

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103019\
 Data File : VX013283.D
 Acq On : 30 Oct 2019 14:03
 Operator : JC/SP
 Sample : PB124420TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 31 01:40:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	70929	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	100573	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	99118	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	61187	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	68592	46.24	ug/l	0.00
Spiked Amount			Recovery	=	92.48%	
35) Dibromofluoromethane	5.48	113	51737	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
50) Toluene-d8	8.71	98	181262	43.61	ug/l	0.00
Spiked Amount			Recovery	=	87.22%	
62) 4-Bromofluorobenzene	11.13	95	70563	42.89	ug/l	0.00
Spiked Amount			Recovery	=	85.78%	

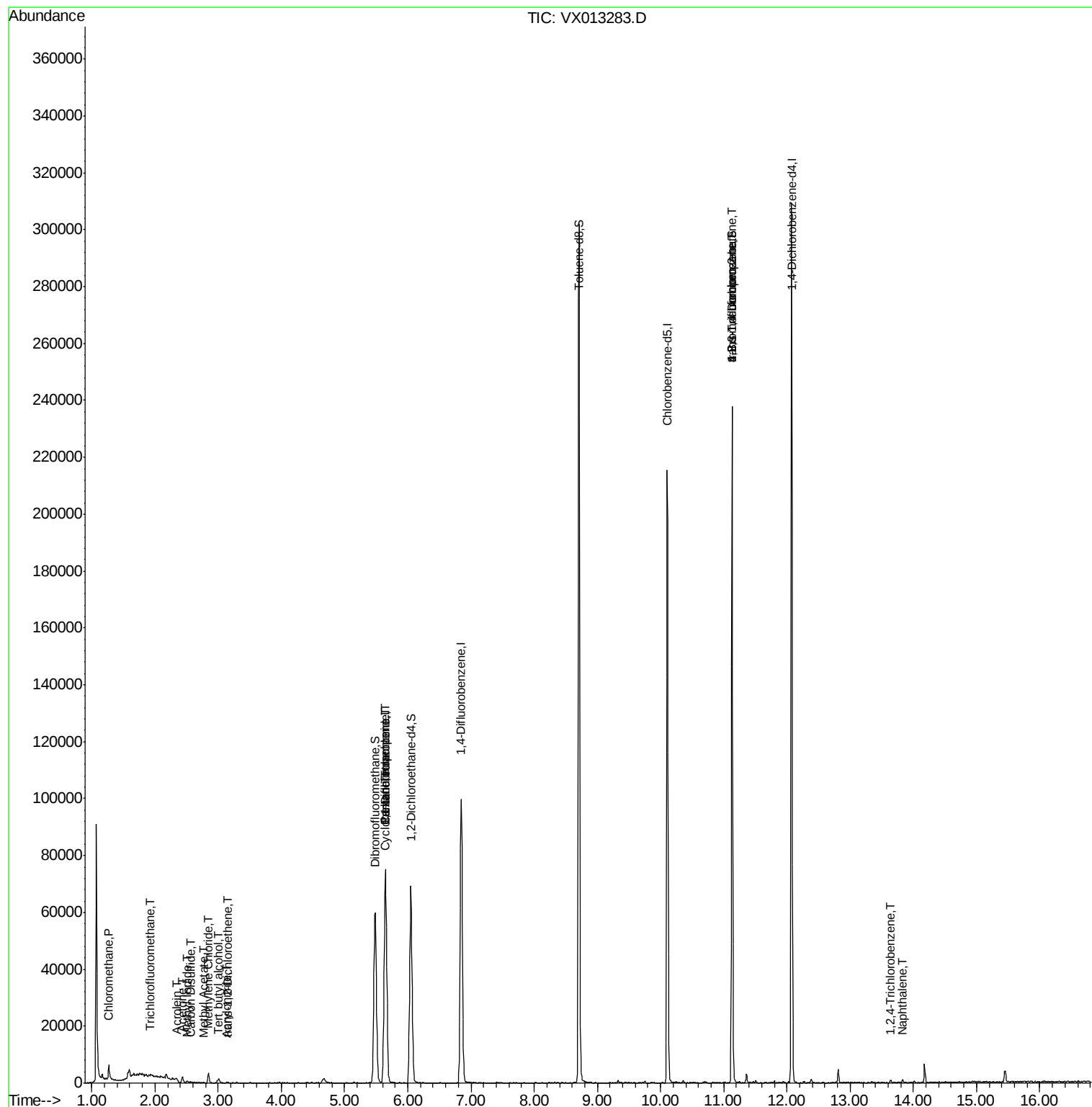
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.27	50	113	1.071	ug/l #	40
6) Chloroethane	1.67	64	474	Below Cal	#	43
7) Trichlorofluoromethane	1.92	101	113	0.354	ug/l #	25
10) Methyl Iodide	2.51	142	453	3.806	ug/l #	90
11) Tert butyl alcohol	3.01	59	1043	2.188	ug/l #	72
13) Acrolein	2.34	56	48	0.276	ug/l #	1
15) Acrylonitrile	3.12	53	146	0.223	ug/l #	77
16) Acetone	2.43	43	1195	1.710	ug/l	92
17) Carbon Disulfide	2.56	76	711	0.219	ug/l #	74
18) Methyl Acetate	2.76	43	78	1.019	ug/l #	49
20) Methylene Chloride	2.84	84	1492	1.423	ug/l	98
21) trans-1,2-Dichloroethene	3.15	96	146	0.591	ug/l #	37
31) Cyclohexane	5.63	56	1303	0.679	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	5146	2.984	ug/l #	50
38) Carbon Tetrachloride	5.64	117	7520	4.045	ug/l #	14
64) Tetrachloroethene	9.33	164	72	Below Cal	#	30
76) 1,2,3-Trichloropropane	11.13	75	35080	23.788	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	35080	65.367	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.64	180	412	0.277	ug/l	71
95) Naphthalene	13.83	128	916	0.200	ug/l #	95

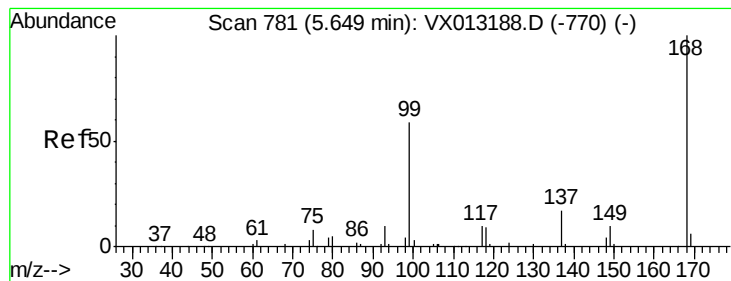
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 24 03:56:38 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: VX013283.D

Acq: 30 Oct 2019 14:03

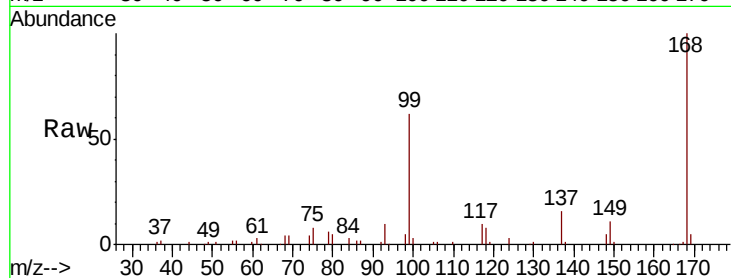
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 70929

Ion Ratio Lower Upper

168 100

99 62.1 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

25000

20000

15000

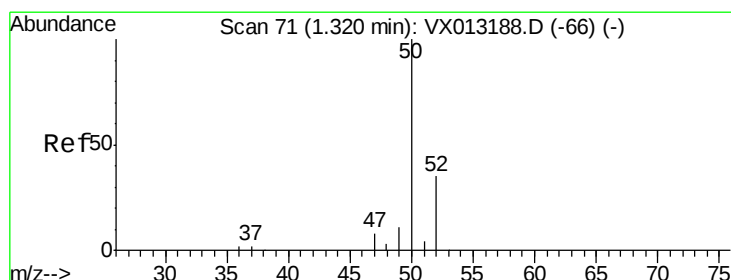
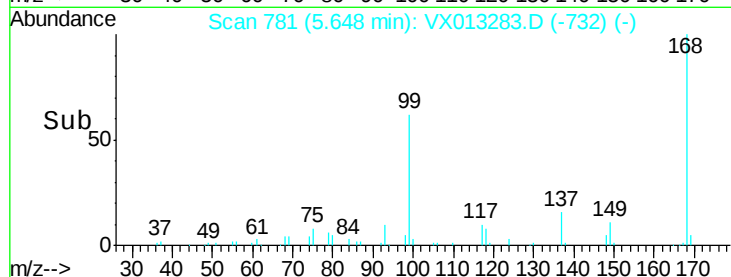
10000

5000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.071 ug/l

RT: 1.27 min Scan# 63

Delta R.T. -0.05 min

Lab File: VX013283.D

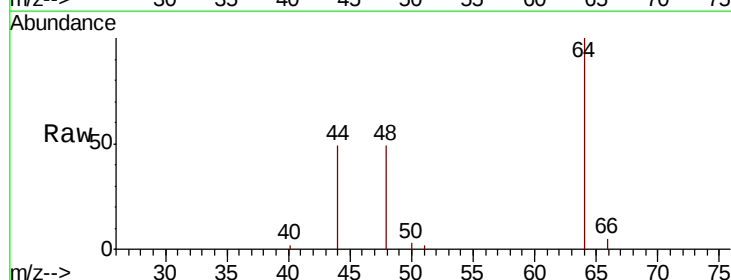
Acq: 30 Oct 2019 14:03

Tgt Ion: 50 Resp: 113

Ion Ratio Lower Upper

50 100

52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.27

100

80

60

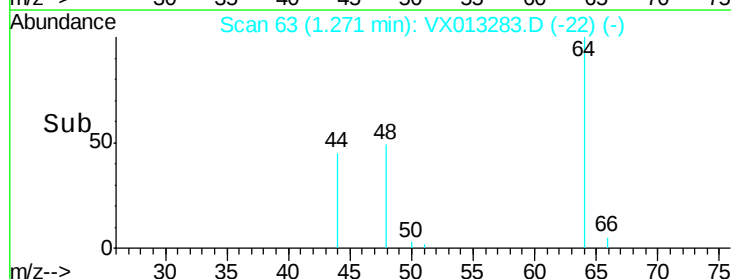
40

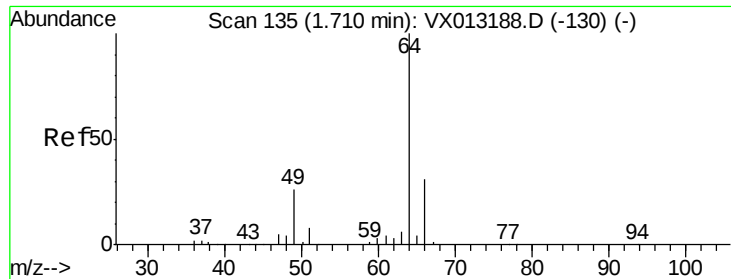
20

0

Time-->

1.24 1.26 1.28 1.30





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 129

Delta R.T. -0.04 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

Instrument :

MSVOA_X

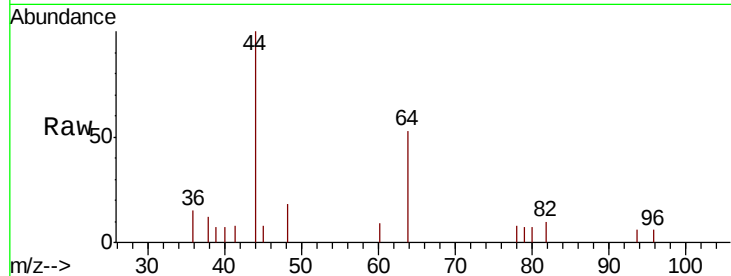
ClientSampleId :

Tot Ion: 64 Resp: 474

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.67

500

400

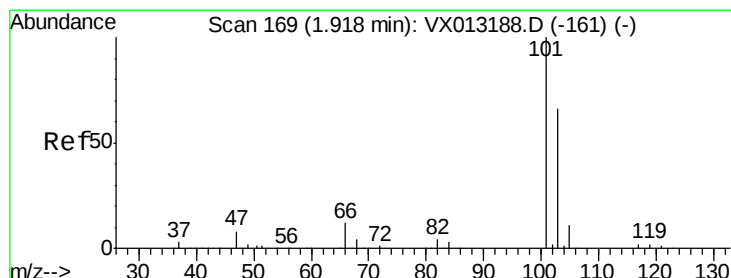
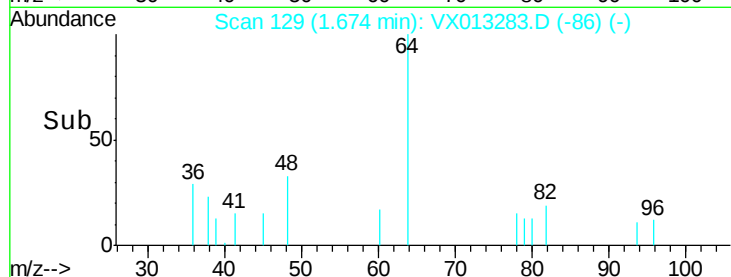
300

200

100

0

Time-->



#7

Trichlorofluoromethane

Concen: 0.354 ug/l

RT: 1.92 min Scan# 169

Delta R.T. 0.00 min

Lab File: VX013283.D

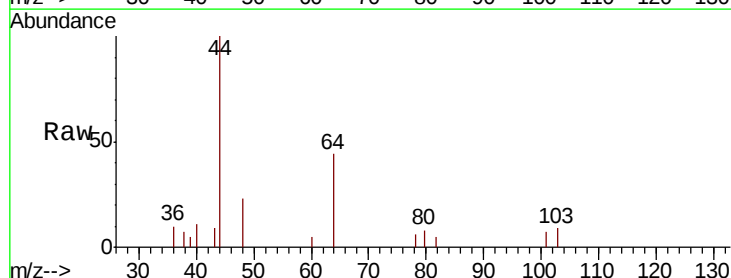
Acq: 30 Oct 2019 14:03

Tgt Ion:101 Resp: 113

Ion Ratio Lower Upper

101 100

103 126.3 53.0 79.6#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

1.92

120

100

80

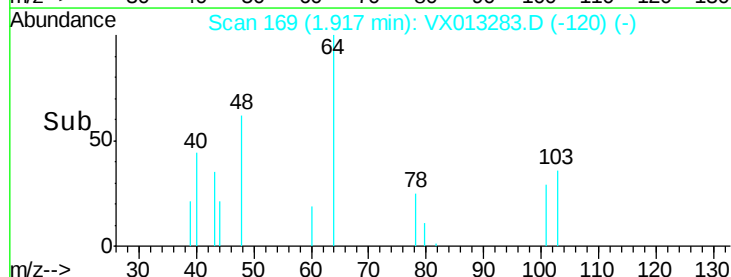
60

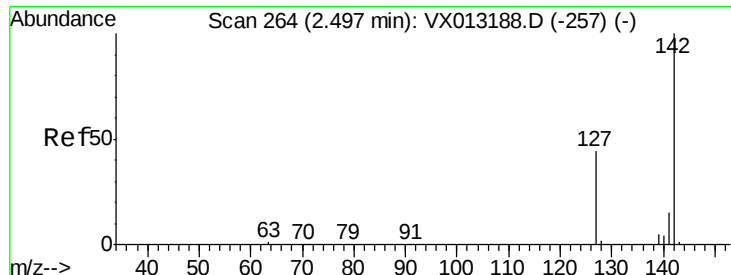
40

20

0

Time-->

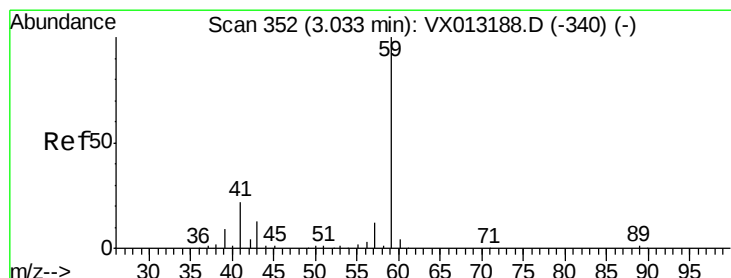
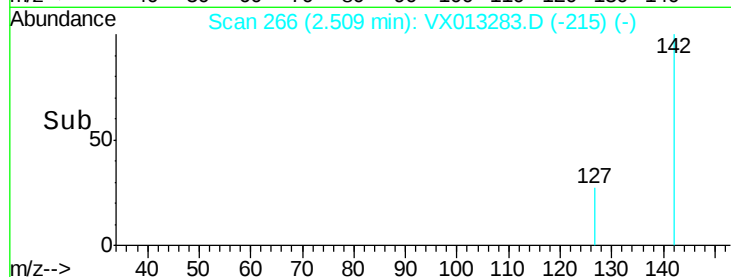
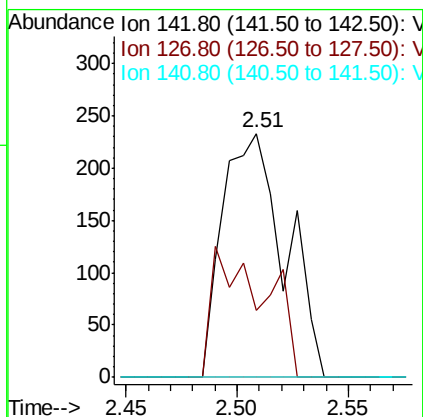
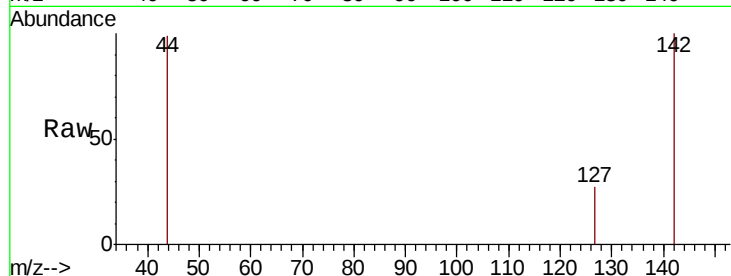




#10
Methvl Iodide
Concen: 3.806 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX013283.D
Acq: 30 Oct 2019 14:03

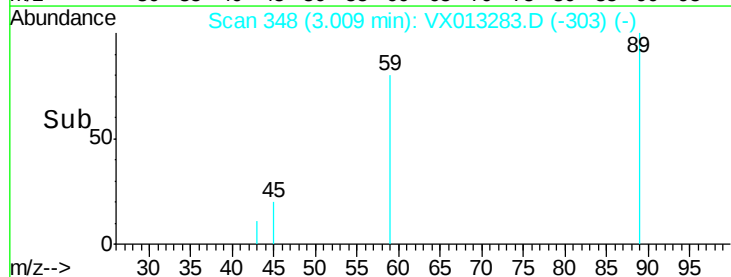
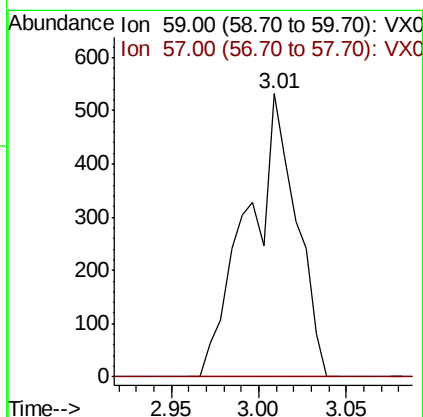
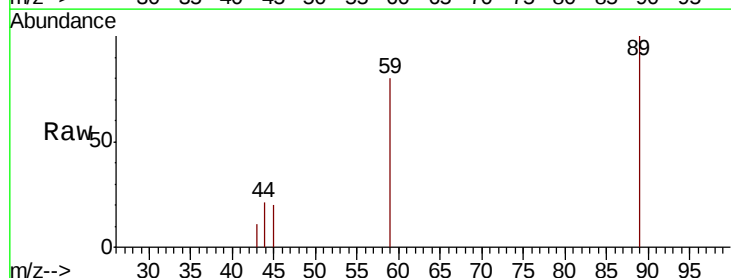
Instrument :
MSVOA_X
ClientSampleId :

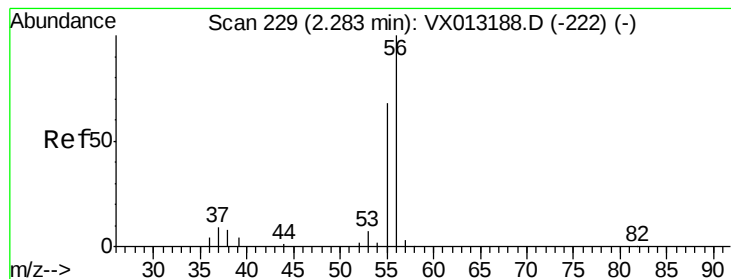
Tot Ion:142 Resp: 453
Ion Ratio Lower Upper
142 100
127 45.7 35.6 53.4
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 2.188 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX013283.D
Acq: 30 Oct 2019 14:03

Tgt Ion: 59 Resp: 1043
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.276 ug/l

RT: 2.34 min Scan# 238

Delta R.T. 0.05 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

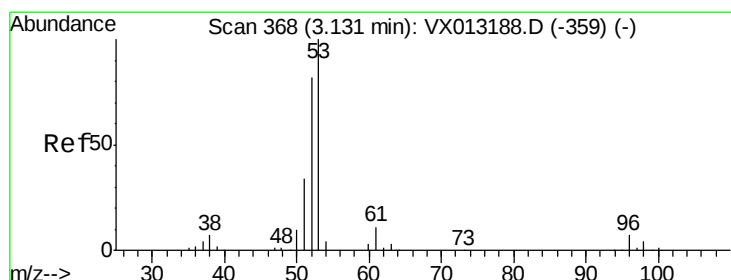
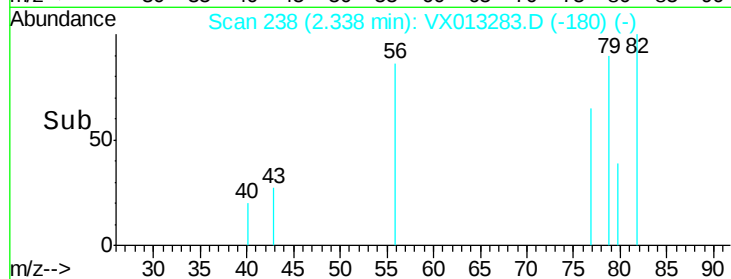
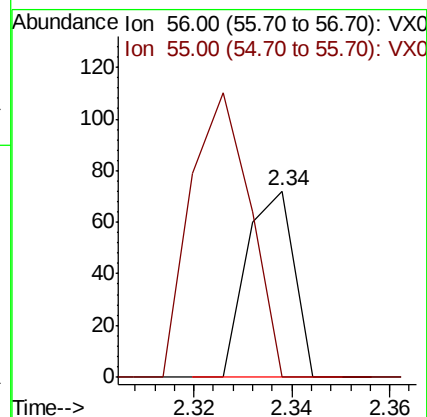
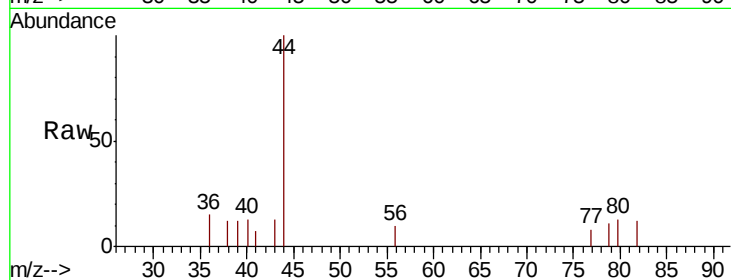
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 48

Ion Ratio Lower Upper

56 100

55 193.8 58.9 88.3#



#15

Acrylonitrile

Concen: 0.223 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

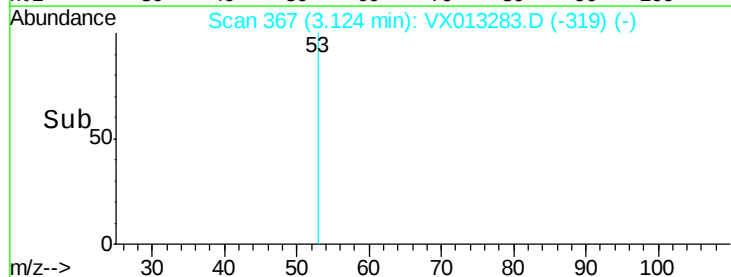
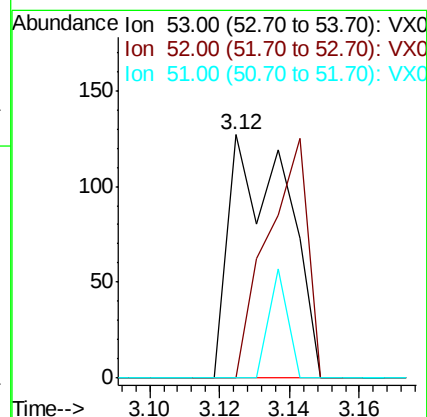
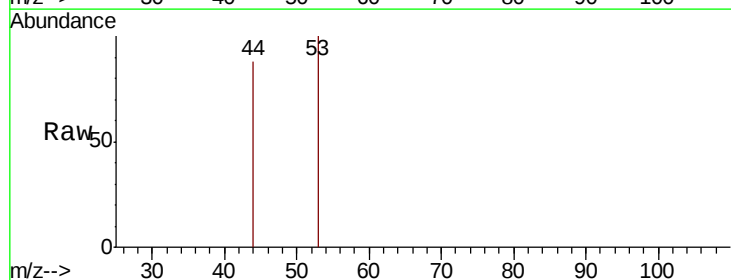
Tgt Ion: 53 Resp: 146

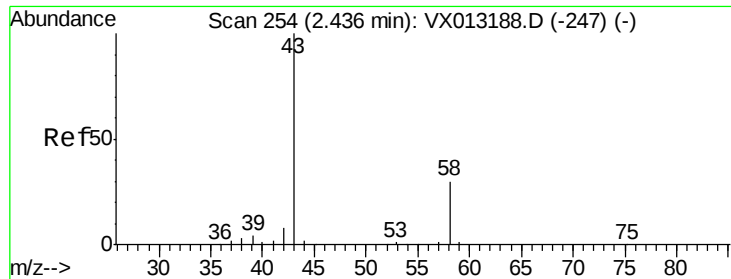
Ion Ratio Lower Upper

53 100

52 67.8 66.4 99.6

51 14.4 29.4 44.2#





#16

Acetone

Concen: 1.710 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

Instrument :

MSVOA_X

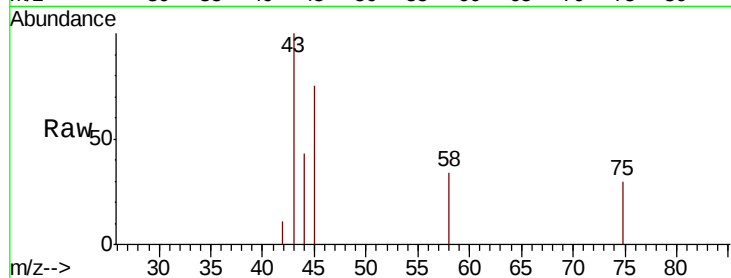
ClientSampleId :

Tot Ion: 43 Resp: 1195

Ion Ratio Lower Upper

43 100

58 34.1 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

600

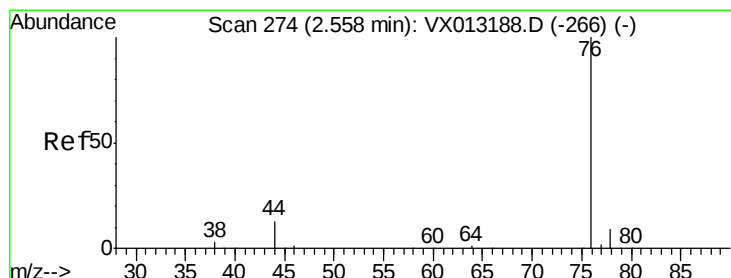
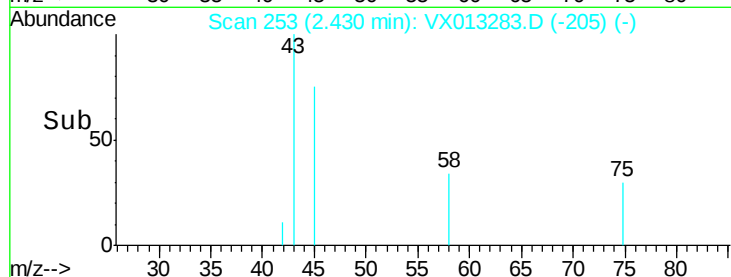
400

200

0

Time-->

2.40 2.45



#17

Carbon Disulfide

Concen: 0.219 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013283.D

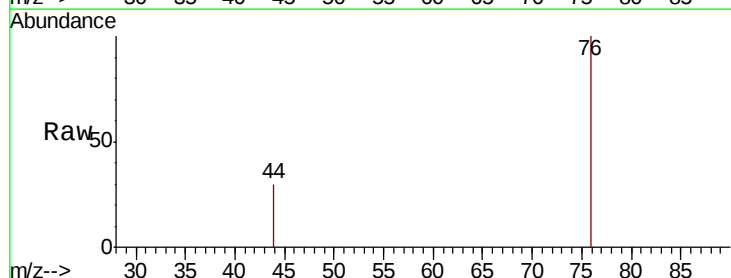
Acq: 30 Oct 2019 14:03

Tgt Ion: 76 Resp: 711

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

500

400

300

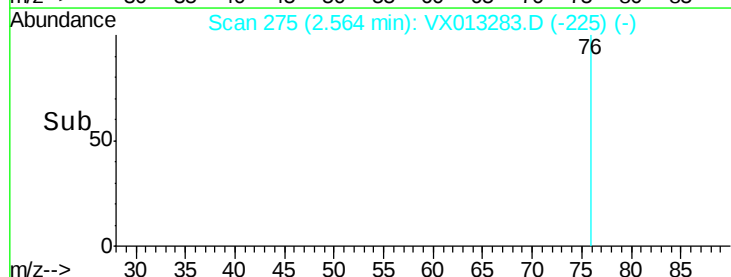
200

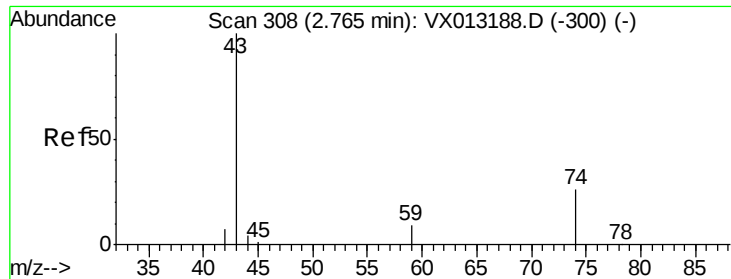
100

0

Time-->

2.55 2.60

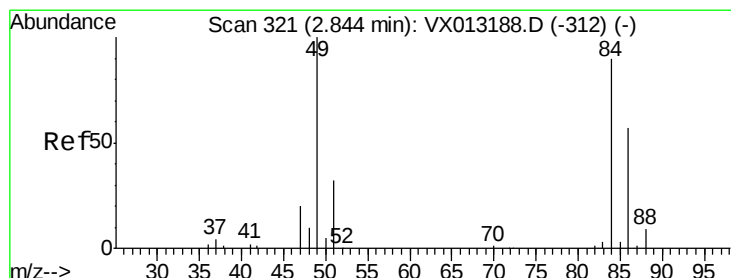
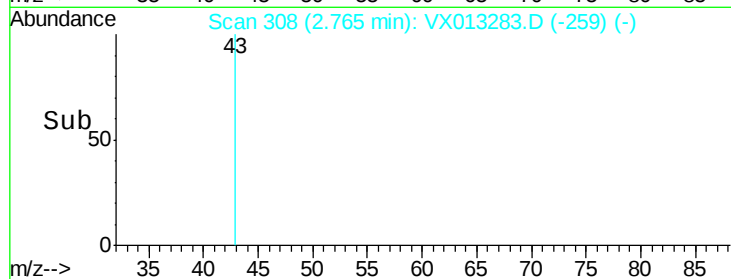
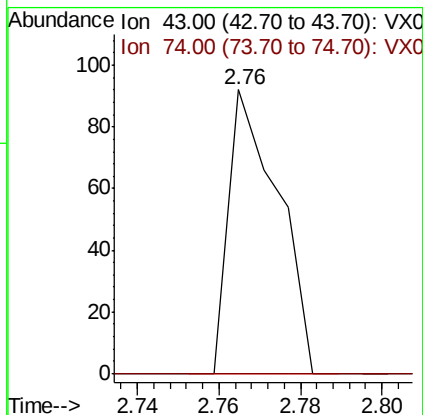
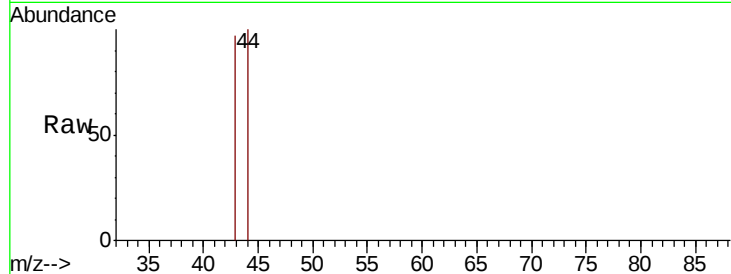




#18
Methyl Acetate
Concen: 1.019 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX013283.D
Acq: 30 Oct 2019 14:03

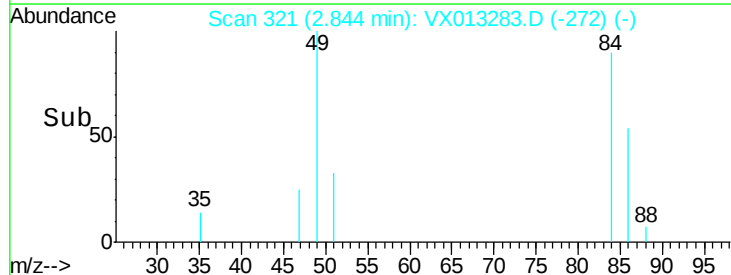
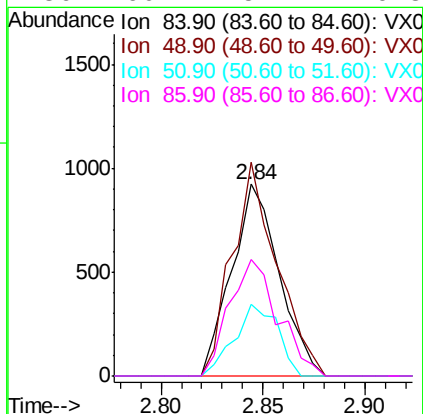
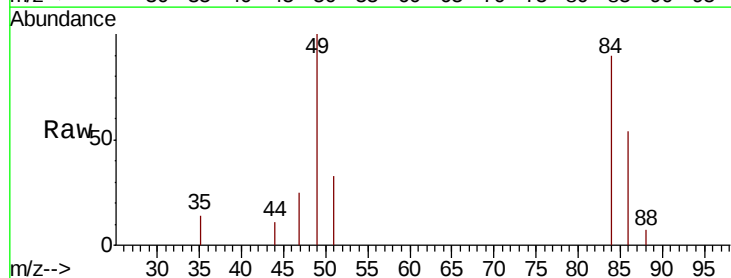
Instrument :
MSVOA_X
ClientSampleId :

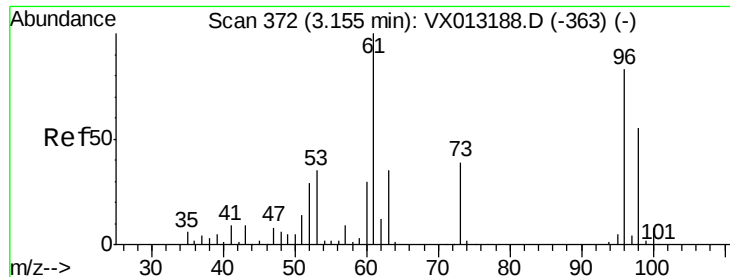
Tot Ion: 43 Resp: 78
Ion Ratio Lower Upper
43 100
74 0.0 20.9 31.3#



#20
Methylene Chloride
Concen: 1.423 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013283.D
Acq: 30 Oct 2019 14:03

Tgt Ion: 84 Resp: 1492
Ion Ratio Lower Upper
84 100
49 111.5 89.2 133.8
51 37.2 28.8 43.2
86 60.7 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 0.591 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

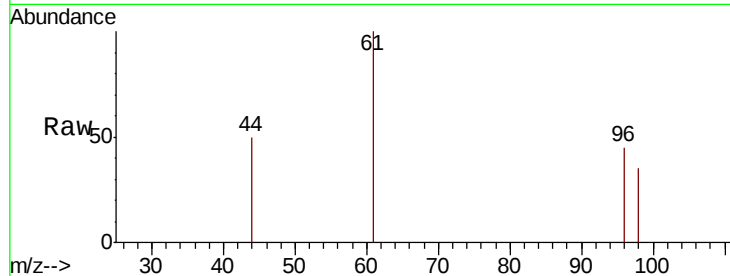
Tot Ion: 96 Resp: 146

Ion Ratio Lower Upper

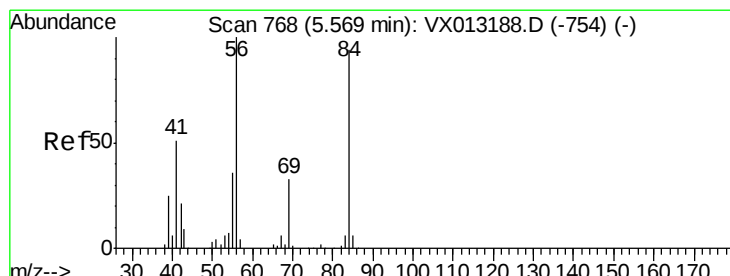
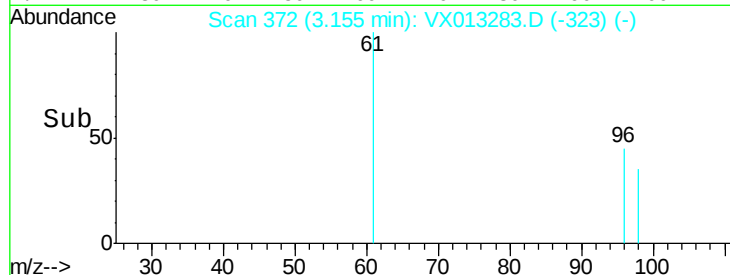
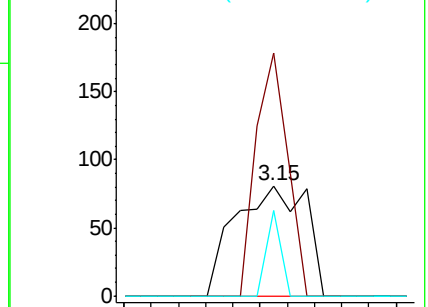
96 100

61 221.0 96.9 145.3#

98 77.8 53.0 79.4



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



#31

Cyclohexane

Concen: 0.679 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.06 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

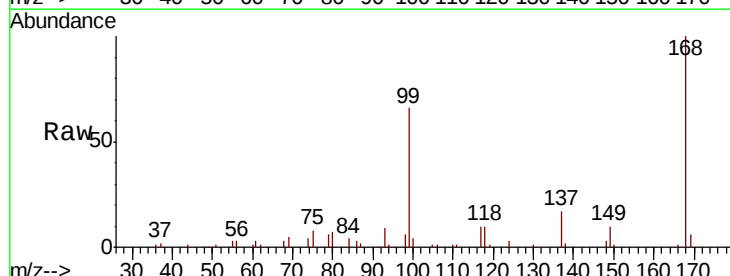
Tgt Ion: 56 Resp: 1303

Ion Ratio Lower Upper

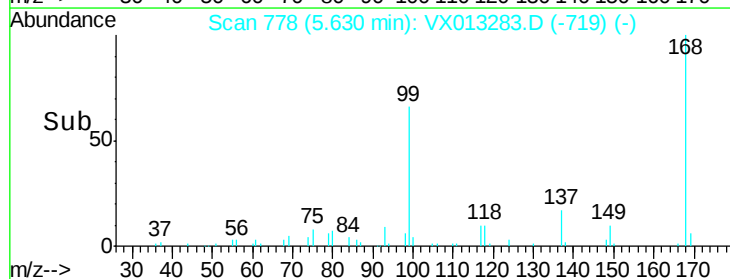
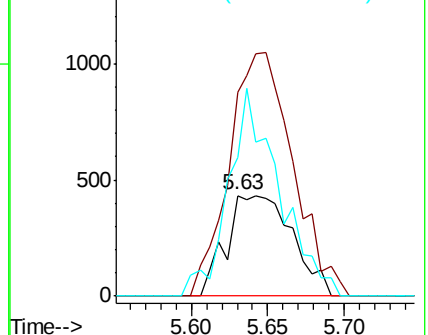
56 100

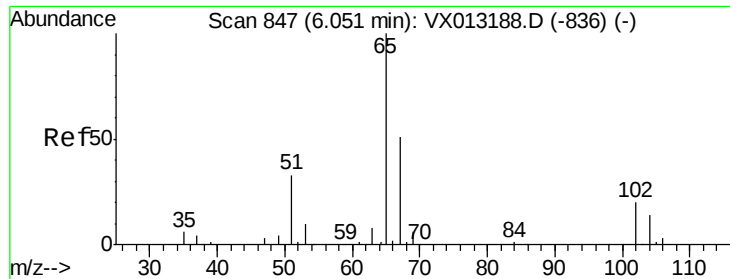
69 203.5 26.3 39.5#

84 138.4 73.8 110.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

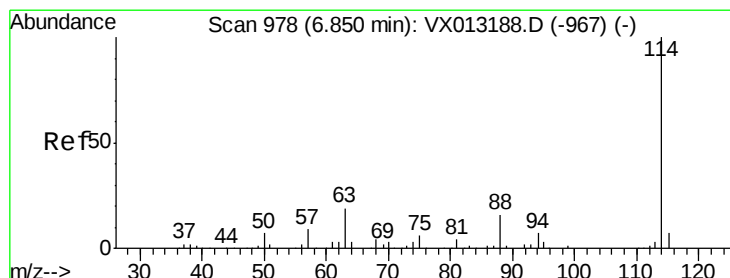
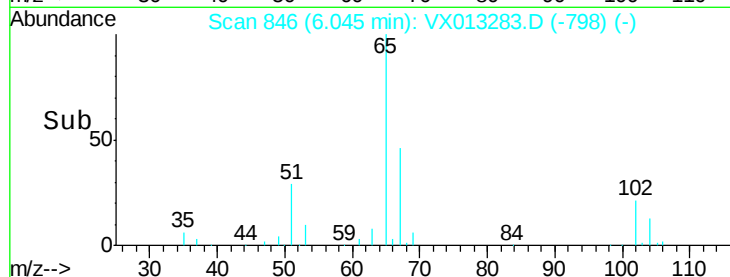
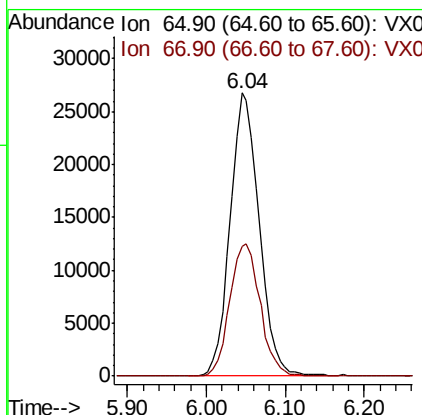
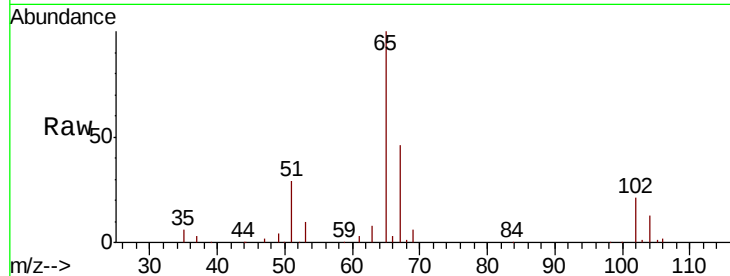




#33
 1,2-Dichloroethane-d4
 Concen: 46.236 ug/l
 RT: 6.04 min Scan# 846
 Delta R.T. -0.01 min
 Lab File: VX013283.D
 Acq: 30 Oct 2019 14:03

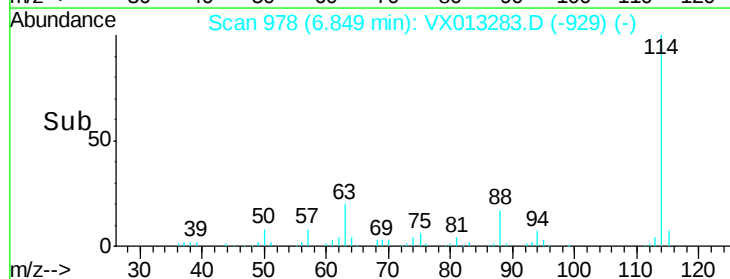
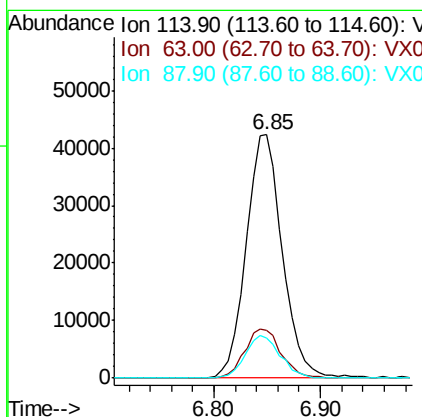
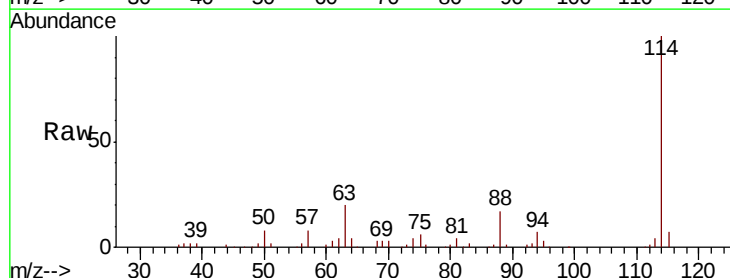
Instrument :
 MSVOA_X
 ClientSampleId :

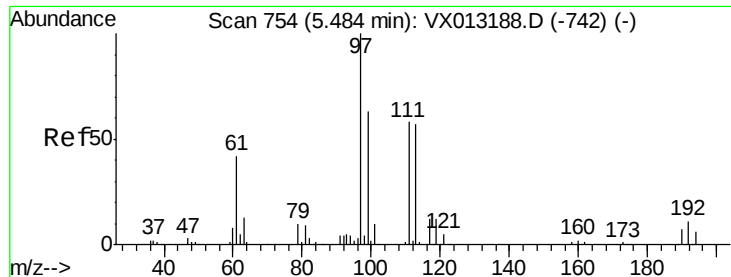
Tot Ion: 65 Resp: 68592
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013283.D
 Acq: 30 Oct 2019 14:03

Tgt Ion: 114 Resp: 100573
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.0
 88 16.5 0.0 32.0





#35

Dibromofluoromethane

Concen: 46.131 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

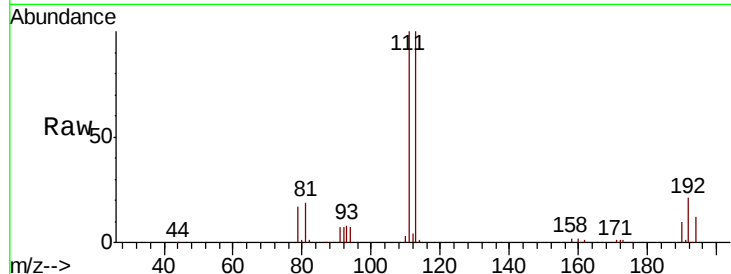
Tot Ion:113 Resp: 51737

Ion Ratio Lower Upper

113 100

111 102.0 80.3 120.5

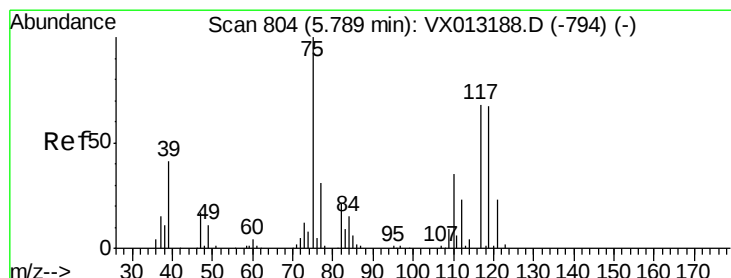
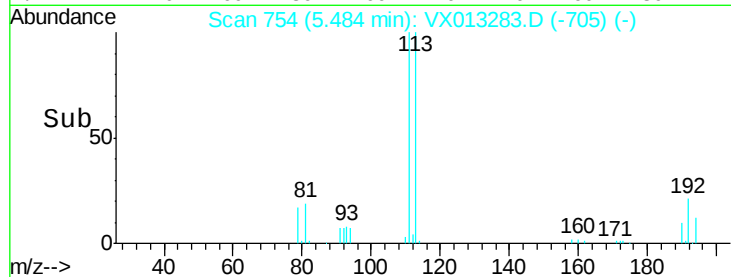
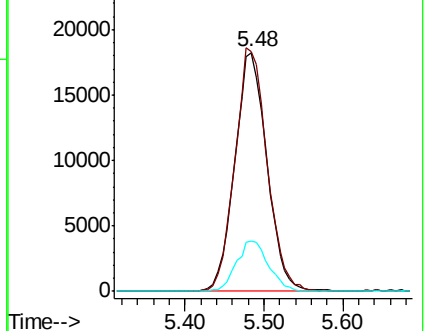
192 21.0 15.9 23.9



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: 2.984 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

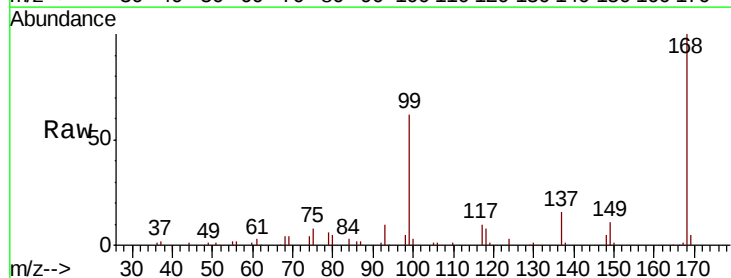
Tgt Ion: 75 Resp: 5146

Ion Ratio Lower Upper

75 100

110 8.9 17.6 52.9#

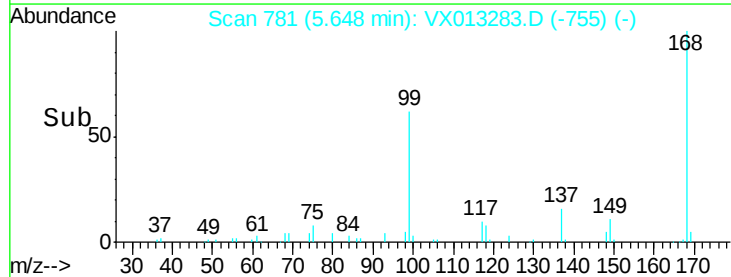
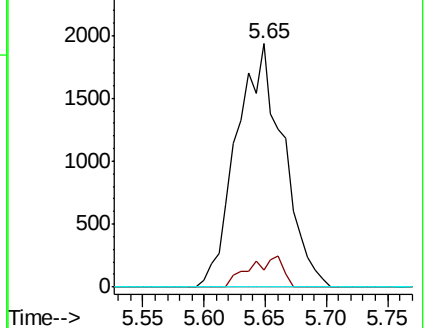
77 0.0 24.7 37.1#

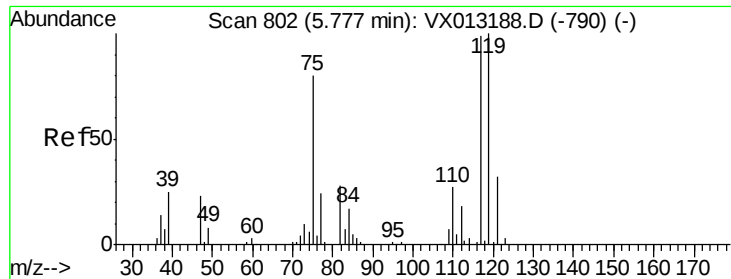


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.045 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

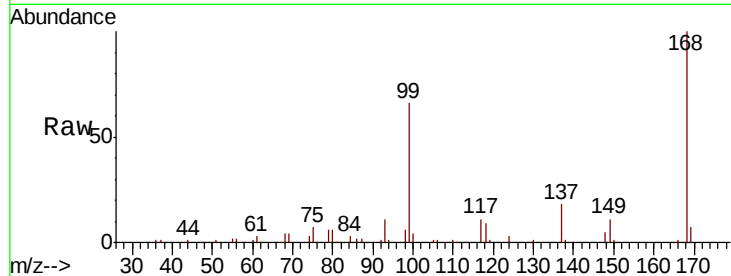
Tot Ion:117 Resp: 7520

Ion Ratio Lower Upper

117 100

119 5.5 80.1 120.1#

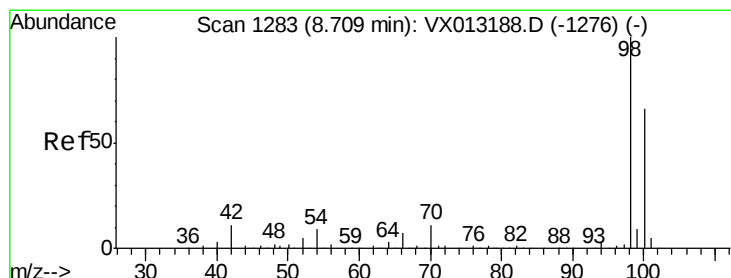
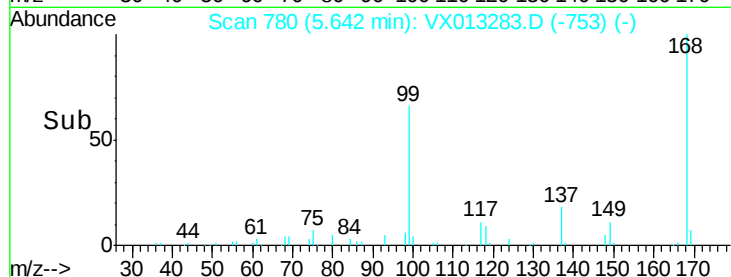
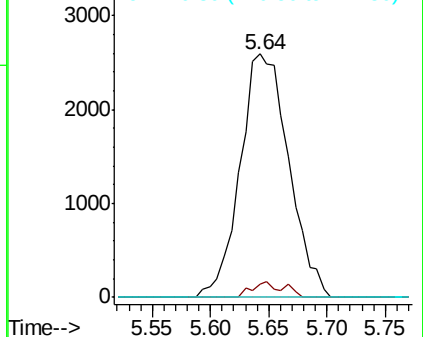
121 0.0 25.5 38.3#



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



#50

Toluene-d8

Concen: 43.612 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013283.D

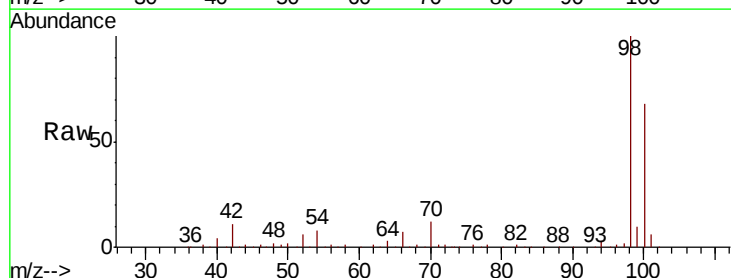
Acq: 30 Oct 2019 14:03

Tgt Ion: 98 Resp: 181262

Ion Ratio Lower Upper

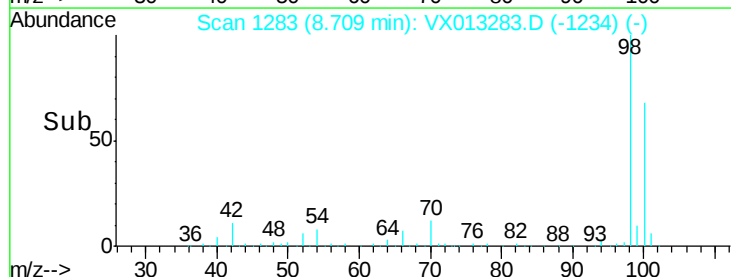
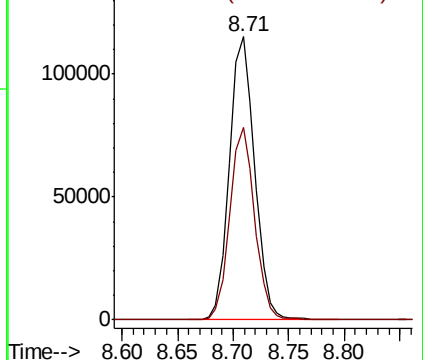
98 100

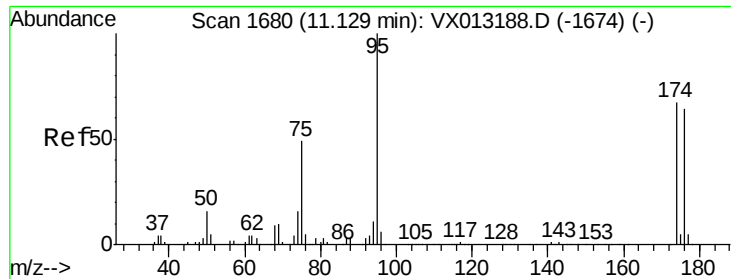
100 66.7 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

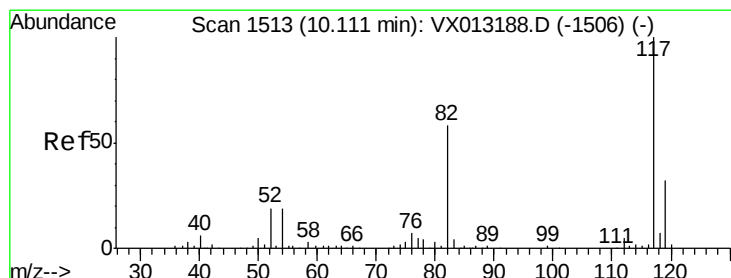
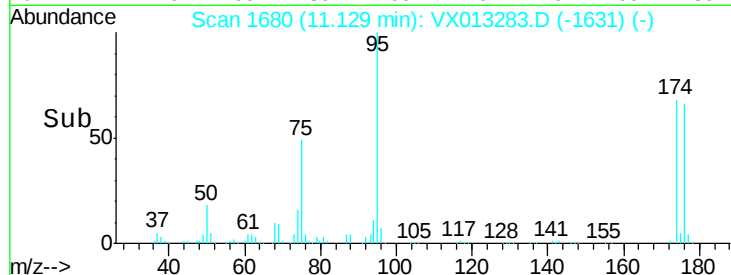
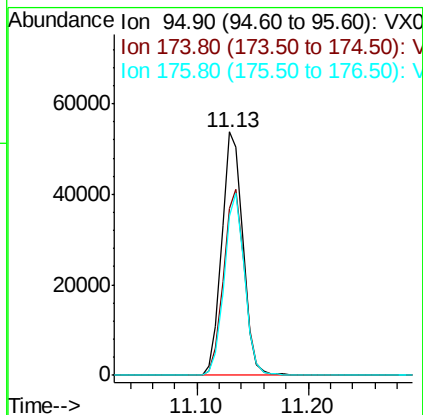
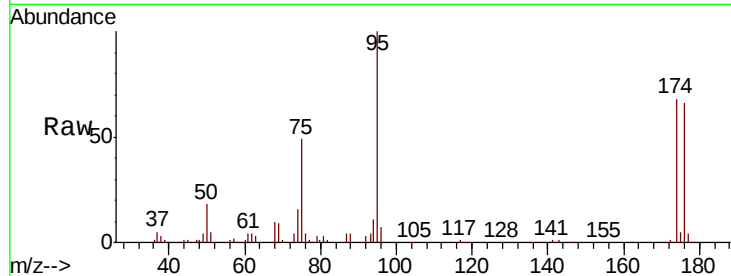




#62
4-Bromofluorobenzene
Concen: 42.894 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX013283.D
Acq: 30 Oct 2019 14:03

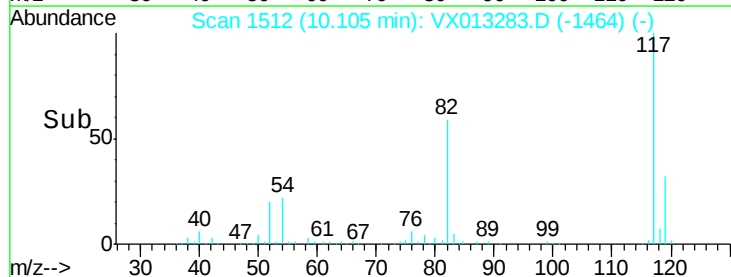
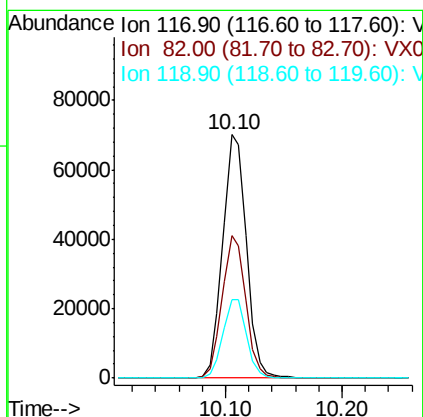
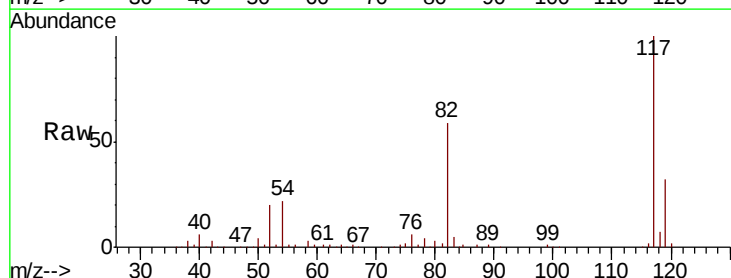
Instrument :
MSVOA_X
ClientSampleId :

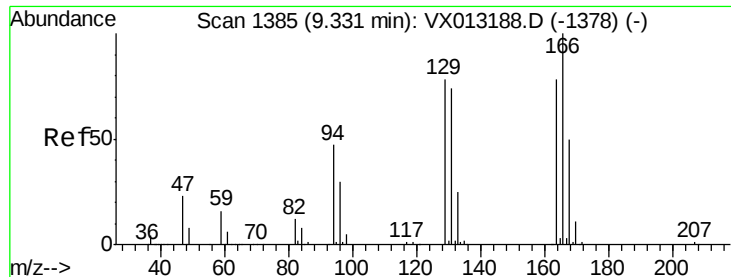
Tot Ion: 95 Resp: 70563
Ion Ratio Lower Upper
95 100
174 75.7 0.0 152.4
176 71.9 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013283.D
Acq: 30 Oct 2019 14:03

Tgt Ion: 117 Resp: 99118
Ion Ratio Lower Upper
117 100
82 58.7 46.5 69.7
119 32.2 25.2 37.8





#64

Tetrachloroethene

Concen: Below Cal

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:164 Resp: 72

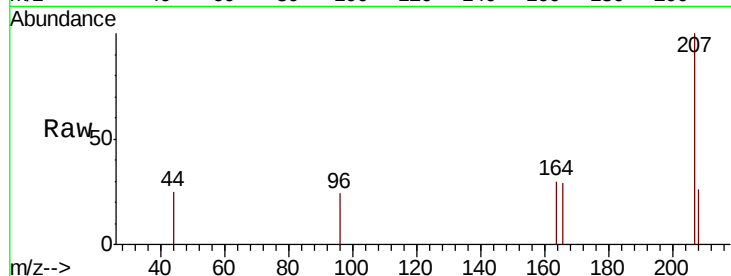
Ion Ratio Lower Upper

164 100

166 98.6 102.2 153.4#

129 0.0 79.8 119.8#

131 0.0 75.3 112.9#

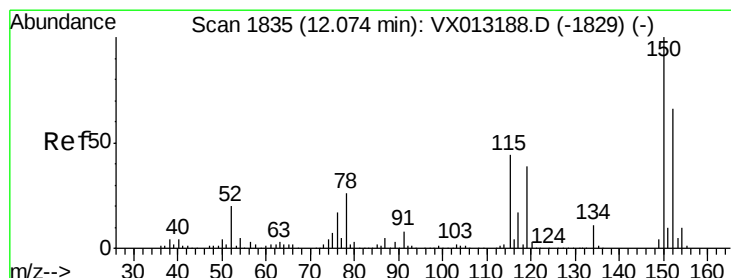
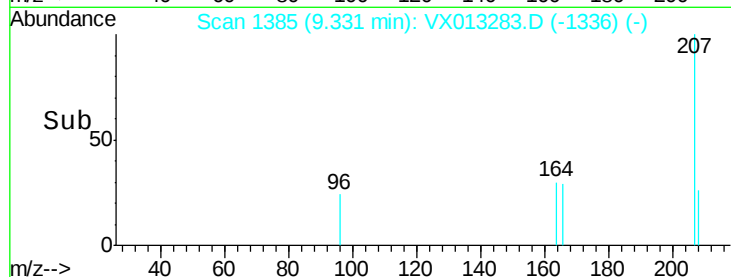
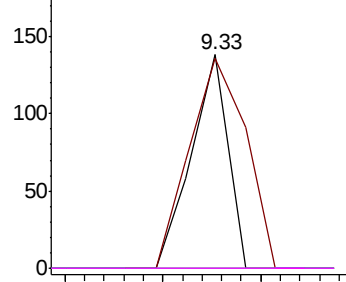


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX013283.D

Acq: 30 Oct 2019 14:03

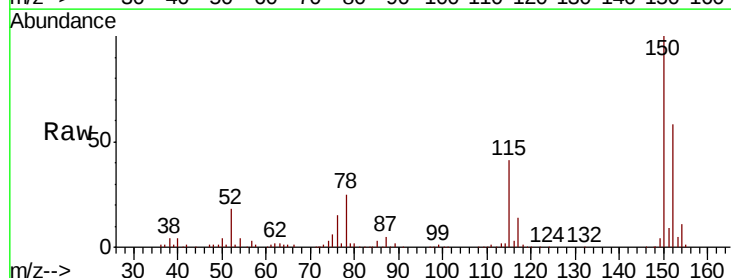
Tgt Ion:152 Resp: 61187

Ion Ratio Lower Upper

152 100

115 66.2 46.6 139.8

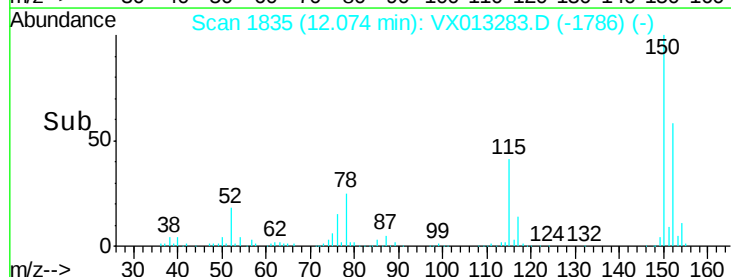
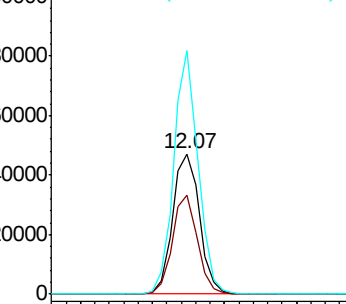
150 157.5 0.0 354.0

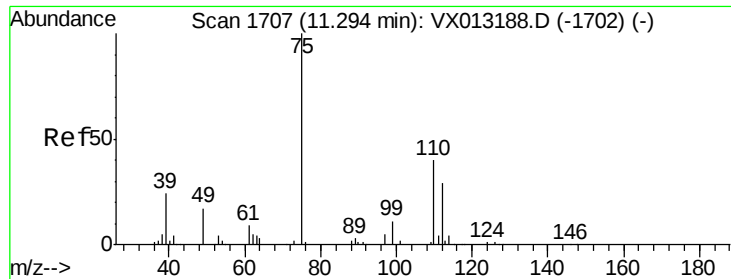


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.788 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

Instrument :

MSVOA_X

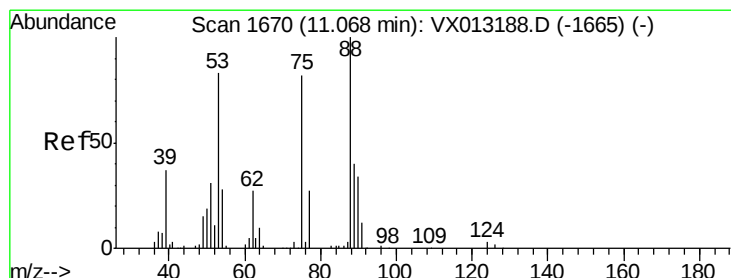
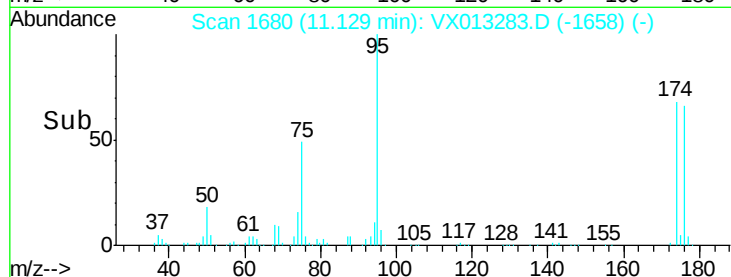
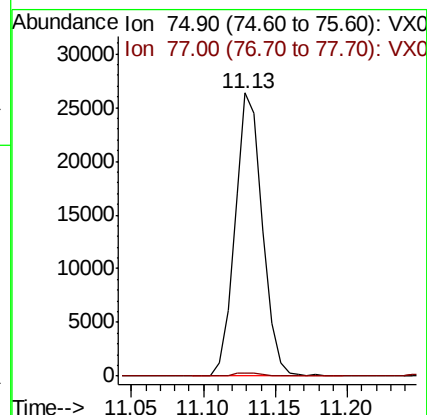
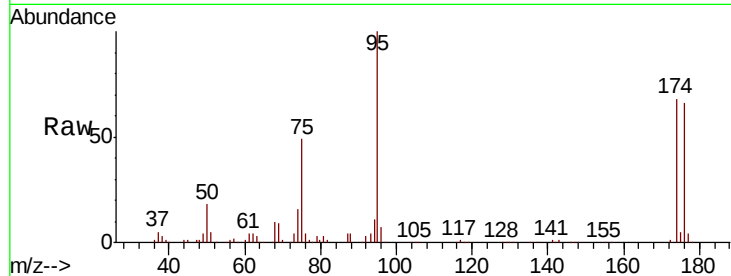
ClientSampleId :

Tot Ion: 75 Resp: 35080

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.367 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013283.D

Acq: 30 Oct 2019 14:03

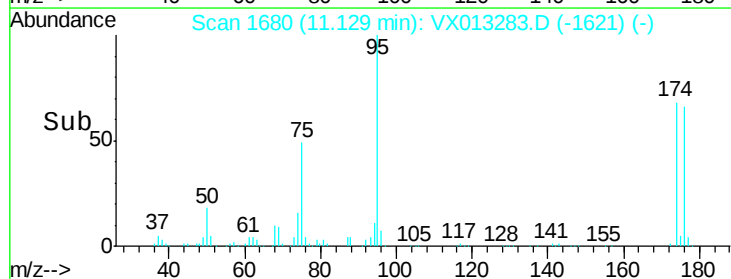
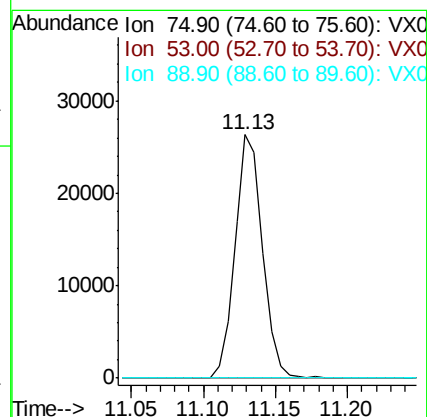
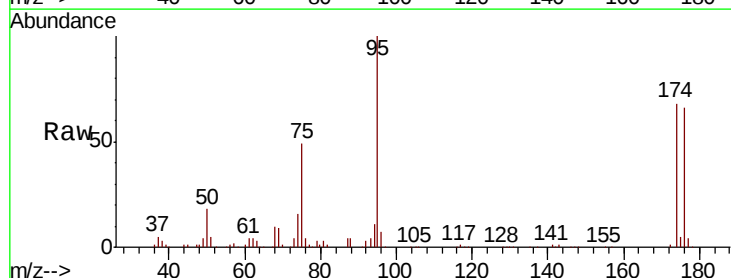
Tgt Ion: 75 Resp: 35080

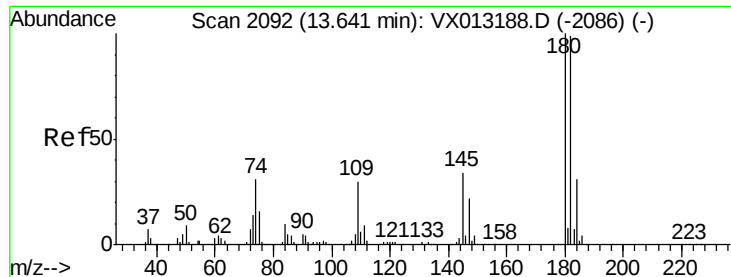
Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

89 0.0 37.3 55.9#

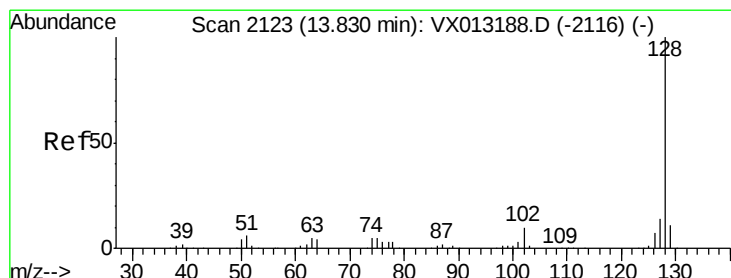
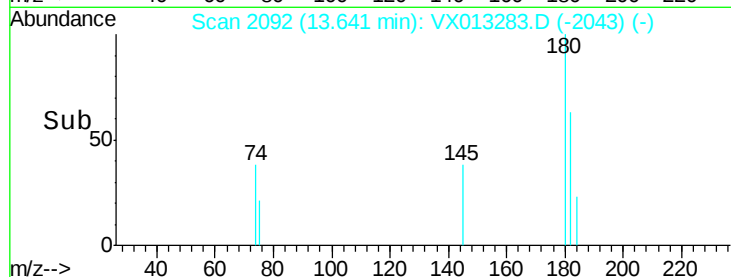
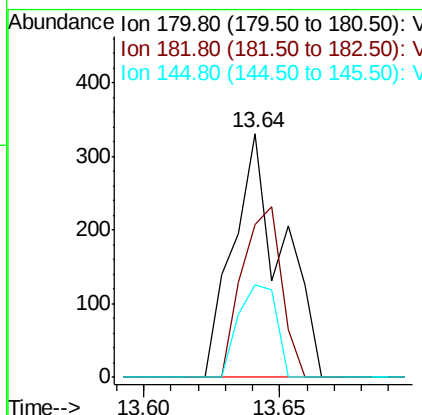
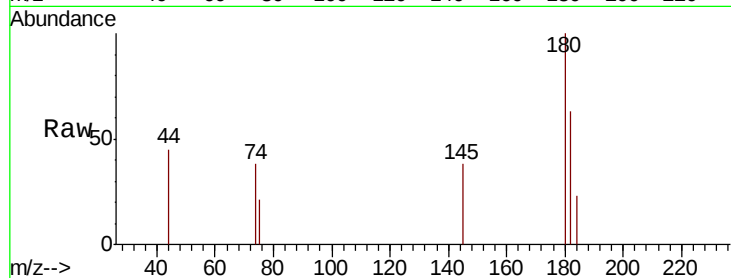




#93
 1,2,4-Trichlorobenzene
 Concen: 0.277 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013283.D
 Acq: 30 Oct 2019 14:03

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:180 Resp: 412
 Ion Ratio Lower Upper
 180 100
 182 56.3 45.9 137.6
 145 29.1 15.9 47.6



#95
 Naphthalene
 Concen: 0.200 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. -0.00 min
 Lab File: VX013283.D
 Acq: 30 Oct 2019 14:03

Tgt Ion:128 Resp: 916
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.7 16.1
 129 14.6 8.6 13.0#

