

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX021819\
 Data File : VX007589.D
 Acq On : 18 Feb 2019 15:32
 Operator : JC/SP
 Sample : PB117159ZHE#20
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117159ZHE#20

Quant Time: Feb 19 04:12:38 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	460091	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	721174	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	714414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	334707	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	258069	52.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.70%	
35) Dibromofluoromethane	5.50	113	238235	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
50) Toluene-d8	8.71	98	902328	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
62) 4-Bromofluorobenzene	11.13	95	317628	49.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.94%	

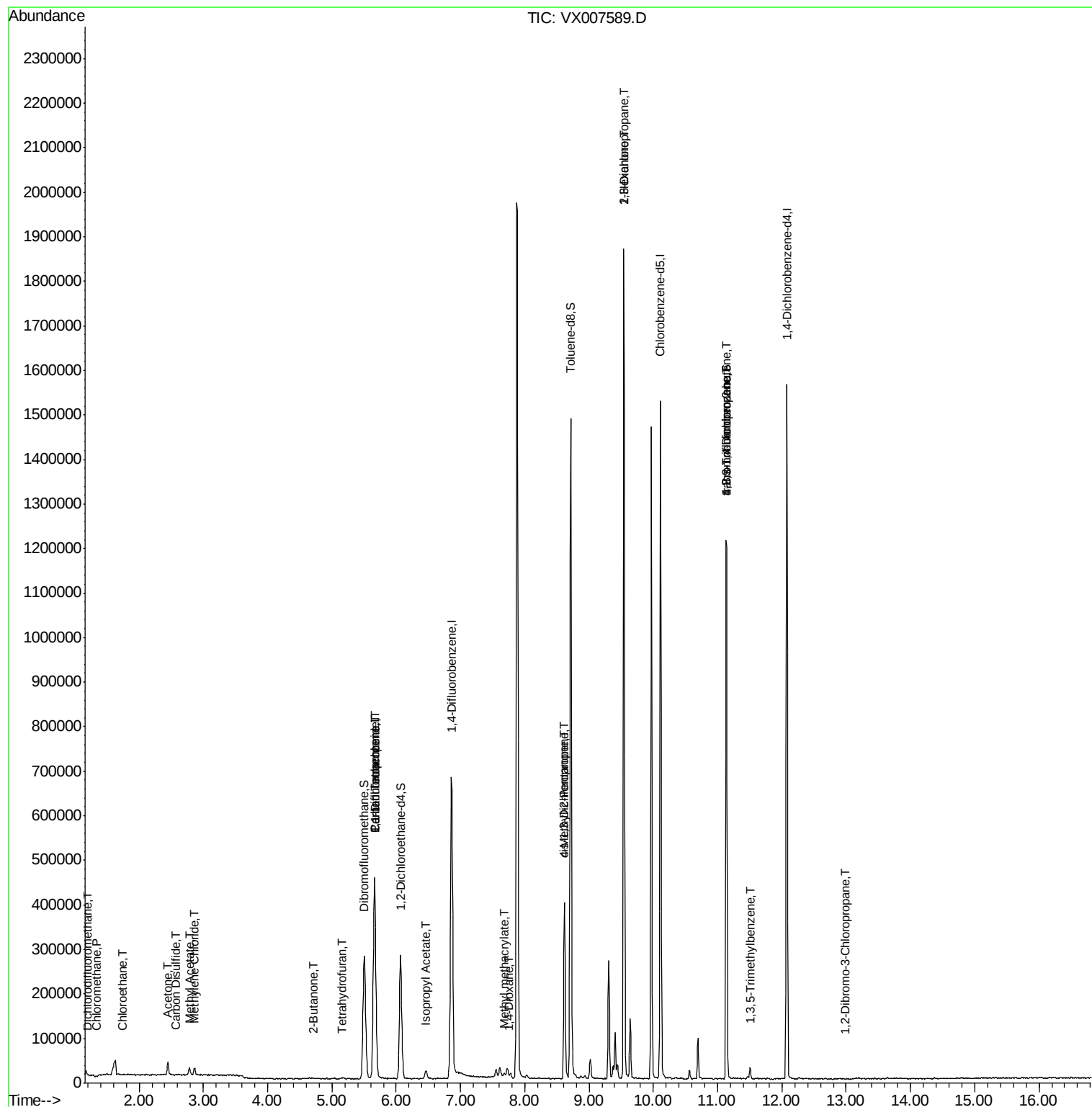
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.20	85	211	0.215 ug/l	99
3) Chloromethane	1.33	50	1289	0.249 ug/l #	85
5) Bromomethane	1.64	94	421	Below Cal #	76
6) Chloroethane	1.74	64	973	0.296 ug/l #	52
16) Acetone	2.45	43	30120	13.464 ug/l	99
17) Carbon Disulfide	2.57	76	769	2.185 ug/l #	79
18) Methyl Acetate	2.78	43	22585	4.422 ug/l	96
20) Methylene Chloride	2.86	84	7266	1.206 ug/l	98
25) 2-Butanone	4.71	43	3370	1.059 ug/l #	87
29) Tetrahydrofuran	5.16	42	928	0.463 ug/l #	67
36) 1,1-Dichloropropene	5.67	75	29403	4.544 ug/l #	49
38) Carbon Tetrachloride	5.67	117	41195	6.562 ug/l #	18
43) Isopropyl Acetate	6.46	43	25357	2.512 ug/l	96
48) Methyl methacrylate	7.68	41	12227	2.421 ug/l #	12
49) 1,4-Dioxane	7.76	88	86	7.622 ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	127570	19.194 ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	63613	9.155 ug/l #	63
57) 1,3-Dichloropropane	9.54	76	16071	1.971 ug/l #	47
59) 2-Hexanone	9.54	43	203765	39.398 ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	153208	23.533 ug/l #	32
80) 1,3,5-Trimethylbenzene	11.51	105	10718	0.576 ug/l	94
81) trans-1,4-Dichloro-2-buten	11.13	75	153208	70.814 ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	12.99	75	354	0.246 ug/l #	3

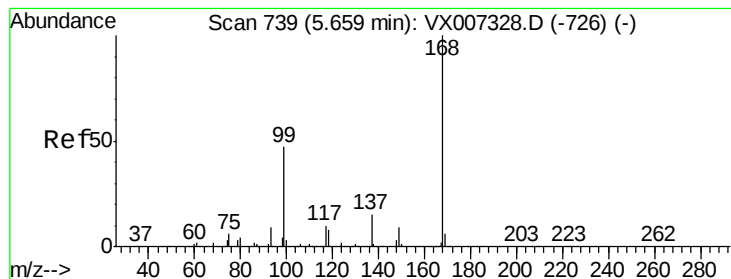
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

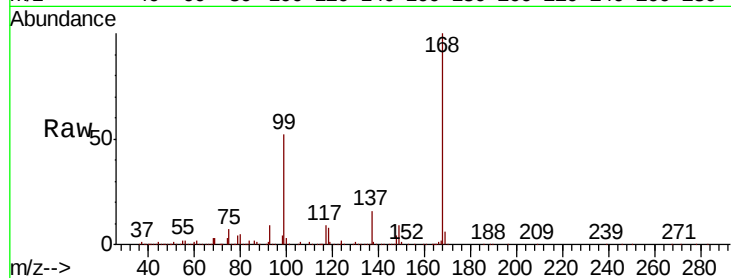
PB117159ZHE#20

Tgt Ion:168 Resp: 460091

Ion Ratio Lower Upper

168 100

99 51.4 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

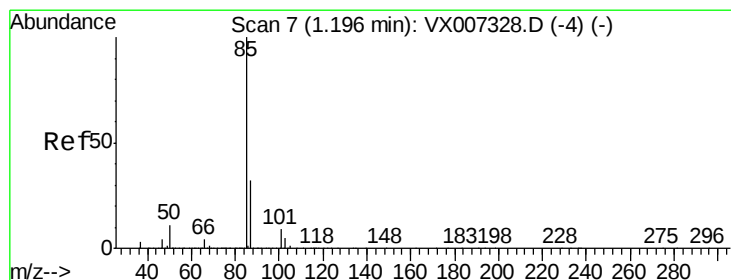
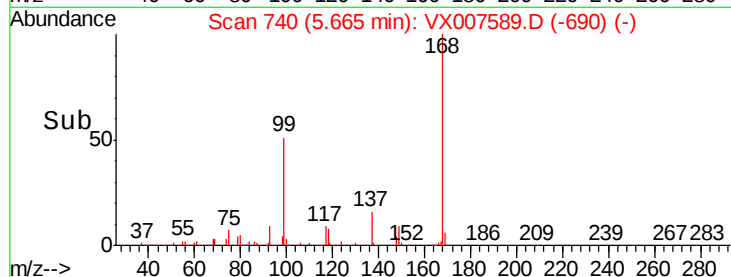
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.215 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007589.D

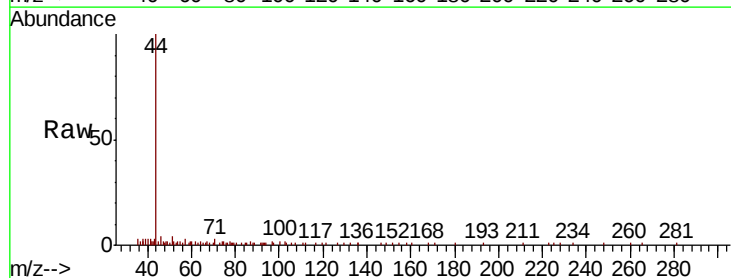
Acq: 18 Feb 2019 15:32

Tgt Ion: 85 Resp: 211

Ion Ratio Lower Upper

85 100

87 31.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

300

250

200

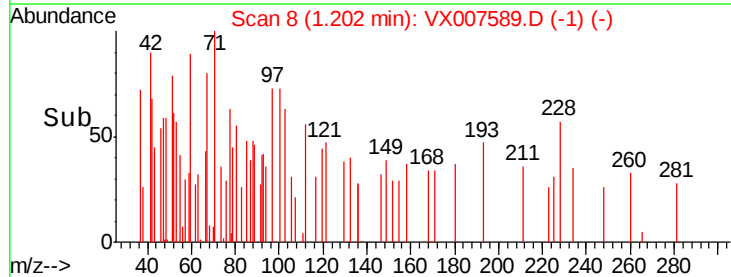
150

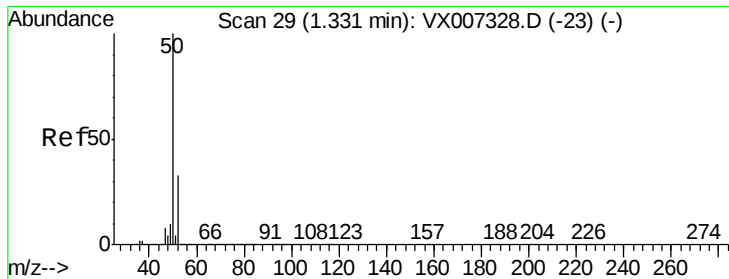
100

50

0

Time-->





#3

Chloromethane

Concen: 0.249 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

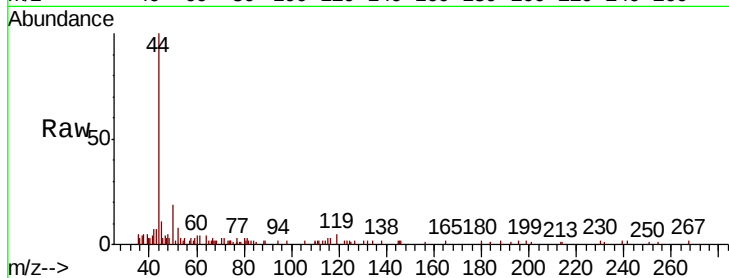
PB117159ZHE#20

Tgt Ion: 50 Resp: 1289

Ion Ratio Lower Upper

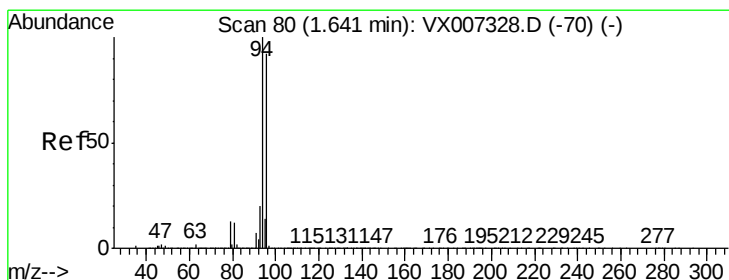
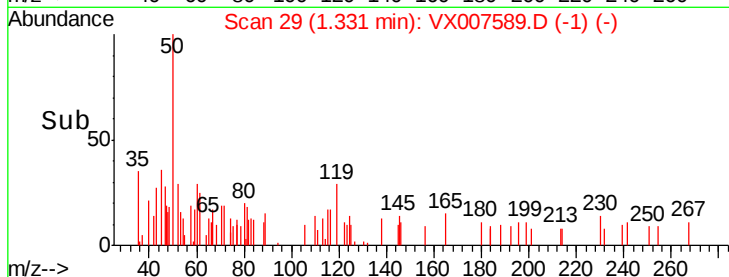
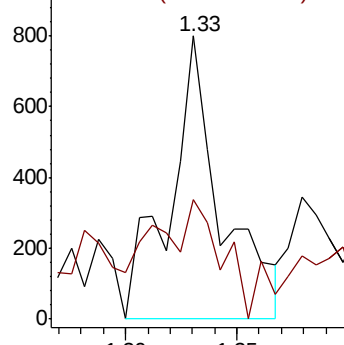
50 100

52 41.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX007589.D

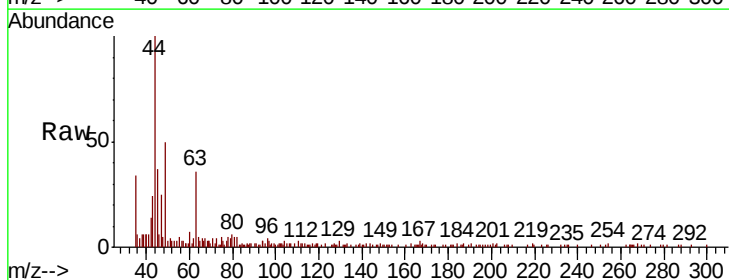
Acq: 18 Feb 2019 15:32

Tgt Ion: 94 Resp: 421

Ion Ratio Lower Upper

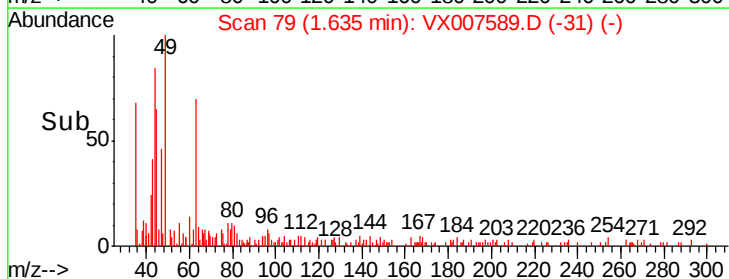
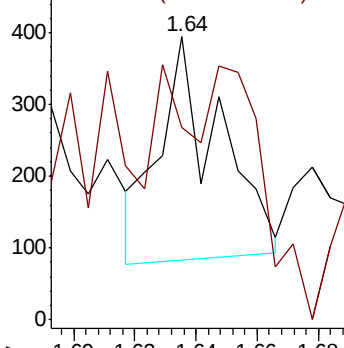
94 100

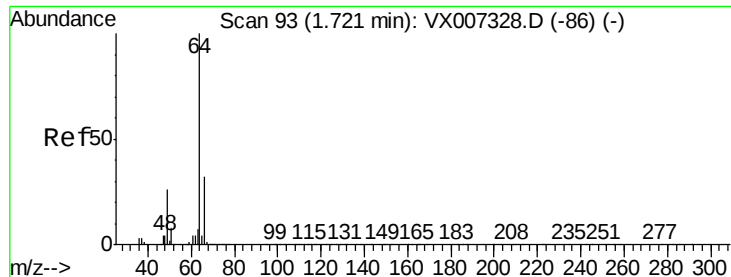
96 69.6 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.296 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

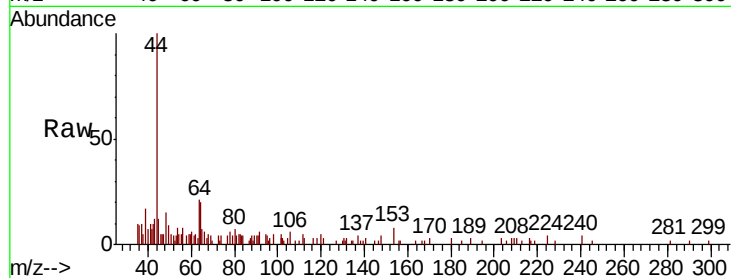
PB117159ZHE#20

Tgt Ion: 64 Resp: 973

Ion Ratio Lower Upper

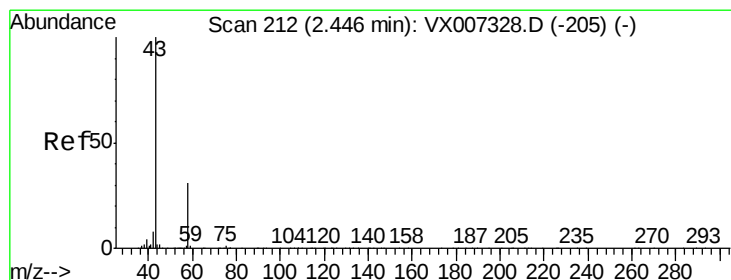
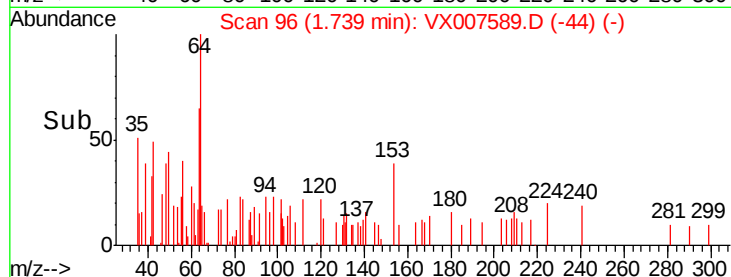
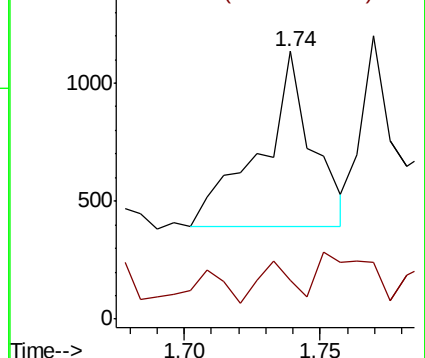
64 100

66 5.4 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#16

Acetone

Concen: 13.464 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007589.D

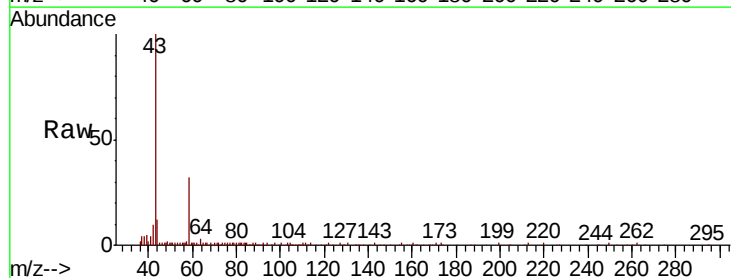
Acq: 18 Feb 2019 15:32

Tgt Ion: 43 Resp: 30120

Ion Ratio Lower Upper

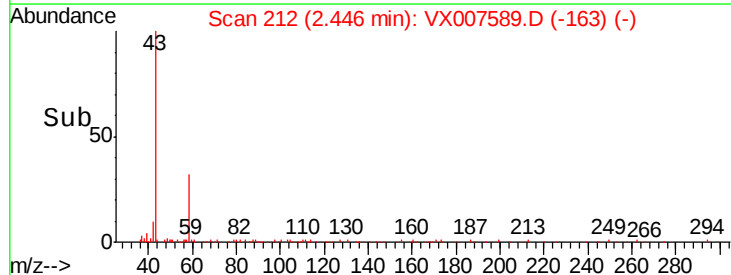
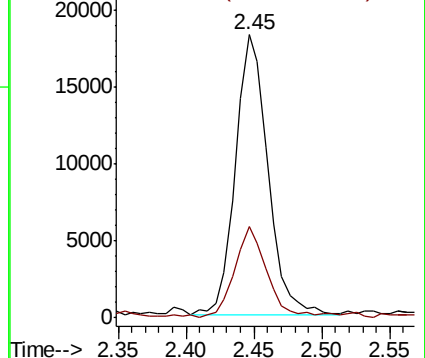
43 100

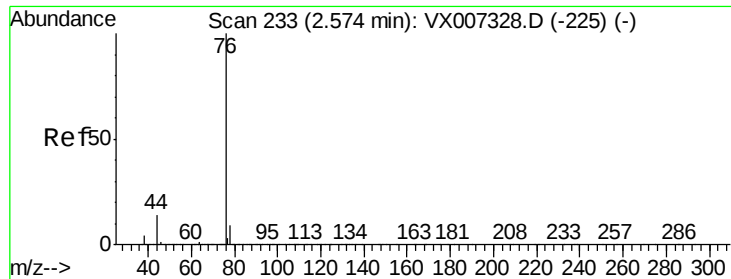
58 31.7 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 2.185 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

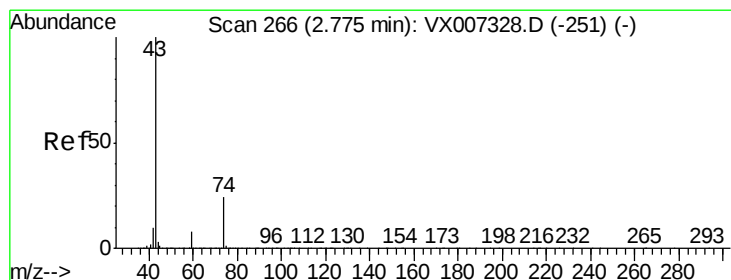
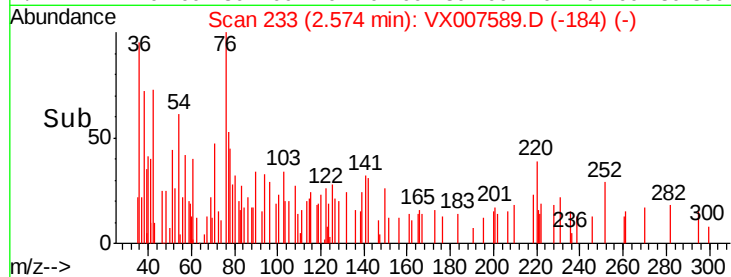
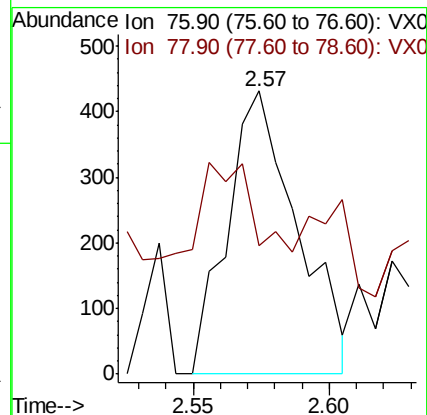
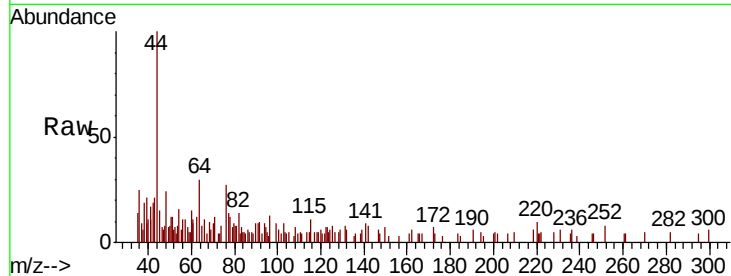
PB117159ZHE#20

Tgt Ion: 76 Resp: 769

Ion Ratio Lower Upper

76 100

78 1.2 7.1 10.7#



#18

Methyl Acetate

Concen: 4.422 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX007589.D

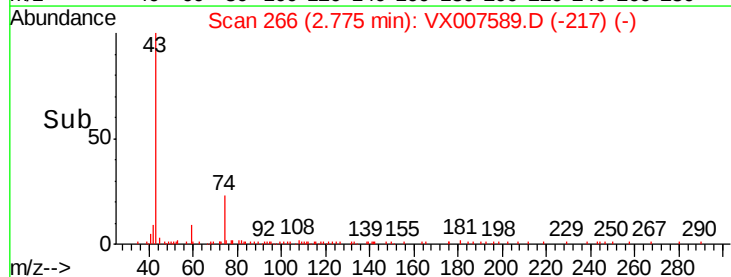
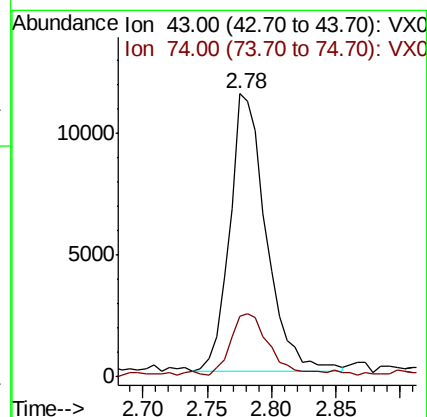
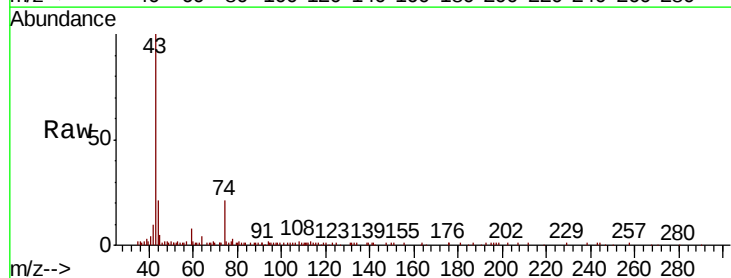
Acq: 18 Feb 2019 15:32

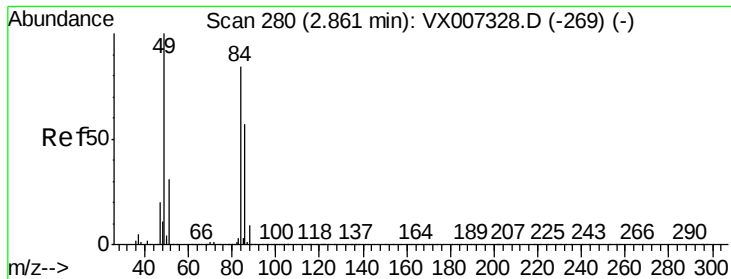
Tgt Ion: 43 Resp: 22585

Ion Ratio Lower Upper

43 100

74 22.5 19.4 29.2

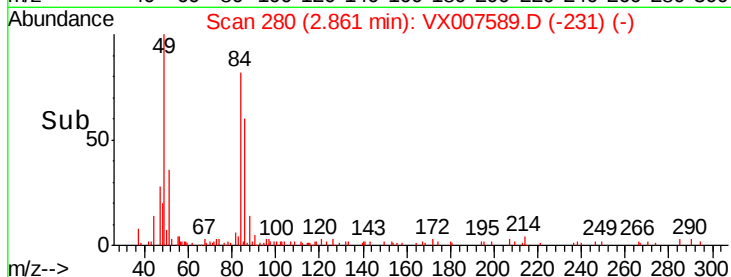
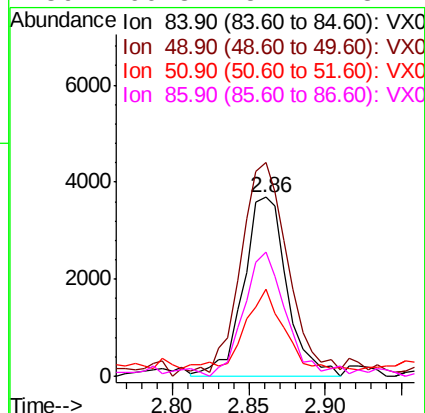
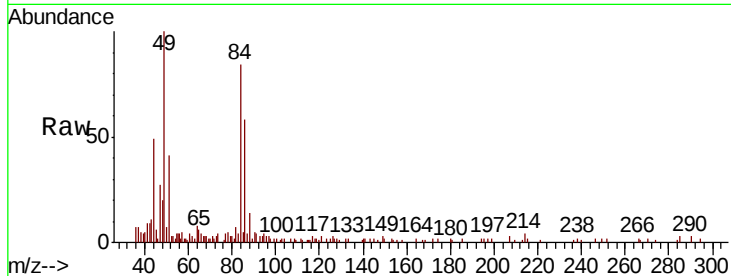




#20
Methylene Chloride
Concen: 1.206 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007589.D
Acq: 18 Feb 2019 15:32

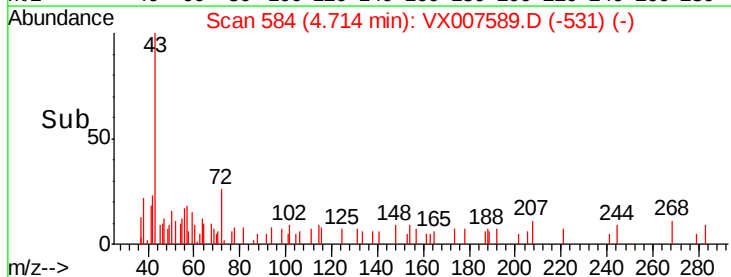
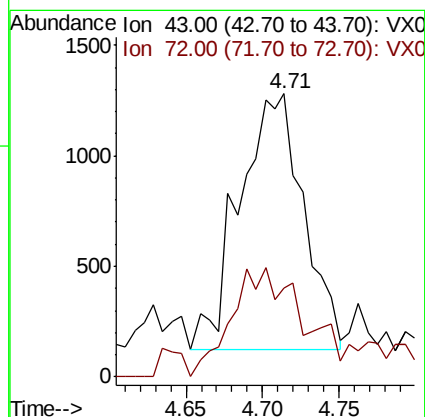
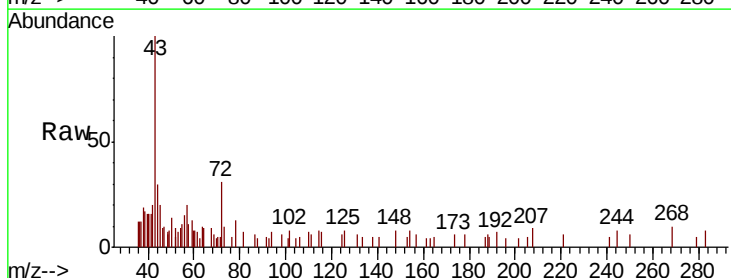
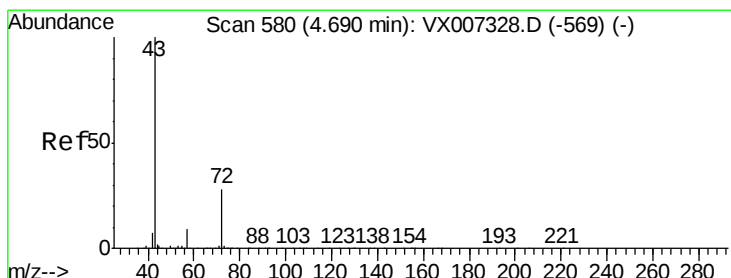
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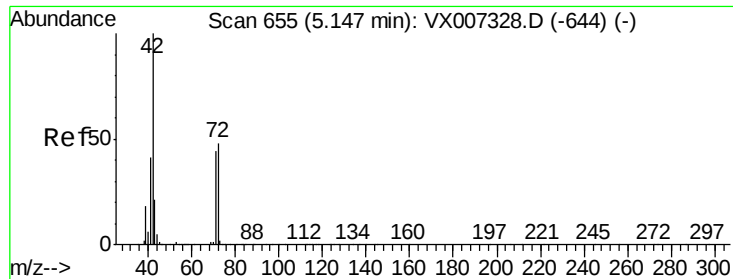
Tgt Ion:	84	Resp:	7266
Ion	Ratio	Lower	Upper
84	100		
49	118.5	94.8	142.2
51	42.7	29.8	44.8
86	66.3	54.1	81.1



#25
2-Butanone
Concen: 1.059 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.02 min
Lab File: VX007589.D
Acq: 18 Feb 2019 15:32

Tgt Ion:	43	Resp:	3370
Ion	Ratio	Lower	Upper
43	100		
72	34.7	22.2	33.2#

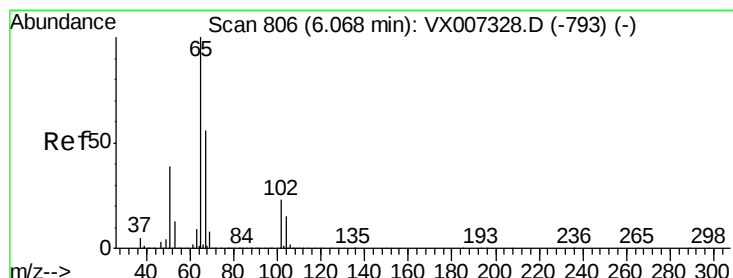
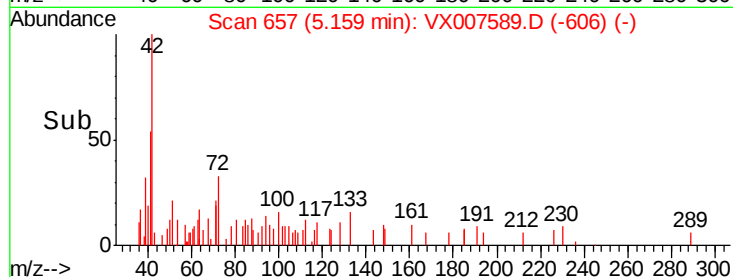
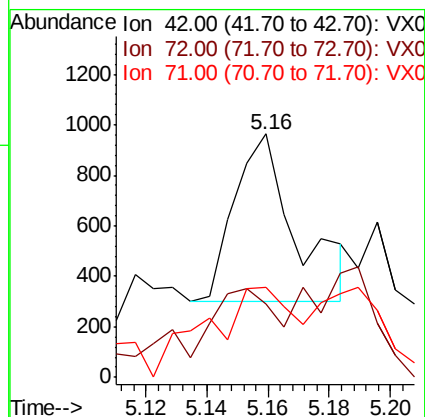
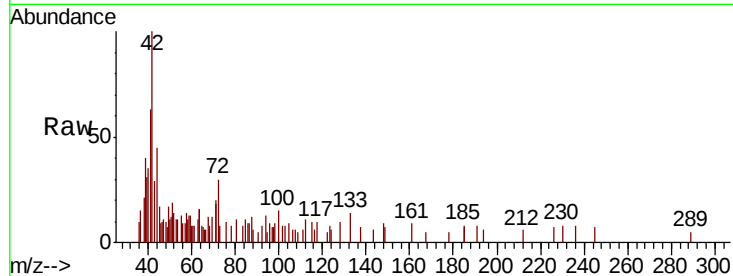




#29
Tetrahydrofuran
Concen: 0.463 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX007589.D
Acq: 18 Feb 2019 15:32

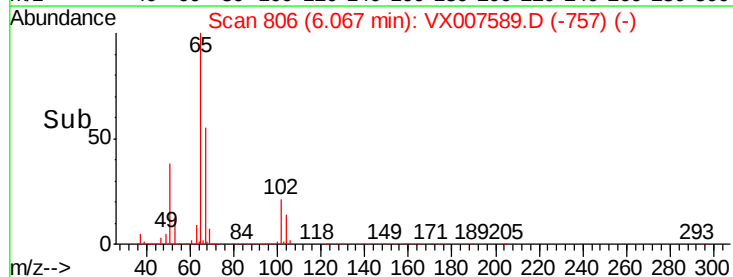
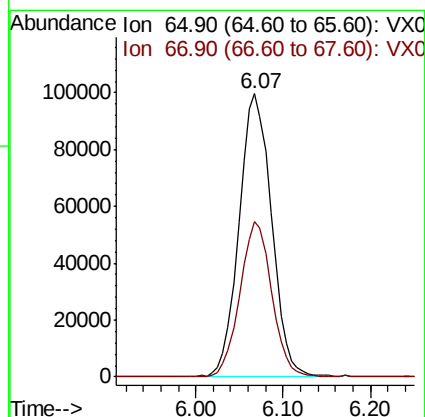
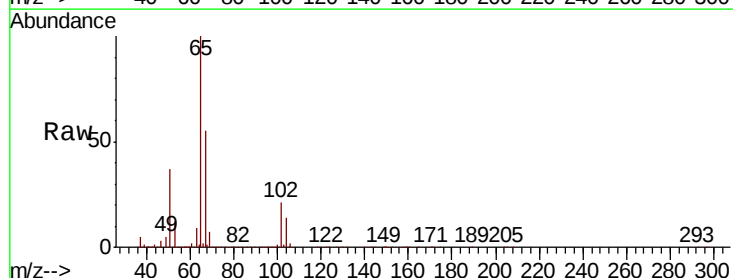
Instrument :
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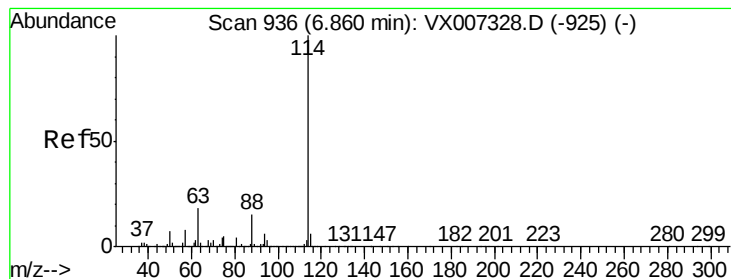
Tgt Ion: 42 Resp: 928
Ion Ratio Lower Upper
42 100
72 57.3 37.6 56.4#
71 76.5 34.6 51.8#



#33
1,2-Dichloroethane-d4
Concen: 52.845 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007589.D
Acq: 18 Feb 2019 15:32

Tgt Ion: 65 Resp: 258069
Ion Ratio Lower Upper
65 100
67 53.5 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: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#20

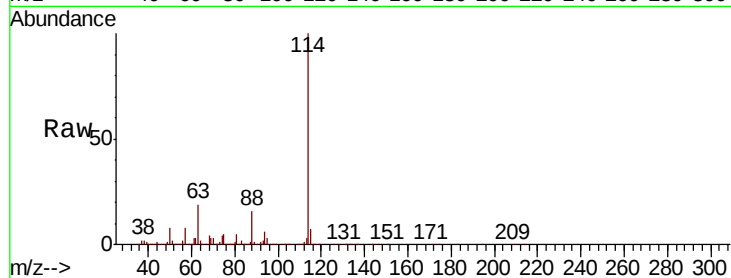
Tgt Ion:114 Resp: 721174

Ion Ratio Lower Upper

114 100

63 19.2 0.0 35.6

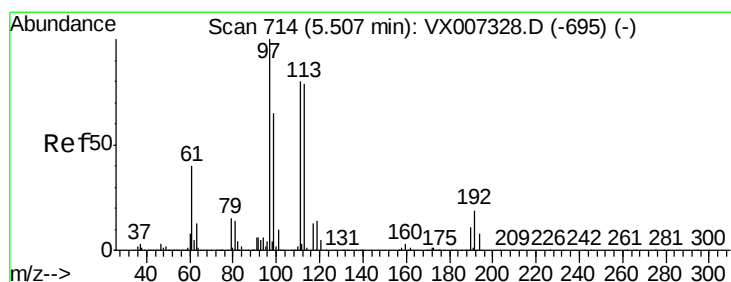
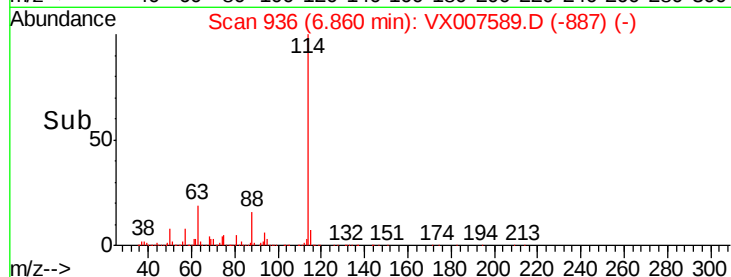
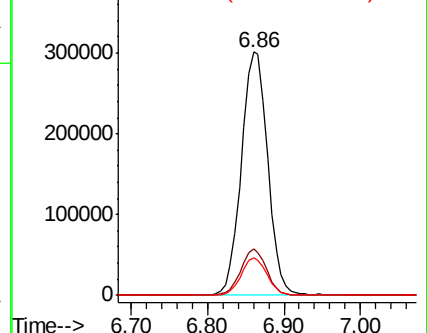
88 15.5 0.0 29.6



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: 50.770 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

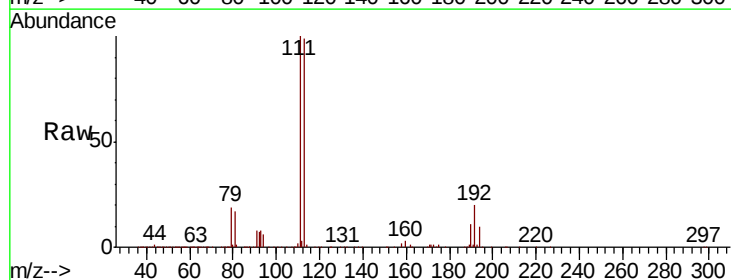
Tgt Ion:113 Resp: 238235

Ion Ratio Lower Upper

113 100

111 102.8 81.8 122.8

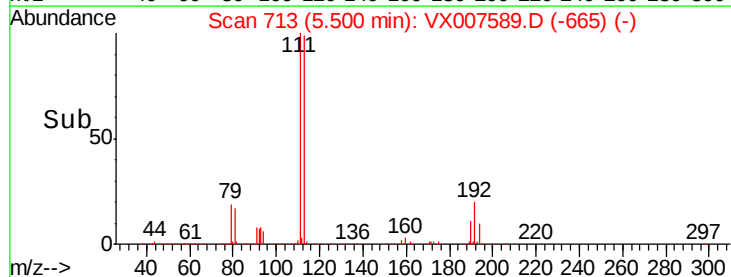
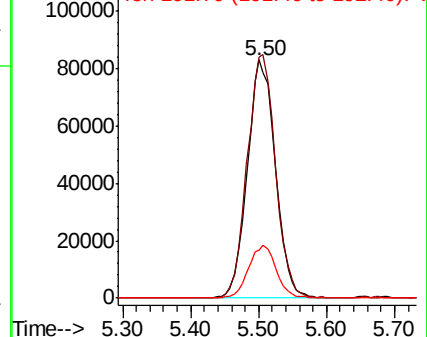
192 21.8 18.5 27.7

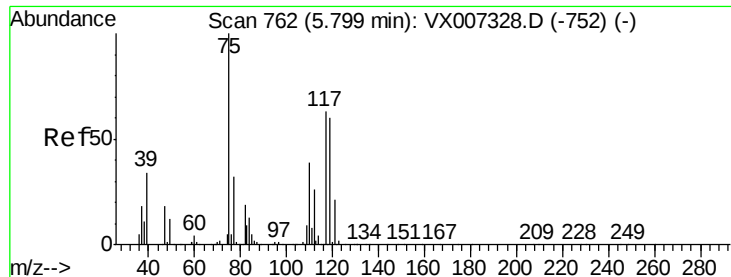


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.544 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#20

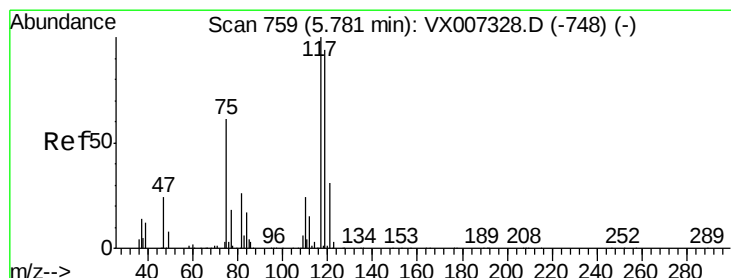
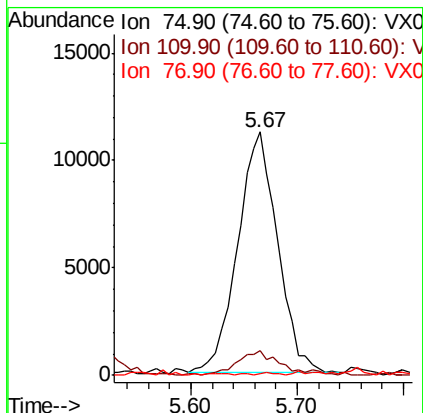
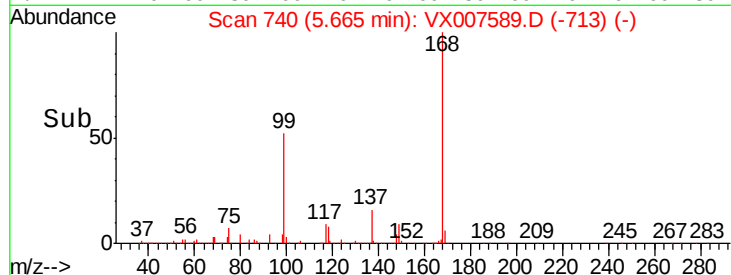
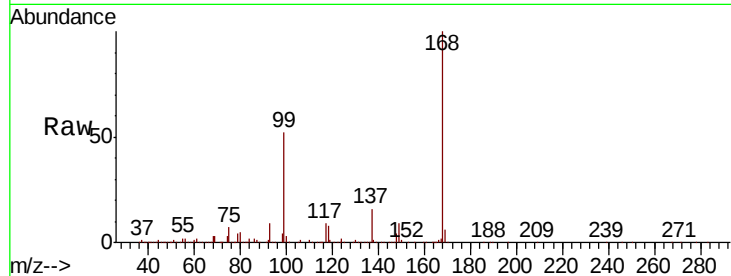
Tgt Ion: 75 Resp: 29403

Ion Ratio Lower Upper

75 100

110 10.3 20.0 59.9#

77 0.5 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.562 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

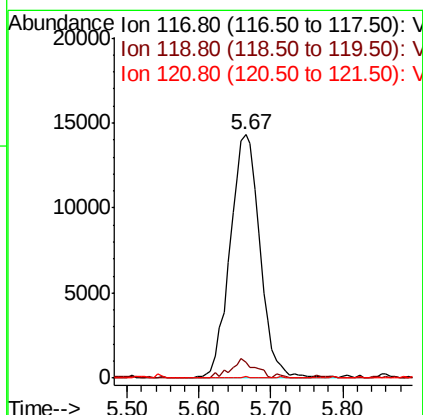
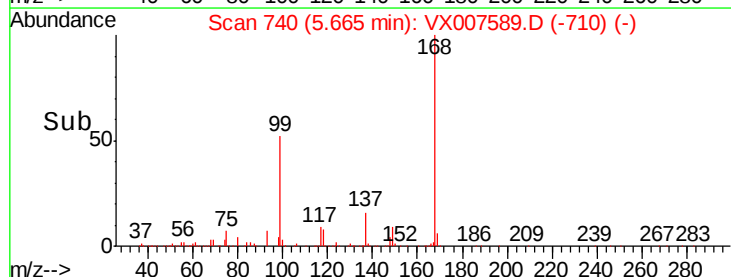
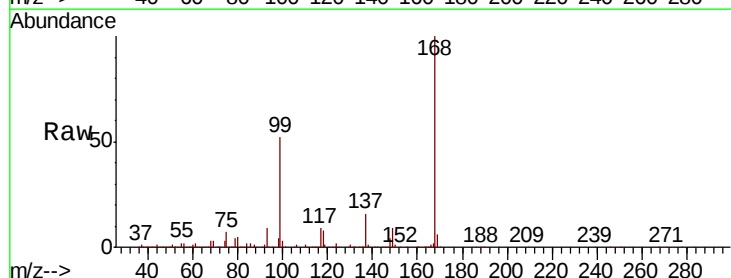
Tgt Ion: 117 Resp: 41195

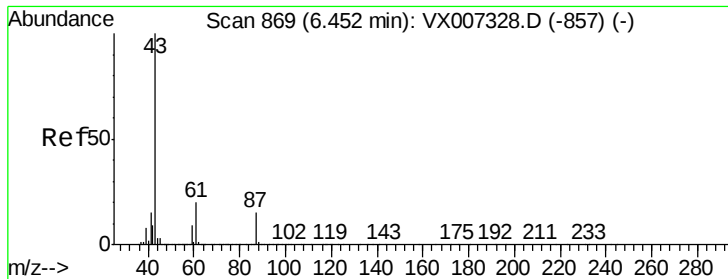
Ion Ratio Lower Upper

117 100

119 6.3 75.3 112.9#

121 0.6 25.0 37.4#





#43

Isopropyl Acetate

Concen: 2.512 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

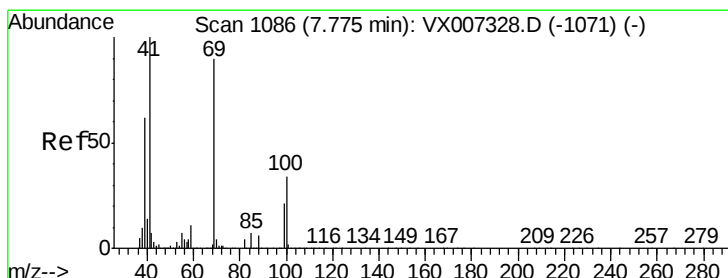
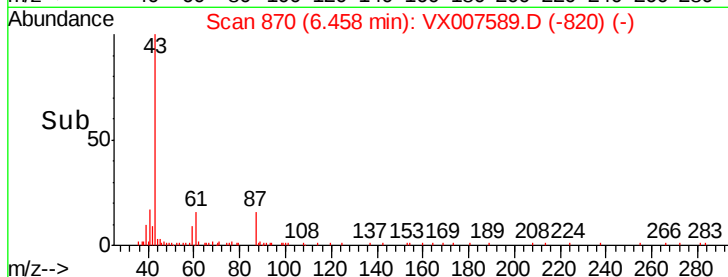
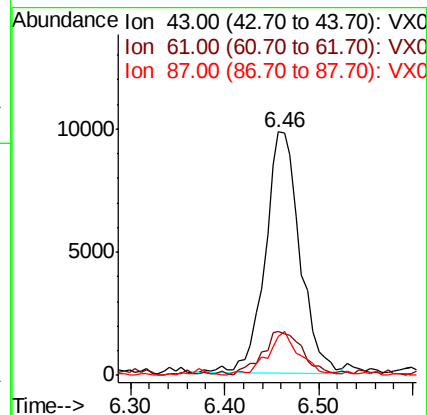
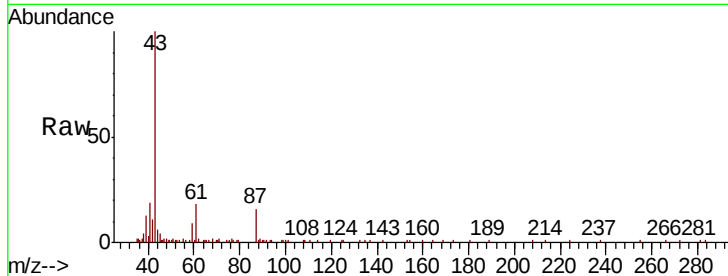
Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#20

Tgt Ion:	43	Resp:	25357
Ion	Ratio	Lower	Upper
43	100		
61	21.2	16.1	24.1
87	16.8	11.5	17.3



#48

Methyl methacrylate

Concen: 2.421 ug/l

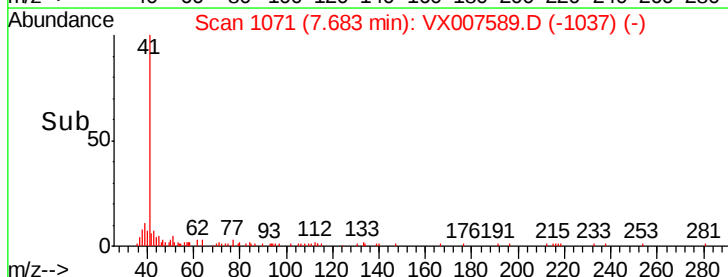
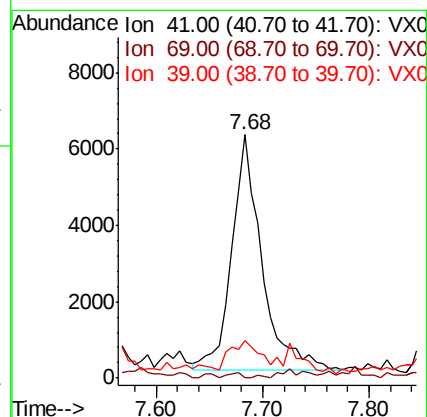
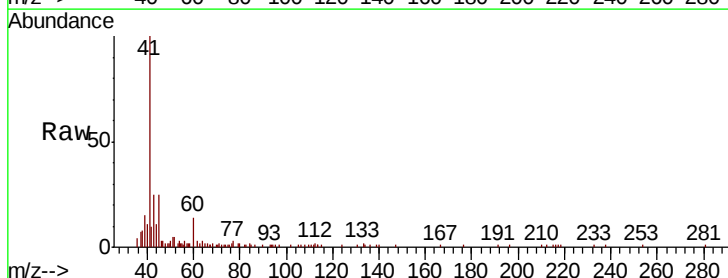
RT: 7.68 min Scan# 1071

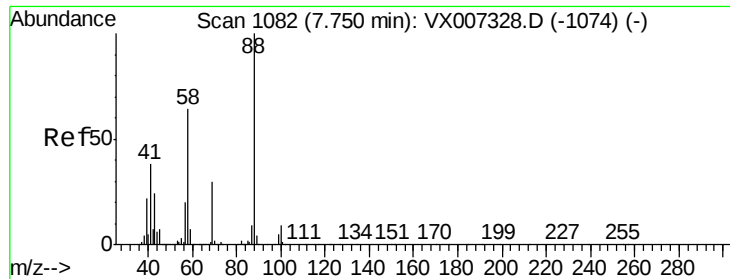
Delta R.T. -0.09 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Tgt Ion:	41	Resp:	12227
Ion	Ratio	Lower	Upper
41	100		
69	1.1	70.2	105.4#
39	0.0	47.4	71.0#

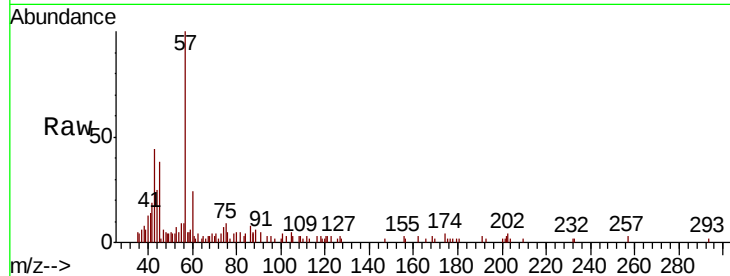




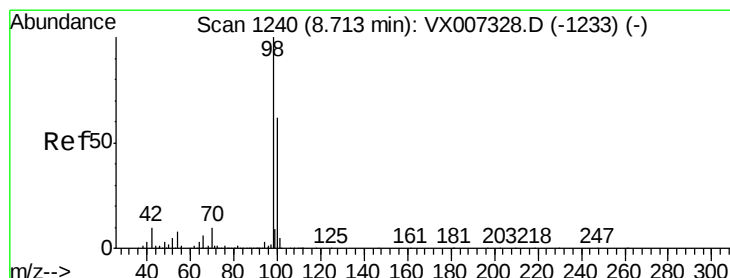
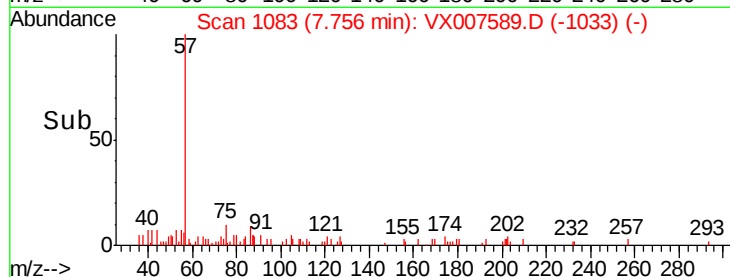
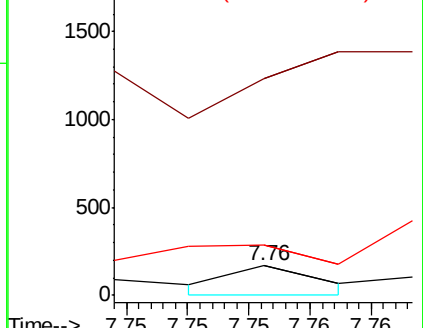
#49
1,4-Dioxane
Concen: 7.622 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007589.D
Acq: 18 Feb 2019 15:32

Instrument :
MSVOA_X
ClientSampleId :
PB117159ZHE#20

Tgt Ion: 88 Resp: 86
Ion Ratio Lower Upper
88 100
43 0.0 24.2 36.4#
58 0.0 53.0 79.4#

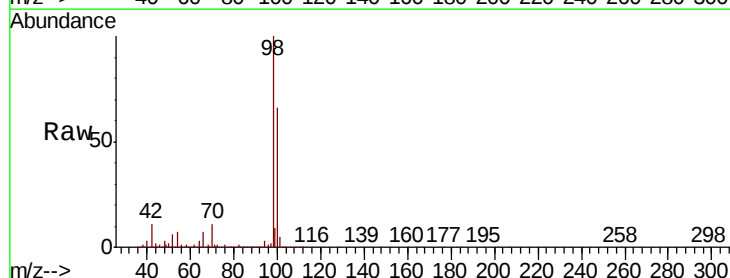


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

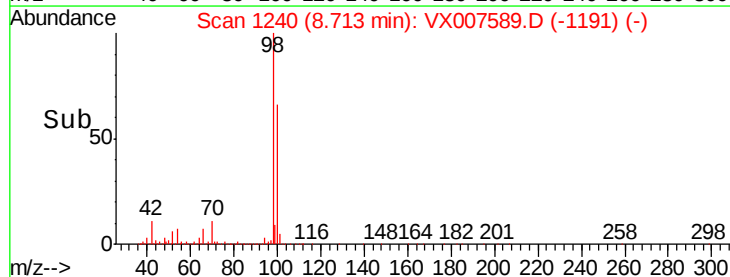
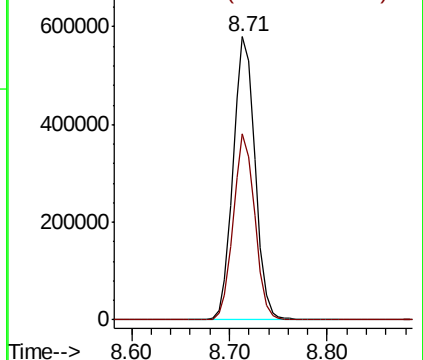


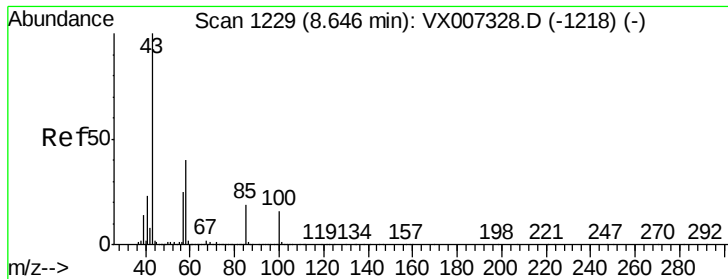
#50
Toluene-d8
Concen: 51.829 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007589.D
Acq: 18 Feb 2019 15:32

Tgt Ion: 98 Resp: 902328
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4



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





#51

4-Methyl-2-Pentanone

Concen: 19.194 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

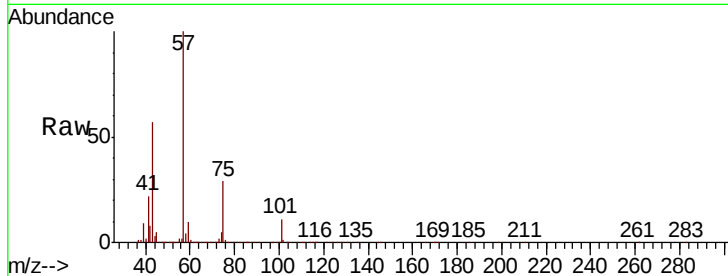
PB117159ZHE#20

Tgt Ion: 43 Resp: 127570

Ion Ratio Lower Upper

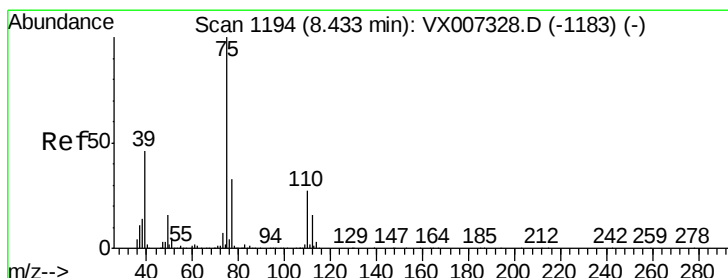
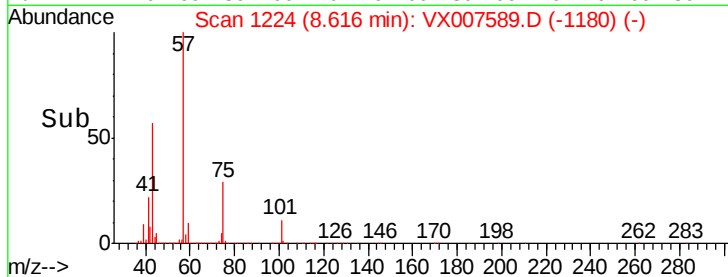
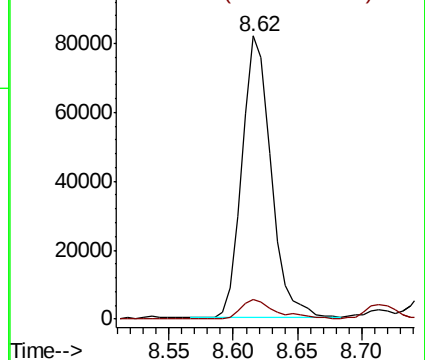
43 100

58 8.3 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: 9.155 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

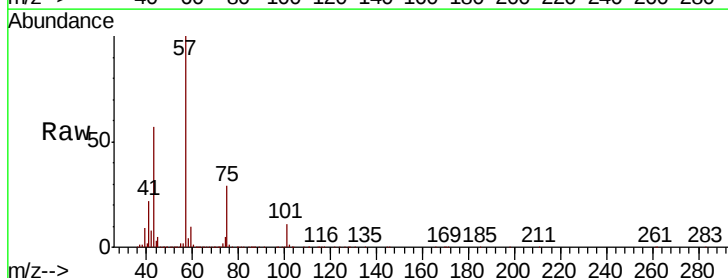
Tgt Ion: 75 Resp: 63613

Ion Ratio Lower Upper

75 100

77 0.9 26.2 39.4#

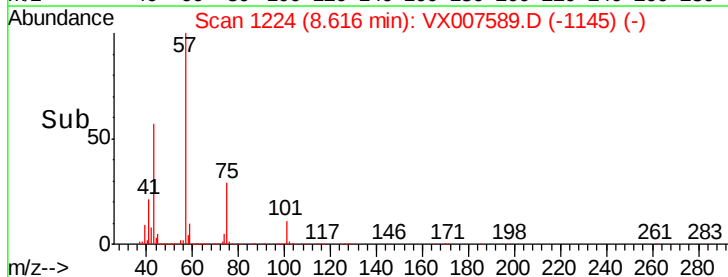
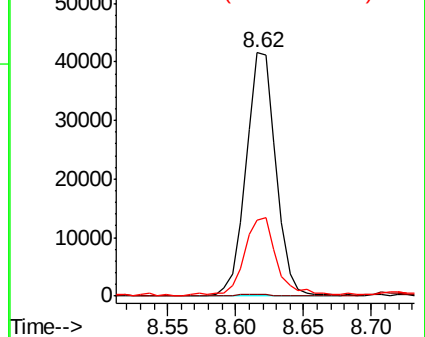
39 30.8 37.1 55.7#

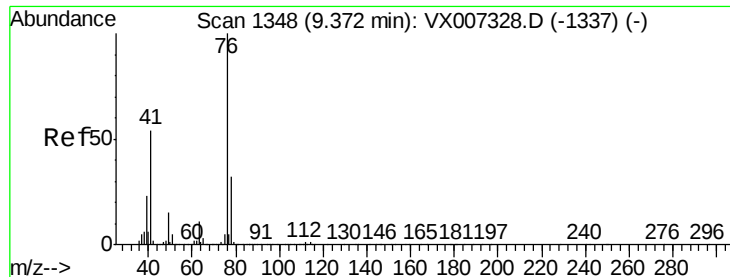


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.971 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

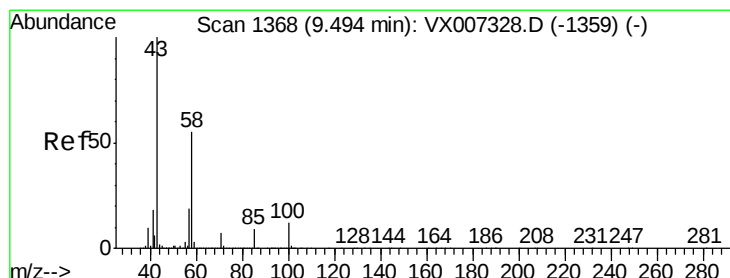
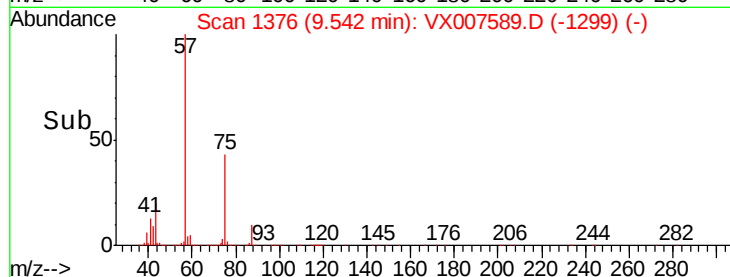
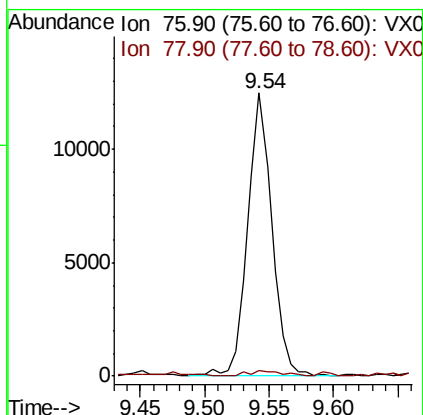
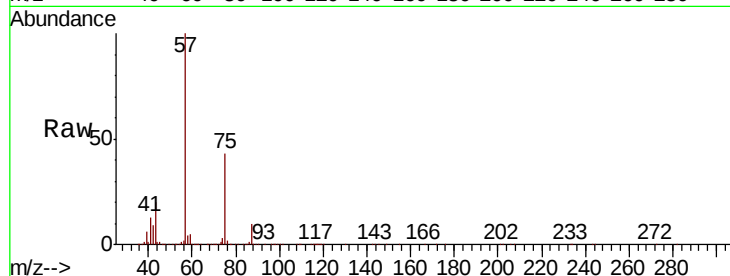
PB117159ZHE#20

Tgt Ion: 76 Resp: 16071

Ion Ratio Lower Upper

76 100

78 2.7 25.8 38.8#



#59

2-Hexanone

Concen: 39.398 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007589.D

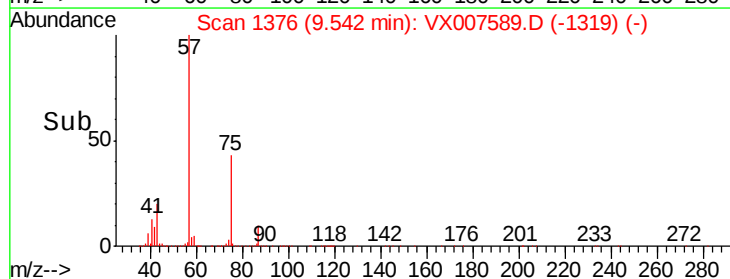
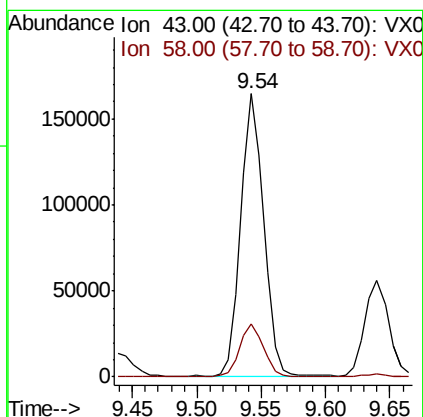
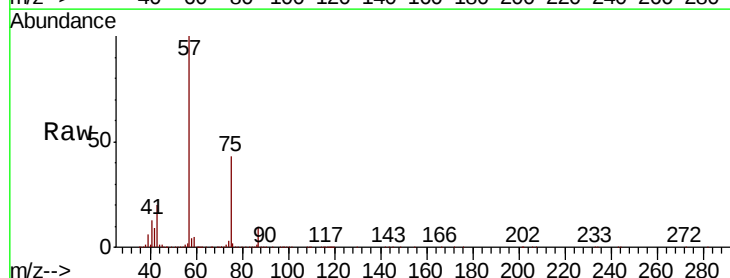
Acq: 18 Feb 2019 15:32

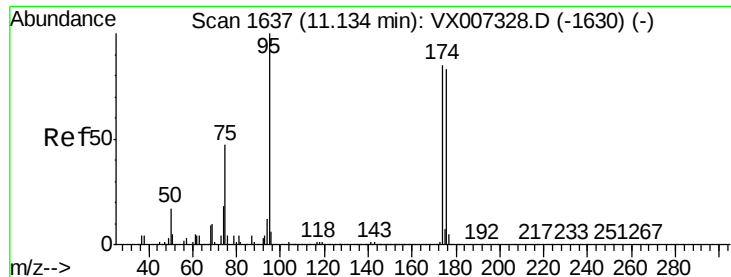
Tgt Ion: 43 Resp: 203765

Ion Ratio Lower Upper

43 100

58 19.6 27.1 81.3#





#62

4-Bromofluorobenzene

Concen: 49.971 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#20

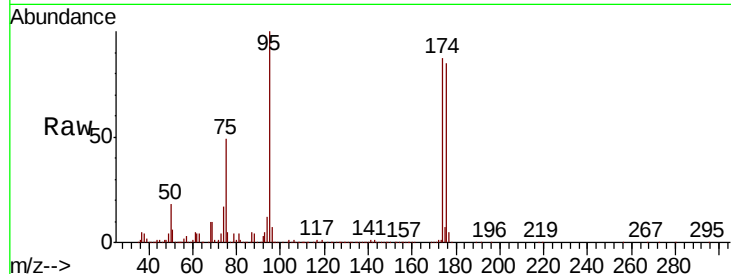
Tgt Ion: 95 Resp: 317628

Ion Ratio Lower Upper

95 100

174 92.0 0.0 189.2

176 89.9 0.0 186.2

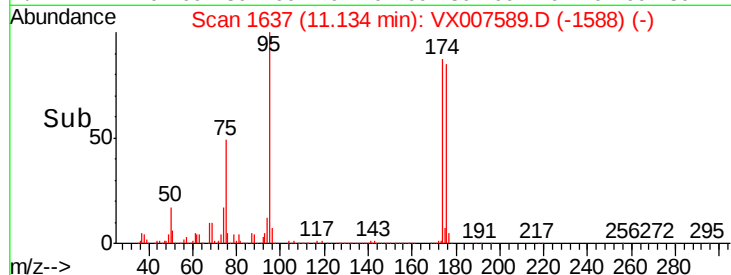


Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

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

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

Time-->



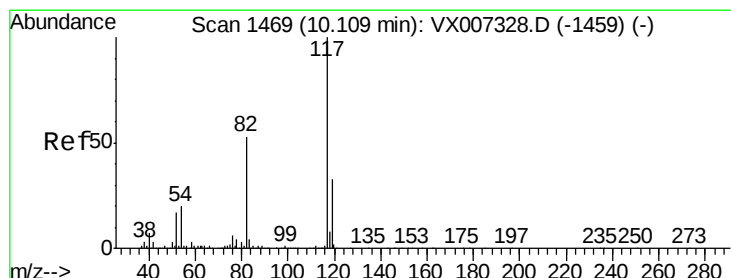
Abundance

Ion 94.90 (94.60 to 95.60): VX007589.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX007589.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX007589.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

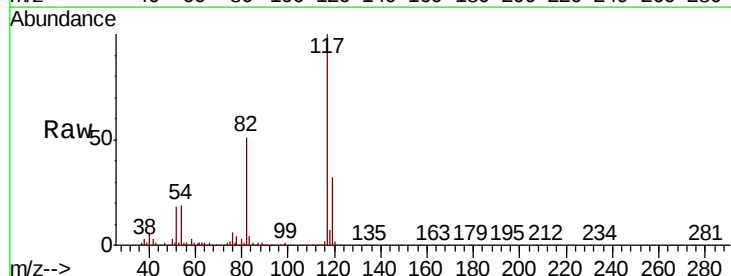
Tgt Ion: 117 Resp: 714414

Ion Ratio Lower Upper

117 100

82 50.5 42.1 63.1

119 31.9 26.5 39.7

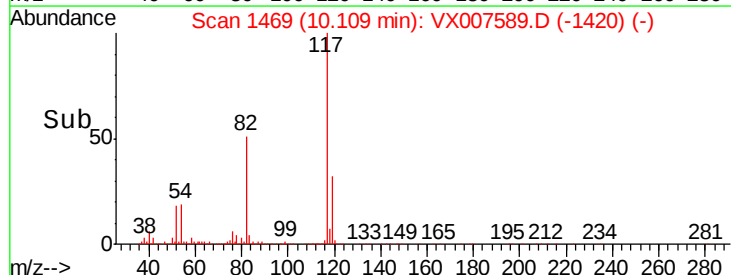


Abundance Ion 116.90 (116.60 to 117.60): VX007328.D (-1459) (-)

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

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

Time-->



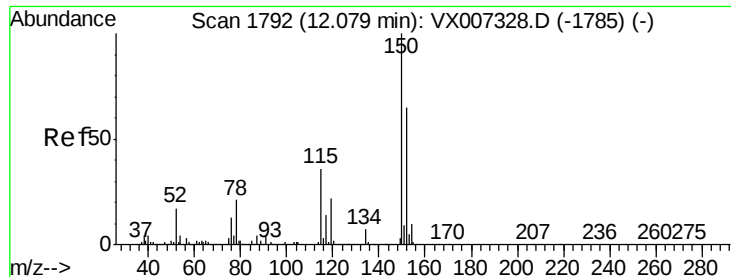
Abundance

Ion 116.90 (116.60 to 117.60): VX007589.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX007589.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX007589.D (-1420) (-)

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: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#20

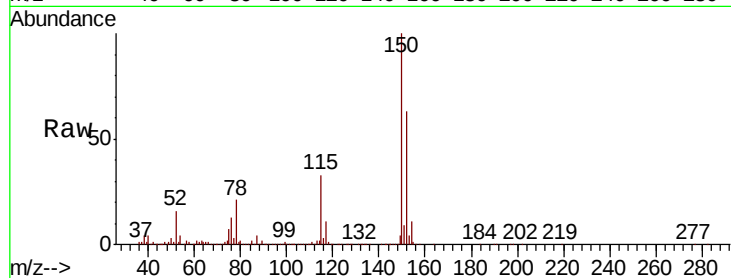
Tgt Ion: 152 Resp: 334707

Ion Ratio Lower Upper

152 100

115 54.6 38.0 114.0

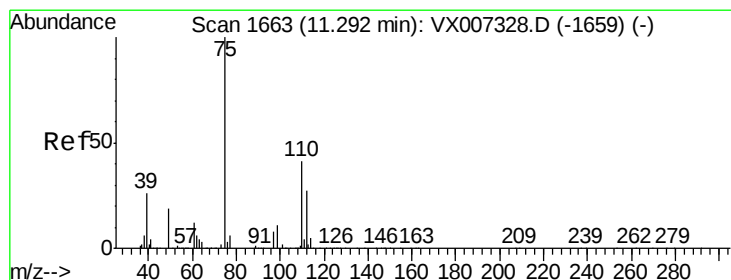
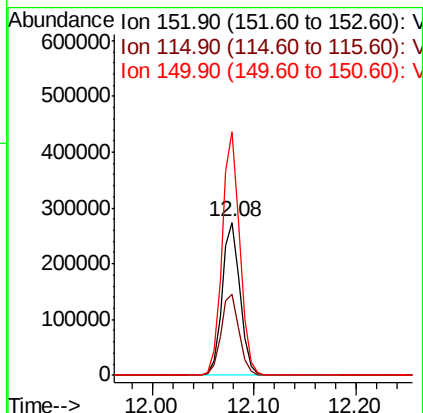
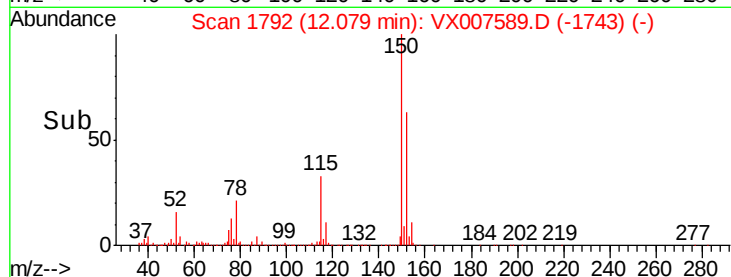
150 157.3 0.0 346.4



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: 23.533 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007589.D

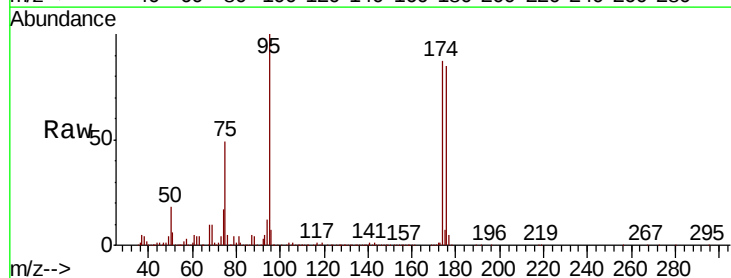
Acq: 18 Feb 2019 15:32

Tgt Ion: 75 Resp: 153208

Ion Ratio Lower Upper

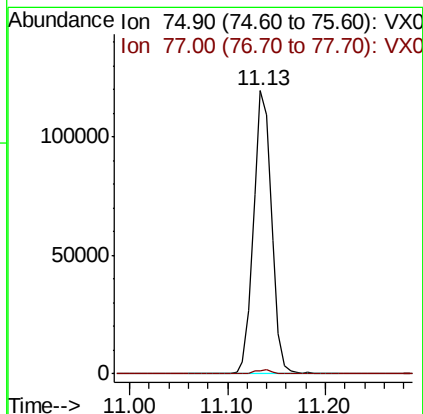
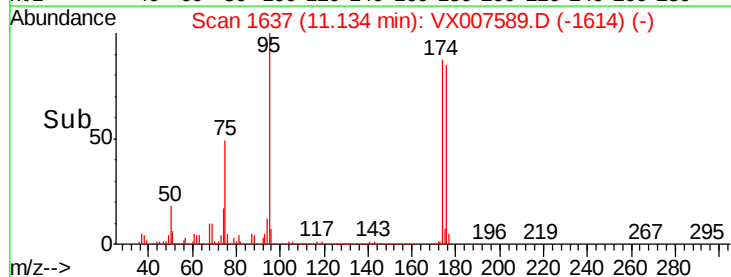
75 100

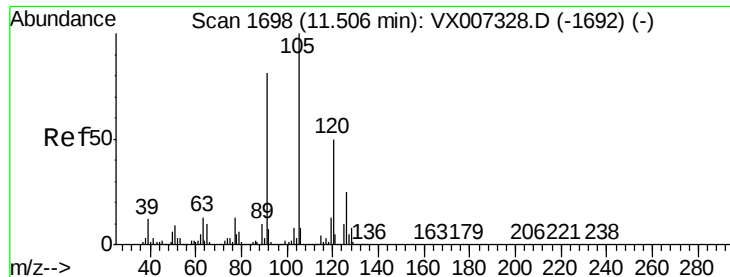
77 1.4 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.576 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

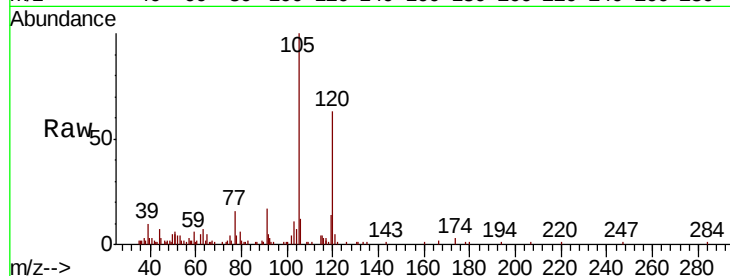
PB117159ZHE#20

Tgt Ion: 105 Resp: 10718

Ion Ratio Lower Upper

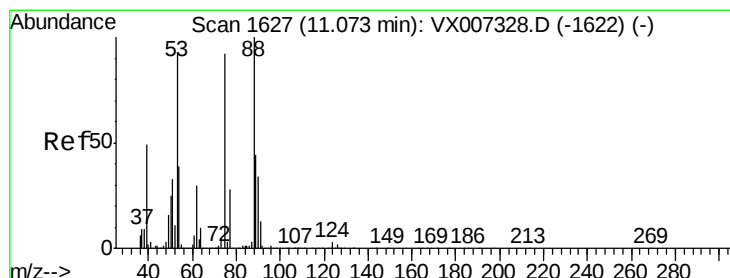
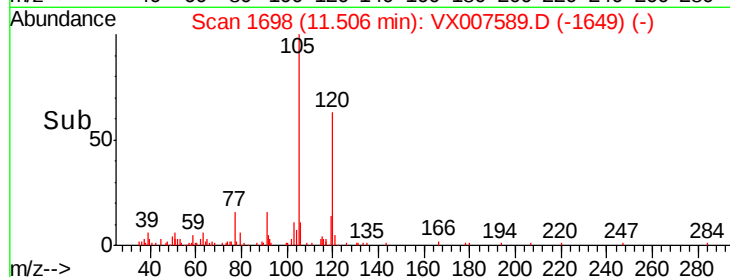
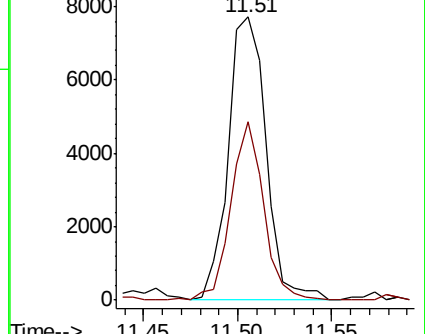
105 100

120 54.9 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 70.814 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

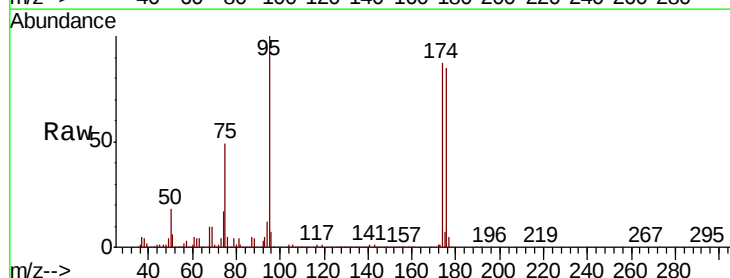
Tgt Ion: 75 Resp: 153208

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

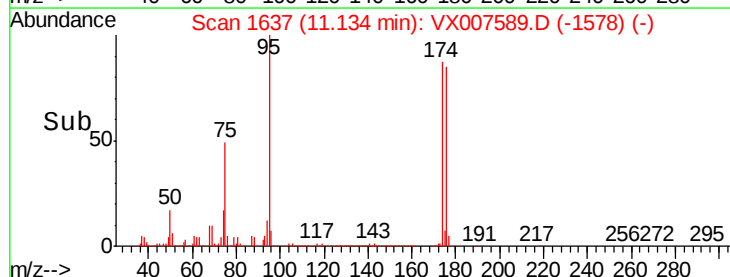
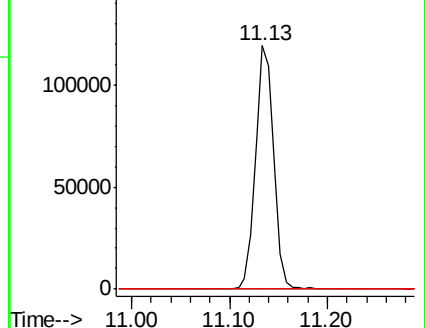
89 0.1 41.4 62.0#

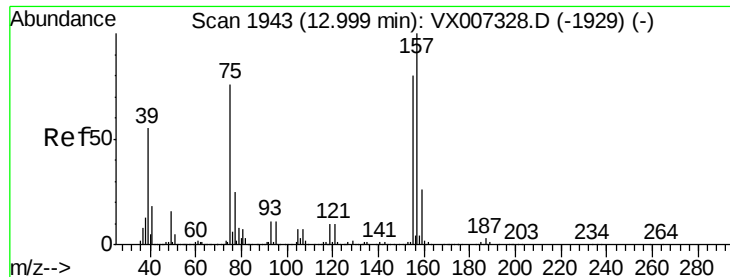


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.246 ug/l

RT: 12.99 min Scan# 1942

Delta R.T. -0.01 min

Lab File: VX007589.D

Acq: 18 Feb 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#20

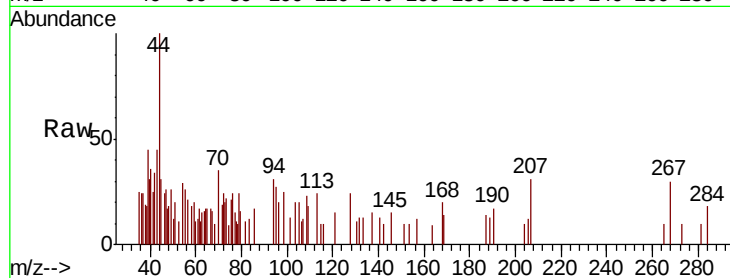
Tgt Ion: 75 Resp: 354

Ion Ratio Lower Upper

75 100

155 7.6 49.6 149.0#

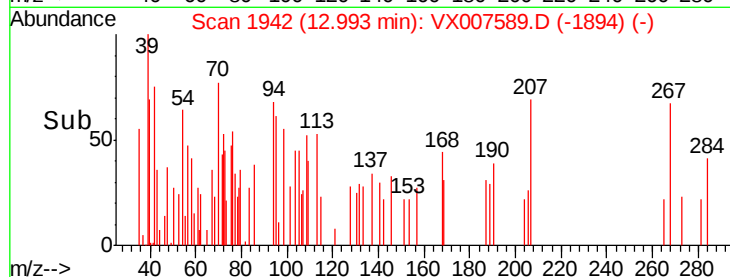
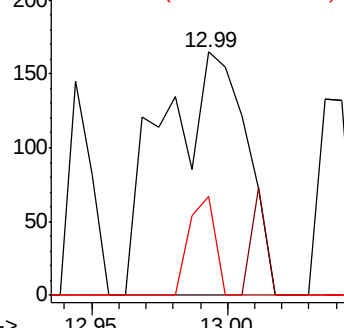
157 12.4 65.1 195.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->