

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072523\
 Data File : VX036647.D
 Acq On : 25 Jul 2023 12:31
 Operator : JC/MD
 Sample : 03718-02DL 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 34585DL

Quant Time: Jul 26 06:23:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072123W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 21 12:14:12 2023
 Response via : Initial Calibration

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

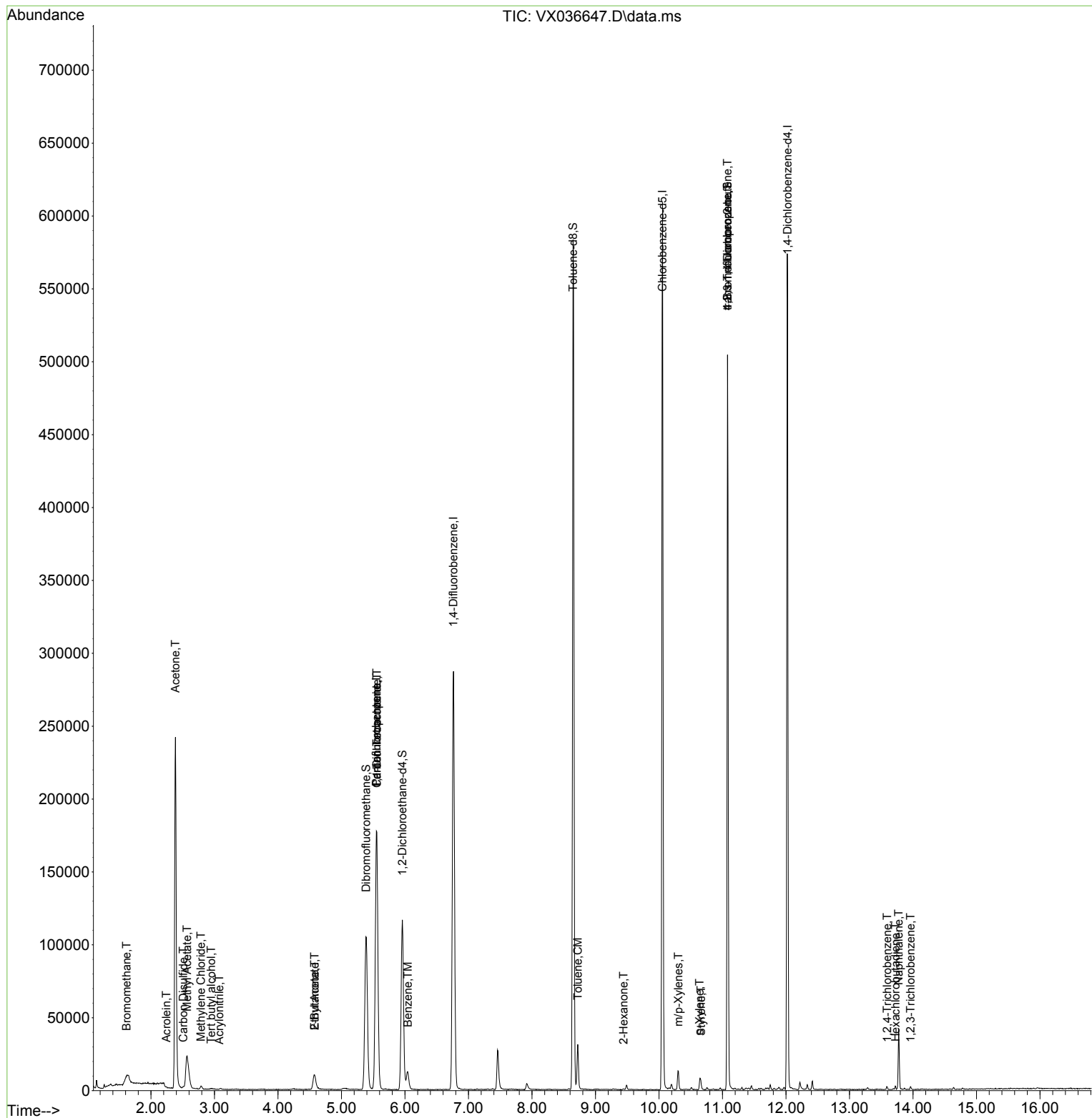
Internal Standards						
1) Pentafluorobenzene	5.550	168	165065	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	292658	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	266611	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	118831	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	110607	45.287	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	90.580%
35) Dibromofluoromethane	5.385	113	93754	46.607	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.220%
50) Toluene-d8	8.647	98	348239	48.818	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.640%
62) 4-Bromofluorobenzene	11.079	95	131285	48.781	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.560%
Target Compounds						
					Qvalue	
5) Bromomethane	1.618	94	482	0.400	ug/l #	42
11) Tert butyl alcohol	2.947	59	251	0.434	ug/l #	47
13) Acrolein	2.239	56	361	1.094	ug/l	93
15) Acrylonitrile	3.075	53	284	0.244	ug/l #	47
16) Acetone	2.386	43	268495	264.920	ug/l	90
17) Carbon Disulfide	2.508	76	1415	0.277	ug/l #	85
18) Methyl Acetate	2.569	43	10449	2.451	ug/l #	53
20) Methylene Chloride	2.788	84	1116	0.495	ug/l #	80
25) 2-Butanone	4.574	43	10355	6.297	ug/l	96
36) 1,1-Dichloropropene	5.556	75	13968	4.659	ug/l #	50
37) Ethyl Acetate	4.574	43	10355	3.051	ug/l #	70
38) Carbon Tetrachloride	5.556	117	17348	5.442	ug/l #	15
40) Benzene	6.044	78	14173	1.625	ug/l	99
52) Toluene	8.720	92	11094	2.030	ug/l	92
59) 2-Hexanone	9.439	43	720	0.300	ug/l #	52
68) m/p-Xylenes	10.305	106	3207	0.801	ug/l	99
69) o-Xylene	10.640	106	1300	0.325	ug/l	88
70) Styrene	10.659	104	2282	0.346	ug/l	95
76) 1,2,3-Trichloropropane	11.079	75	67604	24.187	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	67604	54.822	ug/l #	5
93) 1,2,4-Trichlorobenzene	13.591	180	628	0.255	ug/l	95
94) Hexachlorobutadiene	13.725	225	391	0.383	ug/l	91
95) Naphthalene	13.774	128	24954	2.904	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	593	0.244	ug/l	92

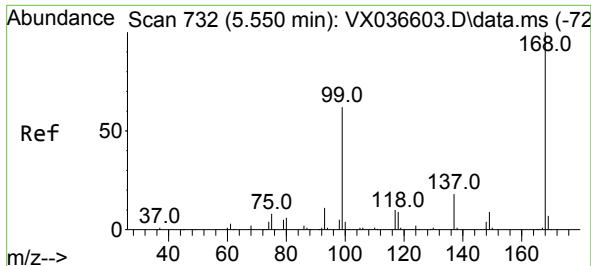
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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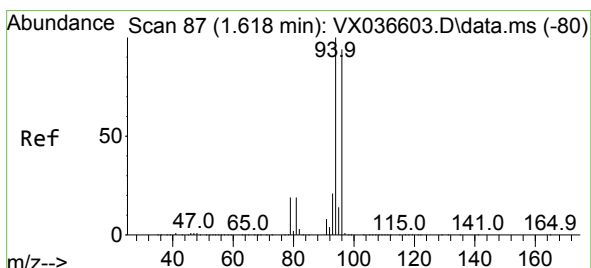
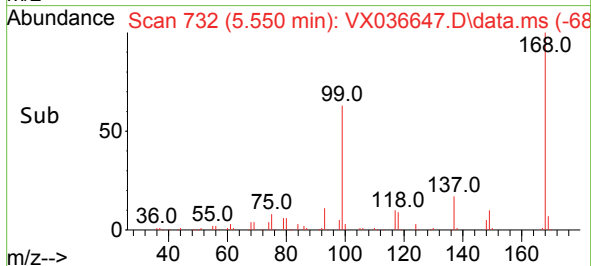
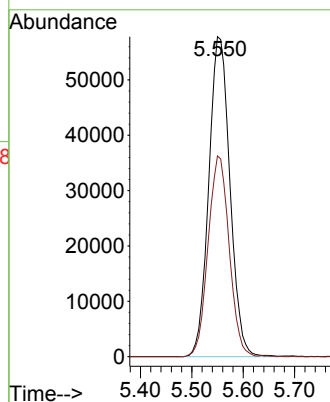
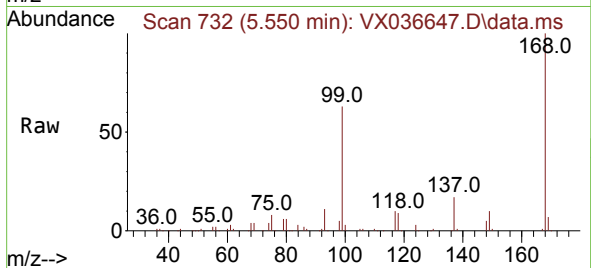




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

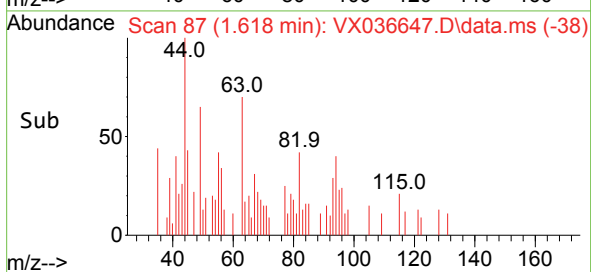
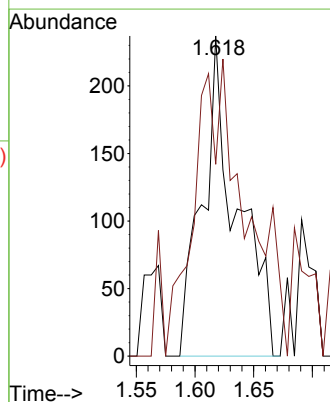
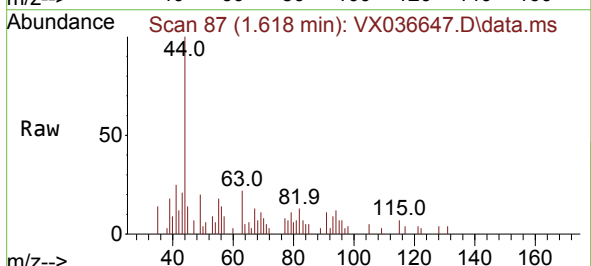
Instrument :
MSVOA_X
ClientSampleId :
34585DL

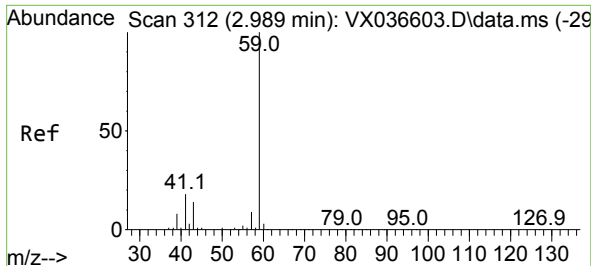
Tgt Ion:168 Resp: 165065
Ion Ratio Lower Upper
168 100
99 62.7 56.6 85.0



#5
Bromomethane
Concen: 0.400 ug/l
RT: 1.618 min Scan# 87
Delta R.T. 0.000 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion: 94 Resp: 482
Ion Ratio Lower Upper
94 100
96 37.1 74.6 111.8#

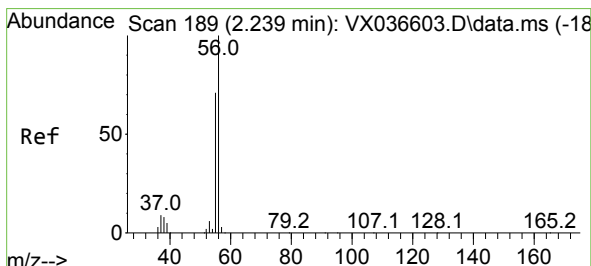
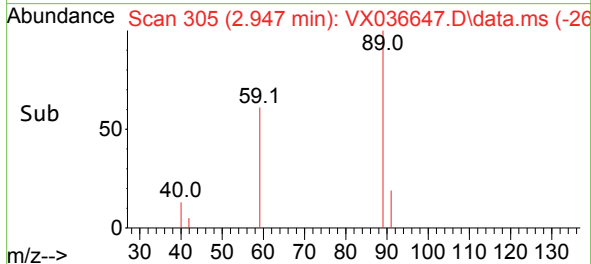
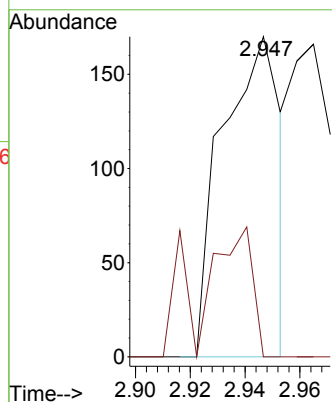
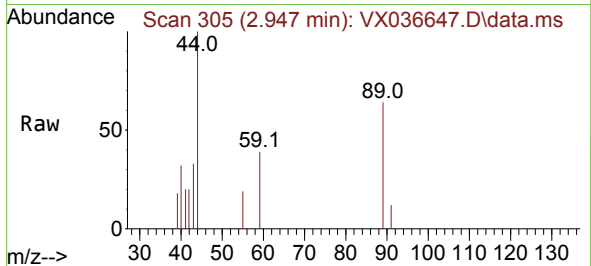




#11
Tert butyl alcohol
Concen: 0.434 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.043 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

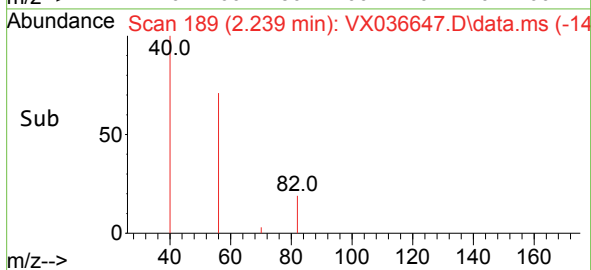
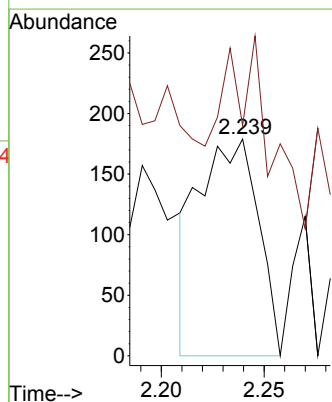
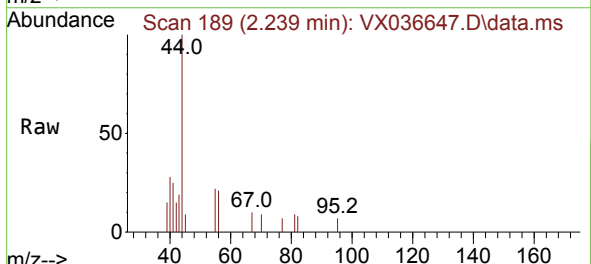
Instrument :
MSVOA_X
ClientSampleId :
34585DL

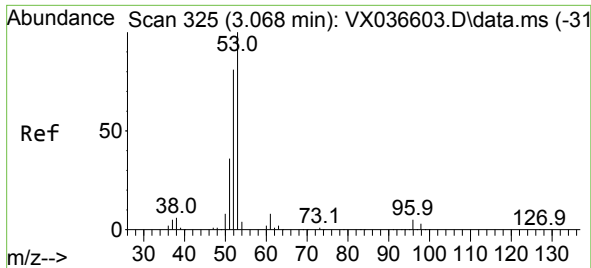
Tgt Ion: 59 Resp: 251
Ion Ratio Lower Upper
59 100
57 25.9 6.0 9.0#



#13
Acrolein
Concen: 1.094 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion: 56 Resp: 361
Ion Ratio Lower Upper
56 100
55 65.7 57.1 85.7

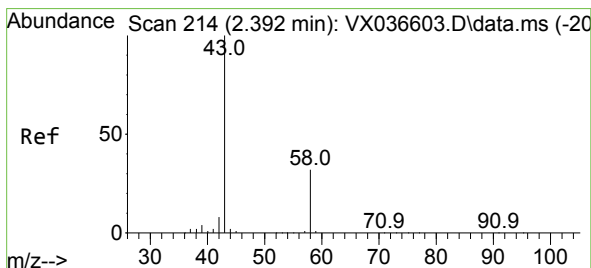
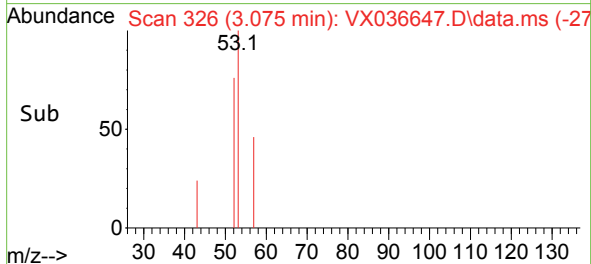
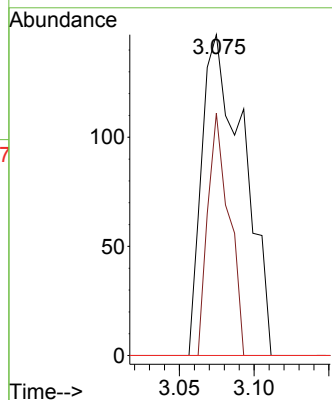
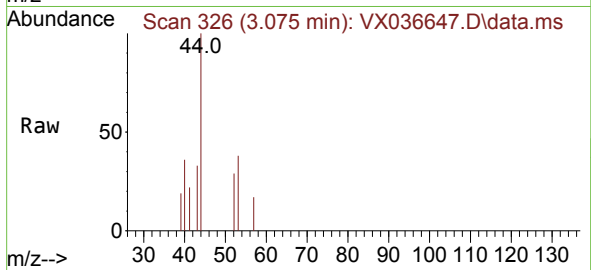




#15
Acrylonitrile
Concen: 0.244 ug/l
RT: 3.075 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

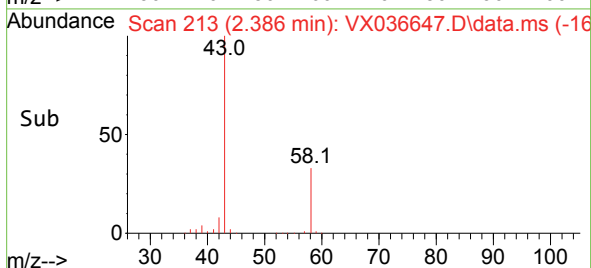
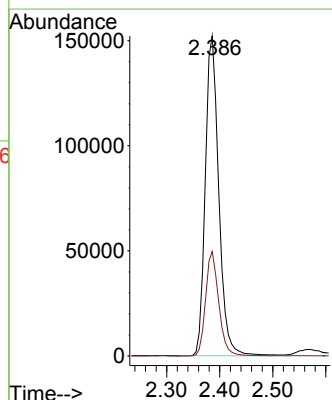
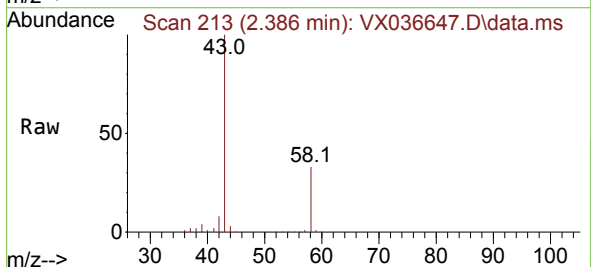
Instrument :
MSVOA_X
ClientSampleId :
34585DL

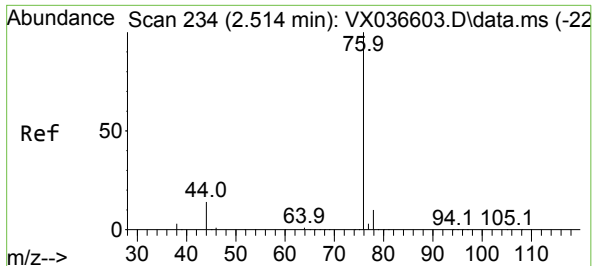
Tgt Ion: 53 Resp: 284
Ion Ratio Lower Upper
53 100
52 38.7 66.0 99.0#
51 0.0 29.8 44.6#



#16
Acetone
Concen: 264.920 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion: 43 Resp: 268495
Ion Ratio Lower Upper
43 100
58 32.7 21.9 32.9

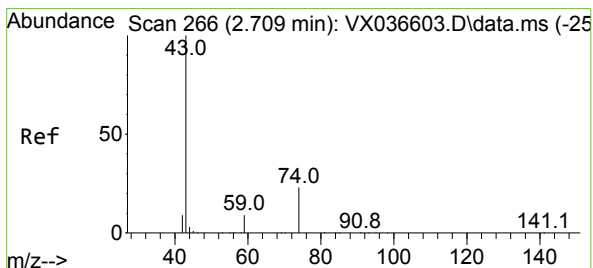
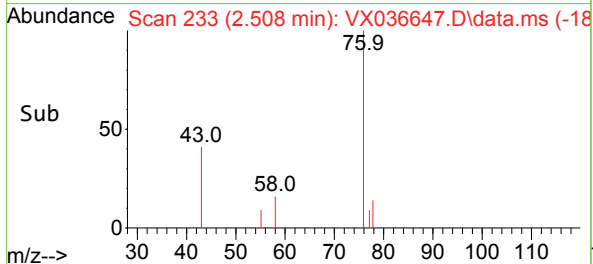
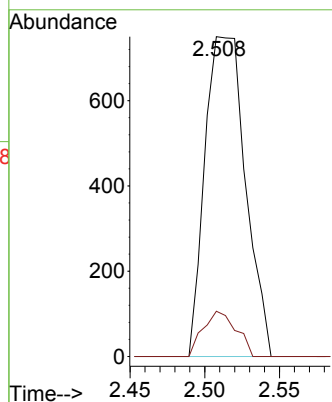
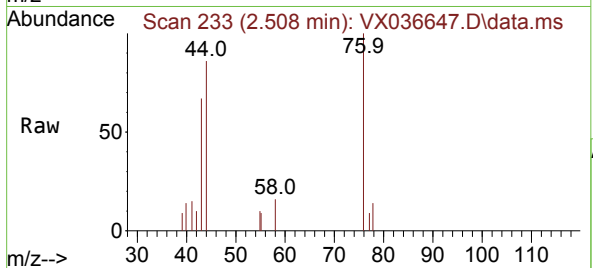




#17
Carbon Disulfide
Concen: 0.277 ug/l
RT: 2.508 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

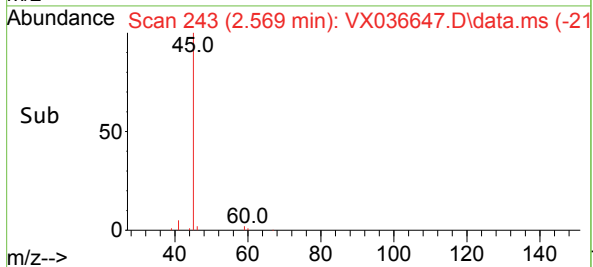
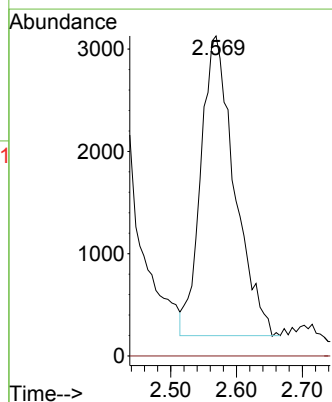
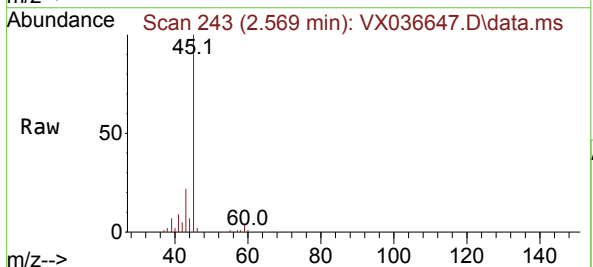
Instrument :
MSVOA_X
ClientSampleId :
34585DL

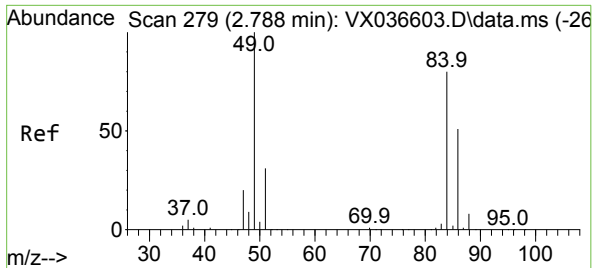
Tgt Ion: 76 Resp: 1415
Ion Ratio Lower Upper
76 100
78 14.1 7.0 10.6#



#18
Methyl Acetate
Concen: 2.451 ug/l
RT: 2.569 min Scan# 243
Delta R.T. -0.140 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion: 43 Resp: 10449
Ion Ratio Lower Upper
43 100
74 0.0 17.8 26.8#





#20

Methylene Chloride

Concen: 0.495 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

Instrument :

MSVOA_X

ClientSampleId :

34585DL

Tgt Ion: 84 Resp: 1116

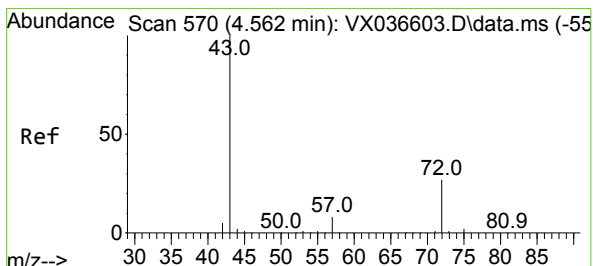
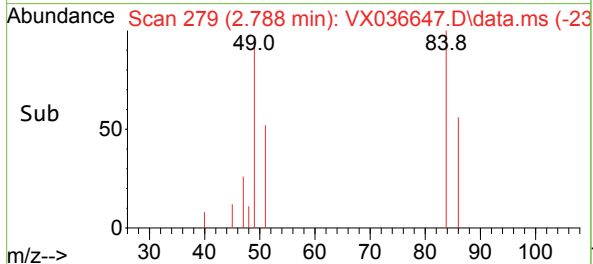
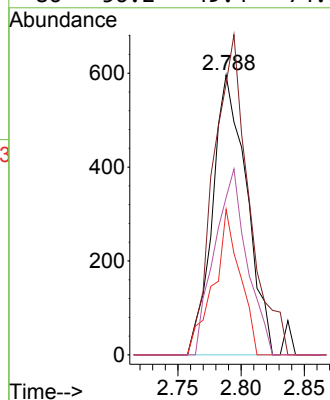
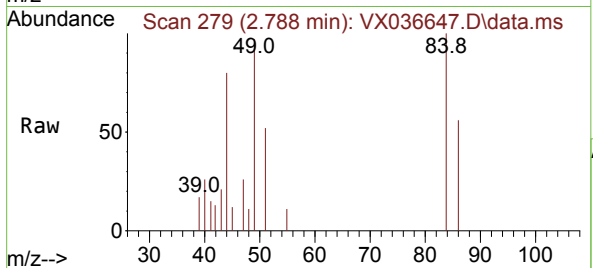
Ion Ratio Lower Upper

84 100

49 96.8 103.6 155.4#

51 52.0 33.8 50.6#

86 56.2 49.4 74.0



#25

2-Butanone

Concen: 6.297 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.012 min

Lab File: VX036647.D

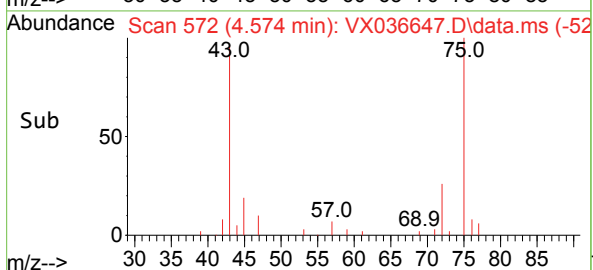
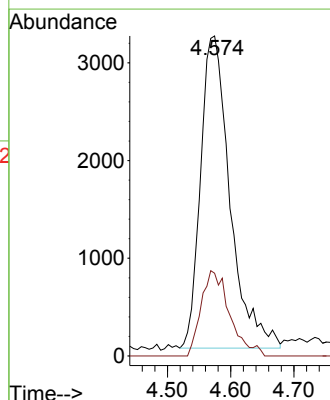
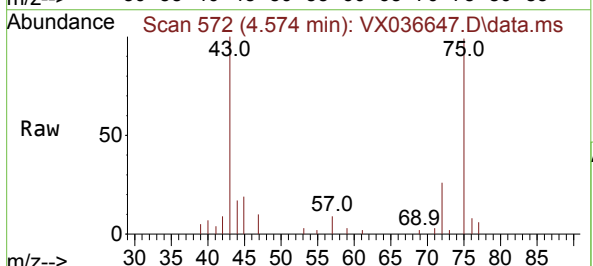
Acq: 25 Jul 2023 12:31

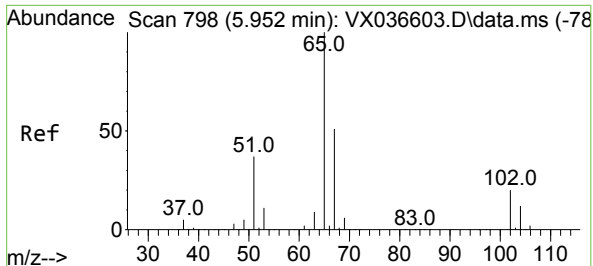
Tgt Ion: 43 Resp: 10355

Ion Ratio Lower Upper

43 100

72 26.5 19.4 29.2





#33

1,2-Dichloroethane-d4

Concen: 45.287 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

Instrument :

MSVOA_X

ClientSampleId :

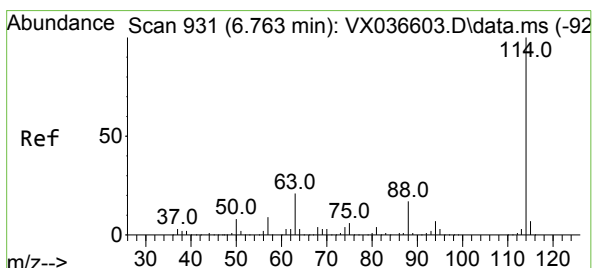
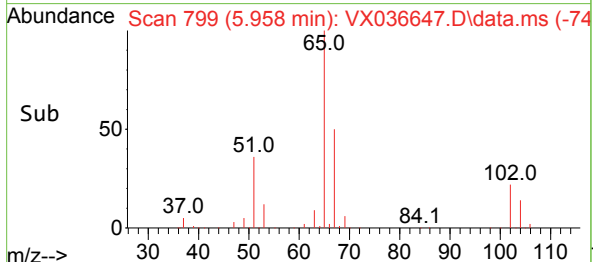
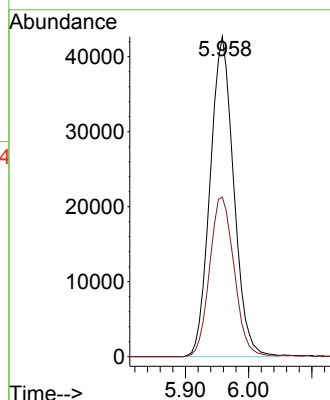
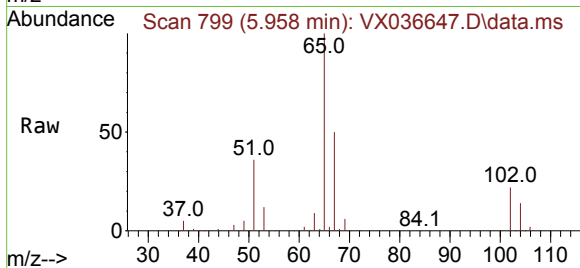
34585DL

Tgt Ion: 65 Resp: 110607

Ion Ratio Lower Upper

65 100

67 52.2 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

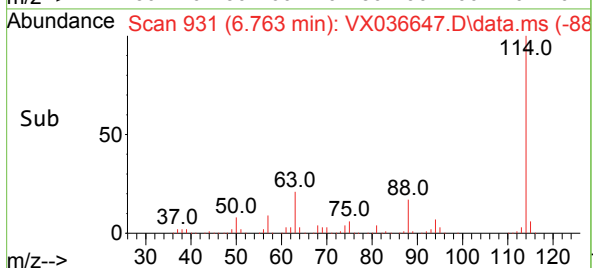
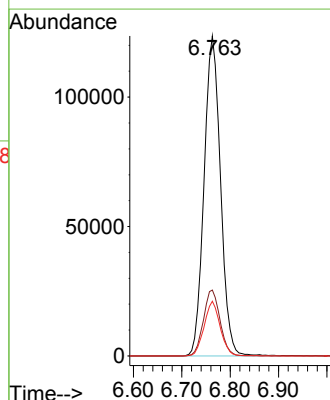
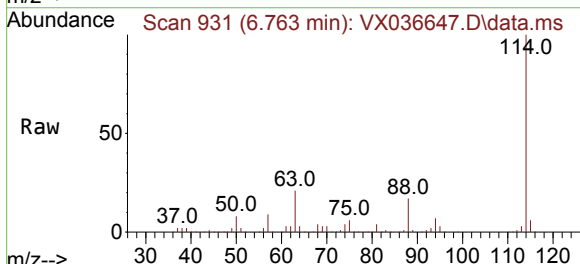
Tgt Ion: 114 Resp: 292658

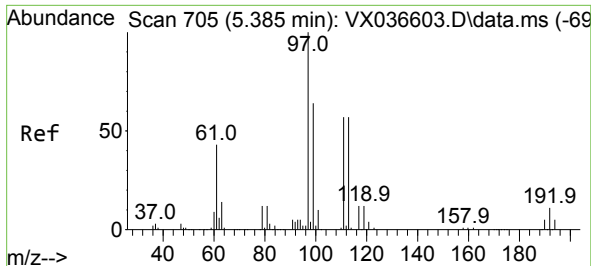
Ion Ratio Lower Upper

114 100

63 20.6 0.0 45.0

88 17.1 0.0 36.6

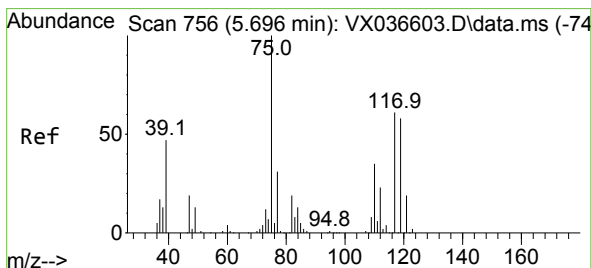
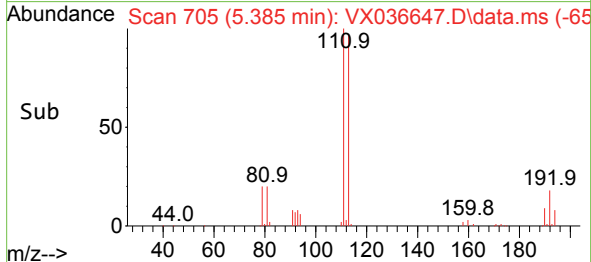
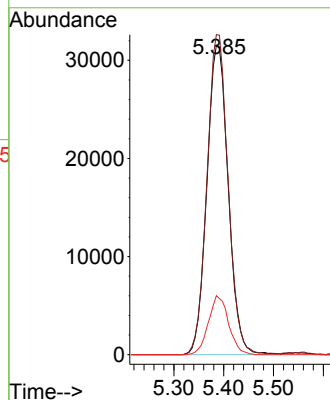
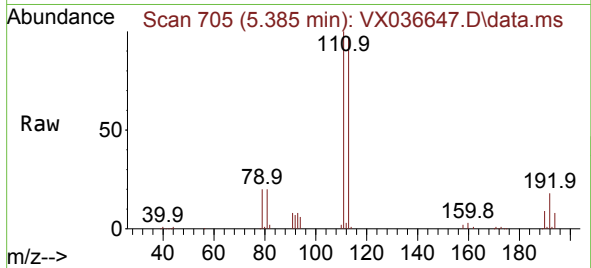




#35
Dibromofluoromethane
Concen: 46.607 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

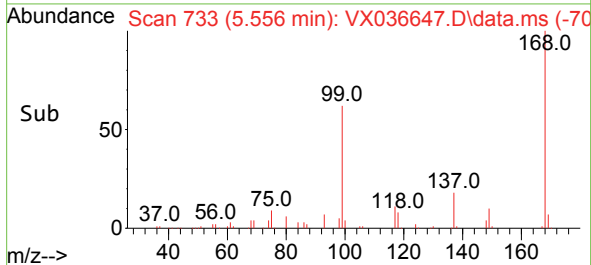
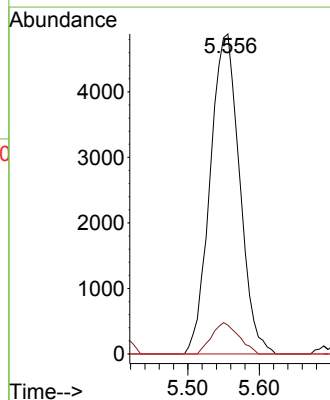
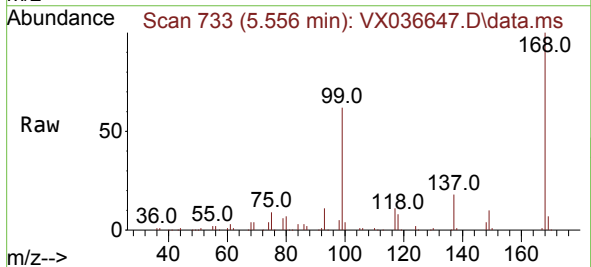
Instrument :
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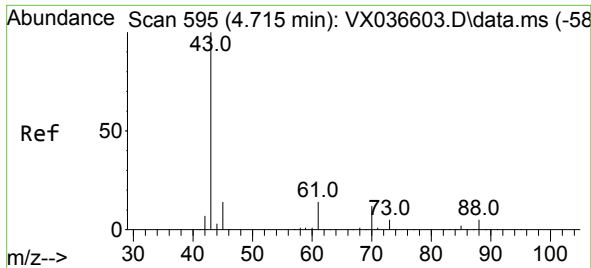
Tgt Ion:113 Resp: 93754
Ion Ratio Lower Upper
113 100
111 102.6 82.9 124.3
192 18.0 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.659 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion: 75 Resp: 13968
Ion Ratio Lower Upper
75 100
110 9.0 17.0 50.9#
77 0.0 24.7 37.1#

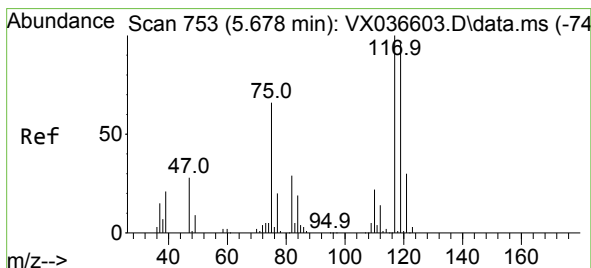
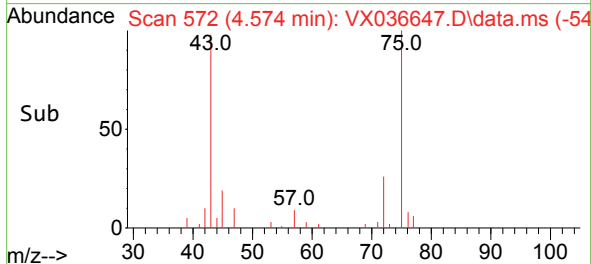
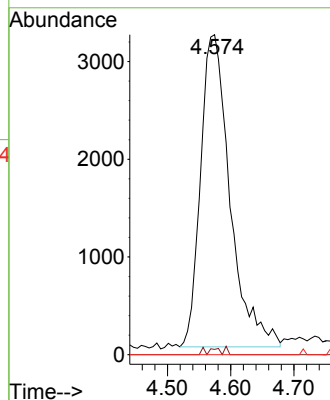
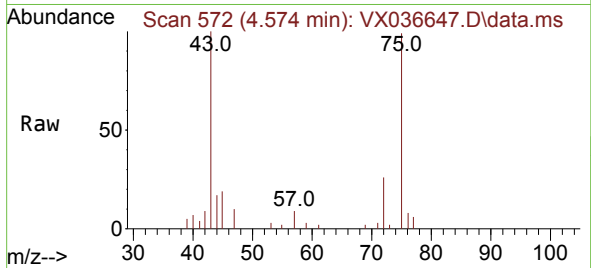




#37
Ethyl Acetate
Concen: 3.051 ug/l
RT: 4.574 min Scan# 51
Delta R.T. -0.140 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

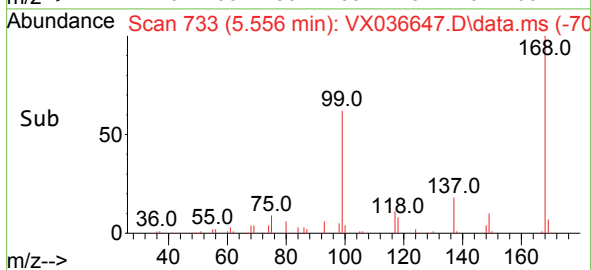
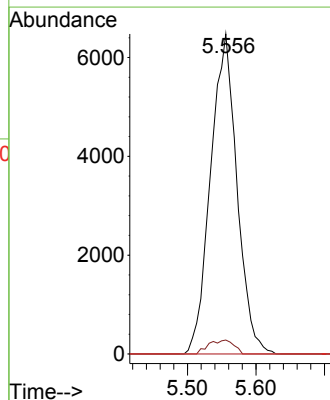
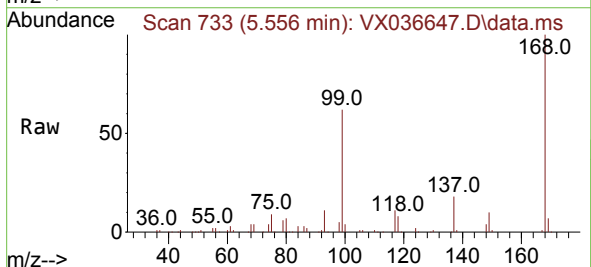
Instrument :
MSVOA_X
ClientSampleId :
34585DL

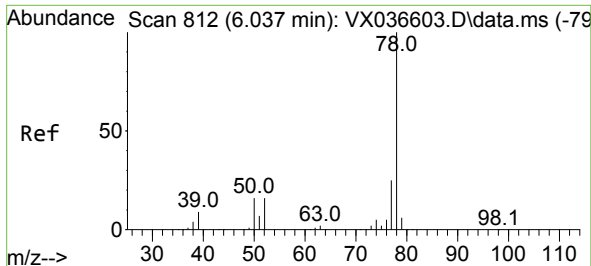
Tgt Ion: 43 Resp: 10355
Ion Ratio Lower Upper
43 100
61 0.6 10.6 16.0#
70 0.0 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 5.442 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.122 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion: 117 Resp: 17348
Ion Ratio Lower Upper
117 100
119 4.4 78.2 117.2#
121 0.0 24.4 36.6#

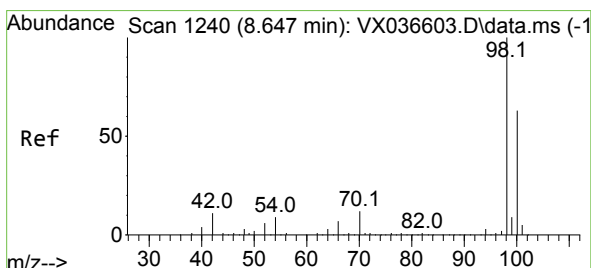
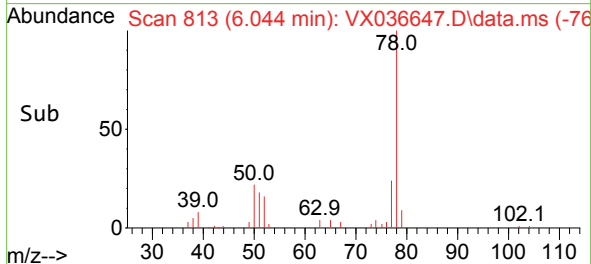
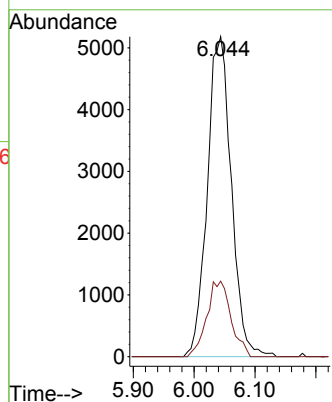
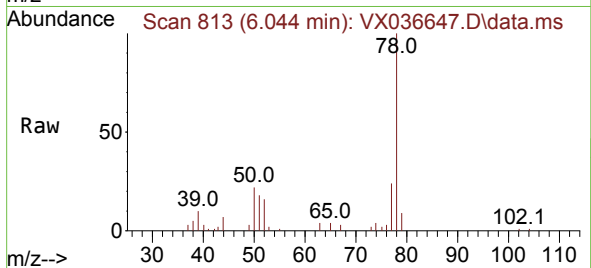




#40
Benzene
Concen: 1.625 ug/l
RT: 6.044 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

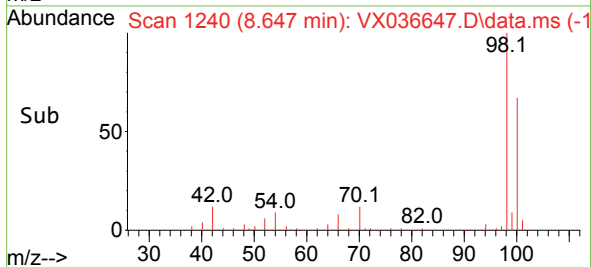
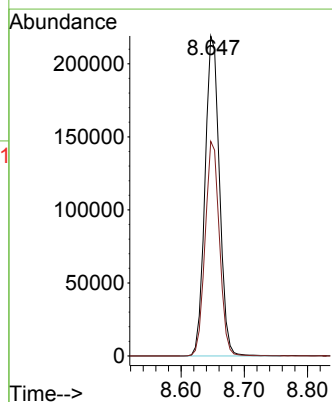
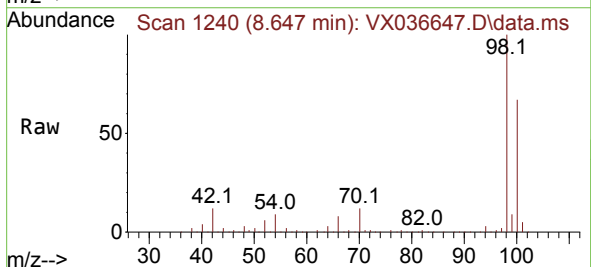
Instrument :
MSVOA_X
ClientSampleId :
34585DL

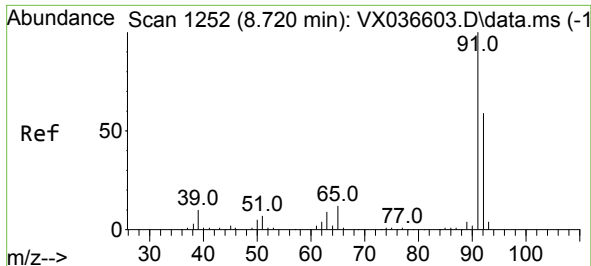
Tgt Ion: 78 Resp: 14173
Ion Ratio Lower Upper
78 100
77 23.6 19.3 28.9



#50
Toluene-d8
Concen: 48.818 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion: 98 Resp: 348239
Ion Ratio Lower Upper
98 100
100 66.3 53.1 79.7

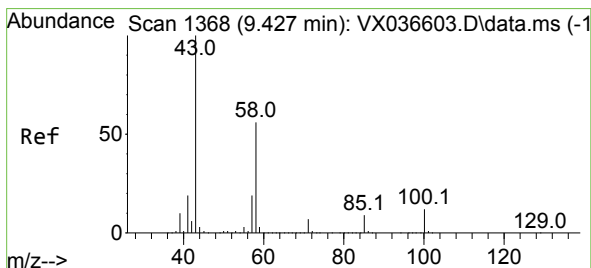
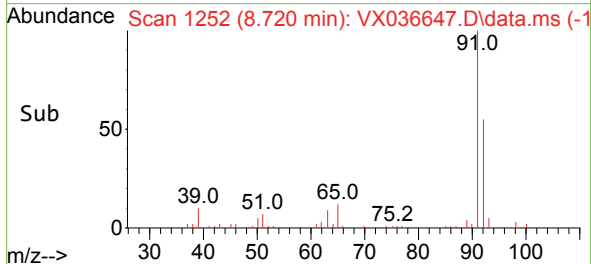
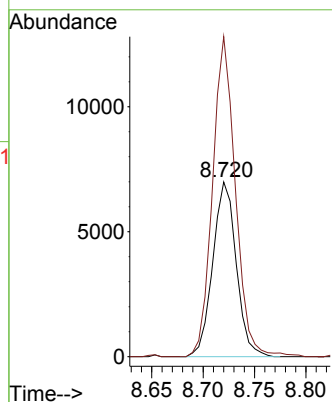
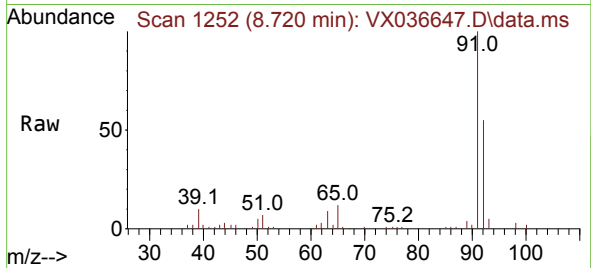




#52
Toluene
Concen: 2.030 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

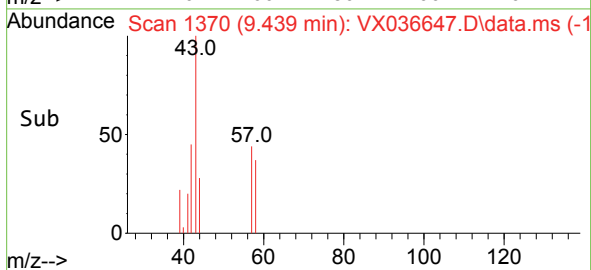
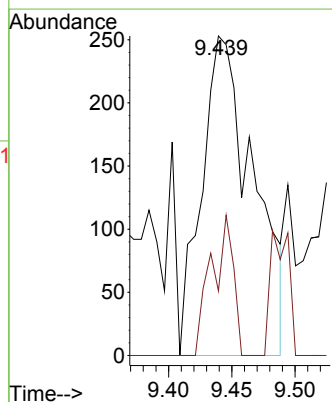
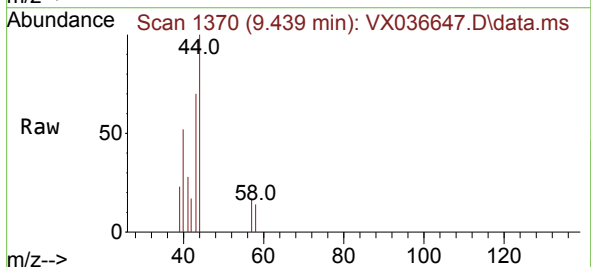
Instrument :
MSVOA_X
ClientSampleId :
34585DL

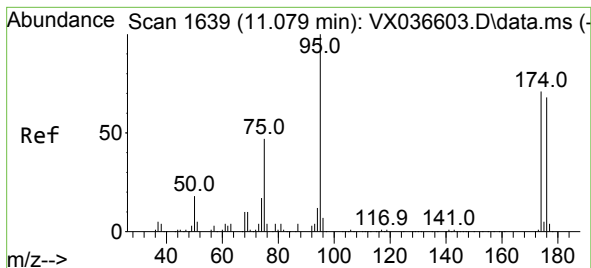
Tgt Ion: 92 Resp: 11094
Ion Ratio Lower Upper
92 100
91 178.2 134.2 201.2



#59
2-Hexanone
Concen: 0.300 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion: 43 Resp: 720
Ion Ratio Lower Upper
43 100
58 18.5 26.2 78.5#

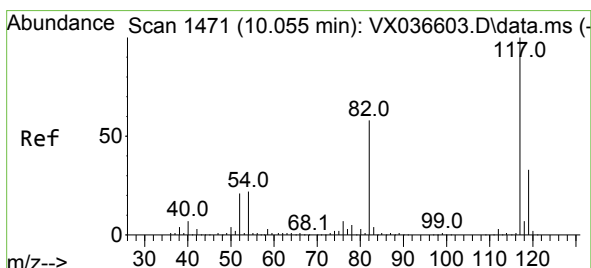
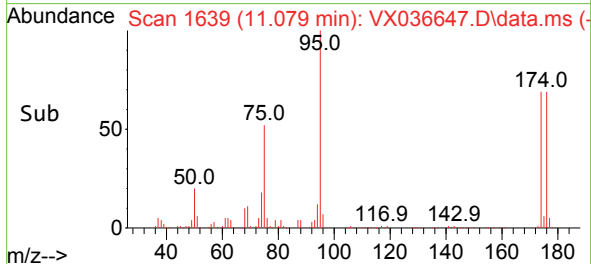
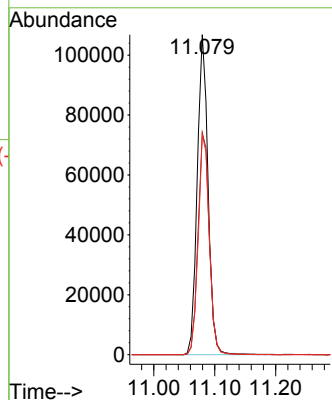
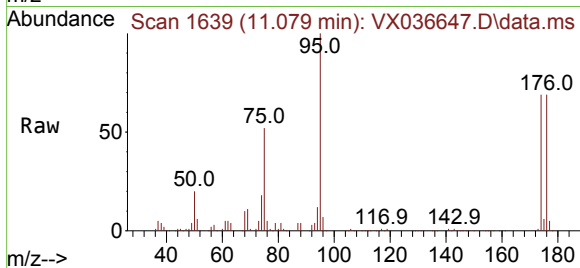




#62
4-Bromofluorobenzene
Concen: 48.781 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

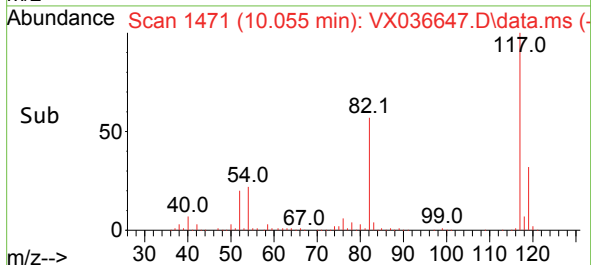
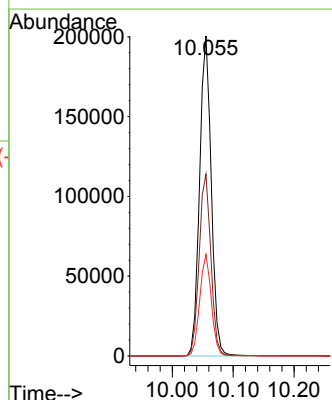
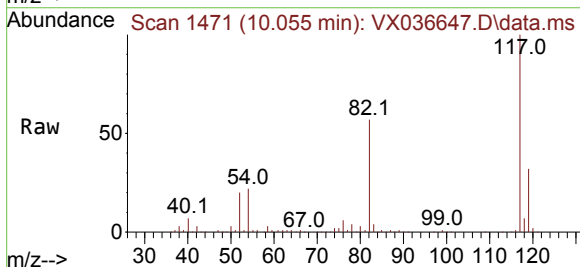
Instrument :
MSVOA_X
ClientSampleId :
34585DL

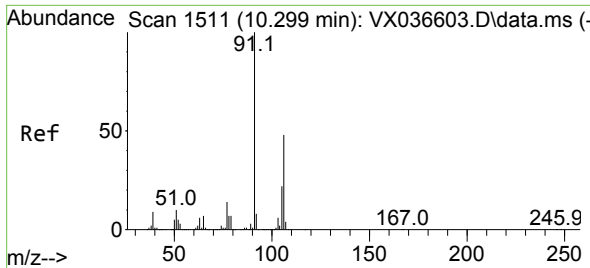
Tgt Ion: 95 Resp: 131285
Ion Ratio Lower Upper
95 100
174 72.2 0.0 135.6
176 70.2 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion: 117 Resp: 266611
Ion Ratio Lower Upper
117 100
82 56.8 46.2 69.4
119 31.7 25.5 38.3

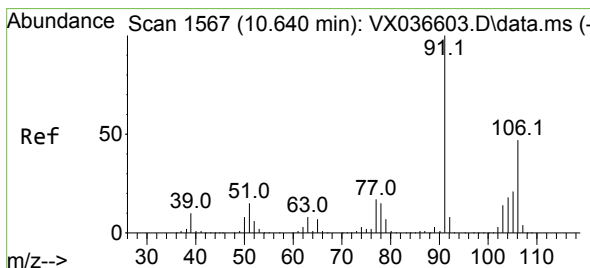
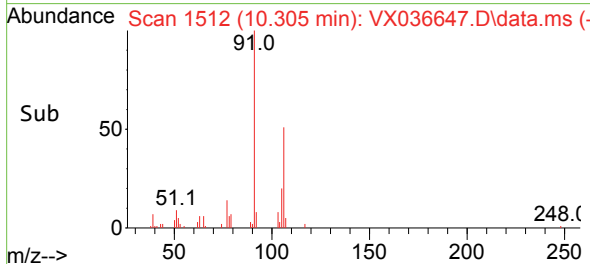
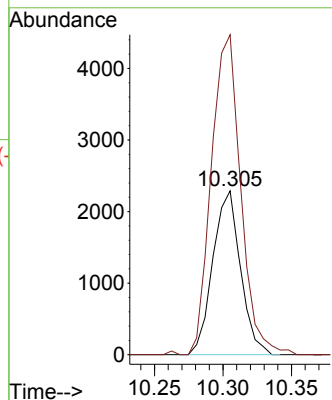
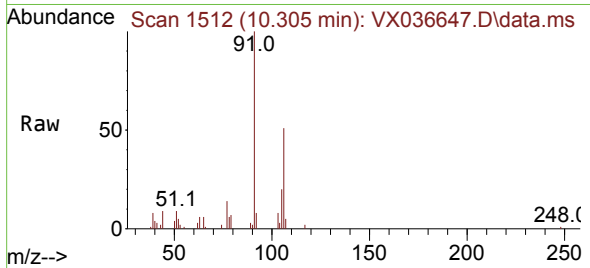




#68
m/p-Xylenes
Concen: 0.801 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

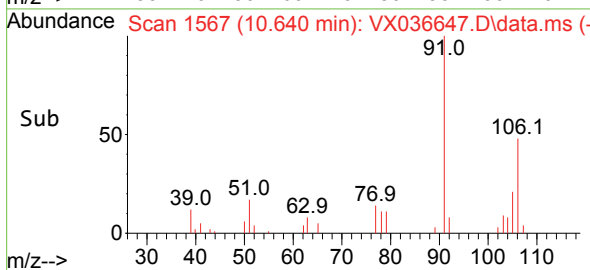
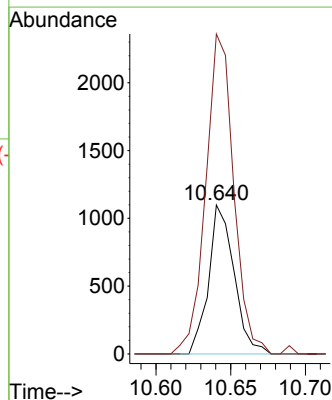
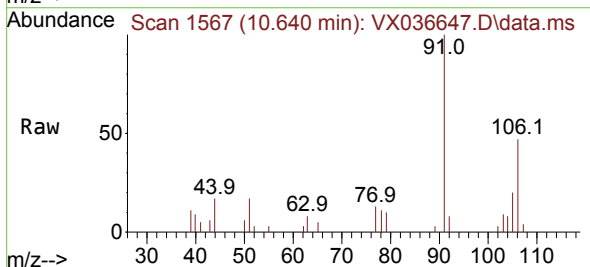
Instrument :
MSVOA_X
ClientSampleId :
34585DL

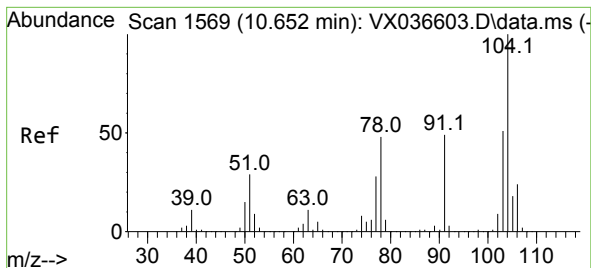
Tgt Ion:106 Resp: 3207
Ion Ratio Lower Upper
106 100
91 208.5 165.5 248.3



#69
o-Xylene
Concen: 0.325 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX036647.D
Acq: 25 Jul 2023 12:31

Tgt Ion:106 Resp: 1300
Ion Ratio Lower Upper
106 100
91 236.4 108.9 326.8





#70

Styrene

Concen: 0.346 ug/l

RT: 10.659 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

Instrument :

MSVOA_X

ClientSampleId :

34585DL

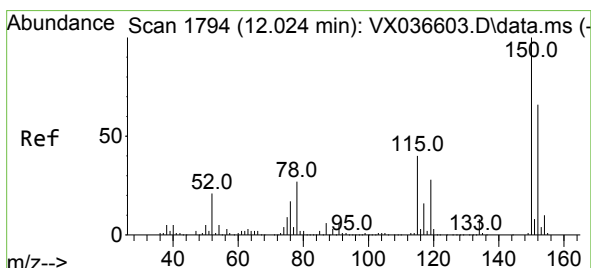
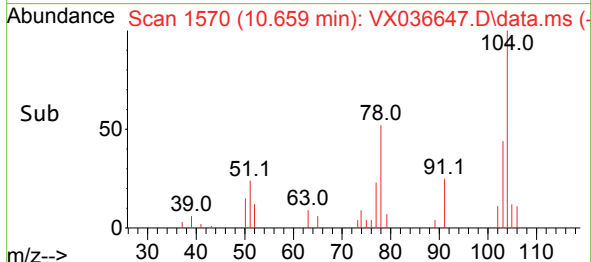
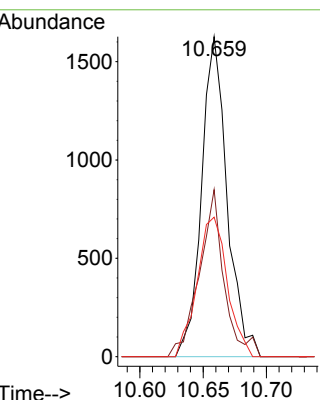
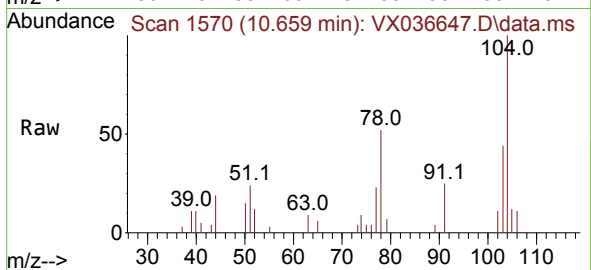
Tgt Ion:104 Resp: 2282

Ion Ratio Lower Upper

104 100

78 50.5 43.6 65.4

103 51.7 43.6 65.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

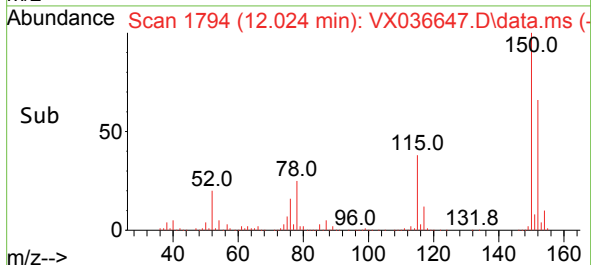
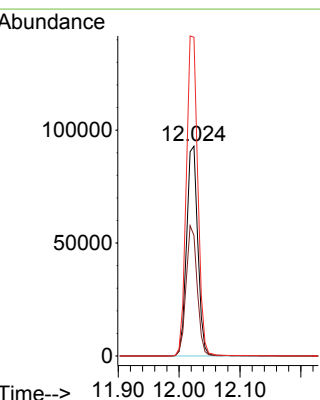
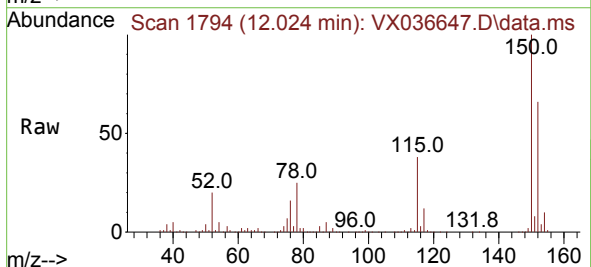
Tgt Ion:152 Resp: 118831

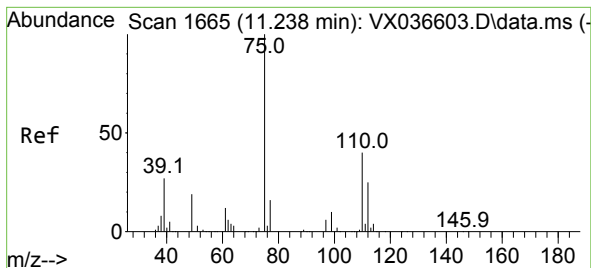
Ion Ratio Lower Upper

152 100

115 61.2 43.3 129.9

150 155.9 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 24.187 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

Instrument :

MSVOA_X

ClientSampleId :

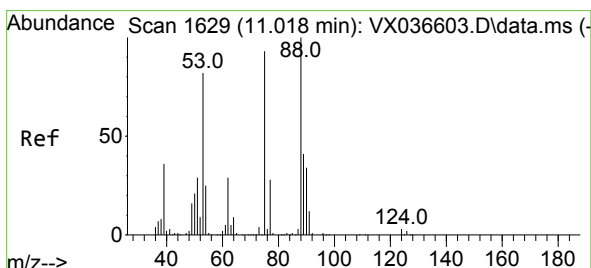
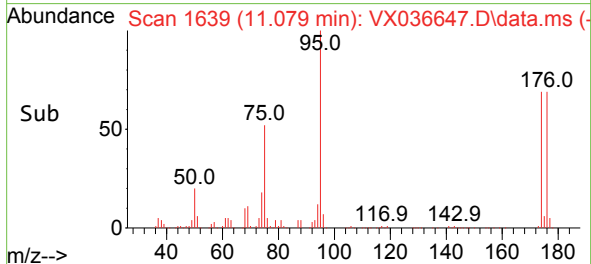
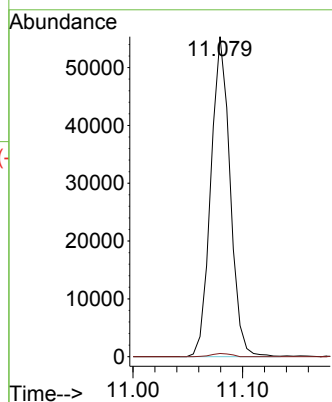
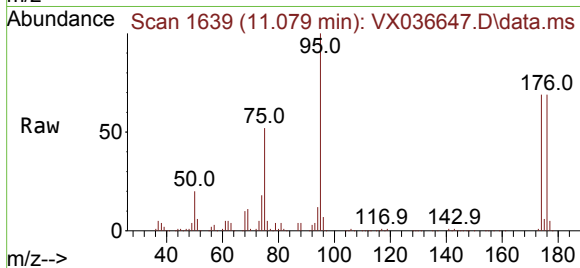
34585DL

Tgt Ion: 75 Resp: 67604

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.822 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

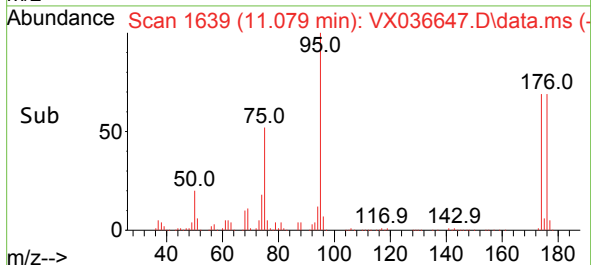
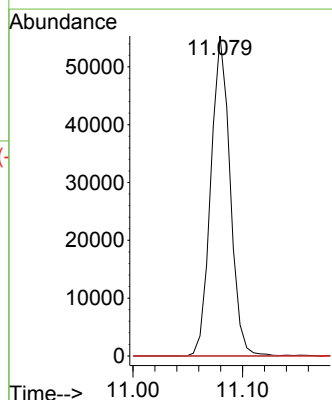
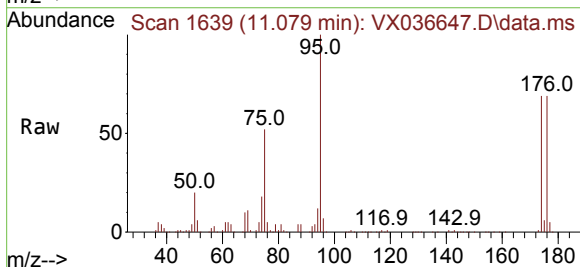
Tgt Ion: 75 Resp: 67604

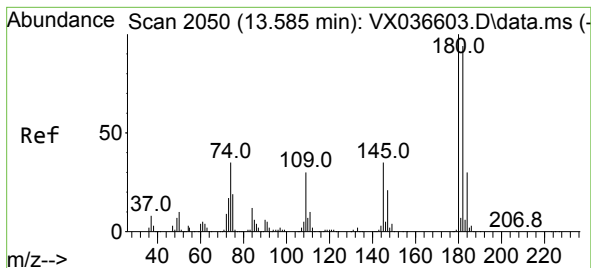
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#93

1,2,4-Trichlorobenzene

Concen: 0.255 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

Instrument :

MSVOA_X

ClientSampleId :

34585DL

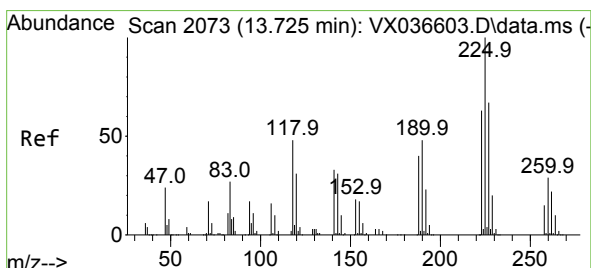
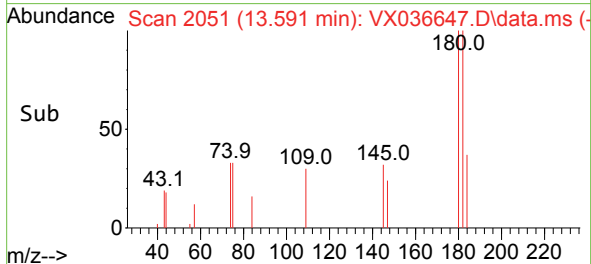
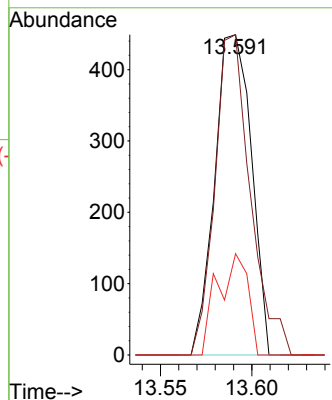
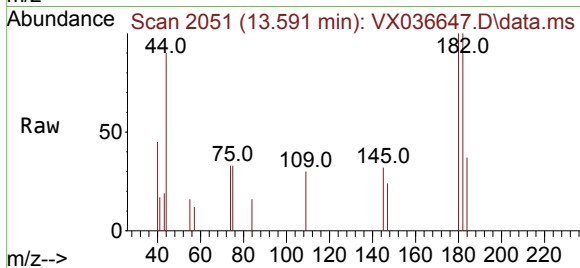
Tgt Ion:180 Resp: 628

Ion Ratio Lower Upper

180 100

182 96.8 48.3 144.8

145 26.1 18.0 54.0



#94

Hexachlorobutadiene

Concen: 0.383 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

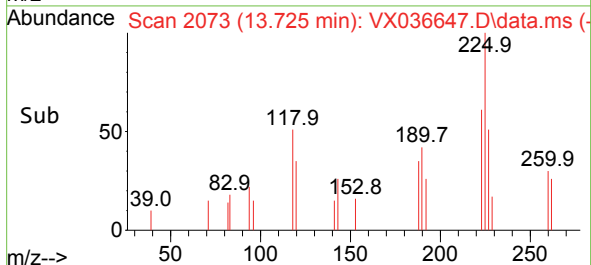
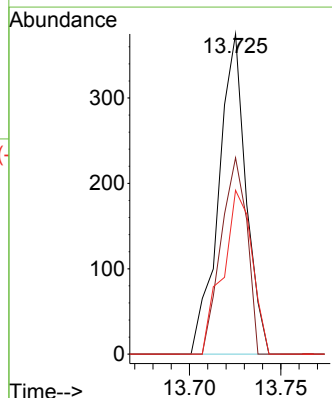
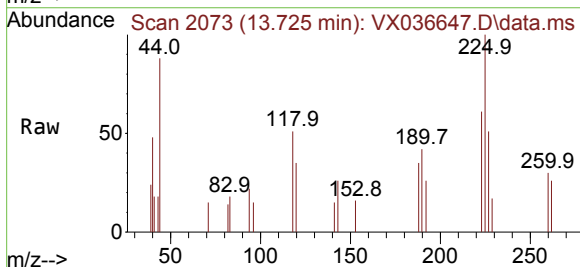
Tgt Ion:225 Resp: 391

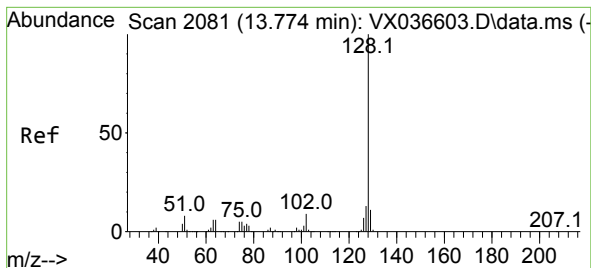
Ion Ratio Lower Upper

225 100

223 57.8 31.1 93.2

227 55.0 32.5 97.5





#95

Naphthalene

Concen: 2.904 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

Instrument :

MSVOA_X

ClientSampleId :

34585DL

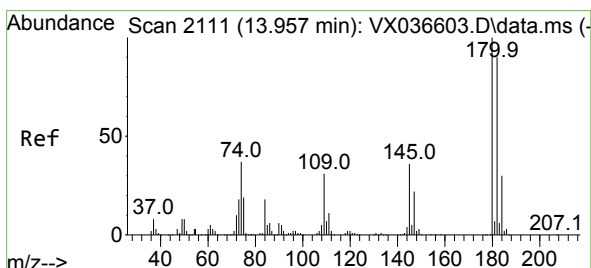
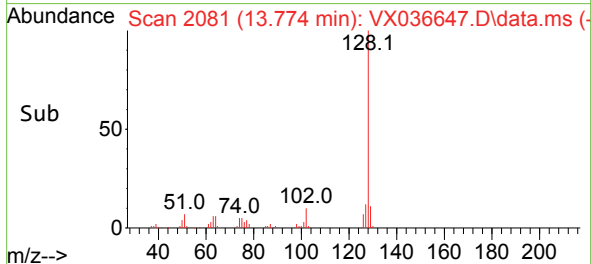
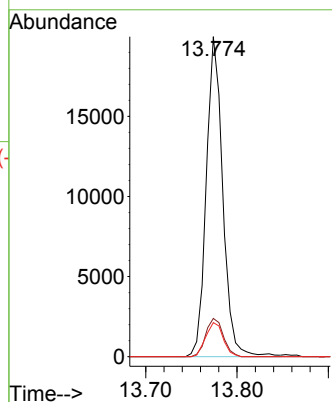
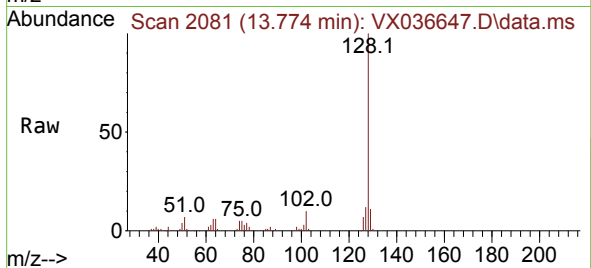
Tgt Ion:128 Resp: 24954

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

129 11.3 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.244 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VX036647.D

Acq: 25 Jul 2023 12:31

Tgt Ion:180 Resp: 593

Ion Ratio Lower Upper

180 100

182 88.2 46.9 140.6

145 26.6 17.8 53.5

