

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120622\
 Data File : VX033267.D
 Acq On : 06 Dec 2022 18:32
 Operator : JC/MD
 Sample : N5875-10DL 40X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-44DL

Quant Time: Dec 07 01:35:10 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)

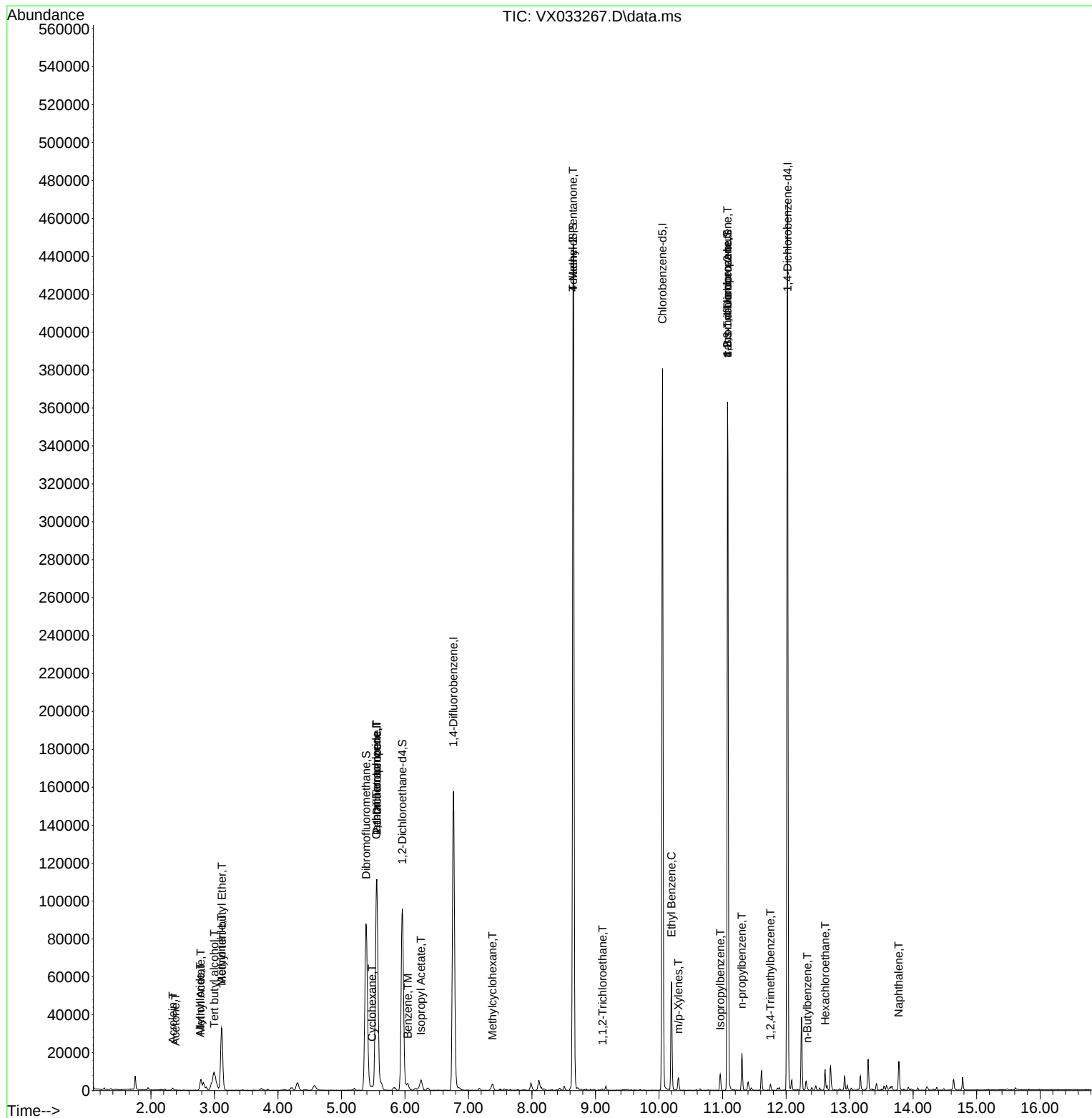
Internal Standards						
1) Pentafluorobenzene	5.556	168	106648	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	163583	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	168155	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	98815	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	99221	98.234	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 196.460%#			
35) Dibromofluoromethane	5.385	113	76353	82.793	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 165.580%#			
50) Toluene-d8	8.647	98	274028	100.955	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 201.920%#			
62) 4-Bromofluorobenzene	11.079	95	93981	77.578	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 155.160%#			
Target Compounds						Qvalue
11) Tert butyl alcohol	2.995	59	20682	125.622	ug/l	97
13) Acrolein	2.343	56	102	0.539	ug/l #	14
14) Allyl chloride	2.776	41	1402	0.933	ug/l #	67
15) Acrylonitrile	3.111	53	450	0.966	ug/l #	30
16) Acetone	2.386	43	235	0.484	ug/l #	45
18) Methyl Acetate	2.782	43	3384	2.520	ug/l #	51
19) Methyl tert-butyl Ether	3.117	73	33558	10.397	ug/l #	89
20) Methylene Chloride	2.794	84	844	Below Cal		93
31) Cyclohexane	5.483	56	1263	0.751	ug/l	95
36) 1,1-Dichloropropene	5.556	75	8451	5.731	ug/l #	49
38) Carbon Tetrachloride	5.550	117	10644	6.507	ug/l #	16
39) Methylcyclohexane	7.379	83	1559	0.927	ug/l	99
40) Benzene	6.044	78	4038	0.977	ug/l	95
43) Isopropyl Acetate	6.251	43	1300	0.611	ug/l #	61
51) 4-Methyl-2-Pentanone	8.647	43	1384	1.054	ug/l #	1
55) 1,1,2-Trichloroethane	9.110	97	408	0.368	ug/l #	15
67) Ethyl Benzene	10.195	91	32793	5.514	ug/l	100
68) m/p-Xylenes	10.305	106	1637	0.703	ug/l	87
73) Isopropylbenzene	10.963	105	4829	0.684	ug/l	100
76) 1,2,3-Trichloropropane	11.079	75	50085	26.763	ug/l #	37
78) n-propylbenzene	11.305	91	12450	1.542	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.079	75	50085	86.993	ug/l #	6
84) 1,2,4-Trimethylbenzene	11.756	105	1668	0.282	ug/l	90
89) n-Butylbenzene	12.335	91	1106	0.215	ug/l #	72
90) Hexachloroethane	12.616	117	592	0.602	ug/l #	12
95) Naphthalene	13.774	128	11200	1.773	ug/l	99

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

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Instrument :
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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

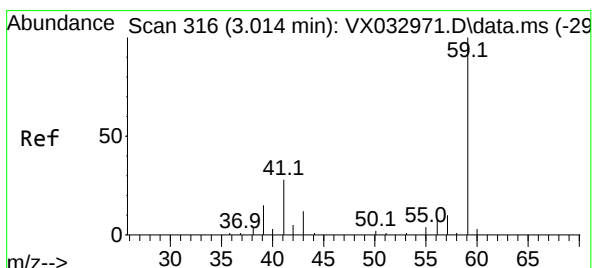
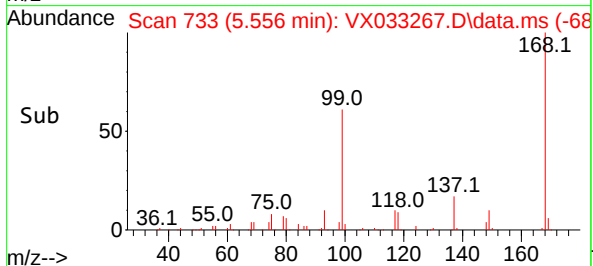
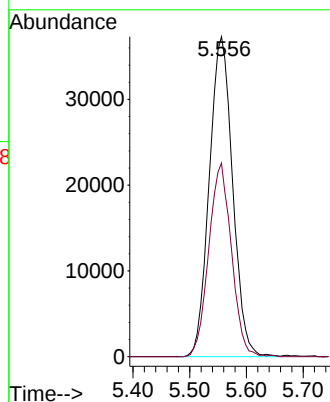
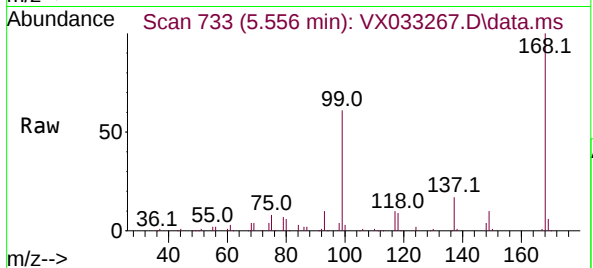




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

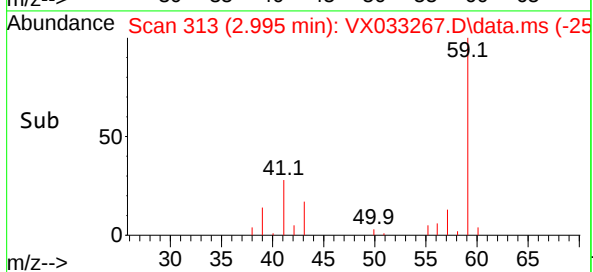
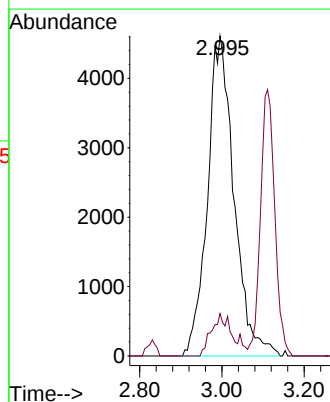
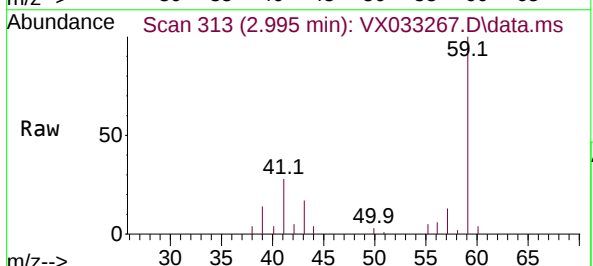
Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

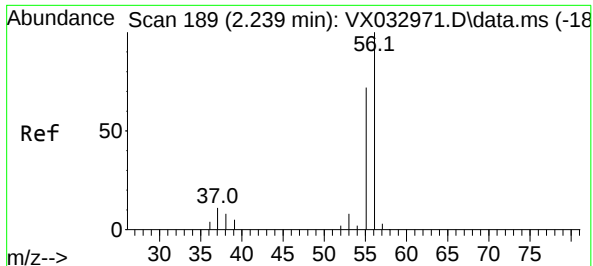
Tgt Ion:168 Resp: 106648
Ion Ratio Lower Upper
168 100
99 60.5 46.1 69.1



#11
Tert butyl alcohol
Concen: 125.622 ug/l
RT: 2.995 min Scan# 313
Delta R.T. 0.030 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion: 59 Resp: 20682
Ion Ratio Lower Upper
59 100
57 9.3 8.2 12.4





#13

Acrolein

Concen: 0.539 ug/l

RT: 2.343 min Scan# 206

Delta R.T. 0.110 min

Lab File: VX033267.D

Acq: 06 Dec 2022 18:32

Instrument :

MSVOA_X

ClientSampleId :

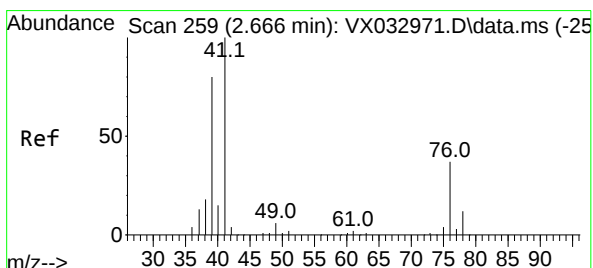
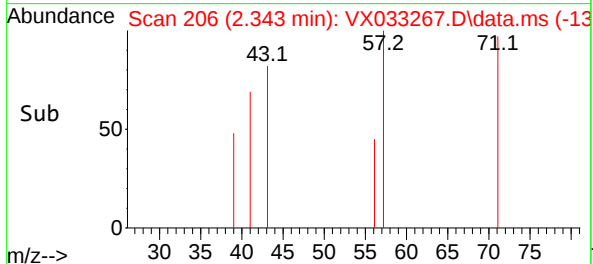
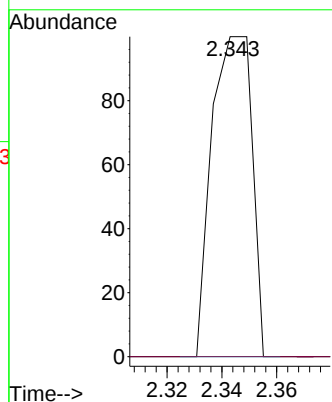
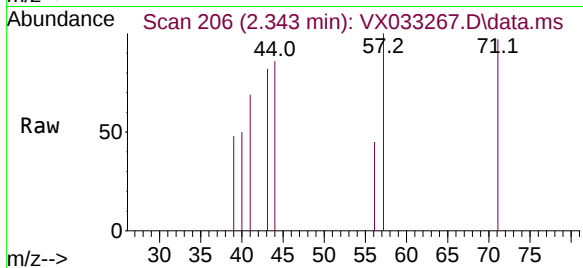
MW-44DL

Tgt Ion: 56 Resp: 102

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#14

Allyl chloride

Concen: 0.933 ug/l

RT: 2.776 min Scan# 277

Delta R.T. 0.110 min

Lab File: VX033267.D

Acq: 06 Dec 2022 18:32

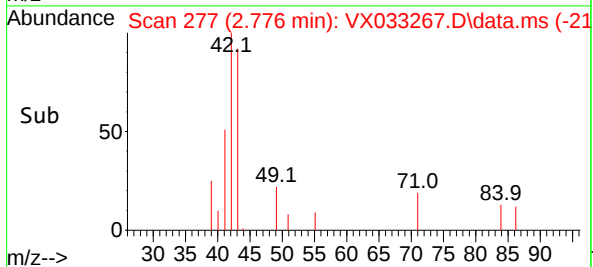
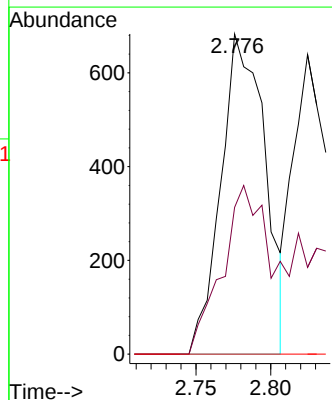
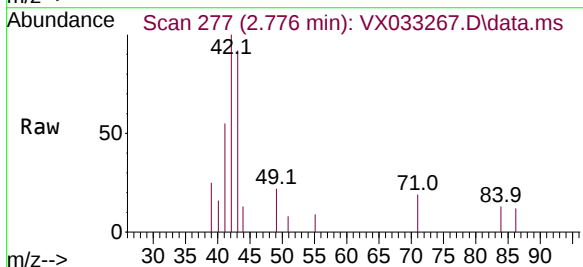
Tgt Ion: 41 Resp: 1402

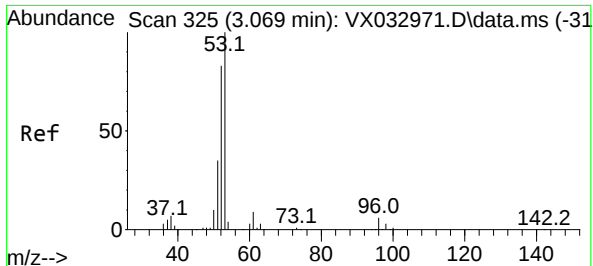
Ion Ratio Lower Upper

41 100

39 60.3 61.4 92.2#

76 0.0 29.2 43.8#





#15

Acrylonitrile

Concen: 0.966 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.049 min

Lab File: VX033267.D

Acq: 06 Dec 2022 18:32

Instrument :

MSVOA_X

ClientSampleId :

MW-44DL

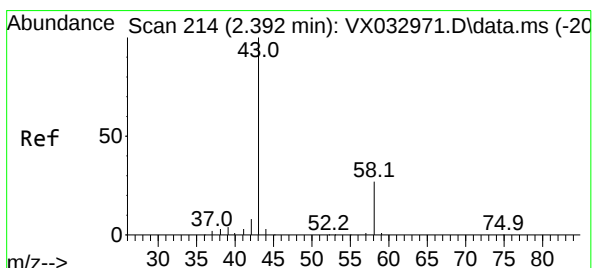
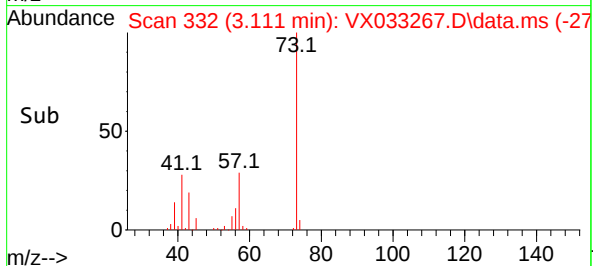
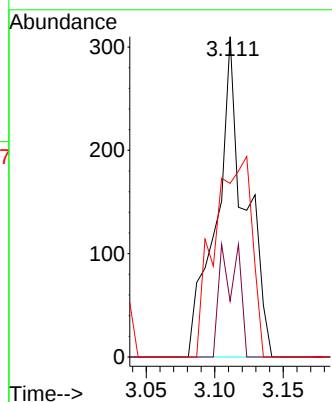
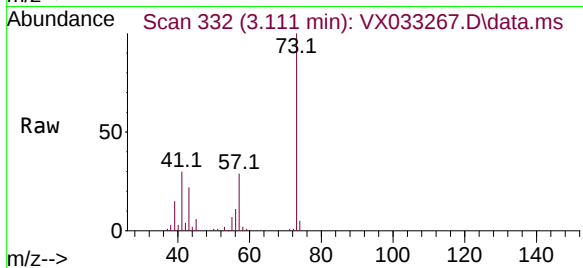
Tgt Ion: 53 Resp: 450

Ion Ratio Lower Upper

53 100

52 22.2 67.4 101.0#

51 81.8 30.3 45.5#



#16

Acetone

Concen: 0.484 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX033267.D

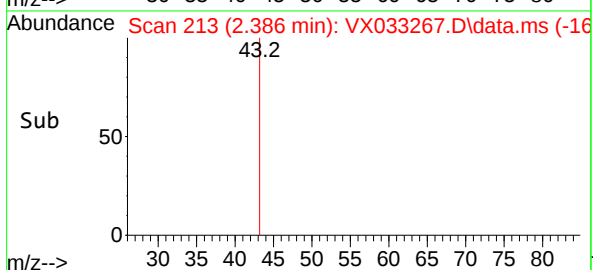
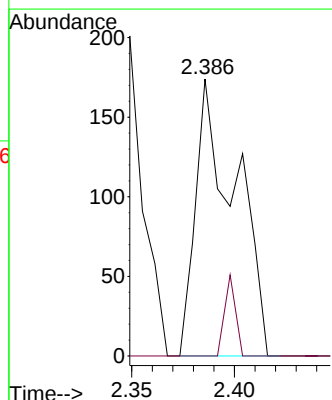
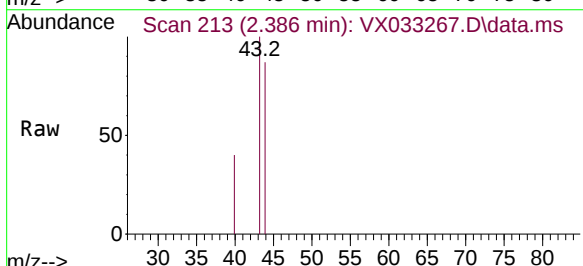
Acq: 06 Dec 2022 18:32

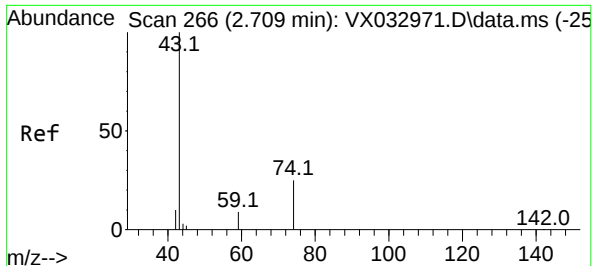
Tgt Ion: 43 Resp: 235

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.8#

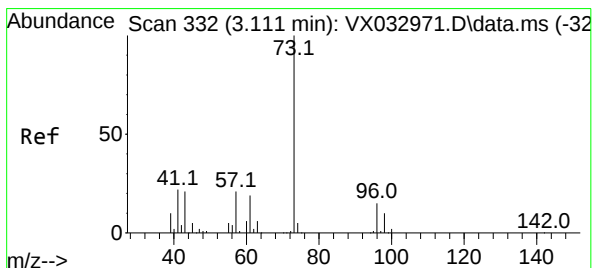
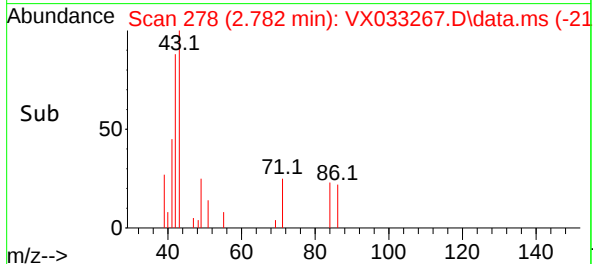
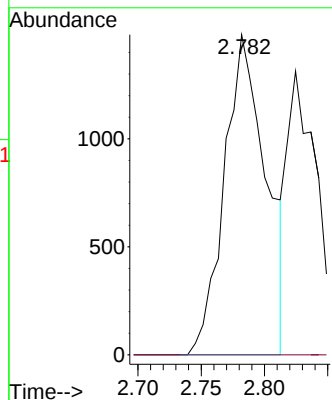
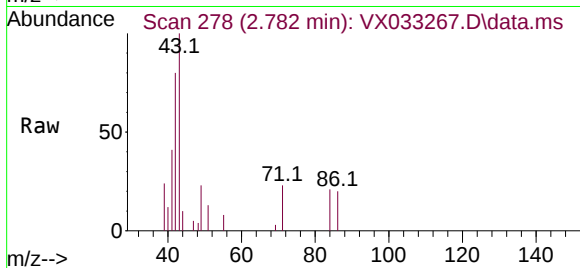




#18
Methyl Acetate
Concen: 2.520 ug/l
RT: 2.782 min Scan# 21
Delta R.T. 0.079 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

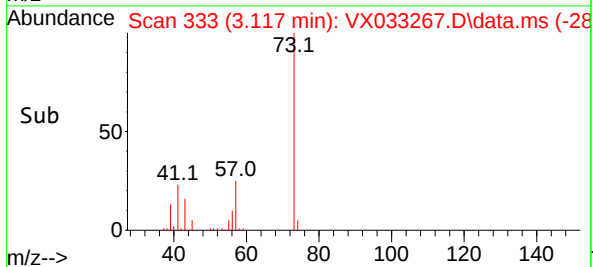
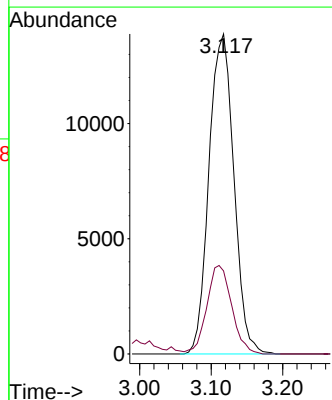
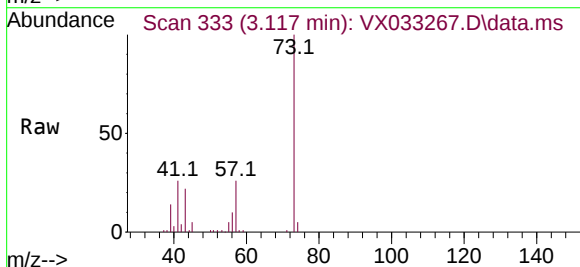
Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

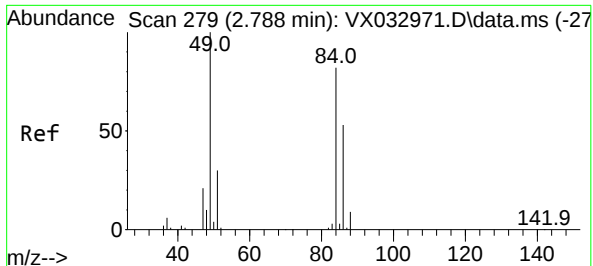
Tgt Ion: 43 Resp: 3384
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#



#19
Methyl tert-butyl Ether
Concen: 10.397 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.006 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion: 73 Resp: 33558
Ion Ratio Lower Upper
73 100
57 26.0 16.6 25.0#



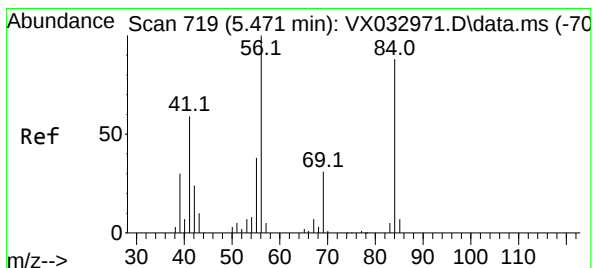
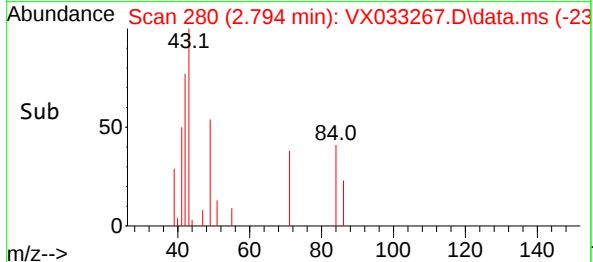
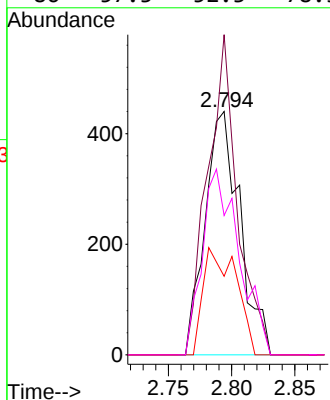
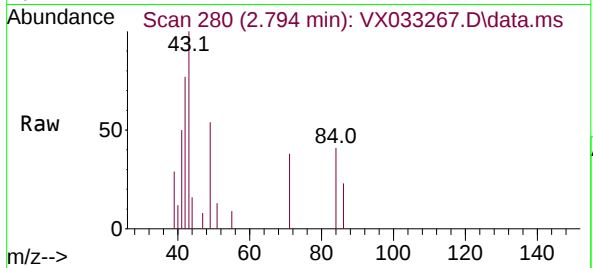


#20
Methylene Chloride
Concen: Below Cal
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

Tgt Ion: 84 Resp: 844

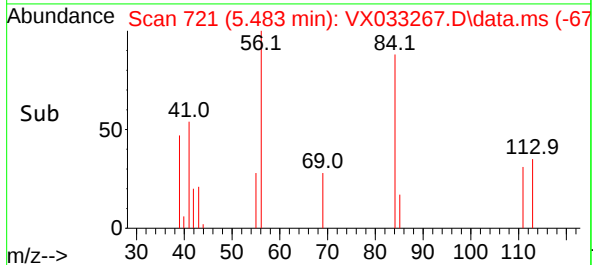
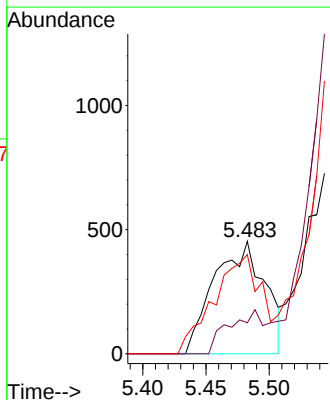
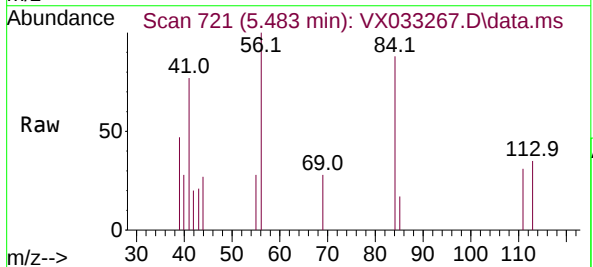
Ion	Ratio	Lower	Upper
84	100		
49	131.6	101.0	151.6
51	32.3	31.1	46.7
86	57.3	52.3	78.5

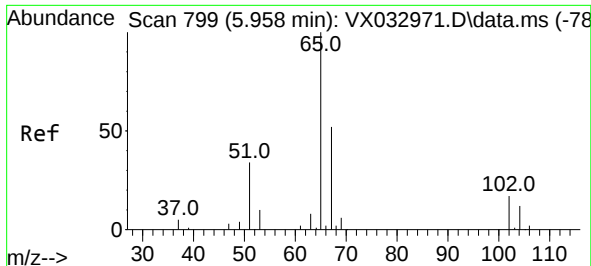


#31
Cyclohexane
Concen: 0.751 ug/l
RT: 5.483 min Scan# 721
Delta R.T. 0.013 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion: 56 Resp: 1263

Ion	Ratio	Lower	Upper
56	100		
69	27.6	24.1	36.1
84	88.3	66.9	100.3





#33

1,2-Dichloroethane-d4

Concen: 98.234 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX033267.D

Acq: 06 Dec 2022 18:32

Instrument :

MSVOA_X

ClientSampleId :

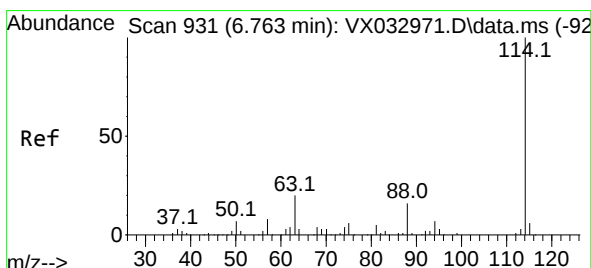
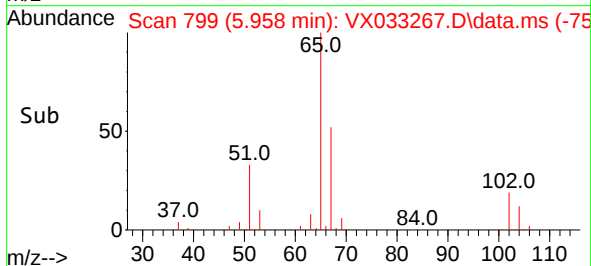
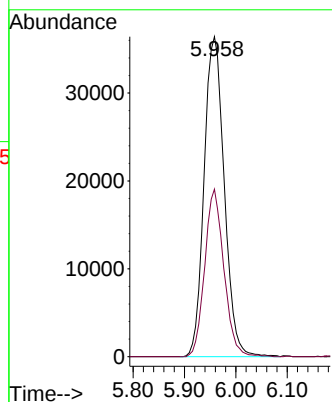
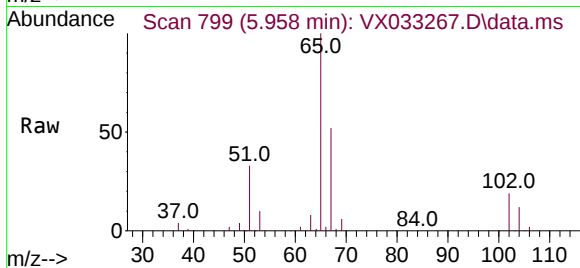
MW-44DL

Tgt Ion: 65 Resp: 99221

Ion Ratio Lower Upper

65 100

67 49.7 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: VX033267.D

Acq: 06 Dec 2022 18:32

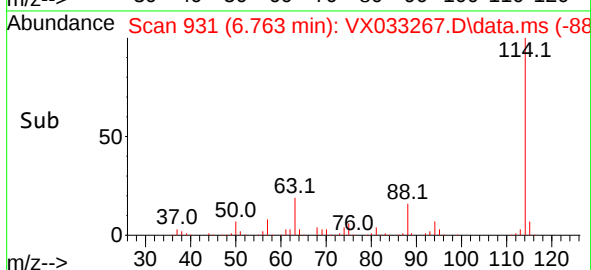
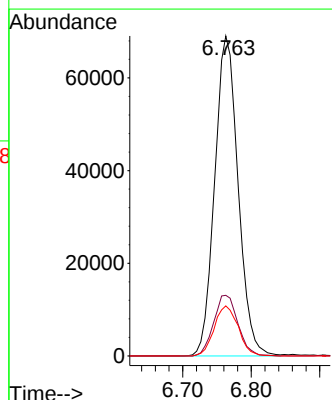
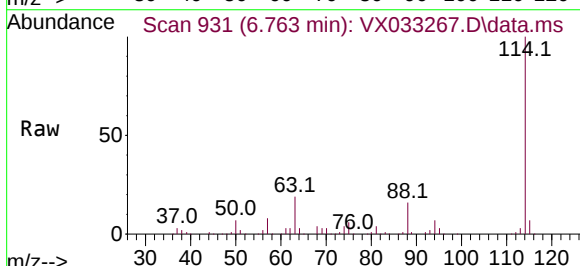
Tgt Ion: 114 Resp: 163583

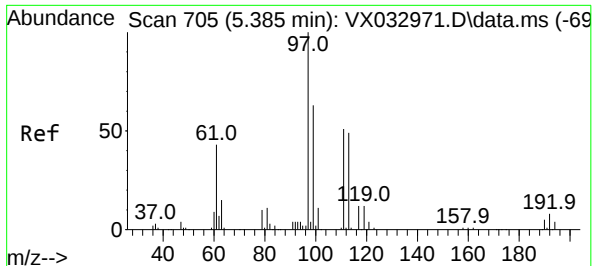
Ion Ratio Lower Upper

114 100

63 18.9 0.0 41.6

88 15.6 0.0 33.4

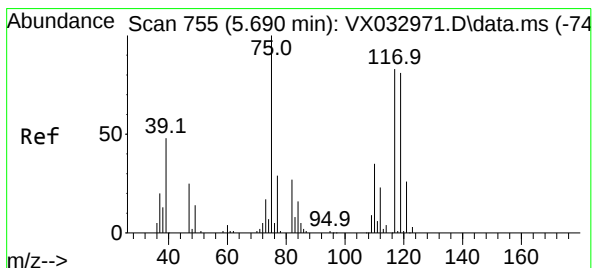
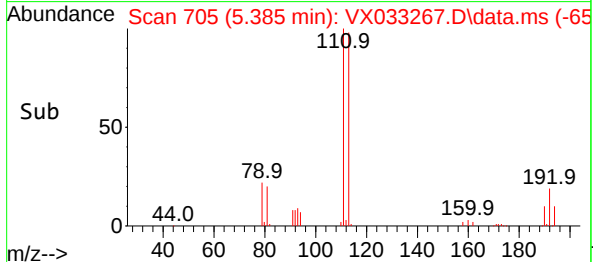
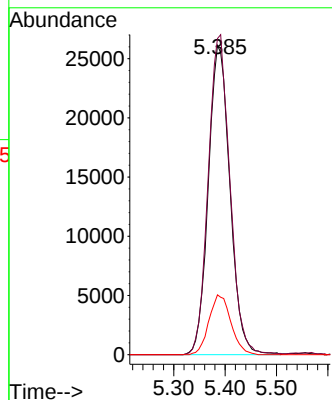
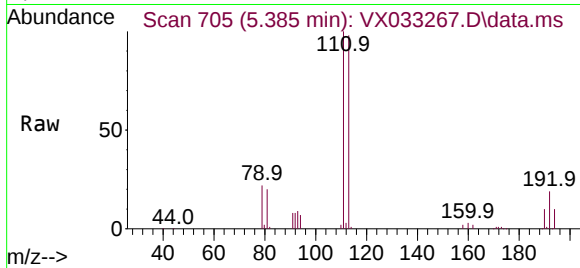




#35
Dibromofluoromethane
Concen: 82.793 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

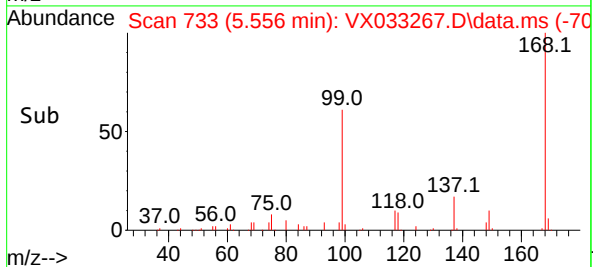
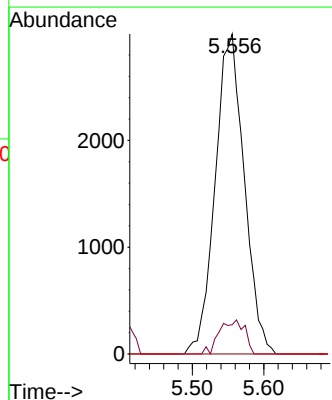
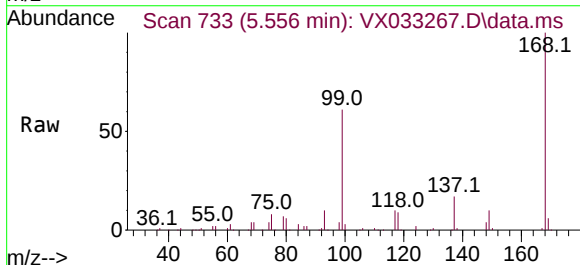
Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

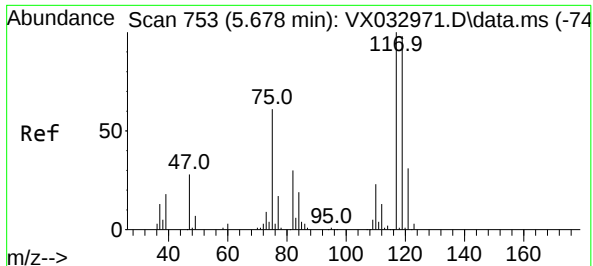
Tgt Ion:113 Resp: 76353
Ion Ratio Lower Upper
113 100
111 103.9 82.4 123.6
192 19.6 15.4 23.2



#36
1,1-Dichloropropene
Concen: 5.731 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion: 75 Resp: 8451
Ion Ratio Lower Upper
75 100
110 9.3 18.4 55.2#
77 0.0 24.5 36.7#

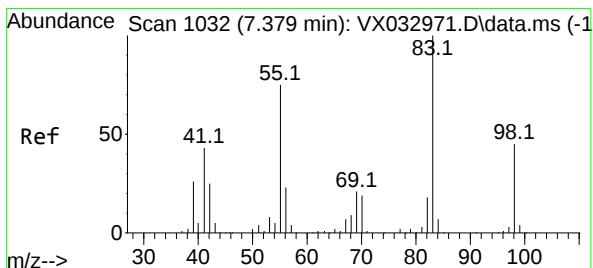
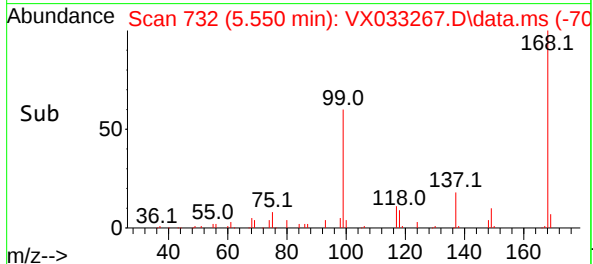
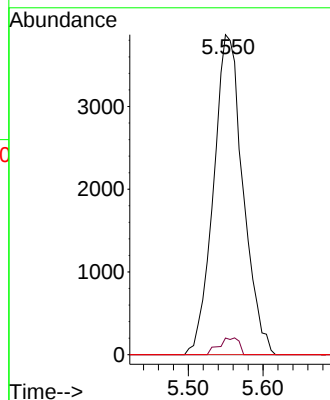
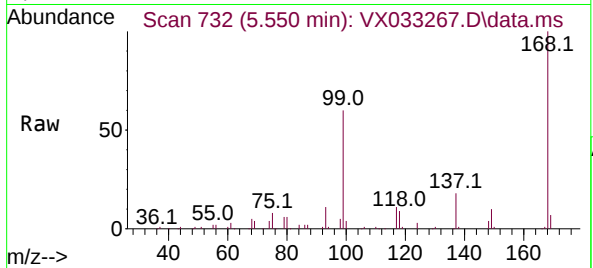




#38
Carbon Tetrachloride
Concen: 6.507 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

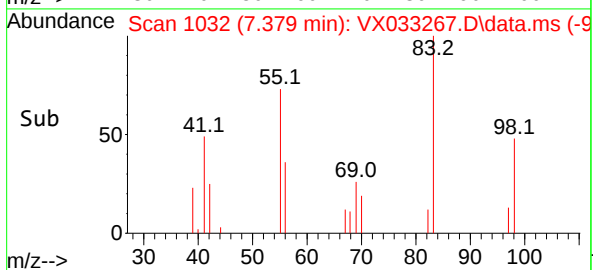
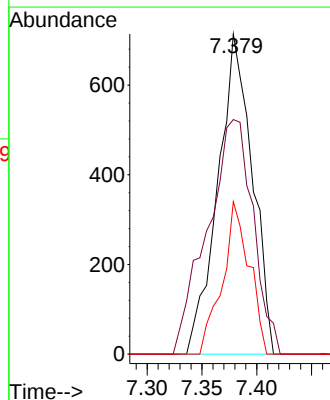
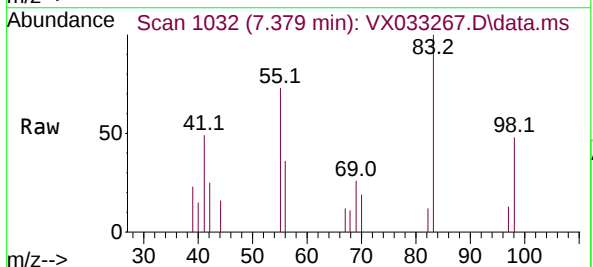
Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

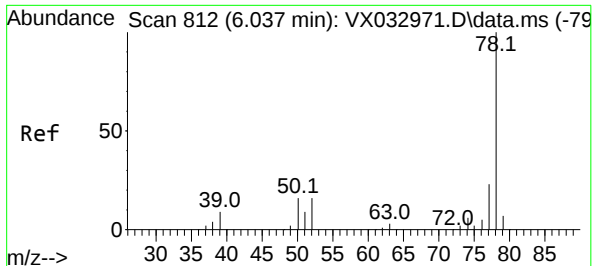
Tgt Ion:117 Resp: 10644
Ion Ratio Lower Upper
117 100
119 5.2 77.2 115.8#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 0.927 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. -0.006 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion: 83 Resp: 1559
Ion Ratio Lower Upper
83 100
55 73.2 58.4 87.6
98 47.6 37.2 55.8





#40

Benzene

Concen: 0.977 ug/l

RT: 6.044 min Scan# 812

Delta R.T. 0.007 min

Lab File: VX033267.D

Acq: 06 Dec 2022 18:32

Instrument :

MSVOA_X

ClientSampleId :

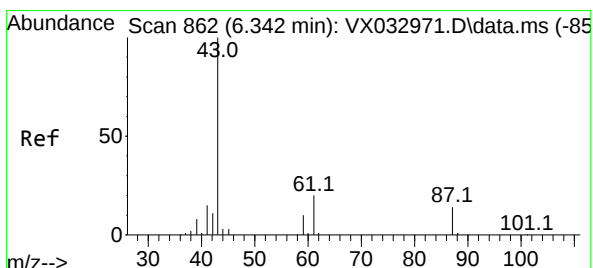
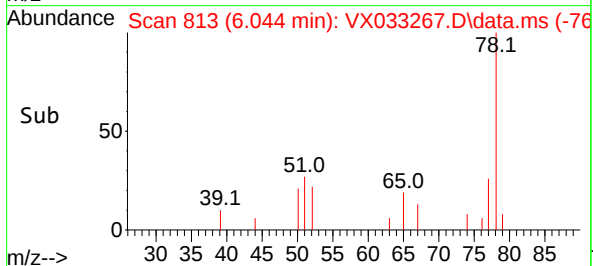
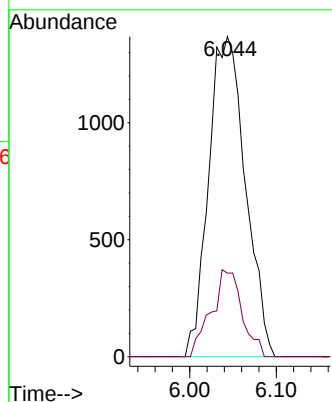
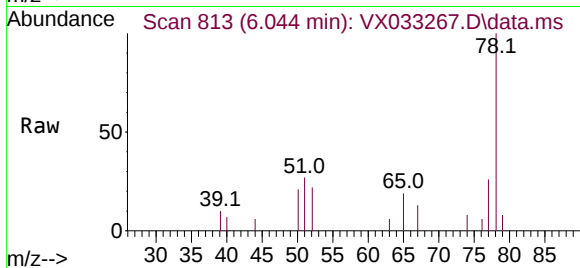
MW-44DL

Tgt Ion: 78 Resp: 4038

Ion Ratio Lower Upper

78 100

77 26.1 19.0 28.4



#43

Isopropyl Acetate

Concen: 0.611 ug/l

RT: 6.251 min Scan# 847

Delta R.T. -0.091 min

Lab File: VX033267.D

Acq: 06 Dec 2022 18:32

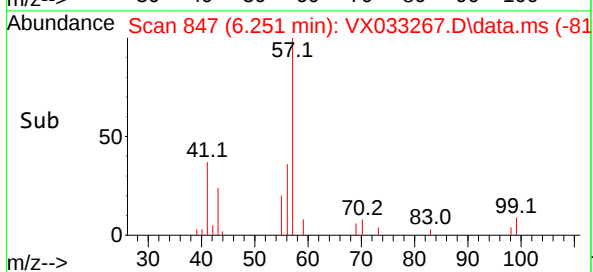
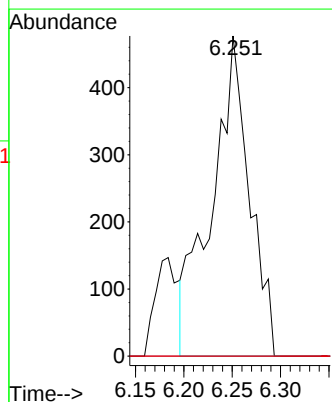
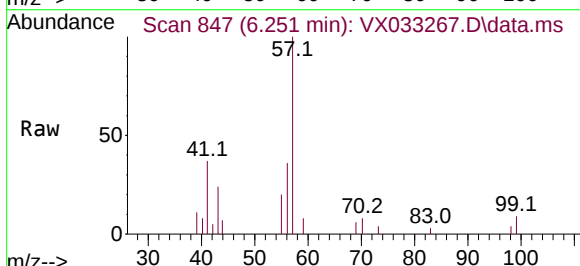
Tgt Ion: 43 Resp: 1300

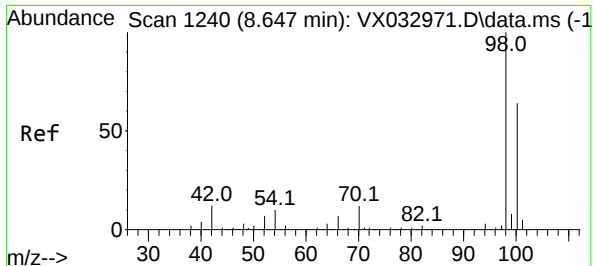
Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

87 0.0 10.8 16.2#





#50

Toluene-d8

Concen: 100.955 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX033267.D

Acq: 06 Dec 2022 18:32

Instrument :

MSVOA_X

ClientSampleId :

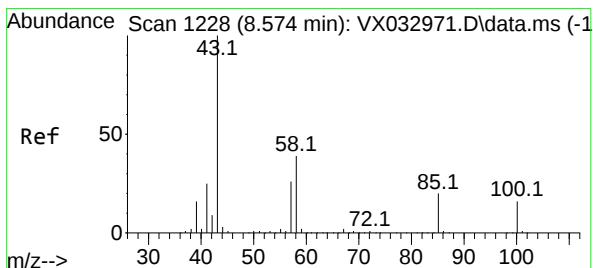
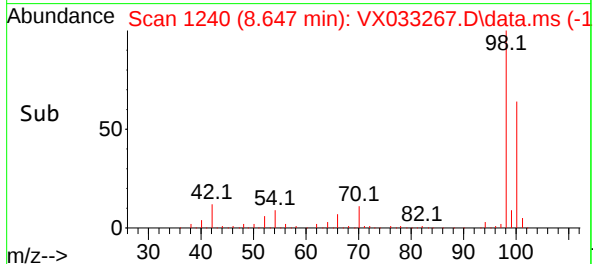
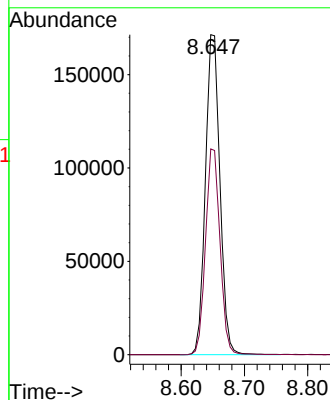
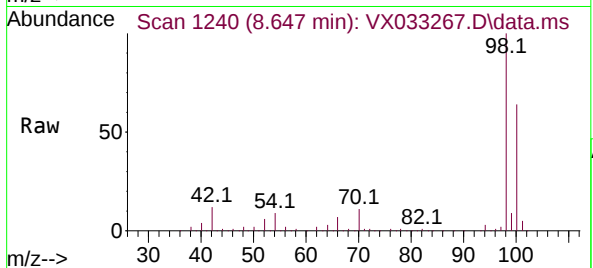
MW-44DL

Tgt Ion: 98 Resp: 274028

Ion Ratio Lower Upper

98 100

100 64.1 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.054 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX033267.D

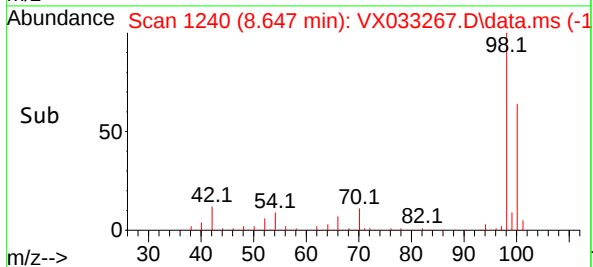
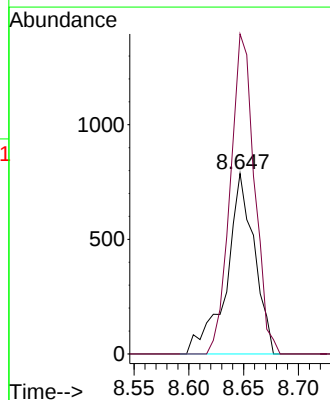
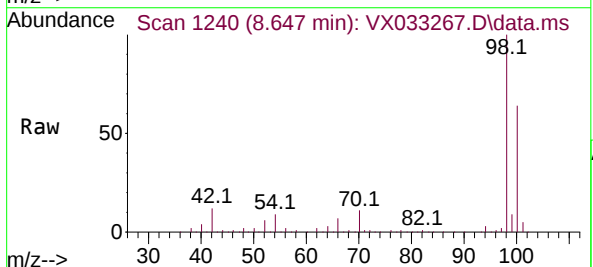
Acq: 06 Dec 2022 18:32

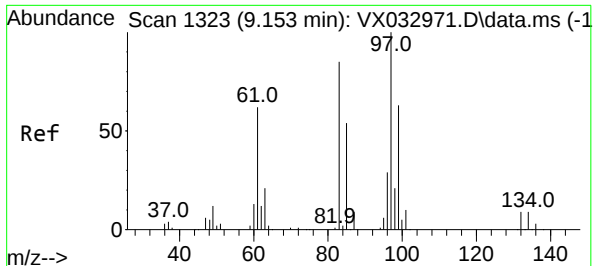
Tgt Ion: 43 Resp: 1384

Ion Ratio Lower Upper

43 100

58 154.6 30.9 46.3#





#55

1,1,2-Trichloroethane

Concen: 0.368 ug/l

RT: 9.110 min Scan# 1

Delta R.T. -0.043 min

Lab File: VX033267.D

Acq: 06 Dec 2022 18:32

Instrument :

MSVOA_X

ClientSampleId :

MW-44DL

Tgt Ion: 97 Resp: 408

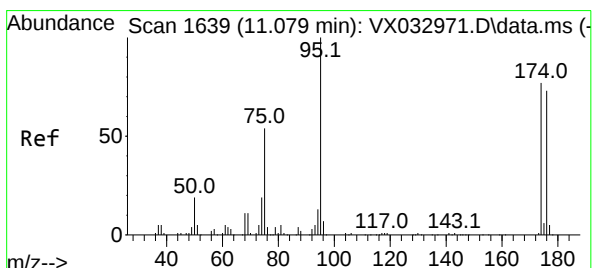
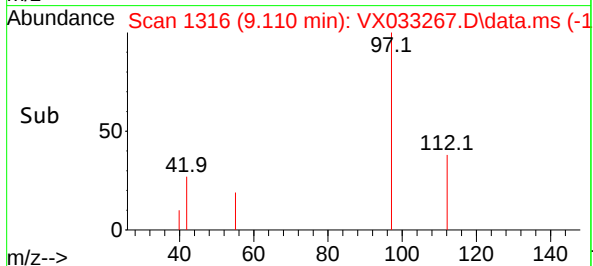
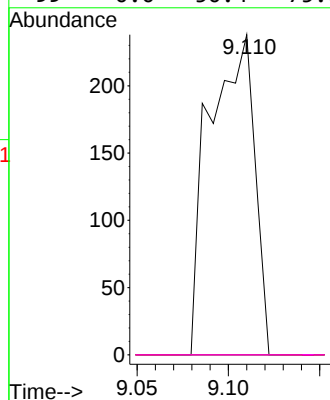
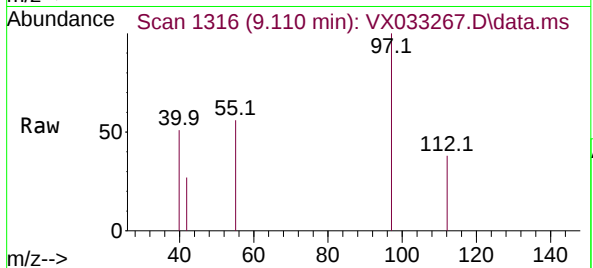
Ion Ratio Lower Upper

97 100

83 0.0 68.1 102.1#

85 0.0 43.3 64.9#

99 0.0 50.4 75.6#



#62

4-Bromofluorobenzene

Concen: 77.578 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX033267.D

Acq: 06 Dec 2022 18:32

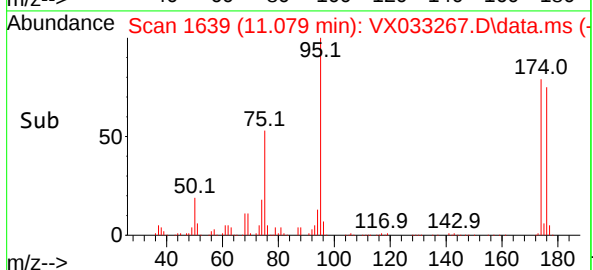
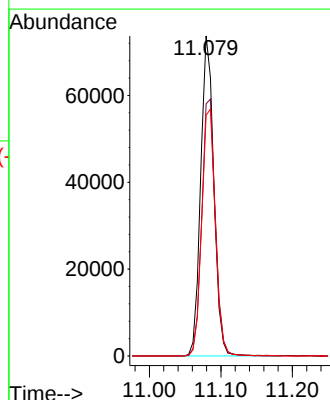
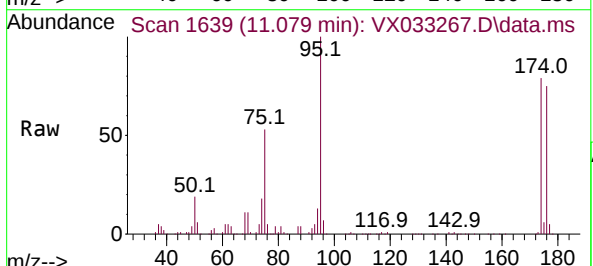
Tgt Ion: 95 Resp: 93981

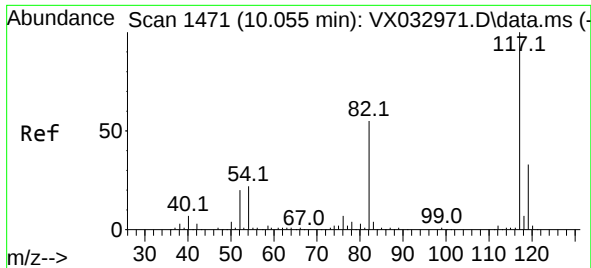
Ion Ratio Lower Upper

95 100

174 83.1 0.0 164.0

176 80.1 0.0 154.4

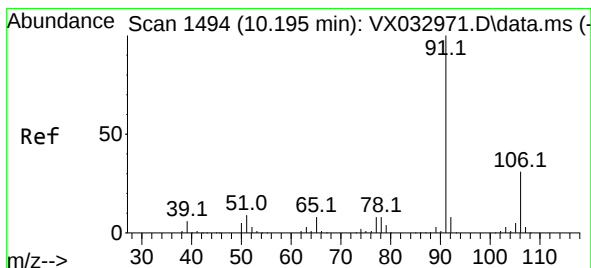
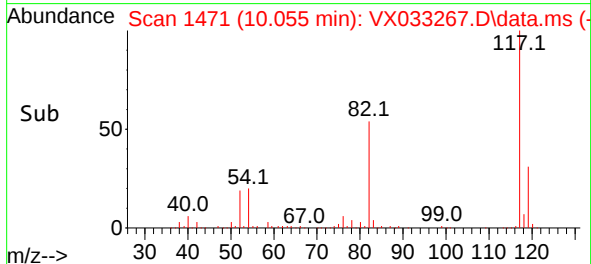
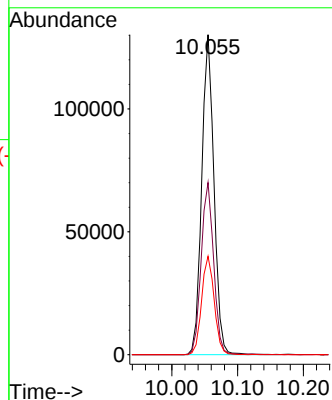
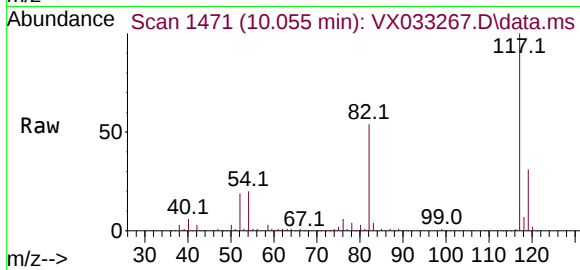




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

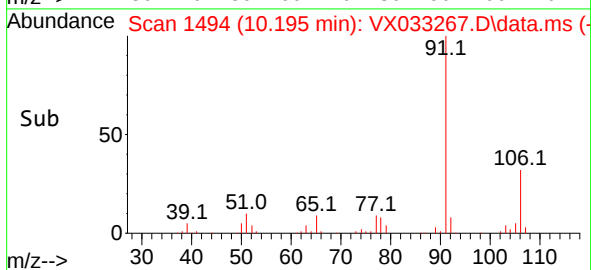
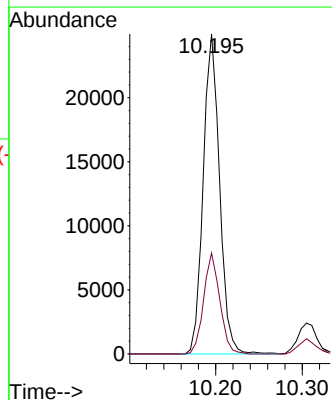
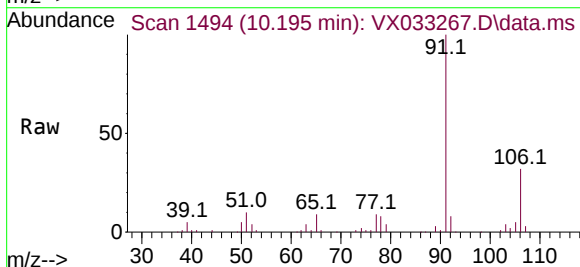
Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

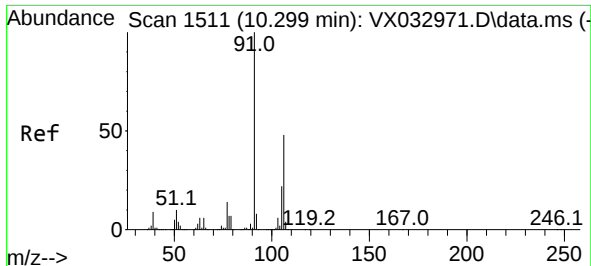
Tgt Ion:117 Resp: 168155
Ion Ratio Lower Upper
117 100
82 53.8 44.3 66.5
119 30.7 25.7 38.5



#67
Ethyl Benzene
Concen: 5.514 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion: 91 Resp: 32793
Ion Ratio Lower Upper
91 100
106 31.6 25.0 37.6

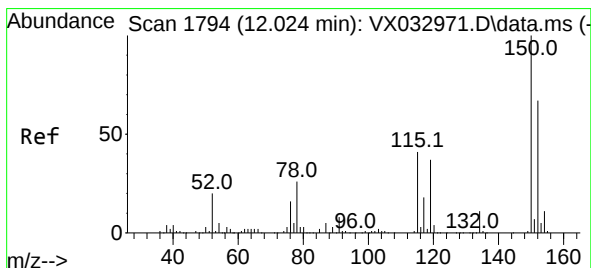
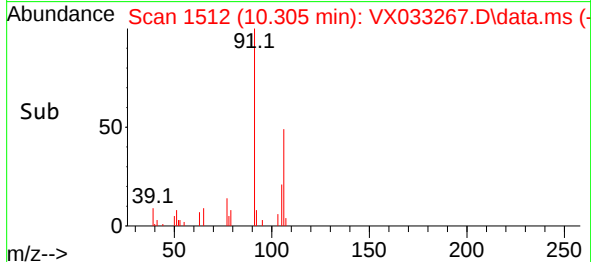
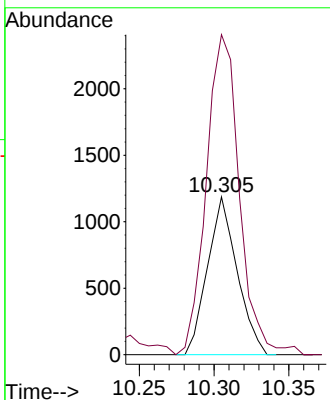
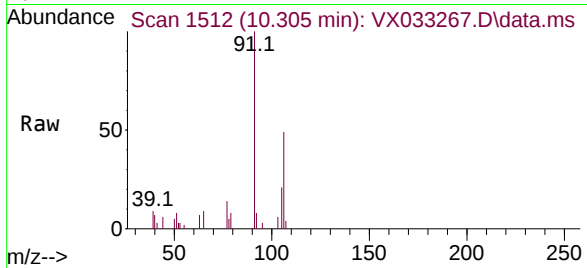




#68
m/p-Xylenes
Concen: 0.703 ug/l
RT: 10.305 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

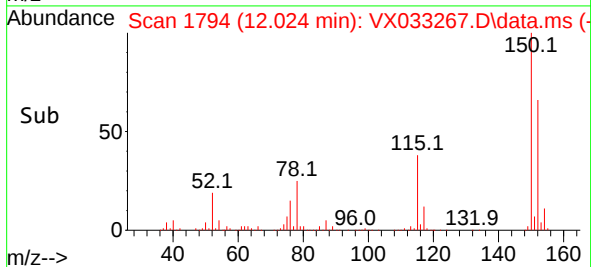
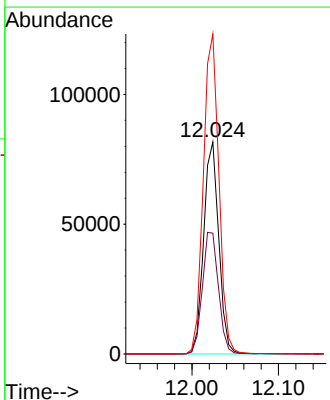
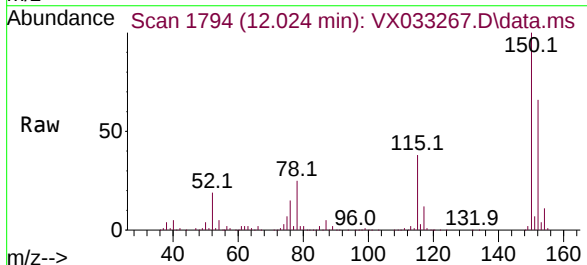
Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

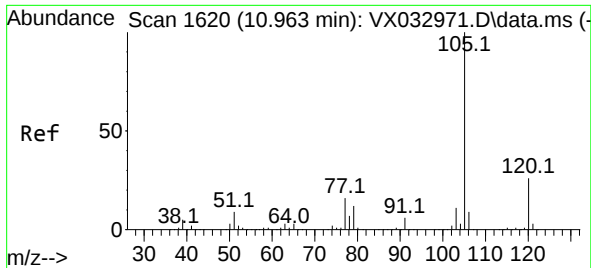
Tgt Ion:106 Resp: 1637
Ion Ratio Lower Upper
106 100
91 226.1 164.5 246.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion:152 Resp: 98815
Ion Ratio Lower Upper
152 100
115 61.2 44.0 132.0
150 155.8 0.0 351.8

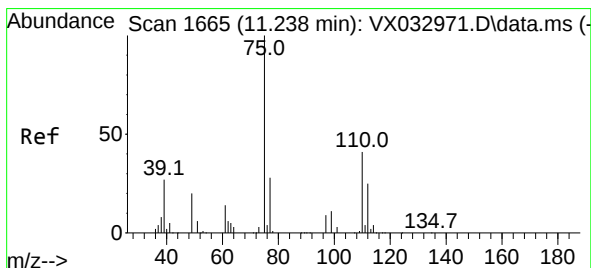
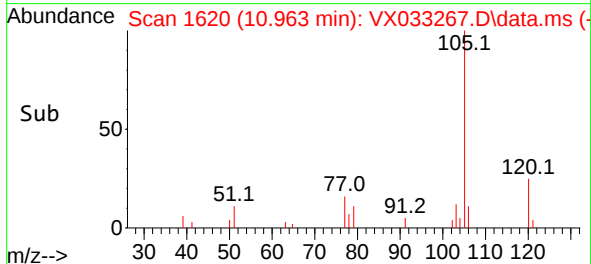
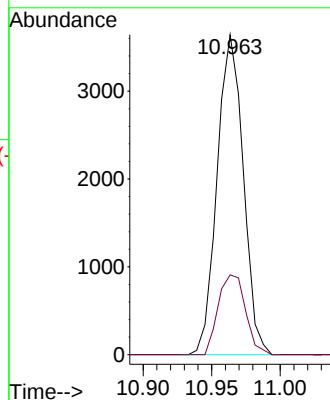
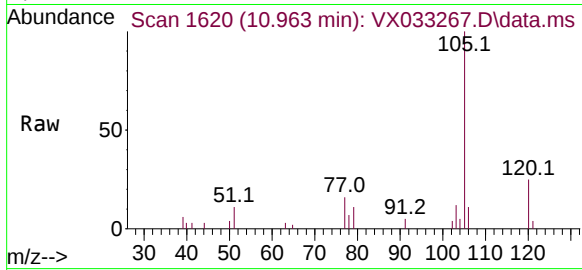




#73
Isopropylbenzene
Concen: 0.684 ug/l
RT: 10.963 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

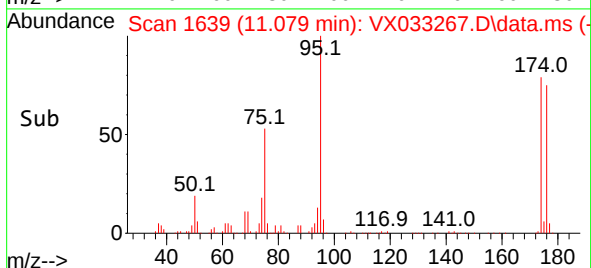
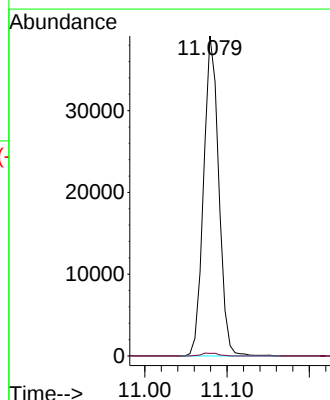
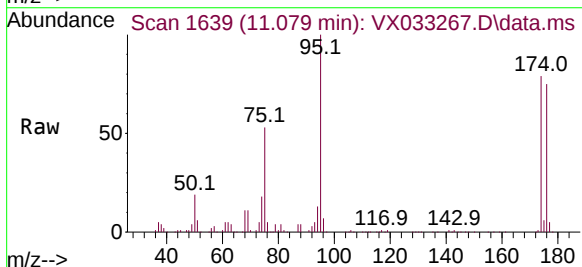
Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

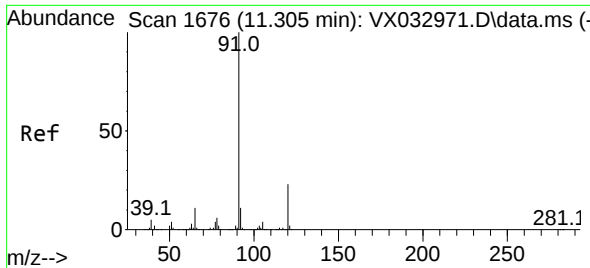
Tgt Ion:105 Resp: 4829
Ion Ratio Lower Upper
105 100
120 26.0 13.1 39.3



#76
1,2,3-Trichloropropane
Concen: 26.763 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion: 75 Resp: 50085
Ion Ratio Lower Upper
75 100
77 1.0 20.0 60.0#

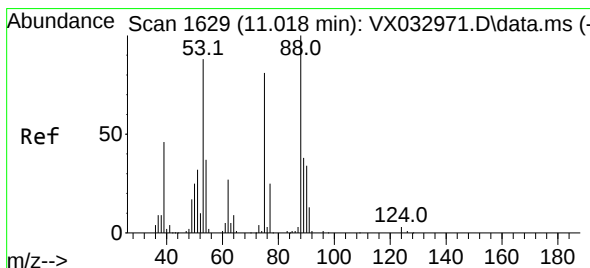
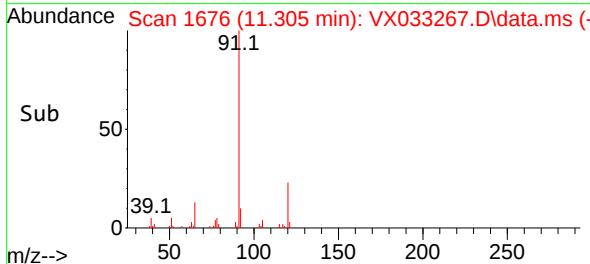
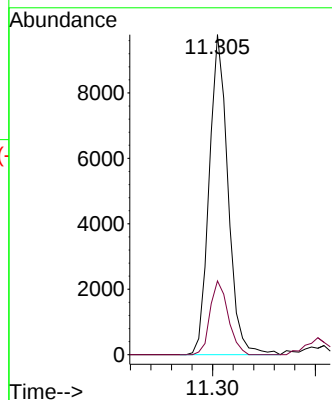
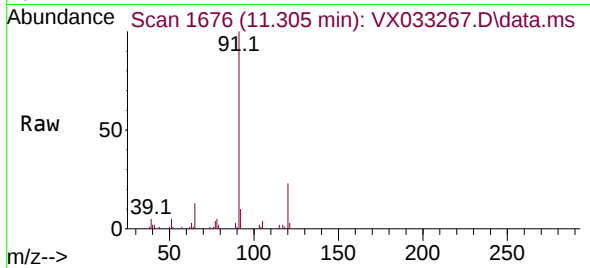




#78
n-propylbenzene
Concen: 1.542 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

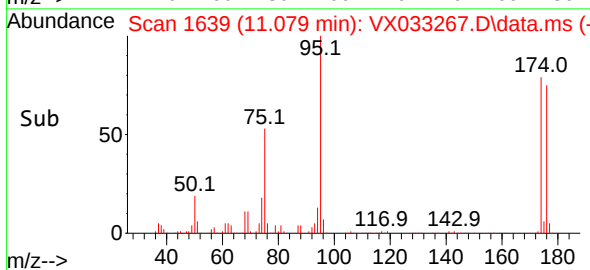
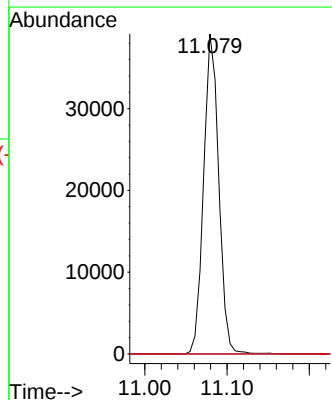
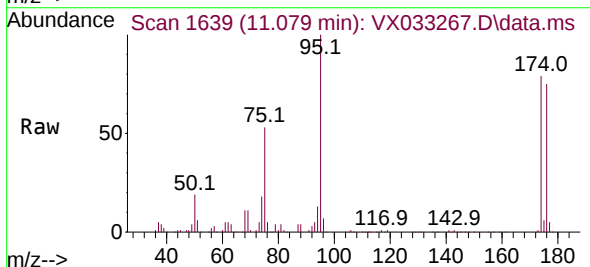
Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

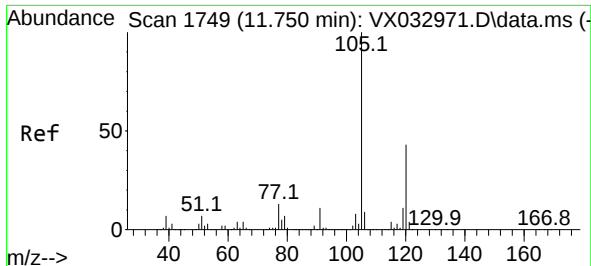
Tgt Ion: 91 Resp: 12450
Ion Ratio Lower Upper
91 100
120 22.2 11.6 34.8



#81
trans-1,4-Dichloro-2-butene
Concen: 86.993 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion: 75 Resp: 50085
Ion Ratio Lower Upper
75 100
53 0.0 86.9 130.3#
89 0.0 38.3 57.5#

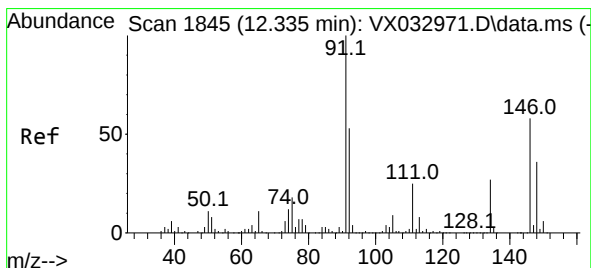
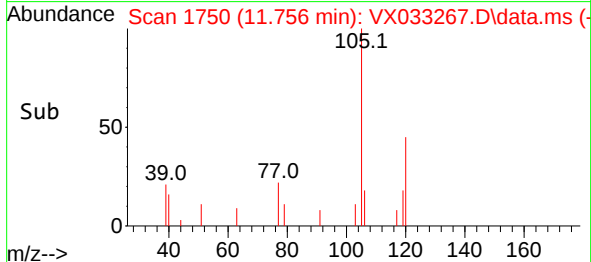
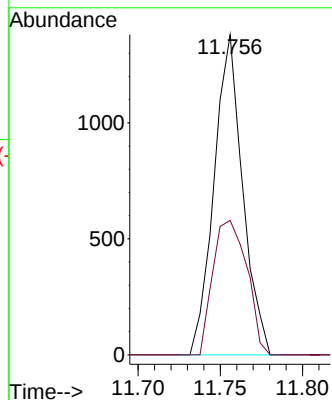
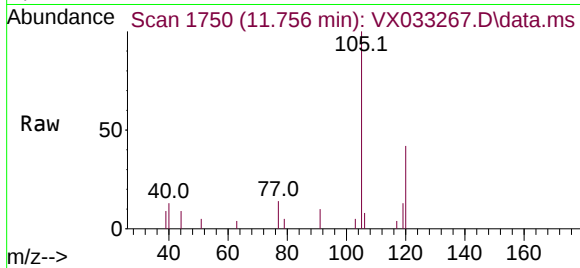




#84
1,2,4-Trimethylbenzene
Concen: 0.282 ug/l
RT: 11.756 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

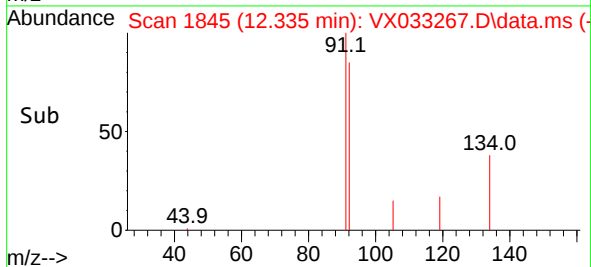
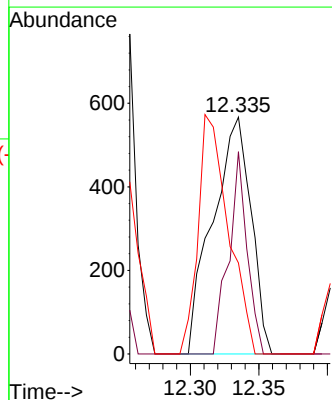
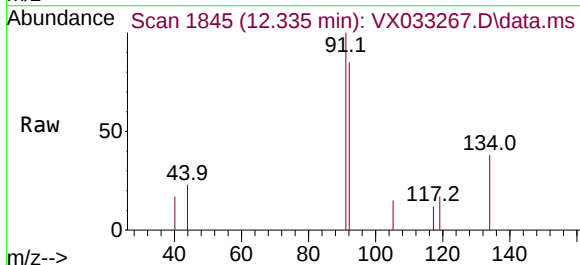
Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

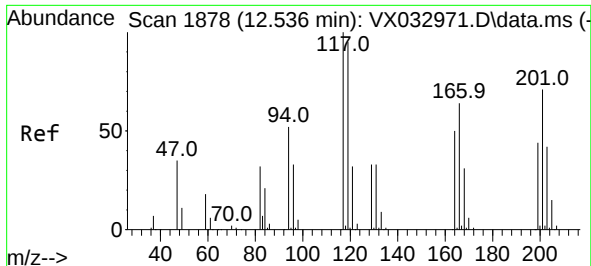
Tgt Ion:105 Resp: 1668
Ion Ratio Lower Upper
105 100
120 50.0 21.9 65.5



#89
n-Butylbenzene
Concen: 0.215 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion: 91 Resp: 1106
Ion Ratio Lower Upper
91 100
92 40.7 26.2 78.6
134 0.0 12.9 38.6#

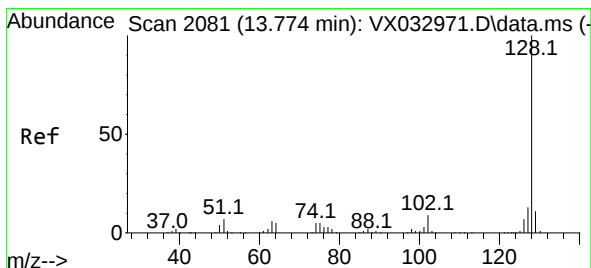
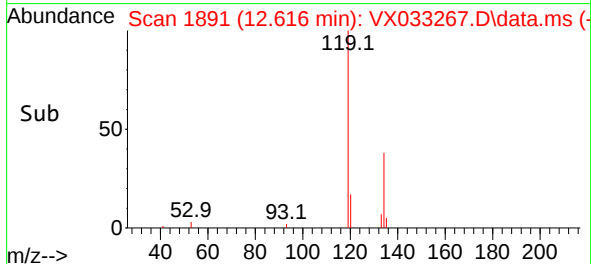
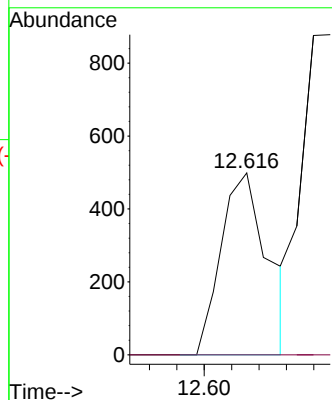
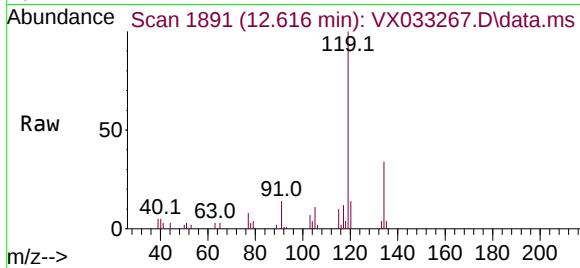




#90
Hexachloroethane
Concen: 0.602 ug/l
RT: 12.616 min Scan# 1878
Delta R.T. 0.074 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Instrument :
MSVOA_X
ClientSampleId :
MW-44DL

Tgt Ion:117 Resp: 592
Ion Ratio Lower Upper
117 100
201 0.0 37.6 112.9#



#95
Naphthalene
Concen: 1.773 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.006 min
Lab File: VX033267.D
Acq: 06 Dec 2022 18:32

Tgt Ion:128 Resp: 11200
Ion Ratio Lower Upper
128 100
127 12.2 10.2 15.4
129 10.9 8.9 13.3

