

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061218\
 Data File : VX002467.D
 Acq On : 12 Jun 2018 15:31
 Operator : JC/MD
 Sample : J3406-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 01:25:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	201409	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	302355	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	276917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	151820	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	161047	56.36	ug/l	0.00
Spiked Amount			Recovery	=	112.72%	
35) Dibromofluoromethane	5.51	113	120331	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
50) Toluene-d8	8.72	98	473284	51.93	ug/l	0.00
Spiked Amount			Recovery	=	103.86%	
62) 4-Bromofluorobenzene	11.14	95	161535	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	

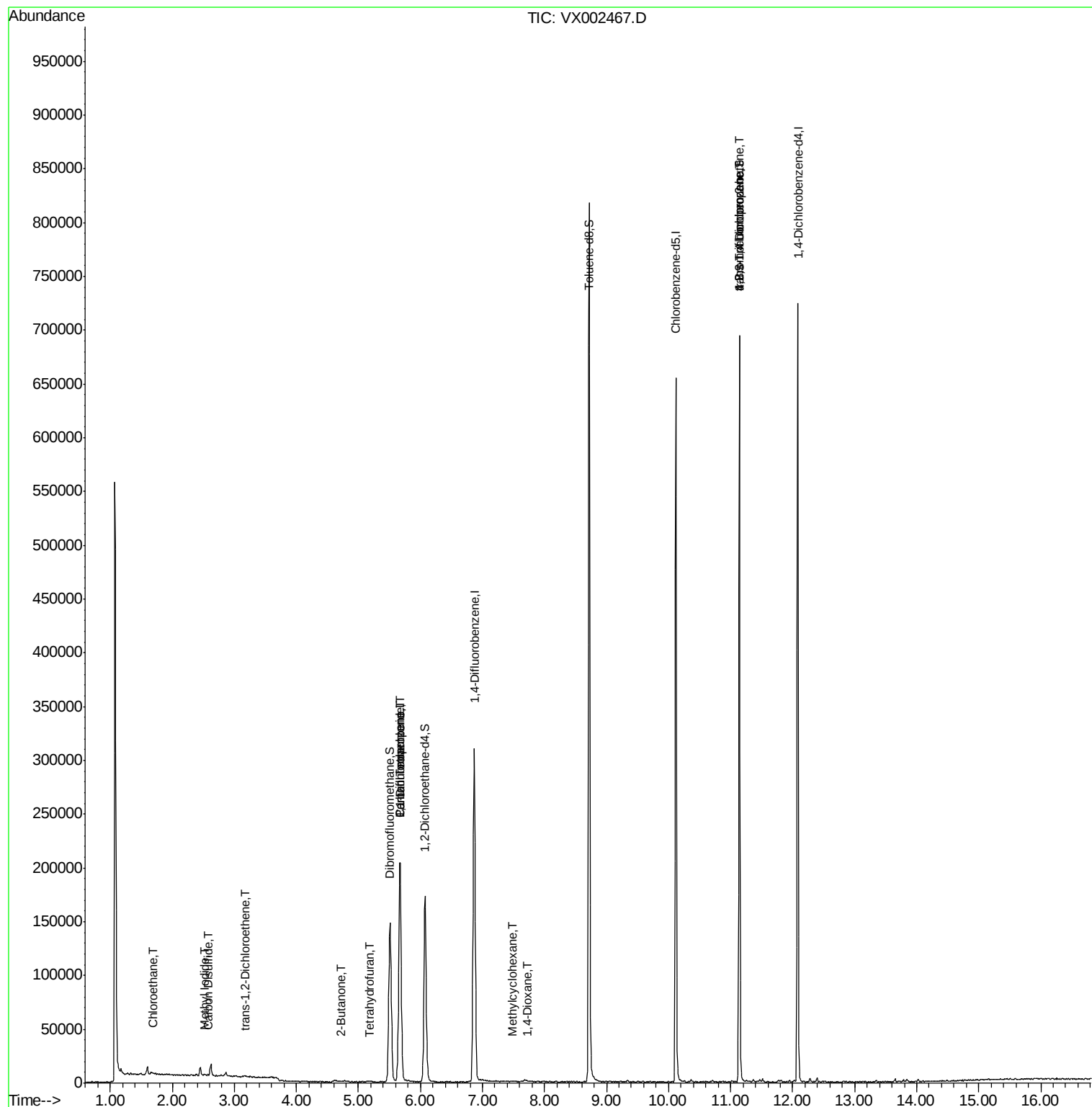
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	569	Below Cal		98
5) Bromomethane	1.65	94	1193	Below Cal	#	70
6) Chloroethane	1.69	64	451	0.26	ug/l #	57
8) Diethyl Ether	2.20	74	173	Below Cal		93
10) Methyl Iodide	2.52	142	2024	0.66	ug/l	92
11) Tert butyl alcohol	3.07	59	345	Below Cal	#	1
13) Acrolein	2.29	56	287	Below Cal	#	14
15) Acrylonitrile	3.15	53	705	Below Cal	#	70
16) Acetone	2.45	43	8975	Below Cal		94
17) Carbon Disulfide	2.57	76	1501	0.27	ug/l #	86
18) Methyl Acetate	2.79	43	1089	Below Cal		91
19) Methyl tert-butyl Ether	3.18	73	38	Below Cal	#	54
20) Methylene Chloride	2.86	84	1468	Below Cal		93
21) trans-1,2-Dichloroethene	3.17	96	481	0.20	ug/l #	67
22) Diisopropyl ether	3.88	45	119	Below Cal	#	77
25) 2-Butanone	4.71	43	436	0.22	ug/l #	52
28) Bromochloromethane	5.01	49	168	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	327	0.26	ug/l #	55
36) 1,1-Dichloropropene	5.67	75	14980	4.71	ug/l #	51
38) Carbon Tetrachloride	5.67	117	19280	5.80	ug/l #	16
39) Methylcyclohexane	7.47	83	285	0.33	ug/l #	59
49) 1,4-Dioxane	7.73	88	20	0.33	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	88074	26.44	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	88074	92.67	ug/l #	6

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

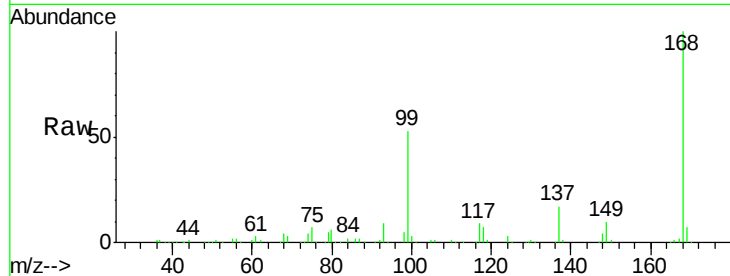
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 201409

Ion Ratio Lower Upper

168 100

99 52.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

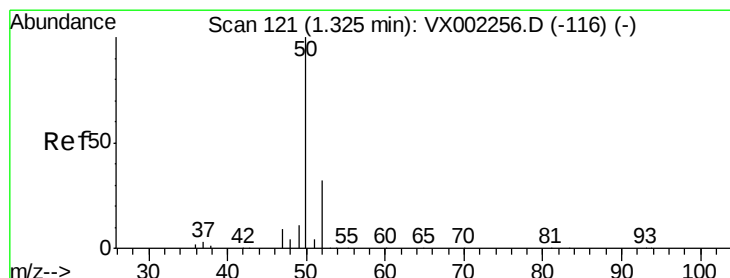
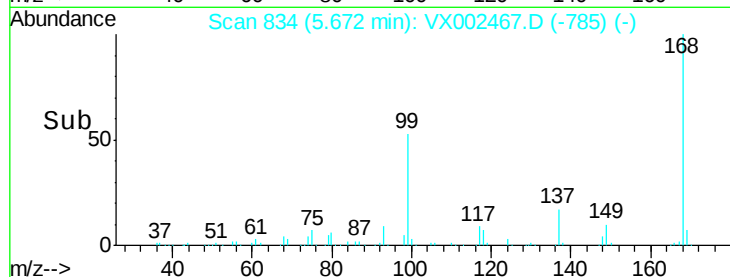
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002467.D

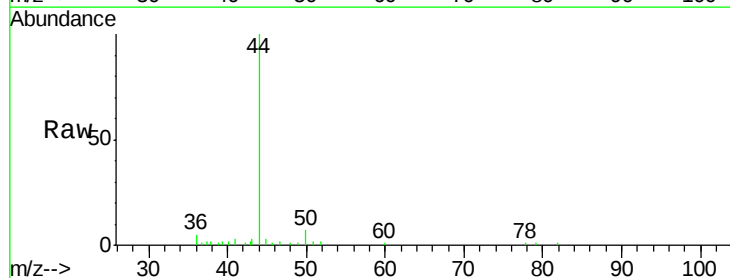
Acq: 12 Jun 2018 15:31

Tgt Ion: 50 Resp: 569

Ion Ratio Lower Upper

50 100

52 33.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

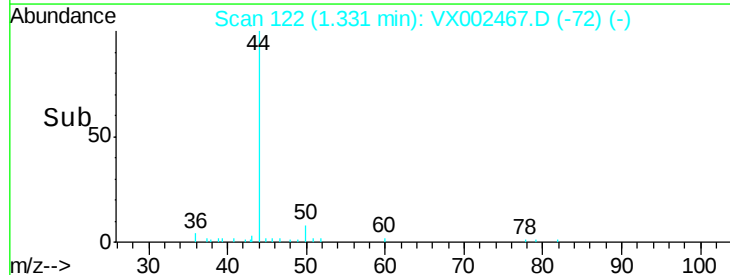
300

200

100

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :

MSVOA_X

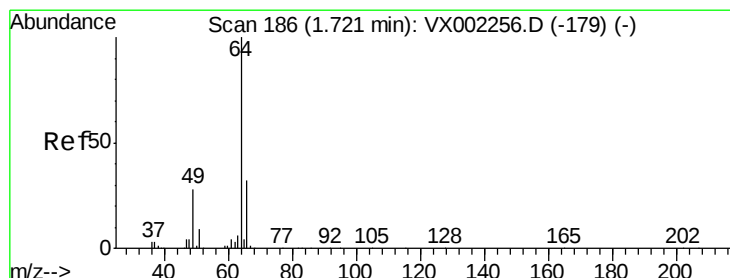
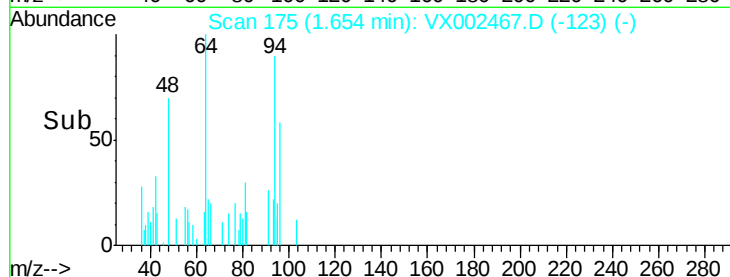
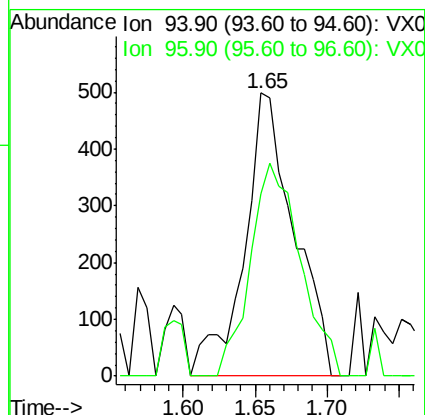
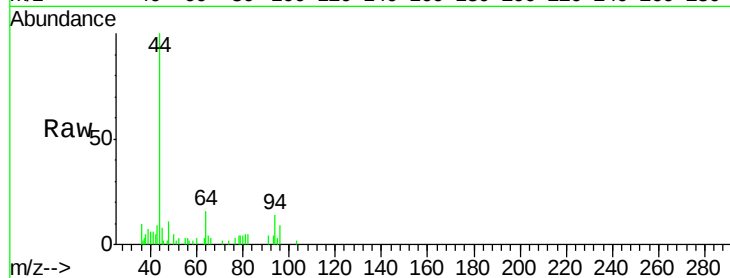
ClientSampled :

Tot Ion: 94 Resp: 1193

Ion Ratio Lower Upper

94 100

96 64.5 74.9 112.3#



#6

Chloroethane

Concen: 0.26 ug/l

RT: 1.69 min Scan# 181

Delta R.T. -0.03 min

Lab File: VX002467.D

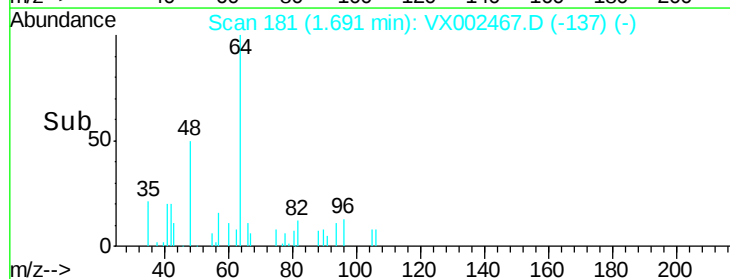
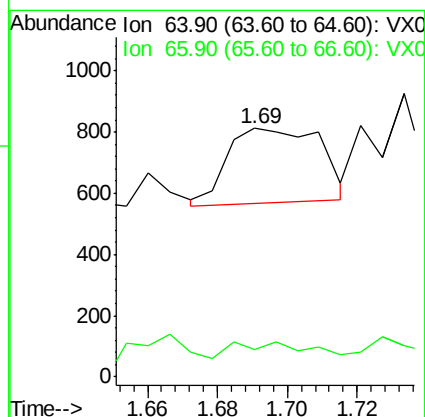
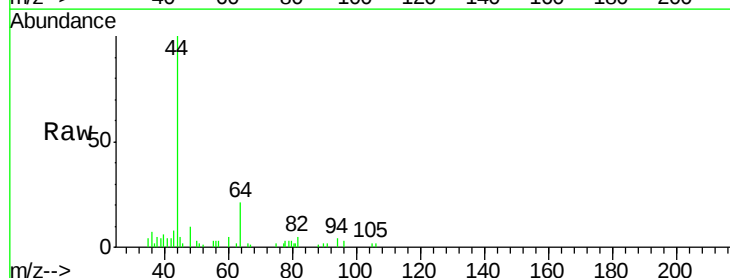
Acq: 12 Jun 2018 15:31

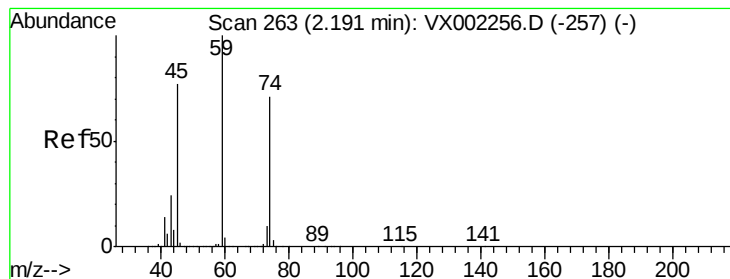
Tgt Ion: 64 Resp: 451

Ion Ratio Lower Upper

64 100

66 7.7 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :

MSVOA_X

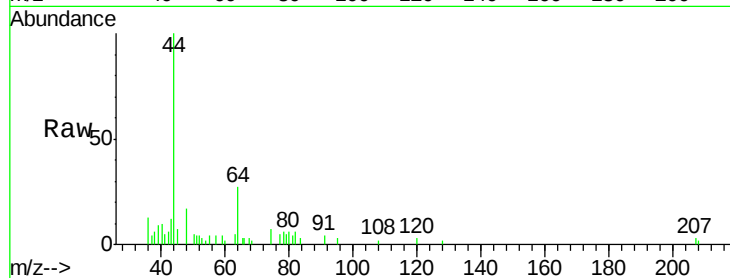
ClientSampleId :

Tot Ion: 74 Resp: 173

Ion Ratio Lower Upper

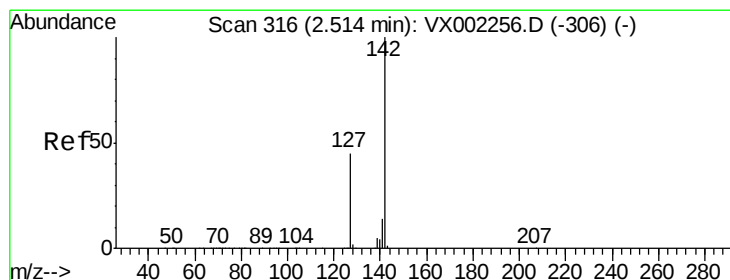
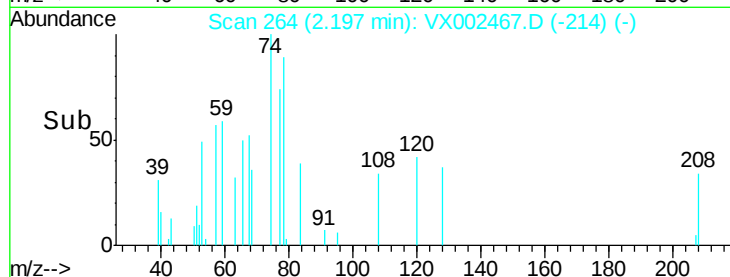
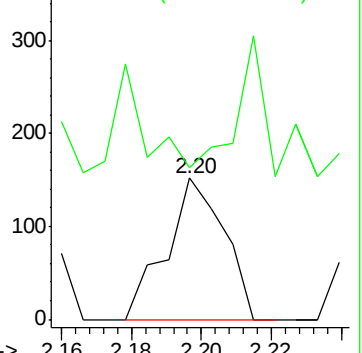
74 100

45 113.3 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.66 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

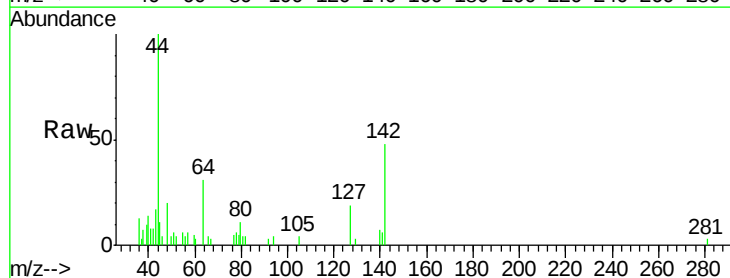
Tgt Ion: 142 Resp: 2024

Ion Ratio Lower Upper

142 100

127 52.7 36.6 55.0

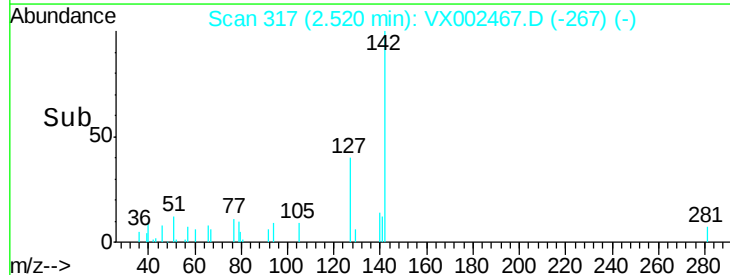
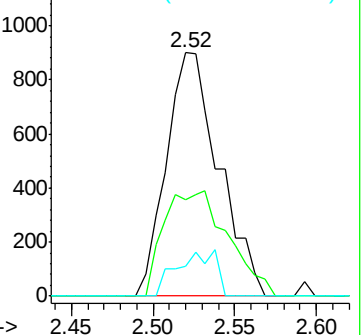
141 13.9 11.3 16.9

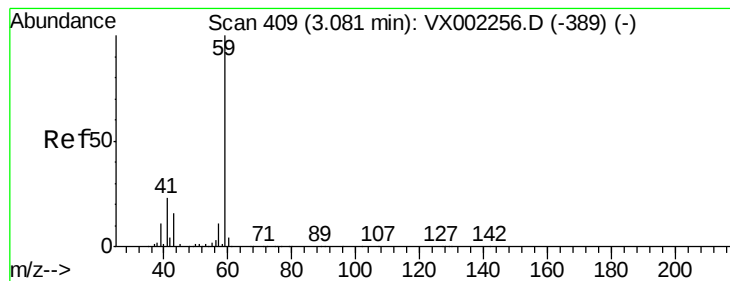


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



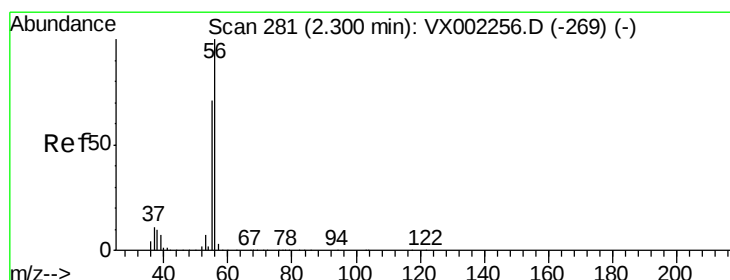
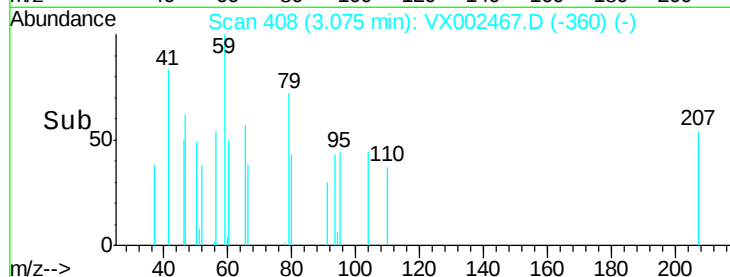
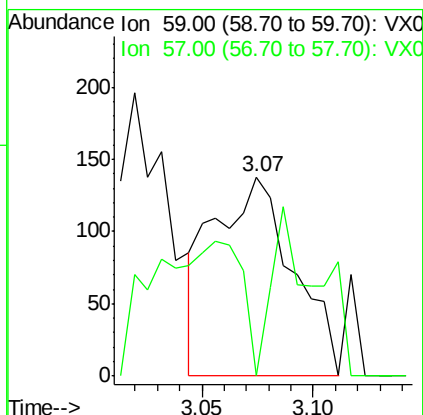
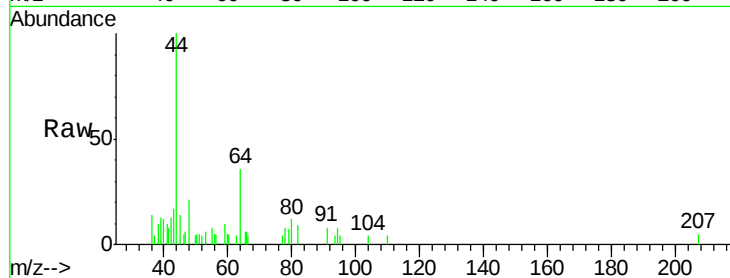


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002467.D
Acq: 12 Jun 2018 15:31

Instrument :
MSVOA_X
ClientSampled :

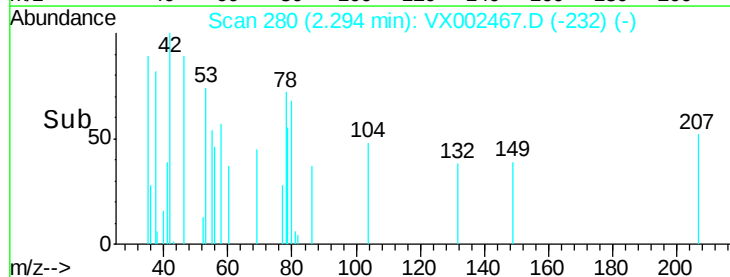
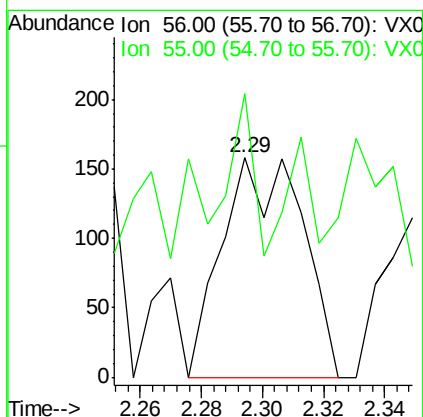
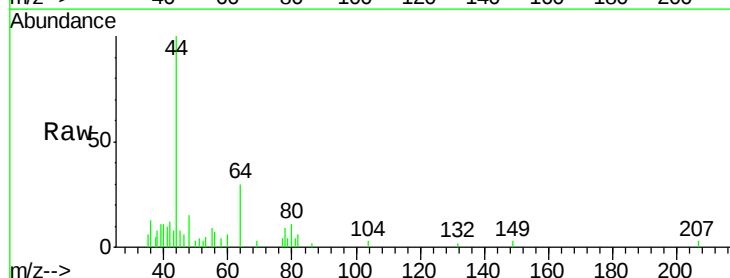
Tot Ion: 59 Resp: 345
Ion Ratio Lower Upper
59 100
57 47.0 8.2 12.2#

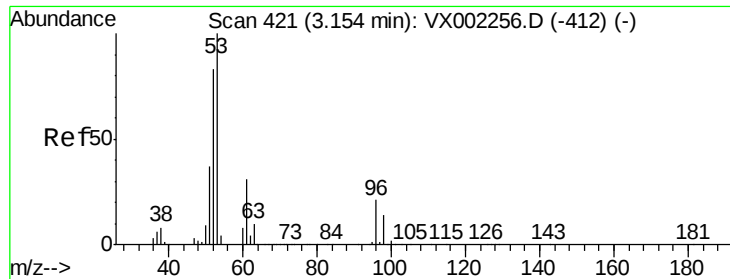


#13

Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX002467.D
Acq: 12 Jun 2018 15:31

Tgt Ion: 56 Resp: 287
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :

MSVOA_X

ClientSampled :

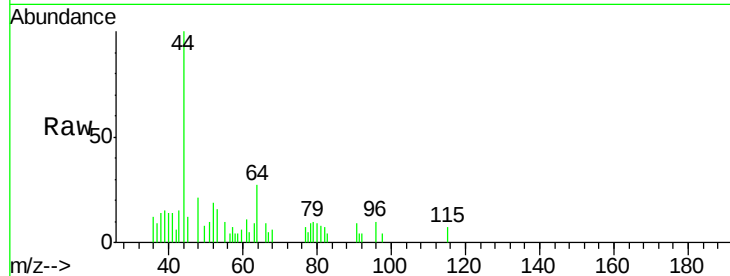
Tot Ion: 53 Resp: 705

Ion Ratio Lower Upper

53 100

52 98.2 66.7 100.1

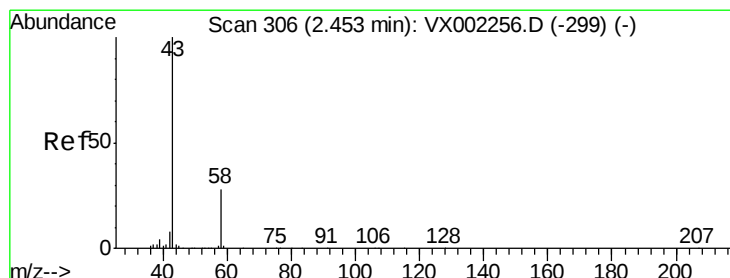
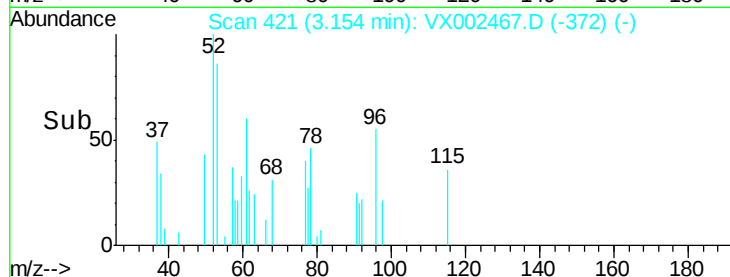
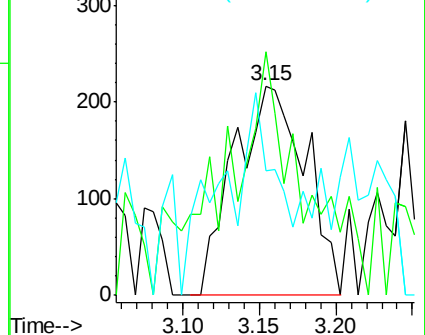
51 73.0 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002467.D

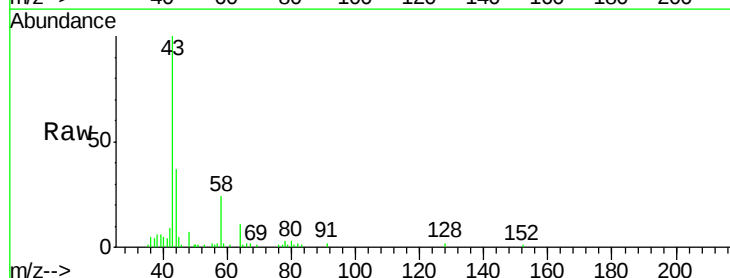
Acq: 12 Jun 2018 15:31

Tgt Ion: 43 Resp: 8975

Ion Ratio Lower Upper

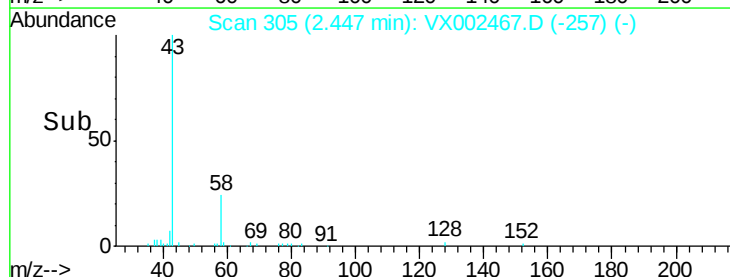
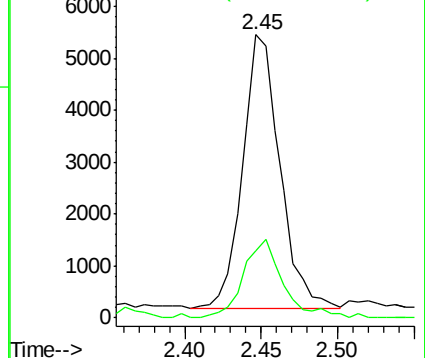
43 100

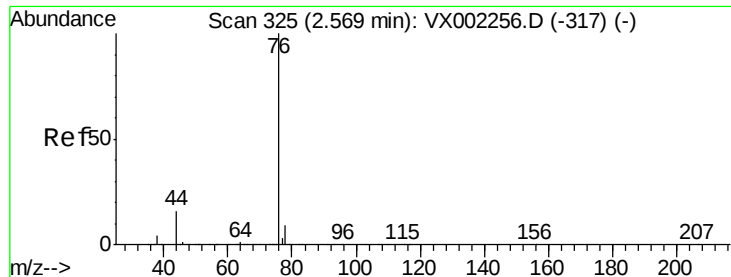
58 24.6 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

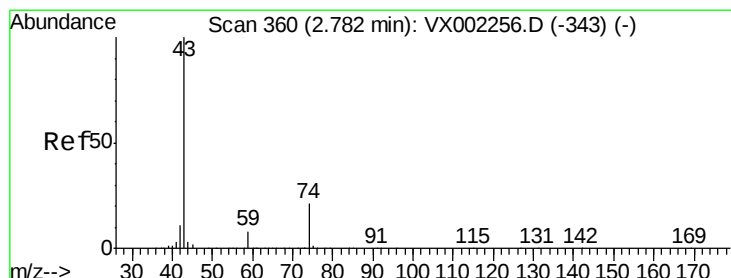
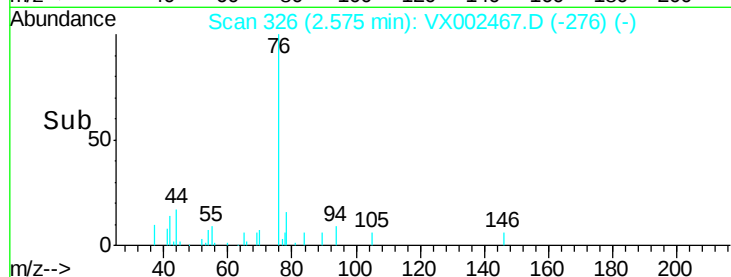
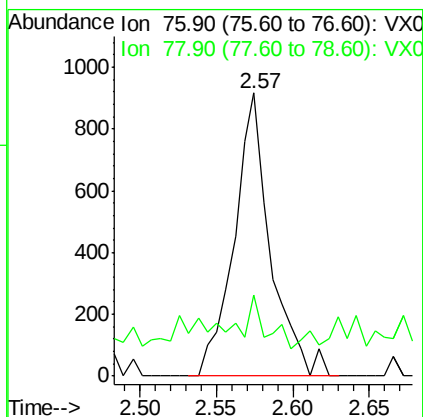
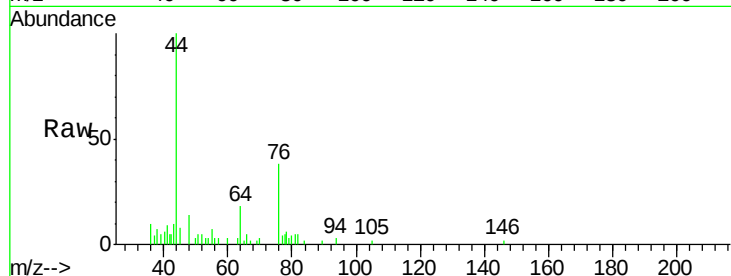




#17
Carbon Disulfide
Concen: 0.27 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002467.D
Acq: 12 Jun 2018 15:31

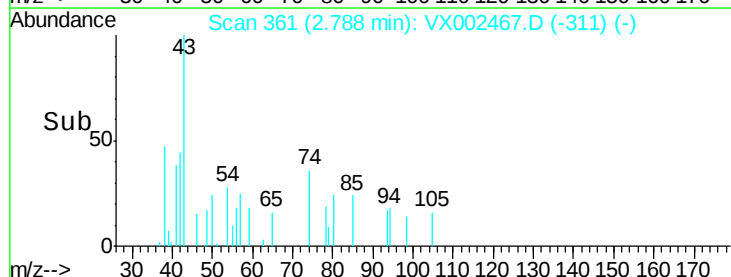
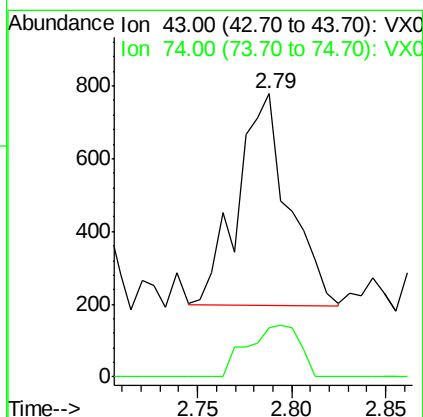
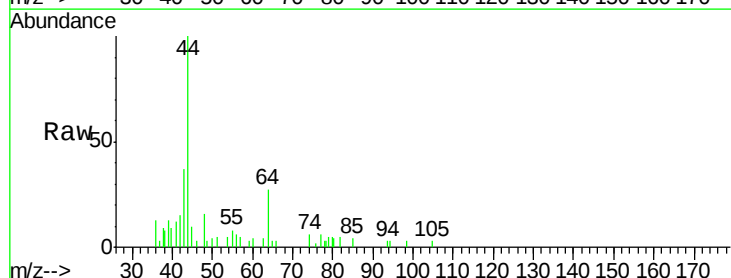
Instrument :
MSVOA_X
ClientSampled :

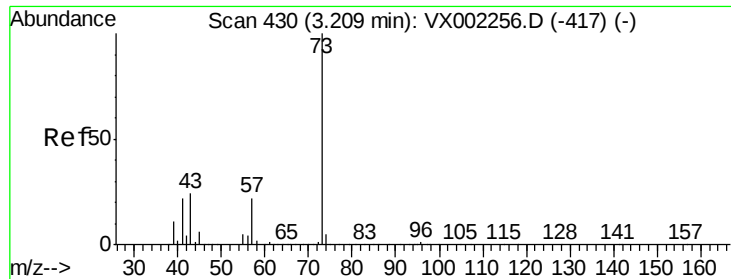
Tot Ion: 76 Resp: 1501
Ion Ratio Lower Upper
76 100
78 13.6 6.9 10.3#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002467.D
Acq: 12 Jun 2018 15:31

Tgt Ion: 43 Resp: 1089
Ion Ratio Lower Upper
43 100
74 25.0 16.7 25.1



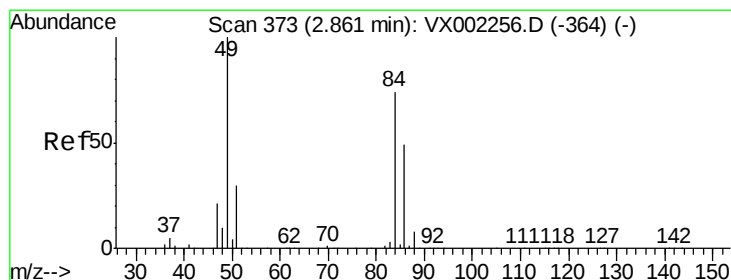
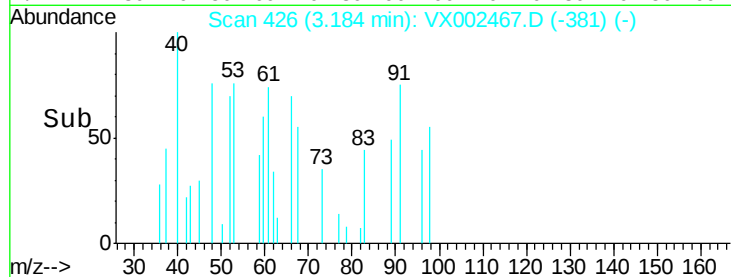
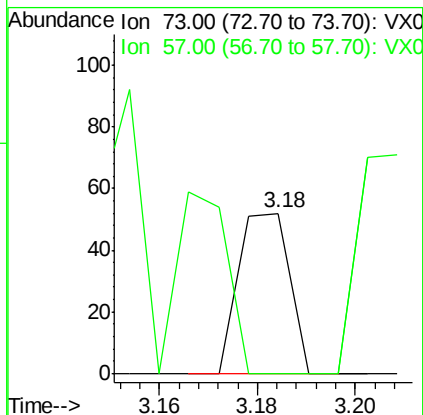
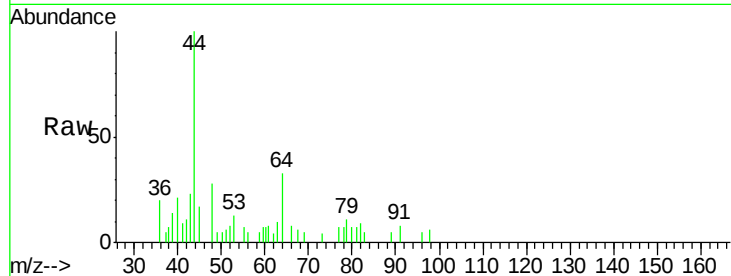


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.18 min Scan# 426
Delta R.T. -0.02 min
Lab File: VX002467.D
Acq: 12 Jun 2018 15:31

Instrument :
MSVOA_X
ClientSampled :

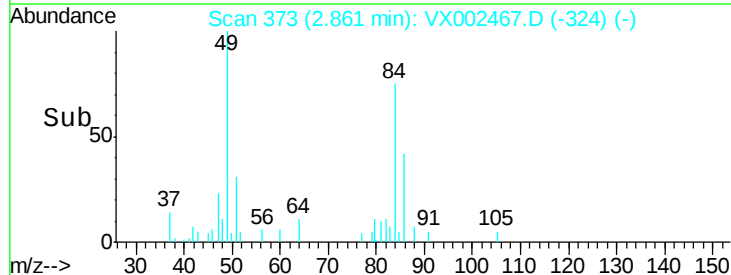
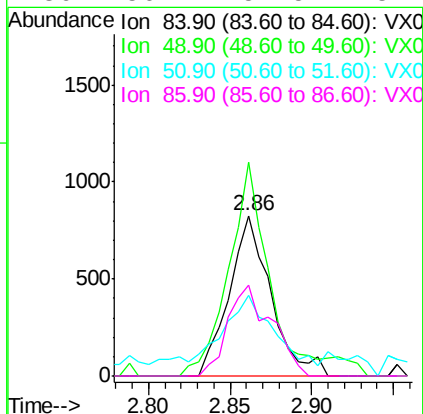
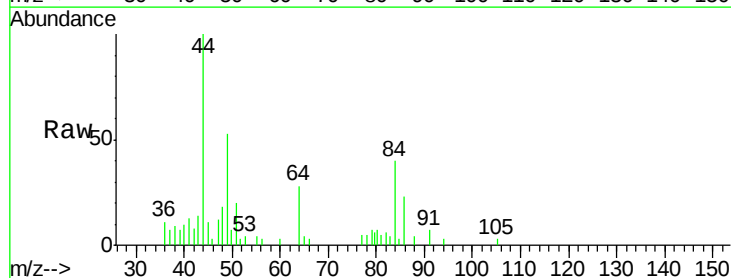
Tot Ion: 73 Resp: 38
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

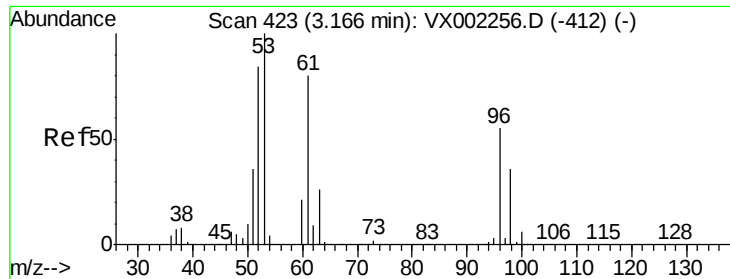


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002467.D
Acq: 12 Jun 2018 15:31

Tgt Ion: 84 Resp: 1468
Ion Ratio Lower Upper
84 100
49 126.2 107.8 161.6
51 40.8 32.8 49.2
86 56.4 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 0.20 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :

MSVOA_X

ClientSampleId :

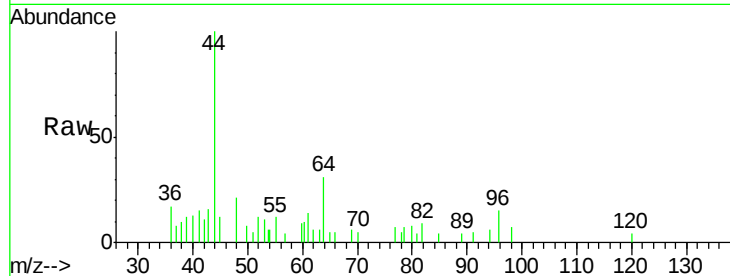
Tot Ion: 96 Resp: 481

Ion Ratio Lower Upper

96 100

61 98.1 117.0 175.4#

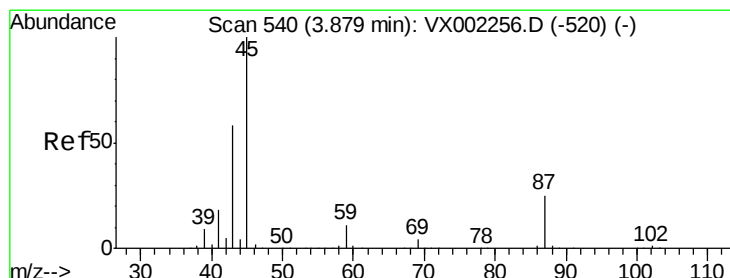
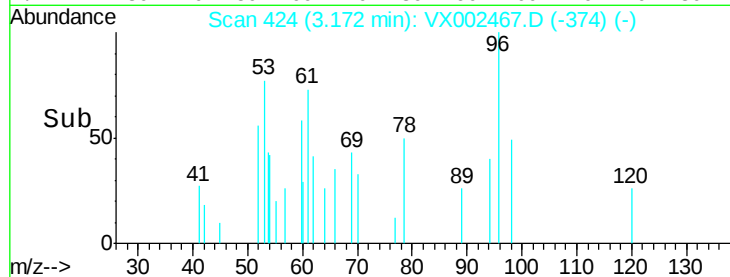
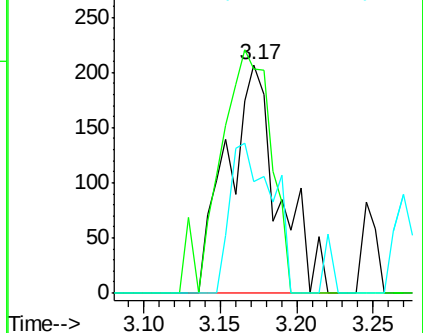
98 48.8 52.4 78.6#



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



#22

Diisopropyl ether

Concen: Below Cal

RT: 3.88 min Scan# 540

Delta R.T. 0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Tgt Ion: 45 Resp: 119

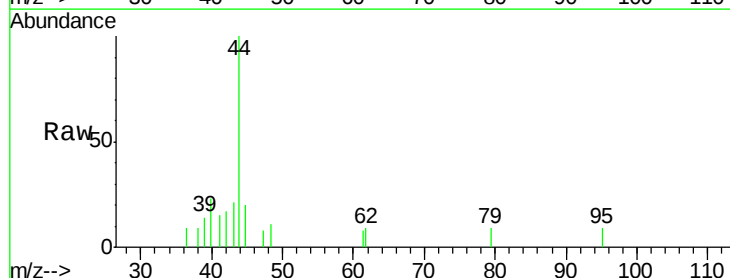
Ion Ratio Lower Upper

45 100

43 66.1 46.8 70.2

87 0.0 20.2 30.4#

59 0.0 8.7 13.1#

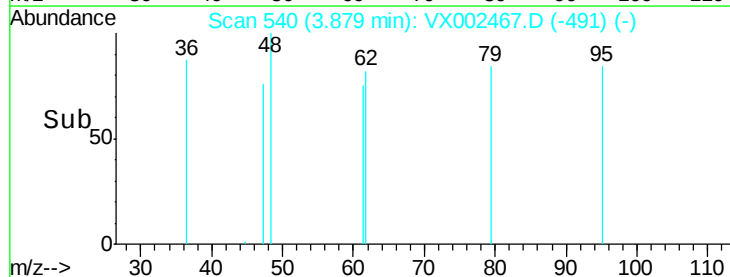
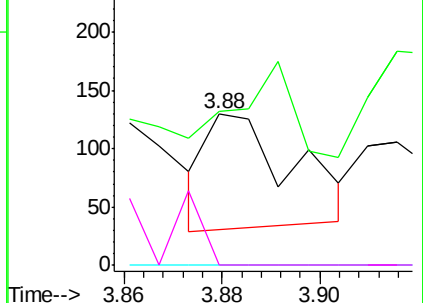


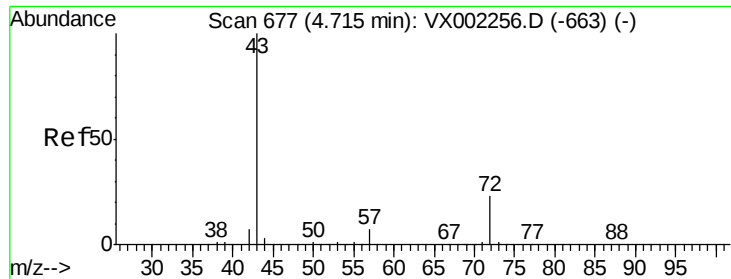
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#25

2-Butanone

Concen: 0.22 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :

MSVOA_X

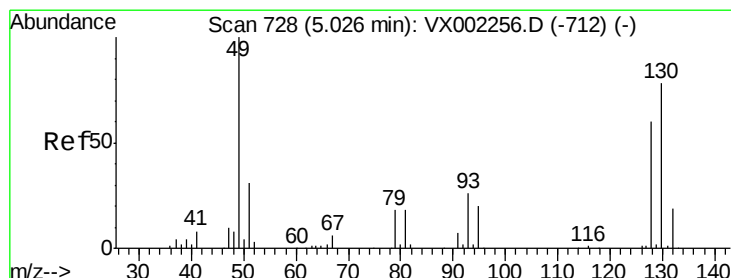
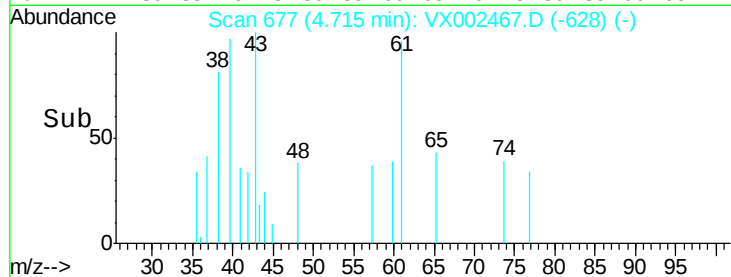
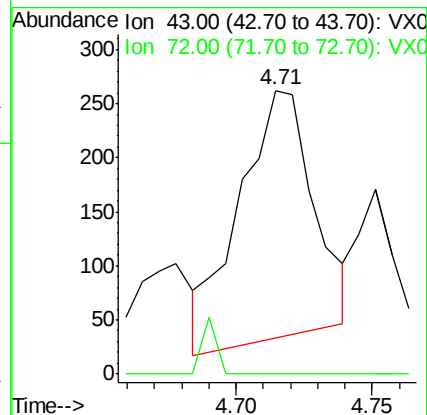
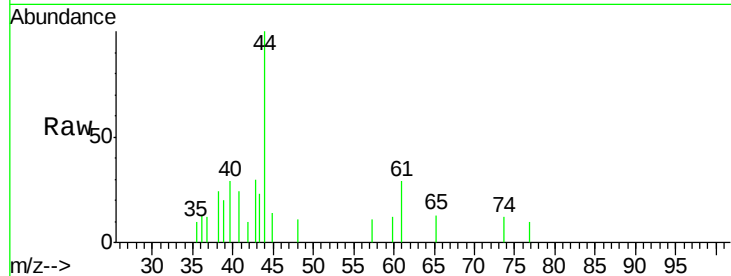
ClientSampleId :

Tot Ion: 43 Resp: 436

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 725

Delta R.T. -0.02 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

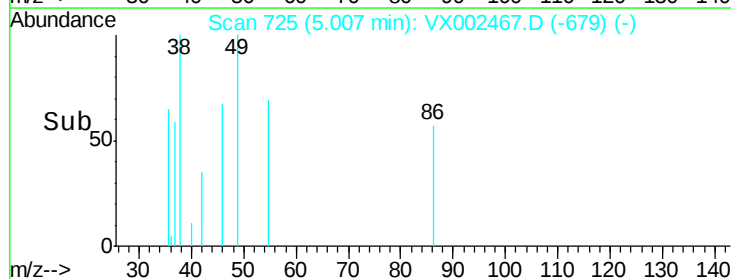
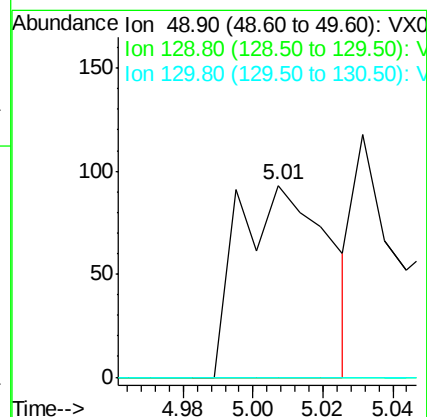
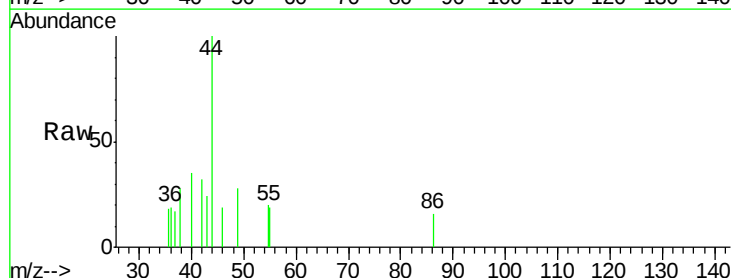
Tgt Ion: 49 Resp: 168

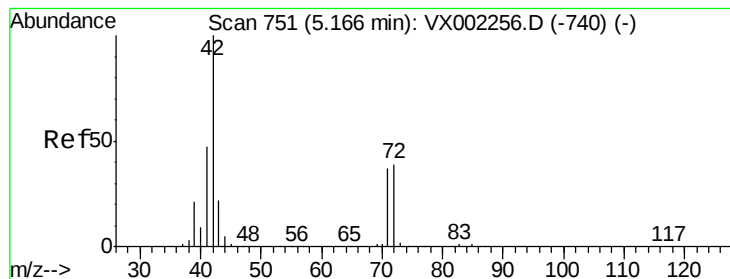
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#





#29

Tetrahydrofuran

Concen: 0.26 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

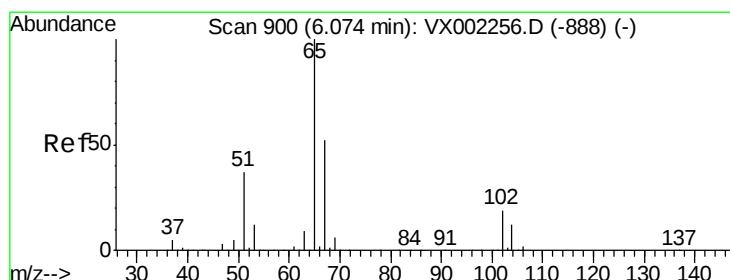
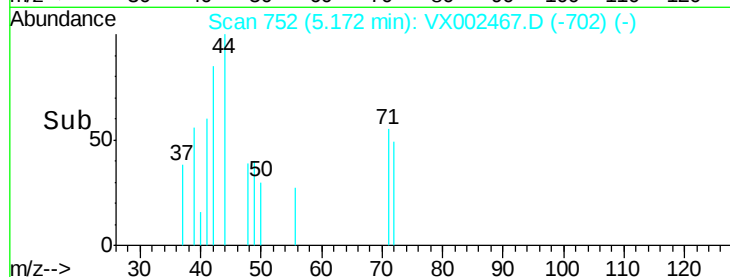
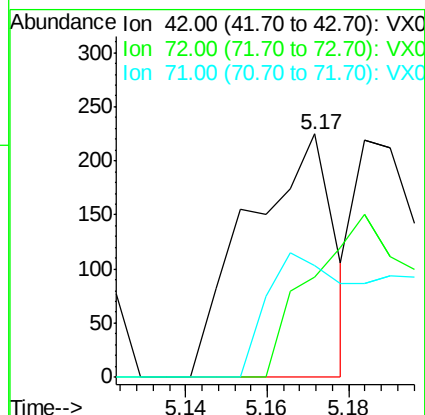
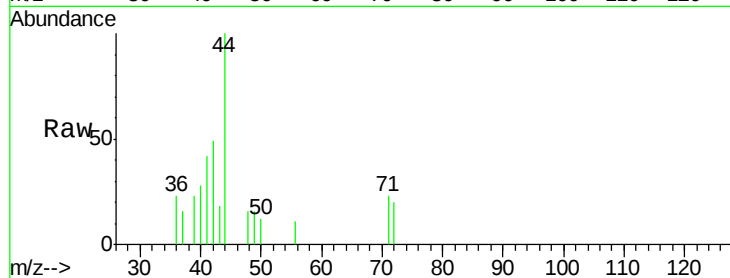
Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 42 Resp: 327

Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.0	48.0#
71	52.0	30.1	45.1#



#33

1,2-Dichloroethane-d4

Concen: 56.36 ug/l

RT: 6.07 min Scan# 900

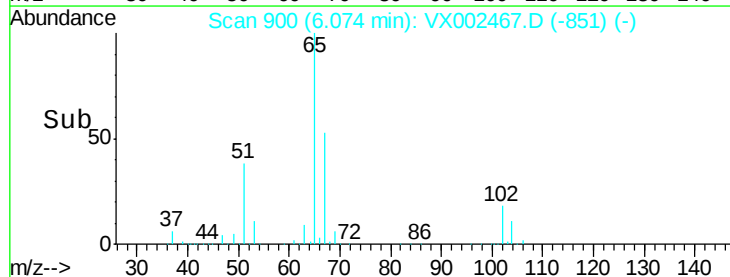
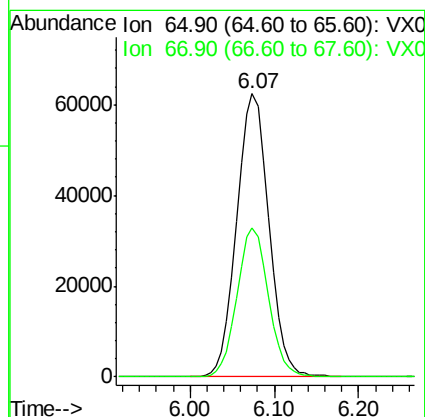
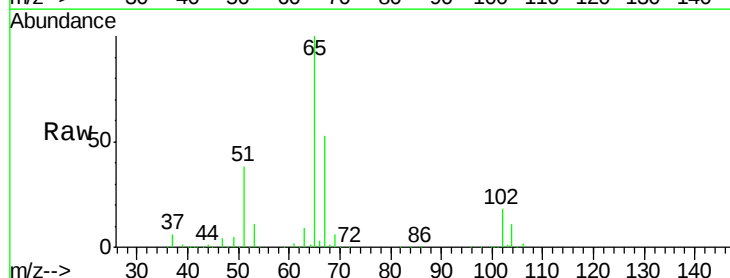
Delta R.T. 0.00 min

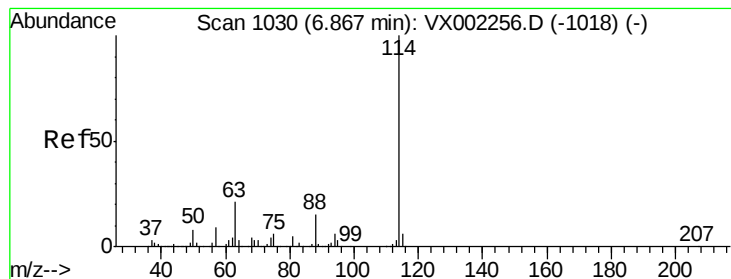
Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Tgt Ion: 65 Resp: 161047

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :
MSVOA_X
ClientSampleId :

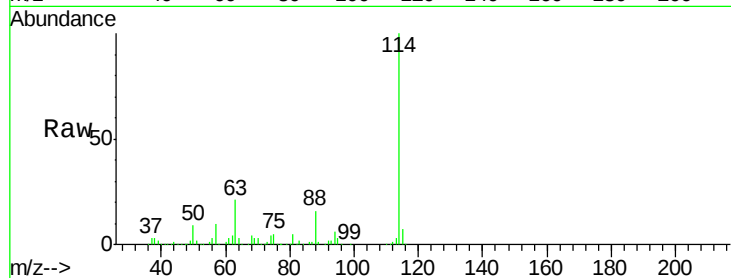
Tot Ion:114 Resp: 302355

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.4

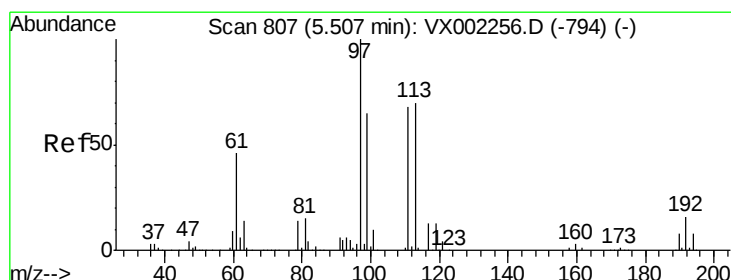
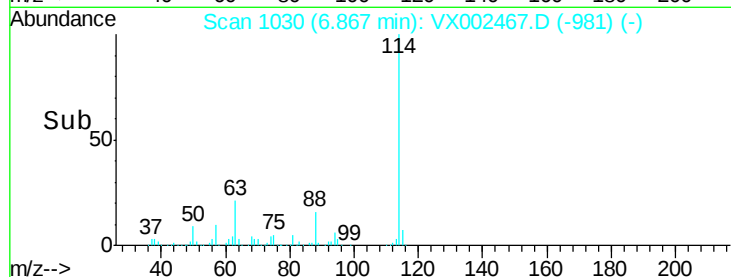
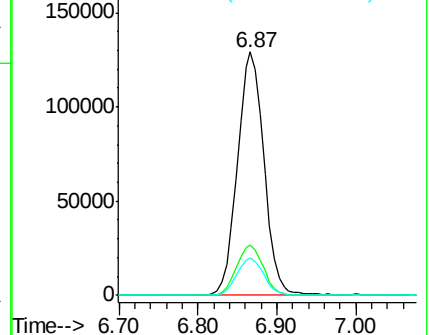
88 15.7 0.0 30.0



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: 50.61 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

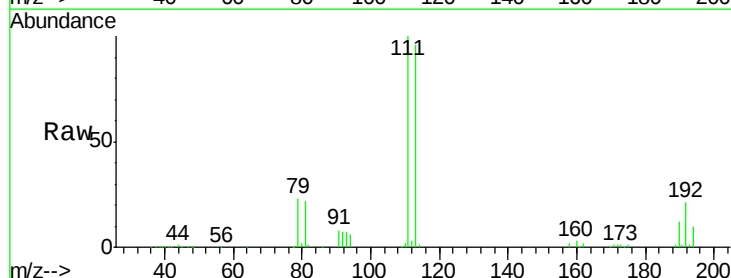
Tgt Ion:113 Resp: 120331

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.0

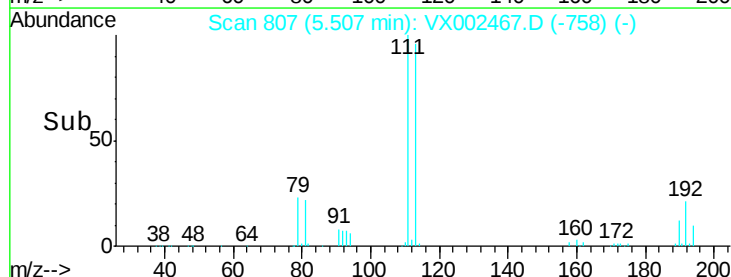
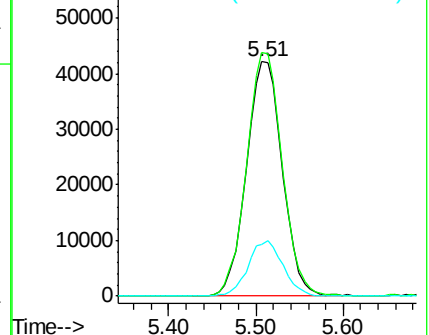
192 23.1 19.1 28.7

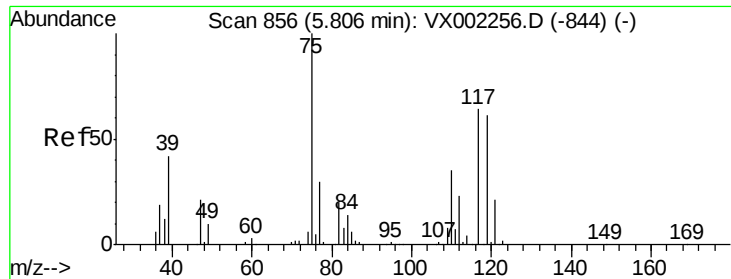


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

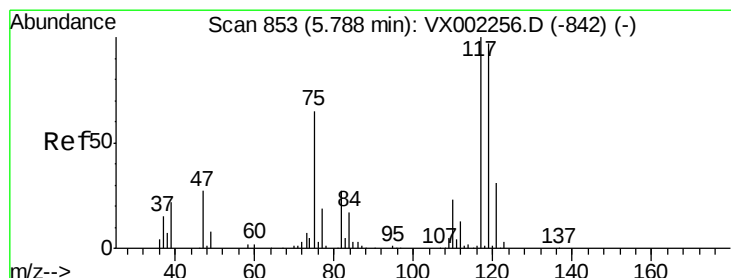
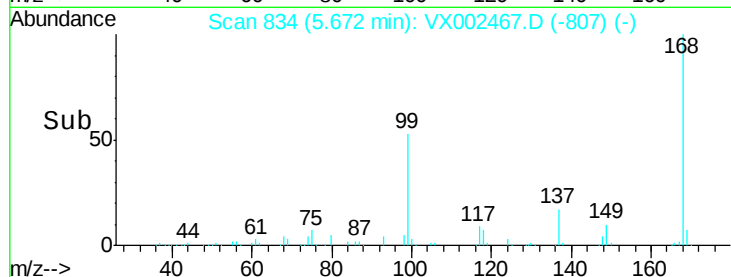
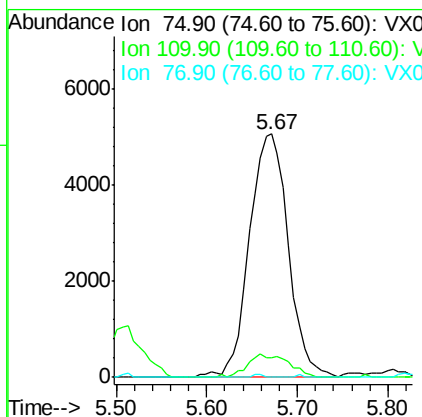
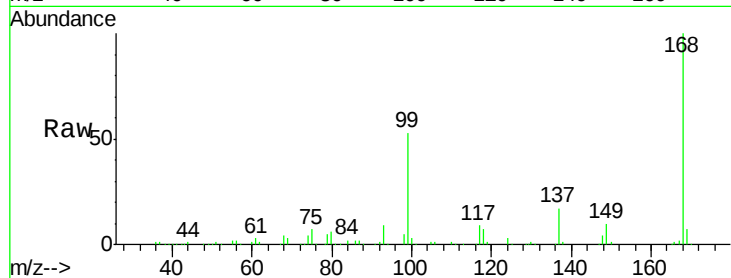




#36
 1,1-Dichloropropene
 Concen: 4.71 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002467.D
 Acq: 12 Jun 2018 15:31

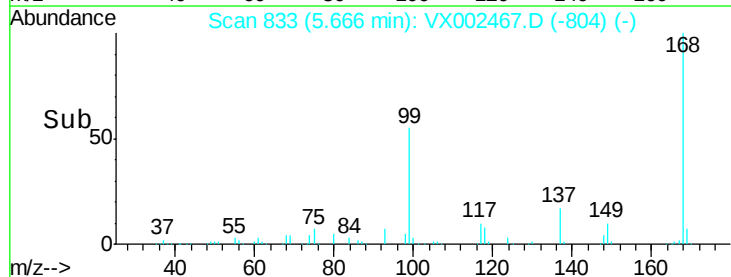
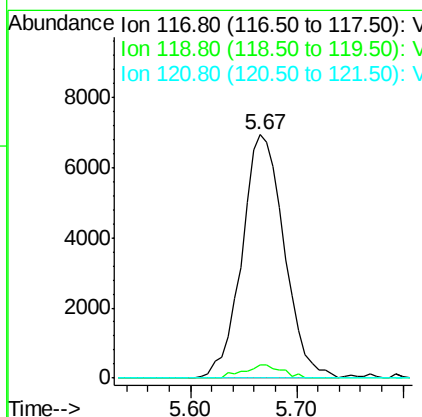
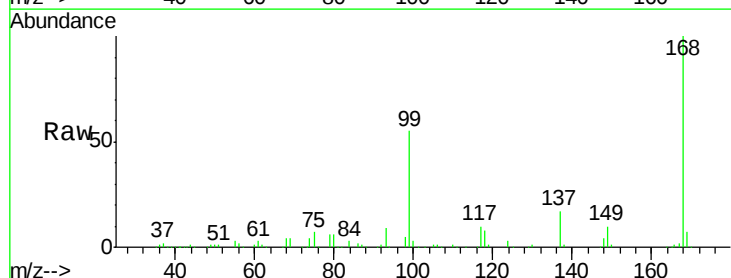
Instrument :
 MSVOA_X
 ClientSampleId :

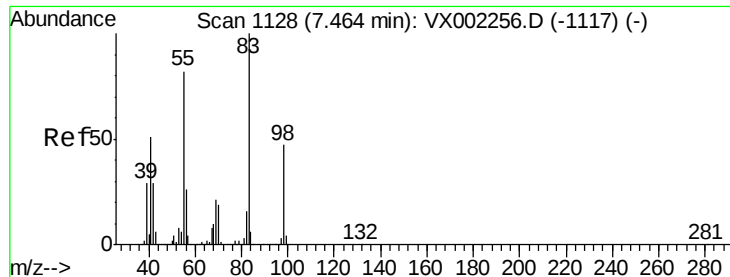
Tot Ion: 75 Resp: 14980
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.4#
 77 0.3 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.80 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002467.D
 Acq: 12 Jun 2018 15:31

Tgt Ion:117 Resp: 19280
 Ion Ratio Lower Upper
 117 100
 119 5.3 77.4 116.0#
 121 0.0 24.4 36.6#





#39

Methylcyclohexane

Concen: 0.33 ug/l

RT: 7.47 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :

MSVOA_X

ClientSampled :

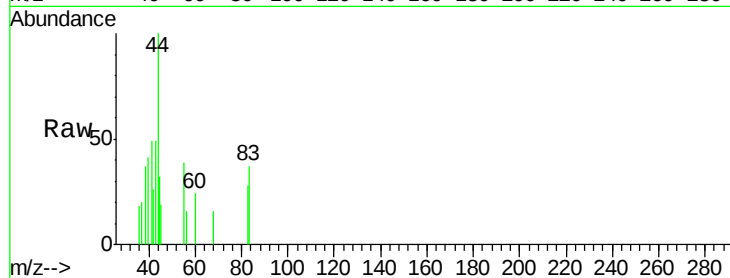
Tot Ion: 83 Resp: 285

Ion Ratio Lower Upper

83 100

55 60.0 65.4 98.0#

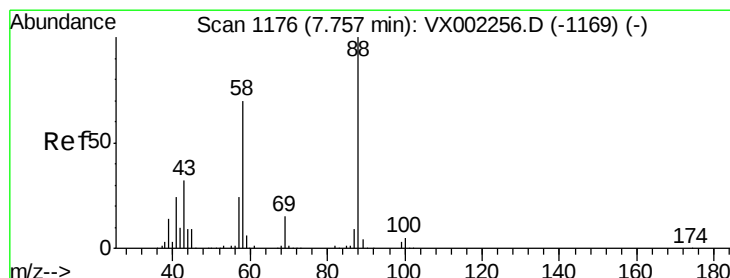
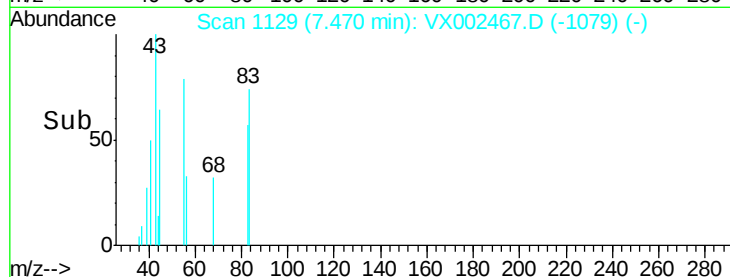
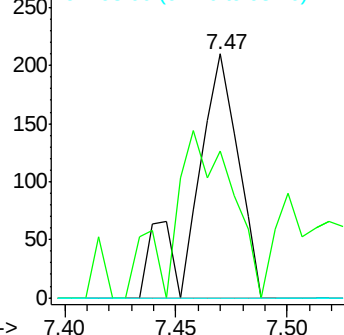
98 0.0 37.4 56.0#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#49

1,4-Dioxane

Concen: 0.33 ug/l

RT: 7.73 min Scan# 1171

Delta R.T. -0.03 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

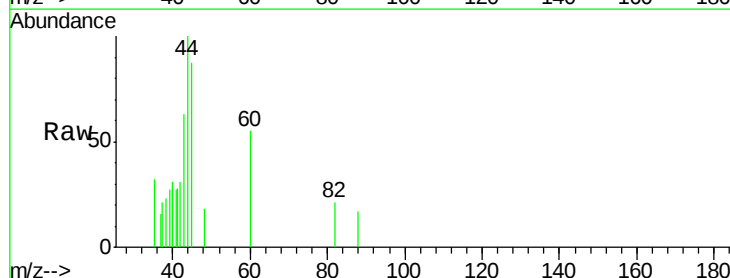
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 250.0 29.8 44.6#

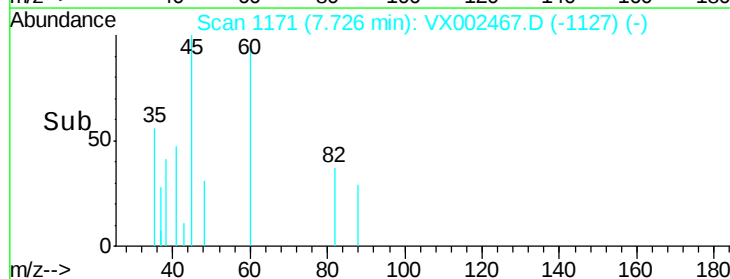
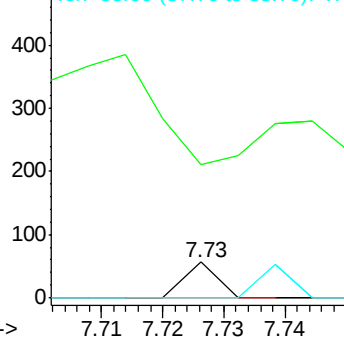
58 95.0 57.1 85.7#

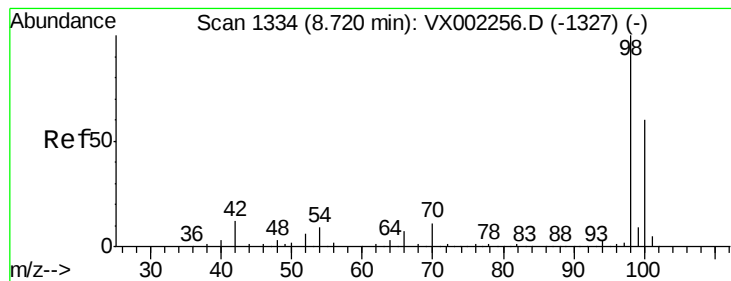


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.93 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :

MSVOA_X

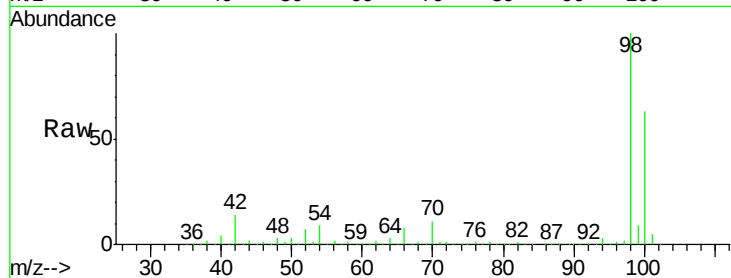
ClientSampleId :

Tot Ion: 98 Resp: 473284

Ion Ratio Lower Upper

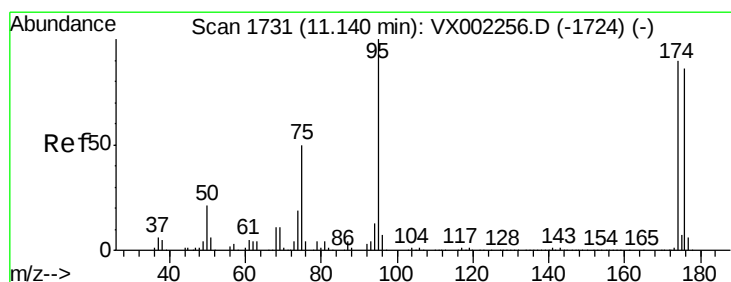
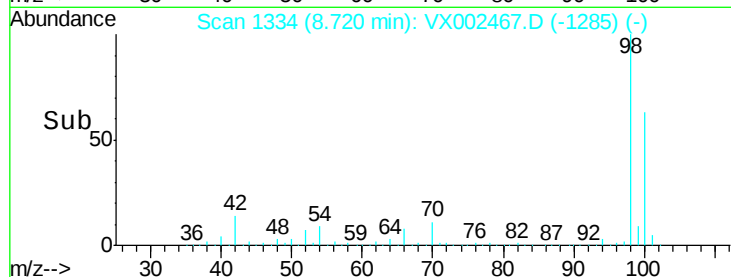
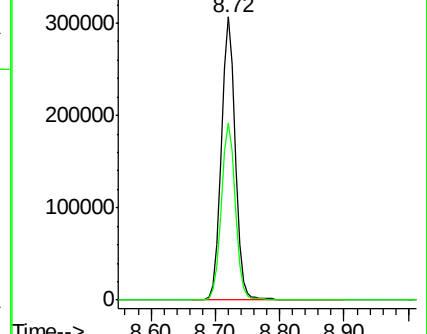
98 100

100 62.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 45.96 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

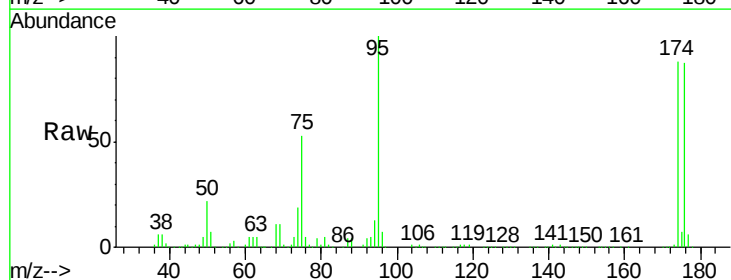
Tgt Ion: 95 Resp: 161535

Ion Ratio Lower Upper

95 100

174 93.7 0.0 187.4

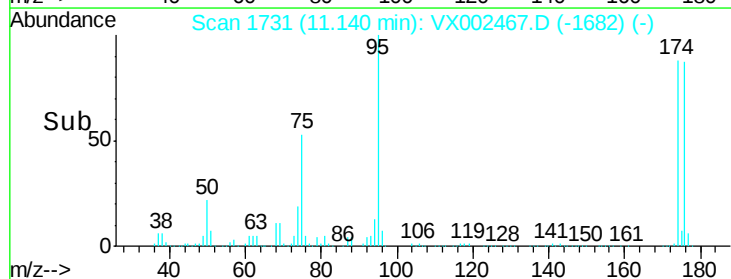
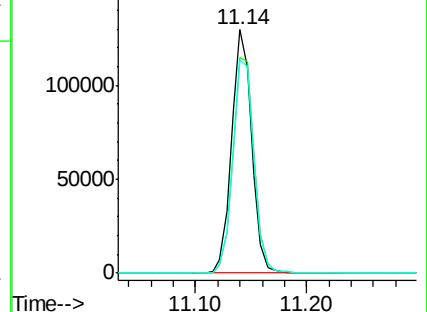
176 91.7 0.0 181.0

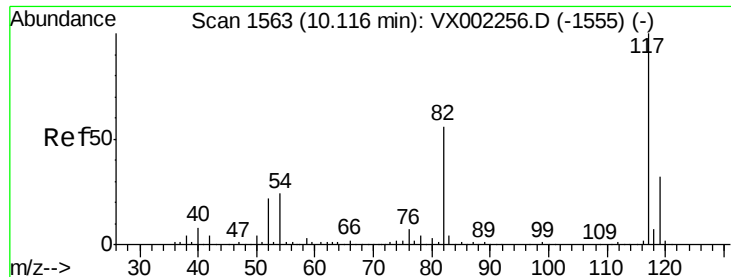


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

Instrument :

MSVOA_X

ClientSampled :

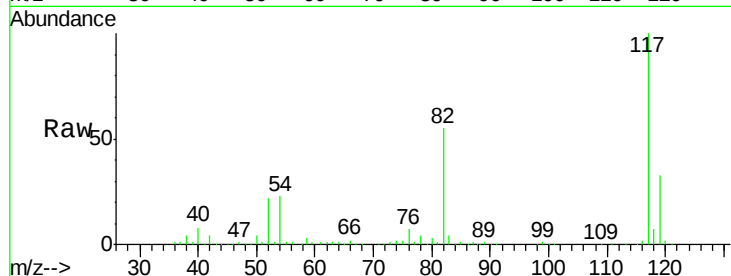
Tot Ion:117 Resp: 276917

Ion Ratio Lower Upper

117 100

82 55.3 45.0 67.4

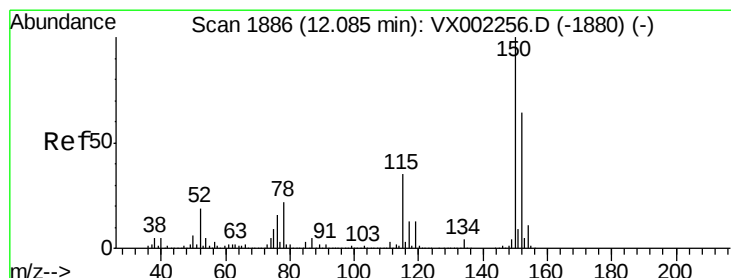
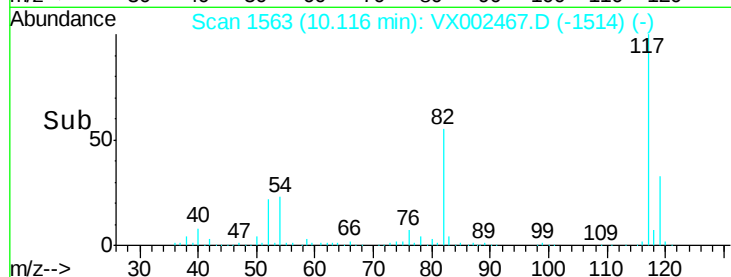
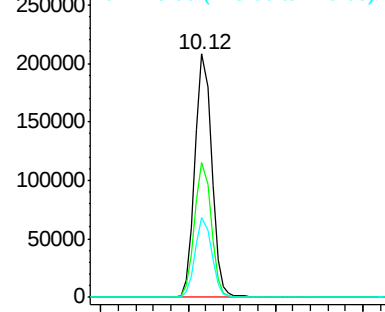
119 33.0 25.8 38.6



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: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002467.D

Acq: 12 Jun 2018 15:31

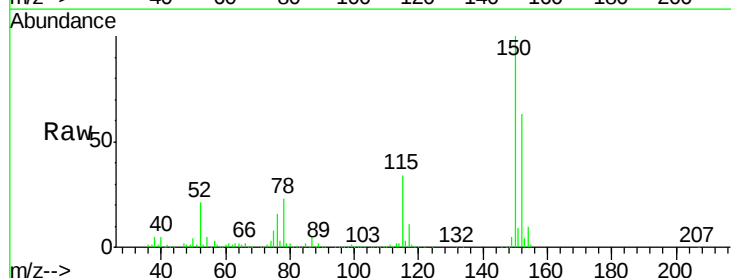
Tgt Ion:152 Resp: 151820

Ion Ratio Lower Upper

152 100

115 55.4 40.1 120.2

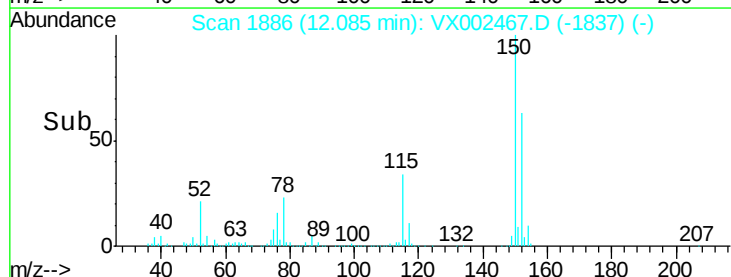
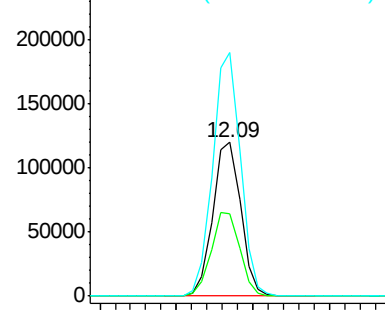
150 157.1 0.0 347.2

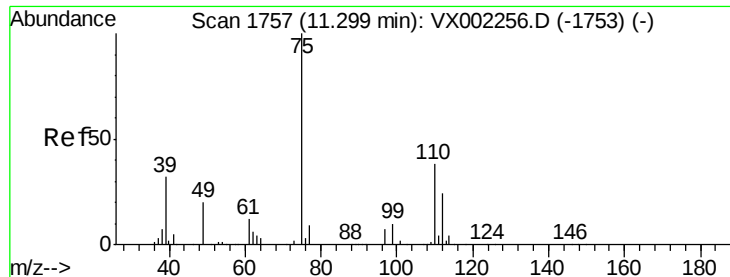


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

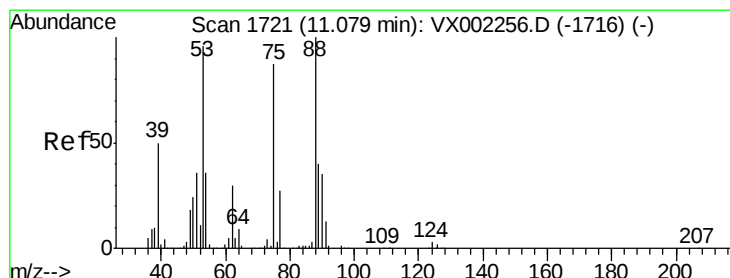
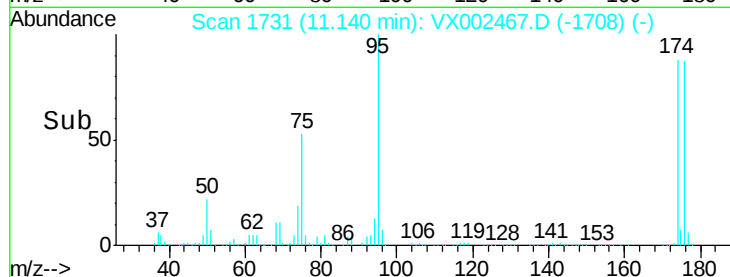
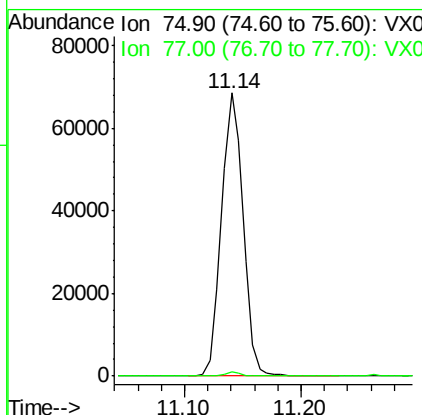
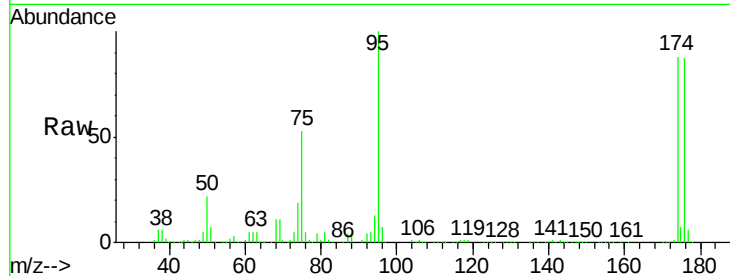




#76
 1,2,3-Trichloropropane
 Concen: 26.44 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002467.D
 Acq: 12 Jun 2018 15:31

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 88074
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.67 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002467.D
 Acq: 12 Jun 2018 15:31

Tgt Ion: 75 Resp: 88074
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.8 130.2#
 89 0.0 38.2 57.2#

