

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY040120\
 Data File : VY002158.D
 Acq On : 01 Apr 2020 13:27
 Operator : SY/MD
 Sample : L2103-05
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Apr 02 06:22:07 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	7.82	168	114235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	223503	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	212139	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	96353	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	75785	60.01	ug/l	0.00
Spiked Amount			Recovery	=	120.02%	
35) Dibromofluoromethane	7.75	113	67326	53.76	ug/l	0.01
Spiked Amount			Recovery	=	107.52%	
50) Toluene-d8	10.19	98	275352	52.93	ug/l	0.00
Spiked Amount			Recovery	=	105.86%	
62) 4-Bromofluorobenzene	12.49	95	95438	52.45	ug/l	0.00
Spiked Amount			Recovery	=	104.90%	

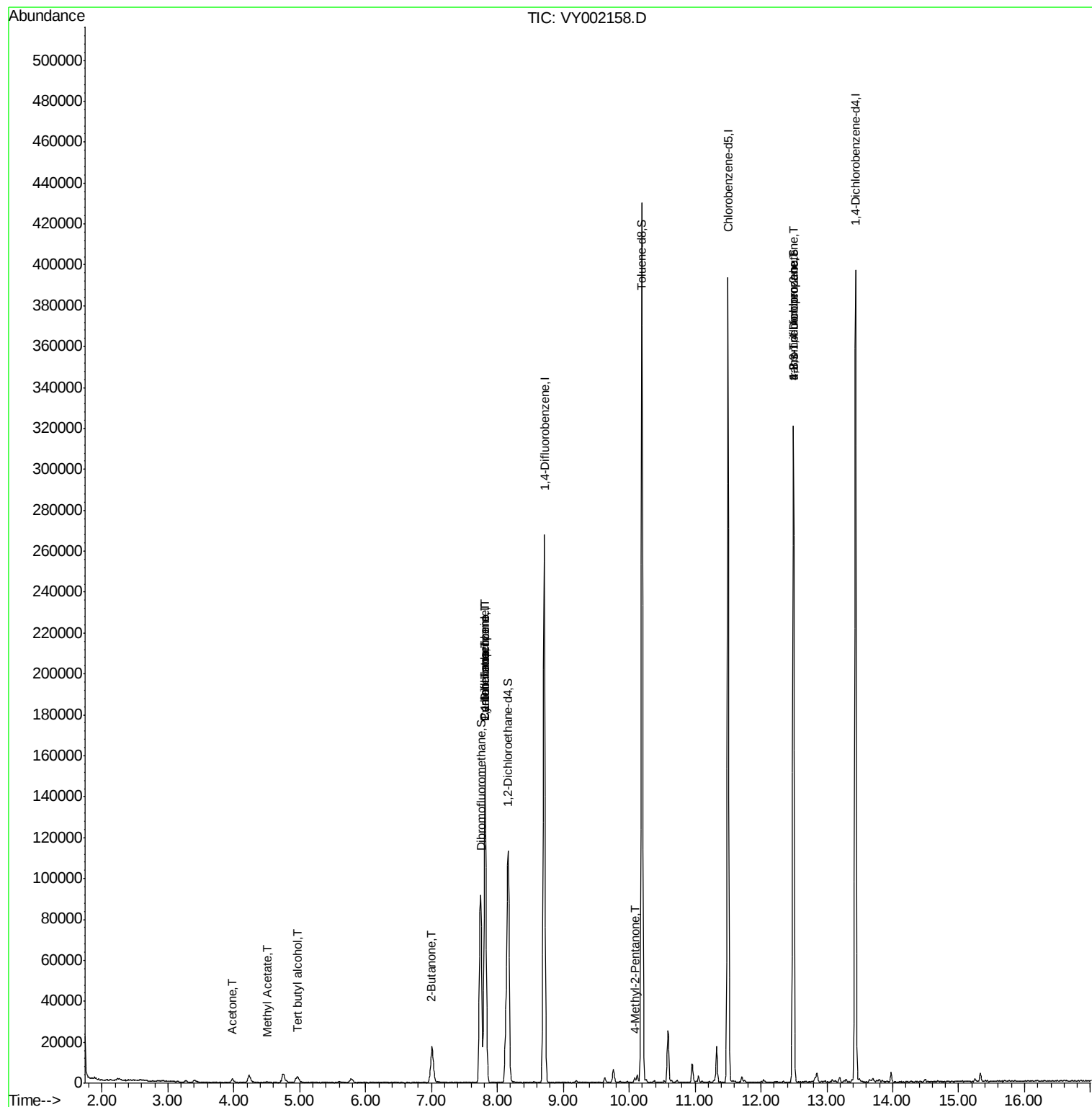
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	338	Below Cal	#	43
11) Tert butyl alcohol	4.96	59	3362	22.591	ug/l #	74
16) Acetone	3.98	43	2726	7.683	ug/l #	65
18) Methyl Acetate	4.51	43	972	1.055	ug/l #	62
20) Methylene Chloride	4.75	84	3092	Below Cal	#	95
25) 2-Butanone	7.01	43	786	1.443	ug/l #	80
31) Cyclohexane	7.81	56	2921	1.110	ug/l #	1
36) 1,1-Dichloropropene	7.81	75	10385	4.912	ug/l #	49
38) Carbon Tetrachloride	7.82	117	11832	6.597	ug/l #	17
51) 4-Methyl-2-Pentanone	10.09	43	1558	1.276	ug/l	97
76) 1,2,3-Trichloropropane	12.49	75	50255	46.628	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	50255	90.334	ug/l #	17

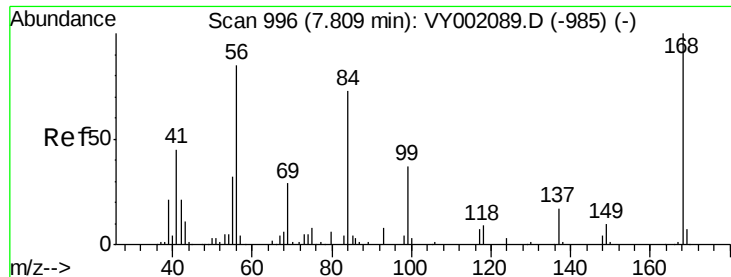
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002158.D

Acq: 01 Apr 2020 13:27

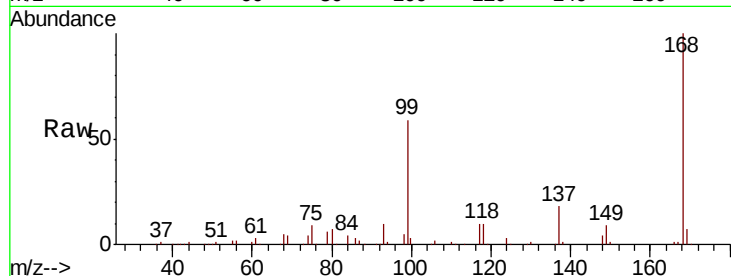
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 114235

Ion Ratio Lower Upper

168 100

99 59.3 47.6 71.4



Abundance Ion 167.90 (167.60 to 168.60): VY002158.D (-947) (-)

Ion 98.90 (98.60 to 99.60): VY002158.D (-947) (-)

7.82

60000

50000

40000

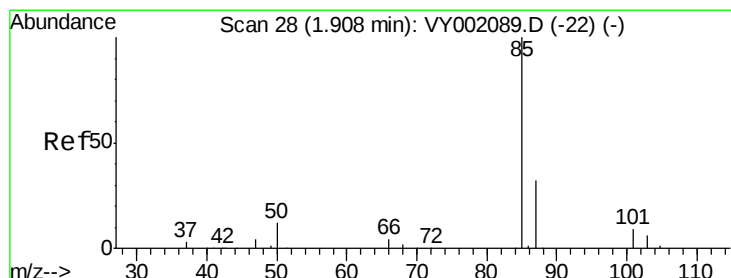
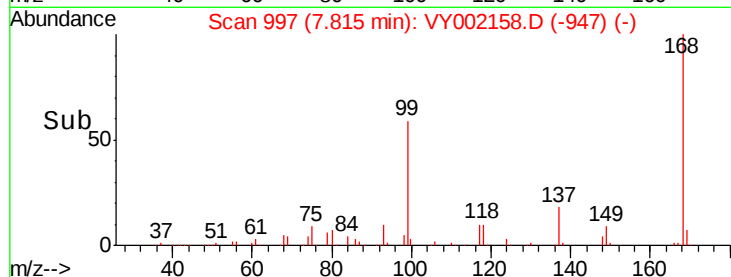
30000

20000

10000

0

Time--> 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.91 min Scan# 29

Delta R.T. 0.01 min

Lab File: VY002158.D

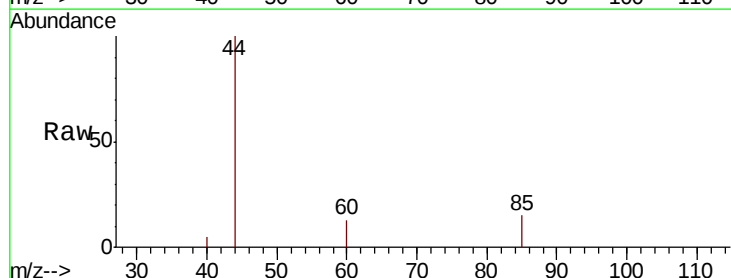
Acq: 01 Apr 2020 13:27

Tgt Ion: 85 Resp: 338

Ion Ratio Lower Upper

85 100

87 0.0 16.0 48.0#



Abundance Ion 84.90 (84.60 to 85.60): VY002158.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY002158.D (-1) (-)

1.91

300

250

200

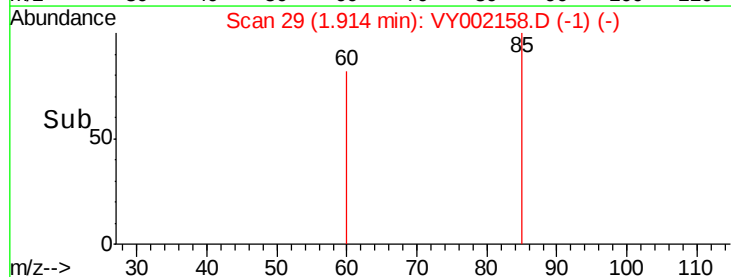
150

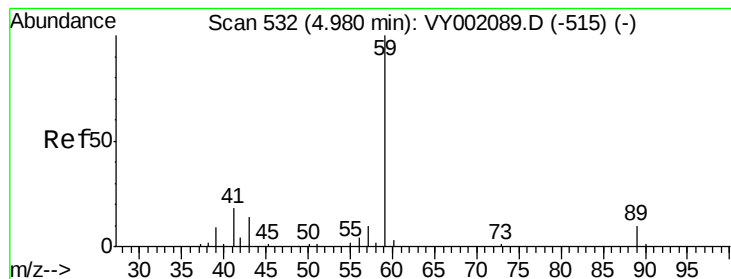
100

50

0

Time--> 1.88 1.90 1.92 1.94





#11

Tert butyl alcohol

Concen: 22.591 ug/l

RT: 4.96 min Scan# 529

Delta R.T. -0.02 min

Lab File: VY002158.D

Acq: 01 Apr 2020 13:27

Instrument :

MSVOA_Y

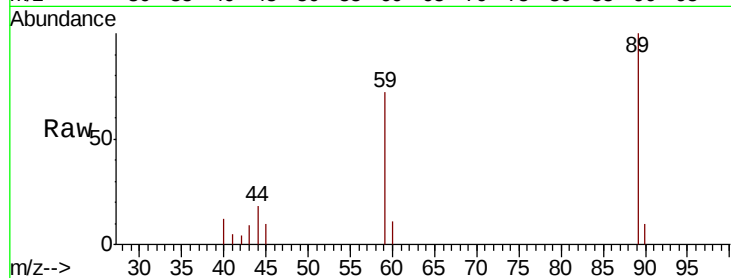
ClientSampleId :

Tot Ion: 59 Resp: 3362

Ion Ratio Lower Upper

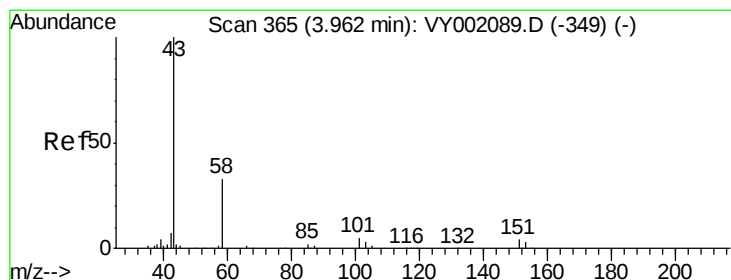
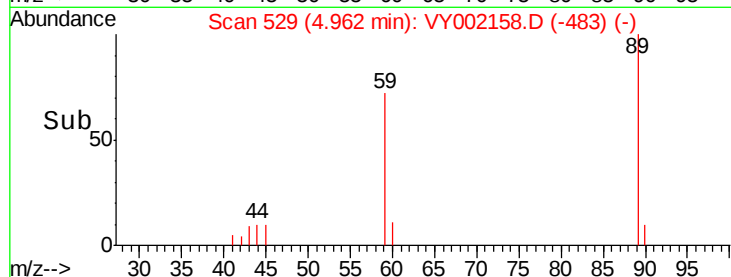
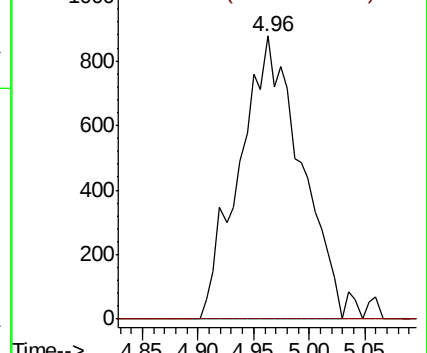
59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0



#16

Acetone

Concen: 7.683 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.02 min

Lab File: VY002158.D

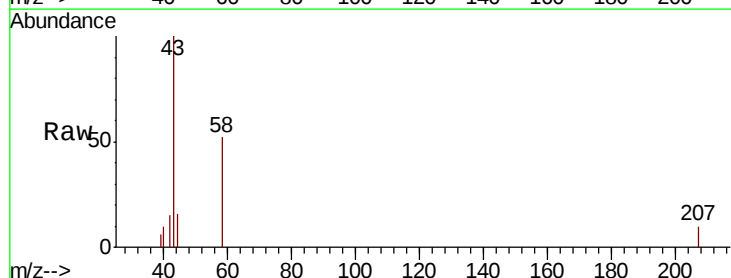
Acq: 01 Apr 2020 13:27

Tgt Ion: 43 Resp: 2726

Ion Ratio Lower Upper

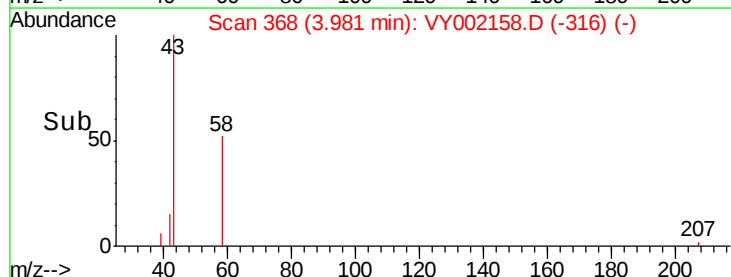
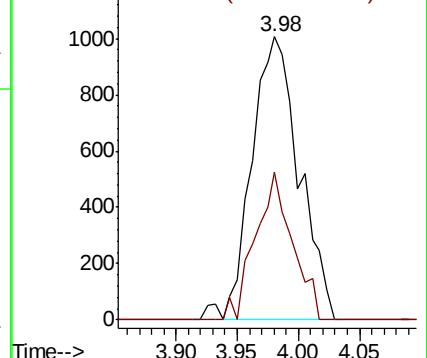
43 100

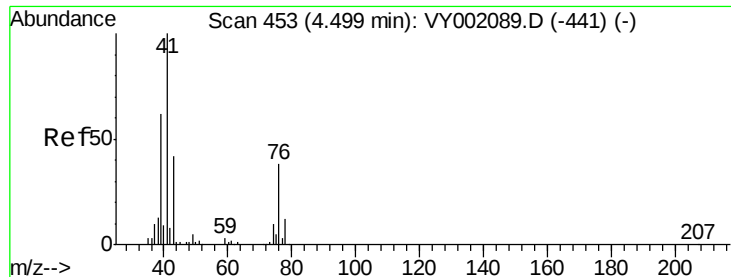
58 52.4 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

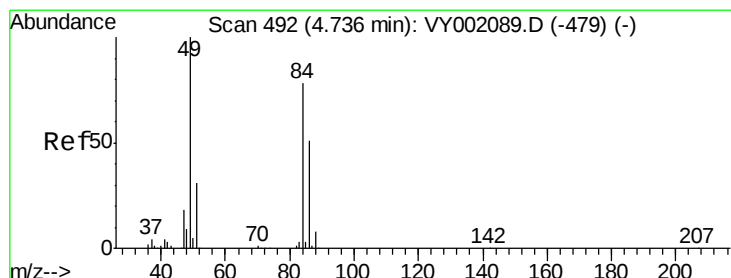
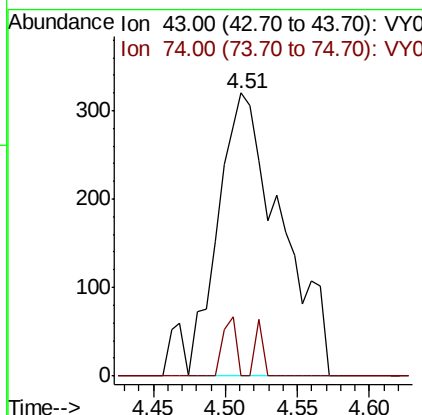
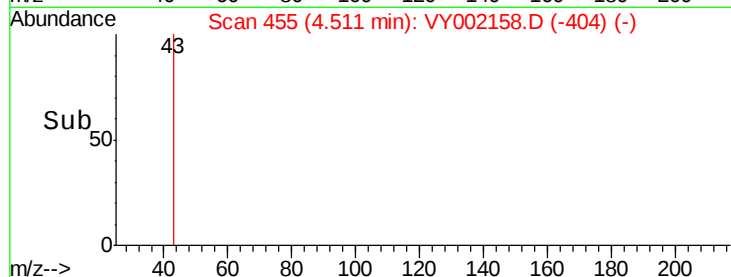
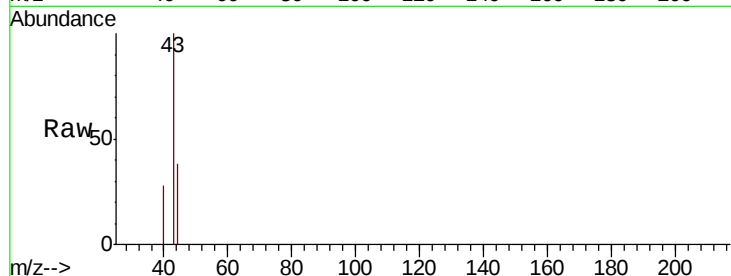




#18
Methyl Acetate
Concen: 1.055 ug/l
RT: 4.51 min Scan# 455
Delta R.T. 0.01 min
Lab File: VY002158.D
Acq: 01 Apr 2020 13:27

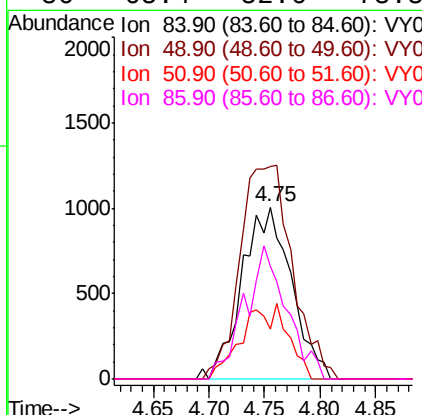
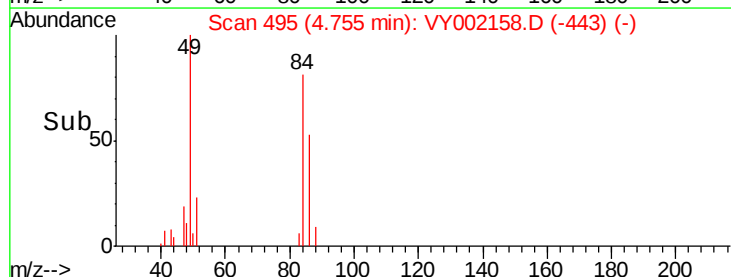
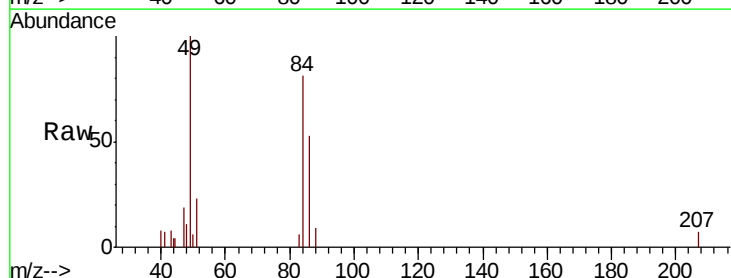
Instrument :
MSVOA_Y
ClientSampleId :

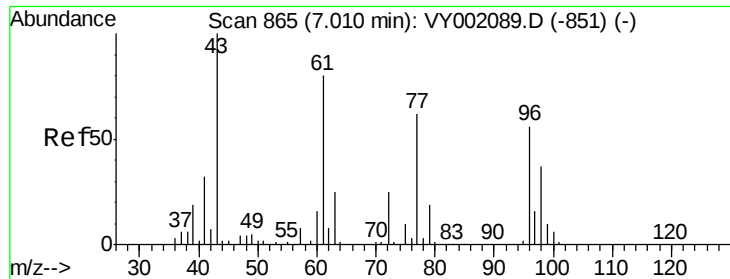
Tot Ion: 43 Resp: 972
Ion Ratio Lower Upper
43 100
74 4.5 18.3 27.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.75 min Scan# 495
Delta R.T. 0.02 min
Lab File: VY002158.D
Acq: 01 Apr 2020 13:27

Tgt Ion: 84 Resp: 3092
Ion Ratio Lower Upper
84 100
49 124.0 102.2 153.4
51 28.9 31.2 46.8#
86 65.4 52.6 78.8

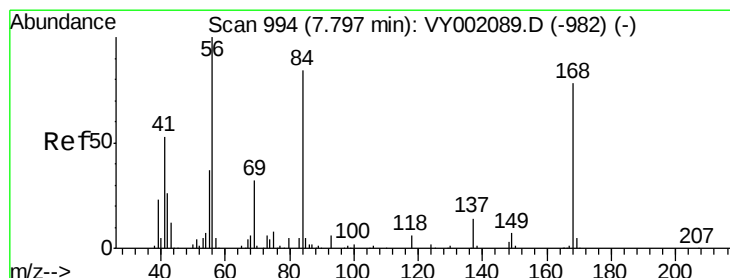
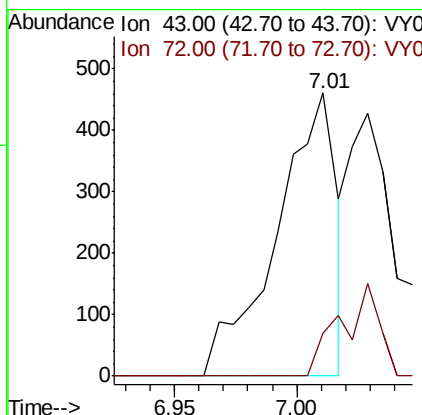
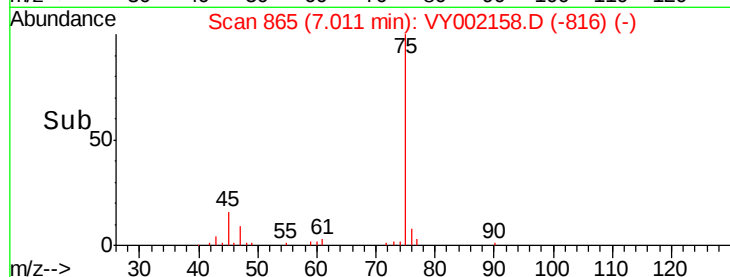
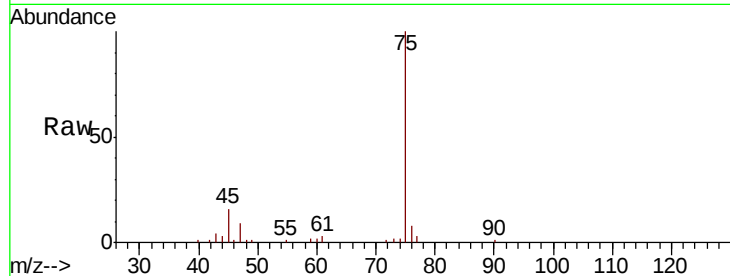




#25
2-Butanone
Concen: 1.443 ug/l
RT: 7.01 min Scan# 865
Delta R.T. 0.00 min
Lab File: VY002158.D
Acq: 01 Apr 2020 13:27

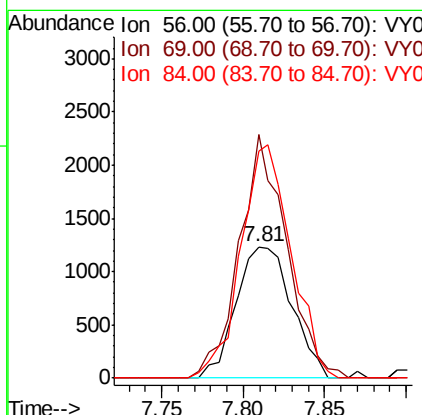
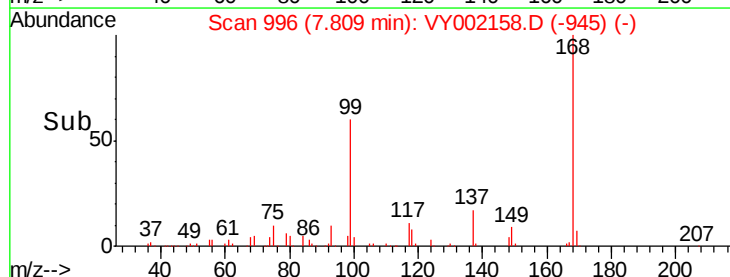
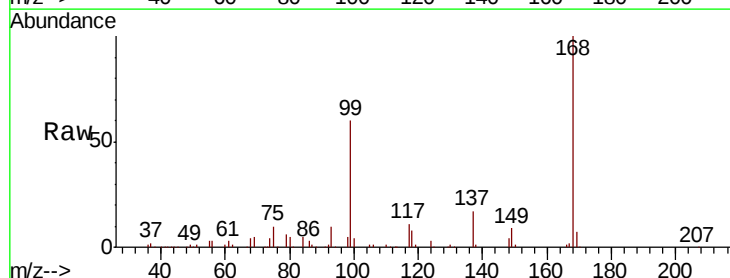
Instrument :
MSVOA_Y
ClientSampled :

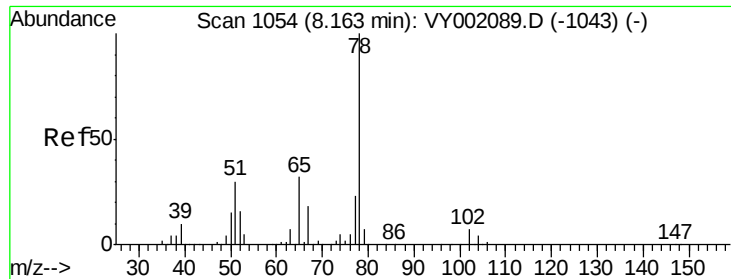
Tot Ion: 43 Resp: 786
Ion Ratio Lower Upper
43 100
72 15.0 20.2 30.2#



#31
Cyclohexane
Concen: 1.110 ug/l
RT: 7.81 min Scan# 996
Delta R.T. 0.01 min
Lab File: VY002158.D
Acq: 01 Apr 2020 13:27

Tgt Ion: 56 Resp: 2921
Ion Ratio Lower Upper
56 100
69 185.5 25.8 38.8#
84 172.7 67.1 100.7#





#33

1,2-Dichloroethane-d4

Concen: 60.012 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY002158.D

Acq: 01 Apr 2020 13:27

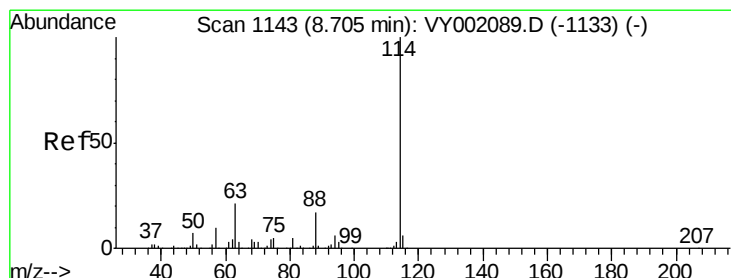
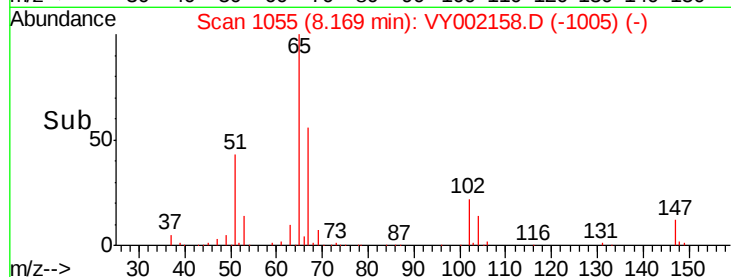
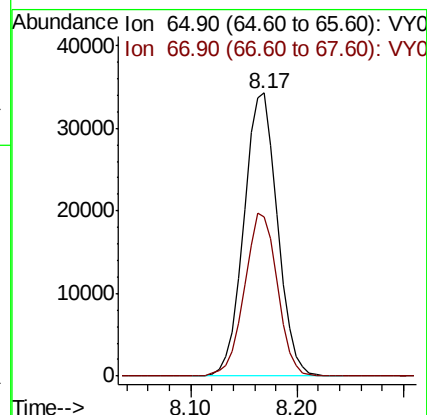
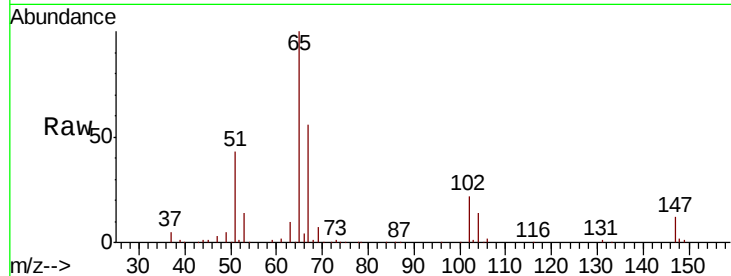
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 65 Resp: 75785

Ion Ratio Lower Upper

65 100

67 56.6 0.0 112.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VY002158.D

Acq: 01 Apr 2020 13:27

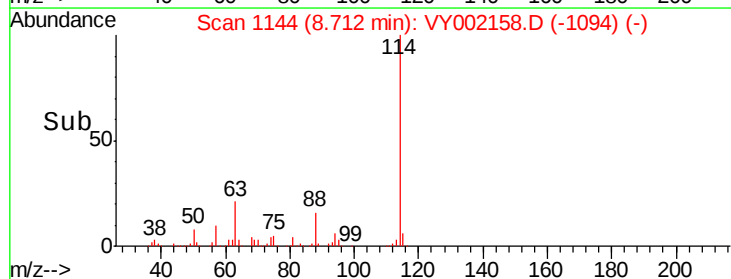
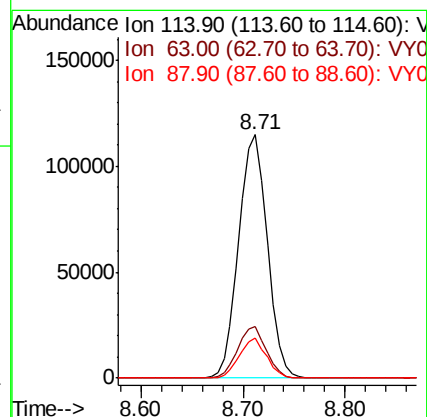
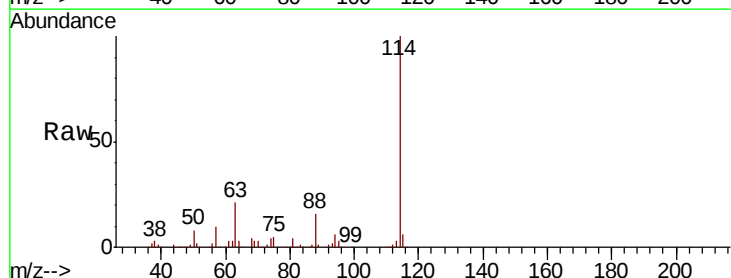
Tgt Ion: 114 Resp: 223503

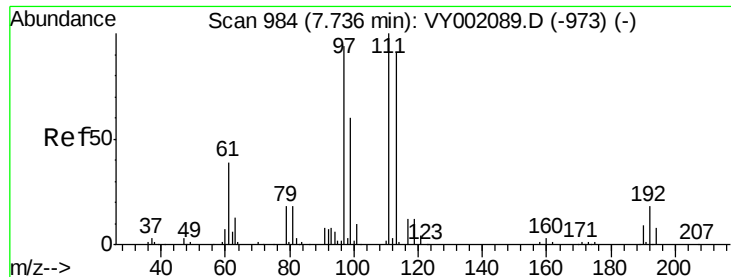
Ion Ratio Lower Upper

114 100

63 21.1 0.0 41.4

88 16.4 0.0 33.0

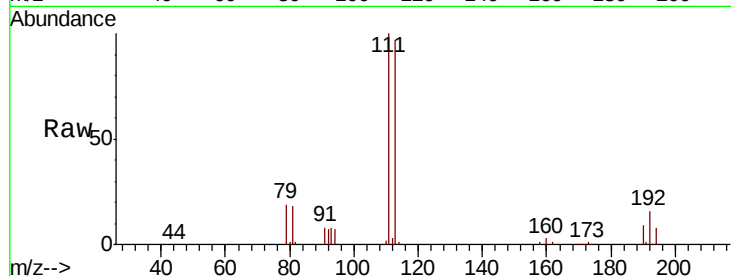




#35
 Dibromofluoromethane
 Concen: 53.761 ug/l
 RT: 7.75 min Scan# 986
 Delta R.T. 0.01 min
 Lab File: VY002158.D
 Acq: 01 Apr 2020 13:27

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	84.4	126.6
192	18.3	14.6	21.8

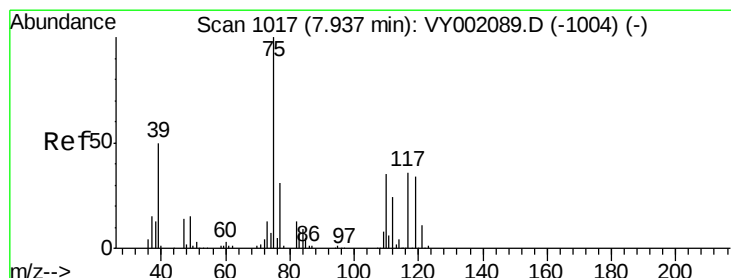
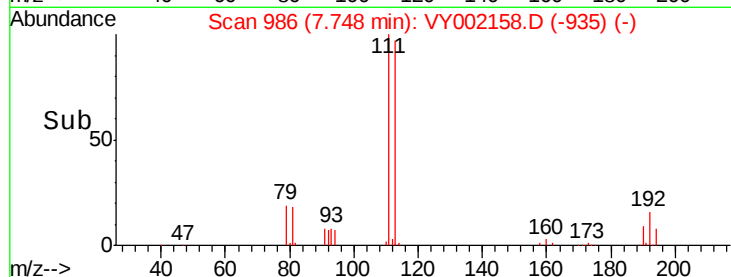
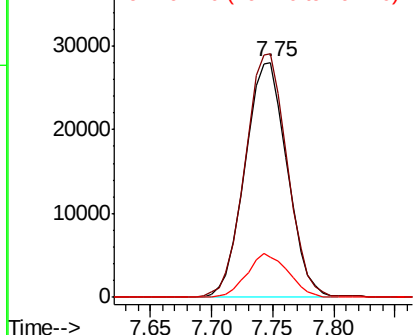


Abundance

Ion 112.80 (112.50 to 113.50): V

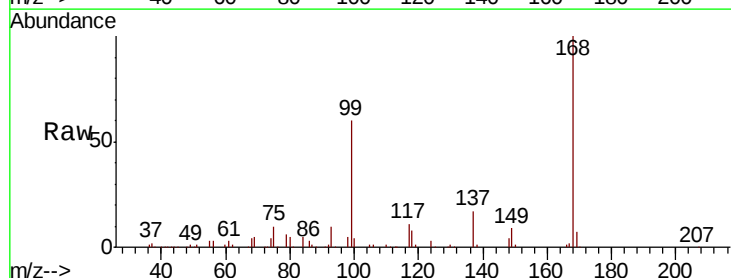
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.912 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.13 min
 Lab File: VY002158.D
 Acq: 01 Apr 2020 13:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	17.2	51.6#
77	0.0	24.7	37.1#

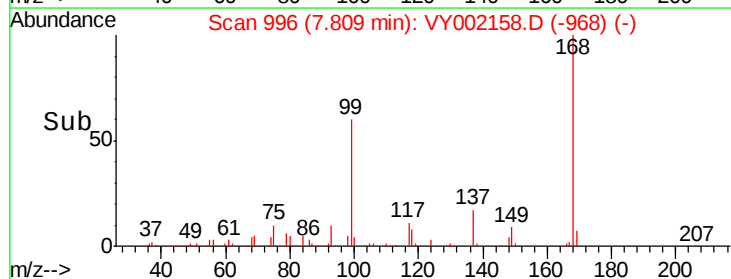
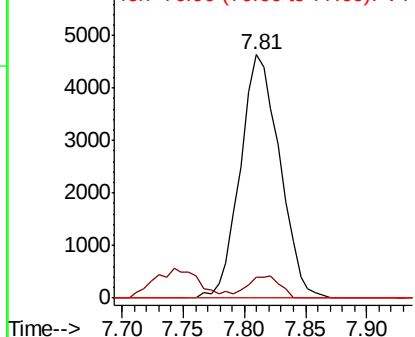


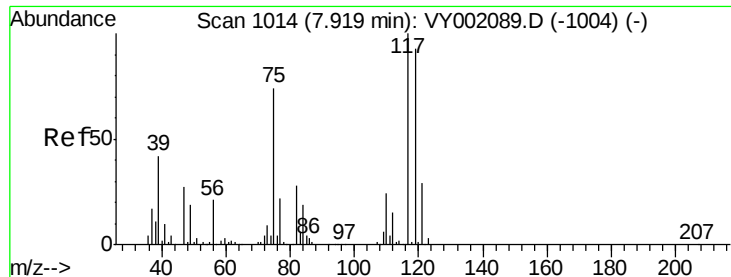
Abundance

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

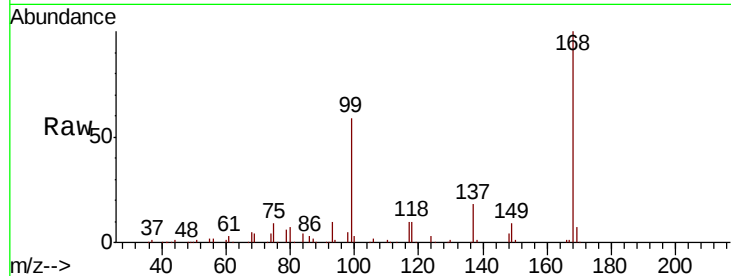




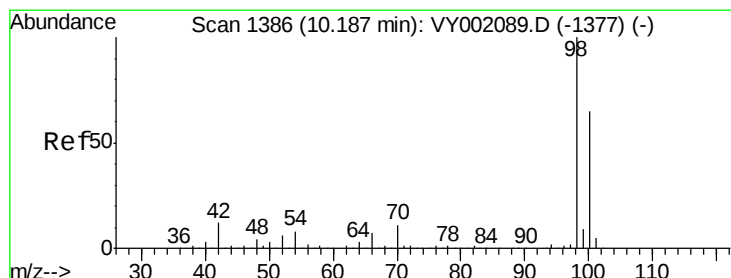
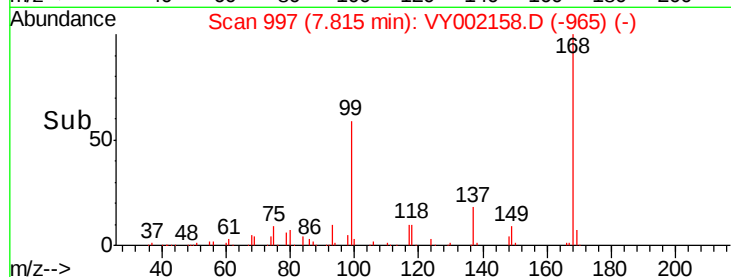
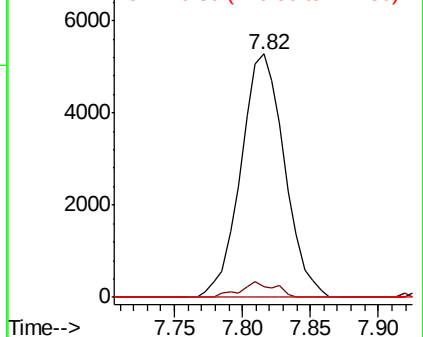
#38
Carbon Tetrachloride
Concen: 6.597 ug/l
RT: 7.82 min Scan# 997
Delta R.T. -0.10 min
Lab File: VY002158.D
Acq: 01 Apr 2020 13:27

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:117 Resp: 11832
Ion Ratio Lower Upper
117 100
119 4.3 74.3 111.5#
121 0.0 23.3 34.9#

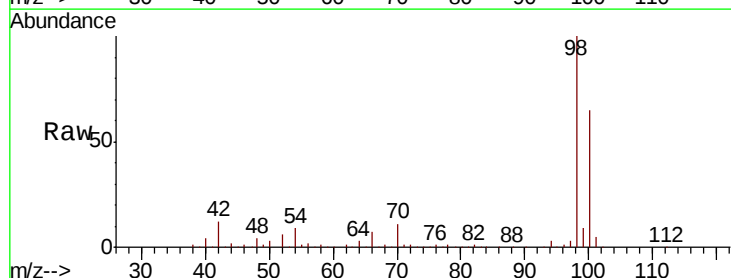


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

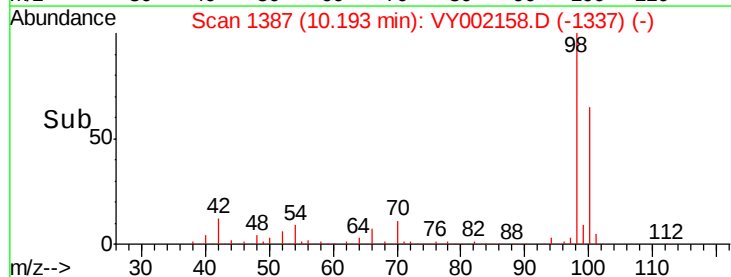
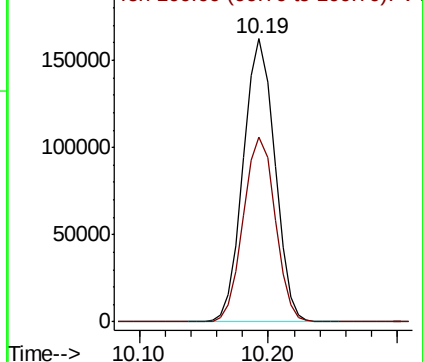


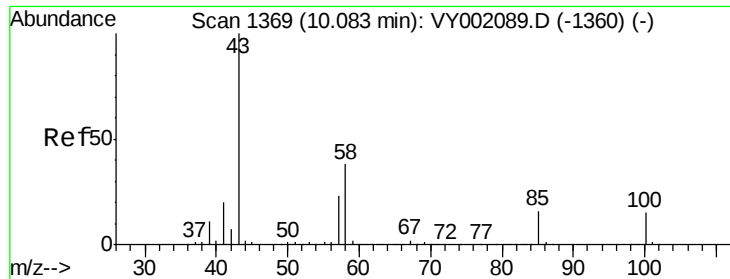
#50
Toluene-d8
Concen: 52.927 ug/l
RT: 10.19 min Scan# 1387
Delta R.T. 0.01 min
Lab File: VY002158.D
Acq: 01 Apr 2020 13:27

Tgt Ion: 98 Resp: 275352
Ion Ratio Lower Upper
98 100
100 65.8 51.6 77.4



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





#51

4-Methyl-2-Pentanone

Concen: 1.276 ug/l

RT: 10.09 min Scan# 1370

Delta R.T. 0.01 min

Lab File: VY002158.D

Acq: 01 Apr 2020 13:27

Instrument :

MSVOA_Y

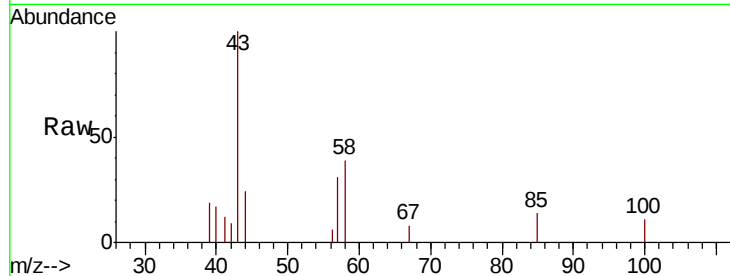
ClientSampled :

Tot Ion: 43 Resp: 1558

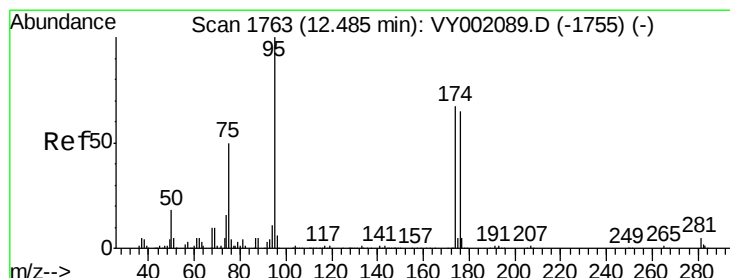
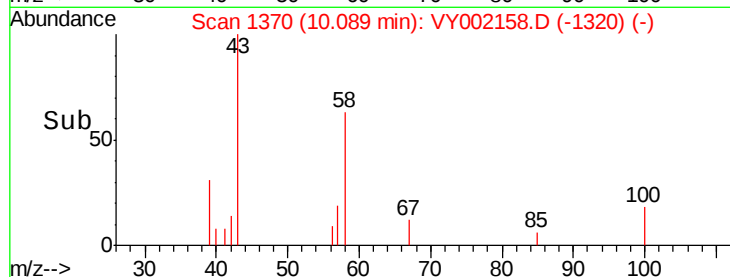
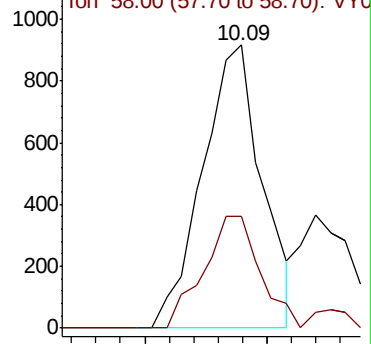
Ion Ratio Lower Upper

43 100

58 37.4 31.6 47.4



Abundance Ion 43.00 (42.70 to 43.70): VY002158.D (-1370) (-)



#62

4-Bromofluorobenzene

Concen: 52.454 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VY002158.D

Acq: 01 Apr 2020 13:27

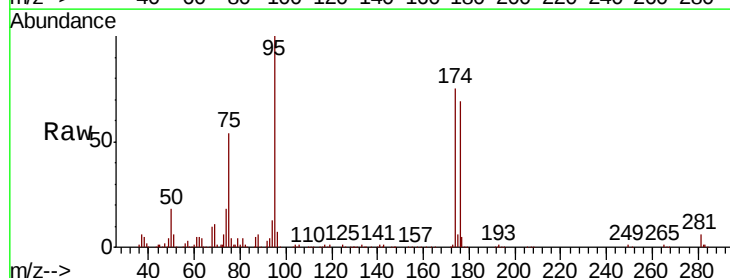
Tgt Ion: 95 Resp: 95438

Ion Ratio Lower Upper

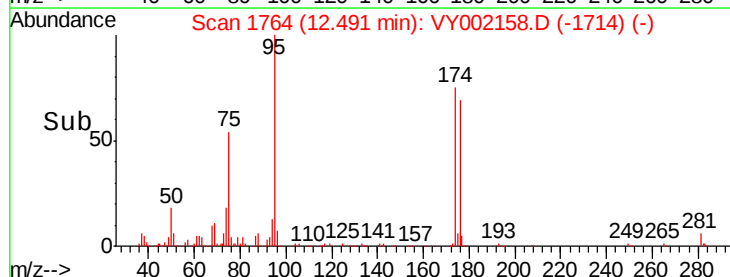
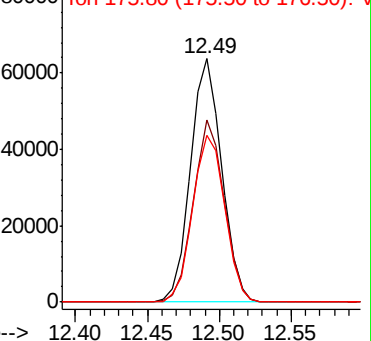
95 100

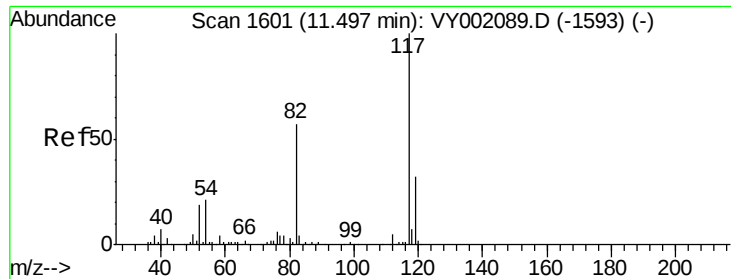
174 73.9 0.0 143.4

176 70.7 0.0 137.0



Abundance Ion 94.90 (94.60 to 95.60): VY002158.D (-1764) (-)

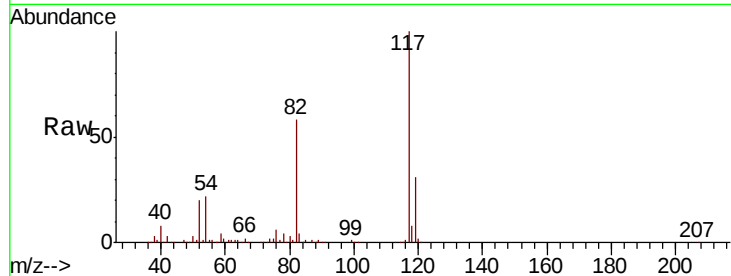




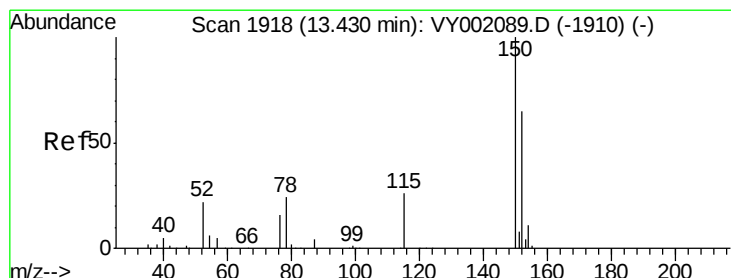
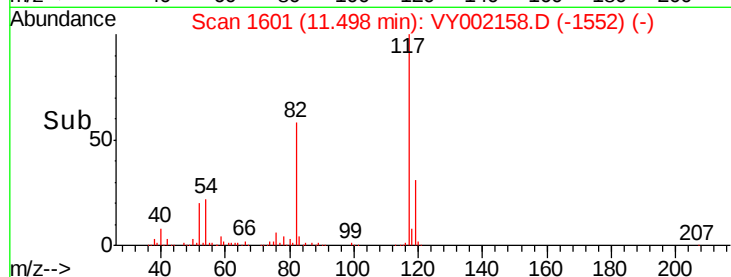
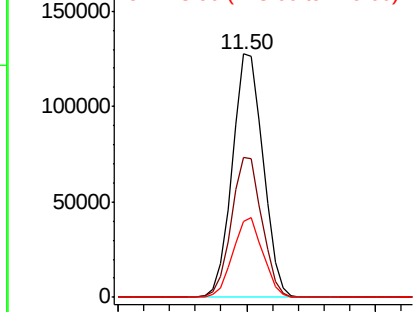
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. 0.00 min
Lab File: VY002158.D
Acq: 01 Apr 2020 13:27

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.6	45.4	68.2
119	31.4	25.3	37.9

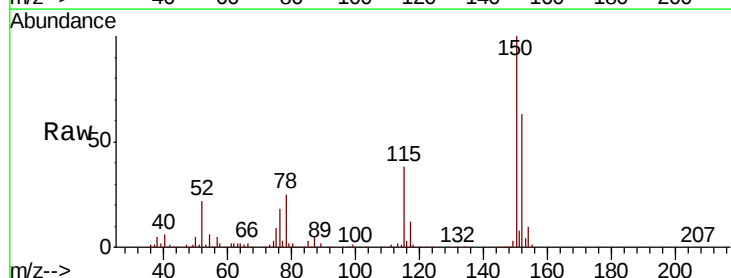


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

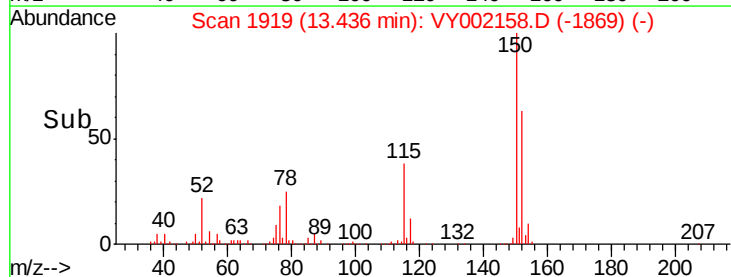
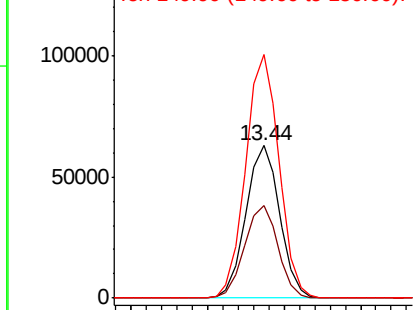


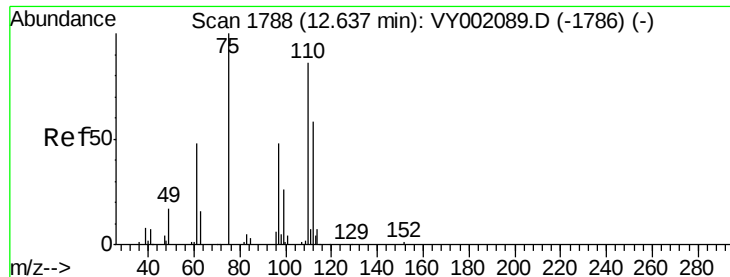
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. 0.01 min
Lab File: VY002158.D
Acq: 01 Apr 2020 13:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.4	31.2	93.6
150	158.0	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





#76

1,2,3-Trichloropropane

Concen: 46.628 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002158.D

Acq: 01 Apr 2020 13:27

Instrument :

MSVOA_Y

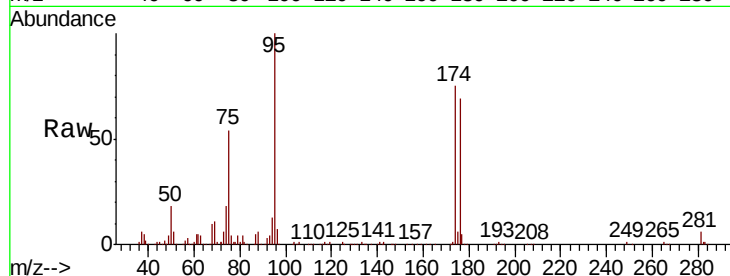
ClientSampleId :

Tot Ion: 75 Resp: 50255

Ion Ratio Lower Upper

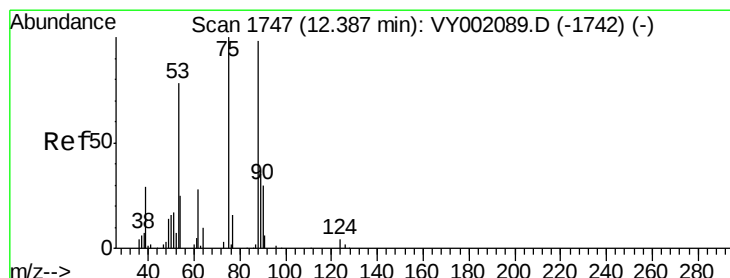
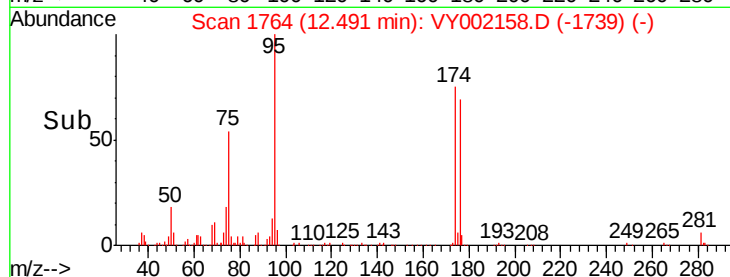
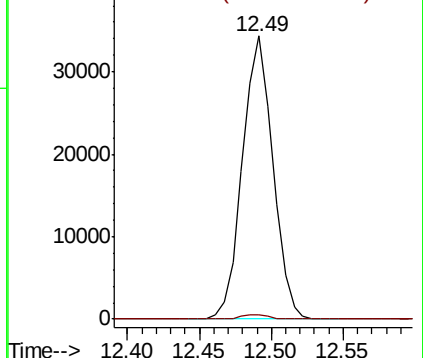
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 90.334 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002158.D

Acq: 01 Apr 2020 13:27

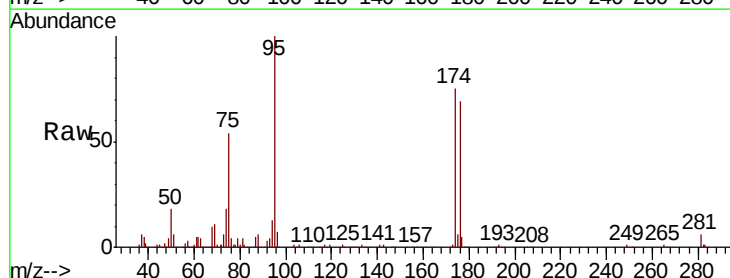
Tgt Ion: 75 Resp: 50255

Ion Ratio Lower Upper

75 100

53 0.0 65.0 97.4#

89 0.2 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

