

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY121719\
 Data File : VY000980.D
 Acq On : 17 Dec 2019 15:50
 Operator : SY/MD
 Sample : K6324-01
 Misc : 7.34G/5ML/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EP-9

Quant Time: Dec 18 05:51:48 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	8222	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	17578	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	17771	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	9125	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.14	65	6988	79.99	ug/l	0.00
Spiked Amount			Recovery	=	159.98%	
35) Dibromofluoromethane	7.72	113	3304	32.25	ug/l	0.00
Spiked Amount			Recovery	=	64.50%	
50) Toluene-d8	10.18	98	21316	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
62) 4-Bromofluorobenzene	12.48	95	8190	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	

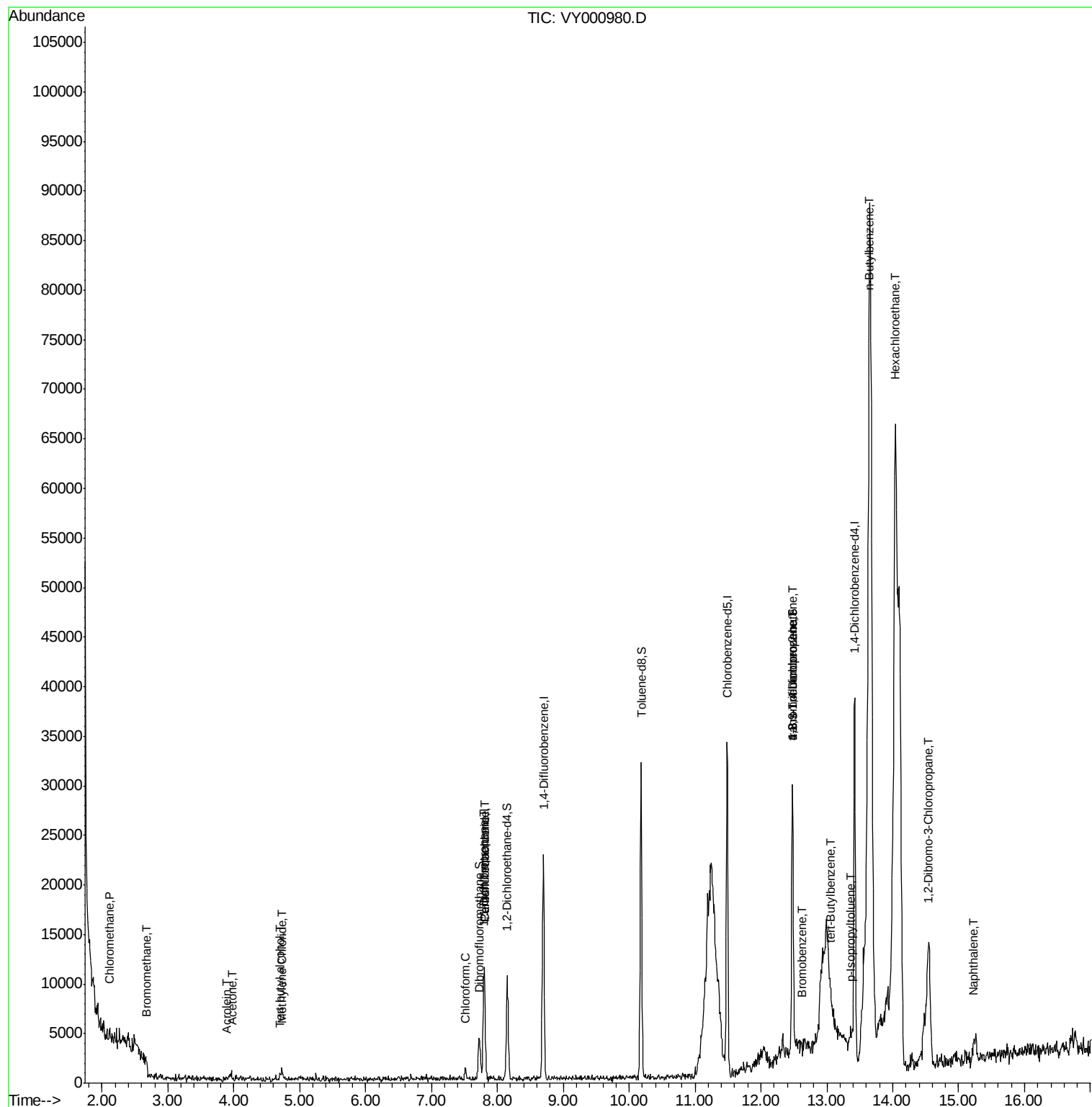
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	493	4.519	ug/l #	83
5) Bromomethane	2.68	94	337	4.406	ug/l	85
11) Tert butyl alcohol	4.69	59	43	4.892	ug/l #	74
13) Acrolein	3.90	56	45	5.197	ug/l #	15
16) Acetone	3.97	43	1050	52.391	ug/l #	61
20) Methylene Chloride	4.72	84	687	6.503	ug/l #	83
30) Chloroform	7.52	83	708	4.031	ug/l #	83
36) 1,1-Dichloropropene	7.79	75	759	4.343	ug/l #	48
38) Carbon Tetrachloride	7.80	117	1084	6.964	ug/l #	11
76) 1,2,3-Trichloropropane	12.47	75	4113	39.783	ug/l #	100
77) Bromobenzene	12.63	156	218	1.384	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.47	75	4113	78.146	ug/l #	17
83) tert-Butylbenzene	13.06	119	740	1.463	ug/l	76
86) p-Isopropyltoluene	13.36	119	1517	2.371	ug/l #	55
89) n-Butylbenzene	13.65	91	26905	41.594	ug/l #	57
90) Hexachloroethane	14.03	117	3341	28.348	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.53	75	283	11.808	ug/l #	1
95) Naphthalene	15.22	128	509	1.166	ug/l #	79

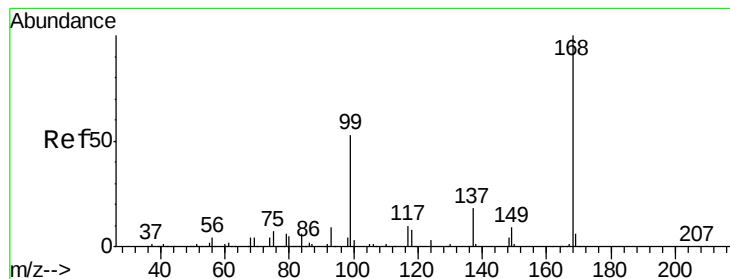
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_Y\DATA\VY121719\
Data File : VY000980.D
Acq On : 17 Dec 2019 15:50
Operator : SY/MD
Sample : K6324-01
Misc : 7.34G/5ML/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
EP-9

Quant Time: Dec 18 05:51:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y112719S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 27 12:40:47 2019
Response via : Initial Calibration

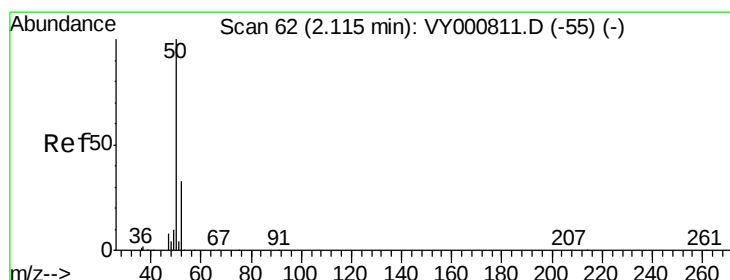
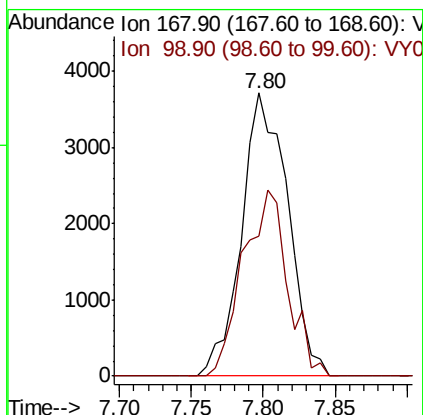
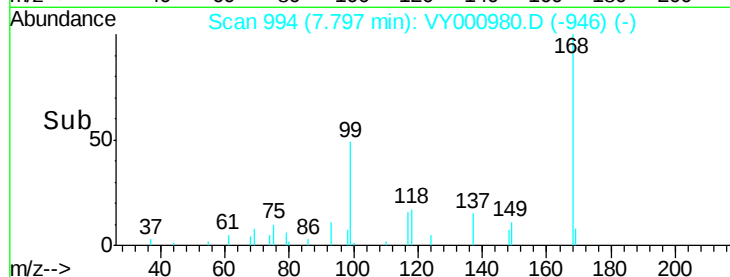
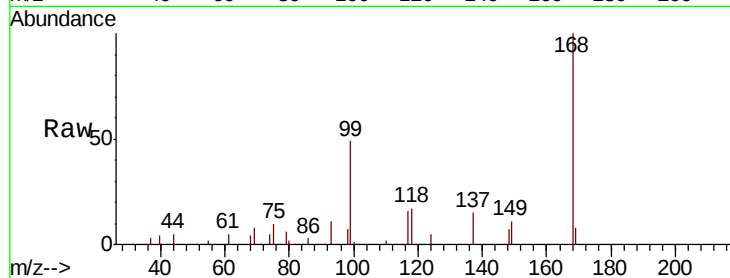




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.01 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

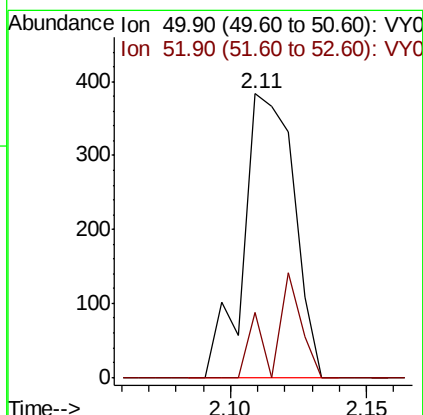
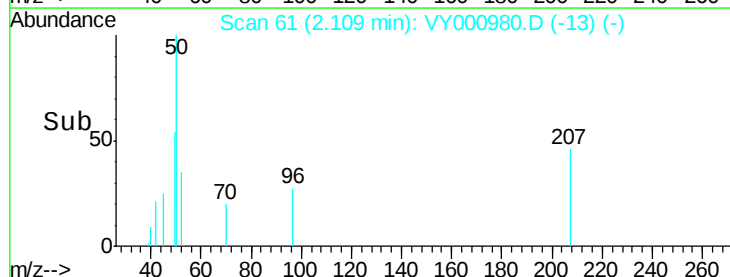
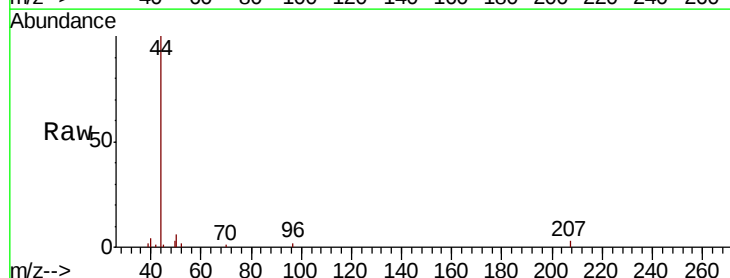
Instrument :
MSVOA_Y
ClientSampled :
EP-9

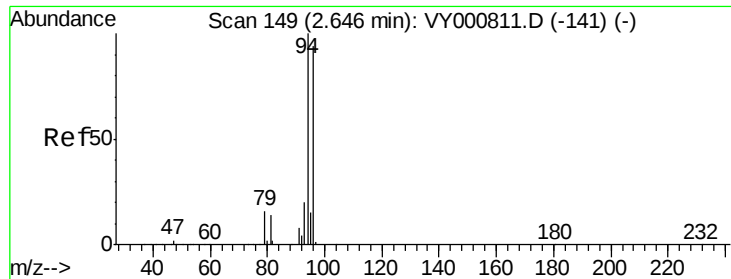
Tgt Ion: 168 Resp: 8222
Ion Ratio Lower Upper
168 100
99 49.4 45.0 67.6



#3
Chloromethane
Concen: 4.519 ug/l
RT: 2.11 min Scan# 61
Delta R.T. -0.01 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

Tgt Ion: 50 Resp: 493
Ion Ratio Lower Upper
50 100
52 23.0 26.0 39.0#





#5

Bromomethane

Concen: 4.406 ug/l

RT: 2.68 min Scan# 154

Delta R.T. 0.03 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

Instrument :

MSVOA_Y

ClientSampled :

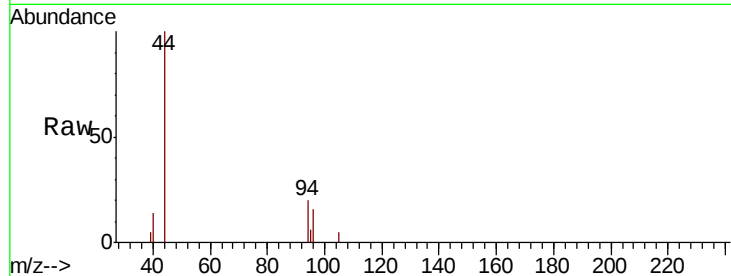
EP-9

Tgt Ion: 94 Resp: 337

Ion Ratio Lower Upper

94 100

96 79.5 75.2 112.8



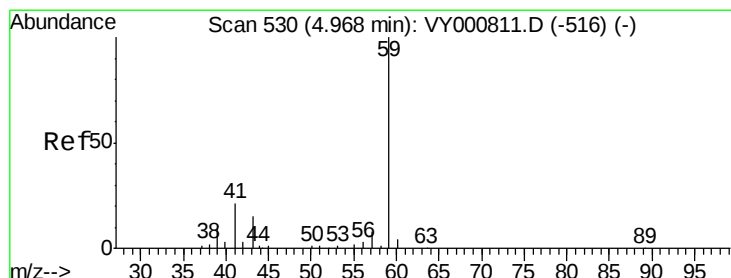
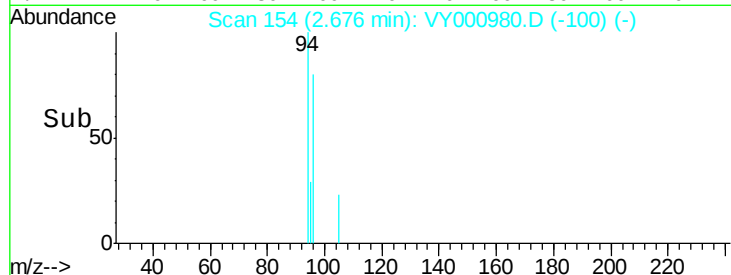
Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

2.68

2.65 2.70

Time-->



#11

Tert butyl alcohol

Concen: 4.892 ug/l

RT: 4.69 min Scan# 485

Delta R.T. -0.27 min

Lab File: VY000980.D

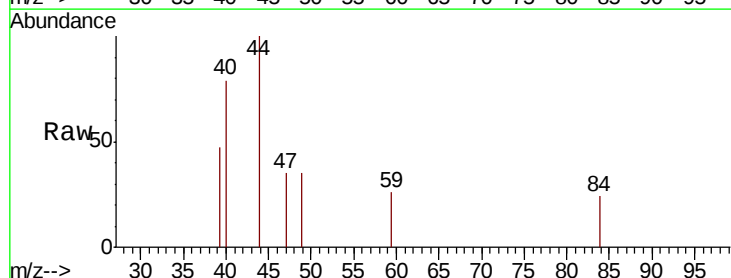
Acq: 17 Dec 2019 15:50

Tgt Ion: 59 Resp: 43

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



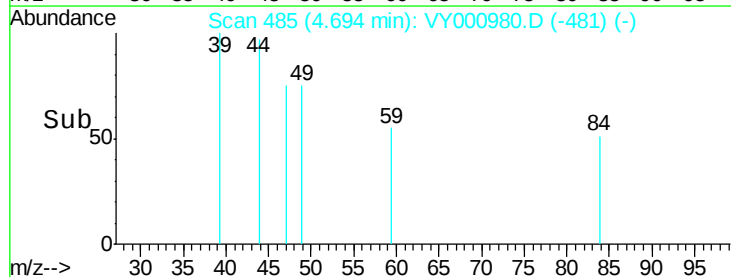
Abundance Ion 59.00 (58.70 to 59.70): VY0

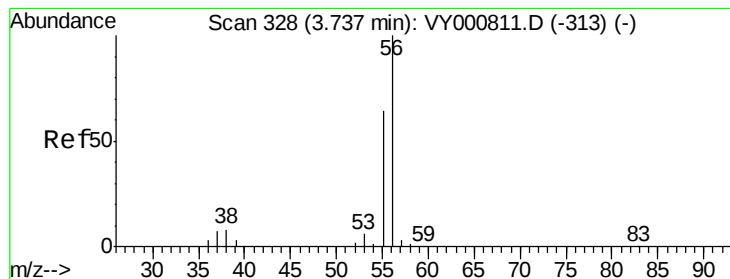
Ion 57.00 (56.70 to 57.70): VY0

4.69

4.68 4.70 4.72

Time-->





#13

Acrolein

Concen: 5.197 ug/l

RT: 3.90 min Scan# 355

Delta R.T. 0.16 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

Instrument :

MSVOA_Y

ClientSampleId :

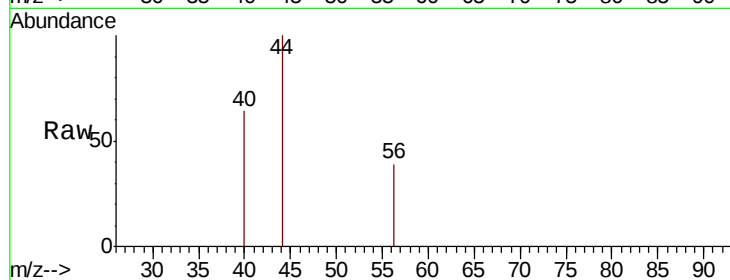
EP-9

Tgt Ion: 56 Resp: 45

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

3.90

80

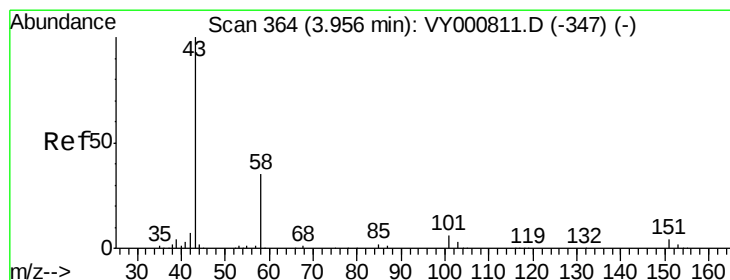
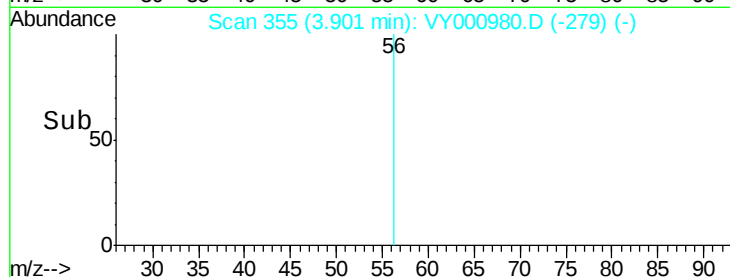
60

40

20

0

Time-->



#16

Acetone

Concen: 52.391 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.01 min

Lab File: VY000980.D

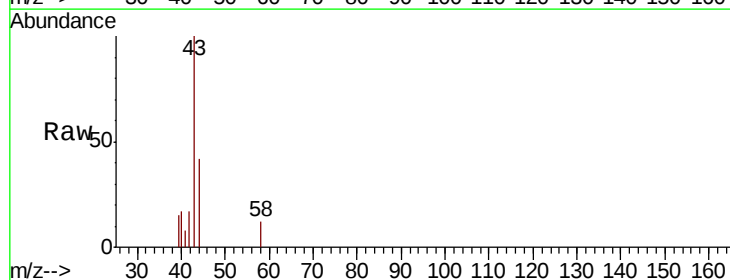
Acq: 17 Dec 2019 15:50

Tgt Ion: 43 Resp: 1050

Ion Ratio Lower Upper

43 100

58 12.4 28.0 42.0#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.97

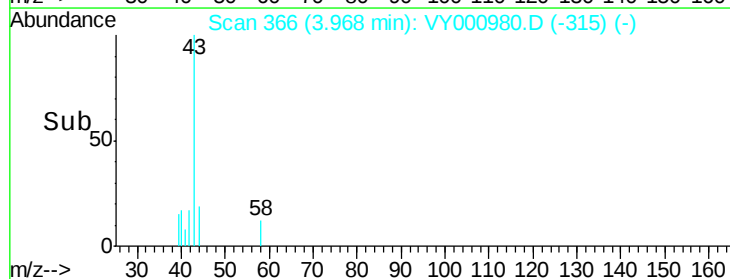
600

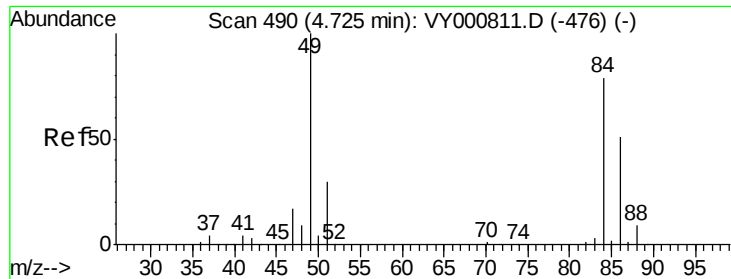
400

200

0

Time-->

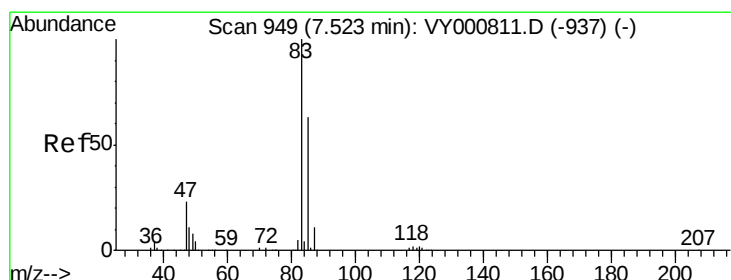
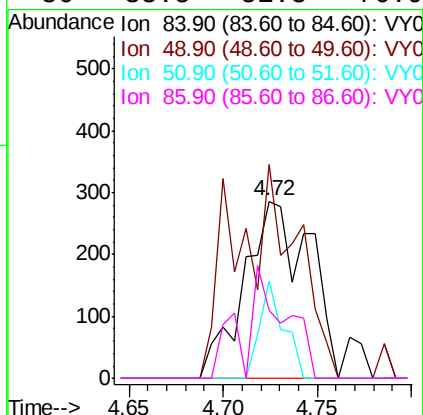
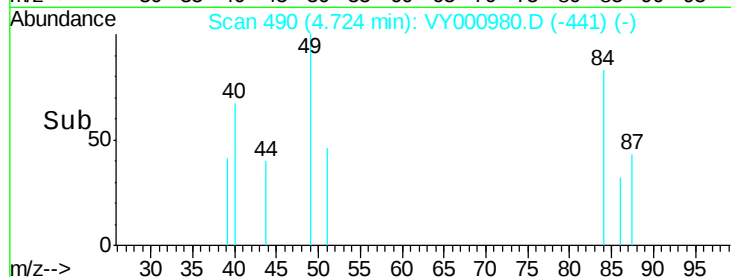
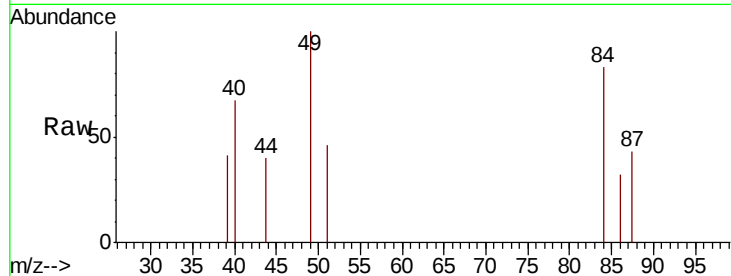




#20
Methylene Chloride
Concen: 6.503 ug/l
RT: 4.72 min Scan# 490
Delta R.T. -0.00 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

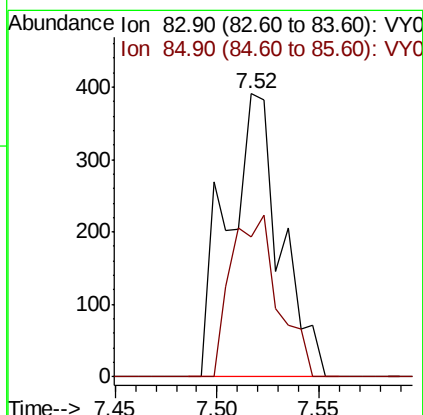
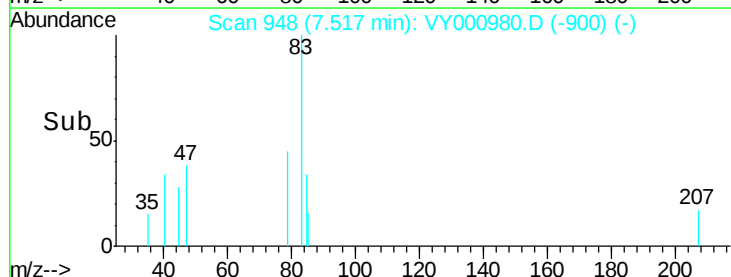
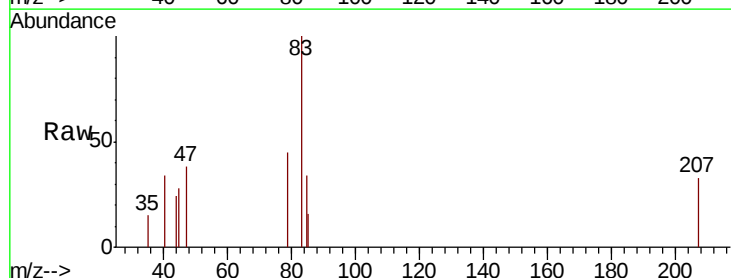
Instrument :
MSVOA_Y
ClientSampleId :
EP-9

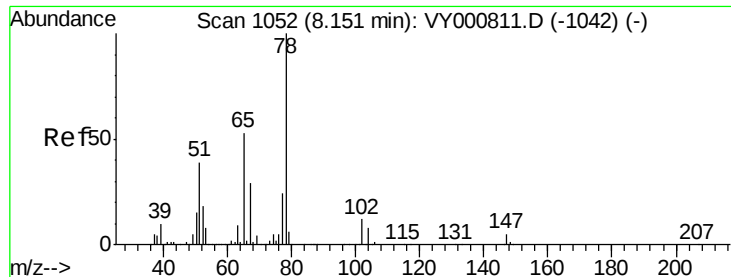
Tgt Ion: 84 Resp: 687
Ion Ratio Lower Upper
84 100
49 120.6 101.3 151.9
51 55.2 30.6 45.8#
86 38.5 51.3 76.9#



#30
Chloroform
Concen: 4.031 ug/l
RT: 7.52 min Scan# 948
Delta R.T. -0.01 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

Tgt Ion: 83 Resp: 708
Ion Ratio Lower Upper
83 100
85 49.6 50.4 75.6#





#33

1,2-Dichloroethane-d4

Concen: 79.986 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

Instrument :

MSVOA_Y

ClientSampled :

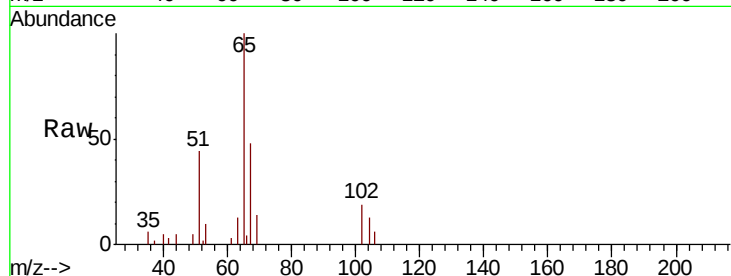
EP-9

Tgt Ion: 65 Resp: 6988

Ion Ratio Lower Upper

65 100

67 55.7 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VY000980.D (-1003) (-)

Ion 66.90 (66.60 to 67.60): VY000980.D (-1003) (-)

8.14

3000

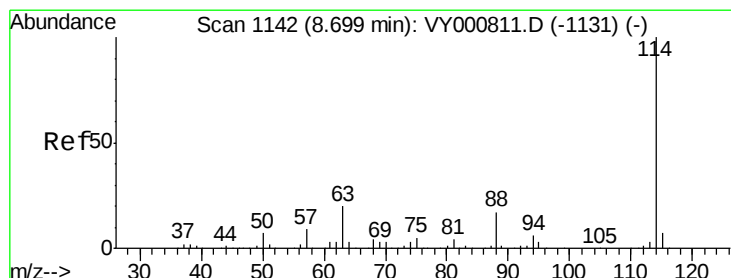
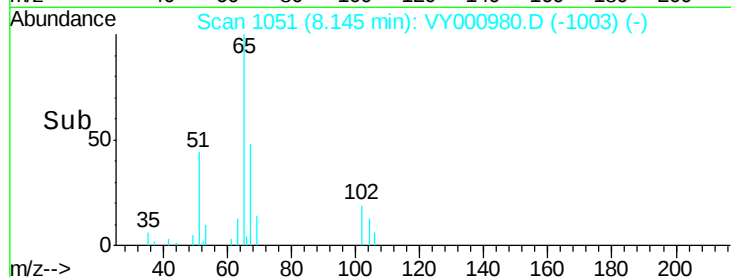
2000

1000

0

Time-->

8.10 8.15 8.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

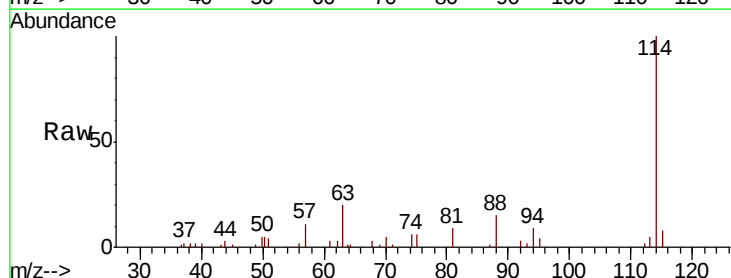
Tgt Ion: 114 Resp: 17578

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.8

88 15.4 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): VY000980.D (-1093) (-)

Ion 63.00 (62.70 to 63.70): VY000980.D (-1093) (-)

Ion 87.90 (87.60 to 88.60): VY000980.D (-1093) (-)

8.70

12000

10000

8000

6000

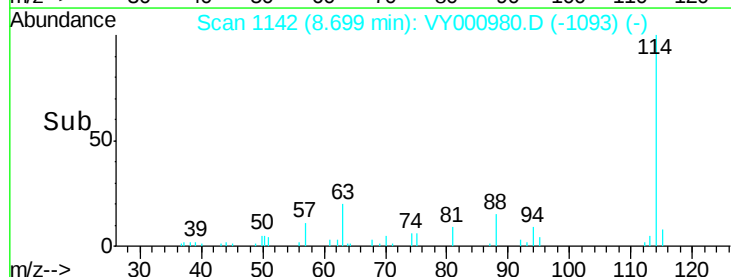
4000

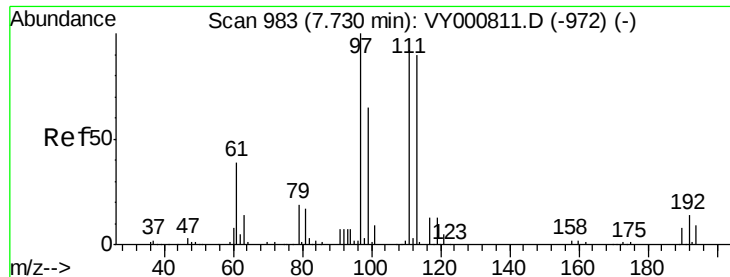
2000

0

Time-->

8.65 8.70 8.75





#35

Dibromofluoromethane

Concen: 32.252 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.01 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

Instrument :

MSVOA_Y

ClientSampleId :

EP-9

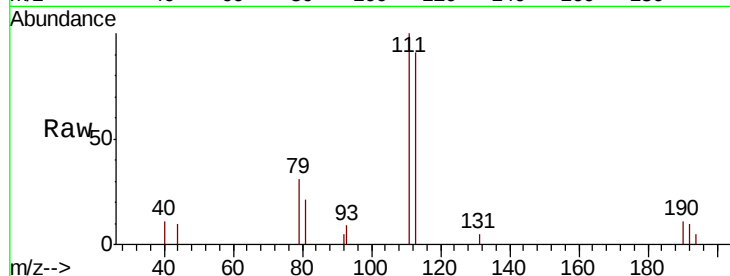
Tgt Ion:113 Resp: 3304

Ion Ratio Lower Upper

113 100

111 93.1 82.4 123.6

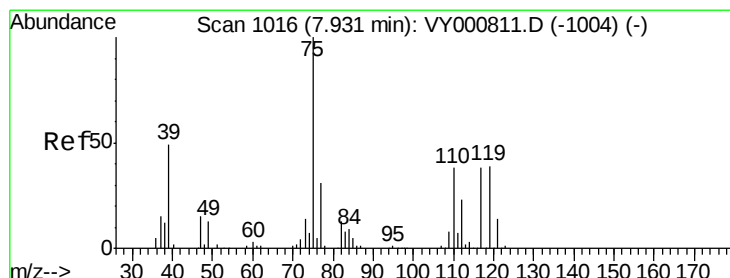
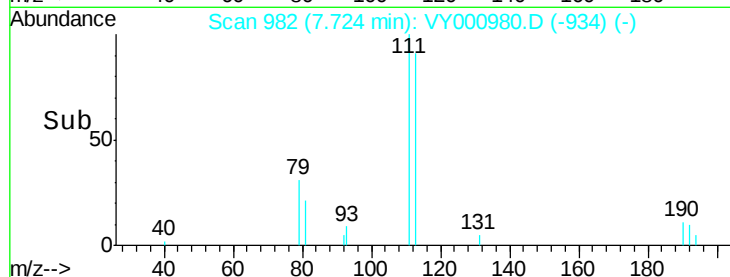
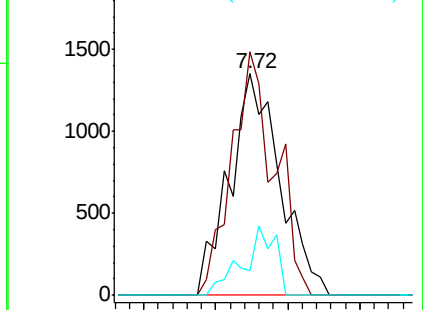
192 19.7 14.2 21.2



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: 4.343 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.14 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

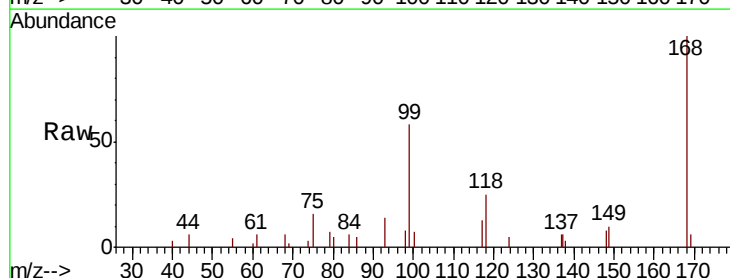
Tgt Ion: 75 Resp: 759

Ion Ratio Lower Upper

75 100

110 7.8 17.9 53.7#

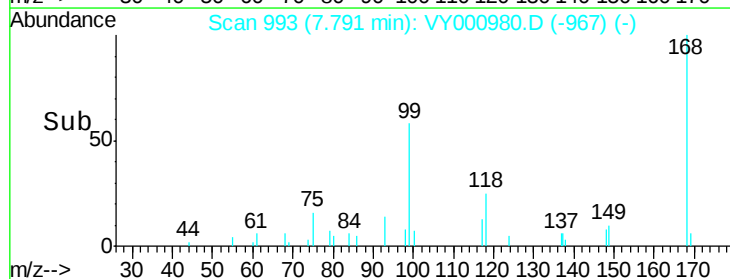
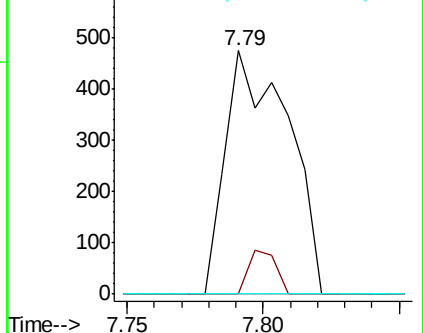
77 0.0 24.7 37.1#

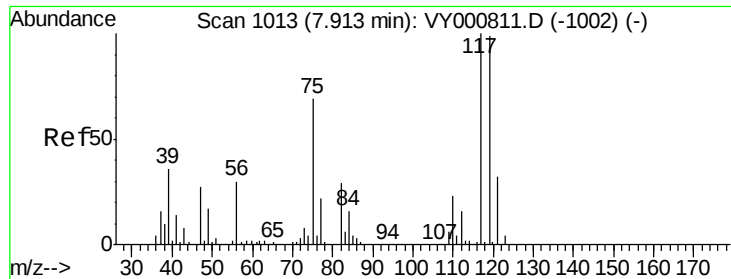


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

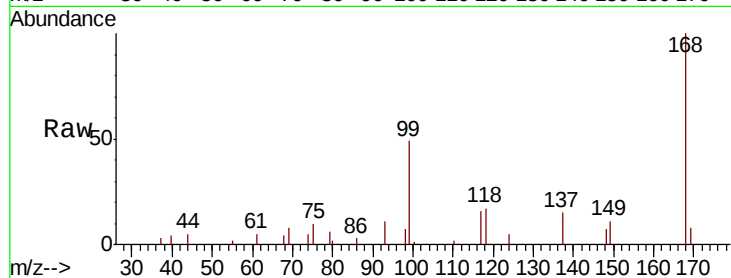




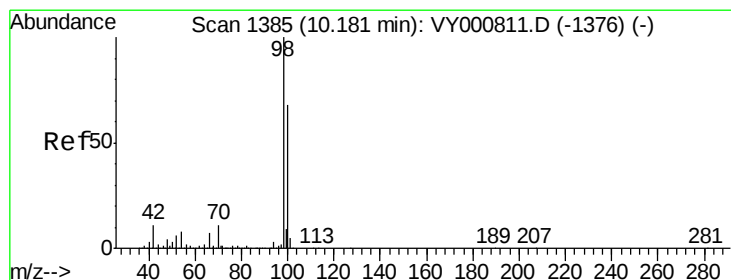
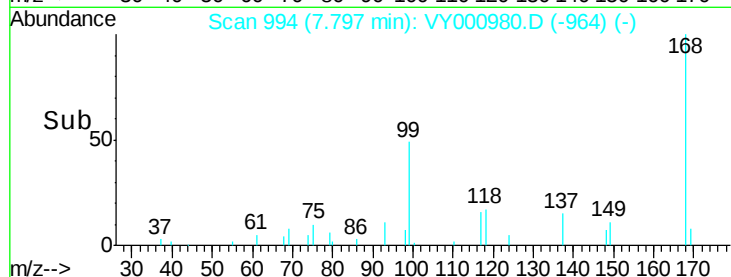
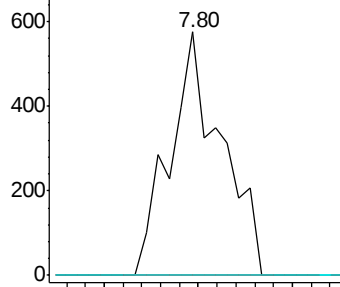
#38
Carbon Tetrachloride
Concen: 6.964 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.12 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

Instrument :
MSVOA_Y
ClientSampleId :
EP-9

Tgt Ion: 117 Resp: 1084
Ion Ratio Lower Upper
117 100
119 0.0 79.3 118.9#
121 0.0 25.5 38.3#

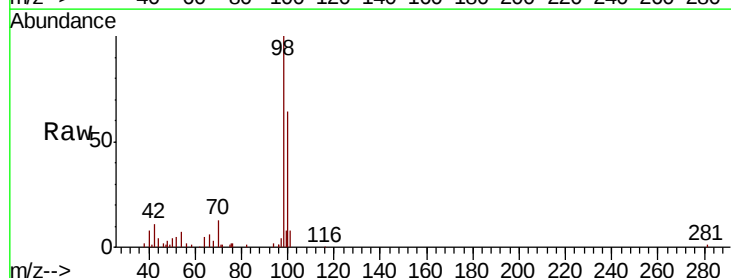


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

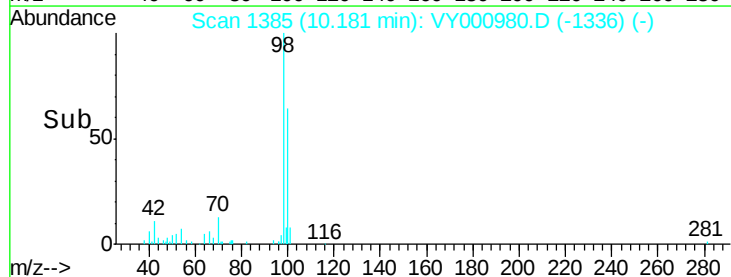
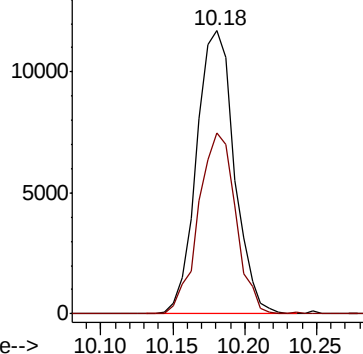


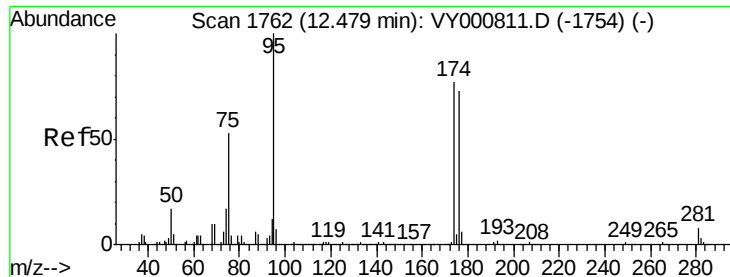
#50
Toluene-d8
Concen: 52.045 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

Tgt Ion: 98 Resp: 21316
Ion Ratio Lower Upper
98 100
100 62.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY

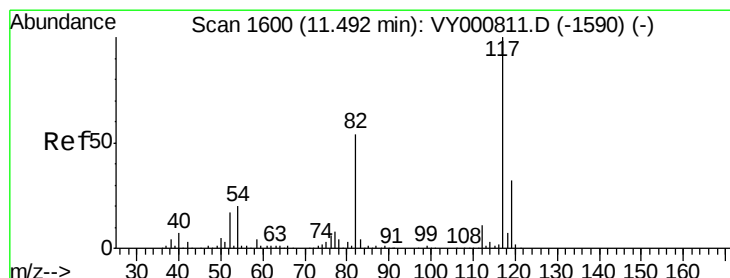
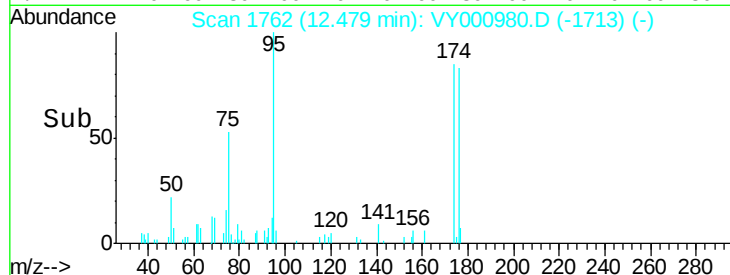
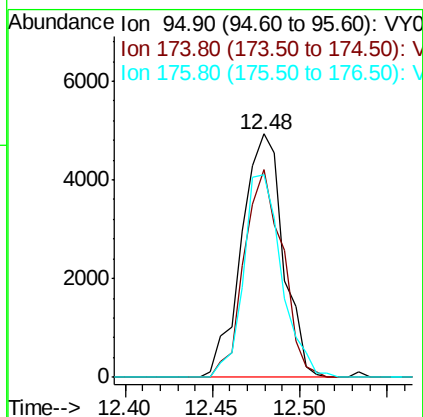
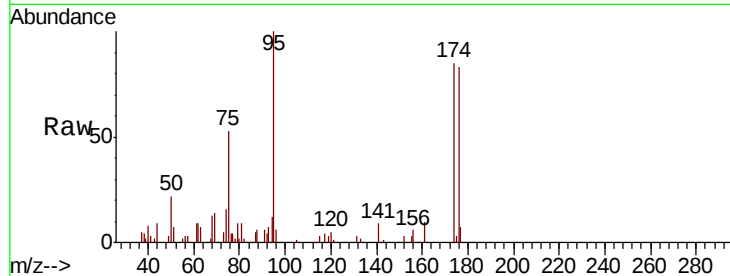




#62
4-Bromofluorobenzene
Concen: 53.246 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

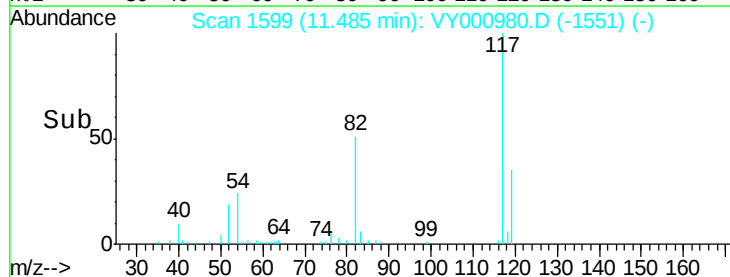
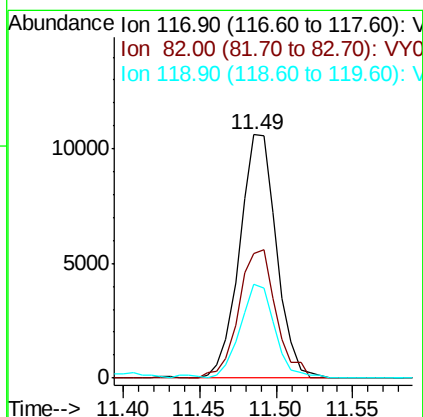
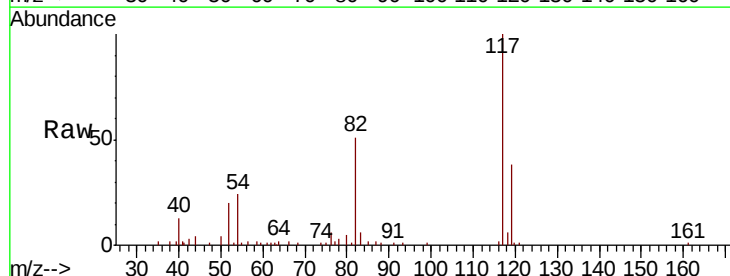
Instrument :
MSVOA_Y
ClientSampleId :
EP-9

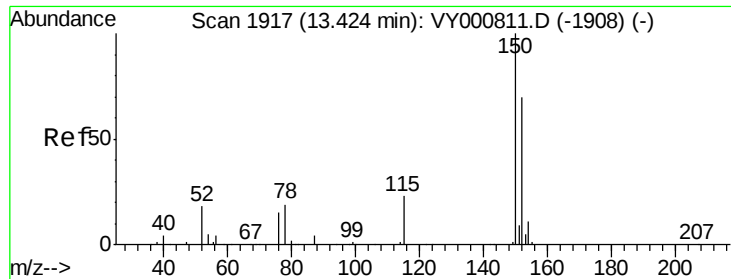
Tgt Ion: 95 Resp: 8190
Ion Ratio Lower Upper
95 100
174 78.2 0.0 150.6
176 76.3 0.0 145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

Tgt Ion: 117 Resp: 17771
Ion Ratio Lower Upper
117 100
82 50.9 43.1 64.7
119 38.4 25.3 37.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

Instrument :

MSVOA_Y

ClientSampled :

EP-9

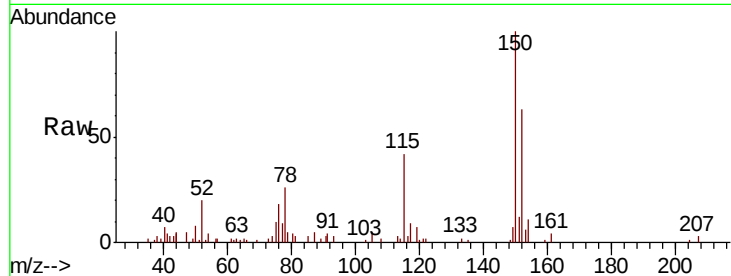
Tgt Ion:152 Resp: 9125

Ion Ratio Lower Upper

152 100

115 58.1 29.3 87.8

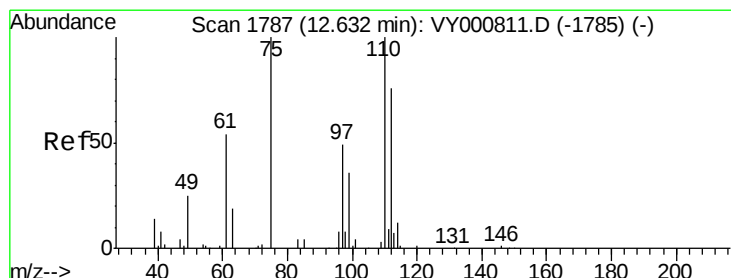
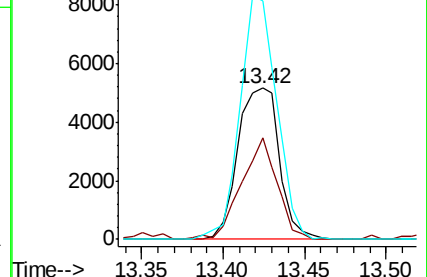
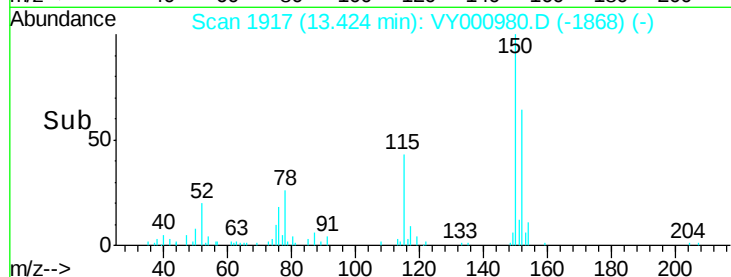
150 142.5 0.0 351.2



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: 39.783 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. -0.16 min

Lab File: VY000980.D

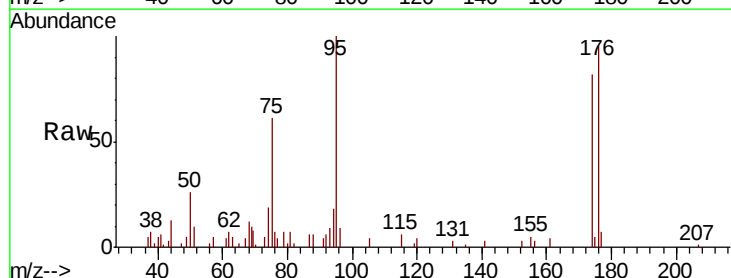
Acq: 17 Dec 2019 15:50

Tgt Ion: 75 Resp: 4113

Ion Ratio Lower Upper

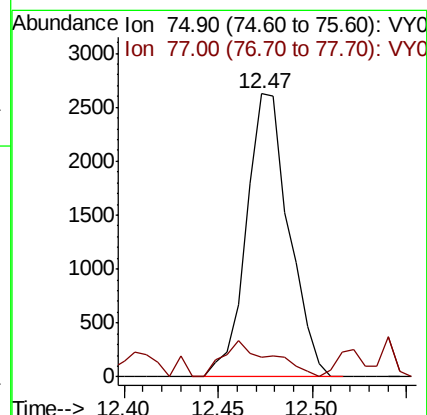
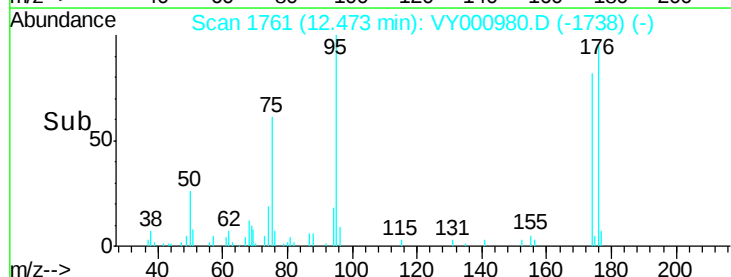
75 100

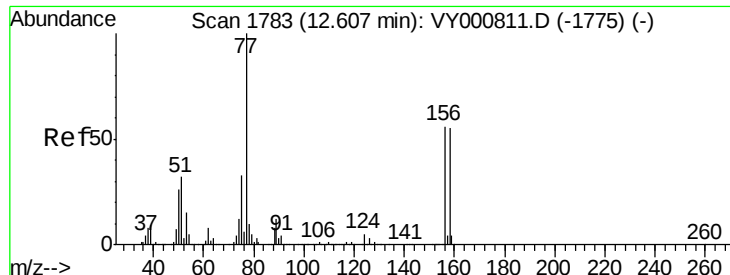
77 14.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 1.384 ug/l

RT: 12.63 min Scan# 1786

Delta R.T. 0.02 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

Instrument :

MSVOA_Y

ClientSampled :

EP-9

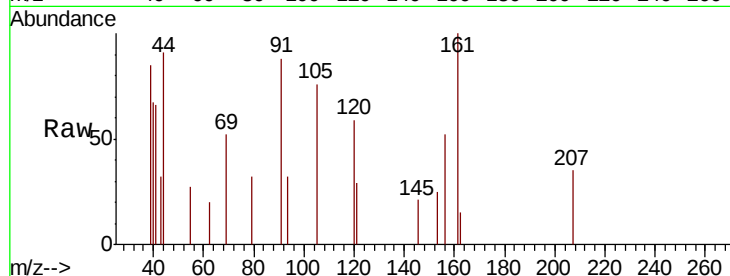
Tgt Ion:156 Resp: 218

Ion Ratio Lower Upper

156 100

77 0.0 102.6 307.7#

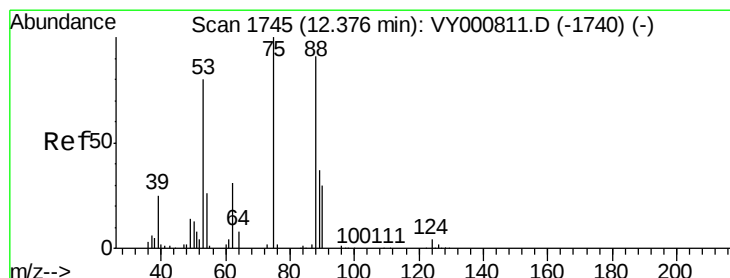
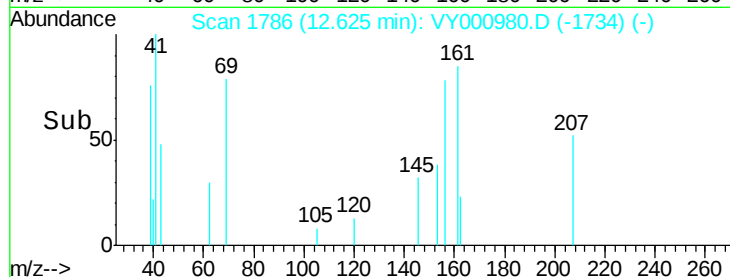
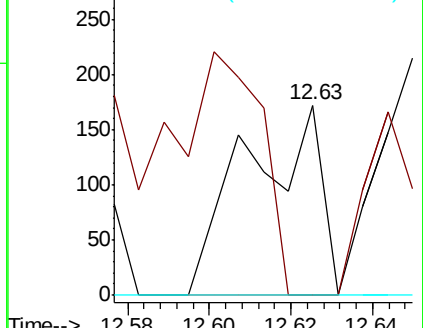
158 0.0 47.6 142.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 78.146 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. 0.10 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

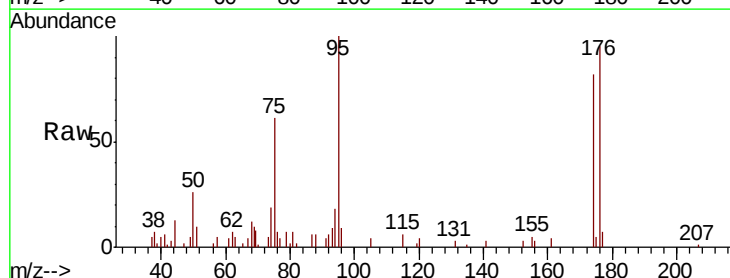
Tgt Ion: 75 Resp: 4113

Ion Ratio Lower Upper

75 100

53 0.0 64.6 96.8#

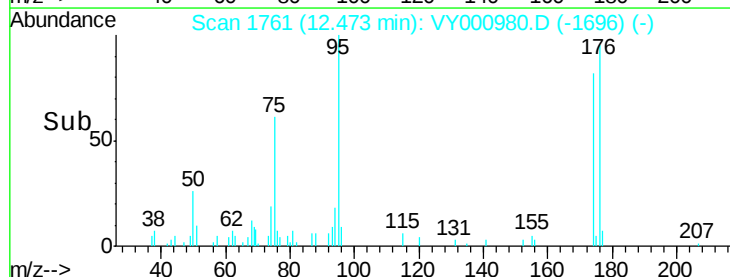
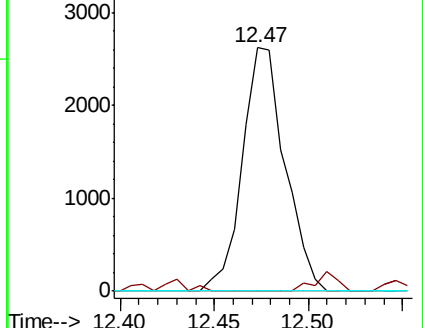
89 0.0 33.6 50.4#

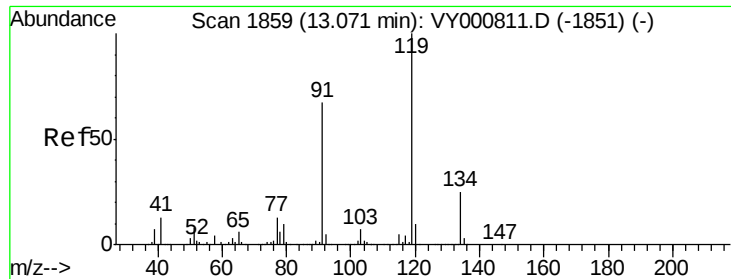


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

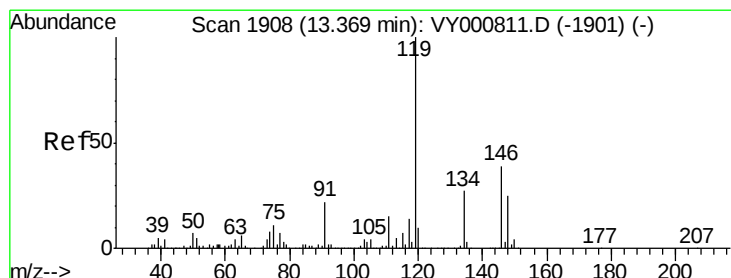
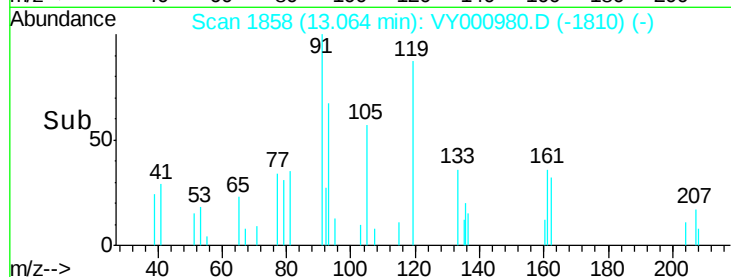
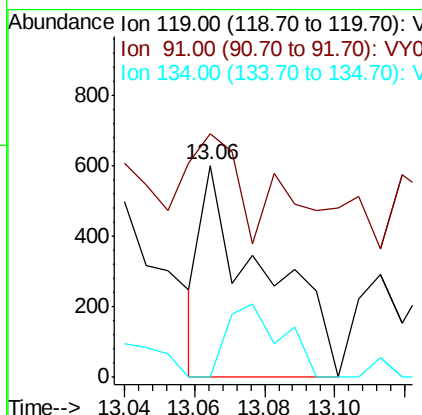
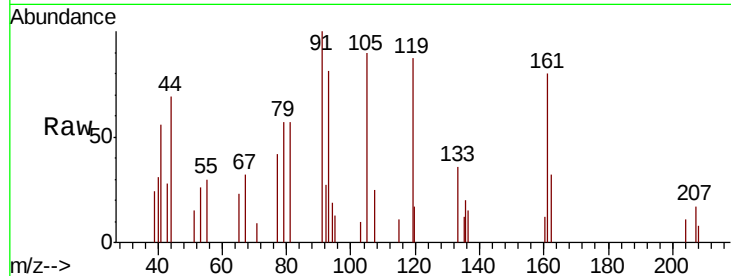




#83
tert-Butylbenzene
Concen: 1.463 ug/l
RT: 13.06 min Scan# 1858
Delta R.T. -0.01 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

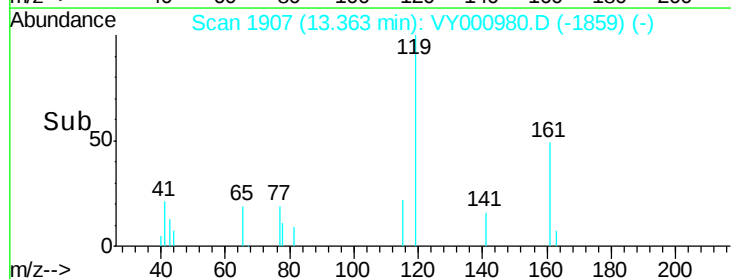
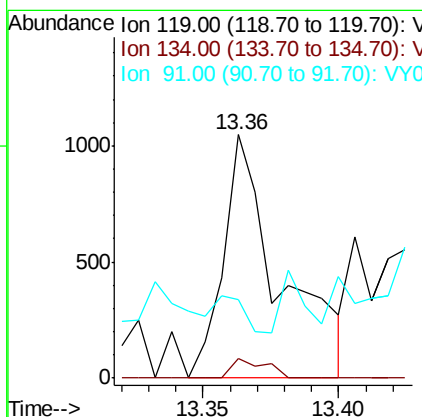
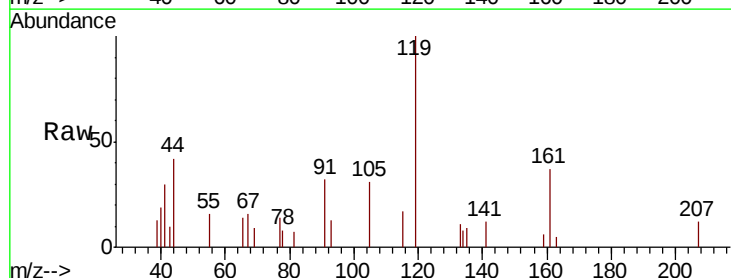
Instrument :
MSVOA_Y
ClientSampleID :
EP-9

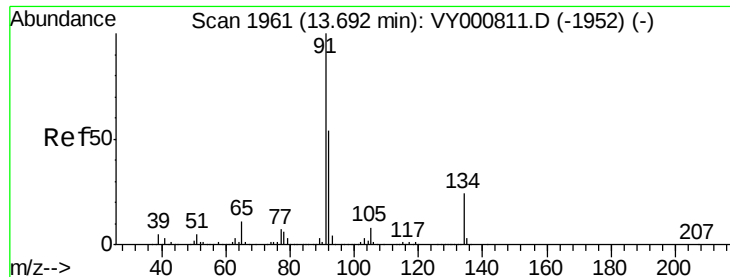
Tgt Ion:119 Resp: 740
Ion Ratio Lower Upper
119 100
91 41.1 32.3 96.8
134 30.8 12.9 38.7



#86
p-Isopropyltoluene
Concen: 2.371 ug/l
RT: 13.36 min Scan# 1907
Delta R.T. -0.01 min
Lab File: VY000980.D
Acq: 17 Dec 2019 15:50

Tgt Ion:119 Resp: 1517
Ion Ratio Lower Upper
119 100
134 4.8 13.5 40.4#
91 0.0 11.5 34.5#





#89

n-Butylbenzene

Concen: 41.594 ug/l

RT: 13.65 min Scan# 1954

Delta R.T. -0.04 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

Instrument :

MSVOA_Y

ClientSampleId :

EP-9

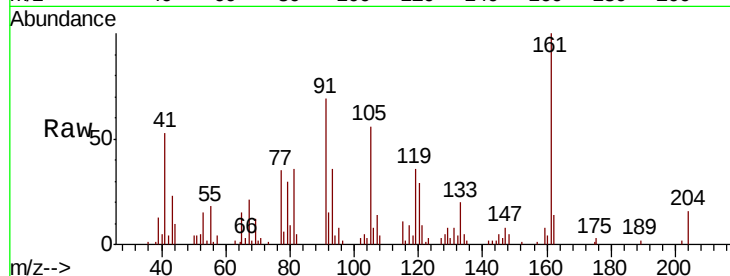
Tgt Ion: 91 Resp: 26905

Ion Ratio Lower Upper

91 100

92 20.8 26.9 80.7#

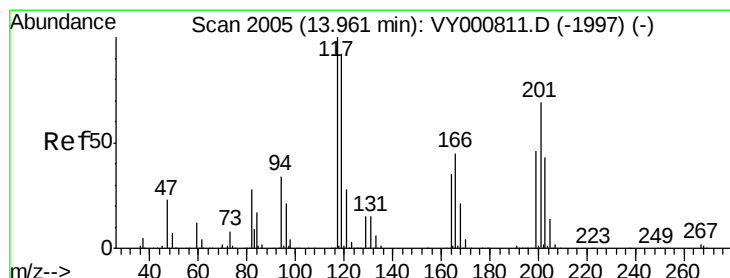
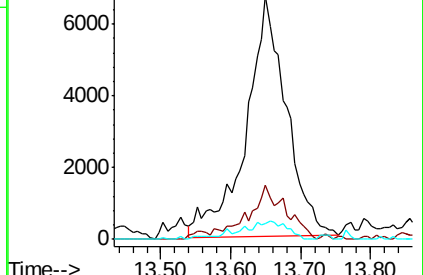
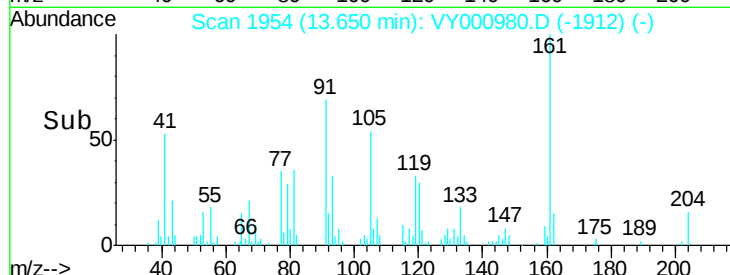
134 6.9 12.6 37.6#



Abundance Ion 91.00 (90.70 to 91.70): VY000980.D (-1912) (-)

Ion 92.00 (91.70 to 92.70): VY000980.D (-1912) (-)

Ion 134.00 (133.70 to 134.70): VY000980.D (-1912) (-)



#90

Hexachloroethane

Concen: 28.348 ug/l

RT: 14.03 min Scan# 2017

Delta R.T. 0.07 min

Lab File: VY000980.D

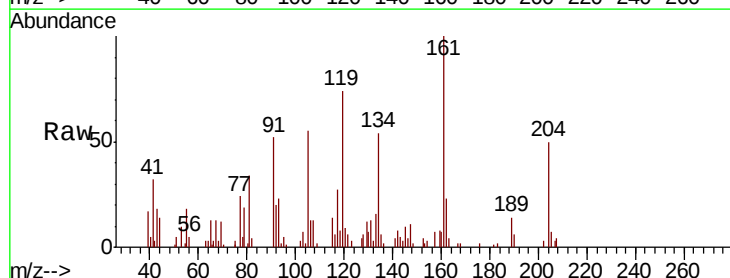
Acq: 17 Dec 2019 15:50

Tgt Ion: 117 Resp: 3341

Ion Ratio Lower Upper

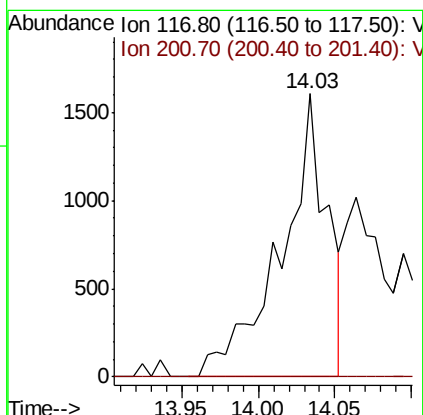
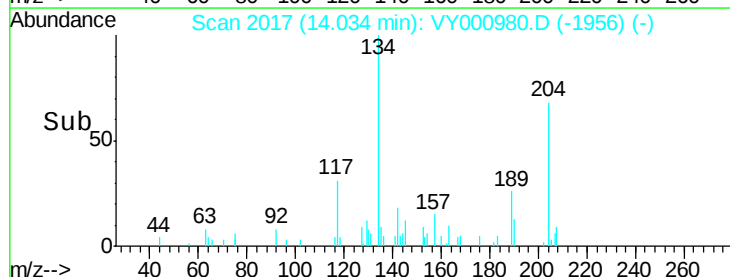
117 100

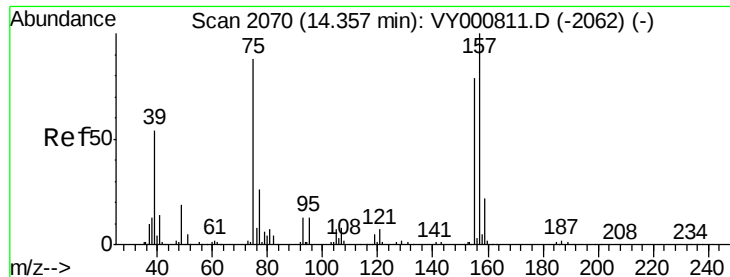
201 0.0 34.0 102.0#



Abundance Ion 116.80 (116.50 to 117.50): VY000980.D (-1956) (-)

Ion 200.70 (200.40 to 201.40): VY000980.D (-1956) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 11.808 ug/l

RT: 14.53 min Scan# 2099

Delta R.T. 0.18 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

Instrument :

MSVOA_Y

ClientSampled :

EP-9

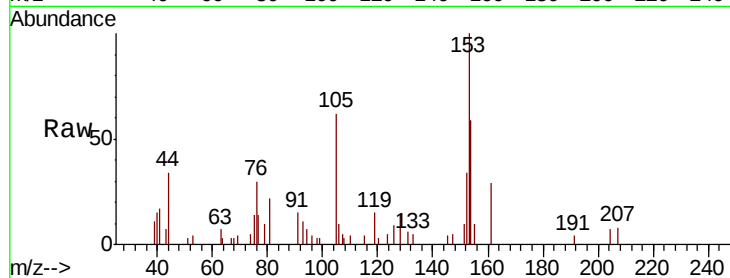
Tgt Ion: 75 Resp: 283

Ion Ratio Lower Upper

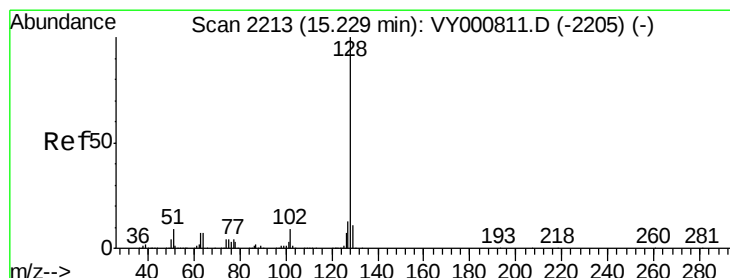
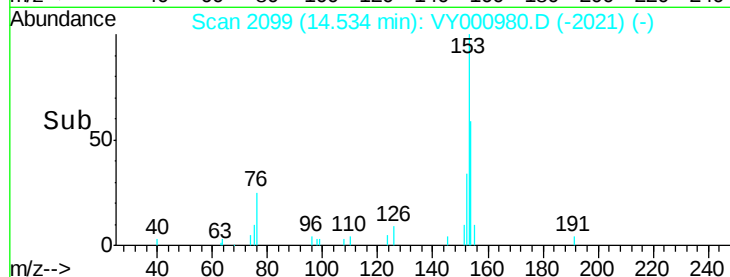
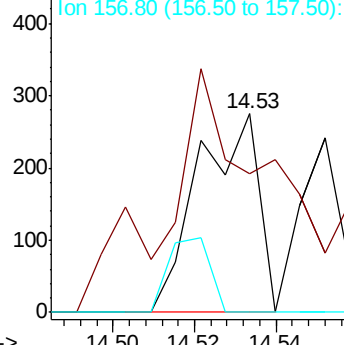
75 100

155 242.0 44.3 132.9#

157 25.8 56.3 168.9#



Abundance Ion 74.90 (74.60 to 75.60): VY000980.D (-2091) (-)



#95

Naphthalene

Concen: 1.166 ug/l

RT: 15.22 min Scan# 2212

Delta R.T. -0.01 min

Lab File: VY000980.D

Acq: 17 Dec 2019 15:50

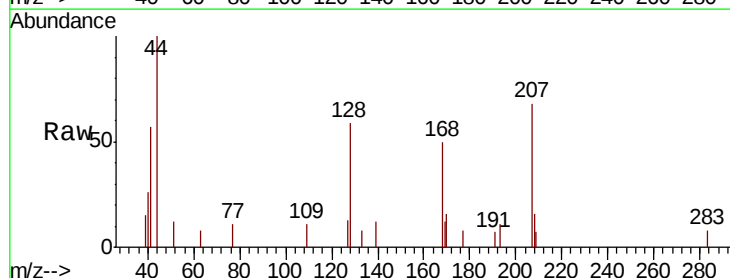
Tgt Ion: 128 Resp: 509

Ion Ratio Lower Upper

128 100

127 6.9 10.1 15.1#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VY000980.D (-2164) (-)

