

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072519\
 Data File : VX011076.D
 Acq On : 25 Jul 2019 15:13
 Operator : JC/SP
 Sample : K3995-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 A1014

Quant Time: Jul 26 01:26:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	204353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	323329	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	300307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	137695	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	109462	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
35) Dibromofluoromethane	5.49	113	101922	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
50) Toluene-d8	8.71	98	386609	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	11.13	95	138336	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	

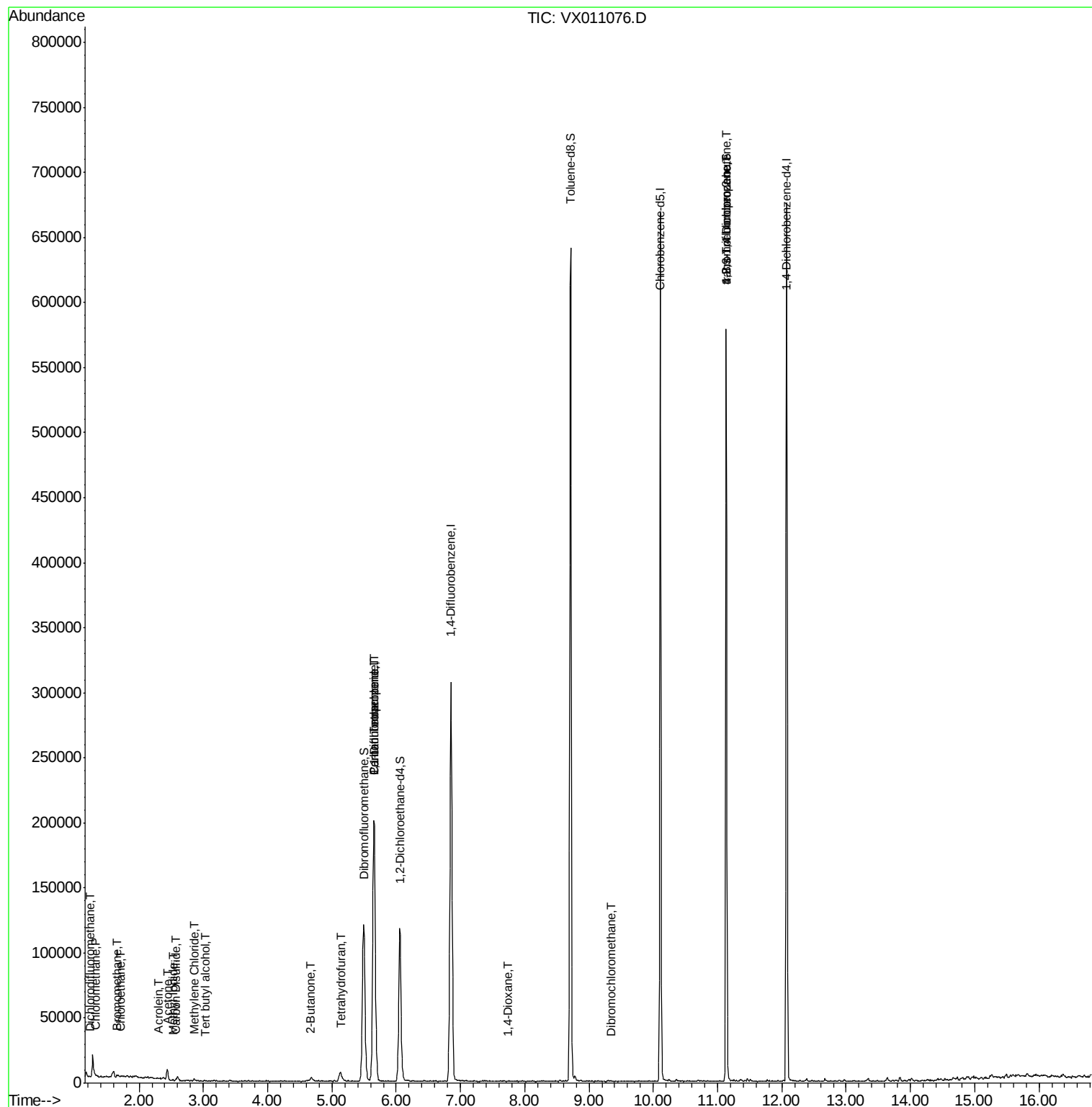
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.23	85	21	0.556	ug/l #	43
3) Chloromethane	1.33	50	500	0.266	ug/l #	83
5) Bromomethane	1.65	94	638	0.591	ug/l #	76
6) Chloroethane	1.71	64	308	0.253	ug/l #	71
10) Methyl Iodide	2.52	142	842	0.346	ug/l	93
11) Tert butyl alcohol	3.03	59	423	0.835	ug/l #	70
13) Acrolein	2.29	56	132	0.451	ug/l	84
16) Acetone	2.44	43	9298	9.470	ug/l	98
17) Carbon Disulfide	2.57	76	1135	0.243	ug/l #	95
20) Methylene Chloride	2.85	84	705	0.339	ug/l #	78
25) 2-Butanone	4.68	43	5250	3.725	ug/l	100
29) Tetrahydrofuran	5.13	42	6941	7.774	ug/l	94
36) 1,1-Dichloropropene	5.65	75	13504	5.085	ug/l #	50
38) Carbon Tetrachloride	5.65	117	18552	6.704	ug/l #	17
49) 1,4-Dioxane	7.74	88	47	0.771	ug/l #	34
60) Dibromochloromethane	9.34	129	100	2.565	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	68650	27.628	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	68650	68.406	ug/l #	11

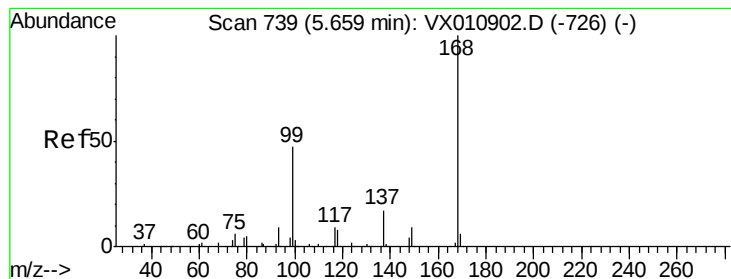
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

Instrument :

MSVOA_X

ClientSampled :

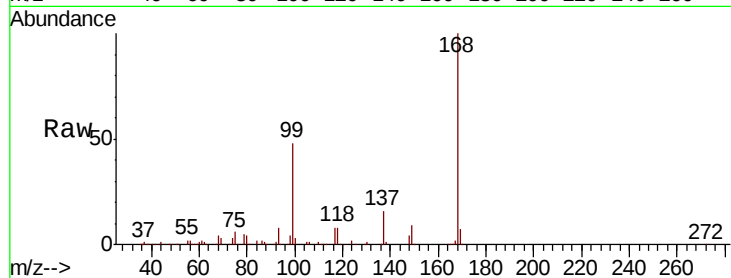
A1014

Tot Ion:168 Resp: 204353

Ion Ratio Lower Upper

168 100

99 48.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

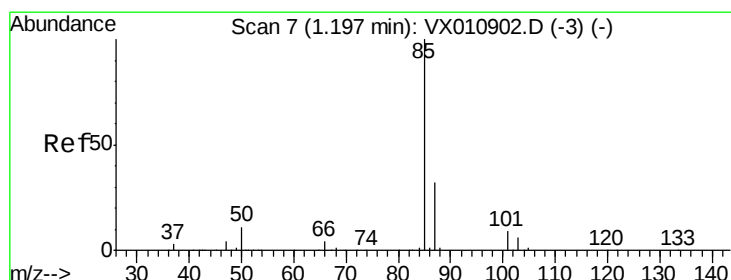
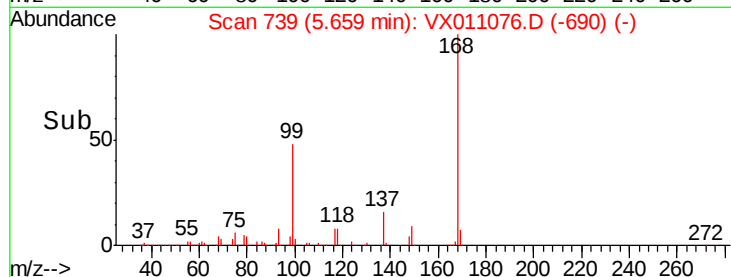
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.556 ug/l

RT: 1.23 min Scan# 13

Delta R.T. 0.04 min

Lab File: VX011076.D

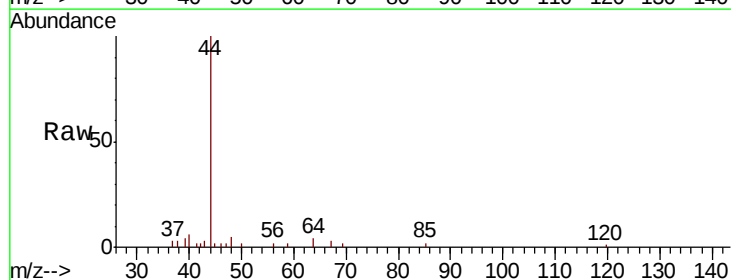
Acq: 25 Jul 2019 15:13

Tgt Ion: 85 Resp: 21

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.23

60

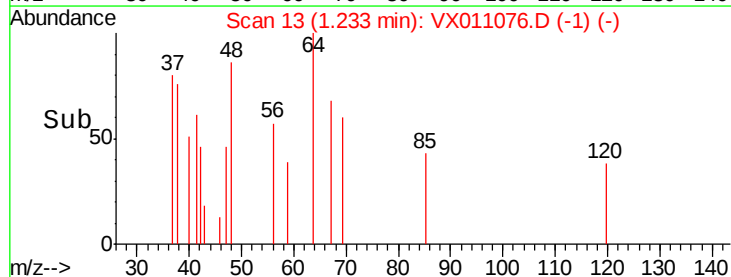
40

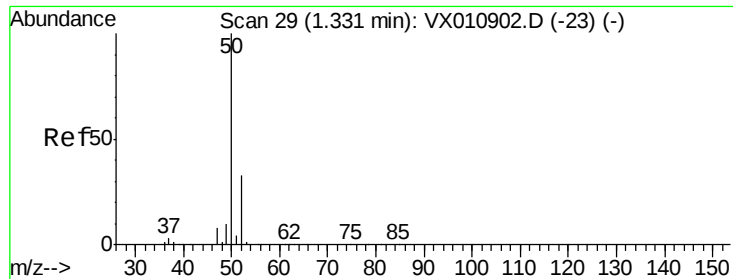
20

0

Time-->

1.21 1.22 1.23 1.24 1.25





#3

Chloromethane

Concen: 0.266 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

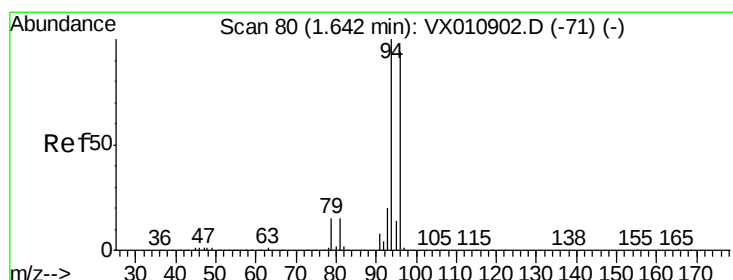
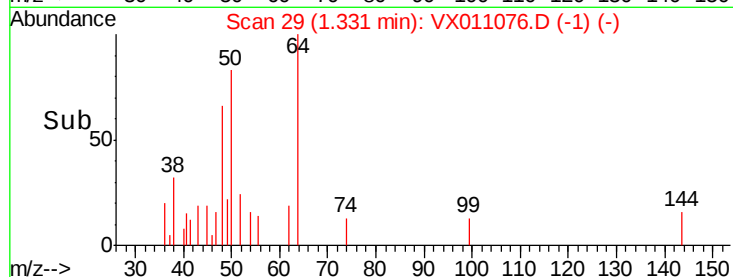
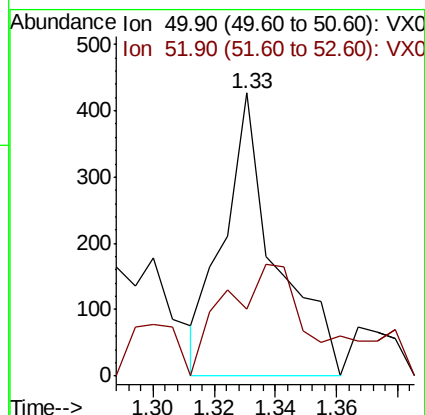
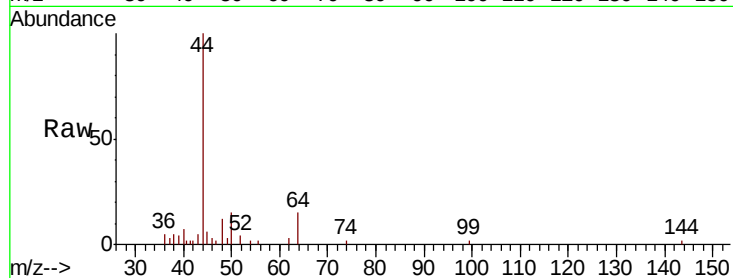
A1014

Tot Ion: 50 Resp: 500

Ion Ratio Lower Upper

50 100

52 23.7 26.4 39.6#



#5

Bromomethane

Concen: 0.591 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011076.D

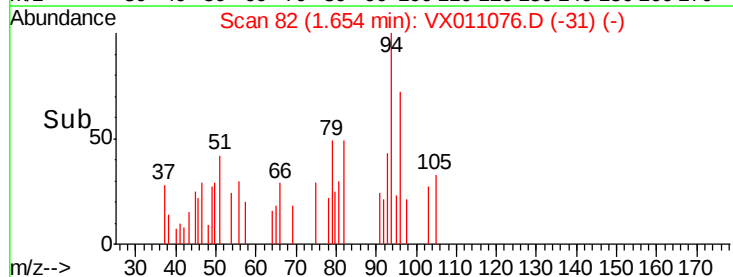
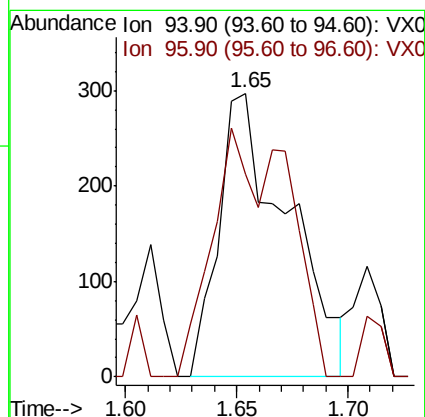
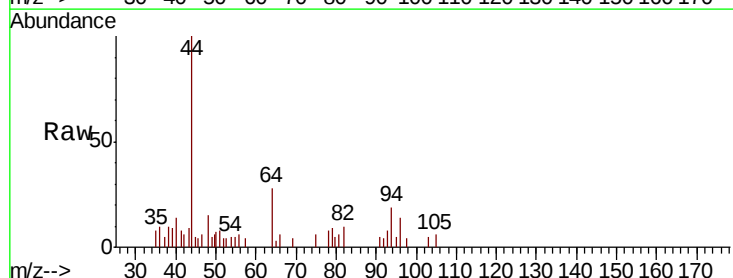
Acq: 25 Jul 2019 15:13

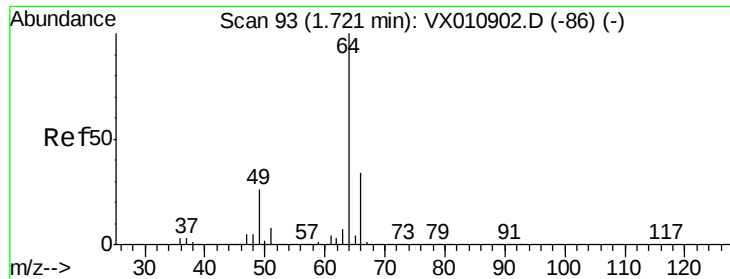
Tgt Ion: 94 Resp: 638

Ion Ratio Lower Upper

94 100

96 71.7 75.6 113.4#





#6

Chloroethane

Concen: 0.253 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

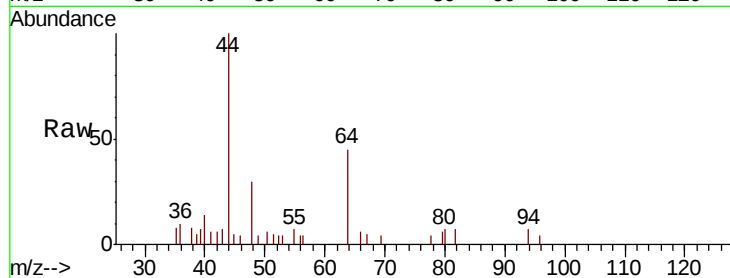
A1014

Tot Ion: 64 Resp: 308

Ion Ratio Lower Upper

64 100

66 17.4 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

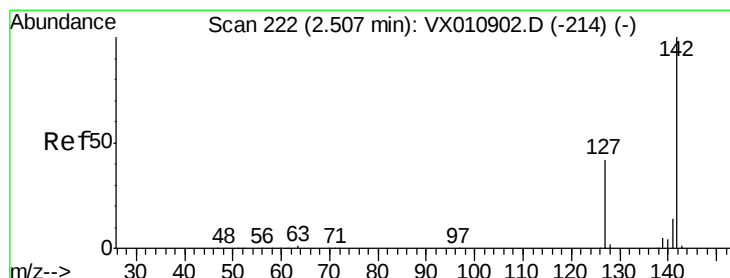
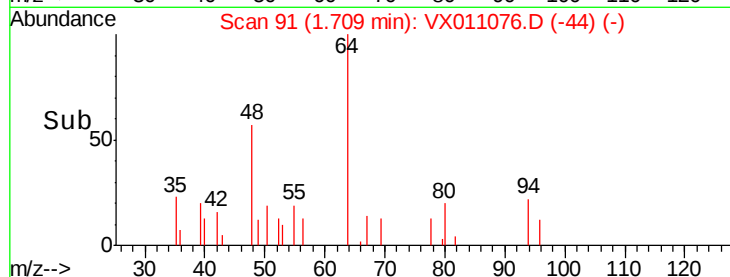
600

400

200

0

Time--> 1.68 1.70 1.72 1.74



#10

Methyl Iodide

Concen: 0.346 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

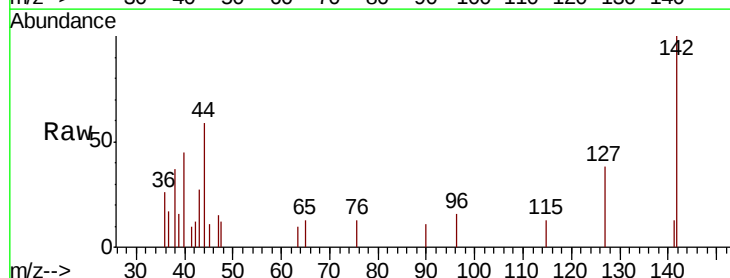
Tgt Ion: 142 Resp: 842

Ion Ratio Lower Upper

142 100

127 48.7 34.2 51.4

141 14.4 11.7 17.5



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

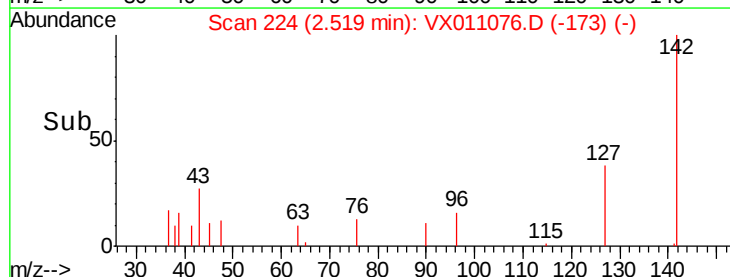
600

400

200

0

Time--> 2.45 2.50 2.55



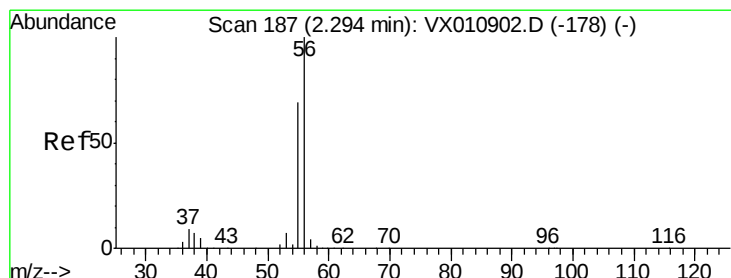
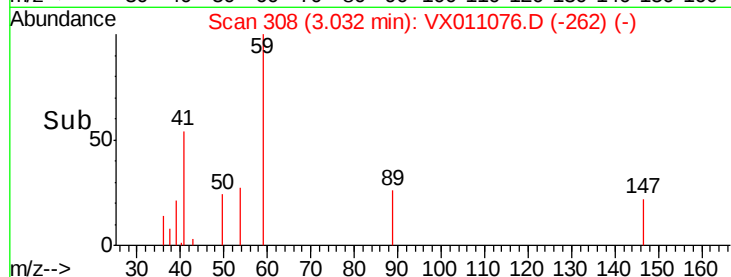
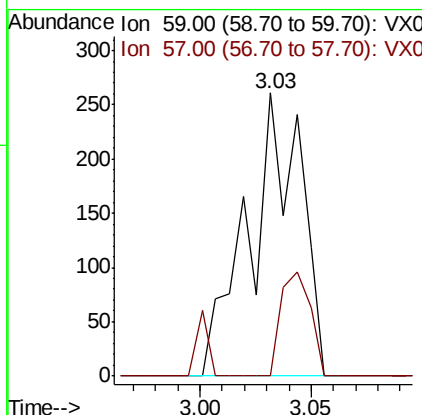
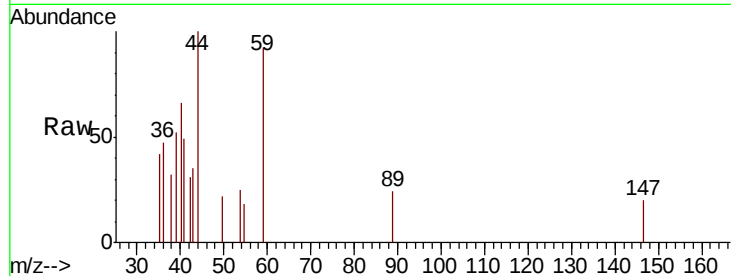


#11

Tert butyl alcohol
Concen: 0.835 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

Instrument :
MSVOA_X
ClientSampled :
A1014

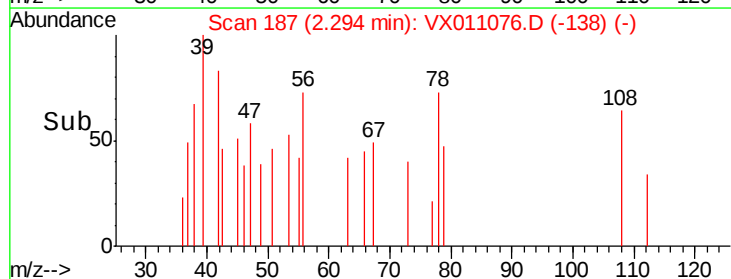
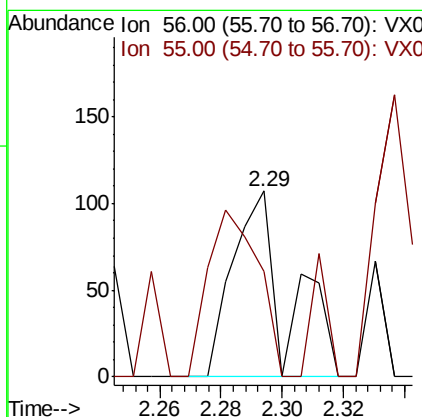
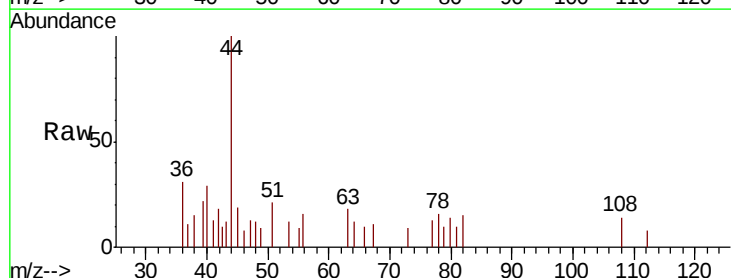
Tot Ion: 59 Resp: 423
Ion Ratio Lower Upper
59 100
57 20.8 7.9 11.9#

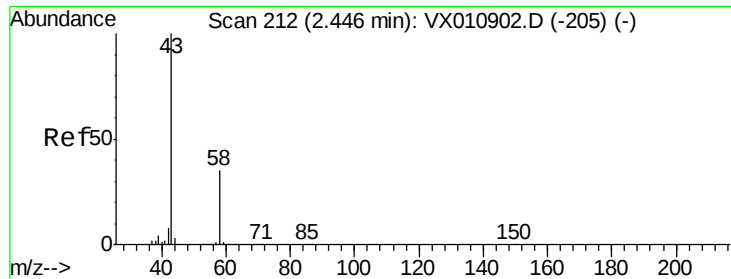


#13

Acrolein
Concen: 0.451 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

Tgt Ion: 56 Resp: 132
Ion Ratio Lower Upper
56 100
55 83.3 55.9 83.9





#16

Acetone

Concen: 9.470 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

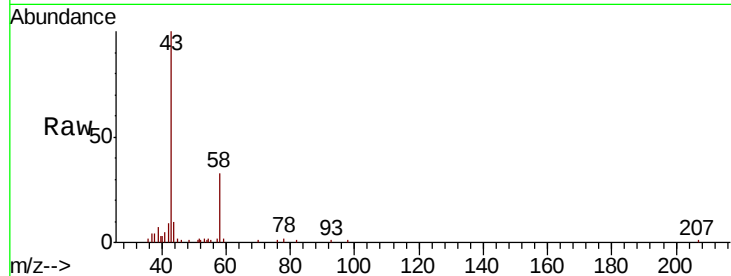
A1014

Tot Ion: 43 Resp: 9298

Ion Ratio Lower Upper

43 100

58 33.2 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

6000

5000

4000

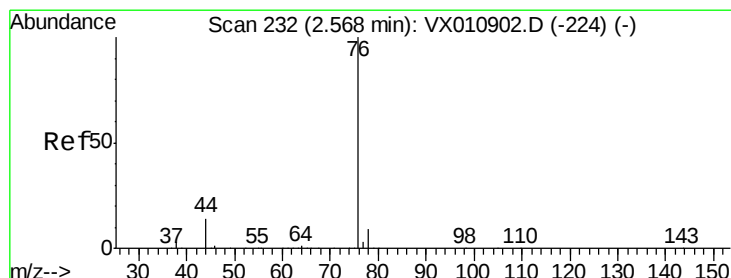
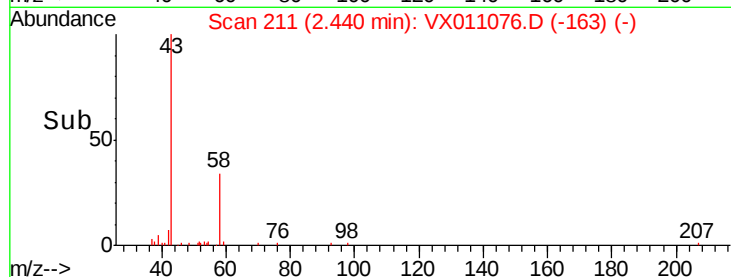
3000

2000

1000

0

Time--> 2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.243 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX011076.D

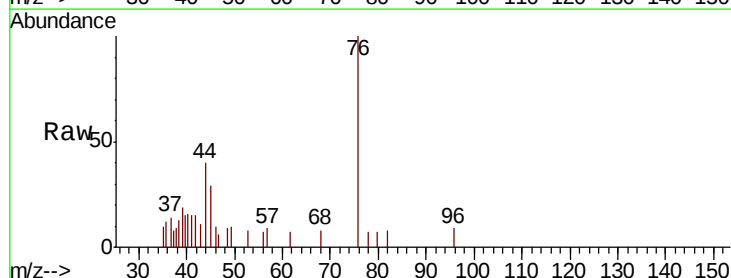
Acq: 25 Jul 2019 15:13

Tgt Ion: 76 Resp: 1135

Ion Ratio Lower Upper

76 100

78 7.2 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

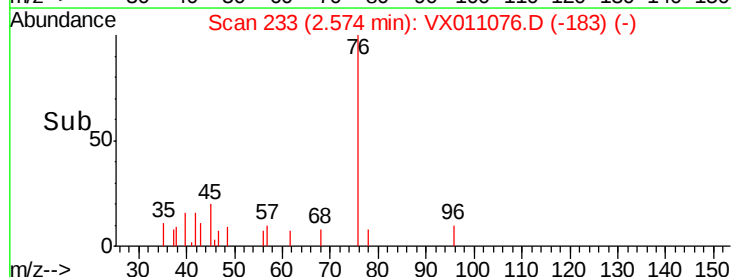
600

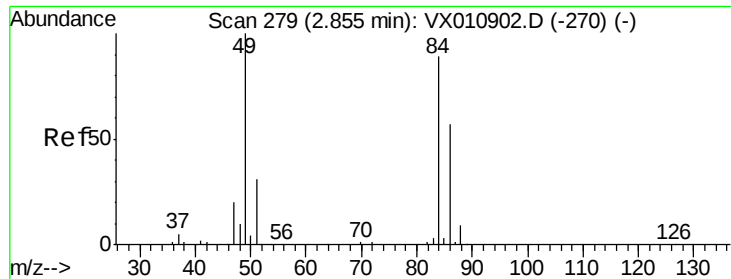
400

200

0

Time--> 2.55 2.60

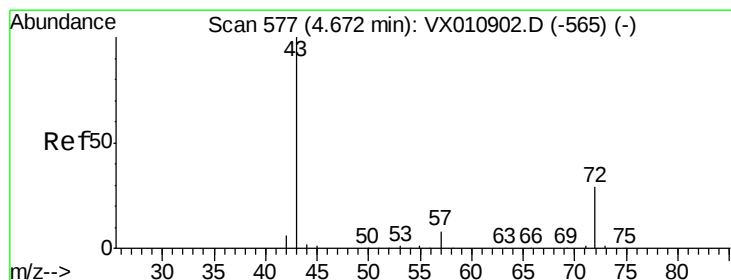
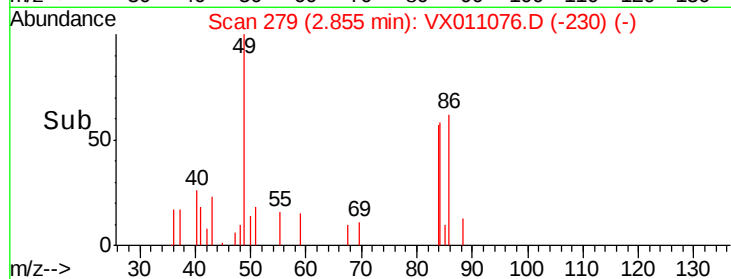
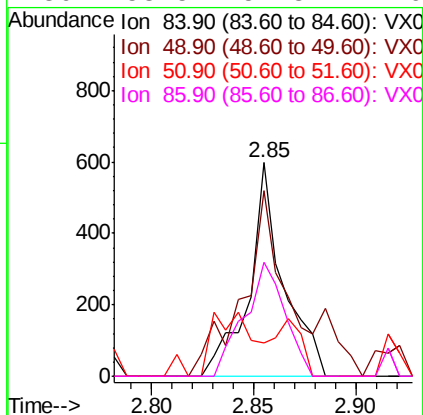
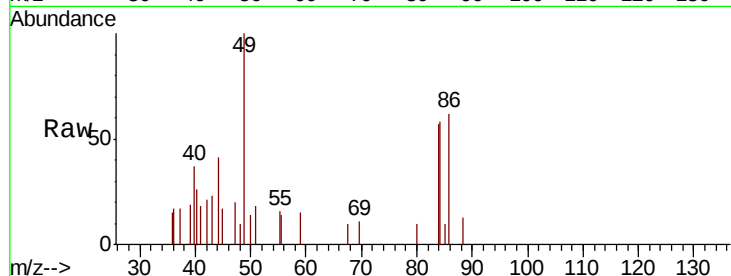




#20
Methvlene Chloride
Concen: 0.339 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

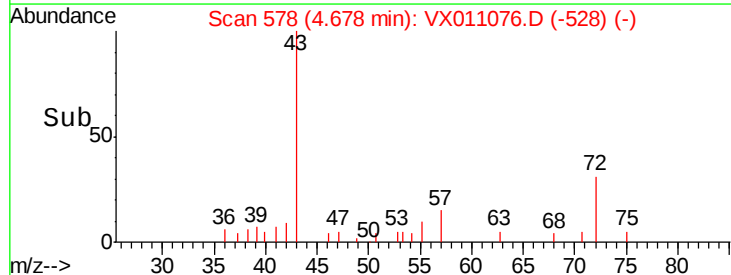
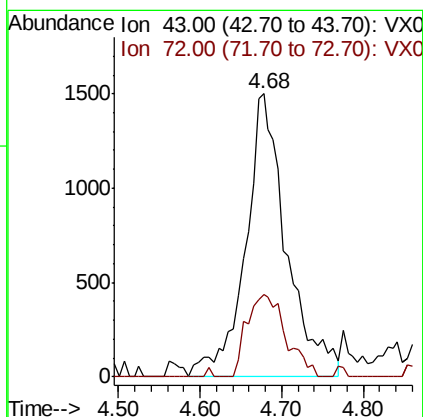
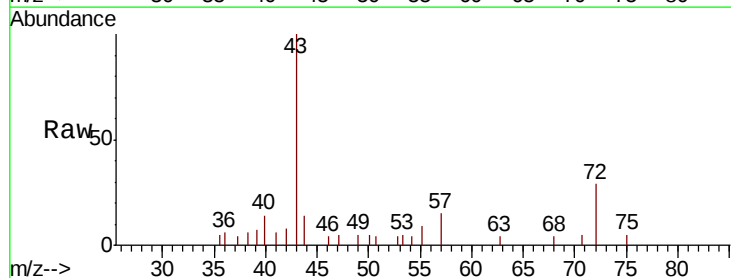
Instrument :
MSVOA_X
ClientSampled :
A1014

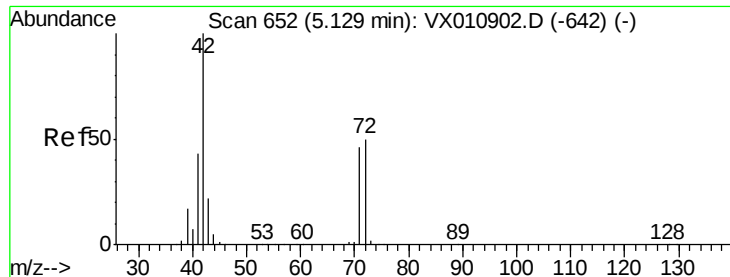
Tot Ion: 84 Resp: 705
Ion Ratio Lower Upper
84 100
49 87.0 89.9 134.9#
51 15.4 27.8 41.6#
86 53.5 51.8 77.6



#25
2-Butanone
Concen: 3.725 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

Tgt Ion: 43 Resp: 5250
Ion Ratio Lower Upper
43 100
72 28.9 23.0 34.6





#29

Tetrahydrofuran

Concen: 7.774 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

Instrument :

MSVOA_X

ClientSampled :

A1014

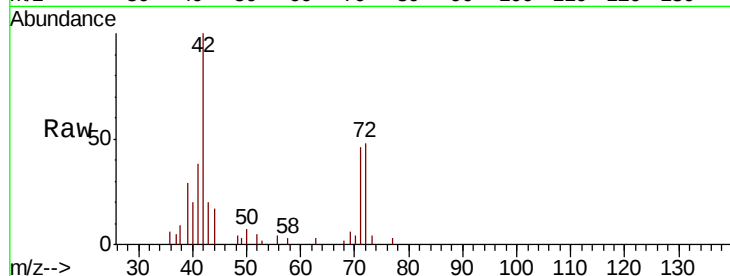
Tot Ion: 42 Resp: 6941

Ion Ratio Lower Upper

42 100

72 45.4 39.8 59.8

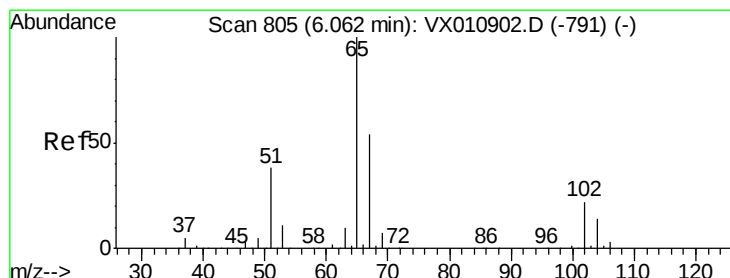
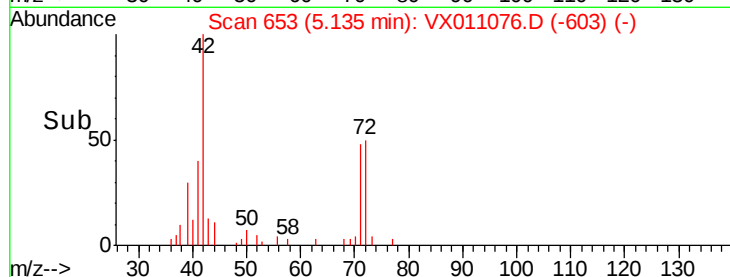
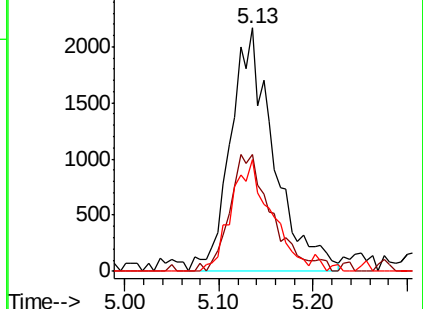
71 42.1 37.0 55.4



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: 50.350 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX011076.D

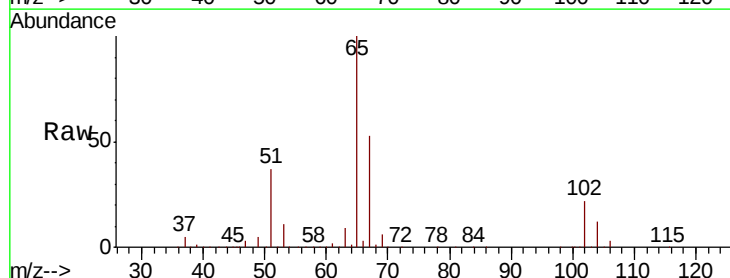
Acq: 25 Jul 2019 15:13

Tgt Ion: 65 Resp: 109462

Ion Ratio Lower Upper

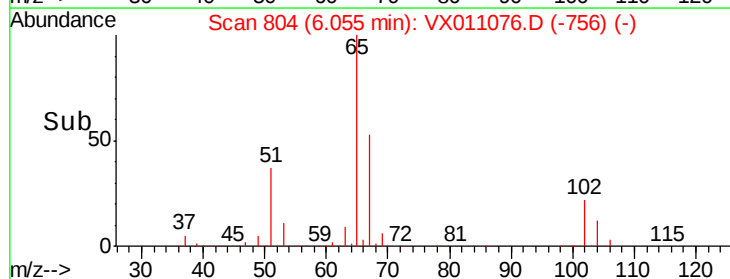
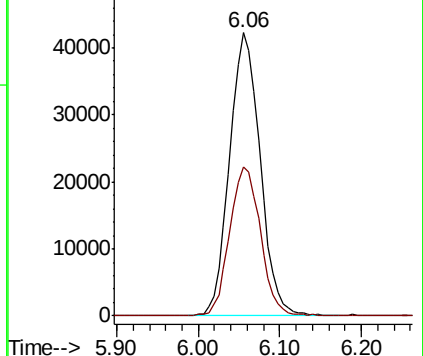
65 100

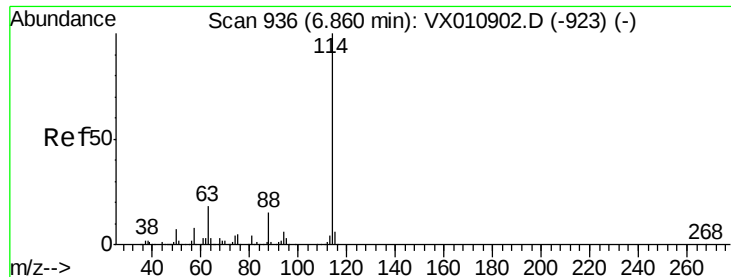
67 53.0 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

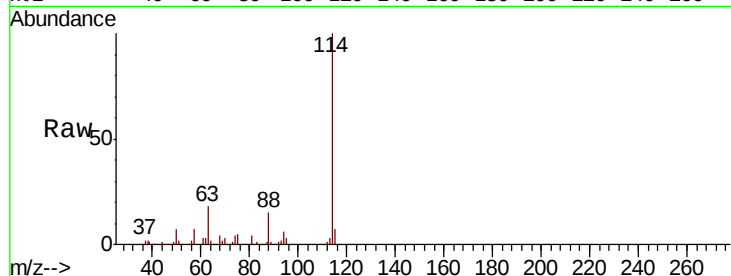




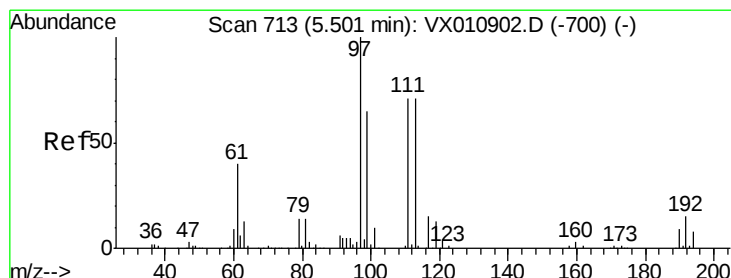
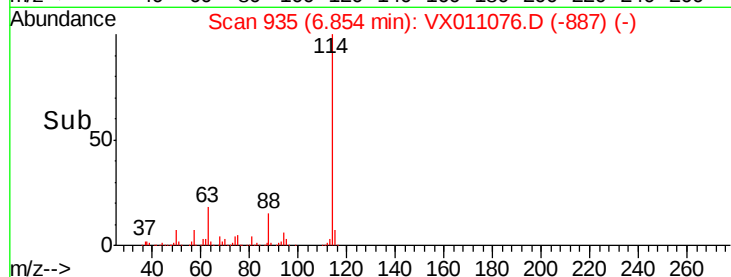
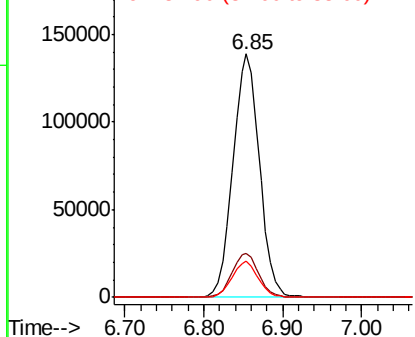
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. -0.01 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

Instrument :
MSVOA_X
ClientSampleId :
A1014

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.1	0.0	35.6
88	14.7	0.0	29.8

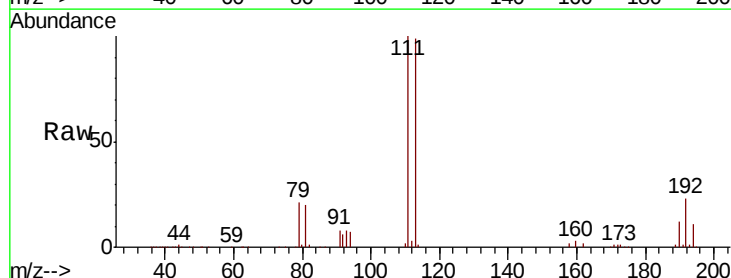


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

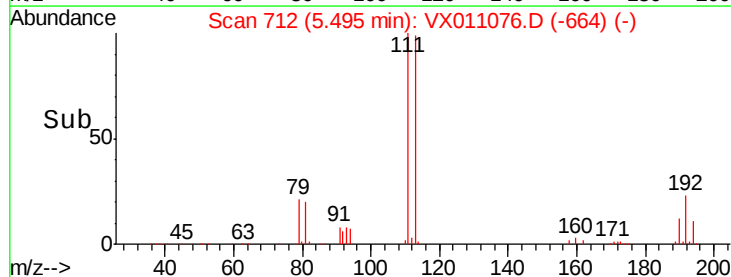
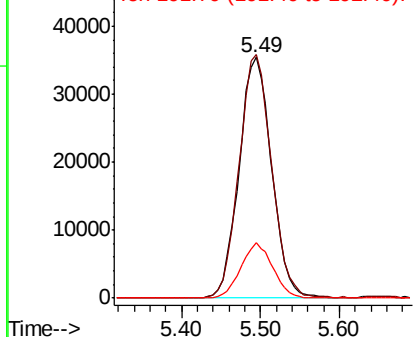


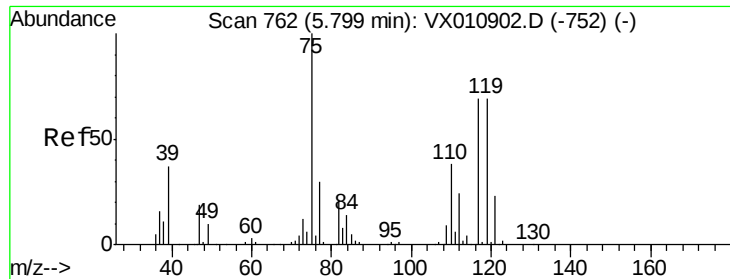
#35
Dibromofluoromethane
Concen: 49.664 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.01 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.6	82.3	123.5
192	22.6	17.4	26.2



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: 5.085 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

A1014

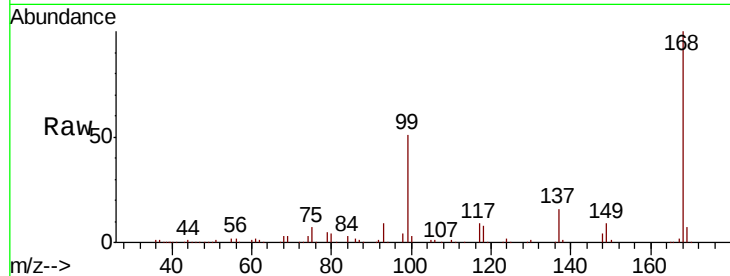
Tot Ion: 75 Resp: 13504

Ion Ratio Lower Upper

75 100

110 12.1 19.9 59.7#

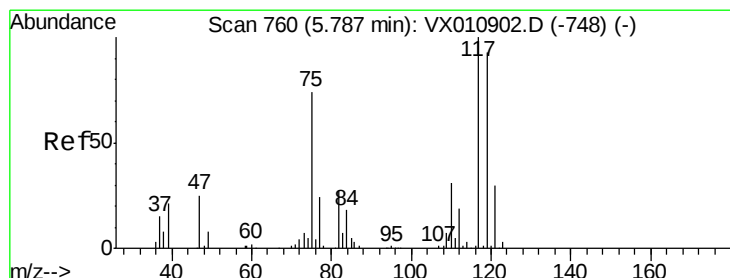
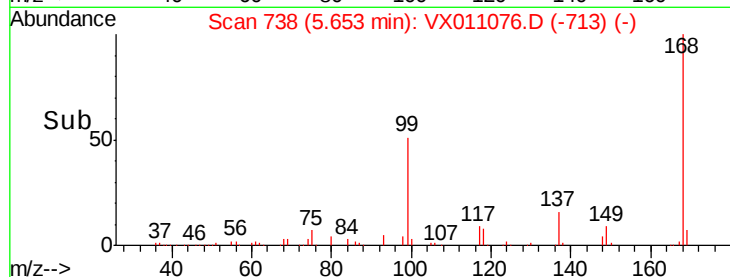
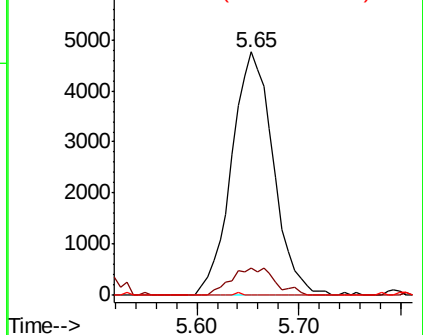
77 0.1 25.0 37.4#



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: 6.704 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

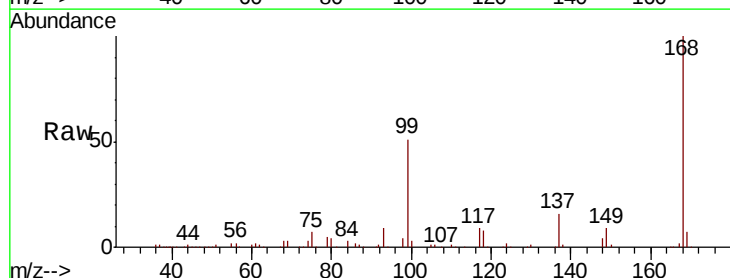
Tgt Ion: 117 Resp: 18552

Ion Ratio Lower Upper

117 100

119 4.6 74.2 111.2#

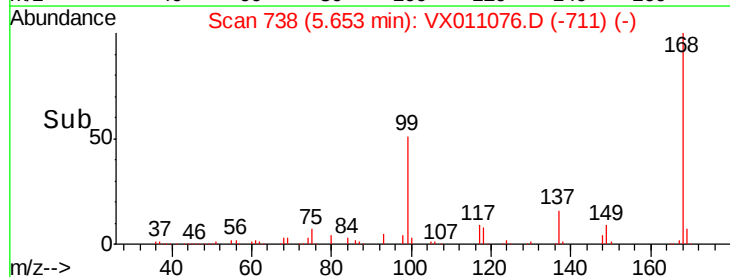
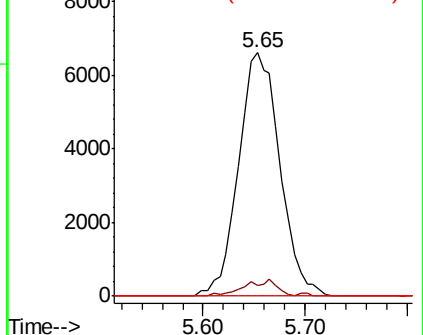
121 0.0 24.2 36.2#

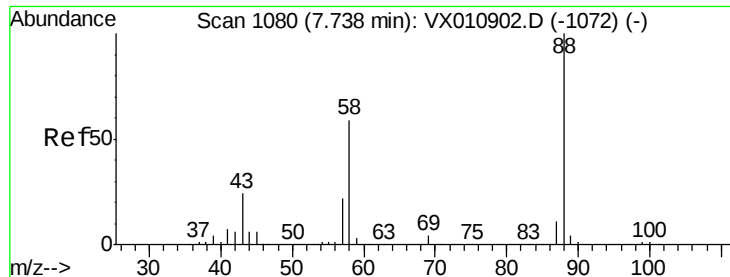


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

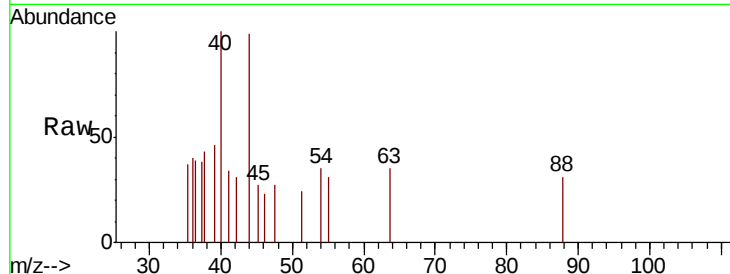




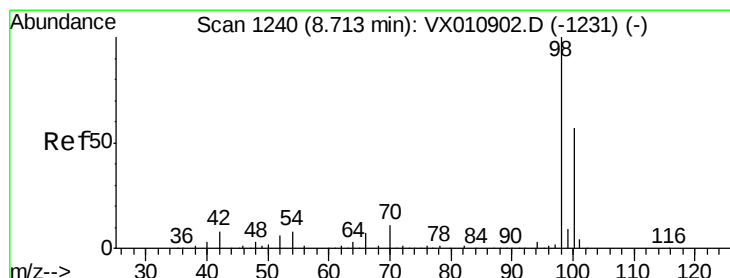
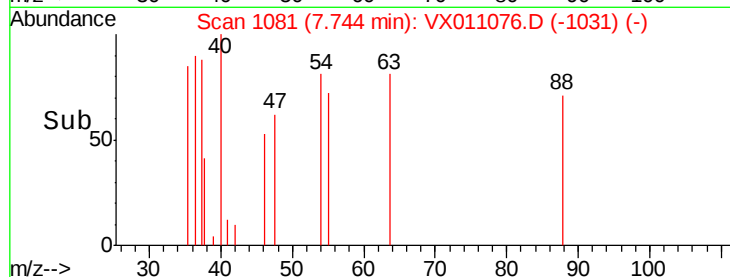
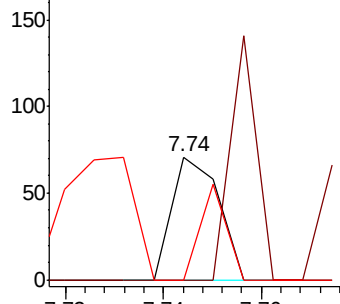
#49
1,4-Dioxane
Concen: 0.771 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

Instrument :
MSVOA_X
ClientSampled :
A1014

Tot Ion: 88 Resp: 47
Ion Ratio Lower Upper
88 100
43 110.6 22.9 34.3#
58 42.6 49.8 74.8#

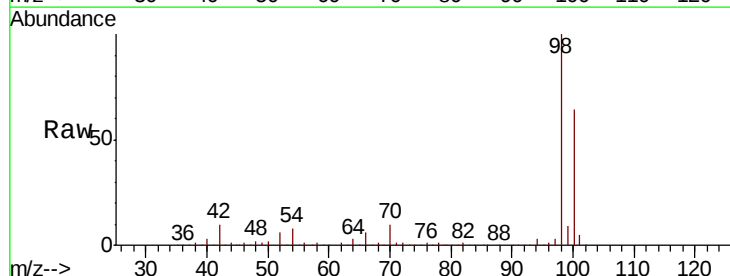


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

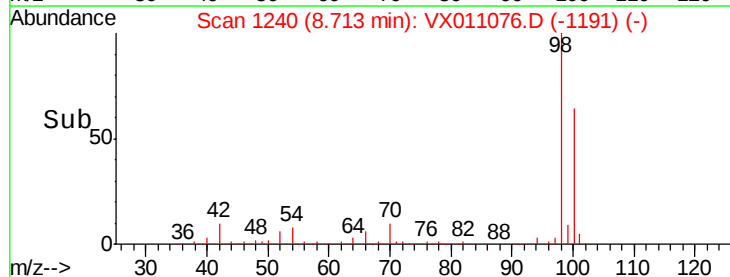
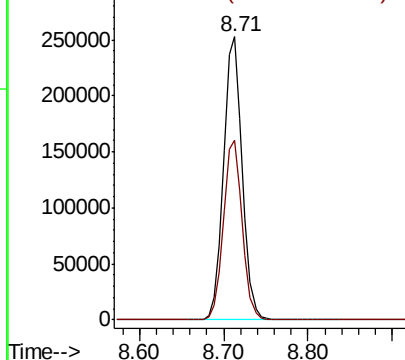


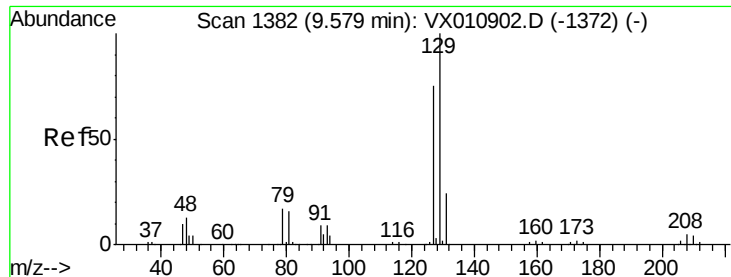
#50
Toluene-d8
Concen: 50.227 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

Tgt Ion: 98 Resp: 386609
Ion Ratio Lower Upper
98 100
100 63.9 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.565 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

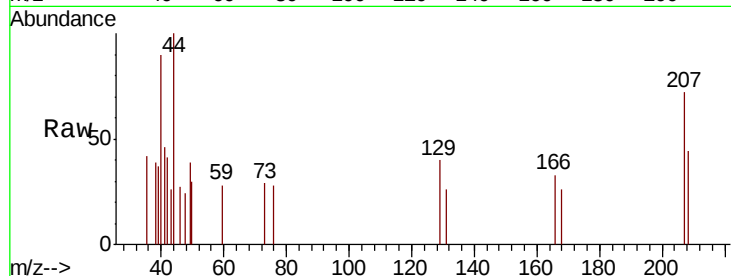
A1014

Tot Ion:129 Resp: 100

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#

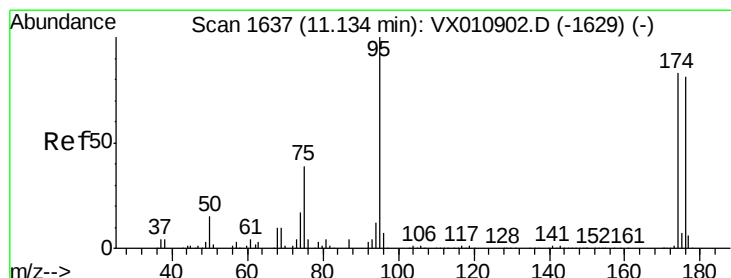
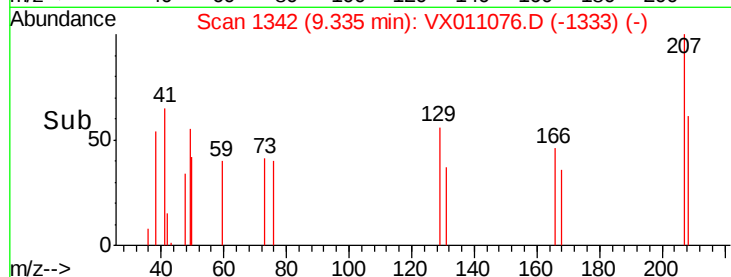


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

Time-->



#62

4-Bromofluorobenzene

Concen: 48.895 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

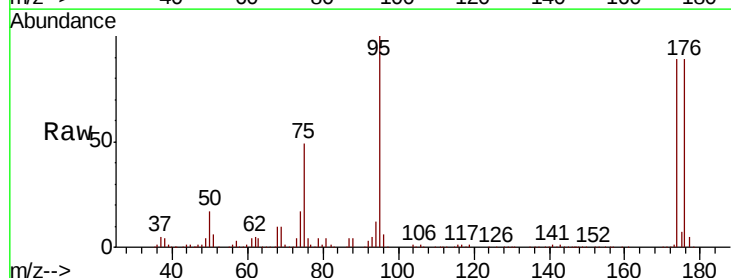
Tgt Ion: 95 Resp: 138336

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.6

176 87.8 0.0 173.8



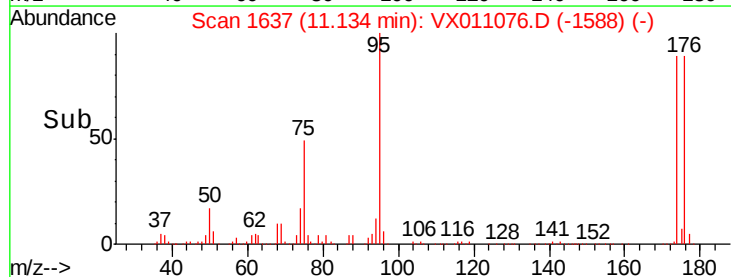
Abundance Ion 94.90 (94.60 to 95.60): VX0

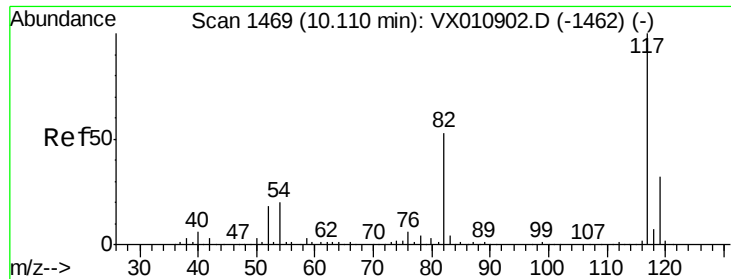
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

Time-->

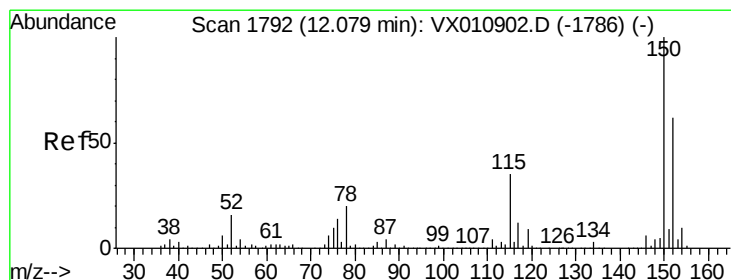
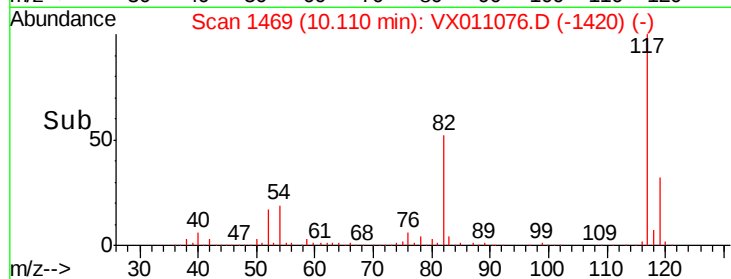
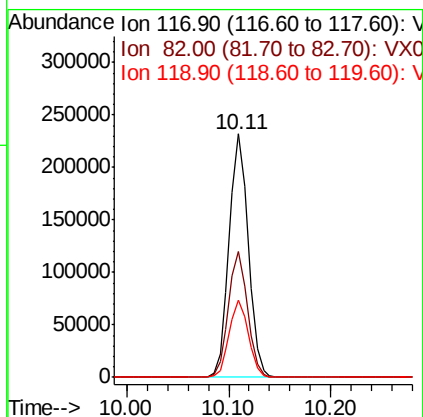
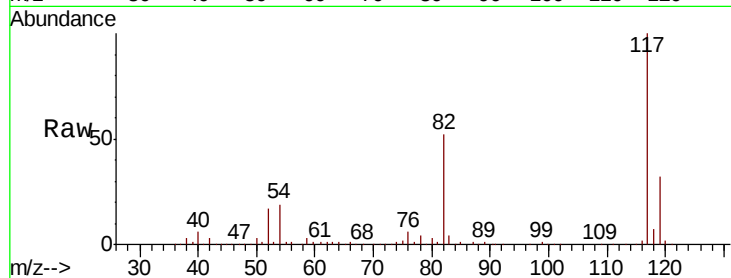




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

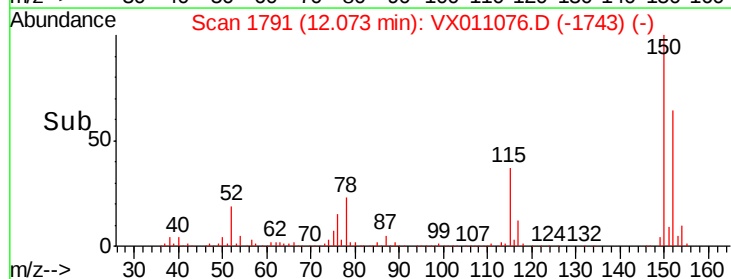
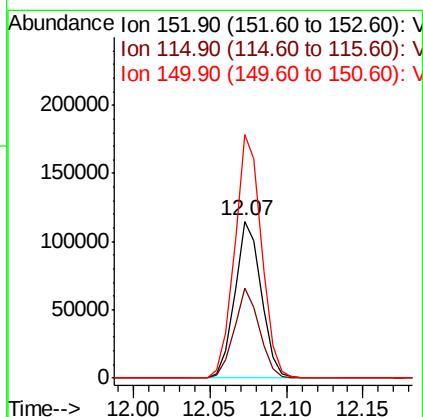
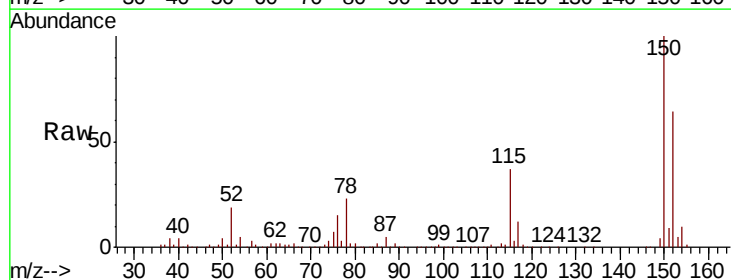
Instrument :
MSVOA_X
ClientSampleId :
A1014

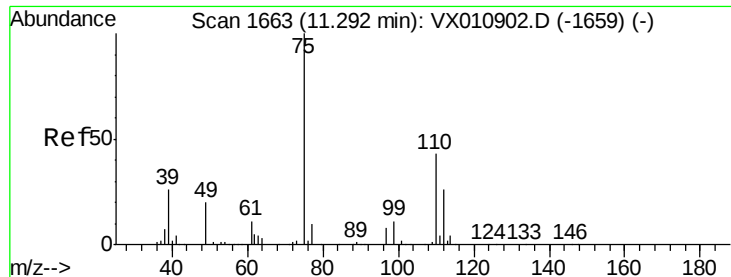
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.8	42.6	63.8
119	32.0	25.9	38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011076.D
Acq: 25 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	39.7	119.1
150	157.2	0.0	345.6





#76

1,2,3-Trichloropropane

Concen: 27.628 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

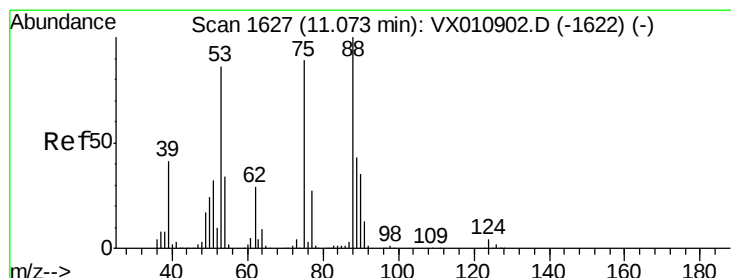
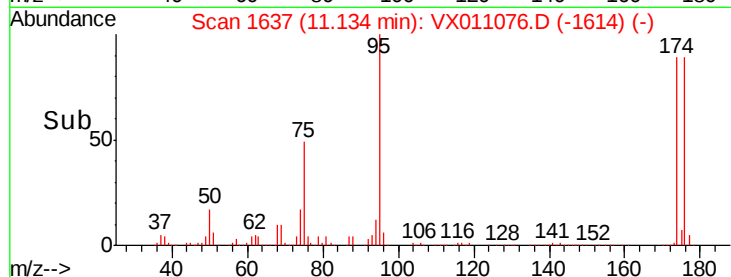
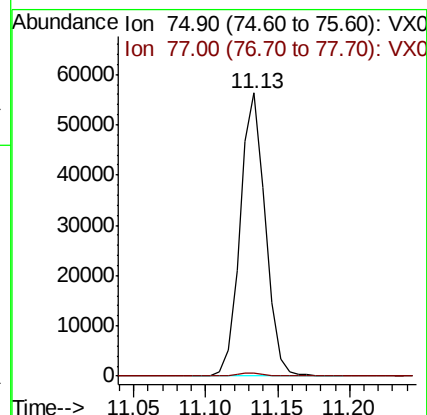
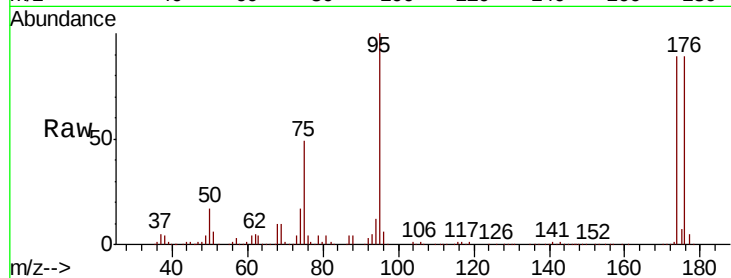
A1014

Tot Ion: 75 Resp: 68650

Ion Ratio Lower Upper

75 100

77 1.3 21.3 64.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.406 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011076.D

Acq: 25 Jul 2019 15:13

Tgt Ion: 75 Resp: 68650

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#

