

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY121719\
 Data File : VY000978.D
 Acq On : 17 Dec 2019 15:05
 Operator : SY/MD
 Sample : K6177-10RE
 Misc : 5.09G/5ML/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EP-8RE

Quant Time: Dec 18 05:51:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y112719S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 12:40:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	3697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	8001	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	7822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	3515	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.14	65	3640	92.66	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	185.32%	
35) Dibromofluoromethane	7.74	113	363	7.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	15.56%	
50) Toluene-d8	10.17	98	9351	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
62) 4-Bromofluorobenzene	12.47	95	3346	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	

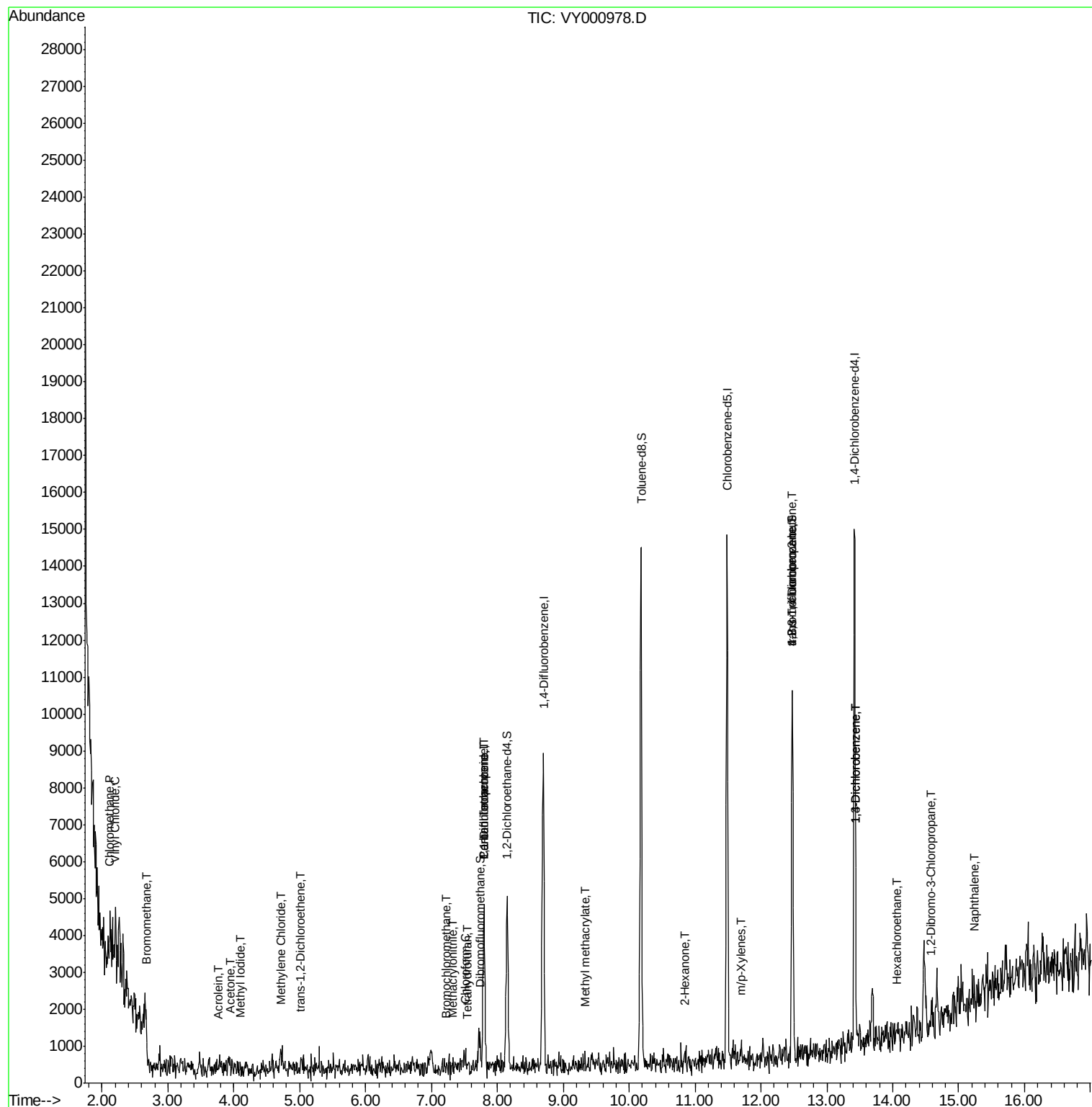
Target Compounds						Qvalue
3) Chloromethane	2.12	50	365	7.440	ug/l #	42
4) Vinyl Chloride	2.19	62	65	1.344	ug/l #	43
5) Bromomethane	2.68	94	237	7.129	ug/l #	62
10) Methyl Iodide	4.10	142	97	1.883	ug/l #	41
13) Acrolein	3.77	56	22	5.651	ug/l #	15
16) Acetone	3.94	43	190	21.084	ug/l #	40
20) Methylene Chloride	4.71	84	131	2.758	ug/l #	42
21) trans-1,2-Dichloroethene	5.02	96	67	1.454	ug/l #	1
28) Bromochloromethane	7.22	49	20	2.680	ug/l #	15
29) Tetrahydrofuran	7.54	42	25	2.266	ug/l #	33
30) Chloroform	7.52	83	262	3.317	ug/l	87
36) 1,1-Dichloropropene	7.80	75	161	2.024	ug/l #	41
38) Carbon Tetrachloride	7.80	117	231	3.260	ug/l #	11
41) Methacrylonitrile	7.31	41	28	1.157	ug/l #	57
48) Methyl methacrylate	9.33	41	100	2.627	ug/l #	13
59) 2-Hexanone	10.85	43	155	4.756	ug/l #	22
68) m/p-Xylenes	11.70	106	130	1.144	ug/l #	55
76) 1,2,3-Trichloropropane	12.48	75	2009	50.446	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	2009	99.091	ug/l #	17
87) 1,3-Dichlorobenzene	13.44	146	154	1.294	ug/l #	25
88) 1,4-Dichlorobenzene	13.44	146	154	1.307	ug/l #	25
90) Hexachloroethane	14.06	117	200	4.405	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.58	75	69	7.474	ug/l #	1
95) Naphthalene	15.23	128	268	1.593	ug/l #	77

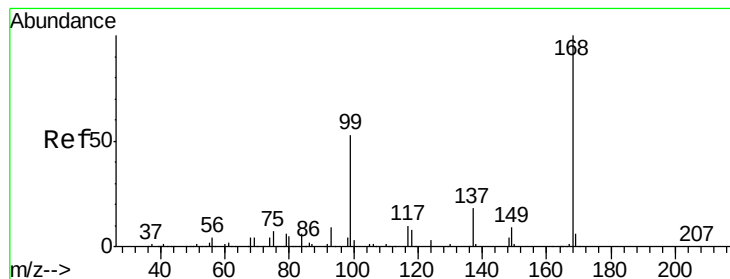
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

Instrument :

MSVOA_Y

ClientSampleId :

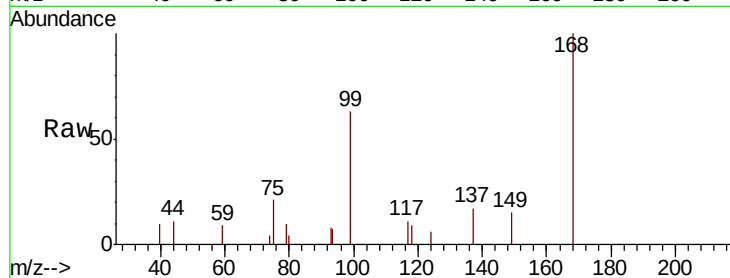
EP-8RE

Tgt Ion: 168 Resp: 3697

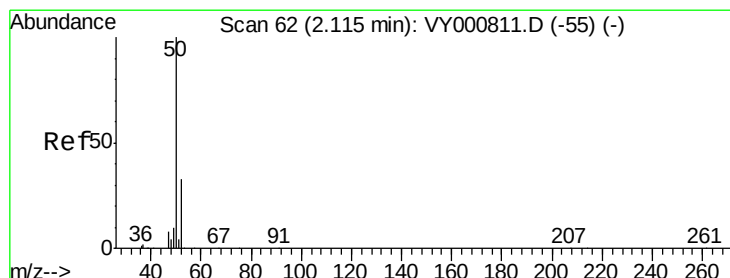
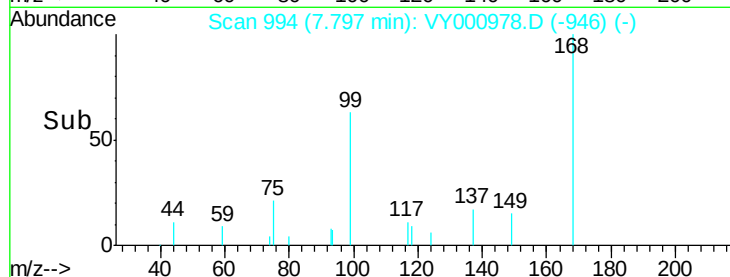
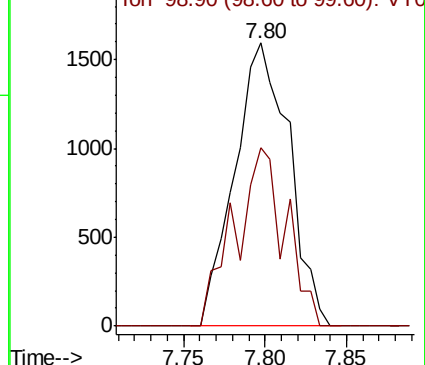
Ion Ratio Lower Upper

168 100

99 63.0 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000978.D (-946) (-)



#3

Chloromethane

Concen: 7.440 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY000978.D

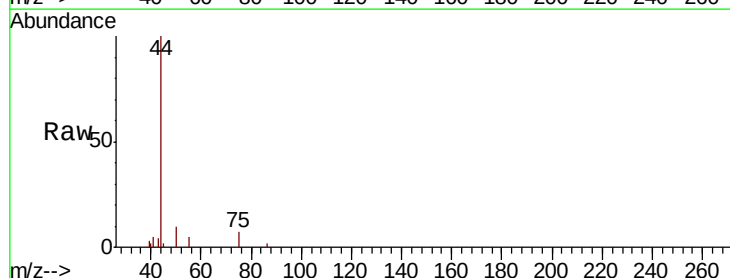
Acq: 17 Dec 2019 15:05

Tgt Ion: 50 Resp: 365

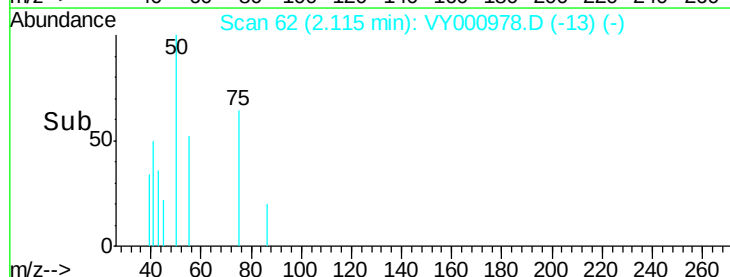
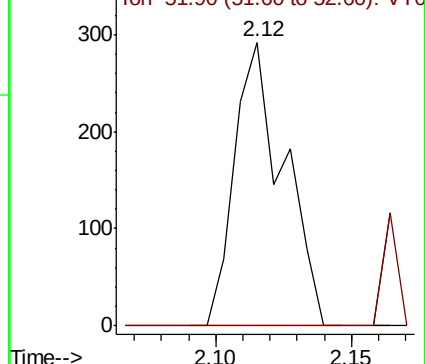
Ion Ratio Lower Upper

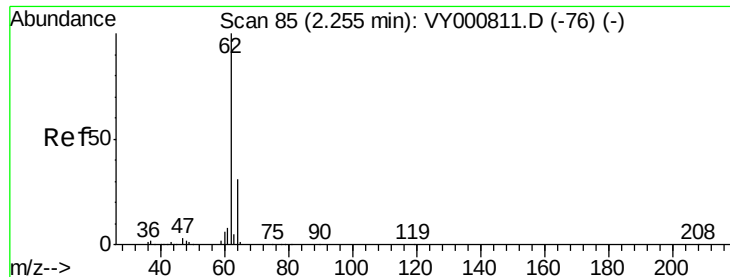
50 100

52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VY000978.D (-13) (-)





#4

Vinyl Chloride

Concen: 1.344 ug/l

RT: 2.19 min Scan# 75

Delta R.T. -0.06 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

Instrument :

MSVOA_Y

ClientSampled :

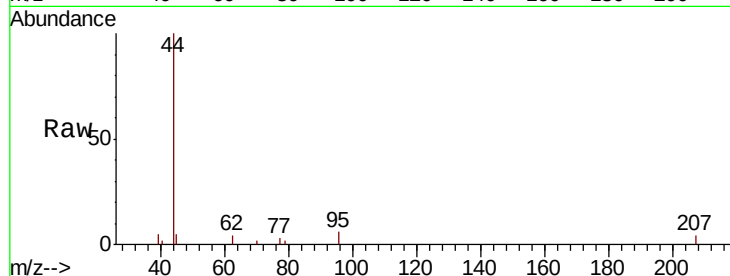
EP-8RE

Tgt Ion: 62 Resp: 65

Ion Ratio Lower Upper

62 100

64 0.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0

2.19

100

80

60

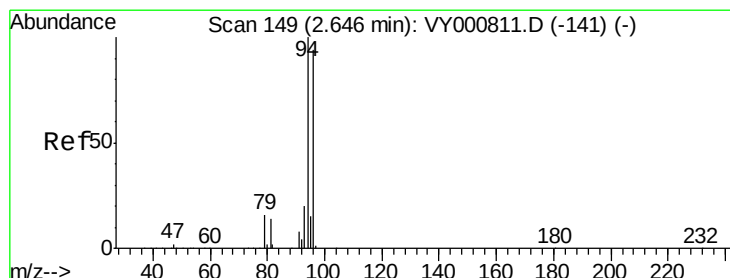
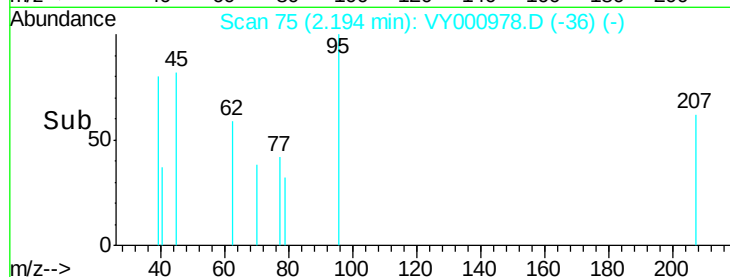
40

20

0

2.18 2.20

Time-->



#5

Bromomethane

Concen: 7.129 ug/l

RT: 2.68 min Scan# 154

Delta R.T. 0.03 min

Lab File: VY000978.D

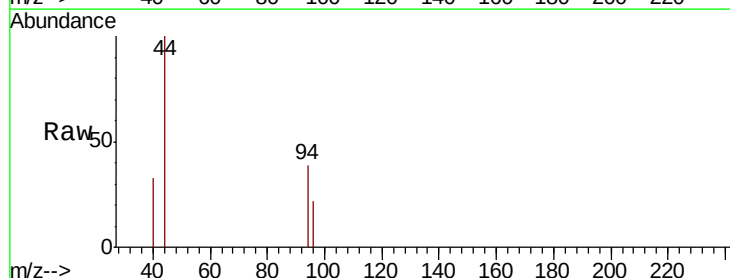
Acq: 17 Dec 2019 15:05

Tgt Ion: 94 Resp: 237

Ion Ratio Lower Upper

94 100

96 56.9 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

250

200

150

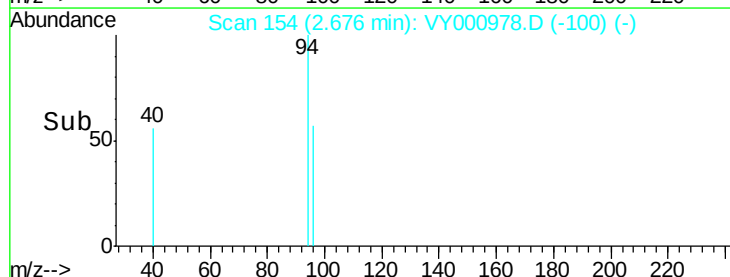
100

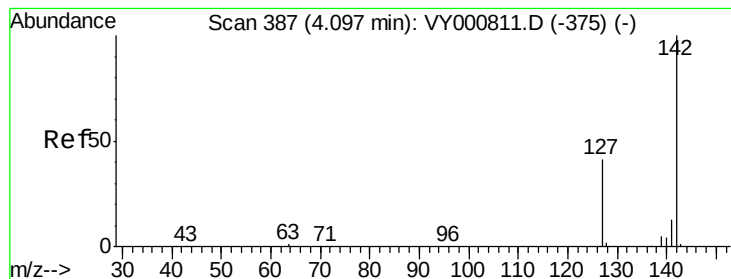
50

0

2.64 2.66 2.68 2.70 2.72

Time-->

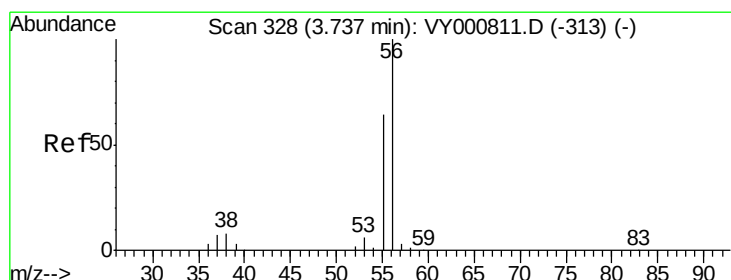
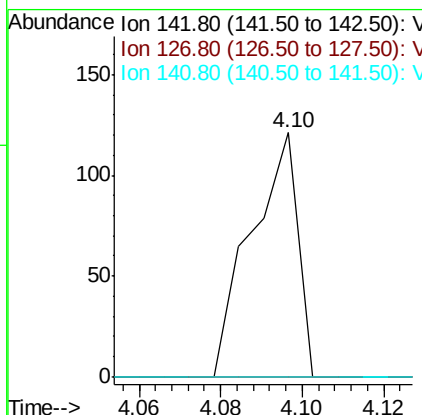
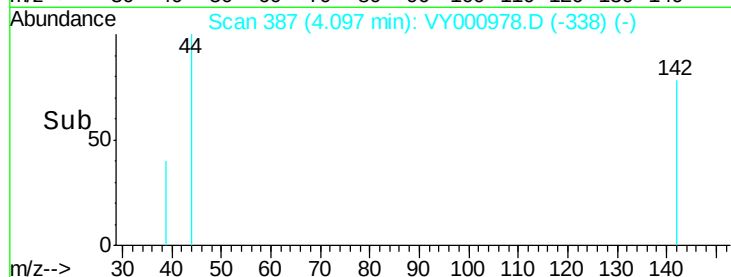
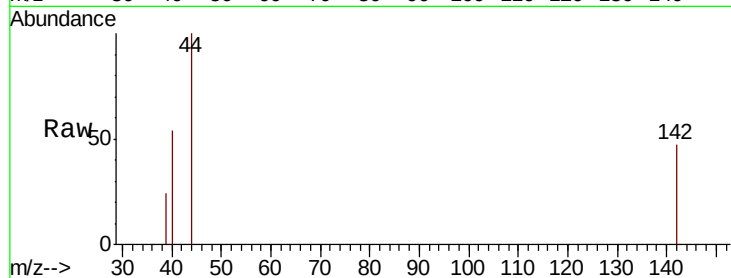




#10
Methyl Iodide
Concen: 1.883 ug/l
RT: 4.10 min Scan# 387
Delta R.T. -0.00 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

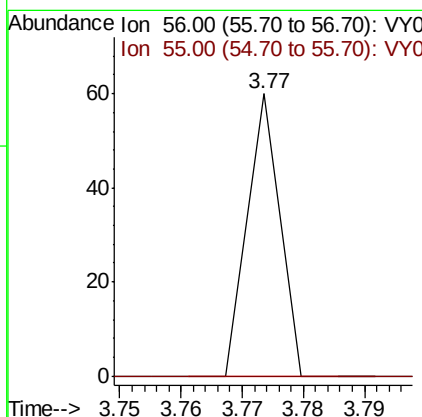
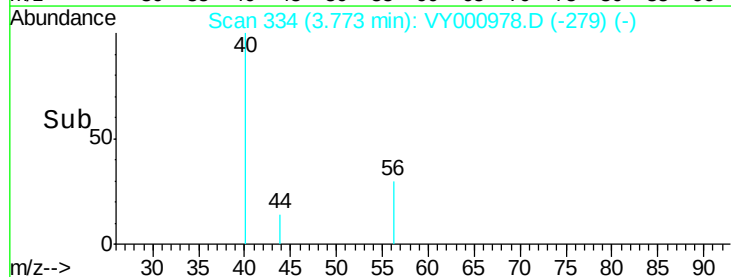
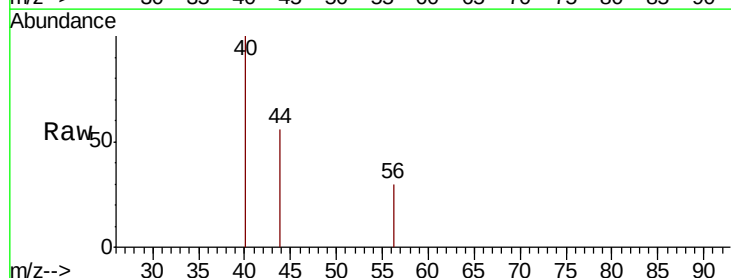
Instrument :
MSVOA_Y
ClientSampleId :
EP-8RE

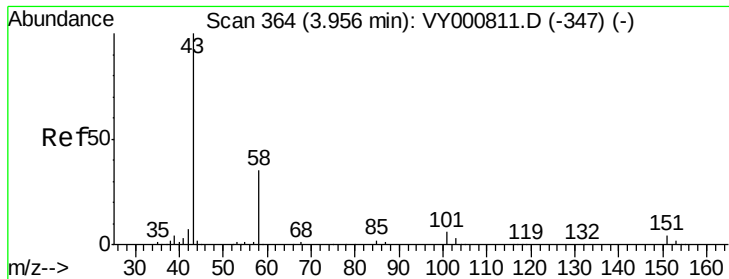
Tgt Ion: 142 Resp: 97
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.8#
141 0.0 10.9 16.3#



#13
Acrolein
Concen: 5.651 ug/l
RT: 3.77 min Scan# 334
Delta R.T. 0.04 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

Tgt Ion: 56 Resp: 22
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#





#16

Acetone

Concen: 21.084 ug/l

RT: 3.94 min Scan# 362

Delta R.T. -0.01 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

Instrument :

MSVOA_Y

ClientSampled :

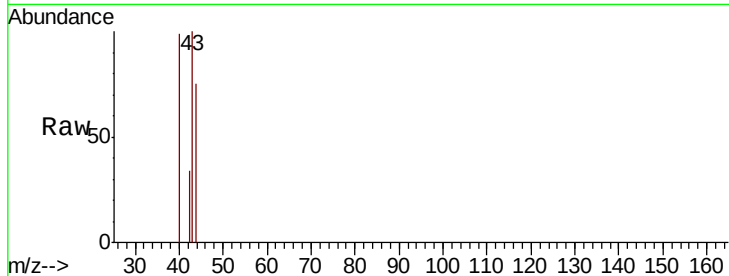
EP-8RE

Tgt Ion: 43 Resp: 190

Ion Ratio Lower Upper

43 100

58 0.0 28.0 42.0#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.94

250

200

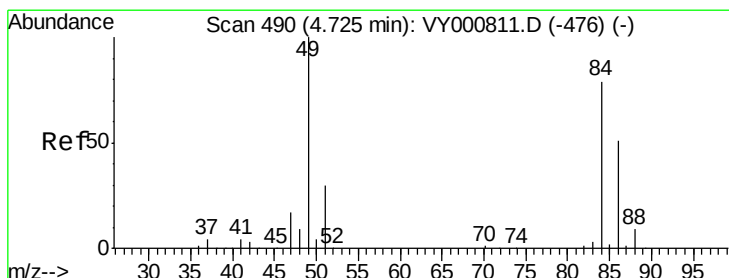
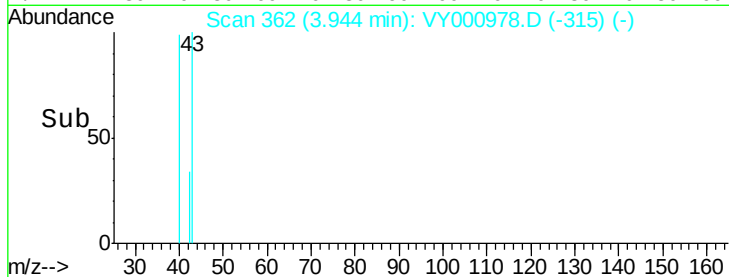
150

100

50

0

Time--> 3.92 3.94 3.96



#20

Methylene Chloride

Concen: 2.758 ug/l

RT: 4.71 min Scan# 487

Delta R.T. -0.02 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

Tgt Ion: 84 Resp: 131

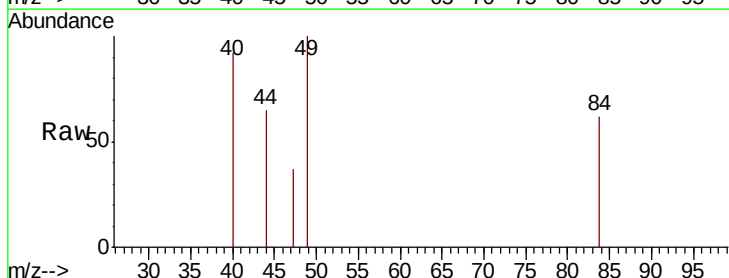
Ion Ratio Lower Upper

84 100

49 76.6 101.3 151.9#

51 0.0 30.6 45.8#

86 0.0 51.3 76.9#



Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0

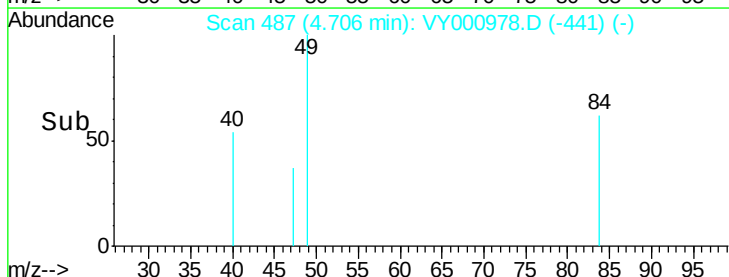
300

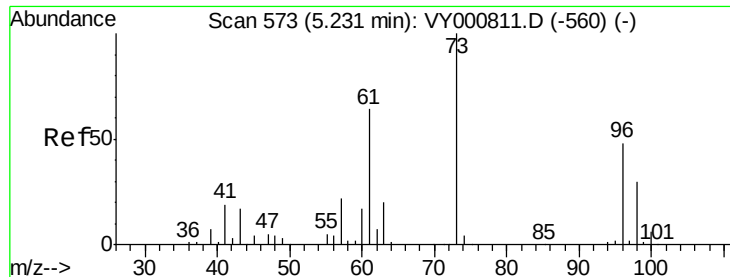
200

100

0

Time--> 4.68 4.70 4.72





#21

trans-1,2-Dichloroethene

Concen: 1.454 ug/l

RT: 5.02 min Scan# 538

Delta R.T. -0.21 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

Instrument :

MSVOA_Y

ClientSampleId :

EP-8RE

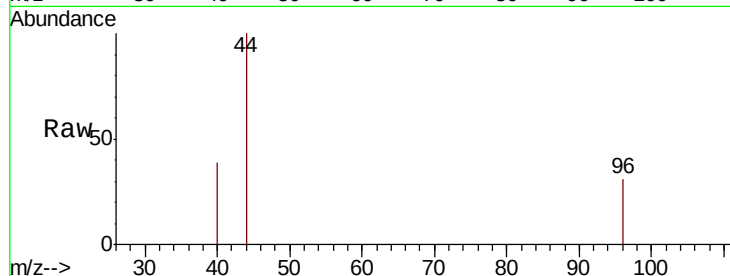
Tgt Ion: 96 Resp: 67

Ion Ratio Lower Upper

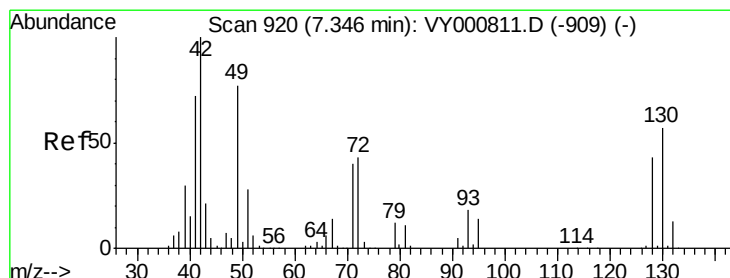
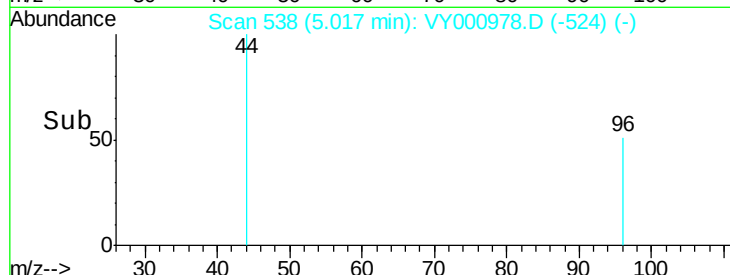
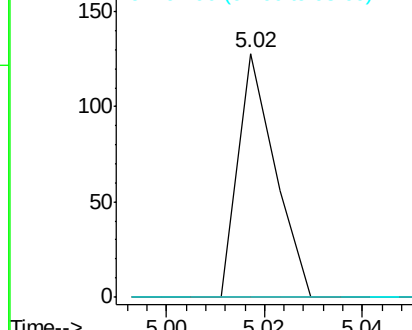
96 100

61 0.0 105.9 158.9#

98 0.0 49.4 74.2#



Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



#28

Bromochloromethane

Concen: 2.680 ug/l

RT: 7.22 min Scan# 899

Delta R.T. -0.13 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

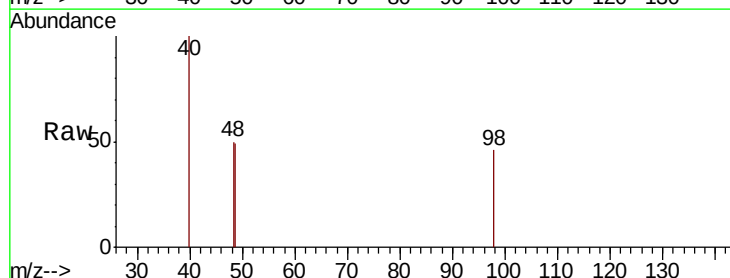
Tgt Ion: 49 Resp: 20

Ion Ratio Lower Upper

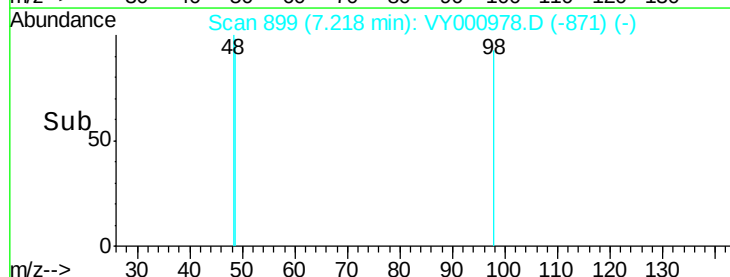
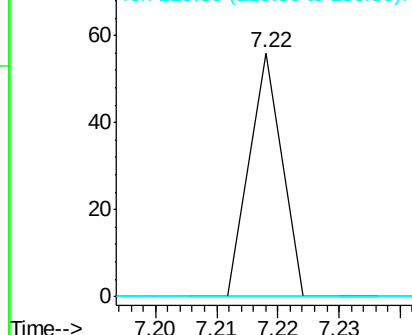
49 100

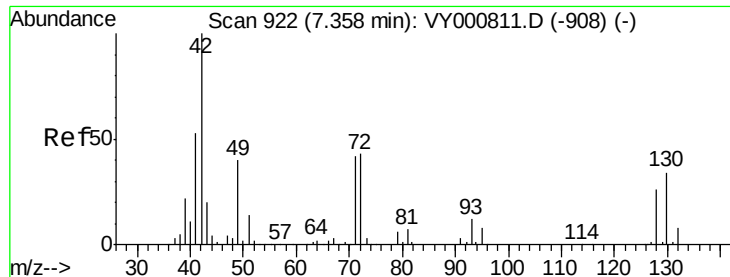
129 0.0 0.0 3.8

130 0.0 58.7 88.1#



Abundance Ion 48.90 (48.60 to 49.60): VY0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 2.266 ug/l

RT: 7.54 min Scan# 952

Delta R.T. 0.18 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

Instrument :

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ClientSampleId :

EP-8RE

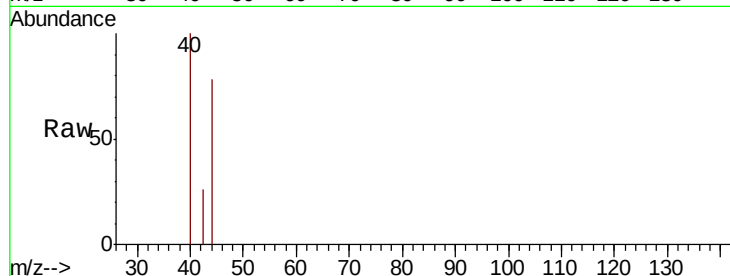
Tgt Ion: 42 Resp: 25

Ion Ratio Lower Upper

42 100

72 0.0 35.1 52.7#

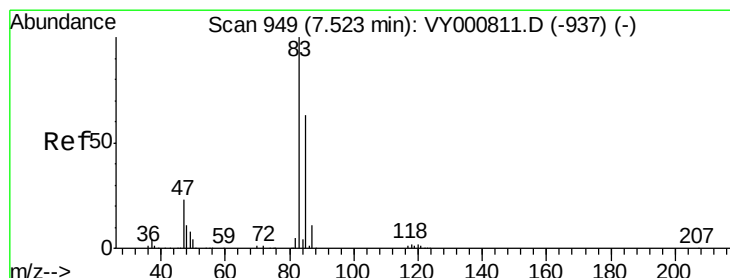
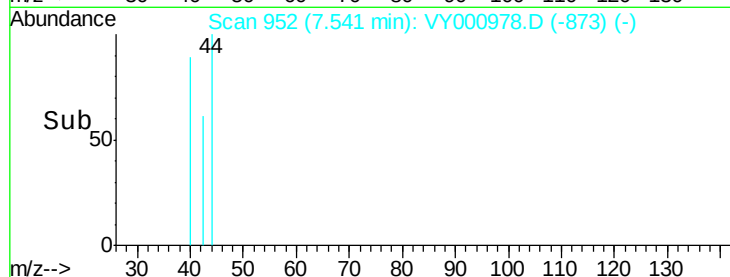
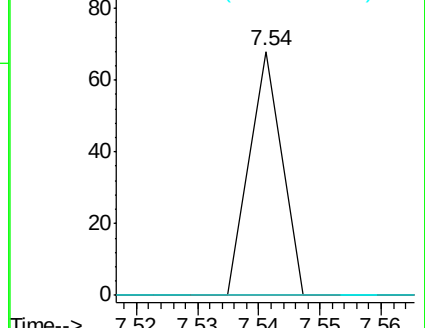
71 0.0 32.8 49.2#



Abundance Ion 42.00 (41.70 to 42.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Ion 71.00 (70.70 to 71.70): VY0



#30

Chloroform

Concen: 3.317 ug/l

RT: 7.52 min Scan# 948

Delta R.T. -0.01 min

Lab File: VY000978.D

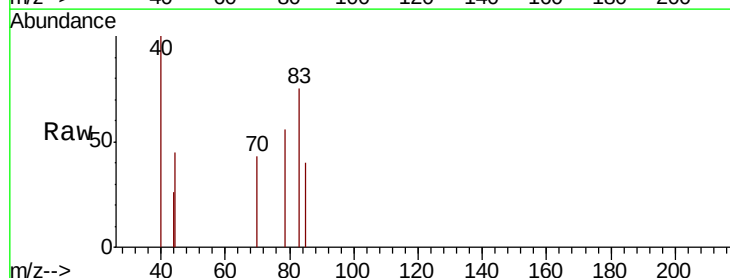
Acq: 17 Dec 2019 15:05

Tgt Ion: 83 Resp: 262

Ion Ratio Lower Upper

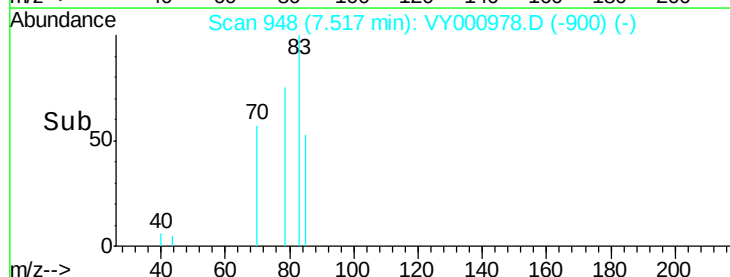
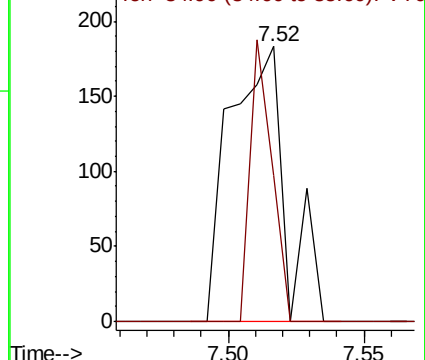
83 100

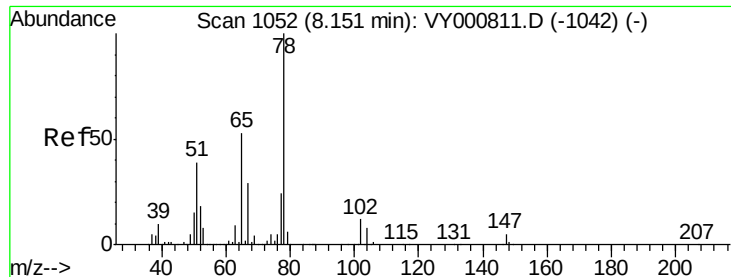
85 53.0 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

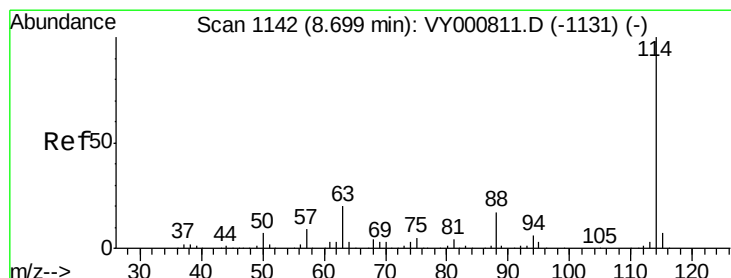
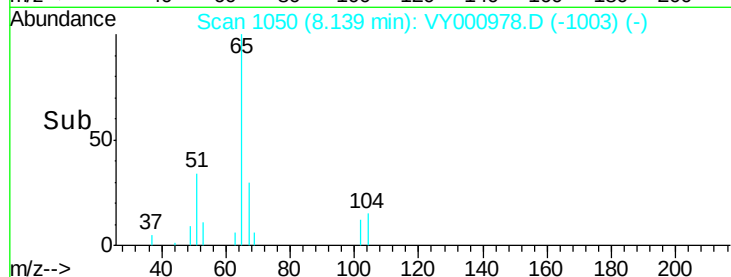
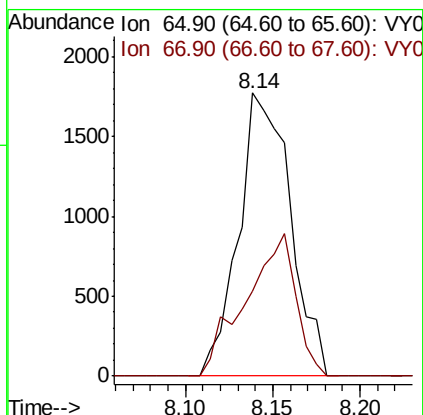
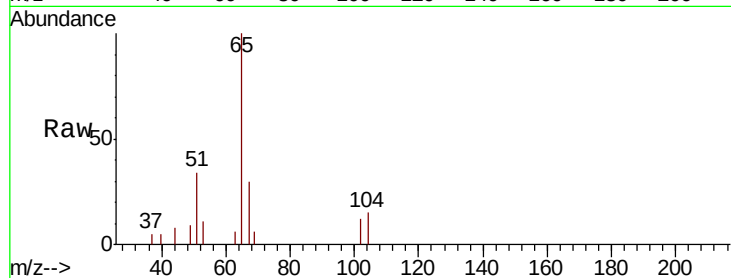




#33
 1,2-Dichloroethane-d4
 Concen: 92.659 ug/l
 RT: 8.14 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: VY000978.D
 Acq: 17 Dec 2019 15:05

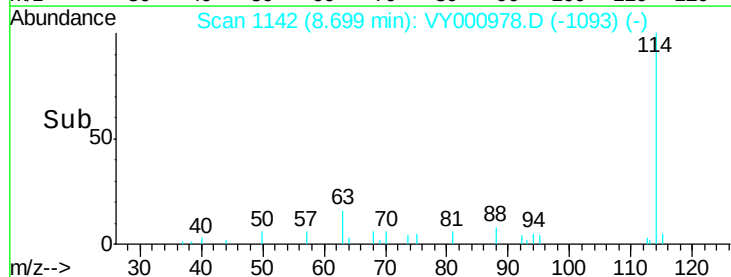
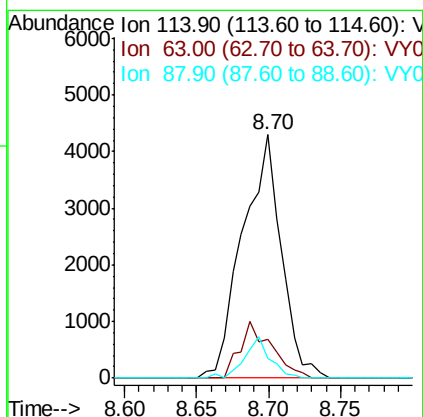
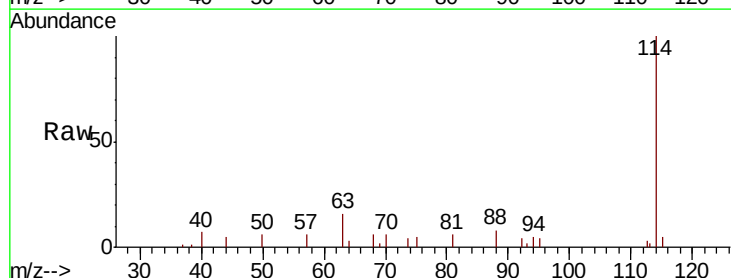
Instrument :
 MSVOA_Y
 ClientSampleId :
 EP-8RE

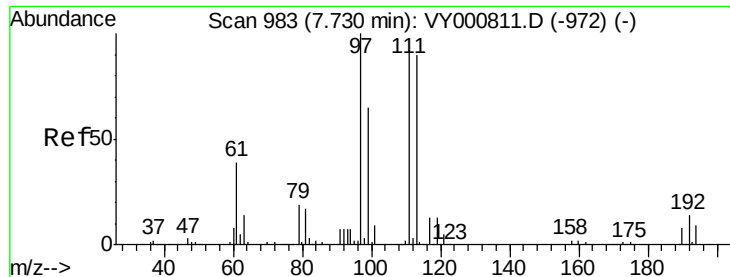
Tgt Ion: 65 Resp: 3640
 Ion Ratio Lower Upper
 65 100
 67 48.9 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VY000978.D
 Acq: 17 Dec 2019 15:05

Tgt Ion: 114 Resp: 8001
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 39.8
 88 8.3 0.0 33.2

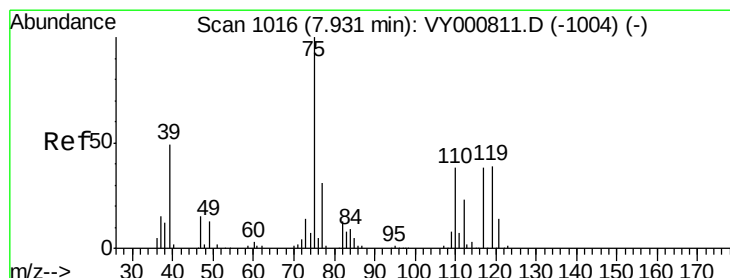
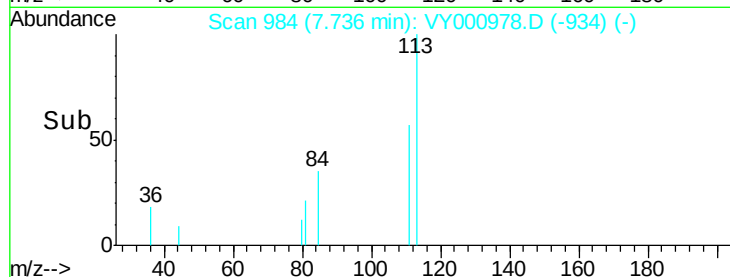
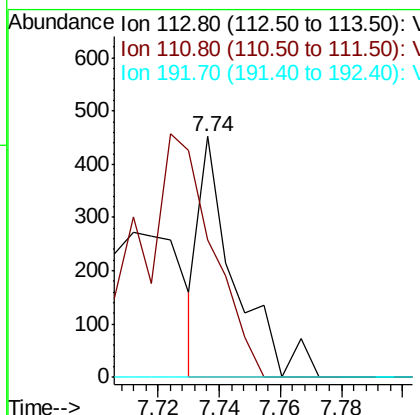
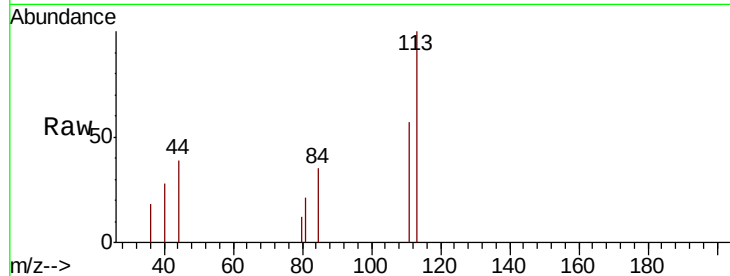




#35
 Dibromofluoromethane
 Concen: 7.785 ug/l
 RT: 7.74 min Scan# 984
 Delta R.T. 0.01 min
 Lab File: VY000978.D
 Acq: 17 Dec 2019 15:05

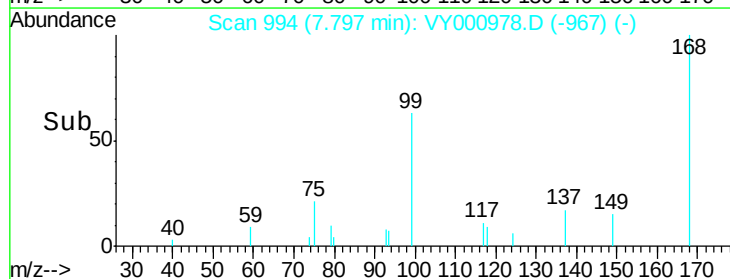
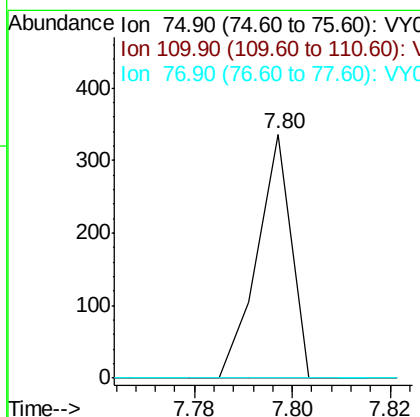
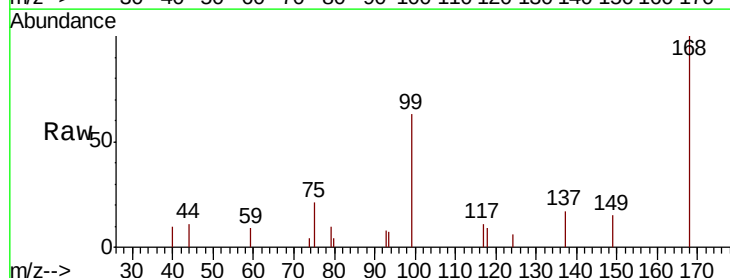
Instrument :
 MSVOA_Y
 ClientSampled :
 EP-8RE

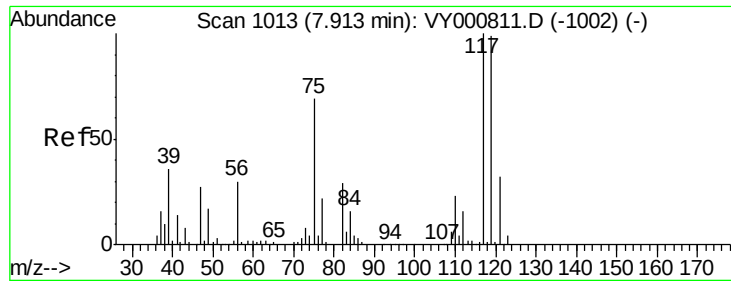
Tgt Ion: 113 Resp: 363
 Ion Ratio Lower Upper
 113 100
 111 0.0 82.4 123.6#
 192 0.0 14.2 21.2#



#36
 1,1-Dichloropropene
 Concen: 2.024 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY000978.D
 Acq: 17 Dec 2019 15:05

Tgt Ion: 75 Resp: 161
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.9 53.7#
 77 0.0 24.7 37.1#

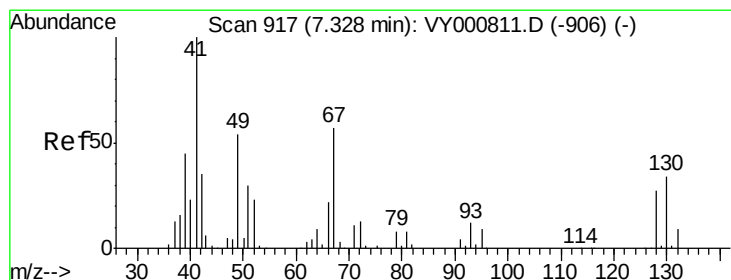
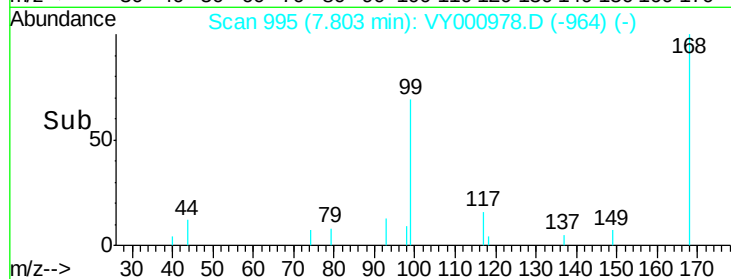
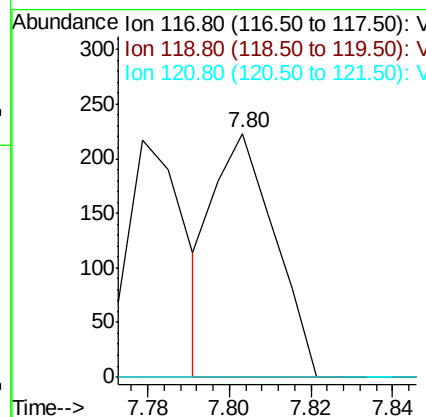
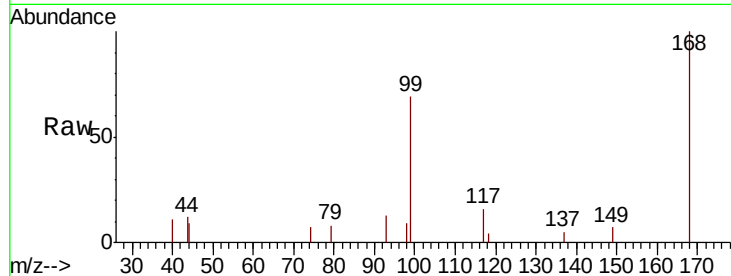




#38
Carbon Tetrachloride
Concen: 3.260 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.11 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

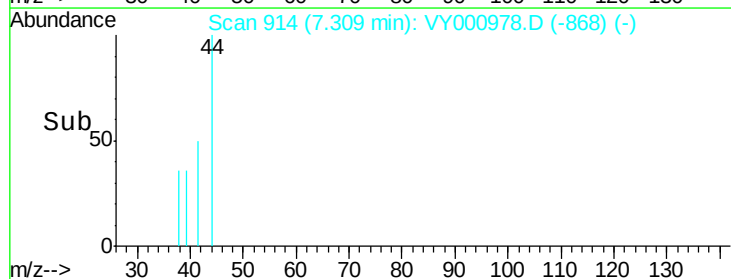
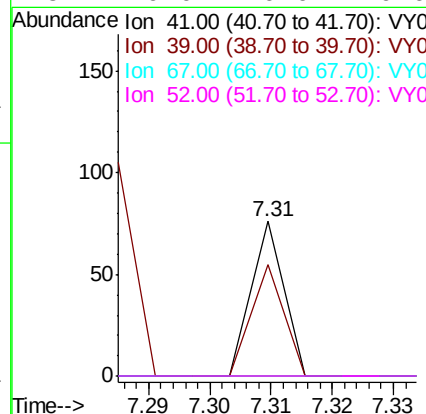
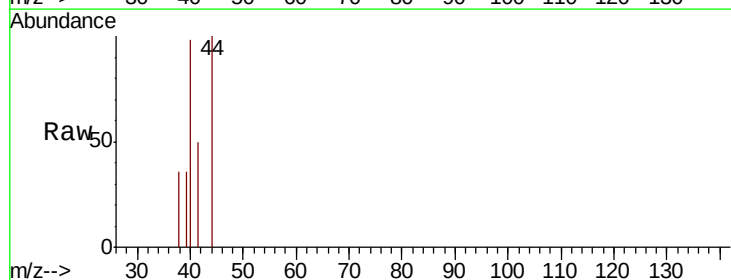
Instrument :
MSVOA_Y
ClientSampleId :
EP-8RE

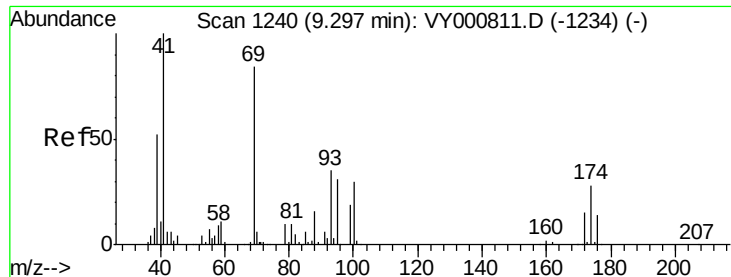
Tgt Ion: 117 Resp: 231
Ion Ratio Lower Upper
117 100
119 0.0 79.3 118.9#
121 0.0 25.5 38.3#



#41
Methacrylonitrile
Concen: 1.157 ug/l
RT: 7.31 min Scan# 914
Delta R.T. -0.02 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

Tgt Ion: 41 Resp: 28
Ion Ratio Lower Upper
41 100
39 71.4 95.7 143.5#
67 0.0 0.0 0.0
52 0.0 0.0 0.0

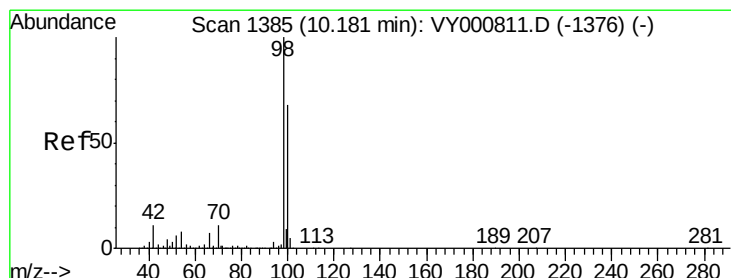
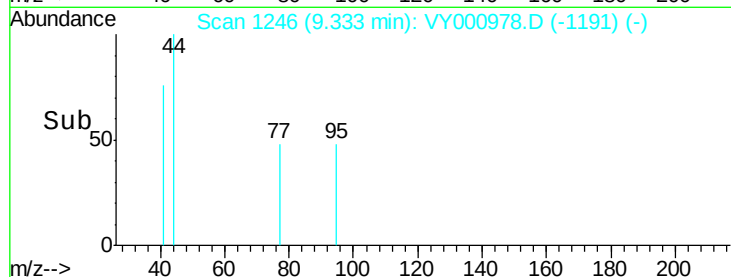
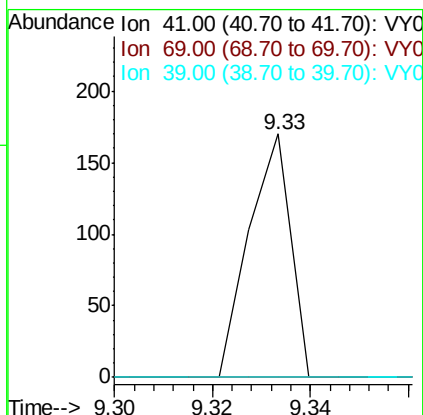
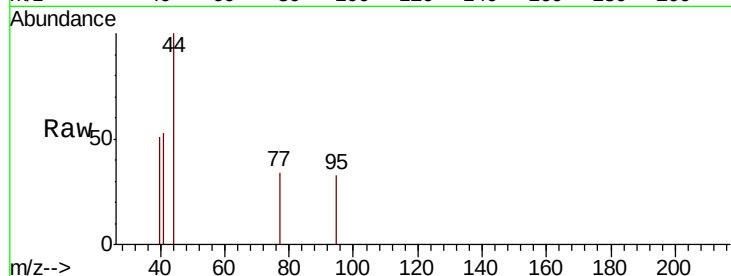




#48
Methyl methacrylate
Concen: 2.627 ug/l
RT: 9.33 min Scan# 1246
Delta R.T. 0.04 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

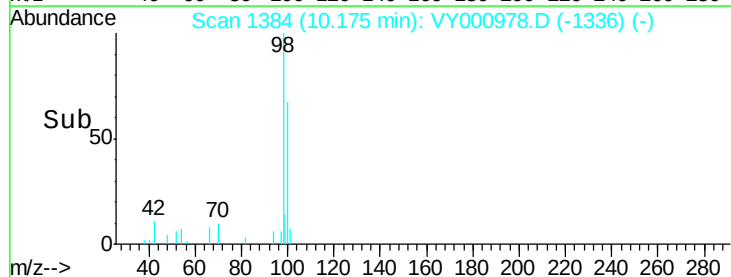
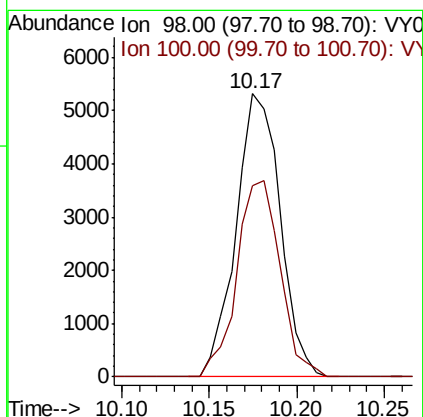
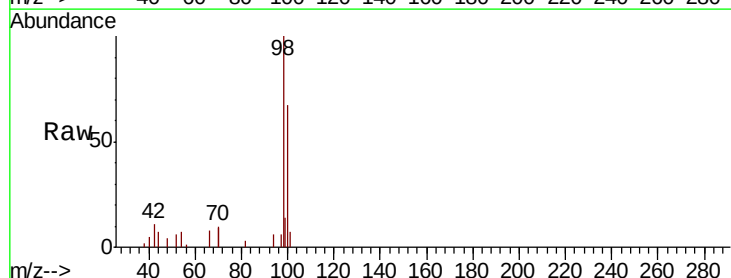
Instrument :
MSVOA_Y
ClientSampleId :
EP-8RE

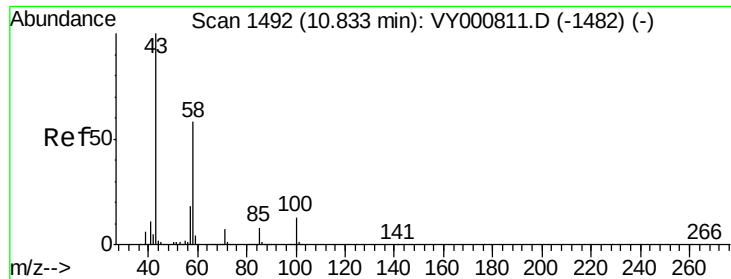
Tgt Ion: 41 Resp: 100
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 0.0 40.9 61.3#



#50
Toluene-d8
Concen: 50.160 ug/l
RT: 10.17 min Scan# 1384
Delta R.T. -0.01 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

Tgt Ion: 98 Resp: 9351
Ion Ratio Lower Upper
98 100
100 68.0 53.1 79.7

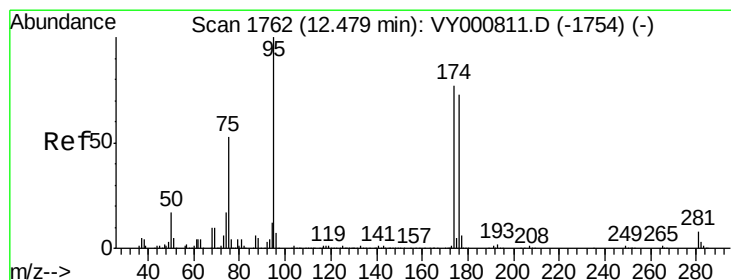
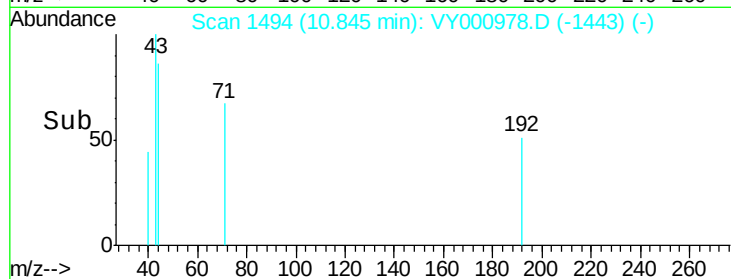
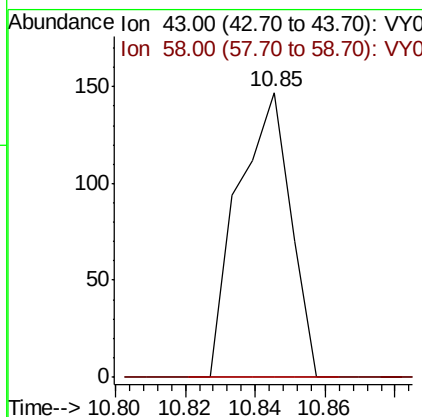
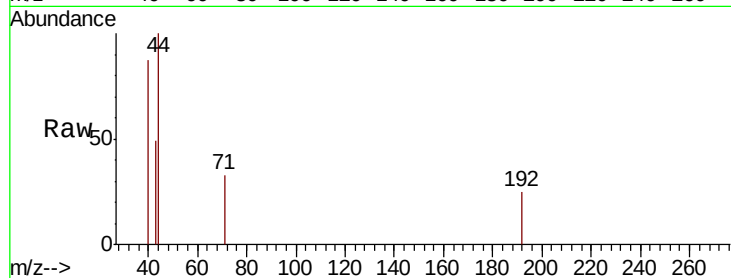




#59
2-Hexanone
Concen: 4.756 ug/l
RT: 10.85 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

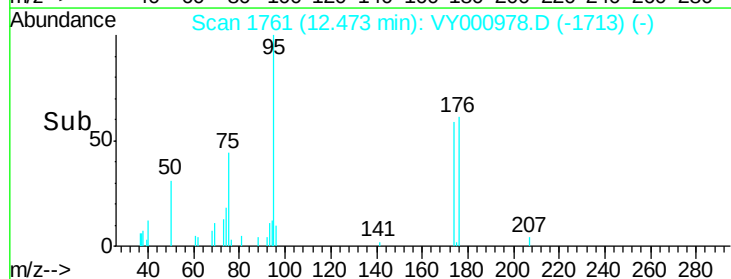
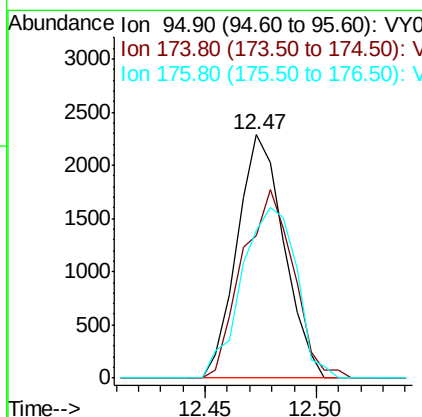
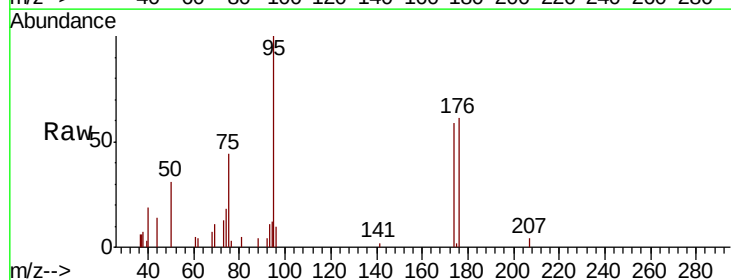
Instrument :
MSVOA_Y
ClientSampled :
EP-8RE

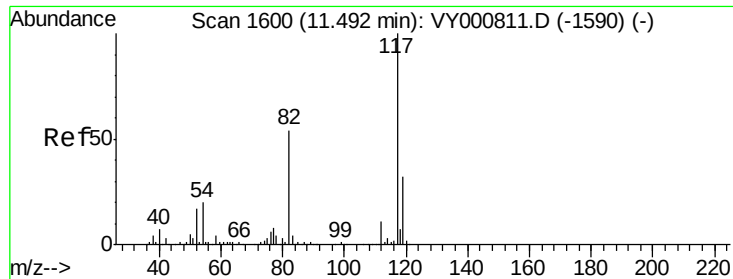
Tgt Ion: 43 Resp: 155
Ion Ratio Lower Upper
43 100
58 0.0 29.0 87.1#



#62
4-Bromofluorobenzene
Concen: 47.792 ug/l
RT: 12.47 min Scan# 1761
Delta R.T. -0.01 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

Tgt Ion: 95 Resp: 3346
Ion Ratio Lower Upper
95 100
174 84.2 0.0 150.6
176 82.1 0.0 145.2

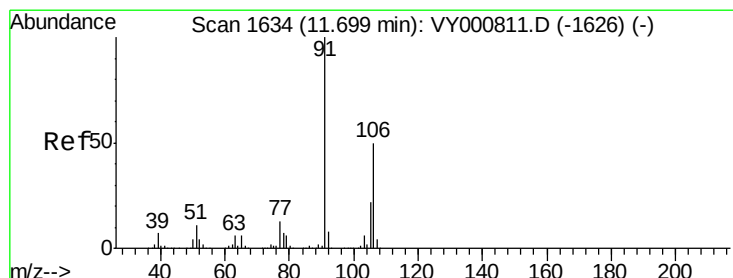
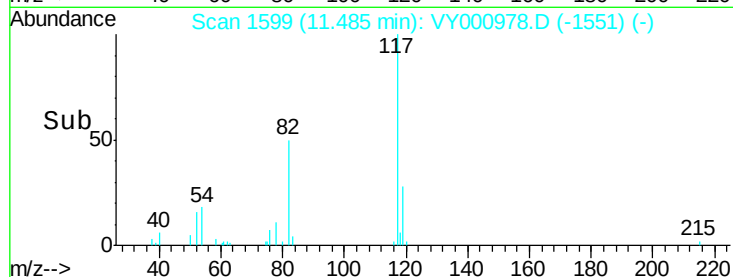
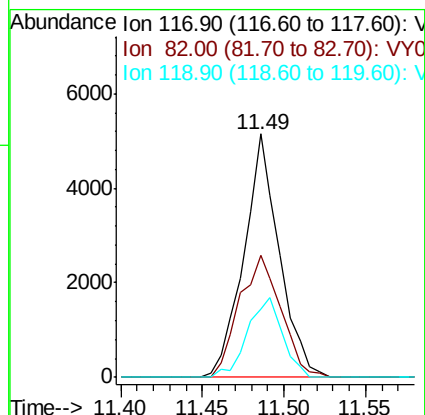
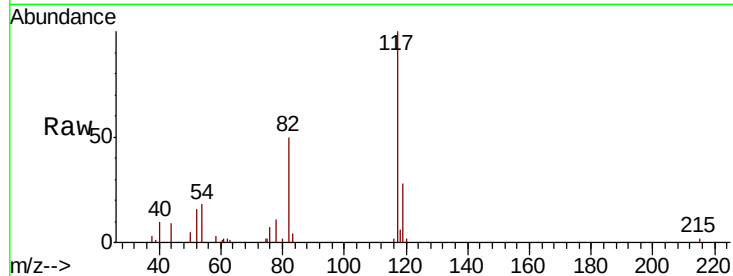




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

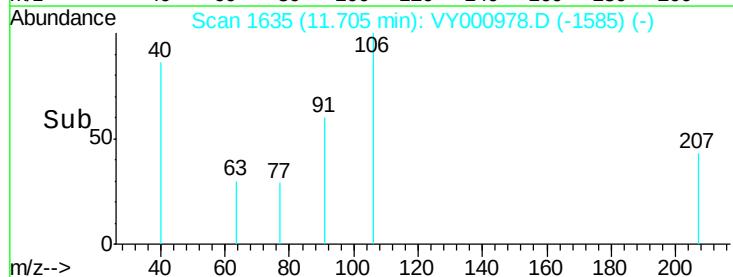
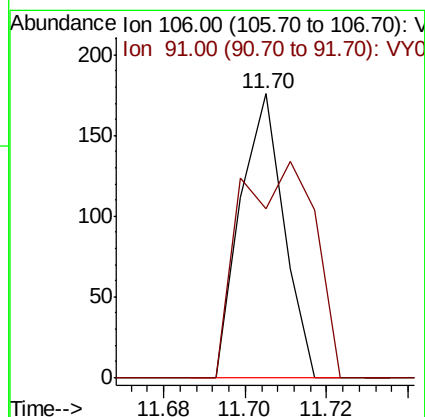
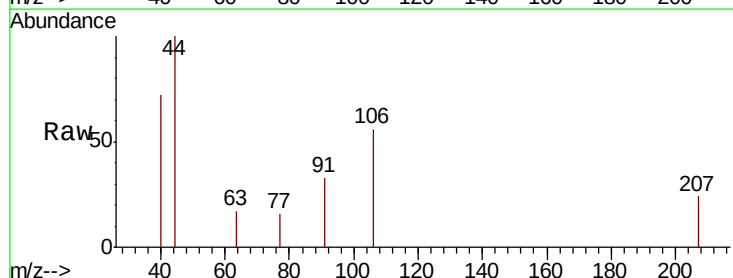
Instrument :
MSVOA_Y
ClientSampleId :
EP-8RE

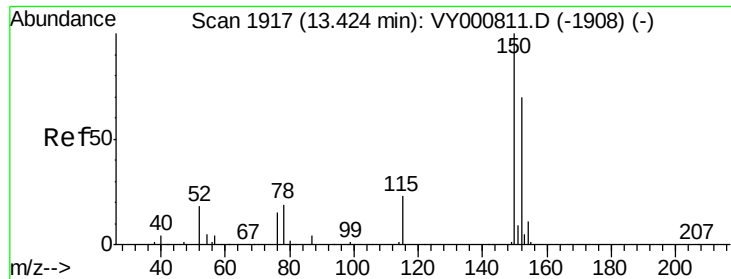
Tgt Ion:117 Resp: 7822
Ion Ratio Lower Upper
117 100
82 50.1 43.1 64.7
119 28.1 25.3 37.9



#68
m/p-Xylenes
Concen: 1.144 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

Tgt Ion:106 Resp: 130
Ion Ratio Lower Upper
106 100
91 131.5 159.6 239.4#



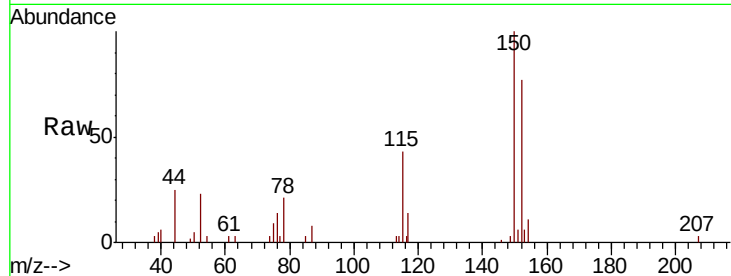


#72

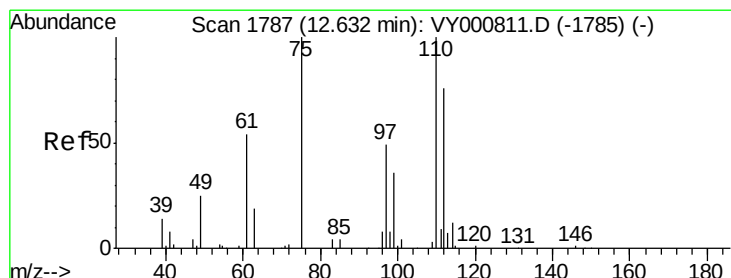
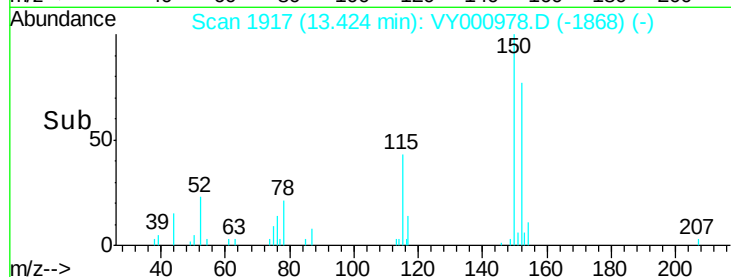
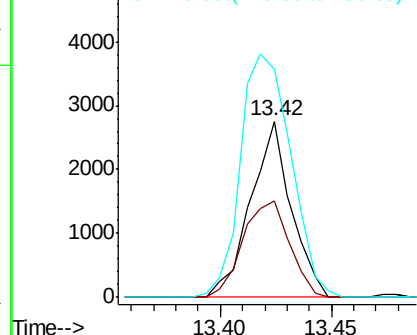
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

Instrument :
MSVOA_Y
ClientSampled :
EP-8RE

Tgt Ion:152 Resp: 3515
Ion Ratio Lower Upper
152 100
115 62.7 29.3 87.8
150 171.1 0.0 351.2



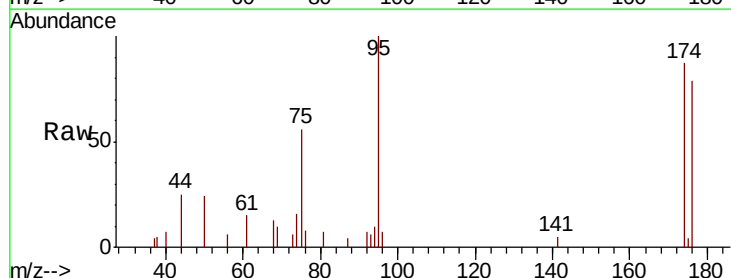
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



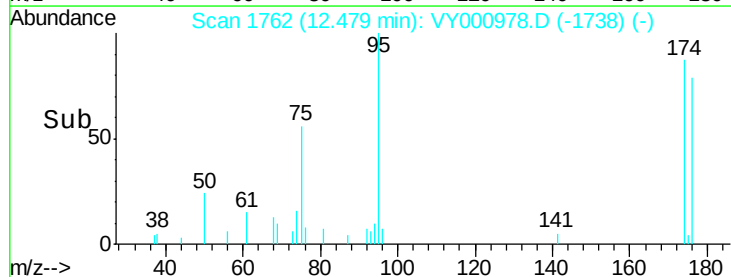
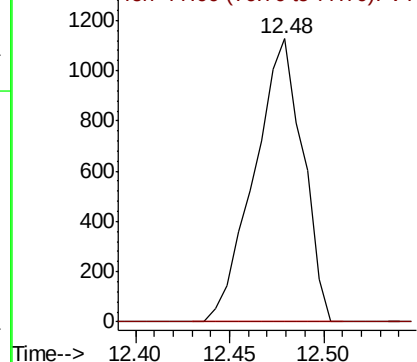
#76

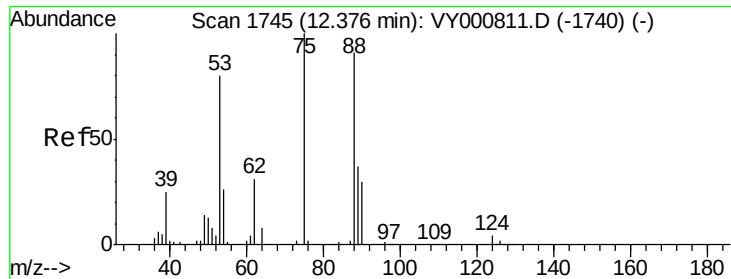
1,2,3-Trichloropropane
Concen: 50.446 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.15 min
Lab File: VY000978.D
Acq: 17 Dec 2019 15:05

Tgt Ion: 75 Resp: 2009
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 99.091 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

Instrument :

MSVOA_Y

ClientSampled :

EP-8RE

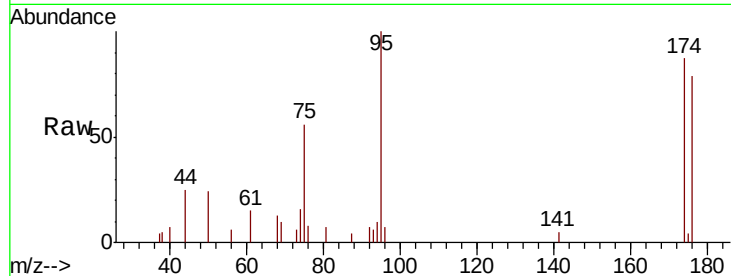
Tgt Ion: 75 Resp: 2009

Ion Ratio Lower Upper

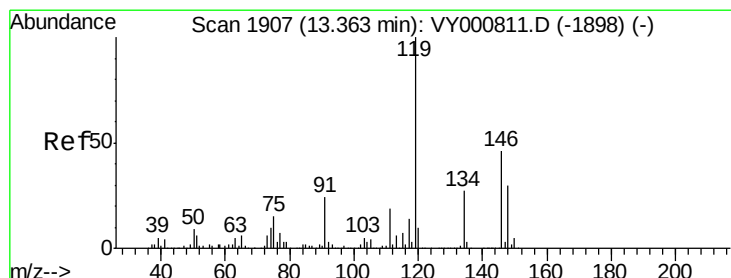
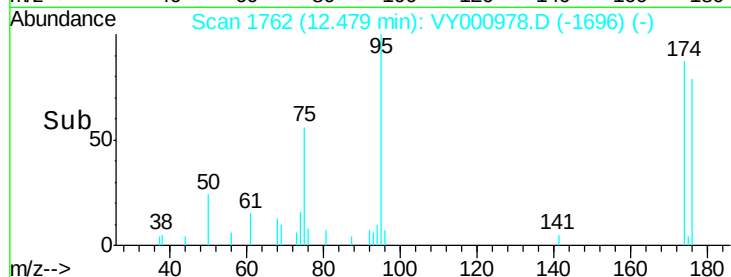
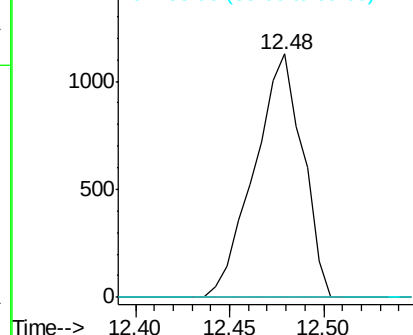
75 100

53 0.0 64.6 96.8#

89 0.0 33.6 50.4#



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 53.00 (52.70 to 53.70): VY0
Ion 88.90 (88.60 to 89.60): VY0



#87

1,3-Dichlorobenzene

Concen: 1.294 ug/l

RT: 13.44 min Scan# 1920

Delta R.T. 0.08 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

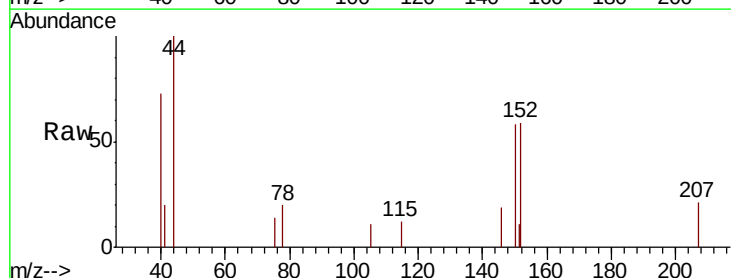
Tgt Ion: 146 Resp: 154

Ion Ratio Lower Upper

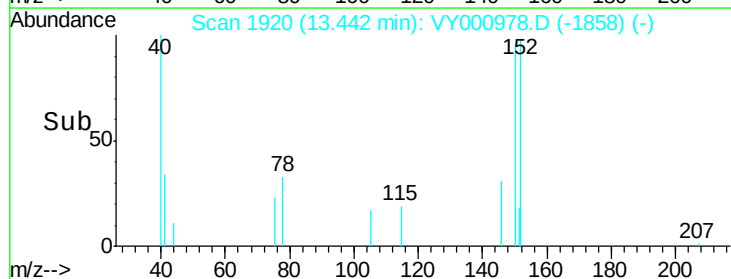
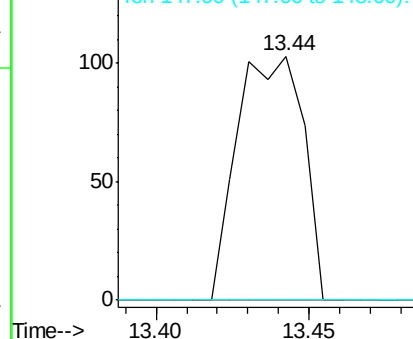
146 100

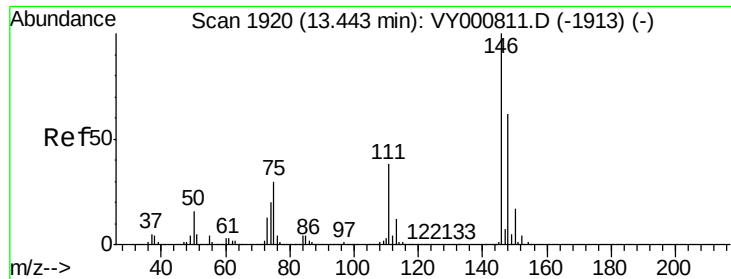
111 0.0 20.0 60.0#

148 0.0 32.1 96.5#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

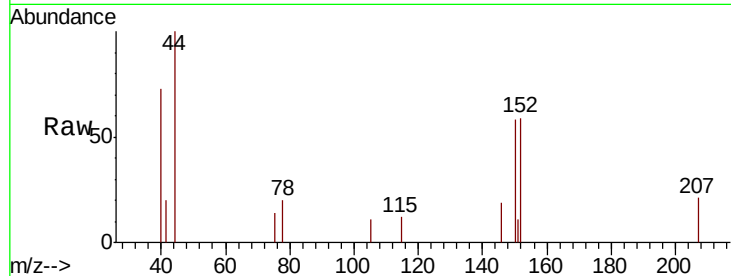




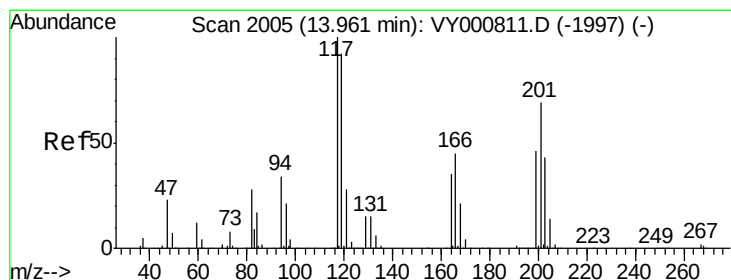
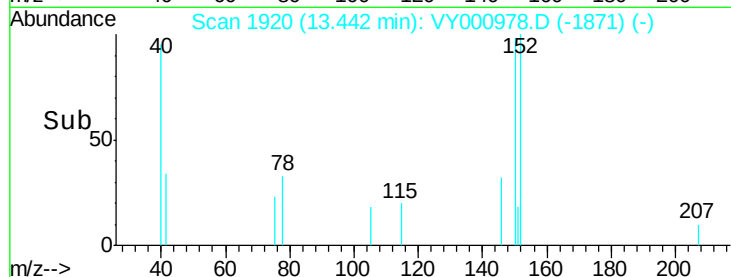
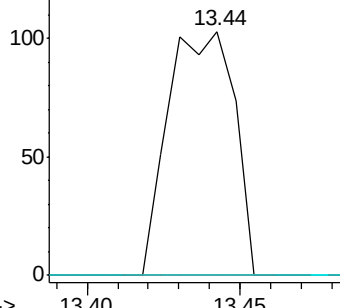
#88
 1,4-Dichlorobenzene
 Concen: 1.307 ug/l
 RT: 13.44 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VY000978.D
 Acq: 17 Dec 2019 15:05

Instrument :
 MSVOA_Y
 ClientSampled :
 EP-8RE

Tgt Ion:146 Resp: 154
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.0 59.9#
 148 0.0 31.7 95.1#

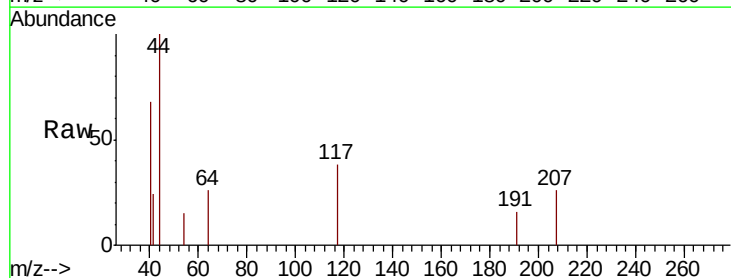


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

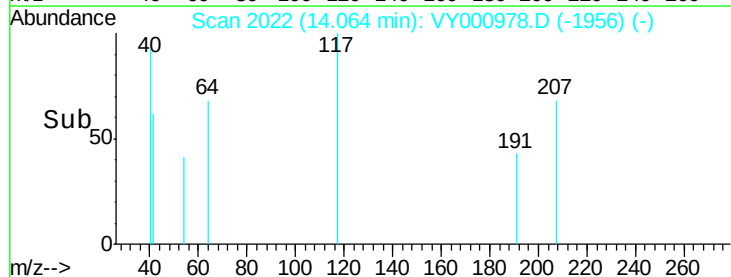
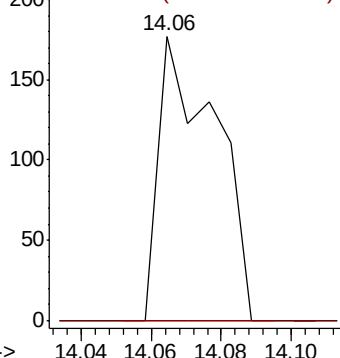


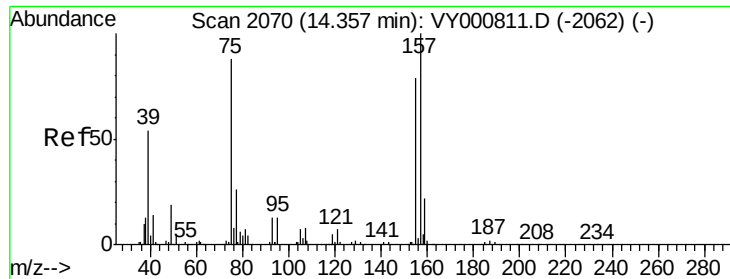
#90
 Hexachloroethane
 Concen: 4.405 ug/l
 RT: 14.06 min Scan# 2022
 Delta R.T. 0.10 min
 Lab File: VY000978.D
 Acq: 17 Dec 2019 15:05

Tgt Ion:117 Resp: 200
 Ion Ratio Lower Upper
 117 100
 201 0.0 34.0 102.0#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 7.474 ug/l

RT: 14.58 min Scan# 2106

Delta R.T. 0.22 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

Instrument :

MSVOA_Y

ClientSampled :

EP-8RE

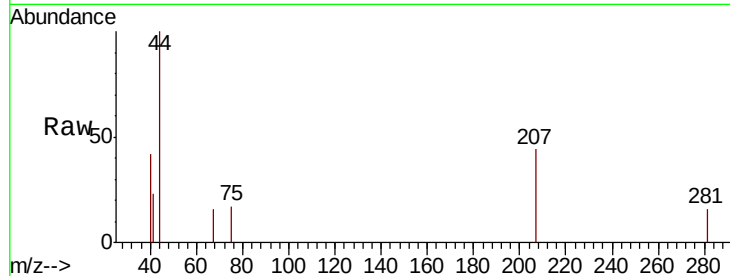
Tgt Ion: 75 Resp: 69

Ion Ratio Lower Upper

75 100

155 0.0 44.3 132.9#

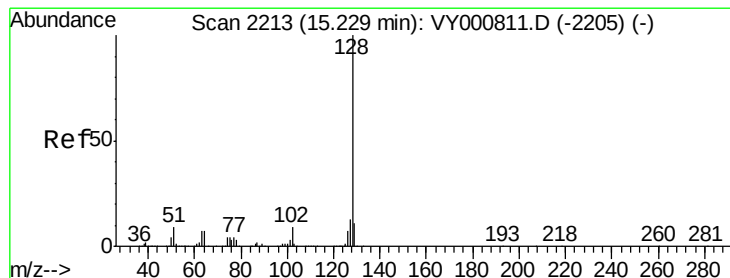
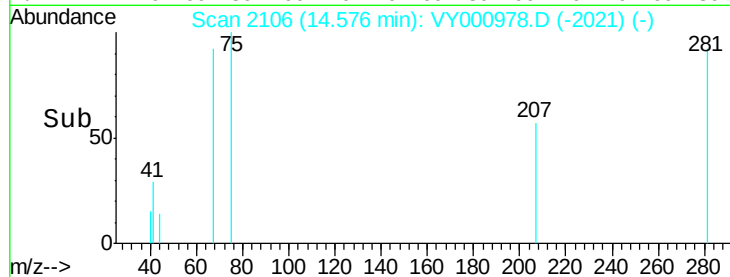
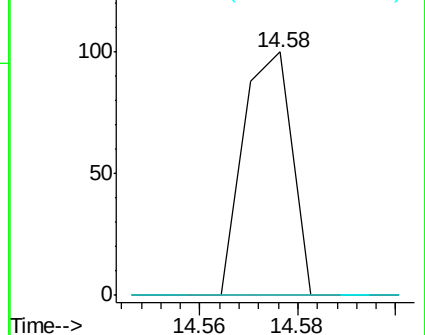
157 0.0 56.3 168.9#



Abundance Ion 74.90 (74.60 to 75.60): VY000978.D (-2106) (-)

Ion 154.80 (154.50 to 155.50): VY000978.D (-2106) (-)

Ion 156.80 (156.50 to 157.50): VY000978.D (-2106) (-)



#95

Naphthalene

Concen: 1.593 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.01 min

Lab File: VY000978.D

Acq: 17 Dec 2019 15:05

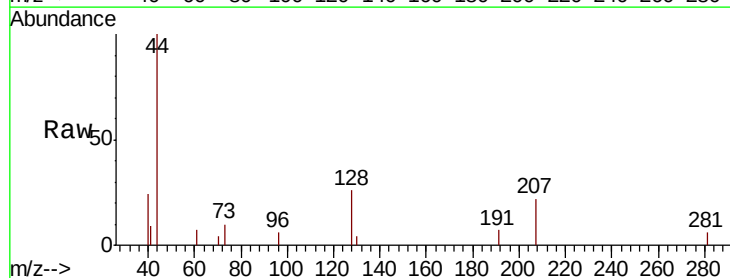
Tgt Ion: 128 Resp: 268

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 15.7 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VY000978.D (-2214) (-)

Ion 127.00 (126.70 to 127.70): VY000978.D (-2214) (-)

Ion 129.00 (128.70 to 129.70): VY000978.D (-2214) (-)

