

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060718\
 Data File : VX002385.D
 Acq On : 07 Jun 2018 18:34
 Operator : JC/MD
 Sample : J3340-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF5-0069

Quant Time: Jun 08 01:47:23 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	231669	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	339055	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	307687	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	169267	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	176718	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	
35) Dibromofluoromethane	5.51	113	133441	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
50) Toluene-d8	8.72	98	525015	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
62) 4-Bromofluorobenzene	11.14	95	180427	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	

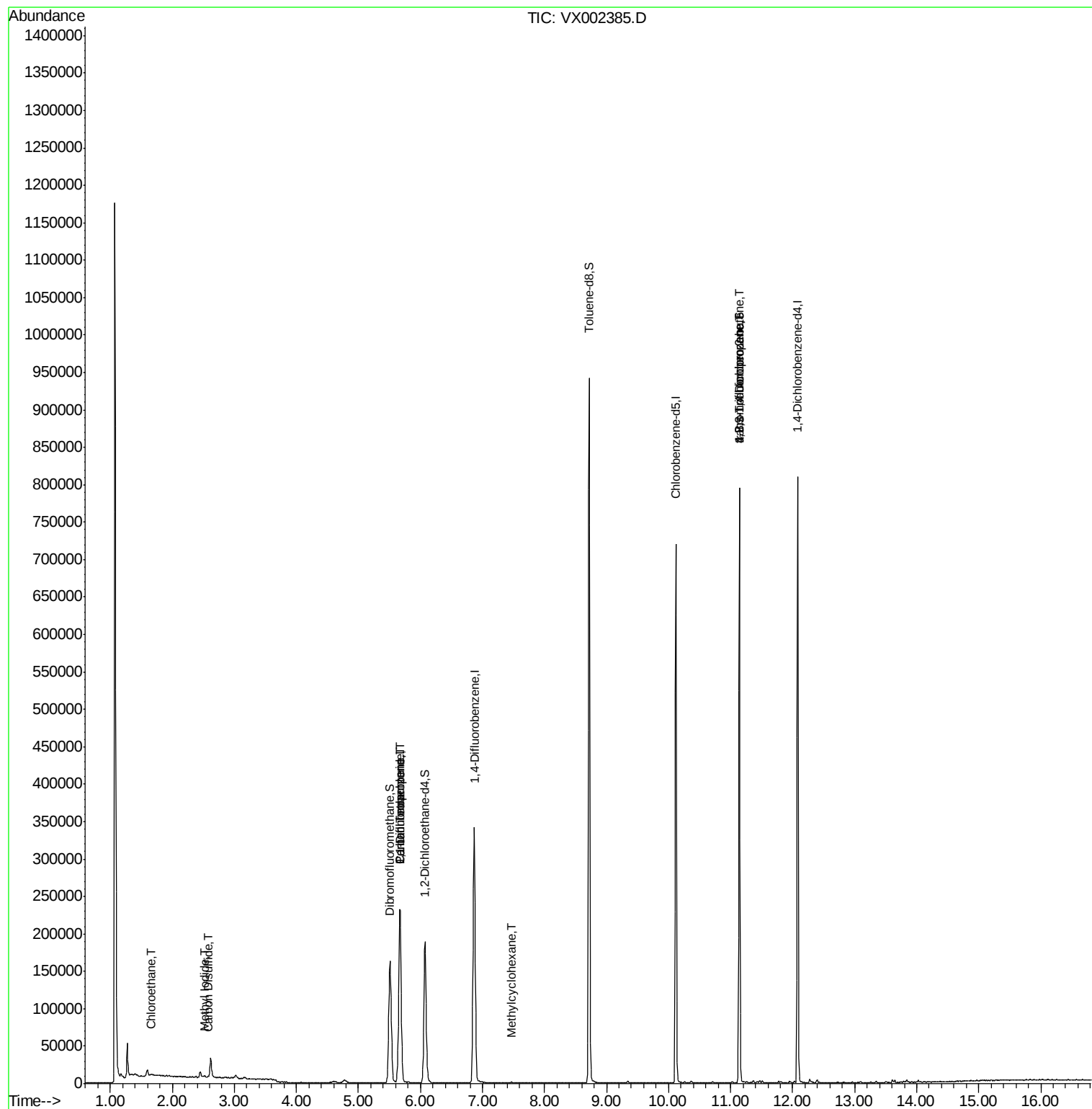
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	726	Below Cal	#	76
5) Bromomethane	1.66	94	1314	Below Cal	#	79
6) Chloroethane	1.66	64	523	0.27	ug/l	57
8) Diethyl Ether	2.19	74	120	Below Cal	#	1
10) Methyl Iodide	2.52	142	3338	0.95	ug/l	92
11) Tert butyl alcohol	3.03	59	2838	Below Cal	#	84
13) Acrolein	2.30	56	487	Below Cal	#	36
15) Acrylonitrile	3.15	53	744	Below Cal	#	62
16) Acetone	2.45	43	8553	Below Cal	#	96
17) Carbon Disulfide	2.57	76	1689	0.26	ug/l	80
18) Methyl Acetate	2.79	43	291	Below Cal	#	37
19) Methyl tert-butyl Ether	3.20	73	59	Below Cal	#	1
20) Methylene Chloride	2.86	84	601	Below Cal	#	82
22) Diisopropyl ether	3.87	45	149	Below Cal	#	35
28) Bromochloromethane	5.02	49	78	Below Cal	#	13
36) 1,1-Dichloropropene	5.67	75	16835	4.72	ug/l	50
38) Carbon Tetrachloride	5.67	117	21374	5.73	ug/l	15
39) Methylcyclohexane	7.46	83	273	0.32	ug/l	55
76) 1,2,3-Trichloropropane	11.14	75	97605	26.28	ug/l	32
81) trans-1,4-Dichloro-2-buten	11.14	75	97605	92.12	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: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

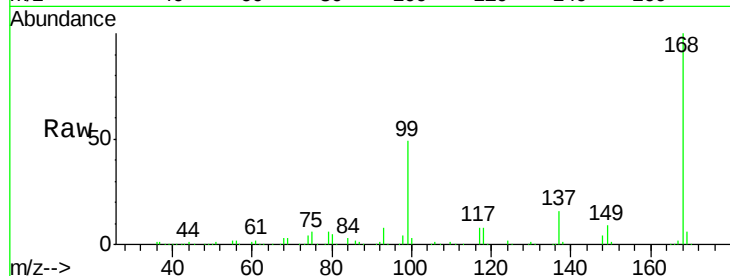
LF5-0069

Tot Ion:168 Resp: 231669

Ion Ratio Lower Upper

168 100

99 48.7 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

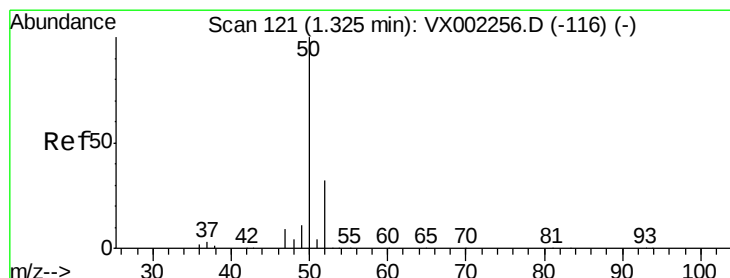
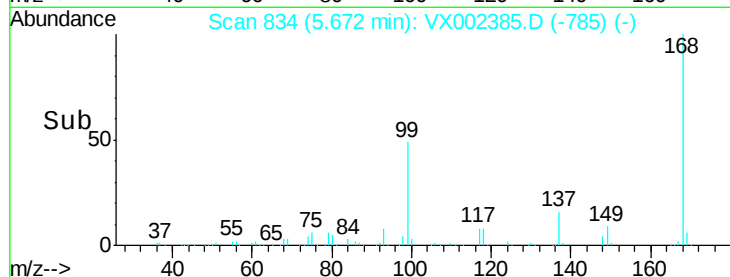
Time-->

5.50

5.60

5.70

5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002385.D

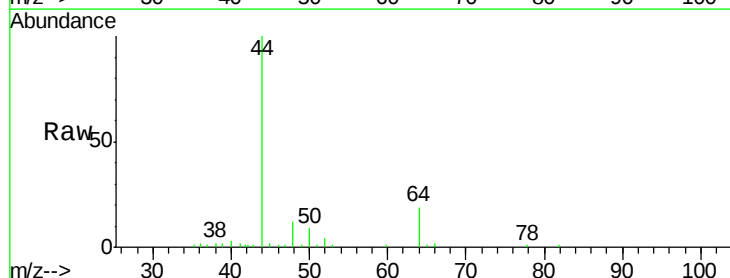
Acq: 07 Jun 2018 18:34

Tgt Ion: 50 Resp: 726

Ion Ratio Lower Upper

50 100

52 45.7 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

400

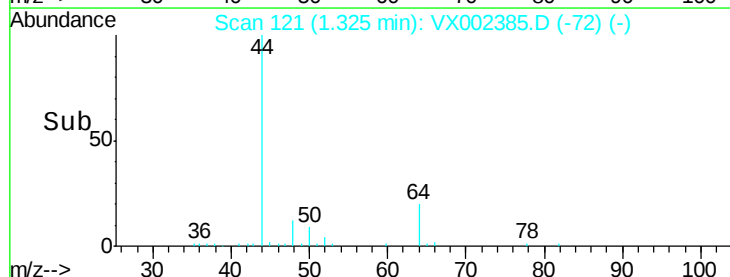
200

0

Time-->

1.30

1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

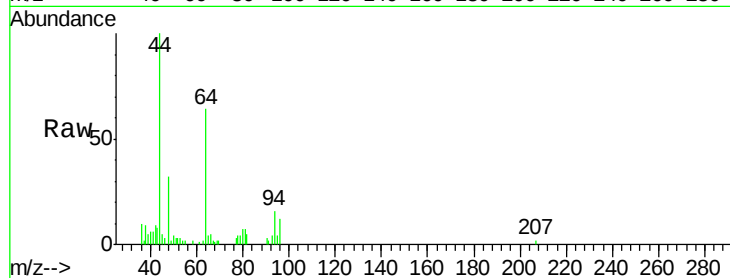
LF5-0069

Tot Ion: 94 Resp: 1314

Ion Ratio Lower Upper

94 100

96 73.2 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

600

500

400

300

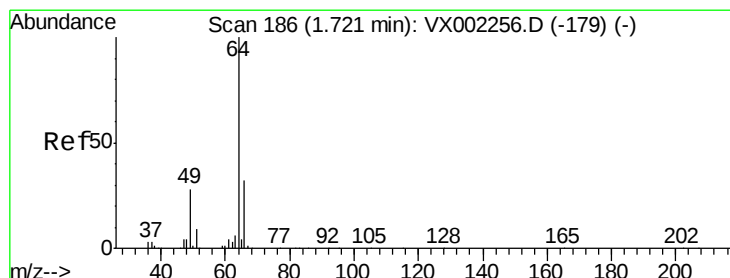
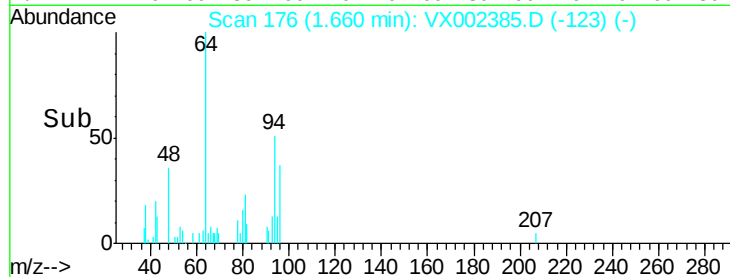
200

100

0

Time-->

1.60 1.65 1.70



#6

Chloroethane

Concen: 0.27 ug/l

RT: 1.66 min Scan# 176

Delta R.T. -0.06 min

Lab File: VX002385.D

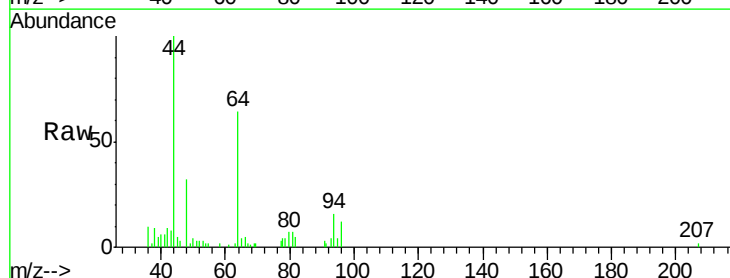
Acq: 07 Jun 2018 18:34

Tgt Ion: 64 Resp: 523

Ion Ratio Lower Upper

64 100

66 8.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.66

2500

2000

1500

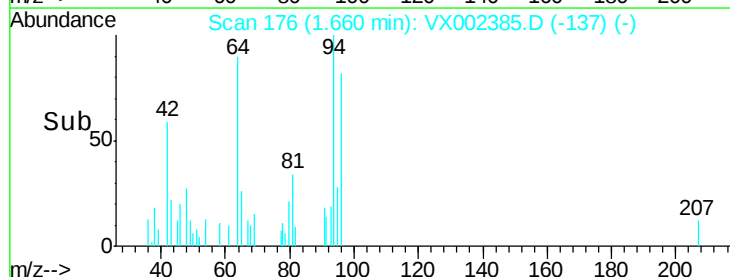
1000

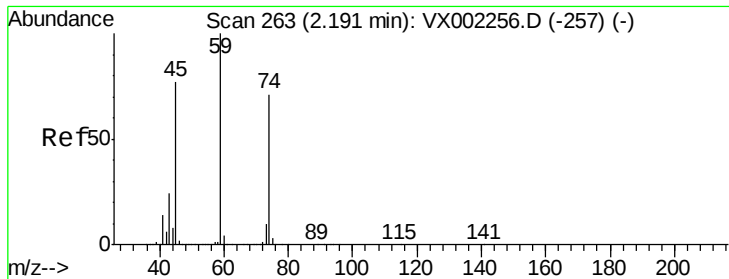
500

0

Time-->

1.64 1.66 1.68





#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

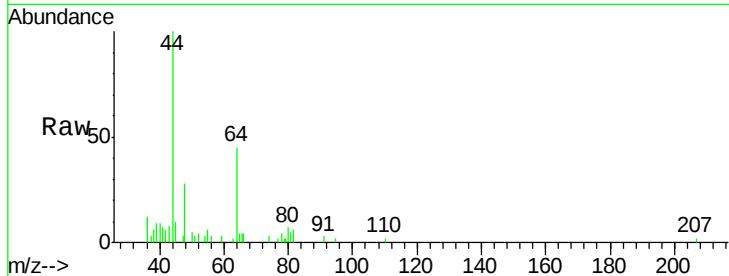
LF5-0069

Tot Ion: 74 Resp: 120

Ion Ratio Lower Upper

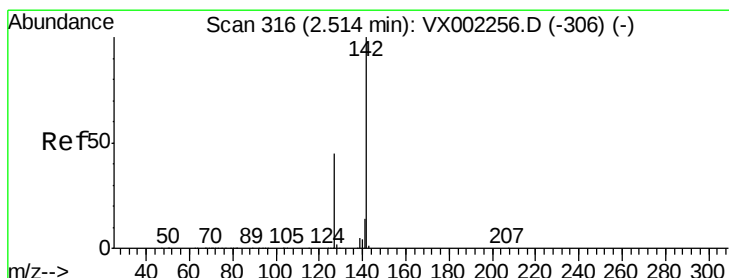
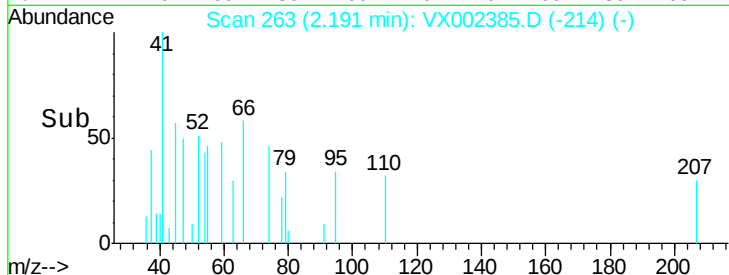
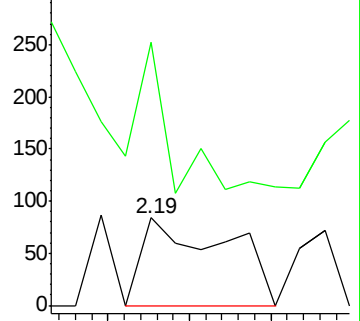
74 100

45 0.0 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: 0.95 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

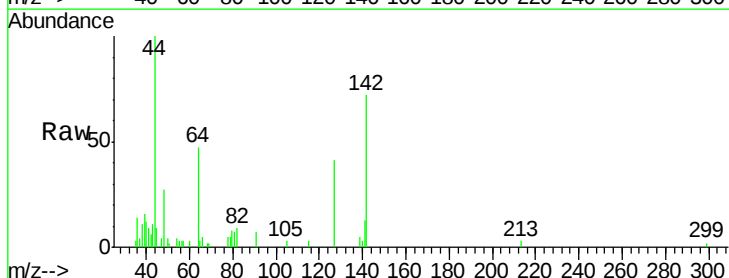
Tgt Ion: 142 Resp: 3338

Ion Ratio Lower Upper

142 100

127 50.9 36.6 55.0

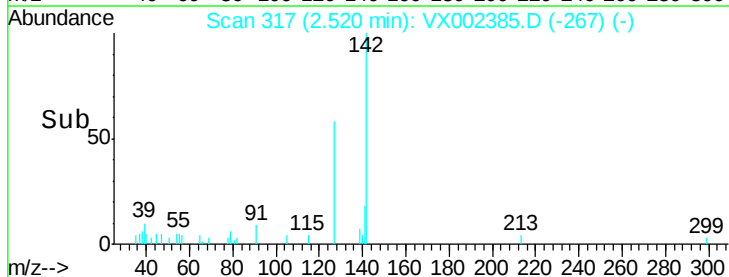
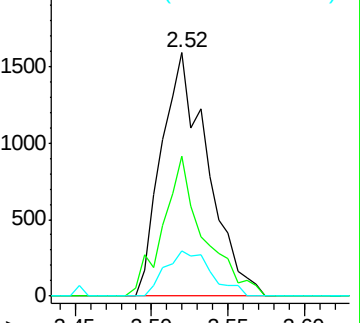
141 18.2 11.3 16.9#

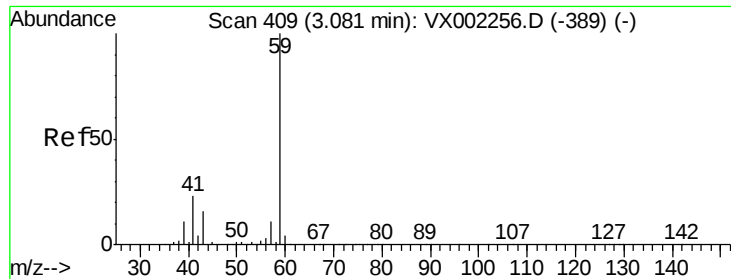


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

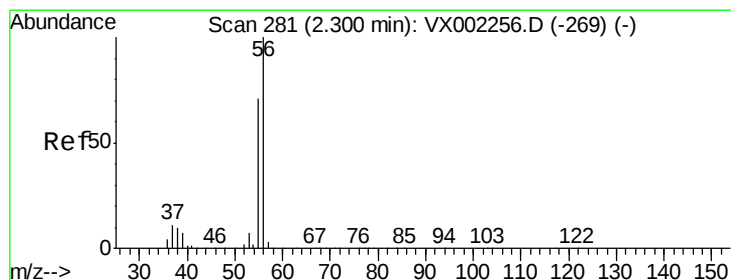
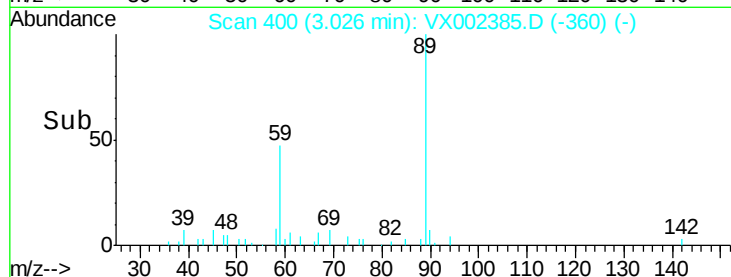
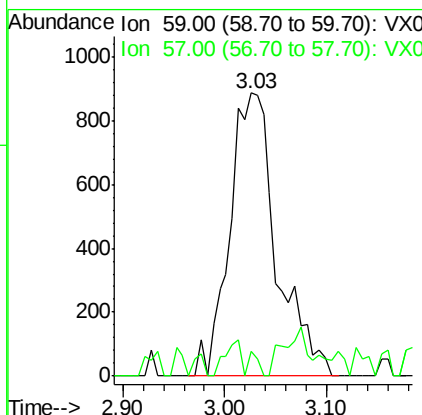
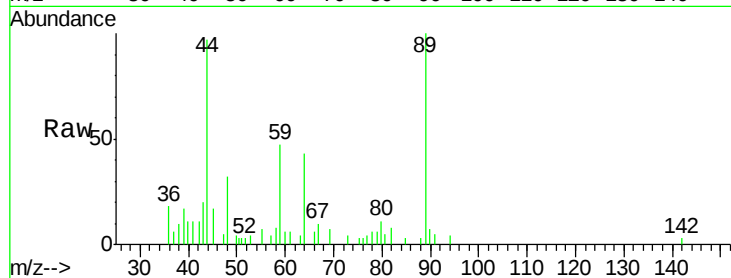




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

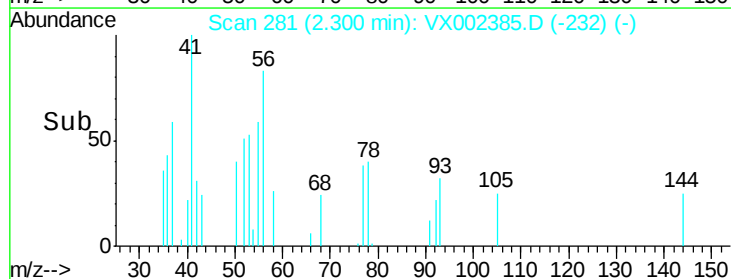
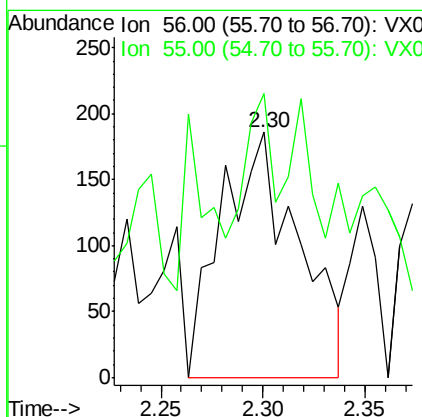
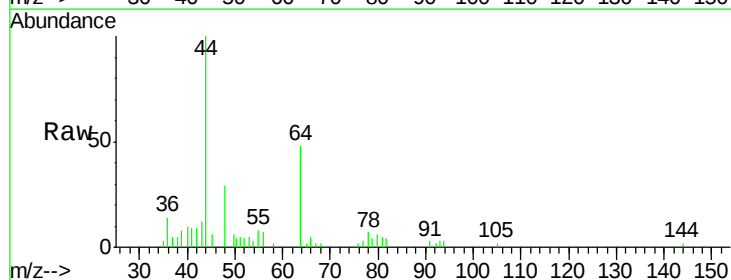
Instrument :
MSVOA_X
ClientSampleId :
LF5-0069

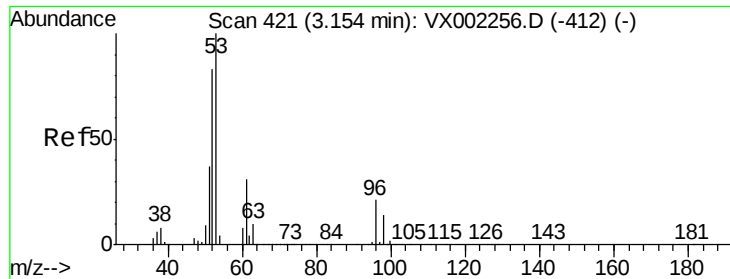
Tot Ion: 59 Resp: 2838
Ion Ratio Lower Upper
59 100
57 4.3 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

Tgt Ion: 56 Resp: 487
Ion Ratio Lower Upper
56 100
55 18.5 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA_X

ClientSampled :

LF5-0069

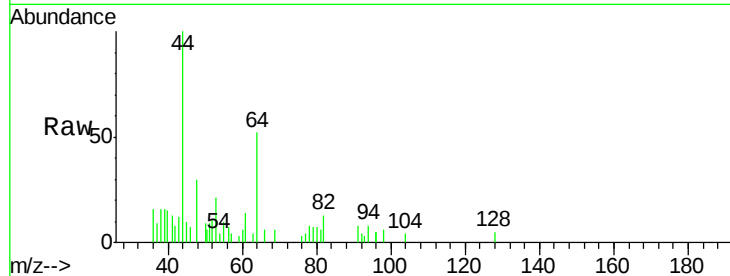
Tot Ion: 53 Resp: 744

Ion Ratio Lower Upper

53 100

52 43.0 66.7 100.1#

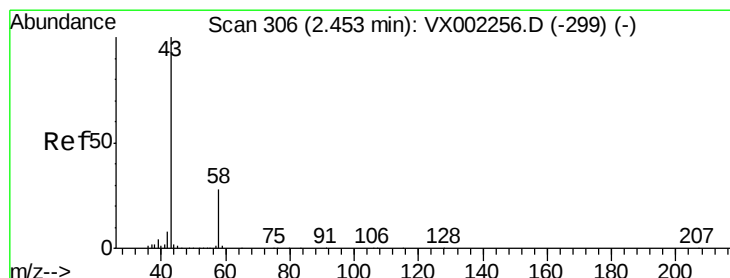
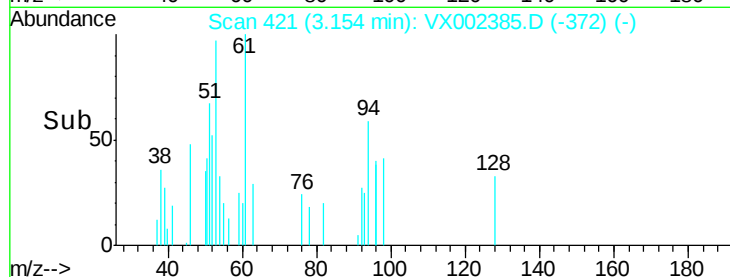
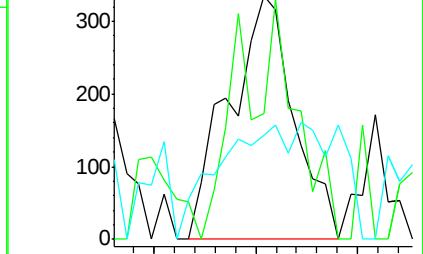
51 50.8 29.9 44.9#



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: VX002385.D

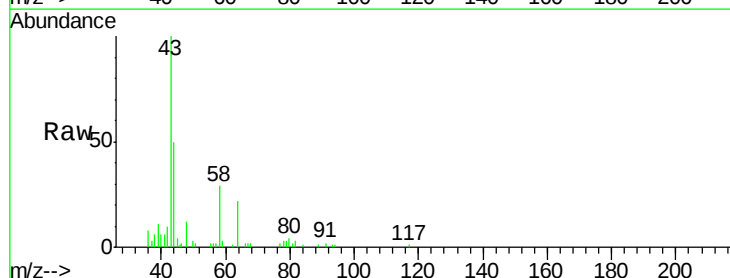
Acq: 07 Jun 2018 18:34

Tgt Ion: 43 Resp: 8553

Ion Ratio Lower Upper

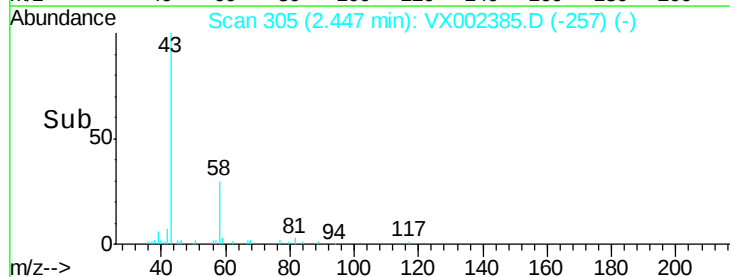
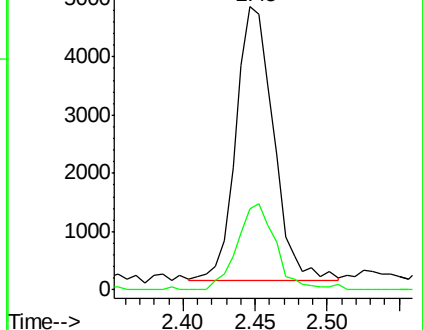
43 100

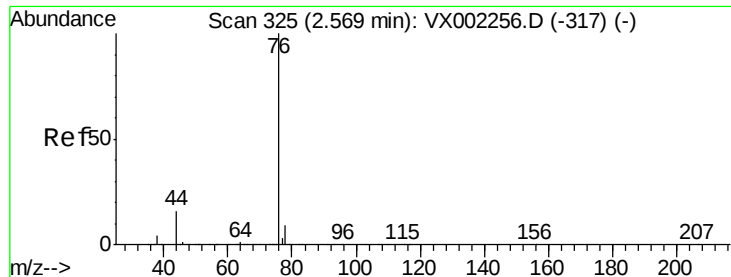
58 29.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

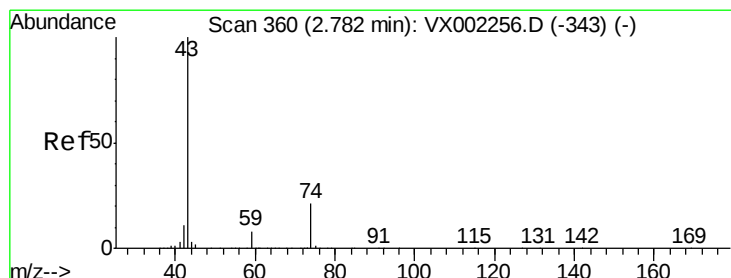
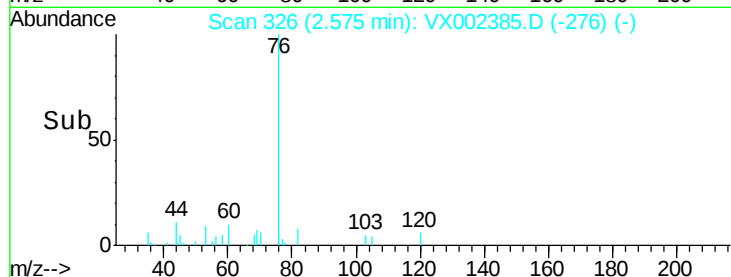
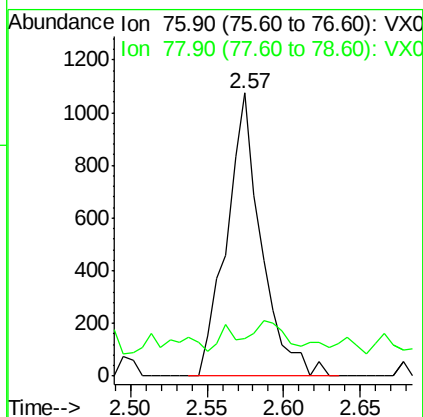
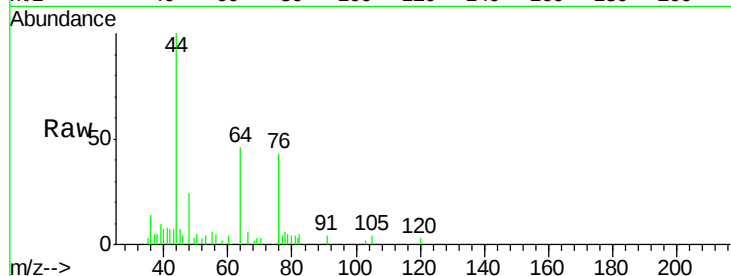




#17
Carbon Disulfide
Concen: 0.26 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

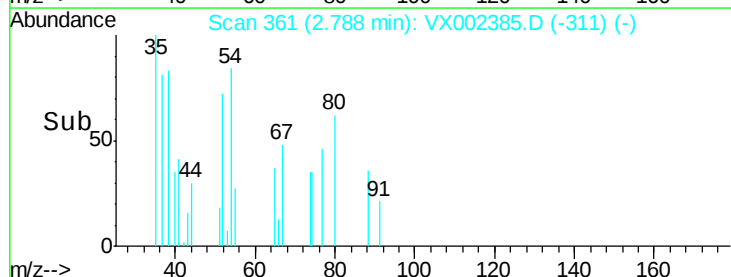
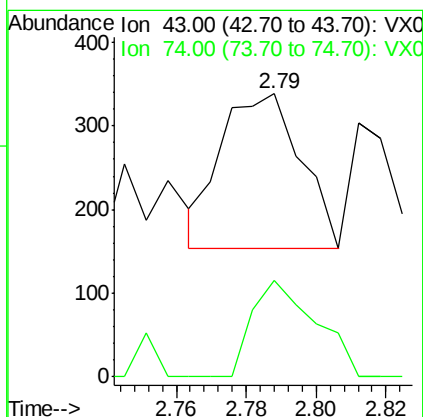
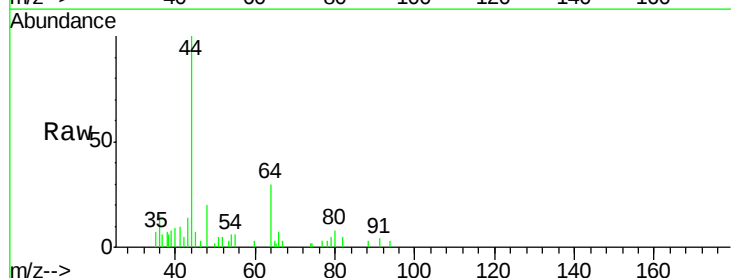
Instrument :
MSVOA_X
ClientSampled :
LF5-0069

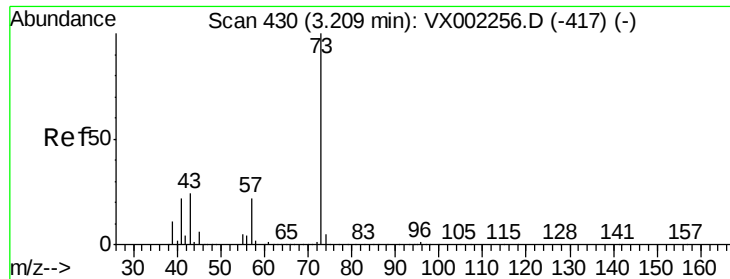
Tot Ion: 76 Resp: 1689
Ion Ratio Lower Upper
76 100
78 1.5 6.9 10.3#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

Tgt Ion: 43 Resp: 291
Ion Ratio Lower Upper
43 100
74 50.2 16.7 25.1#



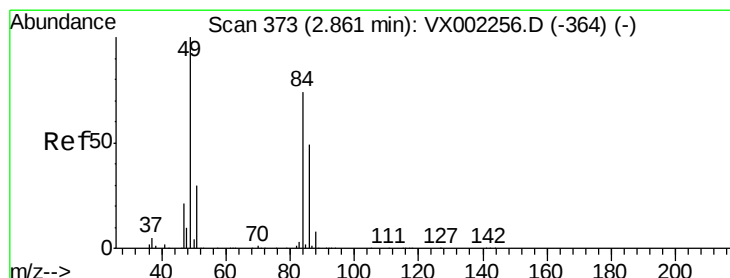
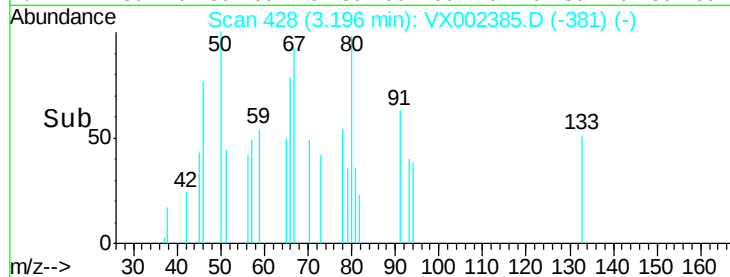
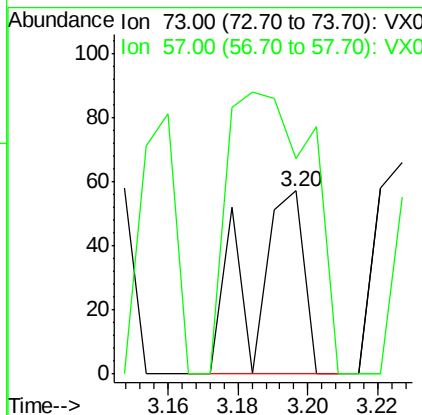
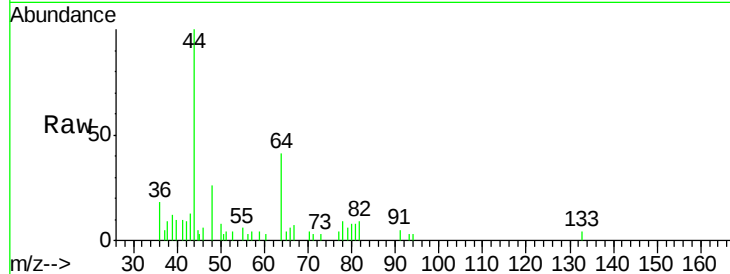


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 428
Delta R.T. -0.01 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

Instrument :
MSVOA_X
ClientSampleId :
LF5-0069

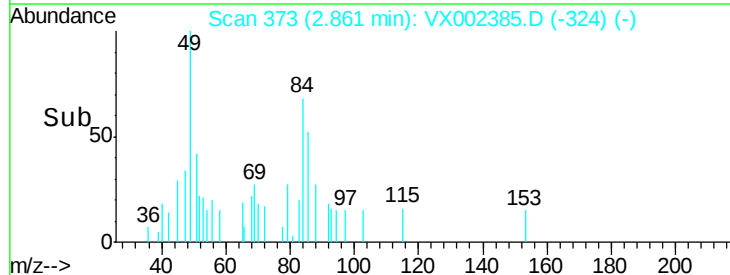
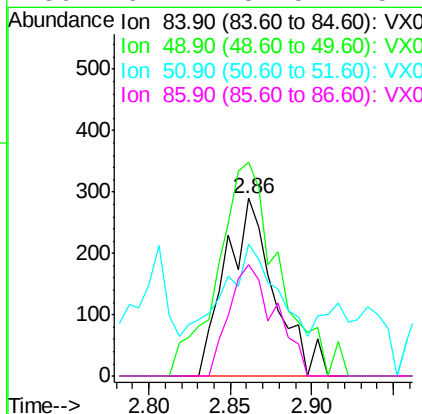
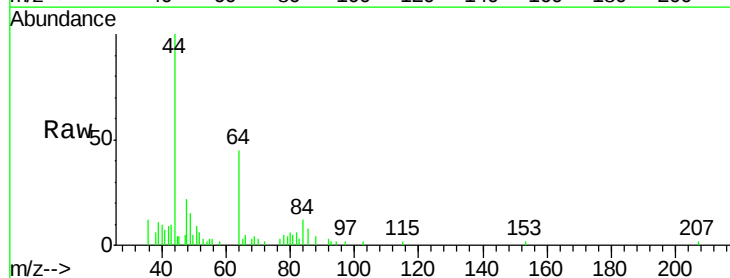
Tot Ion: 73 Resp: 59
Ion Ratio Lower Upper
73 100
57 117.5 17.7 26.5#

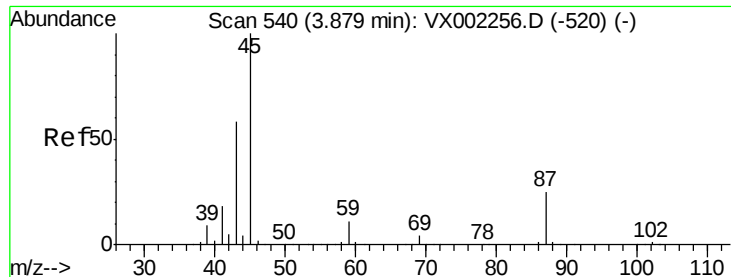


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

Tgt Ion: 84 Resp: 601
Ion Ratio Lower Upper
84 100
49 100.7 107.8 161.6#
51 45.2 32.8 49.2
86 62.4 52.5 78.7

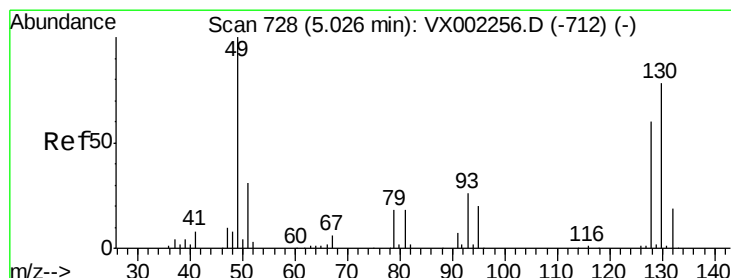
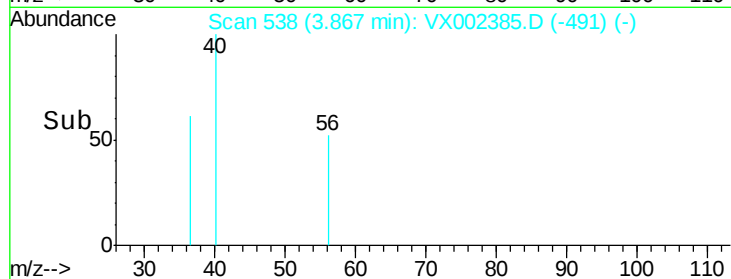
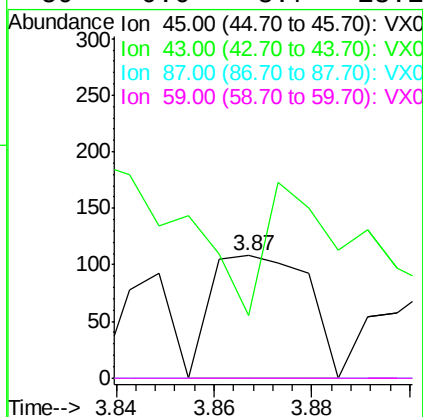
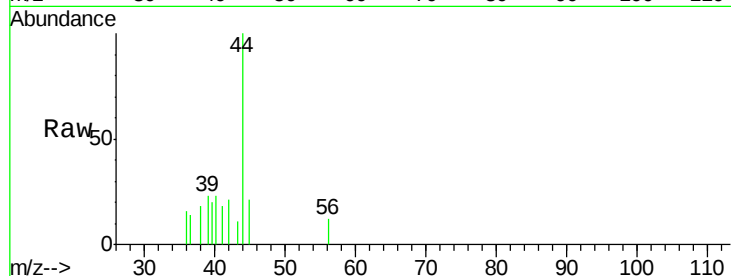




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

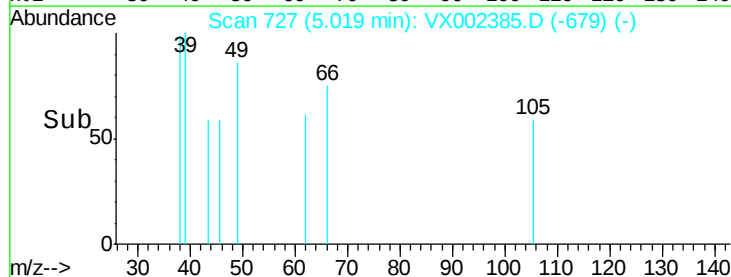
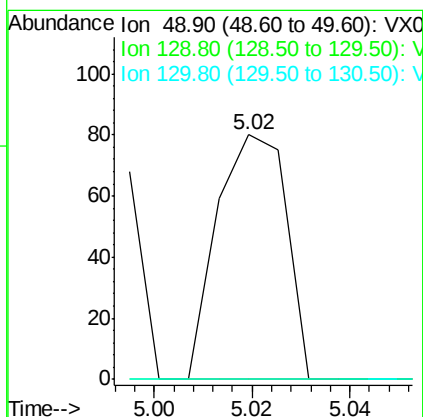
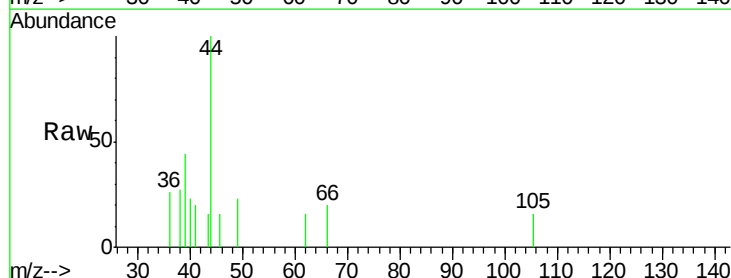
Instrument :
MSVOA_X
ClientSampled :
LF5-0069

Tot Ion:	45	Resp:	149
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#28
Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 727
Delta R.T. -0.01 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

Tgt Ion:	49	Resp:	78
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#

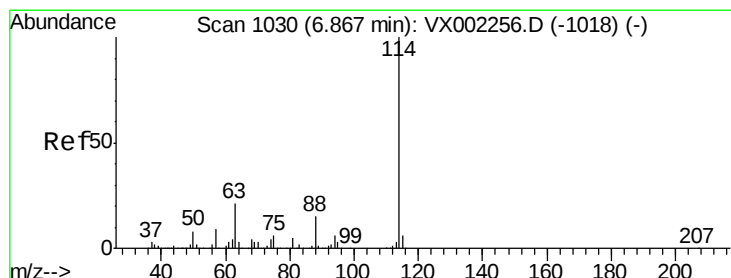
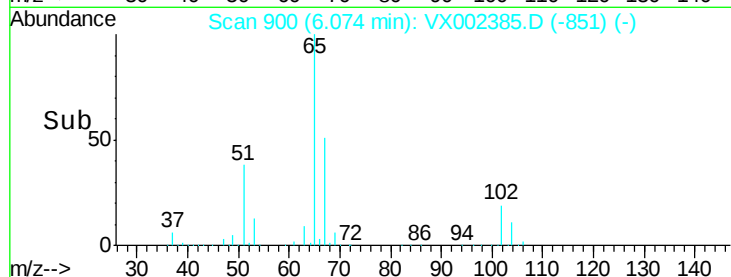
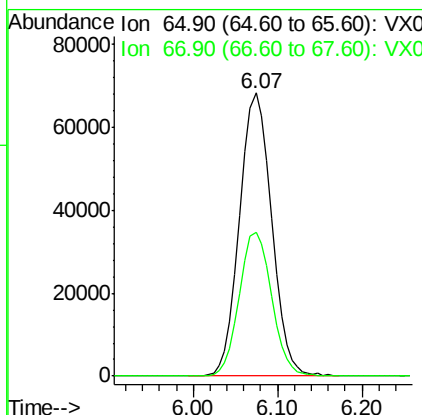
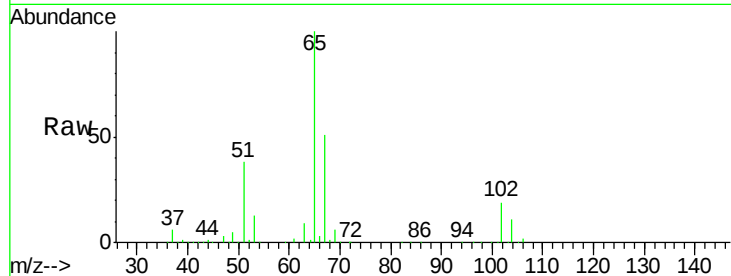




#33
 1,2-Dichloroethane-d4
 Concen: 53.59 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002385.D
 Acq: 07 Jun 2018 18:34

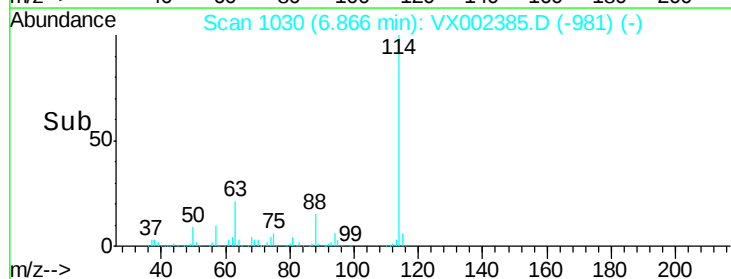
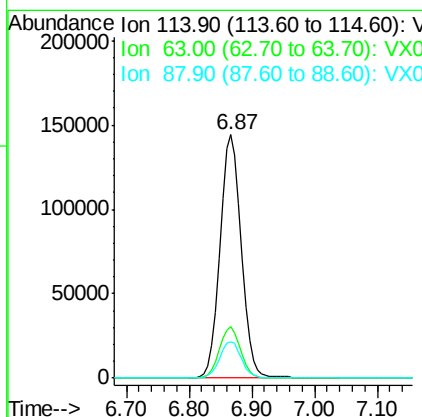
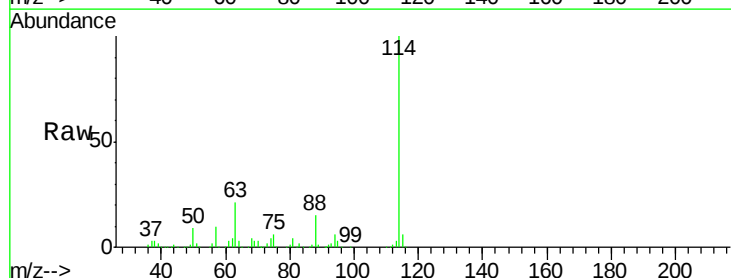
Instrument :
 MSVOA_X
 ClientSampleId :
 LF5-0069

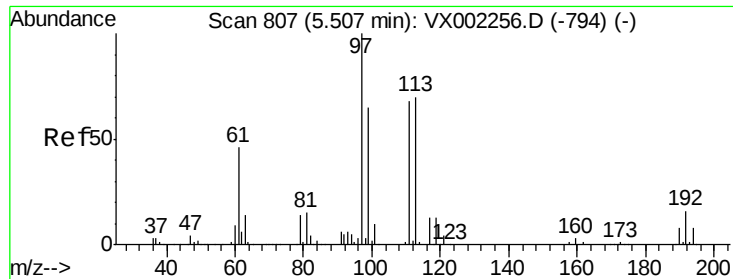
Tot Ion: 65 Resp: 176718
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002385.D
 Acq: 07 Jun 2018 18:34

Tgt Ion: 114 Resp: 339055
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 41.4
 88 14.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 50.05 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

LF5-0069

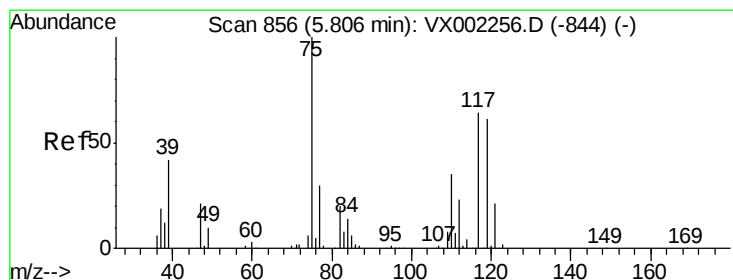
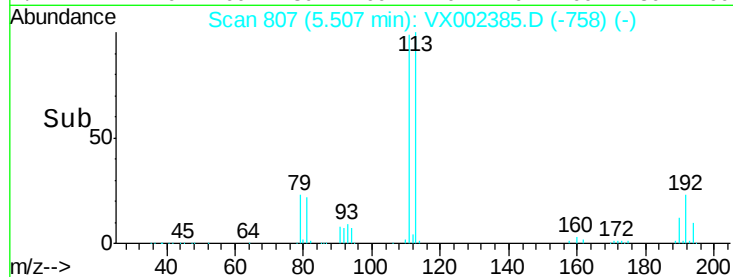
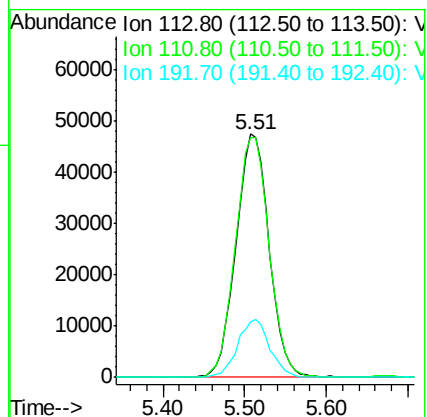
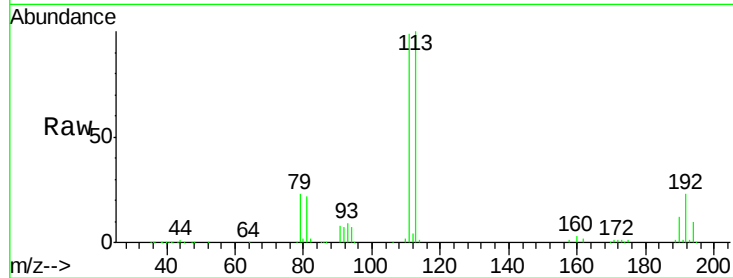
Tot Ion:113 Resp: 133441

Ion Ratio Lower Upper

113 100

111 100.8 81.4 122.0

192 23.2 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.72 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

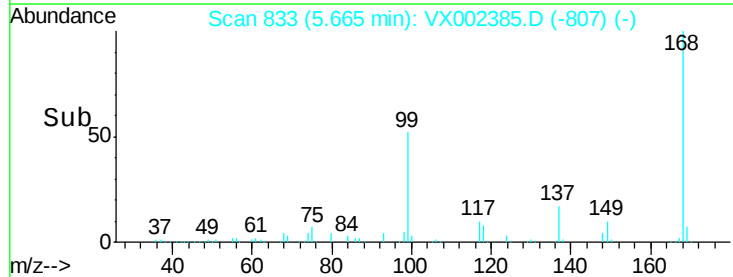
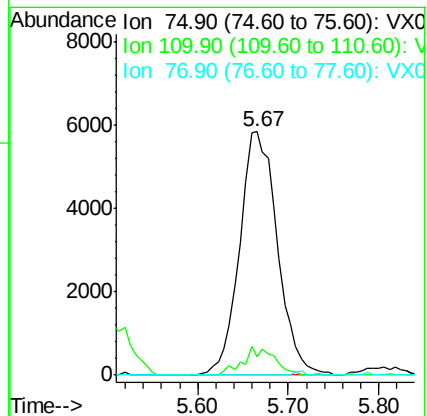
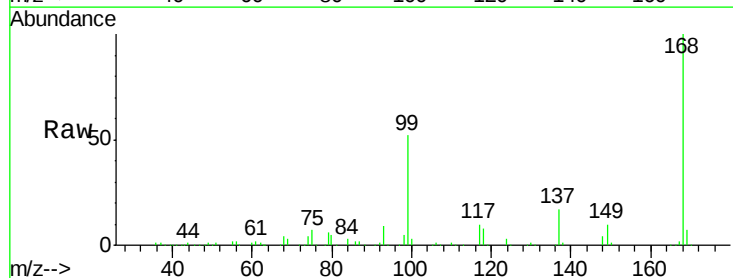
Tgt Ion: 75 Resp: 16835

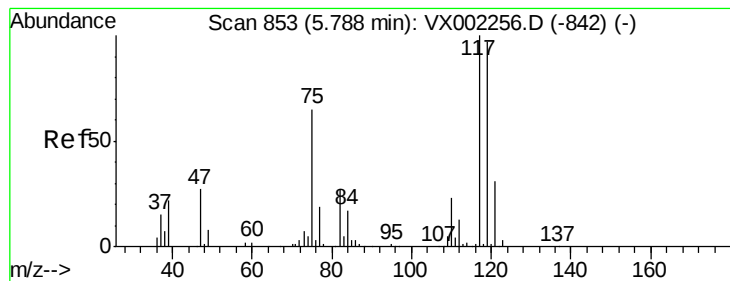
Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.4#

77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.73 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA_X

ClientSampled :

LF5-0069

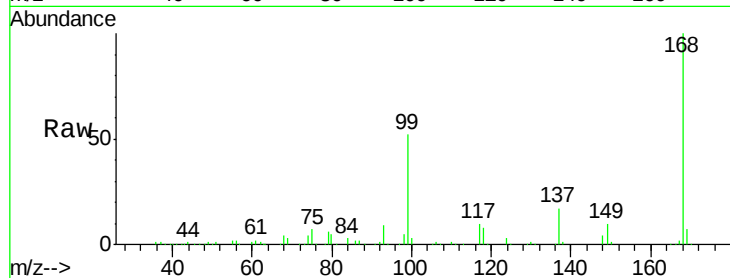
Tot Ion:117 Resp: 21374

Ion Ratio Lower Upper

117 100

119 4.0 77.4 116.0#

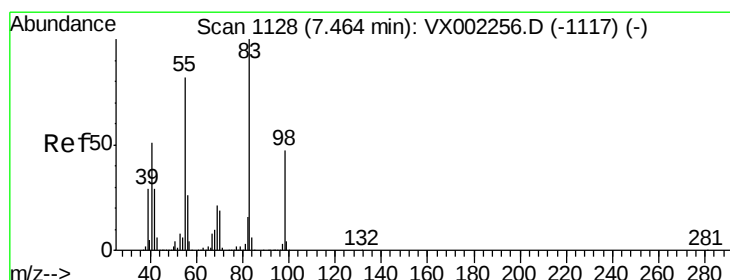
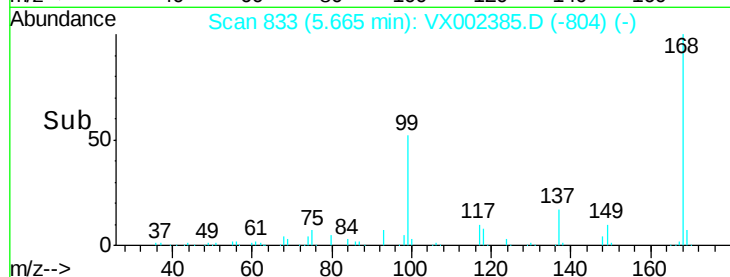
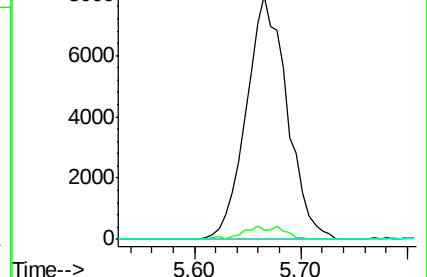
121 0.0 24.4 36.6#



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

Methylcyclohexane

Concen: 0.32 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

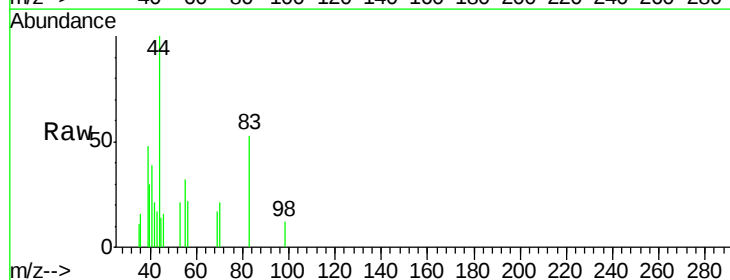
Tgt Ion: 83 Resp: 273

Ion Ratio Lower Upper

83 100

55 37.0 65.4 98.0#

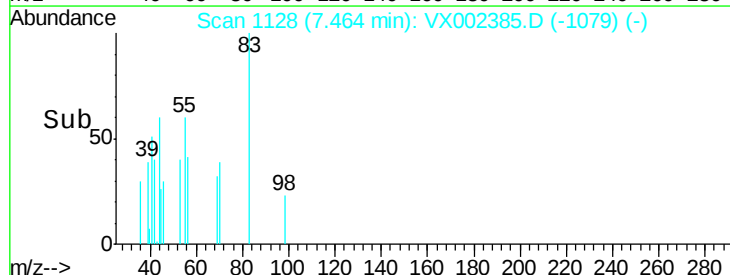
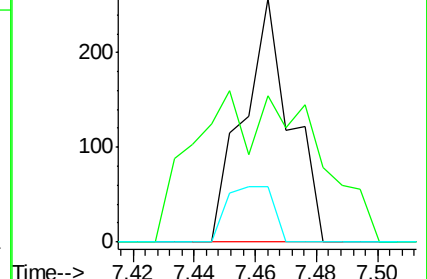
98 22.6 37.4 56.0#

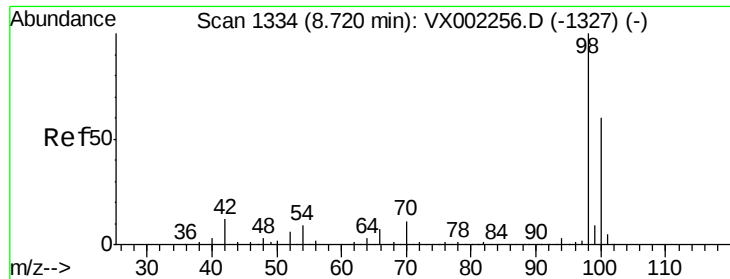


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 51.37 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

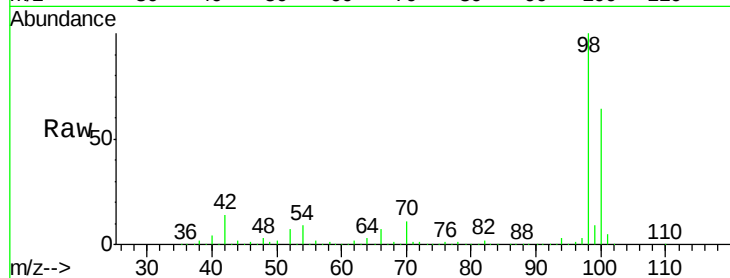
LF5-0069

Tot Ion: 98 Resp: 525015

Ion Ratio Lower Upper

98 100

100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

400000

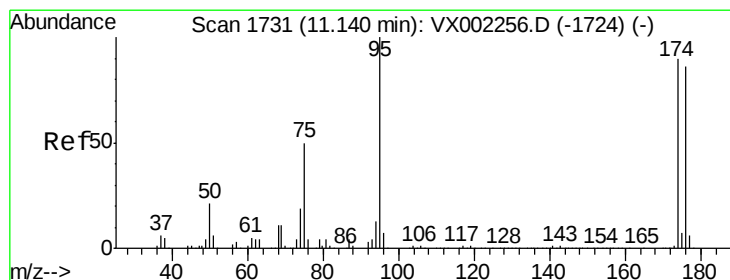
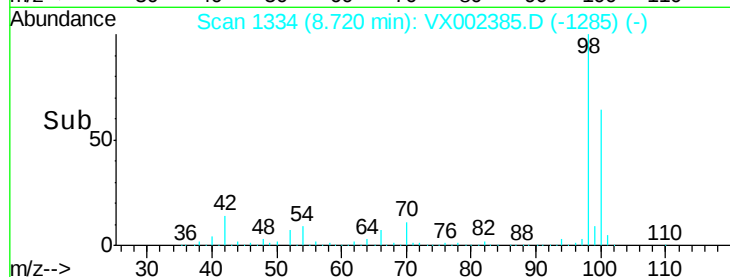
300000

200000

100000

0

Time--> 8.60 8.70 8.80 8.90



#62

4-Bromofluorobenzene

Concen: 45.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

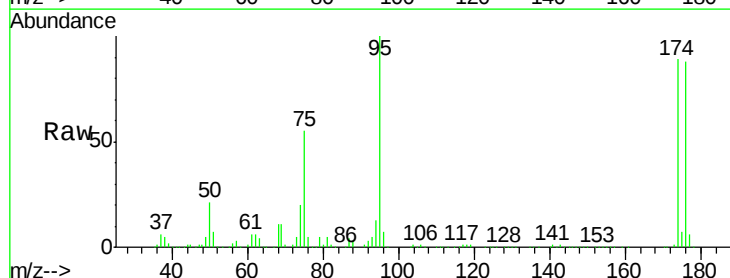
Tgt Ion: 95 Resp: 180427

Ion Ratio Lower Upper

95 100

174 93.7 0.0 187.4

176 90.8 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

200000

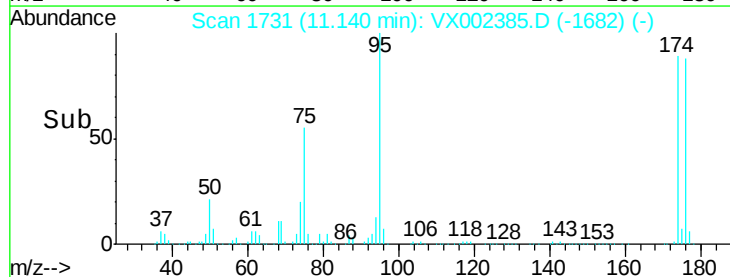
150000

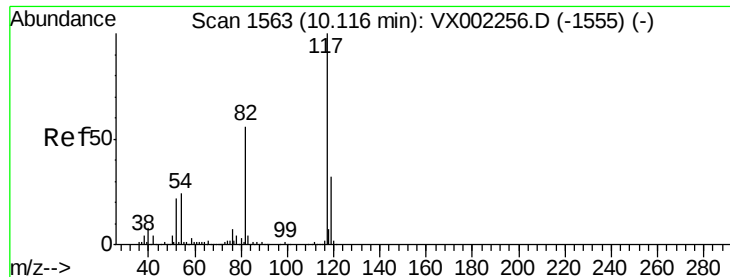
100000

50000

0

Time--> 11.10 11.20

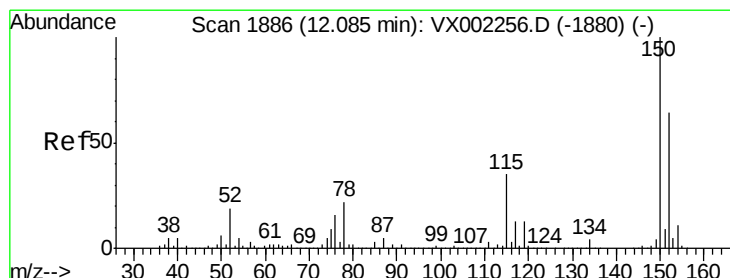
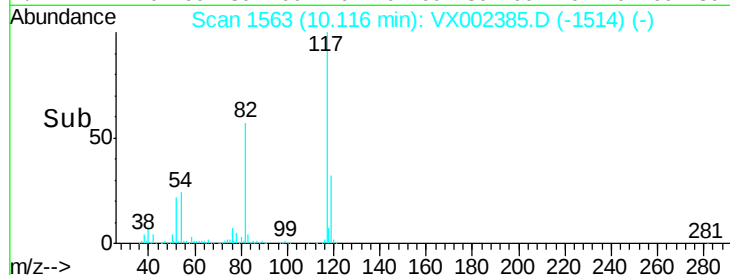
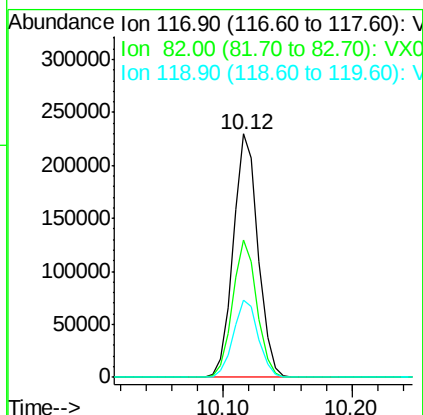
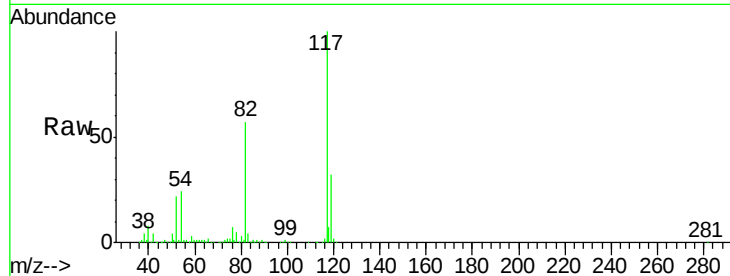




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

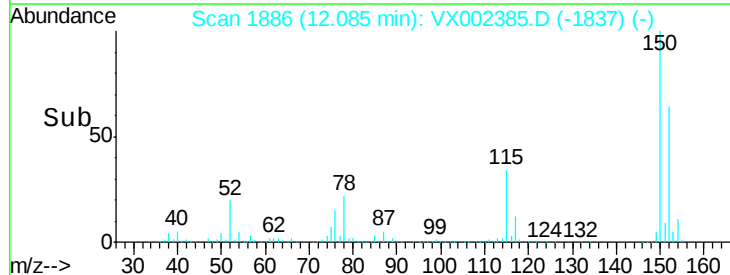
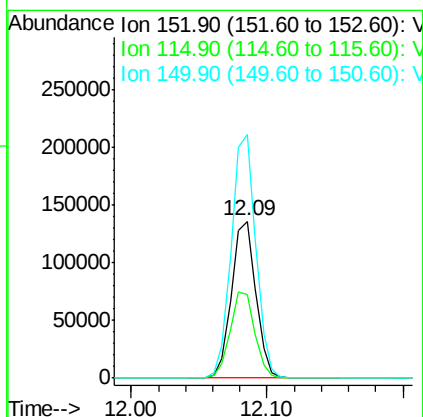
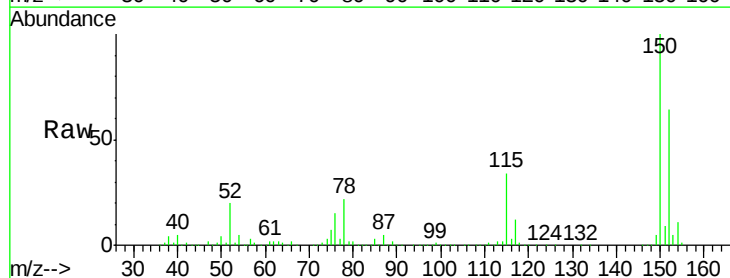
Instrument :
MSVOA_X
ClientSampled :
LF5-0069

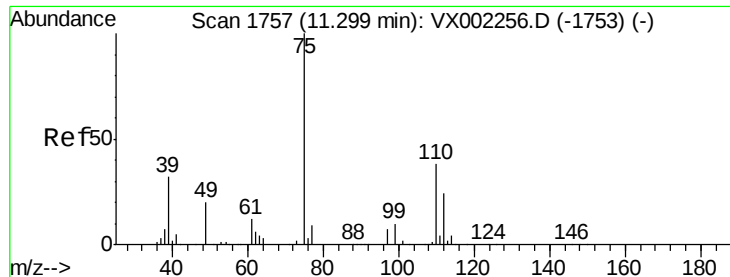
Tot Ion:117 Resp: 307687
Ion Ratio Lower Upper
117 100
82 56.6 45.0 67.4
119 31.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002385.D
Acq: 07 Jun 2018 18:34

Tgt Ion:152 Resp: 169267
Ion Ratio Lower Upper
152 100
115 55.5 40.1 120.2
150 156.1 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 26.28 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

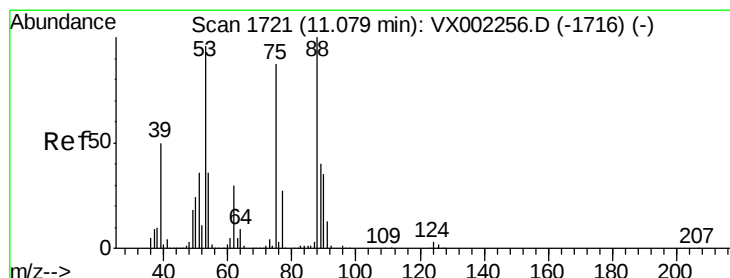
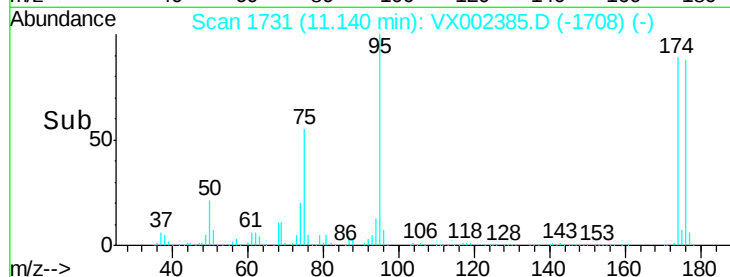
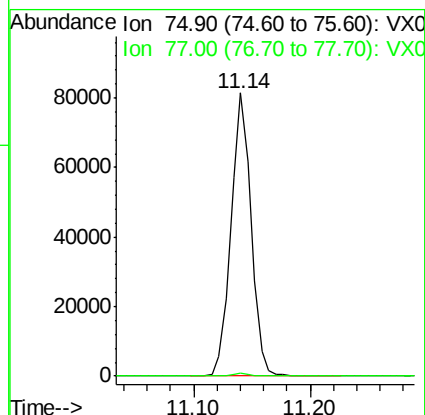
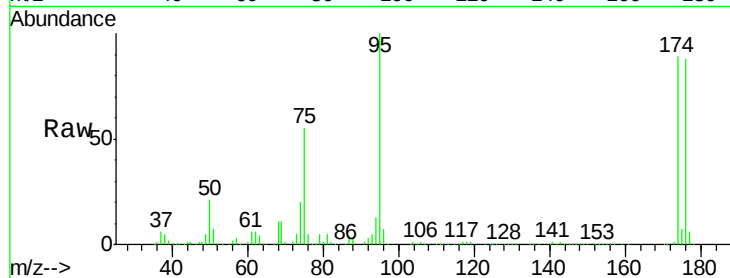
LF5-0069

Tot Ion: 75 Resp: 97605

Ion Ratio Lower Upper

75 100

77 1.1 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 92.12 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Tgt Ion: 75 Resp: 97605

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

