

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013816.D
 Acq On : 06 Dec 2019 22:28
 Operator : JC/SP
 Sample : K6185-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-20191205

Quant Time: Dec 07 02:44:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	607949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	937269	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	814678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	344406	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	334526	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
35) Dibromofluoromethane	5.49	113	276422	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	
50) Toluene-d8	8.71	98	1094601	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
62) 4-Bromofluorobenzene	11.14	95	354317	43.52	ug/l	0.00
Spiked Amount			Recovery	=	87.04%	

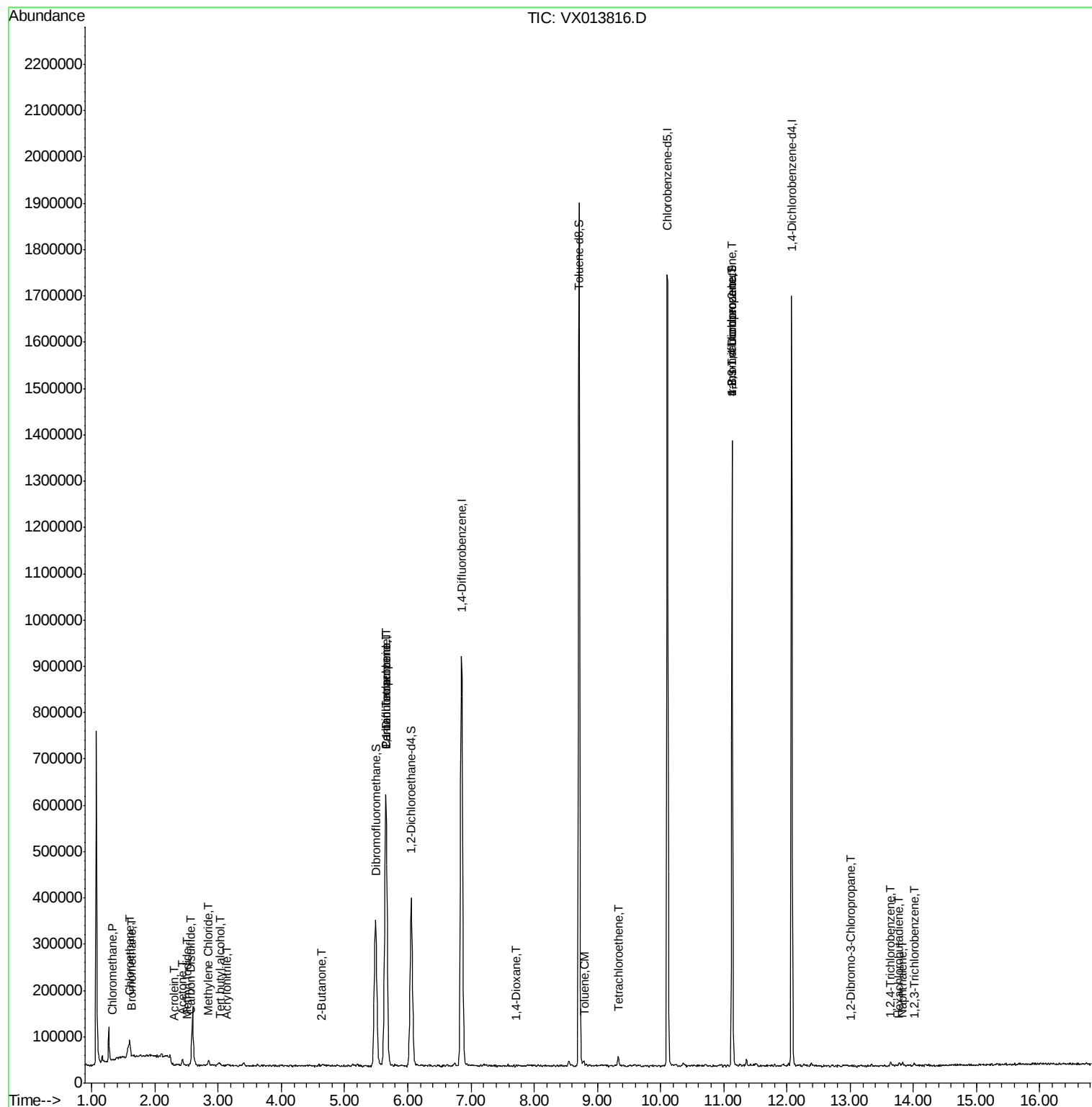
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2780	0.366	ug/l	91
5) Bromomethane	1.64	94	2016	0.351	ug/l	100
6) Chloroethane	1.61	64	1081	0.222	ug/l	93
10) Methyl Iodide	2.50	142	3156	0.450	ug/l #	94
11) Tert butyl alcohol	3.02	59	6782	3.894	ug/l #	79
13) Acrolein	2.30	56	441	6.373	ug/l #	58
15) Acrylonitrile	3.14	53	814	0.226	ug/l #	1
16) Acetone	2.43	43	14953	4.292	ug/l	99
17) Carbon Disulfide	2.56	76	4412	0.268	ug/l #	88
20) Methylene Chloride	2.85	84	6324	0.945	ug/l #	87
25) 2-Butanone	4.64	43	1419	0.274	ug/l	97
36) 1,1-Dichloropropene	5.65	75	41555	4.884	ug/l #	51
38) Carbon Tetrachloride	5.65	117	53683	6.843	ug/l #	15
49) 1,4-Dioxane	7.72	88	625	3.657	ug/l #	6
52) Toluene	8.78	92	3864	0.240	ug/l	100
64) Tetrachloroethene	9.33	164	1533	0.252	ug/l #	65
76) 1,2,3-Trichloropropane	11.13	75	172345	22.249	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	172345	60.868	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.01	75	365	0.200	ug/l	54
93) 1,2,4-Trichlorobenzene	13.64	180	2716	0.347	ug/l	86
94) Hexachlorobutadiene	13.77	225	769	0.204	ug/l	77
95) Naphthalene	13.84	128	5859	0.251	ug/l #	71
96) 1,2,3-Trichlorobenzene	14.01	180	2280	0.294	ug/l	85

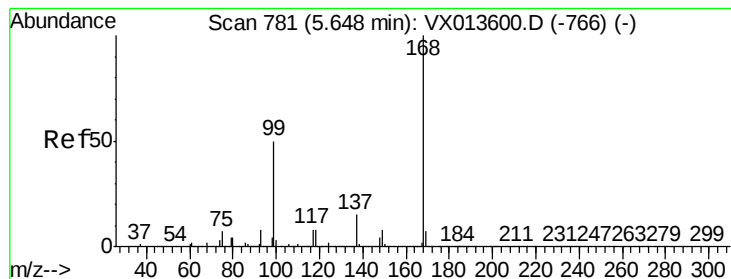
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX120619\
Data File : VX013816.D
Acq On : 06 Dec 2019 22:28
Operator : JC/SP
Sample : K6185-19
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB01-20191205

Quant Time: Dec 07 02:44:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 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: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

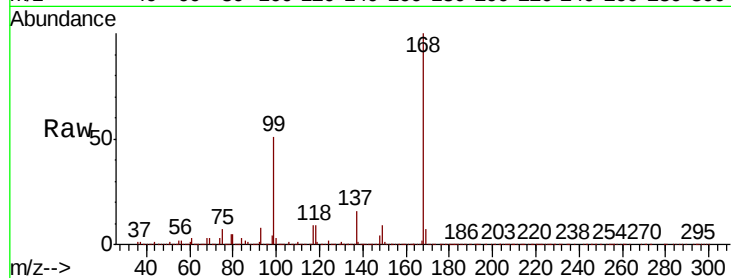
EB01-20191205

Tot Ion:168 Resp: 607949

Ion Ratio Lower Upper

168 100

99 51.4 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

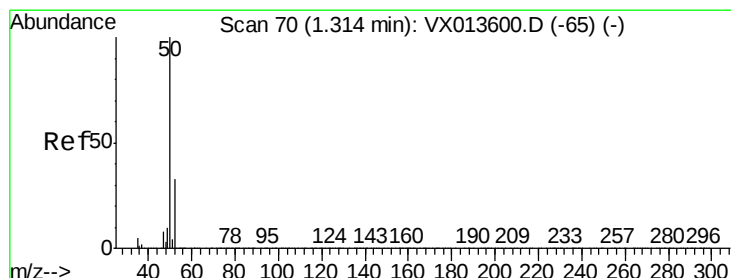
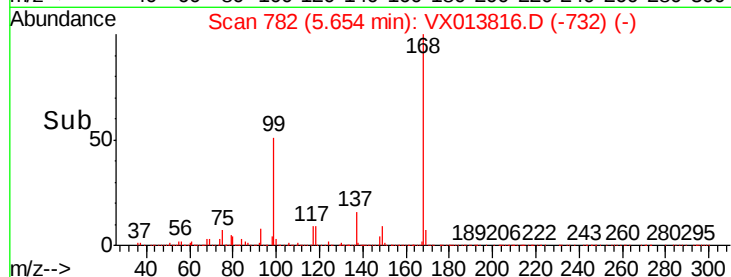
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.366 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013816.D

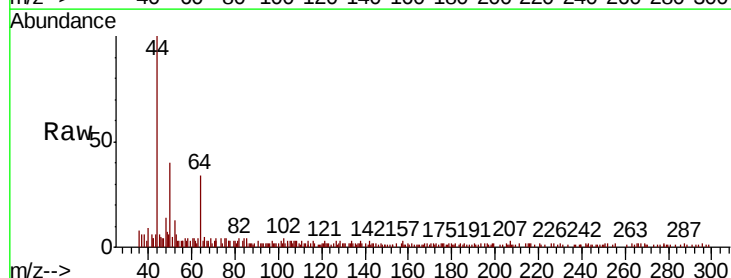
Acq: 06 Dec 2019 22:28

Tgt Ion: 50 Resp: 2780

Ion Ratio Lower Upper

50 100

52 27.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

3000

2500

2000

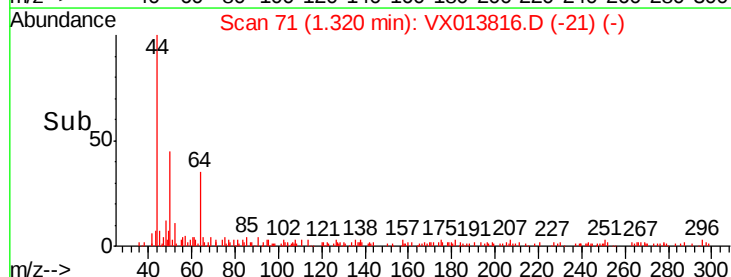
1500

1000

500

0

Time-->





#5

Bromomethane

Concen: 0.351 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

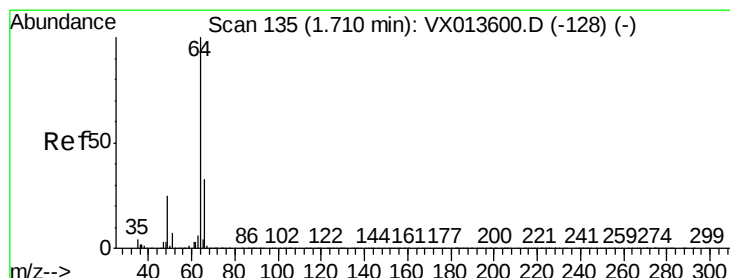
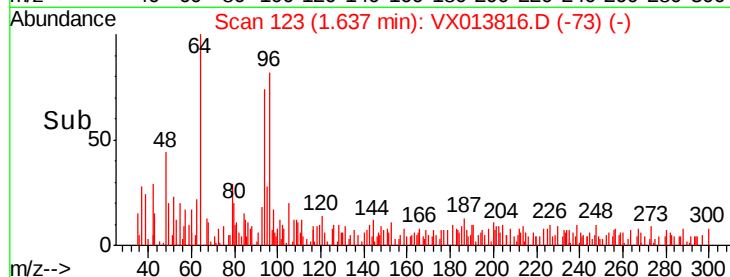
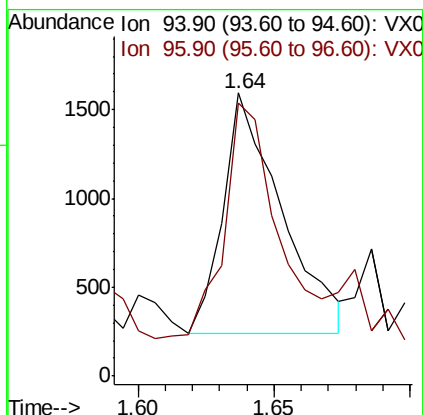
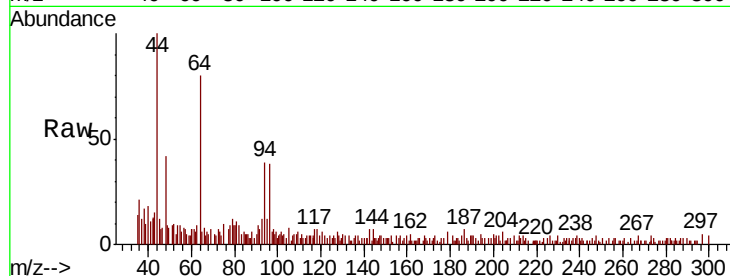
EB01-20191205

Tot Ion: 94 Resp: 2016

Ion Ratio Lower Upper

94 100

96 96.2 77.0 115.4



#6

Chloroethane

Concen: 0.222 ug/l

RT: 1.61 min Scan# 119

Delta R.T. -0.10 min

Lab File: VX013816.D

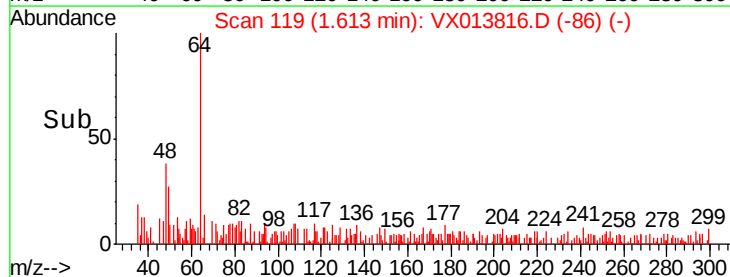
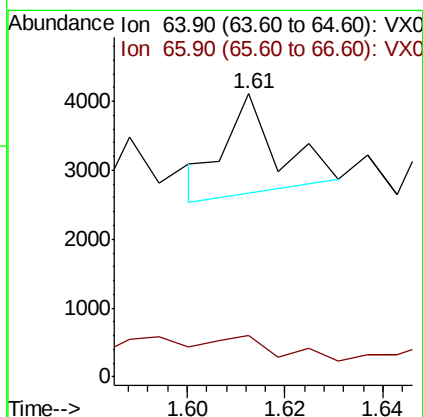
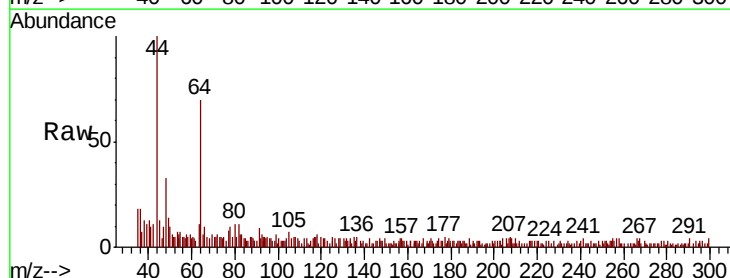
Acq: 06 Dec 2019 22:28

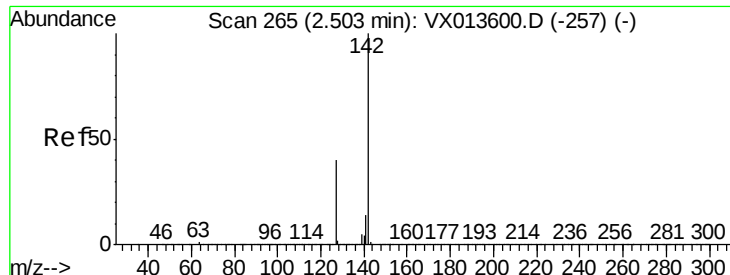
Tgt Ion: 64 Resp: 1081

Ion Ratio Lower Upper

64 100

66 29.2 26.7 40.1

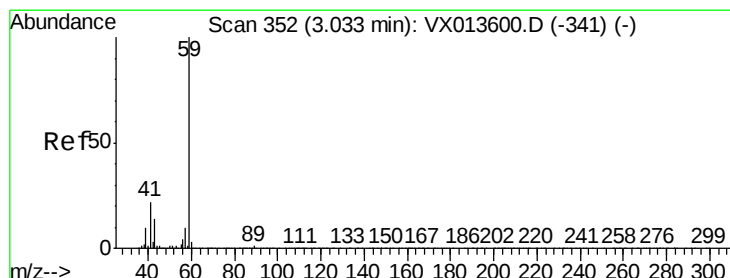
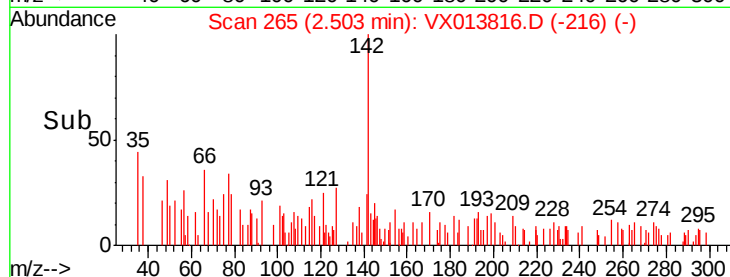
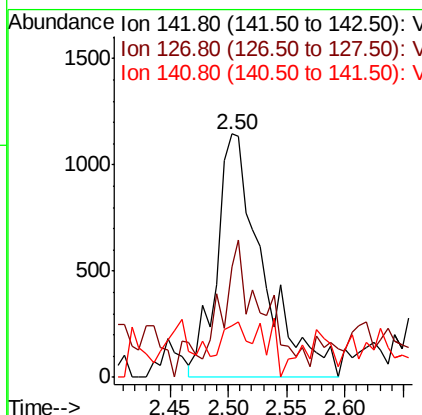
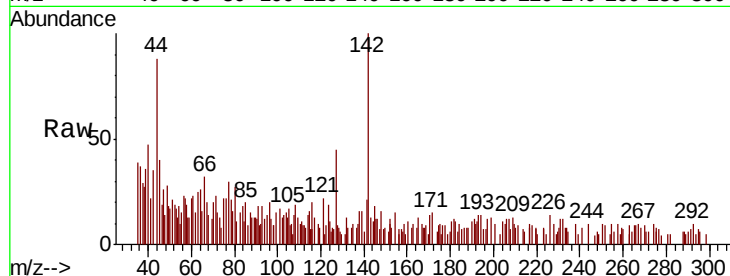




#10
Methvl Iodide
Concen: 0.450 ug/l
RT: 2.50 min Scan# 265
Delta R.T. -0.00 min
Lab File: VX013816.D
Acq: 06 Dec 2019 22:28

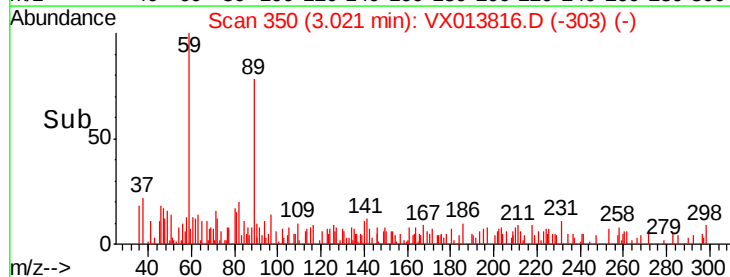
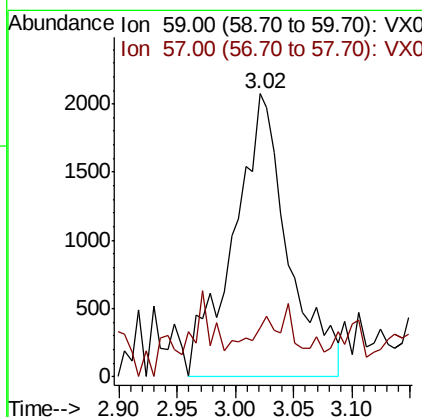
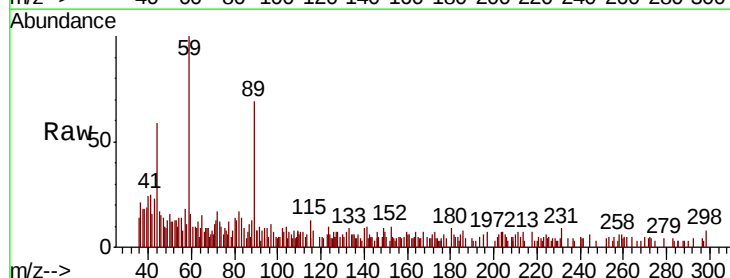
Instrument :
MSVOA_X
ClientSampleId :
EB01-20191205

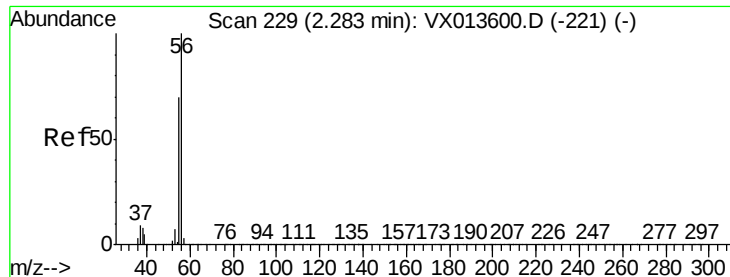
Tot Ion:142 Resp: 3156
Ion Ratio Lower Upper
142 100
127 37.9 31.0 46.4
141 6.7 11.6 17.4#



#11
Tert butyl alcohol
Concen: 3.894 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013816.D
Acq: 06 Dec 2019 22:28

Tgt Ion: 59 Resp: 6782
Ion Ratio Lower Upper
59 100
57 2.0 7.8 11.6#





#13

Acrolein

Concen: 6.373 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

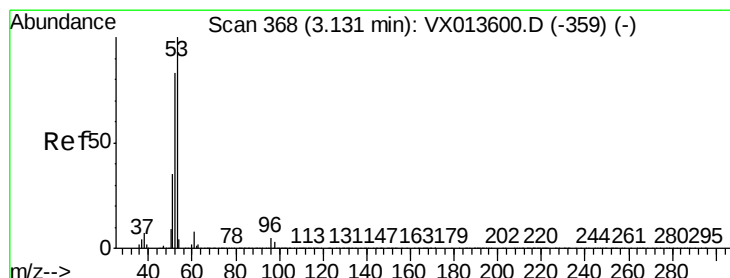
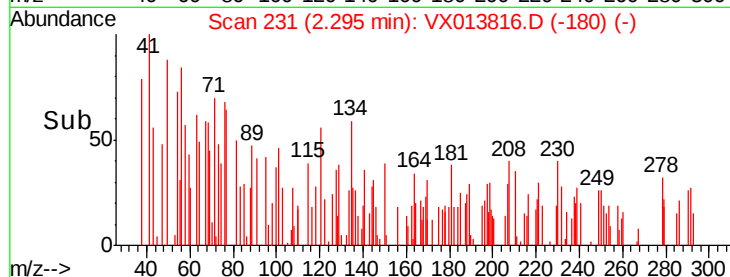
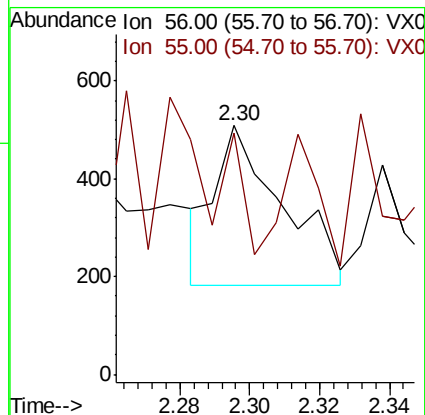
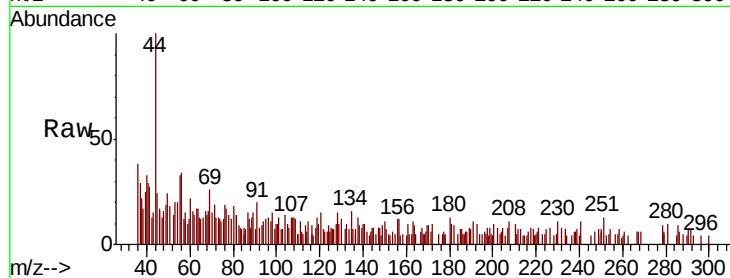
EB01-20191205

Tot Ion: 56 Resp: 441

Ion Ratio Lower Upper

56 100

55 35.6 56.2 84.4#



#15

Acrylonitrile

Concen: 0.226 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

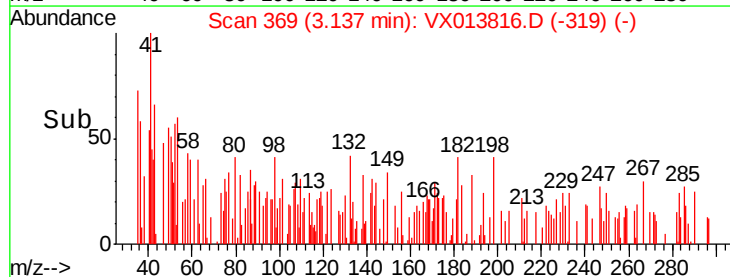
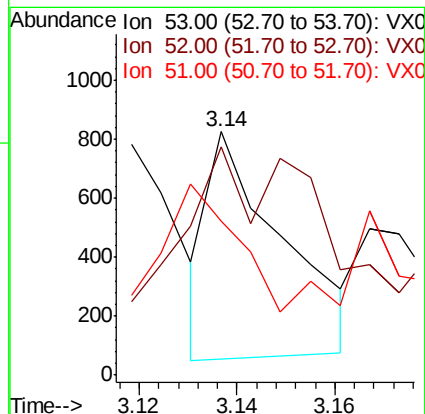
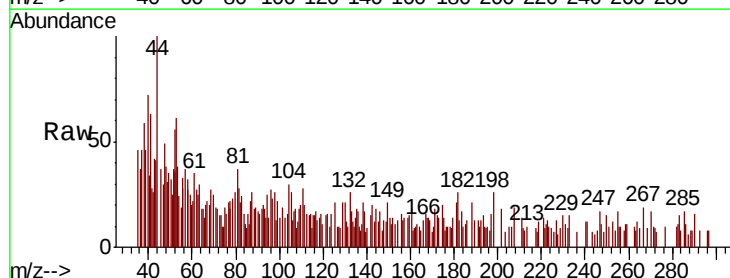
Tgt Ion: 53 Resp: 814

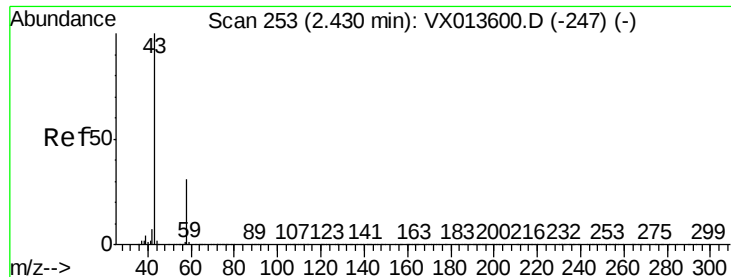
Ion Ratio Lower Upper

53 100

52 227.9 66.2 99.2#

51 68.9 29.0 43.6#

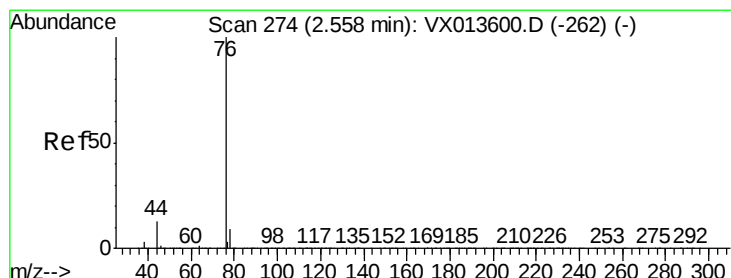
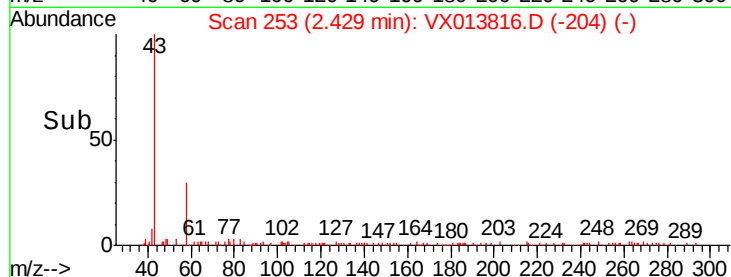
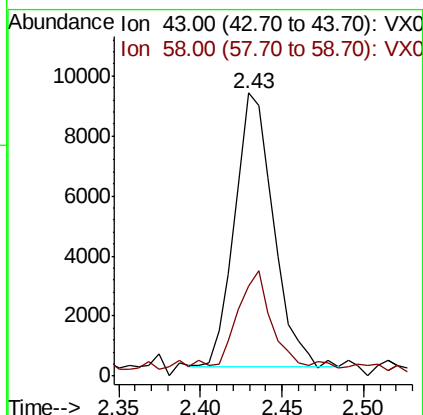
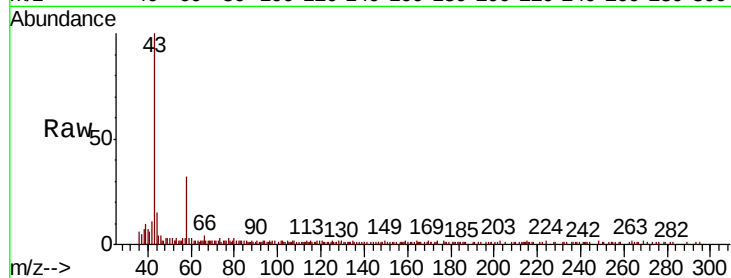




#16
Acetone
Concen: 4.292 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013816.D
Acq: 06 Dec 2019 22:28

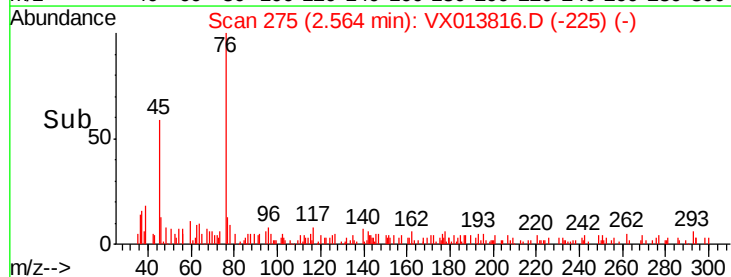
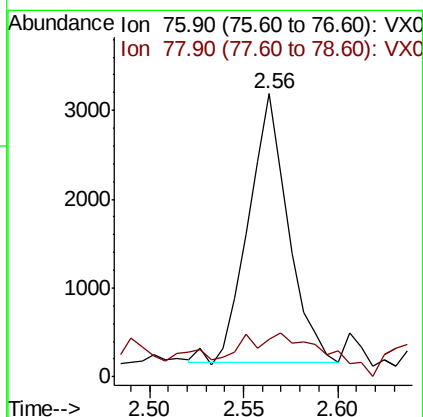
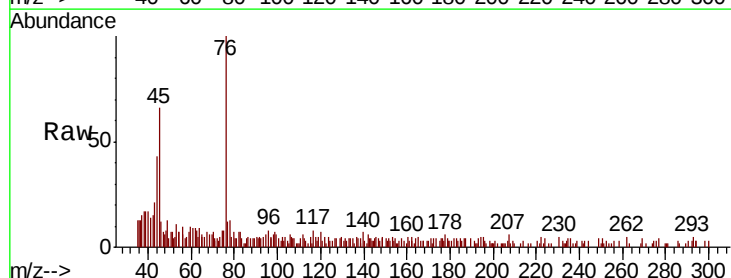
Instrument :
MSVOA_X
ClientSampleId :
EB01-20191205

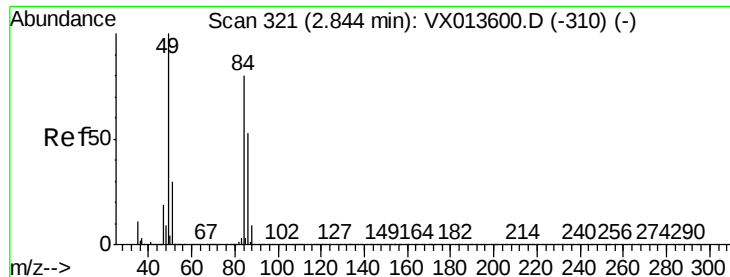
Tot Ion: 43 Resp: 14953
Ion Ratio Lower Upper
43 100
58 29.9 24.6 36.8



#17
Carbon Disulfide
Concen: 0.268 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX013816.D
Acq: 06 Dec 2019 22:28

Tgt Ion: 76 Resp: 4412
Ion Ratio Lower Upper
76 100
78 4.6 7.2 10.8#

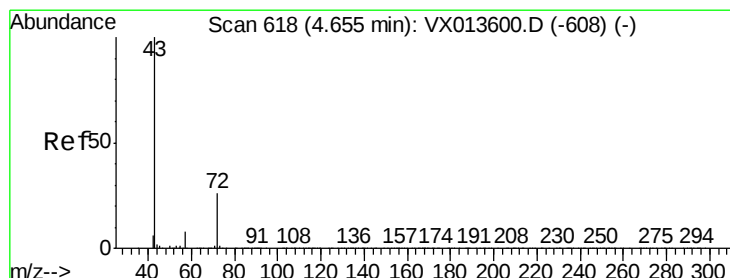
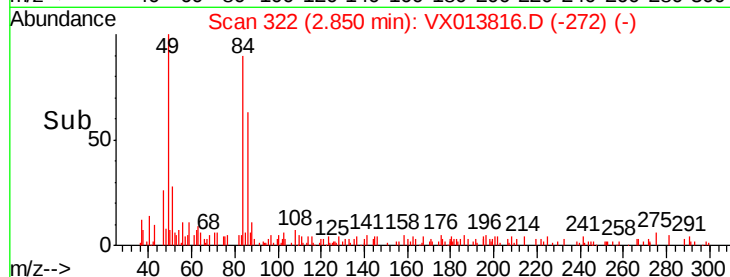
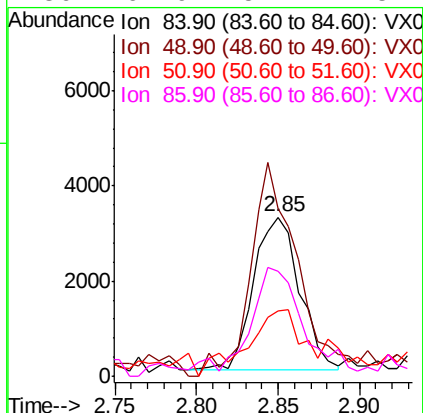
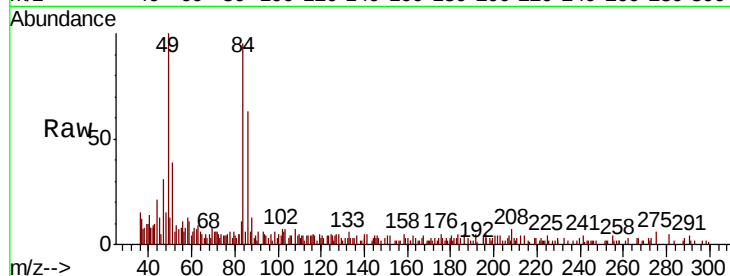




#20
Methvlene Chloride
Concen: 0.945 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013816.D
Acq: 06 Dec 2019 22:28

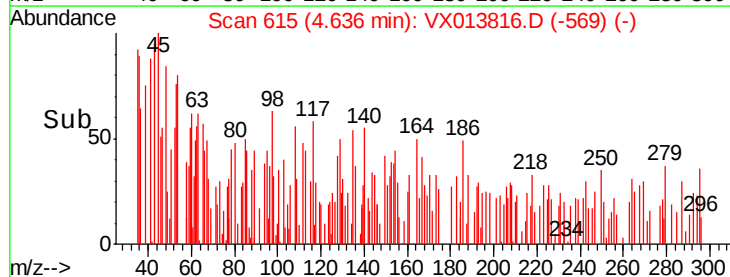
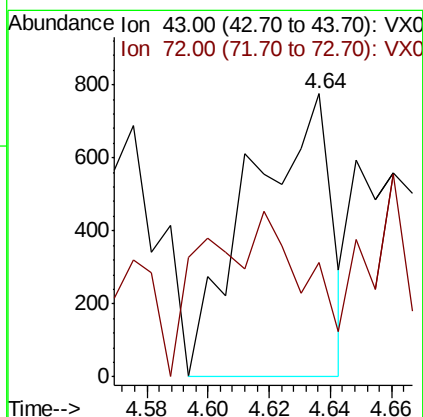
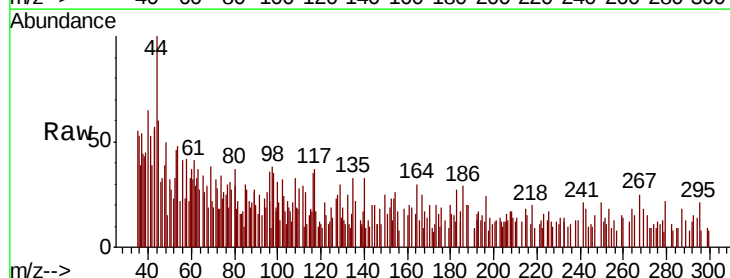
Instrument :
MSVOA_X
ClientSampleId :
EB01-20191205

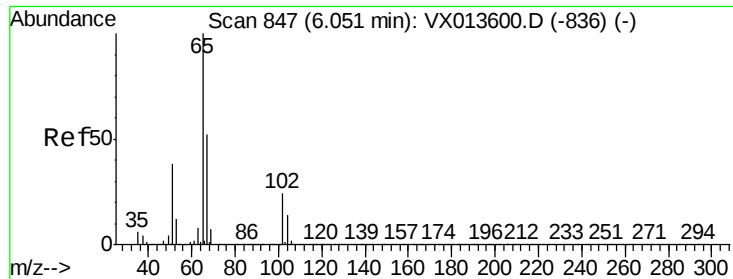
Tot Ion: 84 Resp: 6324
Ion Ratio Lower Upper
84 100
49 104.2 99.7 149.5
51 27.8 29.9 44.9#
86 64.9 52.2 78.4



#25
2-Butanone
Concen: 0.274 ug/l
RT: 4.64 min Scan# 615
Delta R.T. -0.02 min
Lab File: VX013816.D
Acq: 06 Dec 2019 22:28

Tgt Ion: 43 Resp: 1419
Ion Ratio Lower Upper
43 100
72 24.4 20.6 31.0





#33

1,2-Dichloroethane-d4

Concen: 47.404 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

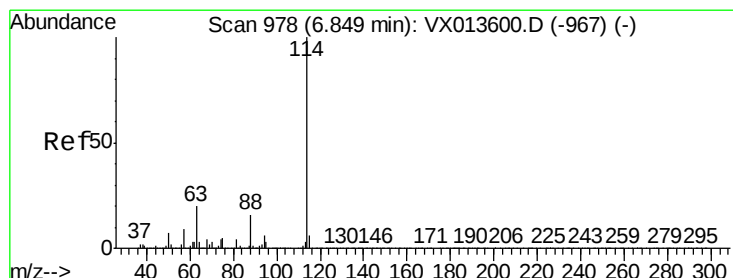
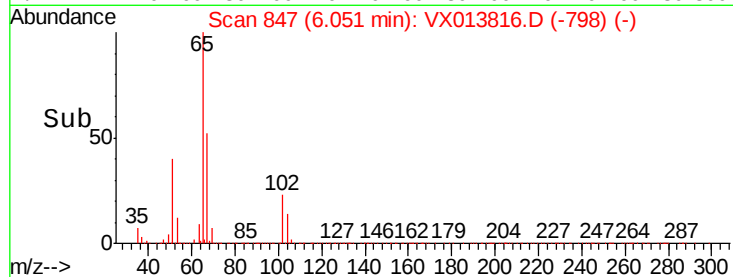
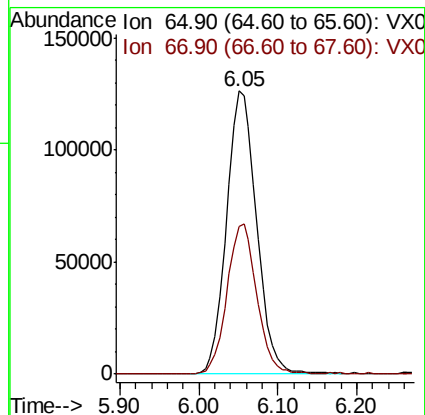
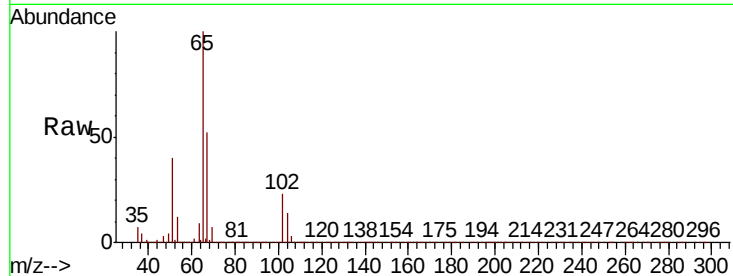
EB01-20191205

Tot Ion: 65 Resp: 334526

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

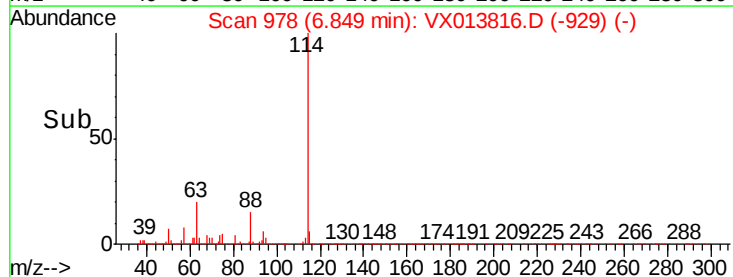
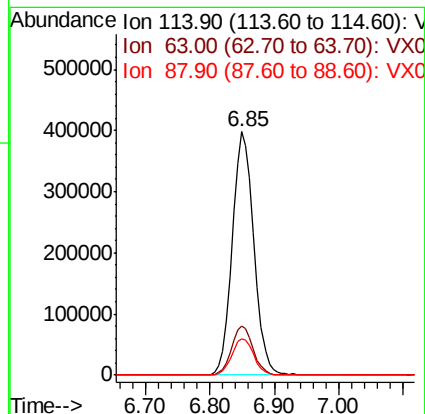
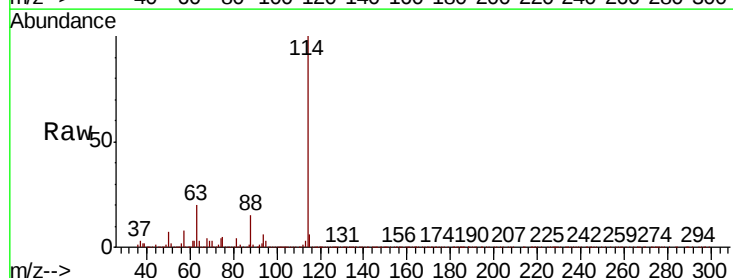
Tgt Ion: 114 Resp: 937269

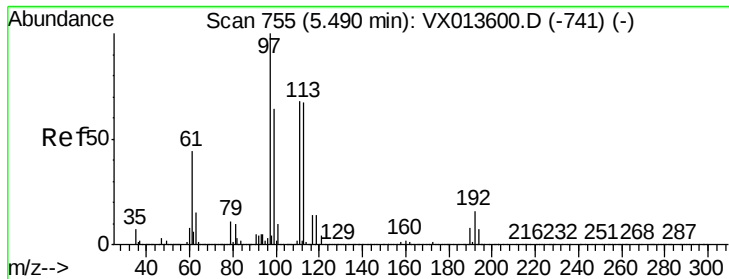
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 14.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.706 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

EB01-20191205

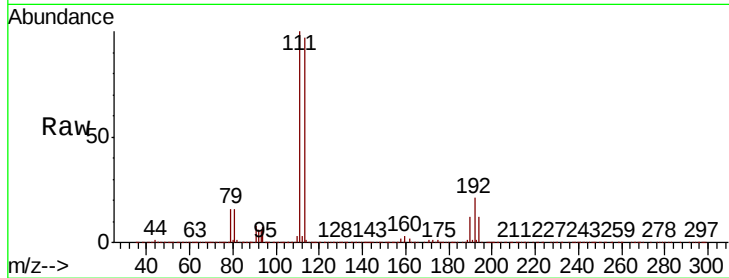
Tot Ion:113 Resp: 276422

Ion Ratio Lower Upper

113 100

111 103.0 83.6 125.4

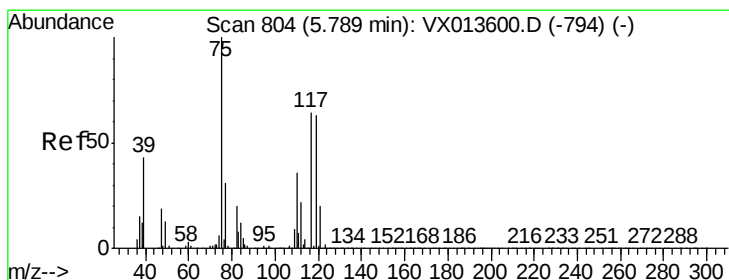
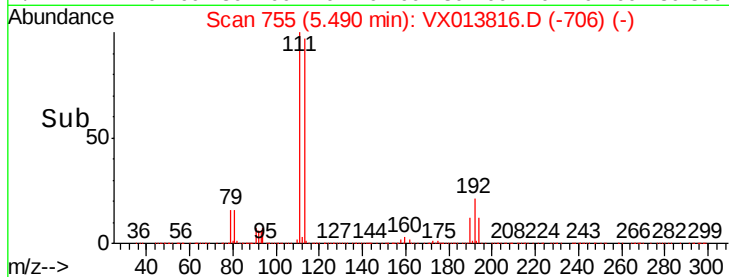
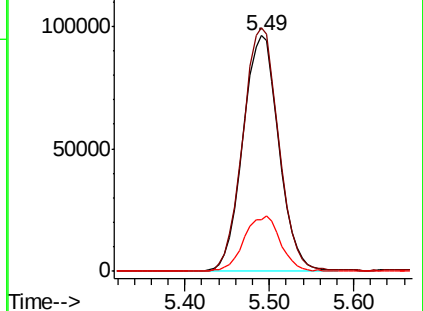
192 24.1 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.884 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

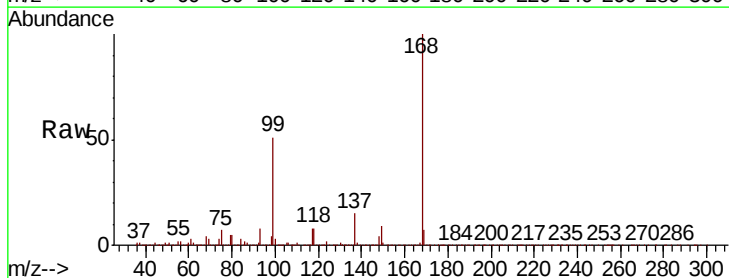
Tgt Ion: 75 Resp: 41555

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

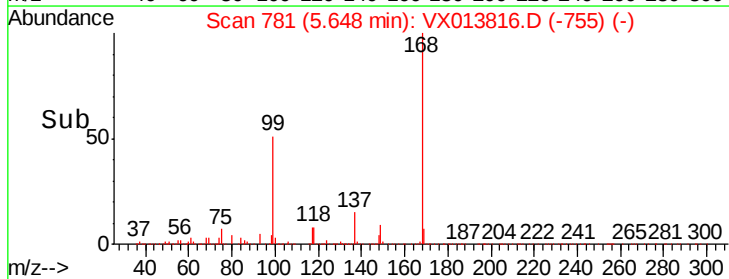
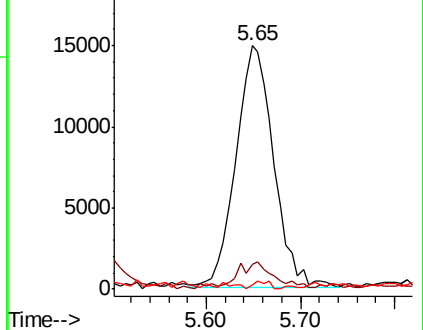
77 1.4 24.5 36.7#

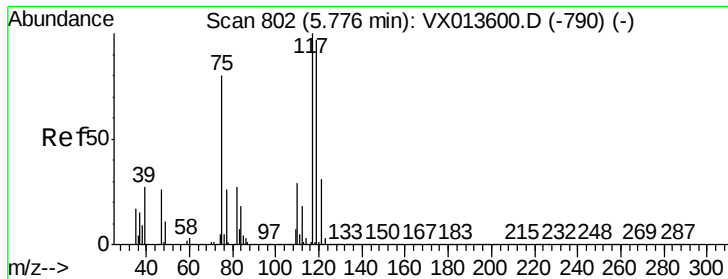


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.843 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

EB01-20191205

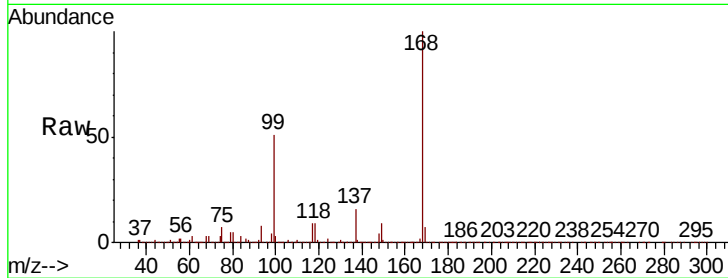
Tot Ion:117 Resp: 53683

Ion Ratio Lower Upper

117 100

119 4.9 77.5 116.3#

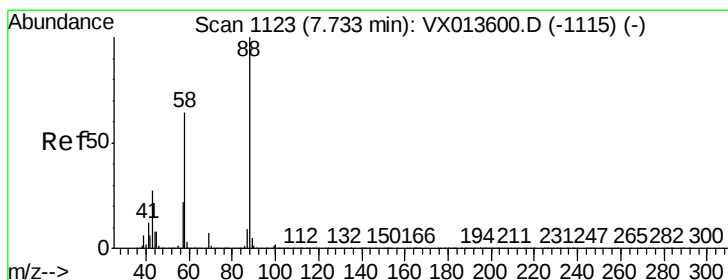
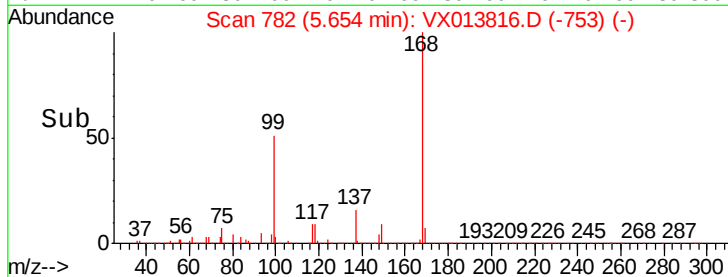
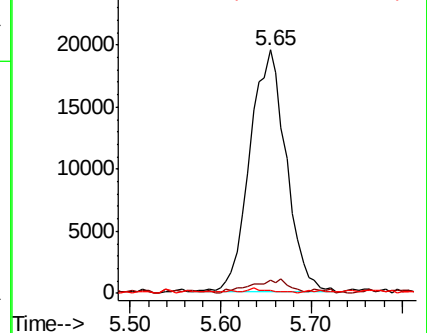
121 0.1 25.0 37.6#



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



#49

1,4-Dioxane

Concen: 3.657 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

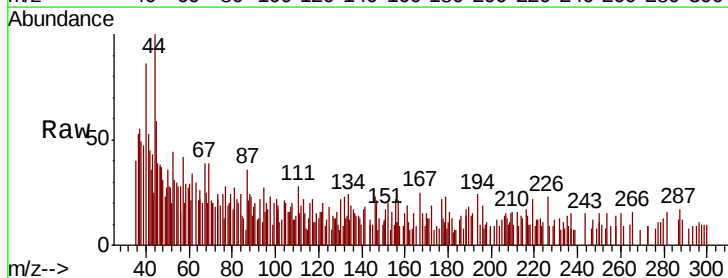
Tgt Ion: 88 Resp: 625

Ion Ratio Lower Upper

88 100

43 155.4 25.8 38.6#

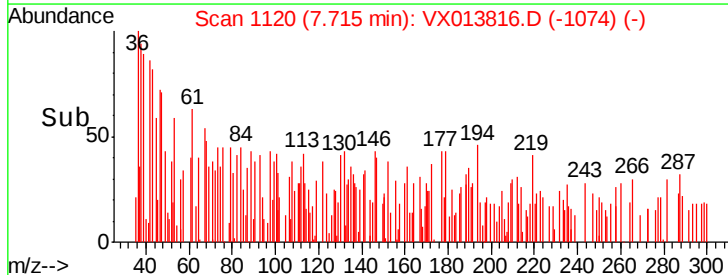
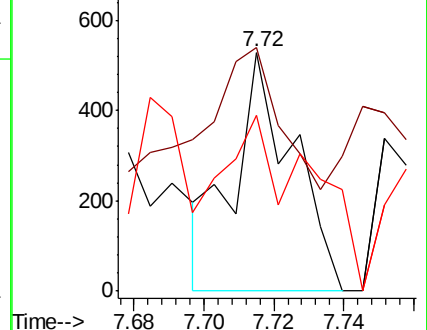
58 96.5 54.6 82.0#

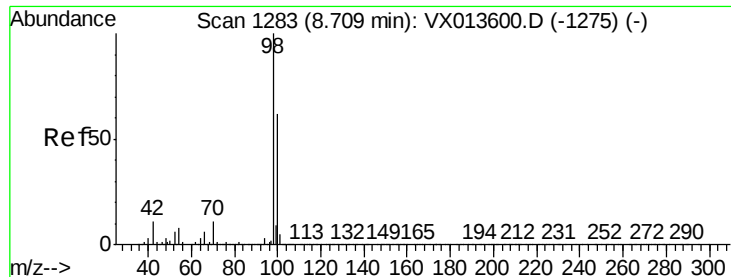


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.487 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

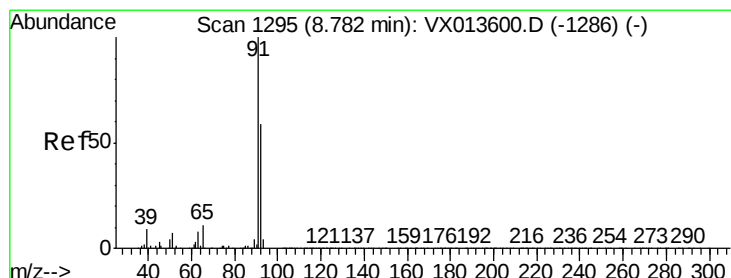
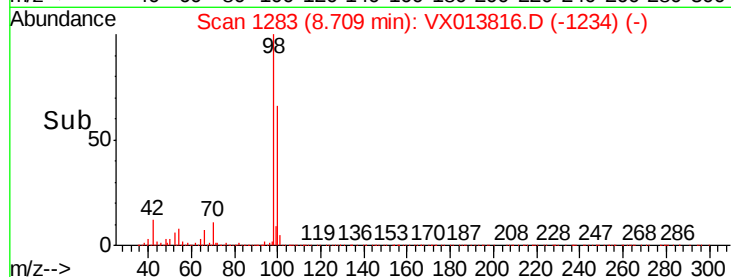
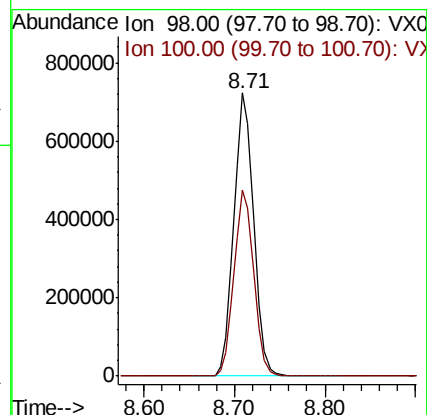
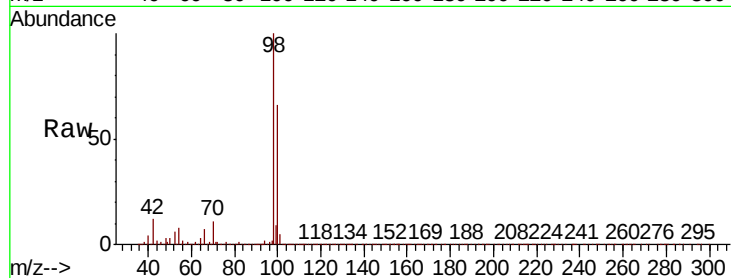
EB01-20191205

Tot Ion: 98 Resp: 1094601

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7



#52

Toluene

Concen: 0.240 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013816.D

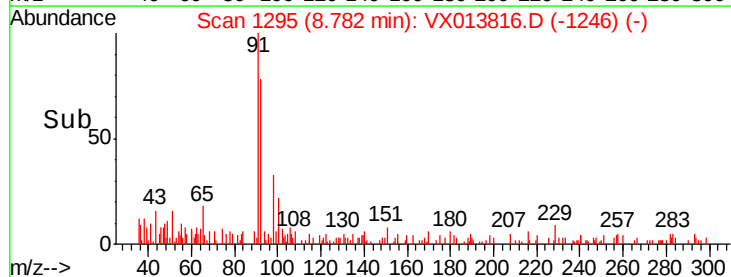
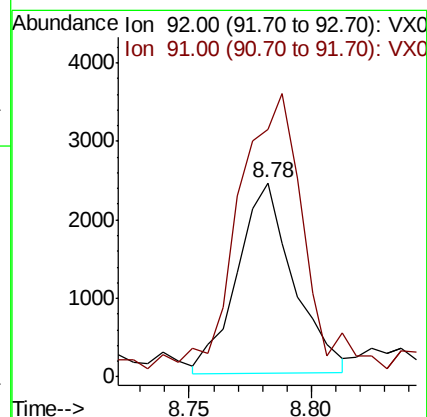
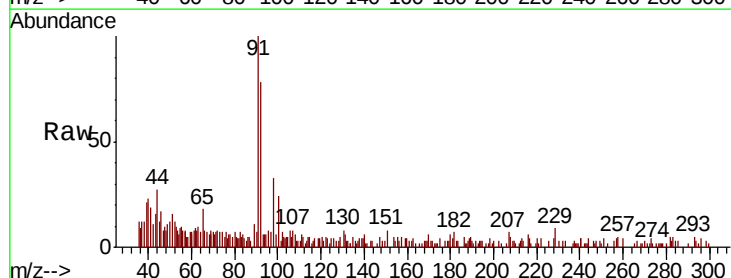
Acq: 06 Dec 2019 22:28

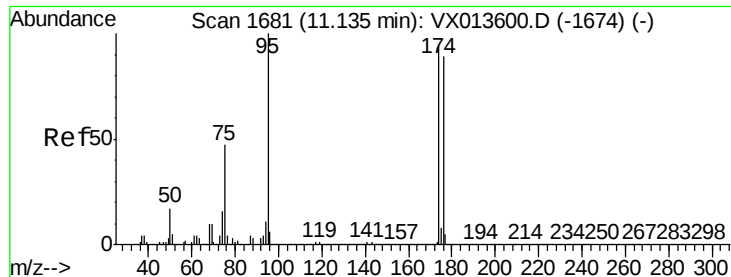
Tgt Ion: 92 Resp: 3864

Ion Ratio Lower Upper

92 100

91 169.8 136.2 204.2





#62

4-Bromofluorobenzene

Concen: 43.524 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

EB01-20191205

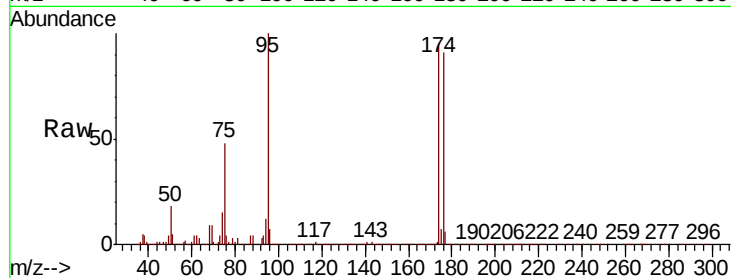
Tot Ion: 95 Resp: 354317

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.0

176 87.3 0.0 173.6

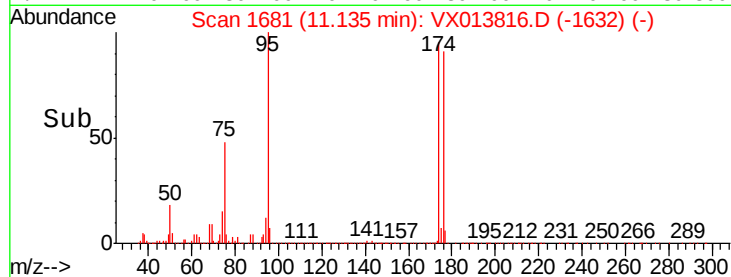


Abundance Ion 94.90 (94.60 to 95.60): VX013816.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013816.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013816.D (-1674) (-)

Time-->

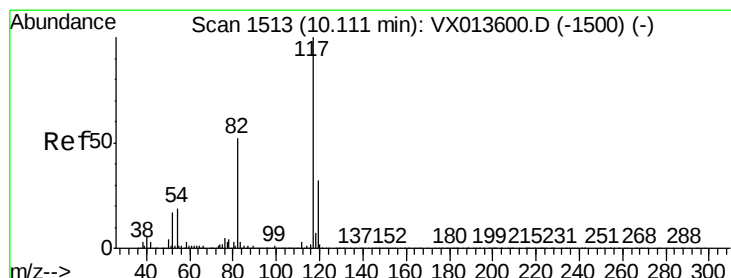


Abundance Ion 94.90 (94.60 to 95.60): VX013816.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013816.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013816.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

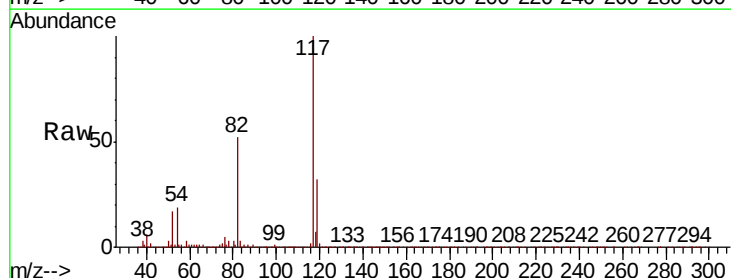
Tgt Ion: 117 Resp: 814678

Ion Ratio Lower Upper

117 100

82 52.1 41.8 62.8

119 31.9 25.8 38.8

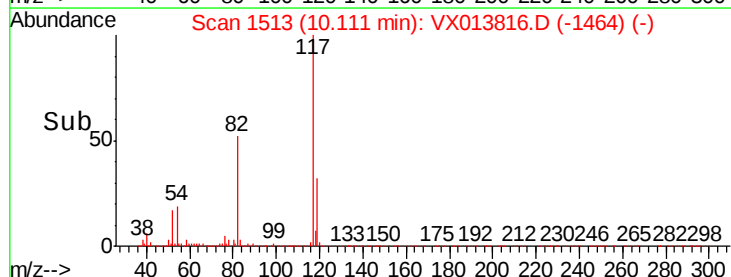


Abundance Ion 116.90 (116.60 to 117.60): VX013816.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013816.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013816.D (-1464) (-)

Time-->

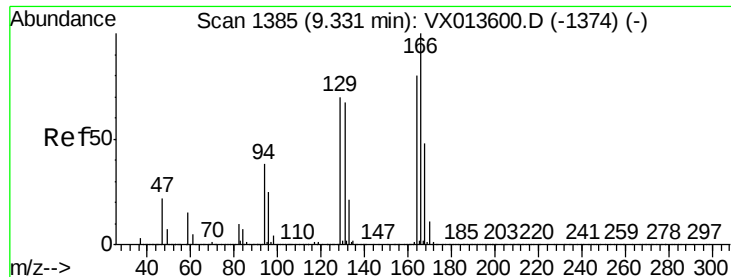


Abundance Ion 116.90 (116.60 to 117.60): VX013816.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013816.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013816.D (-1464) (-)

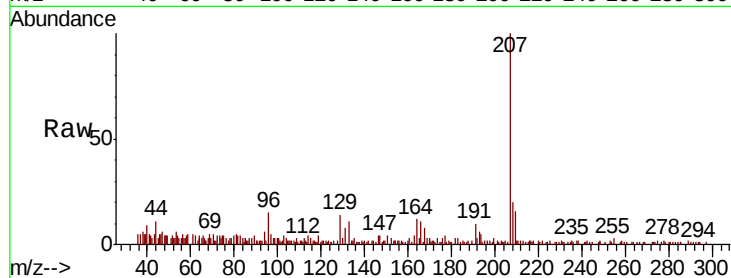
Time-->



#64
Tetrachloroethene
Concen: 0.252 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013816.D
Acq: 06 Dec 2019 22:28

Instrument :
MSVOA_X
ClientSampleId :
EB01-20191205

Tot Ion	Ratio	Lower	Upper
164	100		
166	78.7	99.7	149.5#
129	116.8	70.1	105.1#
131	56.2	66.9	100.3#



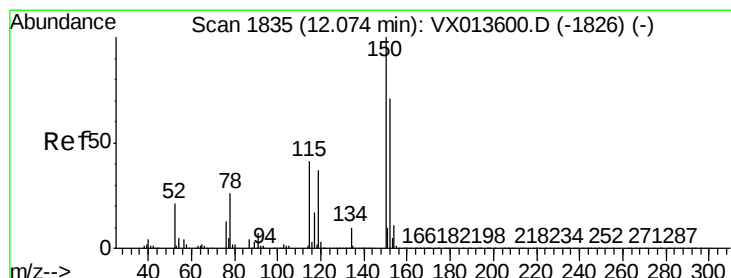
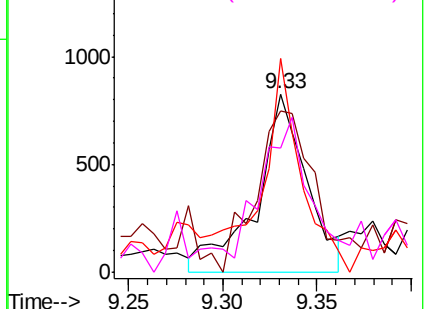
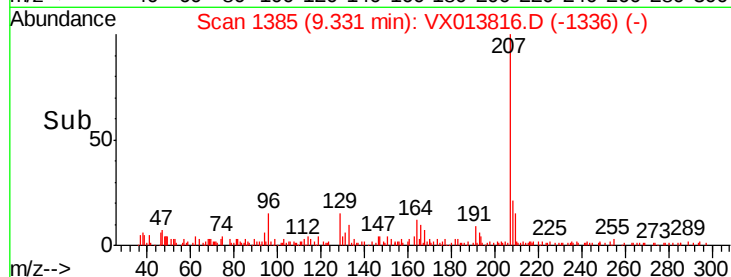
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

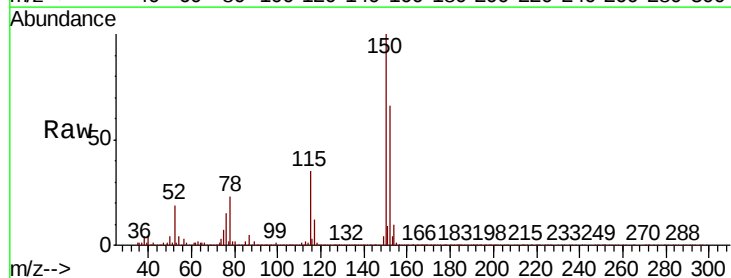
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013816.D
Acq: 06 Dec 2019 22:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	38.4	115.1
150	156.6	0.0	346.8

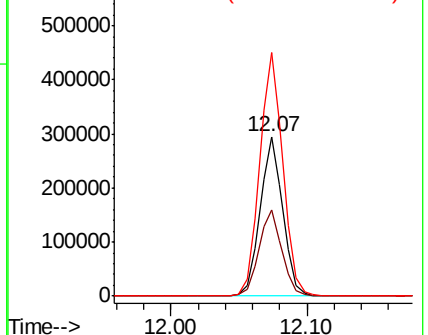
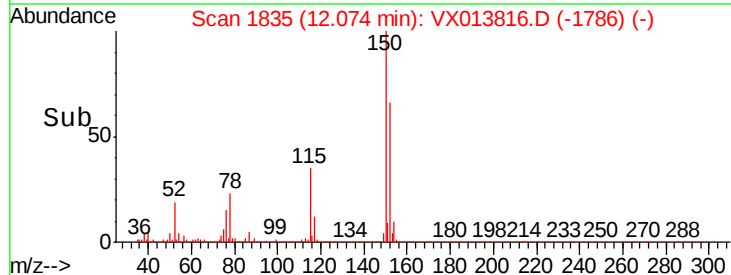


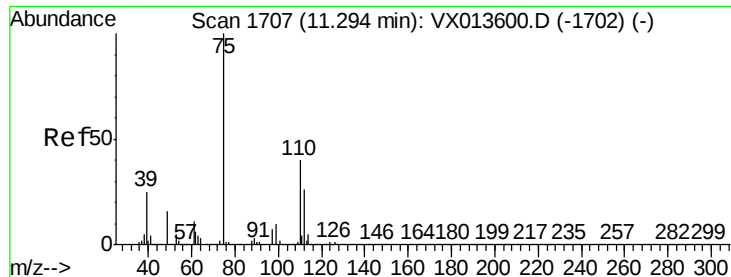
Abundance

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: 22.249 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampled :

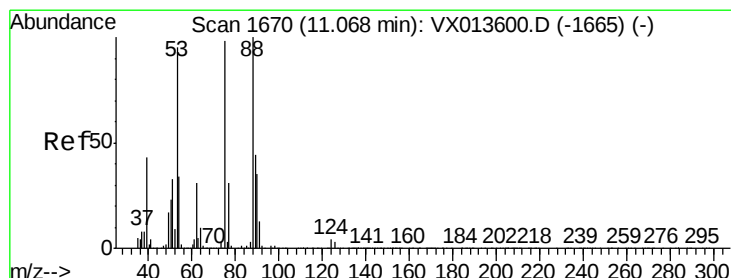
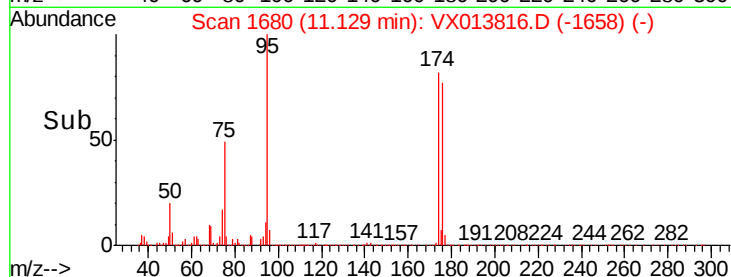
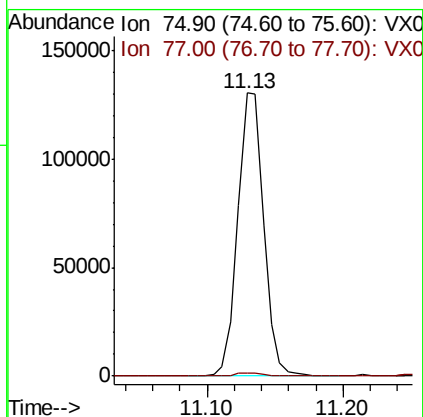
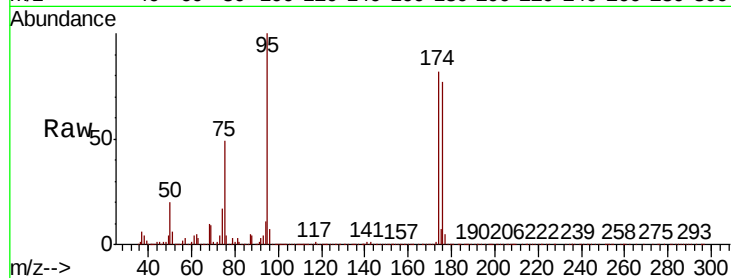
EB01-20191205

Tot Ion: 75 Resp: 172345

Ion Ratio Lower Upper

75 100

77 1.5 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.868 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

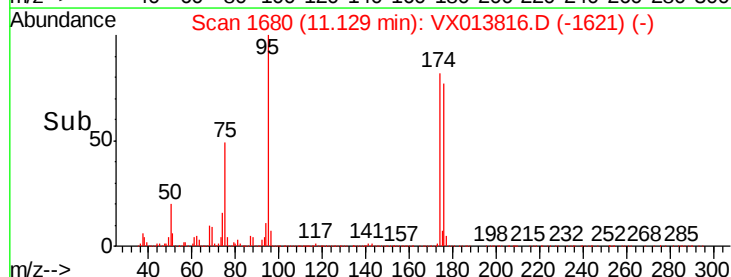
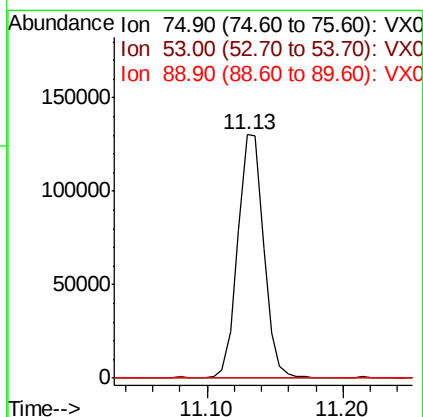
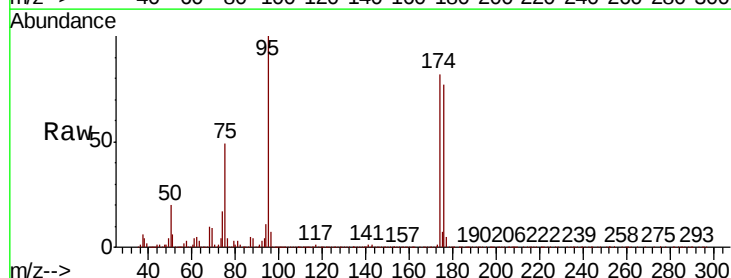
Tgt Ion: 75 Resp: 172345

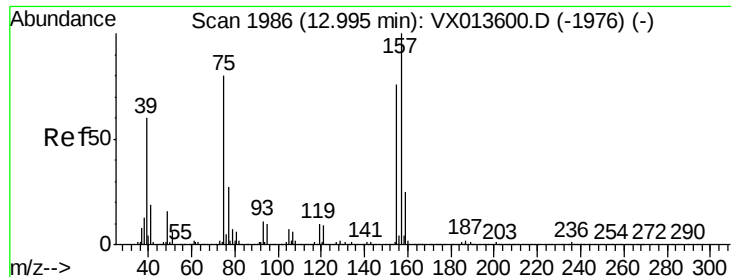
Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.1 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.200 ug/l

RT: 13.01 min Scan# 1989

Delta R.T. 0.02 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

EB01-20191205

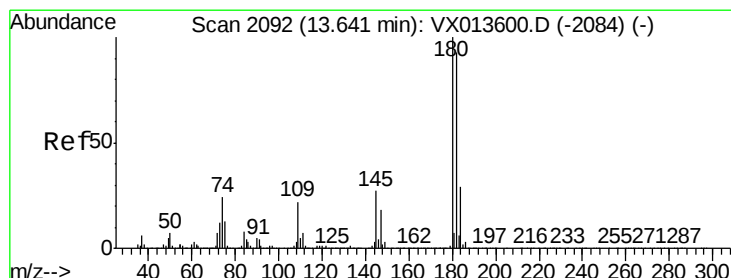
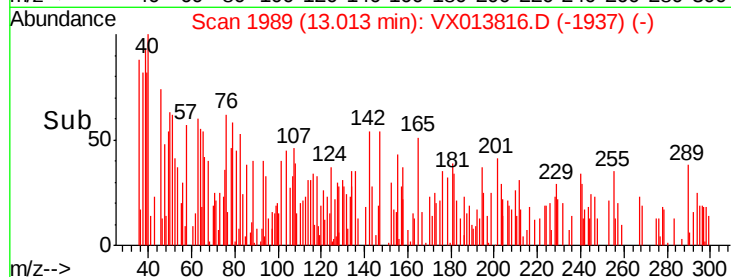
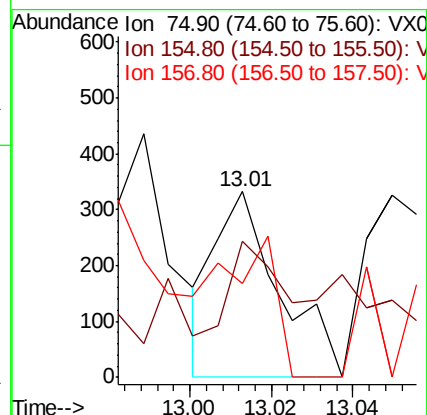
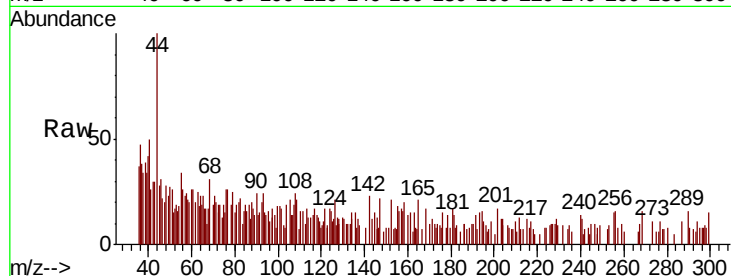
Tot Ion: 75 Resp: 365

Ion Ratio Lower Upper

75 100

155 60.0 47.6 142.8

157 62.7 62.1 186.2



#93

1,2,4-Trichlorobenzene

Concen: 0.347 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. -0.00 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

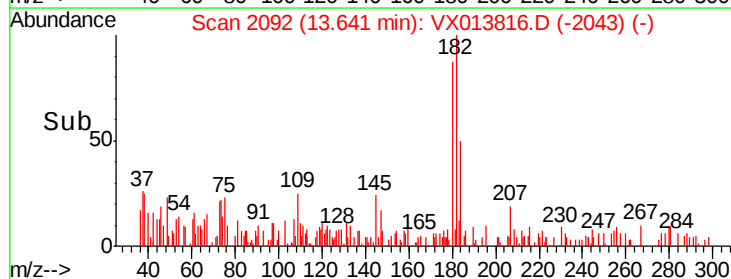
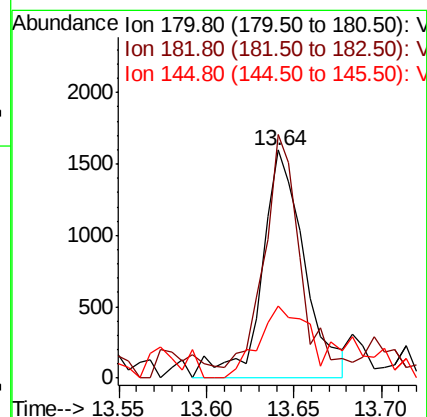
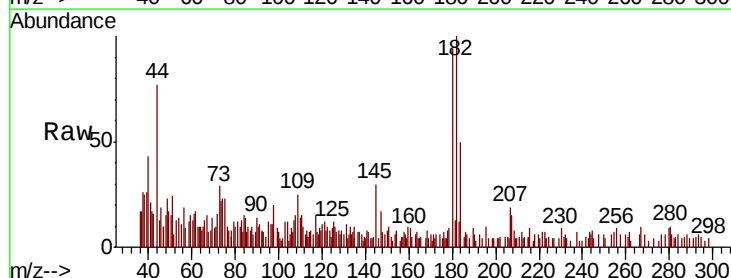
Tgt Ion: 180 Resp: 2716

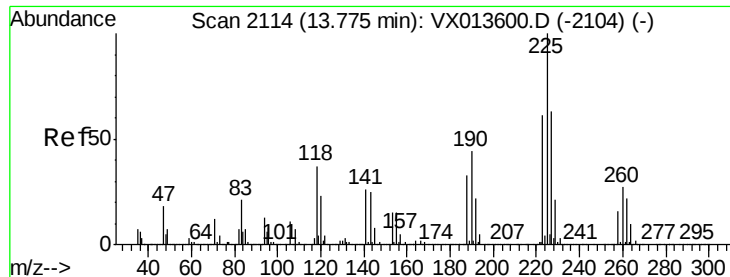
Ion Ratio Lower Upper

180 100

182 80.9 47.2 141.6

145 35.9 13.8 41.4





#94

Hexachlorobutadiene

Concen: 0.204 ug/l

RT: 13.77 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

Instrument :

MSVOA_X

ClientSampleId :

EB01-20191205

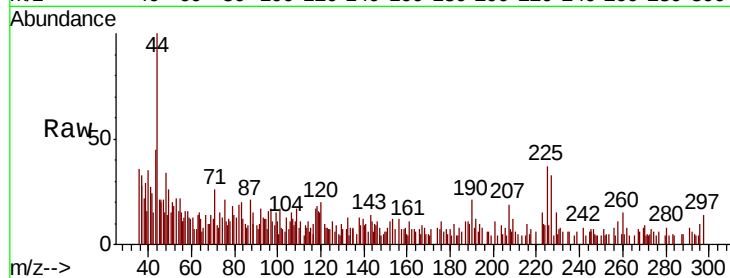
Tot Ion:225 Resp: 769

Ion Ratio Lower Upper

225 100

223 76.6 31.9 95.5

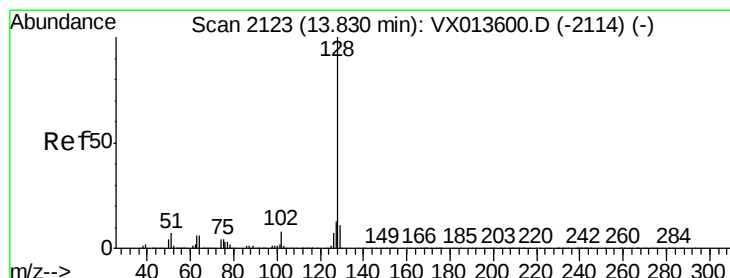
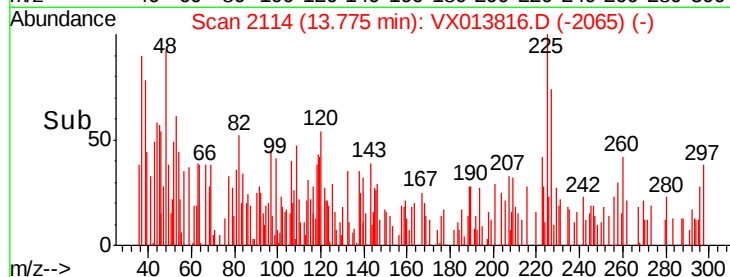
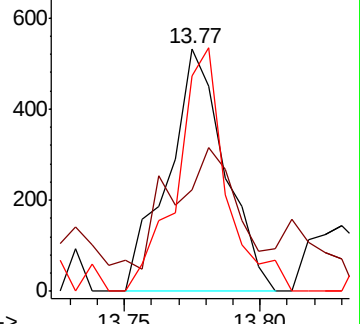
227 87.4 32.1 96.3



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.251 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX013816.D

Acq: 06 Dec 2019 22:28

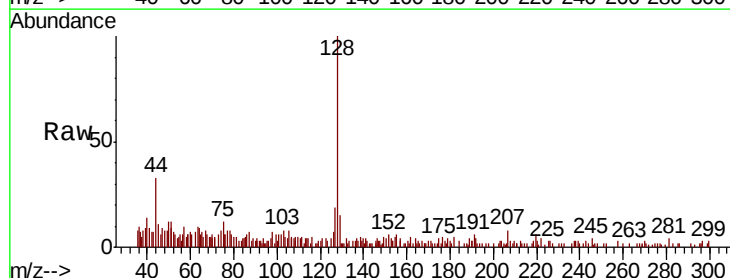
Tgt Ion:128 Resp: 5859

Ion Ratio Lower Upper

128 100

127 25.0 10.3 15.5#

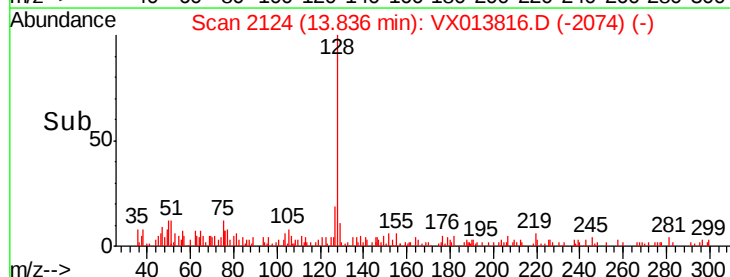
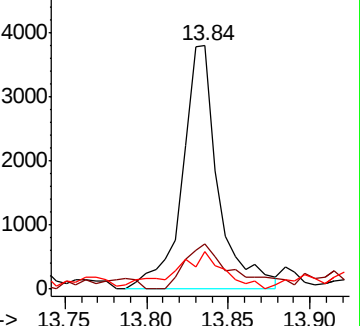
129 21.3 8.7 13.1#

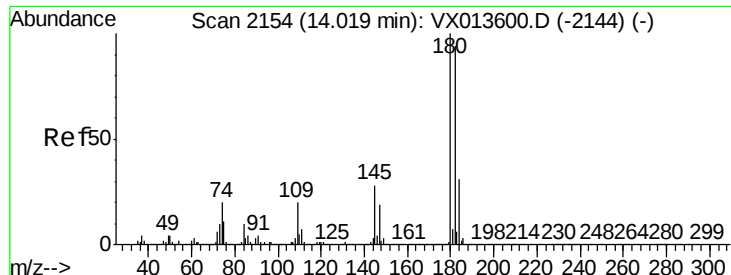


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.294 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VX013816.D
 Acq: 06 Dec 2019 22:28

Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-20191205

Tot Ion	Ratio	Lower	Upper
180	100		
182	109.0	47.6	142.8
145	38.7	15.0	45.0

