

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121622\
 Data File : VX033456.D
 Acq On : 16 Dec 2022 13:02
 Operator : JC/MD
 Sample : N6074-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 221214029-02-VOA

Quant Time: Dec 17 07:46:08 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)

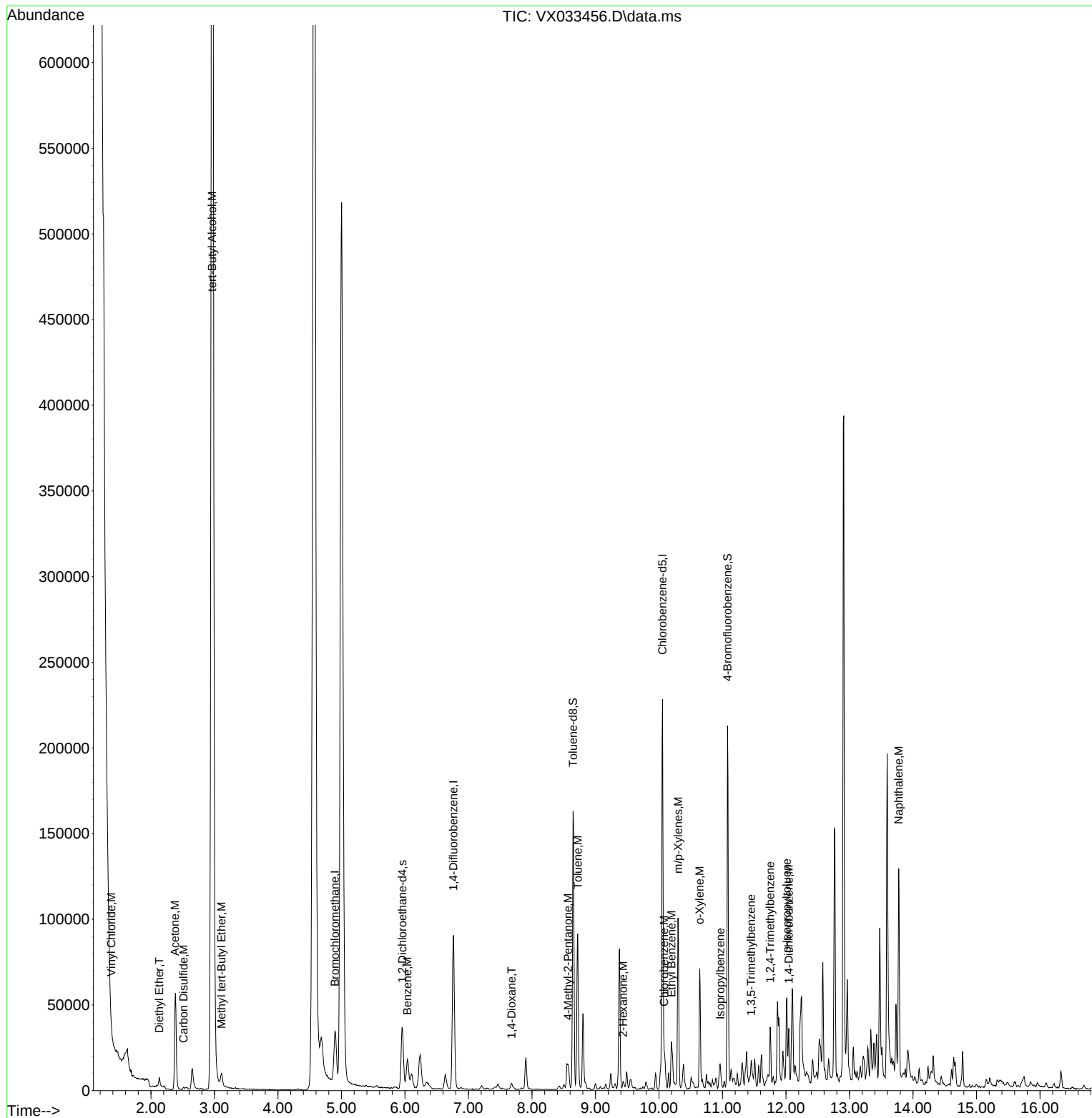
Internal Standards						
1) Bromochloromethane	4.898	128	13321	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	96154	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100912	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	36069	30.830	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.767%			
60) 4-Bromofluorobenzene	11.079	95	53448	28.597	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.333%			
63) Toluene-d8	8.647	98	100399	29.909	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.700%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.374	62	556	0.472	ug/l	91
8) Diethyl Ether	2.130	74	1784	2.379	ug/l	80
15) Acetone	2.380	58	13225	65.385	ug/l	95
16) Carbon Disulfide	2.514	76	1952	0.631	ug/l	98
23) tert-Butyl Alcohol	2.965	59	1482332	5903.366	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	7317	1.761	ug/l #	79
34) Benzene	6.038	78	21159	3.799	ug/l	96
45) 1,4-Dioxane	7.678	88	2772	85.351	ug/l #	79
58) 4-Methyl-2-Pentanone	8.568	43	12364	7.577	ug/l #	76
59) 2-Hexanone	9.433	43	2231	1.788	ug/l #	72
62) Toluene	8.720	91	54866	8.957	ug/l	99
64) Chlorobenzene	10.080	112	4008	1.034	ug/l	90
66) Ethyl Benzene	10.195	91	14985	2.171	ug/l	92
67) m/p-Xylenes	10.299	106	22612	8.381	ug/l	100
68) o-Xylene	10.640	106	15806	6.013	ug/l	95
70) Isopropylbenzene	10.964	105	5786	0.829	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	5562	0.948	ug/l	92
80) 1,2,4-Trimethylbenzene	11.750	105	15284	2.651	ug/l	99
82) p-Isopropyltoluene	12.012	119	18118	3.041	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	9687	3.030	ug/l	98
91) Naphthalene	13.774	128	68879	11.007	ug/l	99

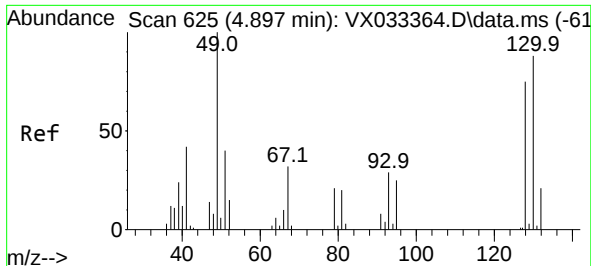
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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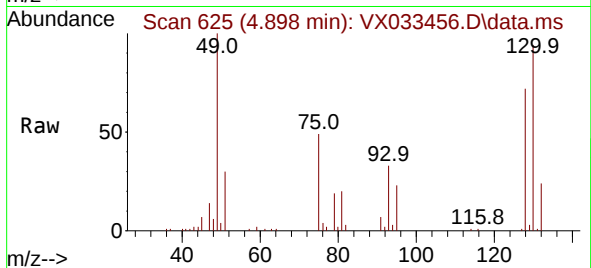
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Dec 12 12:37:35 2022
Response via : Initial Calibration



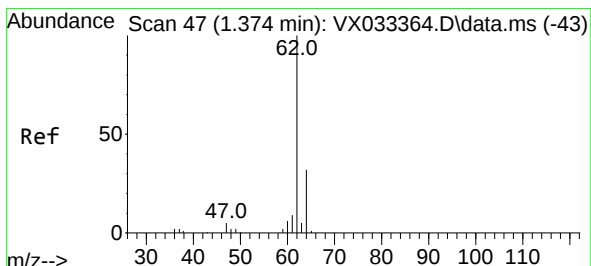
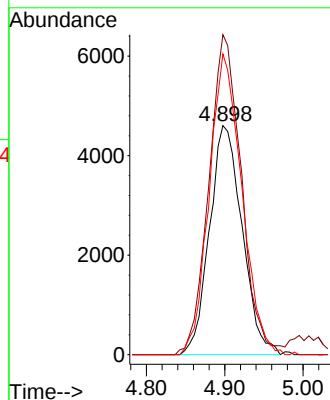
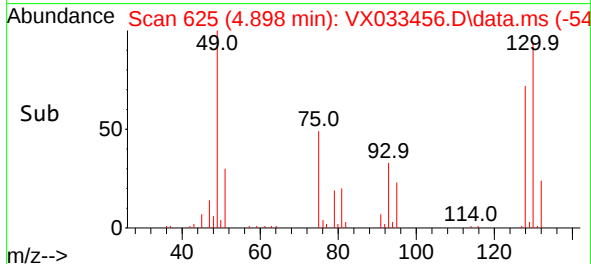


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. 0.001 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA

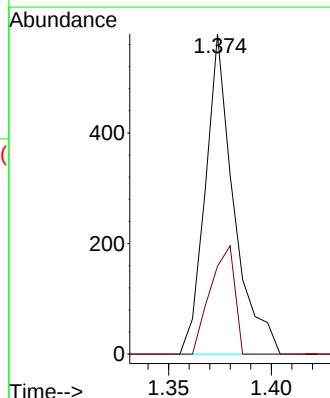
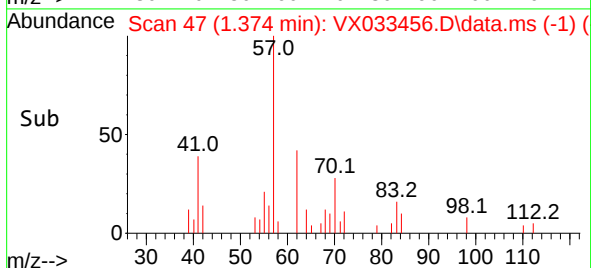
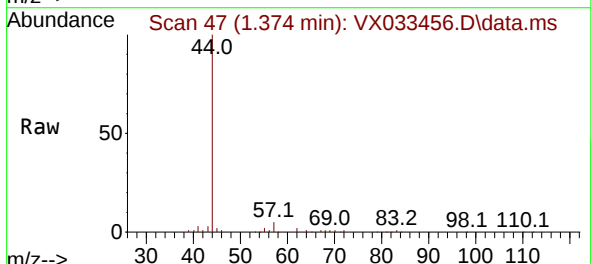


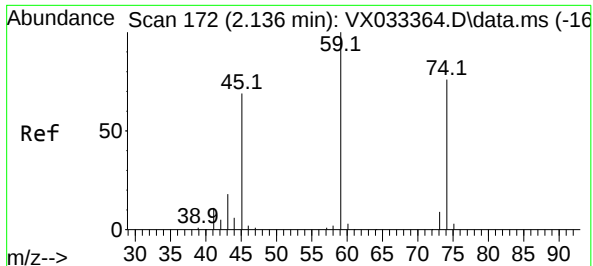
Tgt Ion:128 Resp: 13321
Ion Ratio Lower Upper
128 100
49 138.0 0.0 339.5
130 131.0 0.0 318.0



#4
Vinyl Chloride
Concen: 0.472 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion: 62 Resp: 556
Ion Ratio Lower Upper
62 100
64 27.5 25.9 38.9

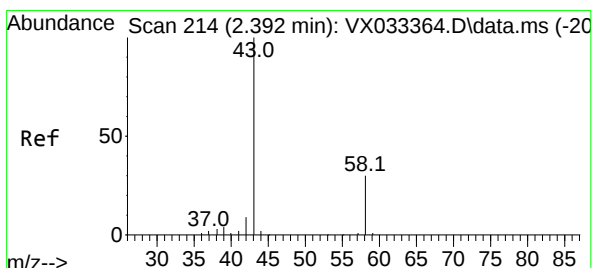
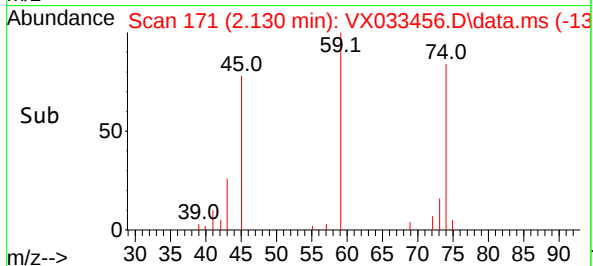
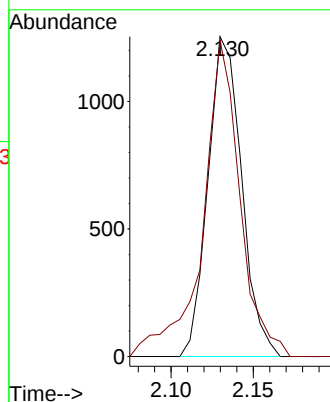
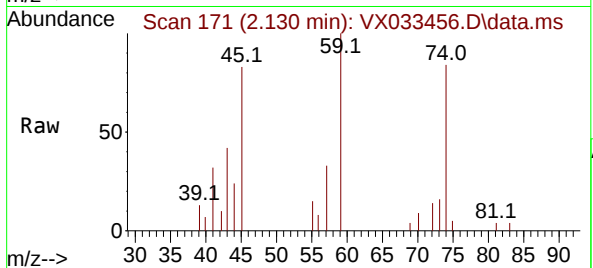




#8
Diethyl Ether
Concen: 2.379 ug/l
RT: 2.130 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

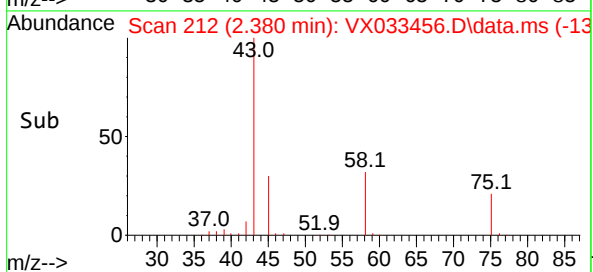
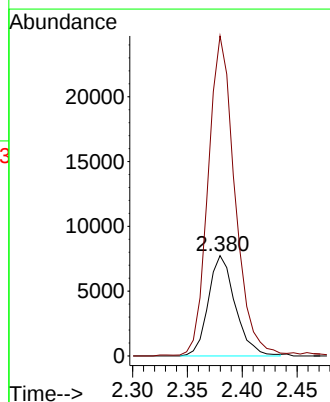
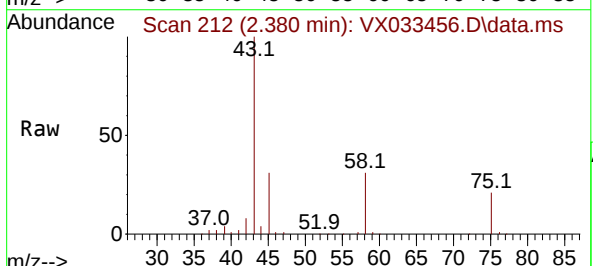
Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA

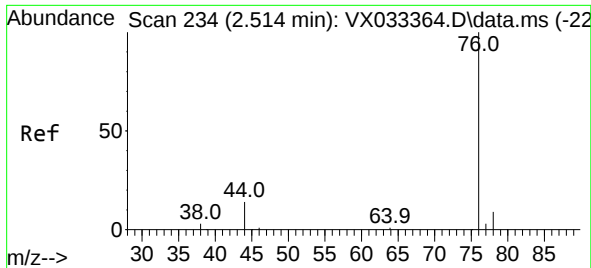
Tgt Ion: 74 Resp: 1784
Ion Ratio Lower Upper
74 100
45 109.0 18.0 161.8



#15
Acetone
Concen: 65.385 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.012 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion: 58 Resp: 13225
Ion Ratio Lower Upper
58 100
43 317.8 262.9 394.3

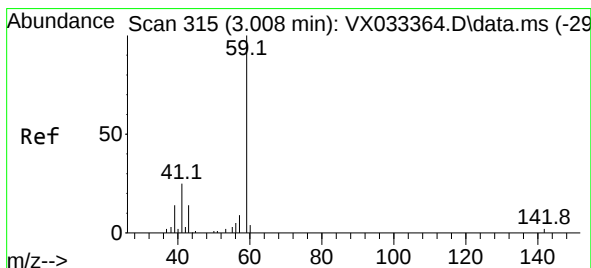
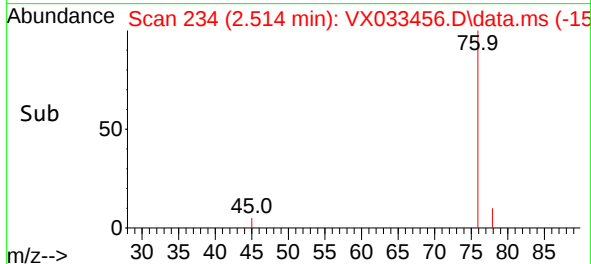
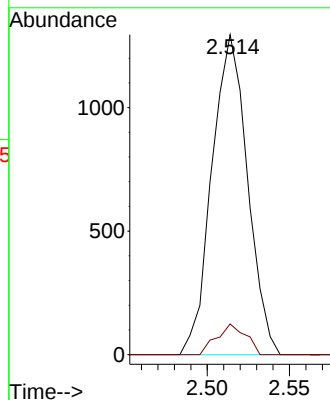
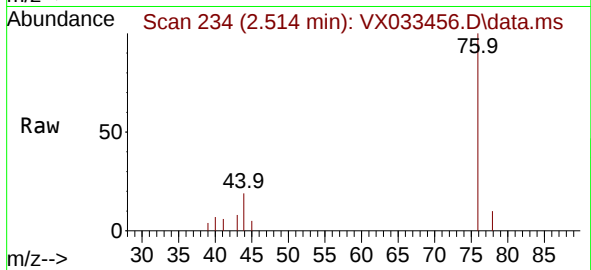




#16
Carbon Disulfide
Concen: 0.631 ug/l
RT: 2.514 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

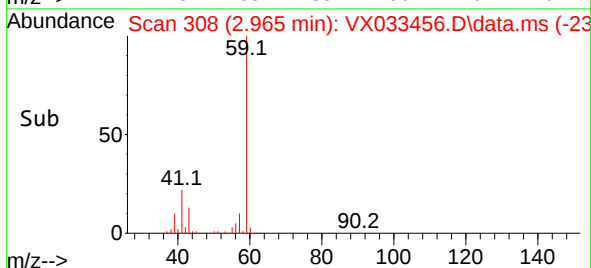
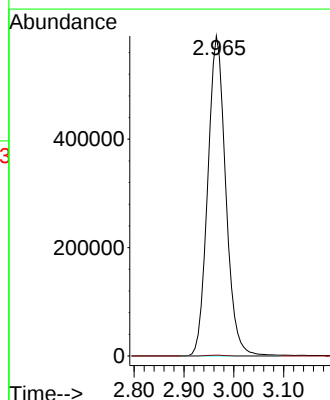
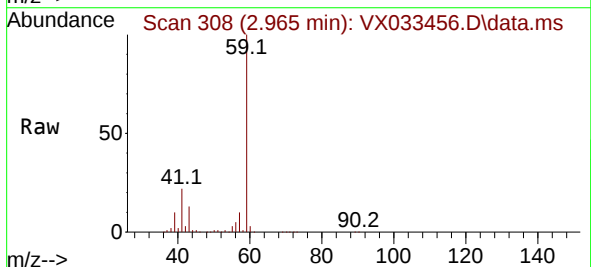
Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA

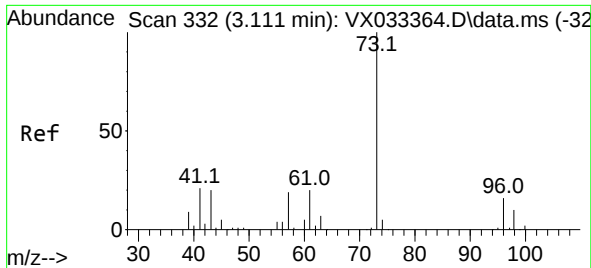
Tgt Ion: 76 Resp: 1952
Ion Ratio Lower Upper
76 100
78 9.6 7.0 10.4



#23
tert-Butyl Alcohol
Concen: 5903.366 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.043 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion: 59 Resp: 1482332
Ion Ratio Lower Upper
59 100
52 0.2 149.0 223.6#

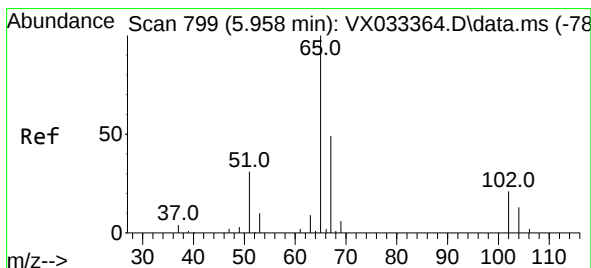
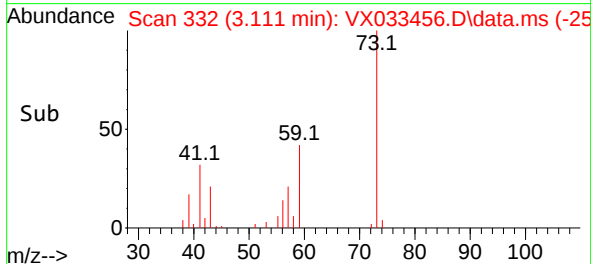
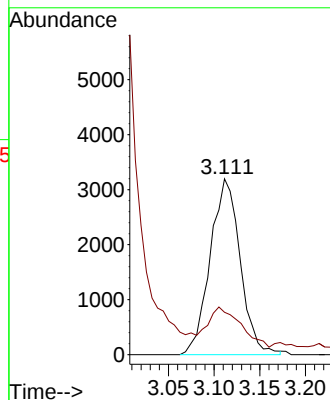
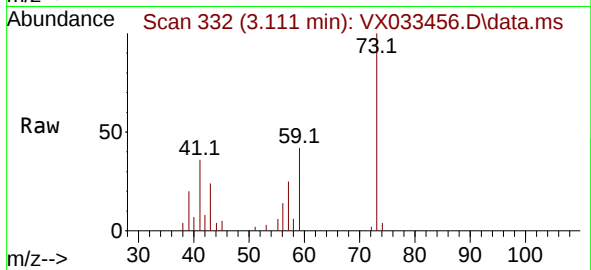




#24
Methyl tert-Butyl Ether
Concen: 1.761 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

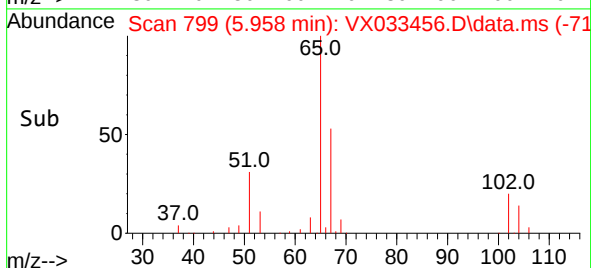
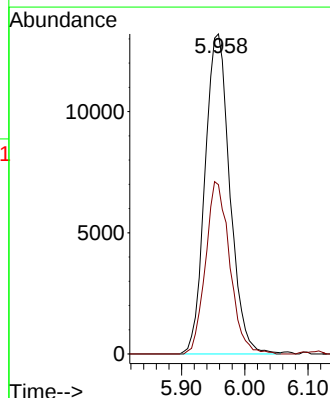
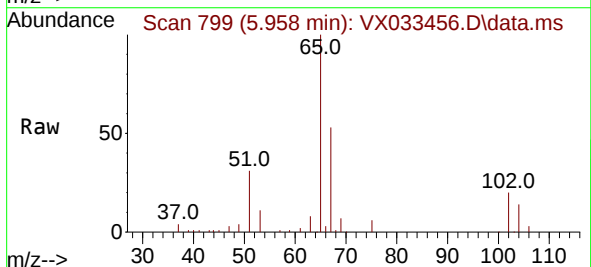
Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA

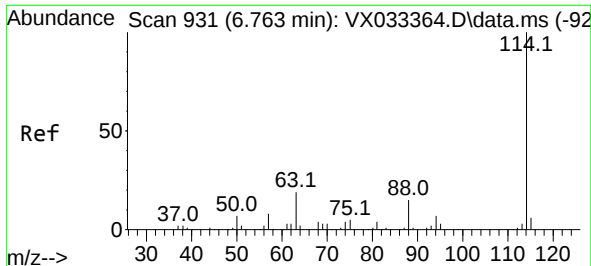
Tgt Ion: 73 Resp: 7317
Ion Ratio Lower Upper
73 100
43 30.6 16.8 25.2#



#27
1,2-Dichloroethane-d4
Concen: 30.830 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion: 65 Resp: 36069
Ion Ratio Lower Upper
65 100
67 52.4 39.8 59.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX033456.D

Acq: 16 Dec 2022 13:02

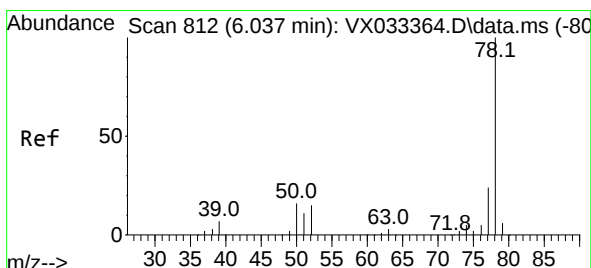
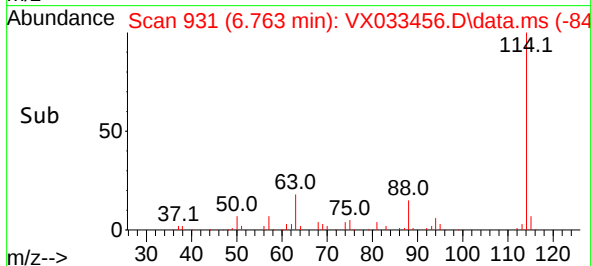
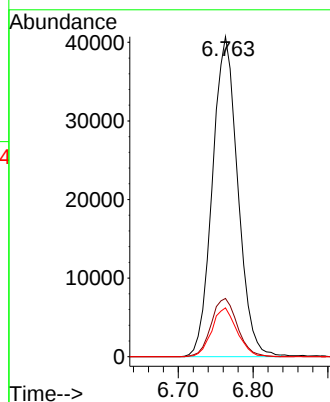
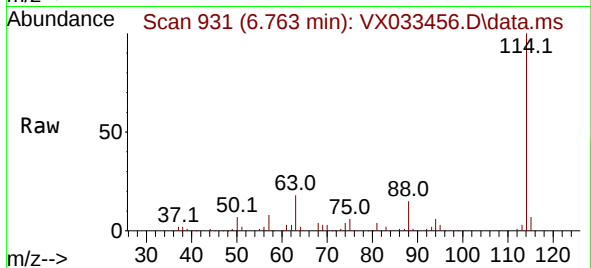
Instrument :

MSVOA_X

ClientSampleId :

221214029-02-VOA

Tgt Ion:114	Resp:	96154
Ion	Ratio	Lower Upper
114	100	
63	18.7	15.2 22.8
88	15.2	12.2 18.4



#34

Benzene

Concen: 3.799 ug/l

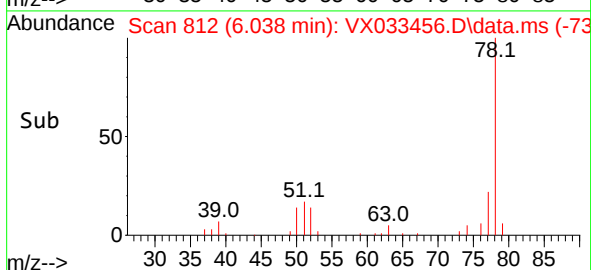
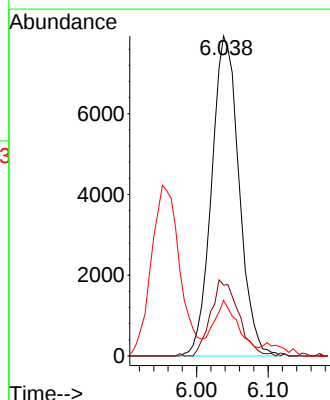
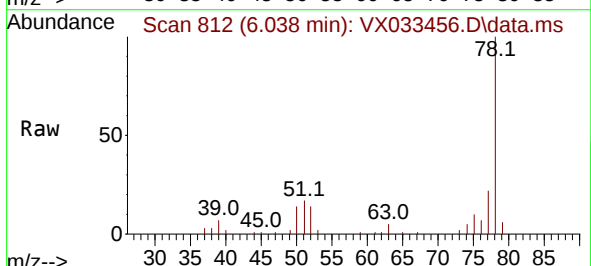
RT: 6.038 min Scan# 812

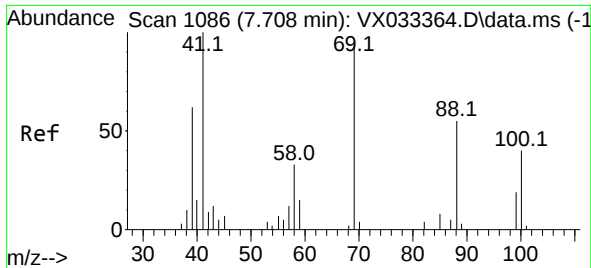
Delta R.T. 0.000 min

Lab File: VX033456.D

Acq: 16 Dec 2022 13:02

Tgt Ion: 78	Resp:	21159
Ion	Ratio	Lower Upper
78	100	
77	21.4	19.2 28.8
51	14.5	12.6 18.8

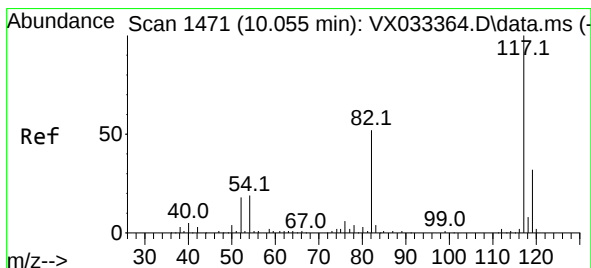
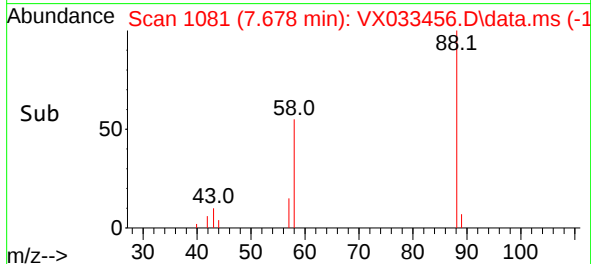
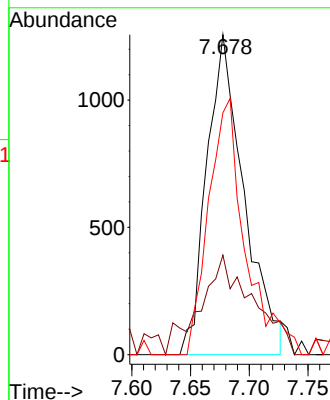
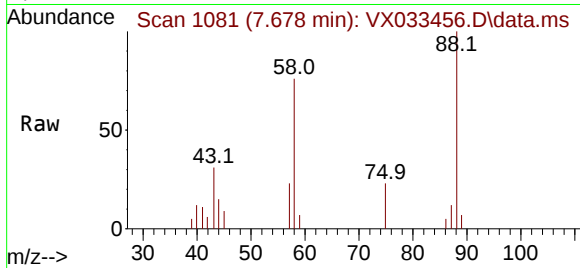




#45
1,4-Dioxane
Concen: 85.351 ug/l
RT: 7.678 min Scan# 1086
Delta R.T. -0.030 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

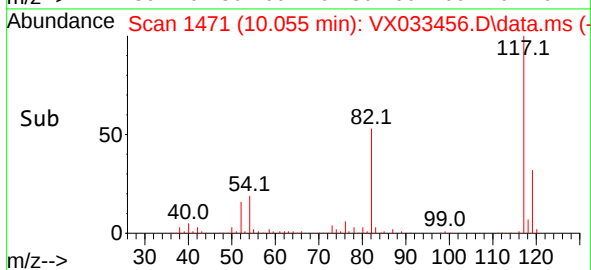
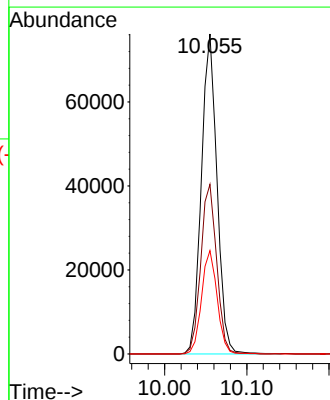
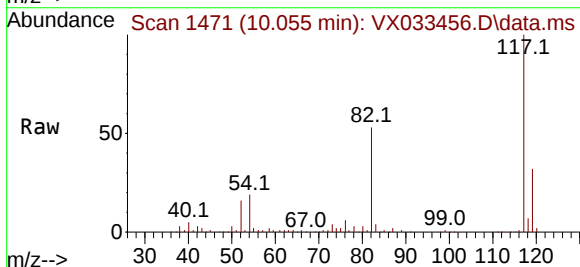
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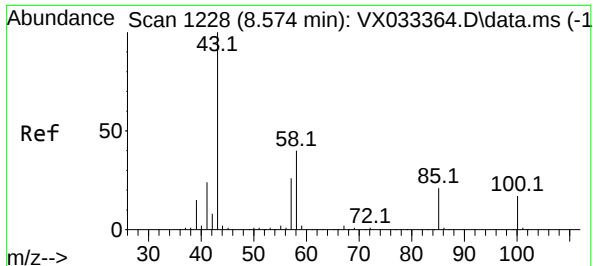
Tgt Ion: 88 Resp: 2772
Ion Ratio Lower Upper
88 100
43 39.6 12.4 18.6#
58 72.9 51.1 76.7



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion: 117 Resp: 100912
Ion Ratio Lower Upper
117 100
82 54.0 43.7 65.5
119 32.2 25.6 38.4





#58

4-Methyl-2-Pentanone

Concen: 7.577 ug/l

RT: 8.568 min Scan# 1227

Delta R.T. -0.006 min

Lab File: VX033456.D

Acq: 16 Dec 2022 13:02

Instrument :

MSVOA_X

ClientSampleId :

221214029-02-VOA

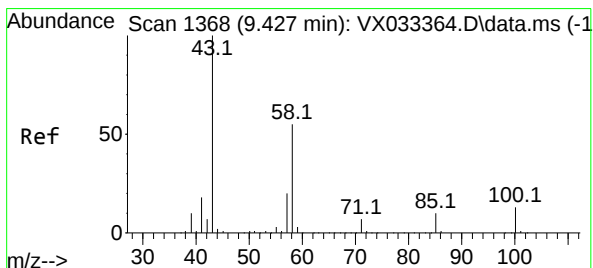
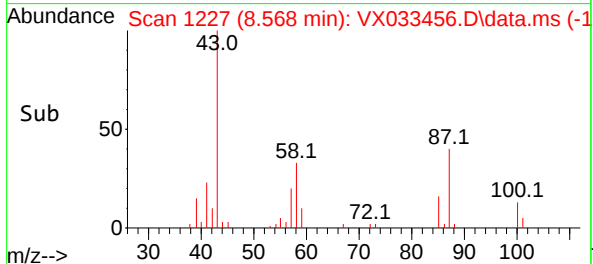
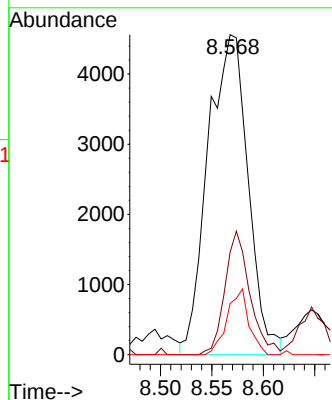
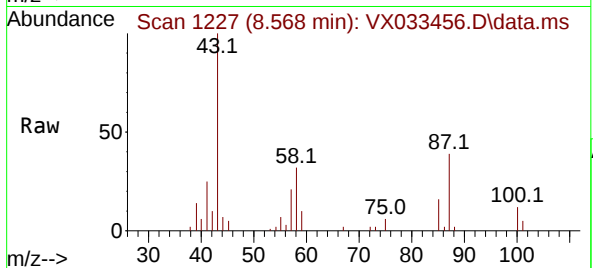
Tgt Ion: 43 Resp: 12364

Ion Ratio Lower Upper

43 100

58 24.1 32.3 48.5#

85 11.2 16.6 24.8#



#59

2-Hexanone

Concen: 1.788 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX033456.D

Acq: 16 Dec 2022 13:02

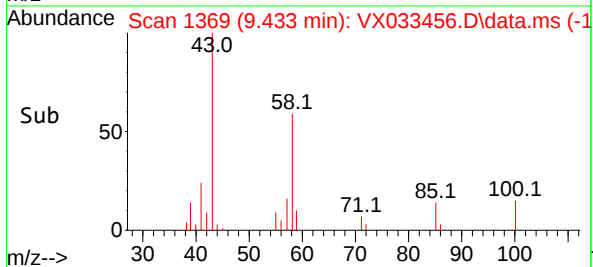
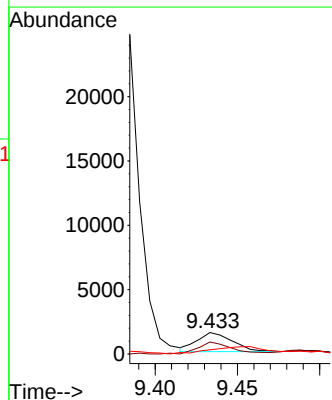
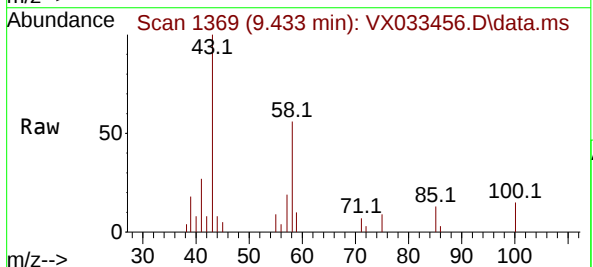
Tgt Ion: 43 Resp: 2231

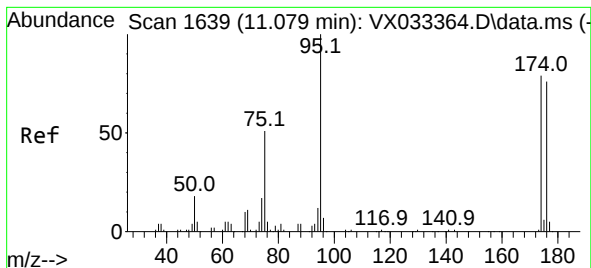
Ion Ratio Lower Upper

43 100

58 59.1 44.4 66.6

57 62.8 16.2 24.2#

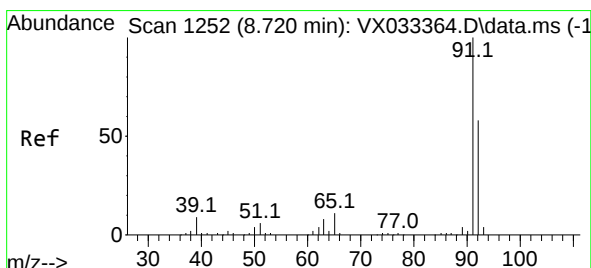
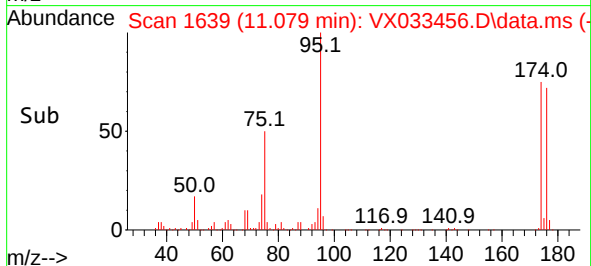
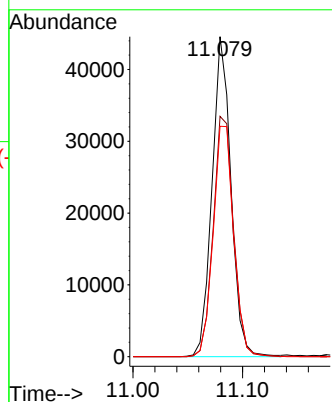
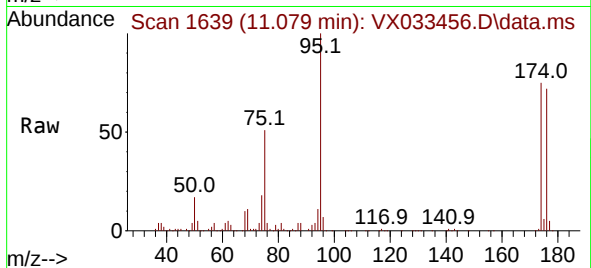




#60
4-Bromofluorobenzene
Concen: 28.597 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

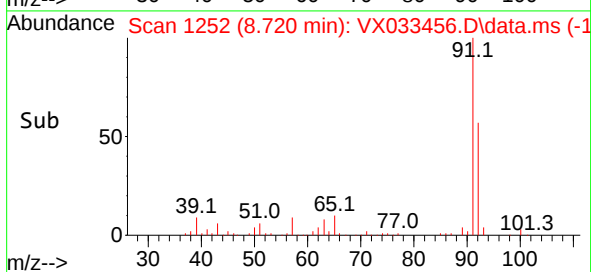
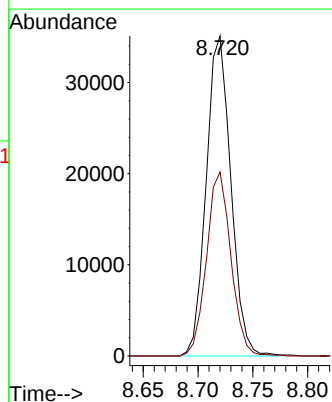
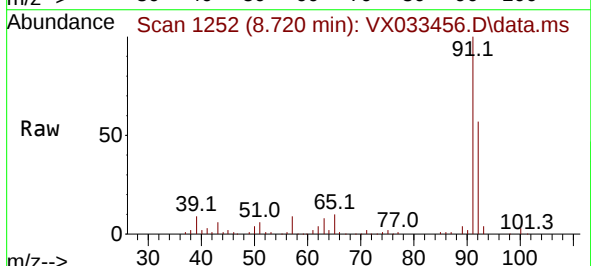
Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA

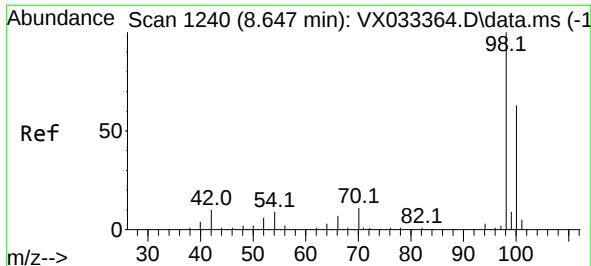
Tgt Ion: 95 Resp: 53448
Ion Ratio Lower Upper
95 100
174 80.4 65.9 98.9
176 78.2 63.3 94.9



#62
Toluene
Concen: 8.957 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion: 91 Resp: 54866
Ion Ratio Lower Upper
91 100
92 56.8 46.2 69.2

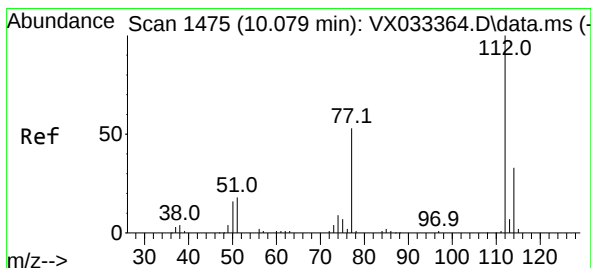
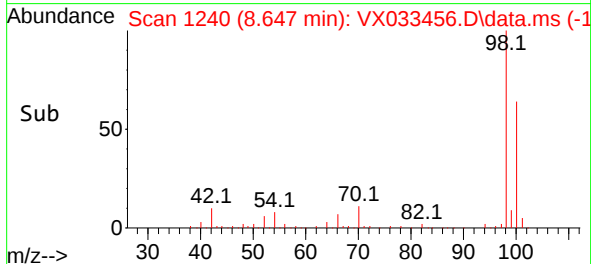
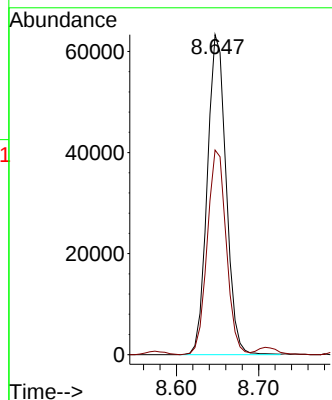
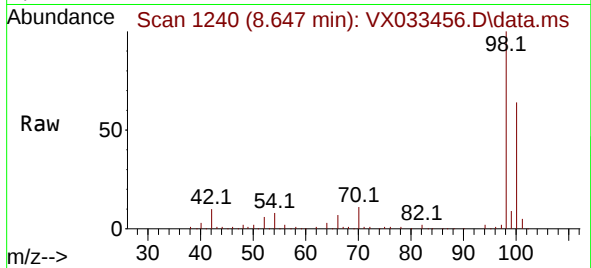




#63
Toluene-d8
Concen: 29.909 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

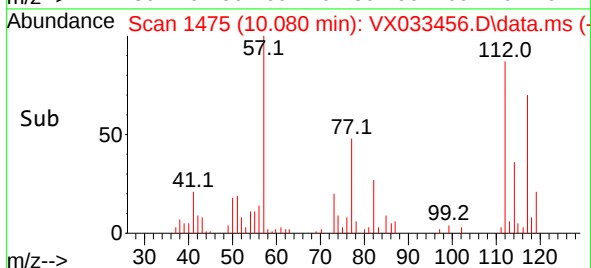
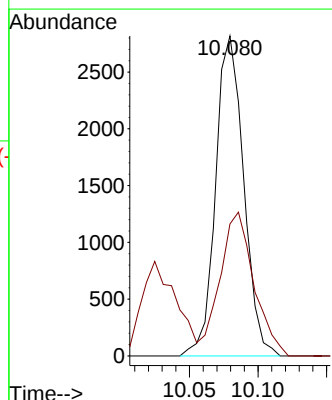
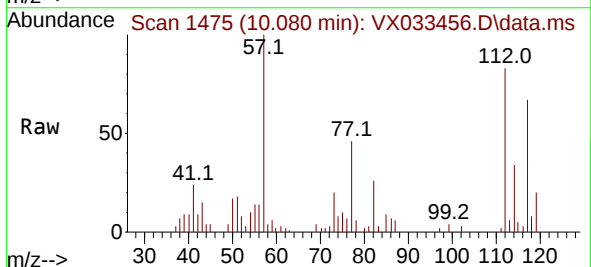
Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA

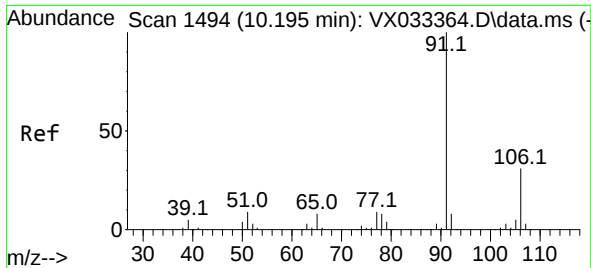
Tgt Ion: 98 Resp: 100399
Ion Ratio Lower Upper
98 100
100 64.8 51.4 77.2



#64
Chlorobenzene
Concen: 1.034 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion: 112 Resp: 4008
Ion Ratio Lower Upper
112 100
114 38.2 26.2 39.2

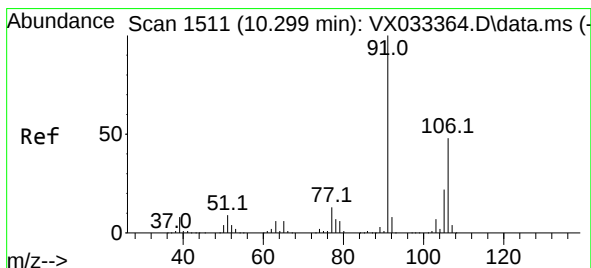
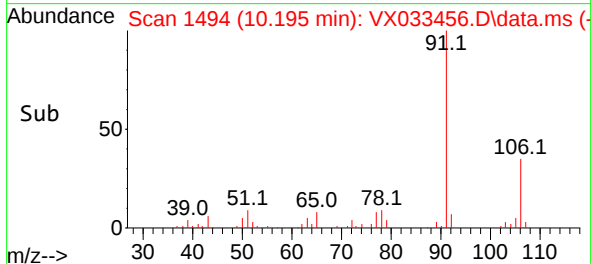
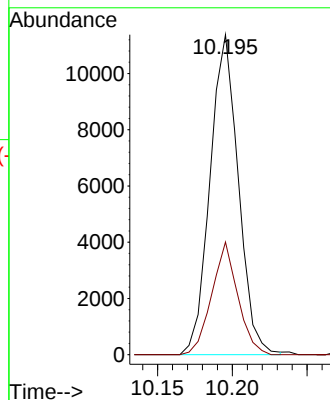
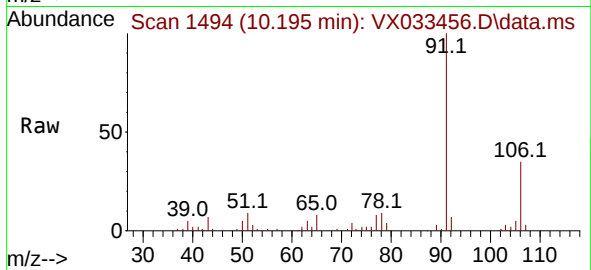




#66
Ethyl Benzene
Concen: 2.171 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

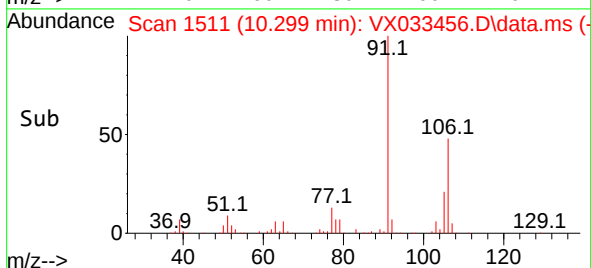
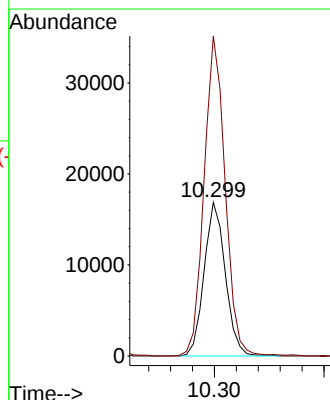
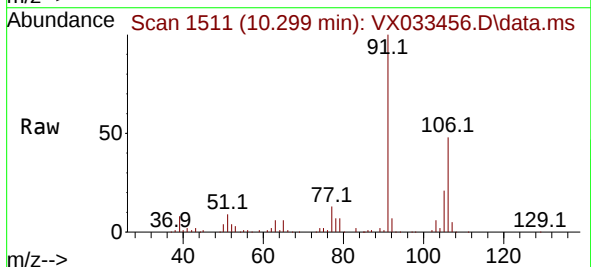
Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA

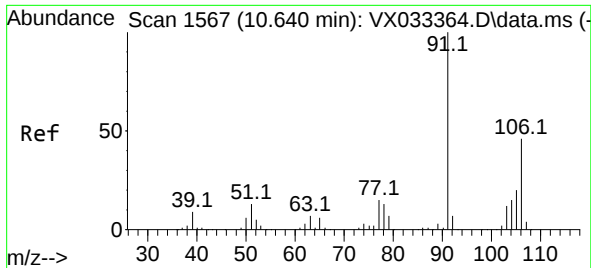
Tgt Ion: 91 Resp: 14985
Ion Ratio Lower Upper
91 100
106 35.2 24.8 37.2



#67
m/p-Xylenes
Concen: 8.381 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion: 106 Resp: 22612
Ion Ratio Lower Upper
106 100
91 206.7 165.4 248.2

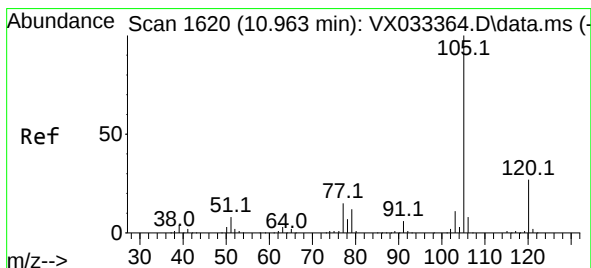
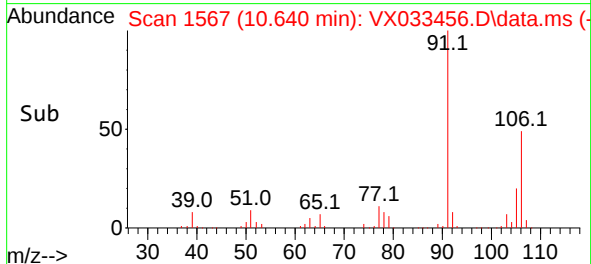
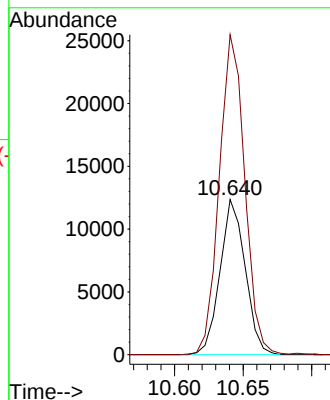
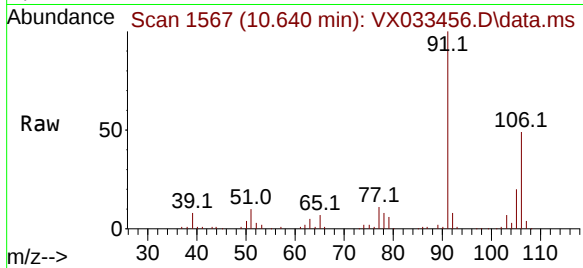




#68
o-Xylene
Concen: 6.013 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

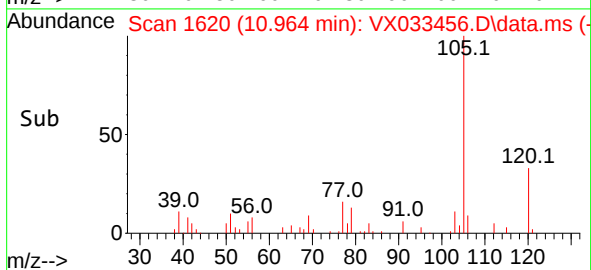
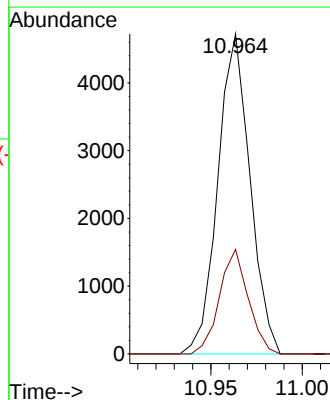
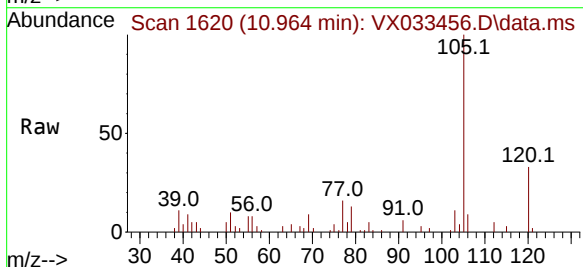
Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA

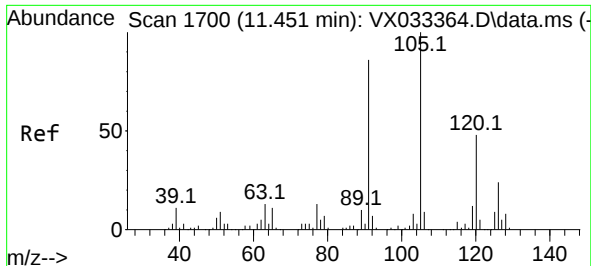
Tgt Ion:106 Resp: 15806
Ion Ratio Lower Upper
106 100
91 207.8 108.0 324.0



#70
Isopropylbenzene
Concen: 0.829 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion:105 Resp: 5786
Ion Ratio Lower Upper
105 100
120 29.3 18.1 33.7

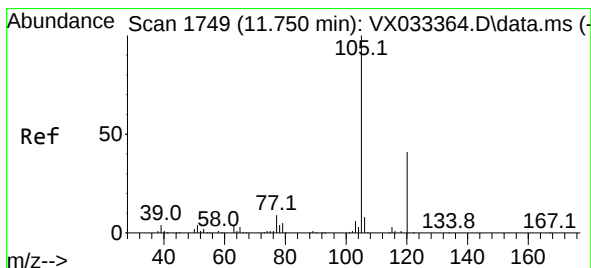
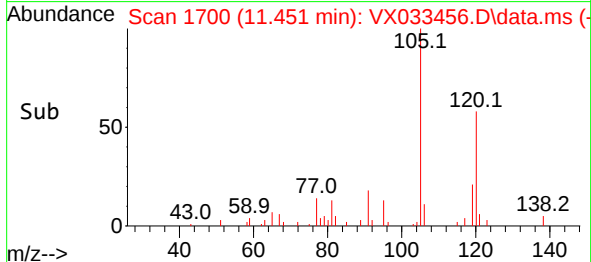
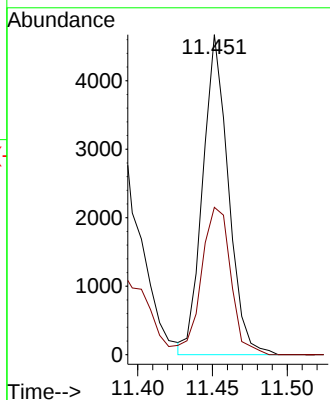
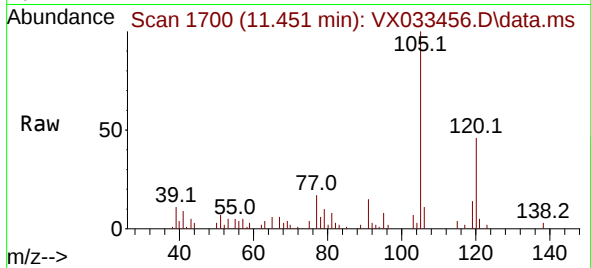




#76
1,3,5-Trimethylbenzene
Concen: 0.948 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

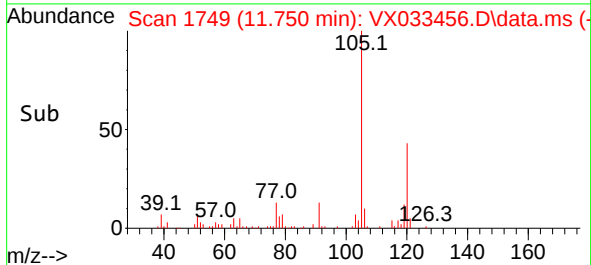
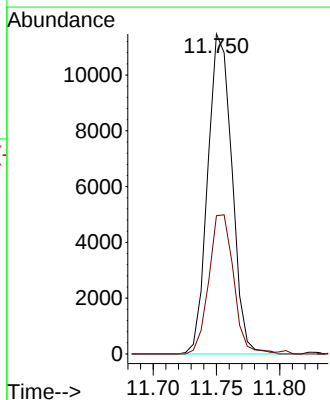
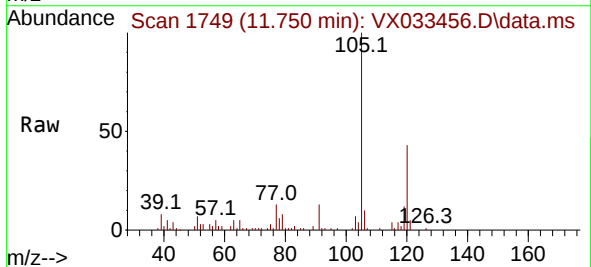
Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA

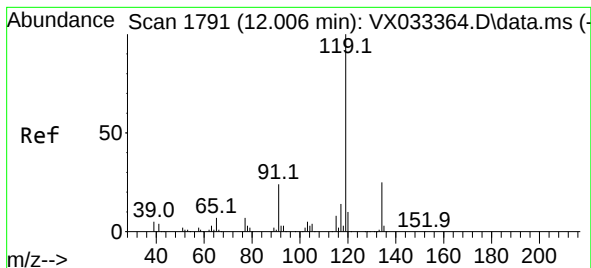
Tgt Ion:105 Resp: 5562
Ion Ratio Lower Upper
105 100
120 53.3 0.0 96.2



#80
1,2,4-Trimethylbenzene
Concen: 2.651 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Tgt Ion:105 Resp: 15284
Ion Ratio Lower Upper
105 100
120 44.2 0.0 86.8





#82

p-Isopropyltoluene

Concen: 3.041 ug/l

RT: 12.012 min Scan# 1791

Delta R.T. 0.006 min

Lab File: VX033456.D

Acq: 16 Dec 2022 13:02

Instrument :

MSVOA_X

ClientSampleId :

221214029-02-VOA

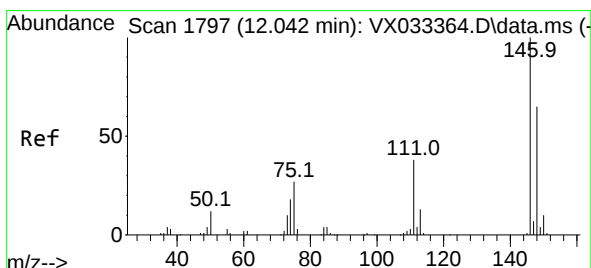
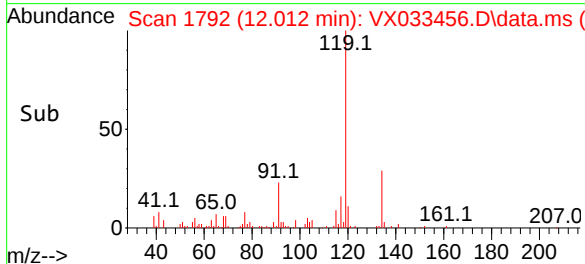
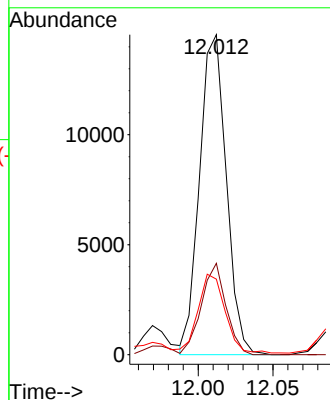
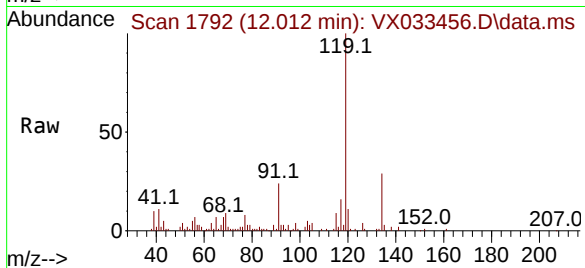
Tgt Ion:119 Resp: 18118

Ion Ratio Lower Upper

119 100

134 26.4 0.0 52.6

91 25.4 0.0 47.2



#84

1,4-Dichlorobenzene

Concen: 3.030 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX033456.D

Acq: 16 Dec 2022 13:02

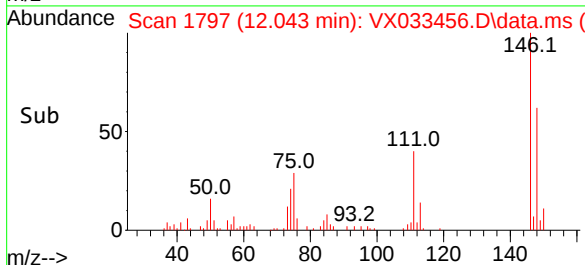
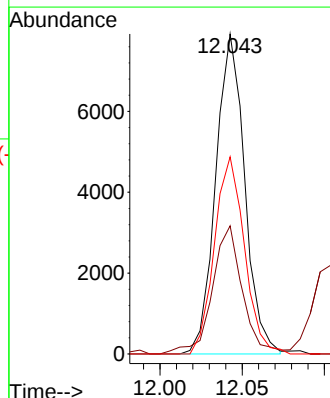
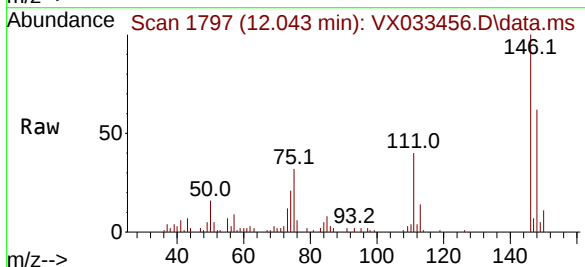
Tgt Ion:146 Resp: 9687

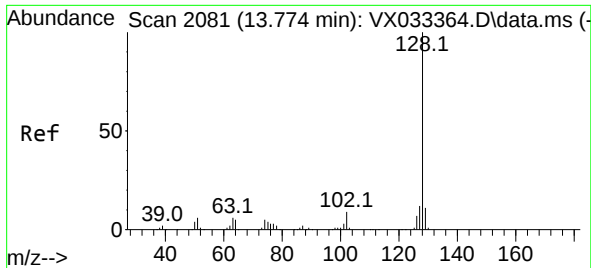
Ion Ratio Lower Upper

146 100

111 41.4 19.1 57.1

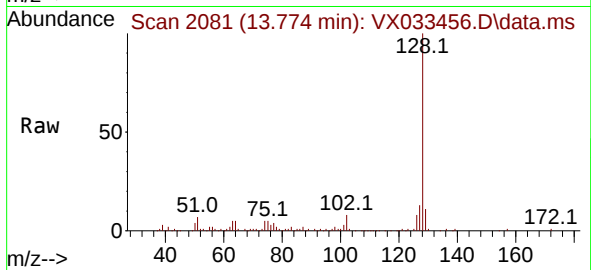
148 63.8 32.2 96.6





#91
Naphthalene
Concen: 11.007 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX033456.D
Acq: 16 Dec 2022 13:02

Instrument :
MSVOA_X
ClientSampleId :
221214029-02-VOA



Tgt Ion:128 Resp: 68879
Ion Ratio Lower Upper
128 100
127 12.9 9.9 14.9
129 11.0 8.8 13.2

