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 Data File : VY001475.D
 Acq On : 03 Feb 2020 15:29
 Operator : SY/MD
 Sample : L1345-04
 Misc : 5.08G/5ML/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 01-31-D

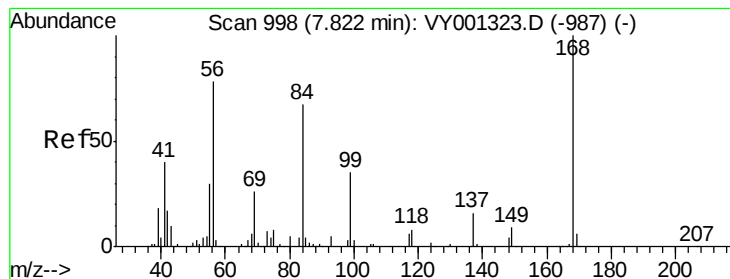
Quant Time: Feb 04 04:20:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y012120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 01:21:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	208637	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.70	114	380477	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.49	117	350380	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	160248	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	123164	54.25	ug/l	-0.01
Spiked Amount			Recovery	=	108.50%	
35) Dibromofluoromethane	7.73	113	115731	51.83	ug/l	-0.02
Spiked Amount			Recovery	=	103.66%	
50) Toluene-d8	10.18	98	447871	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.48	95	174261	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.94	59	1317	Below Cal	#	79
13) Acrolein	3.76	56	26	Below Cal	#	1
16) Acetone	3.96	43	7710	5.478	ug/l	96
25) 2-Butanone	7.00	43	3501	3.543	ug/l	97
31) Cyclohexane	7.80	56	6820	1.554	ug/l #	19
36) 1,1-Dichloropropene	7.80	75	16296	4.534	ug/l #	50
38) Carbon Tetrachloride	7.80	117	21595	6.741	ug/l #	15
39) Methylcyclohexane	9.19	83	10358	2.249	ug/l	92
55) 1,1,2-Trichloroethane	10.62	97	5494	2.545	ug/l #	20
59) 2-Hexanone	10.80	43	6016	3.929	ug/l #	29
67) Ethyl Benzene	11.60	91	25168	1.849	ug/l	100
68) m/p-Xylenes	11.70	106	34730	6.832	ug/l	97
74) N-amyl acetate	12.12	43	11593	2.801	ug/l #	43
76) 1,2,3-Trichloropropane	12.48	75	84464	43.741	ug/l #	100
78) n-propylbenzene	12.67	91	79002	5.191	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	53256	5.046	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.48	75	84464	82.775	ug/l #	15
83) tert-Butylbenzene	13.12	119	25022	2.812	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.12	105	208913	19.715	ug/l	100
89) n-Butylbenzene	13.70	91	55827	4.980	ug/l #	70
90) Hexachloroethane	13.97	117	17275	8.181	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.38	75	651	1.393	ug/l #	1
95) Naphthalene	15.23	128	243014	31.832	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.02 min

Lab File: VY001475.D

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MSVOA_Y

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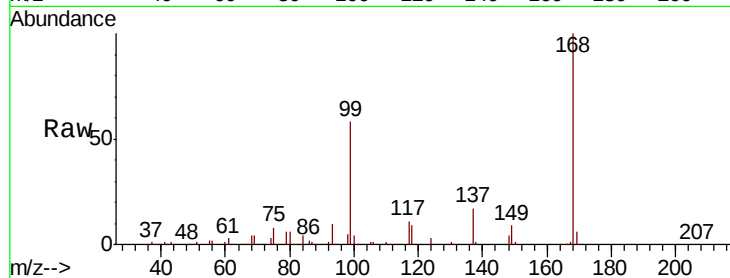
01-31-D

Tot Ion:168 Resp: 208637

Ion Ratio Lower Upper

168 100

99 57.7 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)

7.80

100000

80000

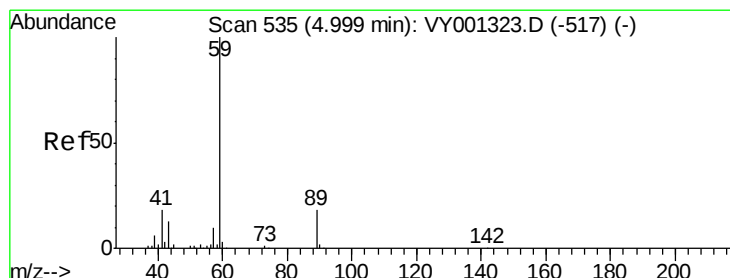
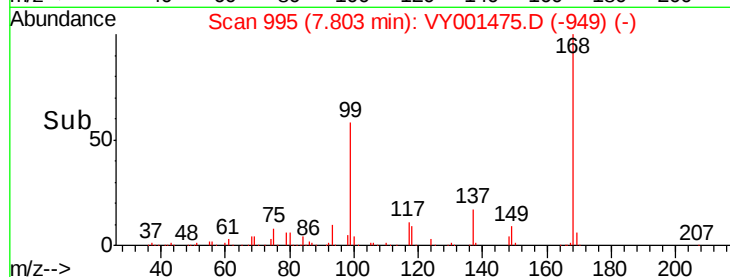
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.94 min Scan# 526

Delta R.T. -0.06 min

Lab File: VY001475.D

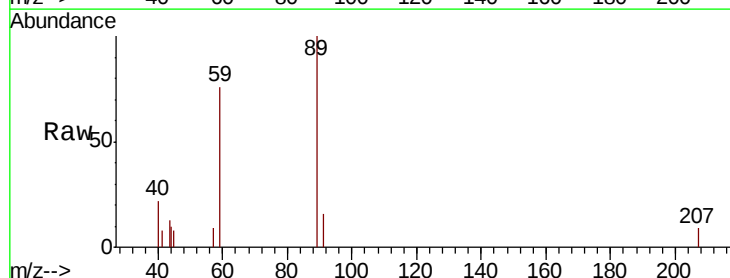
Acq: 03 Feb 2020 15:29

Tgt Ion: 59 Resp: 1317

Ion Ratio Lower Upper

59 100

57 1.5 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001323.D (-517) (-)

Ion 57.00 (56.70 to 57.70): VY001323.D (-517) (-)

4.94

500

400

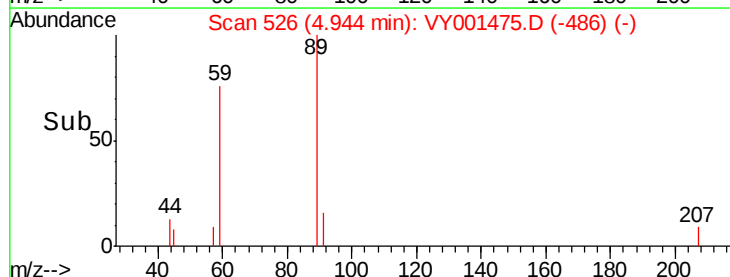
300

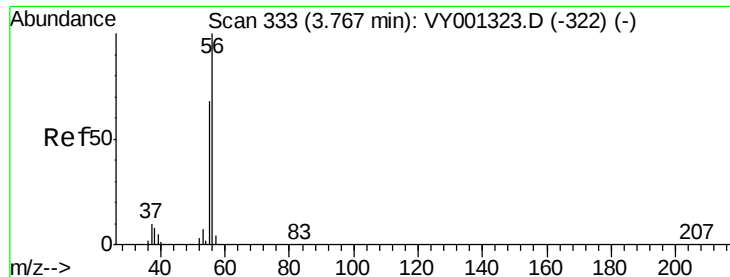
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.76 min Scan# 332

Delta R.T. -0.01 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

Instrument :

MSVOA_Y

ClientSampleId :

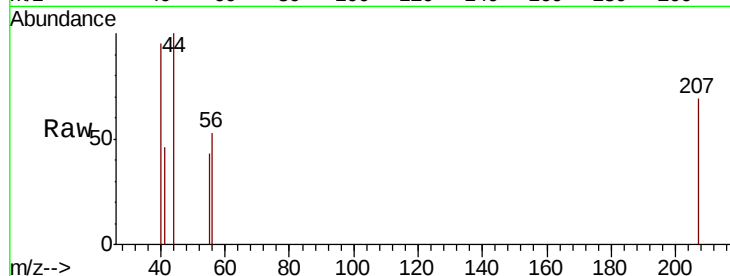
01-31-D

Tot Ion: 56 Resp: 26

Ion Ratio Lower Upper

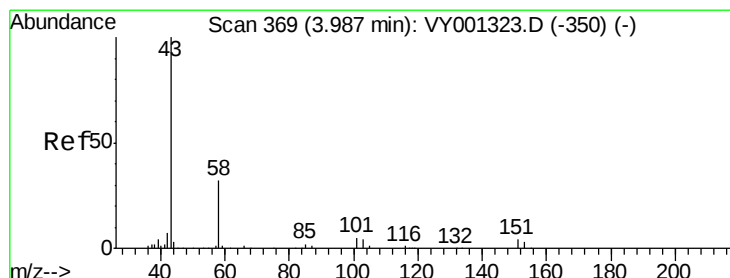
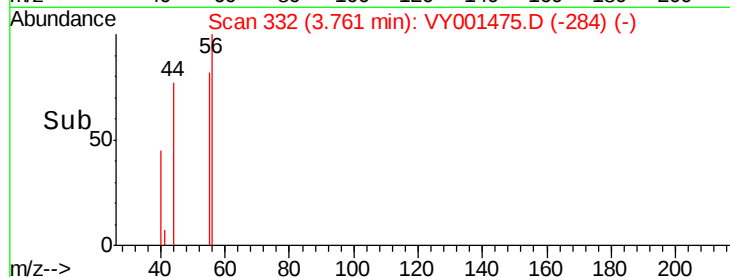
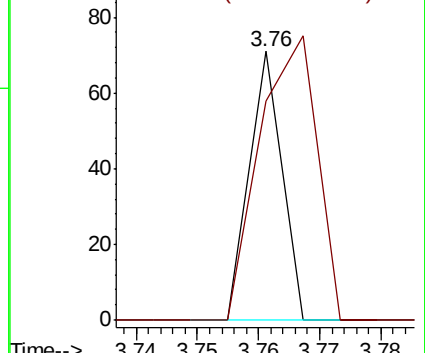
56 100

55 188.5 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#16

Acetone

Concen: 5.478 ug/l

RT: 3.96 min Scan# 365

Delta R.T. -0.02 min

Lab File: VY001475.D

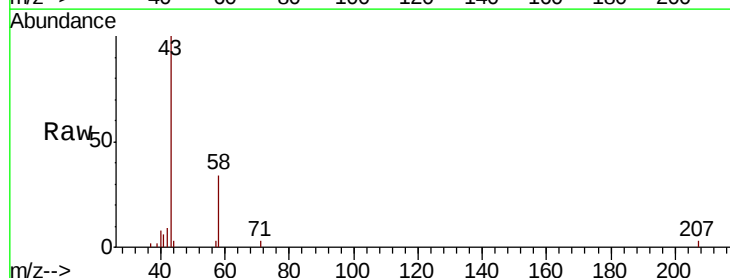
Acq: 03 Feb 2020 15:29

Tgt Ion: 43 Resp: 7710

Ion Ratio Lower Upper

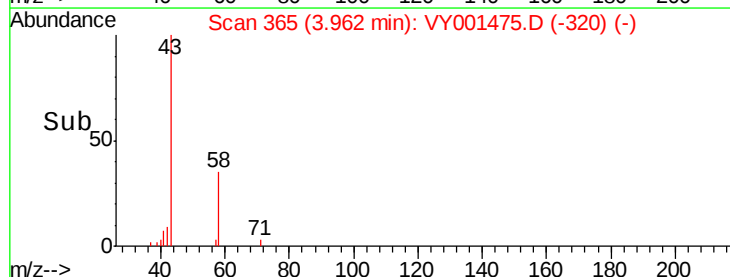
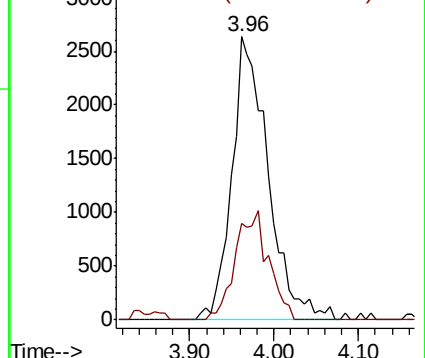
43 100

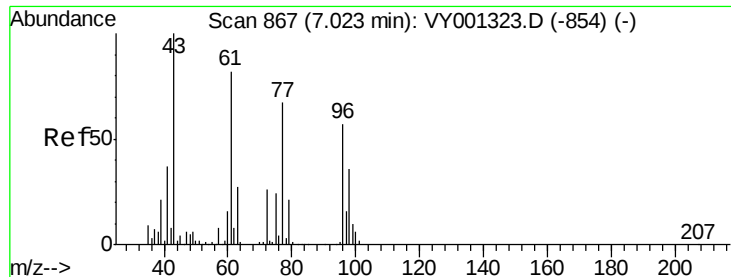
58 33.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#25

2-Butanone

Concen: 3.543 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.02 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

Instrument :

MSVOA_Y

ClientSampled :

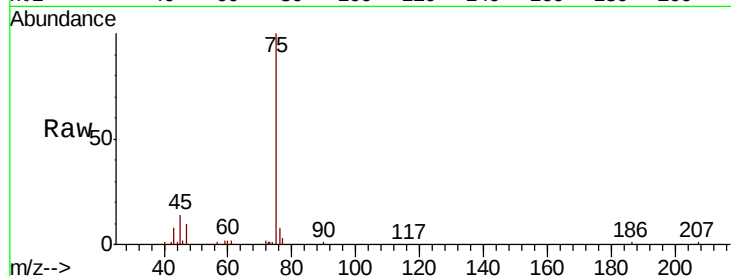
01-31-D

Tot Ion: 43 Resp: 3501

Ion Ratio Lower Upper

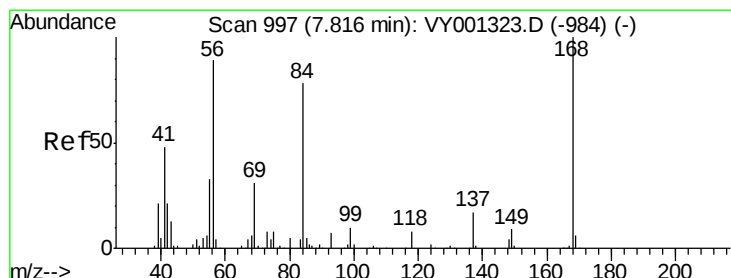
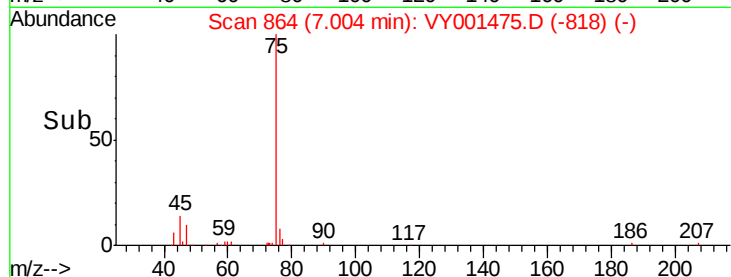
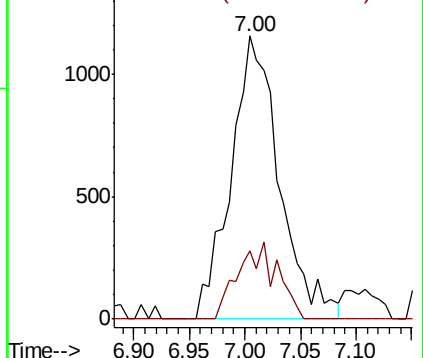
43 100

72 24.2 20.6 31.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#31

Cyclohexane

Concen: 1.554 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.02 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

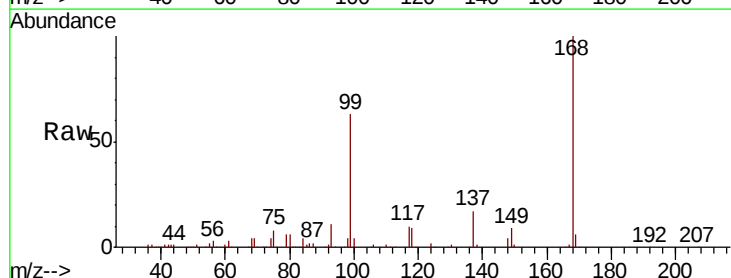
Tgt Ion: 56 Resp: 6820

Ion Ratio Lower Upper

56 100

69 143.1 27.6 41.4#

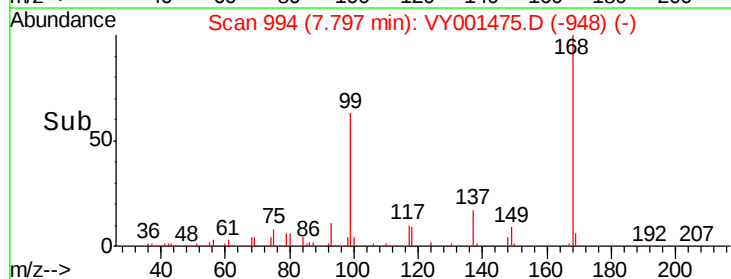
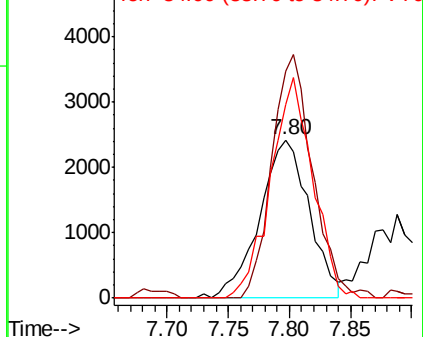
84 122.5 69.7 104.5#

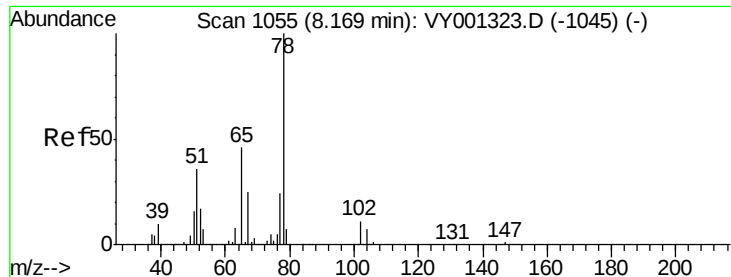


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0

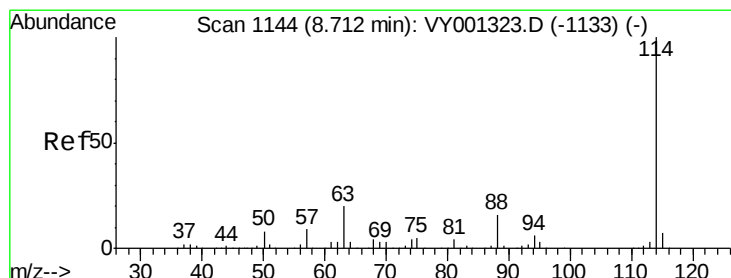
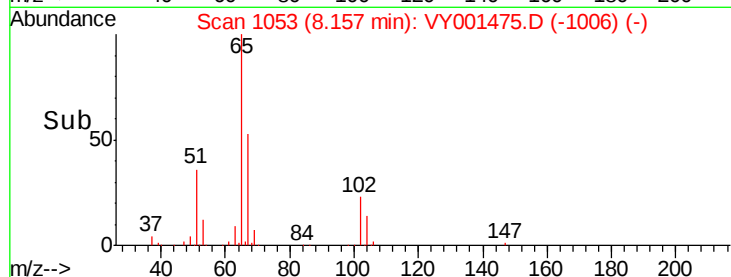
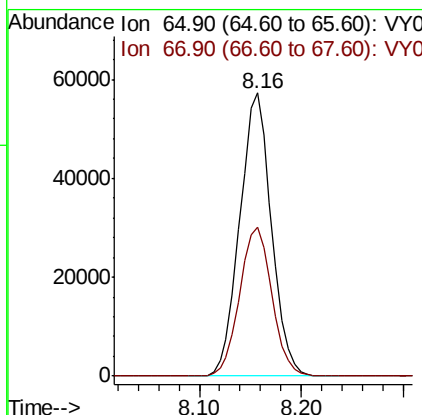
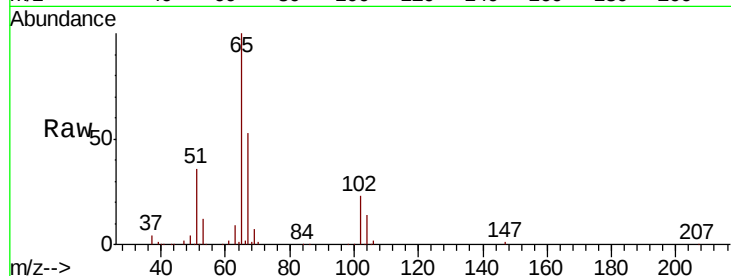




#33
 1,2-Dichloroethane-d4
 Concen: 54.251 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VY001475.D
 Acq: 03 Feb 2020 15:29

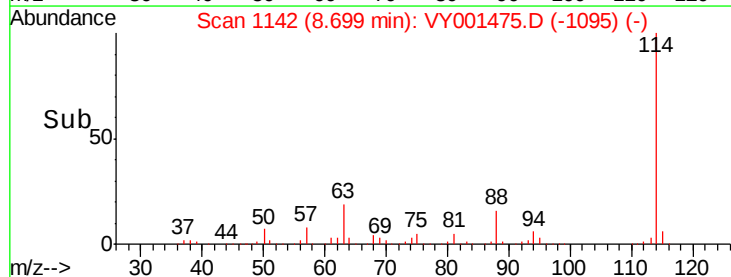
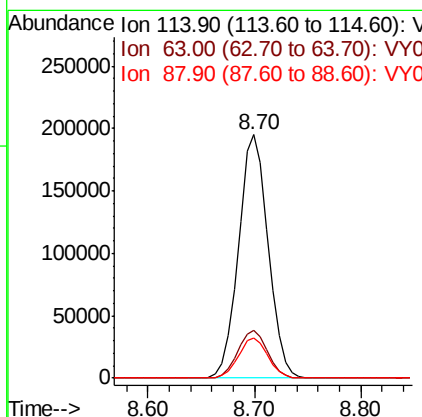
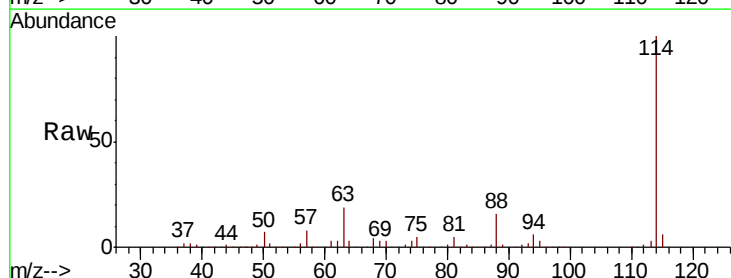
Instrument :
 MSVOA_Y
 ClientSampleId :
 01-31-D

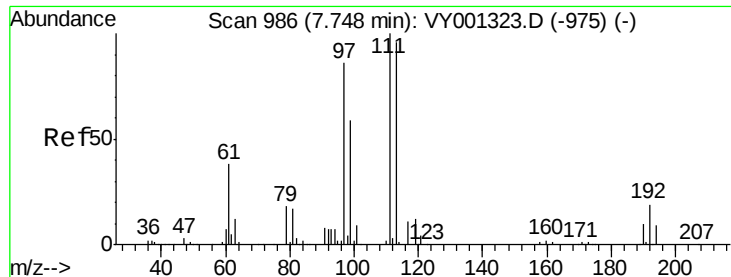
Tot Ion: 65 Resp: 123164
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY001475.D
 Acq: 03 Feb 2020 15:29

Tgt Ion: 114 Resp: 380477
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.8
 88 16.3 0.0 31.0

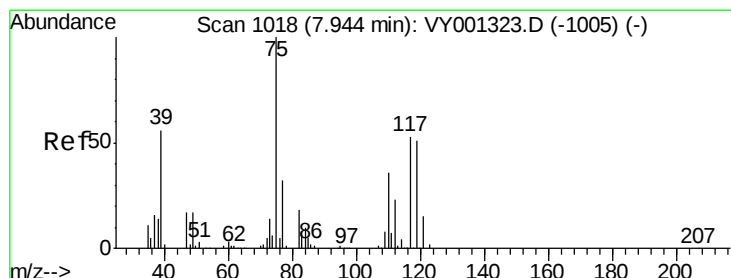
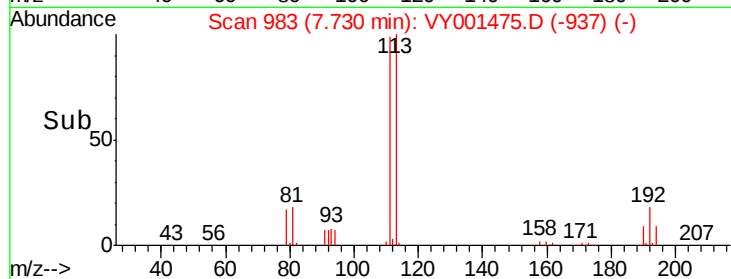
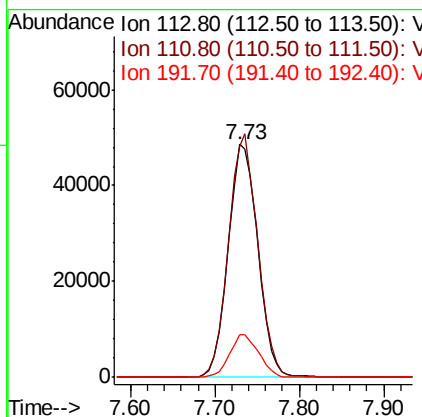
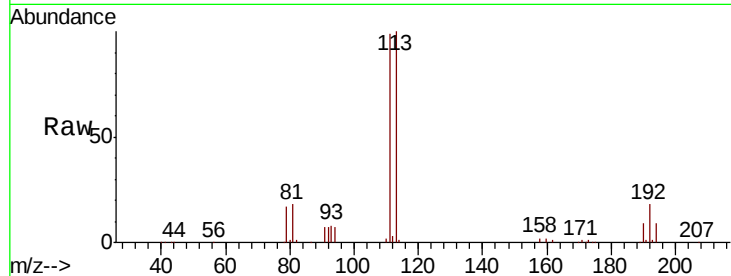




#35
 Dibromofluoromethane
 Concen: 51.826 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.02 min
 Lab File: VY001475.D
 Acq: 03 Feb 2020 15:29

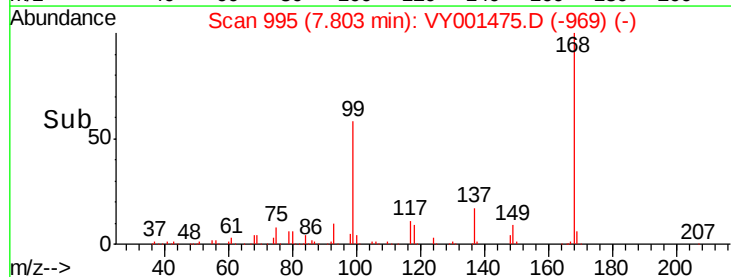
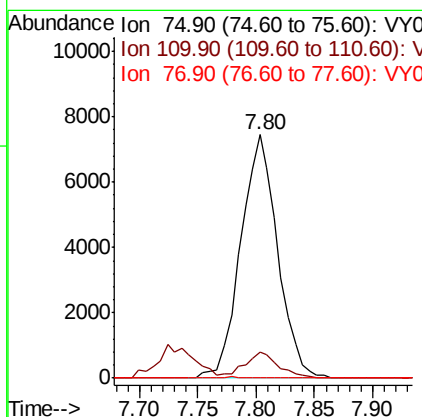
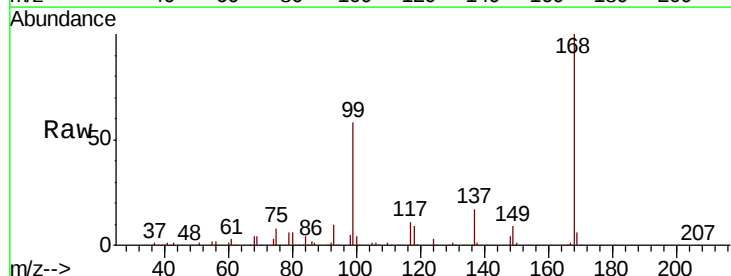
Instrument :
 MSVOA_Y
 ClientSampleId :
 01-31-D

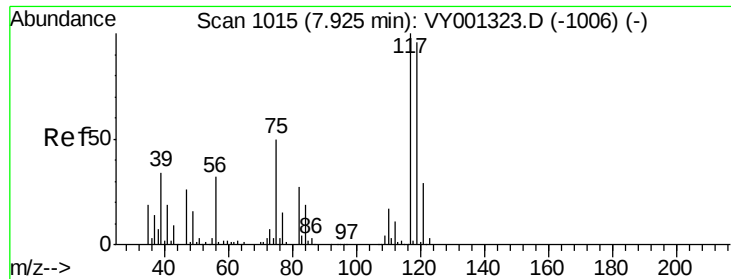
Tot Ion:113 Resp: 115731
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.8 124.2
 192 18.1 15.5 23.3



#36
 1,1-Dichloropropene
 Concen: 4.534 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.14 min
 Lab File: VY001475.D
 Acq: 03 Feb 2020 15:29

Tgt Ion: 75 Resp: 16296
 Ion Ratio Lower Upper
 75 100
 110 9.8 17.6 52.8#
 77 0.0 24.7 37.1#

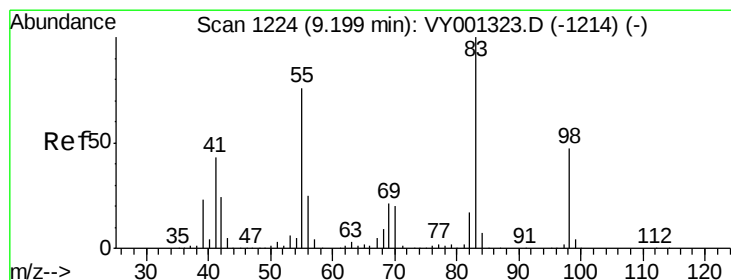
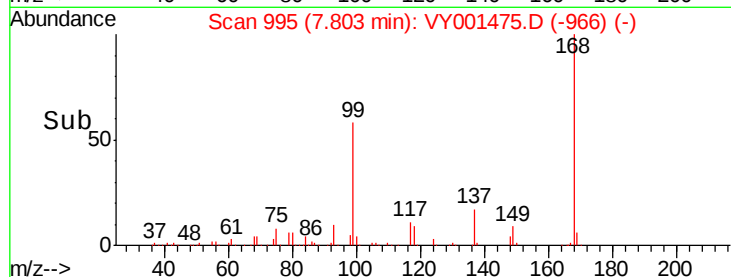
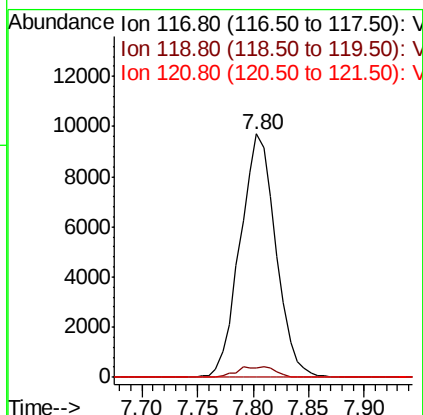
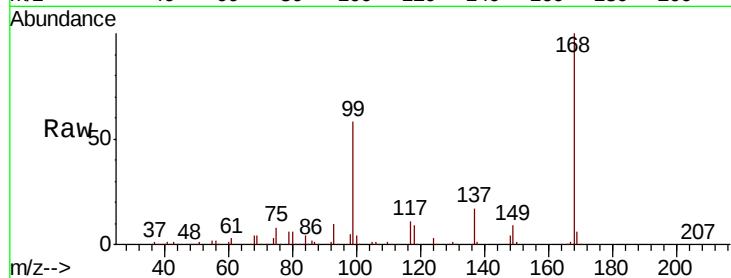




#38
Carbon Tetrachloride
Concen: 6.741 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.12 min
Lab File: VY001475.D
Acq: 03 Feb 2020 15:29

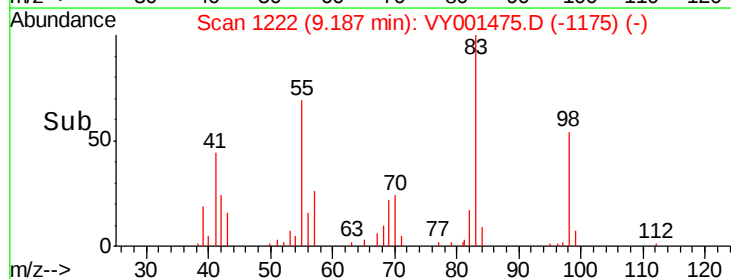
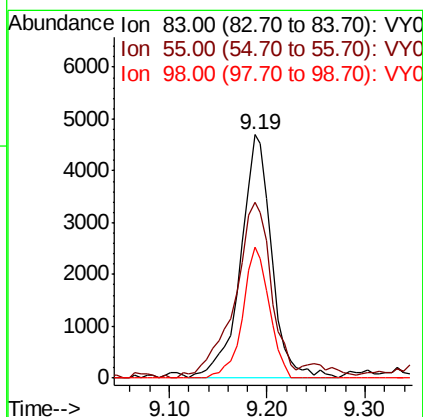
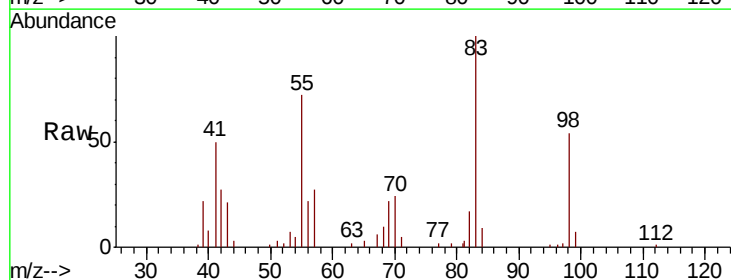
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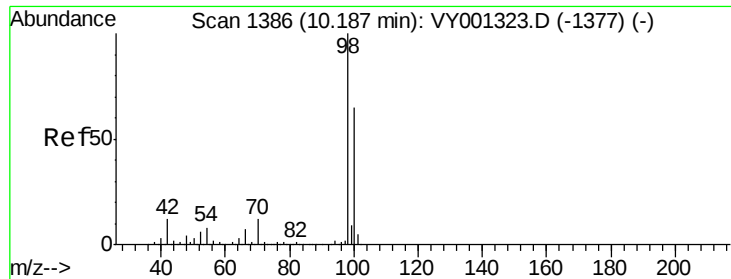
Tot Ion:117 Resp: 21595
Ion Ratio Lower Upper
117 100
119 4.1 76.3 114.5#
121 0.0 23.5 35.3#



#39
Methylcyclohexane
Concen: 2.249 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.01 min
Lab File: VY001475.D
Acq: 03 Feb 2020 15:29

Tgt Ion: 83 Resp: 10358
Ion Ratio Lower Upper
83 100
55 70.2 60.7 91.1
98 53.7 37.8 56.8





#50

Toluene-d8

Concen: 51.622 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

Instrument :

MSVOA_Y

ClientSampleId :

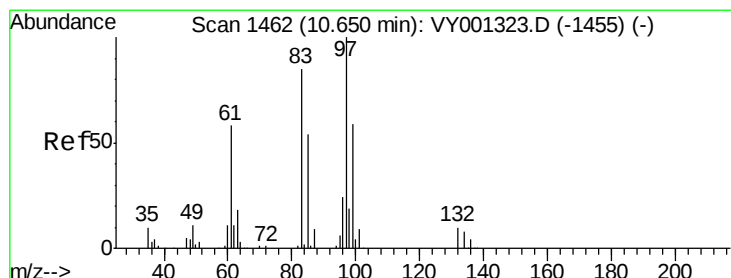
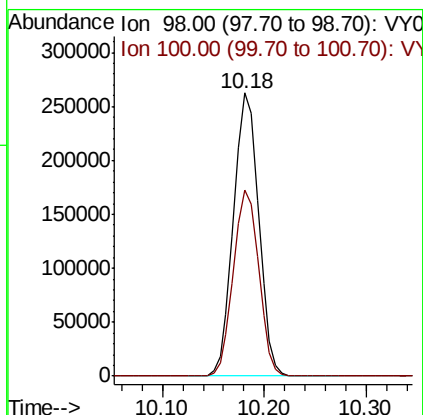
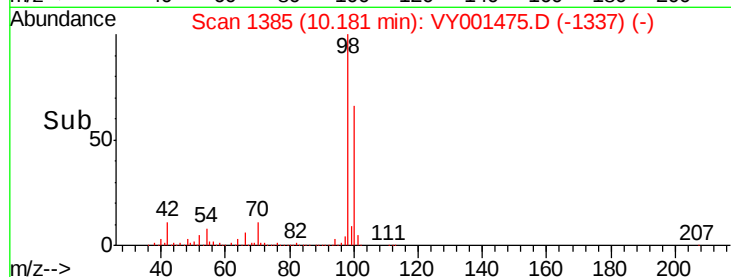
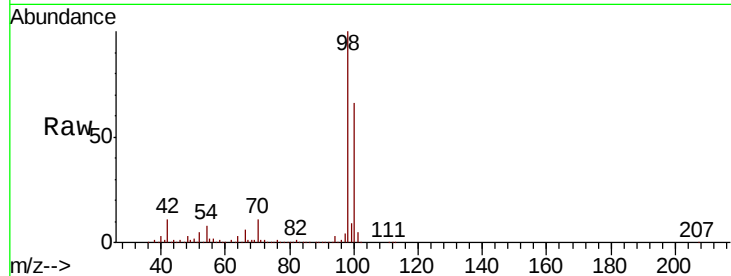
01-31-D

Tot Ion: 98 Resp: 447871

Ion Ratio Lower Upper

98 100

100 66.1 52.6 79.0



#55

1,1,2-Trichloroethane

Concen: 2.545 ug/l

RT: 10.62 min Scan# 1457

Delta R.T. -0.03 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

Tgt Ion: 97 Resp: 5494

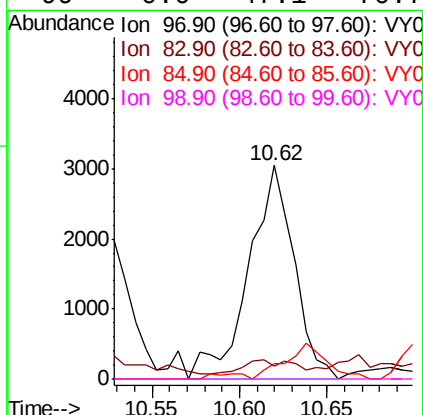
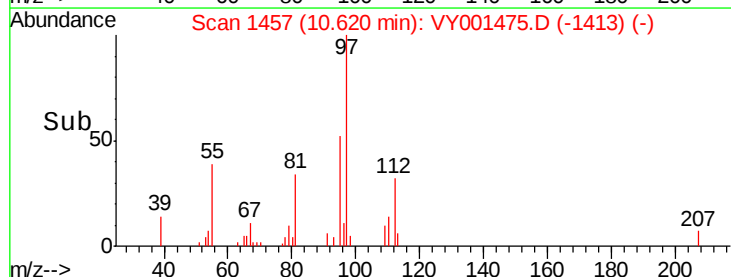
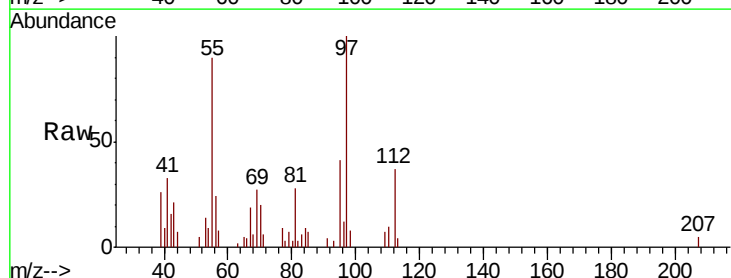
Ion Ratio Lower Upper

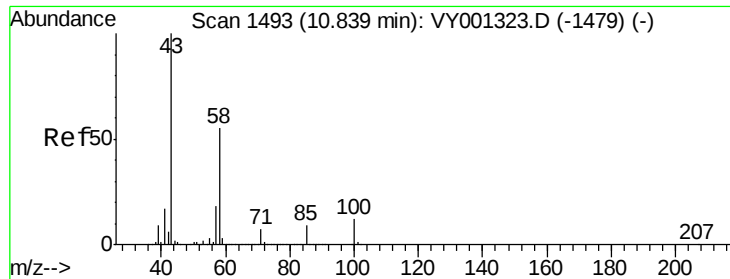
97 100

83 2.2 68.0 102.0#

85 7.4 43.6 65.4#

99 0.0 47.1 70.7#

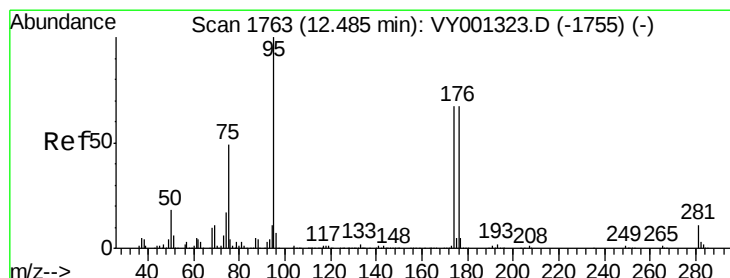
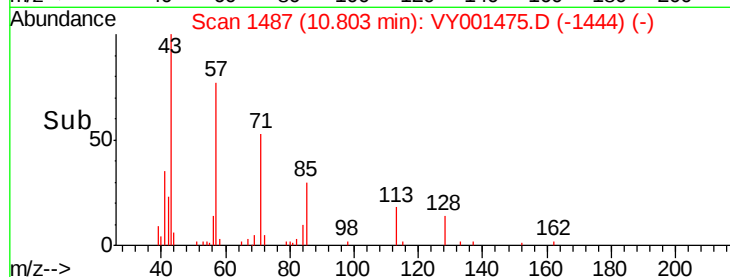
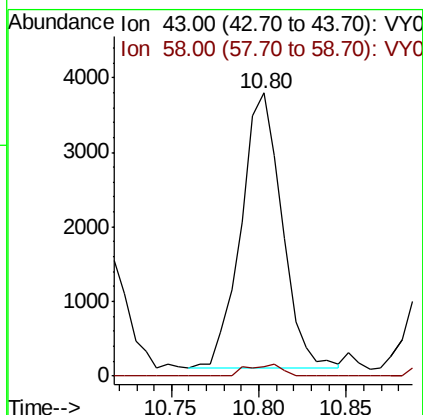
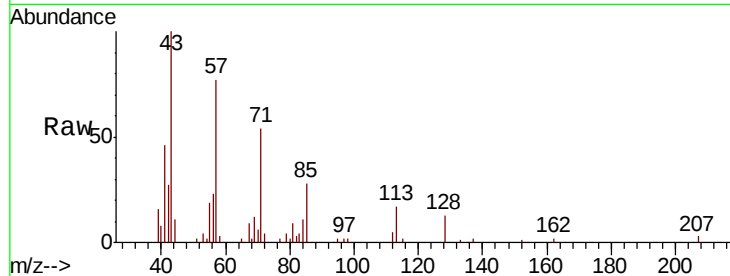




#59
2-Hexanone
Concen: 3.929 ug/l
RT: 10.80 min Scan# 1487
Delta R.T. -0.04 min
Lab File: VY001475.D
Acq: 03 Feb 2020 15:29

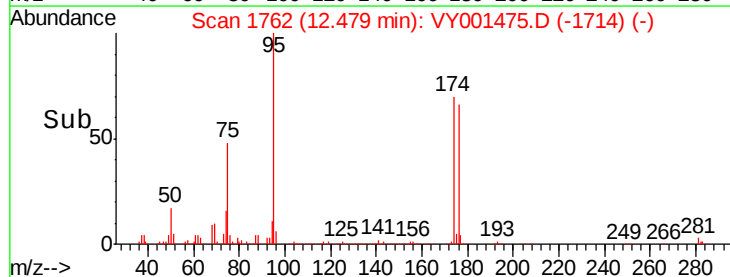
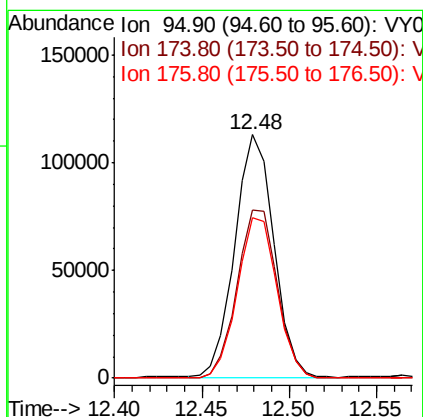
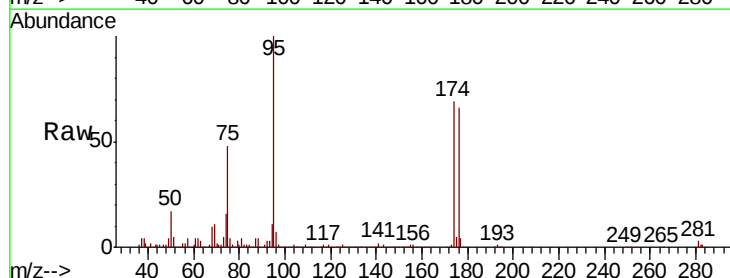
Instrument :
MSVOA_Y
ClientSampleId :
01-31-D

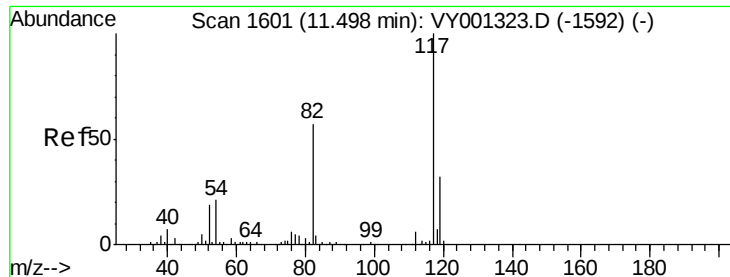
Tot Ion: 43 Resp: 6016
Ion Ratio Lower Upper
43 100
58 3.7 27.6 82.8#



#62
4-Bromofluorobenzene
Concen: 50.437 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VY001475.D
Acq: 03 Feb 2020 15:29

Tgt Ion: 95 Resp: 174261
Ion Ratio Lower Upper
95 100
174 71.5 0.0 142.0
176 67.6 0.0 138.6

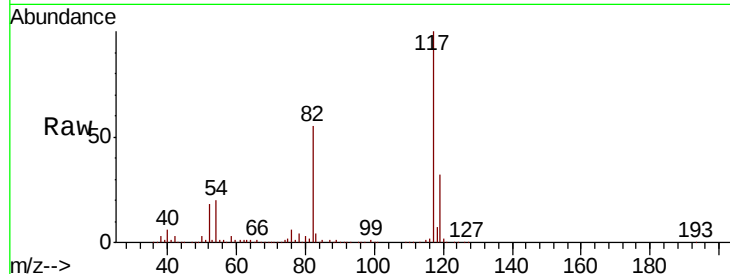




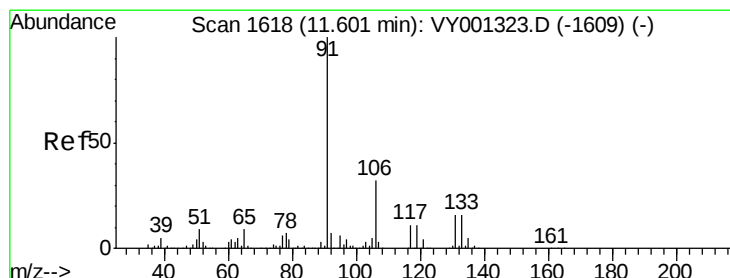
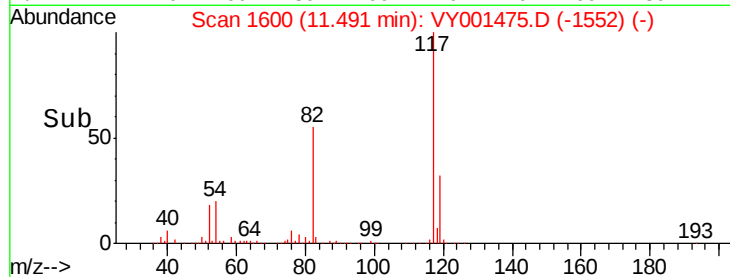
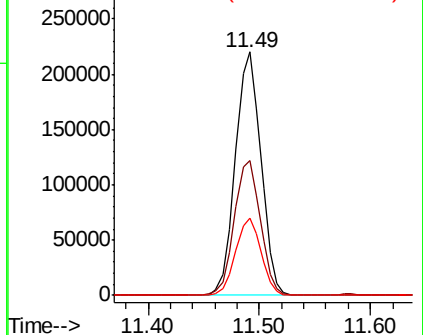
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY001475.D
Acq: 03 Feb 2020 15:29

Instrument :
MSVOA_Y
ClientSampleId :
01-31-D

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.9	45.5	68.3
119	31.8	25.8	38.6

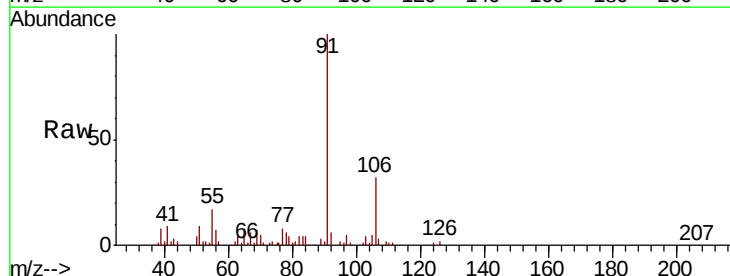


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

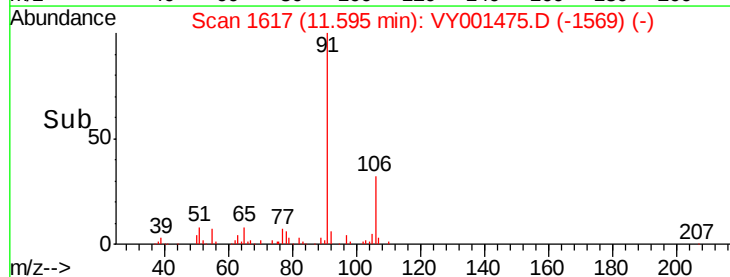
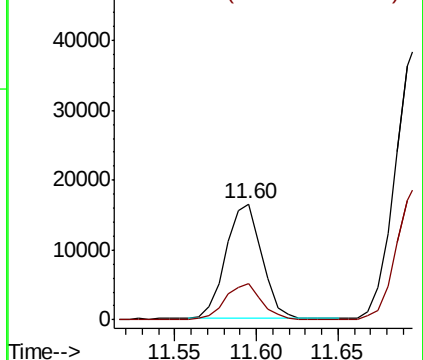


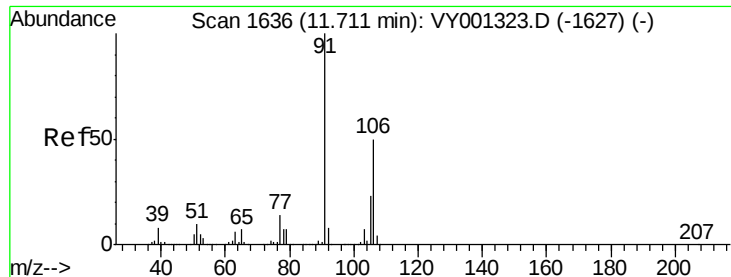
#67
Ethyl Benzene
Concen: 1.849 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001475.D
Acq: 03 Feb 2020 15:29

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.4	38.0



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

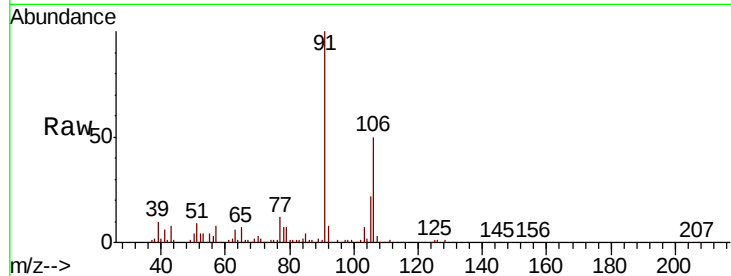




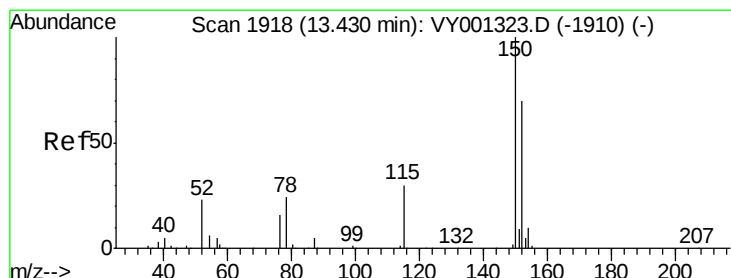
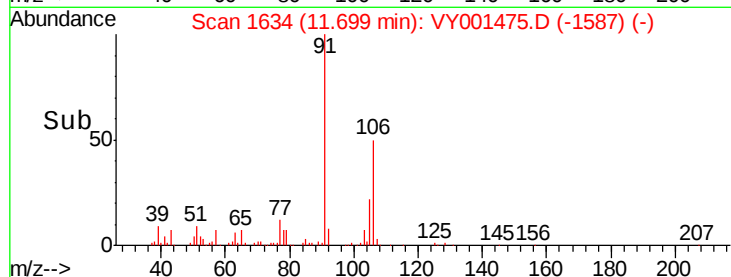
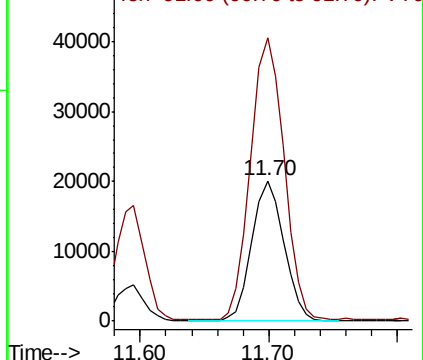
#68
m/p-Xvlenes
Concen: 6.832 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VY001475.D
Acq: 03 Feb 2020 15:29

Instrument :
MSVOA_Y
ClientSampled :
01-31-D

Tot Ion:106 Resp: 34730
Ion Ratio Lower Upper
106 100
91 208.6 162.8 244.2

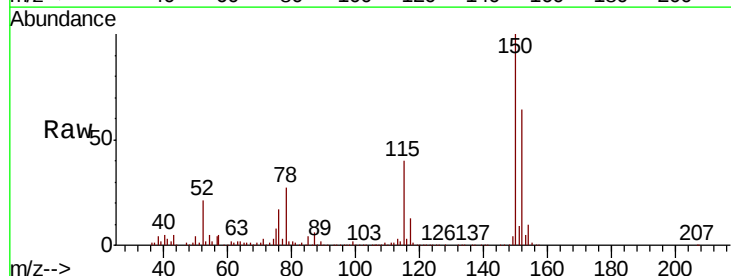


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

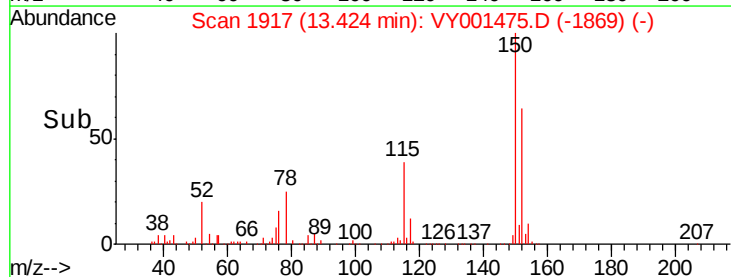
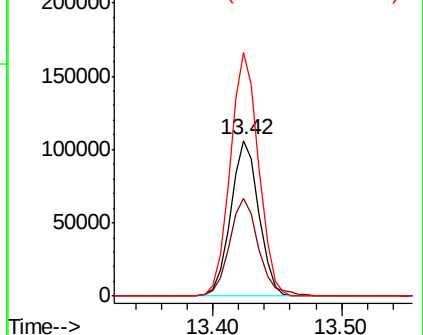


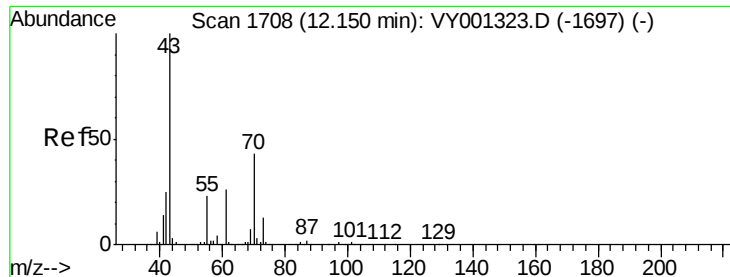
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY001475.D
Acq: 03 Feb 2020 15:29

Tgt Ion:152 Resp: 160248
Ion Ratio Lower Upper
152 100
115 65.2 30.9 92.8
150 158.4 0.0 349.2



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





#74

N-amvl acetate

Concen: 2.801 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.03 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

Instrument :

MSVOA_Y

ClientSampleId :

01-31-D

Tot Ion: 43 Resp: 11593

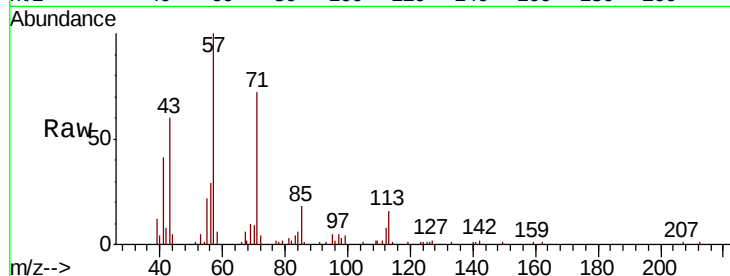
Ion Ratio Lower Upper

43 100

70 0.0 33.5 50.3#

55 0.0 18.2 27.2#

61 0.0 19.6 29.4#



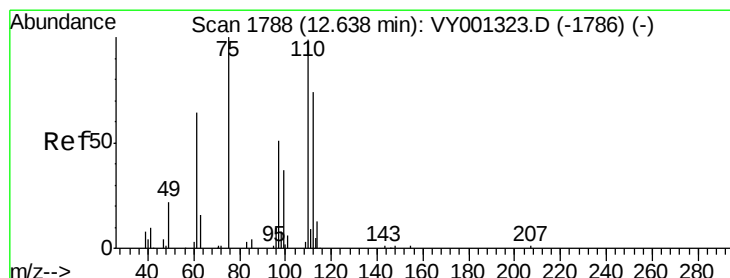
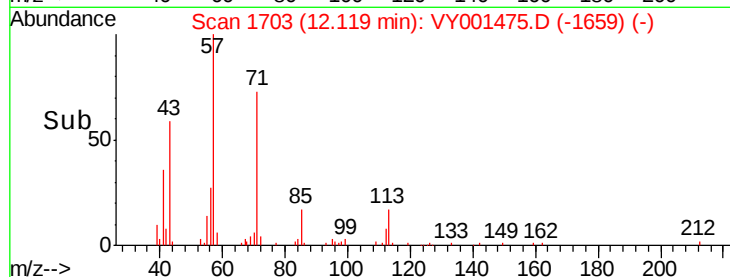
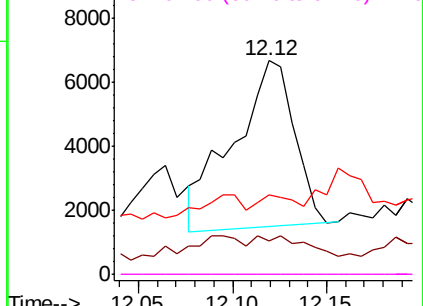
Abundance

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: 43.741 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.16 min

Lab File: VY001475.D

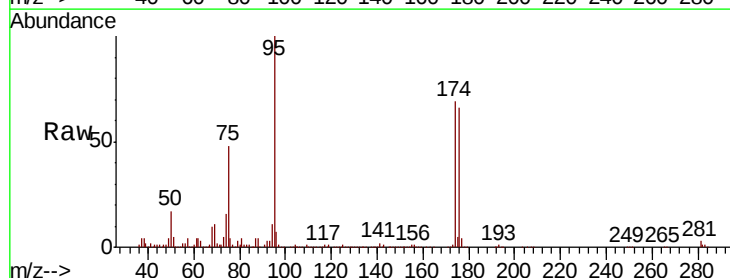
Acq: 03 Feb 2020 15:29

Tgt Ion: 75 Resp: 84464

Ion Ratio Lower Upper

75 100

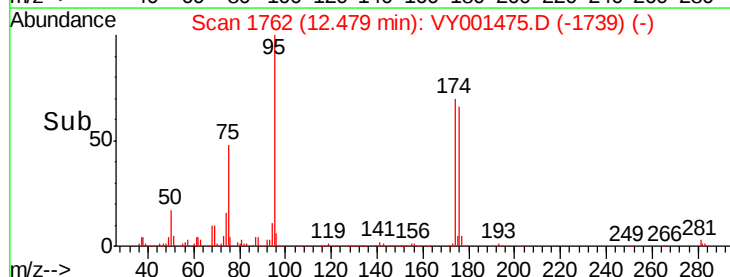
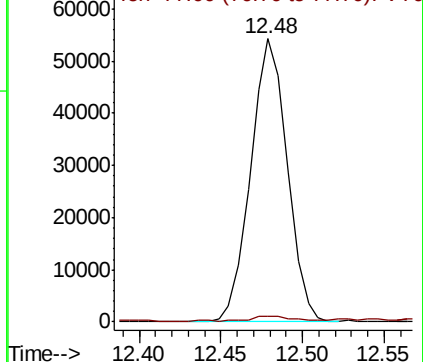
77 1.7 0.0 0.0#

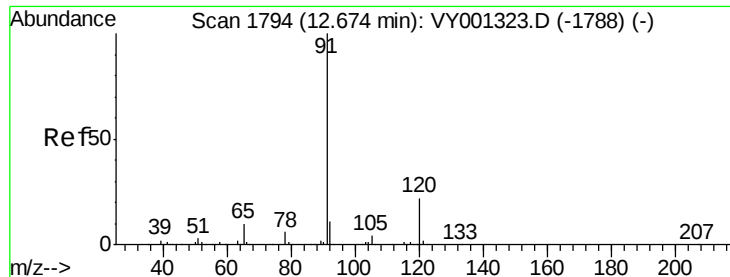


Abundance

Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

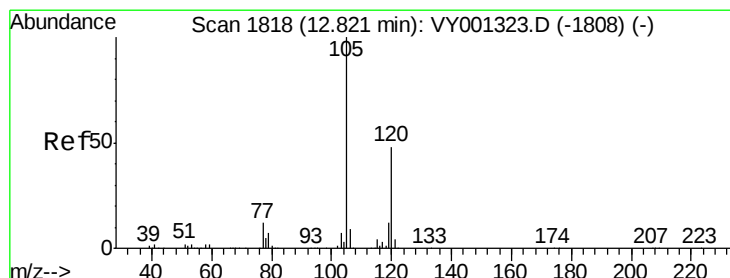
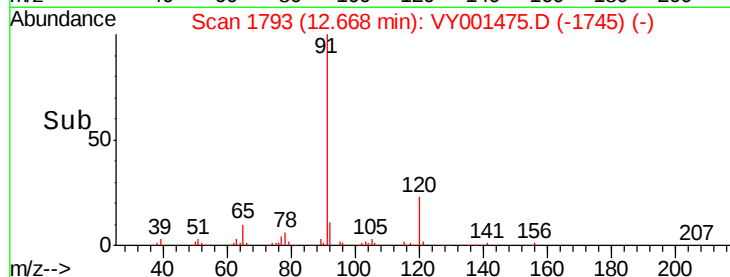
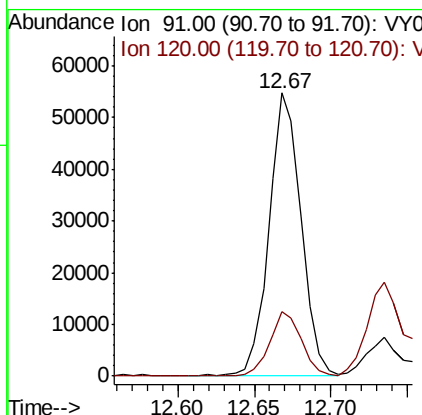
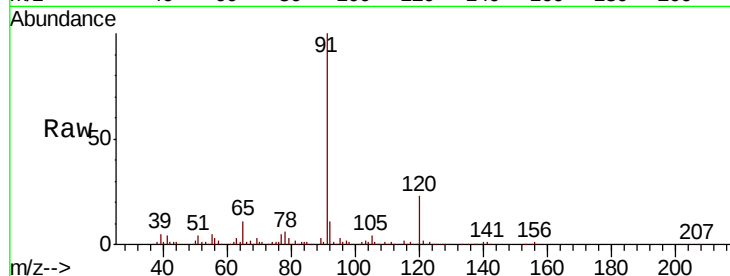




#78
 n-propylbenzene
 Concen: 5.191 ug/l
 RT: 12.67 min Scan# 1793
 Delta R.T. -0.01 min
 Lab File: VY001475.D
 Acq: 03 Feb 2020 15:29

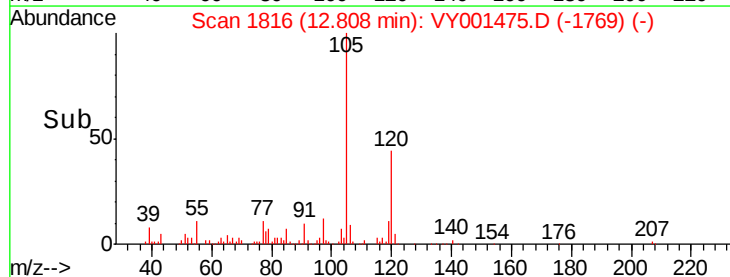
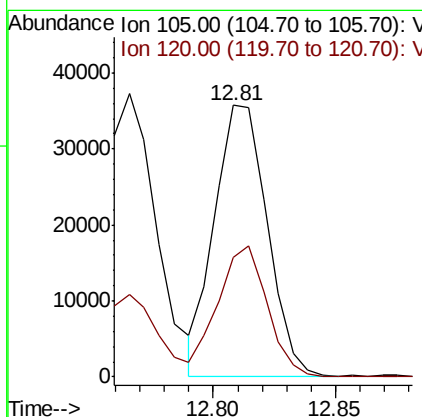
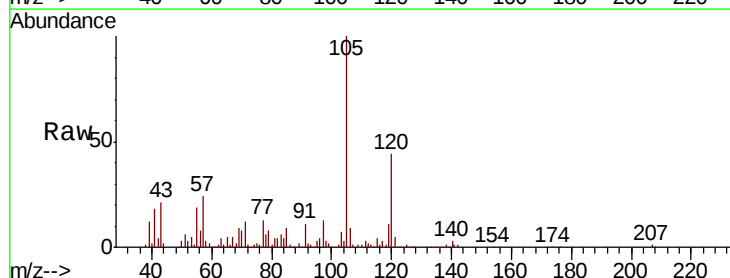
Instrument :
 MSVOA_Y
 ClientSampled :
 01-31-D

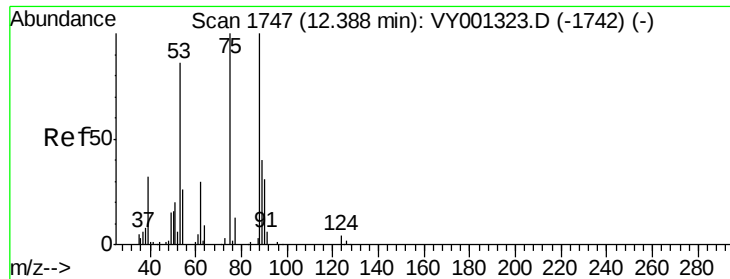
Tot Ion: 91 Resp: 79002
 Ion Ratio Lower Upper
 91 100
 120 22.8 11.3 33.8



#80
 1,3,5-Trimethylbenzene
 Concen: 5.046 ug/l
 RT: 12.81 min Scan# 1816
 Delta R.T. -0.01 min
 Lab File: VY001475.D
 Acq: 03 Feb 2020 15:29

Tgt Ion: 105 Resp: 53256
 Ion Ratio Lower Upper
 105 100
 120 45.7 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 82.775 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.09 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

Instrument :

MSVOA_Y

ClientSampleId :

01-31-D

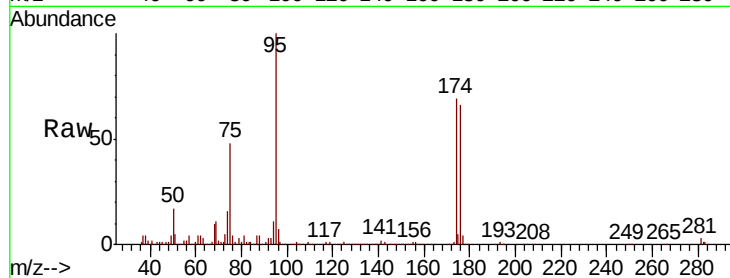
Tot Ion: 75 Resp: 84464

Ion Ratio Lower Upper

75 100

53 0.0 69.9 104.9#

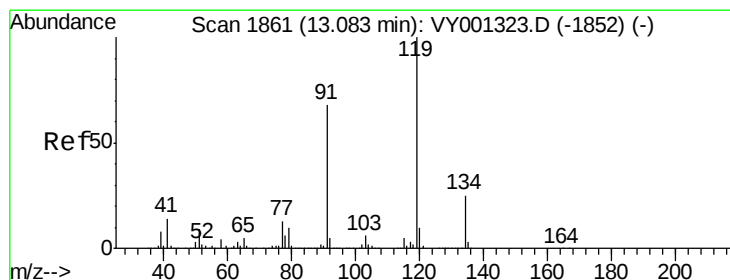
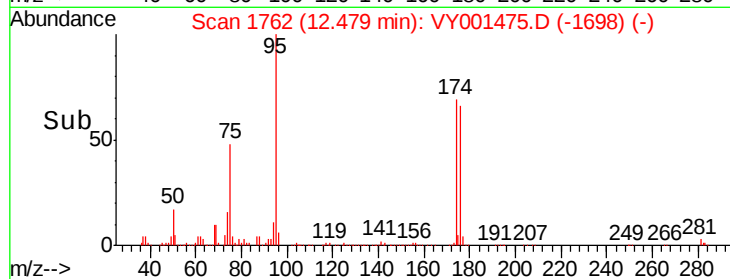
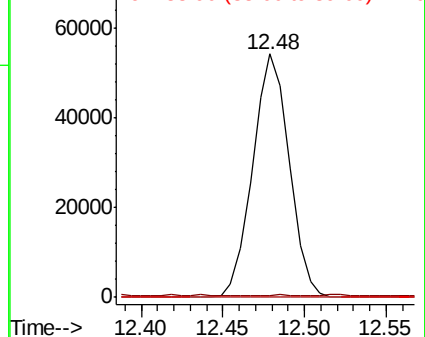
89 0.6 36.6 54.8#



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



#83

tert-Butylbenzene

Concen: 2.812 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.04 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

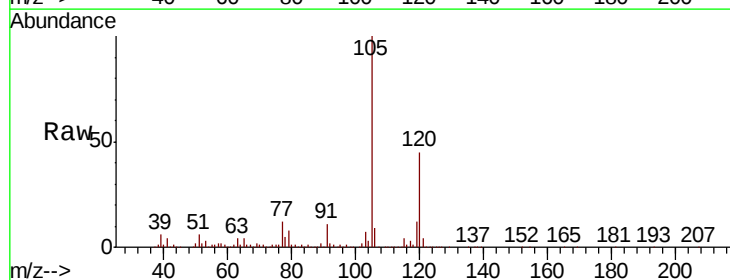
Tgt Ion: 119 Resp: 25022

Ion Ratio Lower Upper

119 100

91 89.9 33.0 99.0

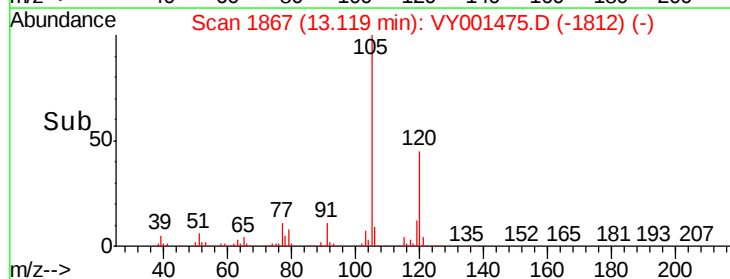
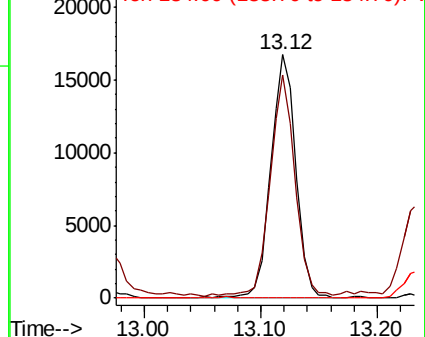
134 0.0 13.3 39.9#

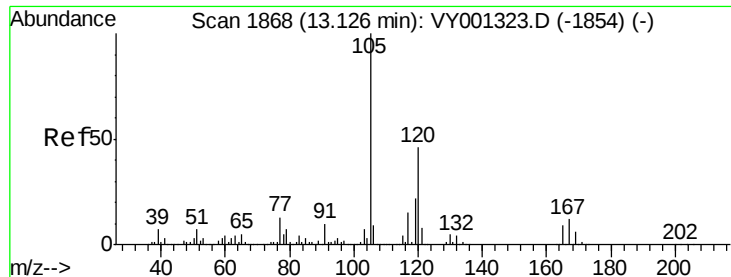


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V

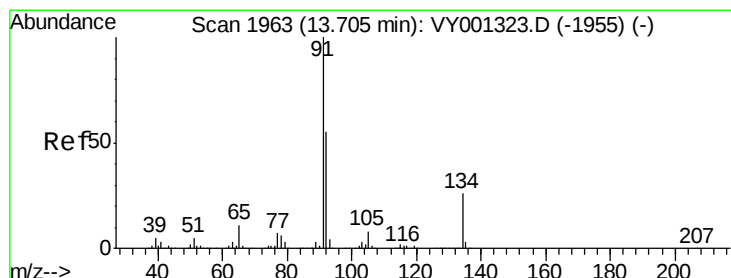
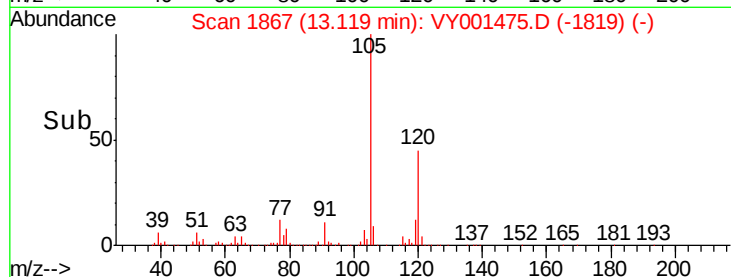
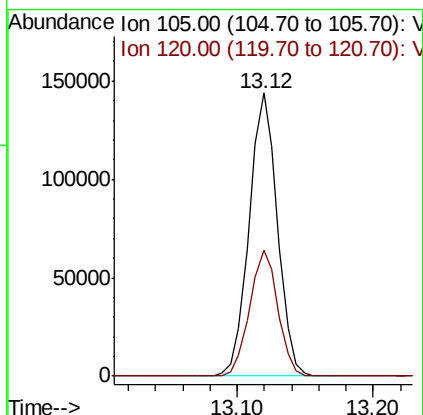
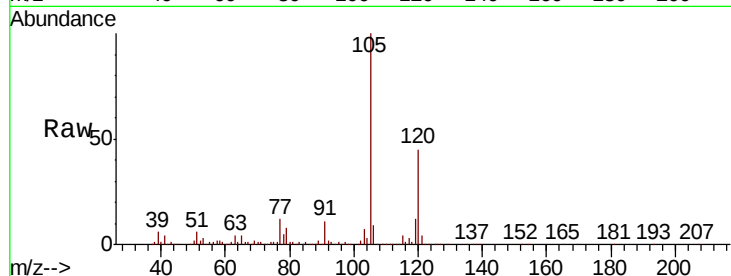




#84
 1,2,4-Trimethylbenzene
 Concen: 19.715 ug/l
 RT: 13.12 min Scan# 1867
 Delta R.T. -0.01 min
 Lab File: VY001475.D
 Acq: 03 Feb 2020 15:29

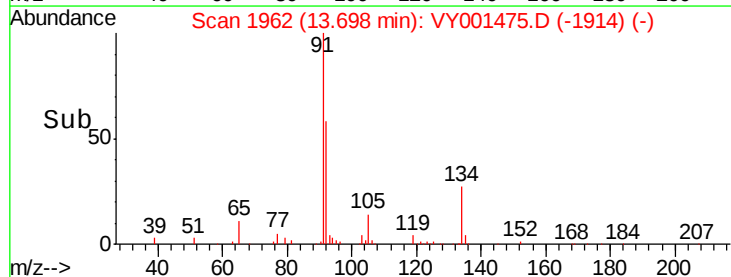
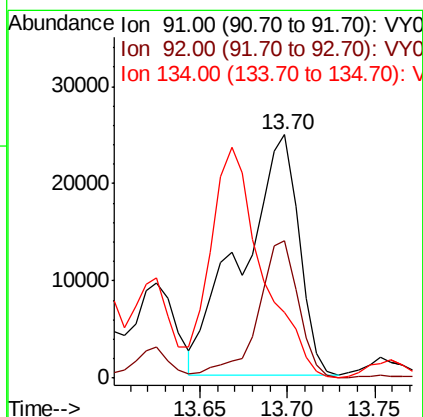
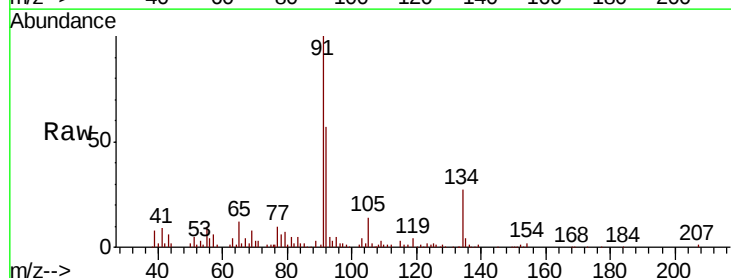
Instrument :
 MSVOA_Y
 ClientSampleId :
 01-31-D

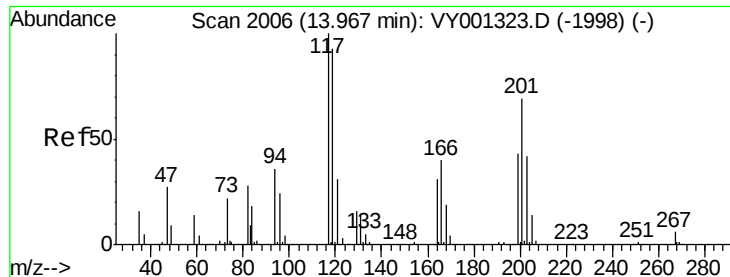
Tot Ion:105 Resp: 208913
 Ion Ratio Lower Upper
 105 100
 120 44.6 22.4 67.3



#89
 n-Butylbenzene
 Concen: 4.980 ug/l
 RT: 13.70 min Scan# 1962
 Delta R.T. -0.01 min
 Lab File: VY001475.D
 Acq: 03 Feb 2020 15:29

Tgt Ion: 91 Resp: 55827
 Ion Ratio Lower Upper
 91 100
 92 40.8 27.6 82.8
 134 0.0 12.9 38.6#





#90

Hexachloroethane

Concen: 8.181 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

Instrument :

MSVOA_Y

ClientSampleId :

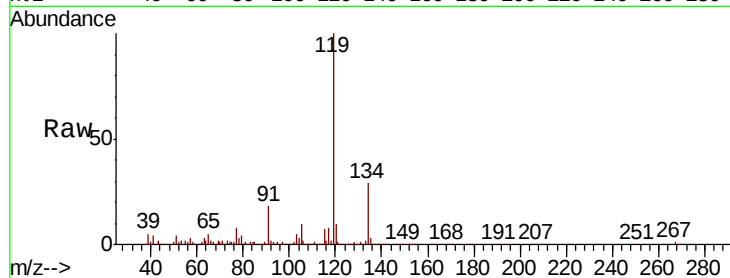
01-31-D

Tot Ion:117 Resp: 17275

Ion Ratio Lower Upper

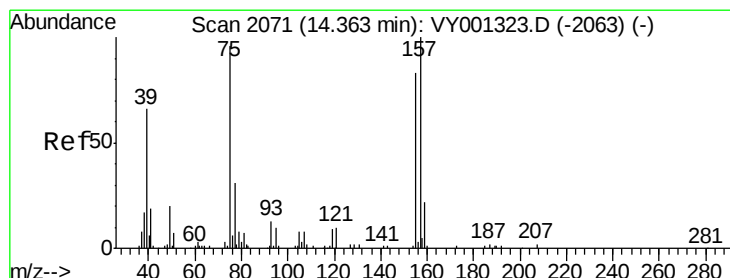
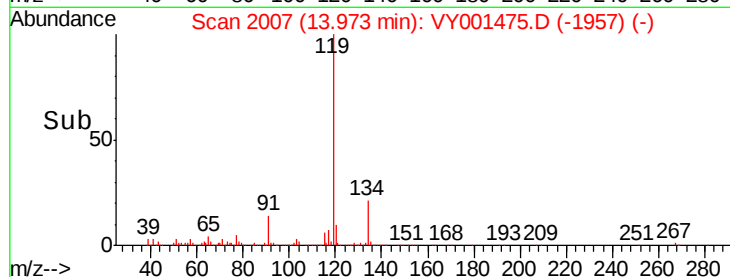
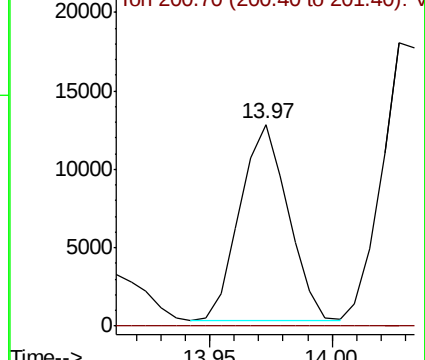
117 100

201 0.0 34.6 103.8#



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: 1.393 ug/l

RT: 14.38 min Scan# 2074

Delta R.T. 0.02 min

Lab File: VY001475.D

Acq: 03 Feb 2020 15:29

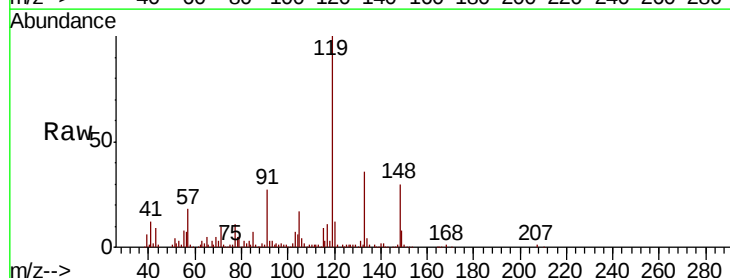
Tgt Ion: 75 Resp: 651

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.2#

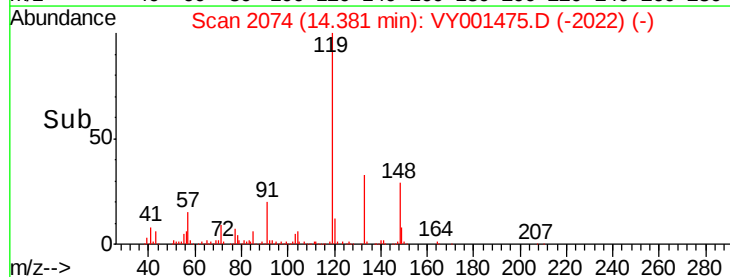
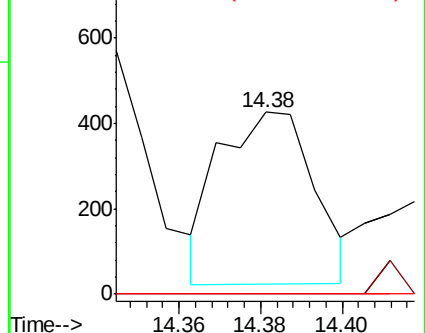
157 0.0 53.3 160.0#

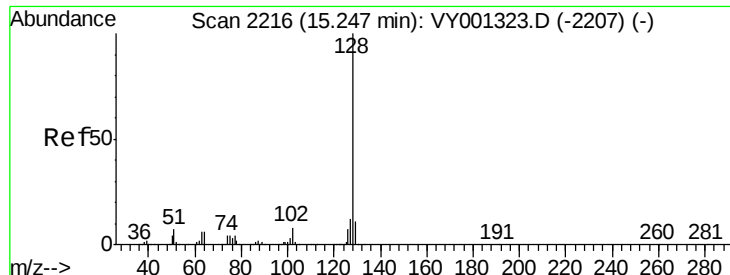


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

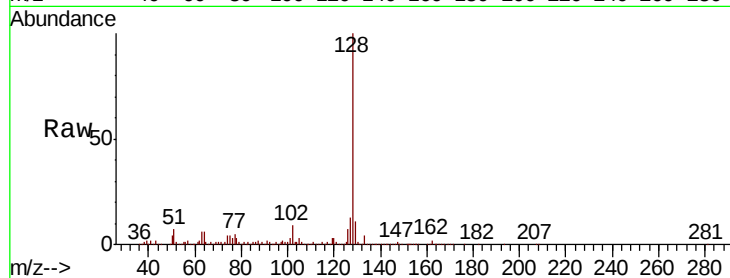




#95
Naphthalene
Concen: 31.832 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. -0.01 min
Lab File: VY001475.D
Acq: 03 Feb 2020 15:29

Instrument :
MSVOA_Y
ClientSampleId :
01-31-D

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.6	8.7	13.1



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

