

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062619\
 Data File : VX010455.D
 Acq On : 26 Jun 2019 12:16
 Operator : JC/SP
 Sample : K3527-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 01:11:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	262452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	402256	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	360884	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167084	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	123778	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
35) Dibromofluoromethane	5.50	113	122151	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
50) Toluene-d8	8.71	98	474661	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
62) 4-Bromofluorobenzene	11.13	95	159304	46.86	ug/l	0.00
Spiked Amount			Recovery	=	93.72%	

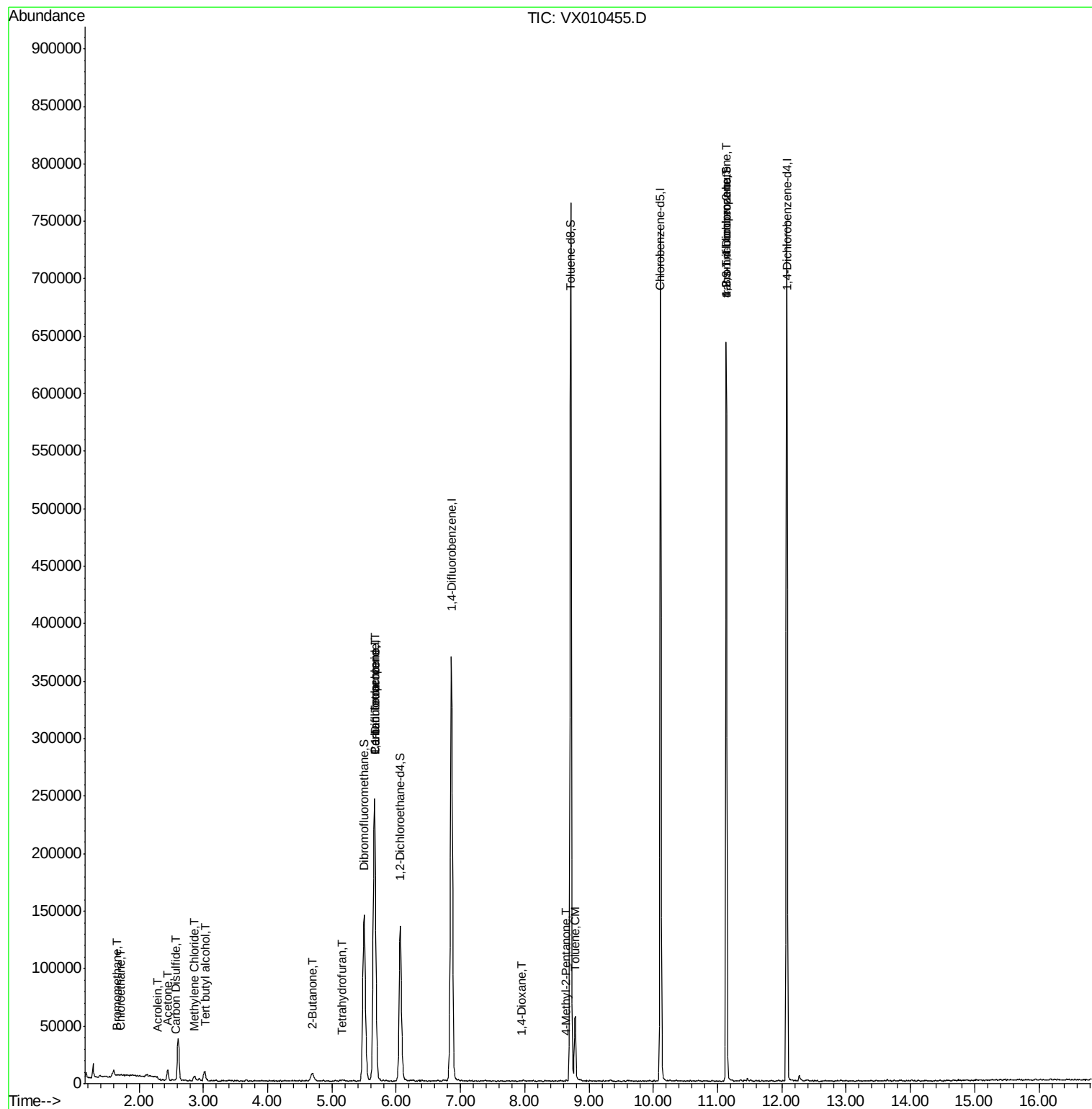
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	274	0.242	ug/l	97
6) Chloroethane	1.71	64	646	0.471	ug/l #	41
11) Tert butyl alcohol	3.03	59	5265	8.177	ug/l #	82
13) Acrolein	2.28	56	218	0.510	ug/l #	76
16) Acetone	2.45	43	10331	8.377	ug/l	99
17) Carbon Disulfide	2.57	76	1731	0.284	ug/l	96
20) Methylene Chloride	2.85	84	2069	0.815	ug/l #	90
25) 2-Butanone	4.69	43	1665	0.920	ug/l	93
29) Tetrahydrofuran	5.15	42	1004	0.896	ug/l	94
36) 1,1-Dichloropropene	5.67	75	15615	4.885	ug/l #	48
38) Carbon Tetrachloride	5.66	117	23309	6.734	ug/l #	15
49) 1,4-Dioxane	7.96	88	23	0.316	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	901	0.259	ug/l	100
52) Toluene	8.79	92	21867	3.334	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	76292	25.057	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	76292	58.456	ug/l #	16

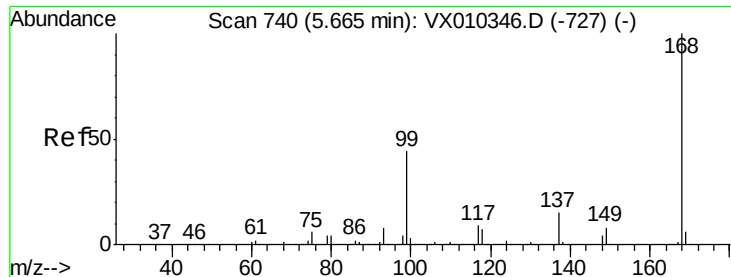
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

Instrument :

MSVOA_X

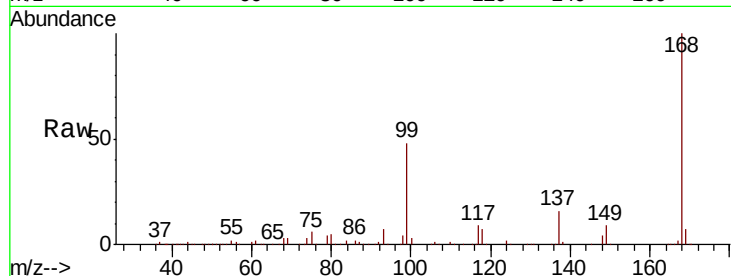
ClientSampleId :

Tot Ion:168 Resp: 262452

Ion Ratio Lower Upper

168 100

99 48.1 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

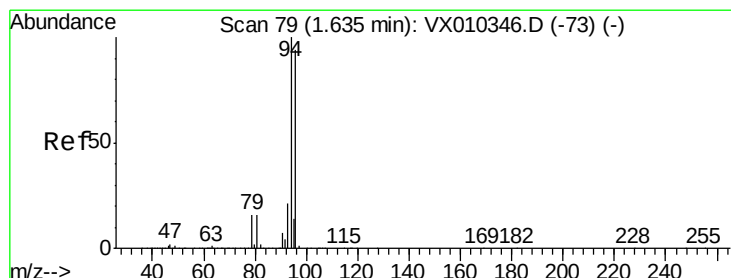
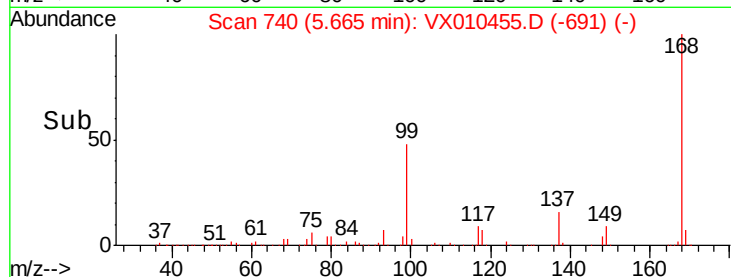
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.242 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010455.D

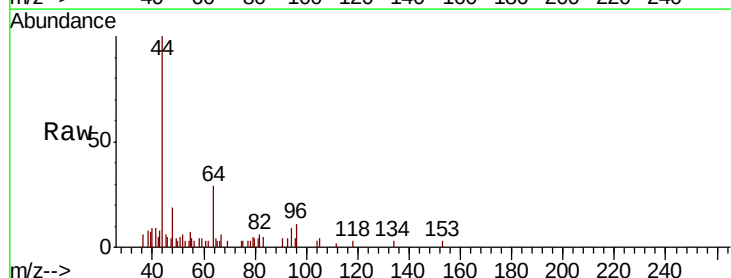
Acq: 26 Jun 2019 12:16

Tgt Ion: 94 Resp: 274

Ion Ratio Lower Upper

94 100

96 91.7 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

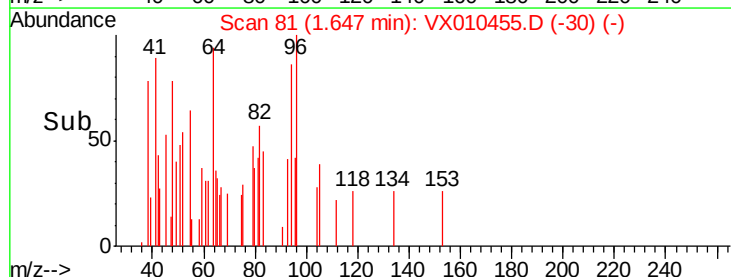
150

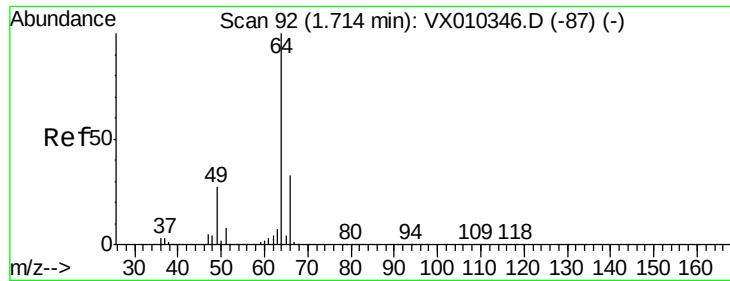
100

50

0

Time--> 1.62 1.64 1.66





#6

Chloroethane

Concen: 0.471 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

Instrument :

MSVOA_X

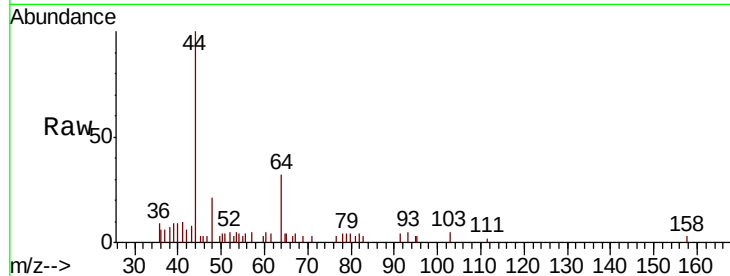
ClientSampleId :

Tot Ion: 64 Resp: 646

Ion Ratio Lower Upper

64 100

66 0.0 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

600

400

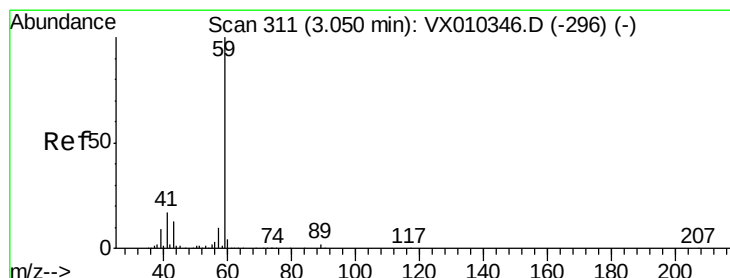
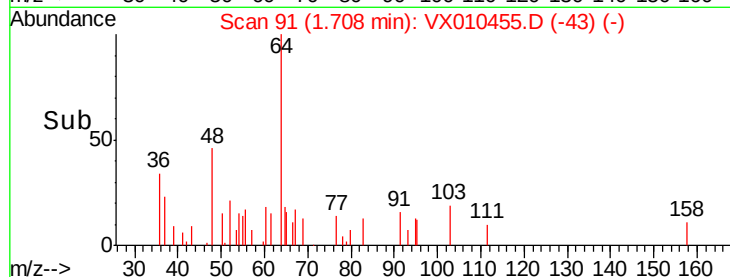
200

0

1.65

1.70

Time-->



#11

Tert butyl alcohol

Concen: 8.177 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX010455.D

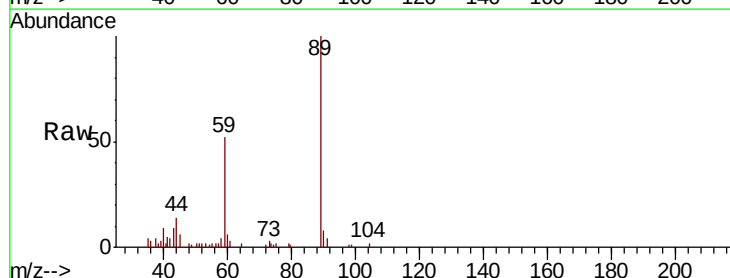
Acq: 26 Jun 2019 12:16

Tgt Ion: 59 Resp: 5265

Ion Ratio Lower Upper

59 100

57 3.1 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

2000

1500

1000

500

0

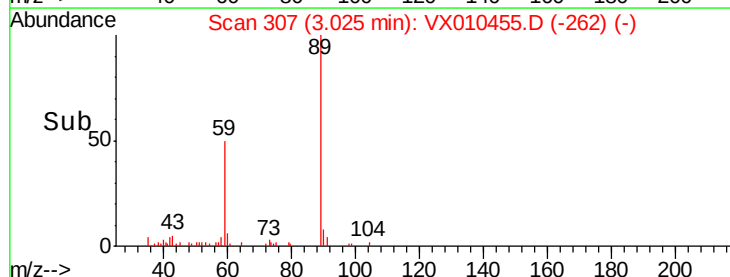
2.95

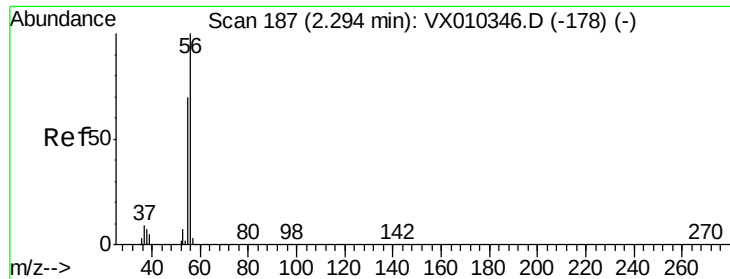
3.00

3.05

3.10

Time-->





#13

Acrolein

Concen: 0.510 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

Instrument :

MSVOA_X

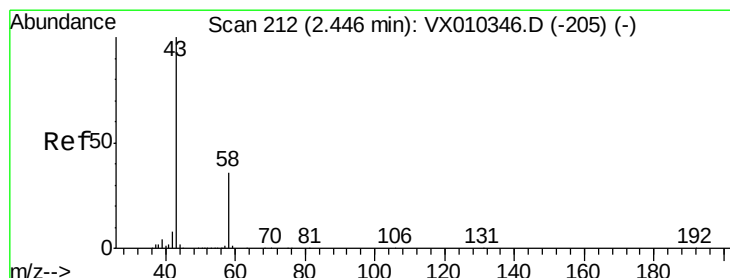
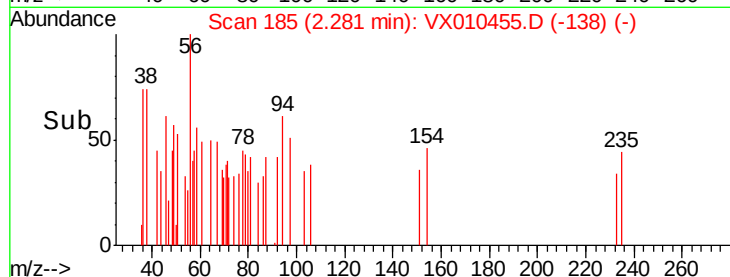
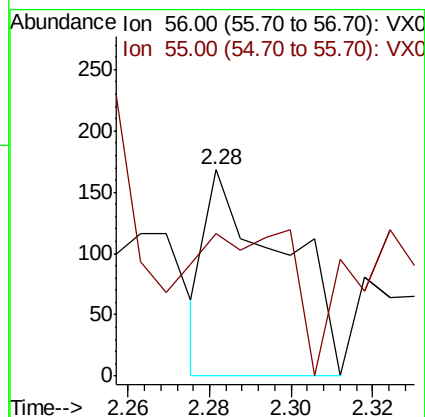
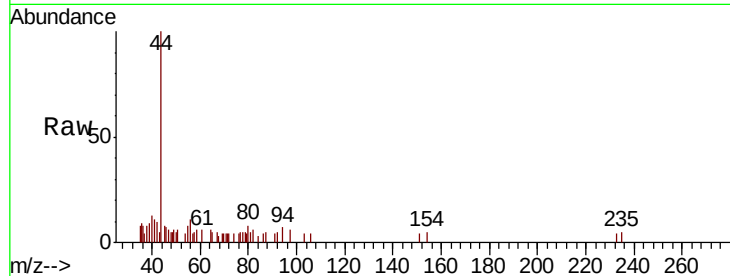
ClientSampleId :

Tot Ion: 56 Resp: 218

Ion Ratio Lower Upper

56 100

55 90.8 56.9 85.3#



#16

Acetone

Concen: 8.377 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010455.D

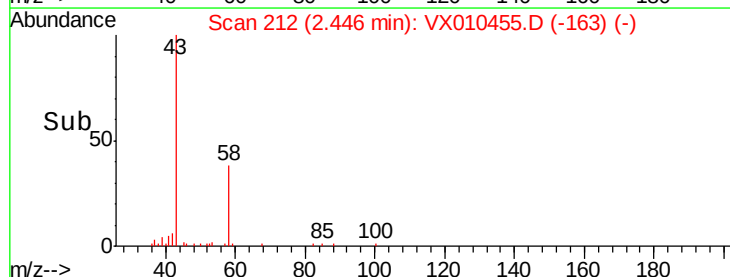
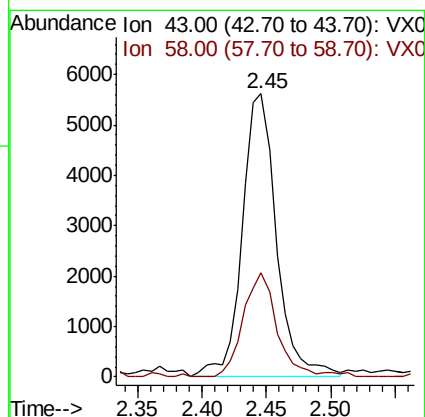
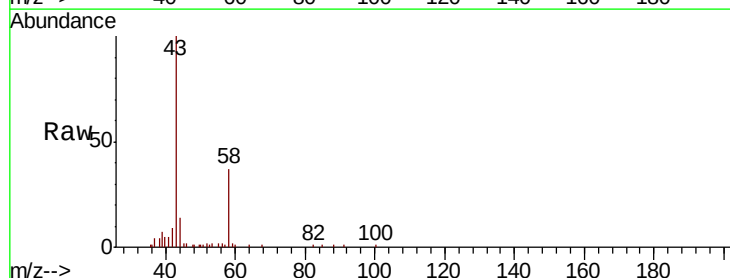
Acq: 26 Jun 2019 12:16

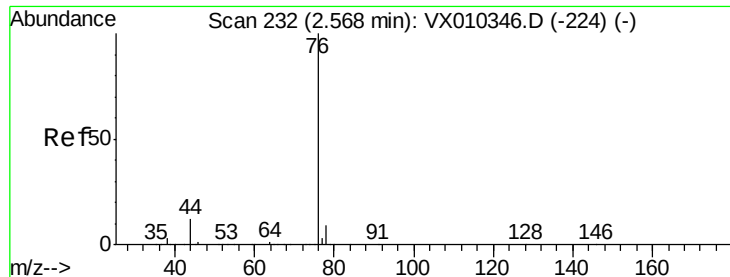
Tgt Ion: 43 Resp: 10331

Ion Ratio Lower Upper

43 100

58 36.7 28.9 43.3

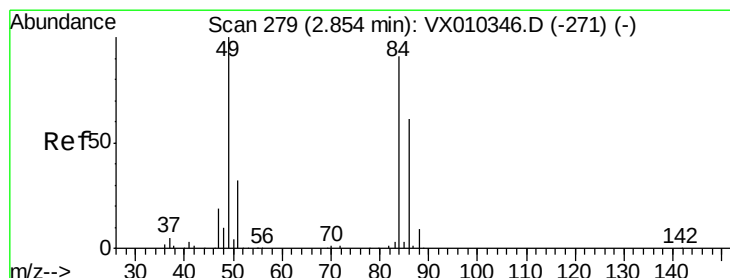
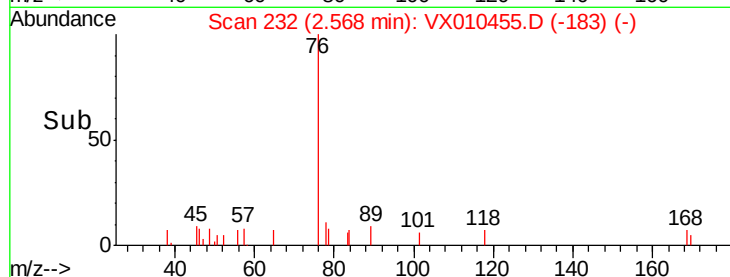
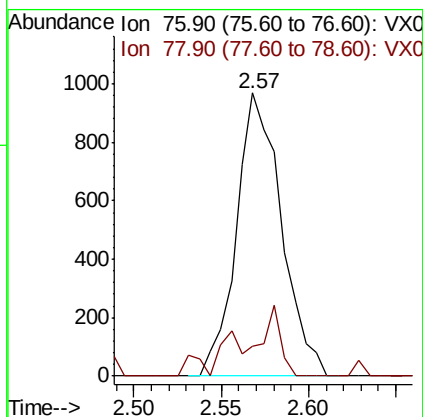
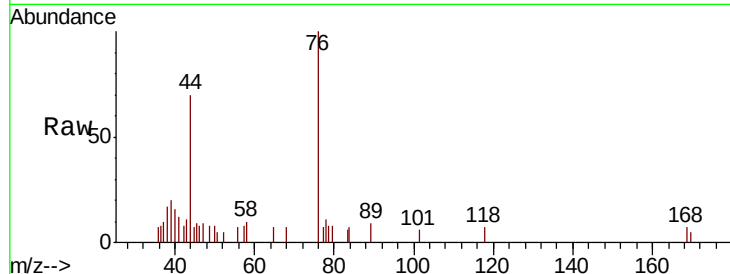




#17
Carbon Disulfide
Concen: 0.284 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX010455.D
Acq: 26 Jun 2019 12:16

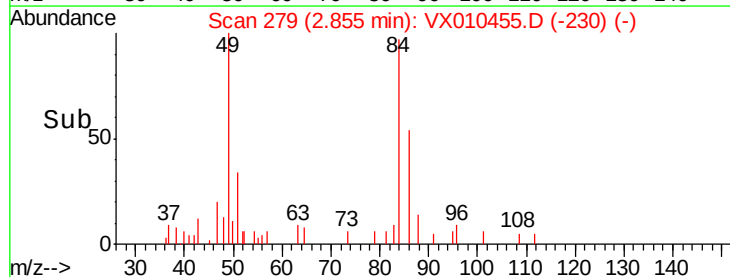
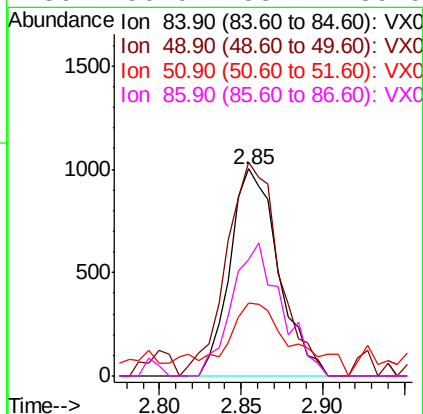
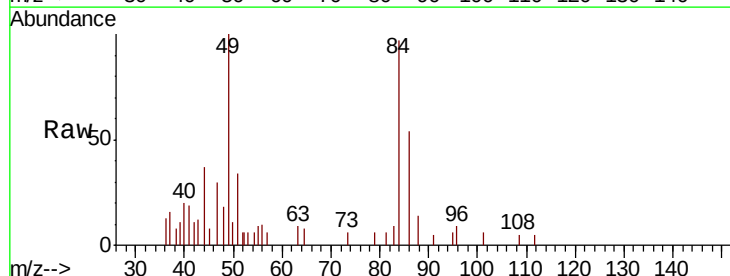
Instrument :
MSVOA_X
ClientSampled :

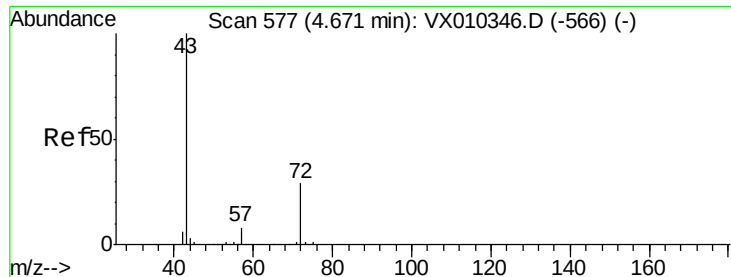
Tot Ion: 76 Resp: 1731
Ion Ratio Lower Upper
76 100
78 10.5 7.3 10.9



#20
Methylene Chloride
Concen: 0.815 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX010455.D
Acq: 26 Jun 2019 12:16

Tgt Ion: 84 Resp: 2069
Ion Ratio Lower Upper
84 100
49 103.1 87.5 131.3
51 25.2 27.7 41.5#
86 56.0 53.4 80.0





#25

2-Butanone

Concen: 0.920 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

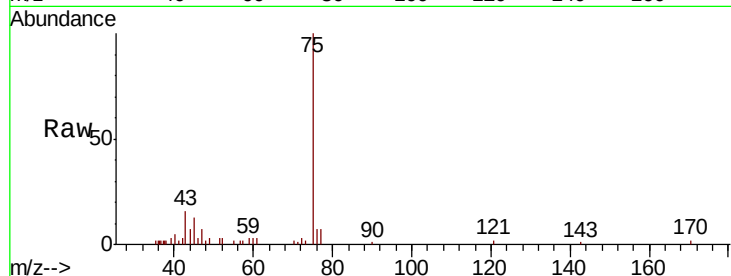
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1665

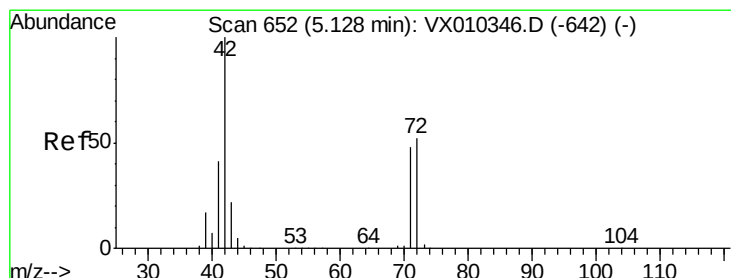
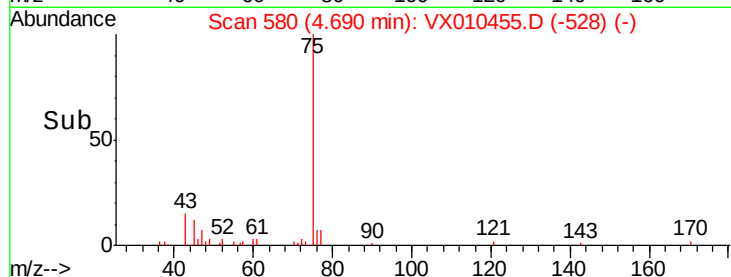
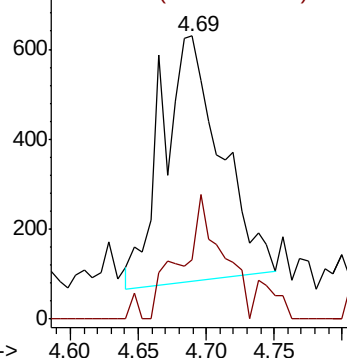
Ion Ratio Lower Upper

43 100

72 25.5 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.896 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

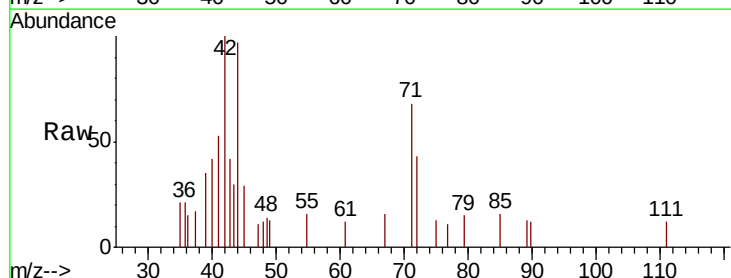
Tgt Ion: 42 Resp: 1004

Ion Ratio Lower Upper

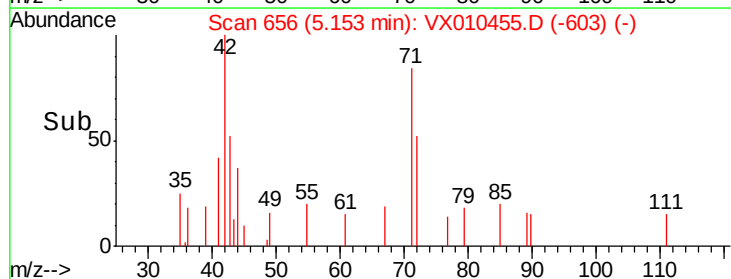
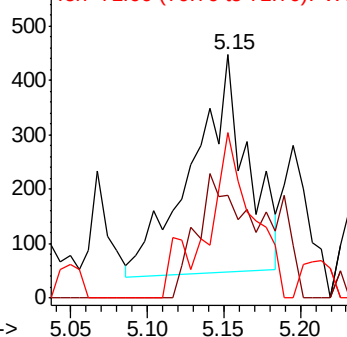
42 100

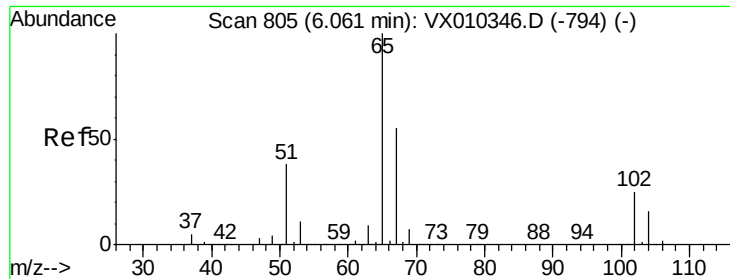
72 48.5 40.6 60.8

71 53.1 37.8 56.8



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

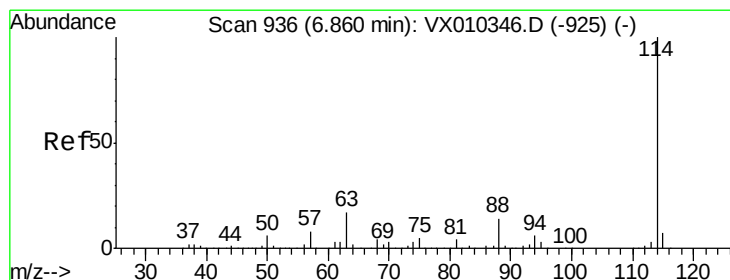
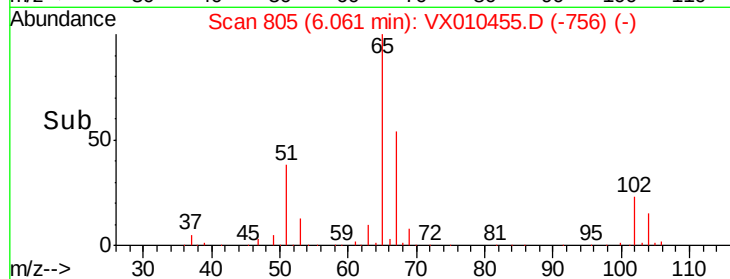
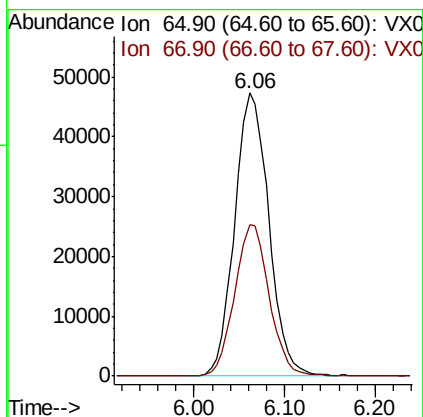
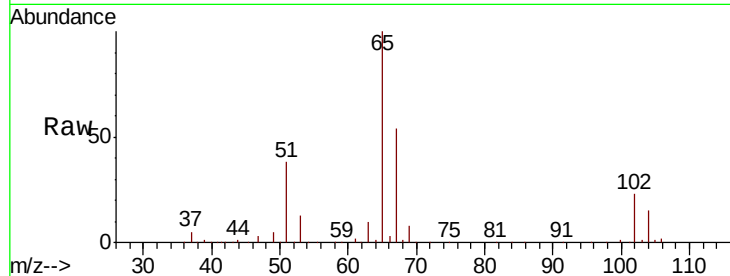




#33
 1,2-Dichloroethane-d4
 Concen: 50.301 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010455.D
 Acq: 26 Jun 2019 12:16

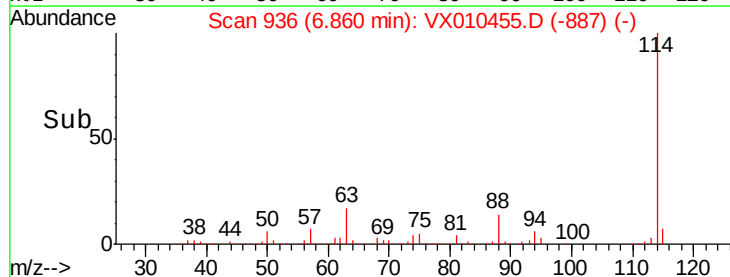
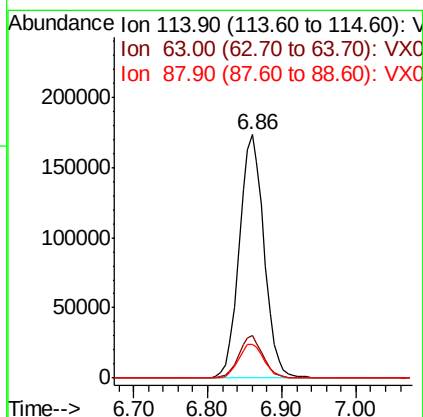
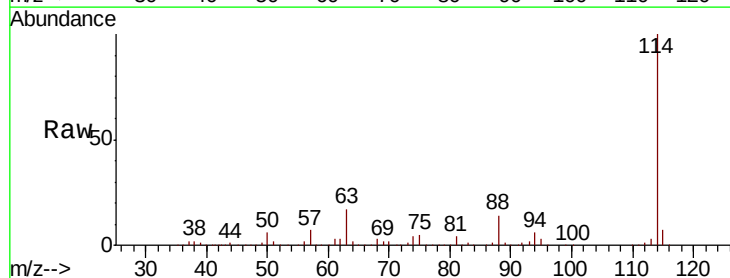
Instrument :
 MSVOA_X
 ClientSampled :

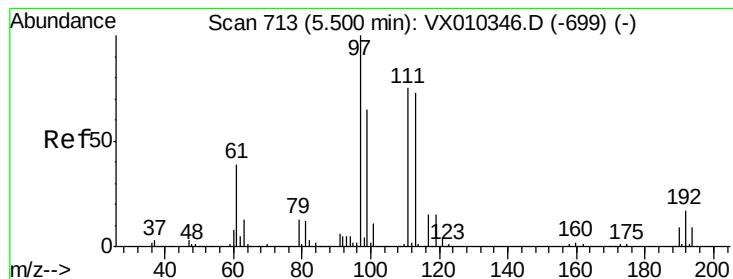
Tot Ion: 65 Resp: 123778
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010455.D
 Acq: 26 Jun 2019 12:16

Tgt Ion: 114 Resp: 402256
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 33.8
 88 13.8 0.0 27.6





#35

Dibromofluoromethane

Concen: 49.632 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

Instrument :

MSVOA_X

ClientSampled :

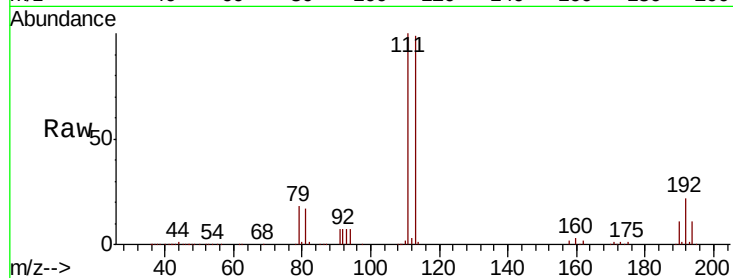
Tot Ion:113 Resp: 122151

Ion Ratio Lower Upper

113 100

111 101.9 81.2 121.8

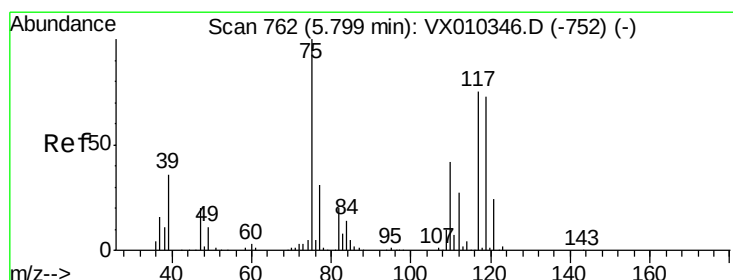
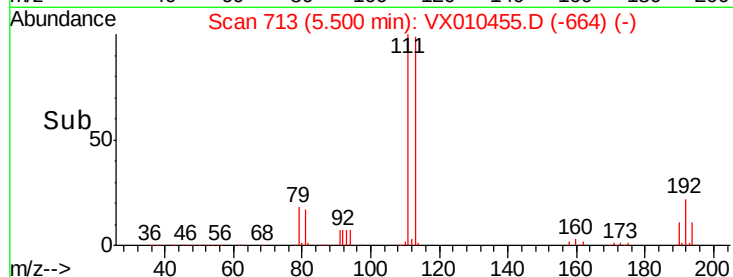
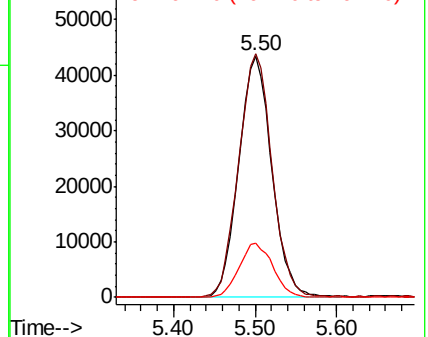
192 22.9 18.6 27.8



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: 4.885 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

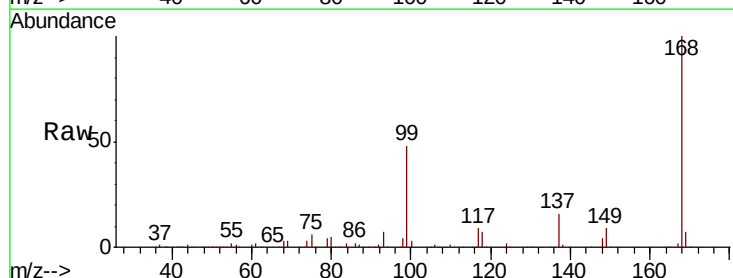
Tgt Ion: 75 Resp: 15615

Ion Ratio Lower Upper

75 100

110 11.3 20.8 62.2#

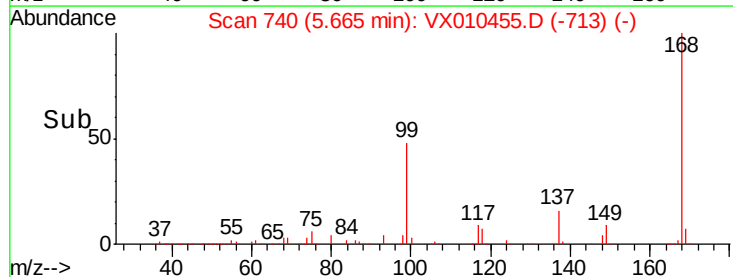
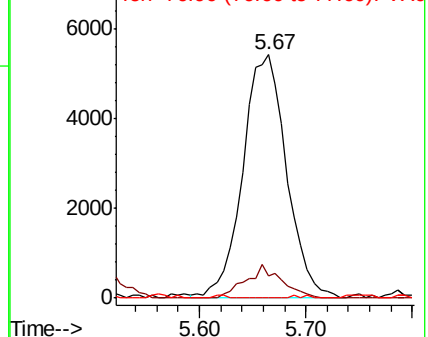
77 0.0 25.4 38.0#

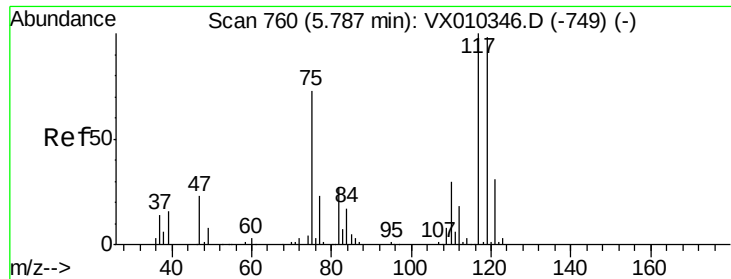


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.734 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

Instrument :

MSVOA_X

ClientSampled :

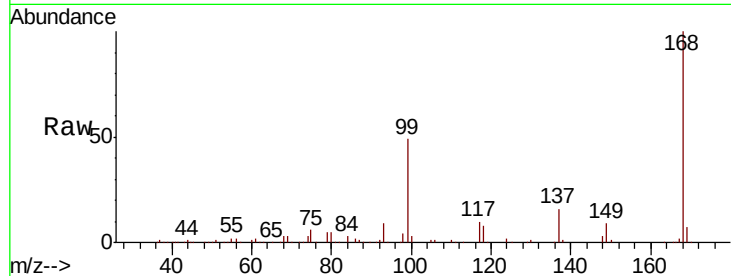
Tot Ion:117 Resp: 23309

Ion Ratio Lower Upper

117 100

119 5.1 78.2 117.4#

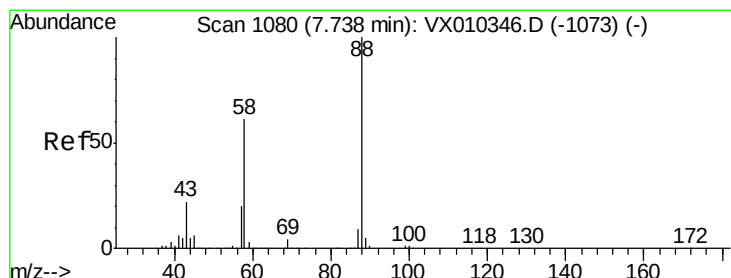
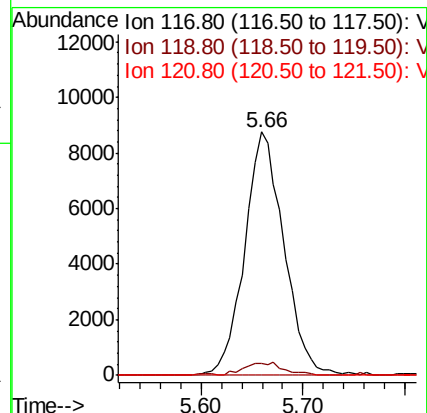
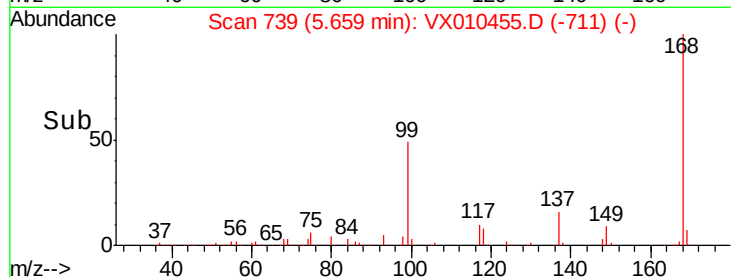
121 0.0 24.7 37.1#



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: 0.316 ug/l

RT: 7.96 min Scan# 1116

Delta R.T. 0.22 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

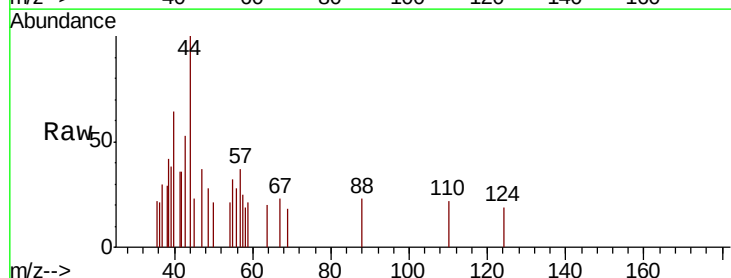
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 3273.9 20.2 30.2#

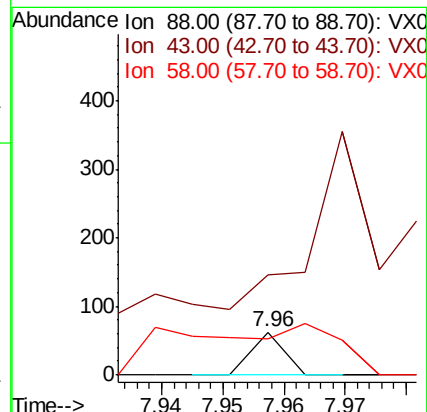
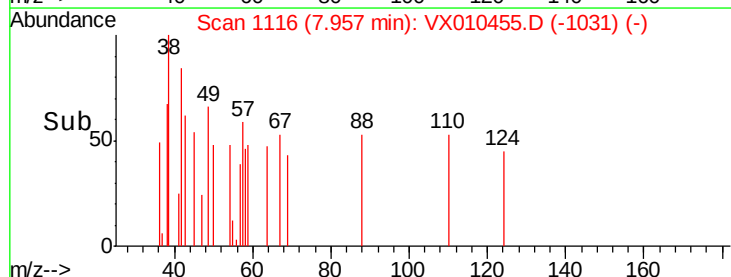
58 0.0 49.5 74.3#

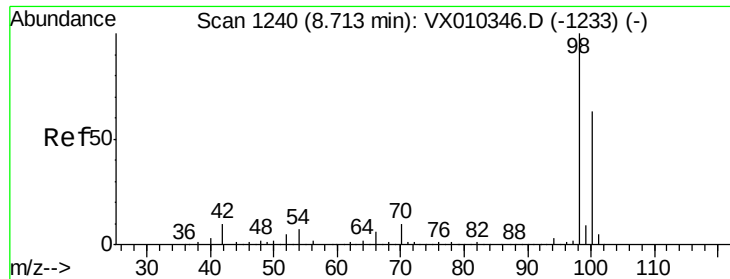


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

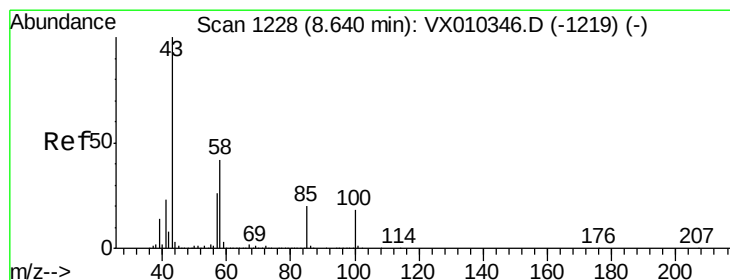
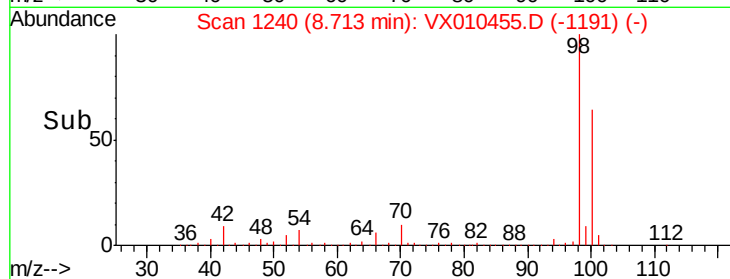
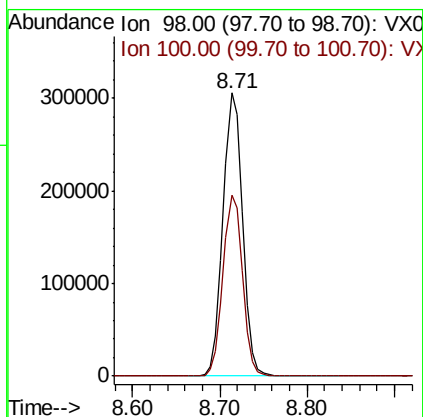
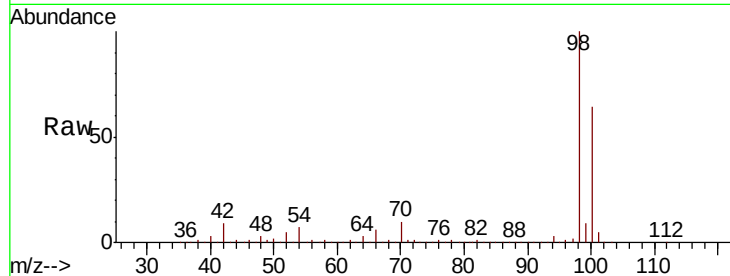




#50
Toluene-d8
Concen: 50.411 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010455.D
Acq: 26 Jun 2019 12:16

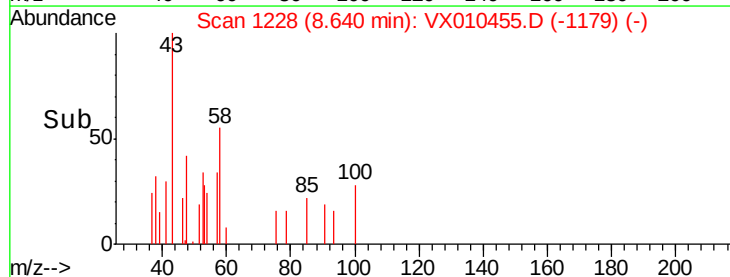
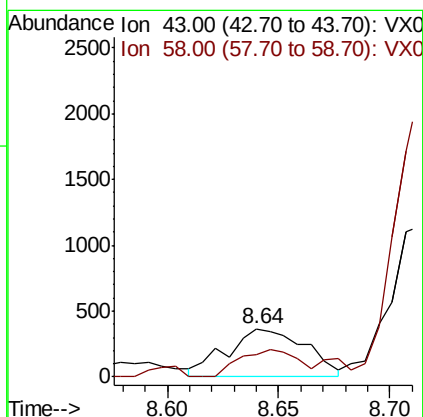
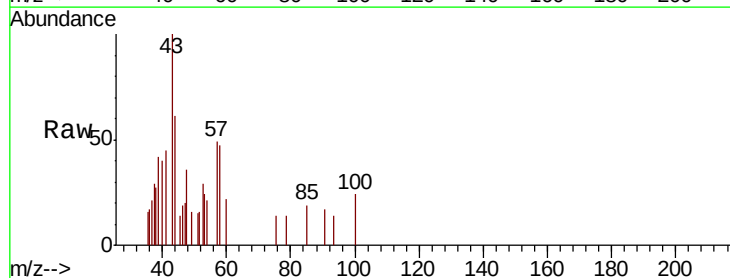
Instrument :
MSVOA_X
ClientSampled :

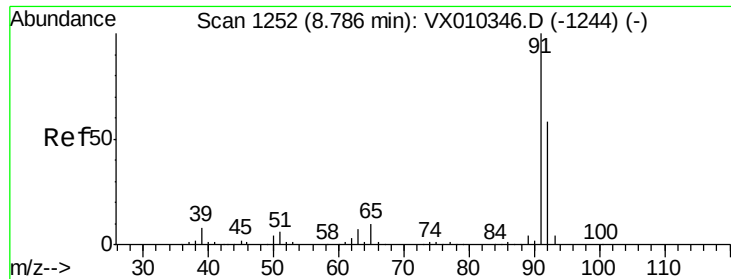
Tot Ion: 98 Resp: 474661
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 0.259 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX010455.D
Acq: 26 Jun 2019 12:16

Tgt Ion: 43 Resp: 901
Ion Ratio Lower Upper
43 100
58 42.0 33.5 50.3





#52

Toluene

Concen: 3.334 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

Instrument :

MSVOA_X

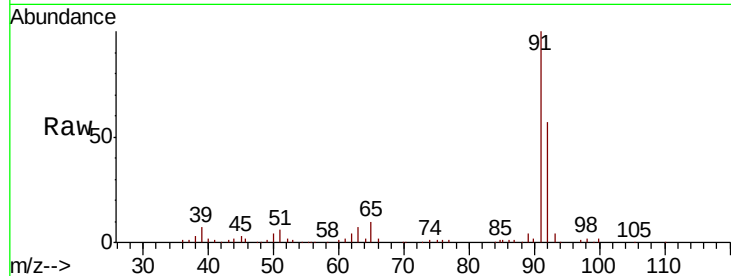
ClientSampled :

Tot Ion: 92 Resp: 21867

Ion Ratio Lower Upper

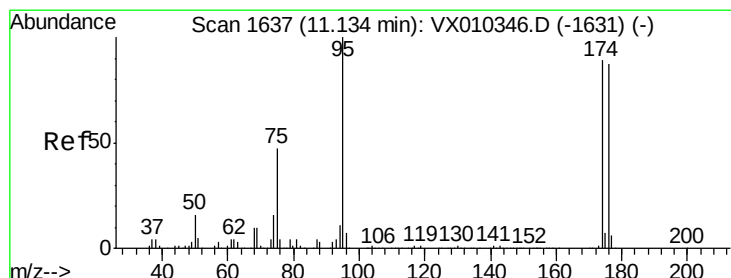
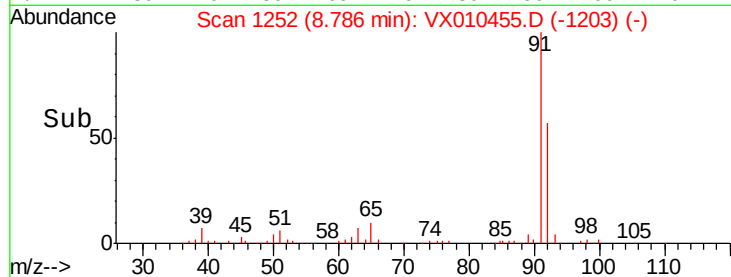
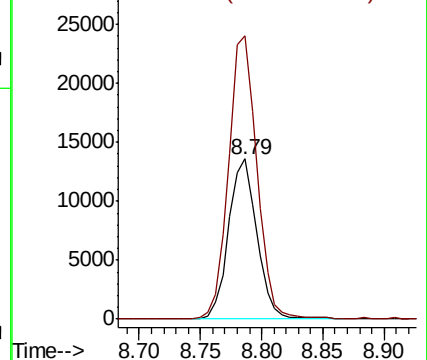
92 100

91 176.4 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.862 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

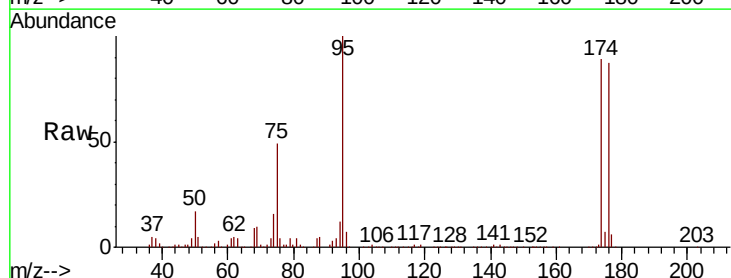
Tgt Ion: 95 Resp: 159304

Ion Ratio Lower Upper

95 100

174 95.4 0.0 187.6

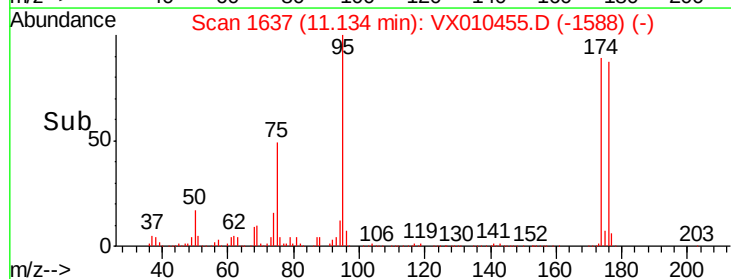
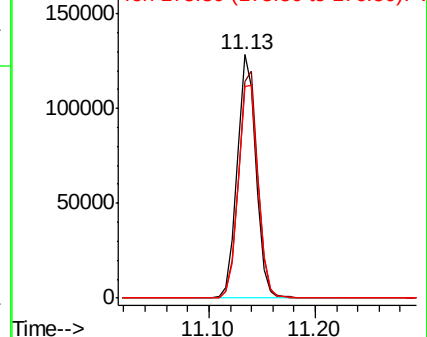
176 92.3 0.0 184.0

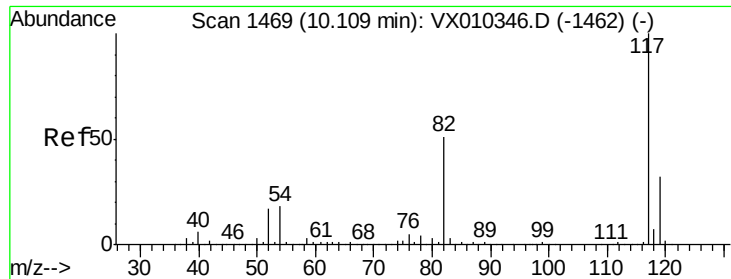


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

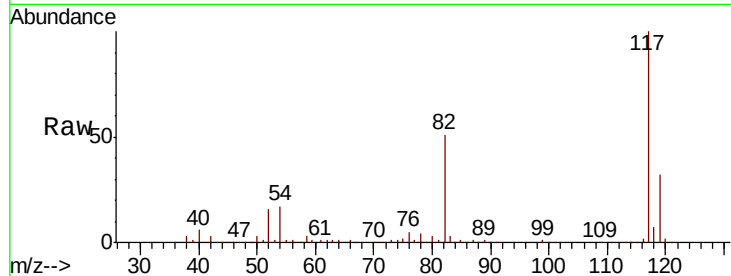




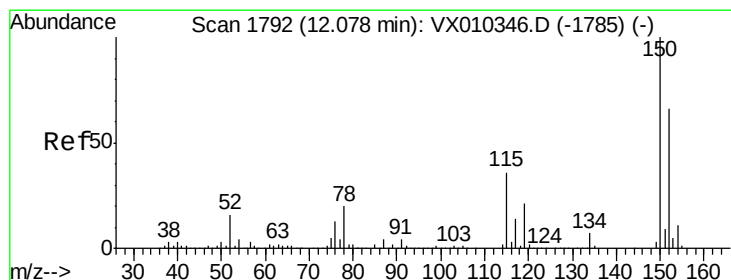
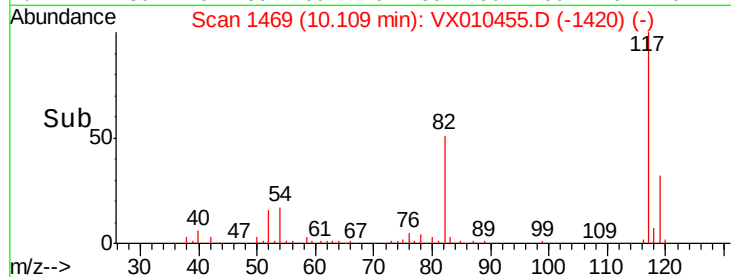
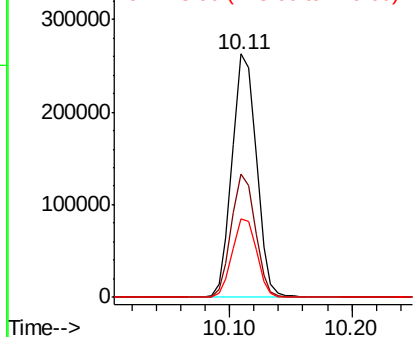
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.11 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VX010455.D
 Acq: 26 Jun 2019 12:16

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.7	41.2	61.8
119	32.4	25.5	38.3

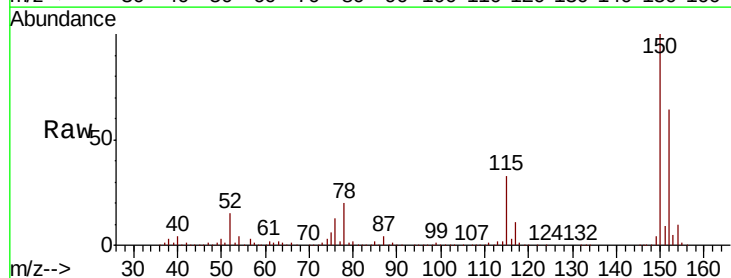


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VX0
 Ion 118.90 (118.60 to 119.60): V

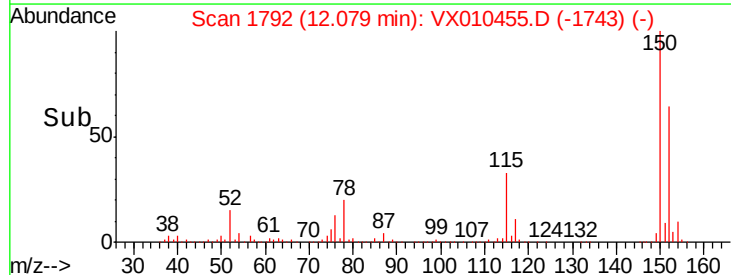
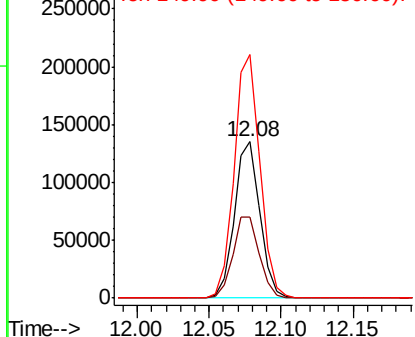


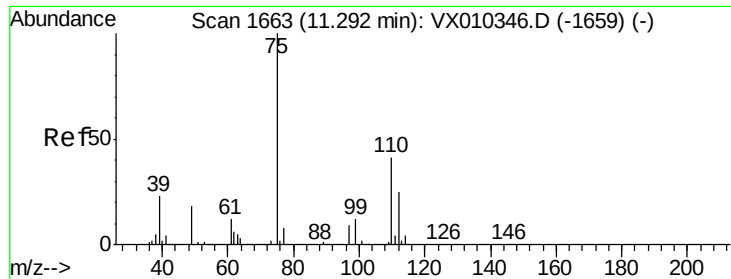
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX010455.D
 Acq: 26 Jun 2019 12:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.2	38.6	115.7
150	157.8	0.0	347.4



Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.057 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

Instrument :

MSVOA_X

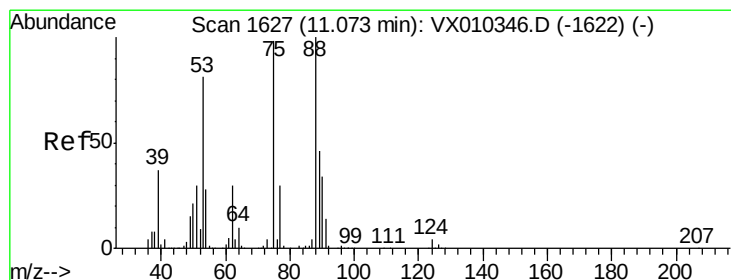
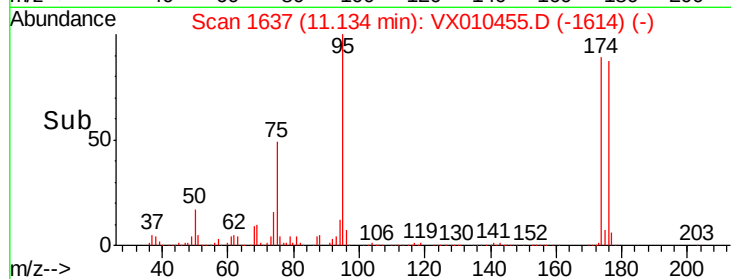
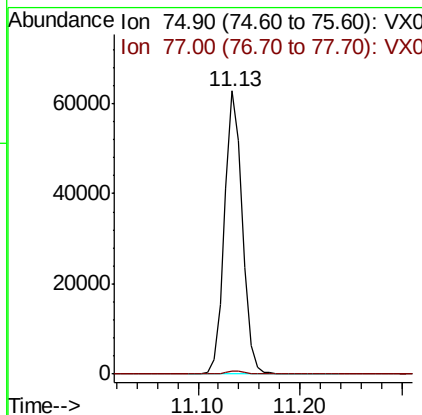
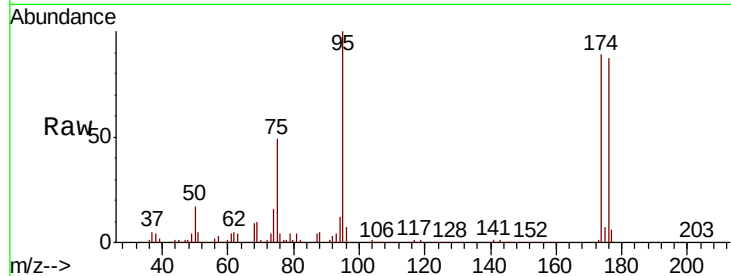
ClientSampleId :

Tot Ion: 75 Resp: 76292

Ion Ratio Lower Upper

75 100

77 1.3 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.456 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010455.D

Acq: 26 Jun 2019 12:16

Tgt Ion: 75 Resp: 76292

Ion Ratio Lower Upper

75 100

53 0.2 66.1 99.1#

89 0.0 37.8 56.6#

