

Data File : VY001948.D
Acq On : 11 Mar 2020 17:08
Operator : SY/MD
Sample : L1893-09RE
Misc : 7.46G/5ML/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-2(8-9)RE

Quant Time: Mar 12 01:59:37 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 05 04:05:33 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	176112	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.70	114	321082	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.50	117	289111	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	132888	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.16	65	101475	53.97	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	107.94%	
35) Dibromofluoromethane	7.73	113	92357	52.68	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	105.36%	
50) Toluene-d8	10.19	98	386074	52.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.44%	
62) 4-Bromofluorobenzene	12.49	95	136652	53.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.32%	

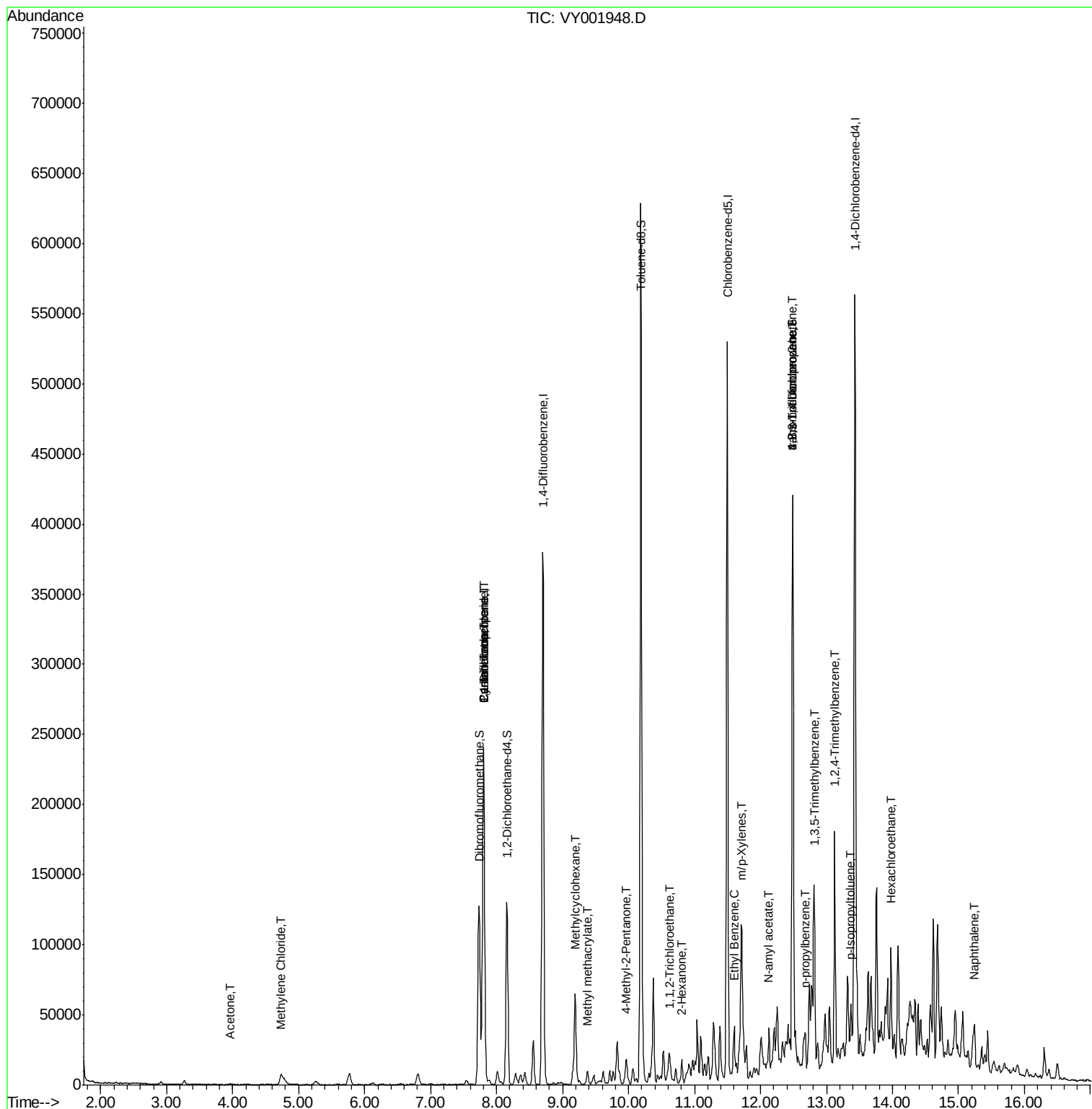
Target Compounds			Qvalue			
11) Tert butyl alcohol	4.98	59	204	Below Cal	#	74
16) Acetone	3.96	43	1349	2.463	ug/l #	86
20) Methylene Chloride	4.74	84	5306	2.261	ug/l #	81
31) Cyclohexane	7.80	56	11522	2.789	ug/l #	67
36) 1,1-Dichloropropene	7.80	75	13445	4.351	ug/l #	52
38) Carbon Tetrachloride	7.80	117	18205	6.897	ug/l #	17
39) Methylcyclohexane	9.19	83	29022	7.082	ug/l	95
48) Methyl methacrylate	9.38	41	2347	1.556	ug/l #	54
51) 4-Methyl-2-Pentanone	9.97	43	7858	4.487	ug/l #	42
55) 1,1,2-Trichloroethane	10.63	97	6171	3.554	ug/l #	18
58) 2-Chloroethyl Vinyl ether	9.78	63	72	Below Cal	#	48
59) 2-Hexanone	10.81	43	6261	5.009	ug/l #	28
67) Ethyl Benzene	11.60	91	22292	2.075	ug/l	99
68) m/p-Xylenes	11.70	106	18808	4.735	ug/l	99
74) N-amyl acetate	12.13	43	6379	2.046	ug/l #	58
76) 1,2,3-Trichloropropane	12.49	75	67989	43.118	ug/l #	100
78) n-propylbenzene	12.68	91	19844	1.586	ug/l	96
80) 1,3,5-Trimethylbenzene	12.82	105	19595	2.346	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.49	75	67989	87.097	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.13	105	86668	10.457	ug/l	100
86) p-Isopropyltoluene	13.38	119	11617	1.317	ug/l	99
90) Hexachloroethane	13.98	117	3373	2.027	ug/l #	18
95) Naphthalene	15.24	128	21993	3.737	ug/l #	94

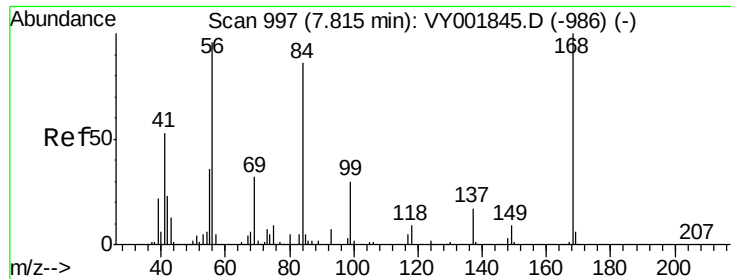
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

Instrument :

MSVOA_Y

ClientSampleId :

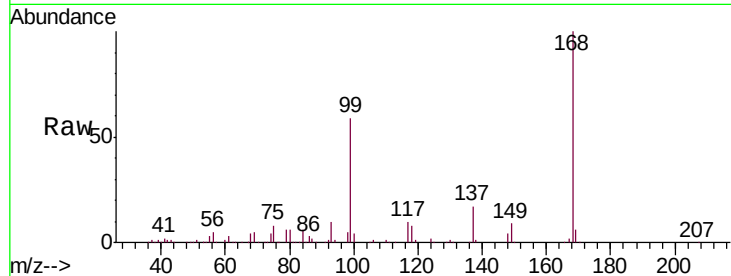
TP-2(8-9)RE

Tgt Ion:168 Resp: 176112

Ion Ratio Lower Upper

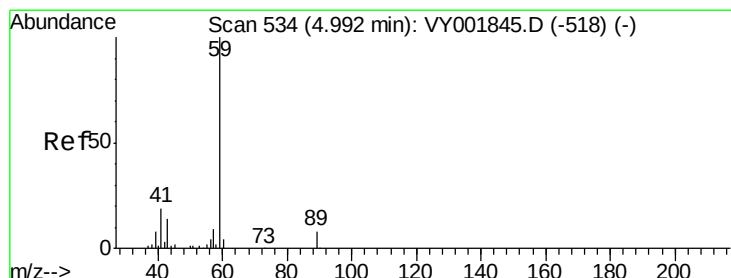
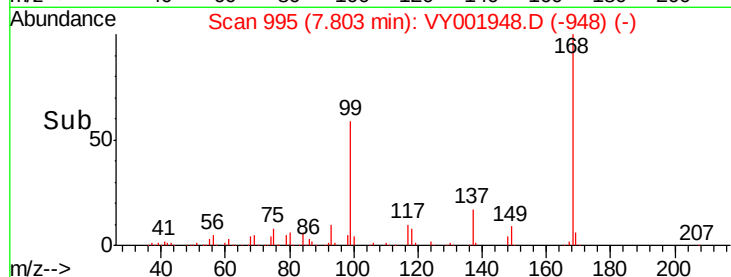
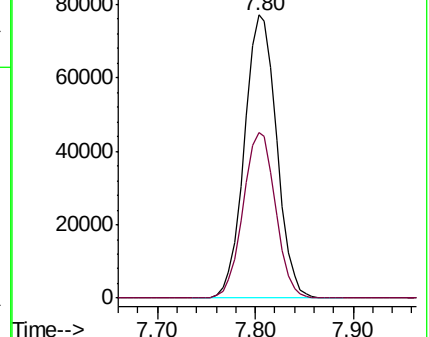
168 100

99 58.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.98 min Scan# 532

Delta R.T. -0.01 min

Lab File: VY001948.D

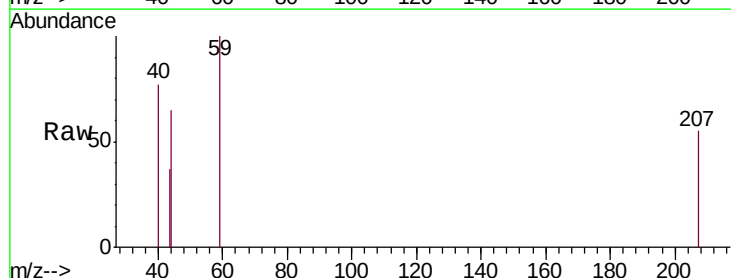
Acq: 11 Mar 2020 17:08

Tgt Ion: 59 Resp: 204

Ion Ratio Lower Upper

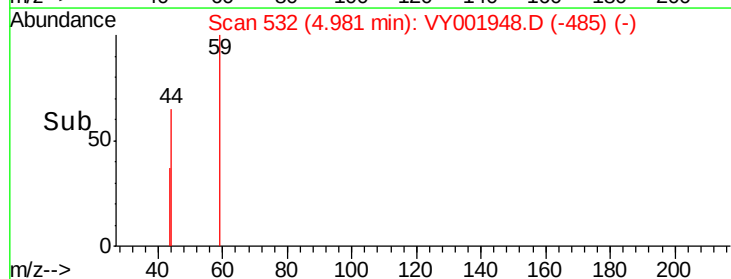
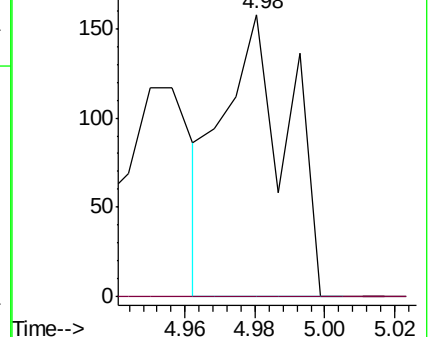
59 100

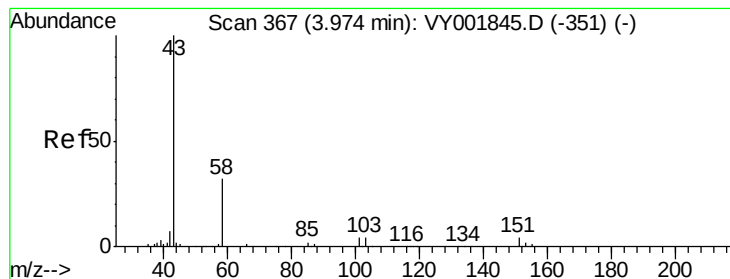
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001845.D (-518) (-)

Ion 57.00 (56.70 to 57.70): VY001845.D (-518) (-)





#16

Acetone

Concen: 2.463 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.02 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

Instrument :

MSVOA_Y

ClientSampled :

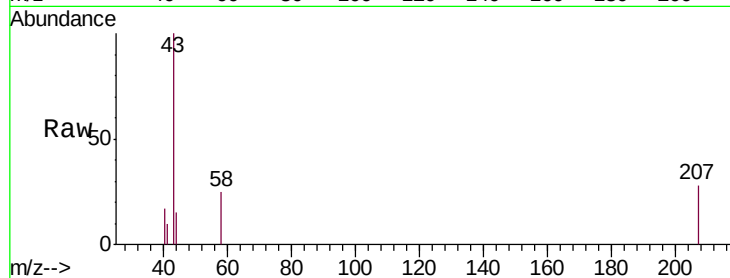
TP-2(8-9)RE

Tgt Ion: 43 Resp: 1349

Ion Ratio Lower Upper

43 100

58 24.8 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VY001845.D (-351) (-)

Ion 58.00 (57.70 to 58.70): VY001845.D (-351) (-)

3.96

500

400

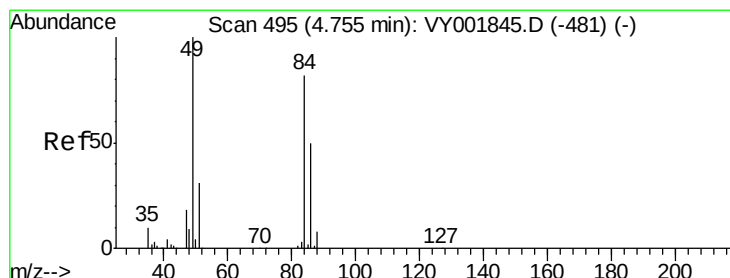
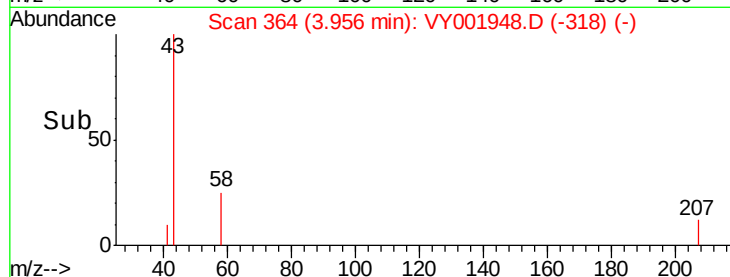
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 2.261 ug/l

RT: 4.74 min Scan# 493

Delta R.T. -0.01 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

Tgt Ion: 84 Resp: 5306

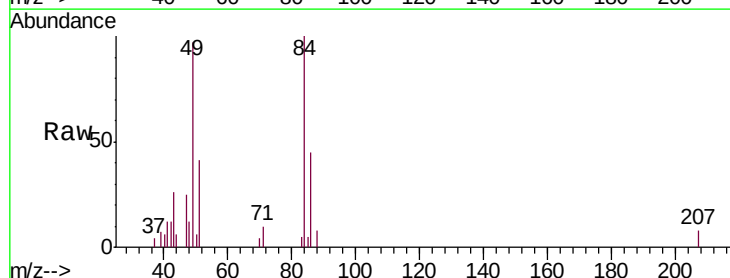
Ion Ratio Lower Upper

84 100

49 96.5 98.2 147.2#

51 40.6 30.2 45.2

86 45.1 48.9 73.3#



Abundance Ion 83.90 (83.60 to 84.60): VY001845.D (-481) (-)

Ion 48.90 (48.60 to 49.60): VY001845.D (-481) (-)

Ion 50.90 (50.60 to 51.60): VY001845.D (-481) (-)

Ion 85.90 (85.60 to 86.60): VY001845.D (-481) (-)

4.74

2000

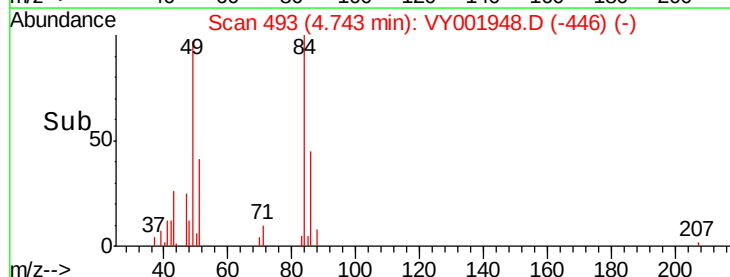
1500

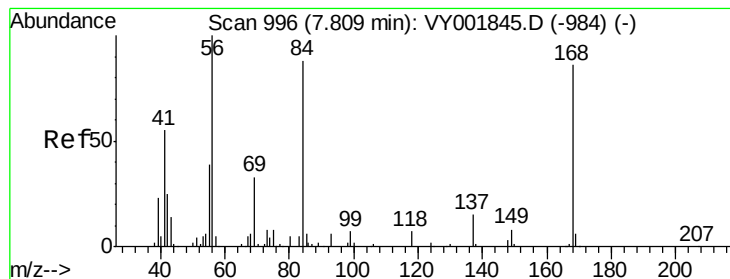
1000

500

0

Time-->





#31

Cyclohexane

Concen: 2.789 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

Instrument :

MSVOA_Y

ClientSampleId :

TP-2(8-9)RE

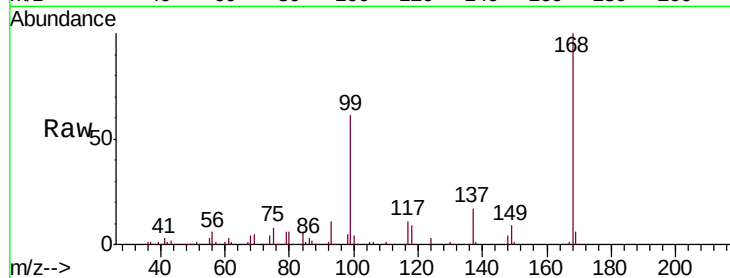
Tgt Ion: 56 Resp: 11522

Ion Ratio Lower Upper

56 100

69 78.2 26.7 40.1#

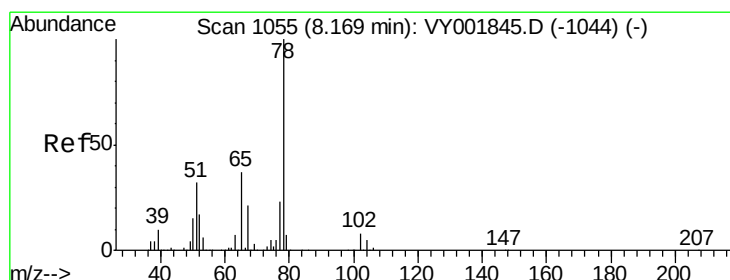
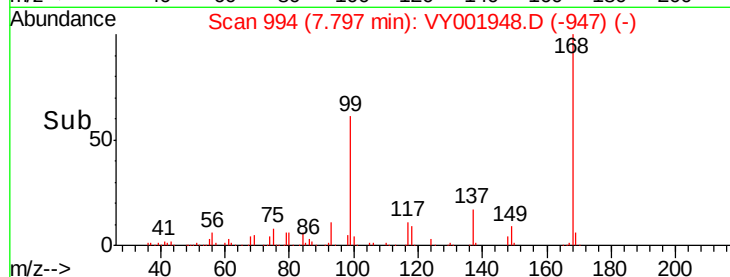
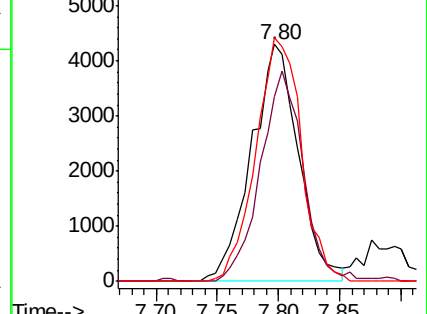
84 102.9 70.4 105.6



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 53.973 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VY001948.D

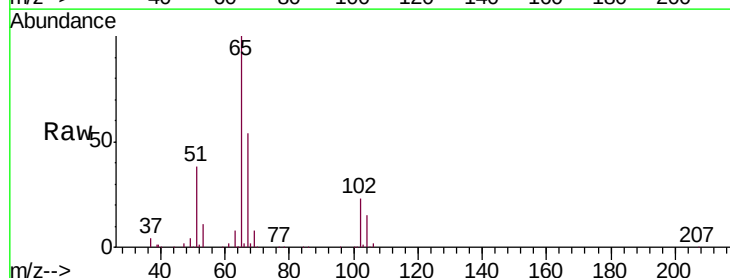
Acq: 11 Mar 2020 17:08

Tgt Ion: 65 Resp: 101475

Ion Ratio Lower Upper

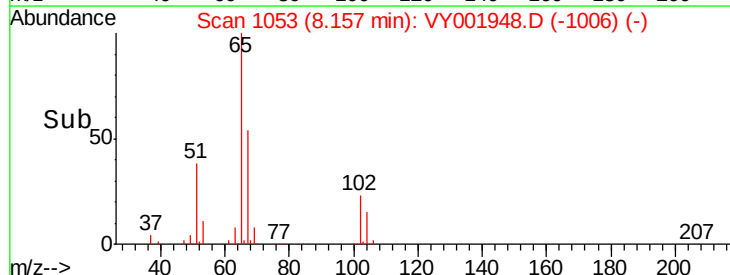
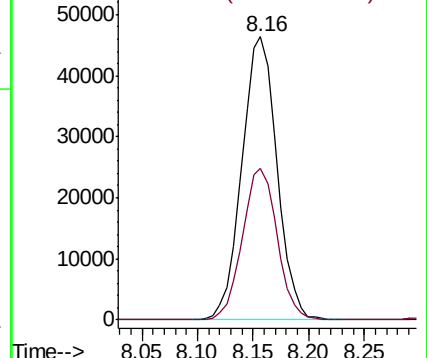
65 100

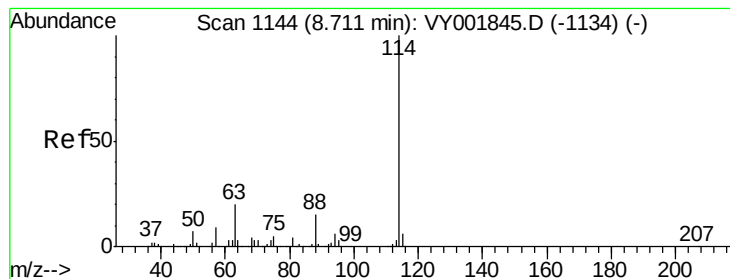
67 53.0 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

Instrument :

MSVOA_Y

ClientSampleId :

TP-2(8-9)RE

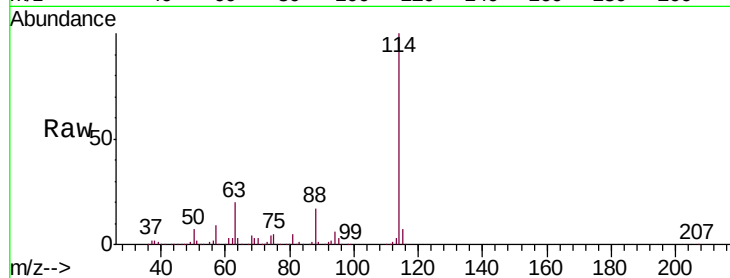
Tgt Ion:114 Resp: 321082

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.4

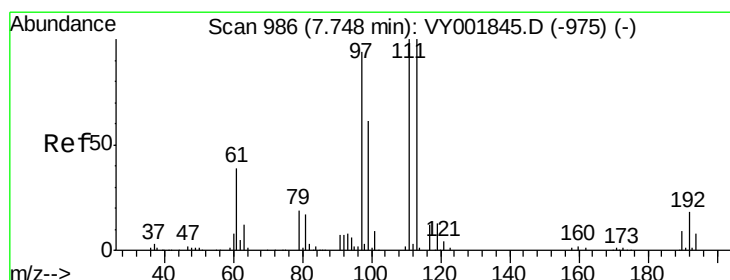
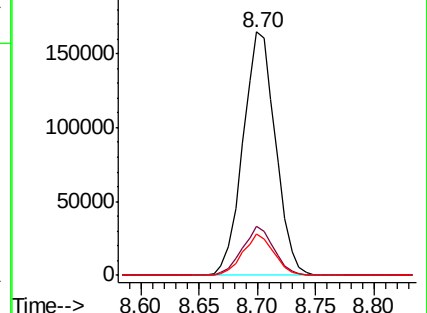
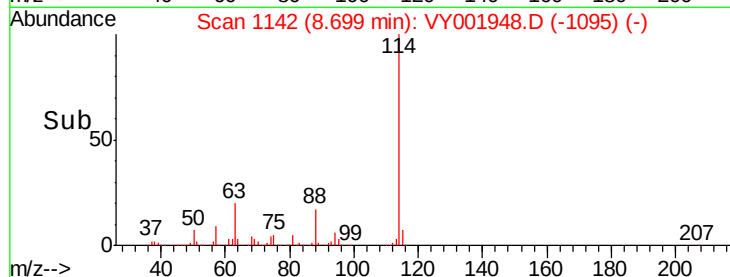
88 17.0 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 52.678 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.02 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

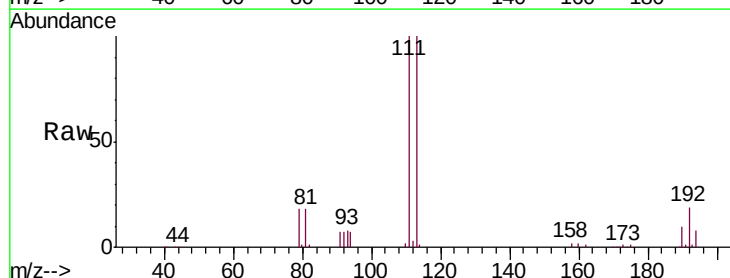
Tgt Ion:113 Resp: 92357

Ion Ratio Lower Upper

113 100

111 104.0 81.8 122.8

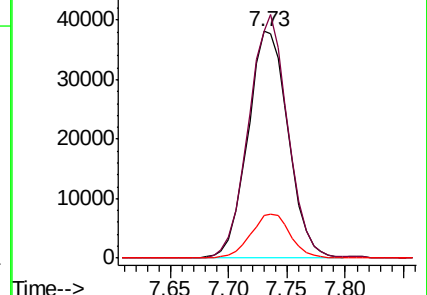
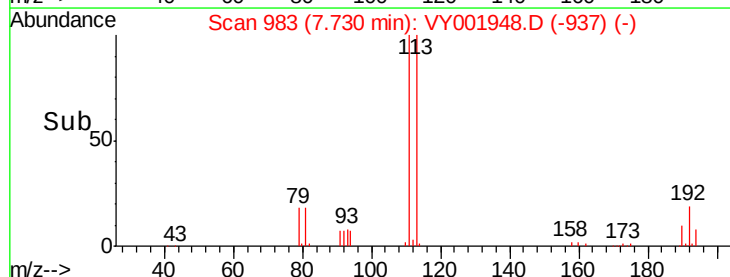
192 18.9 14.2 21.2

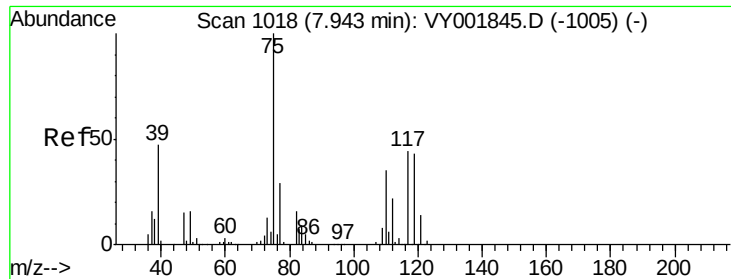


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

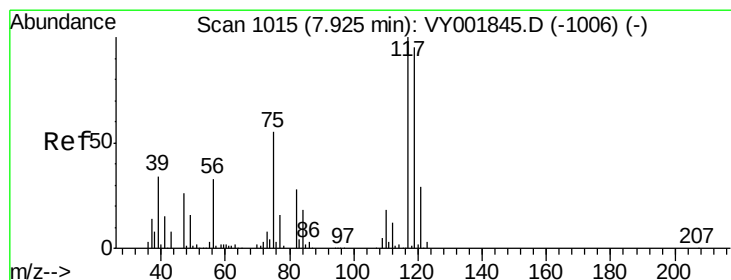
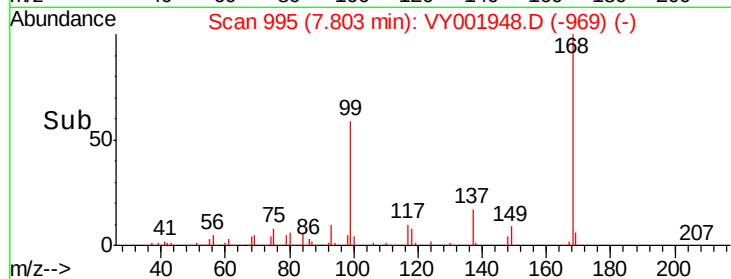
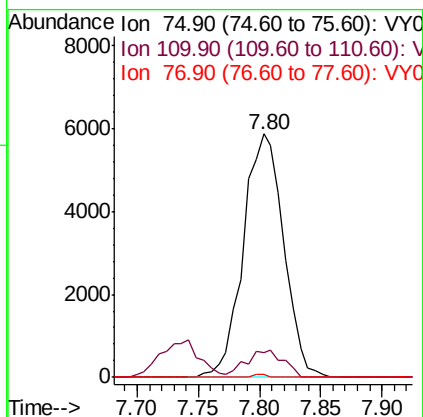
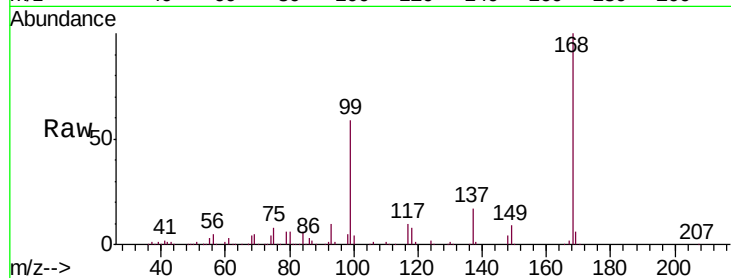




#36
 1,1-Dichloropropene
 Concen: 4.351 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.14 min
 Lab File: VY001948.D
 Acq: 11 Mar 2020 17:08

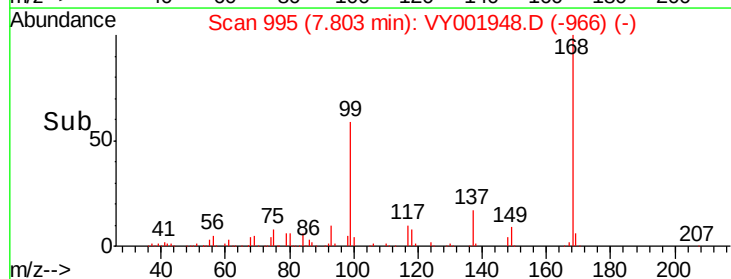
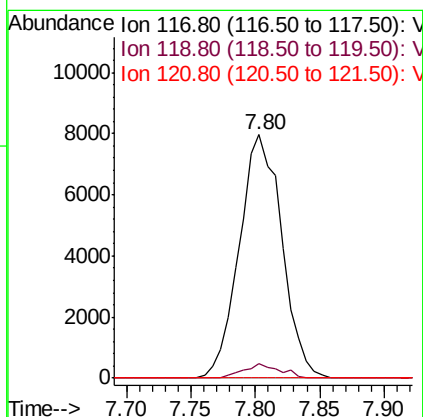
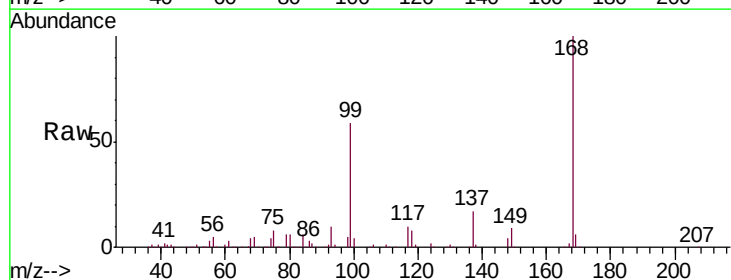
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-2(8-9)RE

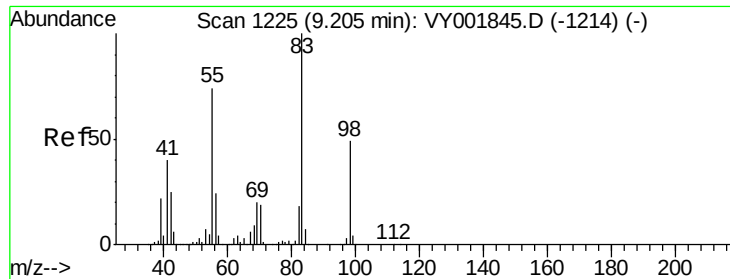
Tgt Ion: 75 Resp: 13445
 Ion Ratio Lower Upper
 75 100
 110 10.3 17.4 52.2#
 77 0.4 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.897 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.12 min
 Lab File: VY001948.D
 Acq: 11 Mar 2020 17:08

Tgt Ion: 117 Resp: 18205
 Ion Ratio Lower Upper
 117 100
 119 6.1 76.3 114.5#
 121 0.0 23.5 35.3#

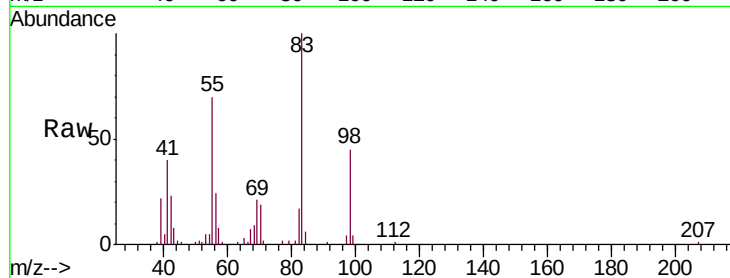




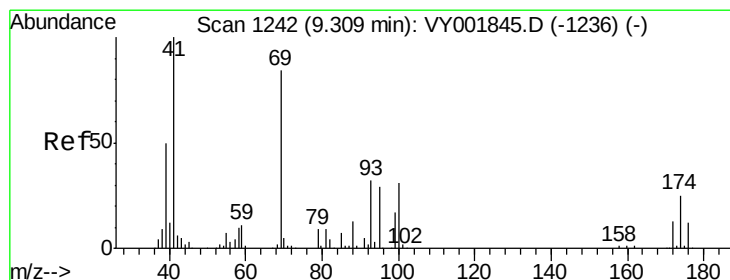
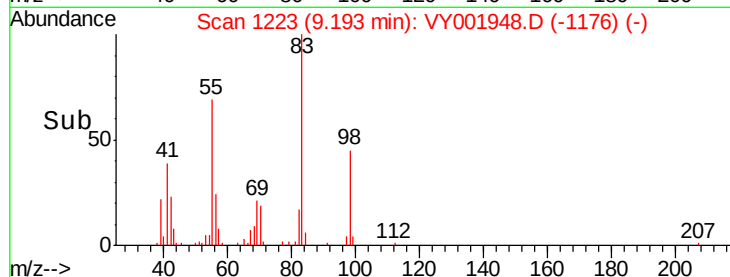
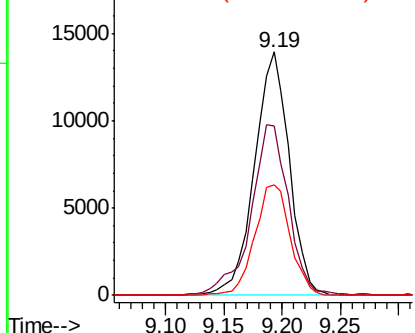
#39
Methylcyclohexane
Concen: 7.082 ug/l
RT: 9.19 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Instrument :
MSVOA_Y
ClientSampled :
TP-2(8-9)RE

Tgt Ion: 83 Resp: 29022
Ion Ratio Lower Upper
83 100
55 69.1 59.4 89.0
98 45.5 38.9 58.3

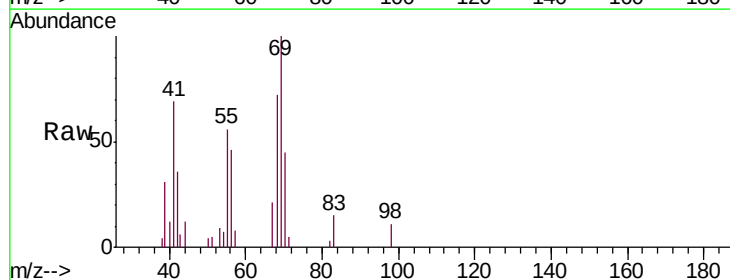


Abundance Ion 83.00 (82.70 to 83.70): VY0
Ion 55.00 (54.70 to 55.70): VY0
Ion 98.00 (97.70 to 98.70): VY0

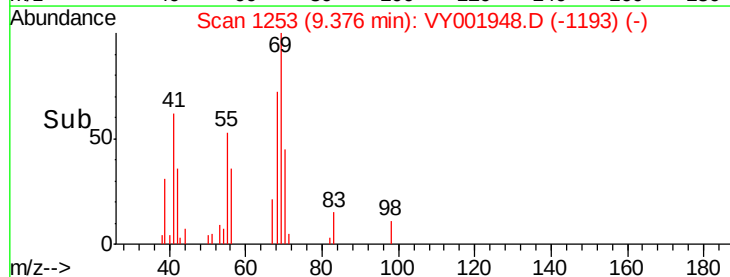
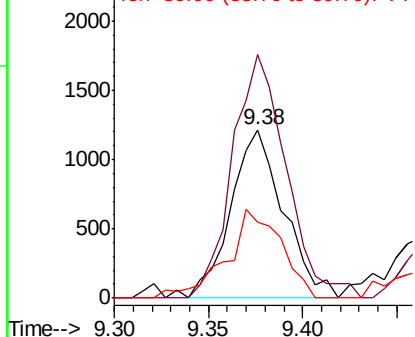


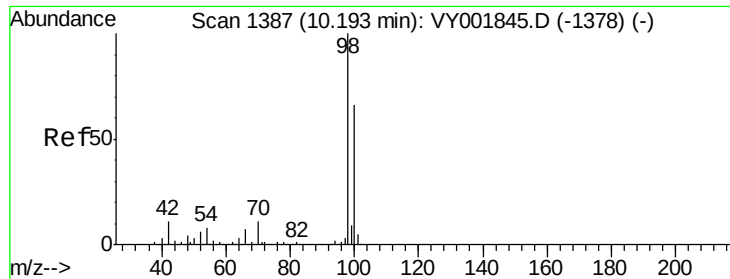
#48
Methyl methacrylate
Concen: 1.556 ug/l
RT: 9.38 min Scan# 1253
Delta R.T. 0.07 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Tgt Ion: 41 Resp: 2347
Ion Ratio Lower Upper
41 100
69 148.6 69.0 103.6#
39 54.9 39.1 58.7



Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 39.00 (38.70 to 39.70): VY0

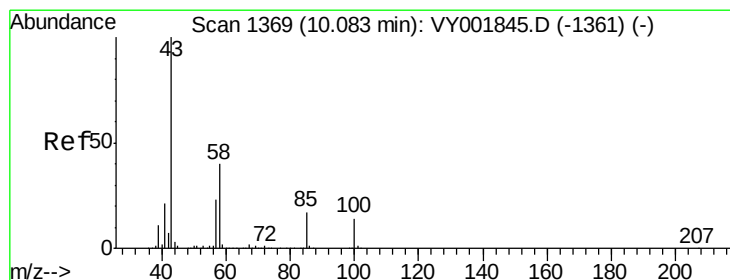
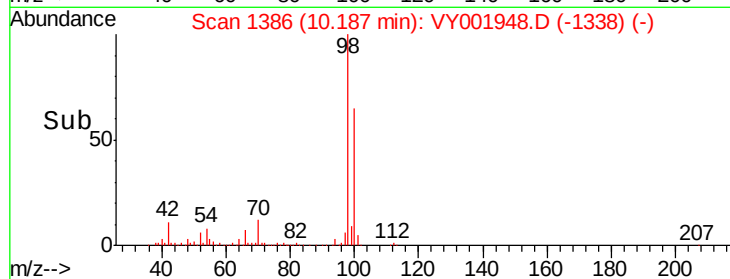
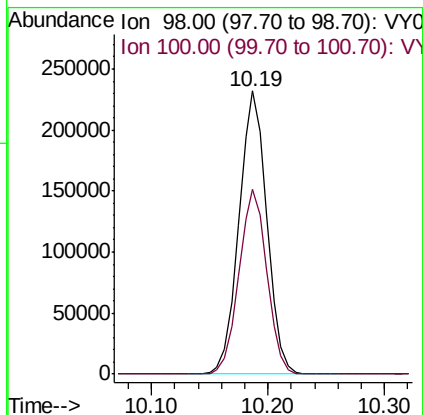
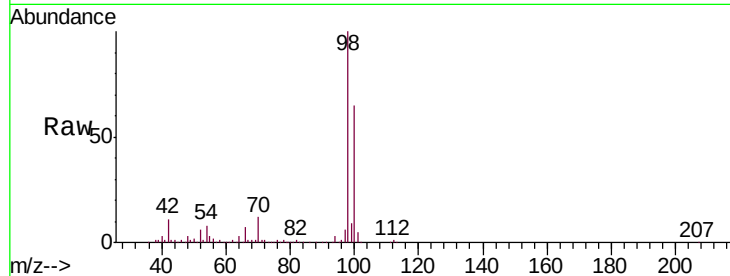




#50
Toluene-d8
Concen: 52.220 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

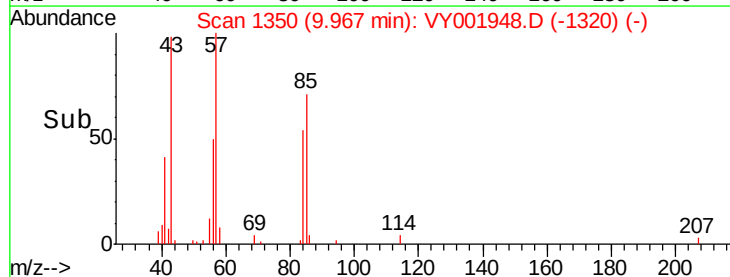
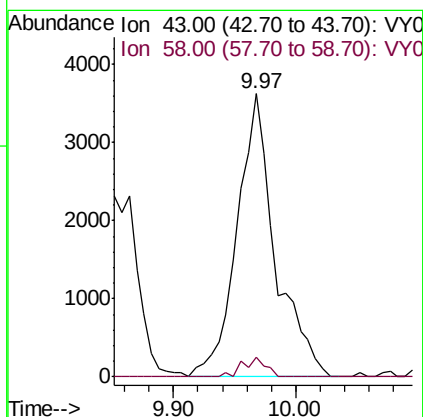
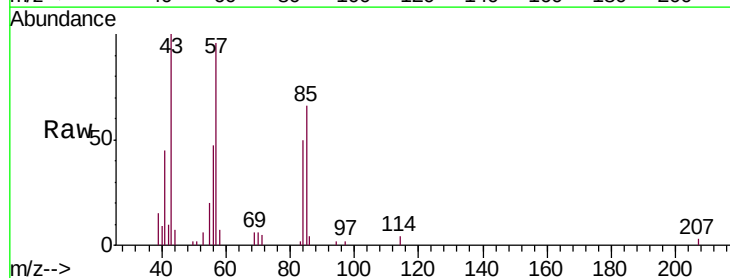
Instrument :
MSVOA_Y
ClientSampled :
TP-2(8-9)RE

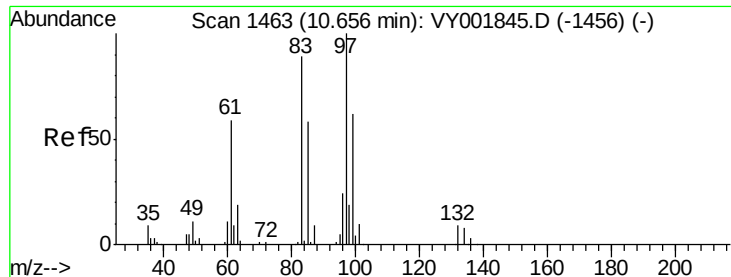
Tgt Ion: 98 Resp: 386074
Ion Ratio Lower Upper
98 100
100 65.4 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 4.487 ug/l
RT: 9.97 min Scan# 1350
Delta R.T. -0.12 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Tgt Ion: 43 Resp: 7858
Ion Ratio Lower Upper
43 100
58 4.2 32.0 48.0#





#55

1,1,2-Trichloroethane

Concen: 3.554 ug/l

RT: 10.63 min Scan# 1458

Delta R.T. -0.03 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

Instrument :

MSVOA_Y

ClientSampleId :

TP-2(8-9)RE

Tgt Ion: 97 Resp: 6171

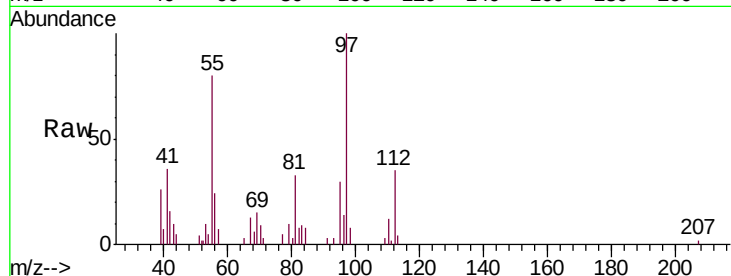
Ion Ratio Lower Upper

97 100

83 9.2 71.6 107.4#

85 0.0 46.6 69.8#

99 0.0 49.8 74.6#

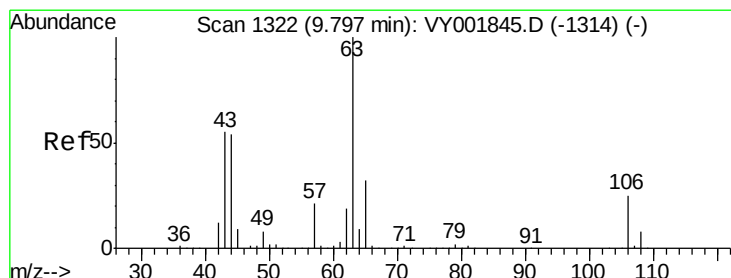
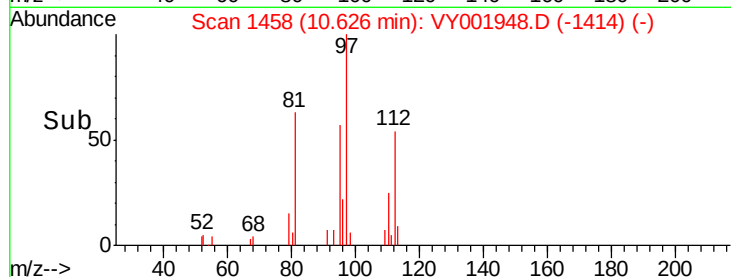
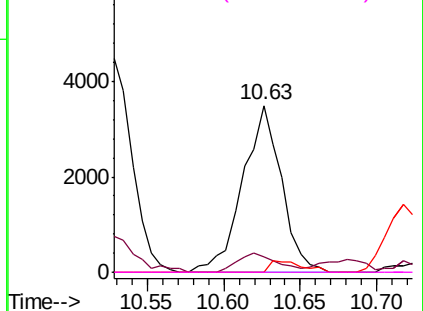


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 98.90 (98.60 to 99.60): VY0



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 9.78 min Scan# 1319

Delta R.T. -0.02 min

Lab File: VY001948.D

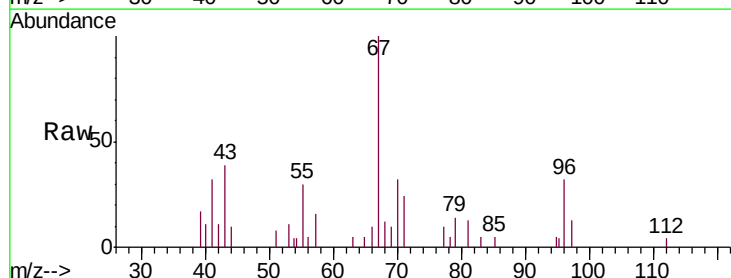
Acq: 11 Mar 2020 17:08

Tgt Ion: 63 Resp: 72

Ion Ratio Lower Upper

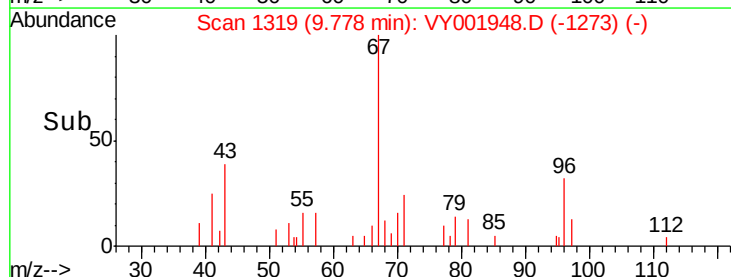
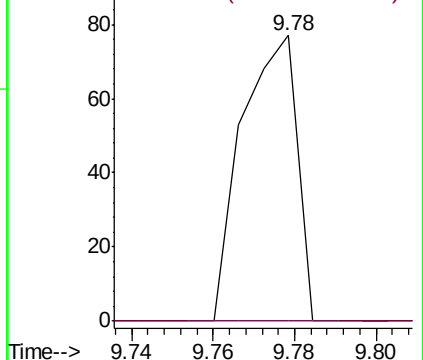
63 100

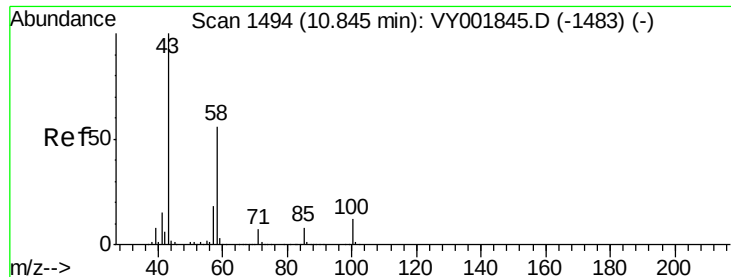
106 0.0 21.3 31.9#



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V

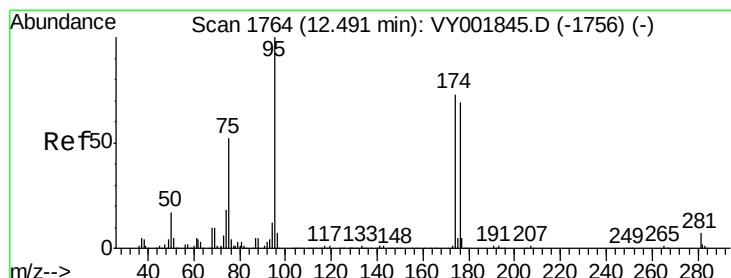
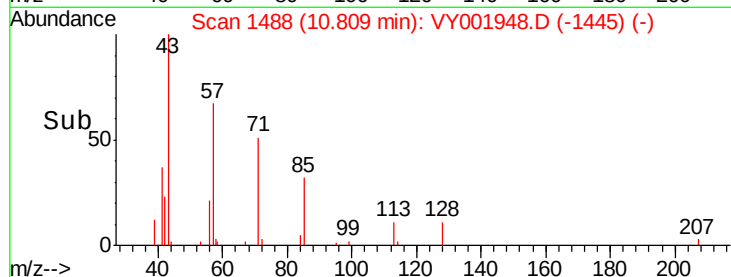
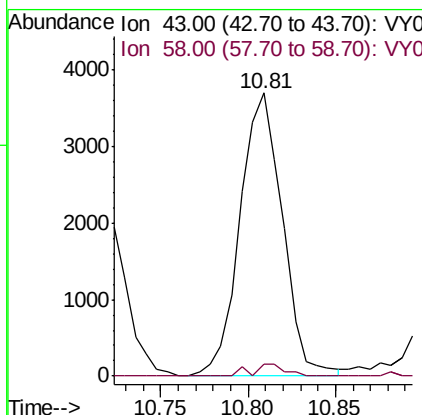
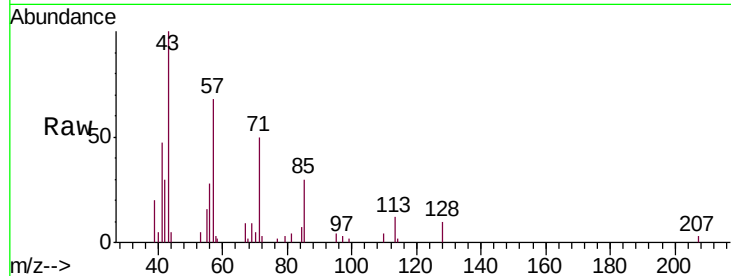




#59
2-Hexanone
Concen: 5.009 ug/l
RT: 10.81 min Scan# 1488
Delta R.T. -0.04 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

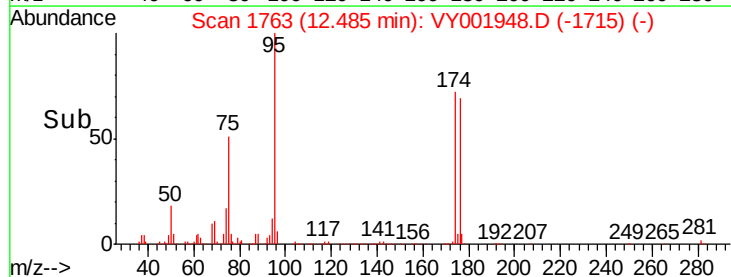
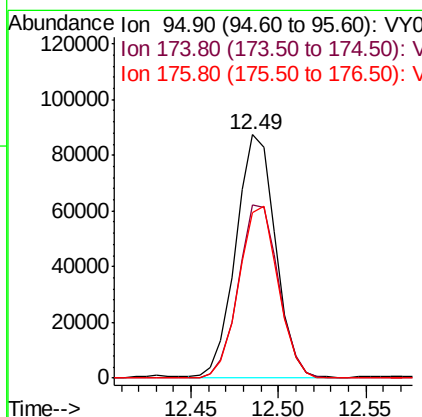
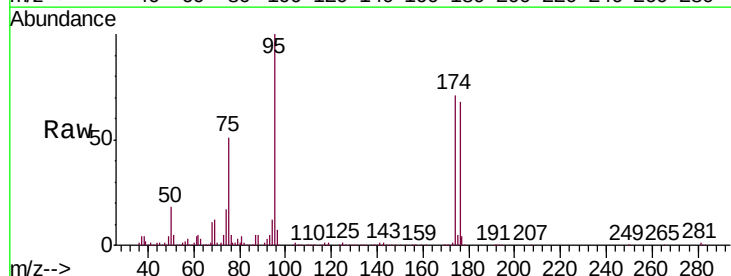
Instrument :
MSVOA_Y
ClientSampled :
TP-2(8-9)RE

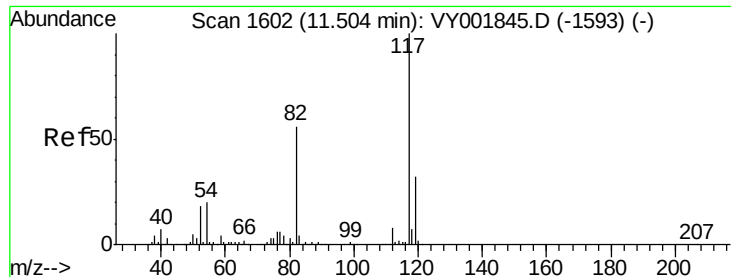
Tgt Ion: 43 Resp: 6261
Ion Ratio Lower Upper
43 100
58 3.3 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 53.158 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. -0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Tgt Ion: 95 Resp: 136652
Ion Ratio Lower Upper
95 100
174 72.7 0.0 145.0
176 70.9 0.0 137.4

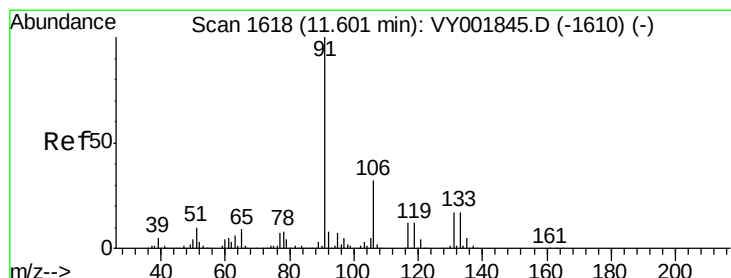
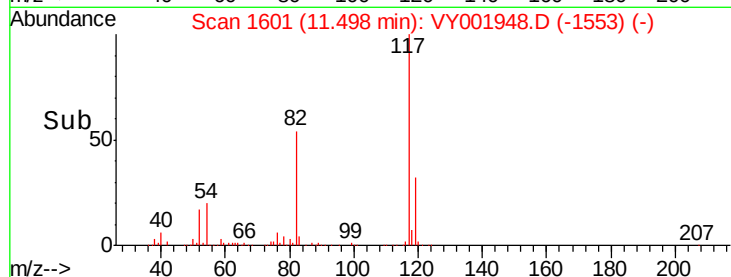
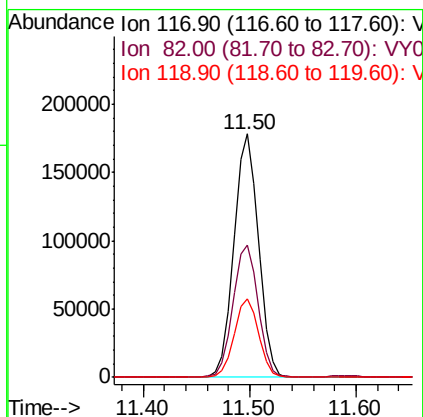
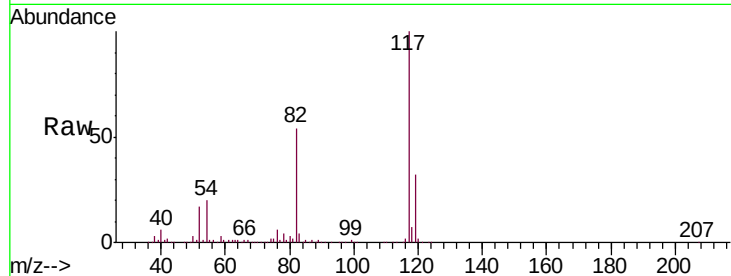




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

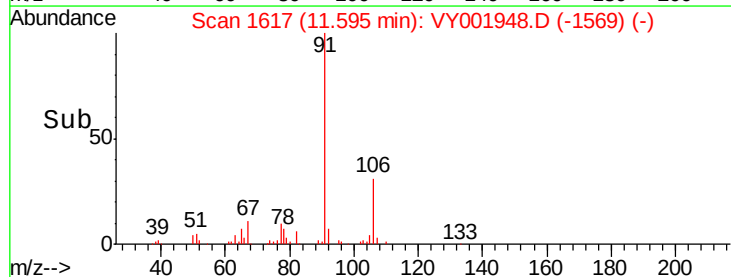
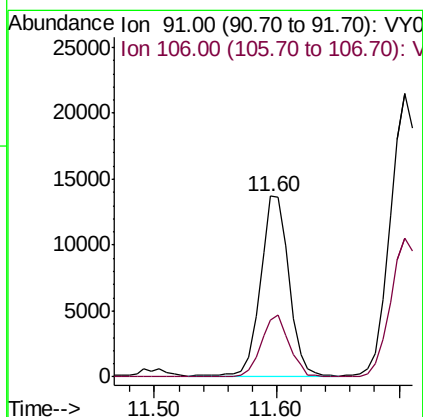
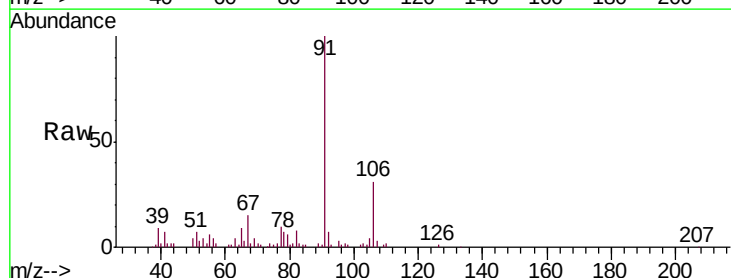
Instrument :
MSVOA_Y
ClientSampleId :
TP-2(8-9)RE

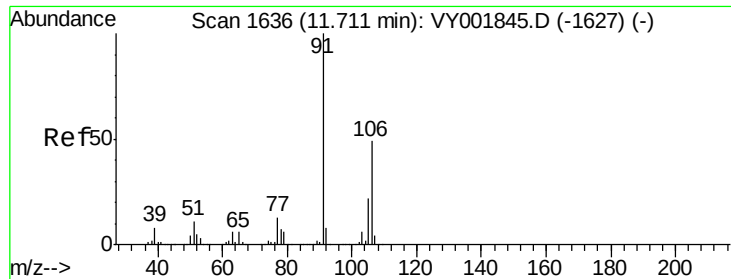
Tgt Ion:117 Resp: 289111
Ion Ratio Lower Upper
117 100
82 54.2 44.5 66.7
119 32.4 25.7 38.5



#67
Ethyl Benzene
Concen: 2.075 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Tgt Ion: 91 Resp: 22292
Ion Ratio Lower Upper
91 100
106 31.3 25.4 38.2

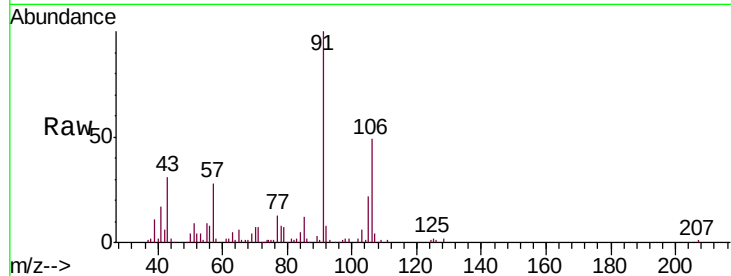




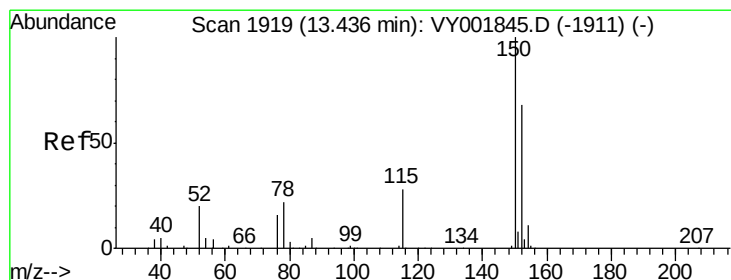
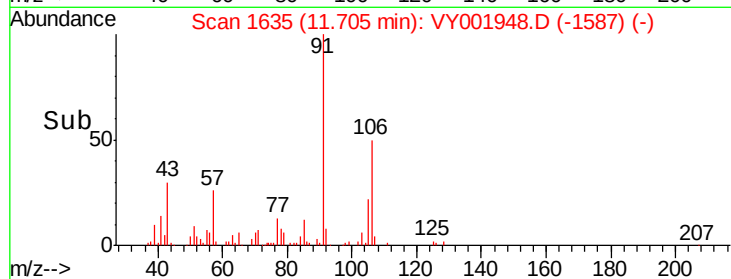
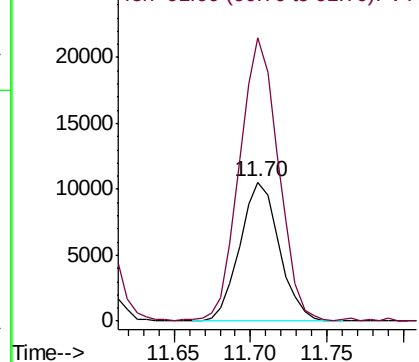
#68
m/p-Xylenes
Concen: 4.735 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-2(8-9)RE

Tgt Ion:106 Resp: 18808
Ion Ratio Lower Upper
106 100
91 202.4 161.3 241.9

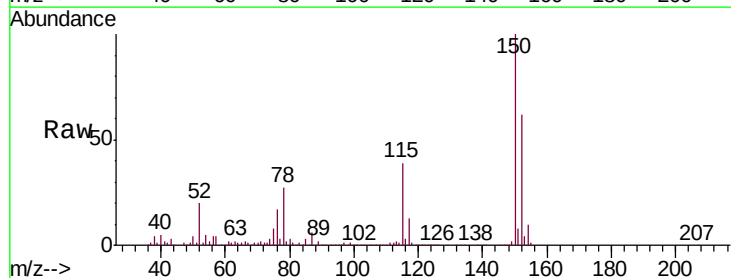


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

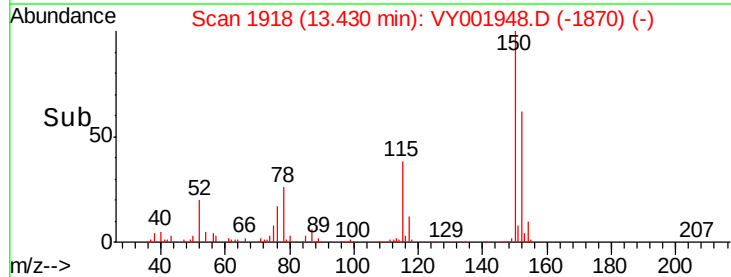
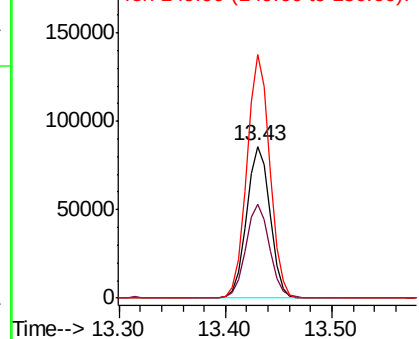


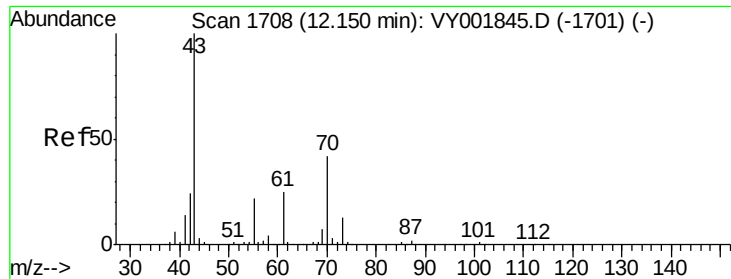
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Tgt Ion:152 Resp: 132888
Ion Ratio Lower Upper
152 100
115 61.9 29.9 89.7
150 156.6 0.0 340.6



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





#74

N-amyI acetate

Concen: 2.046 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.02 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

Instrument :

MSVOA_Y

ClientSampleId :

TP-2(8-9)RE

Tgt Ion: 43 Resp: 6379

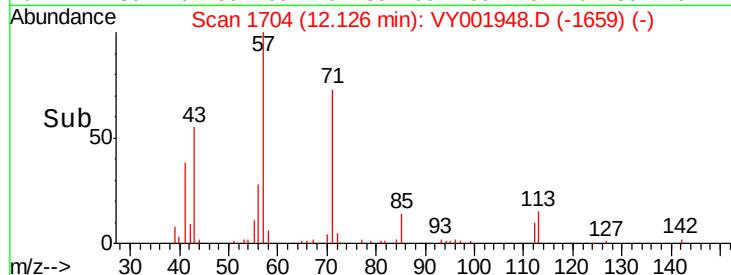
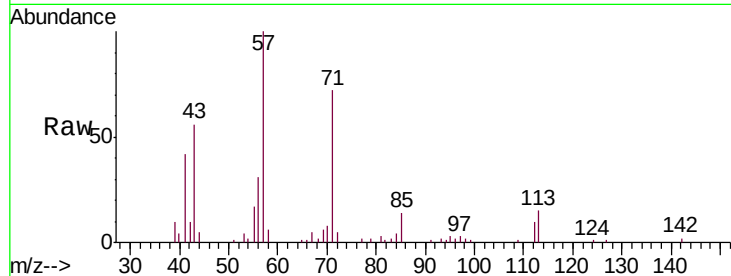
Ion Ratio Lower Upper

43 100

70 14.7 34.7 52.1#

55 8.7 18.2 27.4#

61 0.0 20.1 30.1#

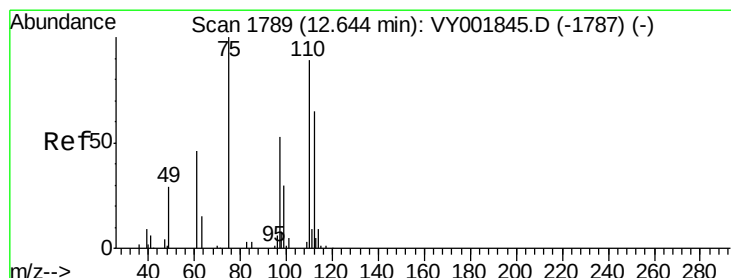
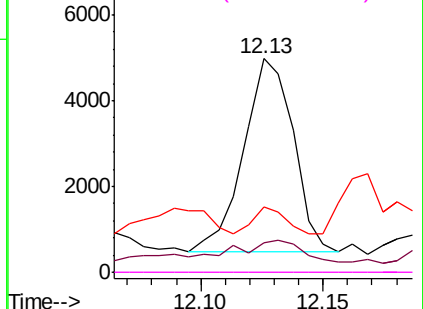


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0



#76

1,2,3-Trichloropropane

Concen: 43.118 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY001948.D

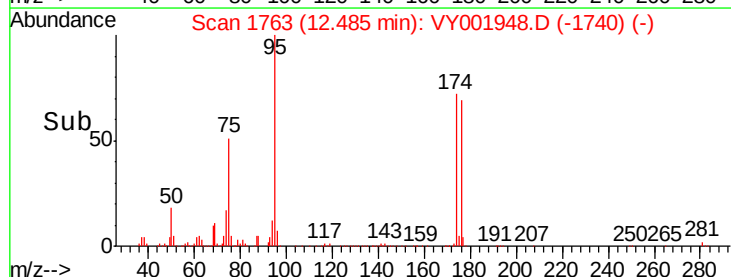
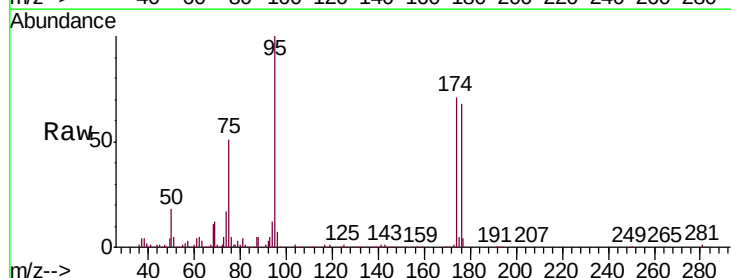
Acq: 11 Mar 2020 17:08

Tgt Ion: 75 Resp: 67989

Ion Ratio Lower Upper

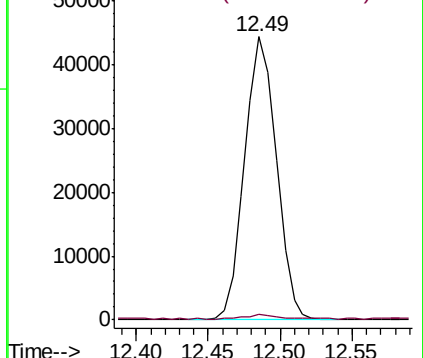
75 100

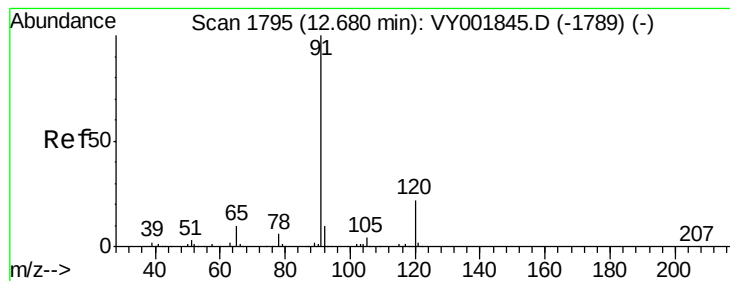
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#78

n-propylbenzene

Concen: 1.586 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

Instrument :

MSVOA_Y

ClientSampled :

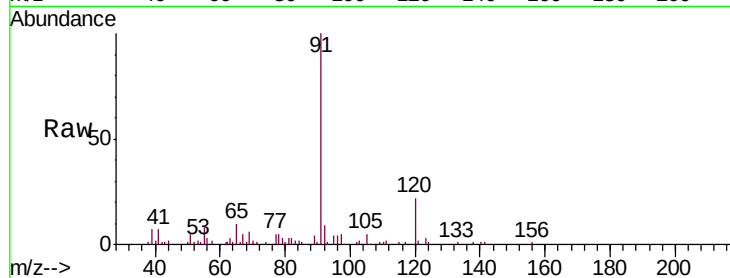
TP-2(8-9)RE

Tgt Ion: 91 Resp: 19844

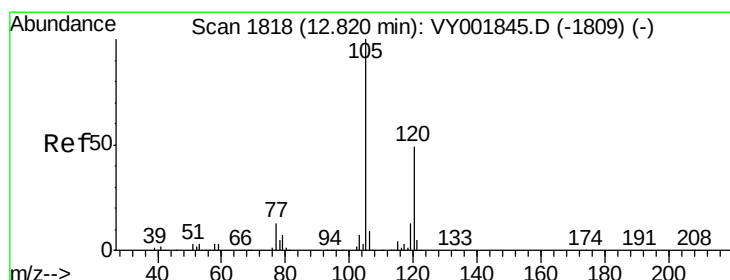
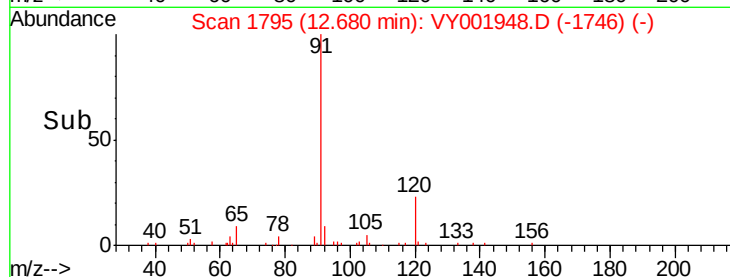
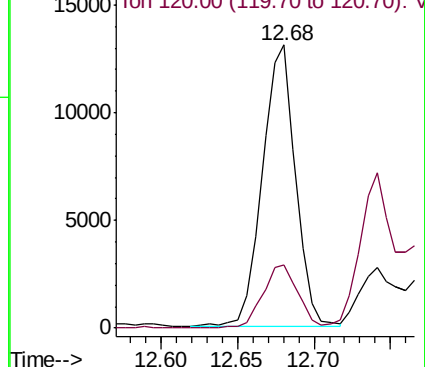
Ion Ratio Lower Upper

91 100

120 23.8 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VY001948.D (-1789) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.346 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VY001948.D

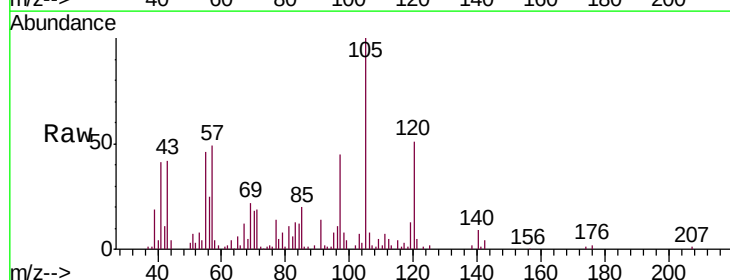
Acq: 11 Mar 2020 17:08

Tgt Ion: 105 Resp: 19595

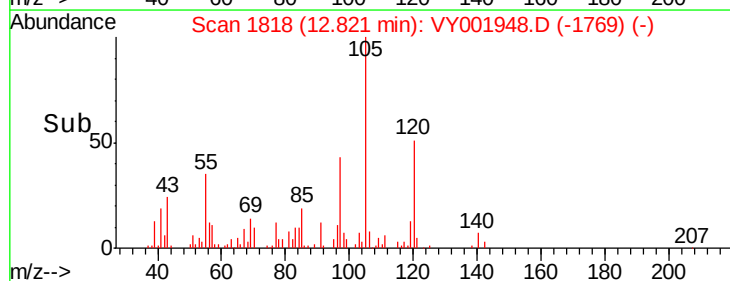
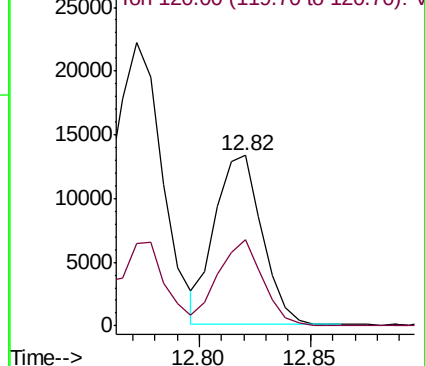
Ion Ratio Lower Upper

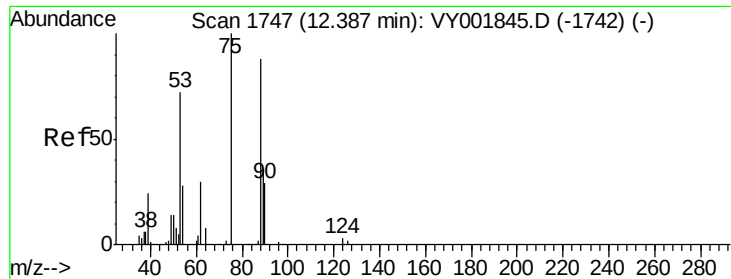
105 100

120 48.3 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VY001948.D (-1769) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 87.097 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001948.D

Acq: 11 Mar 2020 17:08

Instrument :

MSVOA_Y

ClientSampleId :

TP-2(8-9)RE

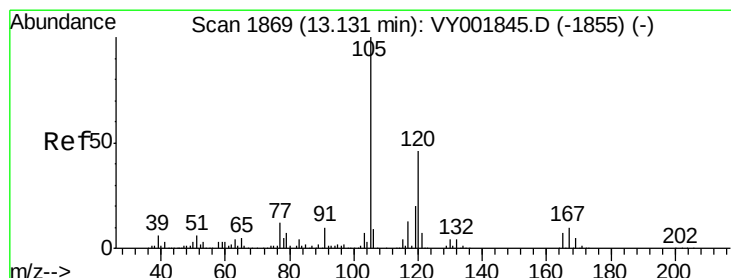
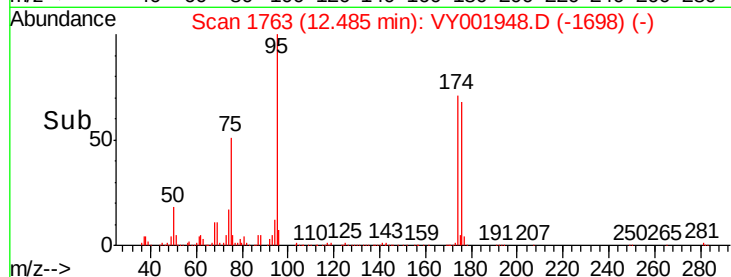
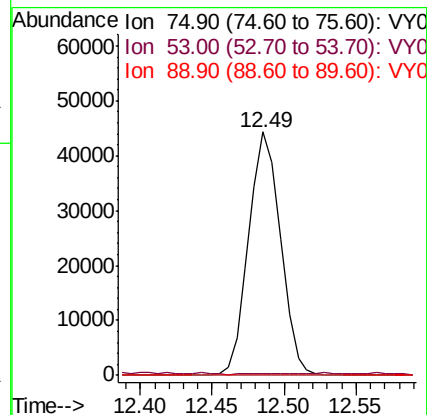
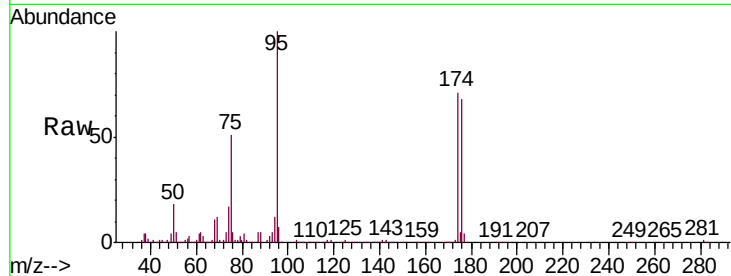
Tgt Ion: 75 Resp: 67989

Ion Ratio Lower Upper

75 100

53 0.3 65.4 98.0#

89 0.0 36.0 54.0#



#84

1,2,4-Trimethylbenzene

Concen: 10.457 ug/l

RT: 13.13 min Scan# 1868

Delta R.T. -0.01 min

Lab File: VY001948.D

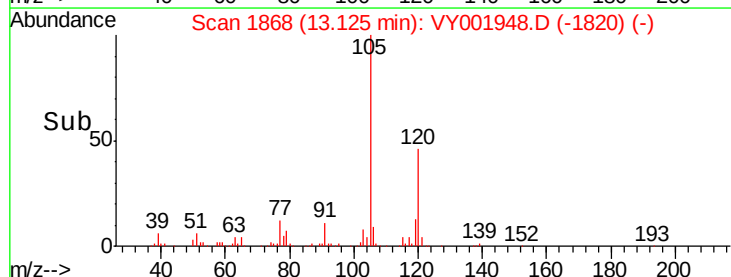
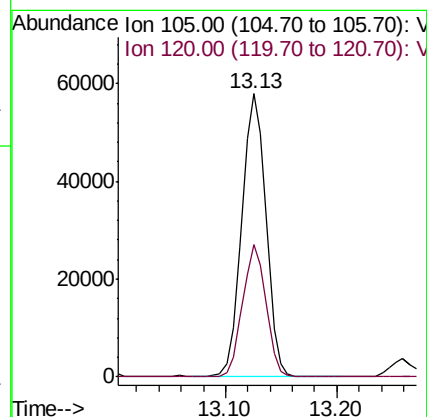
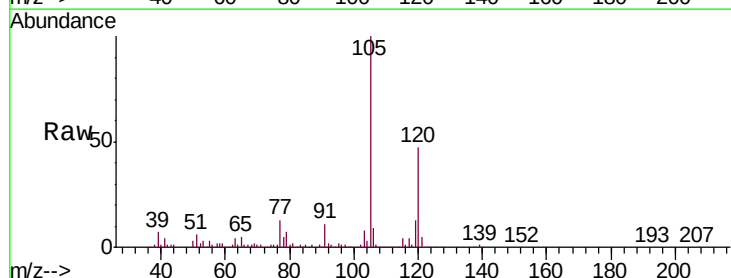
Acq: 11 Mar 2020 17:08

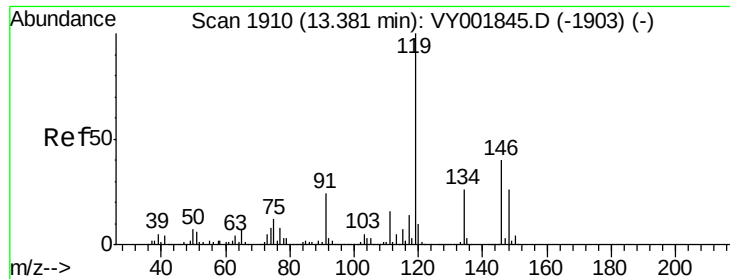
Tgt Ion: 105 Resp: 86668

Ion Ratio Lower Upper

105 100

120 45.4 22.6 67.7

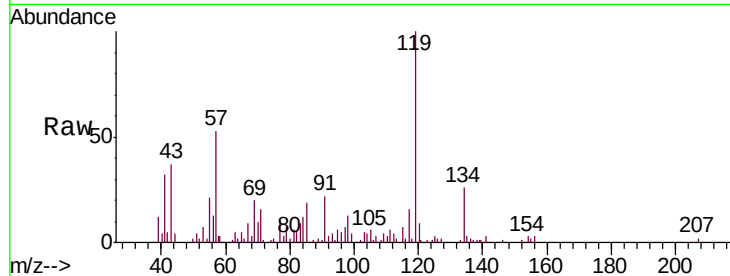




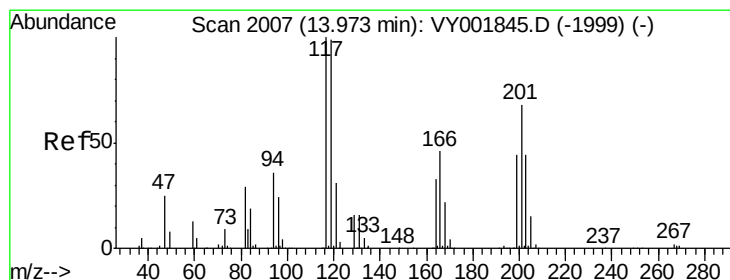
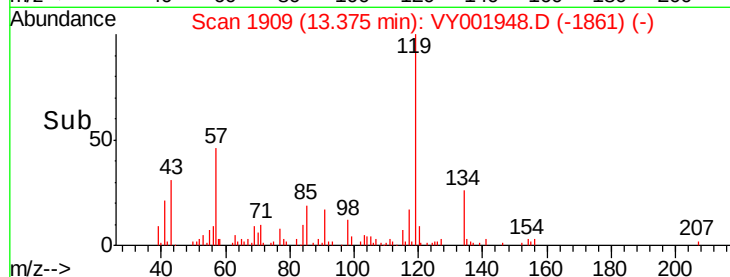
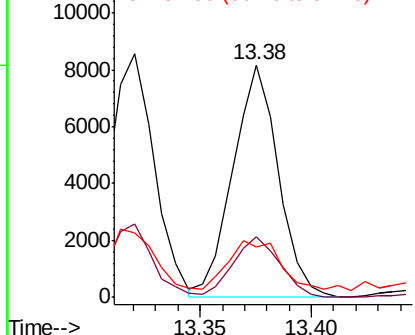
#86
p-Isopropyltoluene
Concen: 1.317 ug/l
RT: 13.38 min Scan# 1909
Delta R.T. -0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-2(8-9)RE

Tgt Ion:119 Resp: 11617
Ion Ratio Lower Upper
119 100
134 26.5 13.1 39.3
91 22.9 11.9 35.7

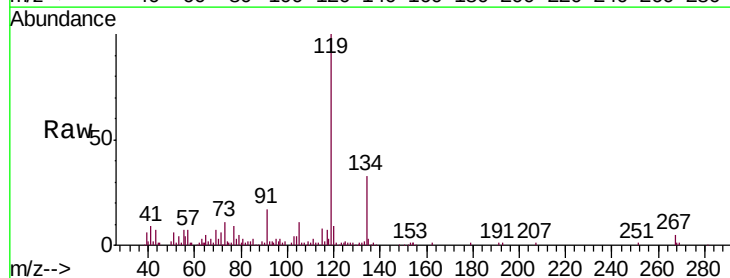


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

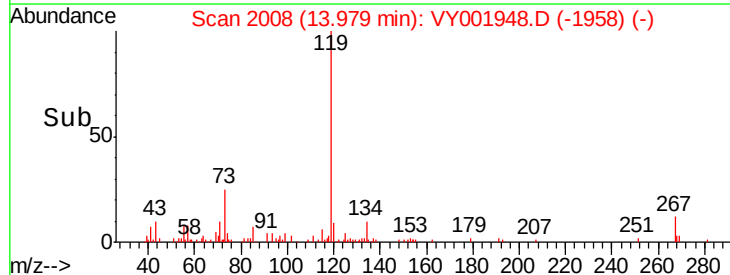
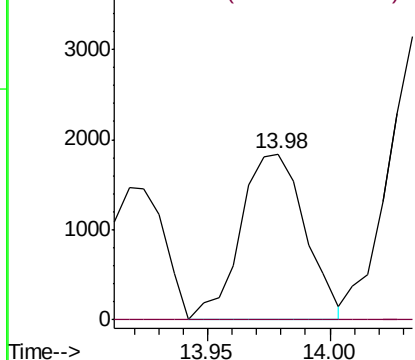


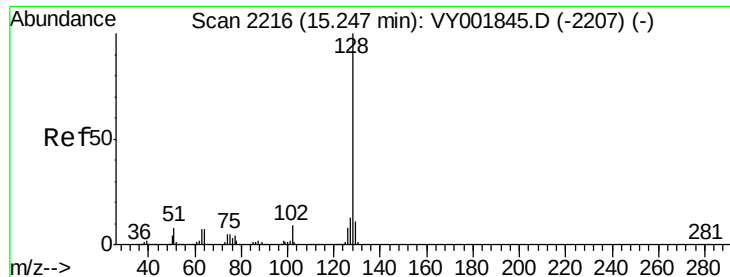
#90
Hexachloroethane
Concen: 2.027 ug/l
RT: 13.98 min Scan# 2008
Delta R.T. 0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Tgt Ion:117 Resp: 3373
Ion Ratio Lower Upper
117 100
201 0.0 32.5 97.5#



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

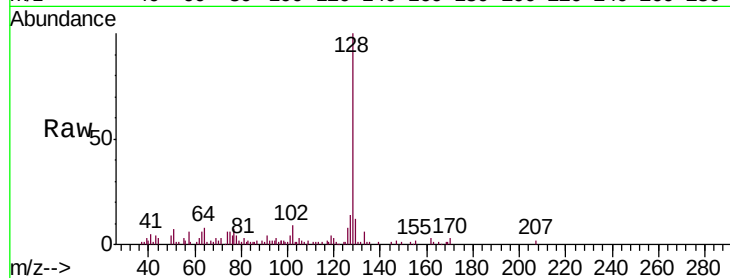




#95
Naphthalene
Concen: 3.737 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. -0.01 min
Lab File: VY001948.D
Acq: 11 Mar 2020 17:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-2(8-9)RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.1	10.1	15.1
129	13.1	8.6	13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

