

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121619\
 Data File : VX014039.D
 Acq On : 16 Dec 2019 16:47
 Operator : JC/SP
 Sample : K6251-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE139D1-20191206

Quant Time: Dec 17 03:30:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	575687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	903010	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	793186	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	331297	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	324116	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
35) Dibromofluoromethane	5.49	113	262600	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
50) Toluene-d8	8.71	98	1057030	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	11.14	95	350173	44.82	ug/l	0.00
Spiked Amount			Recovery	=	89.64%	

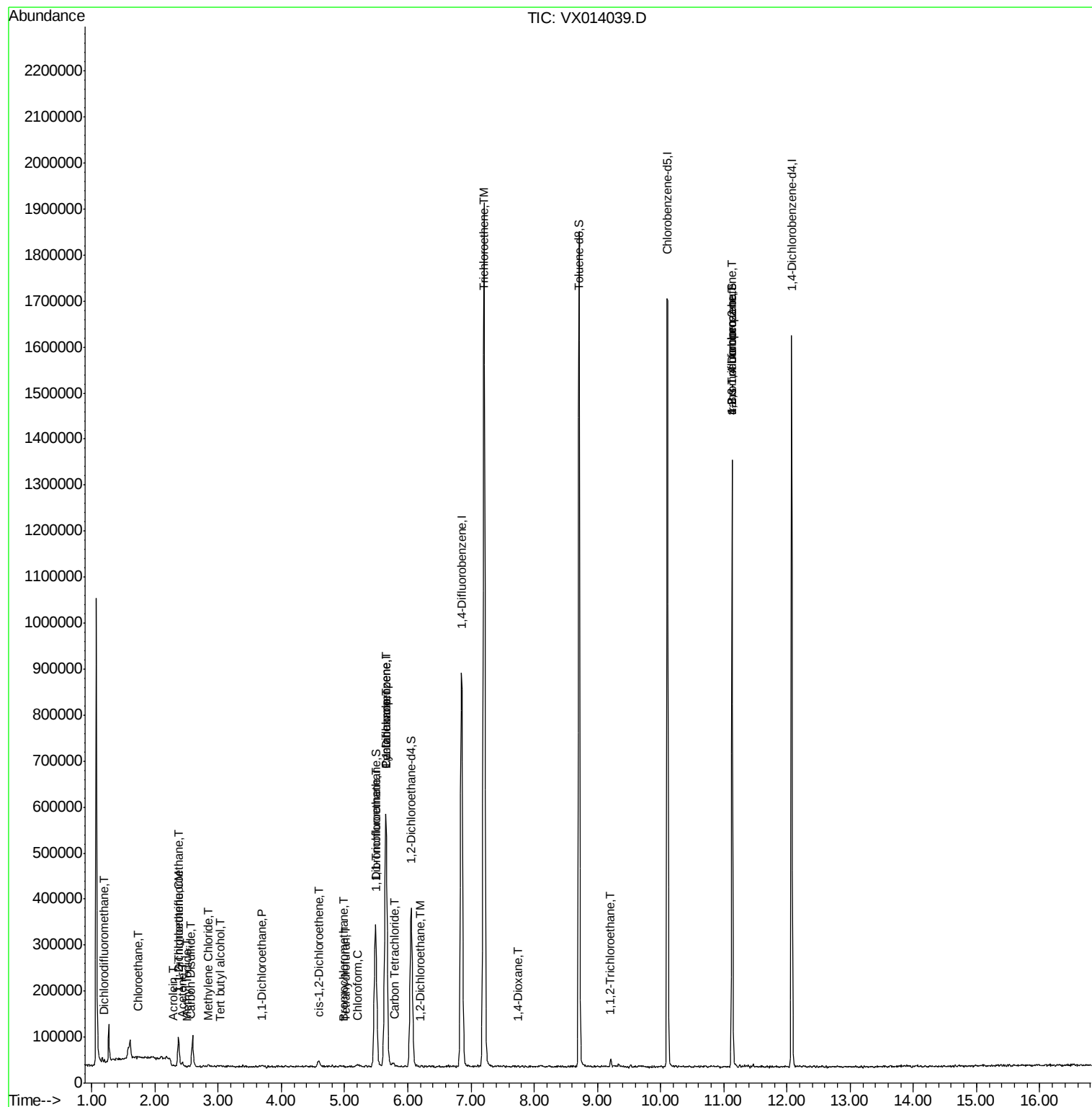
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1240	0.241	ug/l	96
6) Chloroethane	1.72	64	970	0.215	ug/l #	77
9) 1,1,2-Trichlorotrifluoroet	2.38	101	17193	3.159	ug/l	92
10) Methyl Iodide	2.51	142	630	2.704	ug/l #	78
11) Tert butyl alcohol	3.02	59	1937	1.374	ug/l #	93
12) 1,1-Dichloroethene	2.37	96	11969	2.161	ug/l	97
13) Acrolein	2.28	56	200	0.248	ug/l #	1
16) Acetone	2.43	43	9354	2.208	ug/l	99
17) Carbon Disulfide	2.56	76	1187	0.826	ug/l #	78
20) Methylene Chloride	2.84	84	2118	0.318	ug/l #	71
24) 1,1-Dichloroethane	3.69	63	5722	0.522	ug/l #	83
27) cis-1,2-Dichloroethene	4.59	96	9257	1.342	ug/l	84
28) Bromochloromethane	5.00	49	605	0.596	ug/l #	73
29) Tetrahydrofuran	5.00	42	791	0.271	ug/l	93
30) Chloroform	5.20	83	6435	0.619	ug/l #	81
31) Cyclohexane	5.65	56	12807	1.314	ug/l #	11
32) 1,1,1-Trichloroethane	5.50	97	2216	0.250	ug/l #	23
36) 1,1-Dichloropropene	5.65	75	39267	4.739	ug/l #	50
38) Carbon Tetrachloride	5.79	117	6175	0.818	ug/l #	76
42) 1,2-Dichloroethane	6.19	62	2052	0.237	ug/l	89
44) Trichloroethene	7.20	130	748022	106.228	ug/l	99
49) 1,4-Dioxane	7.74	88	964	6.389	ug/l #	54
55) 1,1,2-Trichloroethane	9.21	97	5411	0.838	ug/l #	79
76) 1,2,3-Trichloropropane	11.13	75	172023	23.917	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	172023	67.507	ug/l #	11

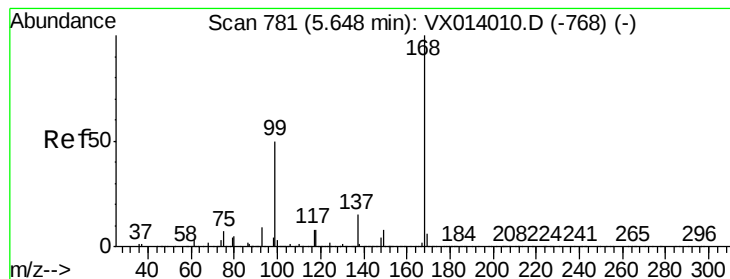
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

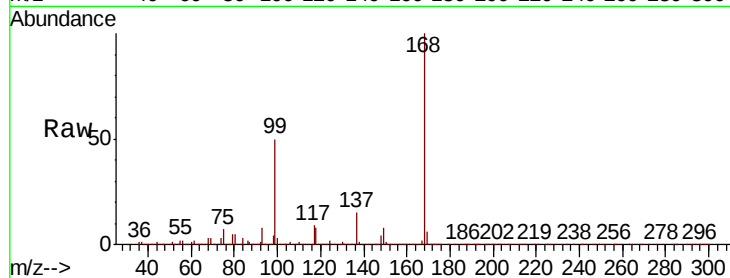
RE139D1-20191206

Tot Ion:168 Resp: 575687

Ion Ratio Lower Upper

168 100

99 50.1 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

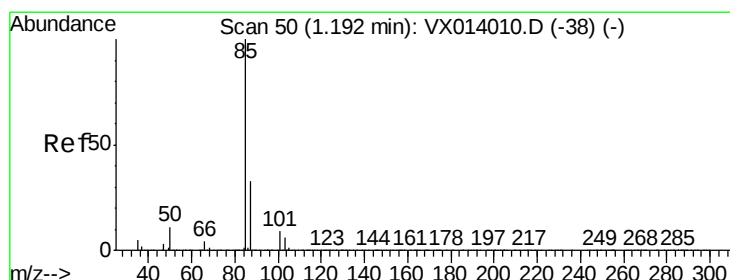
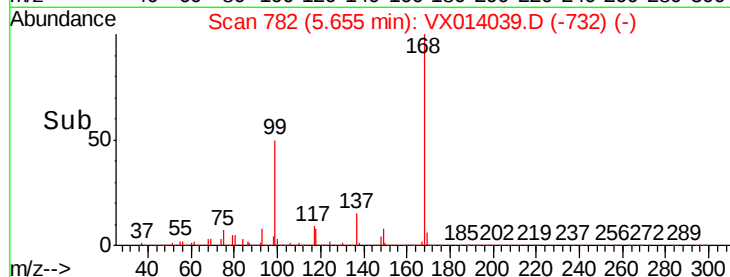
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.241 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014039.D

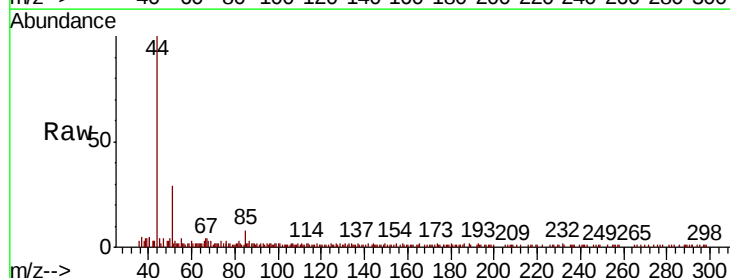
Acq: 16 Dec 2019 16:47

Tgt Ion: 85 Resp: 1240

Ion Ratio Lower Upper

85 100

87 34.9 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

800

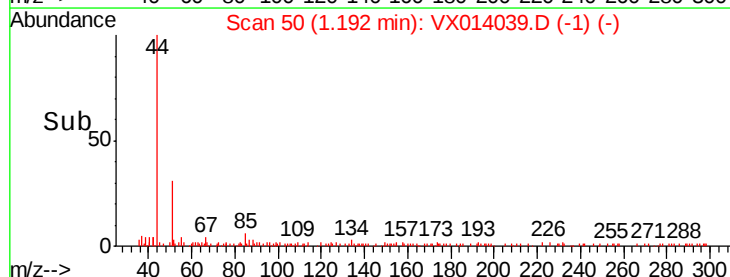
600

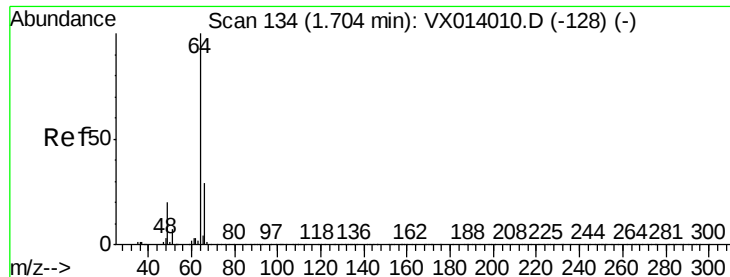
400

200

0

Time-->





#6

Chloroethane

Concen: 0.215 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.02 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

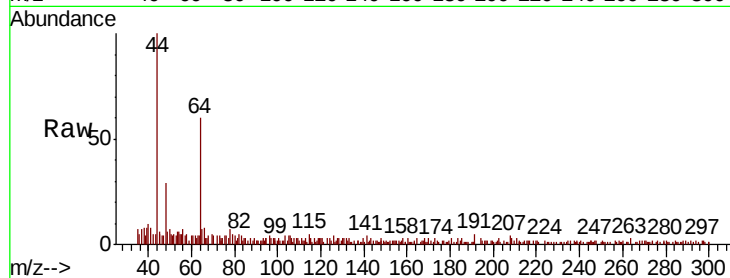
RE139D1-20191206

Tot Ion: 64 Resp: 970

Ion Ratio Lower Upper

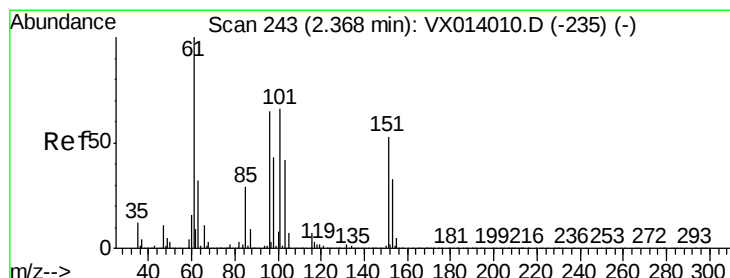
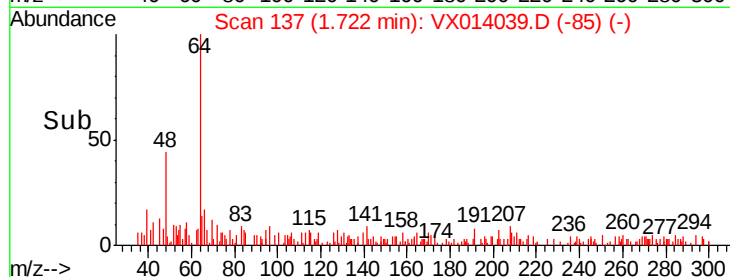
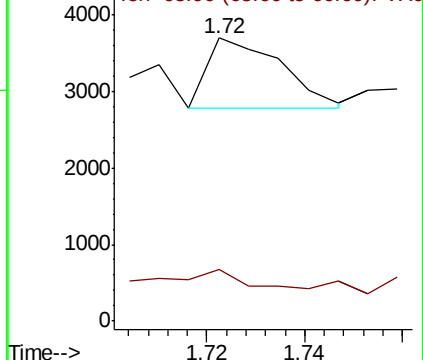
64 100

66 16.7 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.159 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

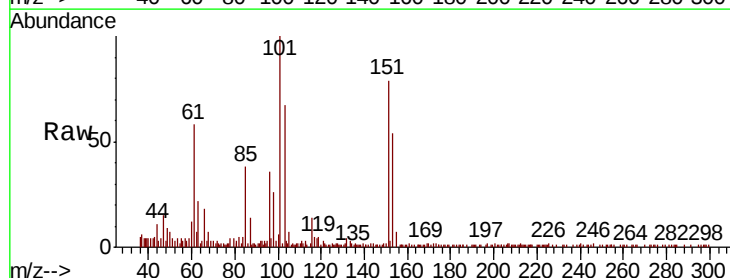
Tgt Ion:101 Resp: 17193

Ion Ratio Lower Upper

101 100

85 48.0 33.7 50.5

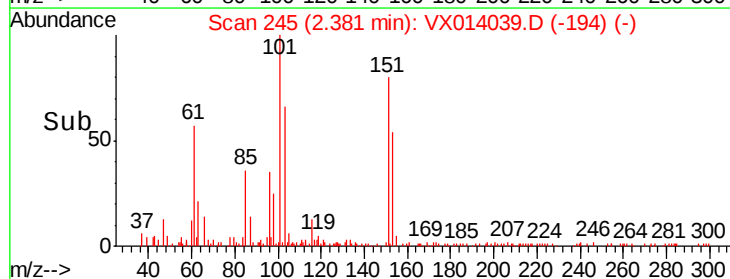
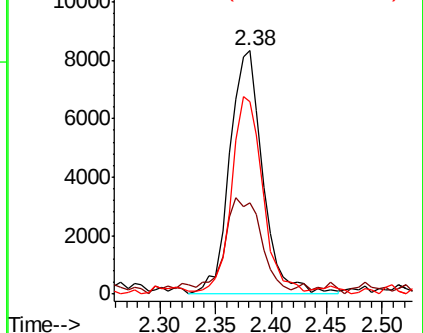
151 74.6 64.5 96.7

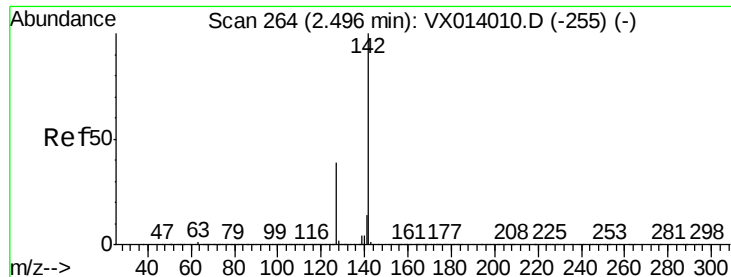


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

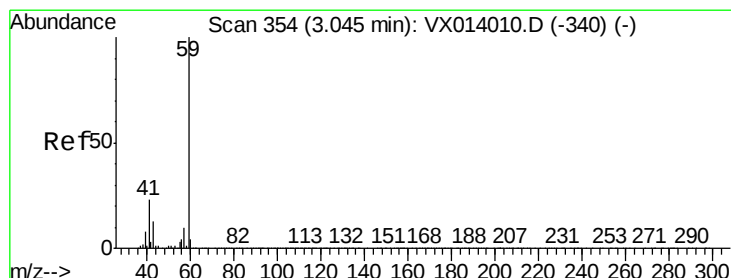
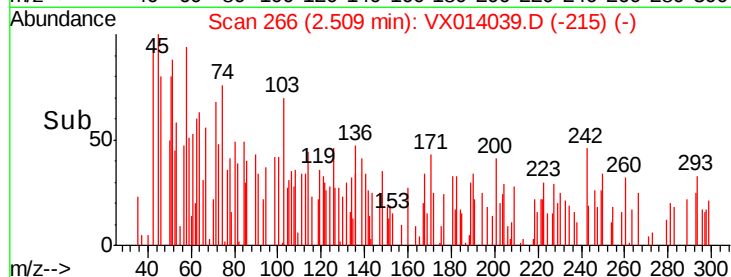
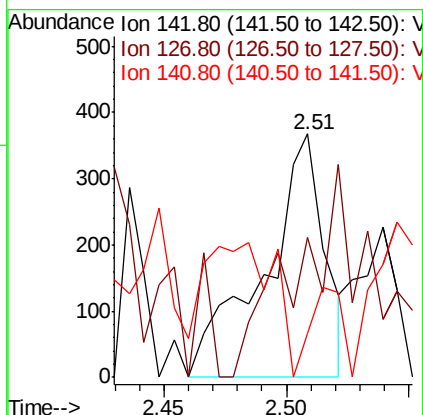
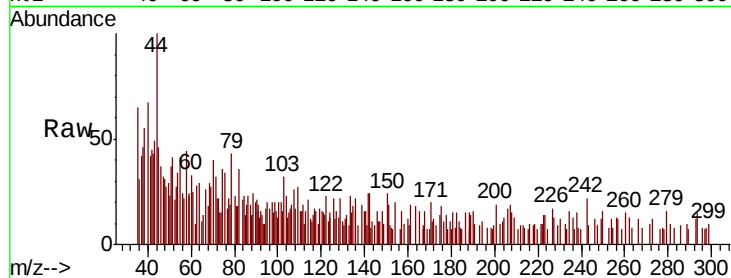




#10
Methyl Iodide
Concen: 2.704 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

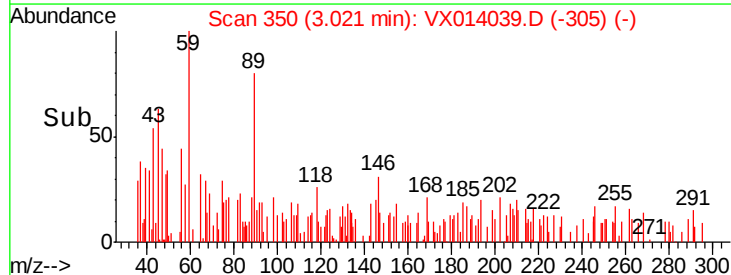
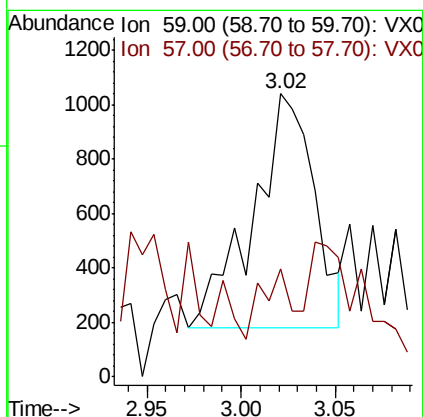
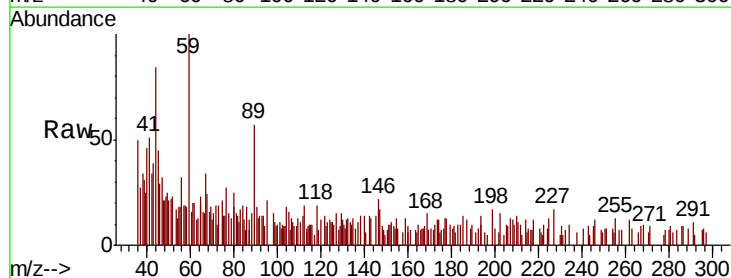
Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20191206

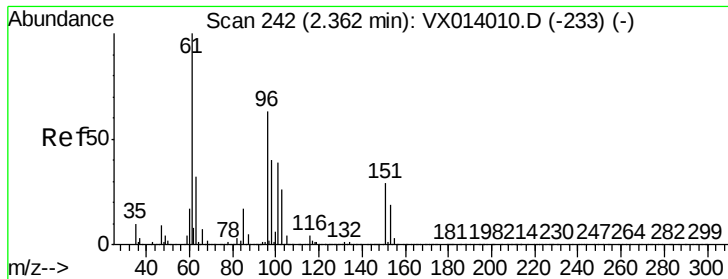
Tot Ion:142 Resp: 630
Ion Ratio Lower Upper
142 100
127 55.4 31.6 47.4#
141 19.2 11.6 17.4#



#11
Tert butyl alcohol
Concen: 1.374 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

Tgt Ion: 59 Resp: 1937
Ion Ratio Lower Upper
59 100
57 13.3 8.4 12.6#





#12

1,1-Dichloroethene

Concen: 2.161 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

RE139D1-20191206

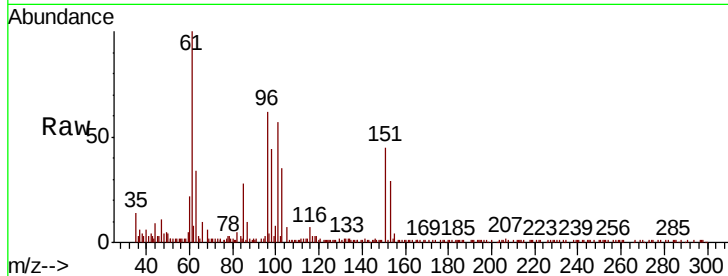
Tot Ion: 96 Resp: 11969

Ion Ratio Lower Upper

96 100

61 161.5 127.9 191.9

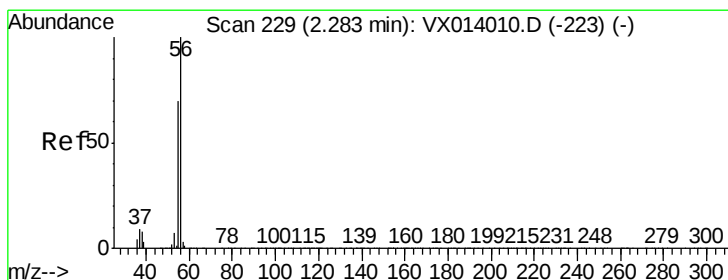
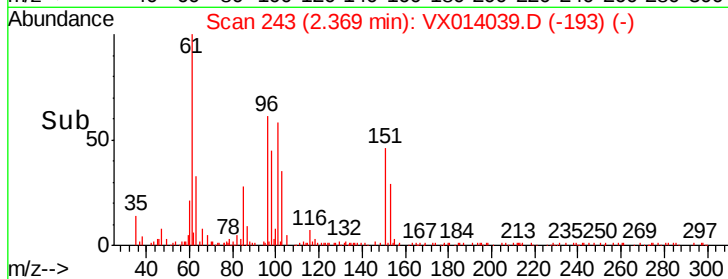
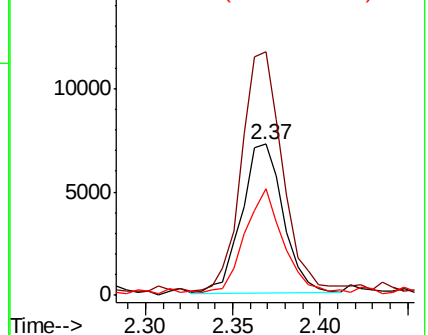
98 69.3 50.5 75.7



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.248 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014039.D

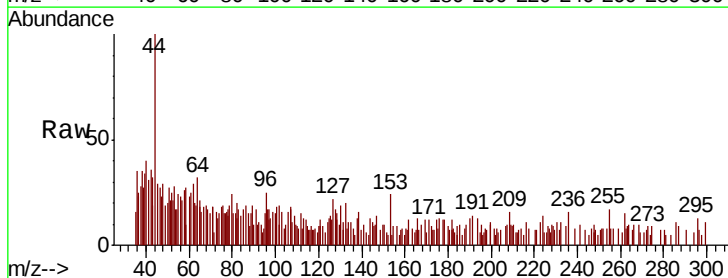
Acq: 16 Dec 2019 16:47

Tgt Ion: 56 Resp: 200

Ion Ratio Lower Upper

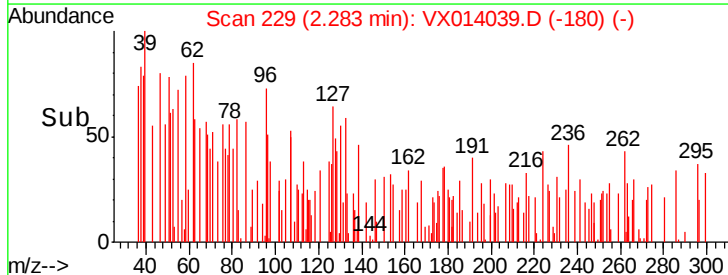
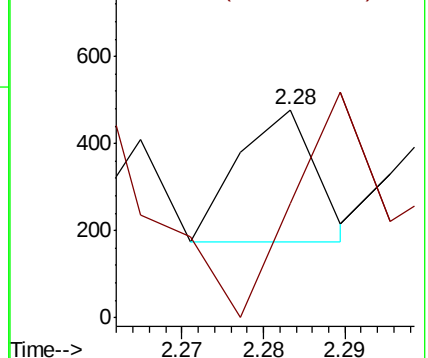
56 100

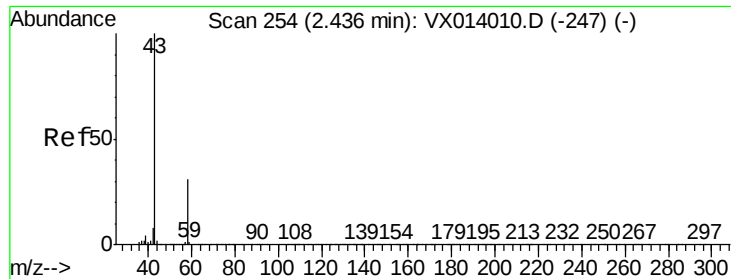
55 237.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

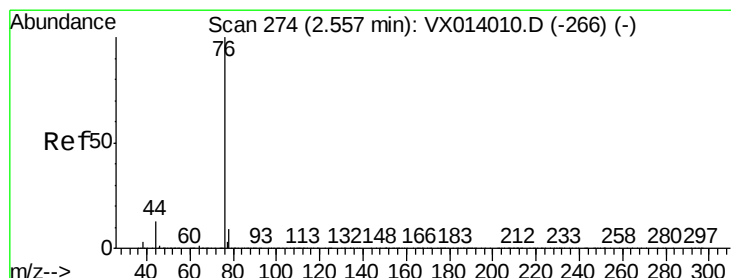
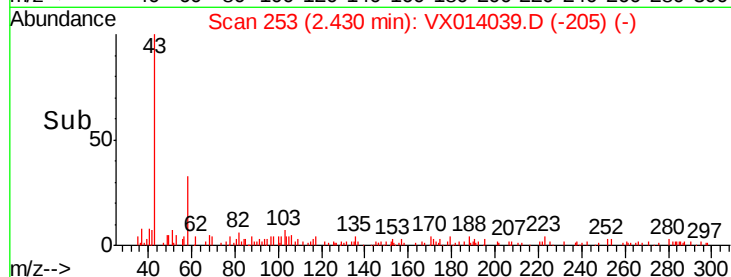
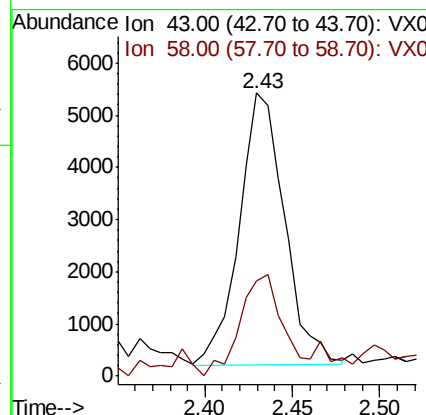
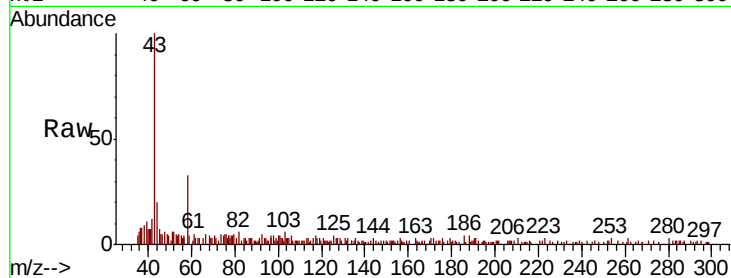




#16
Acetone
Concen: 2.208 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

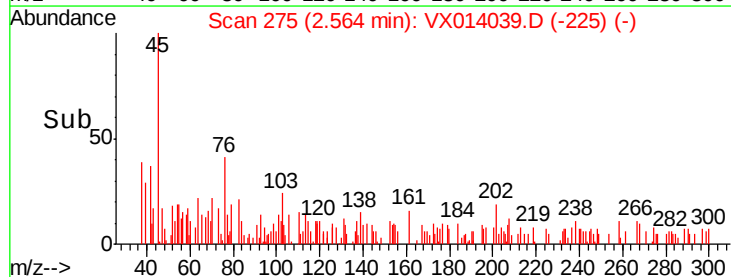
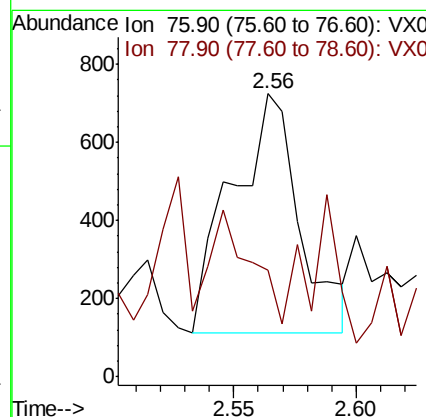
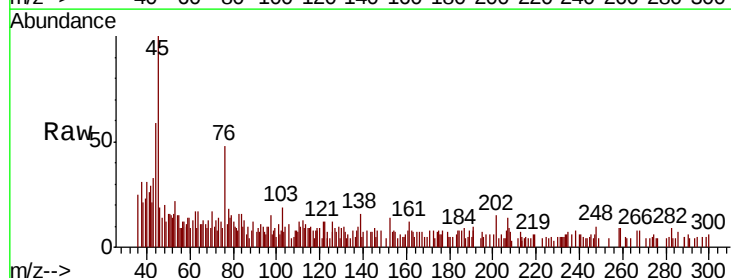
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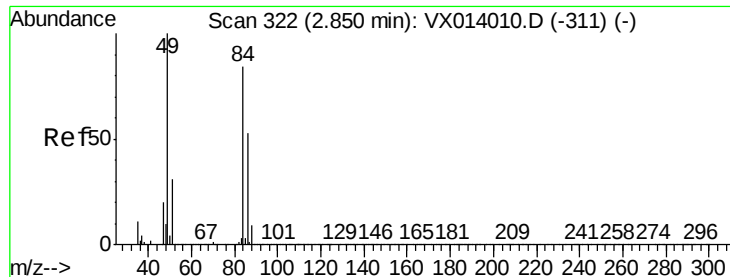
Tot Ion: 43 Resp: 9354
Ion Ratio Lower Upper
43 100
58 30.5 24.9 37.3



#17
Carbon Disulfide
Concen: 0.826 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

Tgt Ion: 76 Resp: 1187
Ion Ratio Lower Upper
76 100
78 16.8 7.2 10.8#

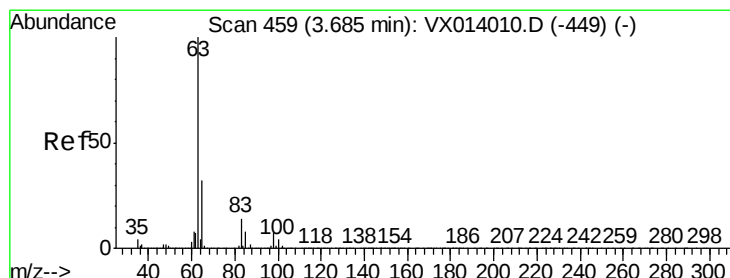
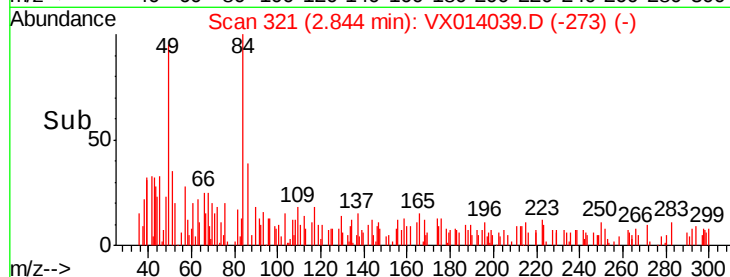
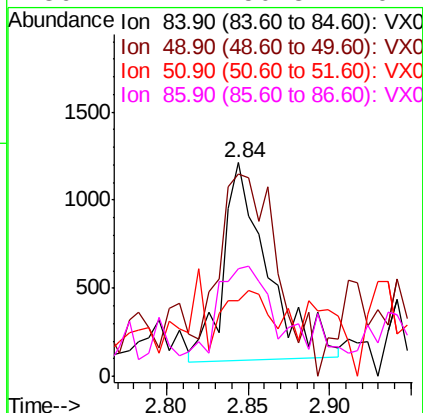
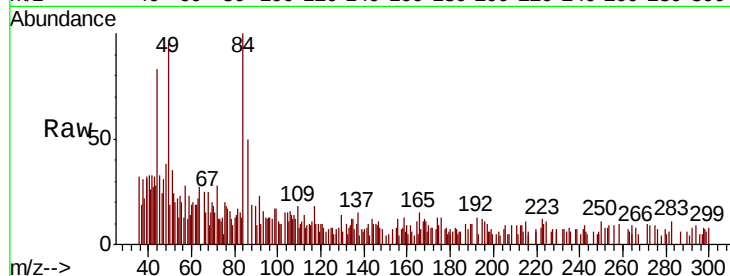




#20
Methvlene Chloride
Concen: 0.318 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

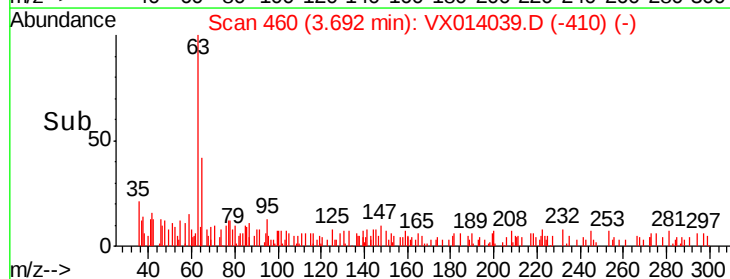
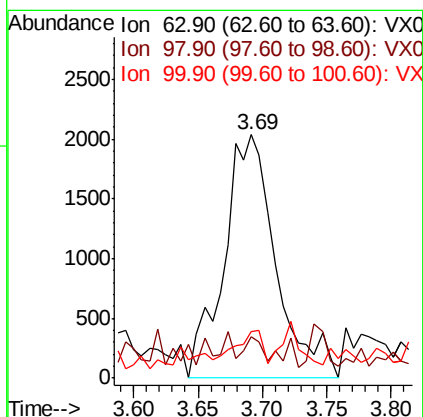
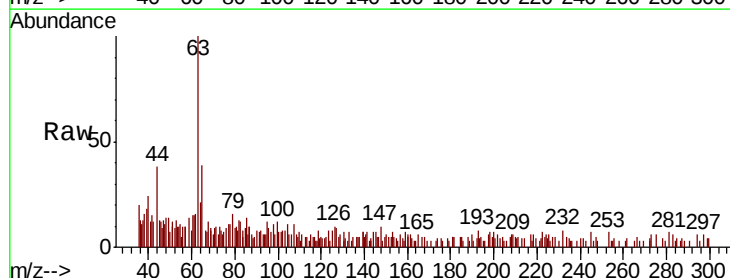
Instrument :
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ClientSampleId :
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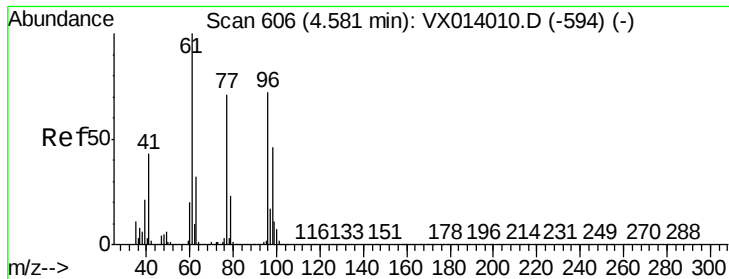
Tot Ion:	84	Resp:	2118
Ion	Ratio	Lower	Upper
84	100		
49	88.0	95.8	143.6#
51	16.5	29.8	44.8#
86	44.1	50.8	76.2#



#24
1,1-Dichloroethane
Concen: 0.522 ug/l
RT: 3.69 min Scan# 460
Delta R.T. 0.01 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

Tgt Ion:	63	Resp:	5722
Ion	Ratio	Lower	Upper
63	100		
98	12.3	3.6	10.8#
100	11.6	2.3	6.8#



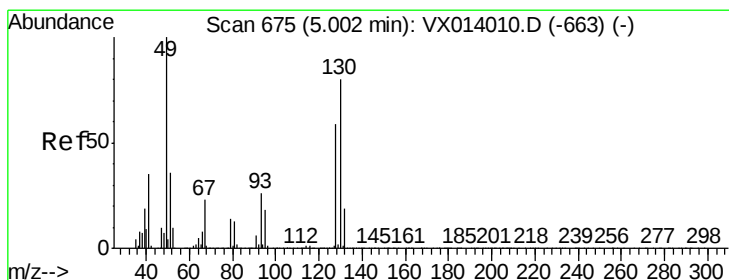
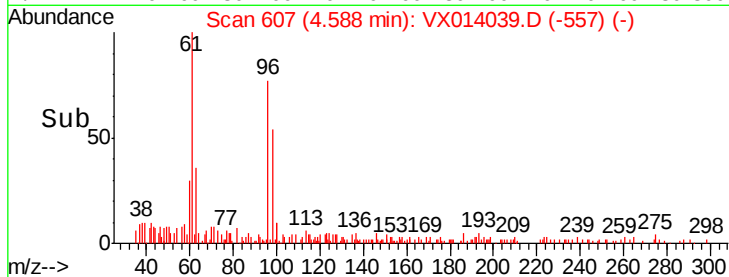
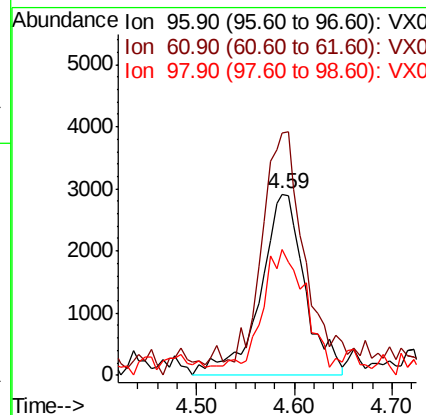
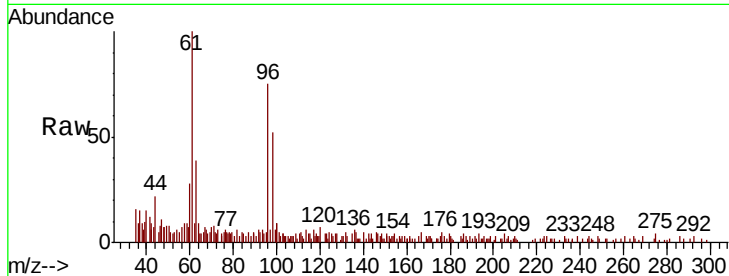


#27

cis-1,2-Dichloroethene
Concen: 1.342 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20191206

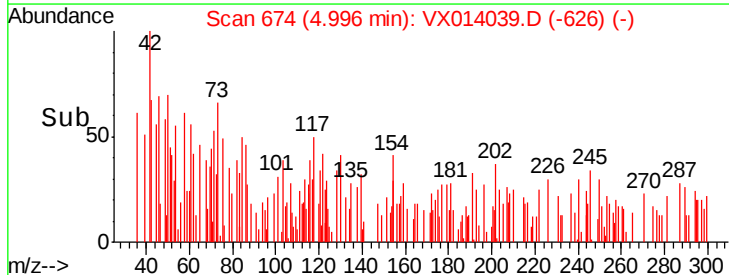
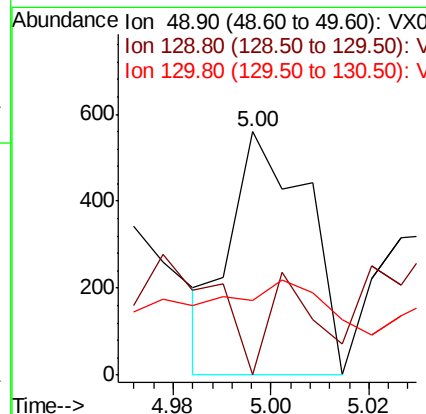
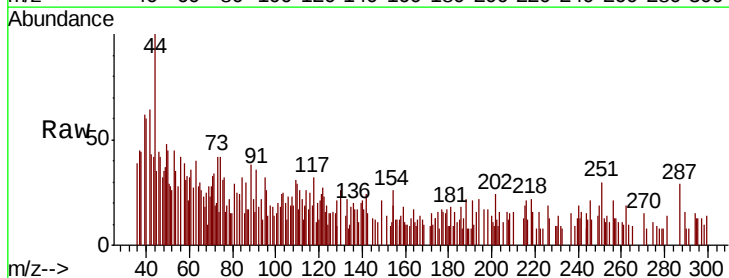
Tot Ion	Ratio	Lower	Upper
96	100		
61	117.1	0.0	288.4
98	66.4	0.0	129.6

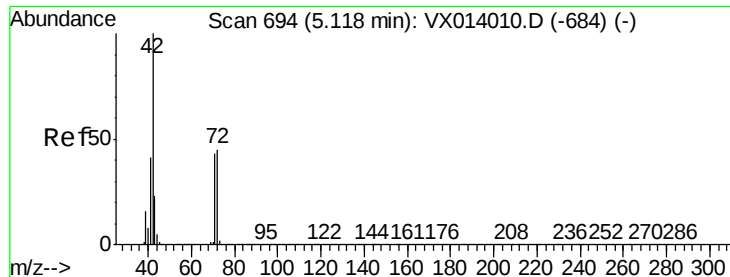


#28

Bromochloromethane
Concen: 0.596 ug/l
RT: 5.00 min Scan# 674
Delta R.T. -0.01 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

Tgt Ion	Ratio	Lower	Upper
49	100		
129	26.3	0.0	5.0#
130	104.0	64.6	97.0#





#29

Tetrahydrofuran

Concen: 0.271 ug/l

RT: 5.00 min Scan# 675

Delta R.T. -0.12 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

RE139D1-20191206

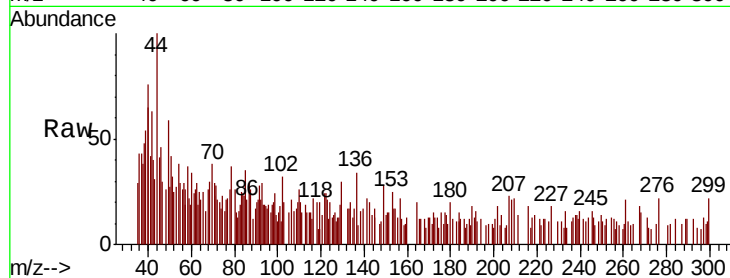
Tot Ion: 42 Resp: 791

Ion Ratio Lower Upper

42 100

72 44.4 35.8 53.8

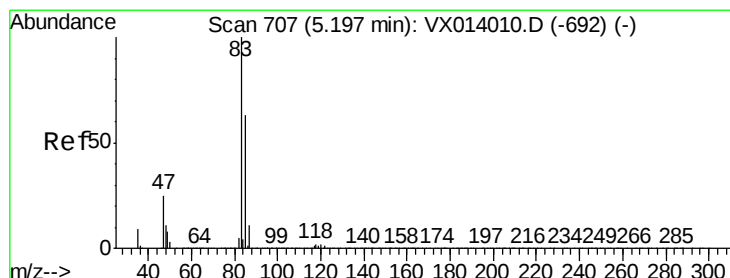
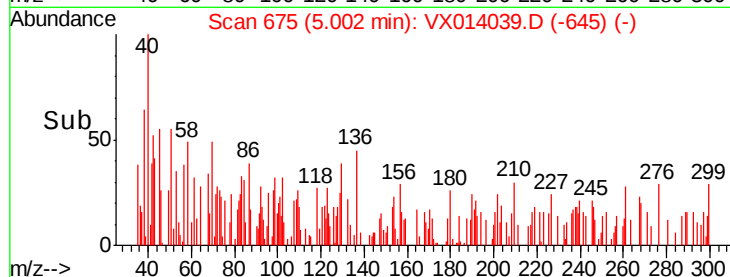
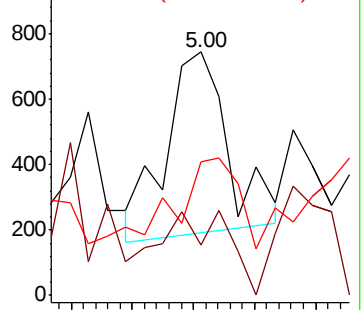
71 50.1 33.6 50.4



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.619 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX014039.D

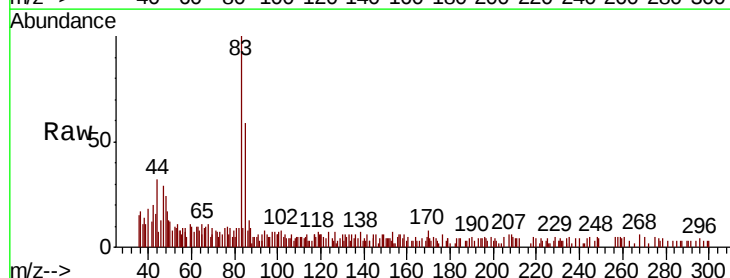
Acq: 16 Dec 2019 16:47

Tgt Ion: 83 Resp: 6435

Ion Ratio Lower Upper

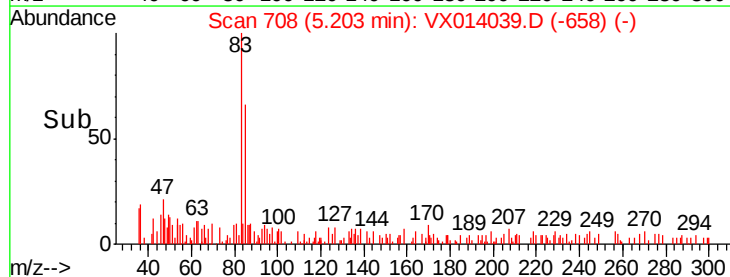
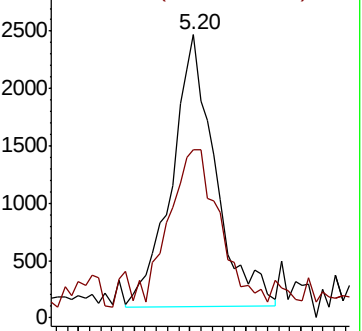
83 100

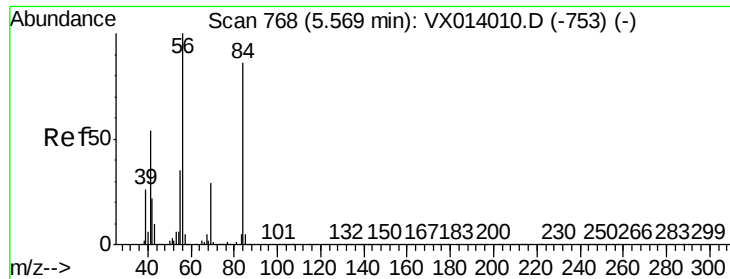
85 48.3 50.8 76.2#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

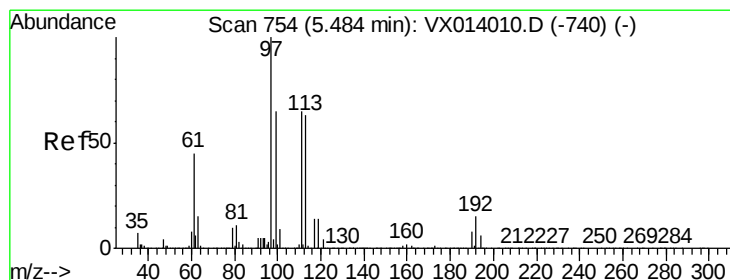
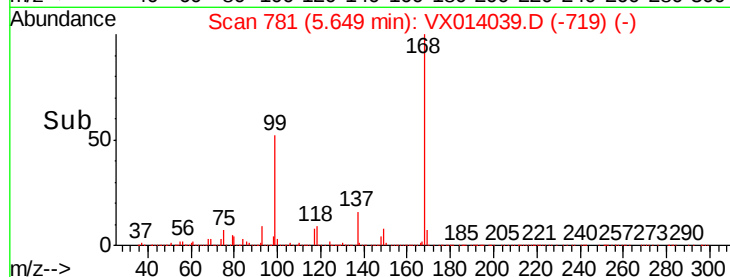
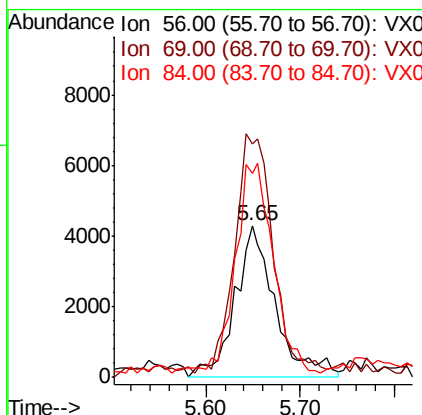
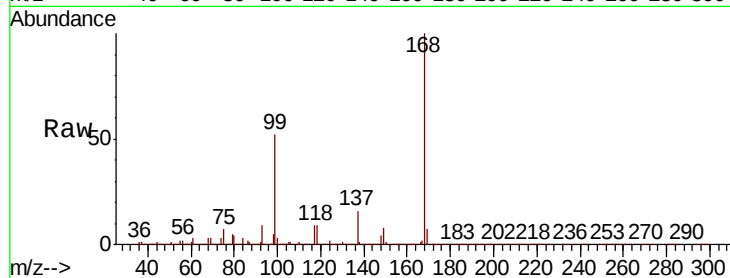




#31
Cyclohexane
Concen: 1.314 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

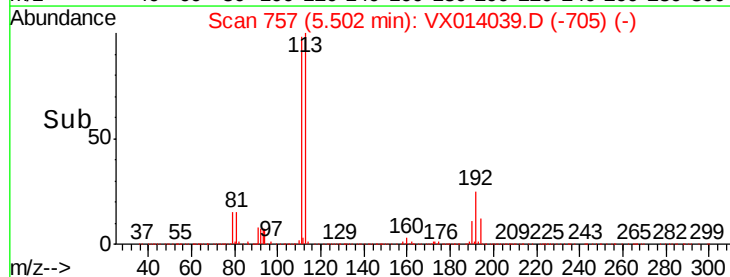
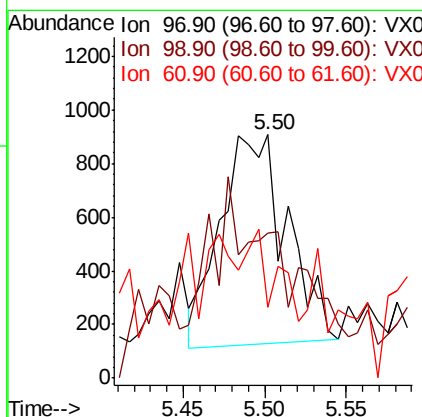
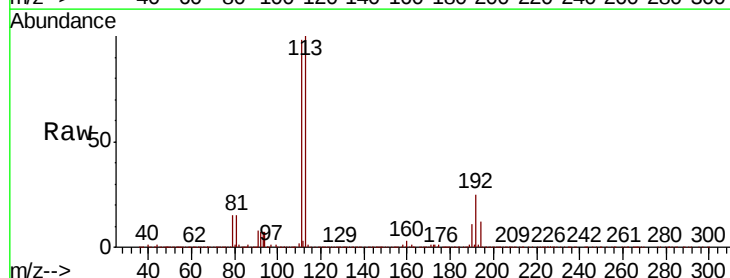
Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20191206

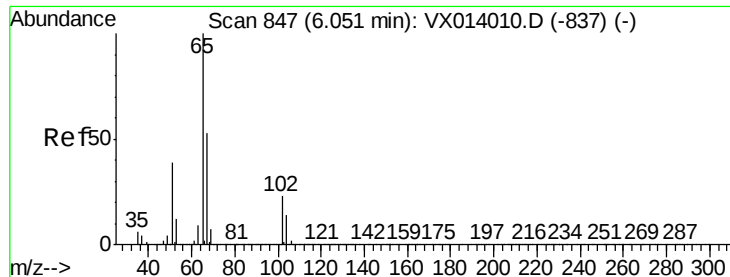
Tot Ion: 56 Resp: 12807
Ion Ratio Lower Upper
56 100
69 146.8 23.2 34.8#
84 128.4 69.2 103.8#



#32
1,1,1-Trichloroethane
Concen: 0.250 ug/l
RT: 5.50 min Scan# 757
Delta R.T. 0.02 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

Tgt Ion: 97 Resp: 2216
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0#
61 0.0 36.7 55.1#





#33

1,2-Dichloroethane-d4

Concen: 49.676 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

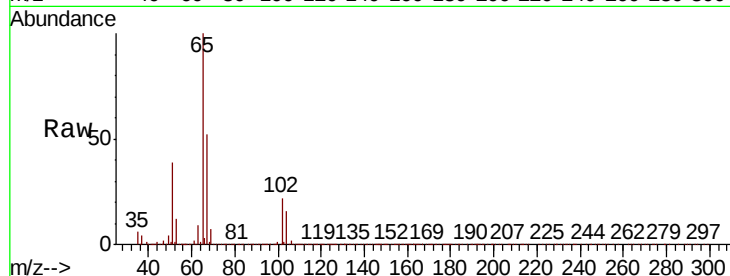
RE139D1-20191206

Tot Ion: 65 Resp: 324116

Ion Ratio Lower Upper

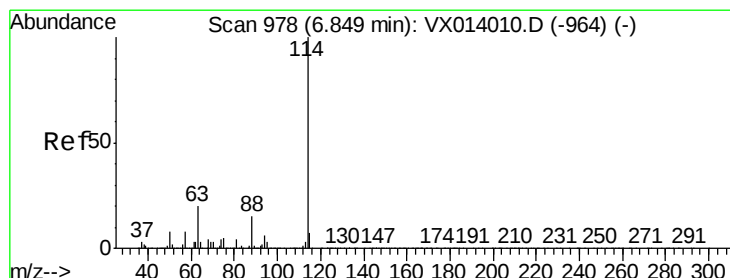
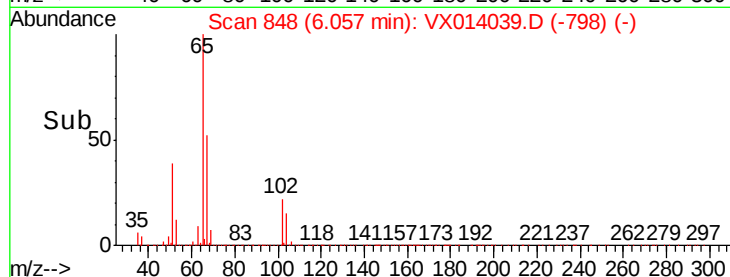
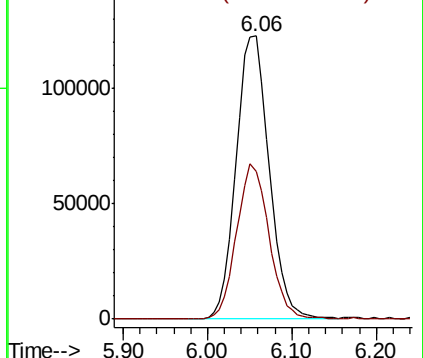
65 100

67 54.1 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

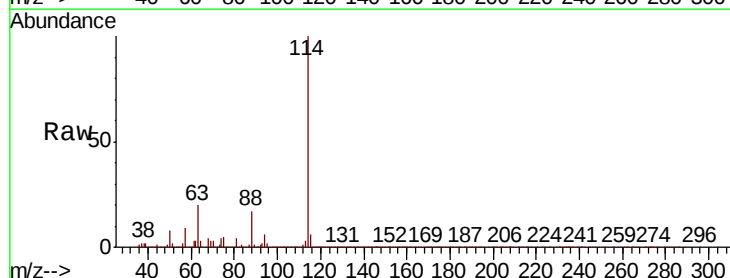
Tgt Ion: 114 Resp: 903010

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

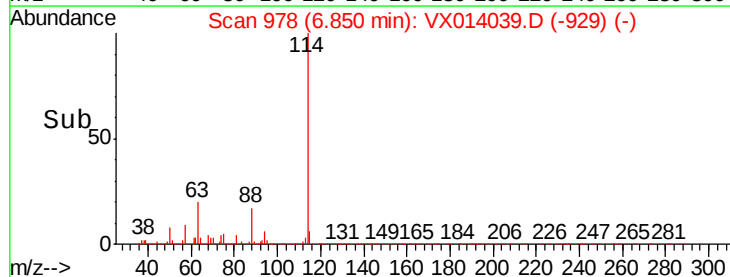
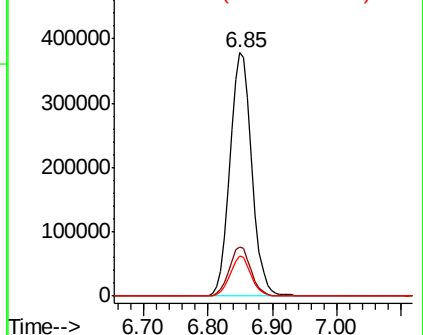
88 16.7 0.0 30.4

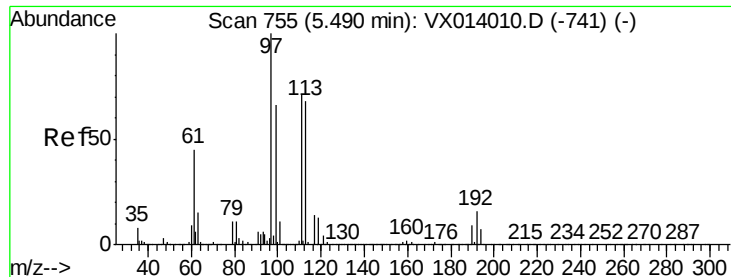


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

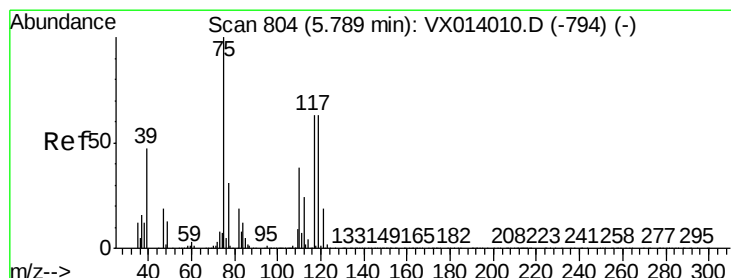
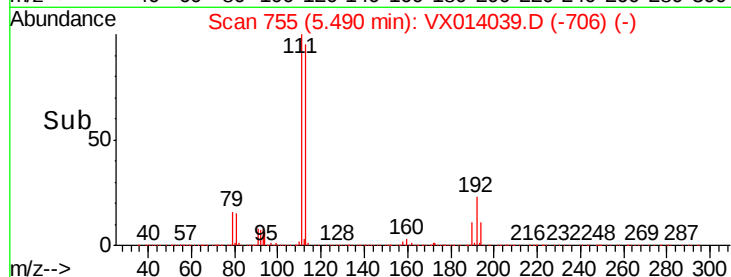
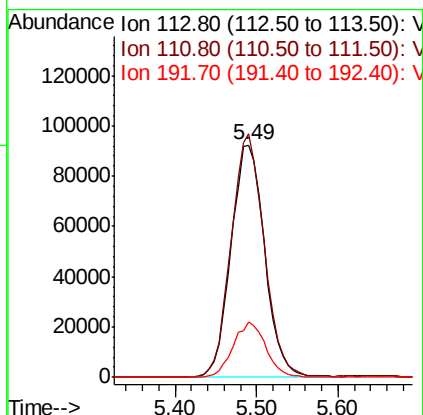
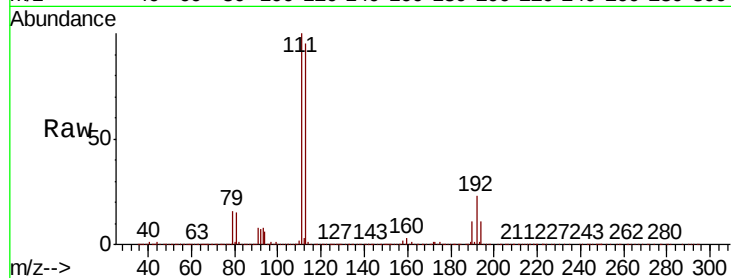




#35
 Dibromofluoromethane
 Concen: 47.838 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX014039.D
 Acq: 16 Dec 2019 16:47

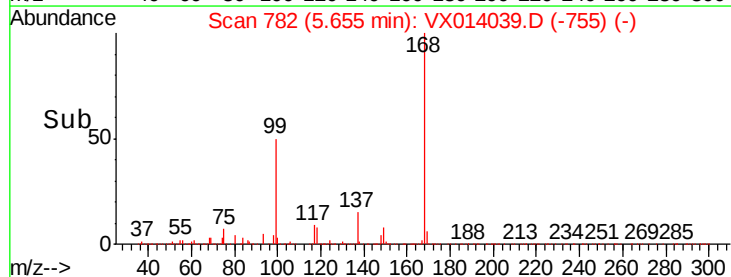
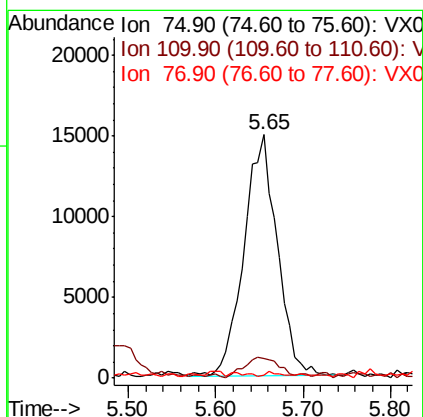
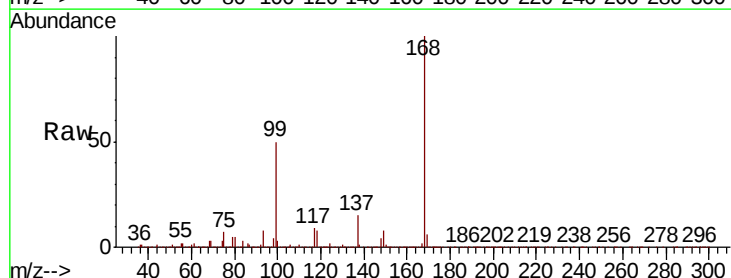
Instrument :
 MSVOA_X
 ClientSampleId :
 RE139D1-20191206

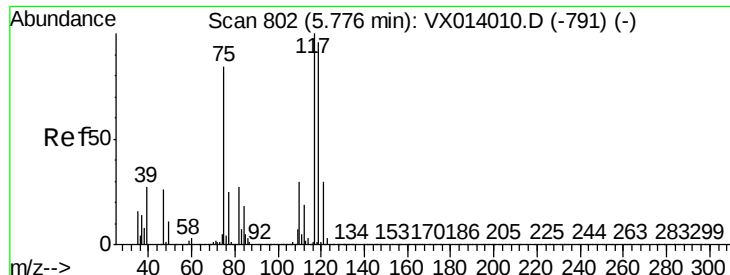
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.0	123.0
192	23.5	19.3	28.9



#36
 1,1-Dichloropropene
 Concen: 4.739 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014039.D
 Acq: 16 Dec 2019 16:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.3	54.9#
77	0.8	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 0.818 ug/l

RT: 5.79 min Scan# 804

Delta R.T. 0.01 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

RE139D1-20191206

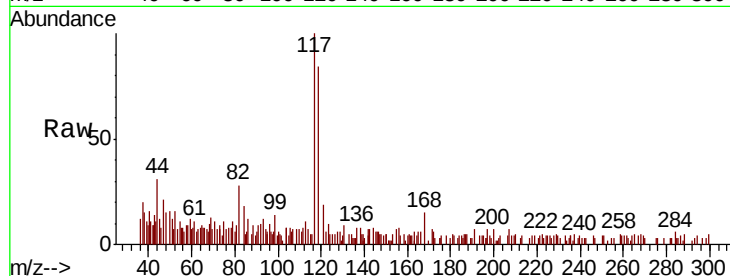
Tot Ion:117 Resp: 6175

Ion Ratio Lower Upper

117 100

119 76.2 76.2 114.4#

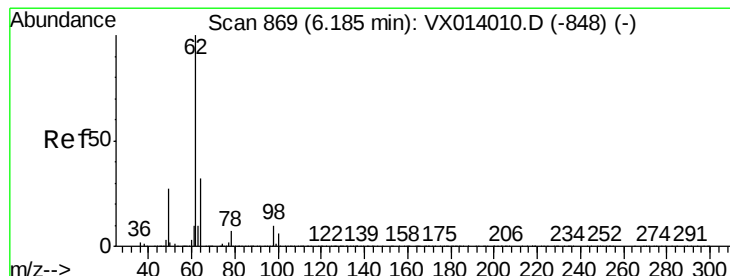
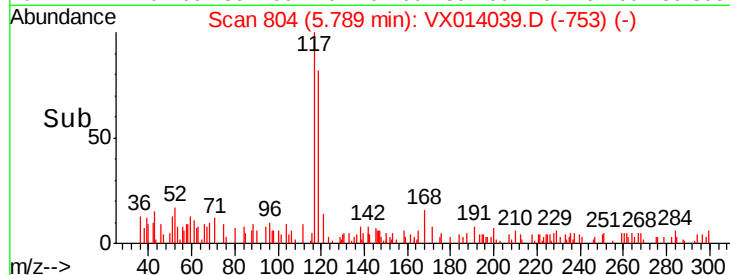
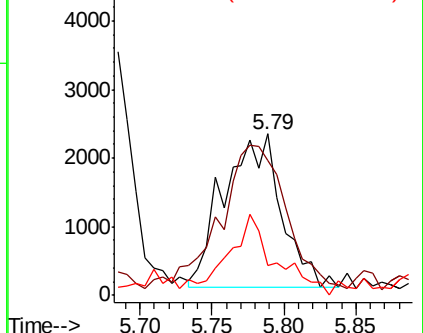
121 9.9 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#42

1,2-Dichloroethane

Concen: 0.237 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX014039.D

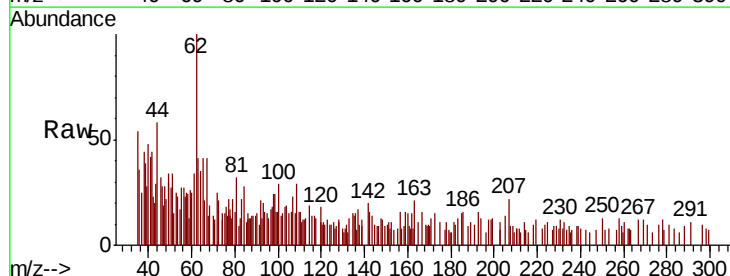
Acq: 16 Dec 2019 16:47

Tgt Ion: 62 Resp: 2052

Ion Ratio Lower Upper

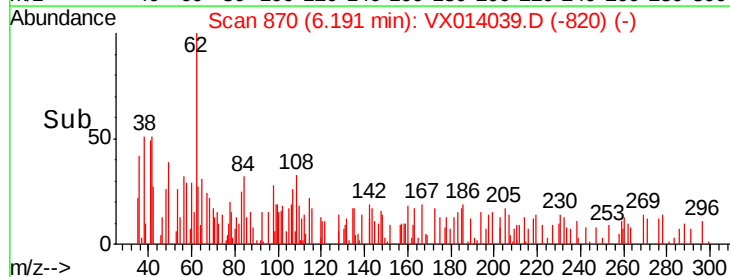
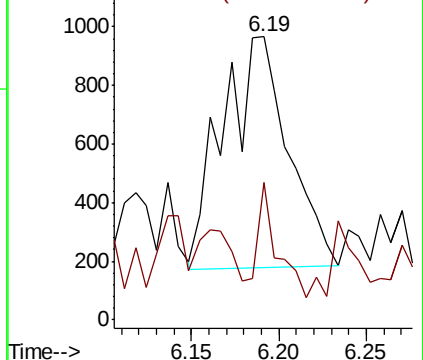
62 100

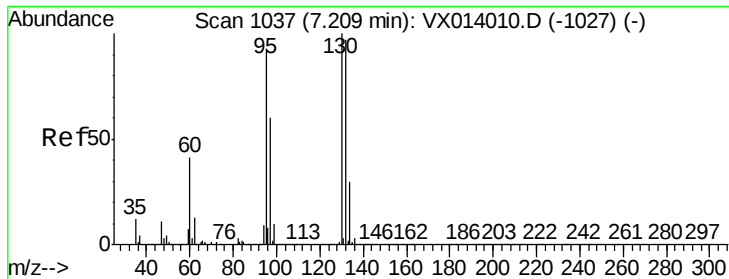
98 14.5 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 106.228 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

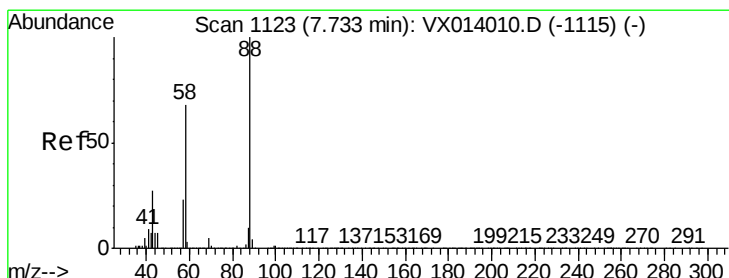
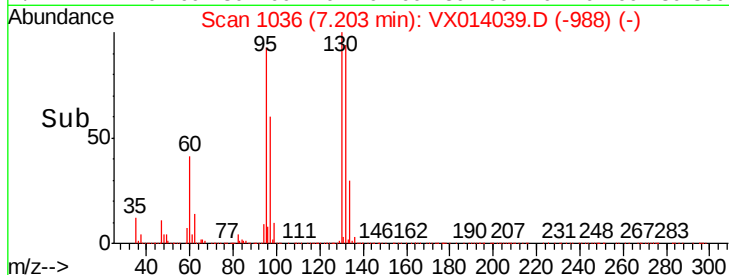
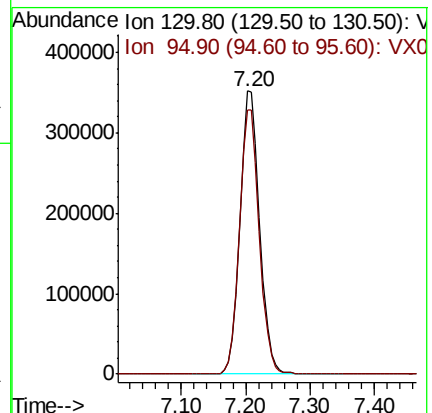
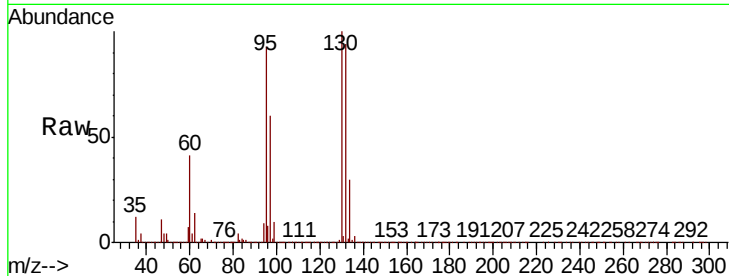
RE139D1-20191206

Tot Ion:130 Resp: 748022

Ion Ratio Lower Upper

130 100

95 93.4 0.0 185.6



#49

1,4-Dioxane

Concen: 6.389 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

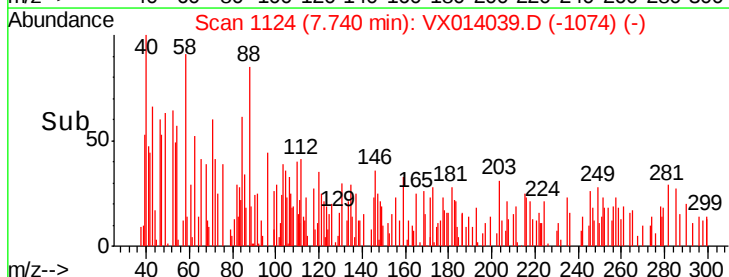
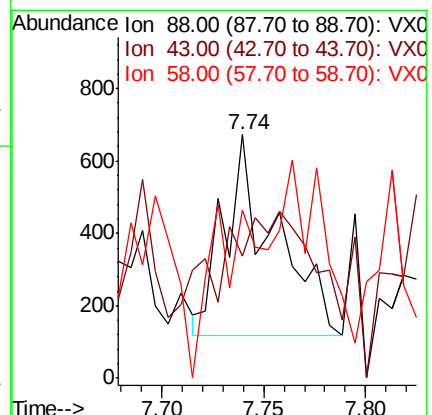
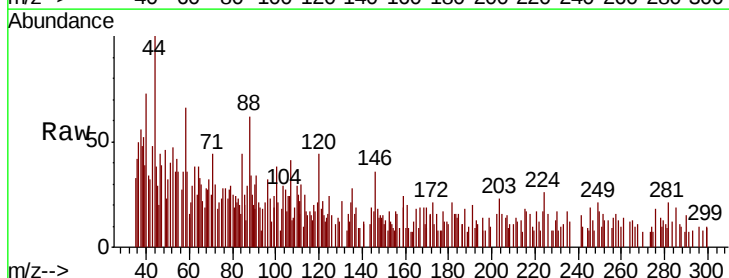
Tgt Ion: 88 Resp: 964

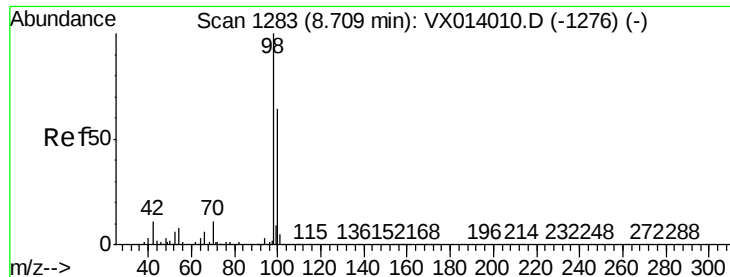
Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 38.1 56.8 85.2#





#50

Toluene-d8

Concen: 49.460 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

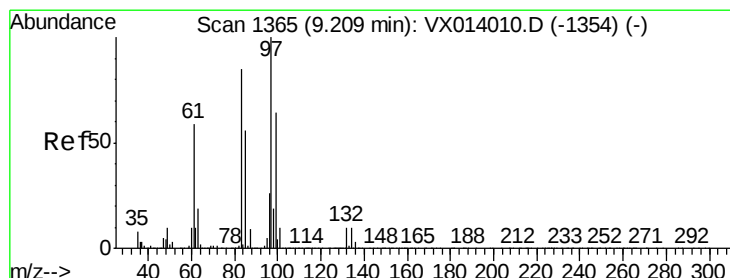
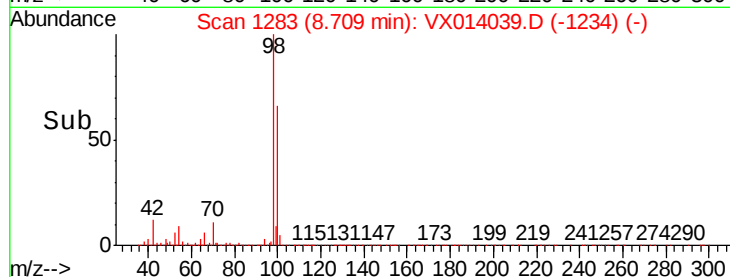
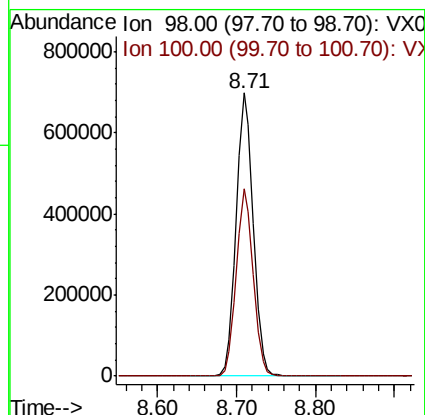
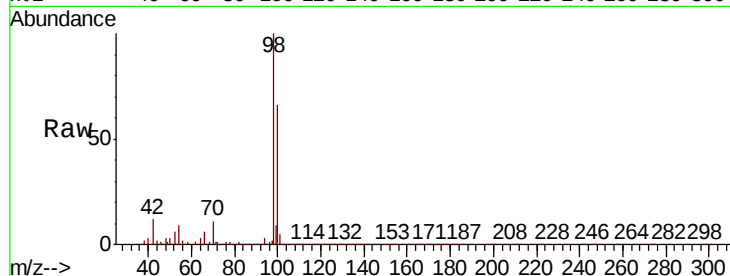
RE139D1-20191206

Tot Ion: 98 Resp: 1057030

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#55

1,1,2-Trichloroethane

Concen: 0.838 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Tgt Ion: 97 Resp: 5411

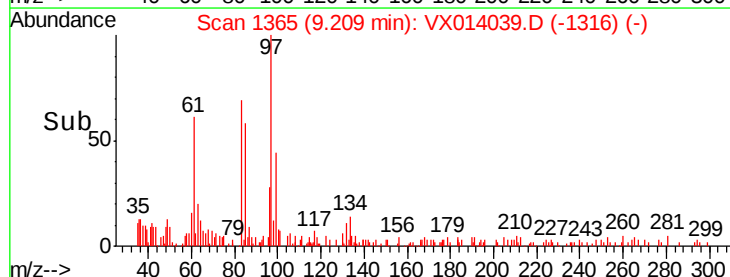
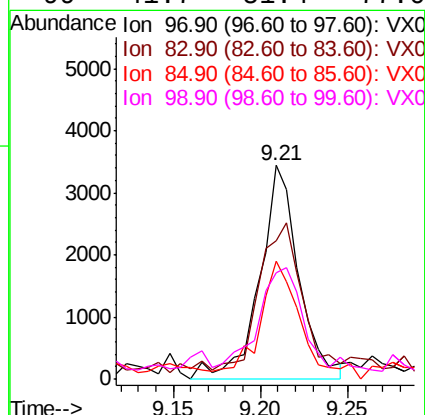
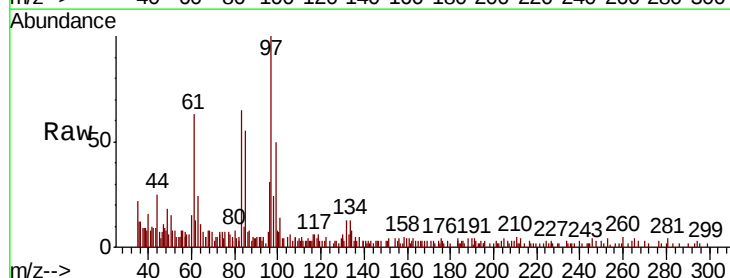
Ion Ratio Lower Upper

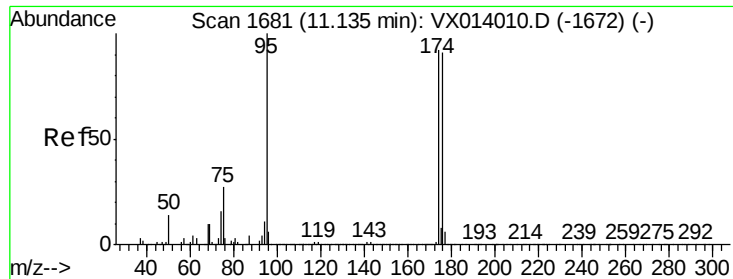
97 100

83 60.8 68.2 102.4#

85 52.5 44.6 66.8

99 41.7 51.4 77.0#

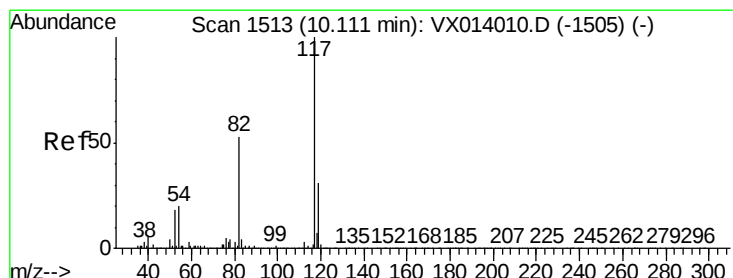
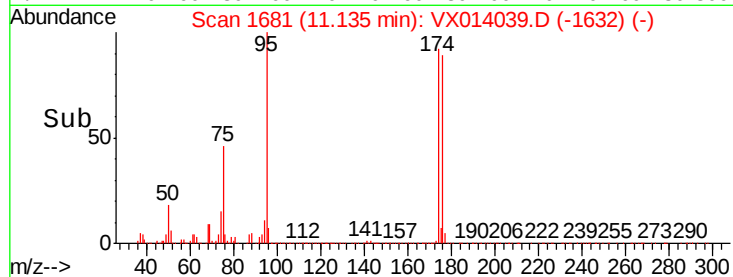
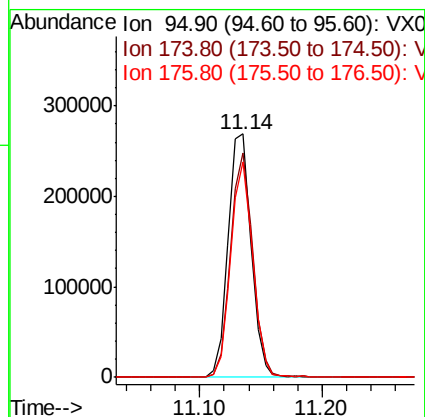
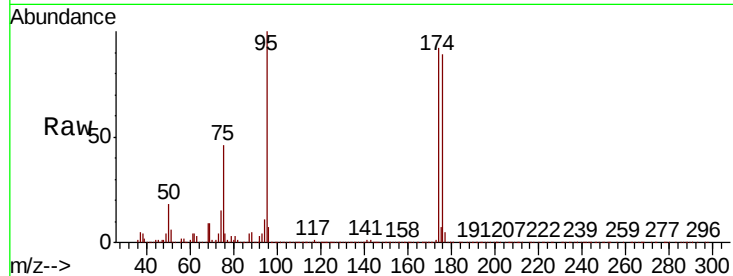




#62
4-Bromofluorobenzene
Concen: 44.824 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

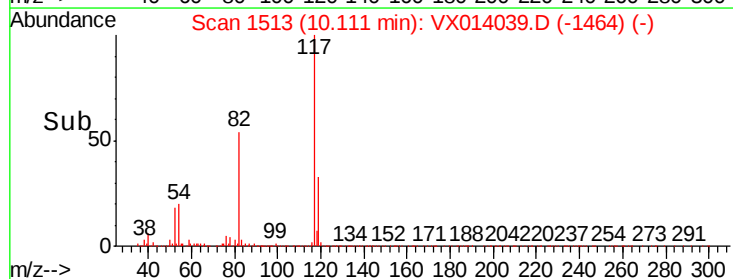
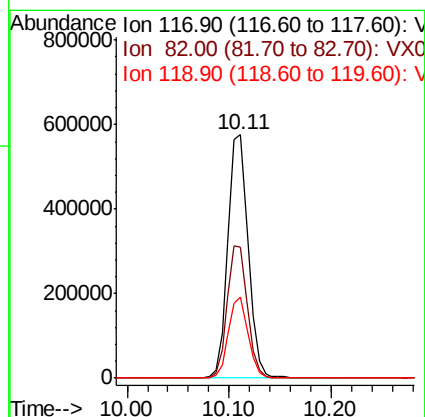
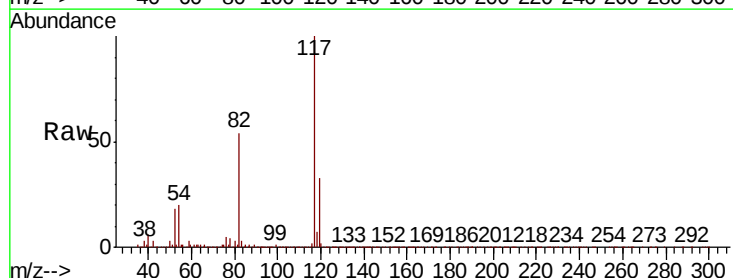
Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20191206

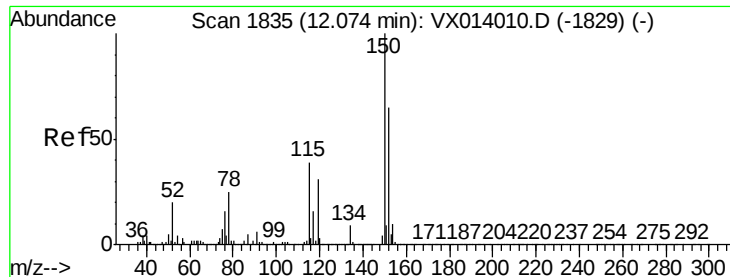
Tot Ion: 95 Resp: 350173
Ion Ratio Lower Upper
95 100
174 88.6 0.0 175.8
176 84.4 0.0 173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014039.D
Acq: 16 Dec 2019 16:47

Tgt Ion: 117 Resp: 793186
Ion Ratio Lower Upper
117 100
82 53.8 42.2 63.4
119 33.1 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

RE139D1-20191206

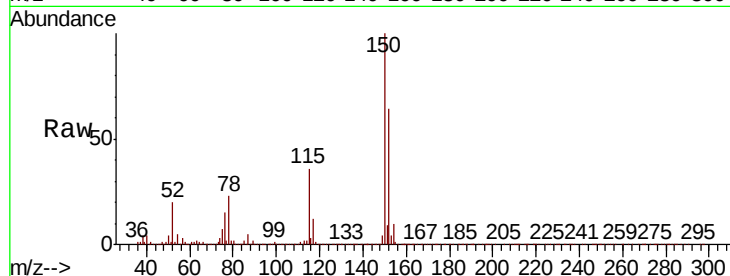
Tot Ion:152 Resp: 331297

Ion Ratio Lower Upper

152 100

115 56.2 38.3 114.9

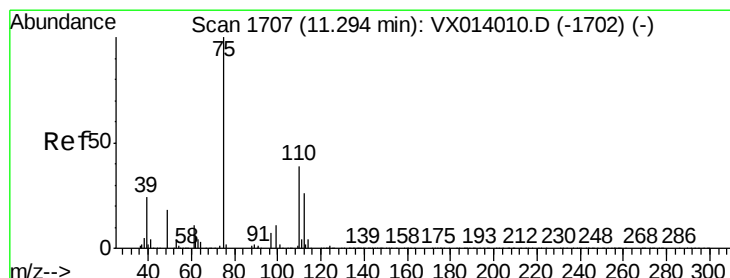
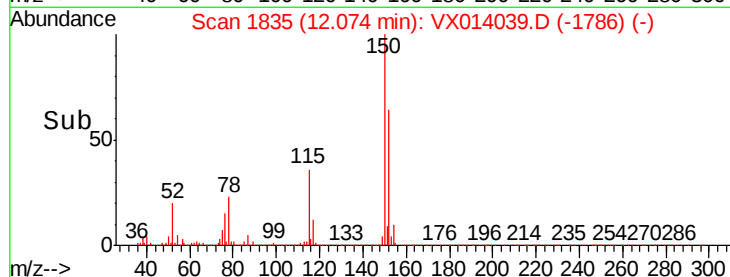
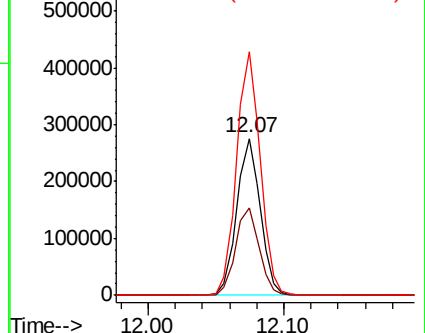
150 157.2 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.917 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014039.D

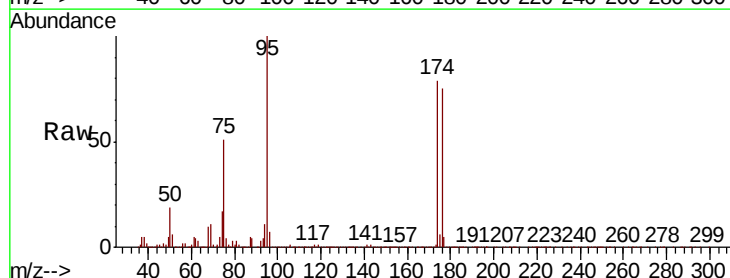
Acq: 16 Dec 2019 16:47

Tgt Ion: 75 Resp: 172023

Ion Ratio Lower Upper

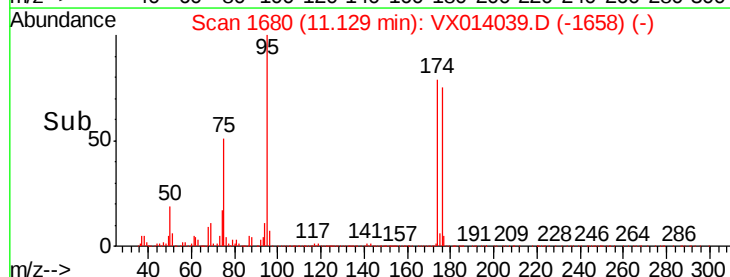
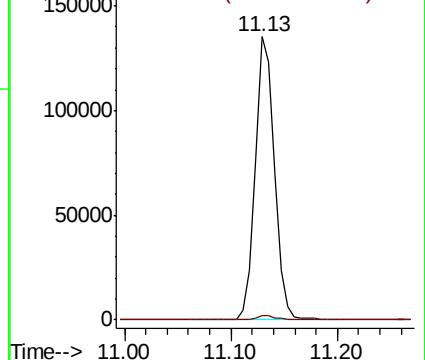
75 100

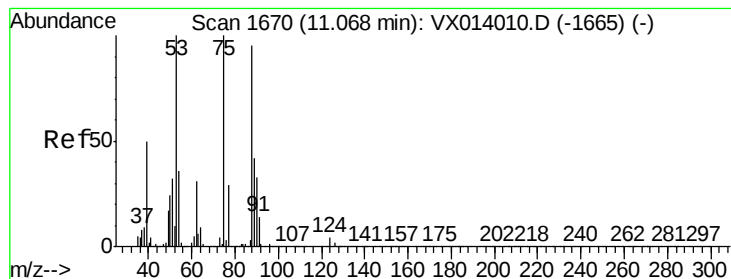
77 1.6 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.507 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014039.D

Acq: 16 Dec 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

RE139D1-20191206

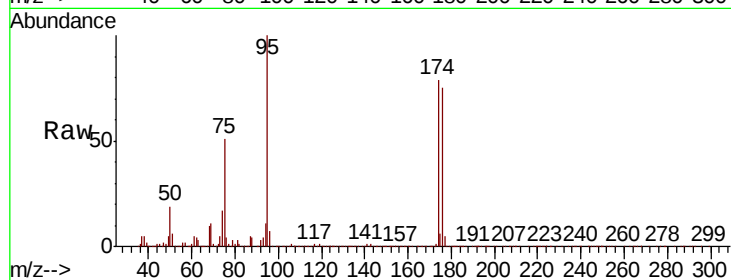
Tot Ion: 75 Resp: 172023

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.2 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

