

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY041420\
 Data File : VY002308.D
 Acq On : 14 Apr 2020 15:04
 Operator : SY/MD
 Sample : L2230-47
 Misc : 7.24G/5ML/MSVOA Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Apr 15 05:35:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y040820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 08 15:15:02 2020
 Response via : Initial Calibration

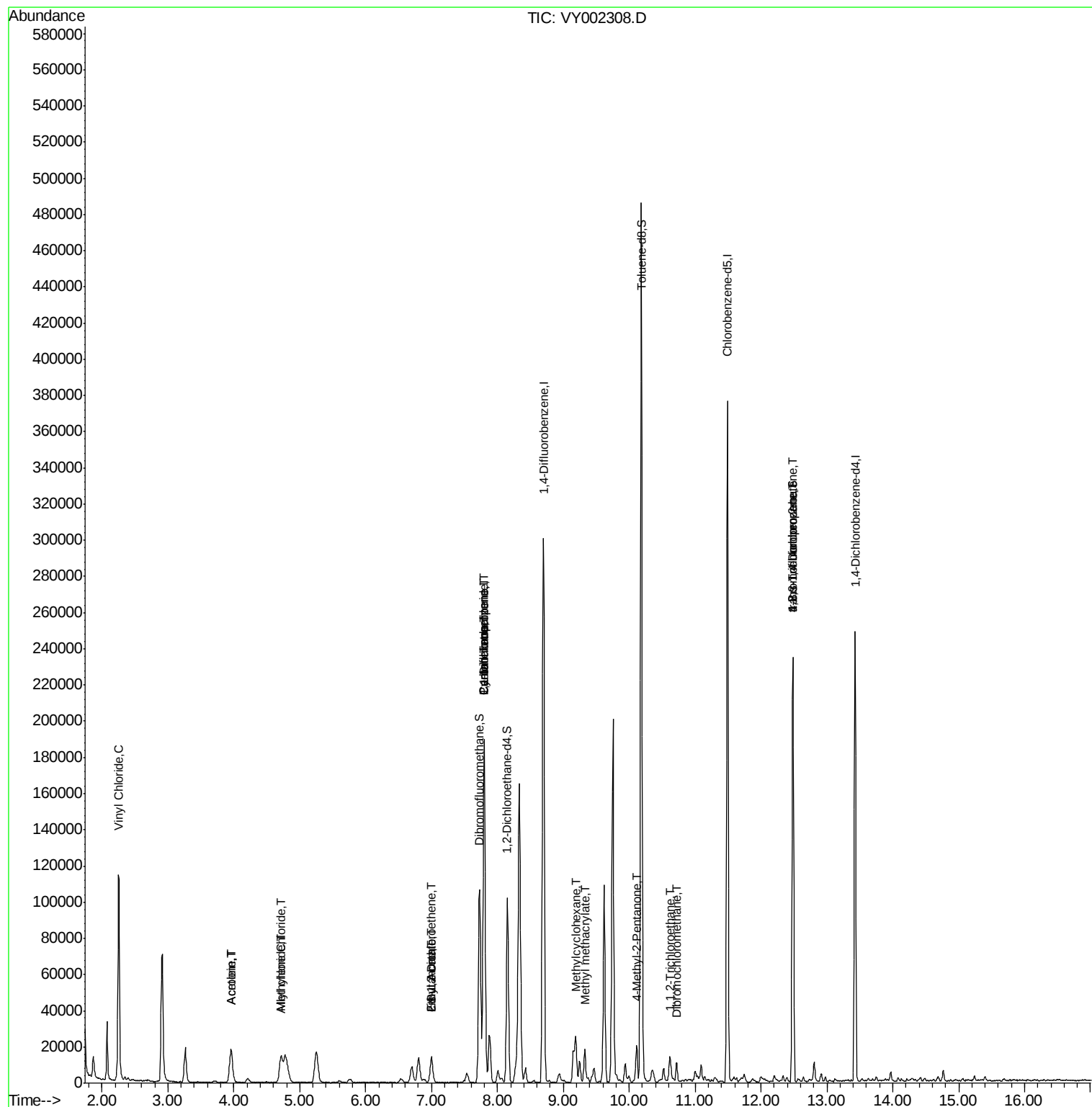
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	138714	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	271797	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	213853	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	62003	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	73430	47.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.20%	
35) Dibromofluoromethane	7.73	113	79186	48.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.92%	
50) Toluene-d8	10.18	98	323509	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	
62) 4-Bromofluorobenzene	12.48	95	78305	35.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.12%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.25	62	2532	1.348	ug/l	94
11) Tert butyl alcohol	4.99	59	21	Below Cal	#	77
13) Acrolein	3.96	56	2714	13.645	ug/l #	65
14) Allyl chloride	4.71	41	5531	2.045	ug/l #	65
16) Acetone	3.96	43	23033	56.691	ug/l	97
20) Methylene Chloride	4.72	84	2448	1.226	ug/l #	88
25) 2-Butanone	7.00	43	7381	11.479	ug/l #	81
27) cis-1,2-Dichloroethene	7.00	96	5518	2.693	ug/l	83
31) Cyclohexane	7.80	56	9275	2.854	ug/l #	50
36) 1,1-Dichloropropene	7.80	75	10911	4.076	ug/l #	49
37) Ethyl Acetate	7.00	43	7381	4.826	ug/l #	1
38) Carbon Tetrachloride	7.80	117	14170	6.188	ug/l #	16
39) Methylcyclohexane	9.19	83	10590	2.908	ug/l	96
48) Methyl methacrylate	9.32	41	4067	3.252	ug/l #	29
51) 4-Methyl-2-Pentanone	10.11	43	2590	1.782	ug/l #	70
55) 1,1,2-Trichloroethane	10.62	97	4707	3.051	ug/l #	22
60) Dibromochloromethane	10.72	129	1686	1.025	ug/l #	10
76) 1,2,3-Trichloropropane	12.48	75	37570	52.181	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	37570	101.492	ug/l #	19

(#) = 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. -0.00 min

Lab File: VY002308.D

Acq: 14 Apr 2020 15:04

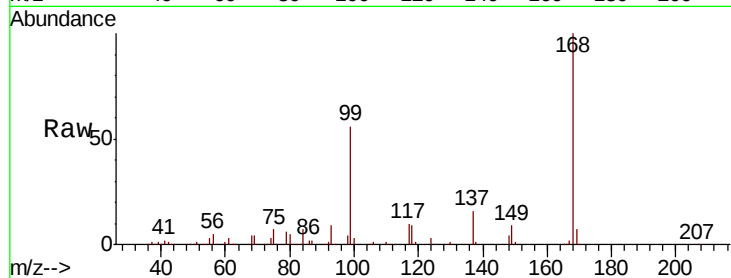
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 138714

Ion Ratio Lower Upper

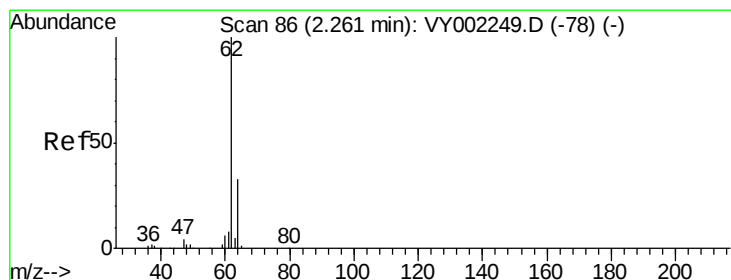
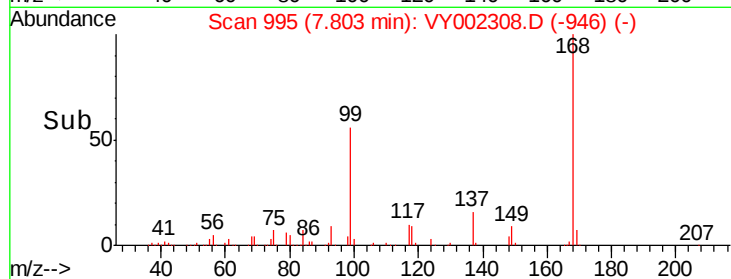
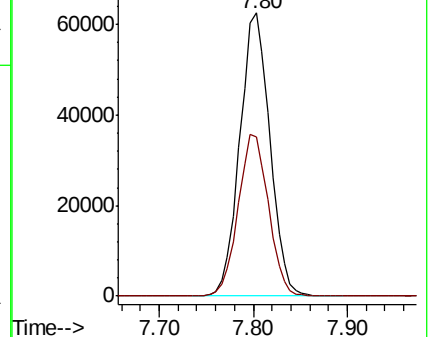
168 100

99 56.3 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VY002249.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002249.D (-985) (-)



#4

Vinyl Chloride

Concen: 1.348 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.01 min

Lab File: VY002308.D

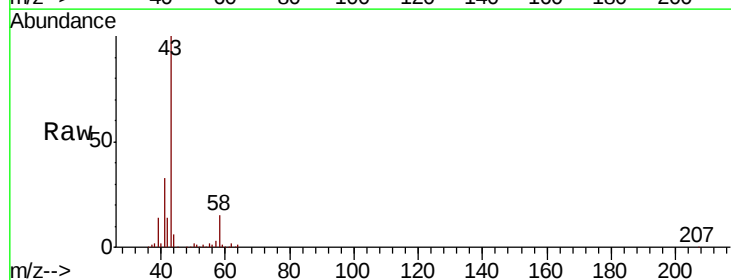
Acq: 14 Apr 2020 15:04

Tgt Ion: 62 Resp: 2532

Ion Ratio Lower Upper

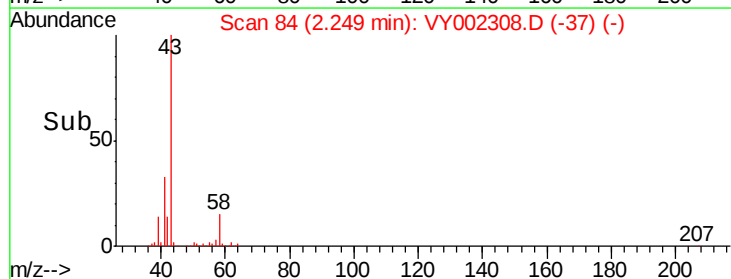
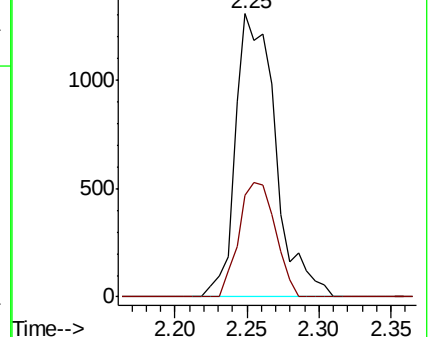
62 100

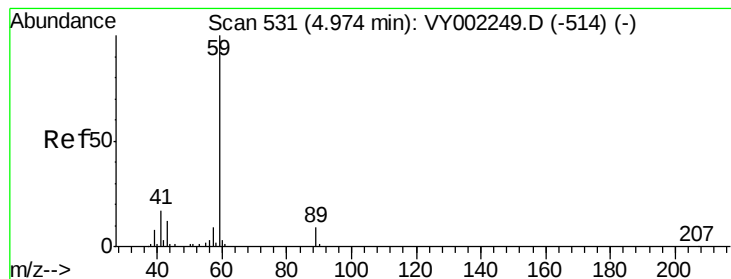
64 36.0 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VY002249.D (-78) (-)

Ion 63.90 (63.60 to 64.60): VY002249.D (-78) (-)



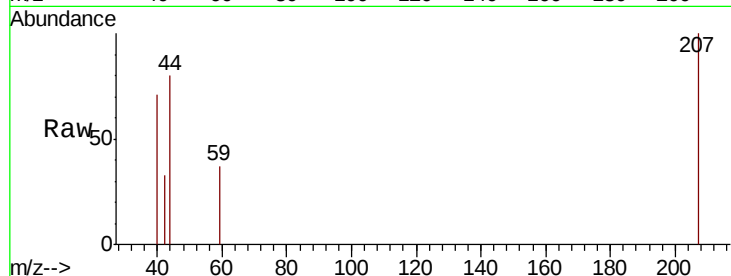


#11

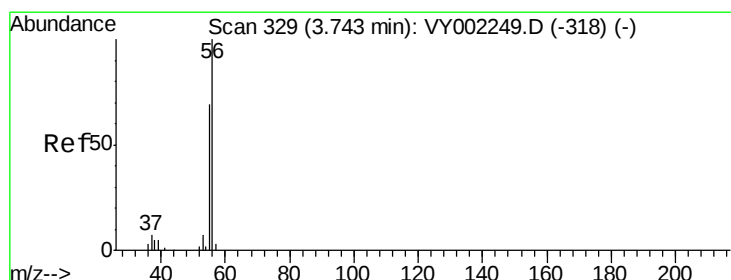
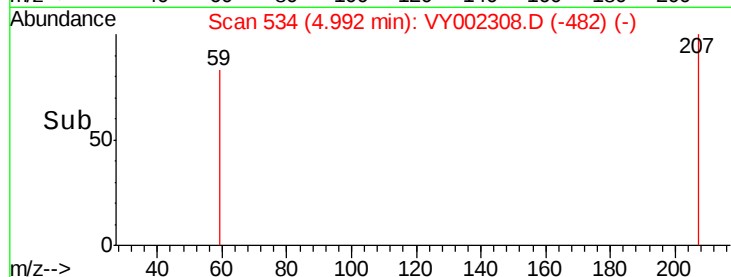
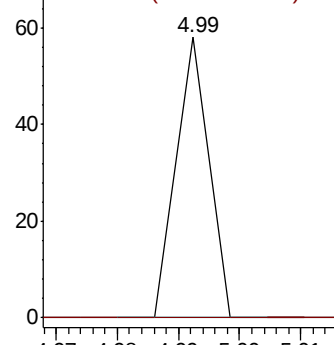
Tert butyl alcohol
 Concen: Below Cal
 RT: 4.99 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VY002308.D
 Acq: 14 Apr 2020 15:04

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion: 59 Resp: 21
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.6 9.8#



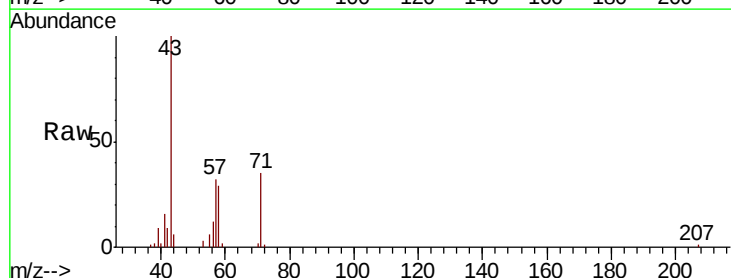
Abundance Ion 59.00 (58.70 to 59.70): VY0
 Ion 57.00 (56.70 to 57.70): VY0



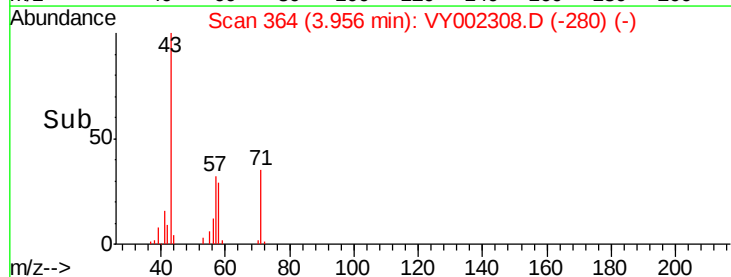
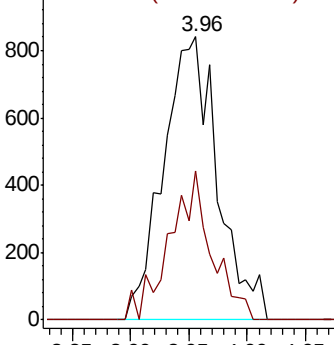
#13

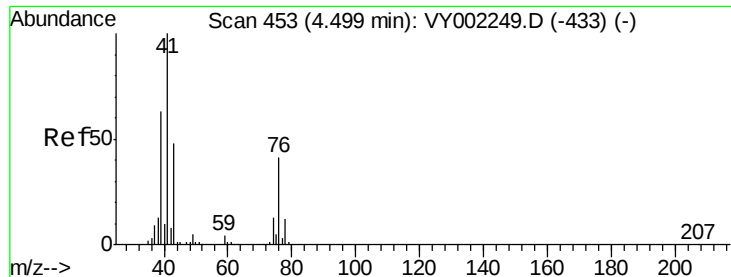
Acrolein
 Concen: 13.645 ug/l
 RT: 3.96 min Scan# 364
 Delta R.T. 0.21 min
 Lab File: VY002308.D
 Acq: 14 Apr 2020 15:04

Tgt Ion: 56 Resp: 2714
 Ion Ratio Lower Upper
 56 100
 55 41.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VY0
 Ion 55.00 (54.70 to 55.70): VY0

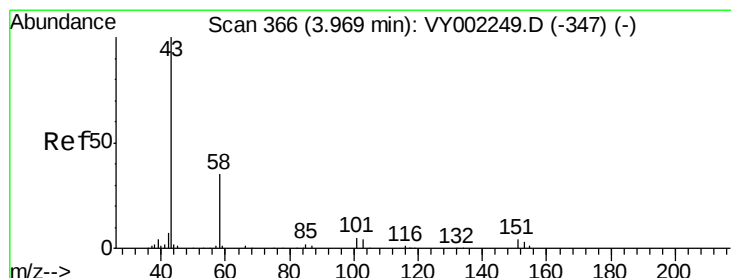
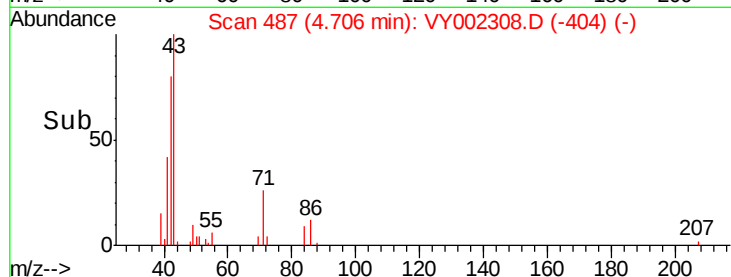
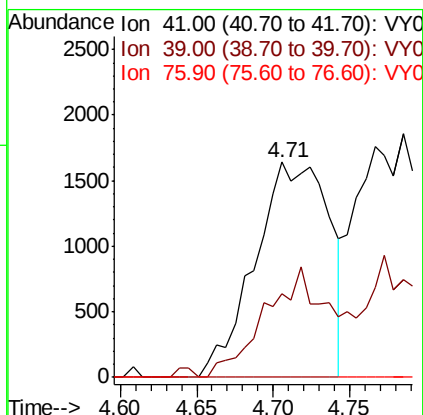
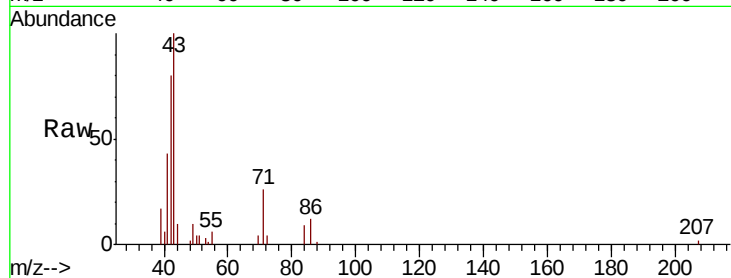




#14
Allvl chloride
Concen: 2.045 ug/l
RT: 4.71 min Scan# 487
Delta R.T. 0.21 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

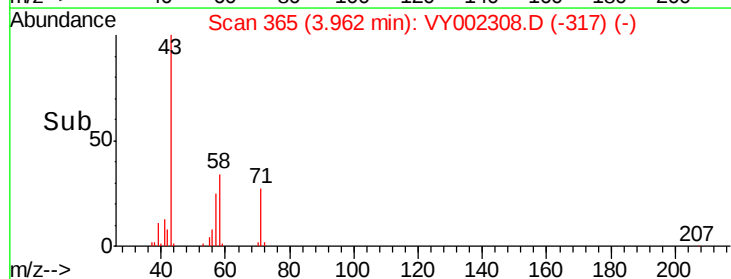
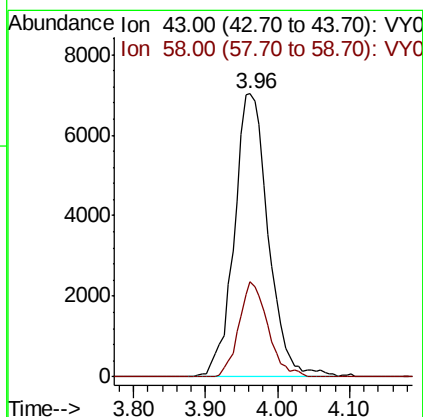
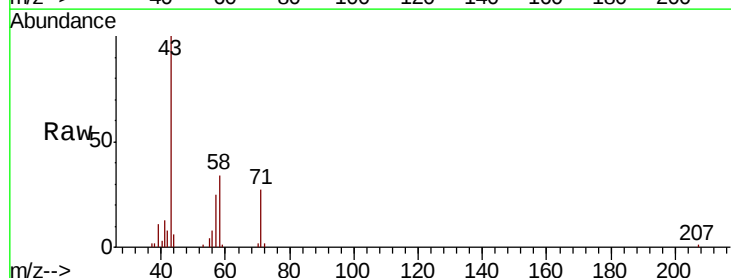
Instrument :
MSVOA_Y
ClientSampled :

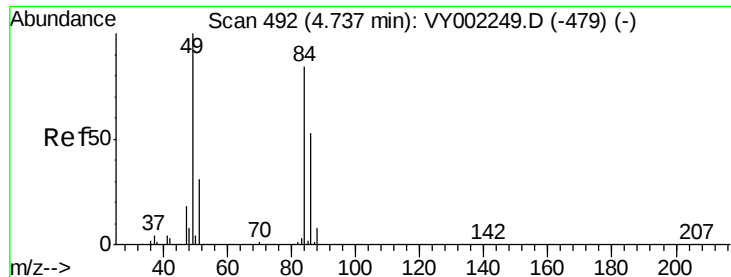
Tot Ion: 41 Resp: 5531
Ion Ratio Lower Upper
41 100
39 47.5 48.0 72.0#
76 0.0 31.0 46.6#



#16
Acetone
Concen: 56.691 ug/l
RT: 3.96 min Scan# 365
Delta R.T. -0.01 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

Tgt Ion: 43 Resp: 23033
Ion Ratio Lower Upper
43 100
58 33.8 28.5 42.7

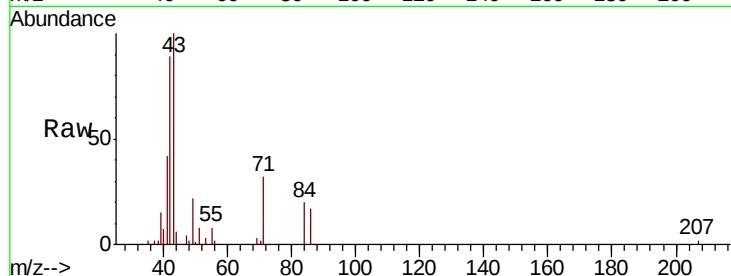




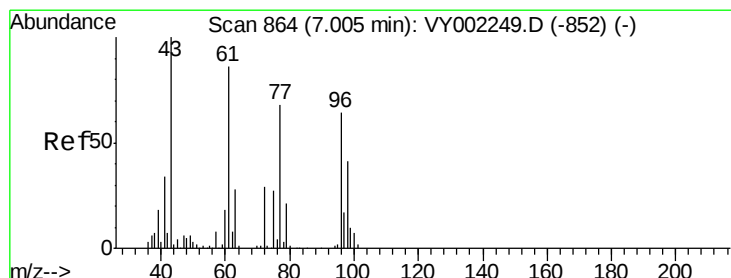
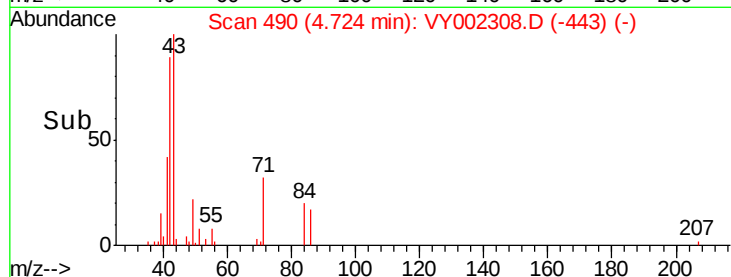
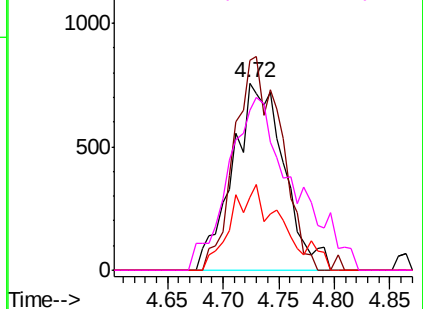
#20
Methvlene Chloride
Concen: 1.226 ug/l
RT: 4.72 min Scan# 490
Delta R.T. -0.01 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 84 Resp: 2448
Ion Ratio Lower Upper
84 100
49 112.3 95.5 143.3
51 38.9 29.5 44.3
86 85.4 50.7 76.1#

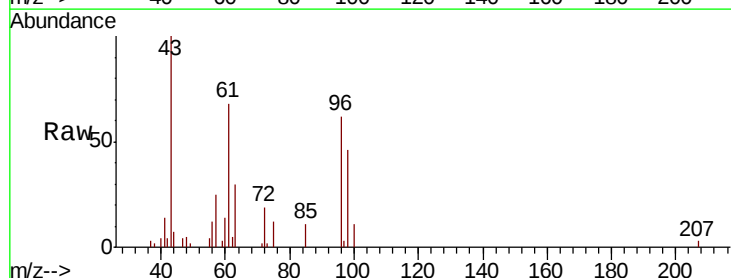


Abundance Ion 83.90 (83.60 to 84.60): VY0
Ion 48.90 (48.60 to 49.60): VY0
Ion 50.90 (50.60 to 51.60): VY0
Ion 85.90 (85.60 to 86.60): VY0

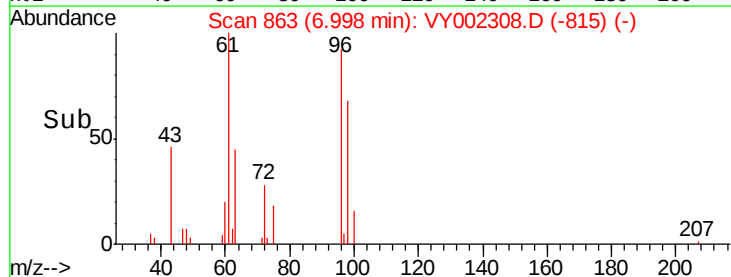
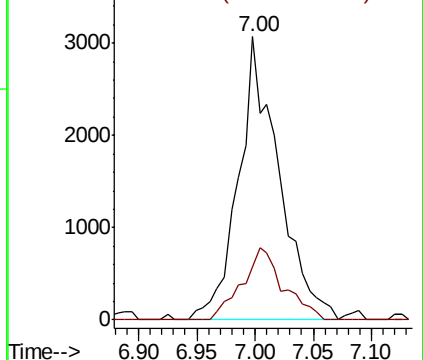


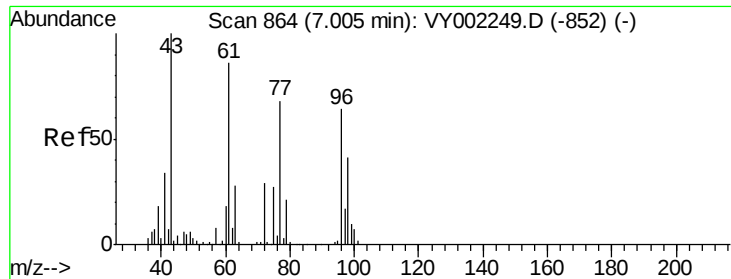
#25
2-Butanone
Concen: 11.479 ug/l
RT: 7.00 min Scan# 863
Delta R.T. -0.01 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

Tgt Ion: 43 Resp: 7381
Ion Ratio Lower Upper
43 100
72 18.9 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 72.00 (71.70 to 72.70): VY0



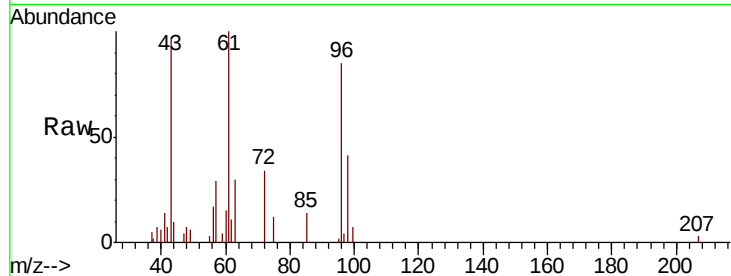


#27

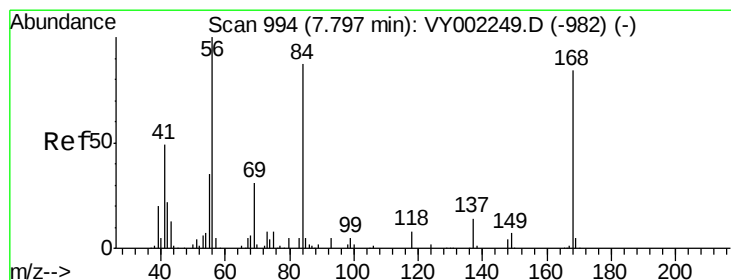
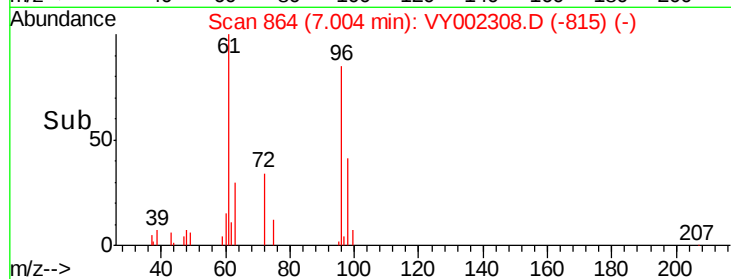
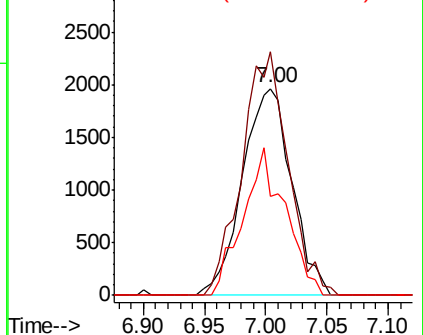
cis-1,2-Dichloroethene
 Concen: 2.693 ug/l
 RT: 7.00 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VY002308.D
 Acq: 14 Apr 2020 15:04

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion: 96 Resp: 5518
 Ion Ratio Lower Upper
 96 100
 61 110.5 0.0 278.0
 98 61.3 0.0 128.6



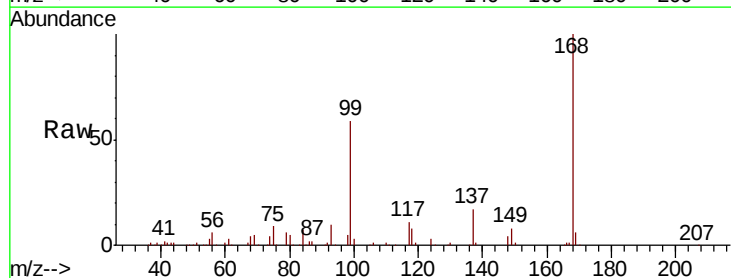
Abundance Ion 95.90 (95.60 to 96.60): VY0
 Ion 60.90 (60.60 to 61.60): VY0
 Ion 97.90 (97.60 to 98.60): VY0



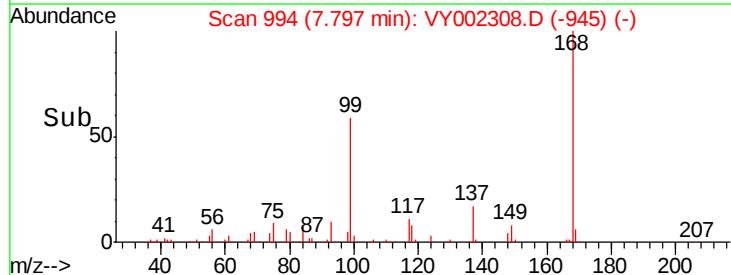
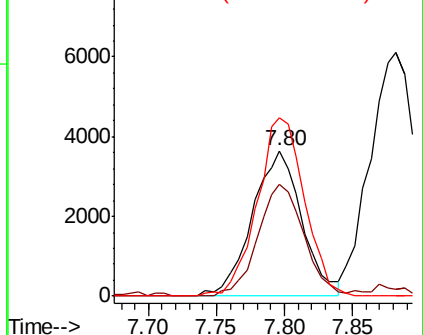
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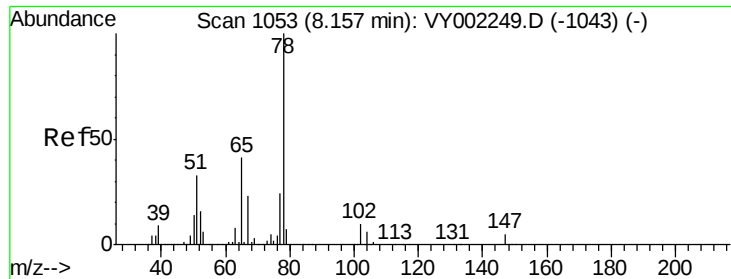
Cyclohexane
 Concen: 2.854 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VY002308.D
 Acq: 14 Apr 2020 15:04

Tgt Ion: 56 Resp: 9275
 Ion Ratio Lower Upper
 56 100
 69 76.5 25.0 37.6#
 84 123.0 69.7 104.5#



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

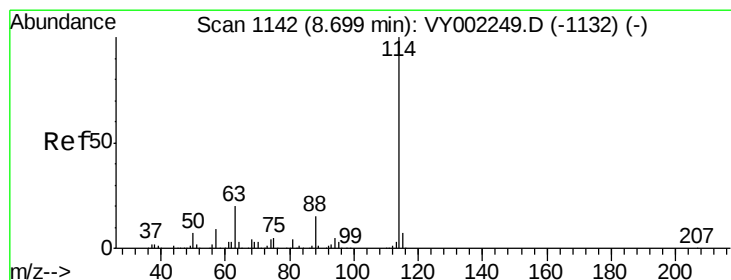
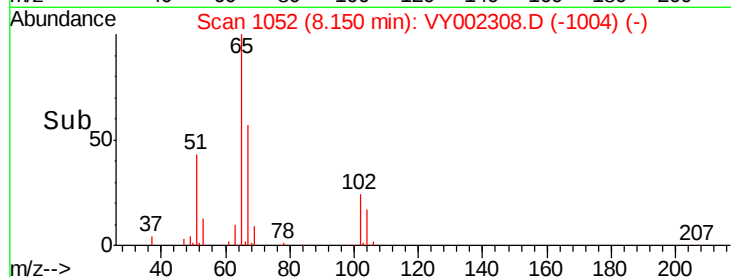
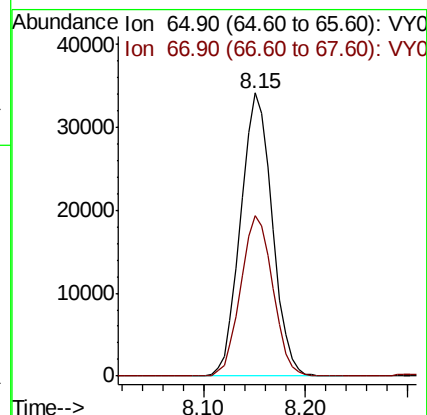
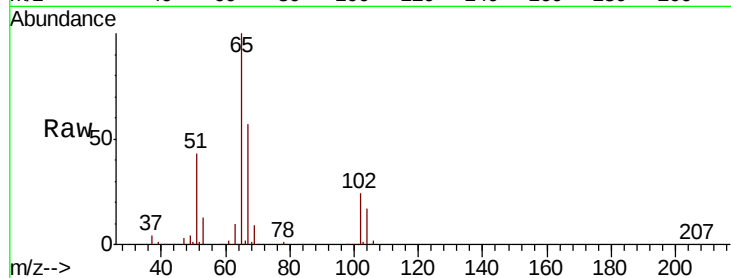




#33
 1,2-Dichloroethane-d4
 Concen: 47.601 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VY002308.D
 Acq: 14 Apr 2020 15:04

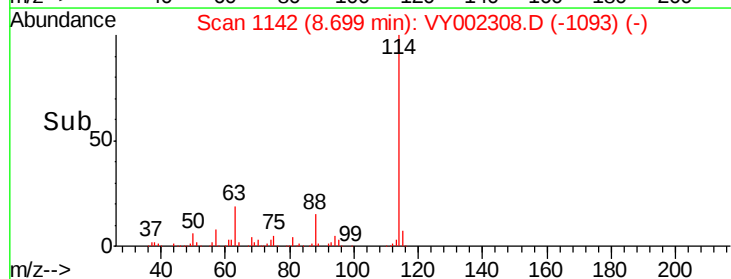
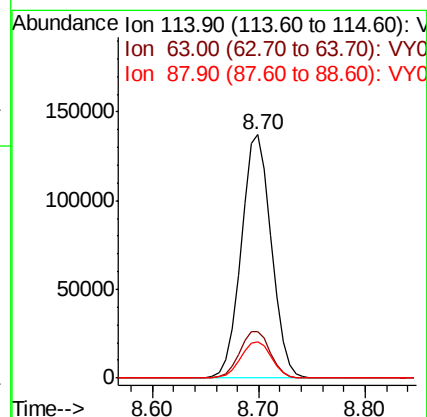
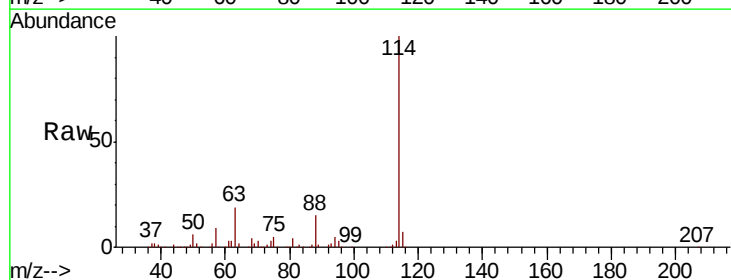
Instrument :
 MSVOA_Y
 ClientSampleId :

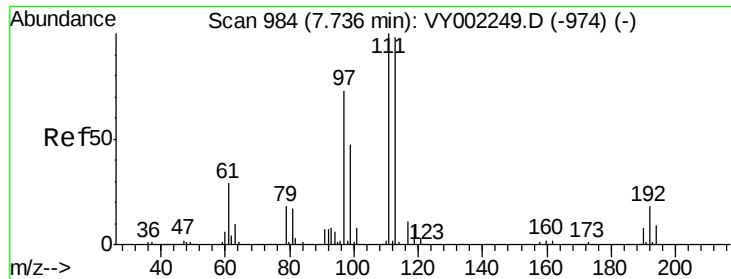
Tot Ion: 65 Resp: 73430
 Ion Ratio Lower Upper
 65 100
 67 57.5 0.0 114.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VY002308.D
 Acq: 14 Apr 2020 15:04

Tgt Ion: 114 Resp: 271797
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.0
 88 15.0 0.0 31.0

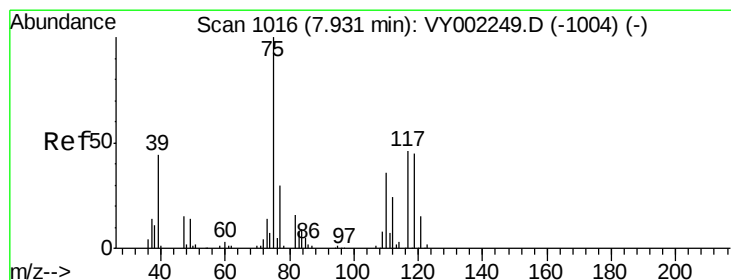
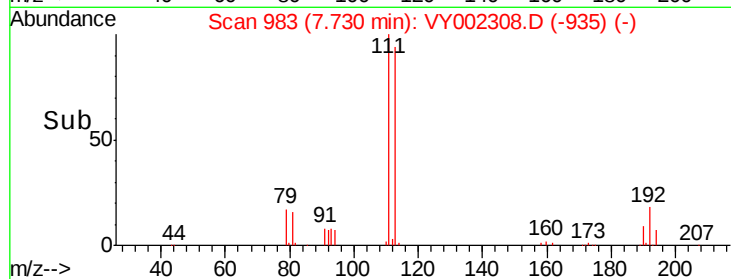
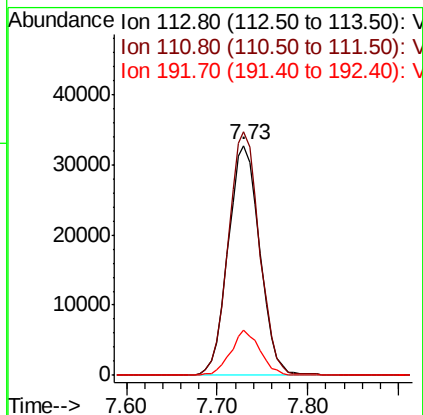
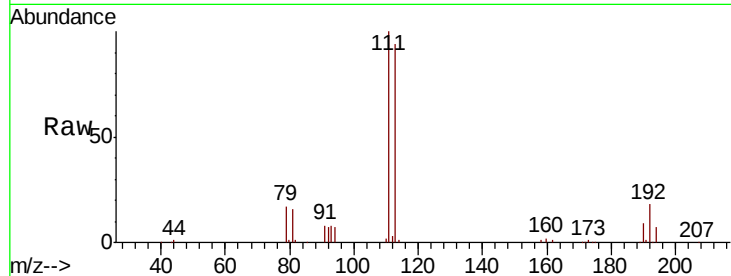




#35
 Dibromofluoromethane
 Concen: 48.962 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.01 min
 Lab File: VY002308.D
 Acq: 14 Apr 2020 15:04

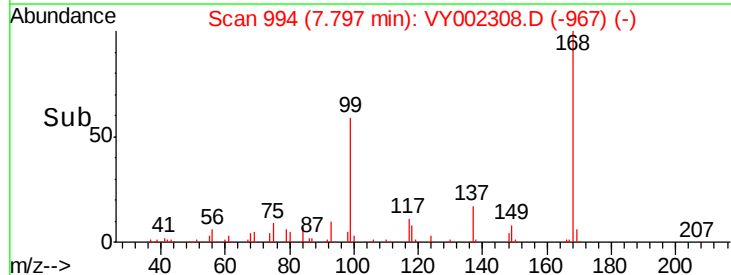
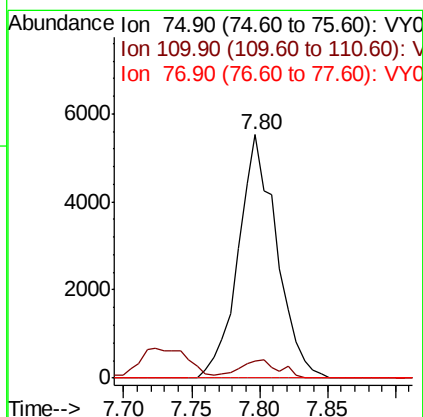
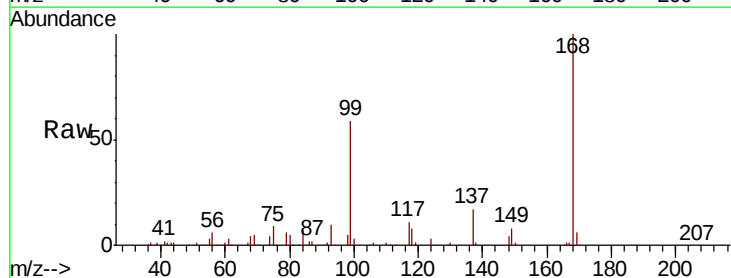
Instrument :
 MSVOA_Y
 ClientSampleId :

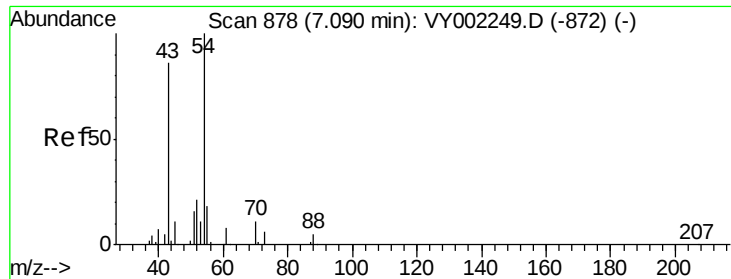
Tot Ion:113 Resp: 79186
 Ion Ratio Lower Upper
 113 100
 111 103.7 83.5 125.3
 192 18.2 14.7 22.1



#36
 1,1-Dichloropropene
 Concen: 4.076 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY002308.D
 Acq: 14 Apr 2020 15:04

Tgt Ion: 75 Resp: 10911
 Ion Ratio Lower Upper
 75 100
 110 7.7 17.8 53.3#
 77 0.0 24.4 36.6#

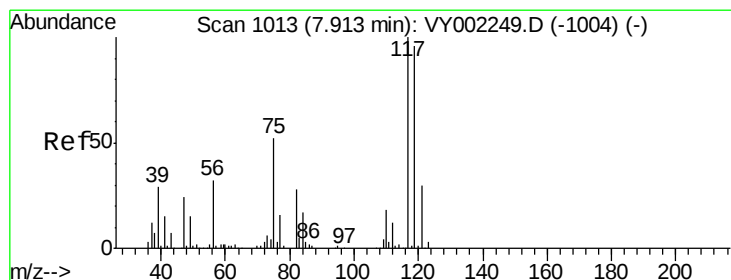
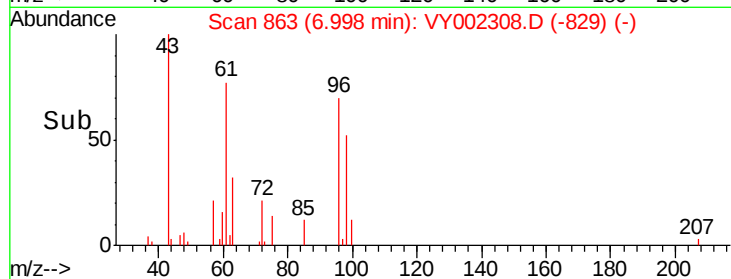
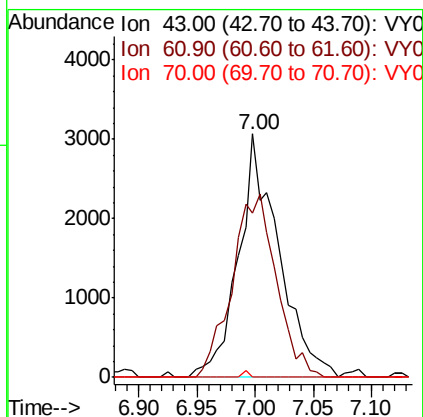
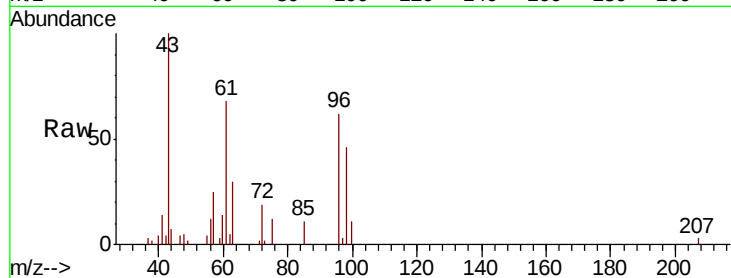




#37
Ethyl Acetate
Concen: 4.826 ug/l
RT: 7.00 min Scan# 863
Delta R.T. -0.09 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

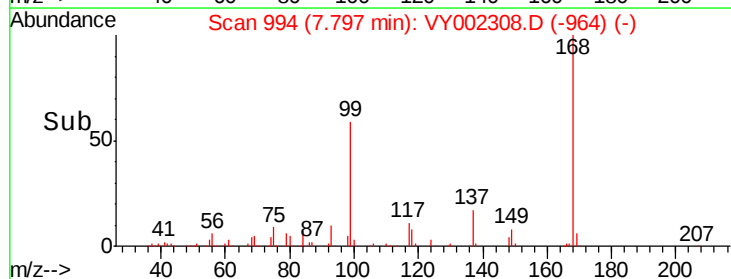
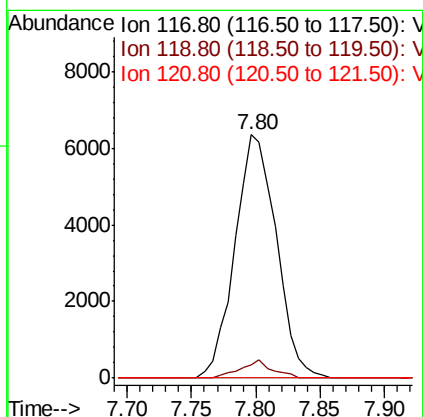
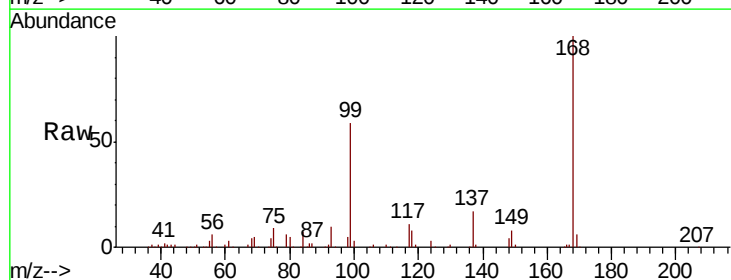
Instrument :
MSVOA_Y
ClientSampleId :

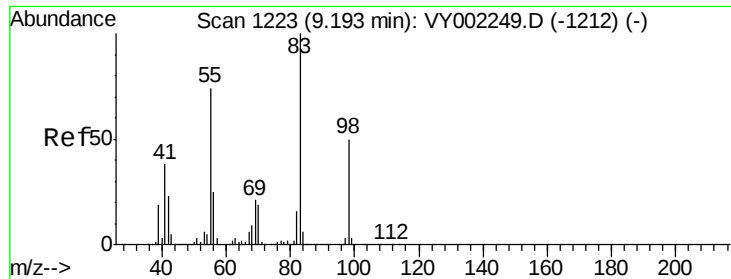
Tot Ion: 43 Resp: 7381
Ion Ratio Lower Upper
43 100
61 82.6 11.8 17.6#
70 0.4 9.1 13.7#



#38
Carbon Tetrachloride
Concen: 6.188 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.12 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

Tgt Ion: 117 Resp: 14170
Ion Ratio Lower Upper
117 100
119 5.5 77.1 115.7#
121 0.0 23.9 35.9#

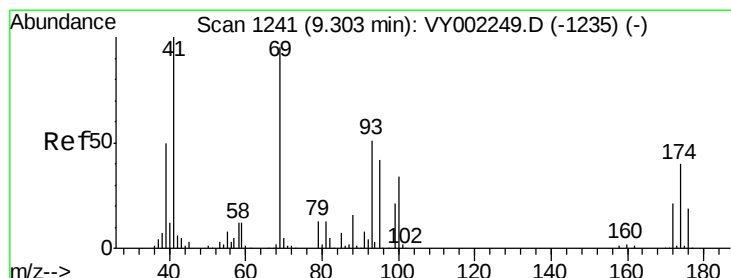
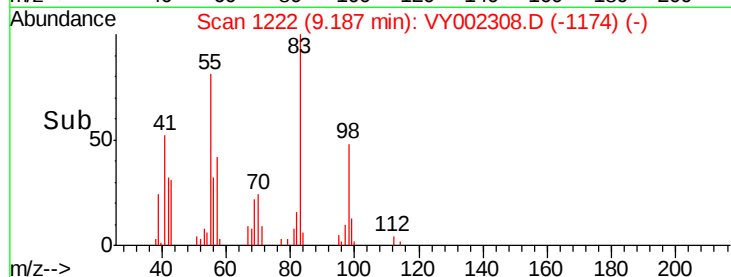
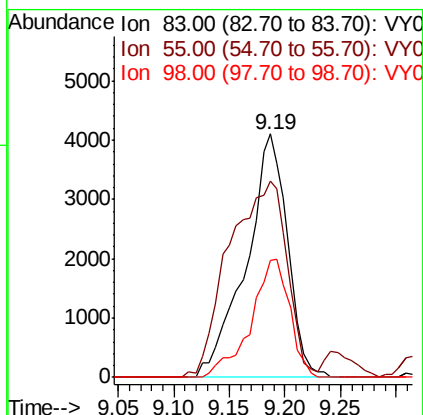
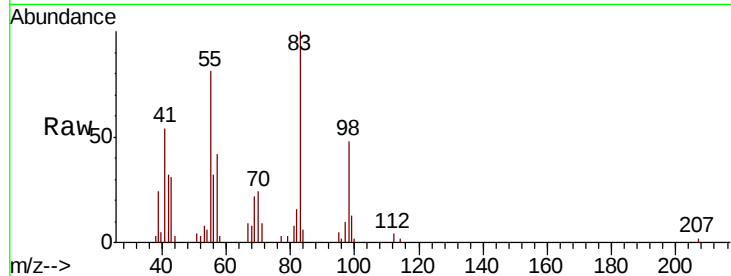




#39
Methylcyclohexane
Concen: 2.908 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.01 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

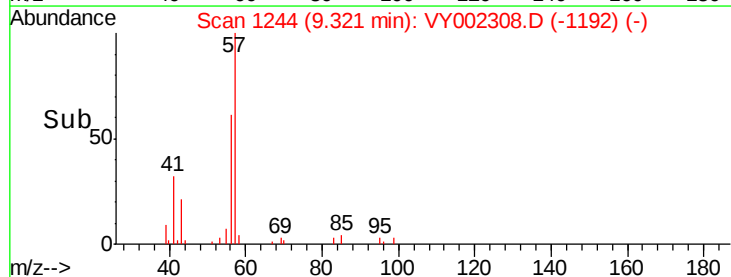
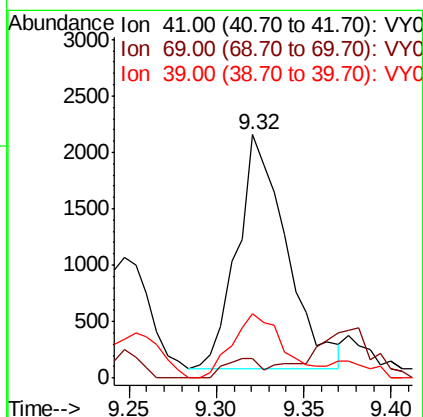
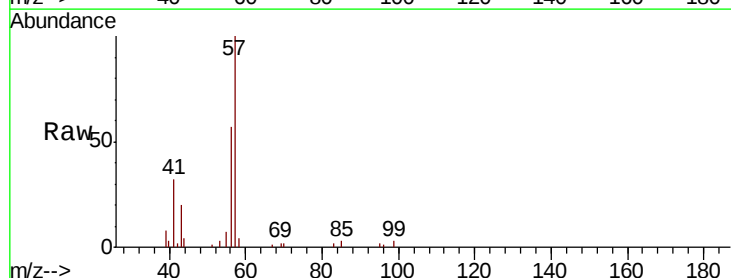
Instrument :
MSVOA_Y
ClientSampled :

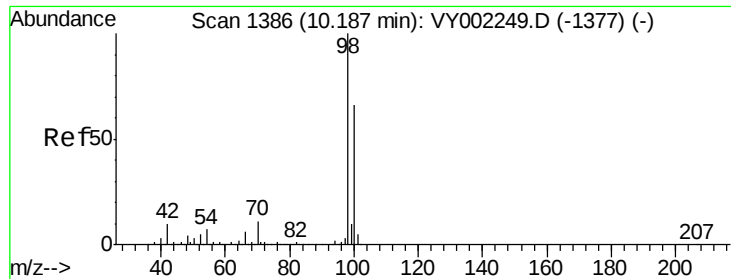
Tot Ion: 83 Resp: 10590
Ion Ratio Lower Upper
83 100
55 78.2 59.3 88.9
98 48.2 39.6 59.4



#48
Methyl methacrylate
Concen: 3.252 ug/l
RT: 9.32 min Scan# 1244
Delta R.T. 0.02 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

Tgt Ion: 41 Resp: 4067
Ion Ratio Lower Upper
41 100
69 5.9 76.7 115.1#
39 28.4 40.5 60.7#





#50

Toluene-d8

Concen: 47.791 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY002308.D

Acq: 14 Apr 2020 15:04

Instrument :

MSVOA_Y

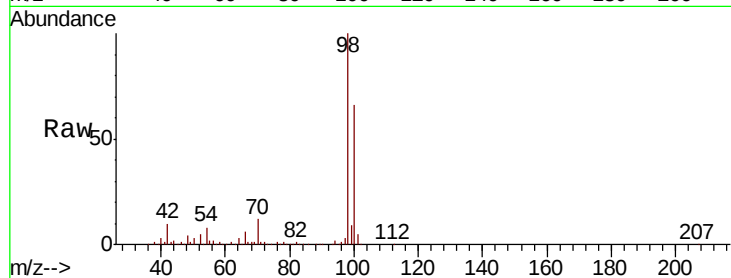
ClientSampleId :

Tot Ion: 98 Resp: 323509

Ion Ratio Lower Upper

98 100

100 65.5 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VY002249.D (-1377) (-)

Ion 100.00 (99.70 to 100.70): VY002249.D (-1377) (-)

10.18

200000

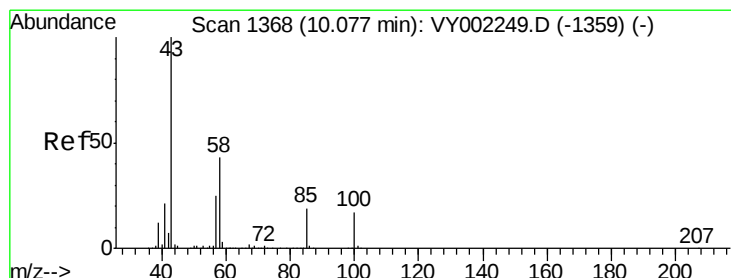
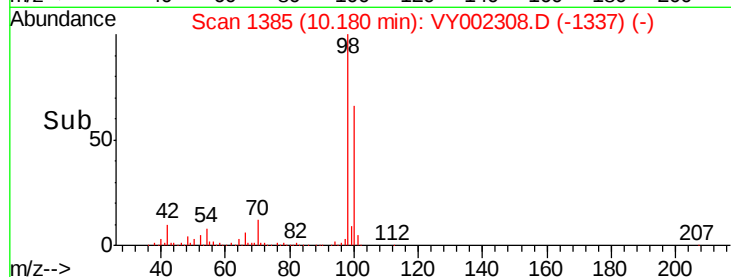
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.782 ug/l

RT: 10.11 min Scan# 1374

Delta R.T. 0.04 min

Lab File: VY002308.D

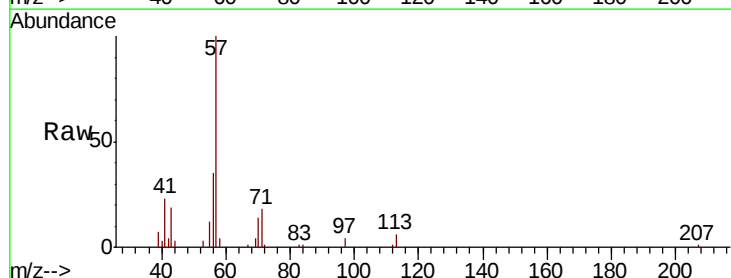
Acq: 14 Apr 2020 15:04

Tgt Ion: 43 Resp: 2590

Ion Ratio Lower Upper

43 100

58 23.1 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VY002249.D (-1359) (-)

Ion 58.00 (57.70 to 58.70): VY002249.D (-1359) (-)

10.11

2000

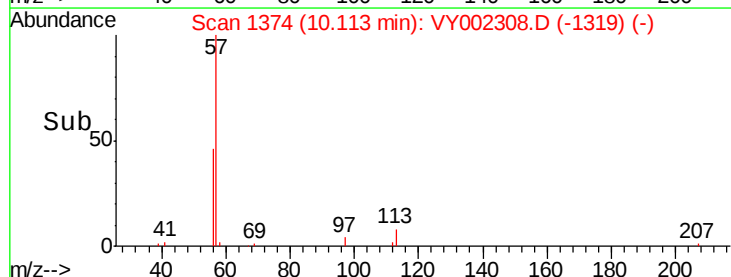
1500

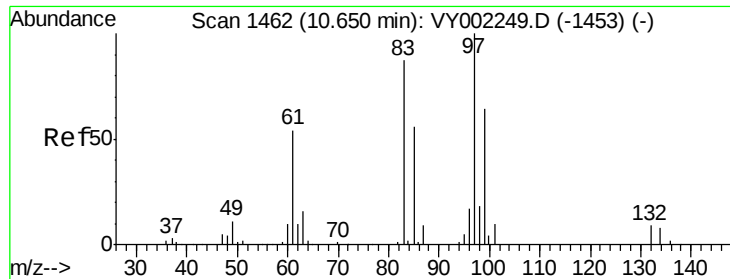
1000

500

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 3.051 ug/l

RT: 10.62 min Scan# 1457

Delta R.T. -0.03 min

Lab File: VY002308.D

Acq: 14 Apr 2020 15:04

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 97 Resp: 4707

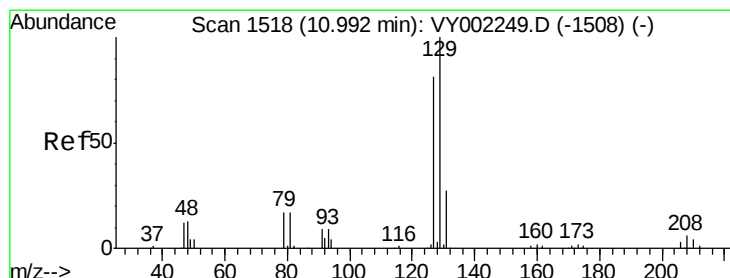
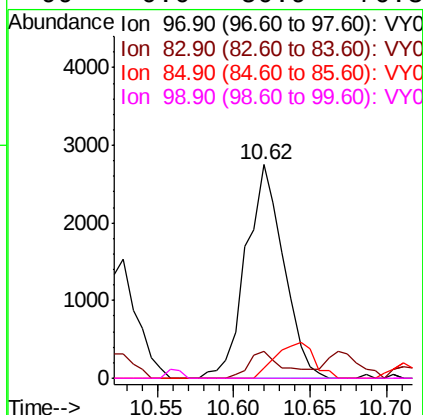
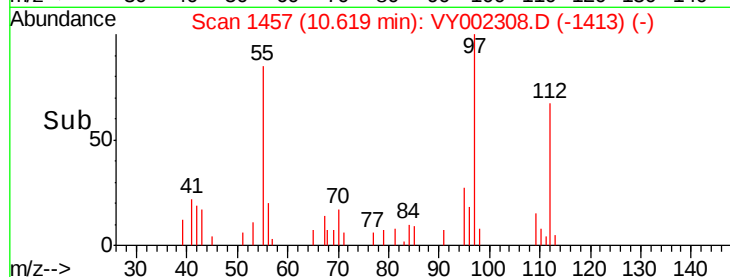
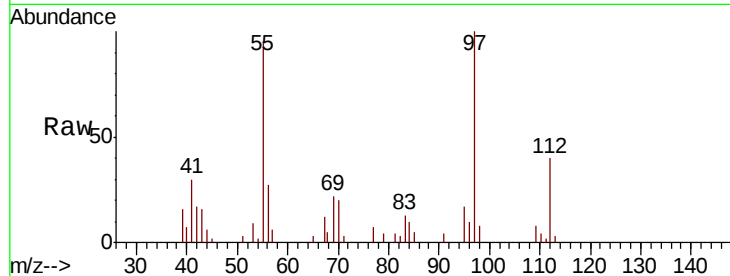
Ion Ratio Lower Upper

97 100

83 12.7 69.5 104.3#

85 4.9 45.2 67.8#

99 0.0 50.9 76.3#



#60

Dibromochloromethane

Concen: 1.025 ug/l

RT: 10.72 min Scan# 1474

Delta R.T. -0.27 min

Lab File: VY002308.D

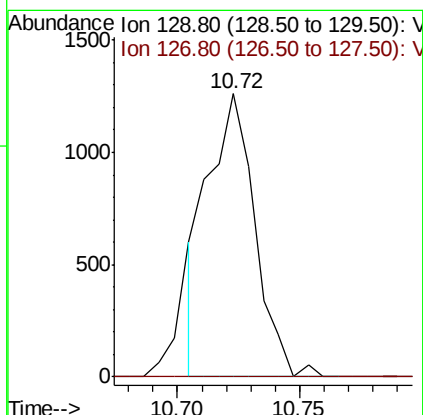
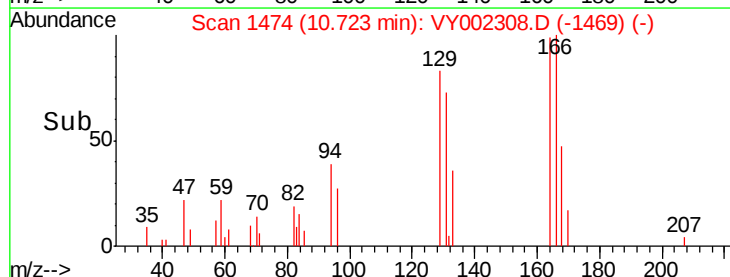
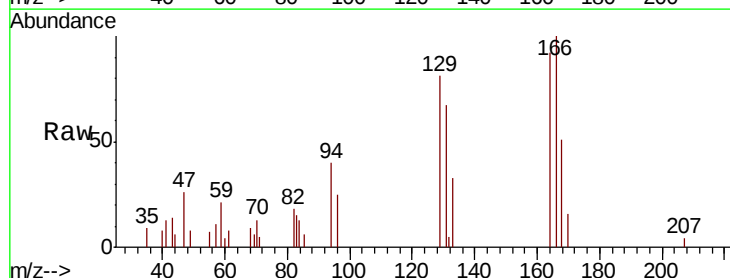
Acq: 14 Apr 2020 15:04

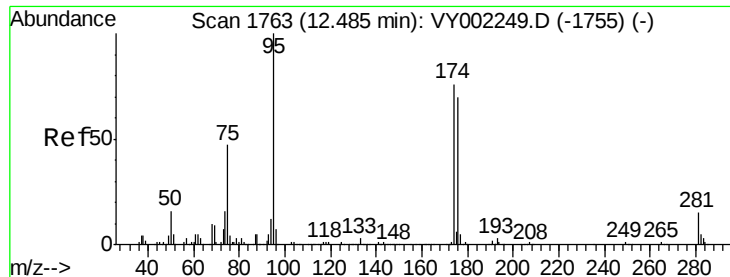
Tgt Ion: 129 Resp: 1686

Ion Ratio Lower Upper

129 100

127 0.0 39.0 117.0#

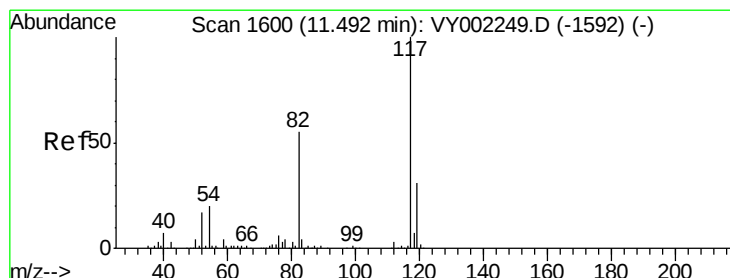
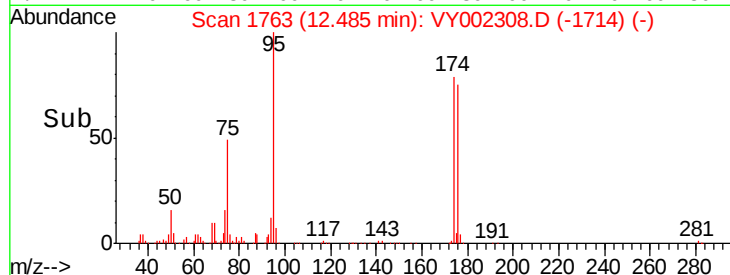
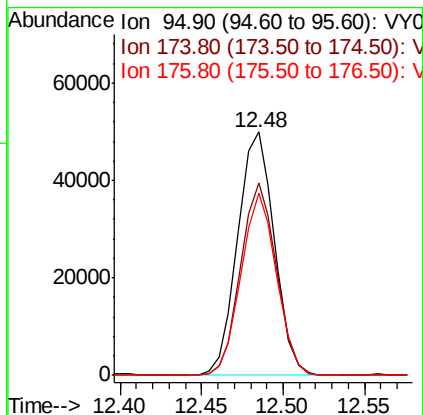
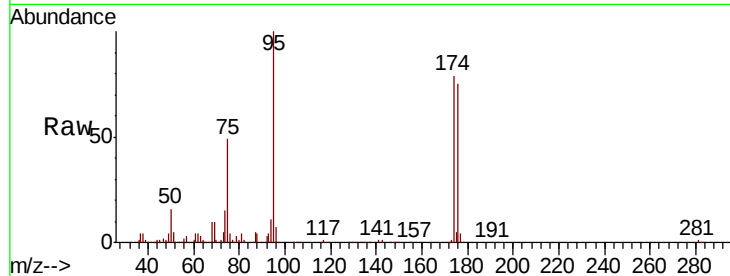




#62
4-Bromofluorobenzene
Concen: 35.063 ug/l
RT: 12.48 min Scan# 1763
Delta R.T. -0.00 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

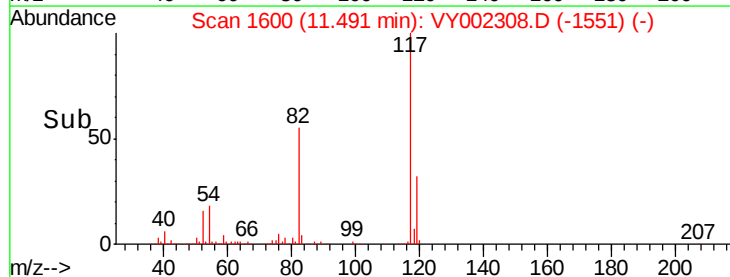
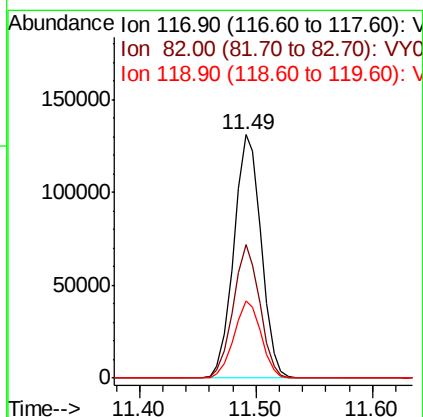
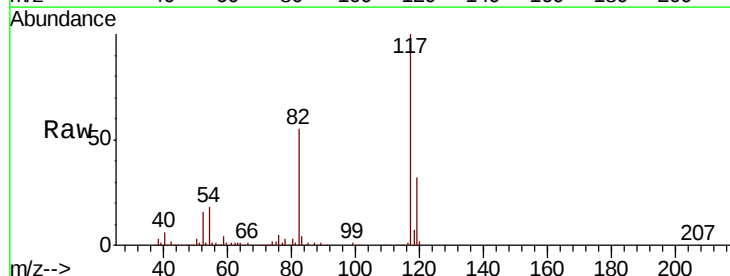
Instrument :
MSVOA_Y
ClientSampleId :

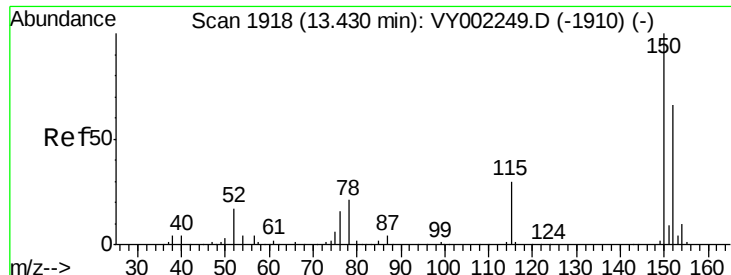
Tot Ion: 95 Resp: 78305
Ion Ratio Lower Upper
95 100
174 77.1 0.0 150.6
176 72.6 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

Tgt Ion: 117 Resp: 213853
Ion Ratio Lower Upper
117 100
82 54.9 44.2 66.4
119 31.9 25.1 37.7



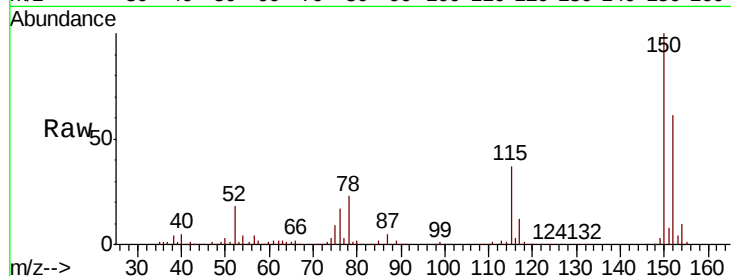


#72

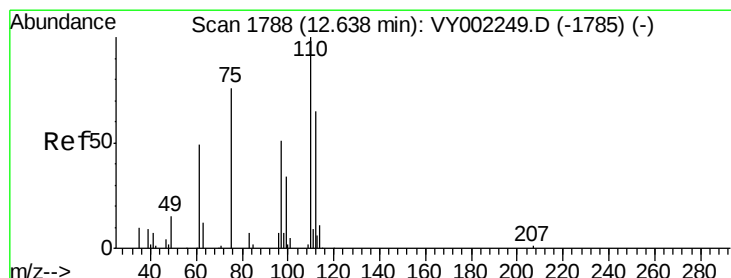
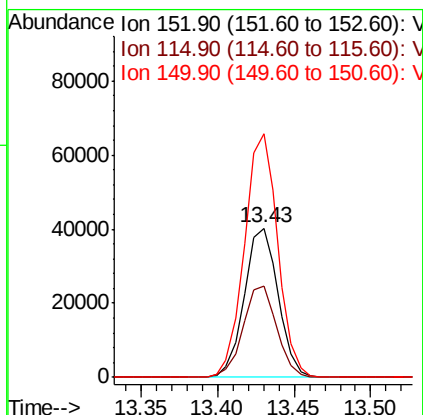
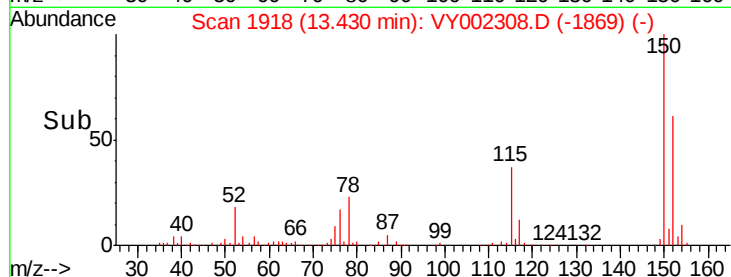
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.00 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:152 Resp: 62003
Ion Ratio Lower Upper
152 100
115 60.6 30.7 92.1
150 159.9 0.0 350.6



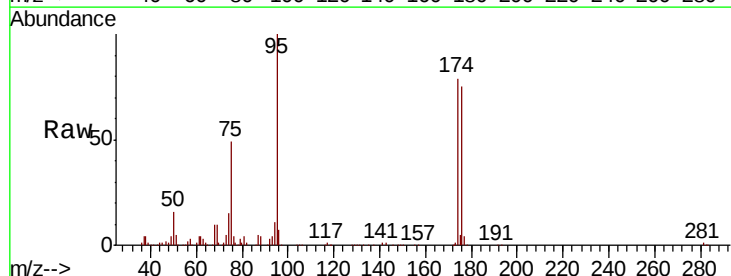
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



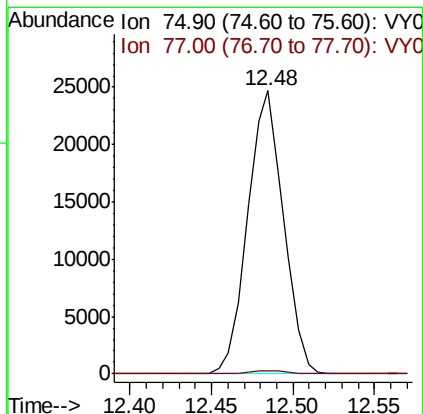
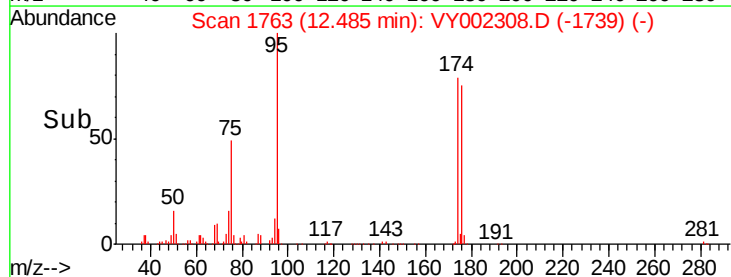
#76

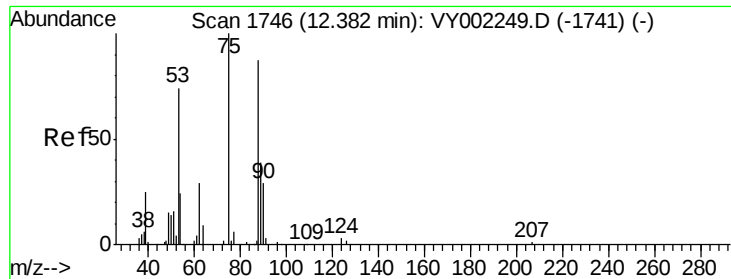
1,2,3-Trichloropropane
Concen: 52.181 ug/l
RT: 12.48 min Scan# 1763
Delta R.T. -0.15 min
Lab File: VY002308.D
Acq: 14 Apr 2020 15:04

Tgt Ion: 75 Resp: 37570
Ion Ratio Lower Upper
75 100
77 1.3 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: 101.492 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY002308.D

Acq: 14 Apr 2020 15:04

Instrument :

MSVOA_Y

ClientSampleId :

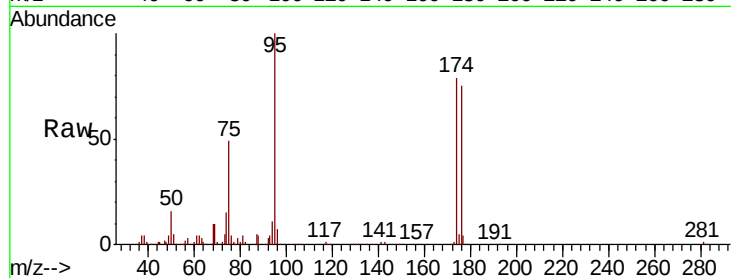
Tot Ion: 75 Resp: 37570

Ion Ratio Lower Upper

75 100

53 0.0 59.8 89.8#

89 0.0 37.0 55.6#



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

