

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101918\
 Data File : PE2.D
 Acq On : 19 Oct 2018 19:13
 Operator : JC/MD
 Sample : J5026-04 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

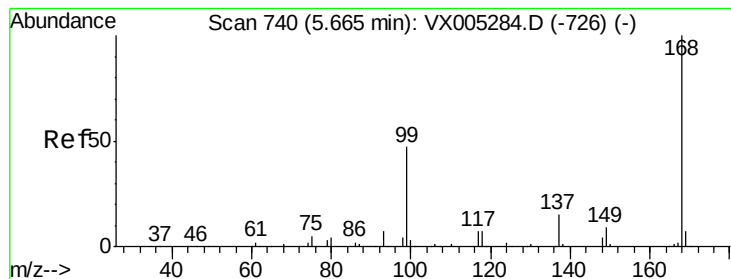
Quant Time: Oct 20 05:39:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	242352	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	365334	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	311036	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	156245	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	1330	0.49	ug/l	0.00
Spiked Amount			Recovery	=	0.98%	
35) Dibromofluoromethane	5.50	113	888	0.37	ug/l	0.00
Spiked Amount			Recovery	=	0.74%	
50) Toluene-d8	8.72	98	2308	0.28	ug/l	0.00
Spiked Amount			Recovery	=	0.56%	
62) 4-Bromofluorobenzene	11.14	95	688	0.22	ug/l	0.00
Spiked Amount			Recovery	=	0.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	583	0.951	ug/l #	67
6) Chloroethane	1.70	64	59	0.367	ug/l #	44
10) Methyl Iodide	2.51	142	272	2.599	ug/l #	79
13) Acrolein	2.29	56	119	Below Cal	#	16
15) Acrylonitrile	3.16	53	347	0.202	ug/l #	30
16) Acetone	2.45	43	1013	0.651	ug/l #	80
20) Methylene Chloride	2.86	84	1054	Below Cal	#	80
28) Bromochloromethane	5.21	49	4332	2.118	ug/l #	9
30) Chloroform	5.21	83	52475	12.603	ug/l	99
31) Cyclohexane	5.66	56	4350	1.177	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16368	4.626	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21718	6.109	ug/l #	16
46) Dibromomethane	7.90	93	655	0.381	ug/l #	1
47) Bromodichloromethane	7.90	83	22287	7.012	ug/l	98
60) Dibromochloromethane	9.59	129	26254	10.327	ug/l	100
71) Bromoform	10.86	173	19427	9.221	ug/l #	99
81) trans-1,4-Dichloro-2-buten	11.14	75	371	0.372	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

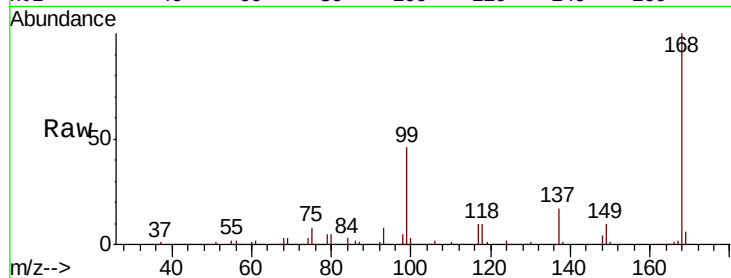
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 242352

Ion Ratio Lower Upper

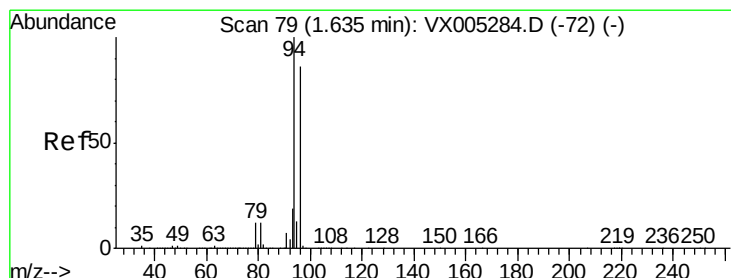
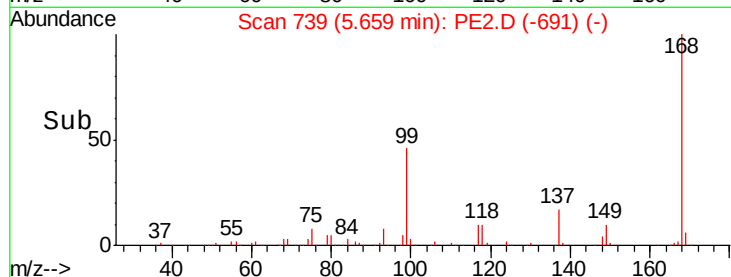
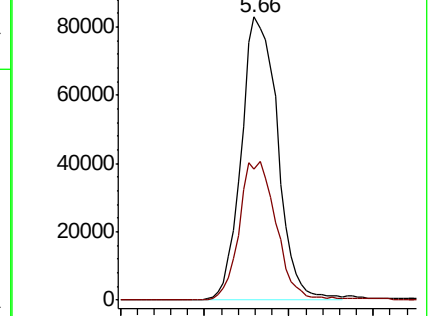
168 100

99 46.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): F

Ion 98.90 (98.60 to 99.60): PE2



#5

Bromomethane

Concen: 0.951 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: PE2.D

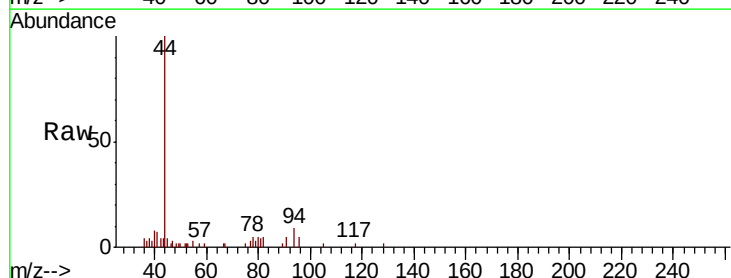
Acq: 19 Oct 2018 19:13

Tgt Ion: 94 Resp: 583

Ion Ratio Lower Upper

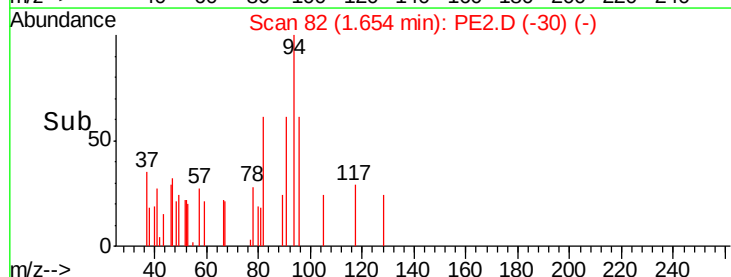
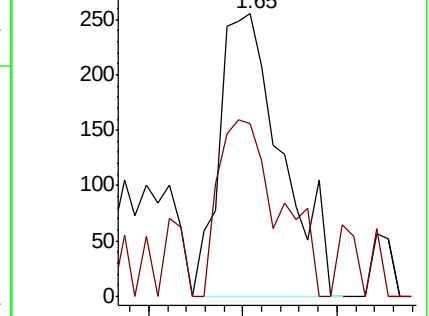
94 100

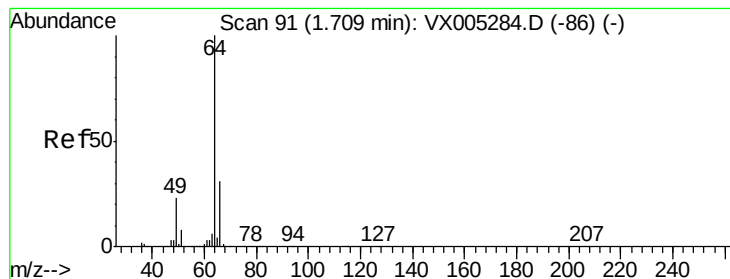
96 61.2 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): PE2

Ion 95.90 (95.60 to 96.60): PE2





#6

Chloroethane

Concen: 0.367 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.01 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

Instrument :

MSVOA_X

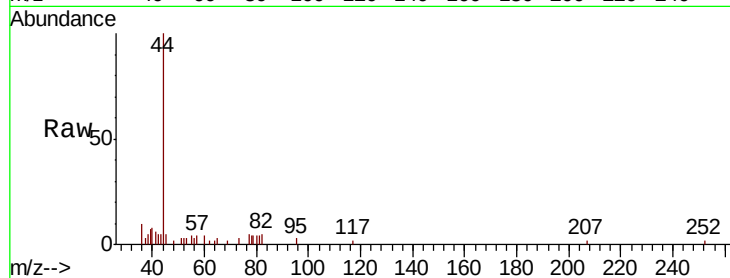
ClientSampled :

Tot Ion: 64 Resp: 59

Ion Ratio Lower Upper

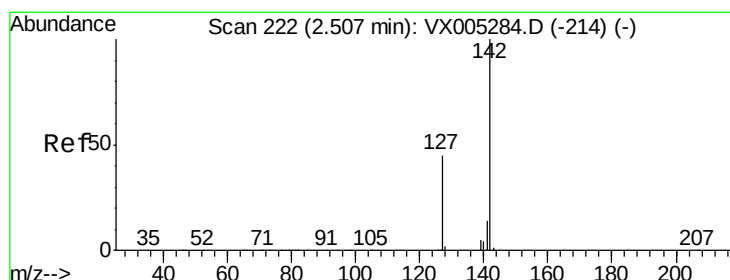
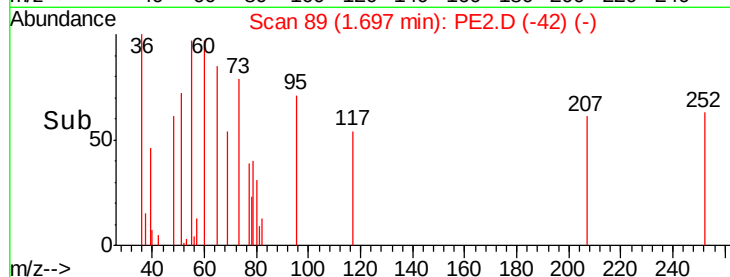
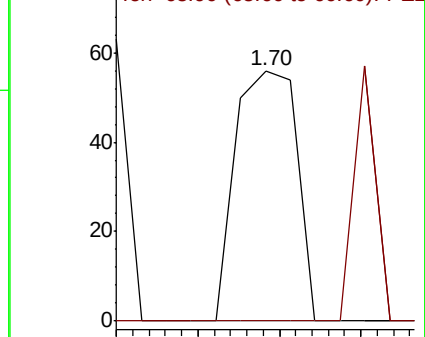
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): PE2

Ion 65.90 (65.60 to 66.60): PE2



#10

Methyl Iodide

Concen: 2.599 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

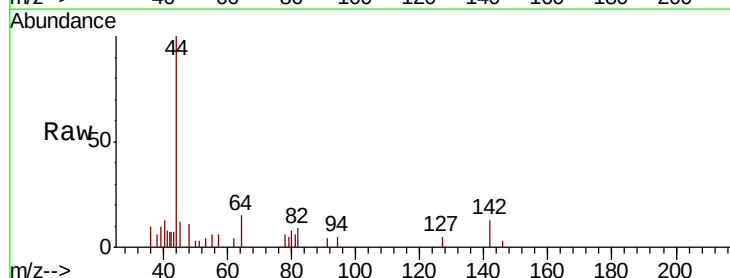
Tgt Ion: 142 Resp: 272

Ion Ratio Lower Upper

142 100

127 31.6 33.8 50.6#

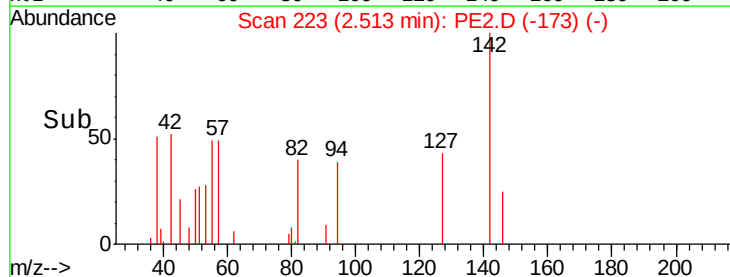
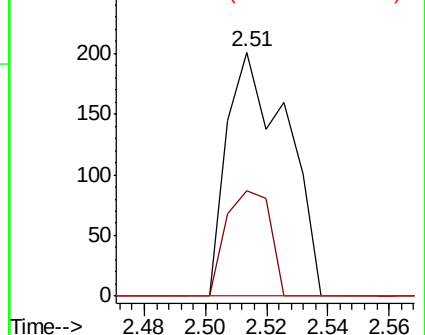
141 0.0 11.4 17.0#

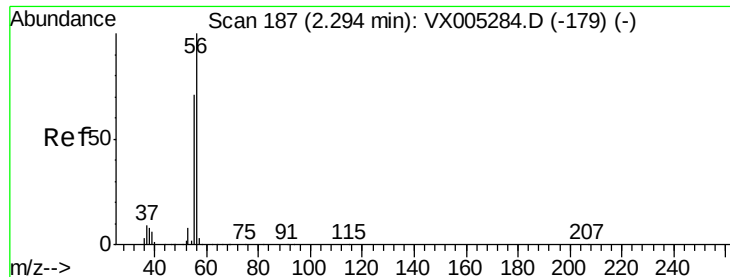


Abundance Ion 141.80 (141.50 to 142.50): F

Ion 126.80 (126.50 to 127.50): F

Ion 140.80 (140.50 to 141.50): F





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

Instrument :

MSVOA_X

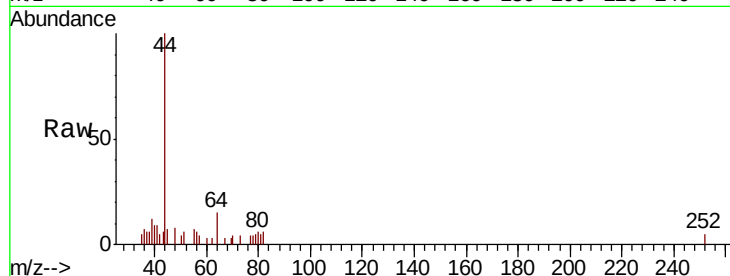
ClientSampled :

Tot Ion: 56 Resp: 119

Ion Ratio Lower Upper

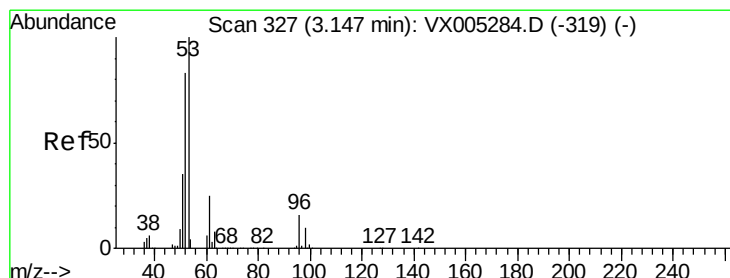
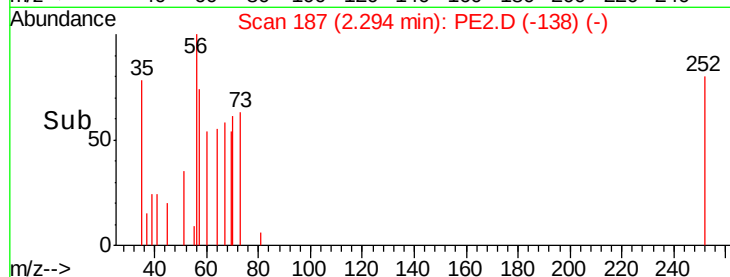
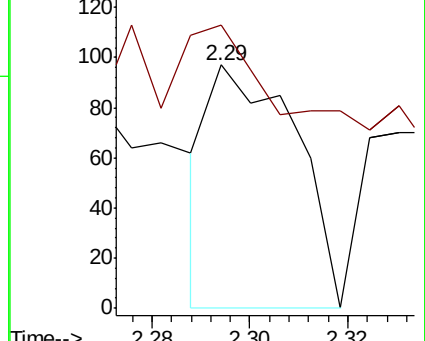
56 100

55 0.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): PE2

Ion 55.00 (54.70 to 55.70): PE2



#15

Acrylonitrile

Concen: 0.202 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

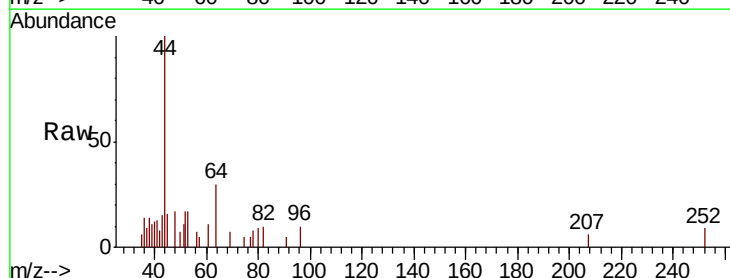
Tgt Ion: 53 Resp: 347

Ion Ratio Lower Upper

53 100

52 108.4 65.2 97.8#

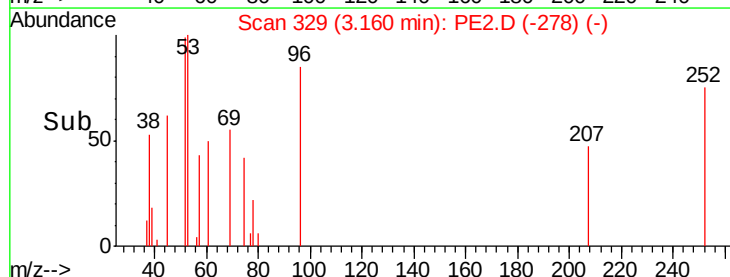
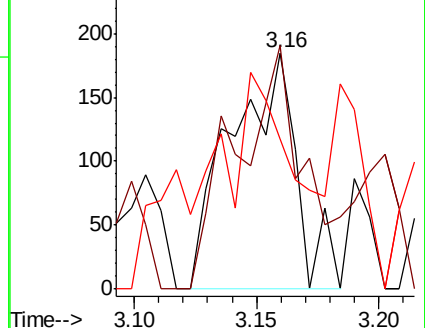
51 129.7 28.2 42.2#

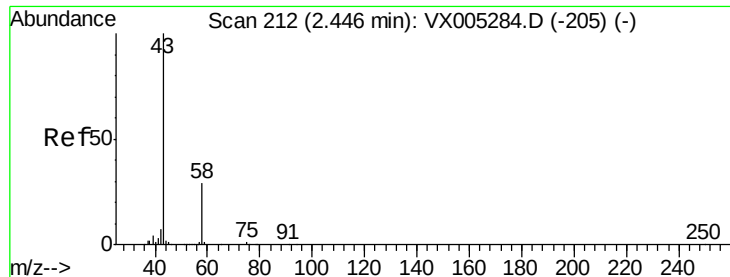


Abundance Ion 53.00 (52.70 to 53.70): PE2

Ion 52.00 (51.70 to 52.70): PE2

Ion 51.00 (50.70 to 51.70): PE2





#16

Acetone

Concen: 0.651 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

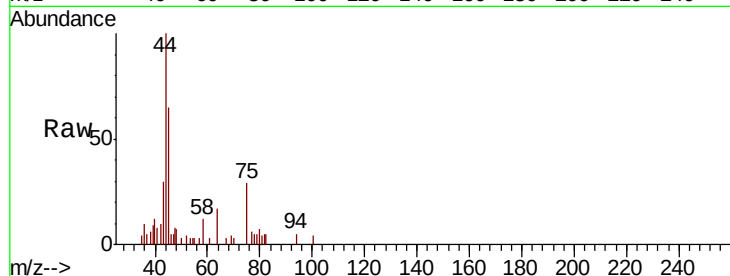
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1013

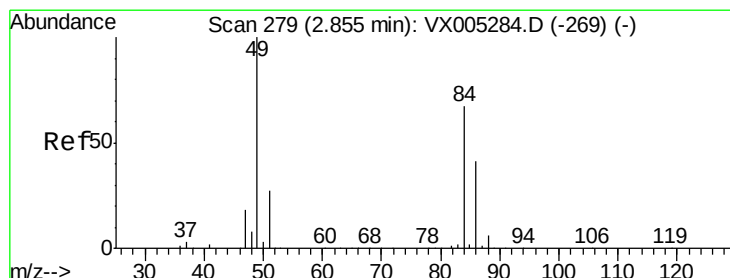
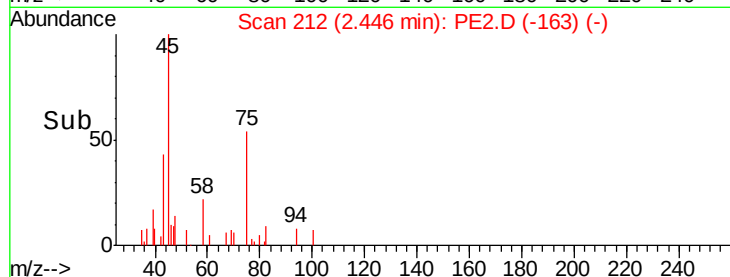
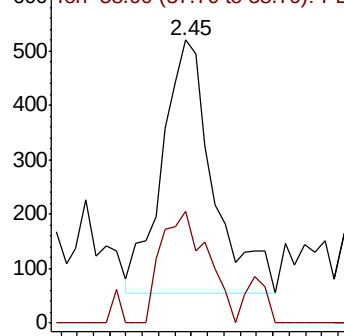
Ion Ratio Lower Upper

43 100

58 44.3 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): PE2
Ion 58.00 (57.70 to 58.70): PE2



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

Tgt Ion: 84 Resp: 1054

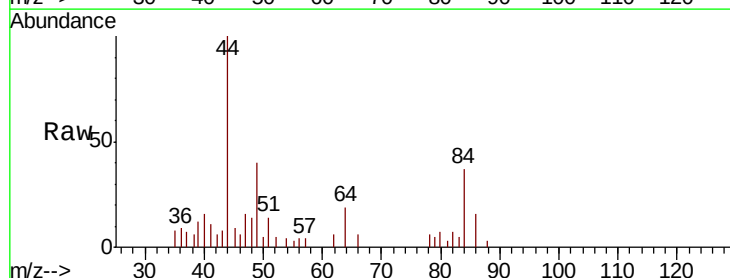
Ion Ratio Lower Upper

84 100

49 106.5 101.2 151.8

51 29.5 29.5 44.3#

86 43.3 52.3 78.5#

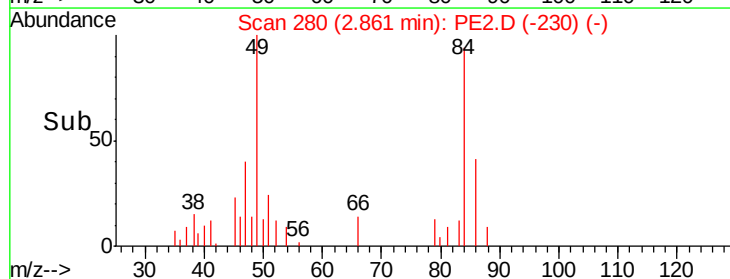
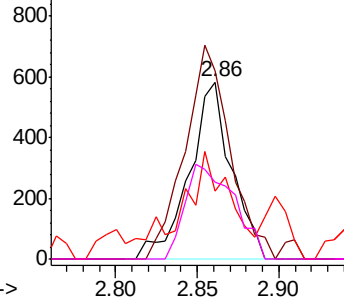


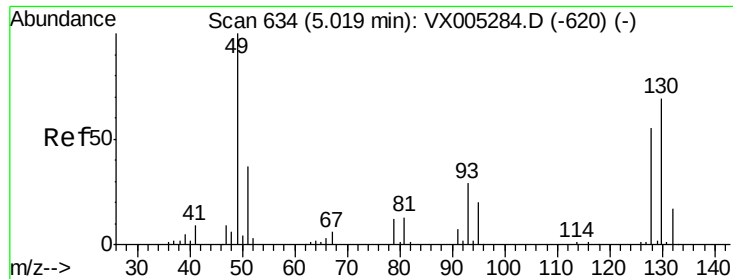
Abundance Ion 83.90 (83.60 to 84.60): PE2

Ion 48.90 (48.60 to 49.60): PE2

Ion 50.90 (50.60 to 51.60): PE2

Ion 85.90 (85.60 to 86.60): PE2





#28

Bromochloromethane

Concen: 2.118 ug/l

RT: 5.21 min Scan# 665

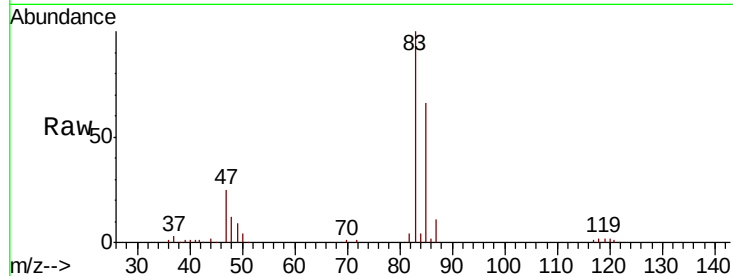
Delta R.T. 0.19 min

Lab File: PE2.D

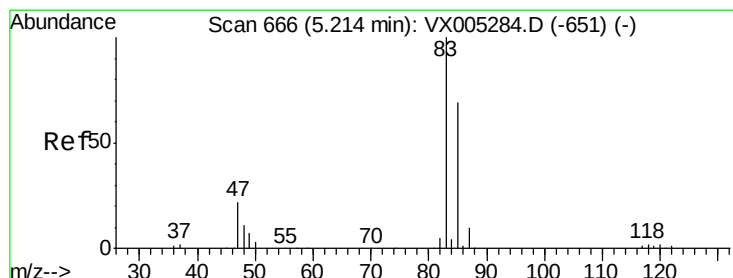
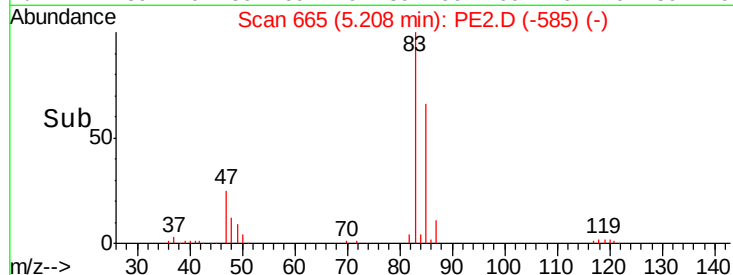
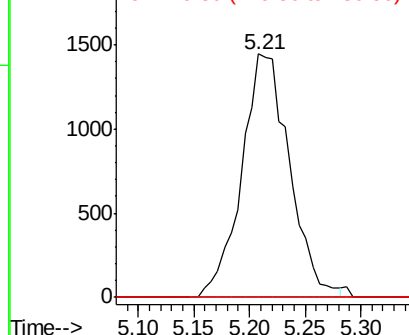
Acq: 19 Oct 2018 19:13

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 4332
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 67.5 101.3#



Abundance Ion 48.90 (48.60 to 49.60): PE2
Ion 128.80 (128.50 to 129.50): F
Ion 129.80 (129.50 to 130.50): F



#30

Chloroform

Concen: 12.603 ug/l

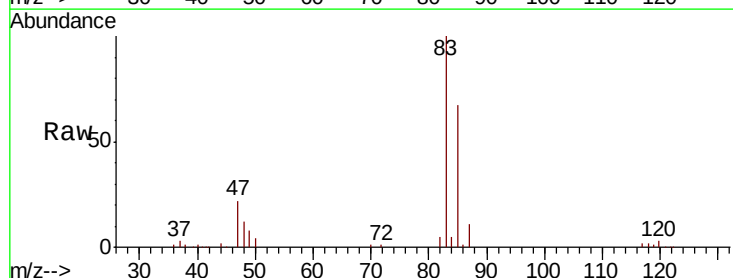
RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

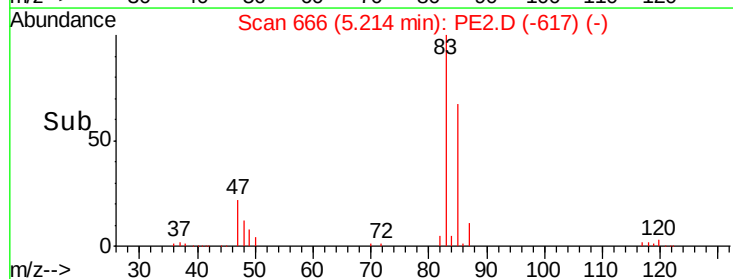
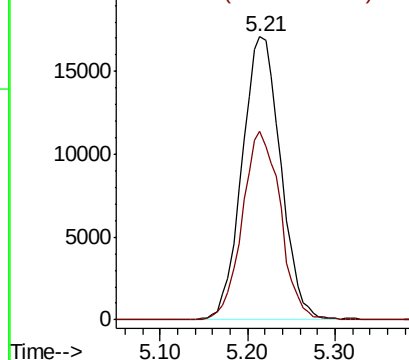
Lab File: PE2.D

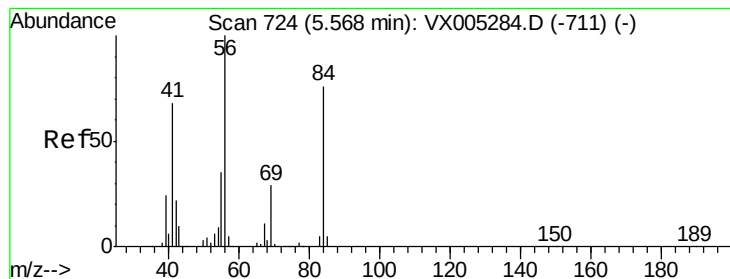
Acq: 19 Oct 2018 19:13

Tgt Ion: 83 Resp: 52475
Ion Ratio Lower Upper
83 100
85 66.8 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): PE2
Ion 84.90 (84.60 to 85.60): PE2





#31

Cyclohexane

Concen: 1.177 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

Instrument :

MSVOA_X

ClientSampleId :

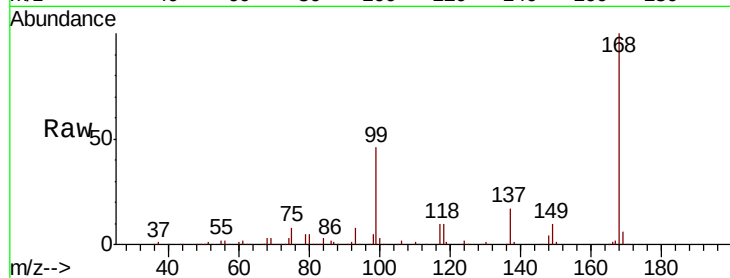
Tot Ion: 56 Resp: 4350

Ion Ratio Lower Upper

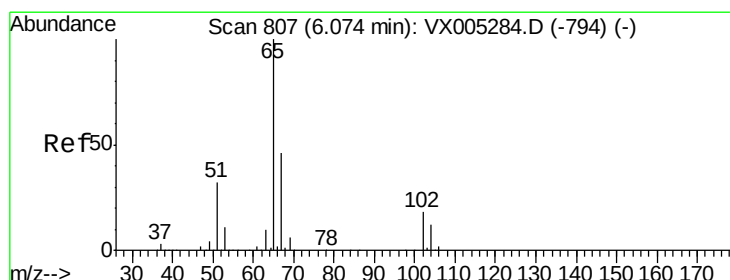
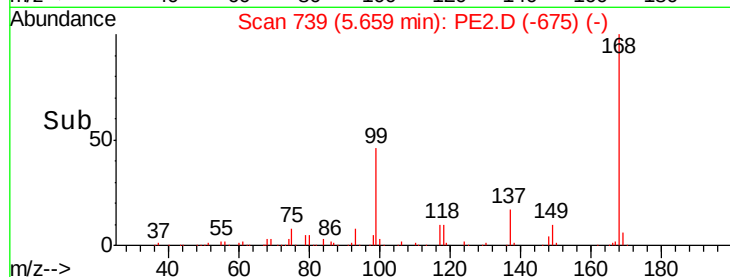
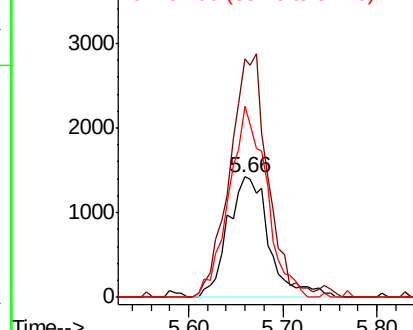
56 100

69 197.5 25.4 38.2#

84 159.0 71.4 107.2#



Abundance Ion 56.00 (55.70 to 56.70): PE2
Ion 69.00 (68.70 to 69.70): PE2
Ion 84.00 (83.70 to 84.70): PE2



#33

1,2-Dichloroethane-d4

Concen: 0.494 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: PE2.D

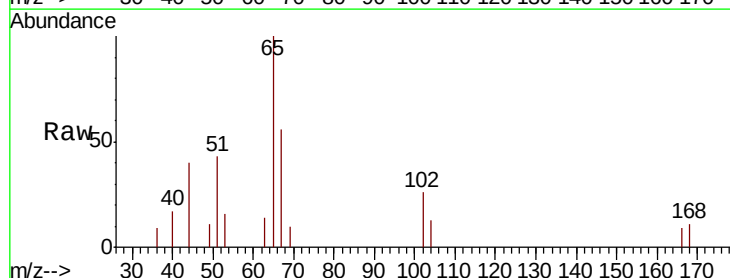
Acq: 19 Oct 2018 19:13

Tgt Ion: 65 Resp: 1330

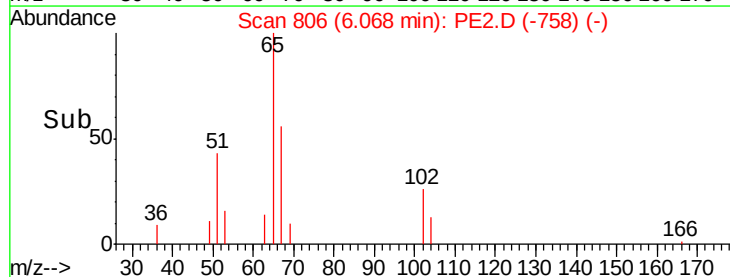
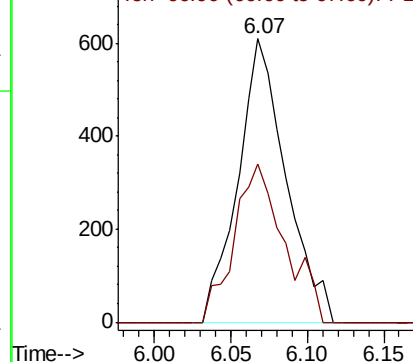
Ion Ratio Lower Upper

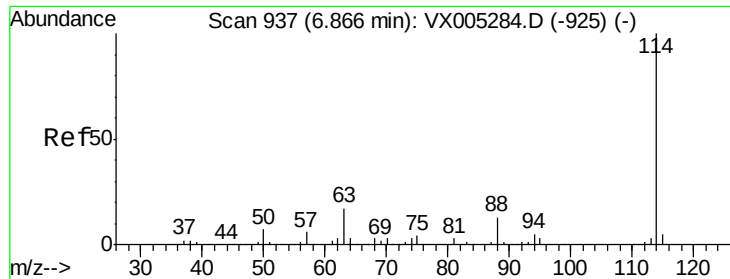
65 100

67 58.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): PE2
Ion 66.90 (66.60 to 67.60): PE2

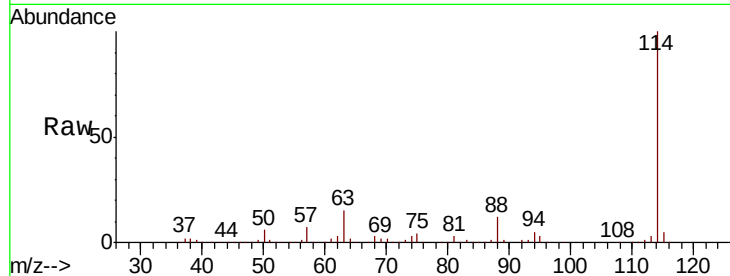




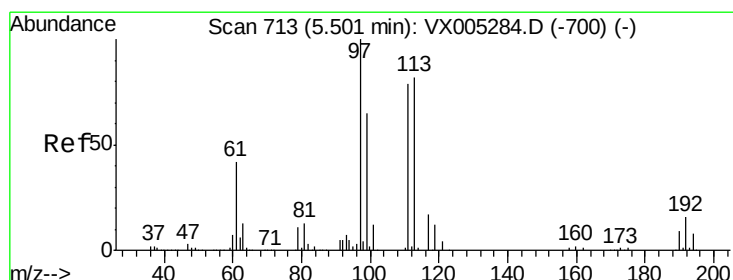
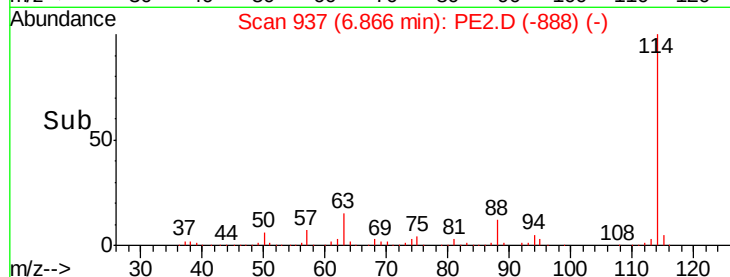
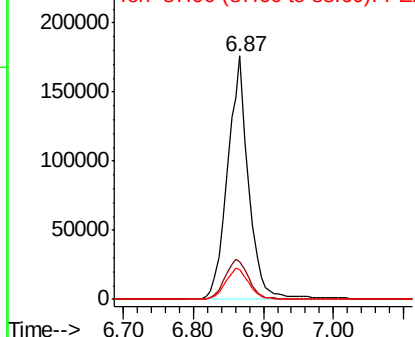
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.00 min
 Lab File: PE2.D
 Acq: 19 Oct 2018 19:13

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:114 Resp: 365334
 Ion Ratio Lower Upper
 114 100
 63 15.2 0.0 39.0
 88 12.5 0.0 30.4

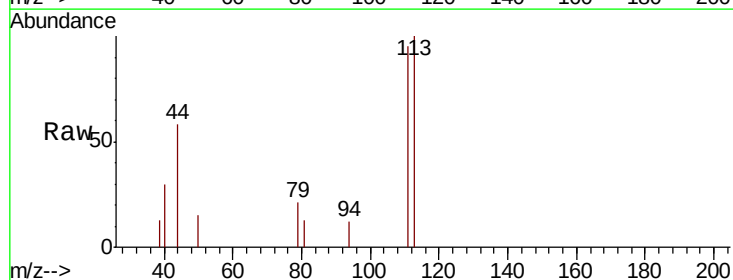


Abundance Ion 113.90 (113.60 to 114.60): F
 Ion 63.00 (62.70 to 63.70): PE2
 Ion 87.90 (87.60 to 88.60): PE2

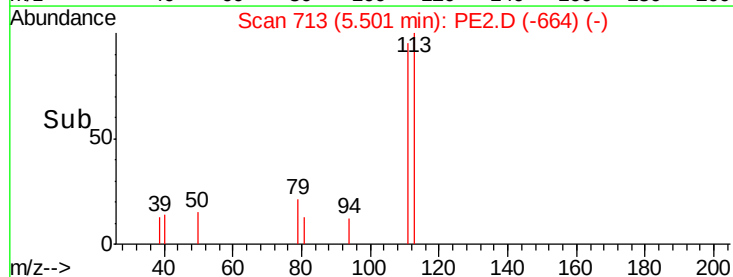
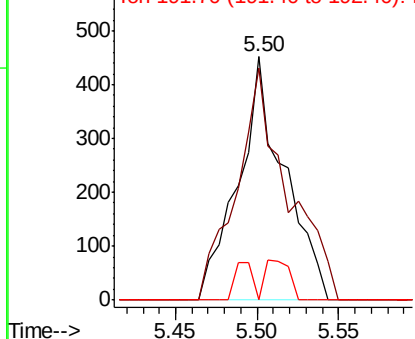


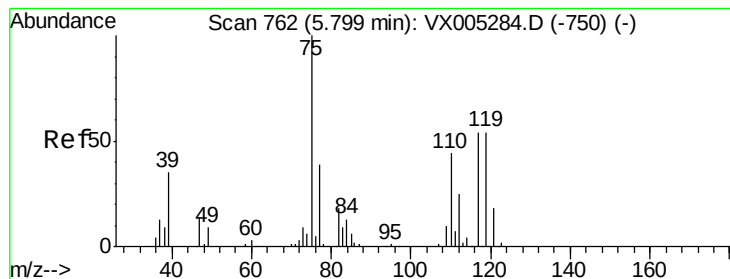
#35
 Dibromofluoromethane
 Concen: 0.367 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: PE2.D
 Acq: 19 Oct 2018 19:13

Tgt Ion:113 Resp: 888
 Ion Ratio Lower Upper
 113 100
 111 105.7 82.4 123.6
 192 8.6 19.4 29.2#



Abundance Ion 112.80 (112.50 to 113.50): F
 Ion 110.80 (110.50 to 111.50): F
 Ion 191.70 (191.40 to 192.40): F





#36

1,1-Dichloropropene

Concen: 4.626 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

Instrument :

MSVOA_X

ClientSampleId :

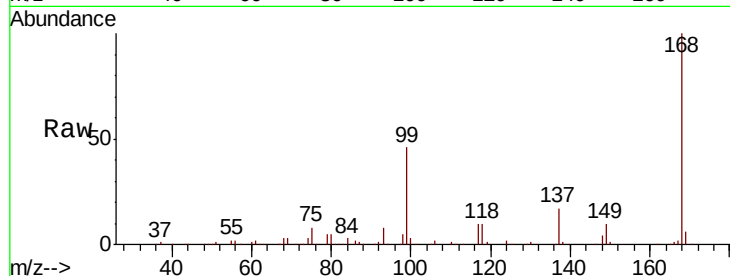
Tot Ion: 75 Resp: 16368

Ion Ratio Lower Upper

75 100

110 8.5 18.0 54.0#

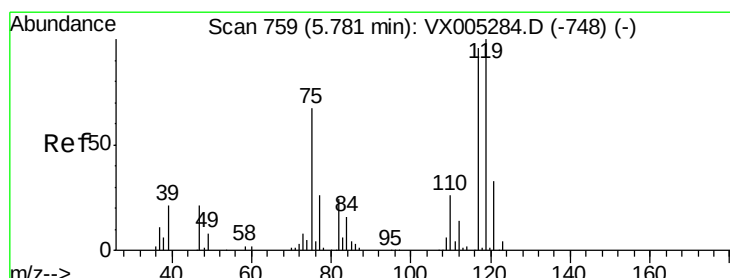
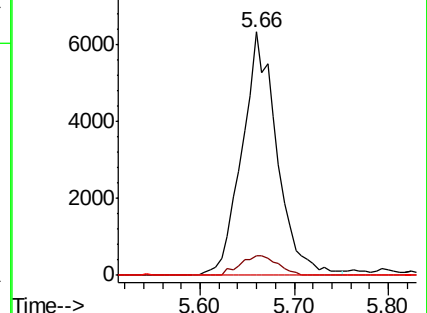
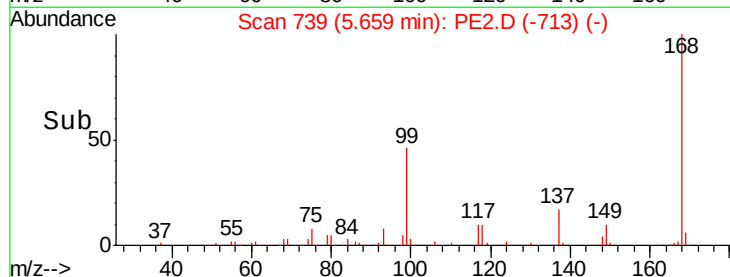
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): PE2

Ion 109.90 (109.60 to 110.60): F

Ion 76.90 (76.60 to 77.60): PE2



#38

Carbon Tetrachloride

Concen: 6.109 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

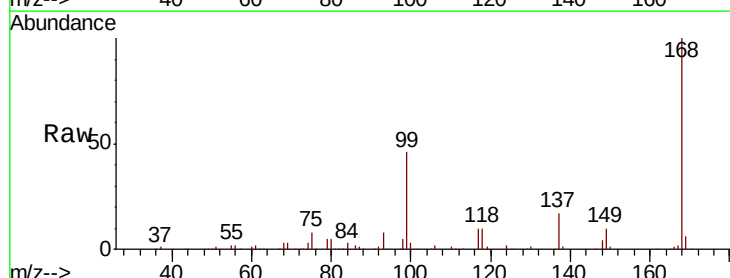
Tgt Ion: 117 Resp: 21718

Ion Ratio Lower Upper

117 100

119 6.2 78.8 118.2#

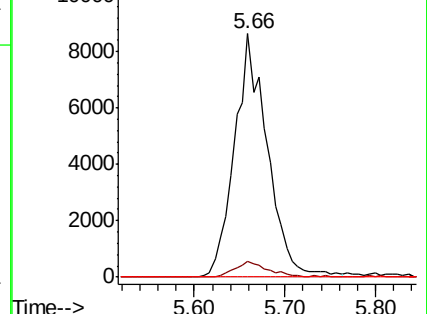
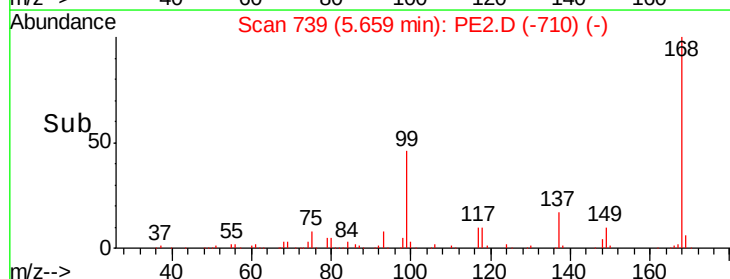
121 0.0 24.9 37.3#

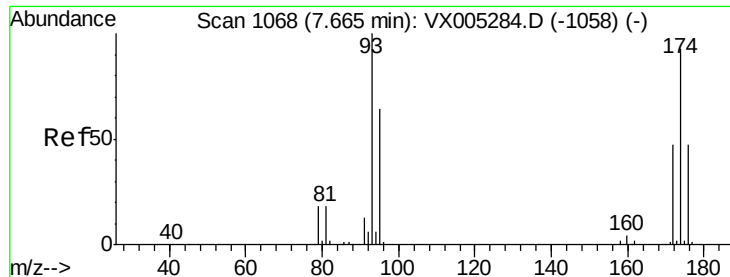


Abundance Ion 116.80 (116.50 to 117.50): F

Ion 118.80 (118.50 to 119.50): F

Ion 120.80 (120.50 to 121.50): F

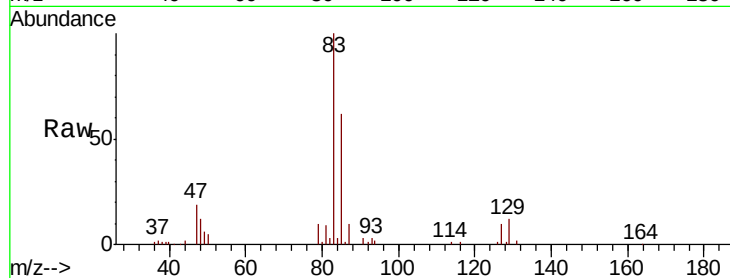




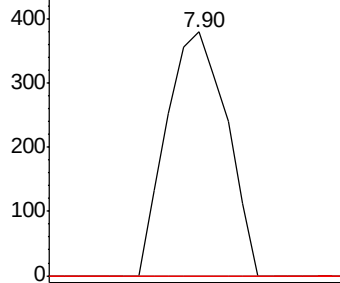
#46
Dibromomethane
Concen: 0.381 ug/l
RT: 7.90 min Scan# 1107
Delta R.T. 0.24 min
Lab File: PE2.D
Acq: 19 Oct 2018 19:13

Instrument :
MSVOA_X
ClientSampled :

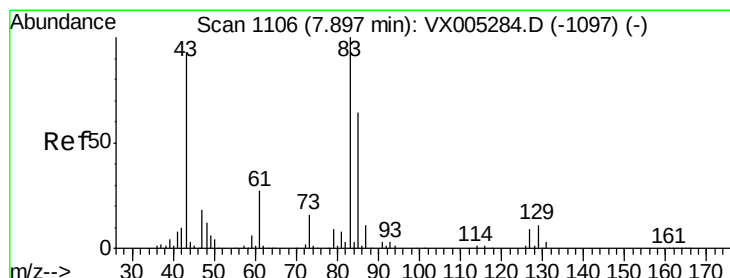
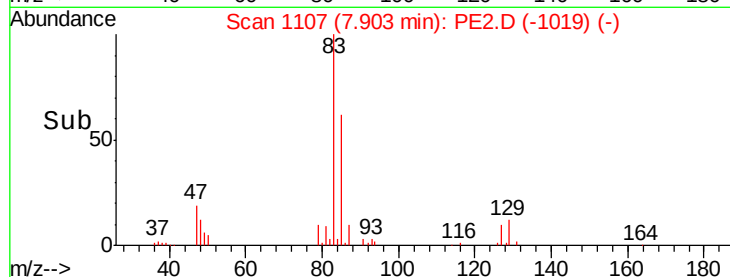
Tot Ion: 93 Resp: 655
Ion Ratio Lower Upper
93 100
95 0.0 65.5 98.3#
174 0.0 94.2 141.4#



Abundance Ion 92.80 (92.50 to 93.50): PE2
Ion 94.80 (94.50 to 95.50): PE2
Ion 173.70 (173.40 to 174.40): F

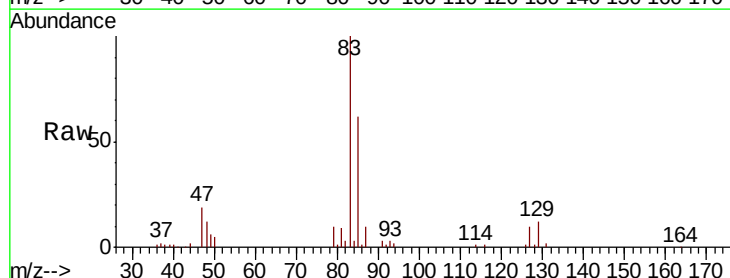


Time-->

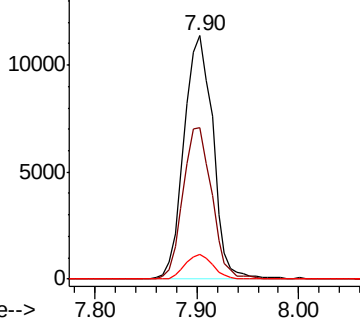


#47
Bromodichloromethane
Concen: 7.012 ug/l
RT: 7.90 min Scan# 1107
Delta R.T. 0.01 min
Lab File: PE2.D
Acq: 19 Oct 2018 19:13

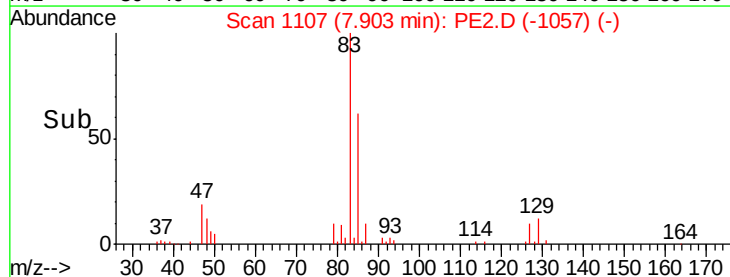
Tgt Ion: 83 Resp: 22287
Ion Ratio Lower Upper
83 100
85 62.0 50.9 76.3
127 10.0 7.3 10.9

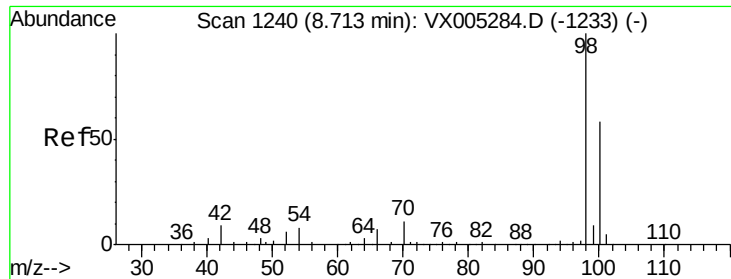


Abundance Ion 82.90 (82.60 to 83.60): PE2
Ion 84.90 (84.60 to 85.60): PE2
Ion 126.80 (126.50 to 127.50): F



Time-->

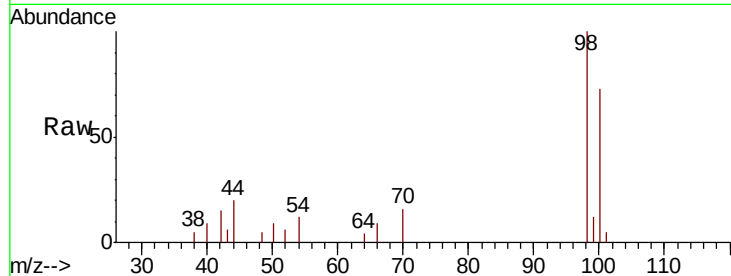




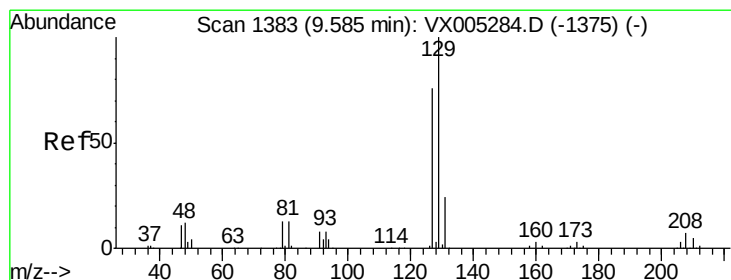
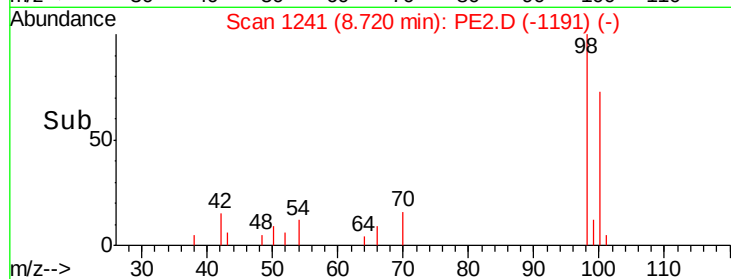
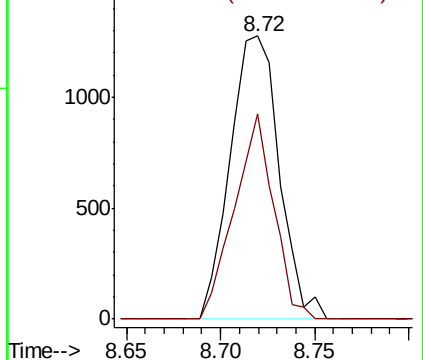
#50
Toluene-d8
Concen: 0.278 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: PE2.D
Acq: 19 Oct 2018 19:13

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 98 Resp: 2308
Ion Ratio Lower Upper
98 100
100 58.2 52.9 79.3

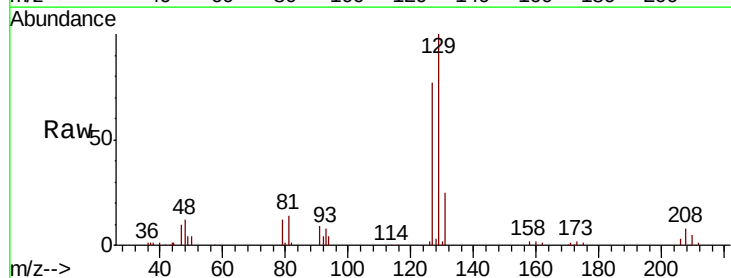


Abundance Ion 98.00 (97.70 to 98.70): PE2
Ion 100.00 (99.70 to 100.70): PE

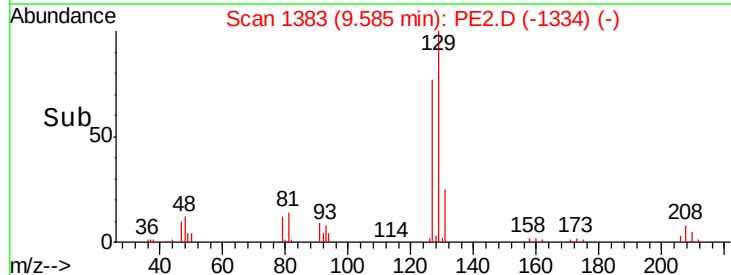
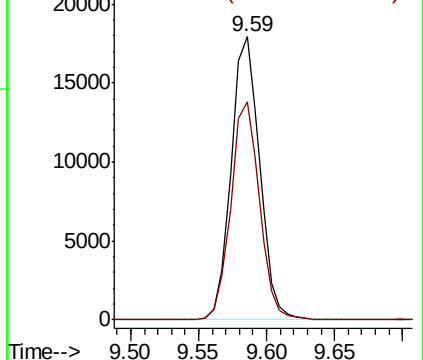


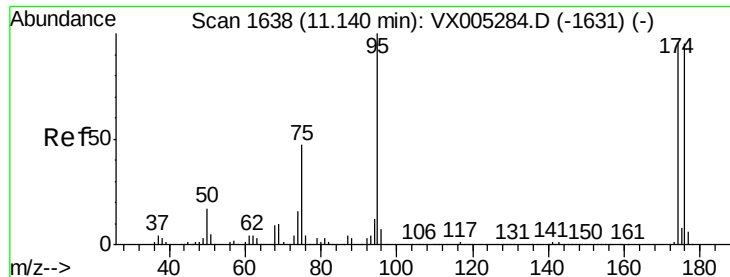
#60
Dibromochloromethane
Concen: 10.327 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. 0.00 min
Lab File: PE2.D
Acq: 19 Oct 2018 19:13

Tgt Ion: 129 Resp: 26254
Ion Ratio Lower Upper
129 100
127 77.4 38.5 115.5



Abundance Ion 128.80 (128.50 to 129.50): F
Ion 126.80 (126.50 to 127.50): F





#62

4-Bromofluorobenzene

Concen: 0.220 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

Instrument :

MSVOA_X

ClientSampleId :

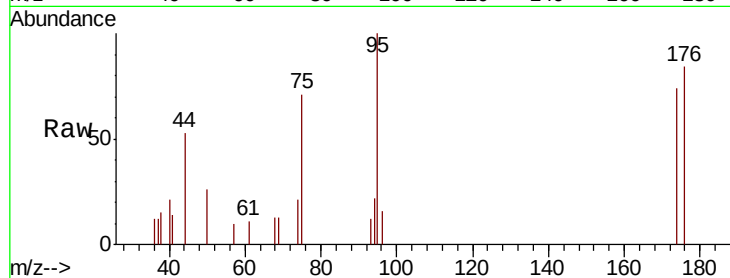
Tot Ion: 95 Resp: 688

Ion Ratio Lower Upper

95 100

174 79.4 0.0 185.2

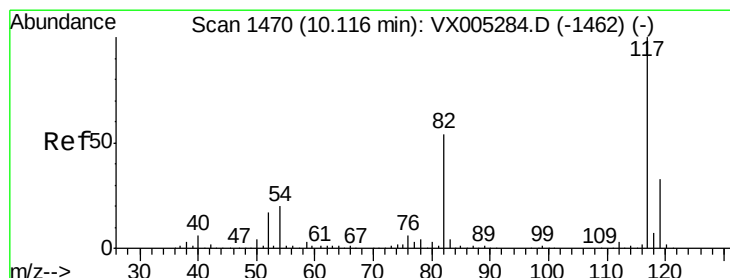
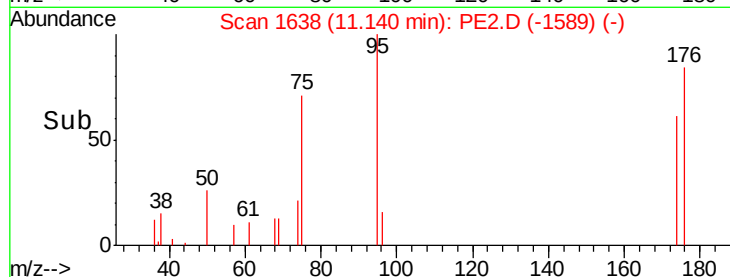
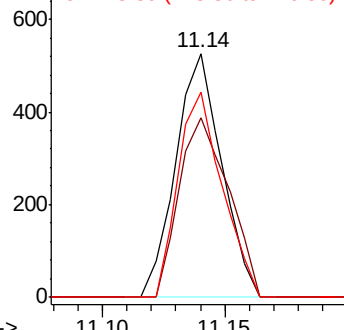
176 80.8 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): PE2

Ion 173.80 (173.50 to 174.50): F

Ion 175.80 (175.50 to 176.50): F



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

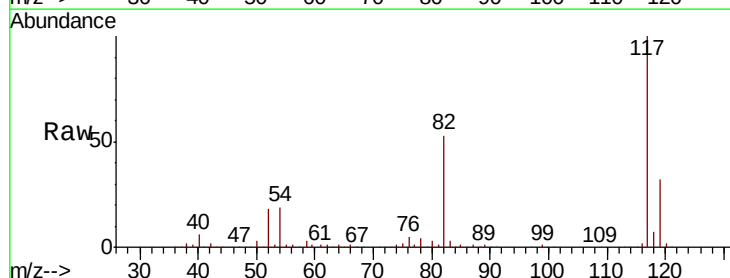
Tgt Ion: 117 Resp: 311036

Ion Ratio Lower Upper

117 100

82 53.5 47.8 71.6

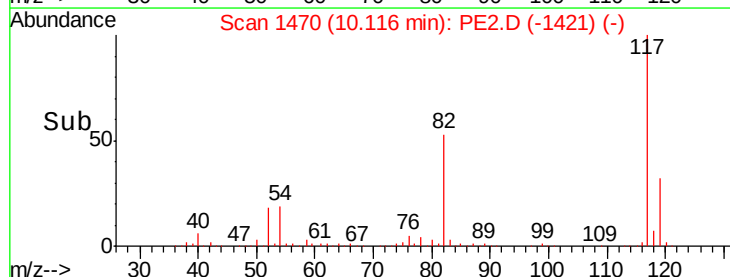
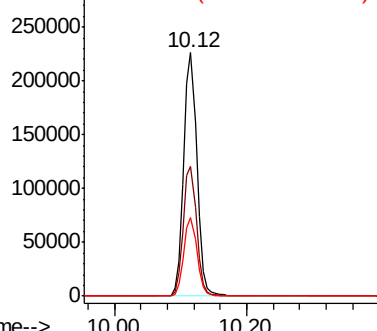
119 32.1 29.3 43.9

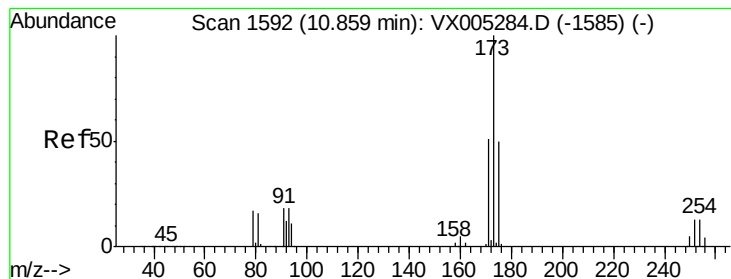


Abundance Ion 116.90 (116.60 to 117.60): F

Ion 82.00 (81.70 to 82.70): PE2

Ion 118.90 (118.60 to 119.60): F





#71

Bromoform

Concen: 9.221 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

Instrument :

MSVOA_X

ClientSampleId :

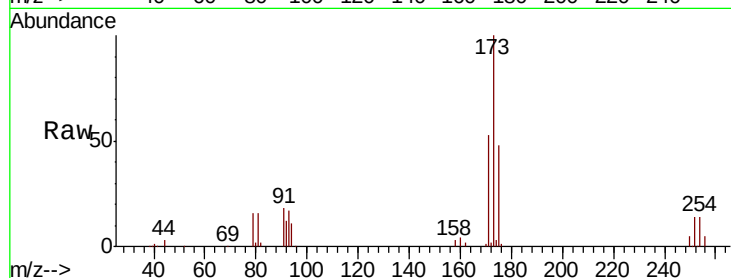
Tot Ion:173 Resp: 19427

Ion Ratio Lower Upper

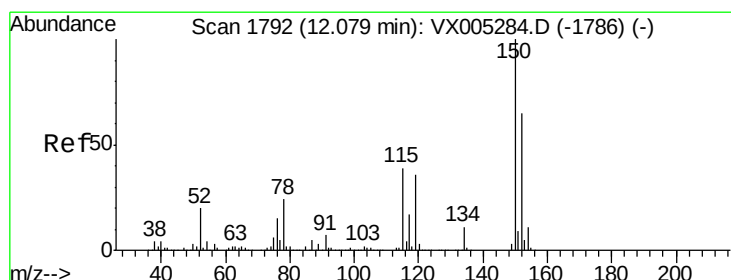
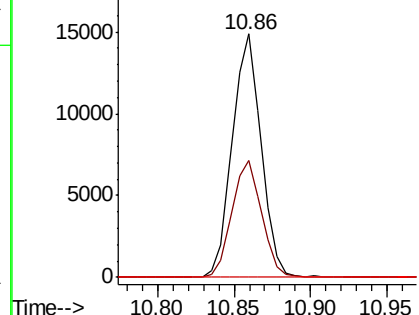
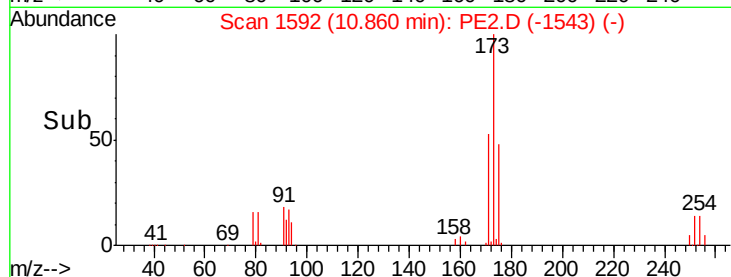
173 100

175 49.1 24.1 72.3

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): F
Ion 174.70 (174.40 to 175.40): F
Ion 254.40 (254.10 to 255.10): F



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: PE2.D

Acq: 19 Oct 2018 19:13

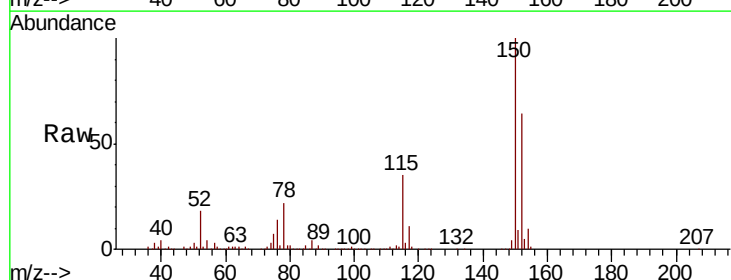
Tgt Ion:152 Resp: 156245

Ion Ratio Lower Upper

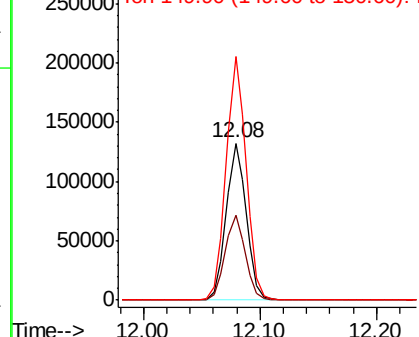
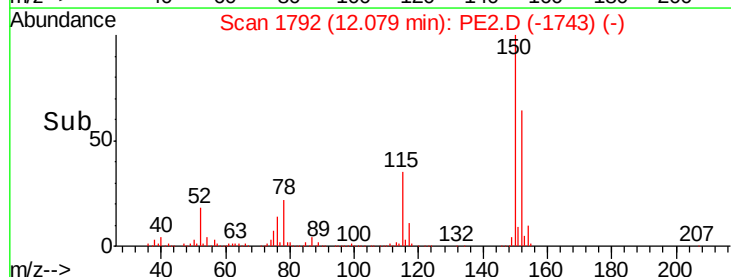
152 100

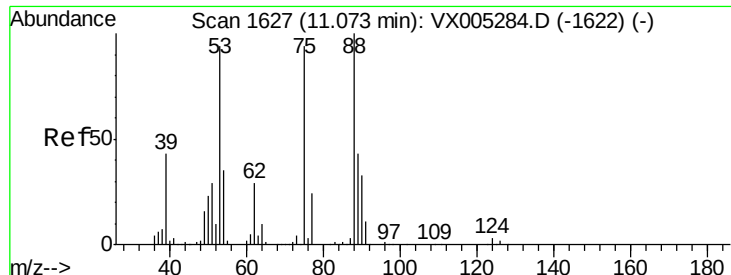
115 54.7 39.0 117.0

150 155.8 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): F
Ion 114.90 (114.60 to 115.60): F
Ion 149.90 (149.60 to 150.60): F

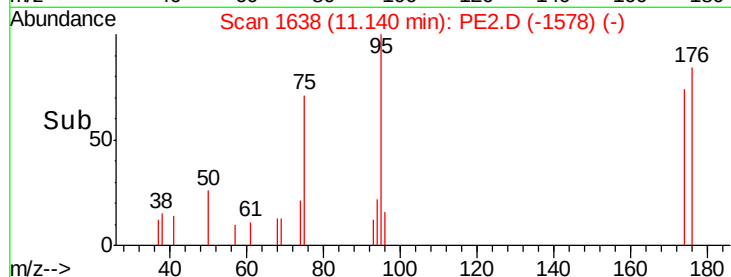
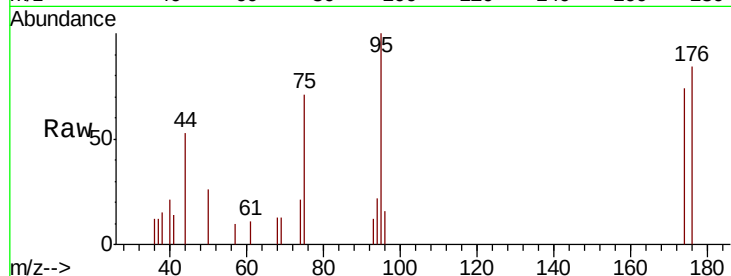




#81
 trans-1,4-Dichloro-2-butene
 Concen: 0.372 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: PE2.D
 Acq: 19 Oct 2018 19:13

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 371
 Ion Ratio Lower Upper
 75 100
 53 0.0 80.1 120.1#
 89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): PE2
 Ion 53.00 (52.70 to 53.70): PE2
 Ion 88.90 (88.60 to 89.60): PE2

