

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012825\
 Data File : VU063063.D
 Acq On : 28 Jan 2025 13:29
 Operator : MD/SY
 Sample : Q1192-11DL 2X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A44X6DL

Quant Time: Jan 29 09:02:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR012725WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jan 29 08:16:38 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.235	114	122637	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	118689	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.801	152	66608	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	15052	3.414	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.200%
7) Chloroethane-d5	1.904	69	14757	4.409	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.200%
11) 1,1-Dichloroethene-d2	2.554	65	10673	4.048	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.000%
20) 2-Butanone-d5	4.608	46	57874	45.231	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.460%
24) Chloroform-d	5.045	84	70229	4.010	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.200%
26) 1,2-Dichloroethane-d4	5.689	65	40406	4.042	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.800%
32) Benzene-d6	5.714	84	108848	4.013	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.200%
36) 1,2-Dichloropropane-d6	6.679	67	29968	4.339	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.800%
41) Toluene-d8	7.888	98	104704	3.904	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.000%
43) trans-1,3-Dichloroprop...	8.171	79	16998	3.976	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.600%
46) 2-Hexanone-d5	8.621	63	54696	51.274	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.540%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	28377	4.327	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.600%
66) 1,2-Dichlorobenzene-d4	12.183	152	49338	4.138	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.800%

Target Compounds				Qvalue		
5) Vinyl chloride	1.599	62	26213	4.443	ug/L	83
12) 1,1-Dichloroethene	2.570	96	46912	7.363	ug/L	79
16) Methylene chloride	3.033	84	81294	12.104	ug/L	95
18) trans-1,2-Dichloroethene	3.341	96	62482	9.165	ug/L	93
22) cis-1,2-Dichloroethene	4.656	96	24071	2.954	ug/L	86
27) 1,2-Dichloroethane	5.782	62	16366	1.367	ug/L #	94
29) 1,1,1-Trichloroethane	5.303	97	109974	5.975	ug/L	96
31) Carbon tetrachloride	5.512	117	85563	4.829	ug/L	97
33) Benzene	5.759	78	255606	8.889	ug/L	100
34) Trichloroethene	6.531	95	21430	2.193	ug/L	90
37) 1,2-Dichloropropane	6.779	63	45623	7.055	ug/L #	97
42) Toluene	7.959	91	318460	9.318	ug/L	98
45) 1,1,2-Trichloroethane	8.389	97	11947	1.963	ug/L	90
47) Tetrachloroethene	8.544	164	57255	6.737	ug/L	96
51) Chlorobenzene	9.438	112	141483	5.970	ug/L	98
52) Ethylbenzene	9.560	91	327699	8.227	ug/L	99
53) m,p-Xylene	9.682	106	113608	7.386	ug/L	98
54) o-Xylene	10.090	106	44108	3.130	ug/L	99
55) Styrene	10.103	104	227517	9.550	ug/L	100

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QLast Update : Wed Jan 29 08:16:38 2025
Response via : Initial Calibration

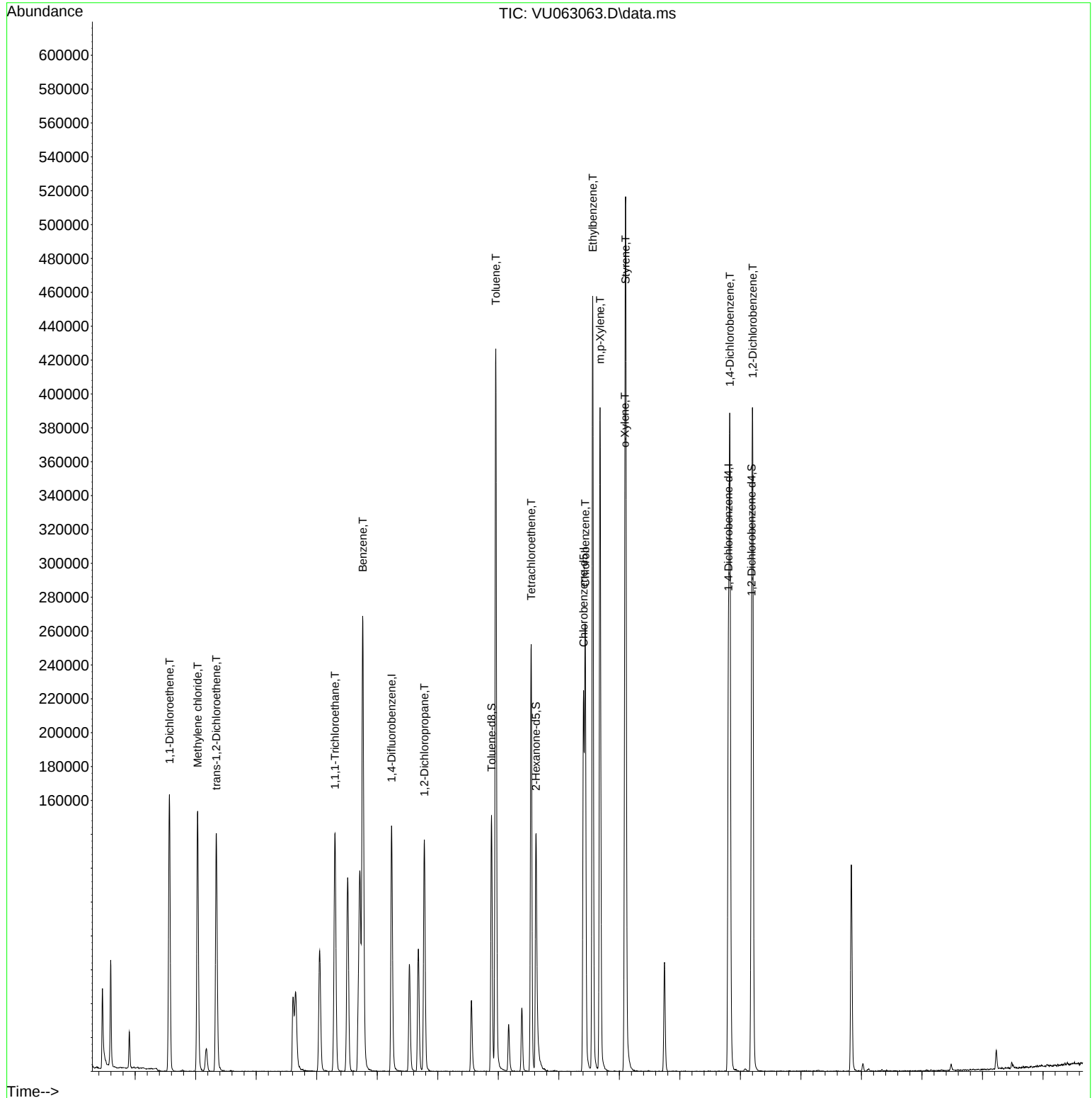
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.827	146	155956	7.255	ug/L	99
67) 1,2-Dichlorobenzene	12.203	146	151060	7.493	ug/L	97
70) 1,2,4-trichlorobenzene	13.833	180	43365	3.237	ug/L	99

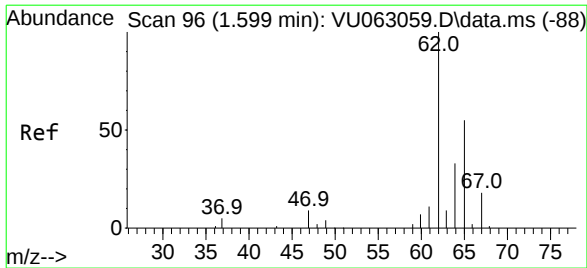
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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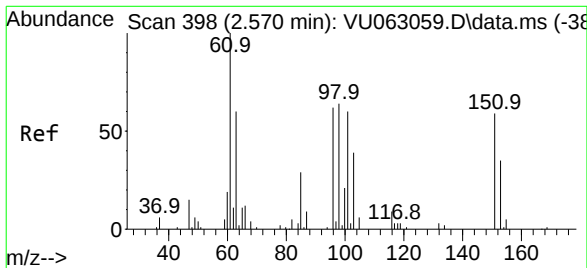
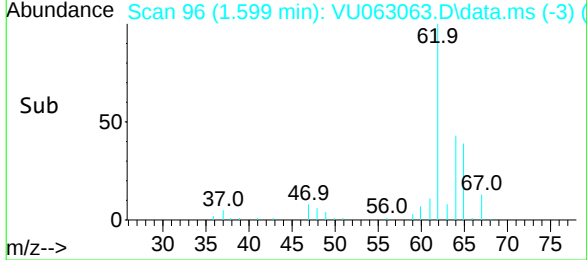
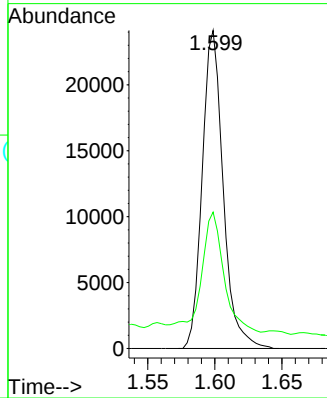
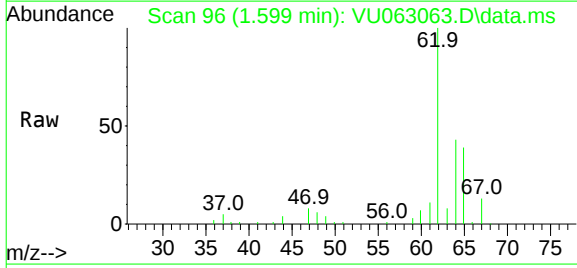




#5
 Vinyl chloride
 Concen: 4.443 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

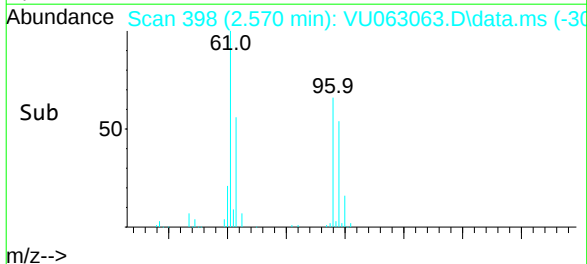
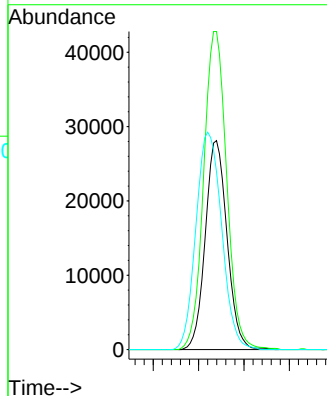
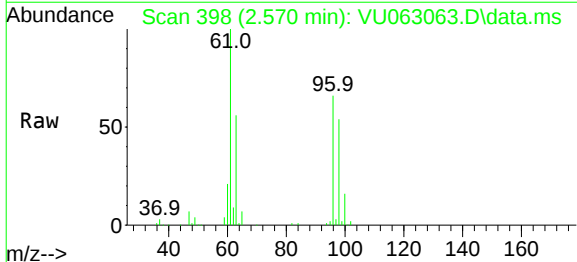
Instrument :
 MSVOA_U
 ClientSampleId :
 A44X6DL

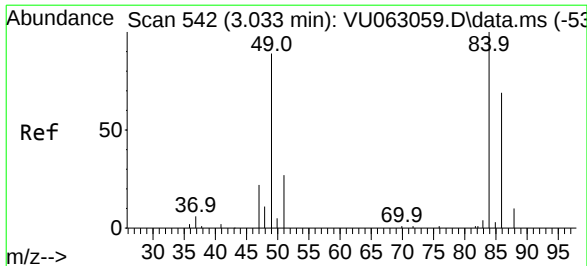
Tgt Ion: 62 Resp: 26213
 Ion Ratio Lower Upper
 62 100
 64 42.9 23.4 43.4



#12
 1,1-Dichloroethene
 Concen: 7.363 ug/L
 RT: 2.570 min Scan# 398
 Delta R.T. -0.000 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

Tgt Ion: 96 Resp: 46912
 Ion Ratio Lower Upper
 96 100
 61 152.2 120.4 223.6
 63 85.0 82.3 152.9





#16

Methylene chloride

Concen: 12.104 ug/L

RT: 3.033 min Scan# 54

Delta R.T. -0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

ClientSampleId :

A44X6DL

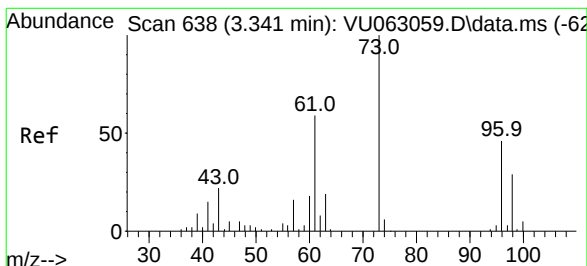
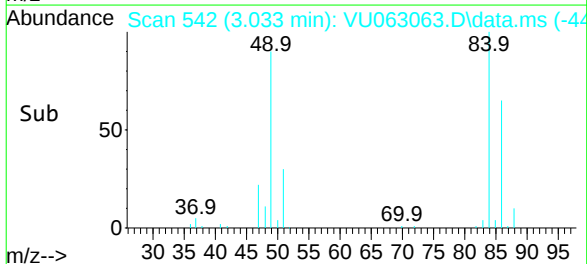
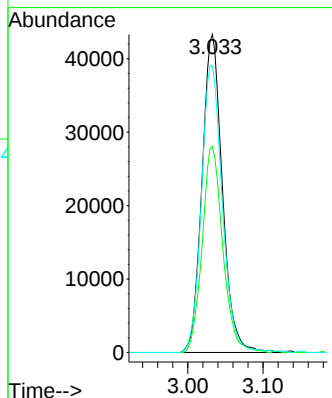
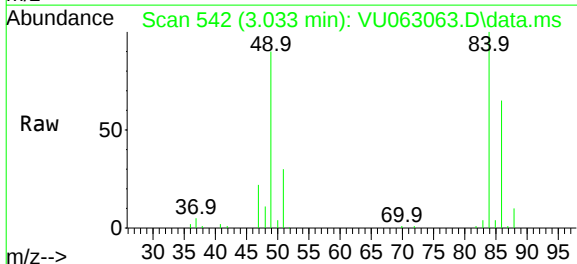
Tgt Ion: 84 Resp: 81294

Ion Ratio Lower Upper

84 100

86 64.8 44.7 83.1

49 90.0 68.3 126.9



#18

trans-1,2-Dichloroethene

Concen: 9.165 ug/L

RT: 3.341 min Scan# 638

Delta R.T. -0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

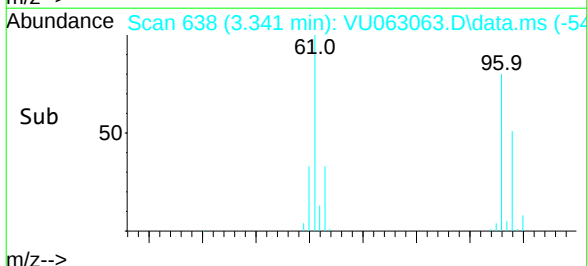
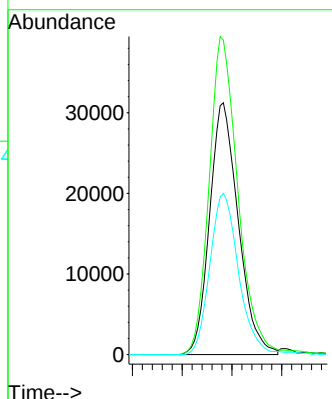
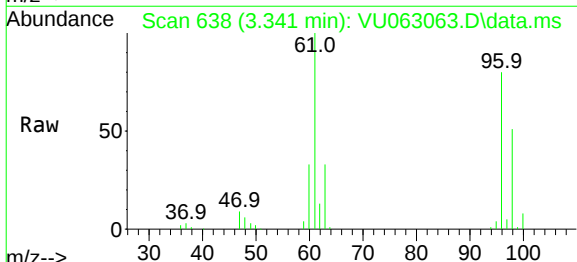
Tgt Ion: 96 Resp: 62482

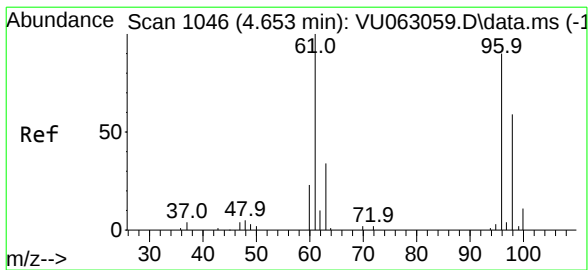
Ion Ratio Lower Upper

96 100

61 124.9 94.4 175.2

98 64.0 42.8 79.4

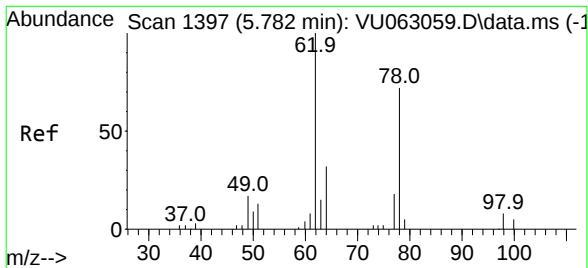
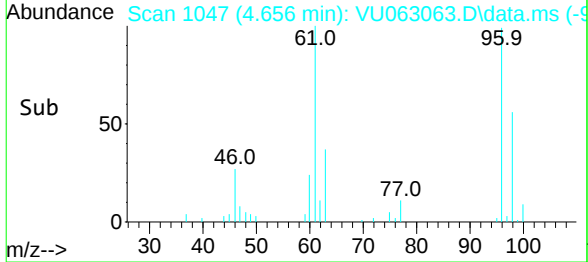
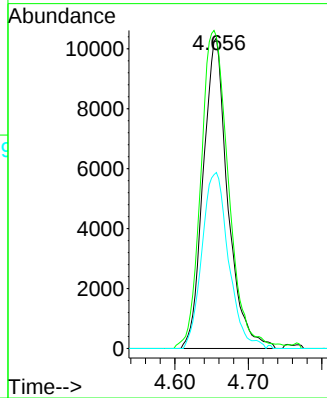
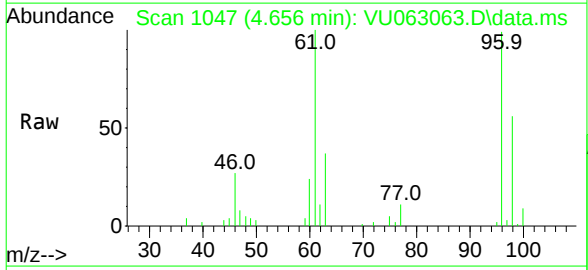




#22
 cis-1,2-Dichloroethene
 Concen: 2.954 ug/L
 RT: 4.656 min Scan# 1046
 Delta R.T. 0.003 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

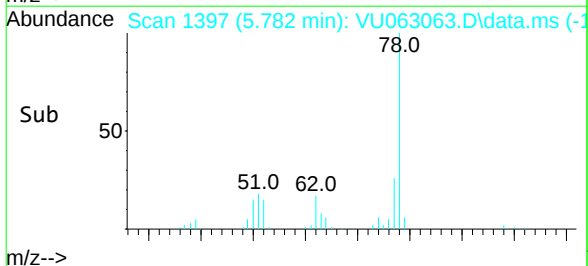
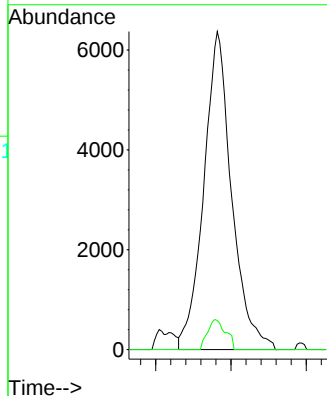
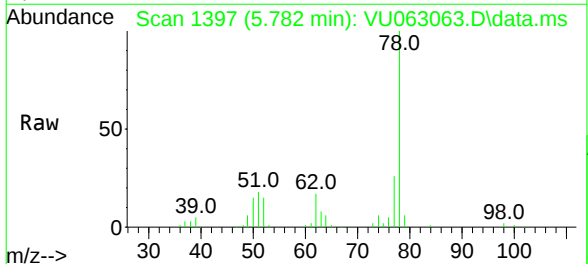
Instrument :
 MSVOA_U
 ClientSampleId :
 A44X6DL

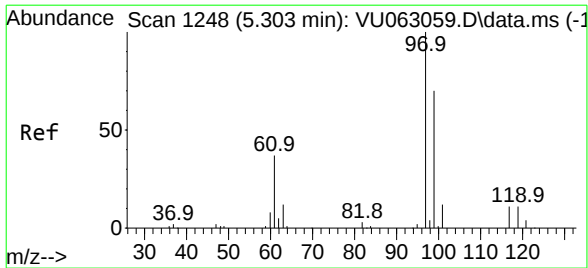
Tgt Ion: 96	Resp: 24071
Ion Ratio	Lower Upper
96 100	
61 100.6	84.8 157.6
98 56.7	43.1 80.1



#27
 1,2-Dichloroethane
 Concen: 1.367 ug/L
 RT: 5.782 min Scan# 1397
 Delta R.T. -0.000 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

Tgt Ion: 62	Resp: 16366
Ion Ratio	Lower Upper
62 100	
98 9.2	5.8 8.6#

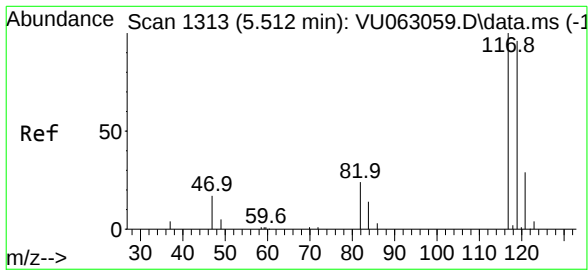
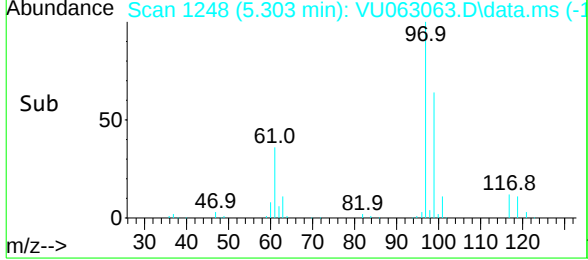
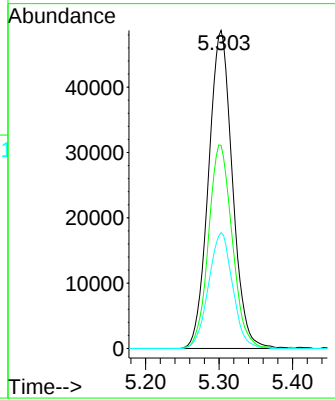
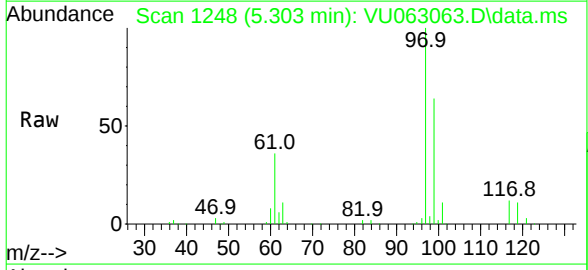




#29
 1,1,1-Trichloroethane
 Concen: 5.975 ug/L
 RT: 5.303 min Scan# 1248
 Delta R.T. -0.000 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

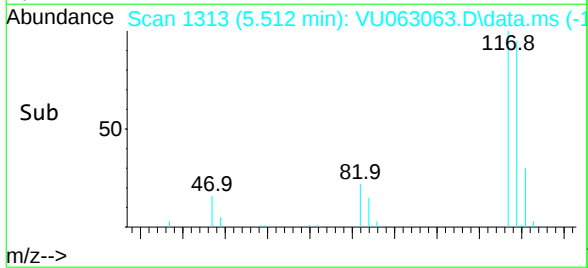
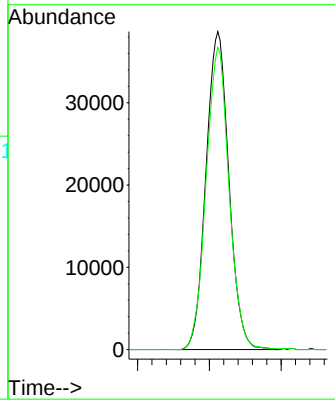
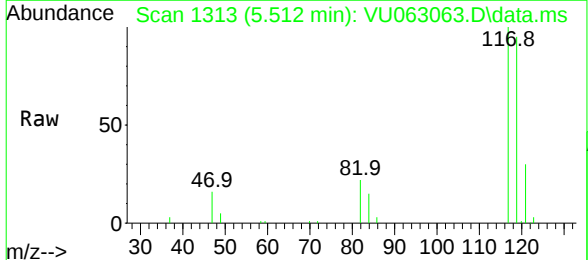
Instrument :
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 ClientSampleId :
 A44X6DL

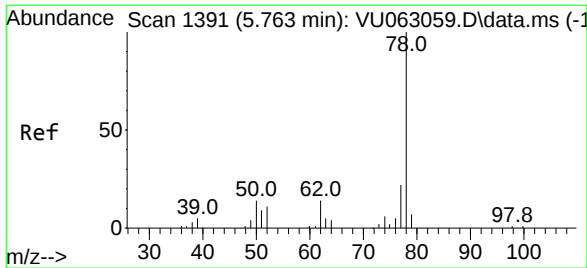
Tgt Ion:	97	Resp:	109974
Ion	Ratio	Lower	Upper
97	100		
99	63.5	52.4	78.6
61	36.7	32.2	48.4



#31
 Carbon tetrachloride
 Concen: 4.829 ug/L
 RT: 5.512 min Scan# 1313
 Delta R.T. -0.000 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

Tgt Ion:	117	Resp:	85563
Ion	Ratio	Lower	Upper
117	100		
119	95.2	78.6	118.0





#33

Benzene

Concen: 8.889 ug/L

RT: 5.759 min Scan# 13

Delta R.T. -0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

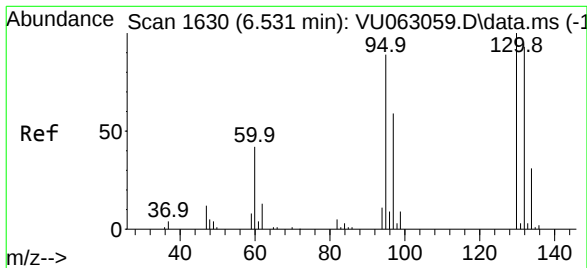
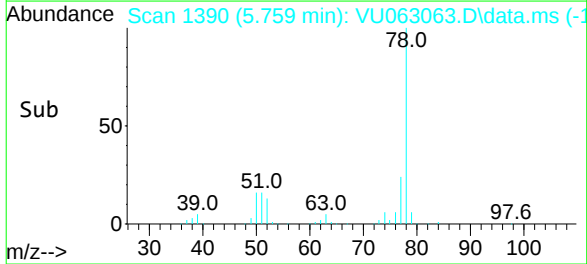
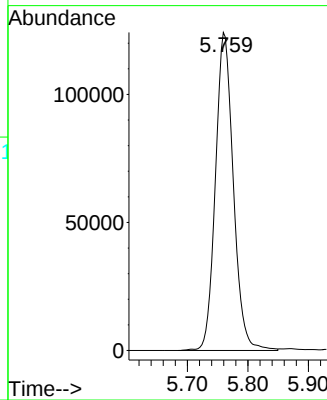
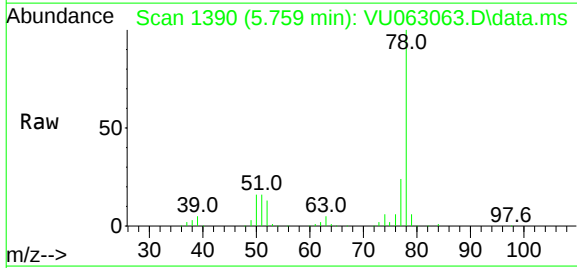
Instrument :

MSVOA_U

ClientSampleId :

A44X6DL

Tgt Ion: 78 Resp: 255606



#34

Trichloroethene

Concen: 2.193 ug/L

RT: 6.531 min Scan# 1630

Delta R.T. -0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Tgt Ion: 95 Resp: 21430

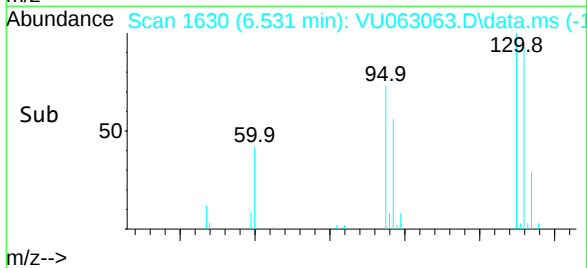
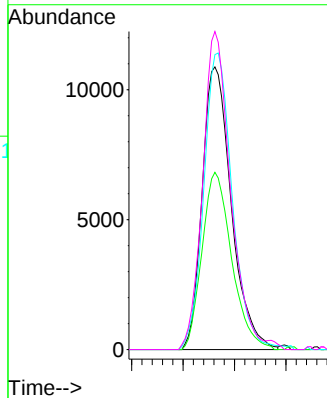
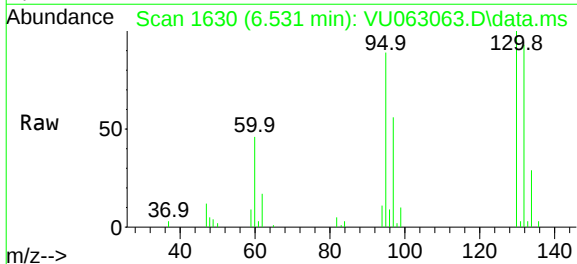
Ion Ratio Lower Upper

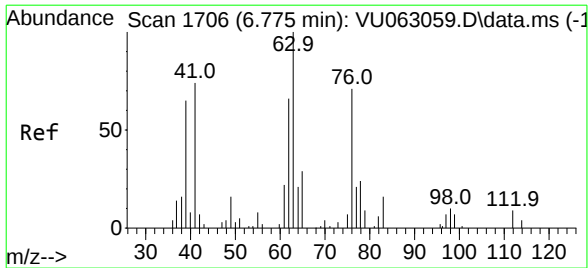
95 100

97 62.7 47.5 88.3

132 104.4 66.9 124.3

130 112.5 68.6 127.4

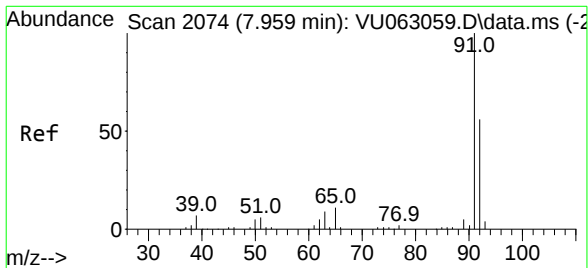
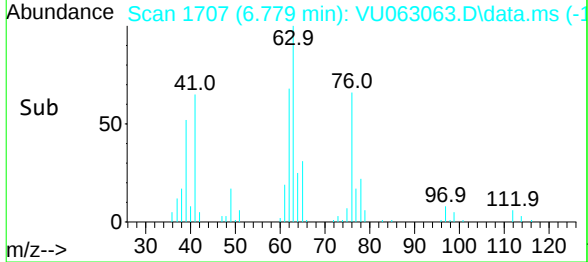
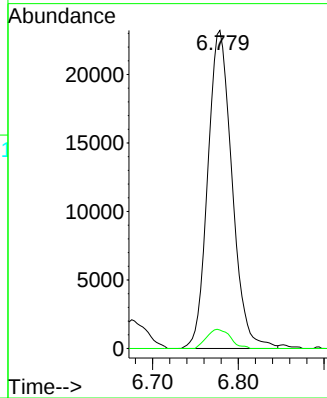
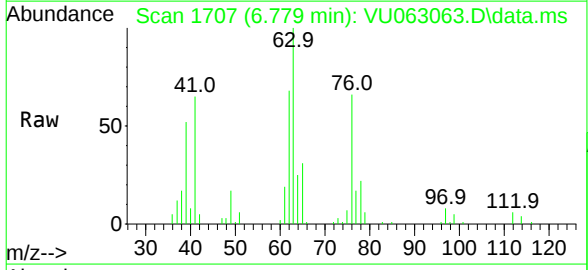




#37
1,2-Dichloropropane
Concen: 7.055 ug/L
RT: 6.779 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

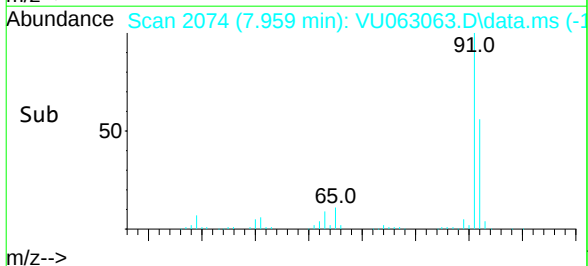
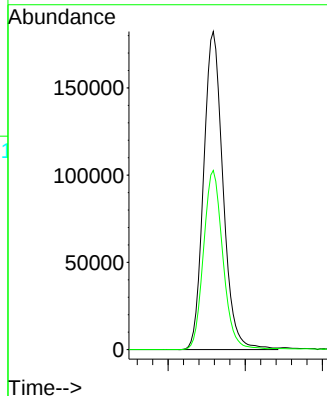
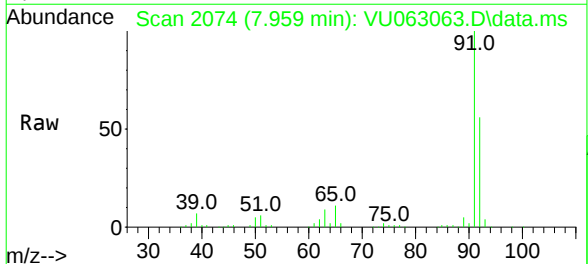
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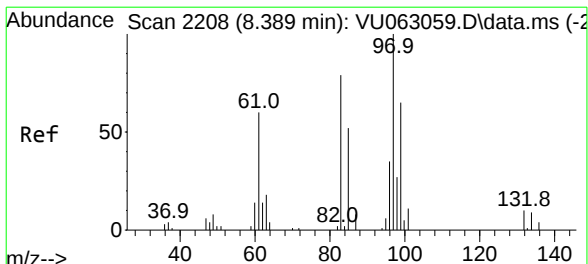
Tgt Ion: 63 Resp: 45623
Ion Ratio Lower Upper
63 100
112 5.9 3.8 5.8#



#42
Toluene
Concen: 9.318 ug/L
RT: 7.959 min Scan# 2074
Delta R.T. -0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

Tgt Ion: 91 Resp: 318460
Ion Ratio Lower Upper
91 100
92 56.3 40.4 75.0

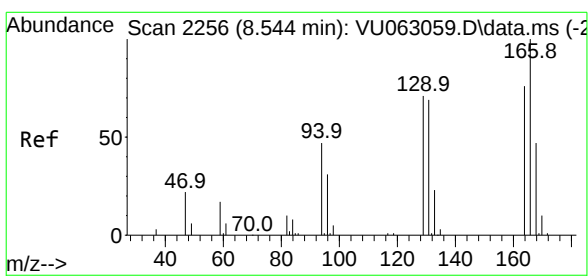
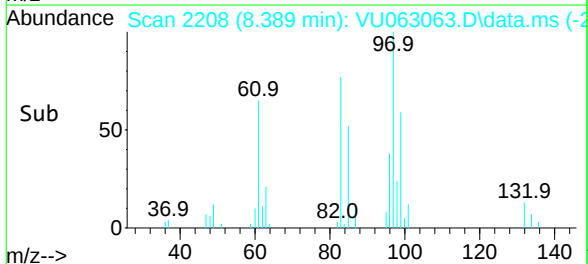
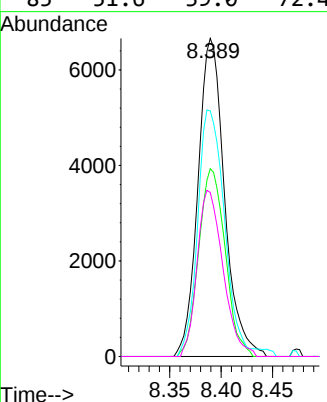
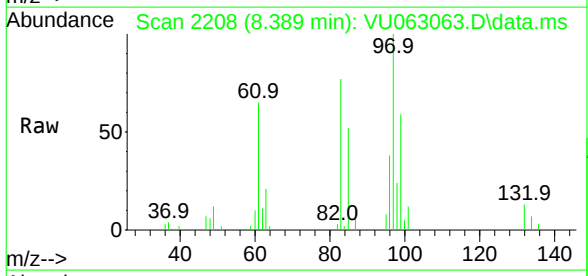




#45
 1,1,2-Trichloroethane
 Concen: 1.963 ug/L
 RT: 8.389 min Scan# 2208
 Delta R.T. 0.003 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

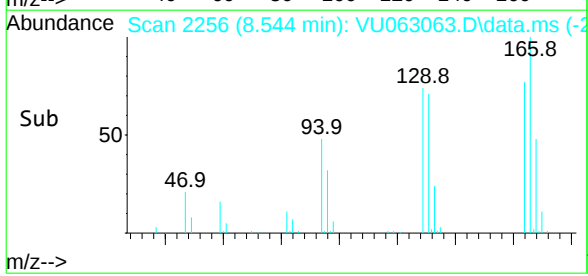
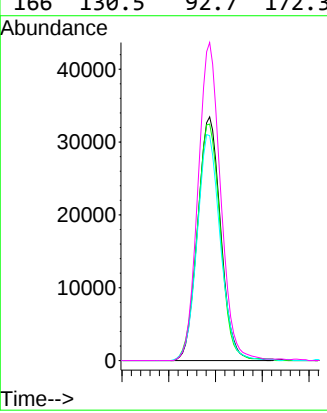
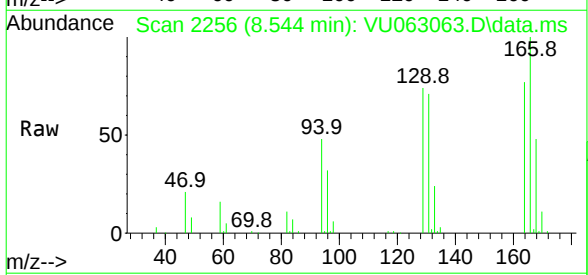
Instrument :
 MSVOA_U
 ClientSampleId :
 A44X6DL

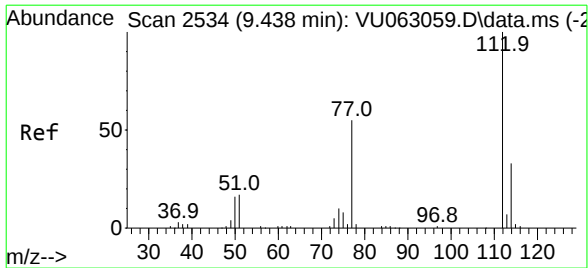
Tgt Ion:	97	Resp:	11947
Ion	Ratio	Lower	Upper
97	100		
99	59.1	45.6	84.6
83	77.2	63.0	117.0
85	51.6	39.0	72.4



#47
 Tetrachloroethene
 Concen: 6.737 ug/L
 RT: 8.544 min Scan# 2256
 Delta R.T. 0.003 min
 Lab File: VU063063.D
 Acq: 28 Jan 2025 13:29

Tgt Ion:	164	Resp:	57255
Ion	Ratio	Lower	Upper
164	100		
129	97.1	71.0	131.9
131	92.3	69.4	129.0
166	130.5	92.7	172.3

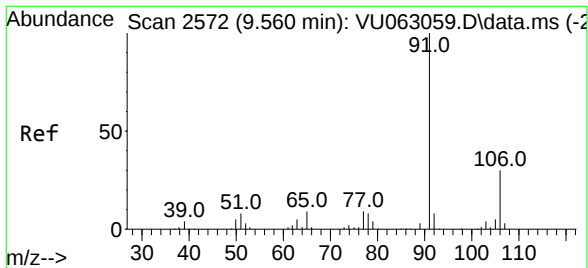
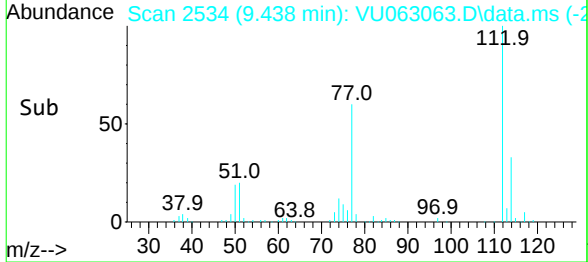
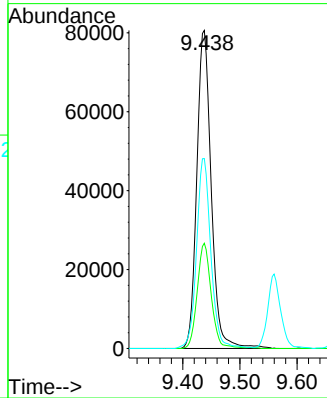
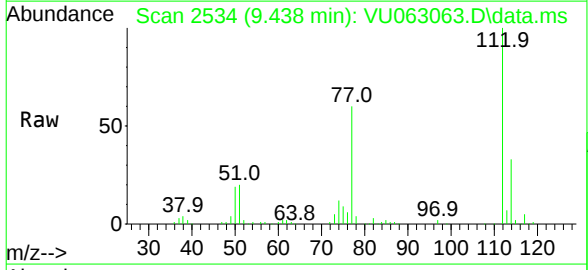




#51
Chlorobenzene
Concen: 5.970 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. 0.003 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

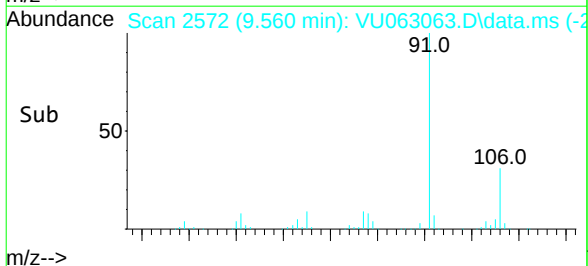
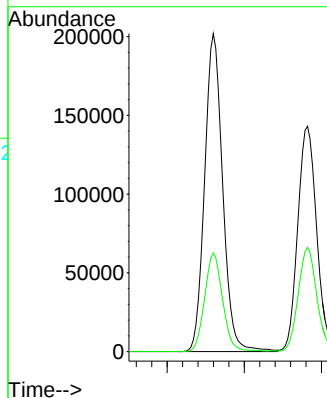
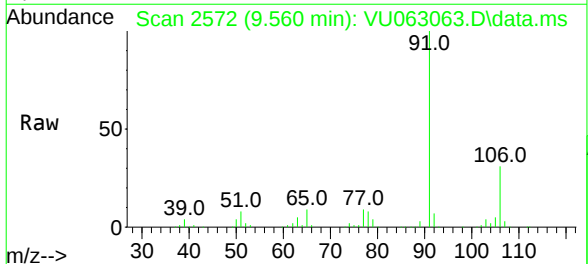
Instrument :
MSVOA_U
ClientSampleId :
A44X6DL

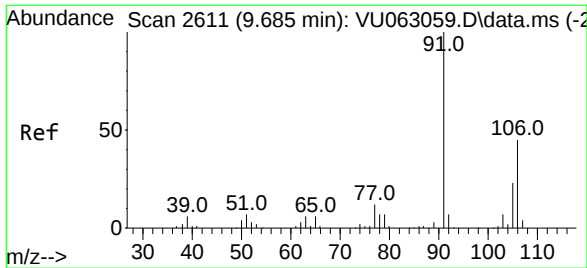
Tgt Ion:112 Resp: 141483
Ion Ratio Lower Upper
112 100
114 33.1 21.7 40.3
77 59.7 48.6 73.0



#52
Ethylbenzene
Concen: 8.227 ug/L
RT: 9.560 min Scan# 2572
Delta R.T. -0.000 min
Lab File: VU063063.D
Acq: 28 Jan 2025 13:29

Tgt Ion: 91 Resp: 327699
Ion Ratio Lower Upper
91 100
106 31.0 21.9 40.7





#53

m,p-Xylene

Concen: 7.386 ug/L

RT: 9.682 min Scan# 2611

Delta R.T. -0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

ClientSampleId :

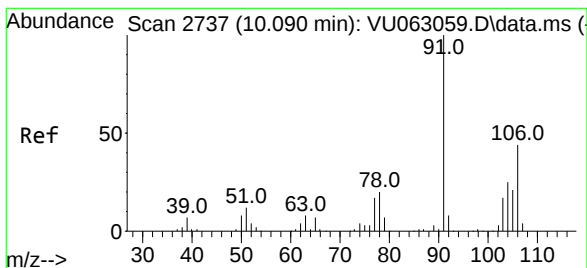
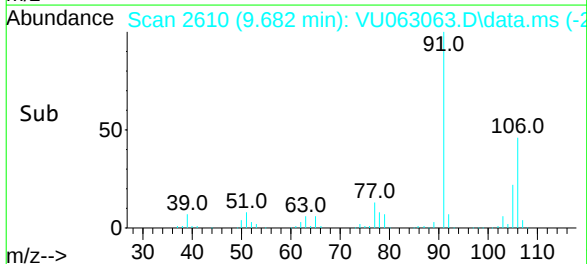
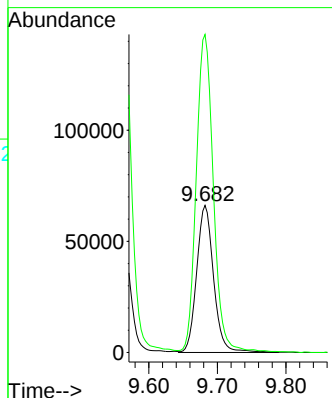
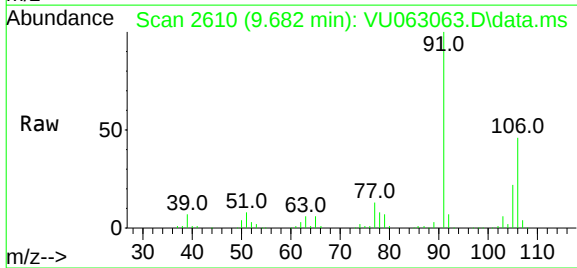
A44X6DL

Tgt Ion:106 Resp: 113608

Ion Ratio Lower Upper

106 100

91 216.2 153.1 284.3



#54

o-Xylene

Concen: 3.130 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.000 min

Lab File: VU063063.D

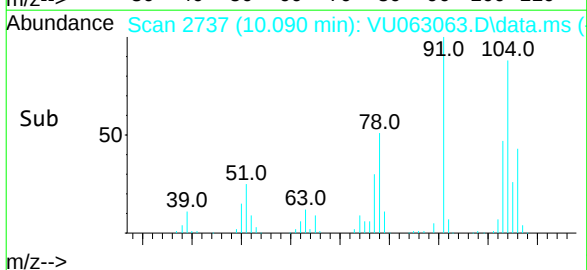
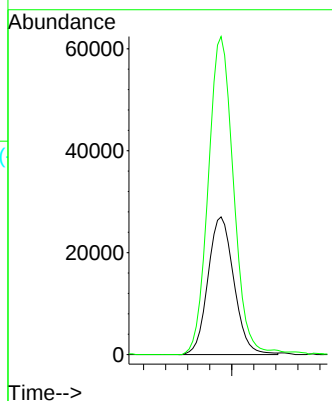
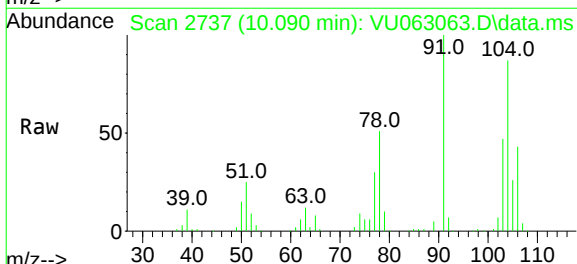
Acq: 28 Jan 2025 13:29

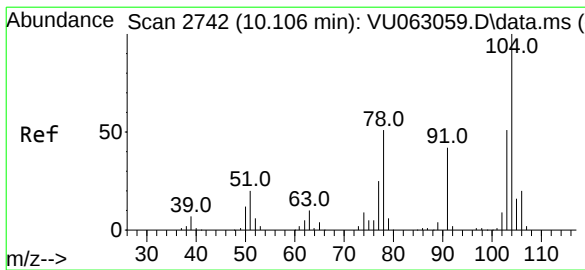
Tgt Ion:106 Resp: 44108

Ion Ratio Lower Upper

106 100

91 230.9 160.4 297.8





#55

Styrene

Concen: 9.550 ug/L

RT: 10.103 min Scan# 27

Delta R.T. -0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

ClientSampleId :

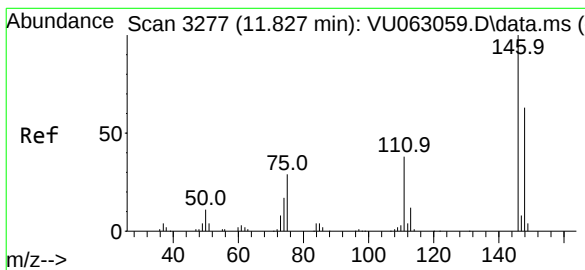
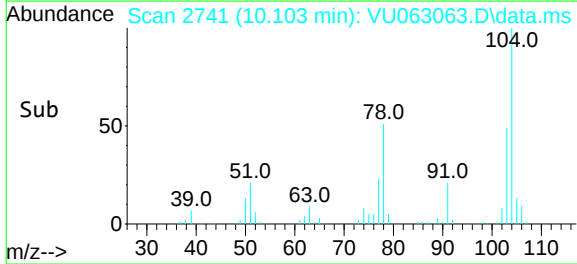
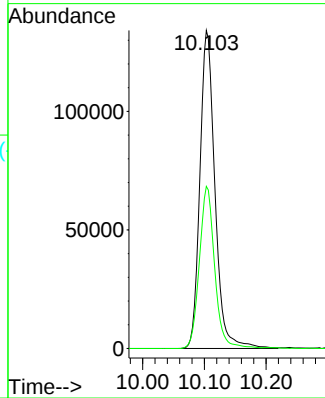
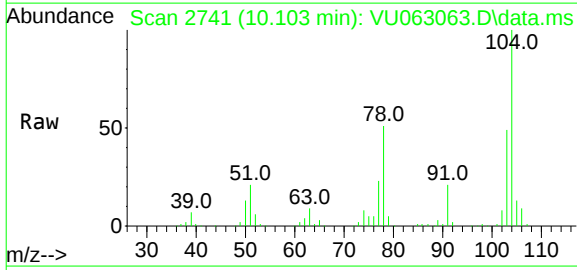
A44X6DL

Tgt Ion:104 Resp: 227517

Ion Ratio Lower Upper

104 100

78 51.0 35.5 65.9



#65

1,4-Dichlorobenzene

Concen: 7.255 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. -0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

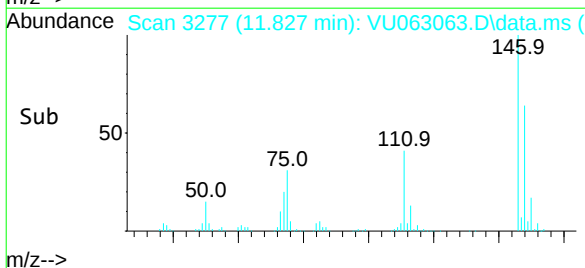
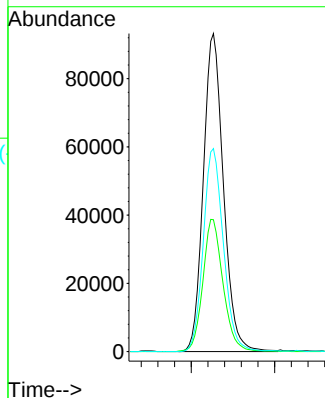
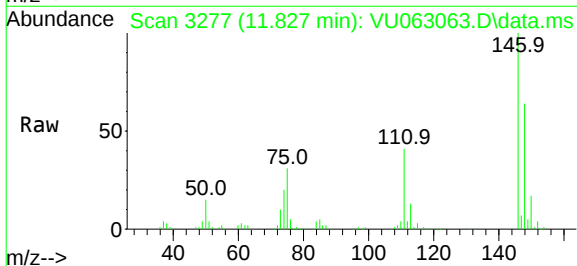
Tgt Ion:146 Resp: 155956

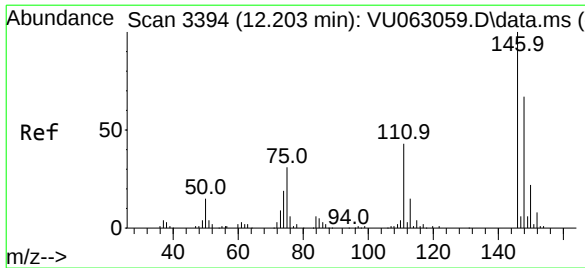
Ion Ratio Lower Upper

146 100

111 41.5 29.5 54.9

148 63.8 45.1 83.9





#67

1,2-Dichlorobenzene

Concen: 7.493 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. -0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Instrument :

MSVOA_U

ClientSampleId :

A44X6DL

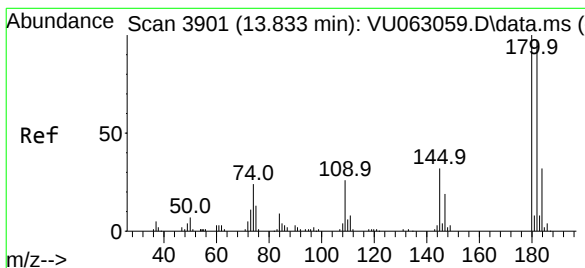
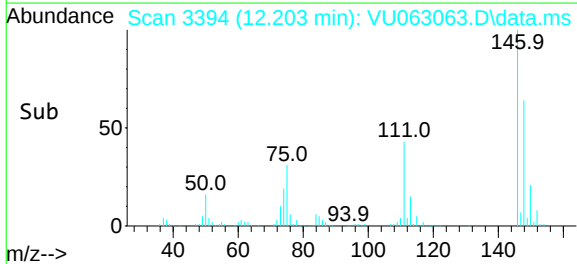
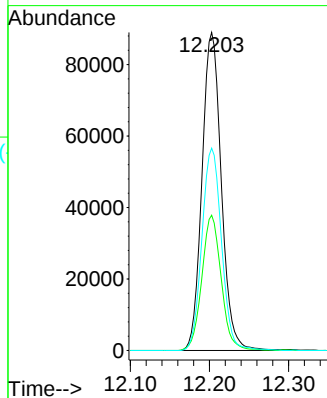
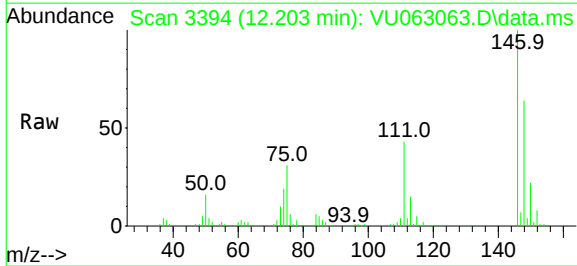
Tgt Ion:146 Resp: 151060

Ion Ratio Lower Upper

146 100

111 42.5 36.3 54.5

148 63.6 52.0 78.0



#70

1,2,4-trichlorobenzene

Concen: 3.237 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. -0.000 min

Lab File: VU063063.D

Acq: 28 Jan 2025 13:29

Tgt Ion:180 Resp: 43365

Ion Ratio Lower Upper

180 100

182 95.5 77.1 115.7

145 33.5 26.9 40.3

