

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033377.D
 Acq On : 12 Dec 2022 16:14
 Operator : JC/MD
 Sample : N5939-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(DEC)

Quant Time: Dec 13 07:31:52 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

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

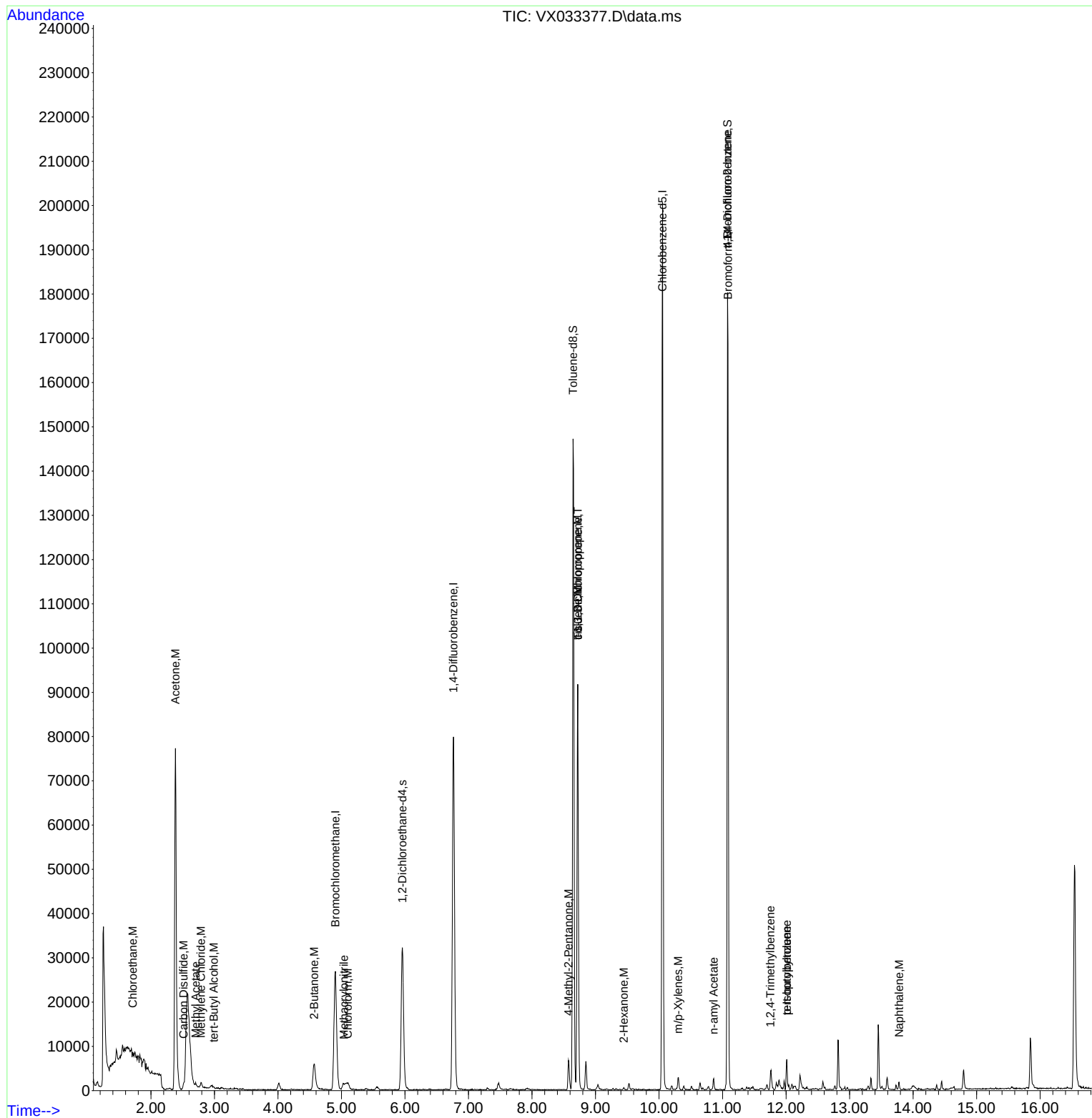
Internal Standards						
1) Bromochloromethane	4.904	128	12162	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	83631	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	88743	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	33280	31.157	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.867%			
60) 4-Bromofluorobenzene	11.079	95	48214	29.334	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.767%			
63) Toluene-d8	8.647	98	88379	29.938	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.800%			
Target Compounds						
					Qvalue	
6) Chloroethane	1.715	64	329	0.414	ug/l #	76
12) Methyl Acetate	2.703	43	648	0.438	ug/l	96
15) Acetone	2.386	58	26843	145.361	ug/l	99
16) Carbon Disulfide	2.514	76	1837	0.651	ug/l	97
18) Methylene Chloride	2.788	84	543	0.446	ug/l	94
23) tert-Butyl Alcohol	2.989	59	255	1.112	ug/l #	1
25) Chloroform	5.099	83	1102	0.454	ug/l #	77
30) 2-Butanone	4.568	43	10948	13.856	ug/l #	96
35) Methacrylonitrile	5.038	41	363	0.448	ug/l #	23
47) n-amyl Acetate	10.860	43	459	0.227	ug/l #	18
48) t-1,3-Dichloropropene	8.720	75	410	0.216	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	410	0.201	ug/l #	1
56) Bromoform	11.085	173	371	0.335	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	4314	3.006	ug/l	91
59) 2-Hexanone	9.445	43	302	0.275	ug/l #	67
62) Toluene	8.720	91	59208	10.992	ug/l	99
67) m/p-Xylenes	10.299	106	870	0.367	ug/l	89
77) t-1,4-Dichloro-2-butene	11.079	75	24707	45.995	ug/l #	9
79) tert-butylbenzene	12.012	119	3254	0.637	ug/l	66
80) 1,2,4-Trimethylbenzene	11.756	105	1301	0.257	ug/l	82
82) p-Isopropyltoluene	12.012	119	3254	0.621	ug/l	95
91) Naphthalene	13.780	128	1341	0.244	ug/l #	93

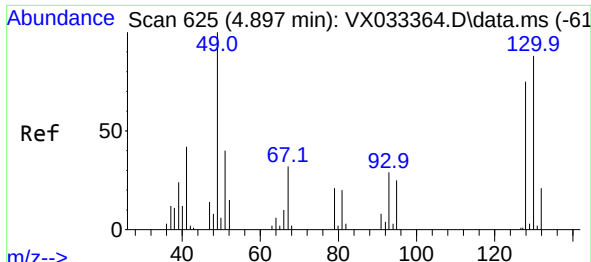
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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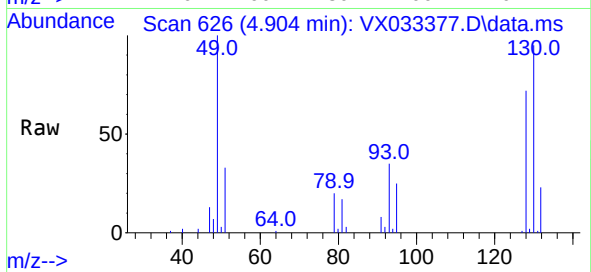
Quant Time: Dec 13 07:31:52 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Dec 12 12:37:35 2022
Response via : Initial Calibration



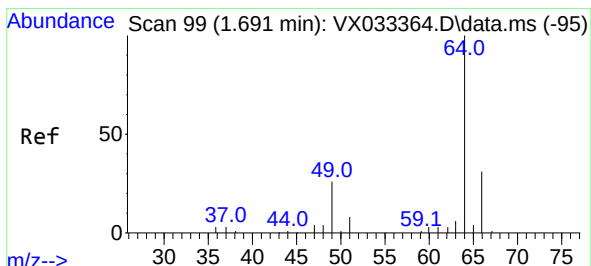
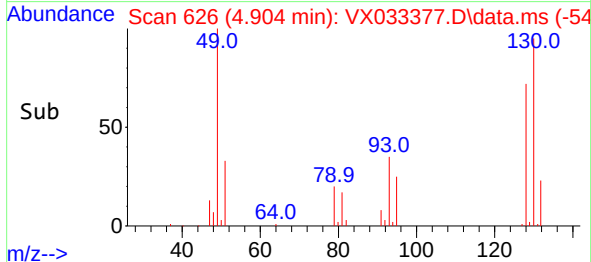
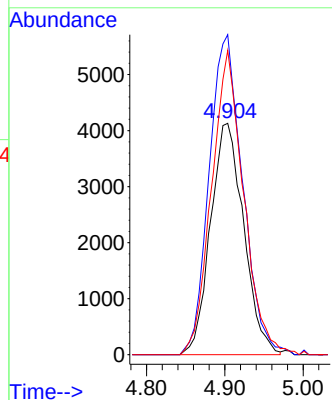


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

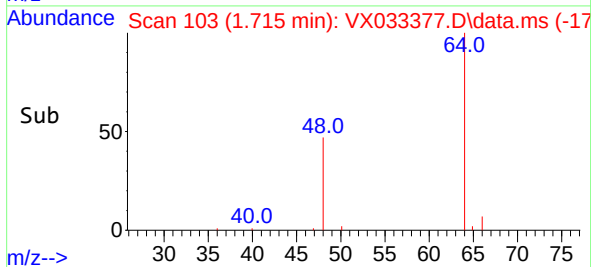
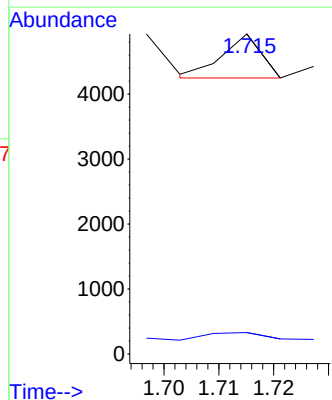
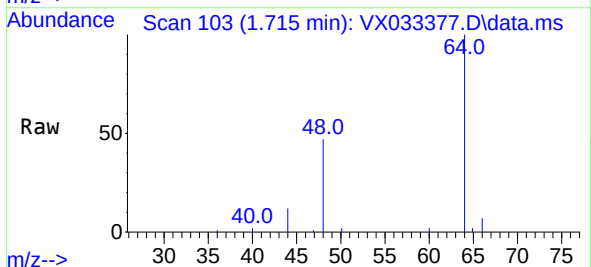


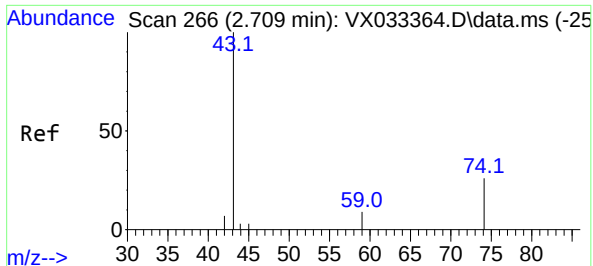
Tgt Ion:128 Resp: 12162
Ion Ratio Lower Upper
128 100
49 139.5 0.0 339.5
130 127.2 0.0 318.0



#6
Chloroethane
Concen: 0.414 ug/l
RT: 1.715 min Scan# 103
Delta R.T. 0.024 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Tgt Ion: 64 Resp: 329
Ion Ratio Lower Upper
64 100
66 17.6 24.8 37.2#

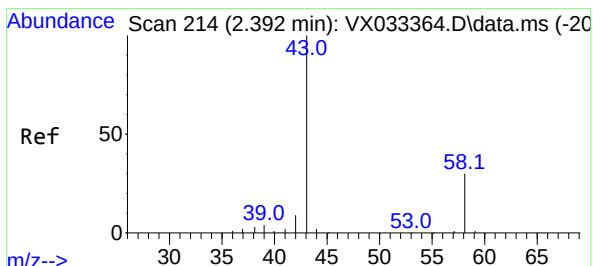
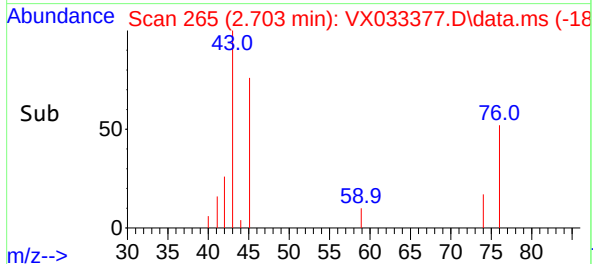
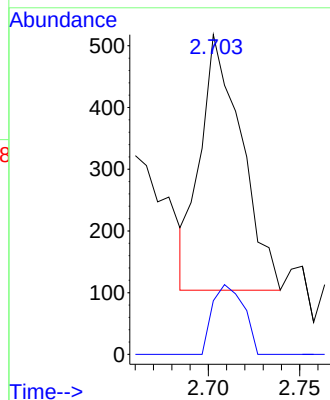
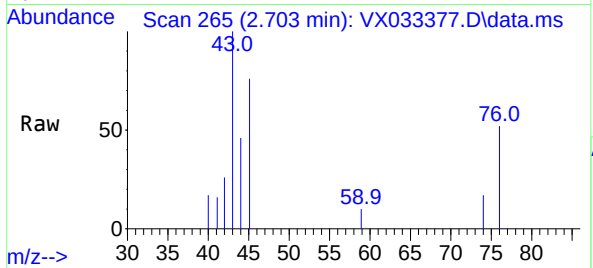




#12
Methyl Acetate
Concen: 0.438 ug/l
RT: 2.703 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

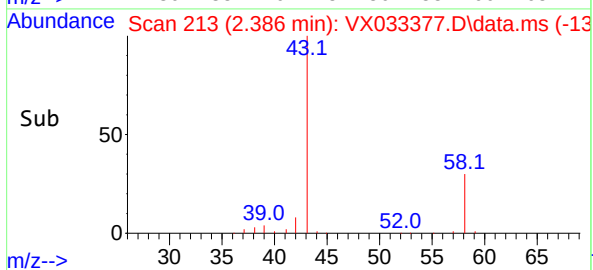
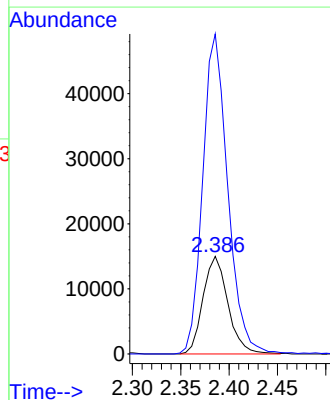
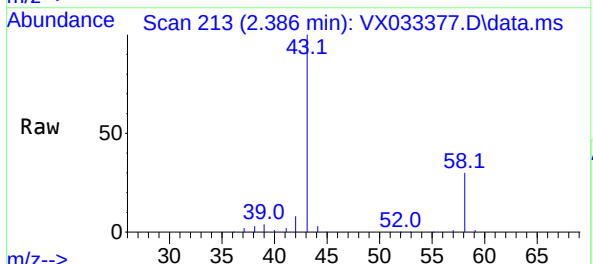
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

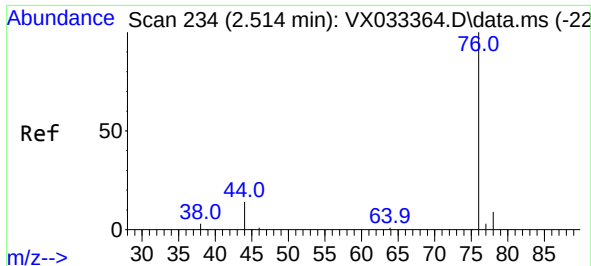
Tgt Ion: 43 Resp: 648
Ion Ratio Lower Upper
43 100
74 23.9 20.6 31.0



#15
Acetone
Concen: 145.361 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Tgt Ion: 58 Resp: 26843
Ion Ratio Lower Upper
58 100
43 326.9 262.9 394.3

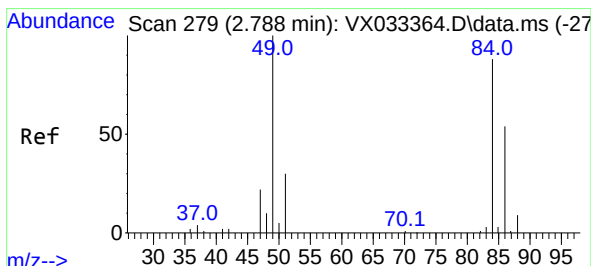
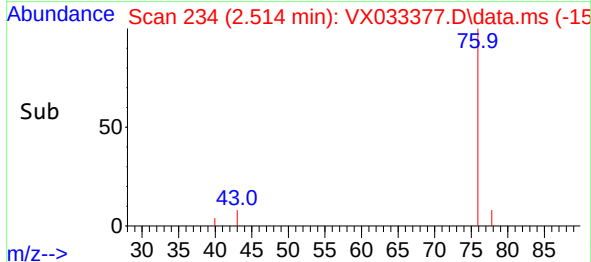
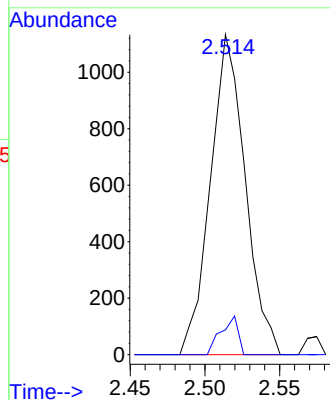
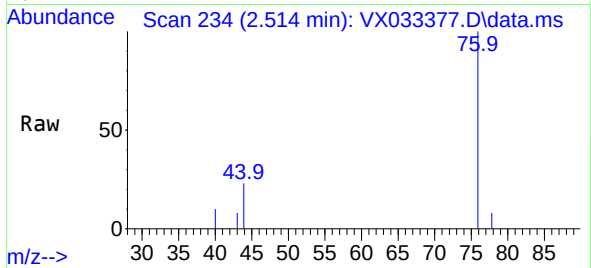




#16
Carbon Disulfide
Concen: 0.651 ug/l
RT: 2.514 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

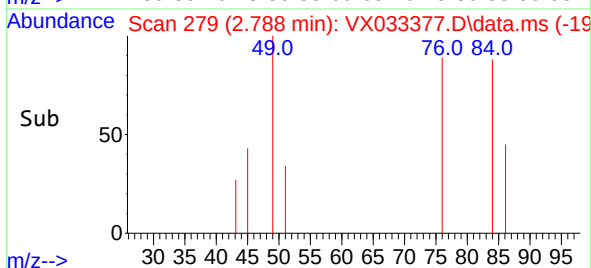
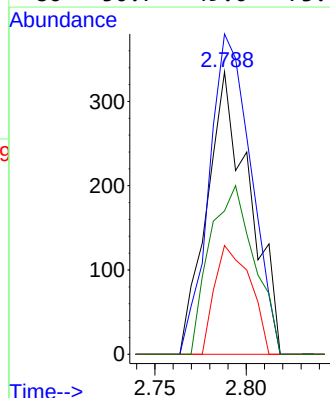
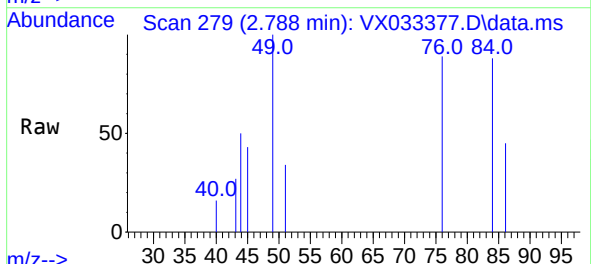
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

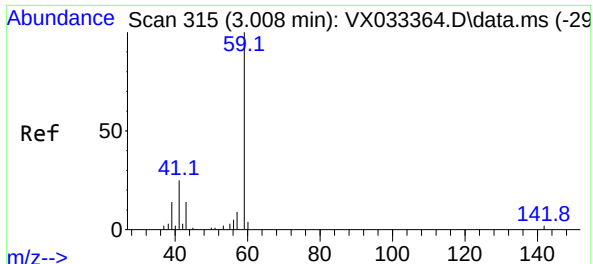
Tgt Ion: 76 Resp: 1837
Ion Ratio Lower Upper
76 100
78 7.8 7.0 10.4



#18
Methylene Chloride
Concen: 0.446 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Tgt Ion: 84 Resp: 543
Ion Ratio Lower Upper
84 100
49 113.4 91.2 136.8
51 38.5 27.3 40.9
86 50.7 49.0 73.4

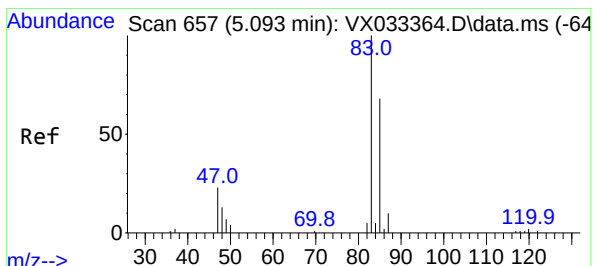
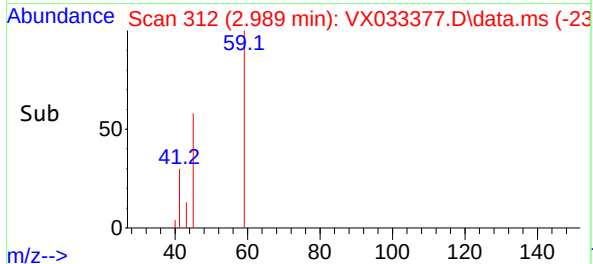
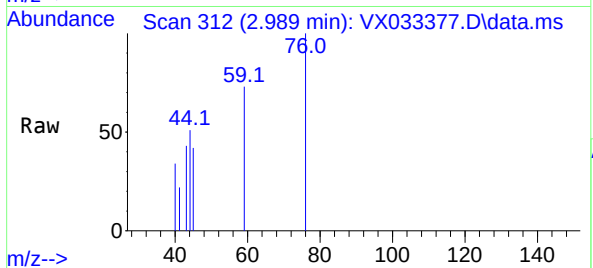




#23
tert-Butyl Alcohol
Concen: 1.112 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.018 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

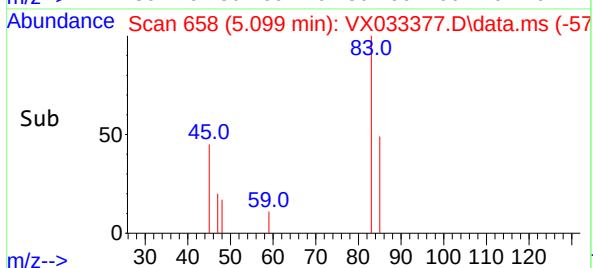
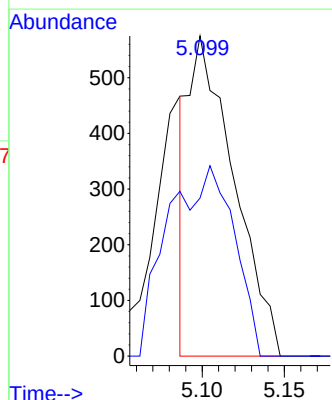
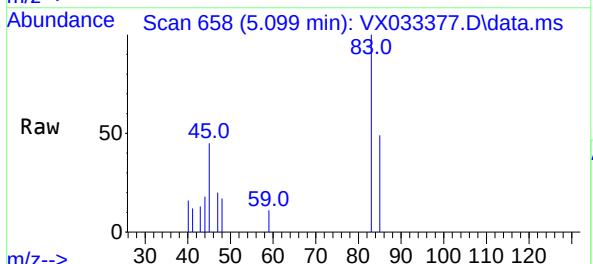
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

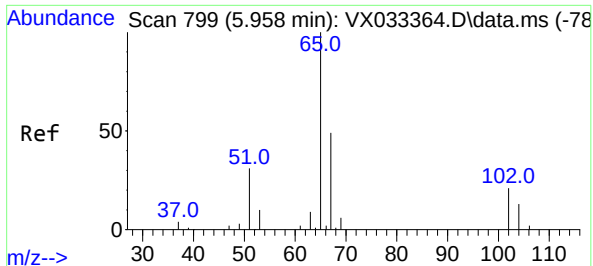
Tgt Ion: 59 Resp: 255
Ion Ratio Lower Upper
59 100
52 0.0 149.0 223.6#



#25
Chloroform
Concen: 0.454 ug/l
RT: 5.099 min Scan# 658
Delta R.T. 0.006 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Tgt Ion: 83 Resp: 1102
Ion Ratio Lower Upper
83 100
85 49.4 54.2 81.2#

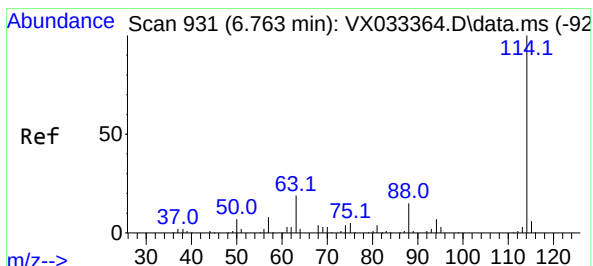
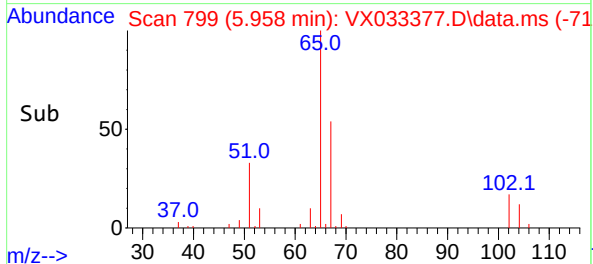
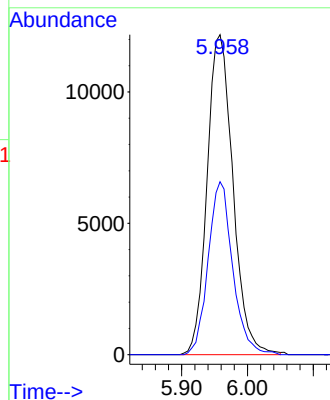
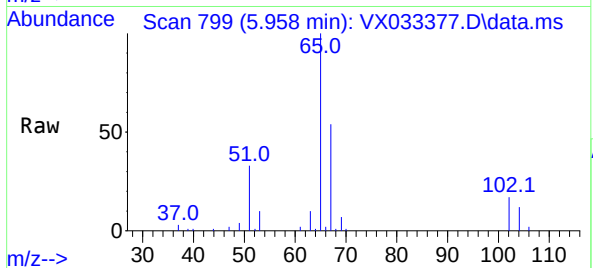




#27
1,2-Dichloroethane-d4
Concen: 31.157 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

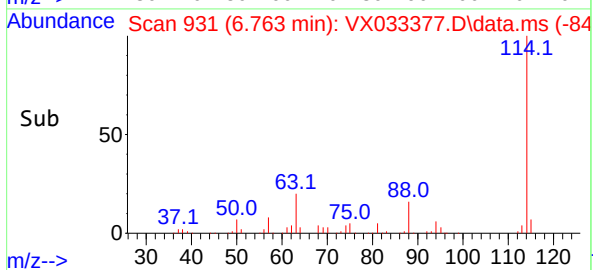
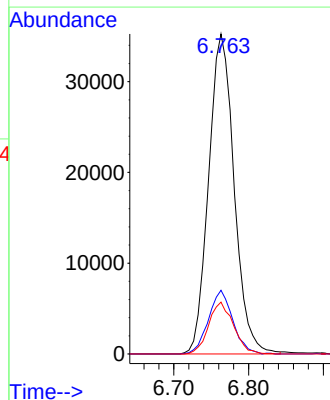
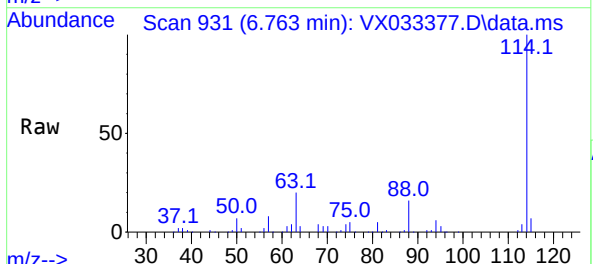
Instrument :
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ClientSampleId :
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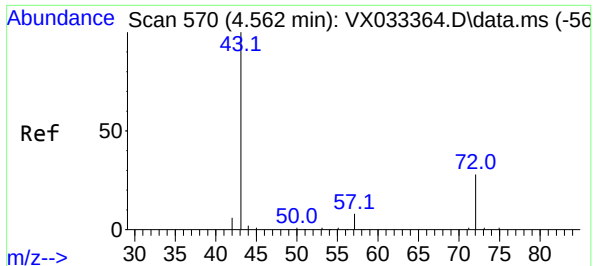
Tgt Ion: 65 Resp: 33280
Ion Ratio Lower Upper
65 100
67 51.3 39.8 59.8



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Tgt Ion: 114 Resp: 83631
Ion Ratio Lower Upper
114 100
63 19.0 15.2 22.8
88 15.8 12.2 18.4





#30

2-Butanone

Concen: 13.856 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(DEC)

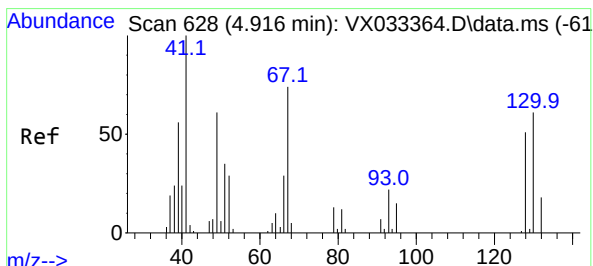
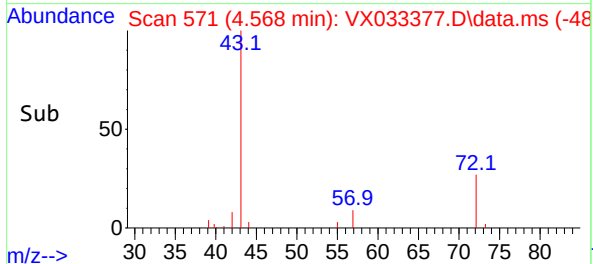
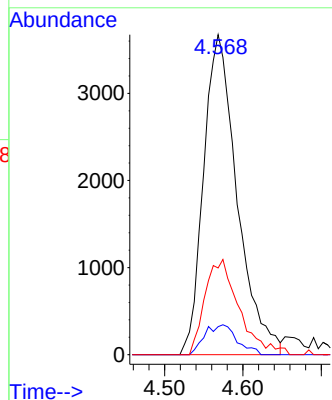
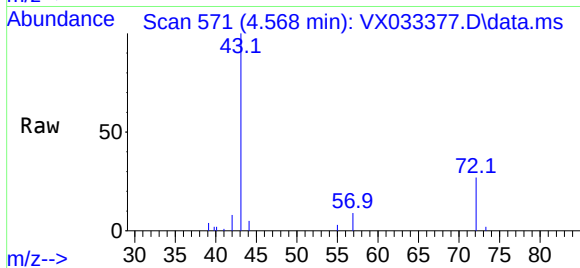
Tgt Ion: 43 Resp: 10948

Ion Ratio Lower Upper

43 100

57 4.0 6.6 9.8#

72 29.1 22.5 33.7



#35

Methacrylonitrile

Concen: 0.448 ug/l

RT: 5.038 min Scan# 648

Delta R.T. 0.122 min

Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

Tgt Ion: 41 Resp: 363

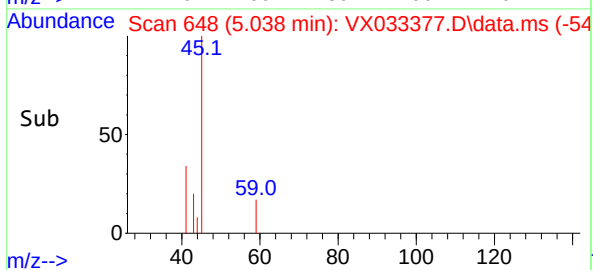
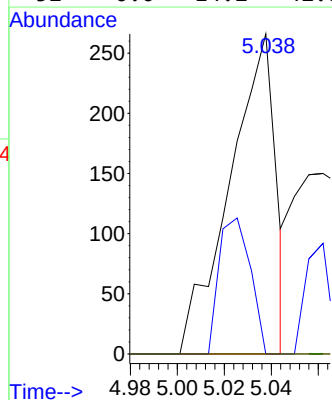
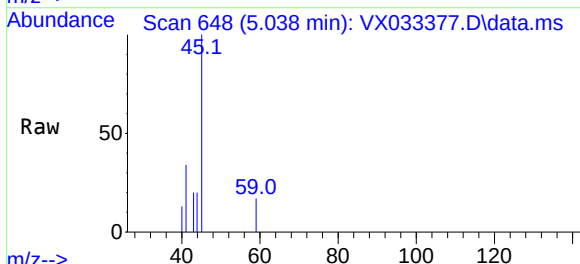
Ion Ratio Lower Upper

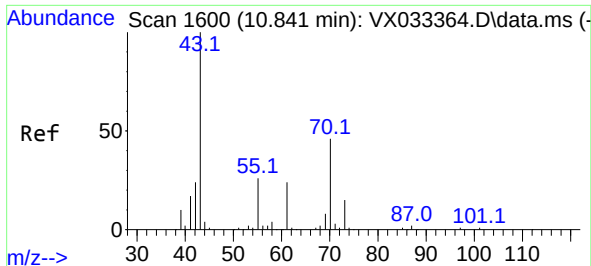
41 100

39 0.0 27.8 83.3#

67 0.0 37.0 110.9#

52 0.0 14.2 42.8#





#47

n-amy1 Acetate

Concen: 0.227 ug/l

RT: 10.860 min Scan# 1

Delta R.T. 0.018 min

Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

Instrument :

MSVOA_X

ClientSampleId :

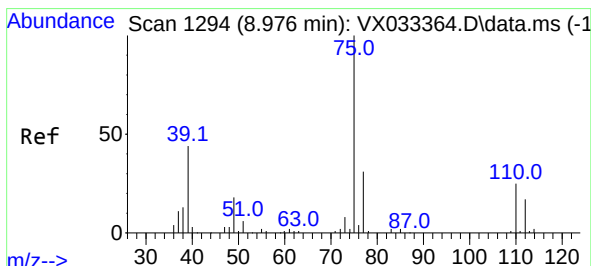
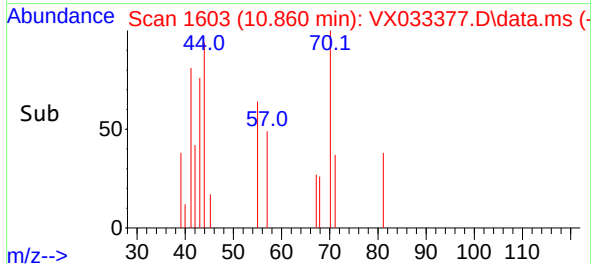
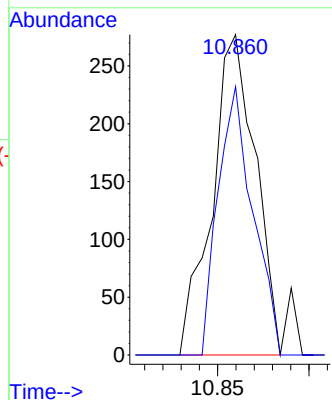
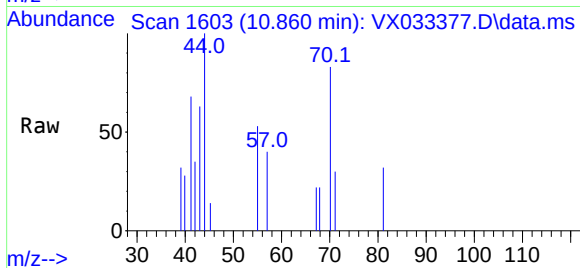
002-35TH-AVE(DEC)

Tgt Ion: 43 Resp: 459

Ion Ratio Lower Upper

43 100

55 67.1 20.6 30.8#



#48

t-1,3-Dichloropropene

Concen: 0.216 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.256 min

Lab File: VX033377.D

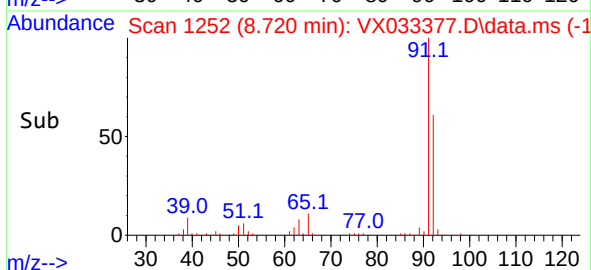
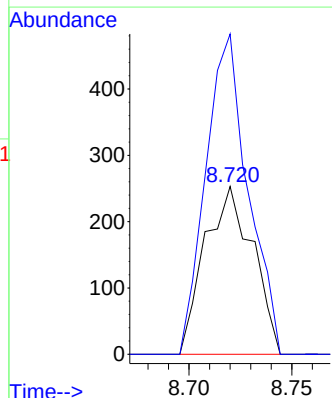
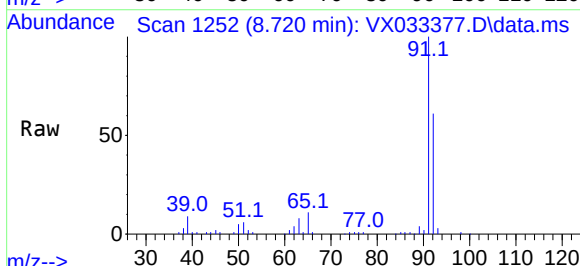
Acq: 12 Dec 2022 16:14

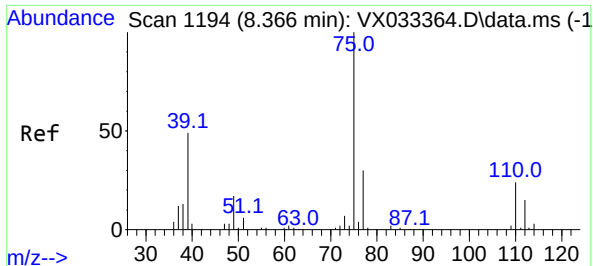
Tgt Ion: 75 Resp: 410

Ion Ratio Lower Upper

75 100

77 190.9 25.0 37.4#





#49

cis-1,3-Dichloropropene

Concen: 0.201 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.354 min

Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

Instrument :

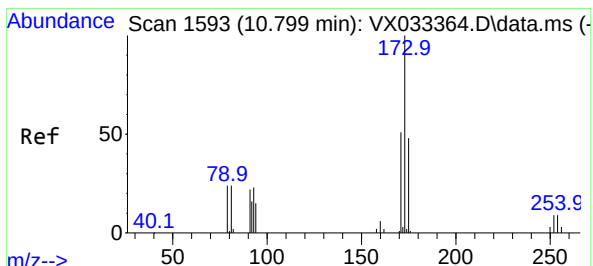
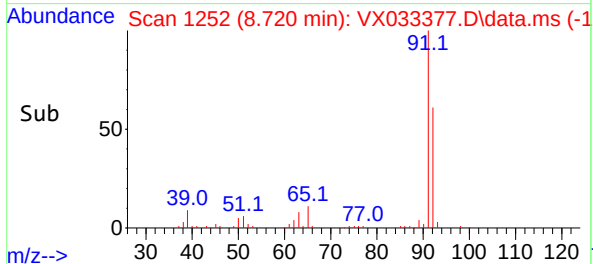
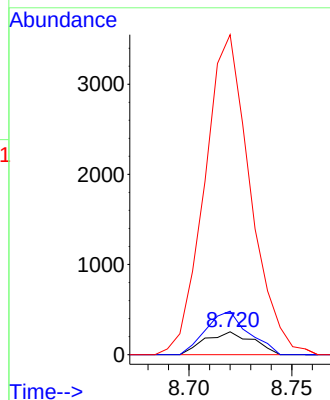
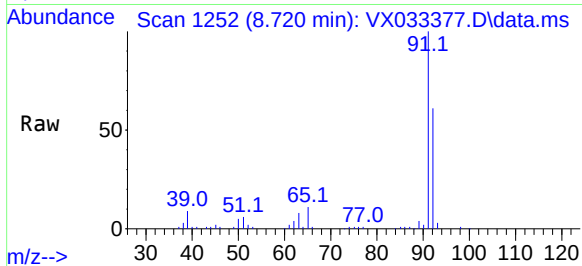
MSVOA_X

ClientSampleId :

002-35TH-AVE(DEC)

Tgt Ion: 75 Resp: 410

Ion	Ratio	Lower	Upper
75	100		
77	190.9	24.2	36.4#
39	1311.1	39.3	58.9#



#56

Bromoform

Concen: 0.335 ug/l

RT: 11.085 min Scan# 1640

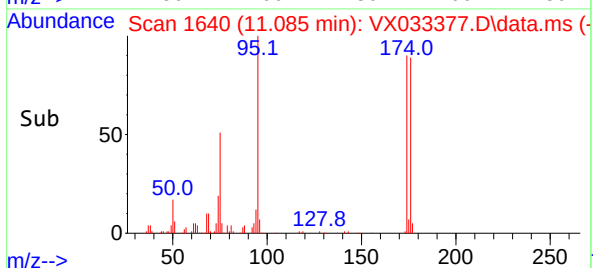
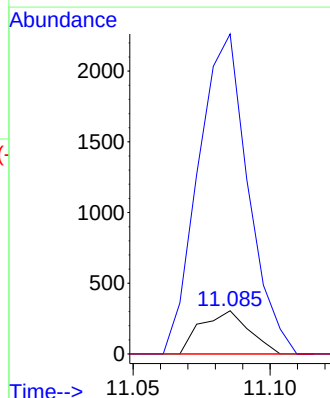
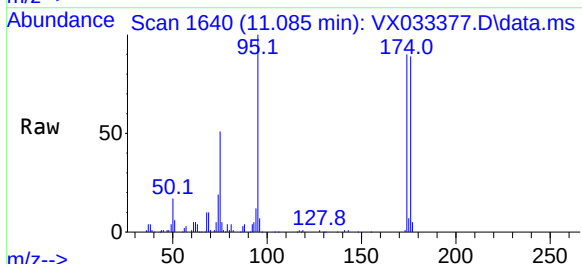
Delta R.T. 0.287 min

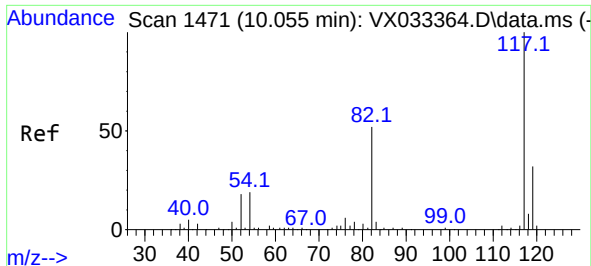
Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

Tgt Ion: 173 Resp: 371

Ion	Ratio	Lower	Upper
173	100		
175	772.0	39.6	59.4#
254	0.0	7.1	10.7#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(DEC)

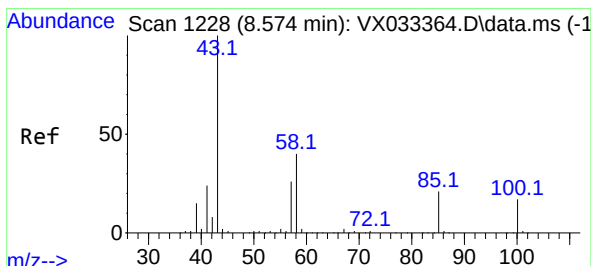
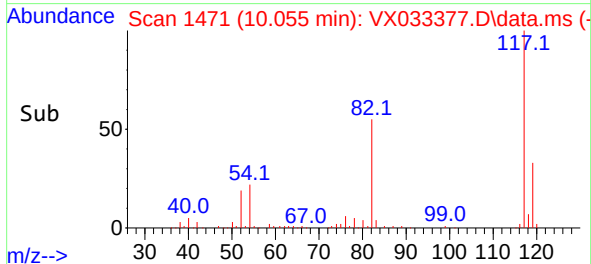
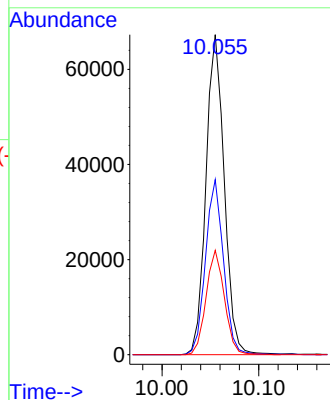
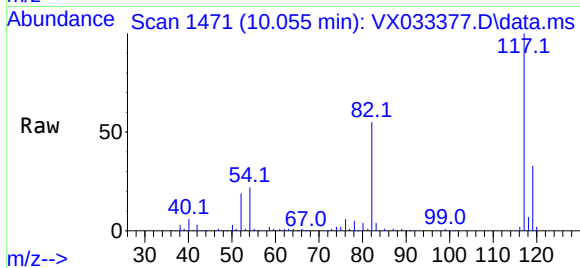
Tgt Ion:117 Resp: 88743

Ion Ratio Lower Upper

117 100

82 54.1 43.7 65.5

119 32.8 25.6 38.4



#58

4-Methyl-2-Pentanone

Concen: 3.006 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

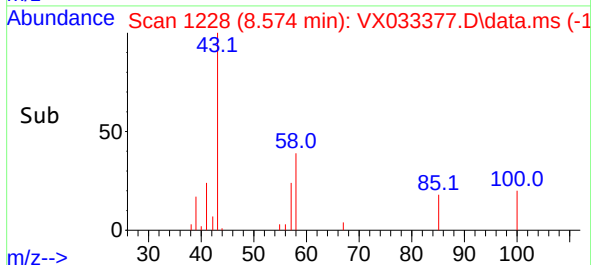
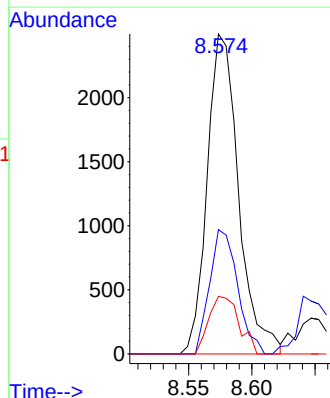
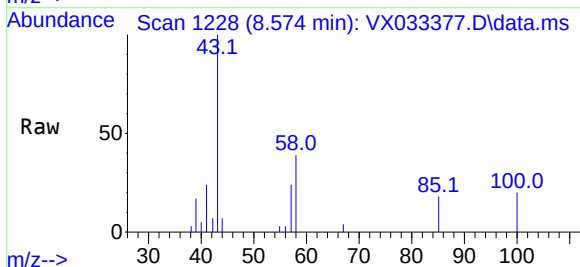
Tgt Ion: 43 Resp: 4314

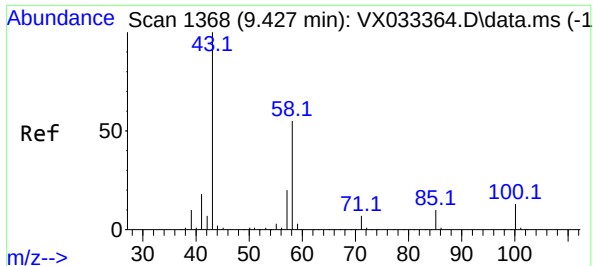
Ion Ratio Lower Upper

43 100

58 34.6 32.3 48.5

85 17.3 16.6 24.8





#59

2-Hexanone

Concen: 0.275 ug/l

RT: 9.445 min Scan# 11

Delta R.T. 0.018 min

Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

Instrument :

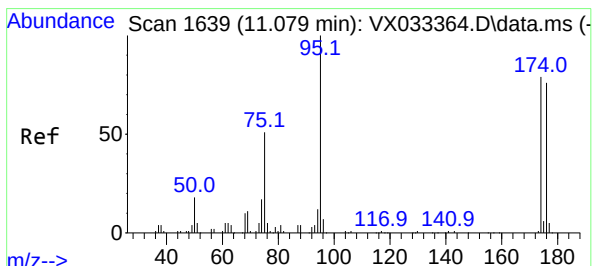
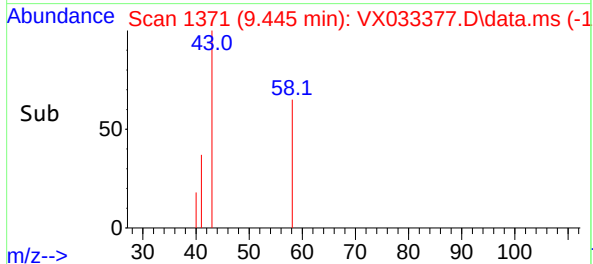
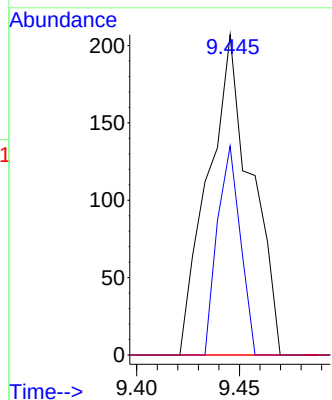
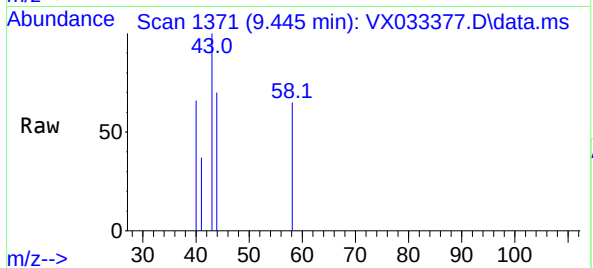
MSVOA_X

ClientSampleId :

002-35TH-AVE(DEC)

Tgt Ion: 43 Resp: 302

Ion	Ratio	Lower	Upper
43	100		
58	34.8	44.4	66.6#
57	0.0	16.2	24.2#



#60

4-Bromofluorobenzene

Concen: 29.334 ug/l

RT: 11.079 min Scan# 1639

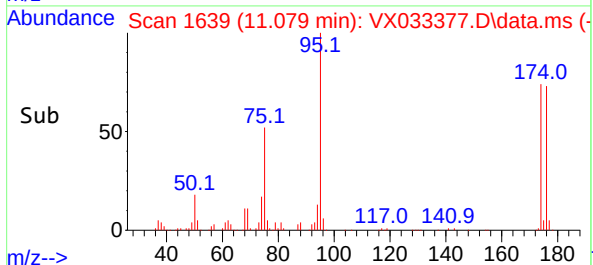
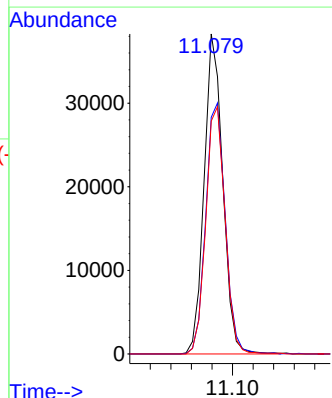
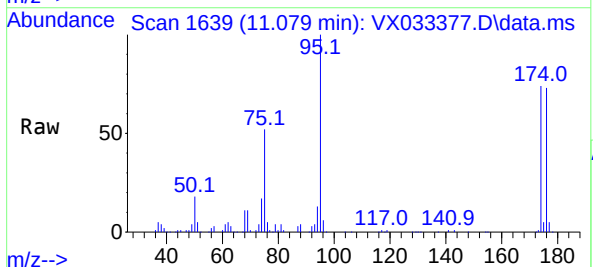
Delta R.T. 0.000 min

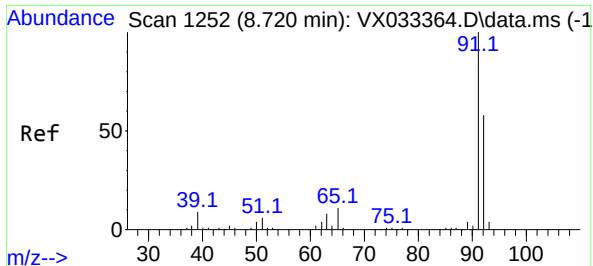
Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

Tgt Ion: 95 Resp: 48214

Ion	Ratio	Lower	Upper
95	100		
174	82.1	65.9	98.9
176	79.8	63.3	94.9





#62

Toluene

Concen: 10.992 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX033377.D

Acq: 12 Dec 2022 16:14

Instrument :

MSVOA_X

ClientSampleId :

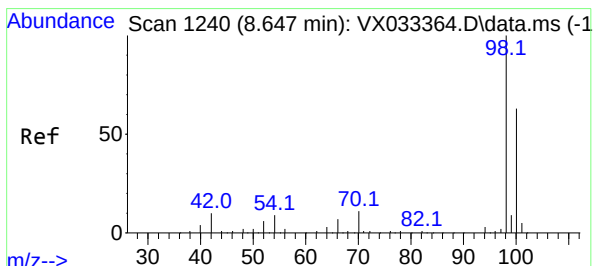
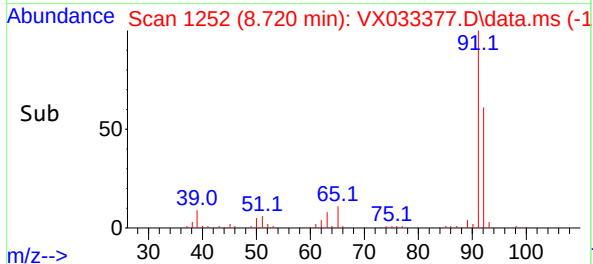
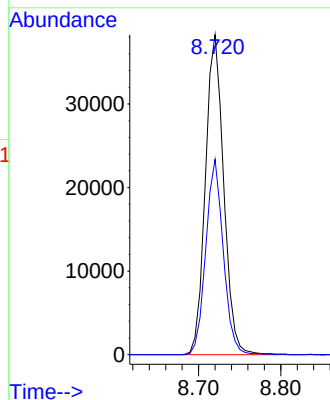
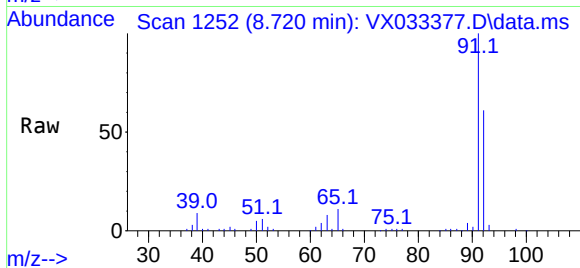
002-35TH-AVE(DEC)

Tgt Ion: 91 Resp: 59208

Ion Ratio Lower Upper

91 100

92 58.2 46.2 69.2



#63

Toluene-d8

Concen: 29.938 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX033377.D

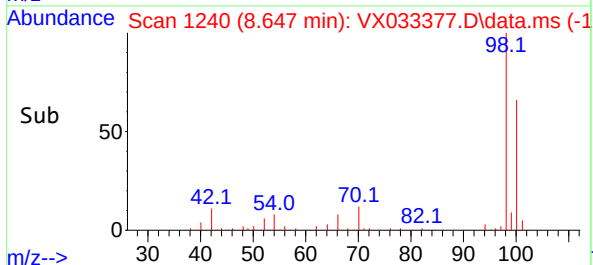
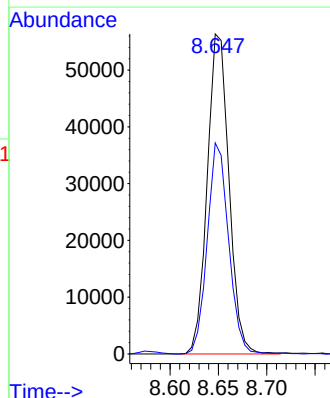
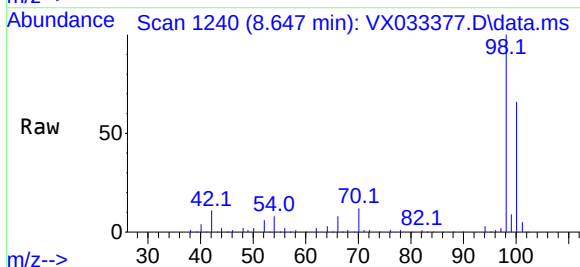
Acq: 12 Dec 2022 16:14

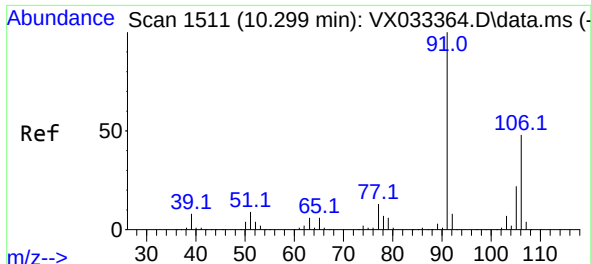
Tgt Ion: 98 Resp: 88379

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.2

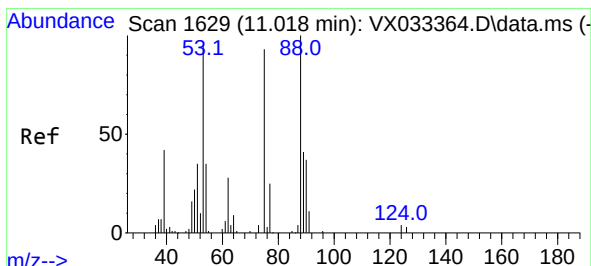
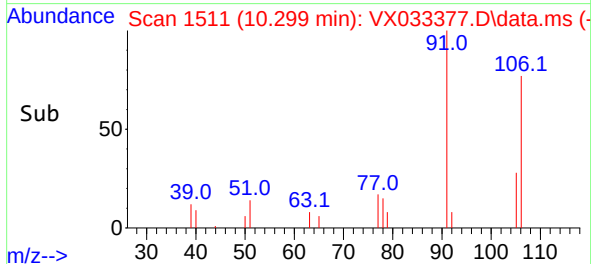
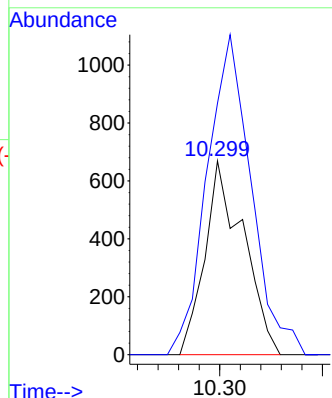
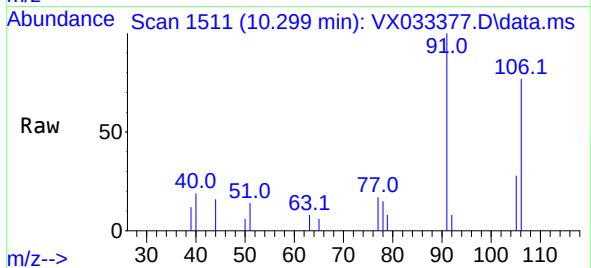




#67
m/p-Xylenes
Concen: 0.367 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

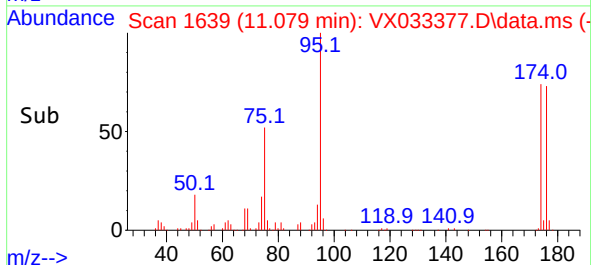
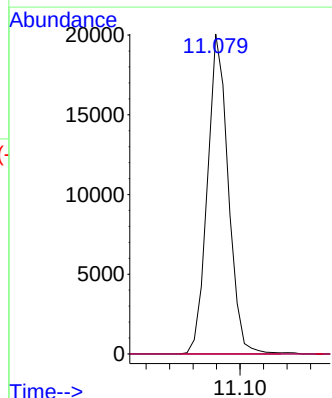
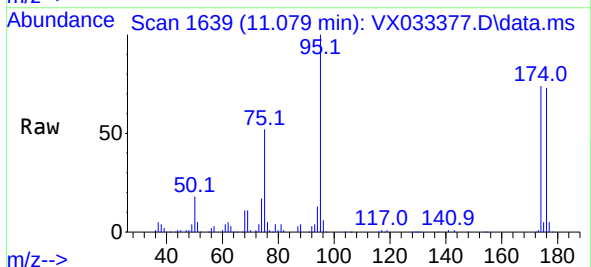
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

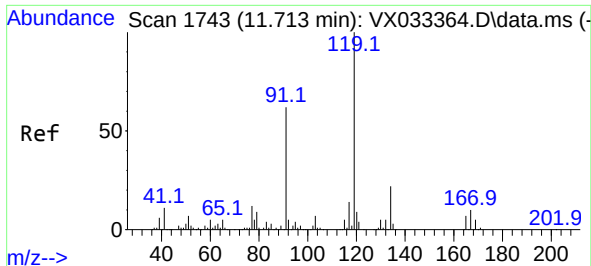
Tgt Ion:106 Resp: 870
Ion Ratio Lower Upper
106 100
91 189.1 165.4 248.2



#77
t-1,4-Dichloro-2-butene
Concen: 45.995 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Tgt Ion: 75 Resp: 24707
Ion Ratio Lower Upper
75 100
53 0.0 51.4 154.3#
89 0.0 22.2 66.6#

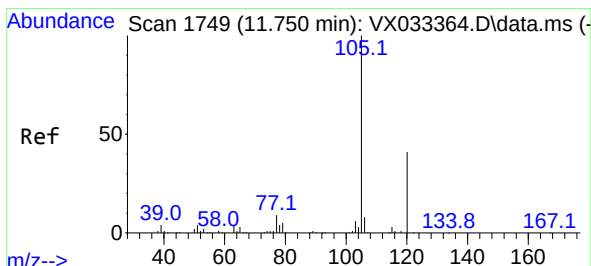
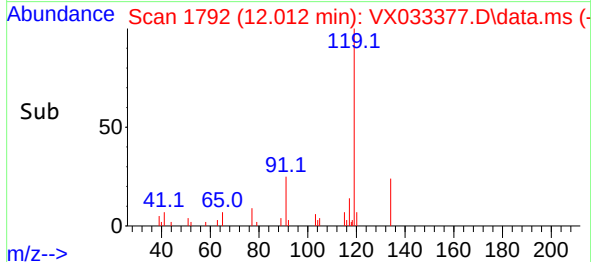
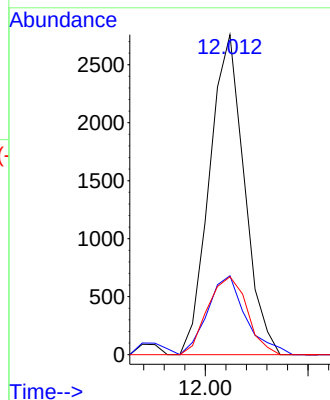
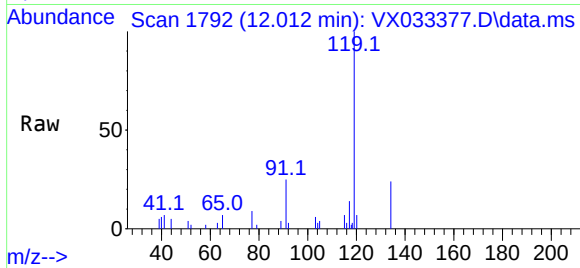




#79
tert-butylbenzene
Concen: 0.637 ug/l
RT: 12.012 min Scan# 11
Delta R.T. 0.299 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

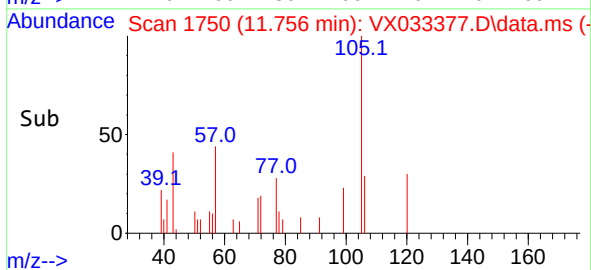
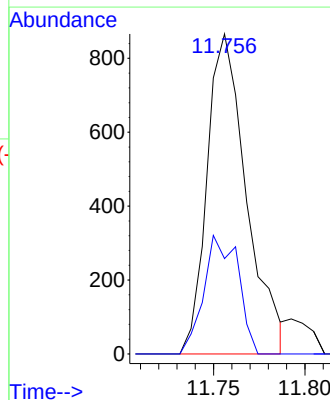
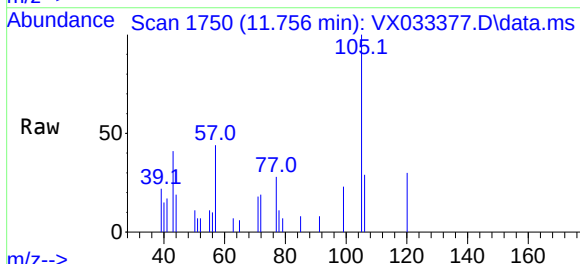
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

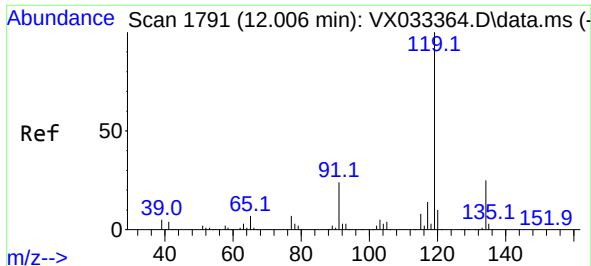
Tgt Ion:119	Resp:	3254	
Ion	Ratio	Lower	Upper
119	100		
91	27.0	0.0	117.0
134	27.5	0.0	44.4



#80
1,2,4-Trimethylbenzene
Concen: 0.257 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Tgt	Ion:105	Resp:	1301
Ion	Ratio	Lower	Upper
105	100		
120	32.1	0.0	86.8

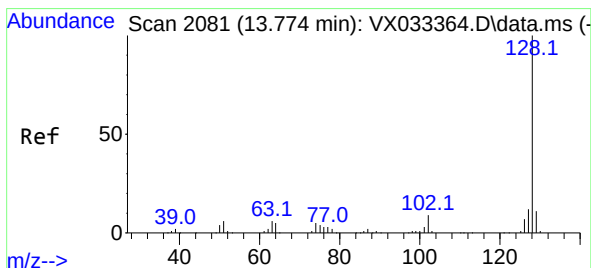
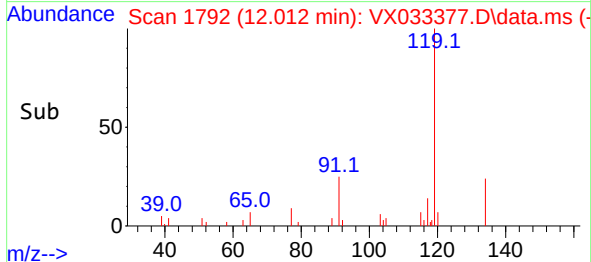
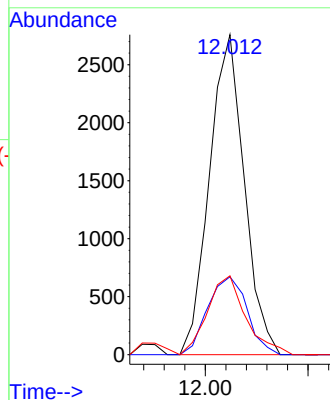
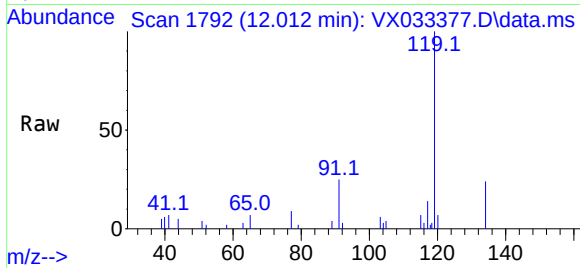




#82
p-Isopropyltoluene
Concen: 0.621 ug/l
RT: 12.012 min Scan# 119
Delta R.T. 0.006 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

Tgt Ion:119 Resp: 3254
Ion Ratio Lower Upper
119 100
134 27.5 0.0 52.6
91 27.0 0.0 47.2



#91
Naphthalene
Concen: 0.244 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX033377.D
Acq: 12 Dec 2022 16:14

Tgt Ion:128 Resp: 1341
Ion Ratio Lower Upper
128 100
127 7.6 9.9 14.9#
129 10.4 8.8 13.2

