

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\
 Data File : VX002515.D
 Acq On : 13 Jun 2018 18:15
 Operator : JC/MD
 Sample : J3404-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 01:47:40 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	203926	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	298980	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	276965	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	153972	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	165130	57.12	ug/l	0.00
Spiked Amount			Recovery	=	114.24%	
35) Dibromofluoromethane	5.51	113	122308	52.02	ug/l	0.00
Spiked Amount			Recovery	=	104.04%	
50) Toluene-d8	8.72	98	481132	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	
62) 4-Bromofluorobenzene	11.14	95	163992	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	

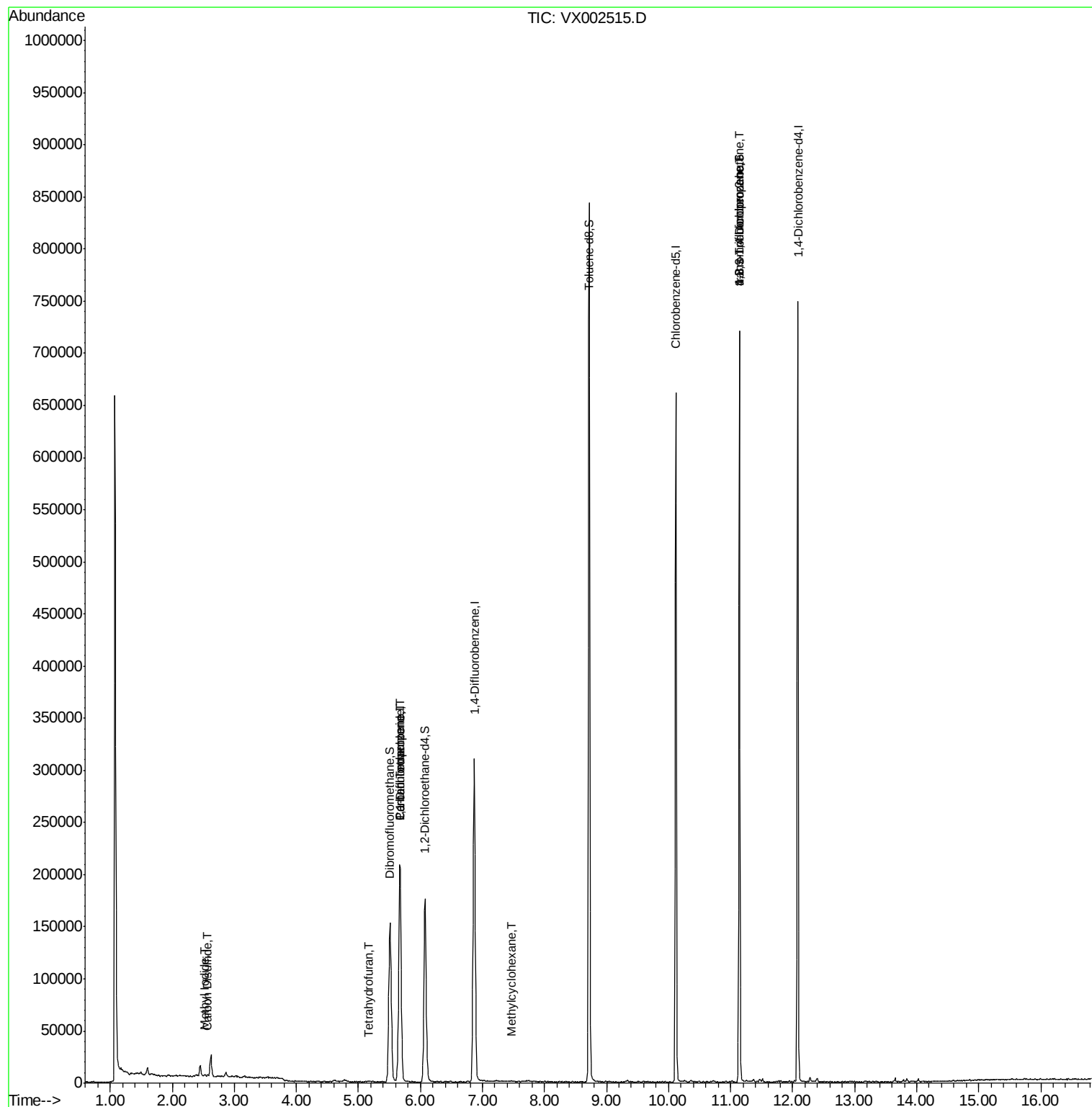
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	577	Below Cal	#	41
5) Bromomethane	1.66	94	921	Below Cal		97
8) Diethyl Ether	2.21	74	57	Below Cal	#	1
10) Methyl Iodide	2.52	142	2251	0.73	ug/l	90
11) Tert butyl alcohol	3.07	59	234	Below Cal	#	1
13) Acrolein	2.29	56	294	Below Cal		93
15) Acrylonitrile	3.15	53	378	Below Cal	#	1
16) Acetone	2.45	43	11840	Below Cal		99
17) Carbon Disulfide	2.57	76	1540	0.27	ug/l	# 95
18) Methyl Acetate	2.79	43	839	Below Cal		95
19) Methyl tert-butyl Ether	3.21	73	176	Below Cal	#	54
20) Methylene Chloride	2.86	84	1691	Below Cal		92
22) Diisopropyl ether	3.90	45	130	Below Cal	#	62
28) Bromochloromethane	5.01	49	64	Below Cal	#	61
29) Tetrahydrofuran	5.16	42	268	0.21	ug/l	# 40
36) 1,1-Dichloropropene	5.67	75	15038	4.78	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	19893	6.05	ug/l	# 15
39) Methylcyclohexane	7.47	83	323	0.35	ug/l	# 48
76) 1,2,3-Trichloropropane	11.14	75	89371	26.45	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	89371	92.73	ug/l	# 6

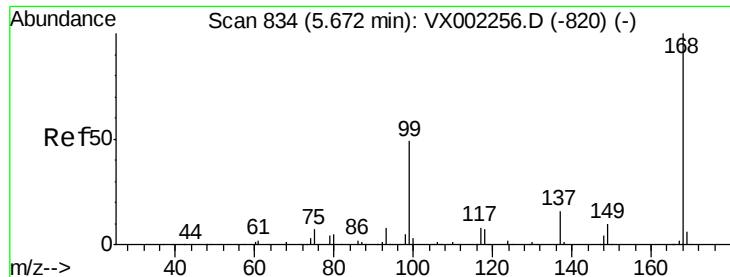
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX002515.D

Acq: 13 Jun 2018 18:15

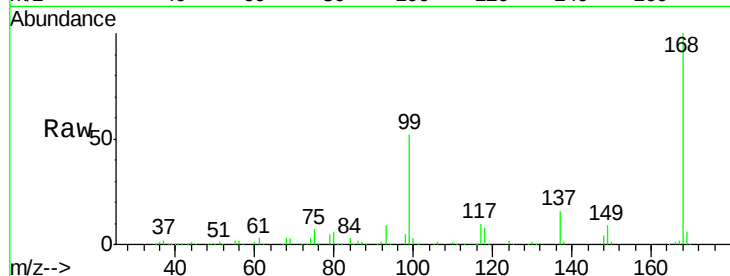
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 203926

Ion Ratio Lower Upper

168 100

99 52.1 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

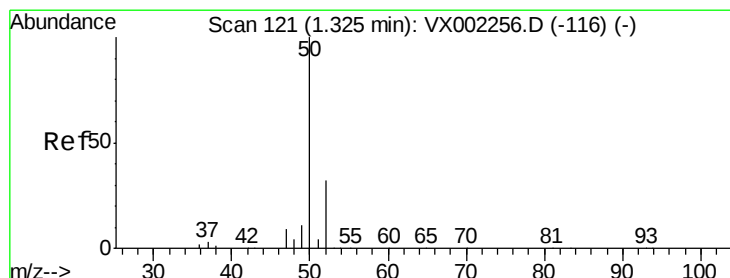
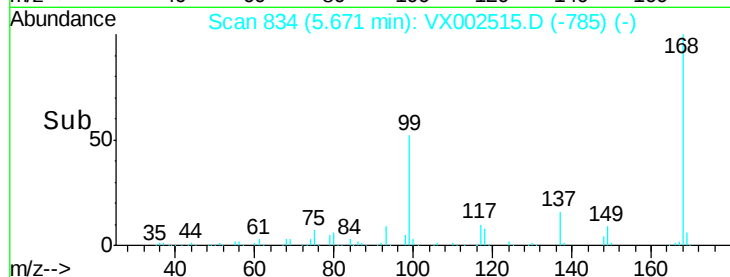
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002515.D

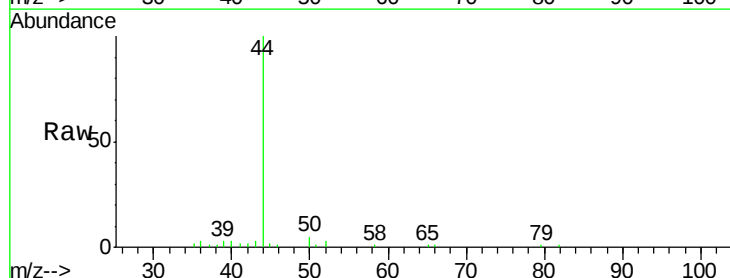
Acq: 13 Jun 2018 18:15

Tgt Ion: 50 Resp: 577

Ion Ratio Lower Upper

50 100

52 65.0 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

400

300

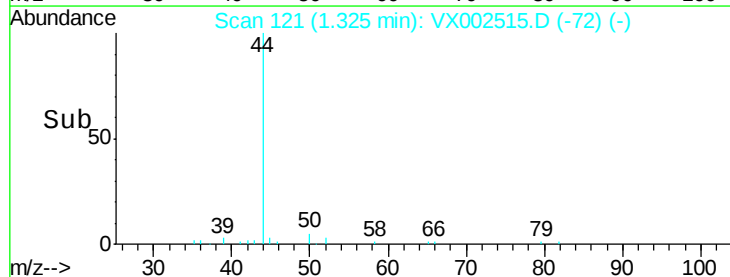
200

100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002515.D

Acq: 13 Jun 2018 18:15

Instrument :

MSVOA_X

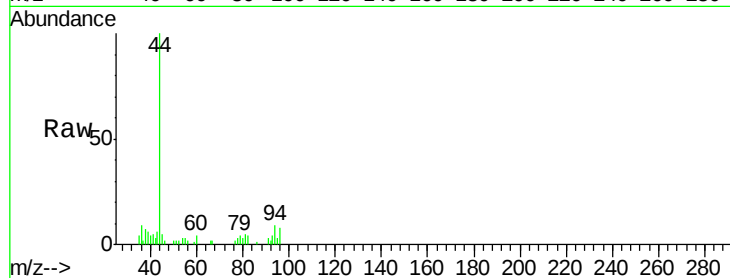
ClientSampled :

Tot Ion: 94 Resp: 921

Ion Ratio Lower Upper

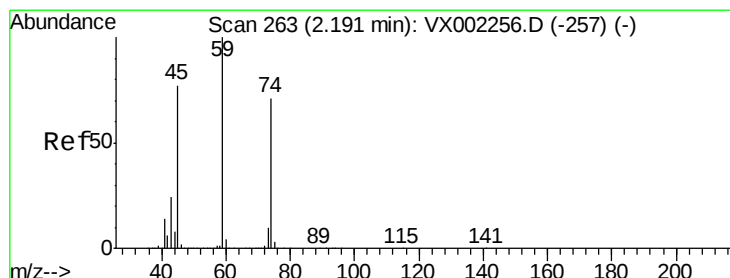
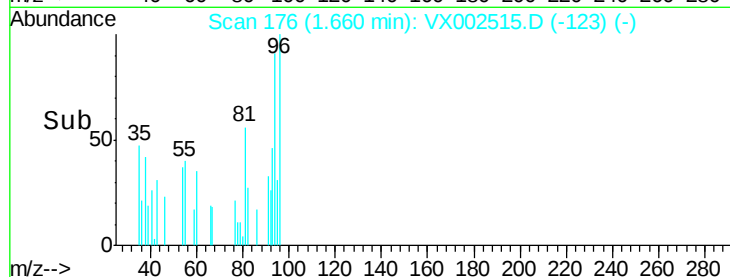
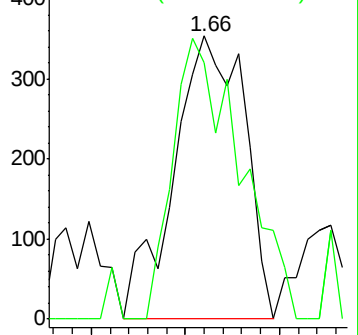
94 100

96 90.7 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.21 min Scan# 266

Delta R.T. 0.02 min

Lab File: VX002515.D

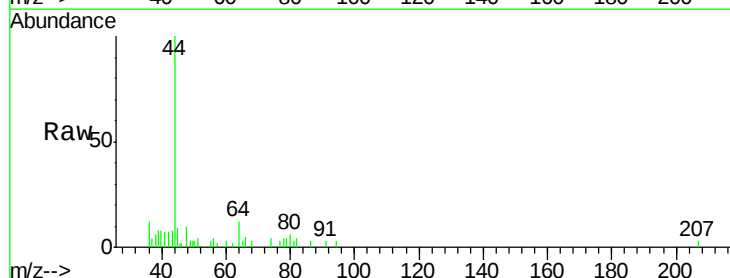
Acq: 13 Jun 2018 18:15

Tgt Ion: 74 Resp: 57

Ion Ratio Lower Upper

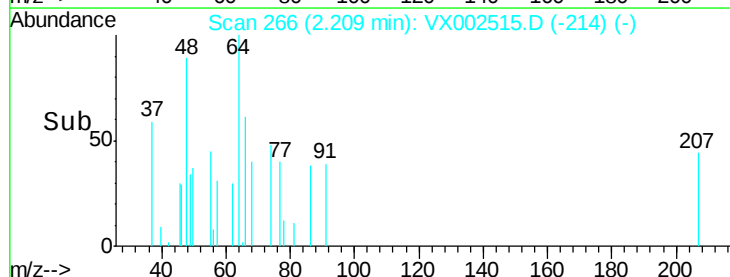
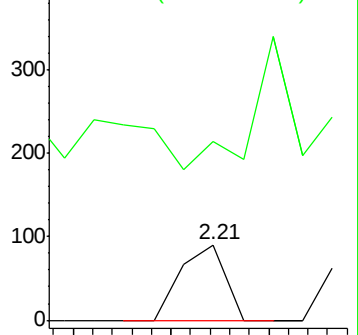
74 100

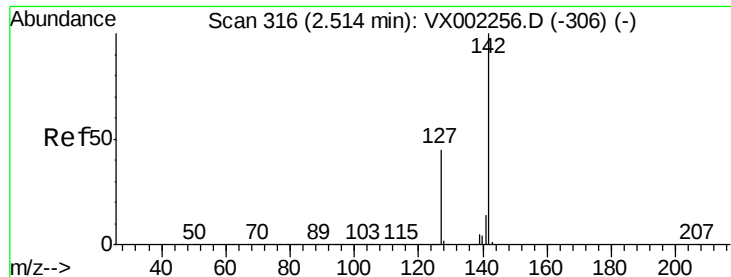
45 280.7 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

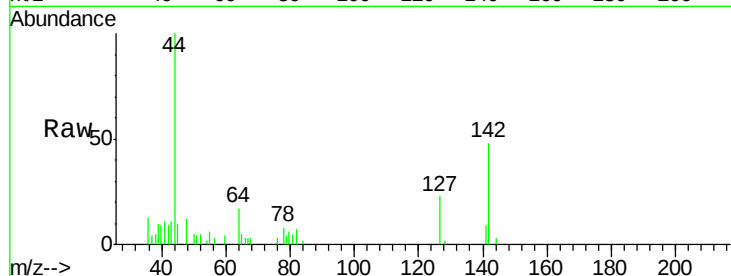




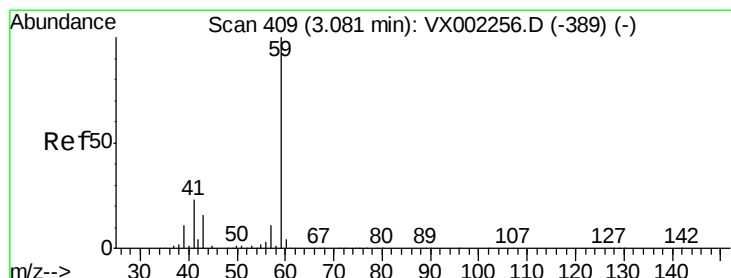
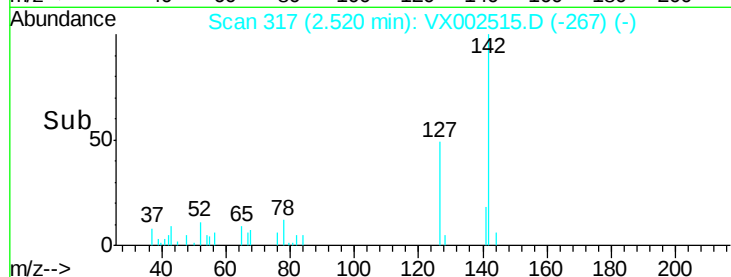
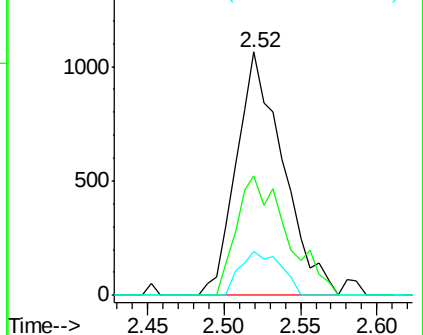
#10
Methvl Iodide
Concen: 0.73 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 2251
Ion Ratio Lower Upper
142 100
127 53.4 36.6 55.0
141 15.9 11.3 16.9

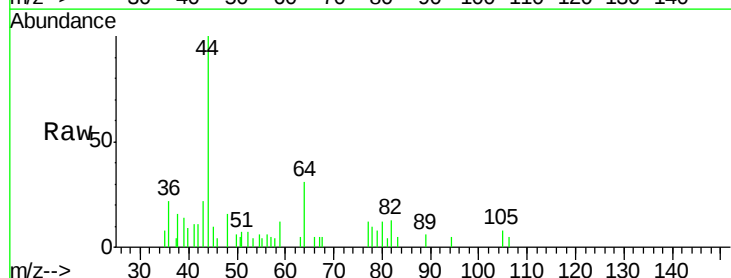


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

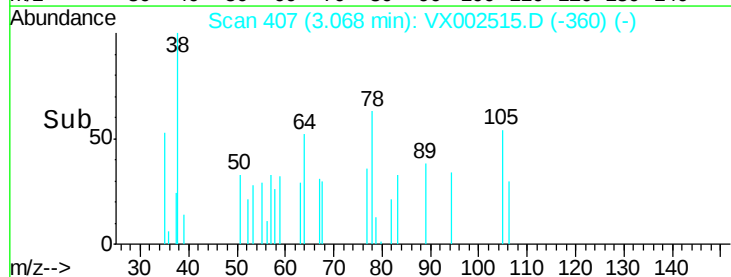
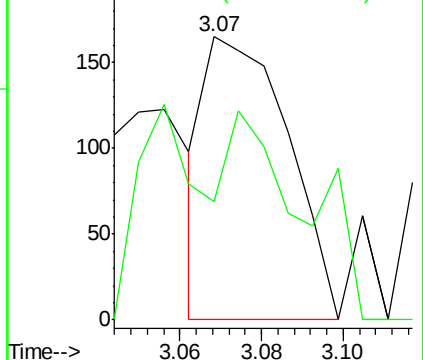


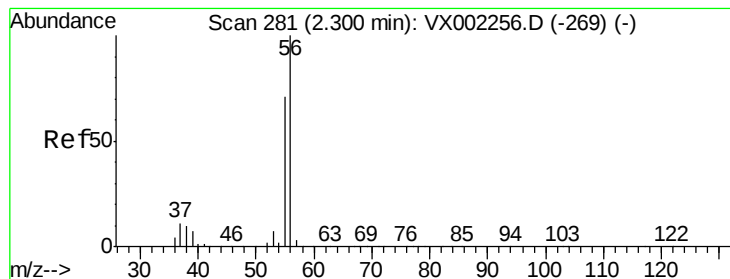
#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

Tgt Ion: 59 Resp: 234
Ion Ratio Lower Upper
59 100
57 67.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002515.D

Acq: 13 Jun 2018 18:15

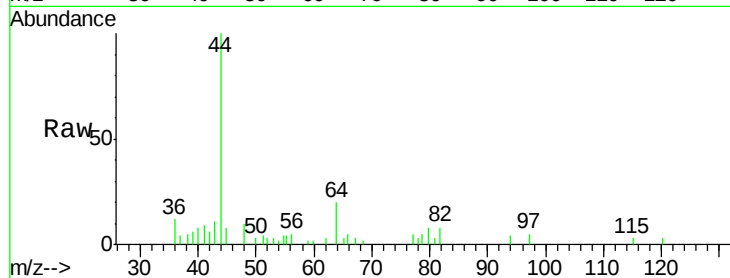
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 294

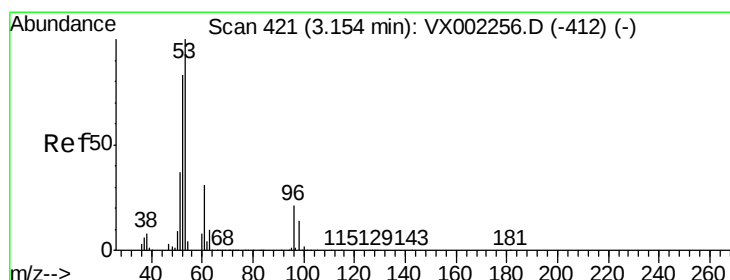
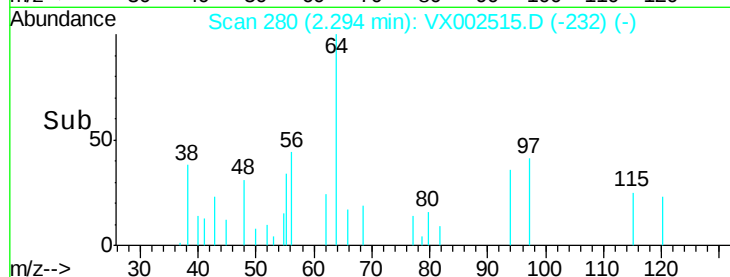
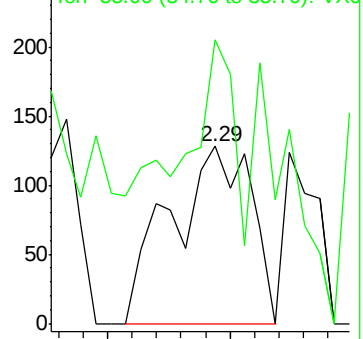
Ion Ratio Lower Upper

56 100

55 77.2 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: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002515.D

Acq: 13 Jun 2018 18:15

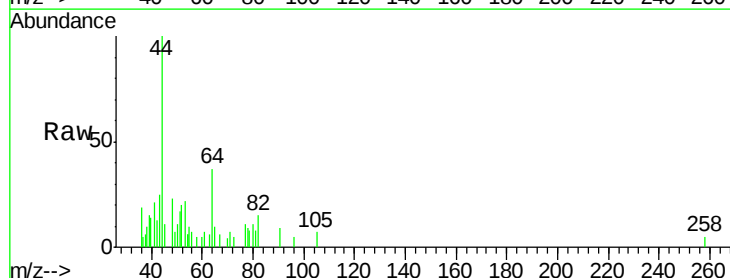
Tgt Ion: 53 Resp: 378

Ion Ratio Lower Upper

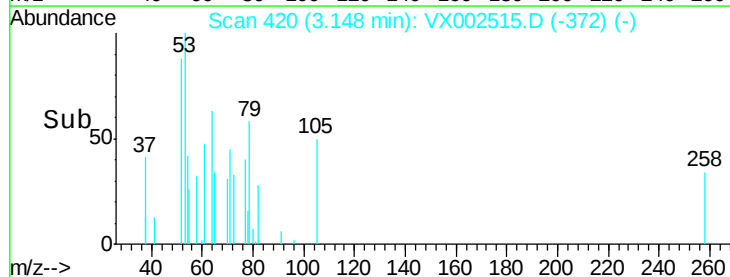
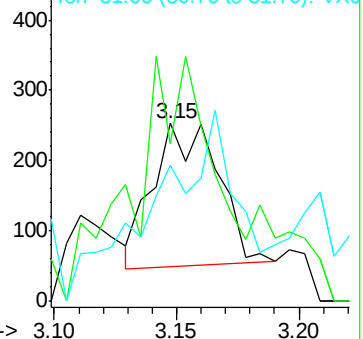
53 100

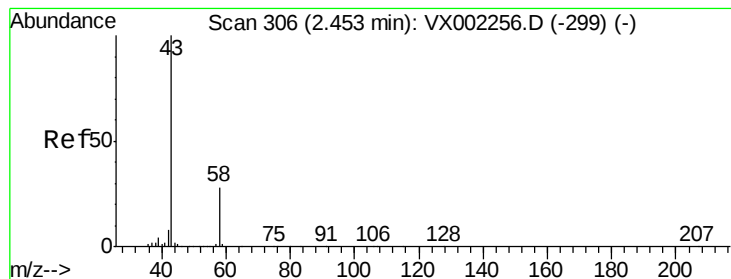
52 214.6 66.7 100.1#

51 0.0 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# 306

Delta R.T. 0.00 min

Lab File: VX002515.D

Acq: 13 Jun 2018 18:15

Instrument :

MSVOA_X

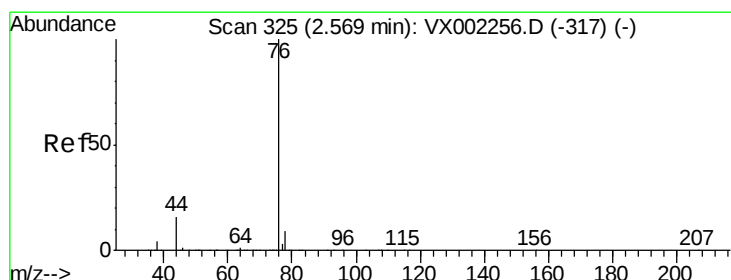
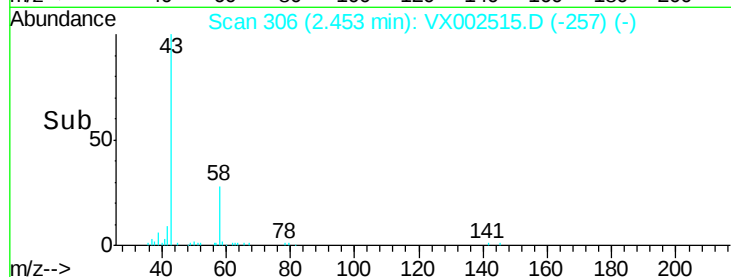
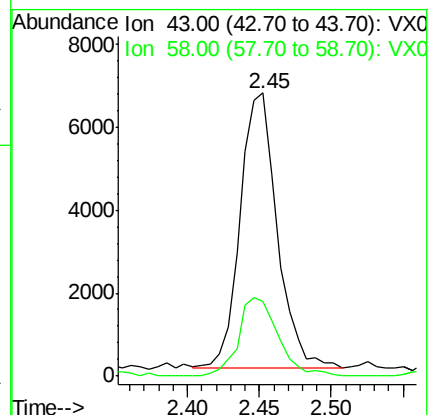
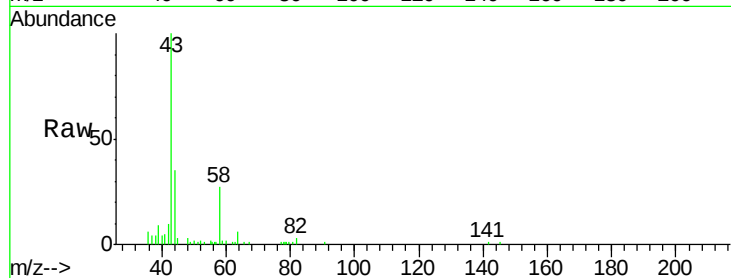
ClientSampleId :

Tot Ion: 43 Resp: 11840

Ion Ratio Lower Upper

43 100

58 27.3 22.1 33.1



#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002515.D

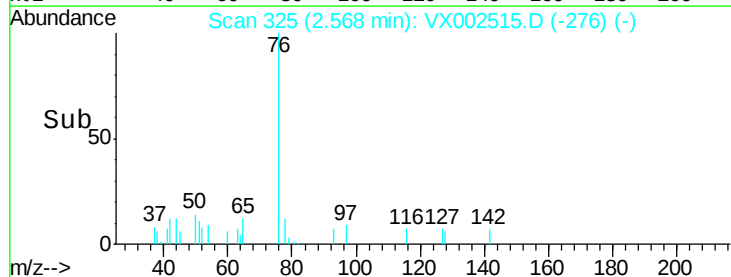
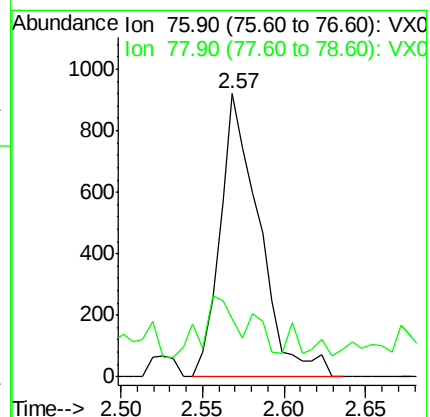
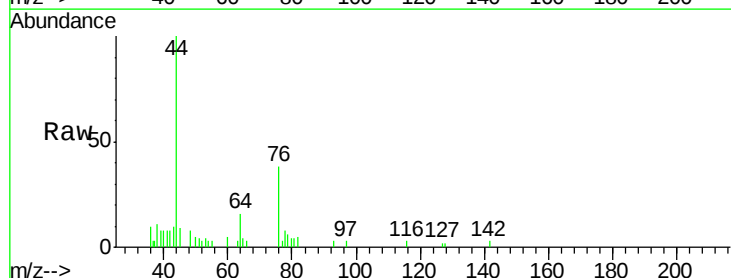
Acq: 13 Jun 2018 18:15

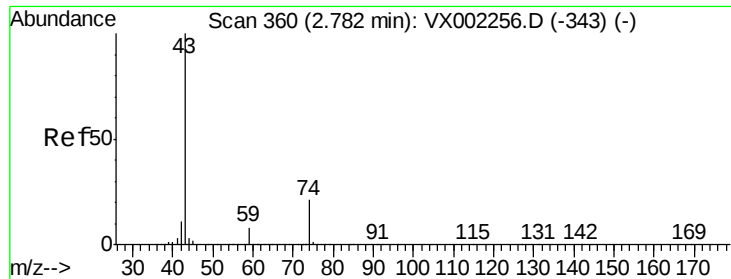
Tgt Ion: 76 Resp: 1540

Ion Ratio Lower Upper

76 100

78 10.5 6.9 10.3#

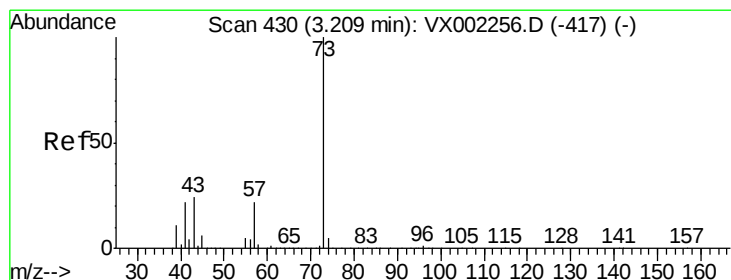
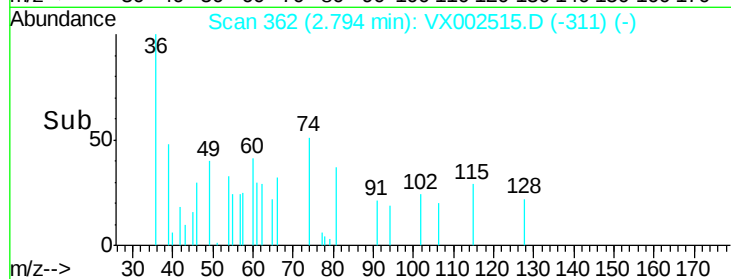
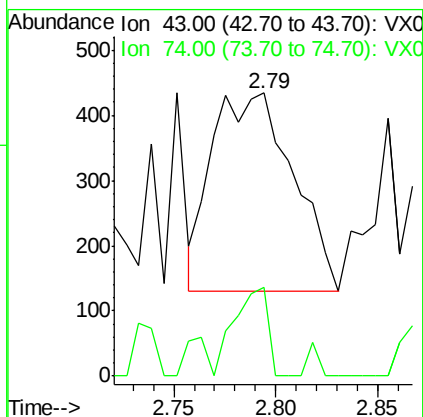
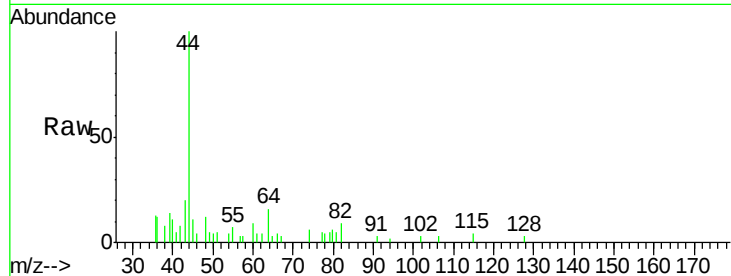




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 362
Delta R.T. 0.01 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

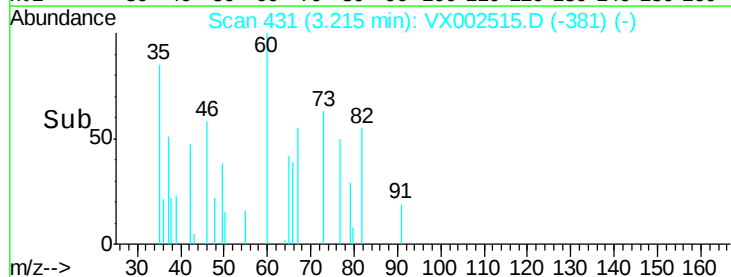
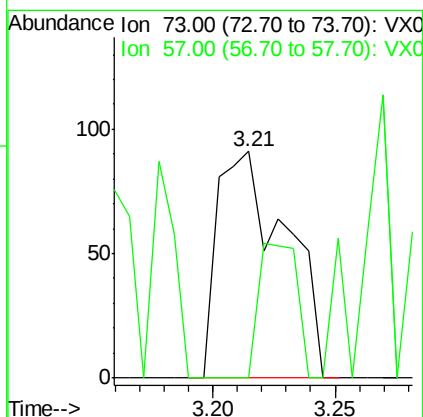
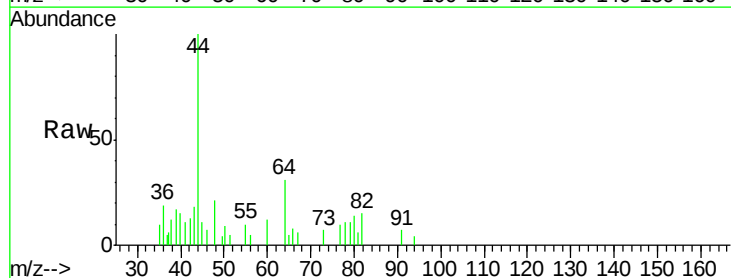
Instrument :
MSVOA_X
ClientSampled :

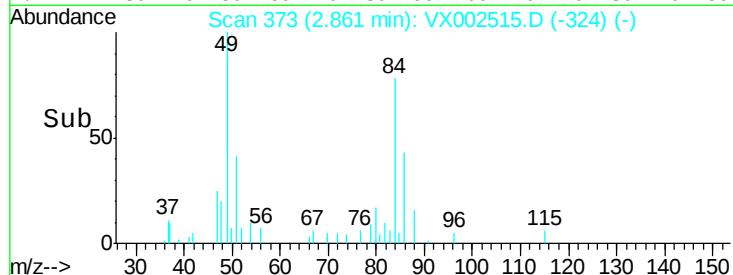
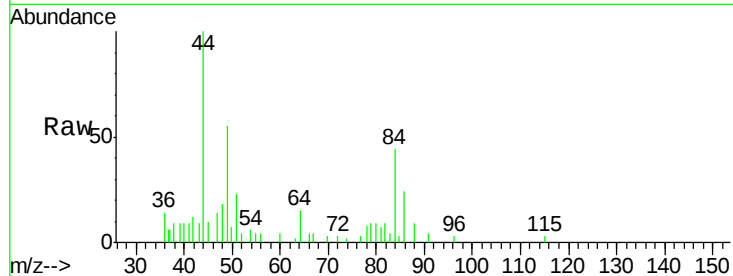
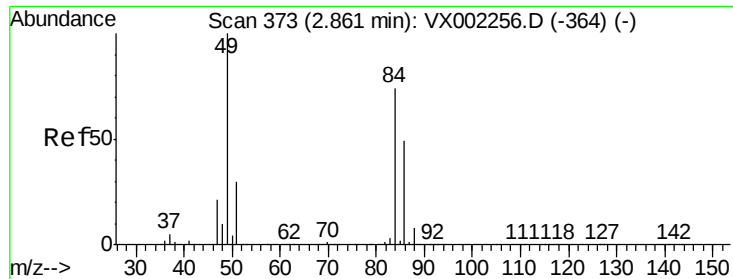
Tot Ion: 43 Resp: 839
Ion Ratio Lower Upper
43 100
74 18.6 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

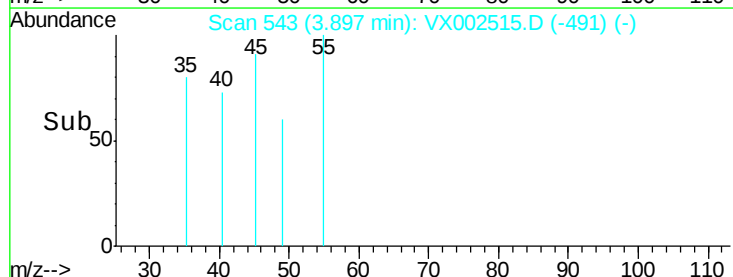
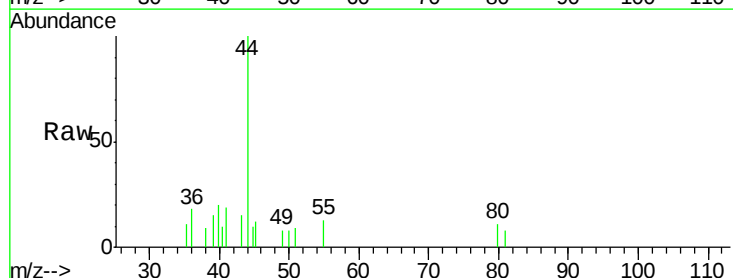
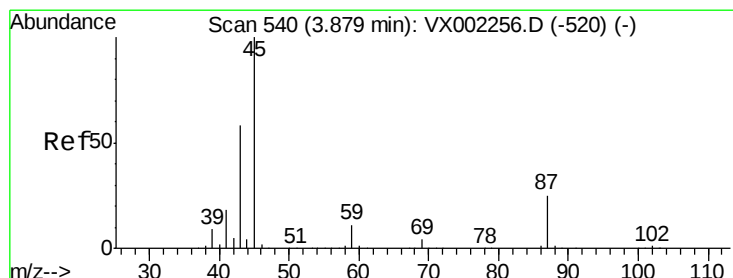
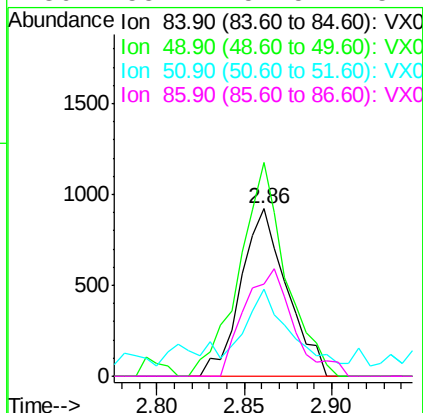
Tgt Ion: 73 Resp: 176
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#





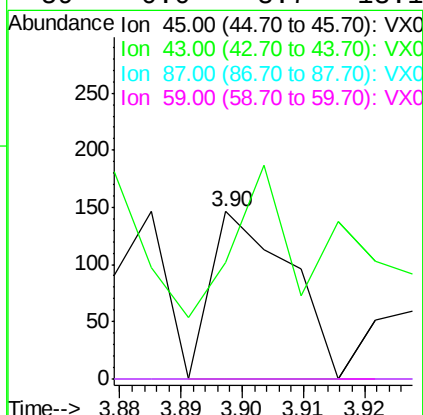
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

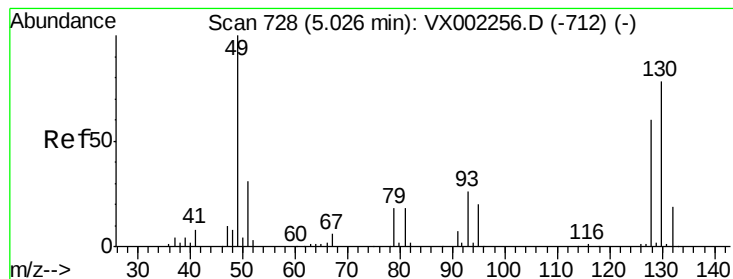
Tot Ion	84	Resp	1691
Ion Ratio	Lower	Upper	
84	100		
49	127.4	107.8	161.6
51	44.1	32.8	49.2
86	55.1	52.5	78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.90 min Scan# 543
Delta R.T. 0.02 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

Tgt Ion	45	Resp	130
Ion Ratio	Lower	Upper	
45	100		
43	32.9	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 725

Delta R.T. -0.02 min

Lab File: VX002515.D

Acq: 13 Jun 2018 18:15

Instrument :

MSVOA_X

ClientSampleId :

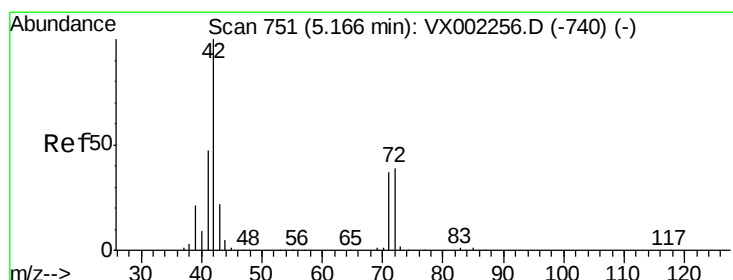
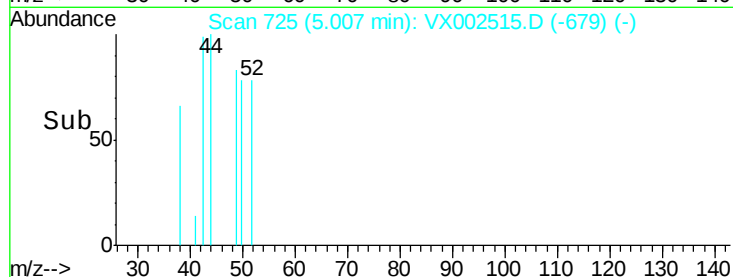
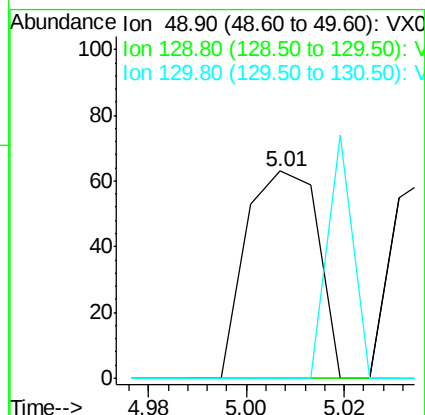
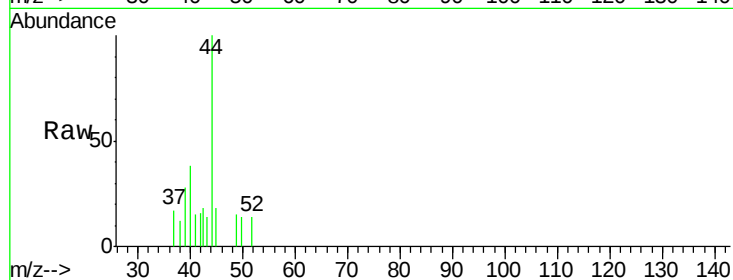
Tot Ion: 49 Resp: 64

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 42.2 61.2 91.8#



#29

Tetrahydrofuran

Concen: 0.21 ug/l

RT: 5.16 min Scan# 750

Delta R.T. -0.01 min

Lab File: VX002515.D

Acq: 13 Jun 2018 18:15

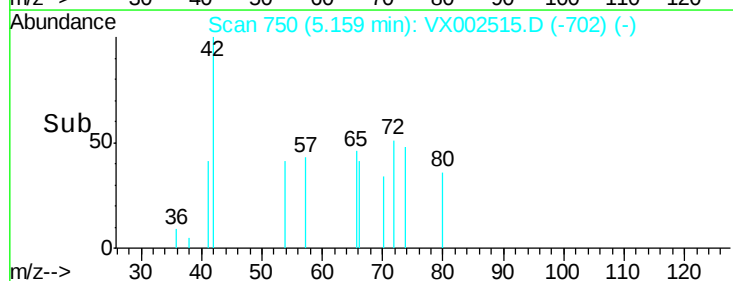
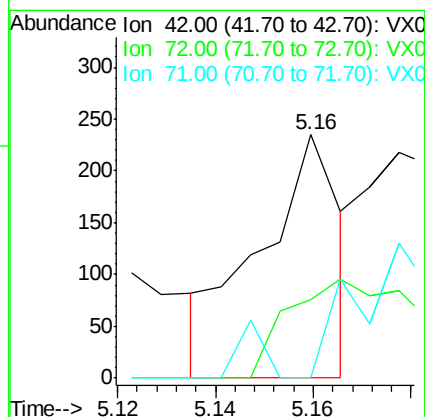
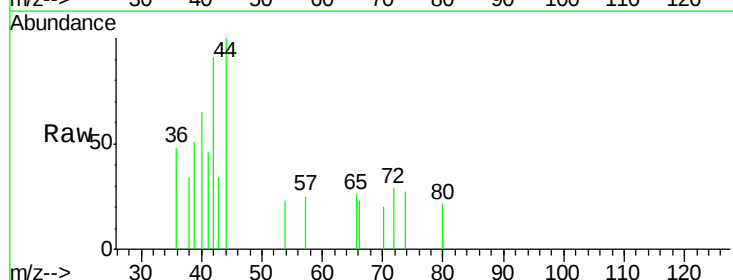
Tgt Ion: 42 Resp: 268

Ion Ratio Lower Upper

42 100

72 82.5 32.0 48.0#

71 7.5 30.1 45.1#

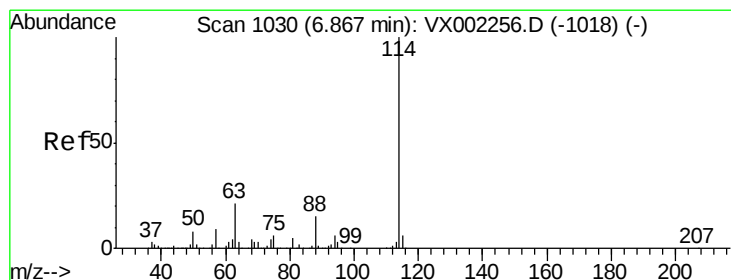
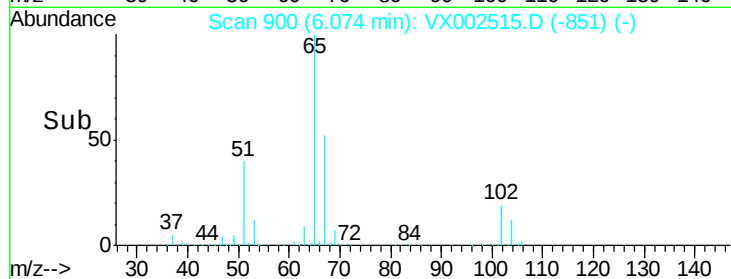
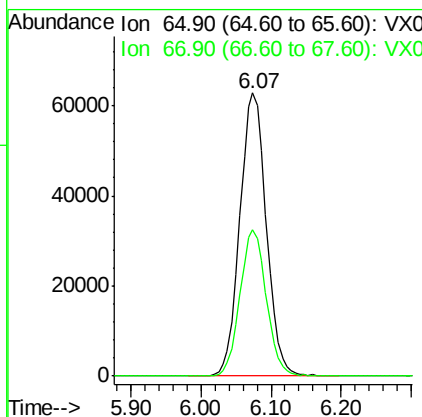
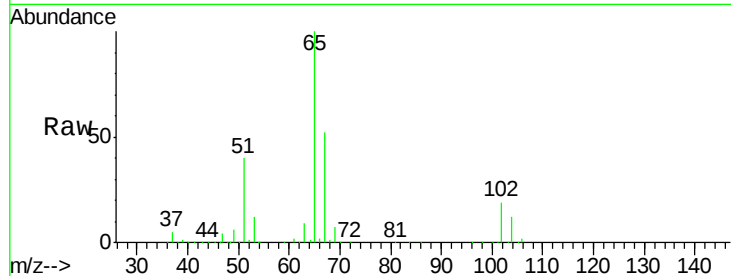




#33
 1,2-Dichloroethane-d4
 Concen: 57.12 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002515.D
 Acq: 13 Jun 2018 18:15

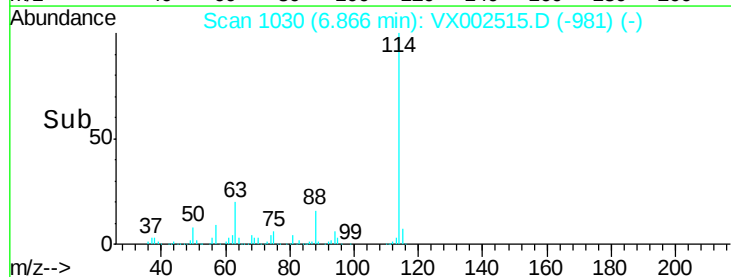
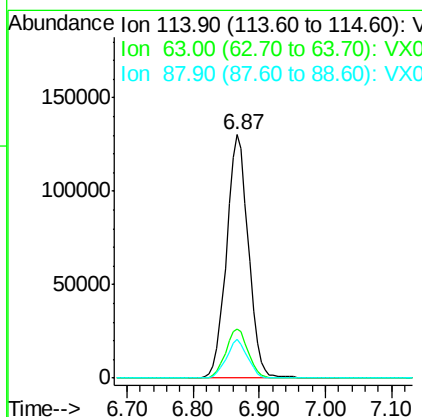
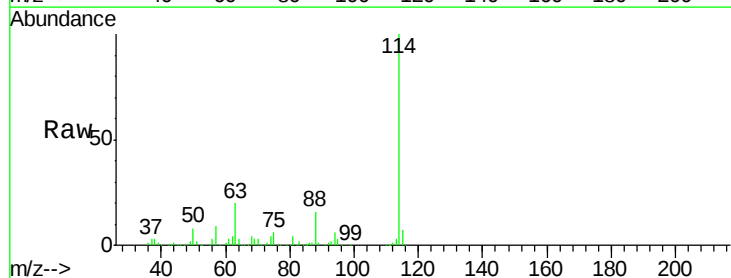
Instrument :
 MSVOA_X
 ClientSampleId :

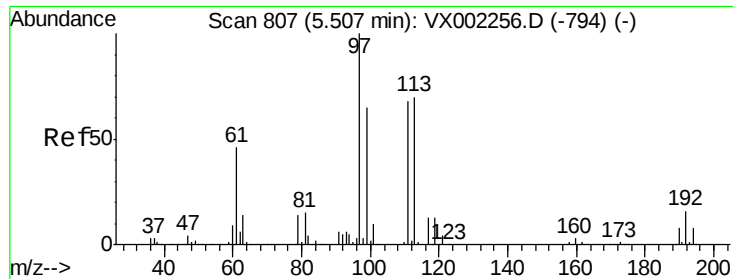
Tot Ion: 65 Resp: 165130
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002515.D
 Acq: 13 Jun 2018 18:15

Tgt Ion: 114 Resp: 298980
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.4
 88 15.8 0.0 30.0

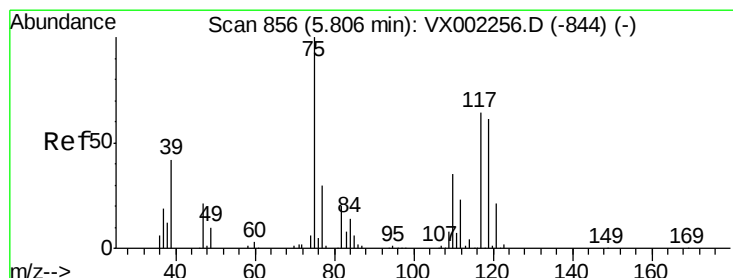
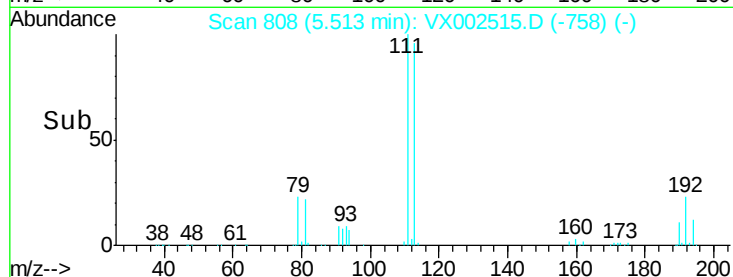
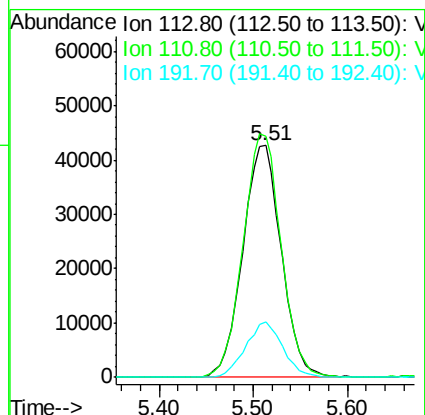
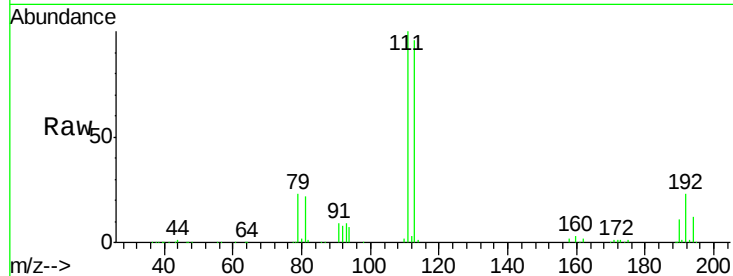




#35
 Dibromofluoromethane
 Concen: 52.02 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002515.D
 Acq: 13 Jun 2018 18:15

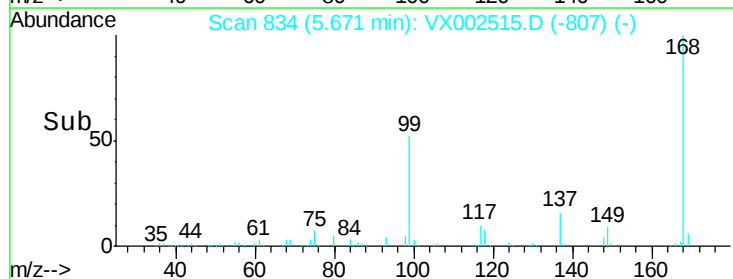
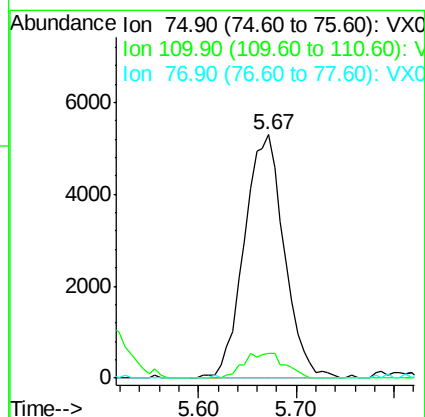
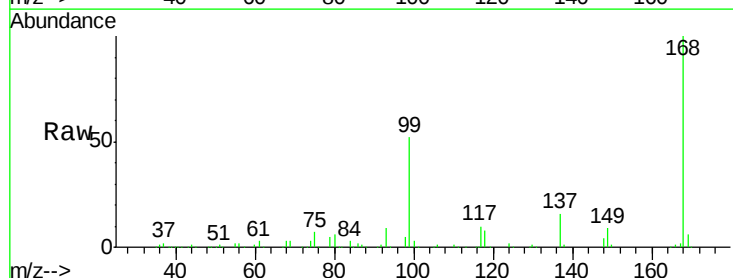
Instrument :
 MSVOA_X
 ClientSampled :

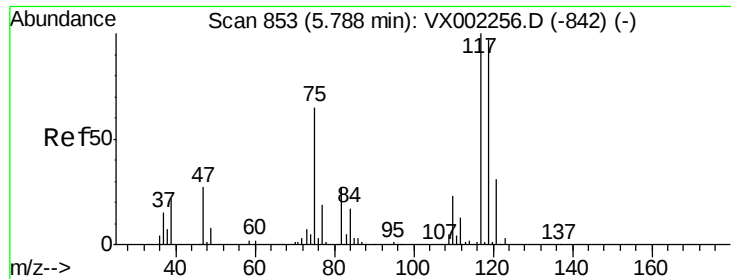
Tot Ion:113 Resp: 122308
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.4 122.0
 192 23.0 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.78 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002515.D
 Acq: 13 Jun 2018 18:15

Tgt Ion: 75 Resp: 15038
 Ion Ratio Lower Upper
 75 100
 110 10.5 18.1 54.4#
 77 0.0 24.3 36.5#

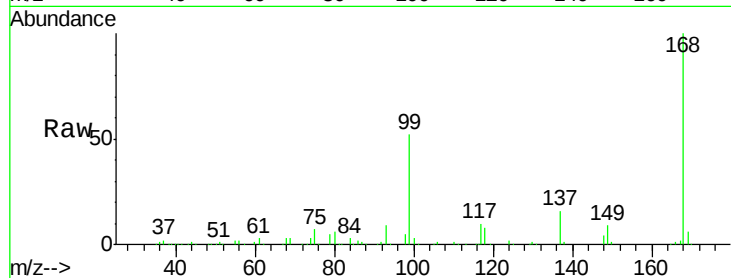




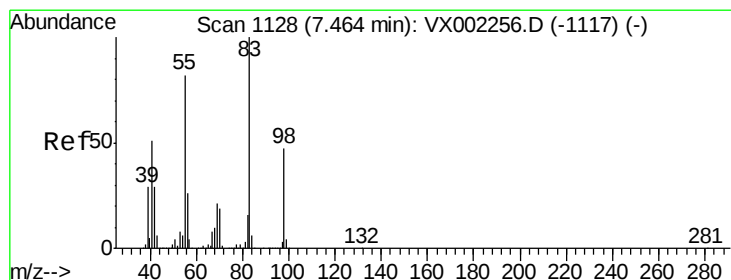
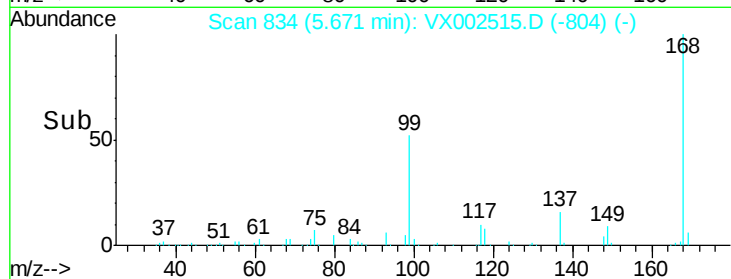
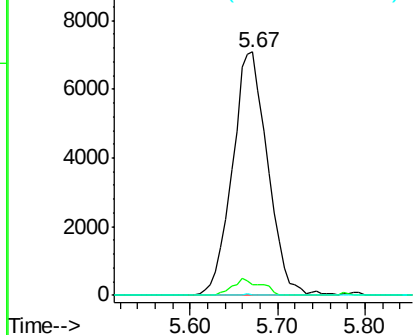
#38
Carbon Tetrachloride
Concen: 6.05 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 19893
Ion Ratio Lower Upper
117 100
119 4.6 77.4 116.0#
121 0.0 24.4 36.6#

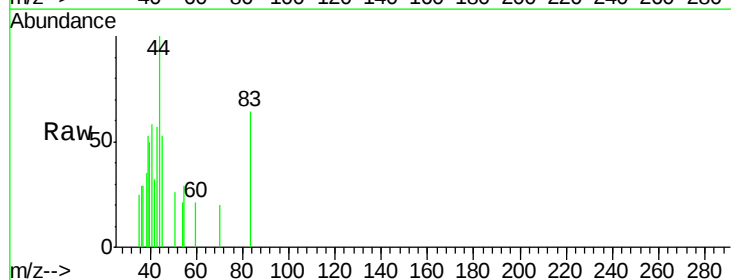


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

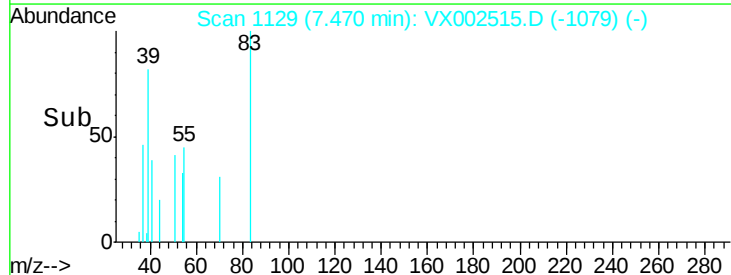
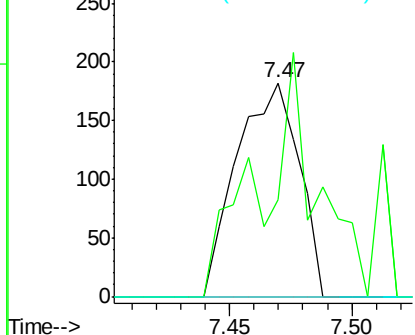


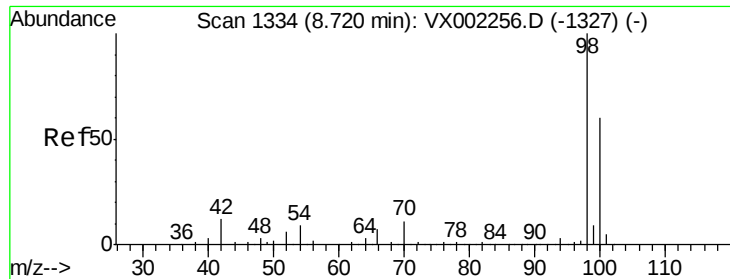
#39
Methylcyclohexane
Concen: 0.35 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

Tgt Ion: 83 Resp: 323
Ion Ratio Lower Upper
83 100
55 45.1 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





#50

Toluene-d8

Concen: 53.39 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002515.D

Acq: 13 Jun 2018 18:15

Instrument :

MSVOA_X

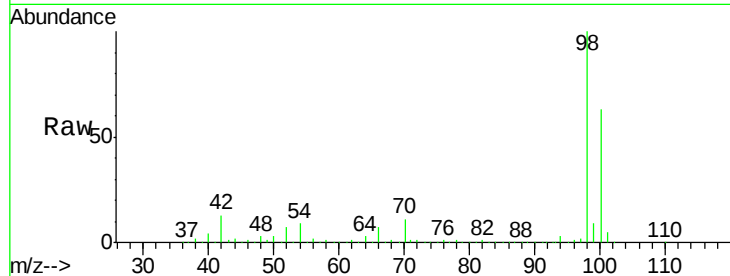
ClientSampleId :

Tot Ion: 98 Resp: 481132

Ion Ratio Lower Upper

98 100

100 62.7 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

300000

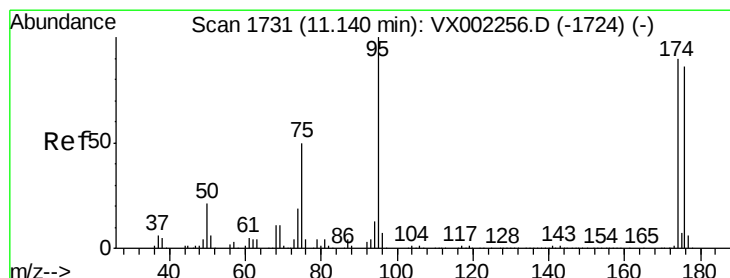
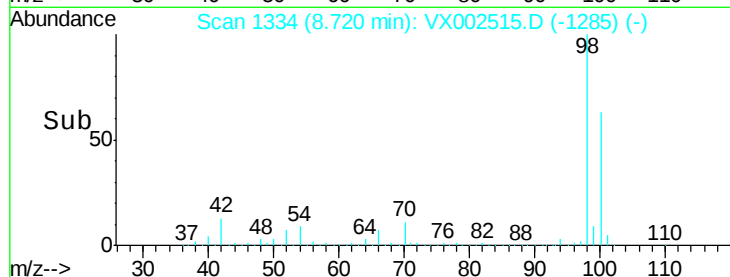
200000

100000

0

Time-->

8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 47.19 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002515.D

Acq: 13 Jun 2018 18:15

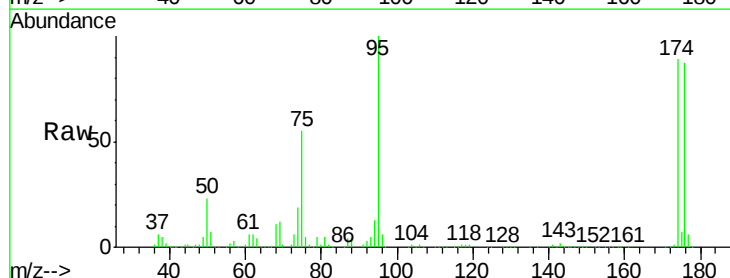
Tgt Ion: 95 Resp: 163992

Ion Ratio Lower Upper

95 100

174 94.6 0.0 187.4

176 91.3 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

11.14

150000

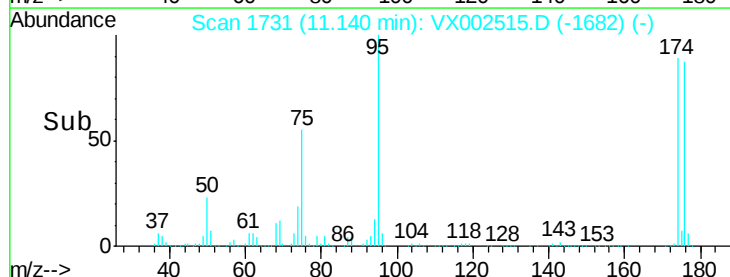
100000

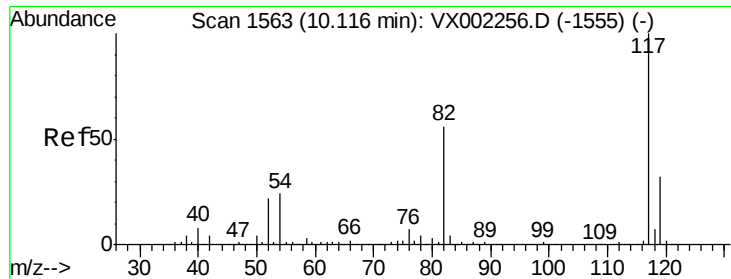
50000

0

Time-->

11.10 11.20

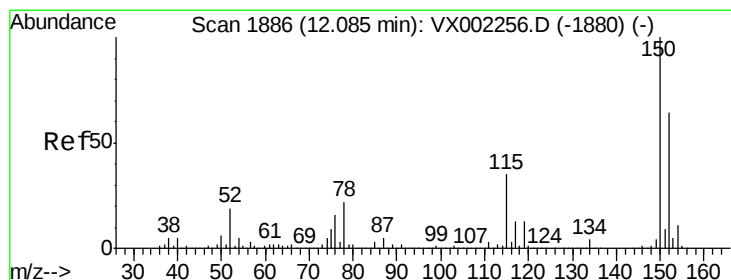
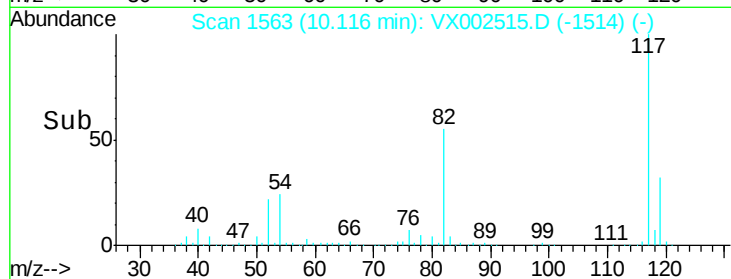
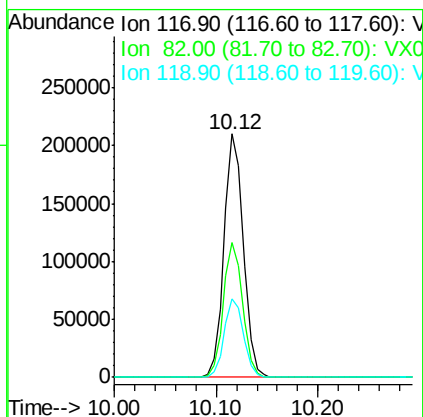
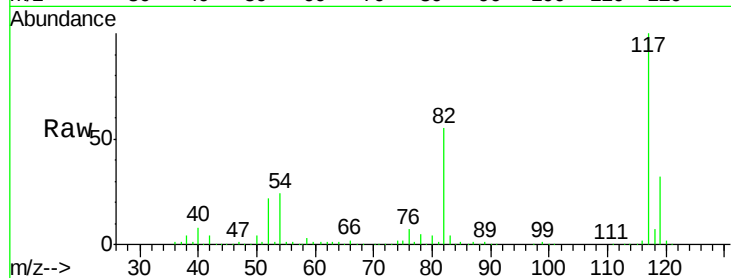




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

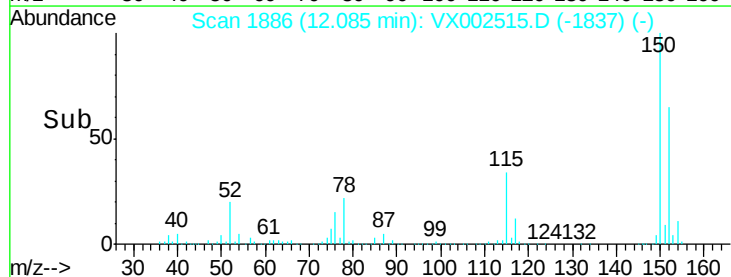
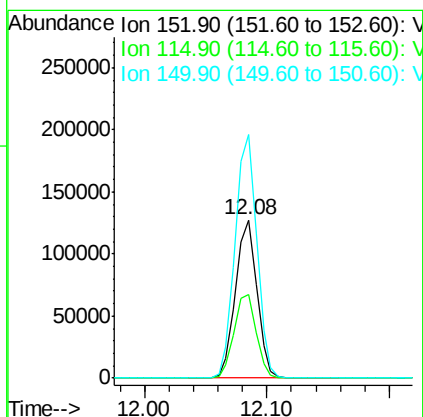
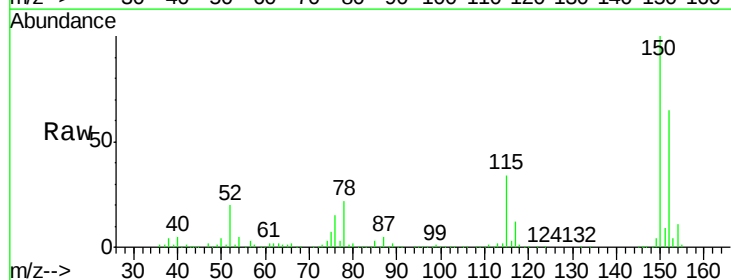
Instrument :
MSVOA_X
ClientSampled :

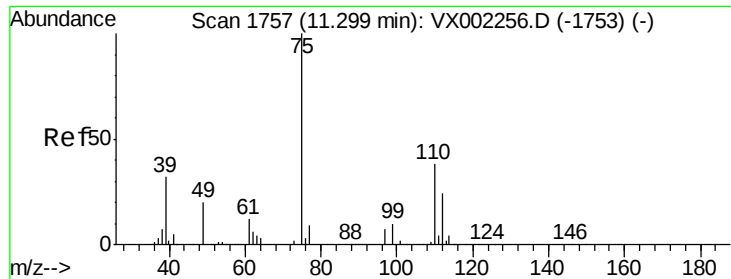
Tot Ion:117 Resp: 276965
Ion Ratio Lower Upper
117 100
82 55.3 45.0 67.4
119 32.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002515.D
Acq: 13 Jun 2018 18:15

Tgt Ion:152 Resp: 153972
Ion Ratio Lower Upper
152 100
115 54.4 40.1 120.2
150 156.0 0.0 347.2

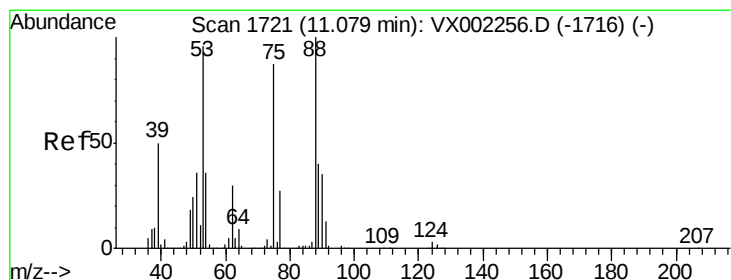
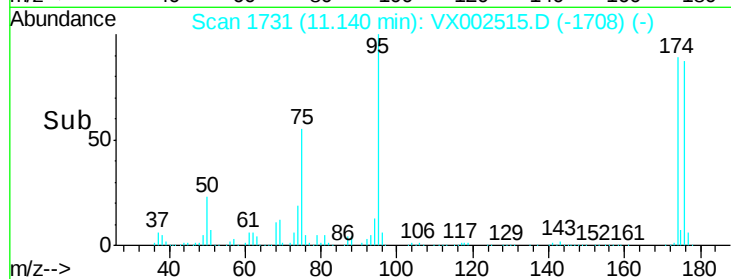
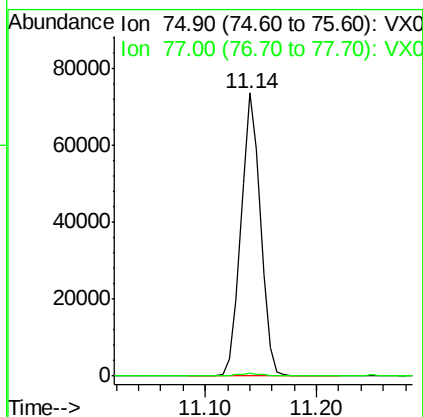
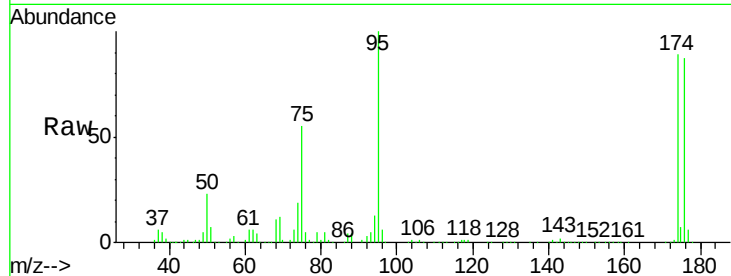




#76
 1,2,3-Trichloropropane
 Concen: 26.45 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002515.D
 Acq: 13 Jun 2018 18:15

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 89371
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.73 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002515.D
 Acq: 13 Jun 2018 18:15

Tgt Ion: 75 Resp: 89371
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.8 130.2#
 89 0.1 38.2 57.2#

