

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081623\
 Data File : VX037021.D
 Acq On : 16 Aug 2023 16:36
 Operator : JC/MD
 Sample : 04024-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE114D1-20230815

Quant Time: Aug 17 04:16:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072123W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 21 12:14:12 2023
 Response via : Initial Calibration

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

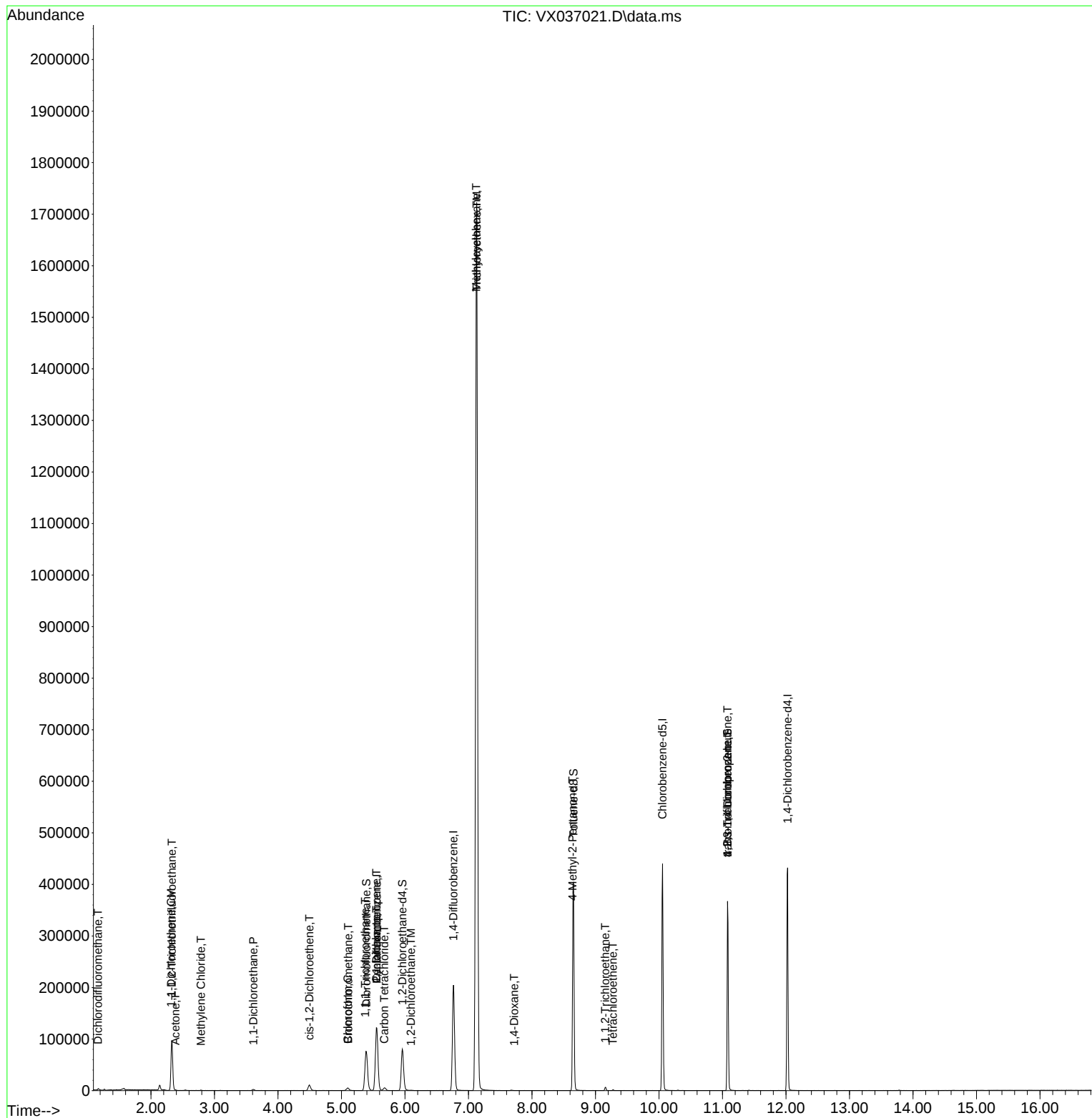
Internal Standards						
1) Pentafluorobenzene	5.556	168	113008	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	208607	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	200581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	91538	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	80430	48.101	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	96.200%
35) Dibromofluoromethane	5.391	113	66973	46.709	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.420%
50) Toluene-d8	8.653	98	247116	48.599	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.200%
62) 4-Bromofluorobenzene	11.079	95	100122	52.191	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	104.380%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	1808	1.211	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	34417	26.833	ug/l	98
12) 1,1-Dichloroethene	2.319	96	5419	4.282	ug/l	81
16) Acetone	2.386	43	729	1.051	ug/l #	79
20) Methylene Chloride	2.788	84	400	0.259	ug/l #	74
24) 1,1-Dichloroethane	3.611	63	2681	1.011	ug/l	95
27) cis-1,2-Dichloroethene	4.495	96	7214	4.295	ug/l	80
28) Bromochloromethane	5.105	49	426	0.332	ug/l #	16
30) Chloroform	5.099	83	6014	2.216	ug/l	99
31) Cyclohexane	5.550	56	2324	1.004	ug/l #	1
32) 1,1,1-Trichloroethane	5.373	97	902	0.363	ug/l #	50
36) 1,1-Dichloropropene	5.550	75	9422	4.409	ug/l #	50
38) Carbon Tetrachloride	5.672	117	4758	2.094	ug/l #	88
39) Methylcyclohexane	7.123	83	7889	2.969	ug/l #	1
42) 1,2-Dichloroethane	6.092	62	704	0.310	ug/l #	77
44) Trichloroethene	7.129	130	670052	412.266	ug/l	98
49) 1,4-Dioxane	7.720	88	48	1.227	ug/l #	68
51) 4-Methyl-2-Pentanone	8.641	43	1048	0.455	ug/l #	1
55) 1,1,2-Trichloroethane	9.153	97	1728	1.055	ug/l #	83
64) Tetrachloroethene	9.275	164	324	0.217	ug/l #	57
76) 1,2,3-Trichloropropane	11.079	75	52207	24.248	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	52207	54.959	ug/l #	5

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

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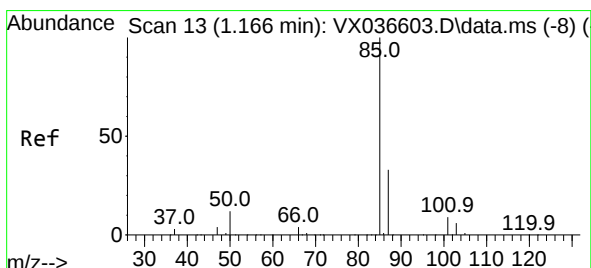
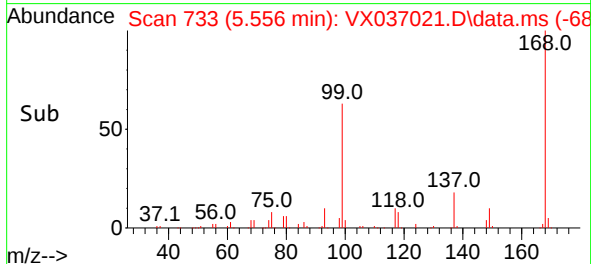
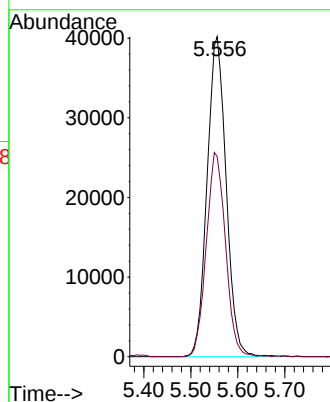
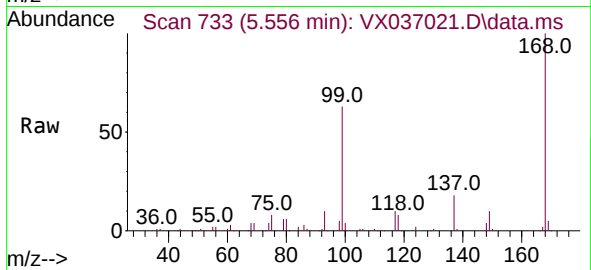




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

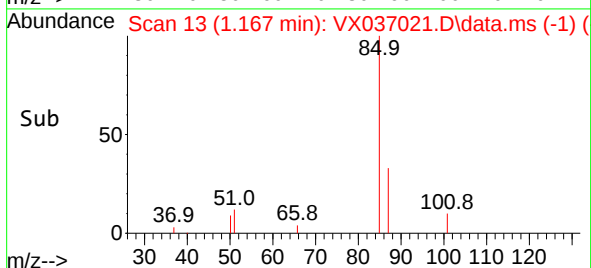
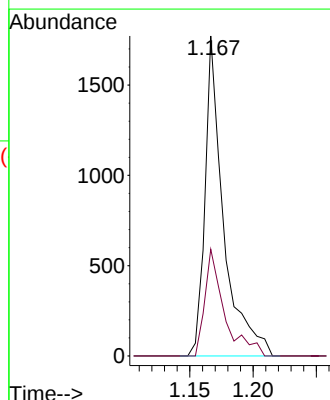
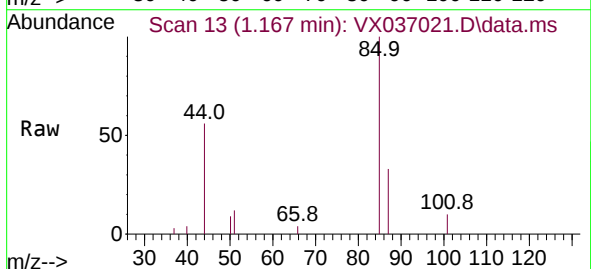
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20230815

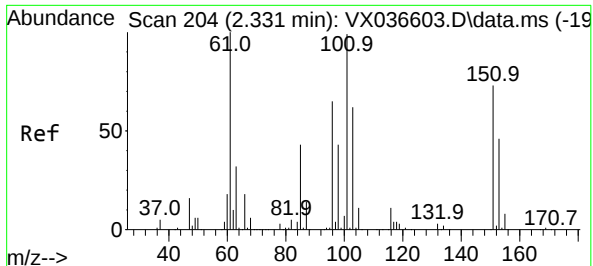
Tgt Ion:168 Resp: 113008
Ion Ratio Lower Upper
168 100
99 62.5 56.6 85.0



#2
Dichlorodifluoromethane
Concen: 1.211 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

Tgt Ion: 85 Resp: 1808
Ion Ratio Lower Upper
85 100
87 33.4 16.7 50.1

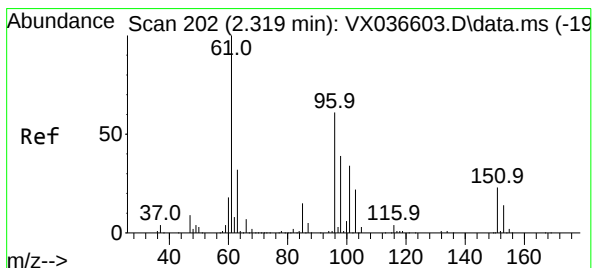
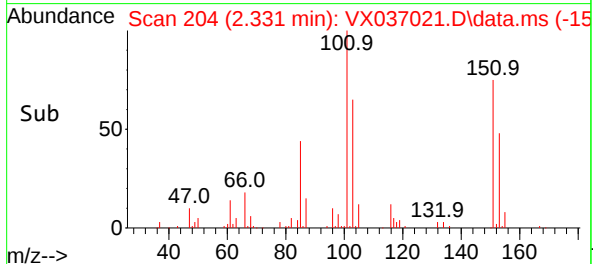
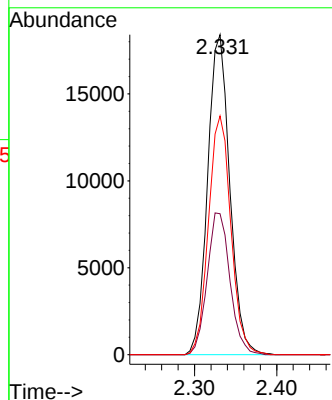
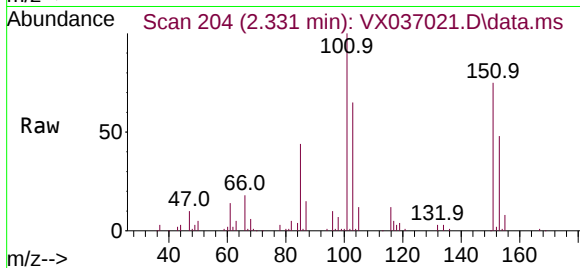




#9
1,1,2-Trichlorotrifluoroethane
Concen: 26.833 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

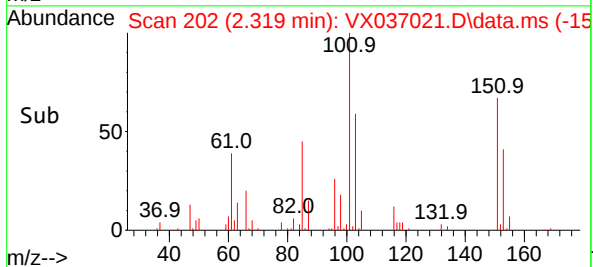
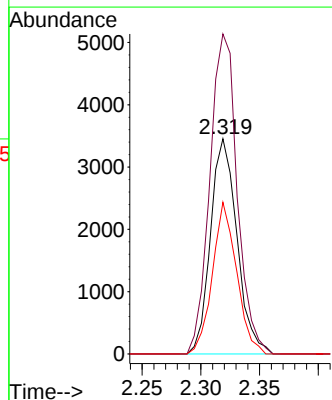
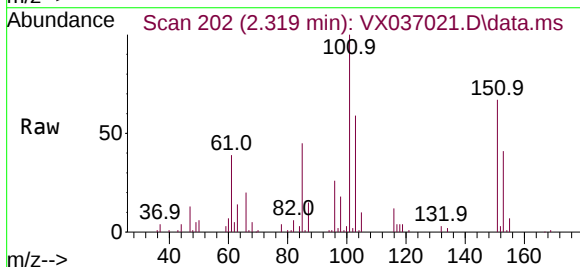
Instrument :
MSVOA_X
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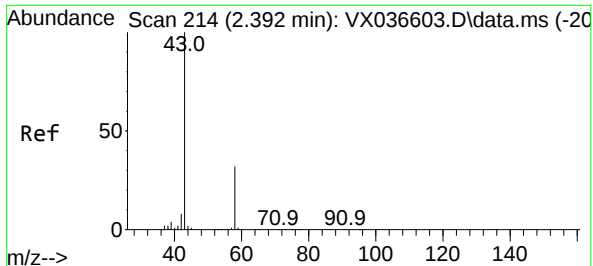
Tgt Ion:101 Resp: 34417
Ion Ratio Lower Upper
101 100
85 45.5 37.0 55.6
151 75.4 58.6 87.8



#12
1,1-Dichloroethene
Concen: 4.282 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

Tgt Ion: 96 Resp: 5419
Ion Ratio Lower Upper
96 100
61 148.7 144.6 216.8
98 70.5 50.4 75.6

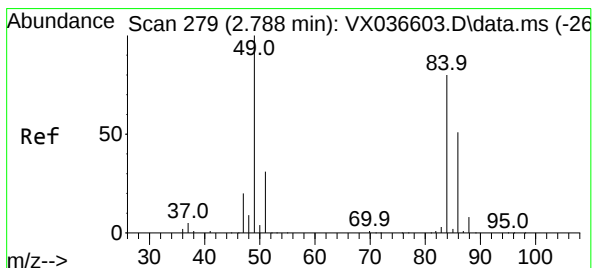
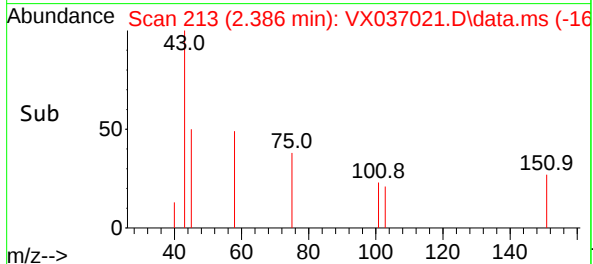
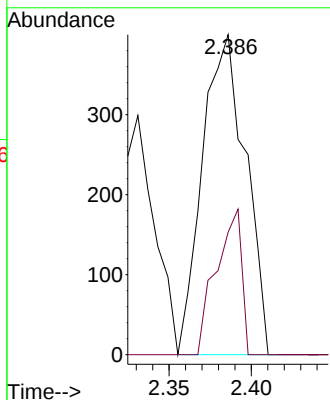
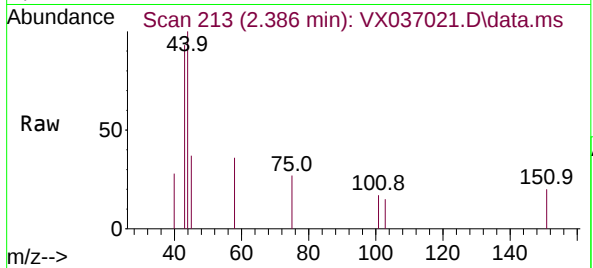




#16
Acetone
Concen: 1.051 ug/l
RT: 2.386 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

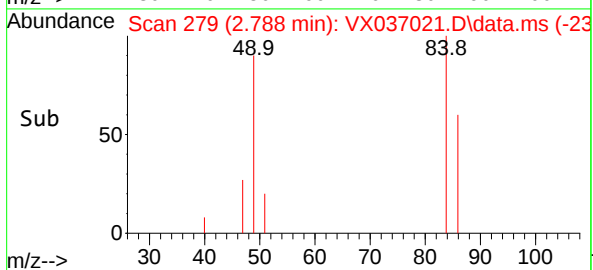
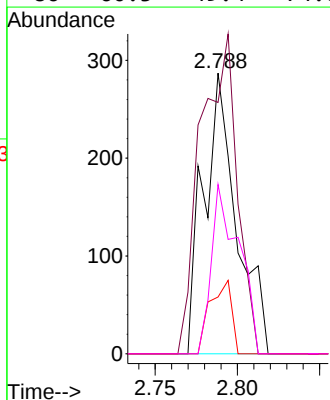
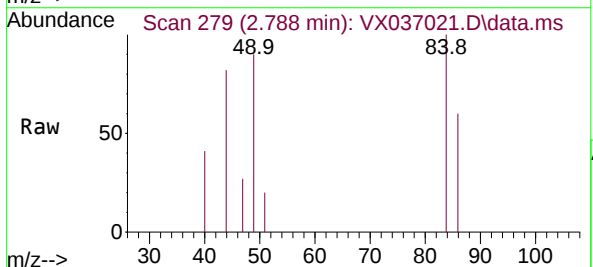
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20230815

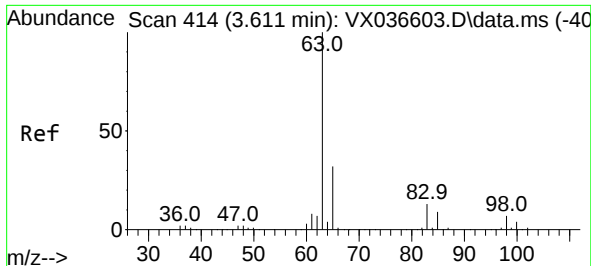
Tgt Ion: 43 Resp: 729
Ion Ratio Lower Upper
43 100
58 38.3 21.9 32.9#



#20
Methylene Chloride
Concen: 0.259 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

Tgt Ion: 84 Resp: 400
Ion Ratio Lower Upper
84 100
49 89.5 103.6 155.4#
51 20.2 33.8 50.6#
86 60.3 49.4 74.0

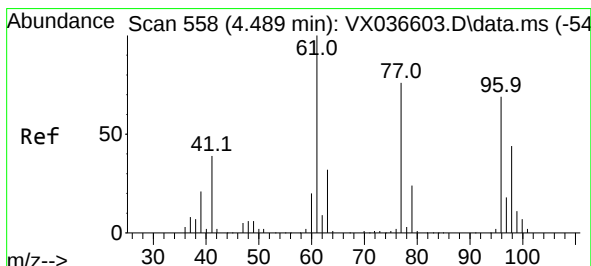
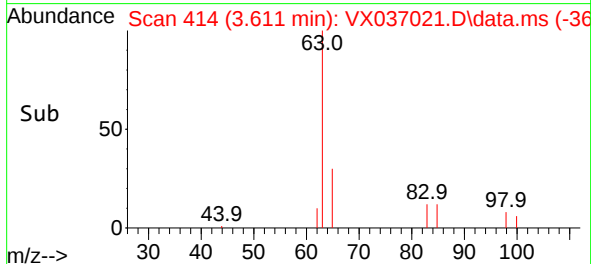
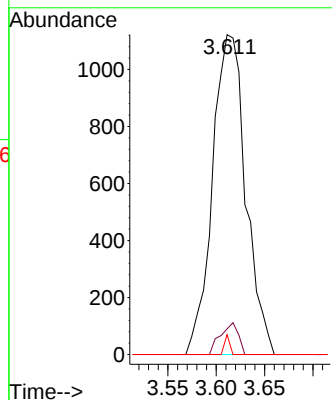
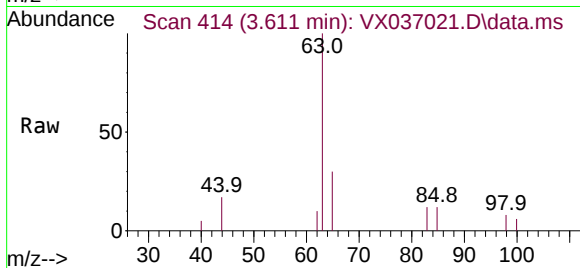




#24
1,1-Dichloroethane
Concen: 1.011 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

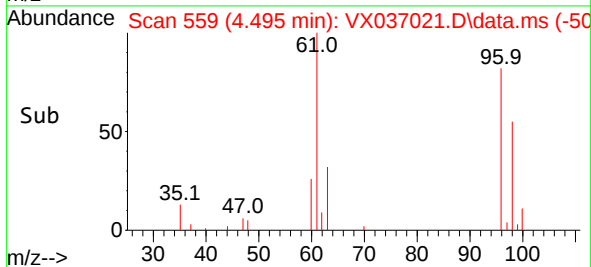
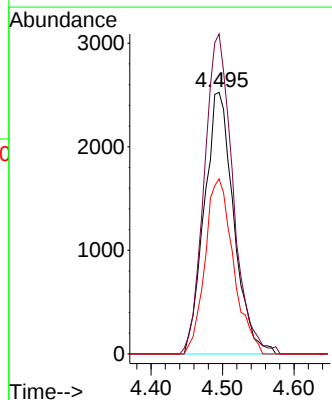
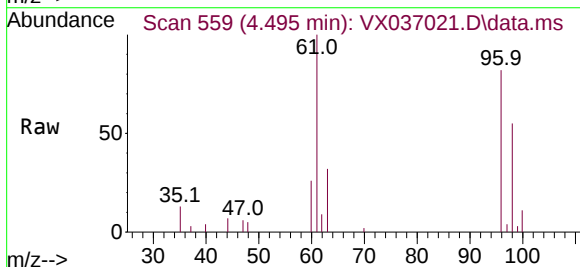
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20230815

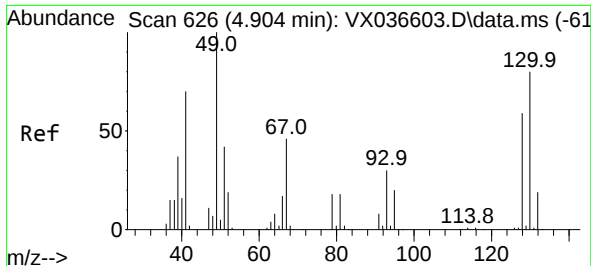
Tgt Ion: 63 Resp: 2681
Ion Ratio Lower Upper
63 100
98 8.0 3.3 9.8
100 6.2 2.1 6.5



#27
cis-1,2-Dichloroethene
Concen: 4.295 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.006 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

Tgt Ion: 96 Resp: 7214
Ion Ratio Lower Upper
96 100
61 119.0 0.0 312.2
98 64.6 0.0 129.0

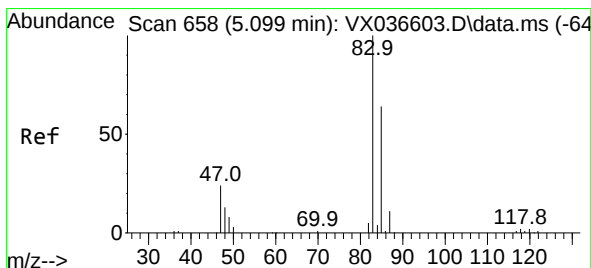
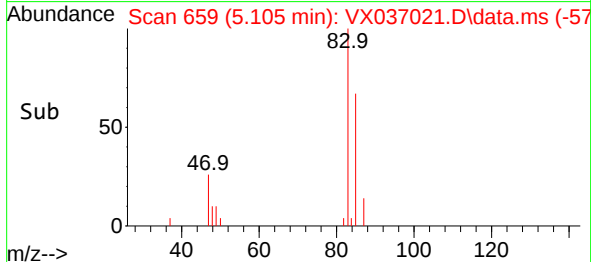
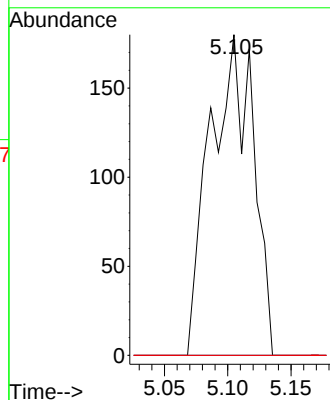
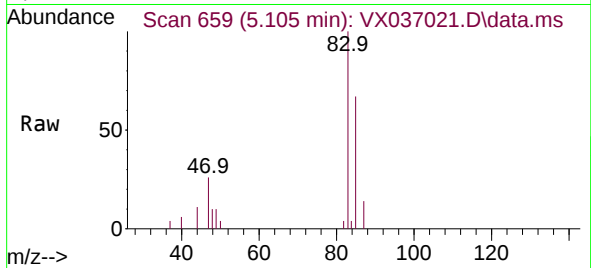




#28
Bromochloromethane
Concen: 0.332 ug/l
RT: 5.105 min Scan# 61
Delta R.T. 0.201 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

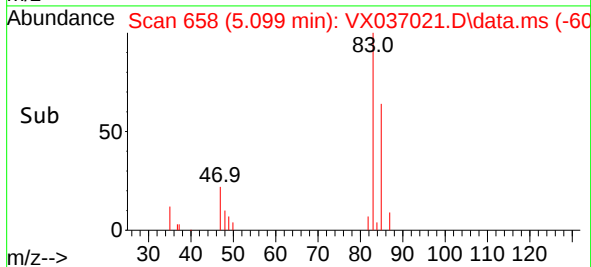
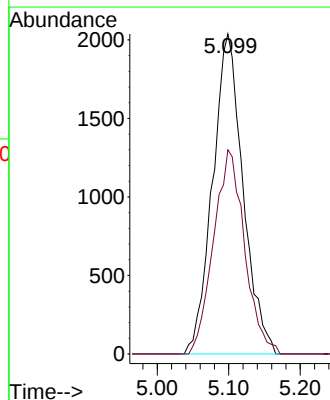
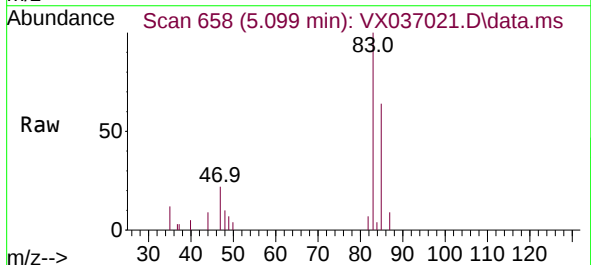
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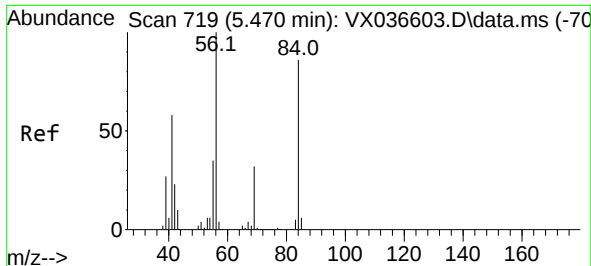
Tgt Ion: 49 Resp: 426
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 57.5 86.3#



#30
Chloroform
Concen: 2.216 ug/l
RT: 5.099 min Scan# 658
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

Tgt Ion: 83 Resp: 6014
Ion Ratio Lower Upper
83 100
85 63.8 50.3 75.5

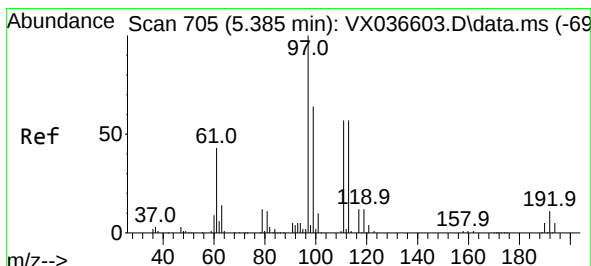
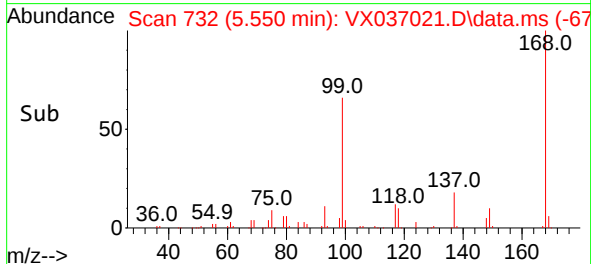
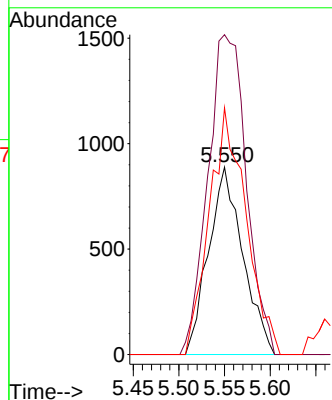
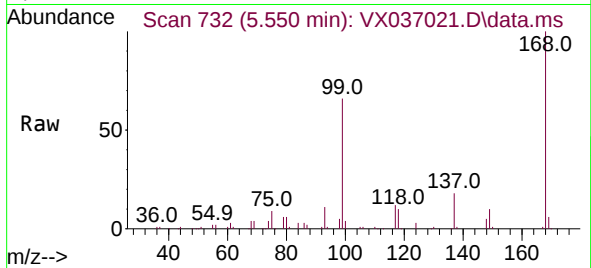




#31
Cyclohexane
Concen: 1.004 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.079 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

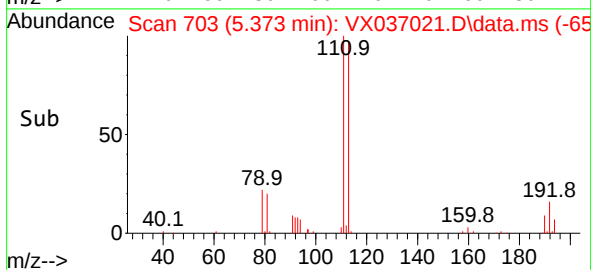
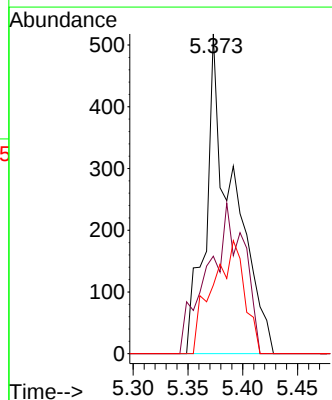
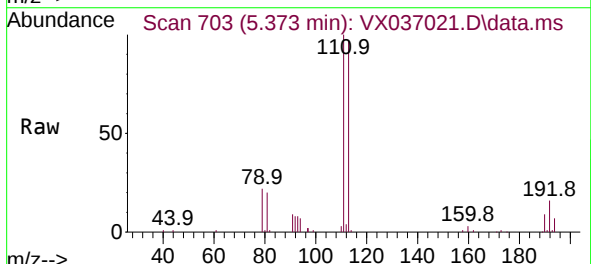
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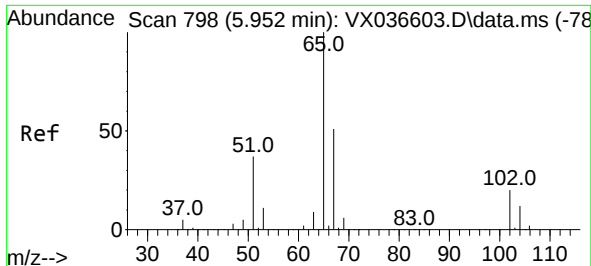
Tgt Ion: 56 Resp: 2324
Ion Ratio Lower Upper
56 100
69 170.6 23.4 35.2#
84 131.6 65.9 98.9#



#32
1,1,1-Trichloroethane
Concen: 0.363 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.012 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

Tgt Ion: 97 Resp: 902
Ion Ratio Lower Upper
97 100
99 0.0 51.1 76.7#
61 41.4 36.4 54.6





#33

1,2-Dichloroethane-d4

Concen: 48.101 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

Instrument :

MSVOA_X

ClientSampleId :

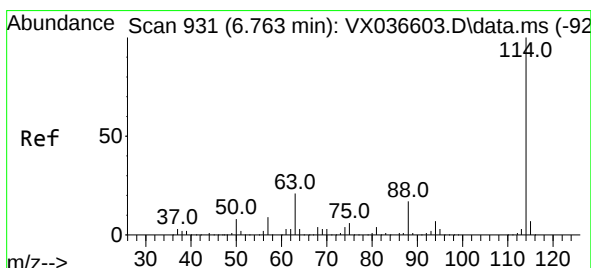
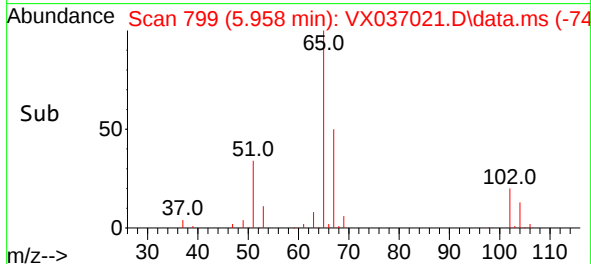
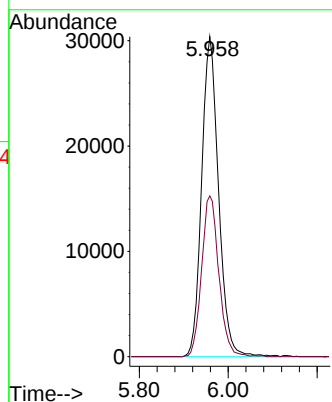
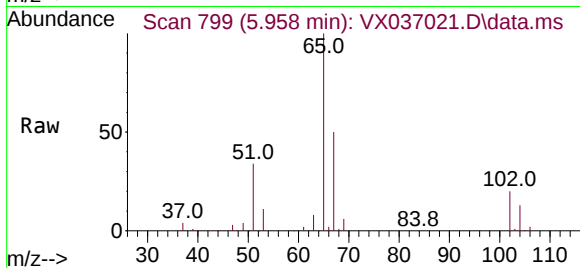
RE114D1-20230815

Tgt Ion: 65 Resp: 80430

Ion Ratio Lower Upper

65 100

67 51.0 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

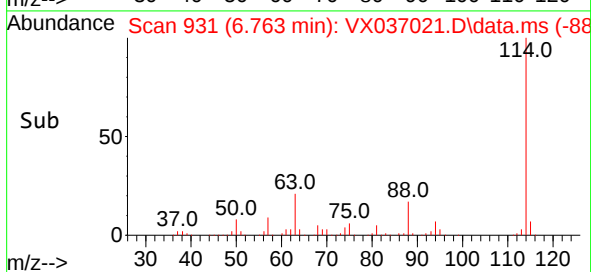
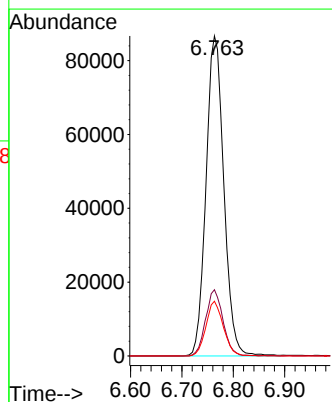
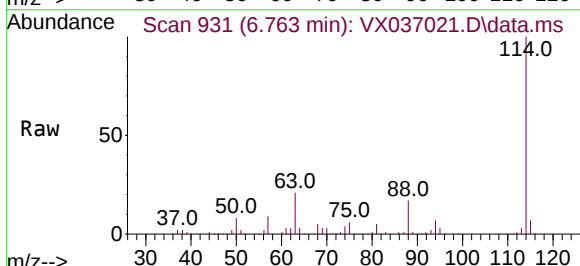
Tgt Ion: 114 Resp: 208607

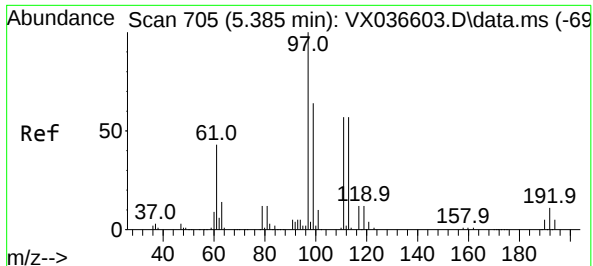
Ion Ratio Lower Upper

114 100

63 20.7 0.0 45.0

88 17.1 0.0 36.6





#35

Dibromofluoromethane

Concen: 46.709 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20230815

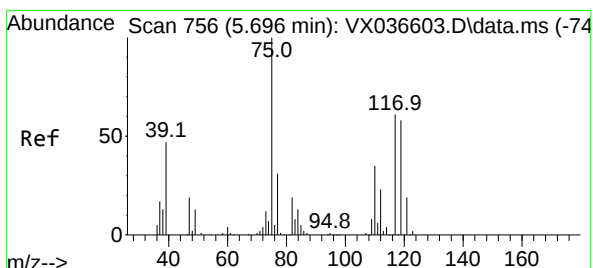
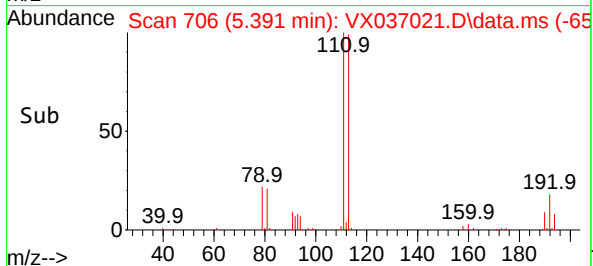
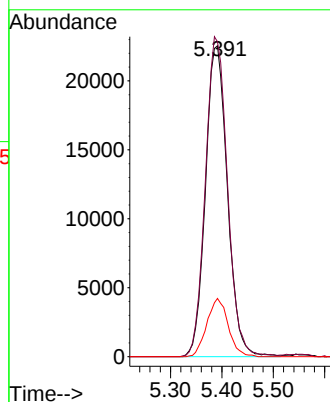
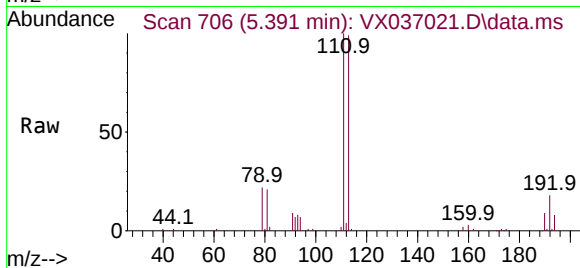
Tgt Ion:113 Resp: 66973

Ion Ratio Lower Upper

113 100

111 103.6 82.9 124.3

192 18.3 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.409 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

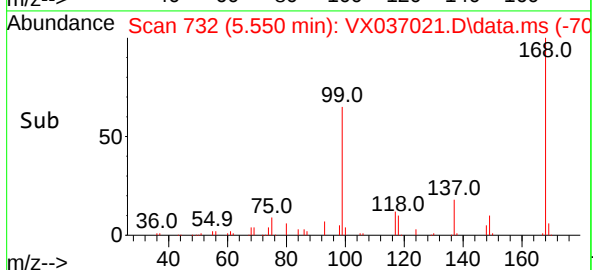
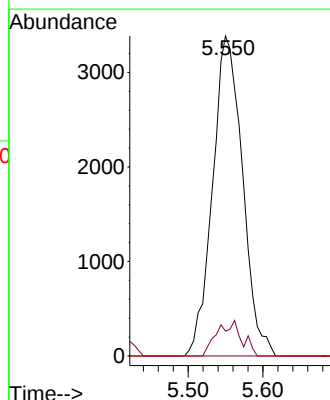
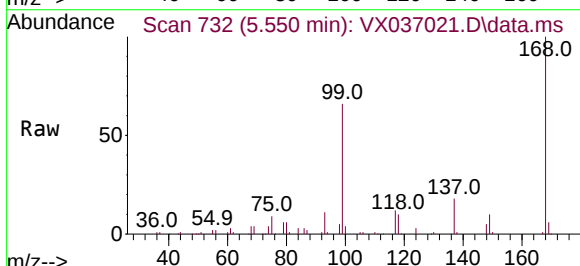
Tgt Ion: 75 Resp: 9422

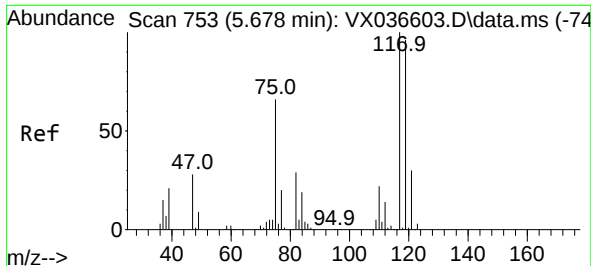
Ion Ratio Lower Upper

75 100

110 9.1 17.0 50.9#

77 0.0 24.7 37.1#

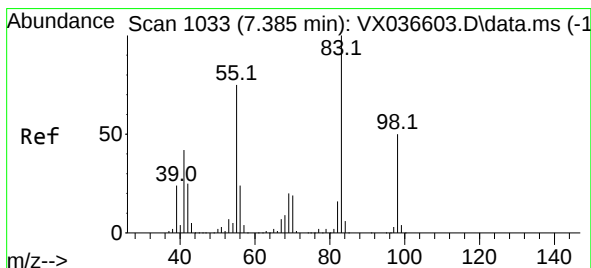
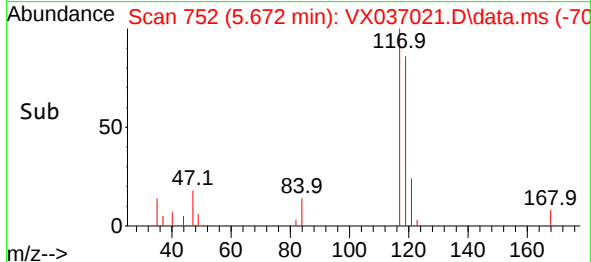
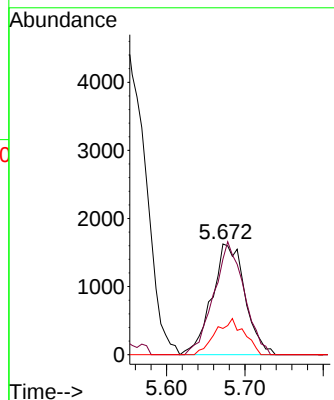
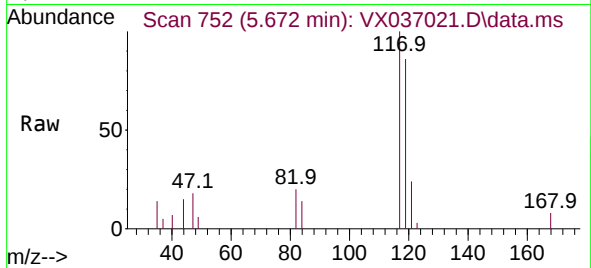




#38
Carbon Tetrachloride
Concen: 2.094 ug/l
RT: 5.672 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

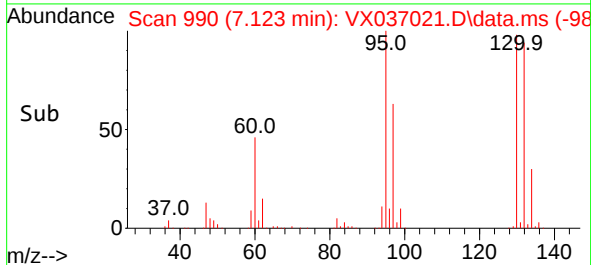
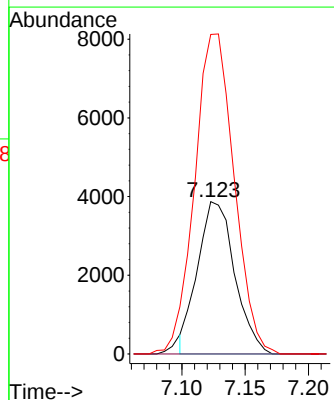
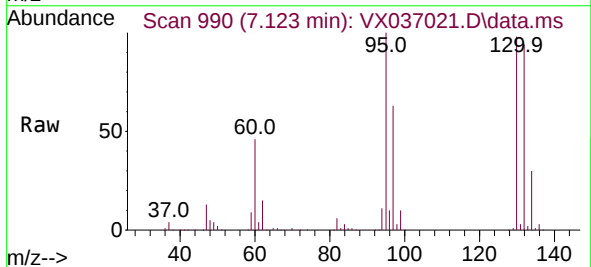
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20230815

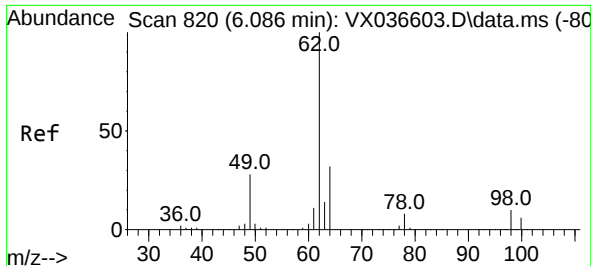
Tgt Ion:117 Resp: 4758
Ion Ratio Lower Upper
117 100
119 86.2 78.2 117.2
121 23.7 24.4 36.6#



#39
Methylcyclohexane
Concen: 2.969 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.262 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

Tgt Ion: 83 Resp: 7889
Ion Ratio Lower Upper
83 100
55 0.0 64.6 97.0#
98 209.7 36.7 55.1#





#42

1,2-Dichloroethane

Concen: 0.310 ug/l

RT: 6.092 min Scan# 81

Delta R.T. 0.006 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

Instrument :

MSVOA_X

ClientSampleId :

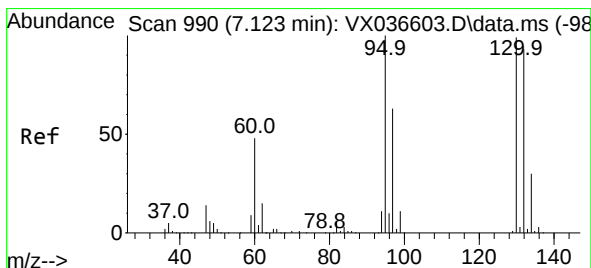
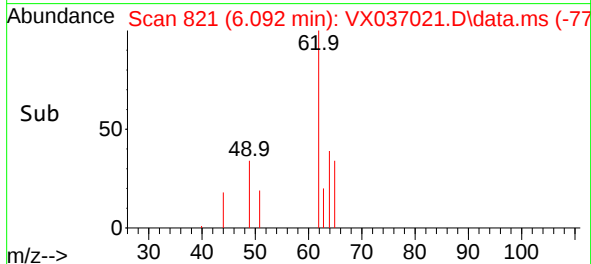
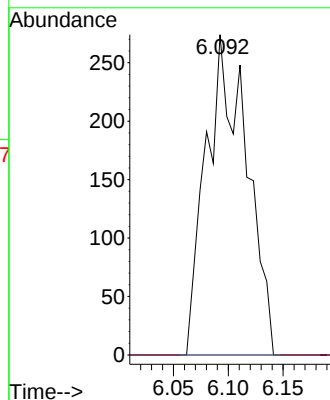
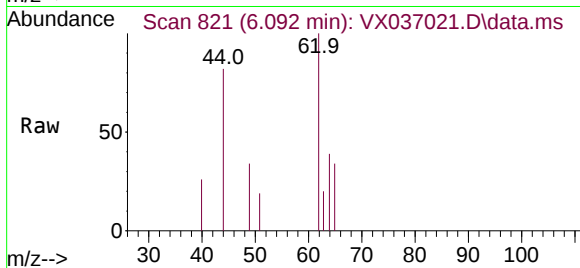
RE114D1-20230815

Tgt Ion: 62 Resp: 704

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.0



#44

Trichloroethene

Concen: 412.266 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.006 min

Lab File: VX037021.D

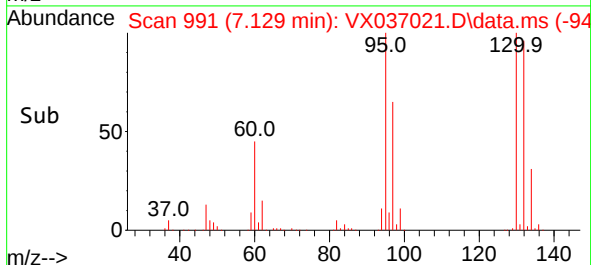
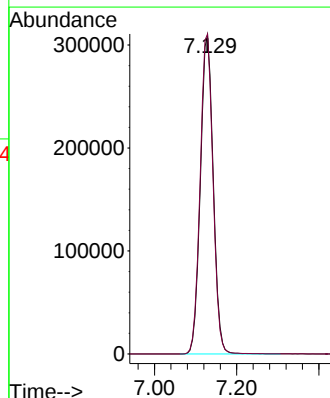
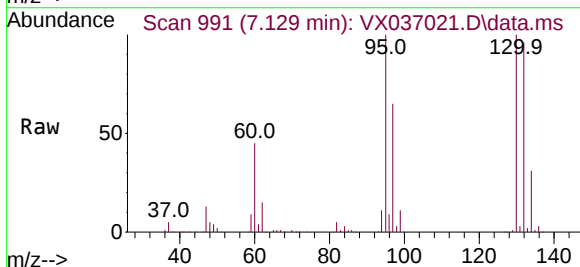
Acq: 16 Aug 2023 16:36

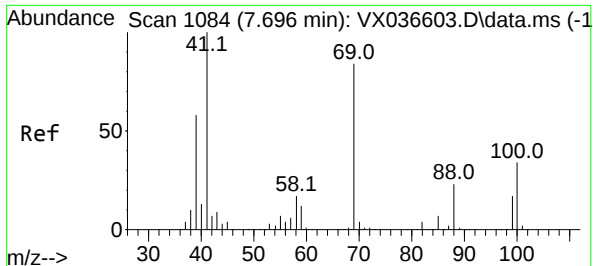
Tgt Ion:130 Resp: 670052

Ion Ratio Lower Upper

130 100

95 100.2 0.0 204.4





#49

1,4-Dioxane

Concen: 1.227 ug/l

RT: 7.720 min Scan# 1088

Delta R.T. 0.025 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20230815

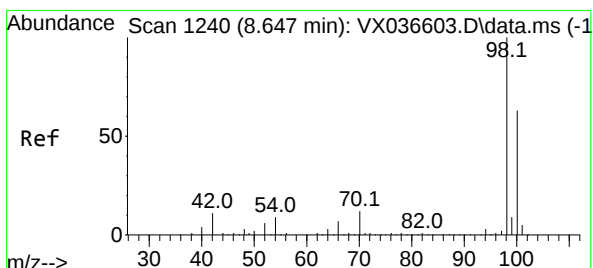
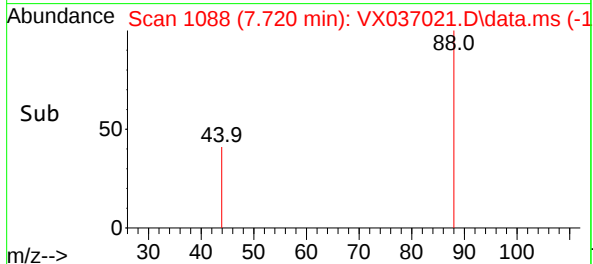
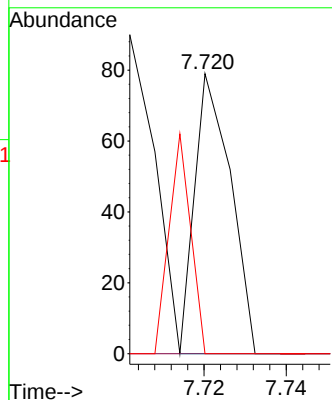
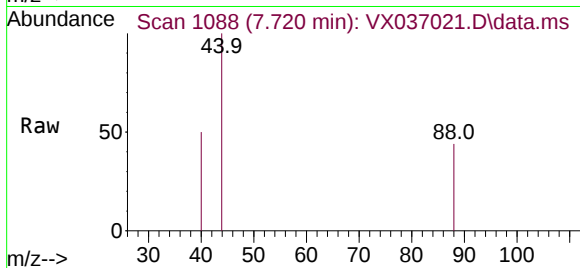
Tgt Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 47.9 60.1 90.1#



#50

Toluene-d8

Concen: 48.599 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.006 min

Lab File: VX037021.D

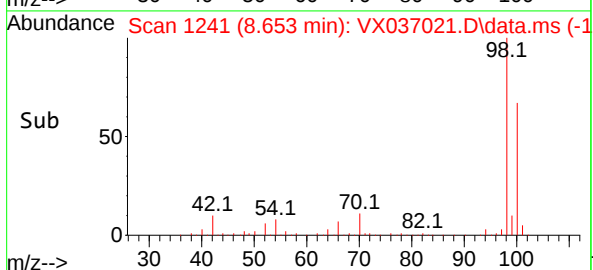
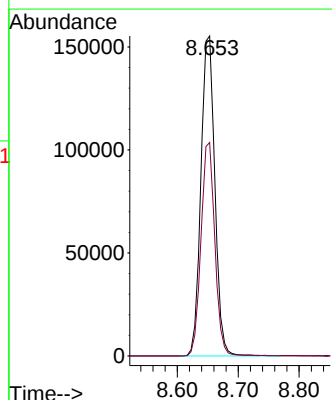
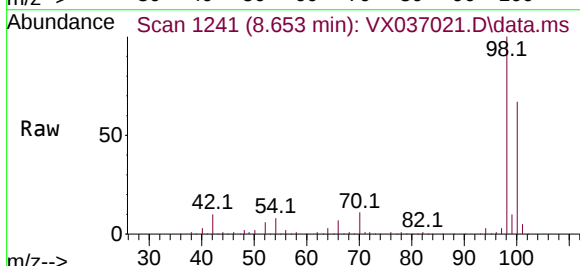
Acq: 16 Aug 2023 16:36

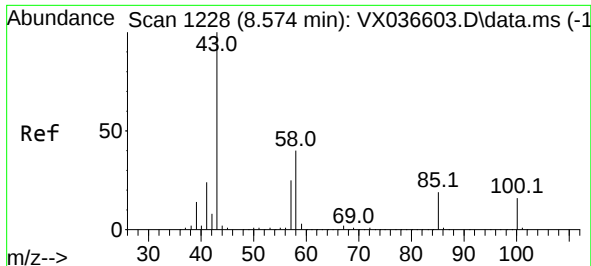
Tgt Ion: 98 Resp: 247116

Ion Ratio Lower Upper

98 100

100 66.2 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 0.455 ug/l

RT: 8.641 min Scan# 11

Delta R.T. 0.067 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

Instrument :

MSVOA_X

ClientSampleId :

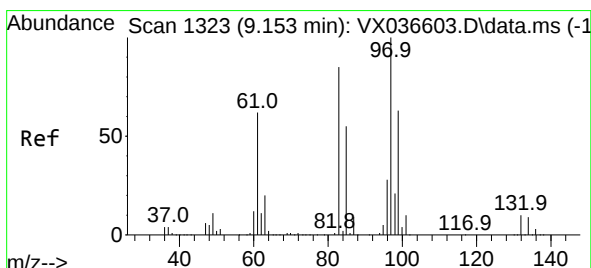
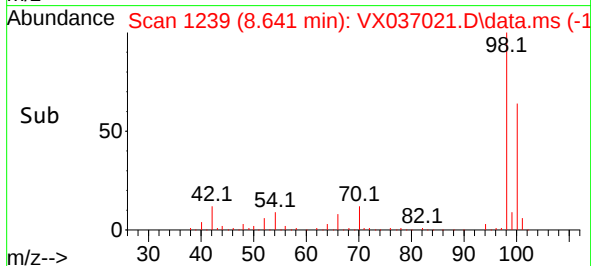
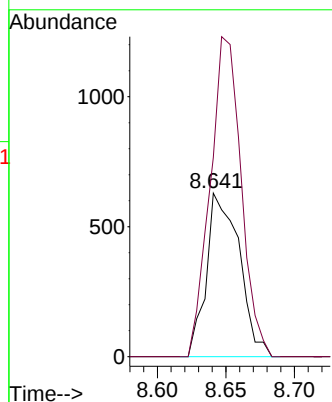
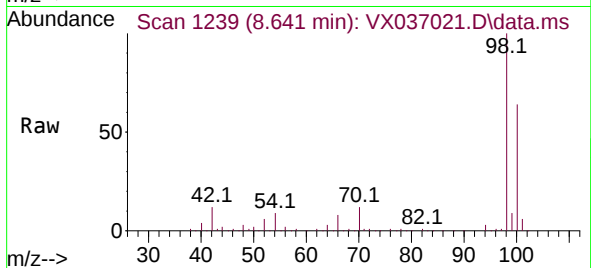
RE114D1-20230815

Tgt Ion: 43 Resp: 1048

Ion Ratio Lower Upper

43 100

58 185.1 30.4 45.6#



#55

1,1,2-Trichloroethane

Concen: 1.055 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

Tgt Ion: 97 Resp: 1728

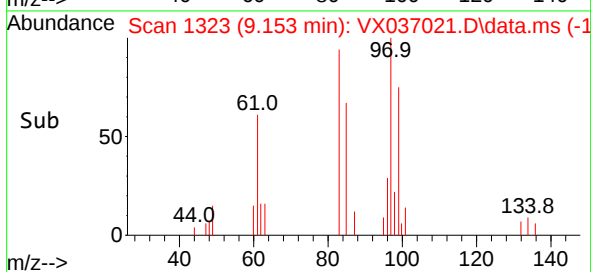
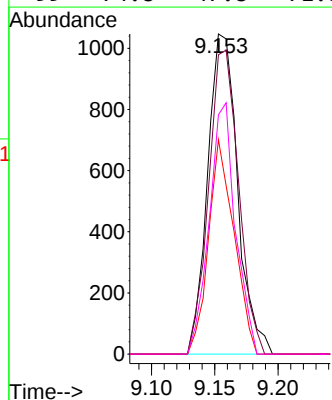
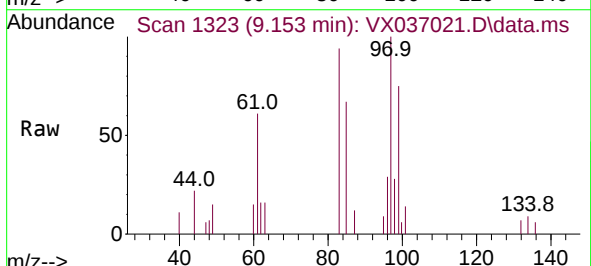
Ion Ratio Lower Upper

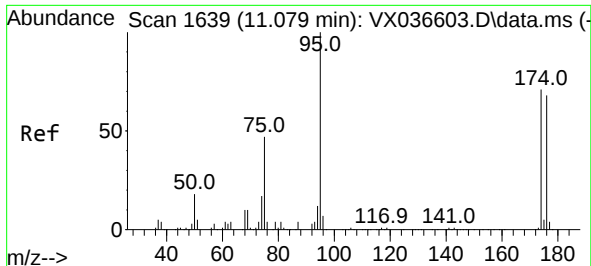
97 100

83 93.5 65.8 98.8

85 67.0 41.6 62.4#

99 74.8 47.8 71.8#

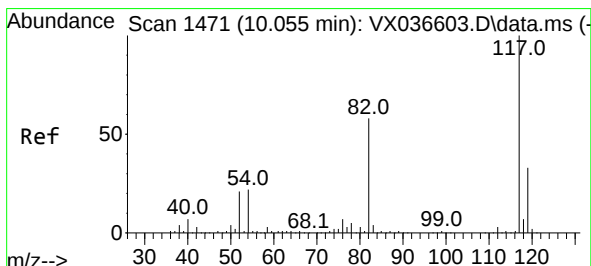
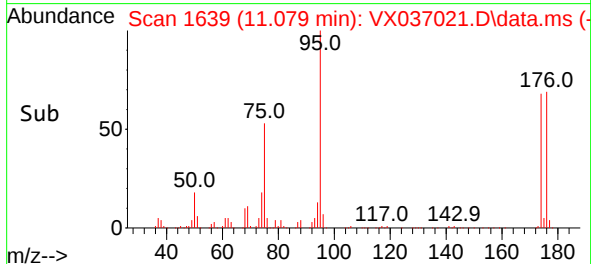
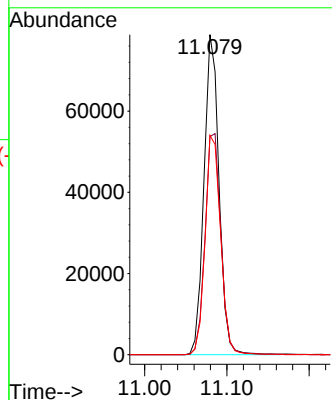
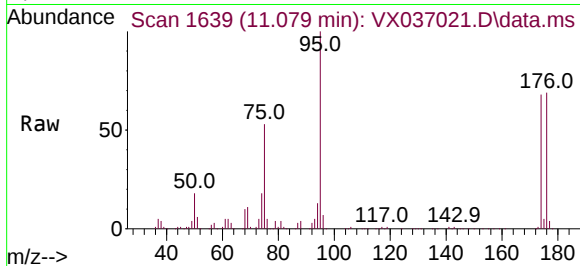




#62
4-Bromofluorobenzene
Concen: 52.191 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

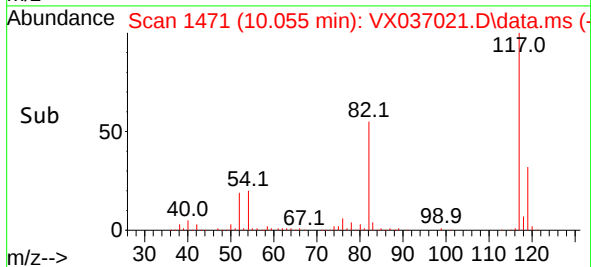
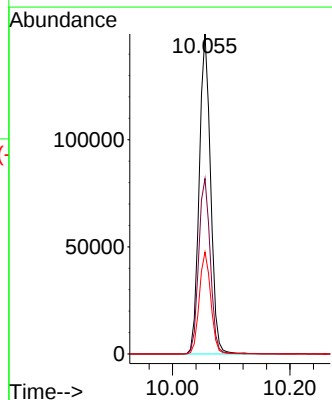
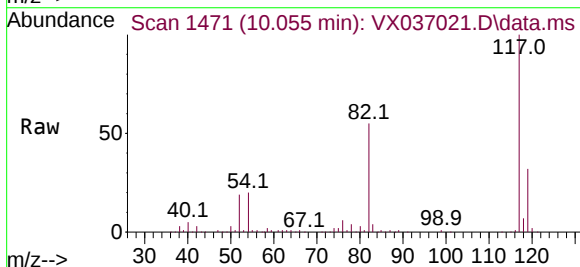
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20230815

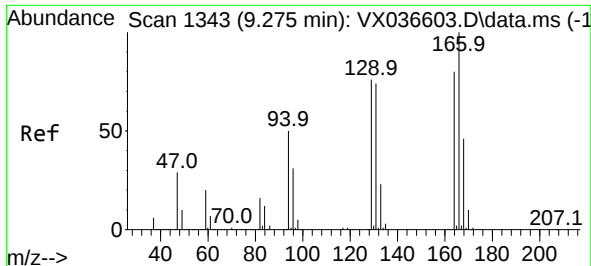
Tgt Ion: 95 Resp: 100122
Ion Ratio Lower Upper
95 100
174 72.9 0.0 135.6
176 70.9 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

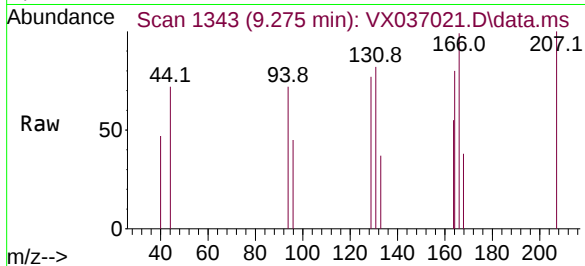
Tgt Ion: 117 Resp: 200581
Ion Ratio Lower Upper
117 100
82 54.8 46.2 69.4
119 31.8 25.5 38.3



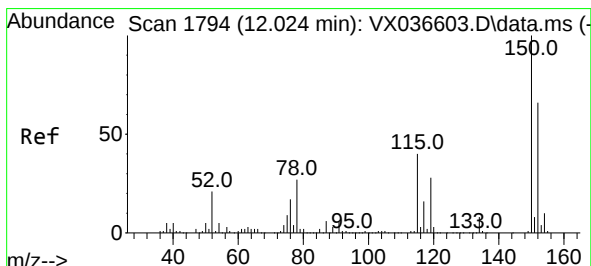
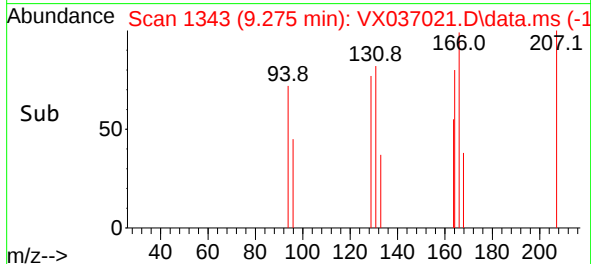
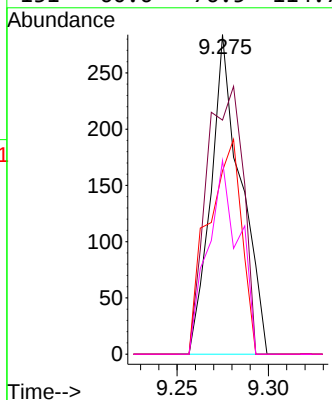


#64
Tetrachloroethene
Concen: 0.217 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20230815

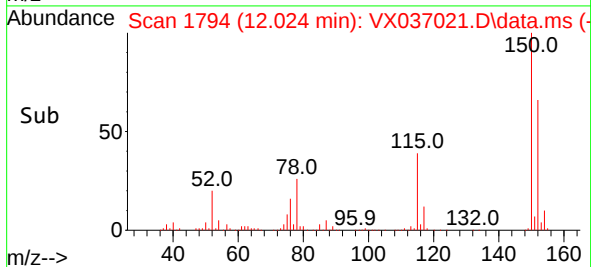
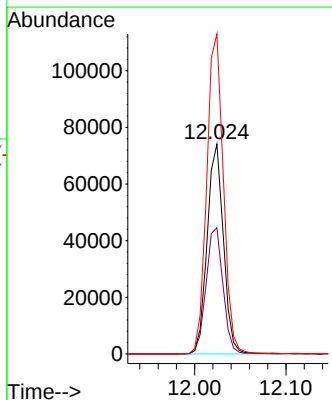
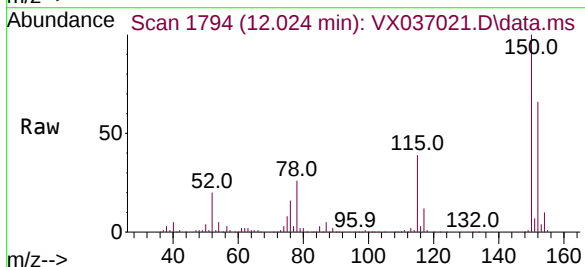


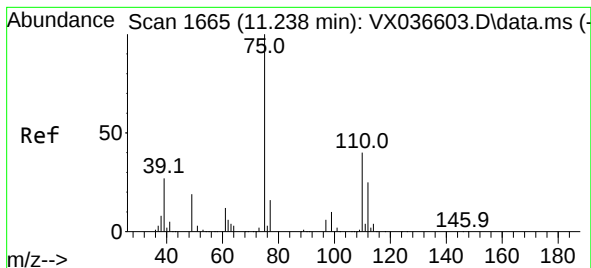
Tgt Ion:164 Resp: 324
Ion Ratio Lower Upper
164 100
166 73.2 102.7 154.1#
129 57.4 80.4 120.6#
131 60.6 76.5 114.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX037021.D
Acq: 16 Aug 2023 16:36

Tgt Ion:152 Resp: 91538
Ion Ratio Lower Upper
152 100
115 62.8 43.3 129.9
150 155.7 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 24.248 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

Instrument :

MSVOA_X

ClientSampleId :

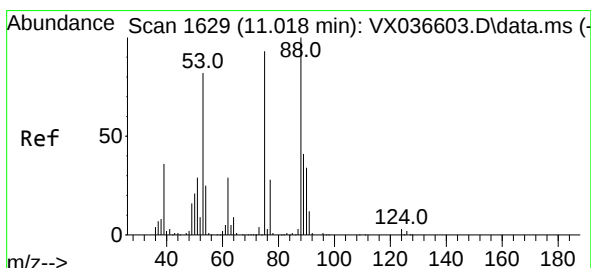
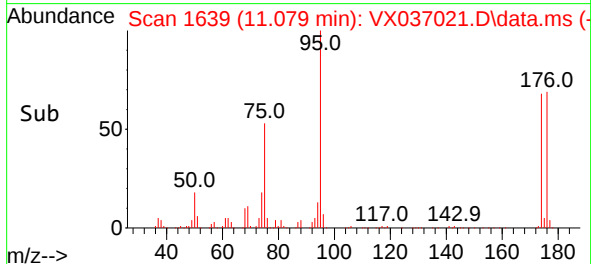
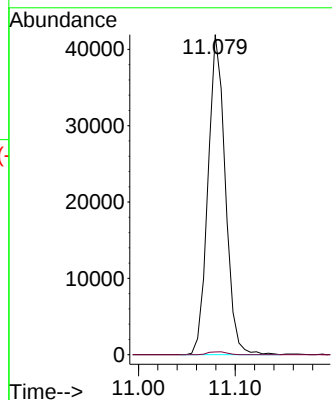
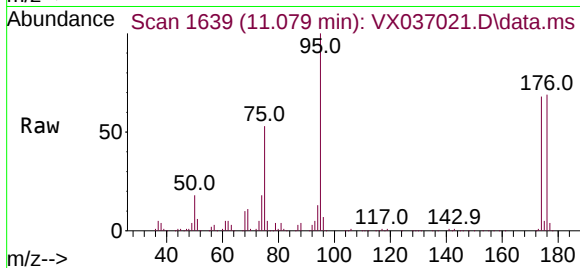
RE114D1-20230815

Tgt Ion: 75 Resp: 52207

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.959 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX037021.D

Acq: 16 Aug 2023 16:36

Tgt Ion: 75 Resp: 52207

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

