

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY013120\
 Data File : VY001459.D
 Acq On : 31 Jan 2020 16:37
 Operator : SY/MD
 Sample : L1351-03
 Misc : 5.10G/5ML/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TAL-3

Quant Time: Jan 31 18:06:47 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	7.82	168	142746	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	261139	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	231395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	98840	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.17	65	83351	53.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.32%	
35) Dibromofluoromethane	7.75	113	77783	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
50) Toluene-d8	10.19	98	307448	51.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.26%	
62) 4-Bromofluorobenzene	12.49	95	106808	45.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.08%	

Target Compounds

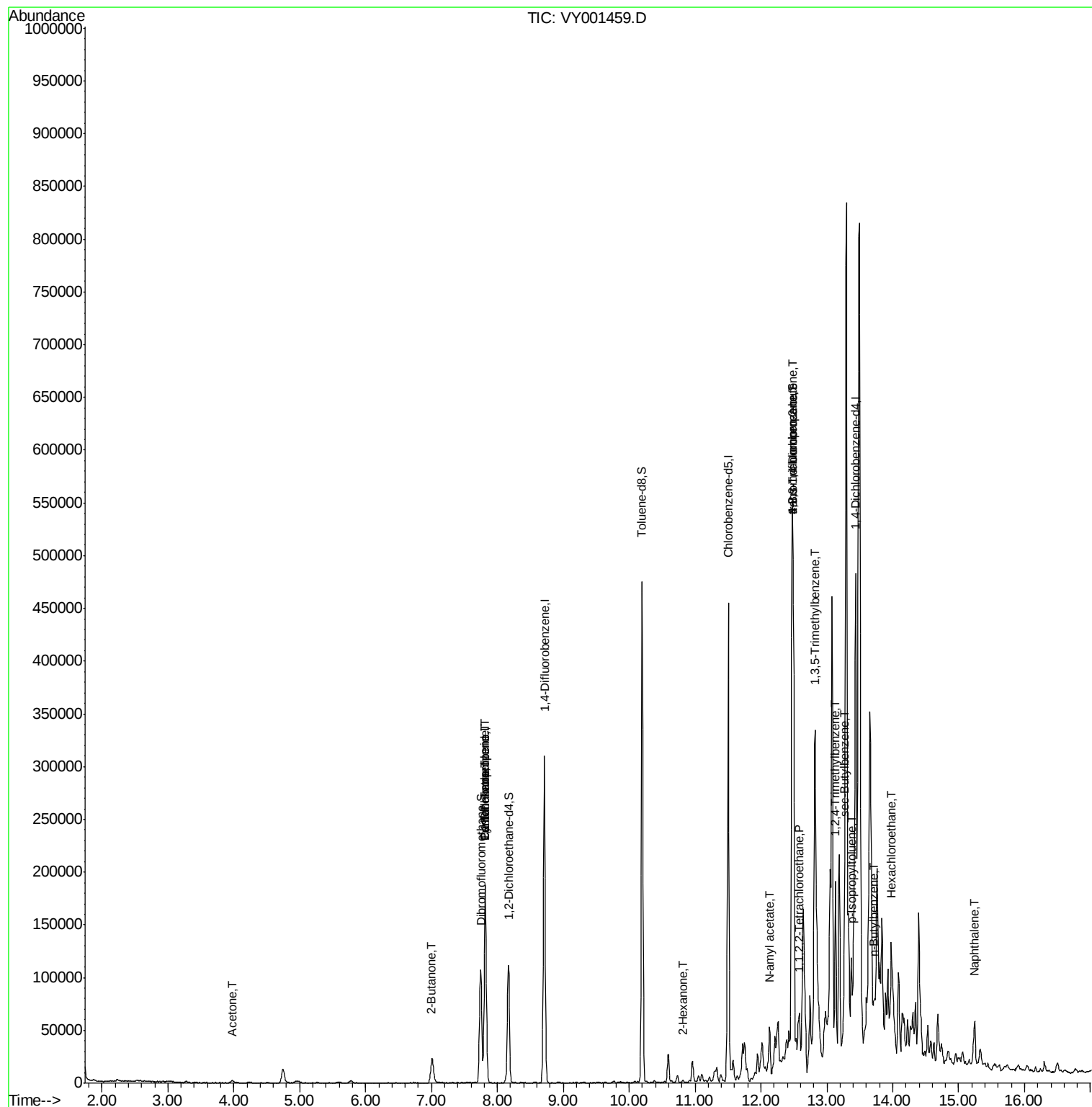
						Qvalue
11) Tert butyl alcohol	4.99	59	1535	Below Cal	#	87
16) Acetone	3.98	43	3959	2.16	ug/l	89
25) 2-Butanone	7.00	43	2145	3.17	ug/l #	49
31) Cyclohexane	7.82	56	3185	1.06	ug/l #	1
36) 1,1-Dichloropropene	7.82	75	11415	4.63	ug/l #	49
38) Carbon Tetrachloride	7.82	117	14264	6.49	ug/l #	16
59) 2-Hexanone	10.82	43	1280	1.22	ug/l #	26
74) N-amyl acetate	12.13	43	11163	4.37	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.57	83	2227	1.33	ug/l #	1
76) 1,2,3-Trichloropropane	12.49	75	53970	45.31	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.83	105	51454	7.90	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.49	75	53970	85.75	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.13	105	86770	13.28	ug/l	98
85) sec-Butylbenzene	13.27	105	14463	1.85	ug/l #	69
86) p-Isopropyltoluene	13.38	119	16221	2.36	ug/l	96
89) n-Butylbenzene	13.70	91	8158	1.18	ug/l #	64
90) Hexachloroethane	13.99	117	3290	2.53	ug/l #	15
95) Naphthalene	15.25	128	31950	6.79	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.01 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Instrument :

MSVOA_Y

ClientSampled :

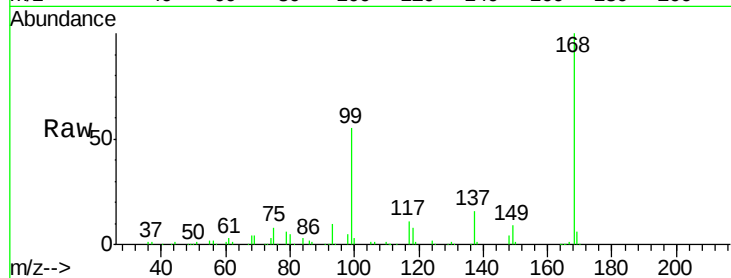
TAL-3

Tgt Ion: 168 Resp: 142746

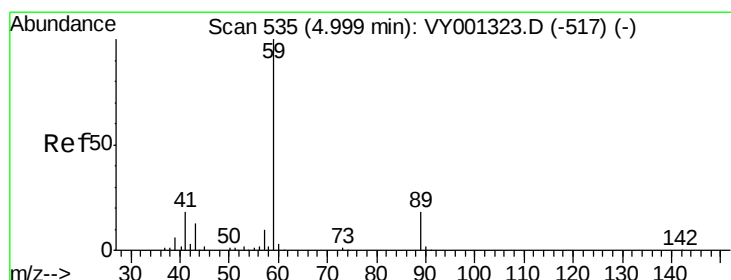
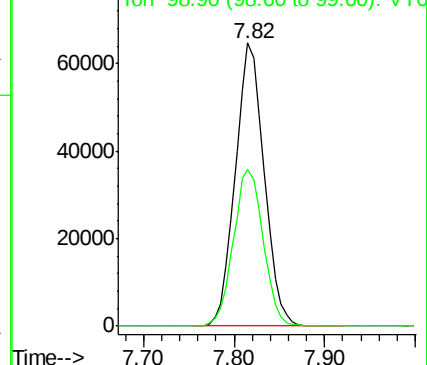
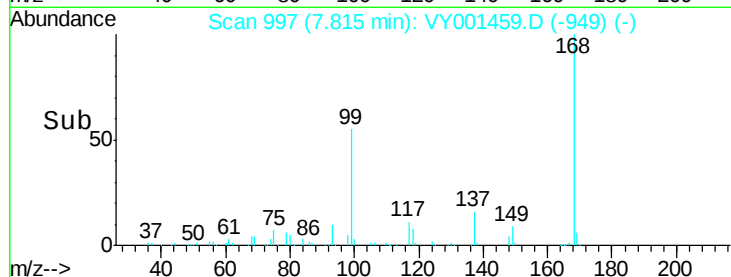
Ion Ratio Lower Upper

168 100

99 55.4 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001459.D (-949) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.99 min Scan# 534

Delta R.T. -0.01 min

Lab File: VY001459.D

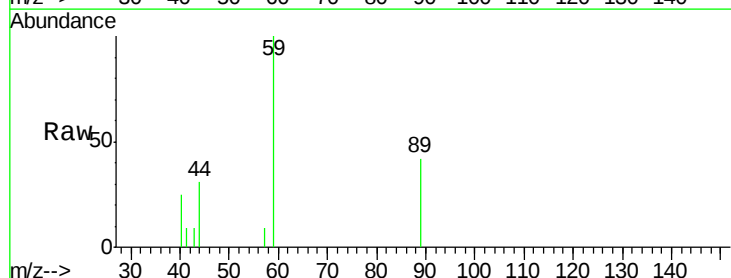
Acq: 31 Jan 2020 16:37

Tgt Ion: 59 Resp: 1535

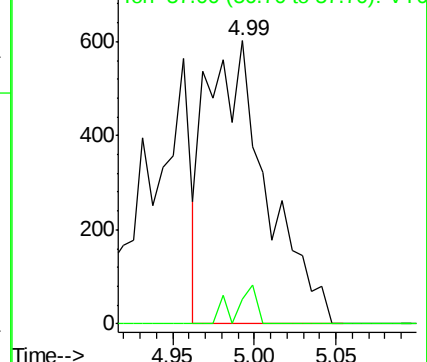
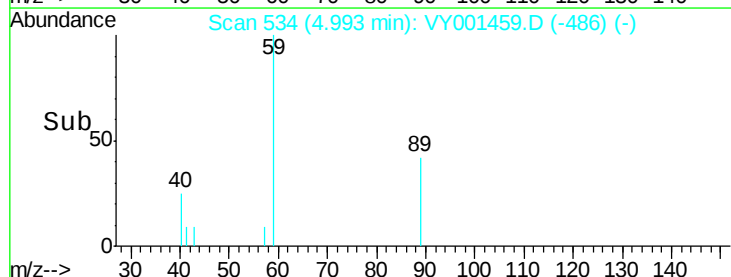
Ion Ratio Lower Upper

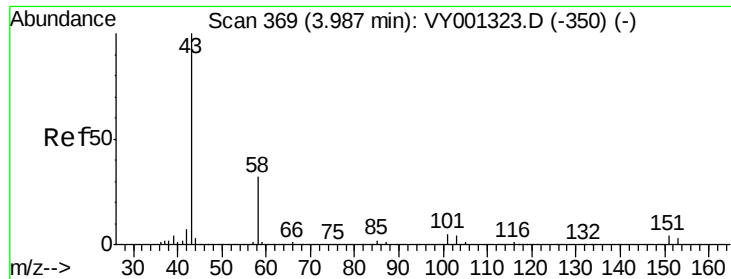
59 100

57 4.6 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001459.D (-486) (-)





#16

Acetone

Concen: 2.16 ug/l

RT: 3.98 min Scan# 368

Delta R.T. -0.01 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Instrument :

MSVOA_Y

ClientSampled :

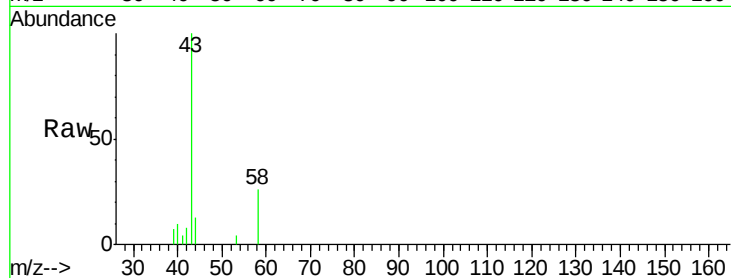
TAL-3

Tgt Ion: 43 Resp: 3959

Ion Ratio Lower Upper

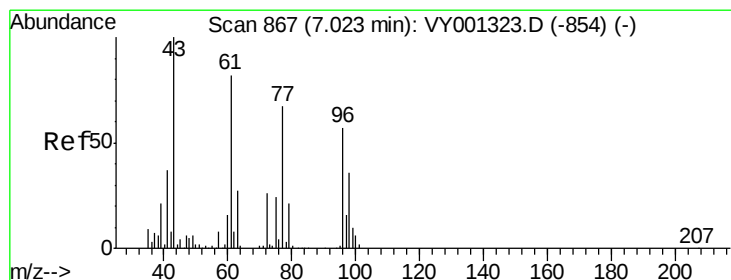
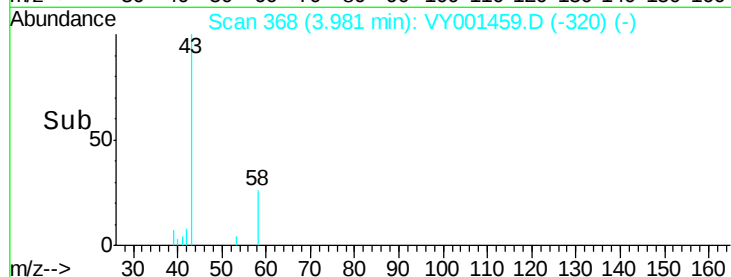
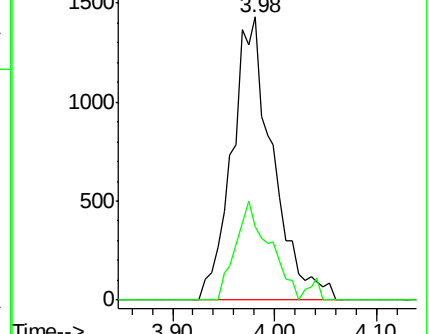
43 100

58 25.8 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: 3.17 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.02 min

Lab File: VY001459.D

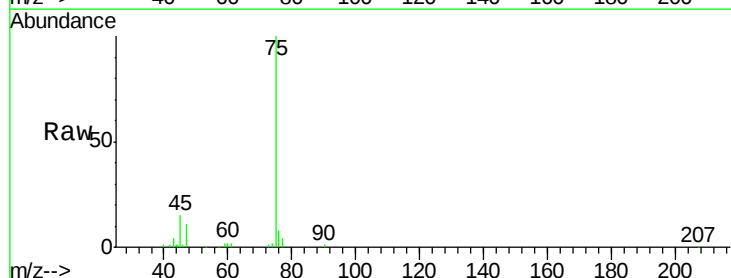
Acq: 31 Jan 2020 16:37

Tgt Ion: 43 Resp: 2145

Ion Ratio Lower Upper

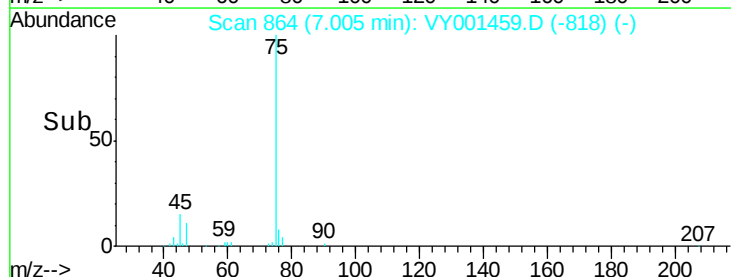
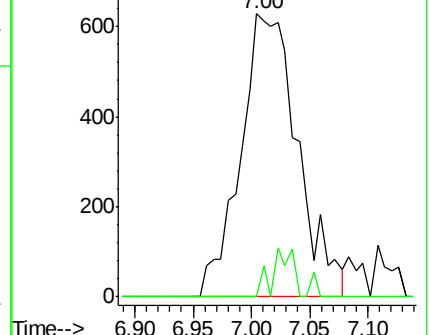
43 100

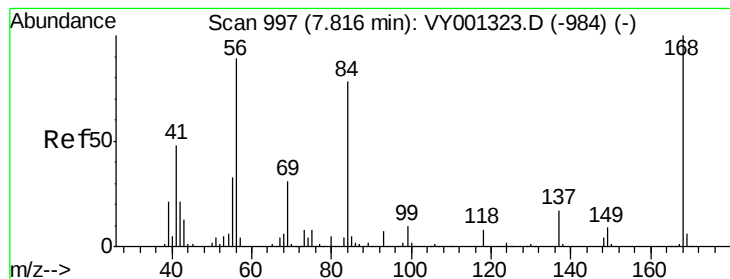
72 0.0 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0





#31

Cyclohexane

Concen: 1.06 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.00 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Instrument :

MSVOA_Y

ClientSampleId :

TAL-3

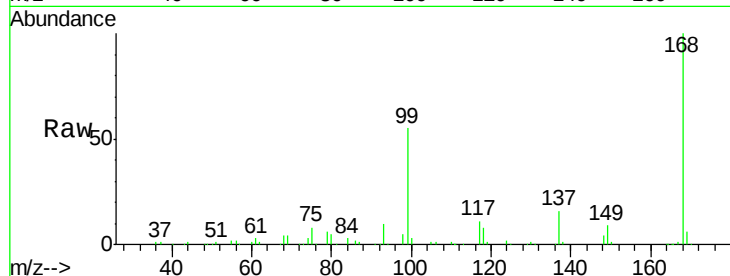
Tgt Ion: 56 Resp: 3185

Ion Ratio Lower Upper

56 100

69 178.8 27.6 41.4#

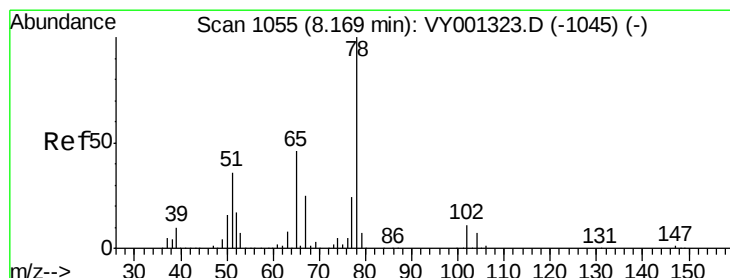
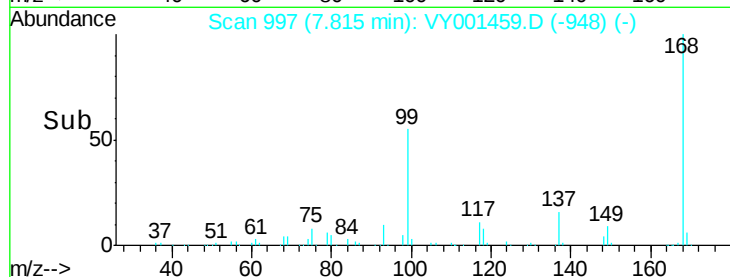
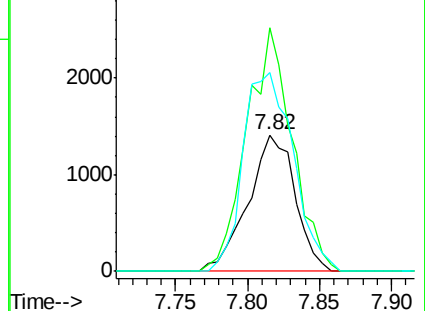
84 145.8 69.7 104.5#



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: 53.66 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VY001459.D

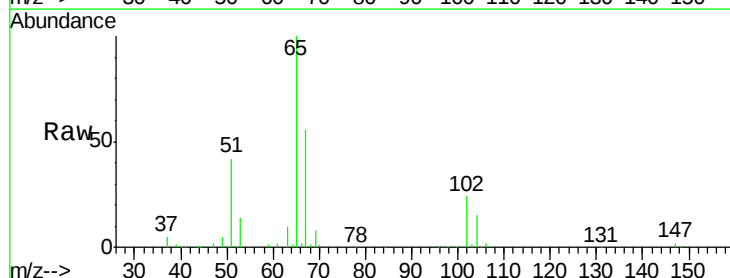
Acq: 31 Jan 2020 16:37

Tgt Ion: 65 Resp: 83351

Ion Ratio Lower Upper

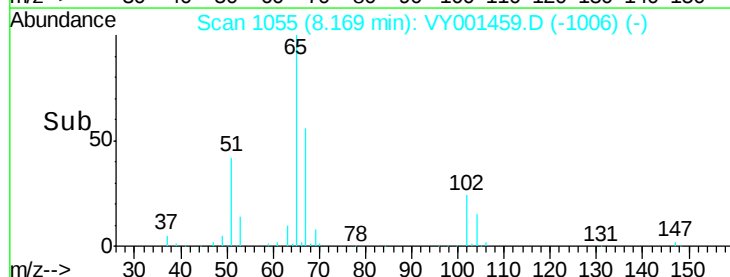
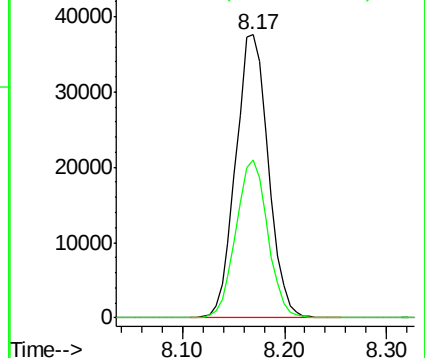
65 100

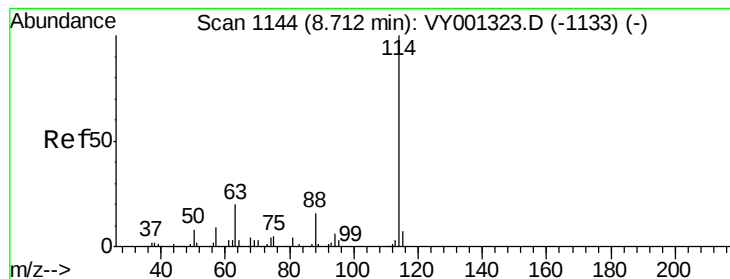
67 54.4 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.71 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Instrument :

MSVOA_Y

ClientSampleId :

TAL-3

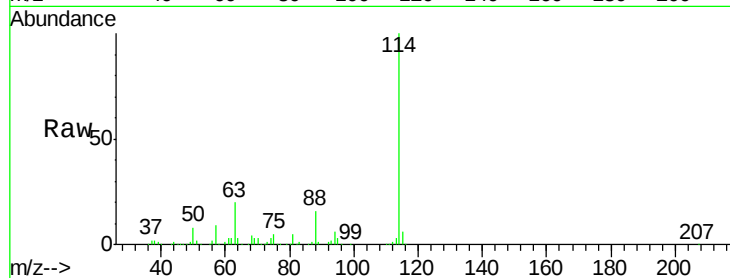
Tgt Ion:114 Resp: 261139

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

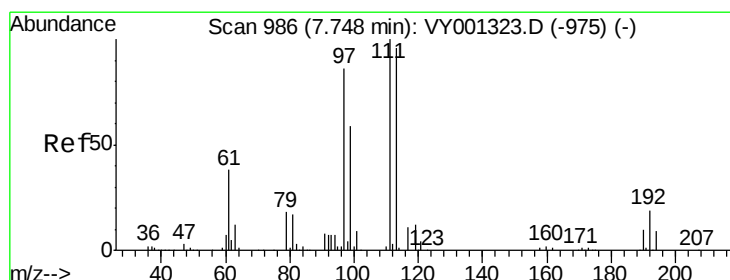
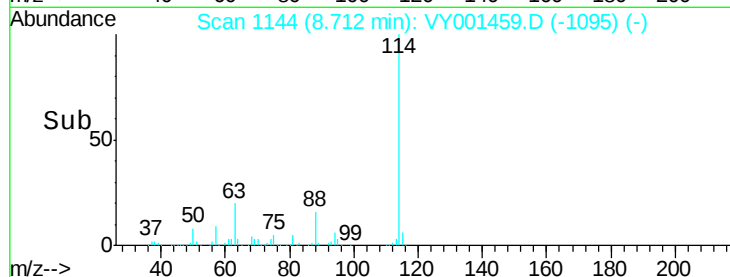
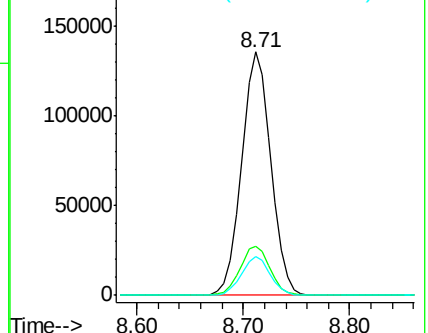
88 15.8 0.0 31.0



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: 50.75 ug/l

RT: 7.75 min Scan# 986

Delta R.T. -0.00 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

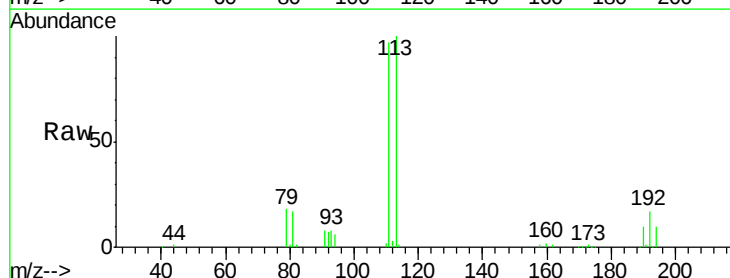
Tgt Ion:113 Resp: 77783

Ion Ratio Lower Upper

113 100

111 101.2 82.8 124.2

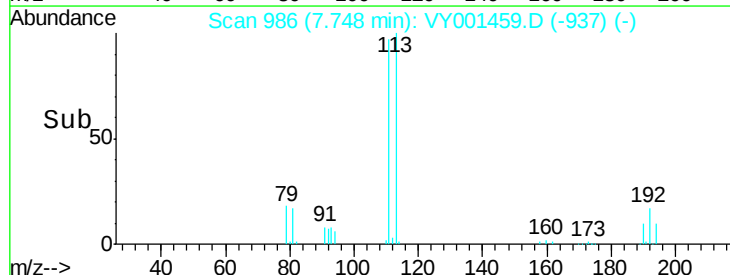
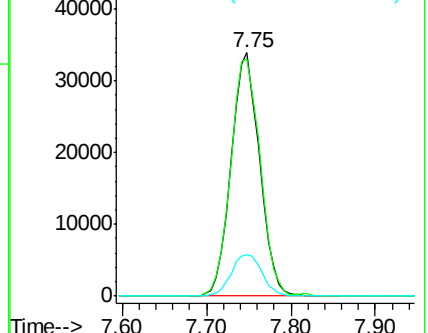
192 18.5 15.5 23.3

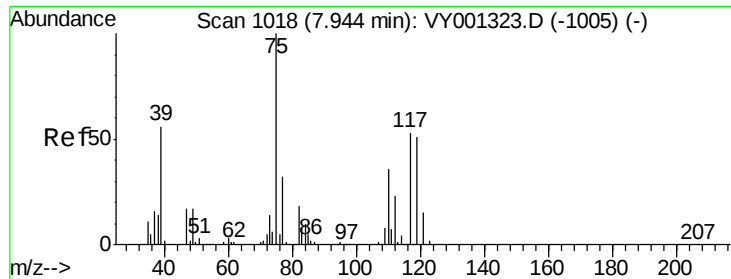


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

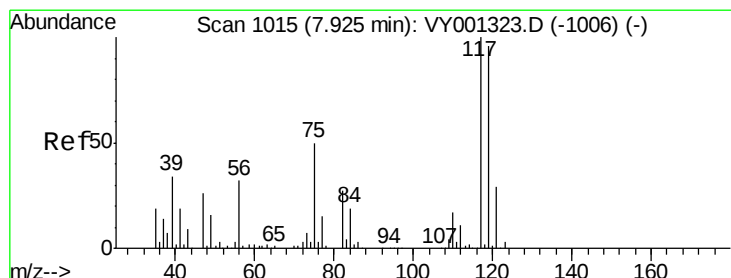
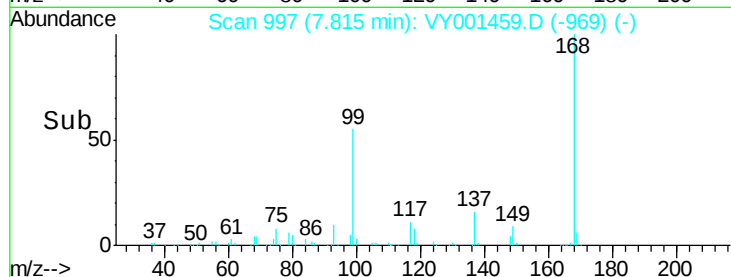
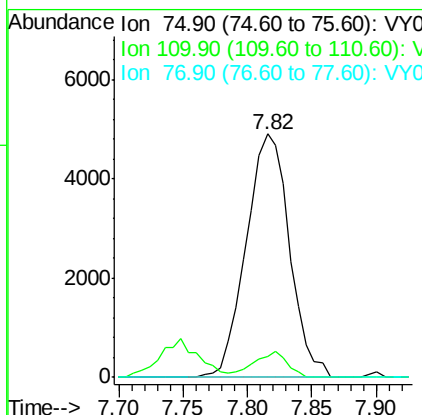
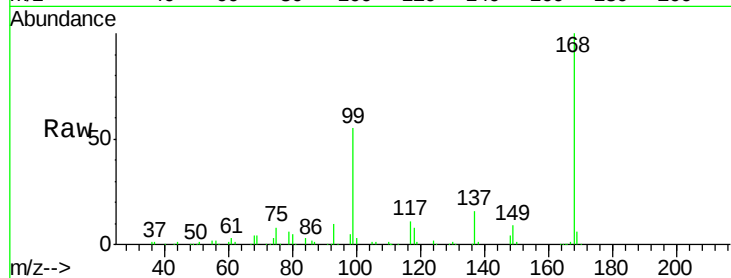




#36
 1,1-Dichloropropene
 Concen: 4.63 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.13 min
 Lab File: VY001459.D
 Acq: 31 Jan 2020 16:37

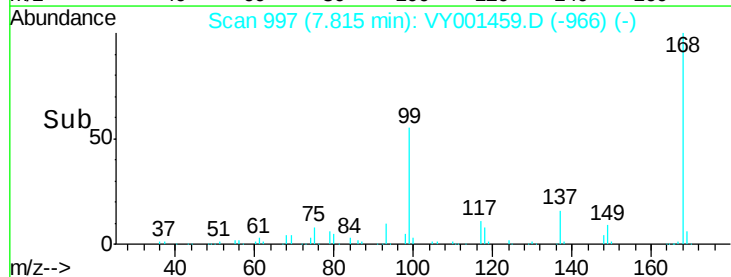
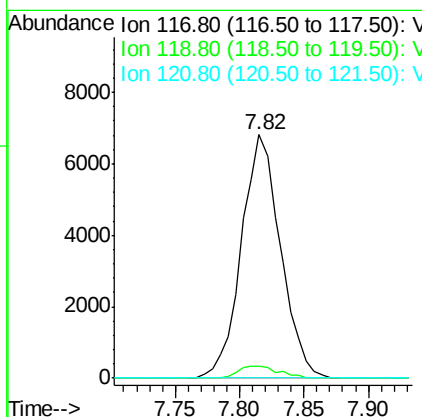
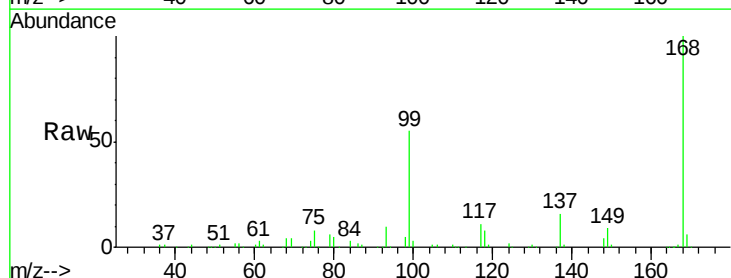
Instrument :
 MSVOA_Y
 ClientSampled :
 TAL-3

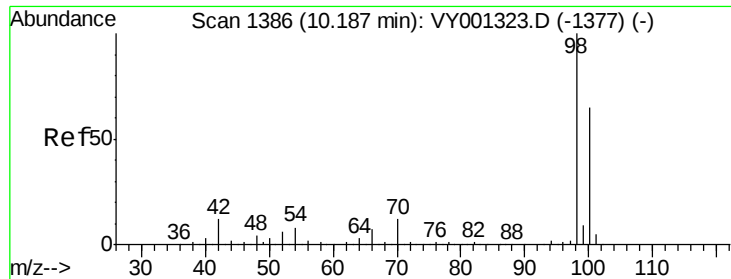
Tgt Ion: 75 Resp: 11415
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.6 52.8#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.49 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.11 min
 Lab File: VY001459.D
 Acq: 31 Jan 2020 16:37

Tgt Ion: 117 Resp: 14264
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.3 114.5#
 121 0.0 23.5 35.3#





#50

Toluene-d8

Concen: 51.63 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Instrument :

MSVOA_Y

ClientSampled :

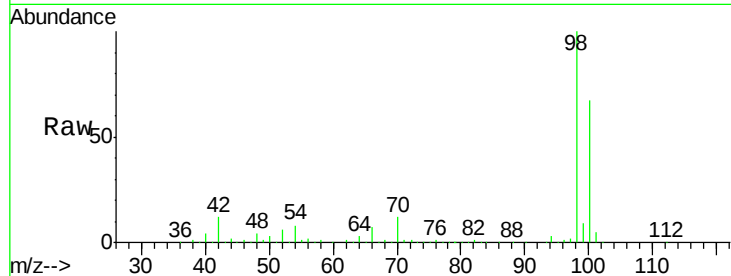
TAL-3

Tgt Ion: 98 Resp: 307448

Ion Ratio Lower Upper

98 100

100 66.5 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

10.19

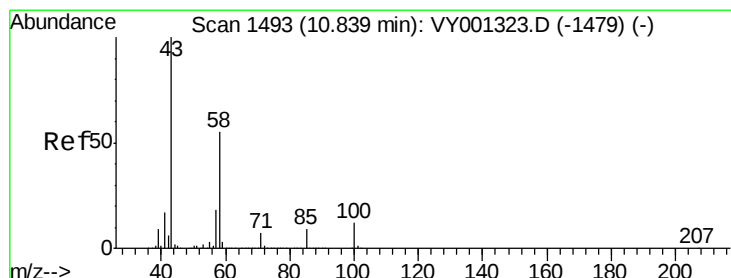
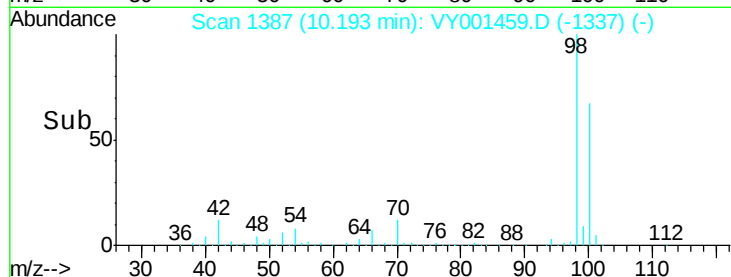
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 1.22 ug/l

RT: 10.82 min Scan# 1490

Delta R.T. -0.02 min

Lab File: VY001459.D

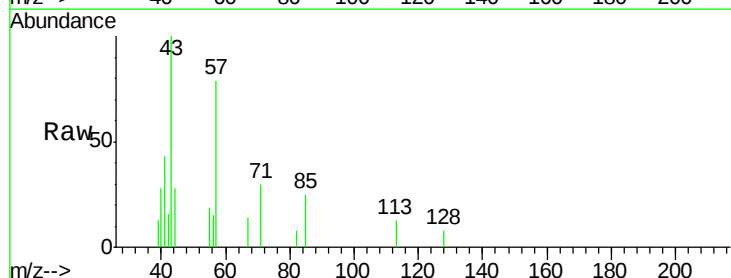
Acq: 31 Jan 2020 16:37

Tgt Ion: 43 Resp: 1280

Ion Ratio Lower Upper

43 100

58 1.5 27.6 82.8#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

10.82

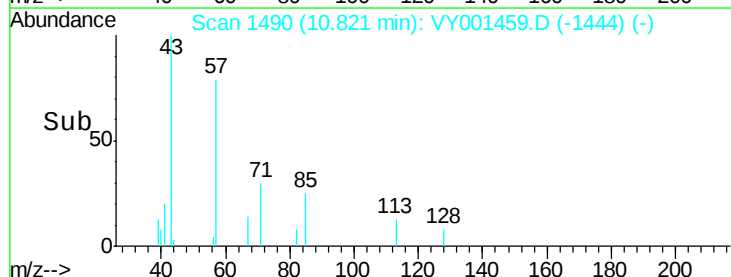
600

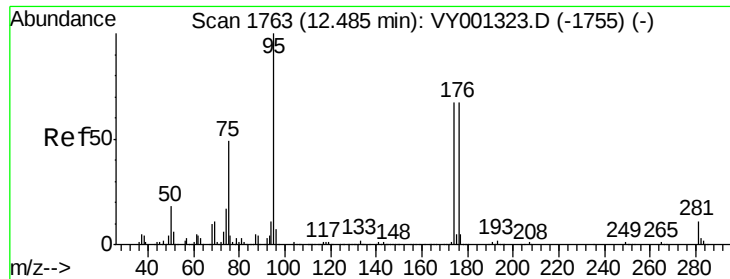
400

200

0

Time-->

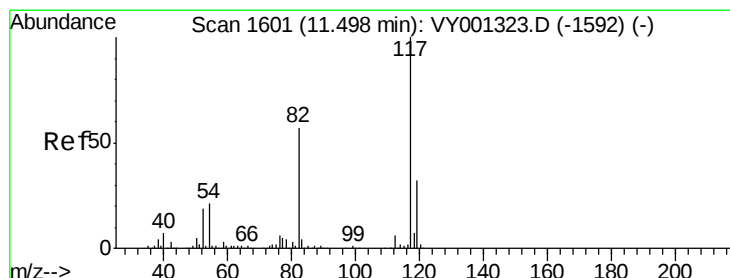
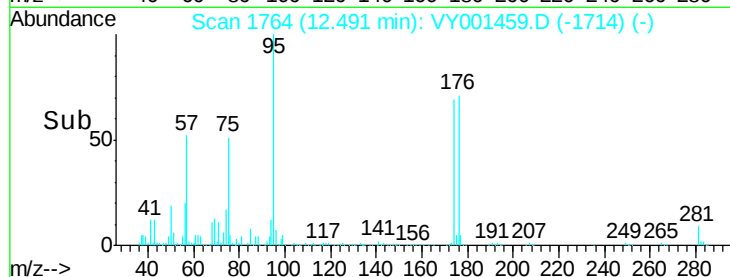
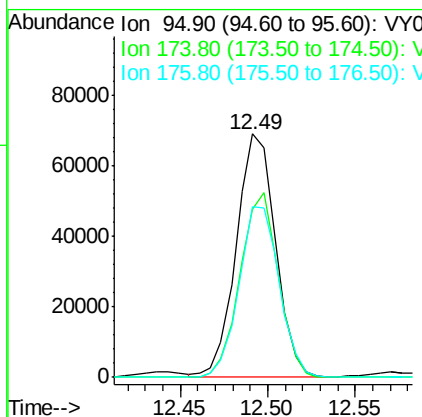
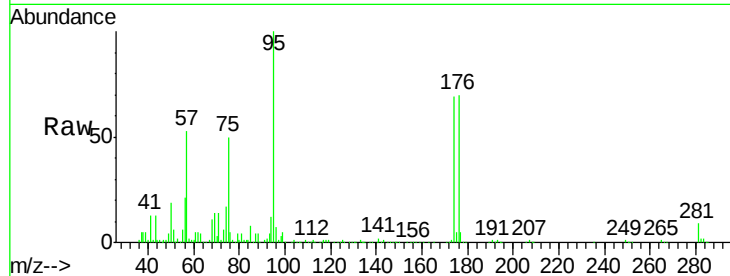




#62
4-Bromofluorobenzene
Concen: 45.04 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.01 min
Lab File: VY001459.D
Acq: 31 Jan 2020 16:37

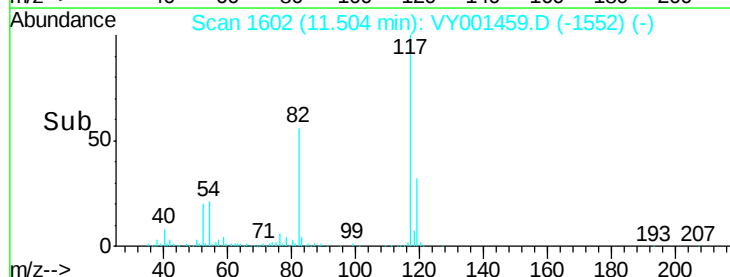
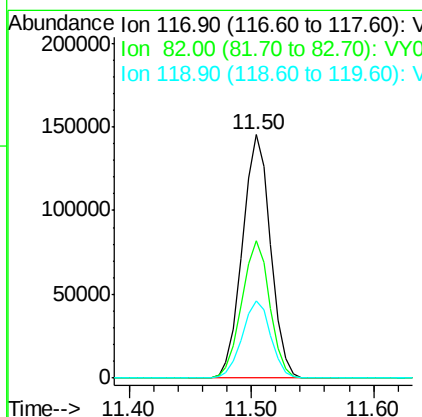
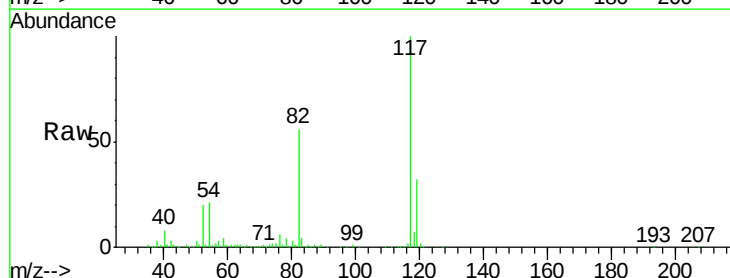
Instrument :
MSVOA_Y
ClientSampleId :
TAL-3

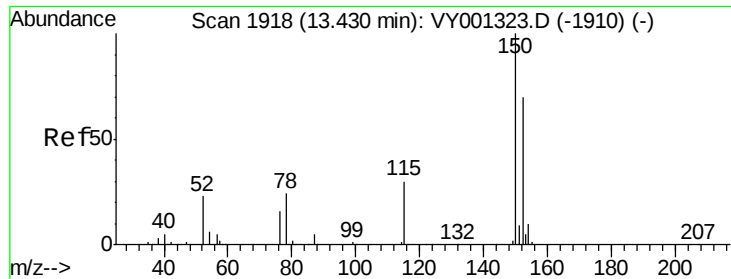
Tgt Ion: 95 Resp: 106808
Ion Ratio Lower Upper
95 100
174 74.4 0.0 142.0
176 72.4 0.0 138.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.01 min
Lab File: VY001459.D
Acq: 31 Jan 2020 16:37

Tgt Ion: 117 Resp: 231395
Ion Ratio Lower Upper
117 100
82 56.2 45.5 68.3
119 31.7 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.01 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Instrument :

MSVOA_Y

ClientSampled :

TAL-3

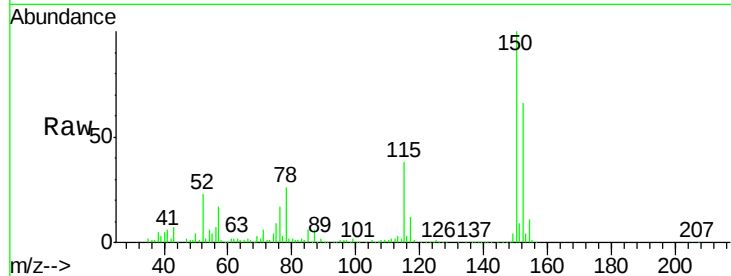
Tgt Ion:152 Resp: 98840

Ion Ratio Lower Upper

152 100

115 62.7 30.9 92.8

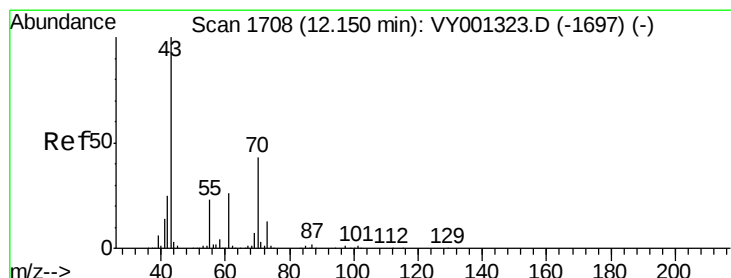
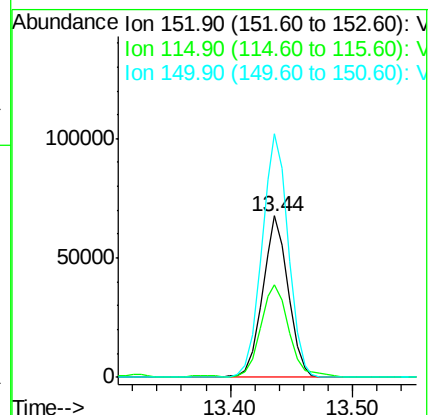
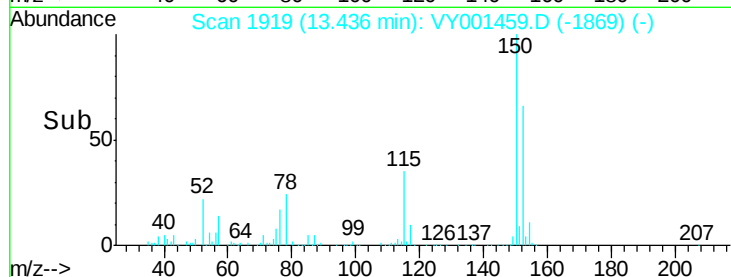
150 154.6 0.0 349.2



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-amil acetate

Concen: 4.37 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.02 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Tgt Ion: 43 Resp: 11163

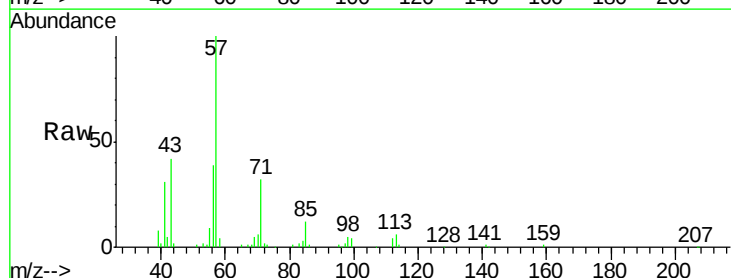
Ion Ratio Lower Upper

43 100

70 11.5 33.5 50.3#

55 0.0 18.2 27.2#

61 0.0 19.6 29.4#

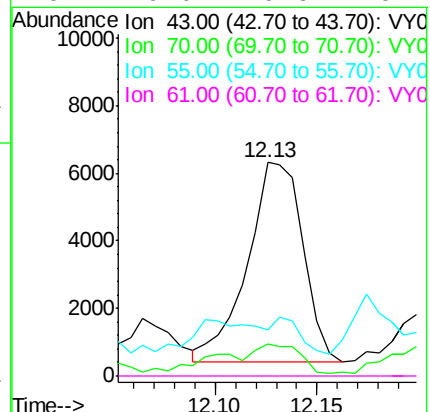
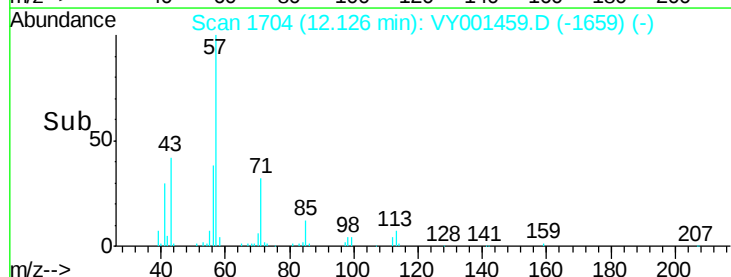


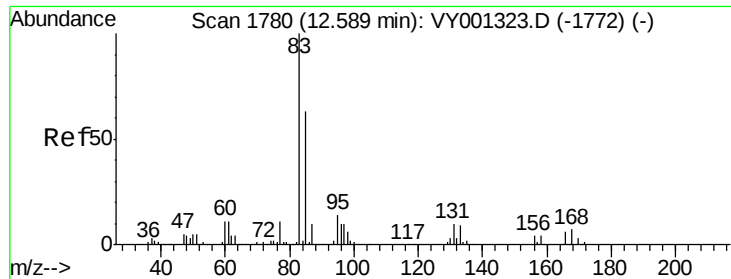
Abundance Ion 43.00 (42.70 to 43.70): VY0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 1.33 ug/l

RT: 12.57 min Scan# 1777

Delta R.T. -0.02 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Instrument :

MSVOA_Y

ClientSampled :

TAL-3

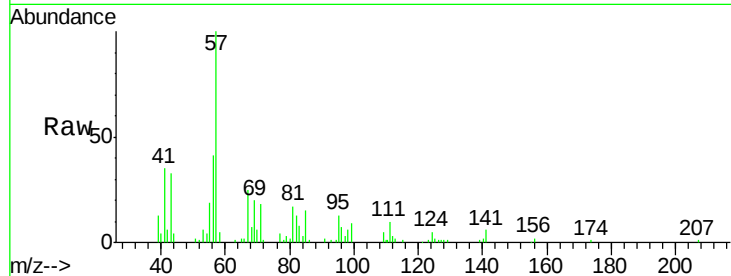
Tgt Ion: 83 Resp: 2227

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.6#

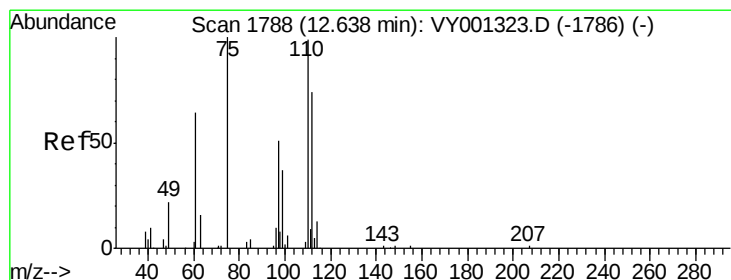
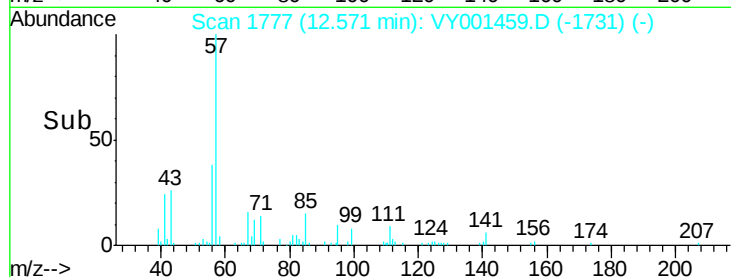
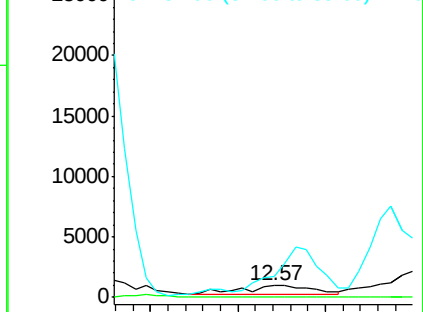
85 366.6 31.4 94.3#



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 130.80 (130.50 to 131.50): VY0

Ion 84.90 (84.60 to 85.60): VY0



#76

1,2,3-Trichloropropane

Concen: 45.31 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001459.D

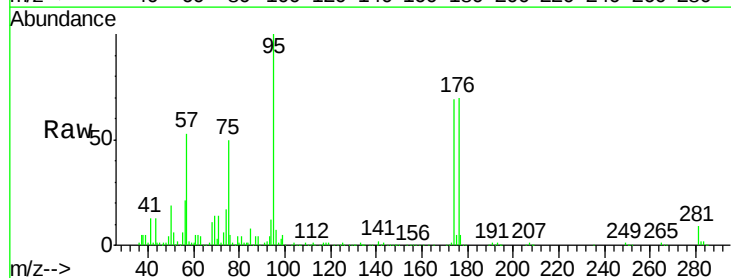
Acq: 31 Jan 2020 16:37

Tgt Ion: 75 Resp: 53970

Ion Ratio Lower Upper

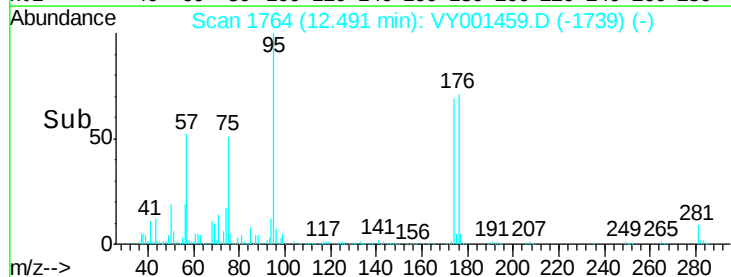
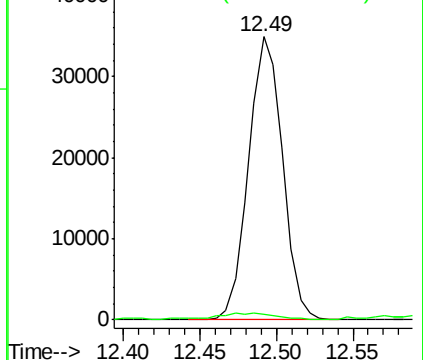
75 100

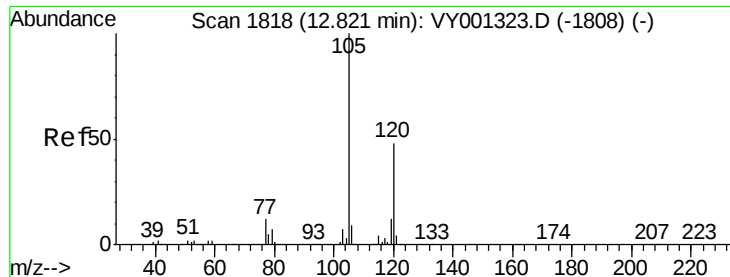
77 3.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#80

1,3,5-Trimethylbenzene

Concen: 7.90 ug/l

RT: 12.83 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Instrument :

MSVOA_Y

ClientSampled :

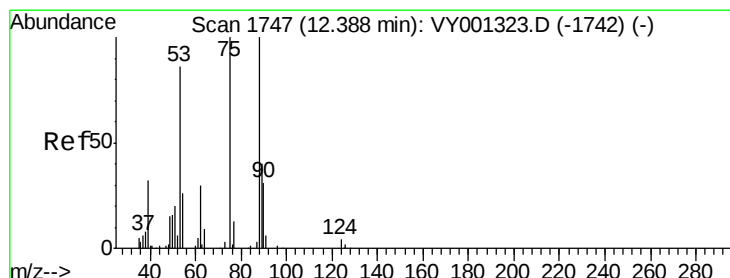
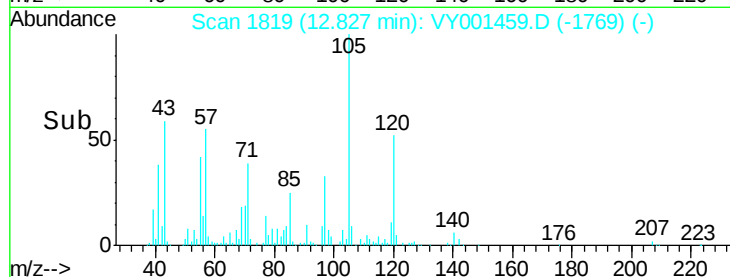
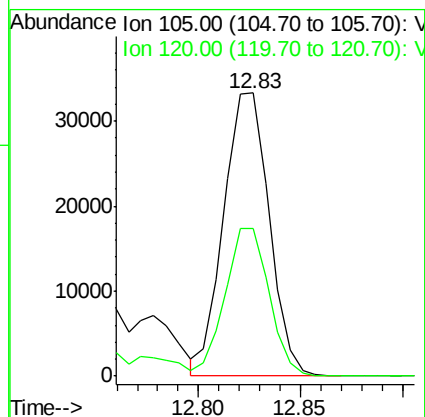
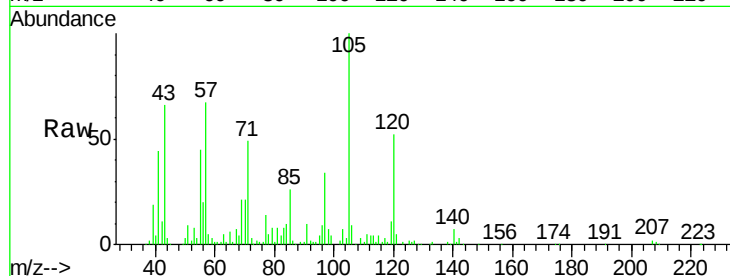
TAL-3

Tgt Ion: 105 Resp: 51454

Ion Ratio Lower Upper

105 100

120 50.6 24.3 72.9



#81

trans-1,4-Dichloro-2-butene

Concen: 85.75 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

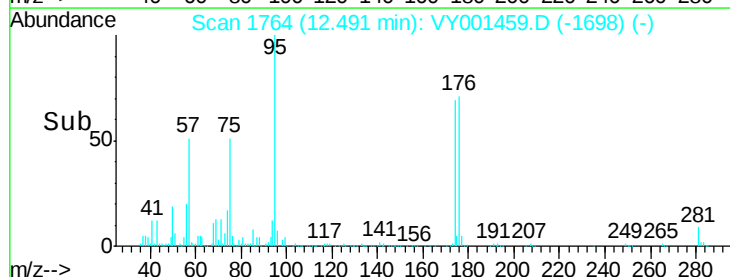
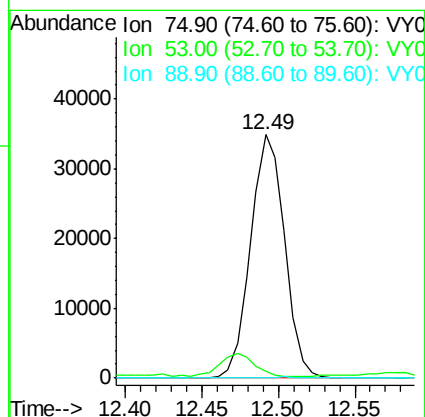
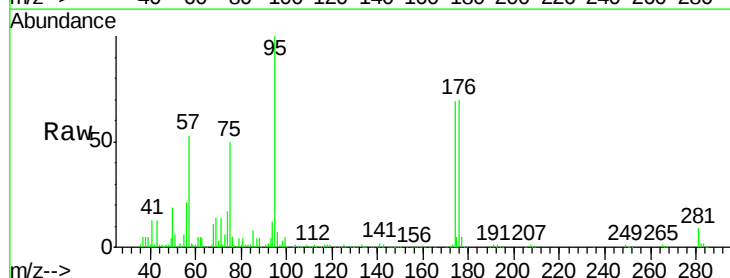
Tgt Ion: 75 Resp: 53970

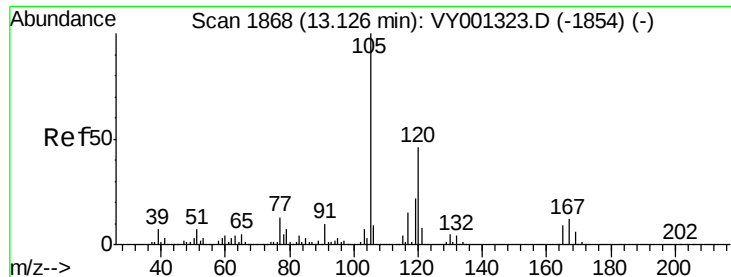
Ion Ratio Lower Upper

75 100

53 0.0 69.9 104.9#

89 0.3 36.6 54.8#

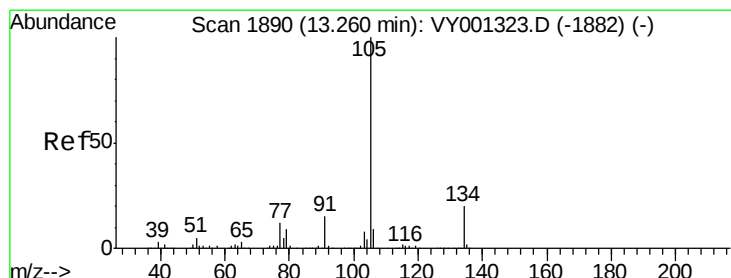
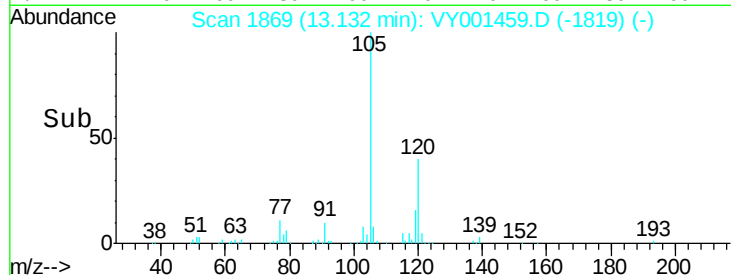
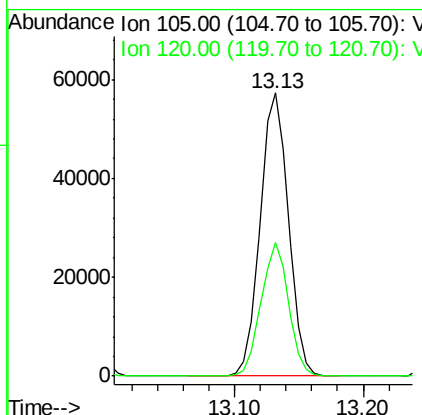
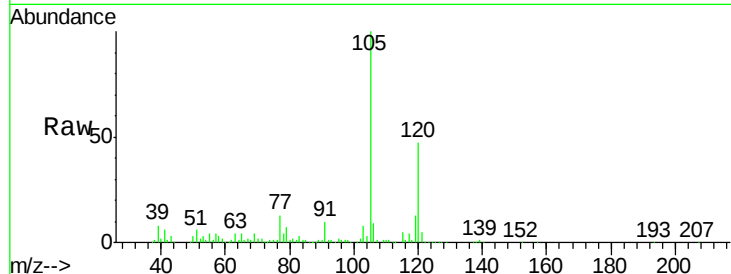




#84
 1,2,4-Trimethylbenzene
 Concen: 13.28 ug/l
 RT: 13.13 min Scan# 1869
 Delta R.T. 0.01 min
 Lab File: VY001459.D
 Acq: 31 Jan 2020 16:37

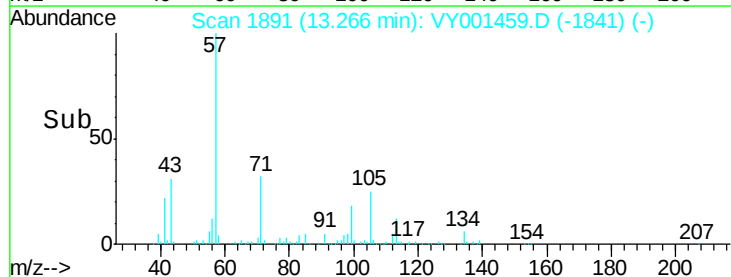
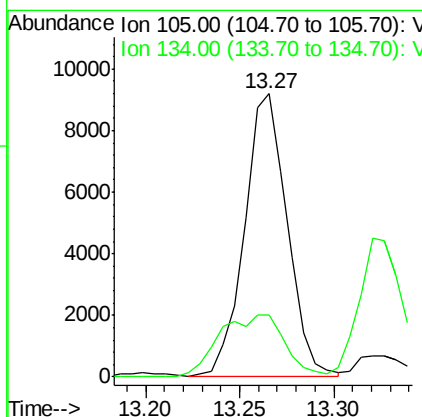
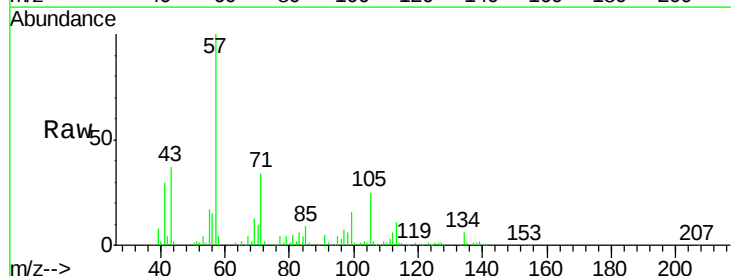
Instrument :
 MSVOA_Y
 ClientSampled :
 TAL-3

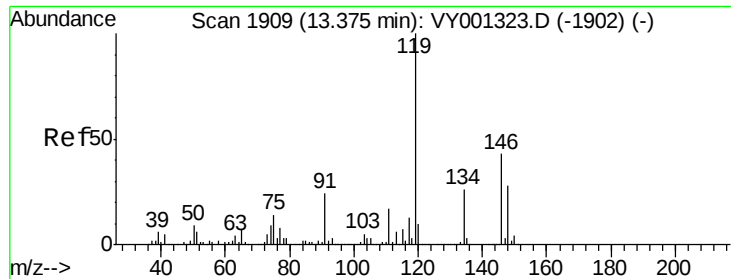
Tgt Ion:105 Resp: 86770
 Ion Ratio Lower Upper
 105 100
 120 45.9 22.4 67.3



#85
 sec-Butylbenzene
 Concen: 1.85 ug/l
 RT: 13.27 min Scan# 1891
 Delta R.T. 0.01 min
 Lab File: VY001459.D
 Acq: 31 Jan 2020 16:37

Tgt Ion:105 Resp: 14463
 Ion Ratio Lower Upper
 105 100
 134 33.6 9.8 29.4#

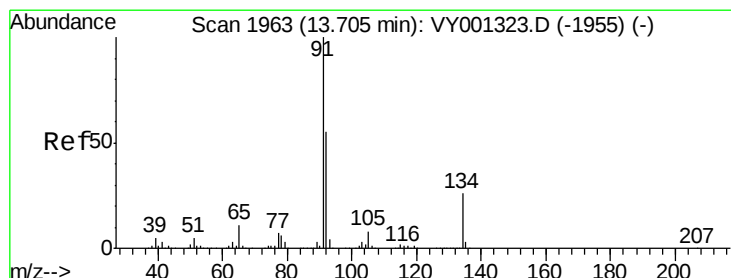
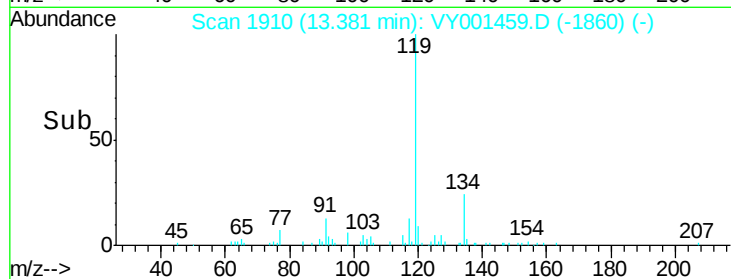
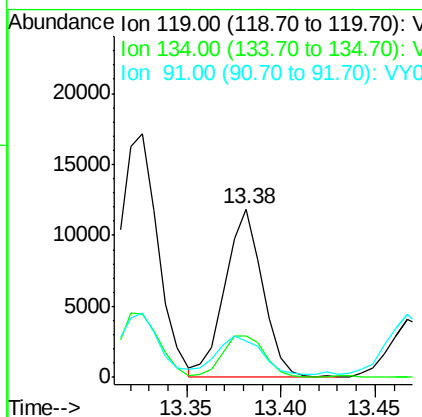
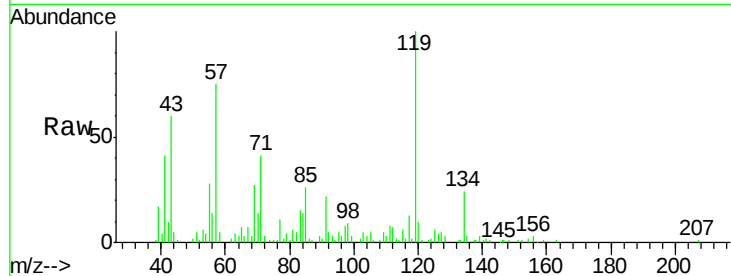




#86
p-Isopropyltoluene
Concen: 2.36 ug/l
RT: 13.38 min Scan# 1910
Delta R.T. 0.01 min
Lab File: VY001459.D
Acq: 31 Jan 2020 16:37

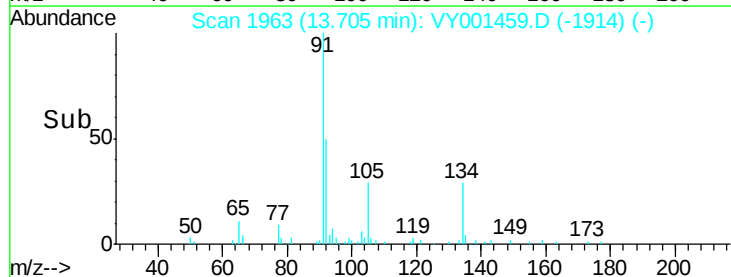
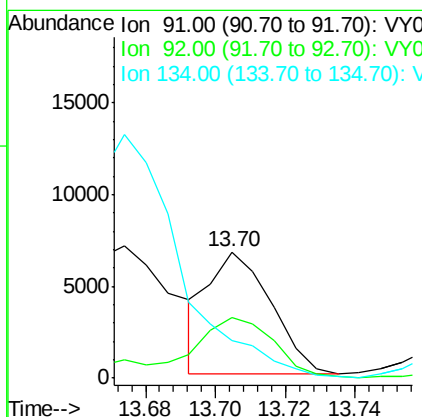
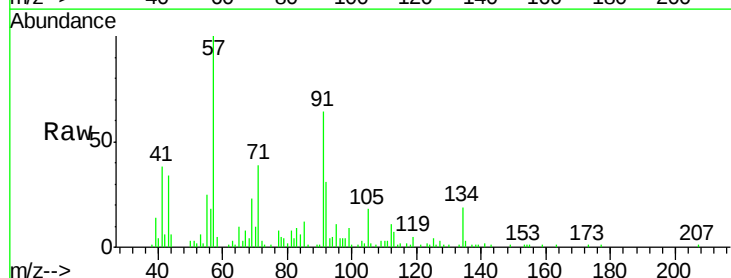
Instrument :
MSVOA_Y
ClientSampled :
TAL-3

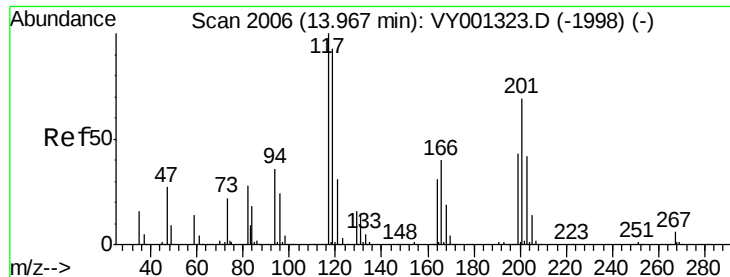
Tgt Ion: 119 Resp: 16221
Ion Ratio Lower Upper
119 100
134 28.4 13.5 40.4
91 27.4 12.2 36.6



#89
n-Butylbenzene
Concen: 1.18 ug/l
RT: 13.70 min Scan# 1963
Delta R.T. -0.00 min
Lab File: VY001459.D
Acq: 31 Jan 2020 16:37

Tgt Ion: 91 Resp: 8158
Ion Ratio Lower Upper
91 100
92 76.3 27.6 82.8
134 0.0 12.9 38.6#





#90

Hexachloroethane

Concen: 2.53 ug/l

RT: 13.99 min Scan# 2009

Delta R.T. 0.02 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

Instrument :

MSVOA_Y

ClientSampleId :

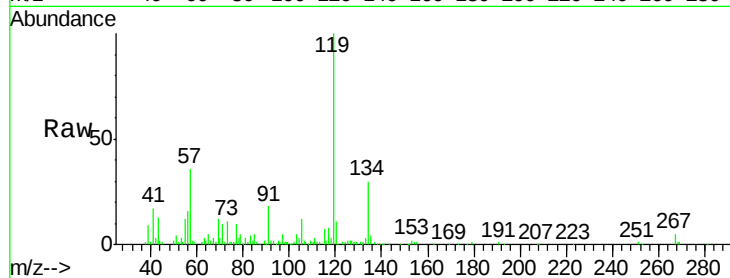
TAL-3

Tgt Ion:117 Resp: 3290

Ion Ratio Lower Upper

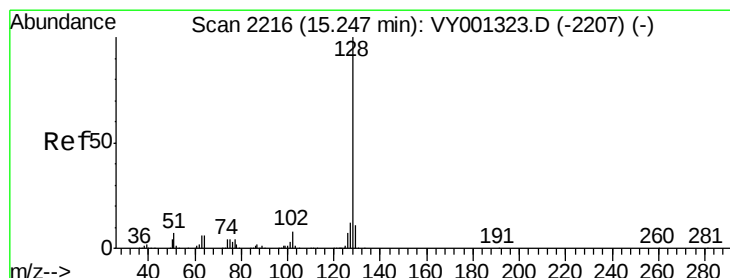
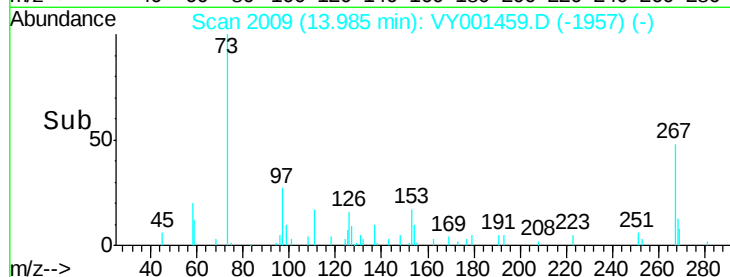
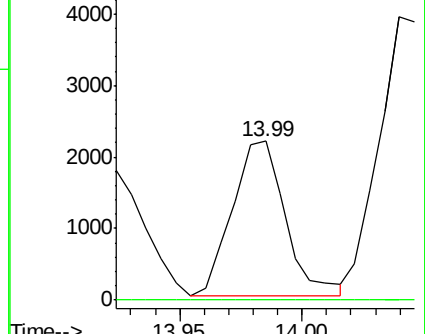
117 100

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



#95

Naphthalene

Concen: 6.79 ug/l

RT: 15.25 min Scan# 2216

Delta R.T. -0.00 min

Lab File: VY001459.D

Acq: 31 Jan 2020 16:37

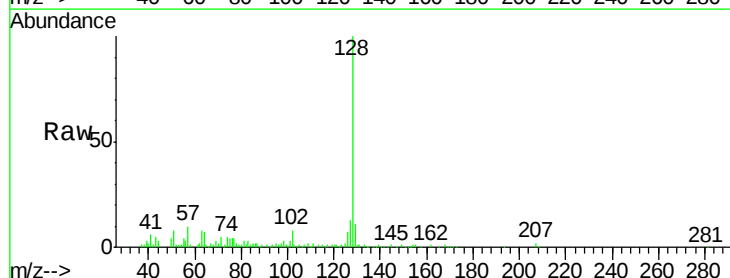
Tgt Ion:128 Resp: 31950

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.2

129 12.1 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

