

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013789.D
 Acq On : 06 Dec 2019 11:11
 Operator : JC/SP
 Sample : K6099-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OF-3

Quant Time: Dec 07 02:34:55 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	668923	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1012456	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	910450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	420627	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	366773	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	
35) Dibromofluoromethane	5.48	113	303913	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
50) Toluene-d8	8.71	98	1191543	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	11.13	95	406889	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	

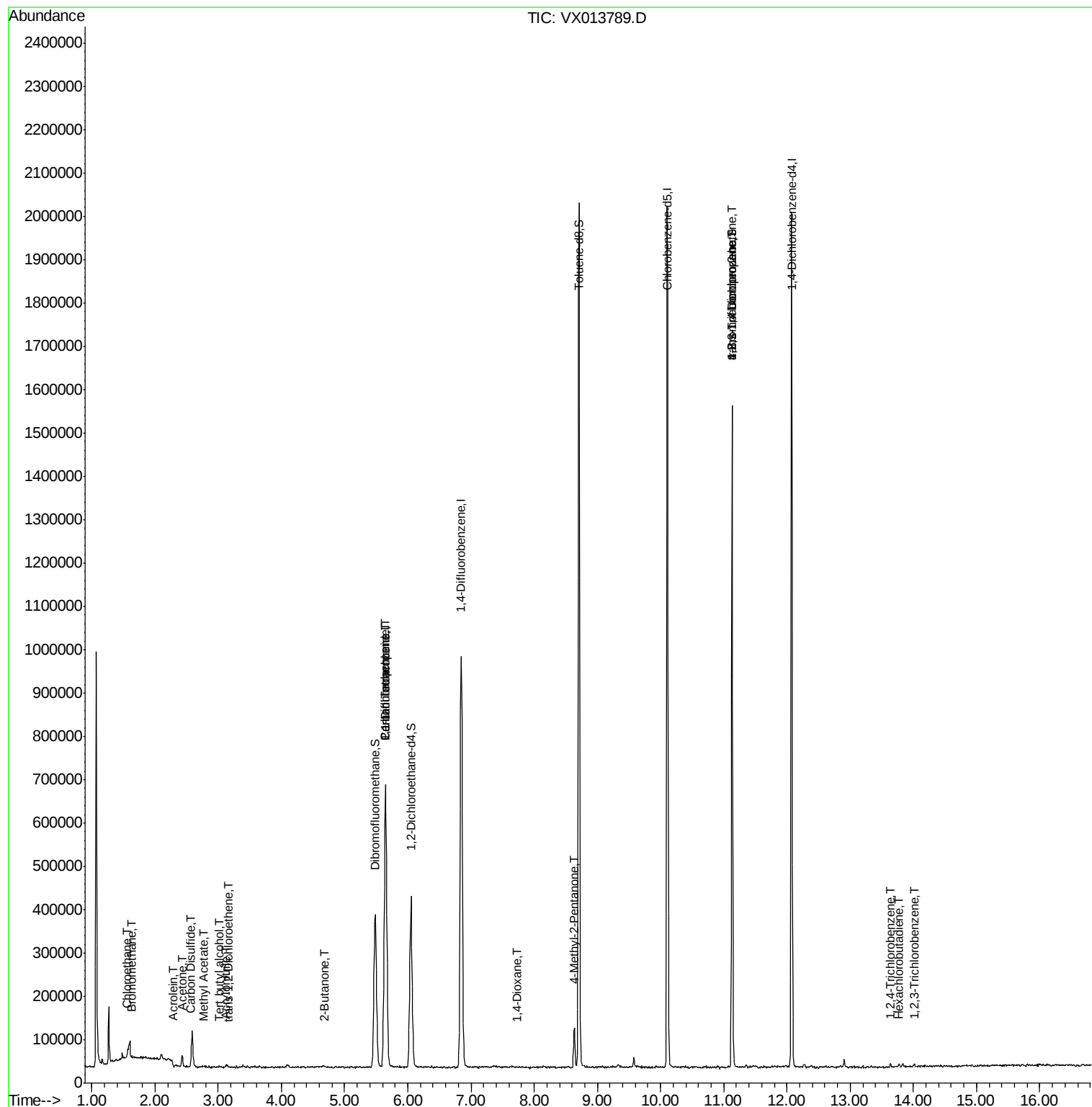
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	2137	0.338	ug/l	92
6) Chloroethane	1.56	64	11563	2.161	ug/l #	46
11) Tert butyl alcohol	3.02	59	1913	0.998	ug/l #	62
13) Acrolein	2.29	56	1812	7.383	ug/l #	15
15) Acrylonitrile	3.12	53	1447	0.366	ug/l #	50
16) Acetone	2.43	43	29288	7.640	ug/l	99
17) Carbon Disulfide	2.56	76	4802	0.265	ug/l	97
18) Methyl Acetate	2.76	43	2304	0.216	ug/l #	69
21) trans-1,2-Dichloroethene	3.16	96	1612	0.232	ug/l #	37
25) 2-Butanone	4.68	43	7114	1.249	ug/l	94
36) 1,1-Dichloropropene	5.65	75	46466	5.056	ug/l #	52
38) Carbon Tetrachloride	5.64	117	58466	6.899	ug/l #	16
49) 1,4-Dioxane	7.74	88	431	2.335	ug/l #	56
51) 4-Methyl-2-Pentanone	8.64	43	54806	5.133	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	198719	21.005	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	198719	57.465	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.64	180	2094	0.219	ug/l #	71
94) Hexachlorobutadiene	13.78	225	1013	0.220	ug/l	80
96) 1,2,3-Trichlorobenzene	14.01	180	1927	0.203	ug/l #	63

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

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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# 781

Delta R.T. 0.00 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

Instrument :

MSVOA_X

ClientSampled :

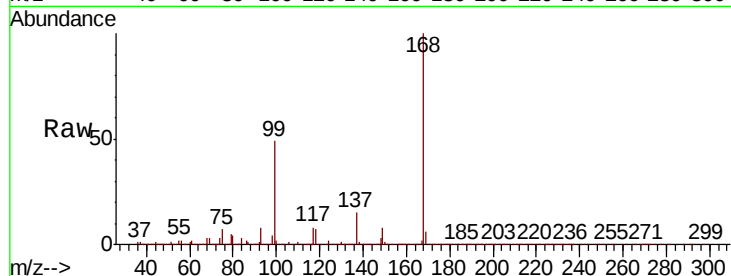
OF-3

Tot Ion:168 Resp: 668923

Ion Ratio Lower Upper

168 100

99 48.7 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

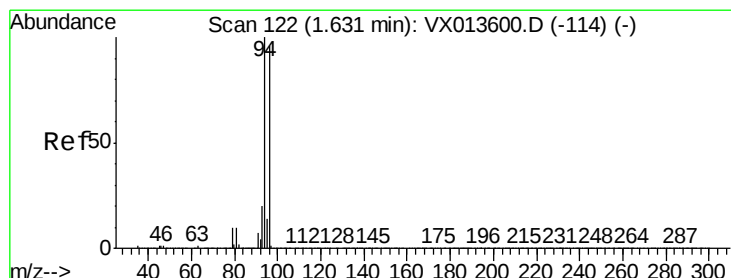
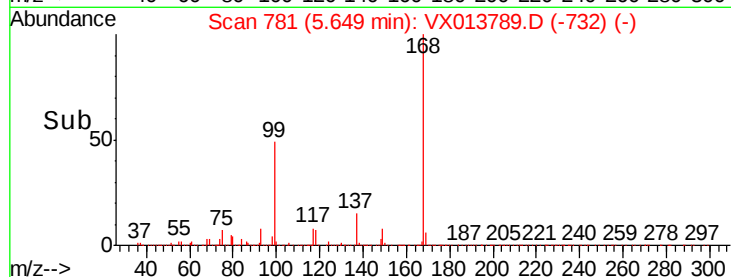
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.338 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013789.D

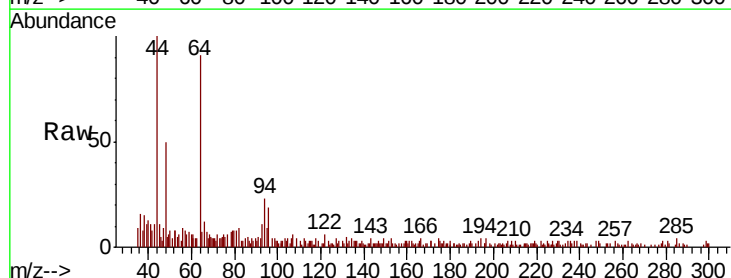
Acq: 06 Dec 2019 11:11

Tgt Ion: 94 Resp: 2137

Ion Ratio Lower Upper

94 100

96 88.5 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

600

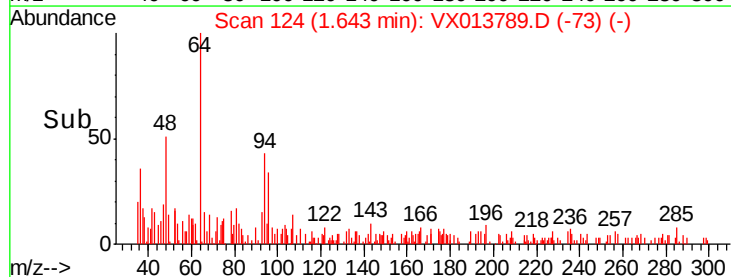
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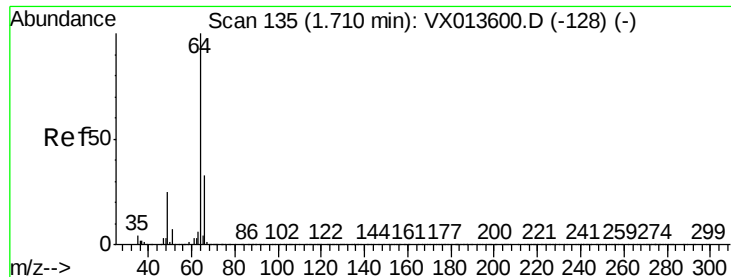
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 2.161 ug/l

RT: 1.56 min Scan# 110

Delta R.T. -0.15 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

Instrument :

MSVOA_X

ClientSampleId :

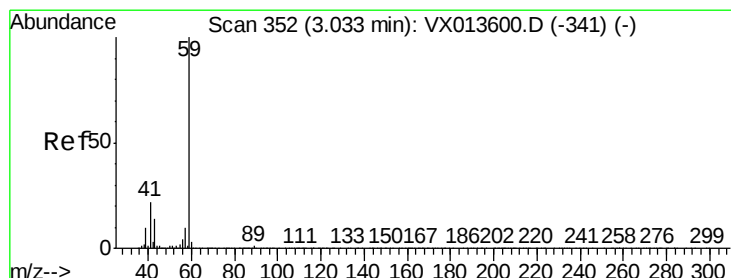
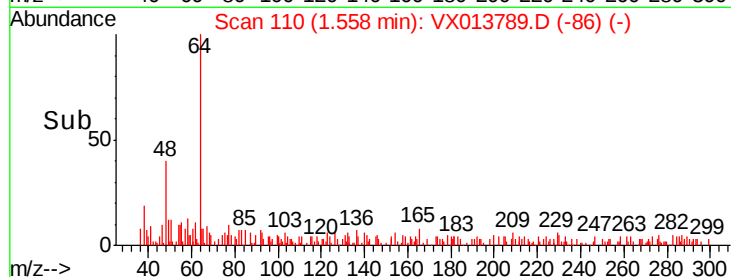
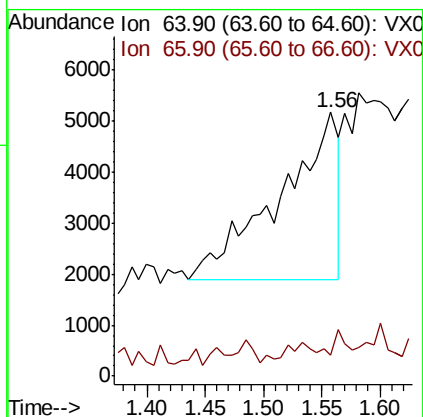
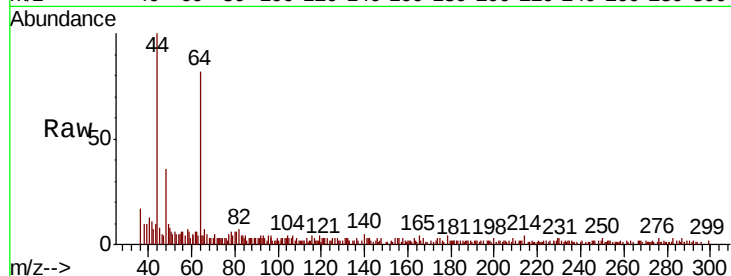
OF-3

Tot Ion: 64 Resp: 11563

Ion Ratio Lower Upper

64 100

66 2.8 26.7 40.1#



#11

Tert butyl alcohol

Concen: 0.998 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX013789.D

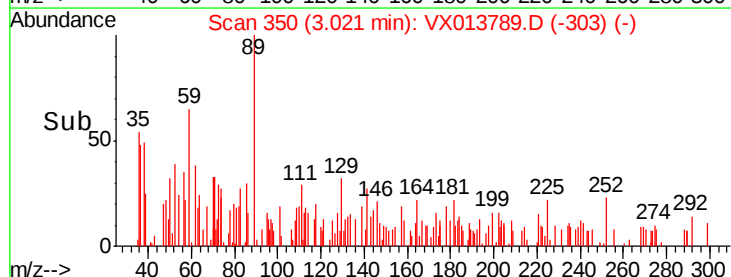
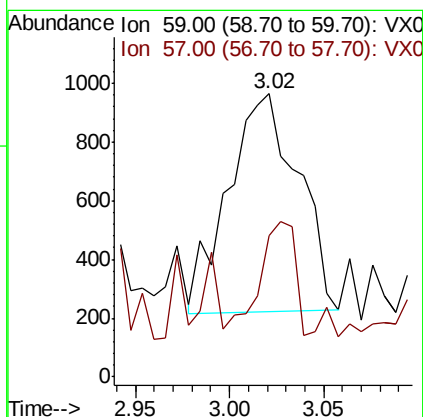
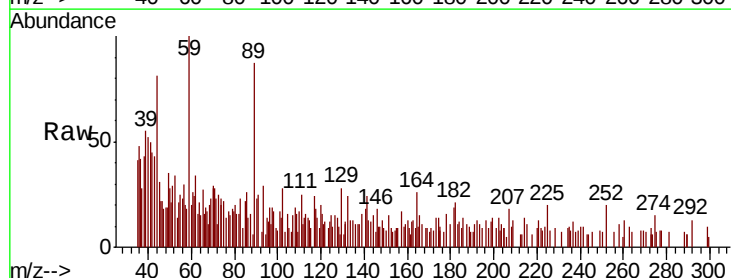
Acq: 06 Dec 2019 11:11

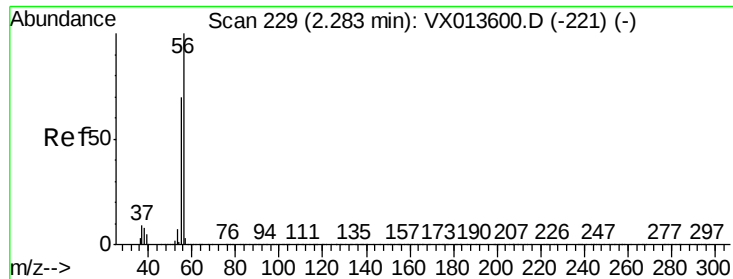
Tgt Ion: 59 Resp: 1913

Ion Ratio Lower Upper

59 100

57 23.7 7.8 11.6#





#13

Acrolein

Concen: 7.383 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

Instrument :

MSVOA_X

ClientSampled :

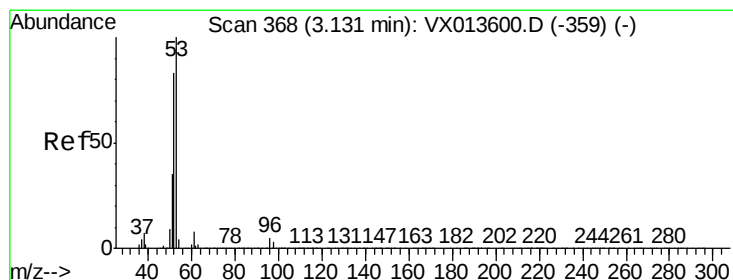
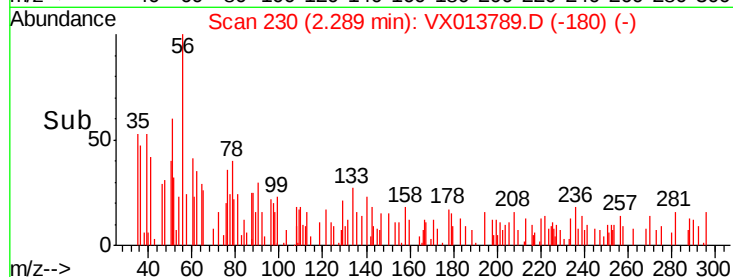
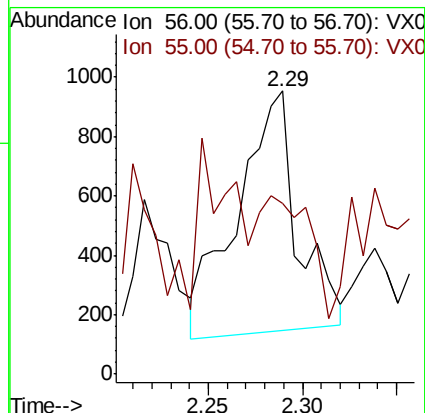
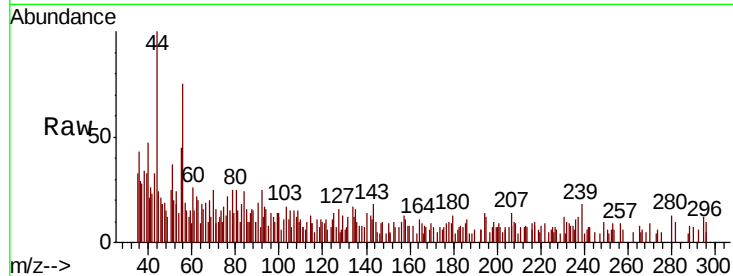
OF-3

Tot Ion: 56 Resp: 1812

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#15

Acrylonitrile

Concen: 0.366 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

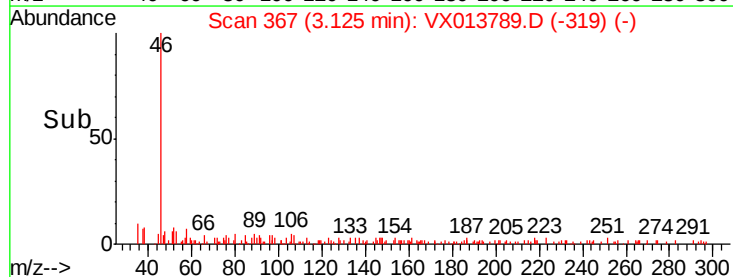
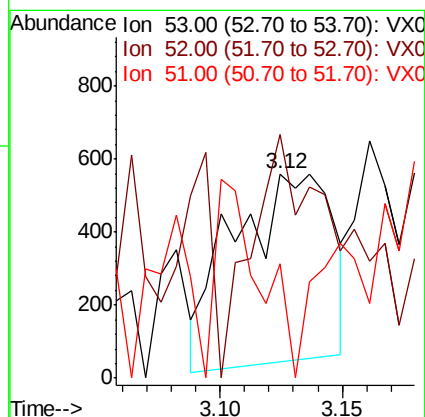
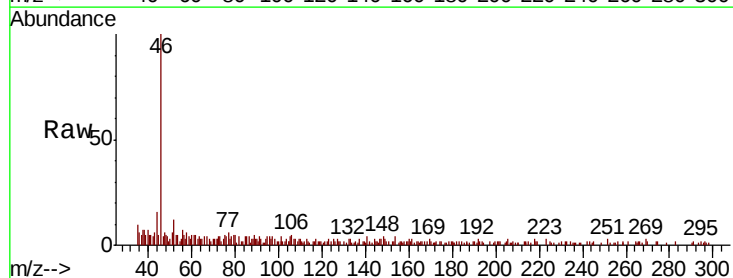
Tgt Ion: 53 Resp: 1447

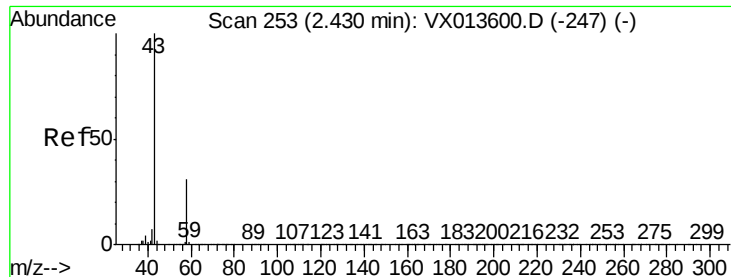
Ion Ratio Lower Upper

53 100

52 123.5 66.2 99.2#

51 0.0 29.0 43.6#





#16

Acetone

Concen: 7.640 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

Instrument :

MSVOA_X

ClientSampleId :

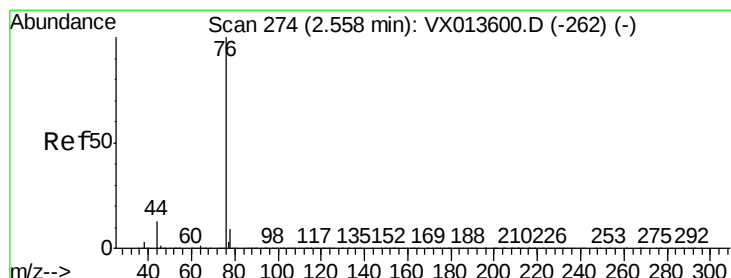
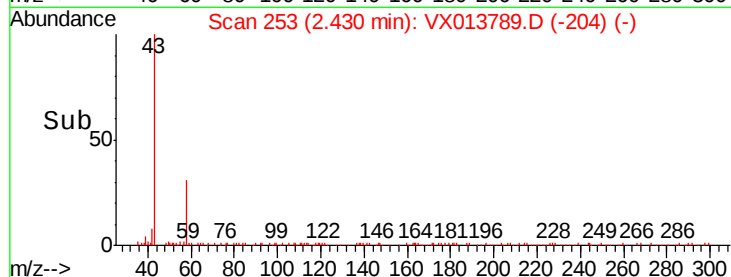
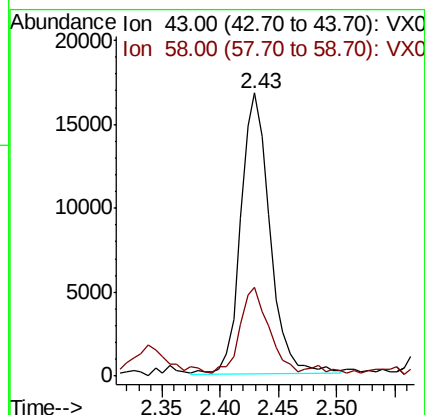
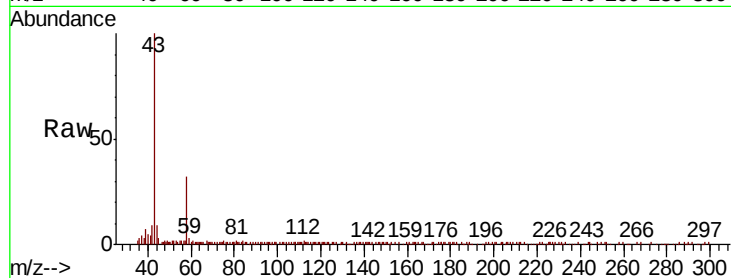
OF-3

Tot Ion: 43 Resp: 29288

Ion Ratio Lower Upper

43 100

58 30.0 24.6 36.8



#17

Carbon Disulfide

Concen: 0.265 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013789.D

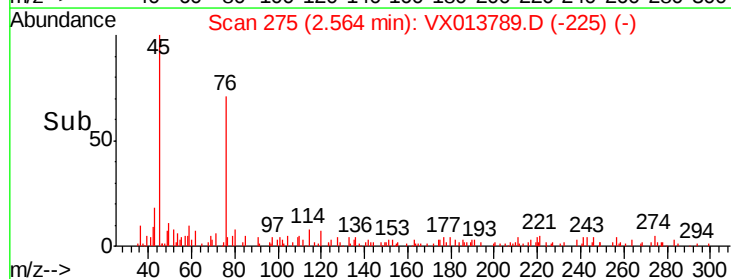
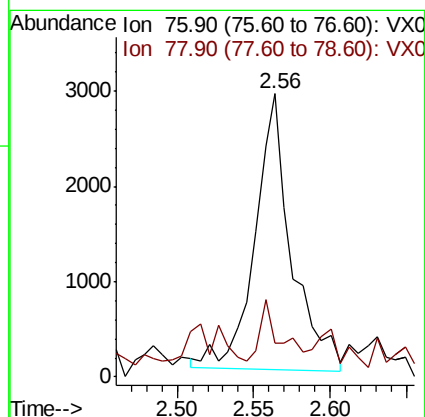
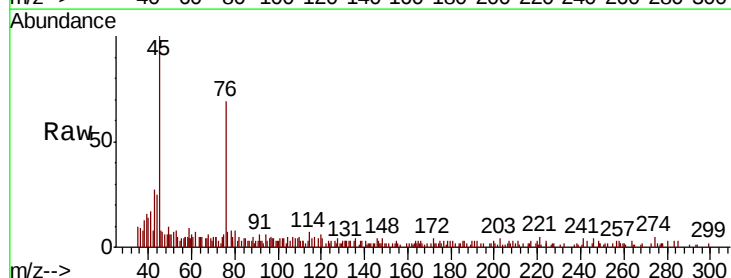
Acq: 06 Dec 2019 11:11

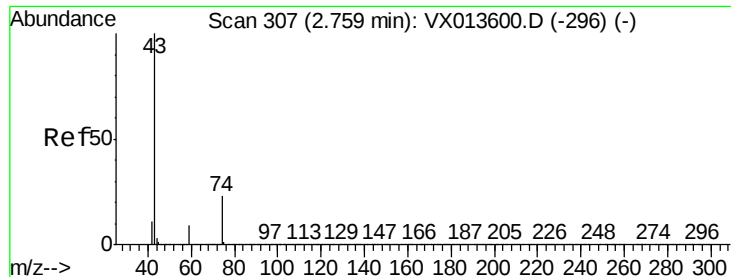
Tgt Ion: 76 Resp: 4802

Ion Ratio Lower Upper

76 100

78 7.8 7.2 10.8

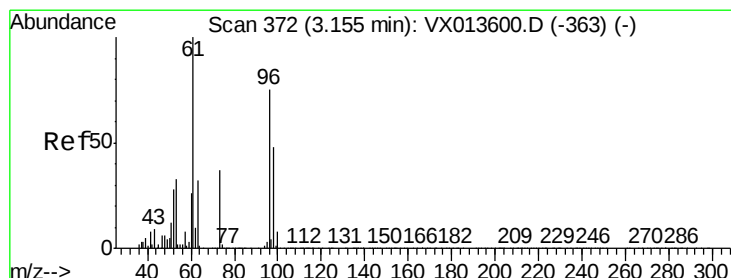
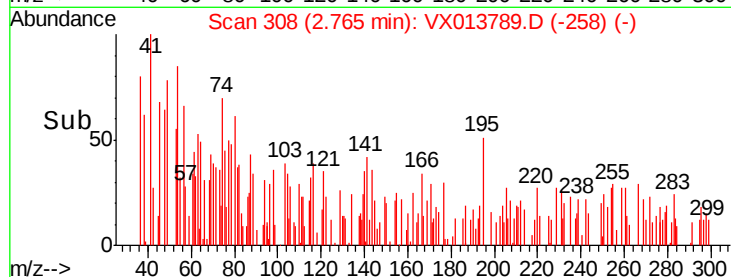
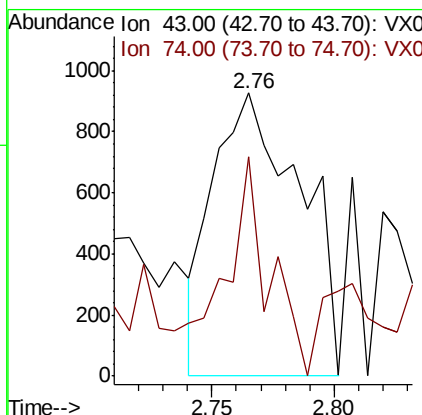
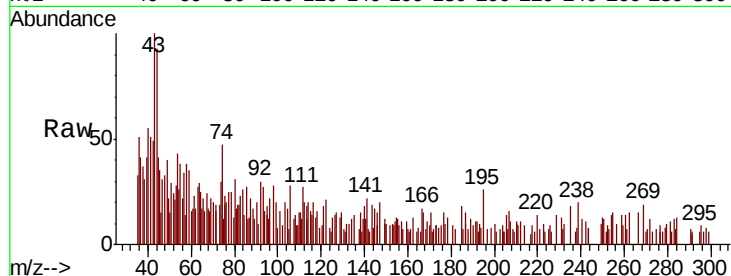




#18
Methvl Acetate
Concen: 0.216 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.01 min
Lab File: VX013789.D
Acq: 06 Dec 2019 11:11

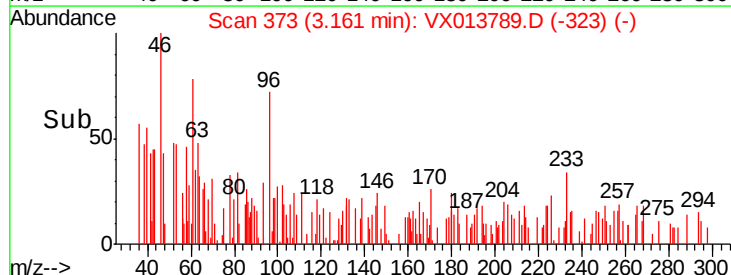
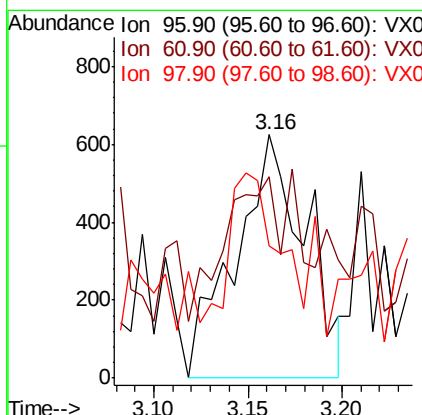
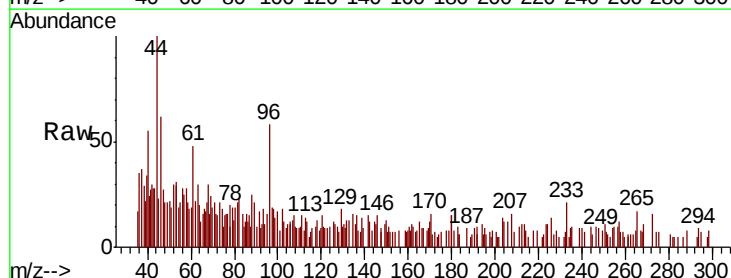
Instrument :
MSVOA_X
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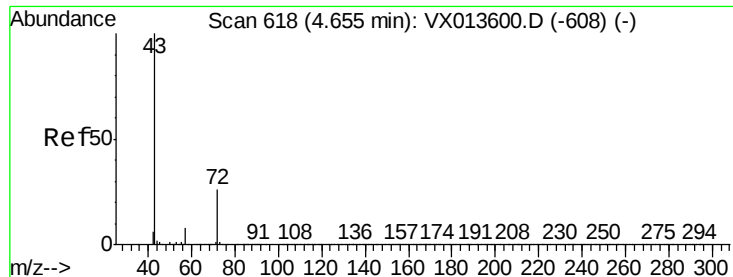
Tot Ion: 43 Resp: 2304
Ion Ratio Lower Upper
43 100
74 39.8 19.5 29.3#



#21
trans-1,2-Dichloroethene
Concen: 0.232 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013789.D
Acq: 06 Dec 2019 11:11

Tgt Ion: 96 Resp: 1612
Ion Ratio Lower Upper
96 100
61 59.8 107.2 160.8#
98 13.3 51.4 77.0#

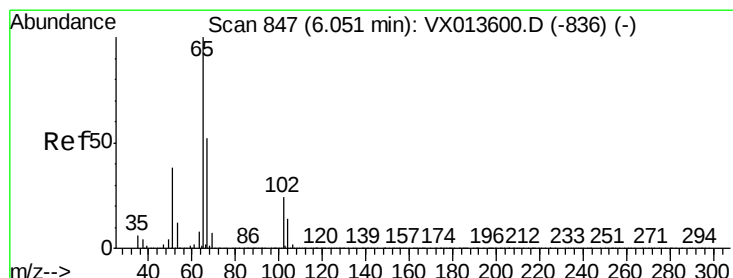
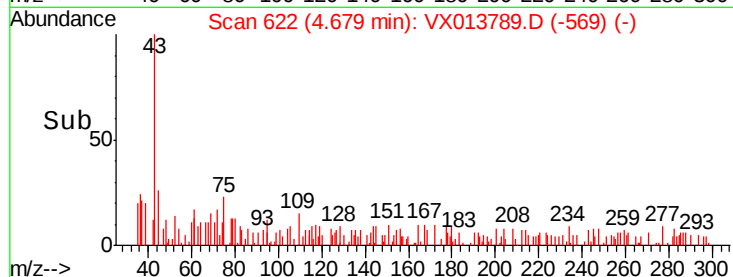
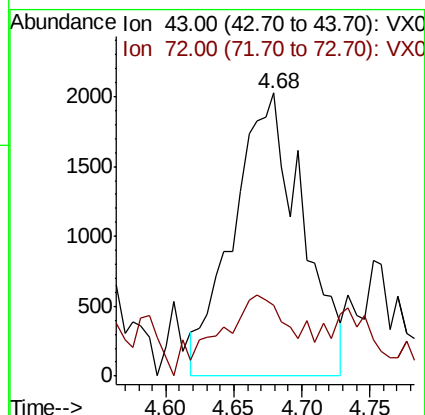
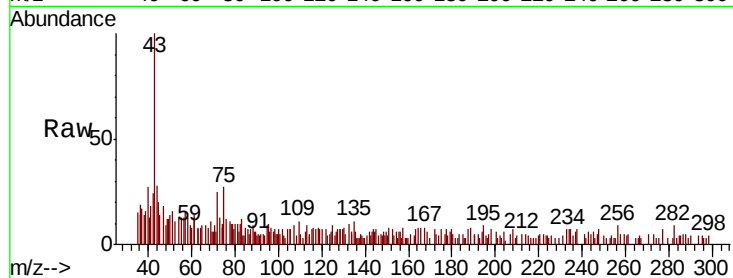




#25
2-Butanone
Concen: 1.249 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX013789.D
Acq: 06 Dec 2019 11:11

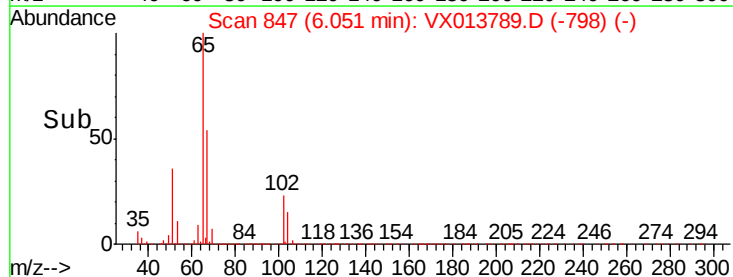
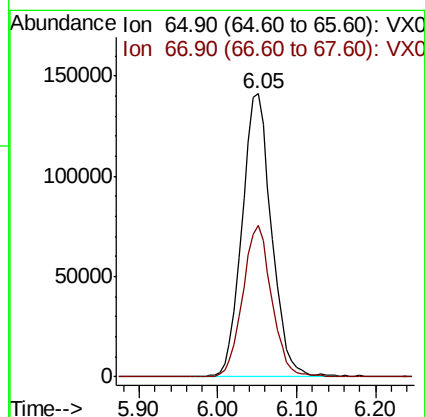
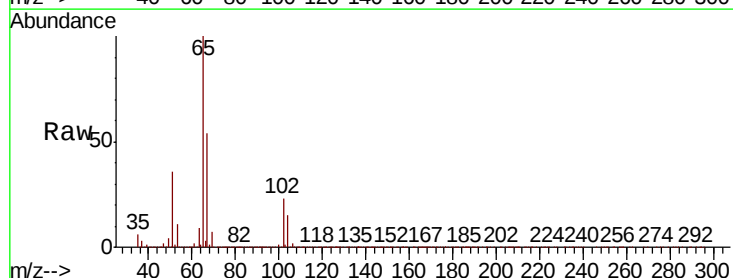
Instrument :
MSVOA_X
ClientSampled :
OF-3

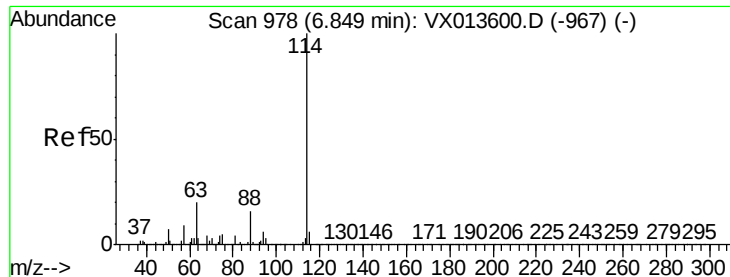
Tot Ion: 43 Resp: 7114
Ion Ratio Lower Upper
43 100
72 22.7 20.6 31.0



#33
1,2-Dichloroethane-d4
Concen: 47.236 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013789.D
Acq: 06 Dec 2019 11:11

Tgt Ion: 65 Resp: 366773
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 977

Delta R.T. -0.01 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

Instrument :

MSVOA_X

ClientSampled :

OF-3

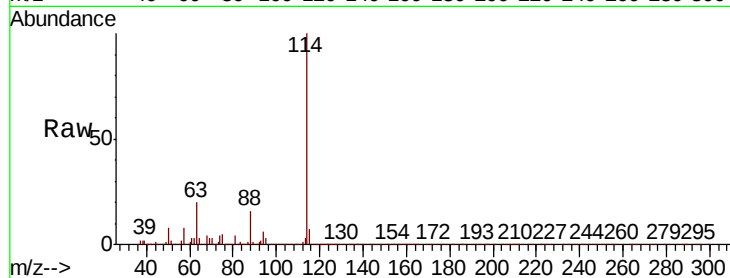
Tot Ion:114 Resp: 1012456

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

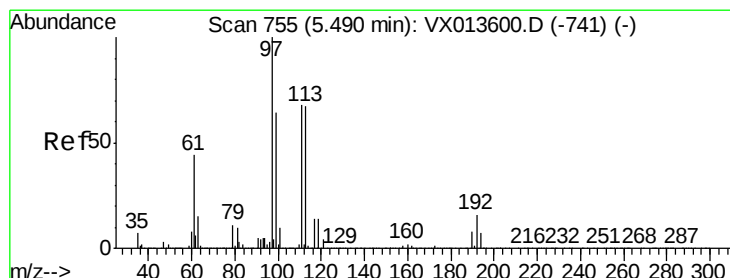
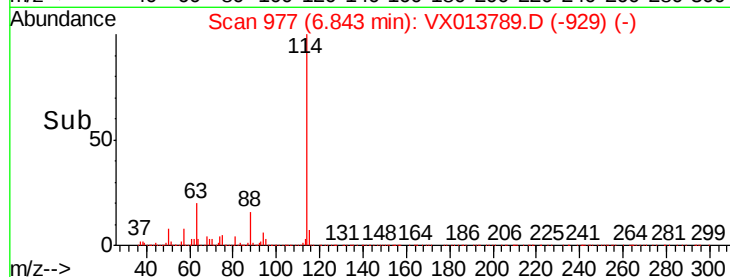
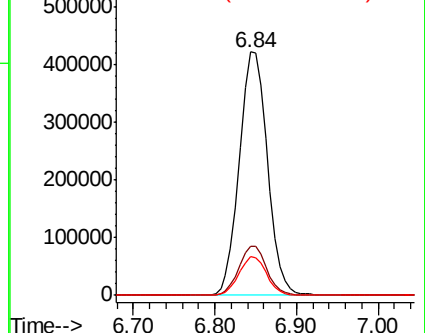
88 15.8 0.0 31.4



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: 48.555 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

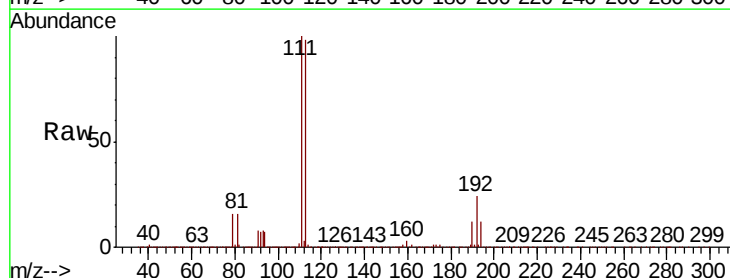
Tgt Ion:113 Resp: 303913

Ion Ratio Lower Upper

113 100

111 102.8 83.6 125.4

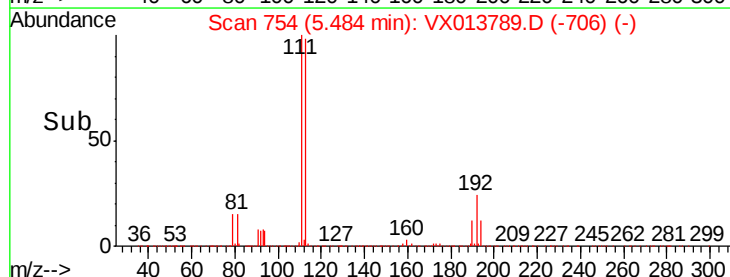
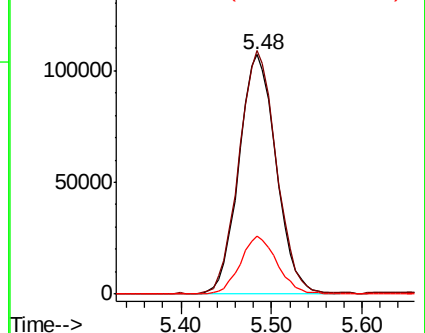
192 23.8 19.2 28.8

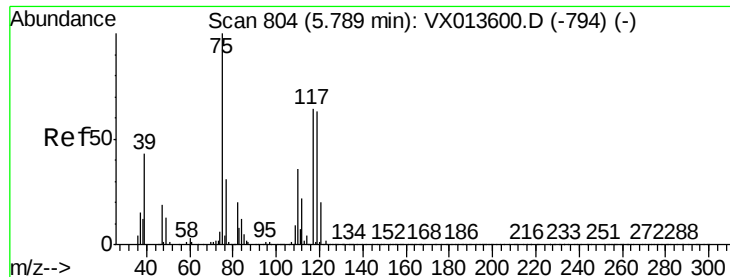


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.056 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

Instrument :

MSVOA_X

ClientSampleId :

OF-3

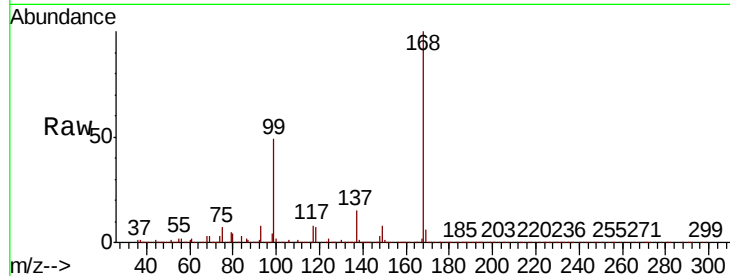
Tot Ion: 75 Resp: 46466

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.1#

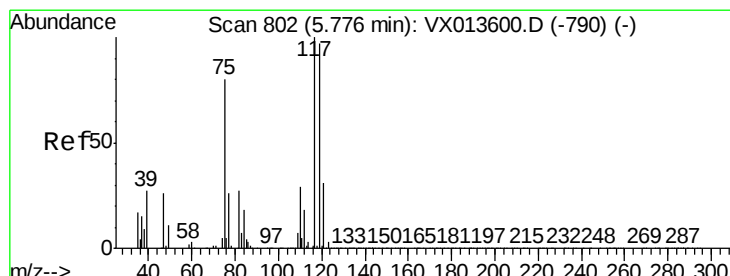
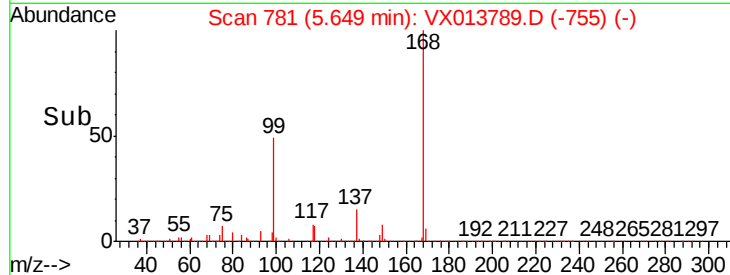
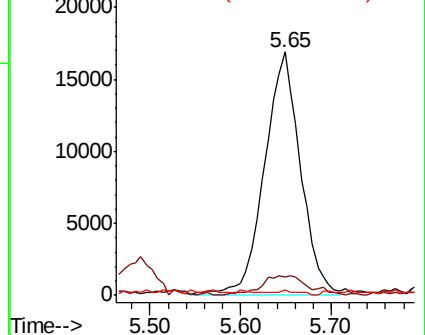
77 1.0 24.5 36.7#



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: 6.899 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

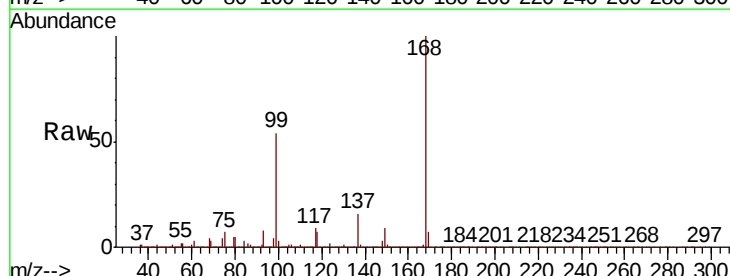
Tgt Ion: 117 Resp: 58466

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

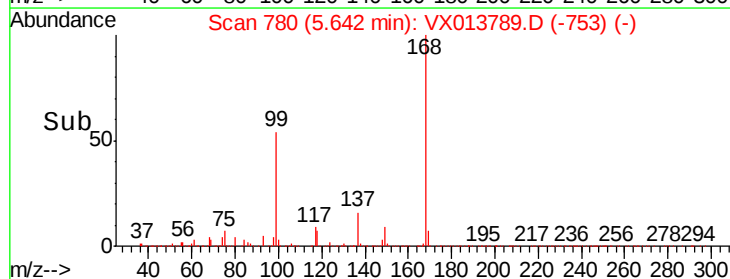
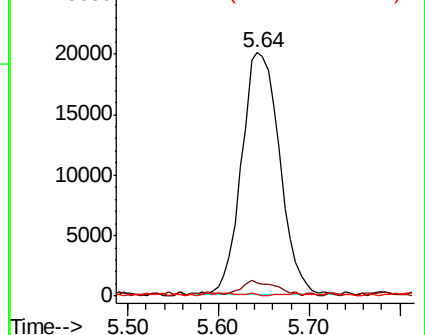
121 0.9 25.0 37.6#

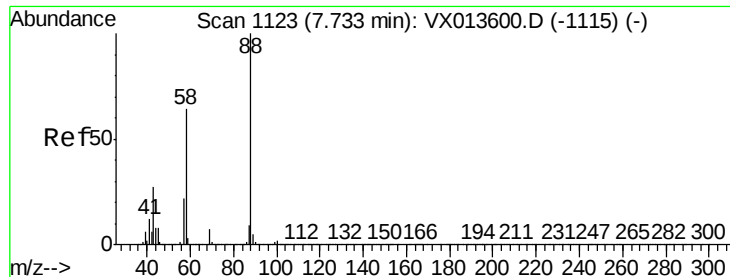


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 2.335 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

Instrument :

MSVOA_X

ClientSampled :

OF-3

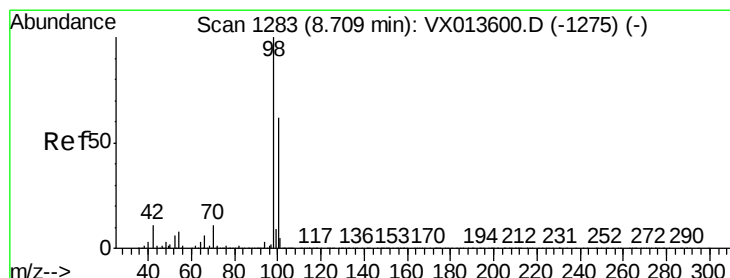
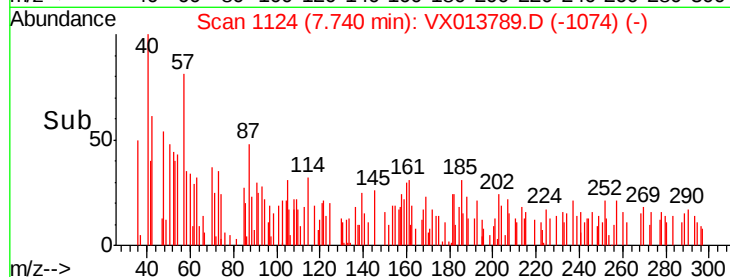
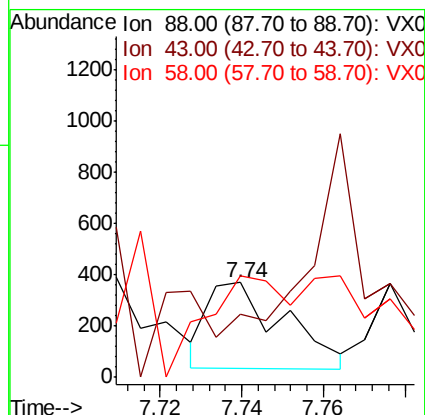
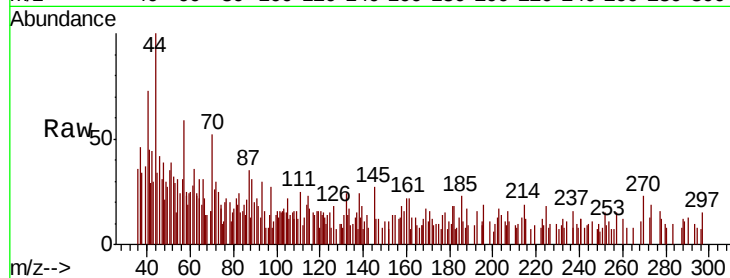
Tot Ion: 88 Resp: 431

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 37.4 54.6 82.0#



#50

Toluene-d8

Concen: 48.861 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013789.D

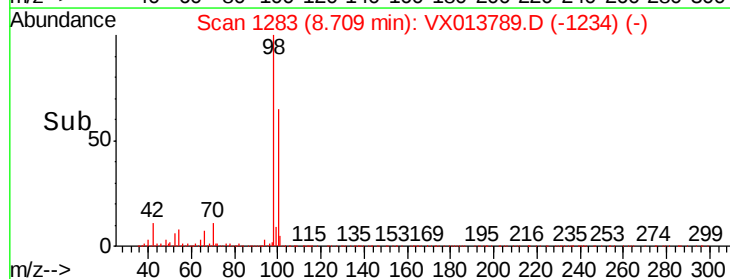
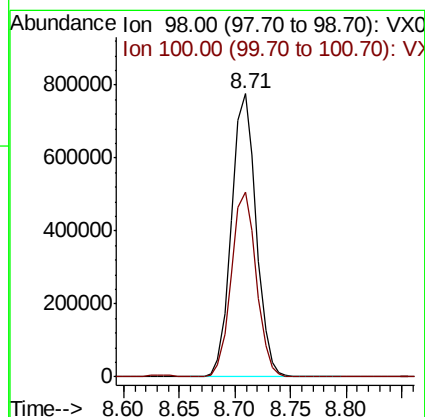
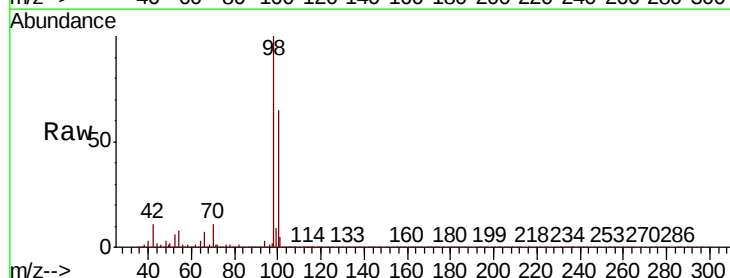
Acq: 06 Dec 2019 11:11

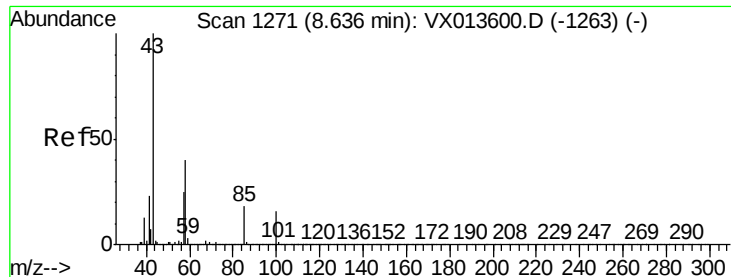
Tgt Ion: 98 Resp: 1191543

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7

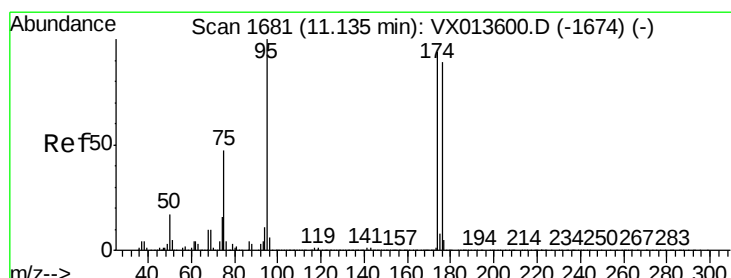
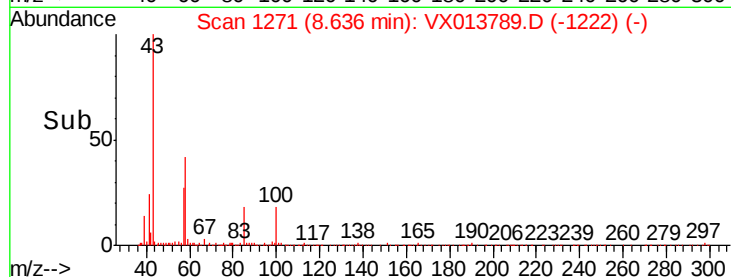
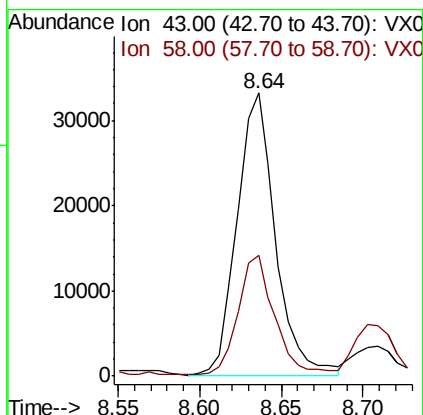
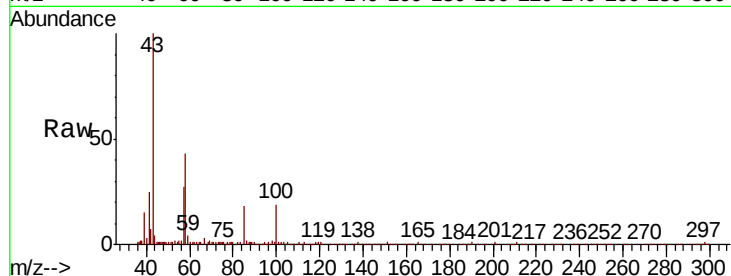




#51
 4-Methyl-2-Pentanone
 Concen: 5.133 ug/l
 RT: 8.64 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VX013789.D
 Acq: 06 Dec 2019 11:11

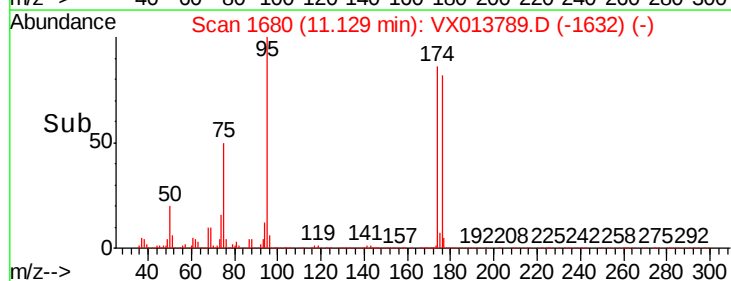
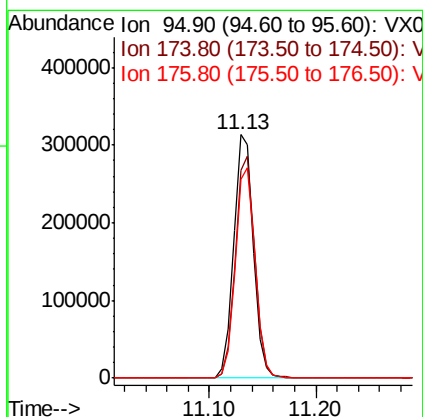
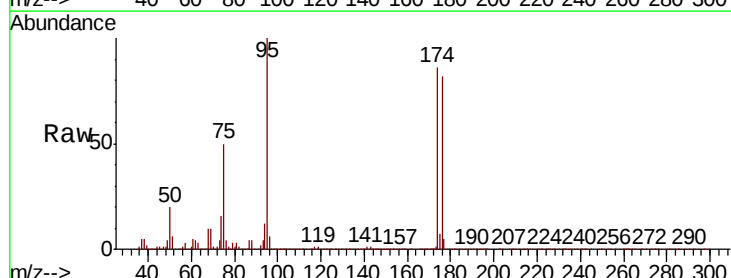
Instrument :
 MSVOA_X
 ClientSampleId :
 OF-3

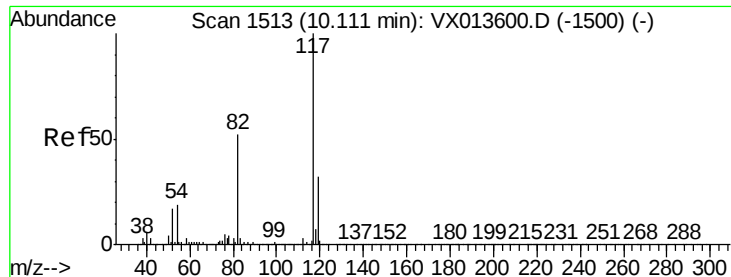
Tot Ion: 43 Resp: 54806
 Ion Ratio Lower Upper
 43 100
 58 39.9 32.1 48.1



#62
 4-Bromofluorobenzene
 Concen: 46.270 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.01 min
 Lab File: VX013789.D
 Acq: 06 Dec 2019 11:11

Tgt Ion: 95 Resp: 406889
 Ion Ratio Lower Upper
 95 100
 174 90.9 0.0 180.0
 176 87.5 0.0 173.6

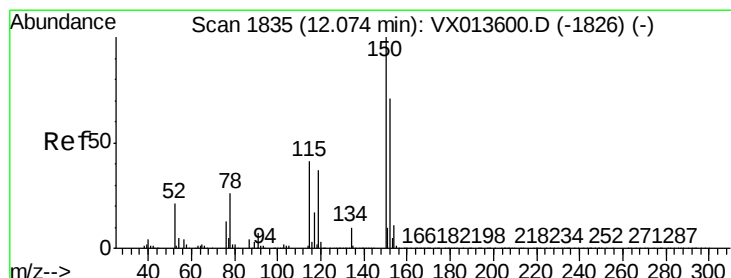
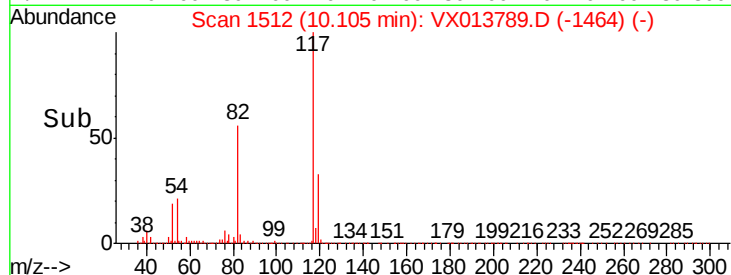
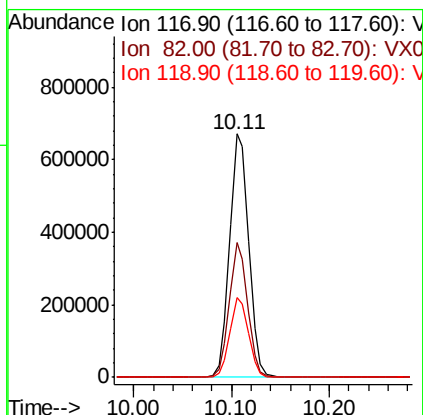
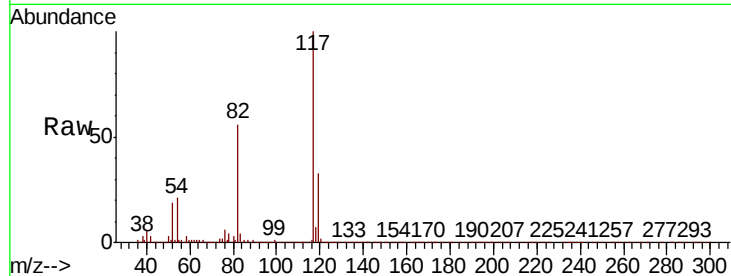




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013789.D
Acq: 06 Dec 2019 11:11

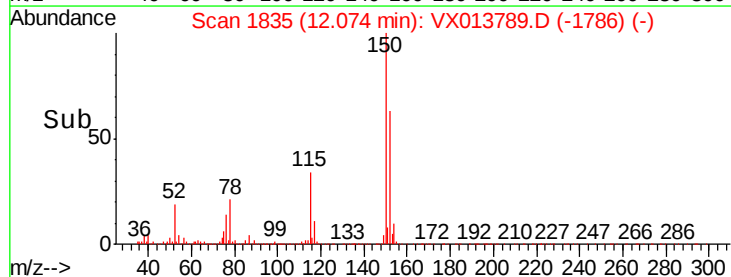
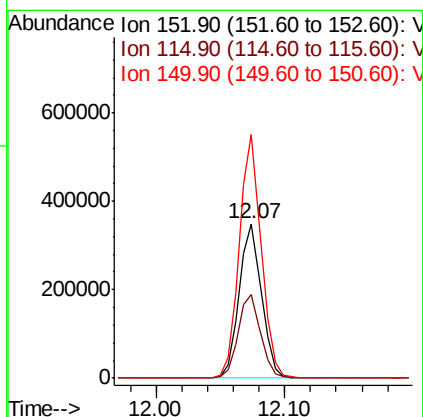
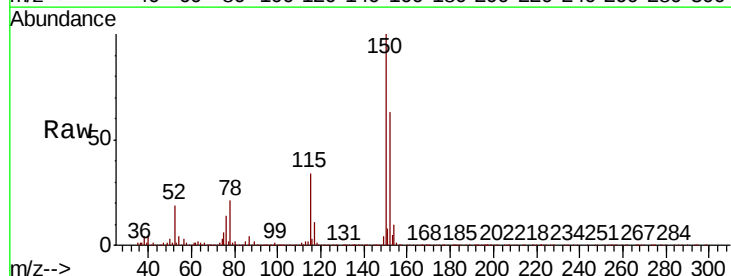
Instrument :
MSVOA_X
ClientSampleId :
OF-3

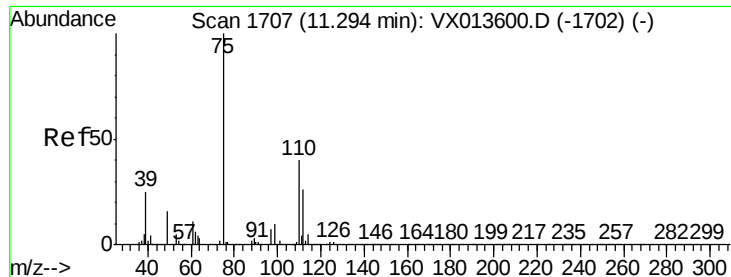
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	41.8	62.8
119	32.6	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013789.D
Acq: 06 Dec 2019 11:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.5	38.4	115.1
150	154.7	0.0	346.8





#76

1,2,3-Trichloropropane

Concen: 21.005 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

Instrument :

MSVOA_X

ClientSampleId :

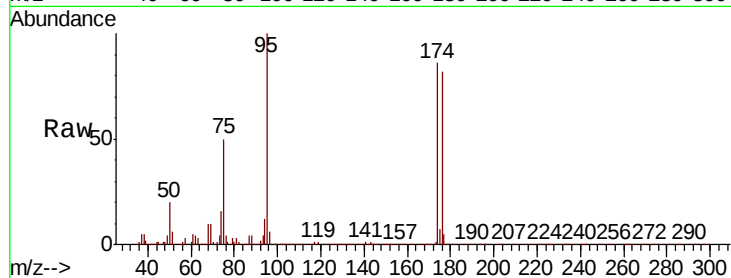
OF-3

Tot Ion: 75 Resp: 198719

Ion Ratio Lower Upper

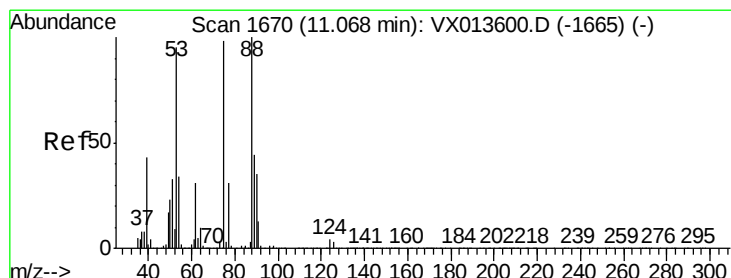
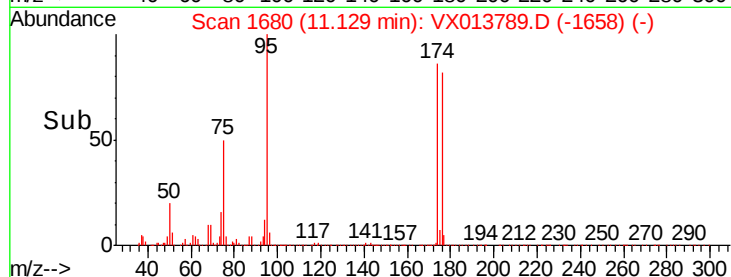
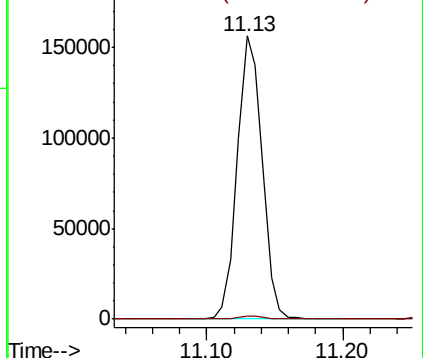
75 100

77 1.1 19.1 57.5#



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: 57.465 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013789.D

Acq: 06 Dec 2019 11:11

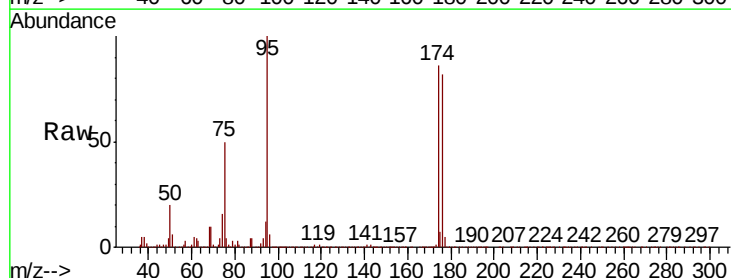
Tgt Ion: 75 Resp: 198719

Ion Ratio Lower Upper

75 100

53 0.4 78.2 117.2#

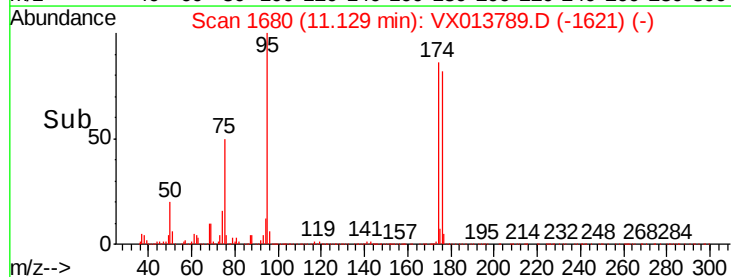
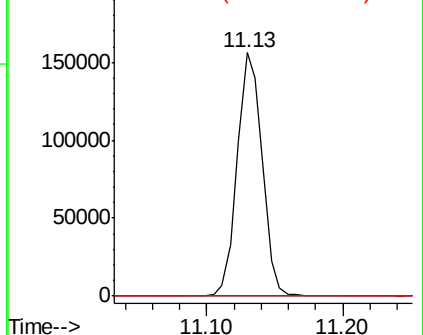
89 0.1 35.4 53.2#

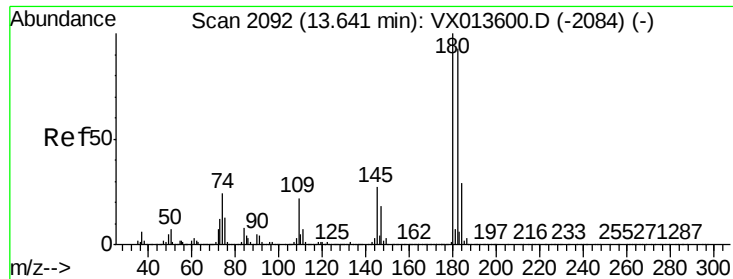


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

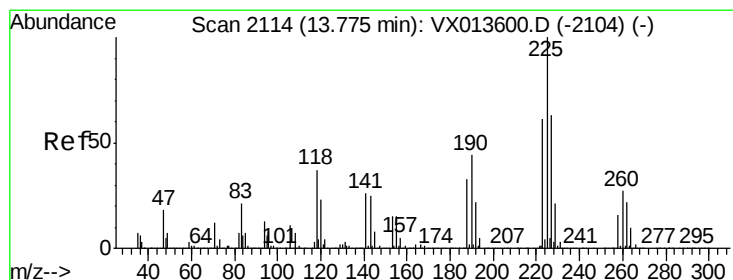
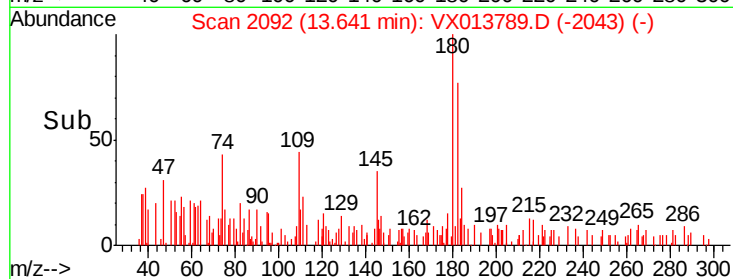
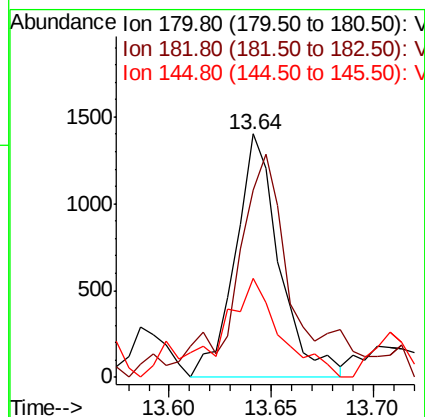
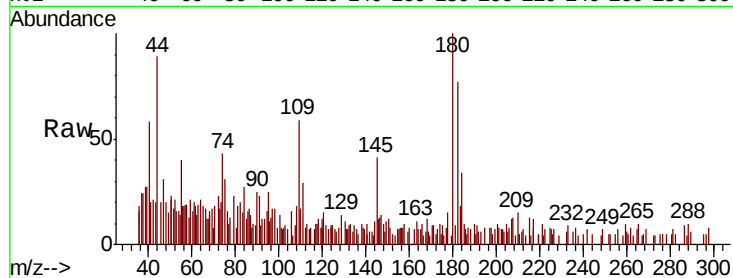




#93
 1,2,4-Trichlorobenzene
 Concen: 0.219 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX013789.D
 Acq: 06 Dec 2019 11:11

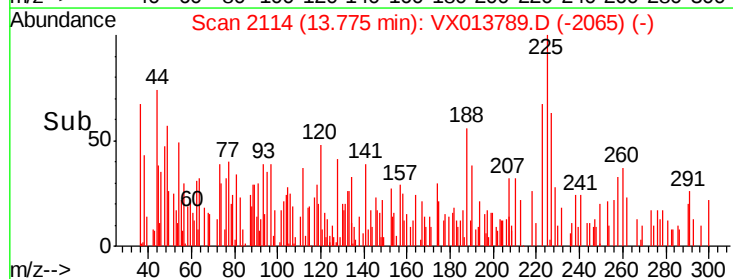
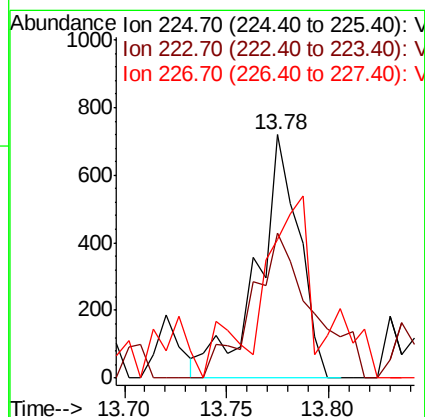
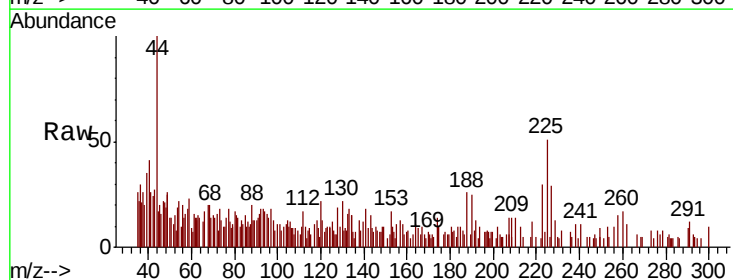
Instrument :
 MSVOA_X
 ClientSampled :
 OF-3

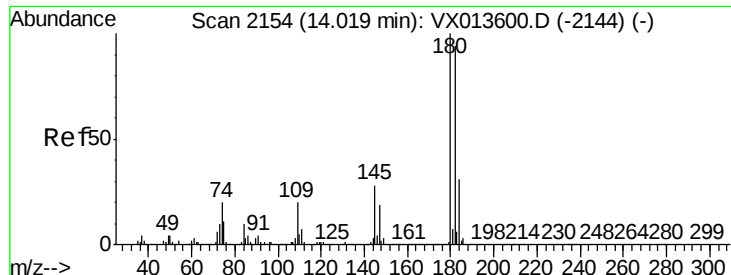
Tot Ion:180 Resp: 2094
 Ion Ratio Lower Upper
 180 100
 182 119.2 47.2 141.6
 145 49.0 13.8 41.4#



#94
 Hexachlorobutadiene
 Concen: 0.220 ug/l
 RT: 13.78 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VX013789.D
 Acq: 06 Dec 2019 11:11

Tgt Ion:225 Resp: 1013
 Ion Ratio Lower Upper
 225 100
 223 88.0 31.9 95.5
 227 71.4 32.1 96.3

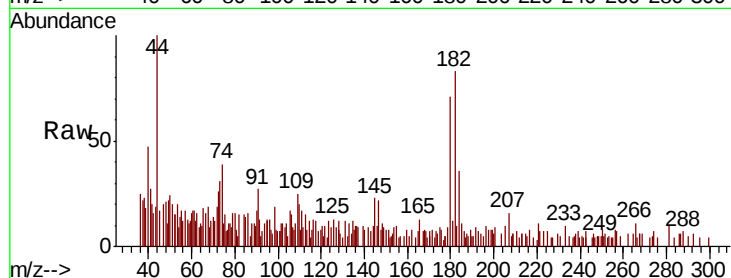




#96
 1,2,3-Trichlorobenzene
 Concen: 0.203 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VX013789.D
 Acq: 06 Dec 2019 11:11

Instrument :
 MSVOA_X
 ClientSampleId :
 OF-3

Tot Ion:180 Resp: 1927
 Ion Ratio Lower Upper
 180 100
 182 128.2 47.6 142.8
 145 54.7 15.0 45.0#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

