

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120622\
 Data File : VX033270.D
 Acq On : 06 Dec 2022 19:41
 Operator : JC/MD
 Sample : N5859-09RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 31910

Quant Time: Dec 07 01:36:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112222W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 22 13:58:46 2022
 Response via : Initial Calibration

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

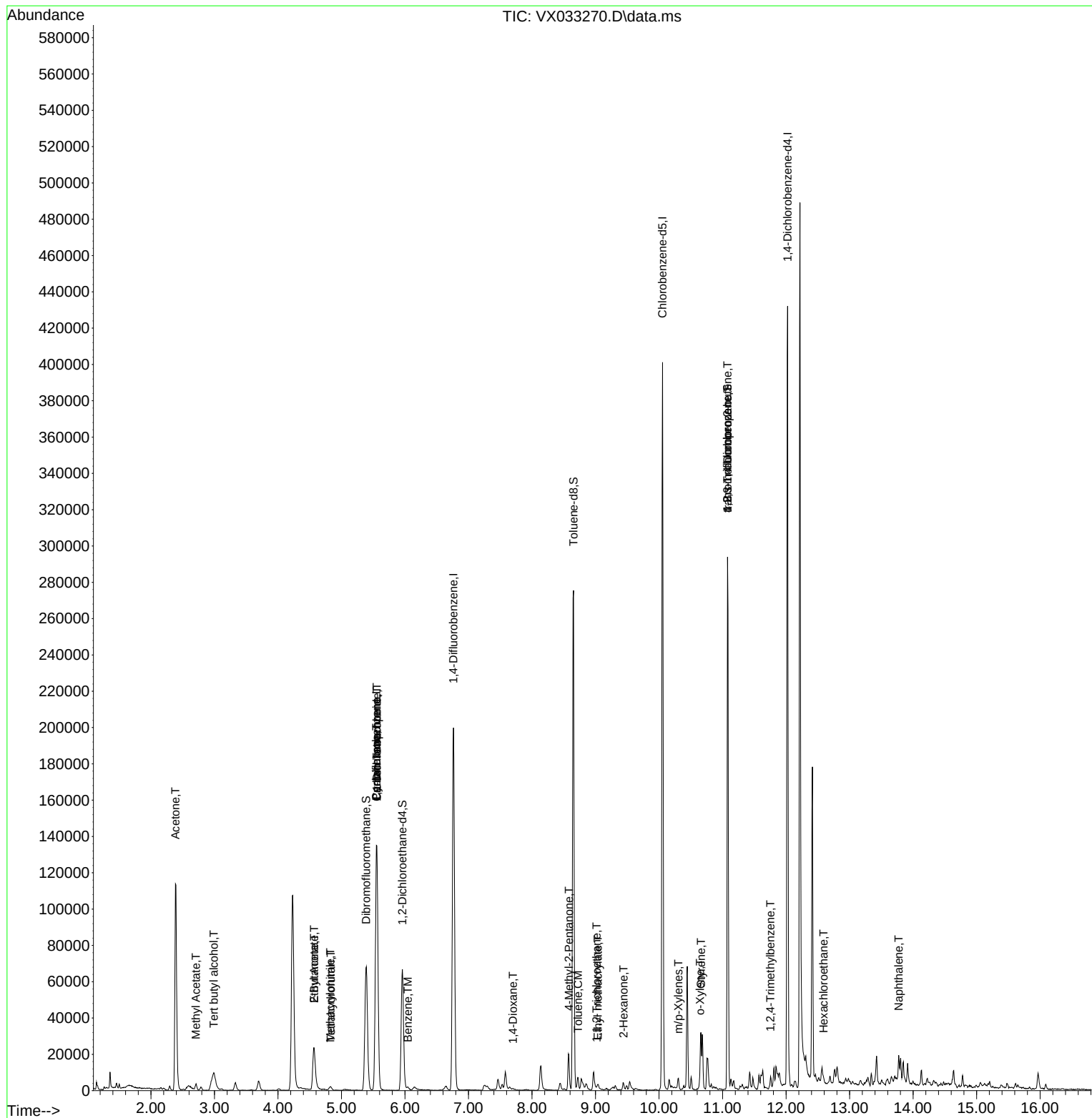
Internal Standards						
1) Pentafluorobenzene	5.550	168	131707	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	206504	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	182390	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	87466	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	67577	52.676	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.360%			
35) Dibromofluoromethane	5.385	113	60881	52.295	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.580%			
50) Toluene-d8	8.653	98	168295	47.957	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.920%			
62) 4-Bromofluorobenzene	11.079	95	75511	49.377	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.760%			
Target Compounds						
						Qvalue
11) Tert butyl alcohol	2.989	59	19498	95.897	ug/l	100
16) Acetone	2.386	43	141645	236.464	ug/l	99
18) Methyl Acetate	2.709	43	4045	2.439	ug/l	95
20) Methylene Chloride	2.794	84	550	Below Cal	#	91
25) 2-Butanone	4.568	43	41088	49.744	ug/l	99
29) Tetrahydrofuran	4.830	42	112	0.214	ug/l #	31
31) Cyclohexane	5.550	56	2681	1.290	ug/l #	19
36) 1,1-Dichloropropene	5.556	75	9605	5.160	ug/l #	51
37) Ethyl Acetate	4.568	43	41088	25.300	ug/l #	67
38) Carbon Tetrachloride	5.556	117	13750	6.658	ug/l #	16
40) Benzene	6.044	78	2135	0.409	ug/l	98
41) Methacrylonitrile	4.824	41	760	0.832	ug/l #	1
49) 1,4-Dioxane	7.702	88	393	15.443	ug/l #	24
51) 4-Methyl-2-Pentanone	8.580	43	12076	7.286	ug/l	97
52) Toluene	8.726	92	2632	0.767	ug/l	93
55) 1,1,2-Trichloroethane	9.019	97	293	0.210	ug/l #	15
56) Ethyl methacrylate	9.037	69	647	0.336	ug/l #	56
59) 2-Hexanone	9.439	43	2513	2.053	ug/l	96
68) m/p-Xylenes	10.305	106	1487	0.589	ug/l	94
69) o-Xylene	10.646	106	811	0.332	ug/l	98
70) Styrene	10.659	104	12290	3.074	ug/l	92
76) 1,2,3-Trichloropropane	11.079	75	40366	24.369	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	40366	79.210	ug/l #	6
84) 1,2,4-Trimethylbenzene	11.756	105	1918	0.366	ug/l	89
90) Hexachloroethane	12.591	117	469	0.539	ug/l #	12
95) Naphthalene	13.774	128	9415	1.683	ug/l	100

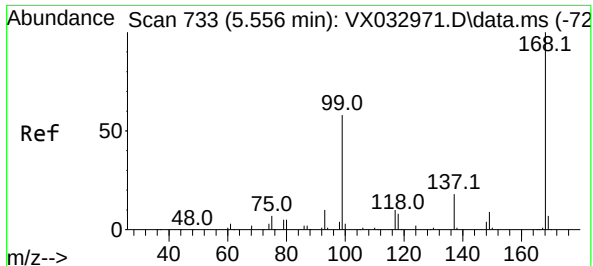
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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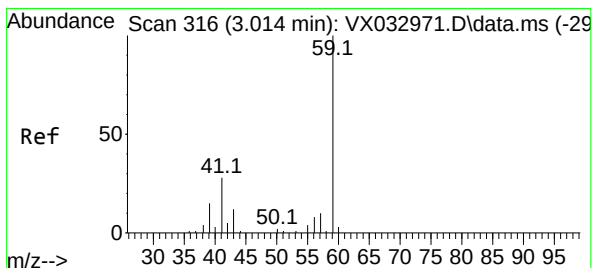
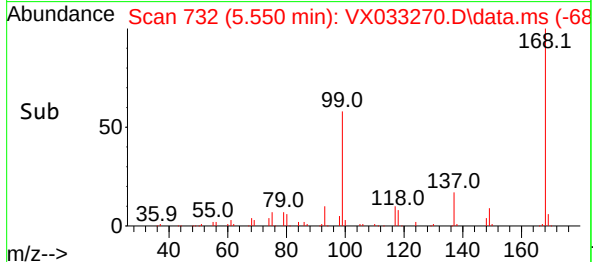
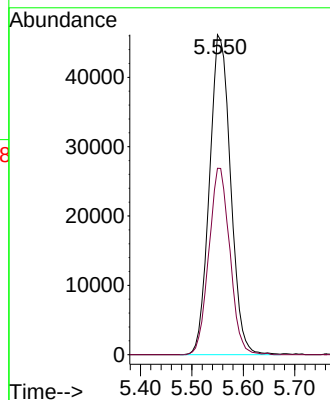
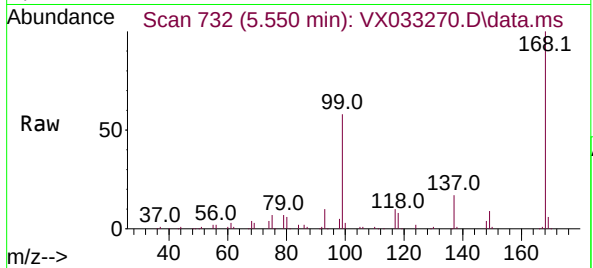




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

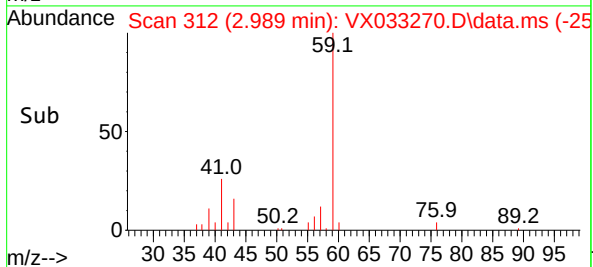
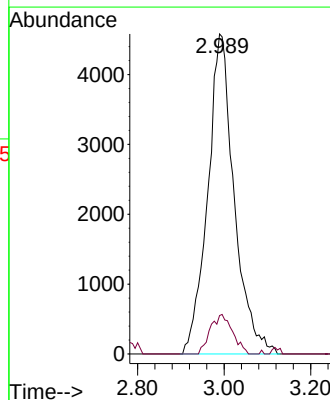
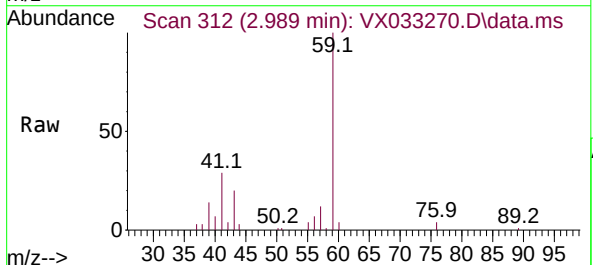
Instrument :
MSVOA_X
ClientSampleId :
31910

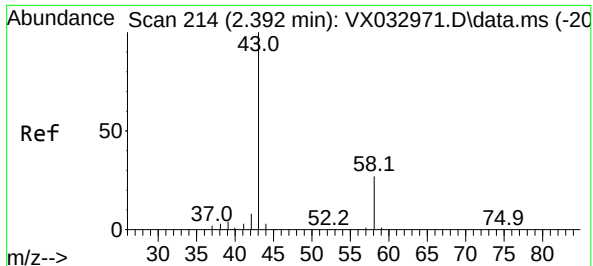
Tgt Ion:168 Resp: 131707
Ion Ratio Lower Upper
168 100
99 58.3 46.1 69.1



#11
Tert butyl alcohol
Concen: 95.897 ug/l
RT: 2.989 min Scan# 312
Delta R.T. 0.024 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion: 59 Resp: 19498
Ion Ratio Lower Upper
59 100
57 10.4 8.2 12.4

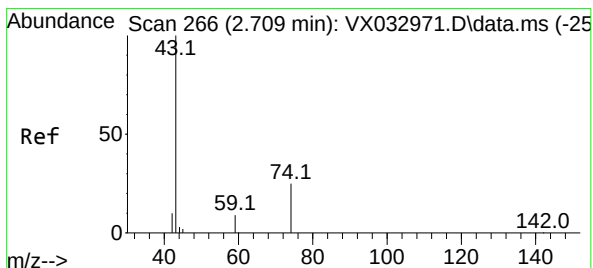
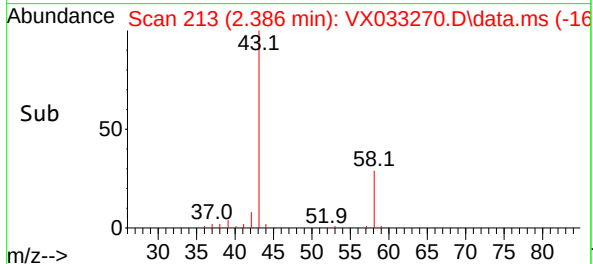
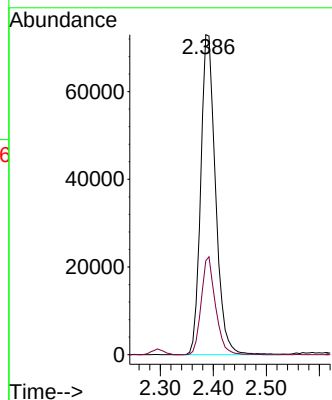
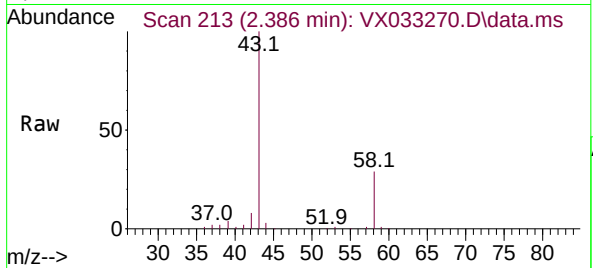




#16
Acetone
Concen: 236.464 ug/l
RT: 2.386 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

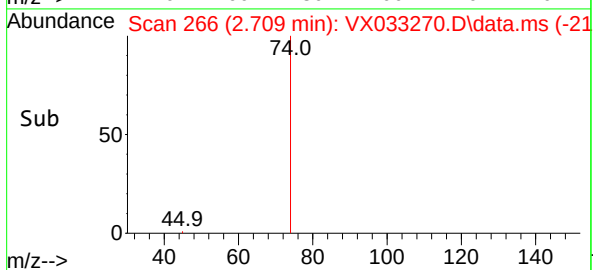
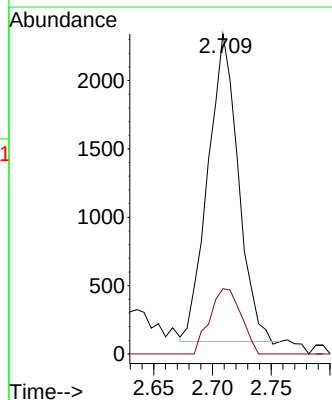
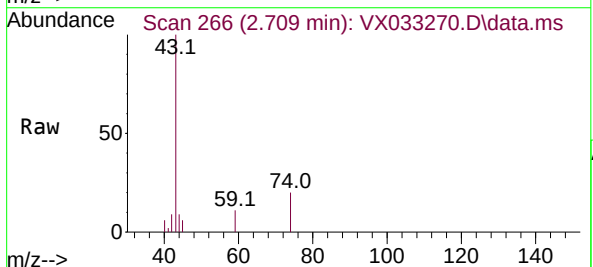
Instrument :
MSVOA_X
ClientSampleId :
31910

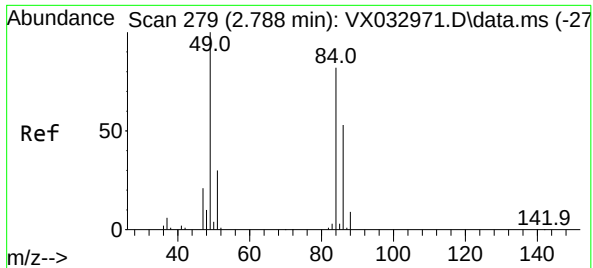
Tgt Ion: 43 Resp: 141645
Ion Ratio Lower Upper
43 100
58 29.4 23.8 35.8



#18
Methyl Acetate
Concen: 2.439 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion: 43 Resp: 4045
Ion Ratio Lower Upper
43 100
74 21.8 19.4 29.0

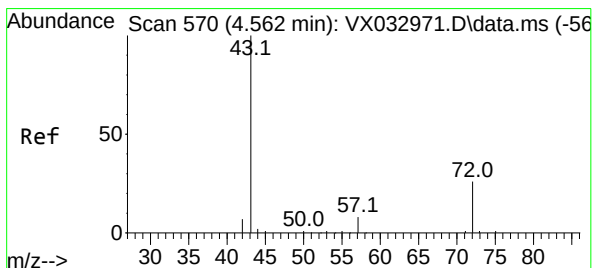
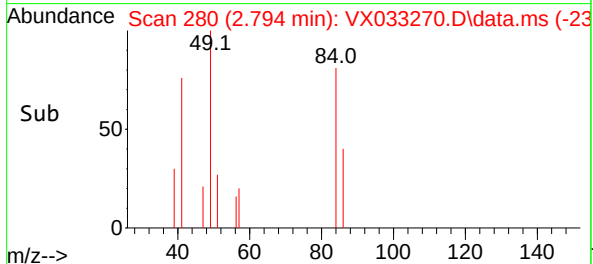
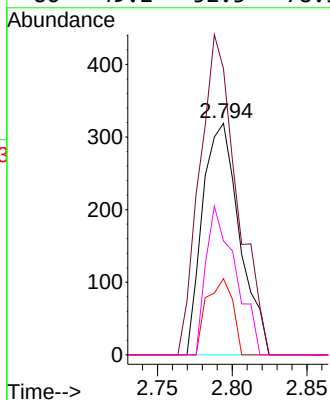
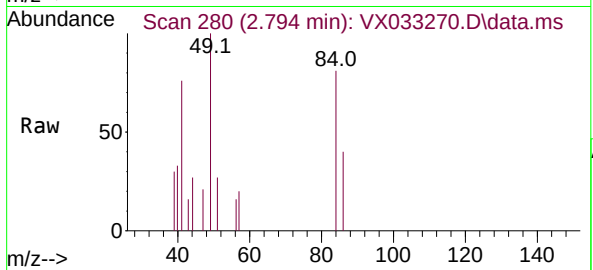




#20
Methylene Chloride
Concen: Below Cal
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

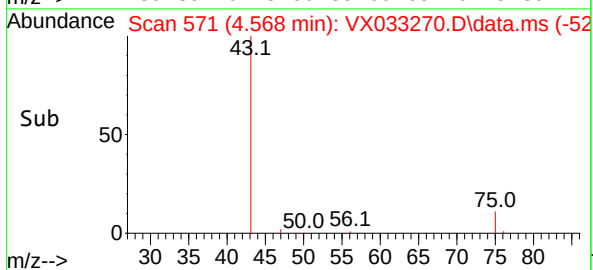
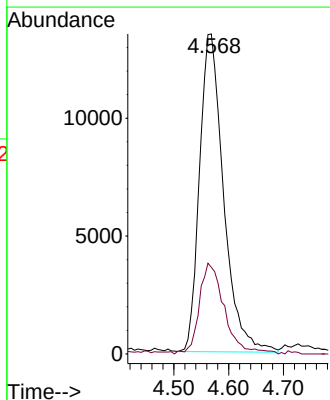
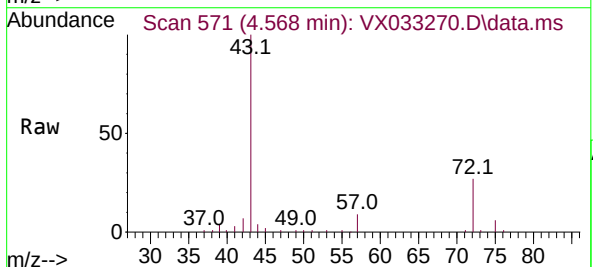
Instrument :
MSVOA_X
ClientSampleId :
31910

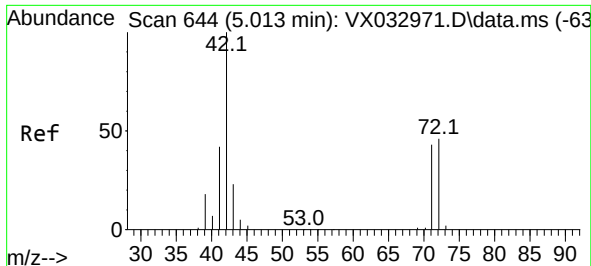
Tgt Ion:	84	Resp:	550
Ion	Ratio	Lower	Upper
84	100		
49	123.5	101.0	151.6
51	32.9	31.1	46.7
86	49.2	52.3	78.5



#25
2-Butanone
Concen: 49.744 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.012 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion:	43	Resp:	41088
Ion	Ratio	Lower	Upper
43	100		
72	27.3	22.2	33.2





#29

Tetrahydrofuran

Concen: 0.214 ug/l

RT: 4.830 min Scan# 61

Delta R.T. -0.171 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

Instrument :

MSVOA_X

ClientSampleId :

31910

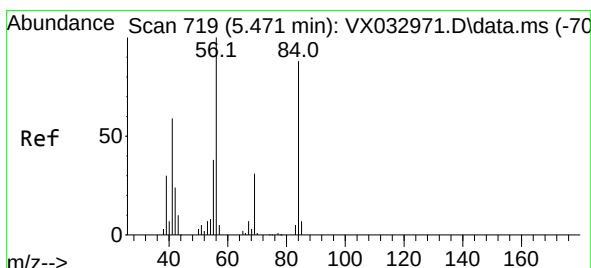
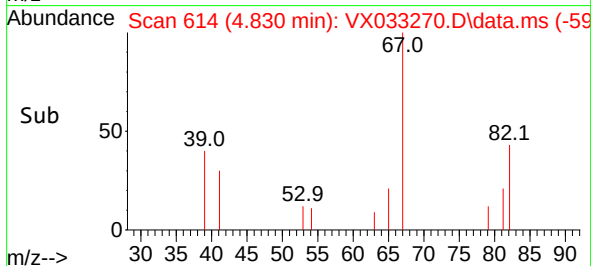
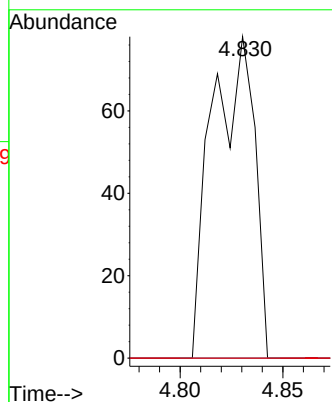
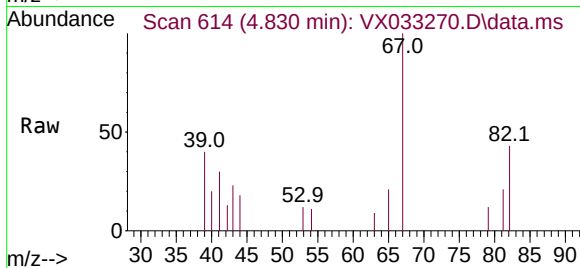
Tgt Ion: 42 Resp: 112

Ion Ratio Lower Upper

42 100

72 0.0 37.6 56.4#

71 0.0 34.7 52.1#



#31

Cyclohexane

Concen: 1.290 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.080 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

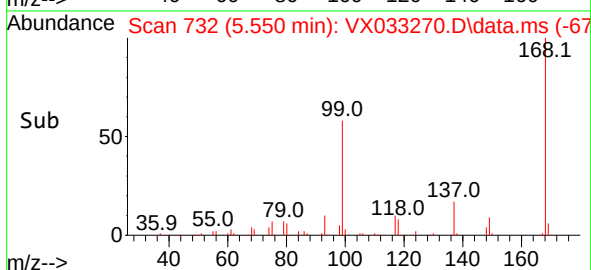
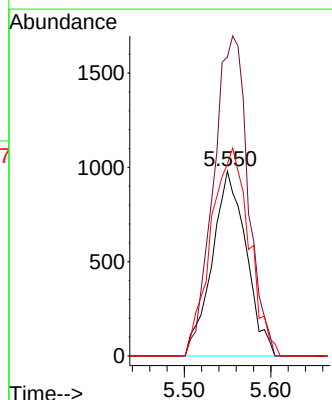
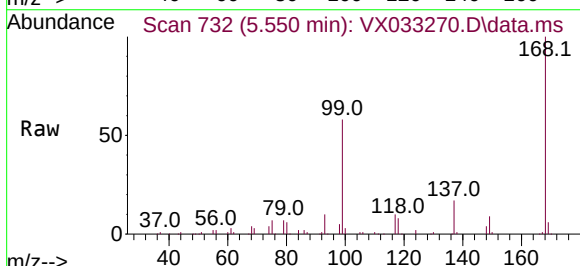
Tgt Ion: 56 Resp: 2681

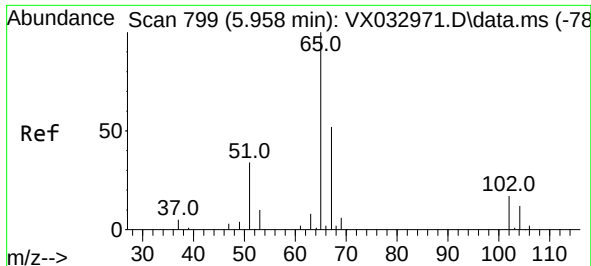
Ion Ratio Lower Upper

56 100

69 161.7 24.1 36.1#

84 103.8 66.9 100.3#





#33

1,2-Dichloroethane-d4

Concen: 52.676 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

Instrument :

MSVOA_X

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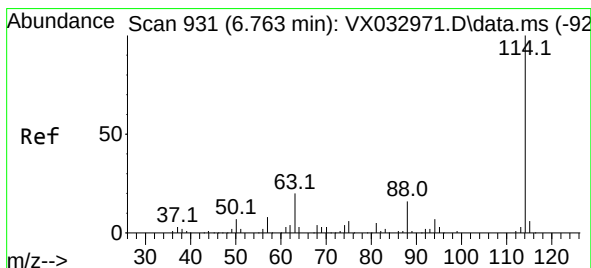
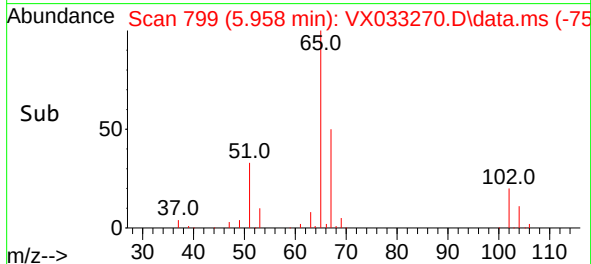
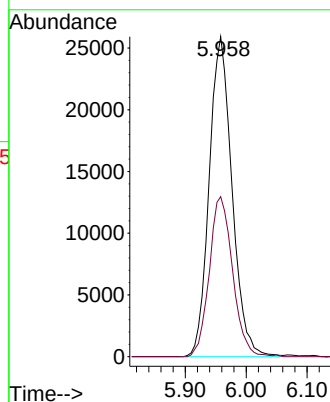
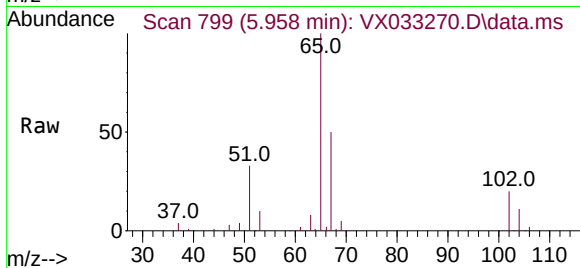
31910

Tgt Ion: 65 Resp: 67577

Ion Ratio Lower Upper

65 100

67 51.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

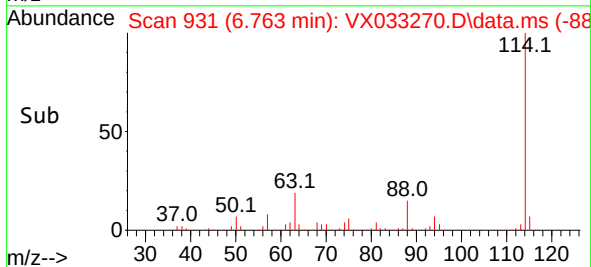
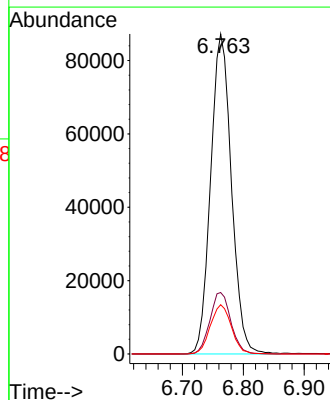
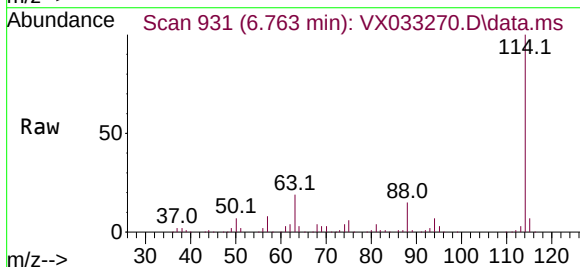
Tgt Ion: 114 Resp: 206504

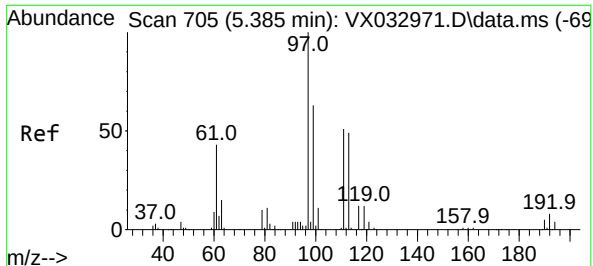
Ion Ratio Lower Upper

114 100

63 19.2 0.0 41.6

88 15.4 0.0 33.4

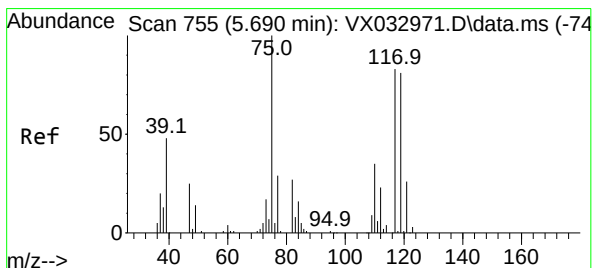
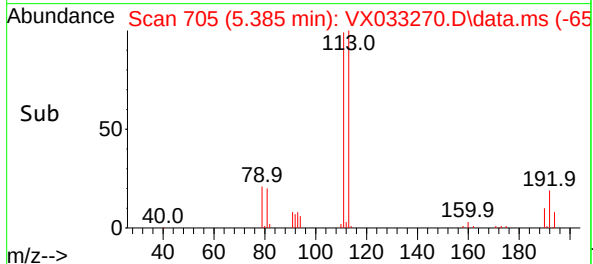
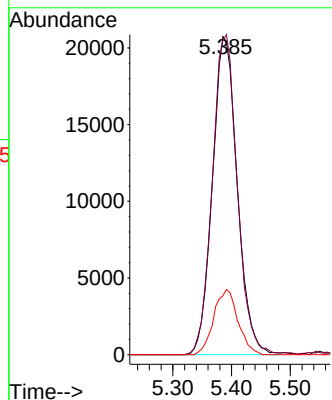
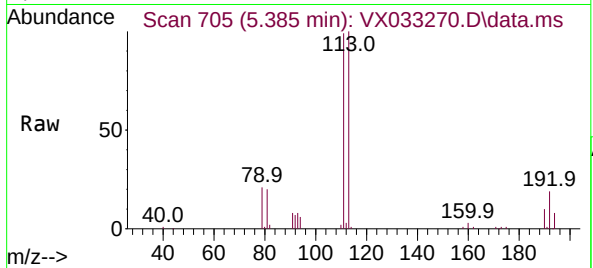




#35
Dibromofluoromethane
Concen: 52.295 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

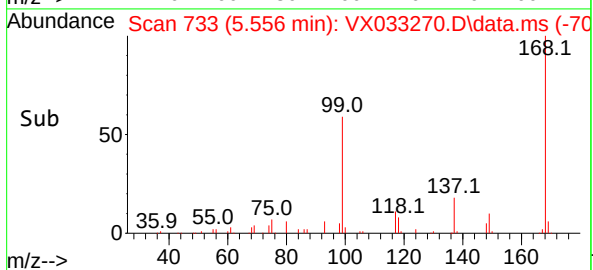
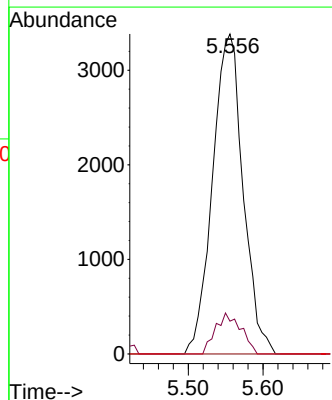
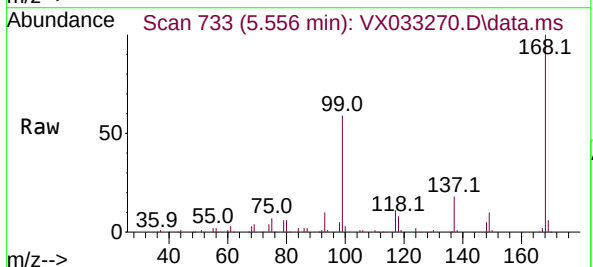
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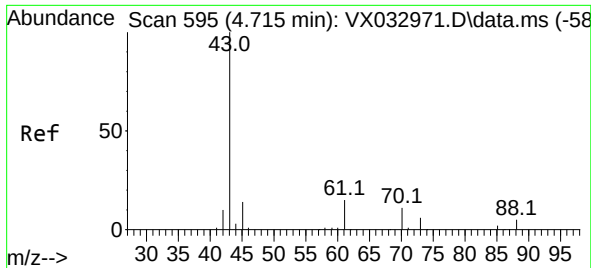
Tgt Ion:113 Resp: 60881
Ion Ratio Lower Upper
113 100
111 101.1 82.4 123.6
192 19.9 15.4 23.2



#36
1,1-Dichloropropene
Concen: 5.160 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion: 75 Resp: 9605
Ion Ratio Lower Upper
75 100
110 10.7 18.4 55.2#
77 0.0 24.5 36.7#





#37

Ethyl Acetate

Concen: 25.300 ug/l

RT: 4.568 min Scan# 51

Delta R.T. -0.147 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

Instrument :

MSVOA_X

ClientSampleId :

31910

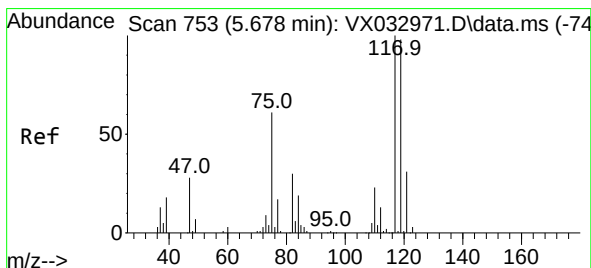
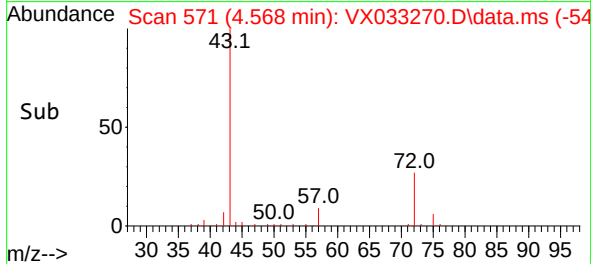
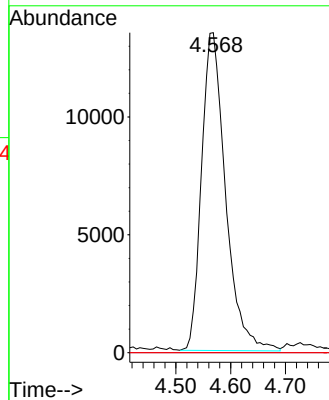
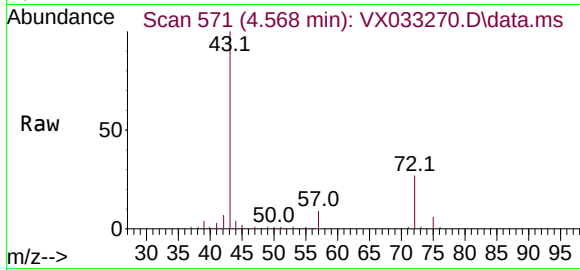
Tgt Ion: 43 Resp: 41088

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.0 9.1 13.7#



#38

Carbon Tetrachloride

Concen: 6.658 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.128 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

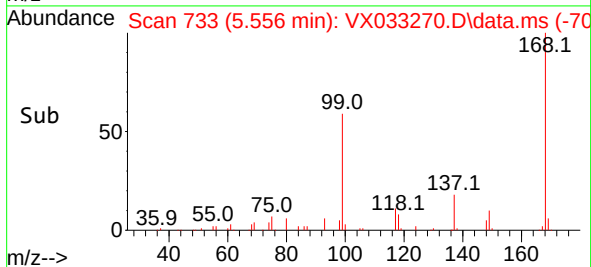
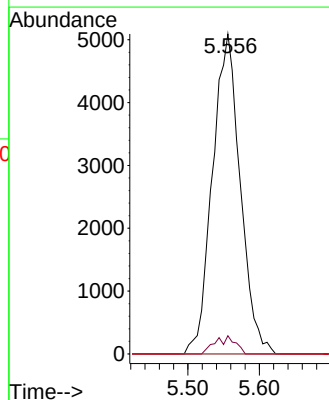
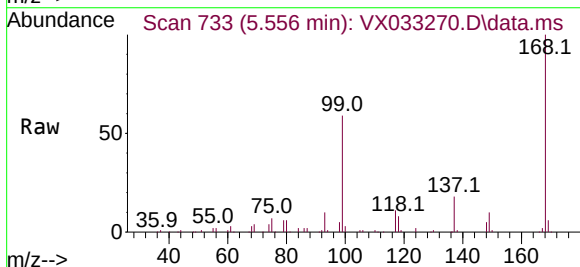
Tgt Ion: 117 Resp: 13750

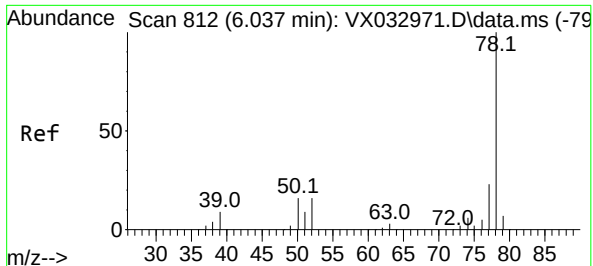
Ion Ratio Lower Upper

117 100

119 5.7 77.2 115.8#

121 0.0 25.8 38.6#

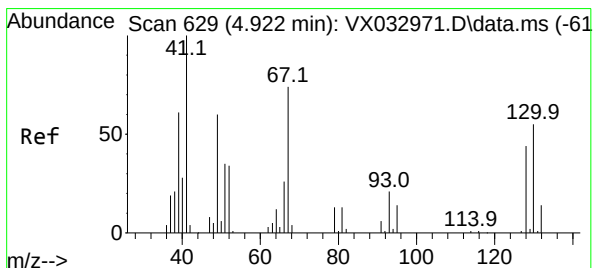
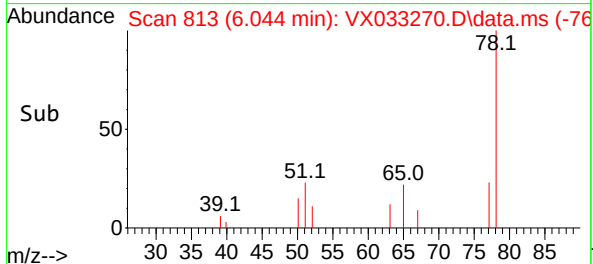
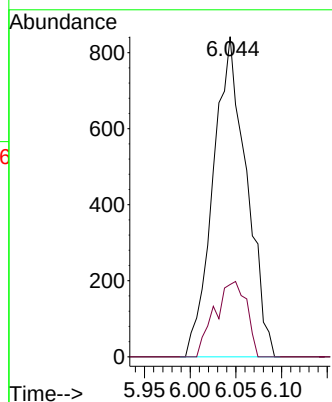
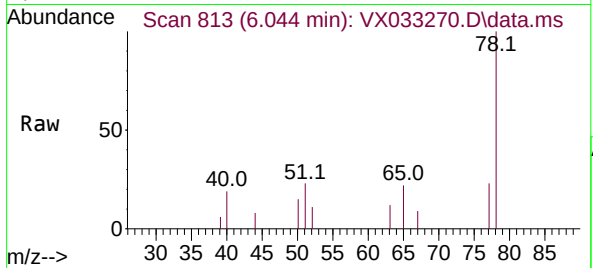




#40
Benzene
Concen: 0.409 ug/l
RT: 6.044 min Scan# 812
Delta R.T. 0.007 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

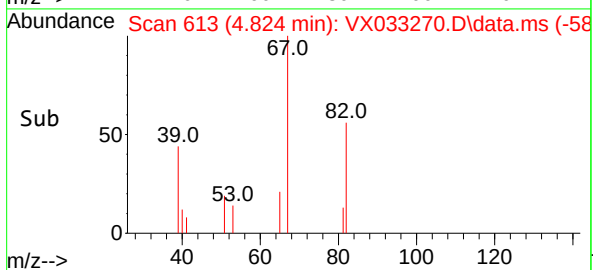
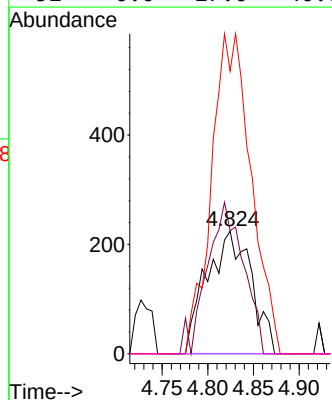
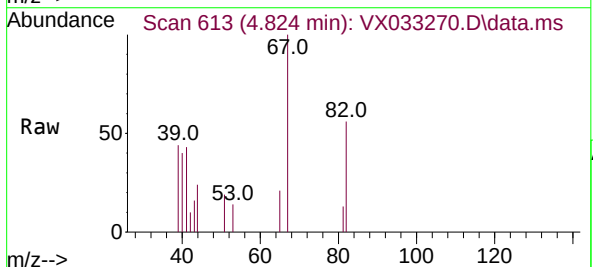
Instrument :
MSVOA_X
ClientSampleId :
31910

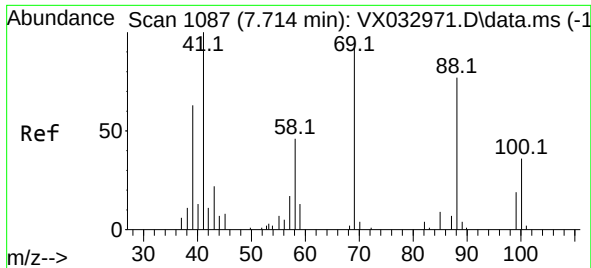
Tgt Ion: 78 Resp: 2135
Ion Ratio Lower Upper
78 100
77 22.6 19.0 28.4



#41
Methacrylonitrile
Concen: 0.832 ug/l
RT: 4.824 min Scan# 613
Delta R.T. -0.098 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion: 41 Resp: 760
Ion Ratio Lower Upper
41 100
39 100.7 47.5 71.3#
67 232.6 60.5 90.7#
52 0.0 27.0 40.6#





#49

1,4-Dioxane

Concen: 15.443 ug/l

RT: 7.702 min Scan# 1

Delta R.T. 0.031 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

Instrument :

MSVOA_X

ClientSampleId :

31910

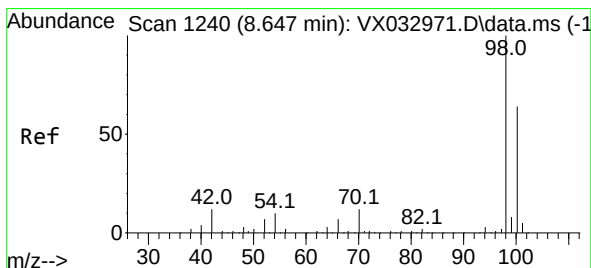
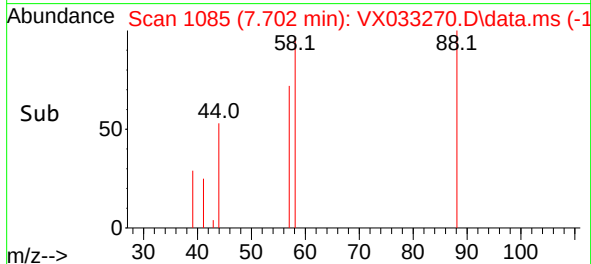
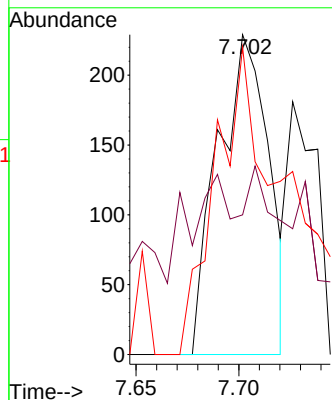
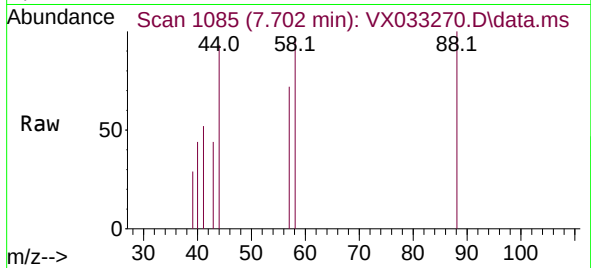
Tgt Ion: 88 Resp: 393

Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

58 131.8 51.7 77.5#



#50

Toluene-d8

Concen: 47.957 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX033270.D

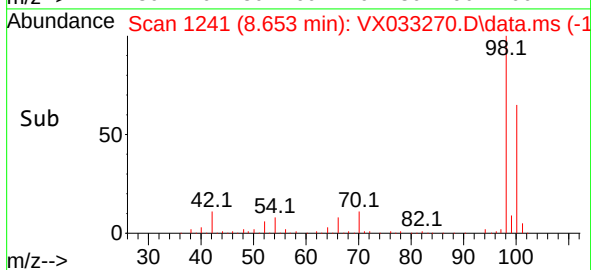
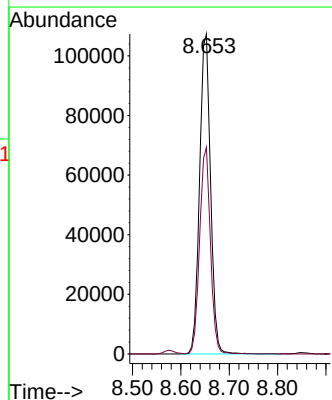
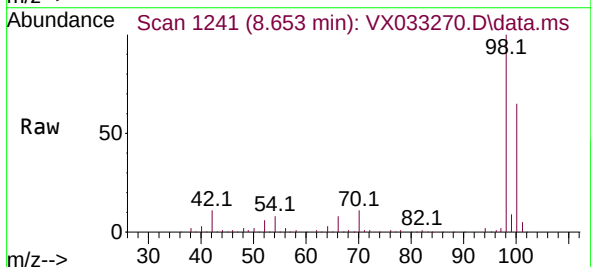
Acq: 06 Dec 2022 19:41

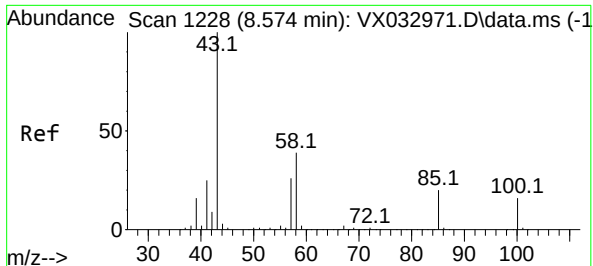
Tgt Ion: 98 Resp: 168295

Ion Ratio Lower Upper

98 100

100 63.8 50.9 76.3

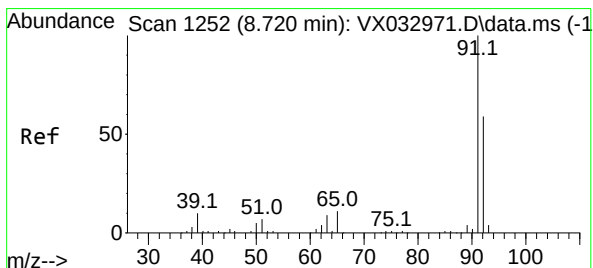
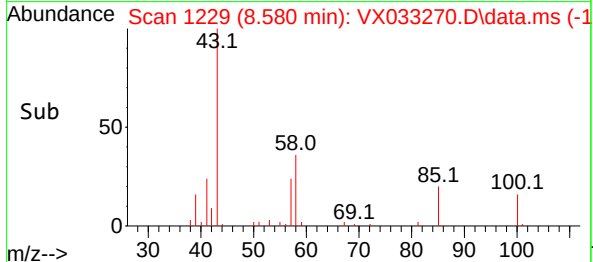
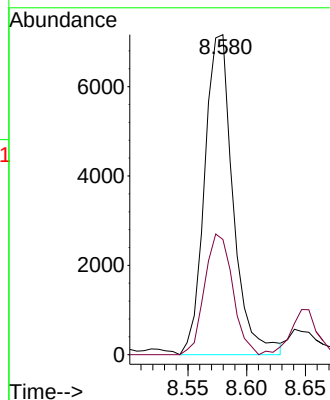
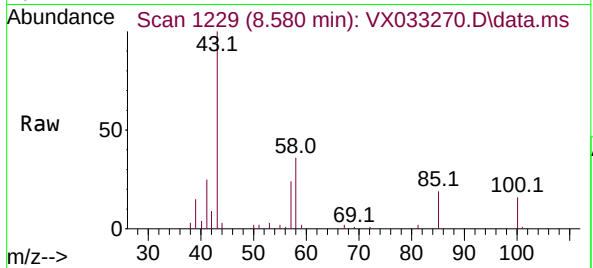




#51
4-Methyl-2-Pentanone
Concen: 7.286 ug/l
RT: 8.580 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

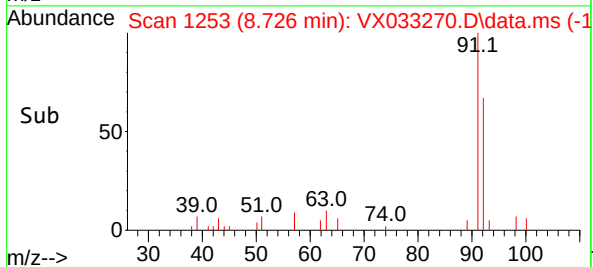
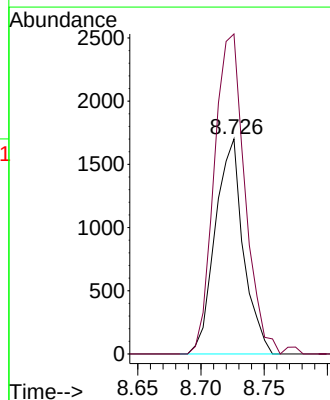
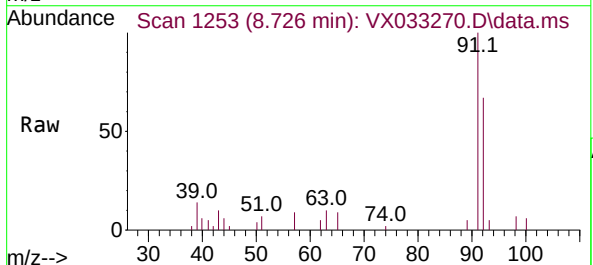
Instrument :
MSVOA_X
ClientSampleId :
31910

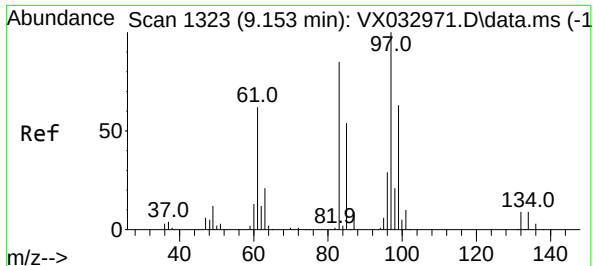
Tgt Ion: 43 Resp: 12076
Ion Ratio Lower Upper
43 100
58 37.0 30.9 46.3



#52
Toluene
Concen: 0.767 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion: 92 Resp: 2632
Ion Ratio Lower Upper
92 100
91 163.4 138.3 207.5





#55

1,1,2-Trichloroethane

Concen: 0.210 ug/l

RT: 9.019 min Scan# 11

Delta R.T. -0.134 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

Instrument :

MSVOA_X

ClientSampleId :

31910

Tgt Ion: 97 Resp: 293

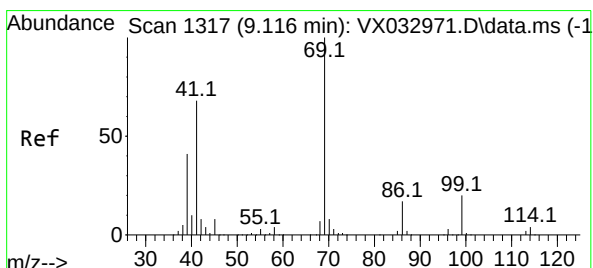
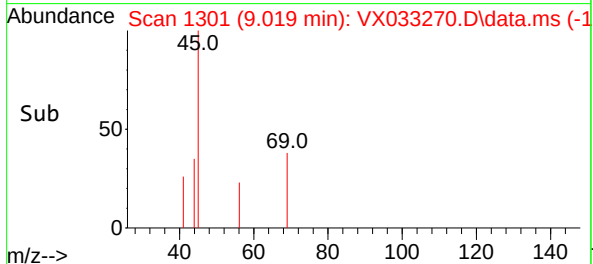
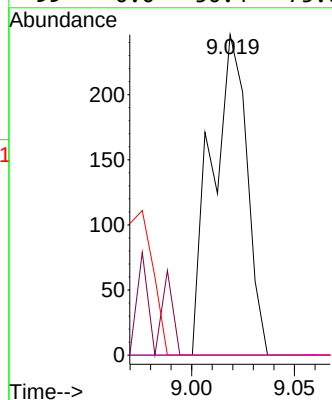
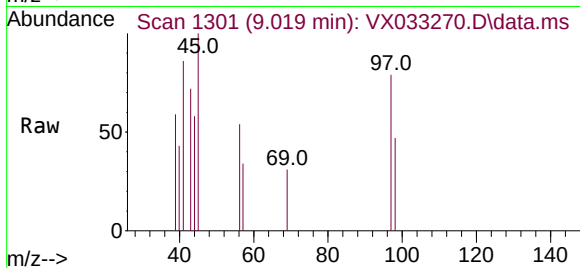
Ion Ratio Lower Upper

97 100

83 0.0 68.1 102.1#

85 0.0 43.3 64.9#

99 0.0 50.4 75.6#



#56

Ethyl methacrylate

Concen: 0.336 ug/l

RT: 9.037 min Scan# 1304

Delta R.T. -0.079 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

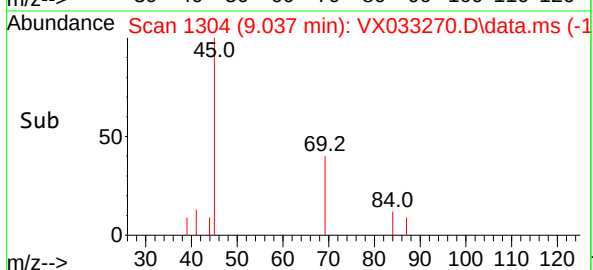
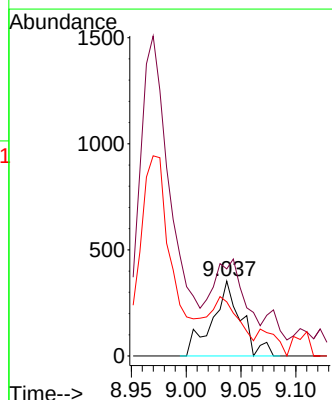
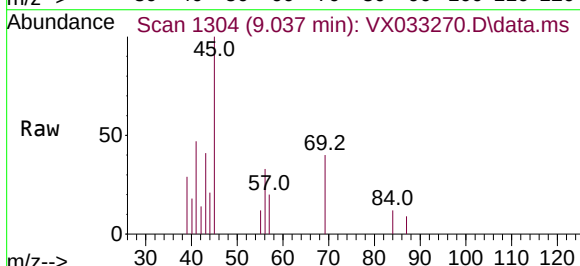
Tgt Ion: 69 Resp: 647

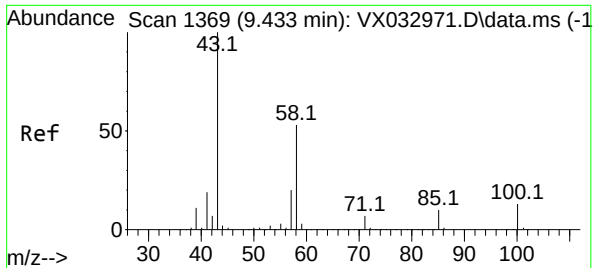
Ion Ratio Lower Upper

69 100

41 93.2 54.3 81.5#

39 84.4 35.2 52.8#

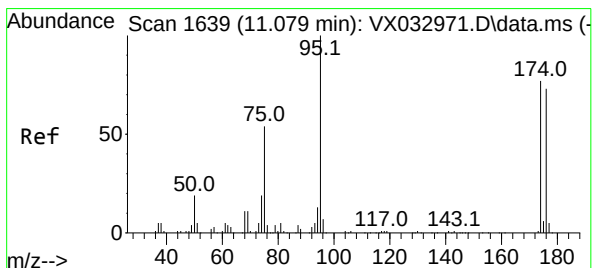
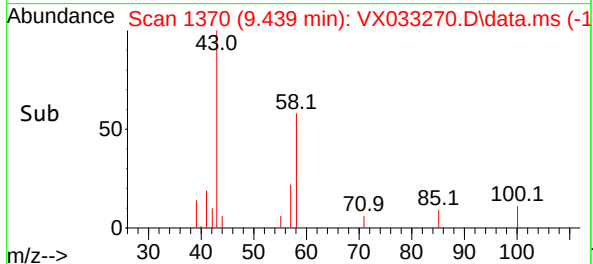
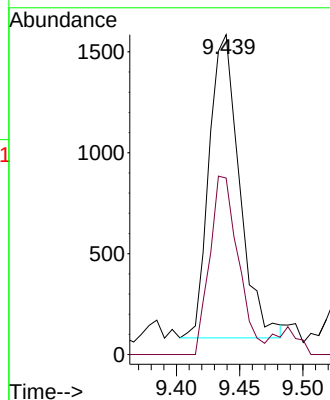
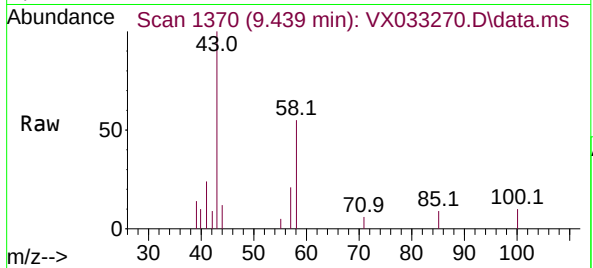




#59
2-Hexanone
Concen: 2.053 ug/l
RT: 9.439 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

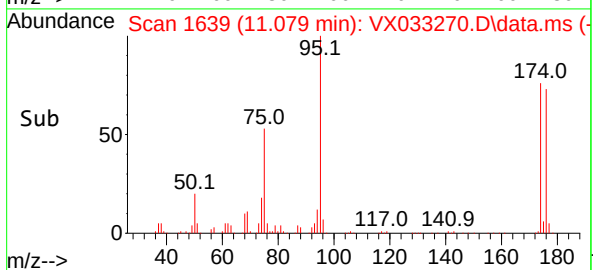
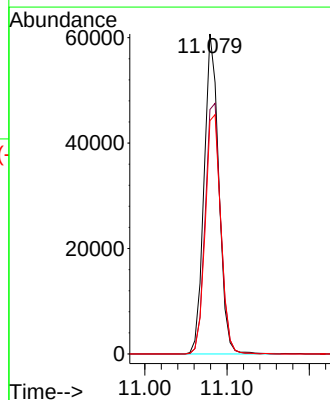
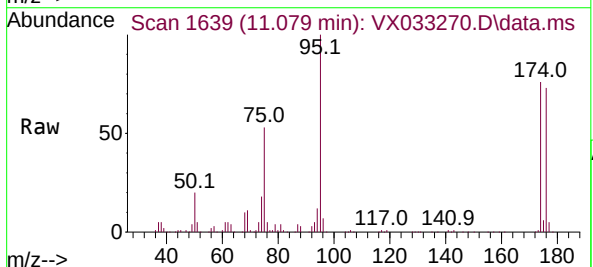
Instrument :
MSVOA_X
ClientSampleId :
31910

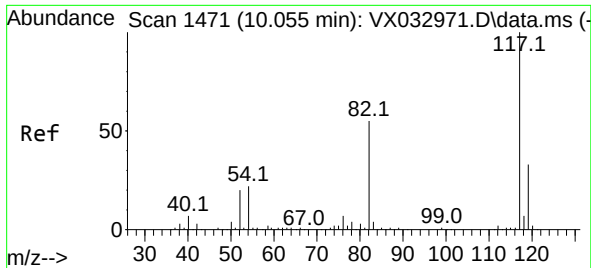
Tgt Ion: 43 Resp: 2513
Ion Ratio Lower Upper
43 100
58 55.6 26.5 79.5



#62
4-Bromofluorobenzene
Concen: 49.377 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion: 95 Resp: 75511
Ion Ratio Lower Upper
95 100
174 82.1 0.0 164.0
176 79.1 0.0 154.4

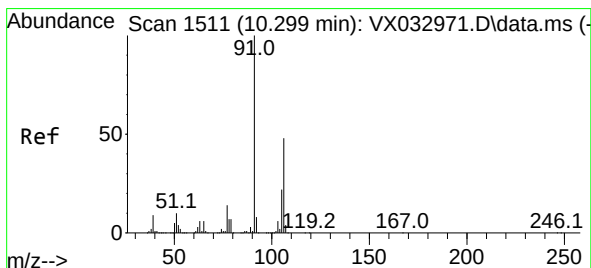
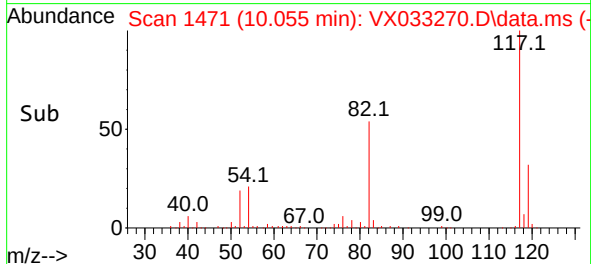
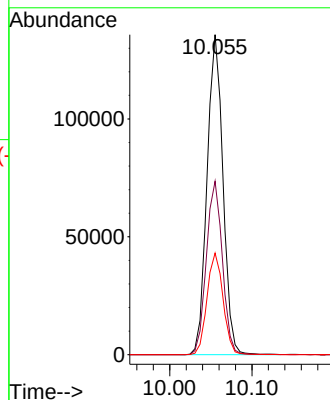
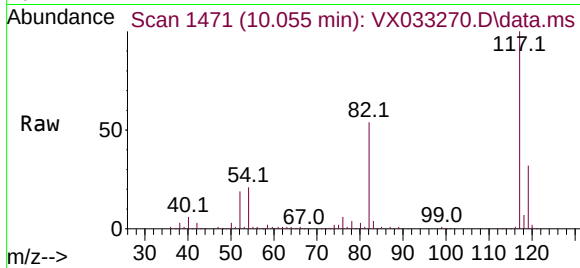




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

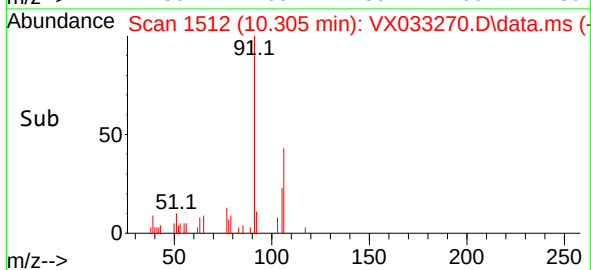
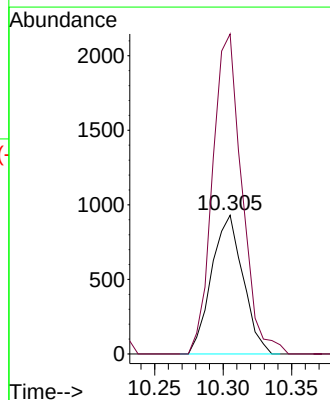
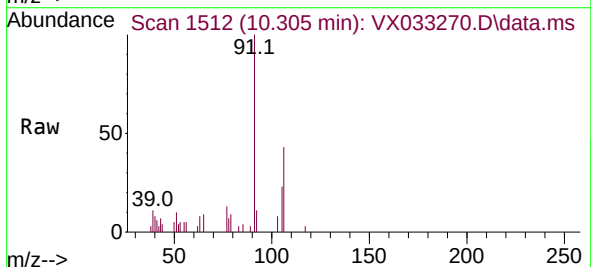
Instrument :
MSVOA_X
ClientSampleId :
31910

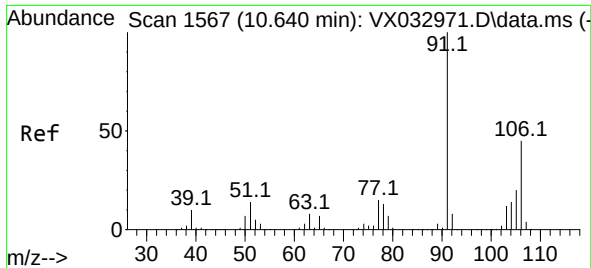
Tgt Ion:117 Resp: 182390
Ion Ratio Lower Upper
117 100
82 54.2 44.3 66.5
119 31.7 25.7 38.5



#68
m/p-Xylenes
Concen: 0.589 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion:106 Resp: 1487
Ion Ratio Lower Upper
106 100
91 214.9 164.5 246.7

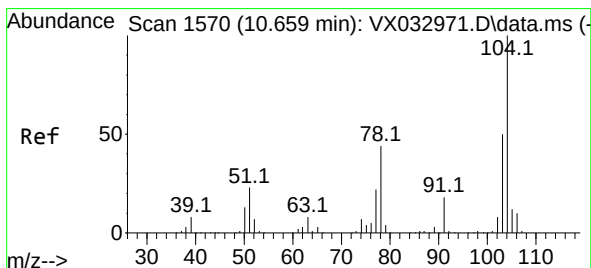
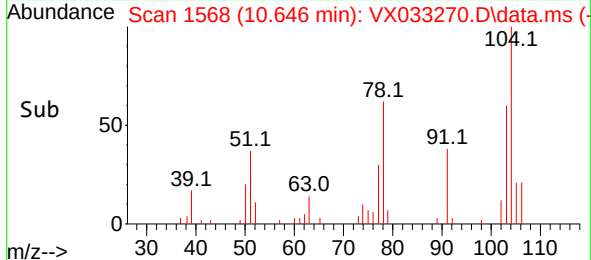
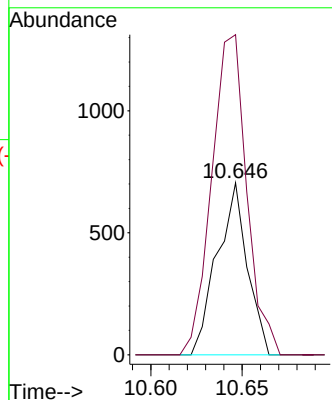
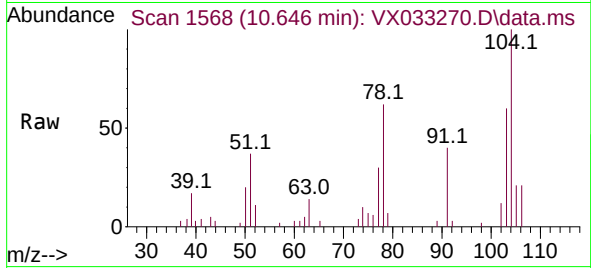




#69
o-Xylene
Concen: 0.332 ug/l
RT: 10.646 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

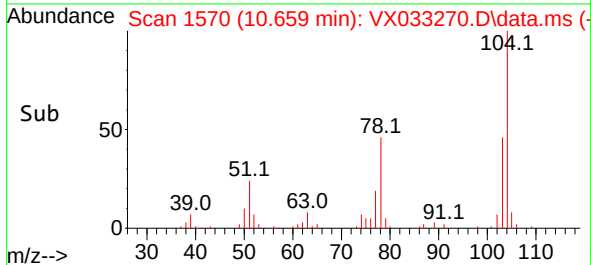
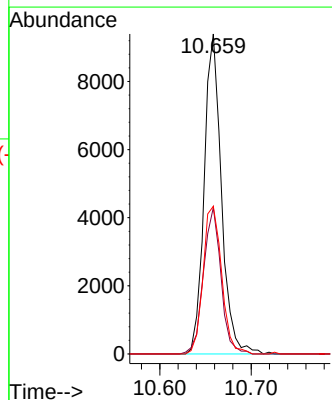
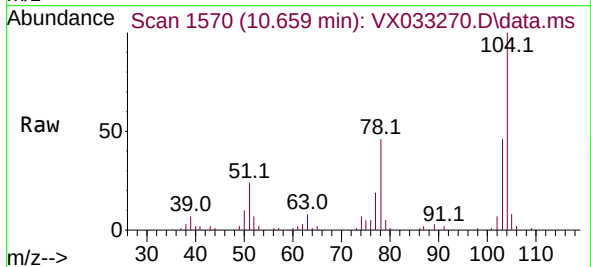
Instrument :
MSVOA_X
ClientSampleId :
31910

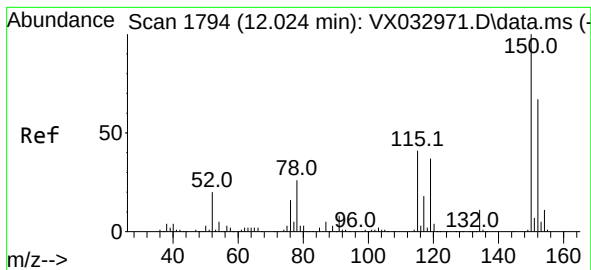
Tgt Ion:106 Resp: 811
Ion Ratio Lower Upper
106 100
91 215.9 109.2 327.6



#70
Styrene
Concen: 3.074 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. -0.000 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion:104 Resp: 12290
Ion Ratio Lower Upper
104 100
78 46.4 41.8 62.8
103 49.7 44.5 66.7

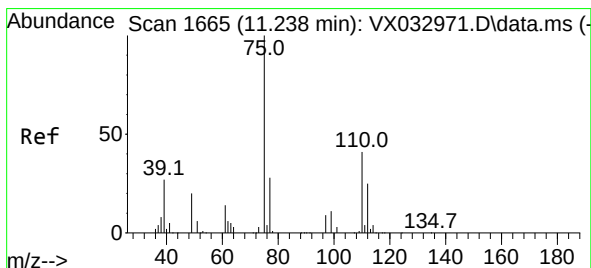
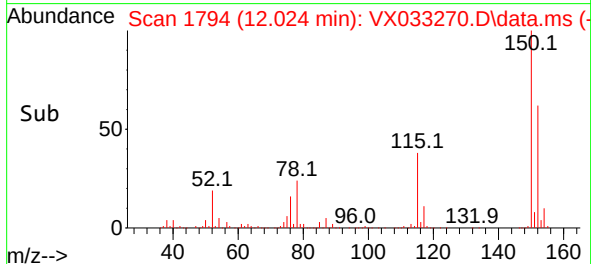
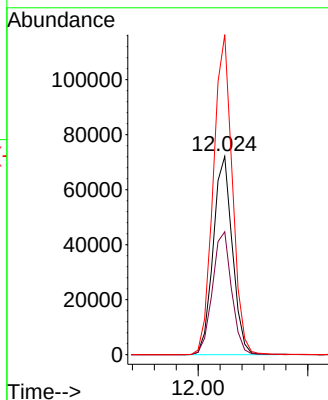
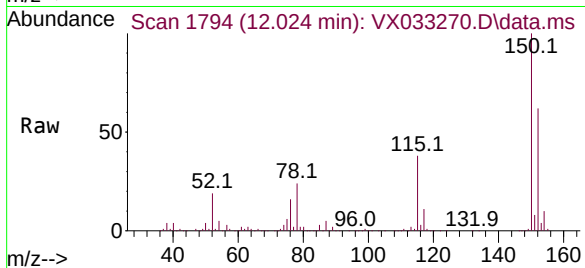




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

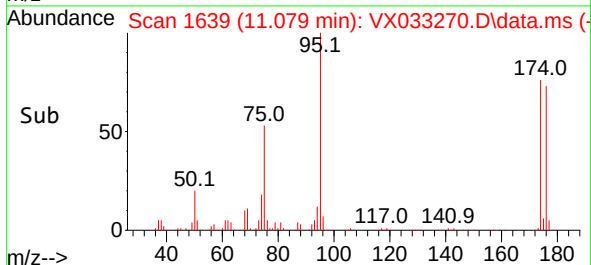
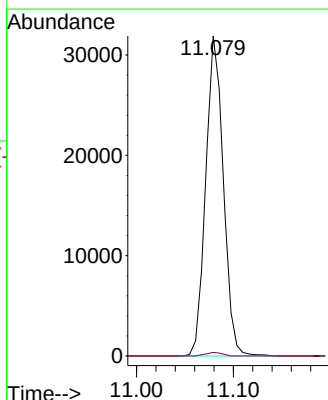
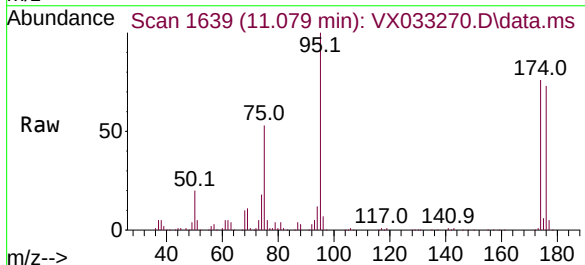
Instrument :
MSVOA_X
ClientSampleId :
31910

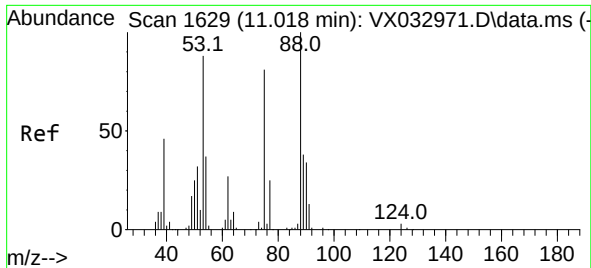
Tgt Ion:152 Resp: 87466
Ion Ratio Lower Upper
152 100
115 62.2 44.0 132.0
150 160.5 0.0 351.8



#76
1,2,3-Trichloropropane
Concen: 24.369 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion: 75 Resp: 40366
Ion Ratio Lower Upper
75 100
77 1.0 20.0 60.0#

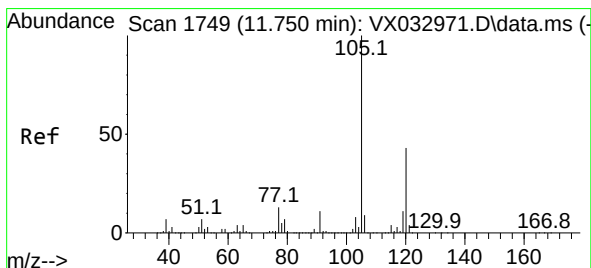
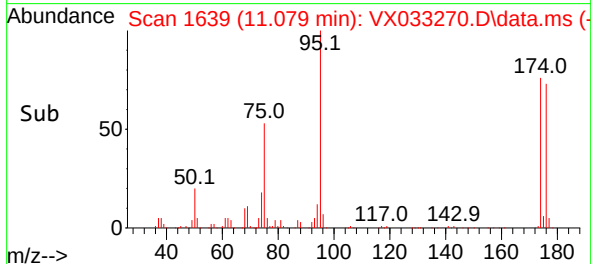
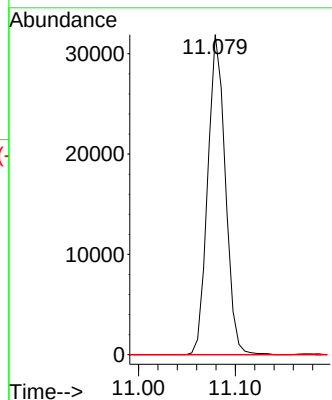
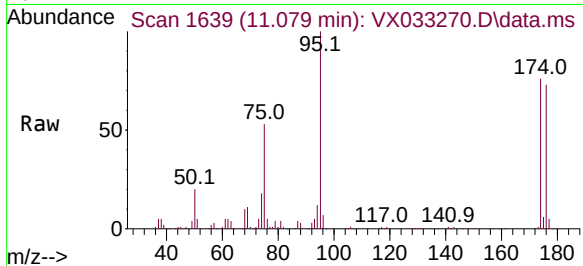




#81
trans-1,4-Dichloro-2-butene
Concen: 79.210 ug/l
RT: 11.079 min Scan# 11079
Delta R.T. 0.061 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

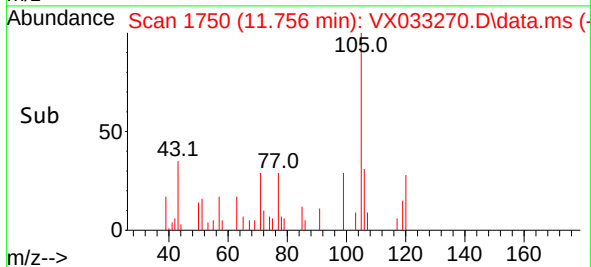
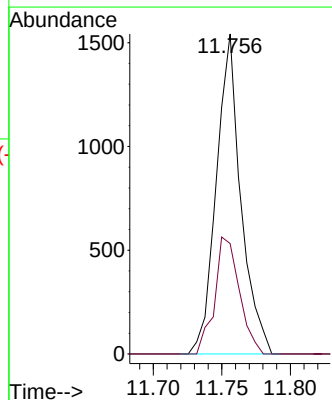
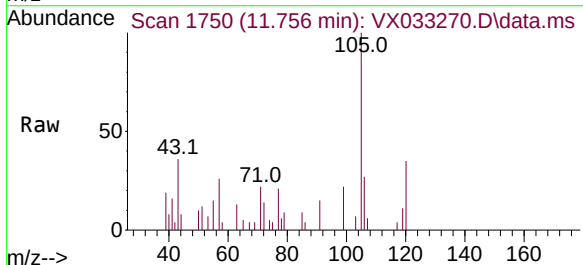
Instrument :
MSVOA_X
ClientSampleId :
31910

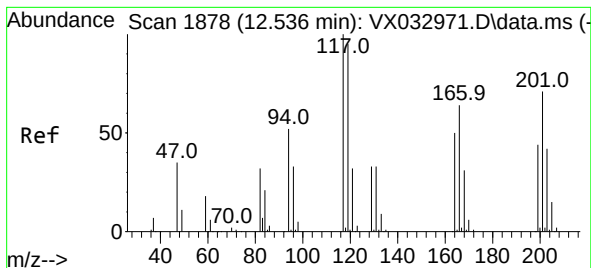
Tgt Ion: 75 Resp: 40366
Ion Ratio Lower Upper
75 100
53 0.0 86.9 130.3#
89 0.0 38.3 57.5#



#84
1,2,4-Trimethylbenzene
Concen: 0.366 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX033270.D
Acq: 06 Dec 2022 19:41

Tgt Ion: 105 Resp: 1918
Ion Ratio Lower Upper
105 100
120 36.7 21.9 65.5





#90

Hexachloroethane

Concen: 0.539 ug/l

RT: 12.591 min Scan# 1887

Delta R.T. 0.049 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

Instrument :

MSVOA_X

ClientSampleId :

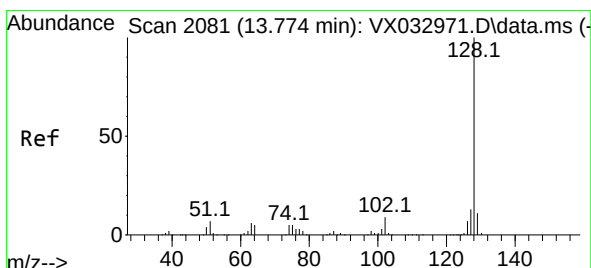
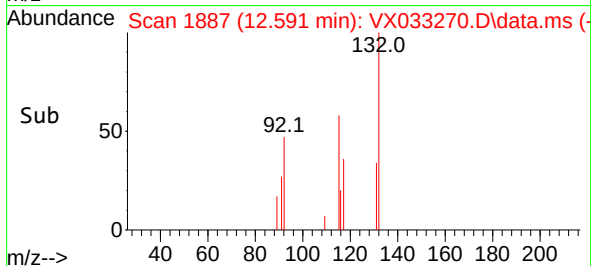
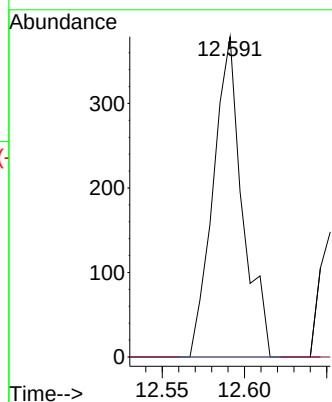
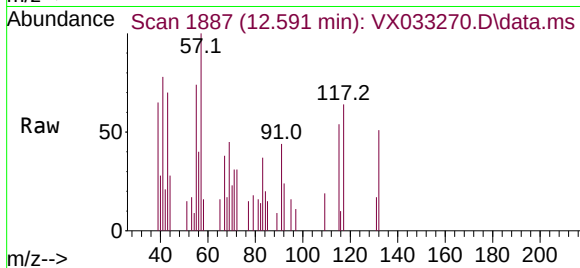
31910

Tgt Ion:117 Resp: 469

Ion Ratio Lower Upper

117 100

201 0.0 37.6 112.9#



#95

Naphthalene

Concen: 1.683 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.006 min

Lab File: VX033270.D

Acq: 06 Dec 2022 19:41

Tgt Ion:128 Resp: 9415

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

129 11.2 8.9 13.3

