

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020419\
 Data File : VX007356.D
 Acq On : 04 Feb 2019 13:50
 Operator : JC/SP
 Sample : PB116780ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116780ZHE#01

Quant Time: Feb 04 23:57:51 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	495802	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	767333	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	761579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	369998	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	267094	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
35) Dibromofluoromethane	5.50	113	244212	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
50) Toluene-d8	8.71	98	962095	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
62) 4-Bromofluorobenzene	11.13	95	346241	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	

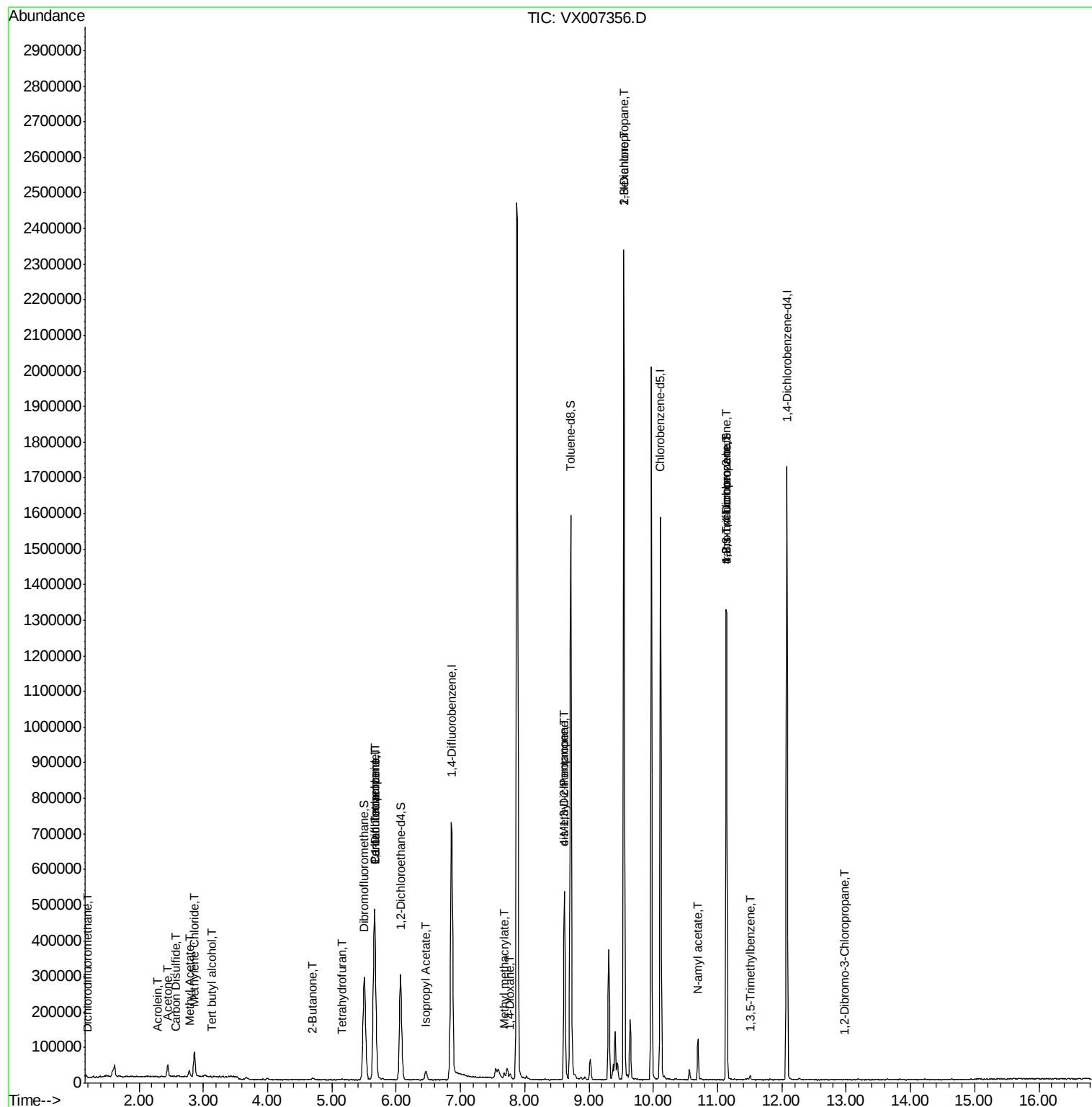
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	217	0.213	ug/l #	33
5) Bromomethane	1.64	94	777	Below Cal	#	65
11) Tert butyl alcohol	3.13	59	458	0.421	ug/l #	61
13) Acrolein	2.28	56	118	0.231	ug/l	85
16) Acetone	2.45	43	35632	14.781	ug/l	94
17) Carbon Disulfide	2.57	76	1185	2.213	ug/l #	83
18) Methyl Acetate	2.78	43	20824	3.869	ug/l	99
20) Methylene Chloride	2.86	84	32486	6.254	ug/l	99
25) 2-Butanone	4.70	43	9119	2.658	ug/l #	89
29) Tetrahydrofuran	5.15	42	1175	0.545	ug/l #	65
36) 1,1-Dichloropropene	5.67	75	32403	4.706	ug/l #	49
38) Carbon Tetrachloride	5.67	117	44828	6.711	ug/l #	17
43) Isopropyl Acetate	6.46	43	34126	3.177	ug/l	100
48) Methyl methacrylate	7.68	41	17720	3.298	ug/l #	13
49) 1,4-Dioxane	7.76	88	117	7.830	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	175130	24.765	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	85089	11.509	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	20396	2.351	ug/l #	45
59) 2-Hexanone	9.54	43	252001	45.793	ug/l #	51
74) N-amyl acetate	10.69	43	25782	2.651	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	165710	23.025	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	5719	0.278	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.13	75	165710	69.378	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	12.97	75	320	0.201	ug/l #	3

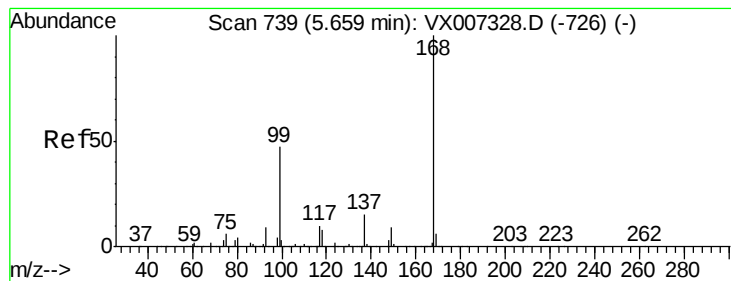
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 04 23:57:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

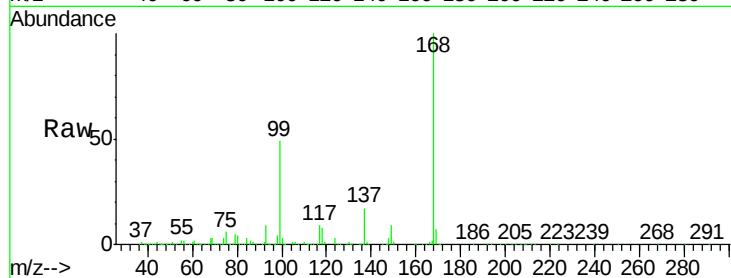
PB116780ZHE#01

Tot Ion:168 Resp: 495802

Ion Ratio Lower Upper

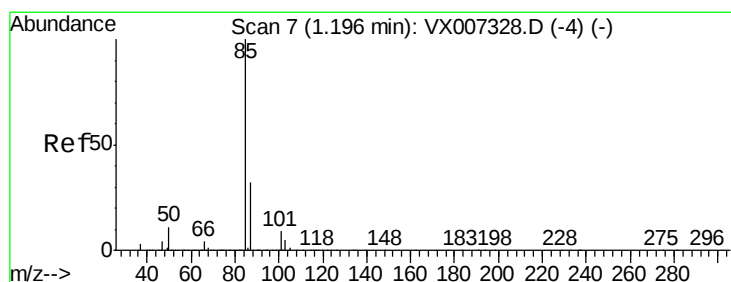
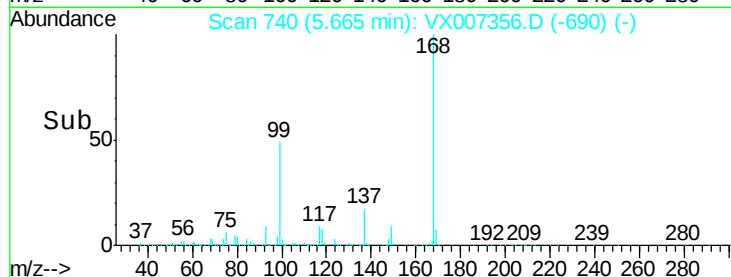
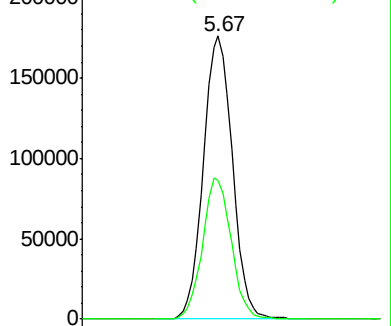
168 100

99 49.1 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.213 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007356.D

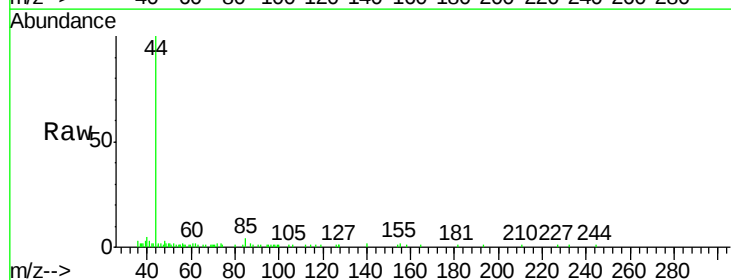
Acq: 04 Feb 2019 13:50

Tgt Ion: 85 Resp: 217

Ion Ratio Lower Upper

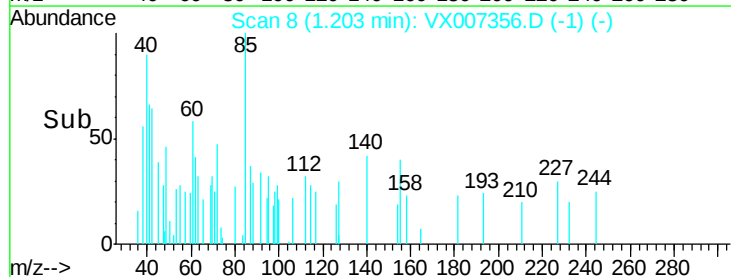
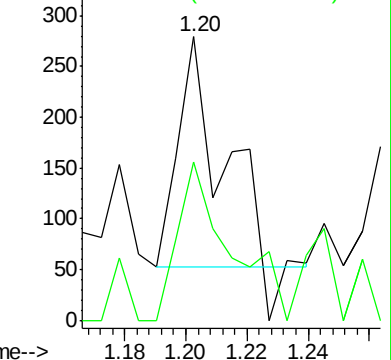
85 100

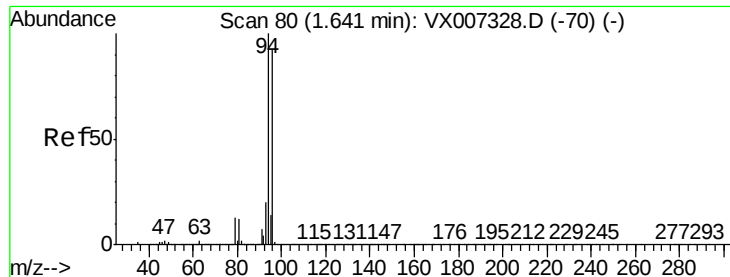
87 68.7 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

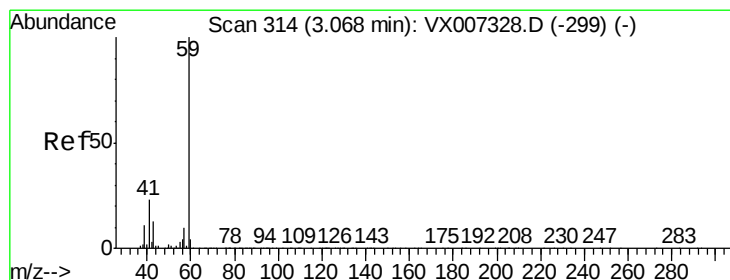
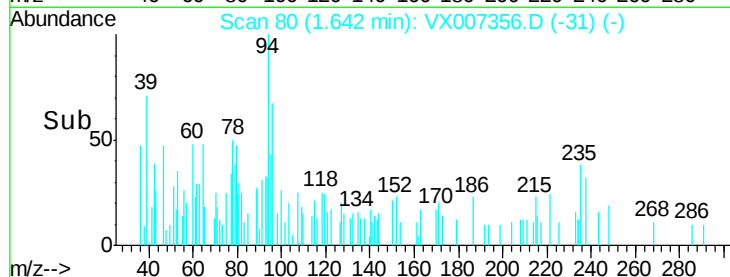
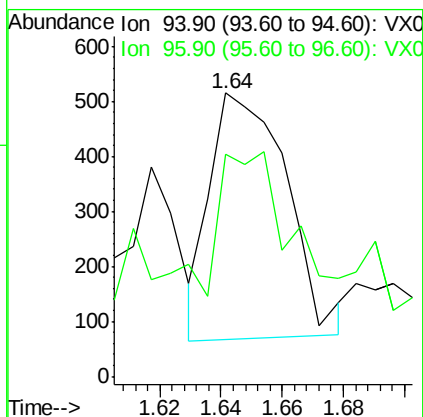
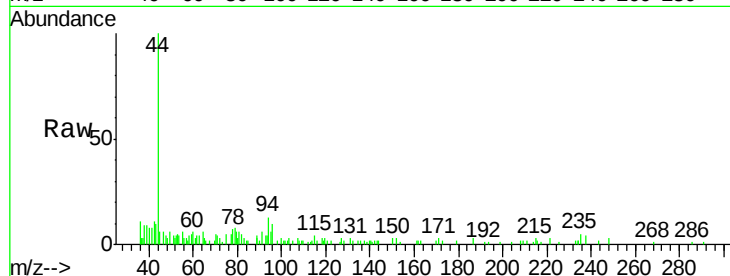
PB116780ZHE#01

Tot Ion: 94 Resp: 777

Ion Ratio Lower Upper

94 100

96 59.1 73.9 110.9#



#11

Tert butyl alcohol

Concen: 0.421 ug/l

RT: 3.13 min Scan# 324

Delta R.T. 0.06 min

Lab File: VX007356.D

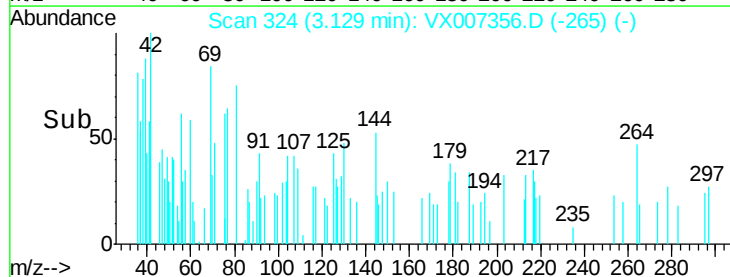
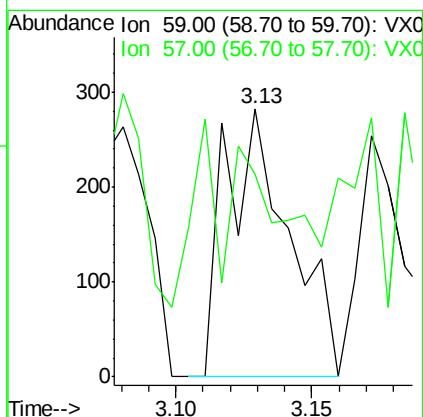
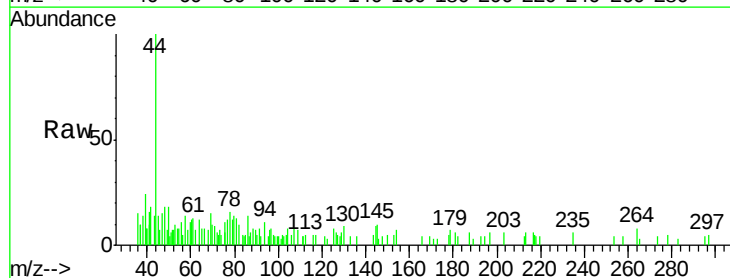
Acq: 04 Feb 2019 13:50

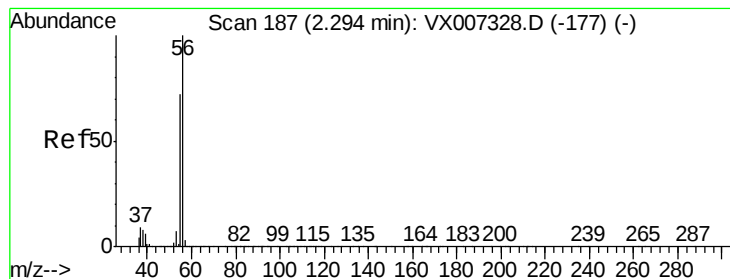
Tgt Ion: 59 Resp: 458

Ion Ratio Lower Upper

59 100

57 24.5 8.1 12.1#





#13

Acrolein

Concen: 0.231 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

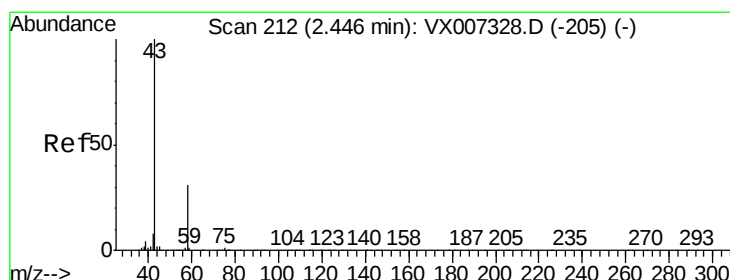
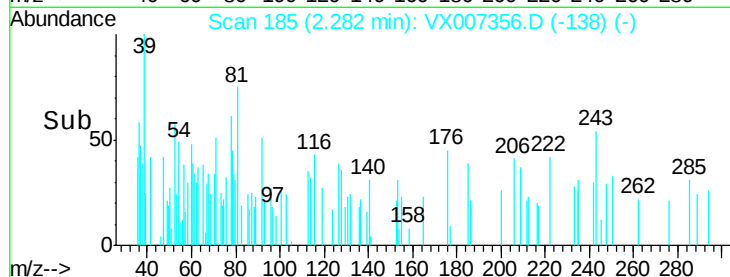
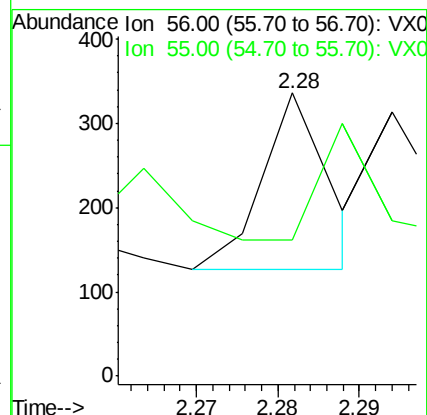
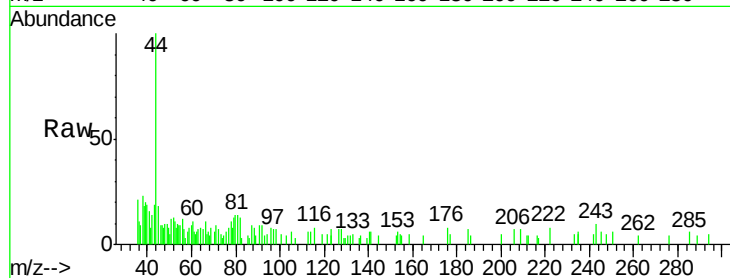
PB116780ZHE#01

Tot Ion: 56 Resp: 118

Ion Ratio Lower Upper

56 100

55 58.5 56.9 85.3



#16

Acetone

Concen: 14.781 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007356.D

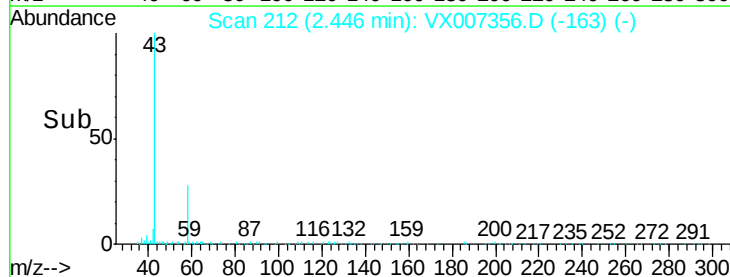
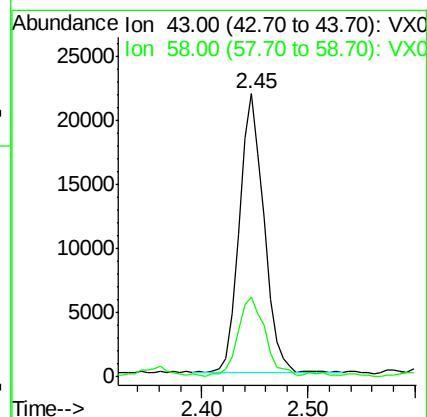
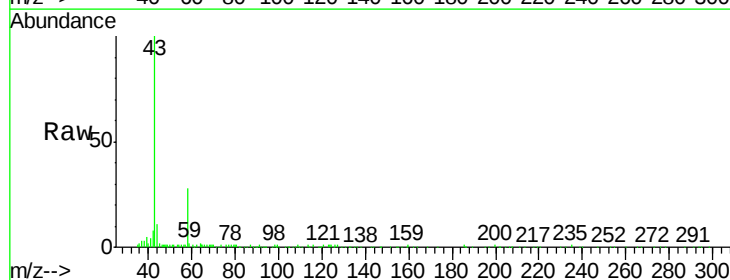
Acq: 04 Feb 2019 13:50

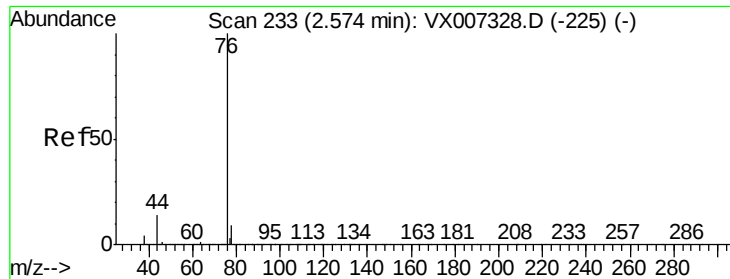
Tgt Ion: 43 Resp: 35632

Ion Ratio Lower Upper

43 100

58 27.6 24.9 37.3

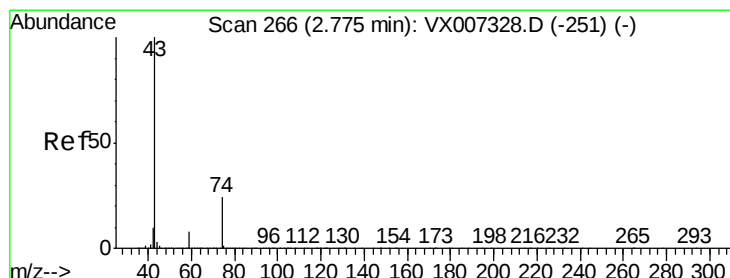
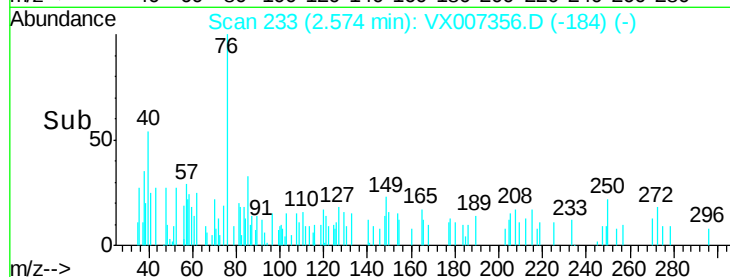
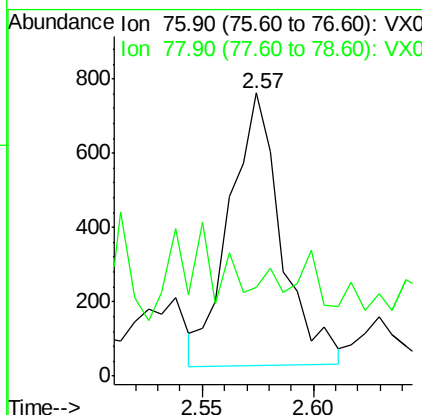
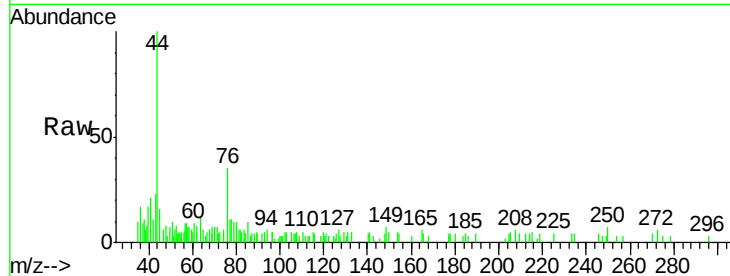




#17
Carbon Disulfide
Concen: 2.213 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.00 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

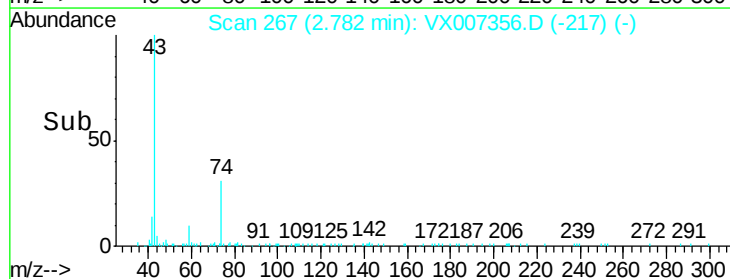
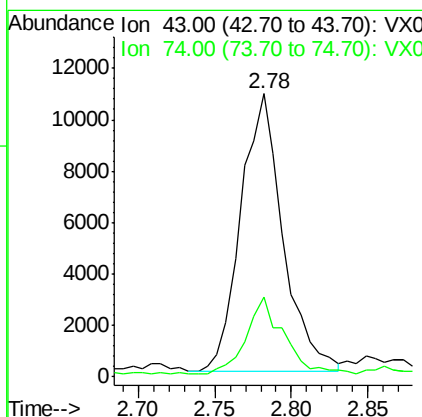
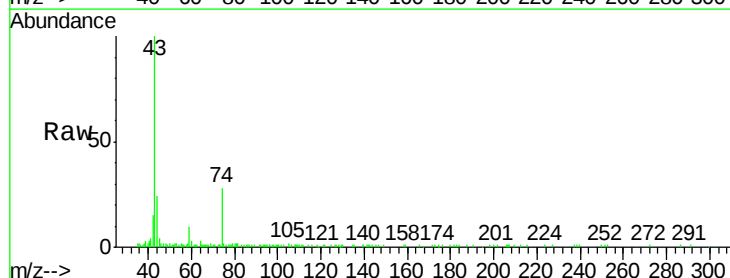
Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#01

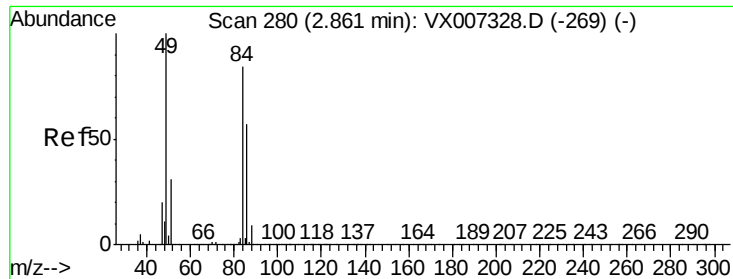
Tot Ion: 76 Resp: 1185
Ion Ratio Lower Upper
76 100
78 2.8 7.1 10.7#



#18
Methyl Acetate
Concen: 3.869 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

Tgt Ion: 43 Resp: 20824
Ion Ratio Lower Upper
43 100
74 24.8 19.4 29.2

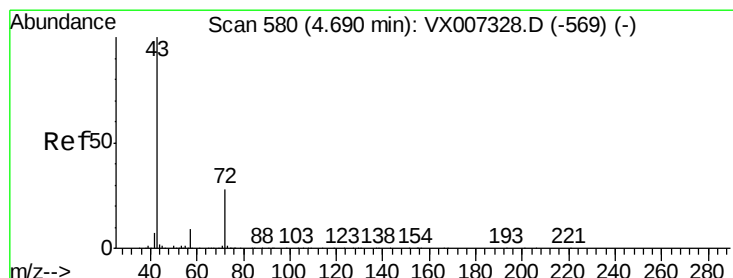
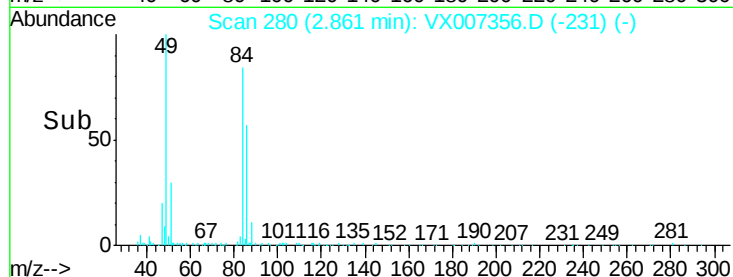
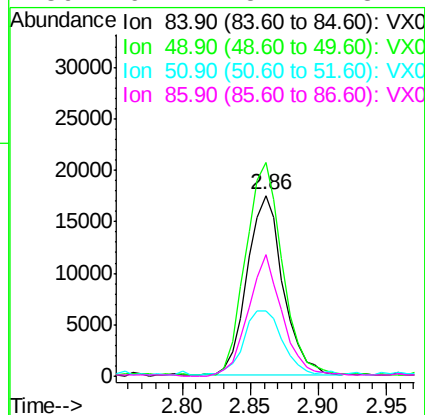
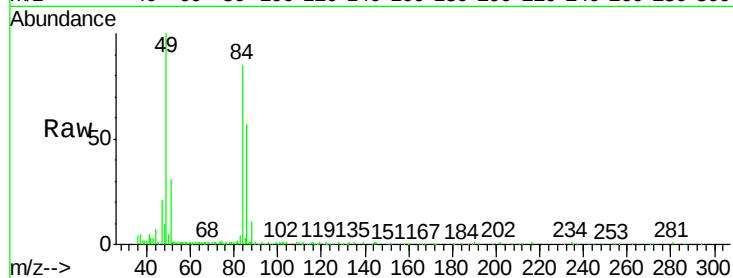




#20
Methvlene Chloride
Concen: 6.254 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

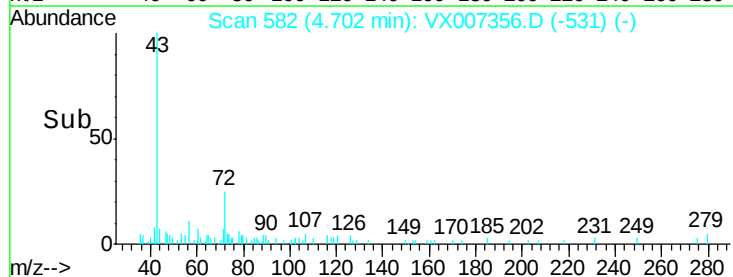
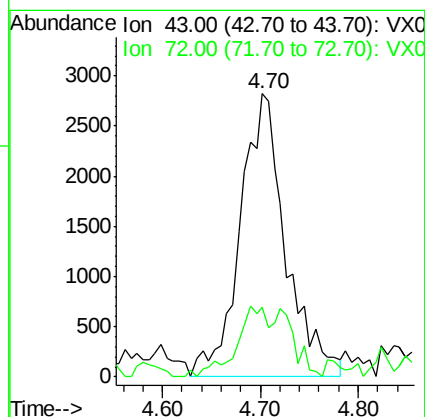
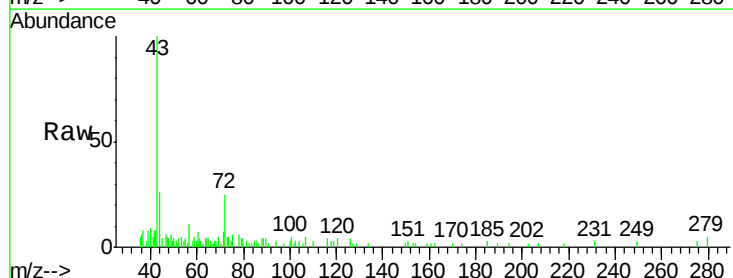
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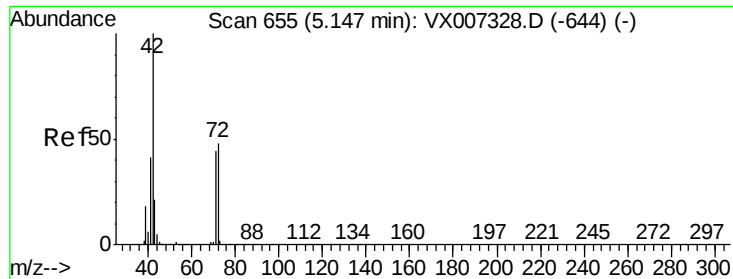
Tot Ion:	84	Resp:	32486
Ion	Ratio	Lower	Upper
84	100		
49	117.4	94.8	142.2
51	35.9	29.8	44.8
86	67.7	54.1	81.1



#25
2-Butanone
Concen: 2.658 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

Tgt Ion:	43	Resp:	9119
Ion	Ratio	Lower	Upper
43	100		
72	22.0	22.2	33.2#

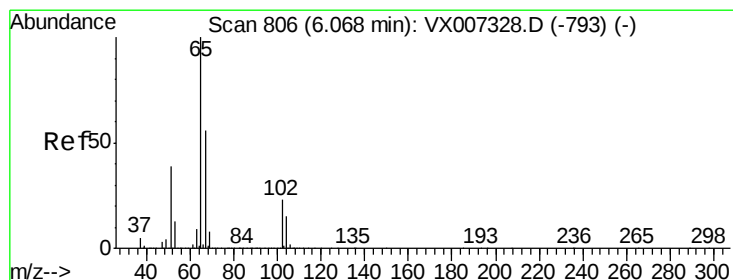
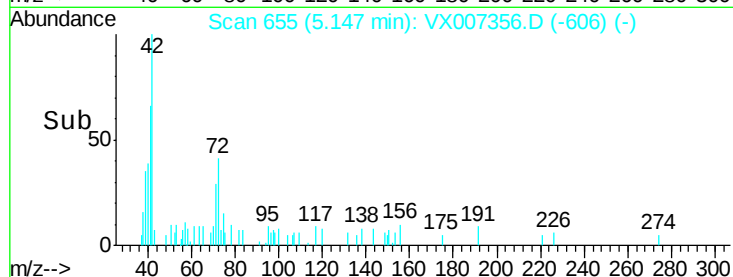
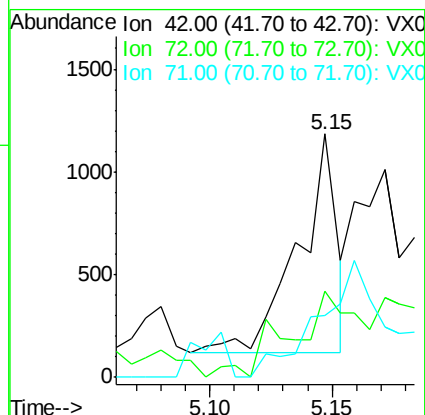
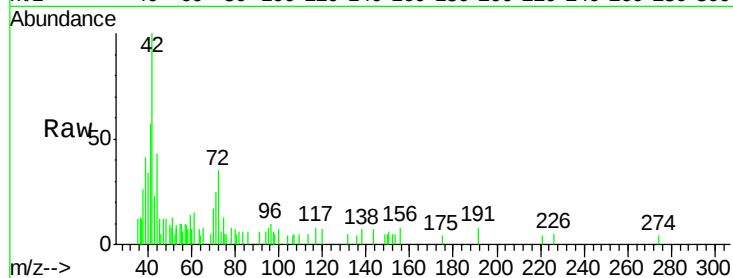




#29
Tetrahydrofuran
Concen: 0.545 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.00 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

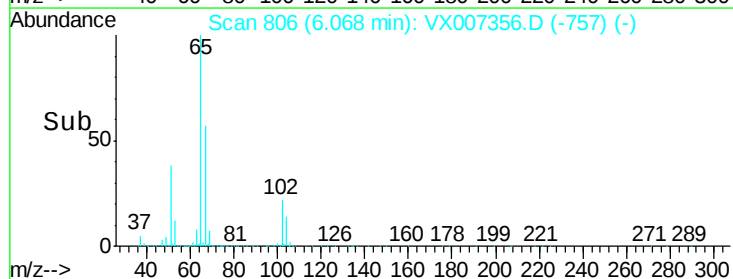
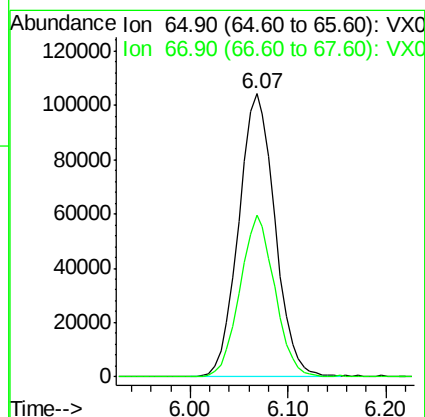
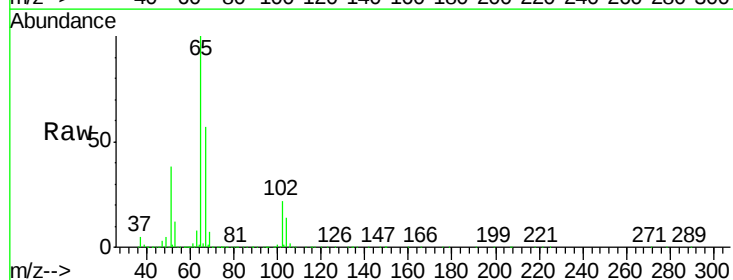
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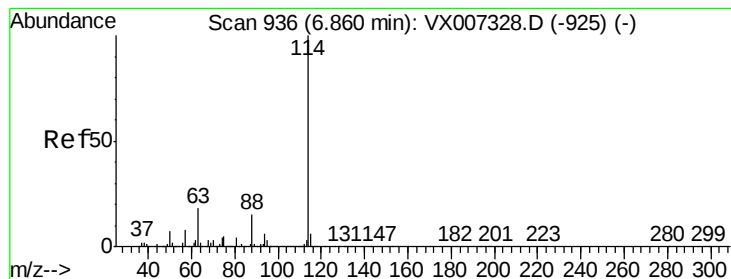
Tot Ion: 42 Resp: 1175
Ion Ratio Lower Upper
42 100
72 51.1 37.6 56.4
71 0.0 34.6 51.8#



#33
1,2-Dichloroethane-d4
Concen: 50.754 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

Tgt Ion: 65 Resp: 267094
Ion Ratio Lower Upper
65 100
67 55.0 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#01

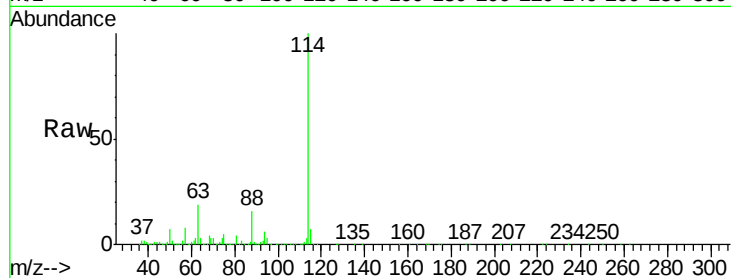
Tot Ion:114 Resp: 767333

Ion Ratio Lower Upper

114 100

63 18.9 0.0 35.6

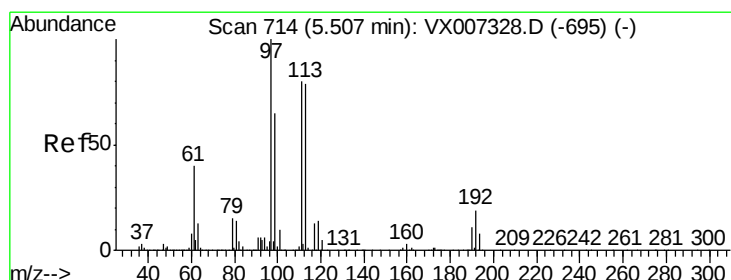
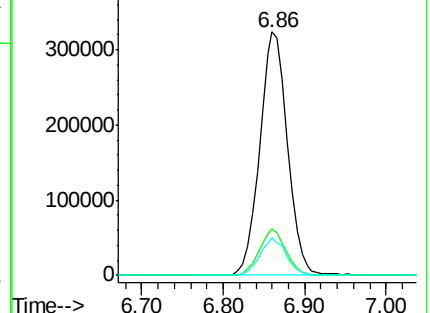
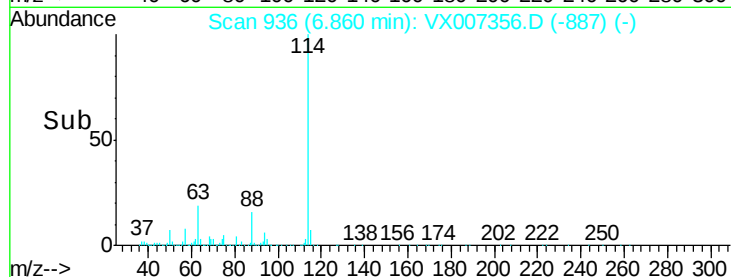
88 15.6 0.0 29.6



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



#35

Dibromofluoromethane

Concen: 48.913 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

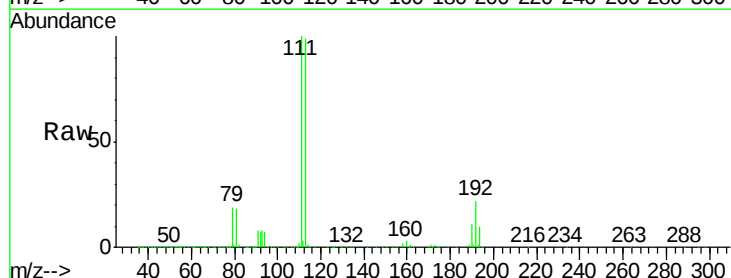
Tgt Ion:113 Resp: 244212

Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.8

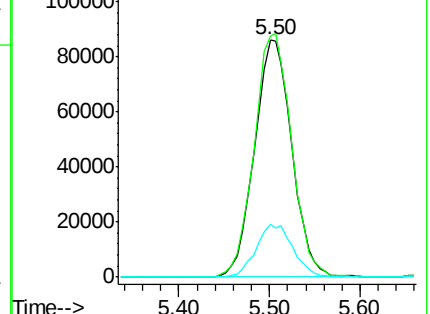
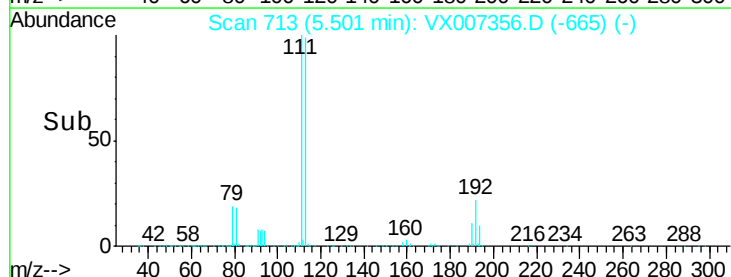
192 22.2 18.5 27.7

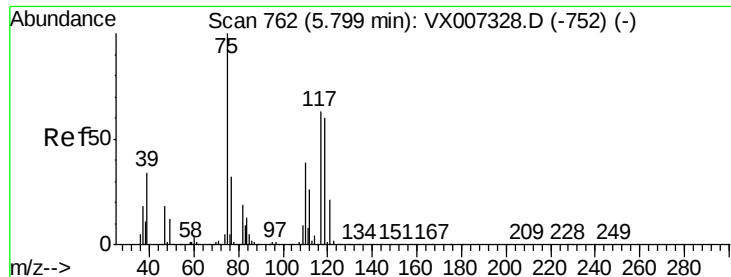


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.706 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.13 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#01

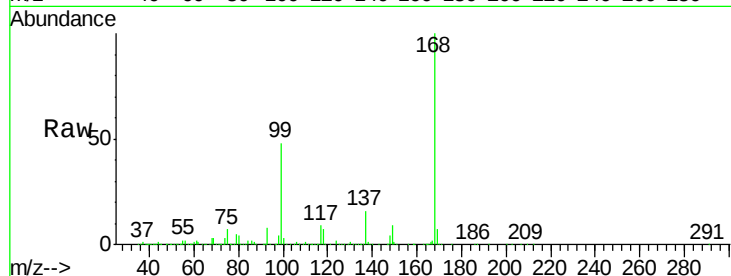
Tot Ion: 75 Resp: 32403

Ion Ratio Lower Upper

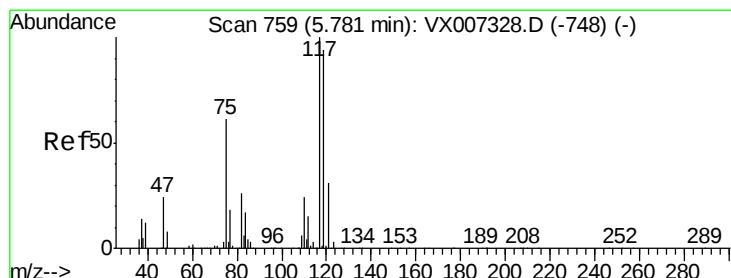
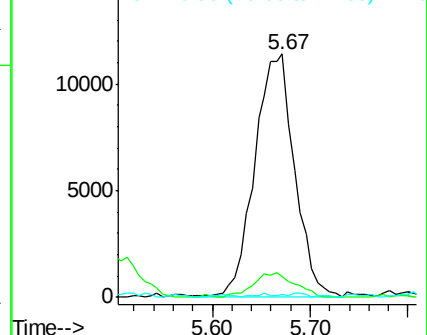
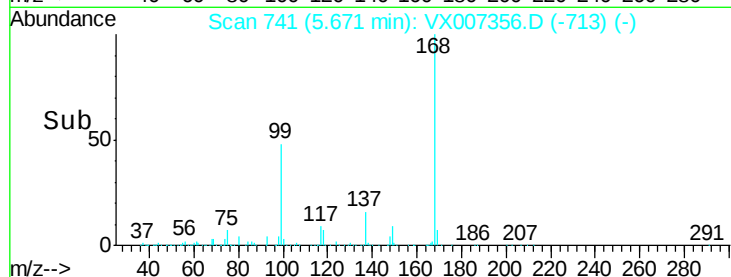
75 100

110 10.4 20.0 59.9#

77 0.7 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX007356.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.711 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

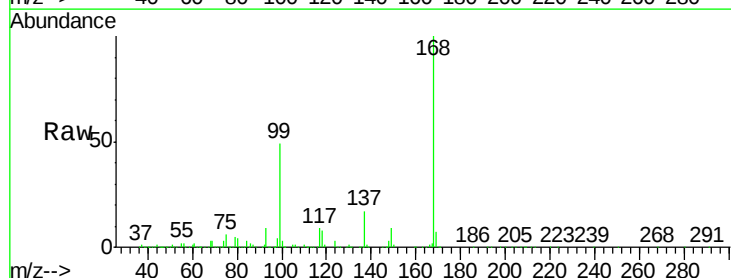
Tgt Ion: 117 Resp: 44828

Ion Ratio Lower Upper

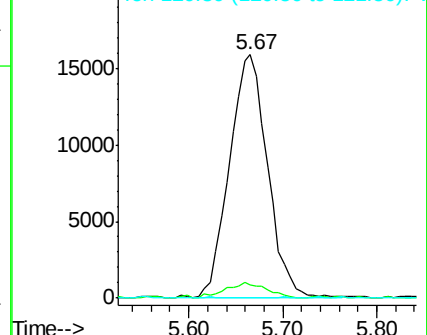
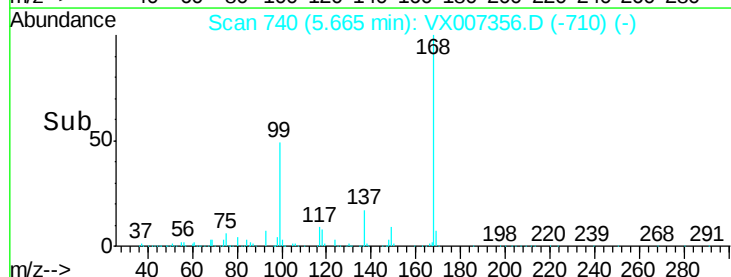
117 100

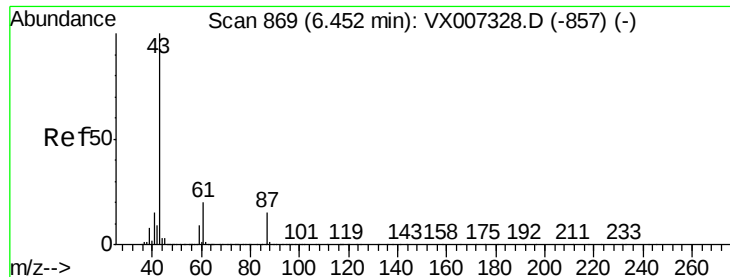
119 5.6 75.3 112.9#

121 0.0 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): VX007356.D (-710) (-)



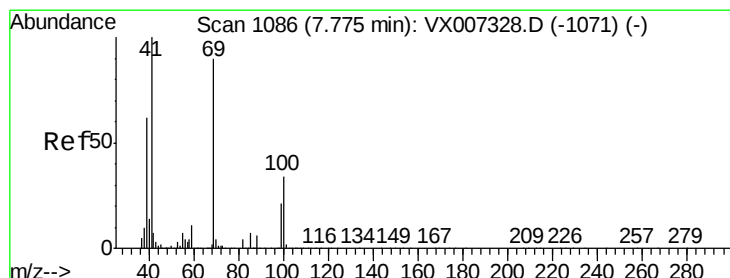
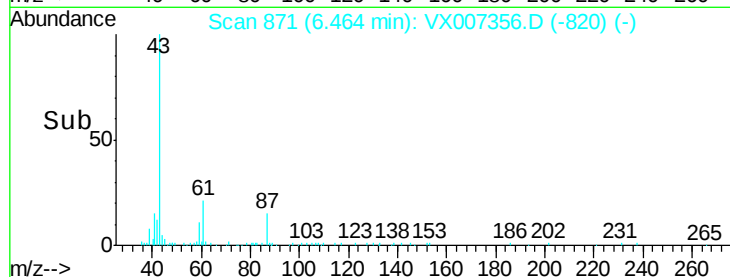
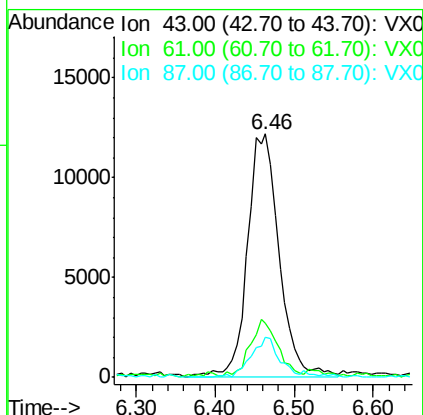
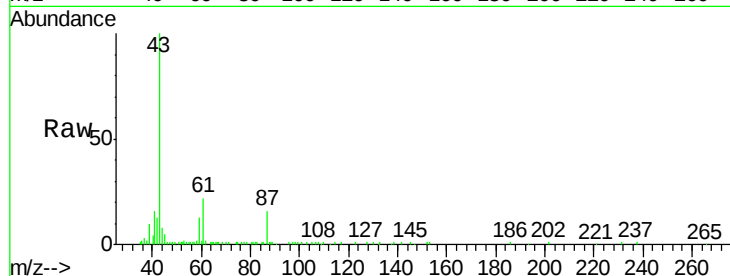


#43

Isopropyl Acetate
 Concen: 3.177 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX007356.D
 Acq: 04 Feb 2019 13:50

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116780ZHE#01

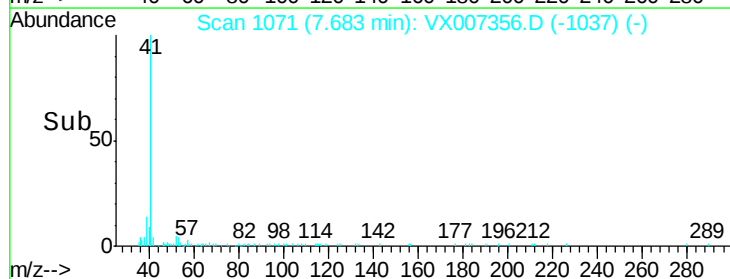
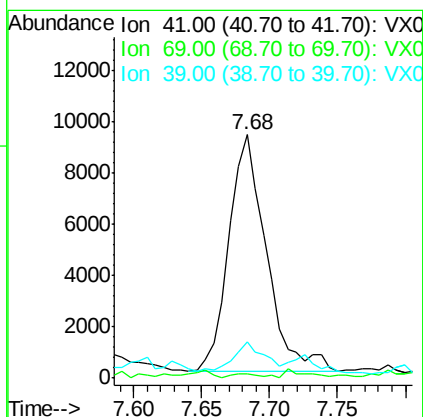
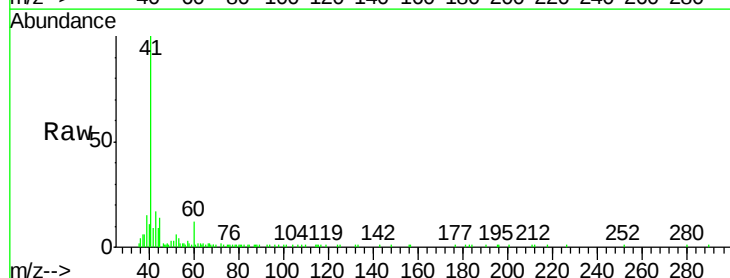
Tot Ion	Ratio	Lower	Upper
43	100		
61	20.2	16.1	24.1
87	14.5	11.5	17.3

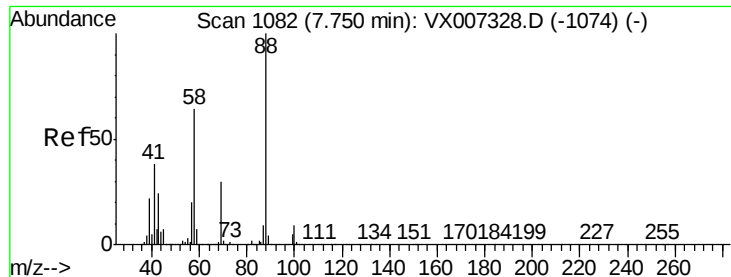


#48

Methyl methacrylate
 Concen: 3.298 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX007356.D
 Acq: 04 Feb 2019 13:50

Tgt Ion	Ratio	Lower	Upper
41	100		
69	1.3	70.2	105.4#
39	0.0	47.4	71.0#

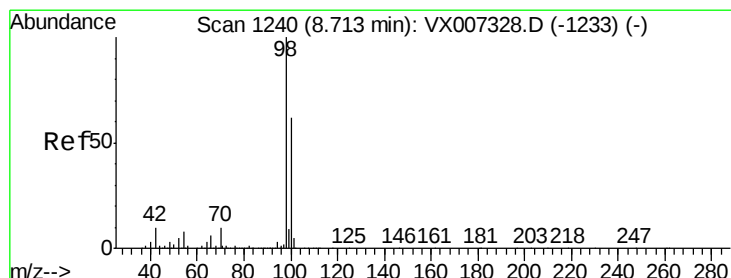
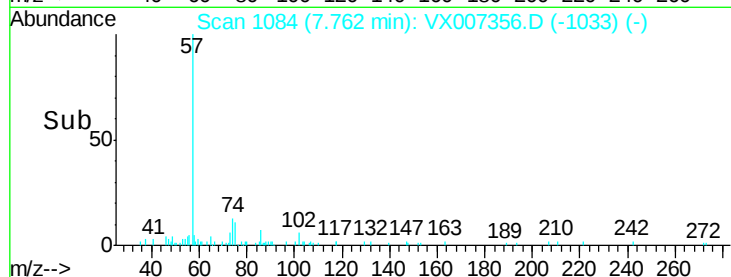
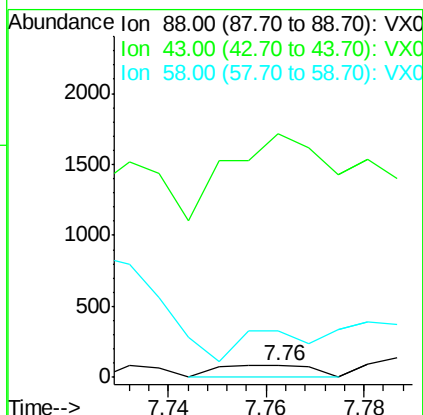
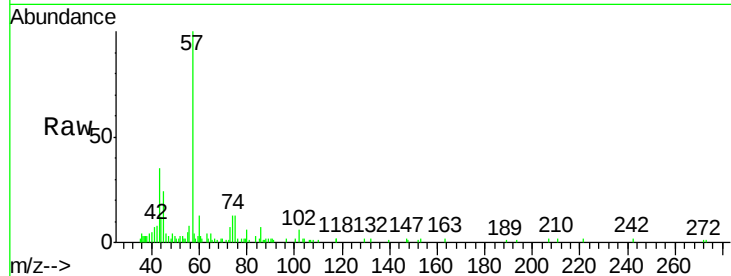




#49
1,4-Dioxane
Concen: 7.830 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

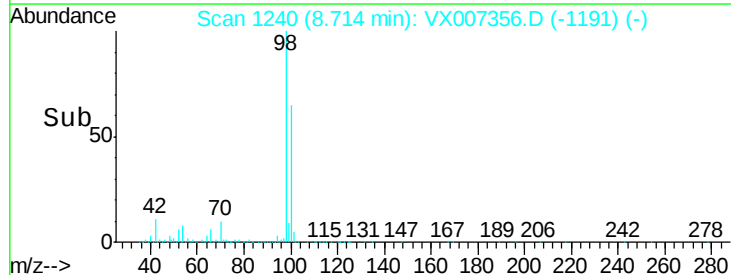
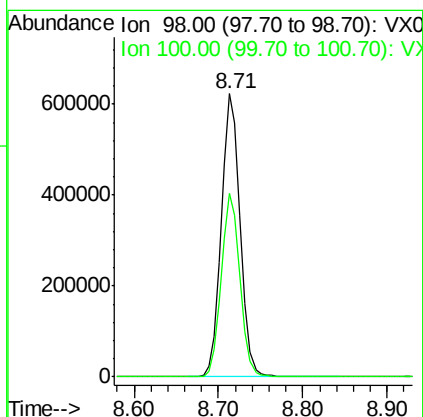
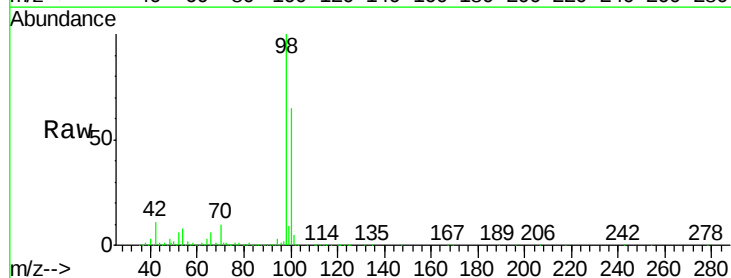
Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#01

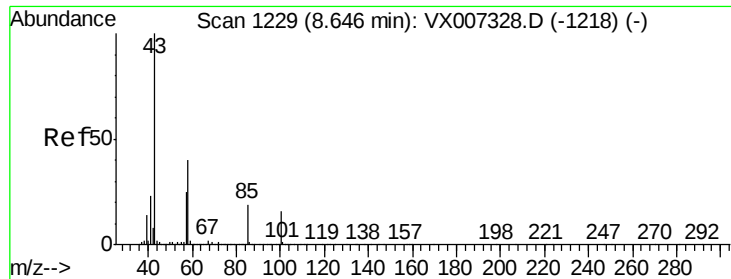
Tot Ion: 88 Resp: 117
Ion Ratio Lower Upper
88 100
43 0.0 24.2 36.4#
58 280.3 53.0 79.4#



#50
Toluene-d8
Concen: 51.938 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

Tgt Ion: 98 Resp: 962095
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4

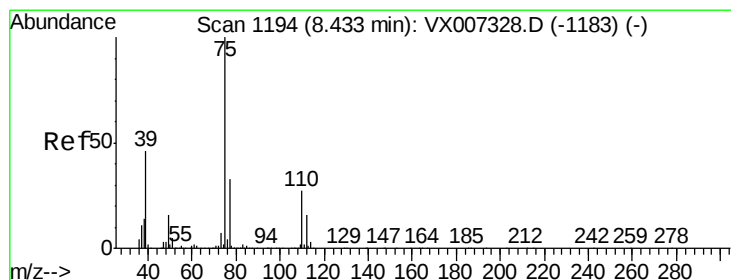
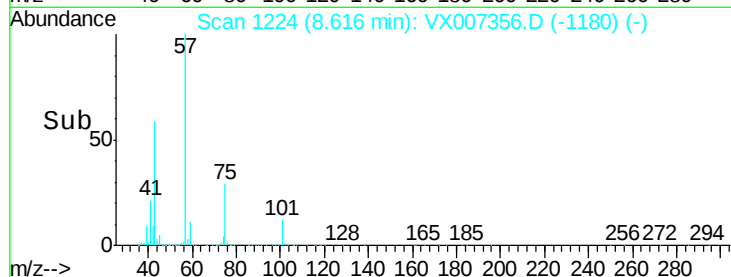
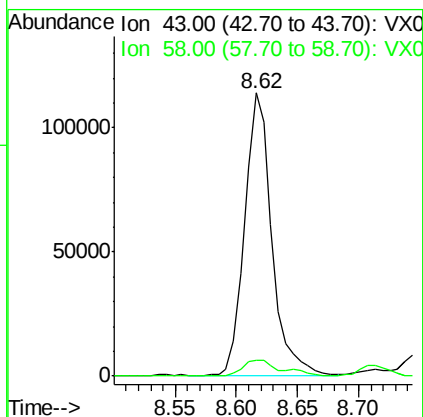
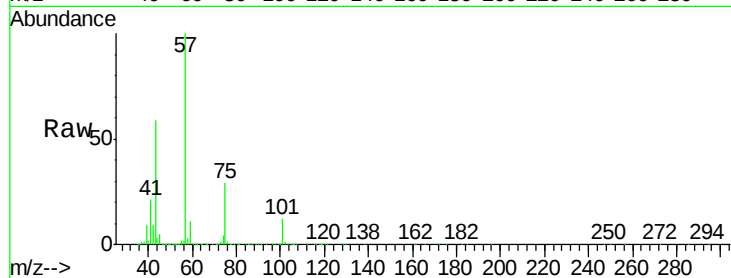




#51
4-Methyl-2-Pentanone
Concen: 24.765 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

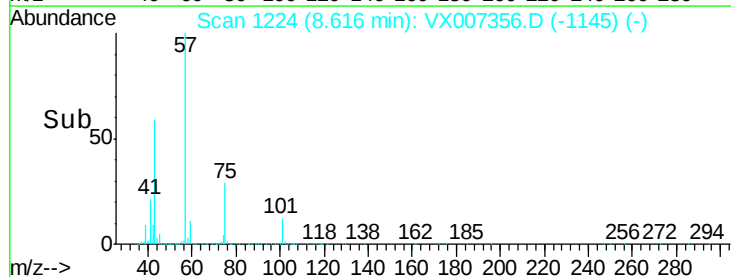
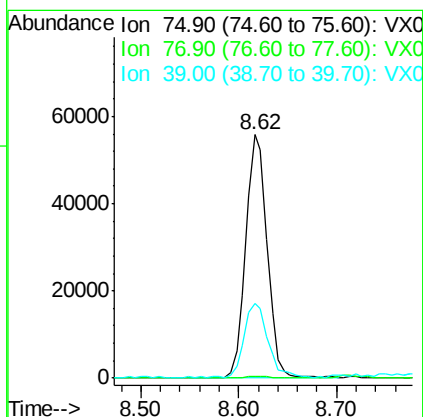
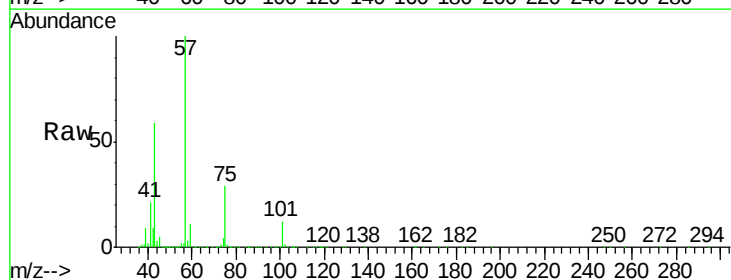
Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#01

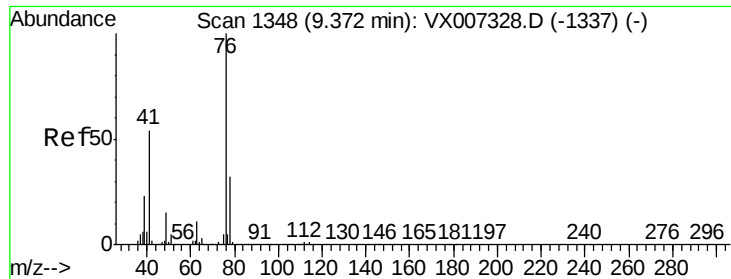
Tot Ion: 43 Resp: 175130
Ion Ratio Lower Upper
43 100
58 8.2 31.2 46.8#



#54
cis-1,3-Dichloropropene
Concen: 11.509 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. 0.18 min
Lab File: VX007356.D
Acq: 04 Feb 2019 13:50

Tgt Ion: 75 Resp: 85089
Ion Ratio Lower Upper
75 100
77 0.3 26.2 39.4#
39 30.0 37.1 55.7#





#57

1,3-Dichloropropane

Concen: 2.351 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

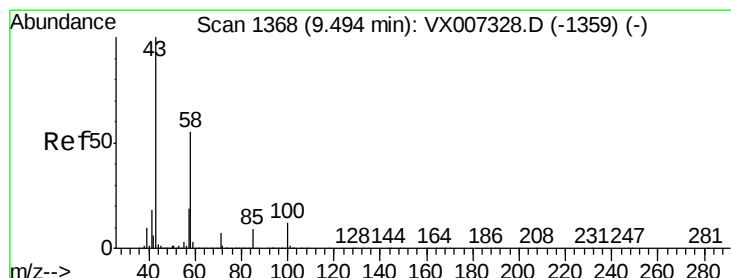
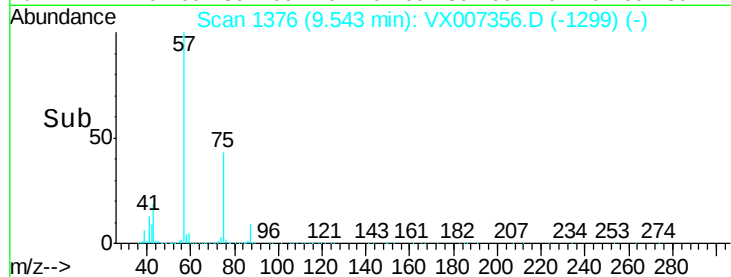
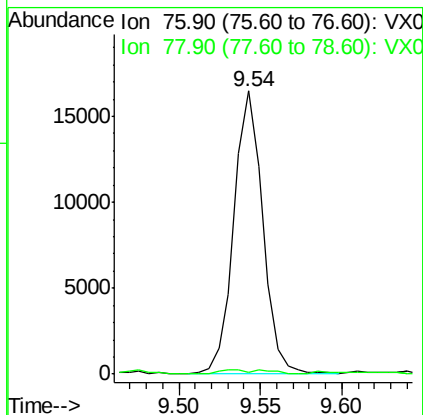
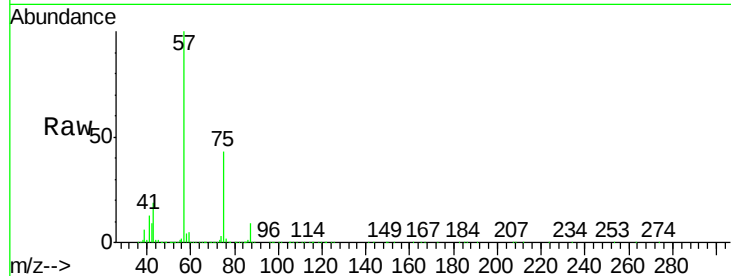
PB116780ZHE#01

Tot Ion: 76 Resp: 20396

Ion Ratio Lower Upper

76 100

78 1.4 25.8 38.8#



#59

2-Hexanone

Concen: 45.793 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007356.D

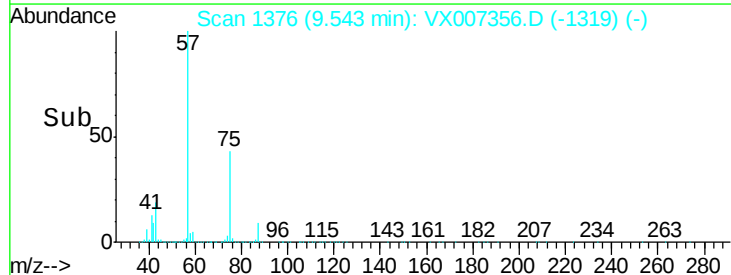
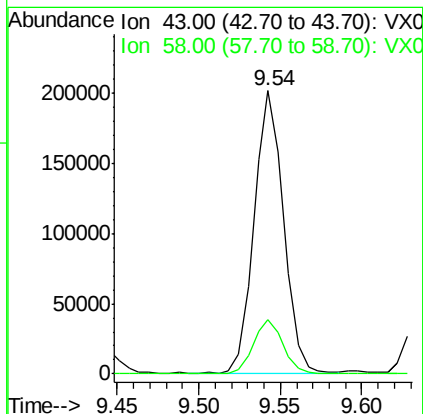
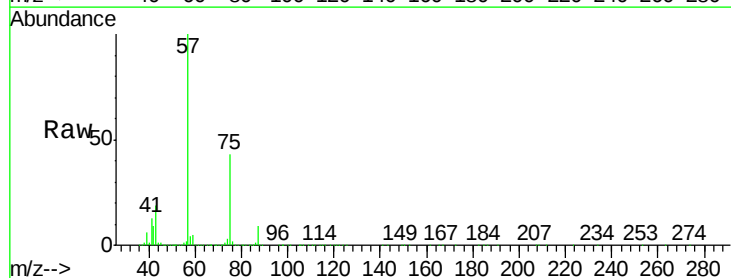
Acq: 04 Feb 2019 13:50

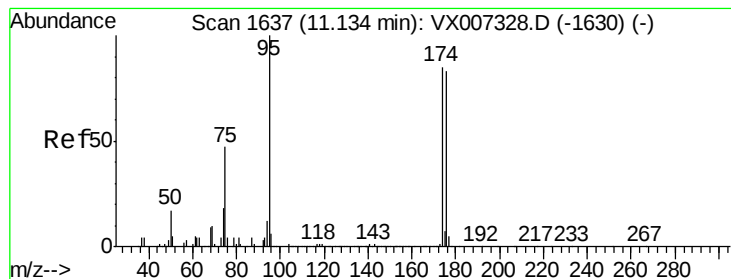
Tgt Ion: 43 Resp: 252001

Ion Ratio Lower Upper

43 100

58 19.2 27.1 81.3#





#62

4-Bromofluorobenzene

Concen: 51.195 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#01

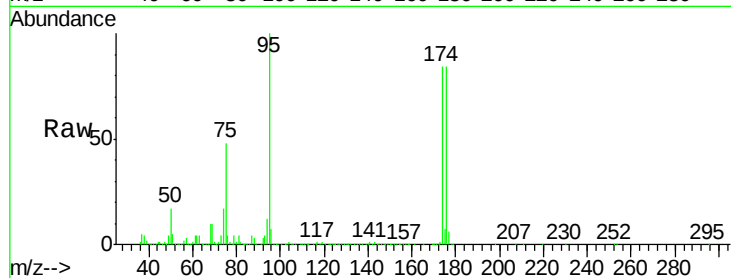
Tot Ion: 95 Resp: 346241

Ion Ratio Lower Upper

95 100

174 92.8 0.0 189.2

176 89.3 0.0 186.2

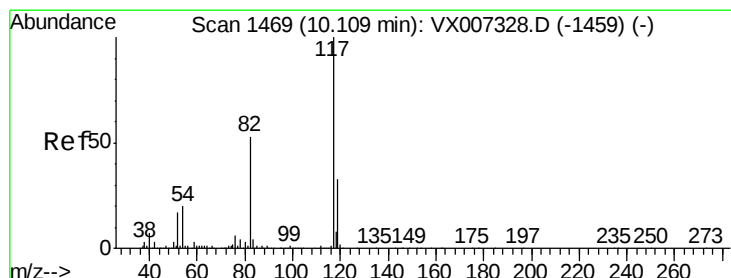
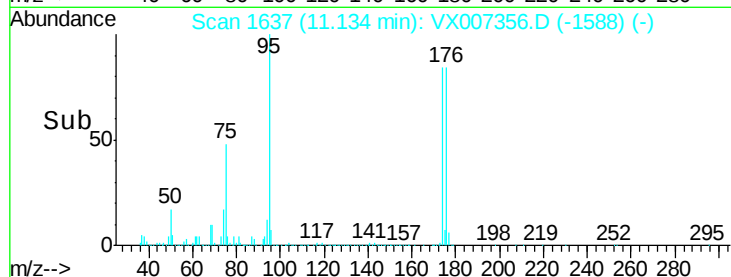


Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007328.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007328.D (-1630) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

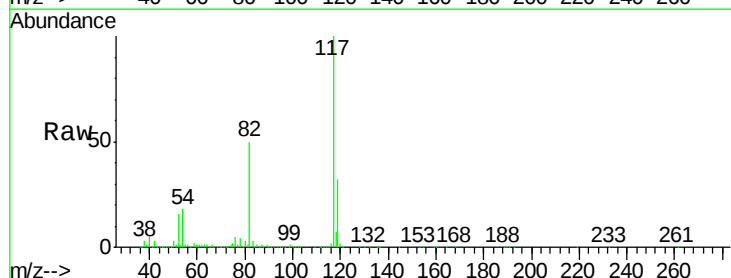
Tgt Ion: 117 Resp: 761579

Ion Ratio Lower Upper

117 100

82 50.0 42.1 63.1

119 32.0 26.5 39.7

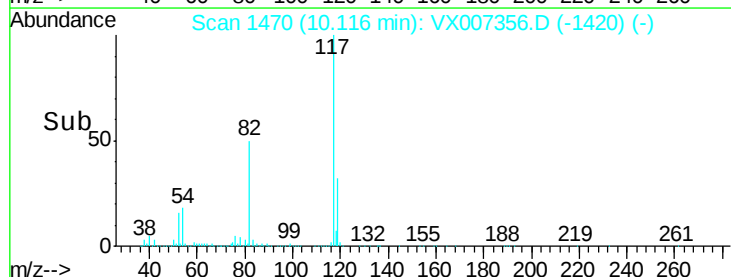


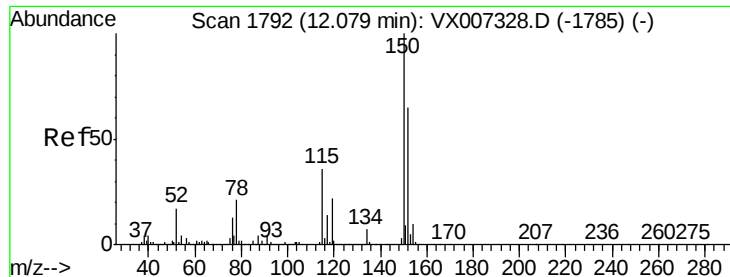
Abundance Ion 116.90 (116.60 to 117.60): VX007328.D (-1459) (-)

Ion 82.00 (81.70 to 82.70): VX007328.D (-1459) (-)

Ion 118.90 (118.60 to 119.60): VX007328.D (-1459) (-)

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: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#01

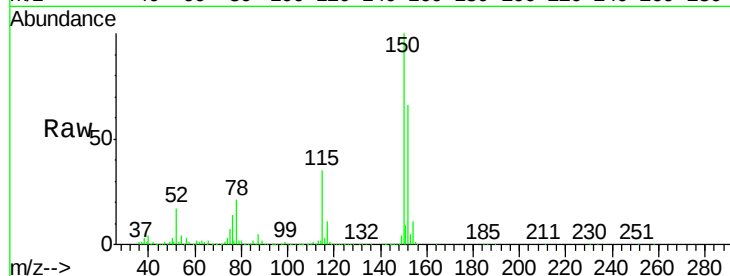
Tot Ion:152 Resp: 369998

Ion Ratio Lower Upper

152 100

115 54.9 38.0 114.0

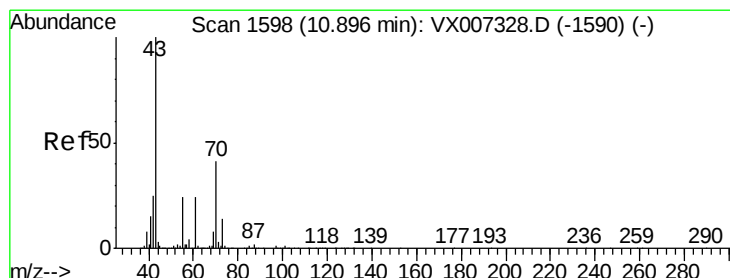
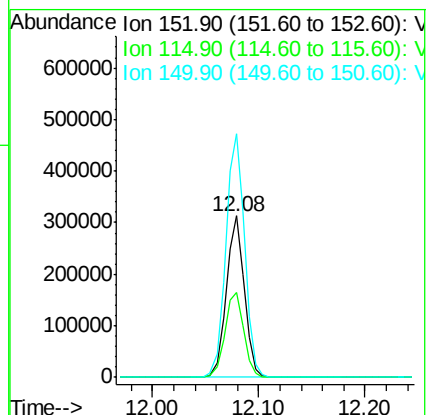
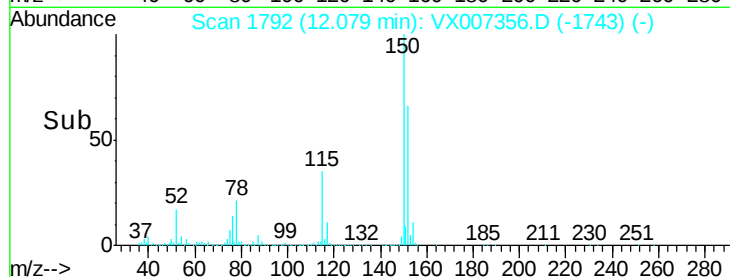
150 156.9 0.0 346.4



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: 2.651 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Tgt Ion: 43 Resp: 25782

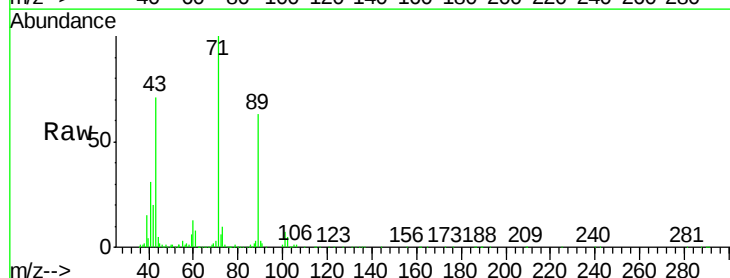
Ion Ratio Lower Upper

43 100

70 3.1 33.8 50.6#

55 6.6 19.5 29.3#

61 12.2 19.4 29.2#

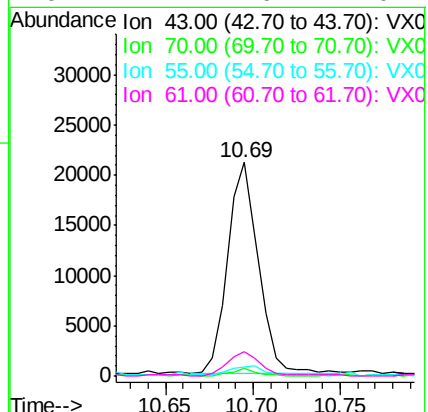
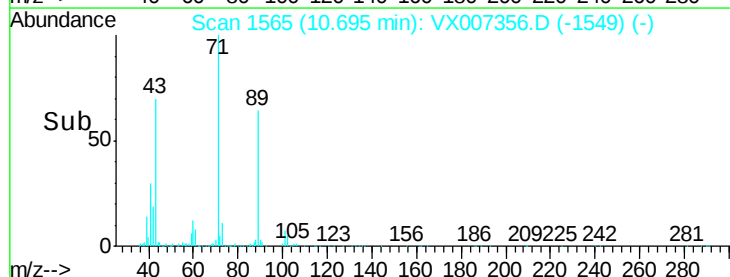


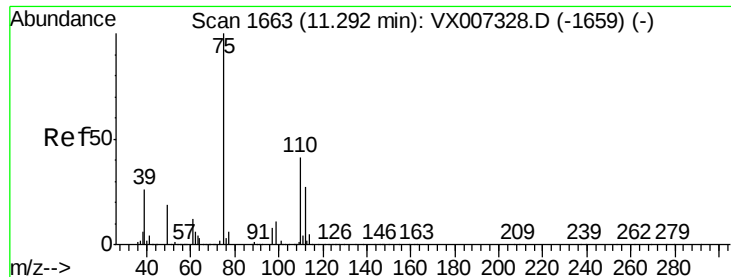
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.025 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

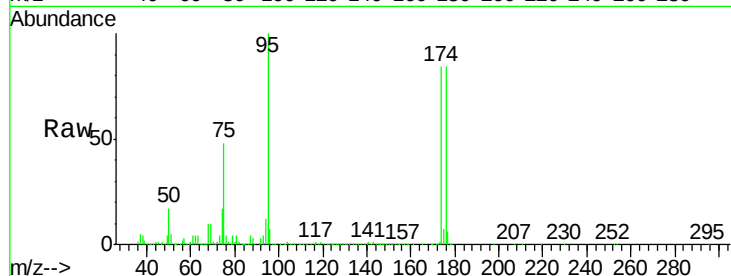
PB116780ZHE#01

Tot Ion: 75 Resp: 165710

Ion Ratio Lower Upper

75 100

77 1.5 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

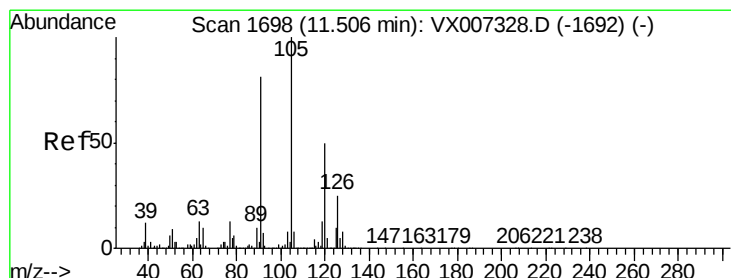
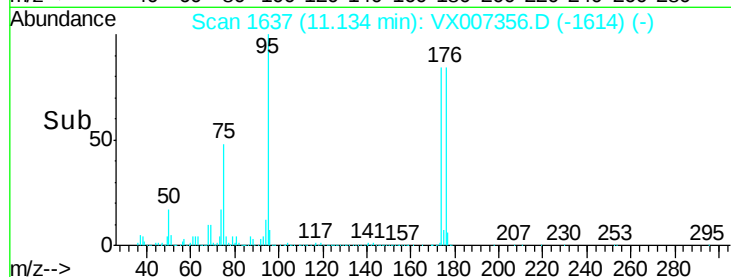
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.278 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007356.D

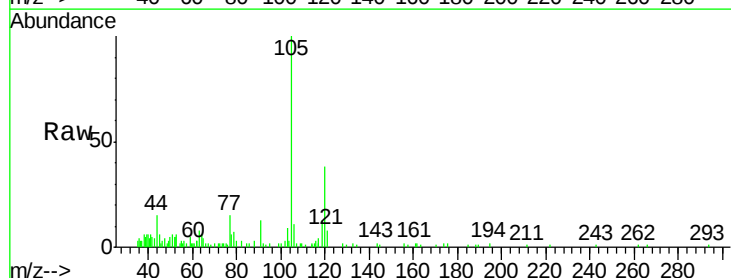
Acq: 04 Feb 2019 13:50

Tgt Ion:105 Resp: 5719

Ion Ratio Lower Upper

105 100

120 45.5 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.51

5000

4000

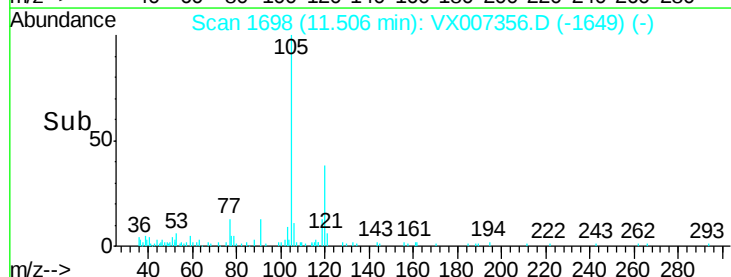
3000

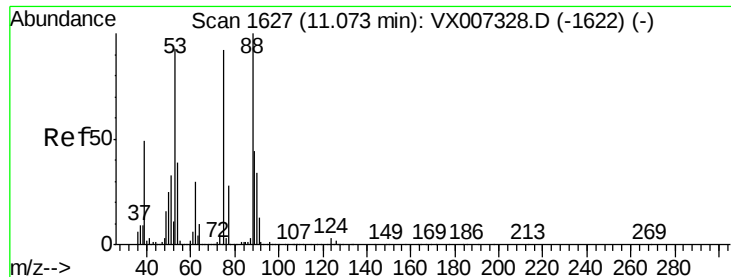
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 69.378 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#01

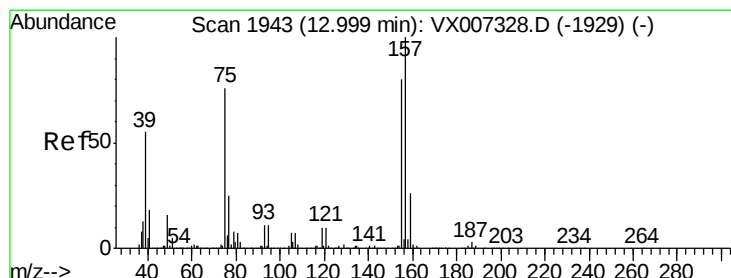
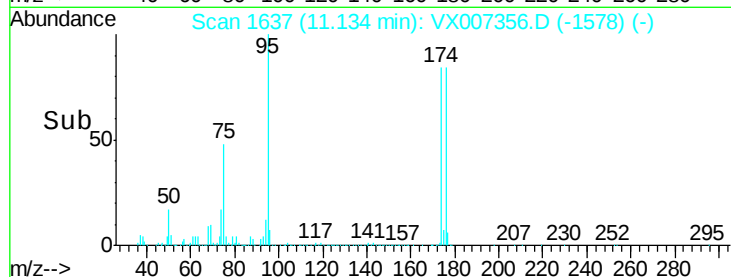
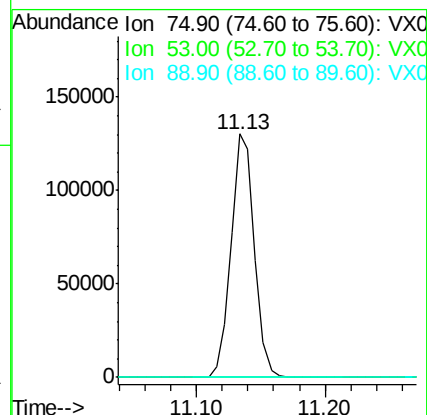
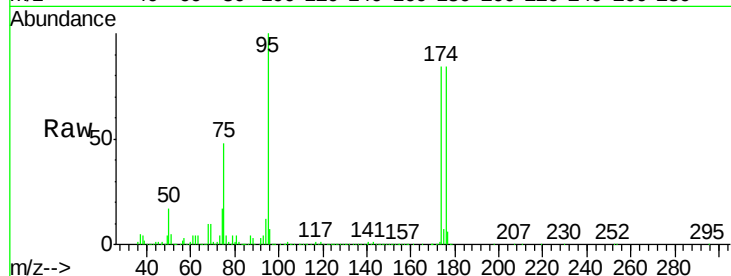
Tot Ion: 75 Resp: 165710

Ion Ratio Lower Upper

75 100

53 0.4 81.0 121.6#

89 0.1 41.4 62.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.201 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX007356.D

Acq: 04 Feb 2019 13:50

Tgt Ion: 75 Resp: 320

Ion Ratio Lower Upper

75 100

155 9.4 49.6 149.0#

157 11.6 65.1 195.3#

