

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY022020\
 Data File : VY001725.D
 Acq On : 20 Feb 2020 16:04
 Operator : SY/MD
 Sample : L1624-02
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 21 08:05:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y021720S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 17 12:19:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	22831	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	38061	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	27773	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	10288	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	9966	40.58	ug/l	0.00
Spiked Amount			Recovery	=	81.16%	
35) Dibromofluoromethane	7.74	113	9902	45.42	ug/l	0.00
Spiked Amount			Recovery	=	90.84%	
50) Toluene-d8	10.19	98	42080	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
62) 4-Bromofluorobenzene	12.49	95	11725	35.34	ug/l	0.00
Spiked Amount			Recovery	=	70.68%	

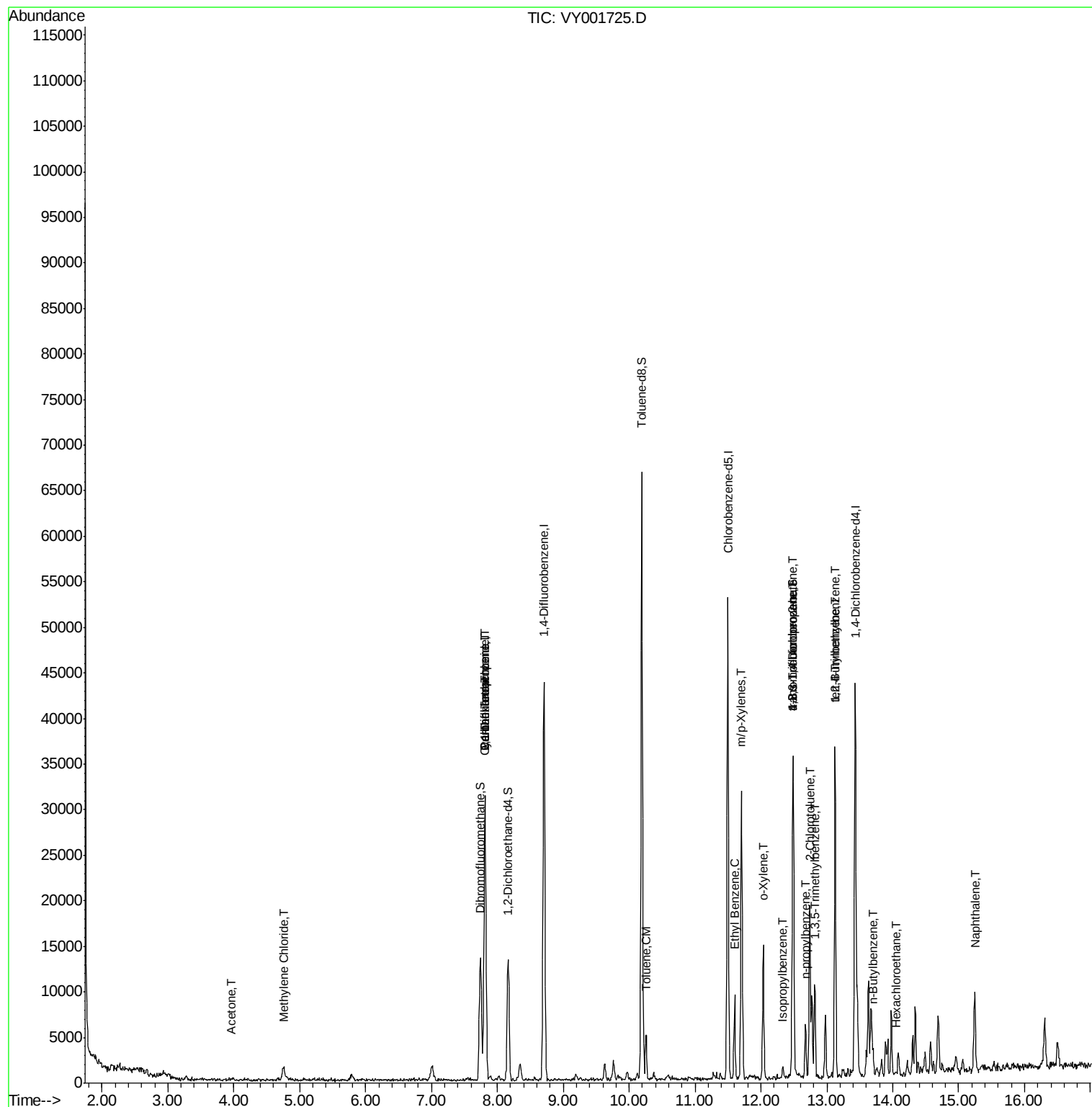
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.00	59	23	Below Cal	#	74
16) Acetone	3.97	43	201	2.365	ug/l #	41
20) Methylene Chloride	4.76	84	1099	3.641	ug/l #	84
31) Cyclohexane	7.80	56	700	1.357	ug/l #	25
36) 1,1-Dichloropropene	7.82	75	1974	5.430	ug/l #	44
38) Carbon Tetrachloride	7.82	117	2528	7.917	ug/l #	18
52) Toluene	10.25	92	2108	3.161	ug/l	93
67) Ethyl Benzene	11.60	91	6538	6.354	ug/l	95
68) m/p-Xylenes	11.70	106	9389	24.427	ug/l	97
69) o-Xylene	12.03	106	3774	10.328	ug/l	98
73) Isopropylbenzene	12.33	105	1084	1.383	ug/l	99
76) 1,2,3-Trichloropropane	12.49	75	5812	49.247	ug/l #	100
78) n-propylbenzene	12.67	91	4141	4.338	ug/l	99
79) 2-Chlorotoluene	12.74	91	1756	3.280	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.81	105	5136	7.916	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.49	75	5812	93.430	ug/l #	17
83) tert-Butylbenzene	13.13	119	2468	4.548	ug/l #	63
84) 1,2,4-Trimethylbenzene	13.13	105	18838	29.125	ug/l	95
89) n-Butylbenzene	13.70	91	834	1.177	ug/l #	72
90) Hexachloroethane	14.04	117	222	1.700	ug/l #	18
95) Naphthalene	15.25	128	7042	15.156	ug/l	98

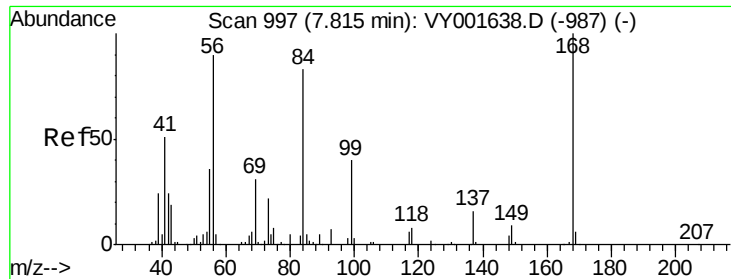
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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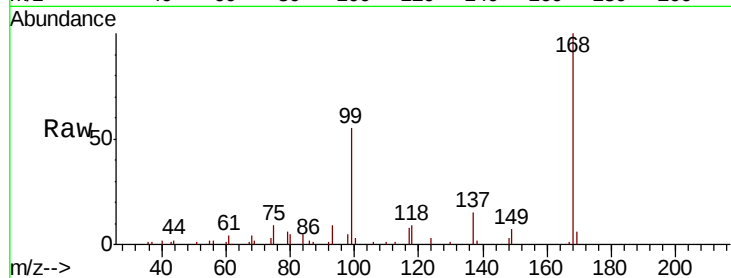




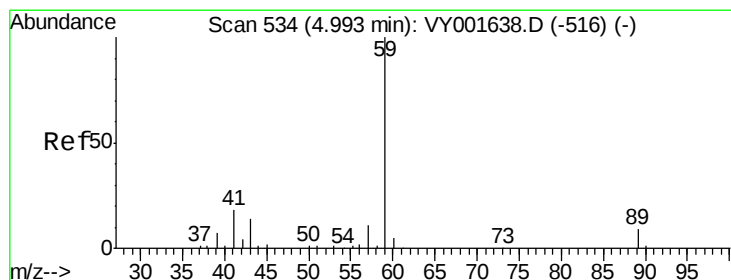
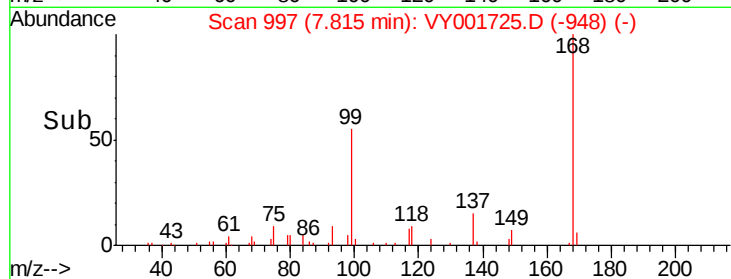
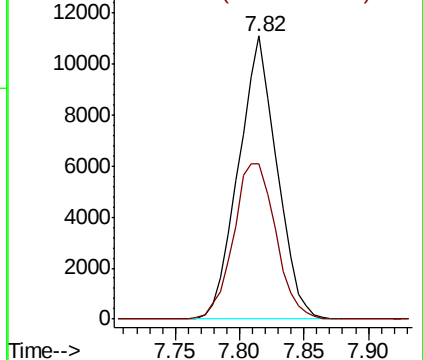
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.82 min Scan# 997
Delta R.T. 0.00 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 22831
Ion Ratio Lower Upper
168 100
99 54.8 47.5 71.3

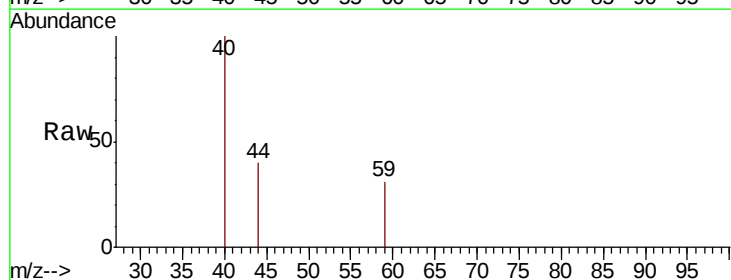


Abundance Ion 167.90 (167.60 to 168.60): VY001638.D (-987) (-)
Ion 98.90 (98.60 to 99.60): VY001638.D (-987) (-)

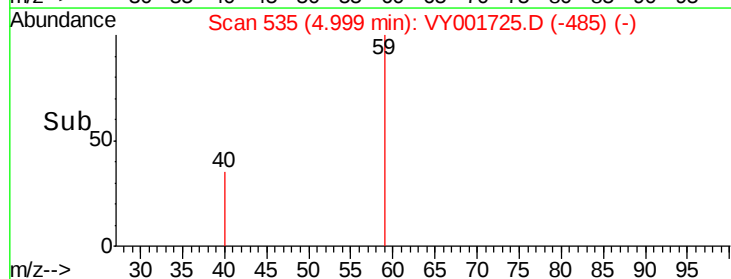
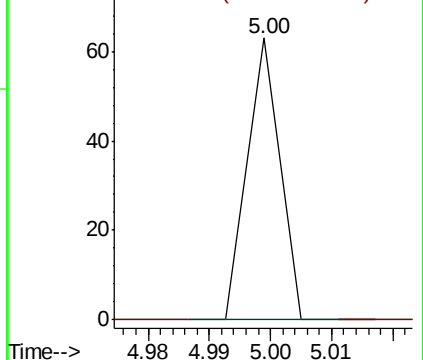


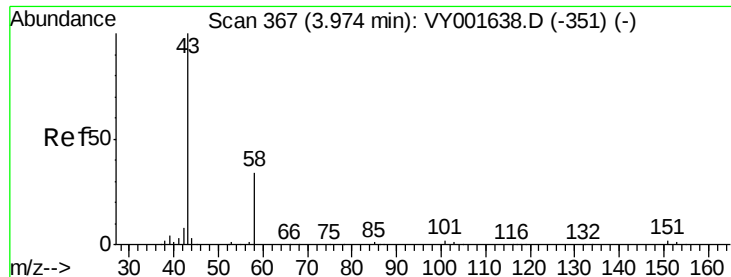
#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.00 min Scan# 535
Delta R.T. 0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Tgt Ion: 59 Resp: 23
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001638.D (-516) (-)
Ion 57.00 (56.70 to 57.70): VY001638.D (-516) (-)





#16

Acetone

Concen: 2.365 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.01 min

Lab File: VY001725.D

Acq: 20 Feb 2020 16:04

Instrument :

MSVOA_Y

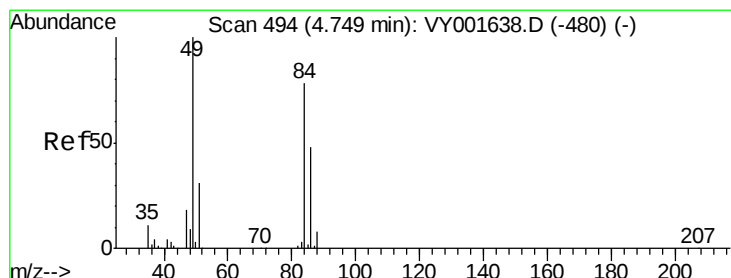
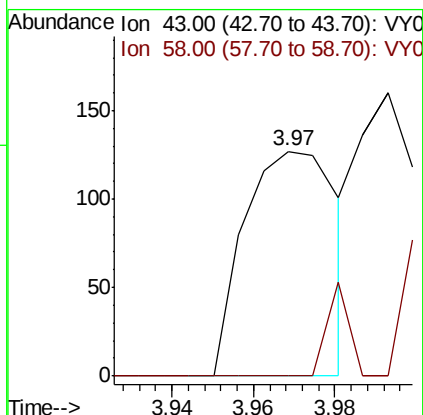
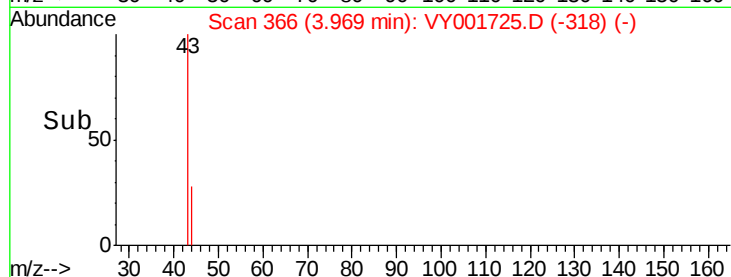
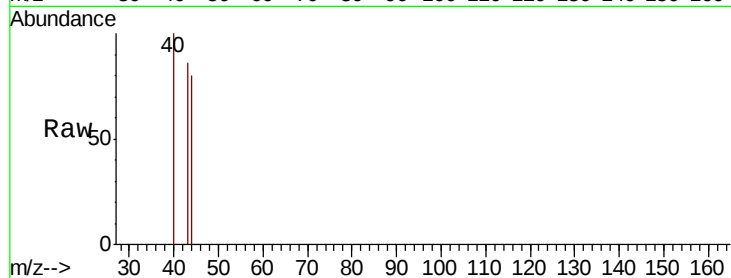
ClientSampleId :

Tot Ion: 43 Resp: 201

Ion Ratio Lower Upper

43 100

58 0.0 27.3 40.9#



#20

Methylene Chloride

Concen: 3.641 ug/l

RT: 4.76 min Scan# 496

Delta R.T. 0.01 min

Lab File: VY001725.D

Acq: 20 Feb 2020 16:04

Tgt Ion: 84 Resp: 1099

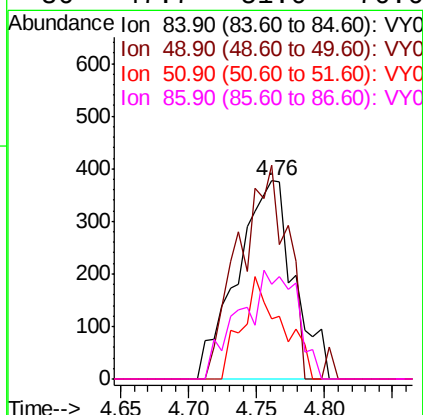
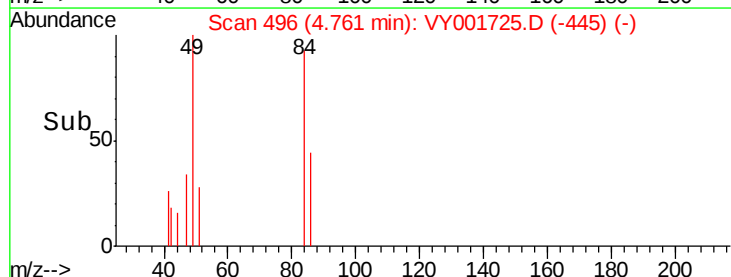
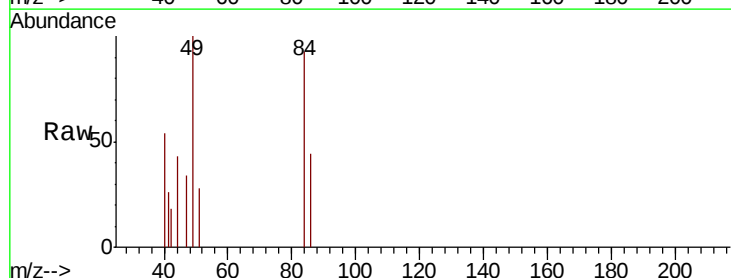
Ion Ratio Lower Upper

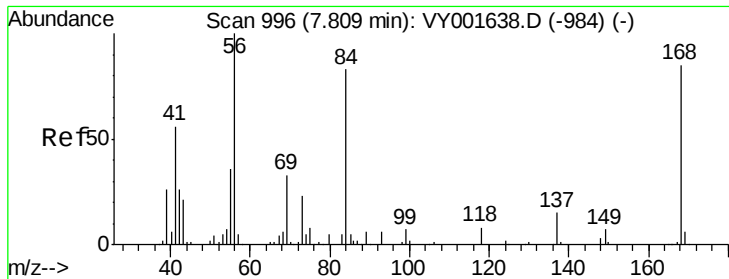
84 100

49 107.7 99.2 148.8

51 30.2 31.5 47.3#

86 47.7 51.0 76.6#

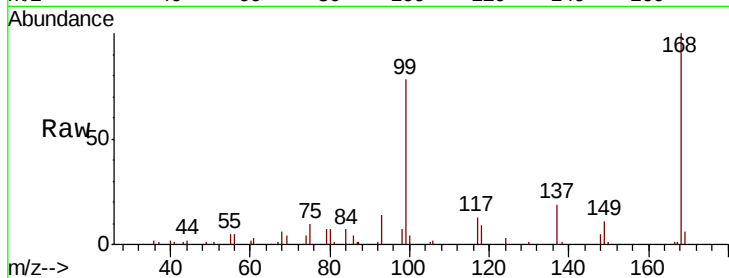




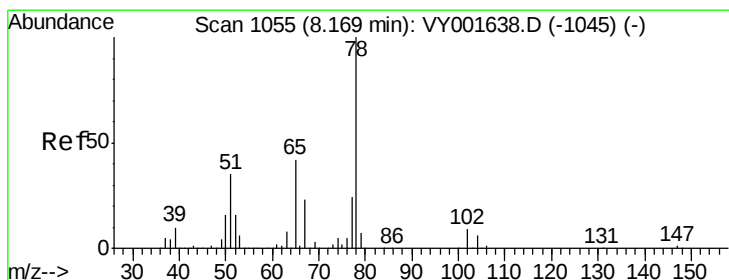
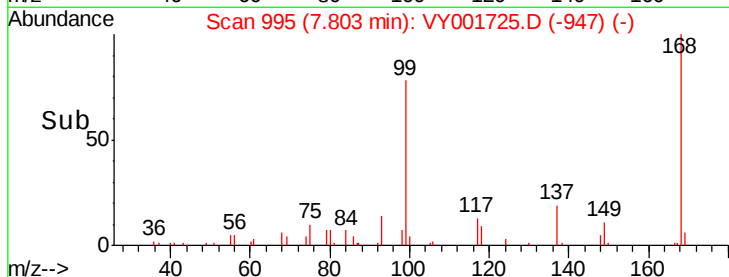
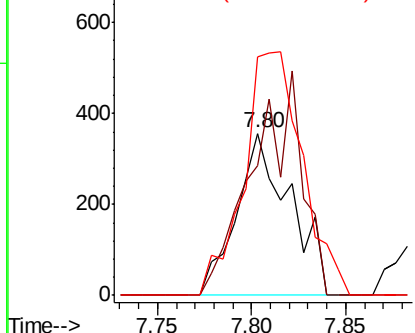
#31
Cyclohexane
Concen: 1.357 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 56 Resp: 700
Ion Ratio Lower Upper
56 100
69 80.1 25.1 37.7#
84 146.8 66.9 100.3#

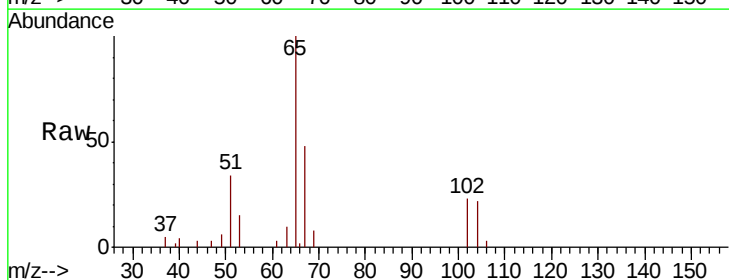


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

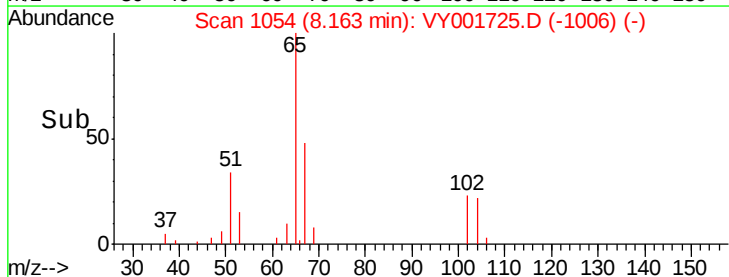
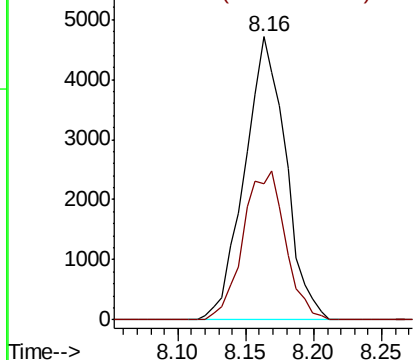


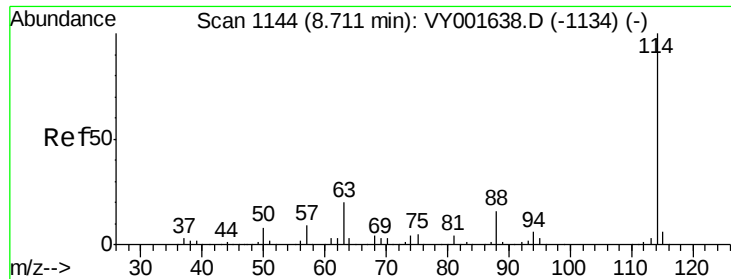
#33
1,2-Dichloroethane-d4
Concen: 40.581 ug/l
RT: 8.16 min Scan# 1054
Delta R.T. -0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Tgt Ion: 65 Resp: 9966
Ion Ratio Lower Upper
65 100
67 54.1 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0

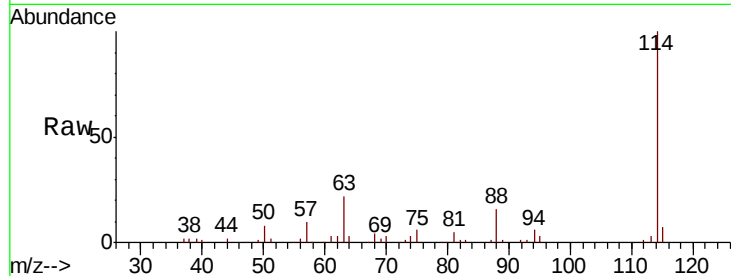




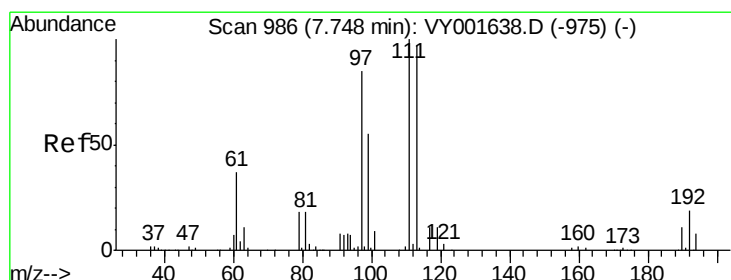
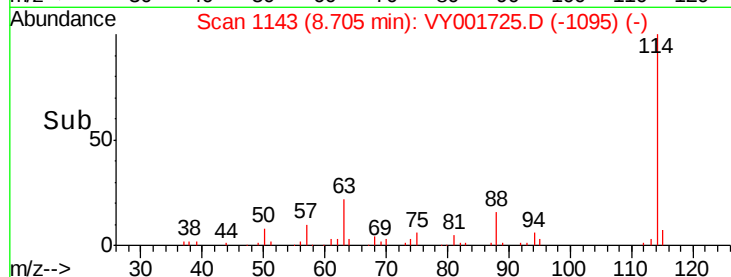
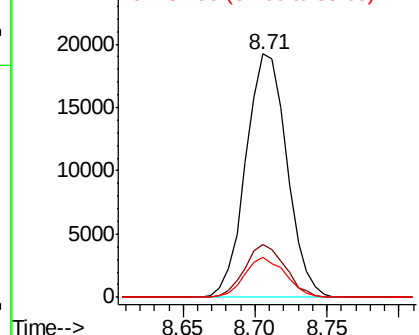
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VY001725.D
 Acq: 20 Feb 2020 16:04

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:114 Resp: 38061
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 41.4
 88 16.5 0.0 32.8

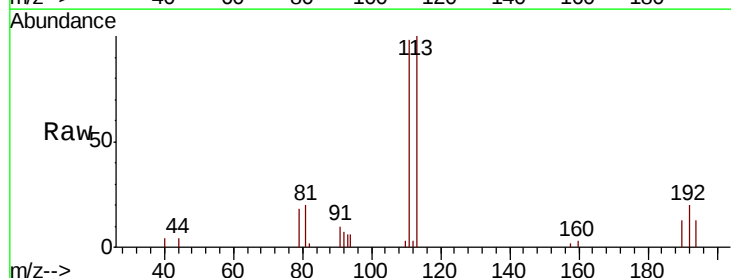


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

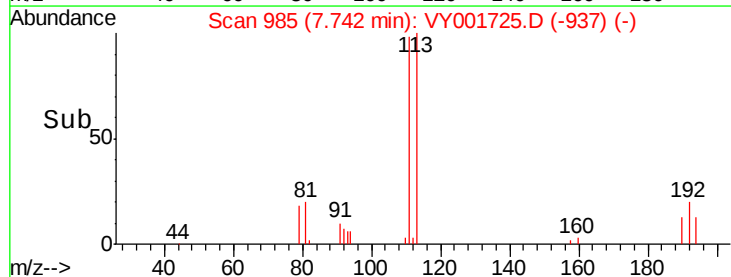
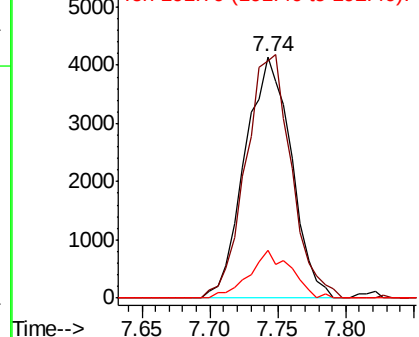


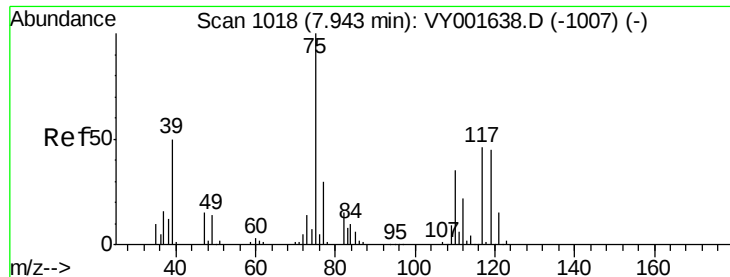
#35
 Dibromofluoromethane
 Concen: 45.423 ug/l
 RT: 7.74 min Scan# 985
 Delta R.T. -0.01 min
 Lab File: VY001725.D
 Acq: 20 Feb 2020 16:04

Tgt Ion:113 Resp: 9902
 Ion Ratio Lower Upper
 113 100
 111 98.9 81.9 122.9
 192 17.8 14.3 21.5



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

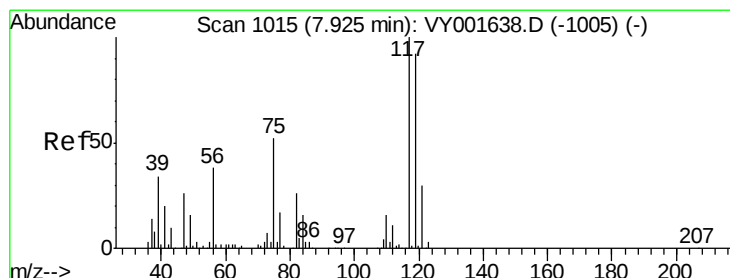
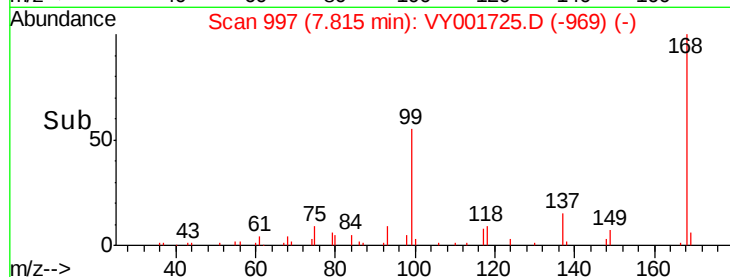
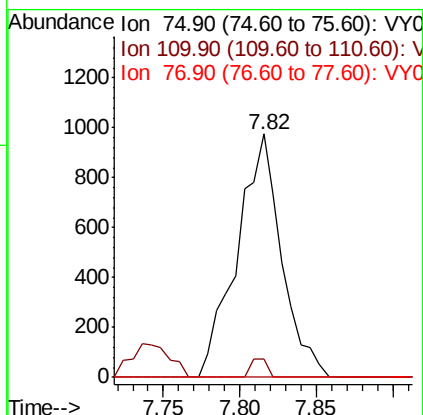
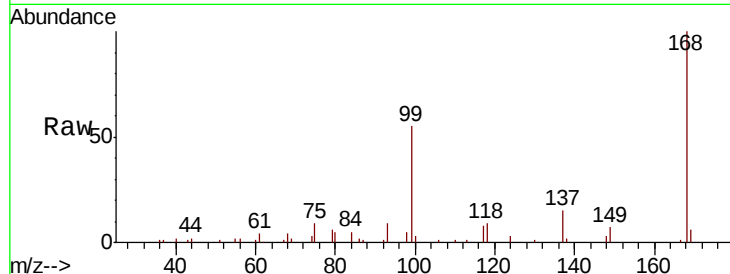




#36
 1,1-Dichloropropene
 Concen: 5.430 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.13 min
 Lab File: VY001725.D
 Acq: 20 Feb 2020 16:04

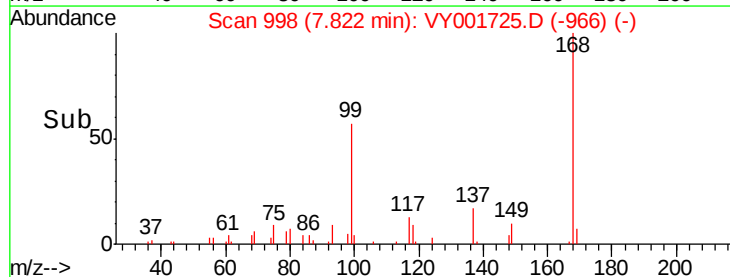
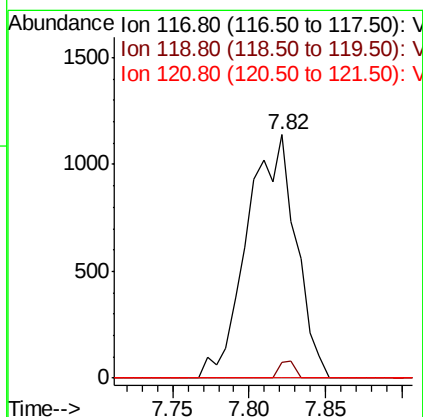
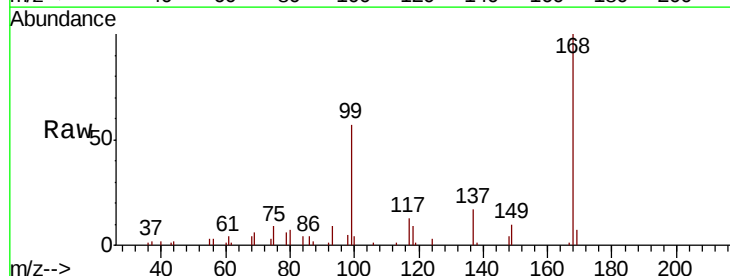
Instrument :
 MSVOA_Y
 ClientSampled :

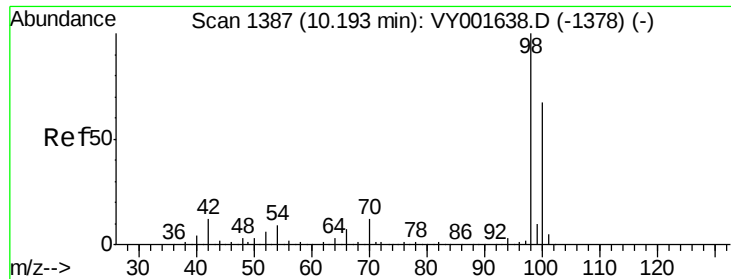
Tot Ion	Ratio	Lower	Upper
75	100		
110	2.8	17.2	51.6#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.917 ug/l
 RT: 7.82 min Scan# 998
 Delta R.T. -0.10 min
 Lab File: VY001725.D
 Acq: 20 Feb 2020 16:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	74.8	112.2#
121	0.0	23.8	35.6#





#50

Toluene-d8

Concen: 49.271 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VY001725.D

Acq: 20 Feb 2020 16:04

Instrument :

MSVOA_Y

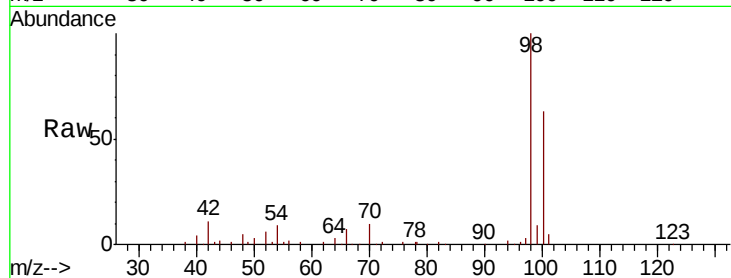
ClientSampled :

Tot Ion: 98 Resp: 42080

Ion Ratio Lower Upper

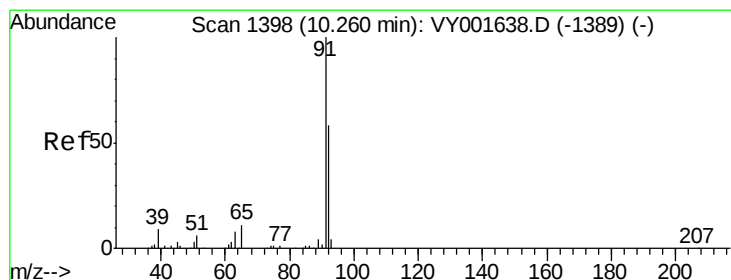
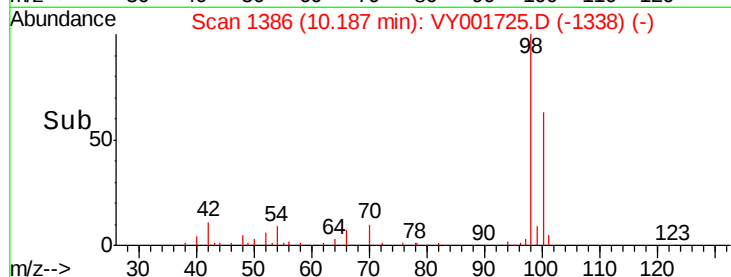
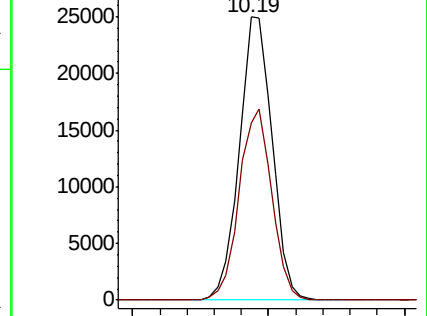
98 100

100 67.2 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



#52

Toluene

Concen: 3.161 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.01 min

Lab File: VY001725.D

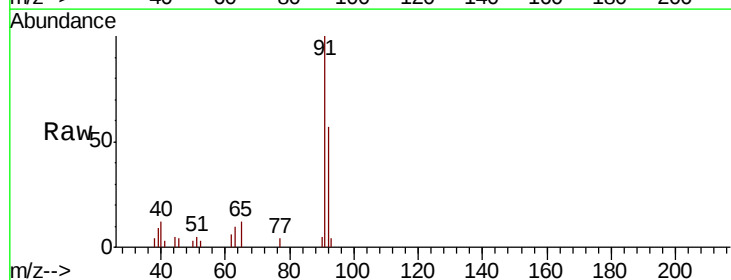
Acq: 20 Feb 2020 16:04

Tgt Ion: 92 Resp: 2108

Ion Ratio Lower Upper

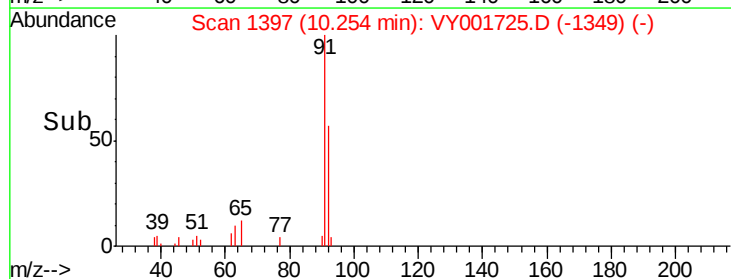
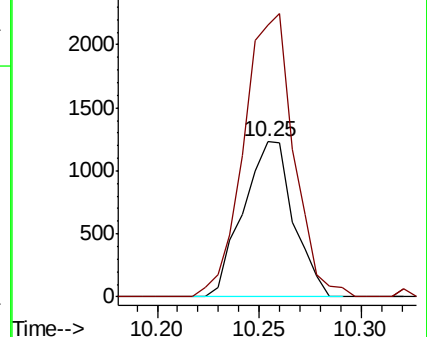
92 100

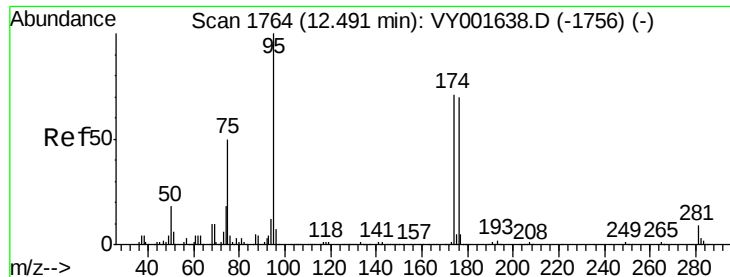
91 181.6 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0

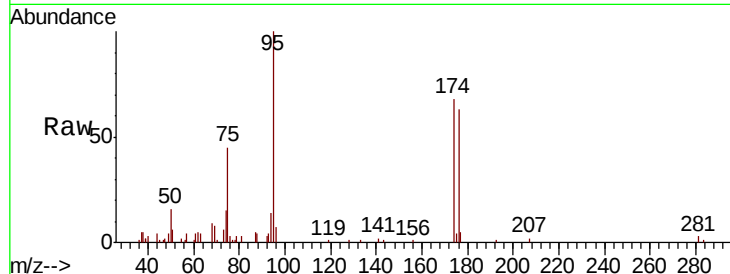




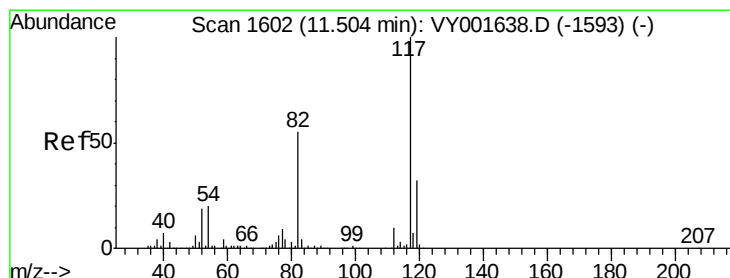
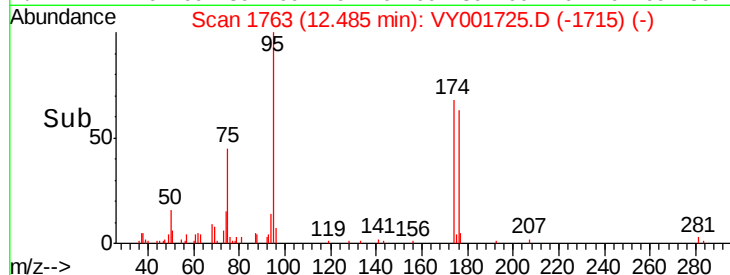
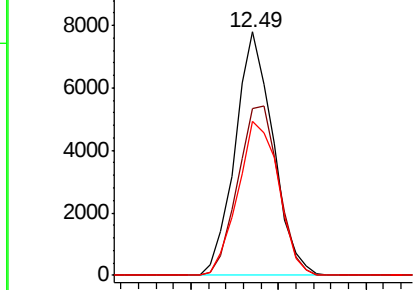
#62
4-Bromofluorobenzene
Concen: 35.339 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. -0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	95	Resp	11725
Ion Ratio	Lower	Upper	
95	100		
174	74.4	0.0	138.4
176	68.0	0.0	131.8

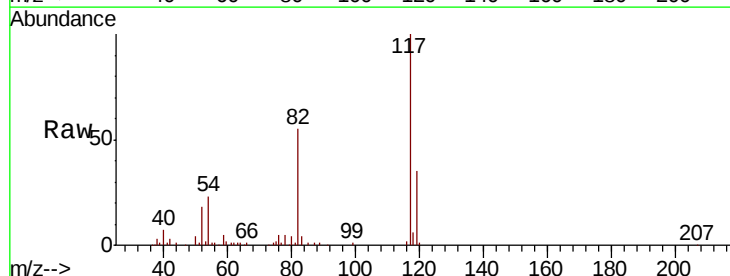


Abundance Ion 94.90 (94.60 to 95.60): VY001638.D (-1756) (-)
Ion 173.80 (173.50 to 174.50): VY001638.D (-1756) (-)
Ion 175.80 (175.50 to 176.50): VY001638.D (-1756) (-)

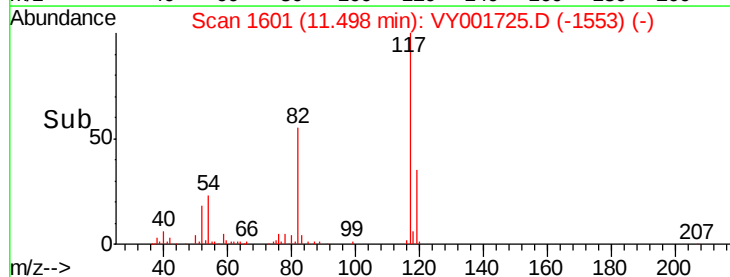
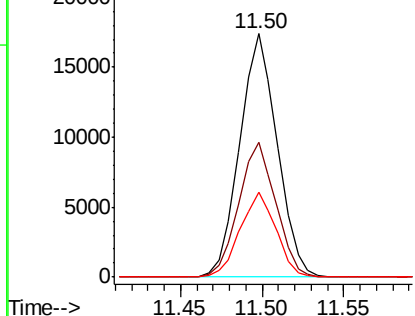


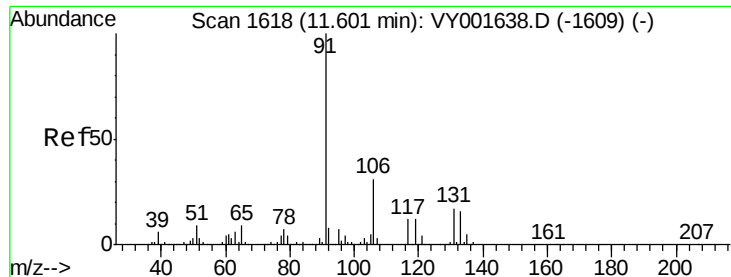
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Tgt Ion	117	Resp	27773
Ion Ratio	Lower	Upper	
117	100		
82	55.4	45.5	68.3
119	34.7	25.8	38.6



Abundance Ion 116.90 (116.60 to 117.60): VY001638.D (-1593) (-)
Ion 82.00 (81.70 to 82.70): VY001638.D (-1593) (-)
Ion 118.90 (118.60 to 119.60): VY001638.D (-1593) (-)

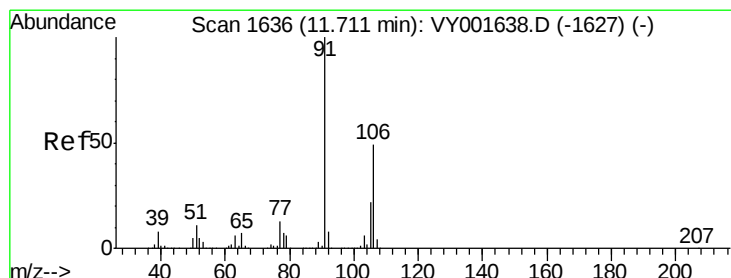
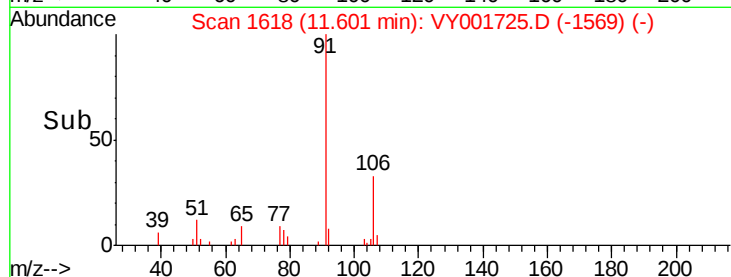
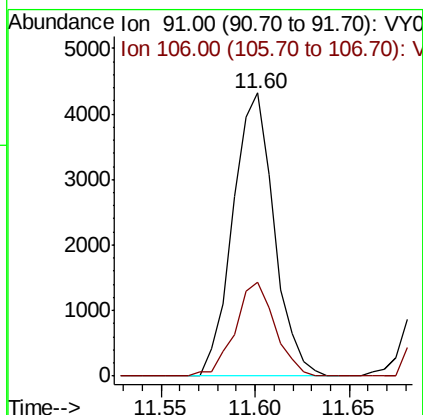
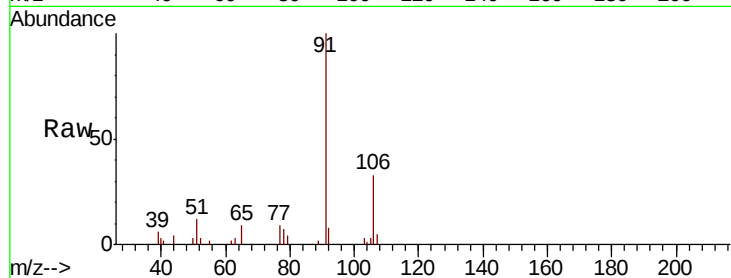




#67
Ethyl Benzene
Concen: 6.354 ug/l
RT: 11.60 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

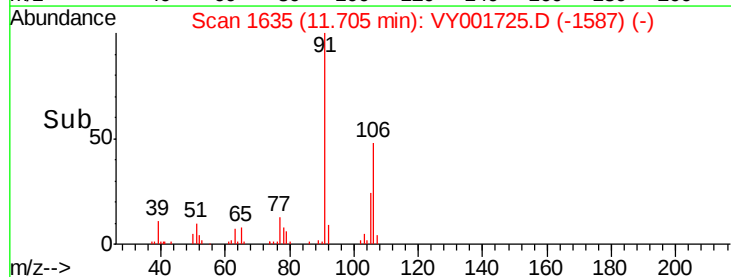
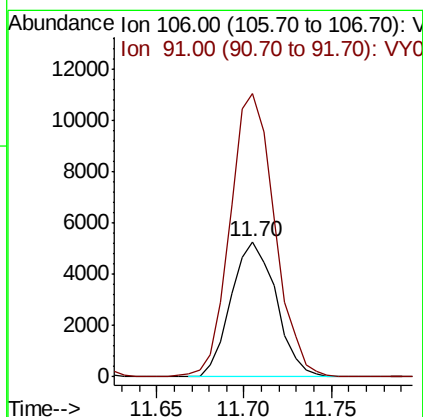
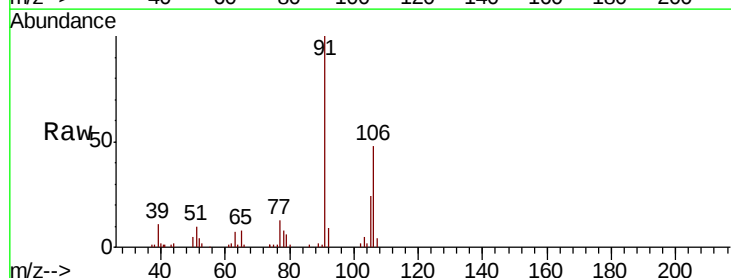
Instrument :
MSVOA_Y
ClientSampleId :

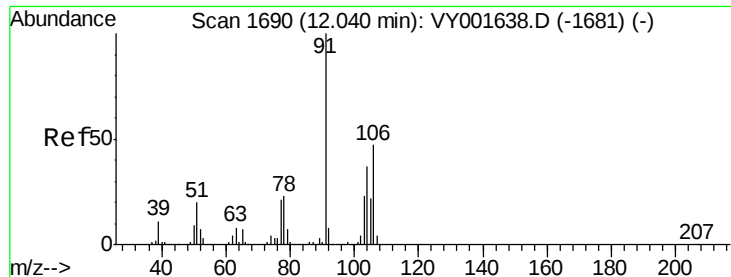
Tot Ion: 91 Resp: 6538
Ion Ratio Lower Upper
91 100
106 33.3 24.5 36.7



#68
m/p-Xylenes
Concen: 24.427 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Tgt Ion: 106 Resp: 9389
Ion Ratio Lower Upper
106 100
91 208.3 163.3 244.9

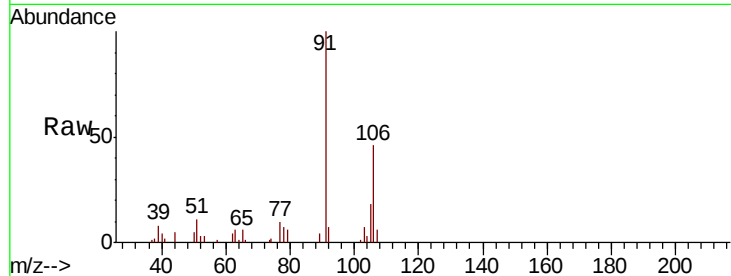




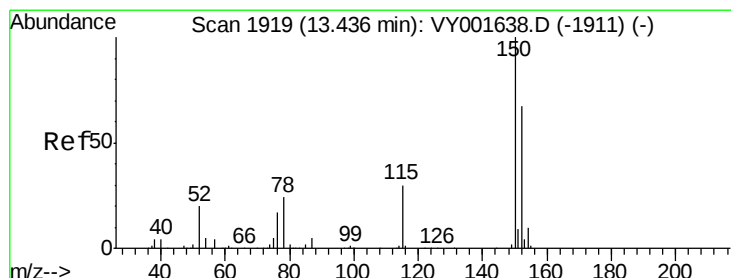
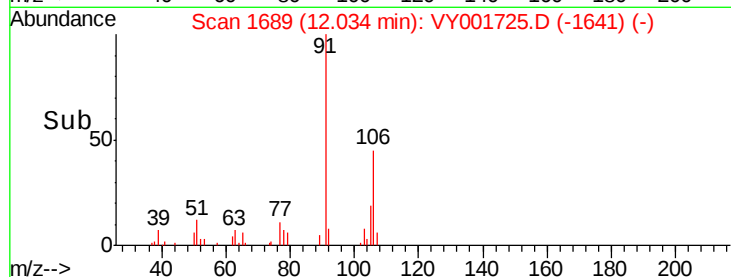
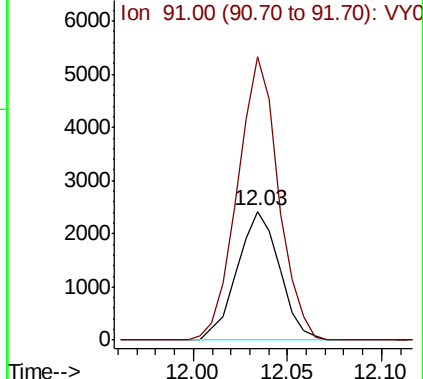
#69
o-Xylene
Concen: 10.328 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:106 Resp: 3774
Ion Ratio Lower Upper
106 100
91 213.0 108.3 324.9

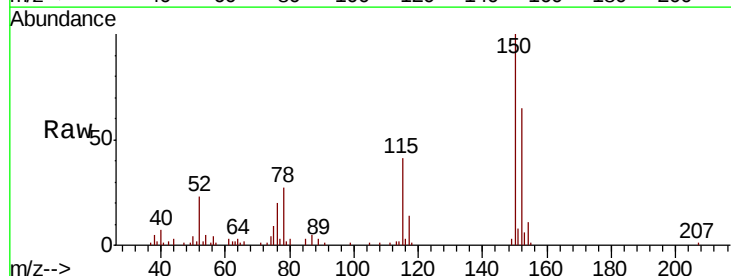


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

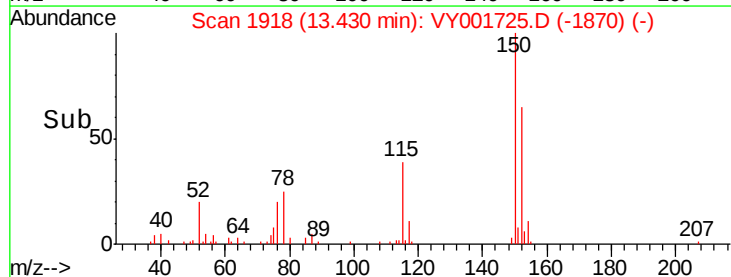
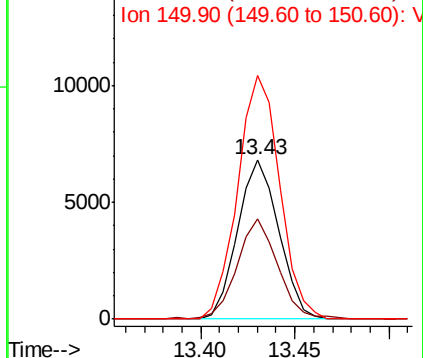


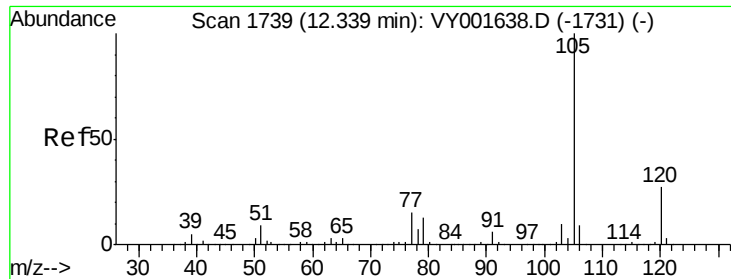
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Tgt Ion:152 Resp: 10288
Ion Ratio Lower Upper
152 100
115 62.9 31.4 94.2
150 156.3 0.0 407.2



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

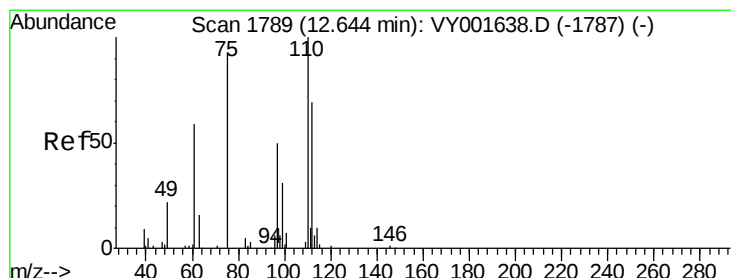
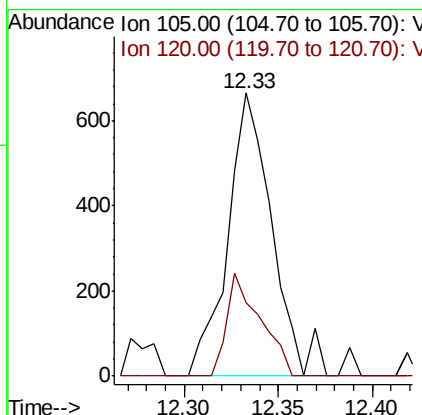
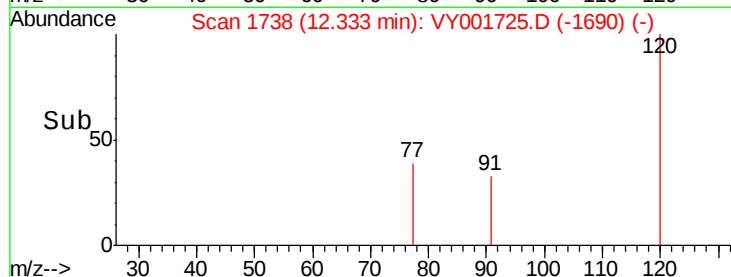
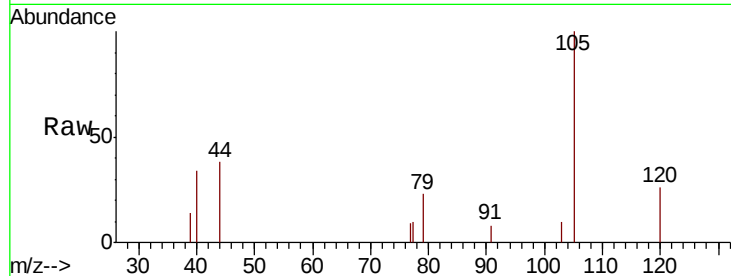




#73
Isopropylbenzene
Concen: 1.383 ug/l
RT: 12.33 min Scan# 1738
Delta R.T. -0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

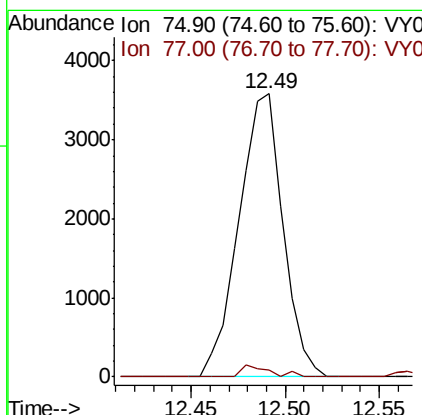
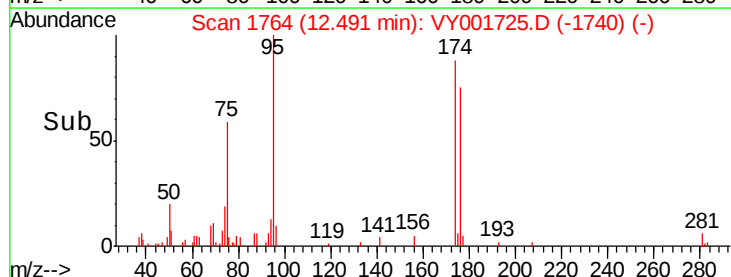
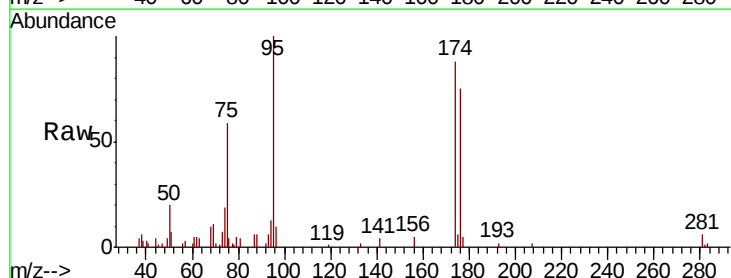
Instrument :
MSVOA_Y
ClientSampleId :

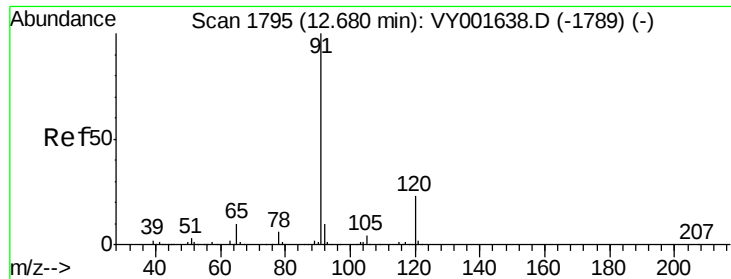
Tot Ion:105 Resp: 1084
Ion Ratio Lower Upper
105 100
120 27.4 13.4 40.1



#76
1,2,3-Trichloropropane
Concen: 49.247 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. -0.15 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Tgt Ion: 75 Resp: 5812
Ion Ratio Lower Upper
75 100
77 2.6 0.0 0.0#





#78

n-propylbenzene

Concen: 4.338 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VY001725.D

Acq: 20 Feb 2020 16:04

Instrument :

MSVOA_Y

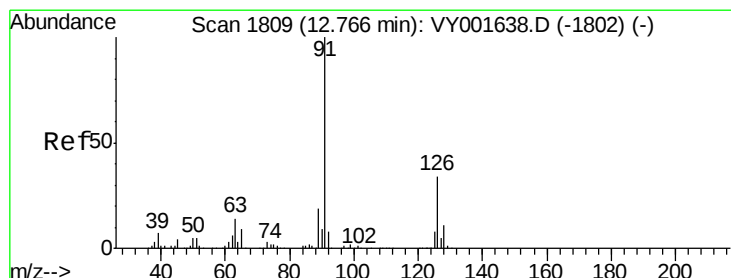
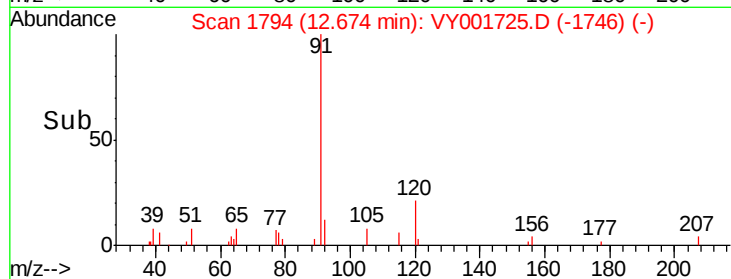
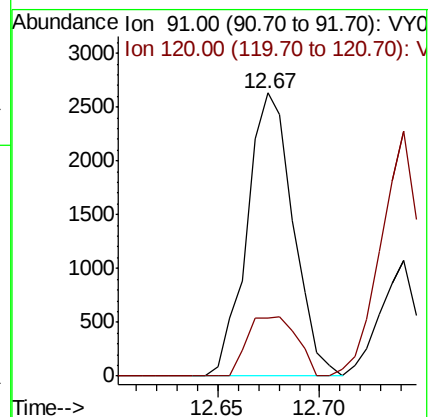
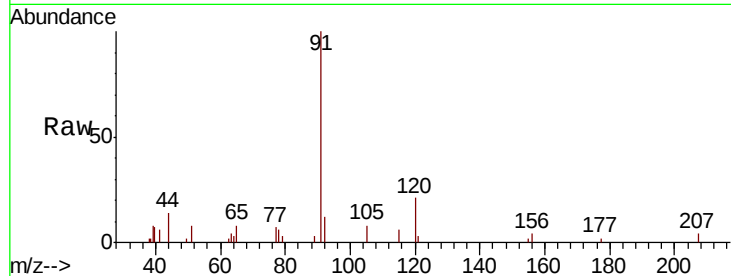
ClientSampleId :

Tot Ion: 91 Resp: 4141

Ion Ratio Lower Upper

91 100

120 22.5 11.1 33.1



#79

2-Chlorotoluene

Concen: 3.280 ug/l

RT: 12.74 min Scan# 1805

Delta R.T. -0.02 min

Lab File: VY001725.D

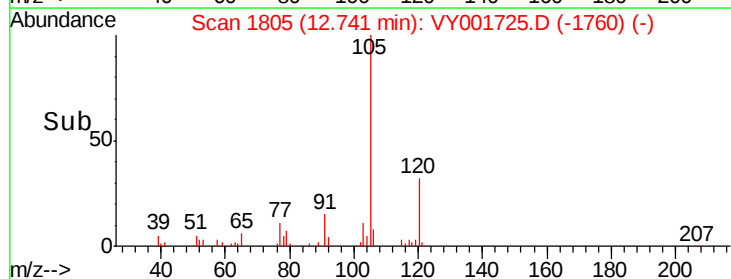
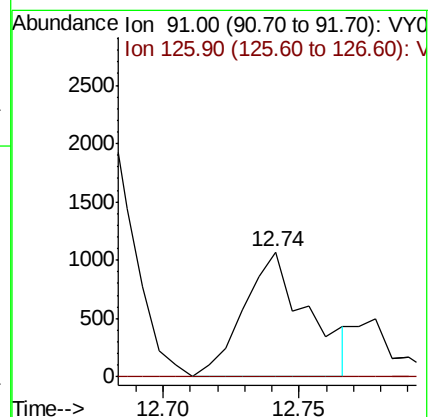
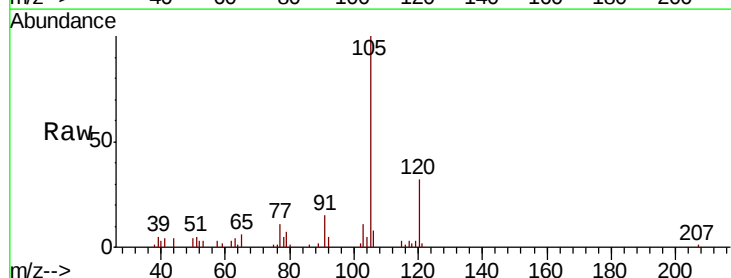
Acq: 20 Feb 2020 16:04

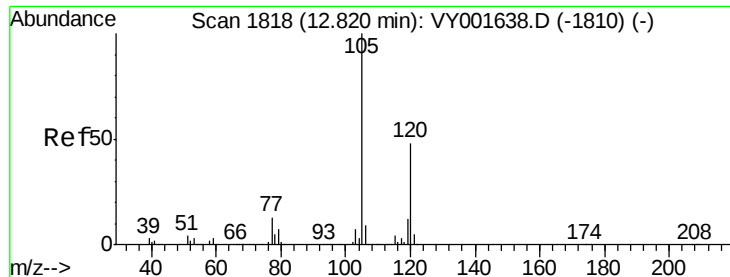
Tgt Ion: 91 Resp: 1756

Ion Ratio Lower Upper

91 100

126 0.0 16.2 48.6#



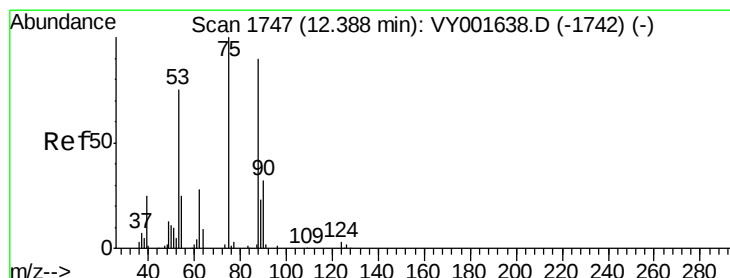
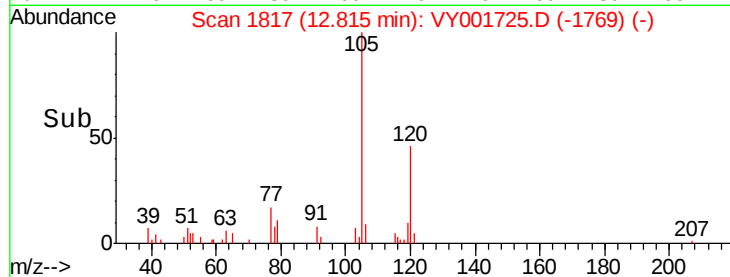
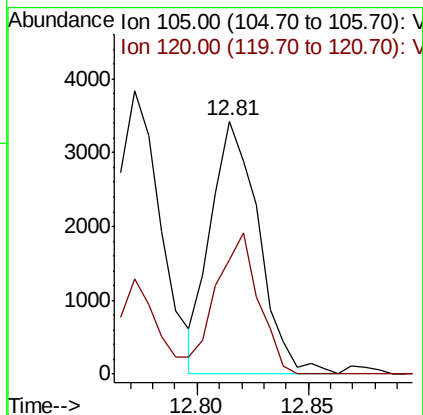
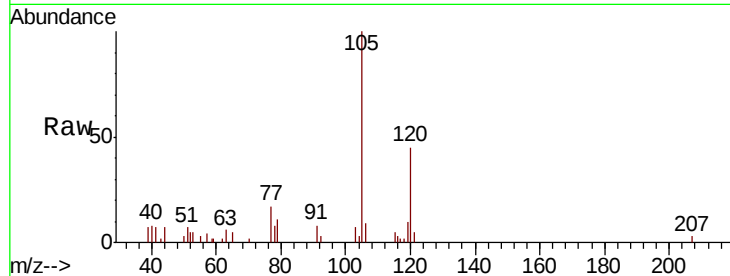


#80

1,3,5-Trimethylbenzene
Concen: 7.916 ug/l
RT: 12.81 min Scan# 1817
Delta R.T. -0.01 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Instrument :
MSVOA_Y
ClientSampled :

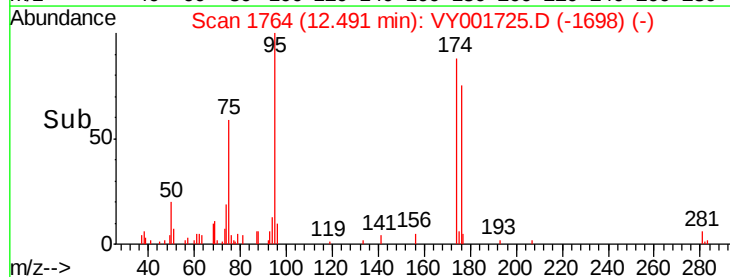
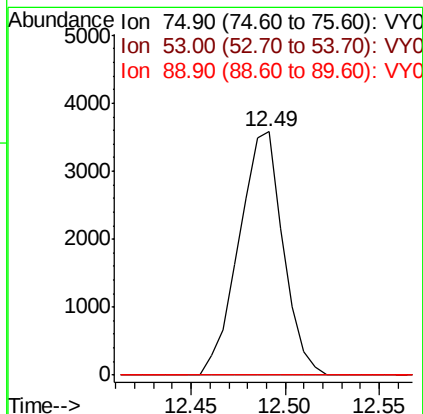
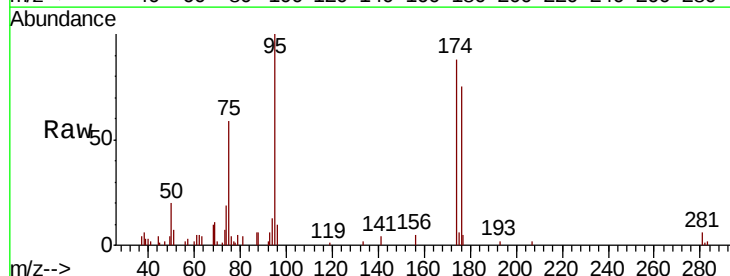
Tot Ion:105 Resp: 5136
Ion Ratio Lower Upper
105 100
120 49.1 24.3 72.9

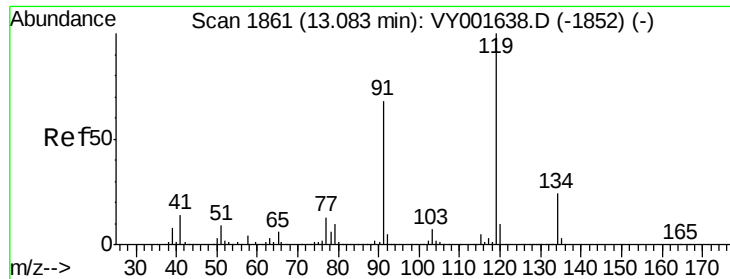


#81

trans-1,4-Dichloro-2-butene
Concen: 93.430 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.10 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Tgt Ion: 75 Resp: 5812
Ion Ratio Lower Upper
75 100
53 0.0 64.5 96.7#
89 0.0 36.3 54.5#

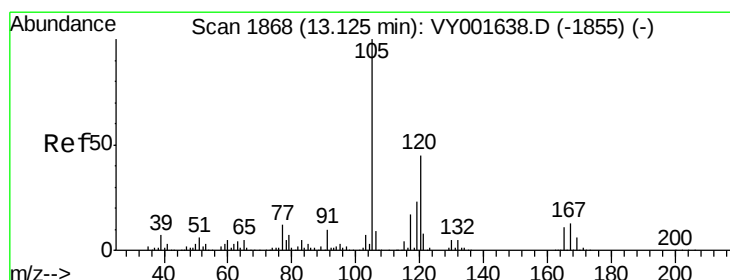
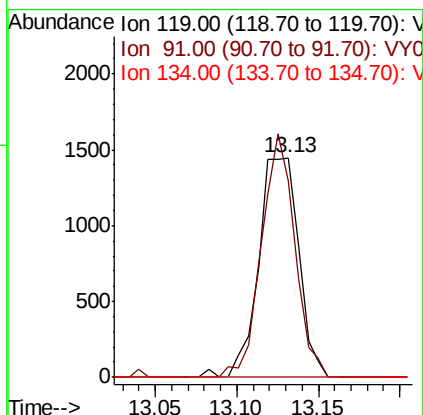
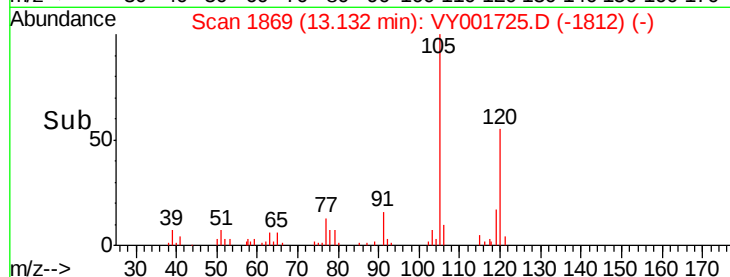
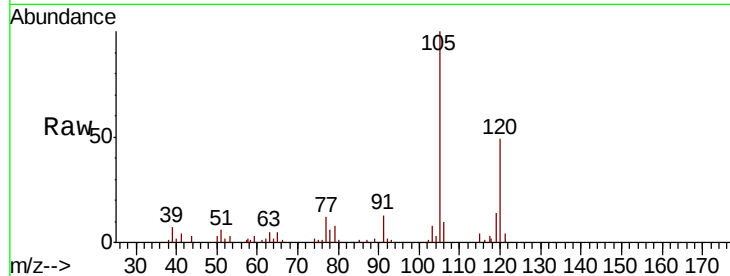




#83
tert-Butylbenzene
Concen: 4.548 ug/l
RT: 13.13 min Scan# 1869
Delta R.T. 0.05 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

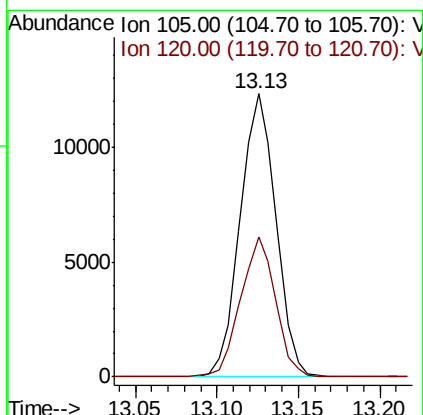
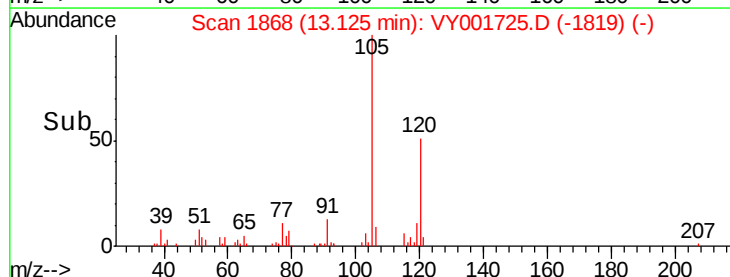
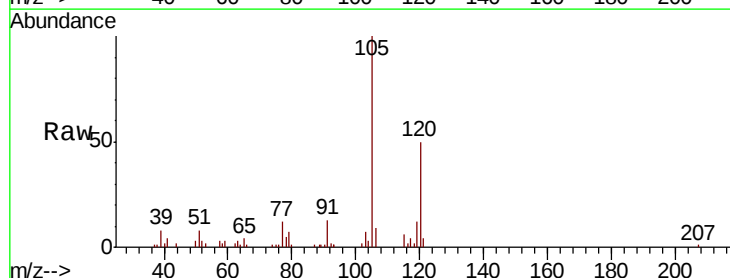
Instrument :
MSVOA_Y
ClientSampleId :

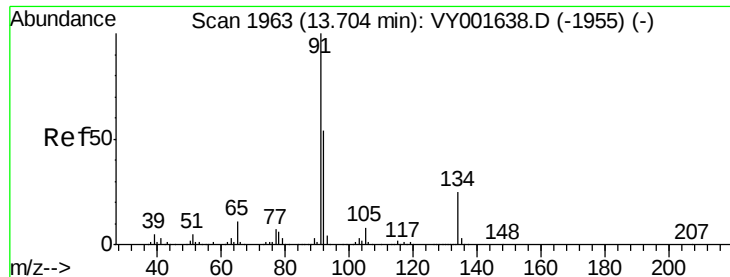
Tot Ion:119 Resp: 2468
Ion Ratio Lower Upper
119 100
91 92.0 33.5 100.5
134 0.0 13.3 39.8#



#84
1,2,4-Trimethylbenzene
Concen: 29.125 ug/l
RT: 13.13 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VY001725.D
Acq: 20 Feb 2020 16:04

Tgt Ion:105 Resp: 18838
Ion Ratio Lower Upper
105 100
120 48.3 22.4 67.3





#89

n-Butylbenzene

Concen: 1.177 ug/l

RT: 13.70 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VY001725.D

Acq: 20 Feb 2020 16:04

Instrument :

MSVOA_Y

ClientSampled :

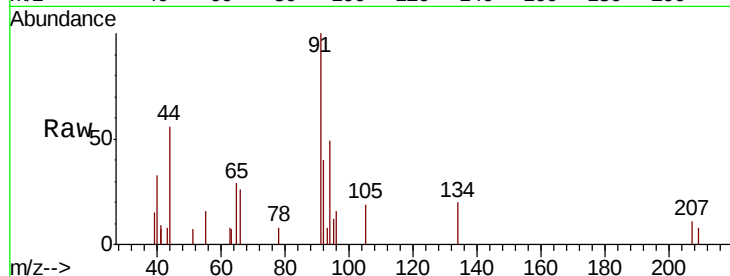
Tot Ion: 91 Resp: 834

Ion Ratio Lower Upper

91 100

92 67.9 27.5 82.4

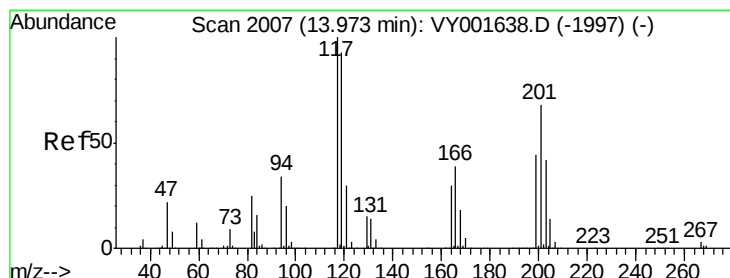
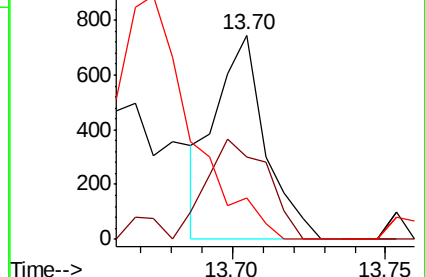
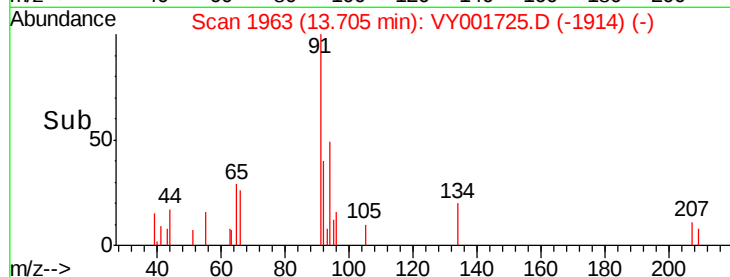
134 0.0 12.4 37.4#



Abundance Ion 91.00 (90.70 to 91.70): VY001725.D (-1914) (-)

Ion 92.00 (91.70 to 92.70): VY001725.D (-1914) (-)

Ion 134.00 (133.70 to 134.70): VY001725.D (-1914) (-)



#90

Hexachloroethane

Concen: 1.700 ug/l

RT: 14.04 min Scan# 2018

Delta R.T. 0.07 min

Lab File: VY001725.D

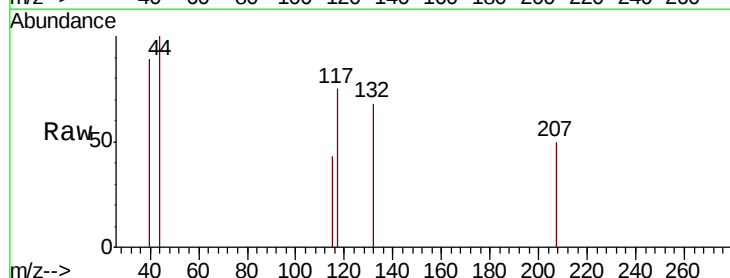
Acq: 20 Feb 2020 16:04

Tgt Ion: 117 Resp: 222

Ion Ratio Lower Upper

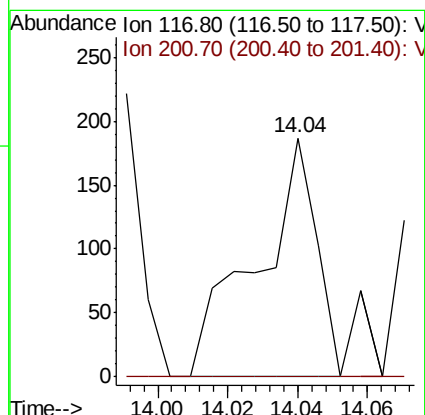
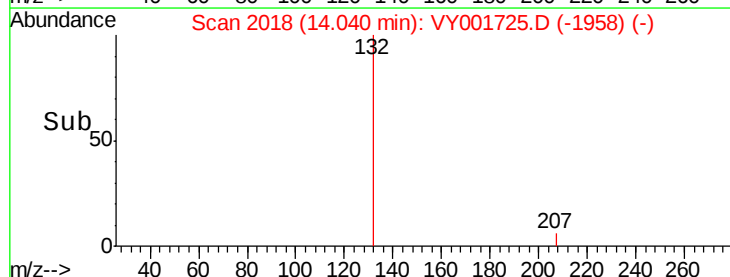
117 100

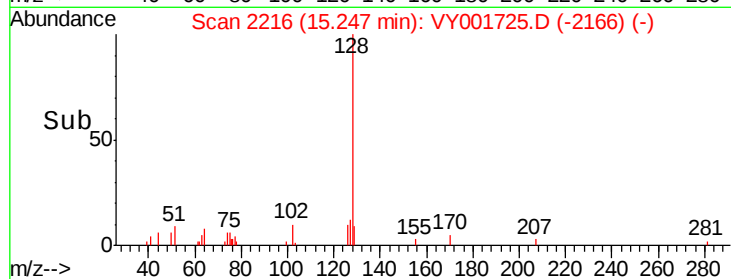
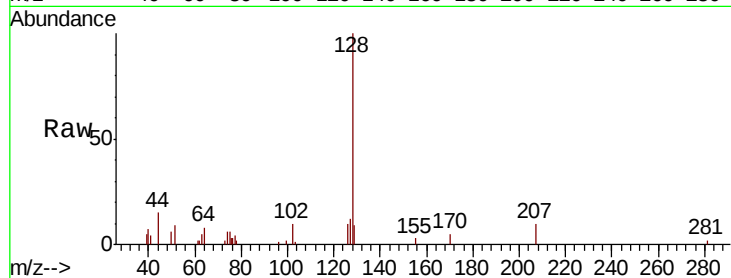
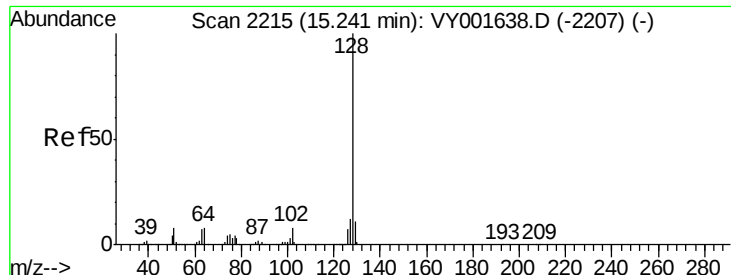
201 0.0 32.5 97.4#



Abundance Ion 116.80 (116.50 to 117.50): VY001725.D (-1958) (-)

Ion 200.70 (200.40 to 201.40): VY001725.D (-1958) (-)





#95

Naphthalene

Concen: 15.156 ug/l

RT: 15.25 min Scan# 2216

Delta R.T. 0.01 min

Lab File: VY001725.D

Acq: 20 Feb 2020 16:04

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion:128 Resp: 7042

Ion Ratio Lower Upper

128 100

127 13.3 9.9 14.9

129 11.4 8.6 13.0

