

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011336.D
 Acq On : 05 Aug 2019 19:11
 Operator : JC/SP
 Sample : K4135-37
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:40:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	182781	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	267123	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	106635	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	89853	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
35) Dibromofluoromethane	5.49	113	80375	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
50) Toluene-d8	8.71	98	320927	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.13	95	100974	42.96	ug/l	0.00
Spiked Amount			Recovery	=	85.92%	

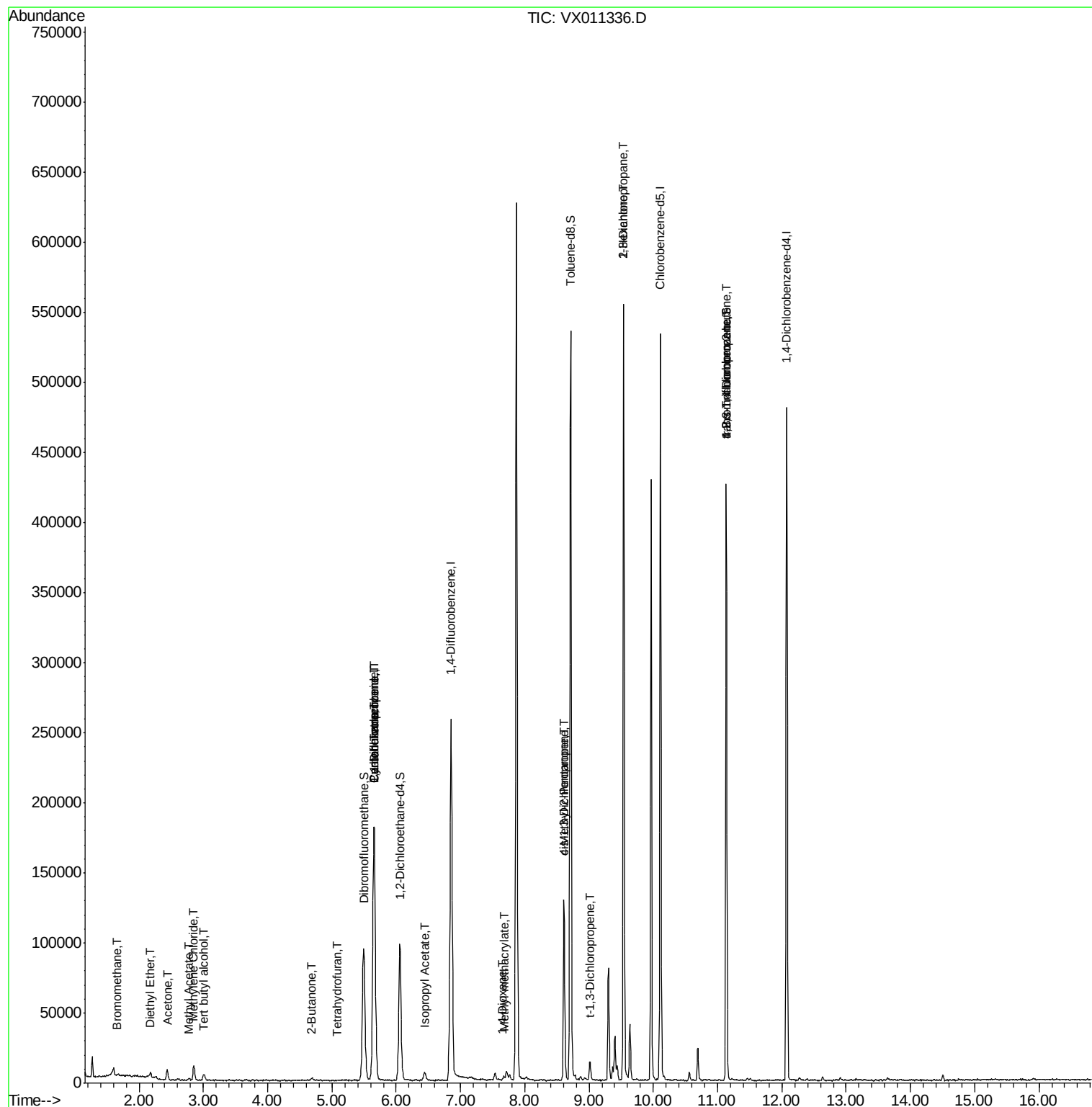
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	410	0.330	ug/l #	61
6) Chloroethane	1.73	64	484	Below Cal	#	62
8) Diethyl Ether	2.18	74	1070	0.966	ug/l	81
11) Tert butyl alcohol	3.01	59	2241	6.128	ug/l #	79
13) Acrolein	2.28	56	31	Below Cal	#	1
16) Acetone	2.43	43	7418	8.467	ug/l	99
18) Methyl Acetate	2.77	43	1193	0.596	ug/l #	88
20) Methylene Chloride	2.85	84	4997	2.604	ug/l	90
25) 2-Butanone	4.68	43	1052	0.844	ug/l #	59
29) Tetrahydrofuran	5.09	42	156	0.204	ug/l #	41
31) Cyclohexane	5.65	56	3802	1.604	ug/l #	22
36) 1,1-Dichloropropene	5.66	75	11883	5.095	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17222	7.340	ug/l #	16
43) Isopropyl Acetate	6.44	43	8407	2.248	ug/l	98
48) Methyl methacrylate	7.67	41	3688	2.095	ug/l #	10
49) 1,4-Dioxane	7.65	88	42	0.823	ug/l #	29
51) 4-Methyl-2-Pentanone	8.61	43	39987	16.566	ug/l #	49
53) t-1,3-Dichloropropene	9.02	75	71	2.864	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	20354	7.822	ug/l #	68
57) 1,3-Dichloropropane	9.54	76	4817	1.610	ug/l #	45
59) 2-Hexanone	9.54	43	62116	33.224	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	50238	25.870	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	50238	67.352	ug/l #	10

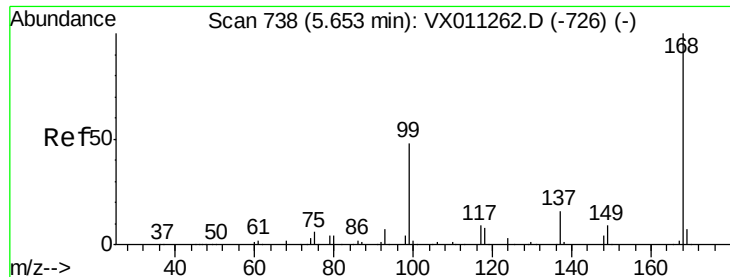
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

Instrument :

MSVOA_X

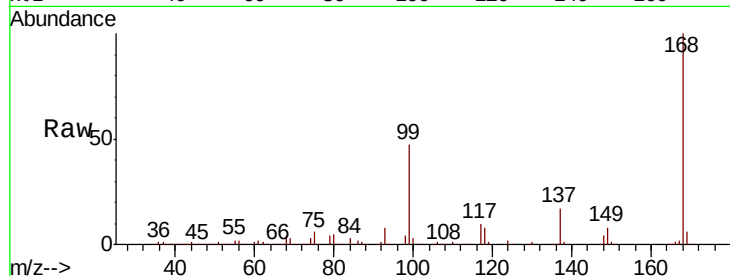
ClientSampleId :

Tot Ion:168 Resp: 182781

Ion Ratio Lower Upper

168 100

99 47.1 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

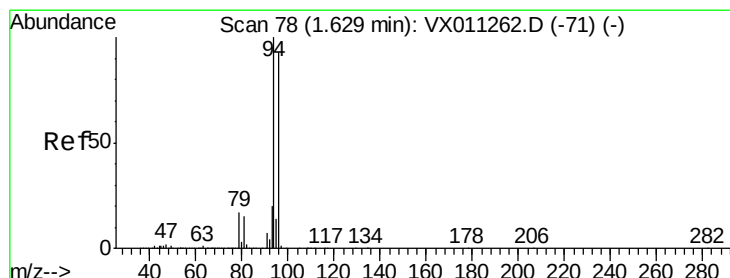
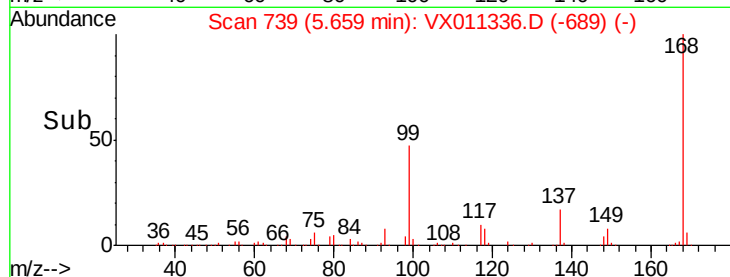
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.330 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX011336.D

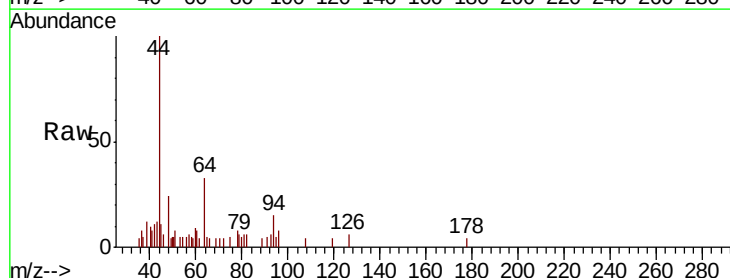
Acq: 05 Aug 2019 19:11

Tgt Ion: 94 Resp: 410

Ion Ratio Lower Upper

94 100

96 55.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

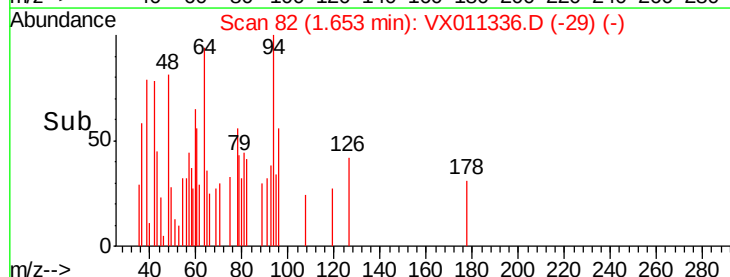
150

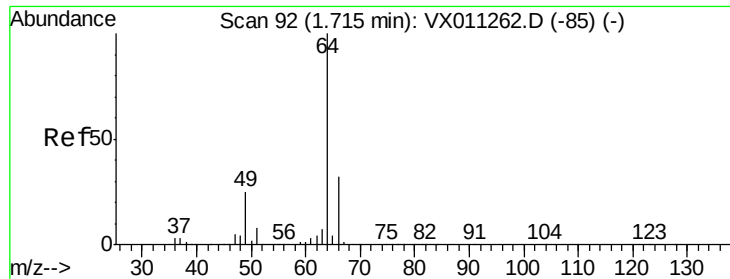
100

50

0

Time--> 1.60 1.65





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

Instrument :

MSVOA_X

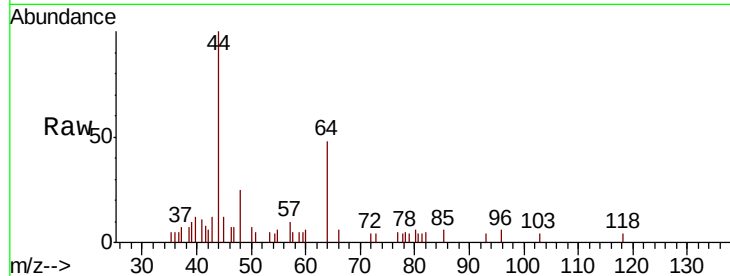
ClientSampleId :

Tot Ion: 64 Resp: 484

Ion Ratio Lower Upper

64 100

66 10.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

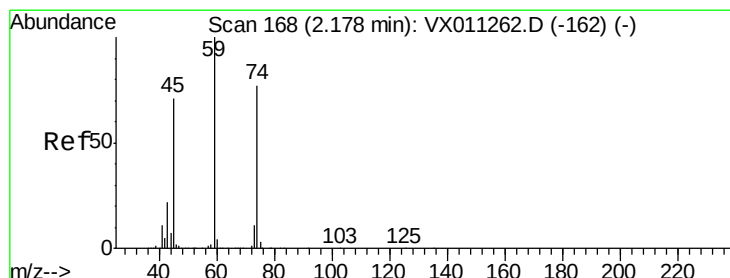
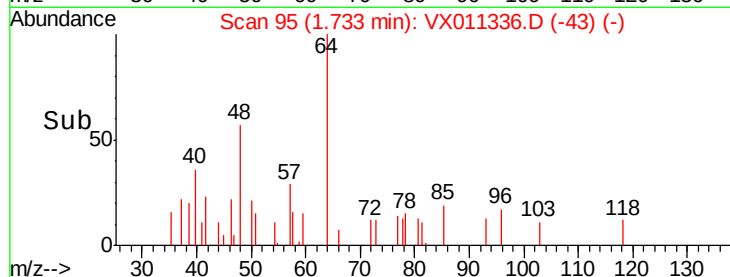
600

400

200

0

Time-->



#8

Diethyl Ether

Concen: 0.966 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011336.D

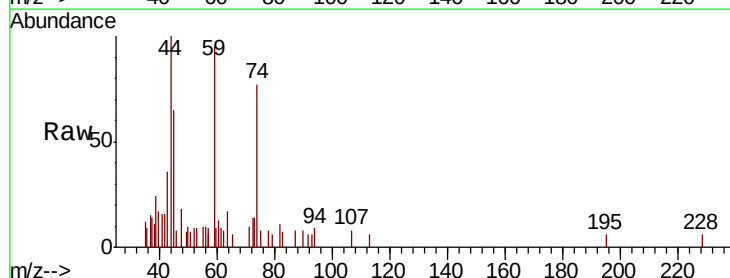
Acq: 05 Aug 2019 19:11

Tgt Ion: 74 Resp: 1070

Ion Ratio Lower Upper

74 100

45 110.3 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

800

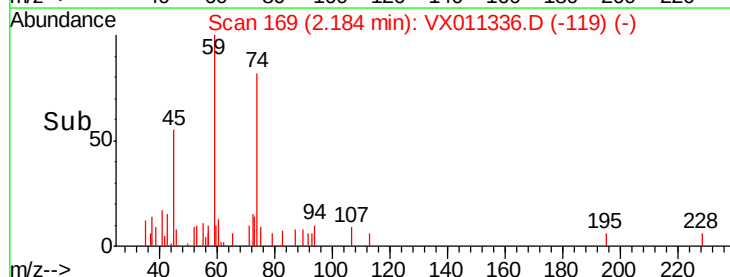
600

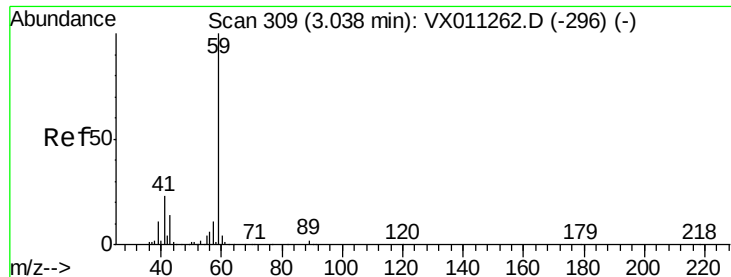
400

200

0

Time-->

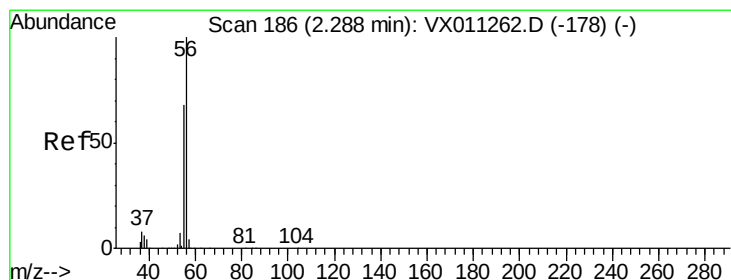
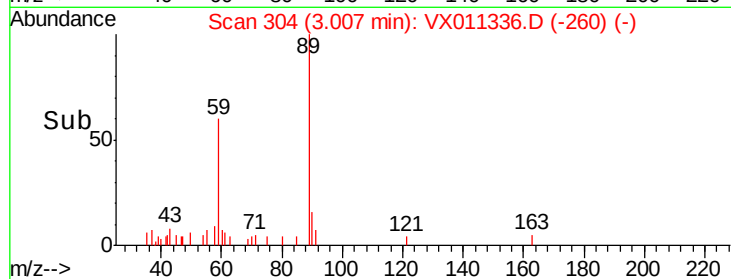
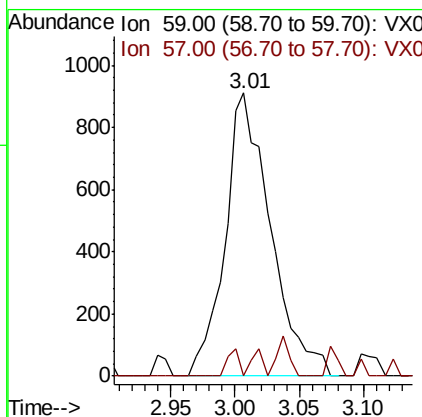
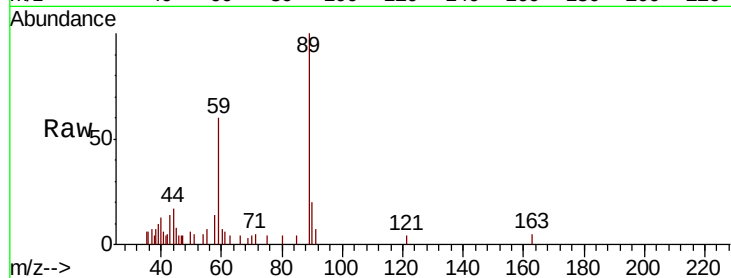




#11
Tert butyl alcohol
Concen: 6.128 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011336.D
Acq: 05 Aug 2019 19:11

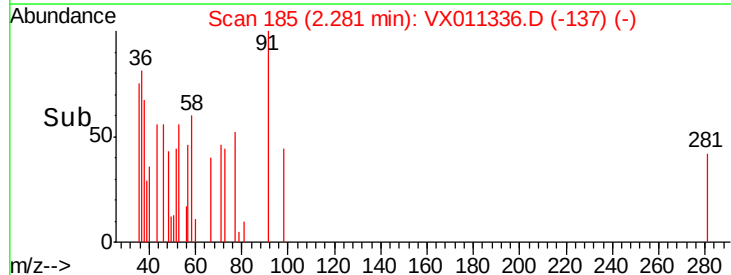
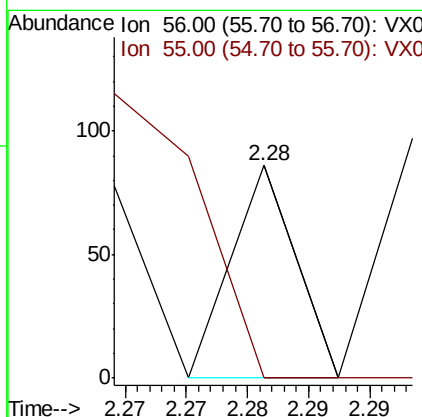
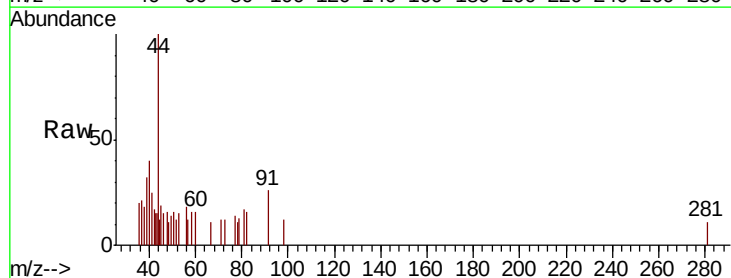
Instrument :
MSVOA_X
ClientSampleId :

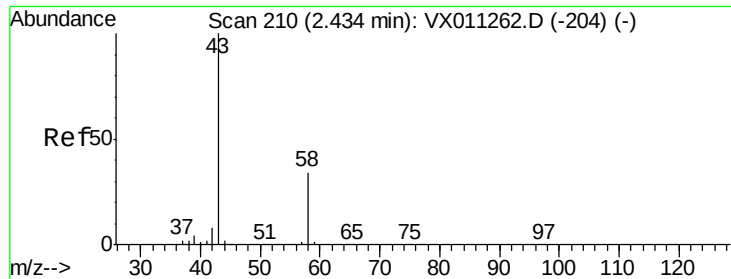
Tot Ion: 59 Resp: 2241
Ion Ratio Lower Upper
59 100
57 2.5 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX011336.D
Acq: 05 Aug 2019 19:11

Tgt Ion: 56 Resp: 31
Ion Ratio Lower Upper
56 100
55 412.9 56.0 84.0#





#16

Acetone

Concen: 8.467 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

Instrument :

MSVOA_X

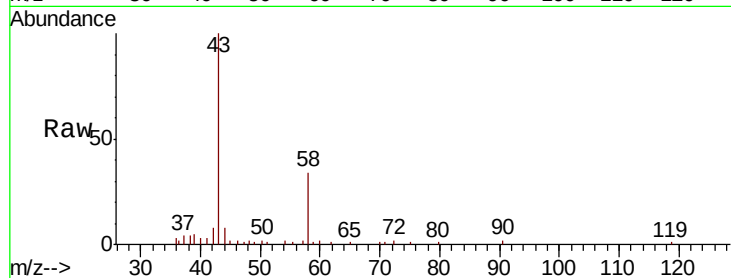
ClientSampled :

Tot Ion: 43 Resp: 7418

Ion Ratio Lower Upper

43 100

58 33.7 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

5000

4000

3000

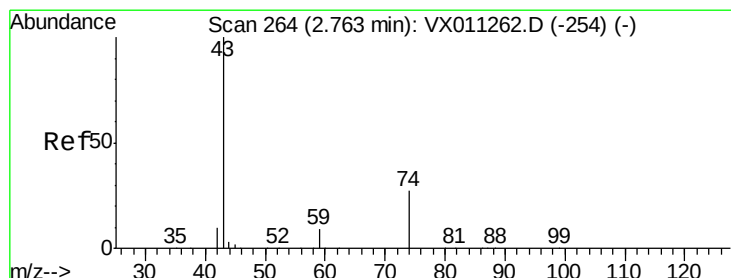
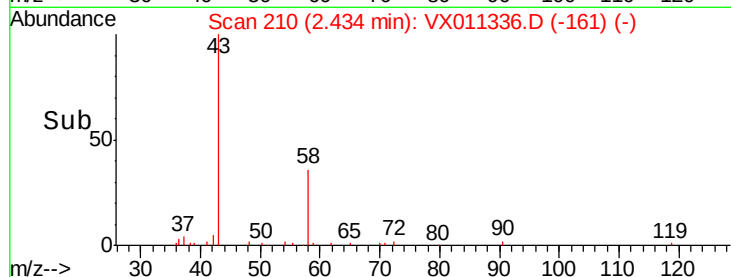
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.596 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011336.D

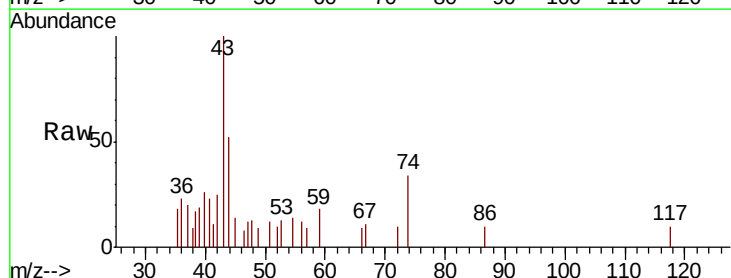
Acq: 05 Aug 2019 19:11

Tgt Ion: 43 Resp: 1193

Ion Ratio Lower Upper

43 100

74 32.3 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.77

600

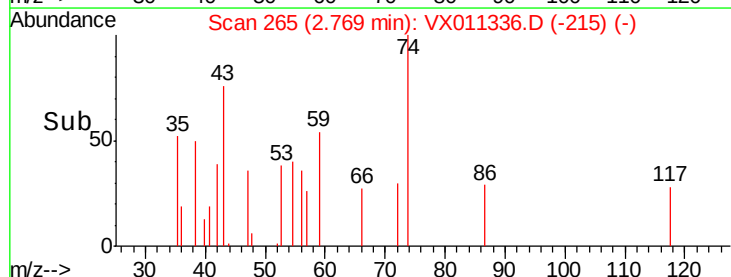
400

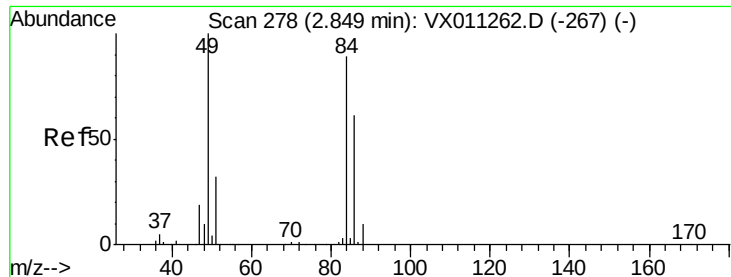
200

0

Time-->

2.70 2.75 2.80 2.85

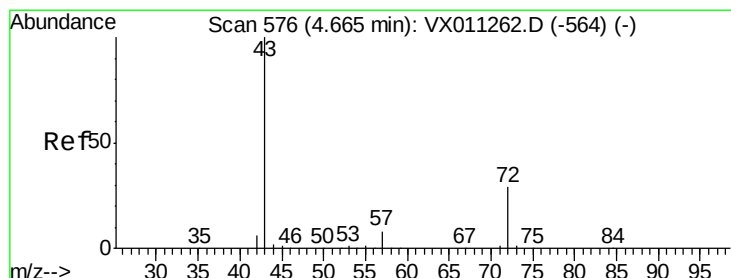
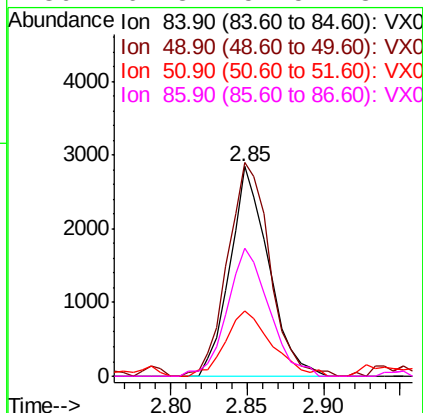
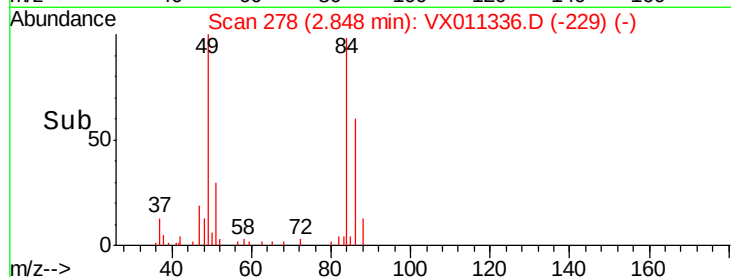
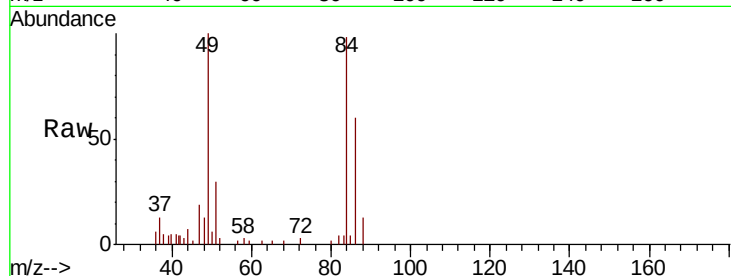




#20
Methvlene Chloride
Concen: 2.604 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011336.D
Acq: 05 Aug 2019 19:11

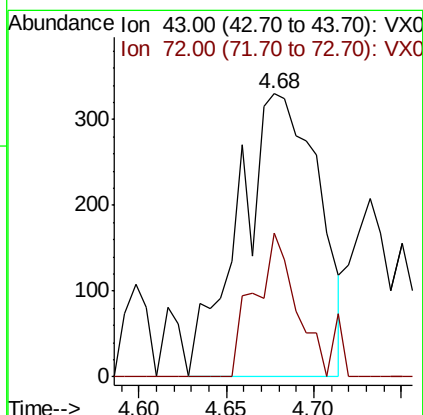
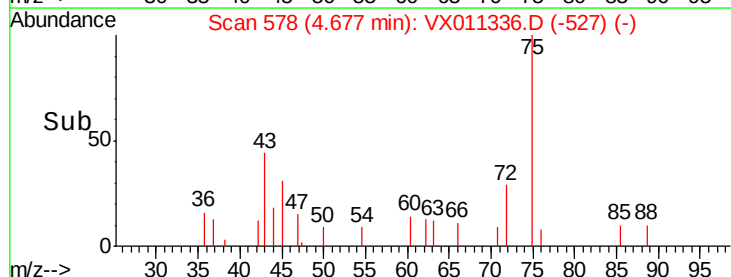
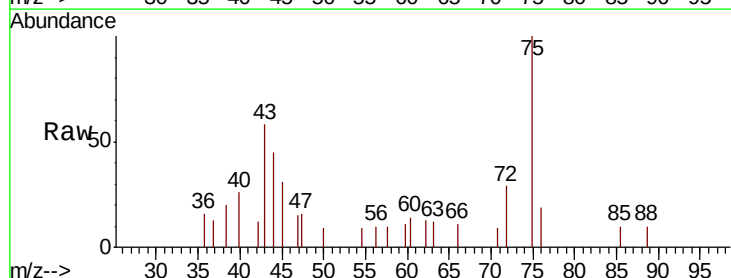
Instrument :
MSVOA_X
ClientSampleId :

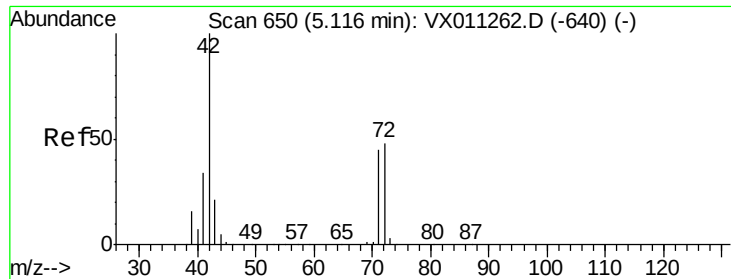
Tot Ion:	84	Resp:	4997
Ion	Ratio	Lower	Upper
84	100		
49	100.0	89.3	133.9
51	31.1	28.3	42.5
86	61.3	54.5	81.7



#25
2-Butanone
Concen: 0.844 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX011336.D
Acq: 05 Aug 2019 19:11

Tgt Ion:	43	Resp:	1052
Ion	Ratio	Lower	Upper
43	100		
72	50.9	23.2	34.8#





#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 5.09 min Scan# 646

Delta R.T. -0.02 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampled :

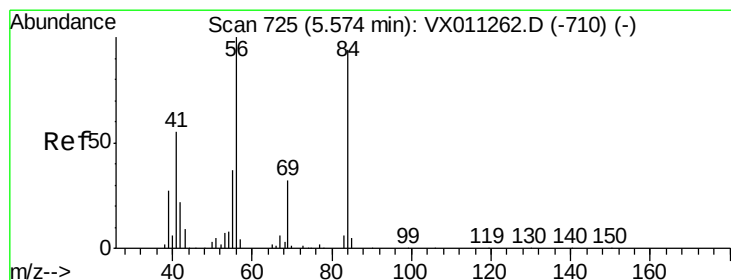
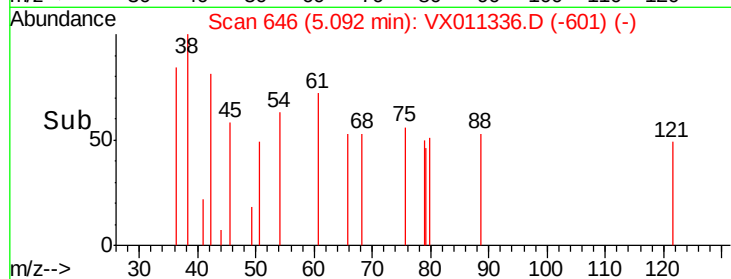
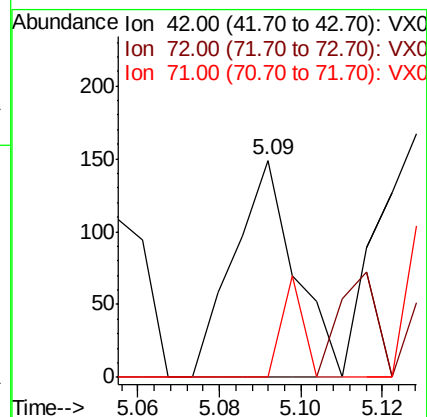
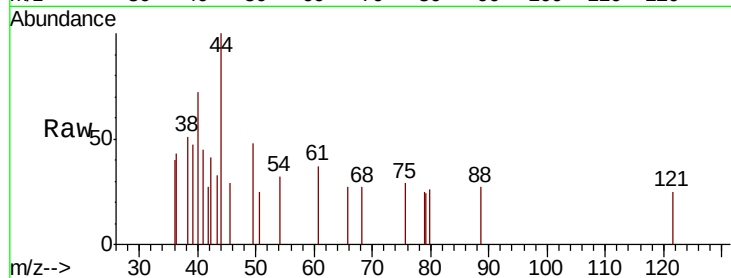
Tot Ion: 42 Resp: 156

Ion Ratio Lower Upper

42 100

72 0.0 39.9 59.9#

71 16.7 36.9 55.3#



#31

Cyclohexane

Concen: 1.604 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

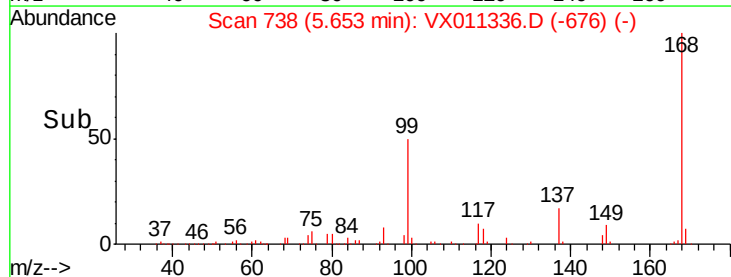
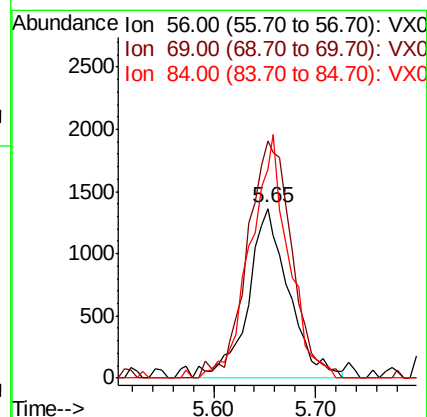
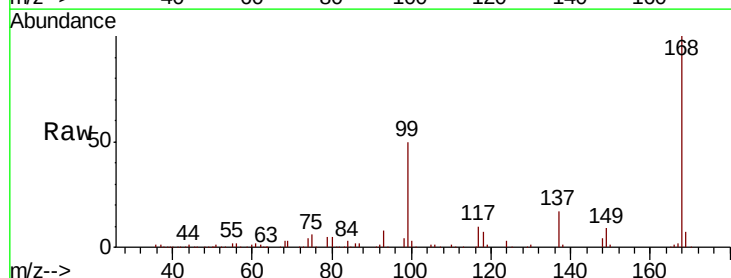
Tgt Ion: 56 Resp: 3802

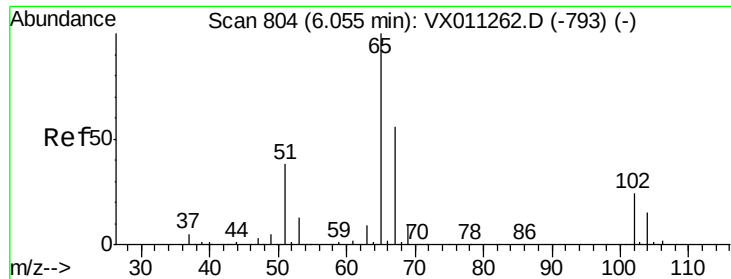
Ion Ratio Lower Upper

56 100

69 145.0 25.5 38.3#

84 127.9 75.0 112.4#

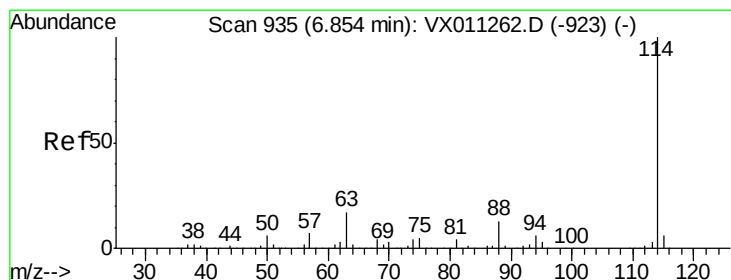
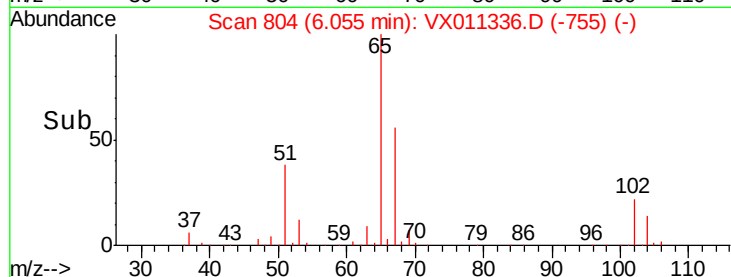
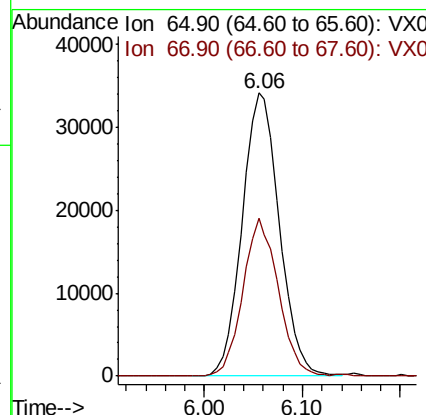
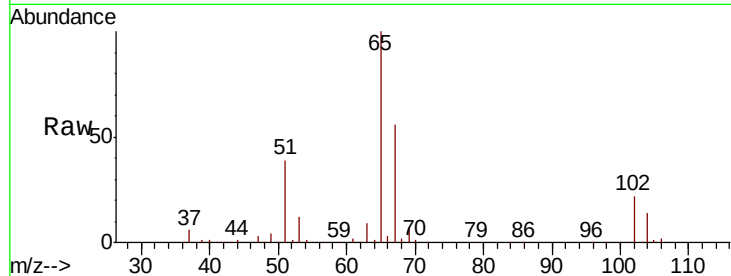




#33
 1,2-Dichloroethane-d4
 Concen: 48.815 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. -0.00 min
 Lab File: VX011336.D
 Acq: 05 Aug 2019 19:11

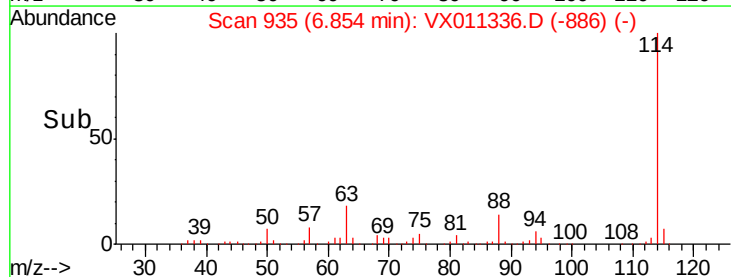
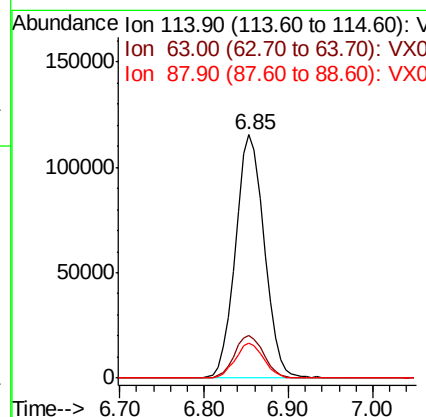
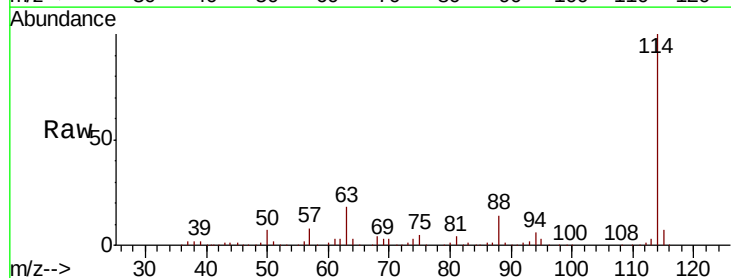
Instrument :
 MSVOA_X
 ClientSampleId :

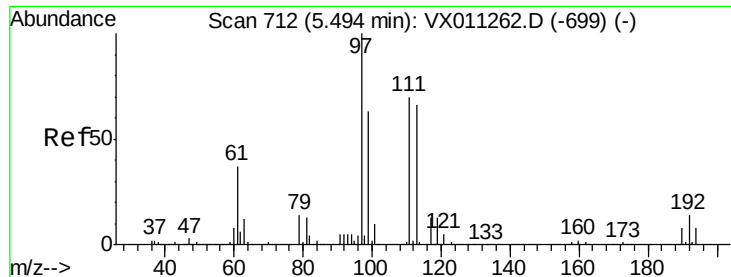
Tot Ion: 65 Resp: 89853
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011336.D
 Acq: 05 Aug 2019 19:11

Tgt Ion: 114 Resp: 267123
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 34.0
 88 14.4 0.0 26.4





#35

Dibromofluoromethane

Concen: 46.087 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

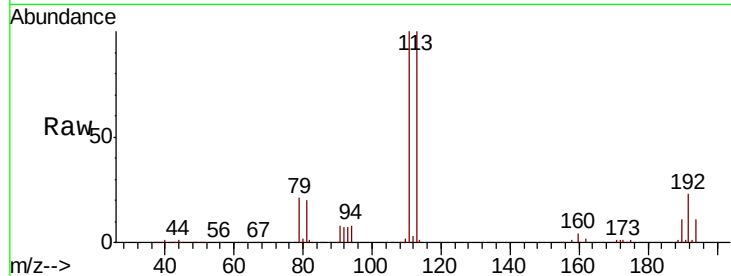
Tot Ion:113 Resp: 80375

Ion Ratio Lower Upper

113 100

111 100.6 81.9 122.9

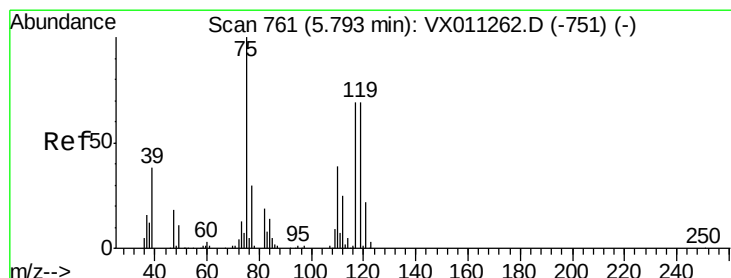
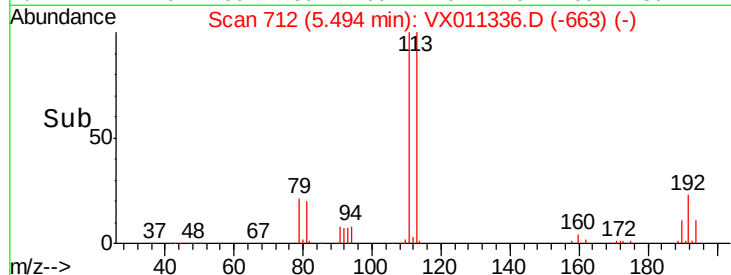
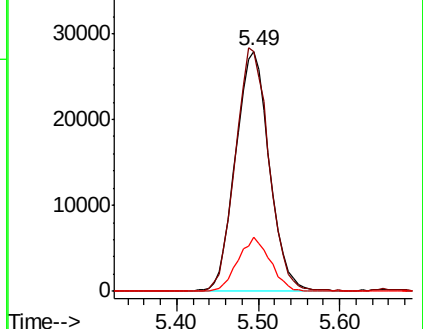
192 21.5 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.095 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

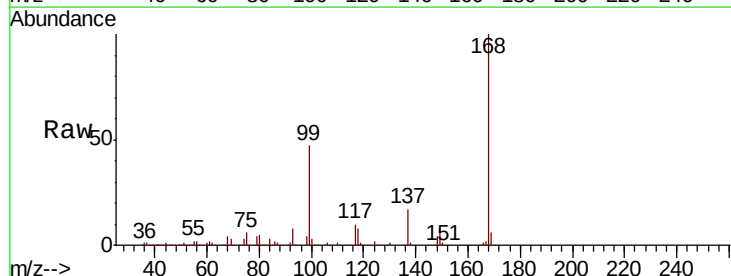
Tgt Ion: 75 Resp: 11883

Ion Ratio Lower Upper

75 100

110 11.8 20.0 59.9#

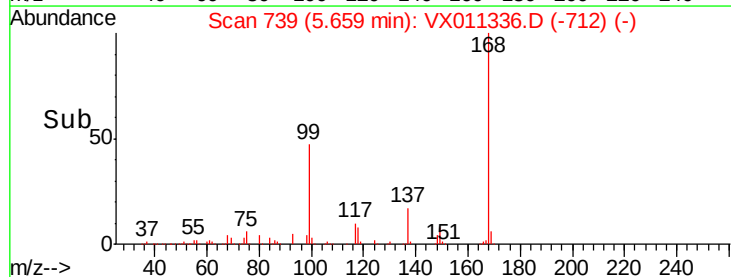
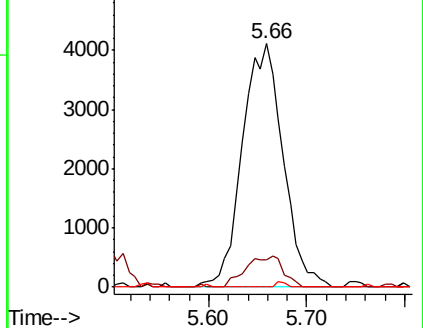
77 0.5 24.8 37.2#

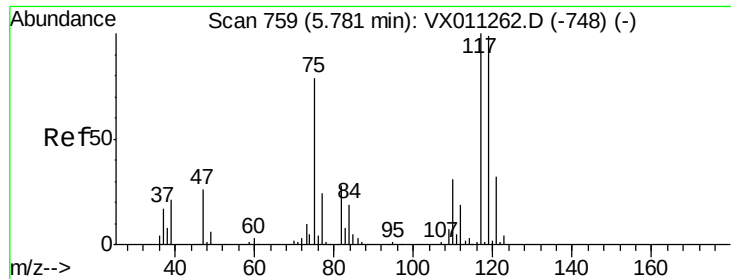


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.340 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

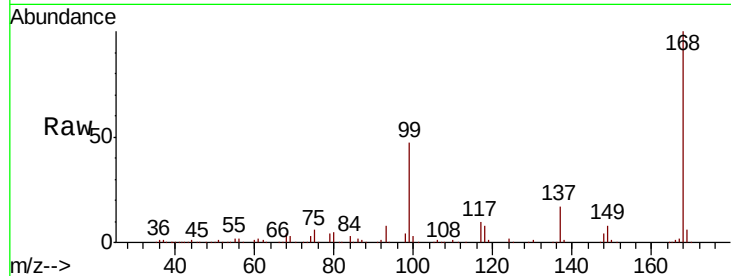
Tot Ion:117 Resp: 17222

Ion Ratio Lower Upper

117 100

119 7.3 79.0 118.4#

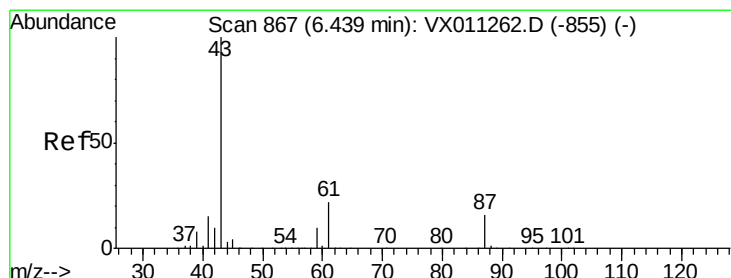
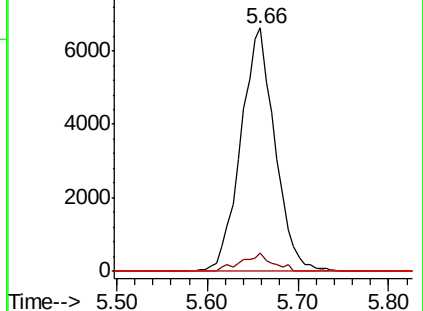
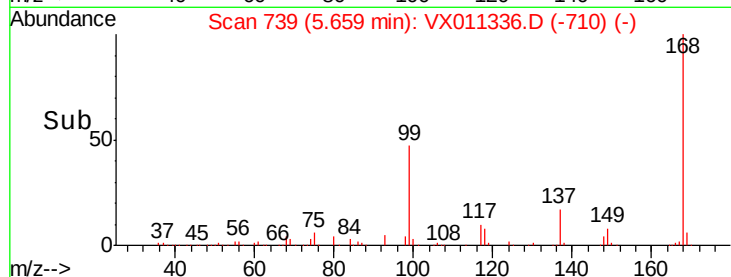
121 0.0 25.9 38.9#



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



#43

Isopropyl Acetate

Concen: 2.248 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

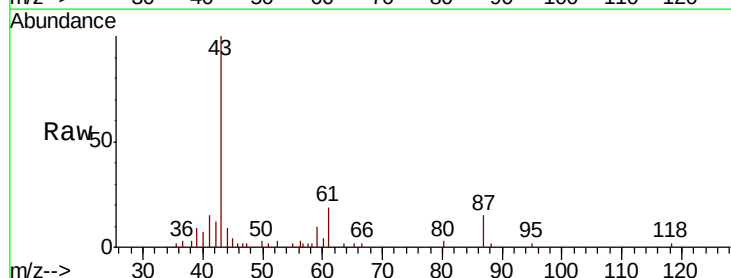
Tgt Ion: 43 Resp: 8407

Ion Ratio Lower Upper

43 100

61 21.3 16.5 24.7

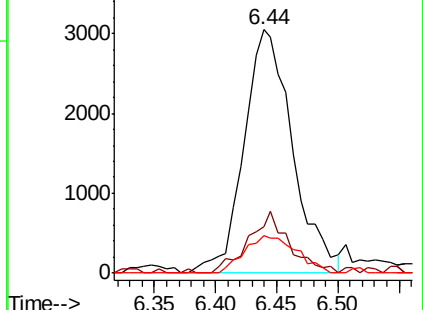
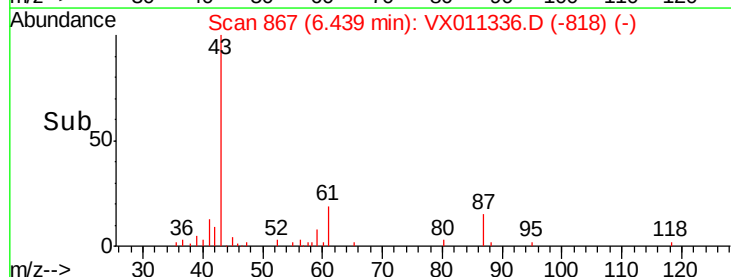
87 16.4 12.1 18.1

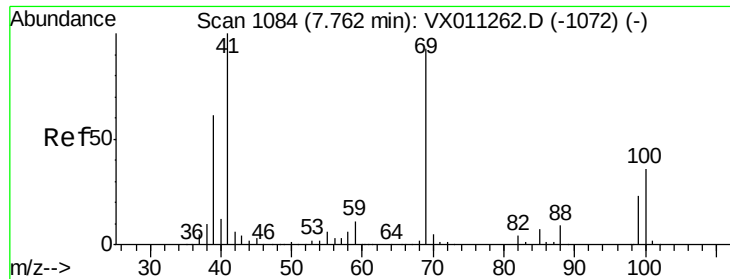


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

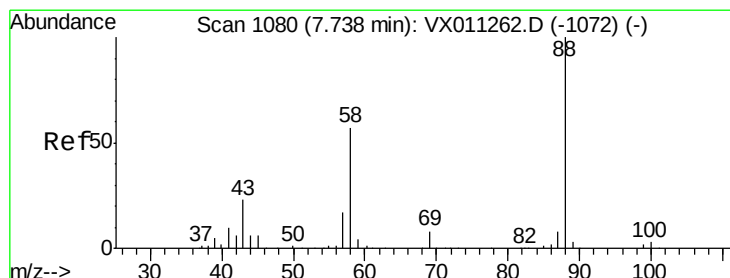
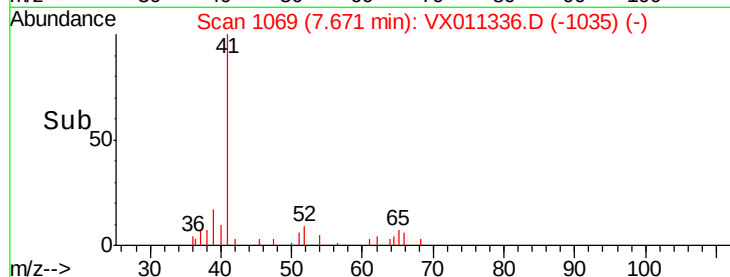
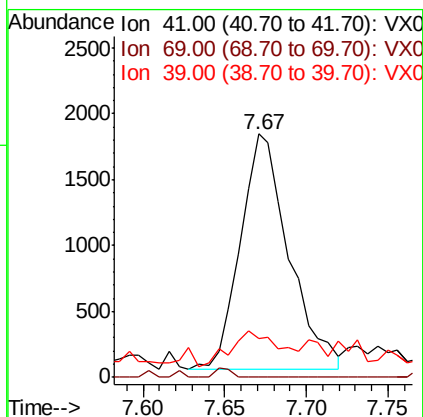
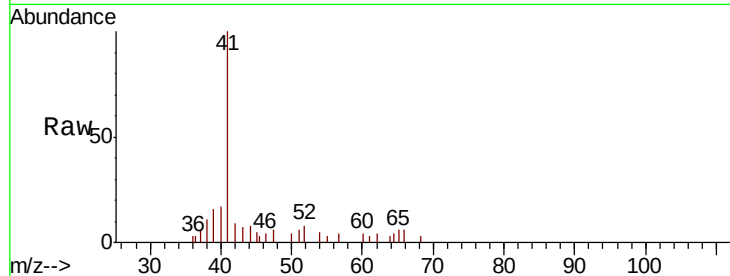




#48
Methvl methacrylate
Concen: 2.095 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011336.D
Acq: 05 Aug 2019 19:11

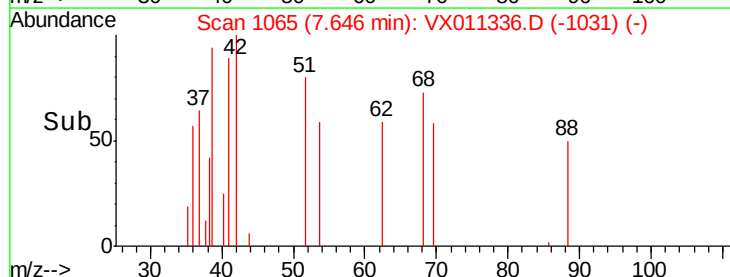
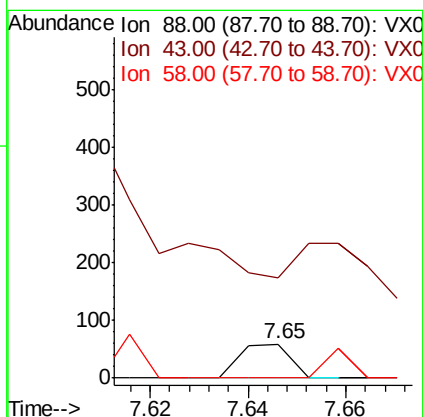
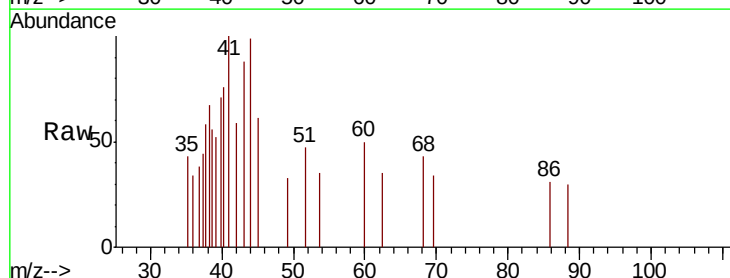
Instrument :
MSVOA_X
ClientSampled :

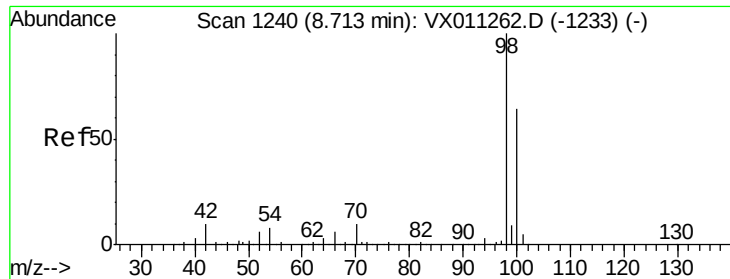
Tot Ion: 41 Resp: 3688
Ion Ratio Lower Upper
41 100
69 0.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 0.823 ug/l
RT: 7.65 min Scan# 1065
Delta R.T. -0.09 min
Lab File: VX011336.D
Acq: 05 Aug 2019 19:11

Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 0.0 47.8 71.8#





#50

Toluene-d8

Concen: 48.751 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

Instrument :

MSVOA_X

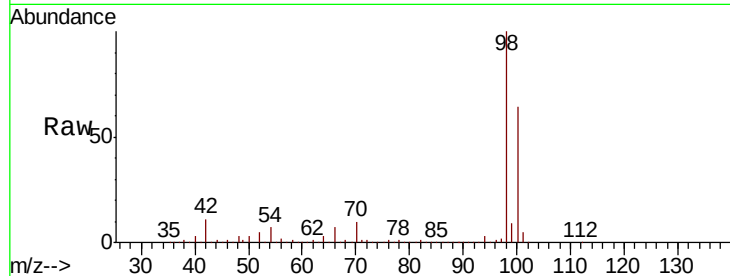
ClientSampleId :

Tot Ion: 98 Resp: 320927

Ion Ratio Lower Upper

98 100

100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

250000

200000

150000

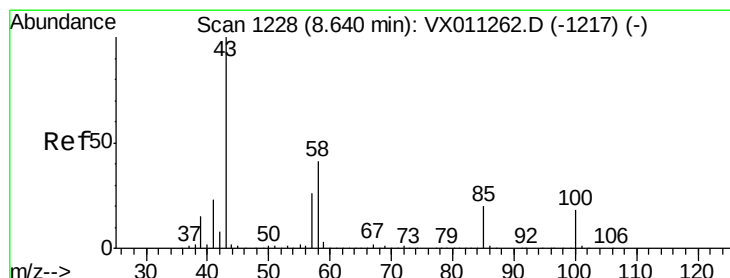
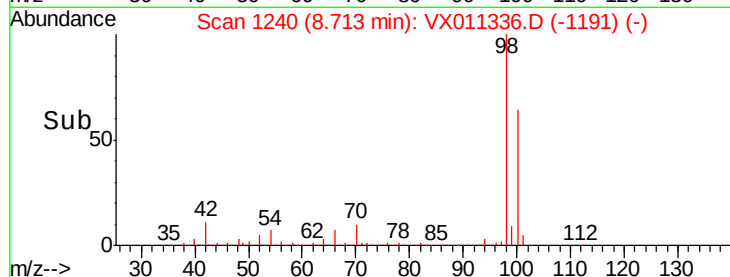
100000

50000

0

8.60 8.65 8.70 8.75 8.80

Time-->



#51

4-Methyl-2-Pentanone

Concen: 16.566 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011336.D

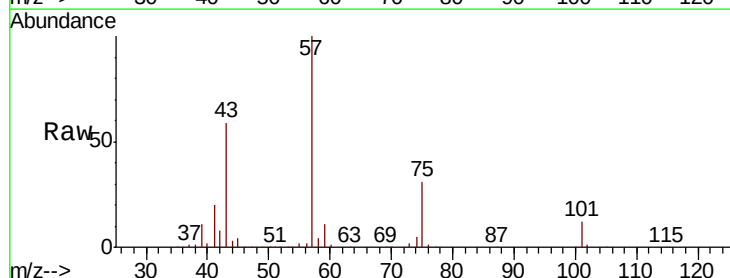
Acq: 05 Aug 2019 19:11

Tgt Ion: 43 Resp: 39987

Ion Ratio Lower Upper

43 100

58 8.5 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

30000

25000

20000

15000

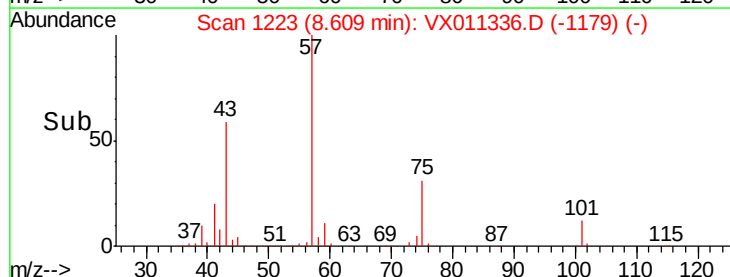
10000

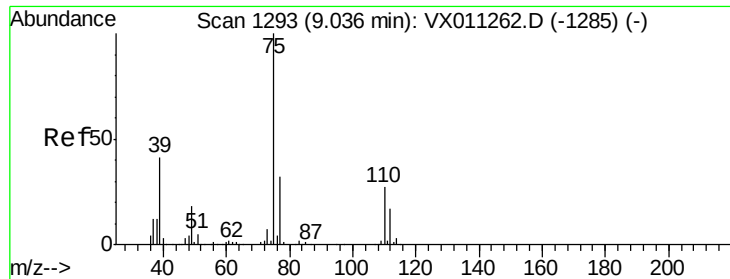
5000

0

8.55 8.60 8.65 8.70

Time-->

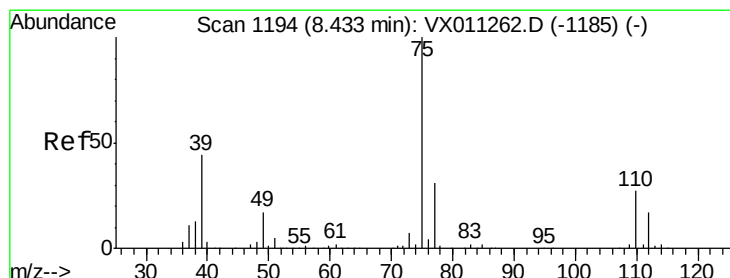
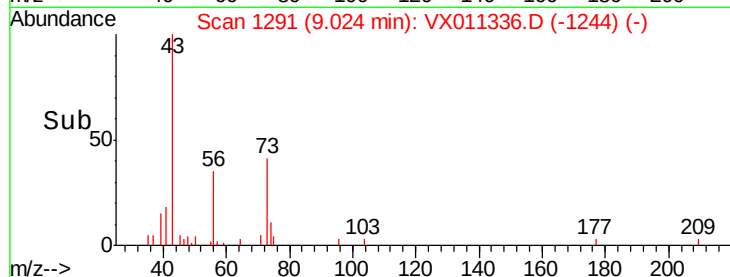
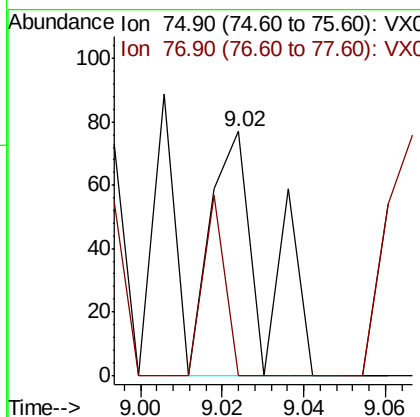
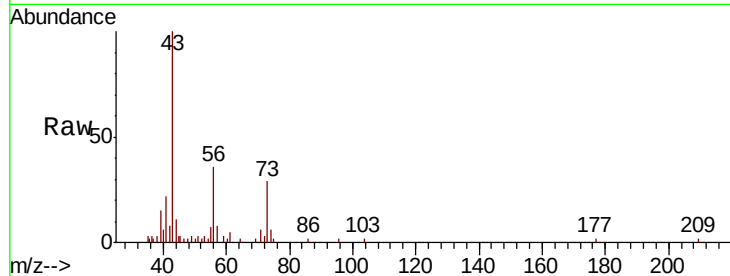




#53
 t-1,3-Dichloropropene
 Concen: 2.864 ug/l
 RT: 9.02 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: VX011336.D
 Acq: 05 Aug 2019 19:11

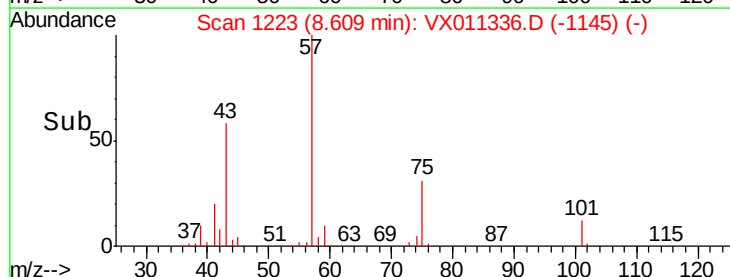
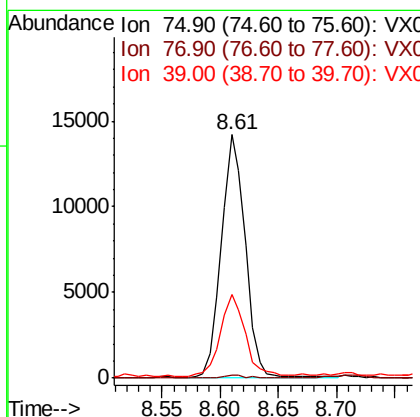
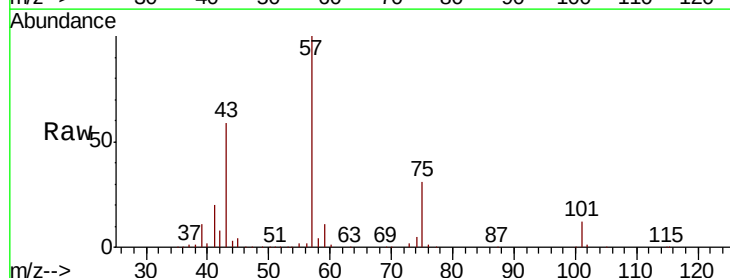
Instrument :
 MSVOA_X
 ClientSampled :

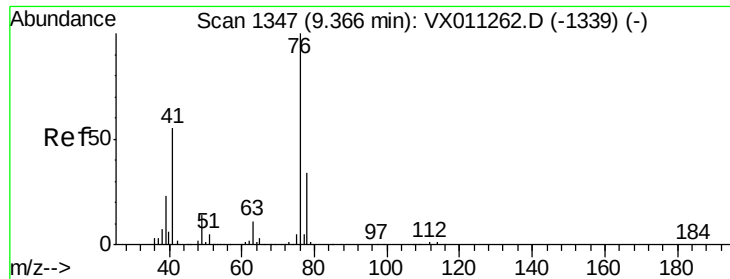
Tot Ion: 75 Resp: 71
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 7.822 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011336.D
 Acq: 05 Aug 2019 19:11

Tgt Ion: 75 Resp: 20354
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.0 37.6#
 39 33.7 35.3 52.9#

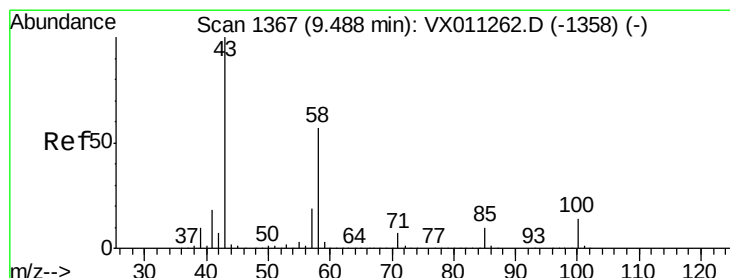
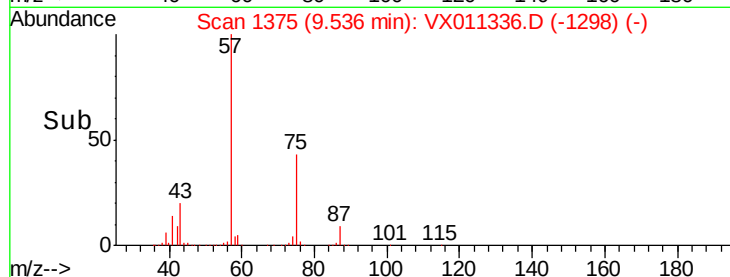
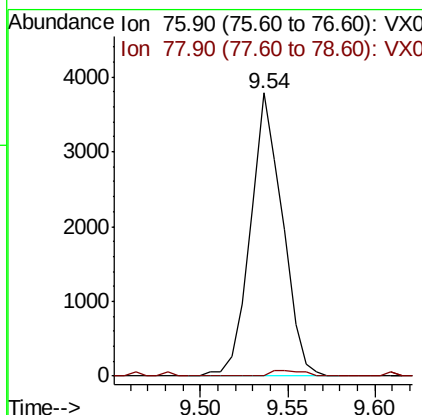
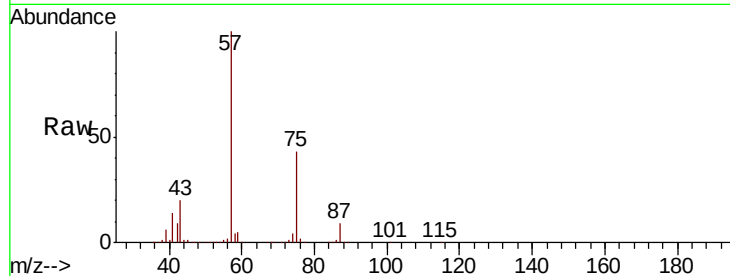




#57
 1,3-Dichloropropane
 Concen: 1.610 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011336.D
 Acq: 05 Aug 2019 19:11

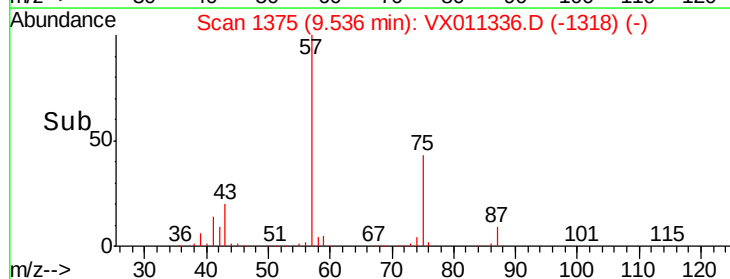
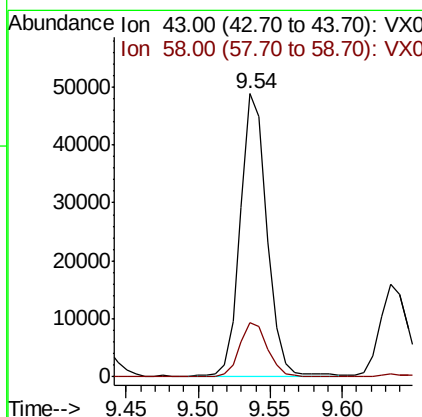
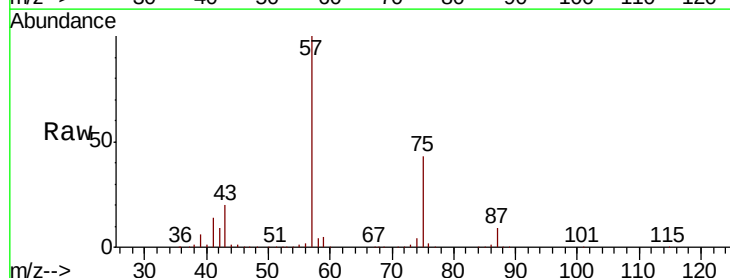
Instrument :
 MSVOA_X
 ClientSampleId :

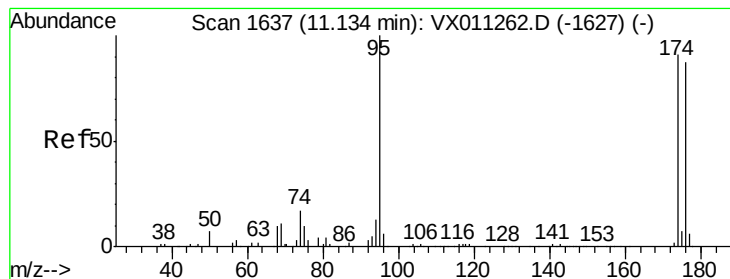
Tot Ion: 76 Resp: 4817
 Ion Ratio Lower Upper
 76 100
 78 2.0 26.6 40.0#



#59
 2-Hexanone
 Concen: 33.224 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011336.D
 Acq: 05 Aug 2019 19:11

Tgt Ion: 43 Resp: 62116
 Ion Ratio Lower Upper
 43 100
 58 20.6 28.2 84.6#





#62

4-Bromofluorobenzene

Concen: 42.962 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

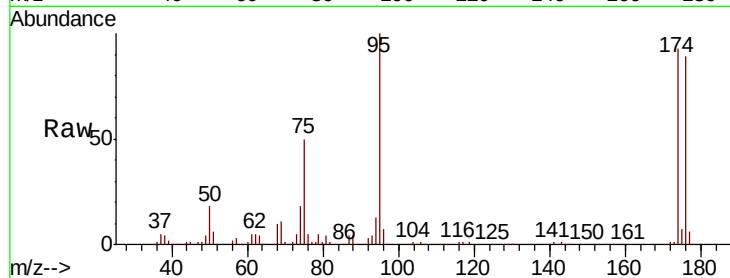
Tot Ion: 95 Resp: 100974

Ion Ratio Lower Upper

95 100

174 93.4 0.0 191.2

176 90.1 0.0 184.8

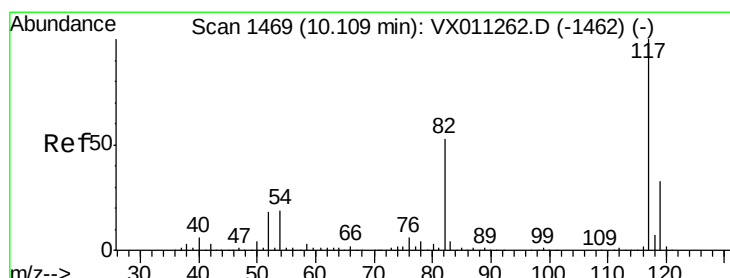
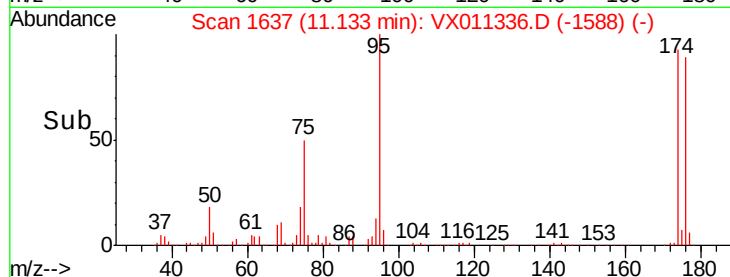


Abundance Ion 94.90 (94.60 to 95.60): VX011262.D (-1627) (-)

Ion 173.80 (173.50 to 174.50): VX011262.D (-1627) (-)

Ion 175.80 (175.50 to 176.50): VX011262.D (-1627) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

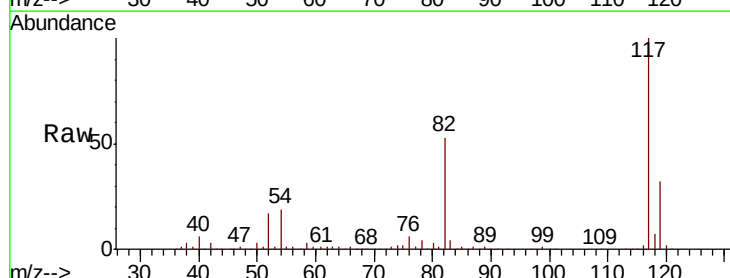
Tgt Ion: 117 Resp: 245444

Ion Ratio Lower Upper

117 100

82 52.7 42.2 63.2

119 32.2 26.6 39.8

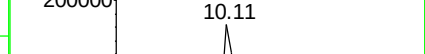
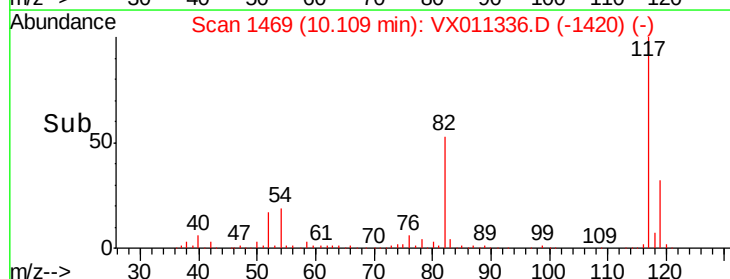


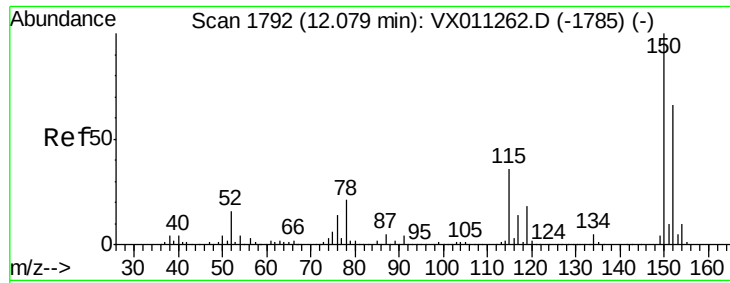
Abundance Ion 116.90 (116.60 to 117.60): VX011262.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX011262.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011262.D (-1462) (-)

Time-->



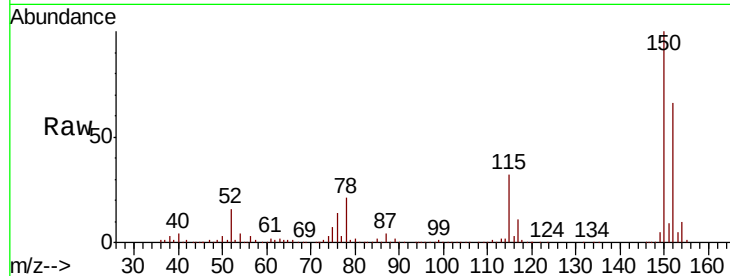


#72

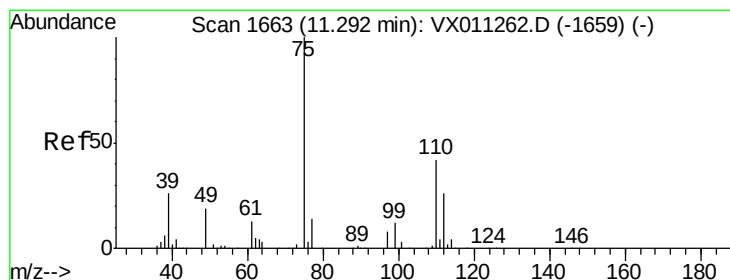
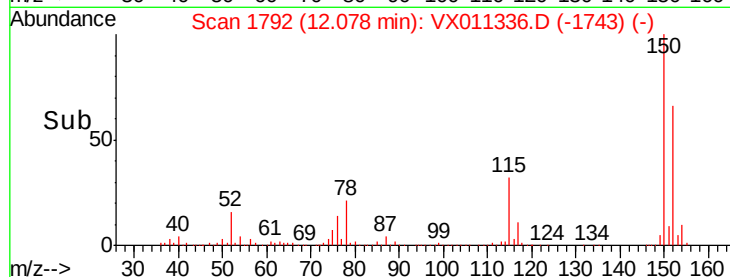
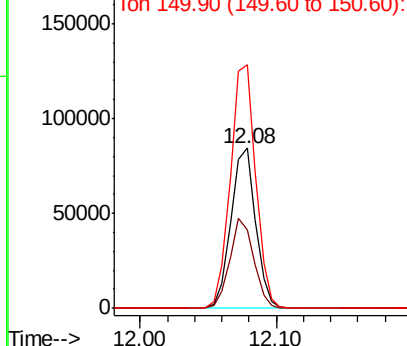
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011336.D
Acq: 05 Aug 2019 19:11

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 106635
Ion Ratio Lower Upper
152 100
115 54.4 40.0 119.9
150 155.6 0.0 350.4



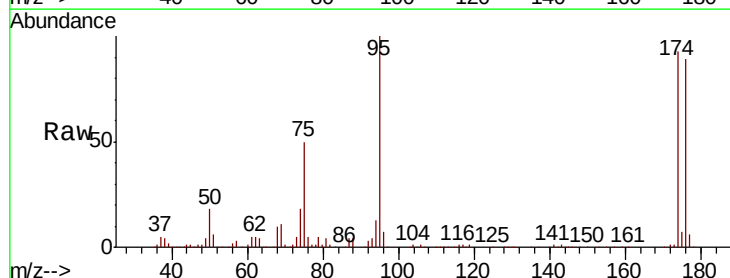
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



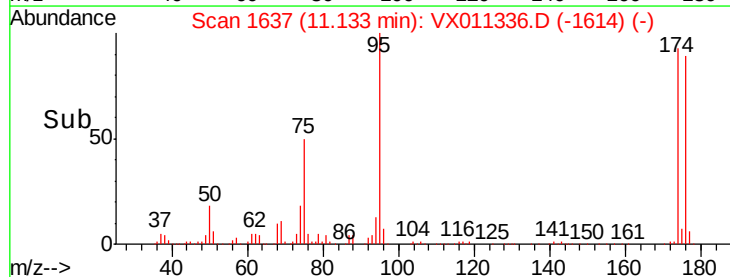
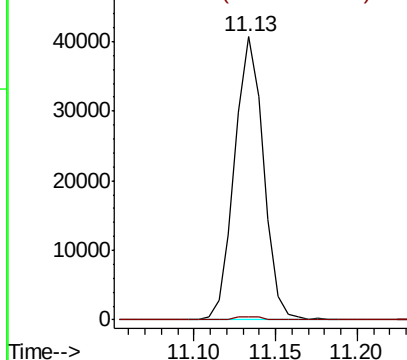
#76

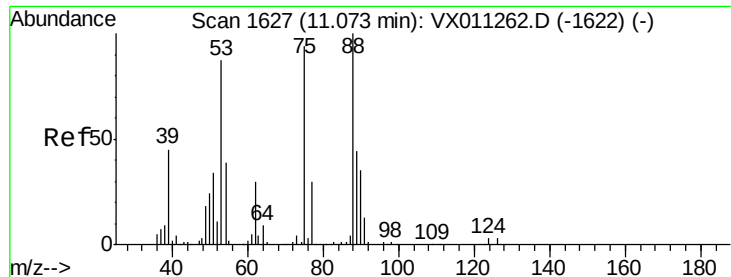
1,2,3-Trichloropropane
Concen: 25.870 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011336.D
Acq: 05 Aug 2019 19:11

Tgt Ion: 75 Resp: 50238
Ion Ratio Lower Upper
75 100
77 1.2 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.352 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011336.D

Acq: 05 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

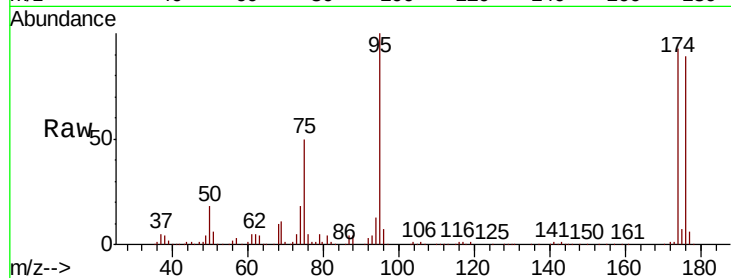
Tot Ion: 75 Resp: 50238

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.4#

89 0.0 37.9 56.9#



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

