

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U073124\
 Data File : U060283.D
 Acq On : 31 Jul 2024 14:52
 Operator : MD/SY
 Sample : P3287-05DL 5X
 Misc : 10.00g/10.0mL//100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 01 00:22:46 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	6.242	114	230741	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	238667	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	110986	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	79307	53.531	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.060%
7) Chloroethane-d5	1.888	69	59798	47.986	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.980%
11) 1,1-Dichloroethene-d2	2.554	63	92903	35.298	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.600%
21) 2-Butanone-d5	4.615	46	103273	100.305	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.300%
24) Chloroform-d	5.052	84	124572	43.420	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.840%
26) 1,2-Dichloroethane-d4	5.692	65	76473	44.829	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.660%
32) Benzene-d6	5.718	84	257988	42.213	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.420%
36) 1,2-Dichloropropane-d6	6.682	67	85965	45.448	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.900%
41) Toluene-d8	7.891	98	219908	37.837	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	75.680##
43) trans-1,3-Dichloroprop...	8.174	79	37525	42.396	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.800%
47) 2-Hexanone-d5	8.627	63	62578	78.501	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	78.500%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	131032	45.133	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.260%
66) 1,2-Dichlorobenzene-d4	12.190	152	87989	43.143	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.280%
Target Compounds						Qvalue
13) Acetone	2.618	43	59183	55.822	ug/L	95
15) Methyl Acetate	2.949	43	4074	2.549	ug/L #	87
16) Methylene chloride	3.036	84	67757	39.274	ug/L	95
18) Methyl tert-butyl Ether	3.354	73	40330	8.816	ug/L	99
20) cis-1,2-Dichloroethene	4.657	96	35979	21.095	ug/L	95
22) 2-Butanone	4.695	43	86725	66.486	ug/L	98
25) Chloroform	5.078	83	33304	11.585	ug/L	95
27) 1,2-Dichloroethane	5.785	62	87907	40.282	ug/L	98
37) 1,2-Dichloropropane	6.782	63	41880	23.608	ug/L #	95
38) Bromodichloromethane	7.097	83	26512	11.795	ug/L	99
39) cis-1,3-Dichloropropene	7.602	75	71511	26.347	ug/L	100
42) Toluene	7.962	91	282824	40.197	ug/L	100
44) trans-1,3-Dichloropropene	8.206	75	30587	12.269	ug/L	94
46) Tetrachloroethene	8.547	164	23580	16.666	ug/L	94
48) 2-Hexanone	8.679	43	164593	87.713	ug/L #	98
49) Dibromochloromethane	8.804	129	9077	4.959	ug/L	93
50) 1,2-Dibromoethane	8.917	107	35673	18.365	ug/L	98
51) Chlorobenzene	9.441	112	110462	23.649	ug/L	97
52) Ethylbenzene	9.566	91	79674	10.604	ug/L	100

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

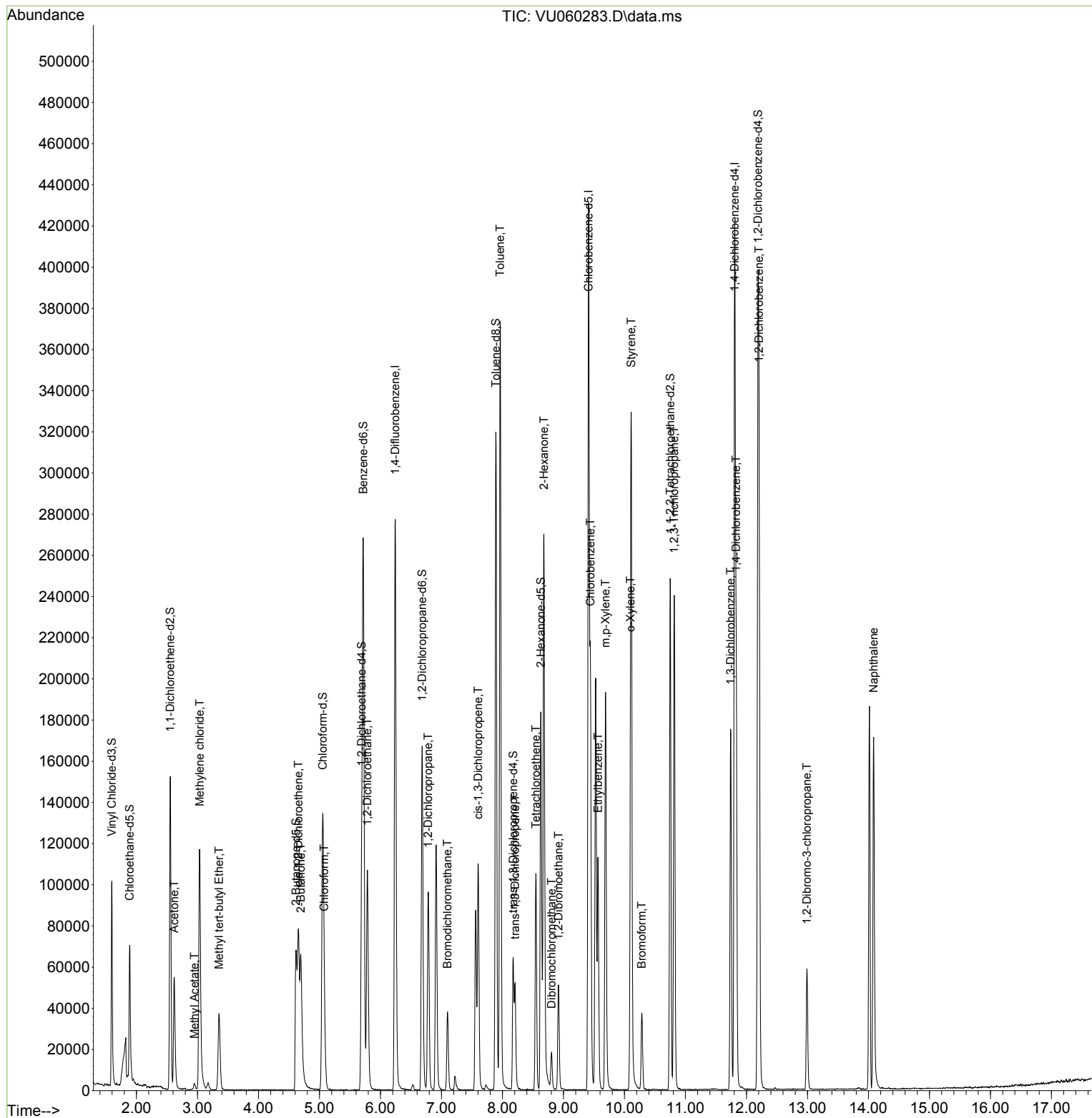
53) m,p-Xylene	9.689	106	56052	19.160	ug/L	92
54) o-Xylene	10.097	106	18014	6.403	ug/L	92
55) Styrene	10.110	104	160077	33.728	ug/L	96
59) Bromoform	10.283	173	17173	12.797	ug/L	98
60) 1,2,3-Trichloropropane	10.814	75	106413	50.520	ug/L	96
64) 1,3-Dichlorobenzene	11.740	146	75169	22.404	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	77151	22.243	ug/L	98
67) 1,2-Dichlorobenzene	12.206	146	111146	32.792	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.991	75	16624	28.859	ug/L	91
71) Naphthalene	14.084	128	152877	24.263	ug/L	99

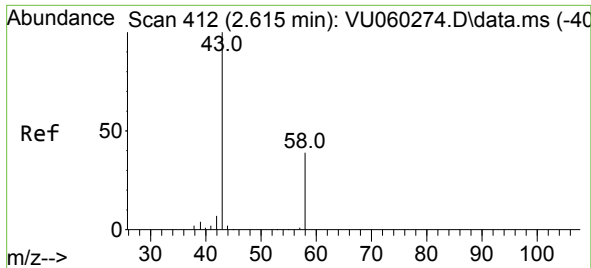
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 55.822 ug/L

RT: 2.618 min Scan# 41

Delta R.T. 0.003 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Instrument :

MSVOA_U

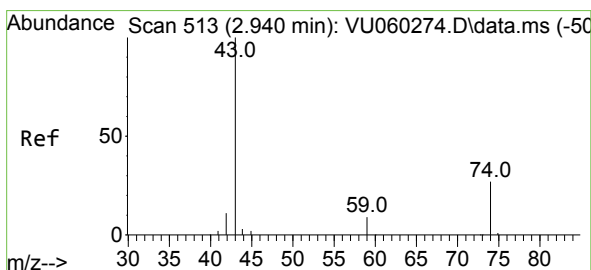
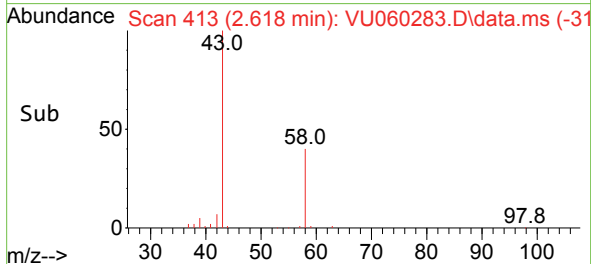
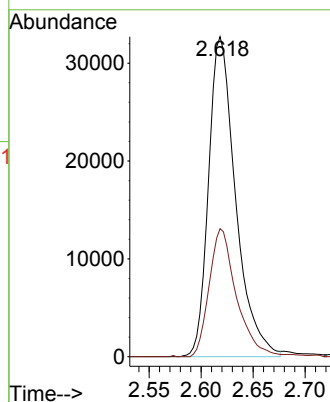
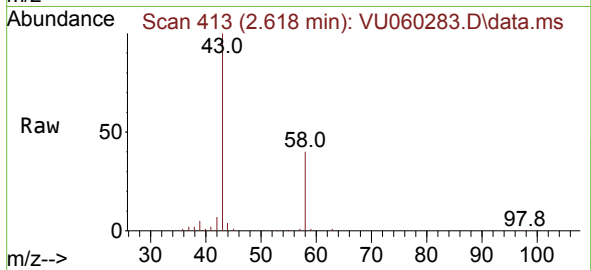
ClientSampleId :

Tgt Ion: 43 Resp: 59183

Ion Ratio Lower Upper

43 100

58 40.1 0.0 73.8



#15

Methyl Acetate

Concen: 2.549 ug/L

RT: 2.949 min Scan# 516

Delta R.T. 0.010 min

Lab File: VU060283.D

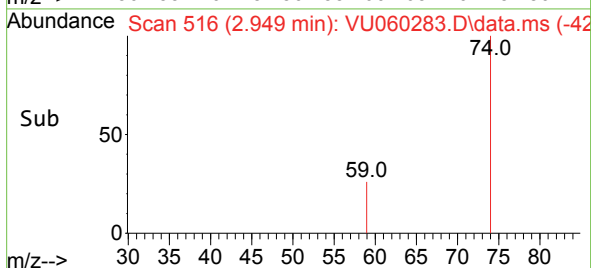
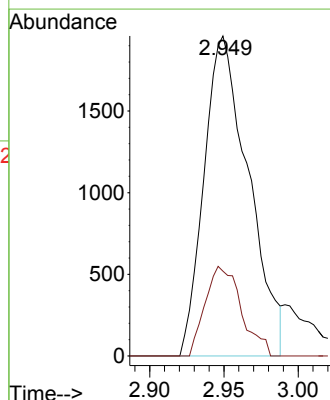
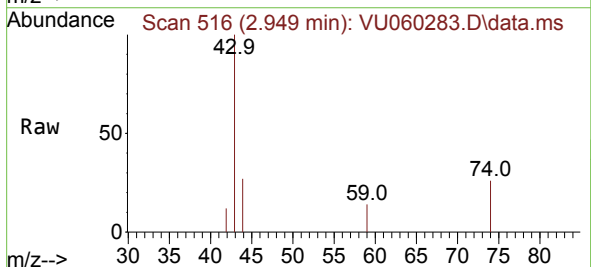
Acq: 31 Jul 2024 14:52

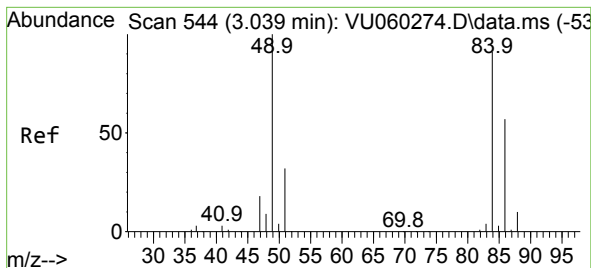
Tgt Ion: 43 Resp: 4074

Ion Ratio Lower Upper

43 100

74 22.8 24.1 36.1#





#16

Methylene chloride

Concen: 39.274 ug/L

RT: 3.036 min Scan# 544

Delta R.T. -0.003 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Instrument :

MSVOA_U

ClientSampleId :

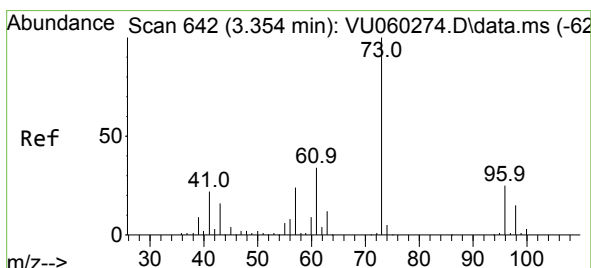
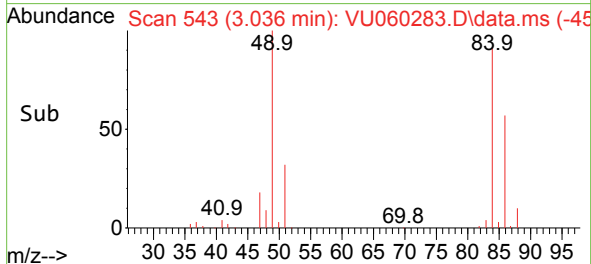
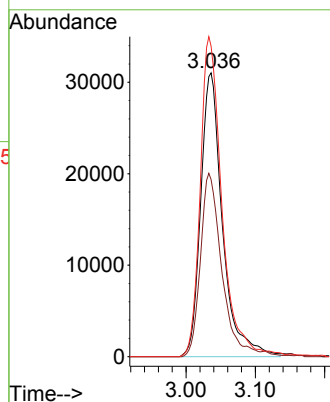
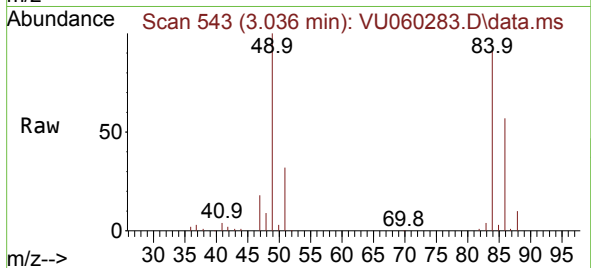
Tgt Ion: 84 Resp: 67757

Ion Ratio Lower Upper

84 100

86 62.4 44.7 83.1

49 109.5 71.6 133.0



#18

Methyl tert-butyl Ether

Concen: 8.816 ug/L

RT: 3.354 min Scan# 642

Delta R.T. -0.000 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

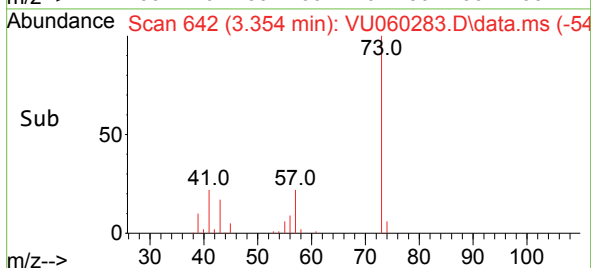
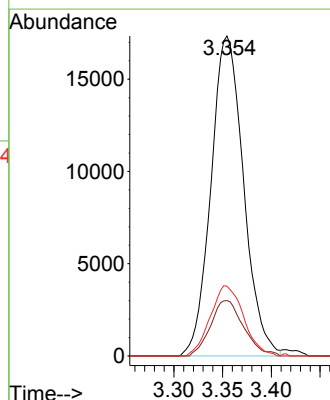
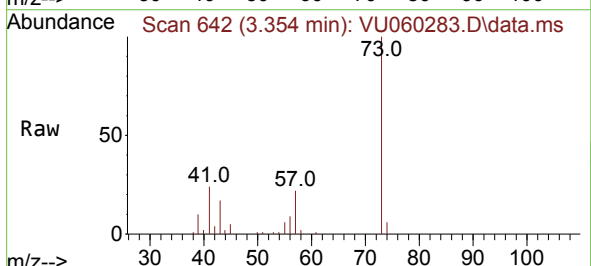
Tgt Ion: 73 Resp: 40330

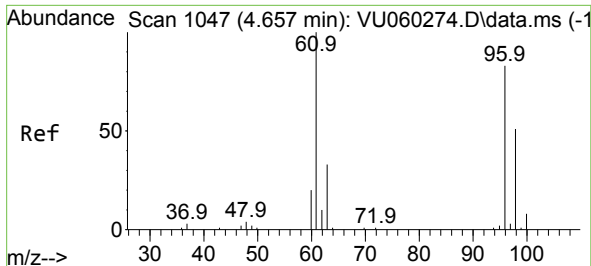
Ion Ratio Lower Upper

73 100

43 17.3 14.1 21.1

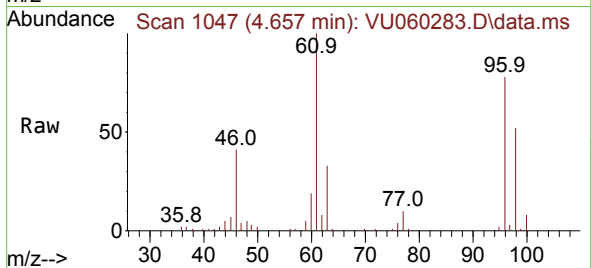
57 22.4 17.1 25.7





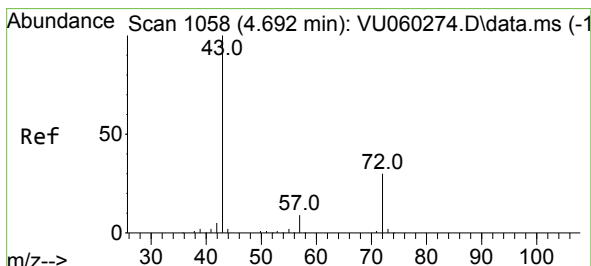
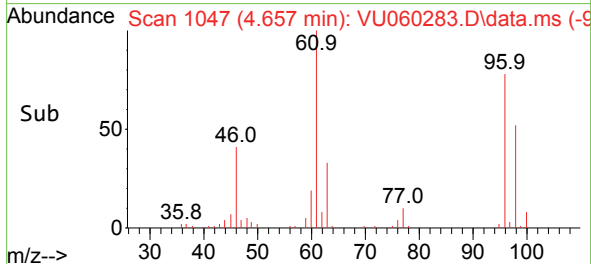
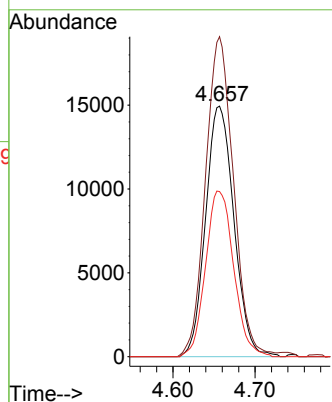
#20
 cis-1,2-Dichloroethene
 Concen: 21.095 ug/L
 RT: 4.657 min Scan# 1047
 Delta R.T. -0.000 min
 Lab File: VU060283.D
 Acq: 31 Jul 2024 14:52

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 96 Resp: 35979

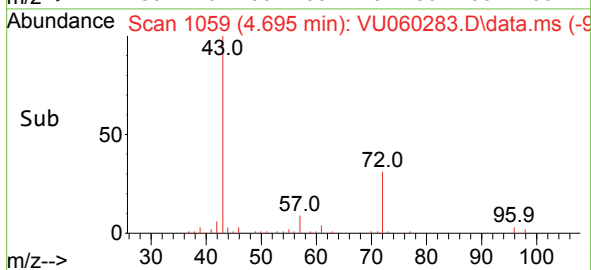
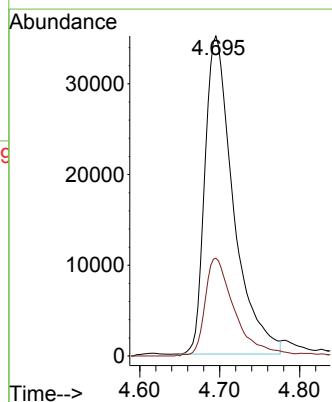
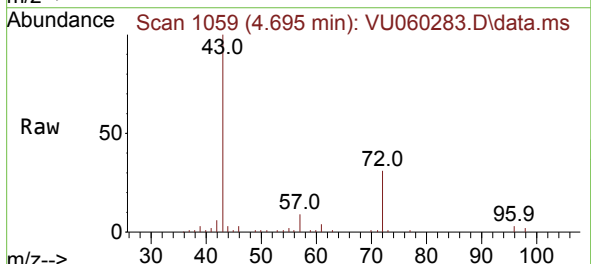
Ion	Ratio	Lower	Upper
96	100		
61	127.7	83.2	154.4
98	65.9	45.9	85.3

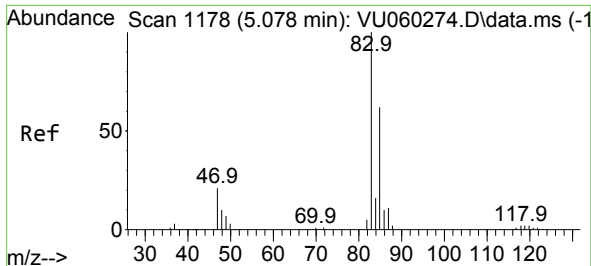


#22
 2-Butanone
 Concen: 66.486 ug/L
 RT: 4.695 min Scan# 1059
 Delta R.T. 0.003 min
 Lab File: VU060283.D
 Acq: 31 Jul 2024 14:52

Tgt Ion: 43 Resp: 86725

Ion	Ratio	Lower	Upper
43	100		
72	31.9	16.4	49.2





#25

Chloroform

Concen: 11.585 ug/L

RT: 5.078 min Scan# 1178

Delta R.T. -0.000 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Instrument :

MSVOA_U

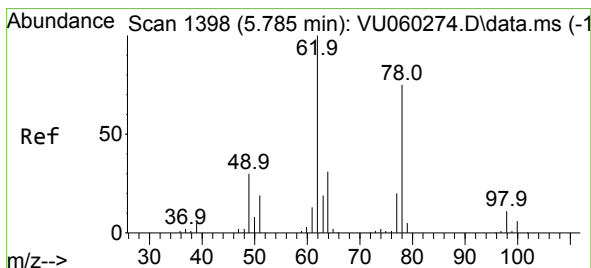
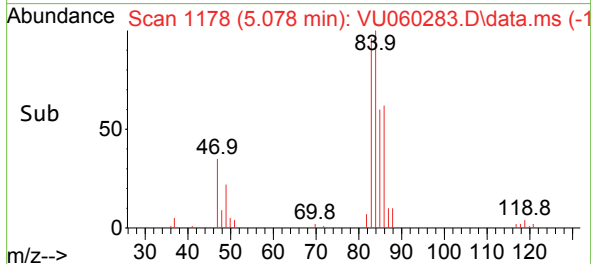
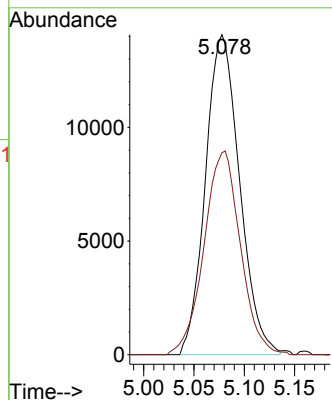
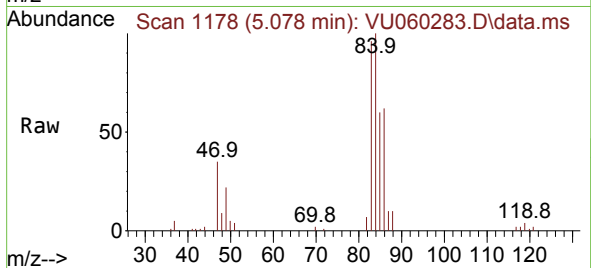
ClientSampleId :

Tgt Ion: 83 Resp: 33304

Ion Ratio Lower Upper

83 100

85 63.1 46.7 86.7



#27

1,2-Dichloroethane

Concen: 40.282 ug/L

RT: 5.785 min Scan# 1398

Delta R.T. -0.000 min

Lab File: VU060283.D

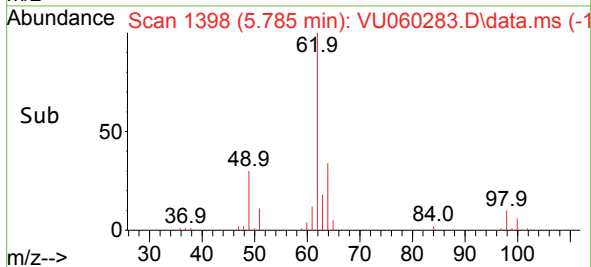
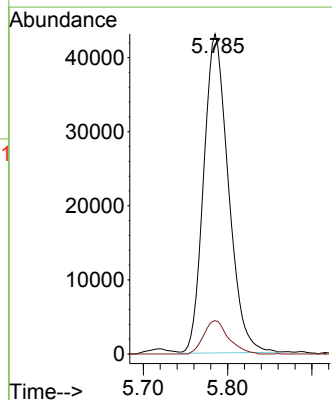
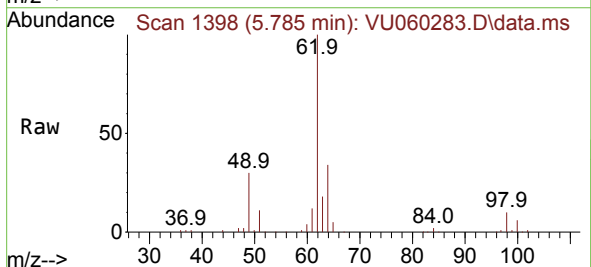
Acq: 31 Jul 2024 14:52

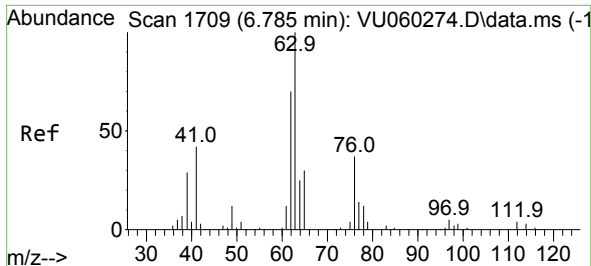
Tgt Ion: 62 Resp: 87907

Ion Ratio Lower Upper

62 100

98 10.4 7.8 11.8





#37

1,2-Dichloropropane

Concen: 23.608 ug/L

RT: 6.782 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Instrument :

MSVOA_U

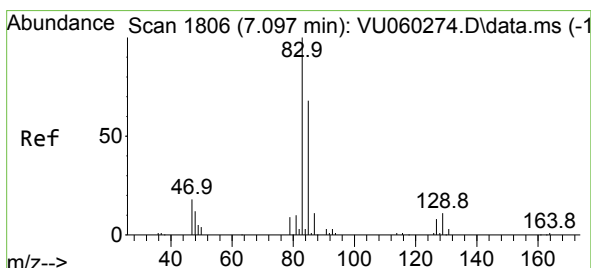
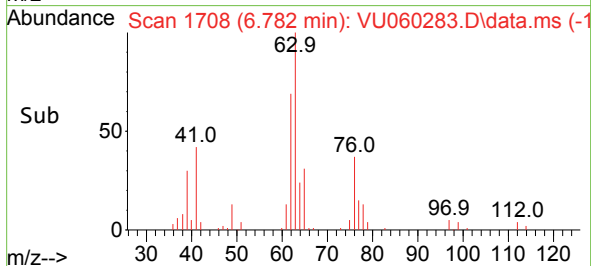
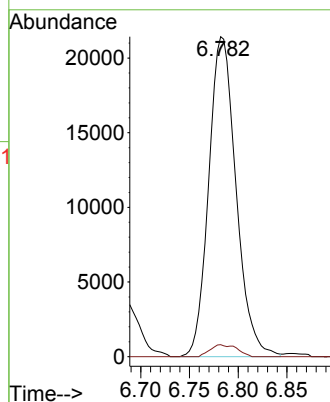
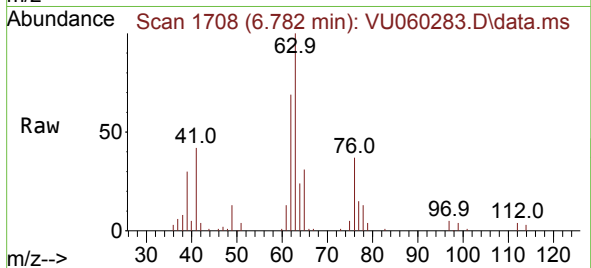
ClientSampleId :

Tgt Ion: 63 Resp: 41880

Ion Ratio Lower Upper

63 100

112 2.3 3.0 4.6#



#38

Bromodichloromethane

Concen: 11.795 ug/L

RT: 7.097 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

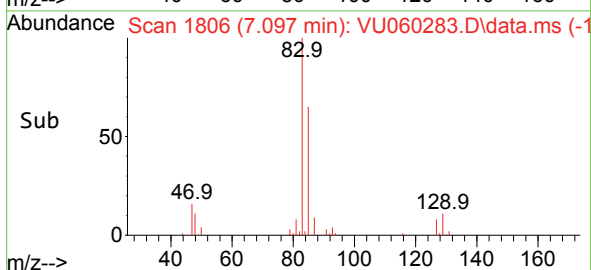
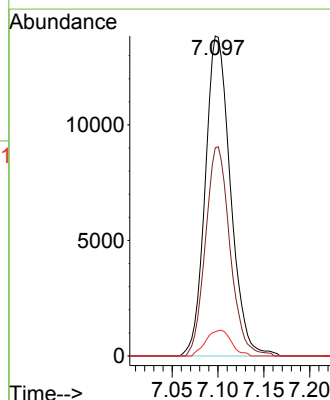
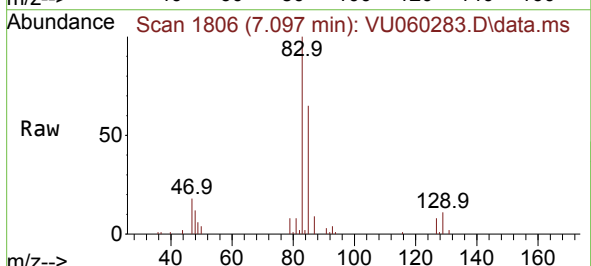
Tgt Ion: 83 Resp: 26512

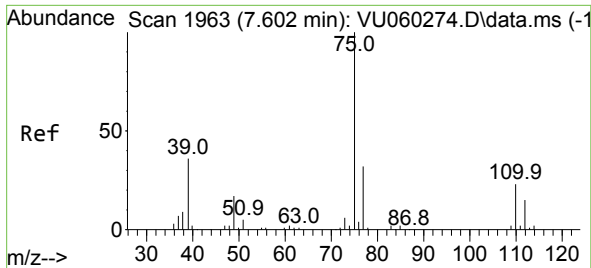
Ion Ratio Lower Upper

83 100

85 65.0 45.0 83.6

127 7.6 7.4 11.2

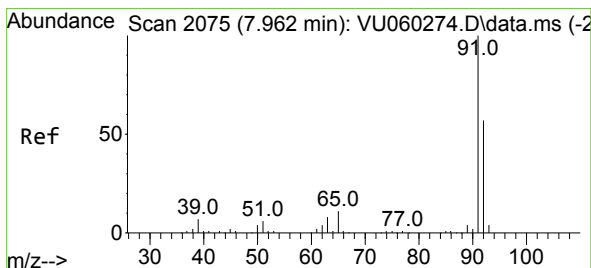
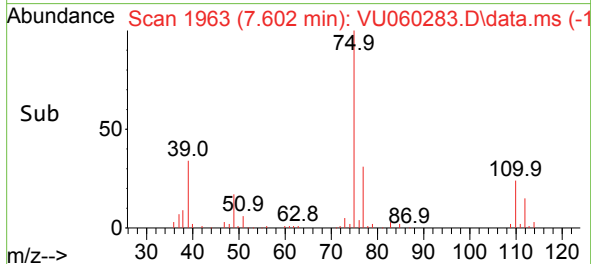
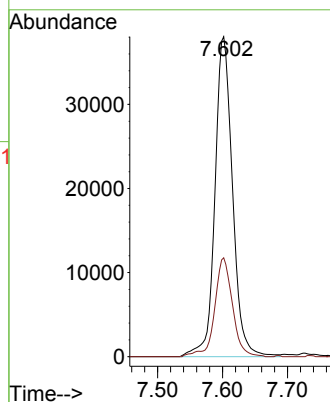
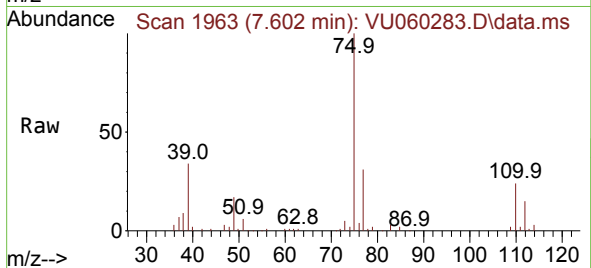




#39
 cis-1,3-Dichloropropene
 Concen: 26.347 ug/L
 RT: 7.602 min Scan# 1963
 Delta R.T. -0.000 min
 Lab File: VU060283.D
 Acq: 31 Jul 2024 14:52

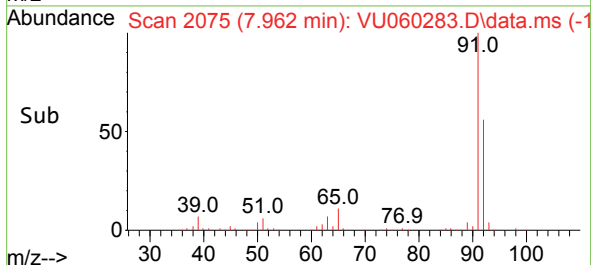
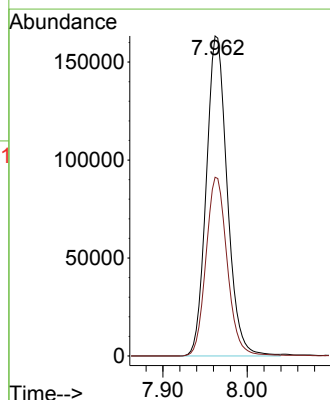
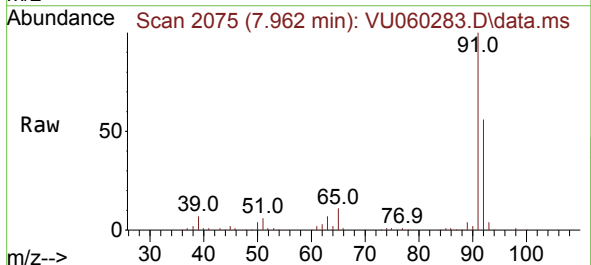
Instrument :
 MSVOA_U
 ClientSampleId :

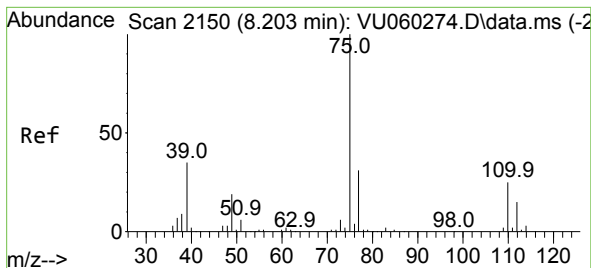
Tgt Ion: 75 Resp: 71511
 Ion Ratio Lower Upper
 75 100
 77 30.9 21.6 40.2



#42
 Toluene
 Concen: 40.197 ug/L
 RT: 7.962 min Scan# 2075
 Delta R.T. -0.000 min
 Lab File: VU060283.D
 Acq: 31 Jul 2024 14:52

Tgt Ion: 91 Resp: 282824
 Ion Ratio Lower Upper
 91 100
 92 55.9 39.3 72.9





#44

trans-1,3-Dichloropropene

Concen: 12.269 ug/L

RT: 8.206 min Scan# 2150

Delta R.T. 0.003 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Instrument :

MSVOA_U

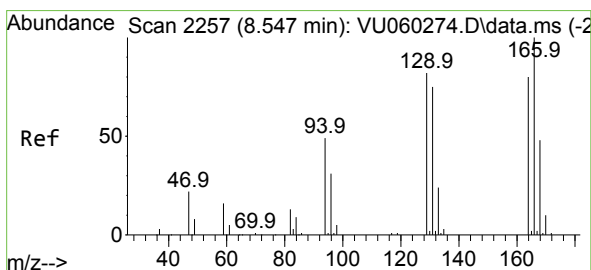
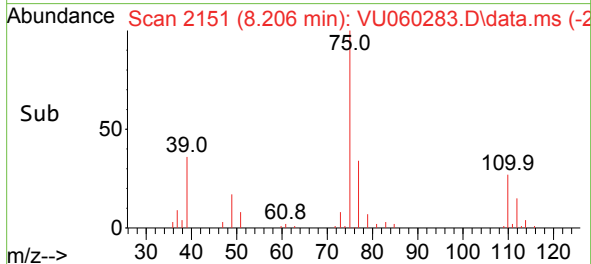
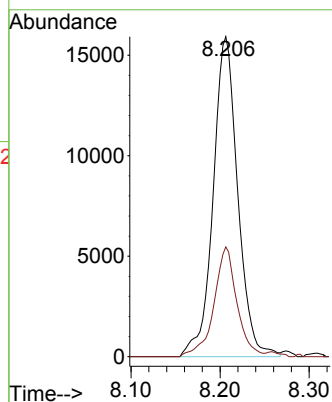
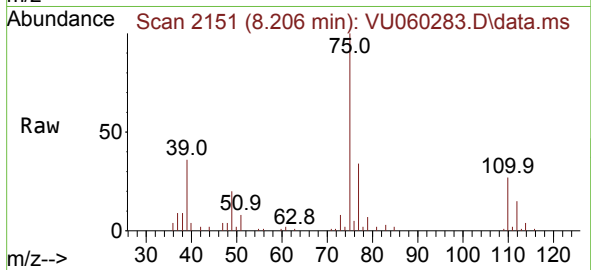
ClientSampleId :

Tgt Ion: 75 Resp: 30587

Ion Ratio Lower Upper

75 100

77 34.3 21.7 40.3



#46

Tetrachloroethene

Concen: 16.666 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Tgt Ion: 164 Resp: 23580

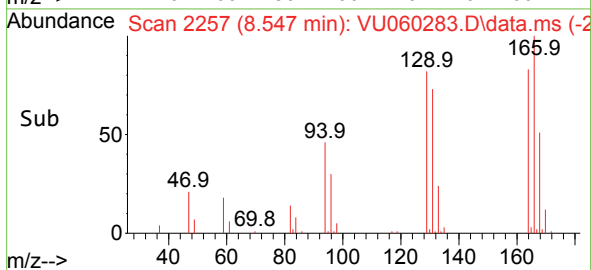
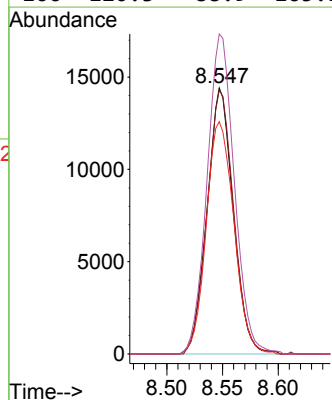
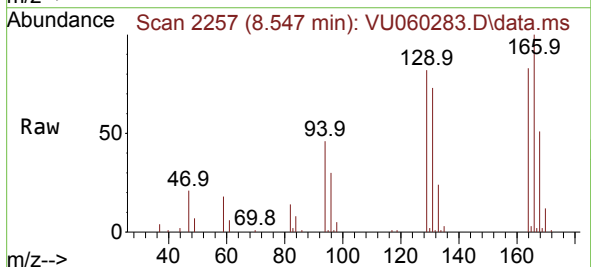
Ion Ratio Lower Upper

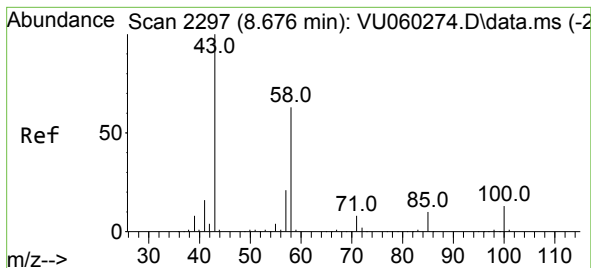
164 100

129 99.1 62.7 116.5

131 87.3 62.3 115.7

166 120.3 88.9 165.1





#48

2-Hexanone

Concen: 87.713 ug/L

RT: 8.679 min Scan# 21

Delta R.T. 0.003 min

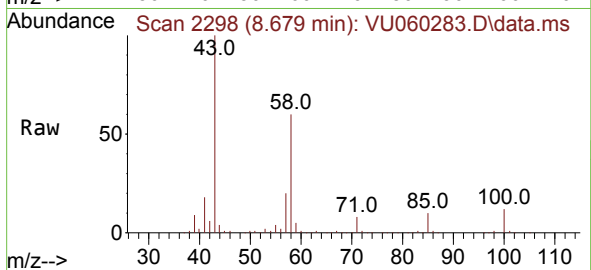
Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Instrument :

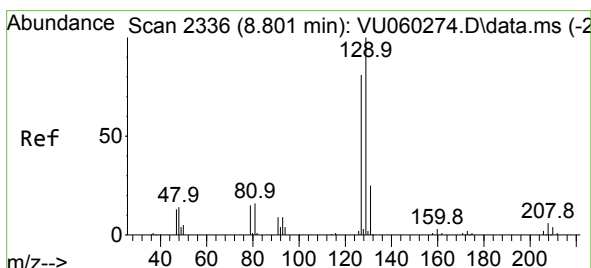
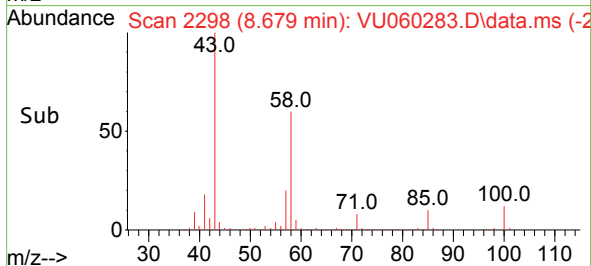
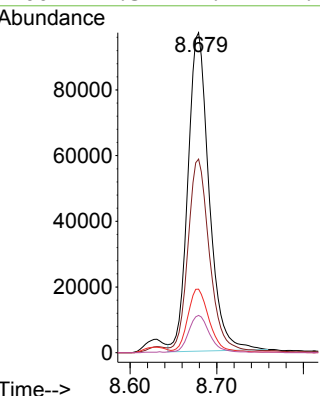
MSVOA_U

ClientSampleId :



Tgt Ion: 43 Resp: 164593

Ion	Ratio	Lower	Upper
43	100		
58	61.1	49.0	73.6
57	20.2	16.7	25.1
100	11.3	11.4	17.2



#49

Dibromochloromethane

Concen: 4.959 ug/L

RT: 8.804 min Scan# 2337

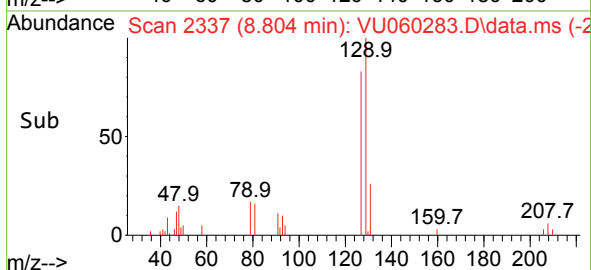
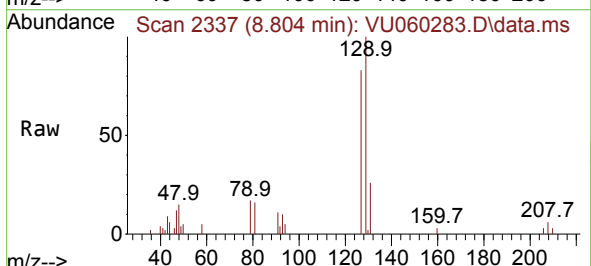
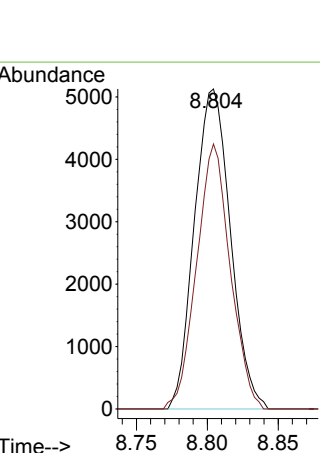
Delta R.T. 0.003 min

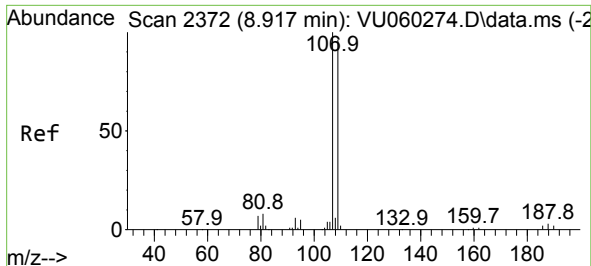
Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Tgt Ion: 129 Resp: 9077

Ion	Ratio	Lower	Upper
129	100		
127	82.8	54.0	100.2

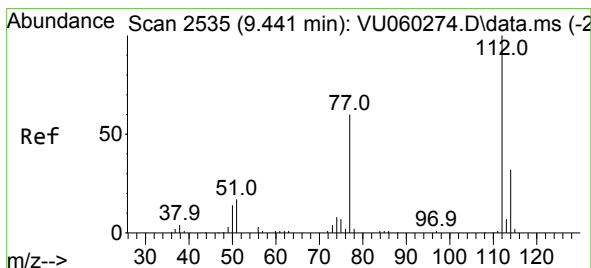
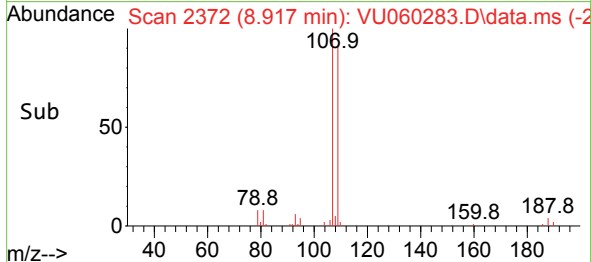
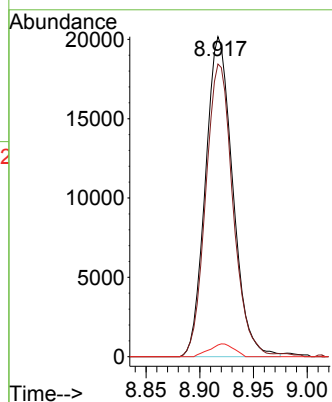
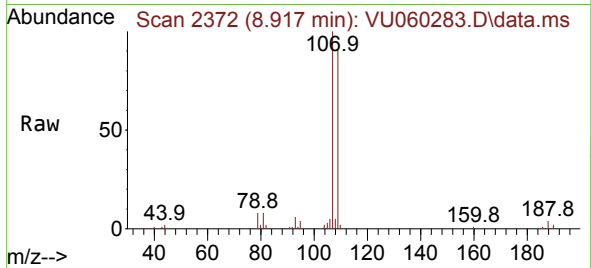




#50
1,2-Dibromoethane
Concen: 18.365 ug/L
RT: 8.917 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU060283.D
Acq: 31 Jul 2024 14:52

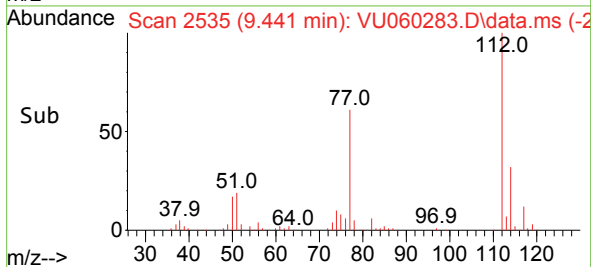
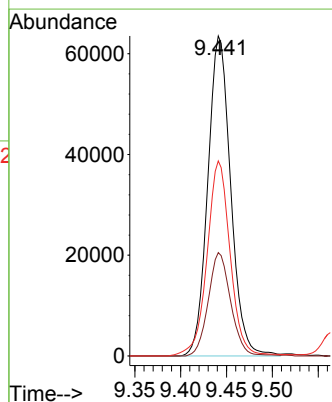
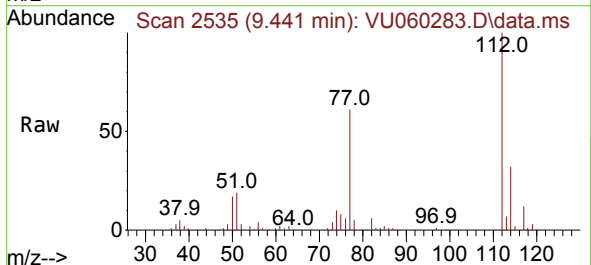
Instrument :
MSVOA_U
ClientSampleId :

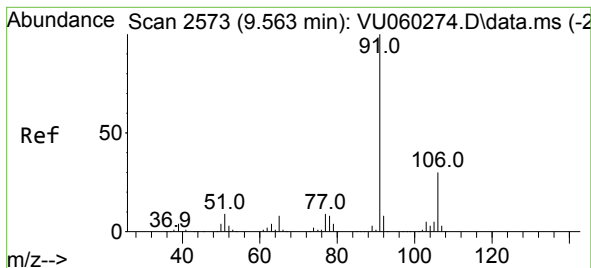
Tgt Ion:107 Resp: 35673
Ion Ratio Lower Upper
107 100
109 91.4 65.5 121.6
188 3.7 3.0 4.4



#51
Chlorobenzene
Concen: 23.649 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. -0.000 min
Lab File: VU060283.D
Acq: 31 Jul 2024 14:52

Tgt Ion:112 Resp: 110462
Ion Ratio Lower Upper
112 100
114 32.3 22.7 42.3
77 60.9 45.8 68.6





#52

Ethylbenzene

Concen: 10.604 ug/L

RT: 9.566 min Scan# 2

Delta R.T. 0.003 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Instrument :

MSVOA_U

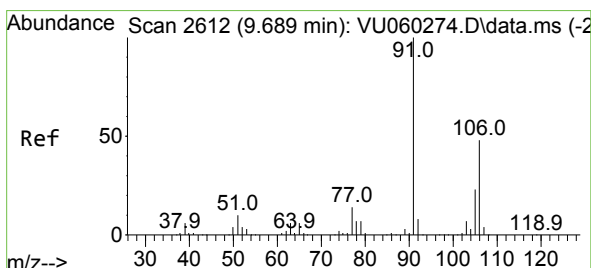
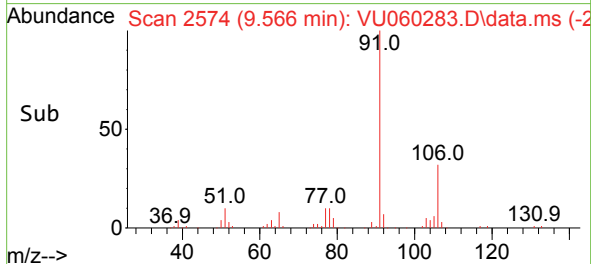
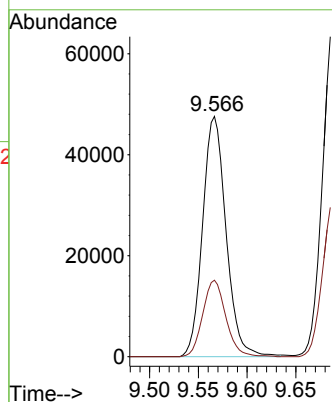
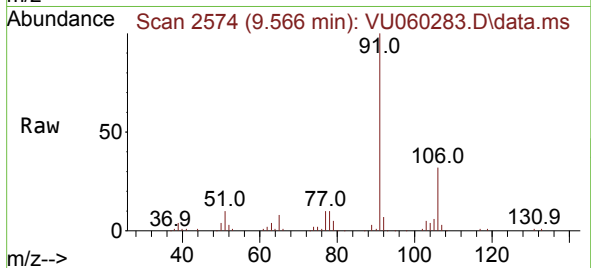
ClientSampleId :

Tgt Ion: 91 Resp: 79674

Ion Ratio Lower Upper

91 100

106 31.8 22.4 41.6



#53

m,p-Xylene

Concen: 19.160 ug/L

RT: 9.689 min Scan# 2612

Delta R.T. -0.000 min

Lab File: VU060283.D

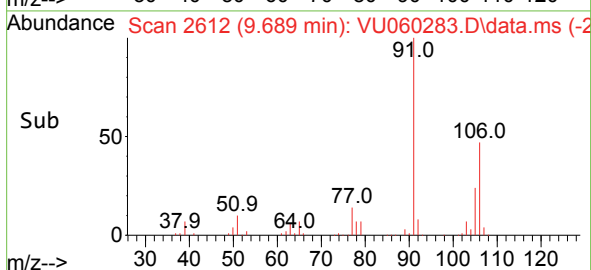
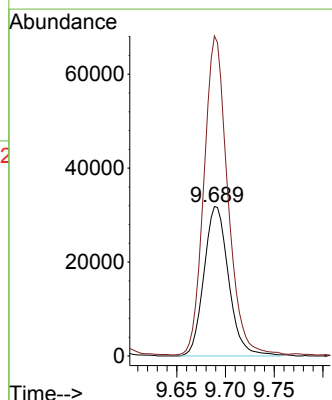
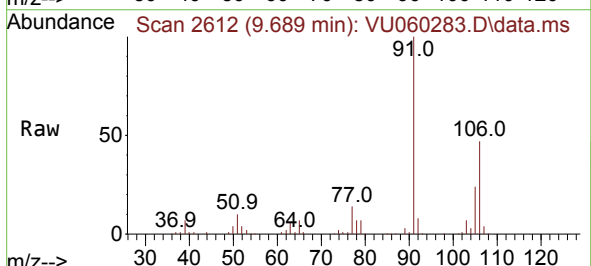
Acq: 31 Jul 2024 14:52

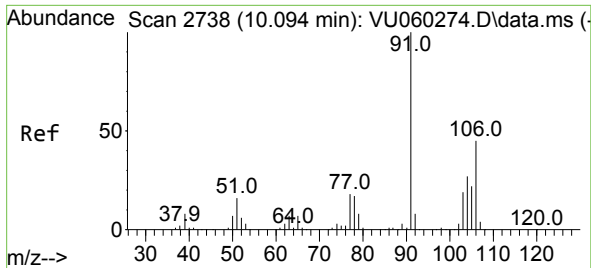
Tgt Ion: 106 Resp: 56052

Ion Ratio Lower Upper

106 100

91 214.0 140.9 261.7

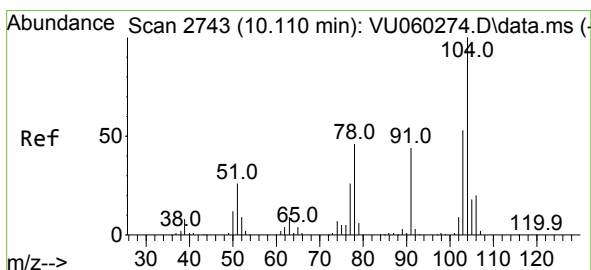
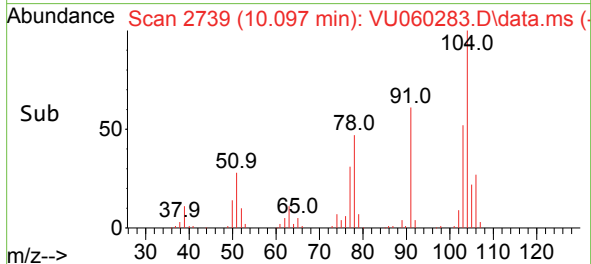
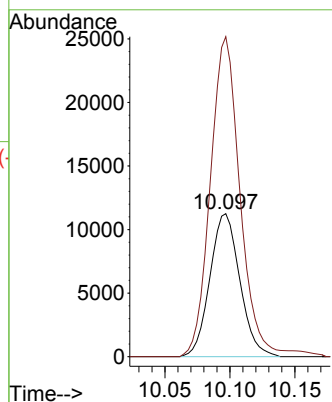
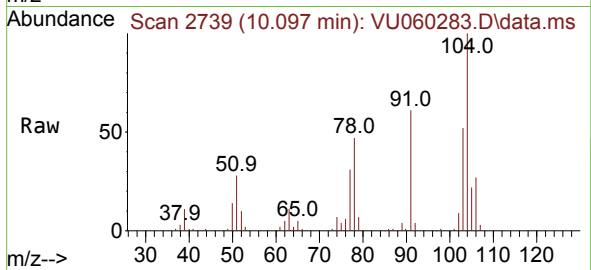




#54
o-Xylene
Concen: 6.403 ug/L
RT: 10.097 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU060283.D
Acq: 31 Jul 2024 14:52

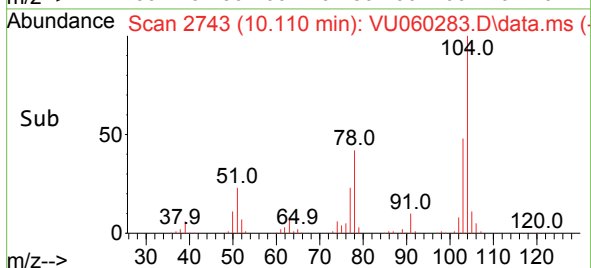
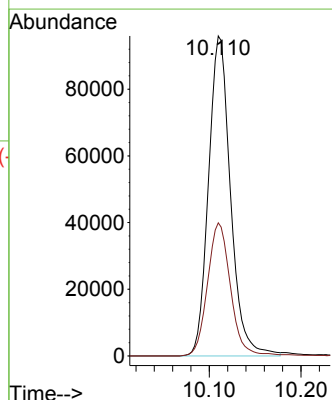
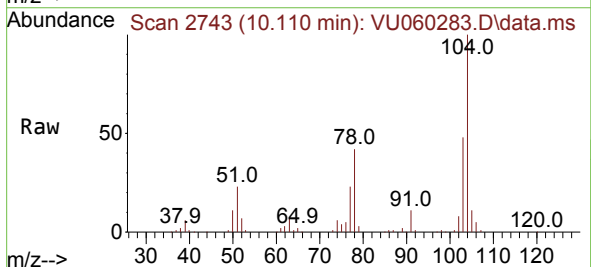
Instrument :
MSVOA_U
ClientSampleId :

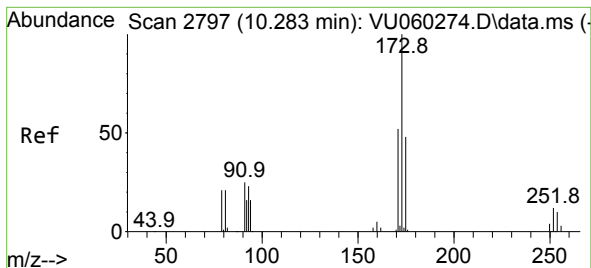
Tgt Ion:106 Resp: 18014
Ion Ratio Lower Upper
106 100
91 223.6 147.4 273.8



#55
Styrene
Concen: 33.728 ug/L
RT: 10.110 min Scan# 2743
Delta R.T. -0.000 min
Lab File: VU060283.D
Acq: 31 Jul 2024 14:52

Tgt Ion:104 Resp: 160077
Ion Ratio Lower Upper
104 100
78 41.6 30.9 57.5





#59

Bromoform

Concen: 12.797 ug/L

RT: 10.283 min Scan# 21

Delta R.T. -0.000 min

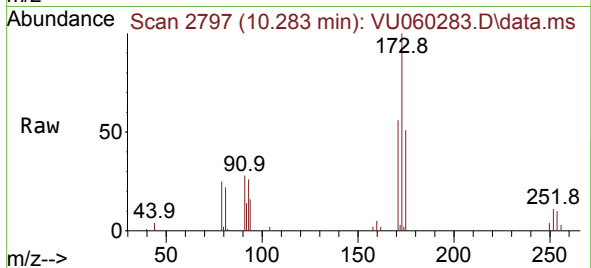
Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

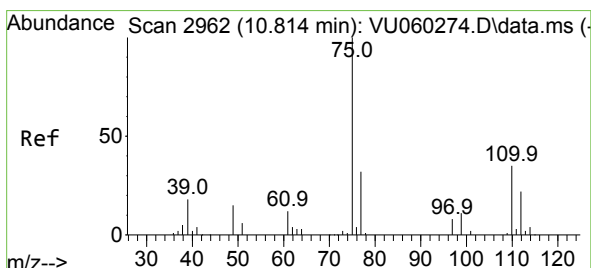
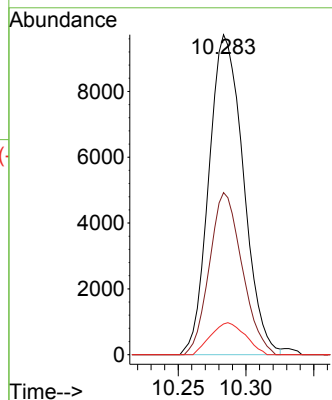
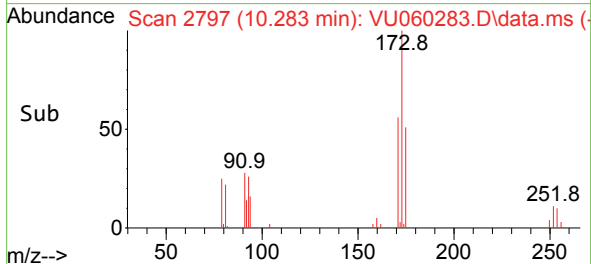
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	173	Resp:	17173
Ion	Ratio	Lower	Upper
173	100		
175	48.0	39.4	59.2
254	10.0	9.0	13.4



#60

1,2,3-Trichloropropane

Concen: 50.520 ug/L

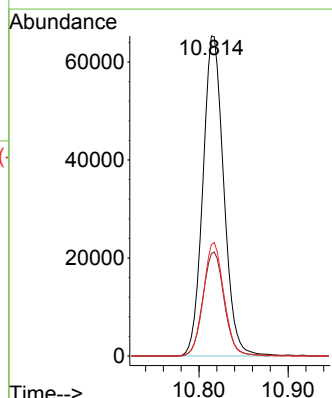
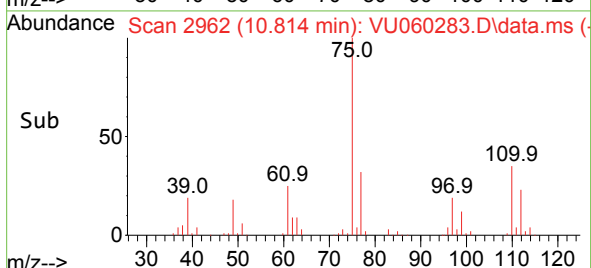
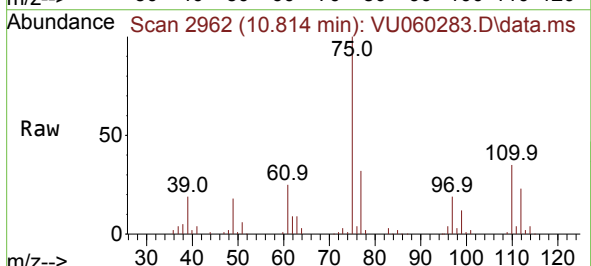
RT: 10.814 min Scan# 2962

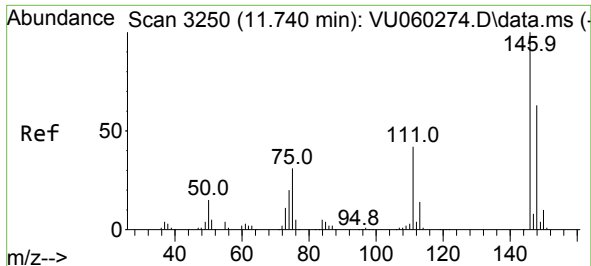
Delta R.T. -0.000 min

Lab File: VU060283.D

Acq: 31 Jul 2024 14:52

Tgt Ion:	75	Resp:	106413
Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.5	38.3
110	34.8	30.7	46.1

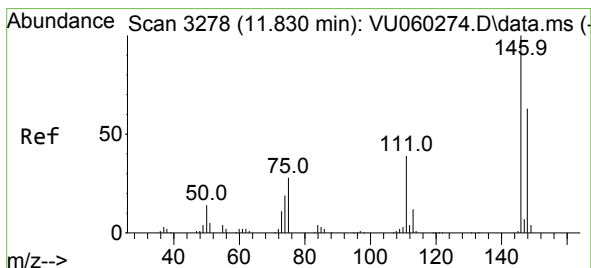
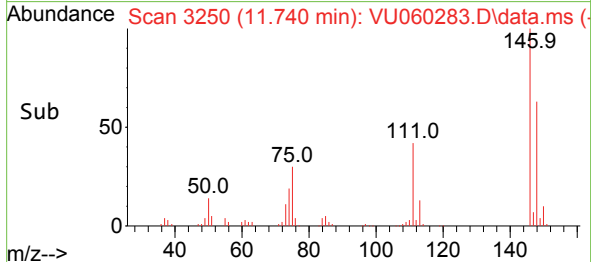
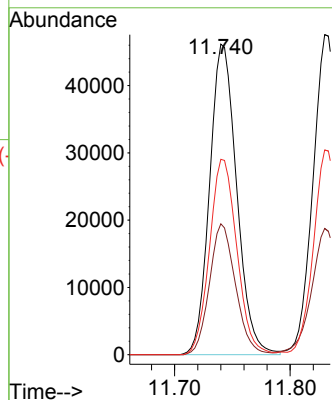
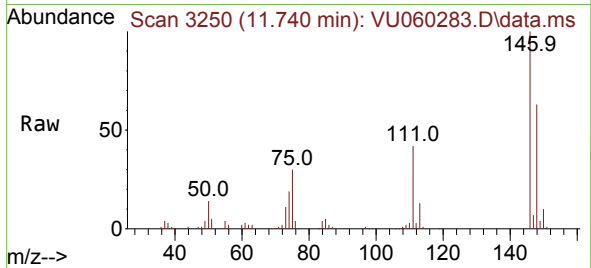




#64
1,3-Dichlorobenzene
Concen: 22.404 ug/L
RT: 11.740 min Scan# 3250
Delta R.T. -0.000 min
Lab File: VU060283.D
Acq: 31 Jul 2024 14:52

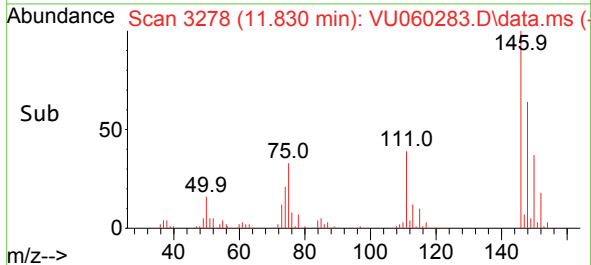
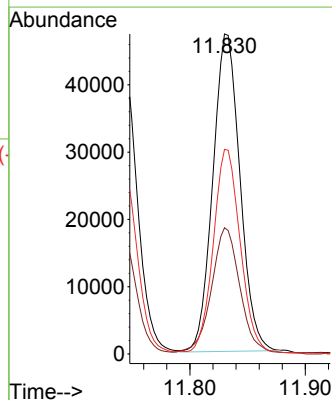
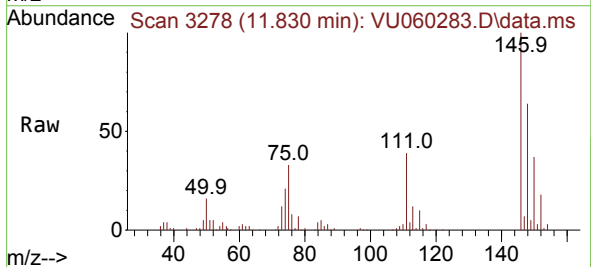
Instrument :
MSVOA_U
ClientSampleId :

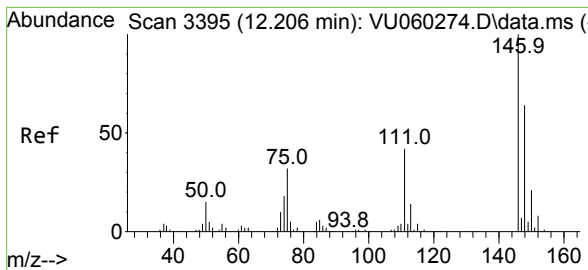
Tgt Ion:146 Resp: 75169
Ion Ratio Lower Upper
146 100
111 42.1 26.5 49.1
148 62.9 43.8 81.3



#65
1,4-Dichlorobenzene
Concen: 22.243 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. -0.000 min
Lab File: VU060283.D
Acq: 31 Jul 2024 14:52

Tgt Ion:146 Resp: 77151
Ion Ratio Lower Upper
146 100
111 39.5 25.9 48.1
148 64.0 44.0 81.8

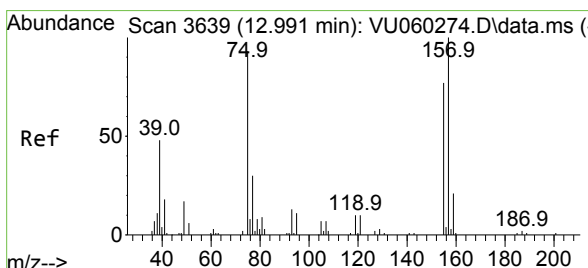
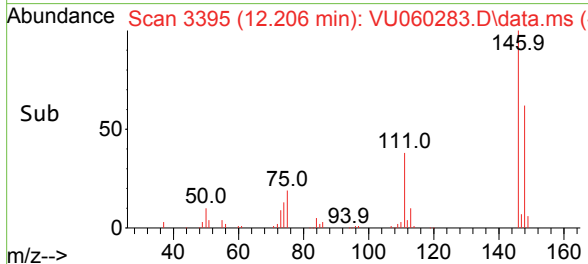
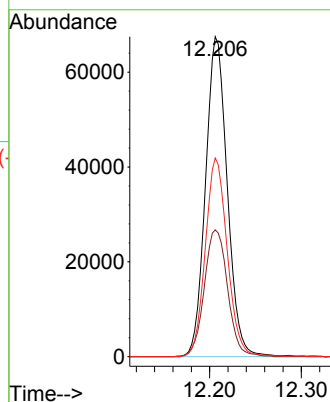
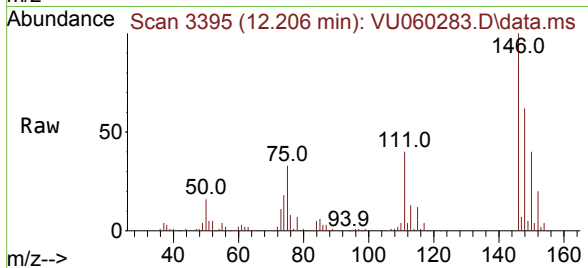




#67
1,2-Dichlorobenzene
Concen: 32.792 ug/L
RT: 12.206 min Scan# 3111
Delta R.T. -0.000 min
Lab File: VU060283.D
Acq: 31 Jul 2024 14:52

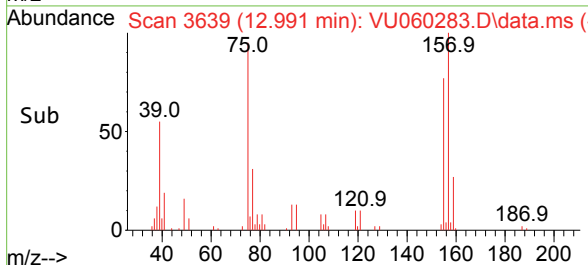
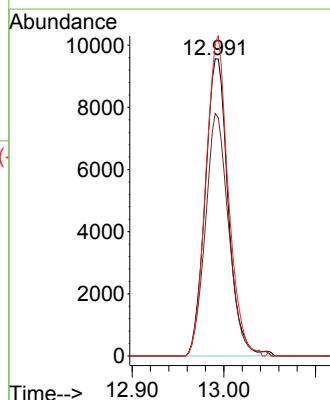
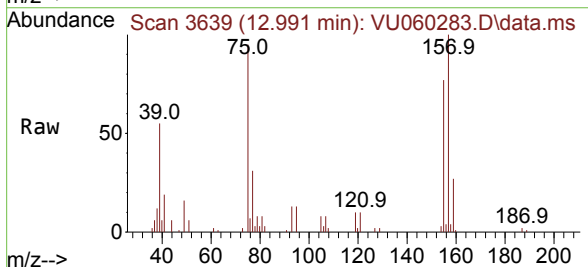
Instrument :
MSVOA_U
ClientSampleId :

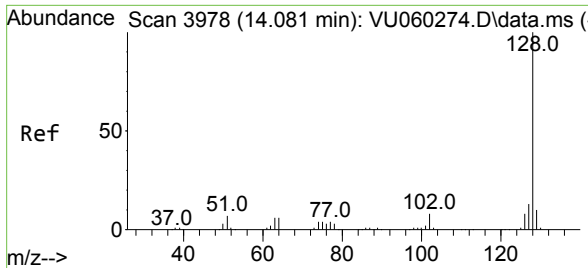
Tgt Ion:146 Resp: 111146
Ion Ratio Lower Upper
146 100
111 39.7 31.7 47.5
148 62.1 50.8 76.2



#68
1,2-Dibromo-3-chloropropane
Concen: 28.859 ug/L
RT: 12.991 min Scan# 3639
Delta R.T. -0.000 min
Lab File: VU060283.D
Acq: 31 Jul 2024 14:52

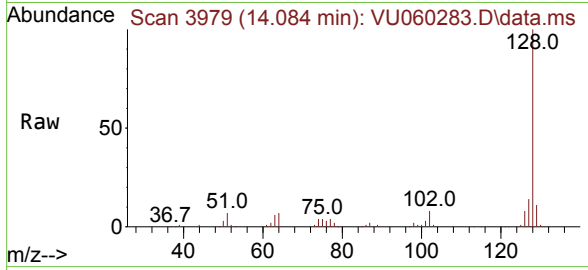
Tgt Ion: 75 Resp: 16624
Ion Ratio Lower Upper
75 100
155 81.6 73.5 110.3
157 109.5 93.5 140.3





#71
Naphthalene
Concen: 24.263 ug/L
RT: 14.084 min Scan# 3978
Delta R.T. 0.003 min
Lab File: VU060283.D
Acq: 31 Jul 2024 14:52

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:	128	Resp:	152877
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.4	15.6
129	10.9	8.6	13.0

