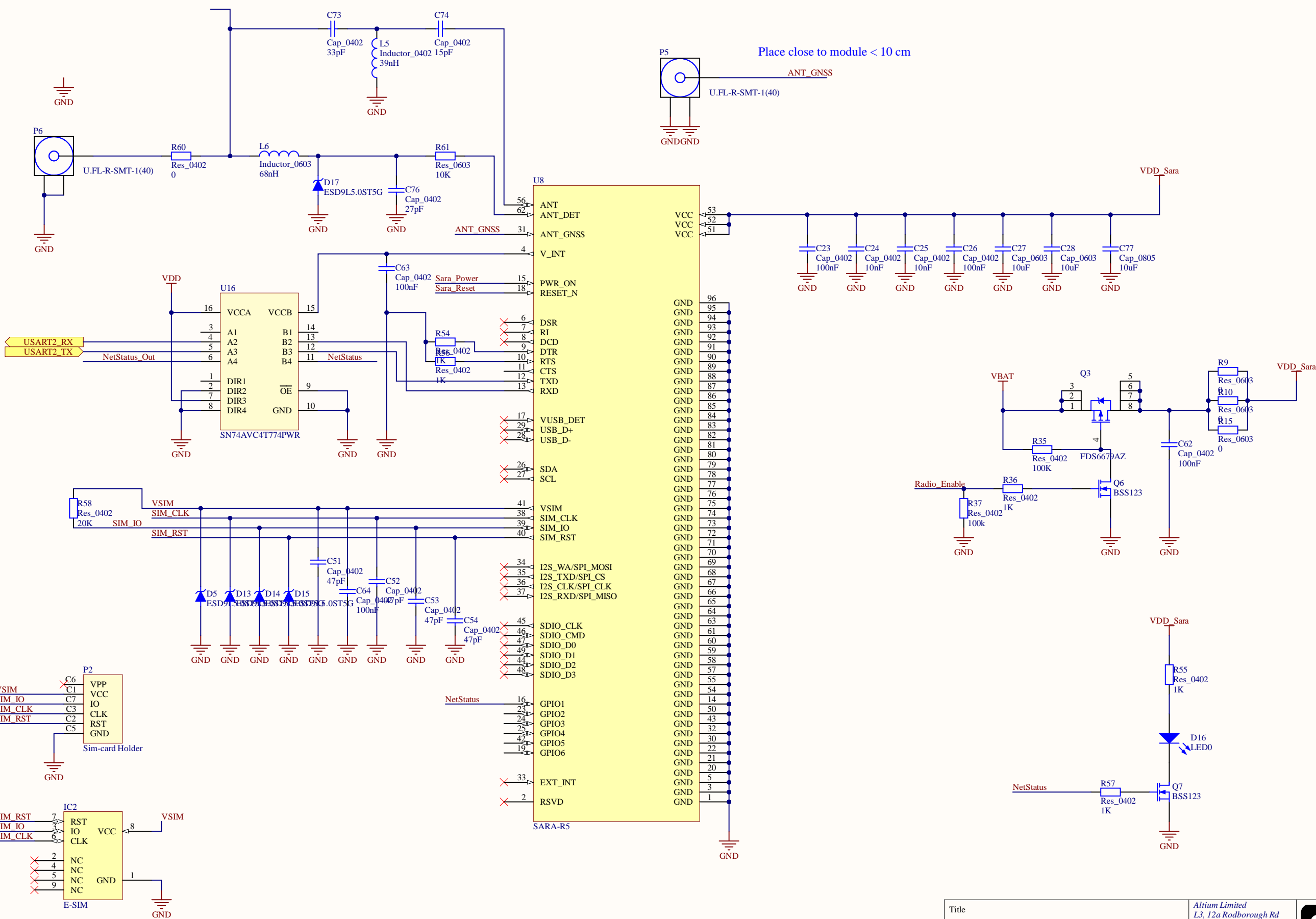
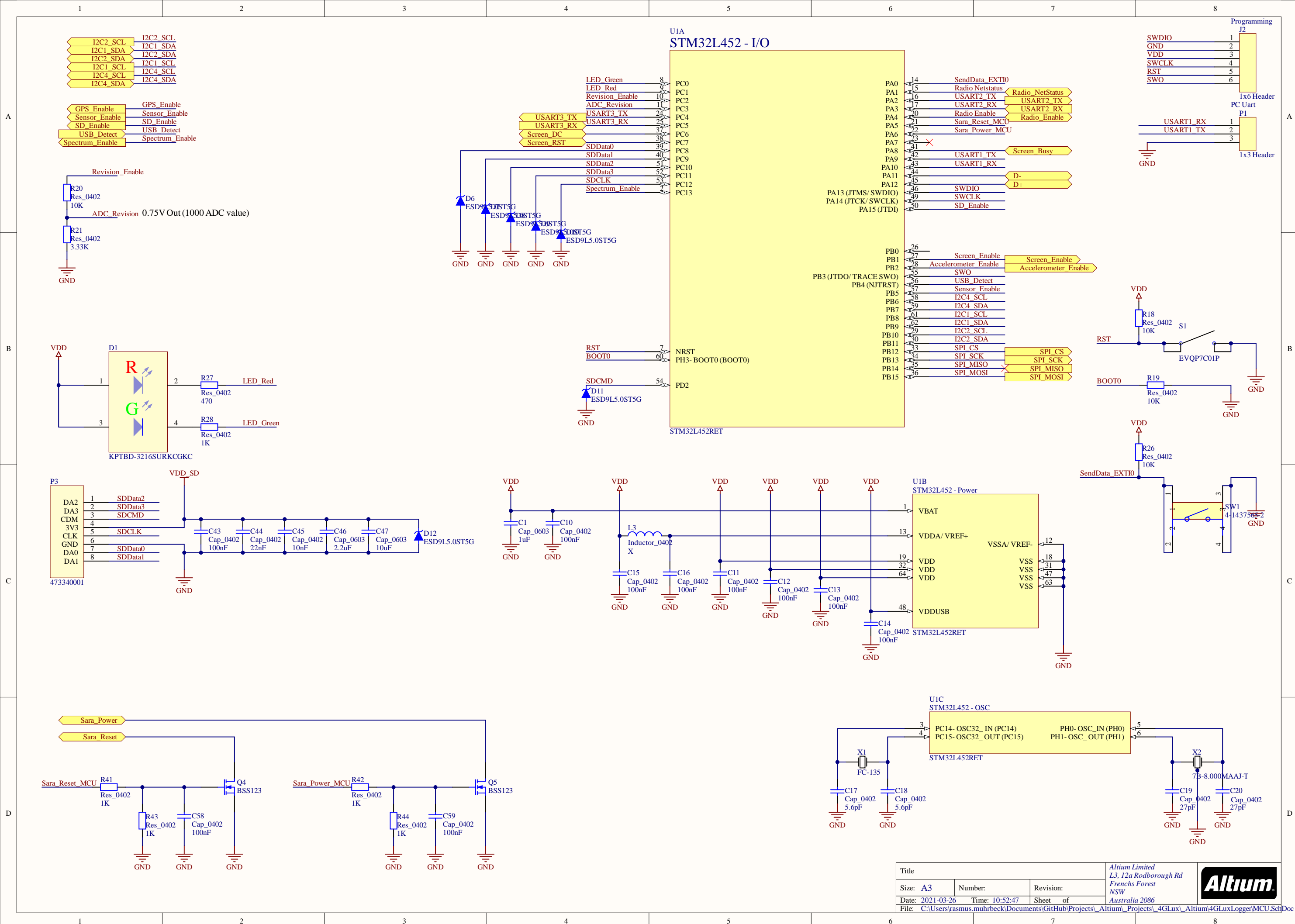
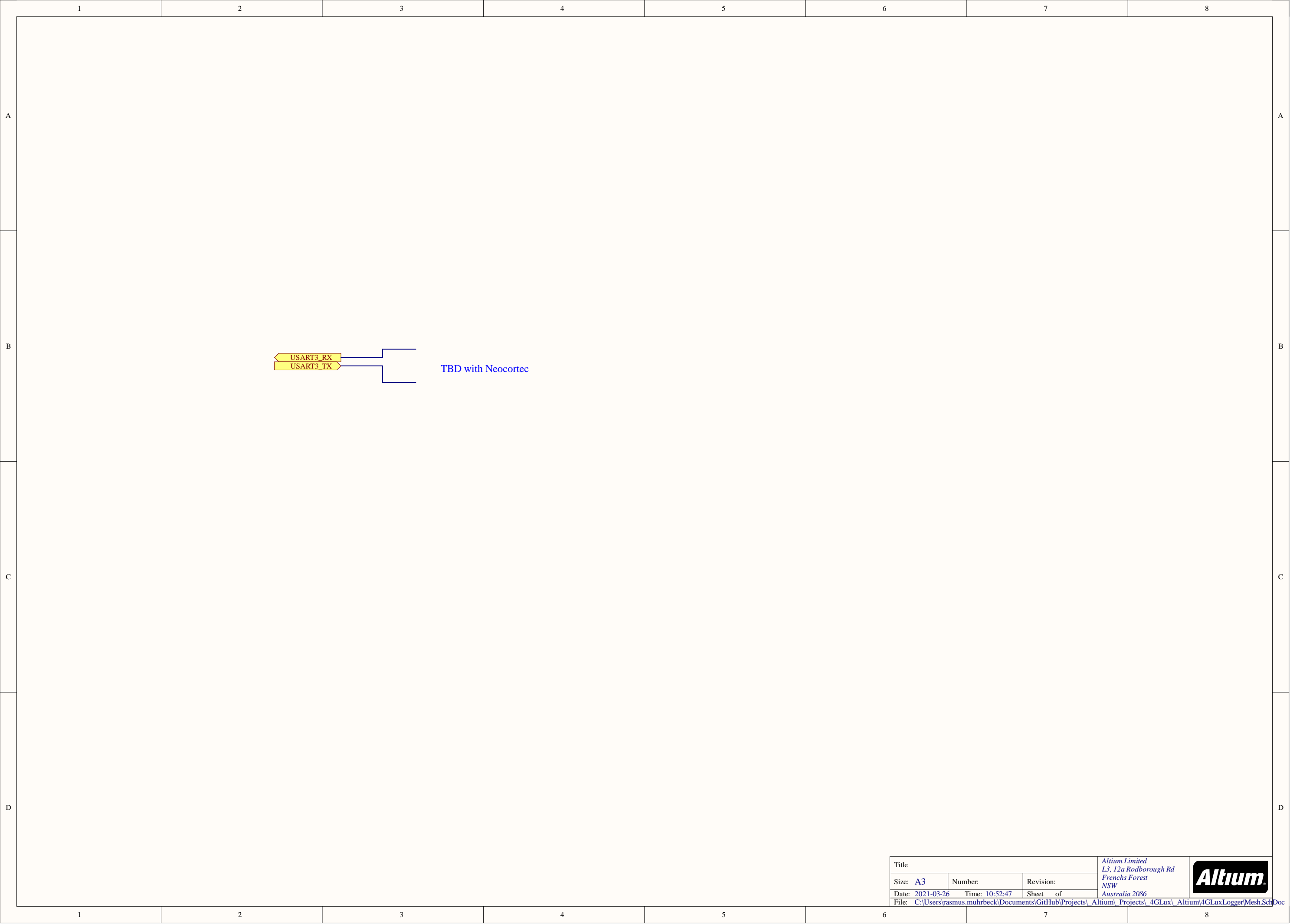
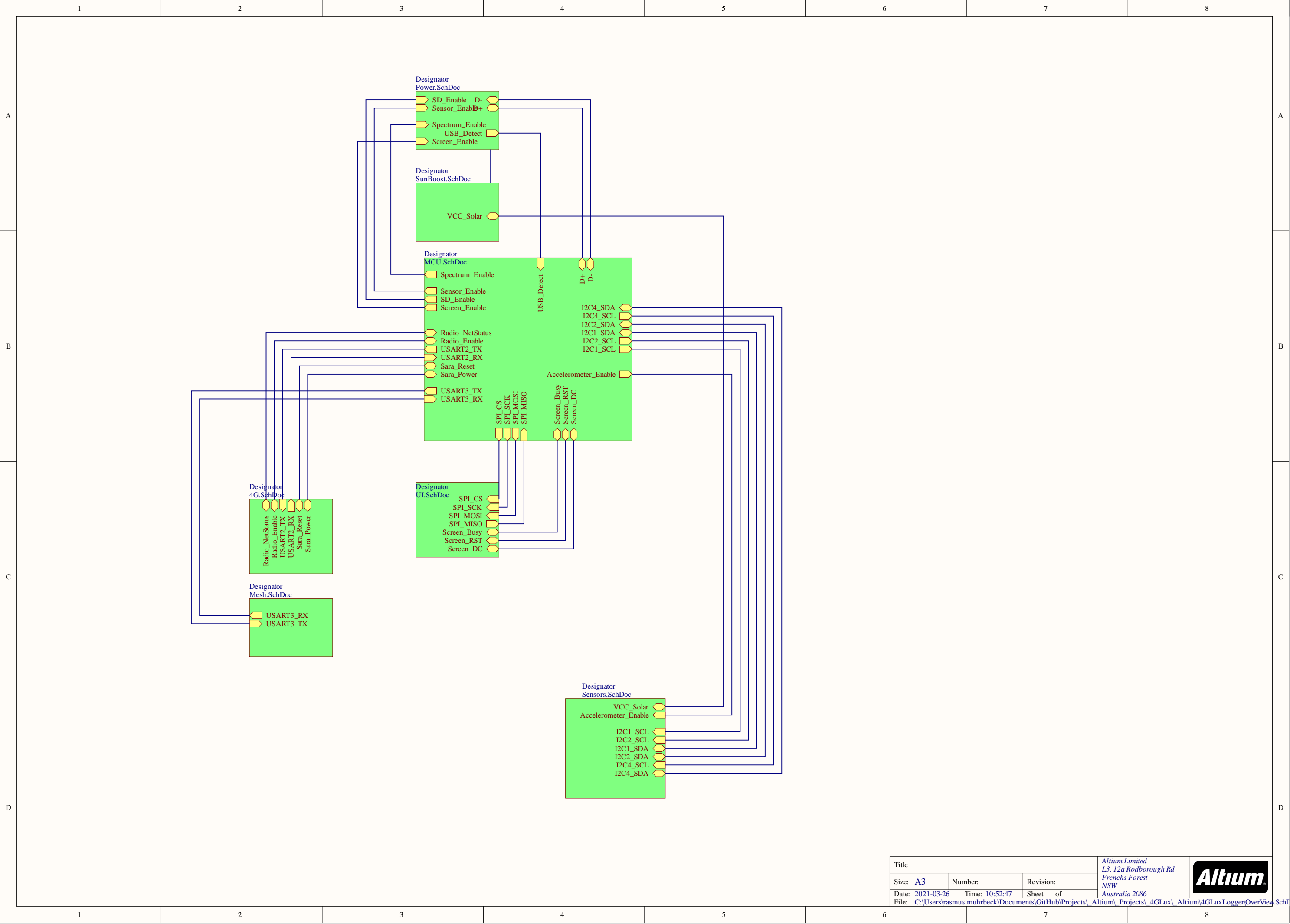


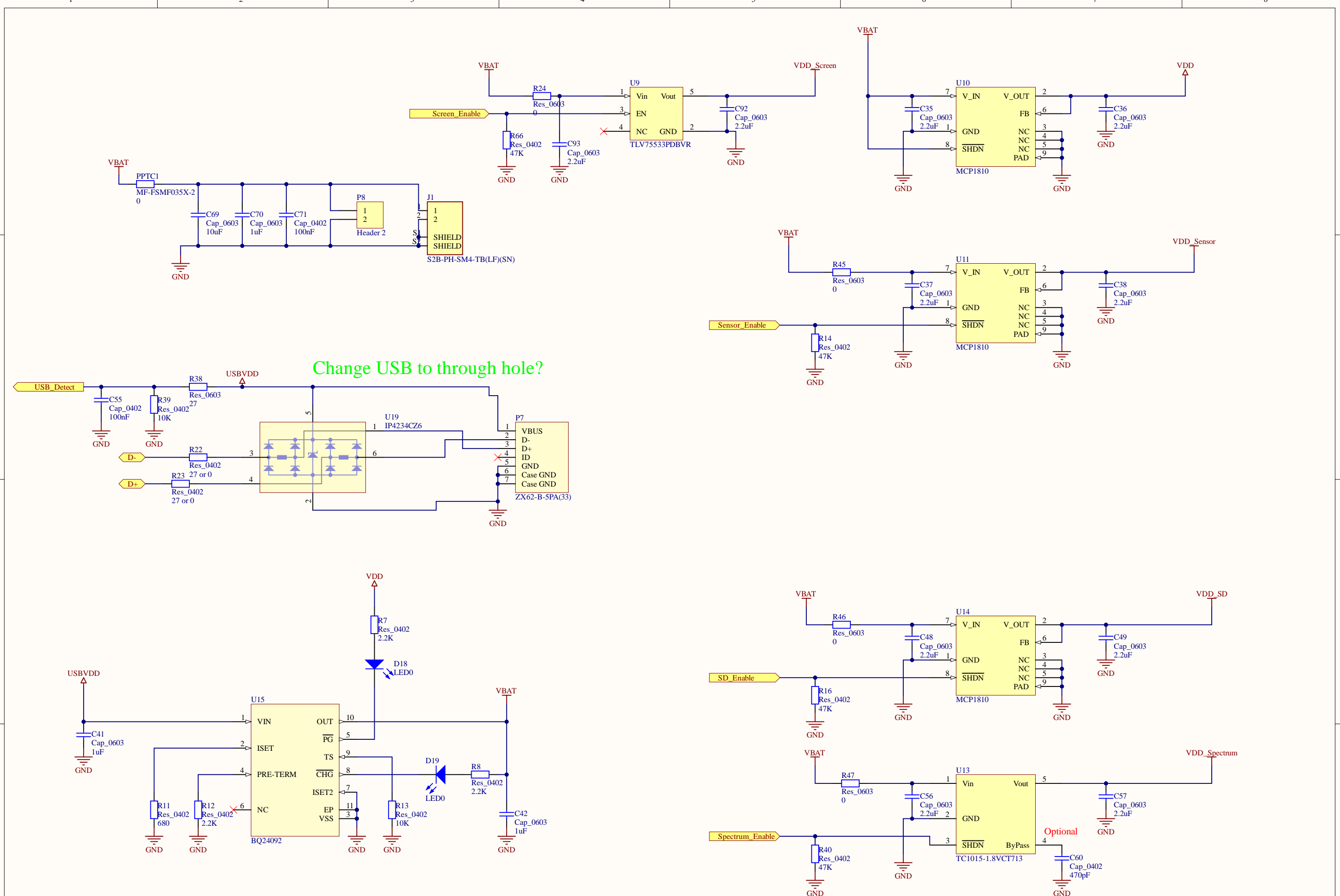
Radio_Enable
Radio_NetStatus
Sara_Power
Sara_Reset

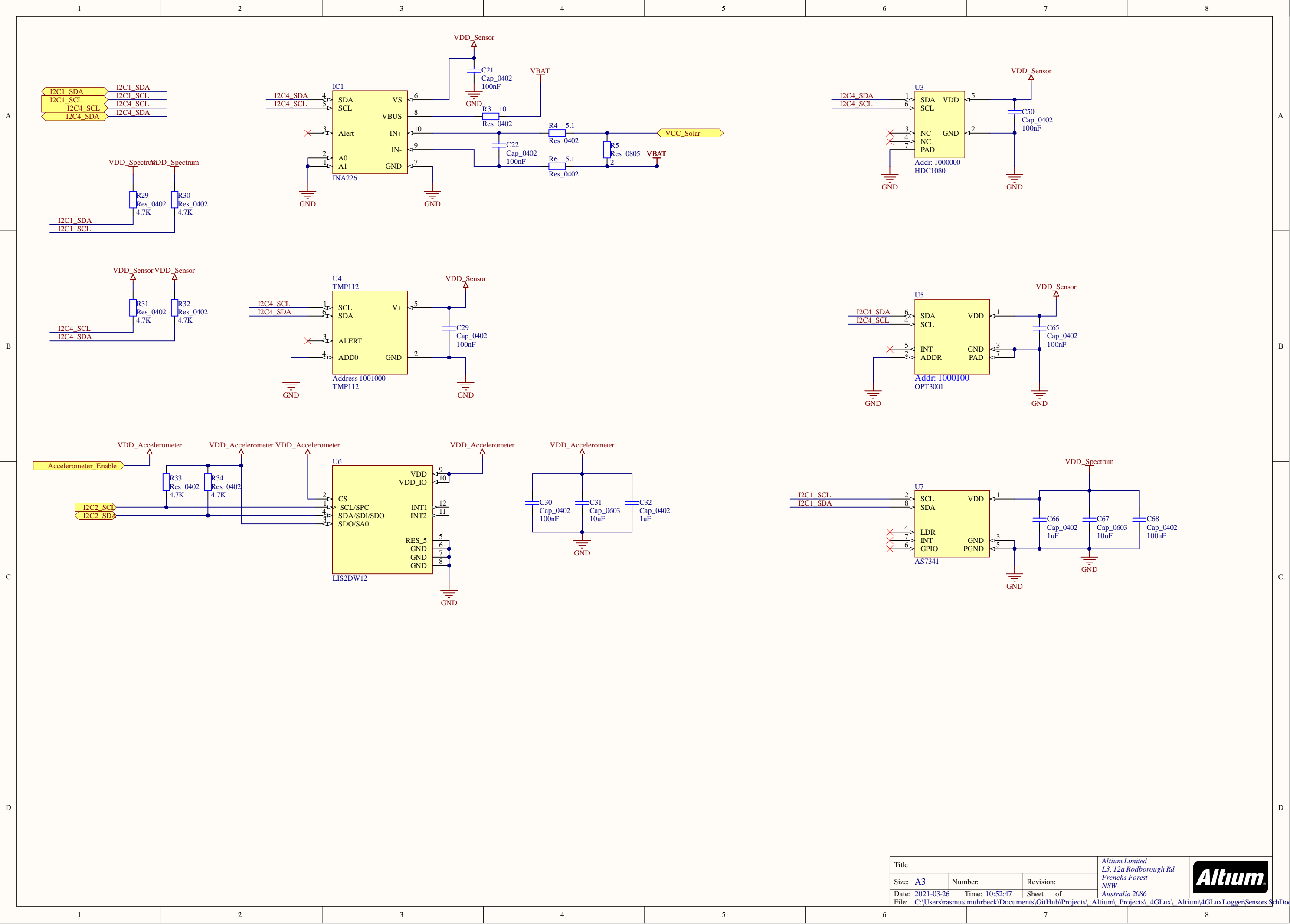


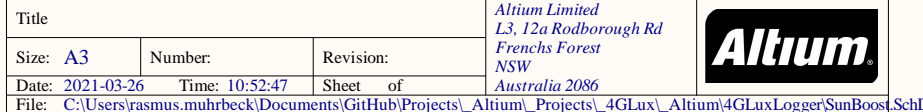


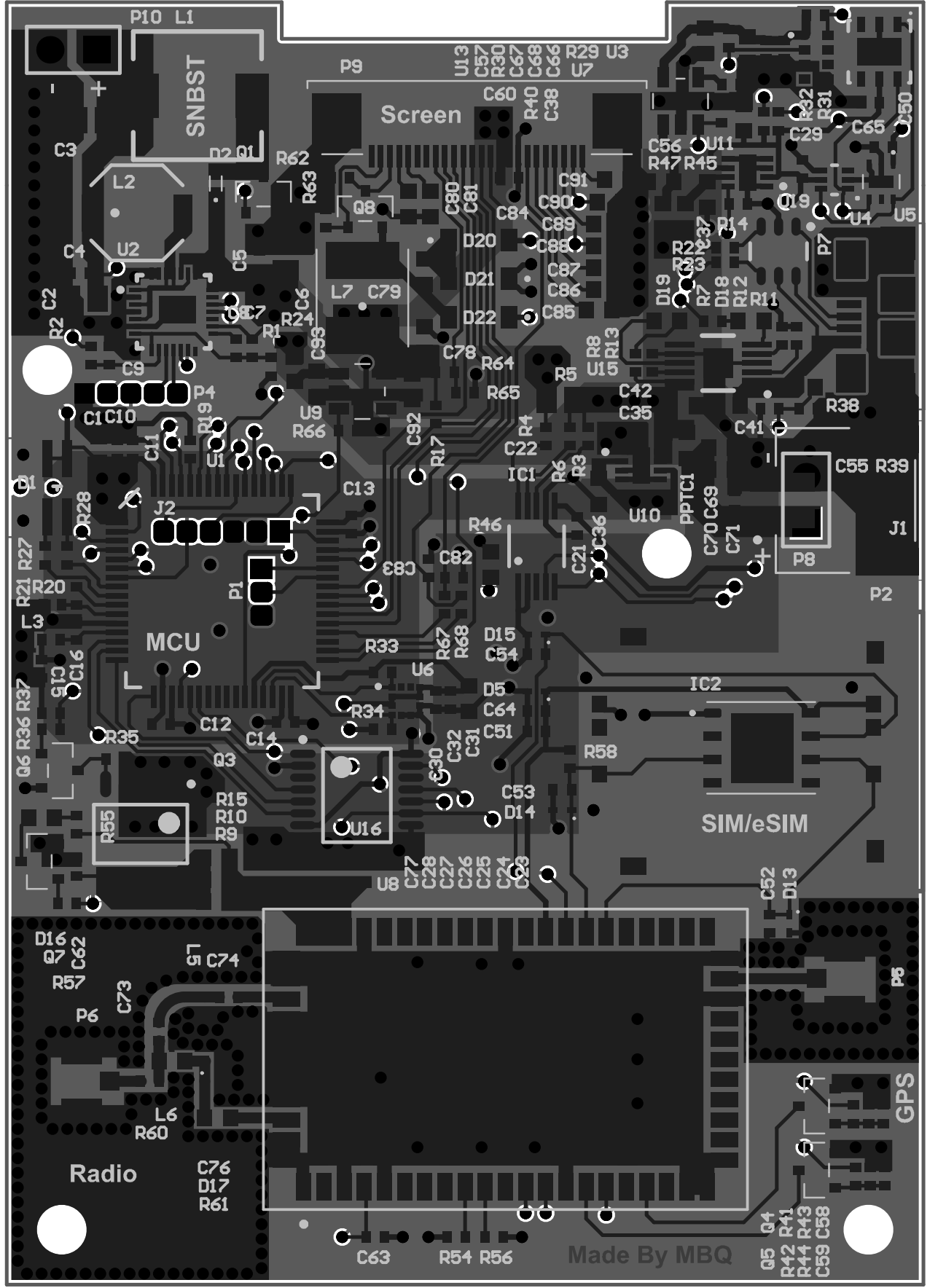


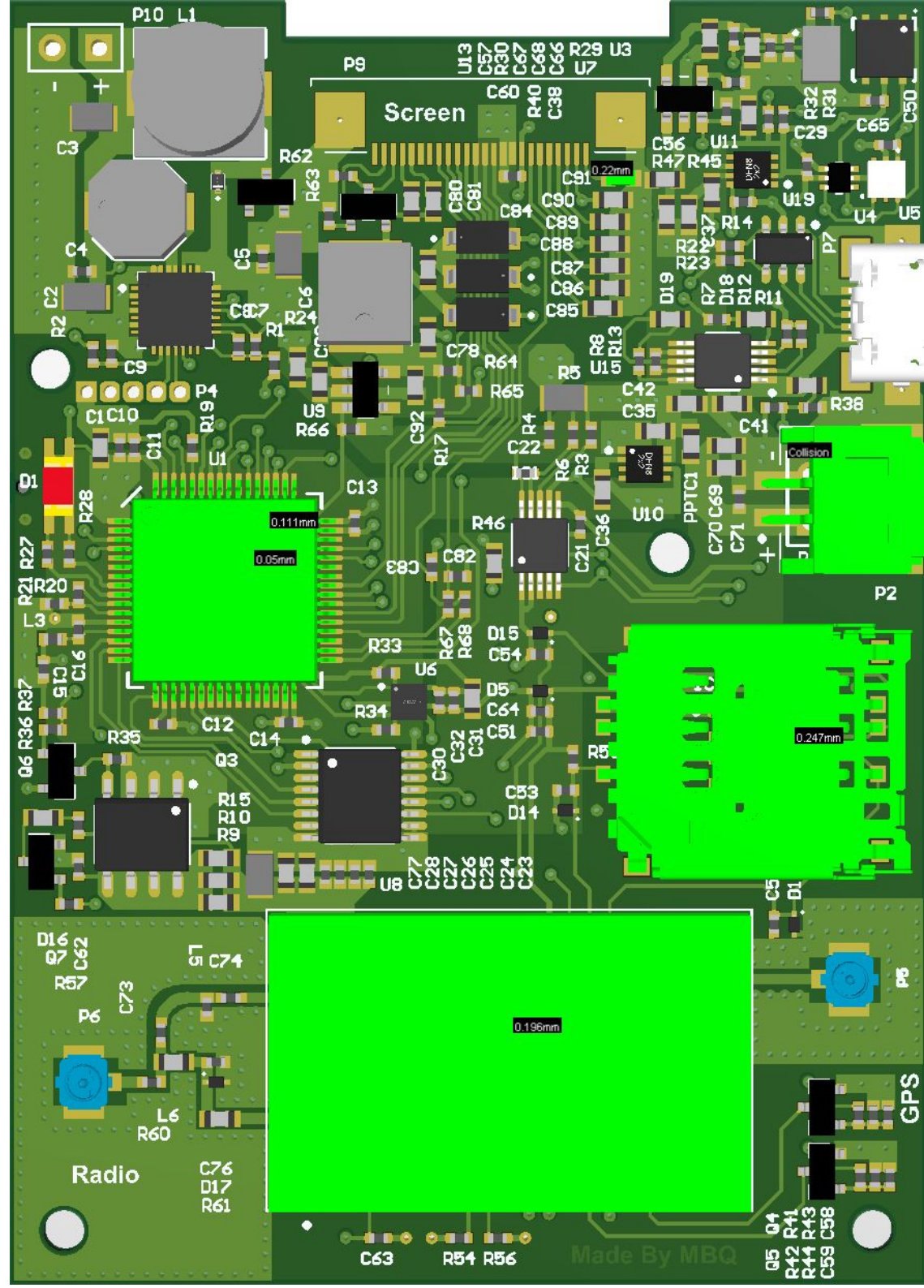












Comment	Description	Designator	Footprint	LibRef	Quantity
Cap_0603	Capacitor	C1, C27, C28, C31, C35, C36, C37, C38, C41, C42, C46, C47, C48, C49, C56, C57, C67, C69, C70, C78, C79, C80, C81, C85, C86, C87, C88, C89, C90, C91, C92, C93	0603	Cap_0603	32
Cap_0805	Capacitor	C2, C3, C6, C77	0805	Cap_0805	4
Cap_0402	Capacitor	C4, C5, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C29, C30, C32, C43, C44, C45, C50, C51, C52, C53, C54, C55, C58, C59, C60, C62, C63, C64, C65, C66, C68, C71, C73, C74, C76, C82, C83, C84	0402	Cap_0402	50
KPTBD-3216SURKCGKC	Dual Led Red/Green	D1	1206_DualLED	KPTBD-3216SURKCGKC	1
NSR0140P2	Typical INFRARED GaAs LED	D2	SOD-923	NSR0140P2	1
ESD9L5-05T5G	TVS_ESD9L5-05T5G	D6, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D17	SODFL100X40-2N	ESD9L5-05T5G	12
LED0	Typical INFRARED GaAs LED	D16, D18, D19	0603	LED0	3
MBR0530	SCHOTTKY BARRIER RECTIFIER	D20, D21, D22	SOD-123	MBR0530	3
INA226	Bi-Directional Current and Power Monitor	IC1	VSSOP-10	INA226	1
E-SIM	E-Sim	IC2	MMF2-ESIM	E-SIM	1
S2B-PH-SM4-TB(LF)(SN)	PH Series 2 Position 2 mm Pitch Surface Mount Side Entry Shrouded Header	J1	JST_S2B-PH-SM4-TB(LF)(SN)	S2B-PH-SM4-TB(LF)(SN)	1
1x6 Header	1x6 Header	J2	1x6 Header 1.27	1x6 Header	1
SRR7045-102M	Inductor	L1	SRR7045-102M	SRR7045-102M	1
SD53-4R7-R	Inductor	L2	SD53-4R7-R	SD53-4R7-R	1
Inductor_0402	Inductor	L3, L5	0402	Inductor_0402	2
Inductor_0603	Inductor	L6	0603	Inductor_0603	1
VLS5045EX-480M-H	Inductor 48uH	L7	VLS5045EX	VLS5045EX-480M-H	1
1x3 Header	1x3 Header	P1	1x3 Header 1.27	1x3 Header	1
Sim-card Holder	788000001_Molex	P2	Sim-card Holder	Sim-card Holder	1
473340001	SD Micro Card Holder	P3	473340001	SD Micro Card Holder	1
1x5 Header	1x5 Header	P4	1x5 Header 1.27	1x5 Header	1
U11-R-SMT-1(40)	RF-Connector	P5, P6	U11-R-SMT-1(40)	RF-Connector	2
ZX62-B-SPA(33)	USB Connector	P7	ZX62-B-SPA(33)	ZX62-B-SPA(33)	1
Header 2	Header, 2-Pin	P8, P10	HDR1X2	Header 2	2
Header 24	Header, 24-Pin	P9	Flex_Elnc_Connector	Header 24	1
MF-FSMF035X-2	PPTC_0603	PPTC1	0603	MF-FSMF035X-2	1
PMV130ENE	N-Channel MOSFET	Q1	SOT-23	PMV130ENE	1
FD56679AZ	Transistor, FET	Q3	SOIC127P600X175-8N	FD56679AZ	1
BSS123	N-Channel MOSFET	Q4, Q5, Q6, Q7	SOT-23	BSS123	4
SI1308EDL	N-Channel MOSFET	Q8	SOT-23	SI1308EDL	1
Res_0402	Resistor	R1, R2, R3, R4, R6, R7, R8, R11, R12, R13, R14, R16, R17, R18, R19, R20, R21, R22, R23, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R39, R40, R41, R42, R43, R44, R54, R55, R56, R57, R58, R60, R62, R63, R64, R65, R66, R67, R68	0402	Res_0402	50
Res_0805	Resistor	R5	0805	Res_0805	1
Res_0603	Resistor	R9, R10, R15, R24, R38, R45, R46, R47, R61	0603	Res_0603	9
EVQP7C01P	EVQP7C01P Switch	S1	EVQP7C	EVQP7C01P	1
4-1437565-2	Switch Tactile OFF (ON) SPST Round Button Gull Wing 0.05A 12VDC 1.57N SMD 1/R	SW1	SW_4-1437565-2	4-1437565-2	1
STM32L452RET	MCU	U1	LQFP64	STM32L452RET	1
Sunboost 3	Initiation Sunboost 3	U2	28-QFN_0.4mm	Sunboost 3	1
HDC1080	Humidity Sensor	U3	PSON96P300X80_HS	HDC1080	1
TMP112	Temperature measurement unit	U4	SOT563 (6)	TMP112	1
OPT3001	Lux sensor	U5	USON-6	OPT3001	1
UIS20W12	Accelerometer X, Y, Z Axis ±2g, ±g, ±g, ±16g 0.5Hz ~ 672Hz 12-LGA 2x2	U6	LGA-12	UIS20W12	1
AS7341	Spectrum Sensor	U7	OLGA-8	AS7341	1
SARA-R5	Sara-R5	U8	SARA-XX	SARA-R5	1
TLV75533PDBVR	3.3V regulator	U9	SOT-23 (5)	TLV75533PDBVR	1
MCP1810	3V Regulator, 150mA	U10, U11, U14	VDF-N8	MCP1810	3
TC1015-1.8VCT713	1.8V Regulator	U13	SOT-23 (5)	TC1015-1.8VCT713	1
BQ24092	Battery Charger	U15	HVSSOP-10	BQ24092	1
SN74AVC41774PWR	Buffer	U16	TSOP65P40X120-16N	SN74AVC41774PWR	1
IP4234CZ6	USB Line Protection	U19	TSOP95P280X110_145-7N	IP4234CZ6	1
FC-135	FC-135	X1	FC-135	Oscillator 32.768KHz	1
7B-8.000MAAJ-T	7B-8.000MAAJ-T	X2	Oscillator	Oscillator 8MHz	1