

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072122\
 Data File : VX030150.D
 Acq On : 20 Jul 2022 22:41
 Operator : JC/MD
 Sample : N3781-01 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ORA-0037

Quant Time: Jul 21 03:34:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X071222W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 13 09:05:23 2022
 Response via : Initial Calibration

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

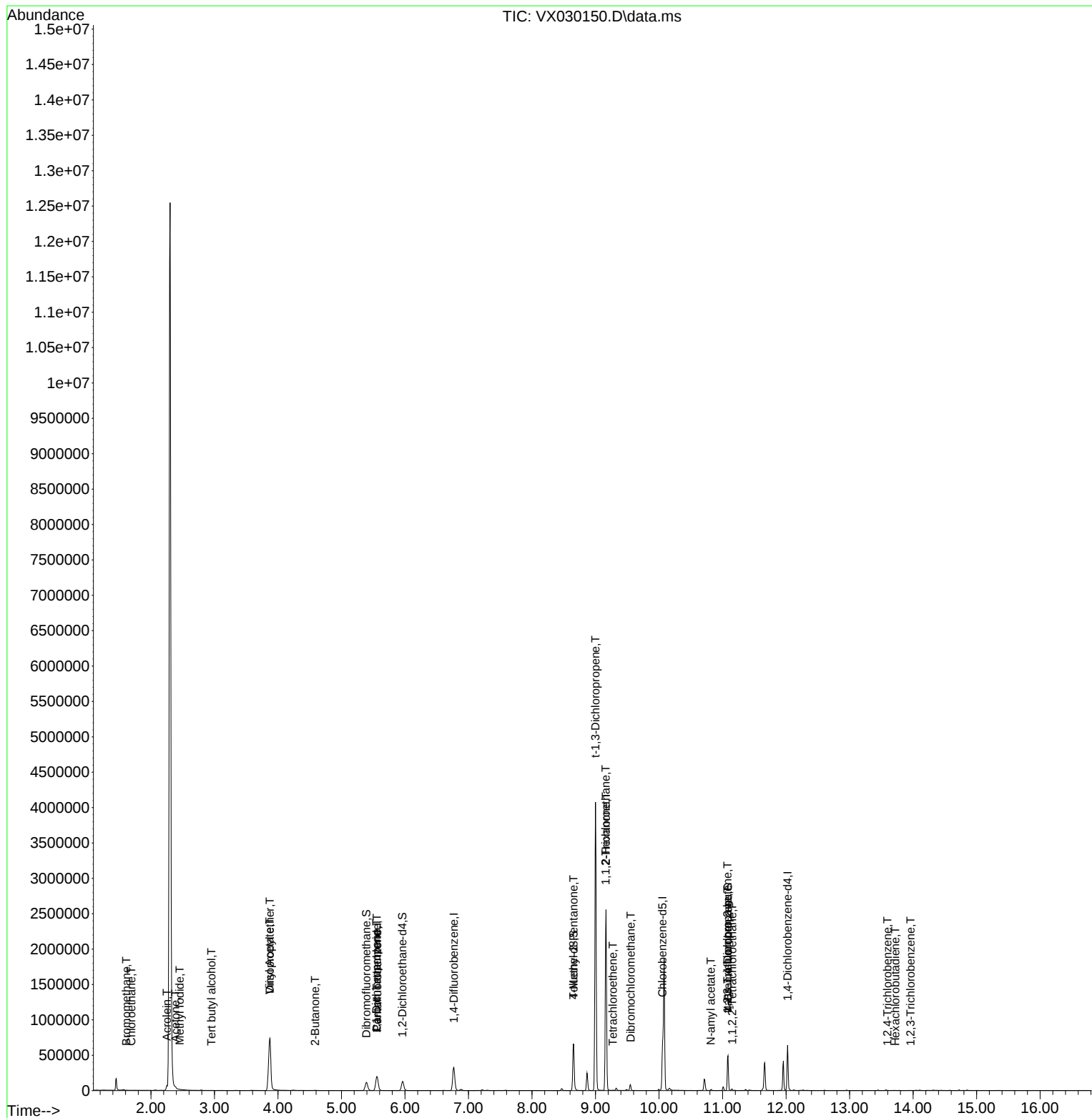
Internal Standards						
1) Pentafluorobenzene	5.562	168	191254	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	341845	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	294721	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	125528	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	120556	51.787	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	103.580%
35) Dibromofluoromethane	5.391	113	103226	47.268	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.540%
50) Toluene-d8	8.653	98	393466	47.906	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.820%
62) 4-Bromofluorobenzene	11.085	95	133347	46.784	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.560%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	77	Below Cal	#	42
5) Bromomethane	1.611	94	349	0.371	ug/l	81
6) Chloroethane	1.691	64	284	0.228	ug/l	# 41
10) Methyl Iodide	2.453	142	873	2.842	ug/l	90
11) Tert butyl alcohol	2.953	59	1291	2.149	ug/l	99
13) Acrolein	2.252	56	63057	526.971	ug/l	87
16) Acetone	2.386	43	16065	14.645	ug/l	# 1
17) Carbon Disulfide	2.508	76	1523	Below Cal	#	89
20) Methylene Chloride	2.794	84	2503	Below Cal	#	92
22) Diisopropyl ether	3.873	45	50317	7.549	ug/l	# 1
23) Vinyl Acetate	3.867	43	121181	21.476	ug/l	# 72
25) 2-Butanone	4.586	43	3499	1.873	ug/l	# 73
36) 1,1-Dichloropropene	5.550	75	14780	5.240	ug/l	# 48
38) Carbon Tetrachloride	5.556	117	18851	7.166	ug/l	# 18
51) 4-Methyl-2-Pentanone	8.653	43	2412	0.669	ug/l	# 1
53) t-1,3-Dichloropropene	9.000	75	6802	2.272	ug/l	# 45
55) 1,1,2-Trichloroethane	9.159	97	1074	0.462	ug/l	# 1
59) 2-Hexanone	9.165	43	132135	47.773	ug/l	100
60) Dibromochloromethane	9.555	129	1197	0.528	ug/l	# 11
64) Tetrachloroethene	9.275	164	604	0.255	ug/l	# 70
74) N-amyl acetate	10.817	43	982	0.256	ug/l	# 46
75) 1,1,2,2-Tetrachloroethane	11.152	83	1096	0.348	ug/l	# 55
76) 1,2,3-Trichloropropane	11.079	75	65724	22.772	ug/l	# 38
81) trans-1,4-Dichloro-2-b...	11.079	75	65724	65.720	ug/l	# 13
93) 1,2,4-Trichlorobenzene	13.597	180	645	0.256	ug/l	90
94) Hexachlorobutadiene	13.719	225	246	0.244	ug/l	78
96) 1,2,3-Trichlorobenzene	13.963	180	593	0.231	ug/l	# 77

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

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QLast Update : Wed Jul 13 09:05:23 2022
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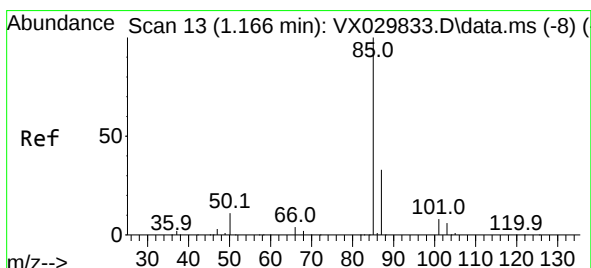
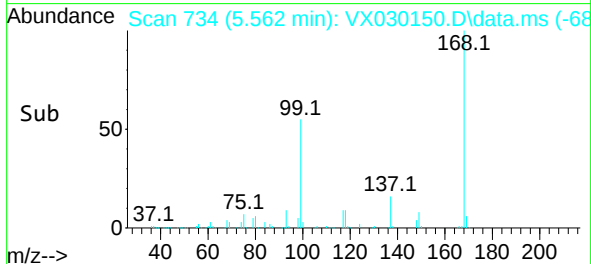
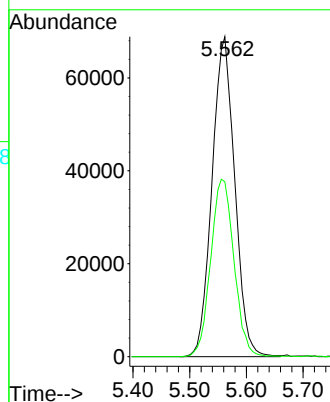
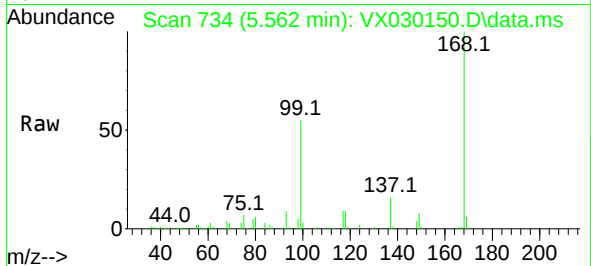




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

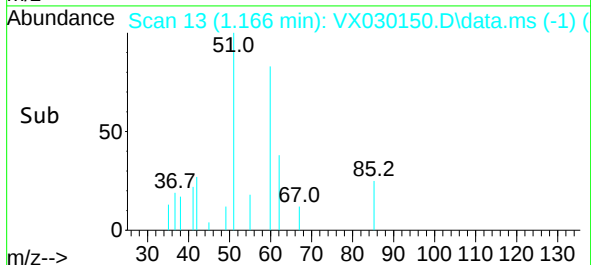
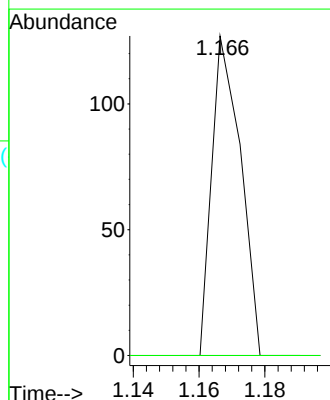
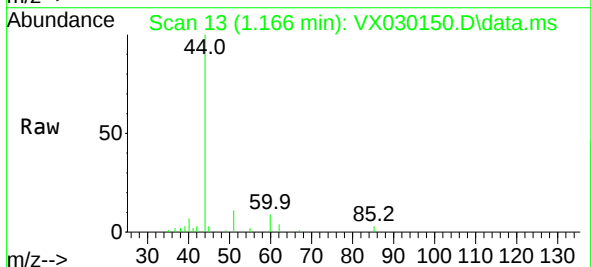
Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

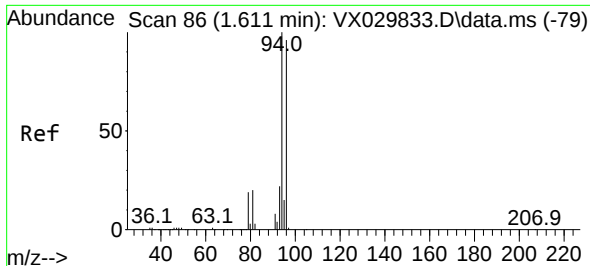
Tgt Ion:168 Resp: 191254
Ion Ratio Lower Upper
168 100
99 54.6 44.0 66.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion: 85 Resp: 77
Ion Ratio Lower Upper
85 100
87 0.0 16.5 49.5#

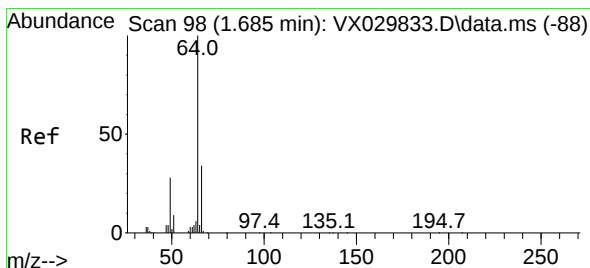
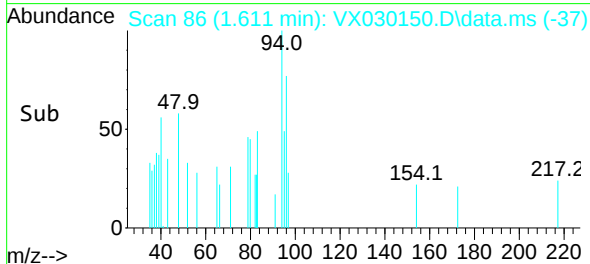
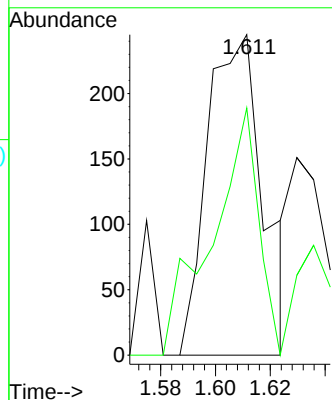
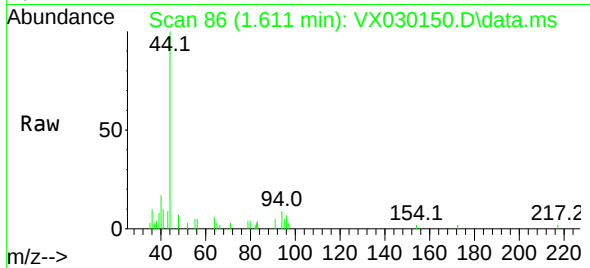




#5
Bromomethane
Concen: 0.371 ug/l
RT: 1.611 min Scan# 80
Delta R.T. 0.000 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

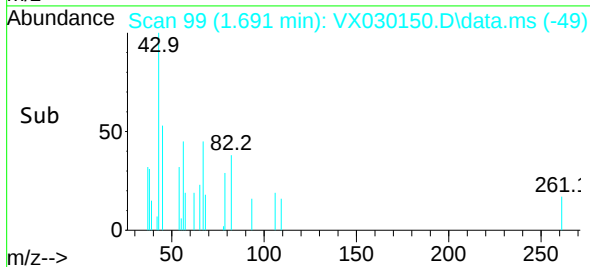
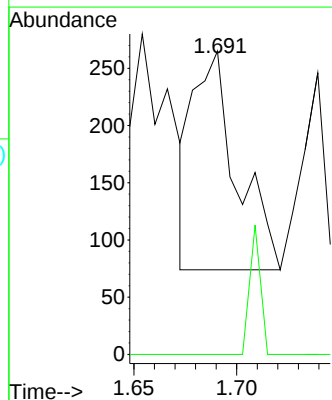
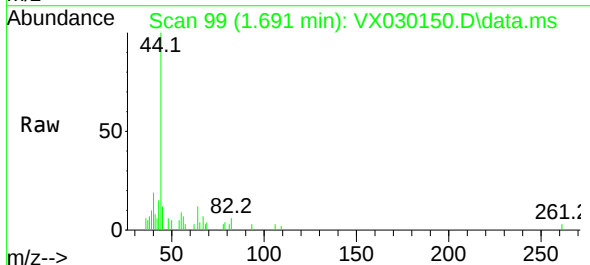
Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

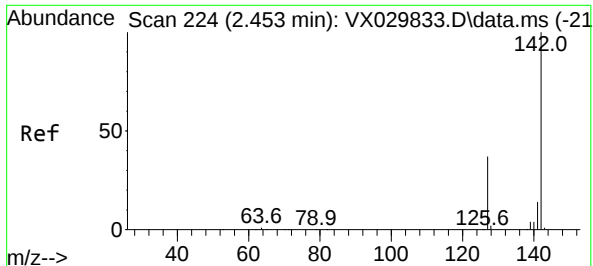
Tgt Ion: 94 Resp: 349
Ion Ratio Lower Upper
94 100
96 77.1 76.9 115.3



#6
Chloroethane
Concen: 0.228 ug/l
RT: 1.691 min Scan# 99
Delta R.T. 0.006 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion: 64 Resp: 284
Ion Ratio Lower Upper
64 100
66 0.0 27.2 40.8#

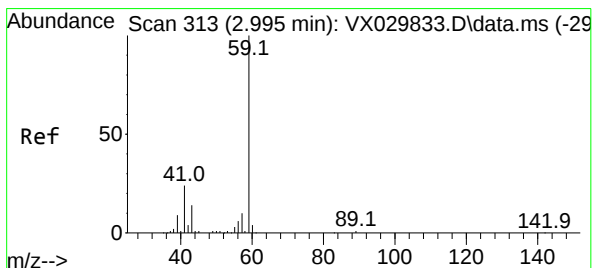
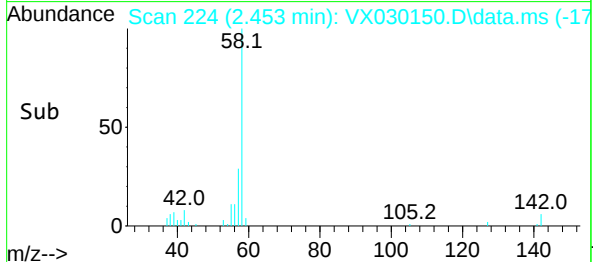
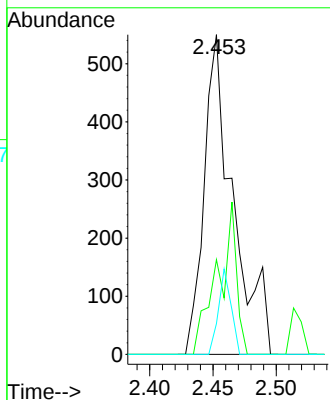
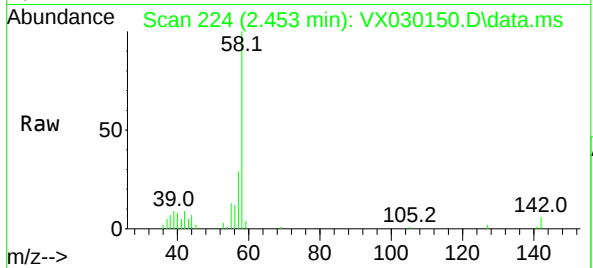




#10
Methyl Iodide
Concen: 2.842 ug/l
RT: 2.453 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

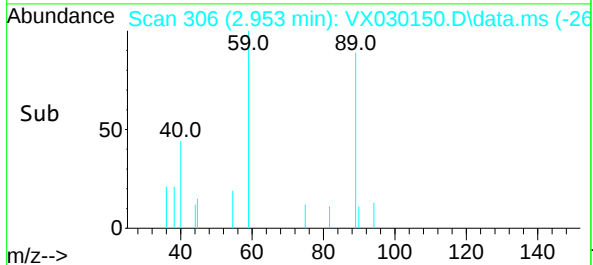
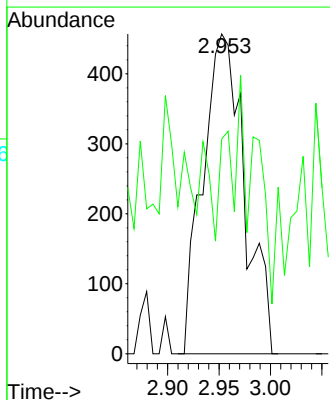
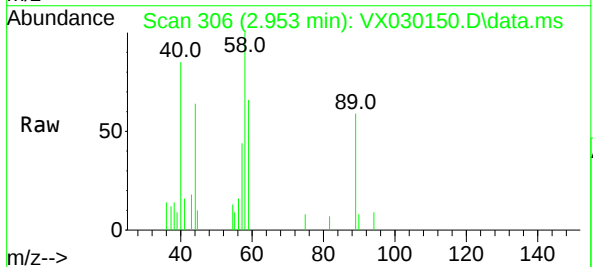
Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

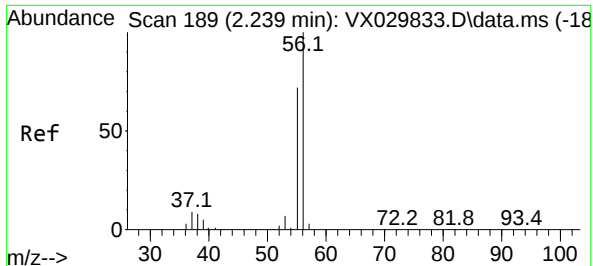
Tgt Ion:142 Resp: 873
Ion Ratio Lower Upper
142 100
127 31.2 30.2 45.2
141 11.6 11.3 16.9



#11
Tert butyl alcohol
Concen: 2.149 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.042 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion: 59 Resp: 1291
Ion Ratio Lower Upper
59 100
57 9.8 7.4 11.2

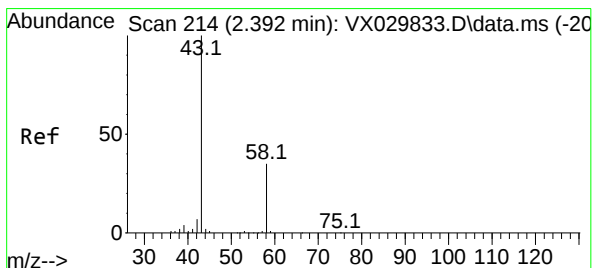
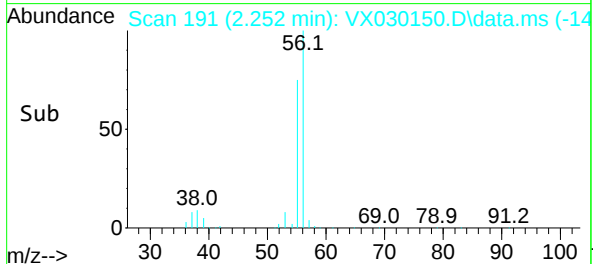
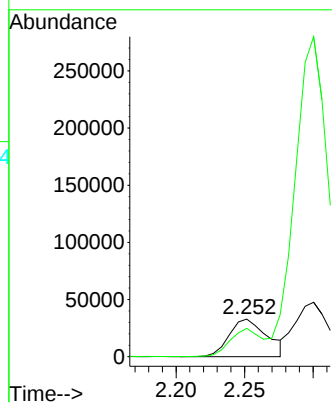
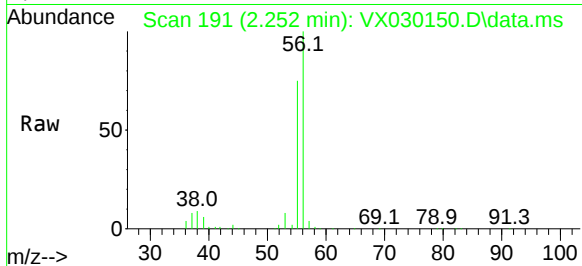




#13
Acrolein
Concen: 526.971 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.013 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

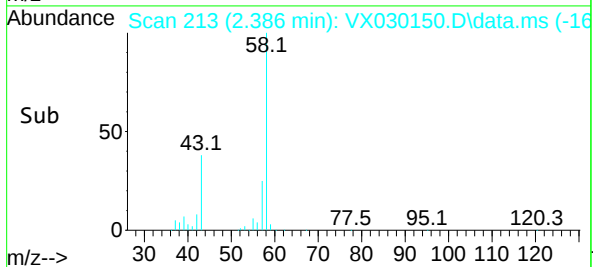
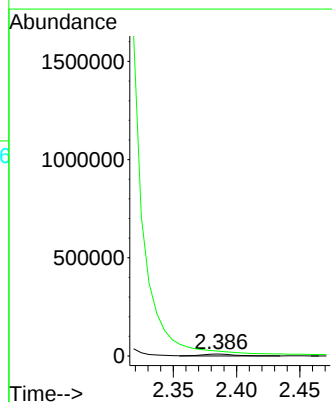
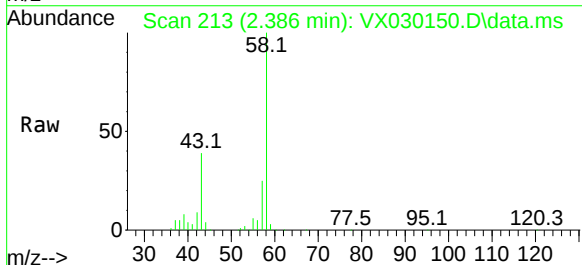
Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

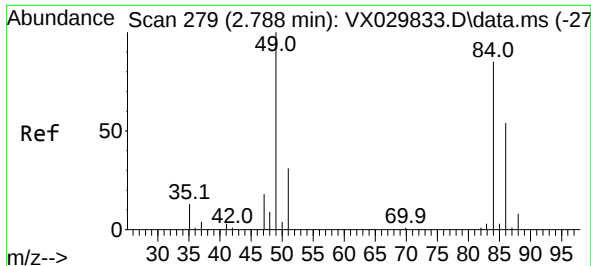
Tgt Ion: 56 Resp: 63057
Ion Ratio Lower Upper
56 100
55 59.8 56.6 84.8



#16
Acetone
Concen: 14.645 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion: 43 Resp: 16065
Ion Ratio Lower Upper
43 100
58 152.6 27.7 41.5#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX030150.D

Acq: 20 Jul 2022 22:41

Instrument :

MSVOA_X

ClientSampleId :

ORA-0037

Tgt Ion: 84 Resp: 2503

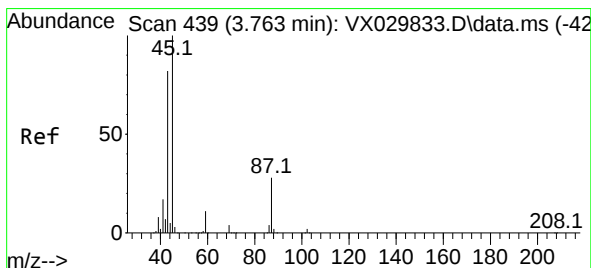
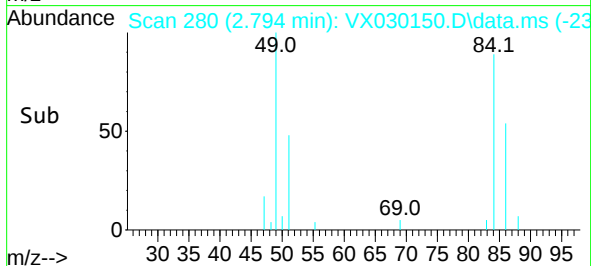
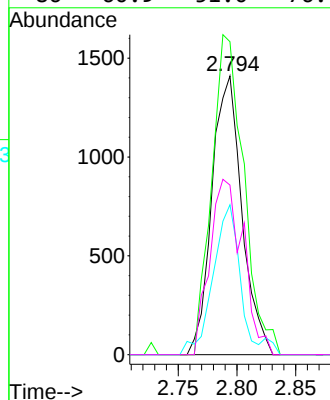
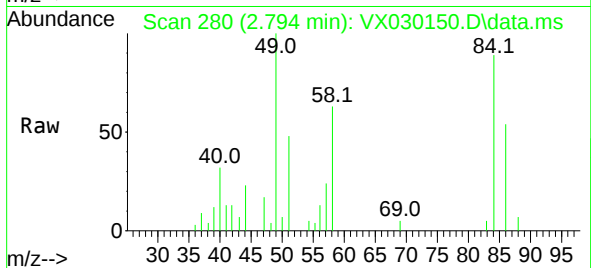
Ion Ratio Lower Upper

84 100

49 112.3 93.8 140.6

51 53.8 29.4 44.0#

86 60.9 51.0 76.4



#22

Diisopropyl ether

Concen: 7.549 ug/l

RT: 3.873 min Scan# 457

Delta R.T. 0.110 min

Lab File: VX030150.D

Acq: 20 Jul 2022 22:41

Tgt Ion: 45 Resp: 50317

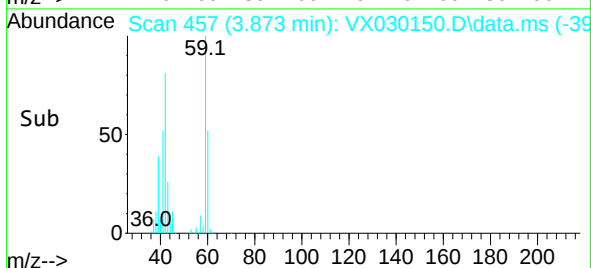
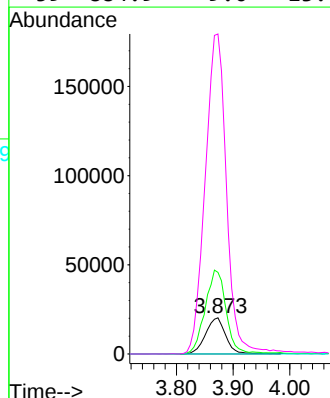
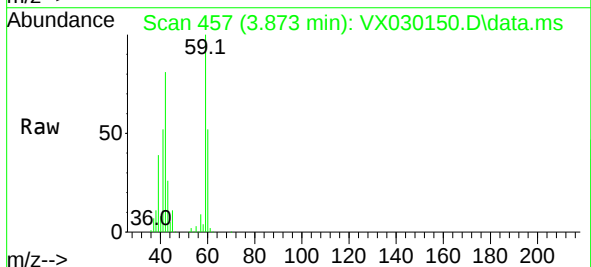
Ion Ratio Lower Upper

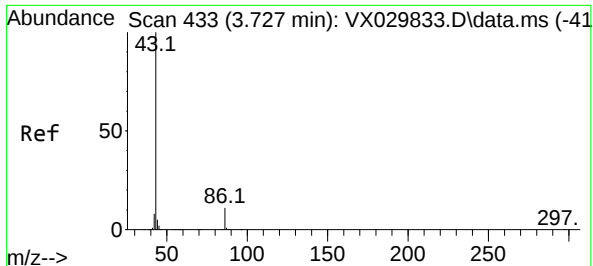
45 100

43 225.3 65.4 98.0#

87 0.0 22.3 33.5#

59 884.9 9.0 13.4#

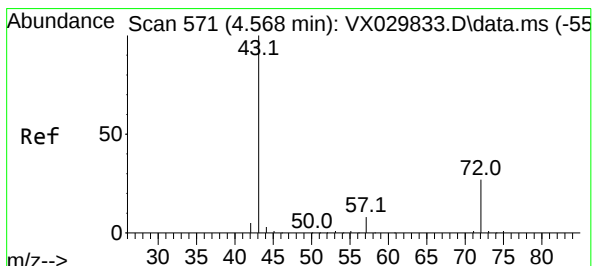
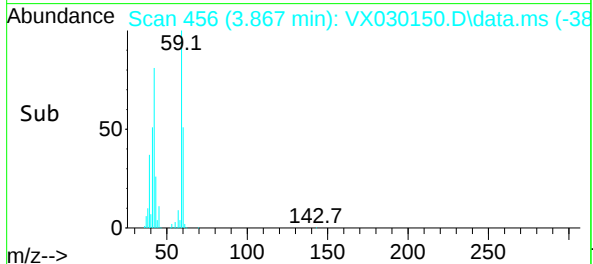
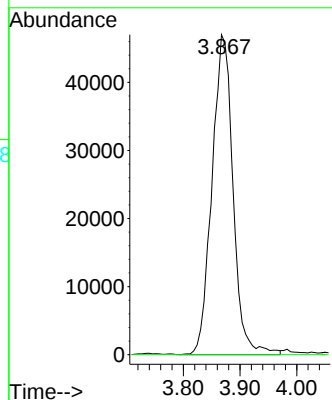
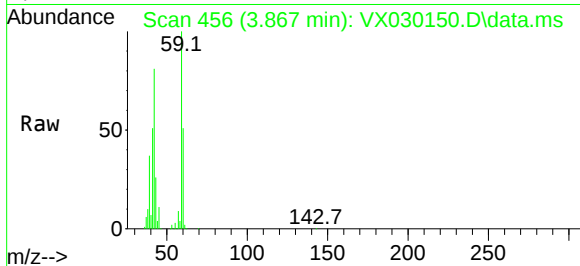




#23
 Vinyl Acetate
 Concen: 21.476 ug/l
 RT: 3.867 min Scan# 41
 Delta R.T. 0.140 min
 Lab File: VX030150.D
 Acq: 20 Jul 2022 22:41

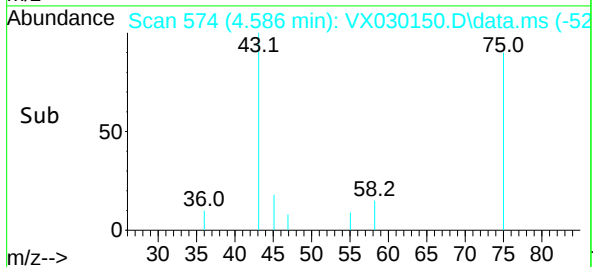
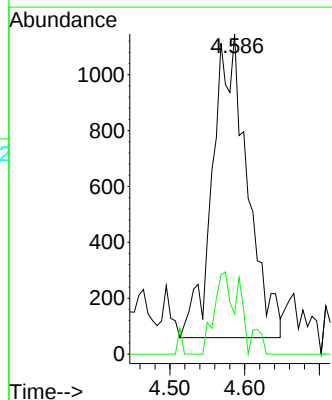
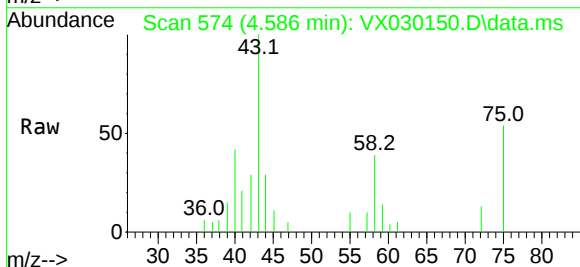
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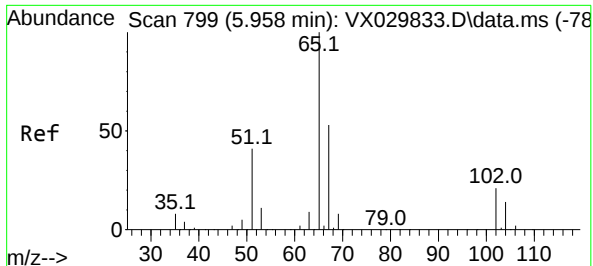
Tgt Ion: 43 Resp: 121181
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.5 12.7#



#25
 2-Butanone
 Concen: 1.873 ug/l
 RT: 4.586 min Scan# 574
 Delta R.T. 0.018 min
 Lab File: VX030150.D
 Acq: 20 Jul 2022 22:41

Tgt Ion: 43 Resp: 3499
 Ion Ratio Lower Upper
 43 100
 72 13.2 21.7 32.5#





#33

1,2-Dichloroethane-d4

Concen: 51.787 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX030150.D

Acq: 20 Jul 2022 22:41

Instrument :

MSVOA_X

ClientSampleId :

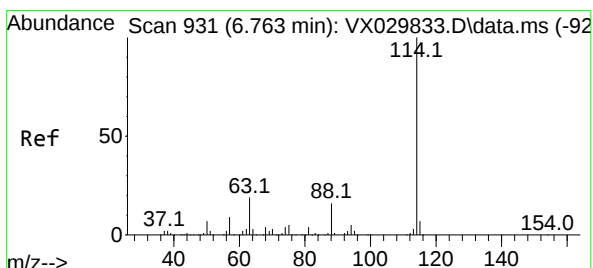
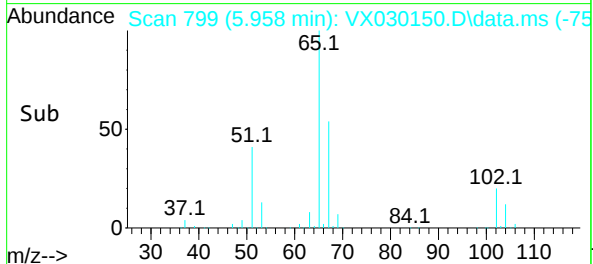
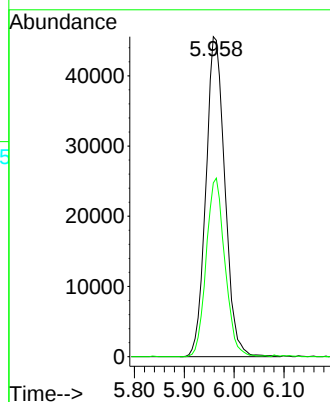
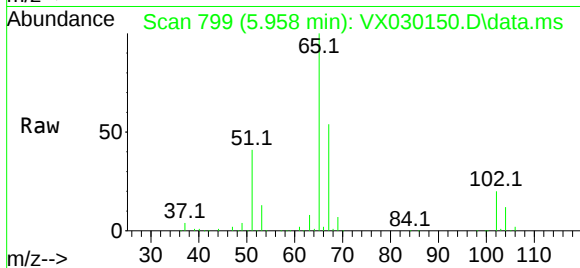
ORA-0037

Tgt Ion: 65 Resp: 120556

Ion Ratio Lower Upper

65 100

67 55.0 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.006 min

Lab File: VX030150.D

Acq: 20 Jul 2022 22:41

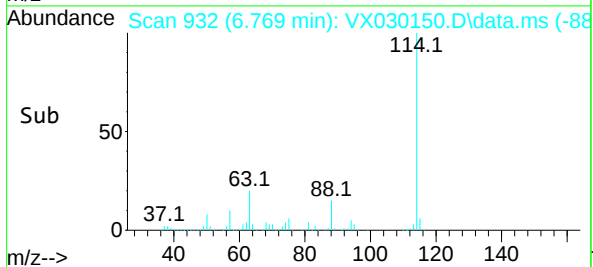
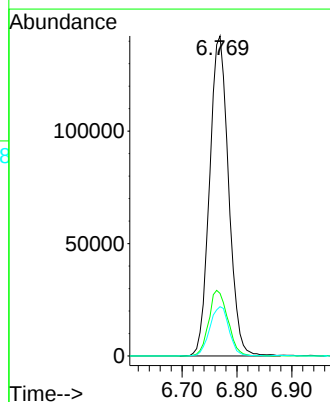
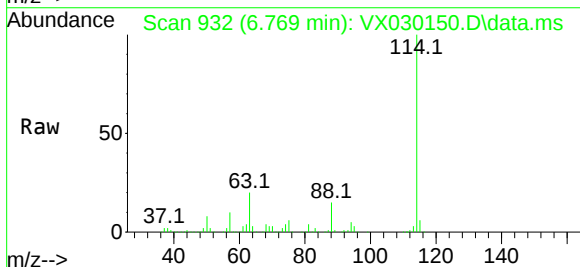
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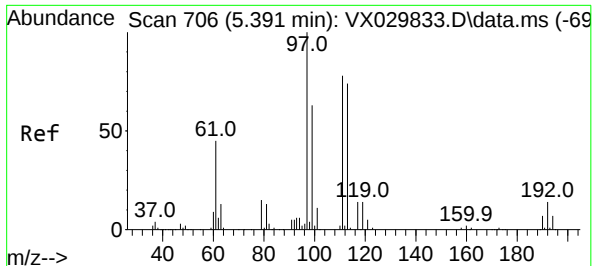
Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.4

88 15.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.268 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX030150.D

Acq: 20 Jul 2022 22:41

Instrument :

MSVOA_X

ClientSampleId :

ORA-0037

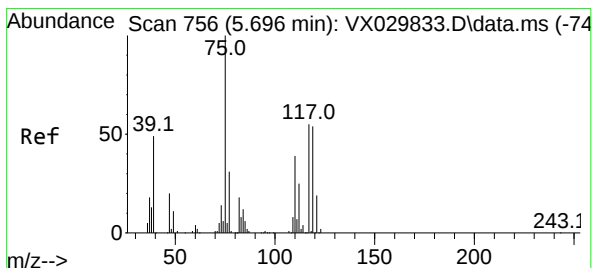
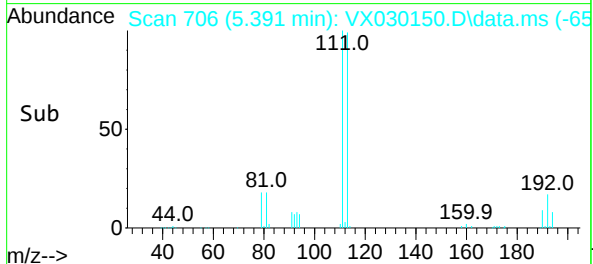
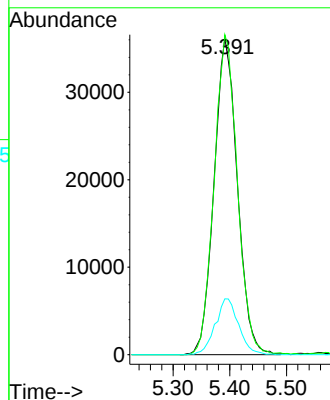
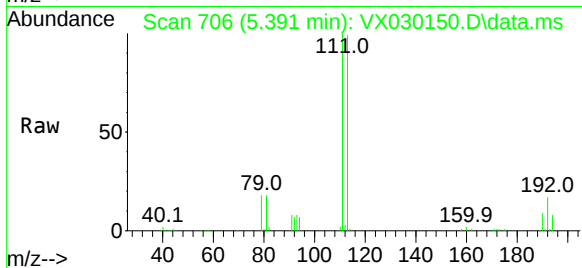
Tgt Ion:113 Resp: 103226

Ion Ratio Lower Upper

113 100

111 100.9 83.2 124.8

192 17.8 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.240 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX030150.D

Acq: 20 Jul 2022 22:41

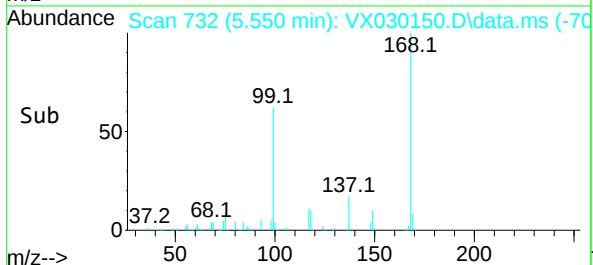
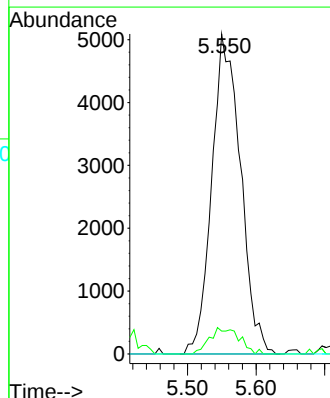
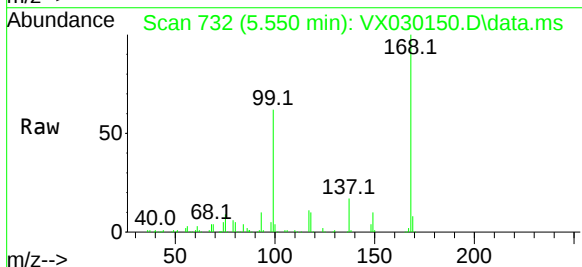
Tgt Ion: 75 Resp: 14780

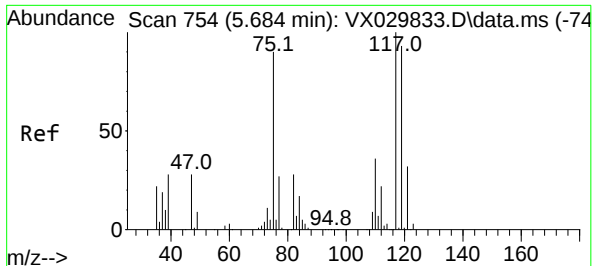
Ion Ratio Lower Upper

75 100

110 8.5 19.3 57.9#

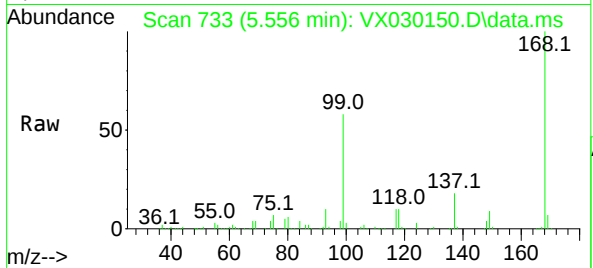
77 0.0 24.4 36.6#



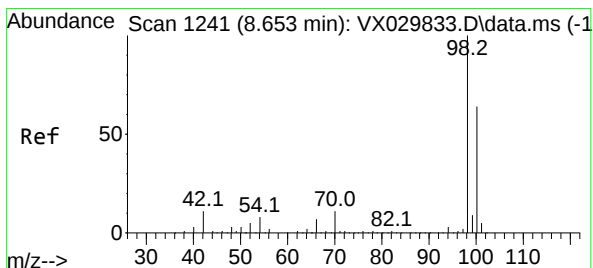
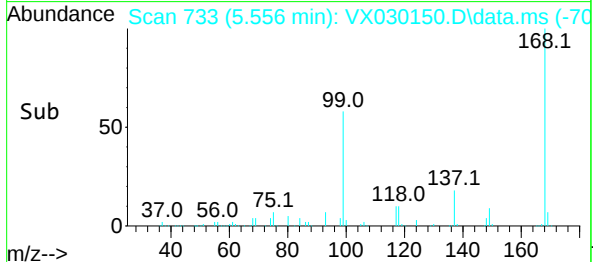
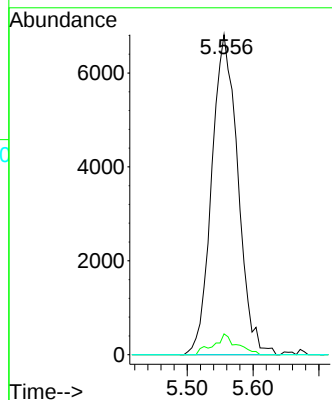


#38
Carbon Tetrachloride
Concen: 7.166 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

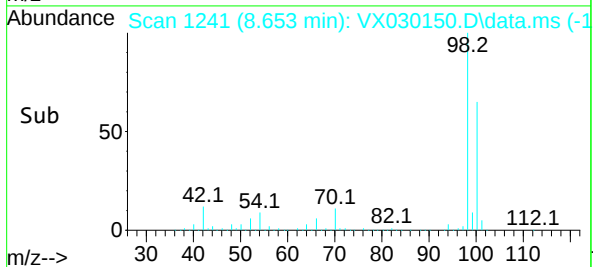
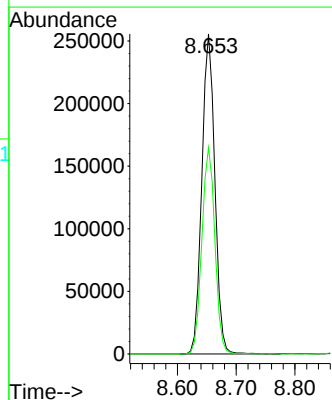
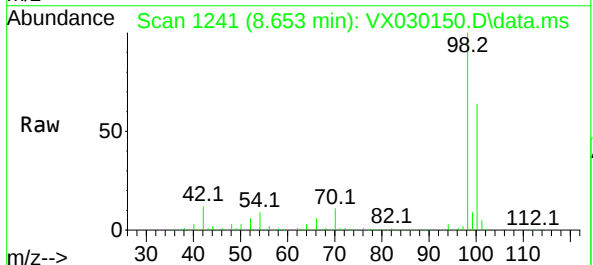


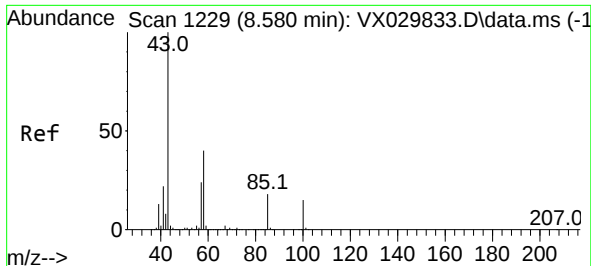
Tgt Ion:117 Resp: 18851
Ion Ratio Lower Upper
117 100
119 6.5 74.1 111.1#
121 0.0 25.8 38.8#



#50
Toluene-d8
Concen: 47.906 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion: 98 Resp: 393466
Ion Ratio Lower Upper
98 100
100 64.7 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 0.669 ug/l

RT: 8.653 min Scan# 11

Delta R.T. 0.073 min

Lab File: VX030150.D

Acq: 20 Jul 2022 22:41

Instrument :

MSVOA_X

ClientSampleId :

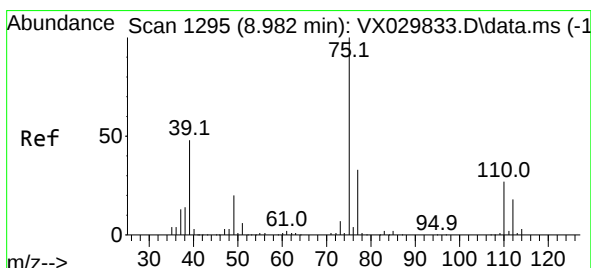
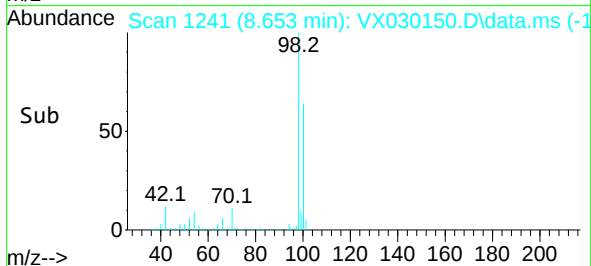
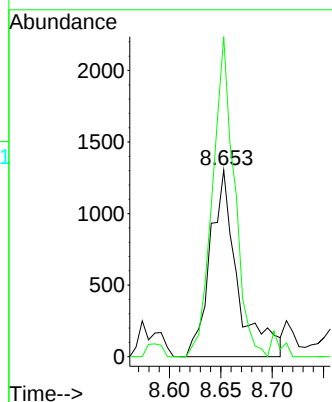
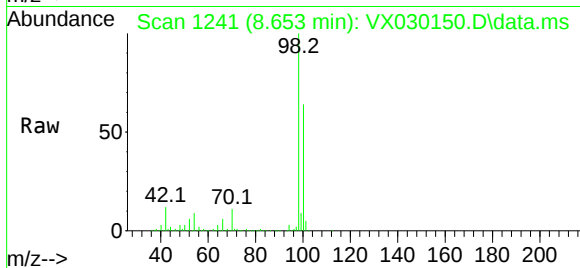
ORA-0037

Tgt Ion: 43 Resp: 2412

Ion Ratio Lower Upper

43 100

58 137.2 31.4 47.2#



#53

t-1,3-Dichloropropene

Concen: 2.272 ug/l

RT: 9.000 min Scan# 1298

Delta R.T. 0.018 min

Lab File: VX030150.D

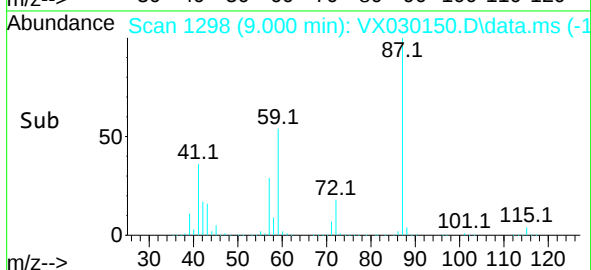
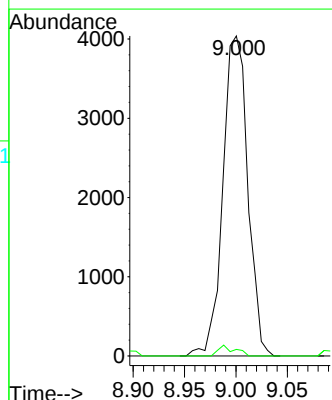
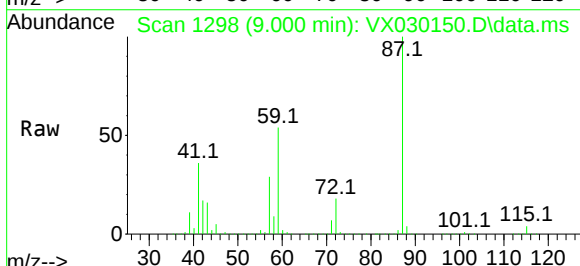
Acq: 20 Jul 2022 22:41

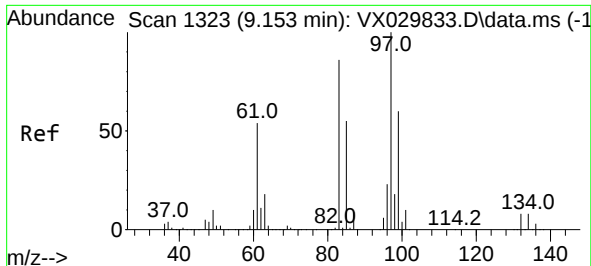
Tgt Ion: 75 Resp: 6802

Ion Ratio Lower Upper

75 100

77 2.1 26.3 39.5#





#55

1,1,2-Trichloroethane

Concen: 0.462 ug/l

RT: 9.159 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX030150.D

Acq: 20 Jul 2022 22:41

Instrument :

MSVOA_X

ClientSampleId :

ORA-0037

Tgt Ion: 97 Resp: 1074

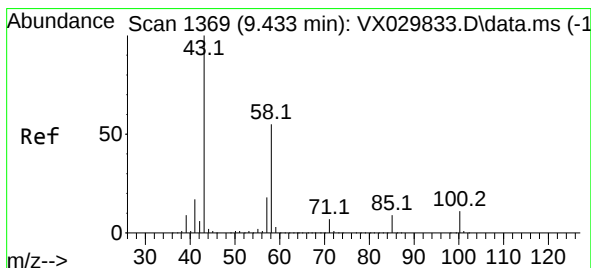
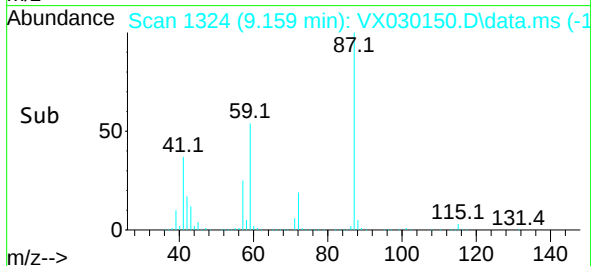
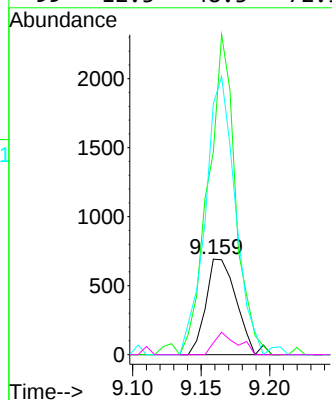
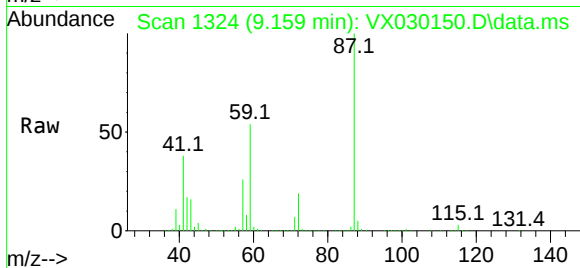
Ion Ratio Lower Upper

97 100

83 212.1 68.9 103.3#

85 262.7 44.0 66.0#

99 12.3 48.3 72.5#



#59

2-Hexanone

Concen: 47.773 ug/l

RT: 9.165 min Scan# 1325

Delta R.T. -0.268 min

Lab File: VX030150.D

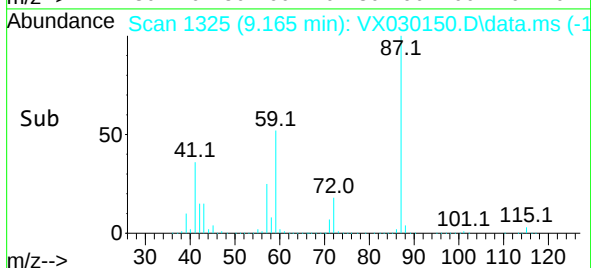
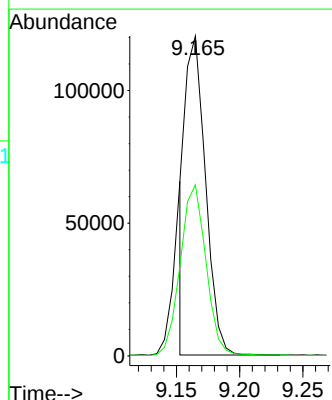
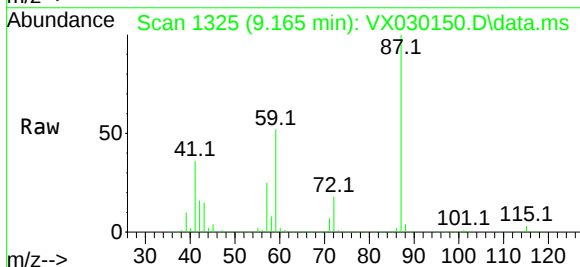
Acq: 20 Jul 2022 22:41

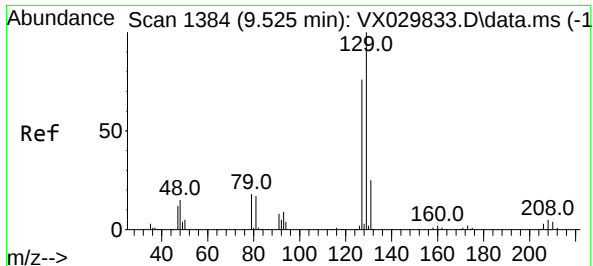
Tgt Ion: 43 Resp: 132135

Ion Ratio Lower Upper

43 100

58 54.9 27.6 82.8

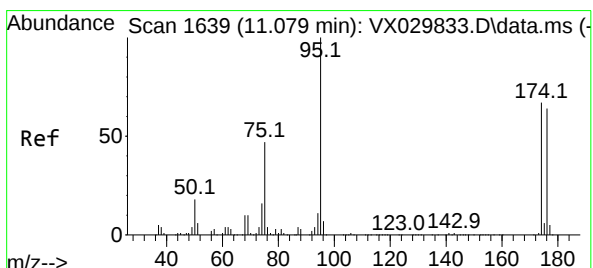
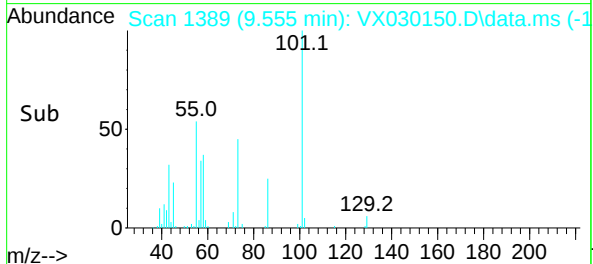
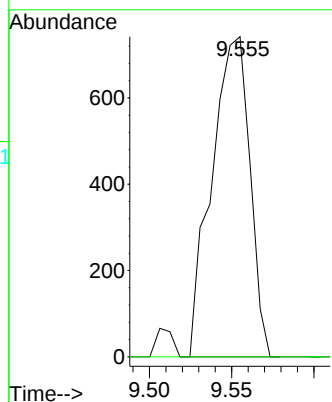
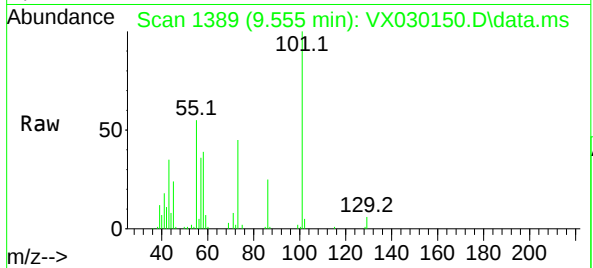




#60
Dibromochloromethane
Concen: 0.528 ug/l
RT: 9.555 min Scan# 11
Delta R.T. 0.030 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

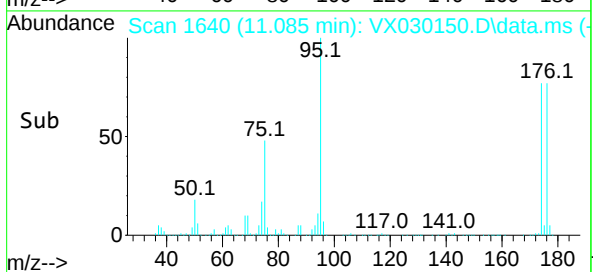
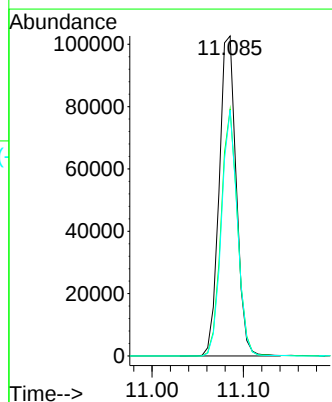
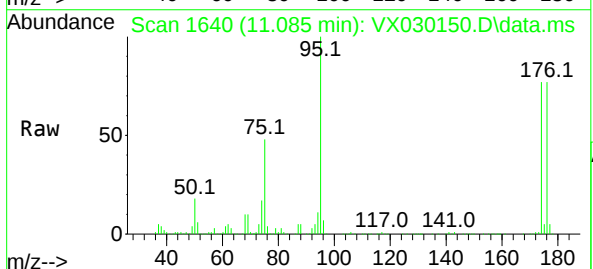
Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

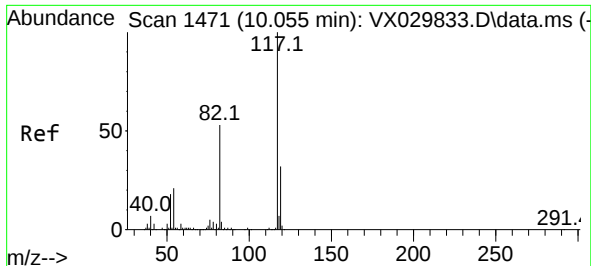
Tgt Ion:129 Resp: 1197
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 46.784 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.006 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion: 95 Resp: 133347
Ion Ratio Lower Upper
95 100
174 73.9 0.0 149.0
176 72.0 0.0 146.0

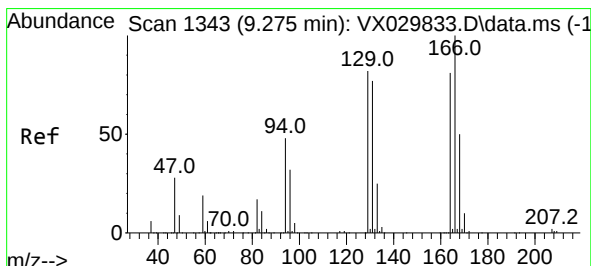
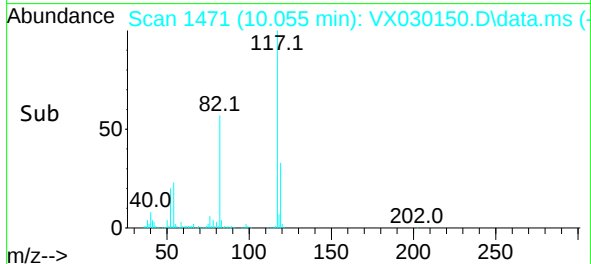
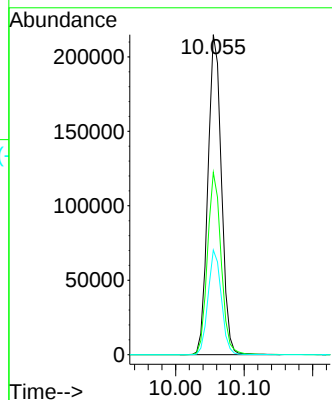
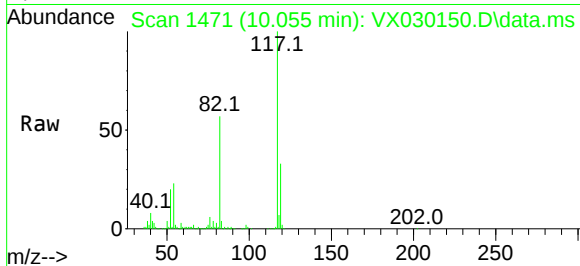




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

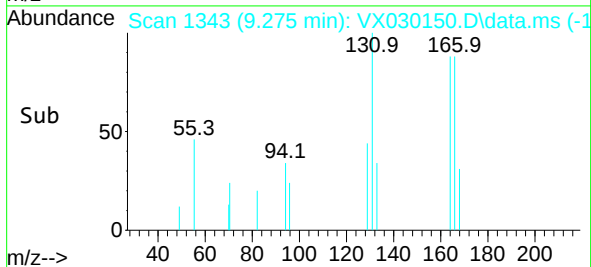
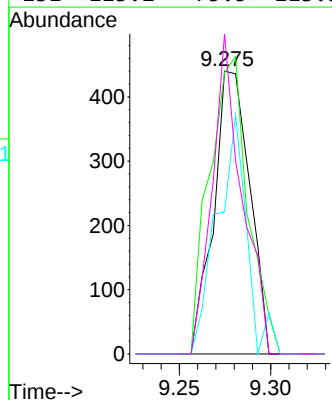
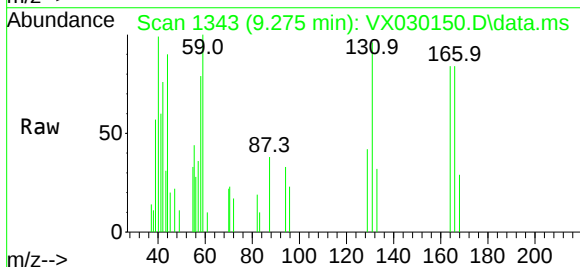
Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

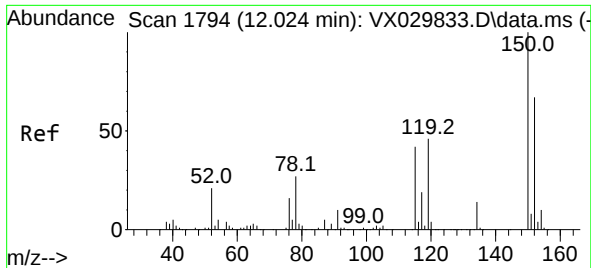
Tgt Ion:117 Resp: 294721
Ion Ratio Lower Upper
117 100
82 56.9 42.7 64.1
119 32.7 25.4 38.2



#64
Tetrachloroethene
Concen: 0.255 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion:164 Resp: 604
Ion Ratio Lower Upper
164 100
166 99.5 98.2 147.4
129 50.2 80.8 121.2#
131 113.2 75.5 113.3

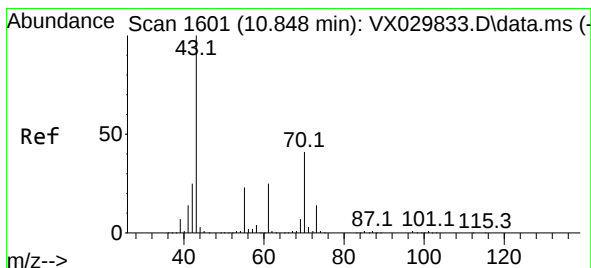
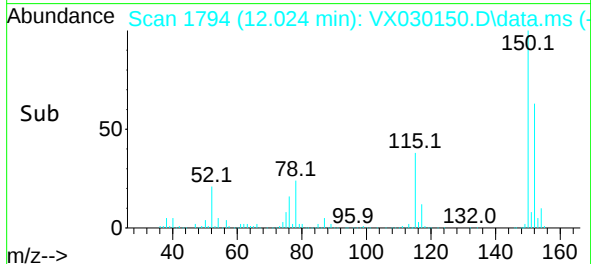
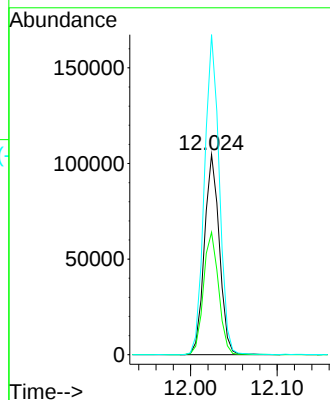
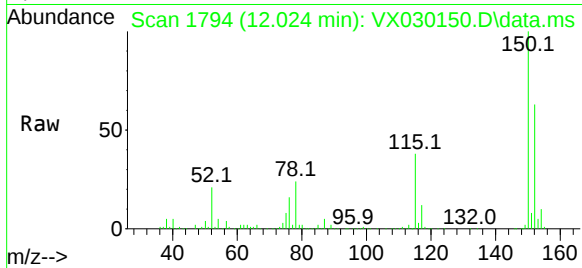




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX030150.D
 Acq: 20 Jul 2022 22:41

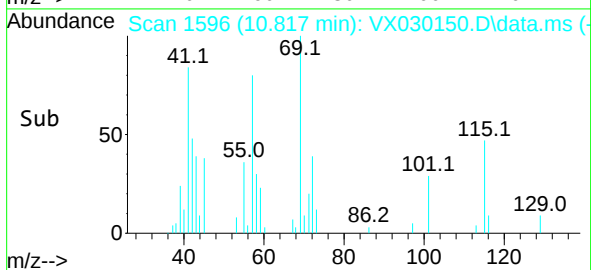
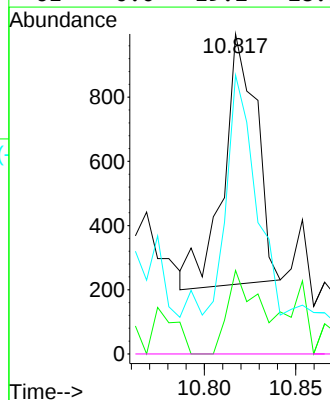
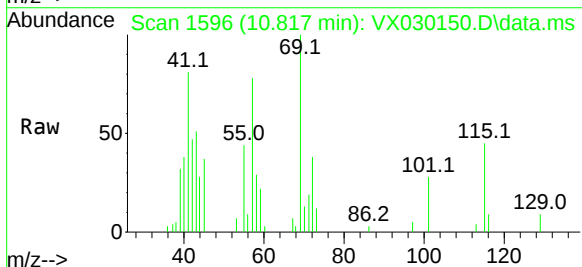
Instrument :
 MSVOA_X
 ClientSampleId :
 ORA-0037

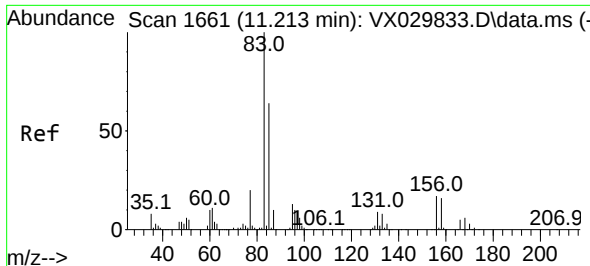
Tgt Ion:152 Resp: 125528
 Ion Ratio Lower Upper
 152 100
 115 61.6 40.5 121.5
 150 158.5 0.0 347.0



#74
 N-ethyl acetate
 Concen: 0.256 ug/l
 RT: 10.817 min Scan# 1596
 Delta R.T. -0.031 min
 Lab File: VX030150.D
 Acq: 20 Jul 2022 22:41

Tgt Ion: 43 Resp: 982
 Ion Ratio Lower Upper
 43 100
 70 30.2 32.3 48.5#
 55 84.2 18.4 27.6#
 61 0.0 19.2 28.8#

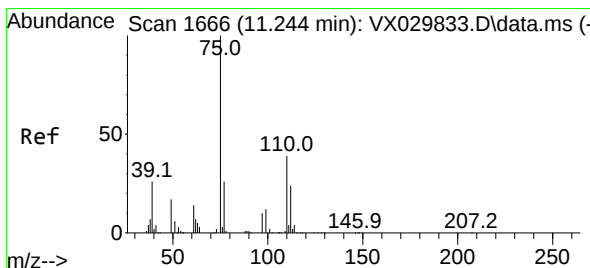
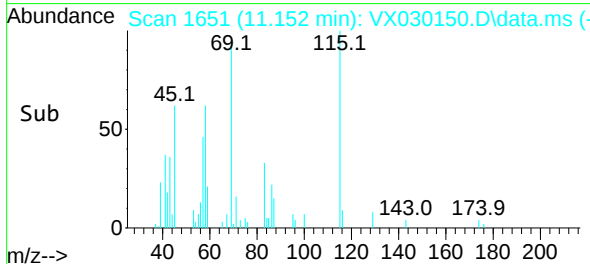
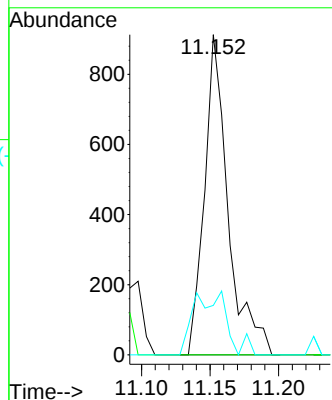
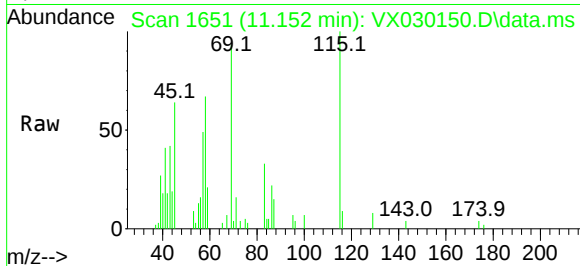




#75
1,1,2,2-Tetrachloroethane
Concen: 0.348 ug/l
RT: 11.152 min Scan# 1639
Delta R.T. -0.061 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

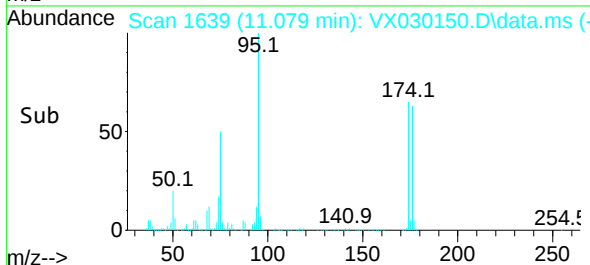
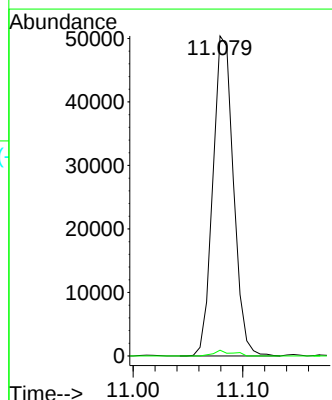
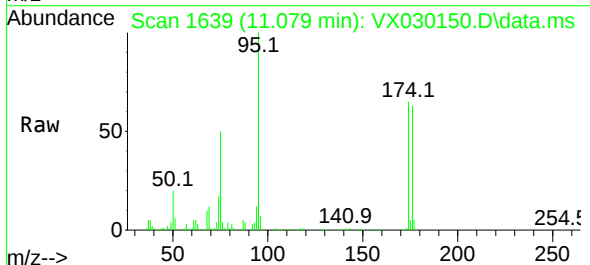
Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

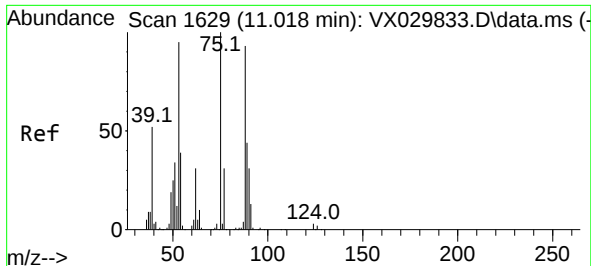
Tgt Ion: 83 Resp: 1096
Ion Ratio Lower Upper
83 100
131 0.0 4.5 13.7#
85 27.7 32.5 97.5#



#76
1,2,3-Trichloropropane
Concen: 22.772 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion: 75 Resp: 65724
Ion Ratio Lower Upper
75 100
77 1.6 19.8 59.3#

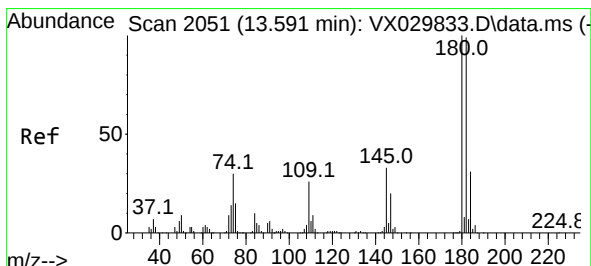
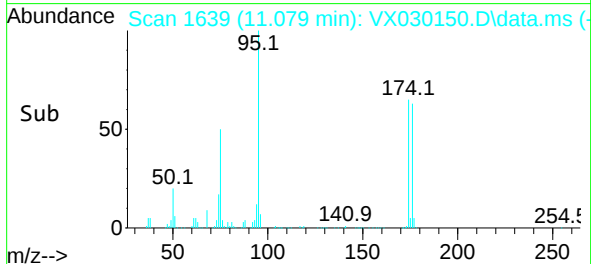
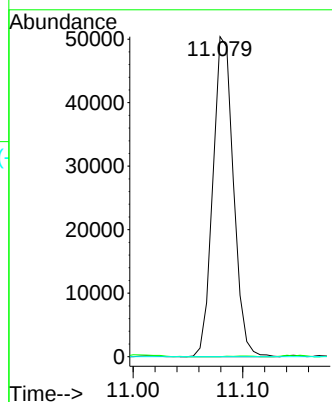
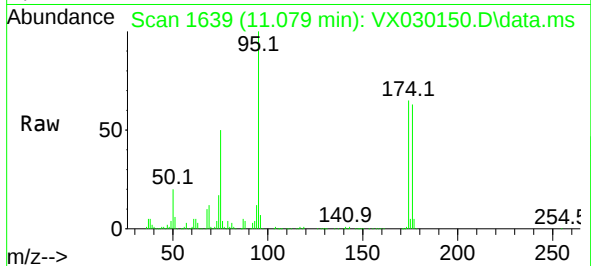




#81
trans-1,4-Dichloro-2-butene
Concen: 65.720 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

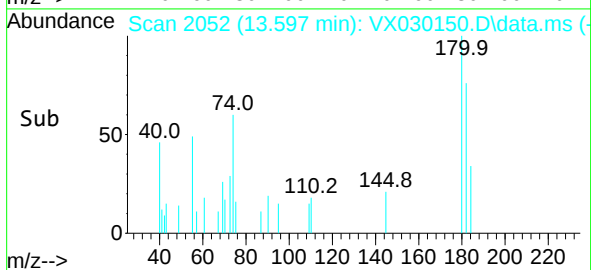
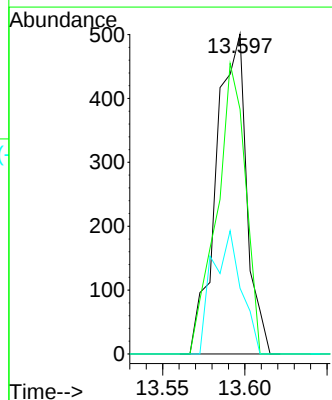
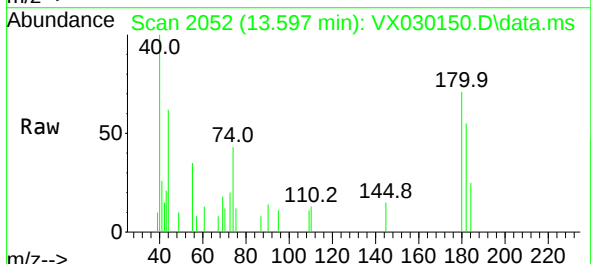
Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

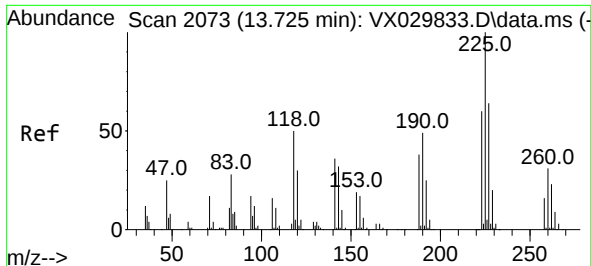
Tgt Ion: 75 Resp: 65724
Ion Ratio Lower Upper
75 100
53 0.2 74.2 111.4#
89 0.0 34.8 52.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.256 ug/l
RT: 13.597 min Scan# 2052
Delta R.T. 0.006 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion: 180 Resp: 645
Ion Ratio Lower Upper
180 100
182 85.7 48.2 144.6
145 36.4 15.9 47.6

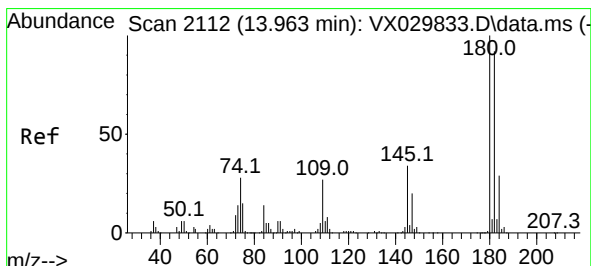
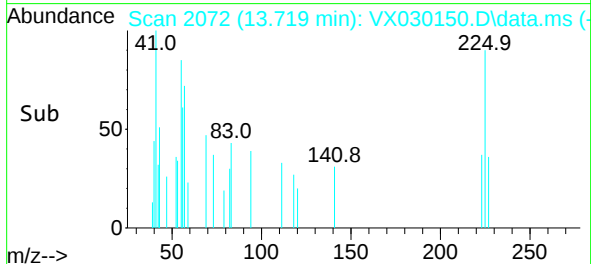
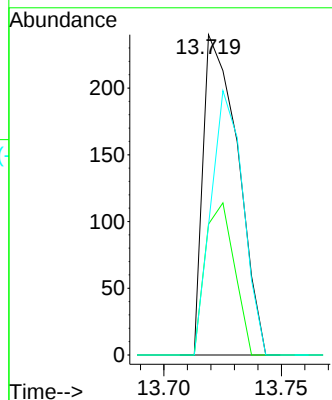
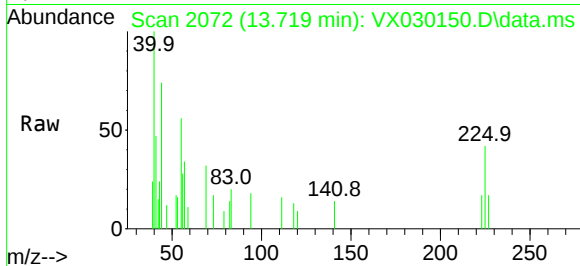




#94
Hexachlorobutadiene
Concen: 0.244 ug/l
RT: 13.719 min Scan# 2073
Delta R.T. -0.006 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Instrument :
MSVOA_X
ClientSampleId :
ORA-0037

Tgt Ion	Ratio	Lower	Upper
225	100		
223	39.8	30.6	91.6
227	76.4	31.9	95.9



#96
1,2,3-Trichlorobenzene
Concen: 0.231 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX030150.D
Acq: 20 Jul 2022 22:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	79.4	47.0	141.0
145	7.8	17.0	50.9

