

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY021220\
 Data File : VY001613.D
 Acq On : 12 Feb 2020 15:09
 Operator : SY/MD
 Sample : L1509-04
 Misc : 7.11G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 13 07:45:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y020420S.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 04 15:10:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	160713	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	289647	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	242599	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	90389	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	91862	56.77	ug/l	0.00
Spiked Amount			Recovery	=	113.54%	
35) Dibromofluoromethane	7.74	113	82717	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
50) Toluene-d8	10.19	98	343679	54.39	ug/l	0.00
Spiked Amount			Recovery	=	108.78%	
62) 4-Bromofluorobenzene	12.49	95	102814	41.30	ug/l	0.00
Spiked Amount			Recovery	=	82.60%	

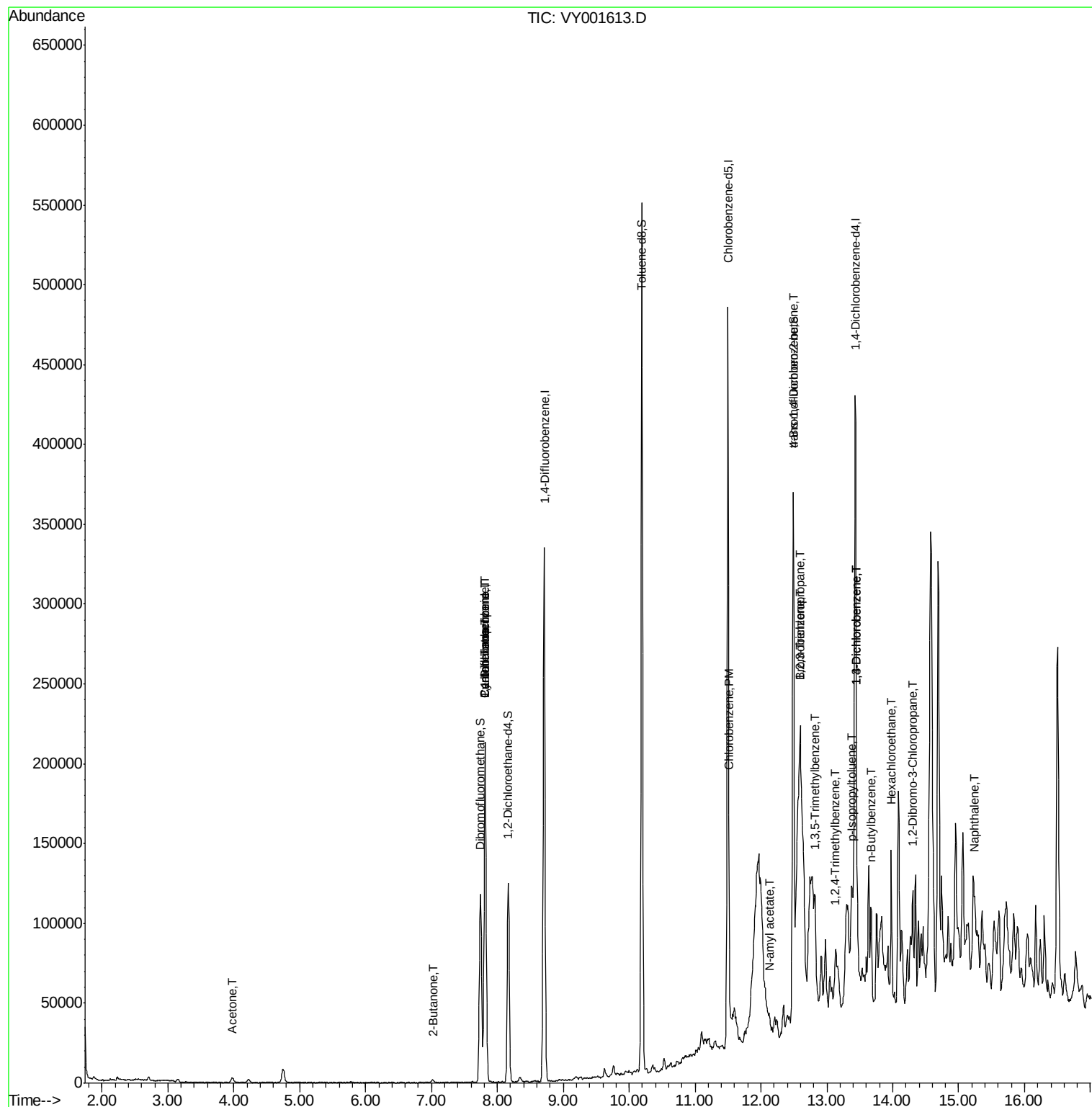
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.00	59	191	Below Cal	#	76
16) Acetone	3.97	43	5708	12.195	ug/l	95
20) Methylene Chloride	4.74	84	6281	Below Cal		96
25) 2-Butanone	7.03	43	1174	1.933	ug/l	95
31) Cyclohexane	7.82	56	3897	1.237	ug/l #	5
36) 1,1-Dichloropropene	7.81	75	12635	4.768	ug/l #	49
38) Carbon Tetrachloride	7.82	117	15872	6.191	ug/l #	16
65) Chlorobenzene	11.52	112	4804	1.009	ug/l	95
74) N-amyl acetate	12.13	43	2561	1.430	ug/l #	41
76) 1,2,3-Trichloropropane	12.59	75	4555	4.686	ug/l #	100
77) Bromobenzene	12.59	156	261264	175.122	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.82	105	13230	2.279	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.49	75	52970	105.442	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.13	105	6310	1.098	ug/l	98
86) p-Isopropyltoluene	13.38	119	11724	1.928	ug/l	95
87) 1,3-Dichlorobenzene	13.45	146	16202	5.667	ug/l	93
88) 1,4-Dichlorobenzene	13.45	146	16202	5.656	ug/l	91
89) n-Butylbenzene	13.67	91	7538	1.257	ug/l #	1
90) Hexachloroethane	13.98	117	3488	2.989	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.31	75	673	2.783	ug/l #	19
95) Naphthalene	15.25	128	21020	5.122	ug/l	96

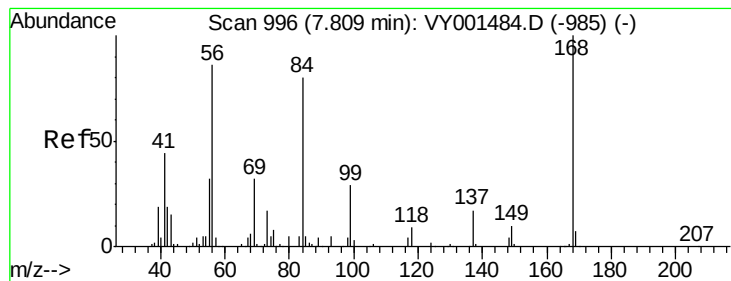
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Feb 04 15:10:08 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

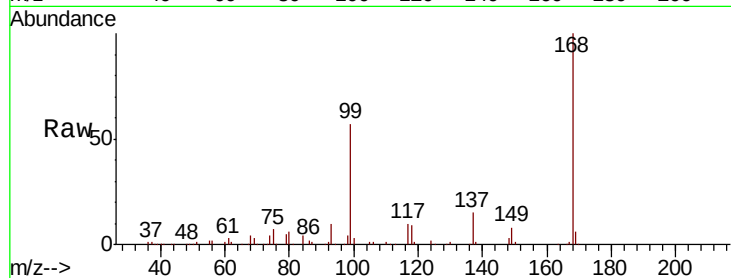
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 160713

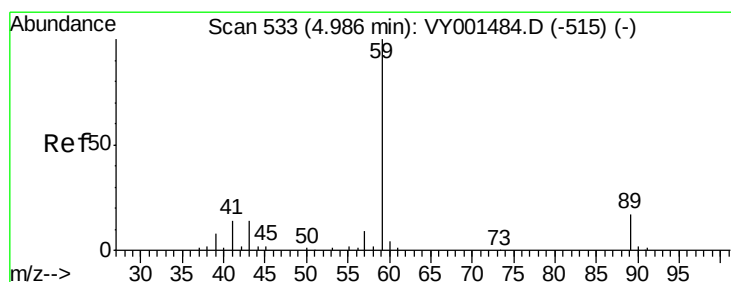
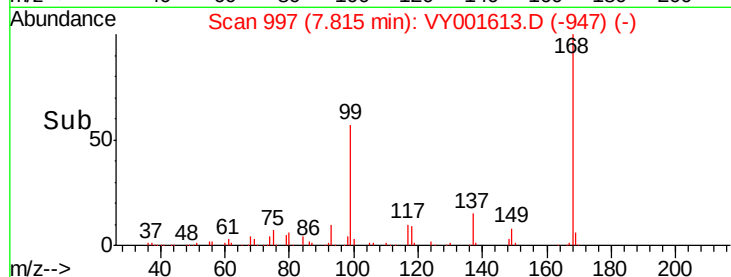
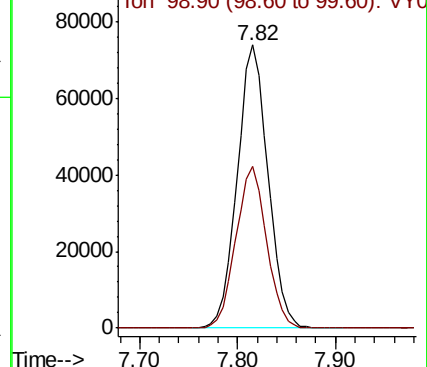
Ion Ratio Lower Upper

168 100

99 57.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VY001613.D (-947) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.00 min Scan# 535

Delta R.T. 0.01 min

Lab File: VY001613.D

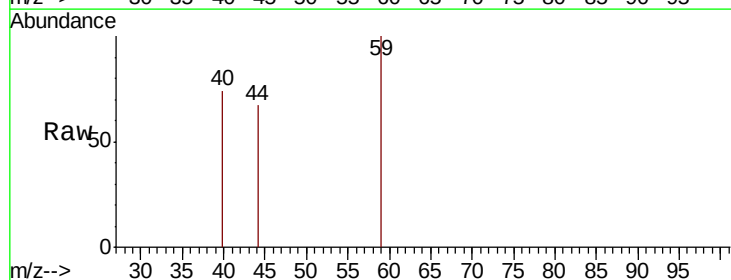
Acq: 12 Feb 2020 15:09

Tgt Ion: 59 Resp: 191

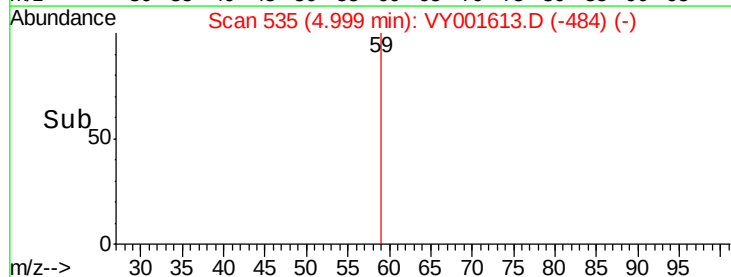
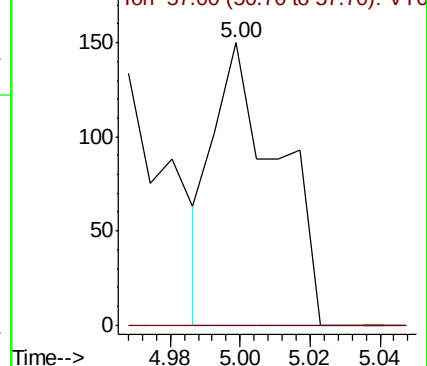
Ion Ratio Lower Upper

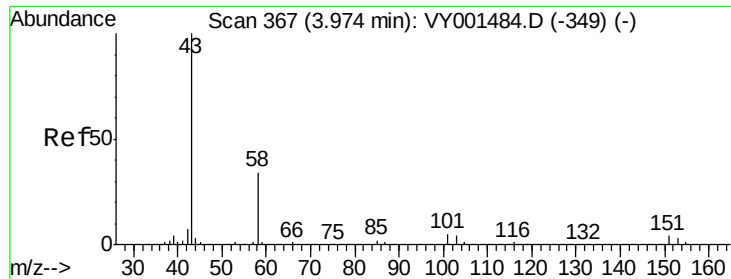
59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VY001613.D (-484) (-)





#16

Acetone

Concen: 12.195 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.01 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA_Y

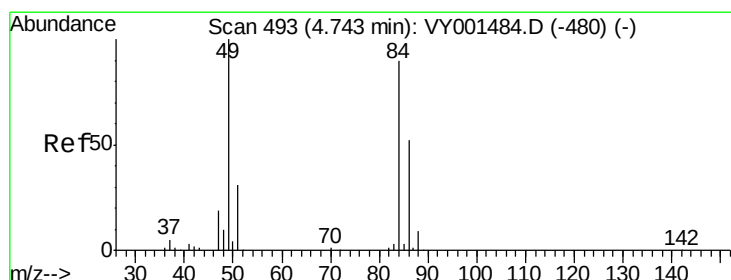
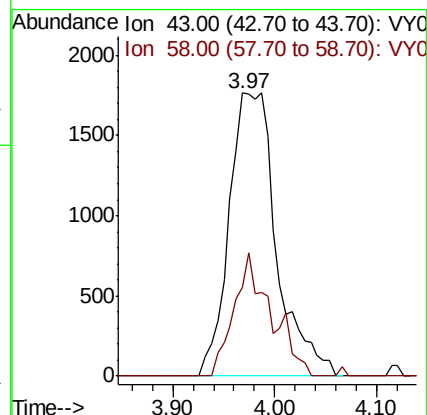
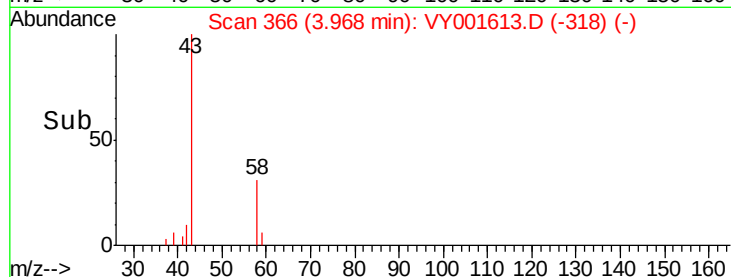
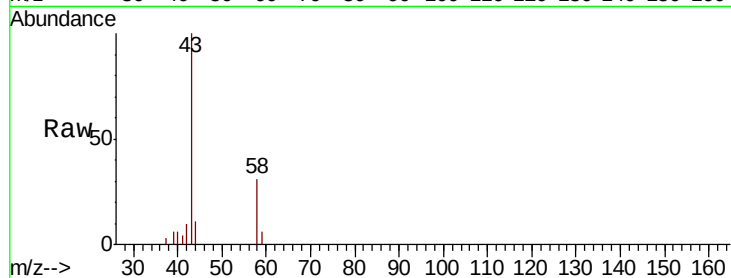
ClientSampleId :

Tot Ion: 43 Resp: 5708

Ion Ratio Lower Upper

43 100

58 31.4 27.5 41.3



#20

Methylene Chloride

Concen: Below Cal

RT: 4.74 min Scan# 493

Delta R.T. 0.00 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

Tgt Ion: 84 Resp: 6281

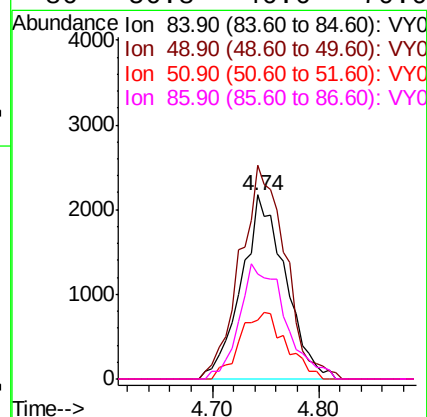
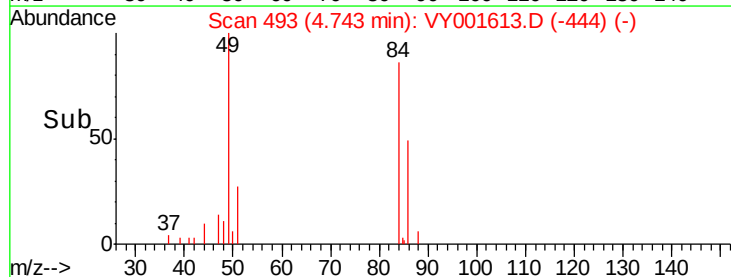
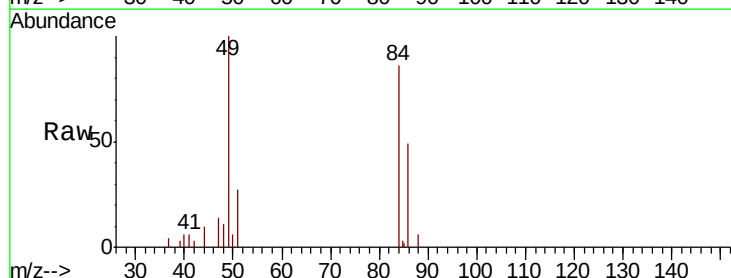
Ion Ratio Lower Upper

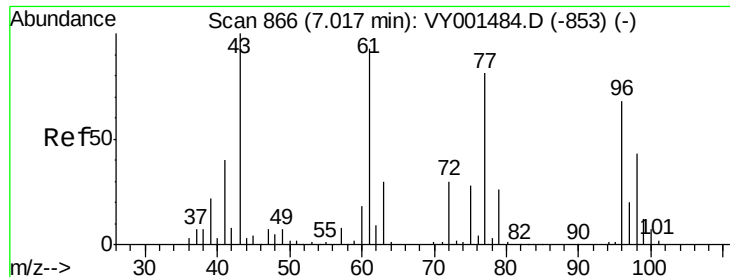
84 100

49 116.2 89.0 133.6

51 31.8 27.4 41.2

86 56.8 46.6 70.0





#25

2-Butanone

Concen: 1.933 ug/l

RT: 7.03 min Scan# 868

Delta R.T. 0.01 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

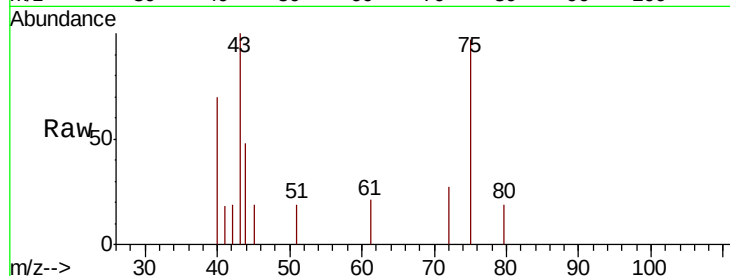
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 43 Resp: 1174

Ion Ratio Lower Upper

43 100

72 27.2 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

7.03

400

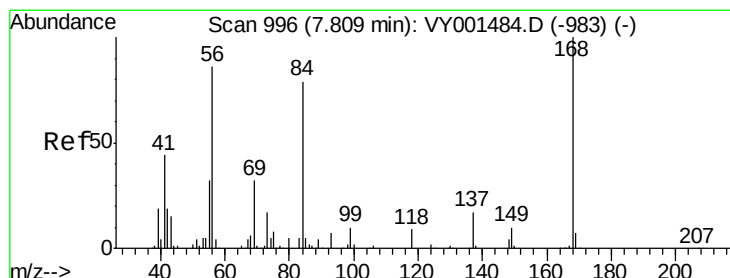
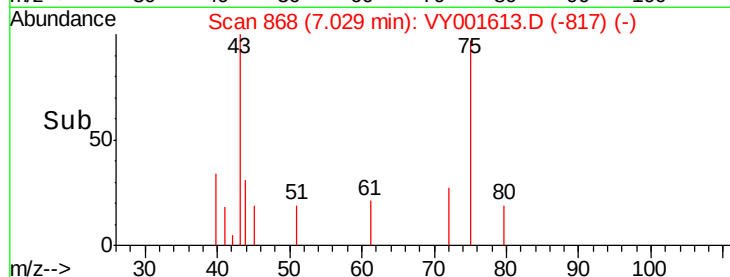
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.237 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

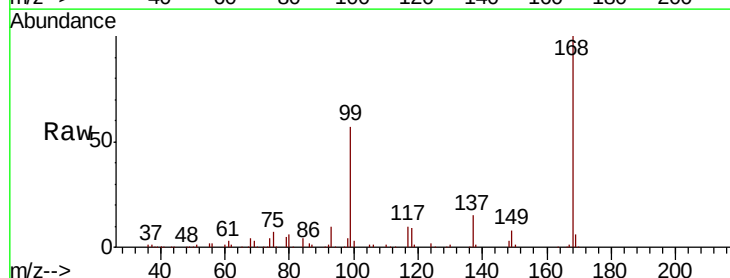
Tgt Ion: 56 Resp: 3897

Ion Ratio Lower Upper

56 100

69 141.8 29.6 44.4#

84 151.4 73.6 110.4#



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

4000

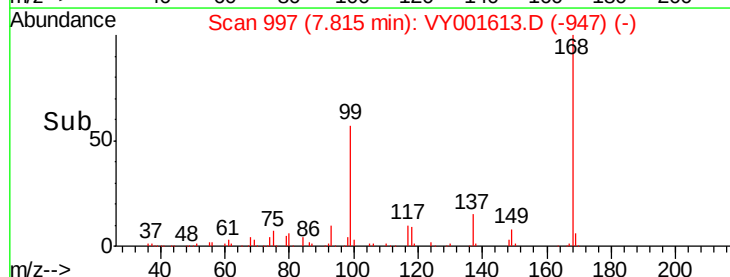
3000

2000

1000

0

Time-->



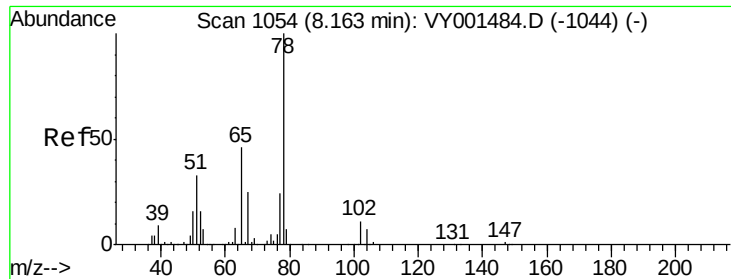
7.82

7.75

7.80

7.85

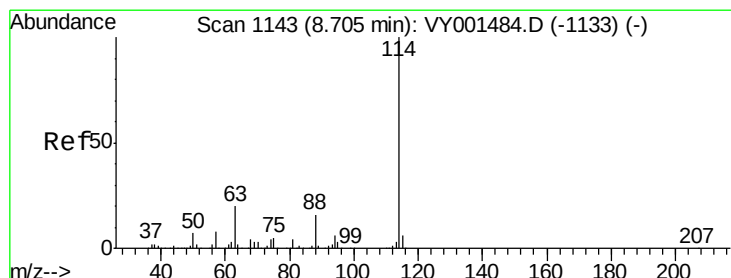
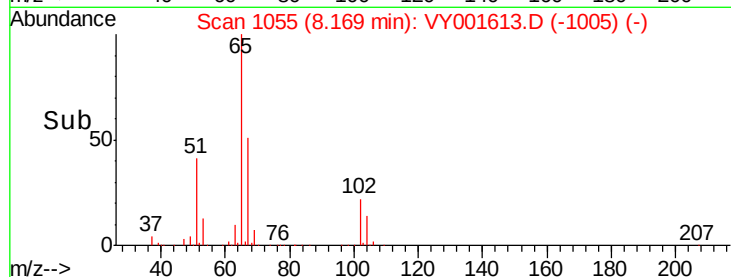
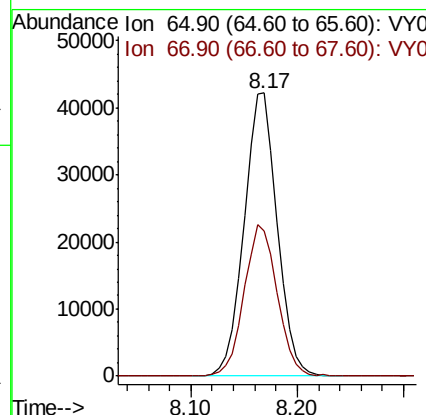
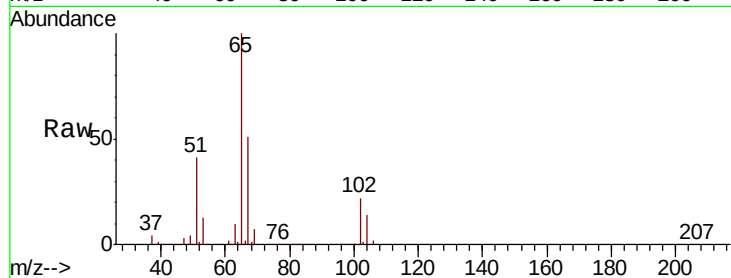
7.90



#33
 1,2-Dichloroethane-d4
 Concen: 56.770 ug/l
 RT: 8.17 min Scan# 1055
 Delta R.T. 0.01 min
 Lab File: VY001613.D
 Acq: 12 Feb 2020 15:09

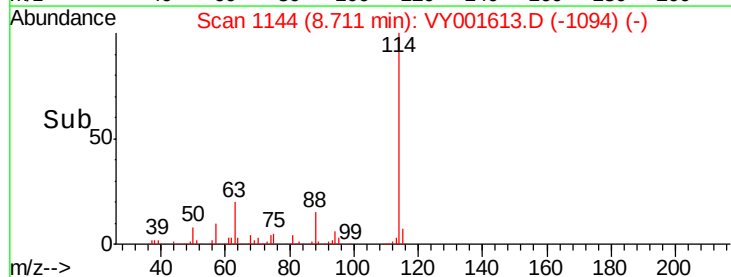
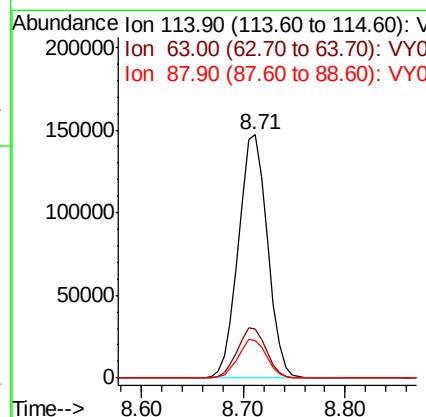
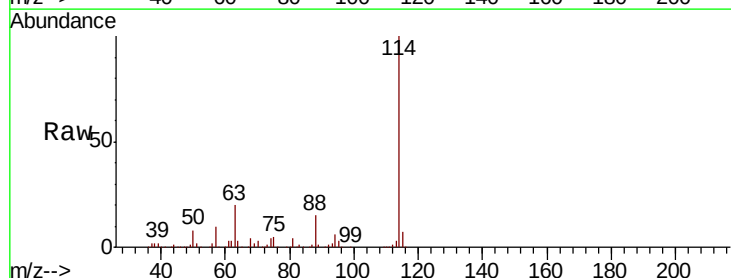
Instrument :
 MSVOA_Y
 ClientSampleId :

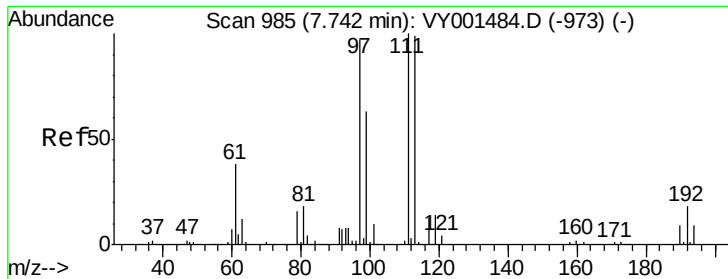
Tot Ion: 65 Resp: 91862
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1144
 Delta R.T. 0.01 min
 Lab File: VY001613.D
 Acq: 12 Feb 2020 15:09

Tgt Ion: 114 Resp: 289647
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.8
 88 15.4 0.0 32.6

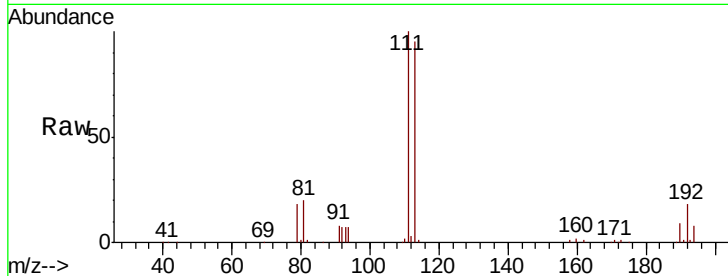




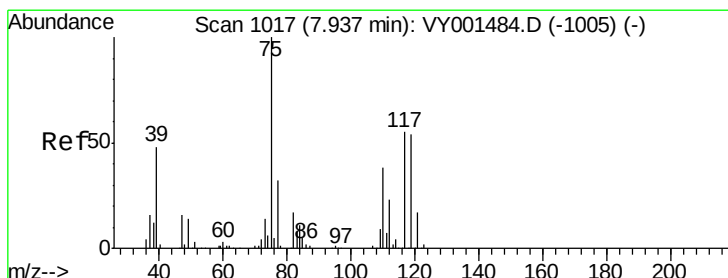
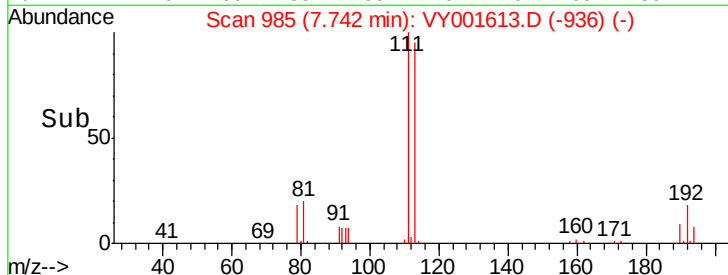
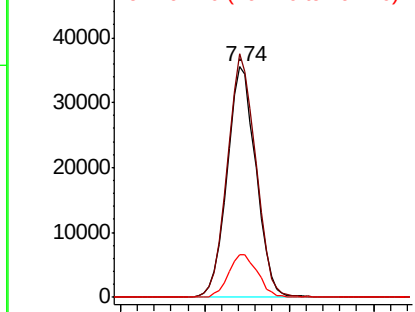
#35
 Dibromofluoromethane
 Concen: 49.524 ug/l
 RT: 7.74 min Scan# 985
 Delta R.T. 0.00 min
 Lab File: VY001613.D
 Acq: 12 Feb 2020 15:09

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:113 Resp: 82717
 Ion Ratio Lower Upper
 113 100
 111 104.0 82.9 124.3
 192 18.6 14.6 22.0

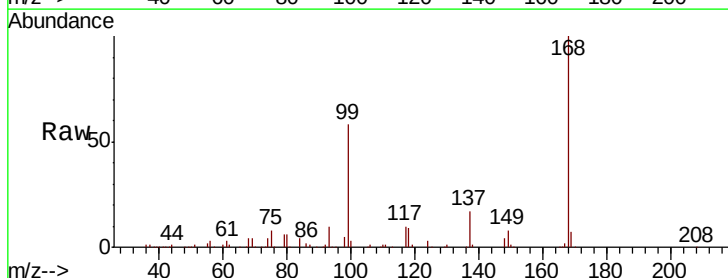


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

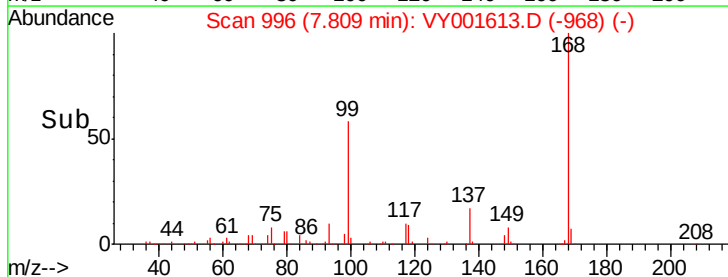
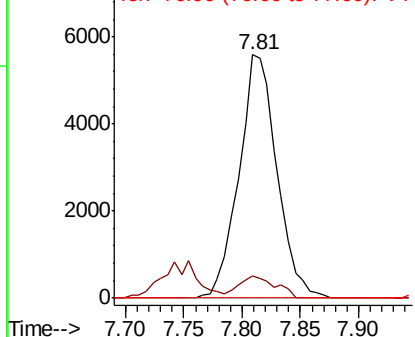


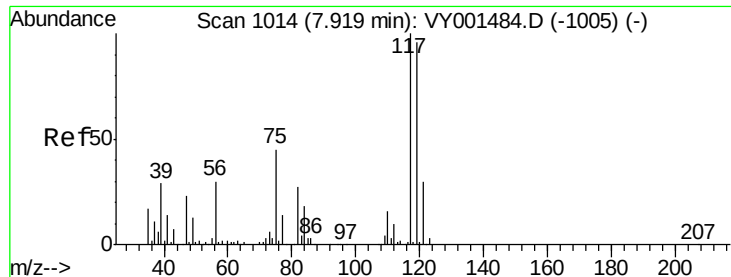
#36
 1,1-Dichloropropene
 Concen: 4.768 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.13 min
 Lab File: VY001613.D
 Acq: 12 Feb 2020 15:09

Tgt Ion: 75 Resp: 12635
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.2 54.6#
 77 0.0 25.0 37.4#



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: 6.191 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.10 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA_Y

ClientSampleId :

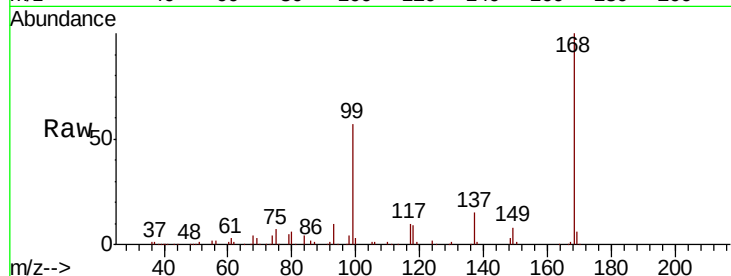
Tot Ion:117 Resp: 15872

Ion Ratio Lower Upper

117 100

119 5.4 76.4 114.6#

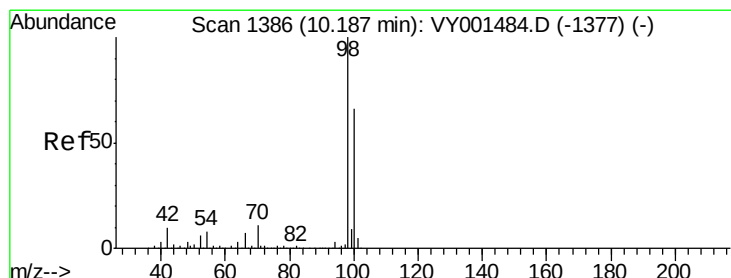
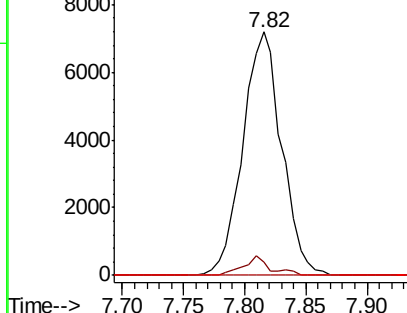
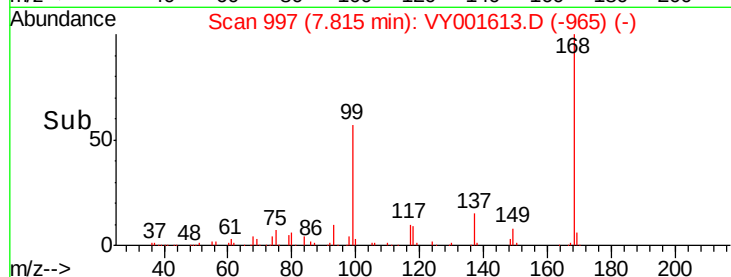
121 0.0 24.2 36.4#



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: 54.386 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001613.D

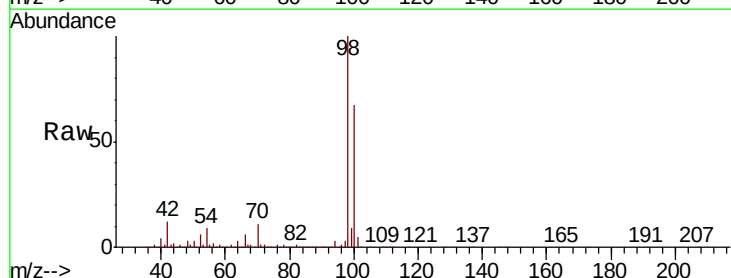
Acq: 12 Feb 2020 15:09

Tgt Ion: 98 Resp: 343679

Ion Ratio Lower Upper

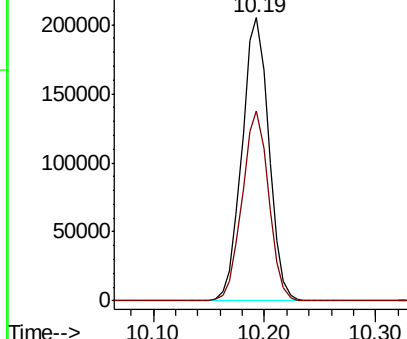
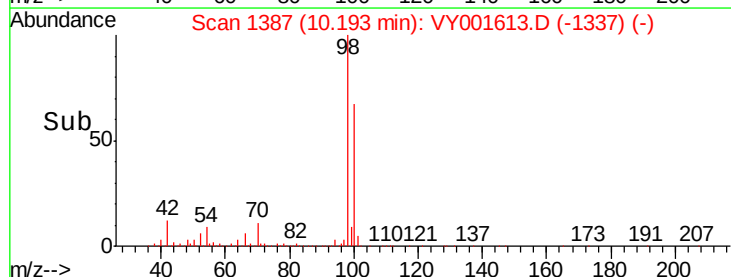
98 100

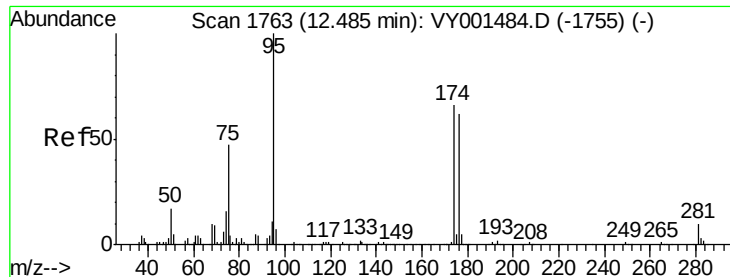
100 66.0 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

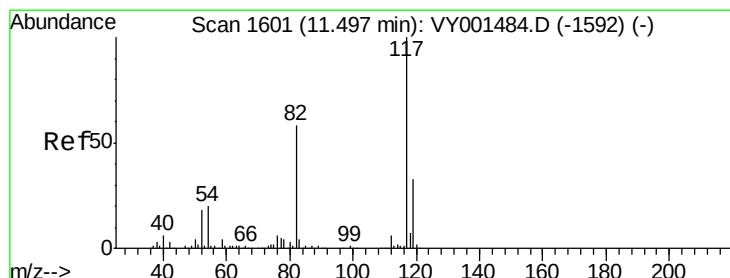
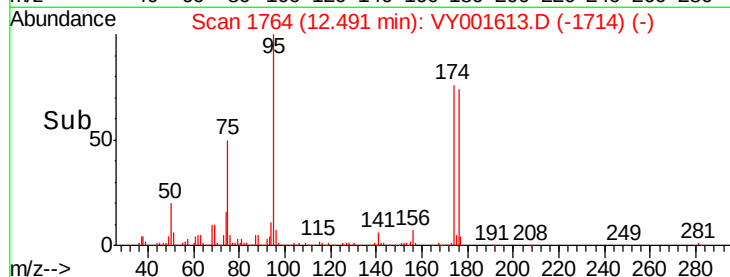
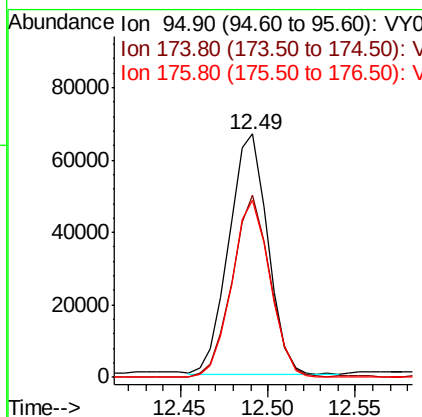
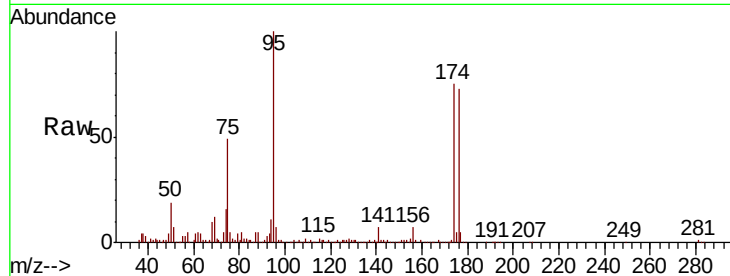




#62
4-Bromofluorobenzene
Concen: 41.300 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.01 min
Lab File: VY001613.D
Acq: 12 Feb 2020 15:09

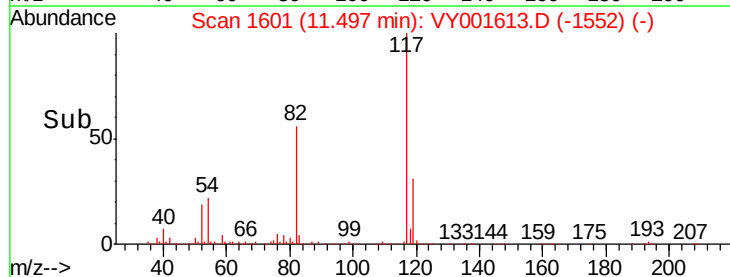
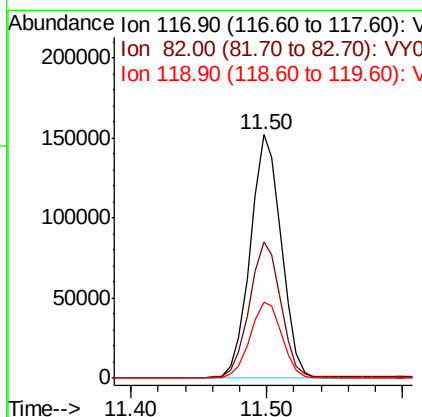
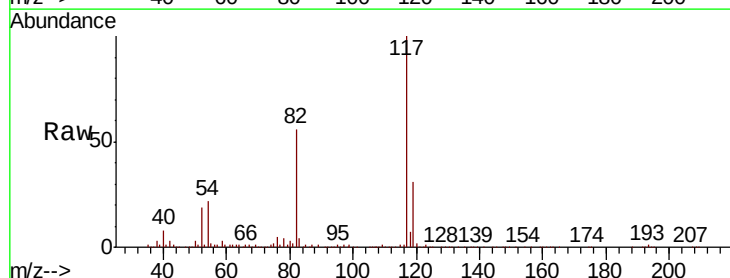
Instrument :
MSVOA_Y
ClientSampleId :

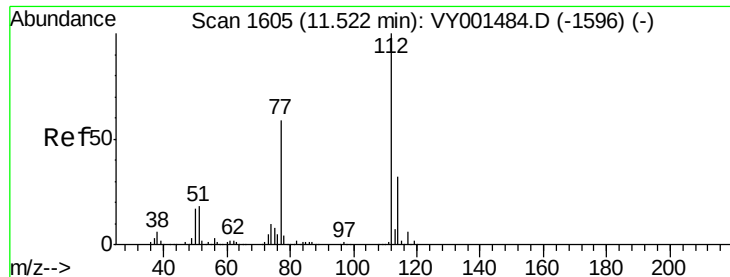
Tot Ion: 95 Resp: 102814
Ion Ratio Lower Upper
95 100
174 73.6 0.0 141.4
176 72.2 0.0 135.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. 0.00 min
Lab File: VY001613.D
Acq: 12 Feb 2020 15:09

Tgt Ion: 117 Resp: 242599
Ion Ratio Lower Upper
117 100
82 55.7 46.1 69.1
119 31.1 26.1 39.1





#65

Chlorobenzene

Concen: 1.009 ug/l

RT: 11.52 min Scan# 1605

Delta R.T. 0.00 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA_Y

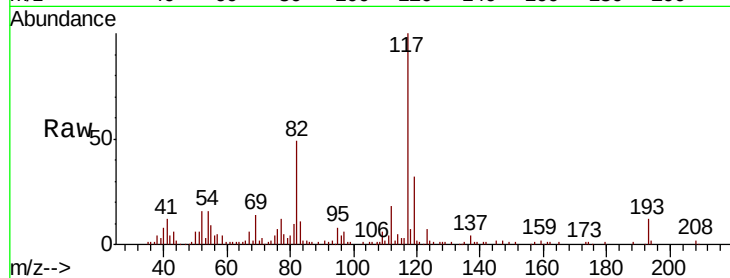
ClientSampleId :

Tot Ion:112 Resp: 4804

Ion Ratio Lower Upper

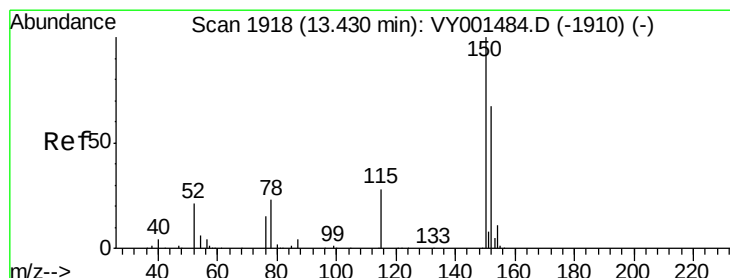
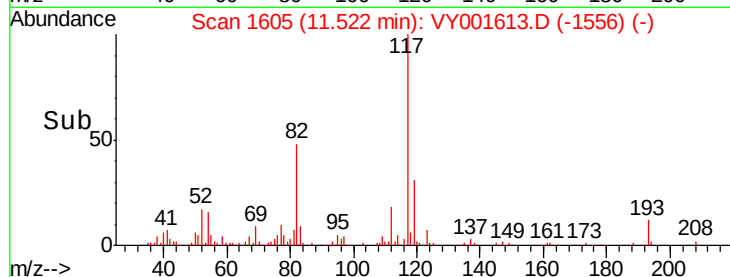
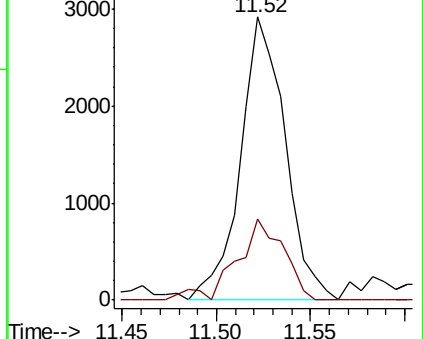
112 100

114 28.8 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VY001613.D

Acq: 12 Feb 2020 15:09

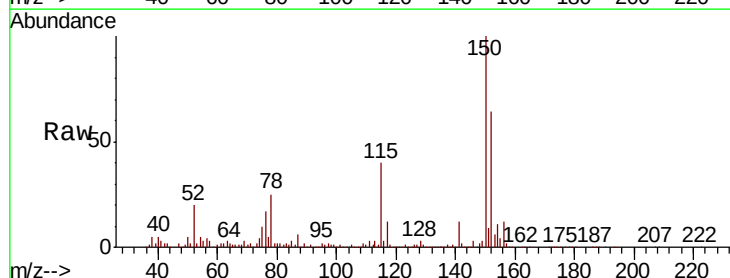
Tgt Ion:152 Resp: 90389

Ion Ratio Lower Upper

152 100

115 74.2 31.4 94.3

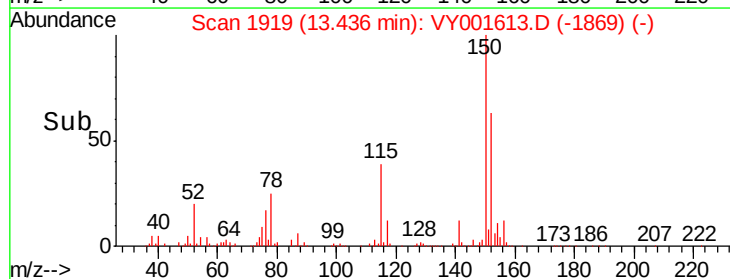
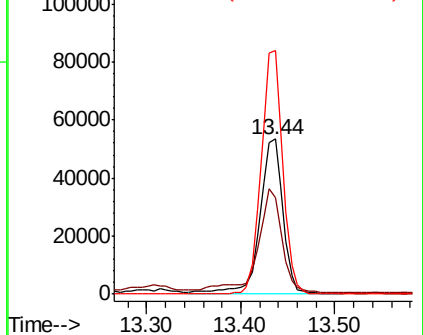
150 148.2 0.0 346.8

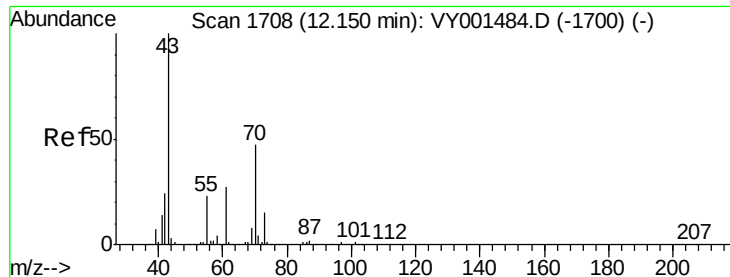


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.430 ug/l

RT: 12.13 min Scan# 1705

Delta R.T. -0.02 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA_Y

ClientSampled :

Tot Ion: 43 Resp: 2561

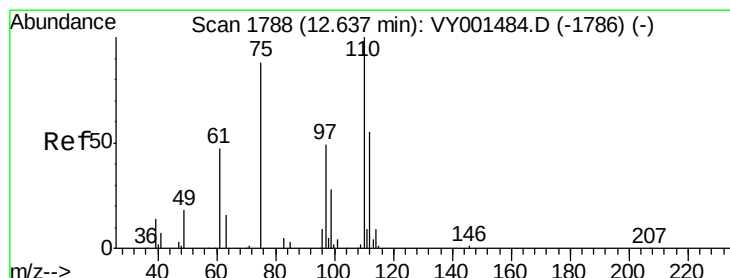
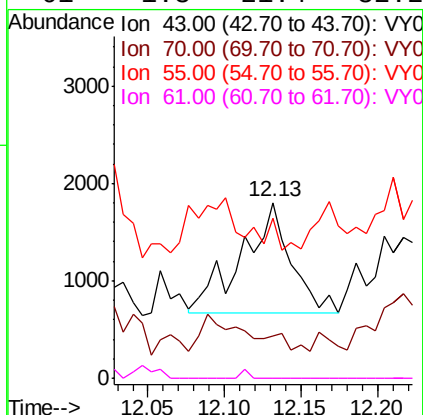
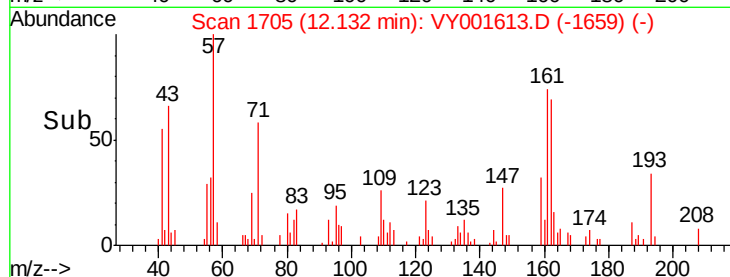
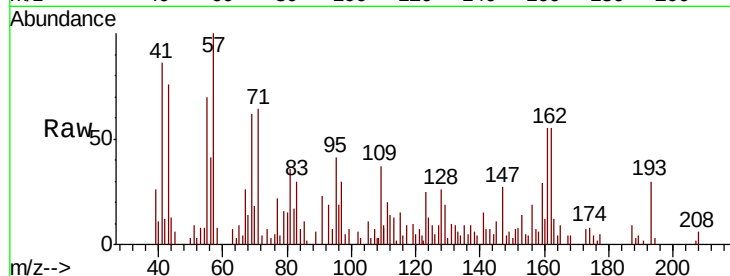
Ion Ratio Lower Upper

43 100

70 0.0 37.2 55.8#

55 0.0 18.8 28.2#

61 1.3 21.4 32.2#



#76

1,2,3-Trichloropropane

Concen: 4.686 ug/l

RT: 12.59 min Scan# 1781

Delta R.T. -0.04 min

Lab File: VY001613.D

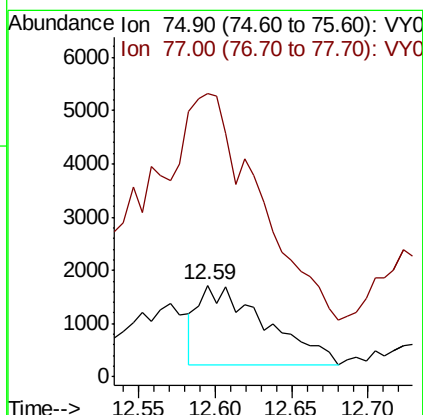
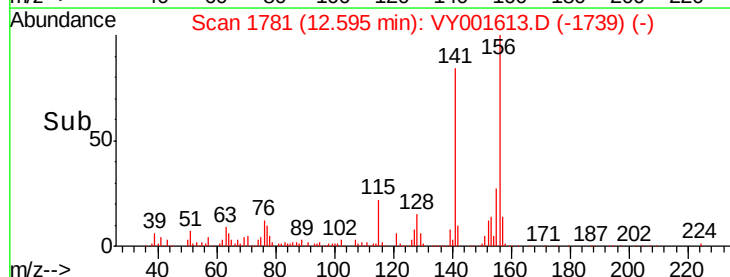
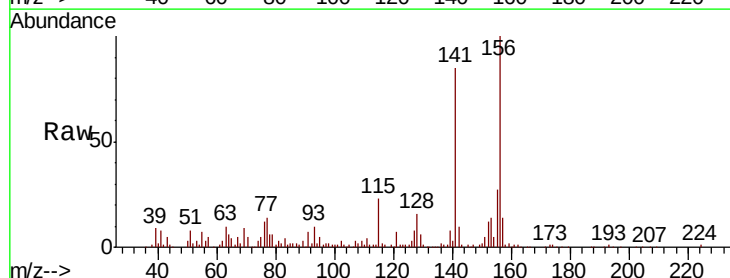
Acq: 12 Feb 2020 15:09

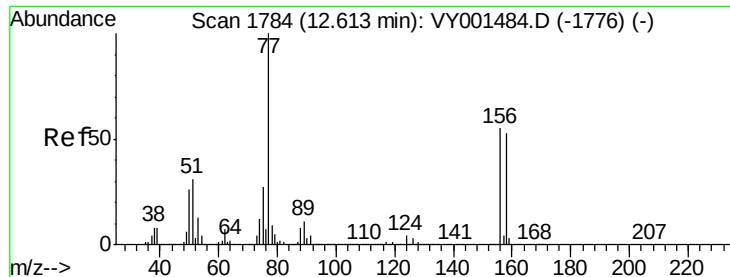
Tgt Ion: 75 Resp: 4555

Ion Ratio Lower Upper

75 100

77 682.2 0.0 0.0#

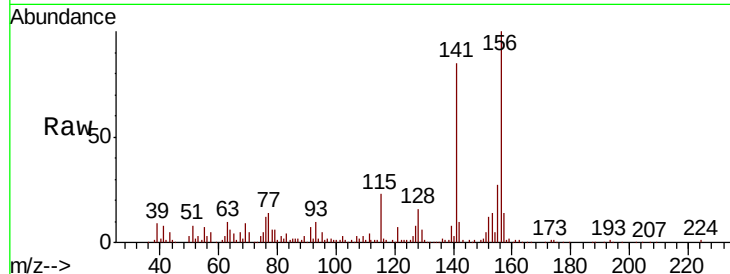




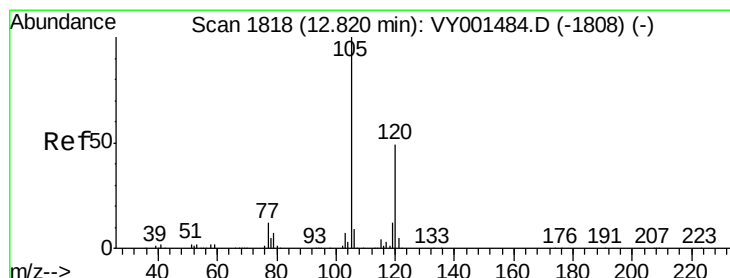
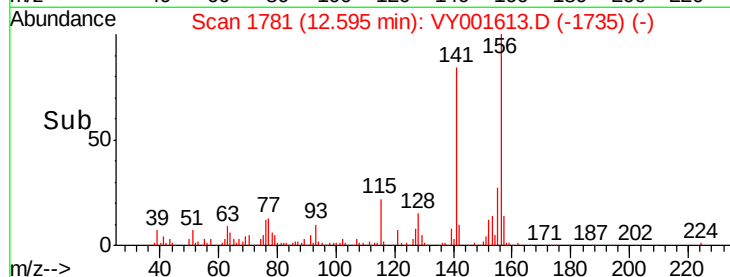
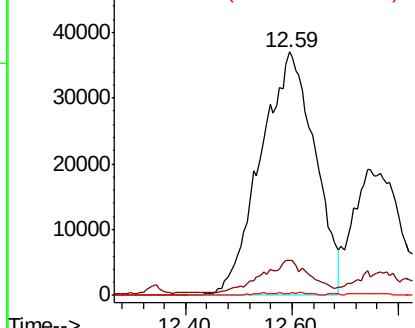
#77
Bromobenzene
Concen: 175.122 ug/l
RT: 12.59 min Scan# 1781
Delta R.T. -0.02 min
Lab File: VY001613.D
Acq: 12 Feb 2020 15:09

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:156 Resp: 261264
Ion Ratio Lower Upper
156 100
77 11.9 99.8 299.3#
158 0.2 47.5 142.6#

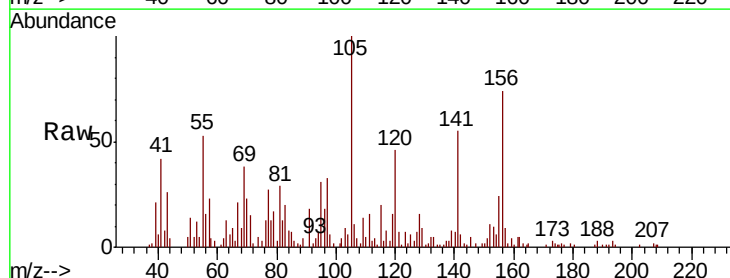


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VY0
Ion 157.80 (157.50 to 158.50): V

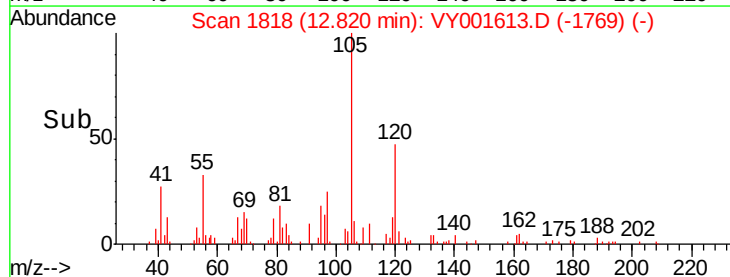
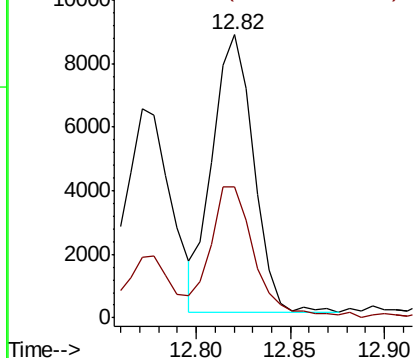


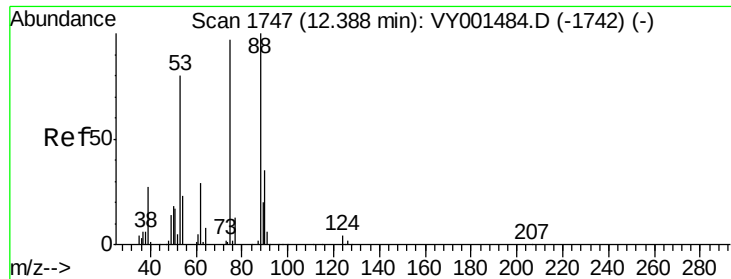
#80
1,3,5-Trimethylbenzene
Concen: 2.279 ug/l
RT: 12.82 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VY001613.D
Acq: 12 Feb 2020 15:09

Tgt Ion:105 Resp: 13230
Ion Ratio Lower Upper
105 100
120 51.1 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 105.442 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA_Y

ClientSampleId :

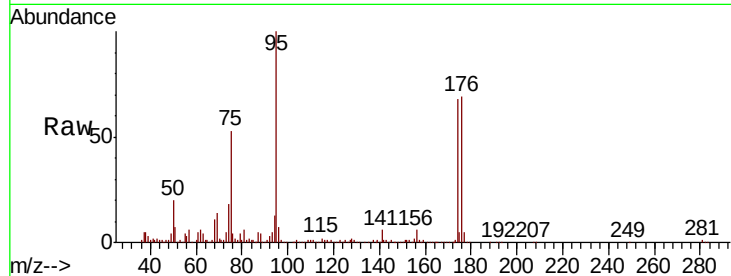
Tot Ion: 75 Resp: 52970

Ion Ratio Lower Upper

75 100

53 0.1 67.7 101.5#

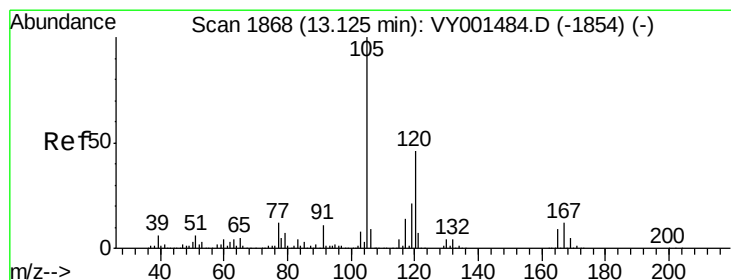
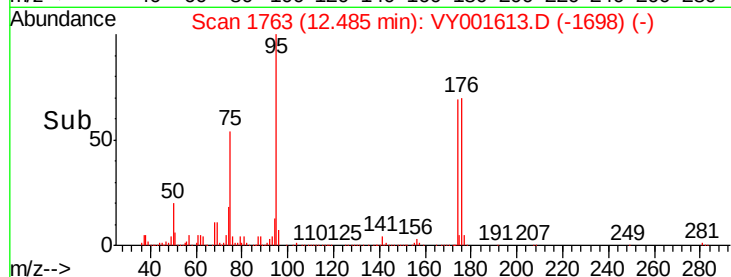
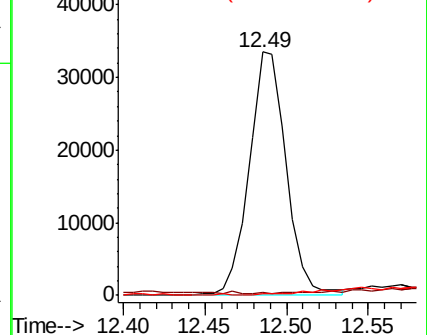
89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VY001613.D (-1742) (-)

Ion 53.00 (52.70 to 53.70): VY001613.D (-1742) (-)

Ion 88.90 (88.60 to 89.60): VY001613.D (-1742) (-)



#84

1,2,4-Trimethylbenzene

Concen: 1.098 ug/l

RT: 13.13 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VY001613.D

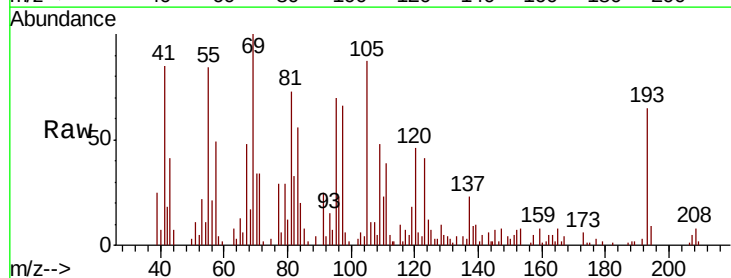
Acq: 12 Feb 2020 15:09

Tgt Ion: 105 Resp: 6310

Ion Ratio Lower Upper

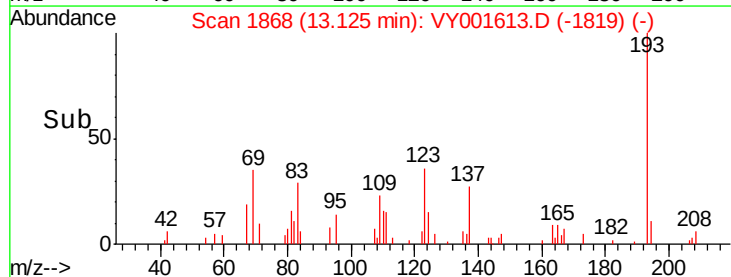
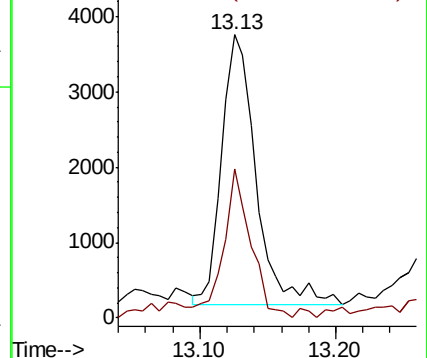
105 100

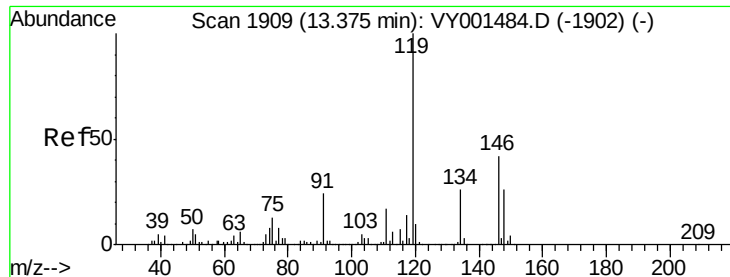
120 43.5 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): VY001613.D (-1819) (-)

Ion 120.00 (119.70 to 120.70): VY001613.D (-1819) (-)

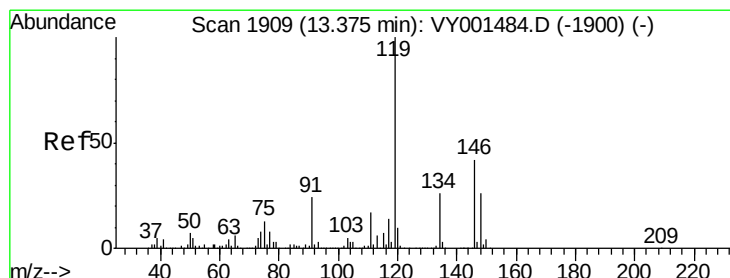
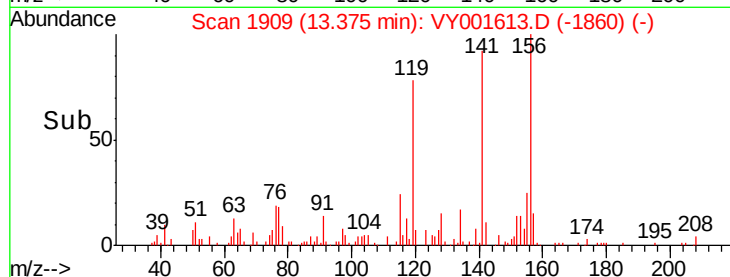
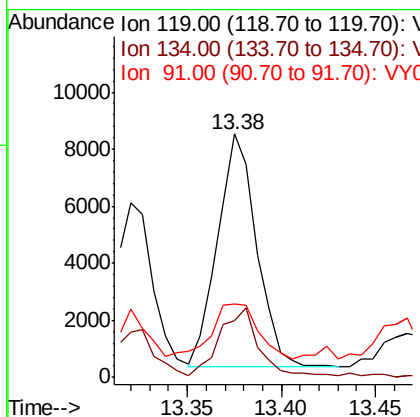
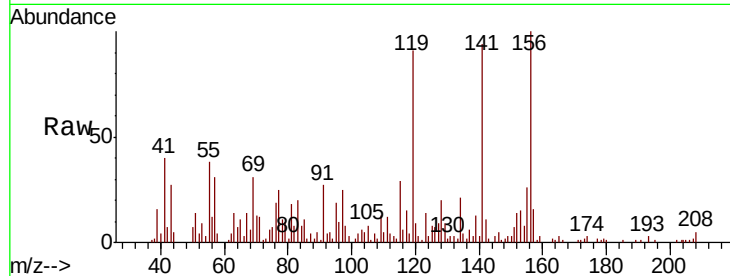




#86
 p-Isopropyltoluene
 Concen: 1.928 ug/l
 RT: 13.38 min Scan# 1909
 Delta R.T. 0.00 min
 Lab File: VY001613.D
 Acq: 12 Feb 2020 15:09

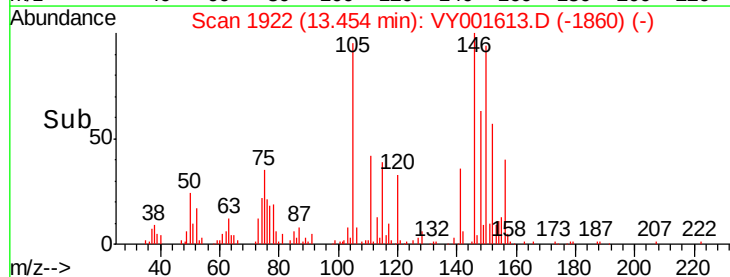
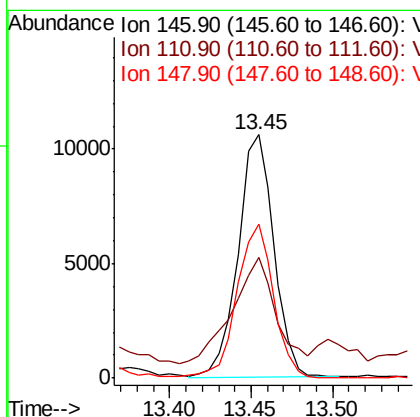
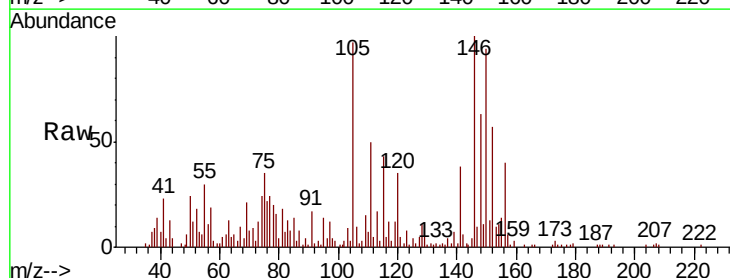
Instrument :
 MSVOA_Y
 ClientSampleId :

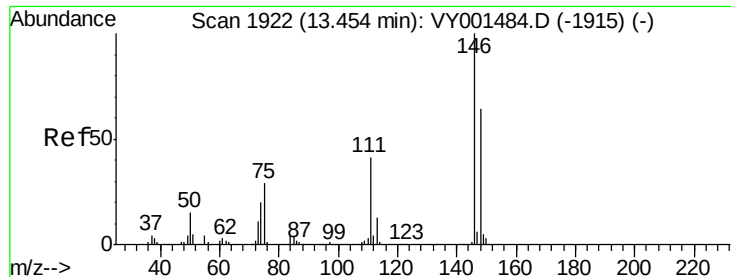
Tot Ion:119 Resp: 11724
 Ion Ratio Lower Upper
 119 100
 134 27.8 13.3 39.8
 91 28.3 12.2 36.6



#87
 1,3-Dichlorobenzene
 Concen: 5.667 ug/l
 RT: 13.45 min Scan# 1922
 Delta R.T. 0.08 min
 Lab File: VY001613.D
 Acq: 12 Feb 2020 15:09

Tgt Ion:146 Resp: 16202
 Ion Ratio Lower Upper
 146 100
 111 51.7 21.3 63.9
 148 65.0 31.9 95.7





#88

1,4-Dichlorobenzene

Concen: 5.656 ug/l

RT: 13.45 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA_Y

ClientSampled :

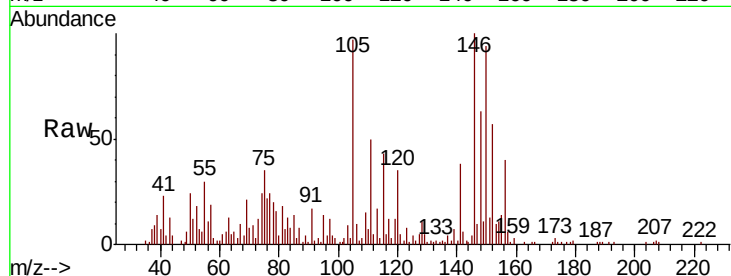
Tot Ion:146 Resp: 16202

Ion Ratio Lower Upper

146 100

111 54.9 20.7 62.1

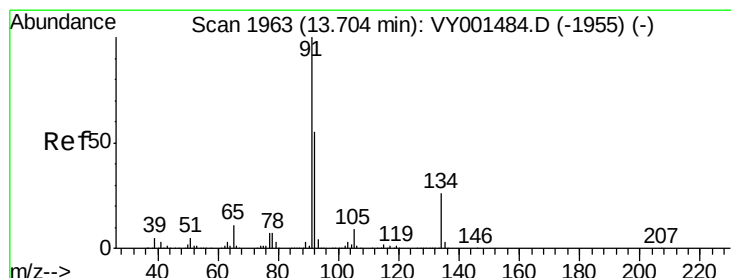
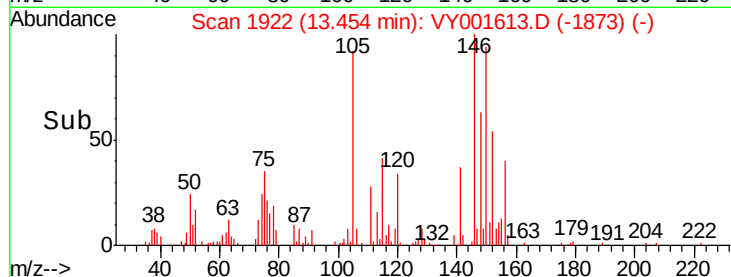
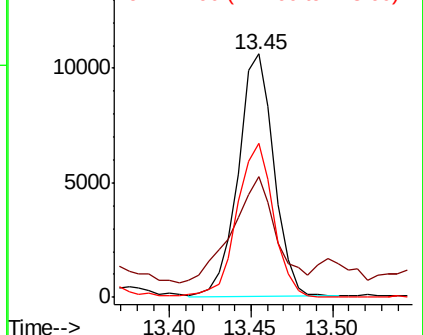
148 65.0 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 1.257 ug/l

RT: 13.67 min Scan# 1957

Delta R.T. -0.04 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

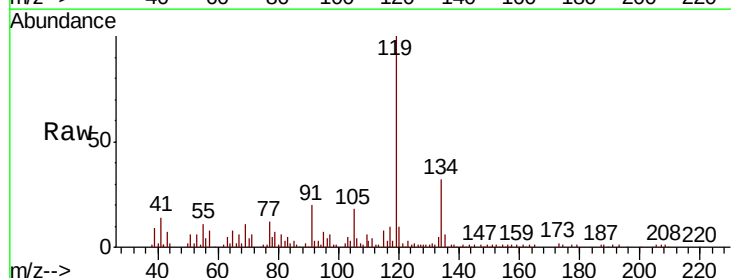
Tgt Ion: 91 Resp: 7538

Ion Ratio Lower Upper

91 100

92 5.1 27.3 81.9#

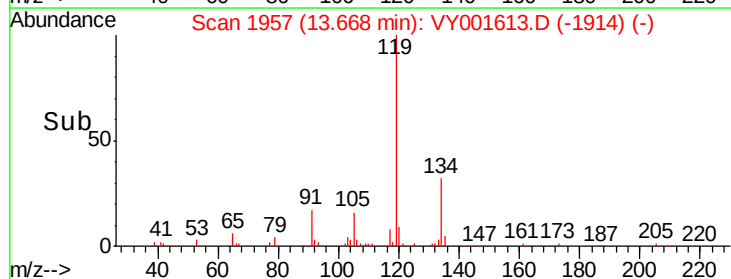
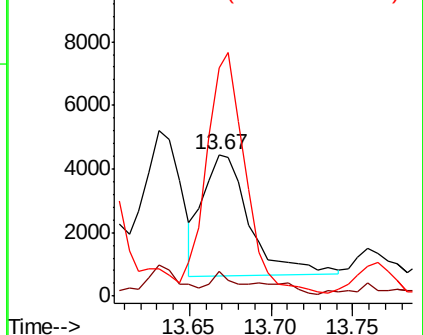
134 165.4 13.0 38.9#

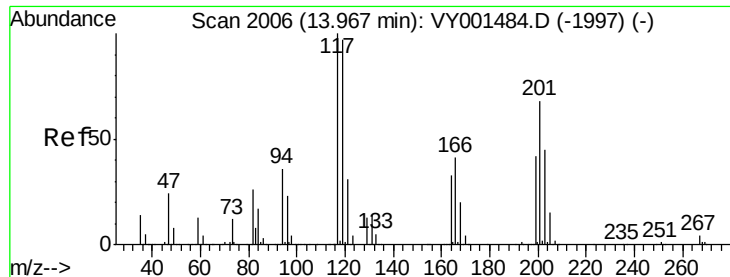


Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 2.989 ug/l

RT: 13.98 min Scan# 2008

Delta R.T. 0.01 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

Instrument :

MSVOA_Y

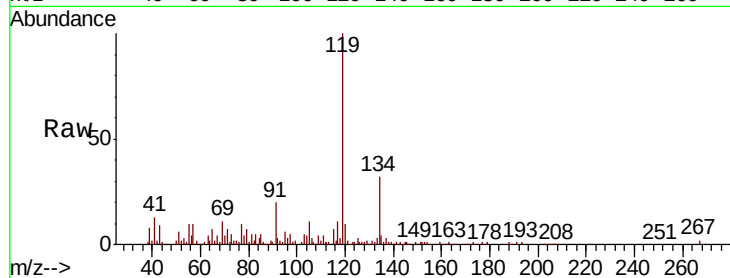
ClientSampleId :

Tot Ion:117 Resp: 3488

Ion Ratio Lower Upper

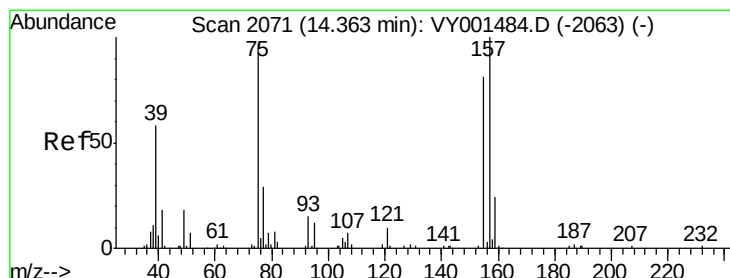
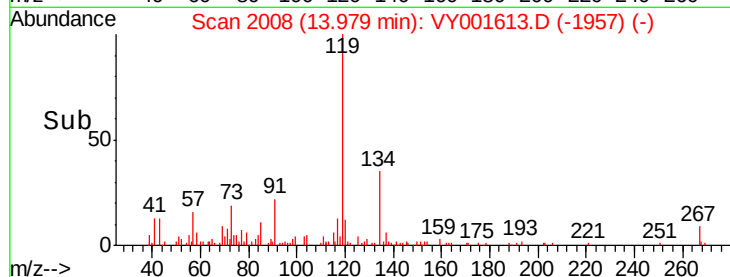
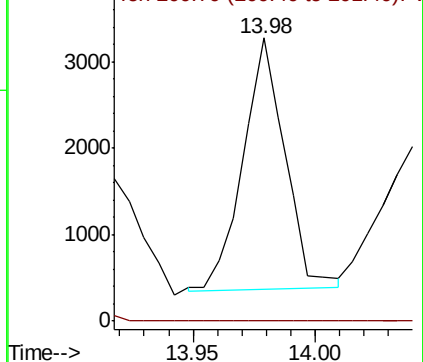
117 100

201 0.0 34.1 102.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.783 ug/l

RT: 14.31 min Scan# 2062

Delta R.T. -0.05 min

Lab File: VY001613.D

Acq: 12 Feb 2020 15:09

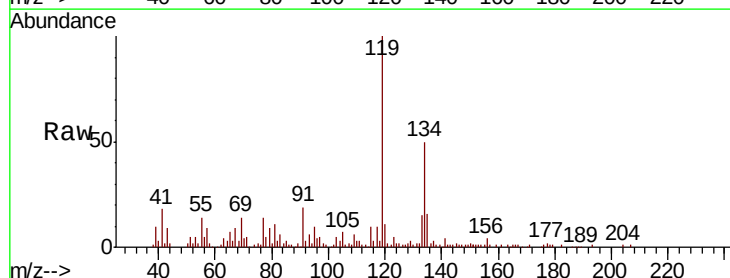
Tgt Ion: 75 Resp: 673

Ion Ratio Lower Upper

75 100

155 0.0 40.7 122.1#

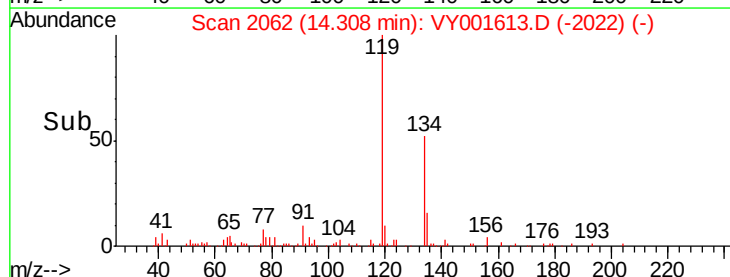
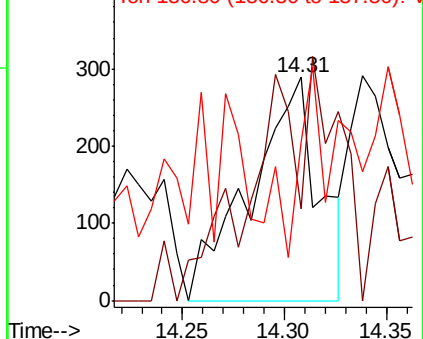
157 30.3 52.3 157.1#

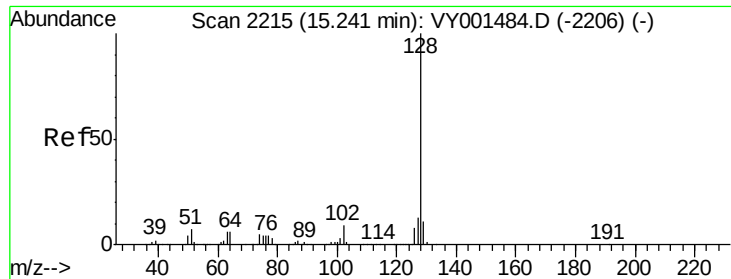


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

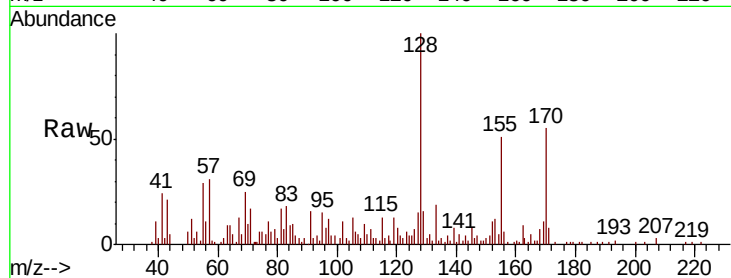




#95
 Naphthalene
 Concen: 5.122 ug/l
 RT: 15.25 min Scan# 2216
 Delta R.T. 0.01 min
 Lab File: VY001613.D
 Acq: 12 Feb 2020 15:09

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.1	15.1
129	11.9	8.9	13.3



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

