

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041618\
 Data File : VX000931.D
 Acq On : 16 Apr 2018 20:31
 Operator : JC/MD
 Sample : J2308-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 17 02:37:25 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	266421	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	366962	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	339077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	223596	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	162724	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
35) Dibromofluoromethane	5.51	113	128501	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	
50) Toluene-d8	8.72	98	511058	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
62) 4-Bromofluorobenzene	11.14	95	198766	45.64	ug/l	0.00
Spiked Amount			Recovery	=	91.28%	

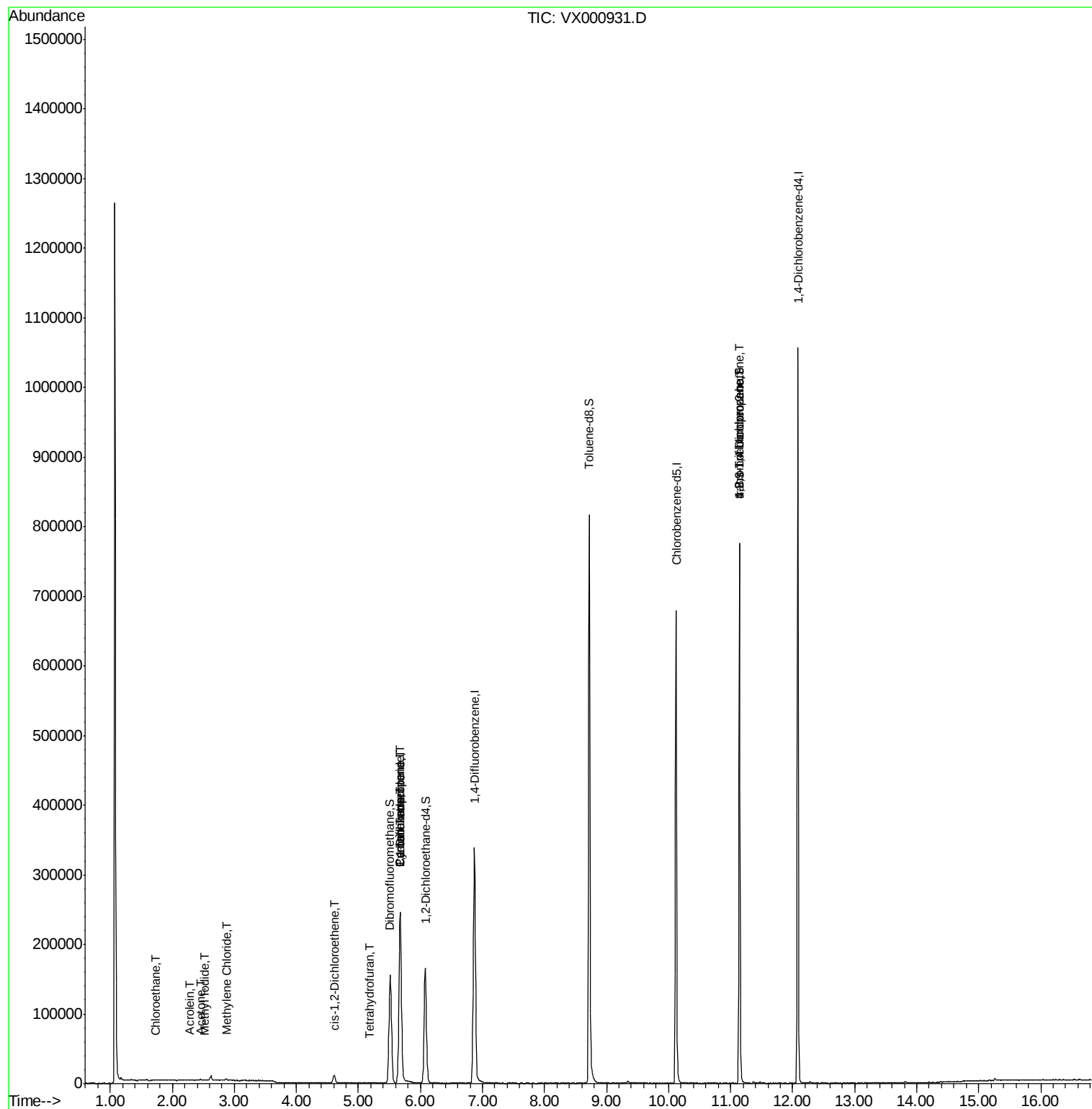
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	109	Below Cal	#	2
6) Chloroethane	1.74	64	805	0.458	ug/l #	43
10) Methyl Iodide	2.52	142	44	8.249	ug/l #	42
13) Acrolein	2.28	56	211	0.729	ug/l #	38
16) Acetone	2.45	43	1345	1.161	ug/l #	88
20) Methylene Chloride	2.87	84	650	0.241	ug/l #	85
27) cis-1,2-Dichloroethene	4.61	96	7229	2.362	ug/l	89
29) Tetrahydrofuran	5.18	42	936	0.771	ug/l #	66
31) Cyclohexane	5.67	56	4484	1.013	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16089	3.981	ug/l #	49
38) Carbon Tetrachloride	5.67	117	22776	5.035	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	97577	25.304	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	97577	69.607	ug/l #	11

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

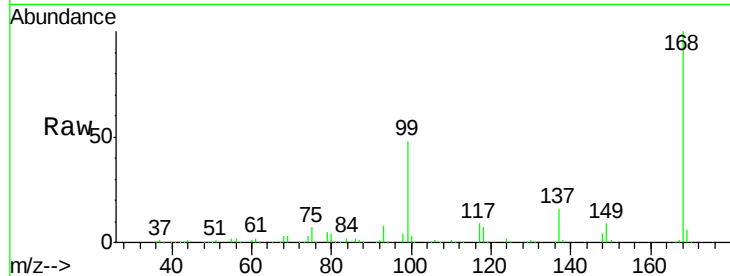
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 266421

Ion Ratio Lower Upper

168 100

99 47.9 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

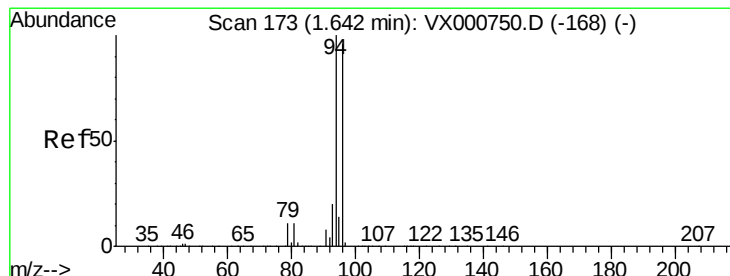
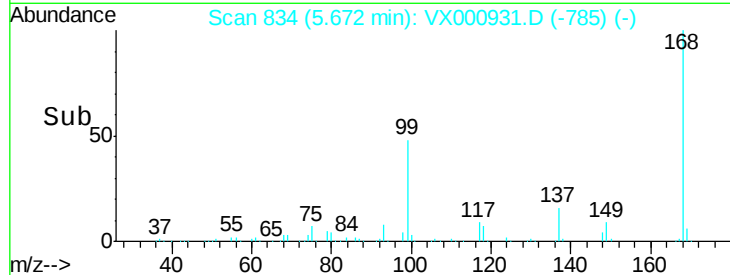
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.00 min

Lab File: VX000931.D

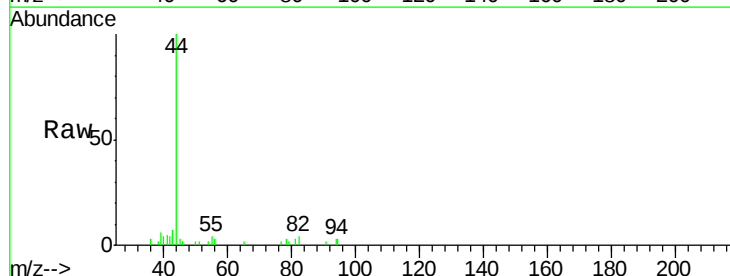
Acq: 16 Apr 2018 20:31

Tgt Ion: 94 Resp: 109

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

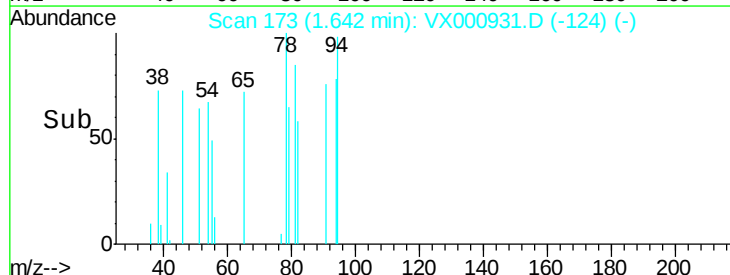
150

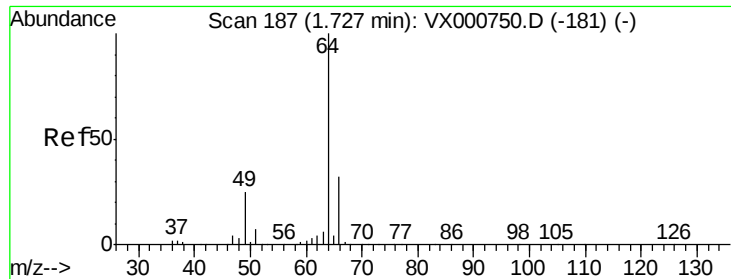
100

50

0

Time--> 1.63 1.64 1.65





#6

Chloroethane

Concen: 0.458 ug/l

RT: 1.74 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

Instrument :

MSVOA_X

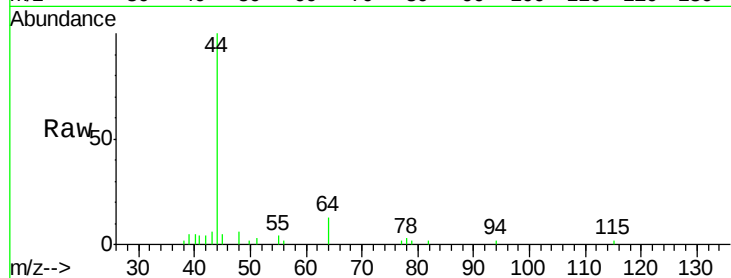
ClientSampleId :

Tot Ion: 64 Resp: 805

Ion Ratio Lower Upper

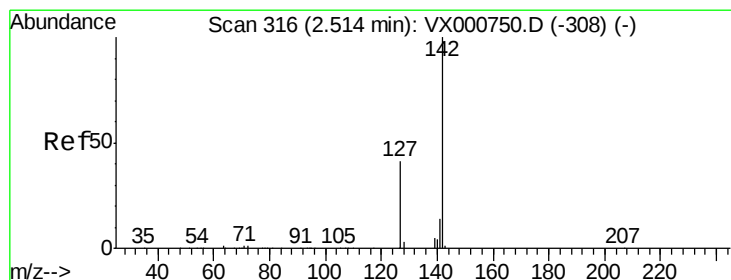
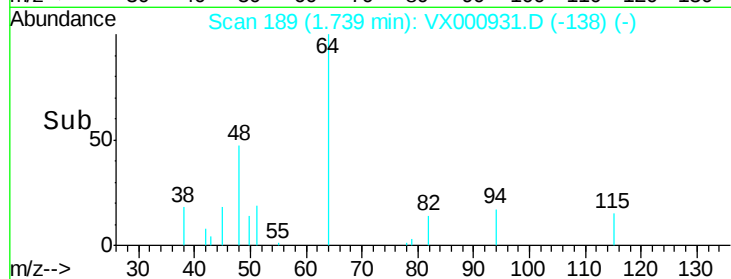
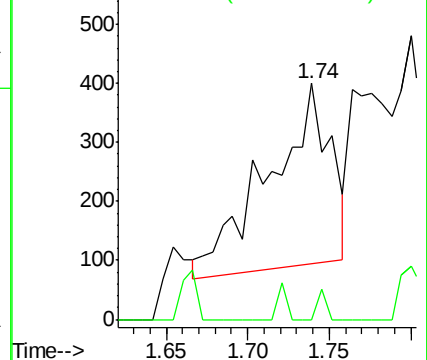
64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 8.249 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

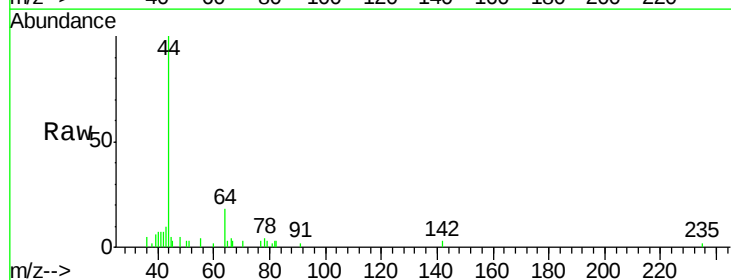
Tgt Ion: 142 Resp: 44

Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

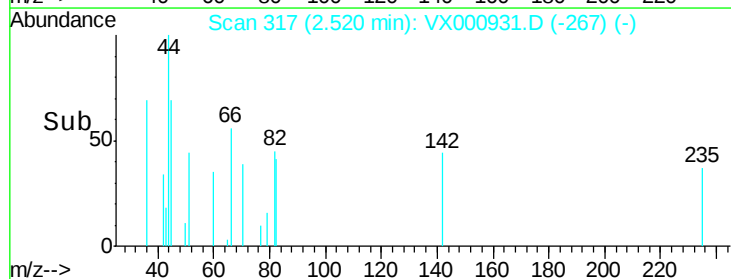
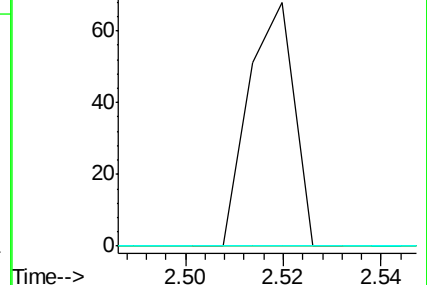
141 0.0 11.5 17.3#

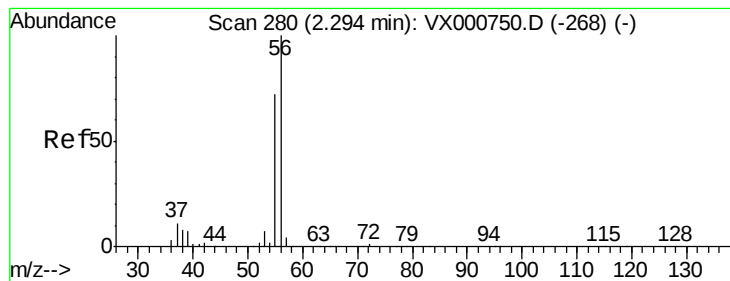


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 0.729 ug/l

RT: 2.28 min Scan# 277

Delta R.T. -0.02 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

Instrument :

MSVOA_X

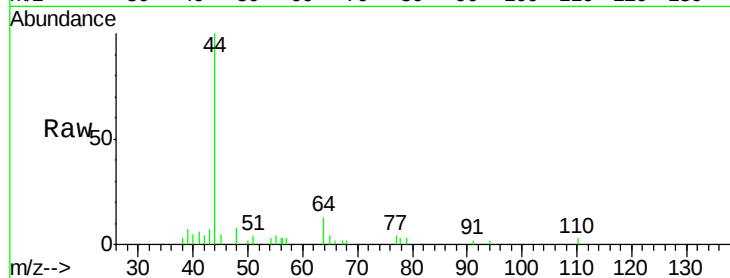
ClientSampled :

Tot Ion: 56 Resp: 211

Ion Ratio Lower Upper

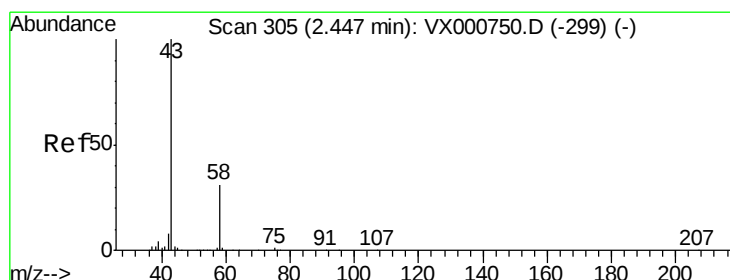
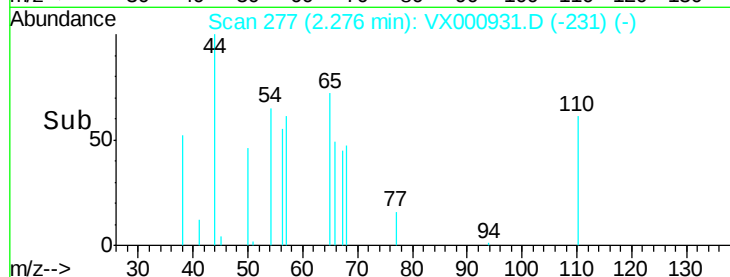
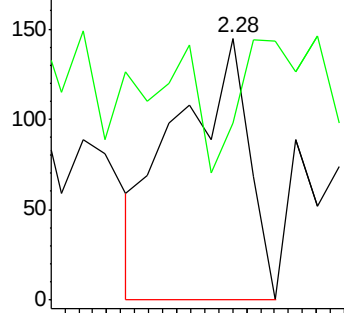
56 100

55 20.9 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.161 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000931.D

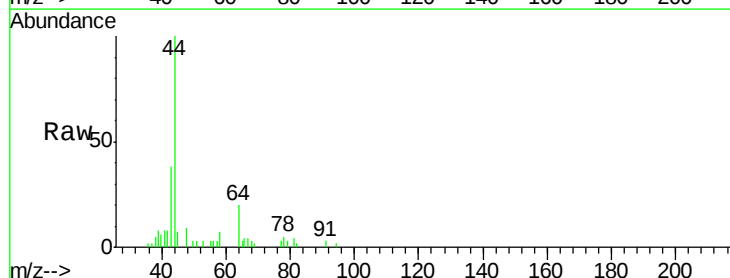
Acq: 16 Apr 2018 20:31

Tgt Ion: 43 Resp: 1345

Ion Ratio Lower Upper

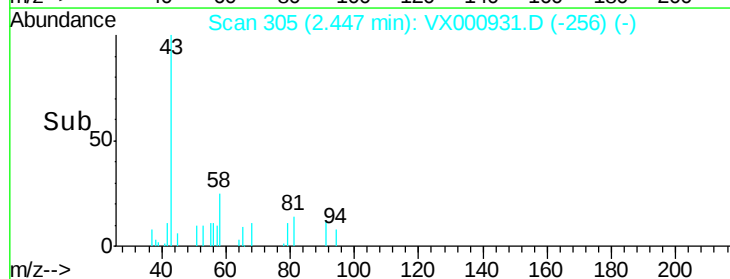
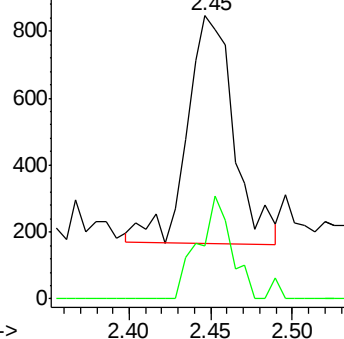
43 100

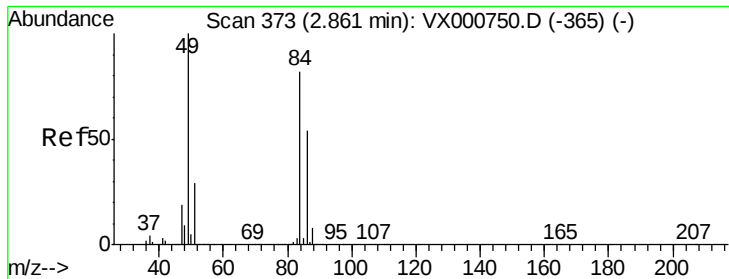
58 24.3 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: 0.241 ug/l

RT: 2.87 min Scan# 375

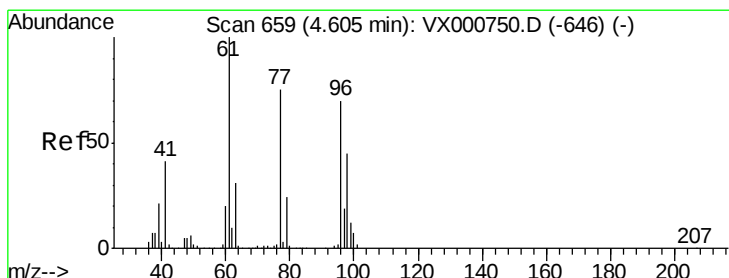
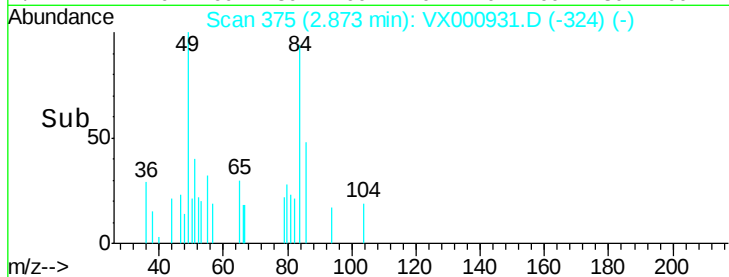
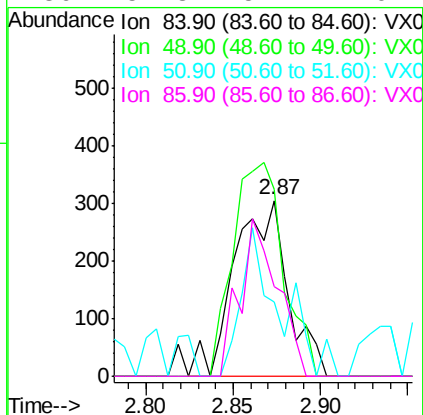
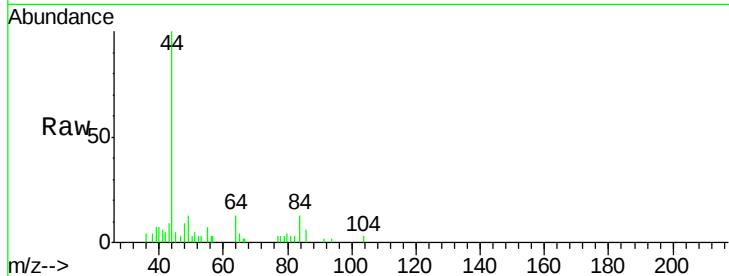
Delta R.T. 0.01 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	84	Resp:	650
Ion	Ratio	Lower	Upper
84	100		
49	106.2	98.1	147.1
51	42.5	28.9	43.3
86	51.3	52.7	79.1#



#27

cis-1,2-Dichloroethene

Concen: 2.362 ug/l

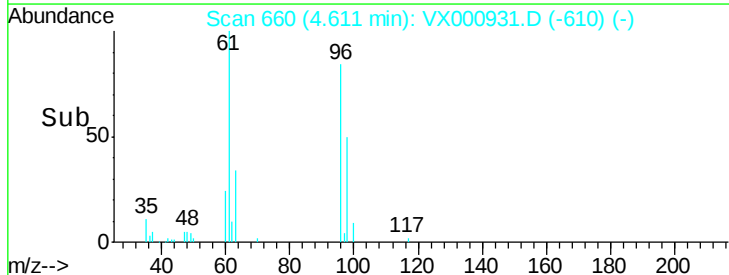
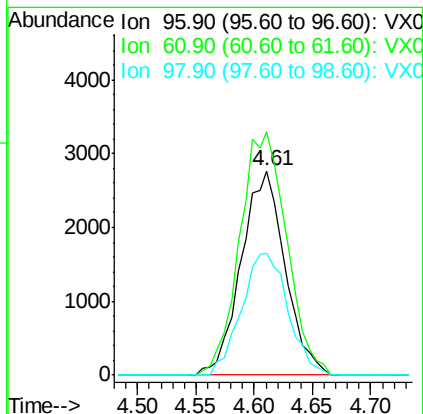
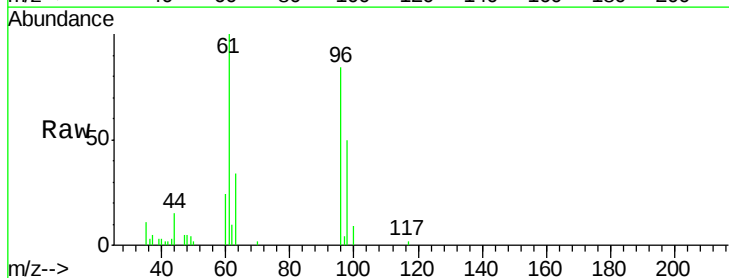
RT: 4.61 min Scan# 660

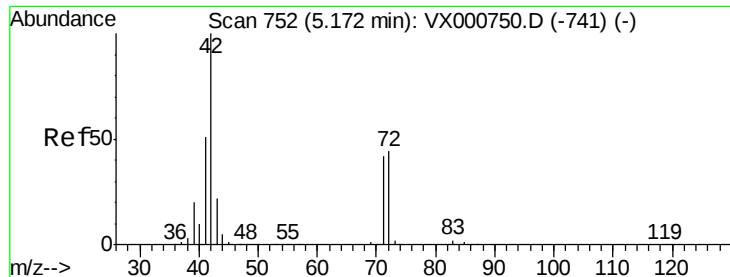
Delta R.T. 0.01 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

Tgt Ion:	96	Resp:	7229
Ion	Ratio	Lower	Upper
96	100		
61	127.6	0.0	292.4
98	63.3	0.0	130.2





#29

Tetrahydrofuran

Concen: 0.771 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

Instrument :

MSVOA_X

ClientSampleId :

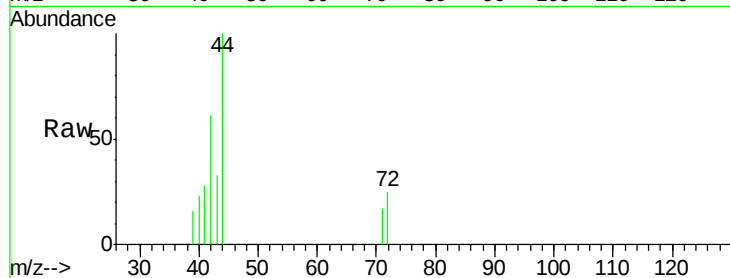
Tot Ion: 42 Resp: 936

Ion Ratio Lower Upper

42 100

72 13.6 35.1 52.7#

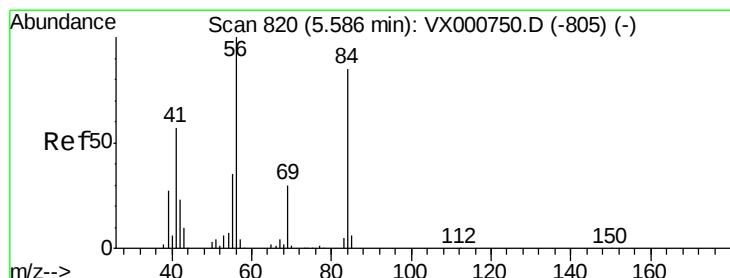
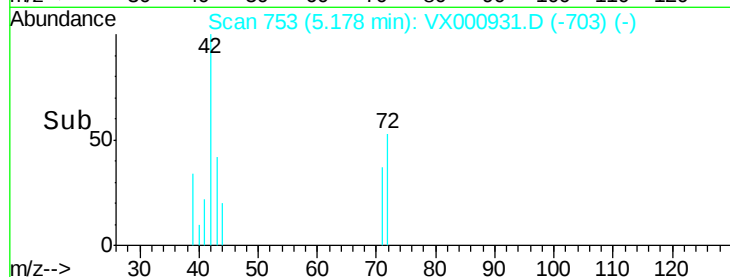
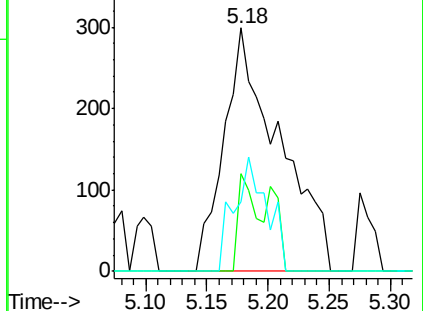
71 27.9 32.8 49.2#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.013 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.08 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

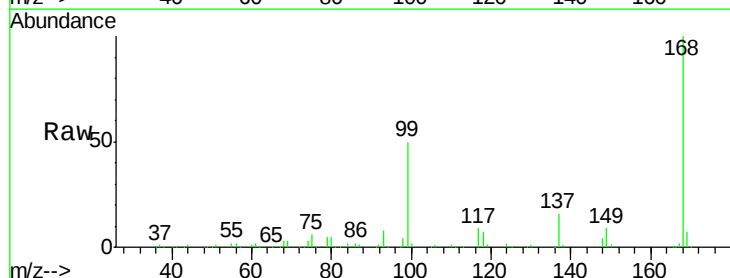
Tgt Ion: 56 Resp: 4484

Ion Ratio Lower Upper

56 100

69 159.3 24.2 36.4#

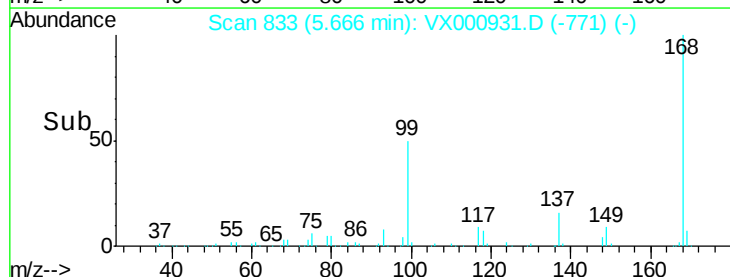
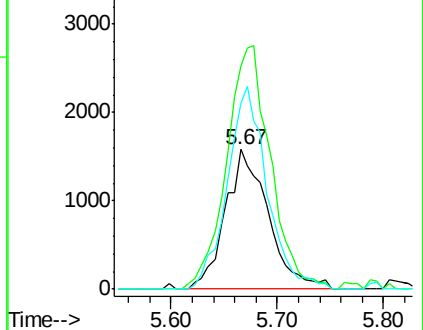
84 133.5 67.6 101.4#

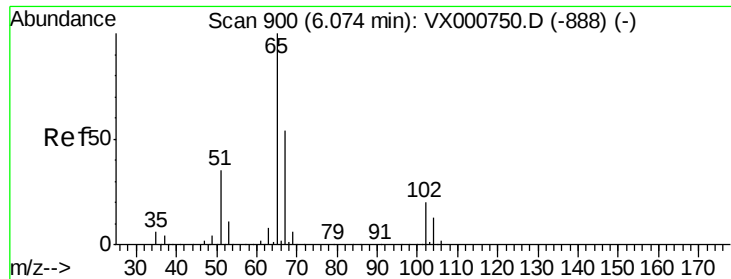


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

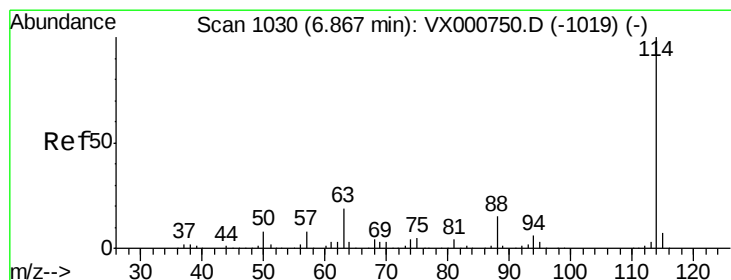
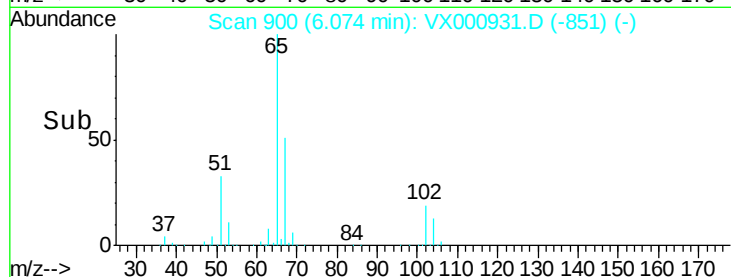
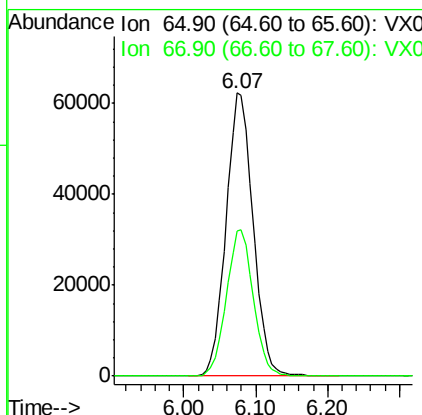
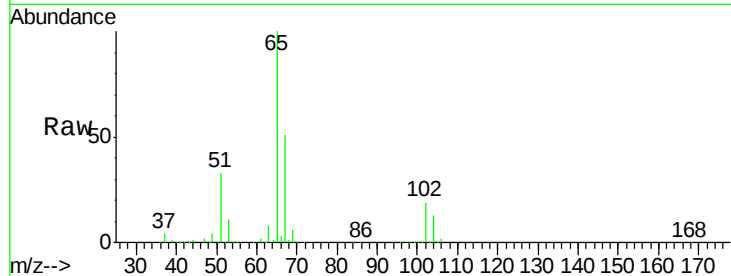




#33
 1,2-Dichloroethane-d4
 Concen: 48.440 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX000931.D
 Acq: 16 Apr 2018 20:31

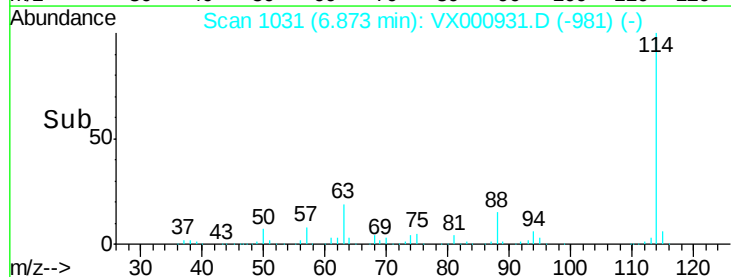
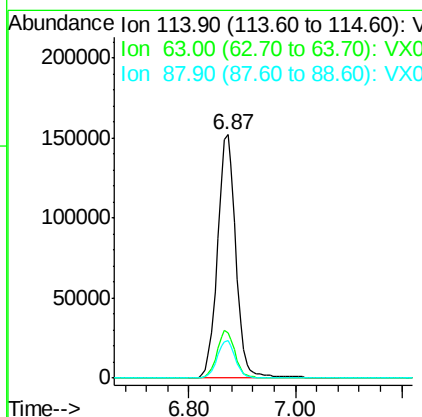
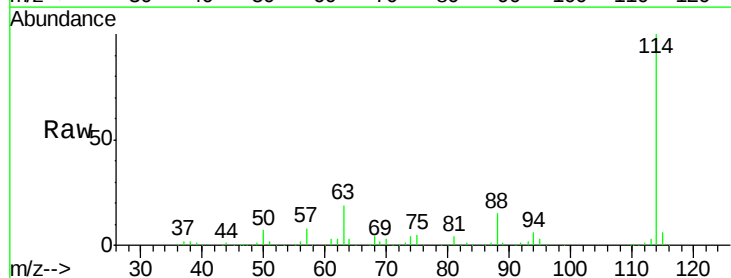
Instrument :
 MSVOA_X
 ClientSampleId :

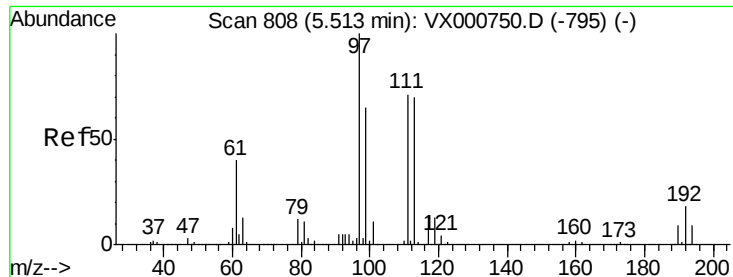
Tot Ion: 65 Resp: 162724
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX000931.D
 Acq: 16 Apr 2018 20:31

Tgt Ion: 114 Resp: 366962
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.4
 88 15.2 0.0 31.0





#35

Dibromofluoromethane

Concen: 45.451 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

Instrument :

MSVOA_X

ClientSampleId :

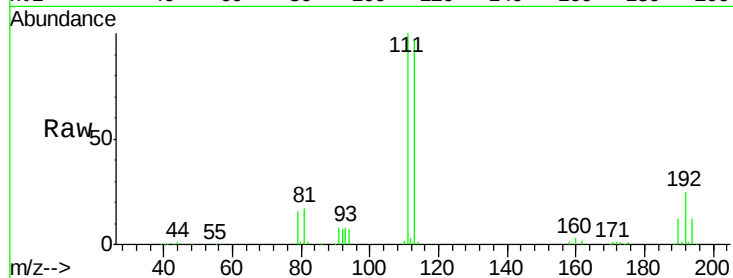
Tot Ion:113 Resp: 128501

Ion Ratio Lower Upper

113 100

111 101.4 81.5 122.3

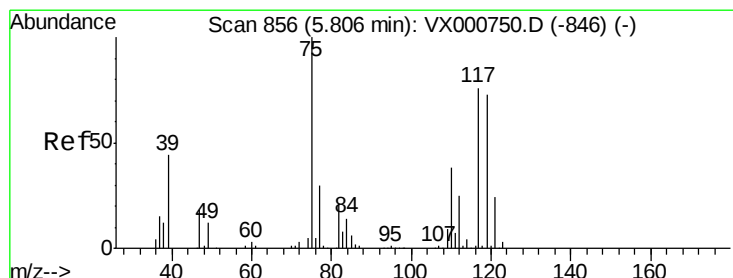
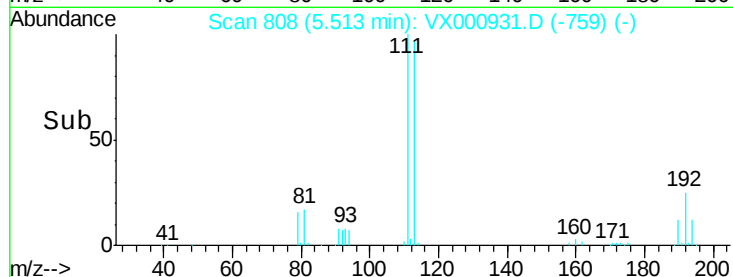
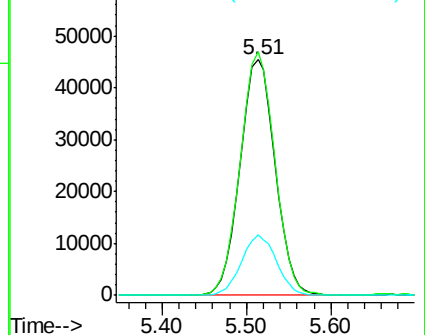
192 25.6 20.4 30.6



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: 3.981 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

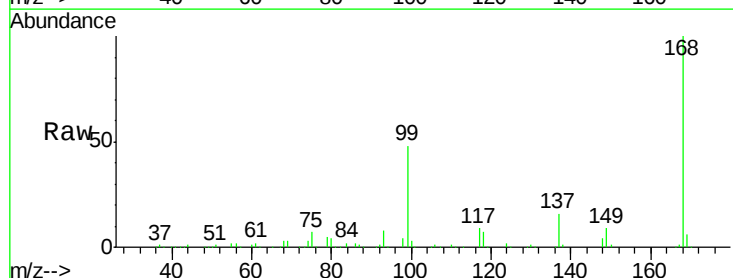
Tgt Ion: 75 Resp: 16089

Ion Ratio Lower Upper

75 100

110 10.2 19.2 57.6#

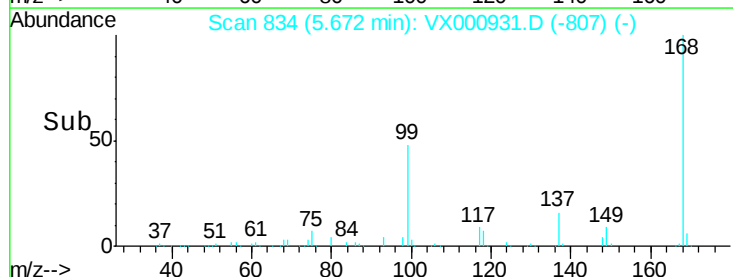
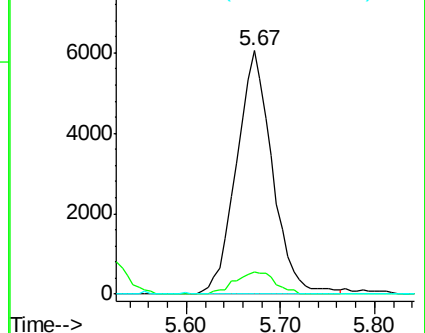
77 0.0 25.4 38.2#

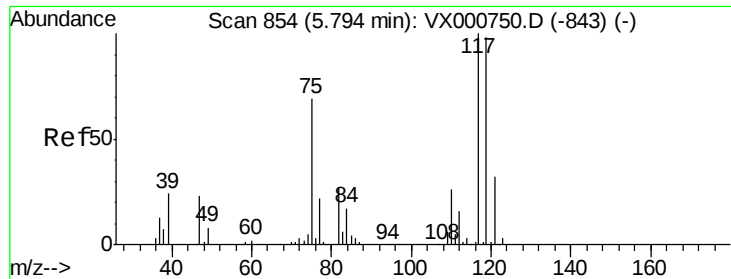


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

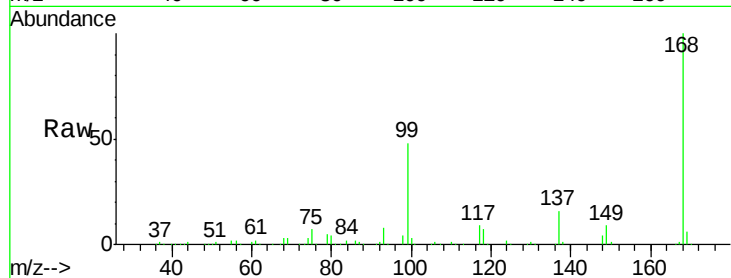




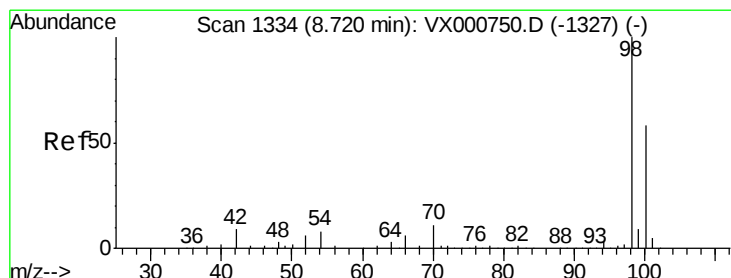
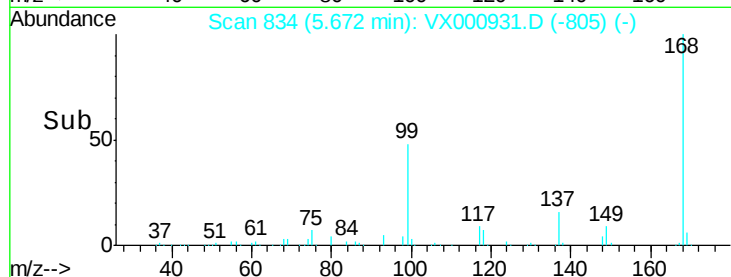
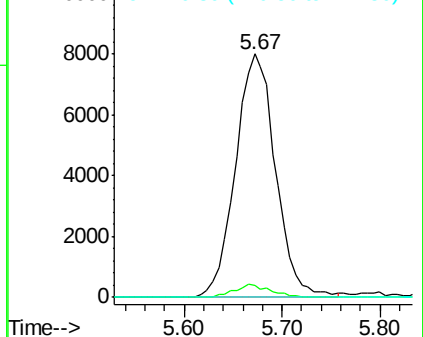
#38
Carbon Tetrachloride
Concen: 5.035 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX000931.D
Acq: 16 Apr 2018 20:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 22776
Ion Ratio Lower Upper
117 100
119 5.0 78.4 117.6#
121 0.0 25.4 38.0#

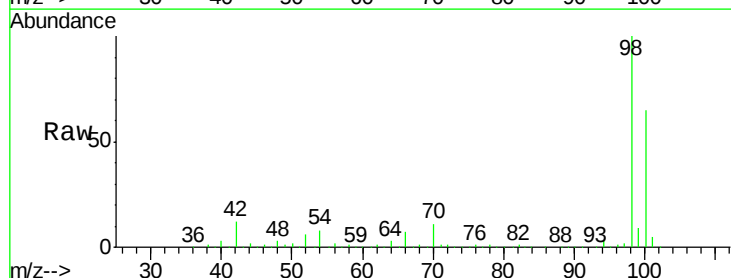


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

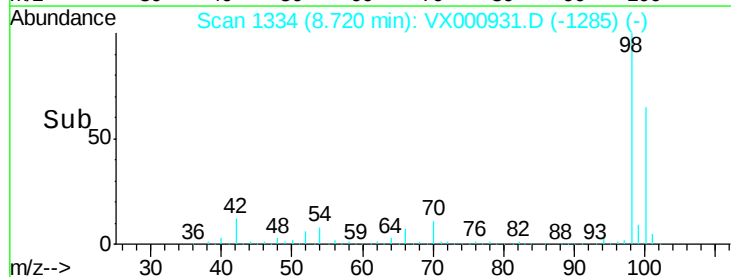
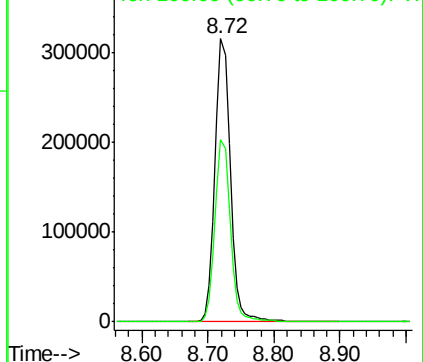


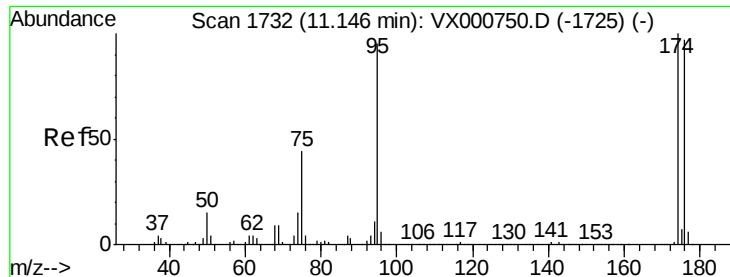
#50
Toluene-d8
Concen: 48.548 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX000931.D
Acq: 16 Apr 2018 20:31

Tgt Ion: 98 Resp: 511058
Ion Ratio Lower Upper
98 100
100 64.4 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

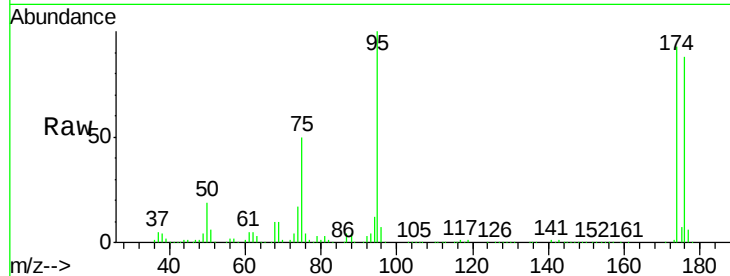




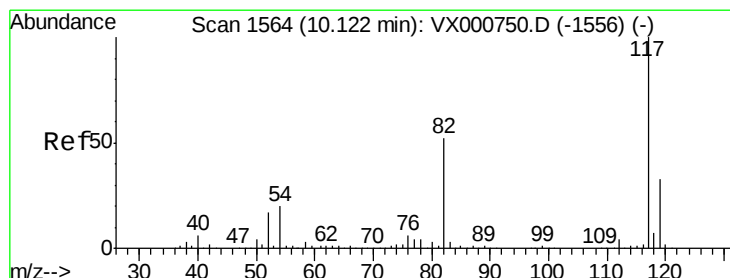
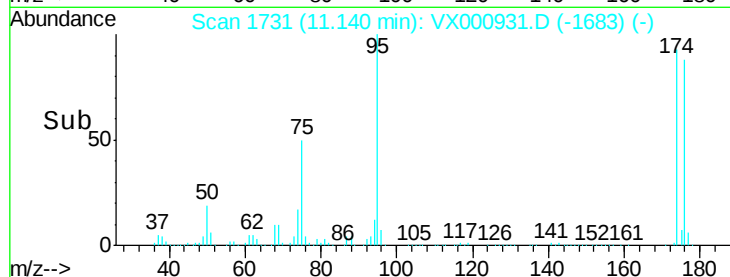
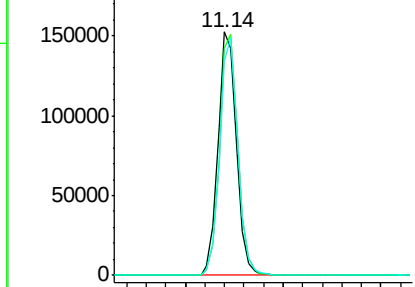
#62
4-Bromofluorobenzene
Concen: 45.638 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.01 min
Lab File: VX000931.D
Acq: 16 Apr 2018 20:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 198766
Ion Ratio Lower Upper
95 100
174 98.5 0.0 198.4
176 95.7 0.0 194.4

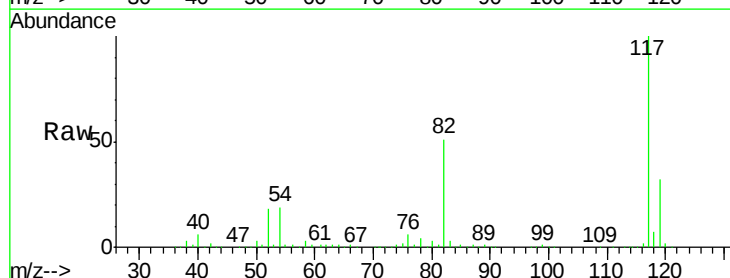


Abundance Ion 94.90 (94.60 to 95.60): VX000931.D (-1683) (-)
Ion 173.80 (173.50 to 174.50): VX000931.D (-1683) (-)
Ion 175.80 (175.50 to 176.50): VX000931.D (-1683) (-)

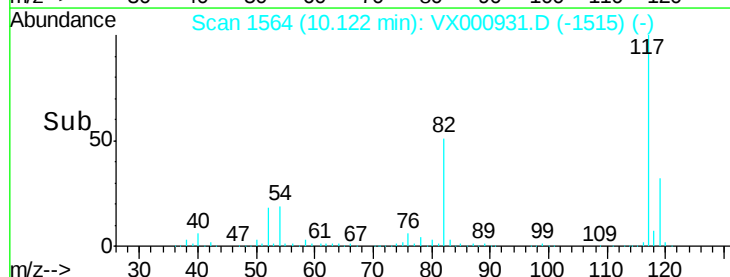
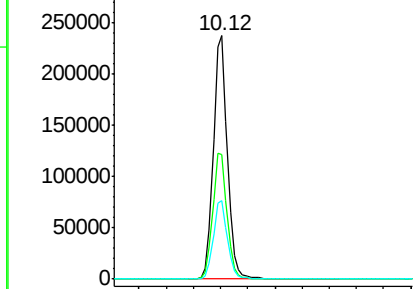


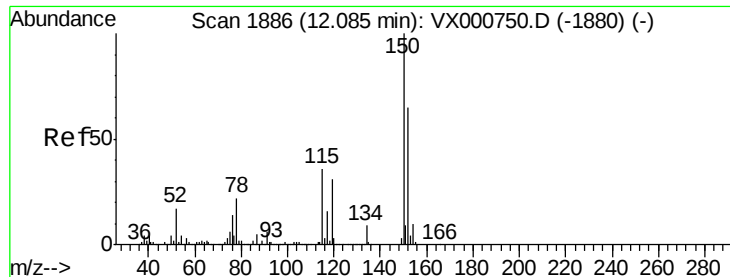
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000931.D
Acq: 16 Apr 2018 20:31

Tgt Ion: 117 Resp: 339077
Ion Ratio Lower Upper
117 100
82 51.0 41.9 62.9
119 32.4 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VX000931.D (-1515) (-)
Ion 82.00 (81.70 to 82.70): VX000931.D (-1515) (-)
Ion 118.90 (118.60 to 119.60): VX000931.D (-1515) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

Instrument :

MSVOA_X

ClientSampleId :

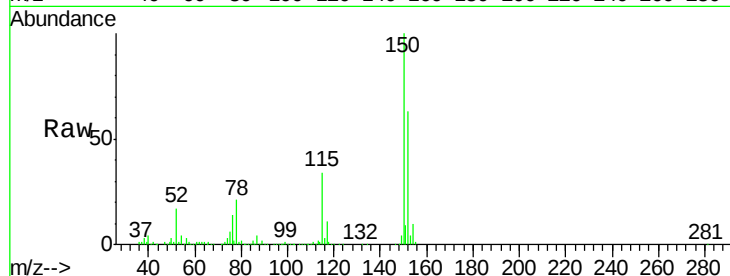
Tot Ion:152 Resp: 223596

Ion Ratio Lower Upper

152 100

115 54.1 37.9 113.7

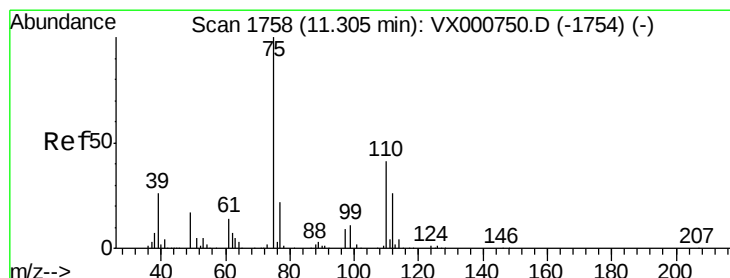
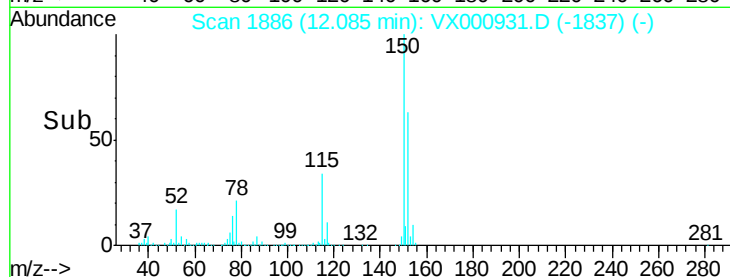
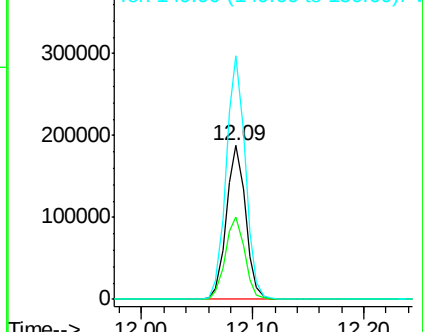
150 157.9 0.0 348.0



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: 25.304 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000931.D

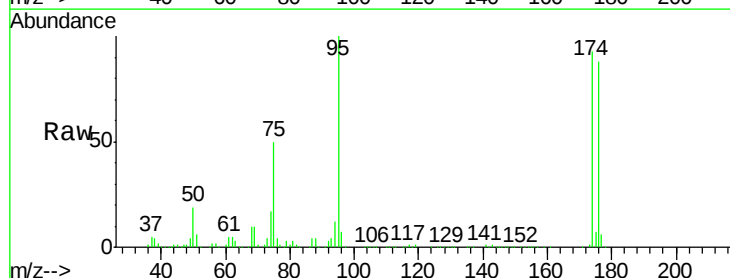
Acq: 16 Apr 2018 20:31

Tgt Ion: 75 Resp: 97577

Ion Ratio Lower Upper

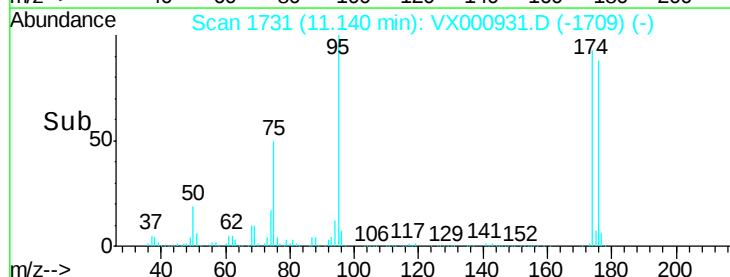
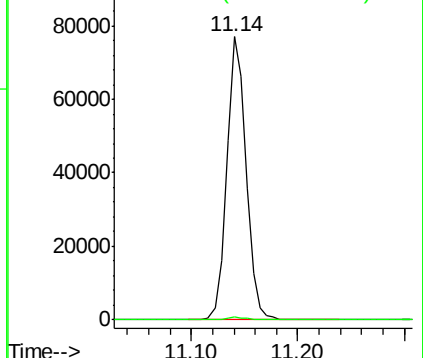
75 100

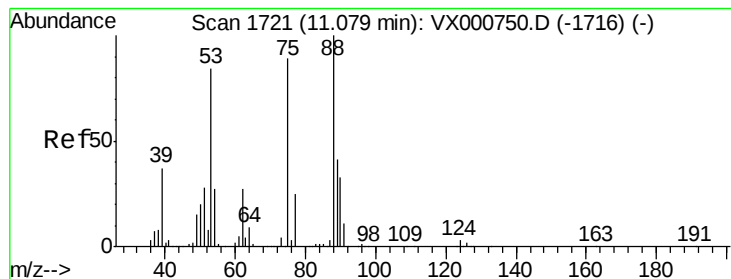
77 1.1 20.5 61.5#



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: 69.607 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

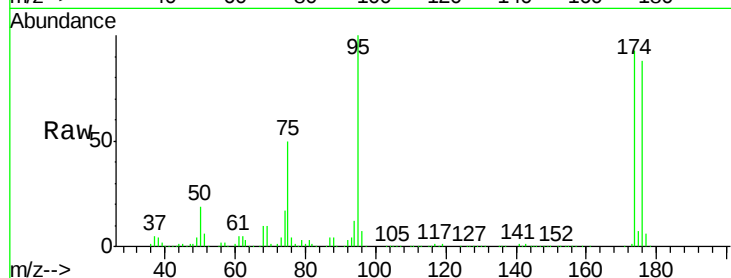
Lab File: VX000931.D

Acq: 16 Apr 2018 20:31

Instrument :

MSVOA_X

ClientSampleId :



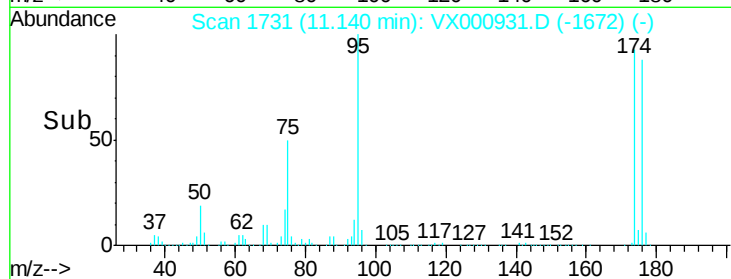
Tot Ion: 75 Resp: 97577

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#



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

