

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091422\
 Data File : VX031316.D
 Acq On : 14 Sep 2022 19:27
 Operator : JC/MD
 Sample : N4588-04 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 AUD-1666

Quant Time: Sep 15 06:04:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091422W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 15 01:50:07 2022
 Response via : Initial Calibration

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

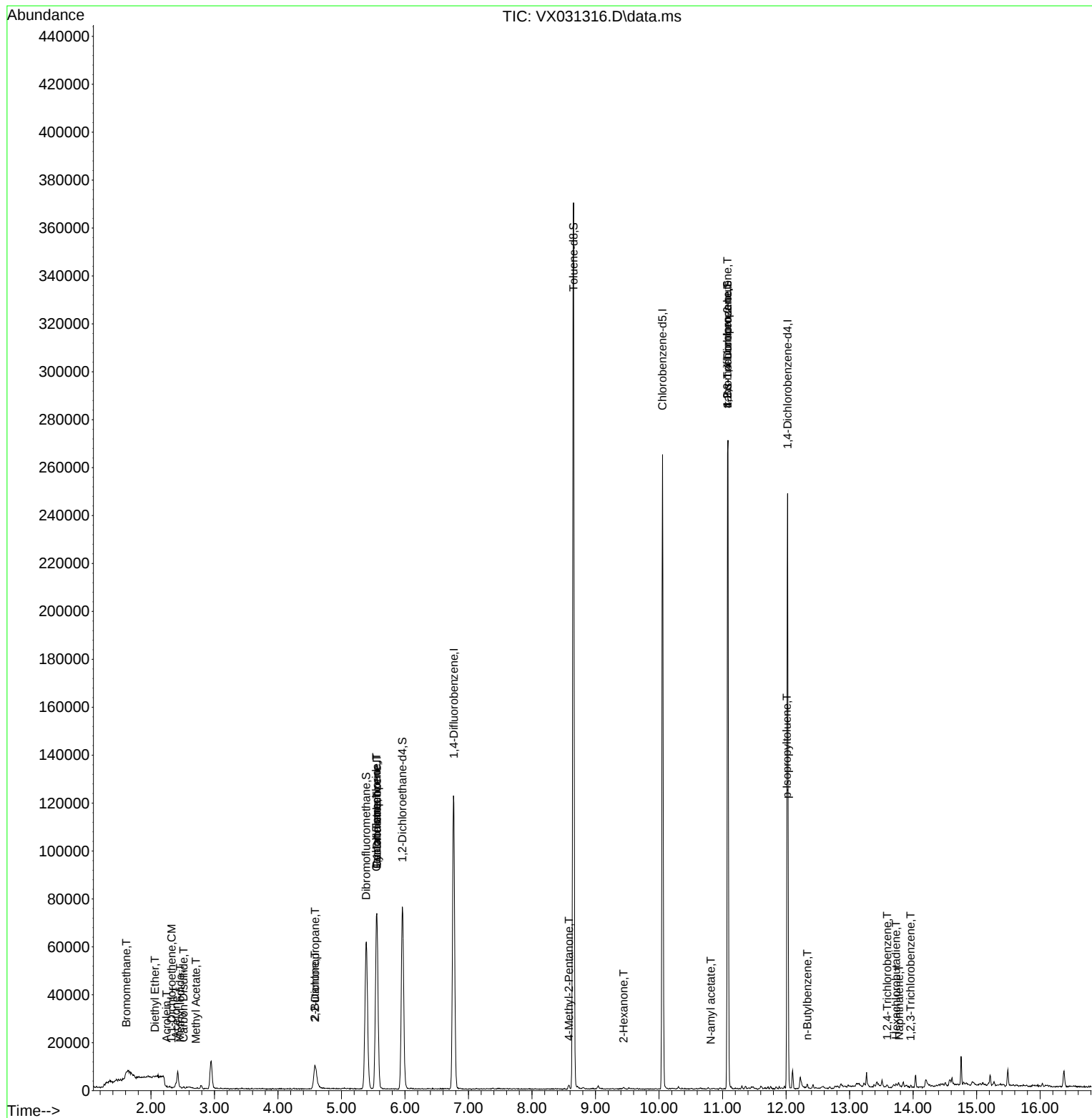
Internal Standards						
1) Pentafluorobenzene	5.556	168	65221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	117105	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	106901	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	44703	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	72449	45.256	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.520%		
35) Dibromofluoromethane	5.385	113	51489	40.903	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	81.800%		
50) Toluene-d8	8.653	98	205537	43.528	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	87.060%		
62) 4-Bromofluorobenzene	11.079	95	68206	39.445	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	78.900%#		
Target Compounds						
					Qvalue	
3) Chloromethane	1.288	50	218	Below Cal	#	82
5) Bromomethane	1.612	94	279	0.326	ug/l	89
8) Diethyl Ether	2.063	74	50	0.579	ug/l #	1
10) Methyl Iodide	2.459	142	275	1.165	ug/l #	83
11) Tert butyl alcohol	2.941	59	7390	Below Cal	#	75
12) 1,1-Dichloroethene	2.325	96	203	0.223	ug/l #	1
13) Acrolein	2.246	56	127	0.687	ug/l #	15
16) Acetone	2.392	43	2795	4.090	ug/l #	81
17) Carbon Disulfide	2.514	76	767	1.225	ug/l #	75
18) Methyl Acetate	2.709	43	611	0.301	ug/l #	52
20) Methylene Chloride	2.794	84	522	Below Cal	#	84
21) trans-1,2-Dichloroethene	3.093	96	200	Below Cal	#	32
25) 2-Butanone	4.581	43	2861	2.538	ug/l	96
26) 2,2-Dichloropropane	4.587	77	777	0.371	ug/l #	54
31) Cyclohexane	5.556	56	2122	1.234	ug/l #	2
36) 1,1-Dichloropropene	5.556	75	6429	3.731	ug/l #	48
38) Carbon Tetrachloride	5.550	117	7110	3.796	ug/l #	17
51) 4-Methyl-2-Pentanone	8.580	43	1184	0.504	ug/l #	82
59) 2-Hexanone	9.439	43	550	0.307	ug/l	88
74) N-amyl acetate	10.817	43	364	0.222	ug/l #	50
76) 1,2,3-Trichloropropane	11.079	75	39440	35.010	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	39440	96.875	ug/l #	11
86) p-Isopropyltoluene	12.012	119	648	0.229	ug/l #	83
89) n-Butylbenzene	12.335	91	645	0.258	ug/l	99
93) 1,2,4-Trichlorobenzene	13.591	180	314	0.397	ug/l	91
94) Hexachlorobutadiene	13.731	225	107	0.346	ug/l #	56
95) Naphthalene	13.780	128	869	0.270	ug/l #	90
96) 1,2,3-Trichlorobenzene	13.963	180	218	0.257	ug/l	84

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

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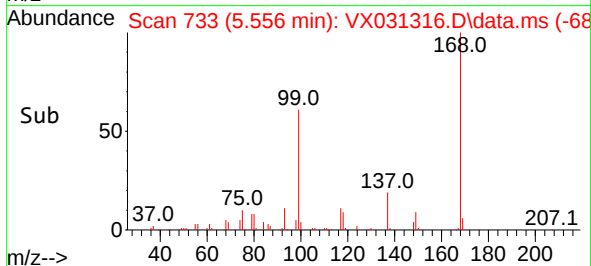
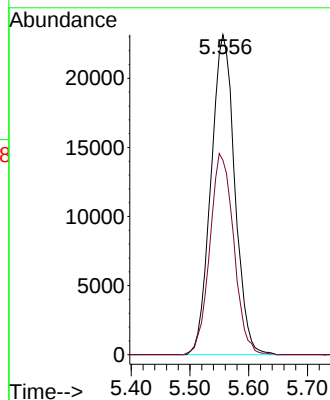
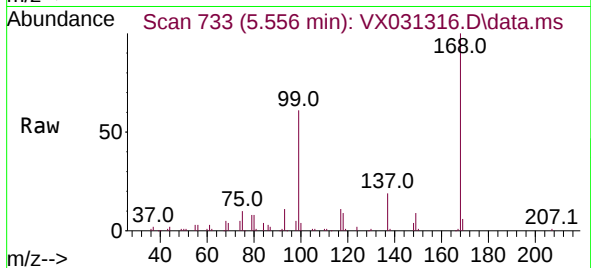




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

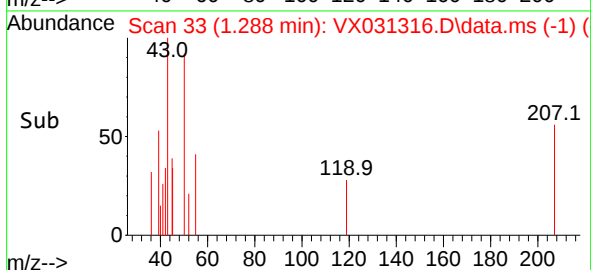
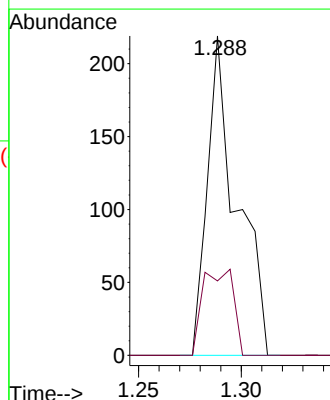
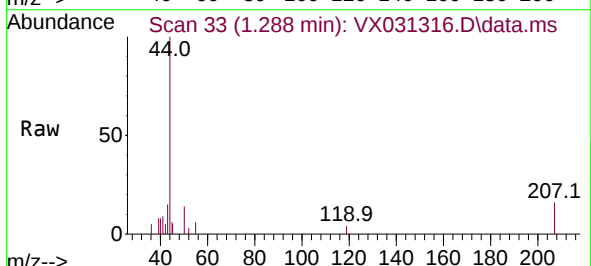
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

Tgt Ion:168 Resp: 65221
Ion Ratio Lower Upper
168 100
99 60.8 48.8 73.2



#3
Chloromethane
Concen: Below Cal
RT: 1.288 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 50 Resp: 218
Ion Ratio Lower Upper
50 100
52 23.3 26.9 40.3#

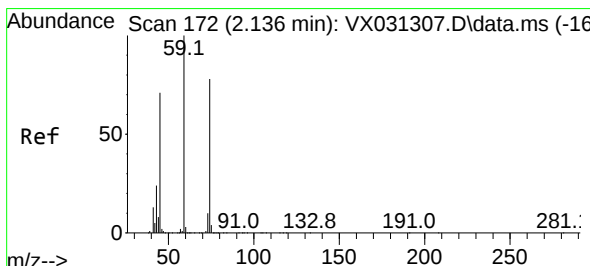
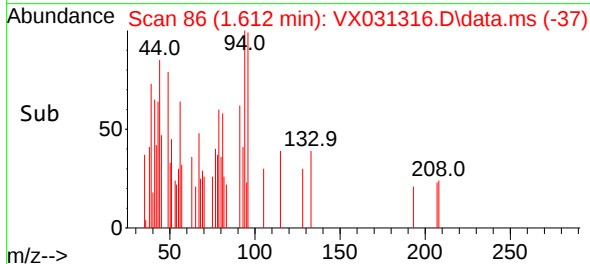
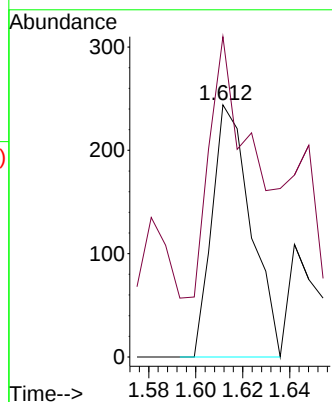
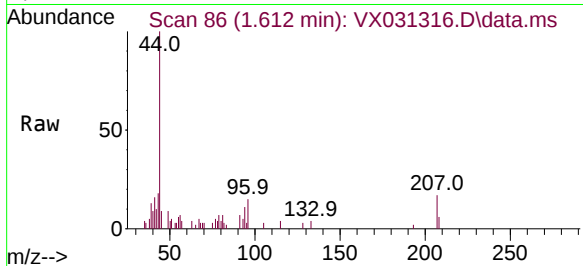




#5
Bromomethane
Concen: 0.326 ug/l
RT: 1.612 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

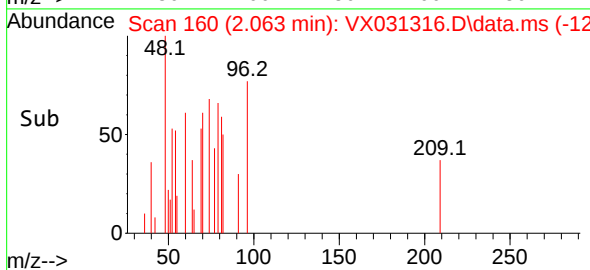
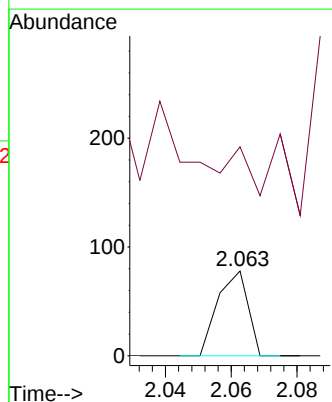
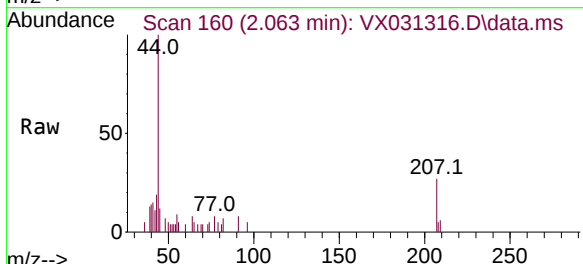
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

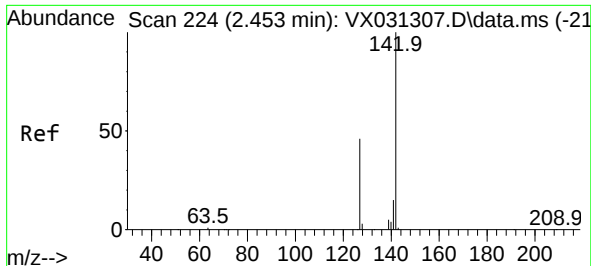
Tgt Ion: 94 Resp: 279
Ion Ratio Lower Upper
94 100
96 103.7 74.4 111.6



#8
Diethyl Ether
Concen: 0.579 ug/l
RT: 2.063 min Scan# 160
Delta R.T. -0.073 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 74 Resp: 50
Ion Ratio Lower Upper
74 100
45 0.0 48.5 145.6#





#10

Methyl Iodide

Concen: 1.165 ug/l

RT: 2.459 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX031316.D

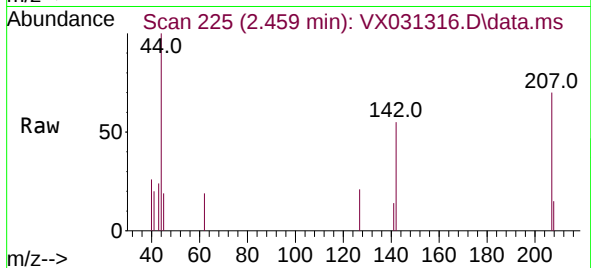
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Instrument :

MSVOA_X

ClientSampleId :

AUD-1666



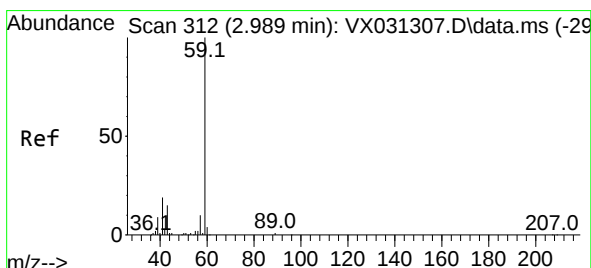
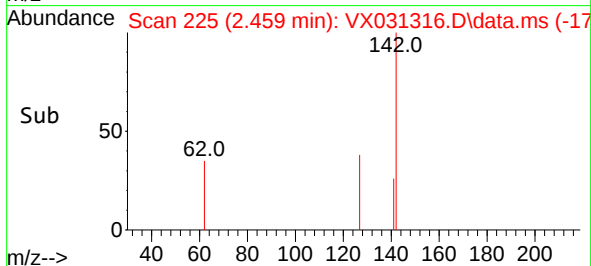
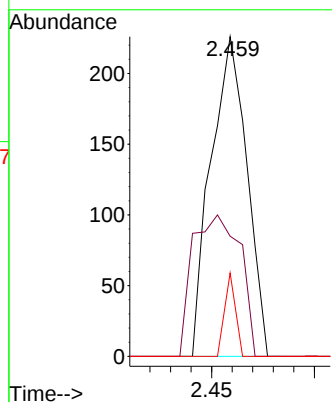
Tgt Ion:142 Resp: 275

Ion Ratio Lower Upper

142 100

127 58.5 37.4 56.0#

141 8.0 11.6 17.4#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.941 min Scan# 304

Delta R.T. -0.048 min

Lab File: VX031316.D

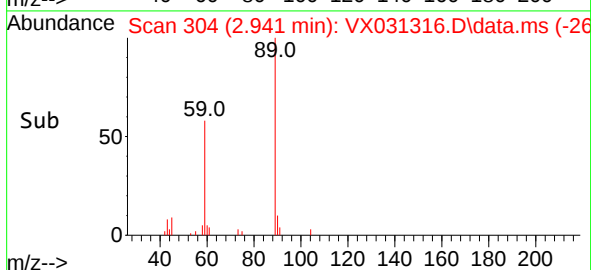
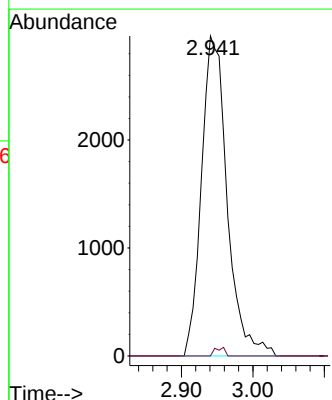
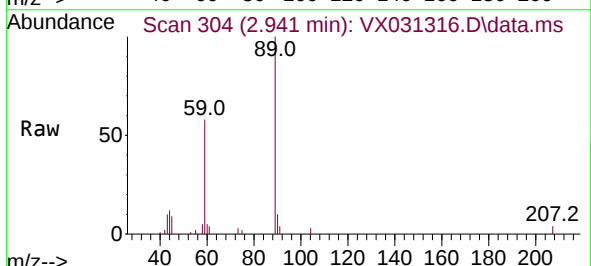
Acq: 14 Sep 2022 19:27

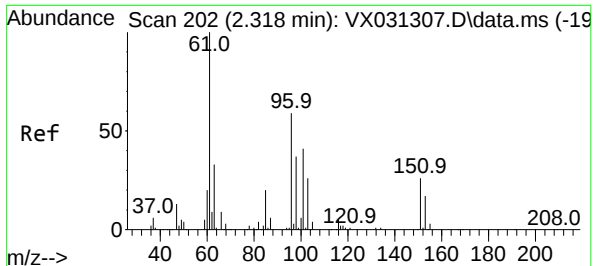
Tgt Ion: 59 Resp: 7390

Ion Ratio Lower Upper

59 100

57 1.0 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 0.223 ug/l

RT: 2.325 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX031316.D

Acq: 14 Sep 2022 19:27

Instrument :

MSVOA_X

ClientSampleId :

AUD-1666

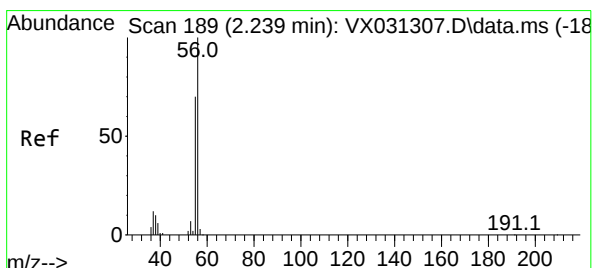
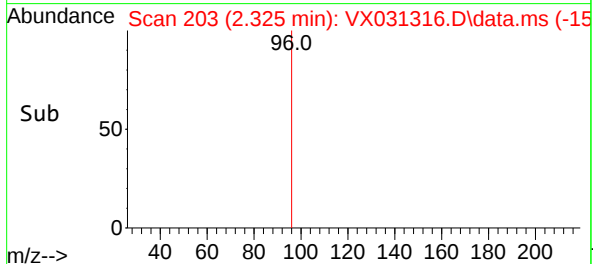
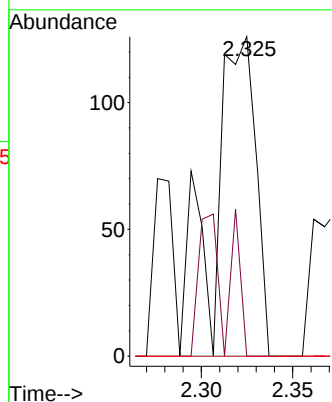
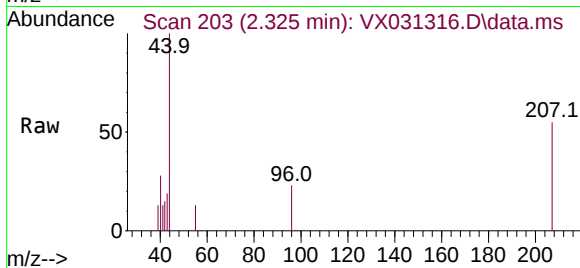
Tgt Ion: 96 Resp: 203

Ion Ratio Lower Upper

96 100

61 0.0 135.3 202.9#

98 0.0 49.4 74.2#



#13

Acrolein

Concen: 0.687 ug/l

RT: 2.246 min Scan# 190

Delta R.T. 0.007 min

Lab File: VX031316.D

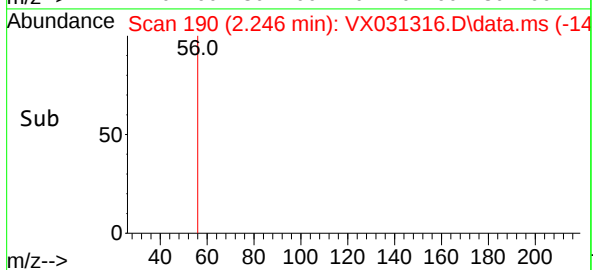
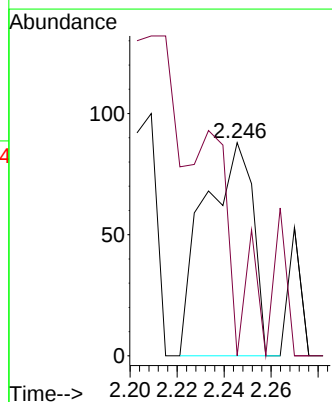
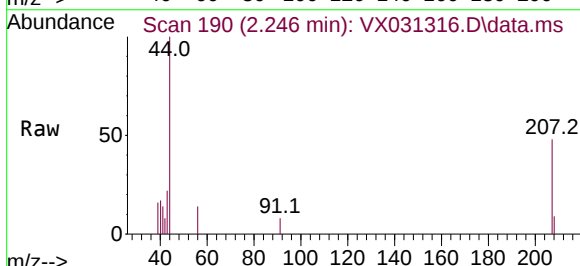
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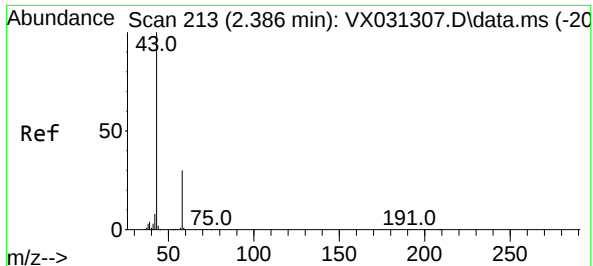
Tgt Ion: 56 Resp: 127

Ion Ratio Lower Upper

56 100

55 0.0 56.0 84.0#

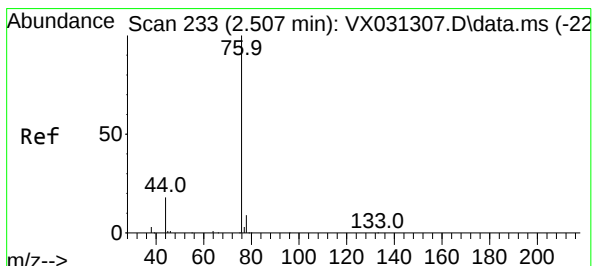
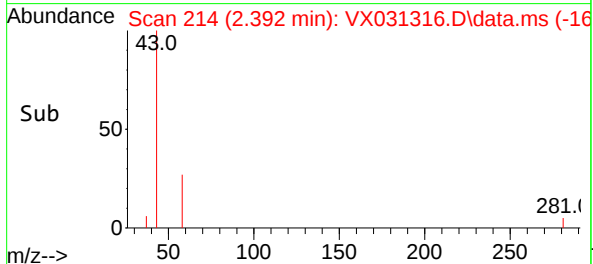
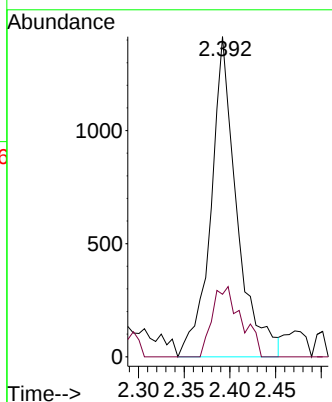
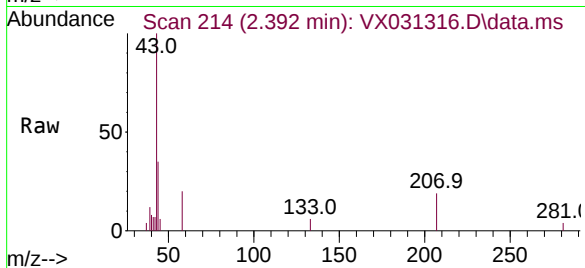




#16
Acetone
Concen: 4.090 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

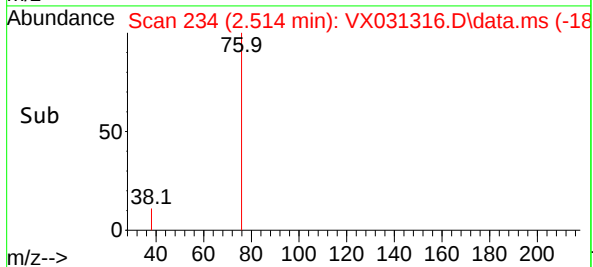
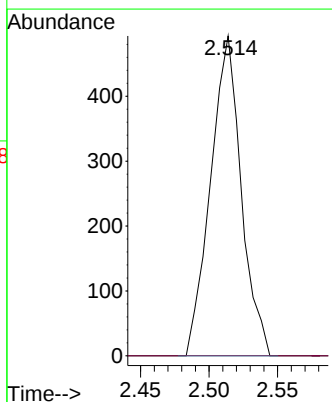
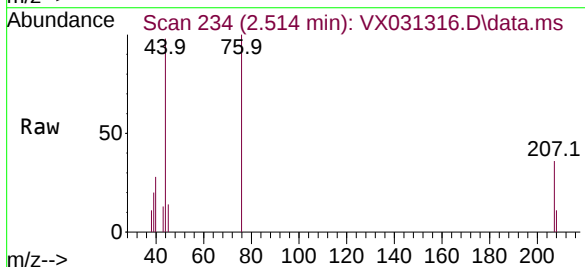
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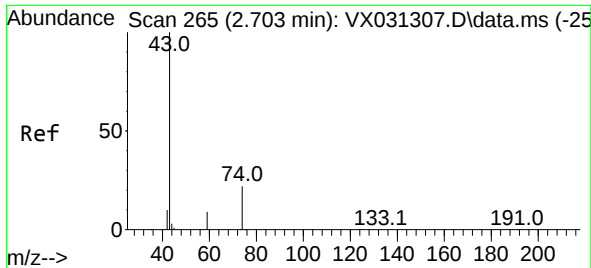
Tgt Ion: 43 Resp: 2795
Ion Ratio Lower Upper
43 100
58 19.5 23.8 35.8#



#17
Carbon Disulfide
Concen: 1.225 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.007 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 76 Resp: 767
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

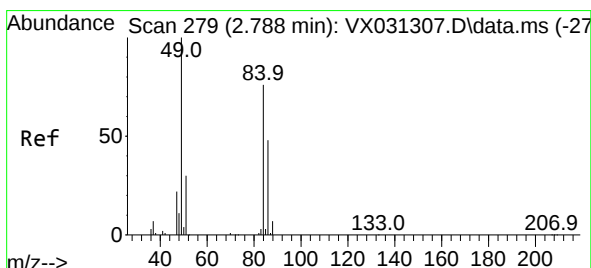
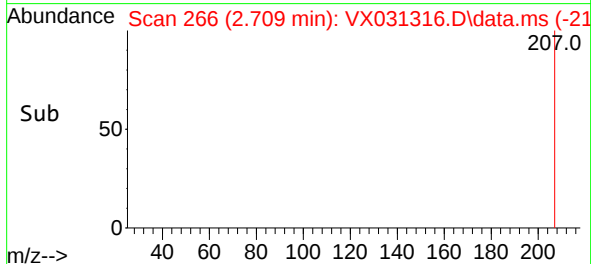
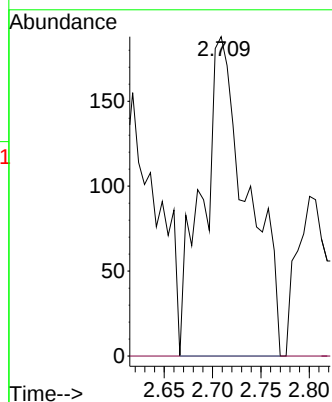
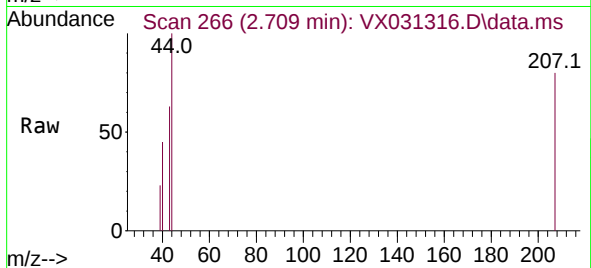




#18
Methyl Acetate
Concen: 0.301 ug/l
RT: 2.709 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

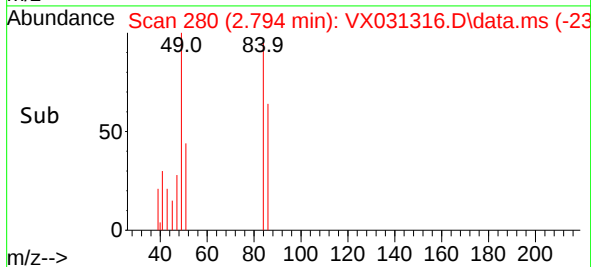
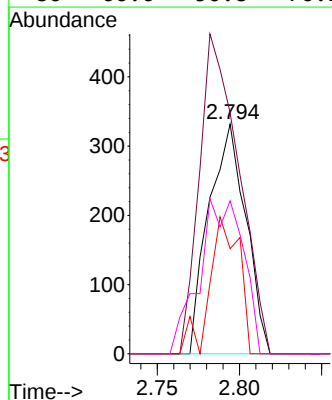
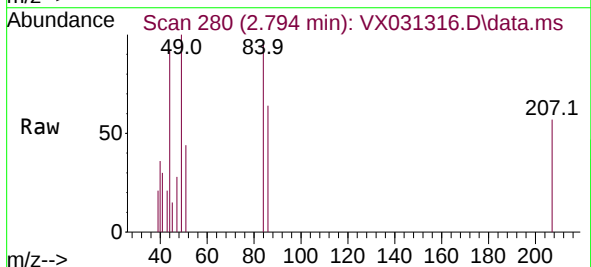
Instrument :
MSVOA_X
ClientSampleId :
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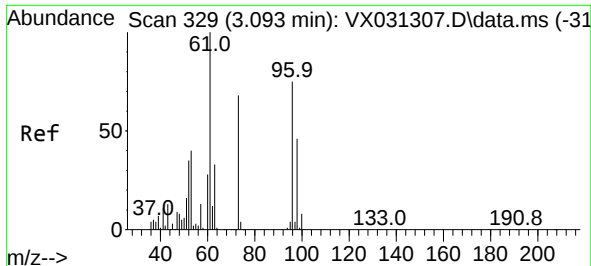
Tgt Ion: 43 Resp: 611
Ion Ratio Lower Upper
43 100
74 0.0 18.6 27.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 84 Resp: 522
Ion Ratio Lower Upper
84 100
49 104.8 105.9 158.9#
51 45.8 32.2 48.2
86 66.6 50.8 76.2

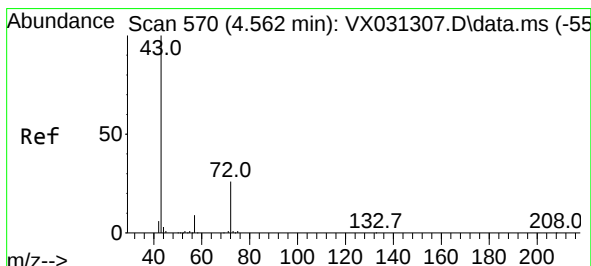
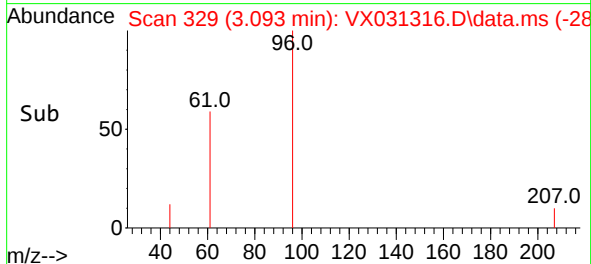
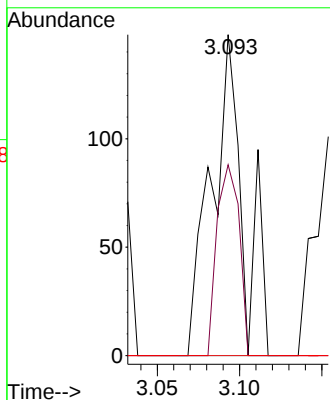
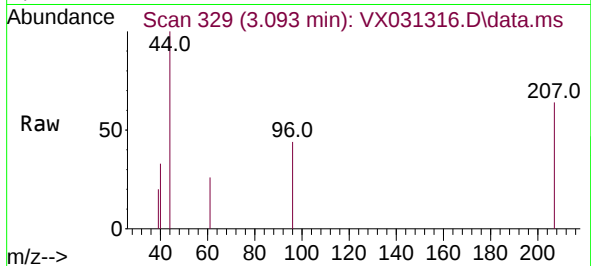




#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

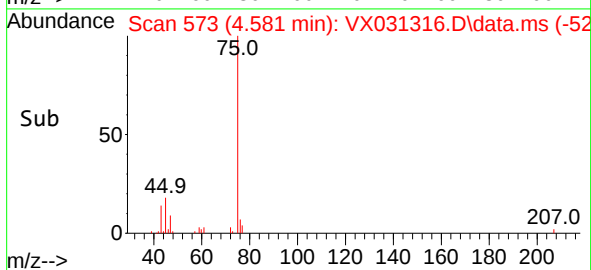
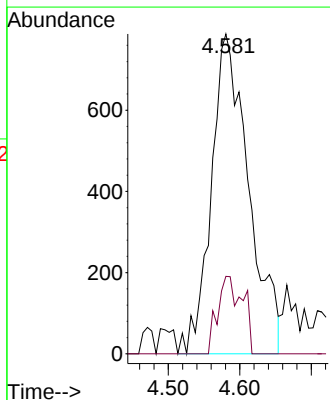
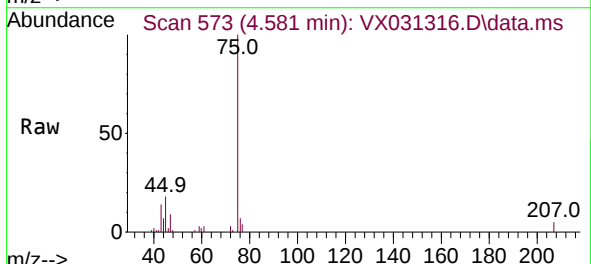
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

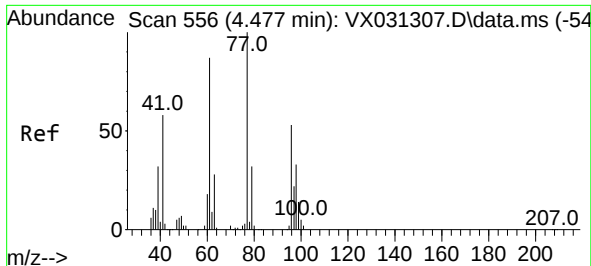
Tgt Ion: 96 Resp: 200
Ion Ratio Lower Upper
96 100
61 59.5 106.7 160.1#
98 0.0 48.7 73.1#



#25
2-Butanone
Concen: 2.538 ug/l
RT: 4.581 min Scan# 573
Delta R.T. 0.019 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 43 Resp: 2861
Ion Ratio Lower Upper
43 100
72 24.2 21.1 31.7

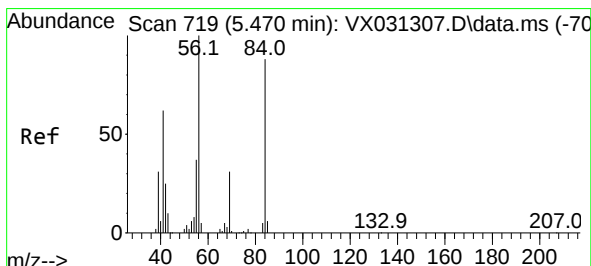
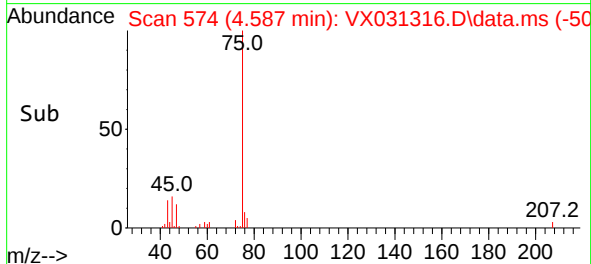
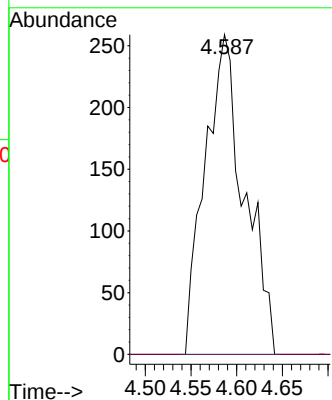
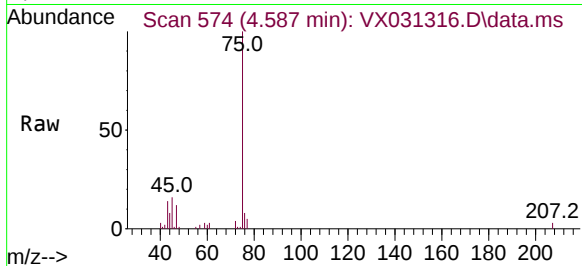




#26
2,2-Dichloropropane
Concen: 0.371 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.110 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

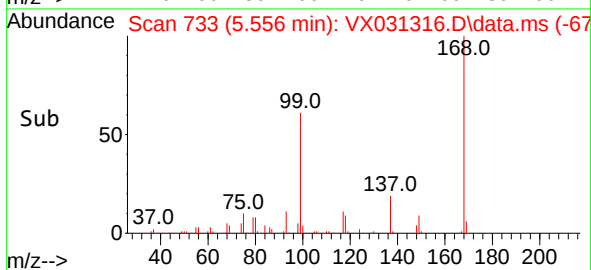
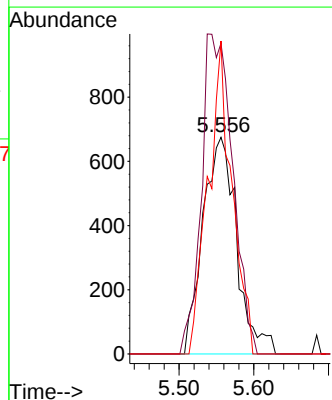
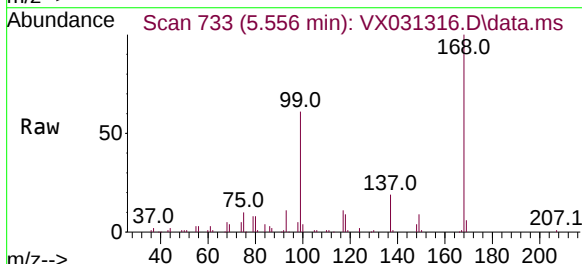
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

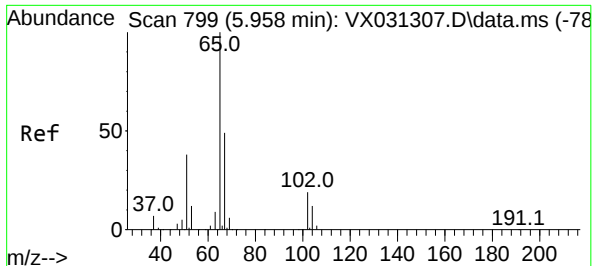
Tgt Ion: 77 Resp: 777
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.6#



#31
Cyclohexane
Concen: 1.234 ug/l
RT: 5.556 min Scan# 733
Delta R.T. 0.086 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 56 Resp: 2122
Ion Ratio Lower Upper
56 100
69 143.4 25.1 37.7#
84 144.4 70.2 105.4#

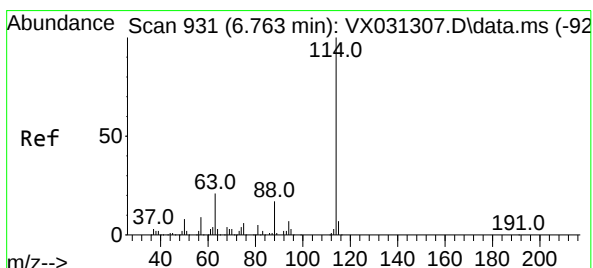
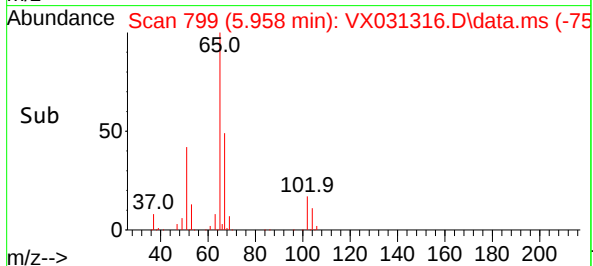
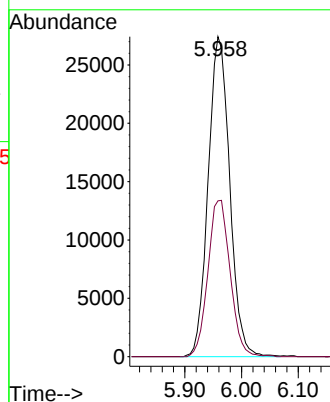
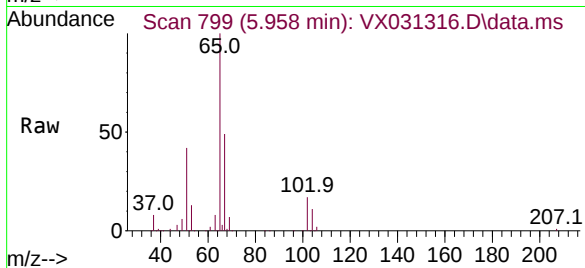




#33
1,2-Dichloroethane-d4
Concen: 45.256 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

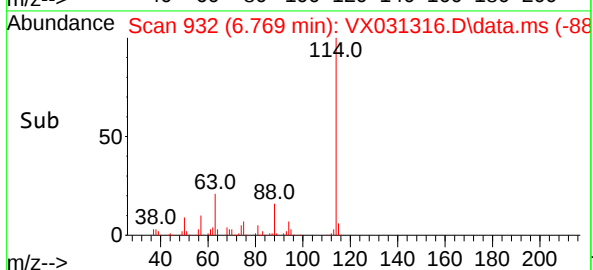
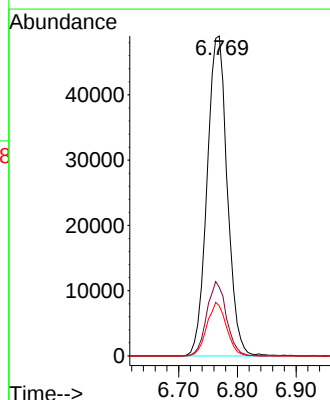
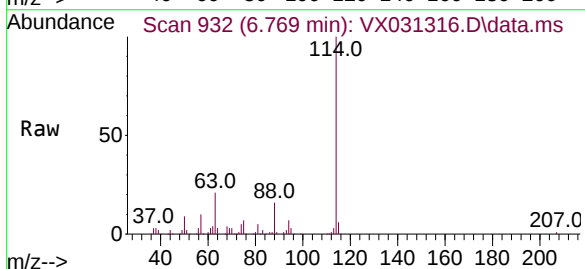
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

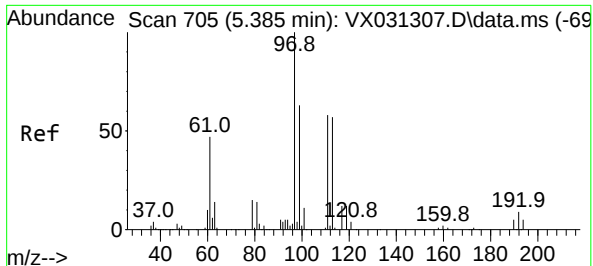
Tgt Ion: 65 Resp: 72449
Ion Ratio Lower Upper
65 100
67 50.4 0.0 102.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.006 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 114 Resp: 117105
Ion Ratio Lower Upper
114 100
63 21.5 0.0 42.6
88 15.6 0.0 33.0





#35

Dibromofluoromethane

Concen: 40.903 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX031316.D

Acq: 14 Sep 2022 19:27

Instrument :

MSVOA_X

ClientSampleId :

AUD-1666

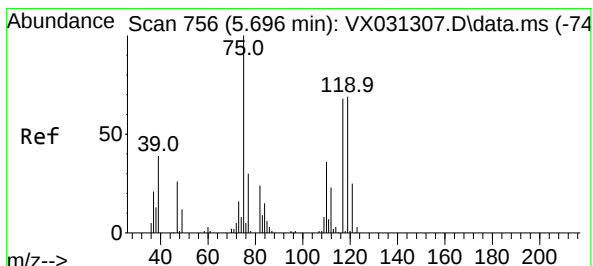
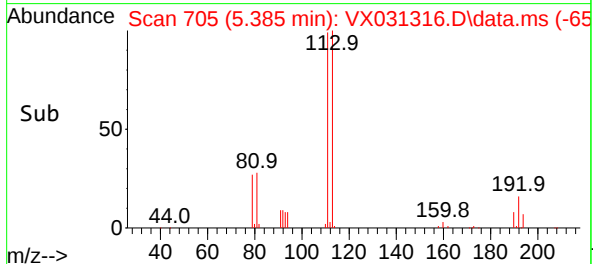
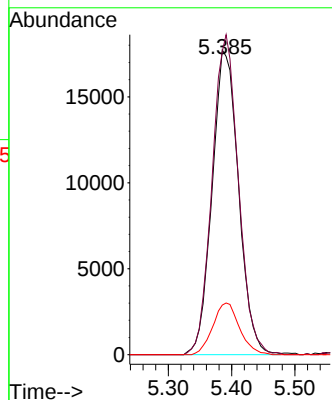
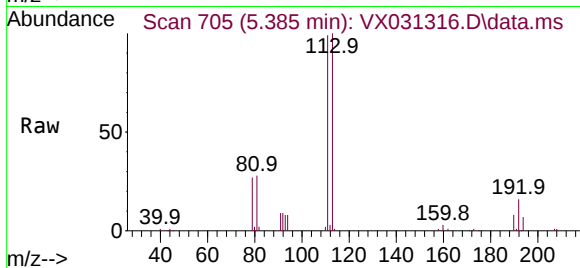
Tgt Ion:113 Resp: 51489

Ion Ratio Lower Upper

113 100

111 104.3 82.4 123.6

192 17.1 14.1 21.1



#36

1,1-Dichloropropene

Concen: 3.731 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX031316.D

Acq: 14 Sep 2022 19:27

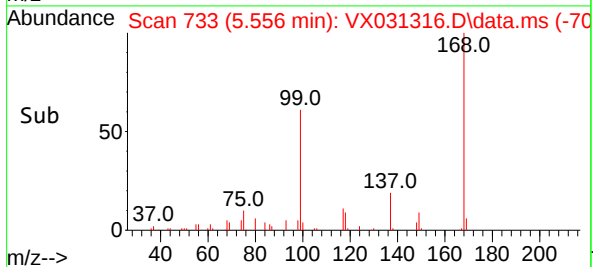
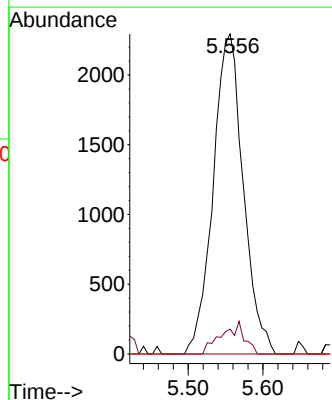
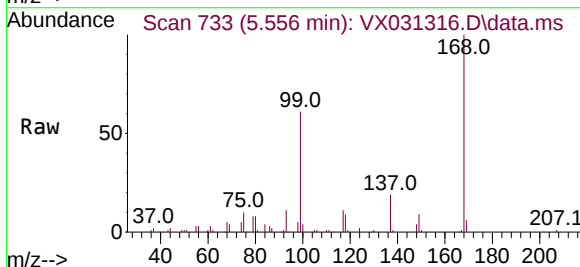
Tgt Ion: 75 Resp: 6429

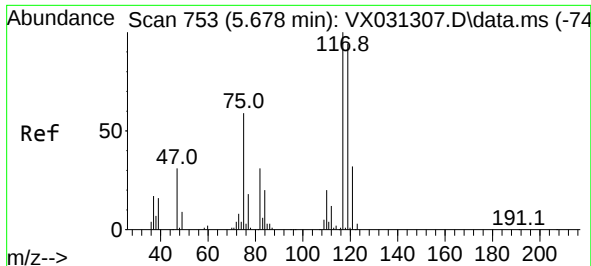
Ion Ratio Lower Upper

75 100

110 7.7 17.5 52.5#

77 0.0 24.9 37.3#

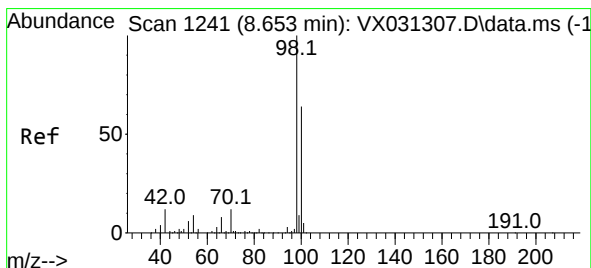
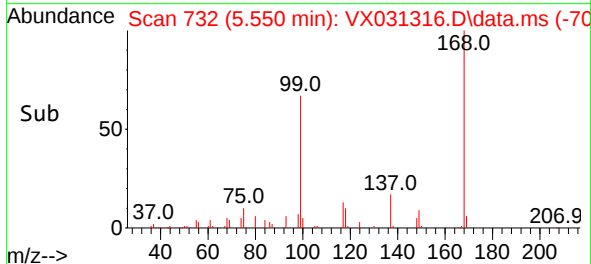
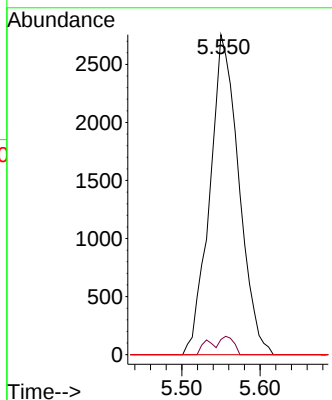
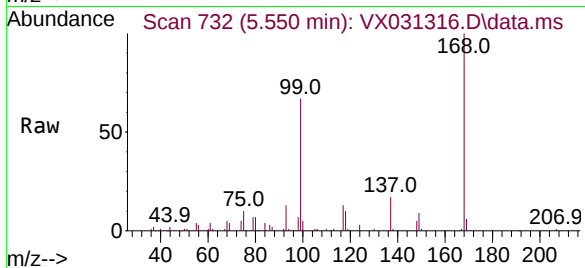




#38
Carbon Tetrachloride
Concen: 3.796 ug/l
RT: 5.550 min Scan# 7110
Delta R.T. -0.128 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

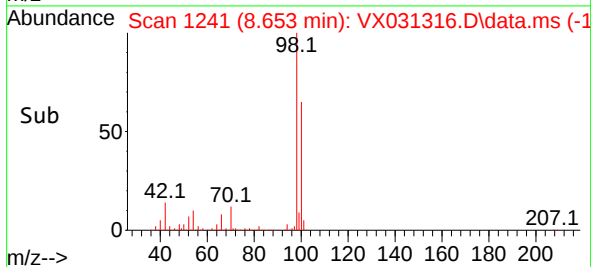
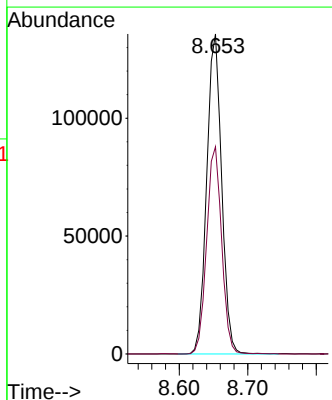
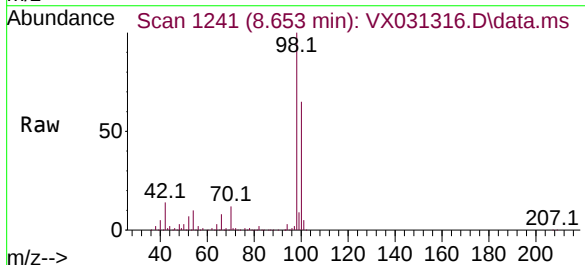
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

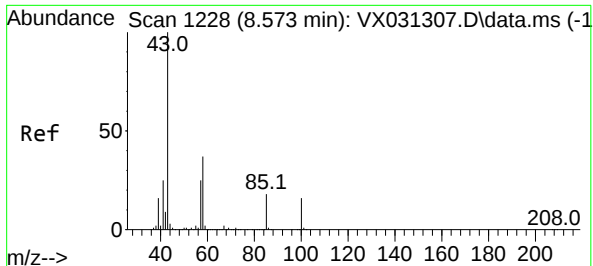
Tgt Ion:117 Resp: 7110
Ion Ratio Lower Upper
117 100
119 4.8 74.6 112.0#
121 0.0 25.3 37.9#



#50
Toluene-d8
Concen: 43.528 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 98 Resp: 205537
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 0.504 ug/l

RT: 8.580 min Scan# 1184

Delta R.T. 0.006 min

Lab File: VX031316.D

Acq: 14 Sep 2022 19:27

Instrument :

MSVOA_X

ClientSampleId :

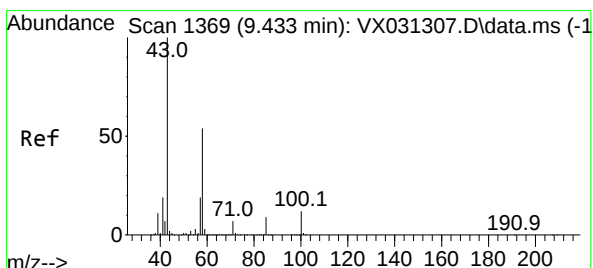
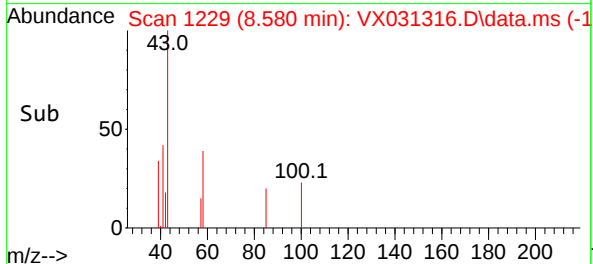
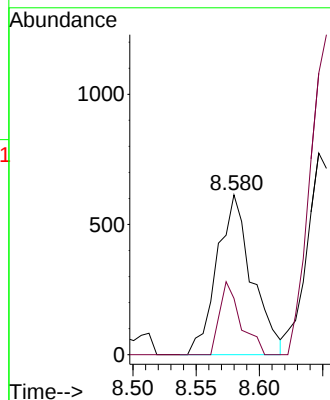
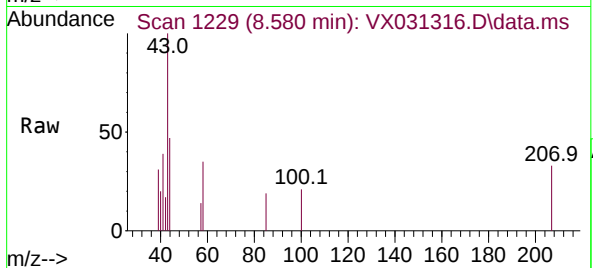
AUD-1666

Tgt Ion: 43 Resp: 1184

Ion Ratio Lower Upper

43 100

58 27.2 30.6 46.0#



#59

2-Hexanone

Concen: 0.307 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX031316.D

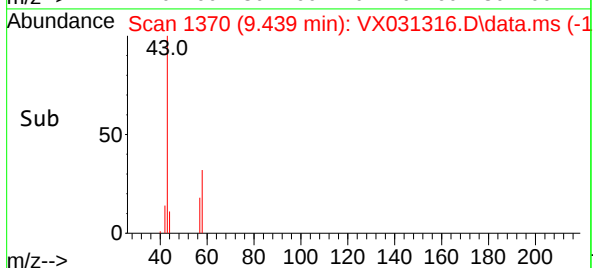
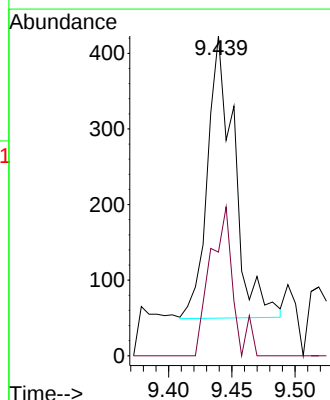
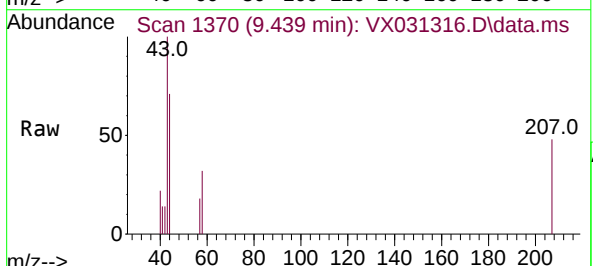
Acq: 14 Sep 2022 19:27

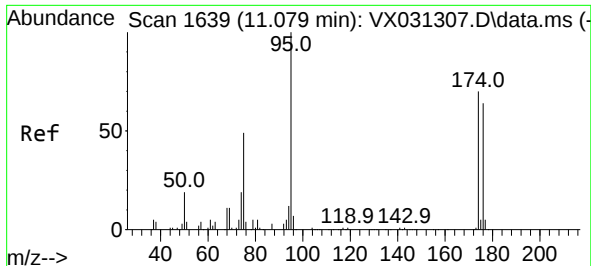
Tgt Ion: 43 Resp: 550

Ion Ratio Lower Upper

43 100

58 44.5 26.7 80.0

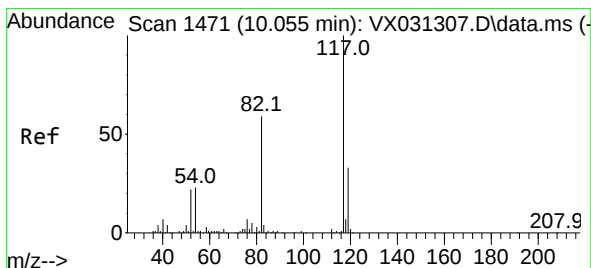
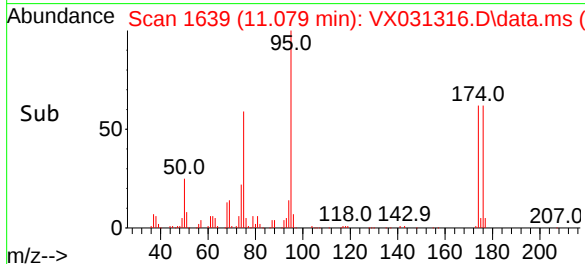
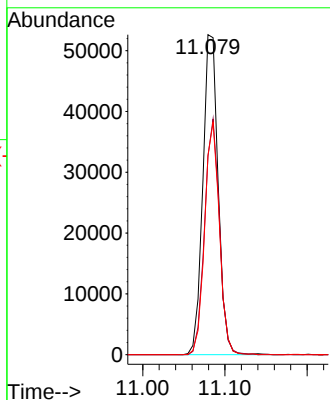
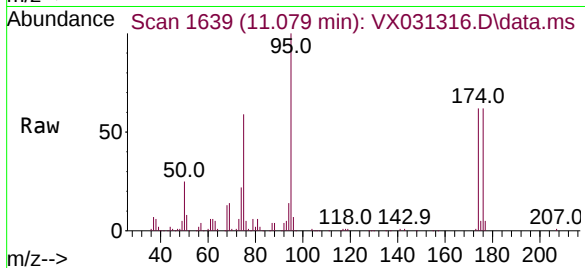




#62
4-Bromofluorobenzene
Concen: 39.445 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

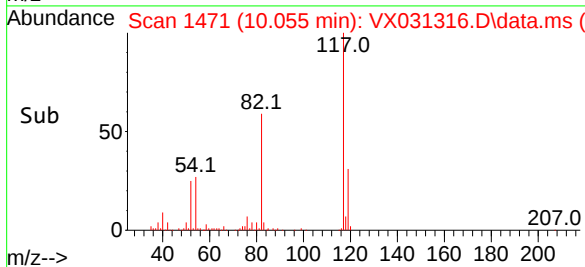
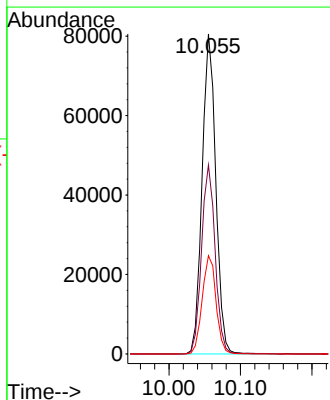
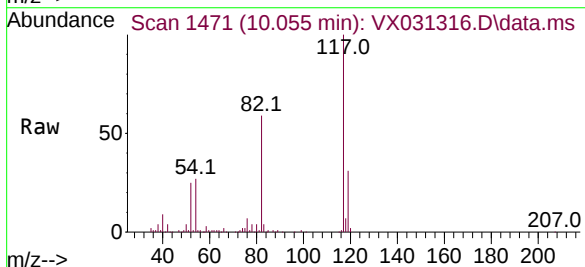
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

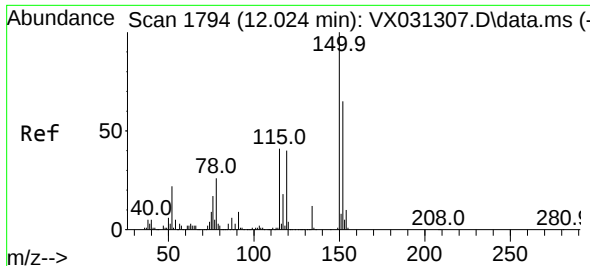
Tgt Ion: 95 Resp: 68206
Ion Ratio Lower Upper
95 100
174 71.1 0.0 153.2
176 69.7 0.0 144.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 117 Resp: 106901
Ion Ratio Lower Upper
117 100
82 59.0 46.8 70.2
119 30.7 26.4 39.6

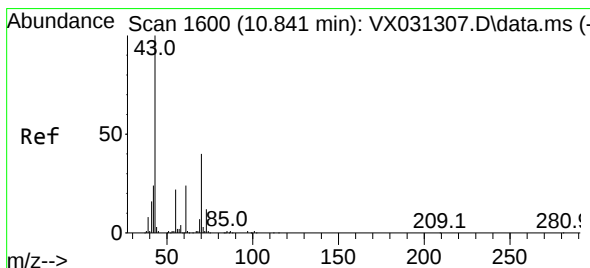
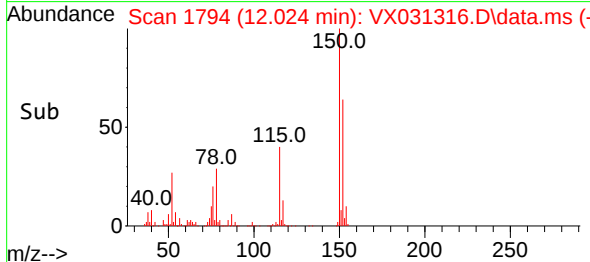
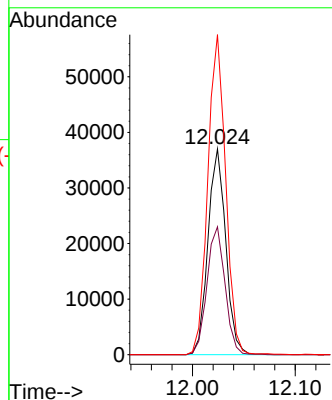
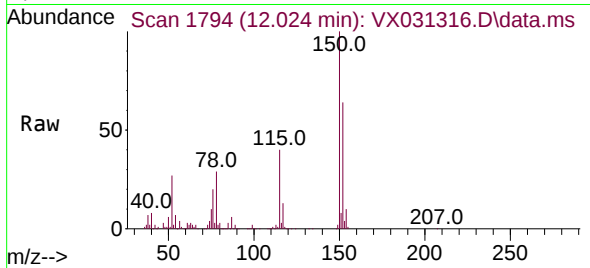




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

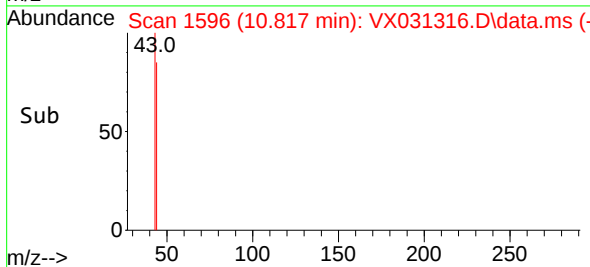
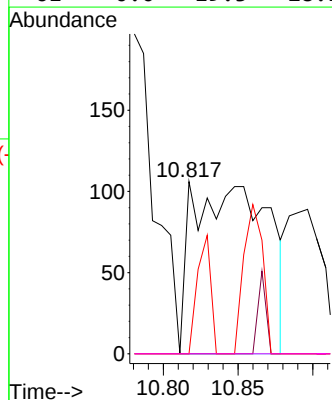
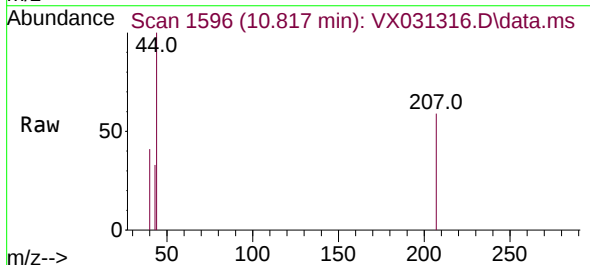
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

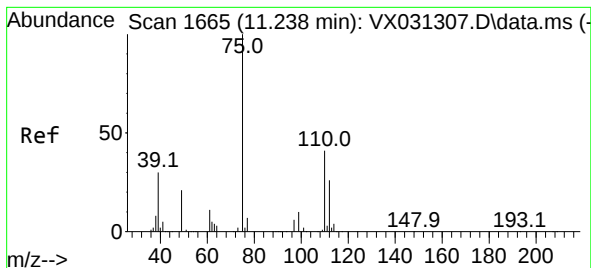
Tgt Ion:152 Resp: 44703
Ion Ratio Lower Upper
152 100
115 63.1 43.4 130.1
150 155.9 0.0 346.8



#74
N-ethyl acetate
Concen: 0.222 ug/l
RT: 10.817 min Scan# 1596
Delta R.T. -0.024 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 43 Resp: 364
Ion Ratio Lower Upper
43 100
70 0.0 33.4 50.2#
55 12.6 18.2 27.2#
61 0.0 19.3 28.9#

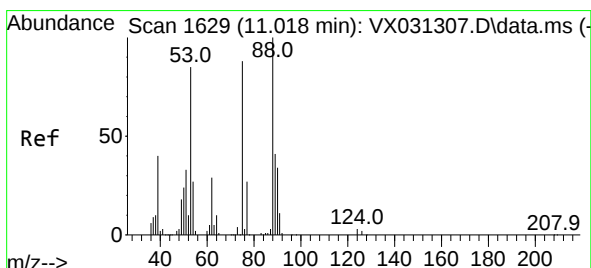
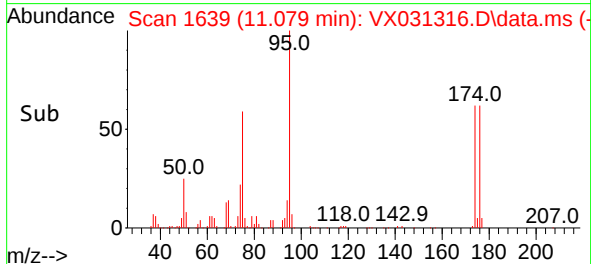
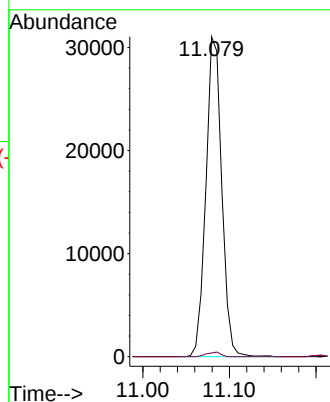
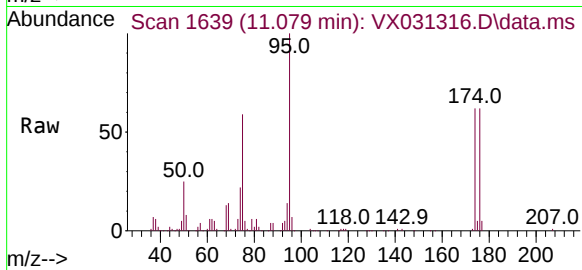




#76
1,2,3-Trichloropropane
Concen: 35.010 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

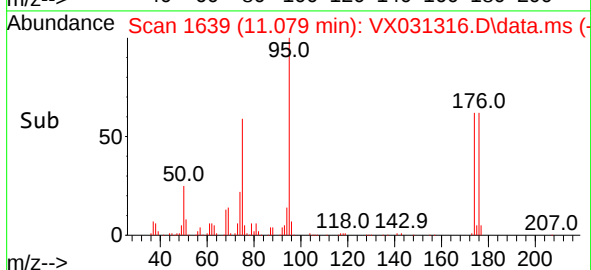
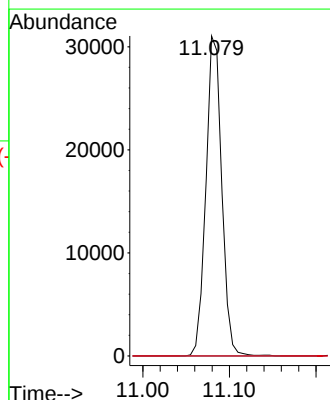
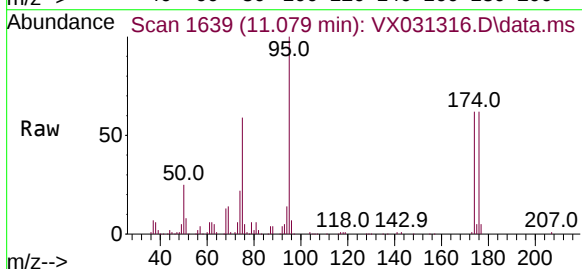
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

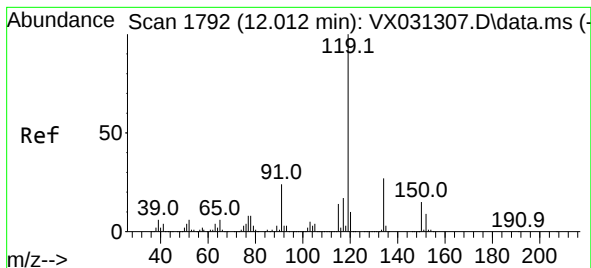
Tgt Ion: 75 Resp: 39440
Ion Ratio Lower Upper
75 100
77 1.3 20.3 60.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 96.875 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion: 75 Resp: 39440
Ion Ratio Lower Upper
75 100
53 0.0 77.6 116.4#
89 0.0 37.4 56.0#





#86

p-Isopropyltoluene

Concen: 0.229 ug/l

RT: 12.012 min Scan# 119

Delta R.T. 0.000 min

Lab File: VX031316.D

Acq: 14 Sep 2022 19:27

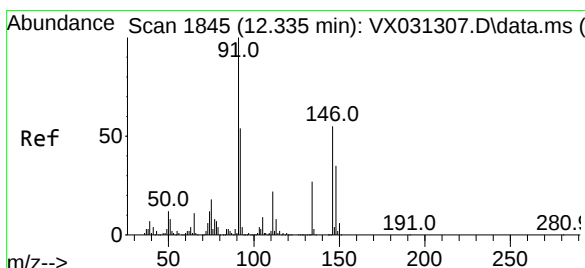
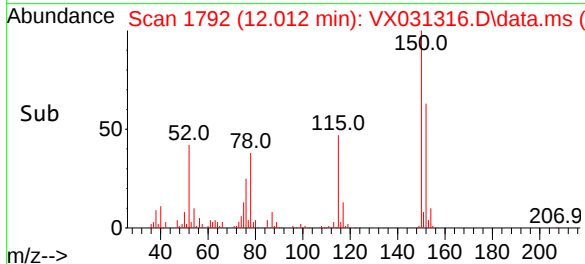
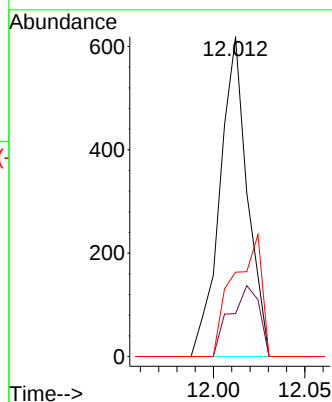
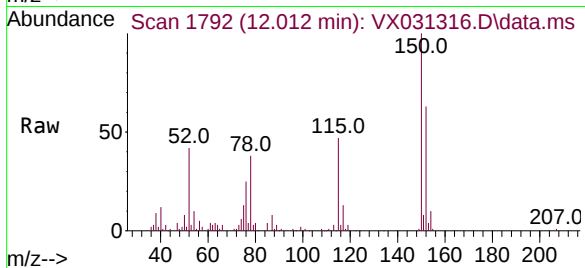
Instrument :

MSVOA_X

ClientSampleId :

AUD-1666

Tgt Ion:	119	Resp:	648
Ion	Ratio	Lower	Upper
119	100		
134	23.3	13.4	40.2
91	39.2	12.4	37.2#



#89

n-Butylbenzene

Concen: 0.258 ug/l

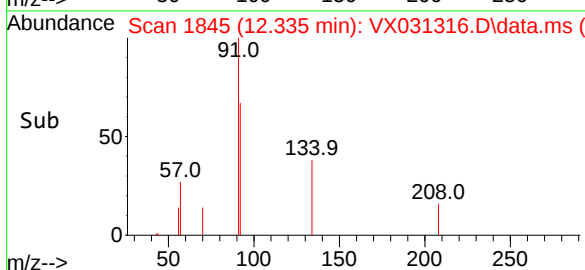
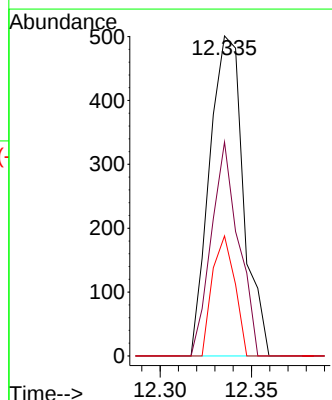
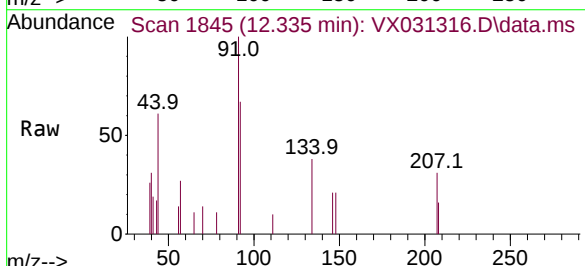
RT: 12.335 min Scan# 1845

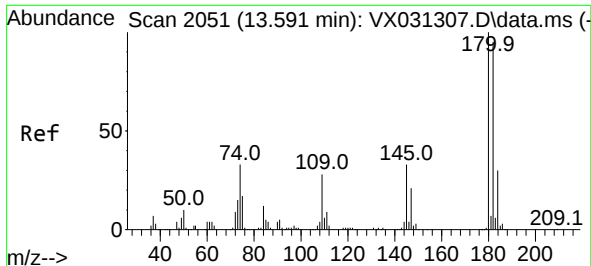
Delta R.T. 0.000 min

Lab File: VX031316.D

Acq: 14 Sep 2022 19:27

Tgt Ion:	91	Resp:	645
Ion	Ratio	Lower	Upper
91	100		
92	53.8	27.0	81.0
134	24.8	13.3	39.9

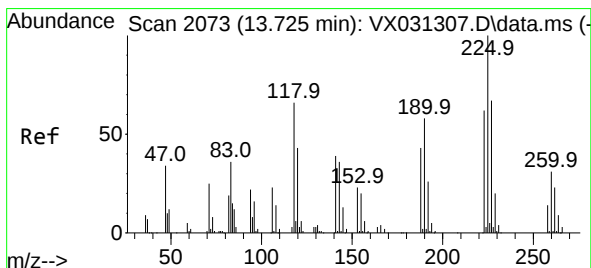
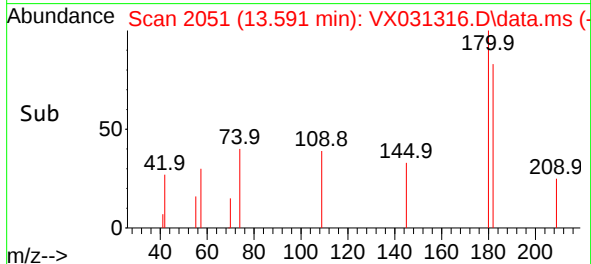
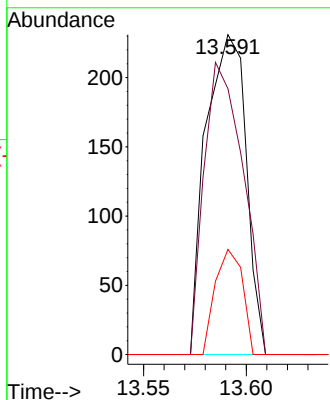
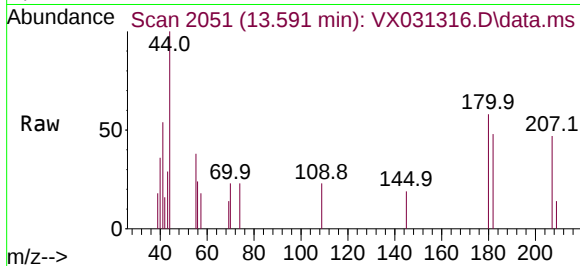




#93
1,2,4-Trichlorobenzene
Concen: 0.397 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.000 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

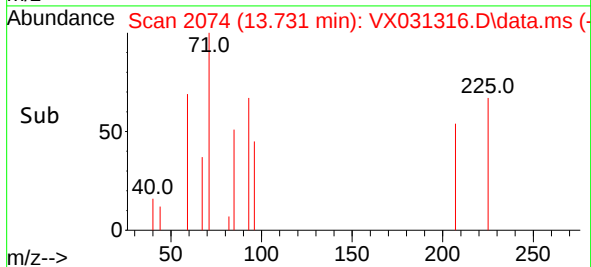
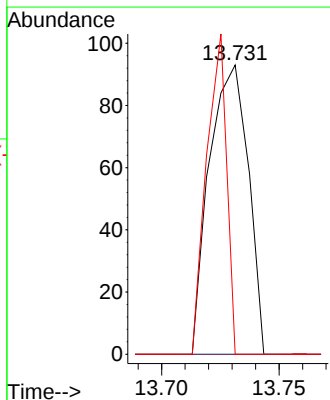
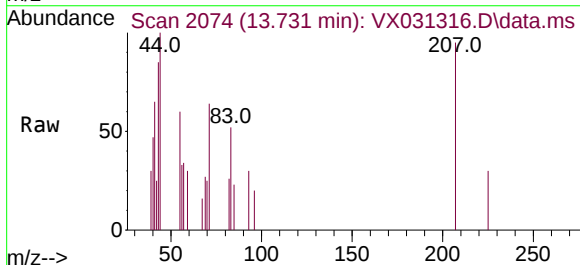
Instrument :
MSVOA_X
ClientSampleId :
AUD-1666

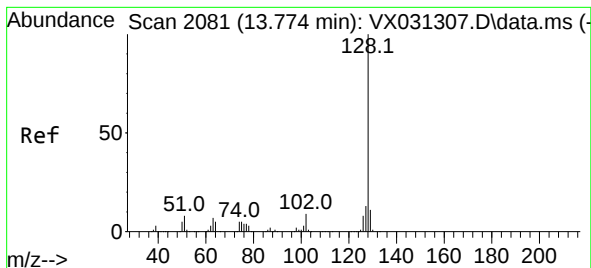
Tgt Ion:180 Resp: 314
Ion Ratio Lower Upper
180 100
182 89.2 46.9 140.6
145 22.3 16.7 50.1



#94
Hexachlorobutadiene
Concen: 0.346 ug/l
RT: 13.731 min Scan# 2074
Delta R.T. 0.006 min
Lab File: VX031316.D
Acq: 14 Sep 2022 19:27

Tgt Ion:225 Resp: 107
Ion Ratio Lower Upper
225 100
223 0.0 30.8 92.4#
227 57.0 32.3 96.9





#95

Naphthalene

Concen: 0.270 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX031316.D

Acq: 14 Sep 2022 19:27

Instrument :

MSVOA_X

ClientSampleId :

AUD-1666

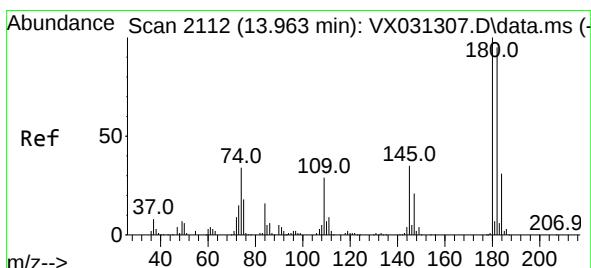
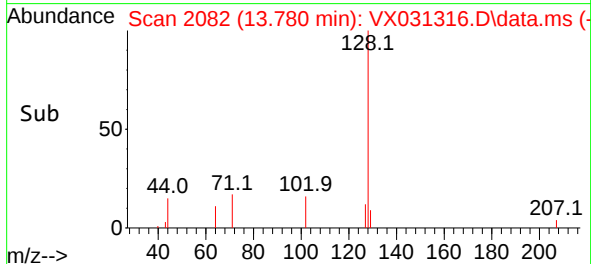
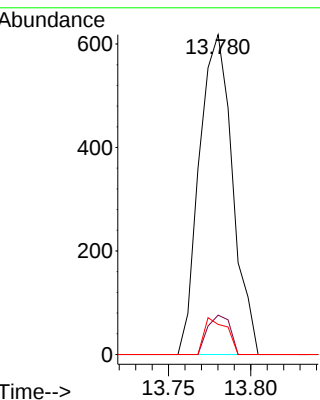
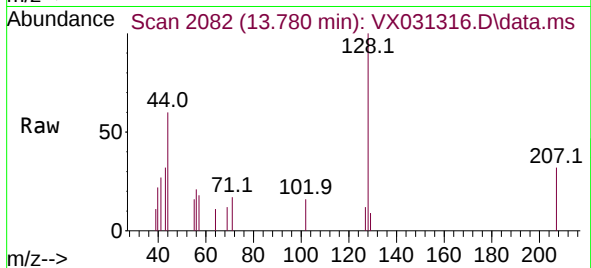
Tgt Ion:128 Resp: 869

Ion Ratio Lower Upper

128 100

127 8.3 10.4 15.6#

129 7.7 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 0.257 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX031316.D

Acq: 14 Sep 2022 19:27

Tgt Ion:180 Resp: 218

Ion Ratio Lower Upper

180 100

182 117.4 47.9 143.8

145 35.8 17.6 52.8

