

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX110118\
 Data File : VX005738.D
 Acq On : 01 Nov 2018 19:12
 Operator : JC/MD
 Sample : PB114370ZHE#04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114370ZHE#04

Quant Time: Nov 02 04:19:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	116942	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.87	114	198654	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	169512	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	74489	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	88943	52.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.04%	
35) Dibromofluoromethane	5.50	113	67797	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
50) Toluene-d8	8.71	98	238791	49.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.00%	
62) 4-Bromofluorobenzene	11.14	95	75899	42.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.26%	

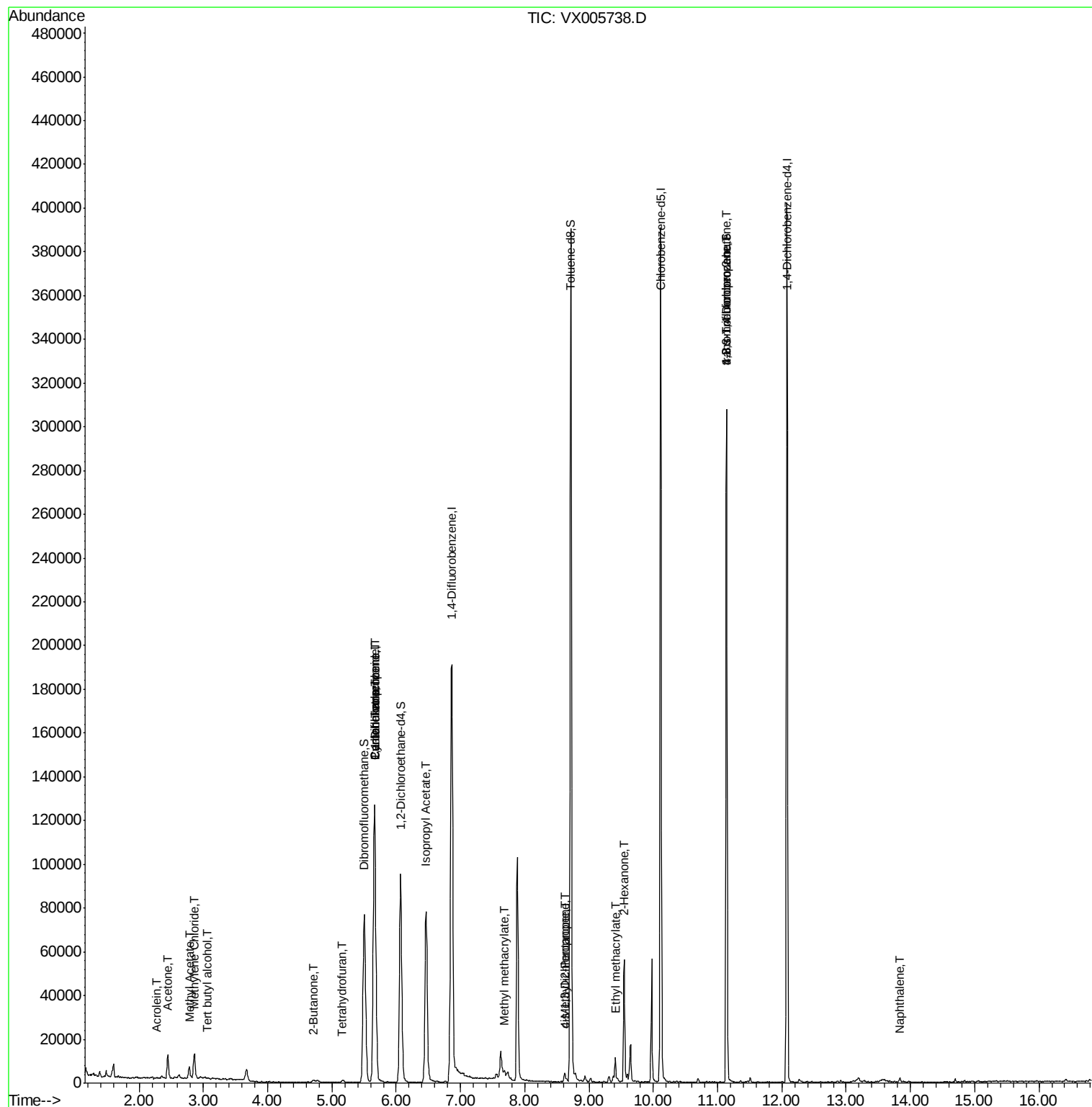
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.75	64	43	Below Cal	#	42
11) Tert butyl alcohol	3.07	59	311	0.670	ug/l #	72
13) Acrolein	2.28	56	23	12.249	ug/l #	19
16) Acetone	2.45	43	10935	3.241	ug/l	92
18) Methyl Acetate	2.78	43	6360	2.592	ug/l #	91
20) Methylene Chloride	2.86	84	5031	3.412	ug/l	88
25) 2-Butanone	4.71	43	1494	1.036	ug/l	96
29) Tetrahydrofuran	5.16	42	876	0.995	ug/l #	78
31) Cyclohexane	5.66	56	2991	1.309	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	10539	4.979	ug/l #	48
38) Carbon Tetrachloride	5.67	117	12128	6.342	ug/l #	15
43) Isopropyl Acetate	6.46	43	103822	26.491	ug/l	98
48) Methyl methacrylate	7.68	41	3646	1.922	ug/l #	27
51) 4-Methyl-2-Pentanone	8.62	43	1471	0.550	ug/l #	38
54) cis-1,3-Dichloropropene	8.62	75	632	0.281	ug/l #	75
56) Ethyl methacrylate	9.41	69	184	2.540	ug/l #	1
59) 2-Hexanone	9.55	43	6414	2.949	ug/l #	59
76) 1,2,3-Trichloropropane	11.14	75	41271	22.246	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	41271	71.874	ug/l #	9
95) Naphthalene	13.83	128	1359	0.262	ug/l #	91

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

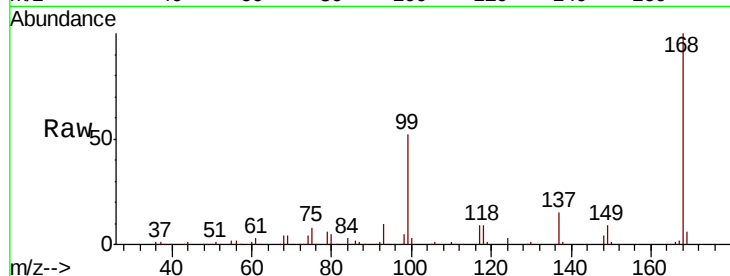
PB114370ZHE#04

Tgt Ion:168 Resp: 116942

Ion Ratio Lower Upper

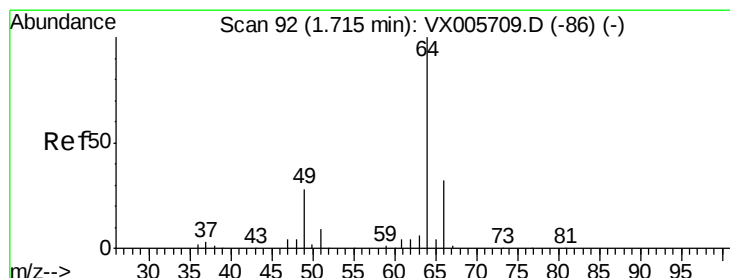
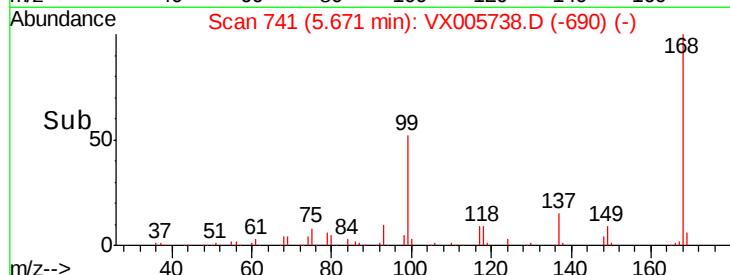
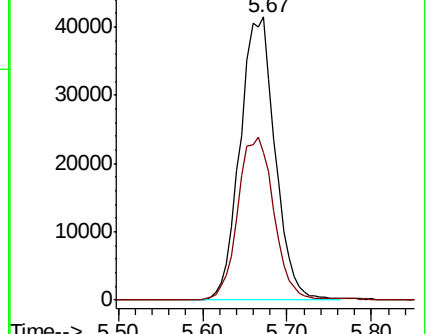
168 100

99 52.2 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX005738.D

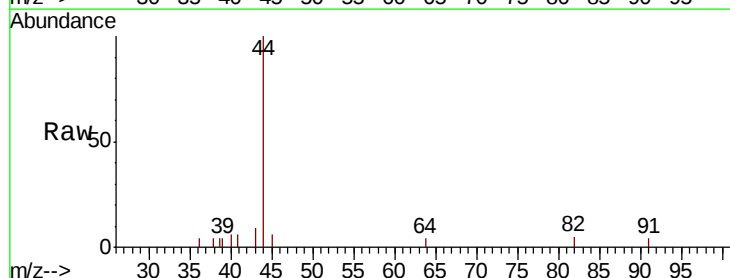
Acq: 01 Nov 2018 19:12

Tgt Ion: 64 Resp: 43

Ion Ratio Lower Upper

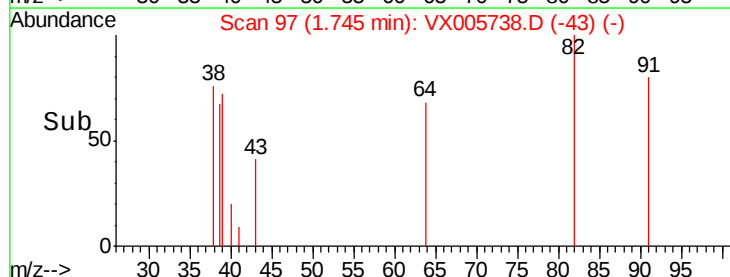
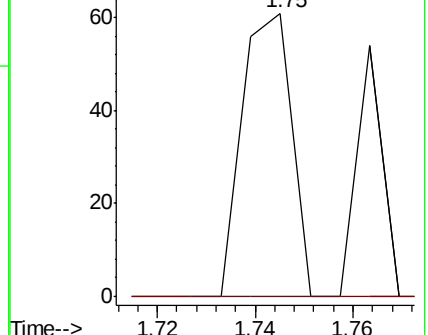
64 100

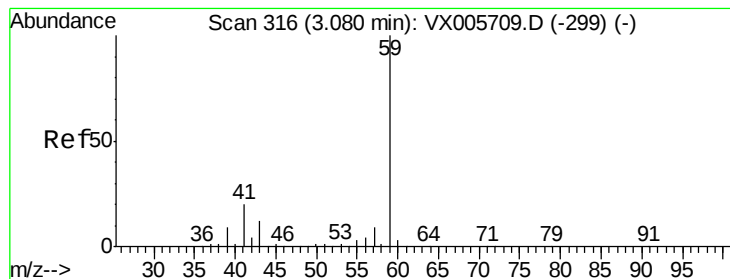
66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#11

Tert butyl alcohol

Concen: 0.670 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

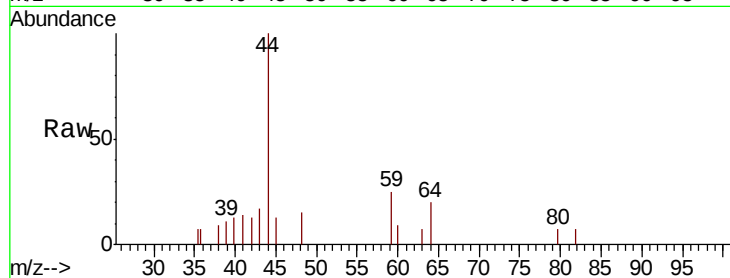
PB114370ZHE#04

Tgt Ion: 59 Resp: 311

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

250

200

150

100

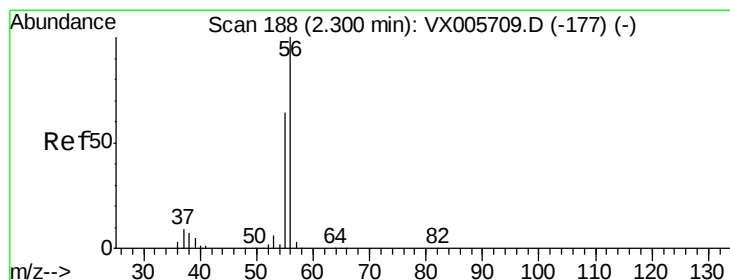
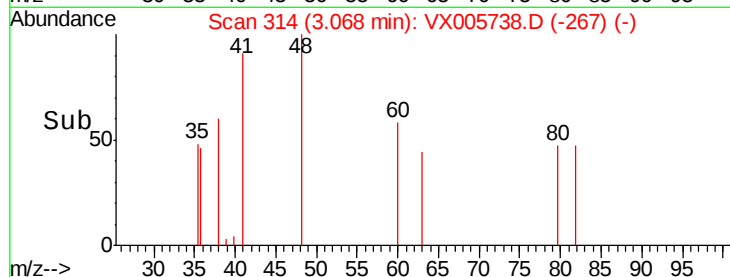
50

0

3.05

3.10

Time-->



#13

Acrolein

Concen: 12.249 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX005738.D

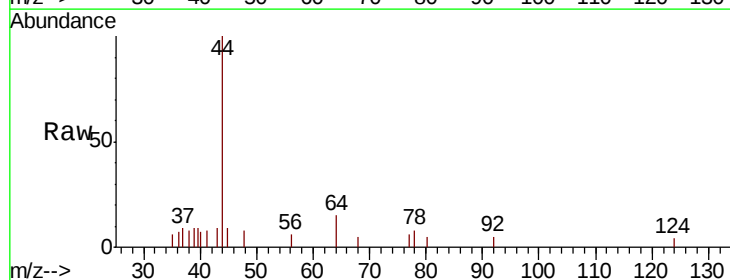
Acq: 01 Nov 2018 19:12

Tgt Ion: 56 Resp: 23

Ion Ratio Lower Upper

56 100

55 139.1 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

100

80

60

40

20

0

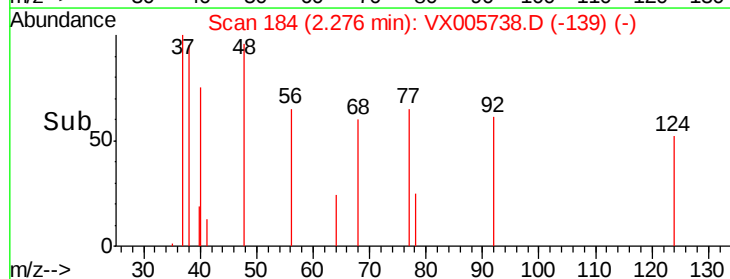
2.26

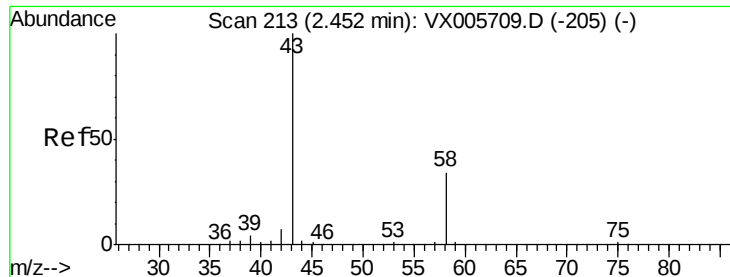
2.27

2.28

2.29

Time-->





#16

Acetone

Concen: 3.241 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

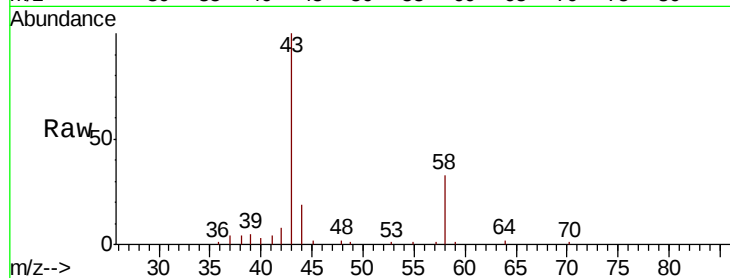
PB114370ZHE#04

Tgt Ion: 43 Resp: 10935

Ion Ratio Lower Upper

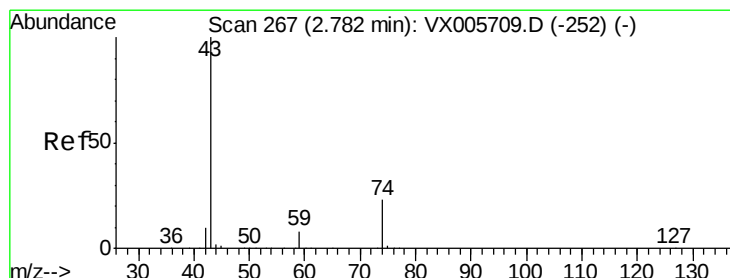
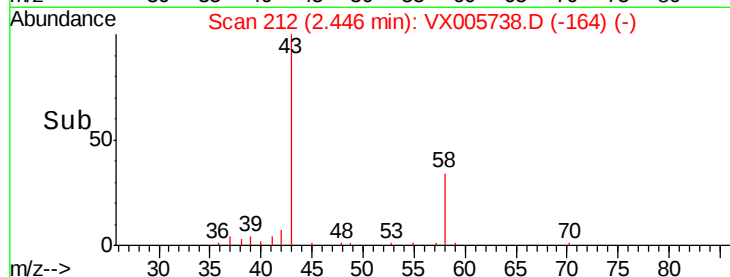
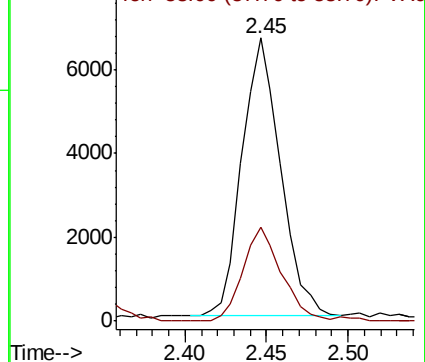
43 100

58 33.9 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 2.592 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005738.D

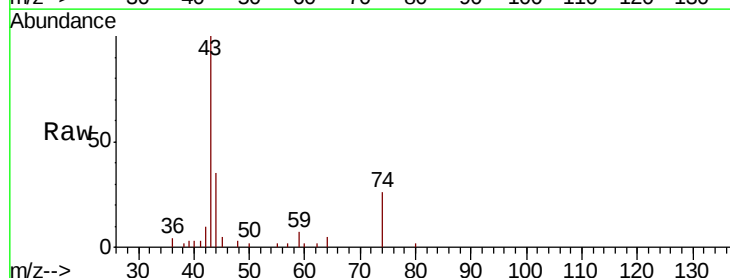
Acq: 01 Nov 2018 19:12

Tgt Ion: 43 Resp: 6360

Ion Ratio Lower Upper

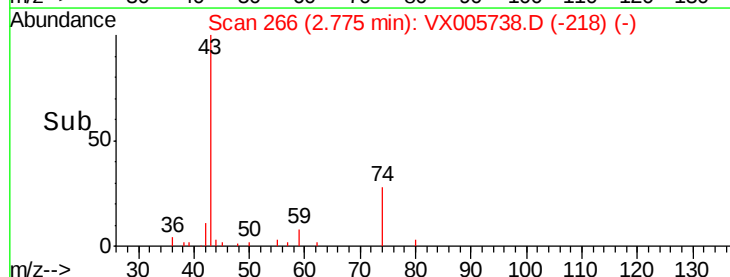
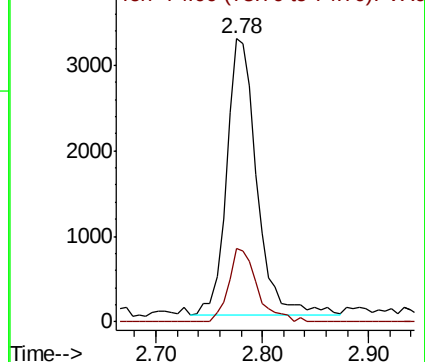
43 100

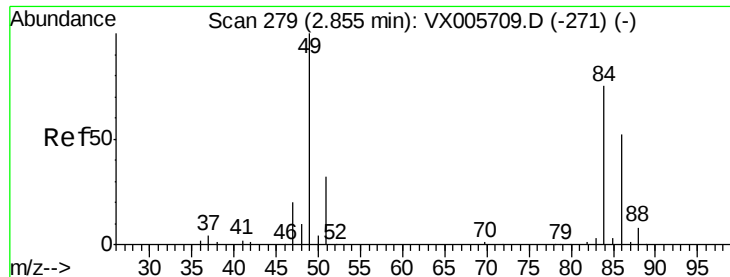
74 25.3 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

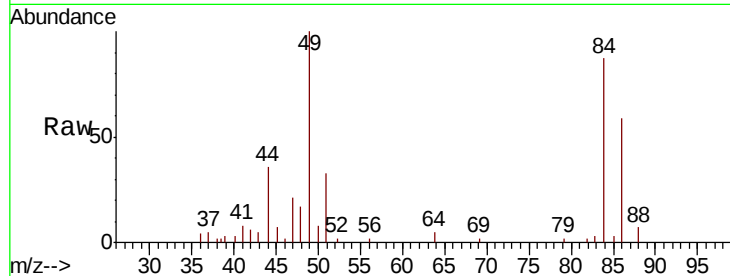




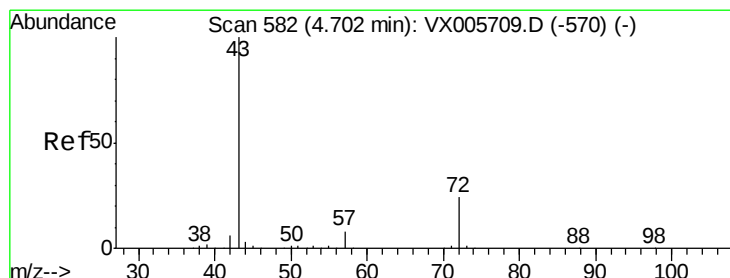
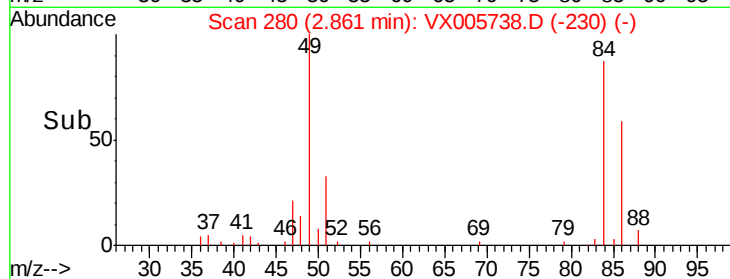
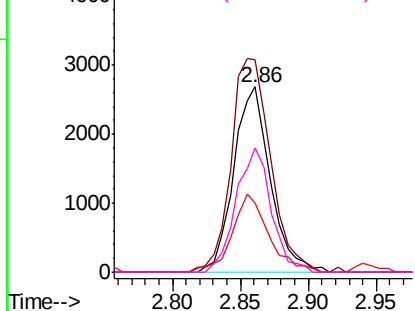
#20
Methylene Chloride
Concen: 3.412 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005738.D
Acq: 01 Nov 2018 19:12

Instrument :
MSVOA_X
ClientSampleId :
PB114370ZHE#04

Tgt Ion: 84 Resp: 5031
Ion Ratio Lower Upper
84 100
49 115.1 109.5 164.3
51 37.5 33.3 49.9
86 67.4 52.7 79.1

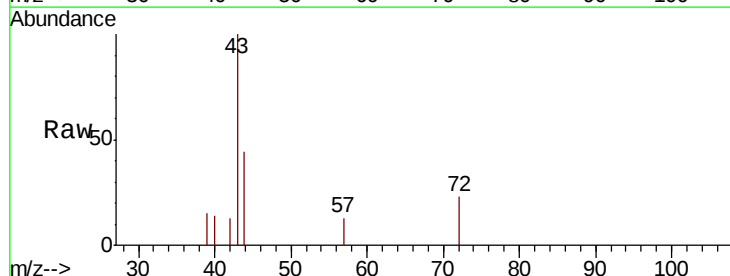


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

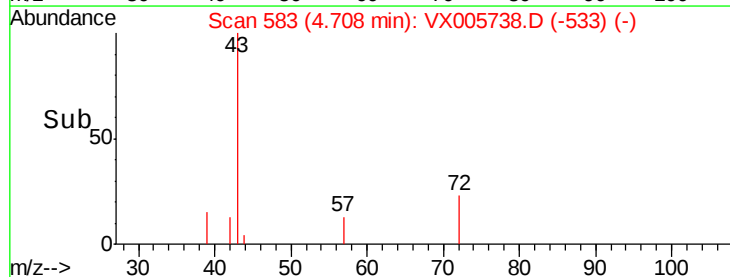
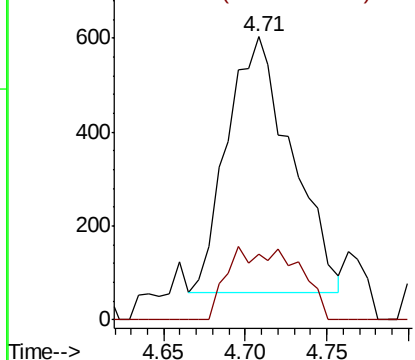


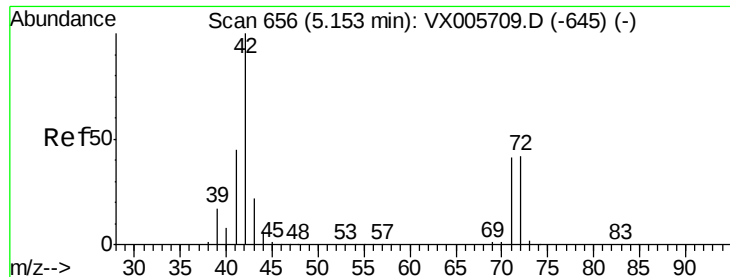
#25
2-Butanone
Concen: 1.036 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX005738.D
Acq: 01 Nov 2018 19:12

Tgt Ion: 43 Resp: 1494
Ion Ratio Lower Upper
43 100
72 25.7 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

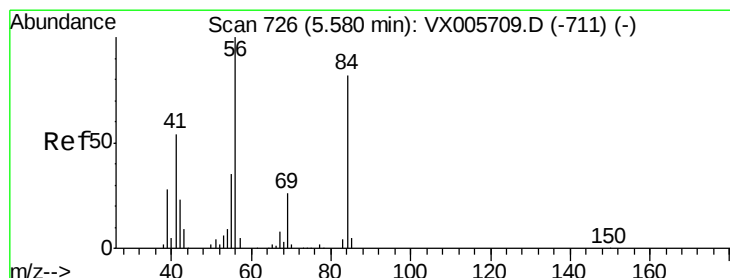
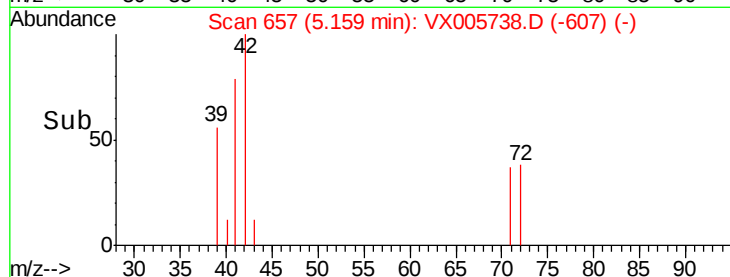
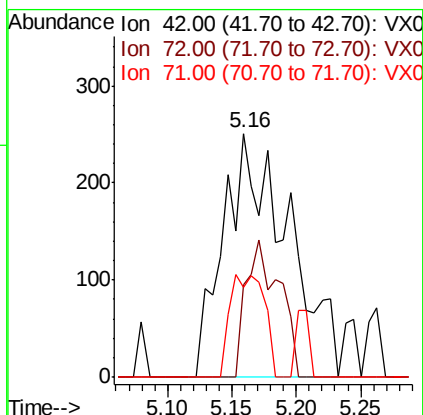
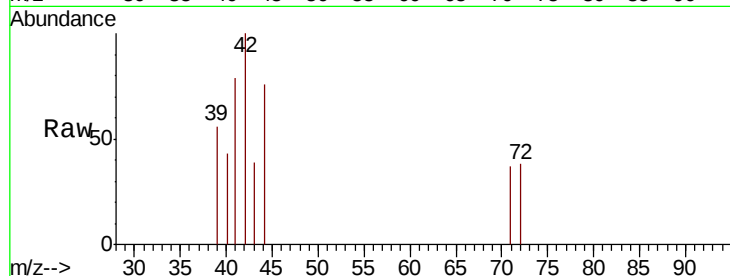




#29
Tetrahydrofuran
Concen: 0.995 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX005738.D
Acq: 01 Nov 2018 19:12

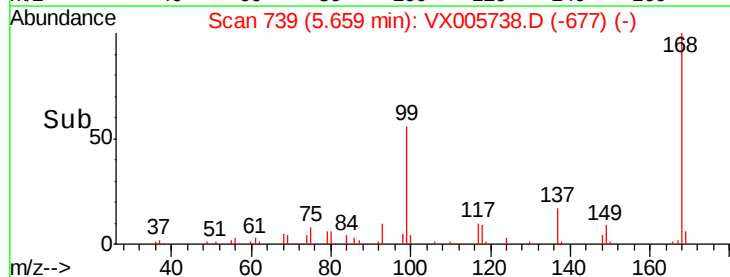
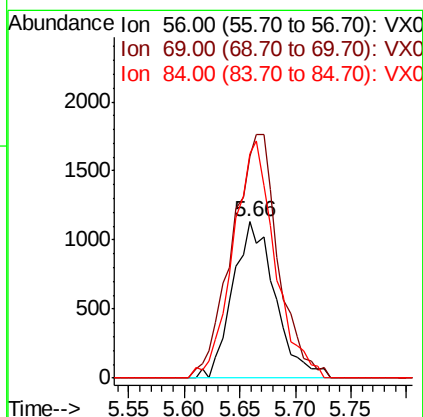
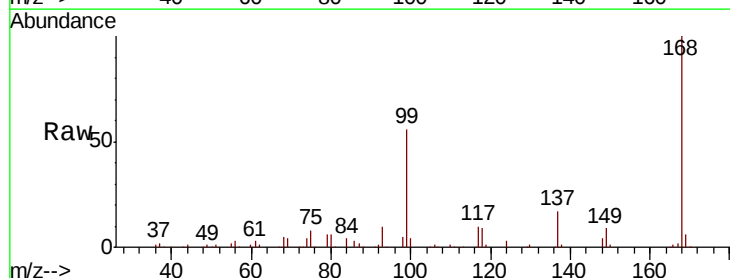
Instrument :
MSVOA_X
ClientSampleId :
PB114370ZHE#04

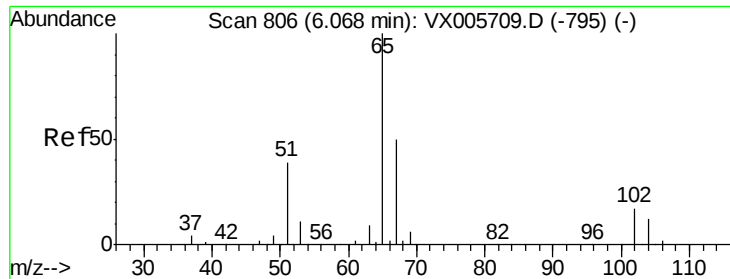
Tgt Ion: 42 Resp: 876
Ion Ratio Lower Upper
42 100
72 28.8 32.0 48.0#
71 22.3 29.8 44.8#



#31
Cyclohexane
Concen: 1.309 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX005738.D
Acq: 01 Nov 2018 19:12

Tgt Ion: 56 Resp: 2991
Ion Ratio Lower Upper
56 100
69 141.5 22.6 34.0#
84 143.2 62.7 94.1#

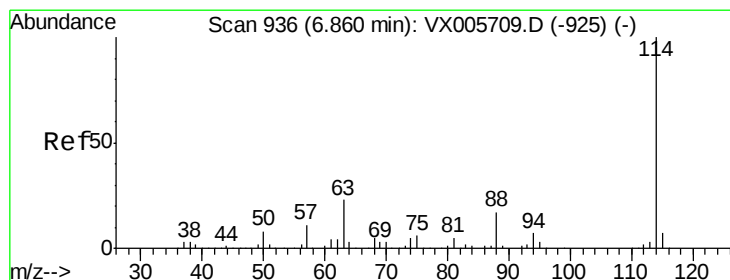
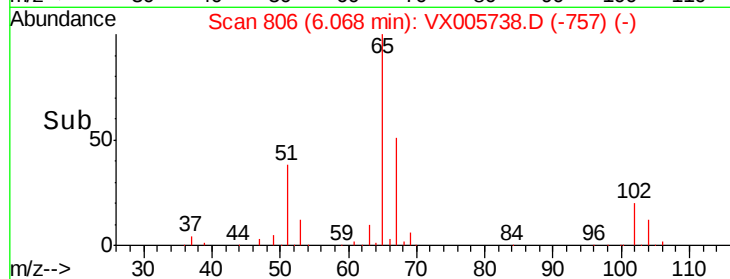
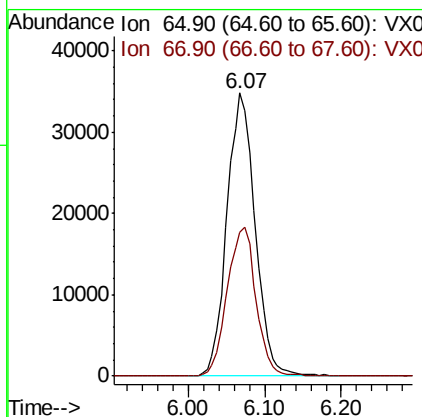
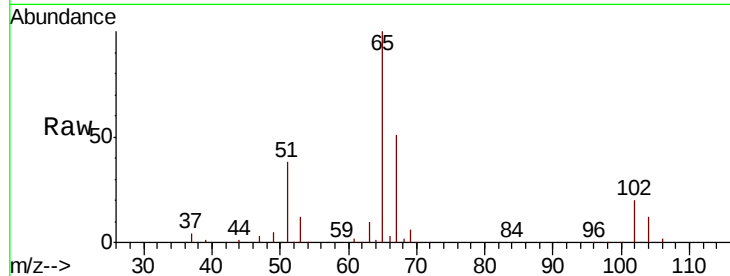




#33
 1,2-Dichloroethane-d4
 Concen: 52.022 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005738.D
 Acq: 01 Nov 2018 19:12

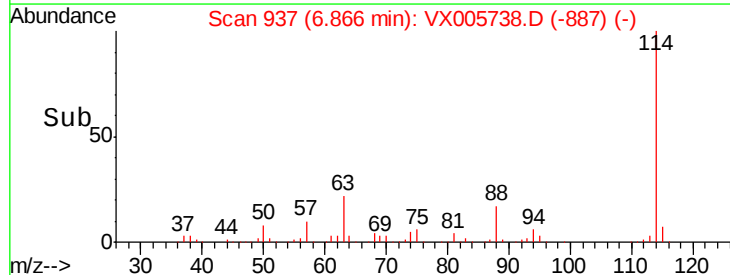
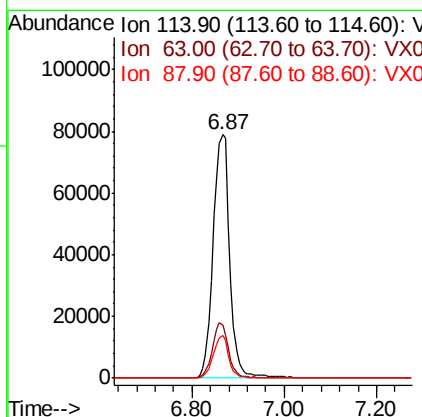
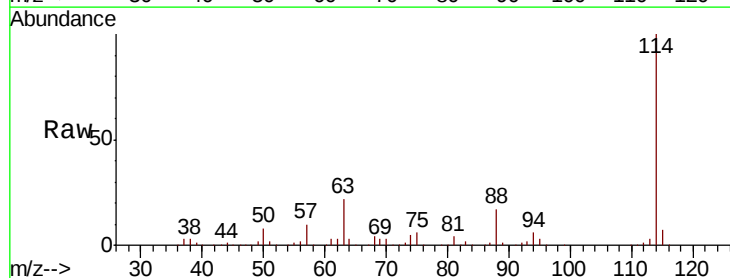
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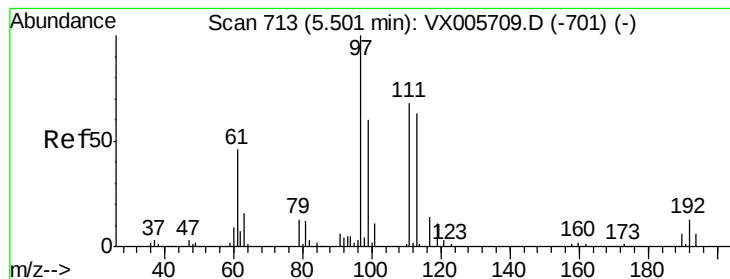
Tgt Ion: 65 Resp: 88943
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005738.D
 Acq: 01 Nov 2018 19:12

Tgt Ion: 114 Resp: 198654
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 42.8
 88 17.3 0.0 31.2





#35

Dibromofluoromethane

Concen: 49.289 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

PB114370ZHE#04

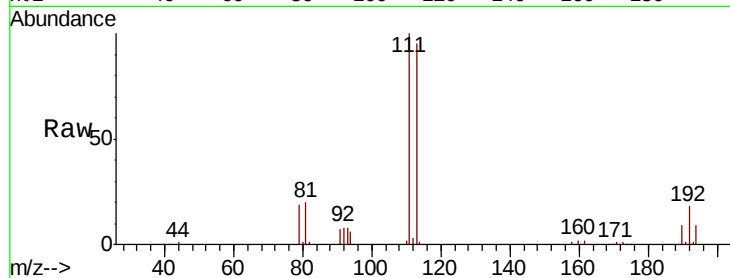
Tgt Ion:113 Resp: 67797

Ion Ratio Lower Upper

113 100

111 100.7 82.3 123.5

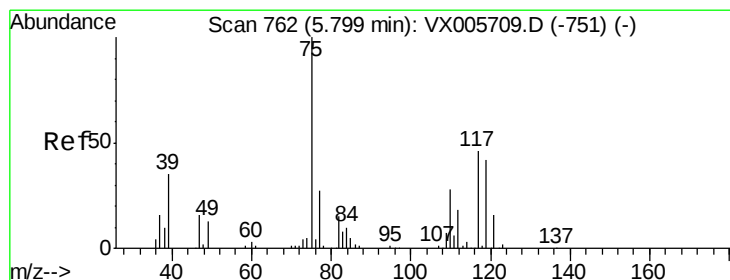
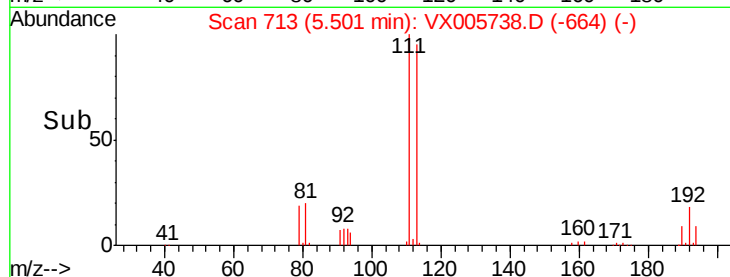
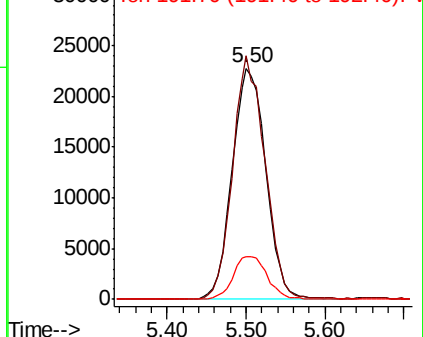
192 18.7 17.9 26.9



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: 4.979 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

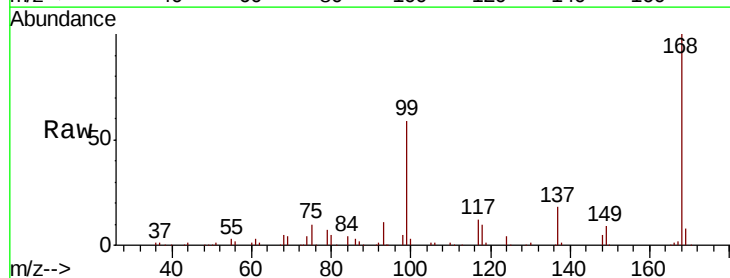
Tgt Ion: 75 Resp: 10539

Ion Ratio Lower Upper

75 100

110 7.5 17.4 52.2#

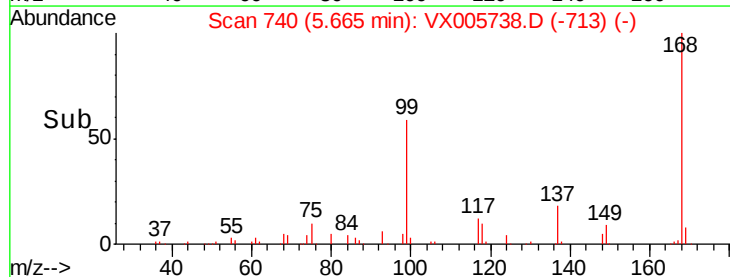
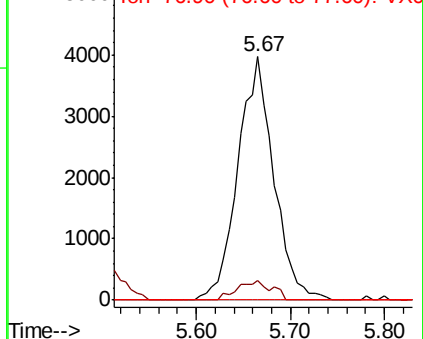
77 0.0 25.8 38.6#

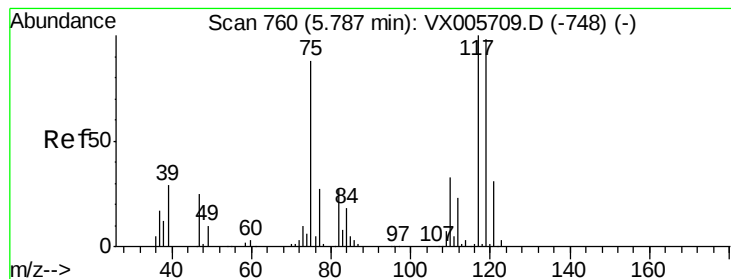


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.342 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

PB114370ZHE#04

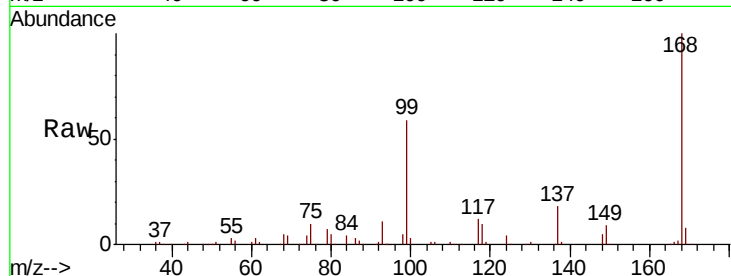
Tgt Ion:117 Resp: 12128

Ion Ratio Lower Upper

117 100

119 4.8 78.1 117.1#

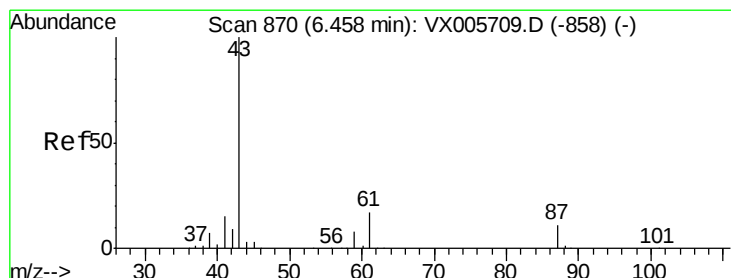
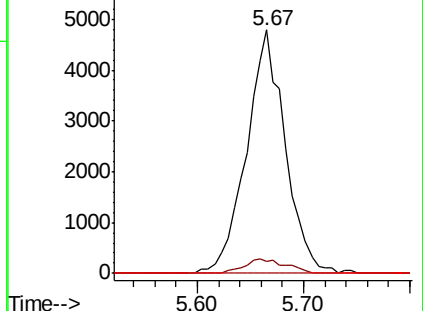
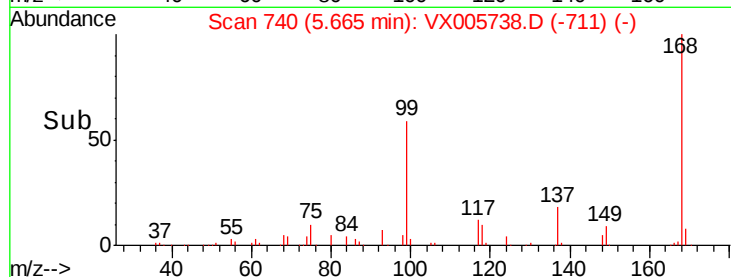
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 26.491 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

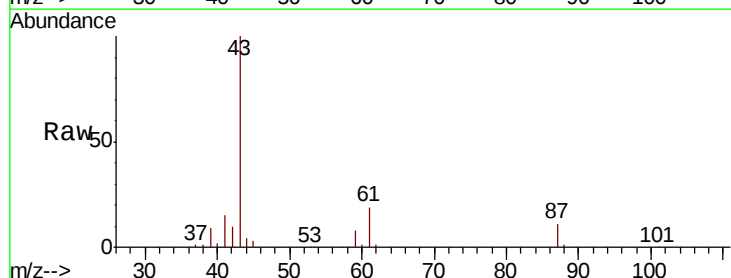
Tgt Ion: 43 Resp: 103822

Ion Ratio Lower Upper

43 100

61 19.9 14.6 22.0

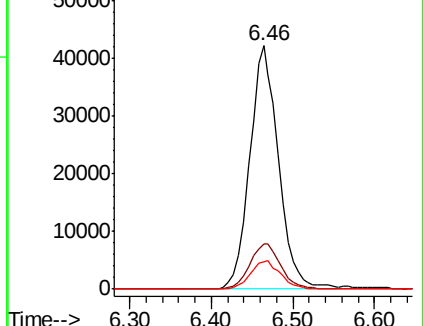
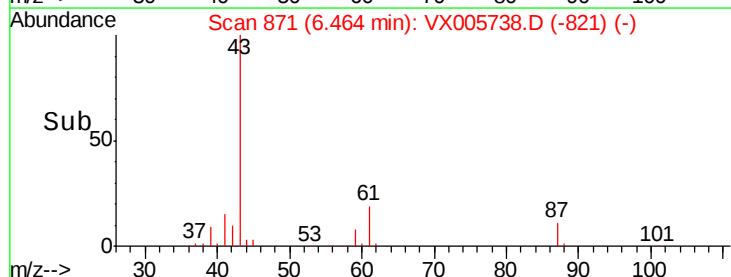
87 12.3 9.6 14.4

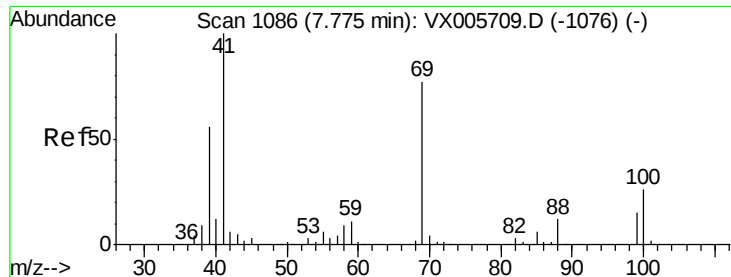


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

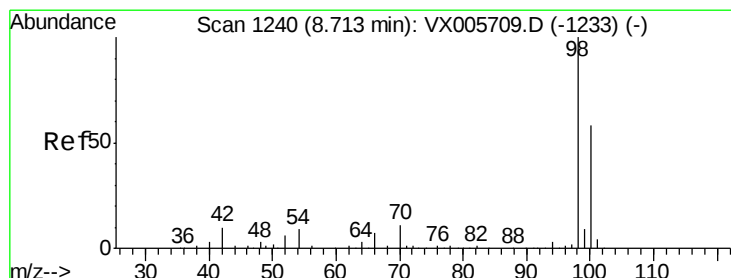
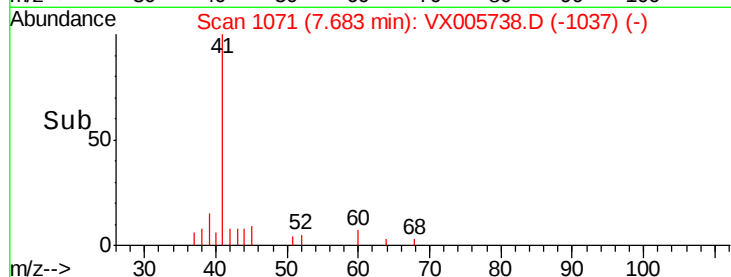
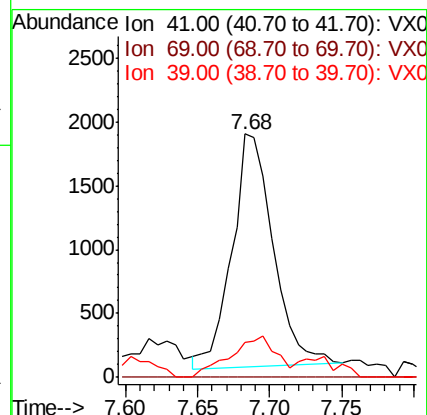
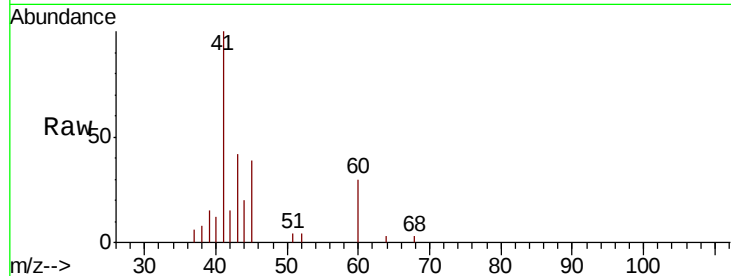




#48
Methyl methacrylate
Concen: 1.922 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX005738.D
Acq: 01 Nov 2018 19:12

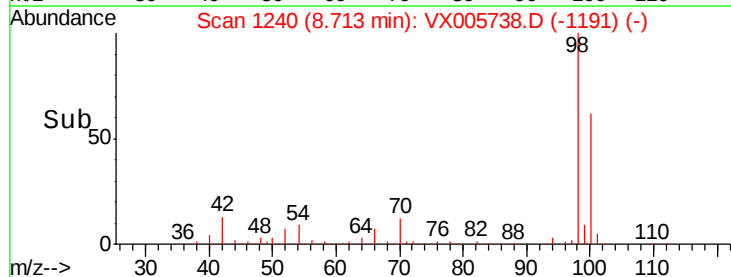
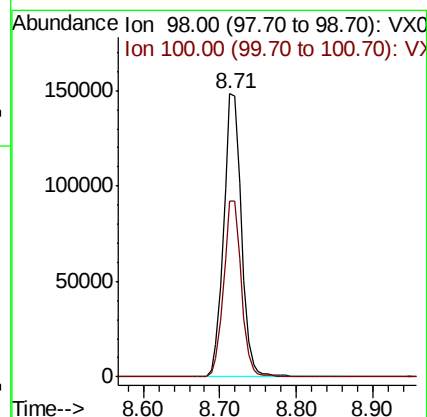
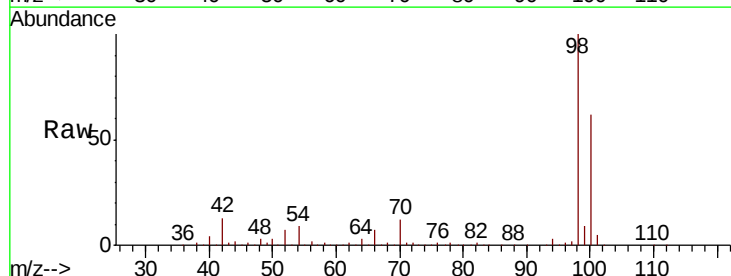
Instrument :
MSVOA_X
ClientSampleId :
PB114370ZHE#04

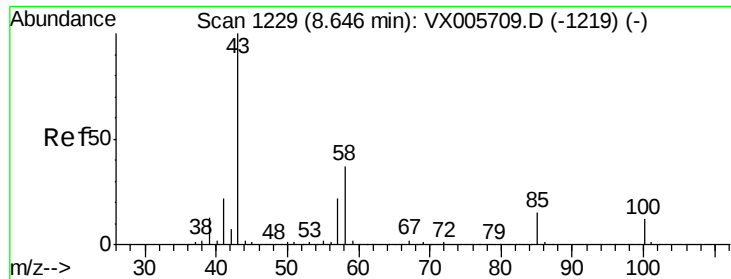
Tgt Ion: 41 Resp: 3646
Ion Ratio Lower Upper
41 100
69 0.0 63.2 94.8#
39 19.6 42.2 63.2#



#50
Toluene-d8
Concen: 49.497 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005738.D
Acq: 01 Nov 2018 19:12

Tgt Ion: 98 Resp: 238791
Ion Ratio Lower Upper
98 100
100 61.6 51.3 76.9





#51

4-Methyl-2-Pentanone

Concen: 0.550 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

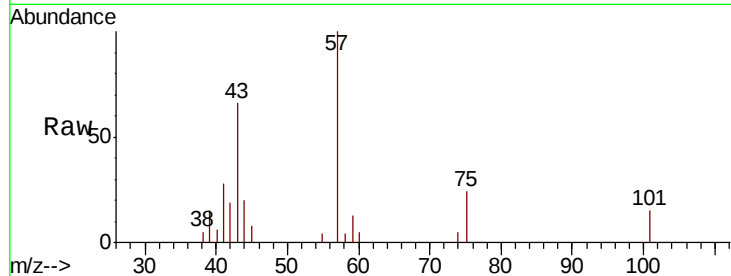
PB114370ZHE#04

Tgt Ion: 43 Resp: 1471

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

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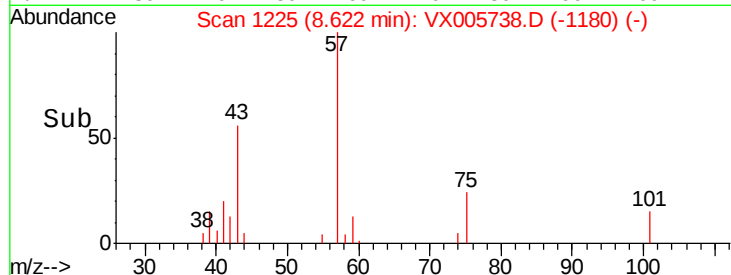
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Time--> 8.55

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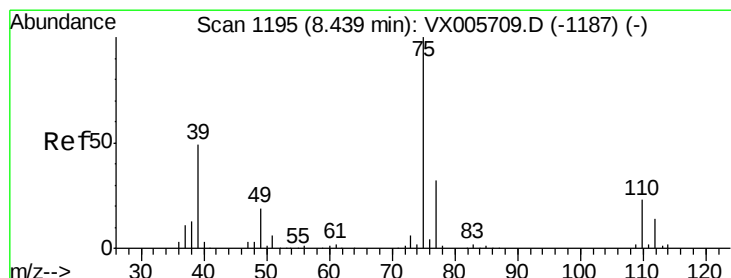
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#54

cis-1,3-Dichloropropene

Concen: 0.281 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

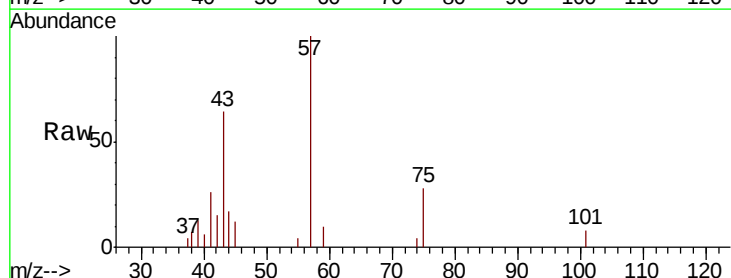
Tgt Ion: 75 Resp: 632

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 45.3 38.2 57.2



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

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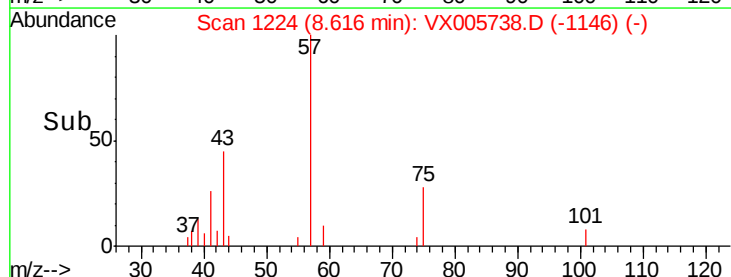
8.62

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Time--> 8.60

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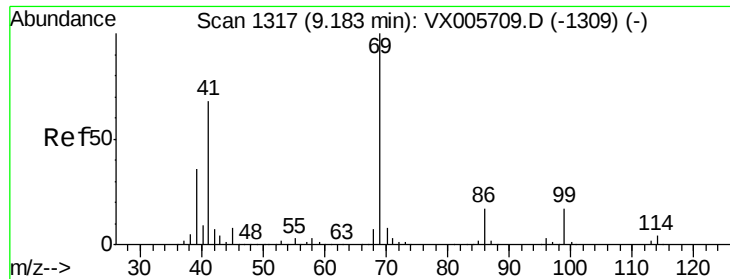
8.62

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8.62



#56

Ethyl methacrylate

Concen: 2.540 ug/l

RT: 9.41 min Scan# 1354

Delta R.T. 0.23 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

PB114370ZHE#04

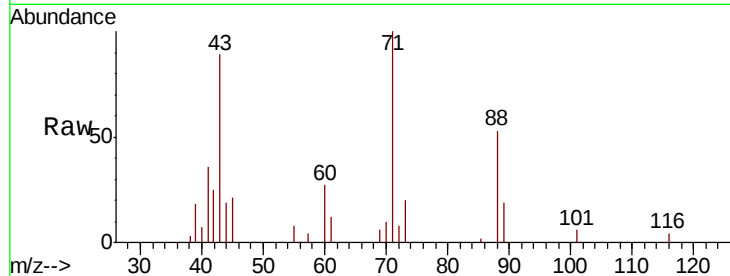
Tgt Ion: 69 Resp: 184

Ion Ratio Lower Upper

69 100

41 482.1 57.0 85.6#

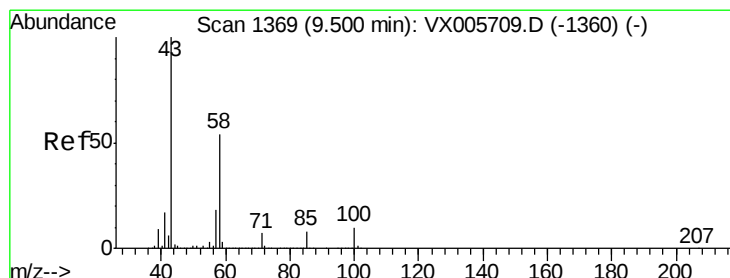
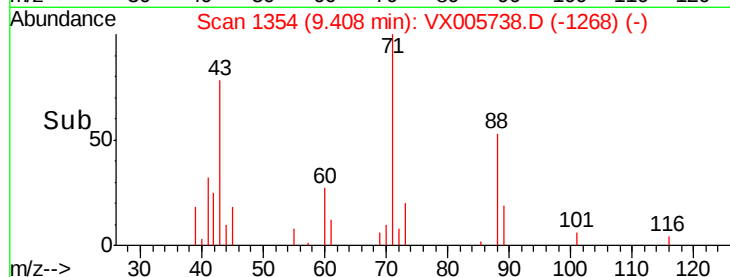
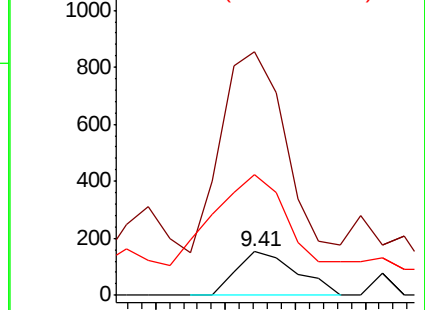
39 366.3 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 2.949 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX005738.D

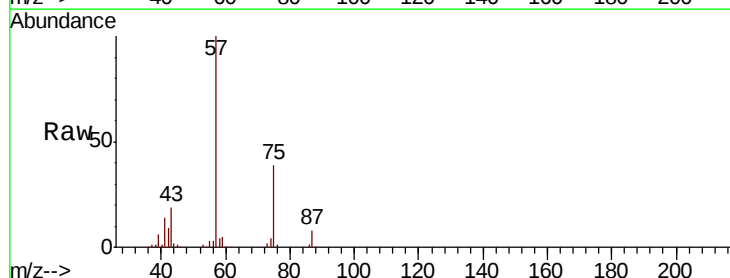
Acq: 01 Nov 2018 19:12

Tgt Ion: 43 Resp: 6414

Ion Ratio Lower Upper

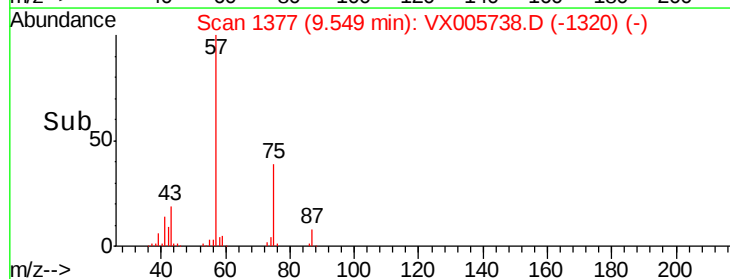
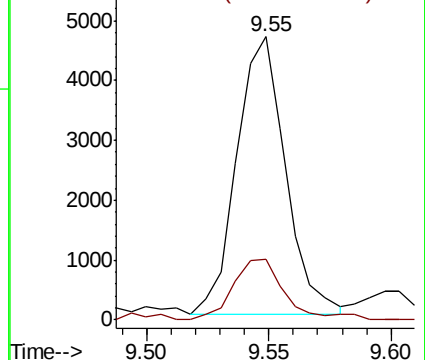
43 100

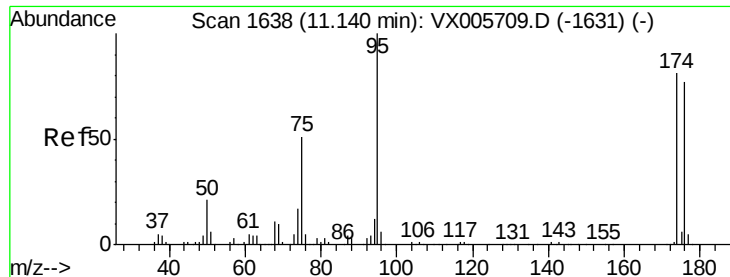
58 23.4 25.9 77.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 42.628 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

PB114370ZHE#04

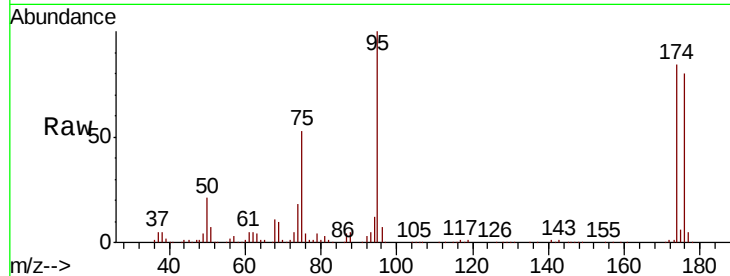
Tgt Ion: 95 Resp: 75899

Ion Ratio Lower Upper

95 100

174 81.3 0.0 184.4

176 77.8 0.0 177.4

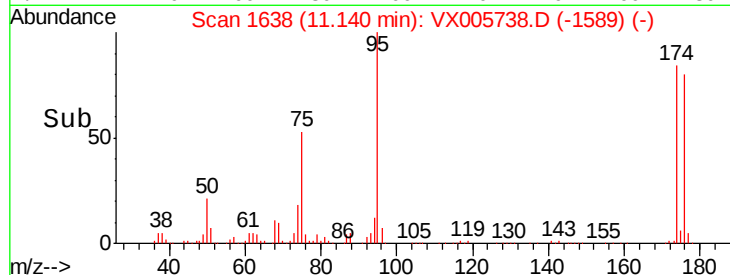


Abundance Ion 94.90 (94.60 to 95.60): VX005709.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005709.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005709.D (-1631) (-)

Time-->

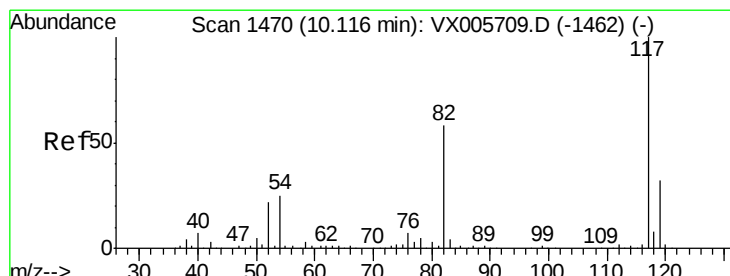


Abundance Ion 94.90 (94.60 to 95.60): VX005738.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005738.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005738.D (-1589) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

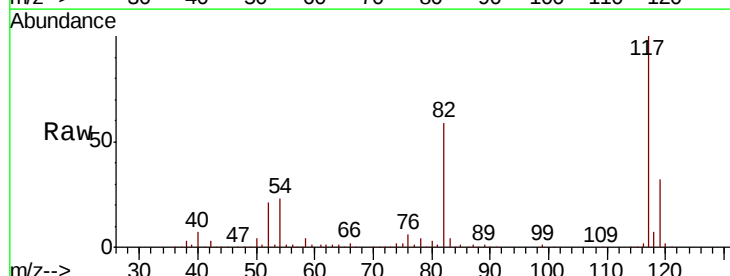
Tgt Ion: 117 Resp: 169512

Ion Ratio Lower Upper

117 100

82 59.3 44.1 66.1

119 31.6 26.2 39.2

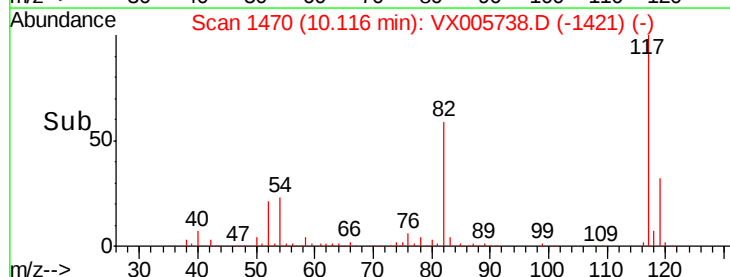


Abundance Ion 116.90 (116.60 to 117.60): VX005709.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005709.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005709.D (-1462) (-)

Time-->

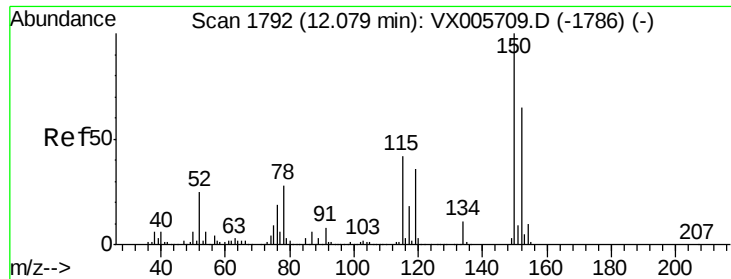


Abundance Ion 116.90 (116.60 to 117.60): VX005738.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005738.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005738.D (-1421) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

PB114370ZHE#04

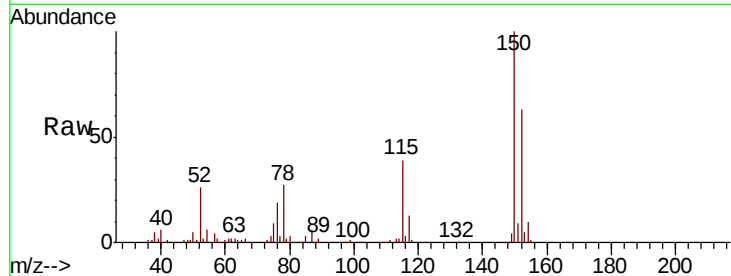
Tgt Ion:152 Resp: 74489

Ion Ratio Lower Upper

152 100

115 59.7 39.4 118.1

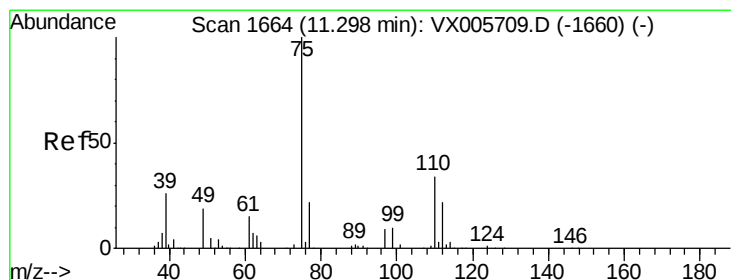
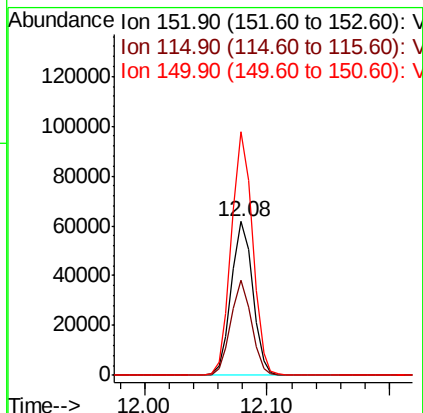
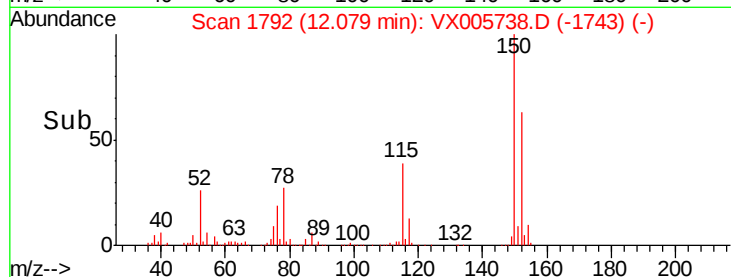
150 157.1 0.0 346.4



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: 22.246 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005738.D

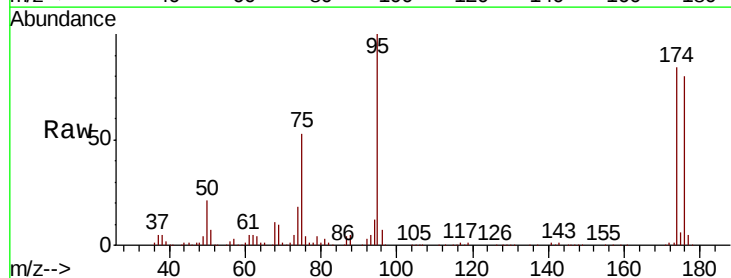
Acq: 01 Nov 2018 19:12

Tgt Ion: 75 Resp: 41271

Ion Ratio Lower Upper

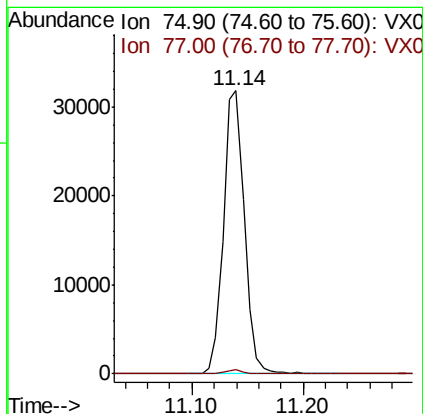
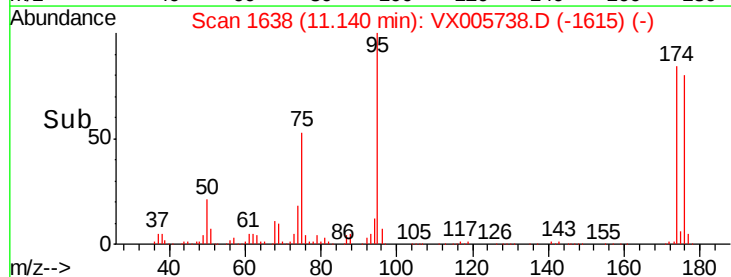
75 100

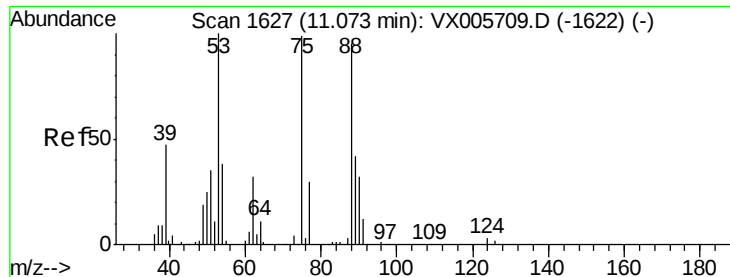
77 1.4 20.5 61.6#



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: 71.874 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

PB114370ZHE#04

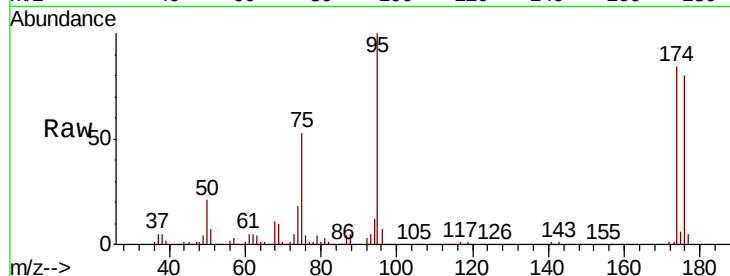
Tgt Ion: 75 Resp: 41271

Ion Ratio Lower Upper

75 100

53 0.1 80.2 120.2#

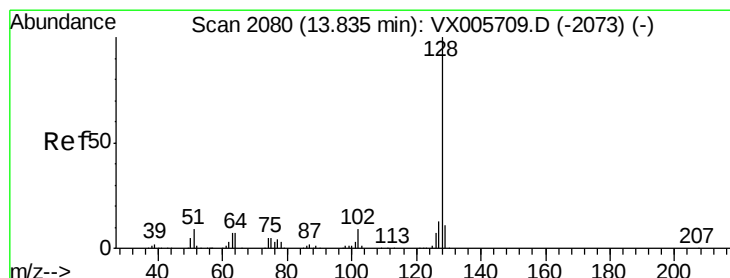
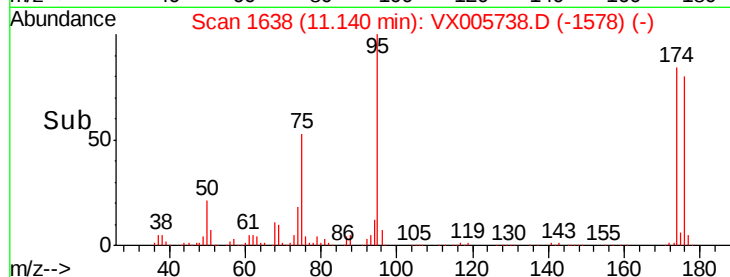
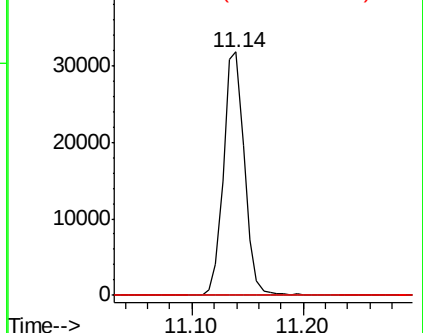
89 0.0 39.8 59.8#



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



#95

Naphthalene

Concen: 0.262 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005738.D

Acq: 01 Nov 2018 19:12

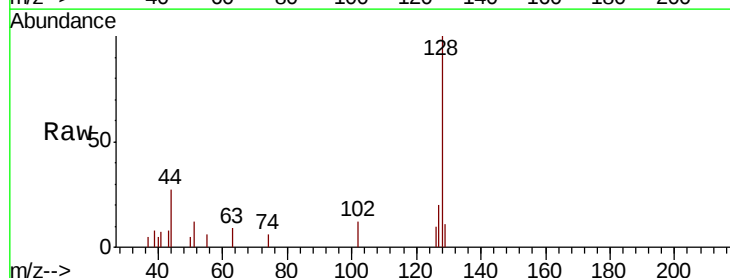
Tgt Ion: 128 Resp: 1359

Ion Ratio Lower Upper

128 100

127 19.0 10.4 15.6#

129 9.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

