

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY040620\
 Data File : VY002236.D
 Acq On : 06 Apr 2020 14:54
 Operator : SY/MD
 Sample : L2169-01
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Apr 07 04:25:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y032620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 07:11:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	94258	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.70	114	171155	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	116920	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	22573	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	50366	48.34	ug/l	-0.01
Spiked Amount						
			Recovery	=		96.68%
35) Dibromofluoromethane	7.73	113	46898	48.90	ug/l	0.00
Spiked Amount						
			Recovery	=		97.80%
50) Toluene-d8	10.18	98	200949	50.44	ug/l	0.00
Spiked Amount						
			Recovery	=		100.88%
62) 4-Bromofluorobenzene	12.49	95	34929	25.07	ug/l	0.00
Spiked Amount						
			Recovery	=		50.14%

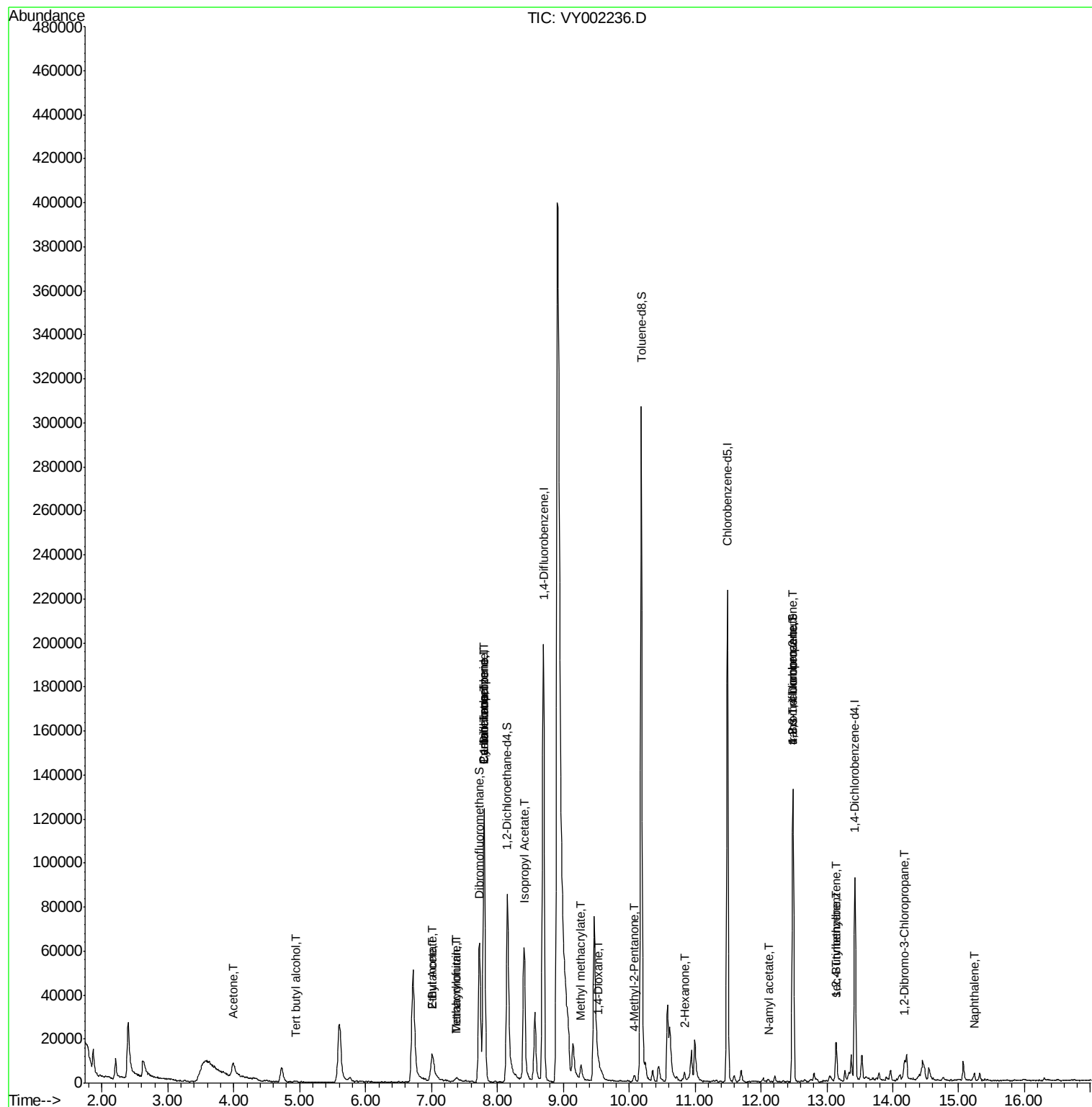
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	21	Below Cal	#	43
11) Tert butyl alcohol	4.94	59	338	2.753	ug/l #	74
16) Acetone	3.99	43	14257	48.701	ug/l #	88
20) Methylene Chloride	4.73	84	4931	Below Cal		90
25) 2-Butanone	7.00	43	2490	5.539	ug/l #	68
29) Tetrahydrofuran	7.37	42	1408	4.777	ug/l #	45
31) Cyclohexane	7.80	56	2178	1.003	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	8154	5.037	ug/l #	50
37) Ethyl Acetate	7.00	43	2490	2.545	ug/l #	85
38) Carbon Tetrachloride	7.80	117	9336	6.797	ug/l #	16
41) Methacrylonitrile	7.38	41	546	1.103	ug/l #	100
43) Isopropyl Acetate	8.41	43	22422	12.349	ug/l #	52
48) Methyl methacrylate	9.27	41	2349	2.887	ug/l #	35
49) 1,4-Dioxane	9.54	88	50	5.811	ug/l #	21
51) 4-Methyl-2-Pentanone	10.08	43	2466	2.638	ug/l	96
59) 2-Hexanone	10.84	43	2860	4.342	ug/l	80
74) N-amyl acetate	12.11	43	956	1.810	ug/l #	44
76) 1,2,3-Trichloropropane	12.49	75	18251	72.281	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	18251	140.034	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.14	105	7160	5.195	ug/l #	31
85) sec-Butylbenzene	13.14	105	7160	4.192	ug/l #	57
92) 1,2-Dibromo-3-Chloropropan	14.18	75	123	2.131	ug/l #	2
95) Naphthalene	15.24	128	2533	2.562	ug/l	99

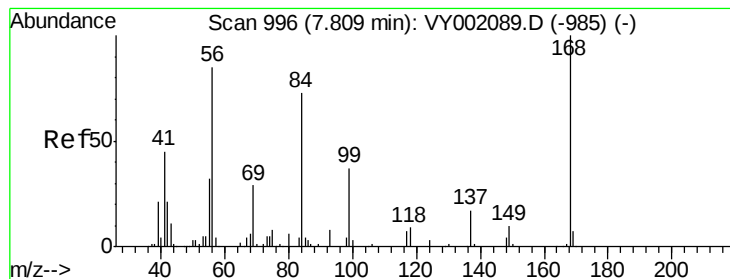
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y032620S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 07:11:05 2020
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: VY002236.D

Acq: 06 Apr 2020 14:54

Instrument :

MSVOA_Y

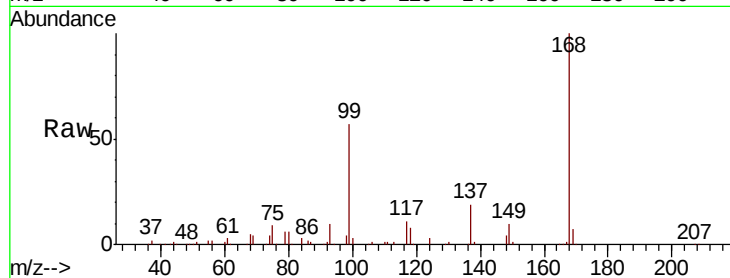
ClientSampled :

Tot Ion:168 Resp: 94258

Ion Ratio Lower Upper

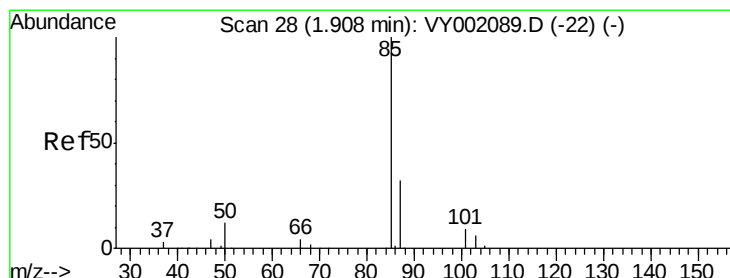
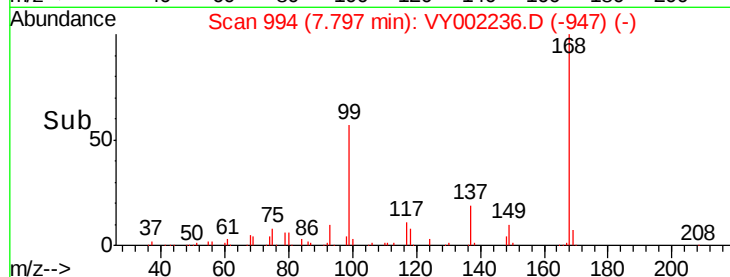
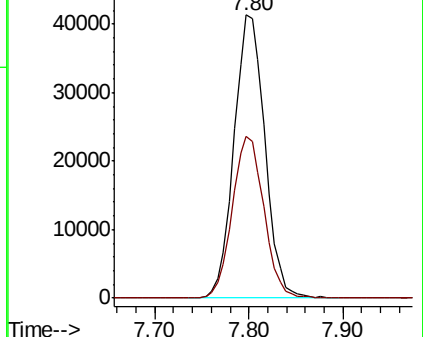
168 100

99 57.3 47.6 71.4



Abundance Ion 167.90 (167.60 to 168.60): VY002089.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002089.D (-985) (-)



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.91 min Scan# 28

Delta R.T. 0.00 min

Lab File: VY002236.D

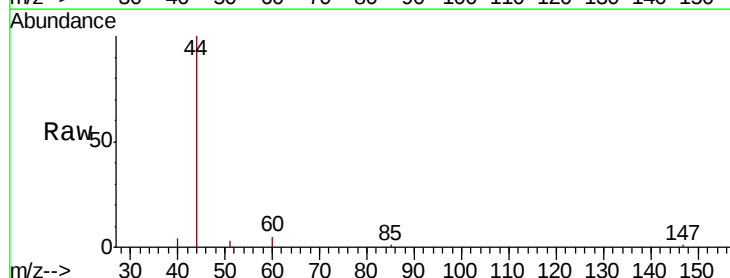
Acq: 06 Apr 2020 14:54

Tgt Ion: 85 Resp: 21

Ion Ratio Lower Upper

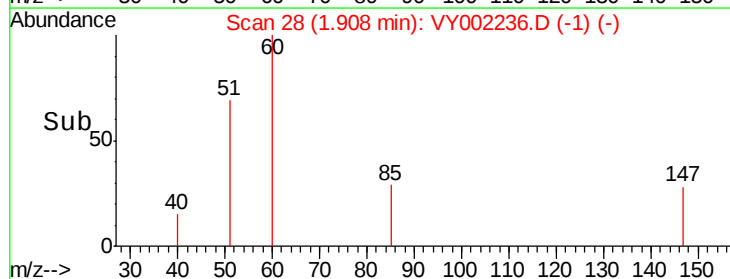
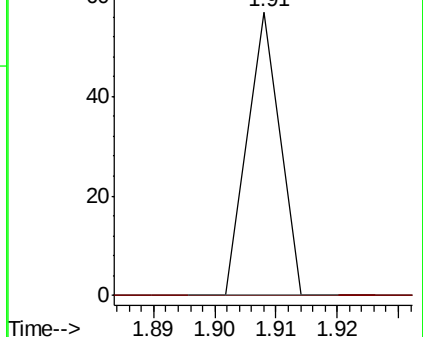
85 100

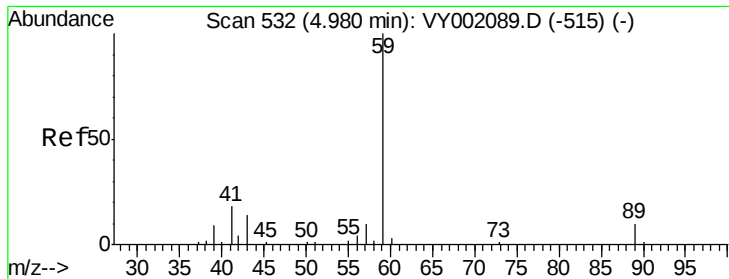
87 0.0 16.0 48.0#



Abundance Ion 84.90 (84.60 to 85.60): VY002089.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002089.D (-22) (-)

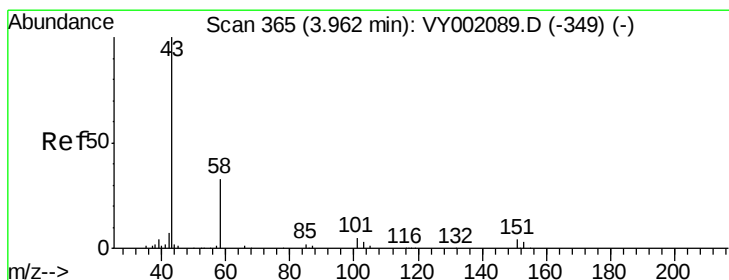
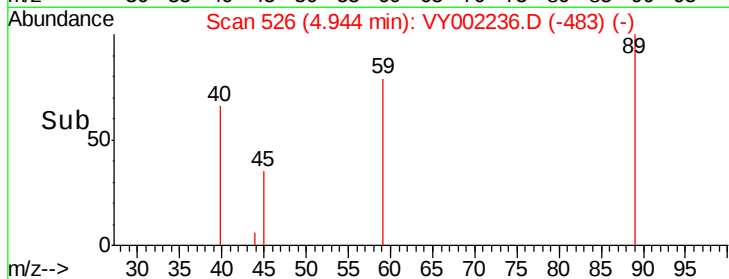
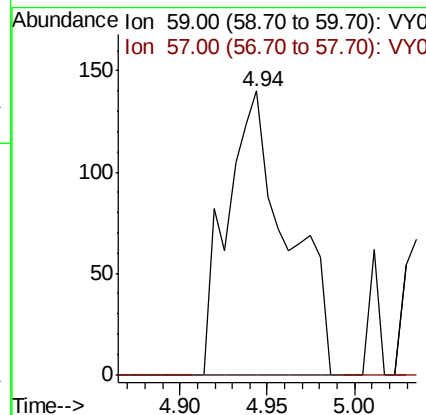
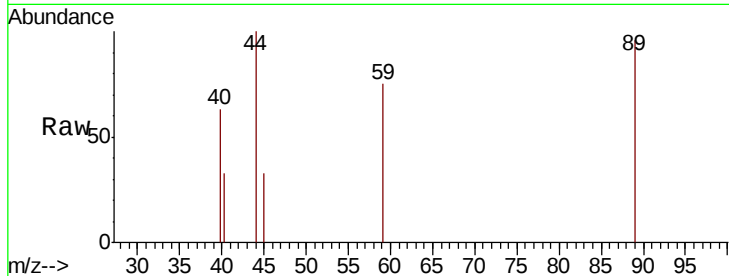




#11
Tert butyl alcohol
Concen: 2.753 ug/l
RT: 4.94 min Scan# 526
Delta R.T. -0.04 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

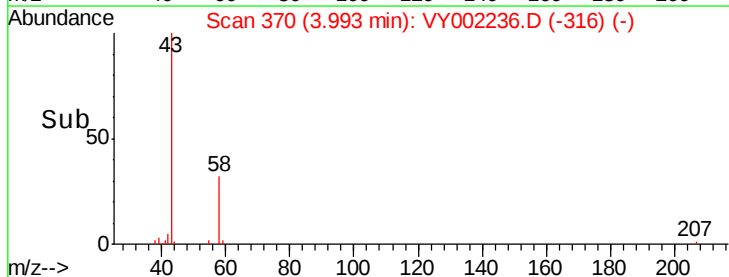
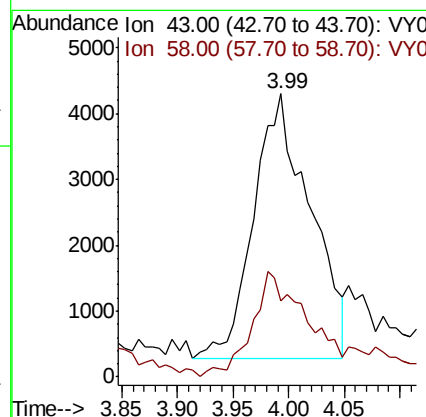
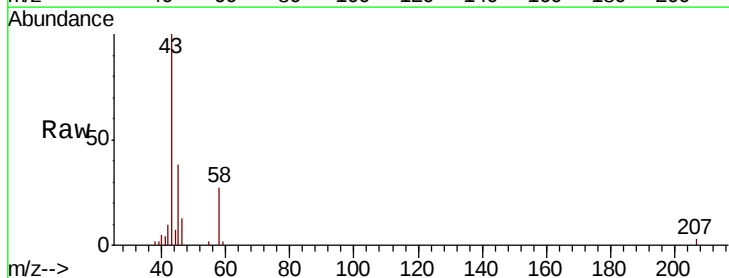
Instrument :
MSVOA_Y
ClientSampleId :

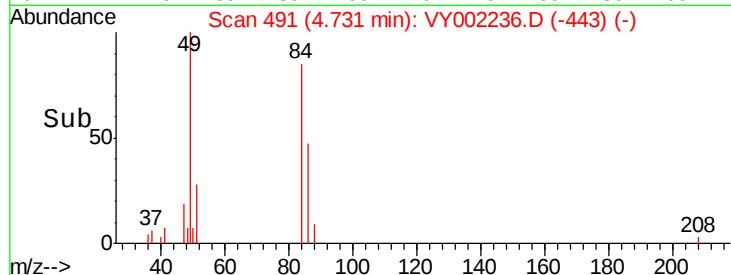
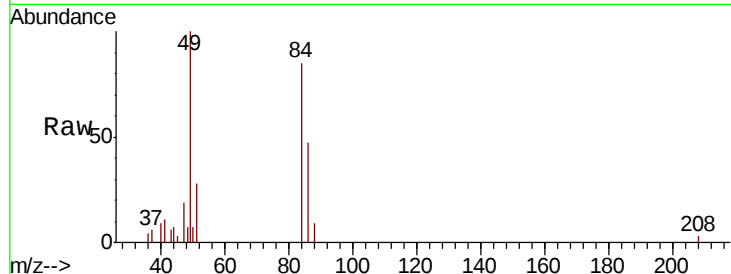
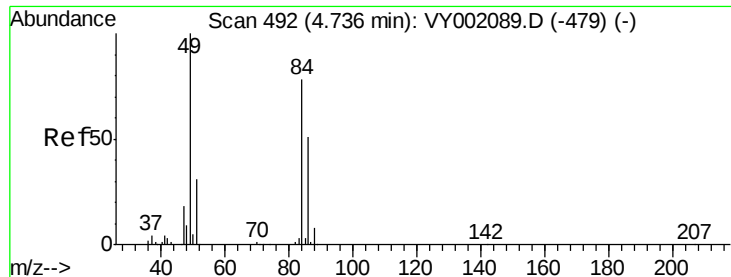
Tot Ion: 59 Resp: 338
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#



#16
Acetone
Concen: 48.701 ug/l
RT: 3.99 min Scan# 370
Delta R.T. 0.03 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Tgt Ion: 43 Resp: 14257
Ion Ratio Lower Upper
43 100
58 26.0 26.3 39.5#

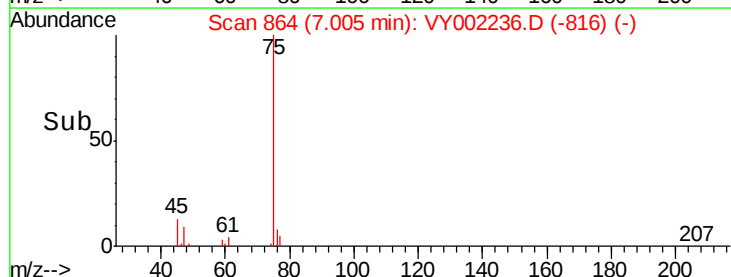
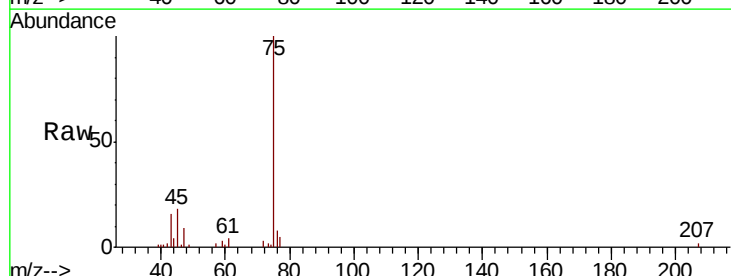
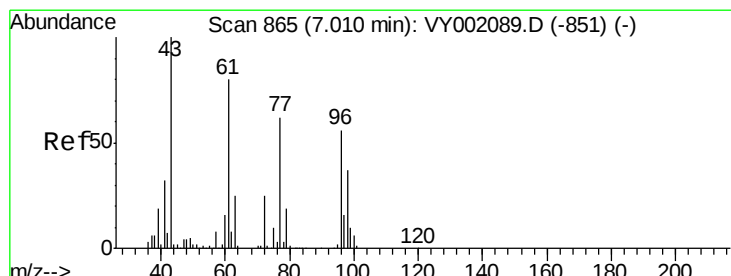
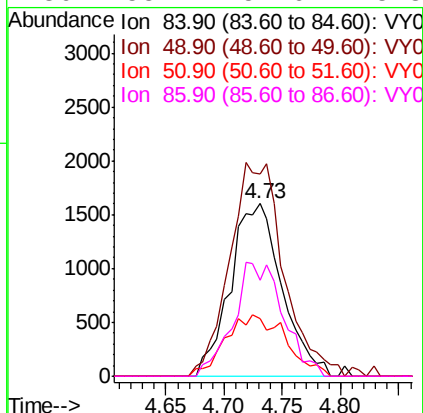




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.73 min Scan# 491
Delta R.T. -0.01 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

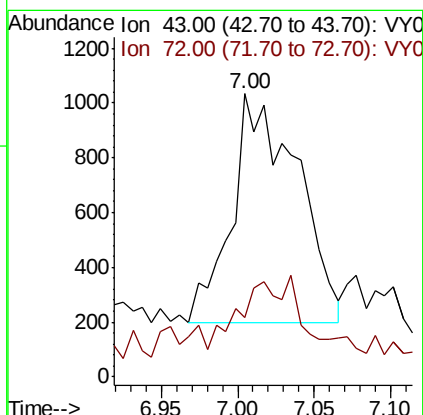
Instrument :
MSVOA_Y
ClientSampleId :

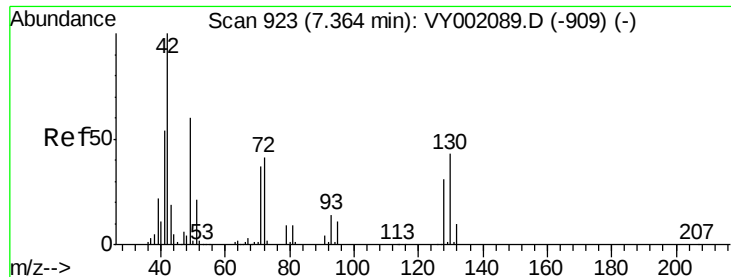
Tot Ion:	84	Resp:	4931
Ion	Ratio	Lower	Upper
84	100		
49	117.4	102.2	153.4
51	33.1	31.2	46.8
86	55.2	52.6	78.8



#25
2-Butanone
Concen: 5.539 ug/l
RT: 7.00 min Scan# 864
Delta R.T. -0.01 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Tgt Ion:	43	Resp:	2490
Ion	Ratio	Lower	Upper
43	100		
72	9.2	20.2	30.2#

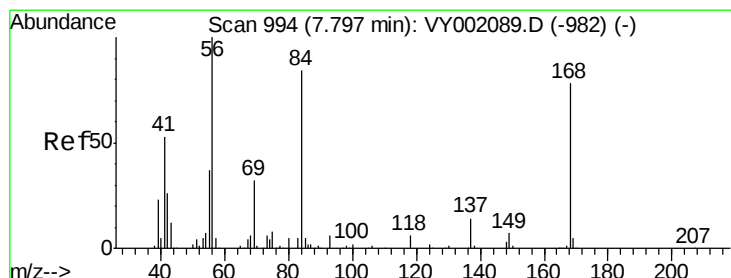
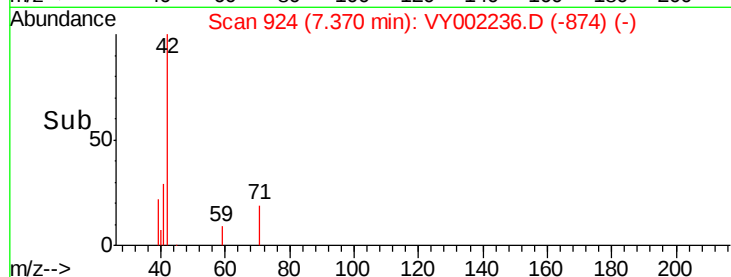
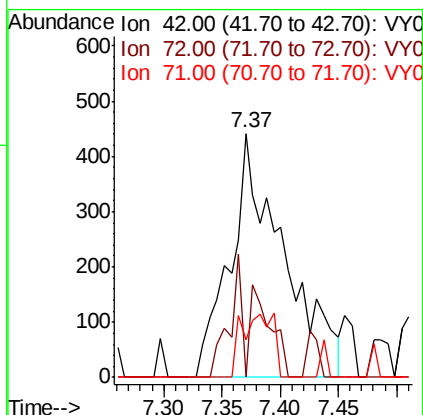
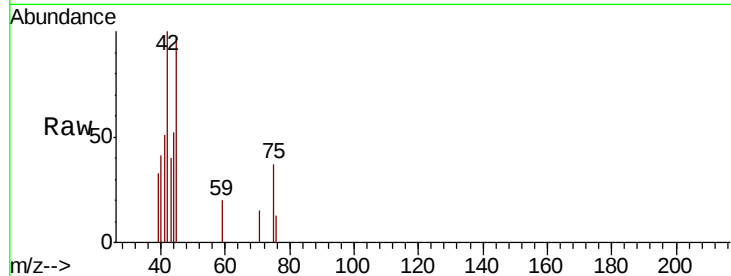




#29
Tetrahydrofuran
Concen: 4.777 ug/l
RT: 7.37 min Scan# 924
Delta R.T. 0.01 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

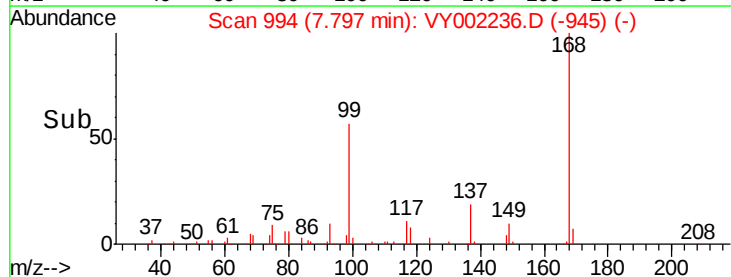
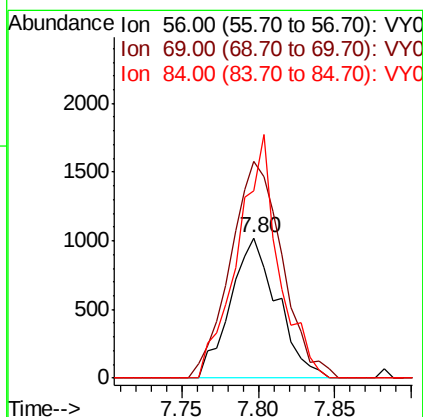
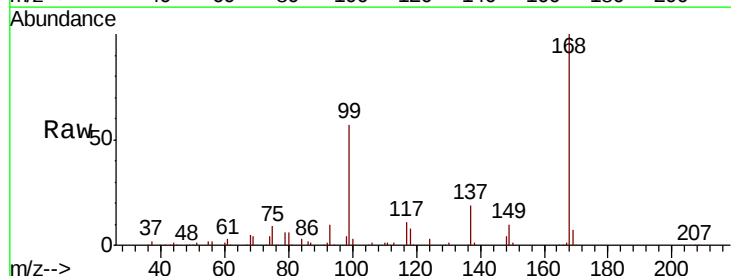
Instrument :
MSVOA_Y
ClientSampled :

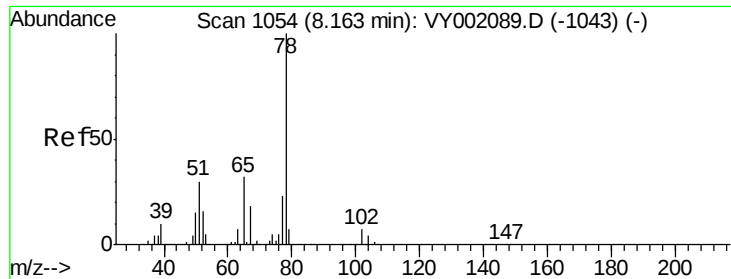
Tot Ion: 42 Resp: 1408
Ion Ratio Lower Upper
42 100
72 11.5 33.0 49.4#
71 0.0 31.2 46.8#



#31
Cyclohexane
Concen: 1.003 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.00 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Tgt Ion: 56 Resp: 2178
Ion Ratio Lower Upper
56 100
69 154.9 25.8 38.8#
84 133.5 67.1 100.7#





#33

1,2-Dichloroethane-d4

Concen: 48.336 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY002236.D

Acq: 06 Apr 2020 14:54

Instrument :

MSVOA_Y

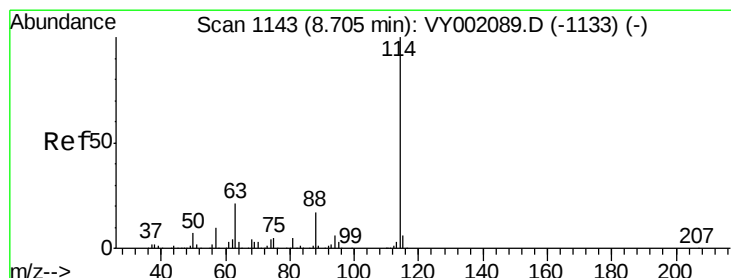
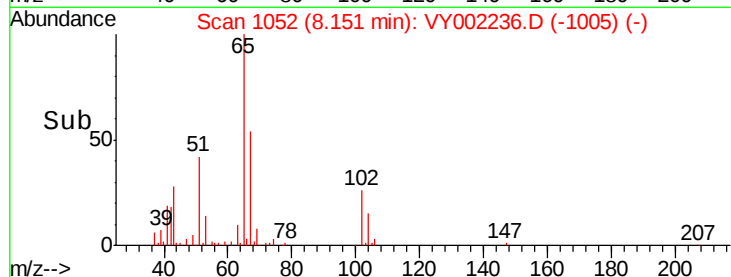
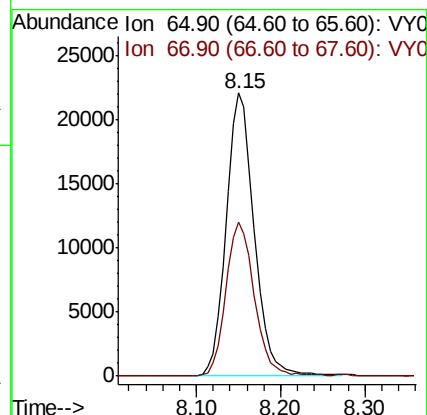
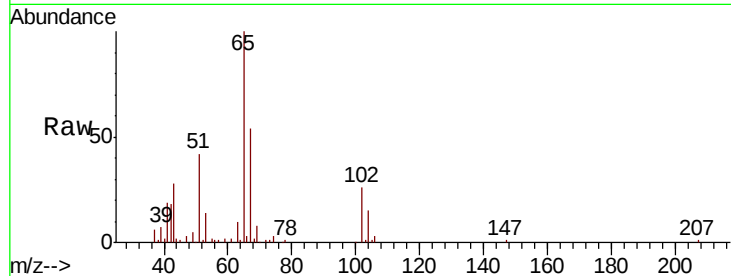
ClientSampleId :

Tot Ion: 65 Resp: 50366

Ion Ratio Lower Upper

65 100

67 55.3 0.0 112.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY002236.D

Acq: 06 Apr 2020 14:54

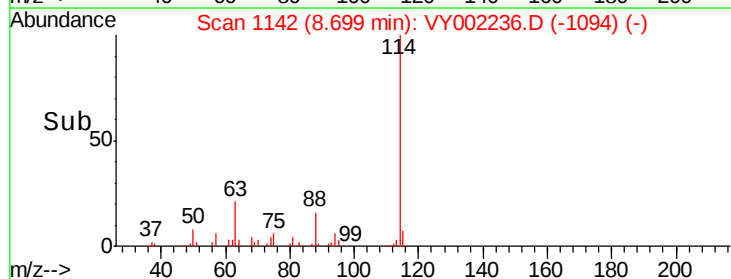
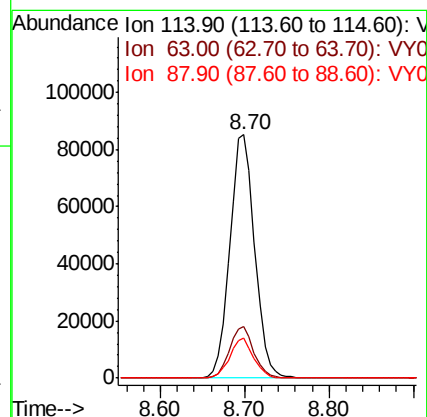
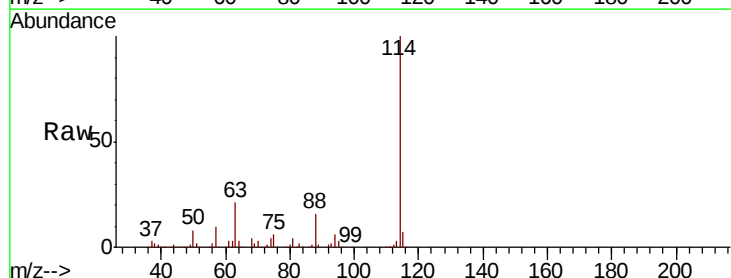
Tgt Ion: 114 Resp: 171155

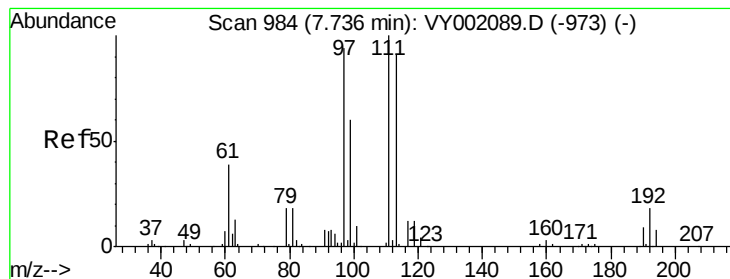
Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.4

88 16.3 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.903 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.01 min

Lab File: VY002236.D

Acq: 06 Apr 2020 14:54

Instrument :

MSVOA_Y

ClientSampled :

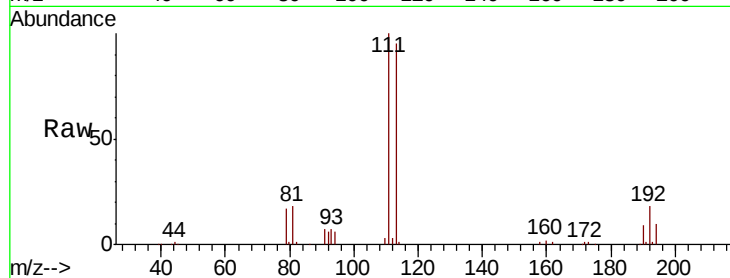
Tot Ion:113 Resp: 46898

Ion Ratio Lower Upper

113 100

111 104.0 84.4 126.6

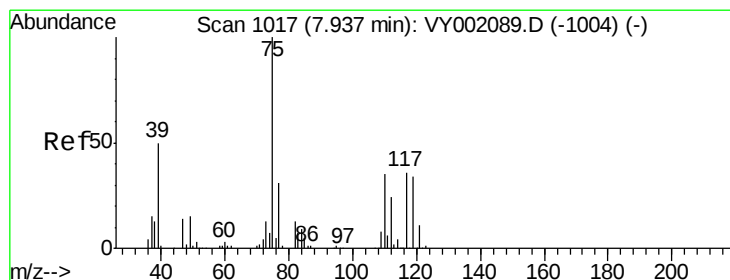
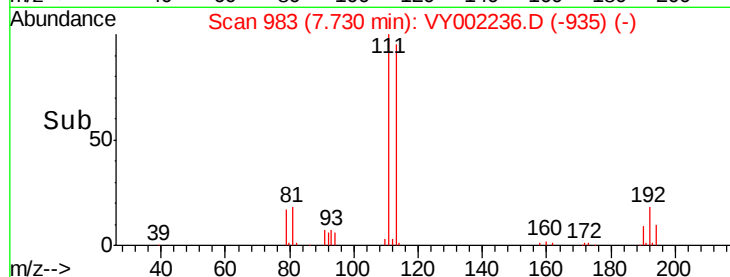
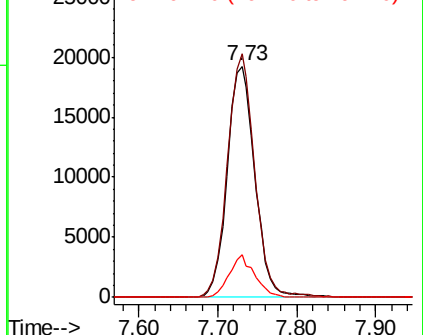
192 16.8 14.6 21.8



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: 5.037 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.14 min

Lab File: VY002236.D

Acq: 06 Apr 2020 14:54

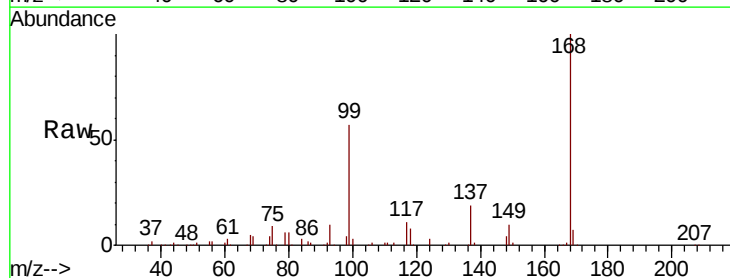
Tgt Ion: 75 Resp: 8154

Ion Ratio Lower Upper

75 100

110 9.4 17.2 51.6#

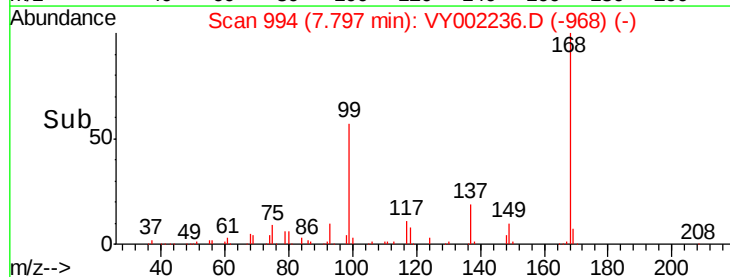
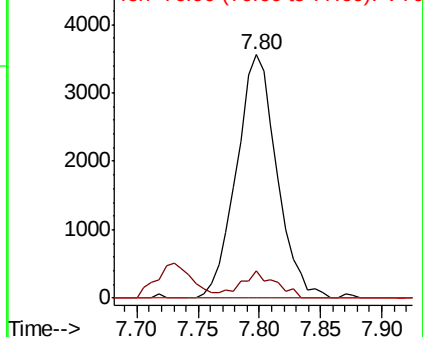
77 0.0 24.7 37.1#

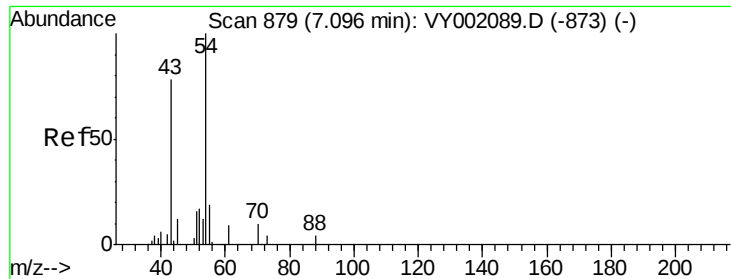


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

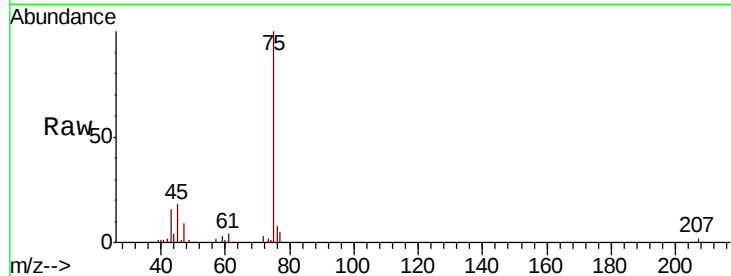




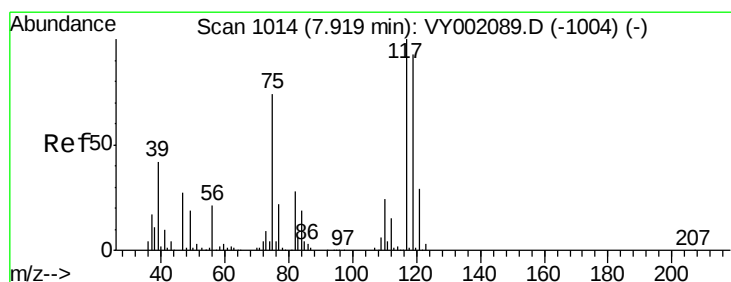
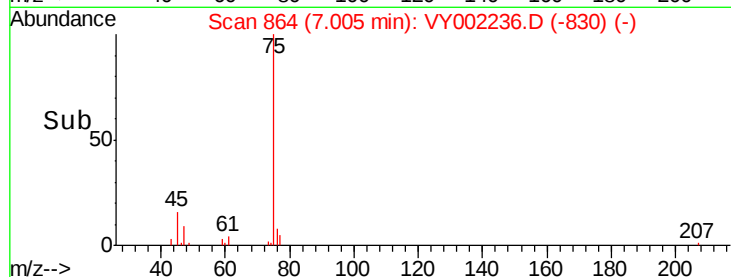
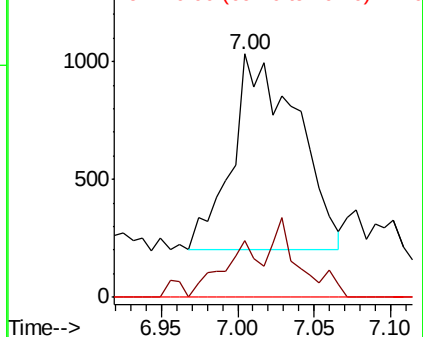
#37
Ethyl Acetate
Concen: 2.545 ug/l
RT: 7.00 min Scan# 864
Delta R.T. -0.09 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 43 Resp: 2490
Ion Ratio Lower Upper
43 100
61 16.2 11.2 16.8
70 0.0 8.2 12.4#

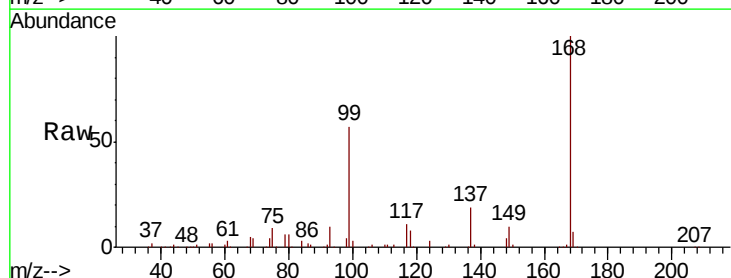


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

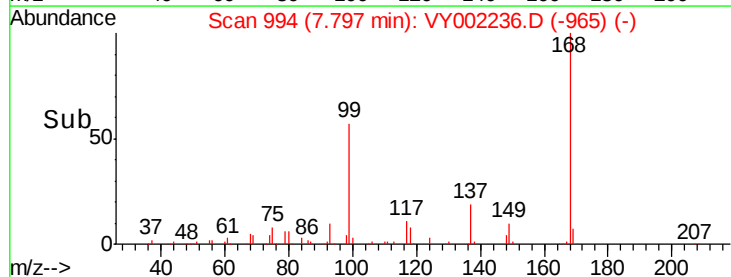
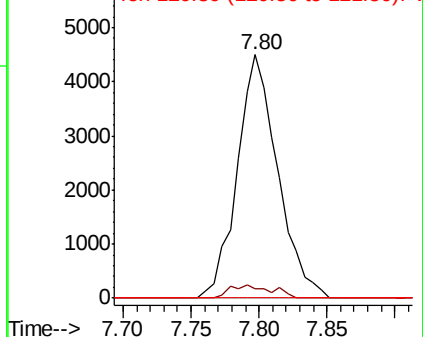


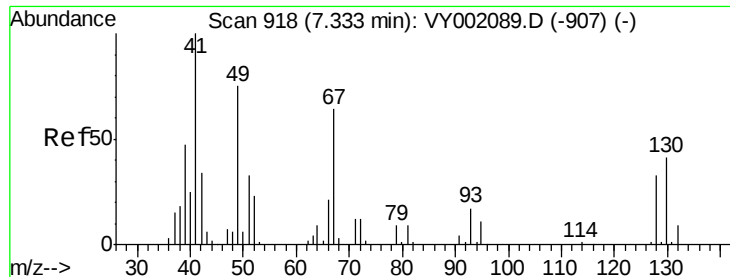
#38
Carbon Tetrachloride
Concen: 6.797 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.12 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Tgt Ion: 117 Resp: 9336
Ion Ratio Lower Upper
117 100
119 3.7 74.3 111.5#
121 0.0 23.3 34.9#



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

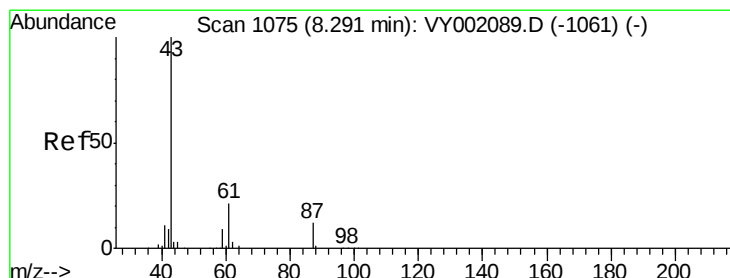
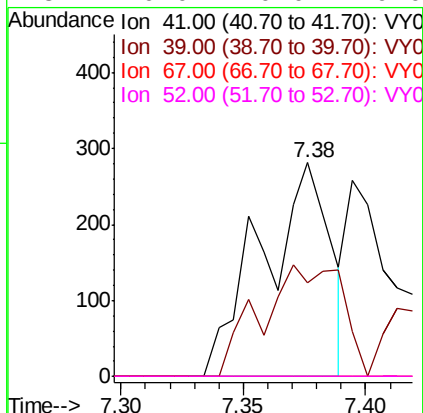
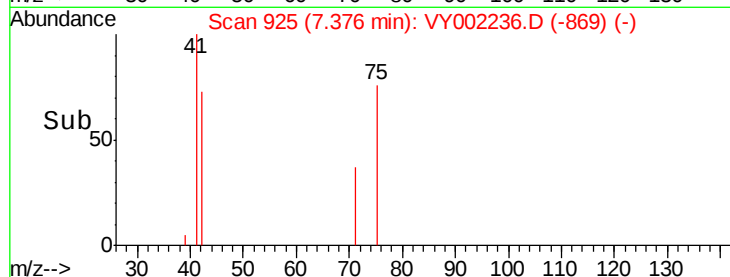
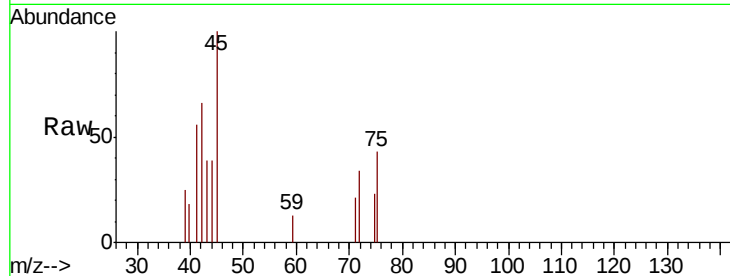




#41
Methacrylonitrile
Concen: 1.103 ug/l
RT: 7.38 min Scan# 925
Delta R.T. 0.04 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

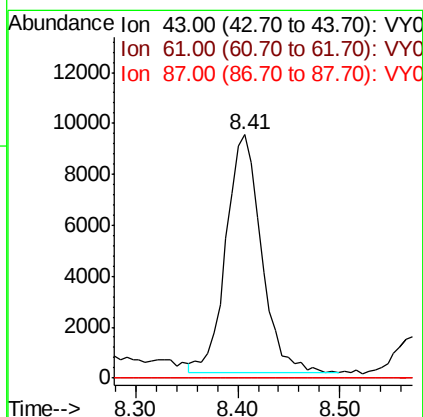
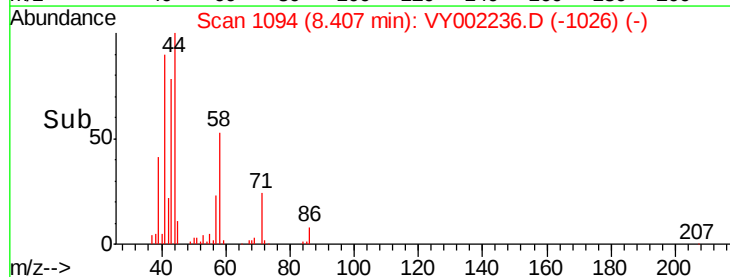
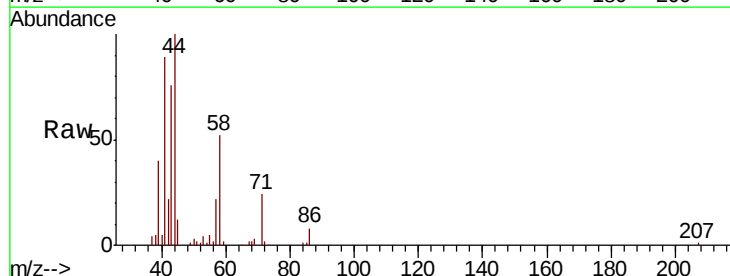
Instrument :
MSVOA_Y
ClientSampleId :

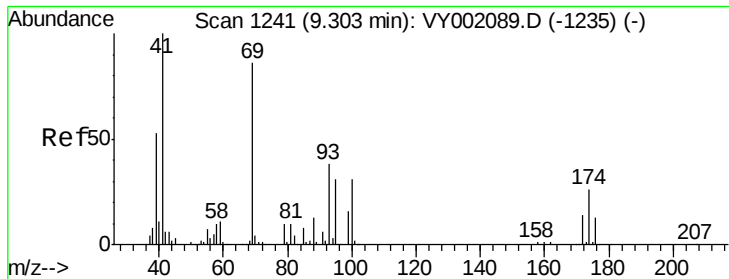
Tot Ion: 41 Resp: 546
Ion Ratio Lower Upper
41 100
39 62.1 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



#43
Isopropyl Acetate
Concen: 12.349 ug/l
RT: 8.41 min Scan# 1094
Delta R.T. 0.12 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Tgt Ion: 43 Resp: 22422
Ion Ratio Lower Upper
43 100
61 0.0 23.4 35.2#
87 0.0 10.2 15.4#

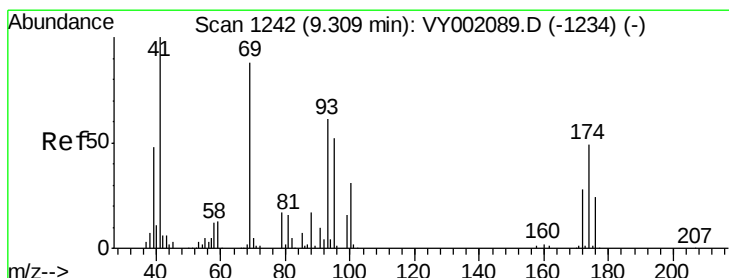
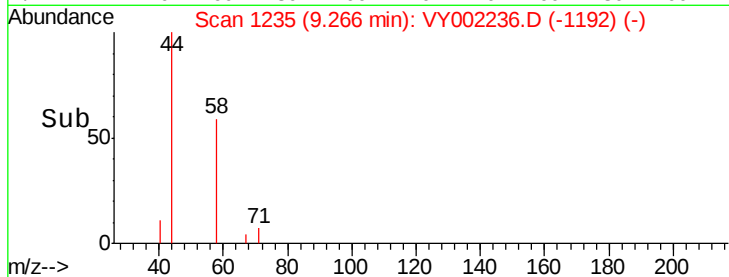
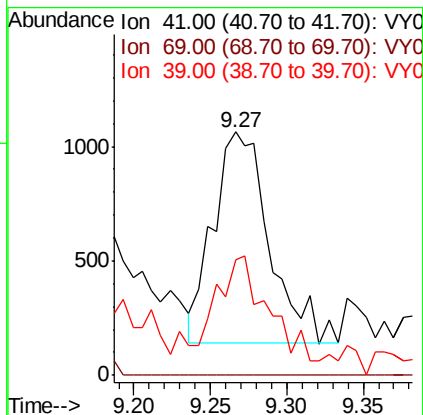
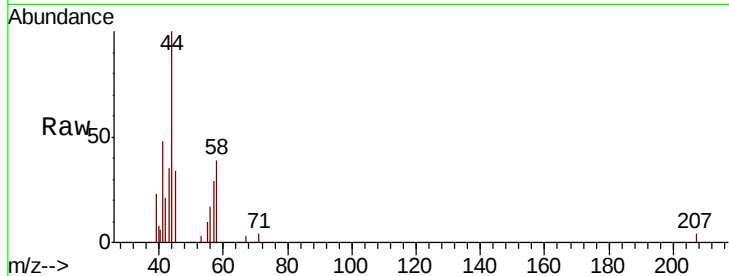




#48
Methyl methacrylate
Concen: 2.887 ug/l
RT: 9.27 min Scan# 1235
Delta R.T. -0.04 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

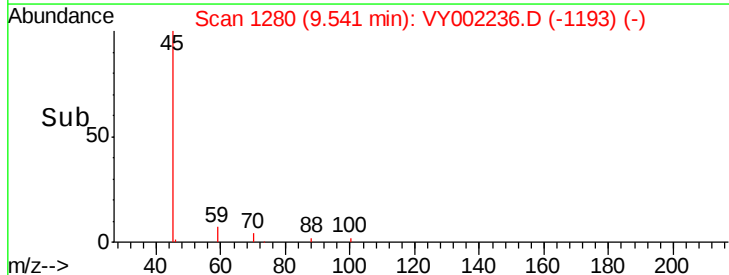
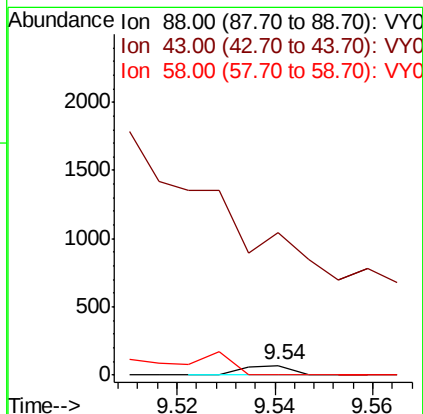
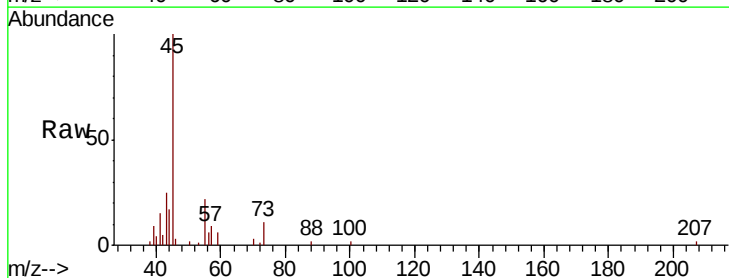
Instrument :
MSVOA_Y
ClientSampleId :

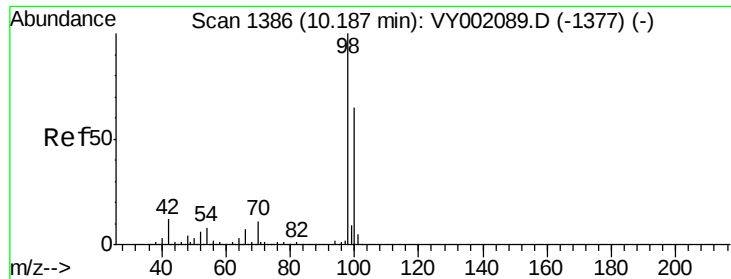
Tot Ion: 41 Resp: 2349
Ion Ratio Lower Upper
41 100
69 0.0 71.4 107.0#
39 43.3 41.0 61.4



#49
1,4-Dioxane
Concen: 5.811 ug/l
RT: 9.54 min Scan# 1280
Delta R.T. 0.23 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Tgt Ion: 88 Resp: 50
Ion Ratio Lower Upper
88 100
43 0.0 27.2 40.8#
58 0.0 59.8 89.8#





#50

Toluene-d8

Concen: 50.440 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY002236.D

Acq: 06 Apr 2020 14:54

Instrument :

MSVOA_Y

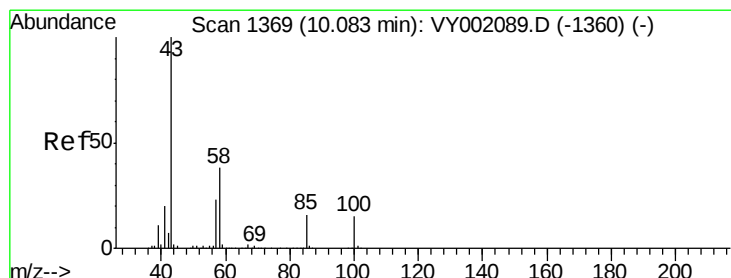
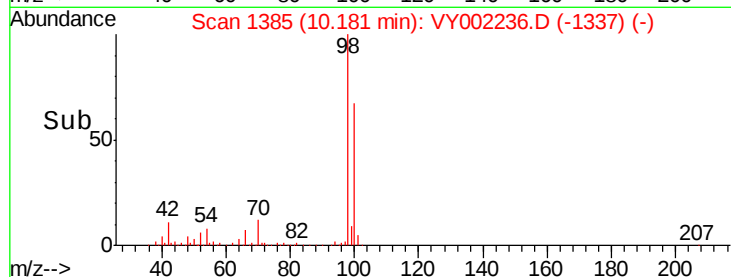
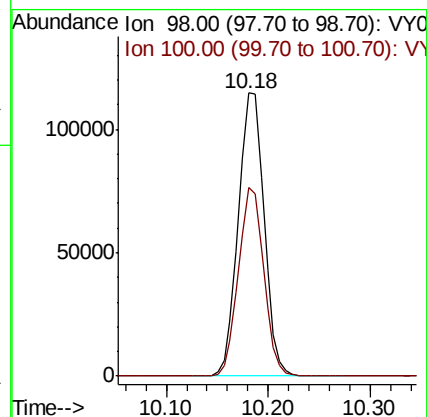
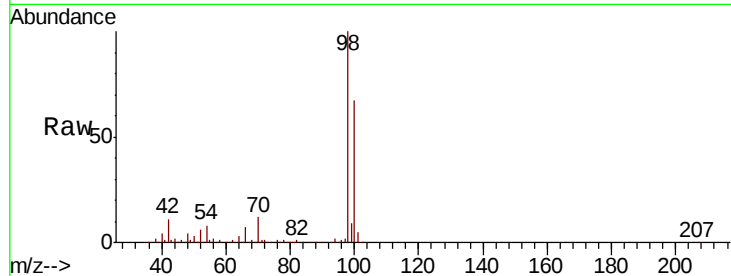
ClientSampleId :

Tot Ion: 98 Resp: 200949

Ion Ratio Lower Upper

98 100

100 65.2 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 2.638 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VY002236.D

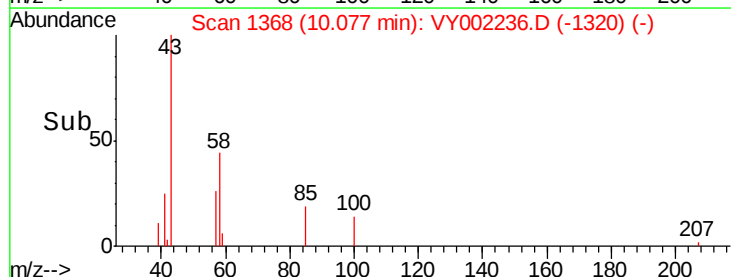
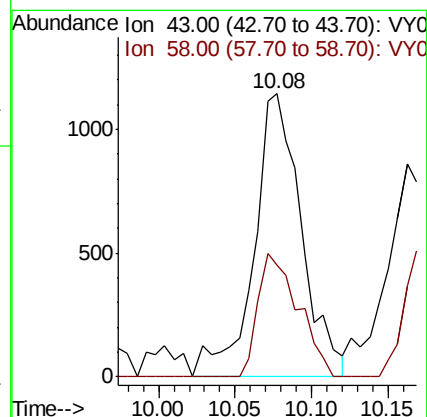
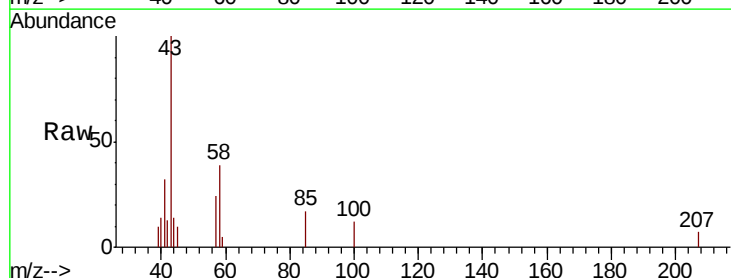
Acq: 06 Apr 2020 14:54

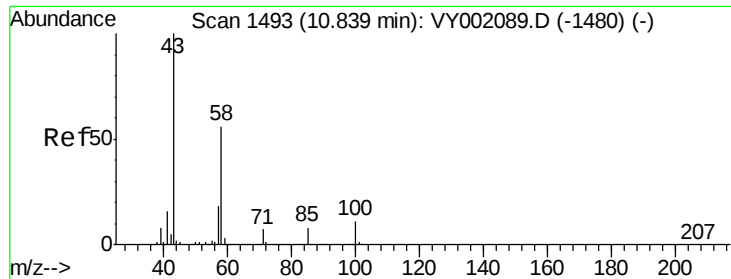
Tgt Ion: 43 Resp: 2466

Ion Ratio Lower Upper

43 100

58 37.1 31.6 47.4

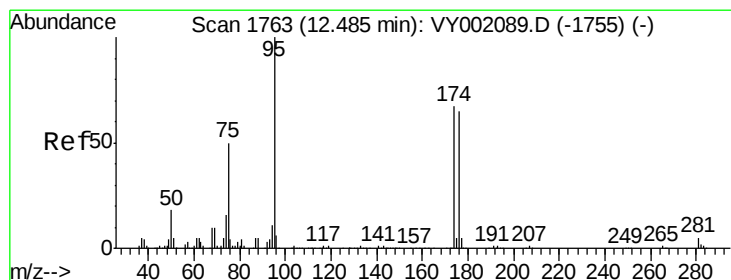
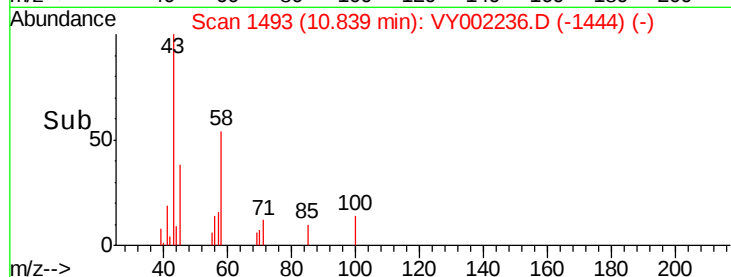
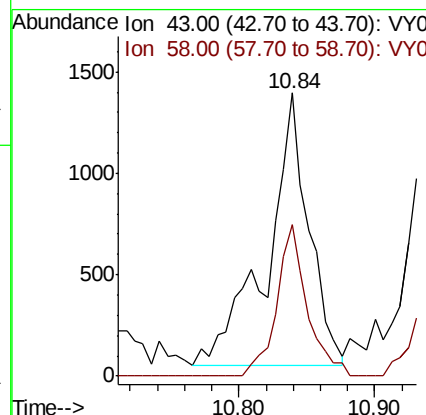
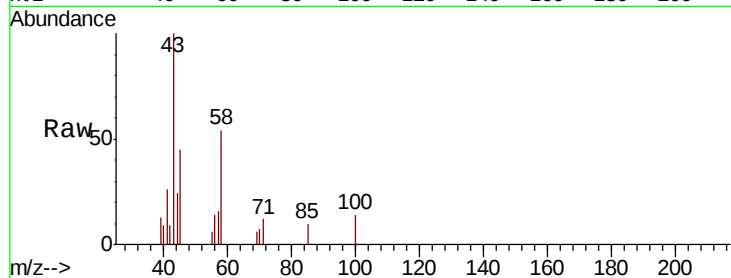




#59
2-Hexanone
Concen: 4.342 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

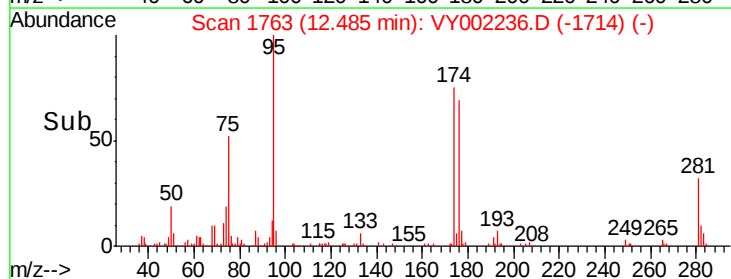
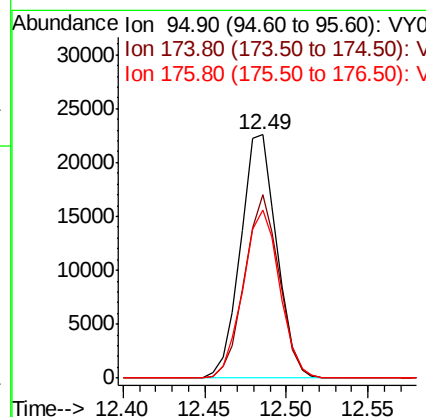
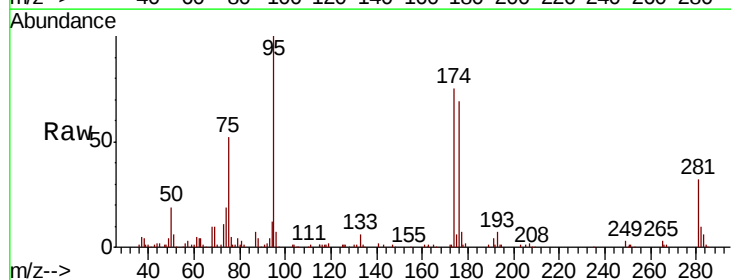
Instrument :
MSVOA_Y
ClientSampleId :

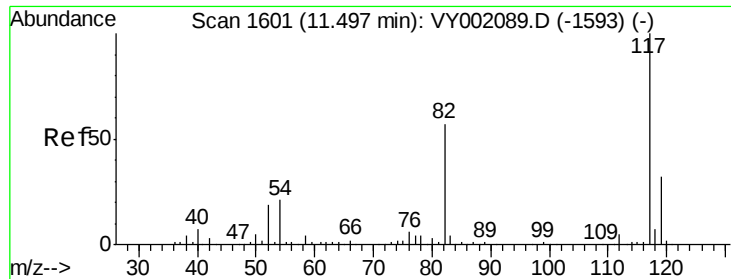
Tot Ion: 43 Resp: 2860
Ion Ratio Lower Upper
43 100
58 40.8 27.9 83.6



#62
4-Bromofluorobenzene
Concen: 25.069 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. 0.00 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Tgt Ion: 95 Resp: 34929
Ion Ratio Lower Upper
95 100
174 71.9 0.0 143.4
176 70.0 0.0 137.0

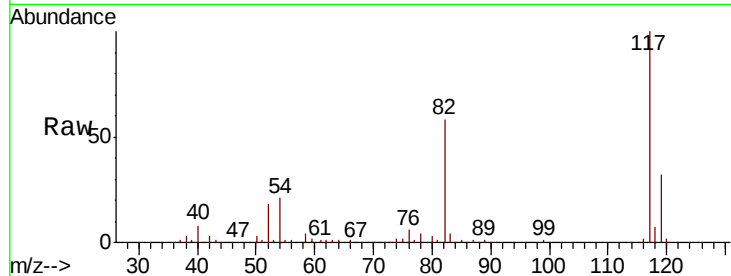




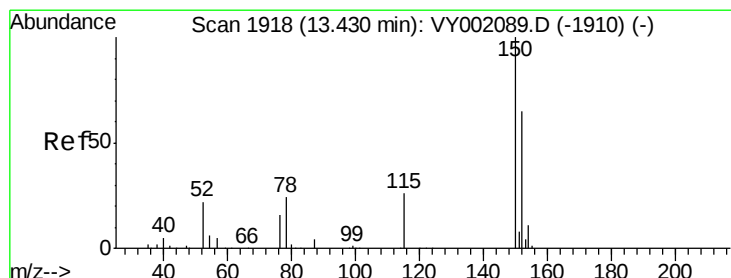
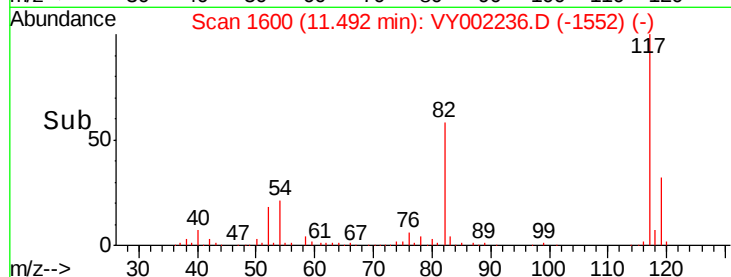
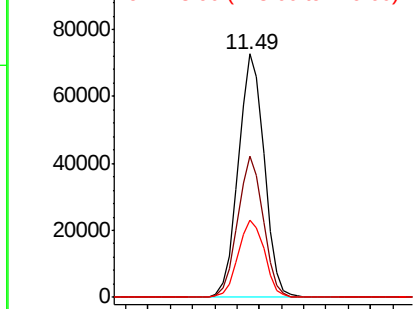
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 116920
Ion Ratio Lower Upper
117 100
82 58.1 45.4 68.2
119 31.8 25.3 37.9

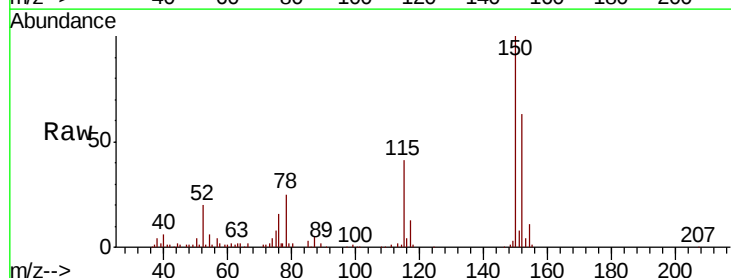


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

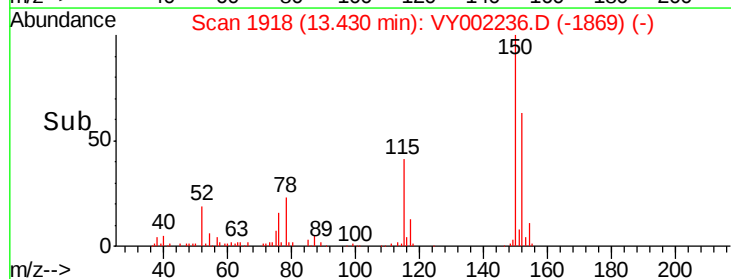
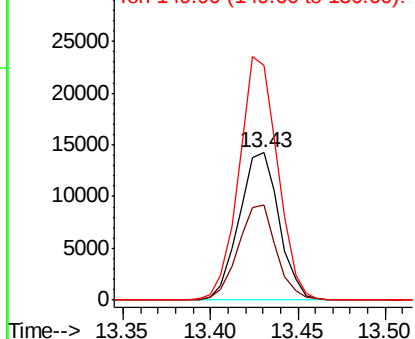


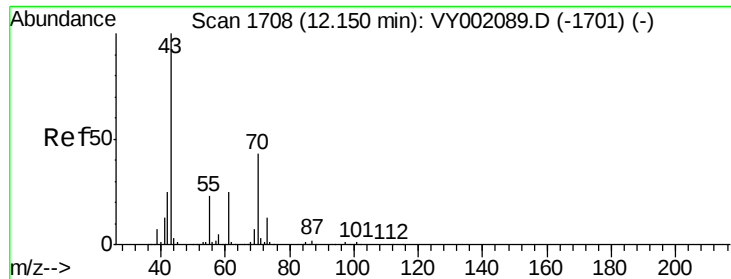
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. 0.00 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Tgt Ion:152 Resp: 22573
Ion Ratio Lower Upper
152 100
115 61.9 31.2 93.6
150 159.5 0.0 354.8



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-amvl acetate

Concen: 1.810 ug/l

RT: 12.11 min Scan# 1701

Delta R.T. -0.04 min

Lab File: VY002236.D

Acq: 06 Apr 2020 14:54

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 956

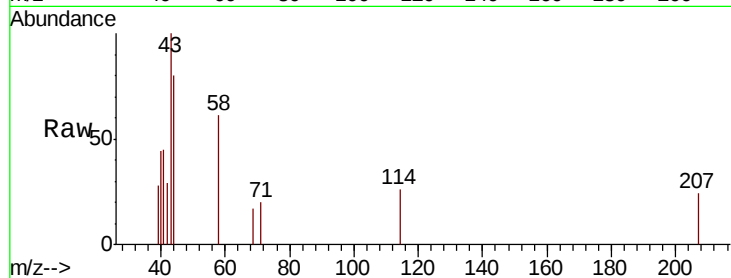
Ion Ratio Lower Upper

43 100

70 0.0 35.0 52.4#

55 4.6 18.7 28.1#

61 0.0 20.2 30.2#

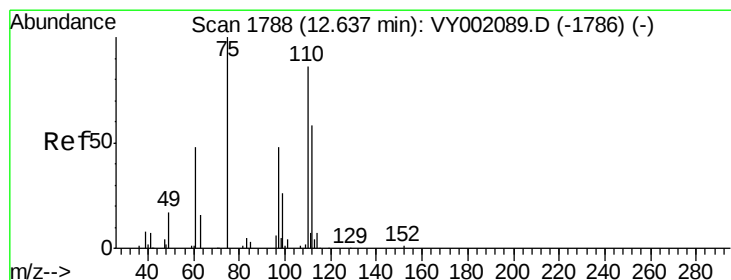
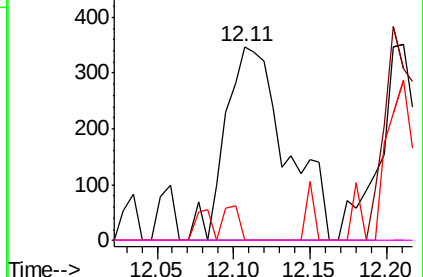
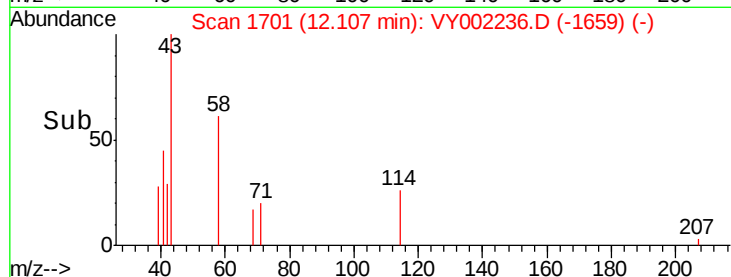


Abundance Ion 43.00 (42.70 to 43.70): VY0

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: 72.281 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY002236.D

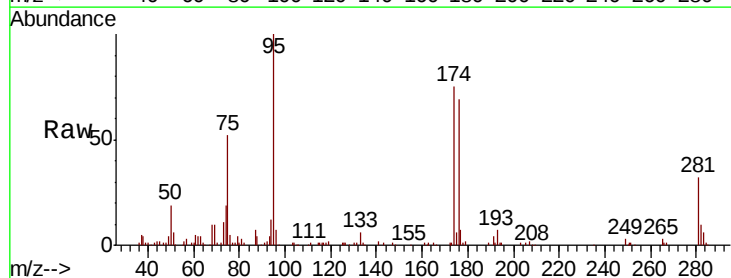
Acq: 06 Apr 2020 14:54

Tgt Ion: 75 Resp: 18251

Ion Ratio Lower Upper

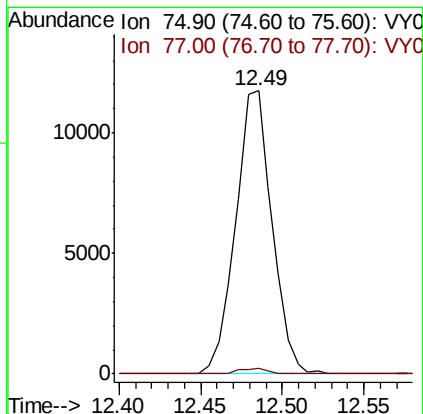
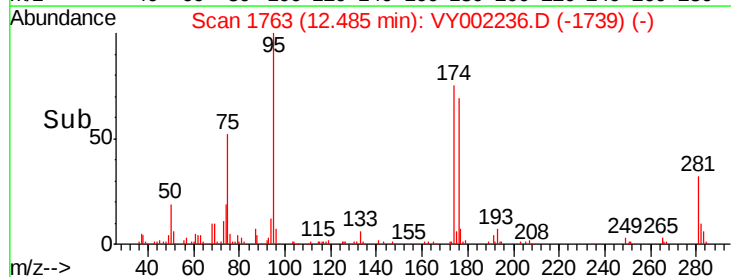
75 100

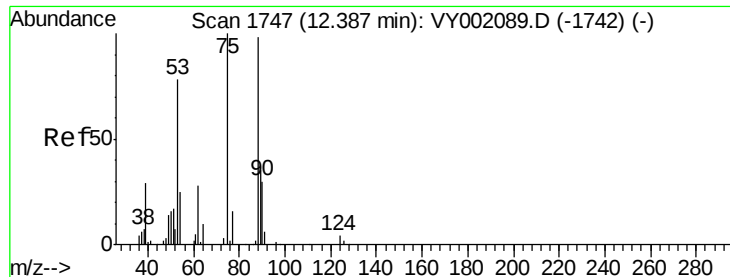
77 1.4 0.0 0.0#



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: 140.034 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY002236.D

Acq: 06 Apr 2020 14:54

Instrument :

MSVOA_Y

ClientSampleId :

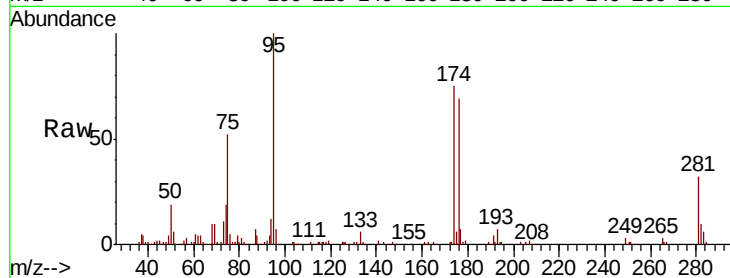
Tot Ion: 75 Resp: 18251

Ion Ratio Lower Upper

75 100

53 0.0 65.0 97.4#

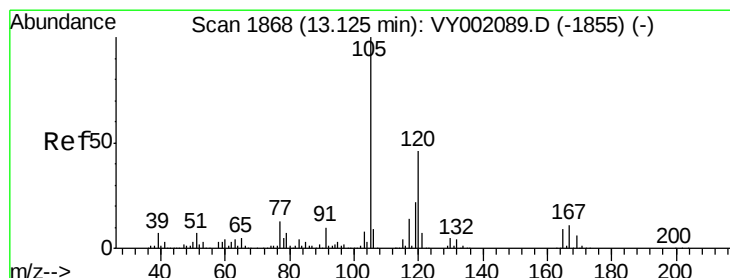
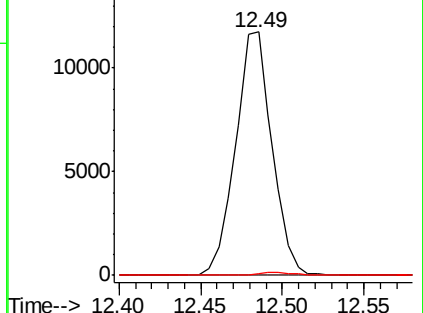
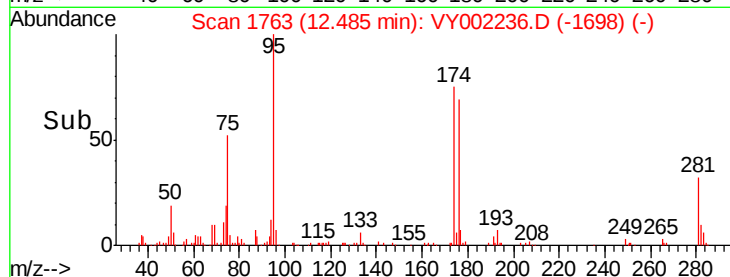
89 1.0 33.4 50.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 5.195 ug/l

RT: 13.14 min Scan# 1871

Delta R.T. 0.02 min

Lab File: VY002236.D

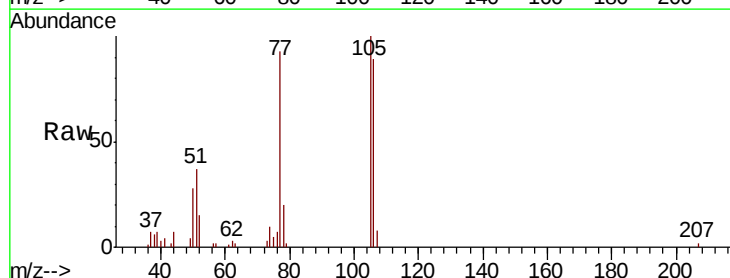
Acq: 06 Apr 2020 14:54

Tgt Ion:105 Resp: 7160

Ion Ratio Lower Upper

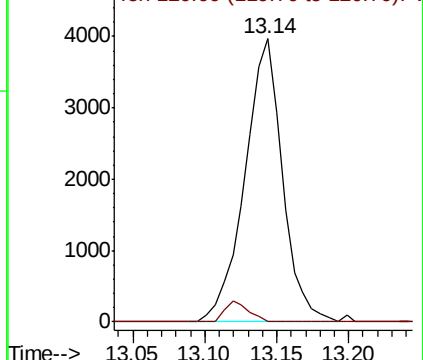
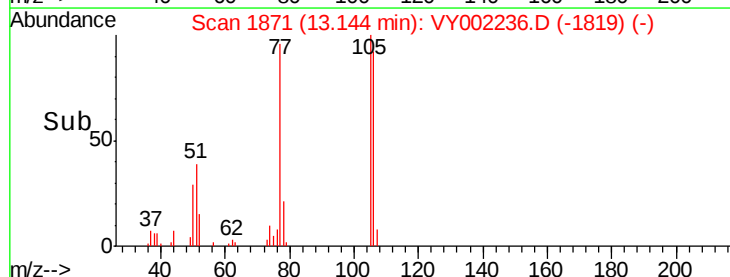
105 100

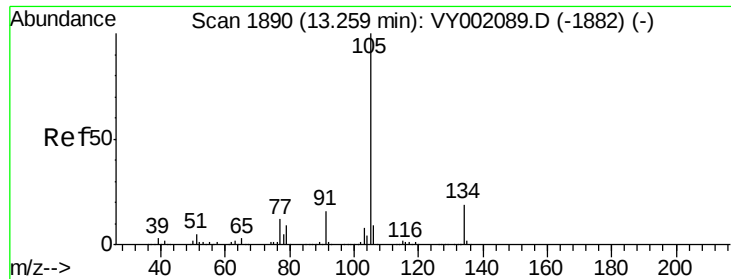
120 0.0 22.9 68.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

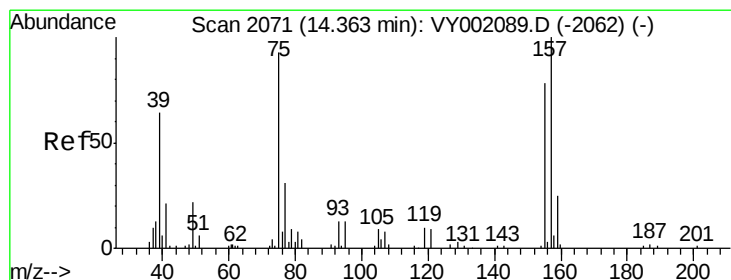
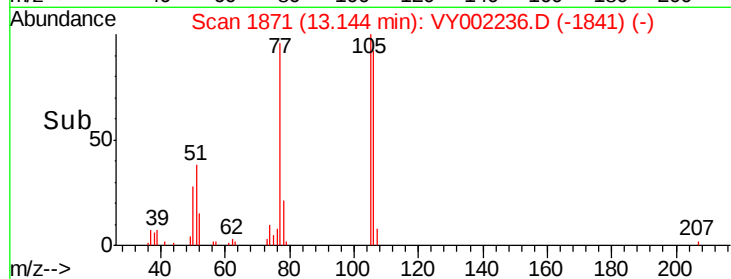
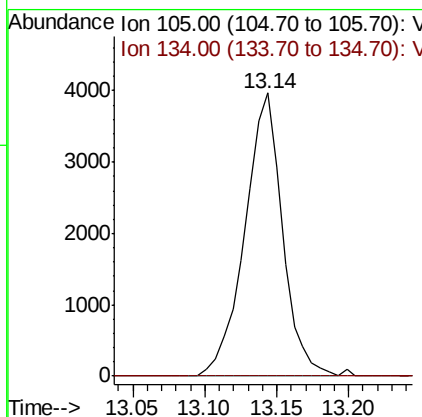
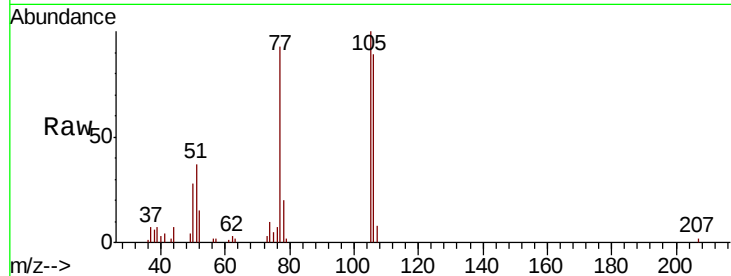




#85
 sec-Butylbenzene
 Concen: 4.192 ug/l
 RT: 13.14 min Scan# 1871
 Delta R.T. -0.12 min
 Lab File: VY002236.D
 Acq: 06 Apr 2020 14:54

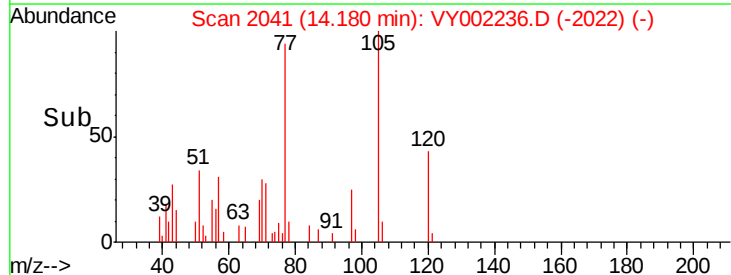
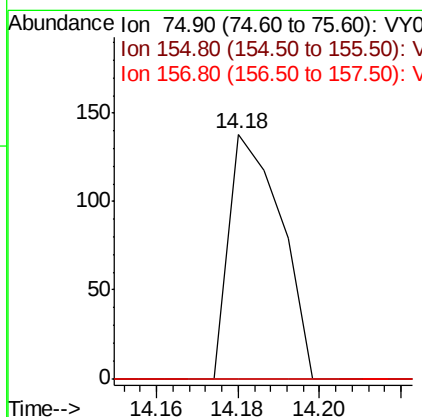
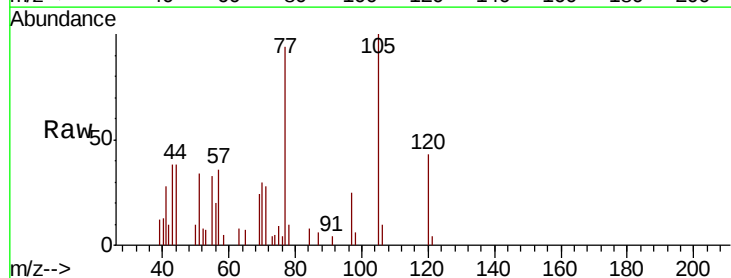
Instrument :
 MSVOA_Y
 ClientSampleId :

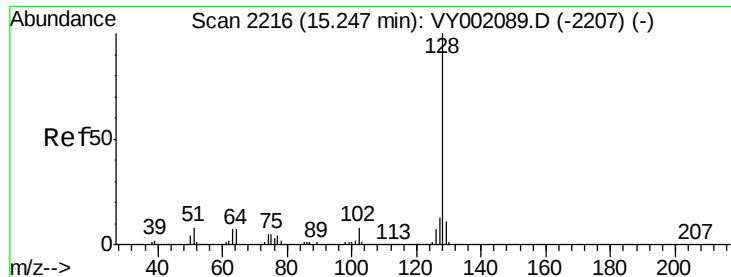
Tot Ion:105 Resp: 7160
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.7 29.1#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.131 ug/l
 RT: 14.18 min Scan# 2041
 Delta R.T. -0.18 min
 Lab File: VY002236.D
 Acq: 06 Apr 2020 14:54

Tgt Ion: 75 Resp: 123
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.6 124.9#
 157 0.0 53.4 160.3#

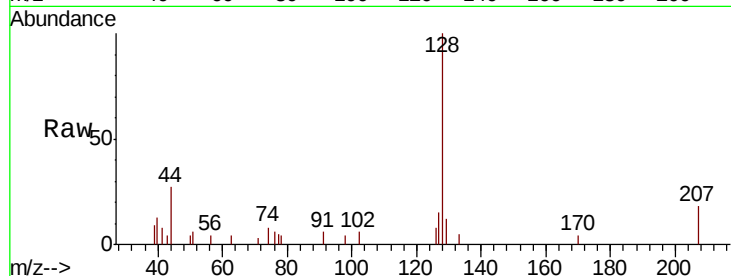




#95
Naphthalene
Concen: 2.562 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. -0.01 min
Lab File: VY002236.D
Acq: 06 Apr 2020 14:54

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.8	14.8
129	10.5	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

