

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060618\
 Data File : VX002359.D
 Acq On : 06 Jun 2018 18:09
 Operator : JC/MD
 Sample : J3312-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 07 03:24:58 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	236186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	348010	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	313915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171215	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	165746	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	5.51	113	123846	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
50) Toluene-d8	8.72	98	497887	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
62) 4-Bromofluorobenzene	11.14	95	171126	42.30	ug/l	0.00
Spiked Amount			Recovery	=	84.60%	

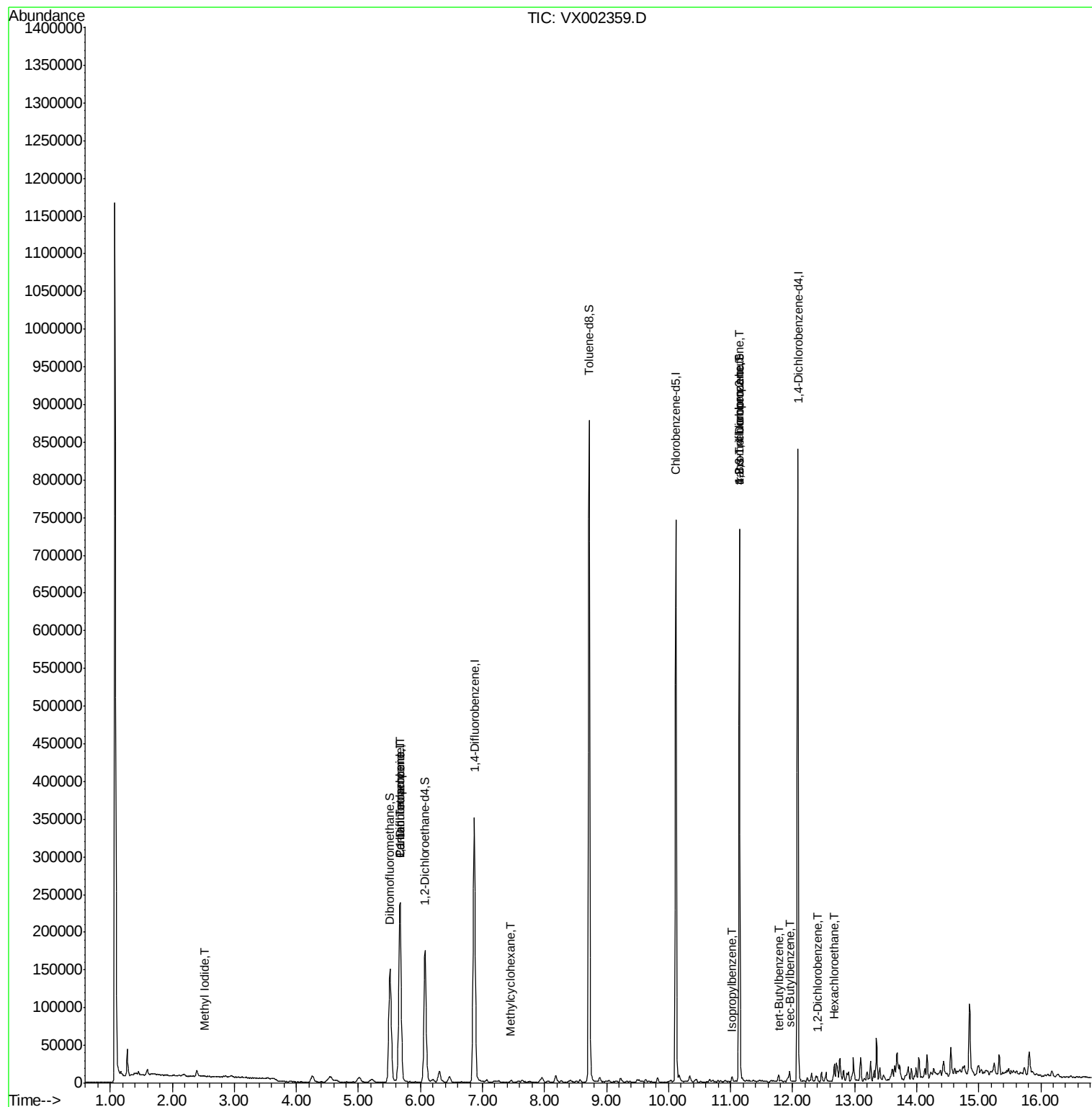
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	499	Below Cal	#	27
5) Bromomethane	1.65	94	981	Below Cal		86
8) Diethyl Ether	2.25	74	22	Below Cal		62
10) Methyl Iodide	2.52	142	1065	0.30	ug/l	93
11) Tert butyl alcohol	3.07	59	588	Below Cal	#	37
13) Acrolein	2.30	56	50	Below Cal	#	63
15) Acrylonitrile	3.12	53	364	Below Cal	#	29
16) Acetone	2.45	43	868	Below Cal		92
18) Methyl Acetate	2.77	43	58	Below Cal	#	27
19) Methyl tert-butyl Ether	3.22	73	117	Below Cal	#	54
20) Methylene Chloride	2.87	84	509	Below Cal	#	56
22) Diisopropyl ether	3.89	45	81	Below Cal	#	61
28) Bromochloromethane	5.15	49	22	Below Cal	#	13
36) 1,1-Dichloropropene	5.67	75	17098	4.67	ug/l	50
38) Carbon Tetrachloride	5.67	117	22395	5.85	ug/l	16
39) Methylcyclohexane	7.46	83	1020	0.49	ug/l	60
73) Isopropylbenzene	11.02	105	2978	0.25	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	92161	24.53	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	92161	85.99	ug/l	7
83) tert-Butylbenzene	11.77	119	2857	0.29	ug/l	88
85) sec-Butylbenzene	11.95	105	5875	0.50	ug/l	79
90) Hexachloroethane	12.67	117	1011	0.60	ug/l	1
91) 1,2-Dichlorobenzene	12.40	146	1271	0.21	ug/l	98

(#) = 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: VX002359.D

Acq: 06 Jun 2018 18:09

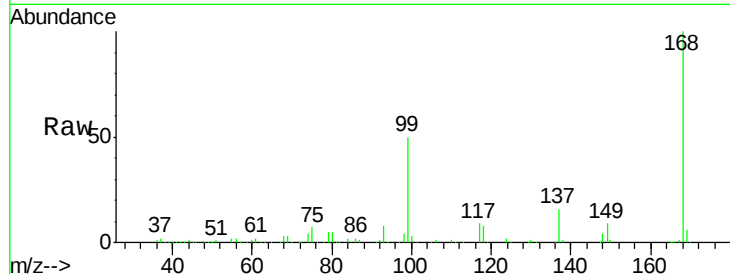
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 236186

Ion Ratio Lower Upper

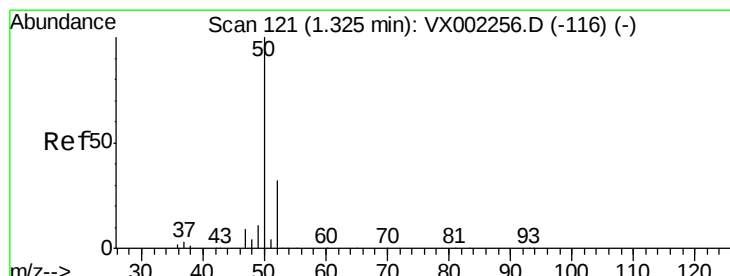
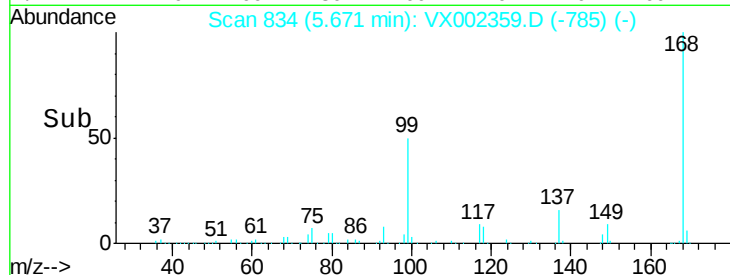
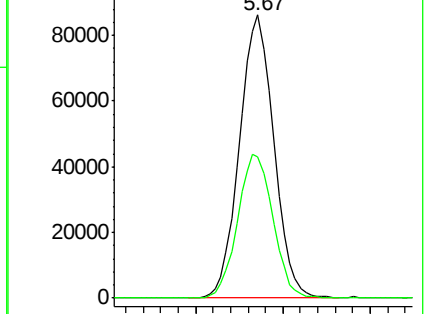
168 100

99 49.7 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: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002359.D

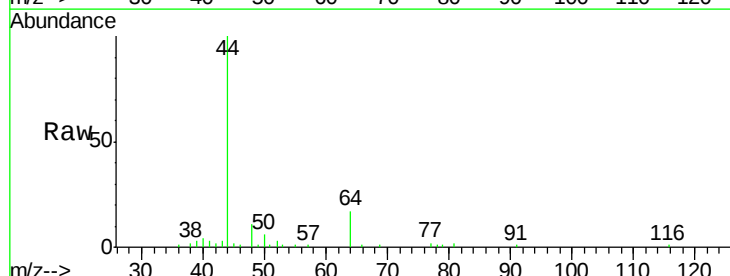
Acq: 06 Jun 2018 18:09

Tgt Ion: 50 Resp: 499

Ion Ratio Lower Upper

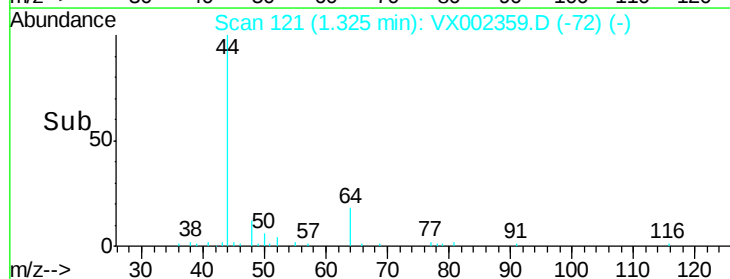
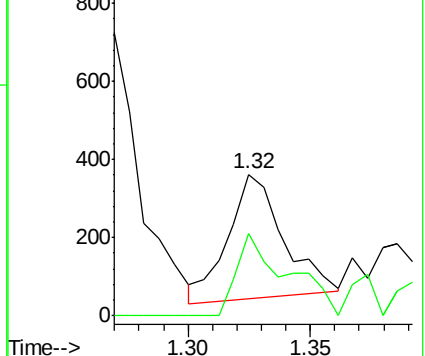
50 100

52 72.6 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: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002359.D

Acq: 06 Jun 2018 18:09

Instrument :

MSVOA_X

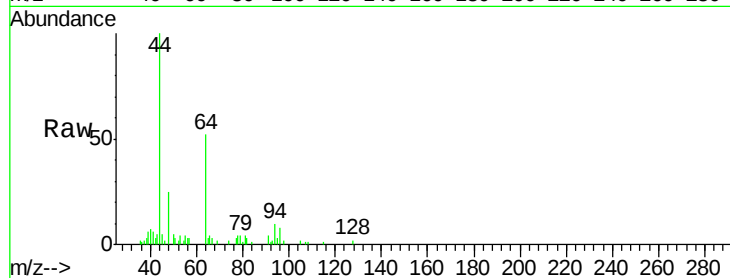
ClientSampled :

Tot Ion: 94 Resp: 981

Ion Ratio Lower Upper

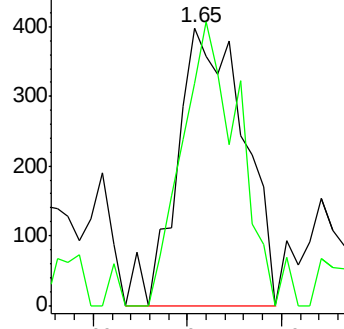
94 100

96 80.2 74.9 112.3

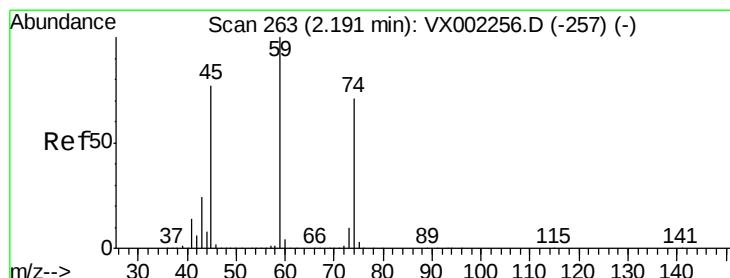
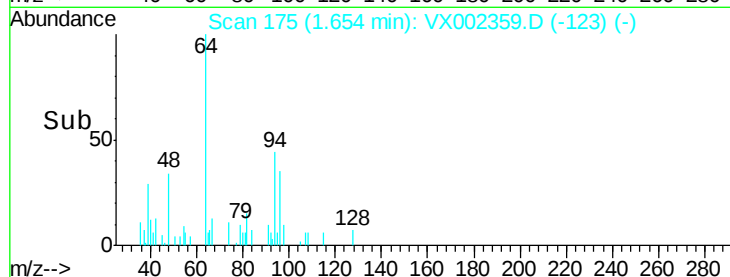


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.25 min Scan# 272

Delta R.T. 0.06 min

Lab File: VX002359.D

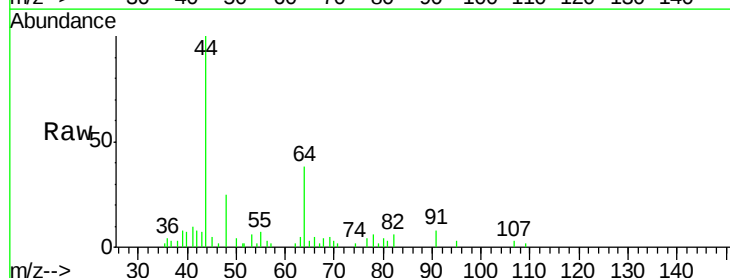
Acq: 06 Jun 2018 18:09

Tgt Ion: 74 Resp: 22

Ion Ratio Lower Upper

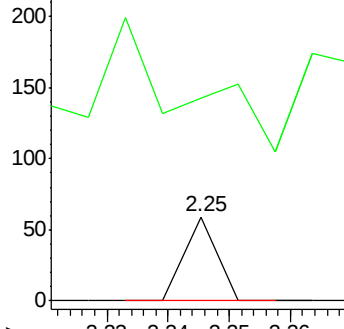
74 100

45 145.5 53.1 159.4

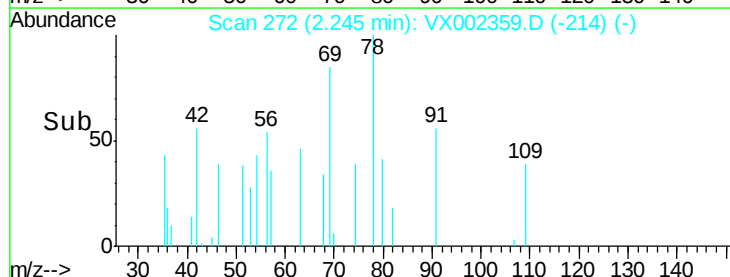


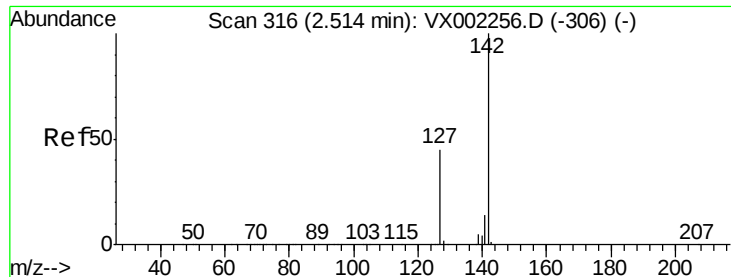
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->

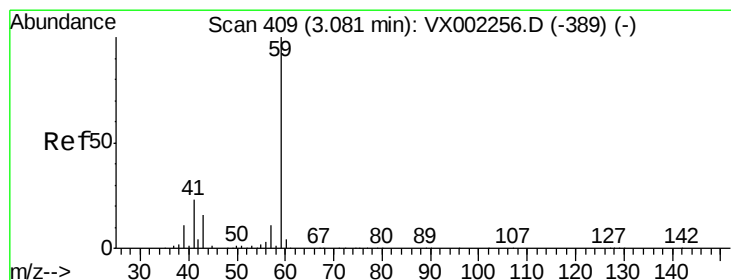
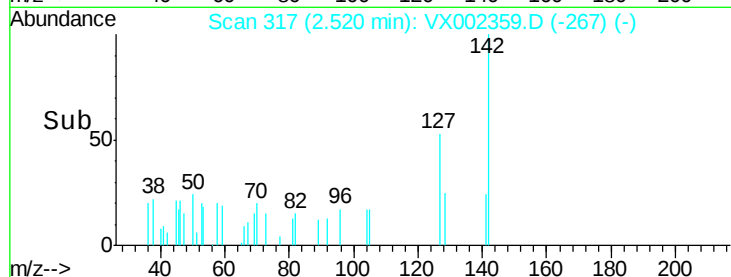
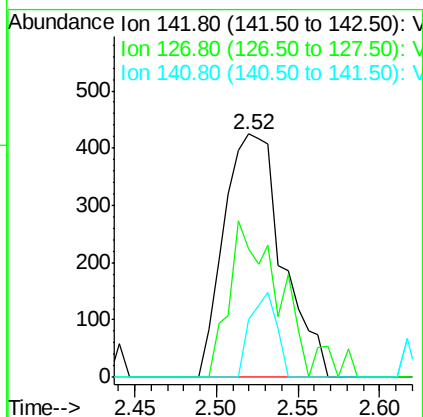
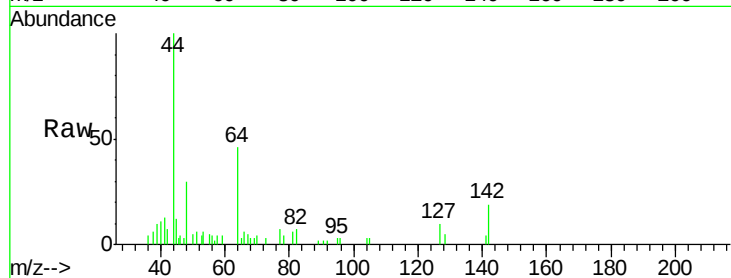




#10
Methvl Iodide
Concen: 0.30 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

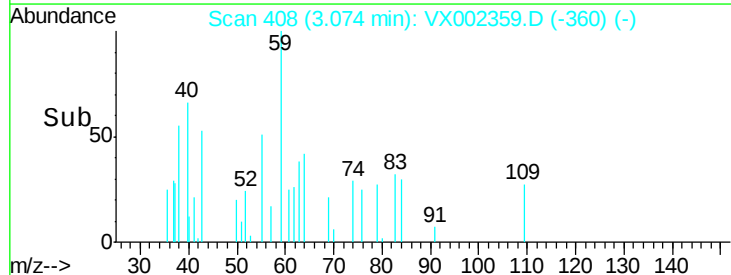
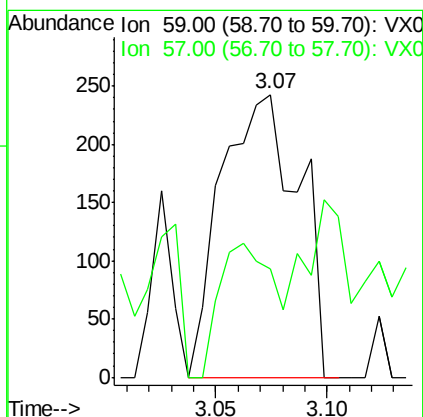
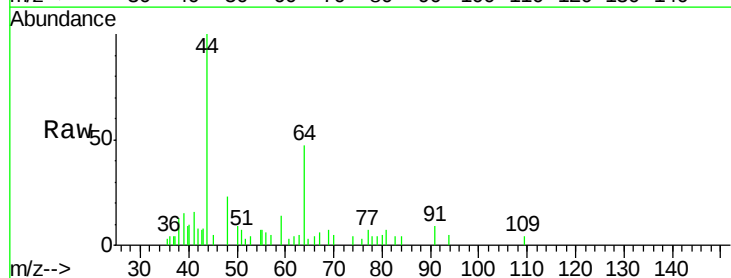
Instrument :
MSVOA_X
ClientSampleId :

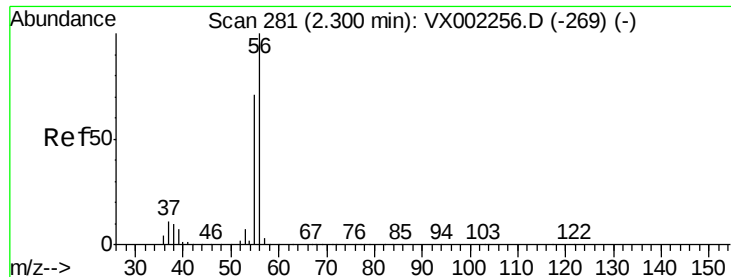
Tot Ion:142 Resp: 1065
Ion Ratio Lower Upper
142 100
127 51.4 36.6 55.0
141 15.9 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

Tgt Ion: 59 Resp: 588
Ion Ratio Lower Upper
59 100
57 33.5 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002359.D

Acq: 06 Jun 2018 18:09

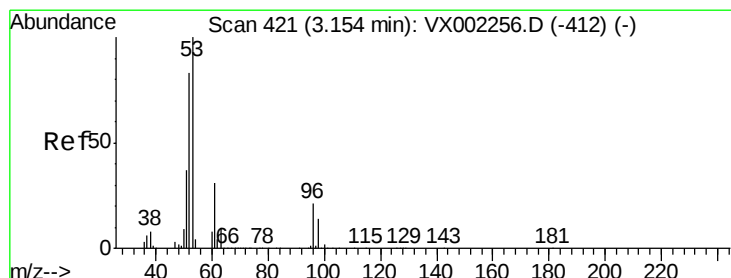
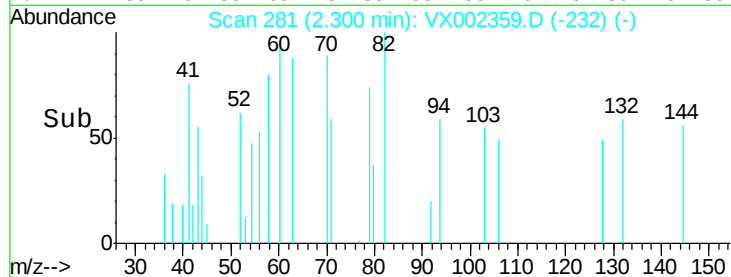
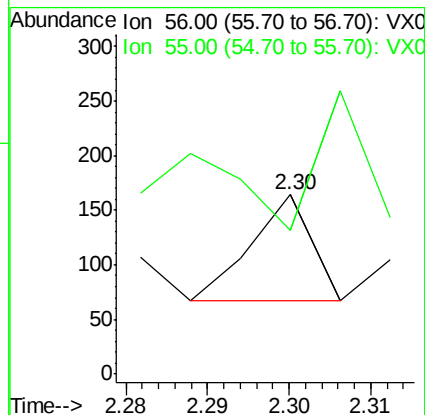
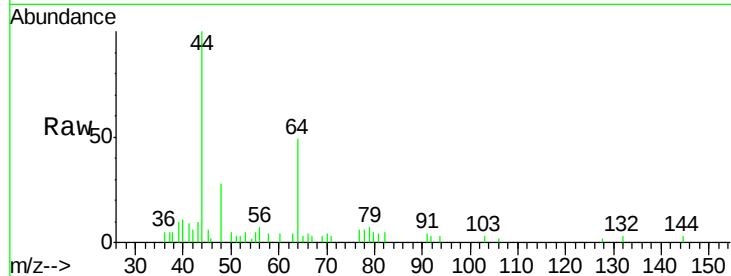
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 50

Ion Ratio Lower Upper

56 100

55 102.0 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.12 min Scan# 416

Delta R.T. -0.03 min

Lab File: VX002359.D

Acq: 06 Jun 2018 18:09

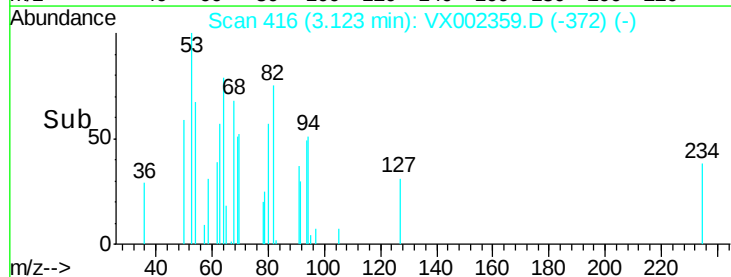
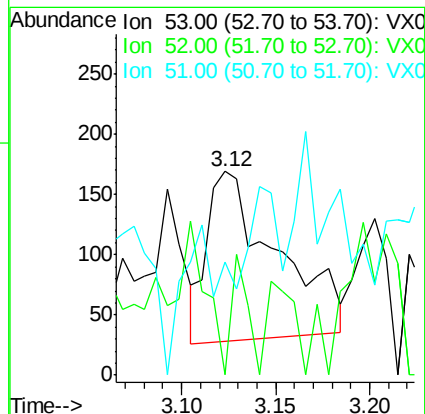
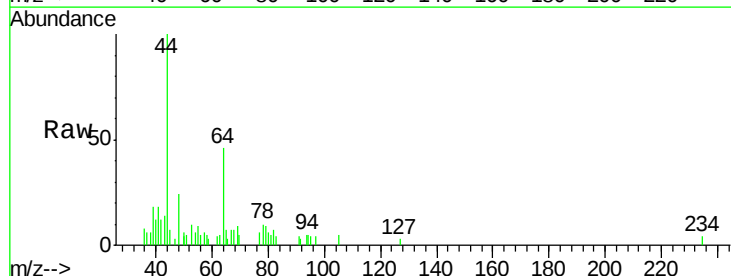
Tgt Ion: 53 Resp: 364

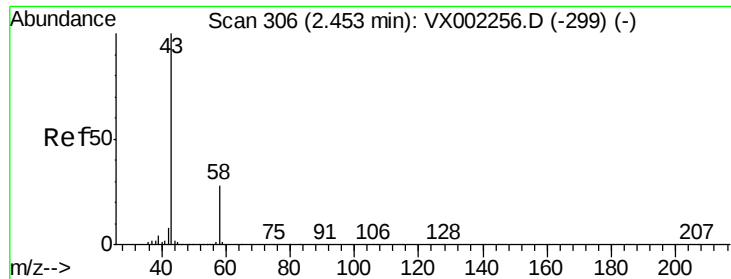
Ion Ratio Lower Upper

53 100

52 15.9 66.7 100.1#

51 0.0 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002359.D

Acq: 06 Jun 2018 18:09

Instrument :

MSVOA_X

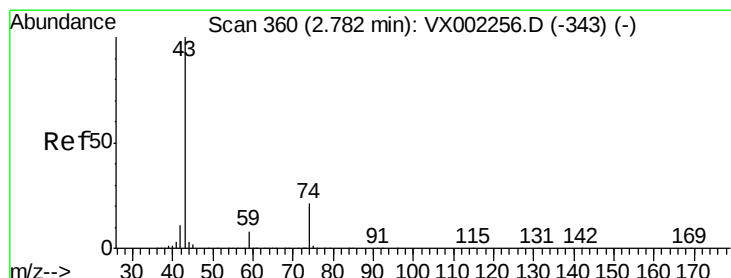
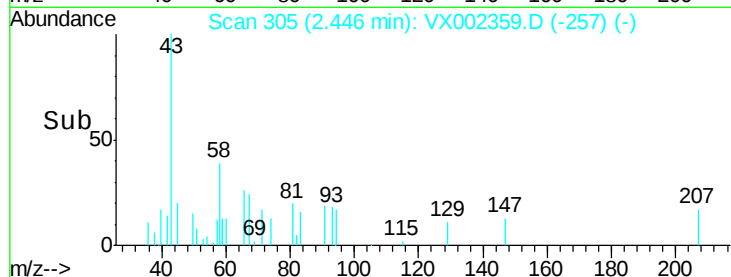
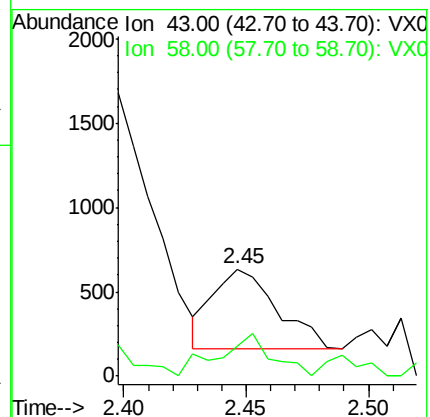
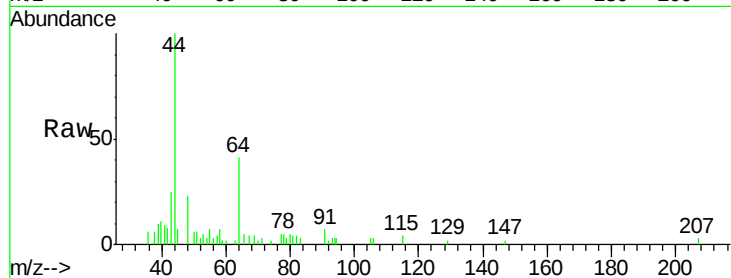
ClientSampled :

Tot Ion: 43 Resp: 868

Ion Ratio Lower Upper

43 100

58 23.4 22.1 33.1



#18

Methyl Acetate

Concen: Below Cal

RT: 2.77 min Scan# 358

Delta R.T. -0.01 min

Lab File: VX002359.D

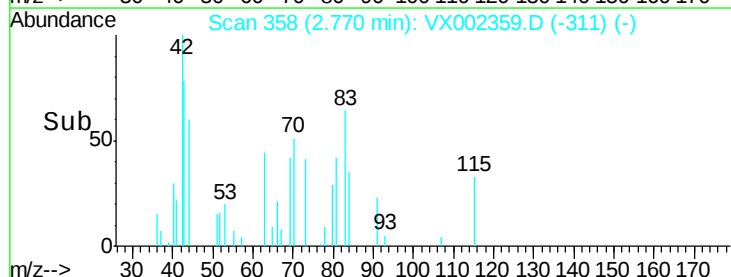
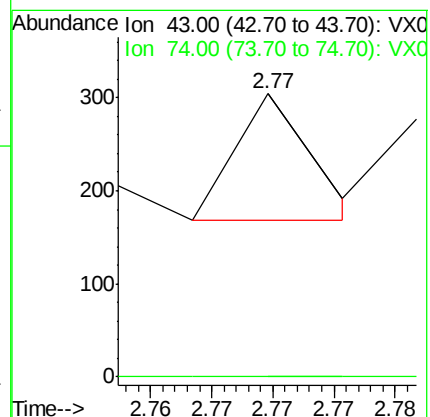
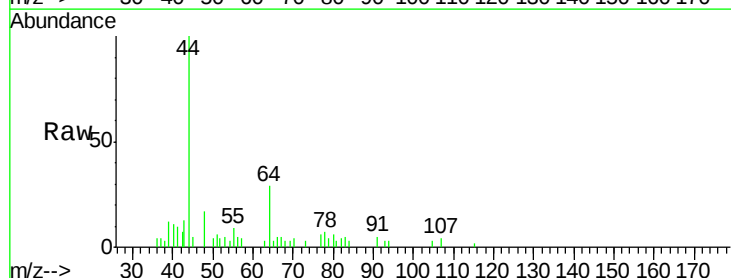
Acq: 06 Jun 2018 18:09

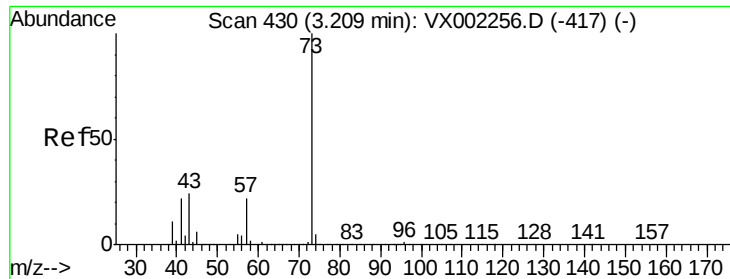
Tgt Ion: 43 Resp: 58

Ion Ratio Lower Upper

43 100

74 55.2 16.7 25.1#



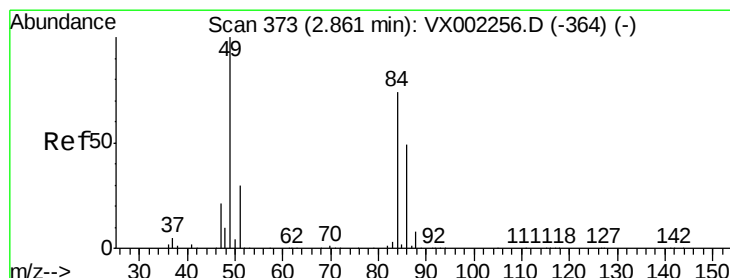
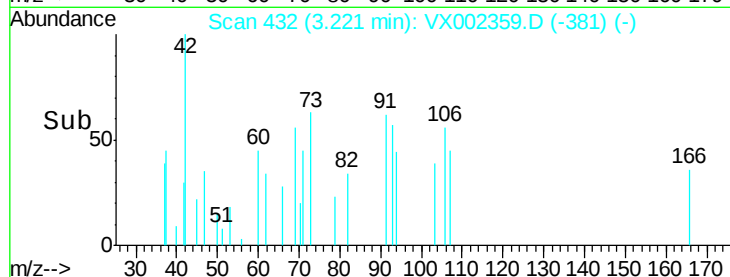
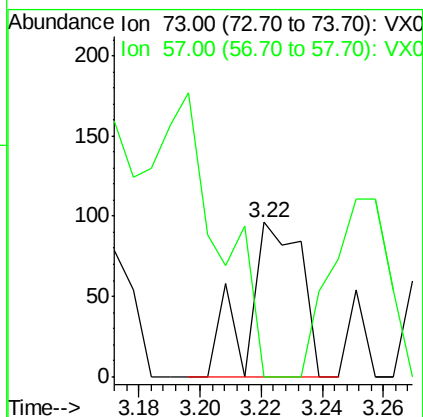
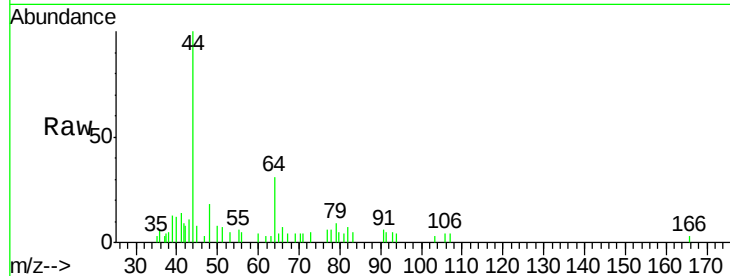


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.22 min Scan# 432
Delta R.T. 0.01 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

Instrument :
MSVOA_X
ClientSampled :

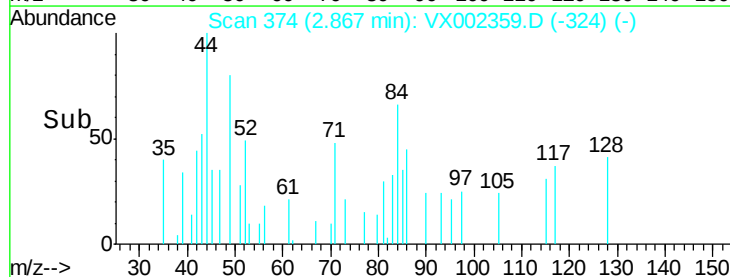
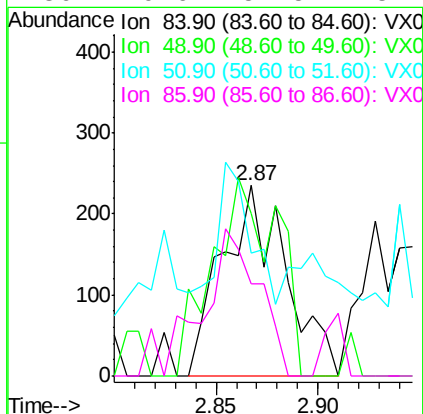
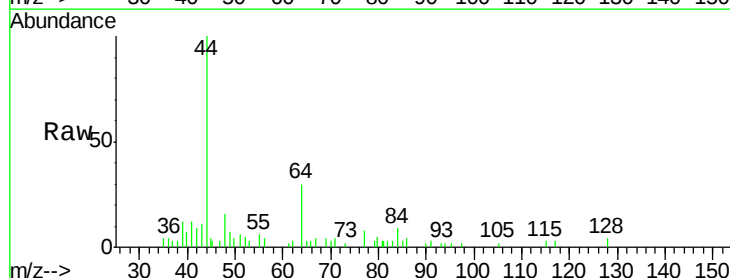
Tot Ion: 73 Resp: 117
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

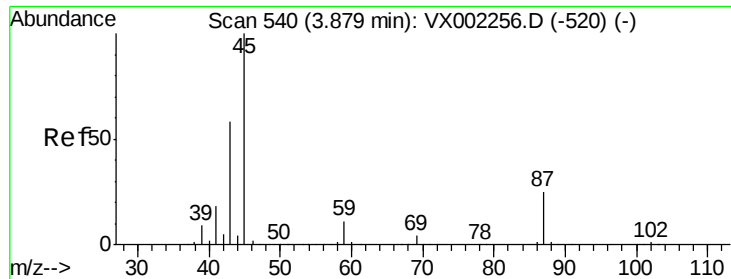


#20

Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

Tgt Ion: 84 Resp: 509
Ion Ratio Lower Upper
84 100
49 85.5 107.8 161.6#
51 20.4 32.8 49.2#
86 19.6 52.5 78.7#

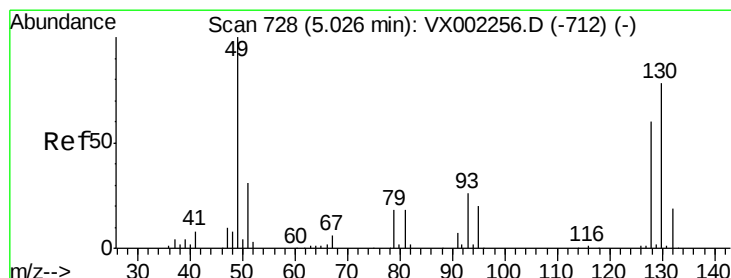
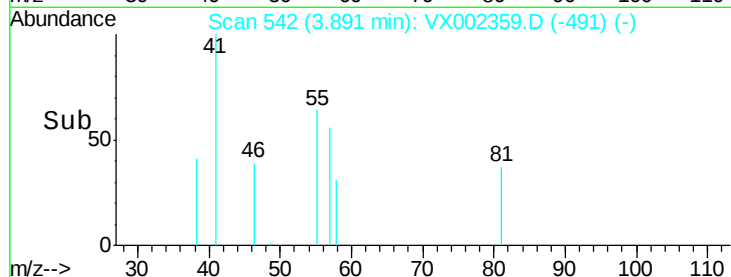
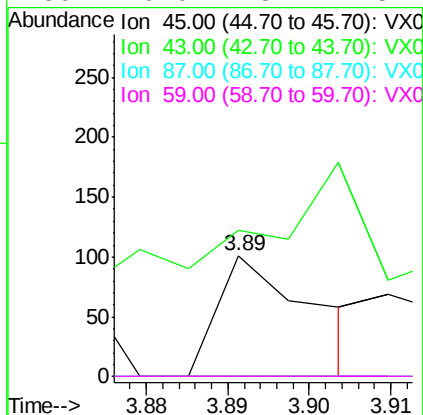
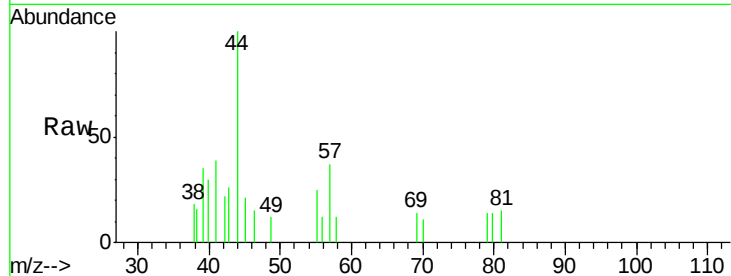




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 542
Delta R.T. 0.01 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

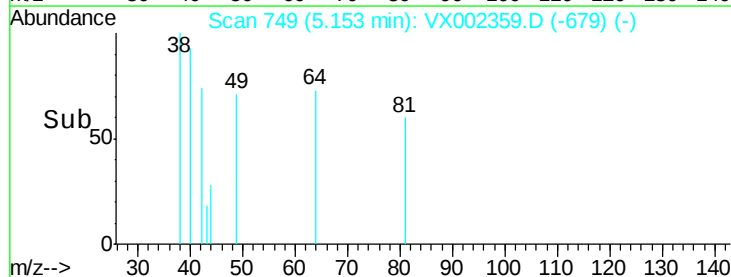
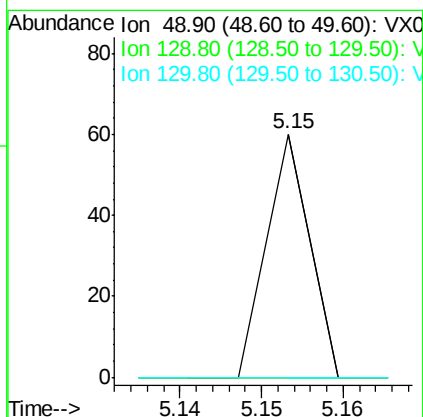
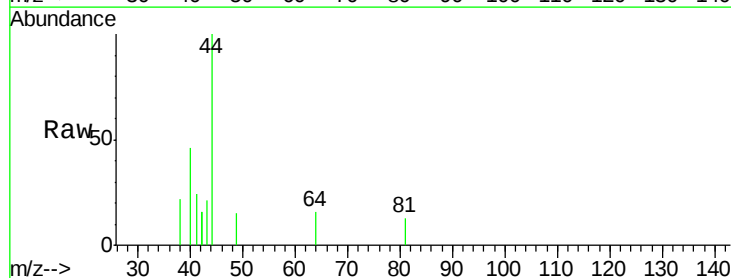
Instrument :
MSVOA_X
ClientSampled :

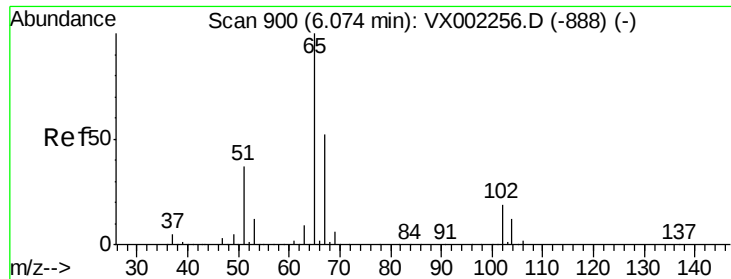
Tot Ion: 45 Resp: 81
Ion Ratio Lower Upper
45 100
43 31.7 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#



#28
Bromochloromethane
Concen: Below Cal
RT: 5.15 min Scan# 749
Delta R.T. 0.13 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

Tgt Ion: 49 Resp: 22
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#

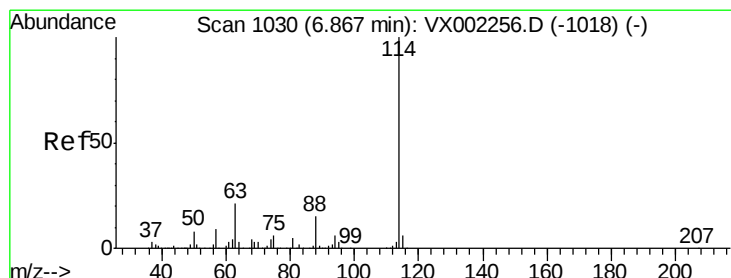
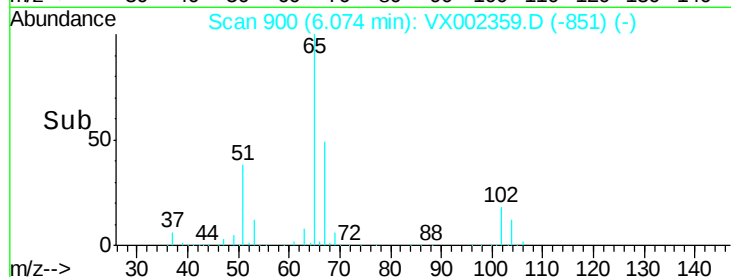
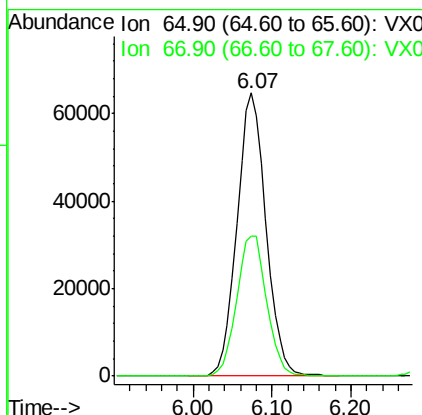
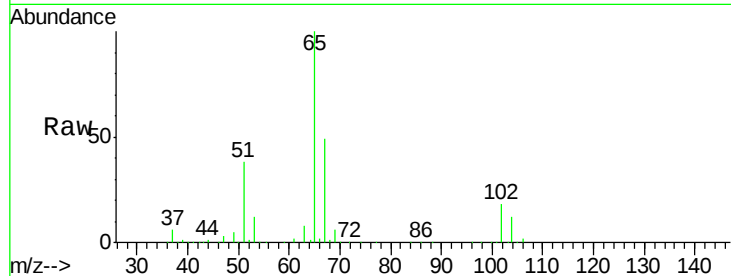




#33
 1,2-Dichloroethane-d4
 Concen: 49.01 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002359.D
 Acq: 06 Jun 2018 18:09

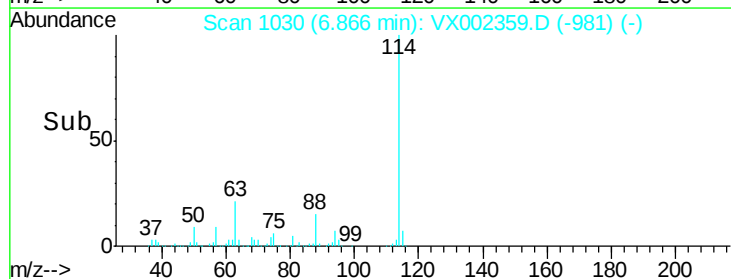
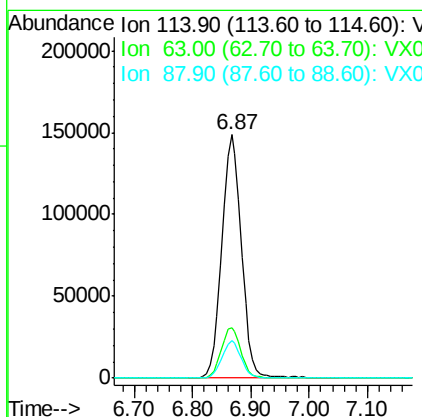
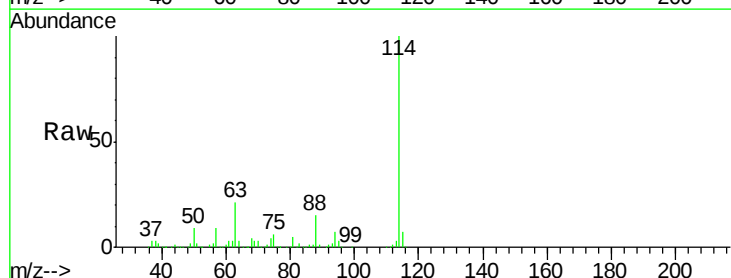
Instrument :
 MSVOA_X
 ClientSampleId :

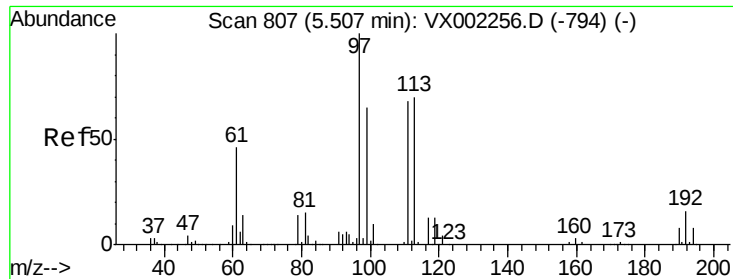
Tot Ion: 65 Resp: 165746
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002359.D
 Acq: 06 Jun 2018 18:09

Tgt Ion: 114 Resp: 348010
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.4
 88 15.3 0.0 30.0

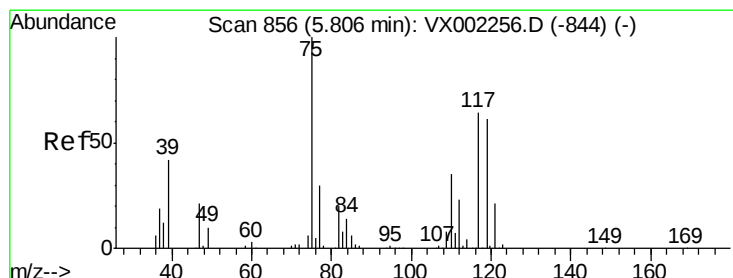
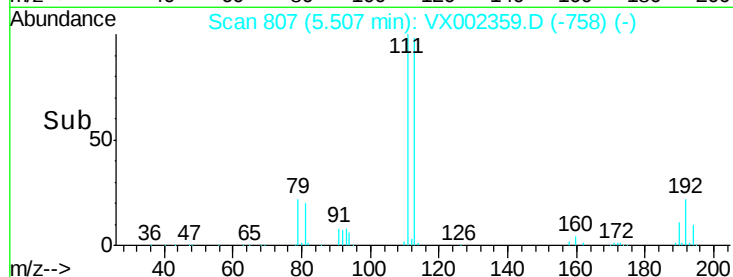
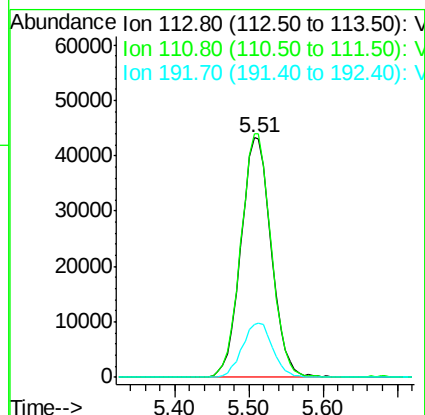
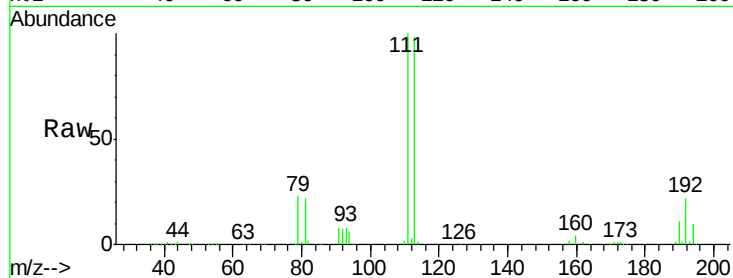




#35
 Dibromofluoromethane
 Concen: 45.25 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002359.D
 Acq: 06 Jun 2018 18:09

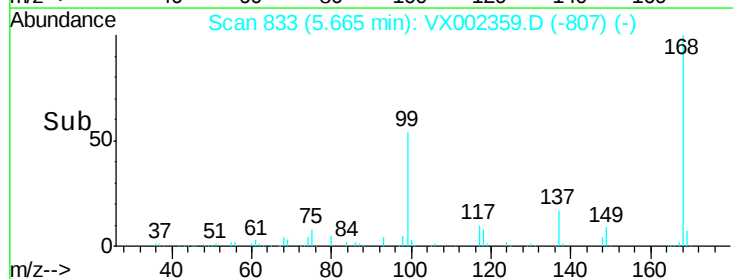
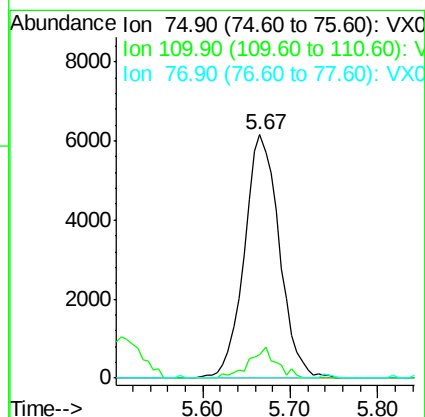
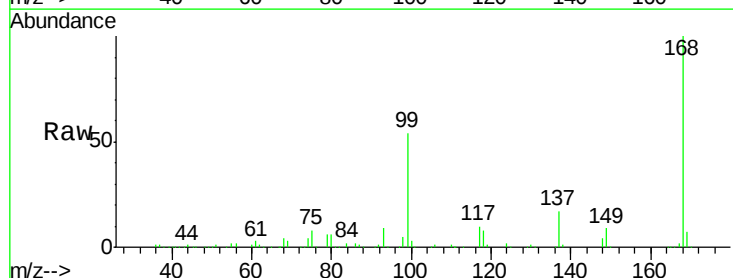
Instrument :
 MSVOA_X
 ClientSampled :

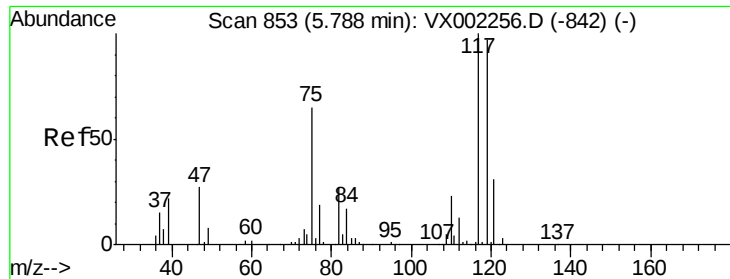
Tot Ion:113 Resp: 123846
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.4 122.0
 192 22.8 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.67 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002359.D
 Acq: 06 Jun 2018 18:09

Tgt Ion: 75 Resp: 17098
 Ion Ratio Lower Upper
 75 100
 110 10.0 18.1 54.4#
 77 0.0 24.3 36.5#

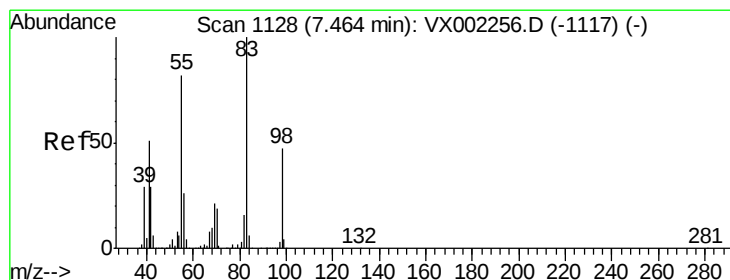
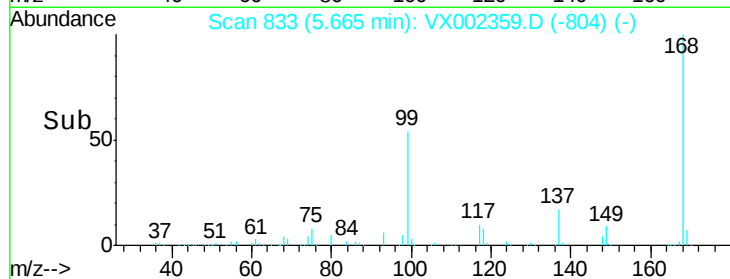
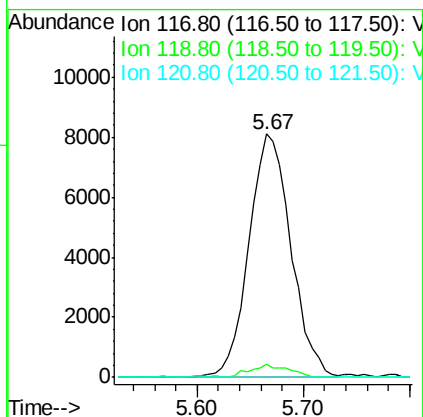
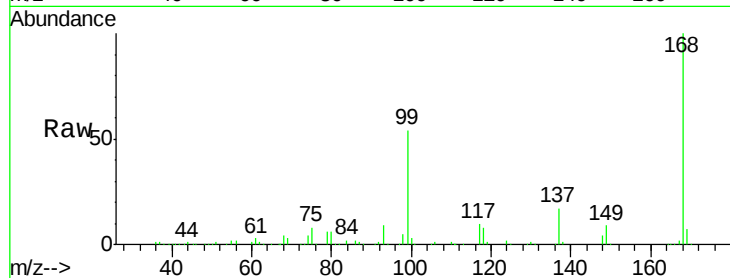




#38
Carbon Tetrachloride
Concen: 5.85 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

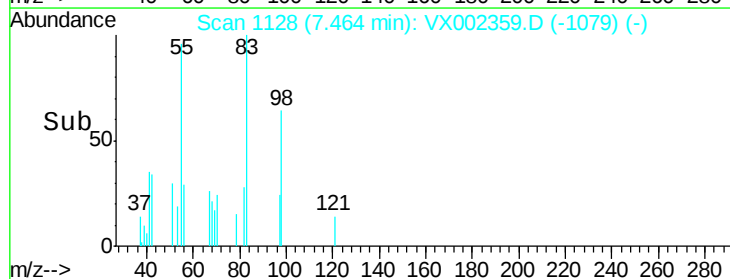
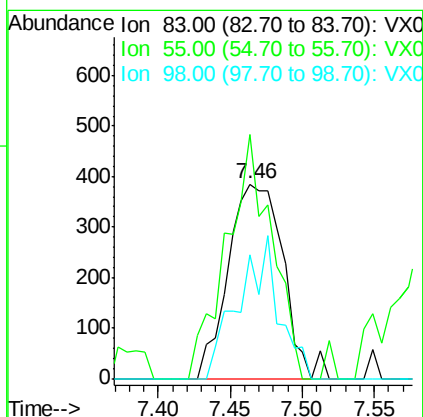
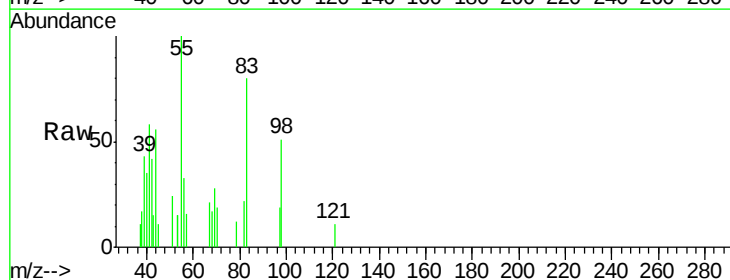
Instrument :
MSVOA_X
ClientSampleId :

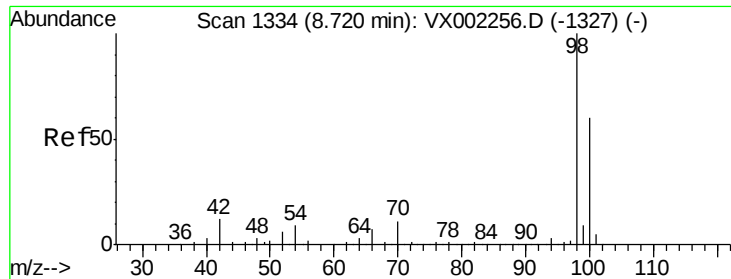
Tot Ion:117 Resp: 22395
Ion Ratio Lower Upper
117 100
119 5.5 77.4 116.0#
121 0.0 24.4 36.6#



#39
Methylcyclohexane
Concen: 0.49 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

Tgt Ion: 83 Resp: 1020
Ion Ratio Lower Upper
83 100
55 125.5 65.4 98.0#
98 63.6 37.4 56.0#

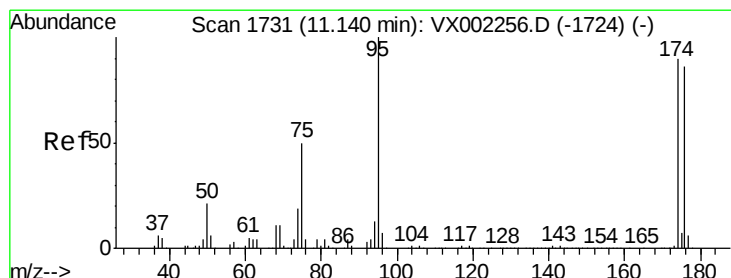
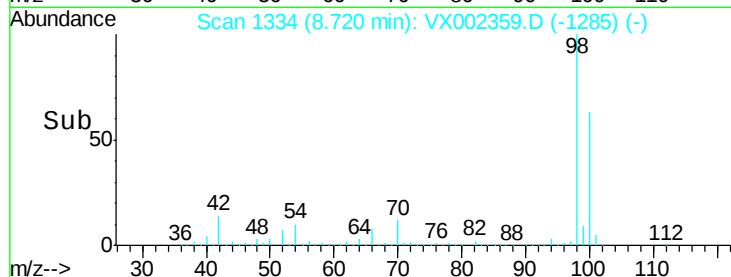
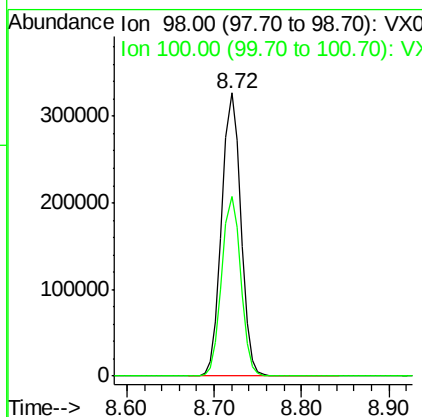
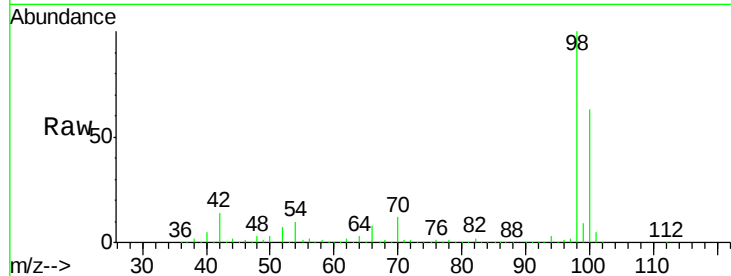




#50
Toluene-d8
Concen: 47.46 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

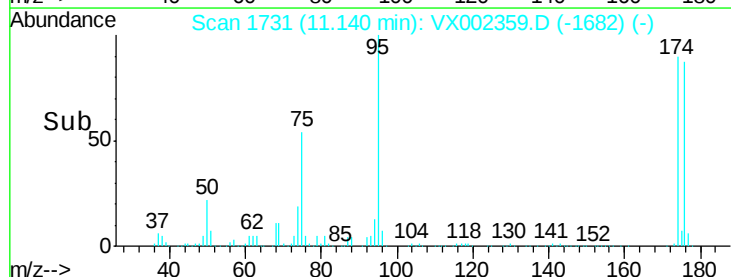
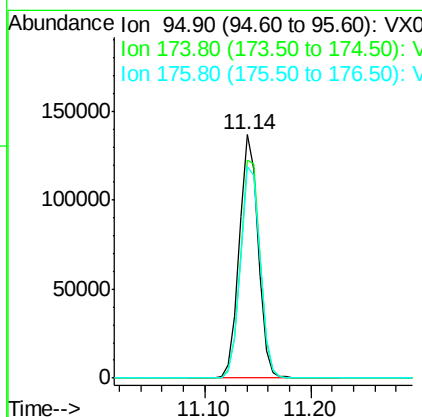
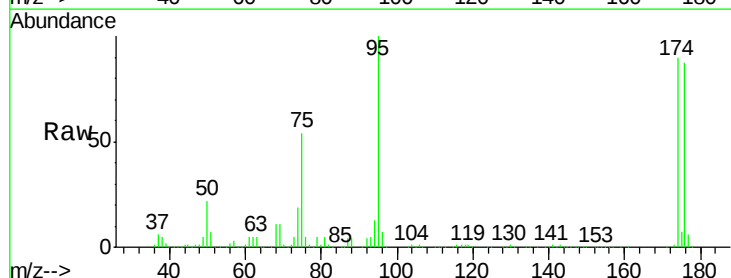
Instrument :
MSVOA_X
ClientSampleId :

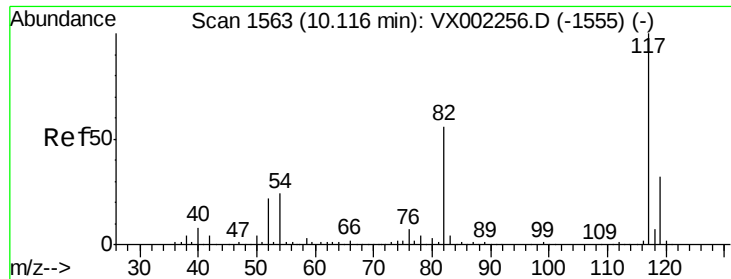
Tot Ion: 98 Resp: 497887
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 42.30 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

Tgt Ion: 95 Resp: 171126
Ion Ratio Lower Upper
95 100
174 93.3 0.0 187.4
176 90.4 0.0 181.0

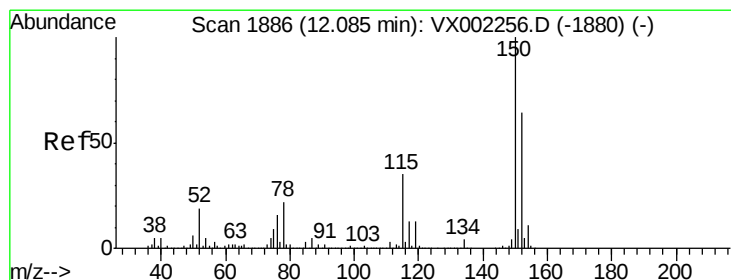
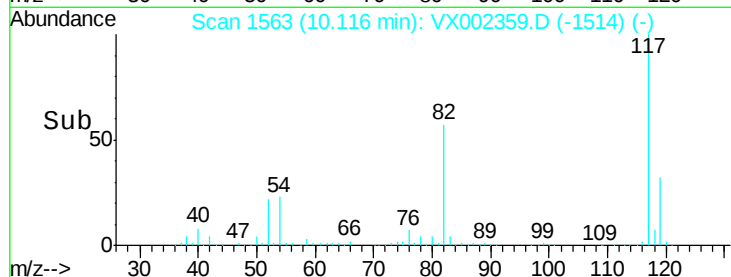
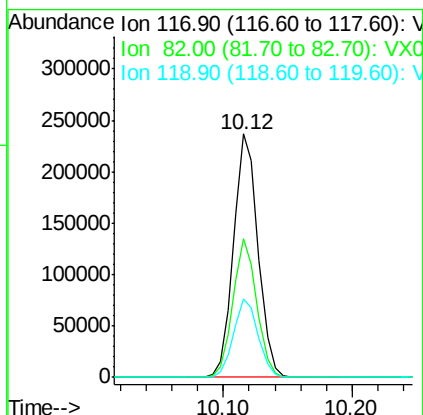
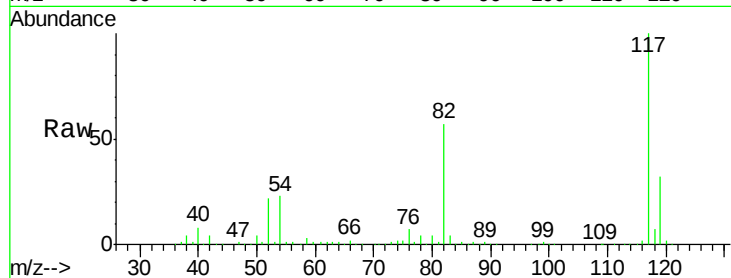




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

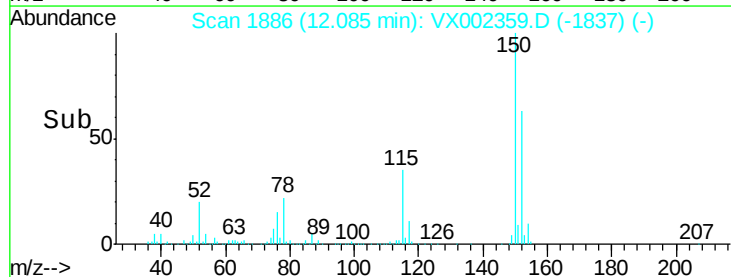
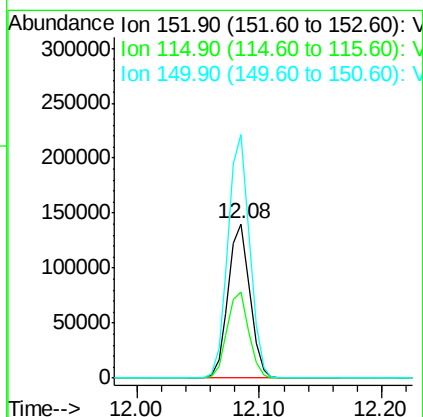
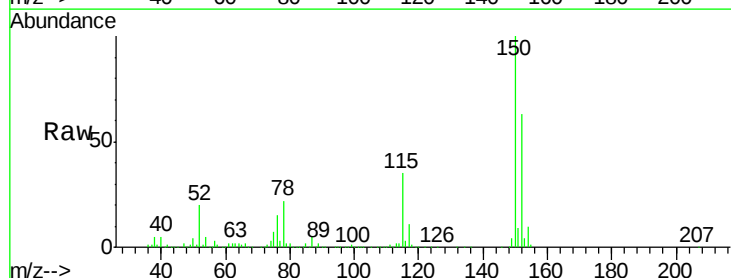
Instrument :
MSVOA_X
ClientSampleId :

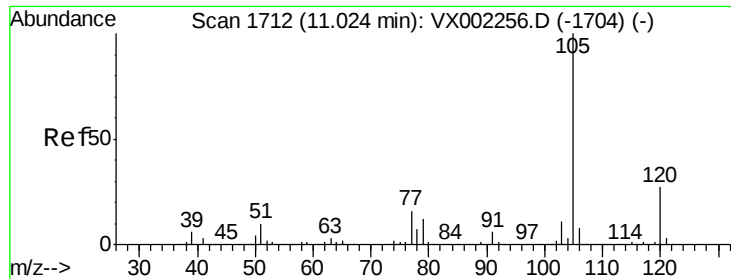
Tot Ion:117 Resp: 313915
Ion Ratio Lower Upper
117 100
82 56.8 45.0 67.4
119 32.2 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002359.D
Acq: 06 Jun 2018 18:09

Tgt Ion:152 Resp: 171215
Ion Ratio Lower Upper
152 100
115 55.6 40.1 120.2
150 157.9 0.0 347.2





#73

Isopropylbenzene

Concen: 0.25 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. -0.00 min

Lab File: VX002359.D

Acq: 06 Jun 2018 18:09

Instrument :

MSVOA_X

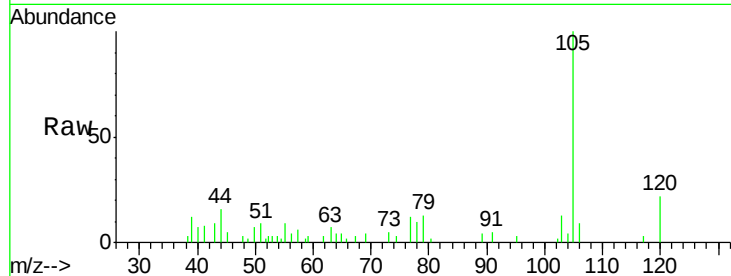
ClientSampled :

Tot Ion:105 Resp: 2978

Ion Ratio Lower Upper

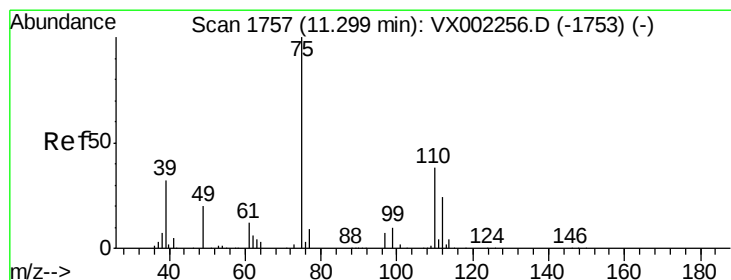
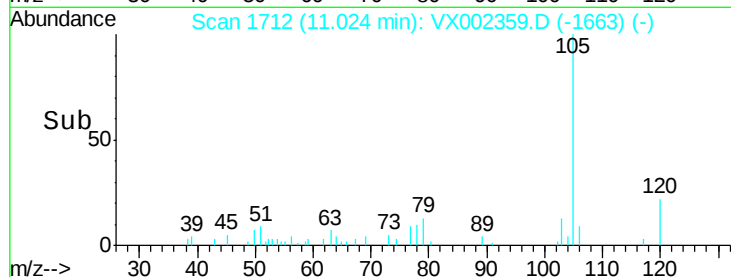
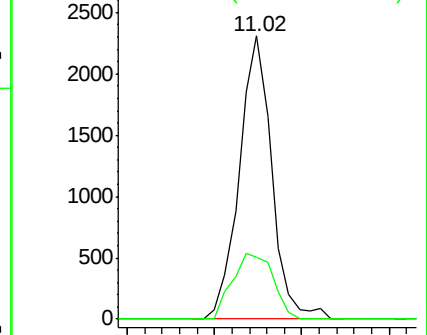
105 100

120 29.0 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 24.53 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002359.D

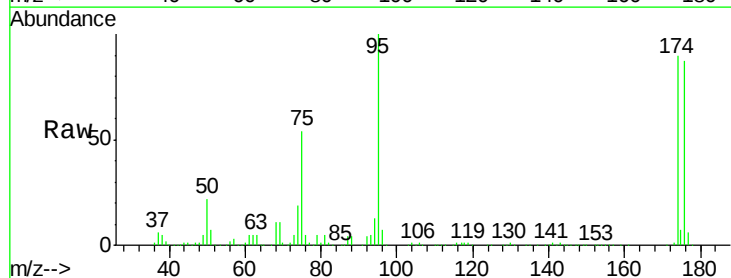
Acq: 06 Jun 2018 18:09

Tgt Ion: 75 Resp: 92161

Ion Ratio Lower Upper

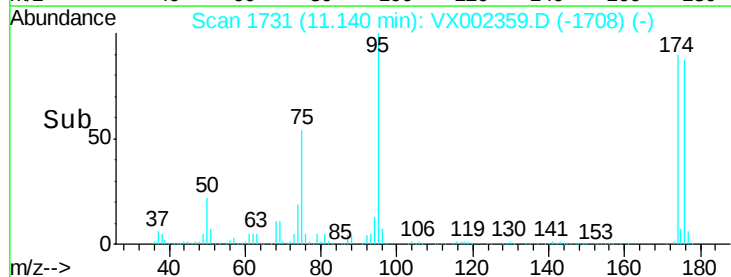
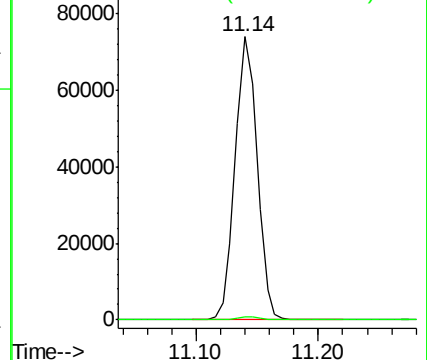
75 100

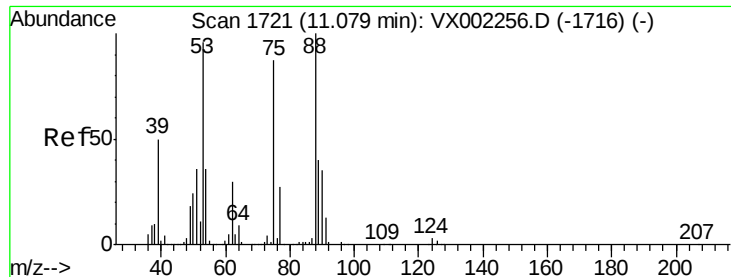
77 1.2 22.8 68.3#



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: 85.99 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002359.D

Acq: 06 Jun 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

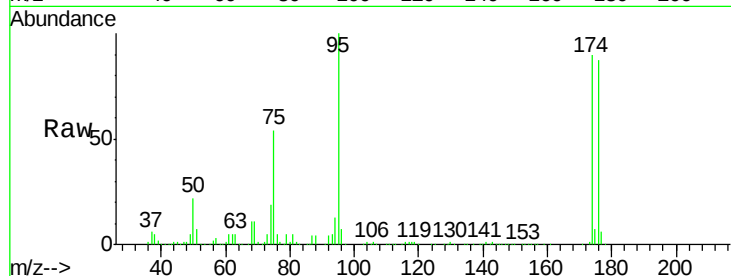
Tot Ion: 75 Resp: 92161

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

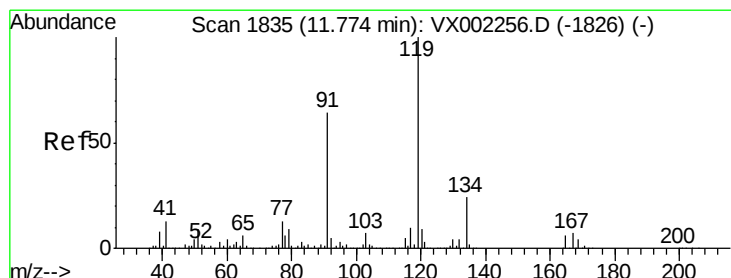
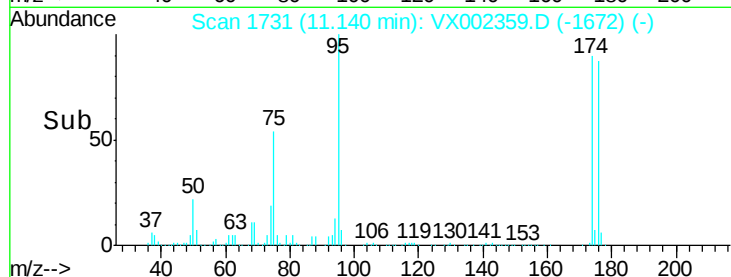
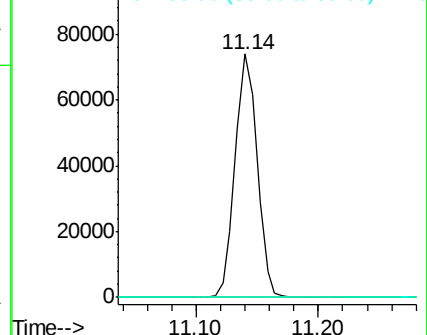
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#83

tert-Butylbenzene

Concen: 0.29 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX002359.D

Acq: 06 Jun 2018 18:09

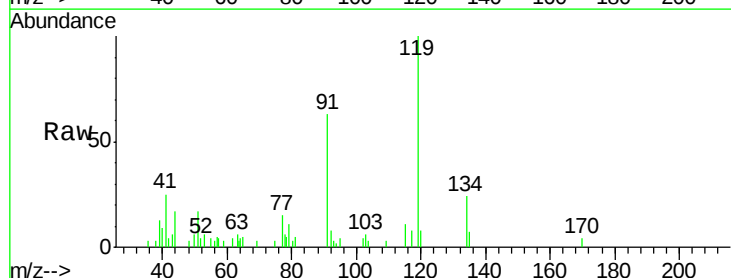
Tgt Ion: 119 Resp: 2857

Ion Ratio Lower Upper

119 100

91 72.6 30.3 90.9

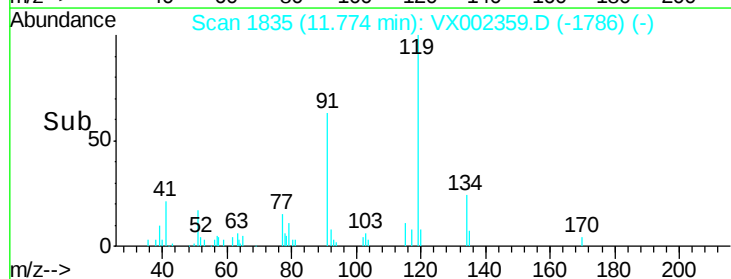
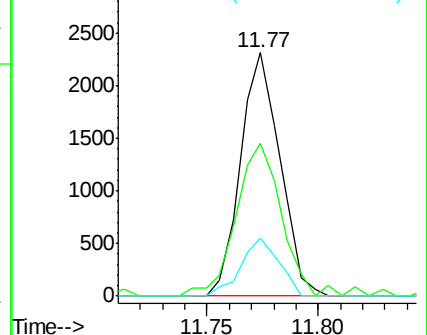
134 22.9 11.7 35.1

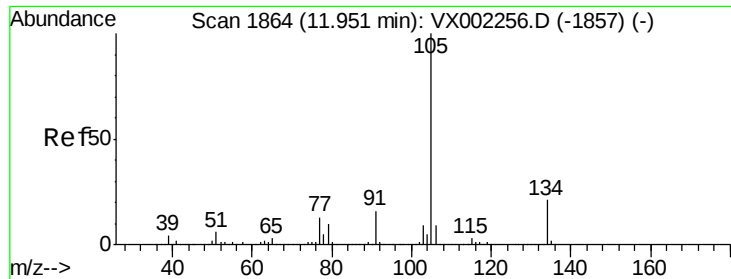


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V

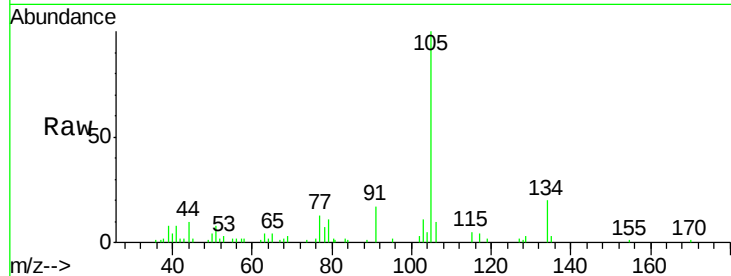




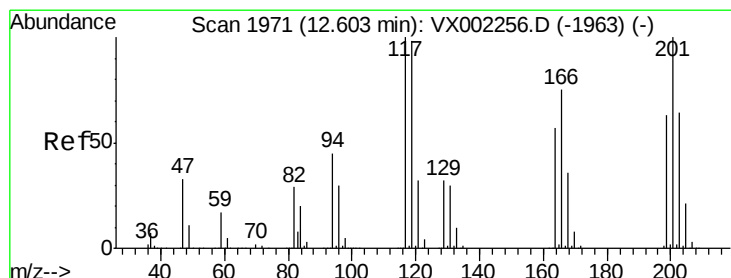
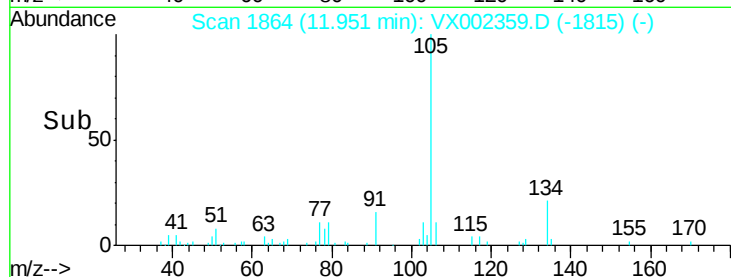
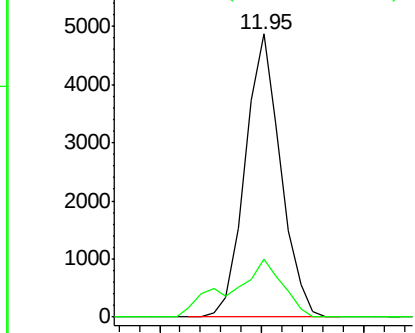
#85
 sec-Butylbenzene
 Concen: 0.50 ug/l
 RT: 11.95 min Scan# 1864
 Delta R.T. -0.00 min
 Lab File: VX002359.D
 Acq: 06 Jun 2018 18:09

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 5875
 Ion Ratio Lower Upper
 105 100
 134 30.4 10.4 31.1

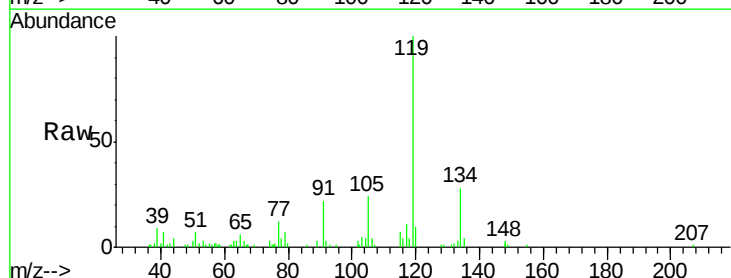


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V

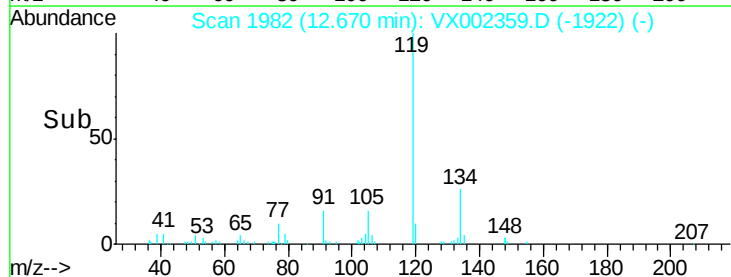
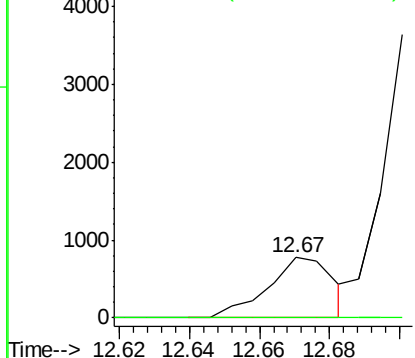


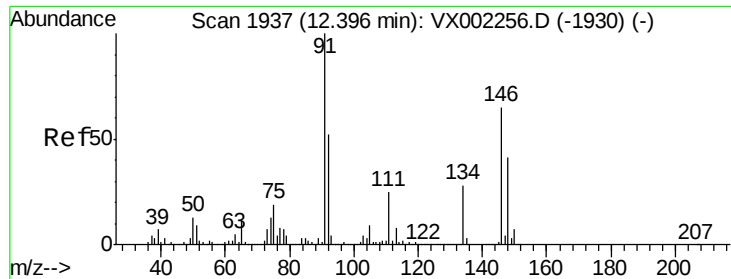
#90
 Hexachloroethane
 Concen: 0.60 ug/l
 RT: 12.67 min Scan# 1982
 Delta R.T. 0.07 min
 Lab File: VX002359.D
 Acq: 06 Jun 2018 18:09

Tgt Ion:117 Resp: 1011
 Ion Ratio Lower Upper
 117 100
 201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 0.21 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX002359.D

Acq: 06 Jun 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

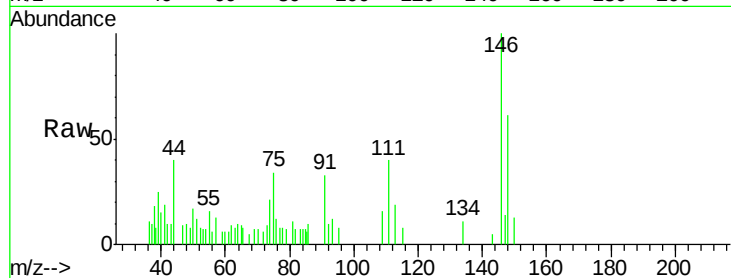
Tot Ion:146 Resp: 1271

Ion Ratio Lower Upper

146 100

111 37.6 19.4 58.1

148 65.5 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

