

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122823\
 Data File : VX039521.D
 Acq On : 28 Dec 2023 17:03
 Operator : JC/MD
 Sample : 06016-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MR-322-4-6

Quant Time: Dec 28 22:54:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121323W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 14 01:28:15 2023
 Response via : Initial Calibration

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

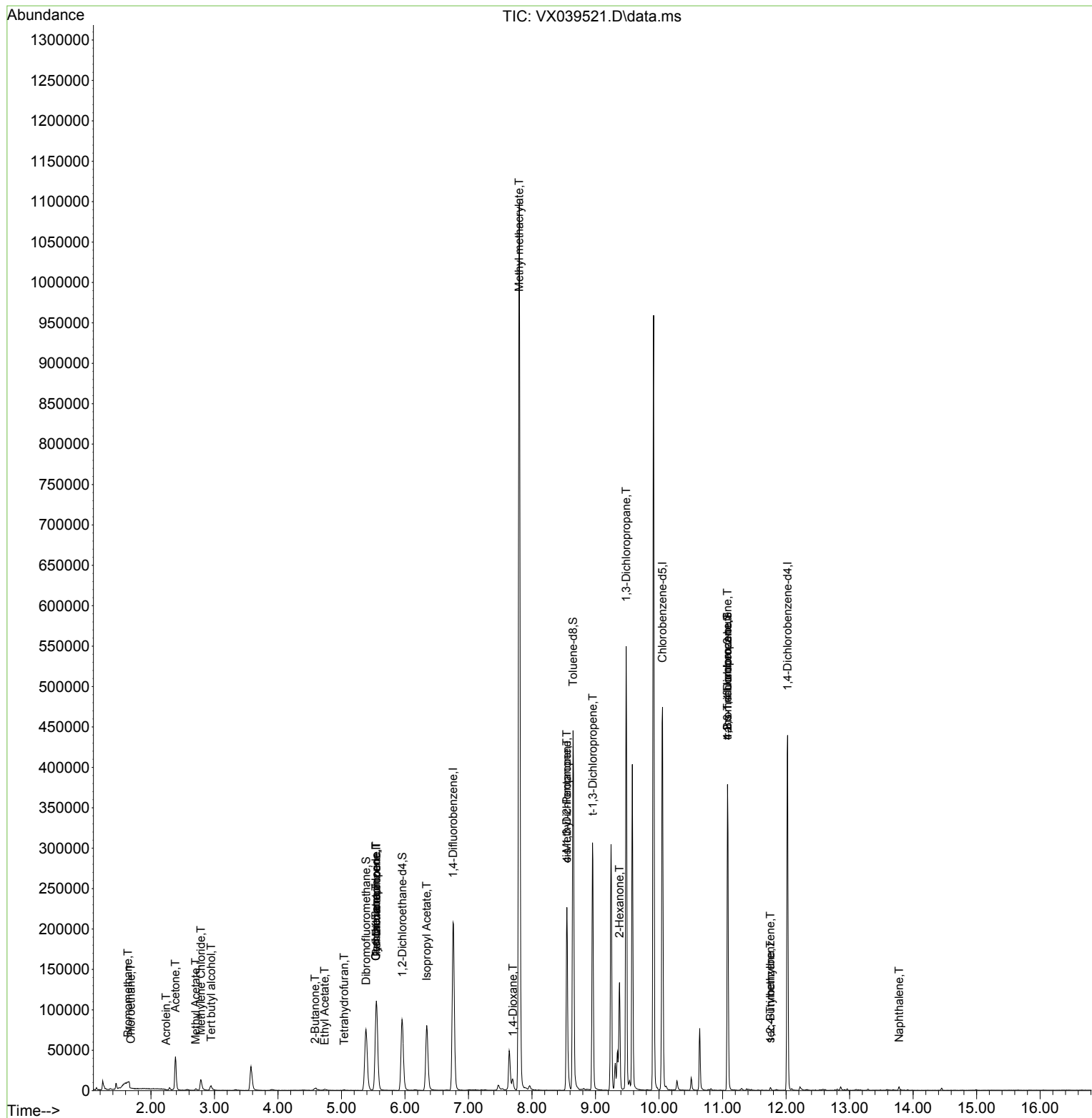
Internal Standards						
1) Pentafluorobenzene	5.550	168	95427	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	201470	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	202453	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	83149	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	85142	48.704	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	97.400%
35) Dibromofluoromethane	5.385	113	66042	47.449	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.900%
50) Toluene-d8	8.647	98	256398	49.619	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.240%
62) 4-Bromofluorobenzene	11.079	95	102331	47.998	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.000%
Target Compounds						
					Qvalue	
5) Bromomethane	1.636	94	240	0.302	ug/l #	44
6) Chloroethane	1.685	64	545	0.654	ug/l #	43
11) Tert butyl alcohol	2.946	59	4227	9.629	ug/l #	78
13) Acrolein	2.239	56	149	0.425	ug/l #	50
16) Acetone	2.386	43	44285	22.281	ug/l	95
18) Methyl Acetate	2.703	43	2556	0.676	ug/l #	87
20) Methylene Chloride	2.788	84	7164	4.916	ug/l	97
25) 2-Butanone	4.586	43	5278	3.499	ug/l	97
29) Tetrahydrofuran	5.044	42	497	0.597	ug/l #	52
31) Cyclohexane	5.544	56	2739	1.213	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	9631	4.385	ug/l #	50
37) Ethyl Acetate	4.733	43	3395	1.251	ug/l #	74
38) Carbon Tetrachloride	5.544	117	11085	5.289	ug/l #	15
43) Isopropyl Acetate	6.342	43	113521	25.727	ug/l	99
48) Methyl methacrylate	7.799	41	98315	38.111	ug/l #	49
49) 1,4-Dioxane	7.702	88	22	0.633	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	84334	29.996	ug/l #	47
53) t-1,3-Dichloropropene	8.958	75	595	0.241	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	33582	12.649	ug/l #	61
57) 1,3-Dichloropropane	9.482	76	4350	1.607	ug/l #	42
59) 2-Hexanone	9.378	43	103396	42.613	ug/l #	26
76) 1,2,3-Trichloropropane	11.079	75	56278	26.161	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	56278	73.800	ug/l #	5
84) 1,2,4-Trimethylbenzene	11.756	105	1764	0.315	ug/l	99
85) sec-Butylbenzene	11.756	105	1764	0.267	ug/l #	57
95) Naphthalene	13.780	128	2727	0.448	ug/l	96

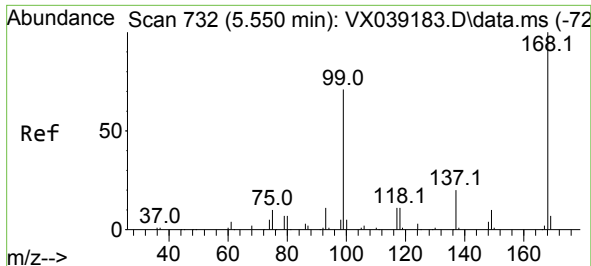
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122823\
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Quant Title : SW846 8260
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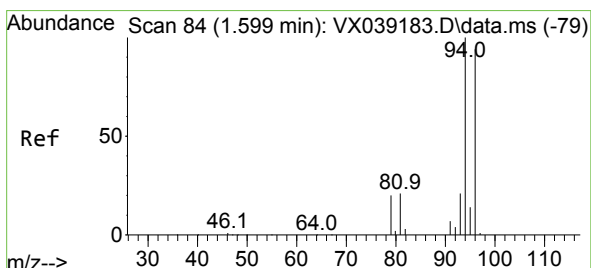
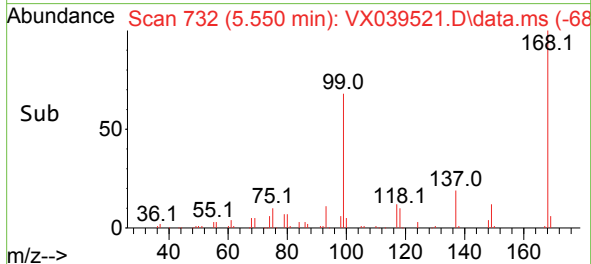
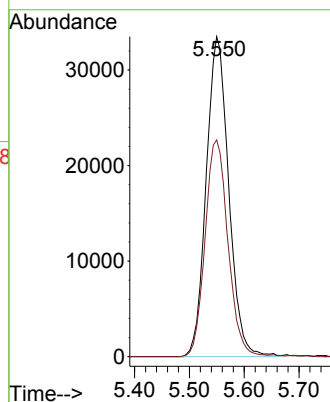
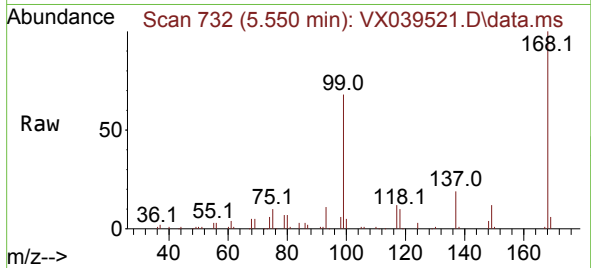




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

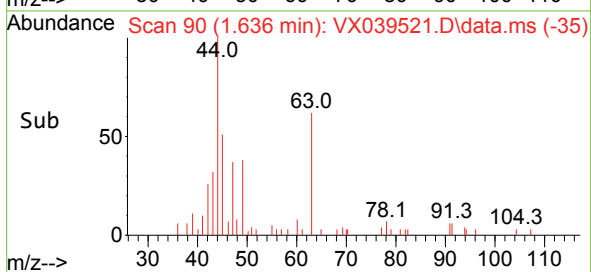
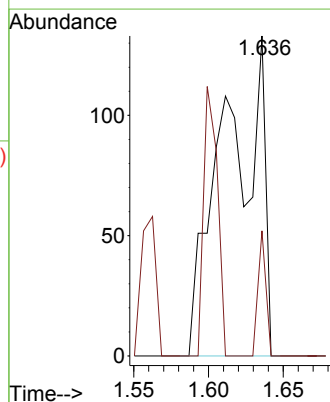
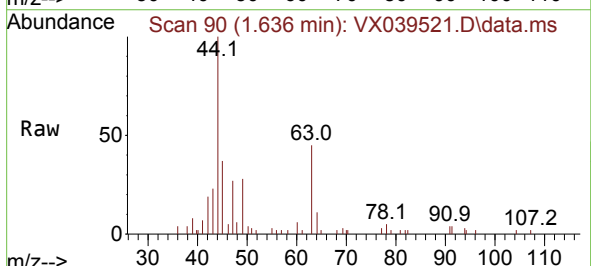
Instrument :
MSVOA_X
ClientSampleId :
MR-322-4-6

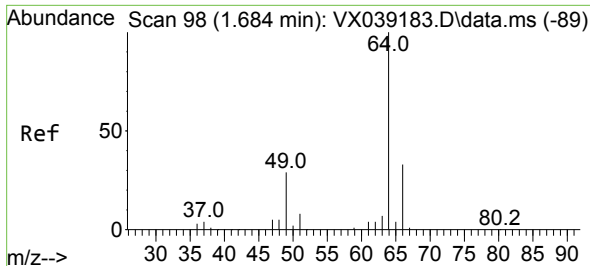
Tgt Ion:168 Resp: 95427
Ion Ratio Lower Upper
168 100
99 67.7 56.6 85.0



#5
Bromomethane
Concen: 0.302 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.037 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Tgt Ion: 94 Resp: 240
Ion Ratio Lower Upper
94 100
96 39.1 74.6 111.8#

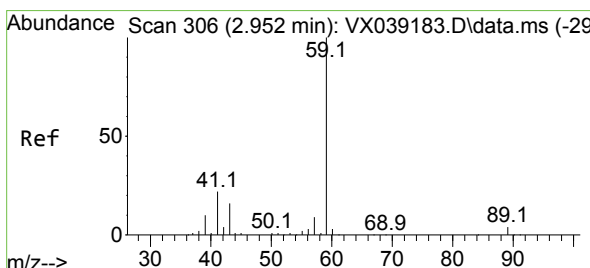
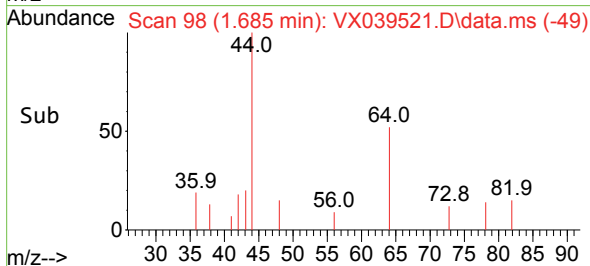
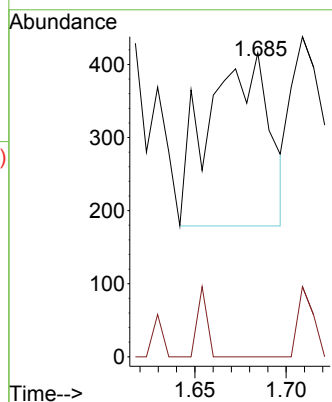
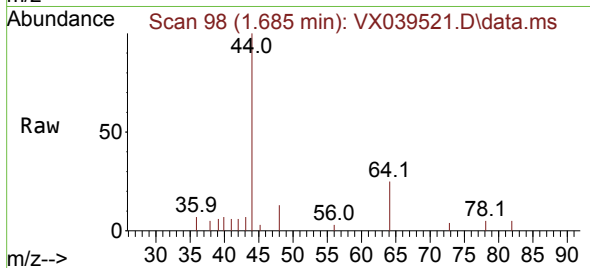




#6
Chloroethane
Concen: 0.654 ug/l
RT: 1.685 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

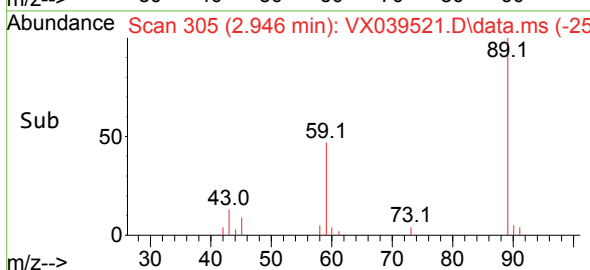
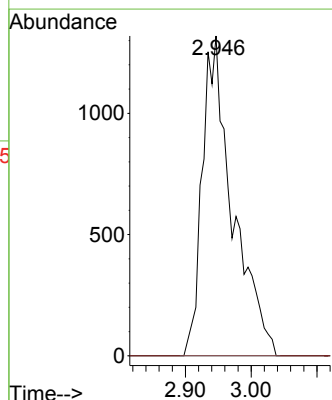
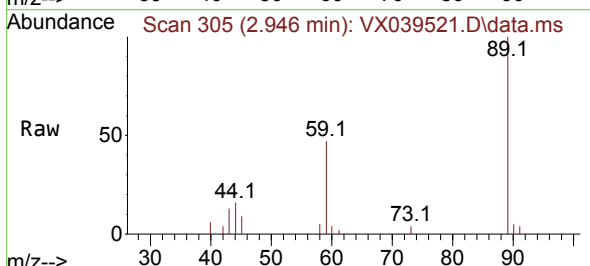
Instrument :
MSVOA_X
ClientSampleId :
MR-322-4-6

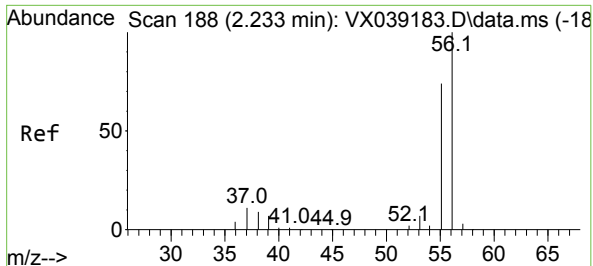
Tgt Ion: 64 Resp: 545
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#



#11
Tert butyl alcohol
Concen: 9.629 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.006 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Tgt Ion: 59 Resp: 4227
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.425 ug/l

RT: 2.239 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX039521.D

Acq: 28 Dec 2023 17:03

Instrument :

MSVOA_X

ClientSampleId :

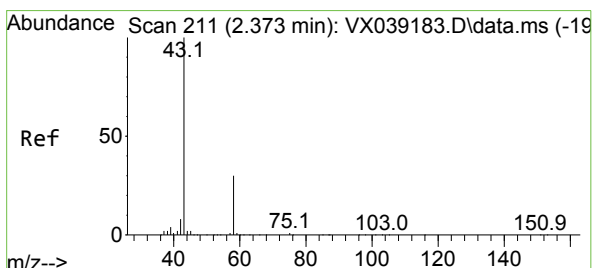
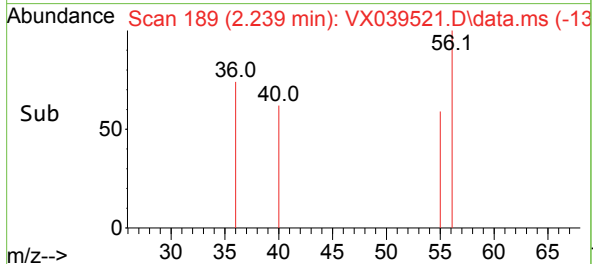
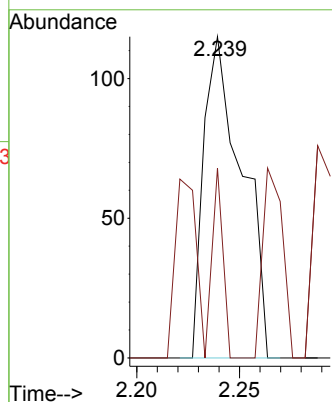
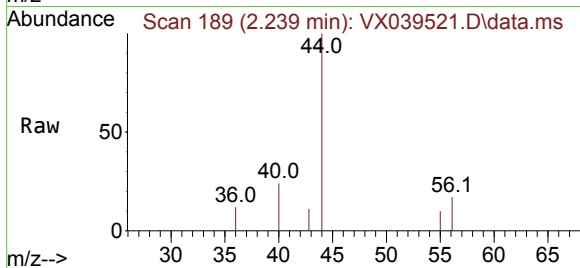
MR-322-4-6

Tgt Ion: 56 Resp: 149

Ion Ratio Lower Upper

56 100

55 30.2 57.1 85.7#



#16

Acetone

Concen: 22.281 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.013 min

Lab File: VX039521.D

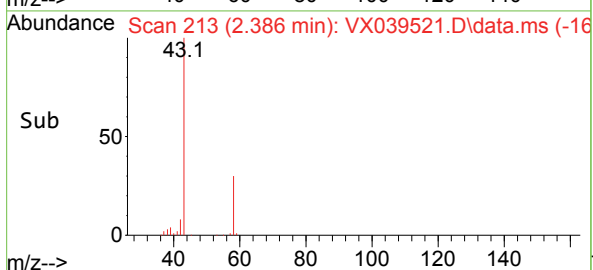
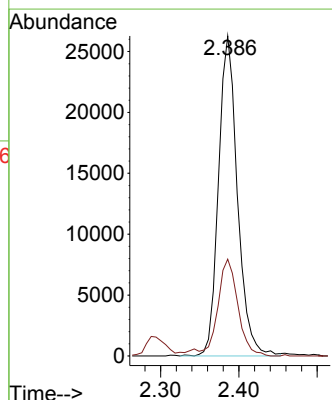
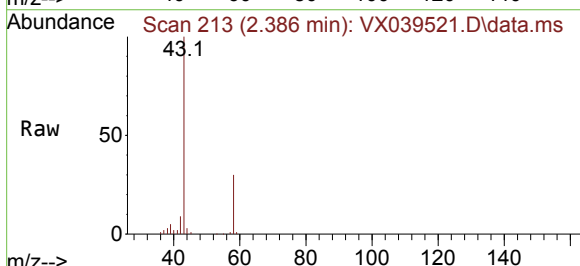
Acq: 28 Dec 2023 17:03

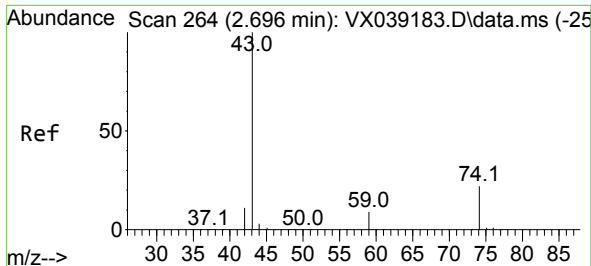
Tgt Ion: 43 Resp: 44285

Ion Ratio Lower Upper

43 100

58 30.2 21.9 32.9





#18

Methyl Acetate

Concen: 0.676 ug/l

RT: 2.703 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX039521.D

Acq: 28 Dec 2023 17:03

Instrument :

MSVOA_X

ClientSampleId :

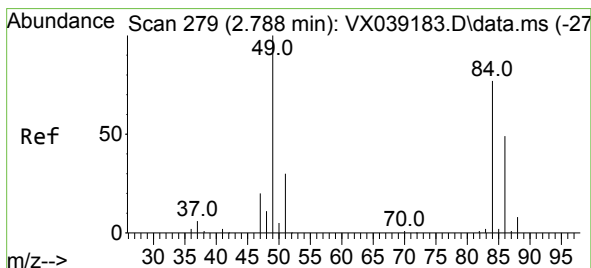
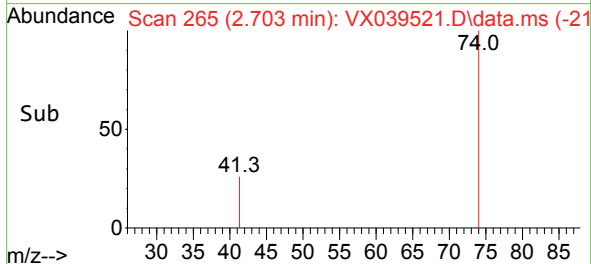
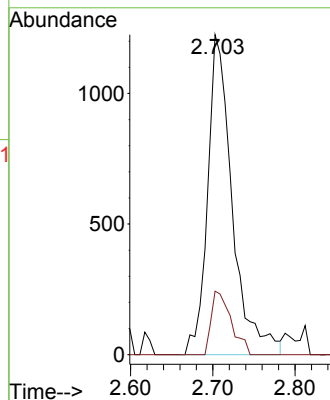
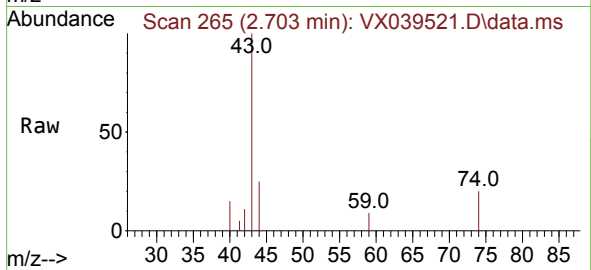
MR-322-4-6

Tgt Ion: 43 Resp: 2556

Ion Ratio Lower Upper

43 100

74 15.9 17.8 26.8#



#20

Methylene Chloride

Concen: 4.916 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX039521.D

Acq: 28 Dec 2023 17:03

Tgt Ion: 84 Resp: 7164

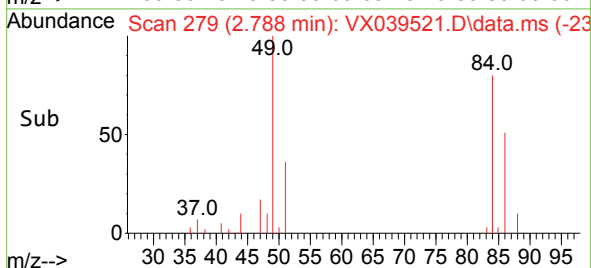
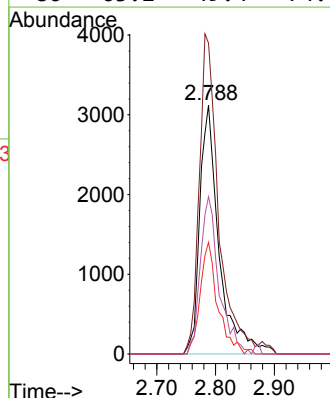
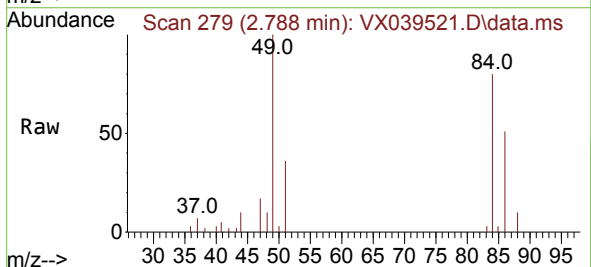
Ion Ratio Lower Upper

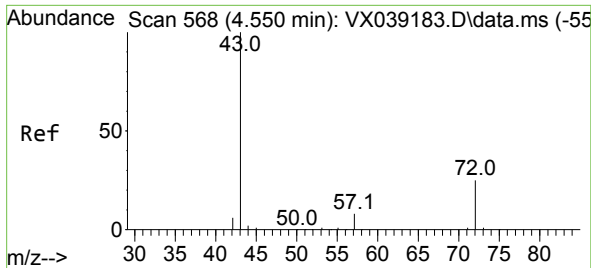
84 100

49 124.9 103.6 155.4

51 44.9 33.8 50.6

86 63.2 49.4 74.0

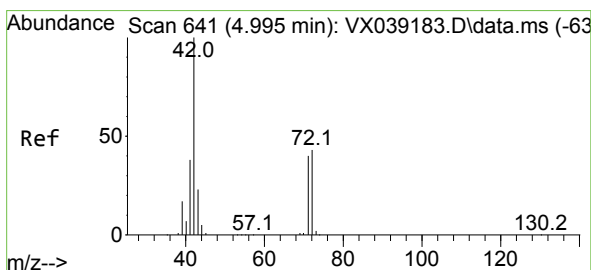
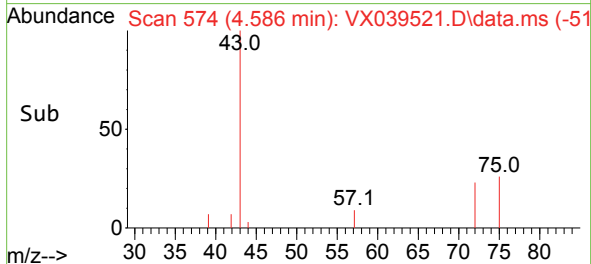
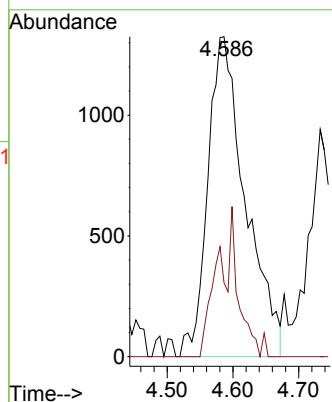
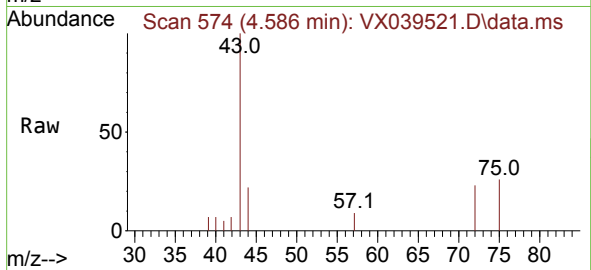




#25
2-Butanone
Concen: 3.499 ug/l
RT: 4.586 min Scan# 51
Delta R.T. 0.037 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

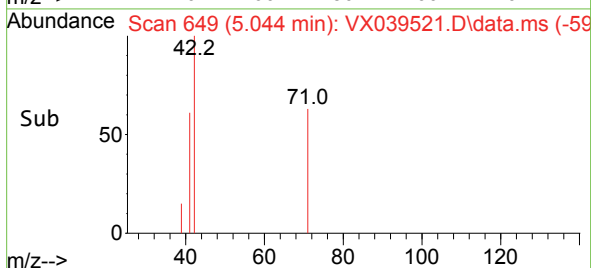
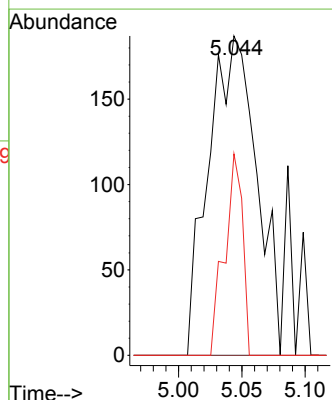
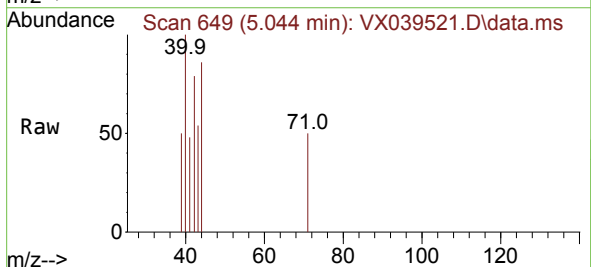
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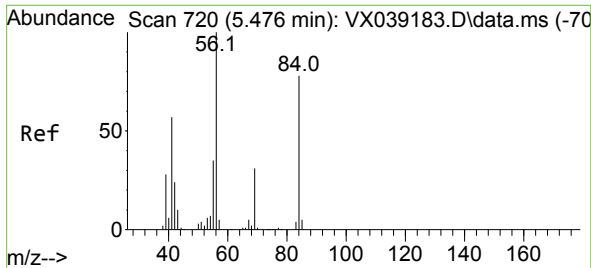
Tgt Ion: 43 Resp: 5278
Ion Ratio Lower Upper
43 100
72 23.0 19.4 29.2



#29
Tetrahydrofuran
Concen: 0.597 ug/l
RT: 5.044 min Scan# 649
Delta R.T. 0.049 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

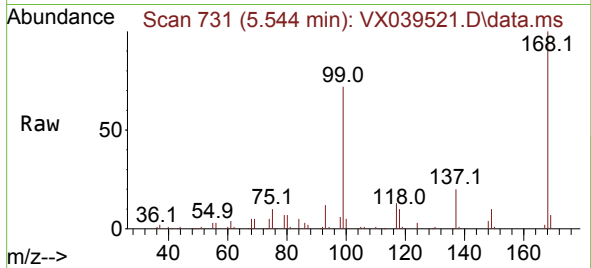
Tgt Ion: 42 Resp: 497
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.4#
71 23.5 32.2 48.2#



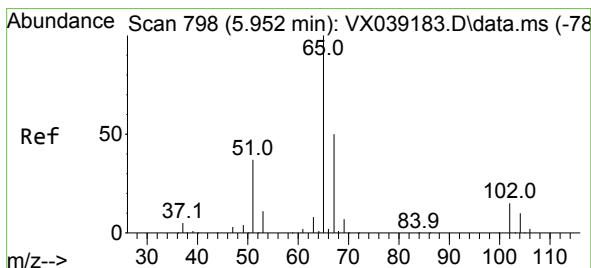
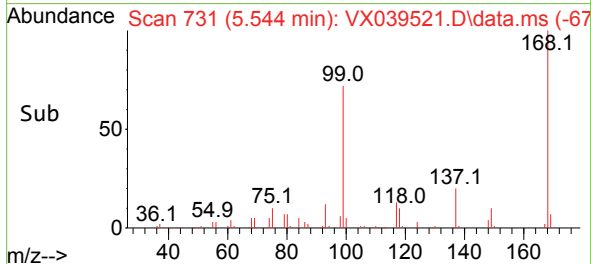
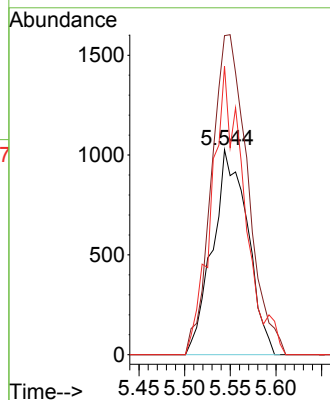


#31
Cyclohexane
Concen: 1.213 ug/l
RT: 5.544 min Scan# 713
Delta R.T. 0.067 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Instrument :
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ClientSampleId :
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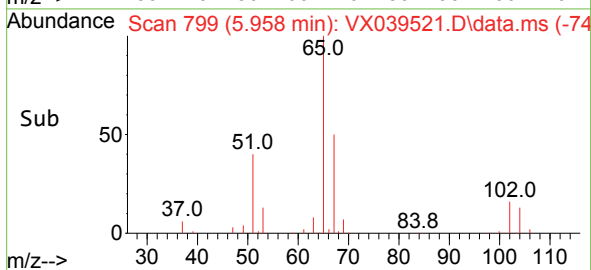
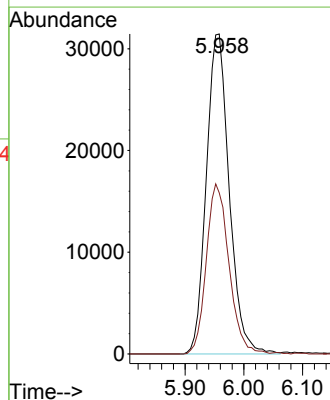
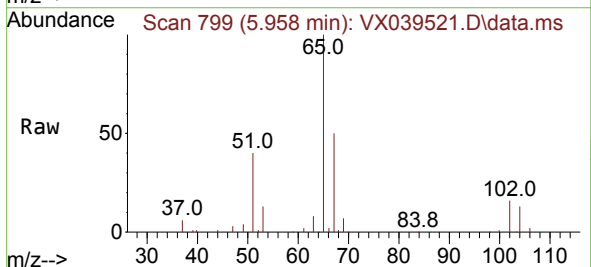


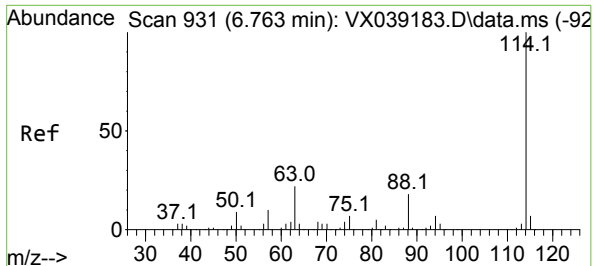
Tgt Ion: 56 Resp: 2739
Ion Ratio Lower Upper
56 100
69 155.6 23.4 35.2#
84 140.7 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 48.704 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Tgt Ion: 65 Resp: 85142
Ion Ratio Lower Upper
65 100
67 52.7 0.0 100.2

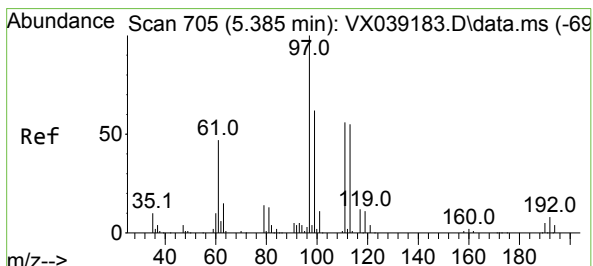
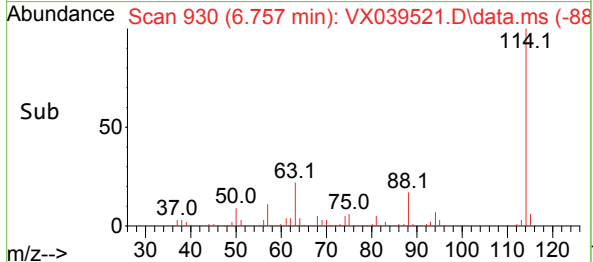
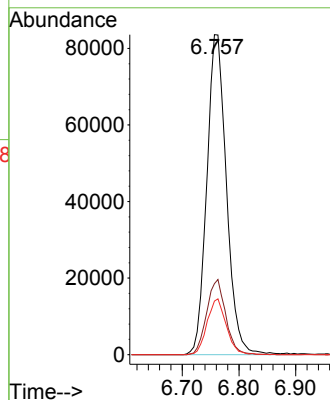
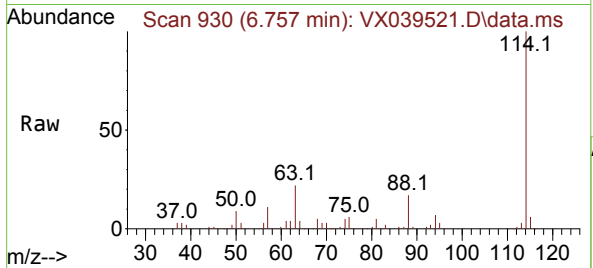




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

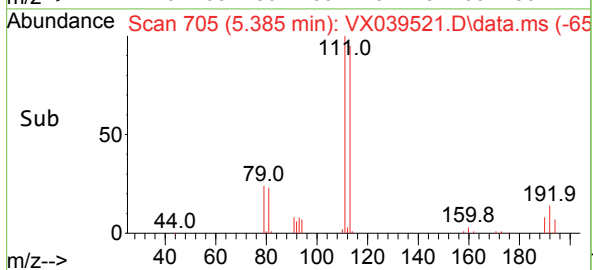
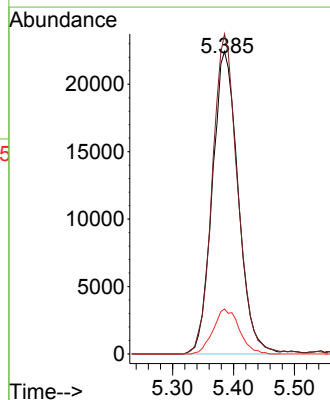
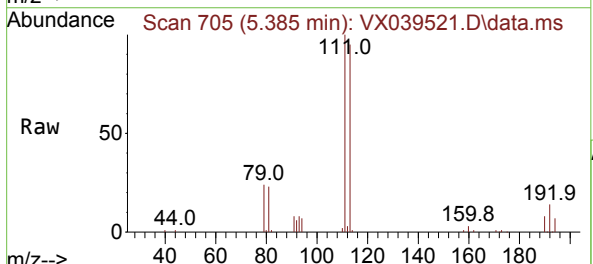
Instrument :
MSVOA_X
ClientSampleId :
MR-322-4-6

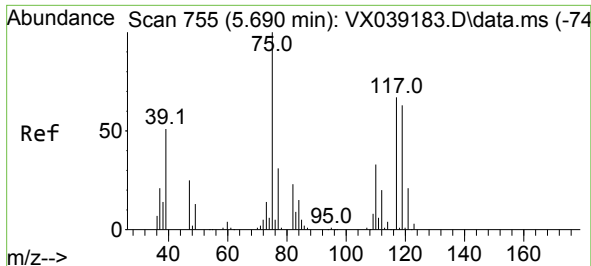
Tgt Ion:114 Resp: 201470
Ion Ratio Lower Upper
114 100
63 22.2 0.0 45.0
88 16.8 0.0 36.6



#35
Dibromofluoromethane
Concen: 47.449 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Tgt Ion:113 Resp: 66042
Ion Ratio Lower Upper
113 100
111 103.8 82.9 124.3
192 15.0 13.3 19.9

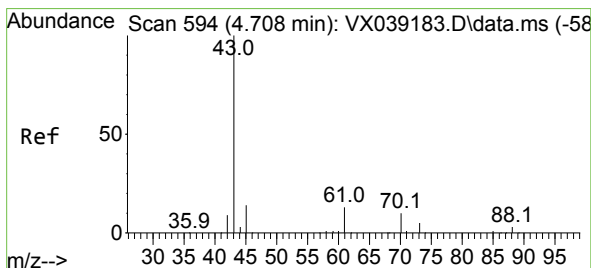
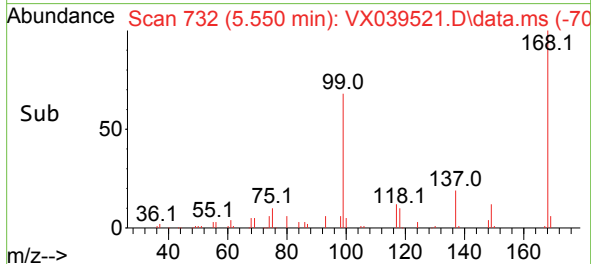
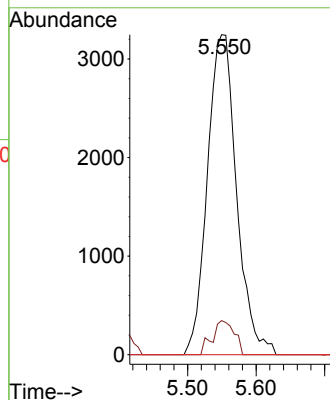
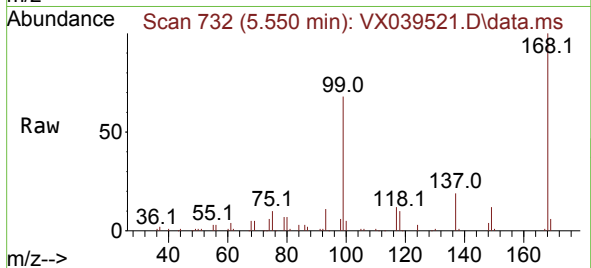




#36
1,1-Dichloropropene
Concen: 4.385 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

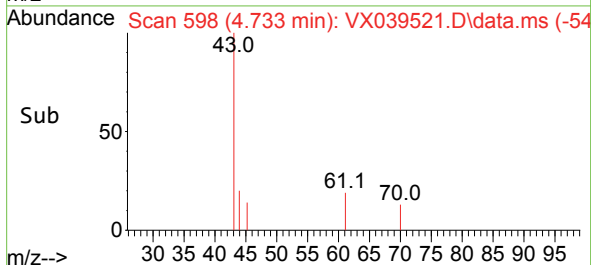
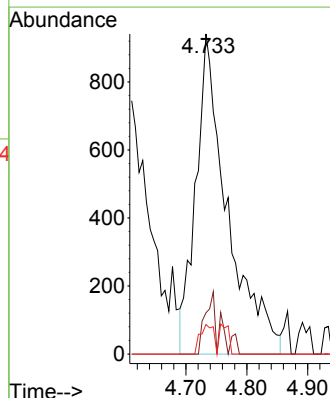
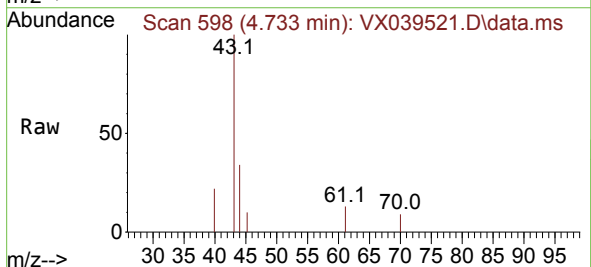
Instrument :
MSVOA_X
ClientSampleId :
MR-322-4-6

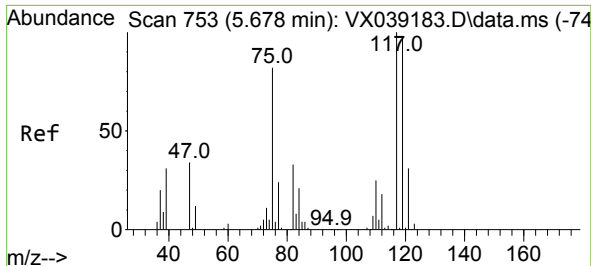
Tgt Ion: 75 Resp: 9631
Ion Ratio Lower Upper
75 100
110 8.0 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 1.251 ug/l
RT: 4.733 min Scan# 598
Delta R.T. 0.025 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

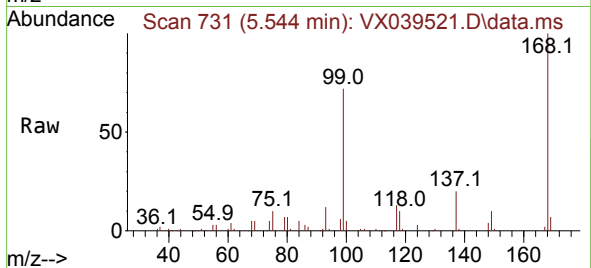
Tgt Ion: 43 Resp: 3395
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 3.9 8.3 12.5#



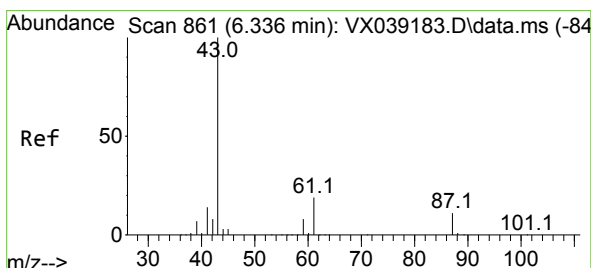
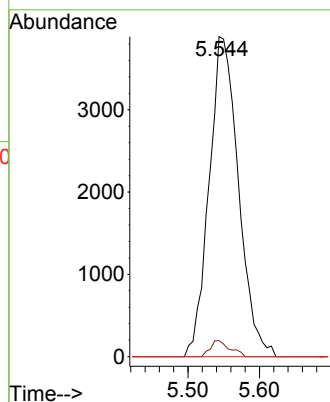
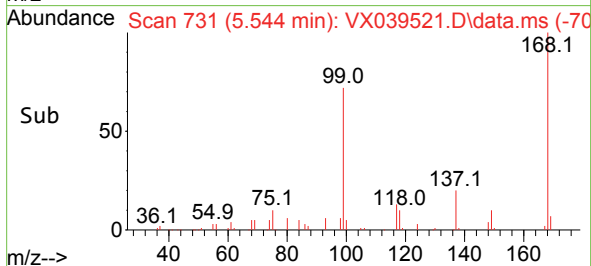


#38
Carbon Tetrachloride
Concen: 5.289 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Instrument :
MSVOA_X
ClientSampleId :
MR-322-4-6

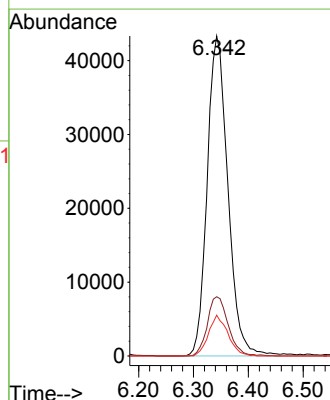
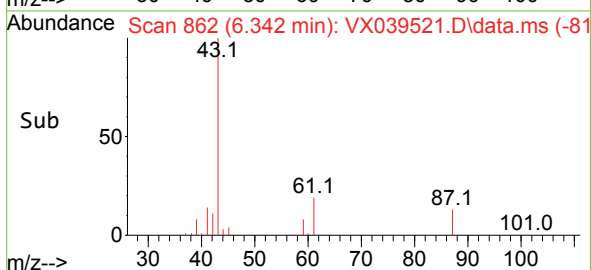
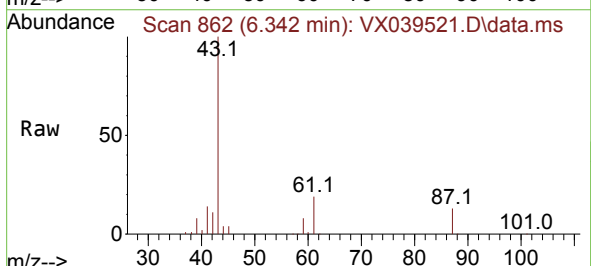


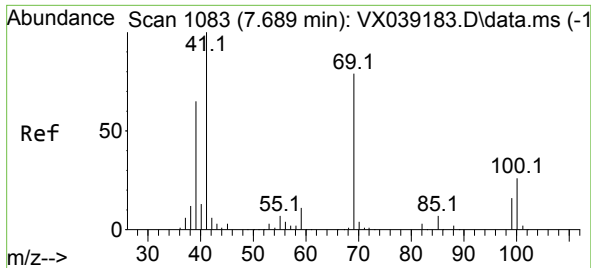
Tgt Ion:117 Resp: 11085
Ion Ratio Lower Upper
117 100
119 5.0 78.2 117.2#
121 0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 25.727 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Tgt Ion: 43 Resp: 113521
Ion Ratio Lower Upper
43 100
61 18.7 15.2 22.8
87 11.9 9.8 14.6

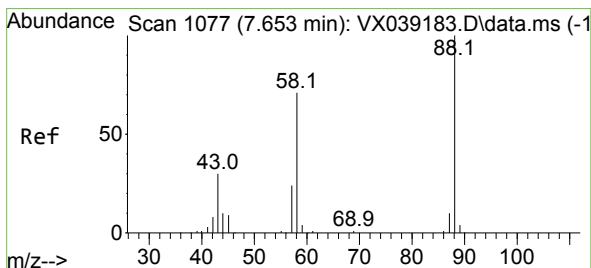
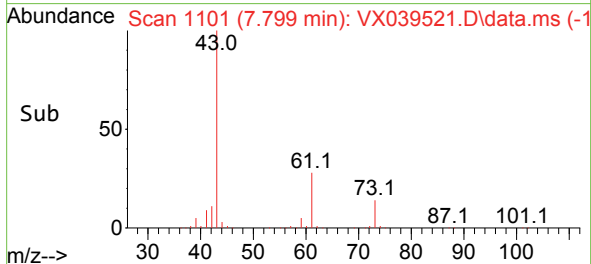
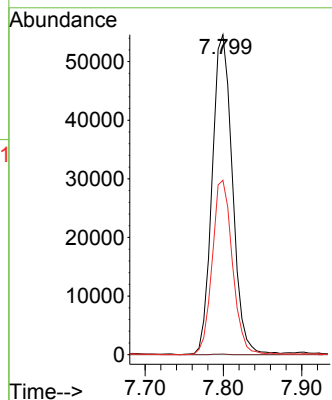
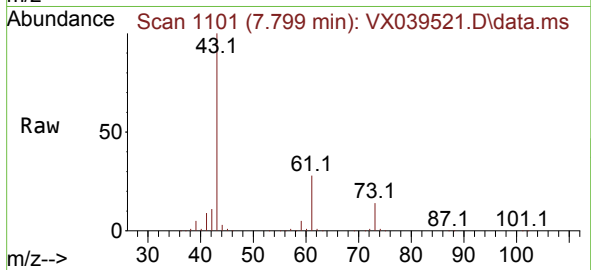




#48
Methyl methacrylate
Concen: 38.111 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.110 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

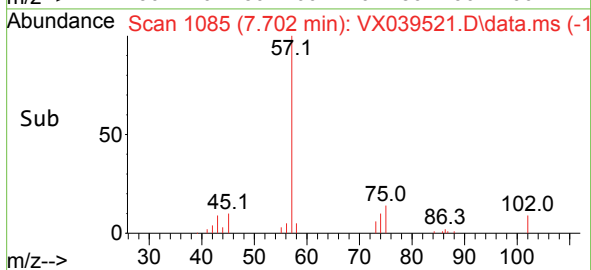
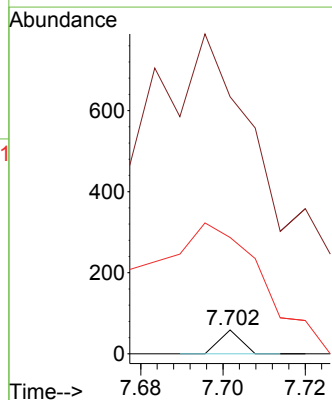
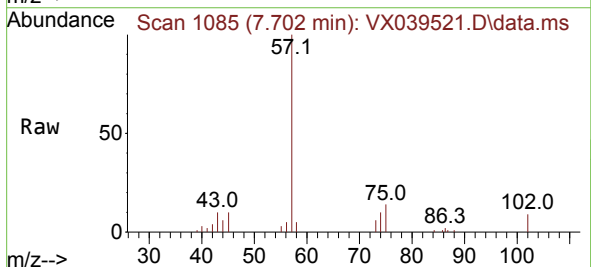
Instrument :
MSVOA_X
ClientSampleId :
MR-322-4-6

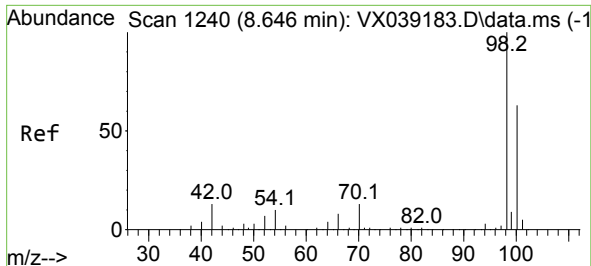
Tgt Ion: 41 Resp: 98315
Ion Ratio Lower Upper
41 100
69 0.1 59.2 88.8#
39 54.6 47.7 71.5



#49
1,4-Dioxane
Concen: 0.633 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.049 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 2100.0 60.1 90.1#

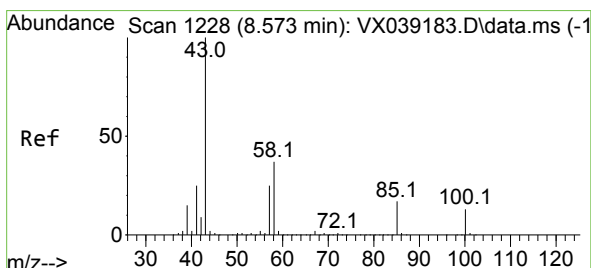
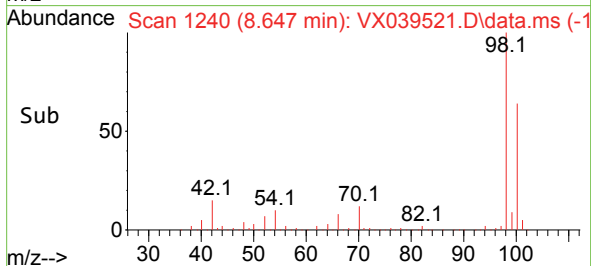
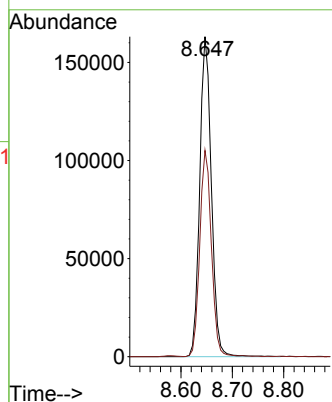
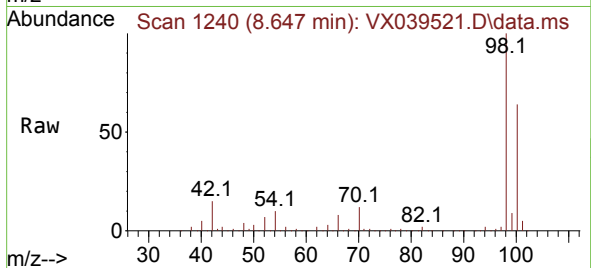




#50
Toluene-d8
Concen: 49.619 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

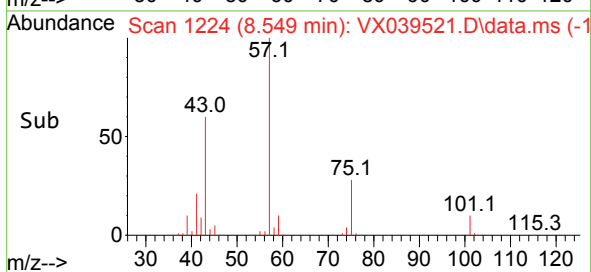
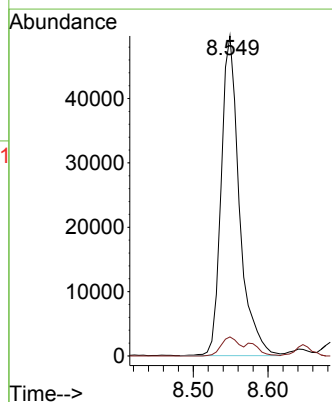
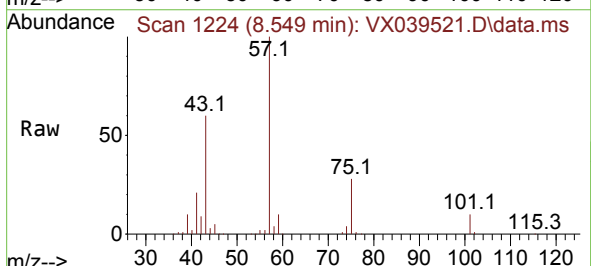
Instrument :
MSVOA_X
ClientSampleId :
MR-322-4-6

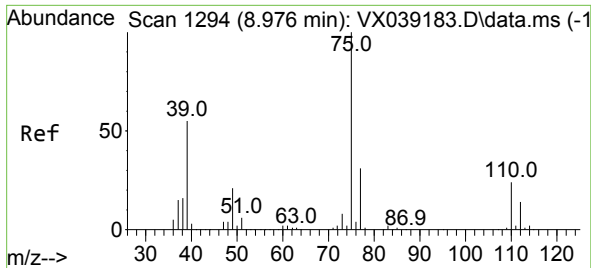
Tgt Ion: 98 Resp: 256398
Ion Ratio Lower Upper
98 100
100 64.5 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 29.996 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Tgt Ion: 43 Resp: 84334
Ion Ratio Lower Upper
43 100
58 6.0 30.4 45.6#

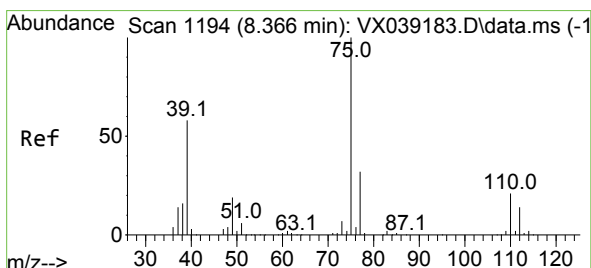
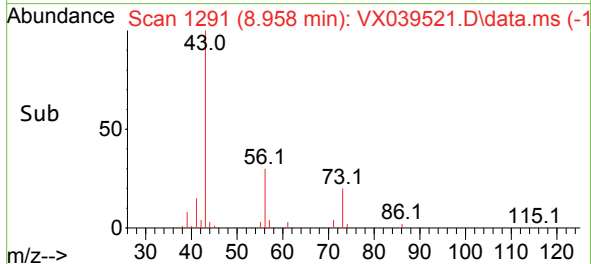
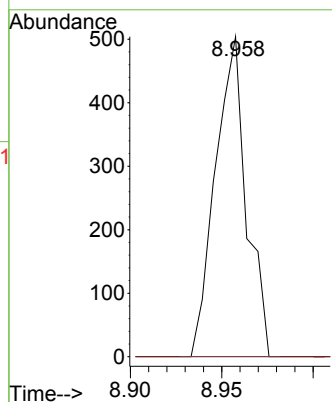
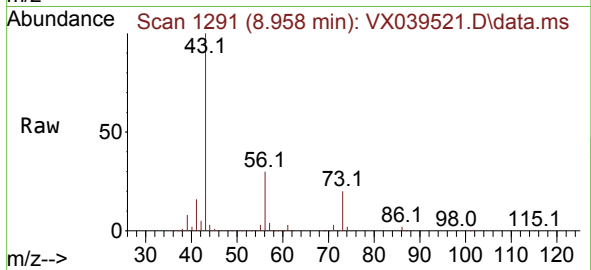




#53
 t-1,3-Dichloropropene
 Concen: 0.241 ug/l
 RT: 8.958 min Scan# 1124
 Delta R.T. -0.018 min
 Lab File: VX039521.D
 Acq: 28 Dec 2023 17:03

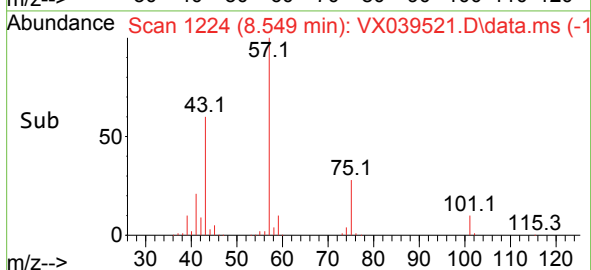
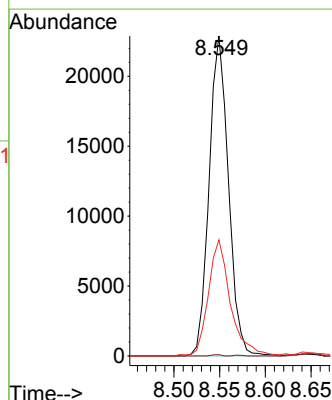
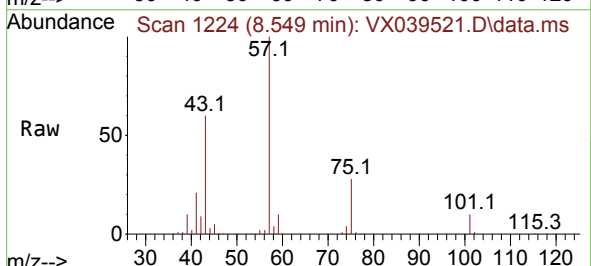
Instrument :
 MSVOA_X
 ClientSampleId :
 MR-322-4-6

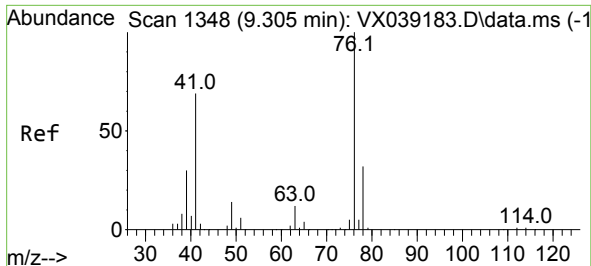
Tgt Ion: 75 Resp: 595
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#



#54
 cis-1,3-Dichloropropene
 Concen: 12.649 ug/l
 RT: 8.549 min Scan# 1224
 Delta R.T. 0.183 min
 Lab File: VX039521.D
 Acq: 28 Dec 2023 17:03

Tgt Ion: 75 Resp: 33582
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.3 37.9#
 39 35.9 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.607 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX039521.D

Acq: 28 Dec 2023 17:03

Instrument :

MSVOA_X

ClientSampleId :

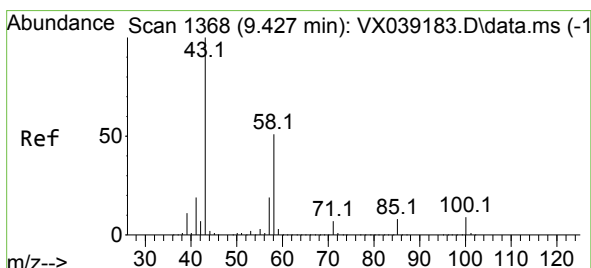
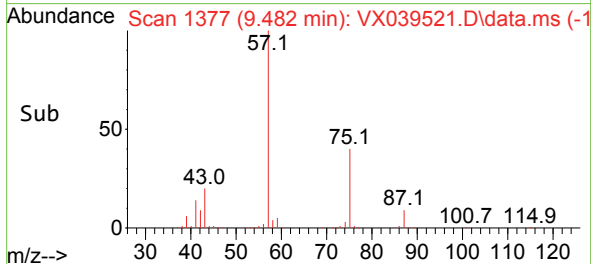
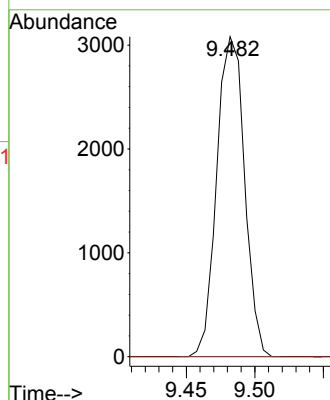
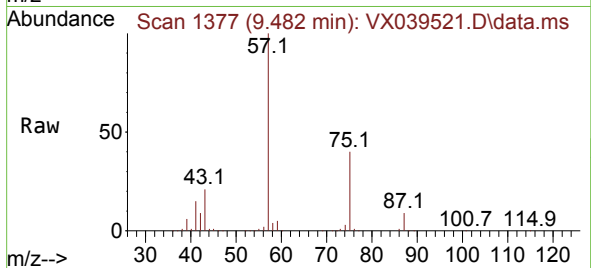
MR-322-4-6

Tgt Ion: 76 Resp: 4350

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 42.613 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX039521.D

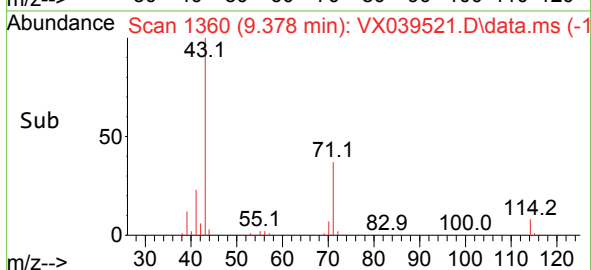
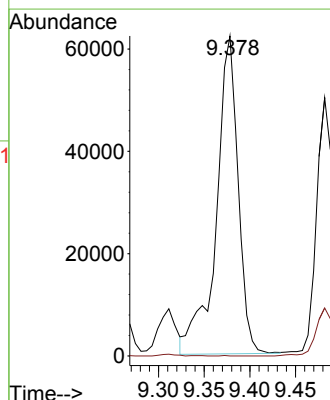
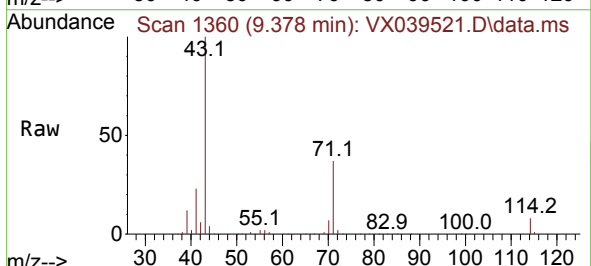
Acq: 28 Dec 2023 17:03

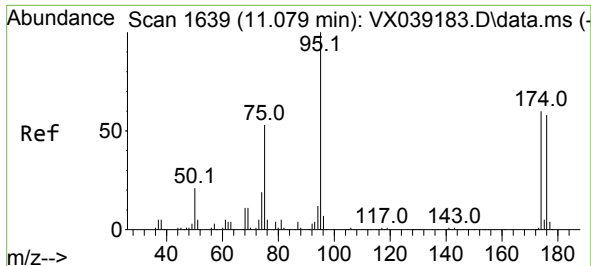
Tgt Ion: 43 Resp: 103396

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#





#62

4-Bromofluorobenzene

Concen: 47.998 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX039521.D

Acq: 28 Dec 2023 17:03

Instrument :

MSVOA_X

ClientSampleId :

MR-322-4-6

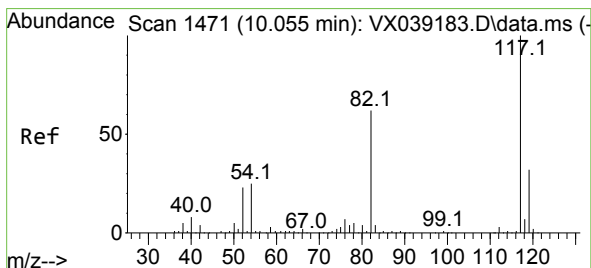
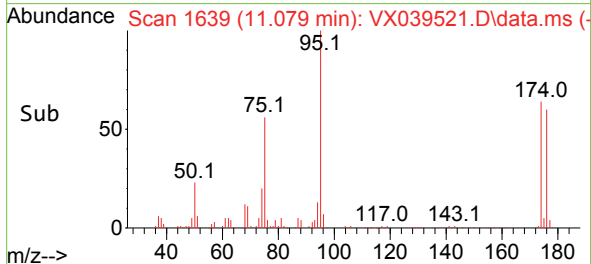
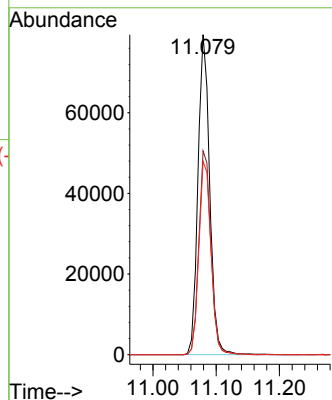
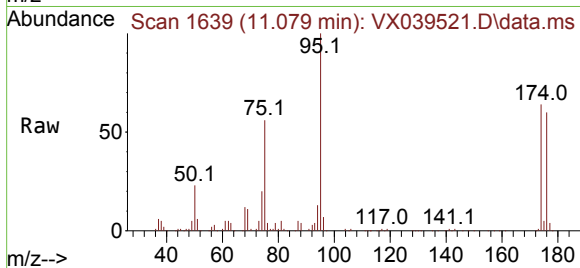
Tgt Ion: 95 Resp: 102331

Ion Ratio Lower Upper

95 100

174 65.3 0.0 135.6

176 62.5 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: VX039521.D

Acq: 28 Dec 2023 17:03

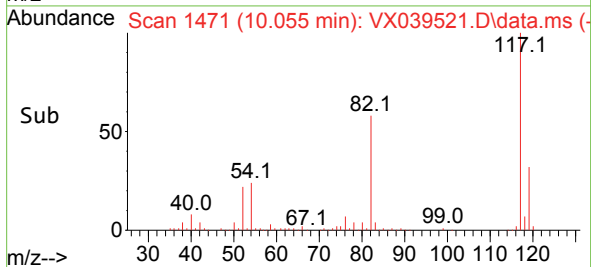
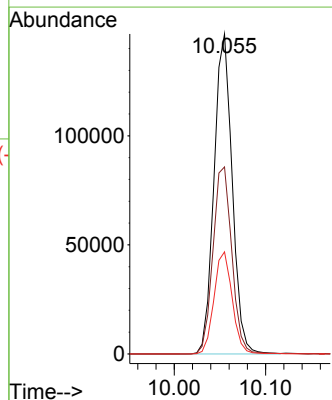
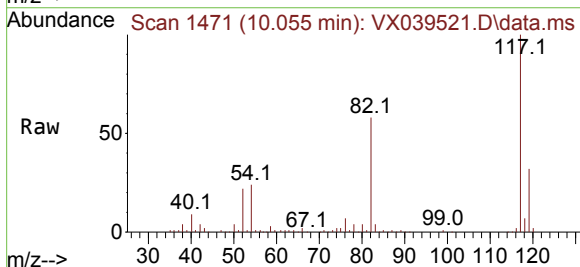
Tgt Ion: 117 Resp: 202453

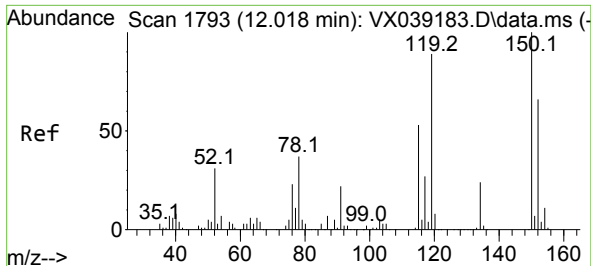
Ion Ratio Lower Upper

117 100

82 58.5 46.2 69.4

119 31.9 25.5 38.3

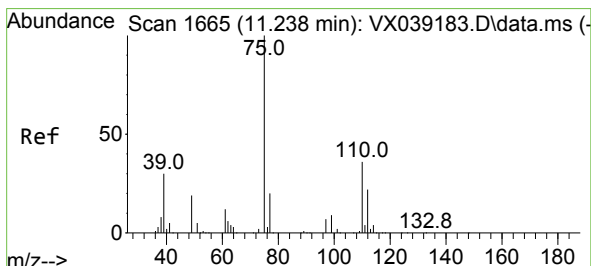
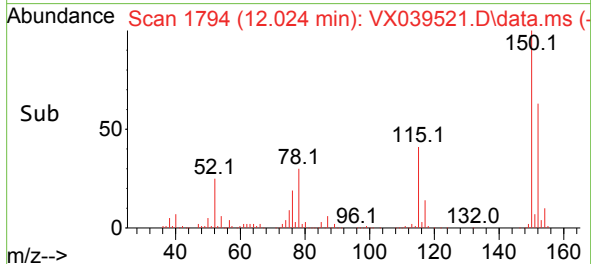
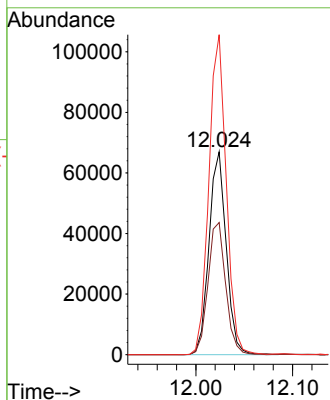
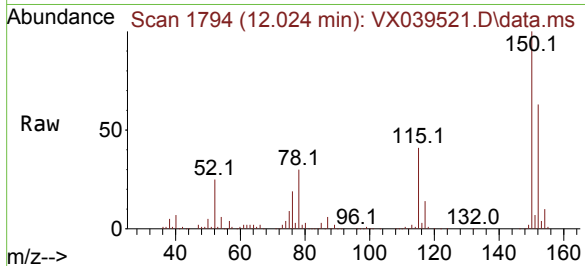




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 1
 Delta R.T. 0.006 min
 Lab File: VX039521.D
 Acq: 28 Dec 2023 17:03

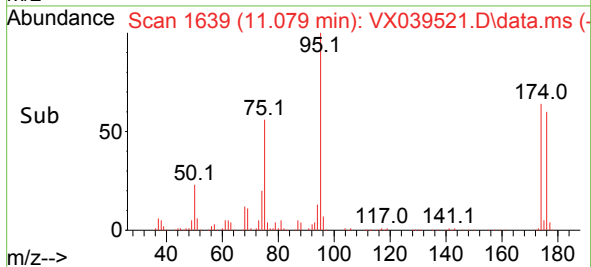
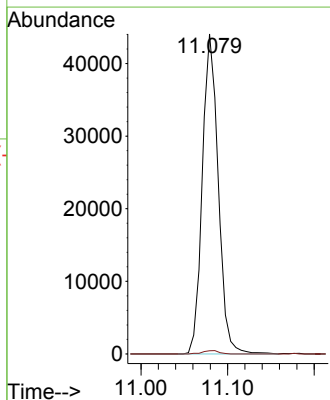
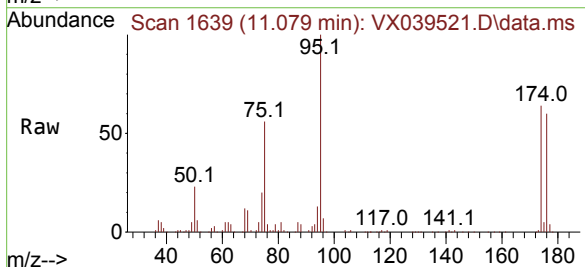
Instrument :
 MSVOA_X
 ClientSampleId :
 MR-322-4-6

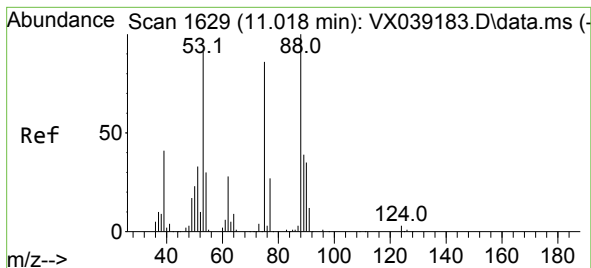
Tgt Ion:152 Resp: 83149
 Ion Ratio Lower Upper
 152 100
 115 67.1 43.3 129.9
 150 158.6 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 26.161 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX039521.D
 Acq: 28 Dec 2023 17:03

Tgt Ion: 75 Resp: 56278
 Ion Ratio Lower Upper
 75 100
 77 1.1 19.1 57.5#

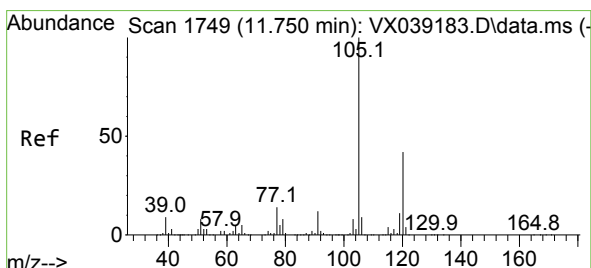
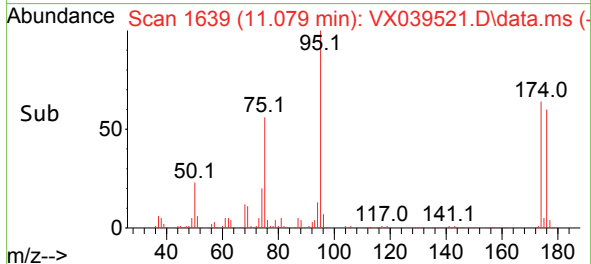
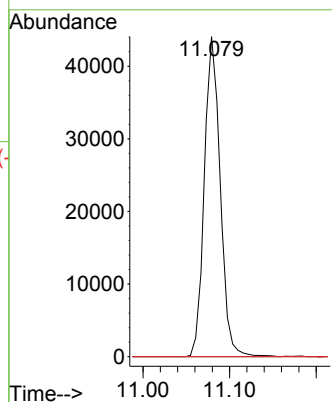
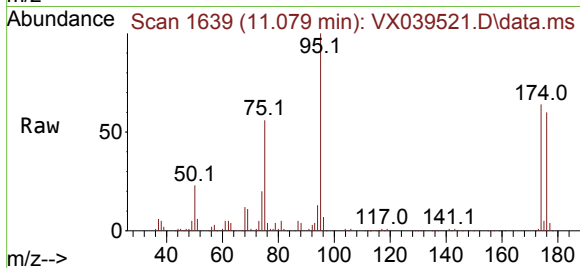




#81
trans-1,4-Dichloro-2-butene
Concen: 73.800 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

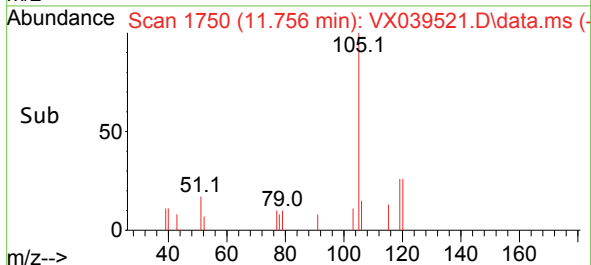
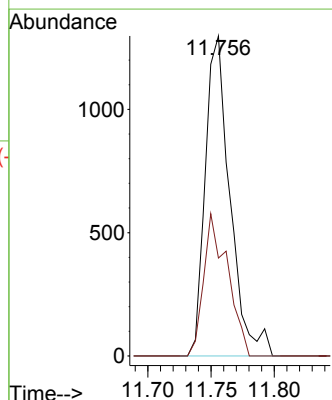
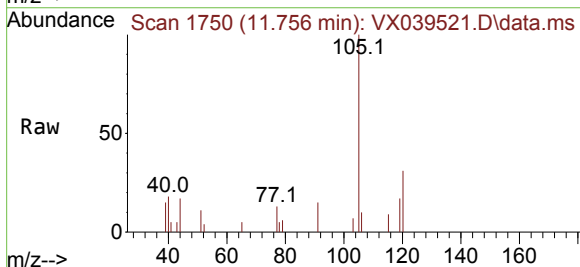
Instrument :
MSVOA_X
ClientSampleId :
MR-322-4-6

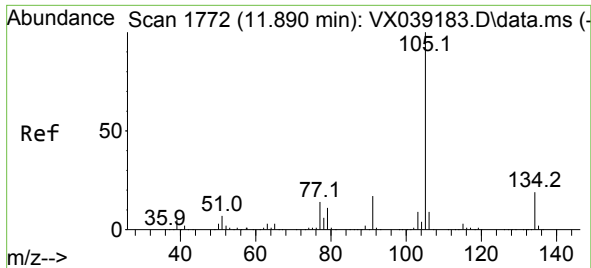
Tgt Ion: 75 Resp: 56278
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.315 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX039521.D
Acq: 28 Dec 2023 17:03

Tgt Ion: 105 Resp: 1764
Ion Ratio Lower Upper
105 100
120 43.0 21.2 63.6

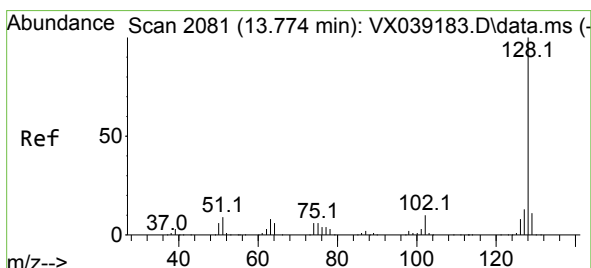
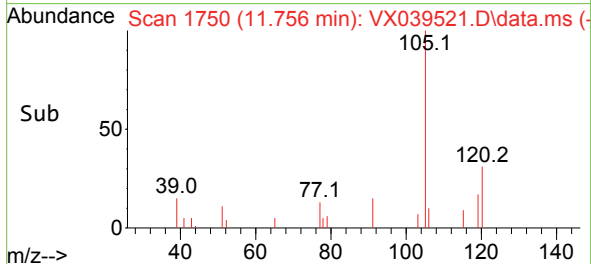
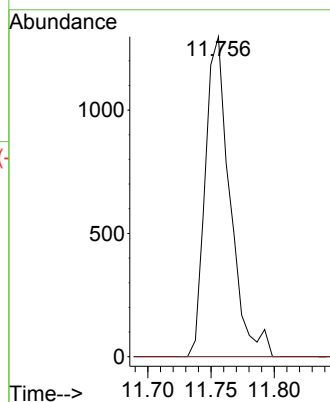
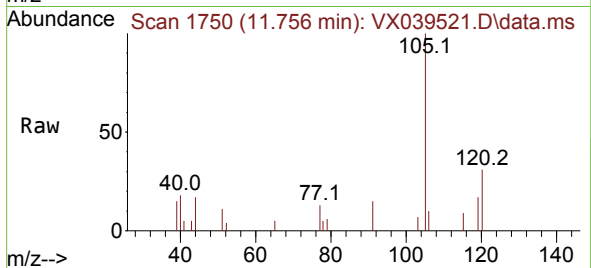




#85
 sec-Butylbenzene
 Concen: 0.267 ug/l
 RT: 11.756 min Scan# 11
 Delta R.T. -0.134 min
 Lab File: VX039521.D
 Acq: 28 Dec 2023 17:03

Instrument :
 MSVOA_X
 ClientSampleId :
 MR-322-4-6

Tgt Ion:105 Resp: 1764
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.4#



#95
 Naphthalene
 Concen: 0.448 ug/l
 RT: 13.780 min Scan# 2082
 Delta R.T. 0.006 min
 Lab File: VX039521.D
 Acq: 28 Dec 2023 17:03

Tgt Ion:128 Resp: 2727
 Ion Ratio Lower Upper
 128 100
 127 14.7 10.3 15.5
 129 9.9 8.8 13.2

