

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092723\
 Data File : VX037922.D
 Acq On : 27 Sep 2023 14:30
 Operator : JC/MD
 Sample : 04614-02 20X
 Misc : 5.04g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 28 01:21:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091523W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 16 04:55:44 2023
 Response via : Initial Calibration

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

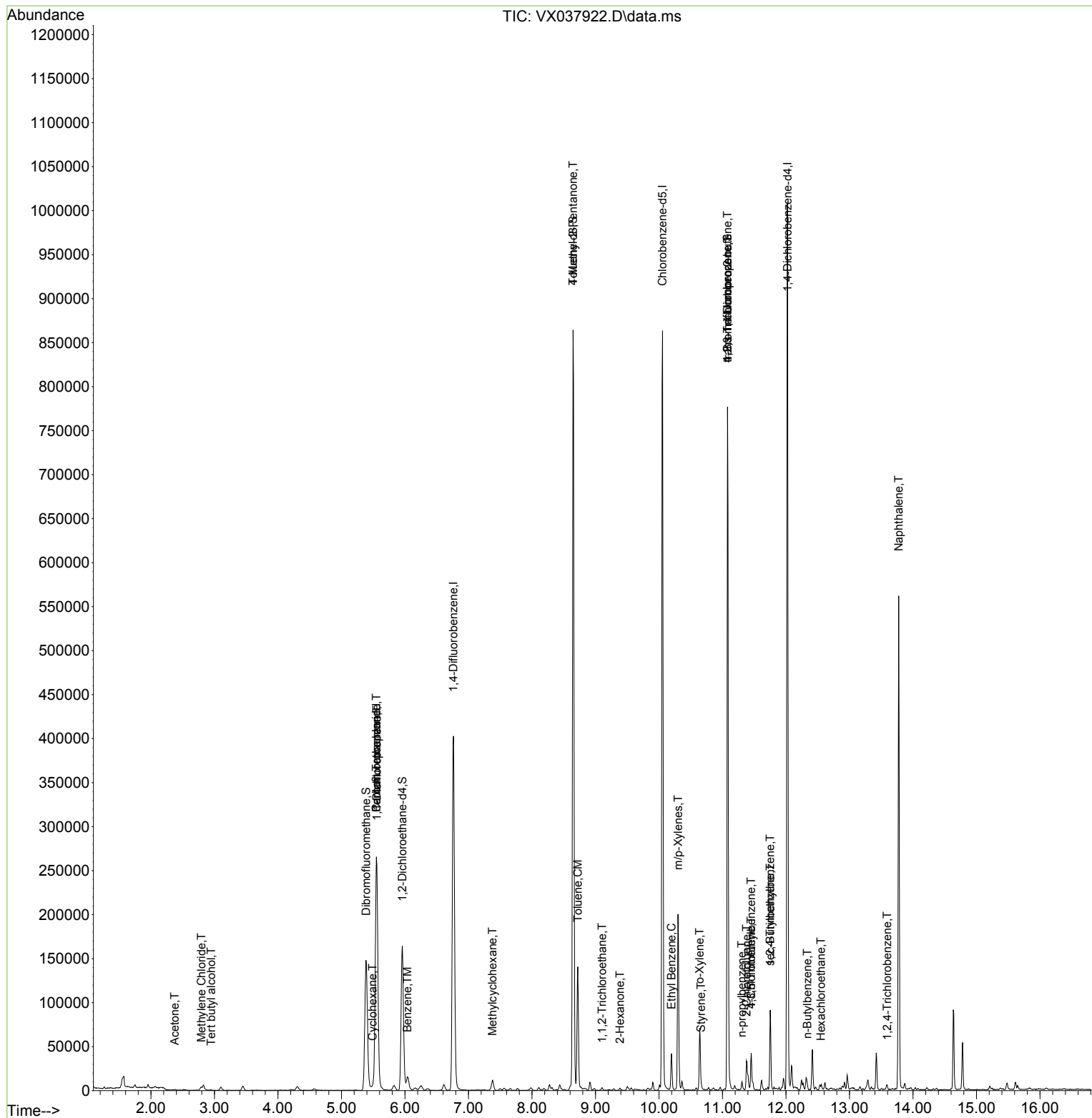
Internal Standards						
1) Pentafluorobenzene	5.550	168	262176	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	433658	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	416315	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	219351	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	153243	44.488	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	88.980%
35) Dibromofluoromethane	5.385	113	131915	45.462	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.920%
50) Toluene-d8	8.647	98	523751	48.579	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.160%
62) 4-Bromofluorobenzene	11.079	95	200563	51.194	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	102.380%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.947	59	307	0.415	ug/l #	78
16) Acetone	2.374	43	1140	0.688	ug/l #	87
20) Methylene Chloride	2.794	84	1398	0.431	ug/l #	80
31) Cyclohexane	5.489	56	1915	0.433	ug/l #	74
36) 1,1-Dichloropropene	5.556	75	19195	4.802	ug/l #	52
38) Carbon Tetrachloride	5.550	117	25456	6.087	ug/l #	15
39) Methylcyclohexane	7.379	83	5078	1.001	ug/l	89
40) Benzene	6.038	78	18484	1.504	ug/l	98
51) 4-Methyl-2-Pentanone	8.647	43	2856	0.641	ug/l #	1
52) Toluene	8.720	92	53893	6.803	ug/l	94
55) 1,1,2-Trichloroethane	9.104	97	892	0.267	ug/l #	17
59) 2-Hexanone	9.385	43	771	0.222	ug/l #	26
67) Ethyl Benzene	10.195	91	24012	1.542	ug/l	96
68) m/p-Xylenes	10.299	106	46226	7.684	ug/l	99
69) o-Xylene	10.640	106	15548	2.577	ug/l	98
70) Styrene	10.659	104	1971	0.204	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	99315	19.576	ug/l #	39
78) n-propylbenzene	11.305	91	6246	0.344	ug/l	94
79) 2-Chlorotoluene	11.378	91	3810	0.340	ug/l #	49
80) 1,3,5-Trimethylbenzene	11.451	105	17555	1.292	ug/l	96
81) trans-1,4-Dichloro-2-b...	11.079	75	99315	62.708	ug/l #	5
82) 4-Chlorotoluene	11.451	91	2889	0.229	ug/l #	61
84) 1,2,4-Trimethylbenzene	11.750	105	38843	2.873	ug/l	97
85) sec-Butylbenzene	11.750	105	38843	2.331	ug/l #	57
89) n-Butylbenzene	12.335	91	3350	0.275	ug/l #	49
90) Hexachloroethane	12.549	117	711	0.302	ug/l #	17
93) 1,2,4-Trichlorobenzene	13.591	180	990	0.222	ug/l #	89
95) Naphthalene	13.774	128	334597	22.156	ug/l	100

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

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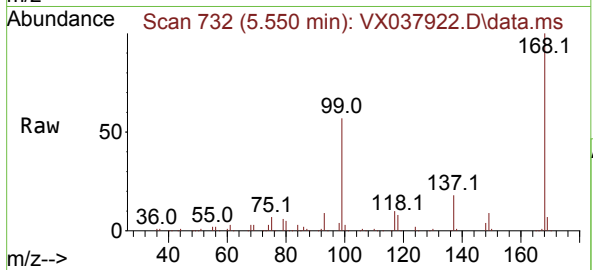
Quant Time: Sep 28 01:21:45 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091523W.M
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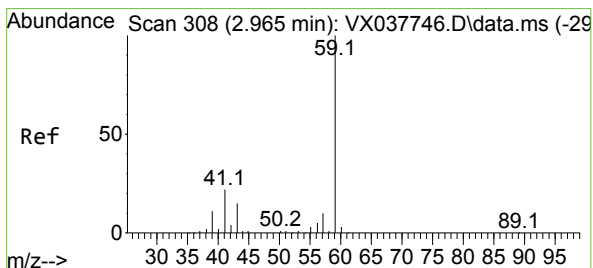
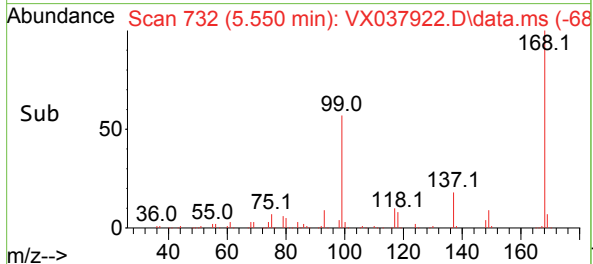
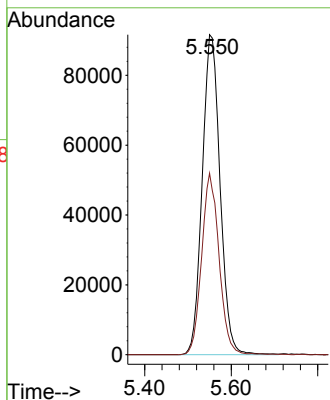


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Instrument :
MSVOA_X
ClientSampleId :

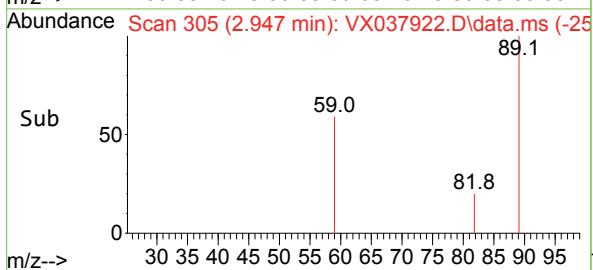
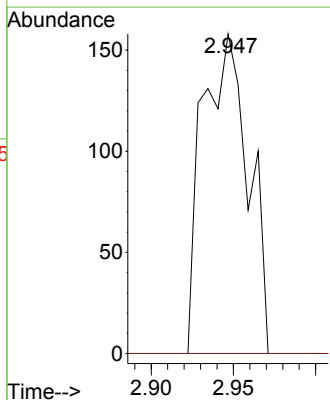
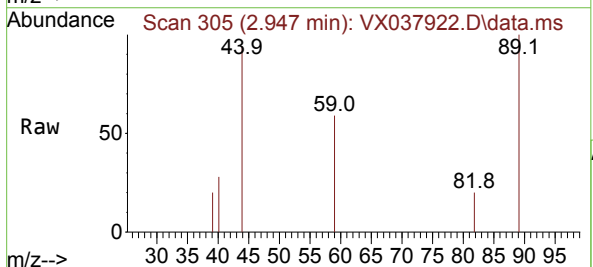


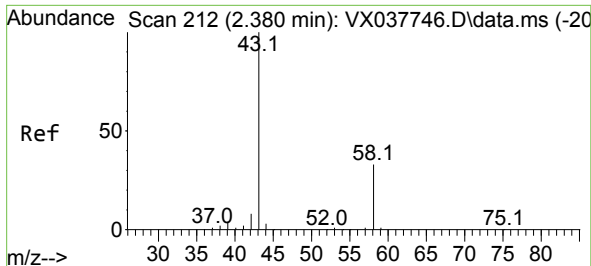
Tgt Ion:168 Resp: 262176
Ion Ratio Lower Upper
168 100
99 56.7 56.6 85.0



#11
Tert butyl alcohol
Concen: 0.415 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.018 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Tgt Ion: 59 Resp: 307
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#

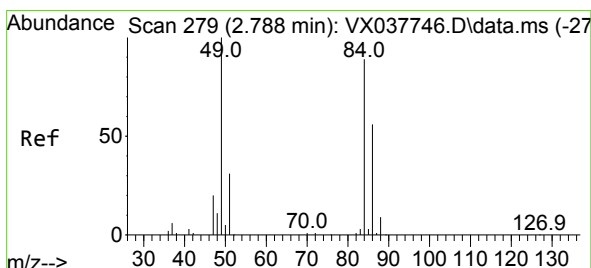
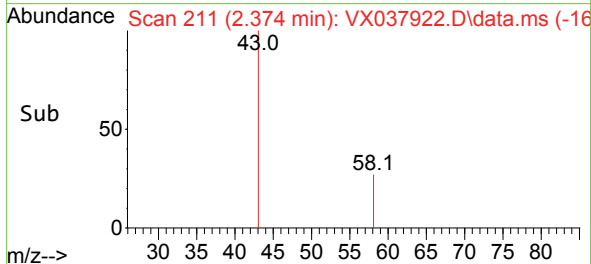
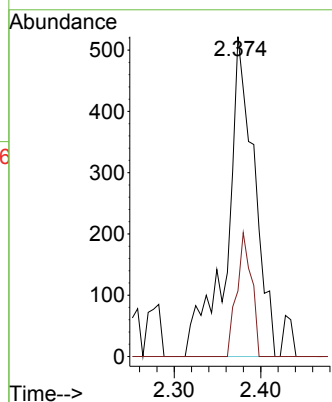
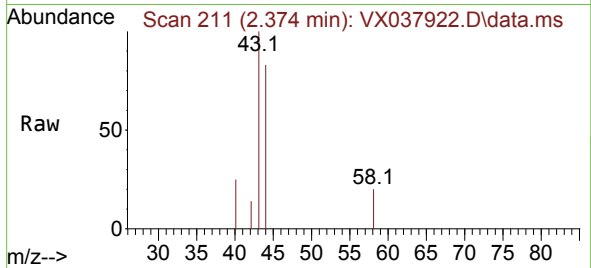




#16
Acetone
Concen: 0.688 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

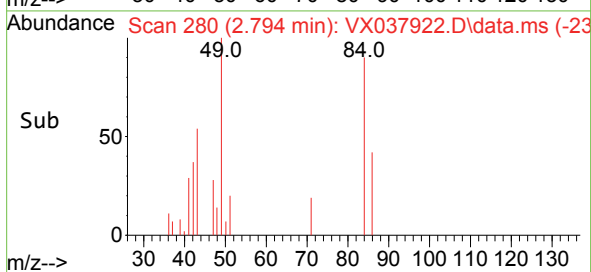
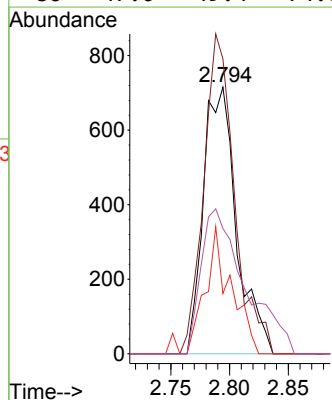
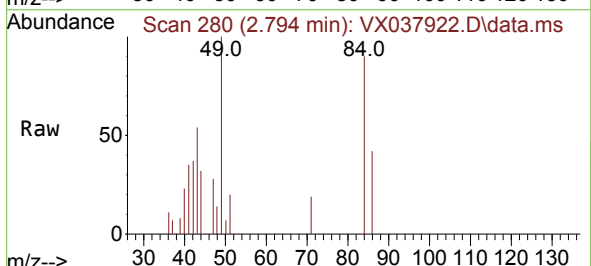
Instrument :
MSVOA_X
ClientSampleId :

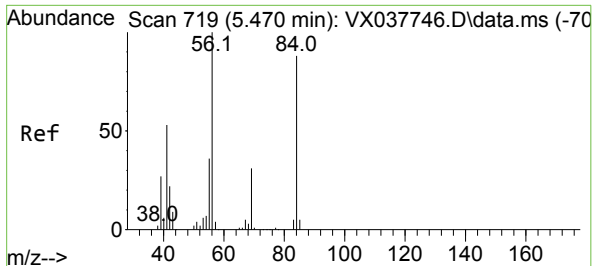
Tgt Ion: 43 Resp: 1140
Ion Ratio Lower Upper
43 100
58 20.5 21.9 32.9#



#20
Methylene Chloride
Concen: 0.431 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

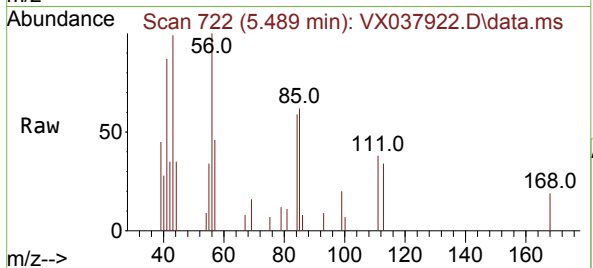
Tgt Ion: 84 Resp: 1398
Ion Ratio Lower Upper
84 100
49 110.6 103.6 155.4
51 22.7 33.8 50.6#
86 47.0 49.4 74.0#



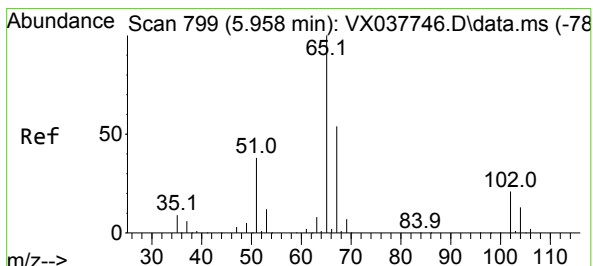
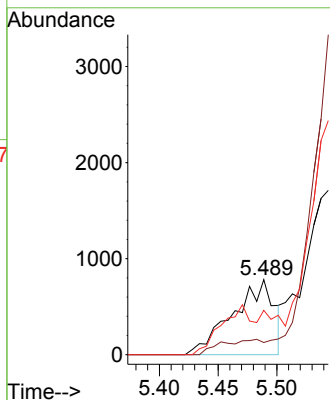
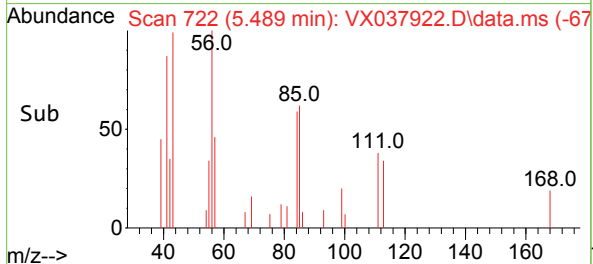


#31
Cyclohexane
Concen: 0.433 ug/l
RT: 5.489 min Scan# 719
Delta R.T. 0.019 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Instrument :
MSVOA_X
ClientSampleId :

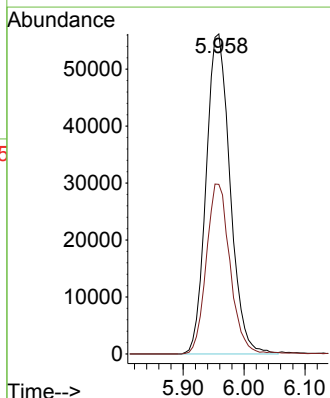
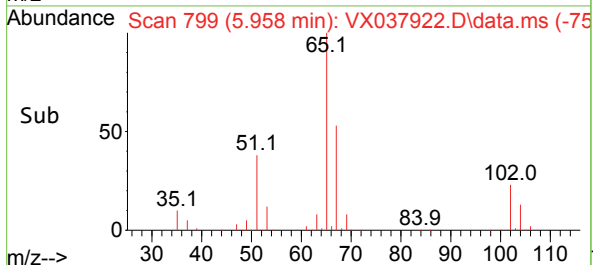
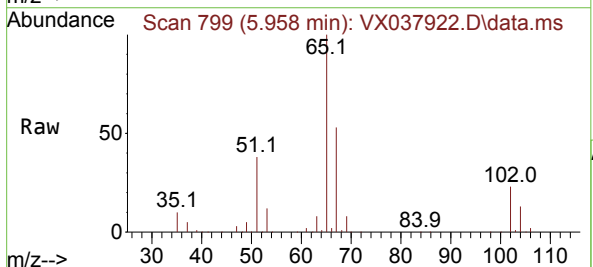


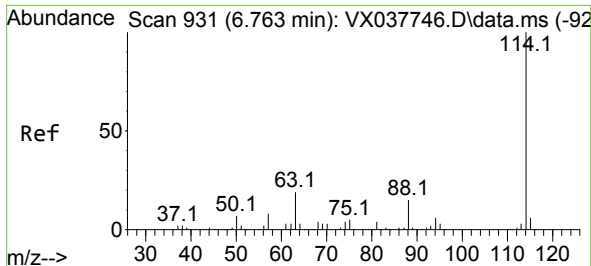
Tgt Ion: 56 Resp: 1915
Ion Ratio Lower Upper
56 100
69 16.1 23.4 35.2#
84 59.0 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 44.488 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Tgt Ion: 65 Resp: 153243
Ion Ratio Lower Upper
65 100
67 52.5 0.0 100.2

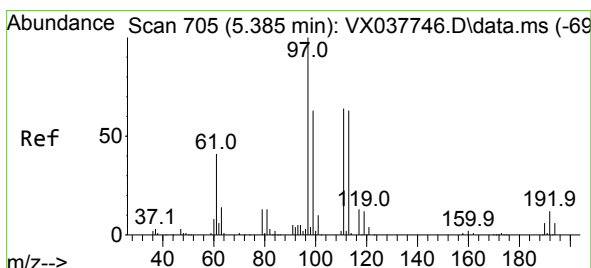
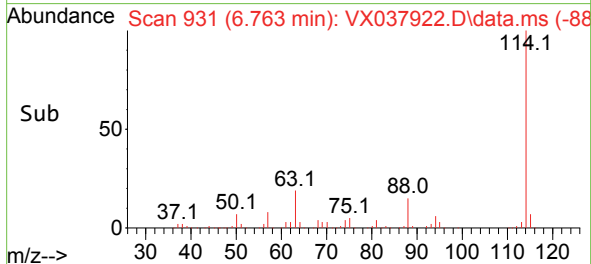
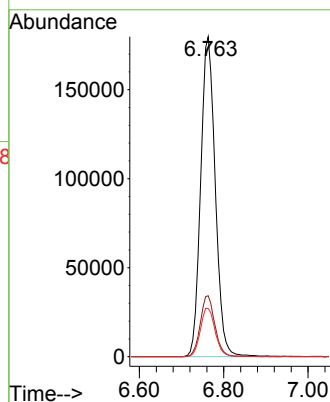
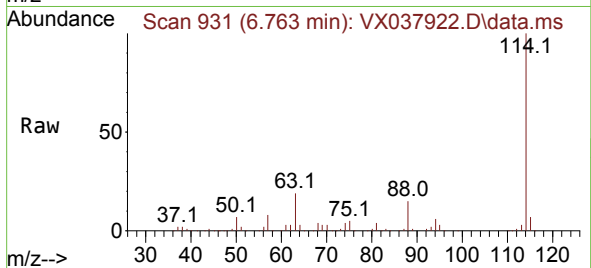




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

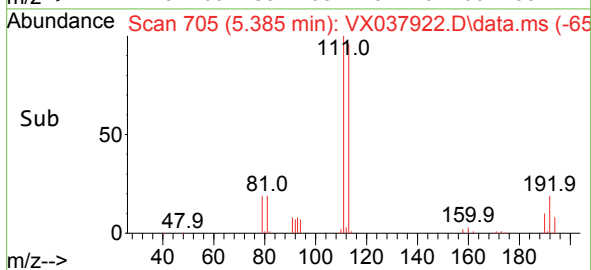
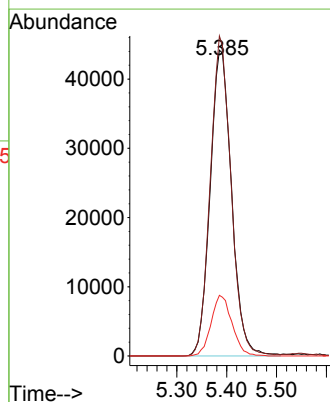
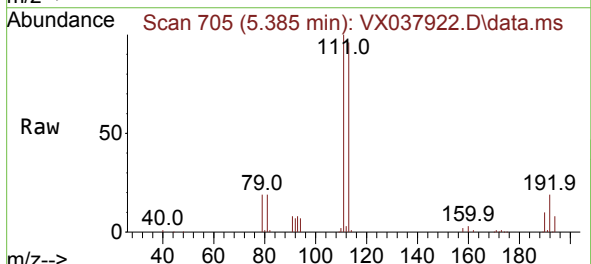
Instrument :
MSVOA_X
ClientSampleId :

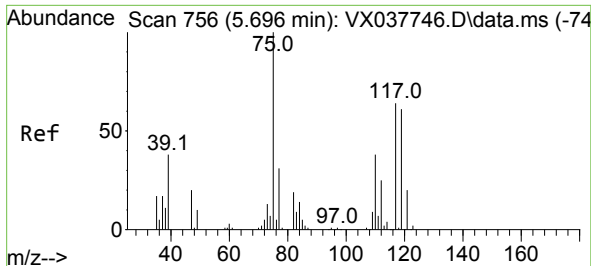
Tgt Ion:114 Resp: 433658
Ion Ratio Lower Upper
114 100
63 19.1 0.0 45.0
88 15.0 0.0 36.6



#35
Dibromofluoromethane
Concen: 45.462 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Tgt Ion:113 Resp: 131915
Ion Ratio Lower Upper
113 100
111 101.2 82.9 124.3
192 19.4 13.3 19.9

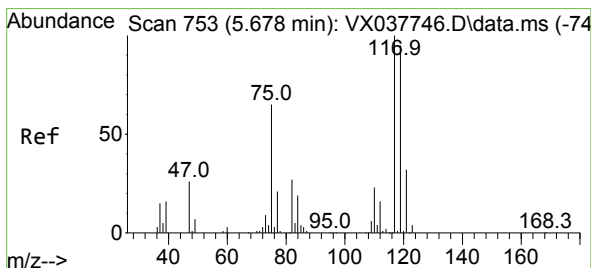
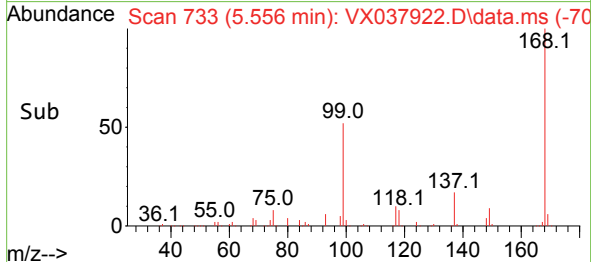
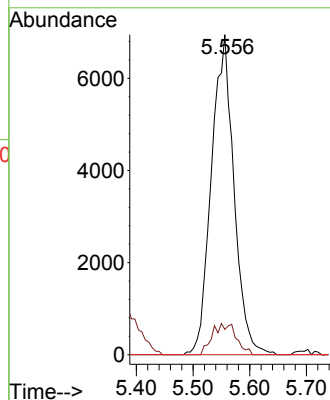
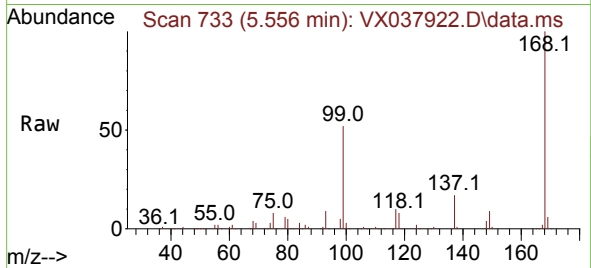




#36
1,1-Dichloropropene
Concen: 4.802 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

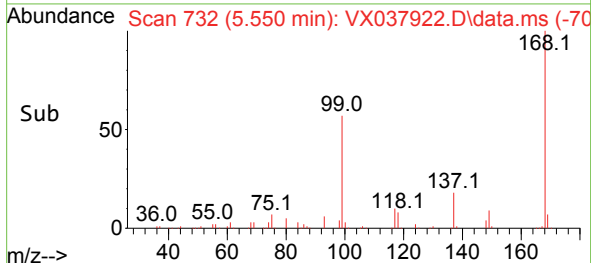
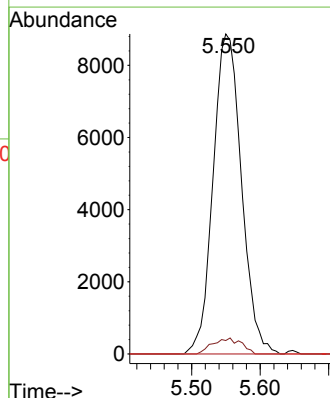
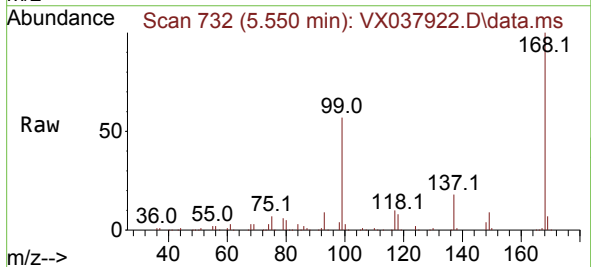
Instrument :
MSVOA_X
ClientSampleId :

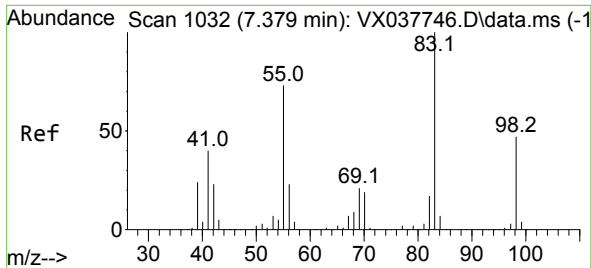
Tgt Ion: 75 Resp: 19195
Ion Ratio Lower Upper
75 100
110 10.3 17.0 50.9#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 6.087 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.128 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Tgt Ion: 117 Resp: 25456
Ion Ratio Lower Upper
117 100
119 4.2 78.2 117.2#
121 0.0 24.4 36.6#





#39

Methylcyclohexane

Concen: 1.001 ug/l

RT: 7.379 min Scan# 1032

Delta R.T. 0.000 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

Instrument :

MSVOA_X

ClientSampleId :

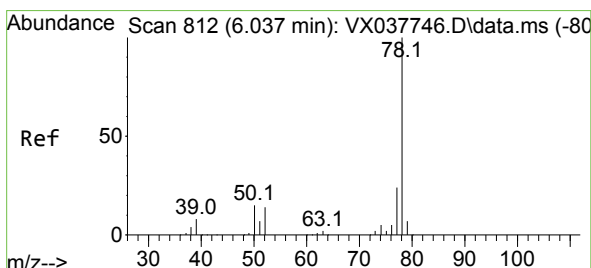
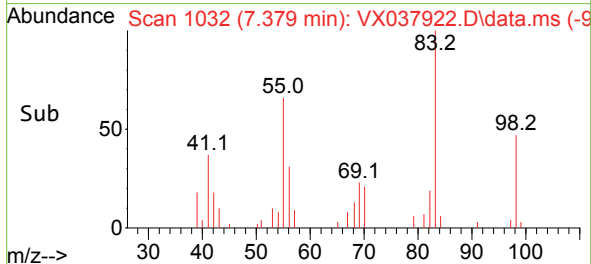
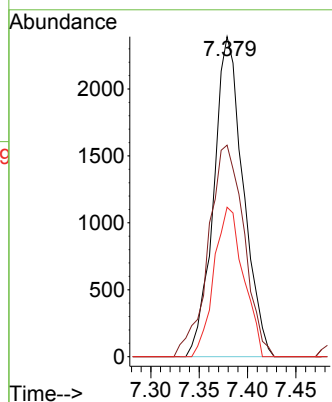
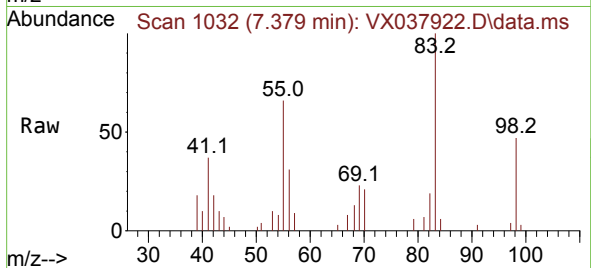
Tgt Ion: 83 Resp: 5078

Ion Ratio Lower Upper

83 100

55 66.1 64.6 97.0

98 46.7 36.7 55.1



#40

Benzene

Concen: 1.504 ug/l

RT: 6.038 min Scan# 812

Delta R.T. -0.006 min

Lab File: VX037922.D

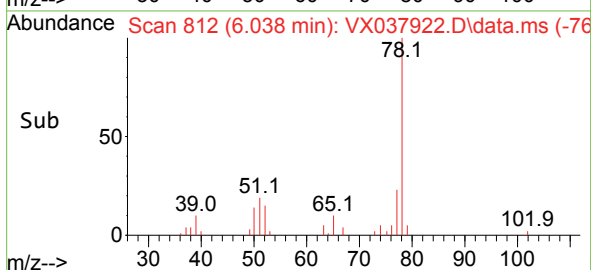
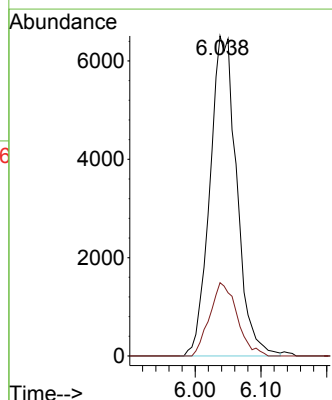
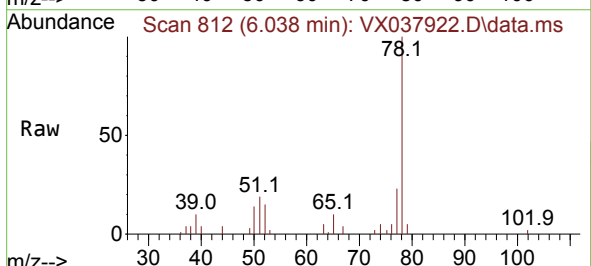
Acq: 27 Sep 2023 14:30

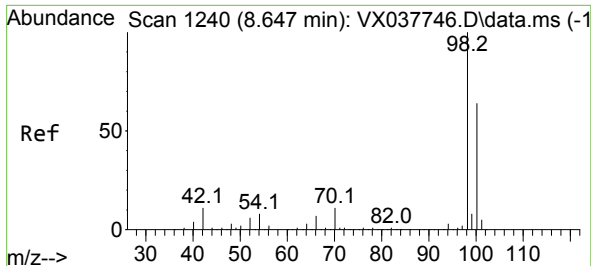
Tgt Ion: 78 Resp: 18484

Ion Ratio Lower Upper

78 100

77 22.9 19.3 28.9





#50

Toluene-d8

Concen: 48.579 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

Instrument :

MSVOA_X

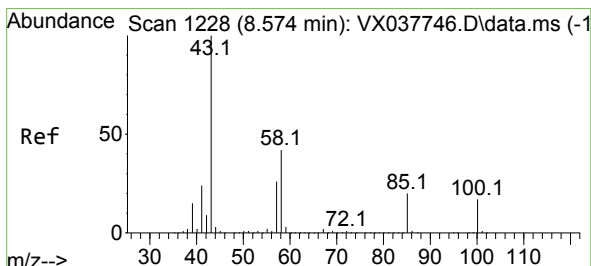
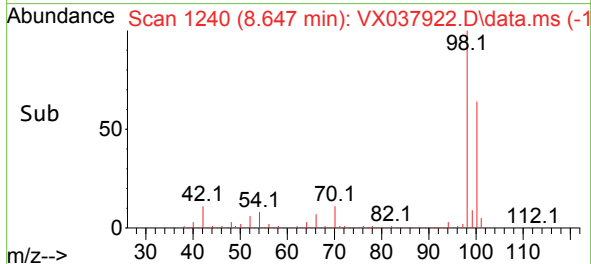
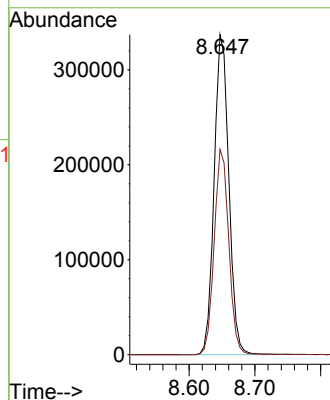
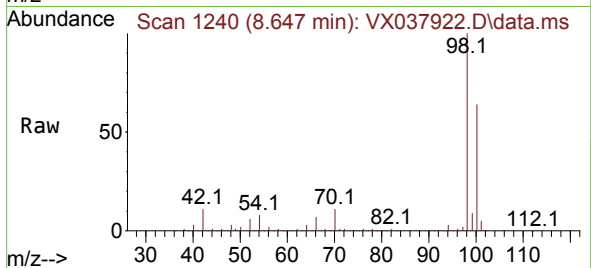
ClientSampleId :

Tgt Ion: 98 Resp: 523751

Ion Ratio Lower Upper

98 100

100 63.9 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.641 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX037922.D

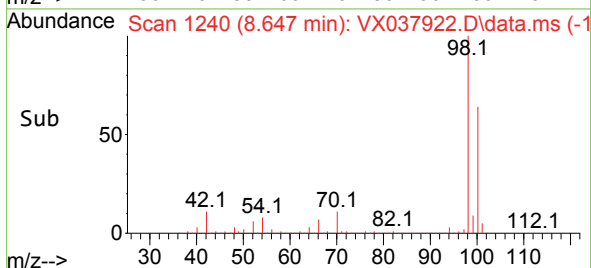
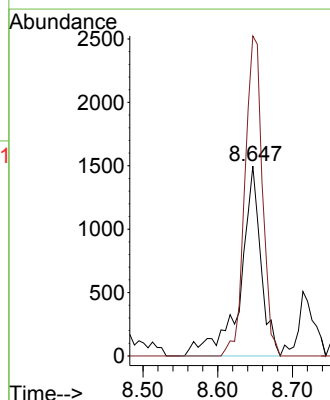
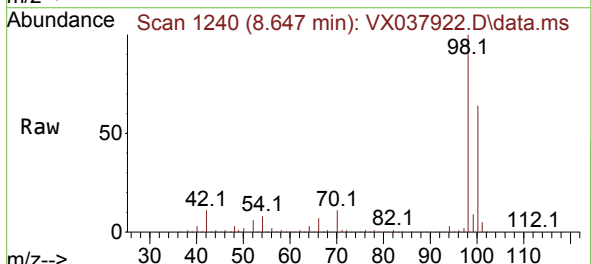
Acq: 27 Sep 2023 14:30

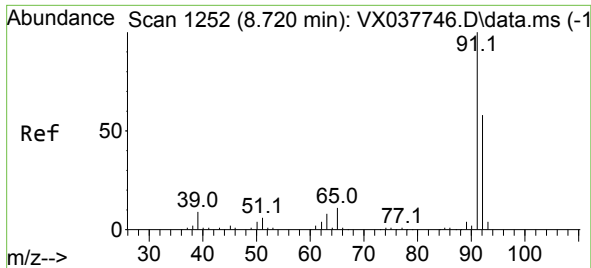
Tgt Ion: 43 Resp: 2856

Ion Ratio Lower Upper

43 100

58 143.8 30.4 45.6#

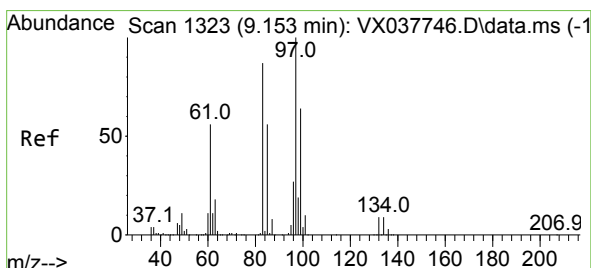
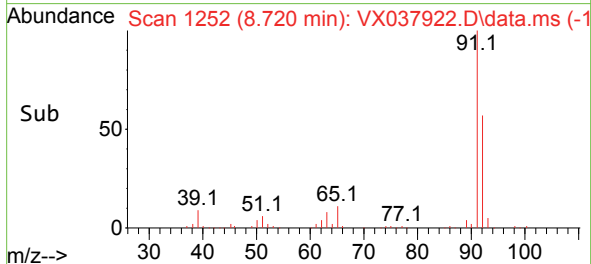
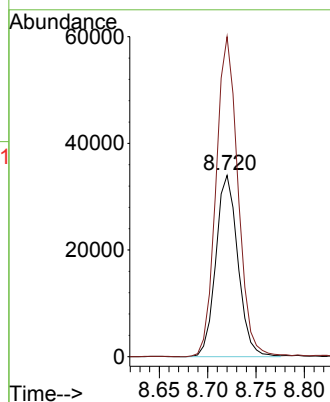
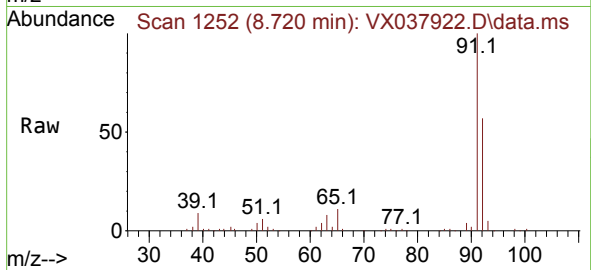




#52
Toluene
Concen: 6.803 ug/l
RT: 8.720 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

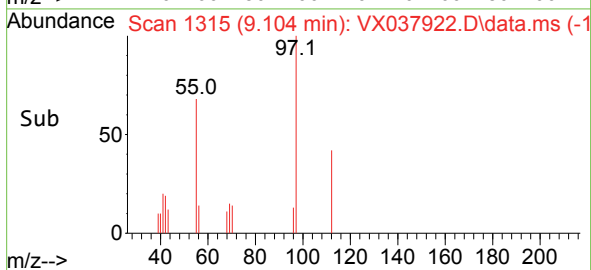
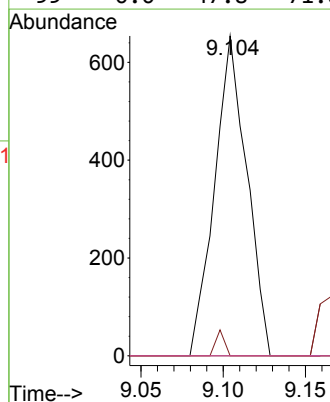
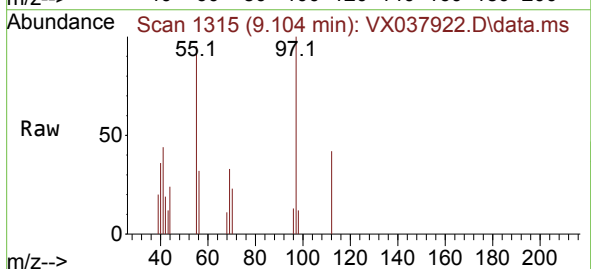
Instrument :
MSVOA_X
ClientSampleId :

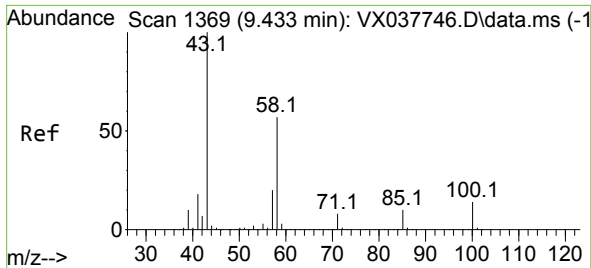
Tgt Ion: 92 Resp: 53893
Ion Ratio Lower Upper
92 100
91 176.4 134.2 201.2



#55
1,1,2-Trichloroethane
Concen: 0.267 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.049 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Tgt Ion: 97 Resp: 892
Ion Ratio Lower Upper
97 100
83 0.0 65.8 98.8#
85 0.0 41.6 62.4#
99 0.0 47.8 71.8#





#59

2-Hexanone

Concen: 0.222 ug/l

RT: 9.385 min Scan# 1361

Delta R.T. -0.049 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

Instrument :

MSVOA_X

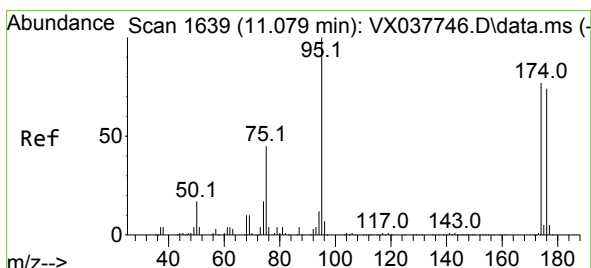
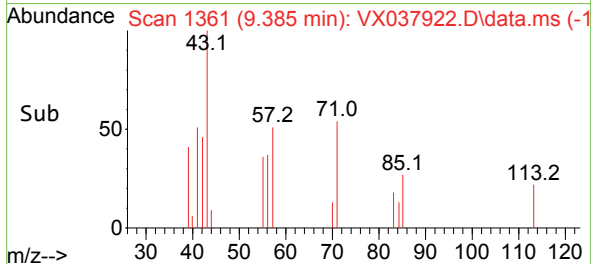
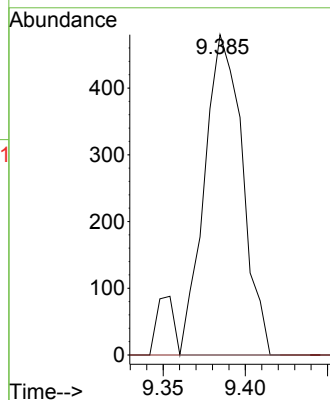
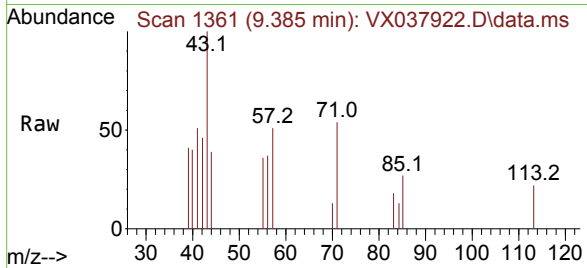
ClientSampleId :

Tgt Ion: 43 Resp: 771

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#



#62

4-Bromofluorobenzene

Concen: 51.194 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

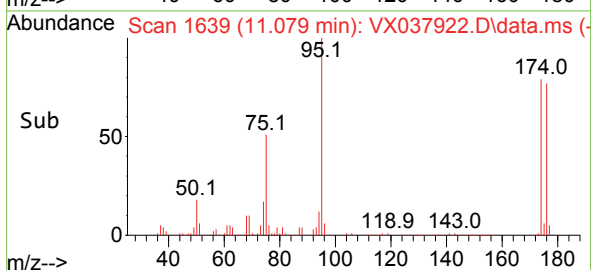
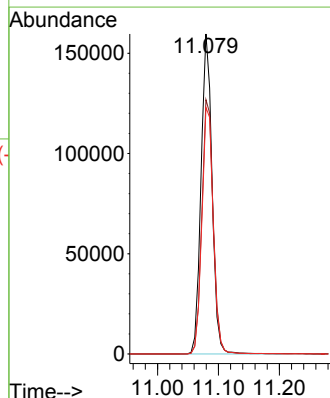
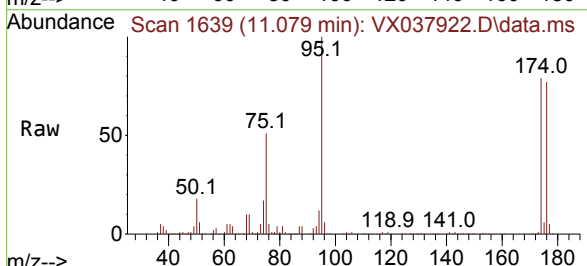
Tgt Ion: 95 Resp: 200563

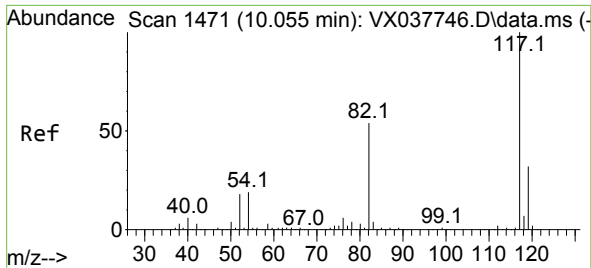
Ion Ratio Lower Upper

95 100

174 82.6 0.0 135.6

176 79.9 0.0 131.0

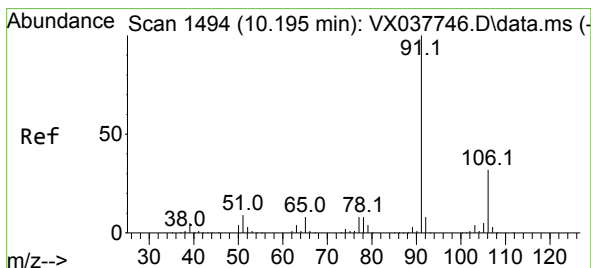
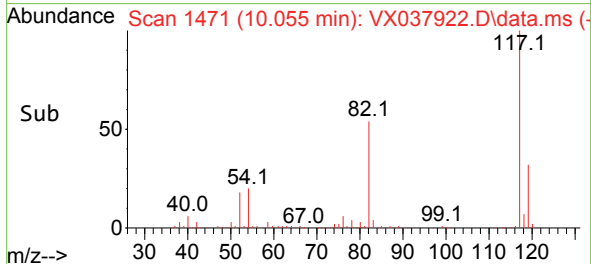
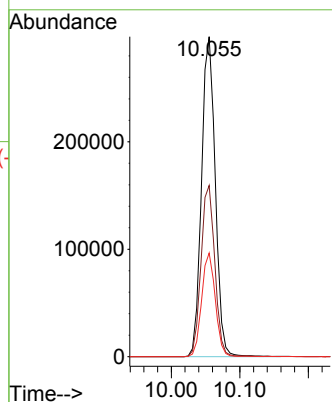
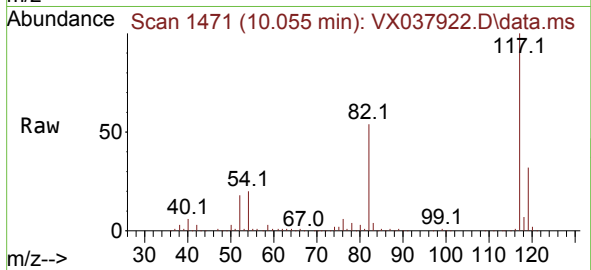




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

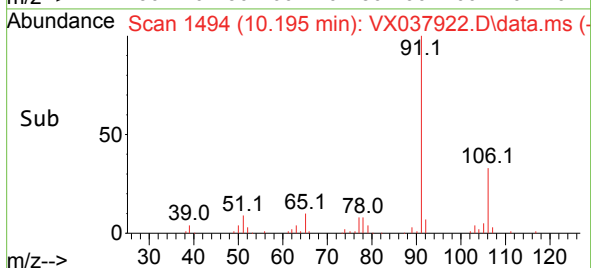
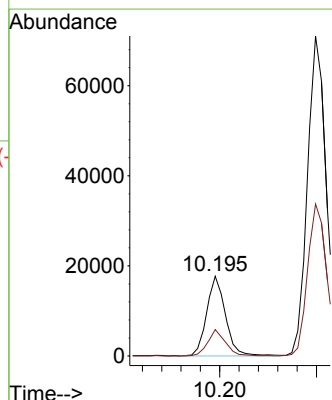
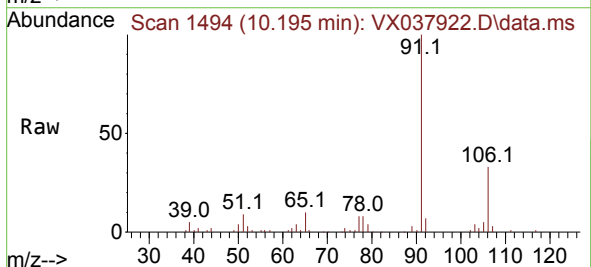
Instrument :
MSVOA_X
ClientSampleId :

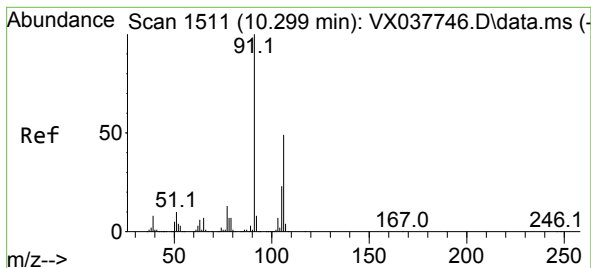
Tgt Ion:117 Resp: 416315
Ion Ratio Lower Upper
117 100
82 53.5 46.2 69.4
119 32.4 25.5 38.3



#67
Ethyl Benzene
Concen: 1.542 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Tgt Ion: 91 Resp: 24012
Ion Ratio Lower Upper
91 100
106 33.1 24.9 37.3

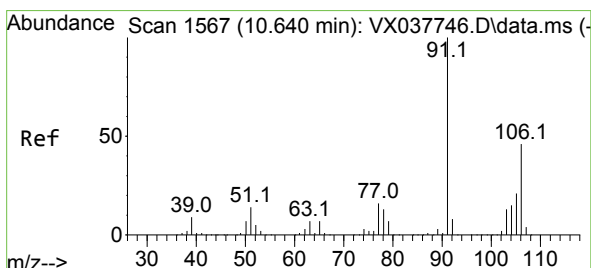
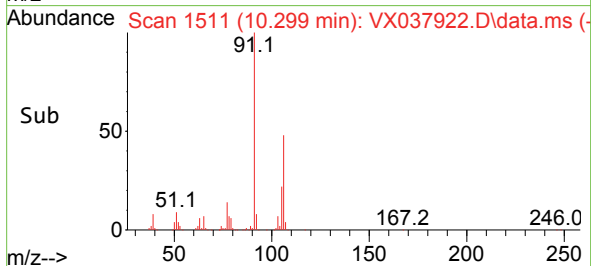
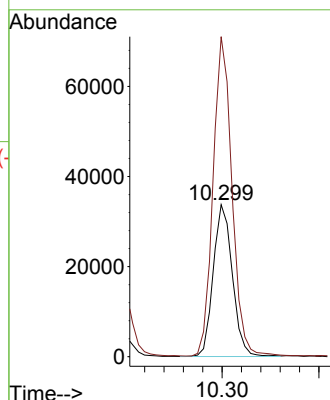
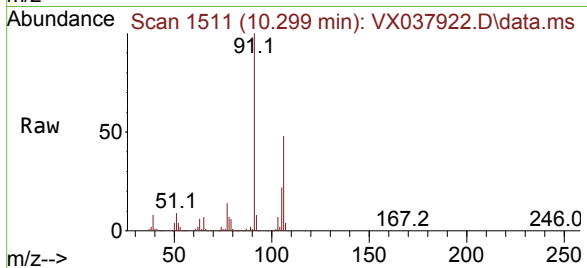




#68
m/p-Xylenes
Concen: 7.684 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

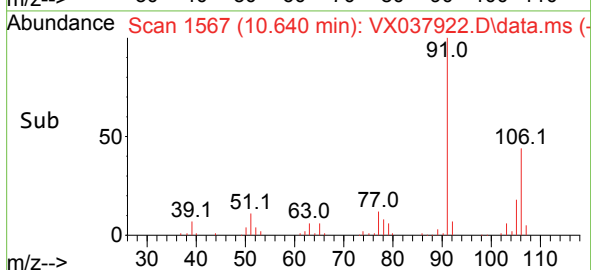
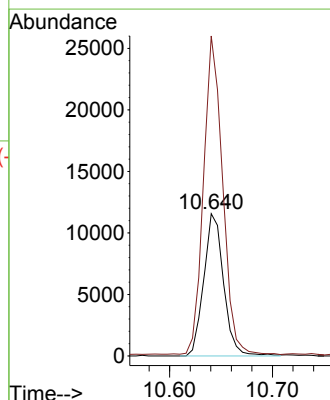
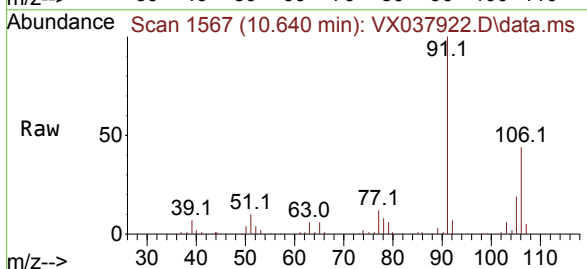
Instrument :
MSVOA_X
ClientSampleId :

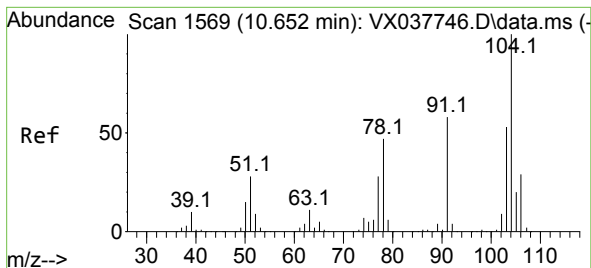
Tgt Ion:106 Resp: 46226
Ion Ratio Lower Upper
106 100
91 208.7 165.5 248.3



#69
o-Xylene
Concen: 2.577 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.006 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Tgt Ion:106 Resp: 15548
Ion Ratio Lower Upper
106 100
91 214.8 108.9 326.8





#70

Styrene

Concen: 0.204 ug/l

RT: 10.659 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX037922.D

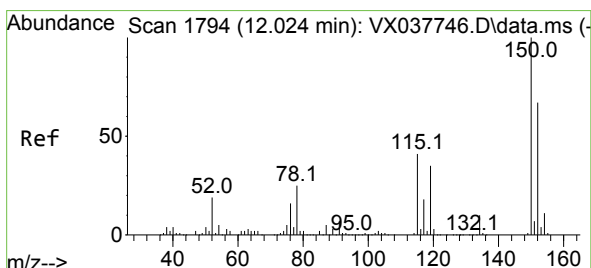
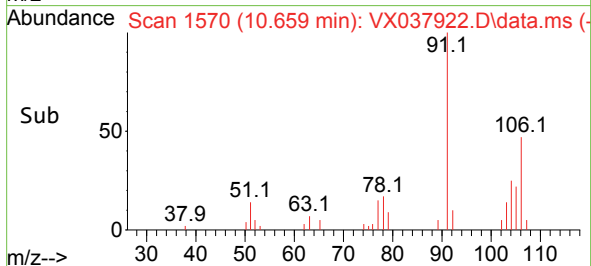
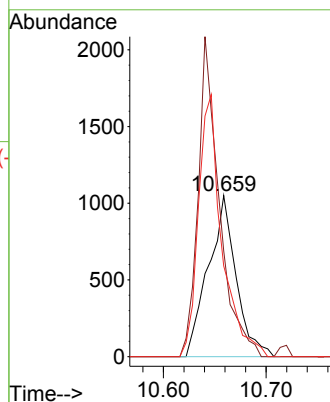
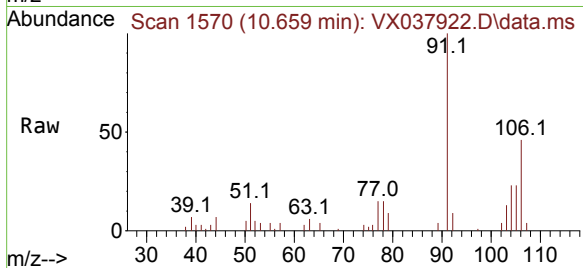
Acq: 27 Sep 2023 14:30

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:104	Resp:	1971
Ion Ratio	Lower	Upper
104	100	
78	151.2	43.6 65.4#
103	137.5	43.6 65.4#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

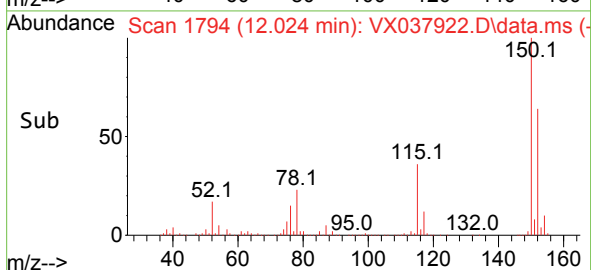
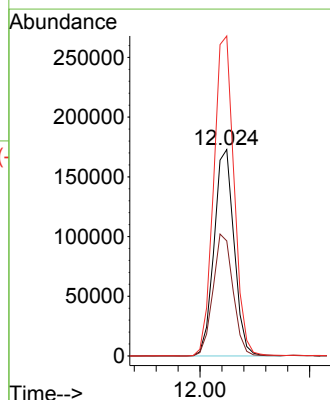
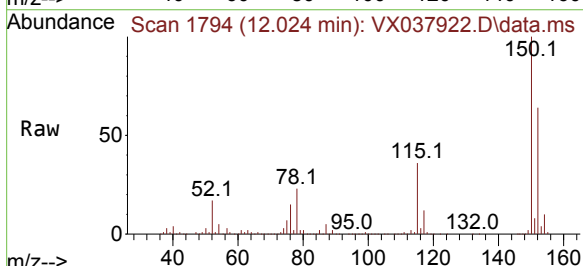
RT: 12.024 min Scan# 1794

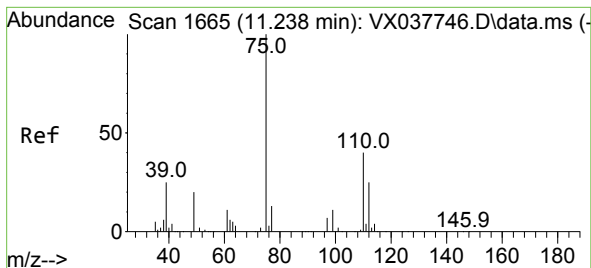
Delta R.T. 0.000 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

Tgt Ion:152	Resp:	219351
Ion Ratio	Lower	Upper
152	100	
115	59.2	43.3 129.9
150	158.2	0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 19.576 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

Instrument :

MSVOA_X

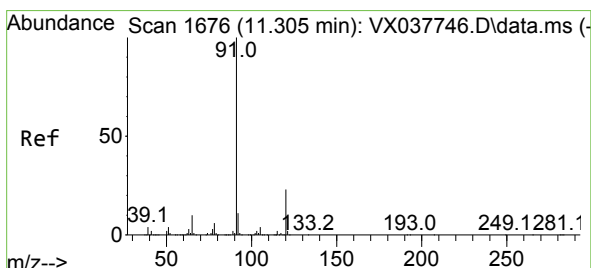
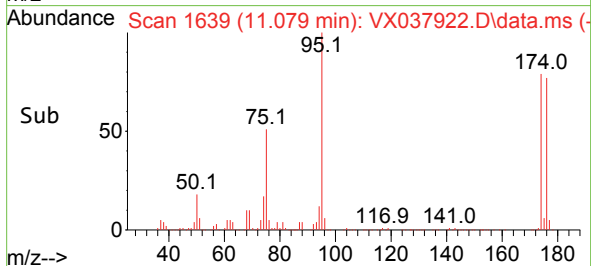
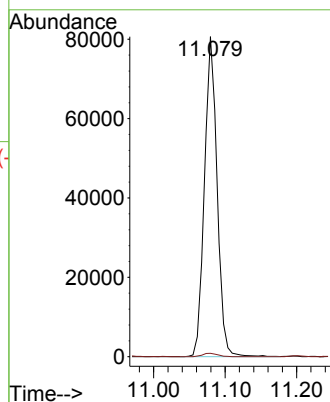
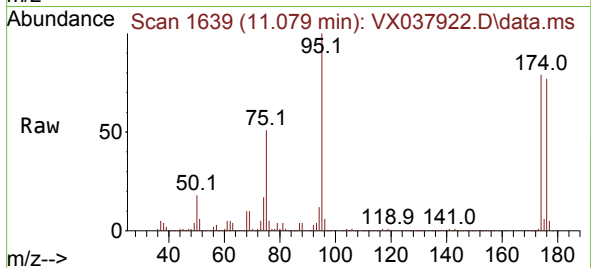
ClientSampleId :

Tgt Ion: 75 Resp: 99315

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#78

n-propylbenzene

Concen: 0.344 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX037922.D

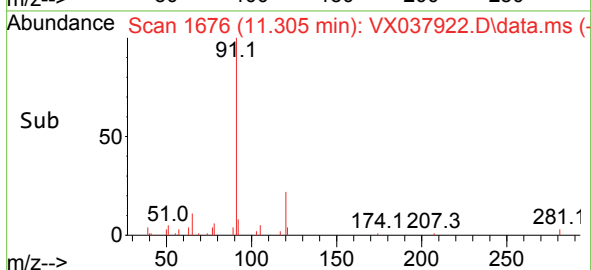
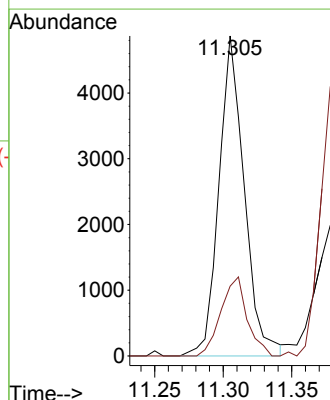
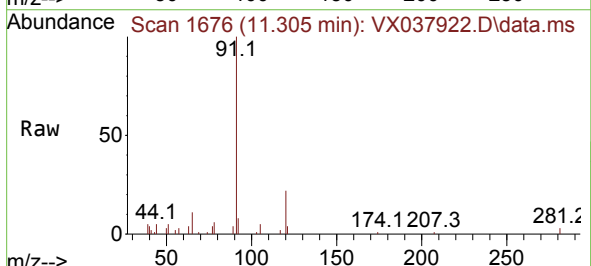
Acq: 27 Sep 2023 14:30

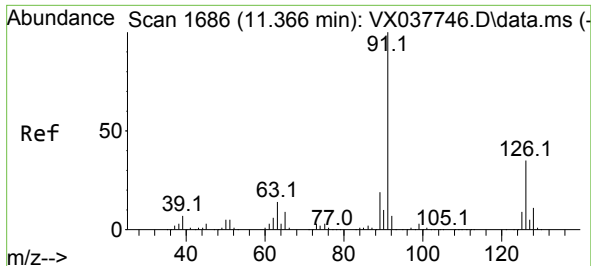
Tgt Ion: 91 Resp: 6246

Ion Ratio Lower Upper

91 100

120 25.6 11.5 34.4





#79

2-Chlorotoluene

Concen: 0.340 ug/l

RT: 11.378 min Scan# 1

Delta R.T. 0.012 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

Instrument :

MSVOA_X

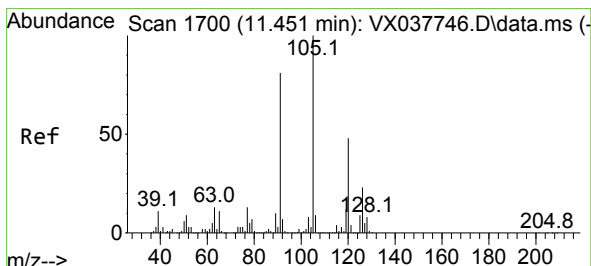
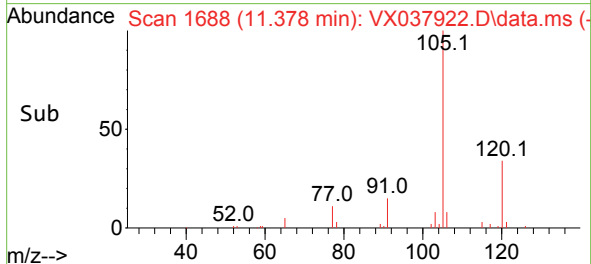
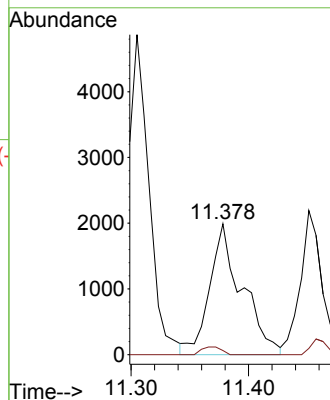
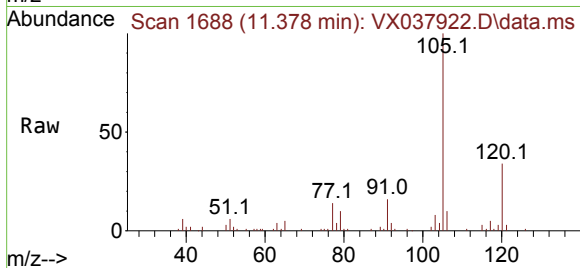
ClientSampleId :

Tgt Ion: 91 Resp: 3810

Ion Ratio Lower Upper

91 100

126 3.7 16.3 48.8#



#80

1,3,5-Trimethylbenzene

Concen: 1.292 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX037922.D

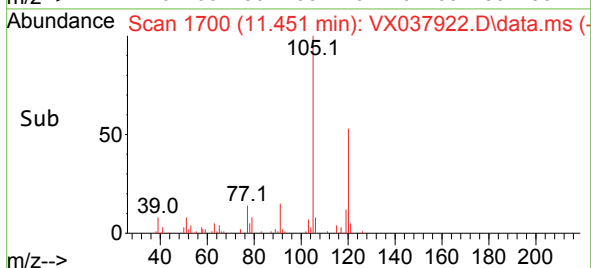
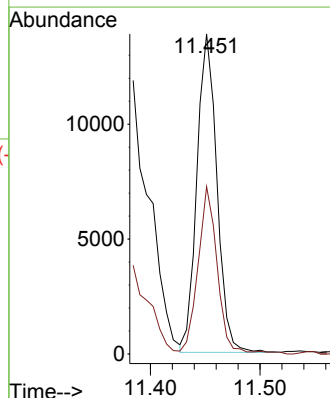
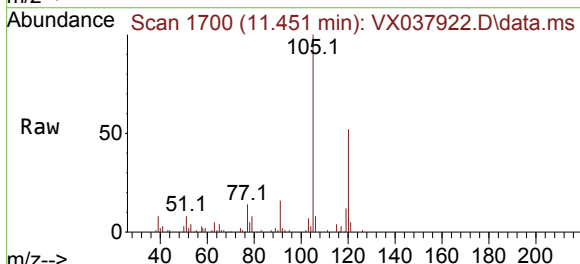
Acq: 27 Sep 2023 14:30

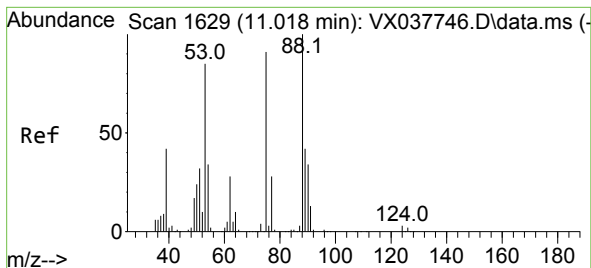
Tgt Ion: 105 Resp: 17555

Ion Ratio Lower Upper

105 100

120 50.9 24.1 72.3

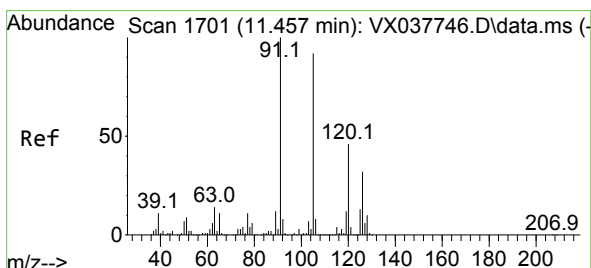
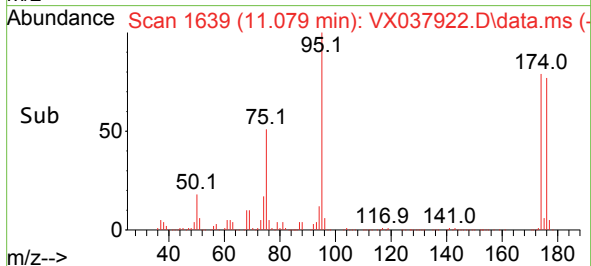
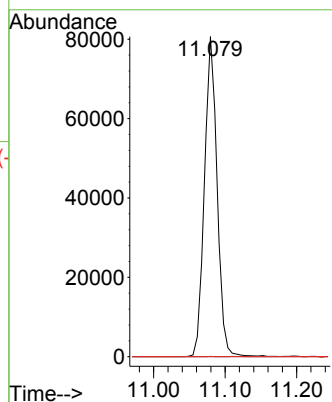
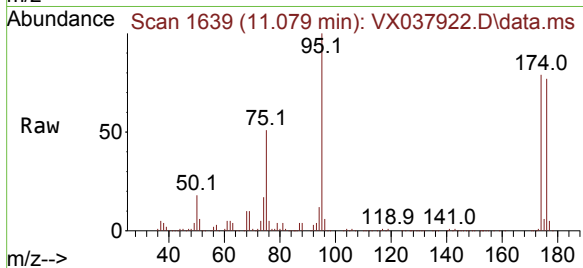




#81
trans-1,4-Dichloro-2-butene
Concen: 62.708 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

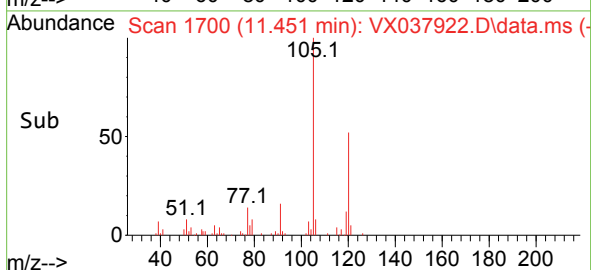
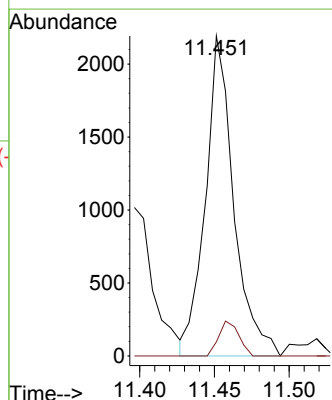
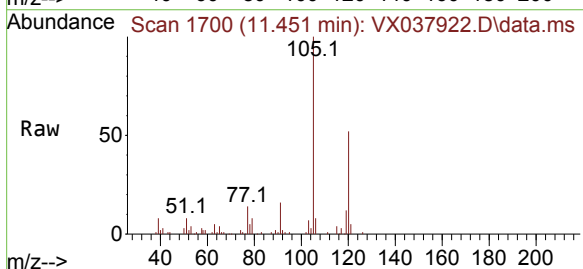
Instrument :
MSVOA_X
ClientSampleId :

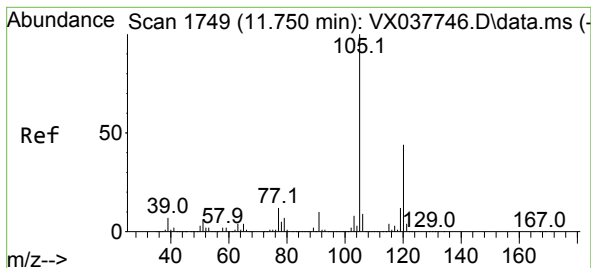
Tgt Ion: 75 Resp: 99315
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#82
4-Chlorotoluene
Concen: 0.229 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.006 min
Lab File: VX037922.D
Acq: 27 Sep 2023 14:30

Tgt Ion: 91 Resp: 2889
Ion Ratio Lower Upper
91 100
126 7.7 14.2 42.6#





#84

1,2,4-Trimethylbenzene

Concen: 2.873 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.006 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

Instrument :

MSVOA_X

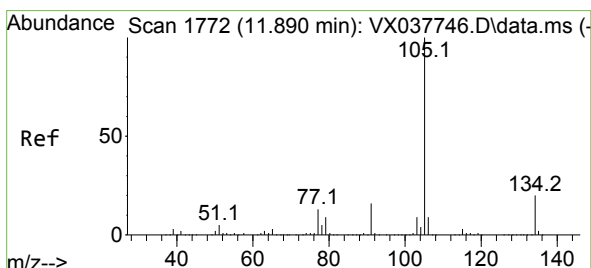
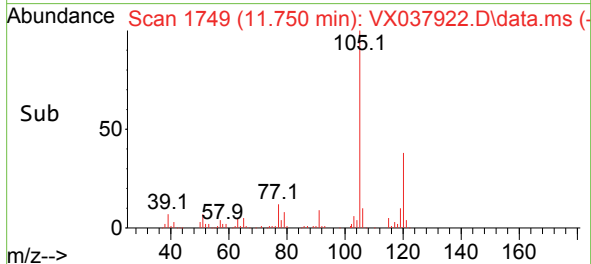
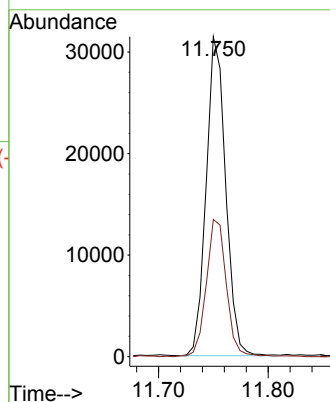
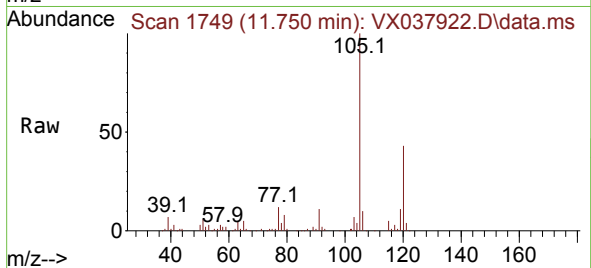
ClientSampleId :

Tgt Ion:105 Resp: 38843

Ion Ratio Lower Upper

105 100

120 44.5 21.2 63.6



#85

sec-Butylbenzene

Concen: 2.331 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.140 min

Lab File: VX037922.D

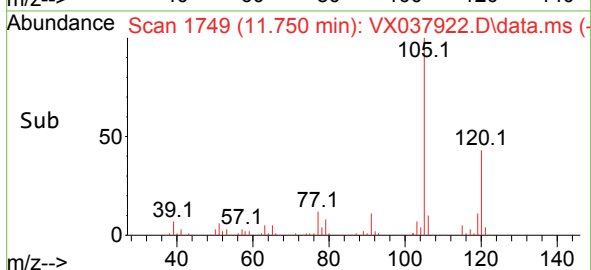
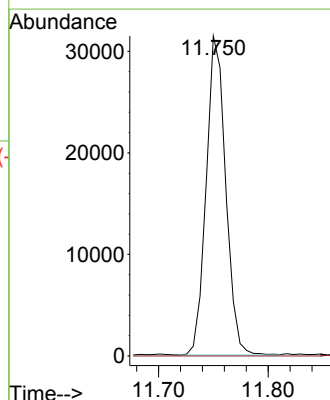
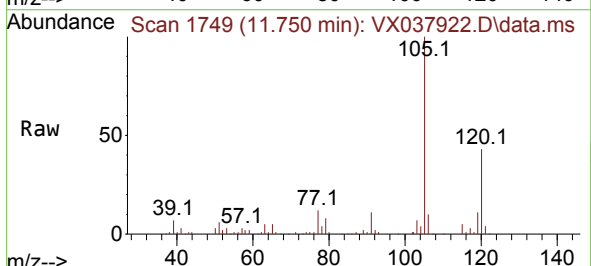
Acq: 27 Sep 2023 14:30

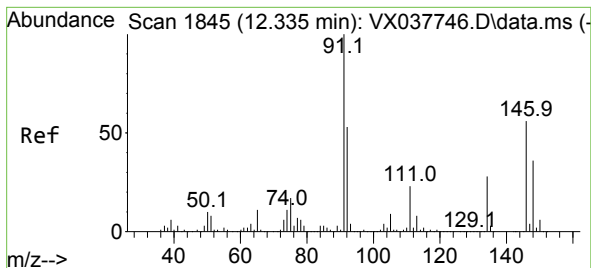
Tgt Ion:105 Resp: 38843

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.4#





#89

n-Butylbenzene

Concen: 0.275 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX037922.D

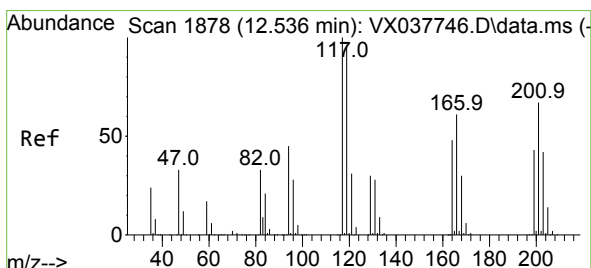
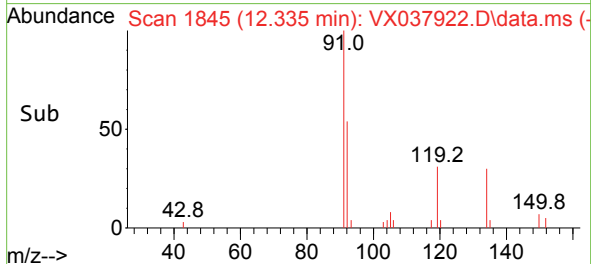
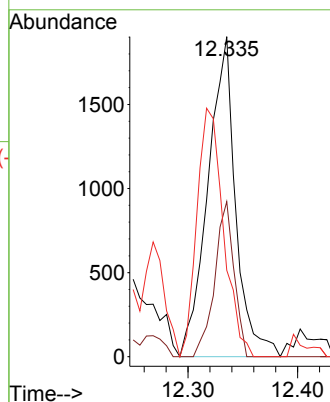
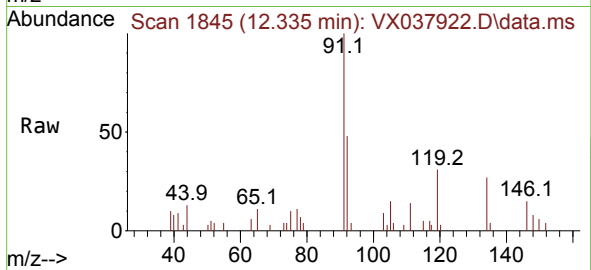
Acq: 27 Sep 2023 14:30

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 91	Resp:	3350
Ion Ratio	Lower	Upper
91	100	
92	33.8	27.4 82.0
134	74.1	12.6 37.8#



#90

Hexachloroethane

Concen: 0.302 ug/l

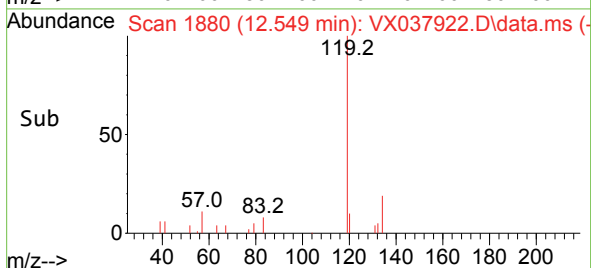
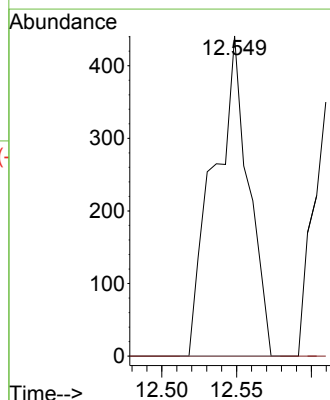
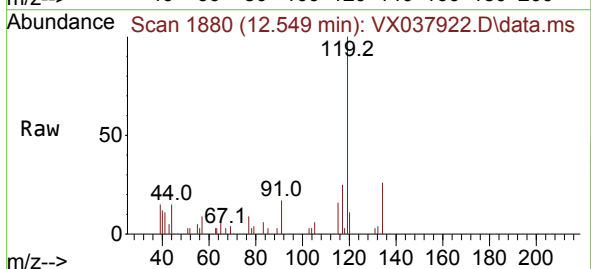
RT: 12.549 min Scan# 1880

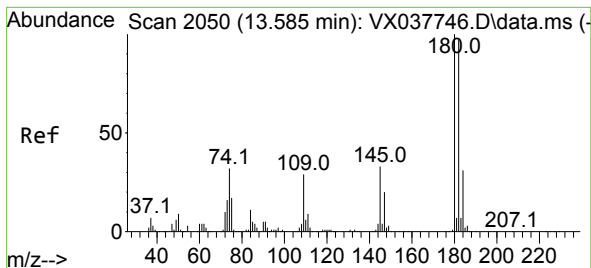
Delta R.T. 0.012 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

Tgt Ion: 117	Resp:	711
Ion Ratio	Lower	Upper
117	100	
201	0.0	32.9 98.6#





#93

1,2,4-Trichlorobenzene

Concen: 0.222 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX037922.D

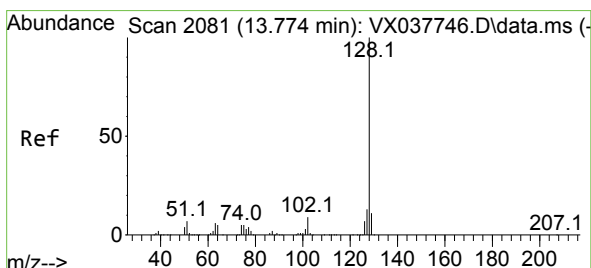
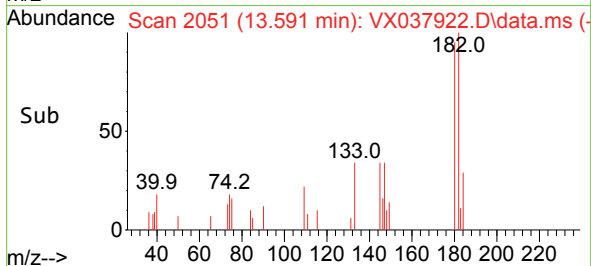
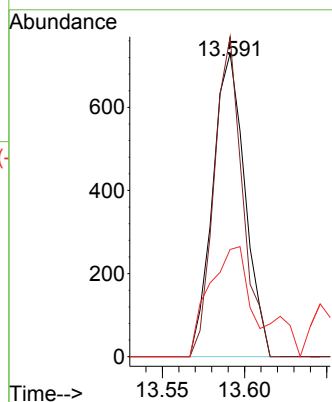
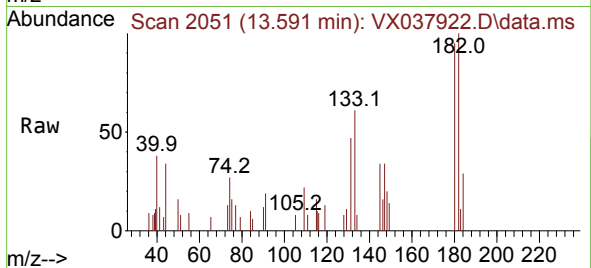
Acq: 27 Sep 2023 14:30

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:180	Resp:	990
Ion Ratio	Lower	Upper
180	100	
182	93.0	48.3 144.8
145	54.2	18.0 54.0#



#95

Naphthalene

Concen: 22.156 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.006 min

Lab File: VX037922.D

Acq: 27 Sep 2023 14:30

Tgt Ion:128	Resp:	334597
Ion Ratio	Lower	Upper
128	100	
127	12.9	10.3 15.5
129	10.9	8.8 13.2

