

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072722\
 Data File : VX030257.D
 Acq On : 28 Jul 2022 02:00
 Operator : JC/MD
 Sample : N3898-04 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 61422-D

Quant Time: Jul 28 05:56:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 25 16:49:17 2022
 Response via : Initial Calibration

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

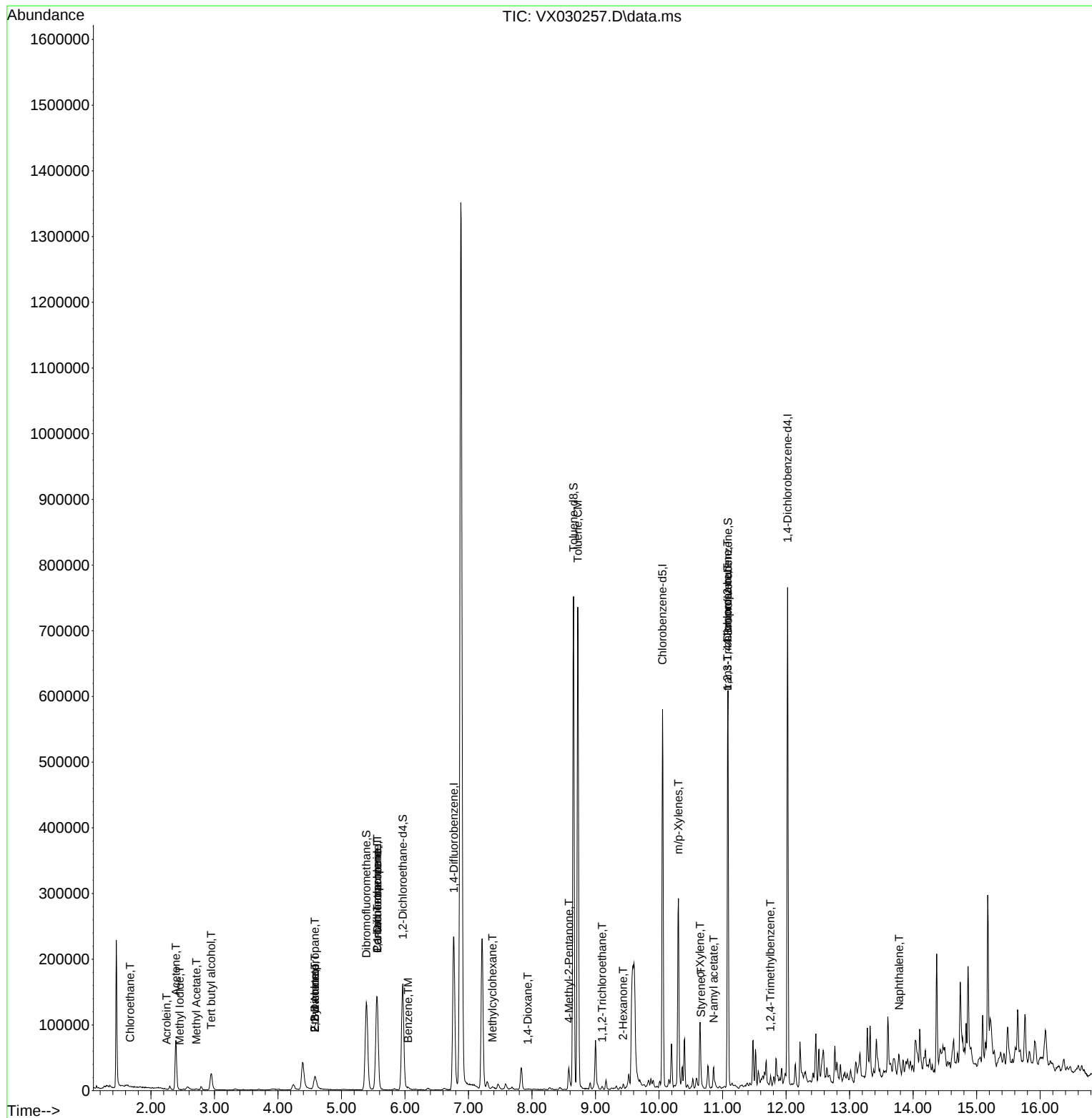
Internal Standards						
1) Pentafluorobenzene	5.562	168	133823	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	237867	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	249440	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	144222	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	149862	55.716	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.440%			
35) Dibromofluoromethane	5.391	113	119071	52.365	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.720%			
50) Toluene-d8	8.653	98	438689	49.817	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.640%			
62) 4-Bromofluorobenzene	11.085	95	161575	49.440	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.880%			
Target Compounds			Qvalue			
5) Bromomethane	1.618	94	214	Below Cal	#	80
6) Chloroethane	1.672	64	448	0.356	ug/l #	66
10) Methyl Iodide	2.453	142	41	1.544	ug/l #	45
11) Tert butyl alcohol	2.947	59	16804	25.612	ug/l #	80
13) Acrolein	2.246	56	171	1.060	ug/l #	49
16) Acetone	2.392	43	84984	61.713	ug/l	92
18) Methyl Acetate	2.715	43	1951	0.479	ug/l	94
20) Methylene Chloride	2.782	84	2046	Below Cal	#	74
25) 2-Butanone	4.580	43	14390	6.218	ug/l #	87
26) 2,2-Dichloropropane	4.580	77	1209	0.385	ug/l #	49
36) 1,1-Dichloropropene	5.562	75	12346	3.773	ug/l #	46
37) Ethyl Acetate	4.580	43	13750	2.967	ug/l #	72
38) Carbon Tetrachloride	5.562	117	13561	4.439	ug/l #	19
39) Methylcyclohexane	7.379	83	1306	0.309	ug/l #	94
40) Benzene	6.050	78	4338	0.421	ug/l	92
49) 1,4-Dioxane	7.934	88	27	0.350	ug/l #	25
51) 4-Methyl-2-Pentanone	8.580	43	19051	4.131	ug/l	99
52) Toluene	8.720	92	271542	43.228	ug/l	99
55) 1,1,2-Trichloroethane	9.104	97	1729	0.646	ug/l #	18
59) 2-Hexanone	9.433	43	4638	1.275	ug/l	99
68) m/p-Xylenes	10.305	106	62623	13.643	ug/l	94
69) o-Xylene	10.646	106	19601	4.333	ug/l	87
70) Styrene	10.659	104	7803	1.050	ug/l #	62
74) N-amyl acetate	10.860	43	4738	0.866	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	80373	21.142	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	80373	63.424	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.756	105	5042	0.536	ug/l	86
95) Naphthalene	13.780	128	17949	1.571	ug/l	96

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

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QLast Update : Mon Jul 25 16:49:17 2022
Response via : Initial Calibration

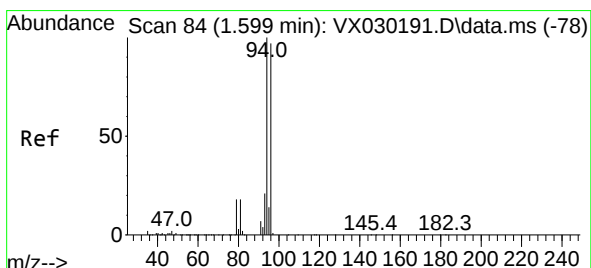
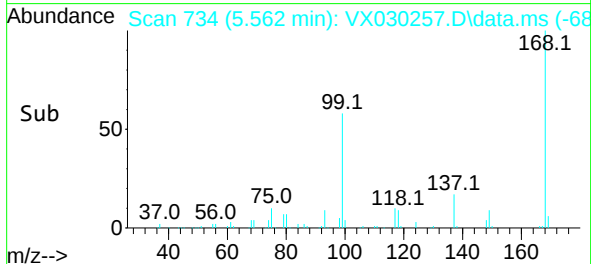
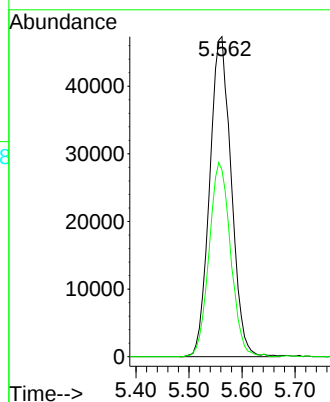
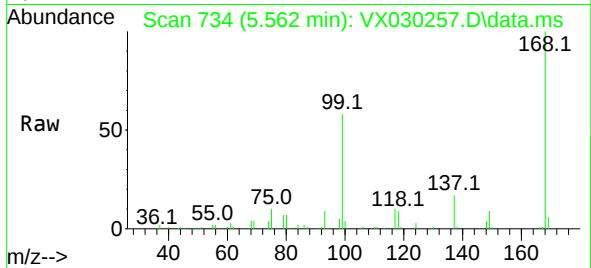




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

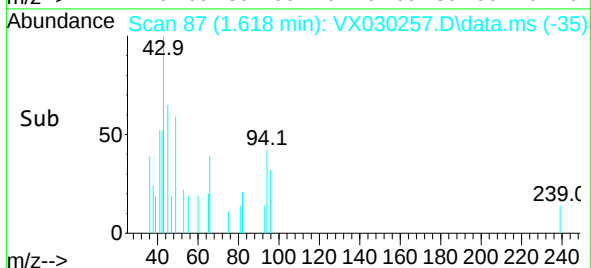
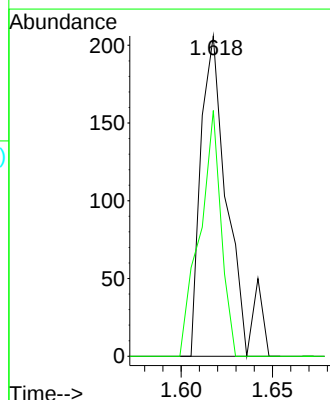
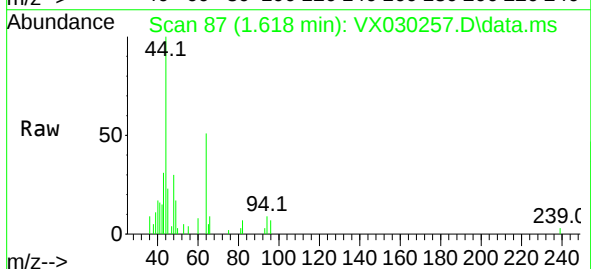
Instrument :
MSVOA_X
ClientSampleId :
61422-D

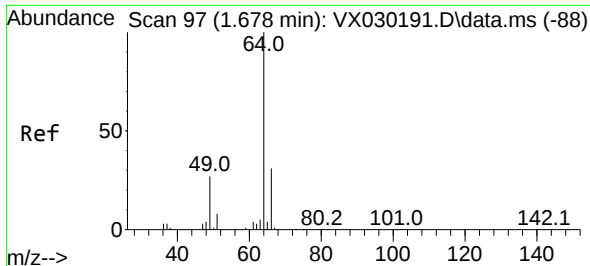
Tgt Ion:168 Resp: 133823
Ion Ratio Lower Upper
168 100
99 58.4 44.0 66.0



#5
Bromomethane
Concen: Below Cal
RT: 1.618 min Scan# 87
Delta R.T. 0.019 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion: 94 Resp: 214
Ion Ratio Lower Upper
94 100
96 76.7 76.9 115.3#

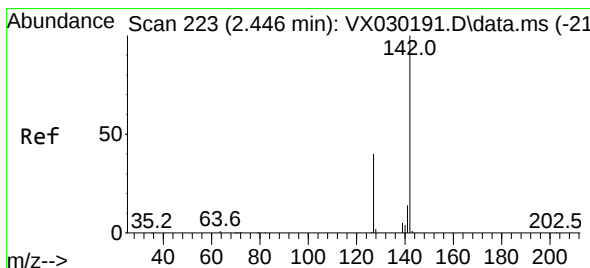
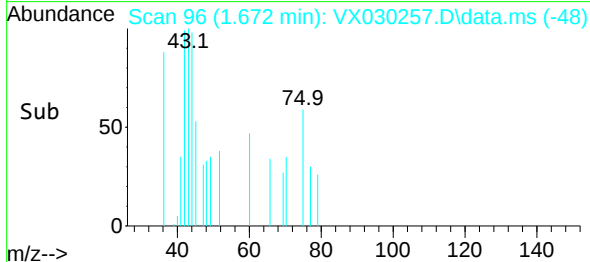
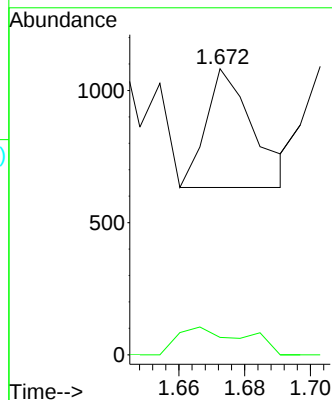
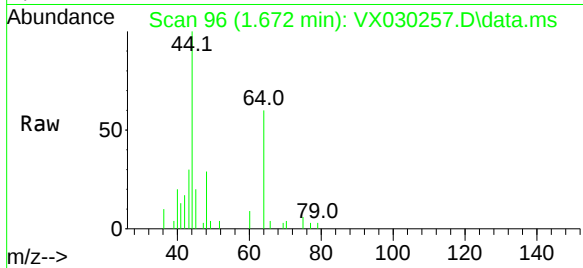




#6
Chloroethane
Concen: 0.356 ug/l
RT: 1.672 min Scan# 90
Delta R.T. -0.006 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

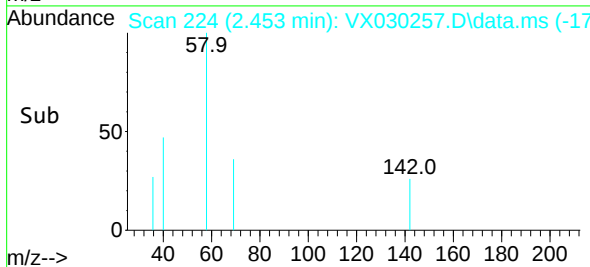
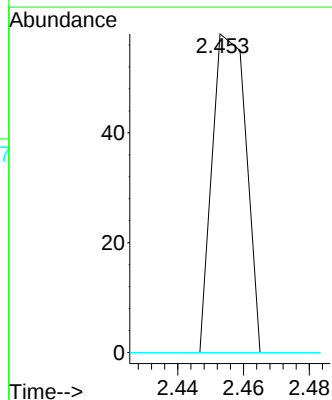
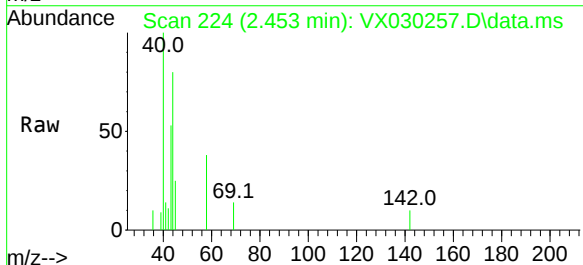
Instrument :
MSVOA_X
ClientSampleId :
61422-D

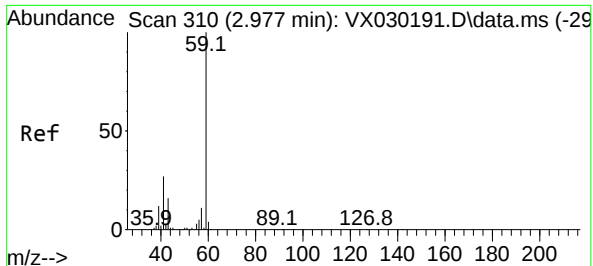
Tgt Ion: 64 Resp: 448
Ion Ratio Lower Upper
64 100
66 14.7 27.2 40.8#



#10
Methyl Iodide
Concen: 1.544 ug/l
RT: 2.453 min Scan# 224
Delta R.T. 0.007 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion: 142 Resp: 41
Ion Ratio Lower Upper
142 100
127 0.0 30.2 45.2#
141 0.0 11.3 16.9#





#11

Tert butyl alcohol

Concen: 25.612 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.030 min

Lab File: VX030257.D

Acq: 28 Jul 2022 02:00

Instrument :

MSVOA_X

ClientSampleId :

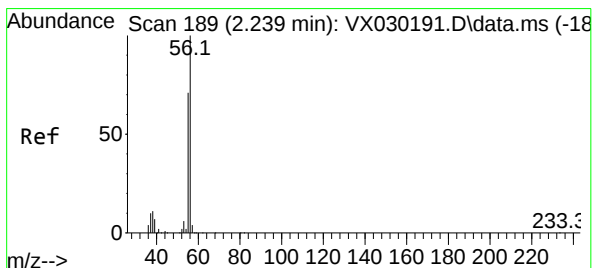
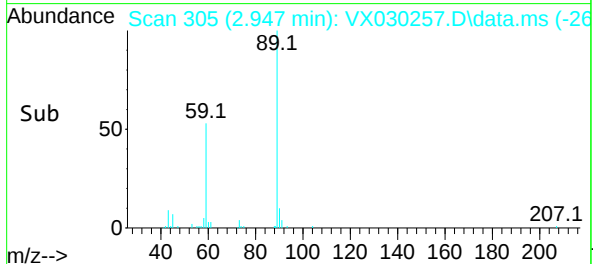
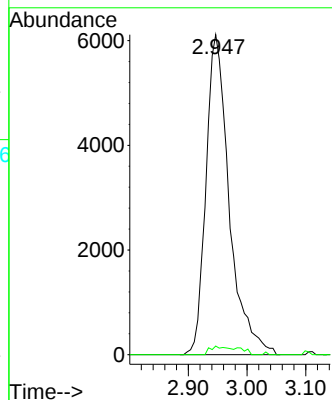
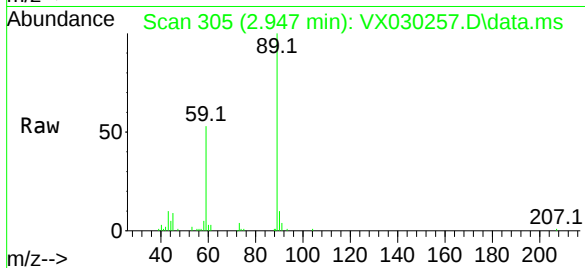
61422-D

Tgt Ion: 59 Resp: 16804

Ion Ratio Lower Upper

59 100

57 2.2 7.4 11.2#



#13

Acrolein

Concen: 1.060 ug/l

RT: 2.246 min Scan# 190

Delta R.T. 0.007 min

Lab File: VX030257.D

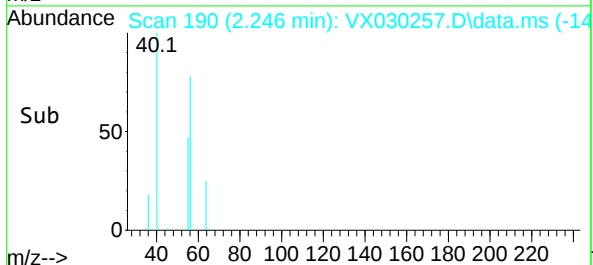
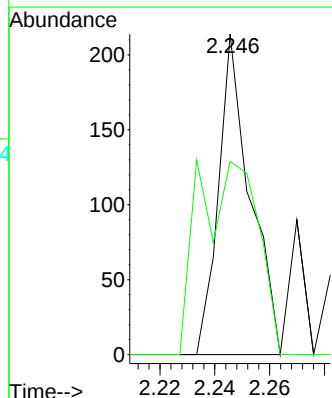
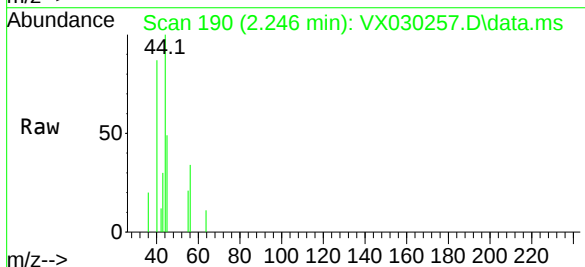
Acq: 28 Jul 2022 02:00

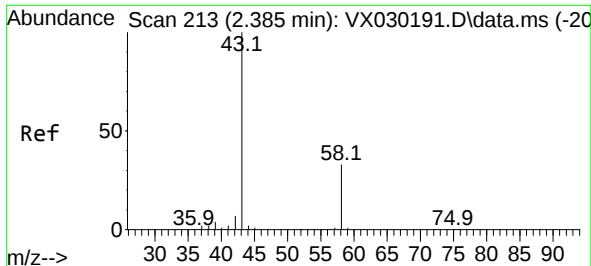
Tgt Ion: 56 Resp: 171

Ion Ratio Lower Upper

56 100

55 112.9 56.6 84.8#

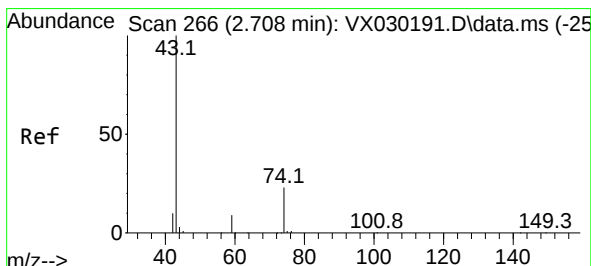
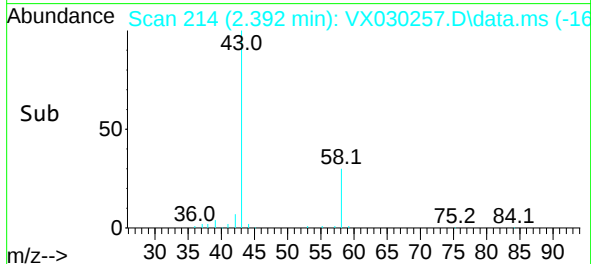
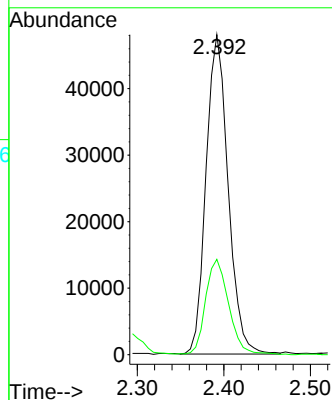
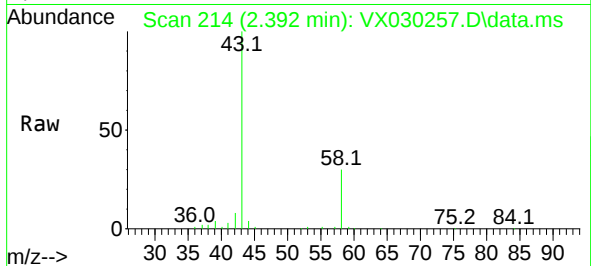




#16
Acetone
Concen: 61.713 ug/l
RT: 2.392 min Scan# 21
Delta R.T. 0.007 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

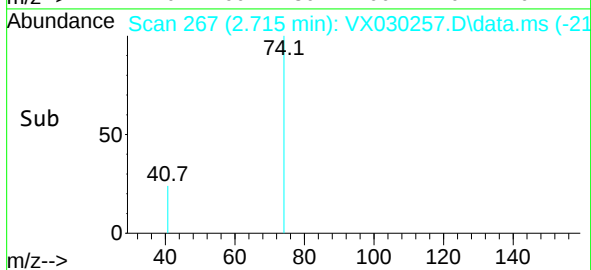
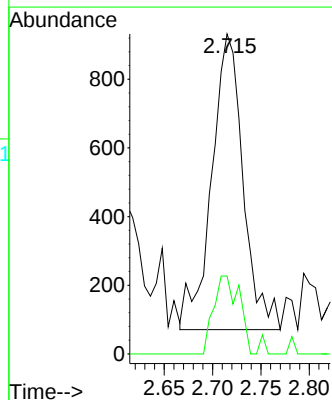
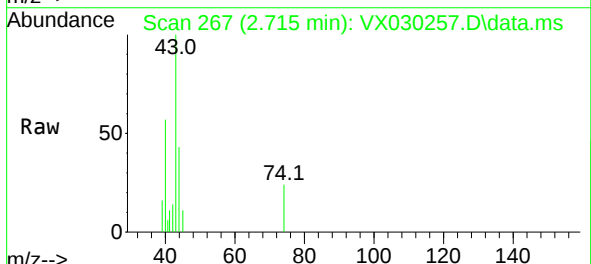
Instrument :
MSVOA_X
ClientSampleId :
61422-D

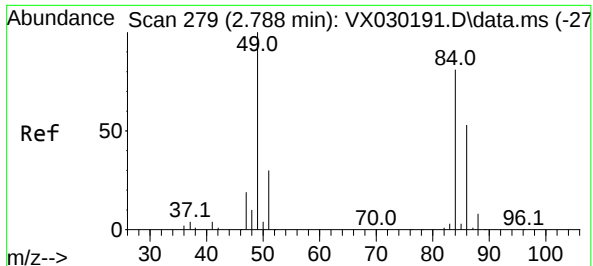
Tgt Ion: 43 Resp: 84984
Ion Ratio Lower Upper
43 100
58 29.8 27.7 41.5



#18
Methyl Acetate
Concen: 0.479 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.007 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion: 43 Resp: 1951
Ion Ratio Lower Upper
43 100
74 21.4 19.4 29.2

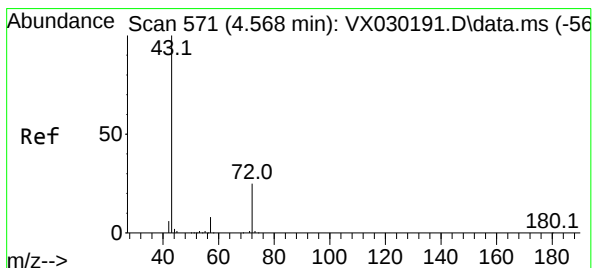
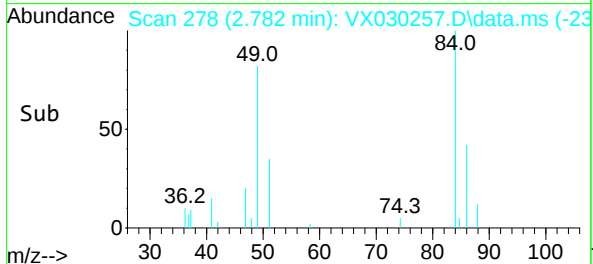
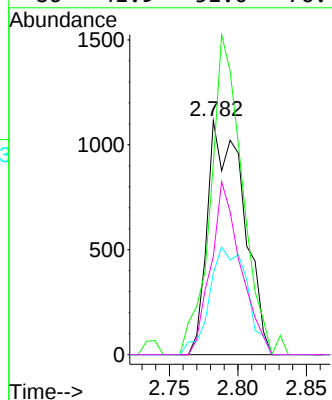
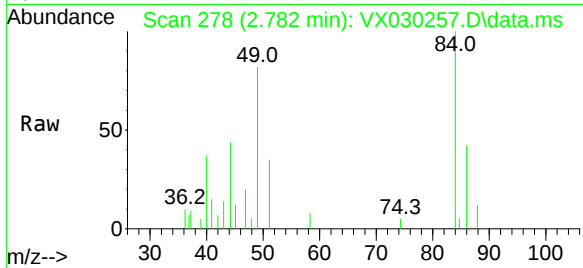




#20
Methylene Chloride
Concen: Below Cal
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

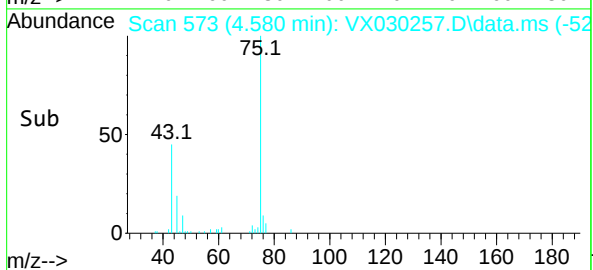
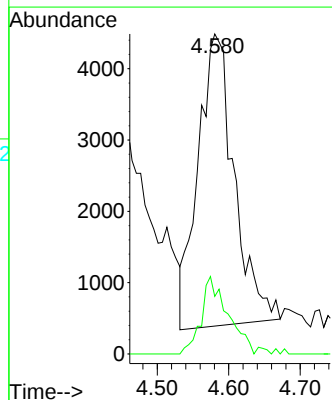
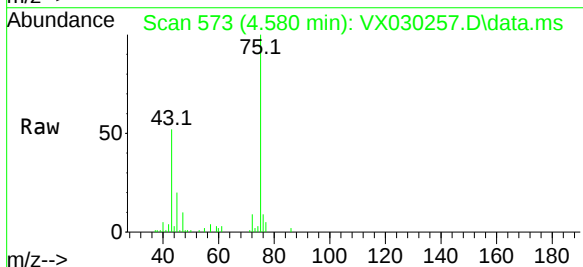
Instrument :
MSVOA_X
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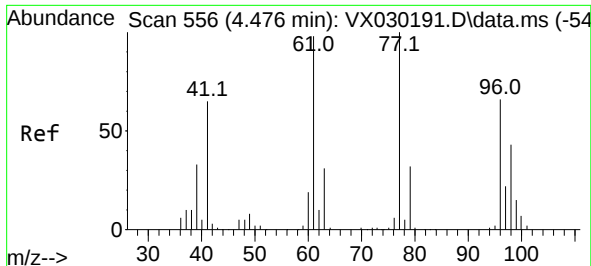
Tgt Ion:	84	Resp:	2046
Ion	Ratio	Lower	Upper
84	100		
49	81.7	93.8	140.6#
51	34.8	29.4	44.0
86	41.9	51.0	76.4#



#25
2-Butanone
Concen: 6.218 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.013 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion:	43	Resp:	14390
Ion	Ratio	Lower	Upper
43	100		
72	20.2	21.7	32.5#





#26

2,2-Dichloropropane

Concen: 0.385 ug/l

RT: 4.580 min Scan# 51

Delta R.T. 0.104 min

Lab File: VX030257.D

Acq: 28 Jul 2022 02:00

Instrument :

MSVOA_X

ClientSampleId :

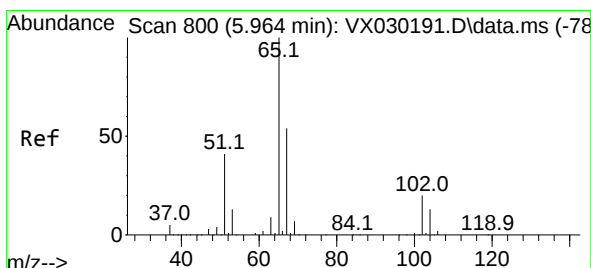
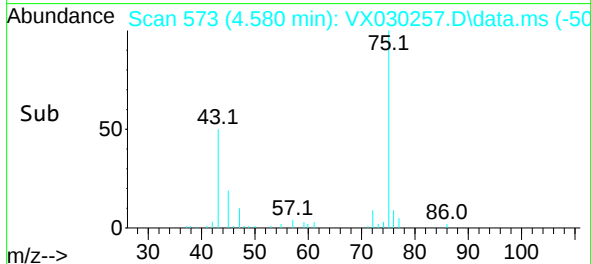
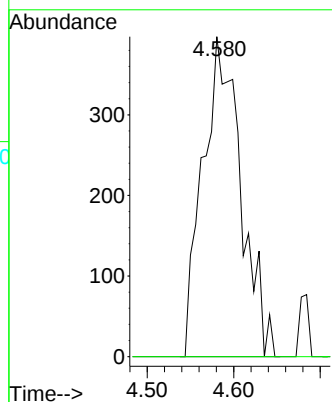
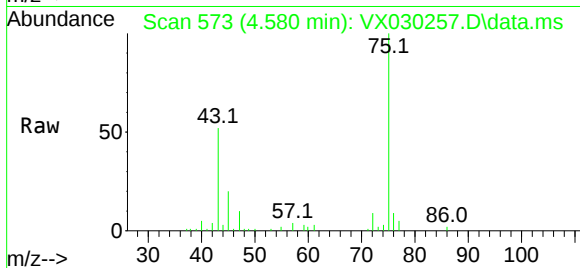
61422-D

Tgt Ion: 77 Resp: 1209

Ion Ratio Lower Upper

77 100

97 0.0 13.0 39.0#



#33

1,2-Dichloroethane-d4

Concen: 55.716 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX030257.D

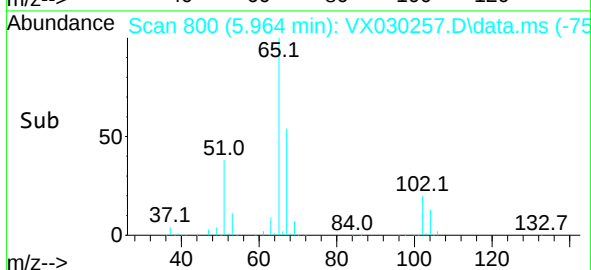
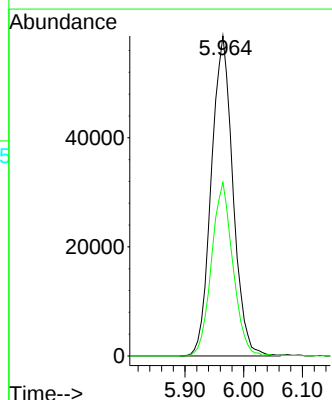
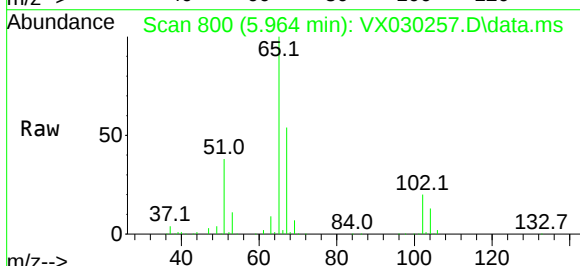
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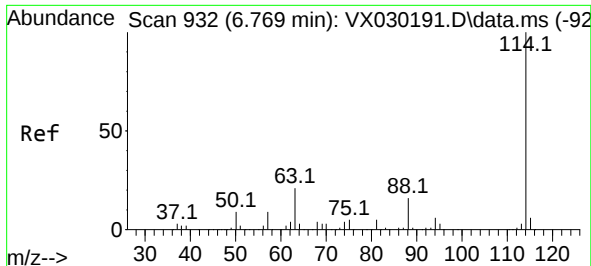
Tgt Ion: 65 Resp: 149862

Ion Ratio Lower Upper

65 100

67 53.6 0.0 109.6

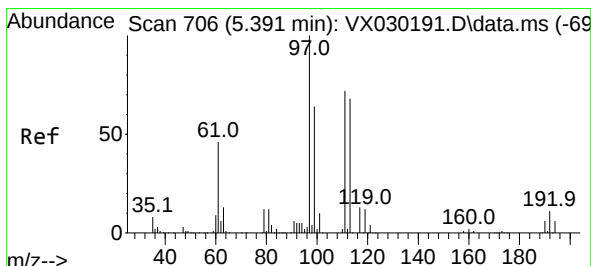
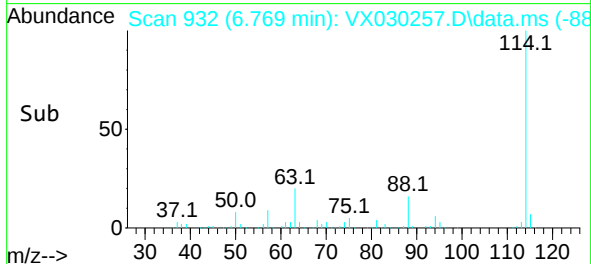
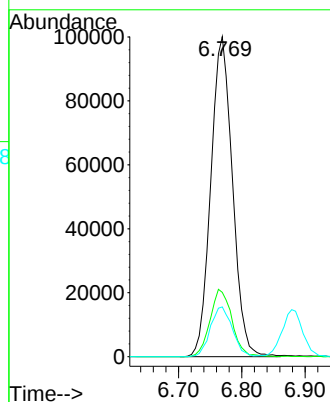
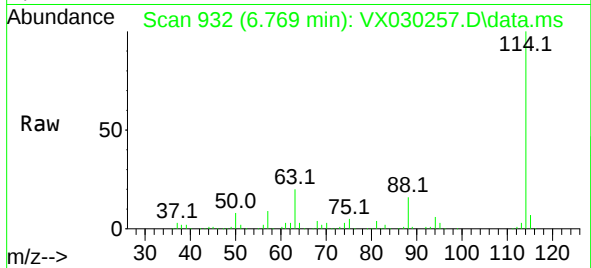




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

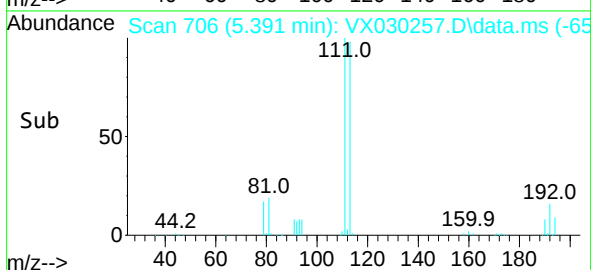
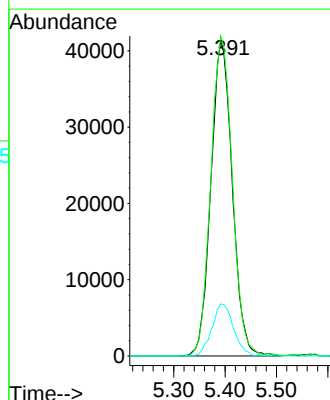
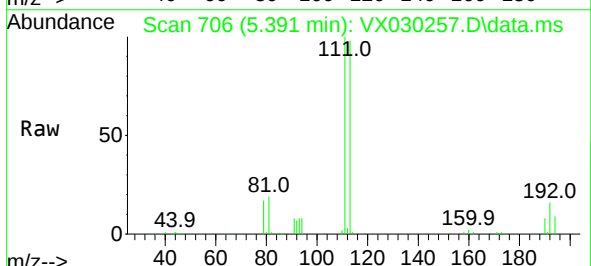
Instrument :
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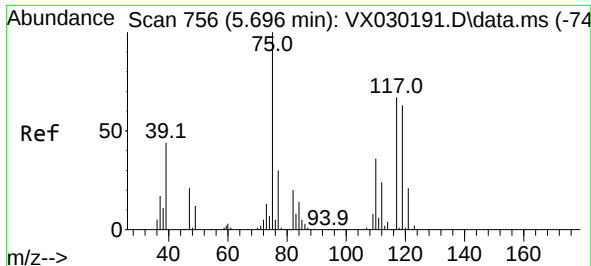
Tgt Ion:114 Resp: 237867
Ion Ratio Lower Upper
114 100
63 20.1 0.0 38.4
88 15.5 0.0 31.8



#35
Dibromofluoromethane
Concen: 52.365 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion:113 Resp: 119071
Ion Ratio Lower Upper
113 100
111 102.4 83.2 124.8
192 16.7 14.8 22.2





#36

1,1-Dichloropropene

Concen: 3.773 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX030257.D

Acq: 28 Jul 2022 02:00

Instrument :

MSVOA_X

ClientSampleId :

61422-D

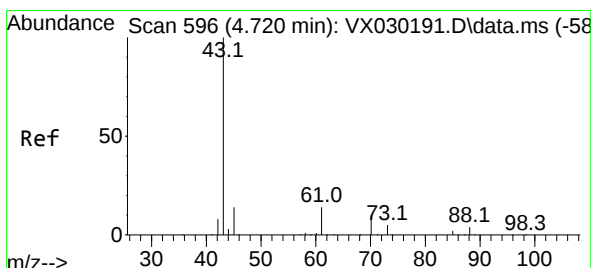
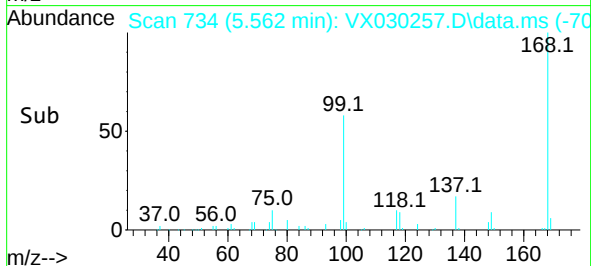
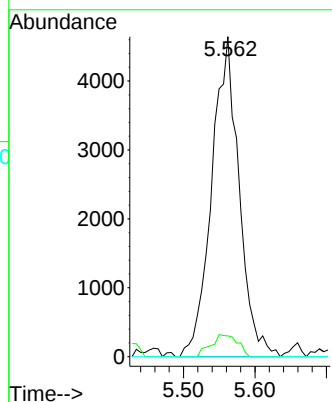
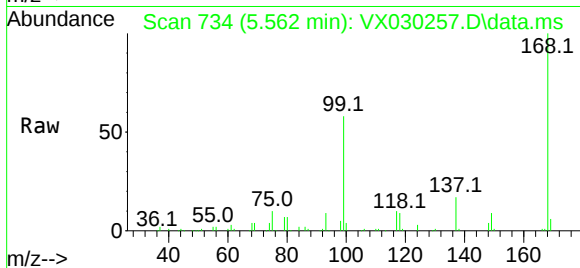
Tgt Ion: 75 Resp: 12346

Ion Ratio Lower Upper

75 100

110 6.7 19.3 57.9#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 2.967 ug/l

RT: 4.580 min Scan# 573

Delta R.T. -0.139 min

Lab File: VX030257.D

Acq: 28 Jul 2022 02:00

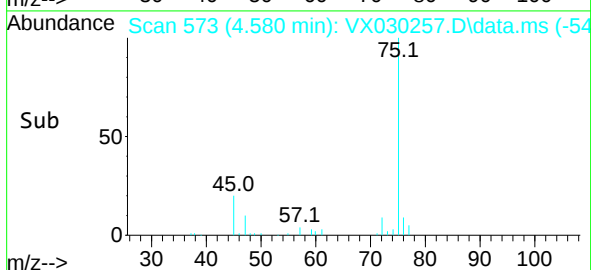
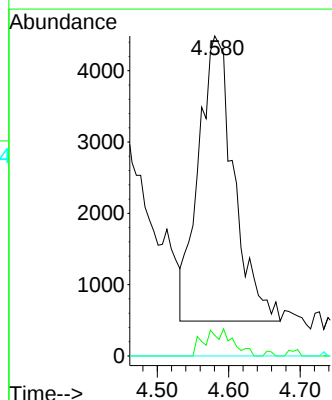
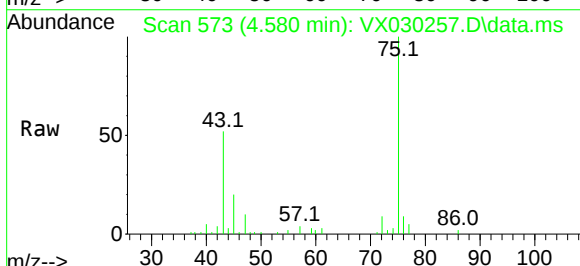
Tgt Ion: 43 Resp: 13750

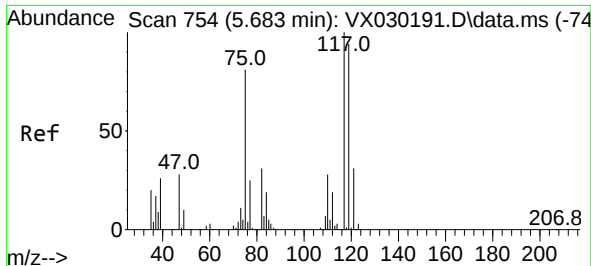
Ion Ratio Lower Upper

43 100

61 4.0 11.7 17.5#

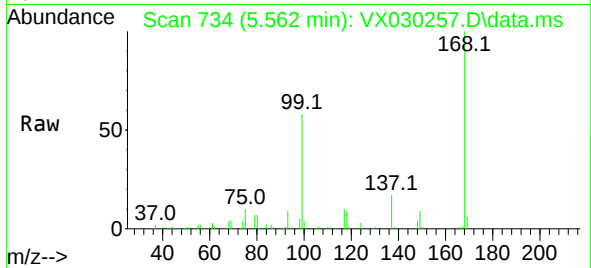
70 0.0 9.3 13.9#



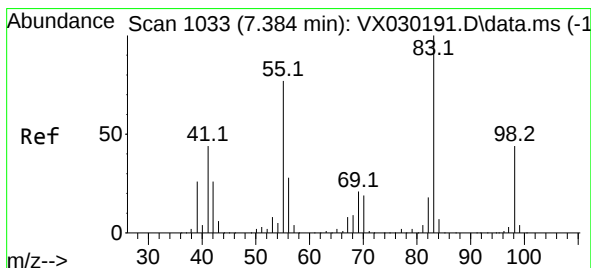
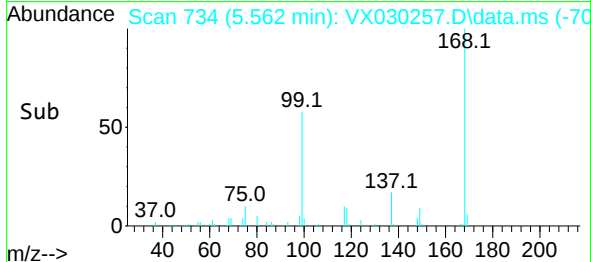
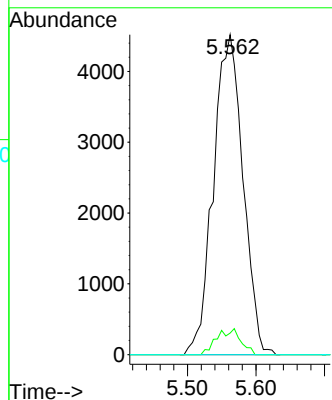


#38
Carbon Tetrachloride
Concen: 4.439 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.121 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Instrument :
MSVOA_X
ClientSampleId :
61422-D

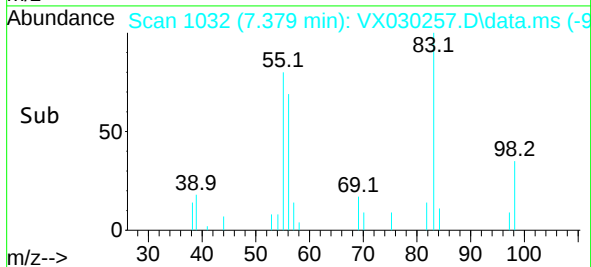
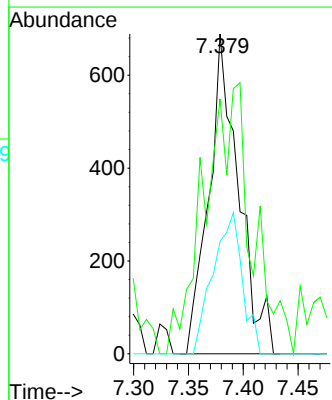
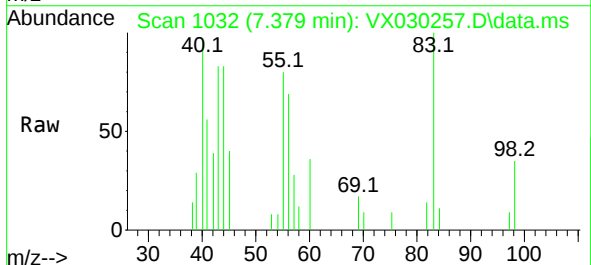


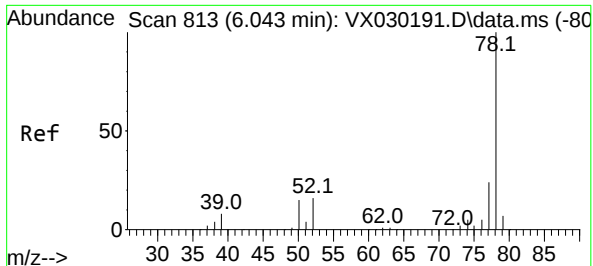
Tgt Ion:117 Resp: 13561
Ion Ratio Lower Upper
117 100
119 6.7 74.1 111.1#
121 0.0 25.8 38.8#



#39
Methylcyclohexane
Concen: 0.309 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. -0.005 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion: 83 Resp: 1306
Ion Ratio Lower Upper
83 100
55 72.0 57.7 86.5
98 35.1 36.5 54.7#

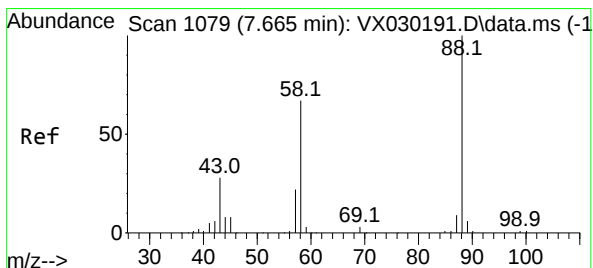
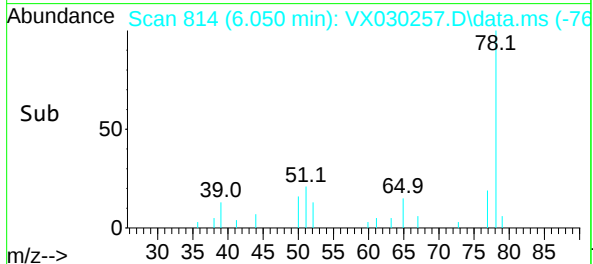
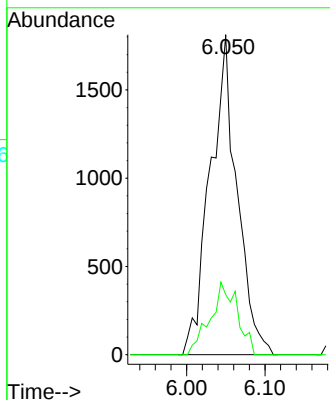
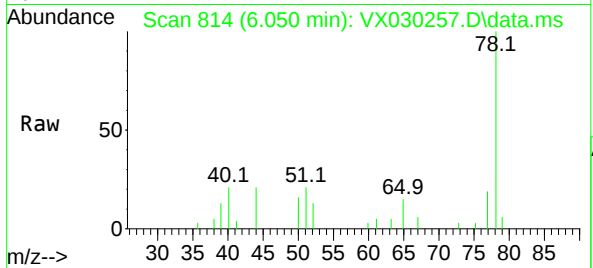




#40
Benzene
Concen: 0.421 ug/l
RT: 6.050 min Scan# 813
Delta R.T. 0.007 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

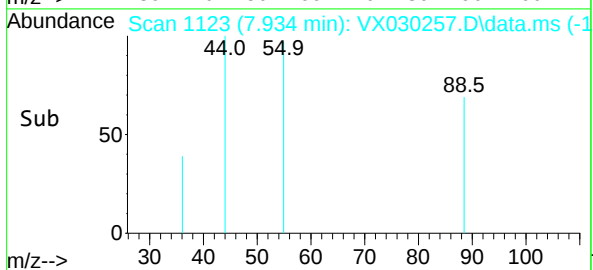
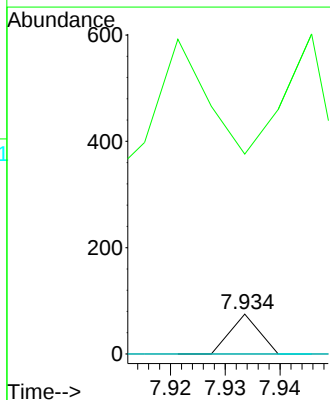
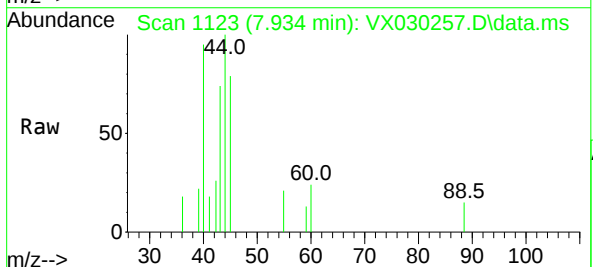
Instrument :
MSVOA_X
ClientSampleId :
61422-D

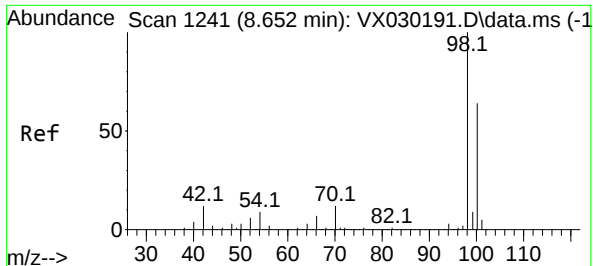
Tgt Ion: 78 Resp: 4338
Ion Ratio Lower Upper
78 100
77 18.8 18.0 27.0



#49
1,4-Dioxane
Concen: 0.350 ug/l
RT: 7.934 min Scan# 1123
Delta R.T. 0.269 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion: 88 Resp: 27
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.8#
58 0.0 53.8 80.6#

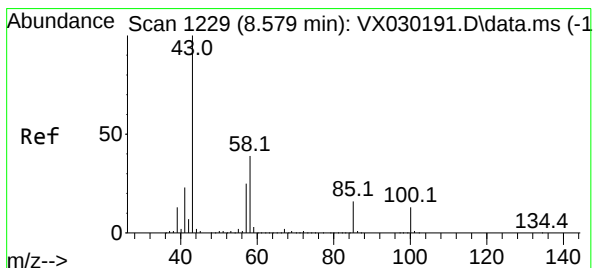
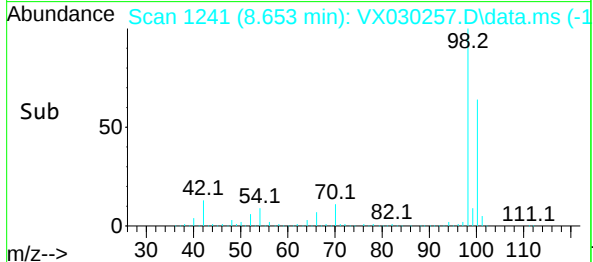
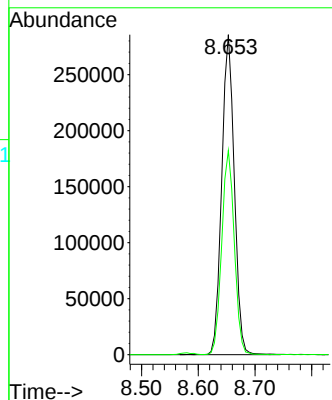
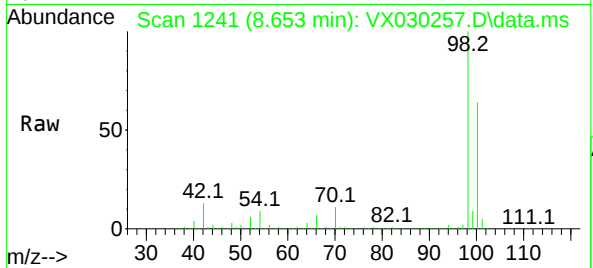




#50
Toluene-d8
Concen: 49.817 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.001 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

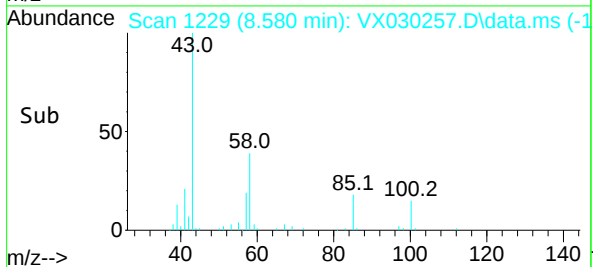
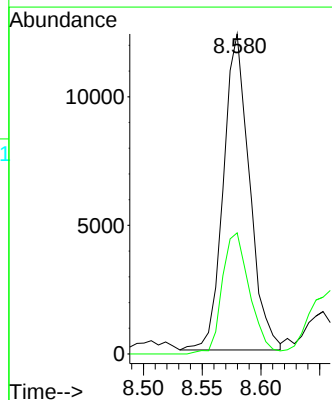
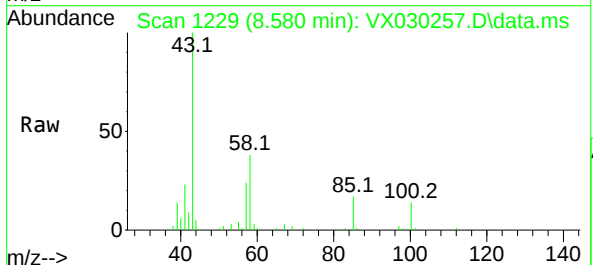
Instrument :
MSVOA_X
ClientSampleId :
61422-D

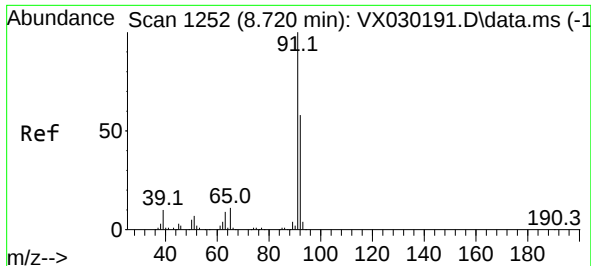
Tgt Ion: 98 Resp: 438689
Ion Ratio Lower Upper
98 100
100 63.6 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 4.131 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.001 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion: 43 Resp: 19051
Ion Ratio Lower Upper
43 100
58 40.1 31.4 47.2

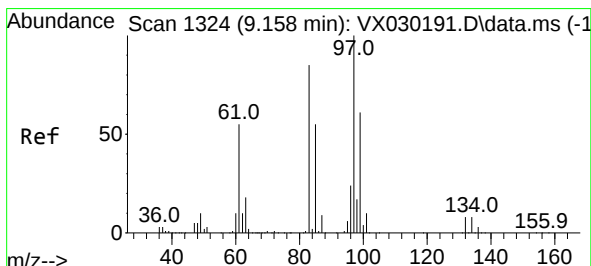
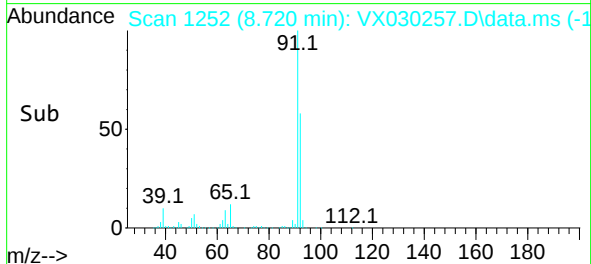
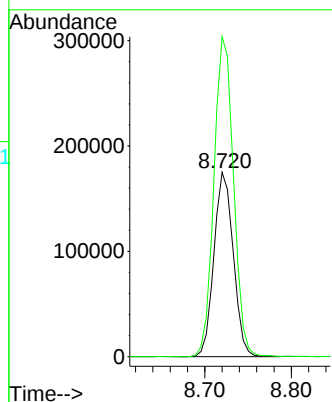
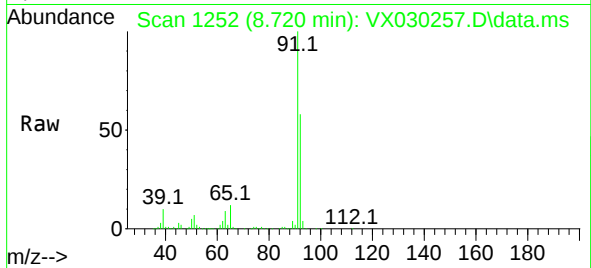




#52
Toluene
Concen: 43.228 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

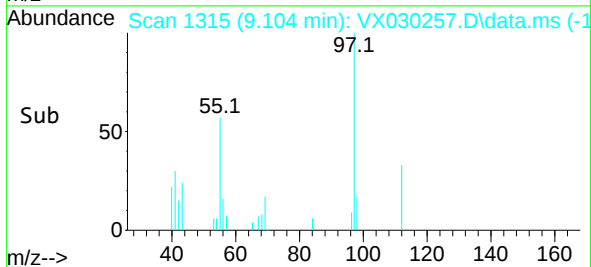
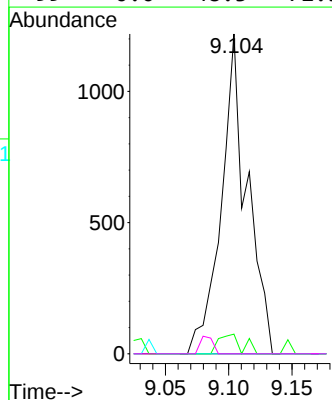
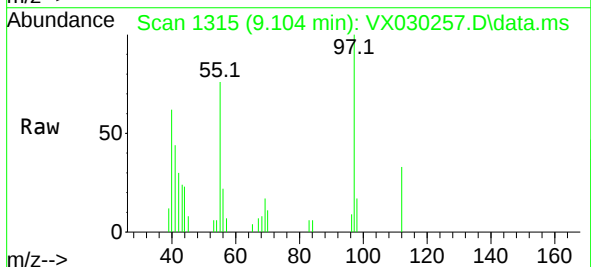
Instrument :
MSVOA_X
ClientSampleId :
61422-D

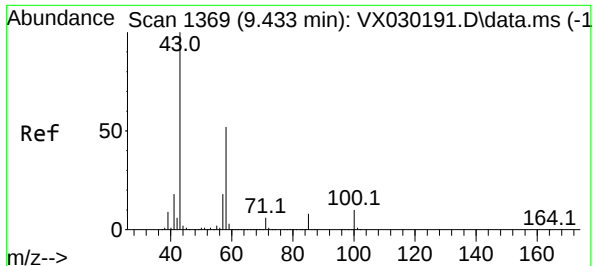
Tgt Ion: 92 Resp: 271542
Ion Ratio Lower Upper
92 100
91 175.9 139.2 208.8



#55
1,1,2-Trichloroethane
Concen: 0.646 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.054 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion: 97 Resp: 1729
Ion Ratio Lower Upper
97 100
83 6.2 68.9 103.3#
85 0.0 44.0 66.0#
99 0.0 48.3 72.5#





#59

2-Hexanone

Concen: 1.275 ug/l

RT: 9.433 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX030257.D

Acq: 28 Jul 2022 02:00

Instrument :

MSVOA_X

ClientSampleId :

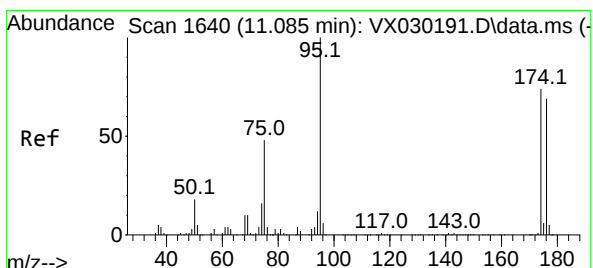
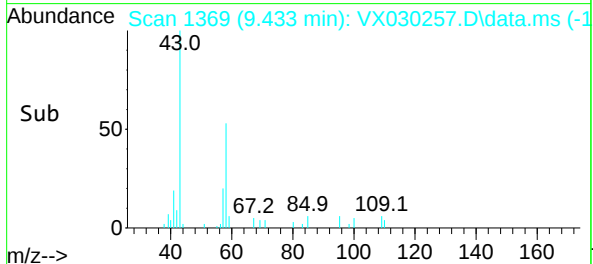
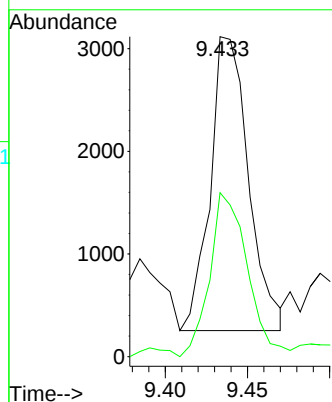
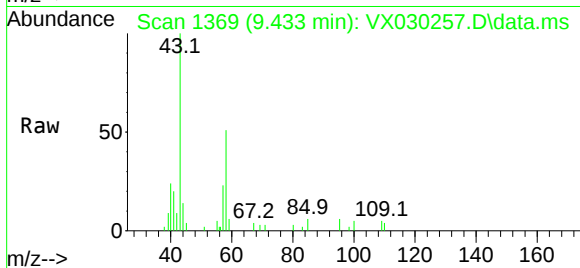
61422-D

Tgt Ion: 43 Resp: 4638

Ion Ratio Lower Upper

43 100

58 54.6 27.6 82.8



#62

4-Bromofluorobenzene

Concen: 49.440 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.000 min

Lab File: VX030257.D

Acq: 28 Jul 2022 02:00

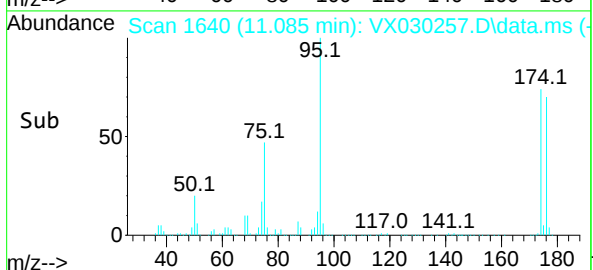
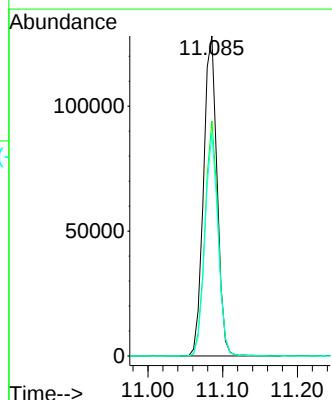
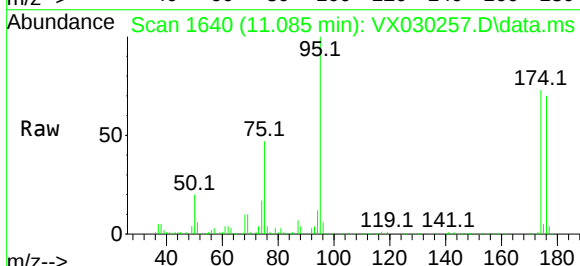
Tgt Ion: 95 Resp: 161575

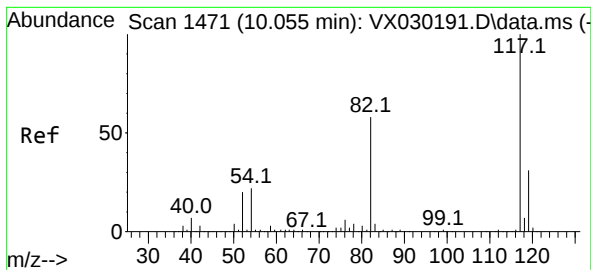
Ion Ratio Lower Upper

95 100

174 71.5 0.0 149.0

176 67.1 0.0 146.0

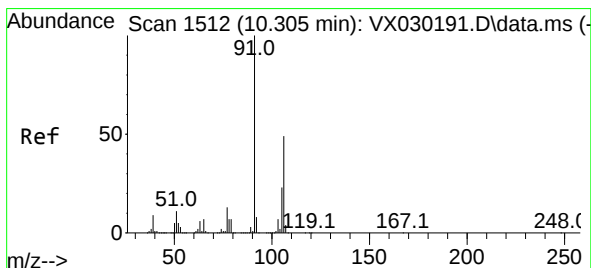
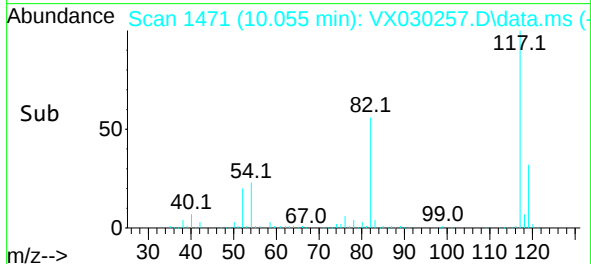
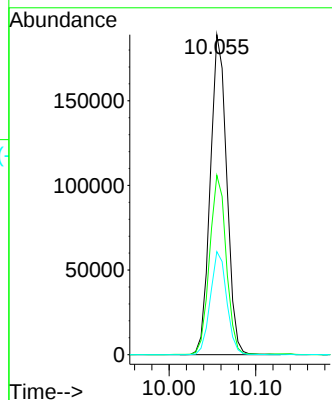
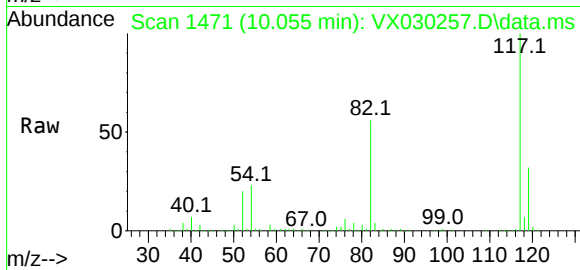




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

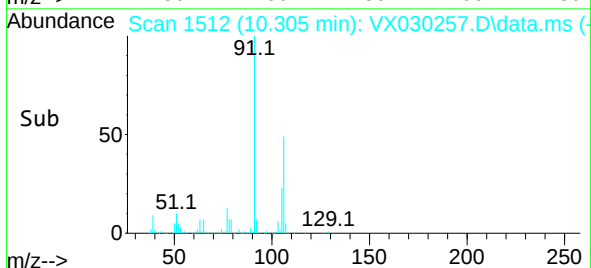
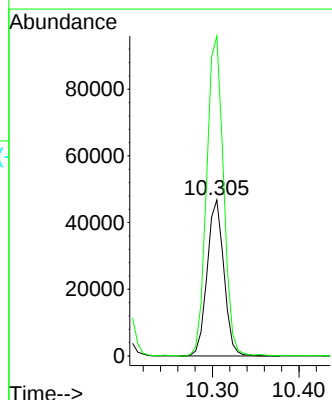
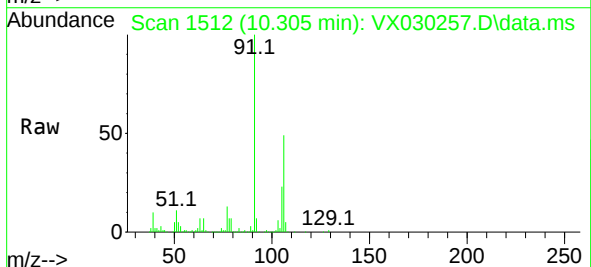
Instrument :
MSVOA_X
ClientSampleId :
61422-D

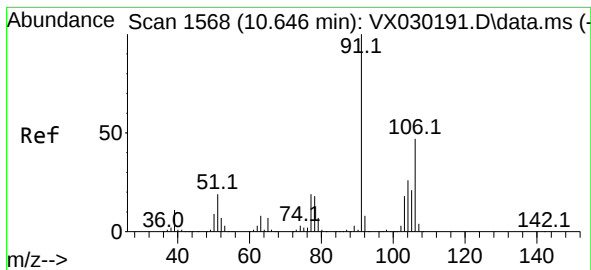
Tgt Ion:117 Resp: 249440
Ion Ratio Lower Upper
117 100
82 55.9 42.7 64.1
119 32.2 25.4 38.2



#68
m/p-Xylenes
Concen: 13.643 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion:106 Resp: 62623
Ion Ratio Lower Upper
106 100
91 207.5 158.2 237.4

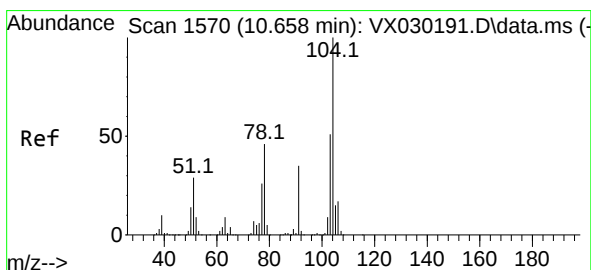
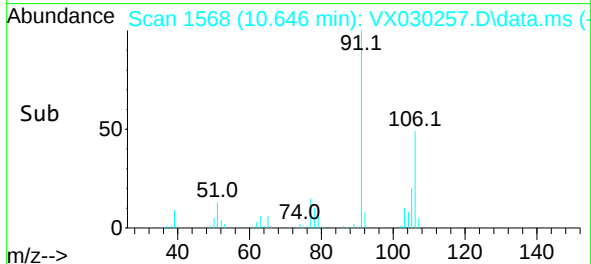
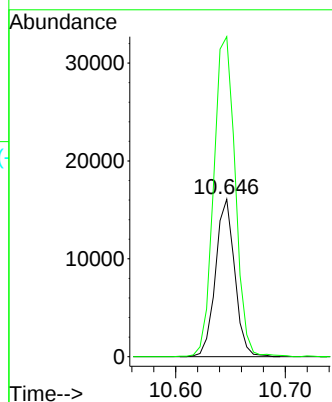
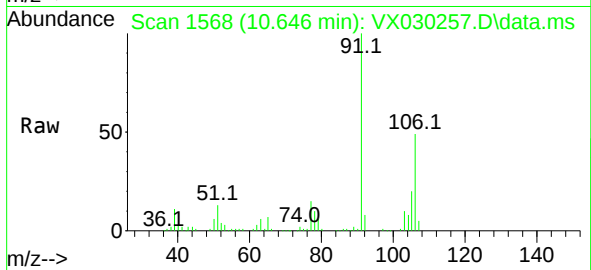




#69
o-Xylene
Concen: 4.333 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

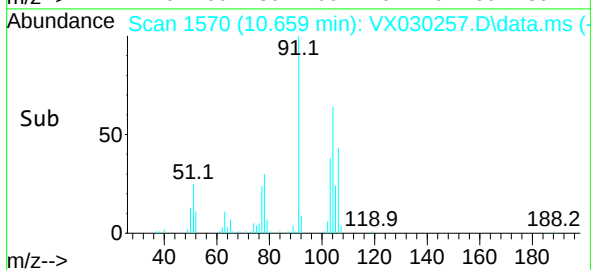
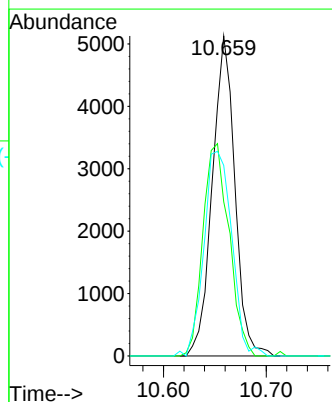
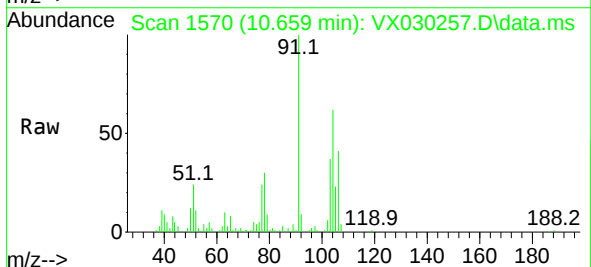
Instrument :
MSVOA_X
ClientSampleId :
61422-D

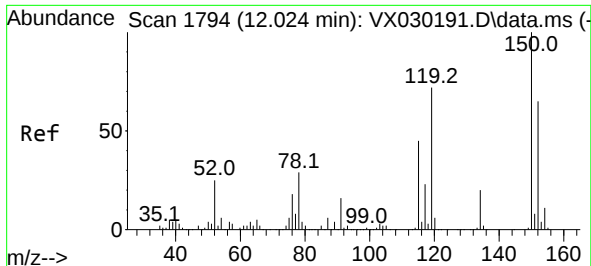
Tgt Ion:106 Resp: 19601
Ion Ratio Lower Upper
106 100
91 227.9 103.8 311.6



#70
Styrene
Concen: 1.050 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.001 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion:104 Resp: 7803
Ion Ratio Lower Upper
104 100
78 76.9 37.8 56.8#
103 79.2 44.5 66.7#

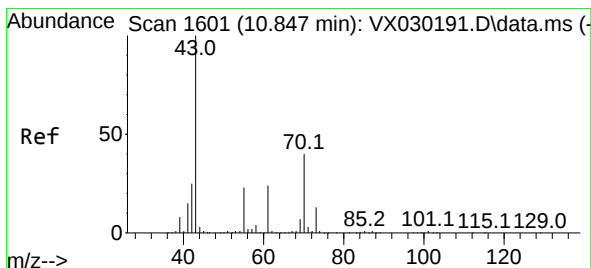
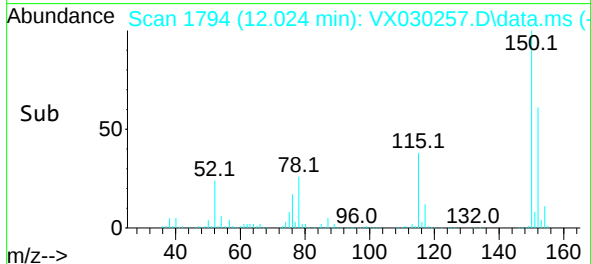
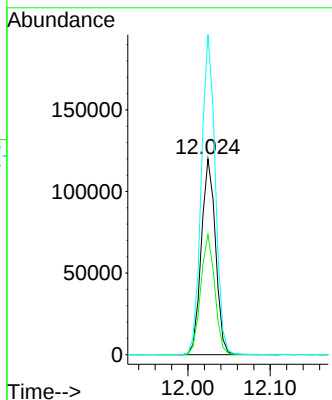
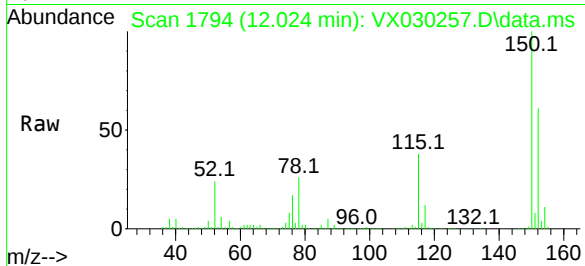




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

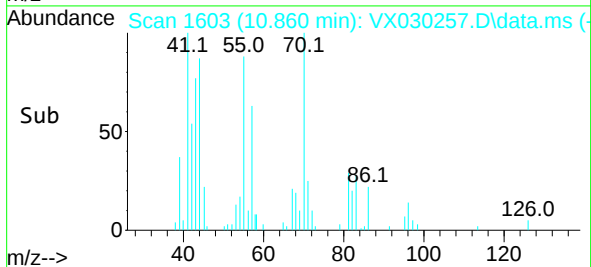
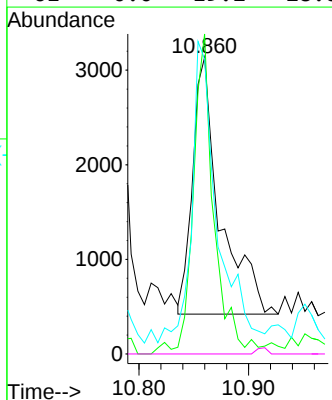
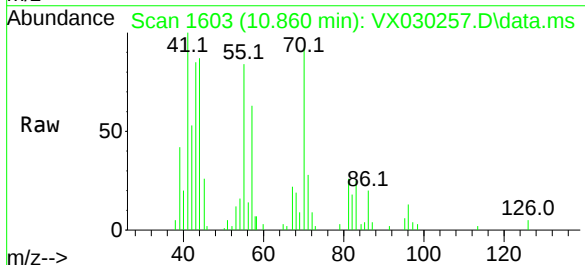
Instrument :
MSVOA_X
ClientSampleId :
61422-D

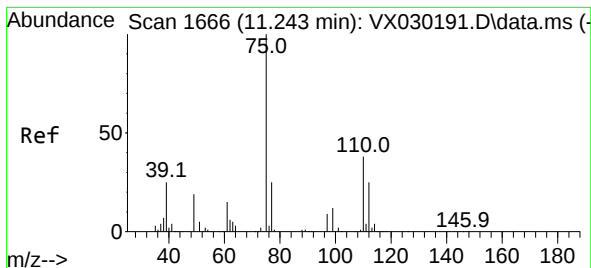
Tgt Ion:152 Resp: 144222
Ion Ratio Lower Upper
152 100
115 60.2 40.5 121.5
150 159.8 0.0 347.0



#74
N-ethyl acetate
Concen: 0.866 ug/l
RT: 10.860 min Scan# 1603
Delta R.T. 0.013 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion: 43 Resp: 4738
Ion Ratio Lower Upper
43 100
70 94.3 32.3 48.5#
55 109.4 18.4 27.6#
61 0.0 19.2 28.8#





#76

1,2,3-Trichloropropane

Concen: 21.142 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.164 min

Lab File: VX030257.D

Acq: 28 Jul 2022 02:00

Instrument :

MSVOA_X

ClientSampleId :

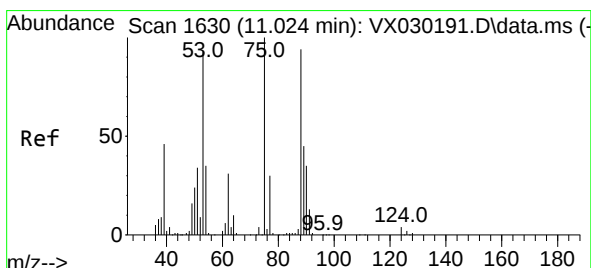
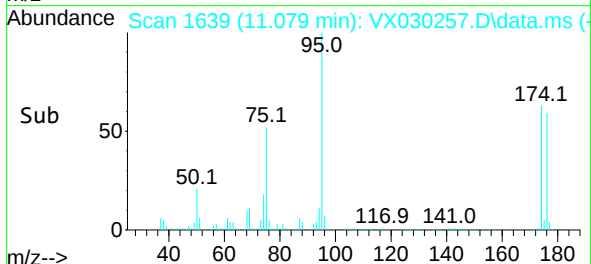
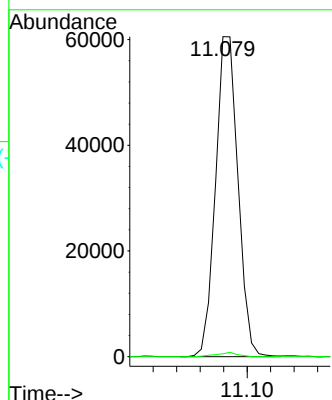
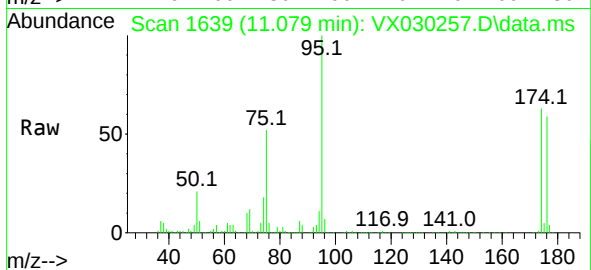
61422-D

Tgt Ion: 75 Resp: 80373

Ion Ratio Lower Upper

75 100

77 1.2 19.8 59.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.424 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.055 min

Lab File: VX030257.D

Acq: 28 Jul 2022 02:00

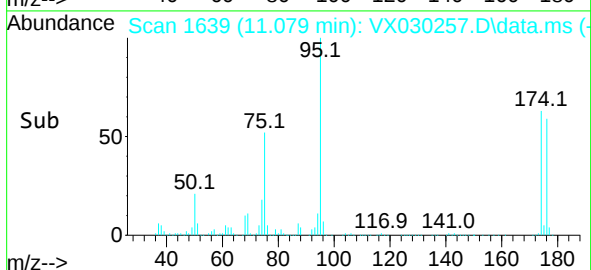
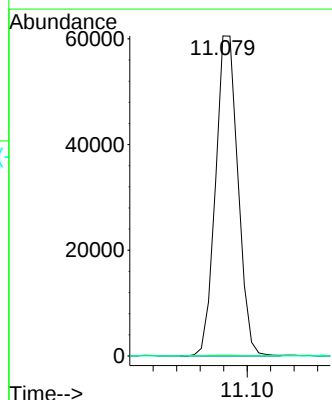
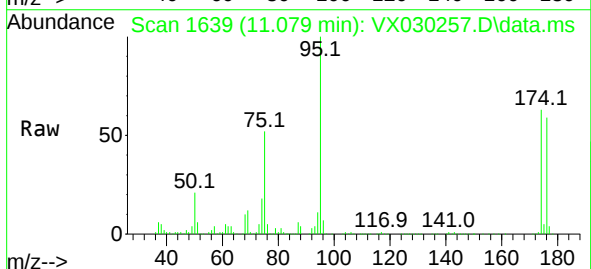
Tgt Ion: 75 Resp: 80373

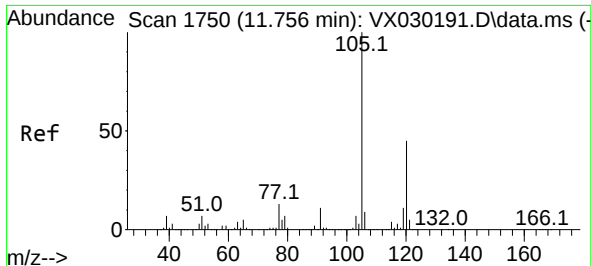
Ion Ratio Lower Upper

75 100

53 0.6 74.2 111.4#

89 0.0 34.8 52.2#

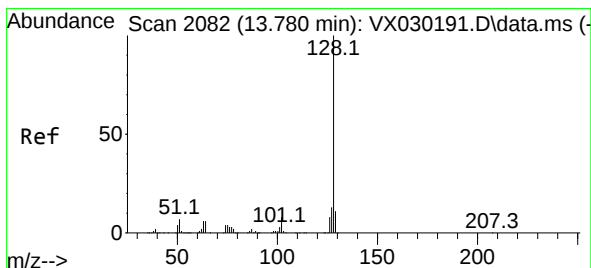
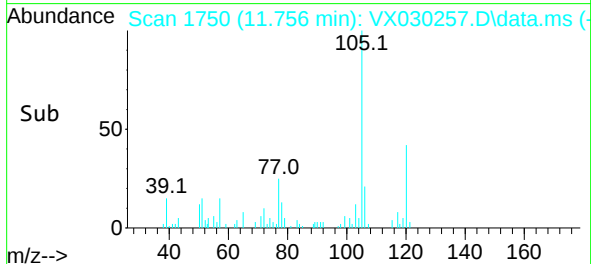
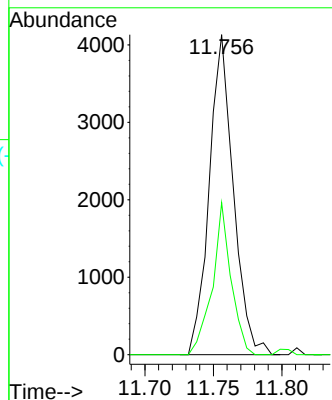
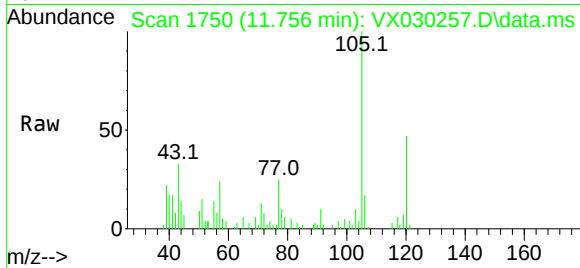




#84
1,2,4-Trimethylbenzene
Concen: 0.536 ug/l
RT: 11.756 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Instrument :
MSVOA_X
ClientSampleId :
61422-D

Tgt Ion:105 Resp: 5042
Ion Ratio Lower Upper
105 100
120 36.9 22.9 68.8



#95
Naphthalene
Concen: 1.571 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VX030257.D
Acq: 28 Jul 2022 02:00

Tgt Ion:128 Resp: 17949
Ion Ratio Lower Upper
128 100
127 14.2 10.2 15.2
129 12.2 8.6 13.0

