

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122923\
 Data File : VX039542.D
 Acq On : 29 Dec 2023 13:59
 Operator : JC/MD
 Sample : 06031-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MR-321-0-2

Quant Time: Dec 30 02:00:25 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)

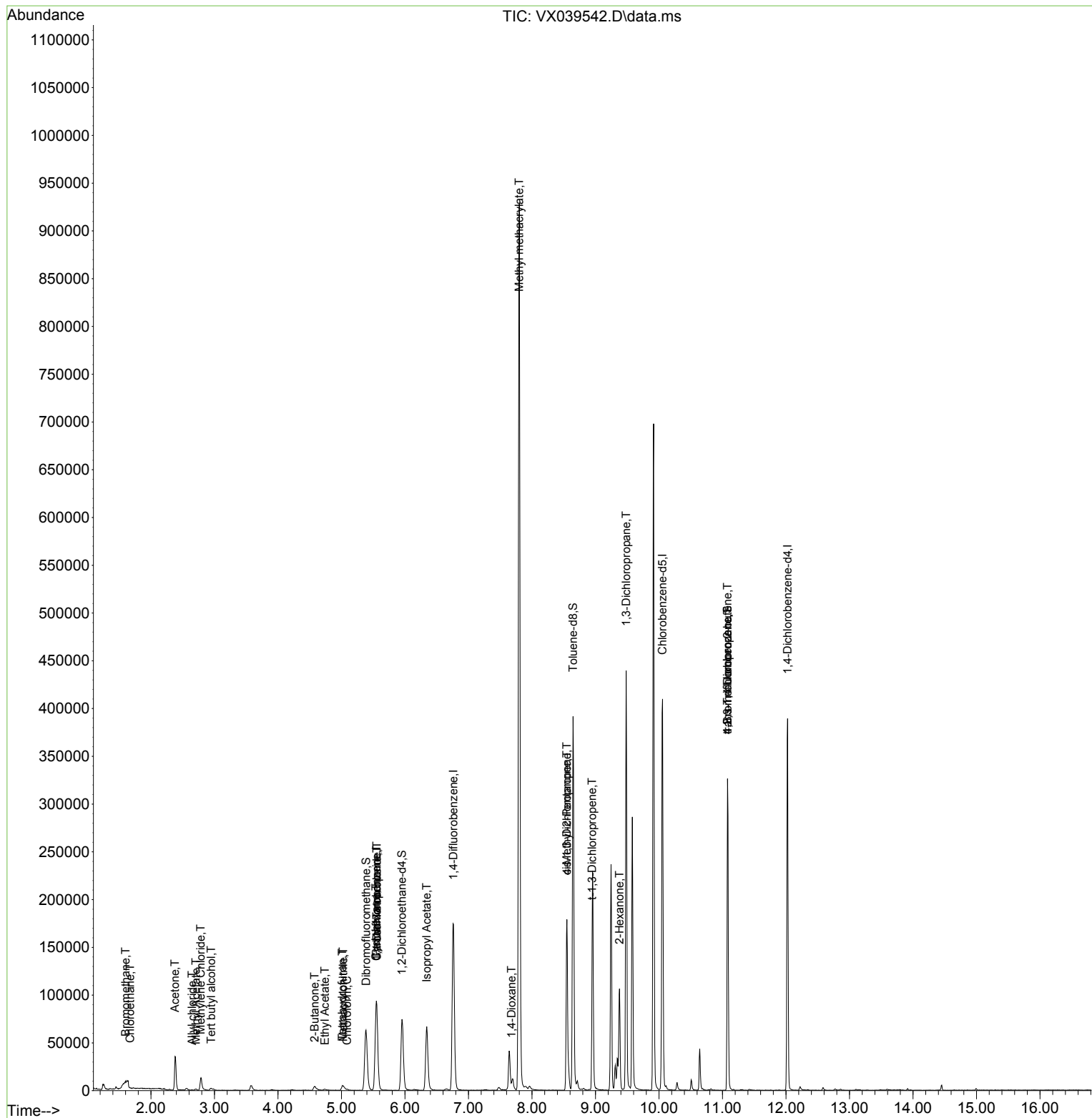
Internal Standards						
1) Pentafluorobenzene	5.550	168	82529	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	177276	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	175076	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	73289	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	72331	47.842	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	95.680%		
35) Dibromofluoromethane	5.385	113	56032	45.751	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.500%		
50) Toluene-d8	8.647	98	225128	49.514	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.020%		
62) 4-Bromofluorobenzene	11.079	95	88953	47.417	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.840%		
Target Compounds					Qvalue	
5) Bromomethane	1.599	94	215	0.313	ug/l #	51
6) Chloroethane	1.673	64	182	0.253	ug/l #	43
11) Tert butyl alcohol	2.947	59	1740	4.583	ug/l #	78
14) Allyl chloride	2.648	41	436	0.203	ug/l #	33
16) Acetone	2.380	43	38148	22.091	ug/l	93
18) Methyl Acetate	2.709	43	1888	0.577	ug/l	92
20) Methylene Chloride	2.782	84	6741	5.349	ug/l	99
25) 2-Butanone	4.574	43	8827	6.766	ug/l	97
29) Tetrahydrofuran	5.013	42	5241	7.274	ug/l	97
30) Chloroform	5.087	83	727	0.329	ug/l #	80
31) Cyclohexane	5.544	56	2215	1.134	ug/l #	1
36) 1,1-Dichloropropene	5.556	75	8193	4.239	ug/l #	46
37) Ethyl Acetate	4.739	43	2334	0.978	ug/l #	87
38) Carbon Tetrachloride	5.556	117	9042	4.903	ug/l #	15
41) Methacrylonitrile	5.026	41	3295	2.586	ug/l #	38
43) Isopropyl Acetate	6.342	43	93454	24.069	ug/l	100
48) Methyl methacrylate	7.799	41	81437	35.877	ug/l #	49
49) 1,4-Dioxane	7.678	88	101	3.301	ug/l #	12
51) 4-Methyl-2-Pentanone	8.549	43	72626	29.358	ug/l #	46
53) t-1,3-Dichloropropene	8.946	75	437	0.201	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	28151	12.051	ug/l #	59
57) 1,3-Dichloropropane	9.482	76	3496	1.468	ug/l #	42
59) 2-Hexanone	9.378	43	83545	39.131	ug/l #	26
76) 1,2,3-Trichloropropane	11.079	75	49197	25.946	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	49197	73.194	ug/l #	5

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

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ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MR-321-0-2

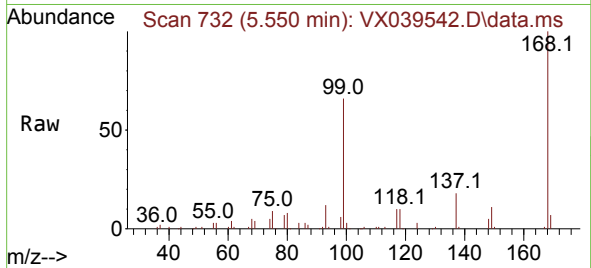
Quant Time: Dec 30 02:00:25 2023
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QLast Update : Thu Dec 14 01:28:15 2023
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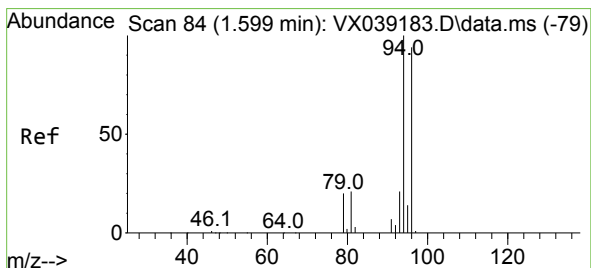
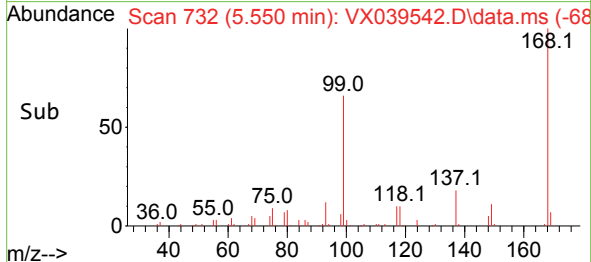
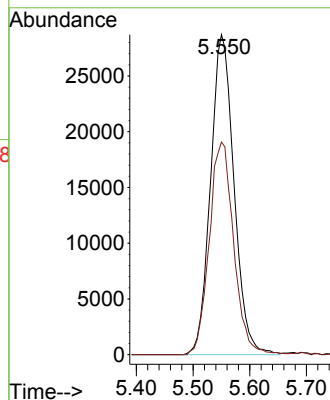


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

Instrument :
MSVOA_X
ClientSampleId :
MR-321-0-2

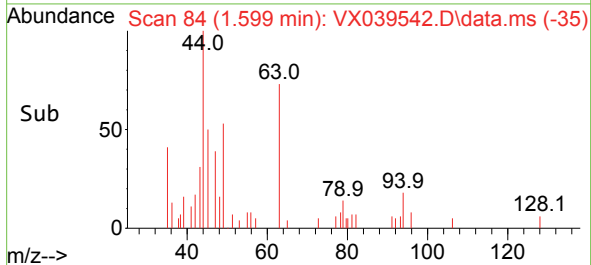
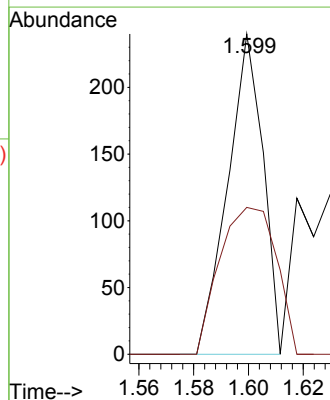
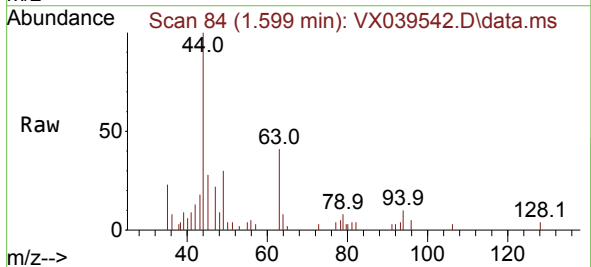


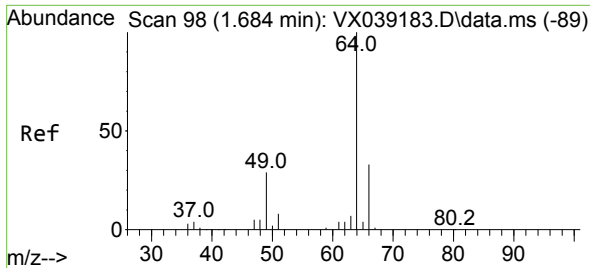
Tgt Ion:168 Resp: 82529
Ion Ratio Lower Upper
168 100
99 66.5 56.6 85.0



#5
Bromomethane
Concen: 0.313 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

Tgt Ion: 94 Resp: 215
Ion Ratio Lower Upper
94 100
96 45.8 74.6 111.8#

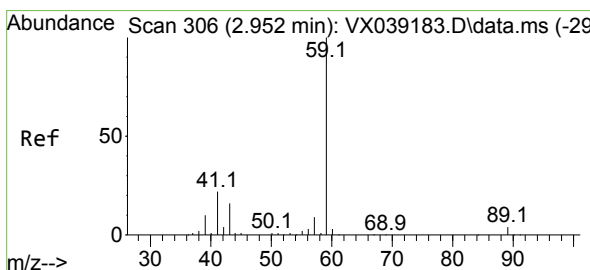
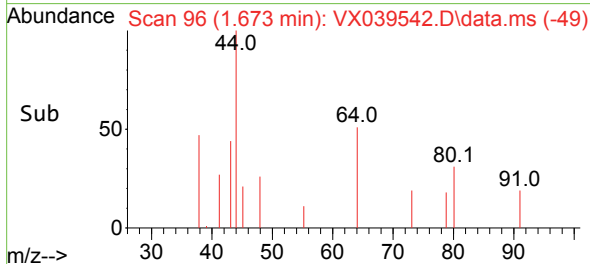
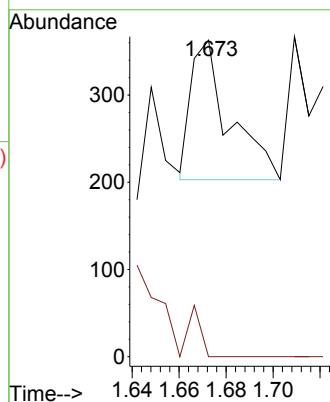
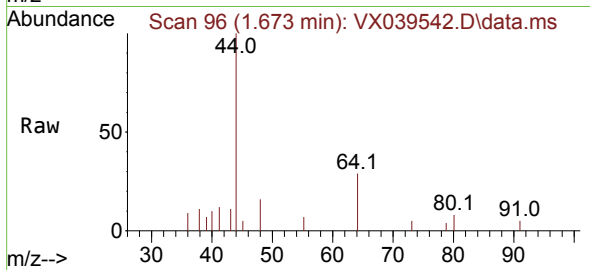




#6
 Chloroethane
 Concen: 0.253 ug/l
 RT: 1.673 min Scan# 90
 Delta R.T. -0.012 min
 Lab File: VX039542.D
 Acq: 29 Dec 2023 13:59

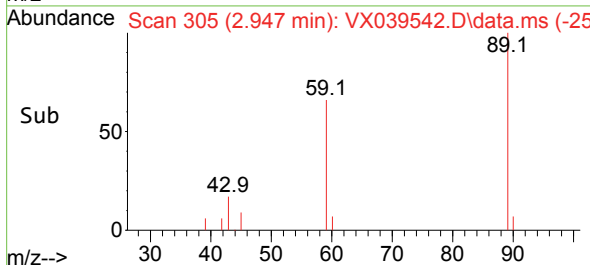
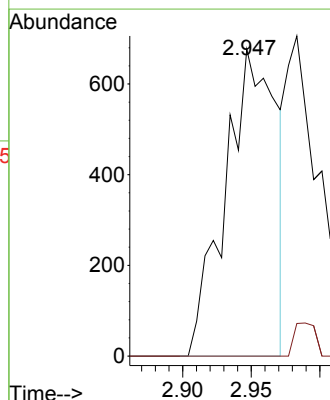
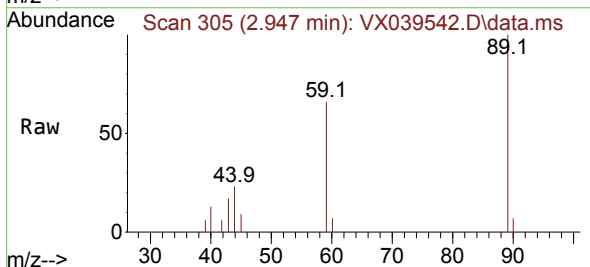
Instrument :
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 ClientSampleId :
 MR-321-0-2

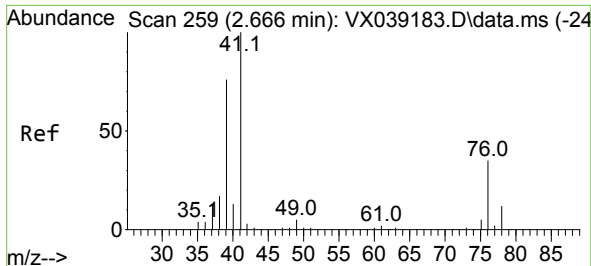
Tgt Ion: 64 Resp: 182
 Ion Ratio Lower Upper
 64 100
 66 0.0 25.1 37.7#



#11
 Tert butyl alcohol
 Concen: 4.583 ug/l
 RT: 2.947 min Scan# 305
 Delta R.T. -0.006 min
 Lab File: VX039542.D
 Acq: 29 Dec 2023 13:59

Tgt Ion: 59 Resp: 1740
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.0 9.0#

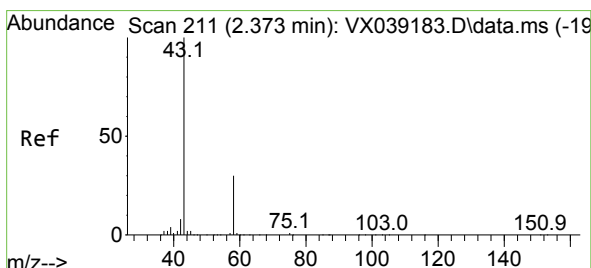
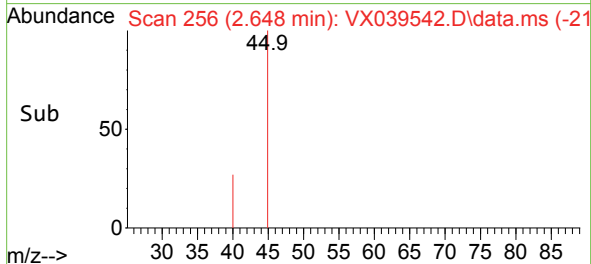
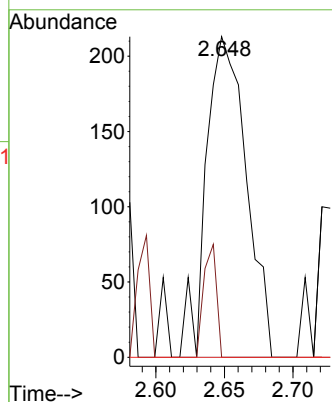
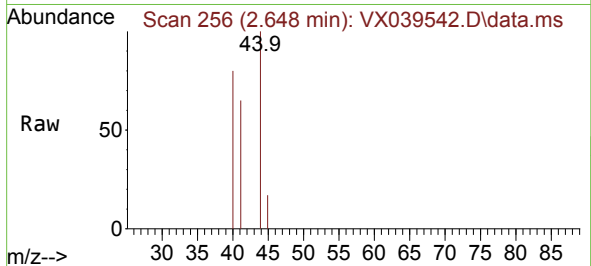




#14
 Allyl chloride
 Concen: 0.203 ug/l
 RT: 2.648 min Scan# 212
 Delta R.T. -0.018 min
 Lab File: VX039542.D
 Acq: 29 Dec 2023 13:59

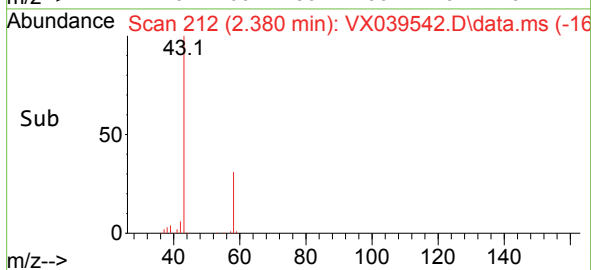
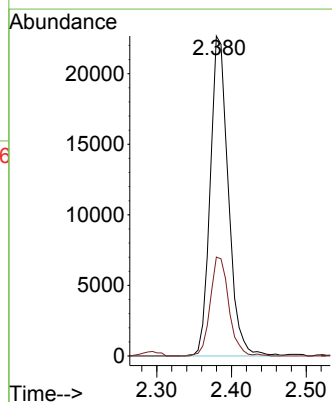
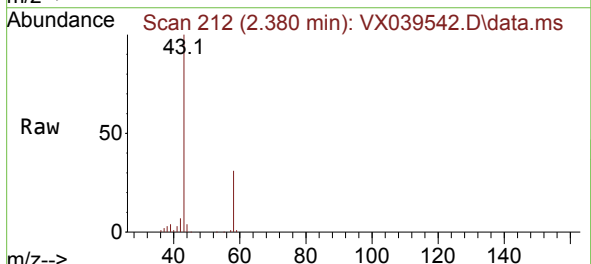
Instrument :
 MSVOA_X
 ClientSampleId :
 MR-321-0-2

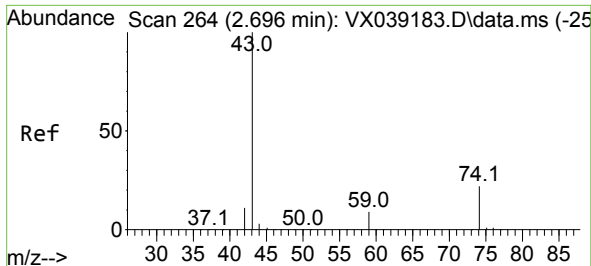
Tgt Ion: 41 Resp: 436
 Ion Ratio Lower Upper
 41 100
 39 11.2 55.8 83.6#
 76 0.0 24.3 36.5#



#16
 Acetone
 Concen: 22.091 ug/l
 RT: 2.380 min Scan# 212
 Delta R.T. 0.007 min
 Lab File: VX039542.D
 Acq: 29 Dec 2023 13:59

Tgt Ion: 43 Resp: 38148
 Ion Ratio Lower Upper
 43 100
 58 30.9 21.9 32.9

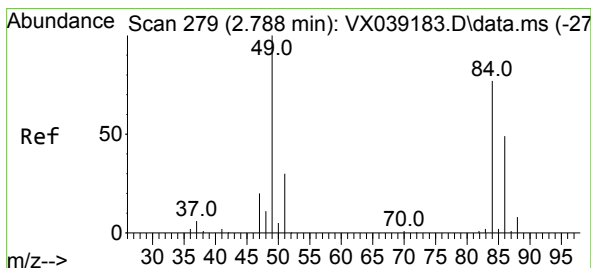
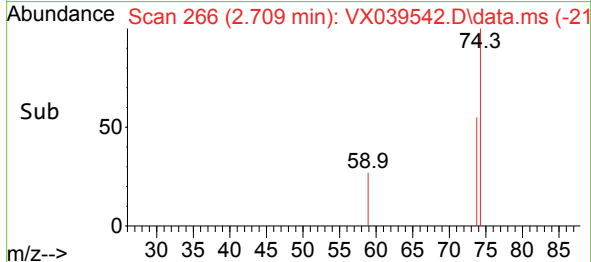
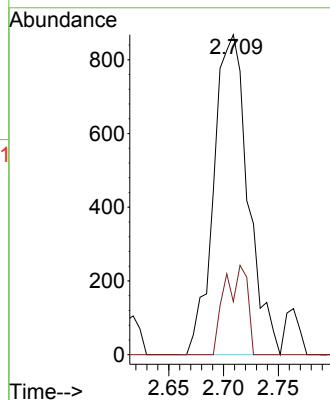
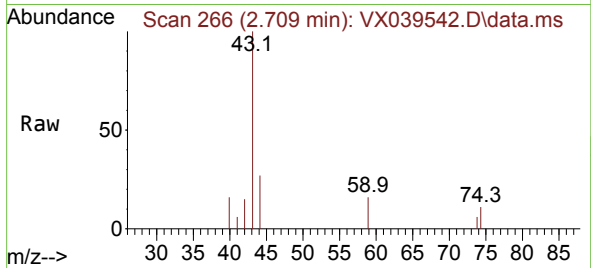




#18
Methyl Acetate
Concen: 0.577 ug/l
RT: 2.709 min Scan# 20
Delta R.T. 0.013 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

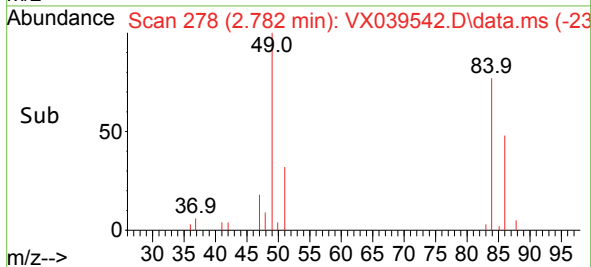
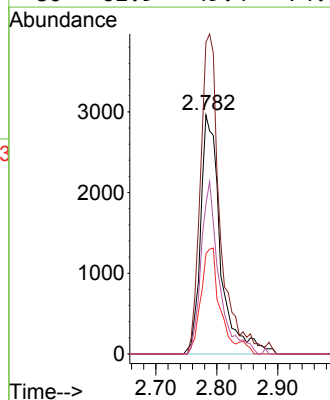
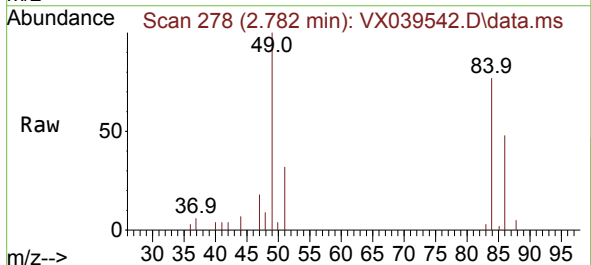
Instrument :
MSVOA_X
ClientSampleId :
MR-321-0-2

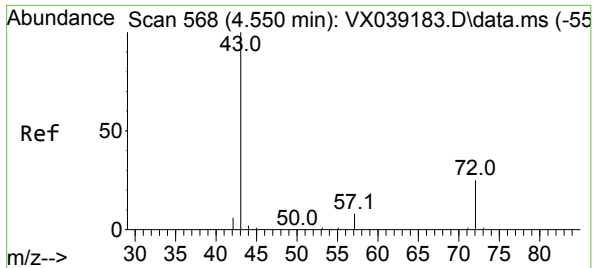
Tgt Ion: 43 Resp: 1888
Ion Ratio Lower Upper
43 100
74 18.4 17.8 26.8



#20
Methylene Chloride
Concen: 5.349 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

Tgt Ion: 84 Resp: 6741
Ion Ratio Lower Upper
84 100
49 130.6 103.6 155.4
51 42.1 33.8 50.6
86 62.9 49.4 74.0

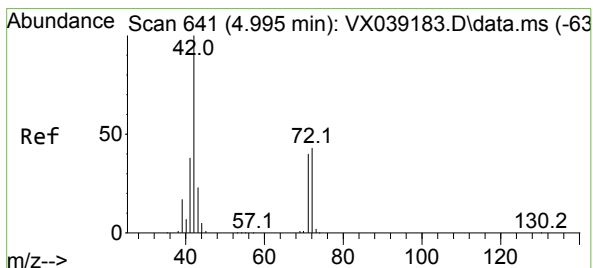
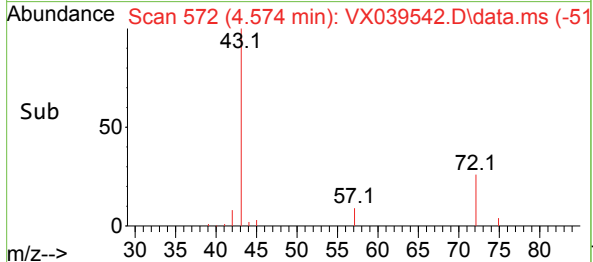
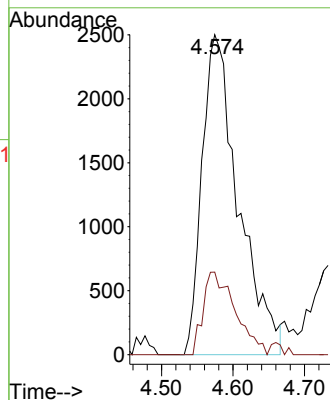
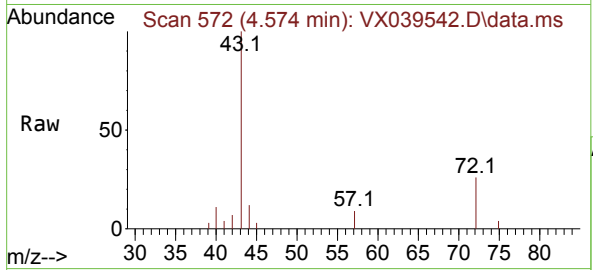




#25
2-Butanone
Concen: 6.766 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.025 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

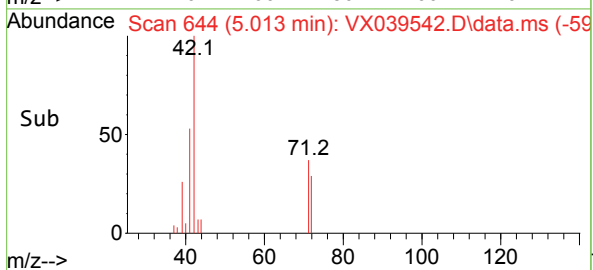
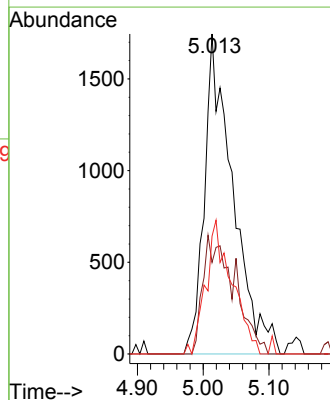
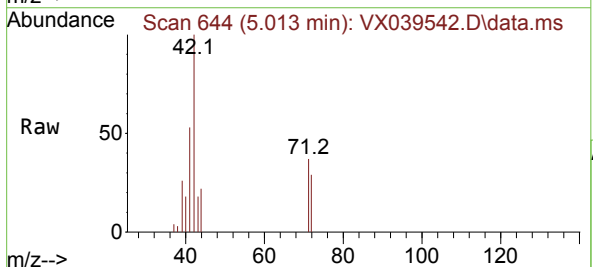
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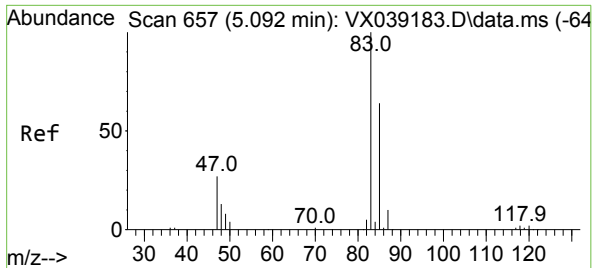
Tgt Ion: 43 Resp: 8827
Ion Ratio Lower Upper
43 100
72 25.8 19.4 29.2



#29
Tetrahydrofuran
Concen: 7.274 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.019 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

Tgt Ion: 42 Resp: 5241
Ion Ratio Lower Upper
42 100
72 41.3 34.2 51.4
71 38.5 32.2 48.2

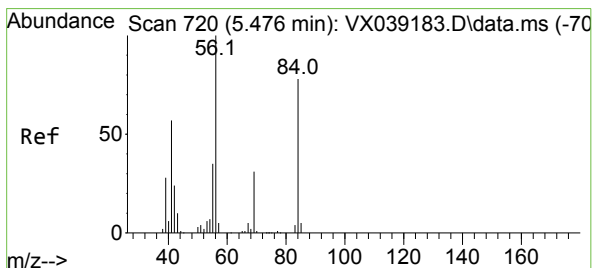
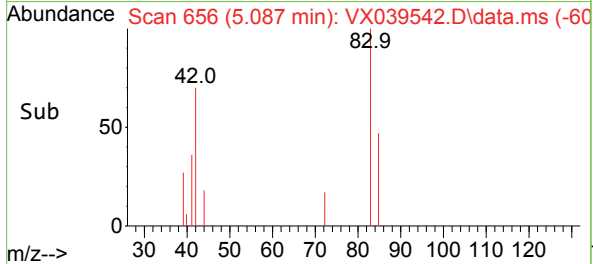
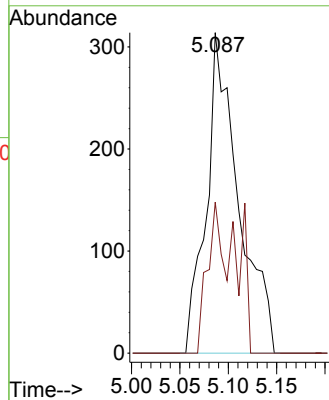
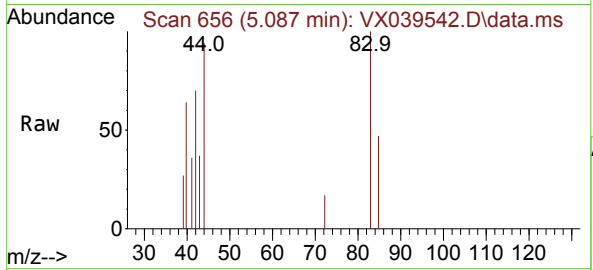




#30
Chloroform
Concen: 0.329 ug/l
RT: 5.087 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

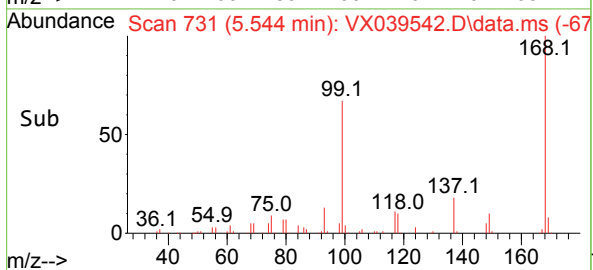
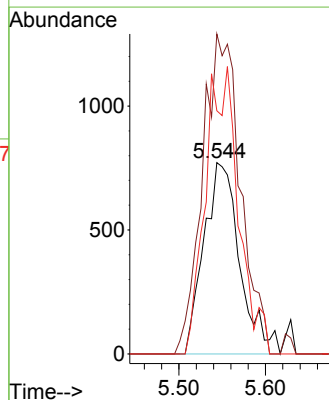
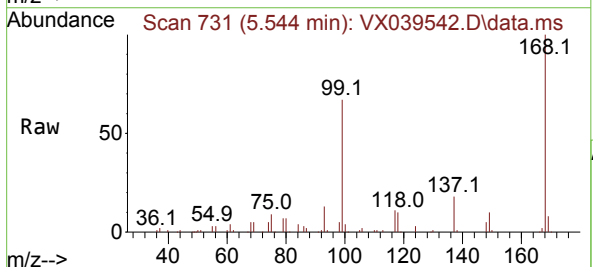
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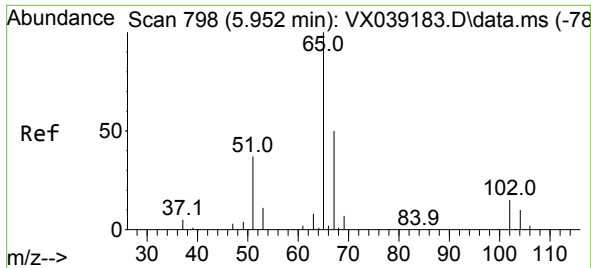
Tgt Ion: 83 Resp: 727
Ion Ratio Lower Upper
83 100
85 47.1 50.3 75.5#



#31
Cyclohexane
Concen: 1.134 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.067 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

Tgt Ion: 56 Resp: 2215
Ion Ratio Lower Upper
56 100
69 167.2 23.4 35.2#
84 127.1 65.9 98.9#

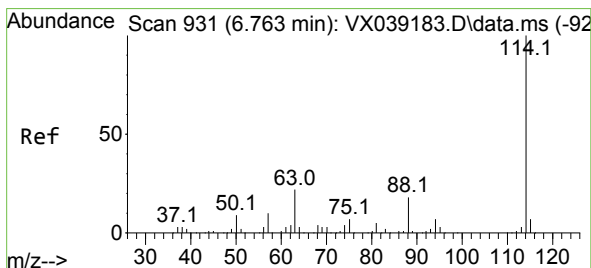
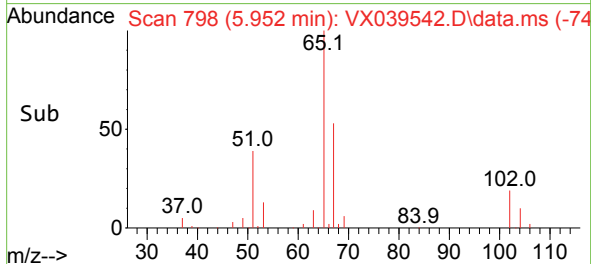
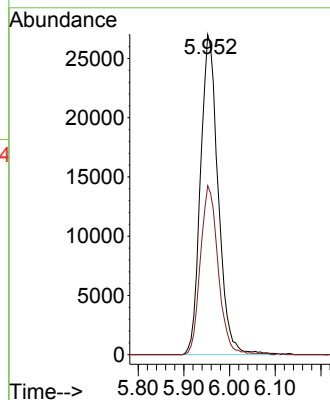
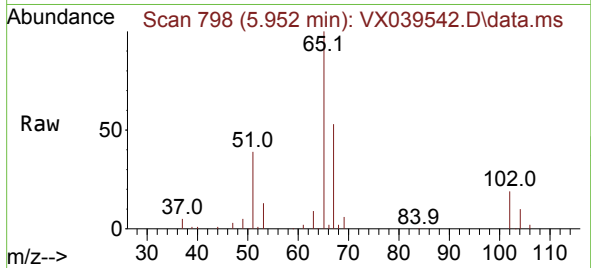




#33
 1,2-Dichloroethane-d4
 Concen: 47.842 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: VX039542.D
 Acq: 29 Dec 2023 13:59

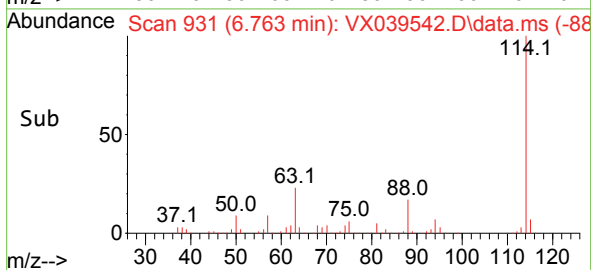
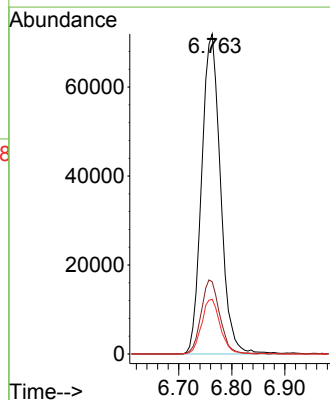
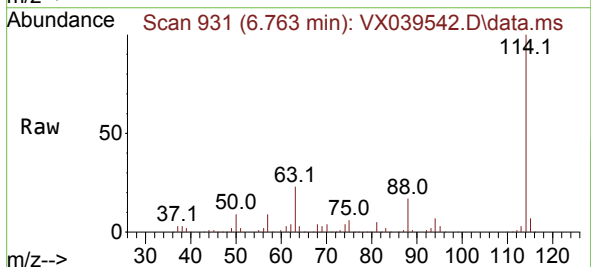
Instrument :
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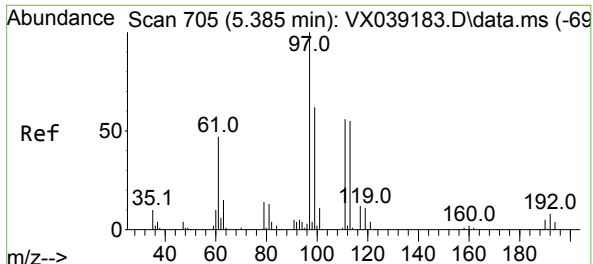
Tgt Ion: 65 Resp: 72331
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: VX039542.D
 Acq: 29 Dec 2023 13:59

Tgt Ion: 114 Resp: 177276
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.0
 88 17.1 0.0 36.6

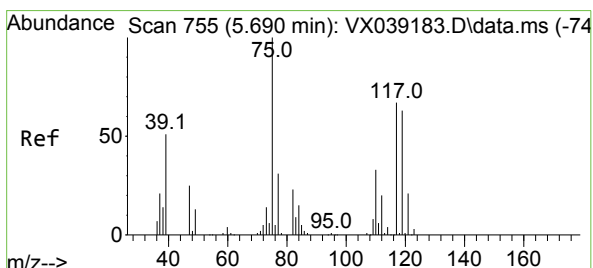
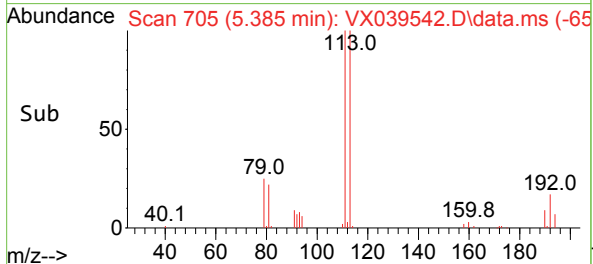
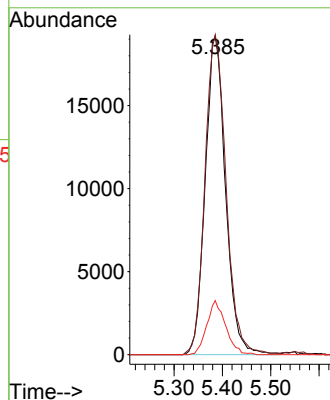
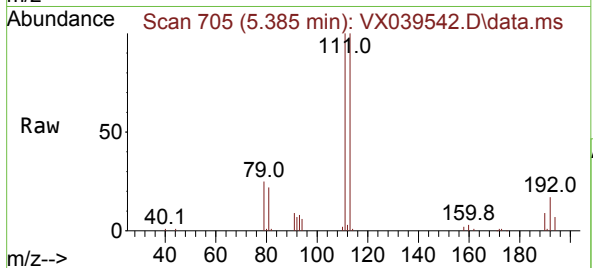




#35
Dibromofluoromethane
Concen: 45.751 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

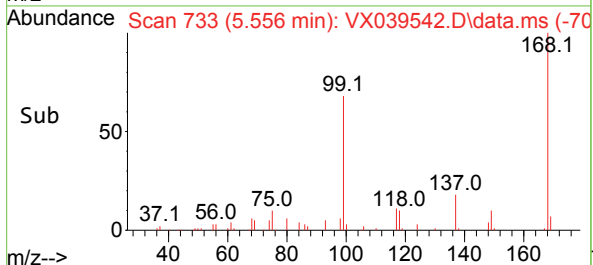
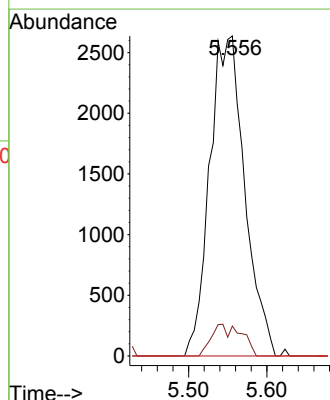
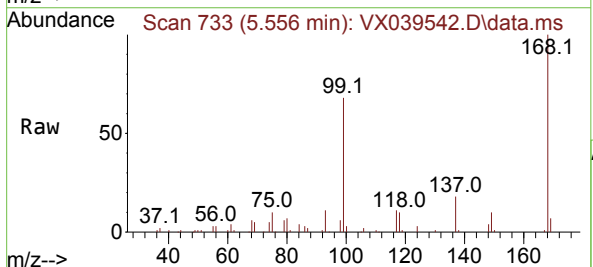
Instrument :
MSVOA_X
ClientSampleId :
MR-321-0-2

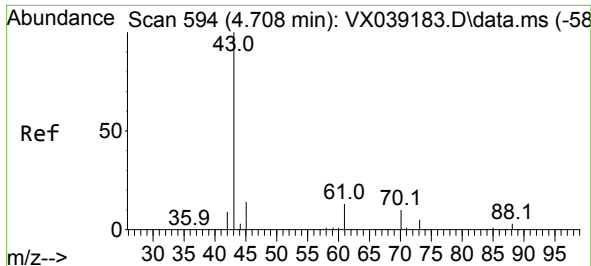
Tgt Ion:113 Resp: 56032
Ion Ratio Lower Upper
113 100
111 104.5 82.9 124.3
192 15.8 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.239 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.134 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

Tgt Ion: 75 Resp: 8193
Ion Ratio Lower Upper
75 100
110 4.6 17.0 50.9#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.978 ug/l

RT: 4.739 min Scan# 599

Delta R.T. 0.031 min

Lab File: VX039542.D

Acq: 29 Dec 2023 13:59

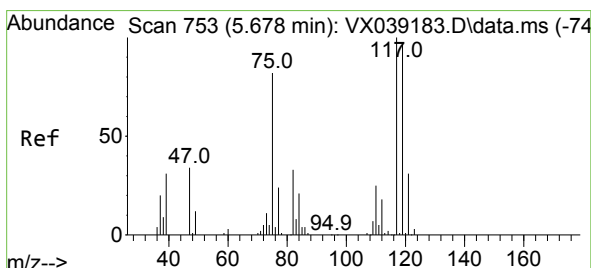
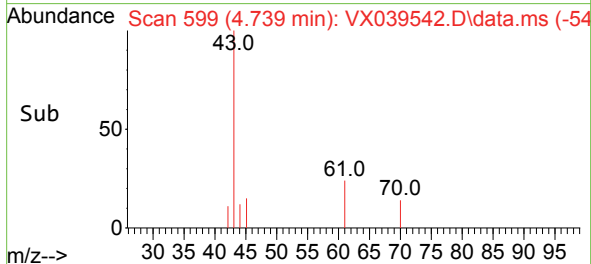
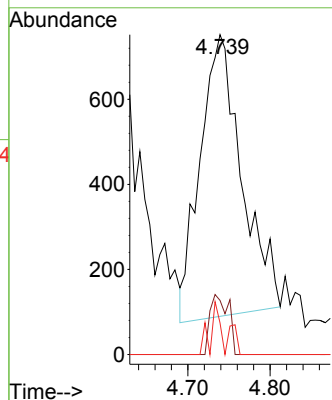
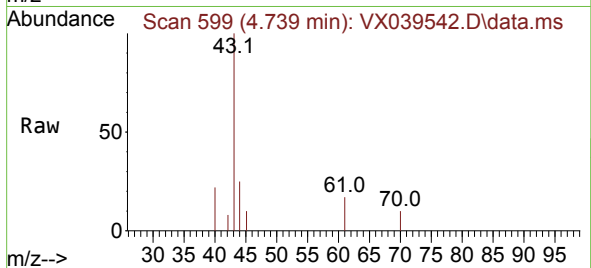
Instrument :

MSVOA_X

ClientSampleId :

MR-321-0-2

Tgt Ion: 43	Resp: 2334
Ion Ratio	Lower Upper
43 100	
61 9.3	10.6 16.0#
70 4.3	8.3 12.5#



#38

Carbon Tetrachloride

Concen: 4.903 ug/l

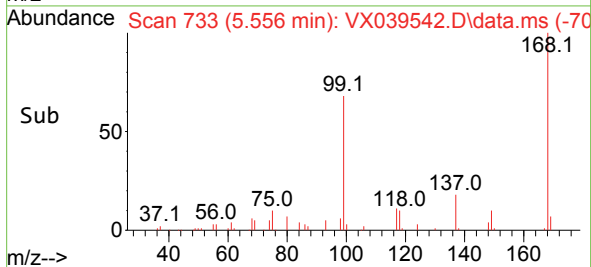
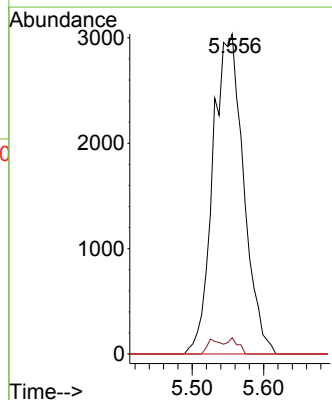
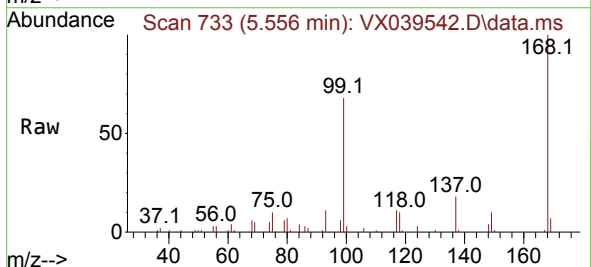
RT: 5.556 min Scan# 733

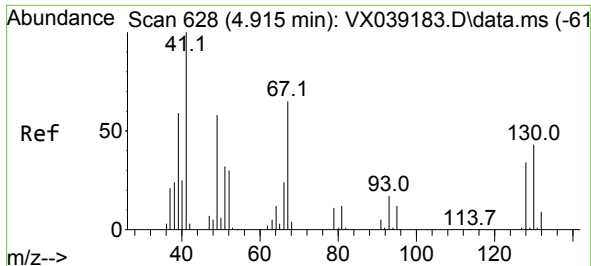
Delta R.T. -0.122 min

Lab File: VX039542.D

Acq: 29 Dec 2023 13:59

Tgt Ion: 117	Resp: 9042
Ion Ratio	Lower Upper
117 100	
119 5.1	78.2 117.2#
121 0.0	24.4 36.6#

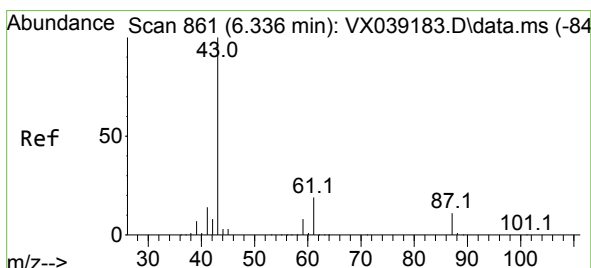
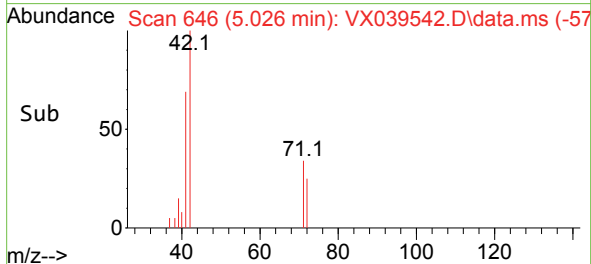
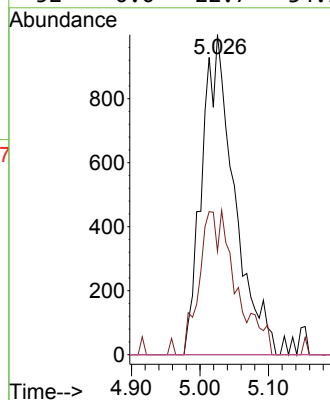
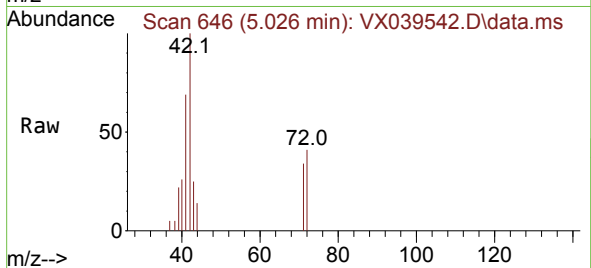




#41
Methacrylonitrile
Concen: 2.586 ug/l
RT: 5.026 min Scan# 646
Delta R.T. 0.110 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

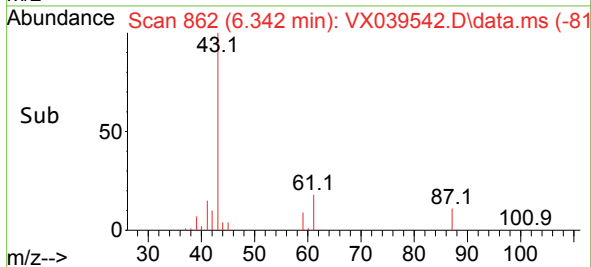
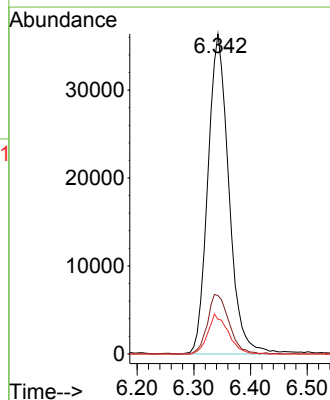
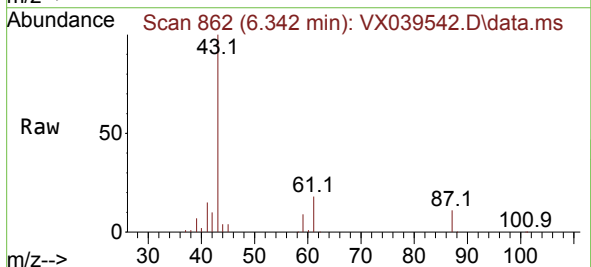
Instrument :
MSVOA_X
ClientSampleId :
MR-321-0-2

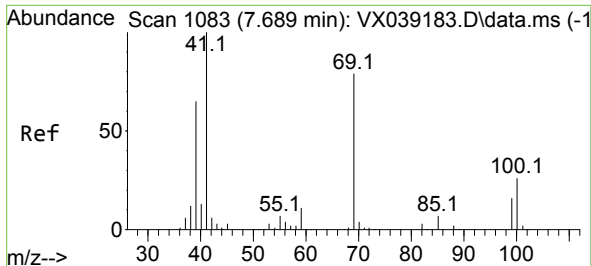
Tgt Ion:	41	Resp:	3295
Ion	Ratio	Lower	Upper
41	100		
39	25.3	45.2	67.8#
67	0.0	52.6	78.8#
52	0.0	22.7	34.1#



#43
Isopropyl Acetate
Concen: 24.069 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

Tgt Ion:	43	Resp:	93454
Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.1	9.8	14.6





#48

Methyl methacrylate

Concen: 35.877 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX039542.D

Acq: 29 Dec 2023 13:59

Instrument :

MSVOA_X

ClientSampleId :

MR-321-0-2

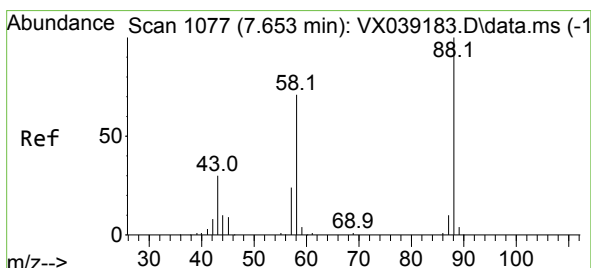
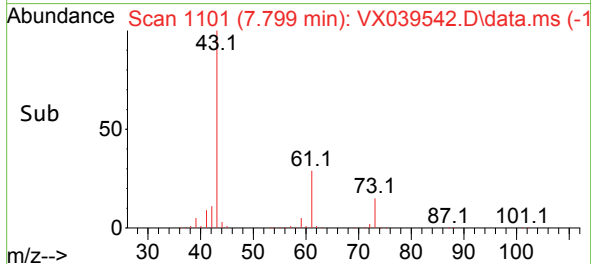
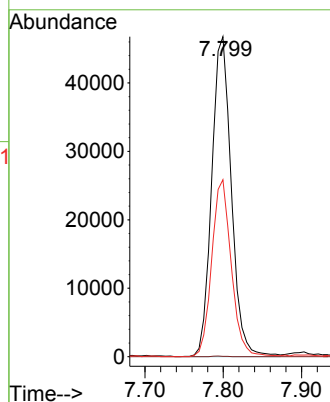
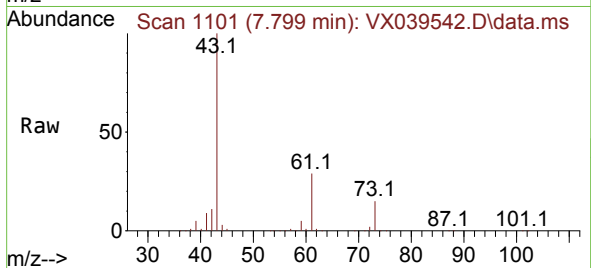
Tgt Ion: 41 Resp: 81437

Ion Ratio Lower Upper

41 100

69 0.1 59.2 88.8#

39 55.0 47.7 71.5



#49

1,4-Dioxane

Concen: 3.301 ug/l

RT: 7.678 min Scan# 1081

Delta R.T. 0.025 min

Lab File: VX039542.D

Acq: 29 Dec 2023 13:59

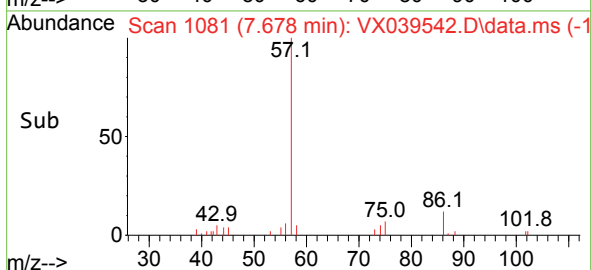
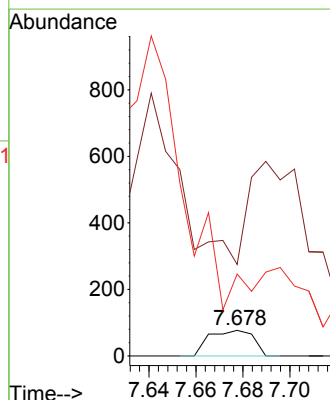
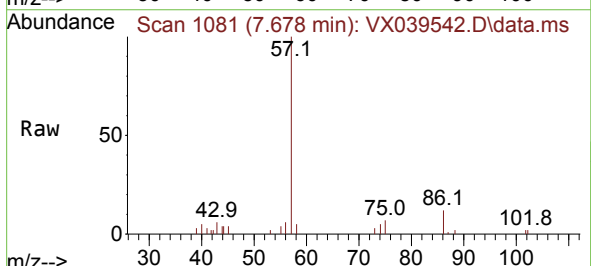
Tgt Ion: 88 Resp: 101

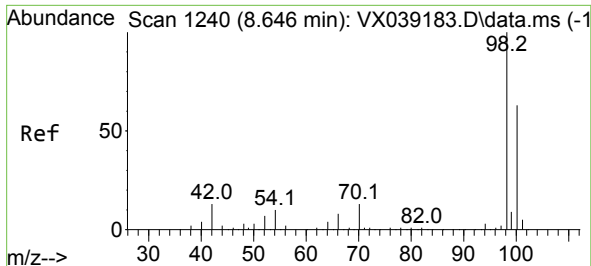
Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 60.1 90.1#

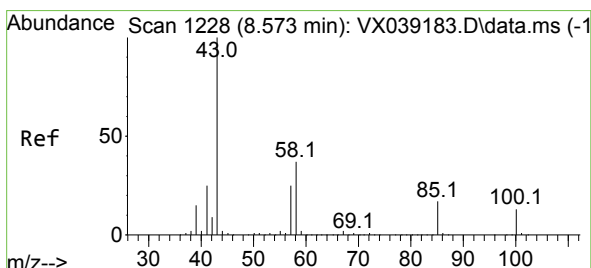
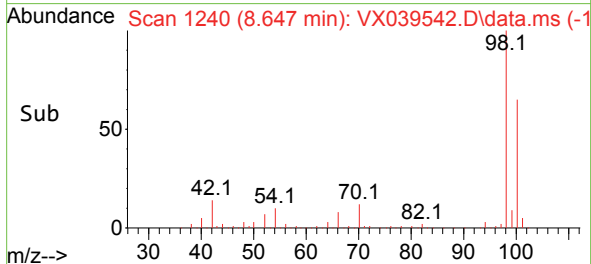
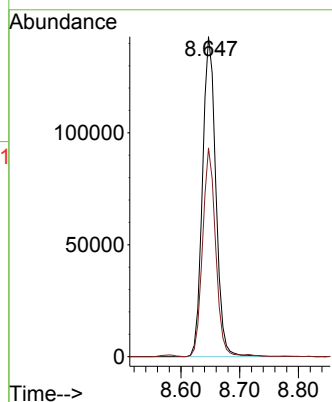
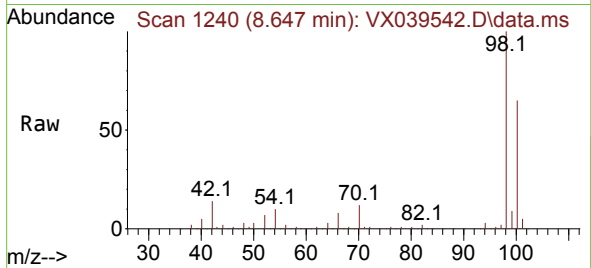




#50
Toluene-d8
Concen: 49.514 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

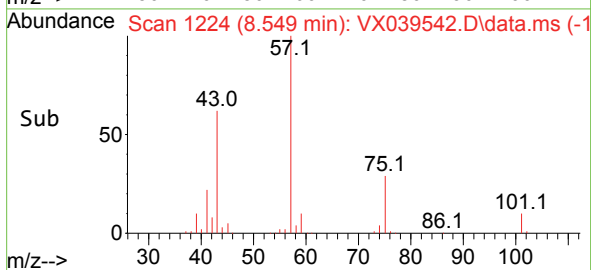
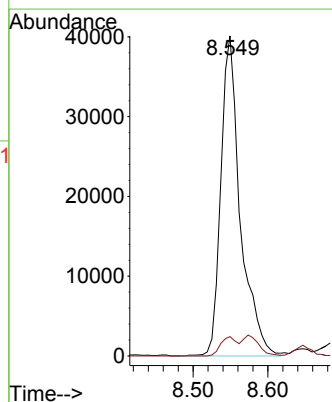
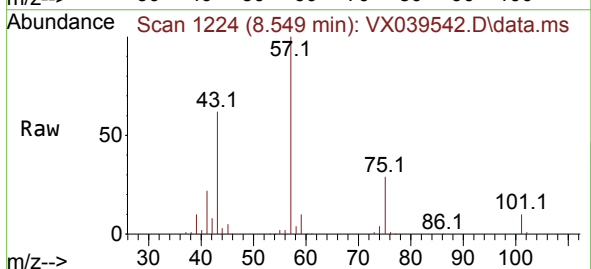
Instrument :
MSVOA_X
ClientSampleId :
MR-321-0-2

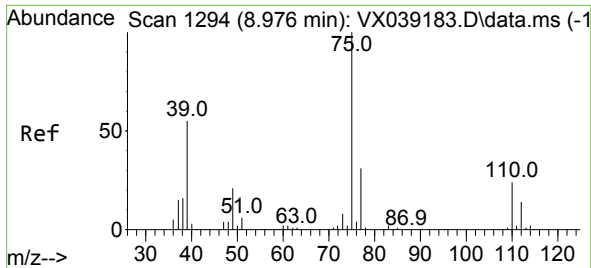
Tgt Ion: 98 Resp: 225128
Ion Ratio Lower Upper
98 100
100 63.6 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 29.358 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

Tgt Ion: 43 Resp: 72626
Ion Ratio Lower Upper
43 100
58 5.2 30.4 45.6#

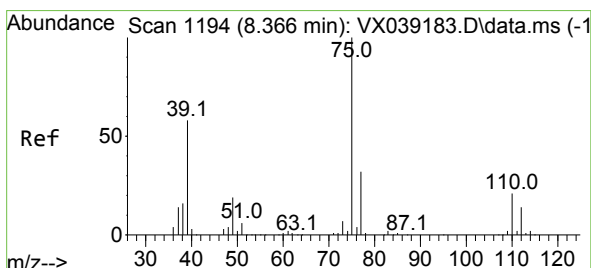
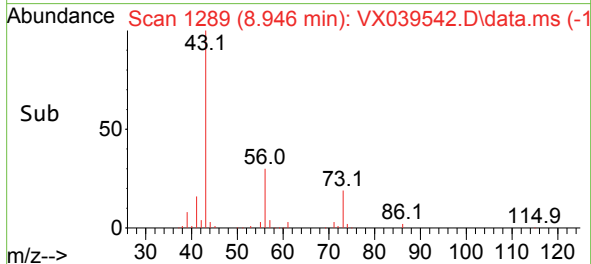
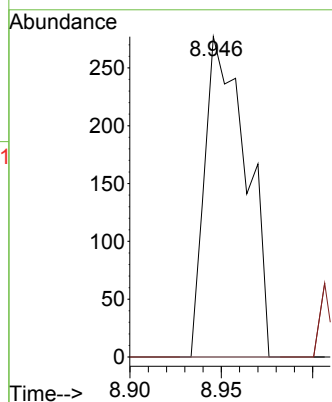
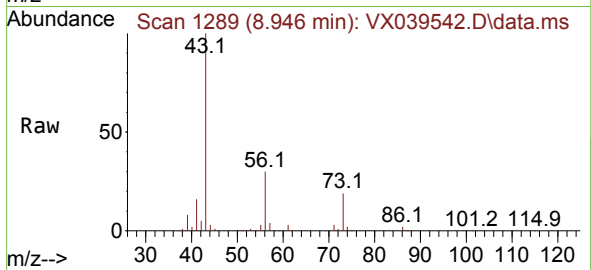




#53
 t-1,3-Dichloropropene
 Concen: 0.201 ug/l
 RT: 8.946 min Scan# 1124
 Delta R.T. -0.030 min
 Lab File: VX039542.D
 Acq: 29 Dec 2023 13:59

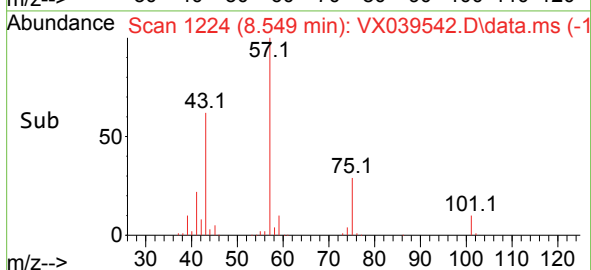
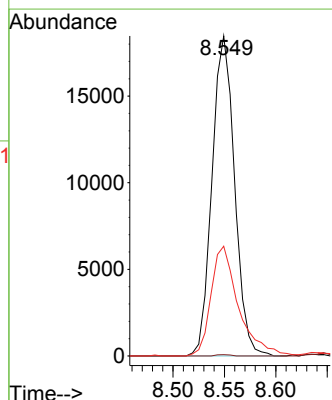
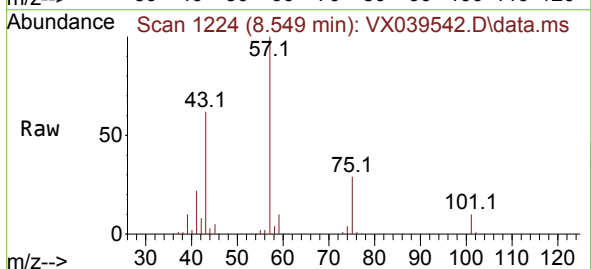
Instrument :
 MSVOA_X
 ClientSampleId :
 MR-321-0-2

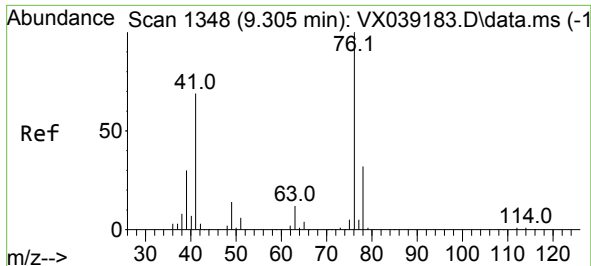
Tgt Ion: 75 Resp: 437
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#



#54
 cis-1,3-Dichloropropene
 Concen: 12.051 ug/l
 RT: 8.549 min Scan# 1224
 Delta R.T. 0.183 min
 Lab File: VX039542.D
 Acq: 29 Dec 2023 13:59

Tgt Ion: 75 Resp: 28151
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.3 37.9#
 39 34.3 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.468 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.177 min

Lab File: VX039542.D

Acq: 29 Dec 2023 13:59

Instrument :

MSVOA_X

ClientSampleId :

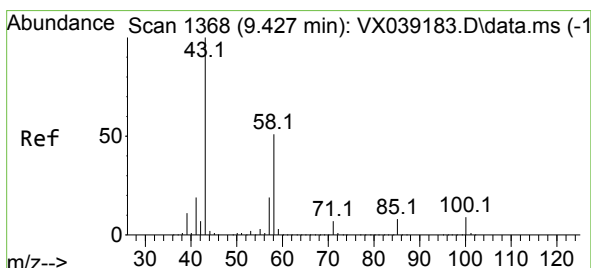
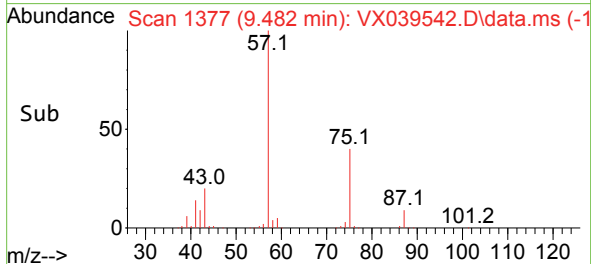
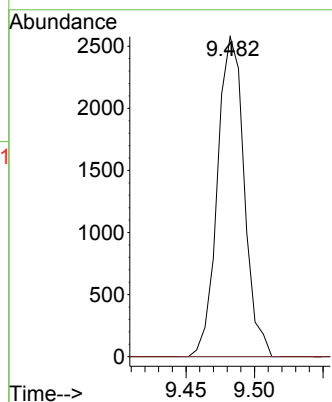
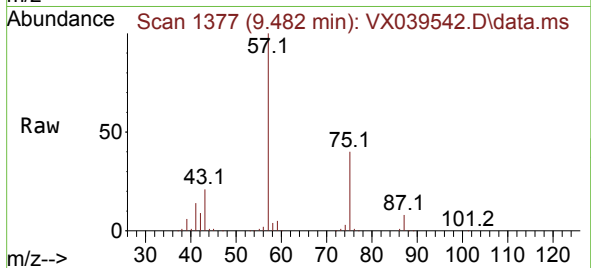
MR-321-0-2

Tgt Ion: 76 Resp: 3496

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 39.131 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.048 min

Lab File: VX039542.D

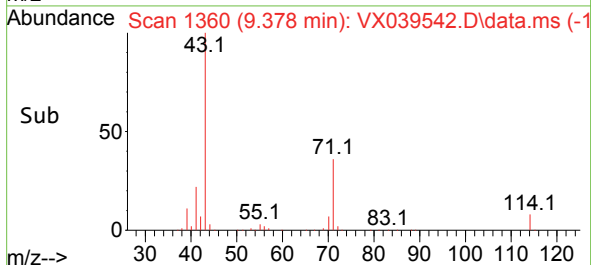
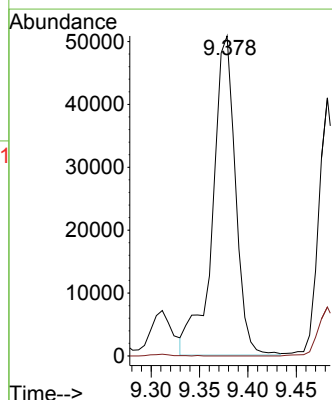
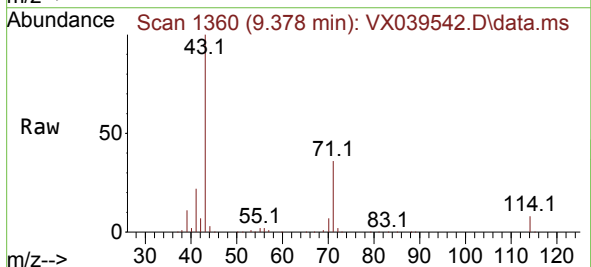
Acq: 29 Dec 2023 13:59

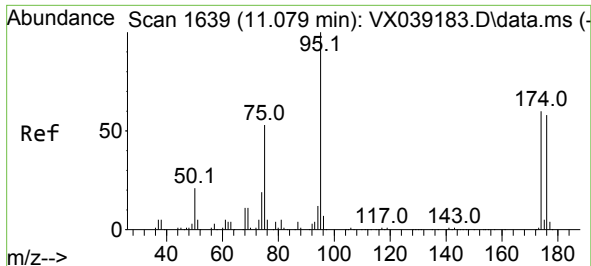
Tgt Ion: 43 Resp: 83545

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#

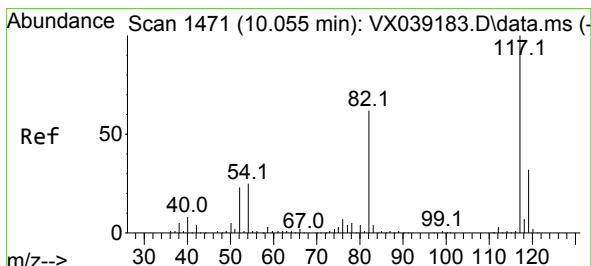
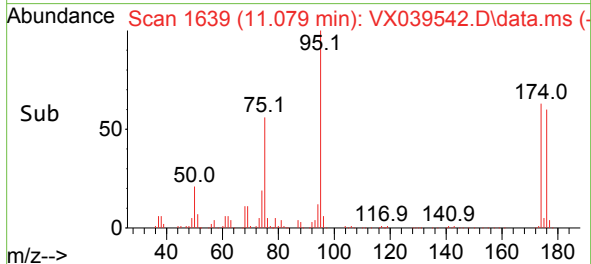
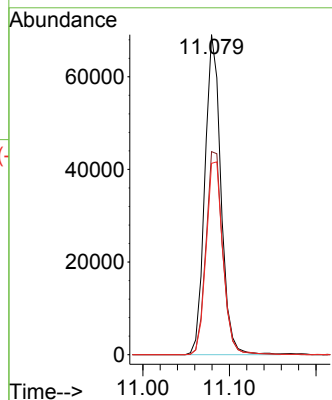
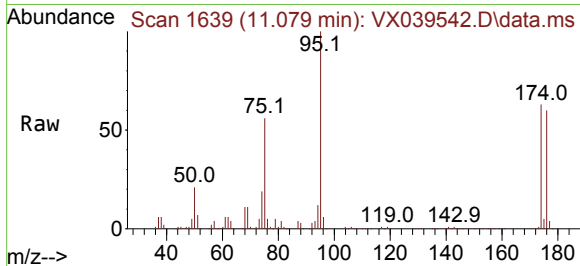




#62
4-Bromofluorobenzene
Concen: 47.417 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

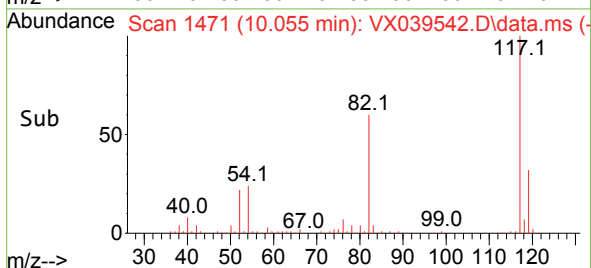
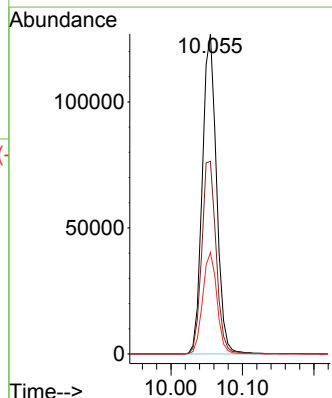
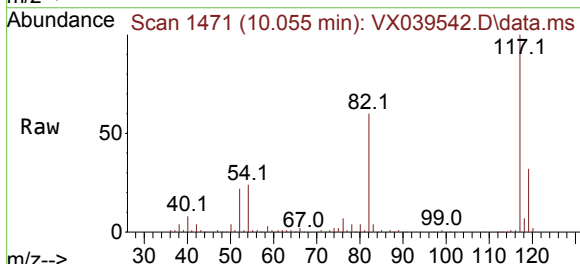
Instrument :
MSVOA_X
ClientSampleId :
MR-321-0-2

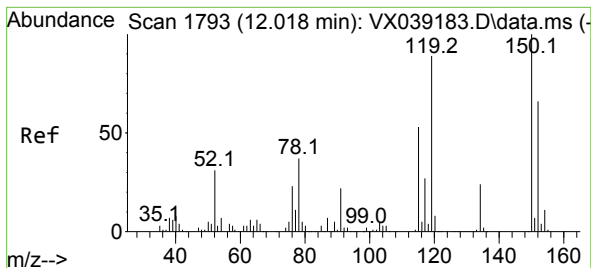
Tgt Ion: 95 Resp: 88953
Ion Ratio Lower Upper
95 100
174 66.2 0.0 135.6
176 63.7 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX039542.D
Acq: 29 Dec 2023 13:59

Tgt Ion: 117 Resp: 175076
Ion Ratio Lower Upper
117 100
82 60.2 46.2 69.4
119 31.7 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: VX039542.D

Acq: 29 Dec 2023 13:59

Instrument :

MSVOA_X

ClientSampleId :

MR-321-0-2

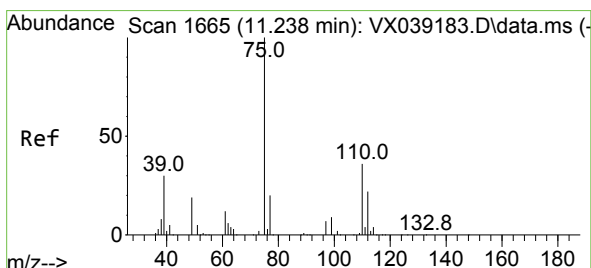
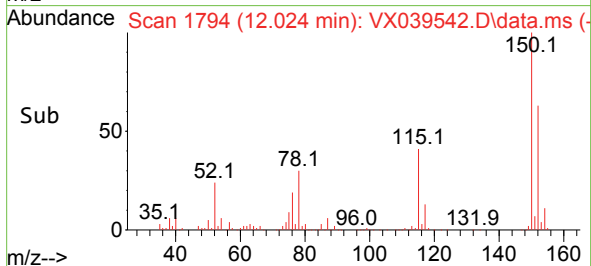
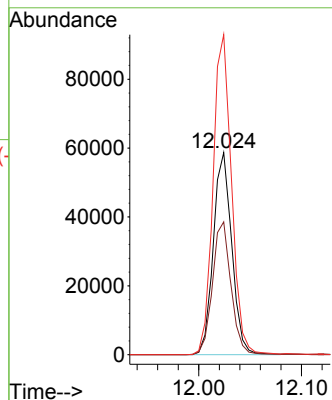
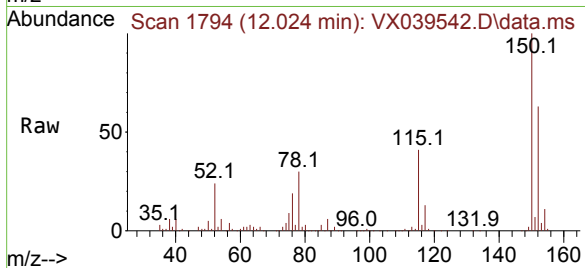
Tgt Ion:152 Resp: 73289

Ion Ratio Lower Upper

152 100

115 66.2 43.3 129.9

150 158.4 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 25.946 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX039542.D

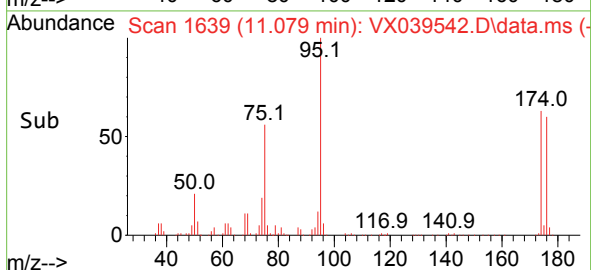
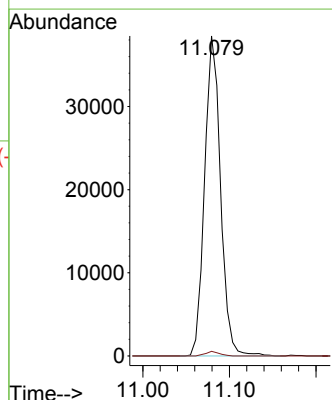
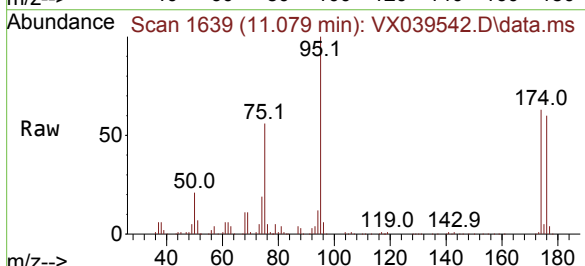
Acq: 29 Dec 2023 13:59

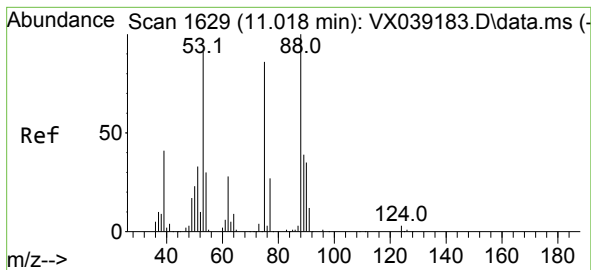
Tgt Ion: 75 Resp: 49197

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.194 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX039542.D
 Acq: 29 Dec 2023 13:59

Instrument :
 MSVOA_X
 ClientSampleId :
 MR-321-0-2

Tgt Ion: 75 Resp: 49197
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.5 135.7#
 89 0.1 36.9 55.3#

