

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU011625\
 Data File : VU062808.D
 Acq On : 16 Jan 2025 10:31
 Operator : MD/SY
 Sample : Q1072-18
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GCQA0

Quant Time: Jan 16 22:03:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR010225WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jan 16 22:02:47 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.239	114	95618	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	88668	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	47233	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	26172	4.942	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.800%
7) Chloroethane-d5	1.904	69	20252	4.754	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.000%
11) 1,1-Dichloroethene-d2	2.557	65	12726	4.639	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.800%
20) 2-Butanone-d5	4.605	46	52681	48.673	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.340%
24) Chloroform-d	5.049	84	62291	4.781	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.600%
26) 1,2-Dichloroethane-d4	5.692	65	35528	5.027	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.600%
32) Benzene-d6	5.718	84	108755	5.018	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.400%
36) 1,2-Dichloropropane-d6	6.679	67	30313	5.044	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.800%
41) Toluene-d8	7.888	98	102607	4.859	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.200%
43) trans-1,3-Dichloroprop...	8.171	79	14991	5.004	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.000%
46) 2-Hexanone-d5	8.621	63	45199	47.975	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.960%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	24592	4.886	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.800%
66) 1,2-Dichlorobenzene-d4	12.184	152	40255	5.123	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.400%

Target Compounds					Qvalue	
5) Vinyl chloride	1.599	62	219786	31.930	ug/L	99
12) 1,1-Dichloroethene	2.570	96	65118	10.970	ug/L	86
16) Methylene chloride	3.033	84	67507	10.382	ug/L	98
18) trans-1,2-Dichloroethene	3.342	96	52370	8.235	ug/L	94
22) cis-1,2-Dichloroethene	4.653	96	77845	11.241	ug/L	97
27) 1,2-Dichloroethane	5.782	62	122851	13.427	ug/L	98
29) 1,1,1-Trichloroethane	5.303	97	226498	16.840	ug/L	99
31) Carbon tetrachloride	5.512	117	93487	7.563	ug/L	97
33) Benzene	5.763	78	373414	14.658	ug/L	100
34) Trichloroethene	6.531	95	29934	3.440	ug/L	96
37) 1,2-Dichloropropane	6.779	63	95613	15.910	ug/L	100
42) Toluene	7.959	91	316192	11.327	ug/L	99
45) 1,1,2-Trichloroethane	8.390	97	23444	4.803	ug/L	98
47) Tetrachloroethene	8.544	164	96381	16.080	ug/L	97
51) Chlorobenzene	9.438	112	228044	12.492	ug/L	99
52) Ethylbenzene	9.560	91	529481	16.714	ug/L	97
53) m,p-Xylene	9.682	106	233495	19.708	ug/L	100
54) o-Xylene	10.090	106	86349	7.609	ug/L	96
55) Styrene	10.107	104	141805	7.470	ug/L	99

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Jan 16 22:02:47 2025
Response via : Initial Calibration

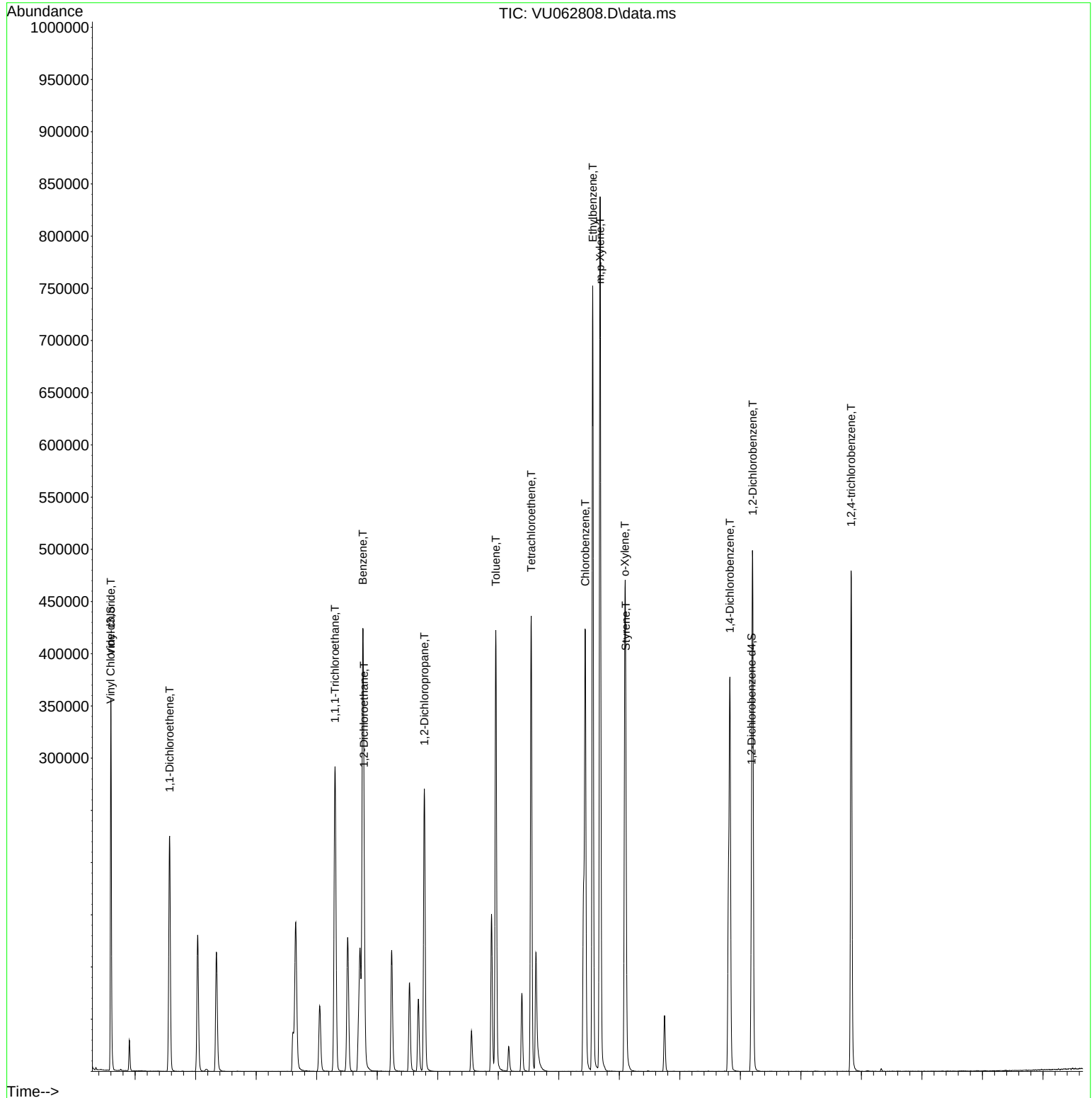
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.827	146	148993	9.792	ug/L	99
67) 1,2-Dichlorobenzene	12.203	146	193713	13.697	ug/L	99
70) 1,2,4-trichlorobenzene	13.830	180	152940	16.709	ug/L	99

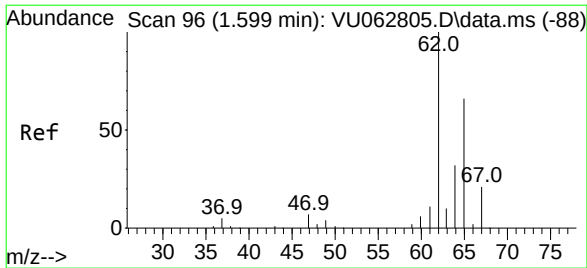
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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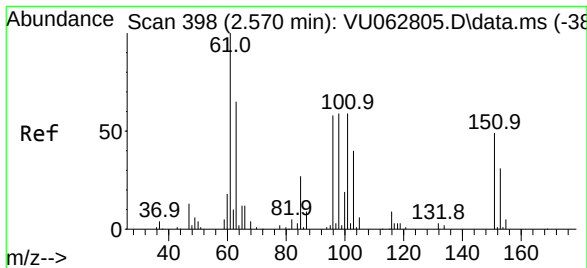
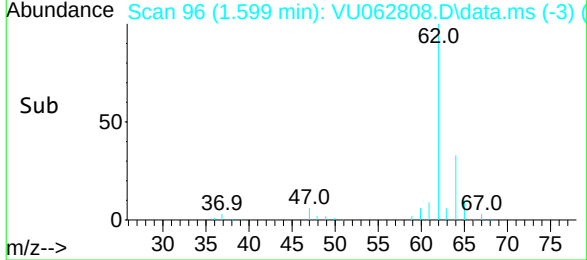
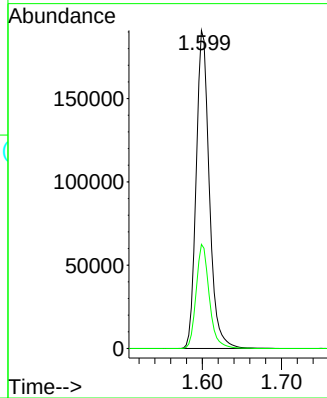
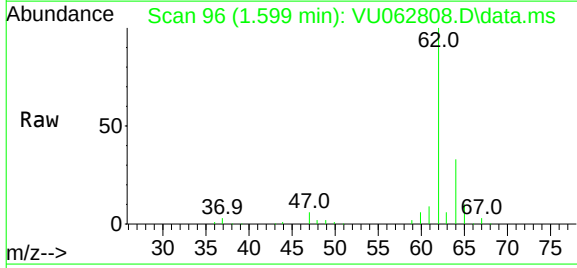




#5
 Vinyl chloride
 Concen: 31.930 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

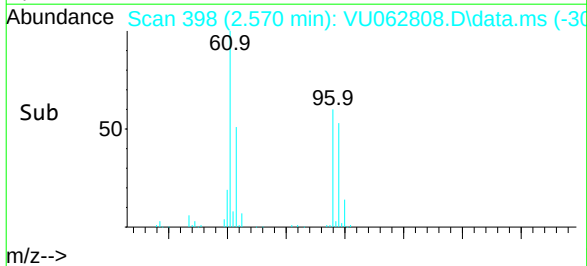
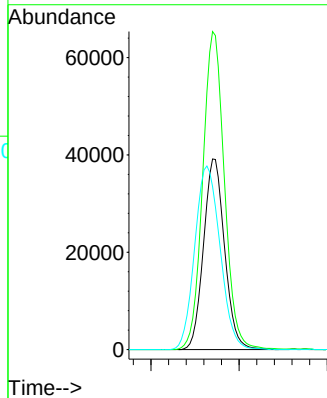
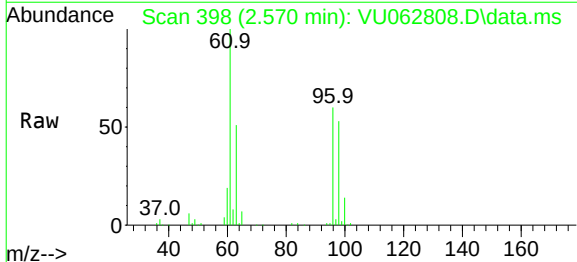
Instrument :
 MSVOA_U
 ClientSampleId :
 GCQA0

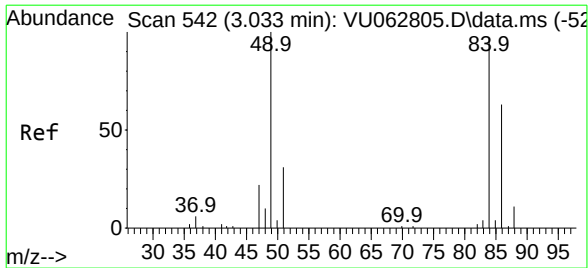
Tgt Ion: 62 Resp: 219786
 Ion Ratio Lower Upper
 62 100
 64 32.7 23.4 43.4



#12
 1,1-Dichloroethene
 Concen: 10.970 ug/L
 RT: 2.570 min Scan# 398
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

Tgt Ion: 96 Resp: 65118
 Ion Ratio Lower Upper
 96 100
 61 166.9 120.4 223.6
 63 85.5 82.3 152.9

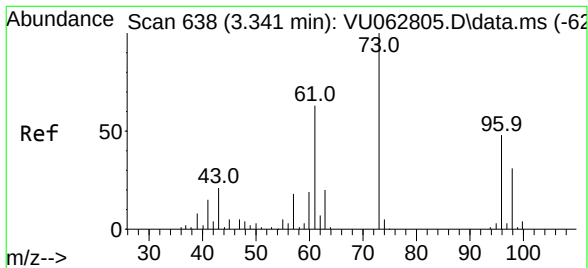
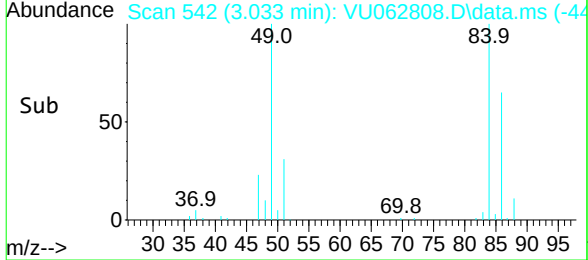
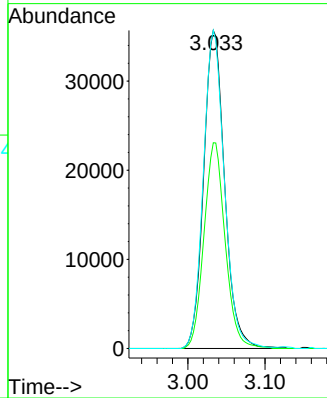
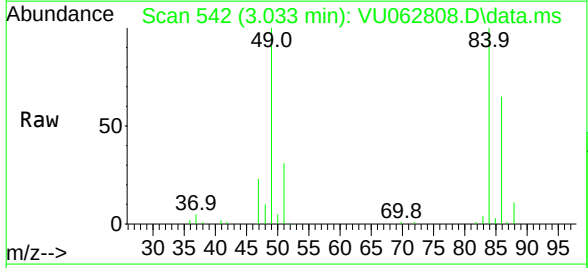




#16
Methylene chloride
Concen: 10.382 ug/L
RT: 3.033 min Scan# 541
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

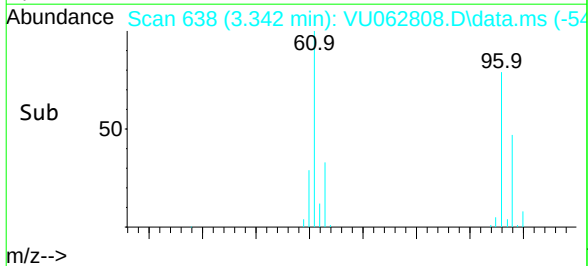
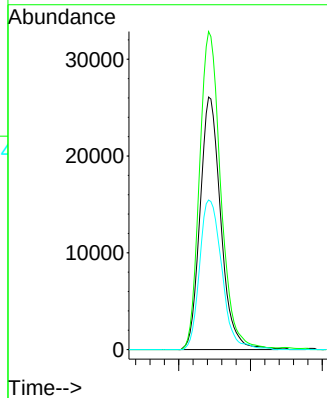
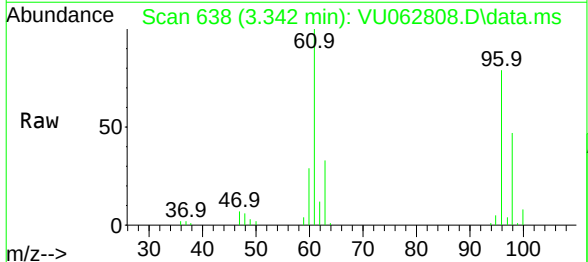
Instrument :
MSVOA_U
ClientSampleId :
GCQA0

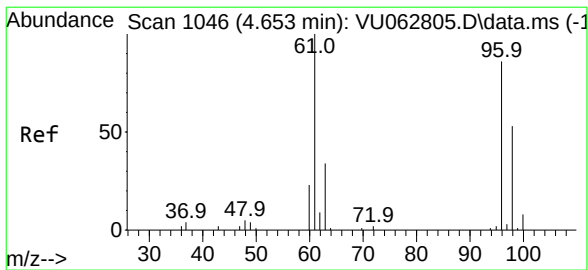
Tgt Ion: 84 Resp: 67507
Ion Ratio Lower Upper
84 100
86 64.7 44.7 83.1
49 100.0 68.3 126.9



#18
trans-1,2-Dichloroethene
Concen: 8.235 ug/L
RT: 3.342 min Scan# 638
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Tgt Ion: 96 Resp: 52370
Ion Ratio Lower Upper
96 100
61 125.9 94.4 175.2
98 59.2 42.8 79.4

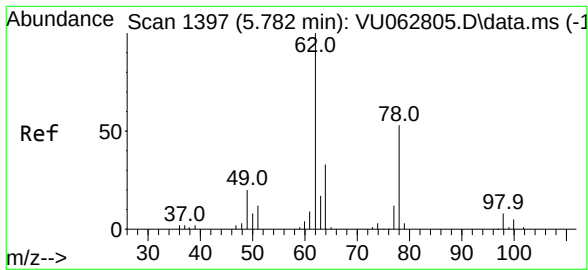
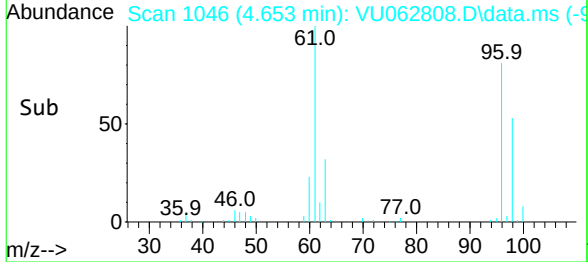
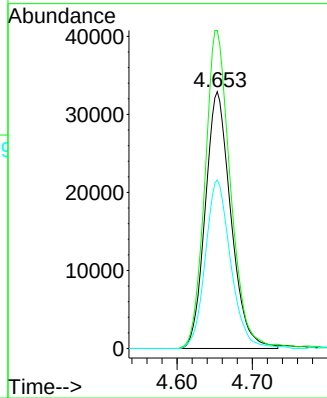
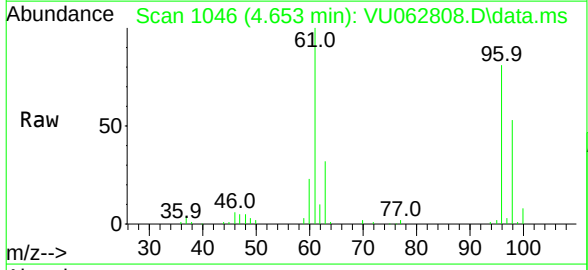




#22
 cis-1,2-Dichloroethene
 Concen: 11.241 ug/L
 RT: 4.653 min Scan# 1046
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

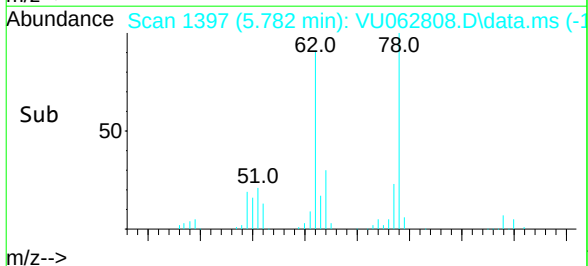
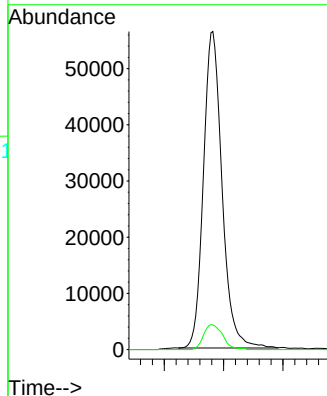
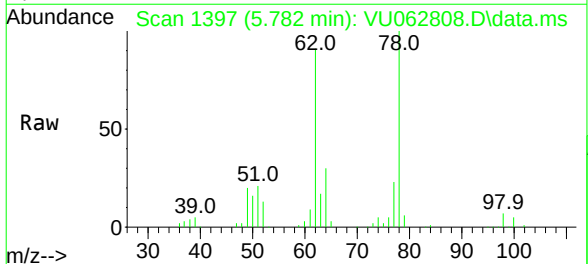
Instrument :
 MSVOA_U
 ClientSampleId :
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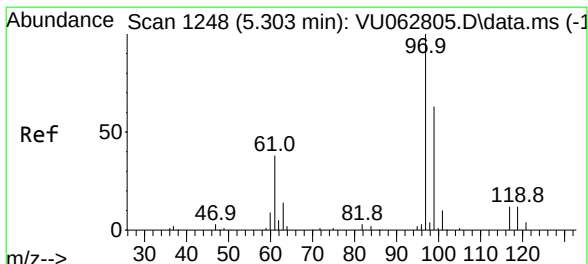
Tgt Ion:	96	Resp:	77845
Ion	Ratio	Lower	Upper
96	100		
61	123.8	84.8	157.6
98	65.6	43.1	80.1



#27
 1,2-Dichloroethane
 Concen: 13.427 ug/L
 RT: 5.782 min Scan# 1397
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

Tgt Ion:	62	Resp:	122851
Ion	Ratio	Lower	Upper
62	100		
98	7.8	5.8	8.6



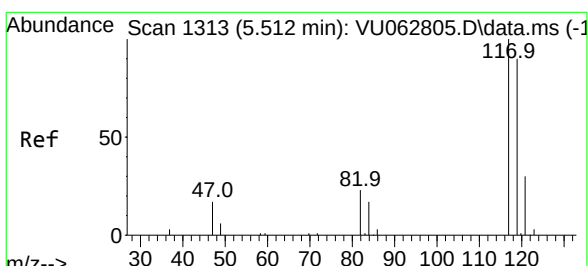
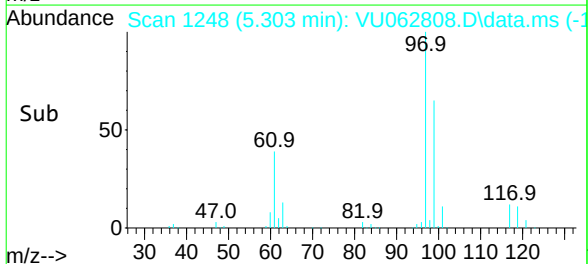
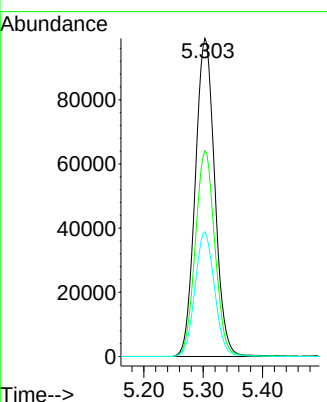
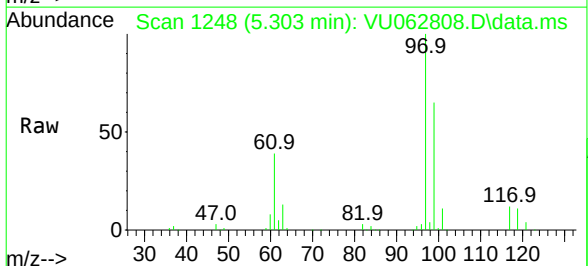


#29
 1,1,1-Trichloroethane
 Concen: 16.840 ug/L
 RT: 5.303 min Scan# 1248
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 GCQA0

Tgt Ion: 97 Resp: 226498

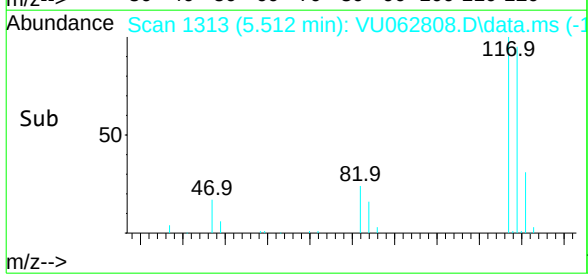
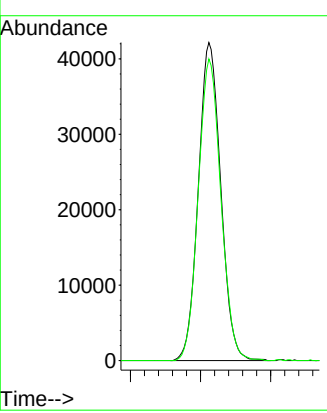
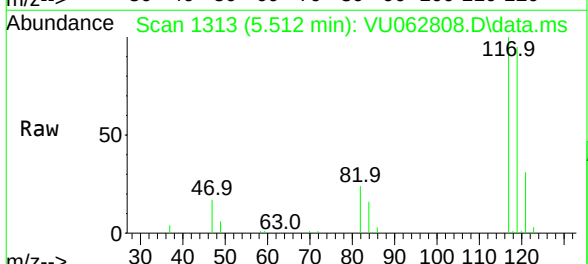
Ion	Ratio	Lower	Upper
97	100		
99	64.7	52.4	78.6
61	39.2	32.2	48.4

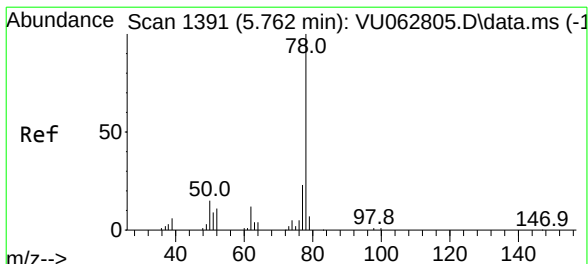


#31
 Carbon tetrachloride
 Concen: 7.563 ug/L
 RT: 5.512 min Scan# 1313
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

Tgt Ion: 117 Resp: 93487

Ion	Ratio	Lower	Upper
117	100		
119	95.8	78.6	118.0

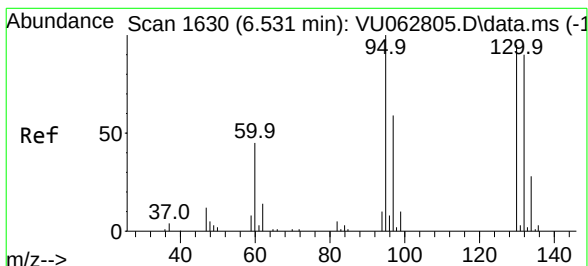
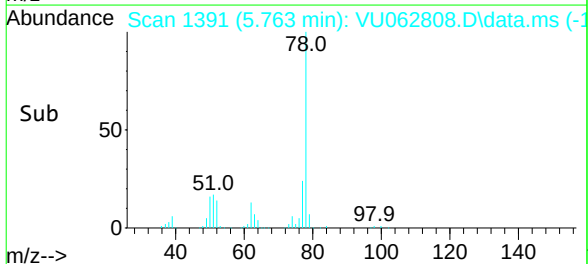
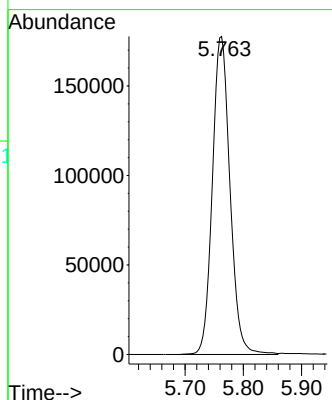
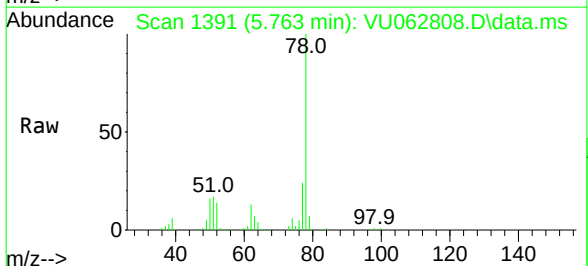




#33
Benzene
Concen: 14.658 ug/L
RT: 5.763 min Scan# 1391
Delta R.T. 0.000 min
Lab File: VU062808.D
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Instrument : MSVOA_U
ClientSampleId : GCQA0

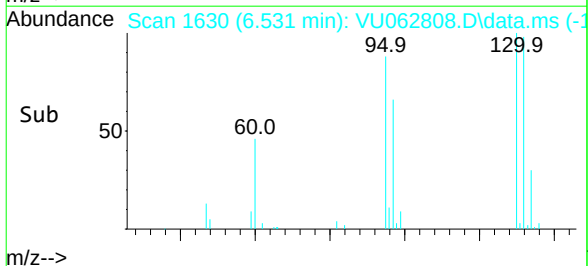
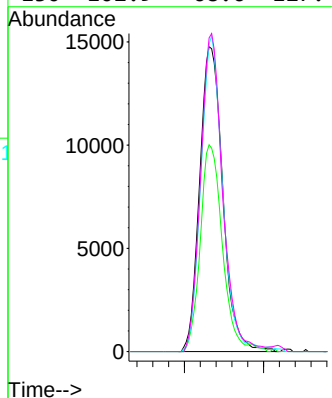
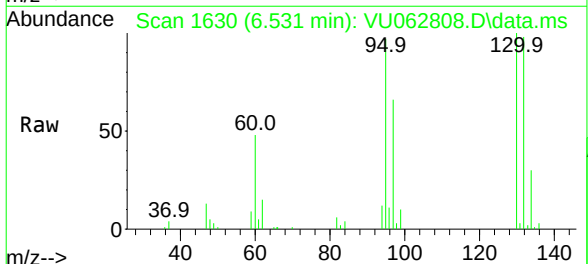
Tgt Ion: 78 Resp: 373414

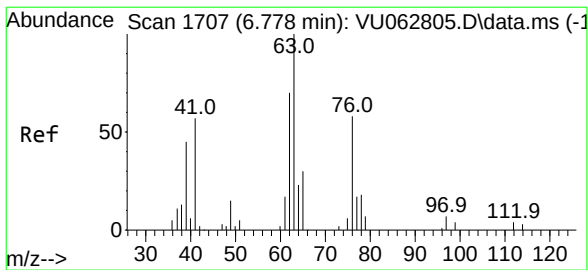


#34
Trichloroethene
Concen: 3.440 ug/L
RT: 6.531 min Scan# 1630
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Tgt Ion: 95 Resp: 29934

Ion	Ratio	Lower	Upper
95	100		
97	67.8	47.5	88.3
132	100.8	66.9	124.3
130	102.9	68.6	127.4

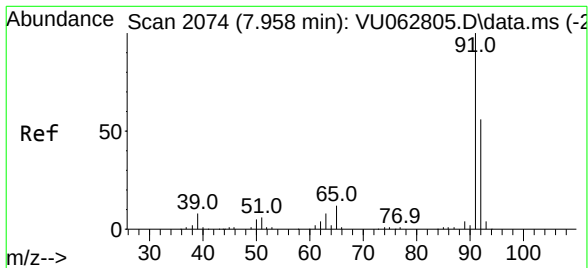
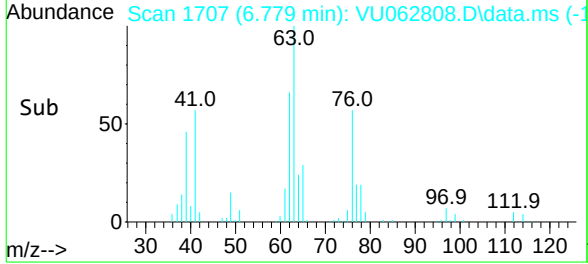
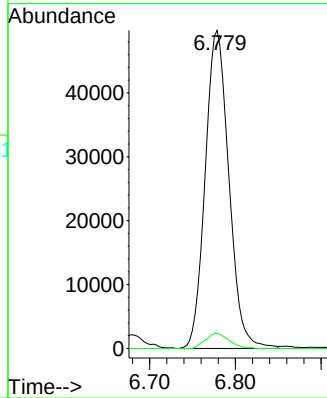
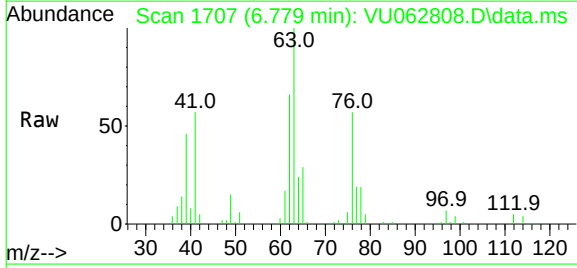




#37
1,2-Dichloropropane
Concen: 15.910 ug/L
RT: 6.779 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

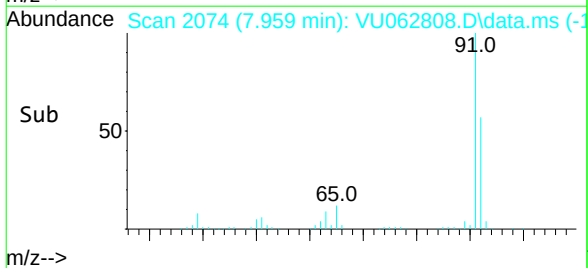
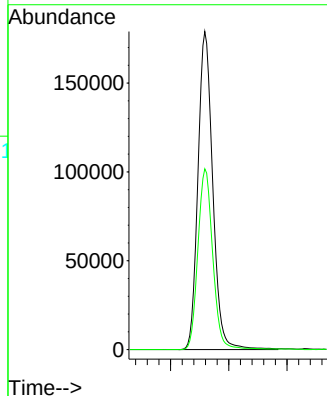
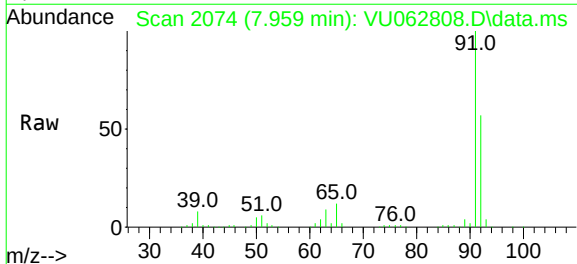
Instrument :
MSVOA_U
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GCQA0

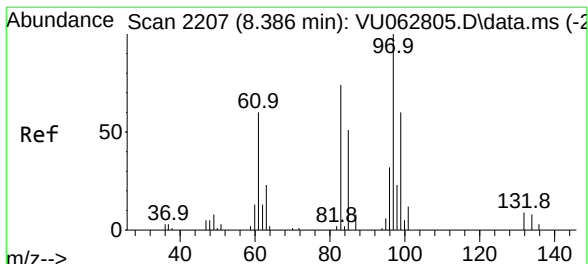
Tgt Ion: 63 Resp: 95613
Ion Ratio Lower Upper
63 100
112 4.8 3.8 5.8



#42
Toluene
Concen: 11.327 ug/L
RT: 7.959 min Scan# 2074
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

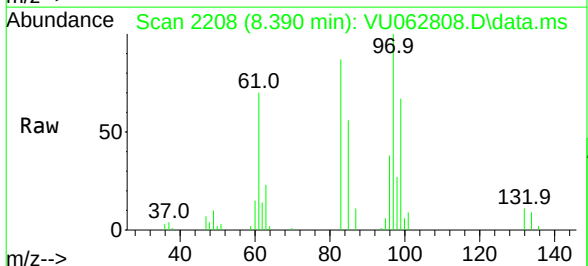
Tgt Ion: 91 Resp: 316192
Ion Ratio Lower Upper
91 100
92 56.8 40.4 75.0



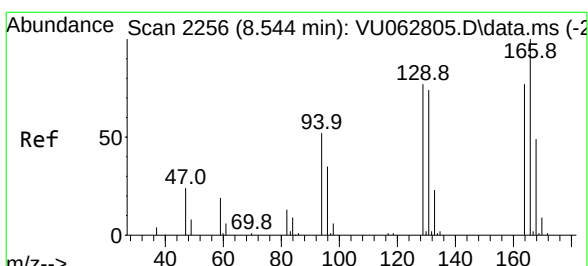
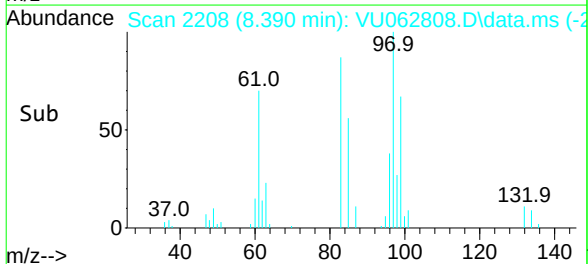
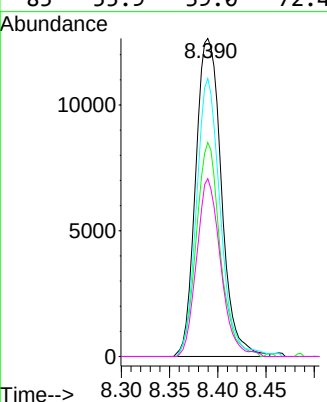


#45
 1,1,2-Trichloroethane
 Concen: 4.803 ug/L
 RT: 8.390 min Scan# 2208
 Delta R.T. 0.003 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 GCQA0

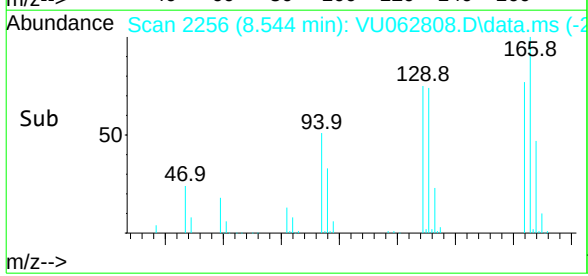
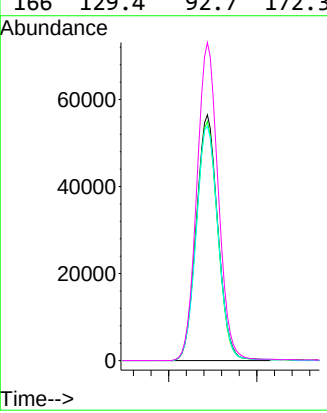
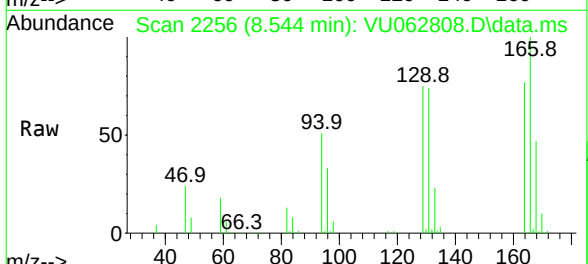


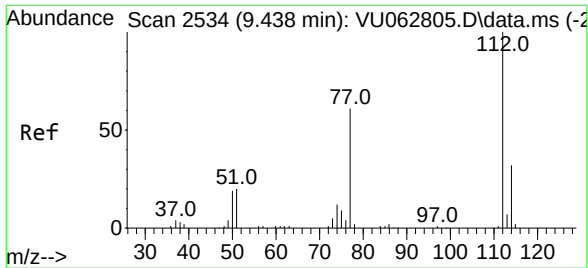
Tgt Ion:	97	Resp:	23444
Ion	Ratio	Lower	Upper
97	100		
99	67.3	45.6	84.6
83	87.4	63.0	117.0
85	55.9	39.0	72.4



#47
 Tetrachloroethene
 Concen: 16.080 ug/L
 RT: 8.544 min Scan# 2256
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

Tgt Ion:	164	Resp:	96381
Ion	Ratio	Lower	Upper
164	100		
129	97.3	71.0	131.9
131	95.4	69.4	129.0
166	129.4	92.7	172.3

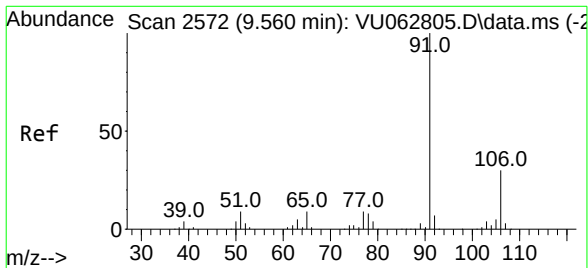
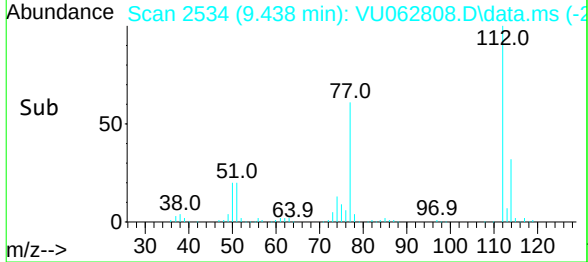
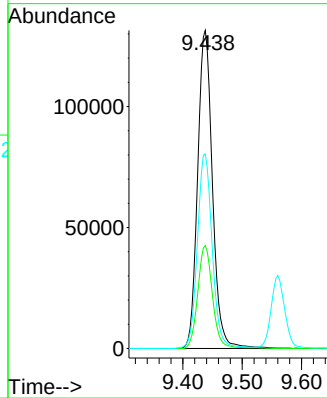
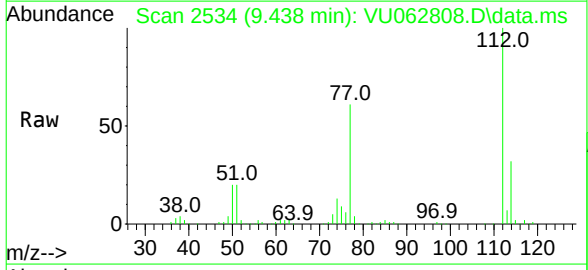




#51
Chlorobenzene
Concen: 12.492 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

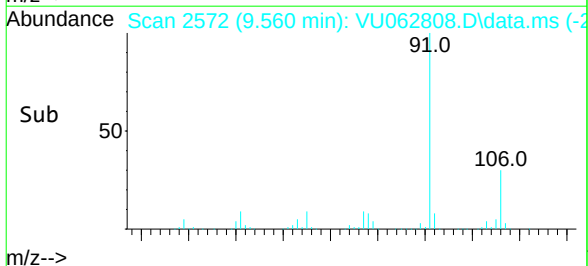
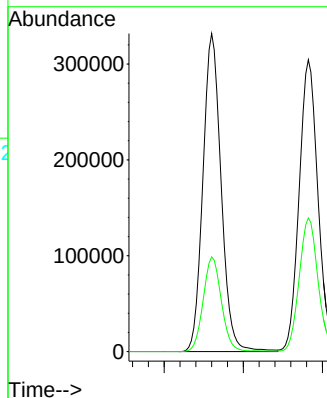
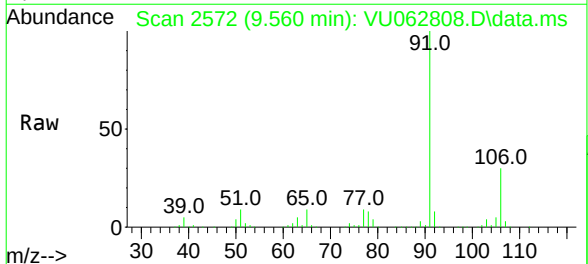
Instrument :
MSVOA_U
ClientSampleId :
GCQA0

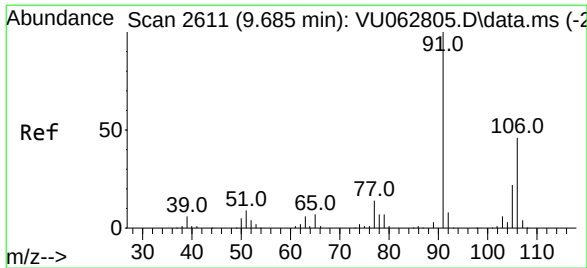
Tgt Ion:112 Resp: 228044
Ion Ratio Lower Upper
112 100
114 32.3 21.7 40.3
77 61.2 48.6 73.0



#52
Ethylbenzene
Concen: 16.714 ug/L
RT: 9.560 min Scan# 2572
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Tgt Ion: 91 Resp: 529481
Ion Ratio Lower Upper
91 100
106 29.8 21.9 40.7





#53

m,p-Xylene

Concen: 19.708 ug/L

RT: 9.682 min Scan# 2611

Delta R.T. -0.003 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Instrument :

MSVOA_U

ClientSampleId :

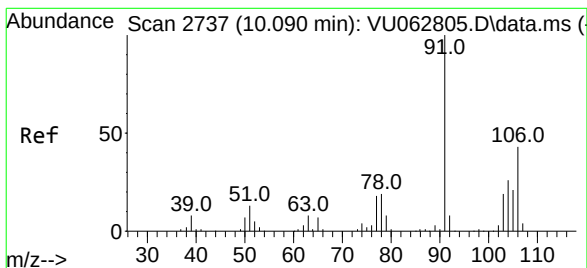
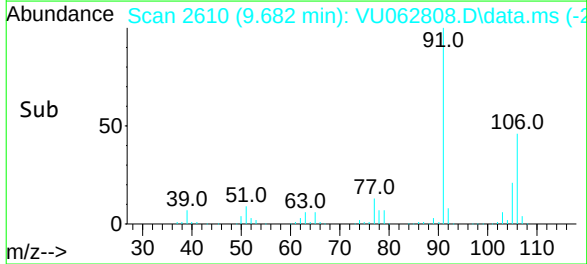
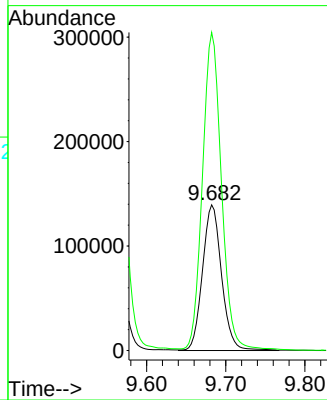
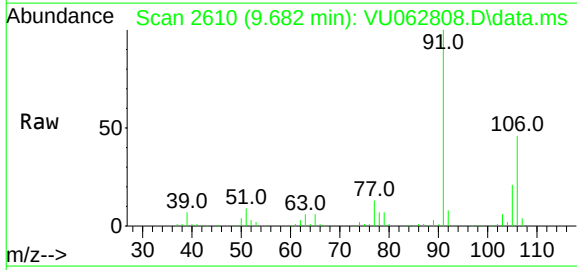
GCQA0

Tgt Ion:106 Resp: 233495

Ion Ratio Lower Upper

106 100

91 218.4 153.1 284.3



#54

o-Xylene

Concen: 7.609 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. 0.000 min

Lab File: VU062808.D

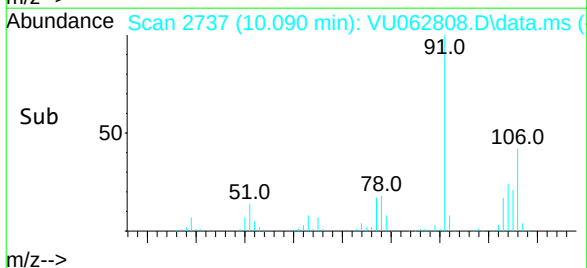
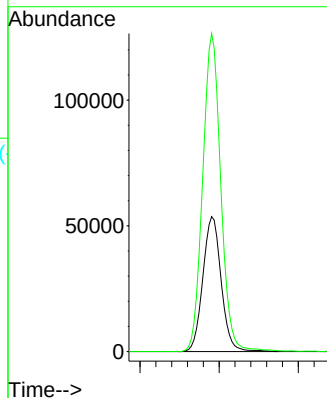
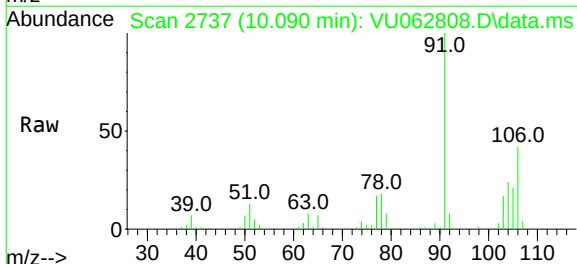
Acq: 16 Jan 2025 10:31

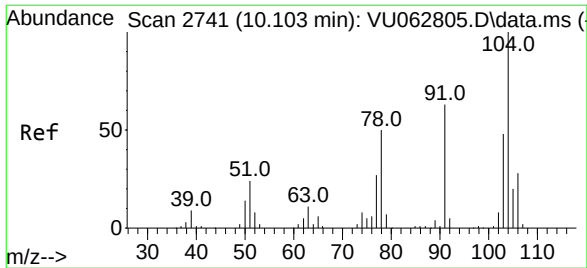
Tgt Ion:106 Resp: 86349

Ion Ratio Lower Upper

106 100

91 235.6 160.4 297.8





#55

Styrene

Concen: 7.470 ug/L

RT: 10.107 min Scan# 2741

Delta R.T. 0.003 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Instrument :

MSVOA_U

ClientSampleId :

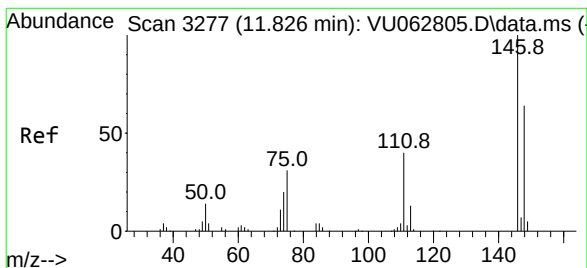
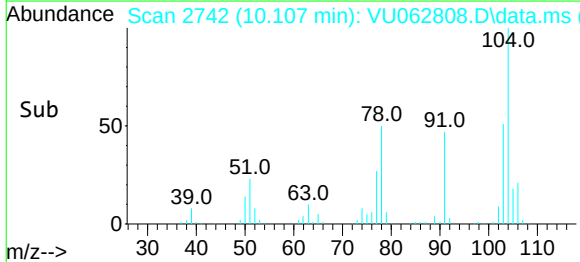
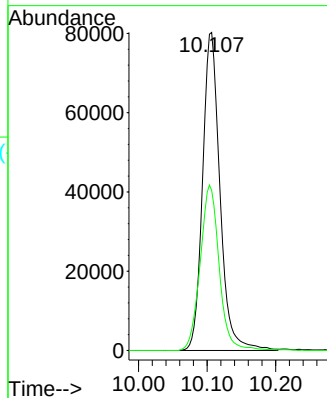
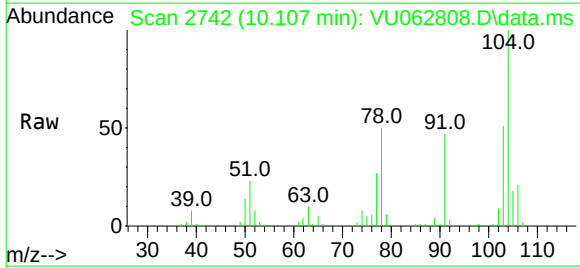
GCQA0

Tgt Ion:104 Resp: 141805

Ion Ratio Lower Upper

104 100

78 50.3 35.5 65.9



#65

1,4-Dichlorobenzene

Concen: 9.792 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

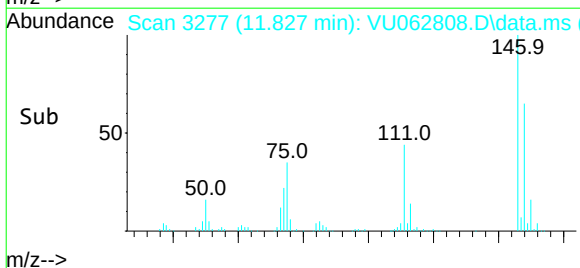
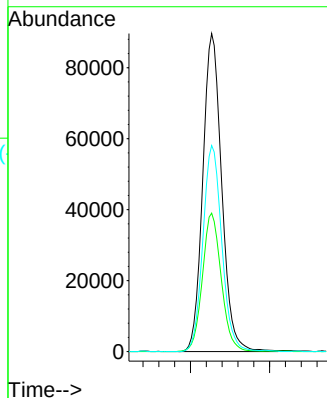
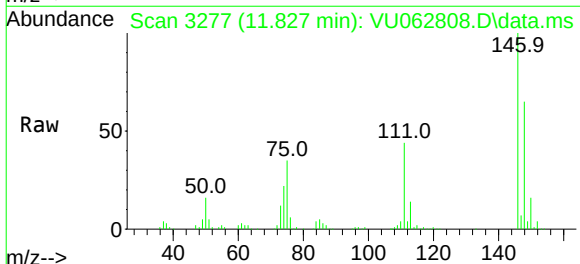
Tgt Ion:146 Resp: 148993

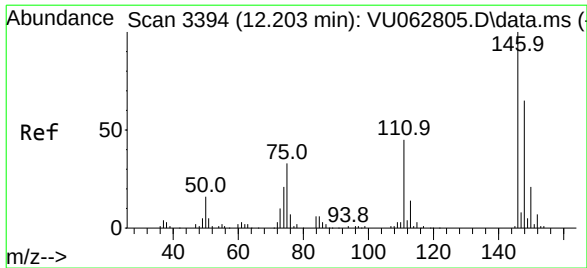
Ion Ratio Lower Upper

146 100

111 43.5 29.5 54.9

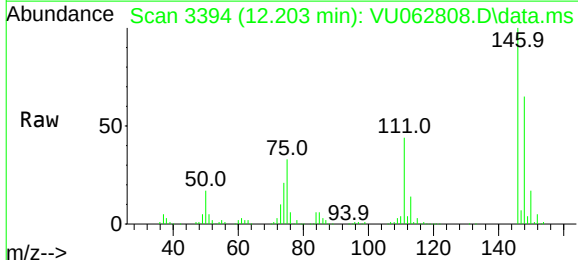
148 64.8 45.1 83.9



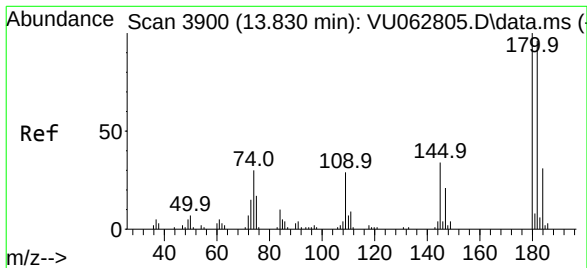
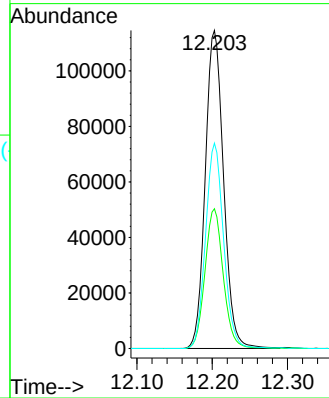
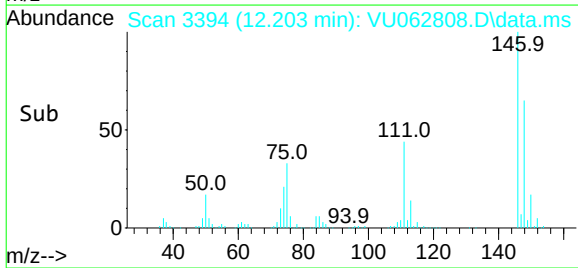


1,2-Dichlorobenzene
 Concen: 13.697 ug/L
 RT: 12.203 min Scan# 3394
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

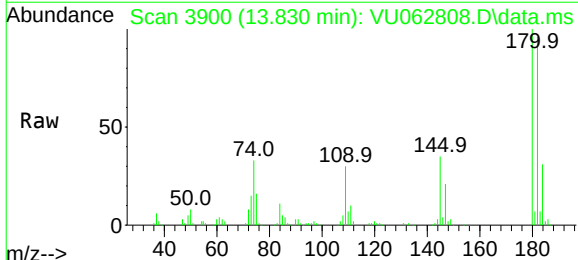
Instrument :
 MSVOA_U
 ClientSampleId :
 GCQA0



Tgt Ion:146 Resp: 193713
 Ion Ratio Lower Upper
 146 100
 111 43.9 36.3 54.5
 148 64.6 52.0 78.0



1,2,4-trichlorobenzene
 Concen: 16.709 ug/L
 RT: 13.830 min Scan# 3900
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31



Tgt Ion:180 Resp: 152940
 Ion Ratio Lower Upper
 180 100
 182 95.4 77.1 115.7
 145 33.3 26.9 40.3

