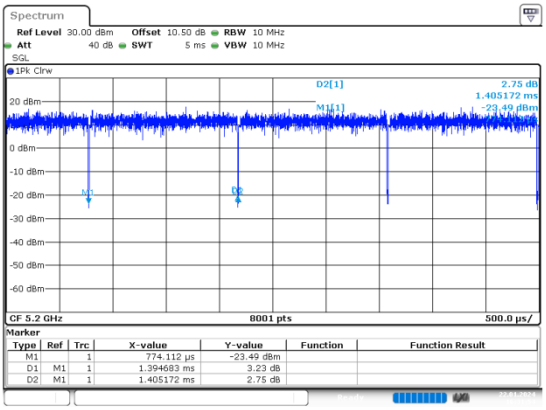
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2023-10-18	2024-10-17
E-Microwave	Blocking Control	EMDCB-00036	OE01201047	2023-05-06	2024-05-05
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	2023-09-01	2024-08-31

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

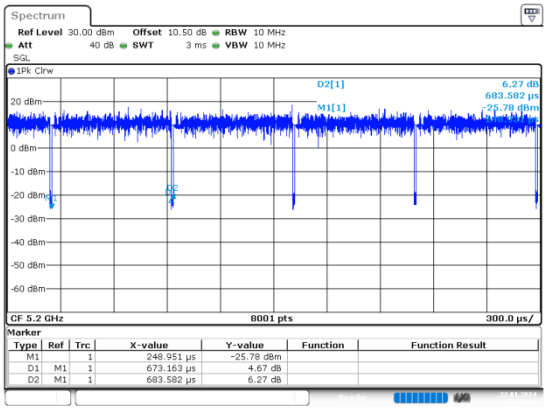
Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	Duty cycle Factor (dB)	VBW Setting (kHz)
a_Chain 0	1.395	1.405	99.290	/	/	0.01
n20_Chain 0	0.673	0.684	98.390	/	/	0.01
n40_Chain 0	0.349	0.360	96.940	2864.000	0.130	3
ac20_Chain 0	0.101	0.112	90.180	9900.000	0.450	10
ac40_Chain 0	0.072	0.084	85.710	13823.000	0.670	20
ac80_Chain 0	0.058	0.068	85.290	17102.000	0.690	20

a_5200MHz_Chain 0



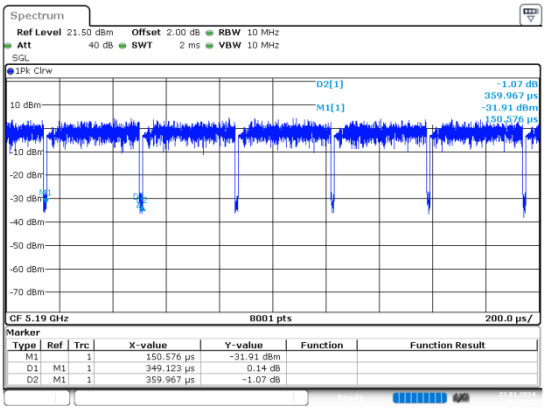
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:31:54

n20_5200MHz_Chain 0



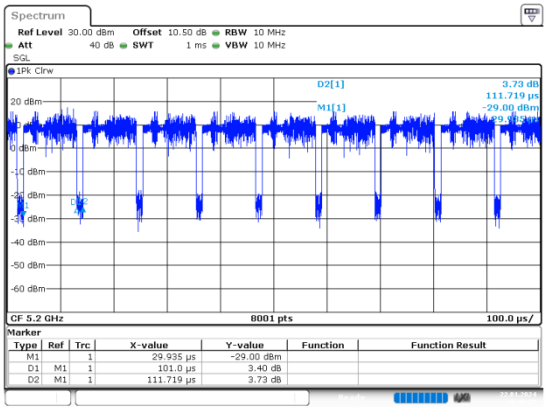
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:38:34

n40_5190MHz_Chain 0



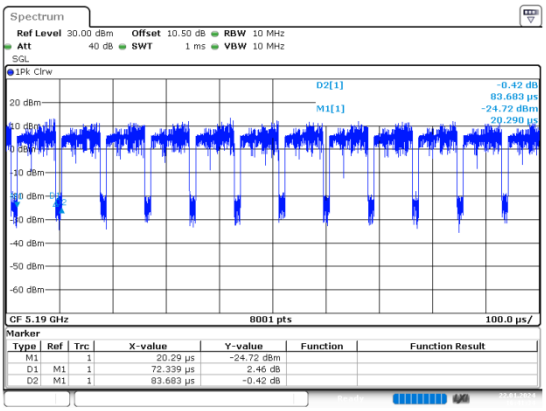
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:35:02

ac20_5200MHz_Chain 0



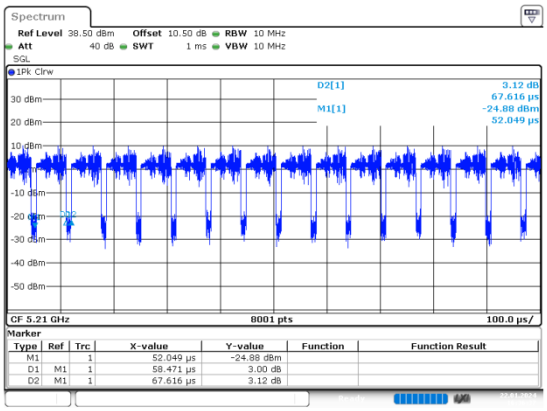
ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:40:27

ac40_5190MHz_Chain 0



ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:41:35

ac80_5210MHz_Chain 0



ProjectNo.:DG2231219-76778E-RF Tester:Jojo Zhou
Date: 22.JAN.2024 16:36:38

APPENDIX A - EUT PHOTOGRAPHS

Please refer to the attachment DG2231219-76778E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and DG2231219-76778E-RF-INP EUT INTERNAL PHOTOGRAPHS.

APPENDIX B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment DG2231219-76778E-RF-00C-TSP TEST SETUP PHOTOGRAPHS.

APPENDIX C - RF EXPOSURE EVALUATION

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f^2)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
	(dBi)	(numeric)	(dBm)	(mW)			
2412-2462	4.50	2.82	21.00	125.89	20.00	0.07	1.0
5150-5250	16.08	40.55	9.00	7.94	20.00	0.06	1.0
5725-5850	15.25	33.50	11.00	12.59	20.00	0.08	1.0

The Conducted output power including Tune-up Tolerance provided by manufacturer

The WLAN 2.4G and 5G can transmit simultaneously:

$$\sum_i \frac{S_i}{S_{Limit,i}}$$

$=S_{2.4}/S_{limit-2.4}+ S_5/S_{limit-5}$

=0.07/1+0.08/1

=0.15

< 1.0

Result: The device meet FCC MPE at 20 cm distance

===== END OF REPORT ====