

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060718\
 Data File : VX002381.D
 Acq On : 07 Jun 2018 16:47
 Operator : JC/MD
 Sample : J3340-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF5-0067

Quant Time: Jun 08 01:45:34 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	224218	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	328701	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	296201	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	161016	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	173703	54.49	ug/l	0.00
Spiked Amount			Recovery	=	108.98%	
35) Dibromofluoromethane	5.51	113	133202	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
50) Toluene-d8	8.72	98	520399	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
62) 4-Bromofluorobenzene	11.14	95	179132	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	

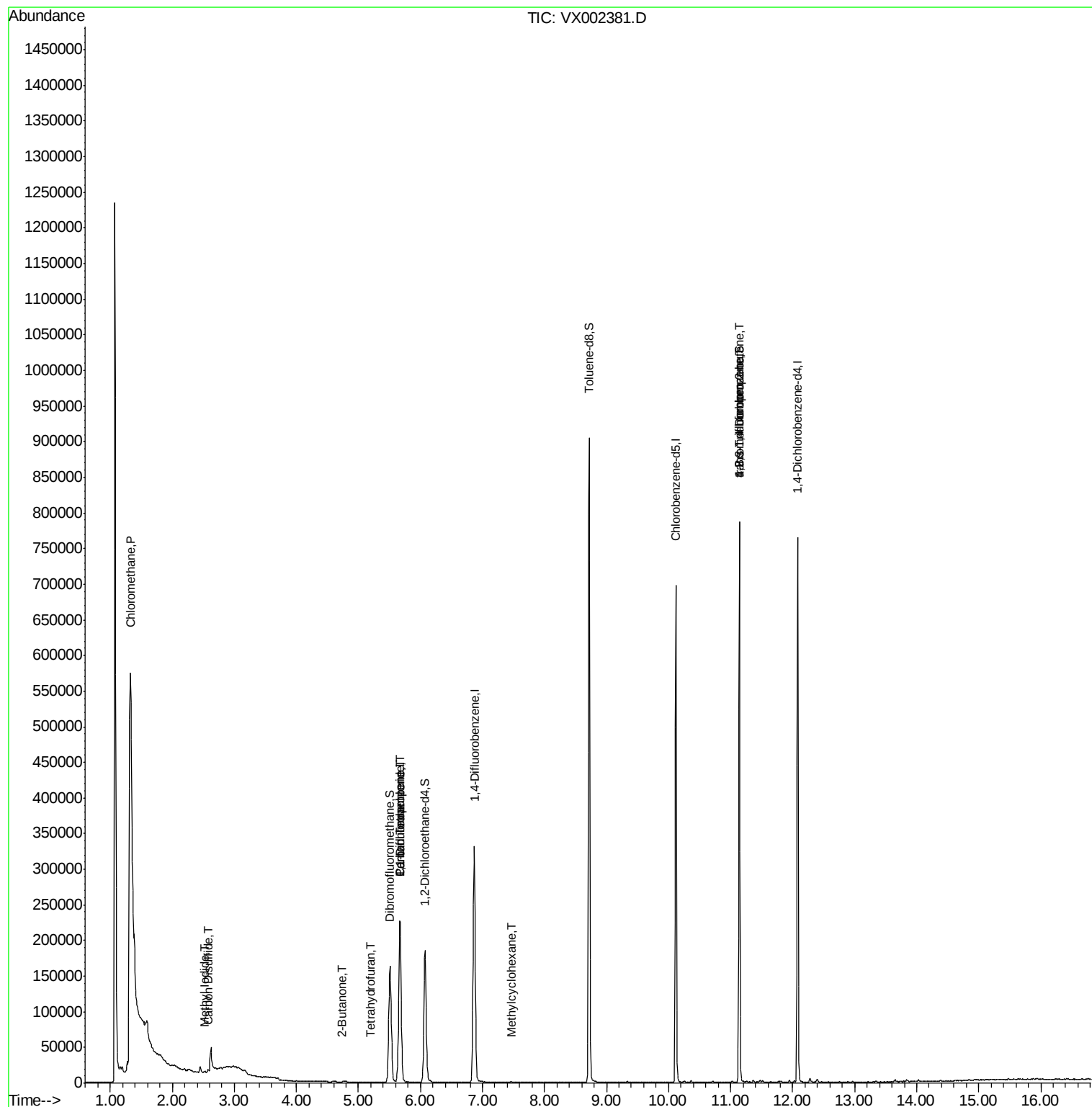
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	30067	8.90	ug/l	# 47
5) Bromomethane	1.62	94	148	Below	Cal	# 3
8) Diethyl Ether	2.20	74	722	Below	Cal	# 90
10) Methyl Iodide	2.52	142	2006	0.59	ug/l	# 84
11) Tert butyl alcohol	3.06	59	817	Below	Cal	# 63
13) Acrolein	2.28	56	75	Below	Cal	# 1
15) Acrylonitrile	3.16	53	773	Below	Cal	# 92
16) Acetone	2.45	43	10650	Below	Cal	# 94
17) Carbon Disulfide	2.57	76	6510	1.03	ug/l	# 99
18) Methyl Acetate	2.78	43	1433	Below	Cal	# 94
19) Methyl tert-butyl Ether	3.22	73	21	Below	Cal	# 72
20) Methylene Chloride	2.87	84	318	Below	Cal	# 74
22) Diisopropyl ether	3.86	45	215	Below	Cal	# 42
25) 2-Butanone	4.72	43	782	0.36	ug/l	# 93
28) Bromochloromethane	5.04	49	39	Below	Cal	# 13
29) Tetrahydrofuran	5.18	42	459	0.32	ug/l	# 51
36) 1,1-Dichloropropene	5.67	75	16014	4.63	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	20929	5.79	ug/l	# 15
39) Methylcyclohexane	7.48	83	304	0.33	ug/l	# 58
76) 1,2,3-Trichloropropane	11.14	75	96487	27.31	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	96487	95.73	ug/l	# 6

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampleId :

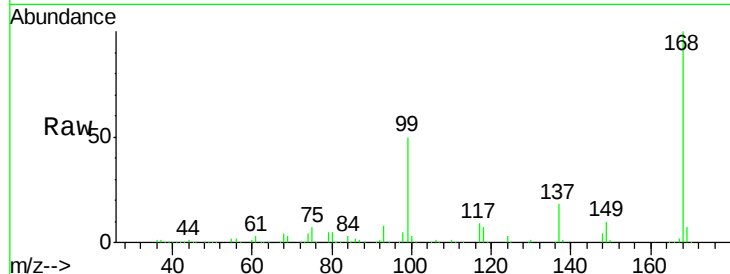
LF5-0067

Tot Ion:168 Resp: 224218

Ion Ratio Lower Upper

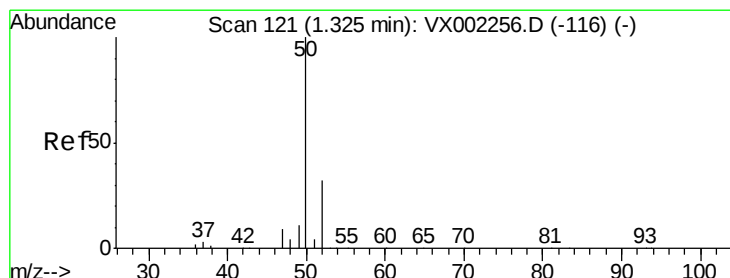
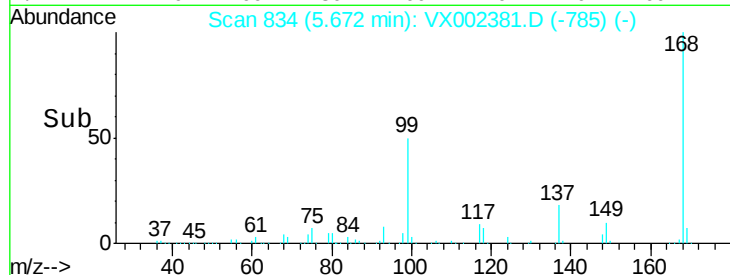
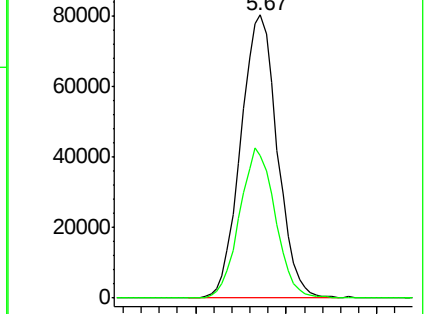
168 100

99 50.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 8.90 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002381.D

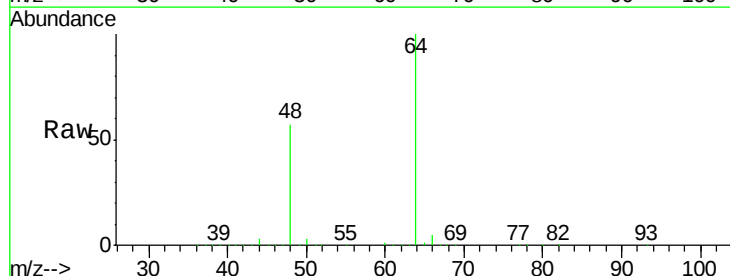
Acq: 07 Jun 2018 16:47

Tgt Ion: 50 Resp: 30067

Ion Ratio Lower Upper

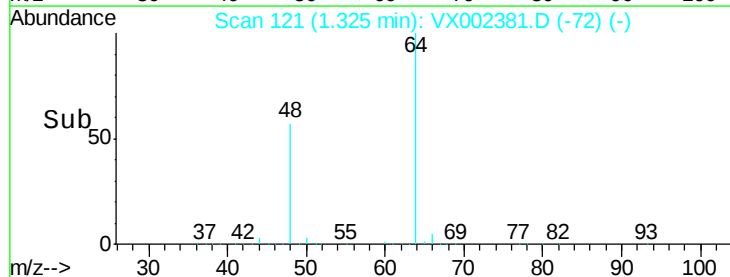
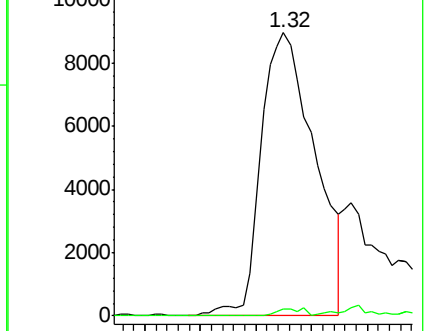
50 100

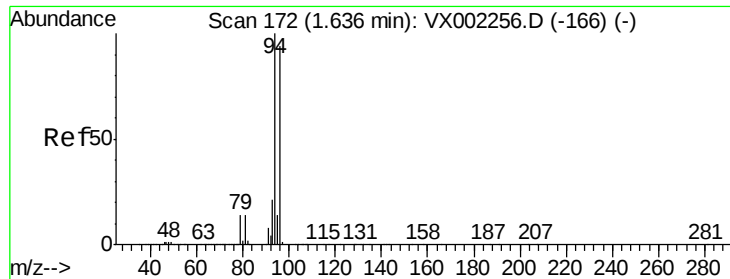
52 2.3 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.01 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampled :

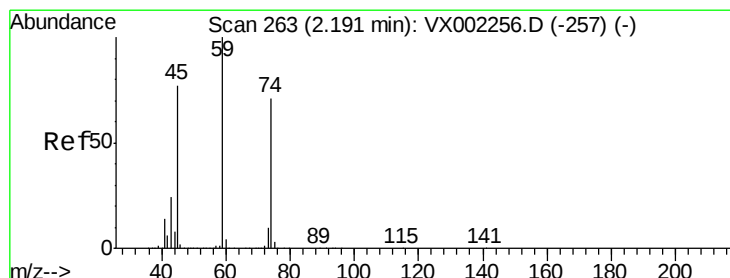
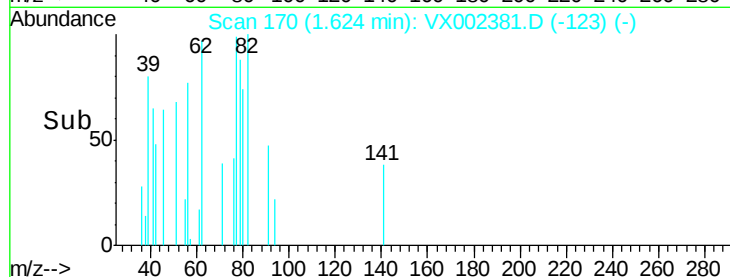
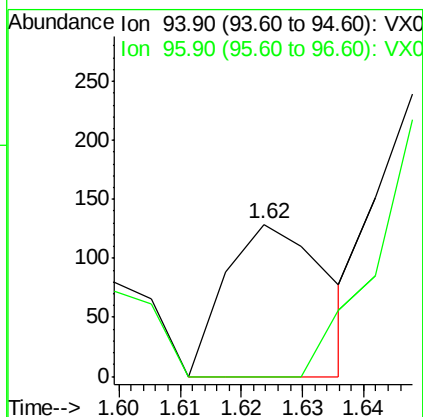
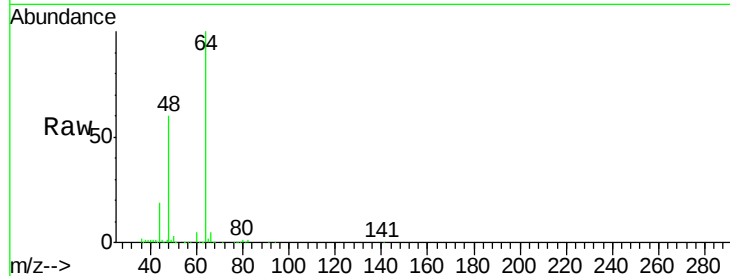
LF5-0067

Tot Ion: 94 Resp: 148

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002381.D

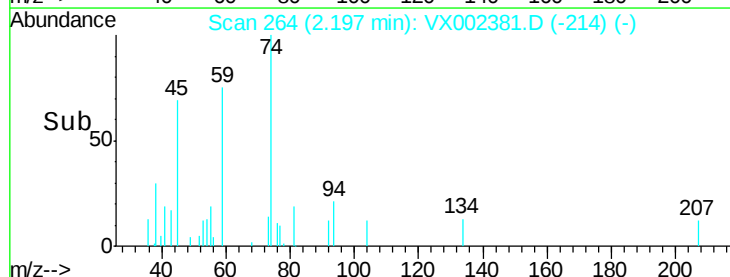
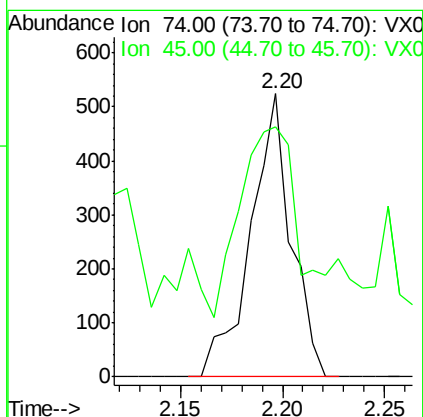
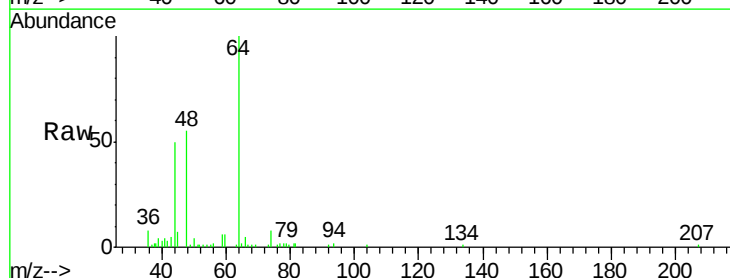
Acq: 07 Jun 2018 16:47

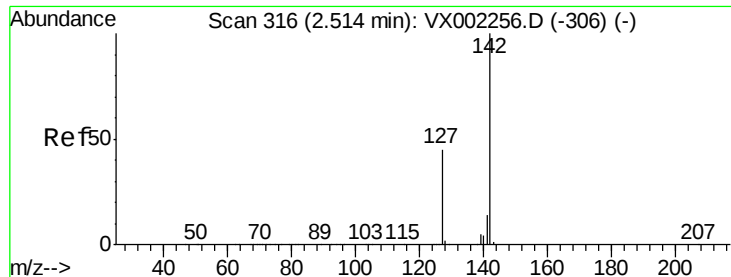
Tgt Ion: 74 Resp: 722

Ion Ratio Lower Upper

74 100

45 95.6 53.1 159.4

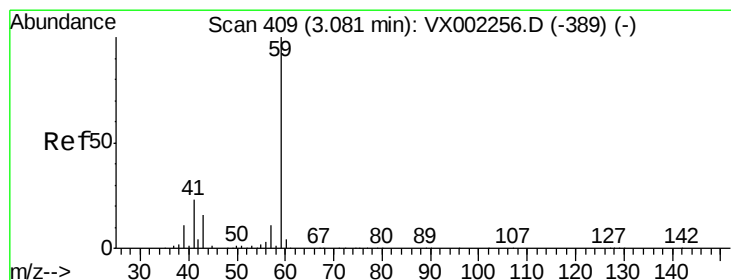
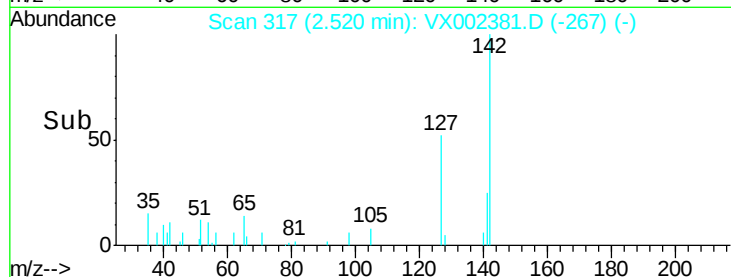
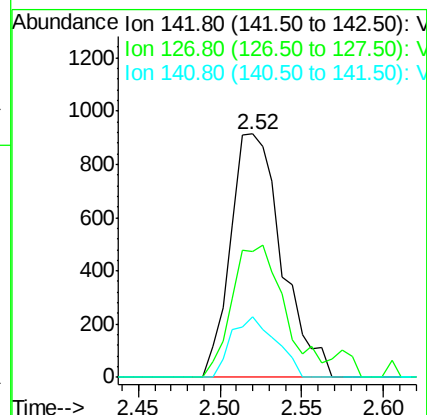
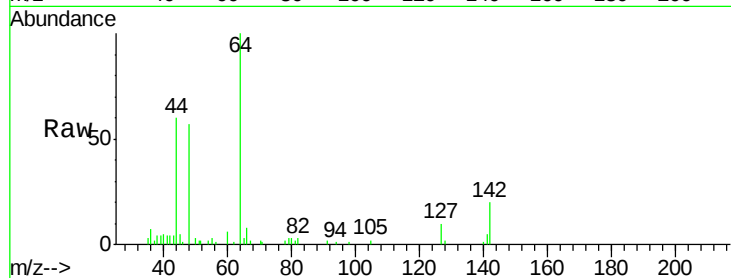




#10
Methyl Iodide
Concen: 0.59 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002381.D
Acq: 07 Jun 2018 16:47

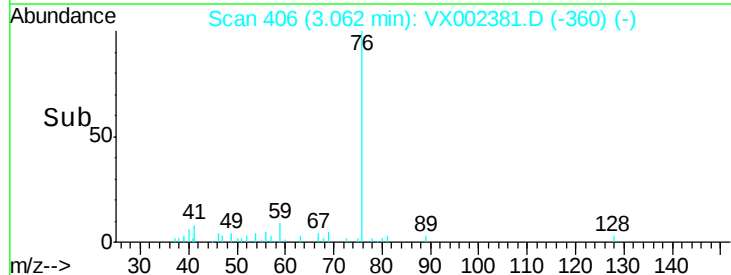
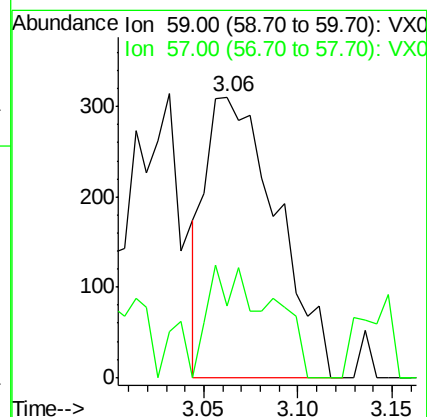
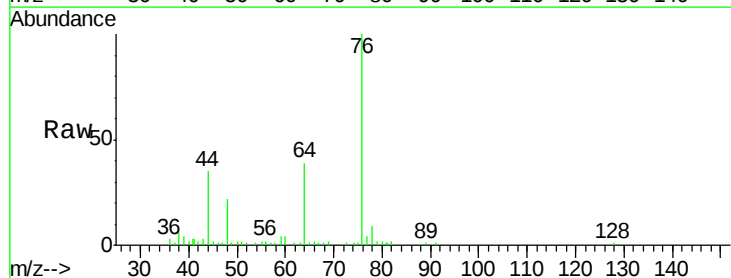
Instrument :
MSVOA_X
ClientSampled :
LF5-0067

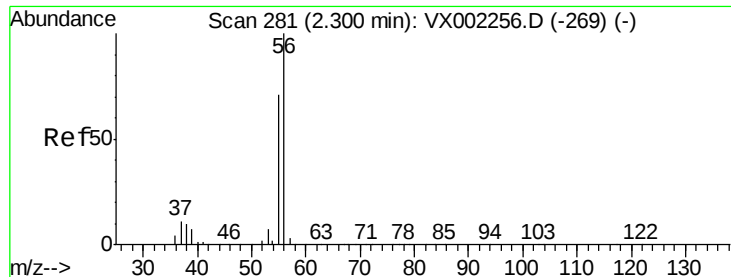
Tot Ion:142 Resp: 2006
Ion Ratio Lower Upper
142 100
127 55.7 36.6 55.0#
141 21.8 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.06 min Scan# 406
Delta R.T. -0.02 min
Lab File: VX002381.D
Acq: 07 Jun 2018 16:47

Tgt Ion: 59 Resp: 817
Ion Ratio Lower Upper
59 100
57 23.9 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 278

Delta R.T. -0.02 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampled :

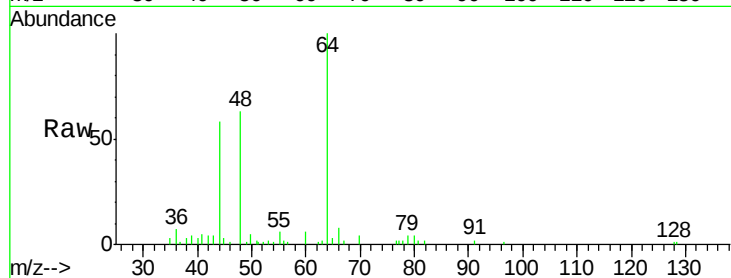
LF5-0067

Tot Ion: 56 Resp: 75

Ion Ratio Lower Upper

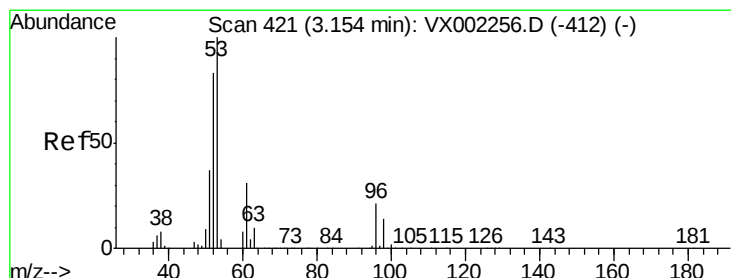
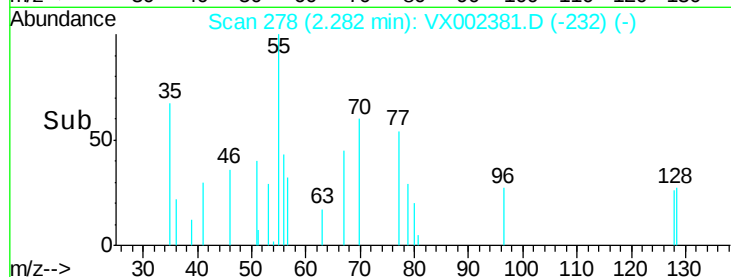
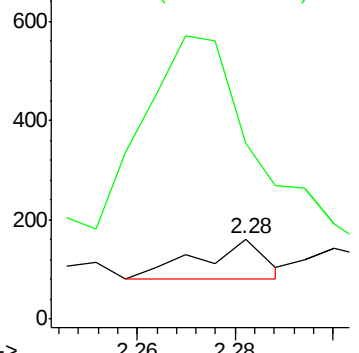
56 100

55 1528.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

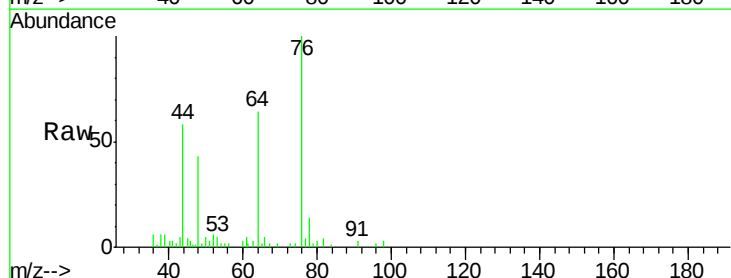
Tgt Ion: 53 Resp: 773

Ion Ratio Lower Upper

53 100

52 80.3 66.7 100.1

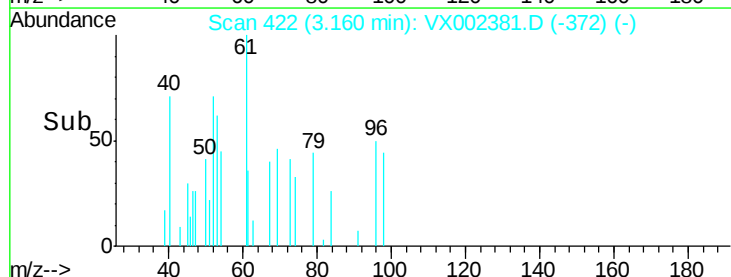
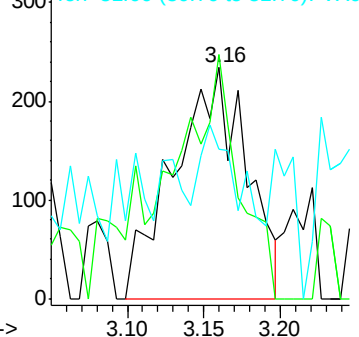
51 27.2 29.9 44.9#

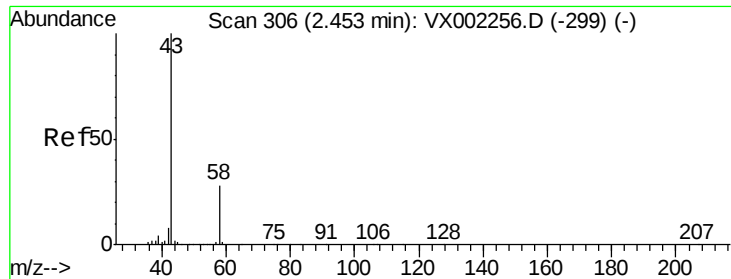


Abundance Ion 53.00 (52.70 to 53.70): VX0

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: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampleId :

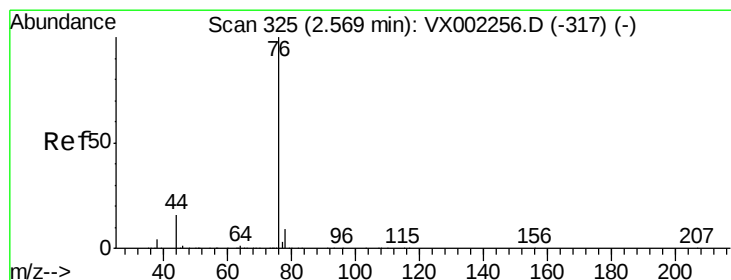
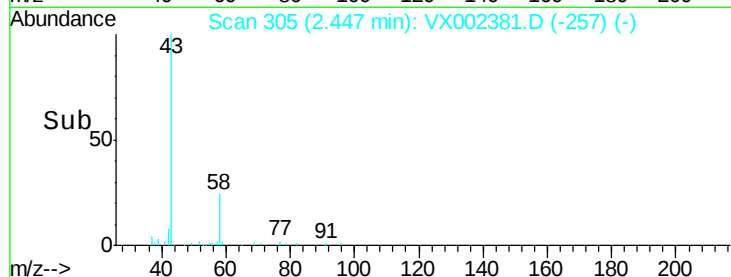
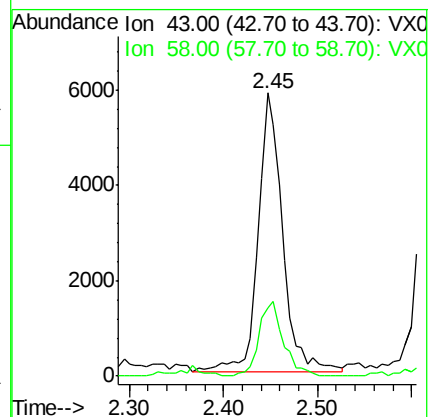
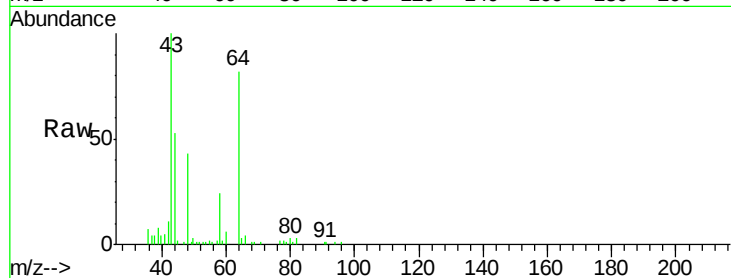
LF5-0067

Tot Ion: 43 Resp: 10650

Ion Ratio Lower Upper

43 100

58 24.5 22.1 33.1



#17

Carbon Disulfide

Concen: 1.03 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002381.D

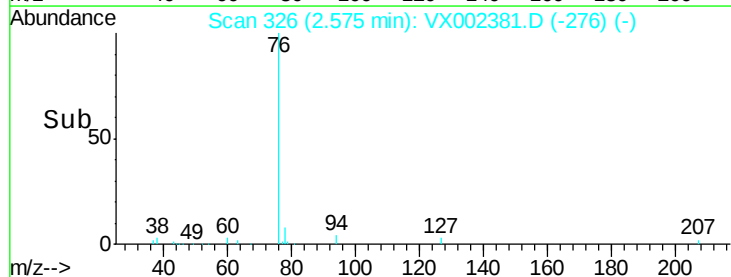
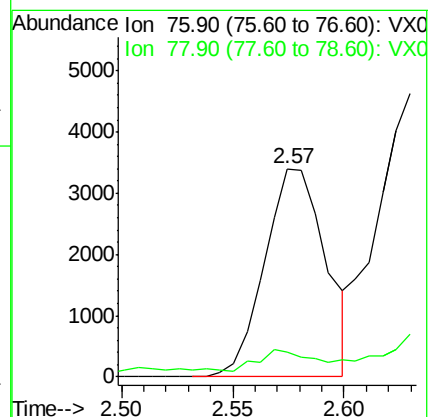
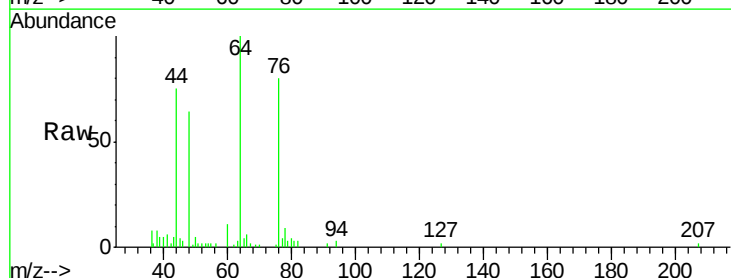
Acq: 07 Jun 2018 16:47

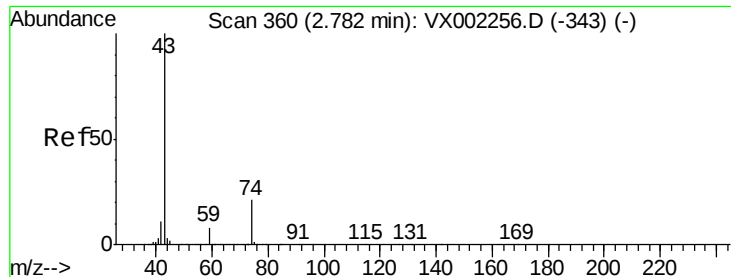
Tgt Ion: 76 Resp: 6510

Ion Ratio Lower Upper

76 100

78 8.3 6.9 10.3





#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampleId :

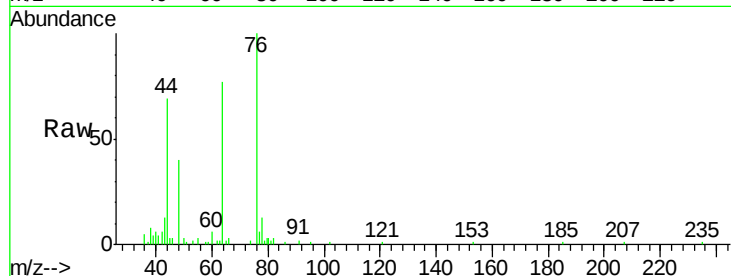
LF5-0067

Tot Ion: 43 Resp: 1433

Ion Ratio Lower Upper

43 100

74 23.9 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

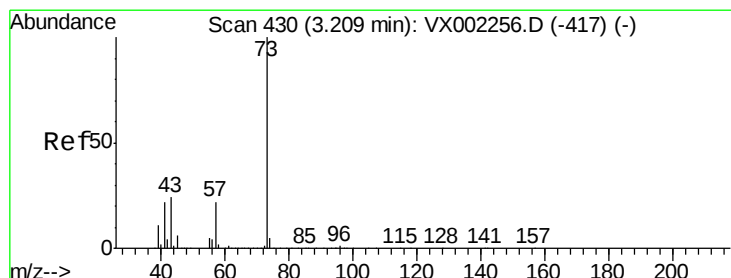
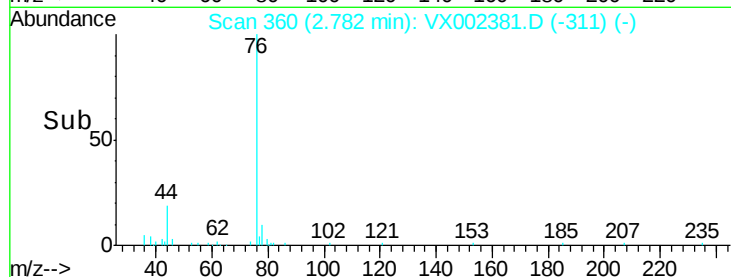
600

400

200

0

Time-->



#19

Methyl tert-butyl Ether

Concen: Below Cal

RT: 3.22 min Scan# 432

Delta R.T. 0.01 min

Lab File: VX002381.D

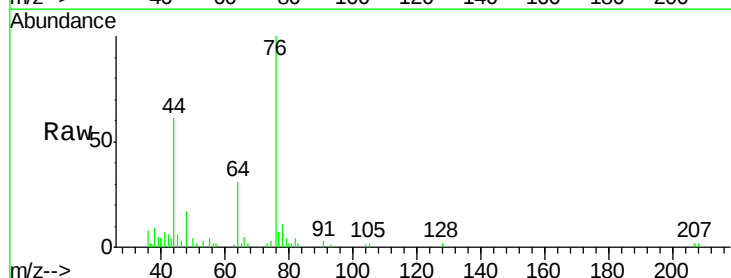
Acq: 07 Jun 2018 16:47

Tgt Ion: 73 Resp: 21

Ion Ratio Lower Upper

73 100

57 8.8 17.7 26.5#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

120

100

80

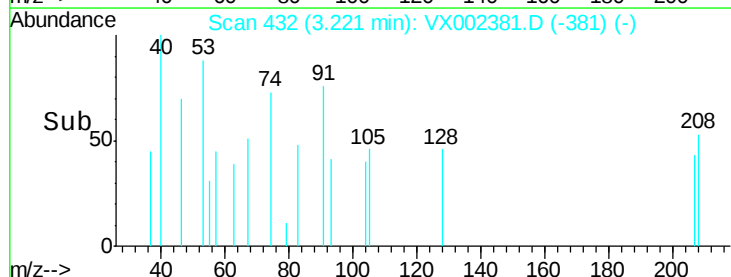
60

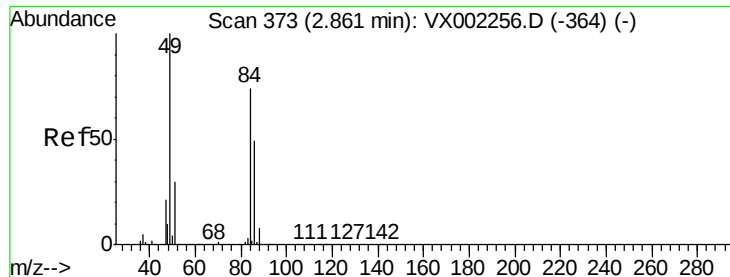
40

20

0

Time-->

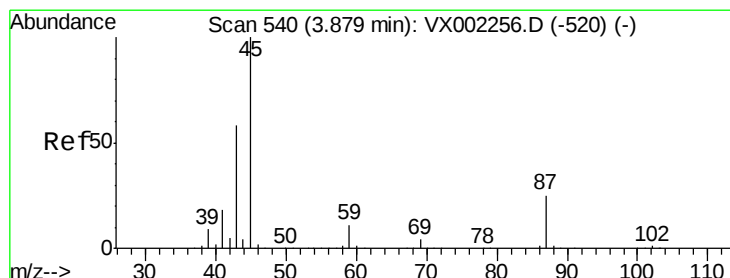
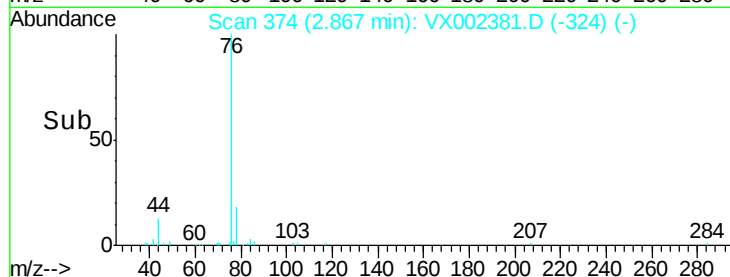
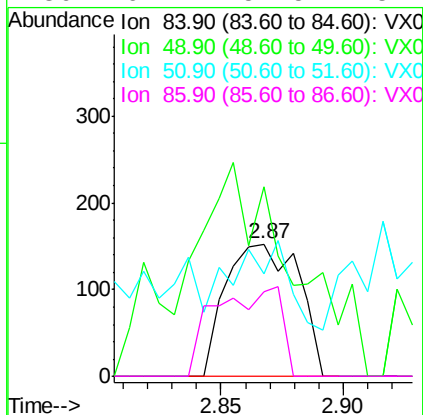
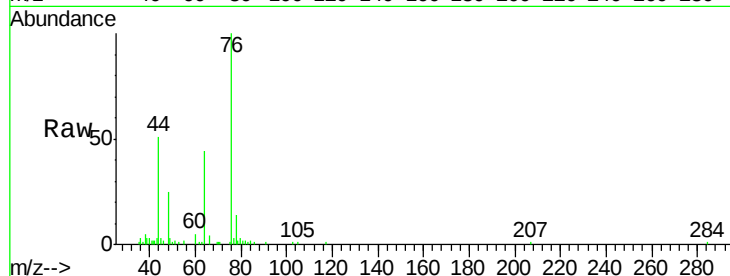




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002381.D
Acq: 07 Jun 2018 16:47

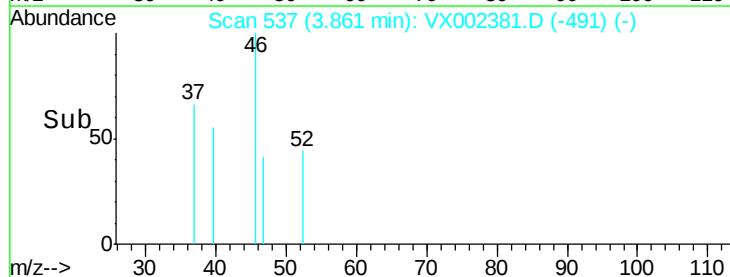
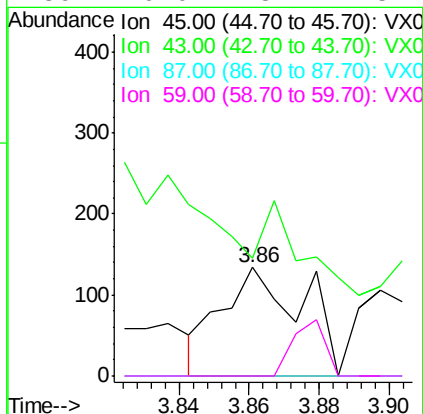
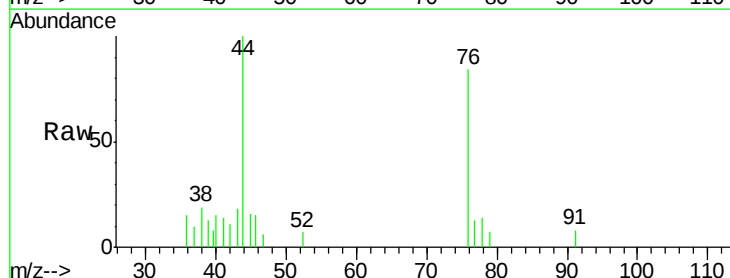
Instrument :
MSVOA_X
ClientSampleId :
LF5-0067

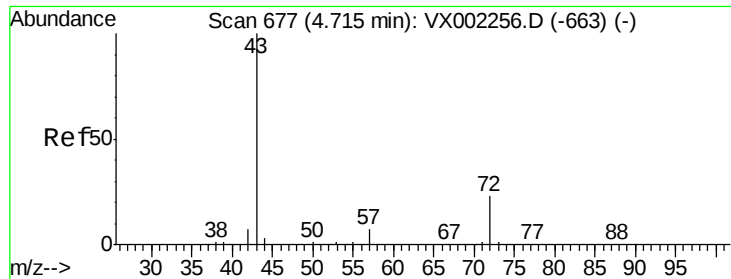
Tot Ion:	84	Resp:	318
Ion	Ratio	Lower	Upper
84	100		
49	103.9	107.8	161.6#
51	0.7	32.8	49.2#
86	64.1	52.5	78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.86 min Scan# 537
Delta R.T. -0.02 min
Lab File: VX002381.D
Acq: 07 Jun 2018 16:47

Tgt Ion:	45	Resp:	215
Ion	Ratio	Lower	Upper
45	100		
43	8.9	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#





#25

2-Butanone

Concen: 0.36 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampled :

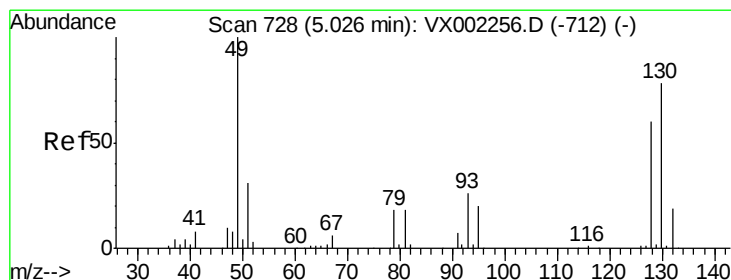
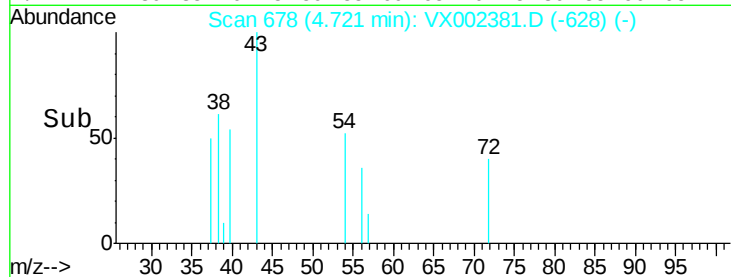
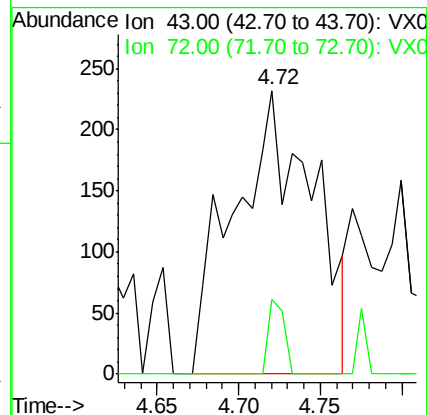
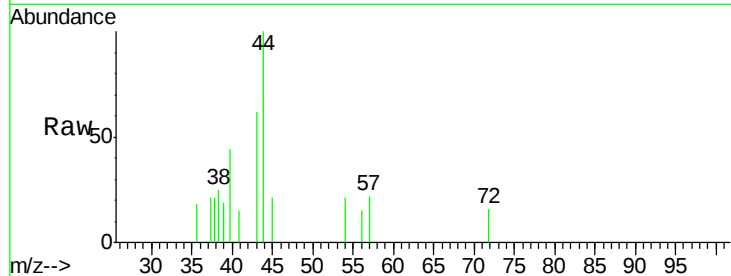
LF5-0067

Tot Ion: 43 Resp: 782

Ion Ratio Lower Upper

43 100

72 26.3 18.5 27.7



#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

Delta R.T. 0.01 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

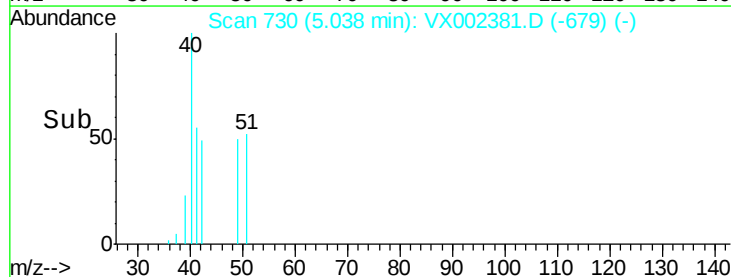
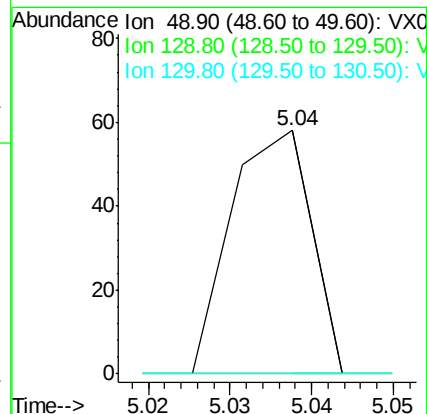
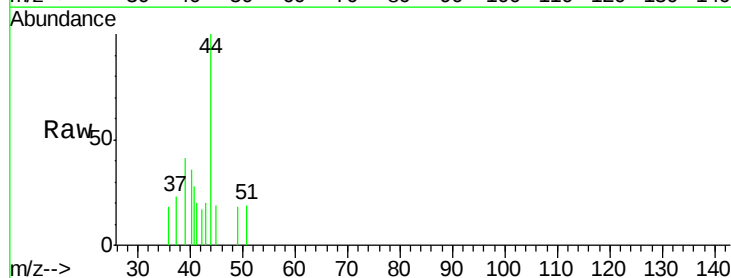
Tgt Ion: 49 Resp: 39

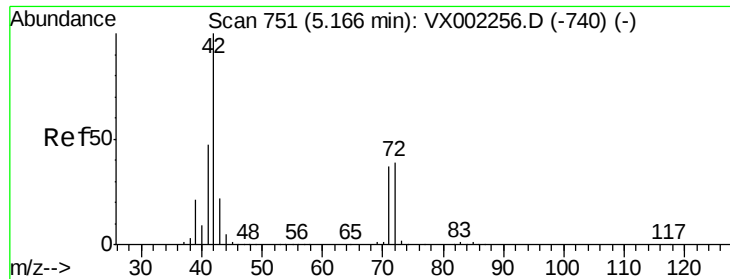
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#





#29

Tetrahydrofuran

Concen: 0.32 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampleId :

LF5-0067

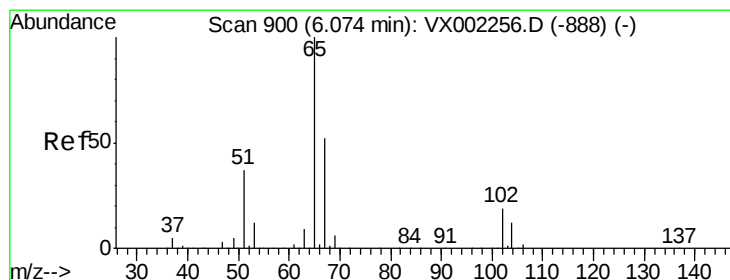
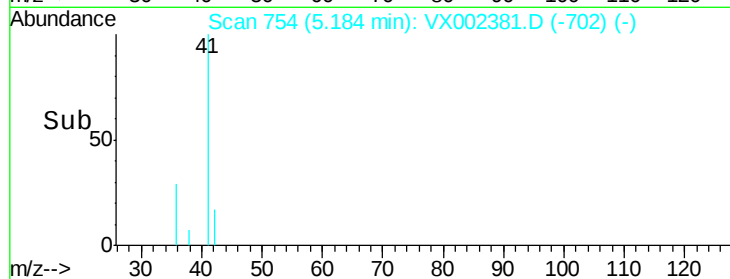
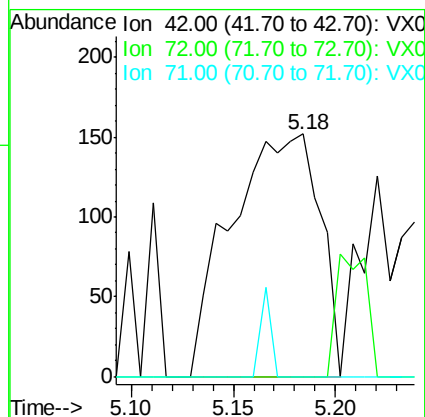
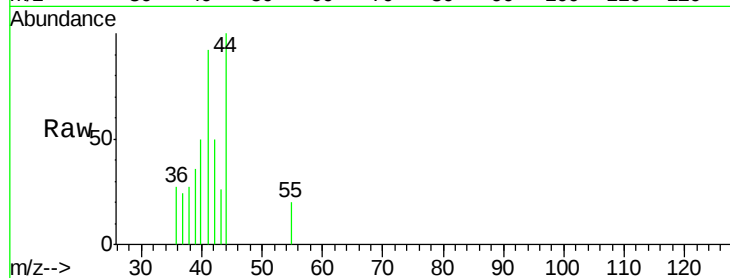
Tot Ion: 42 Resp: 459

Ion Ratio Lower Upper

42 100

72 17.4 32.0 48.0#

71 0.0 30.1 45.1#



#33

1,2-Dichloroethane-d4

Concen: 54.49 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002381.D

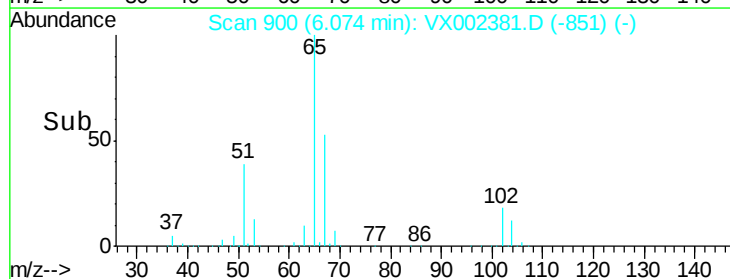
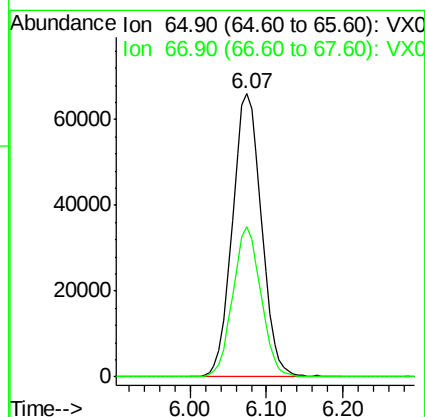
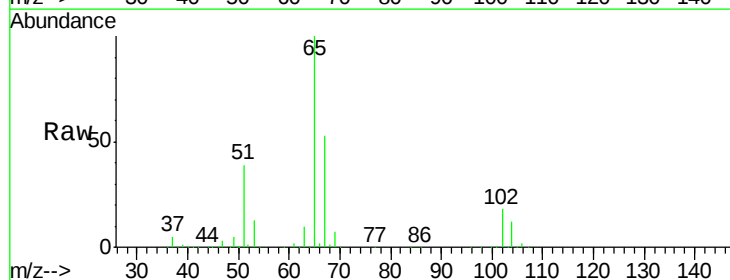
Acq: 07 Jun 2018 16:47

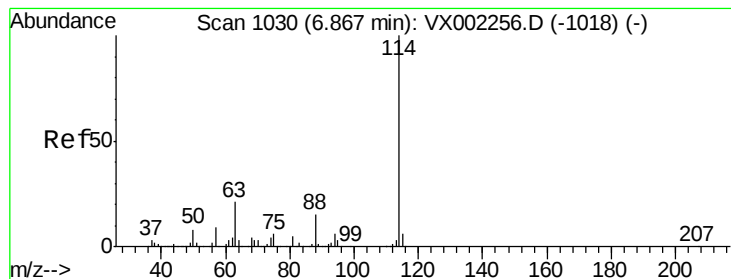
Tgt Ion: 65 Resp: 173703

Ion Ratio Lower Upper

65 100

67 51.4 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: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampleId :

LF5-0067

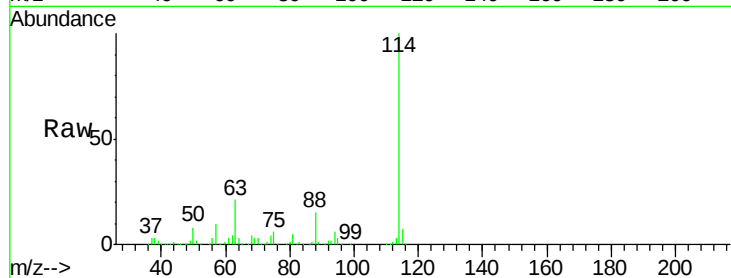
Tot Ion:114 Resp: 328701

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.4

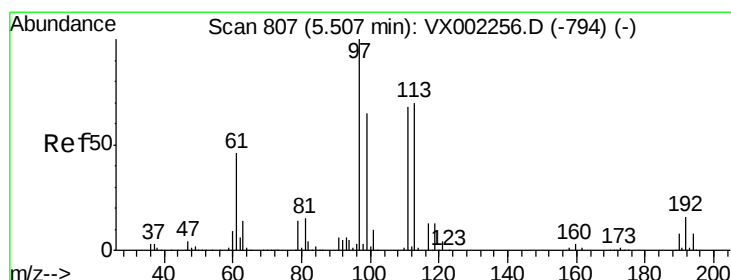
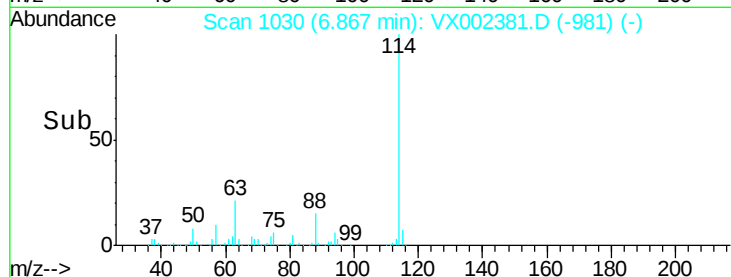
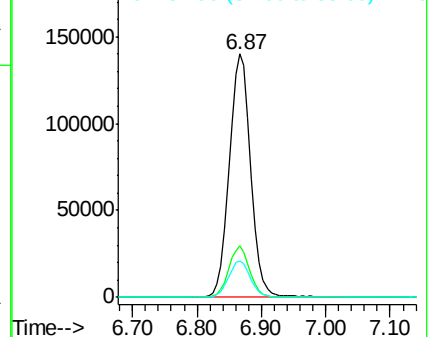
88 14.6 0.0 30.0



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: 51.53 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

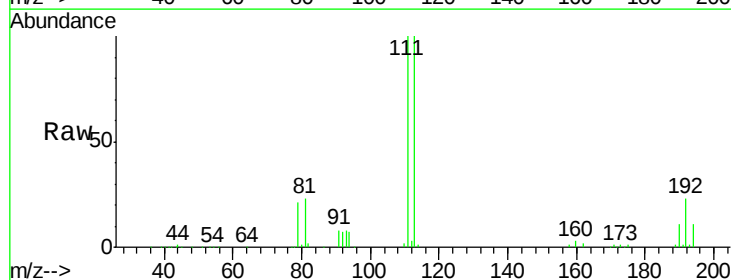
Tgt Ion:113 Resp: 133202

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

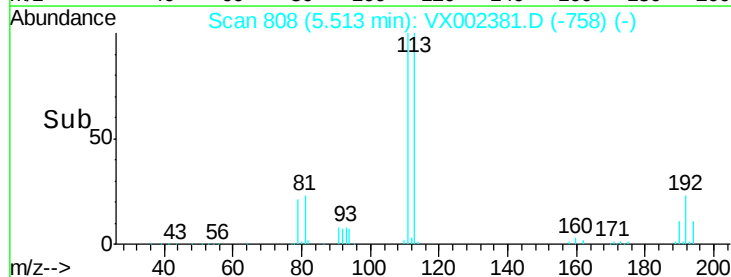
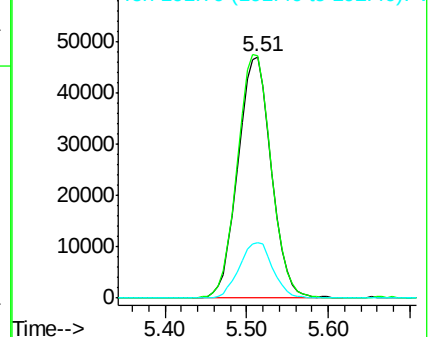
192 23.2 19.1 28.7

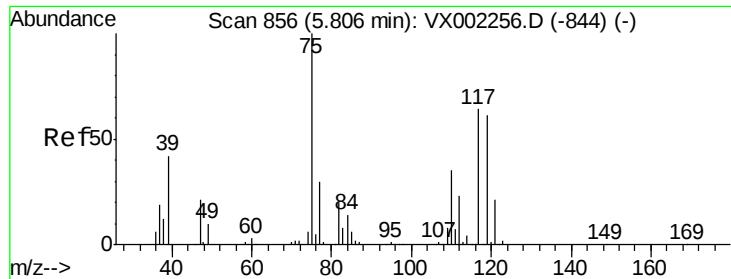


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

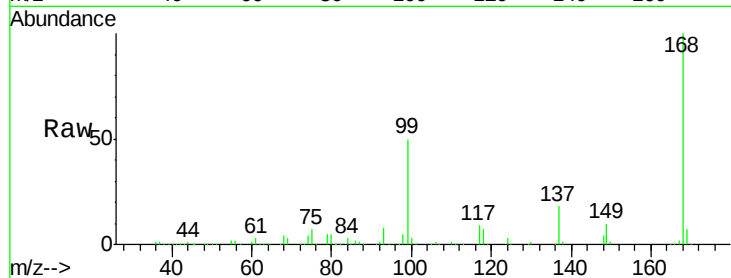




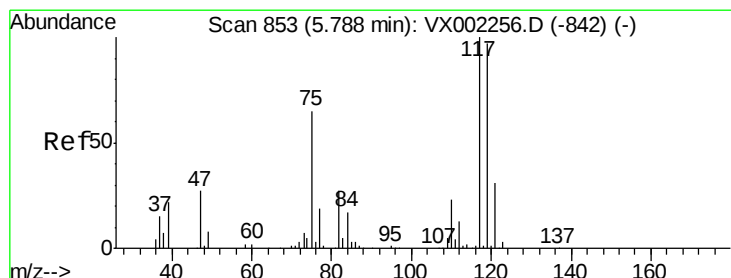
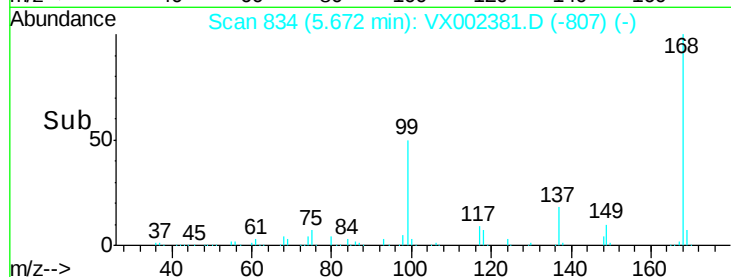
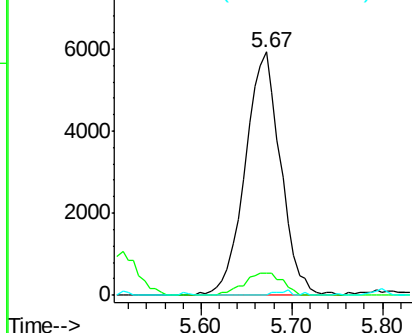
#36
 1,1-Dichloropropene
 Concen: 4.63 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002381.D
 Acq: 07 Jun 2018 16:47

Instrument :
 MSVOA_X
 ClientSampleId :
 LF5-0067

Tot Ion: 75 Resp: 16014
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.1 54.4#
 77 0.0 24.3 36.5#

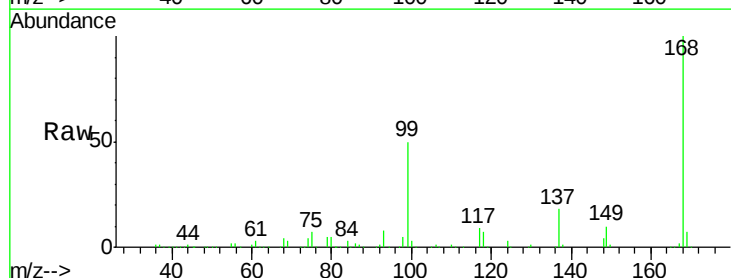


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

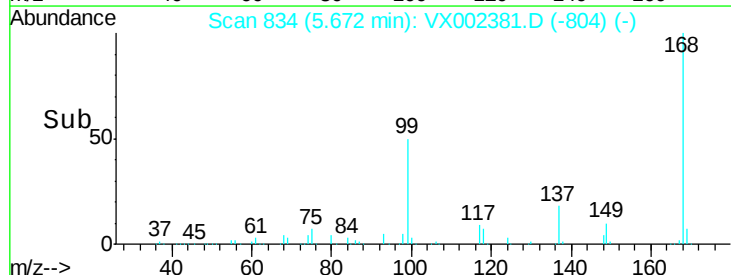
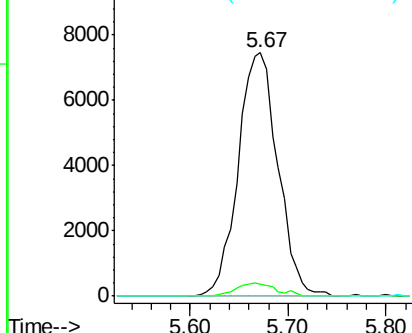


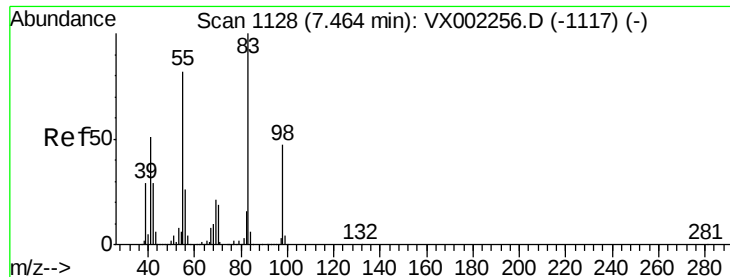
#38
 Carbon Tetrachloride
 Concen: 5.79 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002381.D
 Acq: 07 Jun 2018 16:47

Tgt Ion:117 Resp: 20929
 Ion Ratio Lower Upper
 117 100
 119 4.7 77.4 116.0#
 121 0.0 24.4 36.6#



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

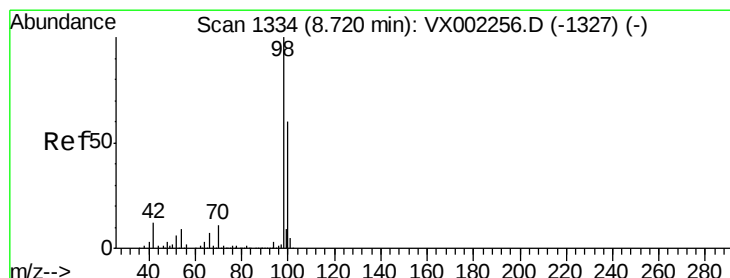
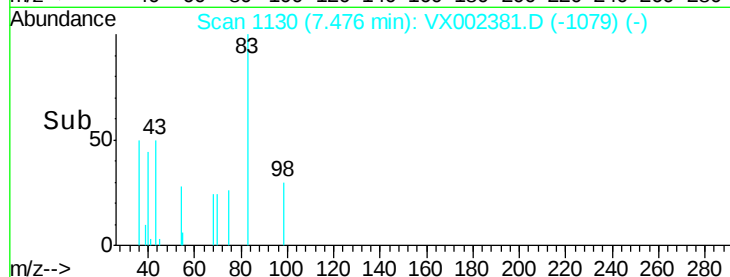
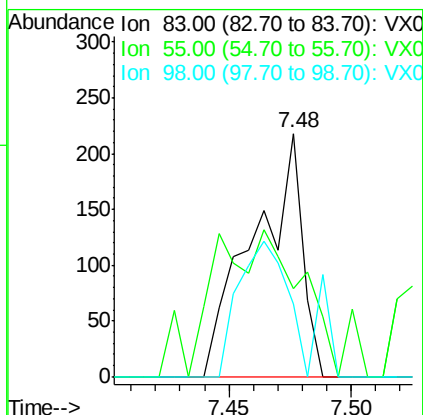
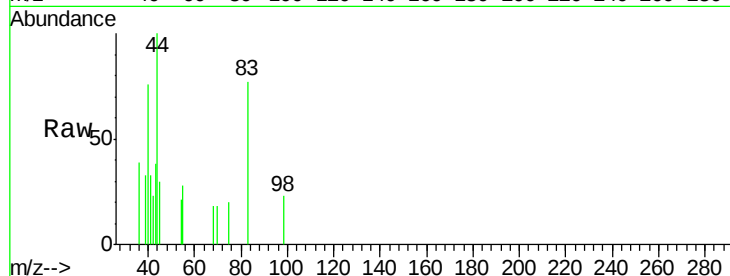




#39
Methvlcvclohexane
Concen: 0.33 ug/l
RT: 7.48 min Scan# 1130
Delta R.T. 0.01 min
Lab File: VX002381.D
Acq: 07 Jun 2018 16:47

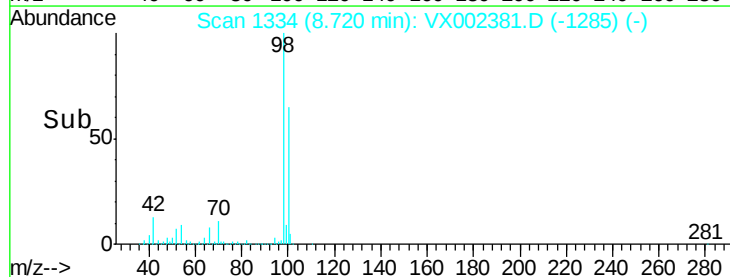
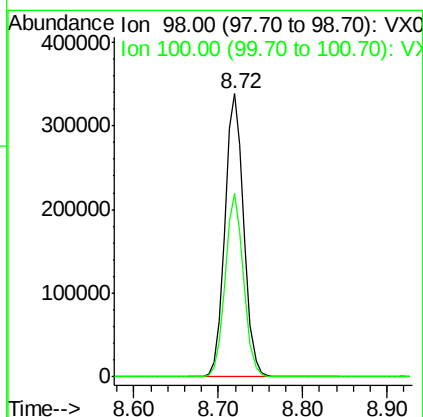
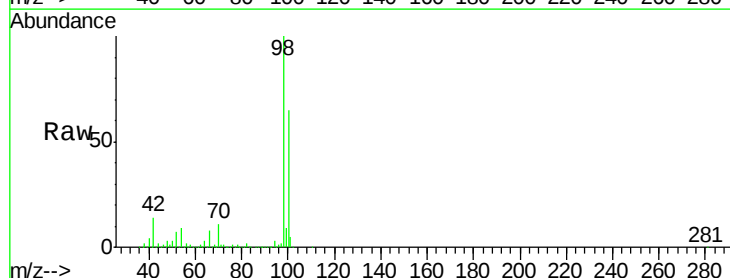
Instrument :
MSVOA_X
ClientSampled :
LF5-0067

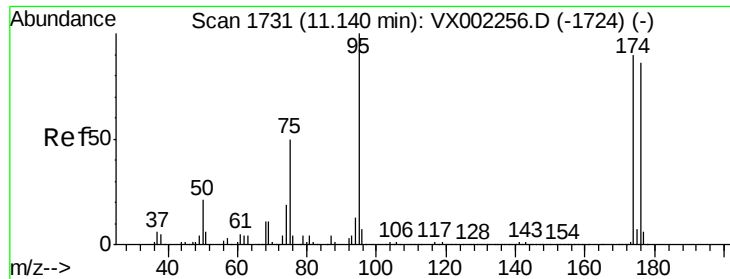
Tot Ion: 83 Resp: 304
Ion Ratio Lower Upper
83 100
55 36.2 65.4 98.0#
98 29.8 37.4 56.0#



#50
Toluene-d8
Concen: 52.52 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002381.D
Acq: 07 Jun 2018 16:47

Tgt Ion: 98 Resp: 520399
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 46.89 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampleId :

LF5-0067

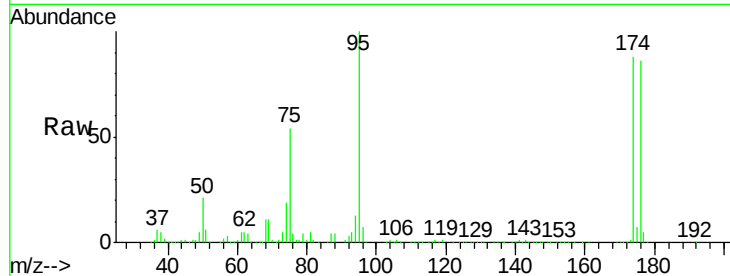
Tot Ion: 95 Resp: 179132

Ion Ratio Lower Upper

95 100

174 93.8 0.0 187.4

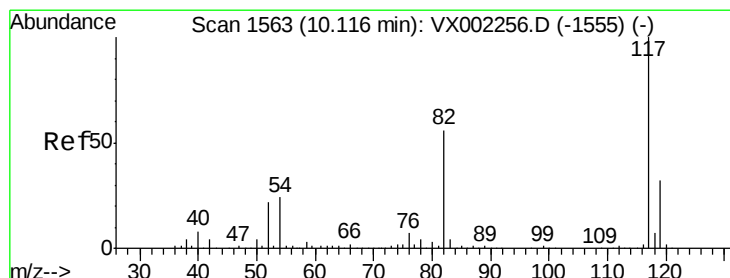
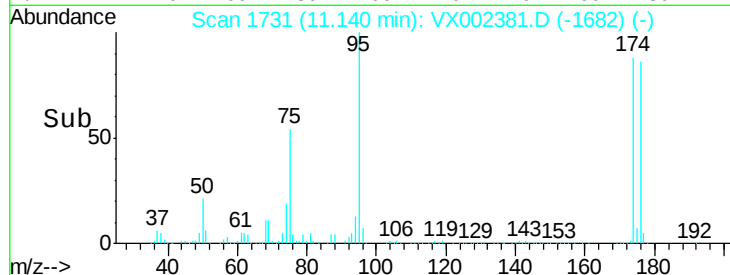
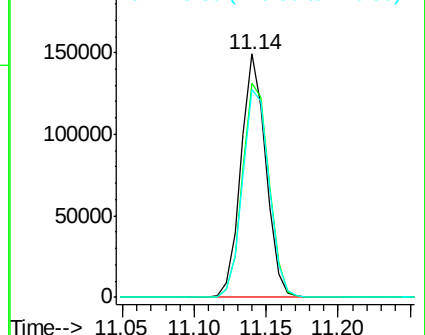
176 91.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002256.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002256.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002256.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

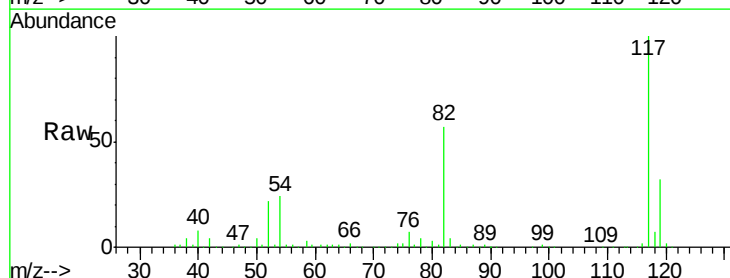
Tgt Ion: 117 Resp: 296201

Ion Ratio Lower Upper

117 100

82 57.0 45.0 67.4

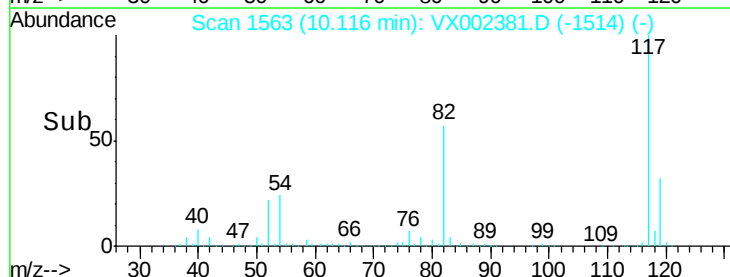
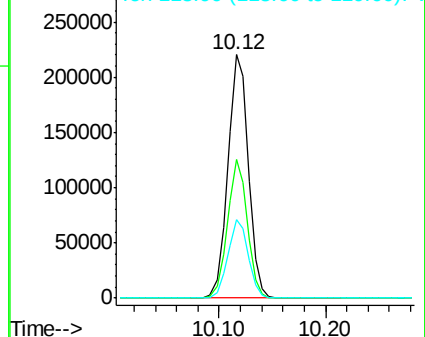
119 32.3 25.8 38.6

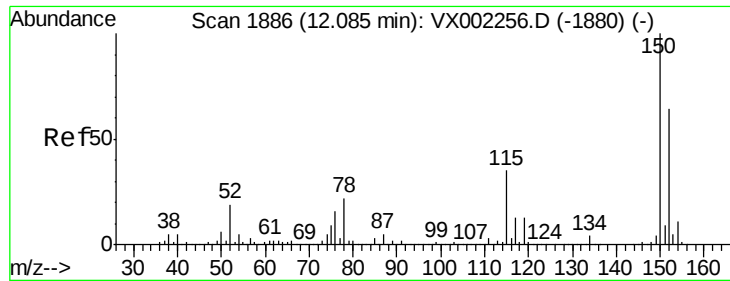


Abundance Ion 116.90 (116.60 to 117.60): VX002256.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX002256.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX002256.D (-1555) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampleId :

LF5-0067

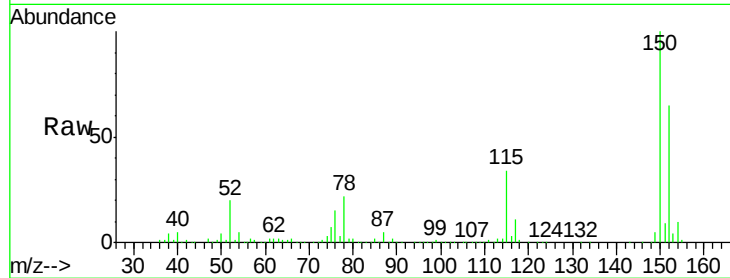
Tot Ion:152 Resp: 161016

Ion Ratio Lower Upper

152 100

115 55.3 40.1 120.2

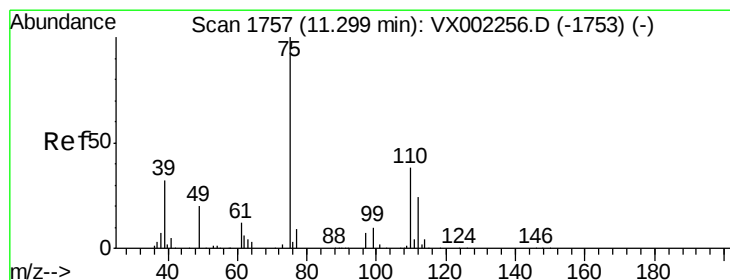
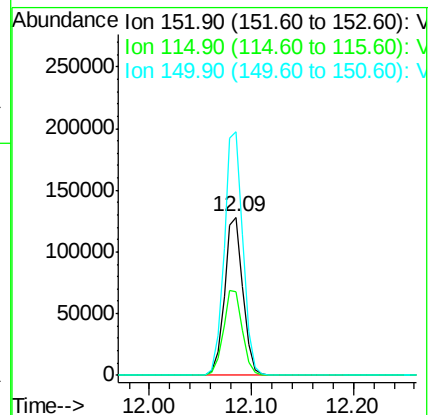
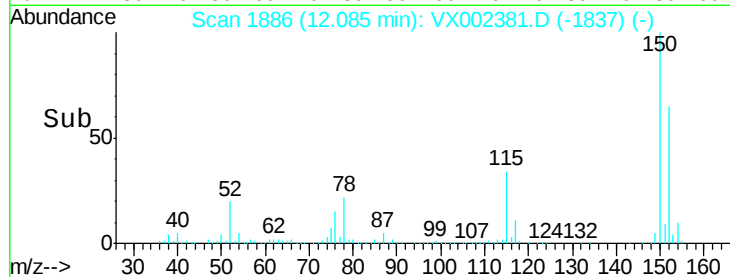
150 156.9 0.0 347.2



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: 27.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002381.D

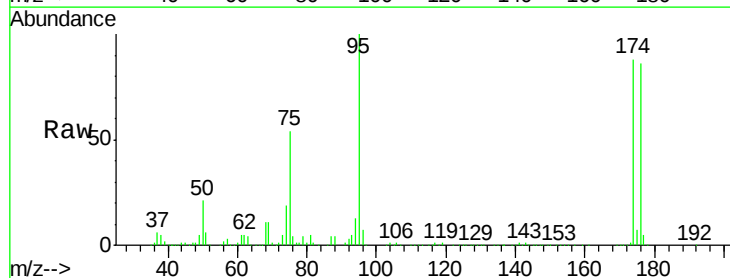
Acq: 07 Jun 2018 16:47

Tgt Ion: 75 Resp: 96487

Ion Ratio Lower Upper

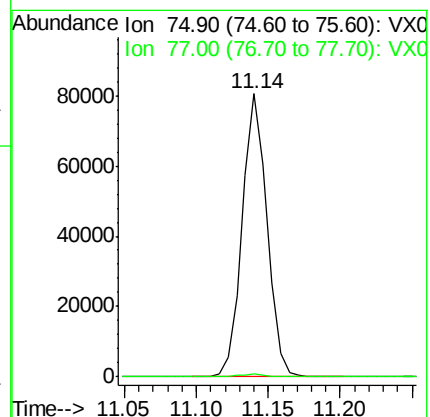
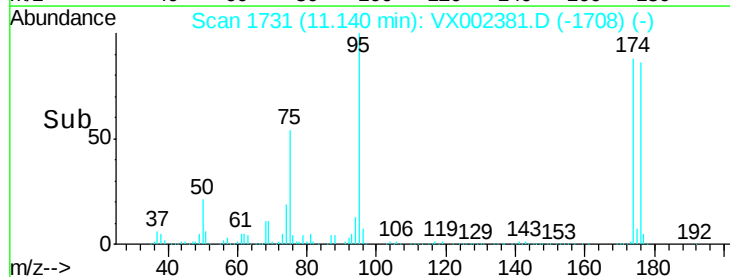
75 100

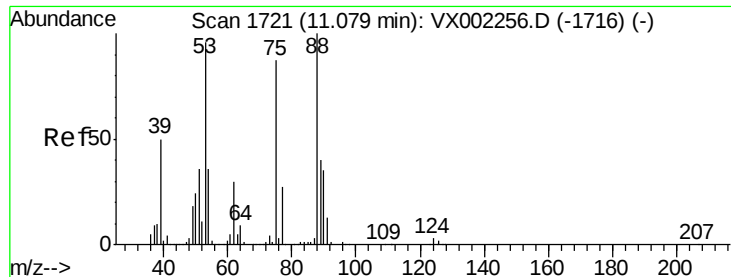
77 1.2 22.8 68.3#



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: 95.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002381.D

Acq: 07 Jun 2018 16:47

Instrument :

MSVOA_X

ClientSampleId :

LF5-0067

Tot Ion: 75 Resp: 96487

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#

