

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020419\
 Data File : VX007355.D
 Acq On : 04 Feb 2019 13:23
 Operator : JC/SP
 Sample : PB116780TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116780TB

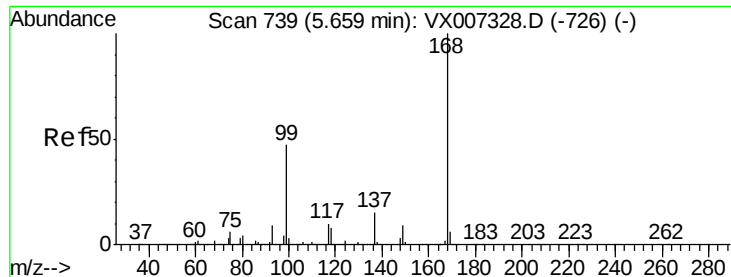
Quant Time: Feb 04 23:57:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	499550	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	778085	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	757067	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	362525	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	271498	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
35) Dibromofluoromethane	5.51	113	246541	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
50) Toluene-d8	8.71	98	956843	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	11.13	95	337154	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	337	0.232	ug/l #	43
5) Bromomethane	1.65	94	540	Below Cal		83
11) Tert butyl alcohol	3.03	59	3459	3.152	ug/l #	89
13) Acrolein	2.31	56	212	0.412	ug/l #	45
15) Acrylonitrile	3.16	53	611	0.225	ug/l #	54
16) Acetone	2.45	43	34626	14.256	ug/l	99
17) Carbon Disulfide	2.57	76	1246	2.217	ug/l #	60
18) Methyl Acetate	2.78	43	3411	1.126	ug/l #	87
20) Methylene Chloride	2.86	84	53511	10.475	ug/l	96
25) 2-Butanone	4.70	43	7590	2.196	ug/l #	85
29) Tetrahydrofuran	5.15	42	2795	1.286	ug/l #	81
36) 1,1-Dichloropropene	5.66	75	33278	4.767	ug/l #	49
38) Carbon Tetrachloride	5.67	117	45392	6.702	ug/l #	17
43) Isopropyl Acetate	6.46	43	32299	2.965	ug/l	95
48) Methyl methacrylate	7.68	41	17376	3.189	ug/l #	13
49) 1,4-Dioxane	7.75	88	120	7.841	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	173226	24.157	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	84736	11.303	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	18996	2.160	ug/l #	46
59) 2-Hexanone	9.54	43	254655	45.636	ug/l #	51
71) Bromoform	10.97	173	134	4.055	ug/l #	29
74) N-amyl acetate	10.69	43	25070	2.631	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	162655	23.067	ug/l #	32
80) 1,3,5-Trimethylbenzene	11.51	105	5172	0.257	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.13	75	162655	69.495	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

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MSVOA_X

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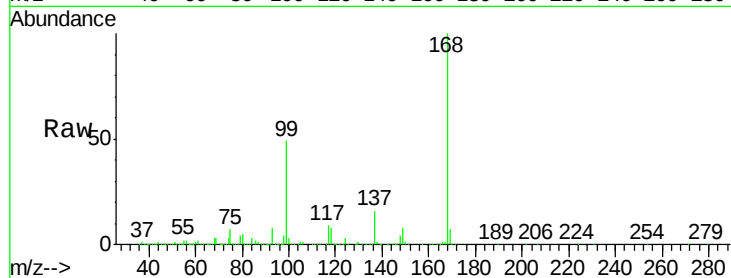
PB116780TB

Tot Ion:168 Resp: 499550

Ion Ratio Lower Upper

168 100

99 49.3 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

150000

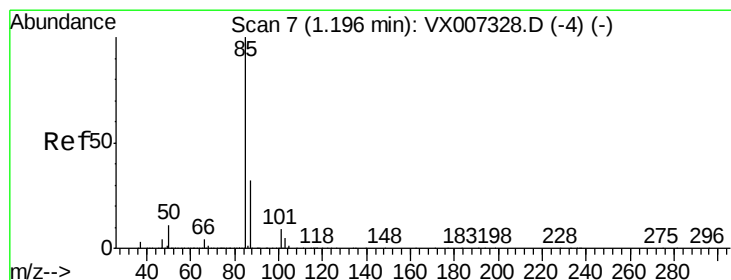
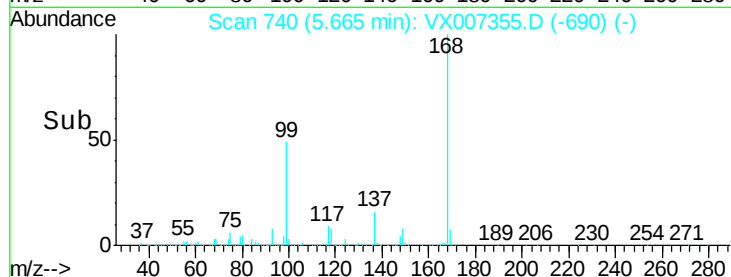
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.232 ug/l

RT: 1.21 min Scan# 9

Delta R.T. 0.01 min

Lab File: VX007355.D

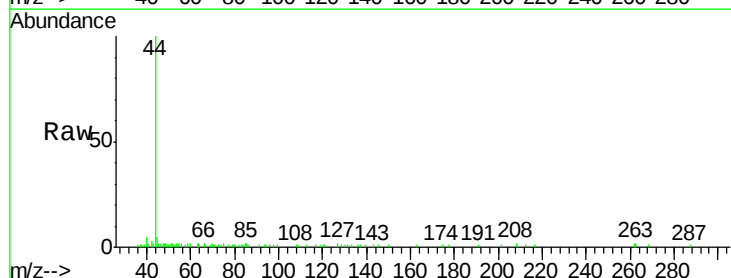
Acq: 04 Feb 2019 13:23

Tgt Ion: 85 Resp: 337

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.21

300

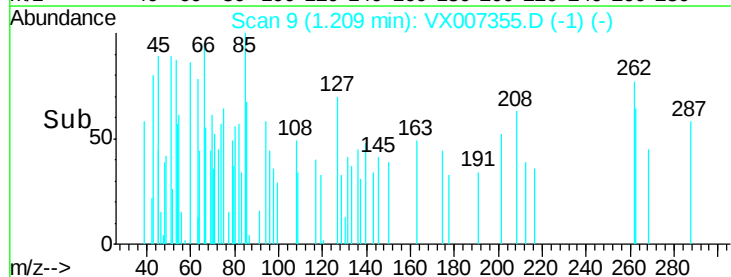
200

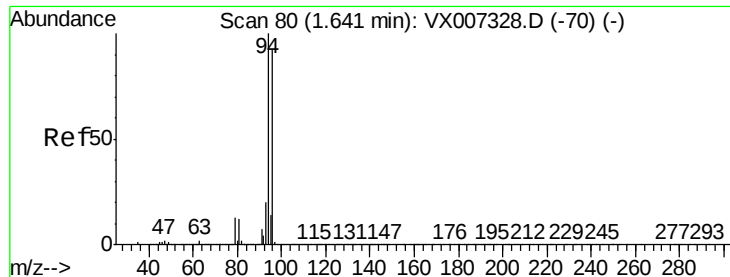
100

0

Time-->

1.16 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

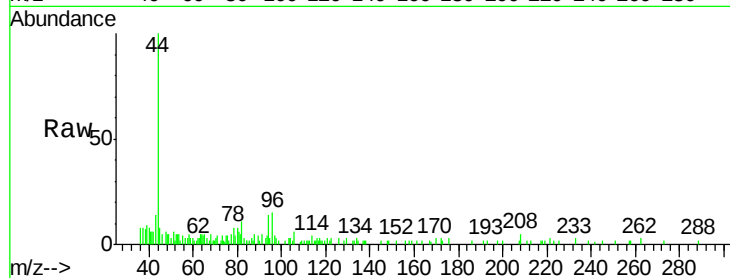
PB116780TB

Tot Ion: 94 Resp: 540

Ion Ratio Lower Upper

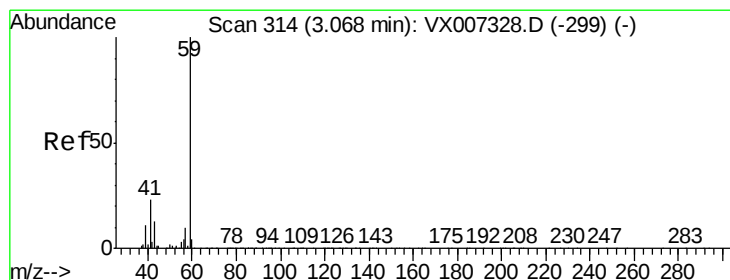
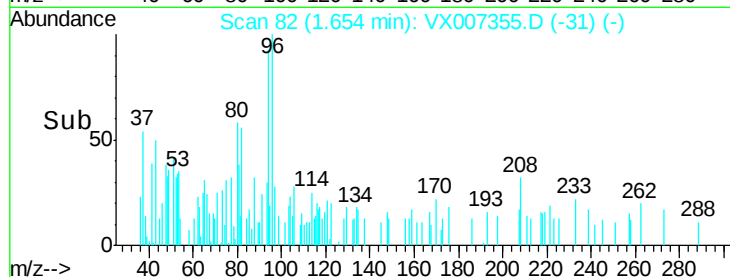
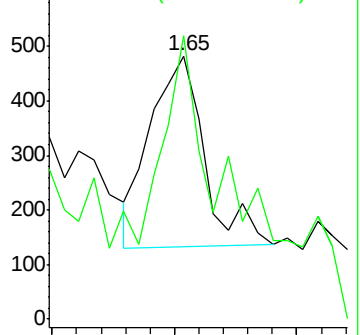
94 100

96 108.4 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 3.152 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.04 min

Lab File: VX007355.D

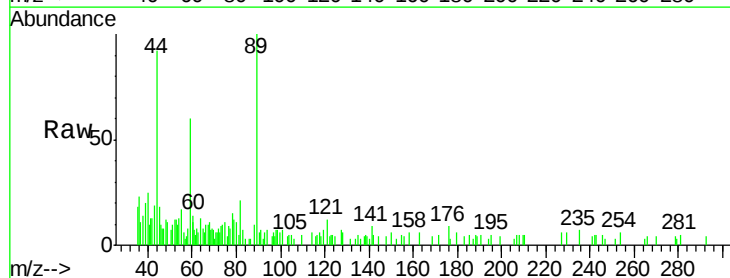
Acq: 04 Feb 2019 13:23

Tgt Ion: 59 Resp: 3459

Ion Ratio Lower Upper

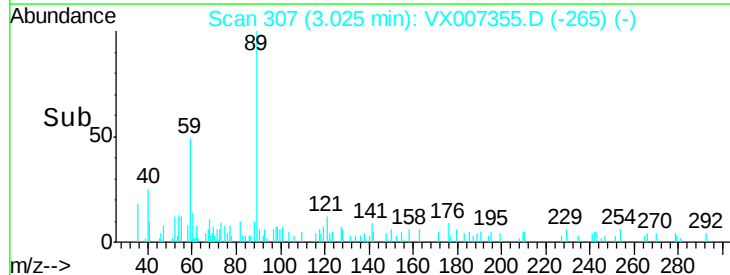
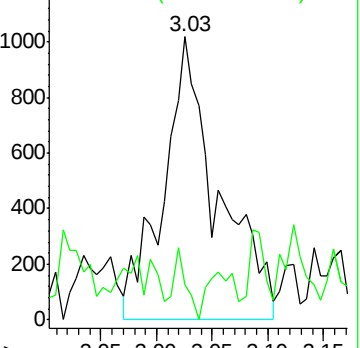
59 100

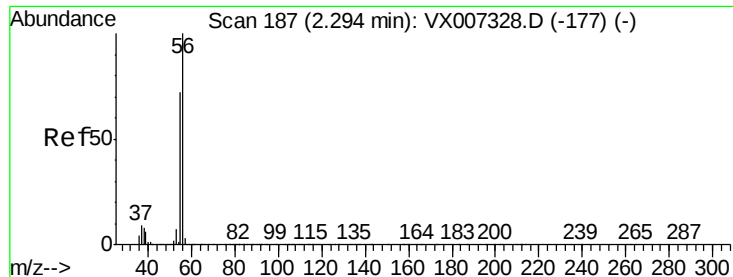
57 5.9 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

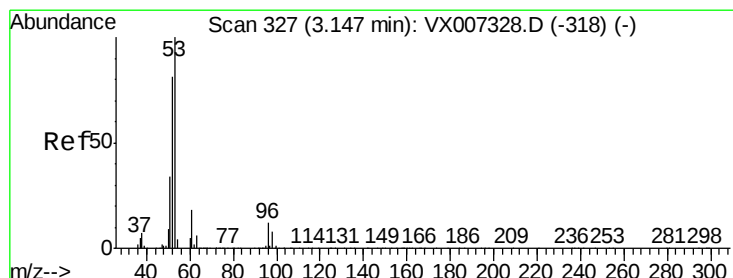
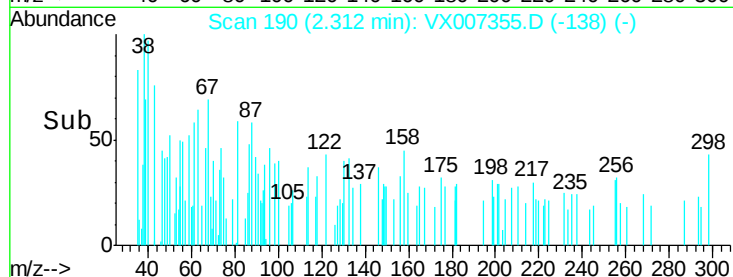
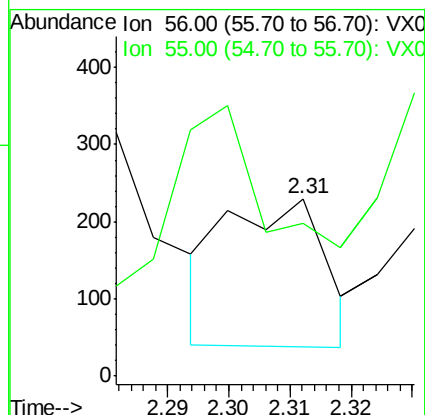
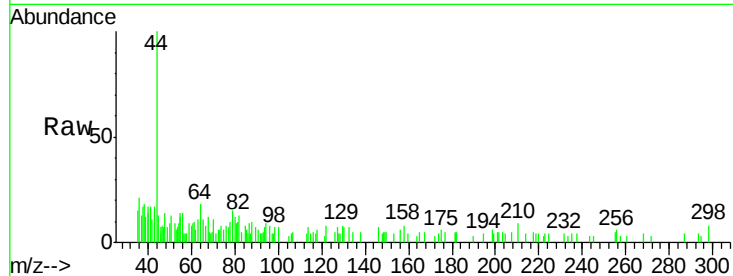




#13
Acrolein
Concen: 0.412 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX007355.D
Acq: 04 Feb 2019 13:23

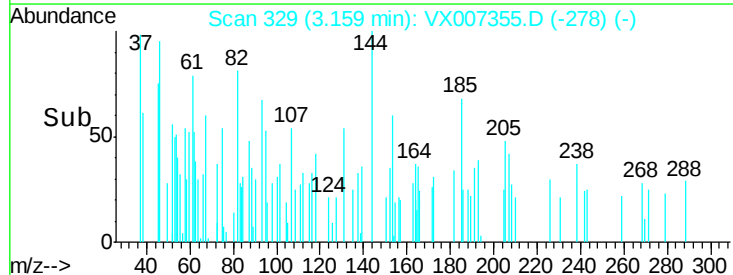
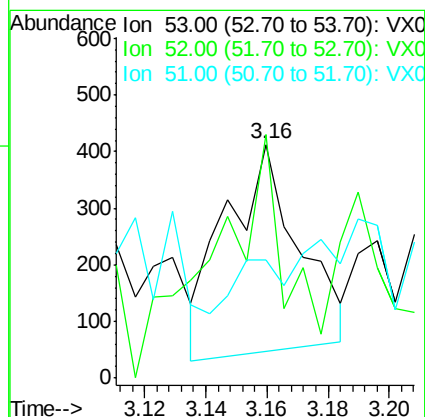
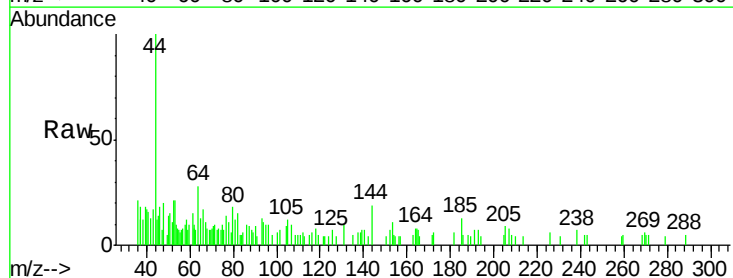
Instrument :
MSVOA_X
ClientSampleId :
PB116780TB

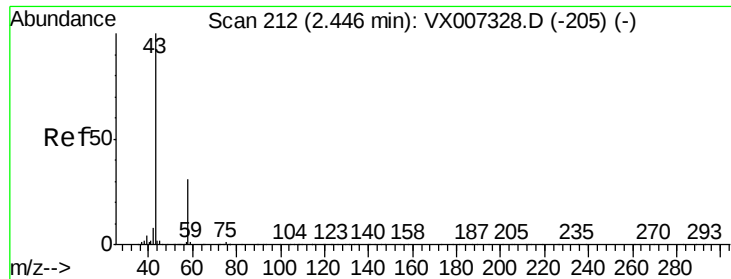
Tot Ion: 56 Resp: 212
Ion Ratio Lower Upper
56 100
55 117.0 56.9 85.3#



#15
Acrylonitrile
Concen: 0.225 ug/l
RT: 3.16 min Scan# 329
Delta R.T. 0.01 min
Lab File: VX007355.D
Acq: 04 Feb 2019 13:23

Tgt Ion: 53 Resp: 611
Ion Ratio Lower Upper
53 100
52 119.0 66.4 99.6#
51 0.0 28.4 42.6#





#16

Acetone

Concen: 14.256 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

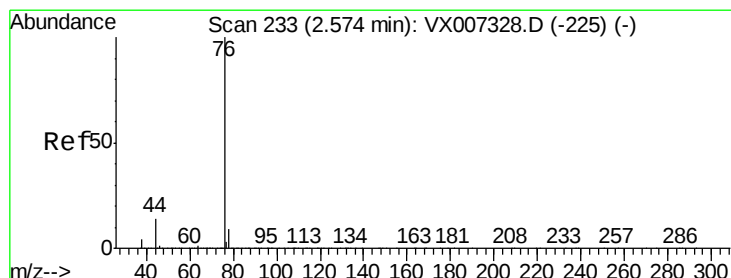
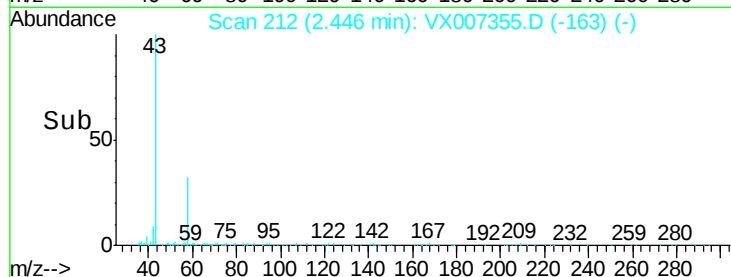
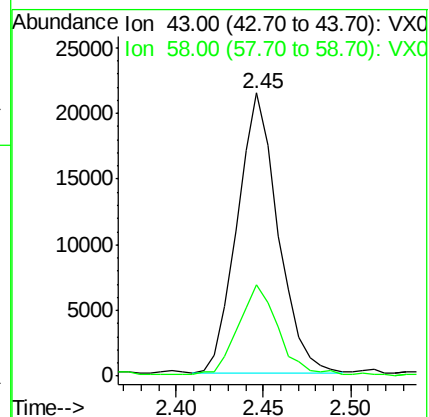
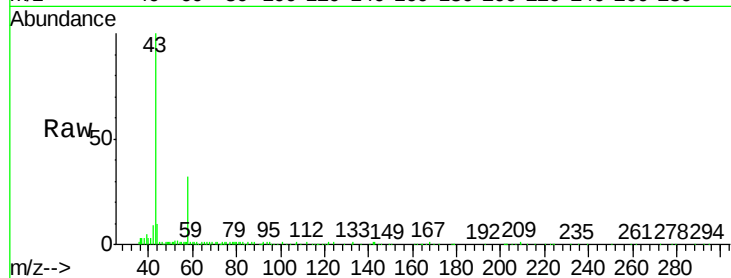
PB116780TB

Tot Ion: 43 Resp: 34626

Ion Ratio Lower Upper

43 100

58 31.9 24.9 37.3



#17

Carbon Disulfide

Concen: 2.217 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX007355.D

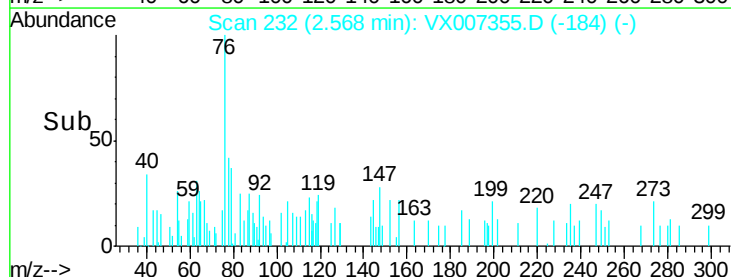
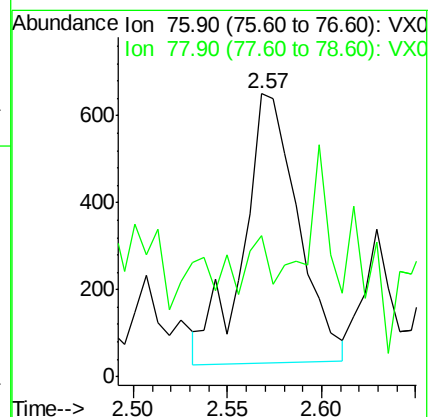
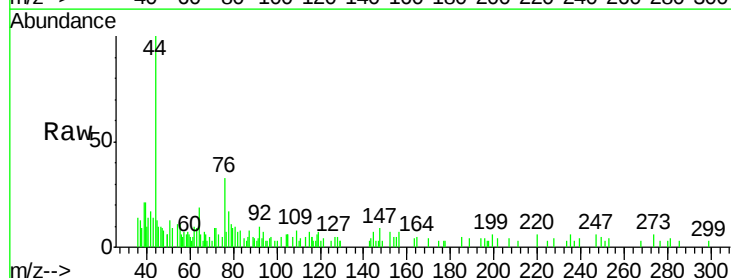
Acq: 04 Feb 2019 13:23

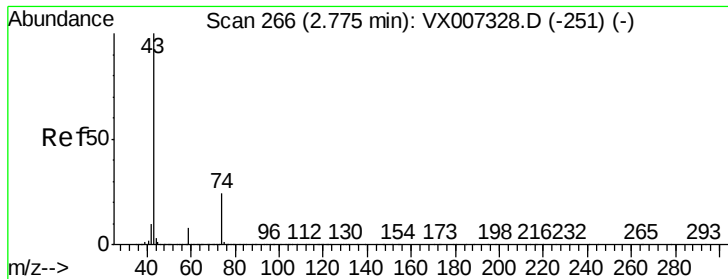
Tgt Ion: 76 Resp: 1246

Ion Ratio Lower Upper

76 100

78 23.4 7.1 10.7#

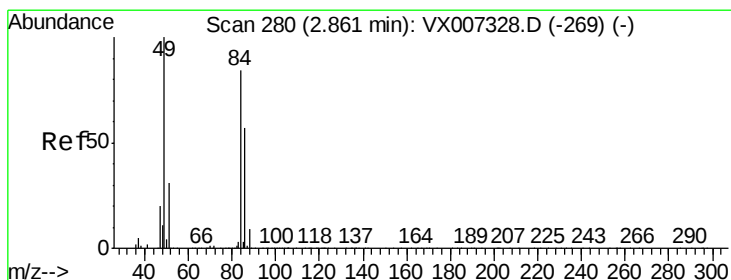
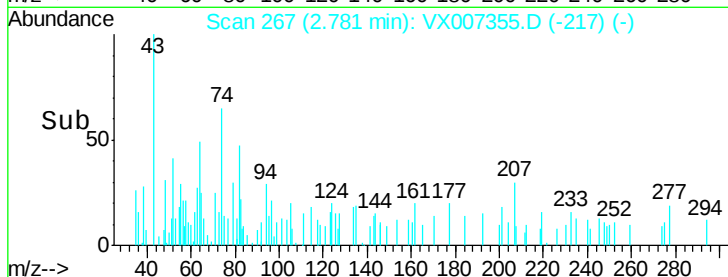
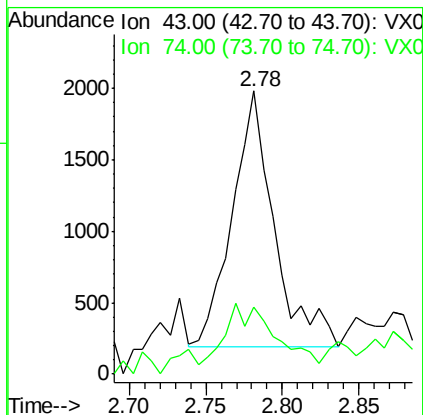
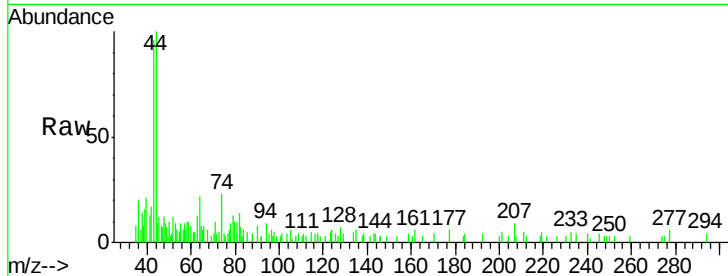




#18
Methyl Acetate
Concen: 1.126 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007355.D
Acq: 04 Feb 2019 13:23

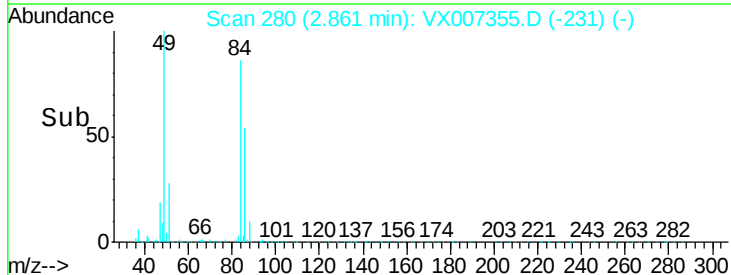
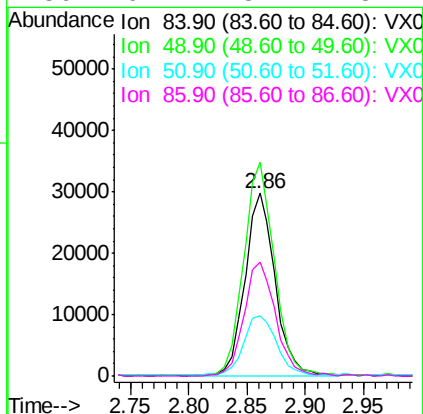
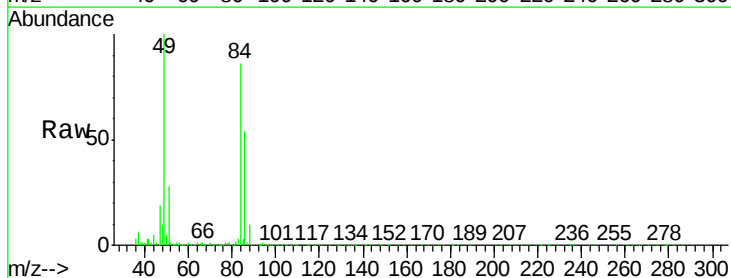
Instrument :
MSVOA_X
ClientSampled :
PB116780TB

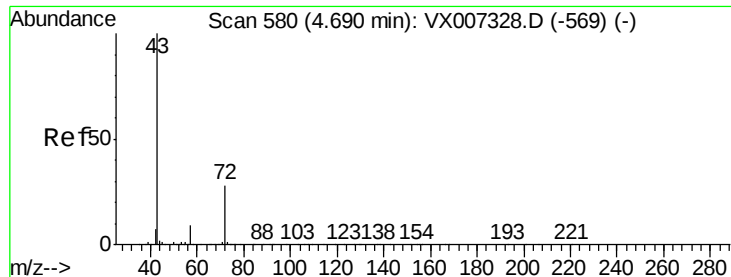
Tot Ion: 43 Resp: 3411
Ion Ratio Lower Upper
43 100
74 30.7 19.4 29.2#



#20
Methylene Chloride
Concen: 10.475 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007355.D
Acq: 04 Feb 2019 13:23

Tgt Ion: 84 Resp: 53511
Ion Ratio Lower Upper
84 100
49 116.2 94.8 142.2
51 32.0 29.8 44.8
86 62.7 54.1 81.1





#25

2-Butanone

Concen: 2.196 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

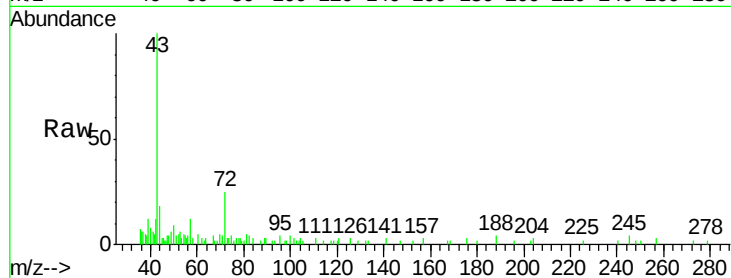
PB116780TB

Tot Ion: 43 Resp: 7590

Ion Ratio Lower Upper

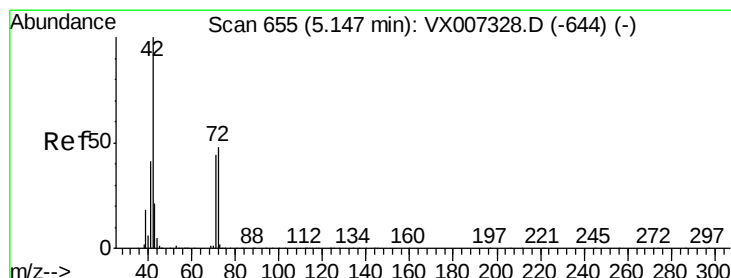
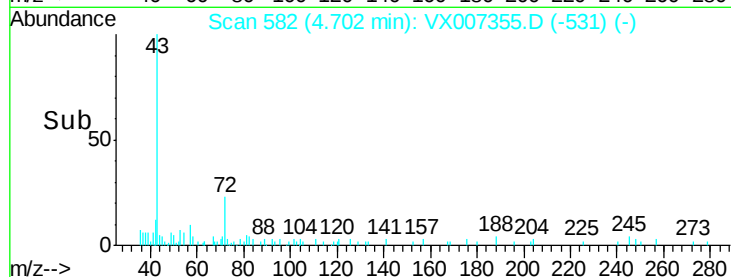
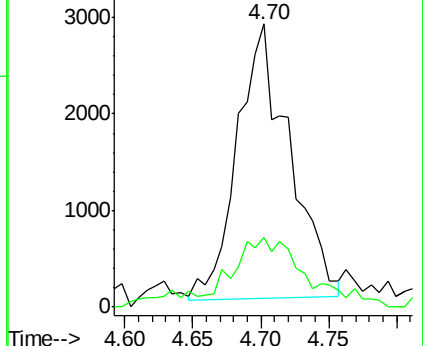
43 100

72 19.9 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.286 ug/l

RT: 5.15 min Scan# 655

Delta R.T. -0.00 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

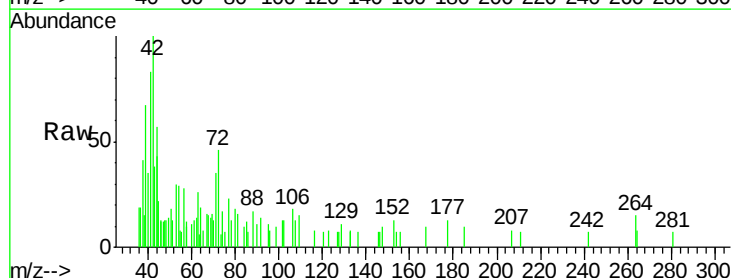
Tgt Ion: 42 Resp: 2795

Ion Ratio Lower Upper

42 100

72 58.8 37.6 56.4#

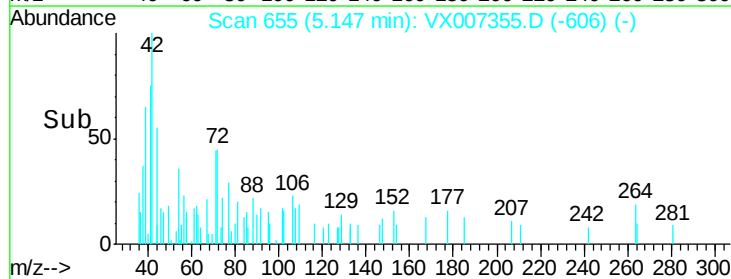
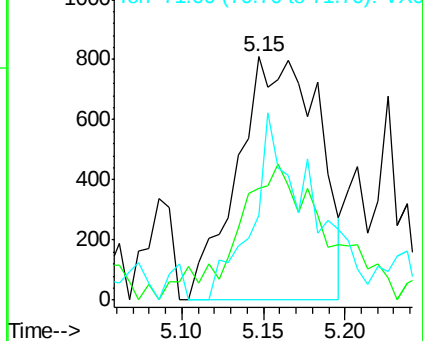
71 55.7 34.6 51.8#

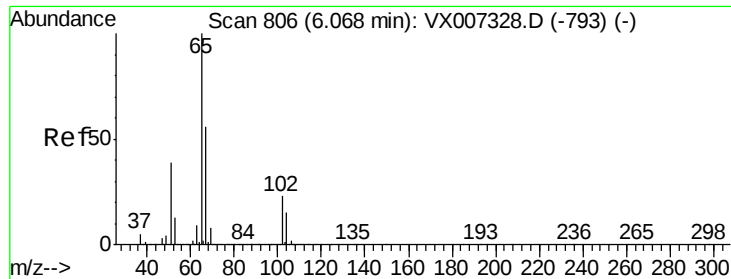


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.204 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

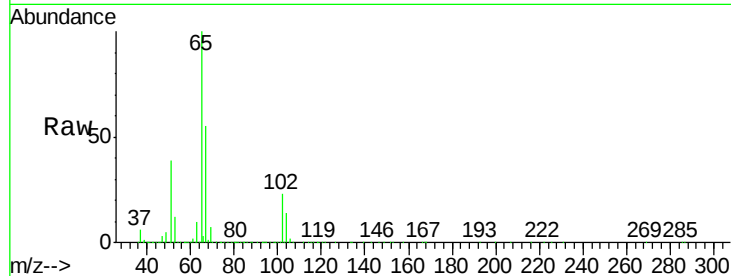
PB116780TB

Tot Ion: 65 Resp: 271498

Ion Ratio Lower Upper

65 100

67 53.6 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

120000

100000

80000

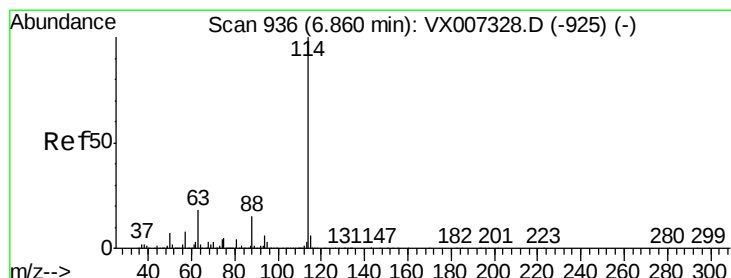
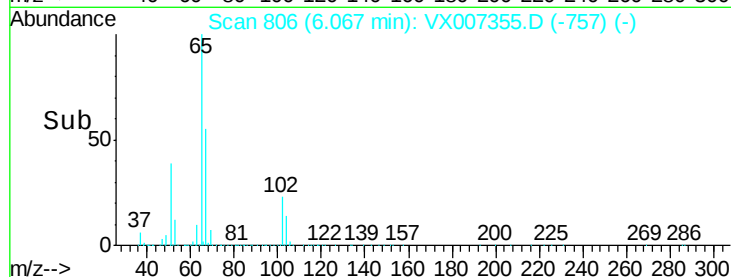
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

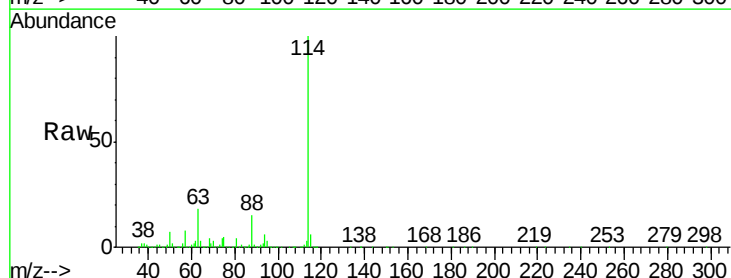
Tgt Ion: 114 Resp: 778085

Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.6

88 14.7 0.0 29.6



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

6.86

400000

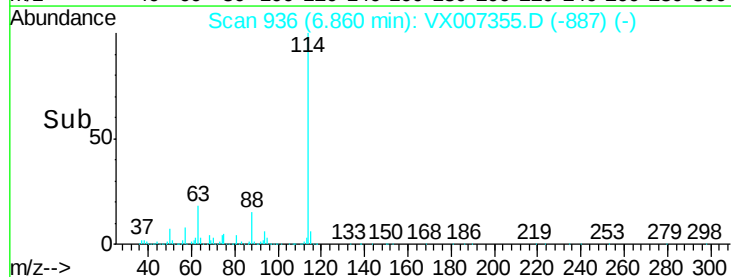
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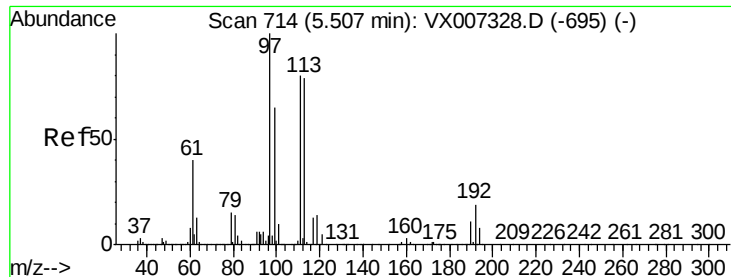
200000

100000

0

Time--> 6.70 6.80 6.90 7.00

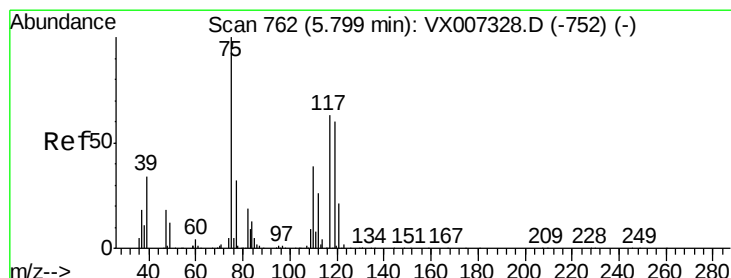
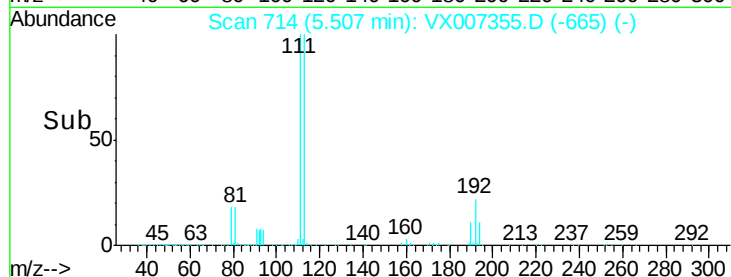
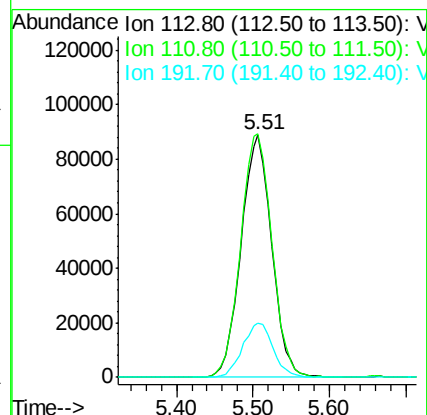
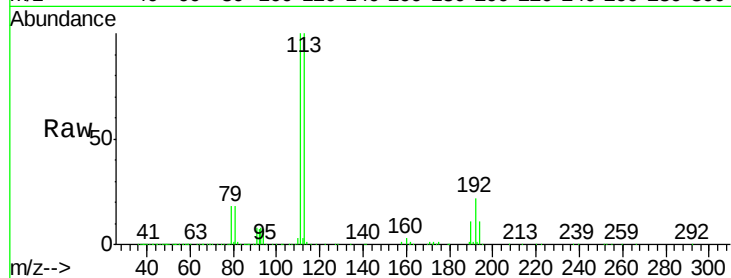




#35
Dibromofluoromethane
Concen: 48.697 ug/l
RT: 5.51 min Scan# 714
Delta R.T. -0.00 min
Lab File: VX007355.D
Acq: 04 Feb 2019 13:23

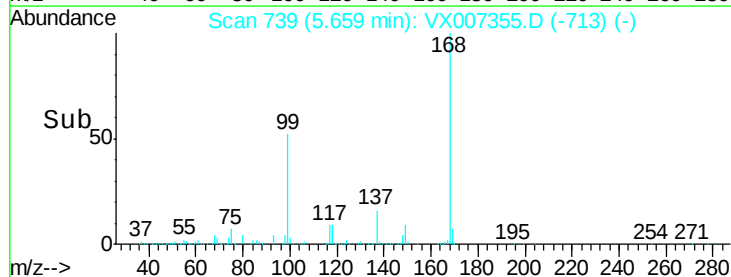
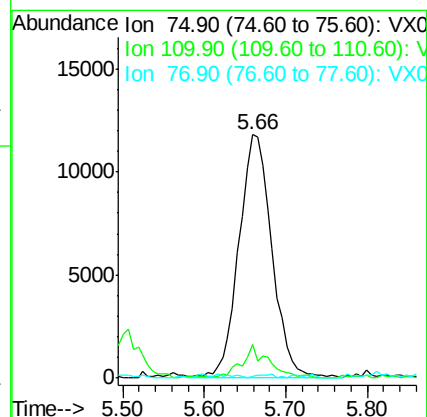
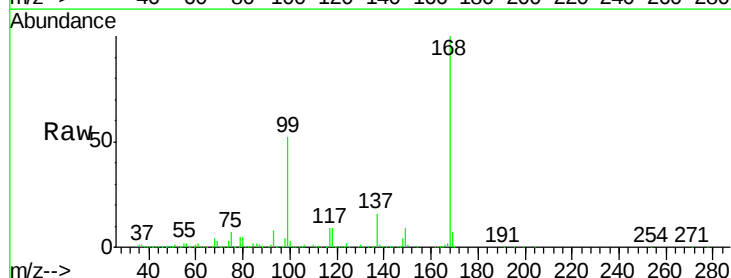
Instrument :
MSVOA_X
ClientSampleId :
PB116780TB

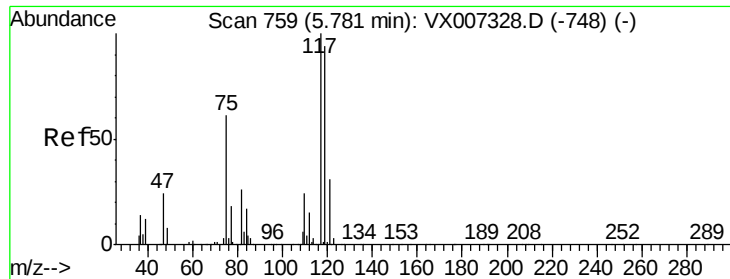
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.8	122.8
192	22.3	18.5	27.7



#36
1,1-Dichloropropene
Concen: 4.767 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.14 min
Lab File: VX007355.D
Acq: 04 Feb 2019 13:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	20.0	59.9#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.702 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

PB116780TB

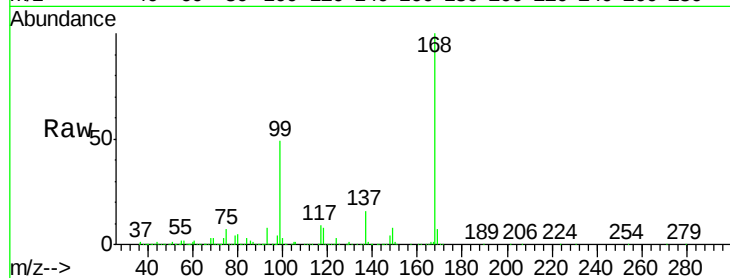
Tot Ion:117 Resp: 45392

Ion Ratio Lower Upper

117 100

119 5.3 75.3 112.9#

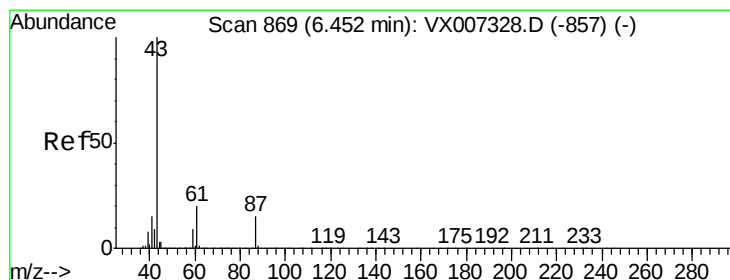
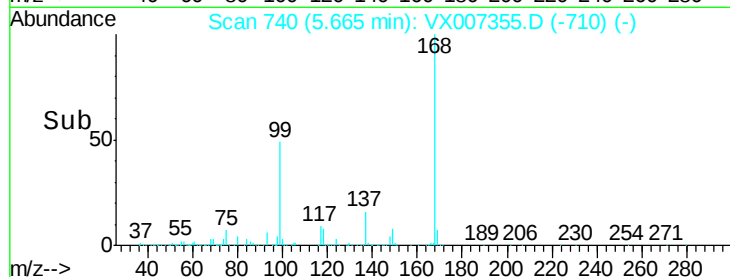
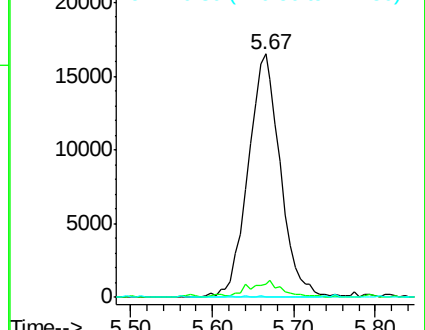
121 1.1 25.0 37.4#



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: 2.965 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

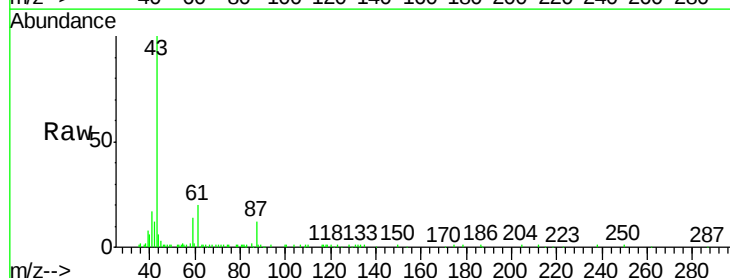
Tgt Ion: 43 Resp: 32299

Ion Ratio Lower Upper

43 100

61 23.4 16.1 24.1

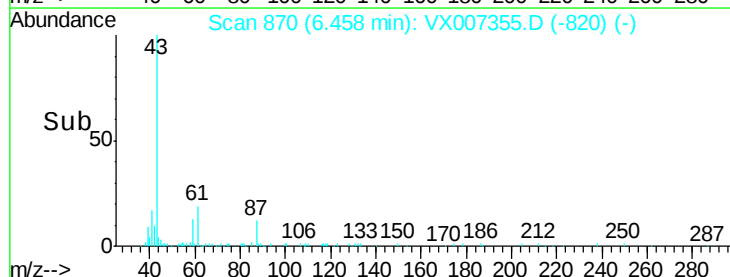
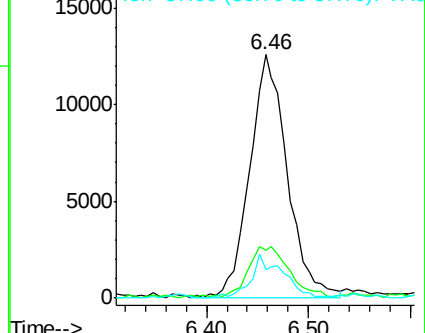
87 15.5 11.5 17.3

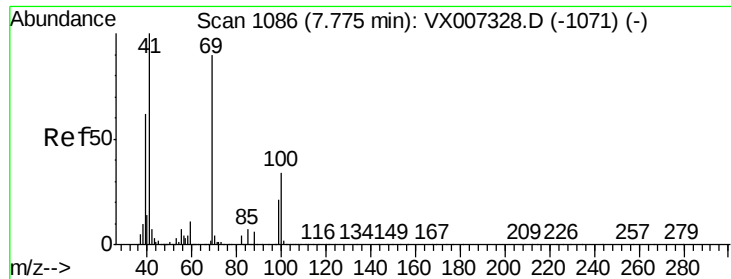


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 3.189 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

PB116780TB

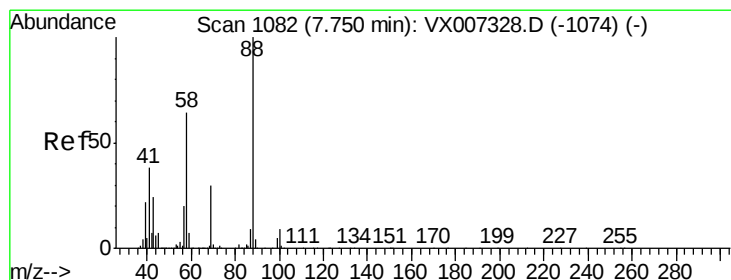
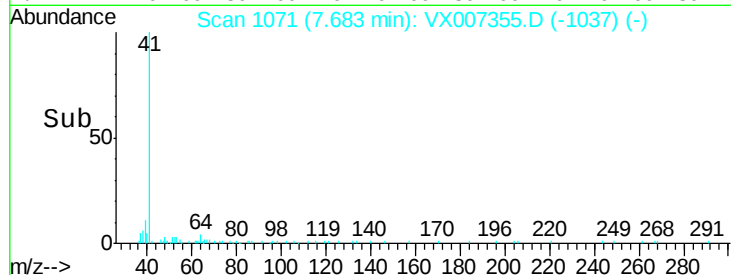
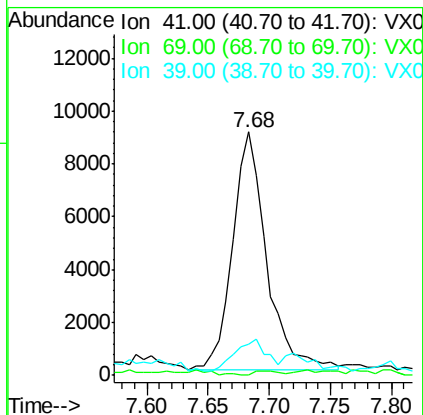
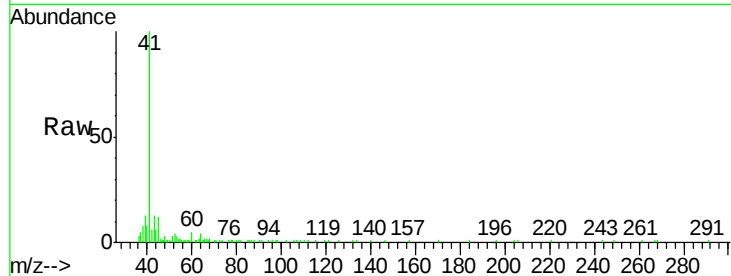
Tot Ion: 41 Resp: 17376

Ion Ratio Lower Upper

41 100

69 1.4 70.2 105.4#

39 0.0 47.4 71.0#



#49

1,4-Dioxane

Concen: 7.841 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

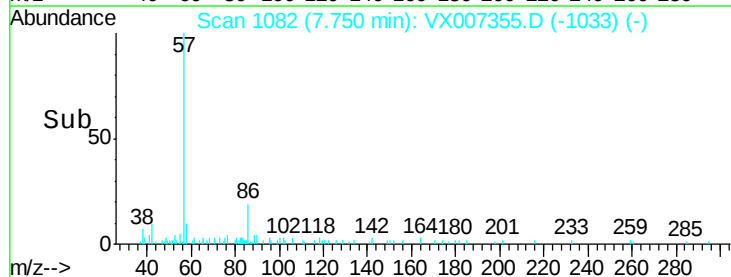
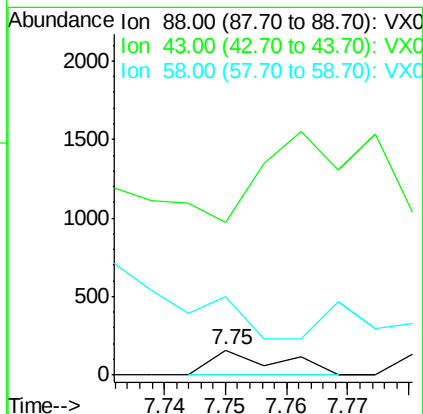
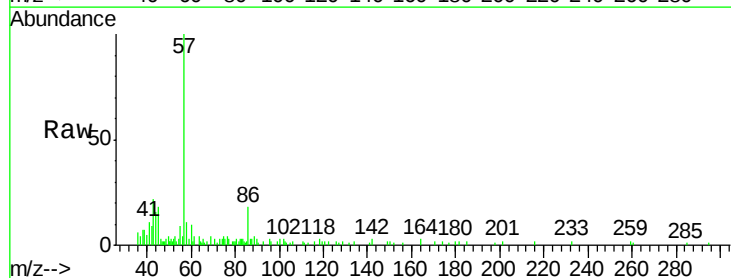
Tgt Ion: 88 Resp: 120

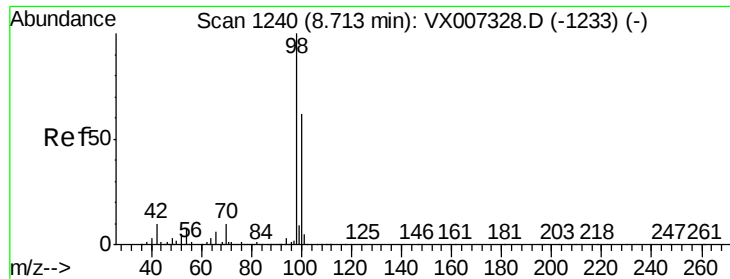
Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 545.0 53.0 79.4#





#50

Toluene-d8

Concen: 50.940 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

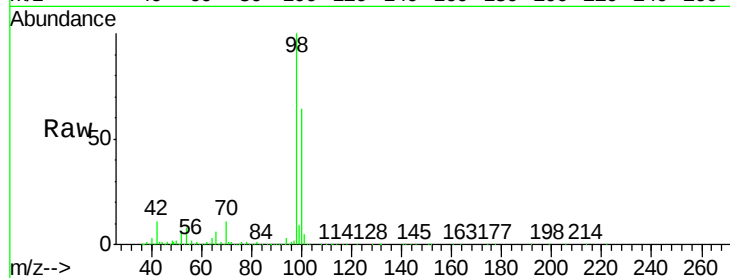
PB116780TB

Tot Ion: 98 Resp: 956843

Ion Ratio Lower Upper

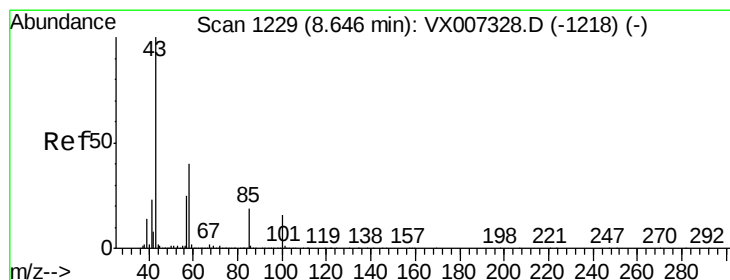
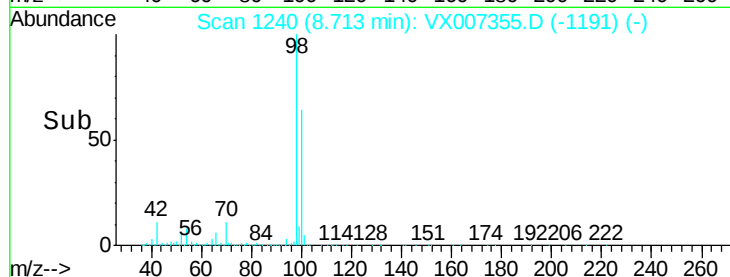
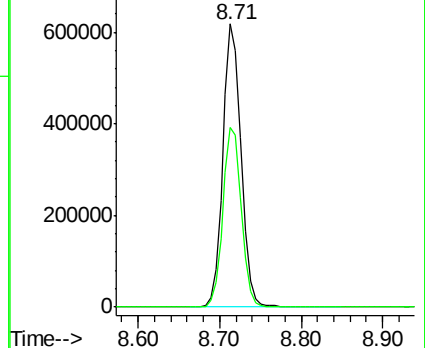
98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 24.157 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007355.D

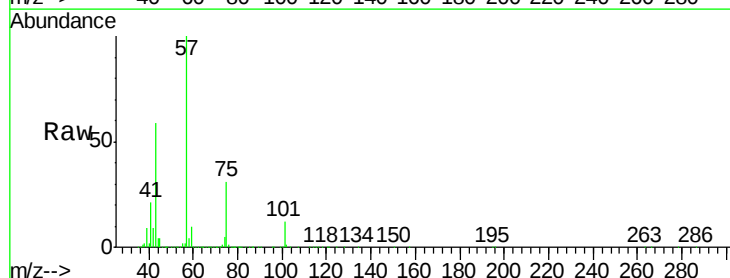
Acq: 04 Feb 2019 13:23

Tgt Ion: 43 Resp: 173226

Ion Ratio Lower Upper

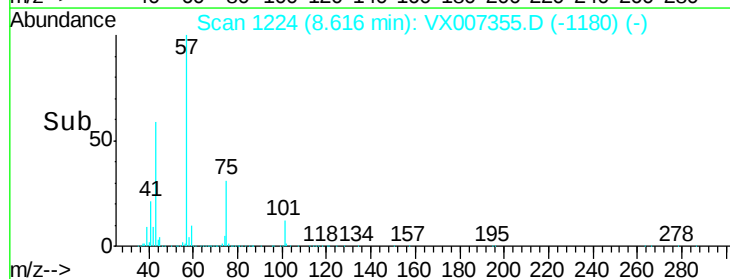
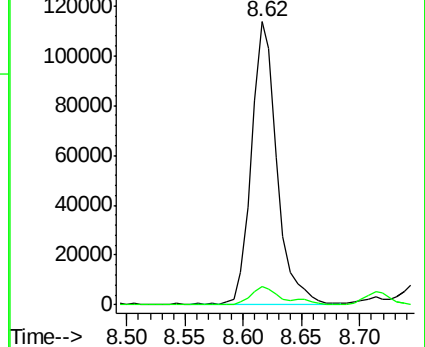
43 100

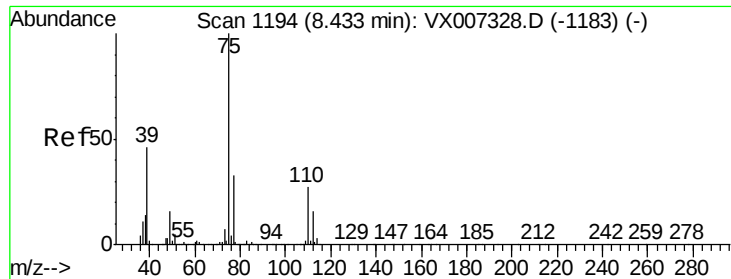
58 6.9 31.2 46.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 11.303 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

PB116780TB

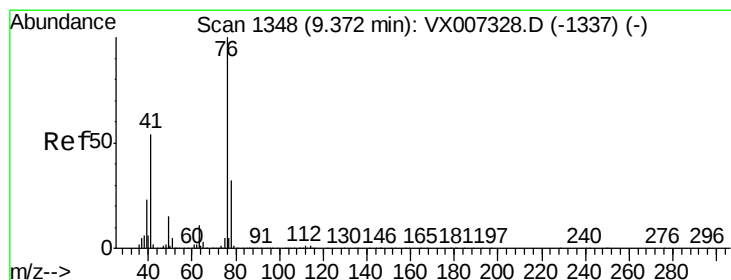
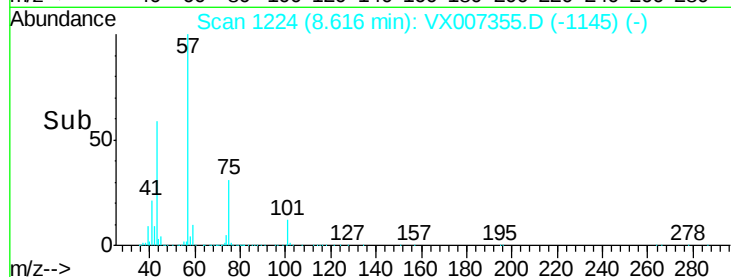
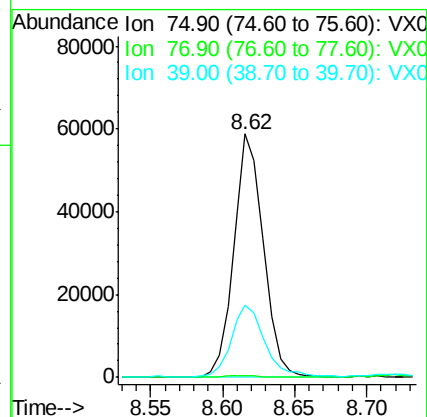
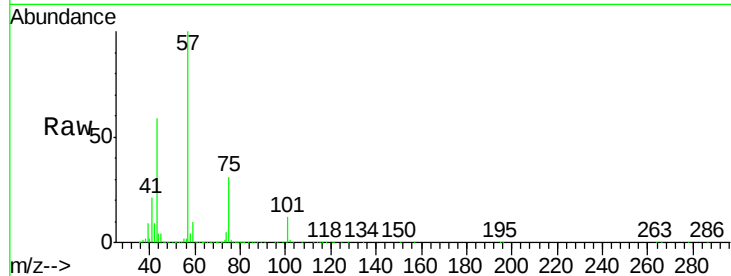
Tot Ion: 75 Resp: 84736

Ion Ratio Lower Upper

75 100

77 0.5 26.2 39.4#

39 29.5 37.1 55.7#



#57

1,3-Dichloropropane

Concen: 2.160 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007355.D

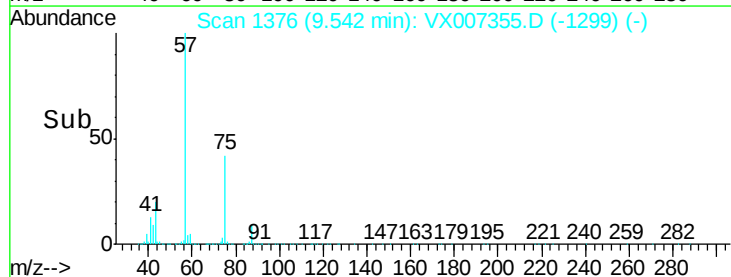
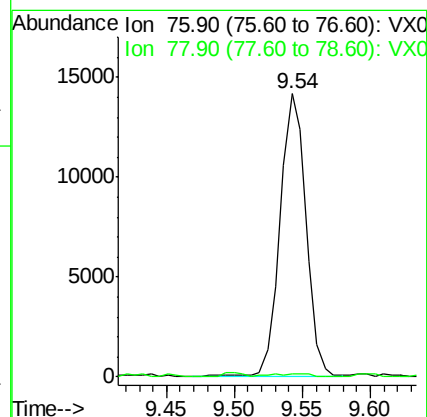
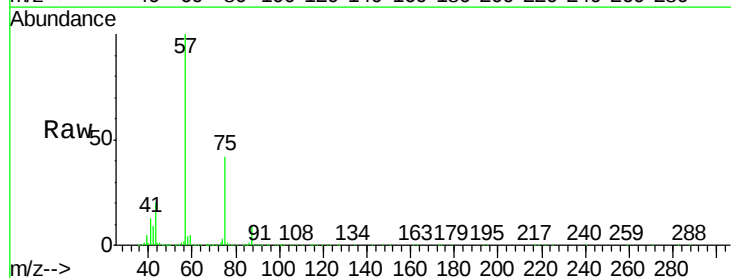
Acq: 04 Feb 2019 13:23

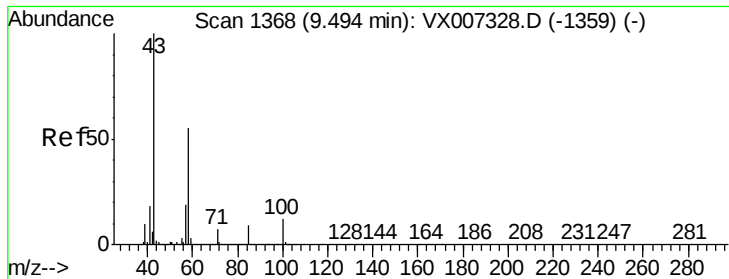
Tgt Ion: 76 Resp: 18996

Ion Ratio Lower Upper

76 100

78 1.8 25.8 38.8#

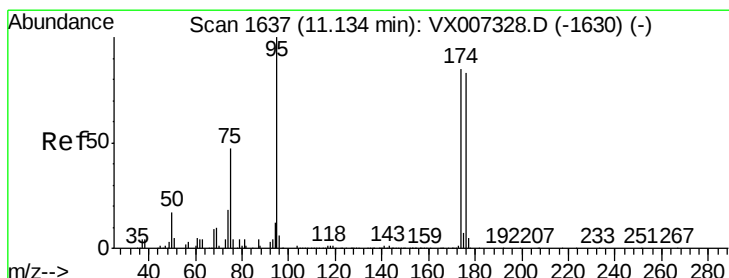
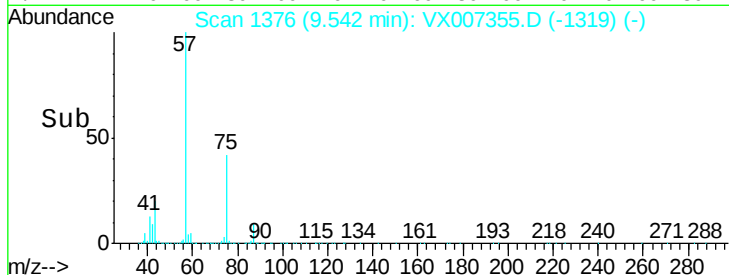
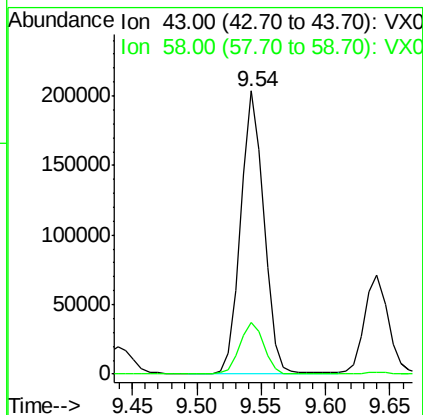
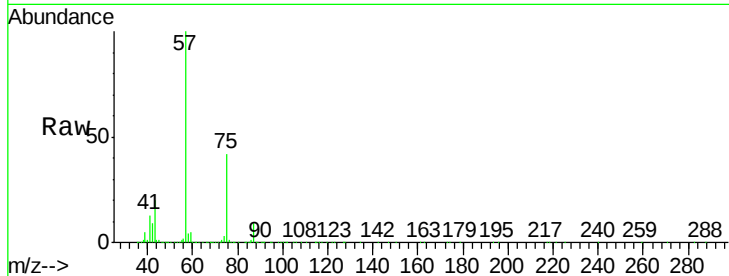




#59
2-Hexanone
Concen: 45.636 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007355.D
Acq: 04 Feb 2019 13:23

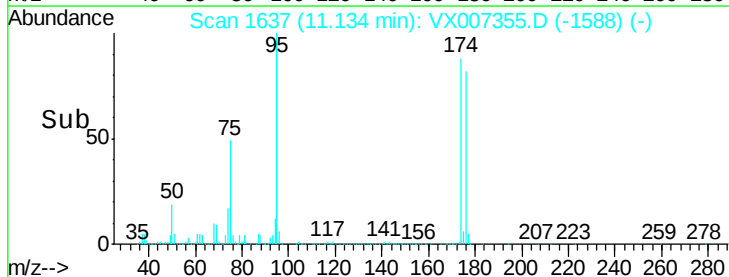
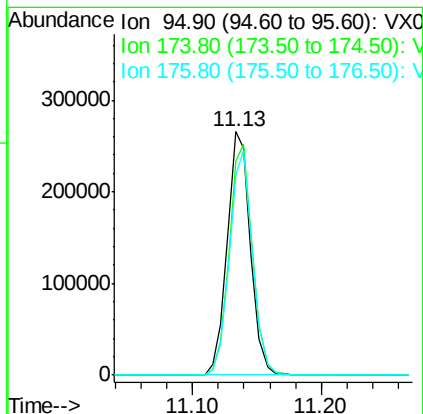
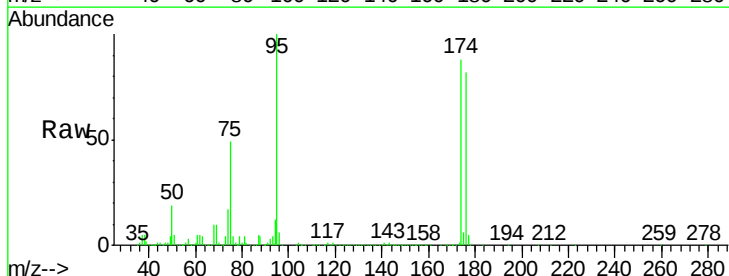
Instrument :
MSVOA_X
ClientSampleId :
PB116780TB

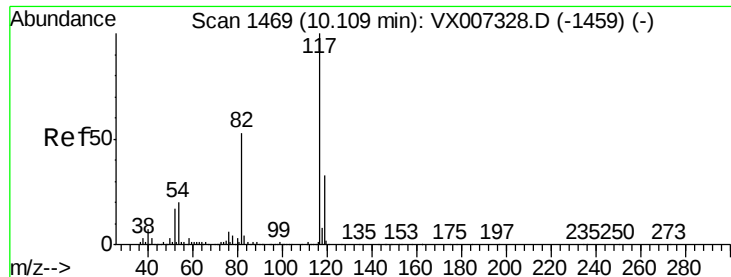
Tot Ion: 43 Resp: 254655
Ion Ratio Lower Upper
43 100
58 19.2 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 49.163 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007355.D
Acq: 04 Feb 2019 13:23

Tgt Ion: 95 Resp: 337154
Ion Ratio Lower Upper
95 100
174 95.0 0.0 189.2
176 91.3 0.0 186.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

PB116780TB

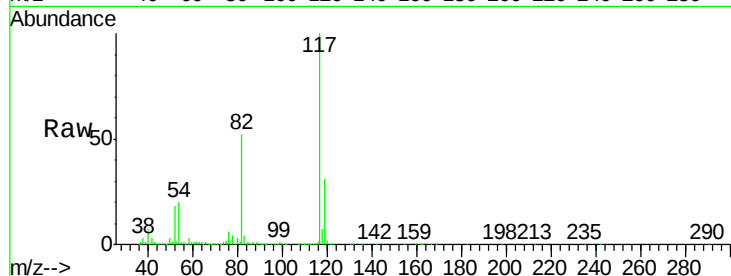
Tot Ion:117 Resp: 757067

Ion Ratio Lower Upper

117 100

82 51.9 42.1 63.1

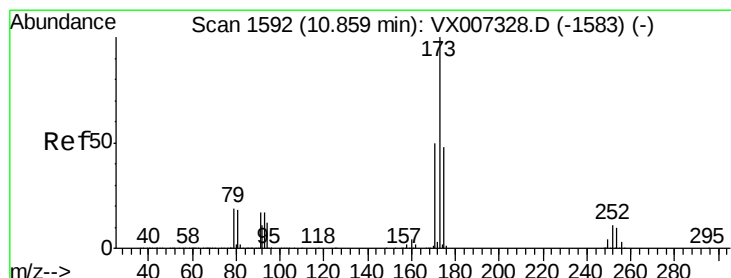
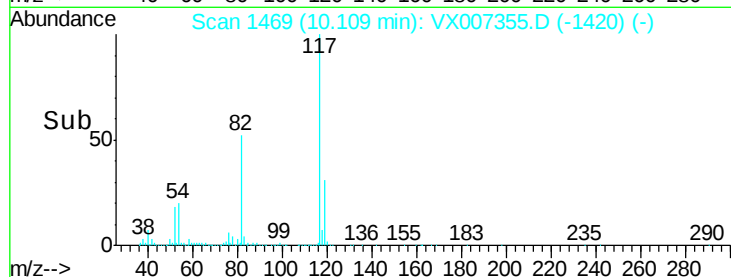
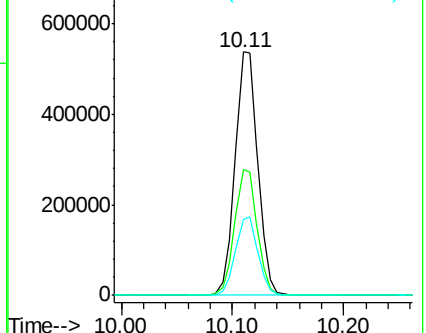
119 31.3 26.5 39.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 4.055 ug/l

RT: 10.97 min Scan# 1610

Delta R.T. 0.11 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

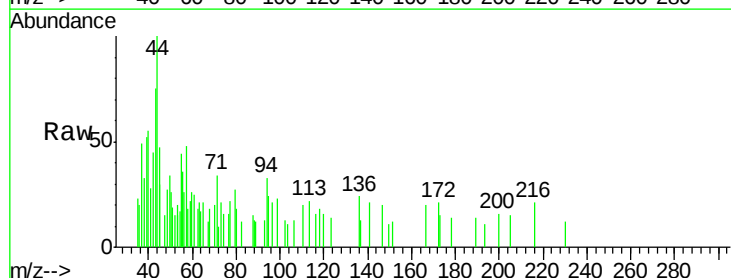
Tgt Ion:173 Resp: 134

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

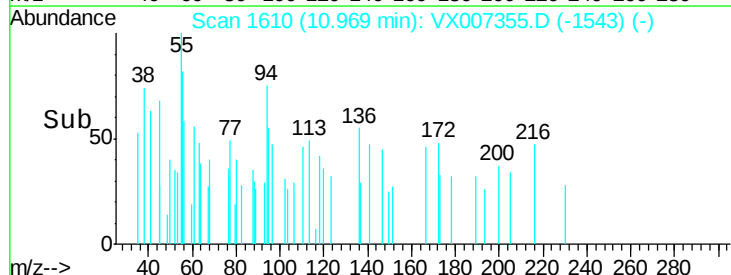
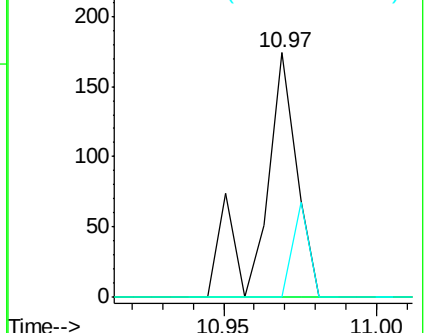
254 18.7 0.2 0.2#

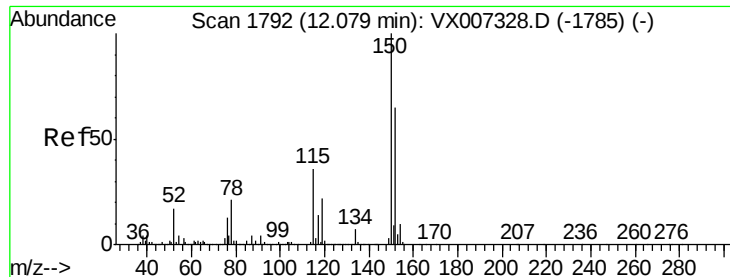


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

PB116780TB

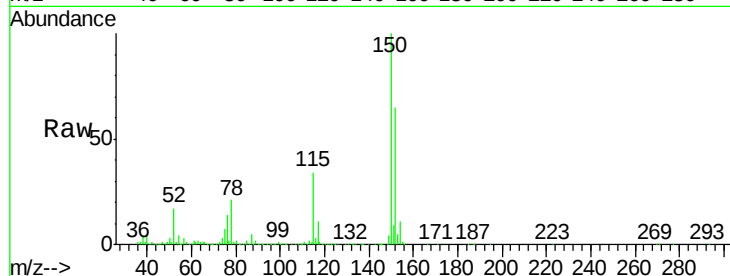
Tot Ion:152 Resp: 362525

Ion Ratio Lower Upper

152 100

115 54.2 38.0 114.0

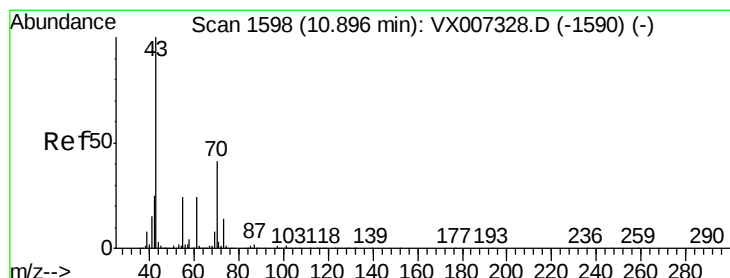
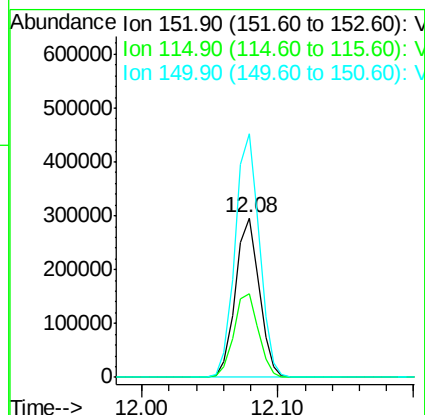
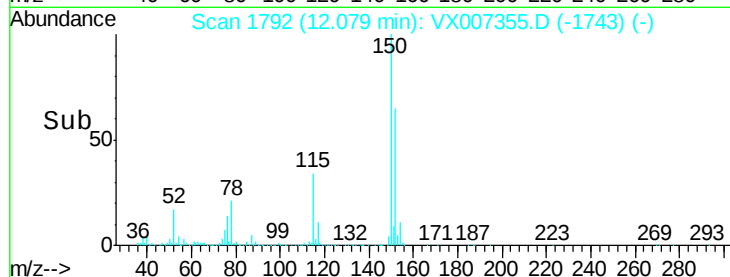
150 154.8 0.0 346.4



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



#74

N-ethyl acetate

Concen: 2.631 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Tgt Ion: 43 Resp: 25070

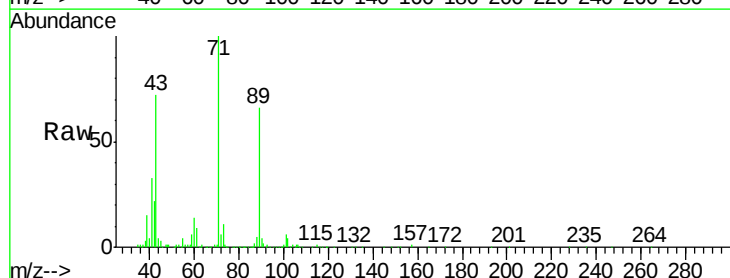
Ion Ratio Lower Upper

43 100

70 1.9 33.8 50.6#

55 6.6 19.5 29.3#

61 12.4 19.4 29.2#

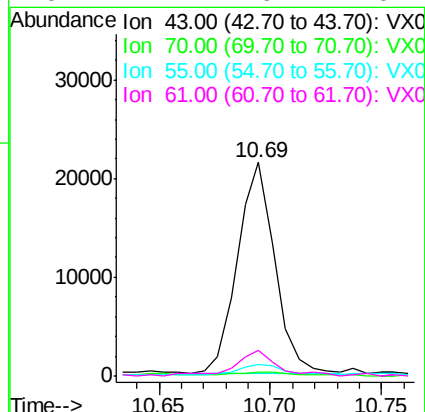
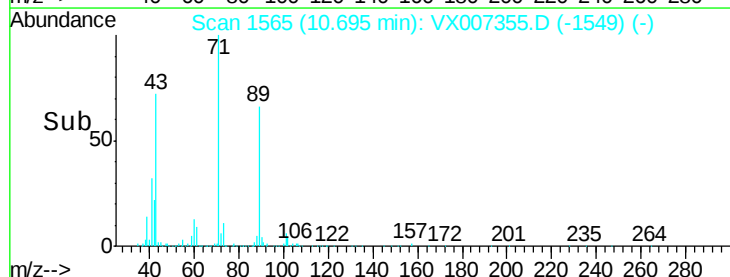


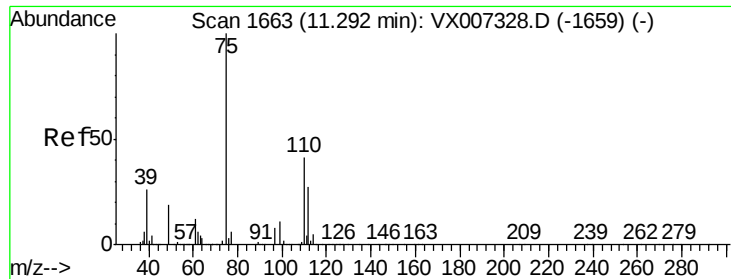
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

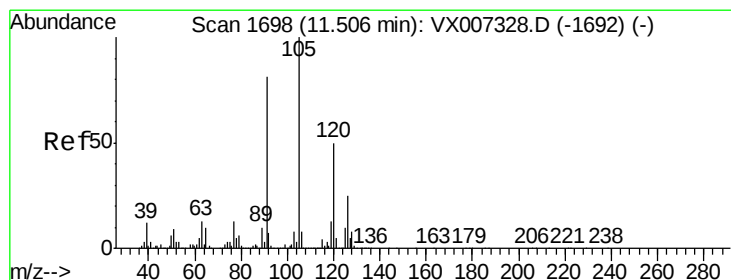
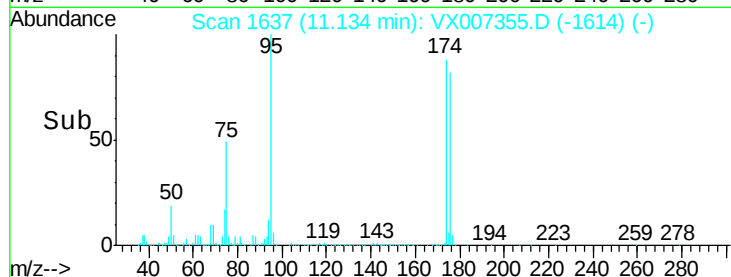
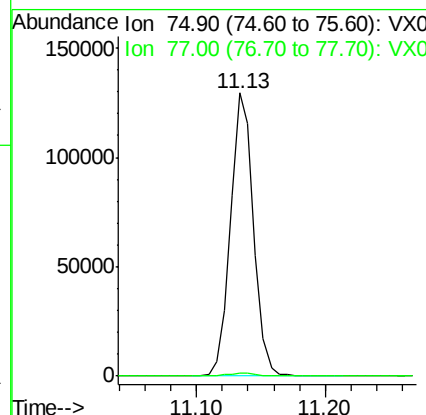
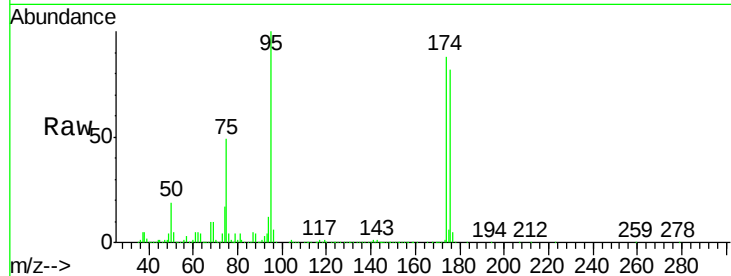




#76
 1,2,3-Trichloropropane
 Concen: 23.067 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007355.D
 Acq: 04 Feb 2019 13:23

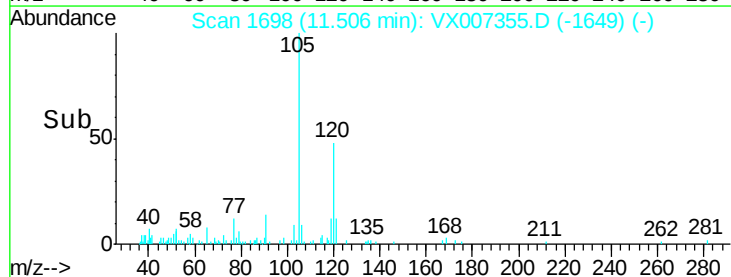
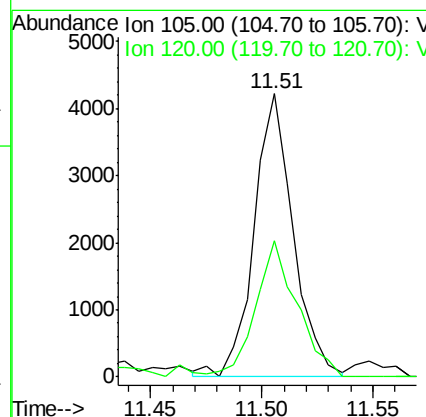
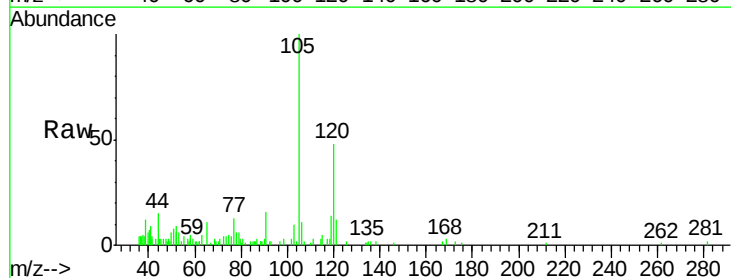
Instrument :
 MSVOA_X
 ClientSampled :
 PB116780TB

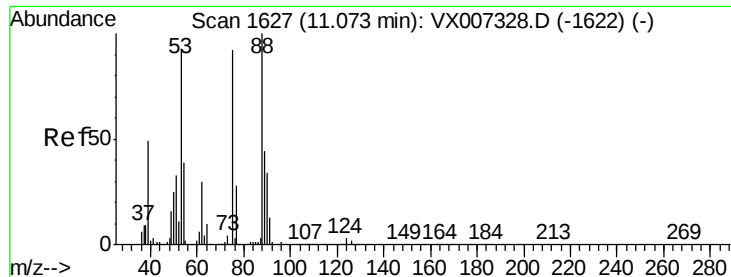
Tot Ion: 75 Resp: 162655
 Ion Ratio Lower Upper
 75 100
 77 1.3 23.0 69.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.257 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX007355.D
 Acq: 04 Feb 2019 13:23

Tgt Ion:105 Resp: 5172
 Ion Ratio Lower Upper
 105 100
 120 50.8 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 69.495 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007355.D

Acq: 04 Feb 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

PB116780TB

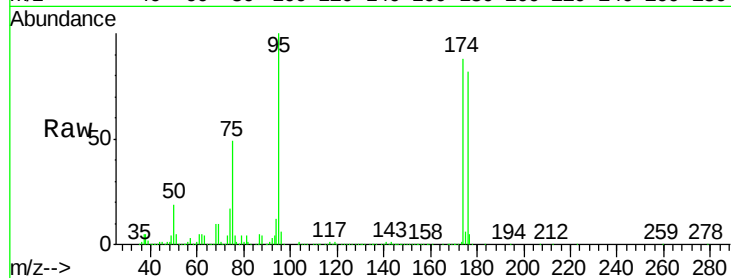
Tot Ion: 75 Resp: 162655

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.1 41.4 62.0#



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

