

FCC Appendix RF Test Data for 5.2GWIFI

Product Name: Smart Diagnostic System

Test Model: P720

Environmental Conditions

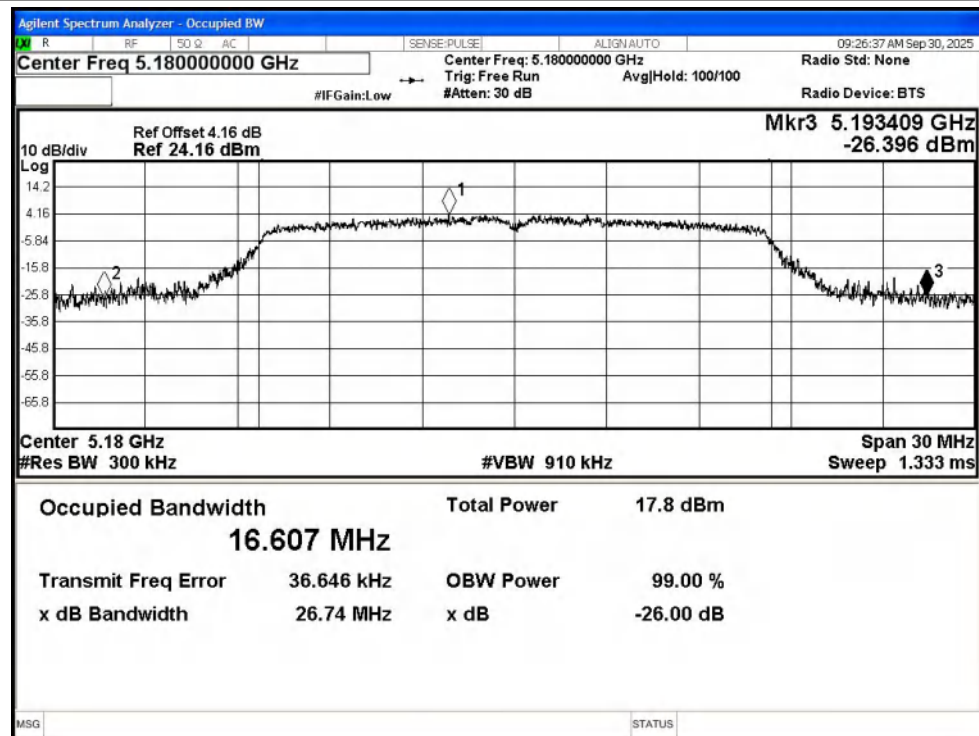
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1 -26dB Bandwidth

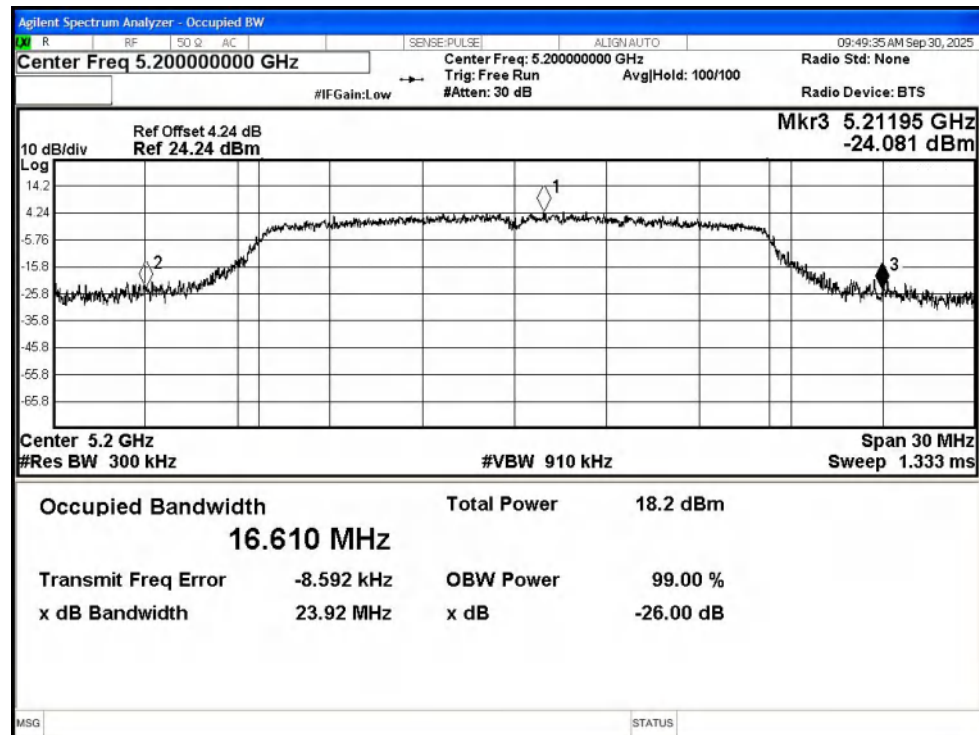
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	26.745	≥ 0.5	Pass
NVNT	a	5200	Ant1	23.918	≥ 0.5	Pass
NVNT	a	5240	Ant1	29.74	≥ 0.5	Pass
NVNT	n20	5180	Ant1	28.001	≥ 0.5	Pass
NVNT	n20	5200	Ant1	24.162	≥ 0.5	Pass
NVNT	n20	5240	Ant1	24.448	≥ 0.5	Pass
NVNT	n40	5190	Ant1	40.346	≥ 0.5	Pass
NVNT	n40	5230	Ant1	54.244	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	23.636	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	23.475	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	27.201	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	40.673	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	58.894	≥ 0.5	Pass
NVNT	ac80	5210	Ant1	81.057	≥ 0.5	Pass

Test Graphs

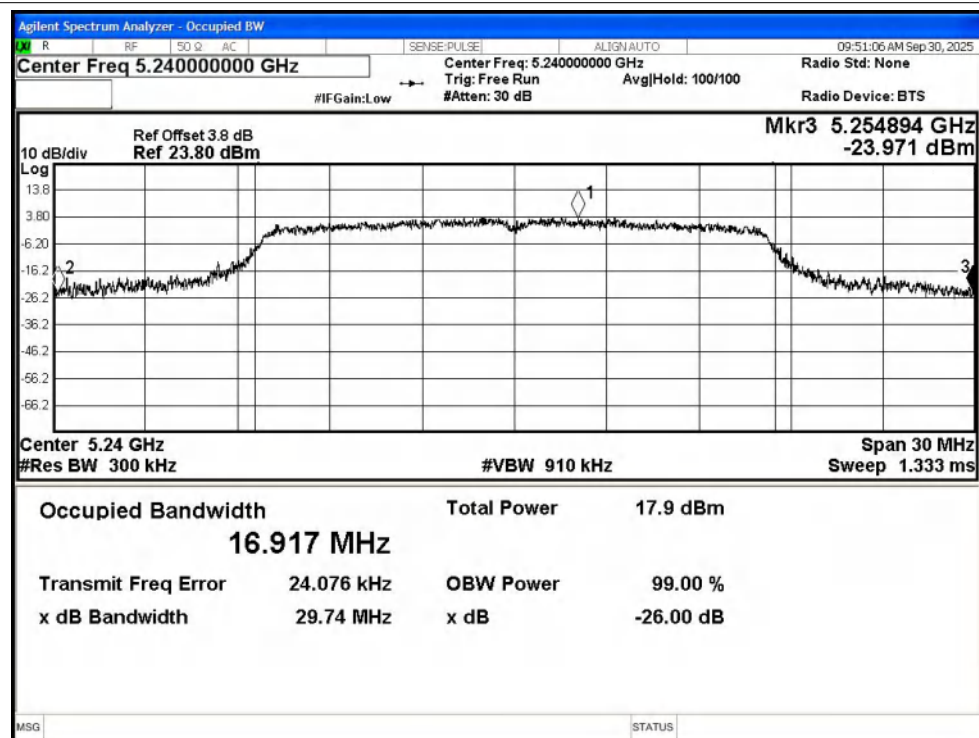
-26dB Bandwidth NVNT a 5180MHz Ant1



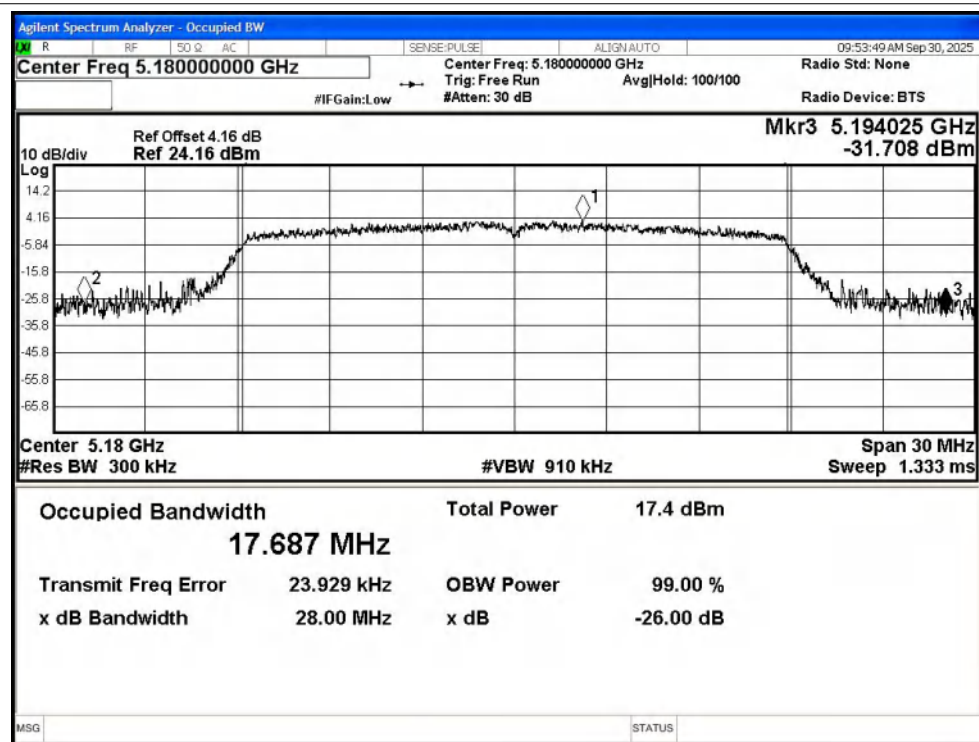
-26dB Bandwidth NVNT a 5200MHz Ant1



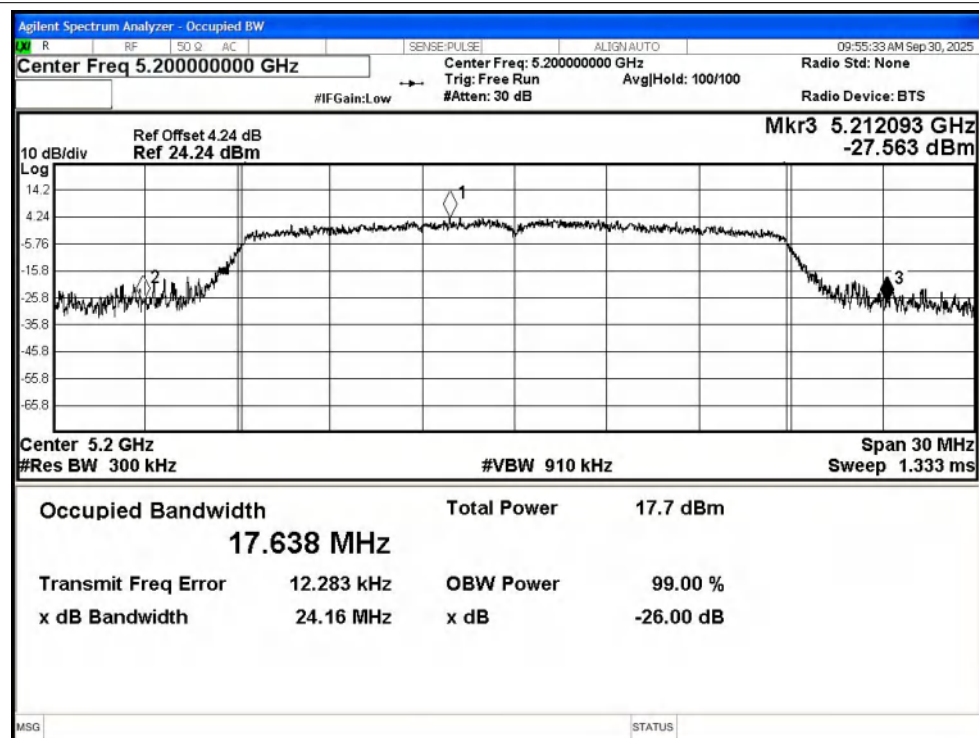
-26dB Bandwidth NVNT a 5240MHz Ant1



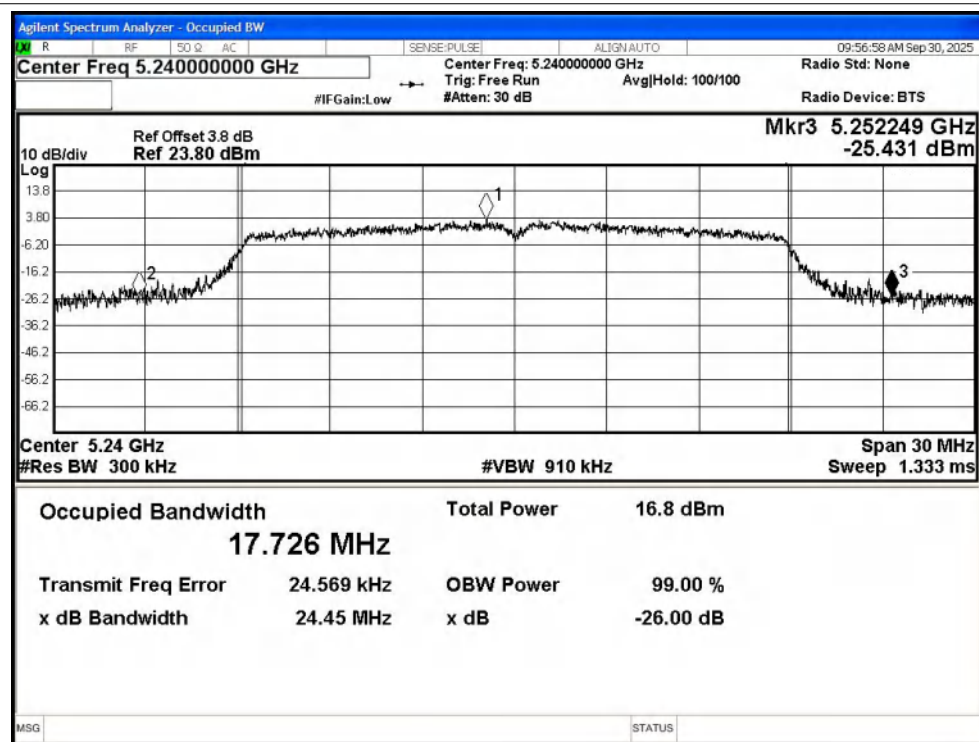
-26dB Bandwidth NVNT n20 5180MHz Ant1



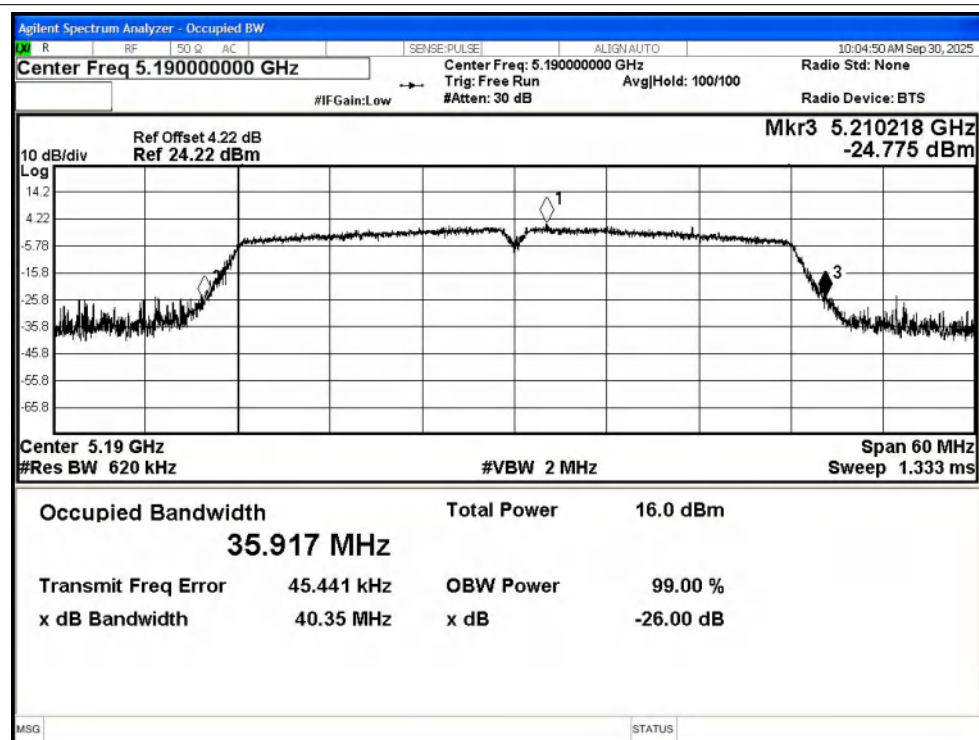
-26dB Bandwidth NVNT n20 5200MHz Ant1



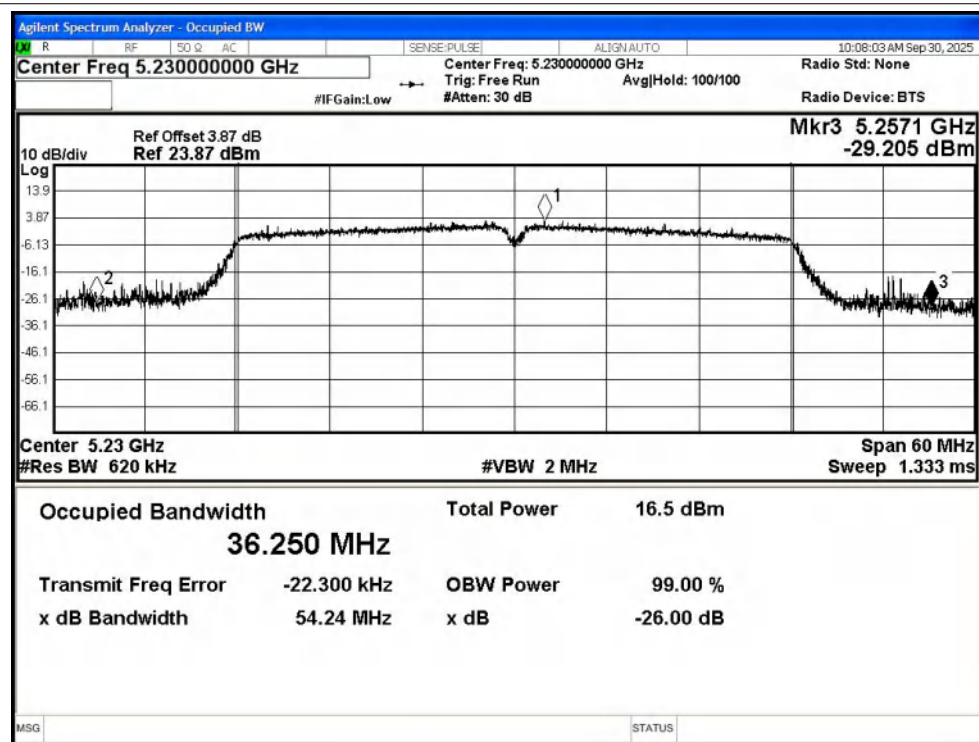
-26dB Bandwidth NVNT n20 5240MHz Ant1



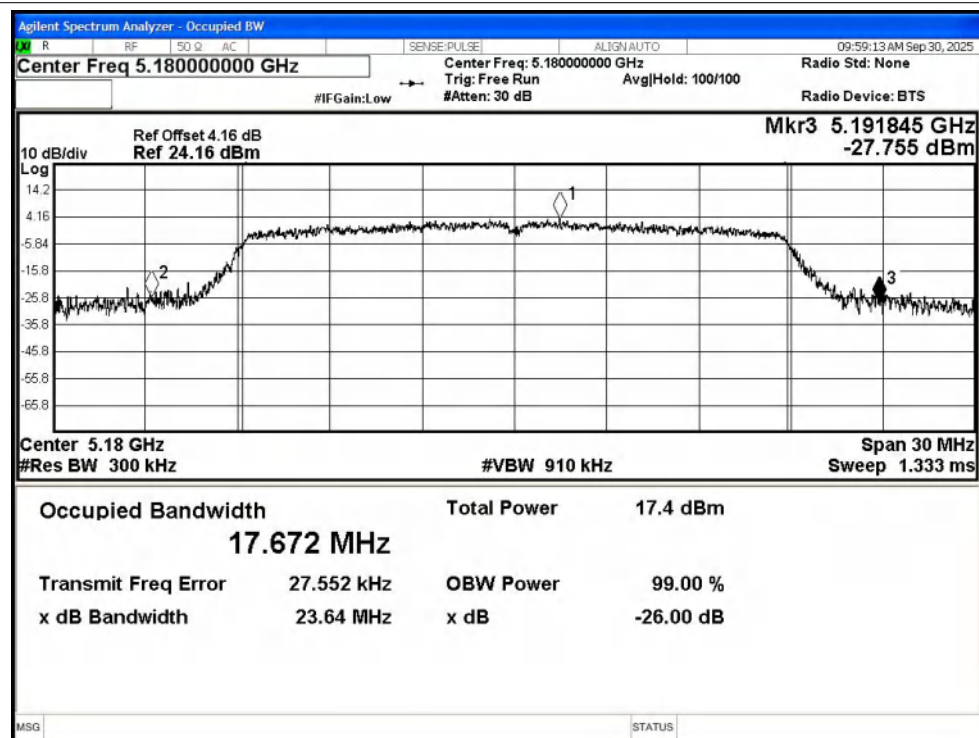
-26dB Bandwidth NVNT n40 5190MHz Ant1



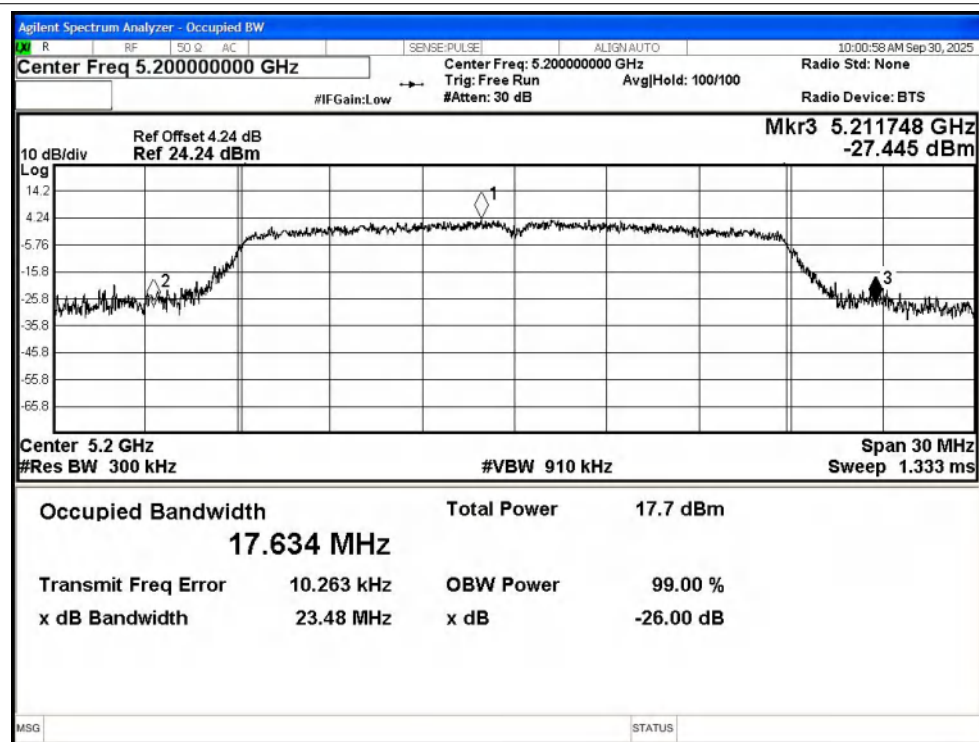
-26dB Bandwidth NVNT n40 5230MHz Ant1



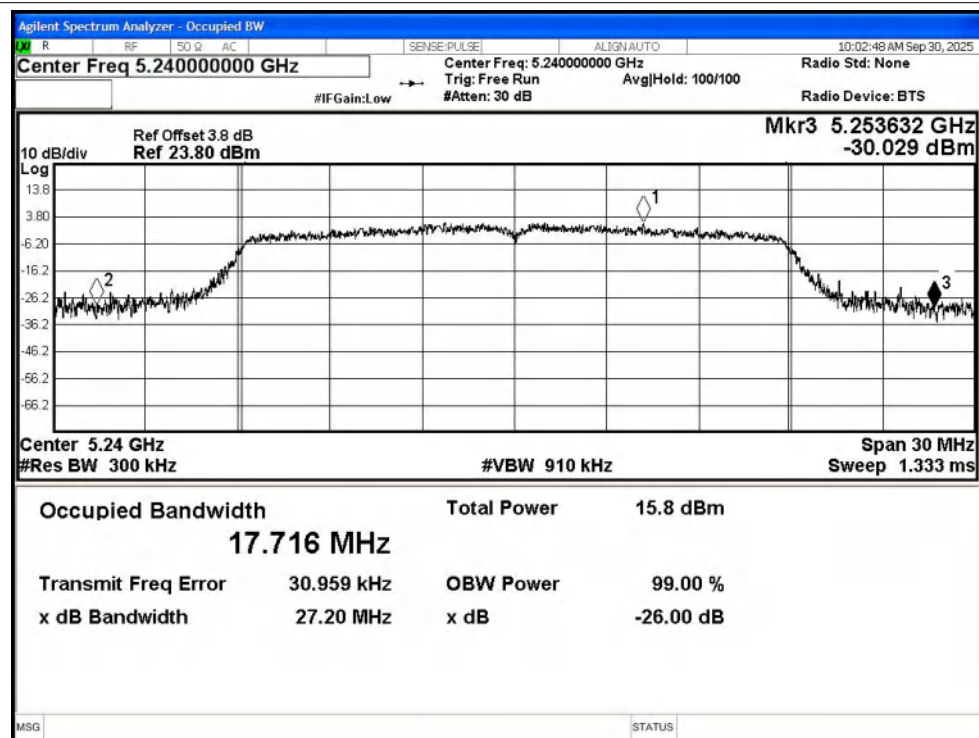
-26dB Bandwidth NVNT ac20 5180MHz Ant1



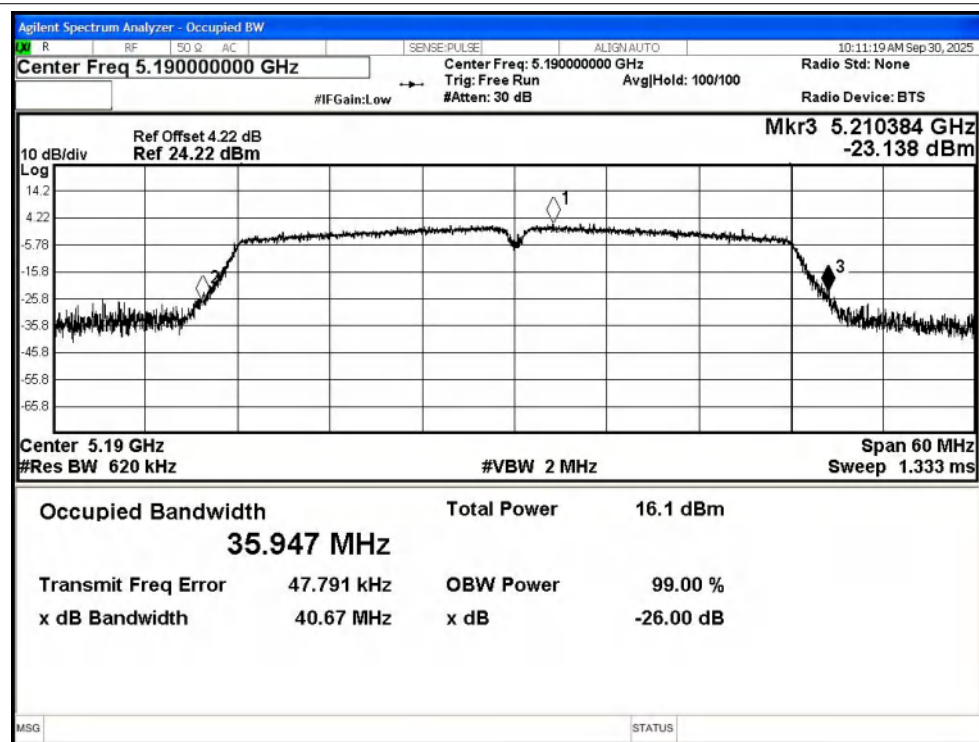
-26dB Bandwidth NVNT ac20 5200MHz Ant1



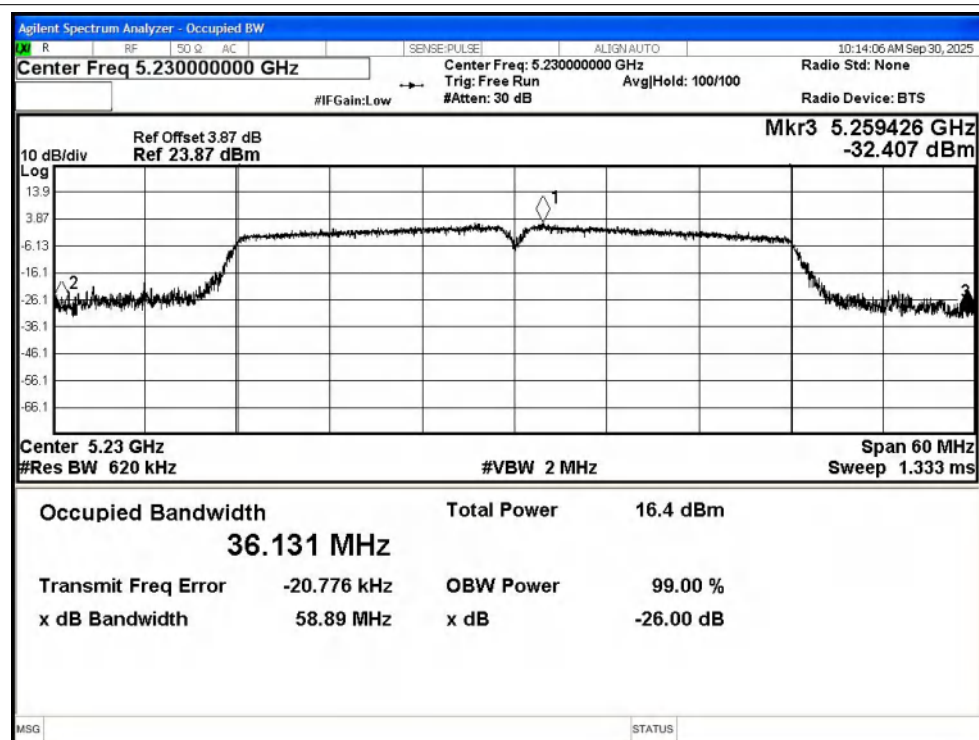
-26dB Bandwidth NVNT ac20 5240MHz Ant1



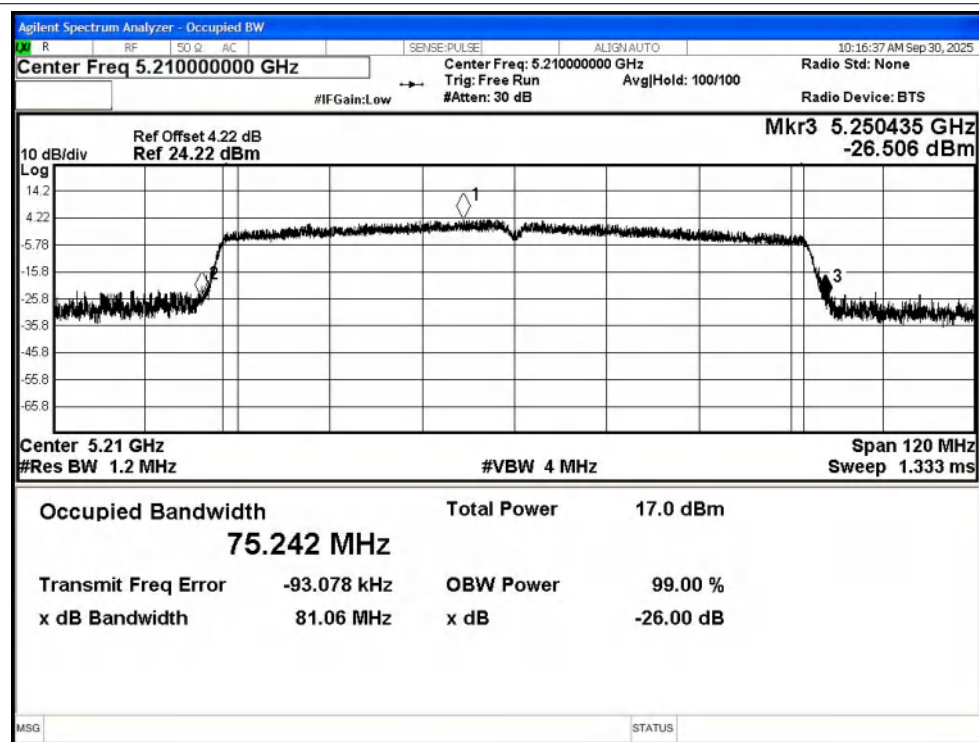
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



2 Maximum Conducted Output Power

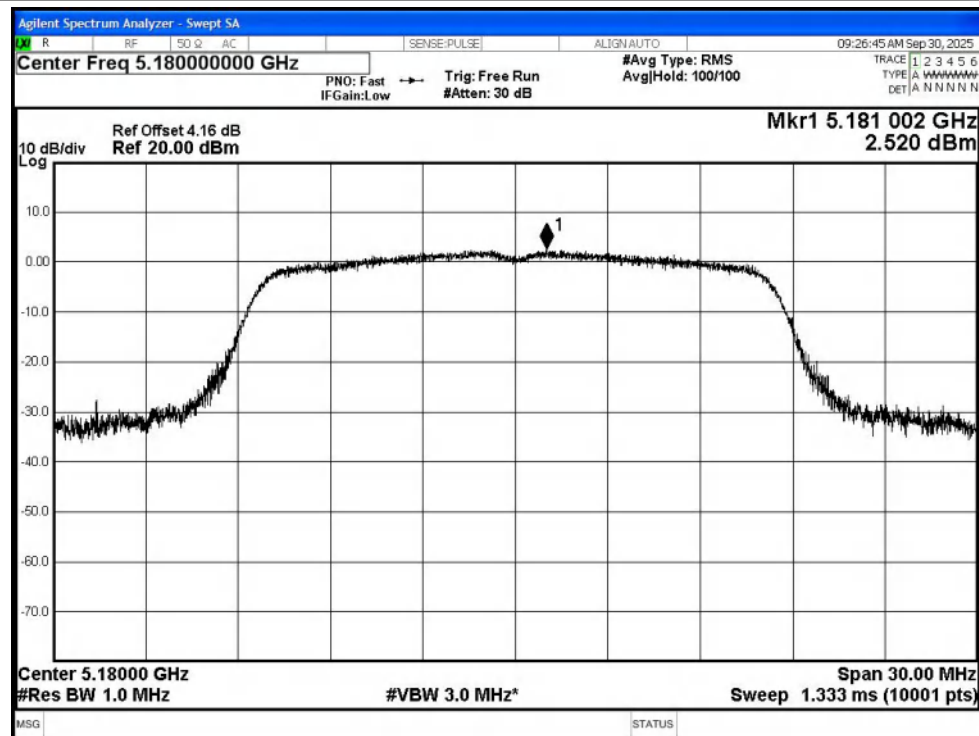
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.29	0.11	12.40	24	Pass
NVNT	a	5200	Ant1	12.63	0.11	12.74	24	Pass
NVNT	a	5240	Ant1	12.06	0.11	12.17	24	Pass
NVNT	n20	5180	Ant1	11.63	0.12	11.75	24	Pass
NVNT	n20	5200	Ant1	11.91	0.12	12.03	24	Pass
NVNT	n20	5240	Ant1	11.1	0.12	11.22	24	Pass
NVNT	n40	5190	Ant1	9.99	0.12	10.11	24	Pass
NVNT	n40	5230	Ant1	10.37	0.12	10.49	24	Pass
NVNT	ac20	5180	Ant1	11.64	0.11	11.75	24	Pass
NVNT	ac20	5200	Ant1	11.96	0.11	12.07	24	Pass
NVNT	ac20	5240	Ant1	10.14	0.11	10.25	24	Pass
NVNT	ac40	5190	Ant1	10.08	0.12	10.20	24	Pass
NVNT	ac40	5230	Ant1	10.46	0.12	10.58	24	Pass
NVNT	ac80	5210	Ant1	9.89	0.25	10.14	24	Pass

3 Maximum Power Spectral Density Level

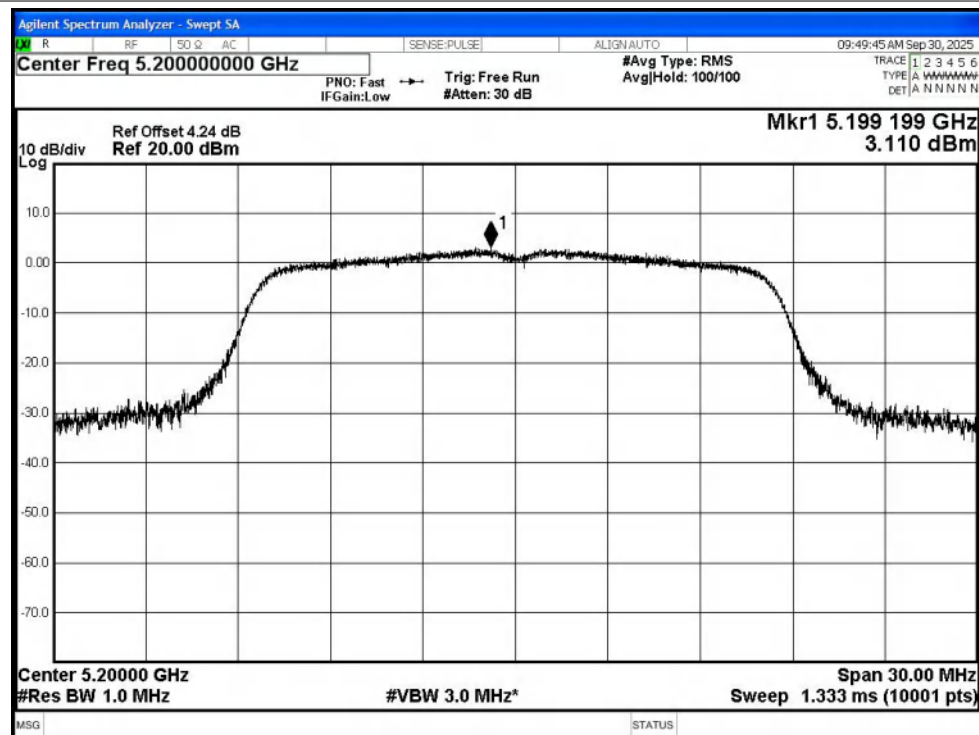
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	2.52	0.11	2.63	11	Pass
NVNT	a	5200	Ant1	3.11	0.11	3.22	11	Pass
NVNT	a	5240	Ant1	2.4	0.11	2.51	11	Pass
NVNT	n20	5180	Ant1	1.94	0.12	2.06	11	Pass
NVNT	n20	5200	Ant1	2.3	0.12	2.42	11	Pass
NVNT	n20	5240	Ant1	1.15	0.12	1.27	11	Pass
NVNT	n40	5190	Ant1	-2.52	0.12	-2.4	11	Pass
NVNT	n40	5230	Ant1	-2.47	0.12	-2.35	11	Pass
NVNT	ac20	5180	Ant1	1.98	0.11	2.09	11	Pass
NVNT	ac20	5200	Ant1	2.01	0.11	2.12	11	Pass
NVNT	ac20	5240	Ant1	0.19	0.11	0.3	11	Pass
NVNT	ac40	5190	Ant1	-2.87	0.12	-2.75	11	Pass
NVNT	ac40	5230	Ant1	-2.25	0.12	-2.13	11	Pass
NVNT	ac80	5210	Ant1	-5.19	0.25	-4.94	11	Pass

Test Graphs

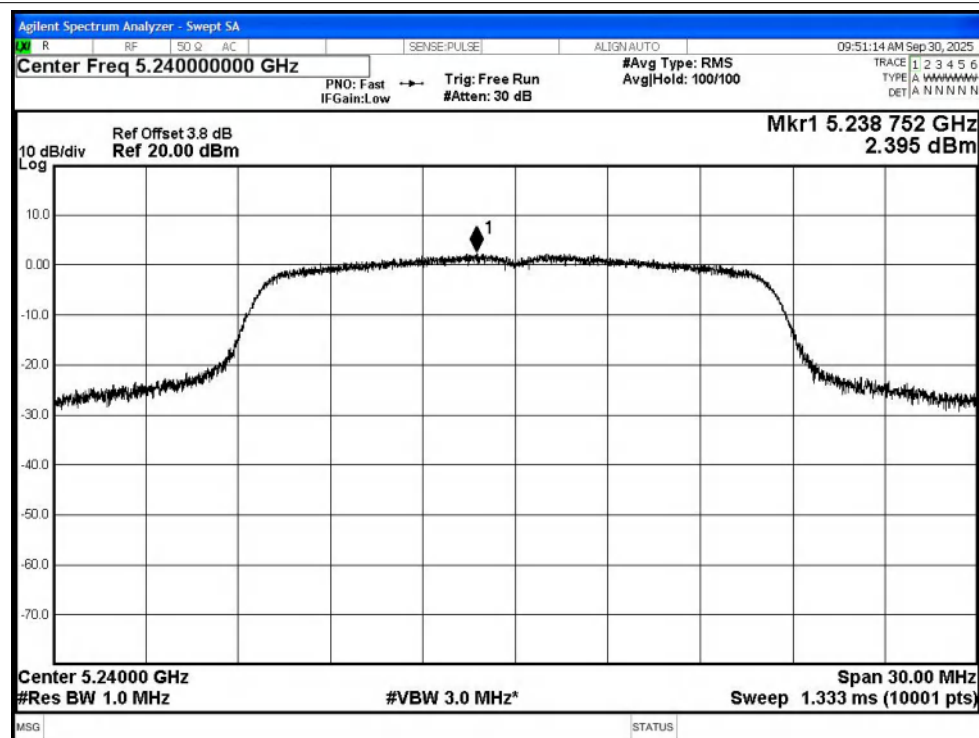
PSD NVNT a 5180MHz Ant1



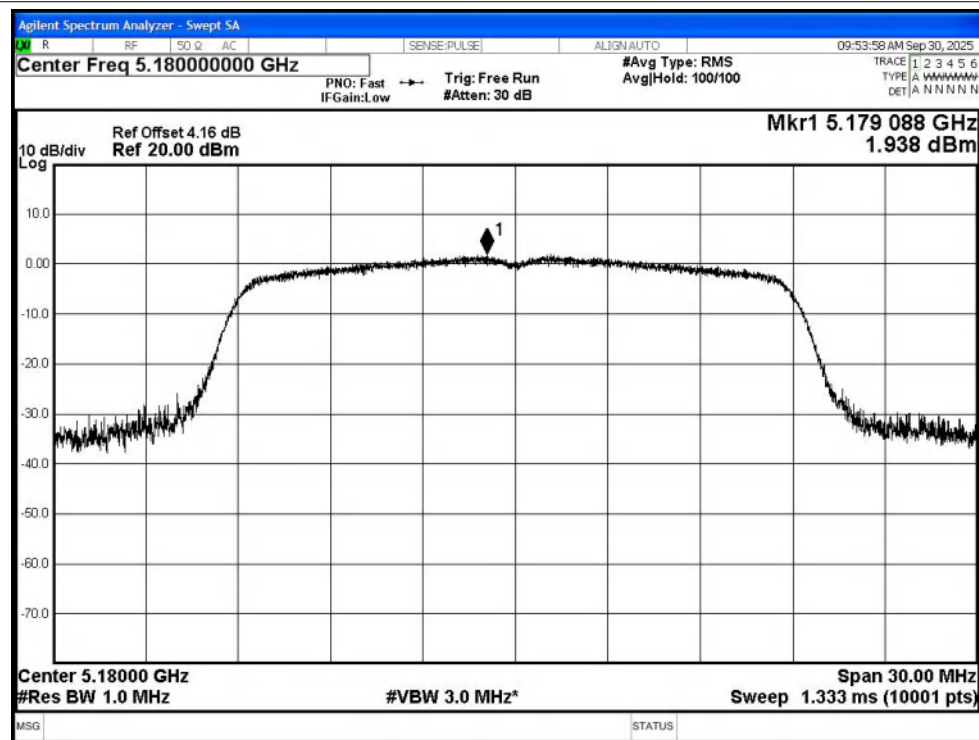
PSD NVNT a 5200MHz Ant1



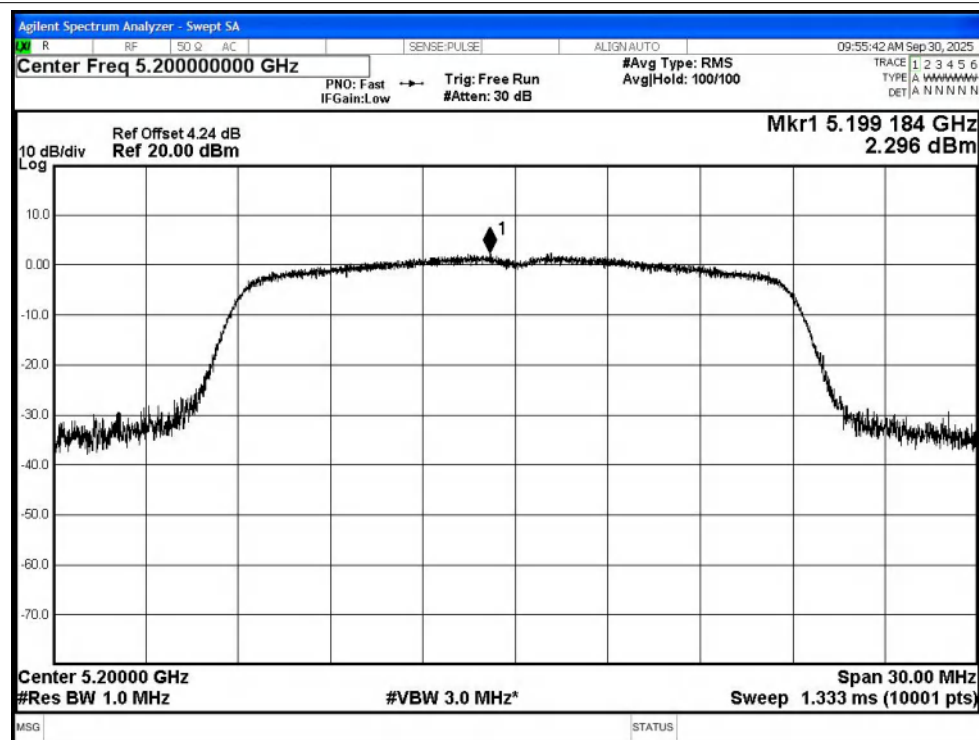
PSD NVNT a 5240MHz Ant1



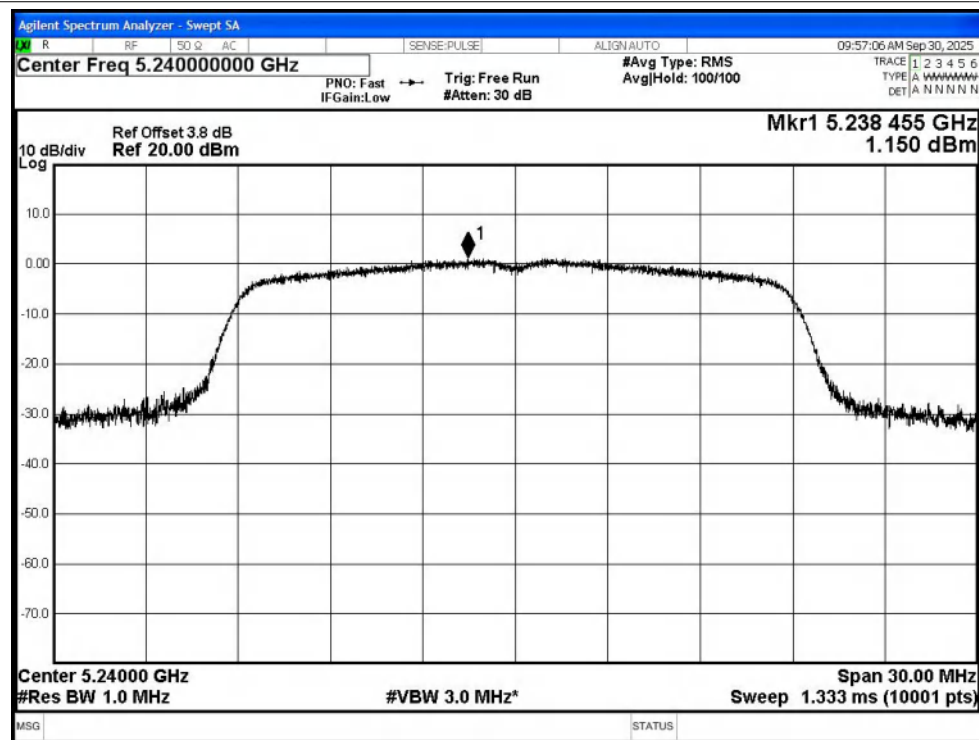
PSD NVNT n20 5180MHz Ant1



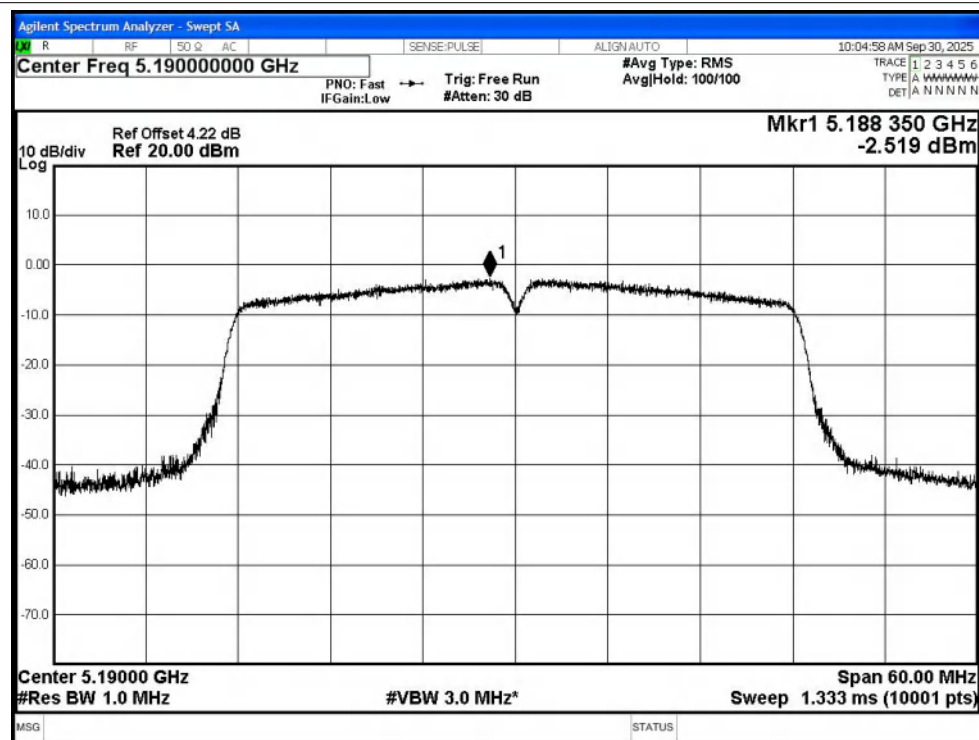
PSD NVNT n20 5200MHz Ant1



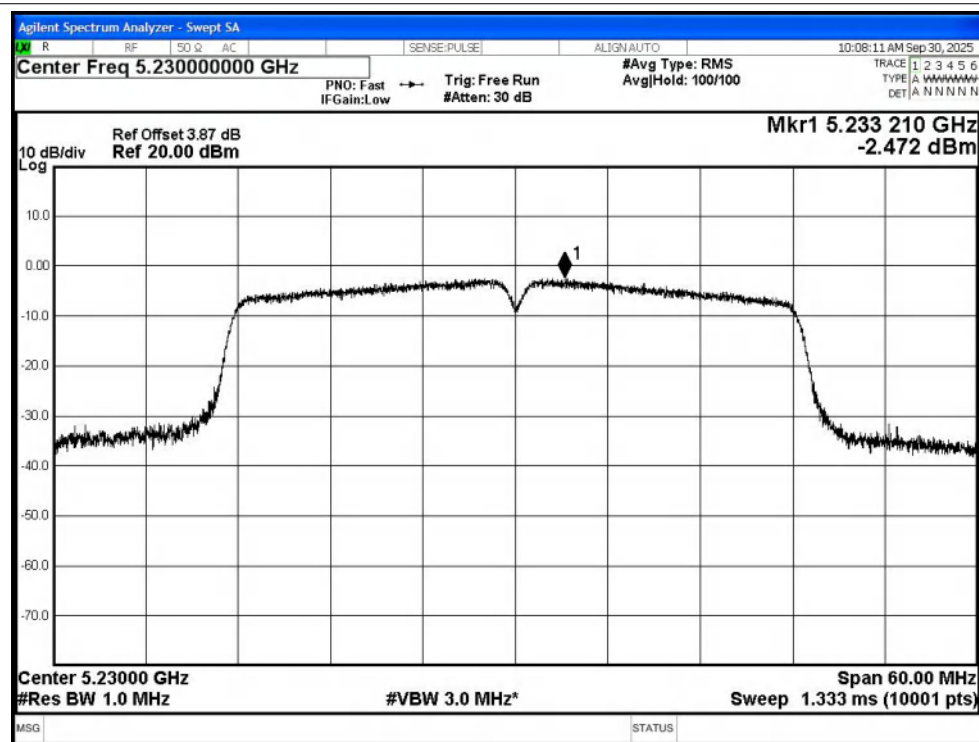
PSD NVNT n20 5240MHz Ant1



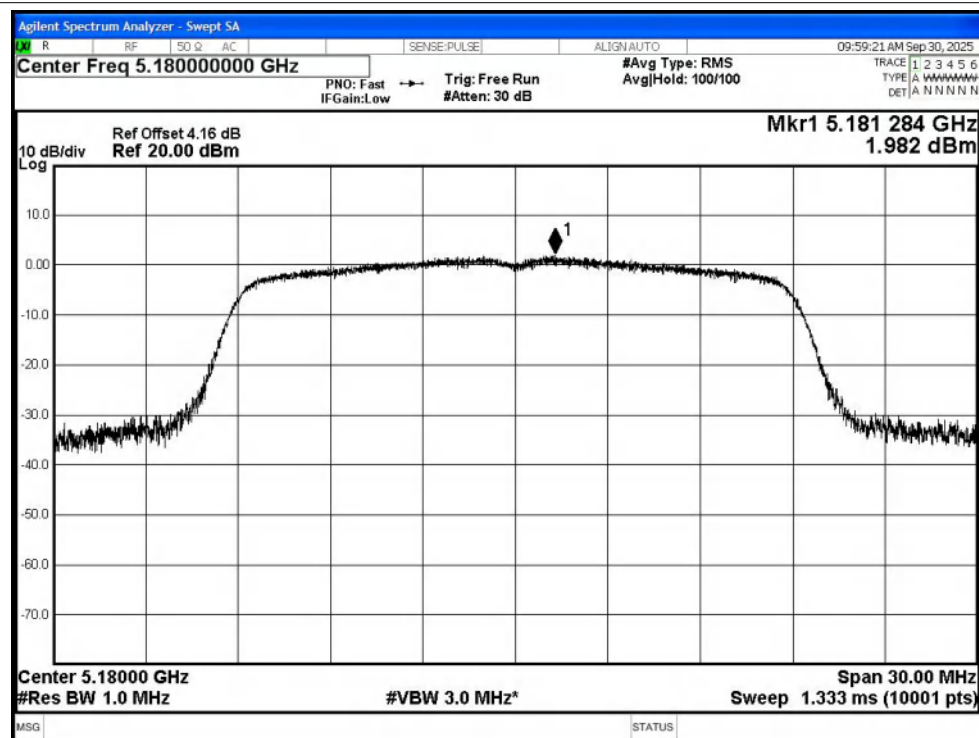
PSD NVNT n40 5190MHz Ant1



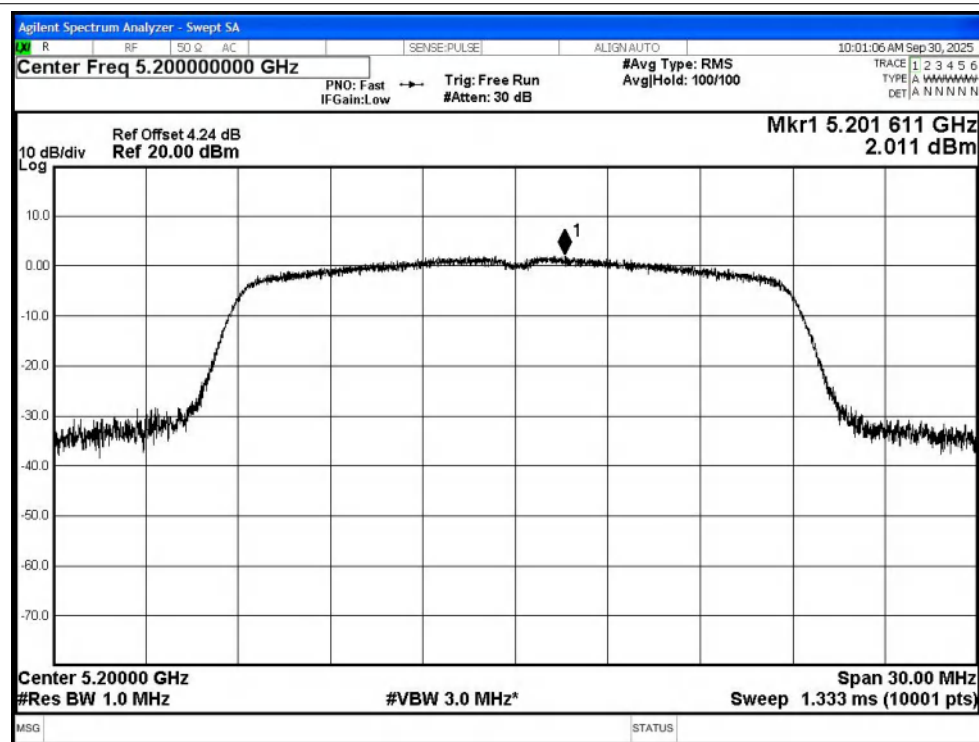
PSD NVNT n40 5230MHz Ant1



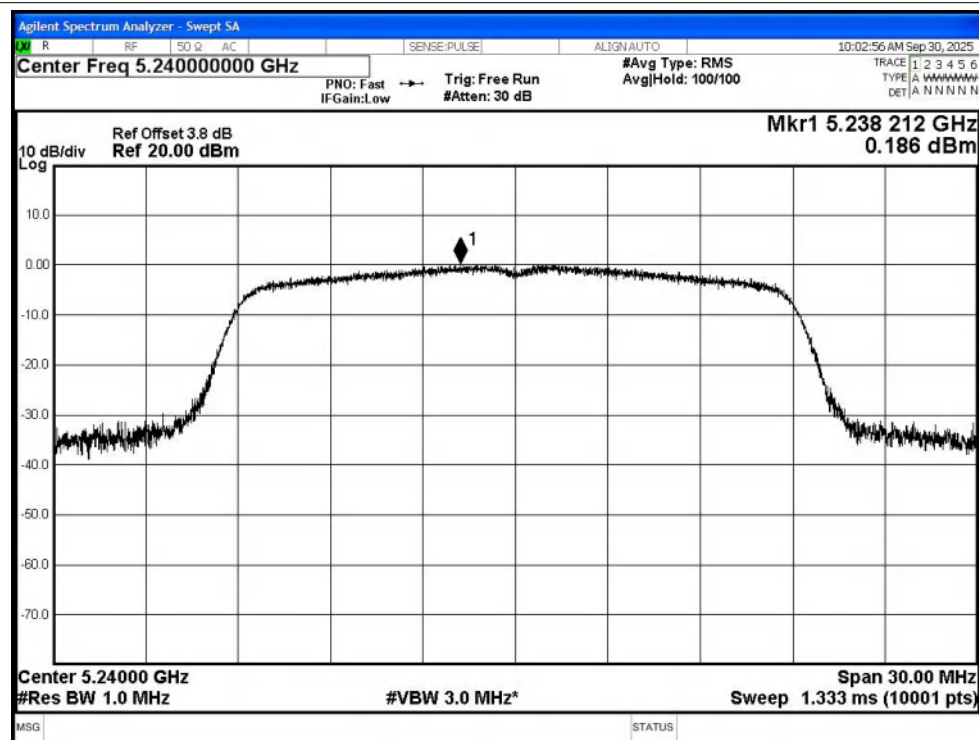
PSD NVNT ac20 5180MHz Ant1



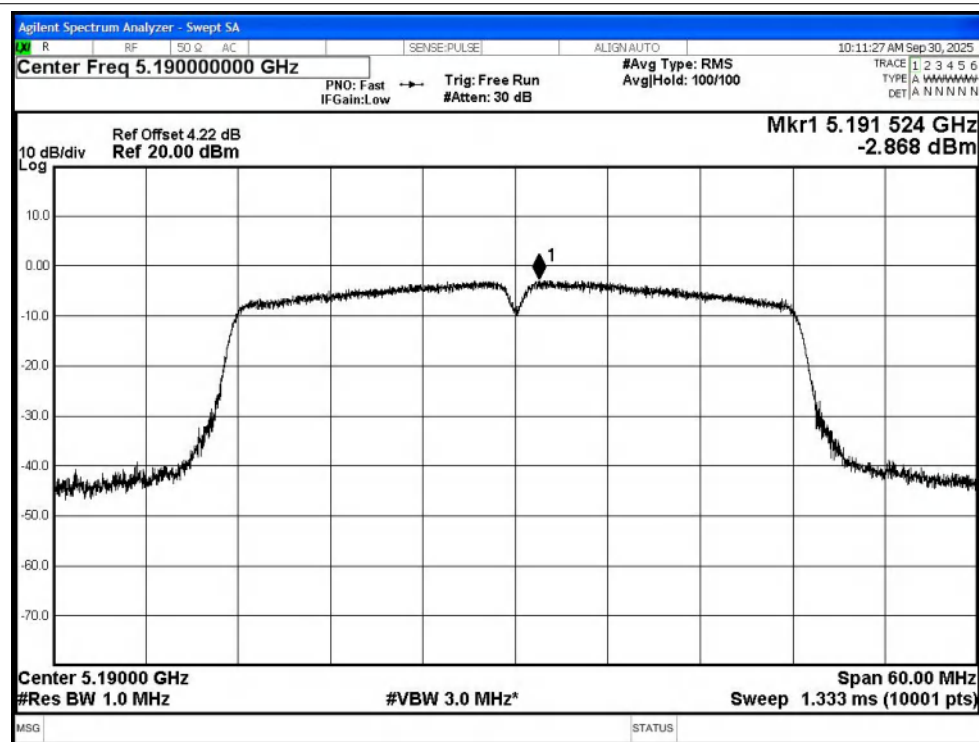
PSD NVNT ac20 5200MHz Ant1



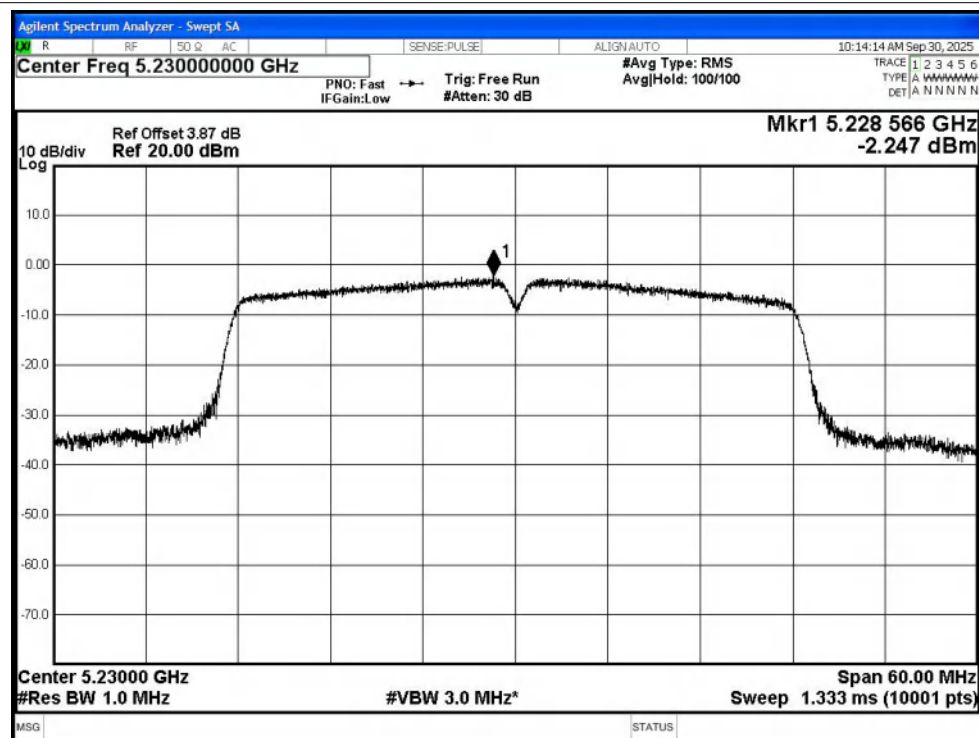
PSD NVNT ac20 5240MHz Ant1



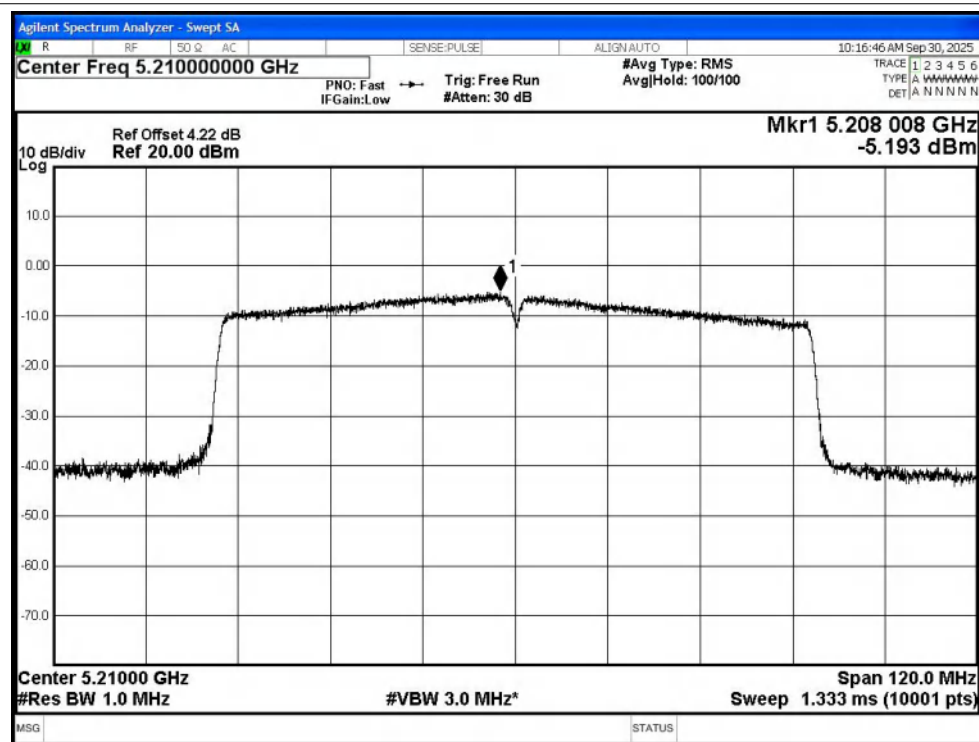
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1



4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-50.12	3.95	-	49.06	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.84	3.95	0.11	41.45	Average	54	Pass
NVNT	a	5180	Ant1	5149.6	-38.1	3.95	-	61.08	Peak	68.2	Pass
NVNT	a	5180	Ant1	5147.5	-50.84	3.95	0.11	48.45	Average	54	Pass
NVNT	a	5180	Ant1	5150	-37.58	3.95	-	61.6	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-50.79	3.95	0.11	48.5	Average	54	Pass
NVNT	a	5240	Ant1	5350	-47.31	3.95	-	51.87	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.32	3.95	0.11	41.97	Average	54	Pass
NVNT	a	5240	Ant1	5365.2	-46.1	3.95	-	53.08	Peak	68.2	Pass
NVNT	a	5240	Ant1	5414.88	-56.17	3.95	0.11	43.12	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.62	3.95	-	49.56	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-56.95	3.95	0.11	42.34	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.01	3.95	-	50.17	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.65	3.95	0.12	41.65	Average	54	Pass
NVNT	n20	5180	Ant1	5139.1	-37.76	3.95	-	61.42	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-51.7	3.95	0.12	47.6	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-38.77	3.95	-	60.41	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-50.38	3.95	0.12	48.92	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-47.29	3.95	-	51.89	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.94	3.95	0.12	42.36	Average	54	Pass
NVNT	n20	5240	Ant1	5453.04	-46.07	3.95	-	53.11	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5412.48	-56.28	3.95	0.12	43.02	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.64	3.95	-	49.54	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.59	3.95	0.12	41.71	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.24	3.95	-	48.94	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-58.27	3.95	0.12	41.03	Average	54	Pass
NVNT	n40	5190	Ant1	5148.97	-42.39	3.95	-	56.79	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-53.57	3.95	0.12	45.73	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-43.19	3.95	-	55.99	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-53.57	3.95	0.12	45.73	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-47.3	3.95	-	51.88	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.96	3.95	0.12	42.34	Average	54	Pass
NVNT	n40	5230	Ant1	5401.14	-46.16	3.95	-	53.02	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5394.12	-56.16	3.95	0.12	43.14	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.52	3.95	-	49.66	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-57.11	3.95	0.12	42.19	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-49.57	3.95	-	49.61	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-58.11	3.95	0.11	41.18	Average	54	Pass
NVNT	ac20	5180	Ant1	5149.6	-37.69	3.95	-	61.49	Peak	68.2	Pass

NVNT	ac20	5180	Ant1	5149.6	-50.26	3.95	0.11	49.03	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-35.25	3.95	-	63.93	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-50.42	3.95	0.11	48.87	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-49.29	3.95	-	49.89	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.35	3.95	0.11	41.94	Average	54	Pass
NVNT	ac20	5240	Ant1	5445.12	-45.97	3.95	-	53.21	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5386.56	-56.08	3.95	0.11	43.21	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-49.48	3.95	-	49.7	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-57.41	3.95	0.11	41.88	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-48.55	3.95	-	50.63	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-56.96	3.95	0.12	42.34	Average	54	Pass
NVNT	ac40	5190	Ant1	5143.13	-44.61	3.95	-	54.57	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5148.24	-53.81	3.95	0.12	45.49	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-45.8	3.95	-	53.38	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-54.48	3.95	0.12	44.82	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-48.59	3.95	-	50.59	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.77	3.95	0.12	42.53	Average	54	Pass
NVNT	ac40	5230	Ant1	5423.82	-44.94	3.95	-	54.24	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5391.69	-56.05	3.95	0.12	43.25	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.77	3.95	-	49.41	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-57.42	3.95	0.12	41.88	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-49.16	3.95	-	50.02	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-56.76	3.95	0.25	42.67	Average	54	Pass
NVNT	ac80	5210	Ant1	5387.4	-46.45	3.95	-	52.73	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5381.79	-55.94	3.95	0.25	43.49	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-48.06	3.95	-	51.12	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-56.9	3.95	0.25	42.53	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-49.61	3.95	-	49.57	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-57.57	3.95	0.25	41.86	Average	54	Pass
NVNT	ac80	5210	Ant1	5139.9	-42.31	3.95	-	56.87	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-51.8	3.95	0.25	47.63	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-44.36	3.95	-	54.82	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-52.18	3.95	0.25	47.25	Average	54	Pass

[illegible][illegible]

Restrict Band NVNT n20 5180MHz Ant1 Peak

Center Freq 4.850000000 GHz PNO: Fast IFGain: Low → Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 100/100

Ref Offset 4.16 dB
Ref 20.00 dBm

Mkr1 5.179 0 GHz
8.296 dBm

Start 4.5000 GHz Stop 5.2000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.200 ms (1001 pts)

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	5.179 0 GHz	-8.296 dBm			
2	N	f	4.500 0 GHz	-49.010 dBm			
3	N	f	5.150 0 GHz	-38.770 dBm			
4	N	f	5.139 1 GHz	-37.757 dBm			
5							
6							
7							
8							
9							
10							
11							

Agilent Spectrum Analyzer - Swept SA

R RF SO Q AC SENSE-PULSE ALIGN AUTO 09:54:26 AM Sep 30, 2025

Center Freq 4.850000000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg Hold: 100/100

TRACE [1 2 3 4 5 6] TYPE A WWWWMMW DET A NNNNN

The spectrum plot shows a frequency range from 4.500 GHz to 5.200 GHz. The vertical axis represents power in dBm, ranging from -70.0 to 10.0 dB/div Log. A significant signal peak is visible at 5.179 GHz, labeled as Mkr1 5.179 0 GHz with a power of 0.657 dBm. Another marker is present at 4.500 GHz.

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	5.179 0 GHz	0.657 dBm			
2	N	f	4.500 0 GHz	-57.653 dBm			
3	N	f	5.150 0 GHz	-50.378 dBm			
4	N	f	5.149 6 GHz	-51.701 dBm			
5							
6							
7							
8							
9							
10							
11							

Start 4.5000 GHz Stop 5.2000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.200 ms (1001 pts)

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.34000000 GHz

Ref Offset 3.8 dB
Ref 20.00 dBm

10 dB/div
Log

Start 5.2200 GHz
#Res BW 1.0 MHz

Stop 5.4600 GHz
Sweep 1.000 ms (1001 pts)

#VBW 3.0 MHz

Mkr1 5.241 60 GHz
8.232 dBm

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

Agilent Spectrum Analyzer - Swept SA

09:57:33 AM Sep 30, 2025

Center Freq 5.34000000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB

#Avg Type: RMS AvgHold: 100/100

TRACE 1 2 3 4 5 6
TYPE A W W W W W W W W
DET A N N N N N N

Ref Offset 3.8 dB
Ref 20.00 dBm

Mkr1 5.241 36 GHz
0.549 dBm

10 dB/div
Log

Start 5.2200 GHz Stop 5.4600 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.241 36 GHz	0.549 dBm			
2	N		f	5.350 00 GHz	-56.939 dBm			
3	N		f	5.460 00 GHz	-57.593 dBm			
4	N		f	5.412 48 GHz	-56.282 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.32500000 GHz

Ref Offset 3.87 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.232 39 GHz
-0.002 dBm

Start 5.1900 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.4600 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.232 39 GHz	-0.002 dBm			
2	N		f	5.350 00 GHz	-47.299 dBm			
3	N		f	5.460 00 GHz	-49.517 dBm			
4	N		f	5.401 14 GHz	-46.163 dBm			

Agilent Spectrum Analyzer - Swept SA

R	RF	SQ	AC		SENSE-PULSE	ALIGN-AUTO	10:09:07 AM Sep 30, 2025
---	----	----	----	--	-------------	------------	--------------------------

Center Freq 5.325000000 GHz

PNO: Fast IFGain:Low → Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 100/100

TRACE 1 2 3 4 5 6
TYPE A WWWWWW
DET A NNNNNN

Ref Offset 3.87 dB
Ref 20.00 dBm

Mkr1 5.227 80 GHz
-7.694 dBm

Start 5.1900 GHz Stop 5.4600 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)

MKR MODE	TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	5.227 80 GHz -7.694 dBm			
2	N	f	5.350 00 GHz -56.957 dBm			
3	N	f	5.460 00 GHz -57.114 dBm			
4	N	f	5.394 12 GHz -56.157 dBm			
5						
6						
7						
8						
9						
10						
11						

[illegible][illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.34000000 GHz

Ref Offset 3.8 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.242 56 GHz
7.566 dBm

Start 5.2200 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.4600 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.242 56 GHz	7.566 dBm			
2	N		f	5.350 00 GHz	-49.285 dBm			
3	N		f	5.460 00 GHz	-49.479 dBm			
4	N		f	5.445 12 GHz	-45.973 dBm			

[illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 4.865000000 GHz

Ref Offset 4.22 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.194 23 GHz
-0.019 dBm

Start 4.5000 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.2300 GHz
Sweep 1.267 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.194 23 GHz	-0.019 dBm			
2	N		f	4.500 00 GHz	-48.546 dBm			
3	N		f	5.150 00 GHz	-45.798 dBm			
4	N		f	5.143 13 GHz	-44.609 dBm			

[illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.32500000 GHz

Ref Offset 3.87 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.227 80 GHz
4.825 dBm

Start 5.1900 GHz
#Res BW 1.0 MHz

Stop 5.4600 GHz
Sweep 1.000 ms (1001 pts)

#VBW 3.0 MHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.227 80 GHz	4.825 dBm			
2	N		f	5.350 00 GHz	-48.586 dBm			
3	N		f	5.460 00 GHz	-49.765 dBm			
4	N		f	5.423 82 GHz	-44.938 dBm			

[illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.295000000 GHz

Ref Offset 4.22 dB
Ref 20.00 dBm

10 dB/div
Log

Start 5.1300 GHz
#Res BW 1.0 MHz

Stop 5.4600 GHz
Sweep 1.000 ms (1001 pts)

#Avg Type: RMS
Avg/Hold: 100/100

Trig: Free Run
#Atten: 30 dB

PN0: Fast
IFGain: Low

Mkr1 5.208 21 GHz
-2.748 dBm

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.208 21 GHz	-2.748 dBm			
2	N		f	5.350 00 GHz	-49.160 dBm			
3	N		f	5.460 00 GHz	-48.058 dBm			
4	N		f	5.387 40 GHz	-46.445 dBm			

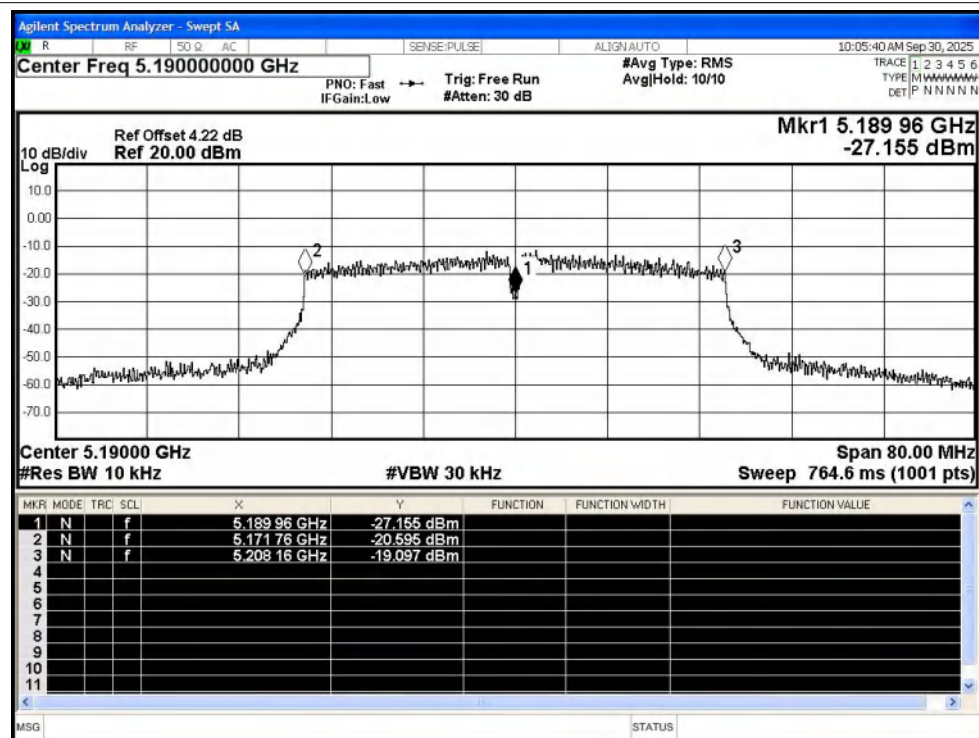
[illegible]

[illegible][illegible]

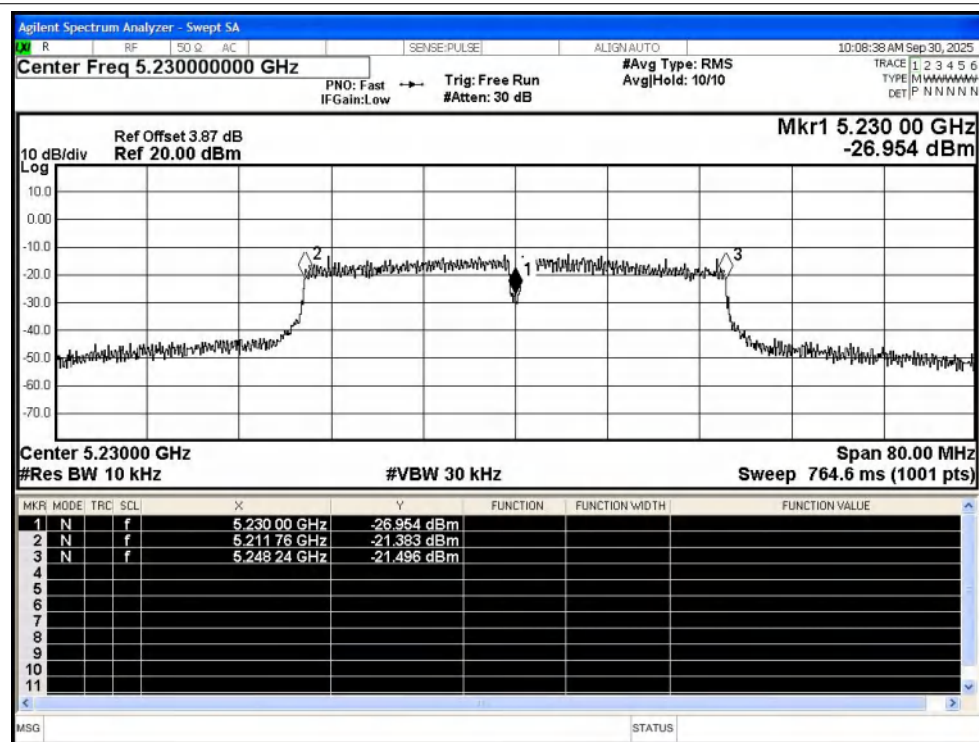
5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5200.02	20000	3.85	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5180	0	0	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5240	0	0	25	Pass
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
NVNT	ac20	5200	Ant1	5200	0	0	25	Pass
NVNT	ac20	5240	Ant1	5240	0	0	25	Pass
NVNT	ac40	5190	Ant1	5190	0	0	25	Pass
NVNT	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass

Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1



[illegible][illegible]

[illegible][illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.230000000 GHz

Ref Offset 3.87 dB
Ref 20.00 dBm

Mkr1 5.229 96 GHz
-27.239 dBm

10 dB/div
Log

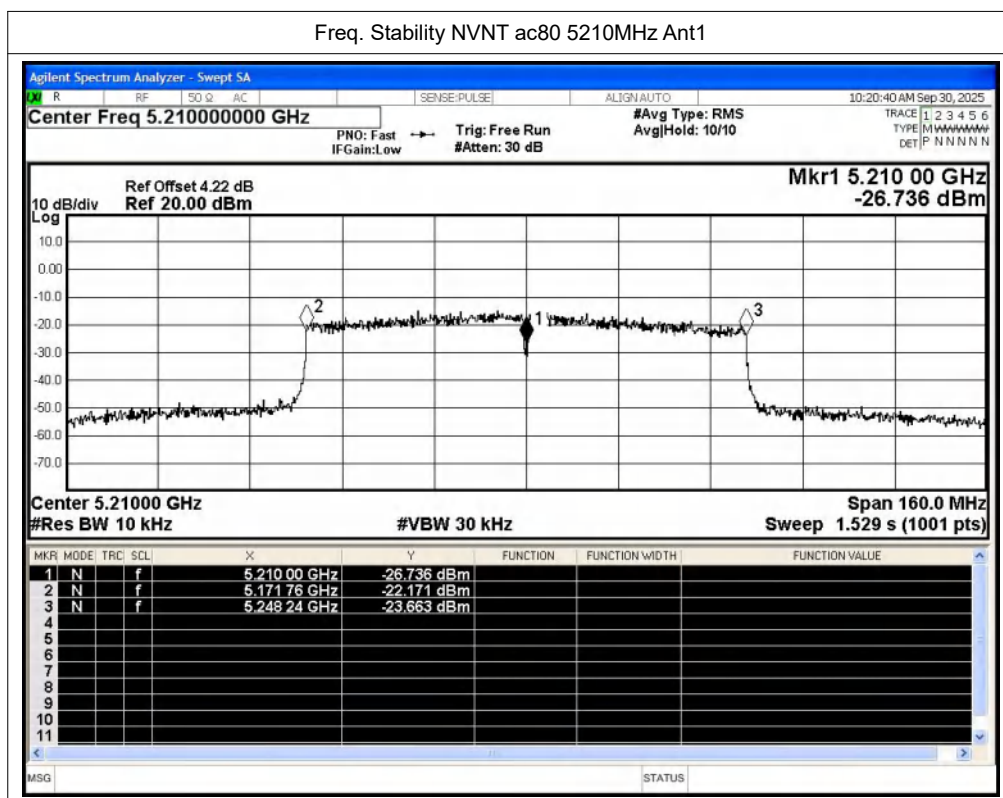
Center 5.23000 GHz
#Res BW 10 kHz

#VBW 30 kHz

Span 80.00 MHz
Sweep 764.6 ms (1001 pts)

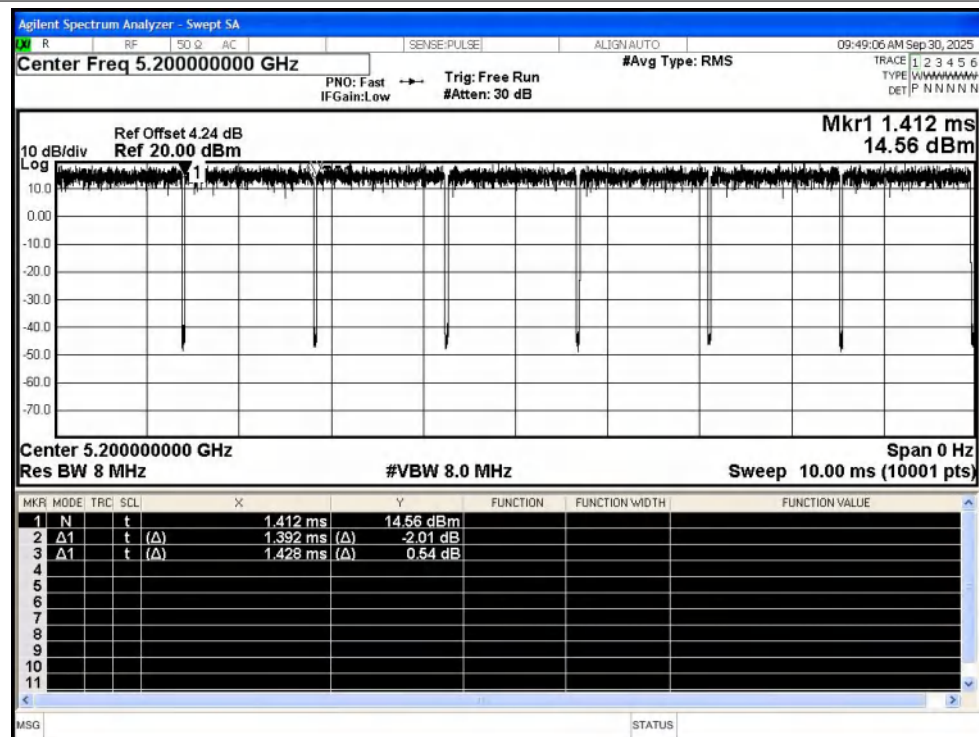
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.229 96 GHz	-27.239 dBm			
2	N		f	5.211 76 GHz	-21.896 dBm			
3	N		f	5.248 16 GHz	-19.474 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

[illegible]

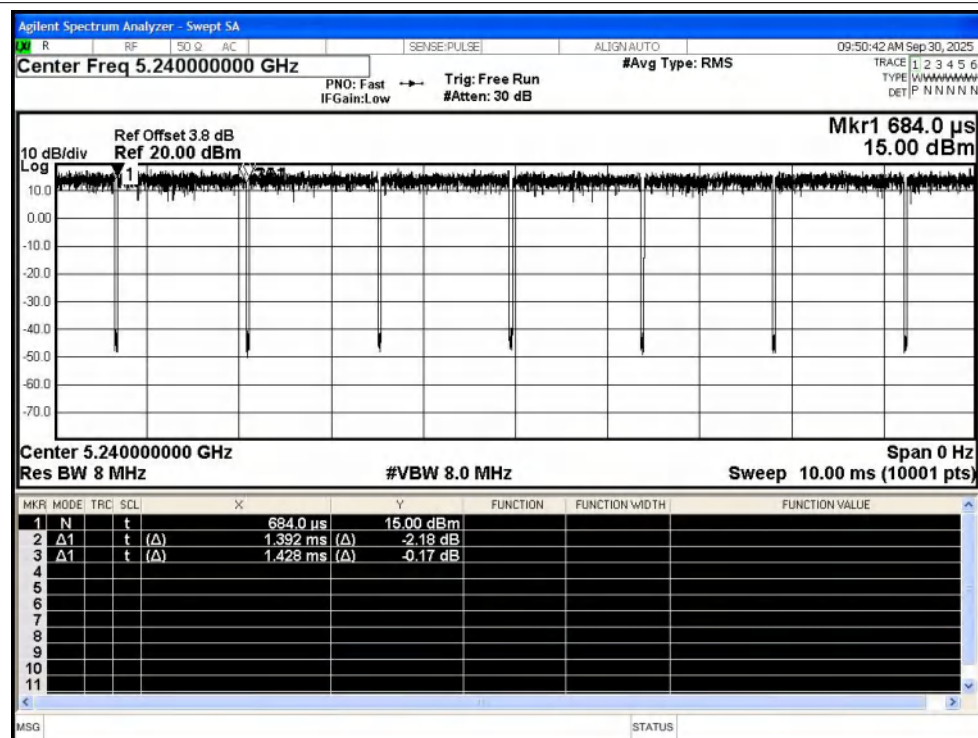


6 Duty Cycle

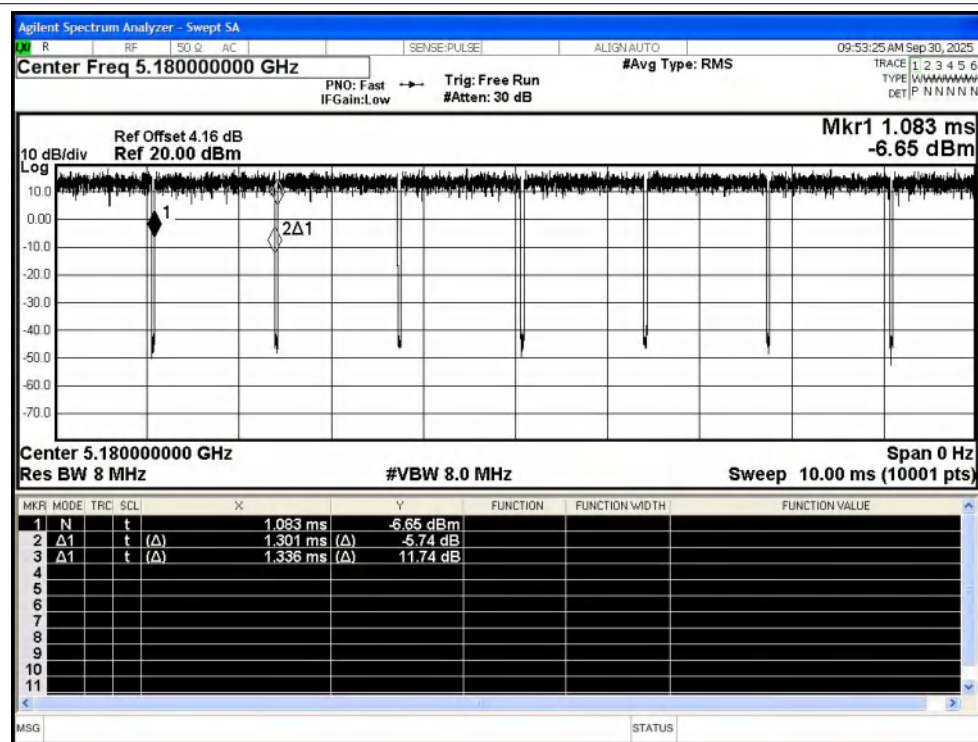
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.48	0.11	0.72
NVNT	a	5200	Ant1	97.48	0.11	0.72
NVNT	a	5240	Ant1	97.48	0.11	0.72
NVNT	n20	5180	Ant1	97.38	0.12	0.77
NVNT	n20	5200	Ant1	97.31	0.12	0.77
NVNT	n20	5240	Ant1	97.31	0.12	0.77
NVNT	n40	5190	Ant1	97.33	0.12	0.81
NVNT	n40	5230	Ant1	97.25	0.12	0.81
NVNT	ac20	5180	Ant1	97.39	0.11	0.76
NVNT	ac20	5200	Ant1	97.4	0.11	0.76
NVNT	ac20	5240	Ant1	97.4	0.11	0.76
NVNT	ac40	5190	Ant1	97.34	0.12	0.8
NVNT	ac40	5230	Ant1	97.26	0.12	0.8
NVNT	ac80	5210	Ant1	94.45	0.25	1.68



Duty Cycle NVNT a 5240MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



[illegible][illegible]

[illegible][illegible]

[illegible]

Duty Cycle NVNT ac20 5200MHz Ant1

Center Freq 5.200000000 GHz #Avg Type: RMS
PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB
Ref Offset 4.24 dB Ref 20.00 dBm
Mkr1 812.0 μs -21.97 dBm
Center 5.200000000 GHz Span 0 Hz
Res BW 8 MHz #VBW 8.0 MHz Sweep 10.00 ms (10001 pts)

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1 N	t		812.0 μs	-21.97 dBm			
2 Δ1	t	(Δ)	1.313 ms	25.84 dB			
3 Δ1	t	(Δ)	1.348 ms	21.12 dB			
4							
5							
6							
7							
8							
9							
10							
11							

[illegible][illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.230000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS

Ref Offset 3.87 dB Mkr1 300.0 μs
 Ref 20.00 dBm 4.19 dBm

10 dB/div Log

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	t		300.0 μs	4.19 dBm			
2	Δ1	t	(Δ)	1.244 ms	0.85 dB			
3	Δ1	t	(Δ)	1.279 ms	-0.01 dB			
4								
5								
6								
7								
8								
9								
10								
11								

Center 5.230000000 GHz Span 0 Hz
 Res BW 8 MHz #VBW 8.0 MHz Sweep 10.00 ms (10001 pts)

[illegible]