

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\
 Data File : VX014152.D
 Acq On : 20 Dec 2019 04:52
 Operator : JC/SP
 Sample : K6372-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 20 05:45:45 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	564969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	870796	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	773037	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	345119	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	309382	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
35) Dibromofluoromethane	5.49	113	254963	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
50) Toluene-d8	8.71	98	1020960	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
62) 4-Bromofluorobenzene	11.13	95	345434	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	

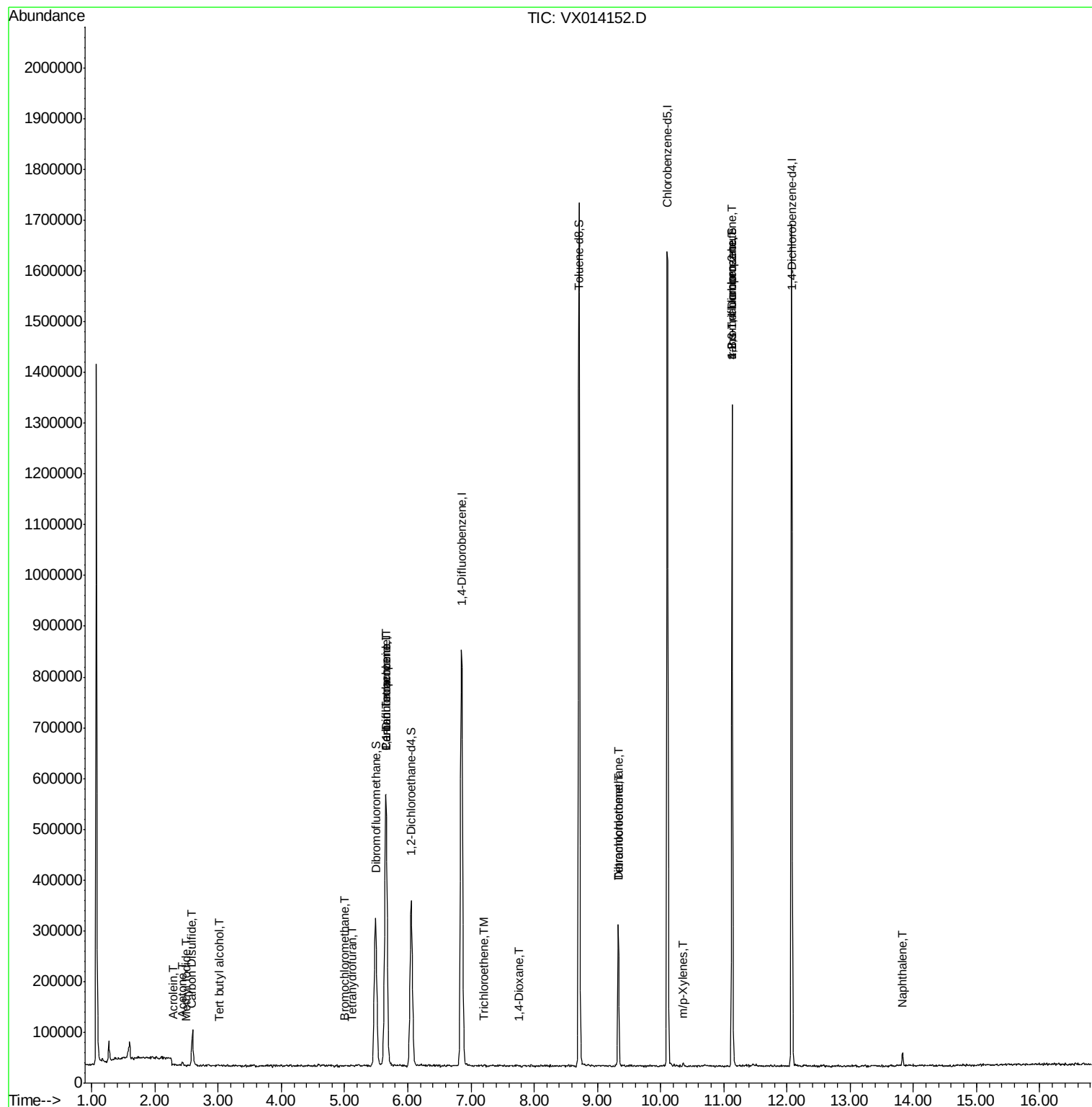
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.49	142	321	2.664	ug/l #	54
11) Tert butyl alcohol	3.03	59	959	0.693	ug/l #	1
13) Acrolein	2.28	56	716	0.904	ug/l #	14
16) Acetone	2.43	43	7439	1.790	ug/l	92
17) Carbon Disulfide	2.57	76	781	0.801	ug/l #	75
28) Bromochloromethane	5.00	49	93	0.476	ug/l #	1
29) Tetrahydrofuran	5.12	42	768	0.268	ug/l #	76
36) 1,1-Dichloropropene	5.65	75	37054	4.638	ug/l #	52
38) Carbon Tetrachloride	5.65	117	49076	6.742	ug/l #	17
44) Trichloroethene	7.20	130	1835	0.270	ug/l	83
49) 1,4-Dioxane	7.75	88	256	1.759	ug/l #	67
60) Dibromochloromethane	9.33	129	49755	8.037	ug/l #	11
64) Tetrachloroethene	9.33	164	56800	8.304	ug/l	96
68) m/p-Xylenes	10.36	106	2830	0.260	ug/l #	68
76) 1,2,3-Trichloropropane	11.13	75	168966	22.551	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	168966	63.652	ug/l #	12
95) Naphthalene	13.83	128	17864	0.793	ug/l #	94

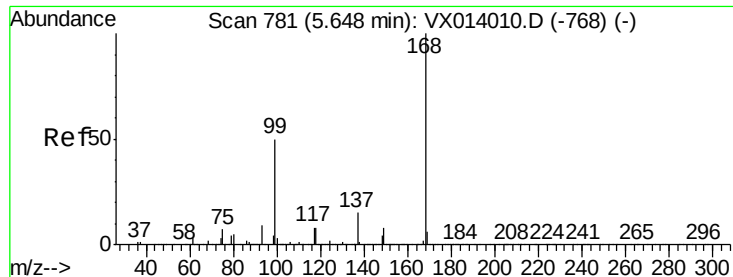
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 781

Delta R.T. 0.00 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :

MSVOA_X

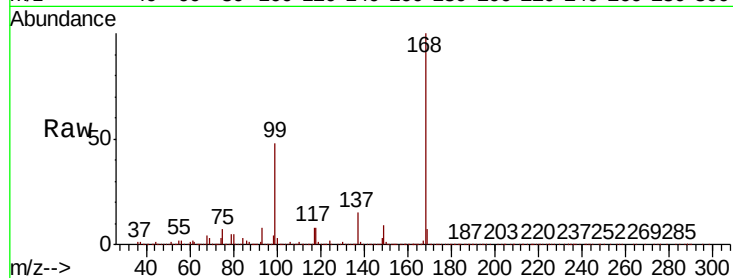
ClientSampled :

Tot Ion:168 Resp: 564969

Ion Ratio Lower Upper

168 100

99 48.1 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

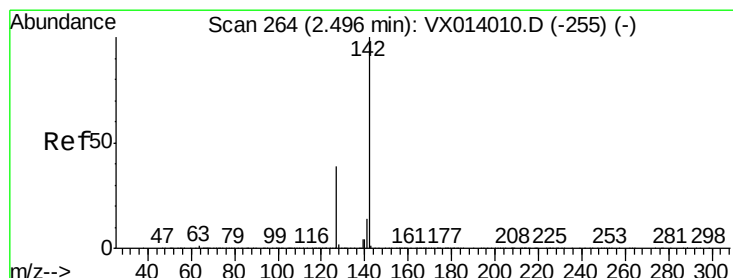
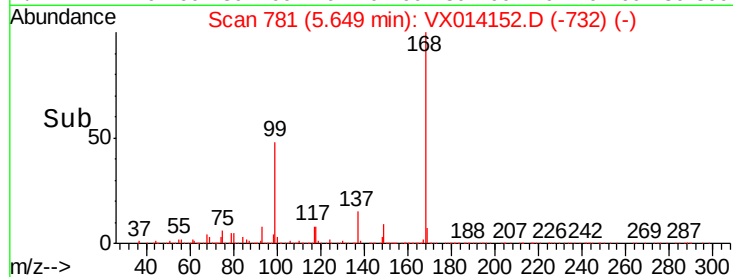
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 2.664 ug/l

RT: 2.49 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

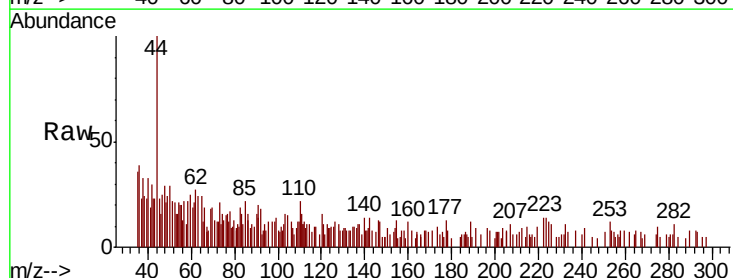
Tgt Ion:142 Resp: 321

Ion Ratio Lower Upper

142 100

127 70.4 31.6 47.4#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

400

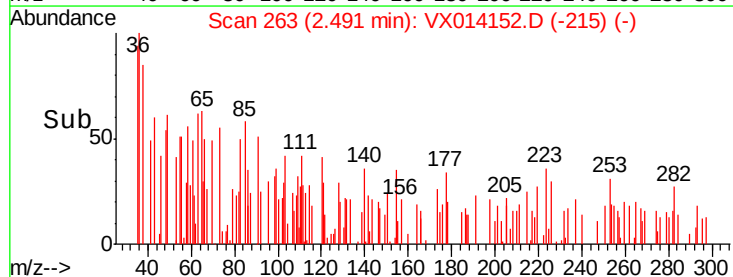
300

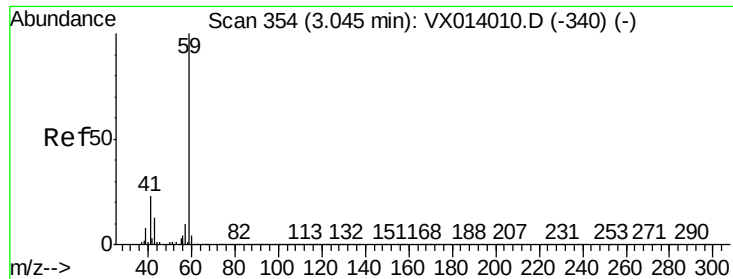
200

100

0

Time-->



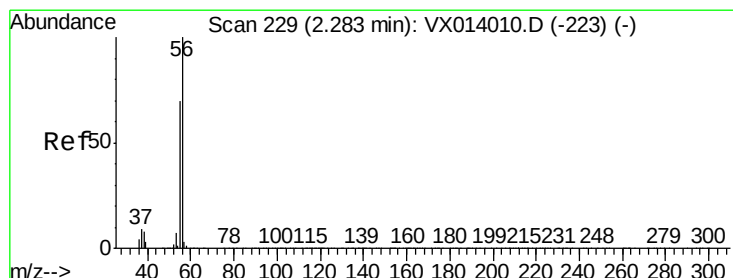
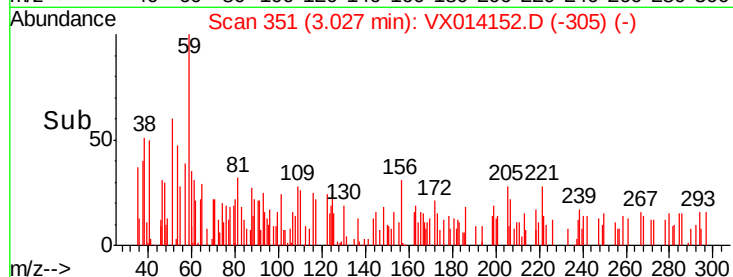
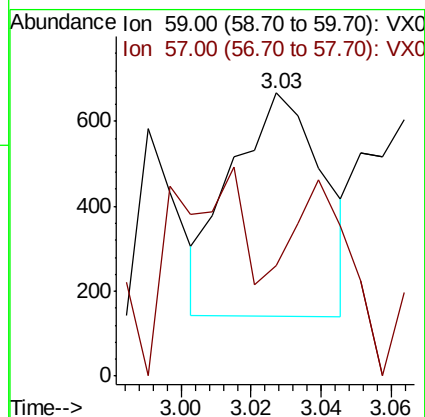
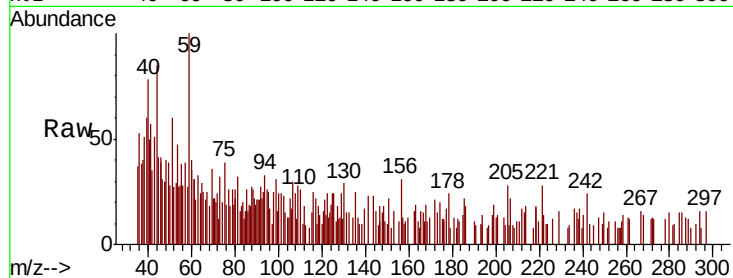


#11

Tert butyl alcohol
Concen: 0.693 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.02 min
Lab File: VX014152.D
Acq: 20 Dec 2019 04:52

Instrument :
MSVOA_X
ClientSampled :

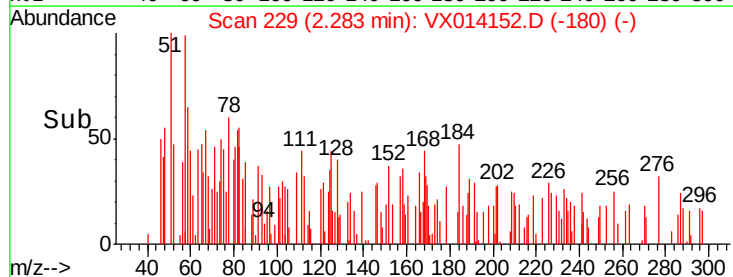
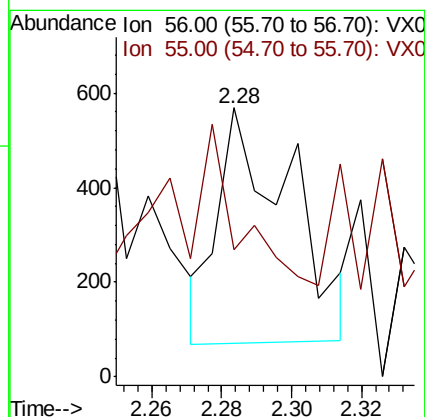
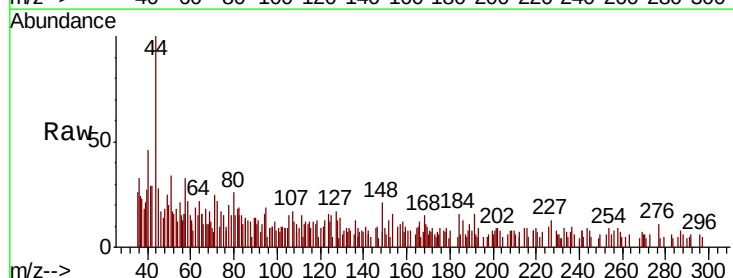
Tot Ion: 59 Resp: 959
Ion Ratio Lower Upper
59 100
57 53.4 8.4 12.6#

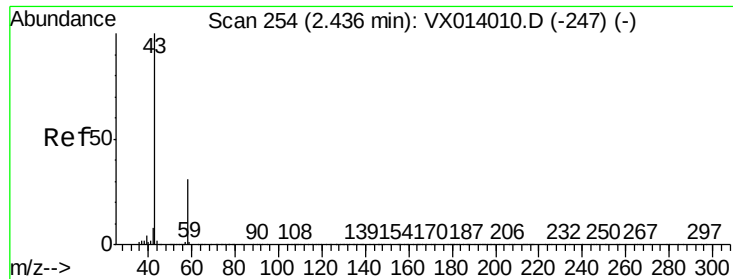


#13

Acrolein
Concen: 0.904 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014152.D
Acq: 20 Dec 2019 04:52

Tgt Ion: 56 Resp: 716
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#16

Acetone

Concen: 1.790 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :

MSVOA_X

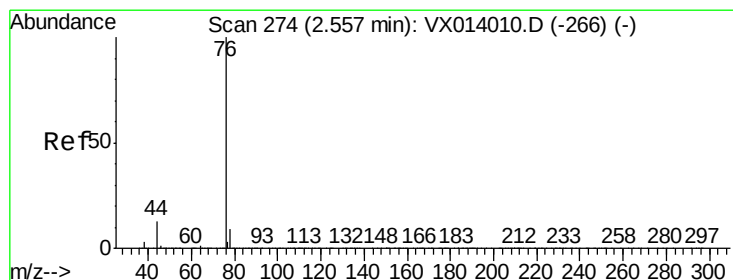
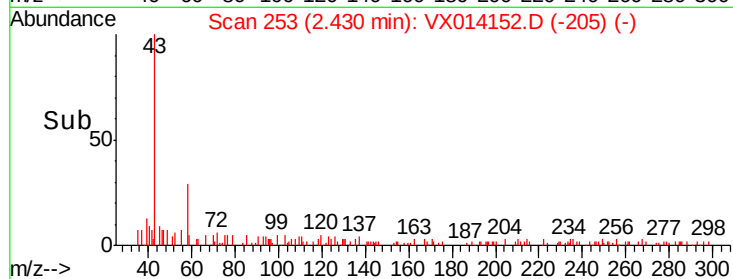
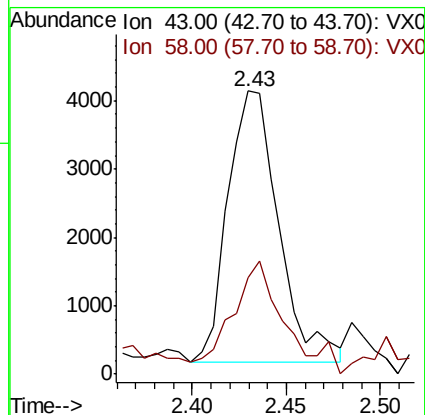
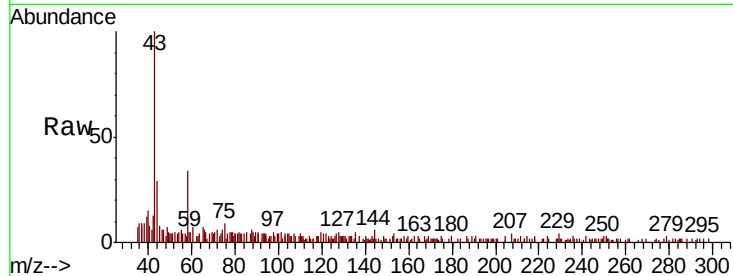
ClientSampleId :

Tot Ion: 43 Resp: 7439

Ion Ratio Lower Upper

43 100

58 35.8 24.9 37.3



#17

Carbon Disulfide

Concen: 0.801 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014152.D

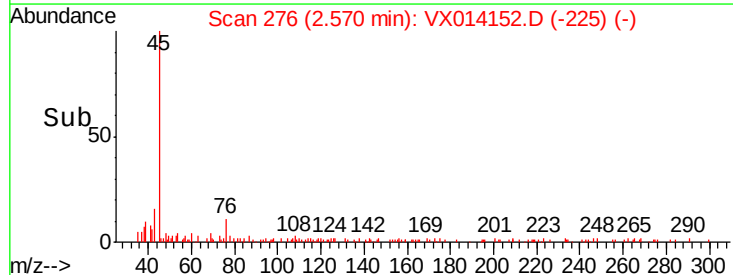
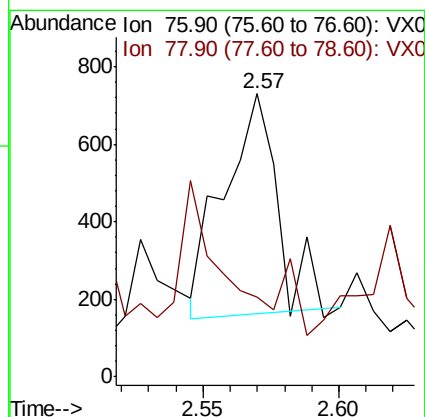
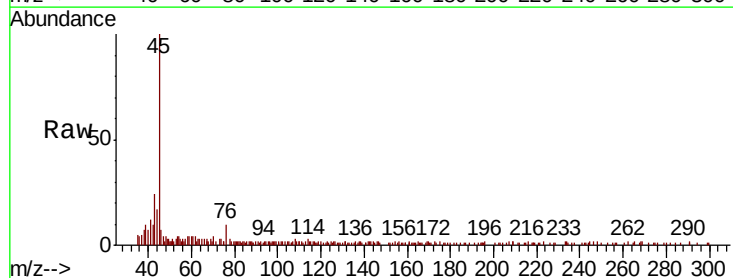
Acq: 20 Dec 2019 04:52

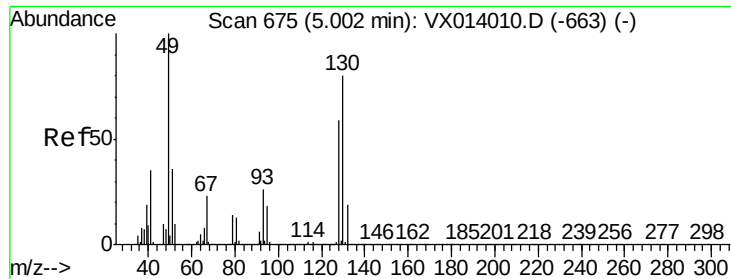
Tgt Ion: 76 Resp: 781

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#





#28

Bromochloromethane

Concen: 0.476 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :

MSVOA_X

ClientSampled :

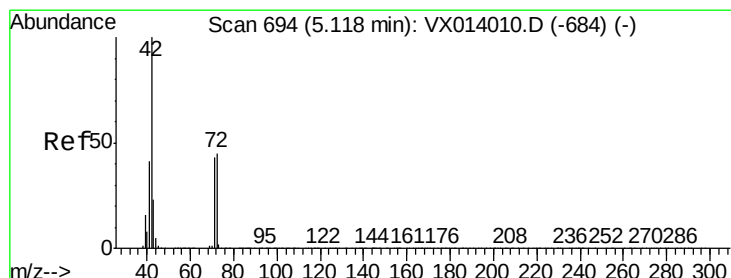
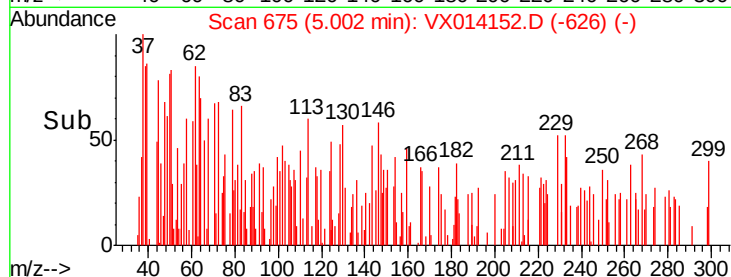
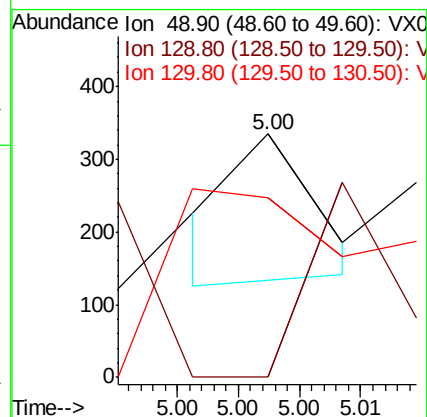
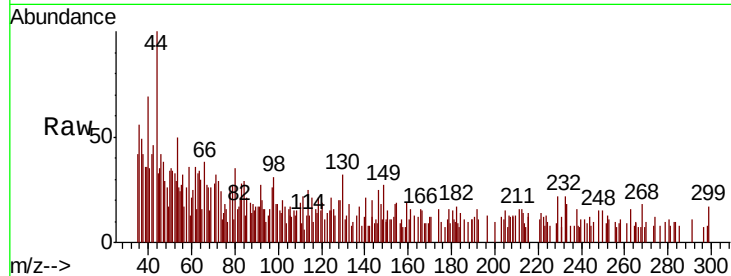
Tot Ion: 49 Resp: 93

Ion Ratio Lower Upper

49 100

129 201.1 0.0 5.0#

130 265.6 64.6 97.0#



#29

Tetrahydrofuran

Concen: 0.268 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.00 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

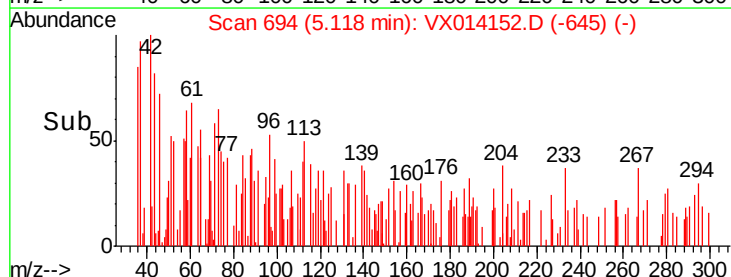
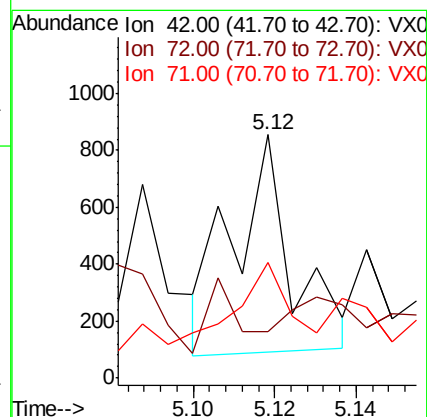
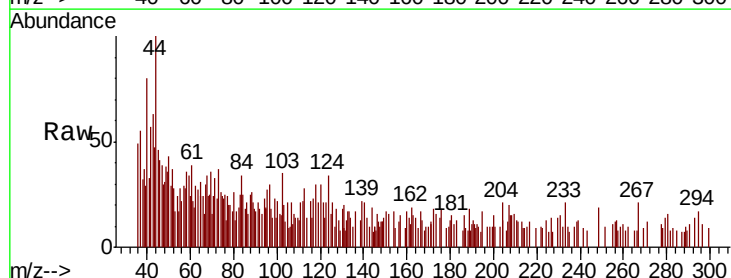
Tgt Ion: 42 Resp: 768

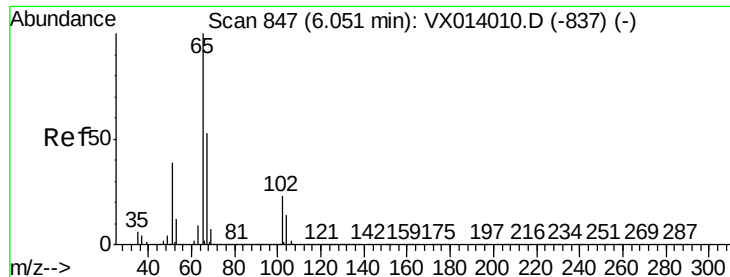
Ion Ratio Lower Upper

42 100

72 19.9 35.8 53.8#

71 47.5 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 48.317 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :

MSVOA_X

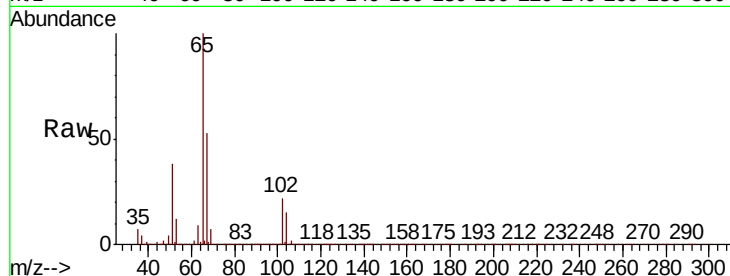
ClientSampleId :

Tot Ion: 65 Resp: 309382

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

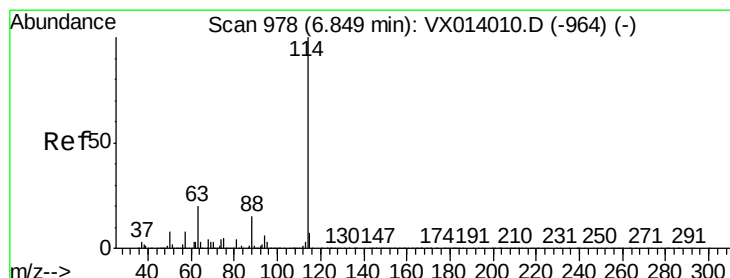
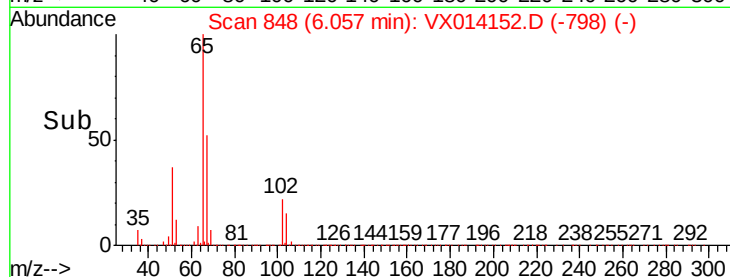
100000

50000

0

Time-->

6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

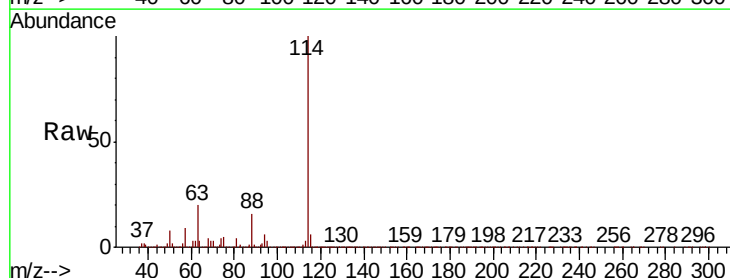
Tgt Ion: 114 Resp: 870796

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

88 15.6 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

500000

400000

300000

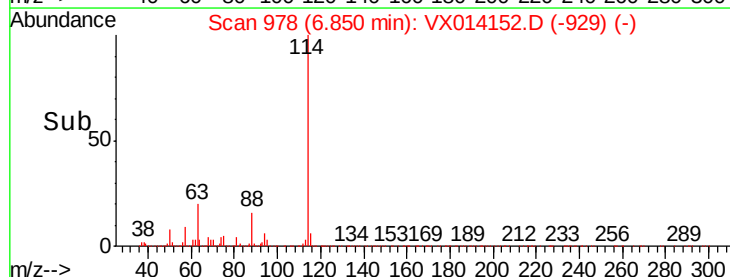
200000

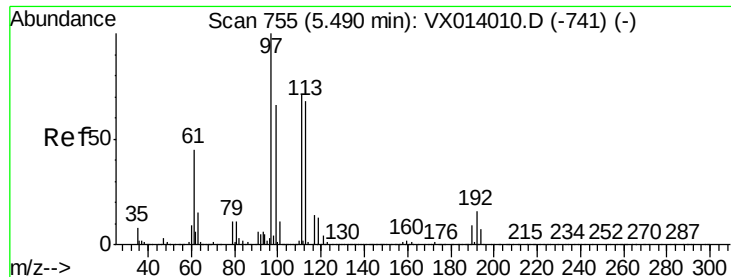
100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.165 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :
MSVOA_X
ClientSampleId :

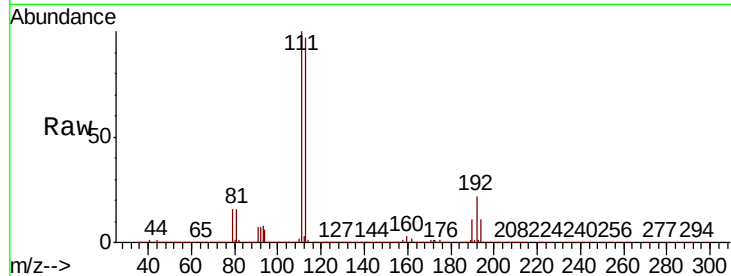
Tot Ion:113 Resp: 254963

Ion Ratio Lower Upper

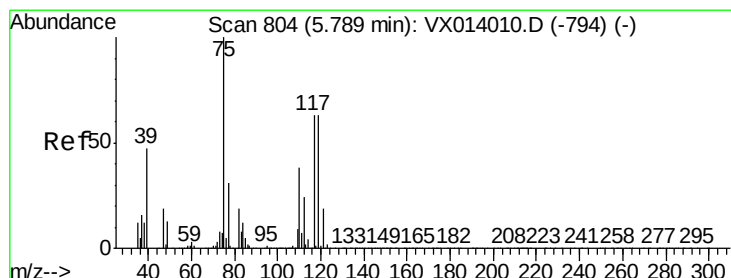
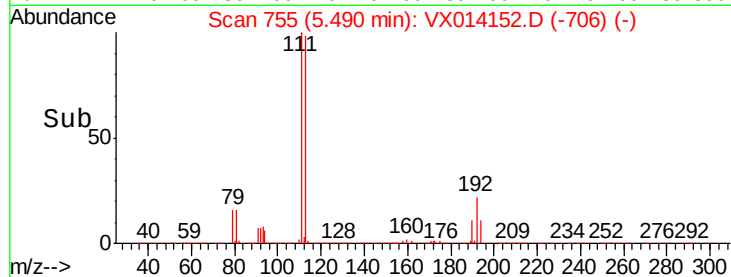
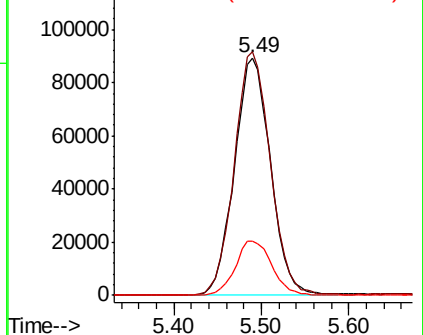
113 100

111 103.0 82.0 123.0

192 23.4 19.3 28.9



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: 4.638 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

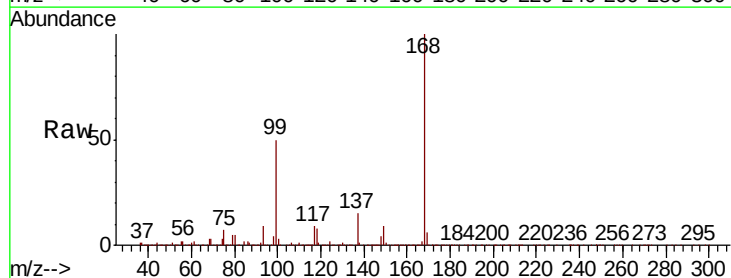
Tgt Ion: 75 Resp: 37054

Ion Ratio Lower Upper

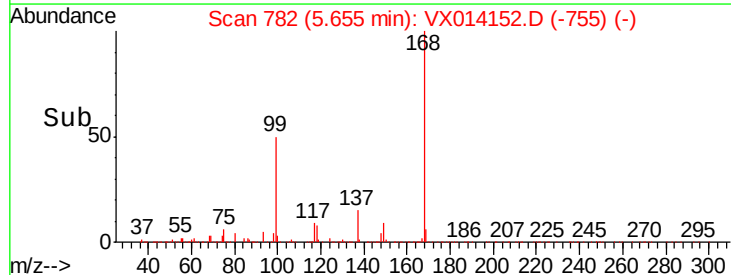
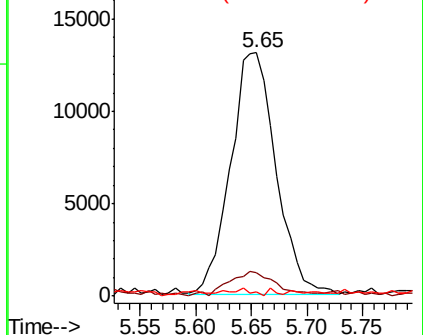
75 100

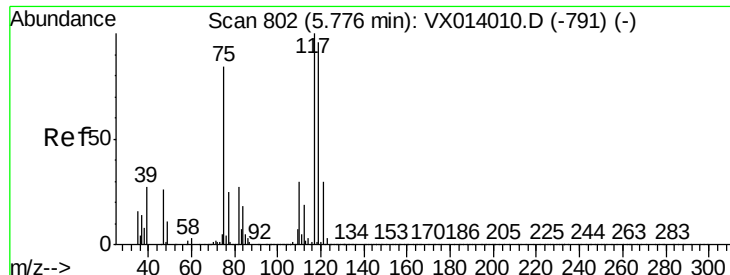
110 10.9 18.3 54.9#

77 1.6 24.8 37.2#



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: 6.742 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :

MSVOA_X

ClientSampleId :

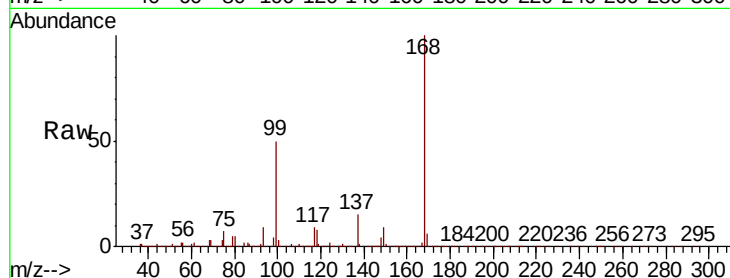
Tot Ion:117 Resp: 49076

Ion Ratio Lower Upper

117 100

119 6.2 76.2 114.4#

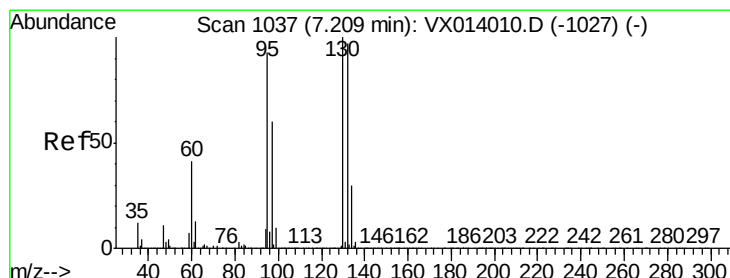
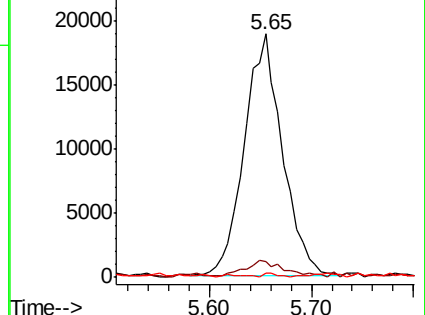
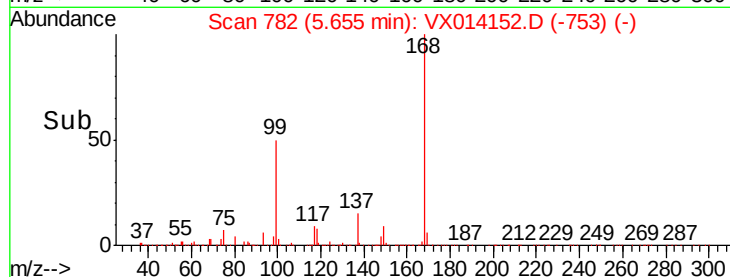
121 0.9 23.6 35.4#



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



#44

Trichloroethene

Concen: 0.270 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX014152.D

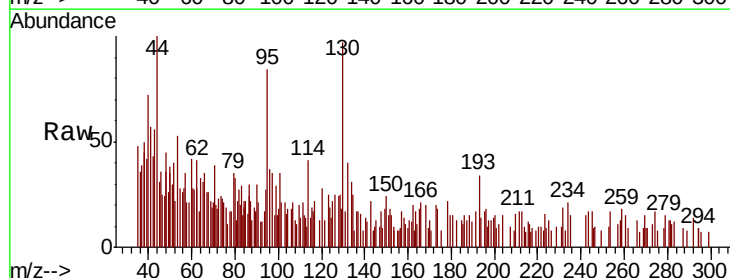
Acq: 20 Dec 2019 04:52

Tgt Ion:130 Resp: 1835

Ion Ratio Lower Upper

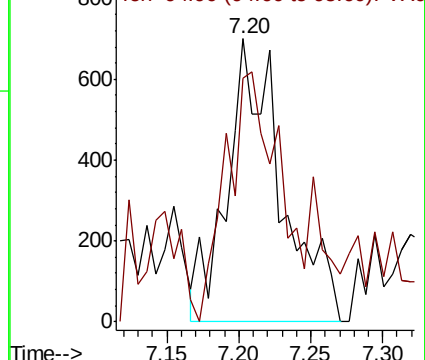
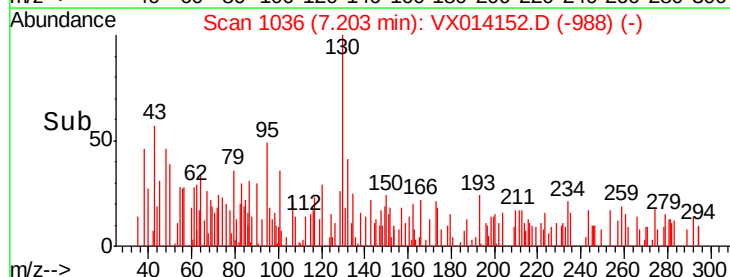
130 100

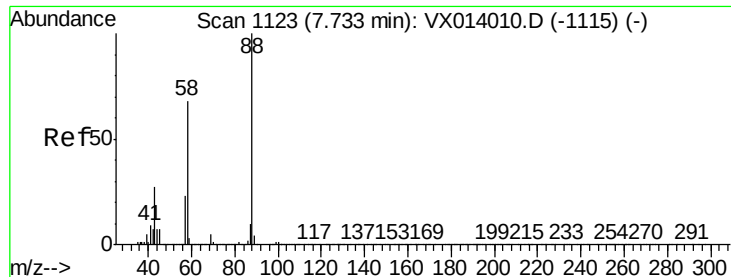
95 76.9 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.759 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :

MSVOA_X

ClientSampleId :

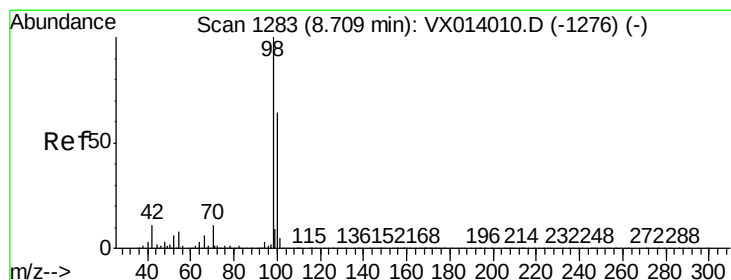
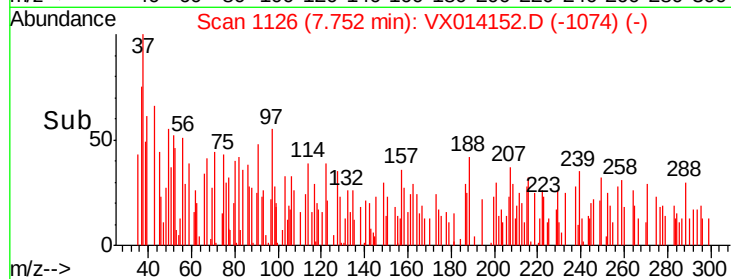
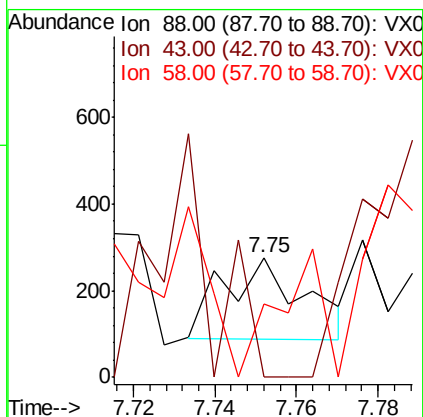
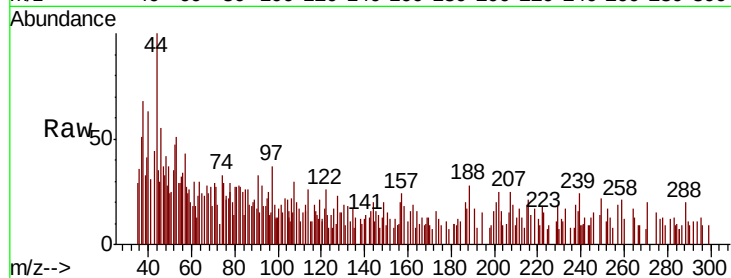
Tot Ion: 88 Resp: 256

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 87.9 56.8 85.2#



#50

Toluene-d8

Concen: 49.540 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014152.D

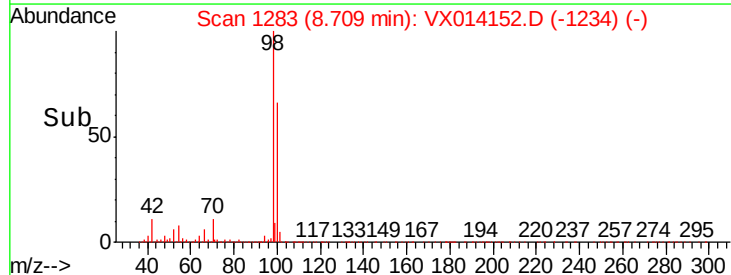
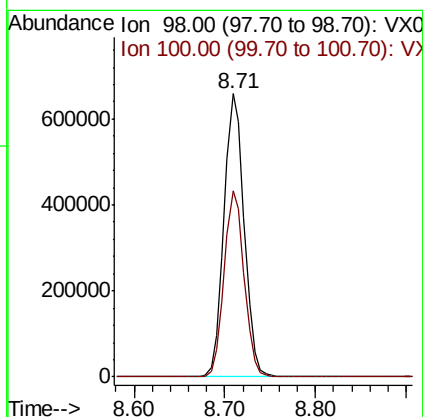
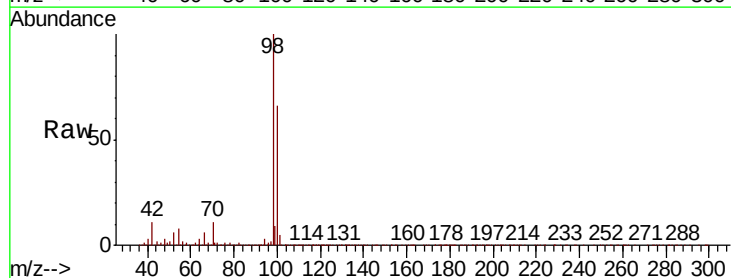
Acq: 20 Dec 2019 04:52

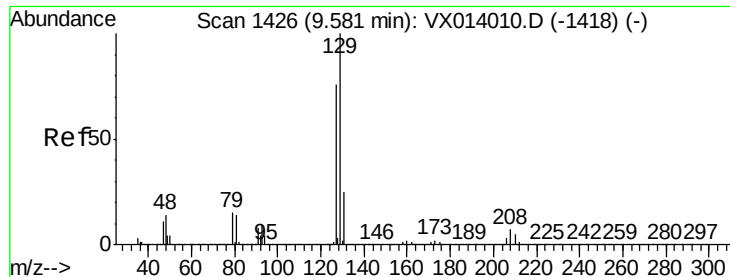
Tgt Ion: 98 Resp: 1020960

Ion Ratio Lower Upper

98 100

100 65.1 52.9 79.3





#60

Dibromochloromethane

Concen: 8.037 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :

MSVOA_X

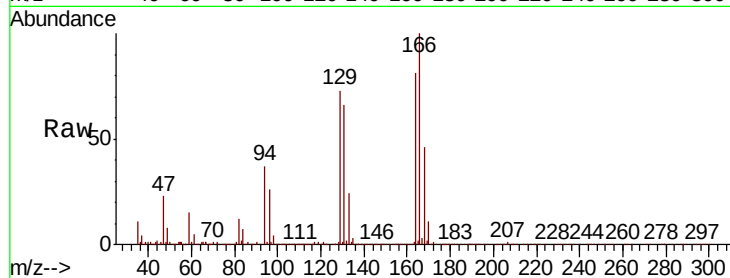
ClientSampleId :

Tot Ion:129 Resp: 49755

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

40000

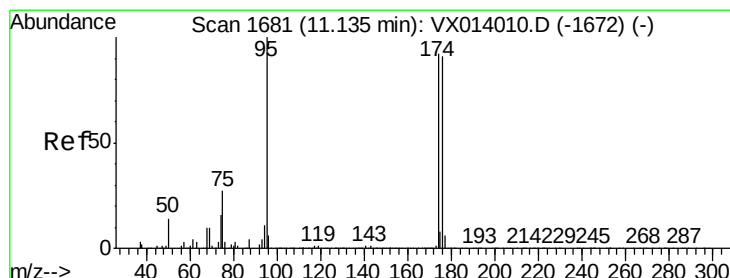
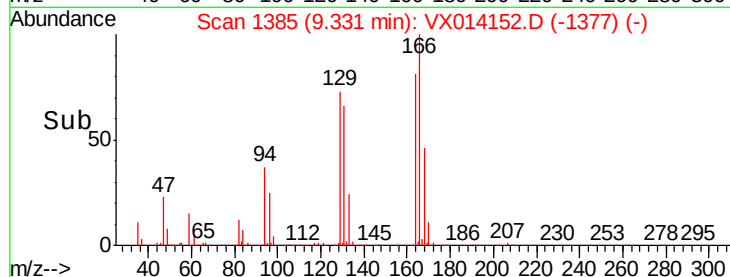
30000

20000

10000

0

Time--> 9.25 9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 45.853 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

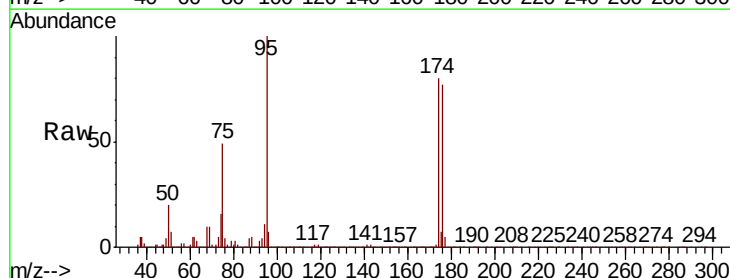
Tgt Ion: 95 Resp: 345434

Ion Ratio Lower Upper

95 100

174 89.0 0.0 175.8

176 86.4 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

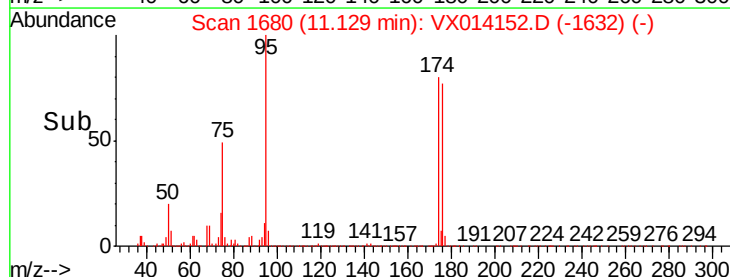
300000

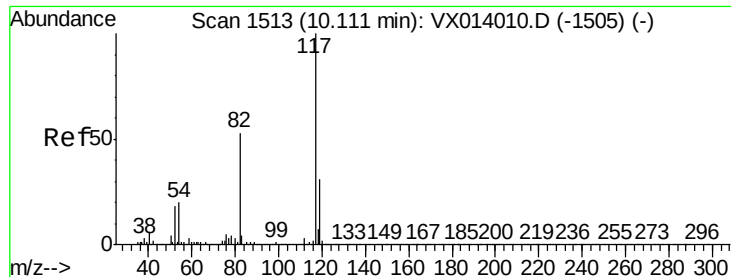
200000

100000

0

Time--> 11.00 11.10 11.20

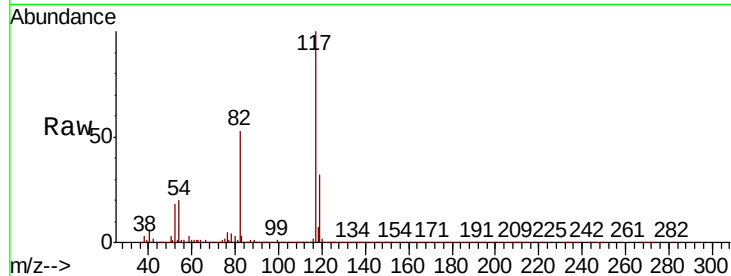




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014152.D
Acq: 20 Dec 2019 04:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.2	63.4
119	32.0	25.1	37.7

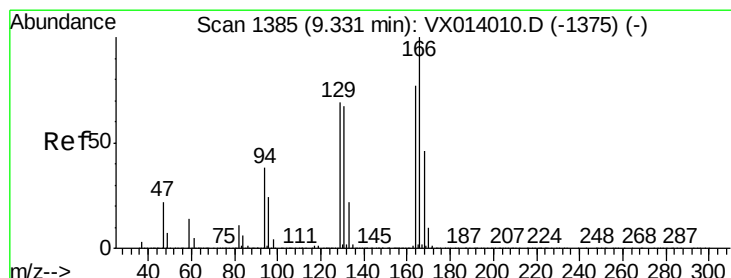
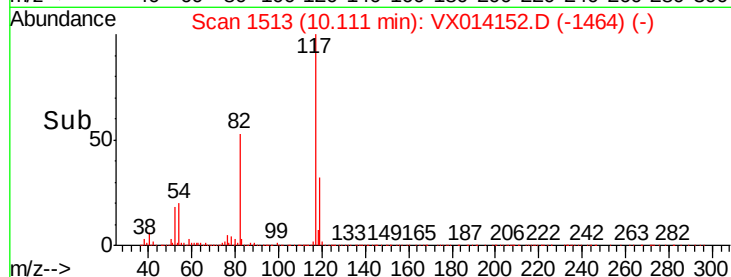
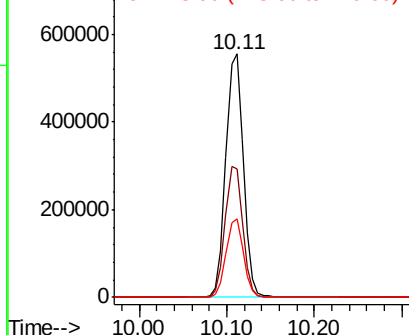


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 8.304 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX014152.D
Acq: 20 Dec 2019 04:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.9	104.0	156.0
129	90.0	72.2	108.4
131	82.2	69.6	104.4

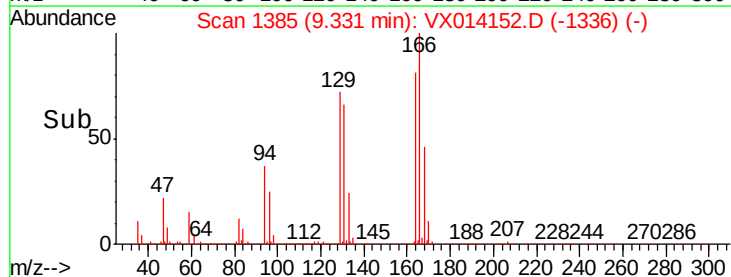
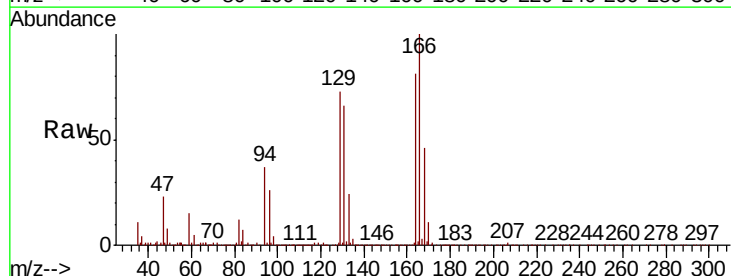
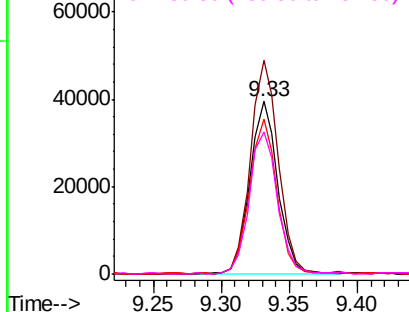
Abundance

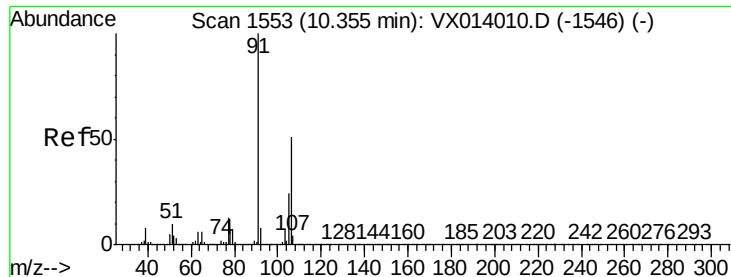
Ion 163.80 (163.50 to 164.50): V

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





#68

m/p-Xvlenes

Concen: 0.260 ug/l

RT: 10.36 min Scan# 1554

Delta R.T. 0.01 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :

MSVOA_X

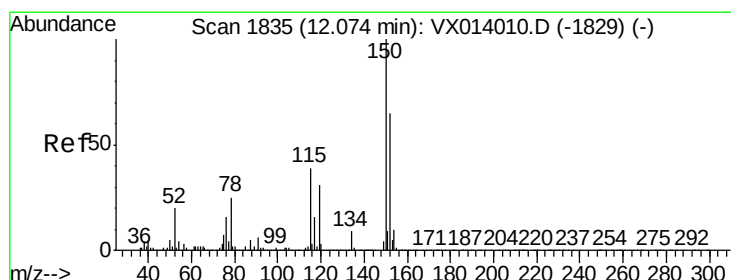
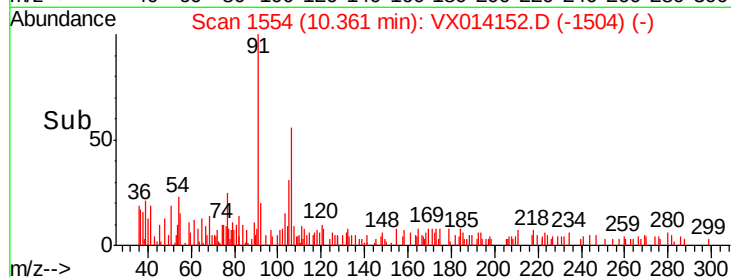
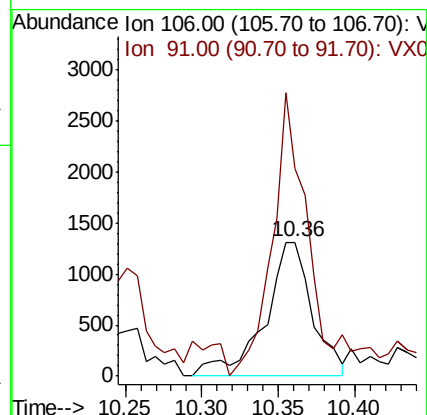
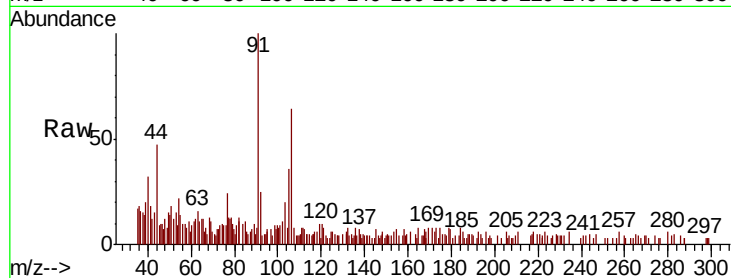
ClientSampled :

Tot Ion:106 Resp: 2830

Ion Ratio Lower Upper

106 100

91 150.1 158.6 238.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

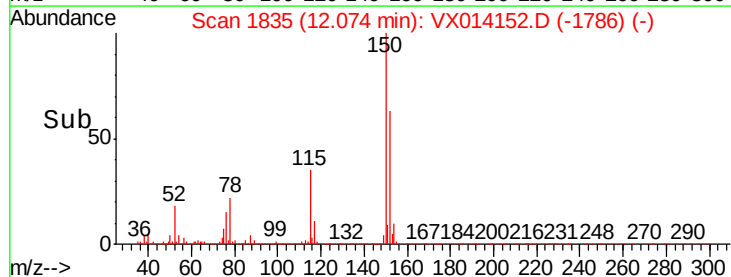
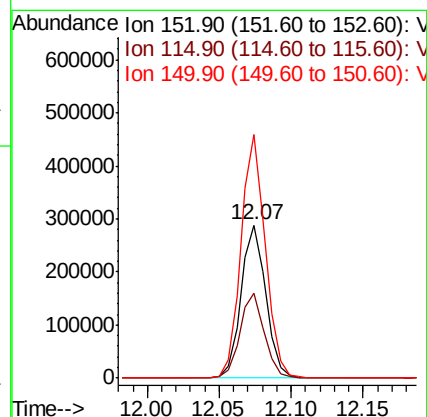
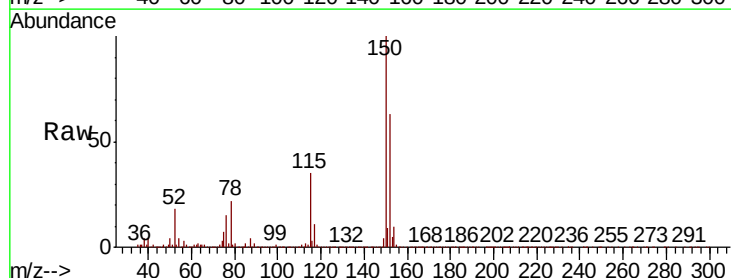
Tgt Ion:152 Resp: 345119

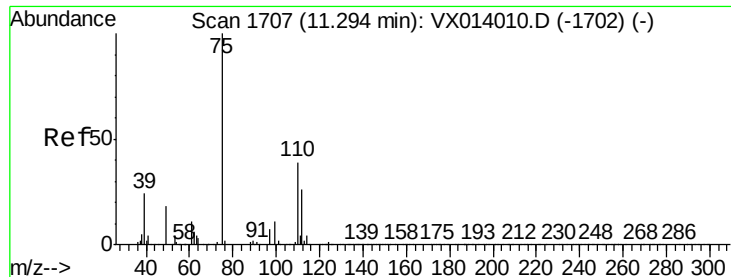
Ion Ratio Lower Upper

152 100

115 55.1 38.3 114.9

150 156.7 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 22.551 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

Instrument :

MSVOA_X

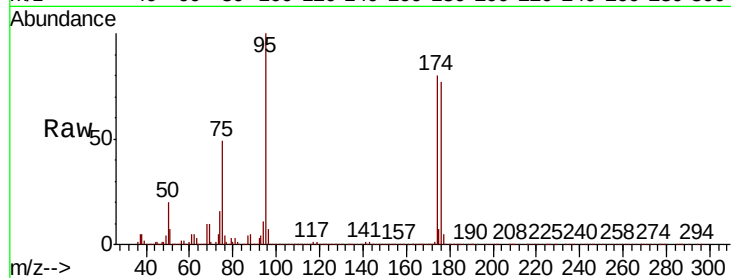
ClientSampleId :

Tot Ion: 75 Resp: 168966

Ion Ratio Lower Upper

75 100

77 1.5 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

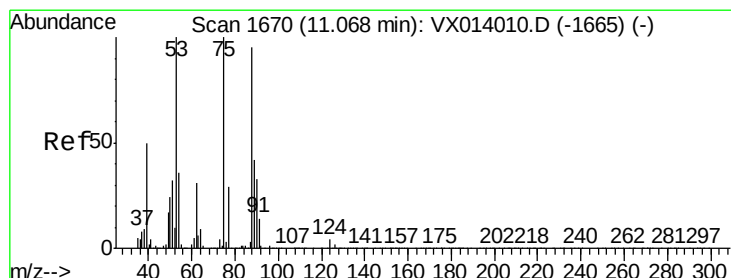
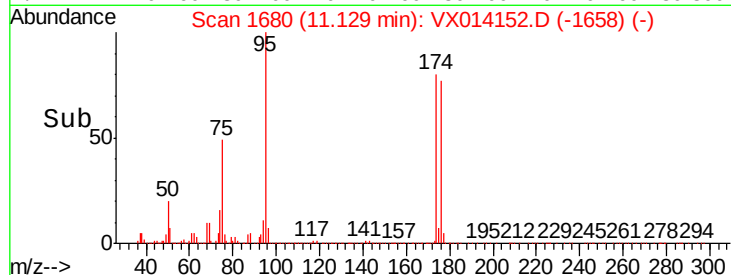
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 63.652 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014152.D

Acq: 20 Dec 2019 04:52

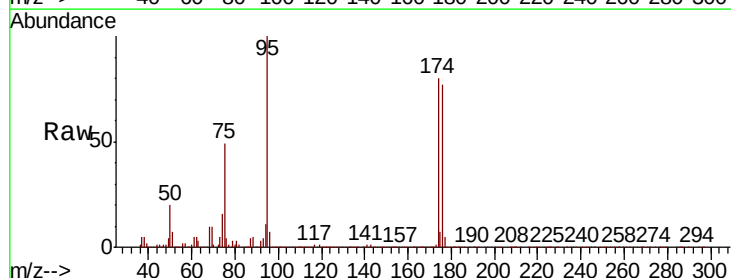
Tgt Ion: 75 Resp: 168966

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 0.3 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

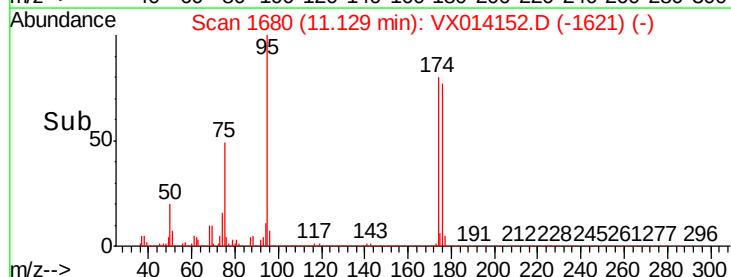
150000

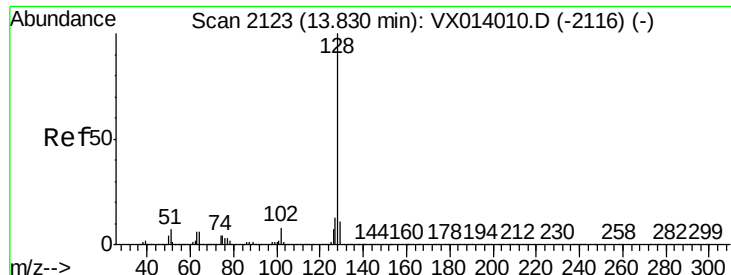
100000

50000

0

Time-->





#95
Naphthalene
Concen: 0.793 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014152.D
Acq: 20 Dec 2019 04:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.6	10.2	15.4
129	11.5	8.7	13.1

