

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042123\
 Data File : VX035231.D
 Acq On : 21 Apr 2023 15:16
 Operator : JC/MD
 Sample : 02429-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 230419084-02-VOA

Quant Time: Apr 22 01:05:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032923W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 01 01:50:18 2023
 Response via : Initial Calibration

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

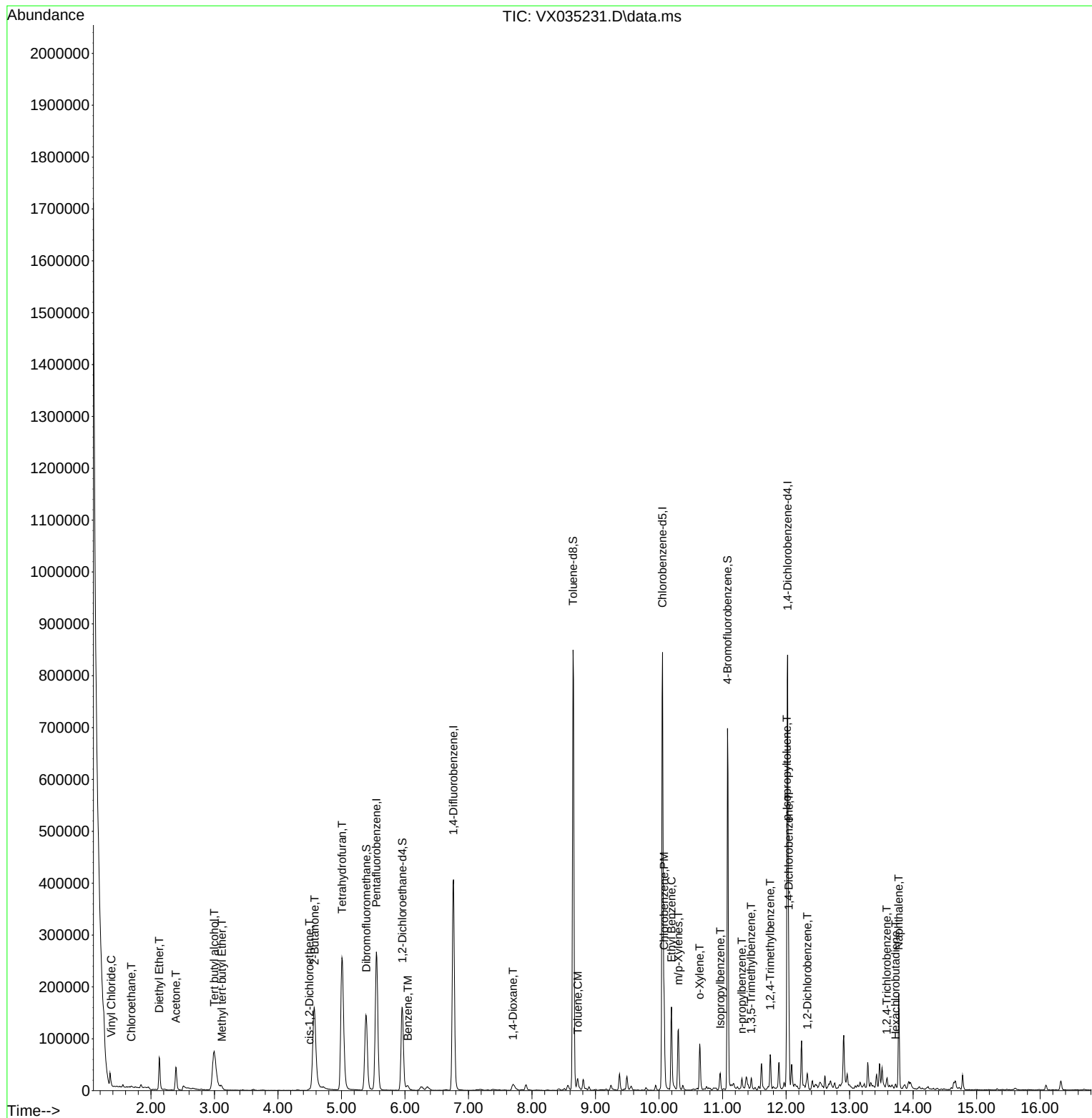
Internal Standards						
1) Pentafluorobenzene	5.550	168	257274	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	428222	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	384379	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	174020	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	156422	39.755	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	79.520%		
35) Dibromofluoromethane	5.391	113	130688	46.141	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.280%		
50) Toluene-d8	8.647	98	506961	48.493	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.980%		
62) 4-Bromofluorobenzene	11.079	95	186835	46.183	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.360%		
Target Compounds					Qvalue	
4) Vinyl Chloride	1.374	62	1150	0.362	ug/l	95
6) Chloroethane	1.691	64	1445	0.698	ug/l	97
8) Diethyl Ether	2.130	74	20723	11.494	ug/l	98
11) Tert butyl alcohol	2.995	59	169440	245.443	ug/l	99
16) Acetone	2.392	43	9739	6.093	ug/l	94
19) Methyl tert-butyl Ether	3.117	73	6614	0.676	ug/l #	89
25) 2-Butanone	4.574	43	11918	5.126	ug/l #	85
27) cis-1,2-Dichloroethene	4.495	96	1869	0.548	ug/l	69
29) Tetrahydrofuran	5.007	42	259760	178.340	ug/l	99
40) Benzene	6.043	78	10838	0.900	ug/l	97
49) 1,4-Dioxane	7.702	88	15353	206.659	ug/l	92
52) Toluene	8.720	92	5531	0.704	ug/l	92
65) Chlorobenzene	10.079	112	71507	8.941	ug/l	100
67) Ethyl Benzene	10.195	91	93868	6.479	ug/l	100
68) m/p-Xylenes	10.305	106	26950	4.870	ug/l	100
69) o-Xylene	10.640	106	19831	3.658	ug/l	99
73) Isopropylbenzene	10.963	105	15109	1.185	ug/l	98
78) n-propylbenzene	11.305	91	8489	0.576	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	7460	0.700	ug/l	93
84) 1,2,4-Trimethylbenzene	11.750	105	30147	2.781	ug/l	99
86) p-Isopropyltoluene	12.012	119	9077	0.894	ug/l	92
88) 1,4-Dichlorobenzene	12.042	146	73698	12.267	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	6722	1.167	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	2789	0.856	ug/l	91
94) Hexachlorobutadiene	13.725	225	1092	0.762	ug/l	98
95) Naphthalene	13.774	128	111298	9.613	ug/l	99

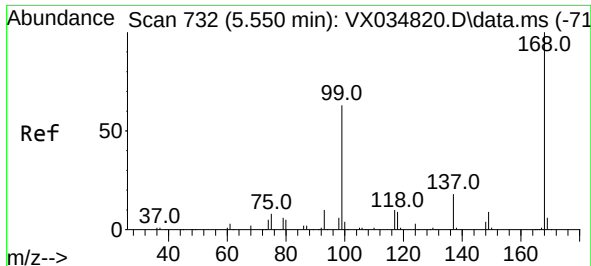
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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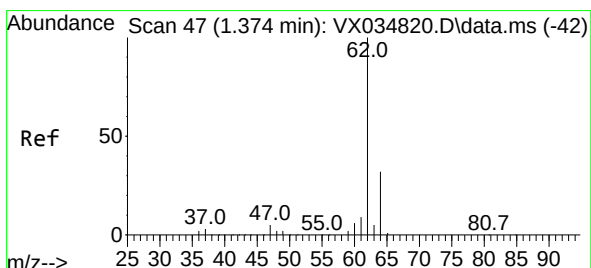
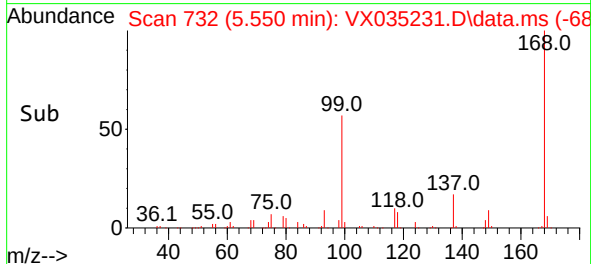
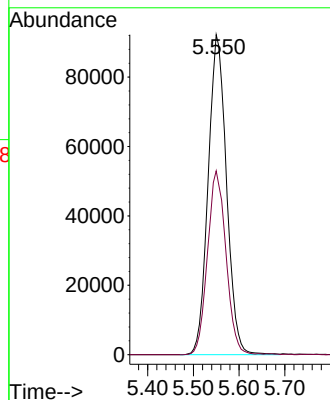
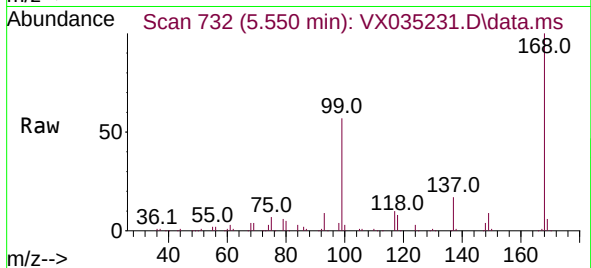




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

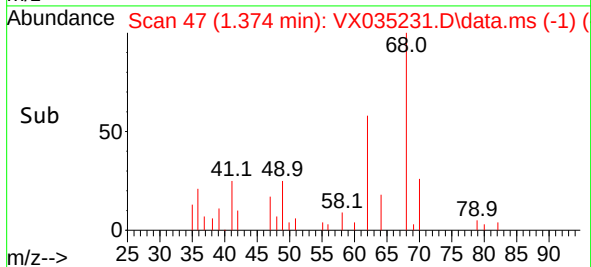
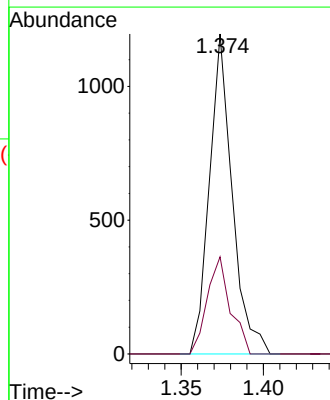
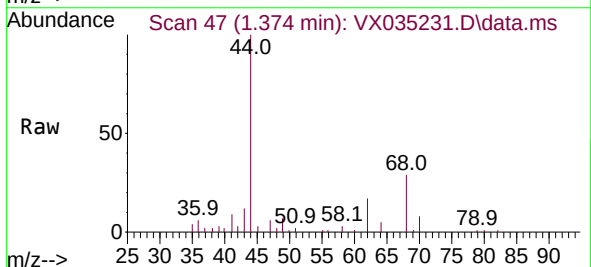
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

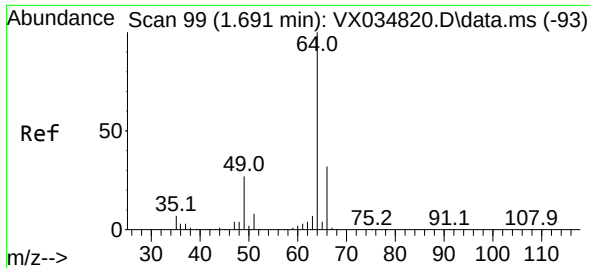
Tgt Ion:168 Resp: 257274
Ion Ratio Lower Upper
168 100
99 57.5 45.7 68.5



#4
Vinyl Chloride
Concen: 0.362 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion: 62 Resp: 1150
Ion Ratio Lower Upper
62 100
64 30.4 26.4 39.6

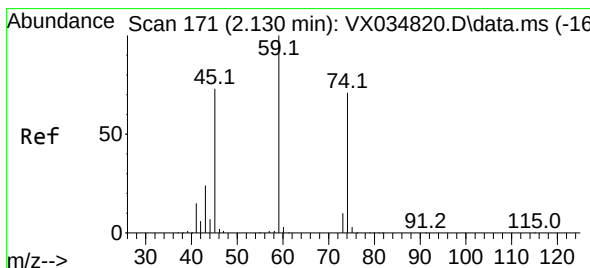
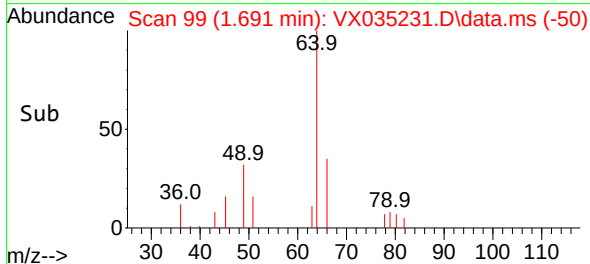
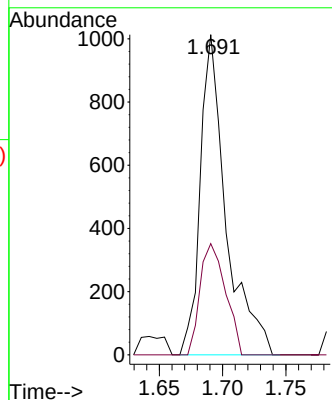
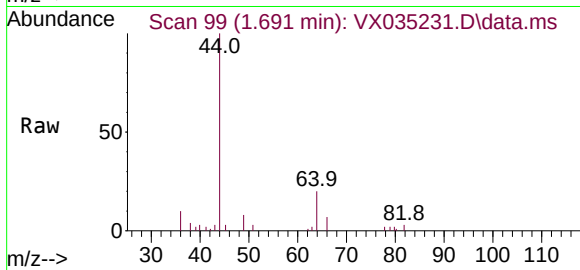




#6
 Chloroethane
 Concen: 0.698 ug/l
 RT: 1.691 min Scan# 99
 Delta R.T. -0.000 min
 Lab File: VX035231.D
 Acq: 21 Apr 2023 15:16

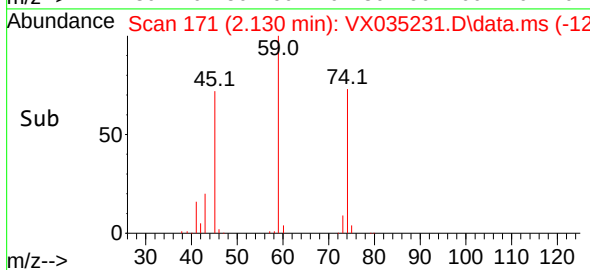
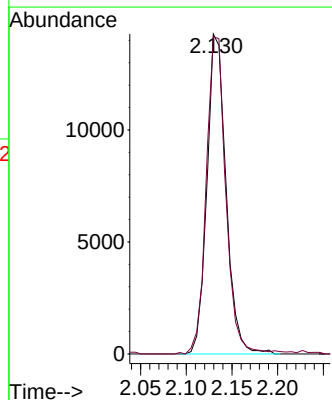
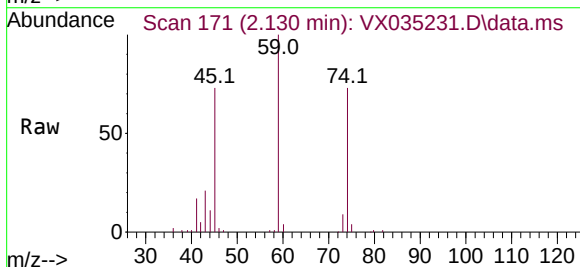
Instrument :
 MSVOA_X
 ClientSampleId :
 230419084-02-VOA

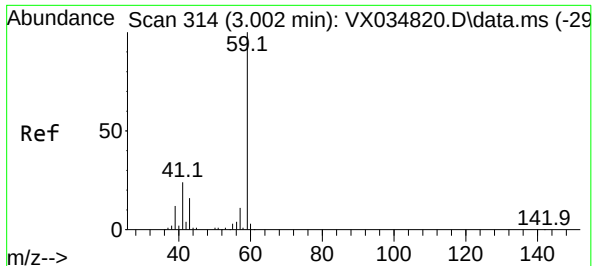
Tgt Ion: 64 Resp: 1445
 Ion Ratio Lower Upper
 64 100
 66 34.7 26.2 39.4



#8
 Diethyl Ether
 Concen: 11.494 ug/l
 RT: 2.130 min Scan# 171
 Delta R.T. -0.000 min
 Lab File: VX035231.D
 Acq: 21 Apr 2023 15:16

Tgt Ion: 74 Resp: 20723
 Ion Ratio Lower Upper
 74 100
 45 101.8 49.8 149.3





#11

Tert butyl alcohol

Concen: 245.443 ug/l

RT: 2.995 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX035231.D

Acq: 21 Apr 2023 15:16

Instrument :

MSVOA_X

ClientSampleId :

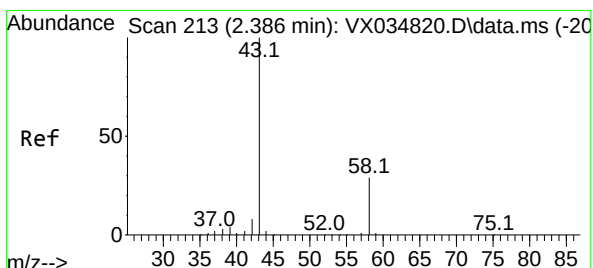
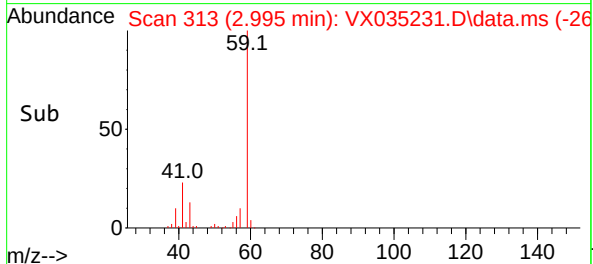
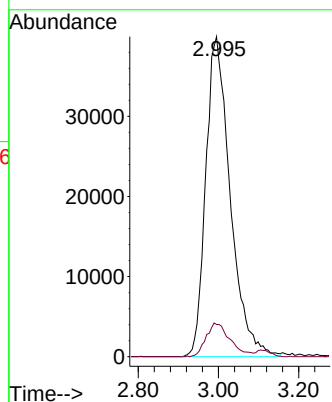
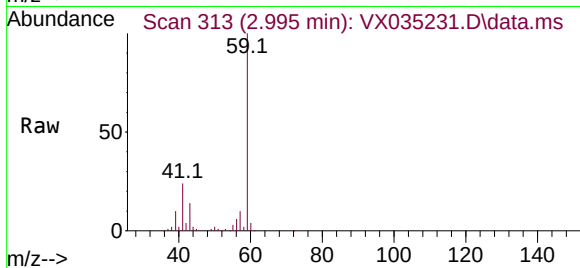
230419084-02-VOA

Tgt Ion: 59 Resp: 169440

Ion Ratio Lower Upper

59 100

57 10.3 8.1 12.1



#16

Acetone

Concen: 6.093 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX035231.D

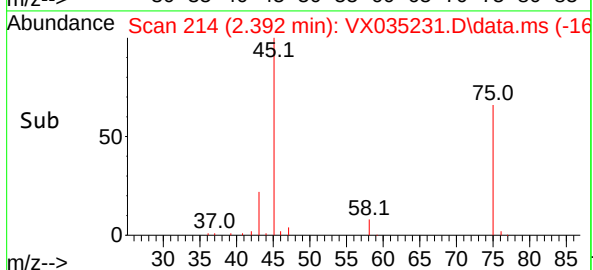
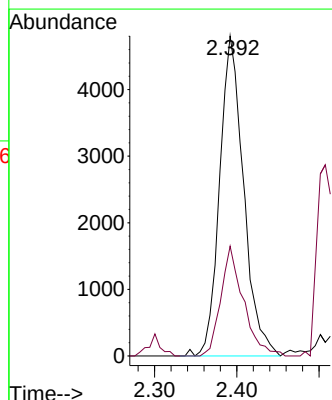
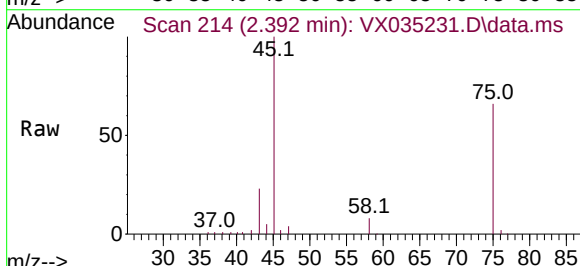
Acq: 21 Apr 2023 15:16

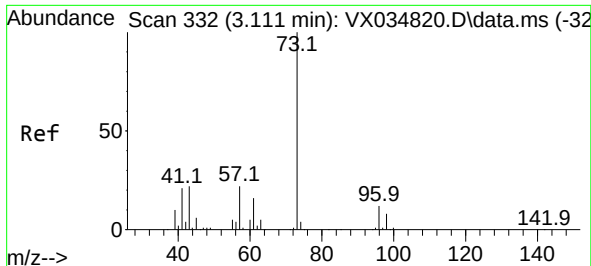
Tgt Ion: 43 Resp: 9739

Ion Ratio Lower Upper

43 100

58 34.3 24.7 37.1

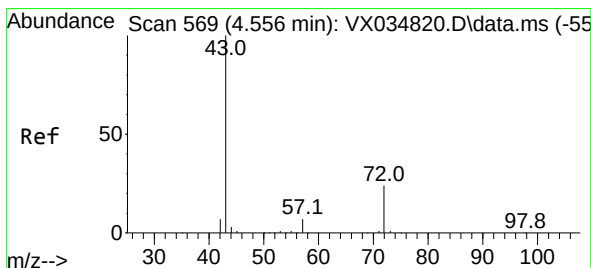
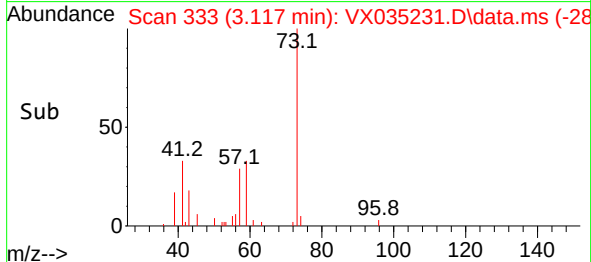
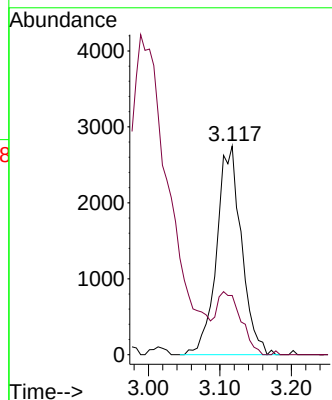
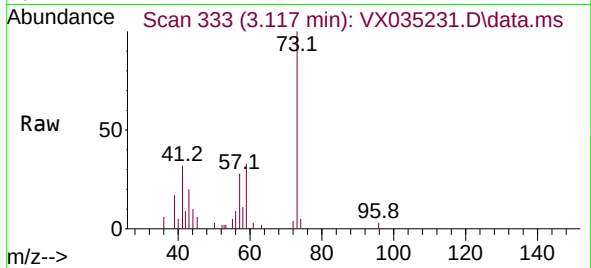




#19
Methyl tert-butyl Ether
Concen: 0.676 ug/l
RT: 3.117 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

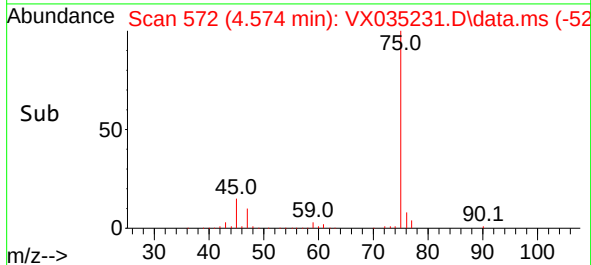
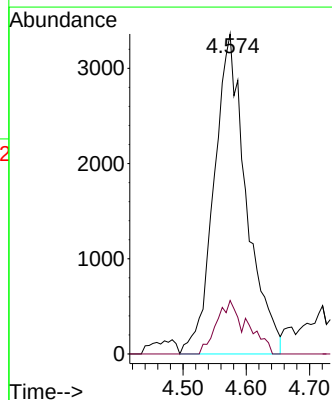
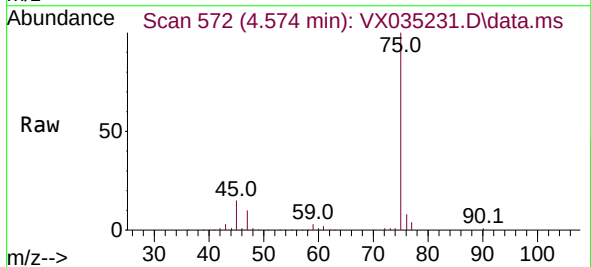
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

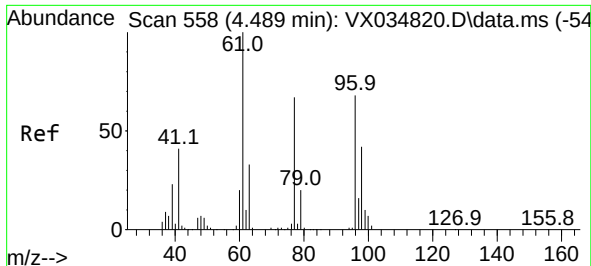
Tgt Ion: 73 Resp: 6614
Ion Ratio Lower Upper
73 100
57 28.4 18.5 27.7#



#25
2-Butanone
Concen: 5.126 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.018 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion: 43 Resp: 11918
Ion Ratio Lower Upper
43 100
72 16.7 19.3 28.9#

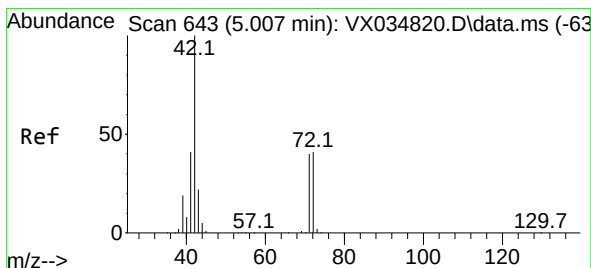
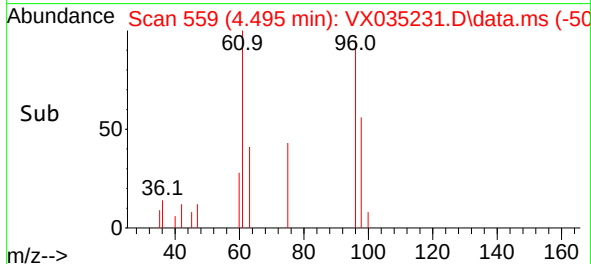
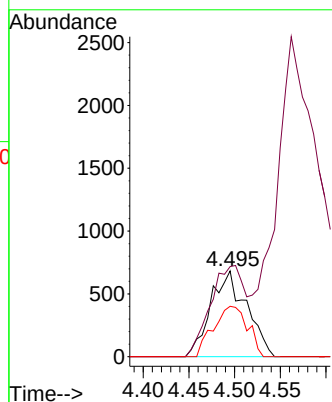
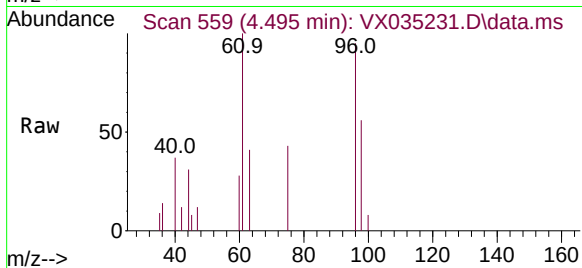




#27
 cis-1,2-Dichloroethene
 Concen: 0.548 ug/l
 RT: 4.495 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VX035231.D
 Acq: 21 Apr 2023 15:16

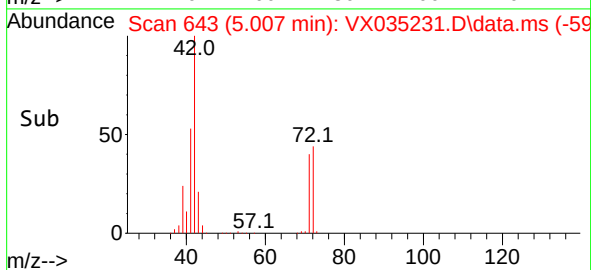
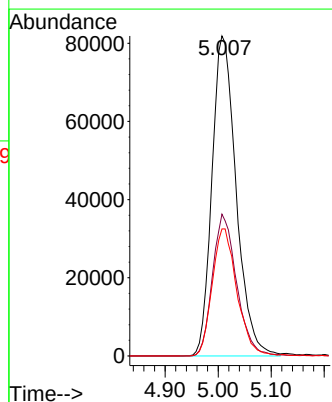
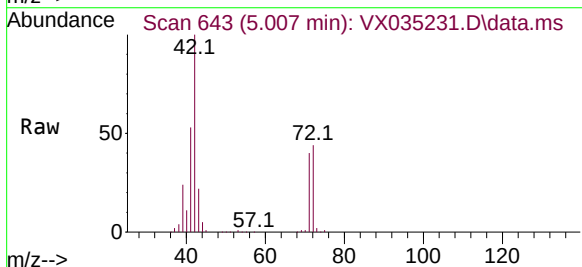
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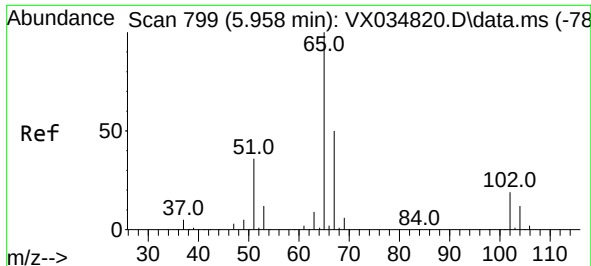
Tgt Ion:	96	Resp:	1869
Ion	Ratio	Lower	Upper
96	100		
61	100.2	0.0	300.4
98	55.9	0.0	129.0



#29
 Tetrahydrofuran
 Concen: 178.340 ug/l
 RT: 5.007 min Scan# 643
 Delta R.T. -0.000 min
 Lab File: VX035231.D
 Acq: 21 Apr 2023 15:16

Tgt Ion:	42	Resp:	259760
Ion	Ratio	Lower	Upper
42	100		
72	44.2	34.5	51.7
71	40.4	32.1	48.1





#33

1,2-Dichloroethane-d4

Concen: 39.755 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX035231.D

Acq: 21 Apr 2023 15:16

Instrument :

MSVOA_X

ClientSampleId :

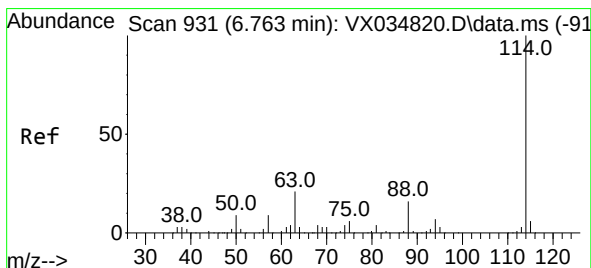
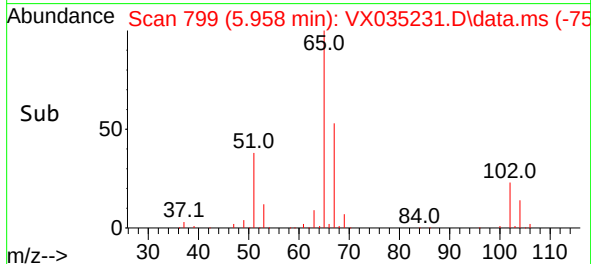
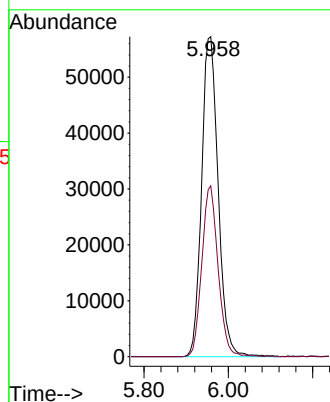
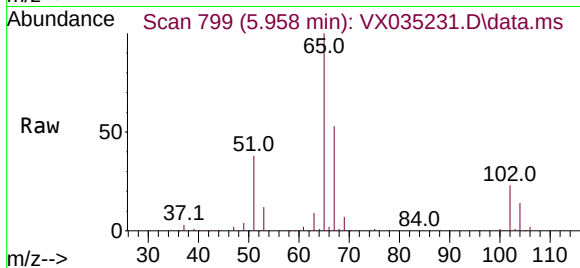
230419084-02-VOA

Tgt Ion: 65 Resp: 156422

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX035231.D

Acq: 21 Apr 2023 15:16

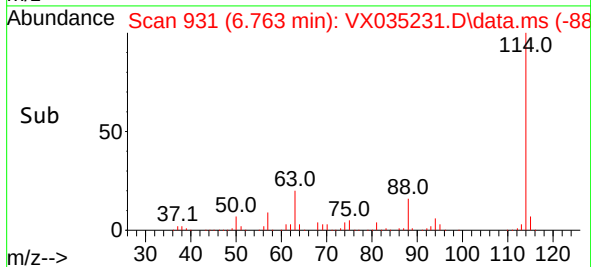
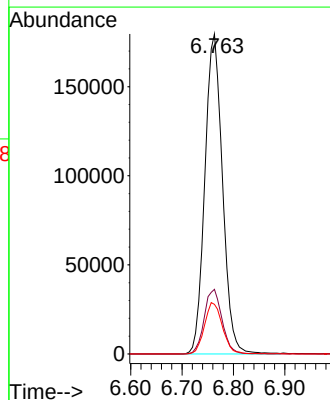
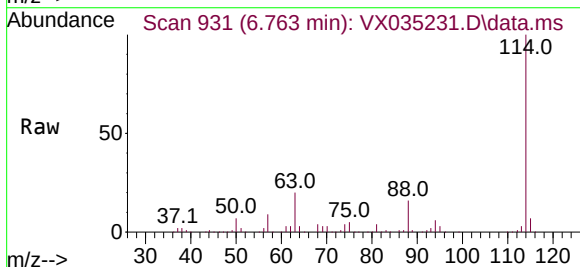
Tgt Ion: 114 Resp: 428222

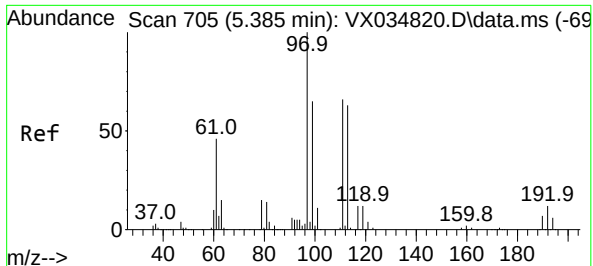
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.2

88 15.5 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.141 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX035231.D

Acq: 21 Apr 2023 15:16

Instrument :

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ClientSampleId :

230419084-02-VOA

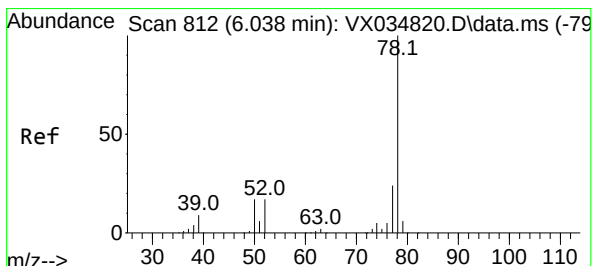
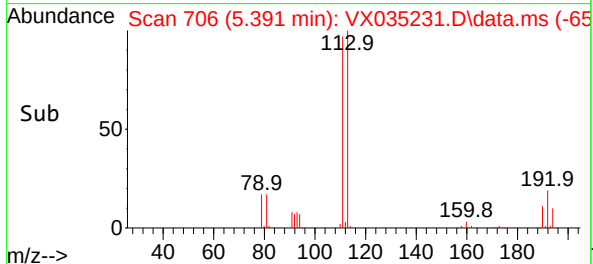
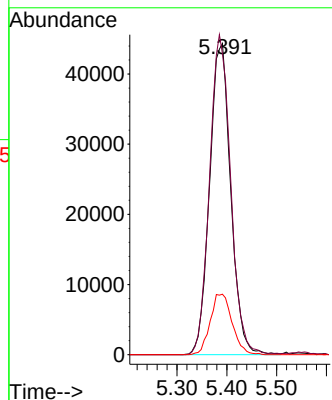
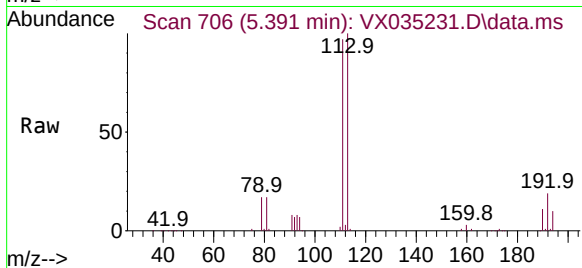
Tgt Ion:113 Resp: 130688

Ion Ratio Lower Upper

113 100

111 102.7 83.7 125.5

192 20.1 15.4 23.2



#40

Benzene

Concen: 0.900 ug/l

RT: 6.043 min Scan# 813

Delta R.T. 0.006 min

Lab File: VX035231.D

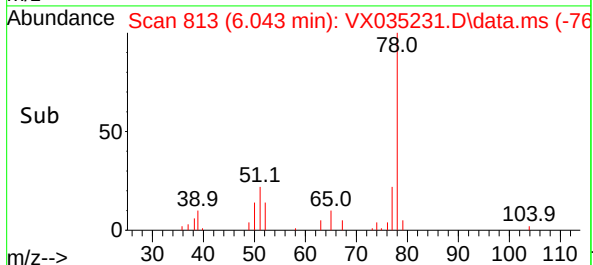
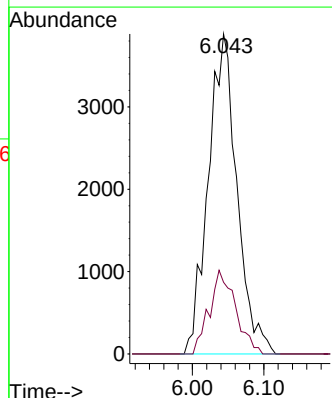
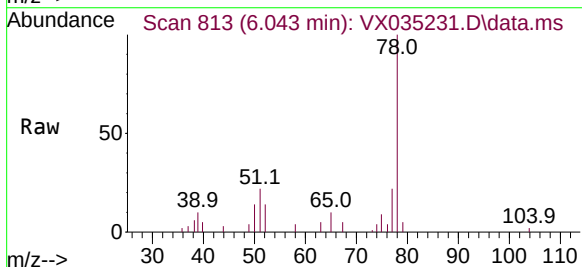
Acq: 21 Apr 2023 15:16

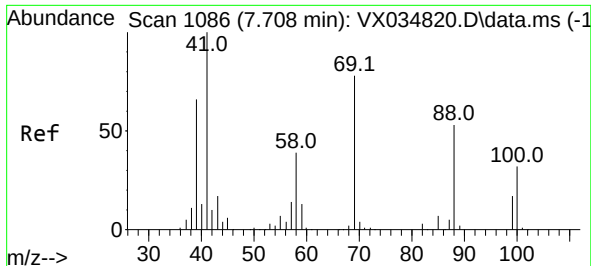
Tgt Ion: 78 Resp: 10838

Ion Ratio Lower Upper

78 100

77 22.4 19.0 28.4





#49

1,4-Dioxane

Concen: 206.659 ug/l

RT: 7.702 min Scan# 1086

Delta R.T. -0.006 min

Lab File: VX035231.D

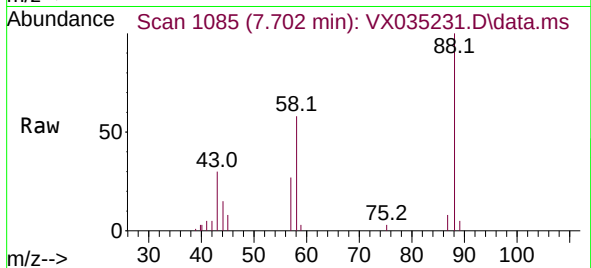
Acq: 21 Apr 2023 15:16

Instrument :

MSVOA_X

ClientSampleId :

230419084-02-VOA



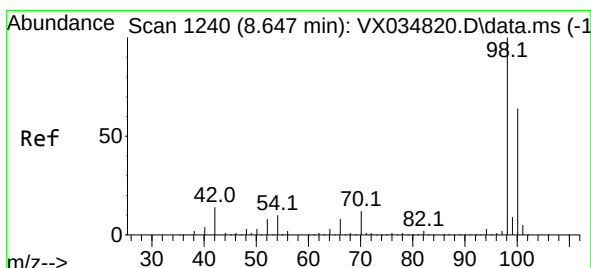
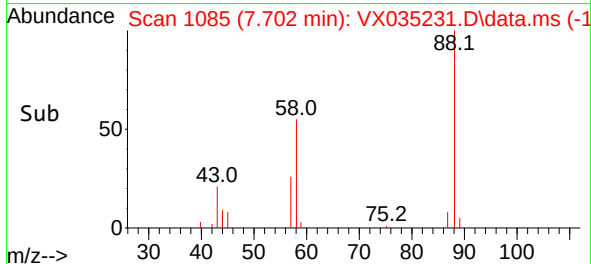
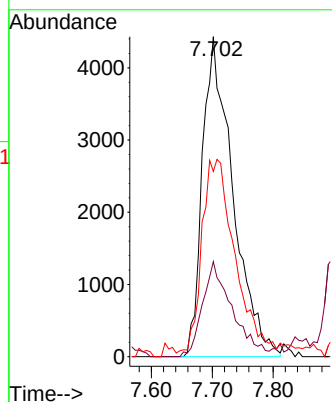
Tgt Ion: 88 Resp: 15353

Ion Ratio Lower Upper

88 100

43 28.9 27.7 41.5

58 64.5 56.8 85.2



#50

Toluene-d8

Concen: 48.493 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX035231.D

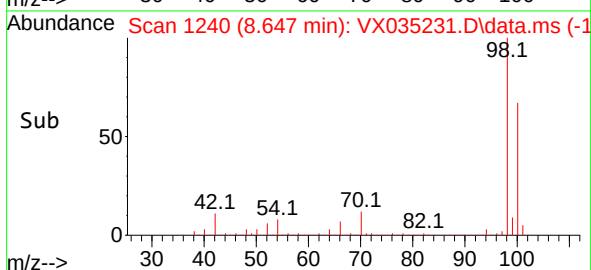
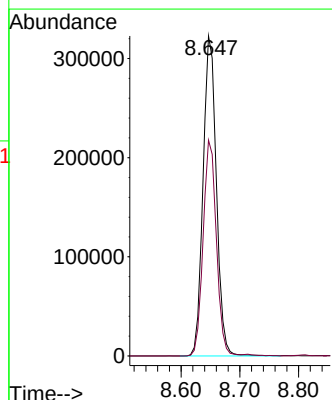
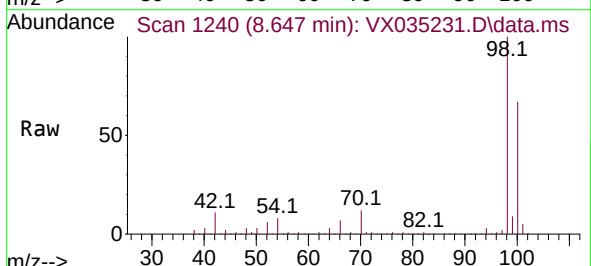
Acq: 21 Apr 2023 15:16

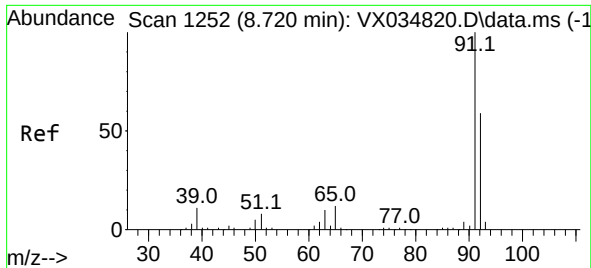
Tgt Ion: 98 Resp: 506961

Ion Ratio Lower Upper

98 100

100 67.0 52.5 78.7

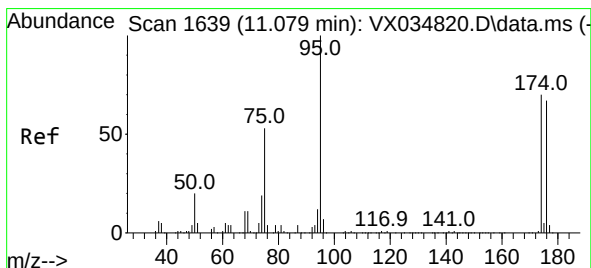
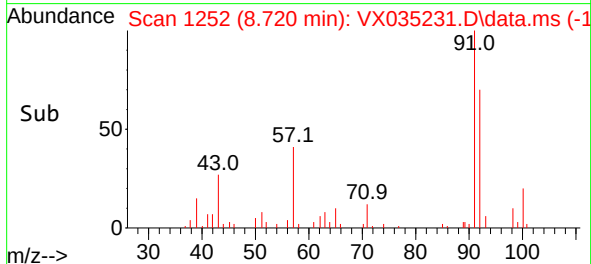
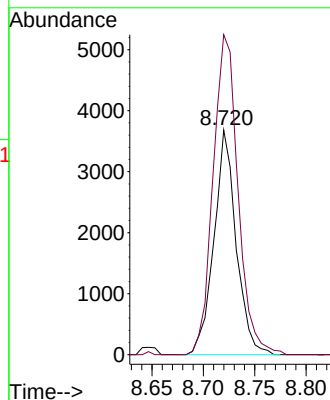
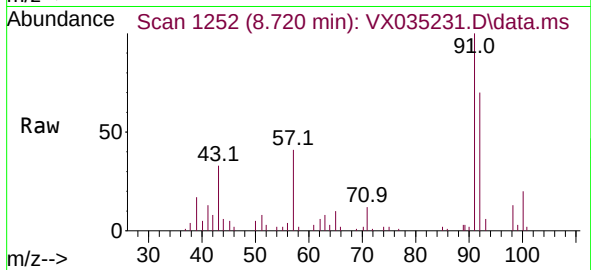




#52
Toluene
Concen: 0.704 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

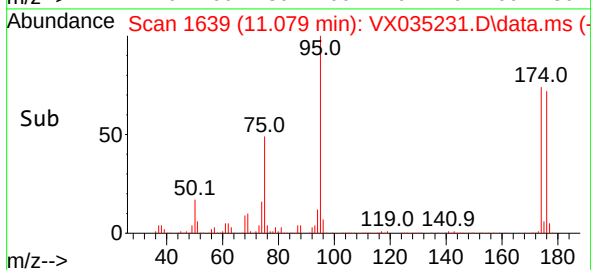
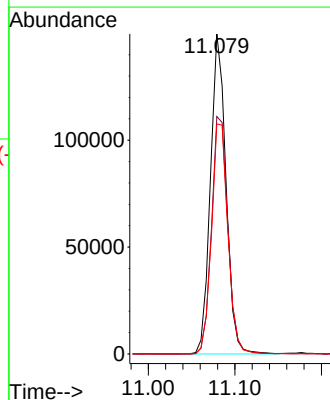
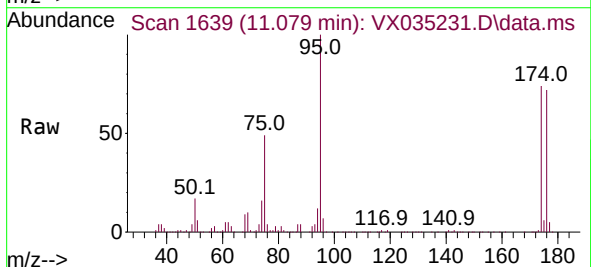
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

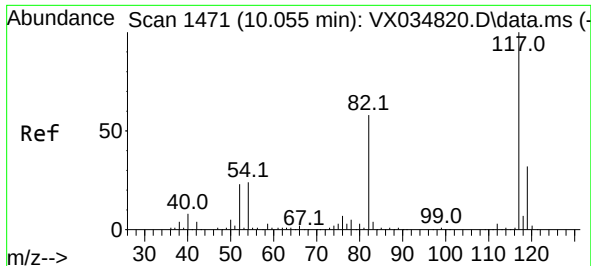
Tgt Ion: 92 Resp: 5531
Ion Ratio Lower Upper
92 100
91 160.1 136.8 205.2



#62
4-Bromofluorobenzene
Concen: 46.183 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion: 95 Resp: 186835
Ion Ratio Lower Upper
95 100
174 78.0 0.0 147.4
176 75.9 0.0 140.6

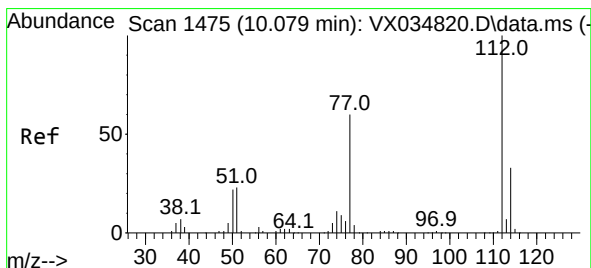
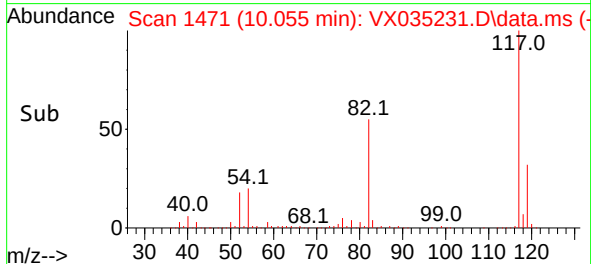
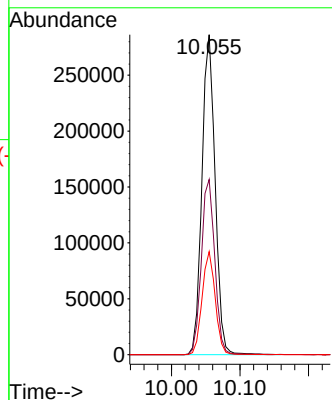
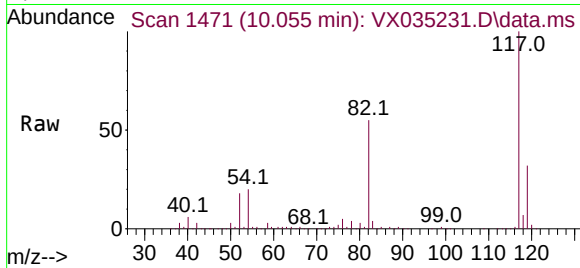




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

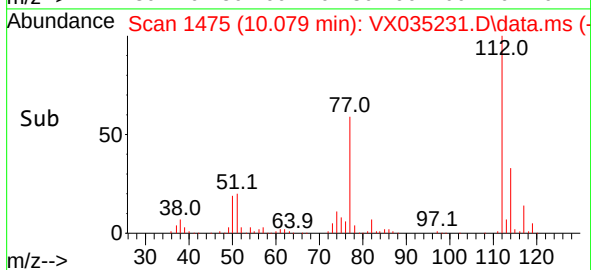
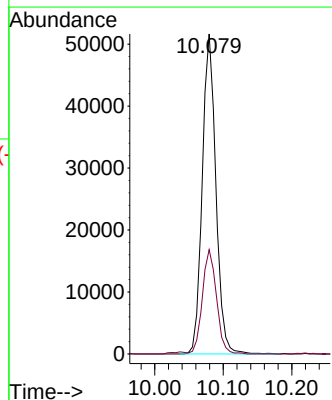
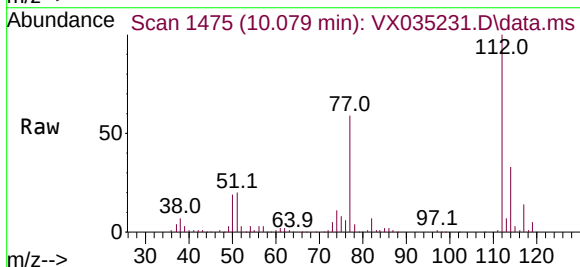
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

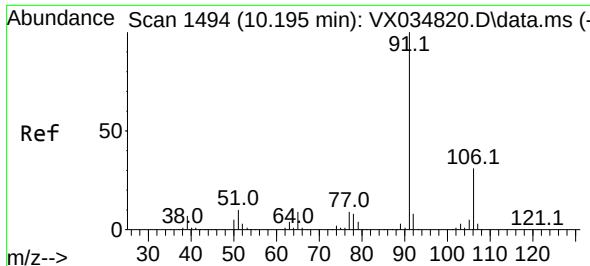
Tgt Ion:117 Resp: 384379
Ion Ratio Lower Upper
117 100
82 54.8 45.0 67.4
119 32.2 26.0 39.0



#65
Chlorobenzene
Concen: 8.941 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion:112 Resp: 71507
Ion Ratio Lower Upper
112 100
114 32.6 26.2 39.2

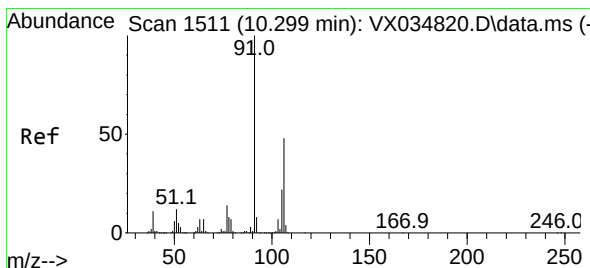
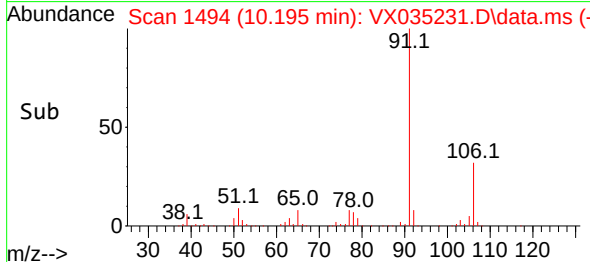
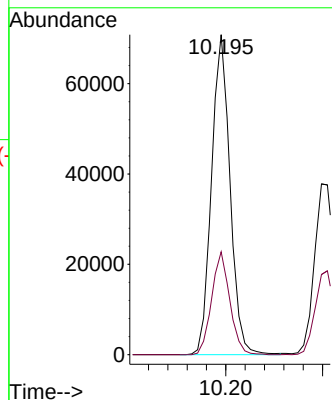
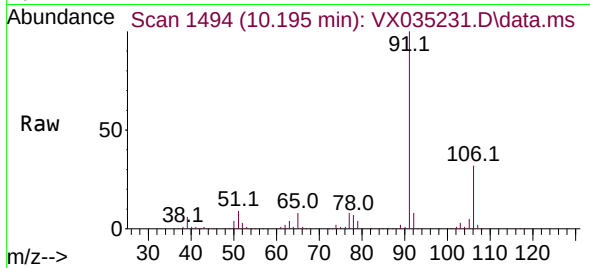




#67
Ethyl Benzene
Concen: 6.479 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

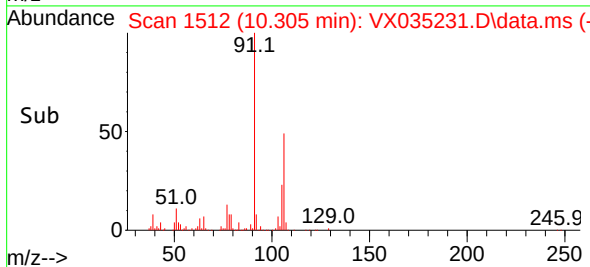
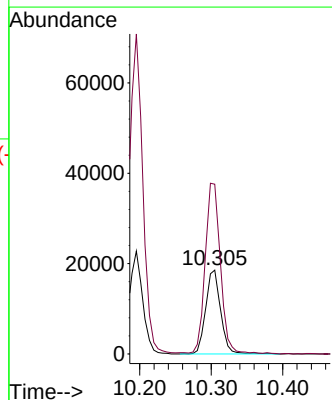
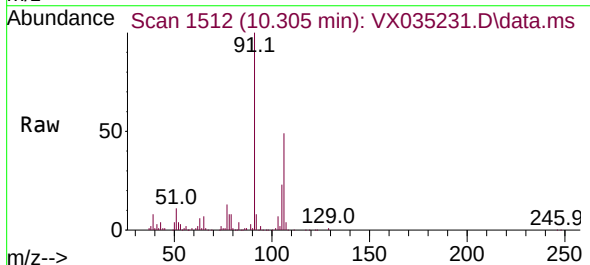
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

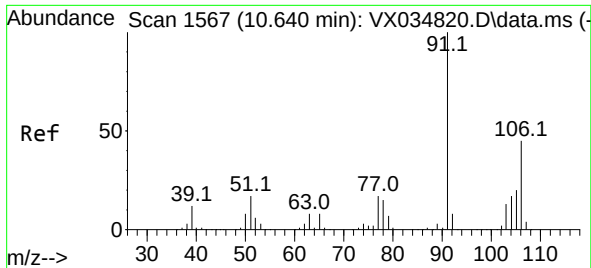
Tgt Ion: 91 Resp: 93868
Ion Ratio Lower Upper
91 100
106 32.2 25.6 38.4



#68
m/p-Xylenes
Concen: 4.870 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion: 106 Resp: 26950
Ion Ratio Lower Upper
106 100
91 205.5 164.0 246.0

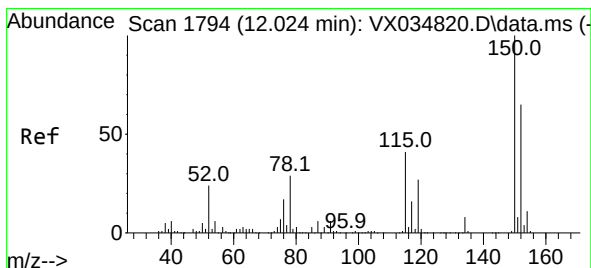
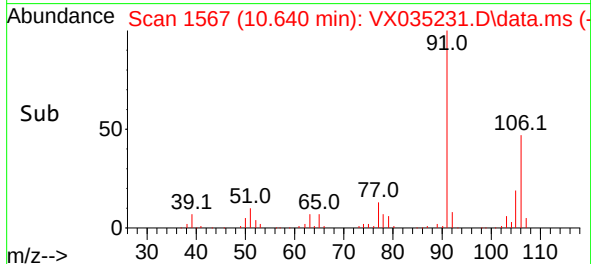
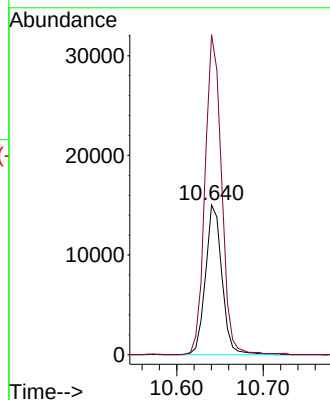
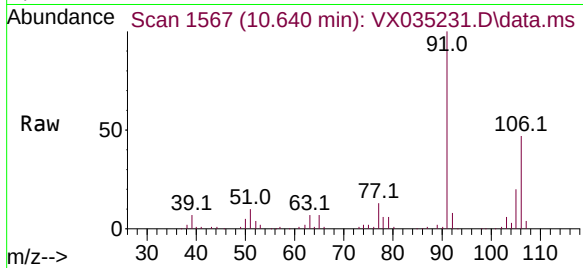




#69
o-Xylene
Concen: 3.658 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

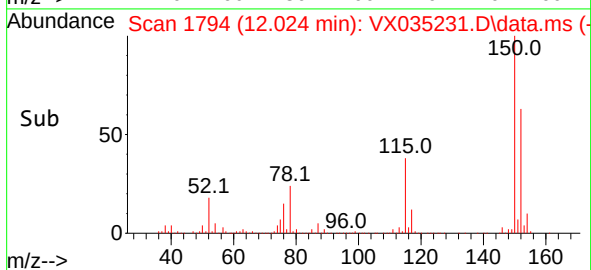
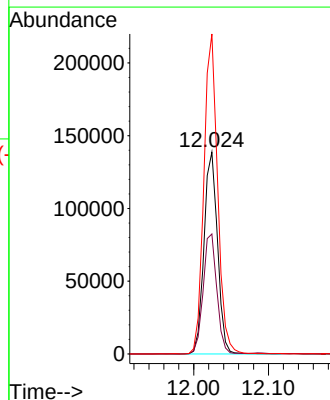
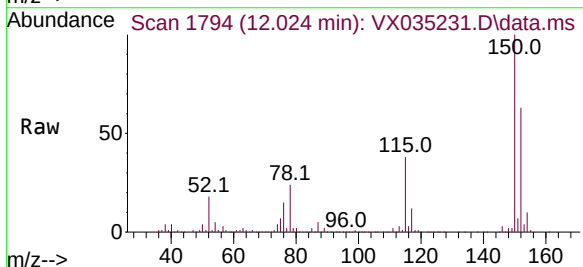
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

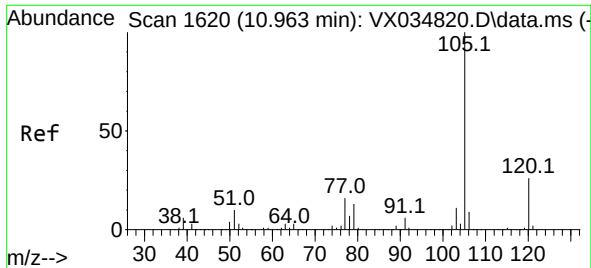
Tgt Ion:106 Resp: 19831
Ion Ratio Lower Upper
106 100
91 215.2 108.5 325.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion:152 Resp: 174020
Ion Ratio Lower Upper
152 100
115 60.2 45.0 135.0
150 160.9 0.0 352.4

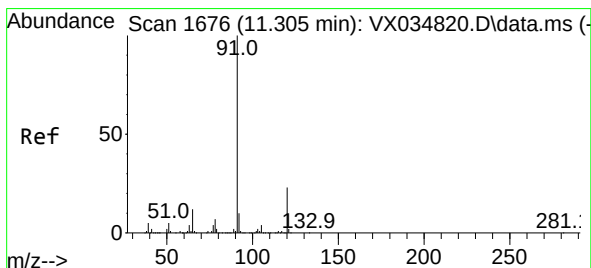
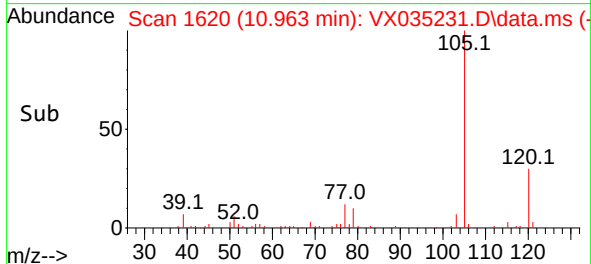
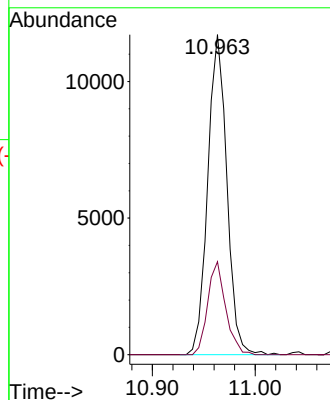
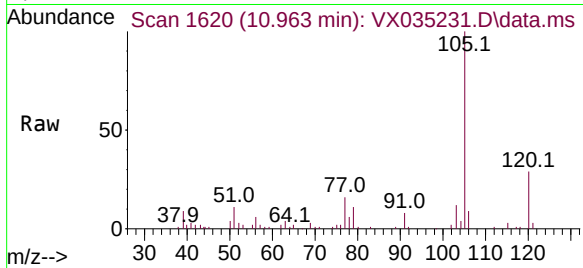




#73
Isopropylbenzene
Concen: 1.185 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

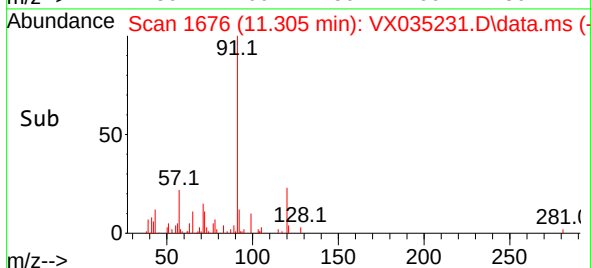
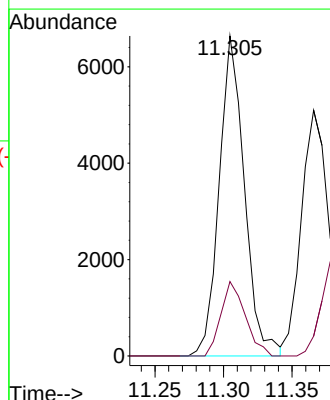
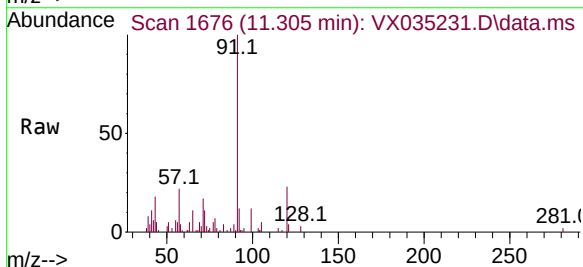
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

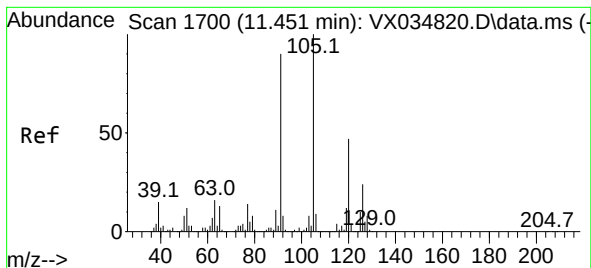
Tgt Ion:105 Resp: 15109
Ion Ratio Lower Upper
105 100
120 27.4 13.3 39.9



#78
n-propylbenzene
Concen: 0.576 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion: 91 Resp: 8489
Ion Ratio Lower Upper
91 100
120 22.5 11.5 34.5





#80

1,3,5-Trimethylbenzene

Concen: 0.700 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX035231.D

Acq: 21 Apr 2023 15:16

Instrument :

MSVOA_X

ClientSampleId :

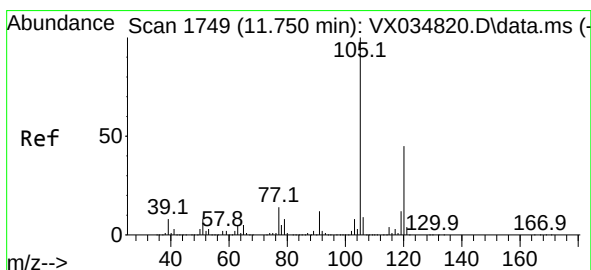
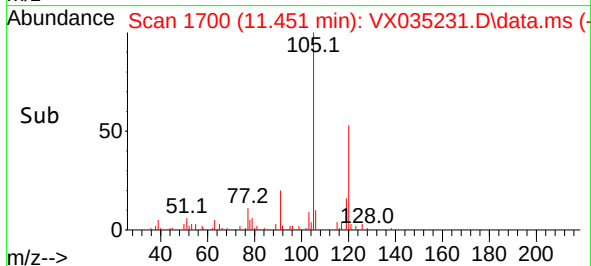
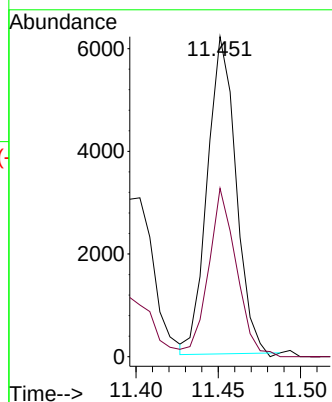
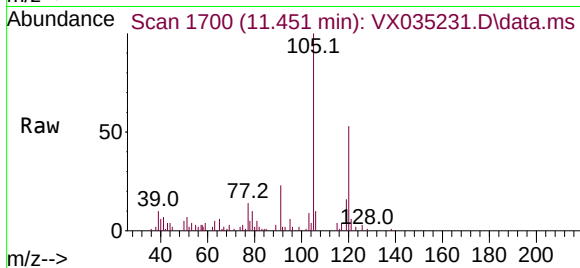
230419084-02-VOA

Tgt Ion:105 Resp: 7460

Ion Ratio Lower Upper

105 100

120 51.8 23.7 71.1



#84

1,2,4-Trimethylbenzene

Concen: 2.781 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX035231.D

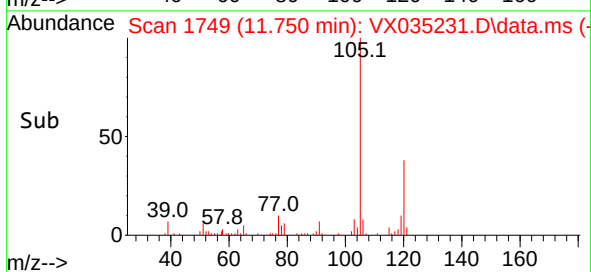
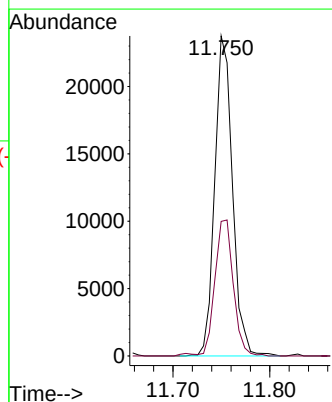
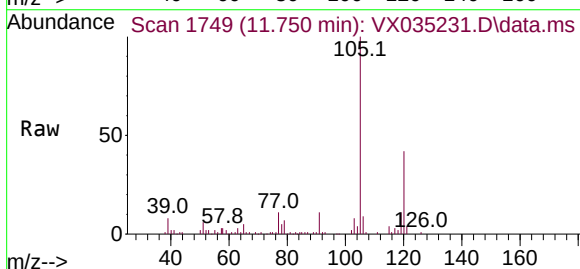
Acq: 21 Apr 2023 15:16

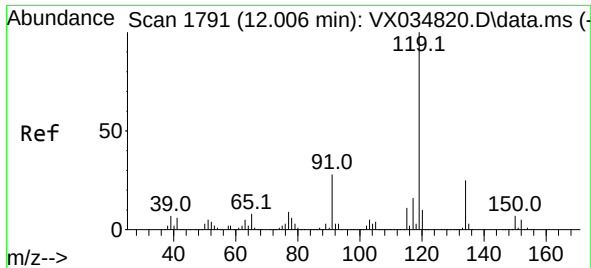
Tgt Ion:105 Resp: 30147

Ion Ratio Lower Upper

105 100

120 44.1 22.4 67.0

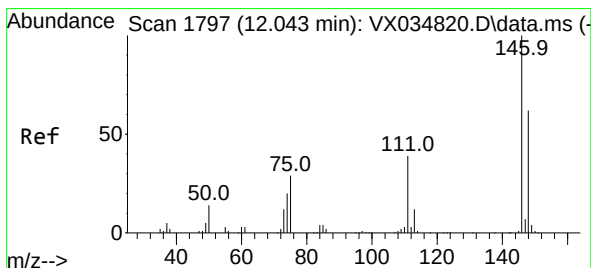
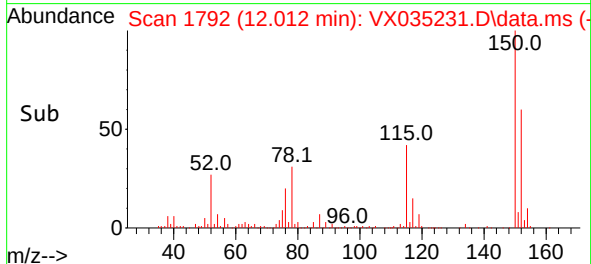
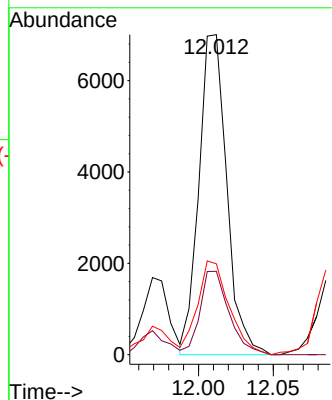
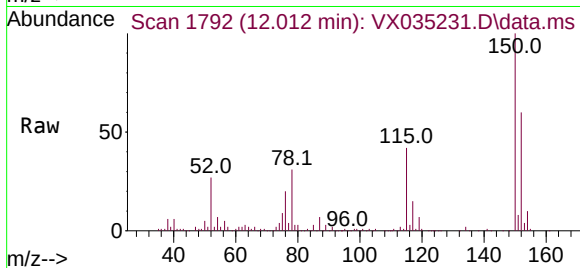




#86
p-Isopropyltoluene
Concen: 0.894 ug/l
RT: 12.012 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

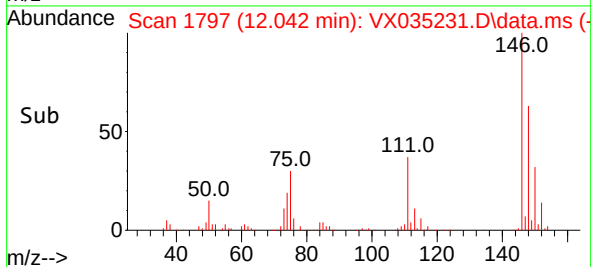
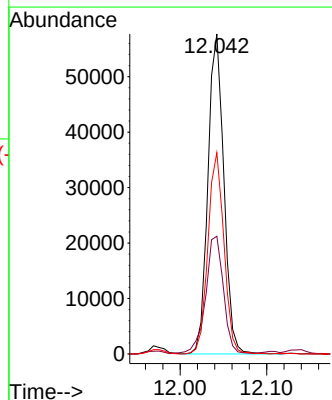
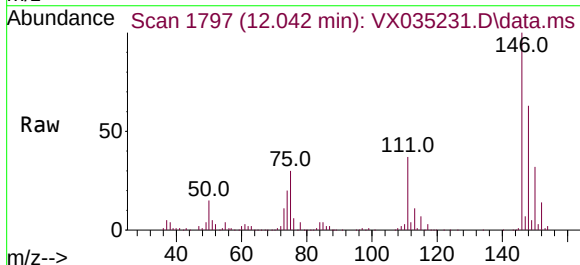
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

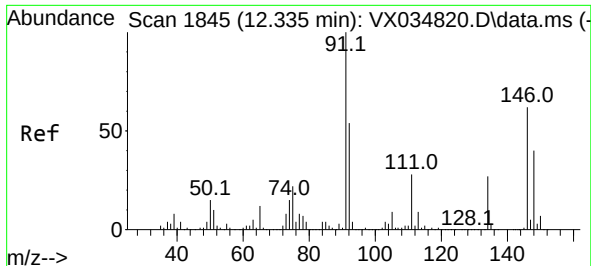
Tgt Ion:119 Resp: 9077
Ion Ratio Lower Upper
119 100
134 27.2 13.2 39.5
91 33.4 12.9 38.7



#88
1,4-Dichlorobenzene
Concen: 12.267 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.001 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion:146 Resp: 73698
Ion Ratio Lower Upper
146 100
111 40.9 20.6 61.9
148 63.3 31.8 95.4

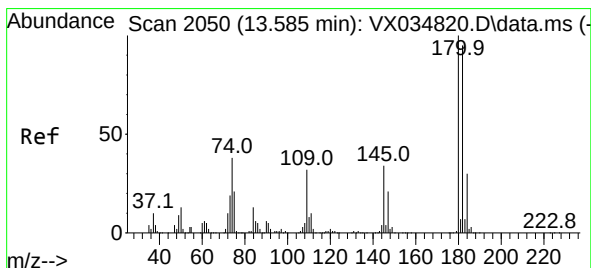
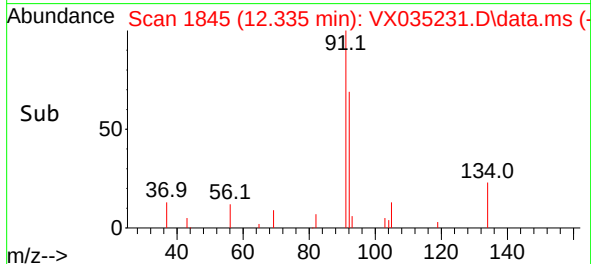
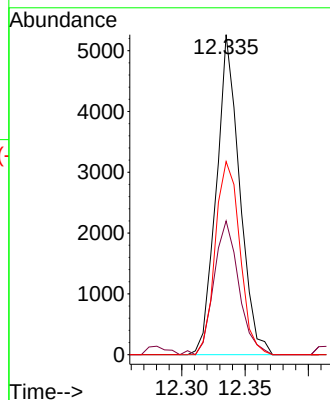
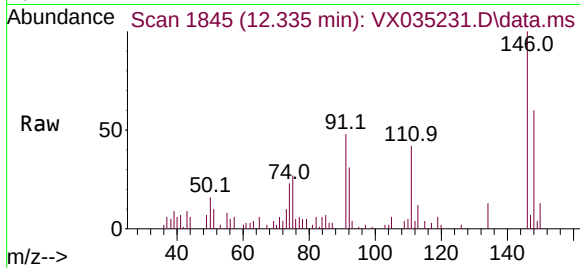




#91
1,2-Dichlorobenzene
Concen: 1.167 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

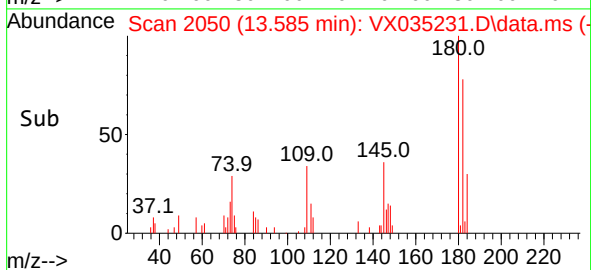
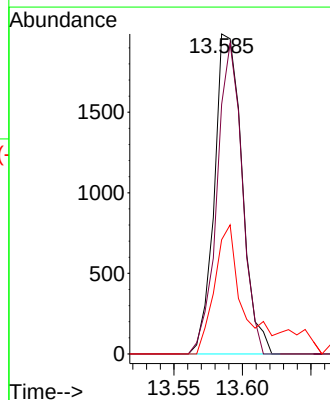
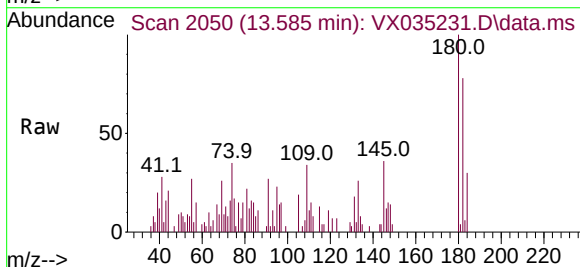
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

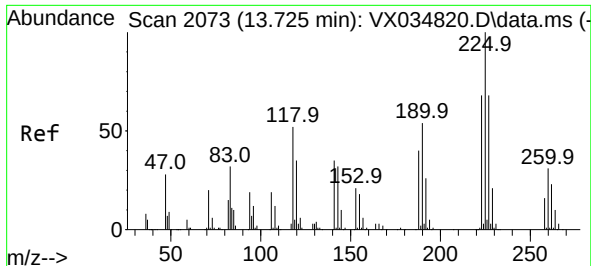
Tgt Ion:146 Resp: 6722
Ion Ratio Lower Upper
146 100
111 44.7 22.0 66.0
148 63.7 32.0 96.0



#93
1,2,4-Trichlorobenzene
Concen: 0.856 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion:180 Resp: 2789
Ion Ratio Lower Upper
180 100
182 88.1 47.0 141.0
145 42.1 15.9 47.7

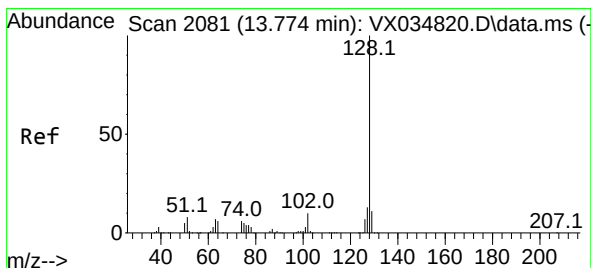
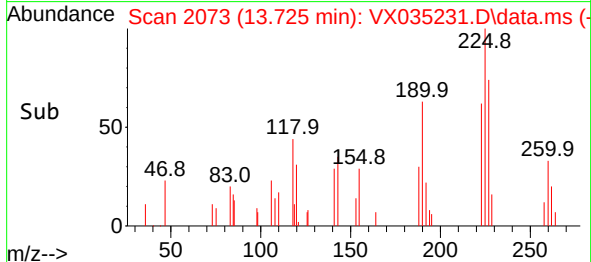
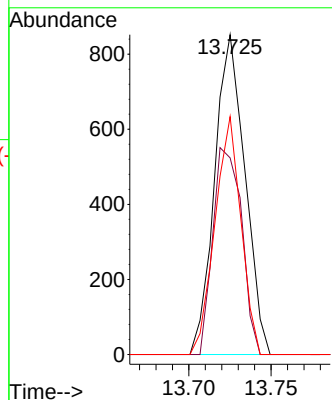
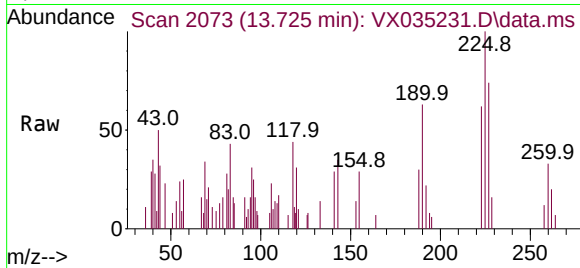




#94
Hexachlorobutadiene
Concen: 0.762 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

Tgt Ion:	225	Resp:	1092
Ion Ratio	Lower	Upper	
225	100		
223	61.1	32.1	96.5
227	63.7	31.8	95.4



#95
Naphthalene
Concen: 9.613 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX035231.D
Acq: 21 Apr 2023 15:16

Tgt Ion:	128	Resp:	111298
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.2	15.4
129	11.1	8.6	13.0

