

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041618\
 Data File : VX000925.D
 Acq On : 16 Apr 2018 17:57
 Operator : JC/MD
 Sample : J2370-02 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 17 02:35:34 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	261281	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	355387	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	326528	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	210243	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	156962	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
35) Dibromofluoromethane	5.51	113	123967	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	
50) Toluene-d8	8.72	98	493894	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
62) 4-Bromofluorobenzene	11.15	95	188797	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	

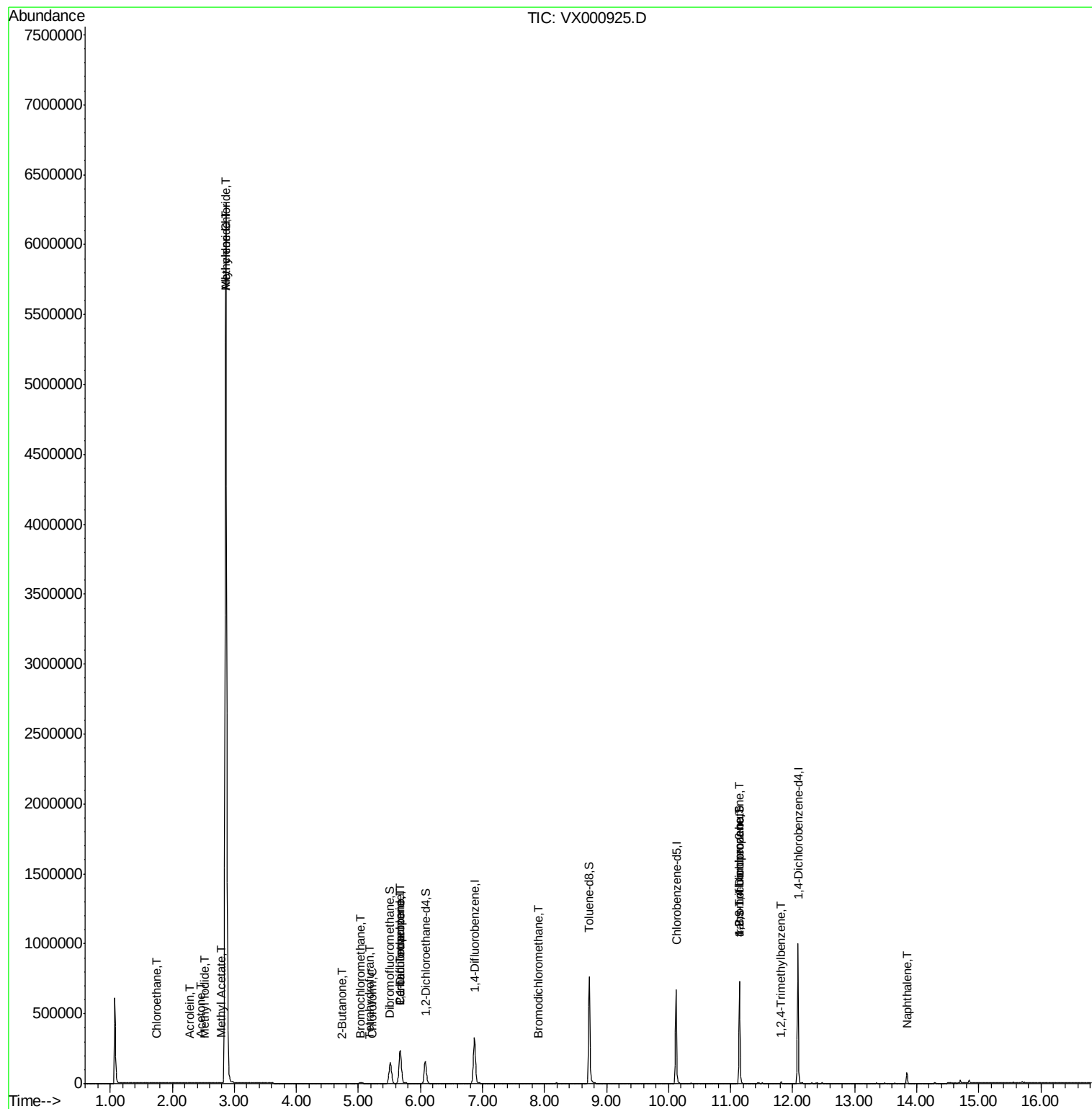
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	566	Below Cal	#	51
6) Chloroethane	1.73	64	1450	0.841	ug/l #	65
10) Methyl Iodide	2.52	142	365	8.385	ug/l #	90
13) Acrolein	2.29	56	254	0.894	ug/l #	1
14) Allyl chloride	2.86	41	116182	26.201	ug/l #	27
16) Acetone	2.45	43	3374	2.970	ug/l	97
18) Methyl Acetate	2.79	43	4014	1.365	ug/l #	84
20) Methylene Chloride	2.86	84	3046000	1152.731	ug/l	98
25) 2-Butanone	4.73	43	793	0.423	ug/l	97
28) Bromochloromethane	5.03	49	5583	3.032	ug/l	96
29) Tetrahydrofuran	5.18	42	452	0.379	ug/l #	77
30) Chloroform	5.23	83	2537	0.524	ug/l	89
36) 1,1-Dichloropropene	5.67	75	15764	4.028	ug/l #	49
38) Carbon Tetrachloride	5.67	117	21786	4.973	ug/l #	16
47) Bromodichloromethane	7.91	83	804	0.206	ug/l #	95
76) 1,2,3-Trichloropropane	11.14	75	92637	25.549	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	92637	70.280	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	5329	0.450	ug/l	99
95) Naphthalene	13.84	128	45406	2.968	ug/l	100

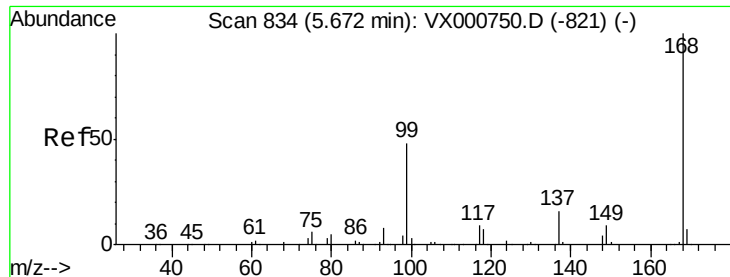
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 10 15:49:28 2018
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: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

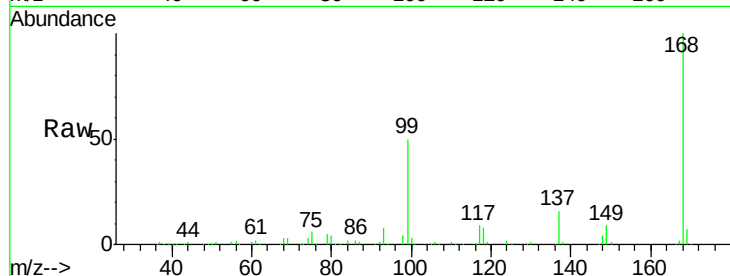
ClientSampled :

Tot Ion:168 Resp: 261281

Ion Ratio Lower Upper

168 100

99 49.7 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

80000

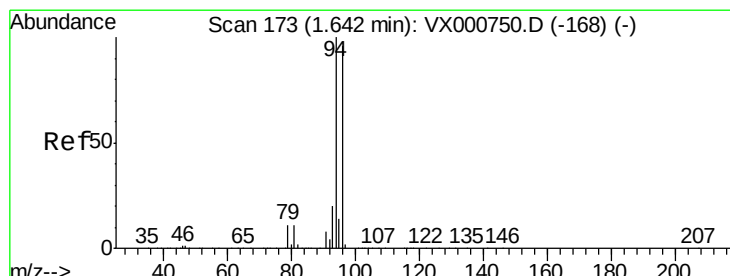
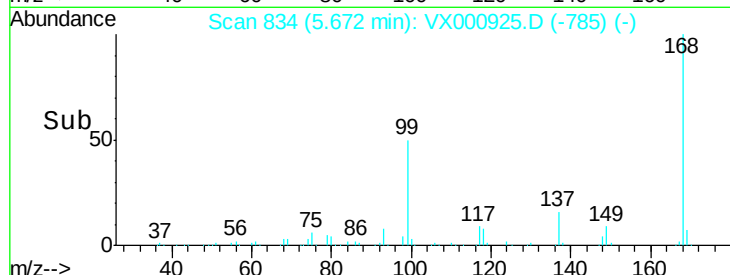
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000925.D

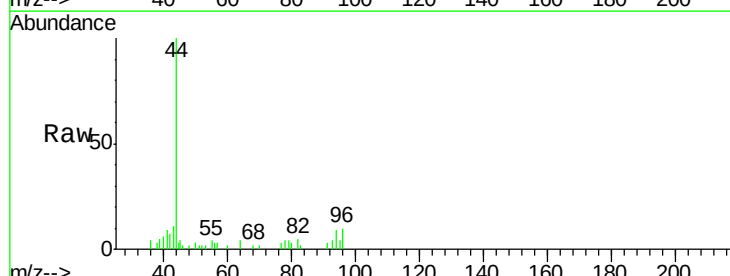
Acq: 16 Apr 2018 17:57

Tgt Ion: 94 Resp: 566

Ion Ratio Lower Upper

94 100

96 144.5 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

300

250

200

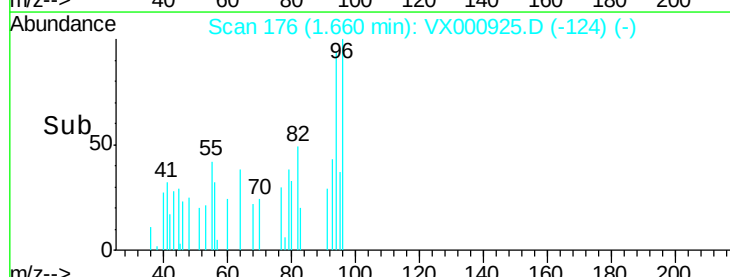
150

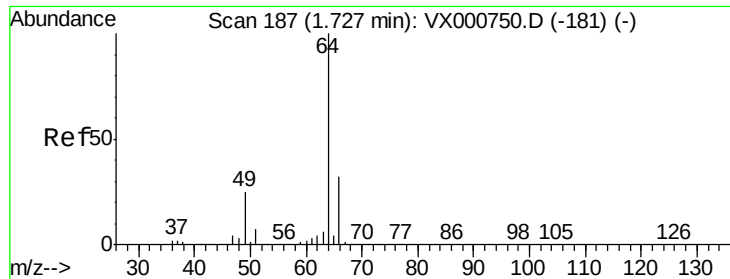
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.841 ug/l

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

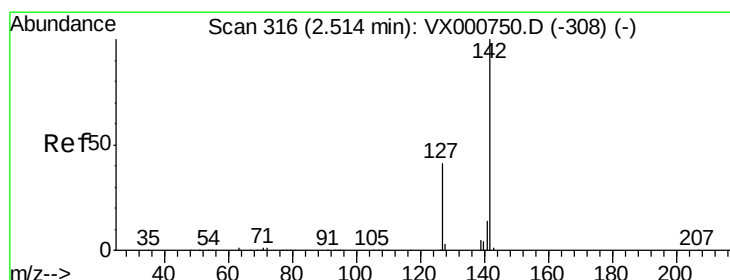
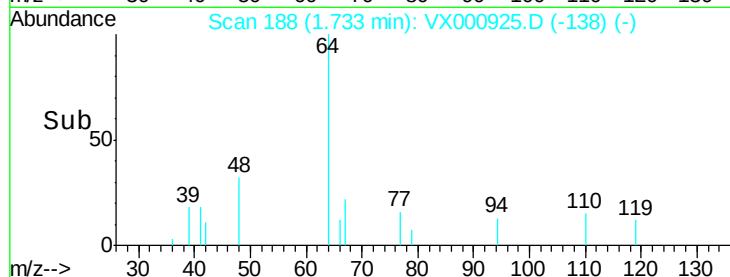
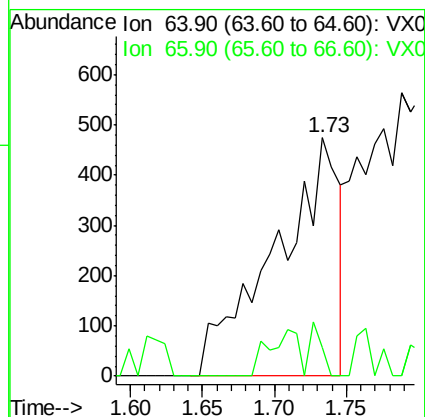
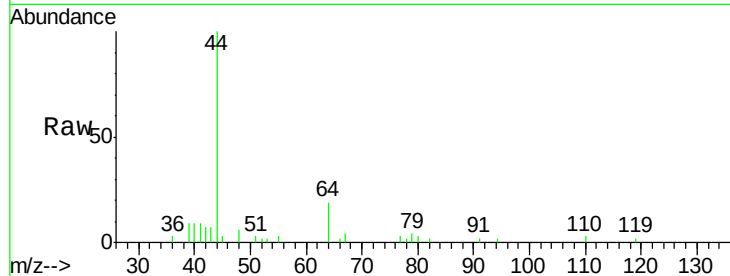
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 64 Resp: 1450

Ion Ratio Lower Upper

64 100

66 12.2 25.3 37.9#



#10

Methyl Iodide

Concen: 8.385 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

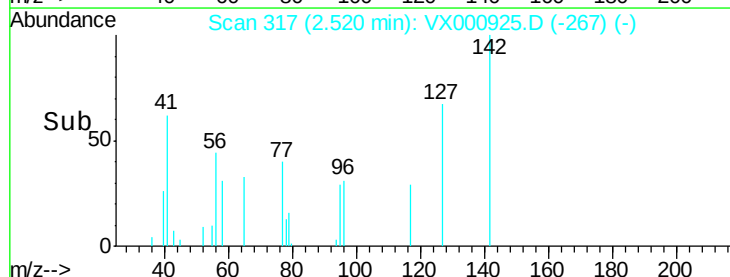
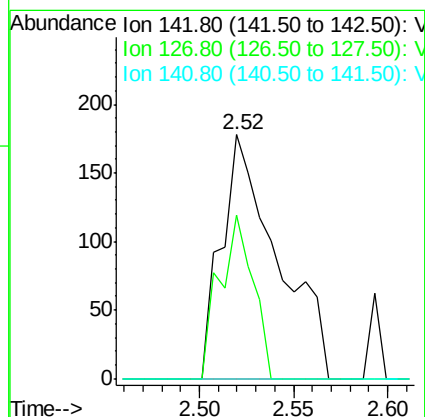
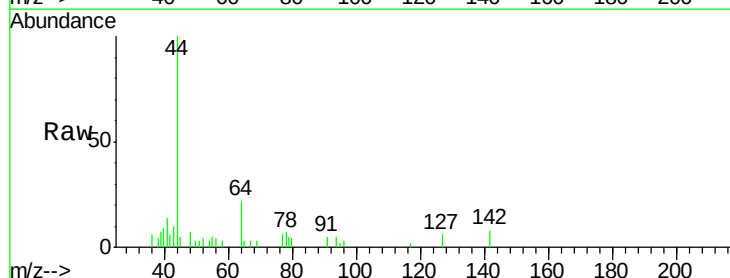
Tgt Ion: 142 Resp: 365

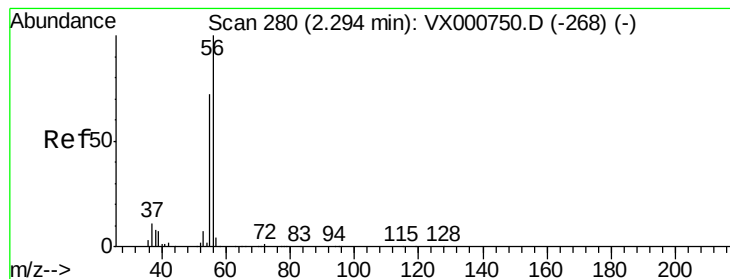
Ion Ratio Lower Upper

142 100

127 40.3 32.6 49.0

141 0.0 11.5 17.3#





#13

Acrolein

Concen: 0.894 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

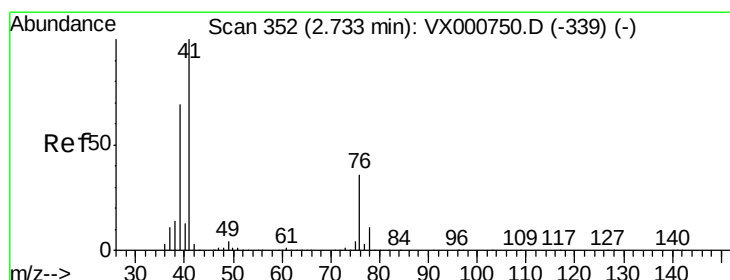
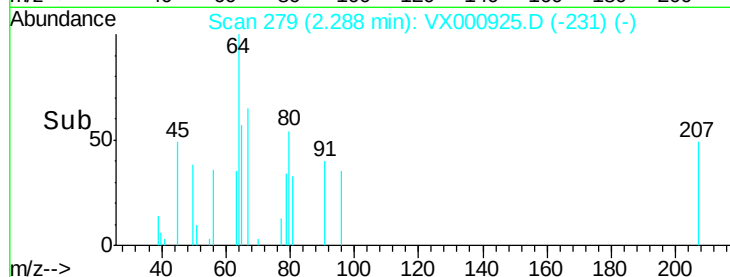
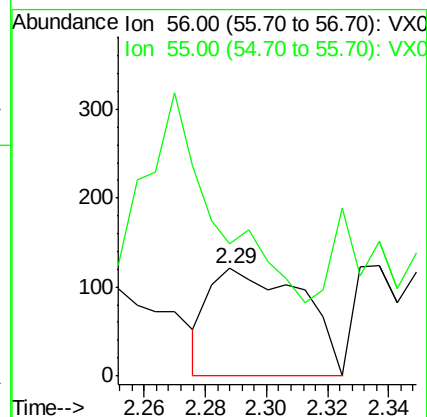
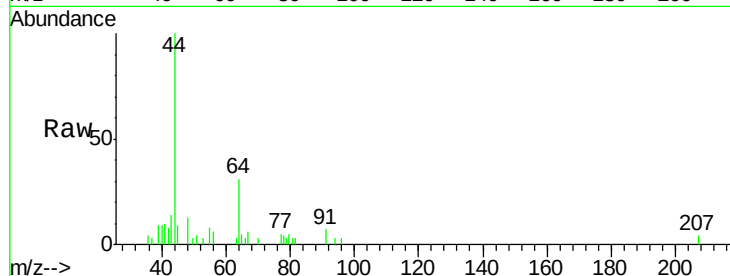
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 254

Ion Ratio Lower Upper

56 100

55 179.5 58.7 88.1#



#14

Allyl chloride

Concen: 26.201 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.13 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

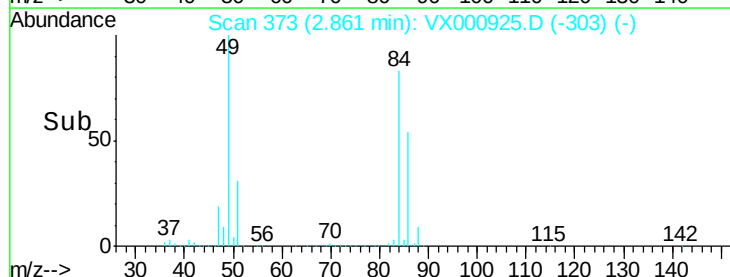
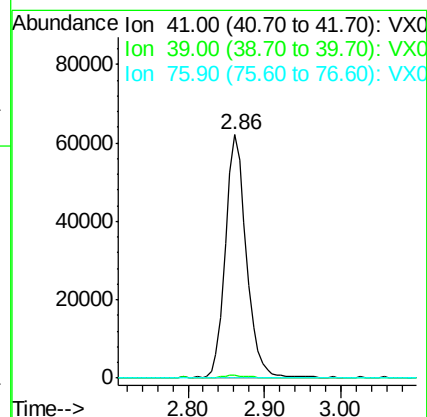
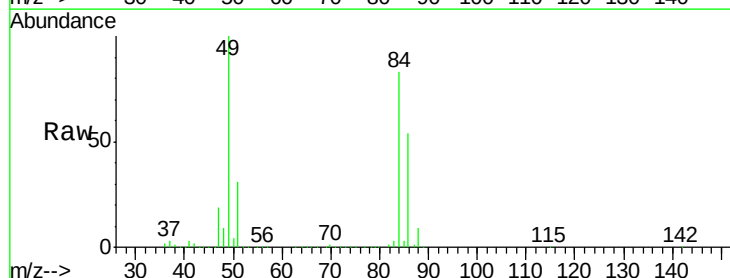
Tgt Ion: 41 Resp: 116182

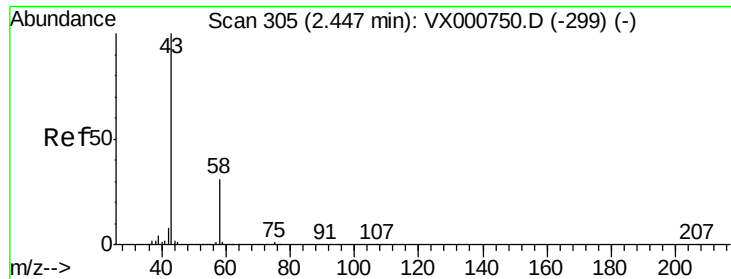
Ion Ratio Lower Upper

41 100

39 1.0 51.5 77.3#

76 0.0 26.5 39.7#





#16

Acetone

Concen: 2.970 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

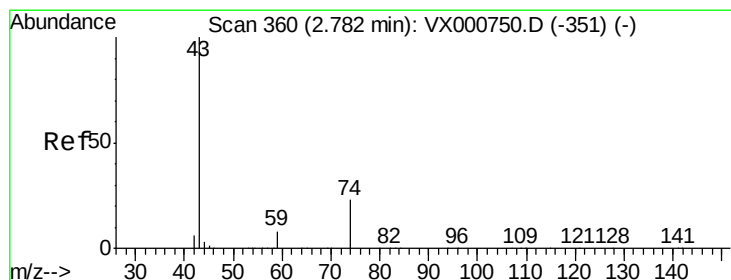
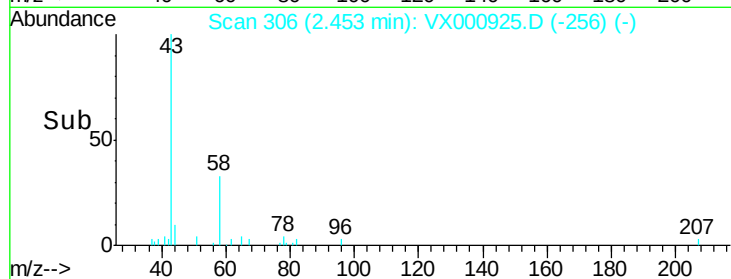
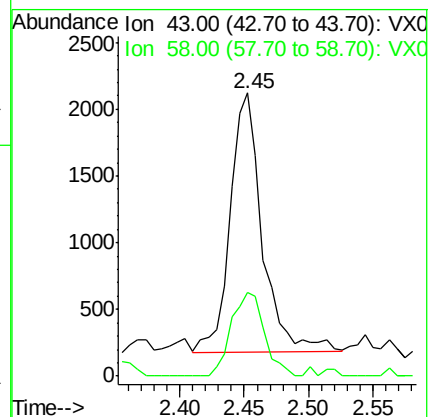
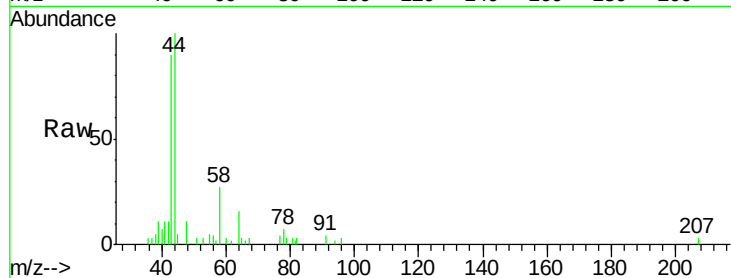
ClientSampleId :

Tot Ion: 43 Resp: 3374

Ion Ratio Lower Upper

43 100

58 32.6 24.6 37.0



#18

Methyl Acetate

Concen: 1.365 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX000925.D

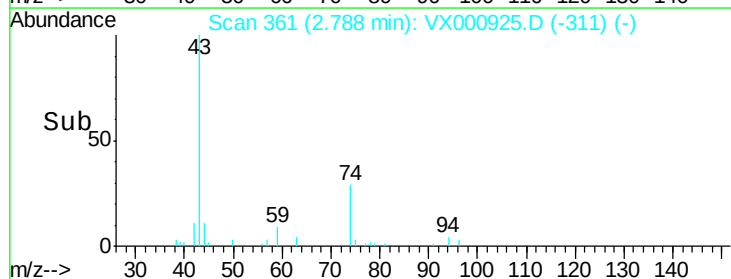
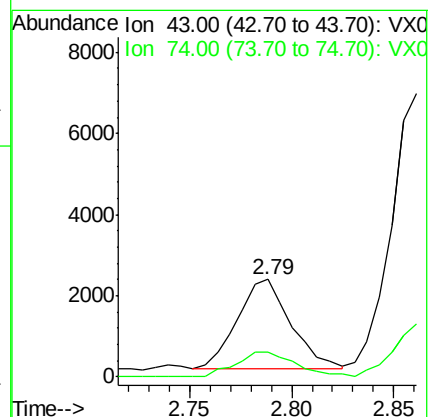
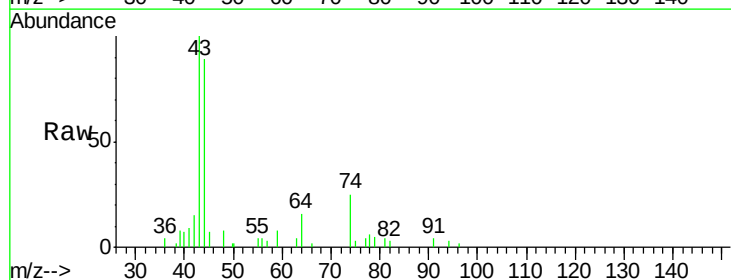
Acq: 16 Apr 2018 17:57

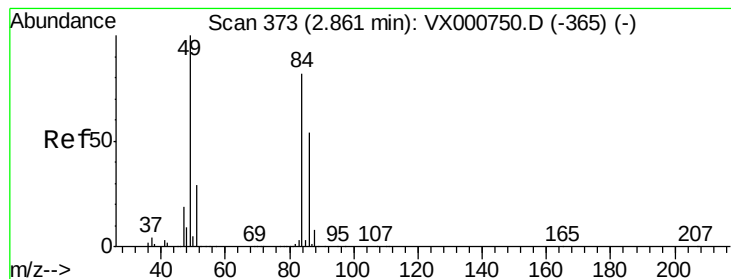
Tgt Ion: 43 Resp: 4014

Ion Ratio Lower Upper

43 100

74 31.7 19.1 28.7#





#20

Methvlene Chloride

Concen: 1152.731 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 3046000

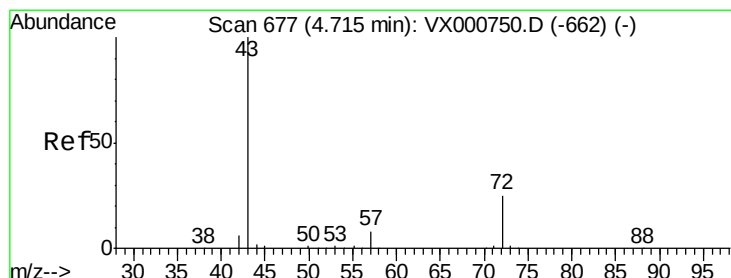
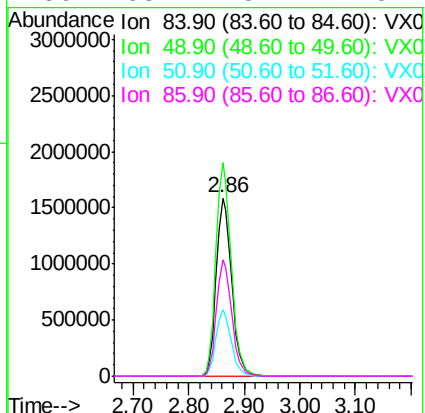
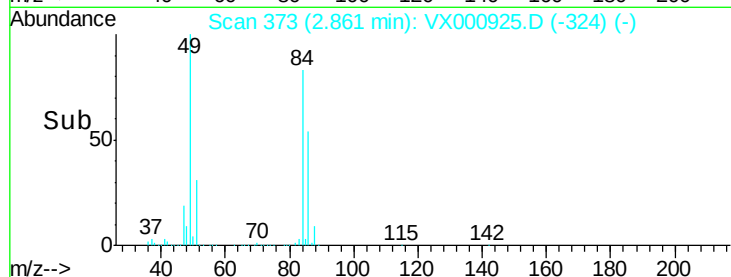
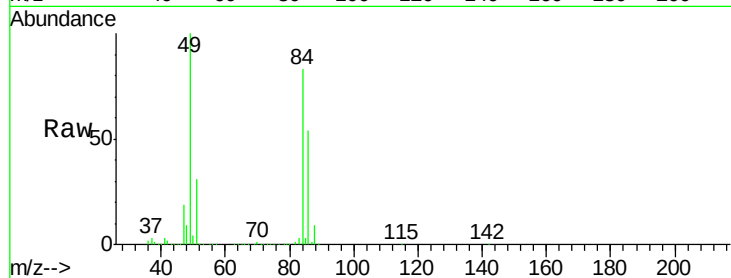
Ion Ratio Lower Upper

84 100

49 119.9 98.1 147.1

51 37.2 28.9 43.3

86 65.2 52.7 79.1



#25

2-Butanone

Concen: 0.423 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX000925.D

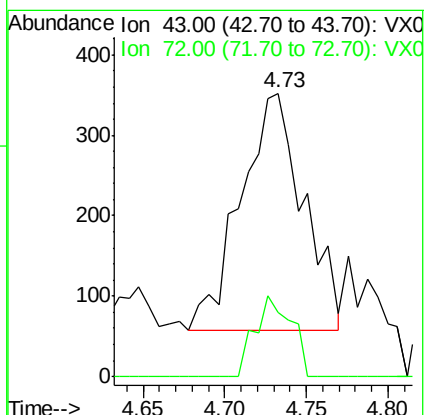
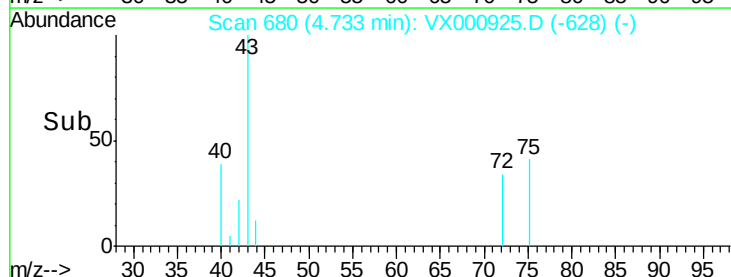
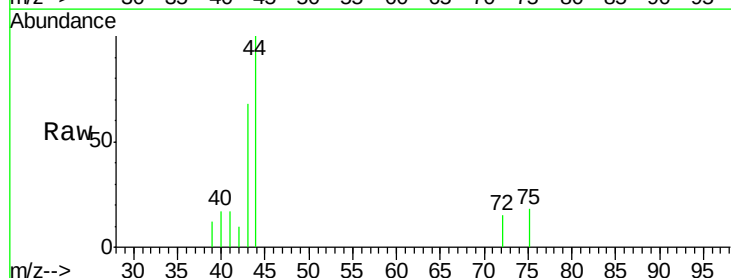
Acq: 16 Apr 2018 17:57

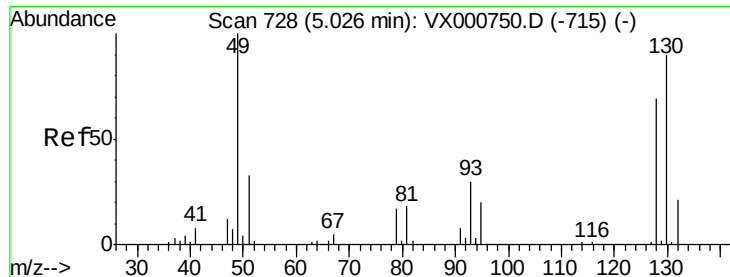
Tgt Ion: 43 Resp: 793

Ion Ratio Lower Upper

43 100

72 26.8 20.3 30.5

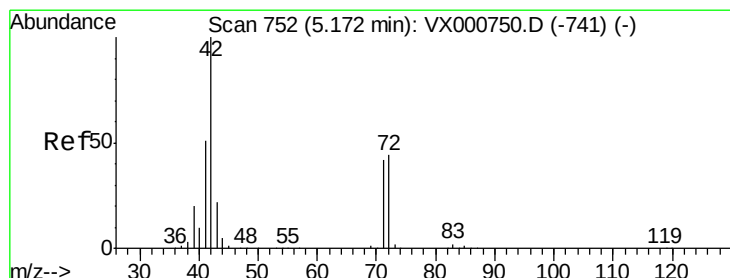
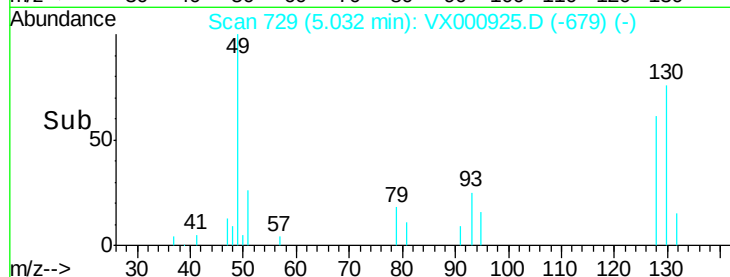
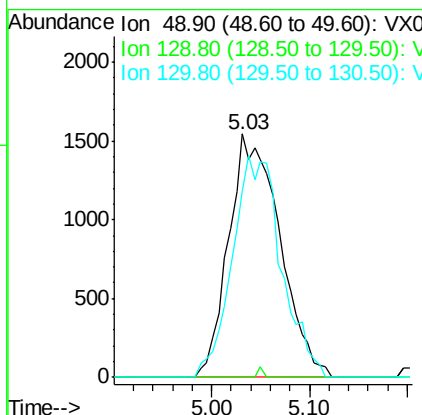
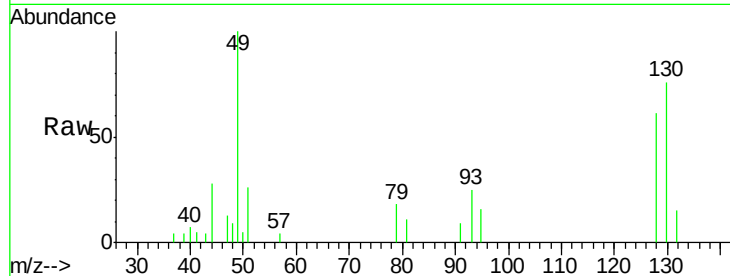




#28
Bromochloromethane
Concen: 3.032 ug/l
RT: 5.03 min Scan# 729
Delta R.T. 0.01 min
Lab File: VX000925.D
Acq: 16 Apr 2018 17:57

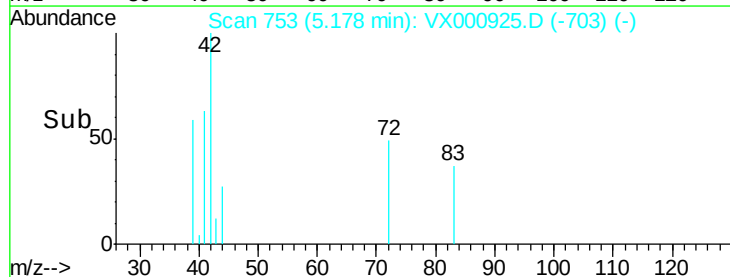
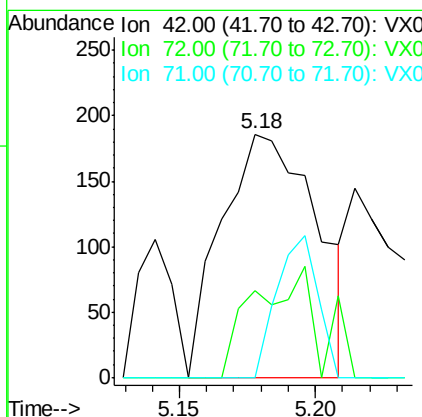
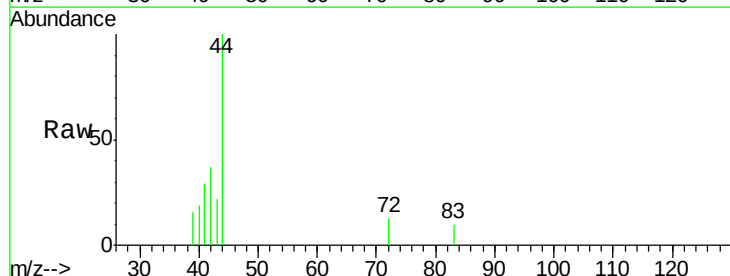
Instrument :
MSVOA_X
ClientSampled :

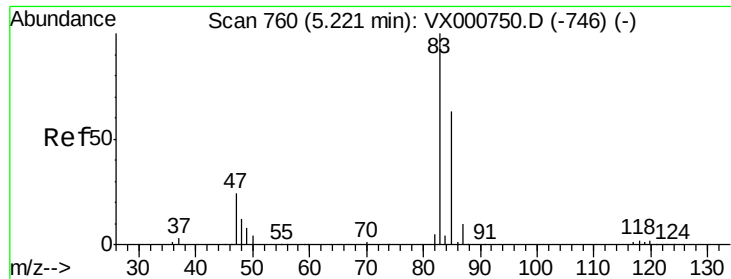
Tot Ion: 49 Resp: 5583
Ion Ratio Lower Upper
49 100
129 0.5 0.0 5.2
130 87.3 72.6 109.0



#29
Tetrahydrofuran
Concen: 0.379 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX000925.D
Acq: 16 Apr 2018 17:57

Tgt Ion: 42 Resp: 452
Ion Ratio Lower Upper
42 100
72 31.0 35.1 52.7#
71 25.0 32.8 49.2#





#30

Chloroform

Concen: 0.524 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

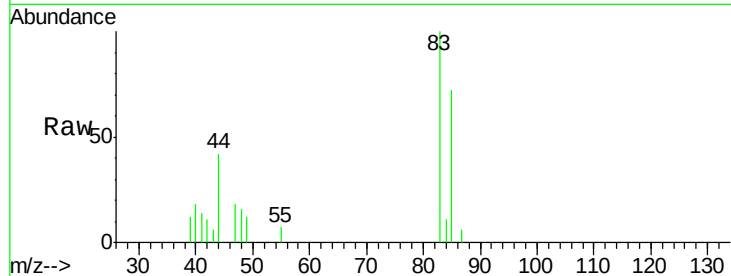
ClientSampleId :

Tot Ion: 83 Resp: 2537

Ion Ratio Lower Upper

83 100

85 71.7 50.7 76.1



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.23

800

600

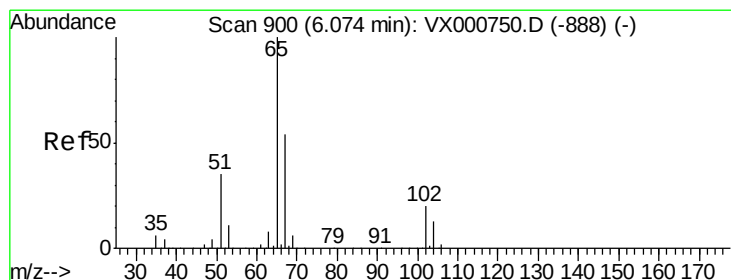
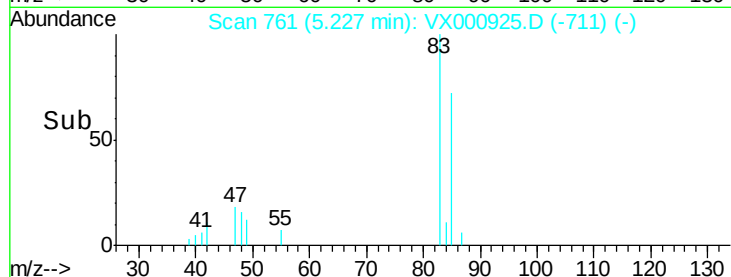
400

200

0

Time-->

5.15 5.20 5.25 5.30



#33

1,2-Dichloroethane-d4

Concen: 47.644 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX000925.D

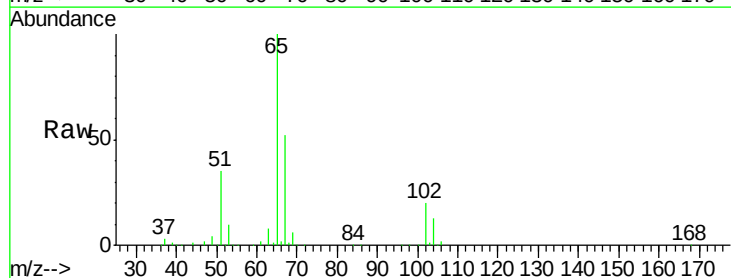
Acq: 16 Apr 2018 17:57

Tgt Ion: 65 Resp: 156962

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

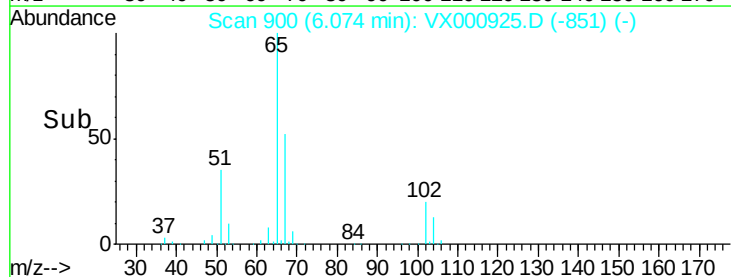
40000

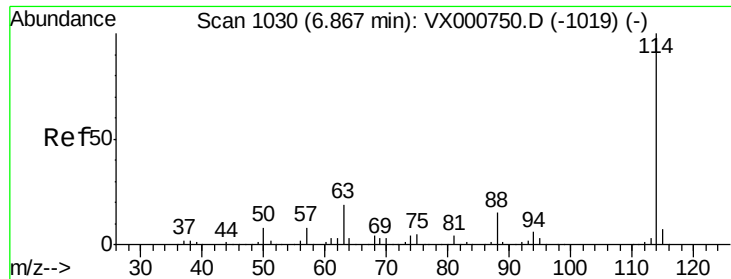
20000

0

Time-->

6.00 6.10 6.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

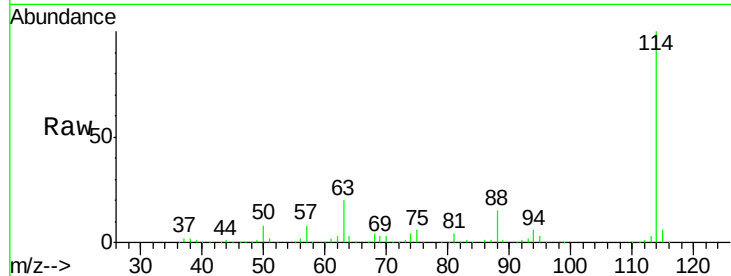
Tot Ion:114 Resp: 355387

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.4

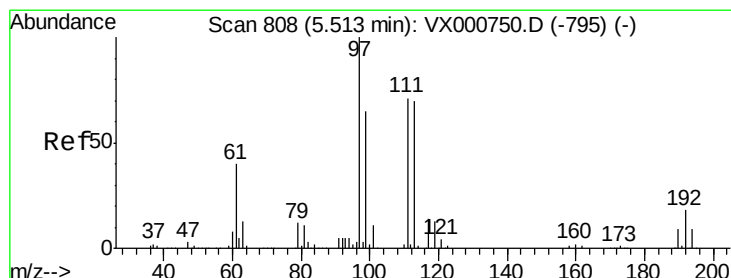
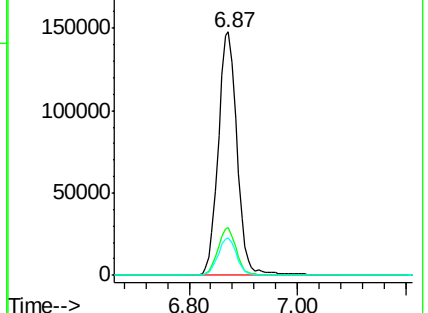
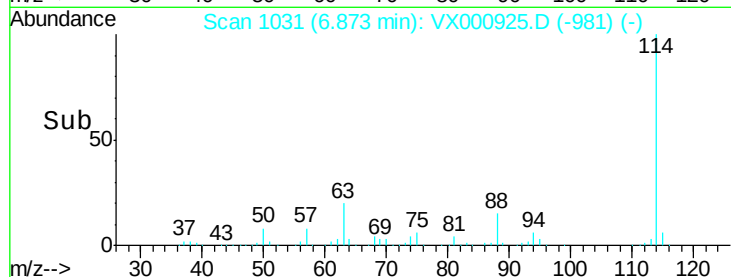
88 15.3 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 45.276 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

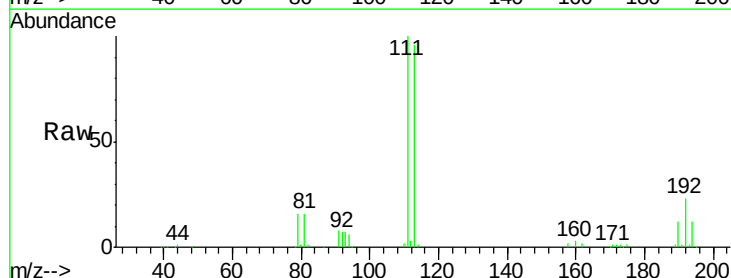
Tgt Ion:113 Resp: 123967

Ion Ratio Lower Upper

113 100

111 102.3 81.5 122.3

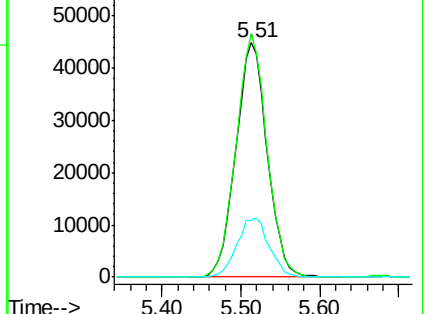
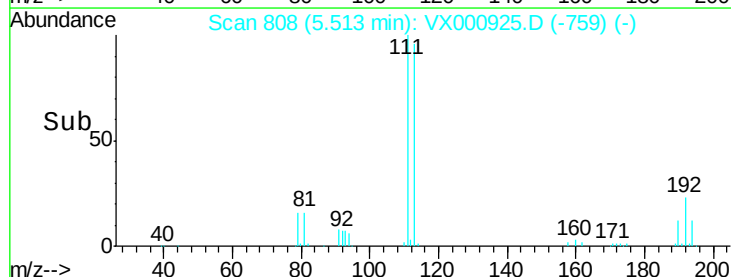
192 25.8 20.4 30.6

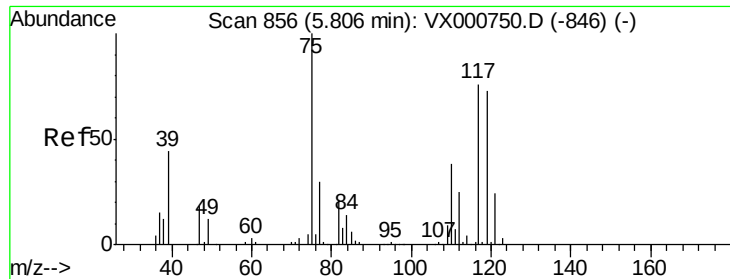


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

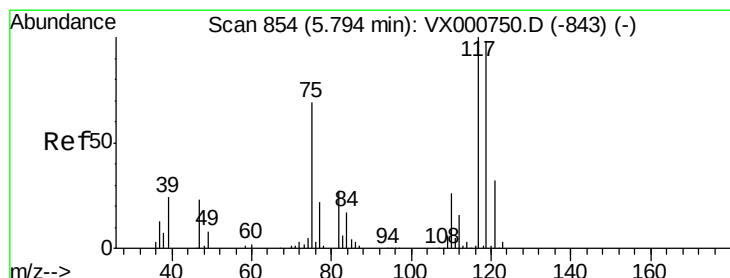
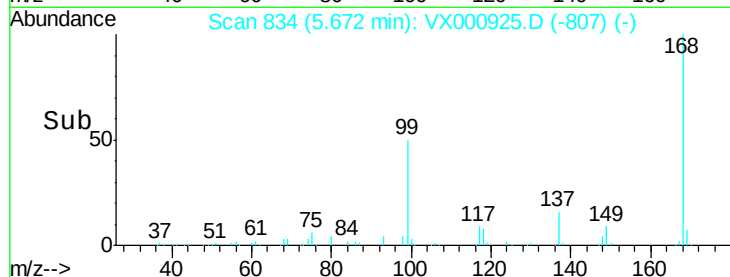
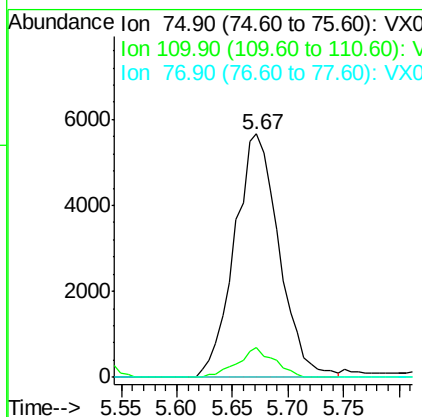
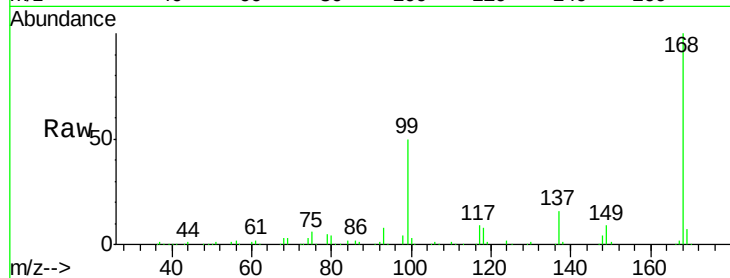




#36
 1,1-Dichloropropene
 Concen: 4.028 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX000925.D
 Acq: 16 Apr 2018 17:57

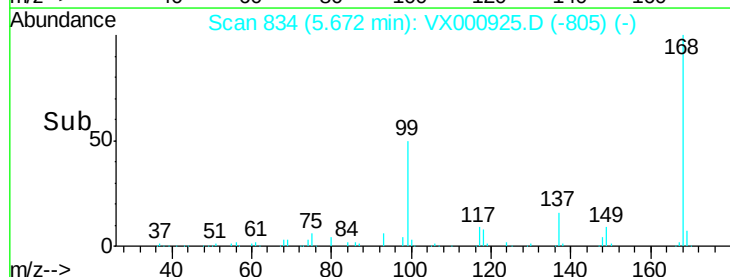
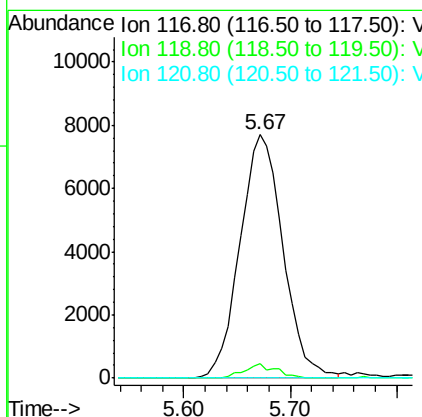
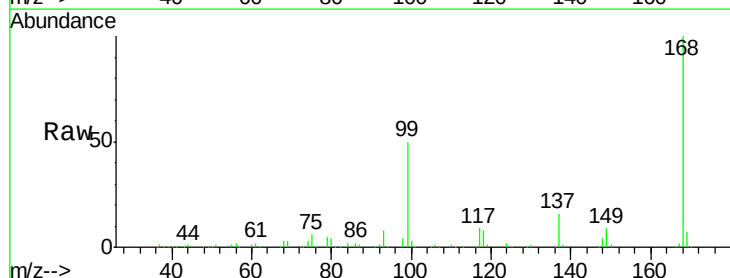
Instrument :
 MSVOA_X
 ClientSampleId :

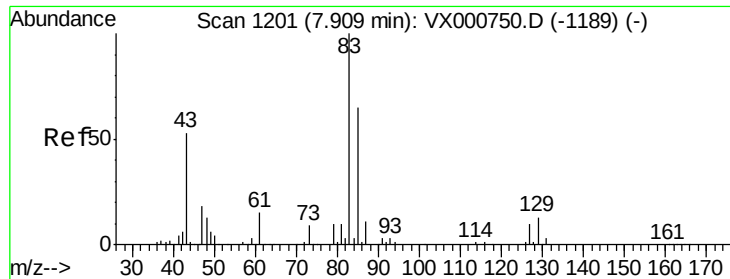
Tot Ion: 75 Resp: 15764
 Ion Ratio Lower Upper
 75 100
 110 10.2 19.2 57.6#
 77 0.0 25.4 38.2#



#38
 Carbon Tetrachloride
 Concen: 4.973 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000925.D
 Acq: 16 Apr 2018 17:57

Tgt Ion: 117 Resp: 21786
 Ion Ratio Lower Upper
 117 100
 119 6.0 78.4 117.6#
 121 0.0 25.4 38.0#





#47

Bromodichloromethane

Concen: 0.206 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

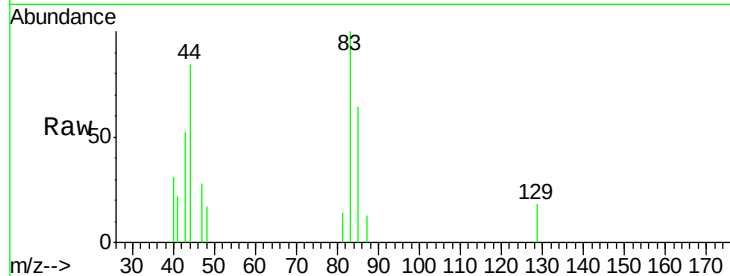
Tot Ion: 83 Resp: 804

Ion Ratio Lower Upper

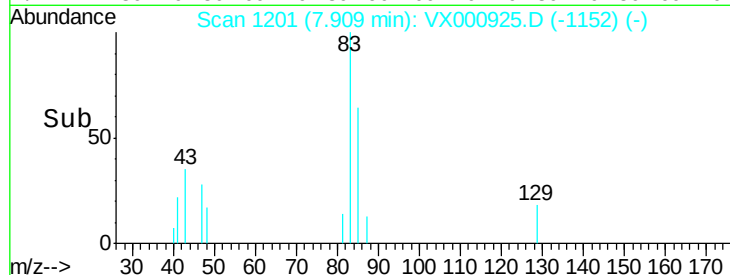
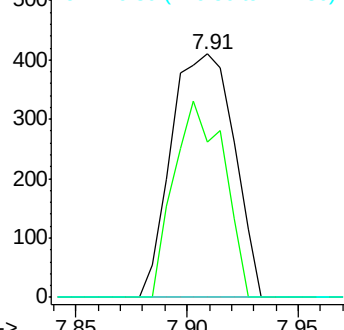
83 100

85 63.7 52.2 78.4

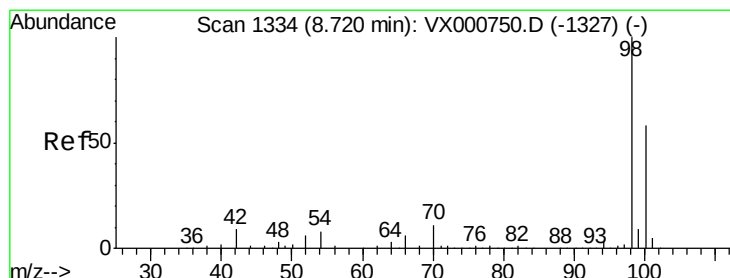
127 0.0 7.8 11.8#



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V



Time-->



#50

Toluene-d8

Concen: 48.446 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX000925.D

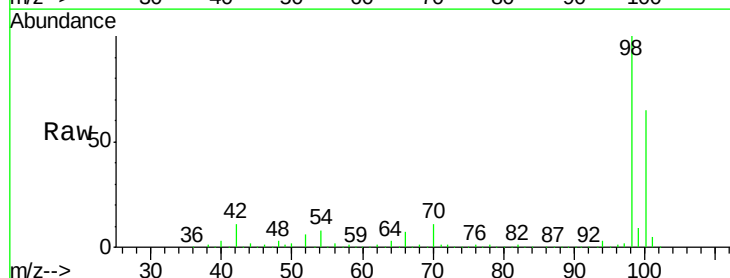
Acq: 16 Apr 2018 17:57

Tgt Ion: 98 Resp: 493894

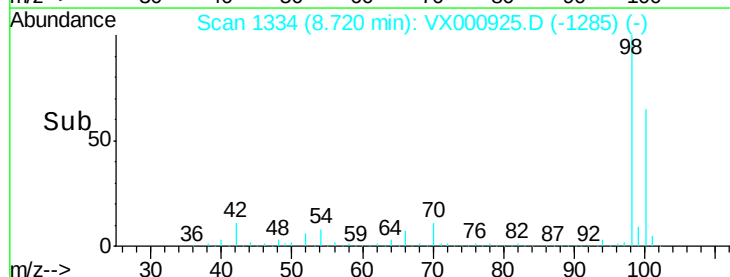
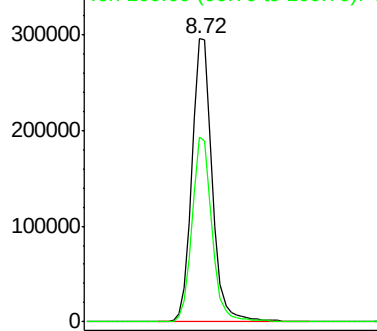
Ion Ratio Lower Upper

98 100

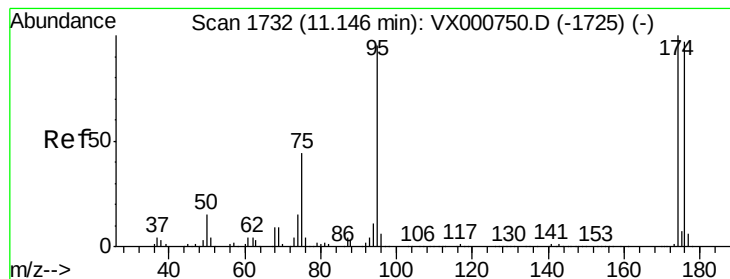
100 64.3 52.6 79.0



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



Time-->



#62

4-Bromofluorobenzene

Concen: 44.761 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

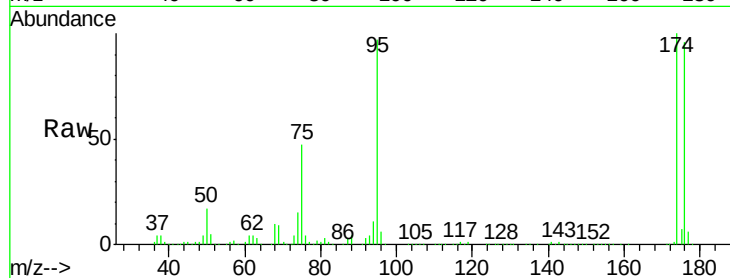
Tot Ion: 95 Resp: 188797

Ion Ratio Lower Upper

95 100

174 98.1 0.0 198.4

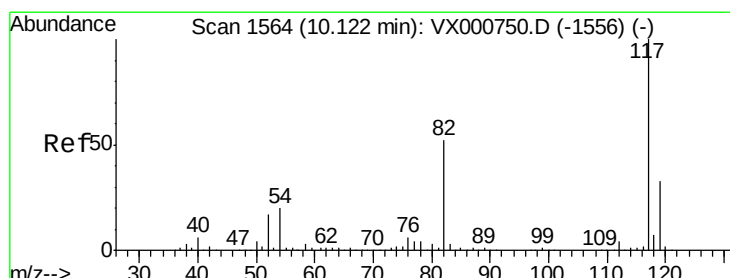
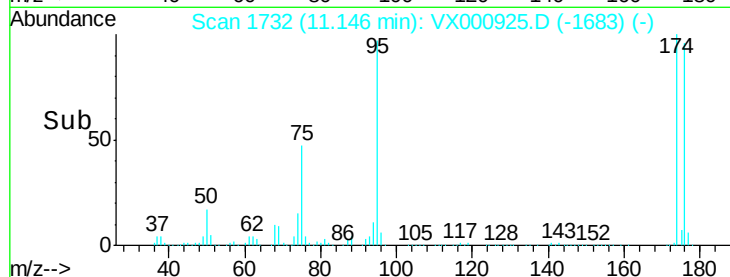
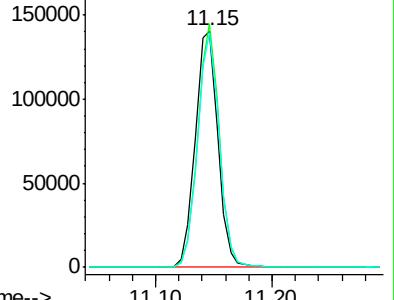
176 95.5 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX000925.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000925.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000925.D (-1683) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

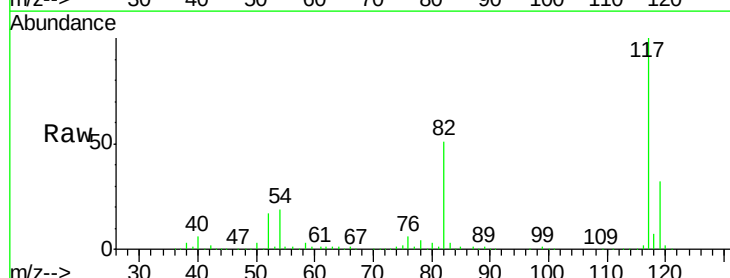
Tgt Ion: 117 Resp: 326528

Ion Ratio Lower Upper

117 100

82 51.0 41.9 62.9

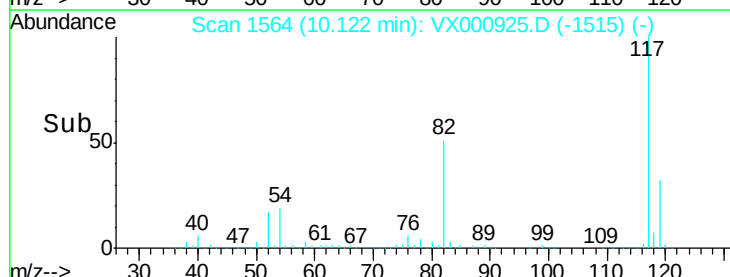
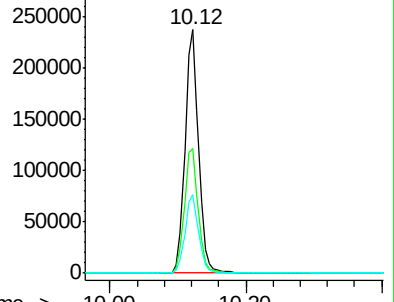
119 32.4 26.0 39.0

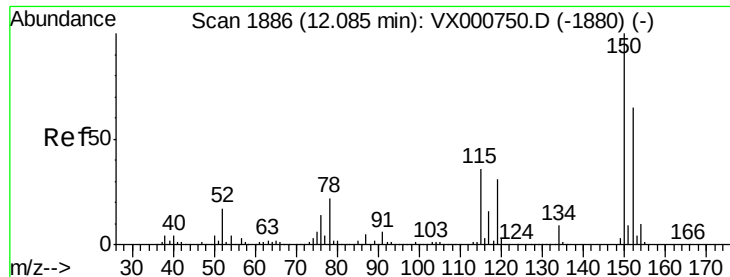


Abundance Ion 116.90 (116.60 to 117.60): VX000925.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000925.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000925.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: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

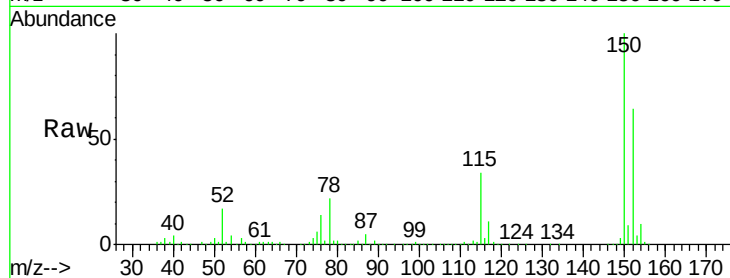
Tot Ion:152 Resp: 210243

Ion Ratio Lower Upper

152 100

115 53.8 37.9 113.7

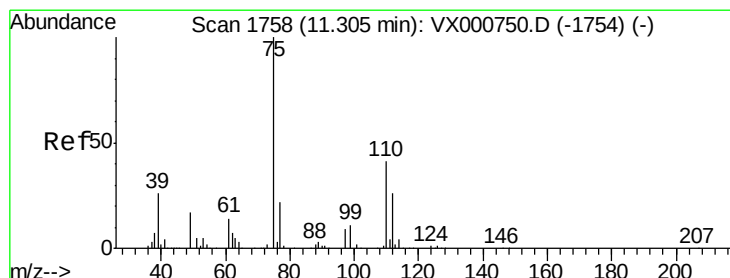
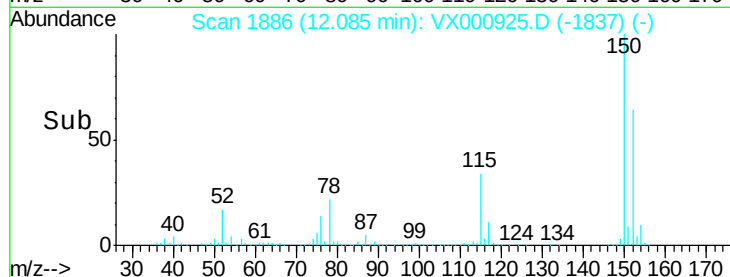
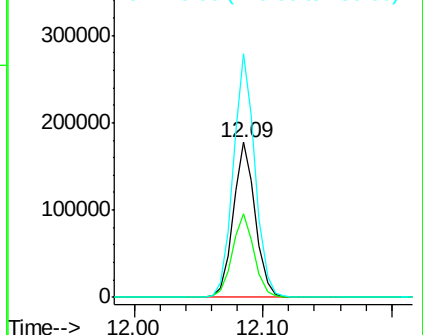
150 155.9 0.0 348.0



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: 25.549 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000925.D

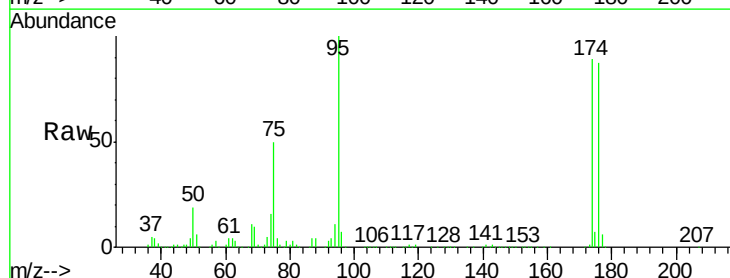
Acq: 16 Apr 2018 17:57

Tgt Ion: 75 Resp: 92637

Ion Ratio Lower Upper

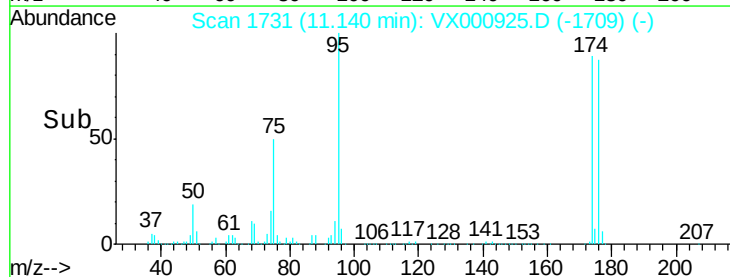
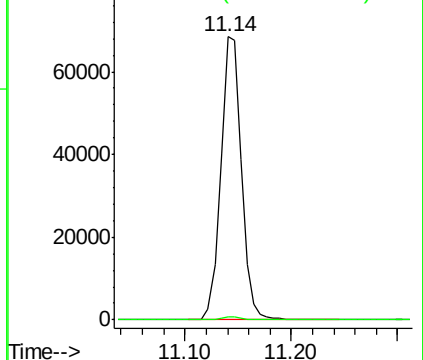
75 100

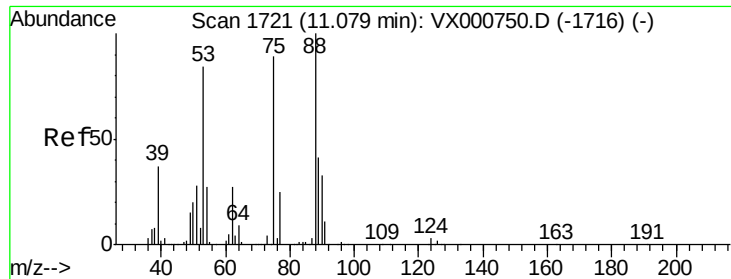
77 1.3 20.5 61.5#



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: 70.280 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

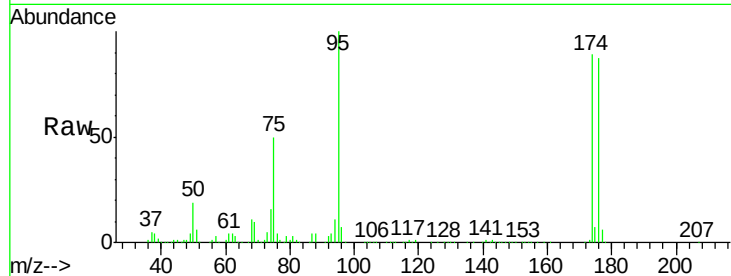
Tot Ion: 75 Resp: 92637

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

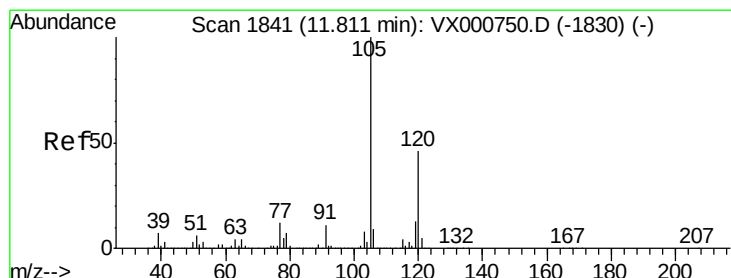
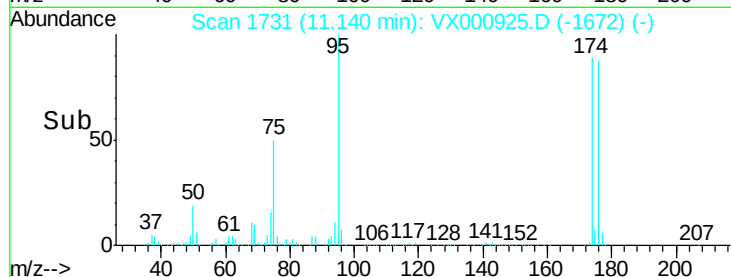
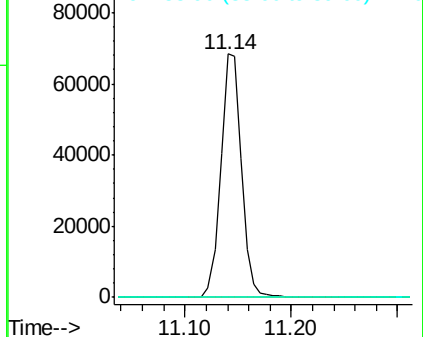
89 0.0 40.9 61.3#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.450 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX000925.D

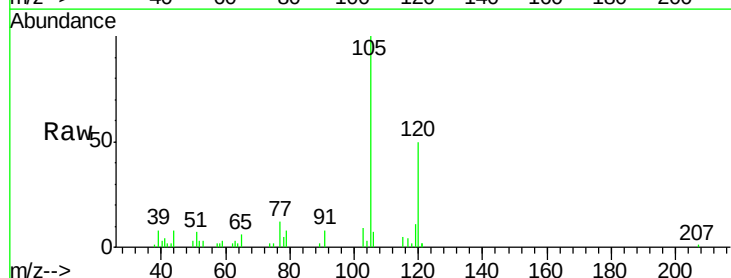
Acq: 16 Apr 2018 17:57

Tgt Ion:105 Resp: 5329

Ion Ratio Lower Upper

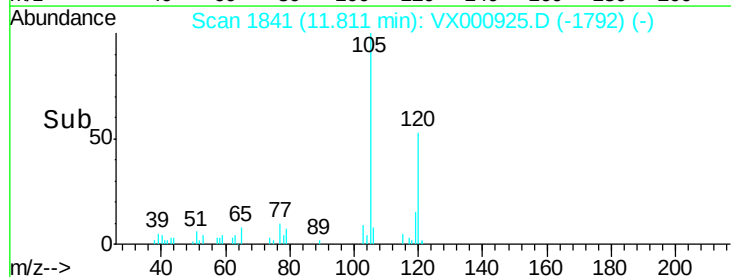
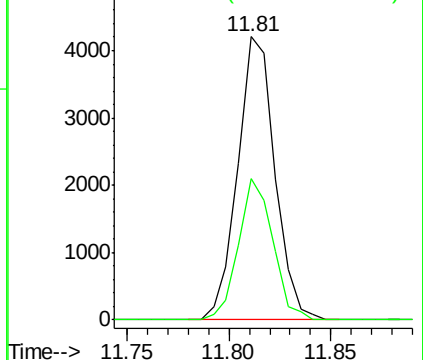
105 100

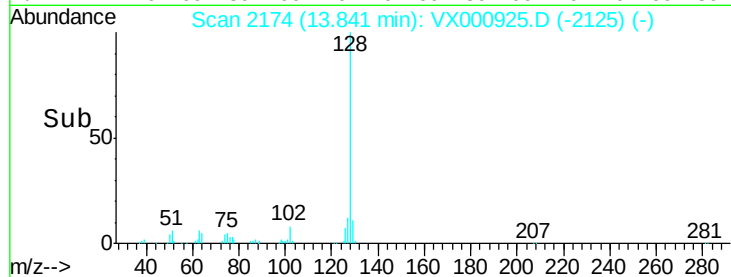
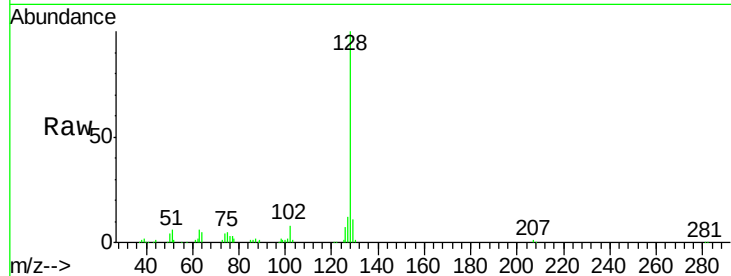
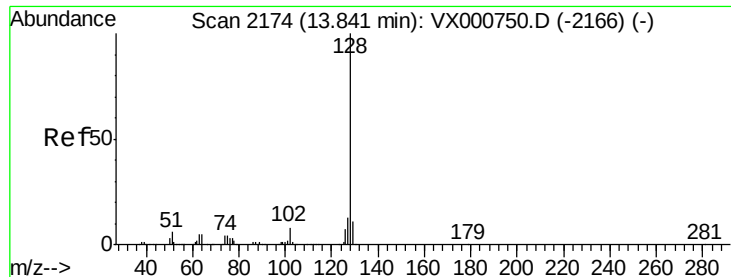
120 45.8 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 2.968 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000925.D

Acq: 16 Apr 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:128 Resp: 45406

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 10.8 8.7 13.1

