

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U073124\
 Data File : VU060281.D
 Acq On : 31 Jul 2024 14:01
 Operator : MD/SY
 Sample : P3287-05
 Misc : 10.00g/10.0mL//100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 01 00:22:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM070224WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 01 00:19:02 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.239	114	241242	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	257292	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	131843	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	67949	43.868	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	87.740%		
7) Chloroethane-d5	1.872	69	31983	24.548	ug/L	-0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	49.100%#		
11) 1,1-Dichloroethene-d2	2.538	63	77326	28.100	ug/L	-0.02
Spiked Amount 50.000	Range 60 - 125		Recovery =	56.200%#		
21) 2-Butanone-d5	4.628	46	96087	89.263	ug/L	0.02
Spiked Amount 100.000	Range 40 - 130		Recovery =	89.260%		
24) Chloroform-d	5.052	84	113803	37.940	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	75.880%		
26) 1,2-Dichloroethane-d4	5.692	65	67564	37.883	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	75.760%		
32) Benzene-d6	5.714	84	227354	34.508	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	69.020%#		
36) 1,2-Dichloropropane-d6	6.682	67	75163	36.860	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	73.720%		
41) Toluene-d8	7.891	98	199990	31.919	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	63.840%#		
43) trans-1,3-Dichloroprop...	8.174	79	35857	37.579	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	75.160%		
47) 2-Hexanone-d5	8.637	63	65485	76.201	ug/L	0.01
Spiked Amount 100.000	Range 45 - 130		Recovery =	76.200%		
56) 1,1,2,2-Tetrachloroeth...	10.753	84	123532	39.470	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	78.940%		
66) 1,2-Dichlorobenzene-d4	11.807	152	117787	48.617	ug/L	-0.38
Spiked Amount 50.000	Range 80 - 120		Recovery =	97.240%		
Target Compounds					Qvalue	
13) Acetone	2.634	43	321008	289.599	ug/L	98
15) Methyl Acetate	2.949	43	22218	13.295	ug/L	95
16) Methylene chloride	3.026	84	326953	181.264	ug/L	93
18) Methyl tert-butyl Ether	3.361	73	222033	46.422	ug/L	98
20) cis-1,2-Dichloroethene	4.650	96	186811	104.763	ug/L	94
22) 2-Butanone	4.698	43	512837	376.043	ug/L	93
25) Chloroform	5.075	83	167890	55.861	ug/L	95
27) 1,2-Dichloroethane	5.782	62	454464	199.185	ug/L	99
37) 1,2-Dichloropropane	6.782	63	210714	110.182	ug/L	100
38) Bromodichloromethane	7.097	83	133436	55.067	ug/L	98
39) cis-1,3-Dichloropropene	7.599	75	388223	132.682	ug/L	97
42) Toluene	7.962	91	1533820	202.218	ug/L	99
44) trans-1,3-Dichloropropene	8.206	75	162843	60.589	ug/L	97
46) Tetrachloroethene	8.547	164	116999	76.707	ug/L	95
48) 2-Hexanone	8.689	43	948310	468.781	ug/L	97
49) Dibromochloromethane	8.808	129	48584	24.620	ug/L	98
50) 1,2-Dibromoethane	8.917	107	186639	89.127	ug/L	98
51) Chlorobenzene	9.444	112	588167	116.804	ug/L	97
52) Ethylbenzene	9.566	91	460507	56.853	ug/L	98

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

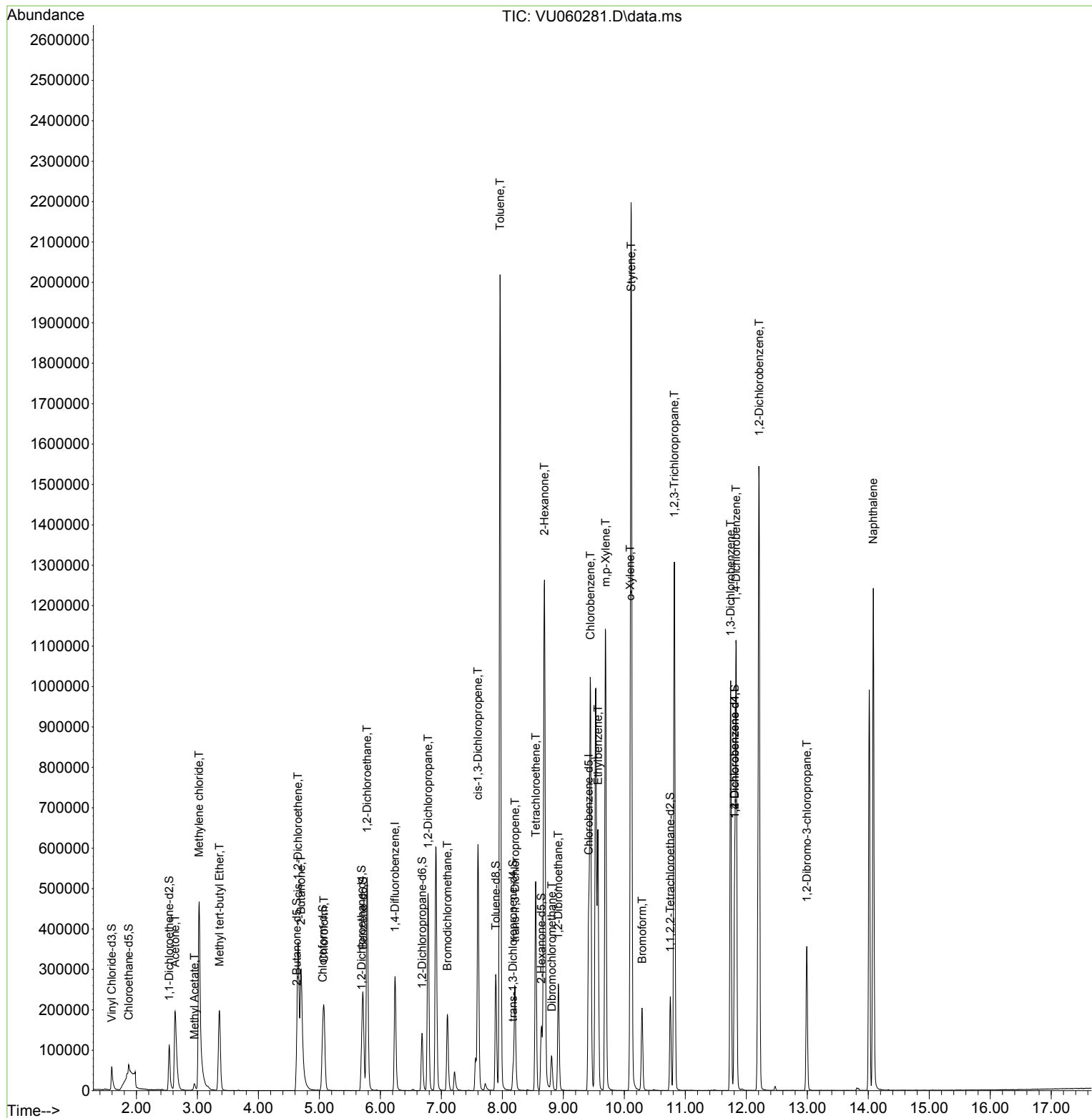
53) m,p-Xylene	9.692	106	339107	107.523	ug/L	96
54) o-Xylene	10.097	106	112690	37.158	ug/L	96
55) Styrene	10.113	104	1050075	205.234	ug/L	98
59) Bromoform	10.290	173	98838	62.000	ug/L	99
60) 1,2,3-Trichloropropane	10.820	75	594150	237.452	ug/L	98
64) 1,3-Dichlorobenzene	11.743	146	420954	105.615	ug/L	96
65) 1,4-Dichlorobenzene	11.833	146	443929	107.742	ug/L	98
67) 1,2-Dichlorobenzene	12.209	146	608558	151.142	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.991	75	93751	137.004	ug/L	93
71) Naphthalene	14.081	128	967952	129.320	ug/L	99

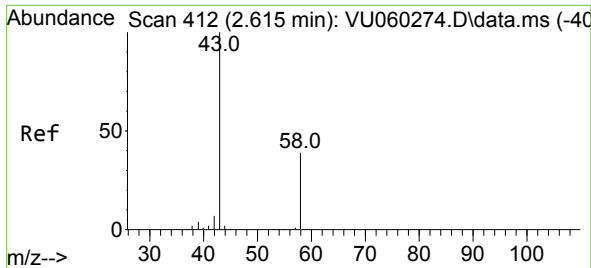
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 289.599 ug/L

RT: 2.634 min Scan# 41

Delta R.T. 0.019 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

Instrument :

MSVOA_U

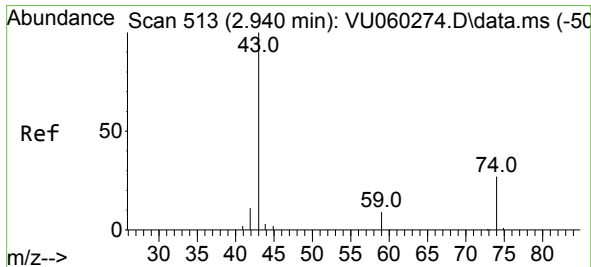
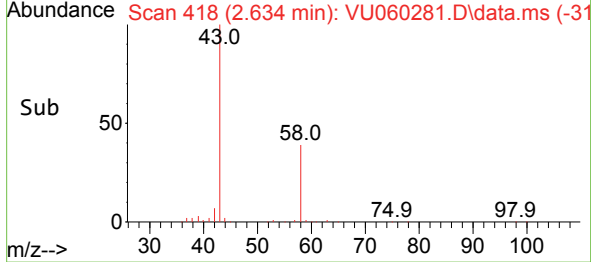
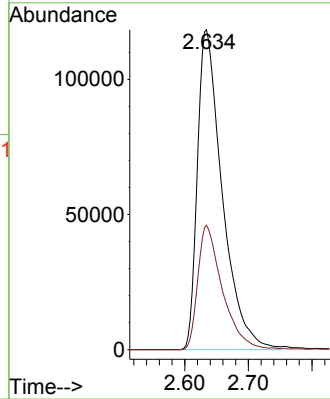
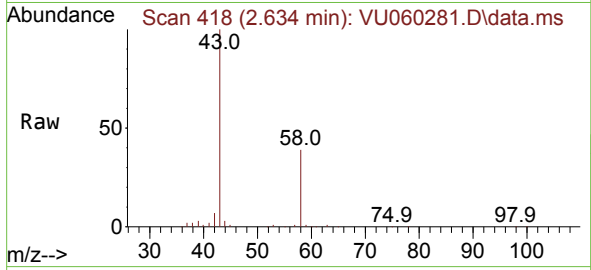
ClientSampleId :

Tgt Ion: 43 Resp: 321008

Ion Ratio Lower Upper

43 100

58 38.3 0.0 73.8



#15

Methyl Acetate

Concen: 13.295 ug/L

RT: 2.949 min Scan# 516

Delta R.T. 0.010 min

Lab File: VU060281.D

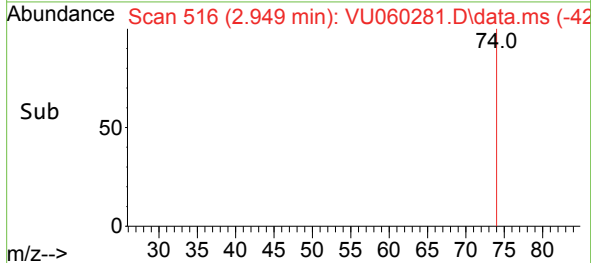
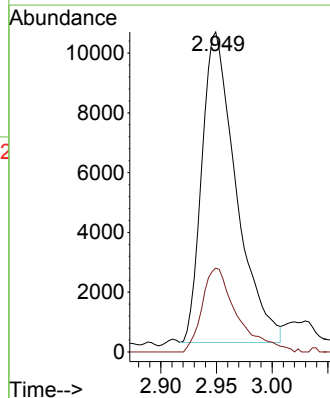
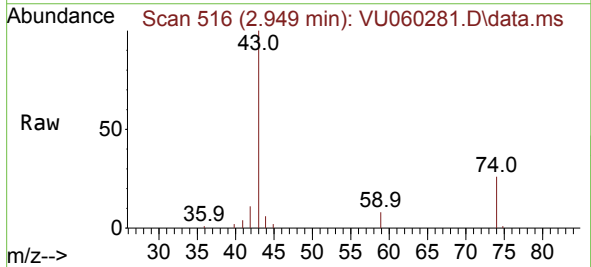
Acq: 31 Jul 2024 14:01

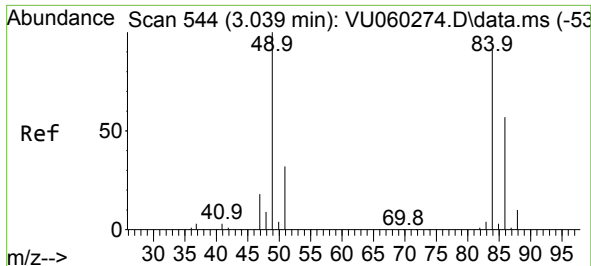
Tgt Ion: 43 Resp: 22218

Ion Ratio Lower Upper

43 100

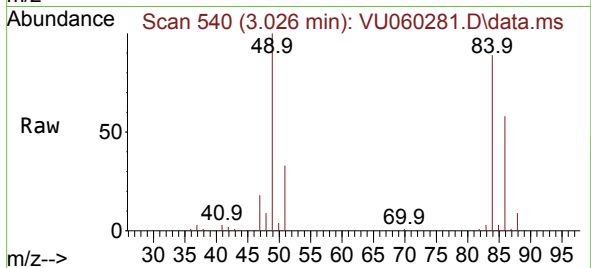
74 27.5 24.1 36.1



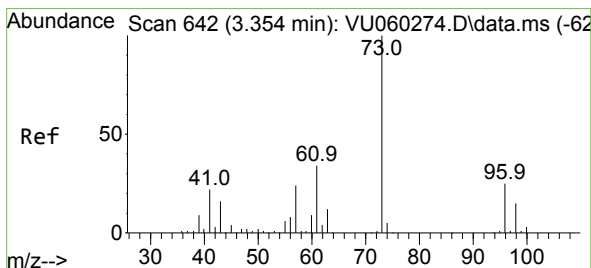
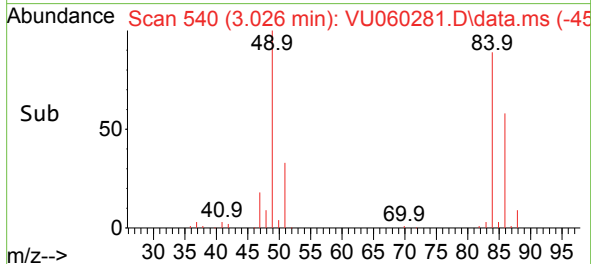
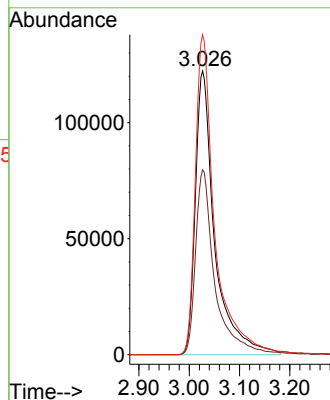


#16
Methylene chloride
Concen: 181.264 ug/L
RT: 3.026 min Scan# 544
Delta R.T. -0.013 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

Instrument :
MSVOA_U
ClientSampleId :

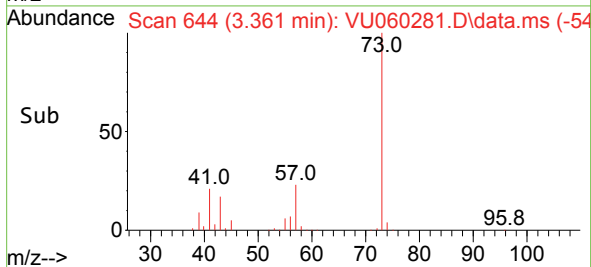
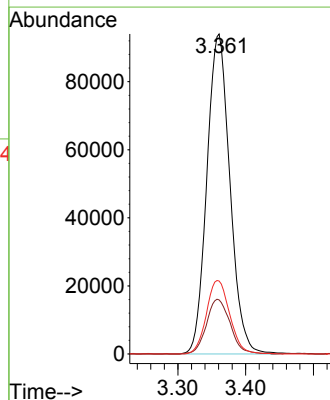
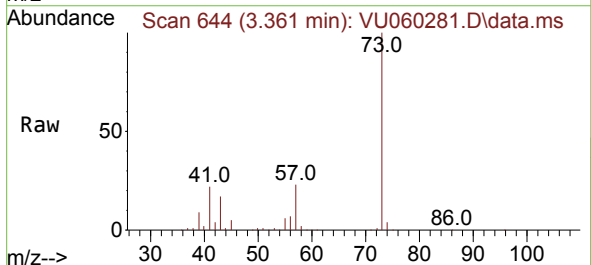


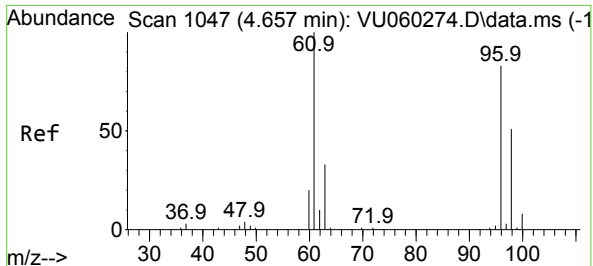
Tgt Ion: 84 Resp: 326953
Ion Ratio Lower Upper
84 100
86 65.2 44.7 83.1
49 112.8 71.6 133.0



#18
Methyl tert-butyl Ether
Concen: 46.422 ug/L
RT: 3.361 min Scan# 644
Delta R.T. 0.006 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

Tgt Ion: 73 Resp: 222033
Ion Ratio Lower Upper
73 100
43 17.6 14.1 21.1
57 23.2 17.1 25.7

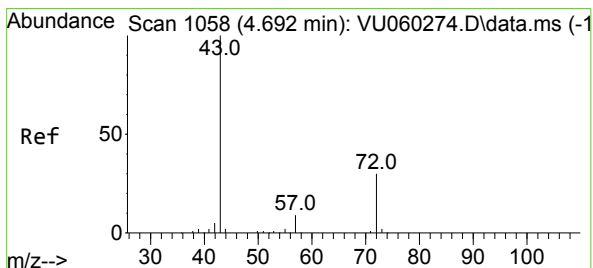
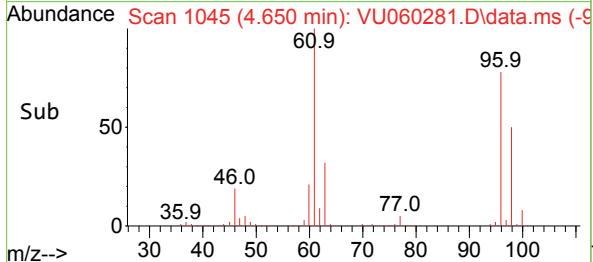
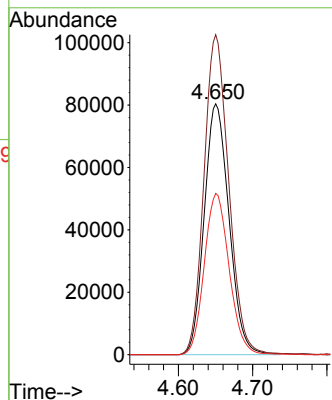
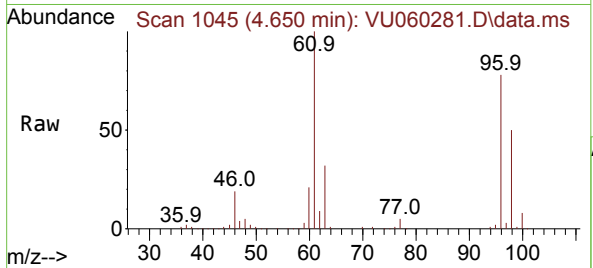




#20
cis-1,2-Dichloroethene
Concen: 104.763 ug/L
RT: 4.650 min Scan# 1045
Delta R.T. -0.006 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

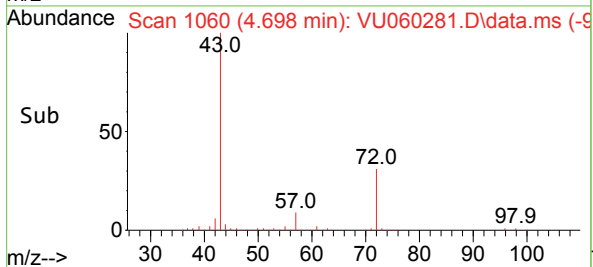
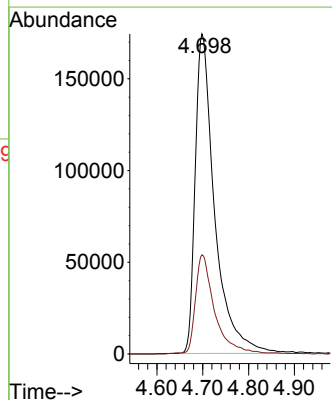
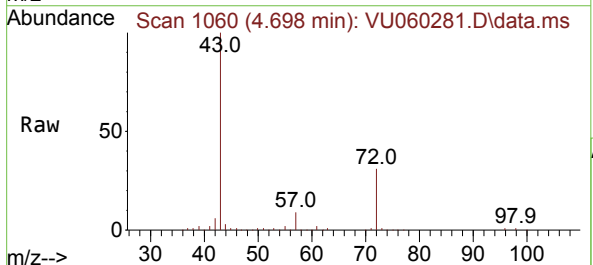
Instrument :
MSVOA_U
ClientSampleId :

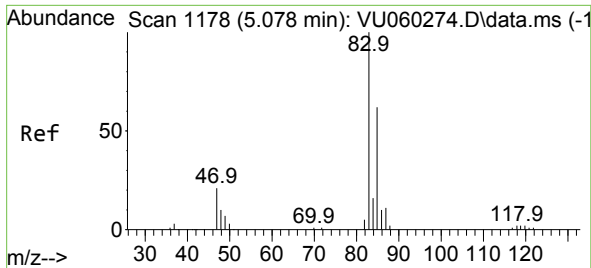
Tgt Ion: 96 Resp: 186811
Ion Ratio Lower Upper
96 100
61 127.6 83.2 154.4
98 64.3 45.9 85.3



#22
2-Butanone
Concen: 376.043 ug/L
RT: 4.698 min Scan# 1060
Delta R.T. 0.006 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

Tgt Ion: 43 Resp: 512837
Ion Ratio Lower Upper
43 100
72 29.1 16.4 49.2

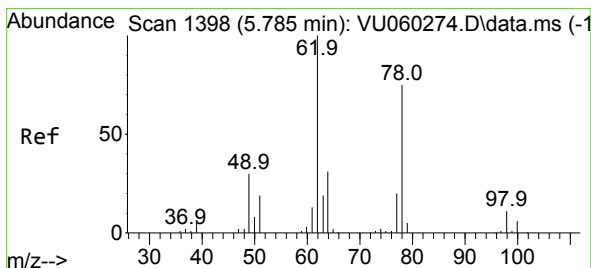
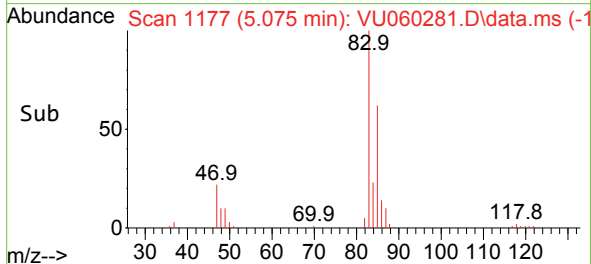
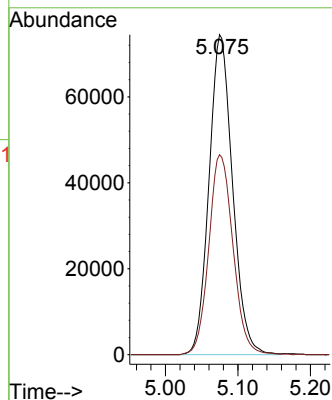
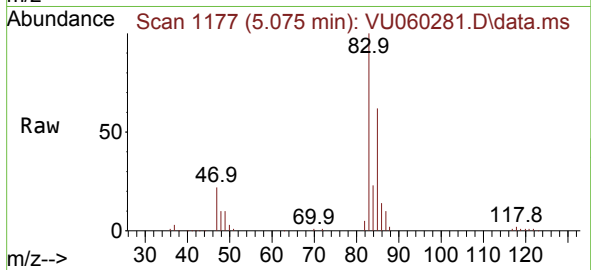




#25
Chloroform
Concen: 55.861 ug/L
RT: 5.075 min Scan# 1178
Delta R.T. -0.003 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

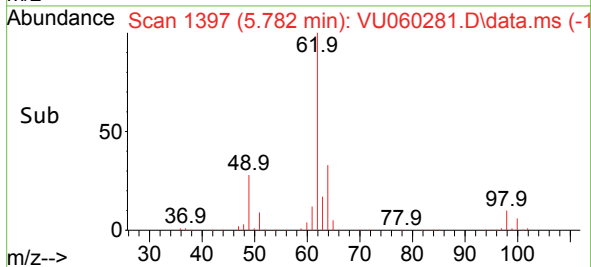
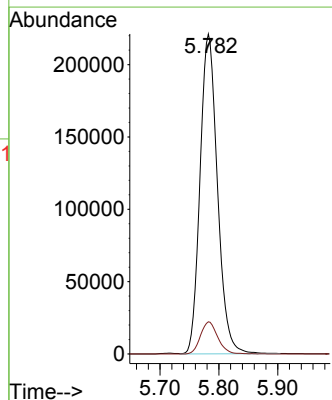
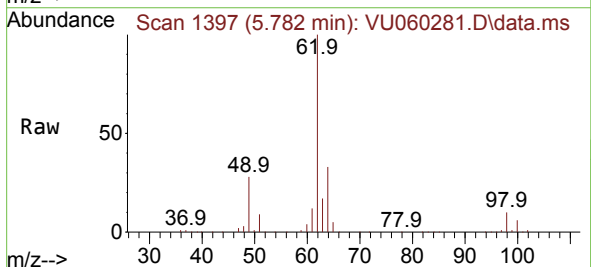
Instrument :
MSVOA_U
ClientSampleId :

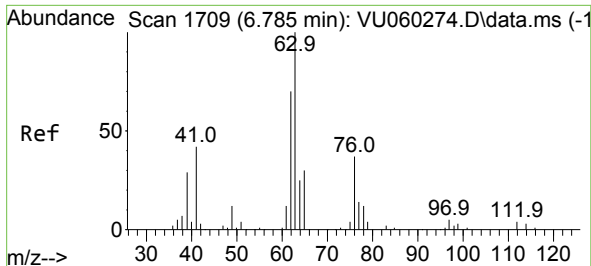
Tgt Ion: 83 Resp: 167890
Ion Ratio Lower Upper
83 100
85 62.5 46.7 86.7



#27
1,2-Dichloroethane
Concen: 199.185 ug/L
RT: 5.782 min Scan# 1397
Delta R.T. -0.003 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

Tgt Ion: 62 Resp: 454464
Ion Ratio Lower Upper
62 100
98 10.0 7.8 11.8





#37

1,2-Dichloropropane

Concen: 110.182 ug/L

RT: 6.782 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

Instrument :

MSVOA_U

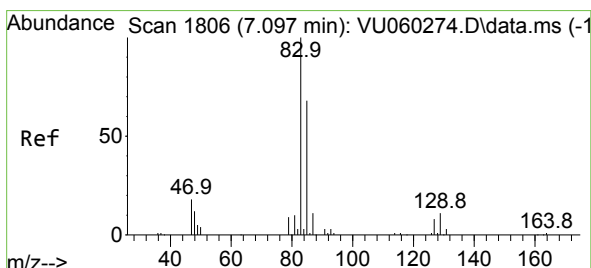
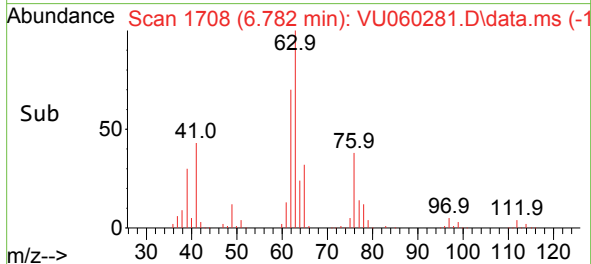
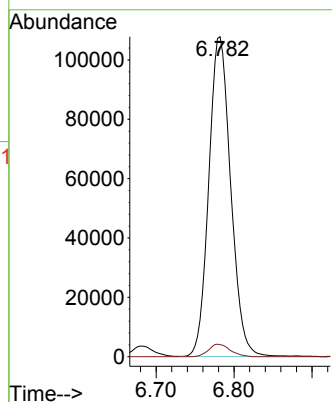
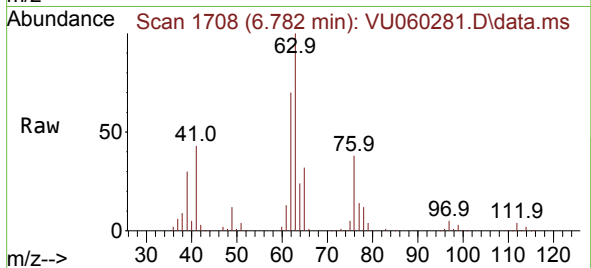
ClientSampleId :

Tgt Ion: 63 Resp: 210714

Ion Ratio Lower Upper

63 100

112 3.8 3.0 4.6



#38

Bromodichloromethane

Concen: 55.067 ug/L

RT: 7.097 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

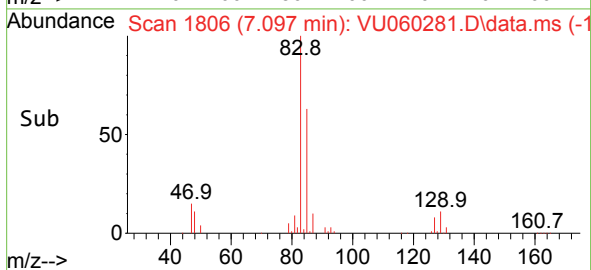
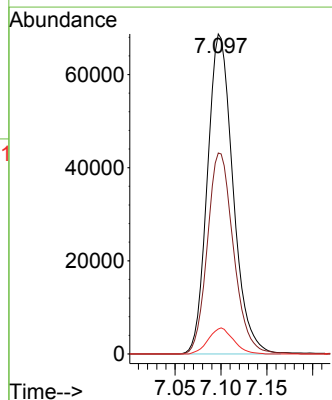
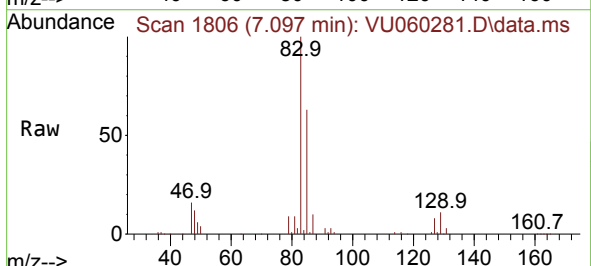
Tgt Ion: 83 Resp: 133436

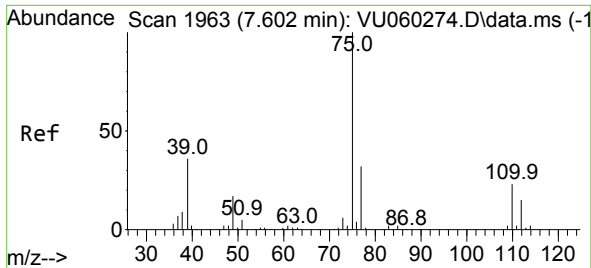
Ion Ratio Lower Upper

83 100

85 62.8 45.0 83.6

127 7.8 7.4 11.2

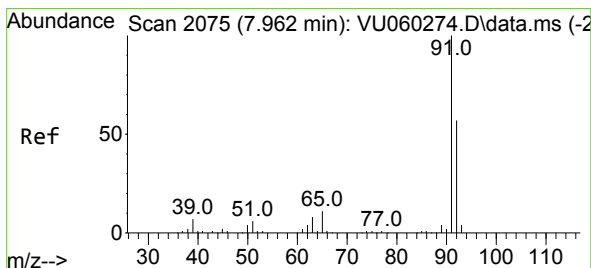
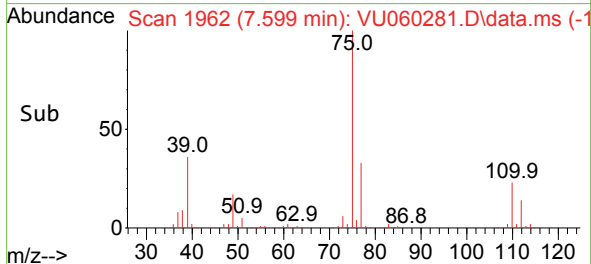
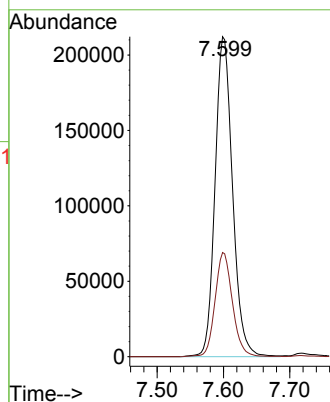
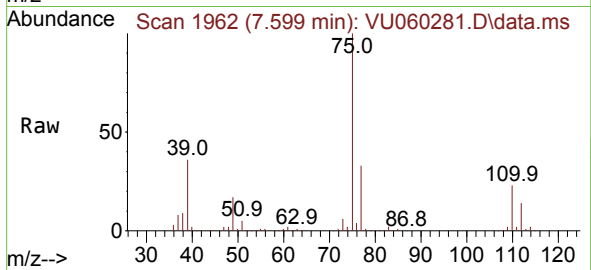




#39
cis-1,3-Dichloropropene
Concen: 132.682 ug/L
RT: 7.599 min Scan# 1962
Delta R.T. -0.003 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

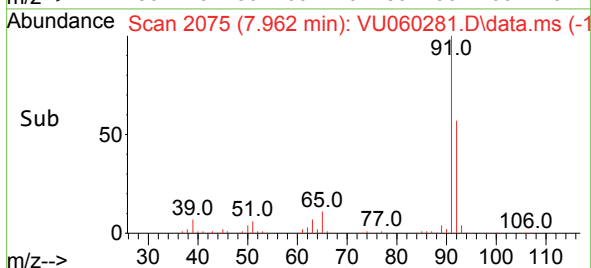
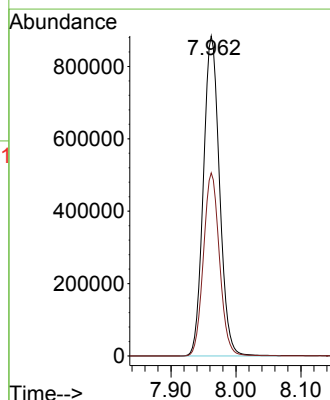
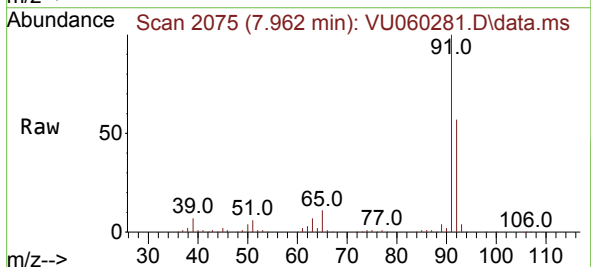
Instrument :
MSVOA_U
ClientSampleId :

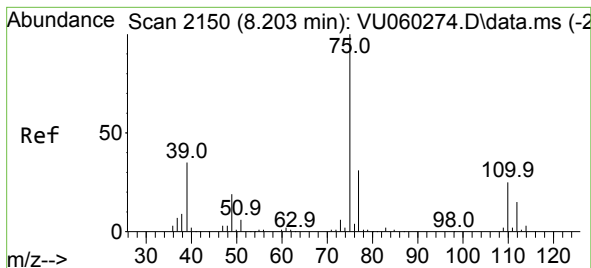
Tgt Ion: 75 Resp: 388223
Ion Ratio Lower Upper
75 100
77 32.5 21.6 40.2



#42
Toluene
Concen: 202.218 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. -0.000 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

Tgt Ion: 91 Resp: 1533820
Ion Ratio Lower Upper
91 100
92 57.2 39.3 72.9





#44

trans-1,3-Dichloropropene

Concen: 60.589 ug/L

RT: 8.206 min Scan# 2150

Delta R.T. 0.003 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

Instrument :

MSVOA_U

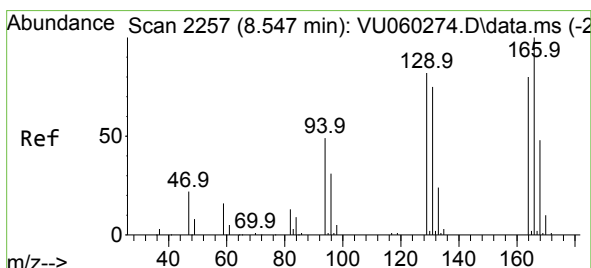
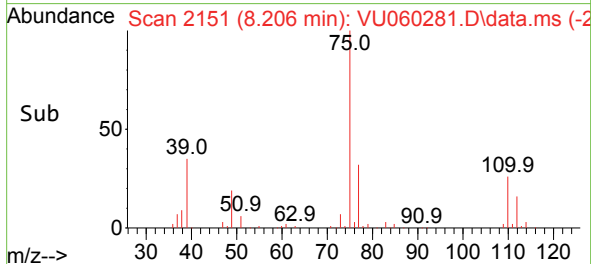
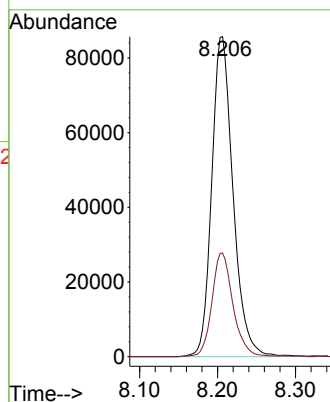
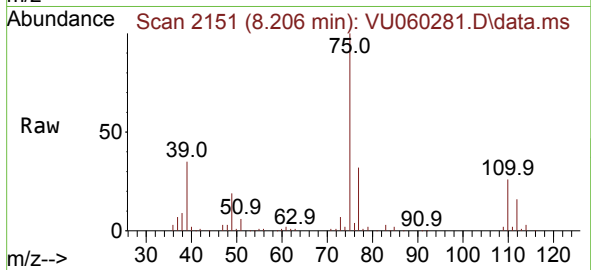
ClientSampleId :

Tgt Ion: 75 Resp: 162843

Ion Ratio Lower Upper

75 100

77 32.4 21.7 40.3



#46

Tetrachloroethene

Concen: 76.707 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

Tgt Ion: 164 Resp: 116999

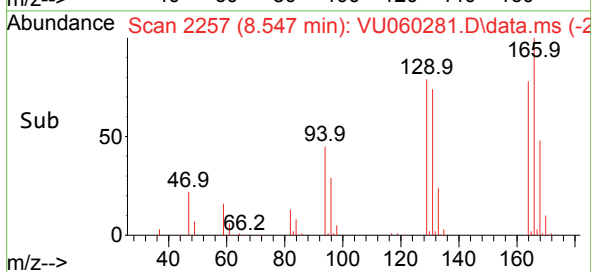
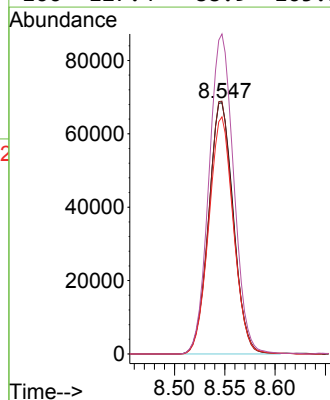
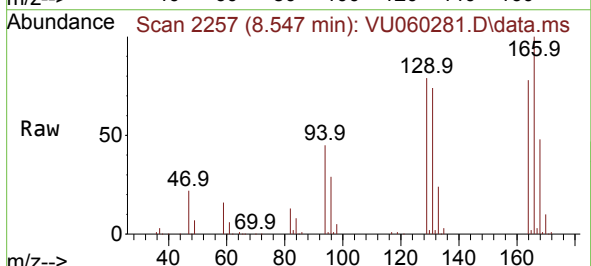
Ion Ratio Lower Upper

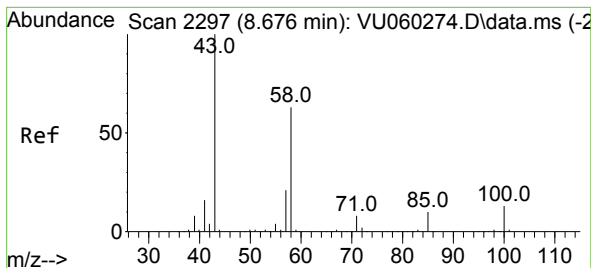
164 100

129 100.7 62.7 116.5

131 94.4 62.3 115.7

166 127.4 88.9 165.1





#48

2-Hexanone

Concen: 468.781 ug/L

RT: 8.689 min Scan# 21

Delta R.T. 0.013 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 43 Resp: 948310

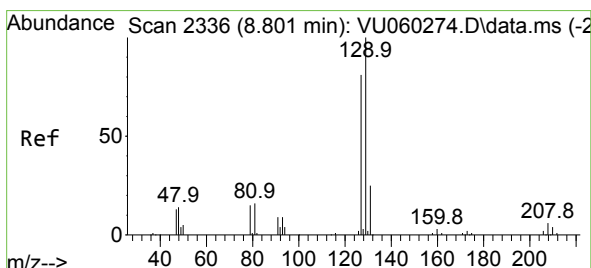
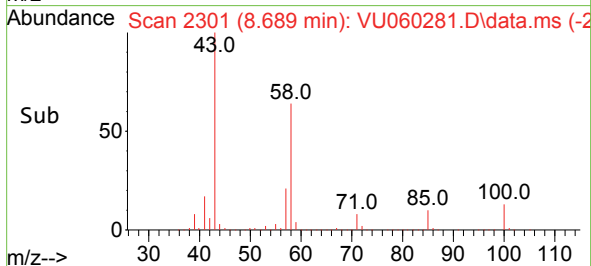
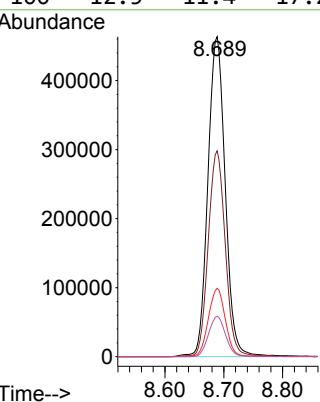
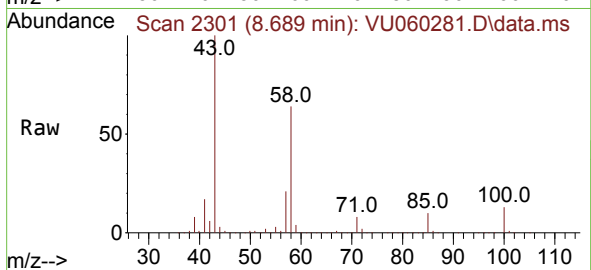
Ion Ratio Lower Upper

43 100

58 63.5 49.0 73.6

57 20.7 16.7 25.1

100 12.5 11.4 17.2



#49

Dibromochloromethane

Concen: 24.620 ug/L

RT: 8.808 min Scan# 2338

Delta R.T. 0.006 min

Lab File: VU060281.D

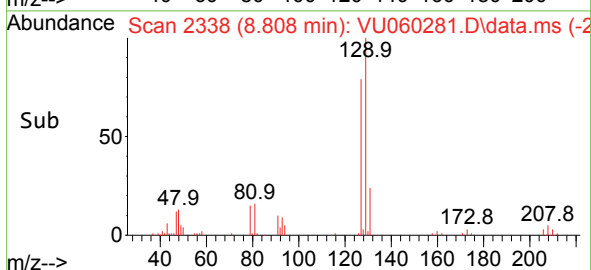
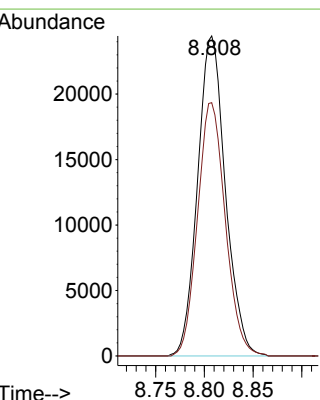
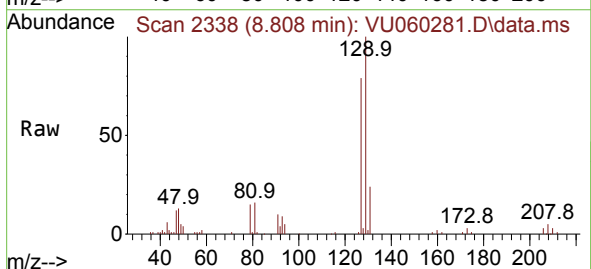
Acq: 31 Jul 2024 14:01

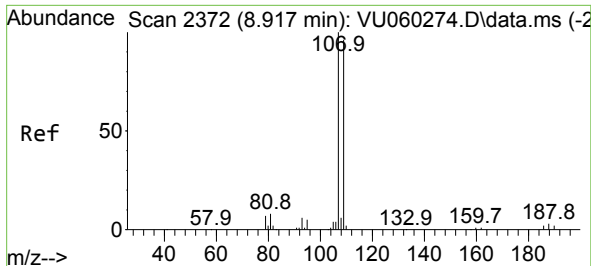
Tgt Ion:129 Resp: 48584

Ion Ratio Lower Upper

129 100

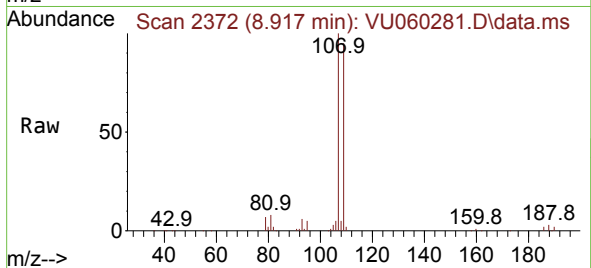
127 79.1 54.0 100.2



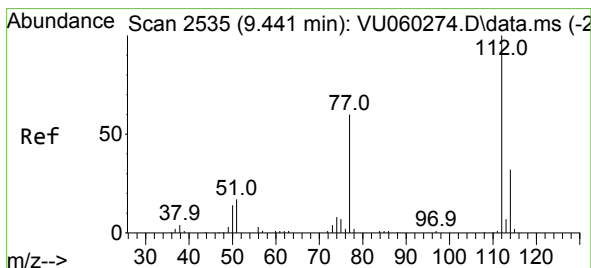
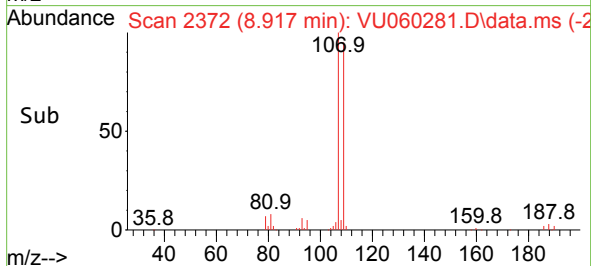
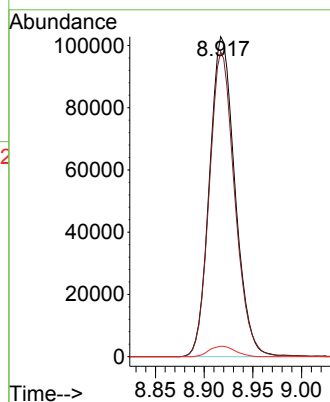


#50
1,2-Dibromoethane
Concen: 89.127 ug/L
RT: 8.917 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

Instrument :
MSVOA_U
ClientSampleId :

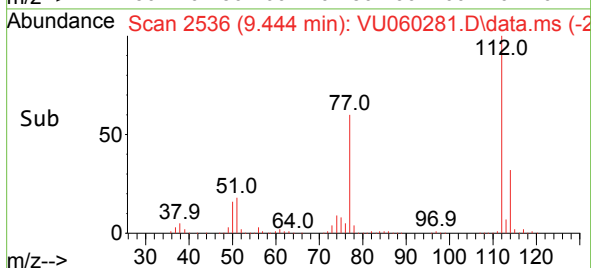
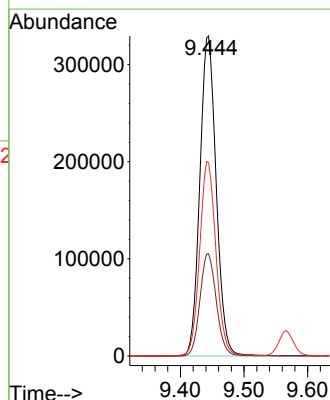
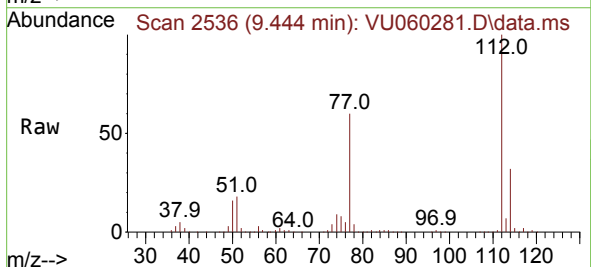


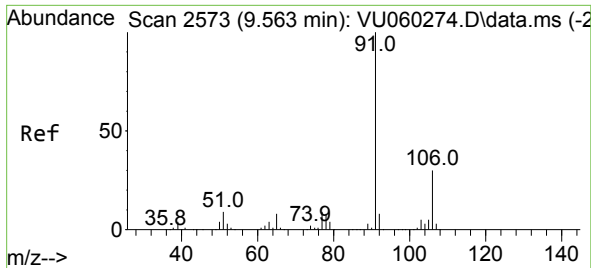
Tgt Ion:107 Resp: 186639
Ion Ratio Lower Upper
107 100
109 95.3 65.5 121.6
188 3.3 3.0 4.4



#51
Chlorobenzene
Concen: 116.804 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.003 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

Tgt Ion:112 Resp: 588167
Ion Ratio Lower Upper
112 100
114 31.9 22.7 42.3
77 60.4 45.8 68.6

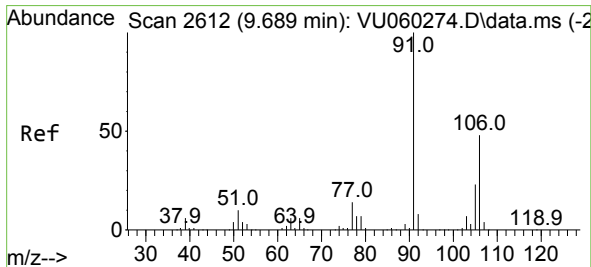
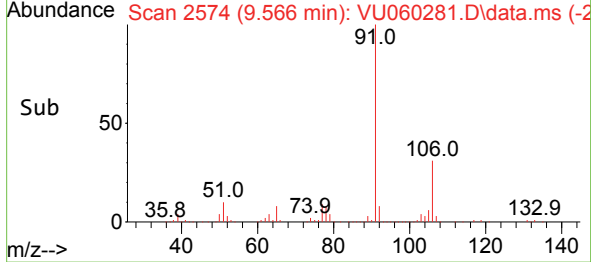
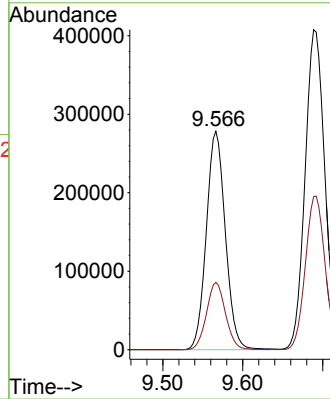
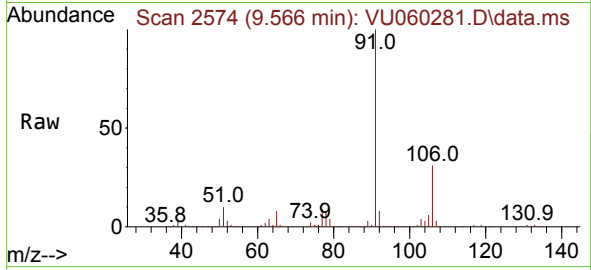




#52
Ethylbenzene
Concen: 56.853 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.003 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

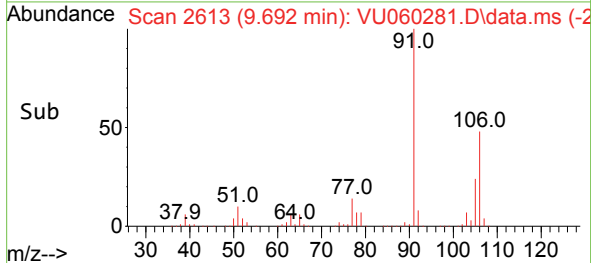
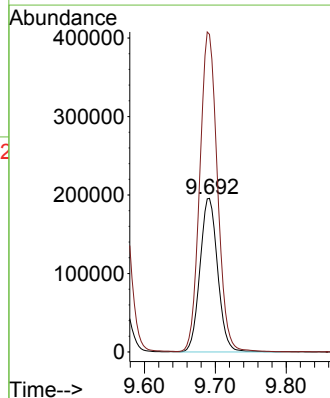
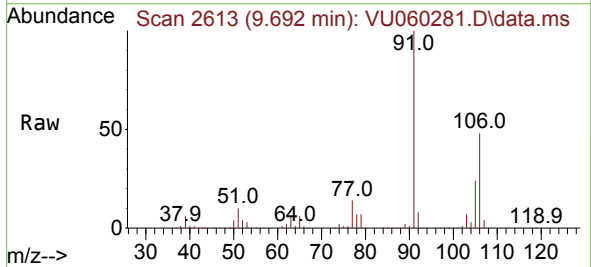
Instrument :
MSVOA_U
ClientSampleId :

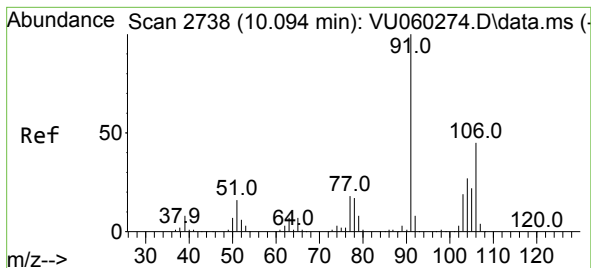
Tgt Ion: 91 Resp: 460507
Ion Ratio Lower Upper
91 100
106 30.8 22.4 41.6



#53
m,p-Xylene
Concen: 107.523 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.003 min
Lab File: VU060281.D
Acq: 31 Jul 2024 14:01

Tgt Ion: 106 Resp: 339107
Ion Ratio Lower Upper
106 100
91 206.8 140.9 261.7





#54

o-Xylene

Concen: 37.158 ug/L

RT: 10.097 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

Instrument :

MSVOA_U

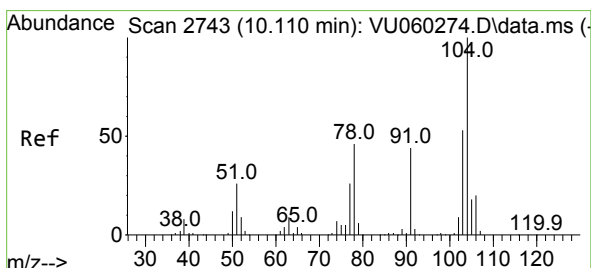
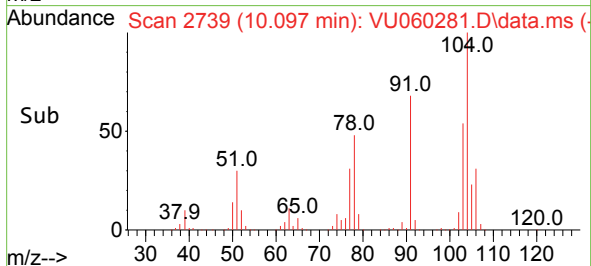
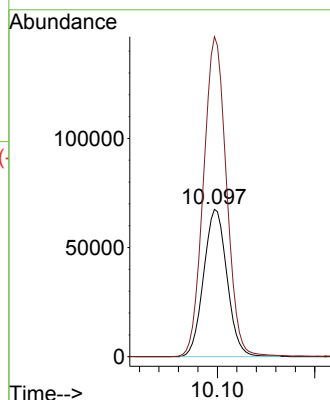
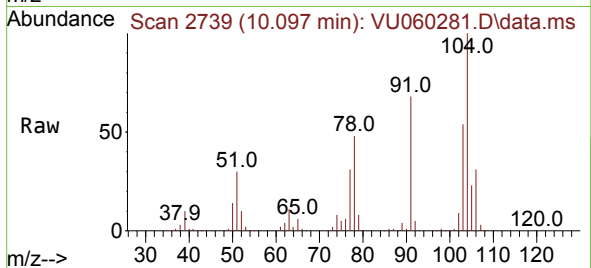
ClientSampleId :

Tgt Ion:106 Resp: 112690

Ion Ratio Lower Upper

106 100

91 217.1 147.4 273.8



#55

Styrene

Concen: 205.234 ug/L

RT: 10.113 min Scan# 2744

Delta R.T. 0.003 min

Lab File: VU060281.D

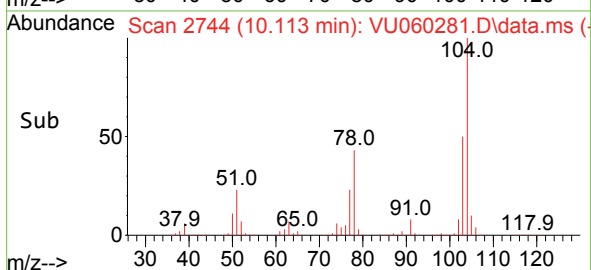
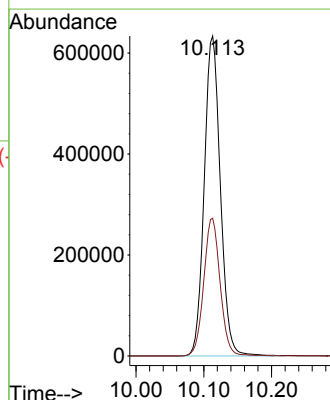
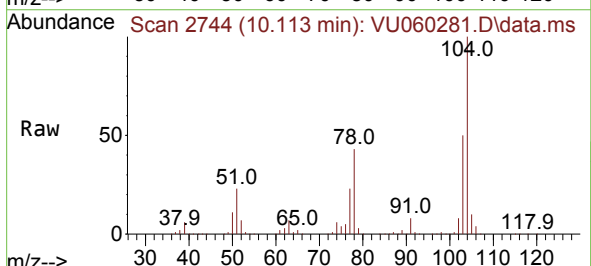
Acq: 31 Jul 2024 14:01

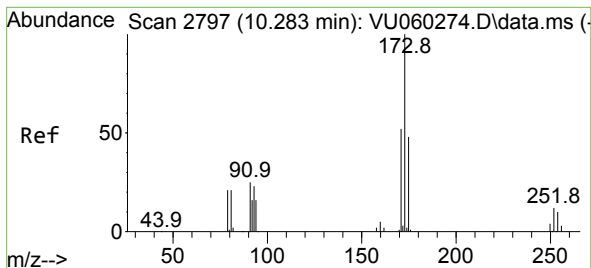
Tgt Ion:104 Resp: 1050075

Ion Ratio Lower Upper

104 100

78 43.0 30.9 57.5





#59

Bromoform

Concen: 62.000 ug/L

RT: 10.290 min Scan# 21

Delta R.T. 0.006 min

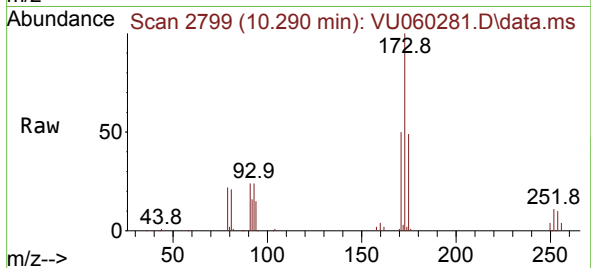
Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

Instrument :

MSVOA_U

ClientSampleId :



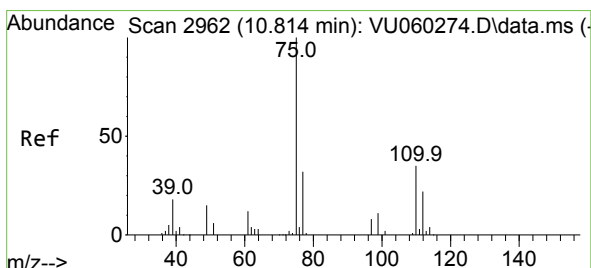
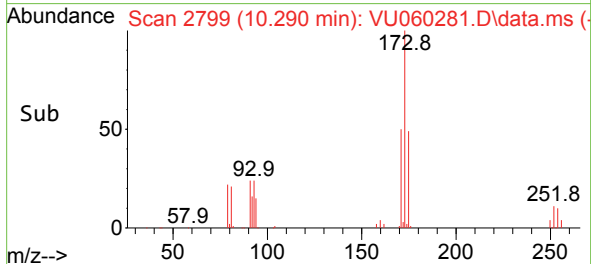
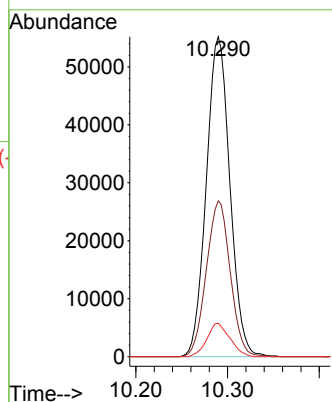
Tgt Ion:173 Resp: 98838

Ion Ratio Lower Upper

173 100

175 49.2 39.4 59.2

254 10.2 9.0 13.4



#60

1,2,3-Trichloropropane

Concen: 237.452 ug/L

RT: 10.820 min Scan# 2964

Delta R.T. 0.006 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

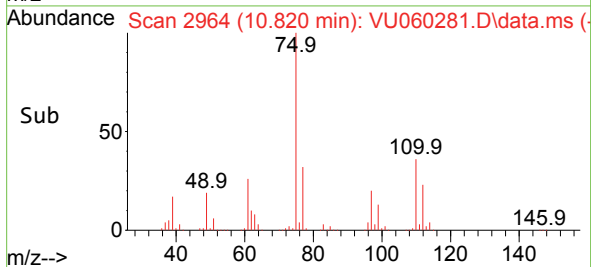
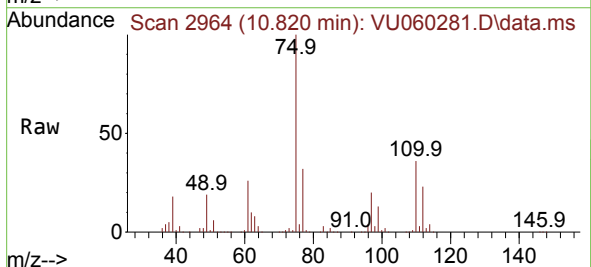
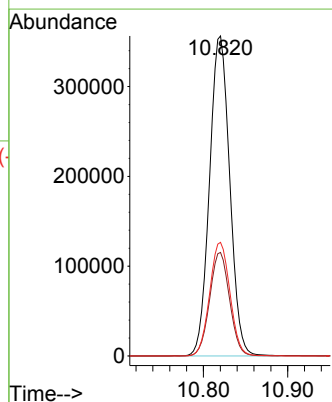
Tgt Ion: 75 Resp: 594150

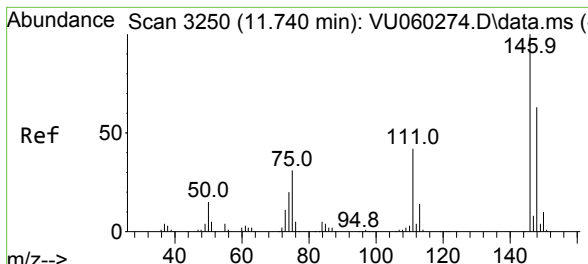
Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3

110 35.7 30.7 46.1





#64

1,3-Dichlorobenzene

Concen: 105.615 ug/L

RT: 11.743 min Scan# 31

Delta R.T. 0.003 min

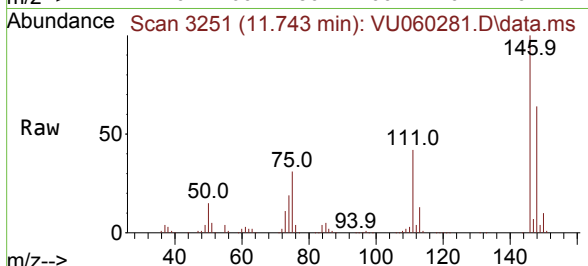
Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

Instrument :

MSVOA_U

ClientSampleId :



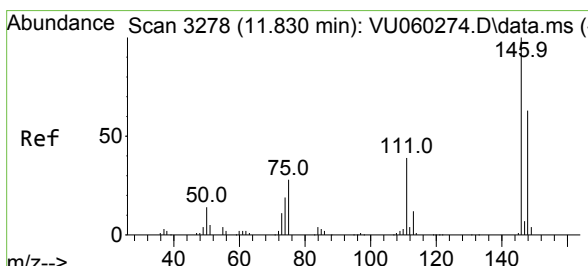
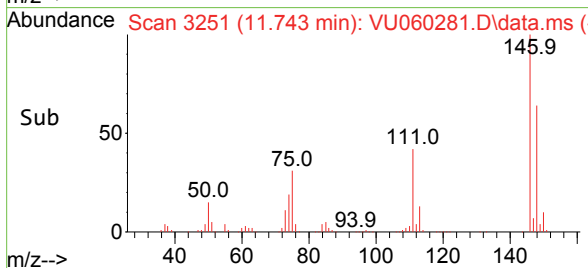
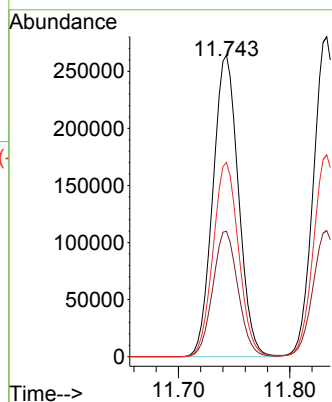
Tgt Ion:146 Resp: 420954

Ion Ratio Lower Upper

146 100

111 41.6 26.5 49.1

148 64.4 43.8 81.3



#65

1,4-Dichlorobenzene

Concen: 107.742 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. 0.003 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

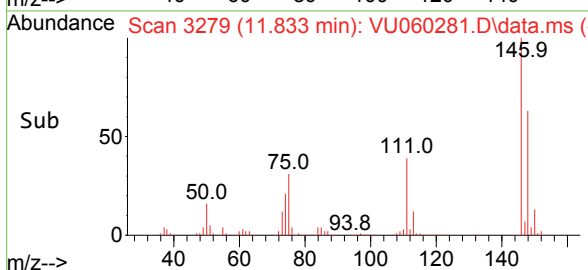
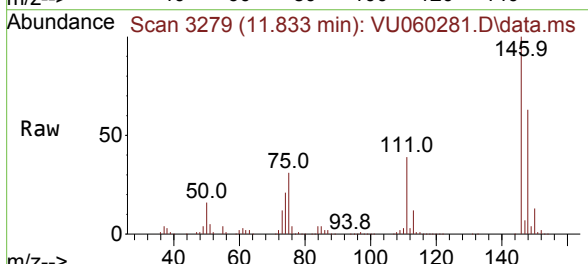
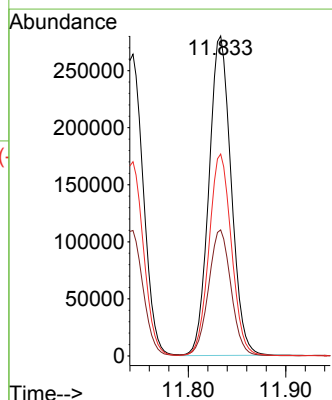
Tgt Ion:146 Resp: 443929

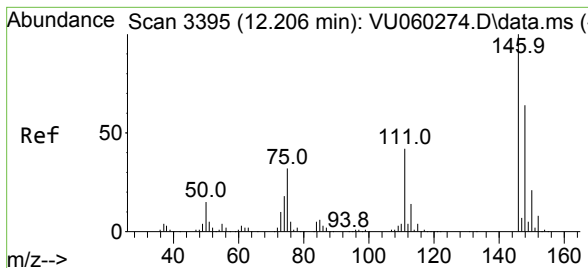
Ion Ratio Lower Upper

146 100

111 39.4 25.9 48.1

148 63.1 44.0 81.8





#67

1,2-Dichlorobenzene

Concen: 151.142 ug/L

RT: 12.209 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

Instrument :

MSVOA_U

ClientSampleId :

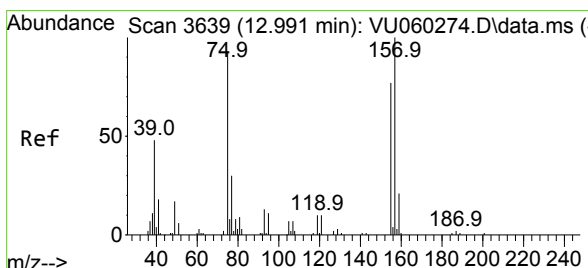
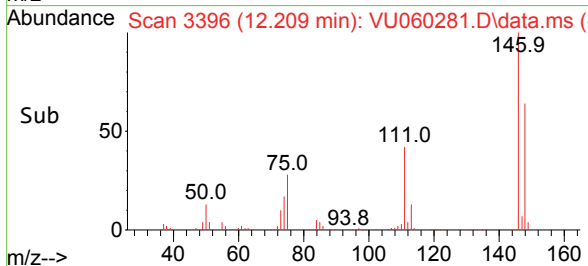
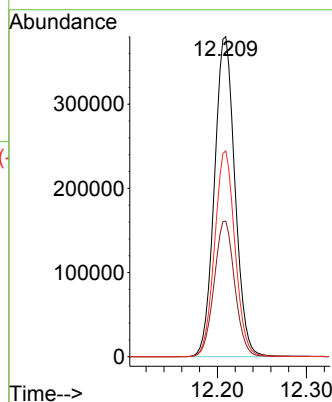
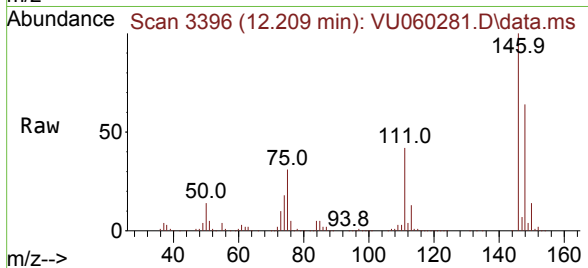
Tgt Ion:146 Resp: 608558

Ion Ratio Lower Upper

146 100

111 42.3 31.7 47.5

148 64.3 50.8 76.2



#68

1,2-Dibromo-3-chloropropane

Concen: 137.004 ug/L

RT: 12.991 min Scan# 3639

Delta R.T. -0.000 min

Lab File: VU060281.D

Acq: 31 Jul 2024 14:01

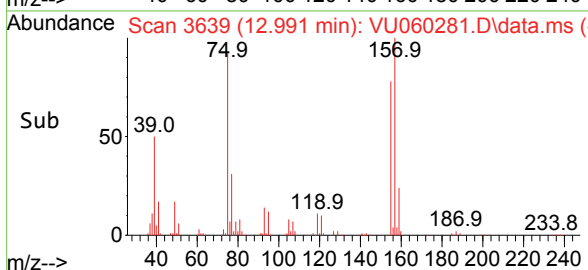
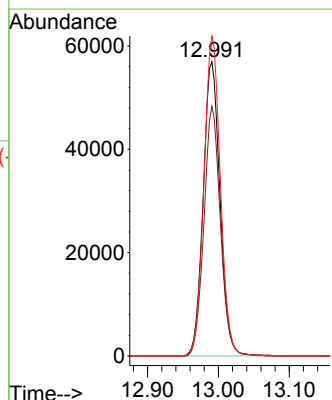
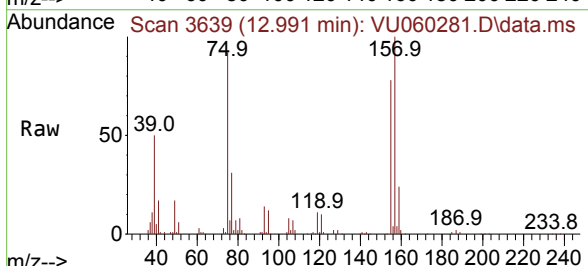
Tgt Ion: 75 Resp: 93751

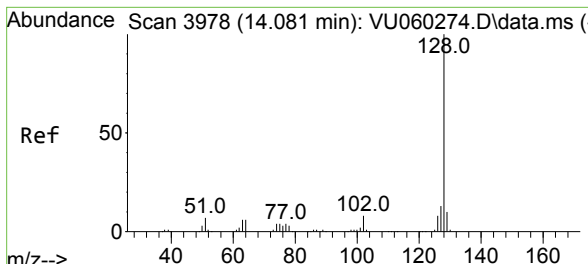
Ion Ratio Lower Upper

75 100

155 84.8 73.5 110.3

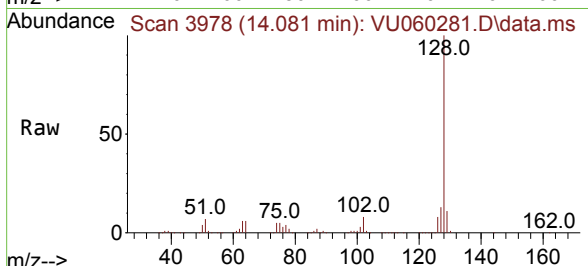
157 108.8 93.5 140.3





#71
 Naphthalene
 Concen: 129.320 ug/L
 RT: 14.081 min Scan# 3978
 Delta R.T. -0.000 min
 Lab File: VU060281.D
 Acq: 31 Jul 2024 14:01

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	128	Resp:	967952
Ion Ratio	100	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	11.0	8.6	13.0

