

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY122719\
 Data File : VY001094.D
 Acq On : 27 Dec 2019 13:53
 Operator : SY/MD
 Sample : K6439-16
 Misc : 5.07G/5ML/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LIED-BF013-01

Quant Time: Dec 28 04:02:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y122319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 23 12:07:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	37211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	67833	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	56458	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	22602	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	18760	51.12	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.72	113	19731	49.40	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.18	98	76130	48.77	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.47	95	22881	40.09	ug/l	0.00
Spiked Amount						

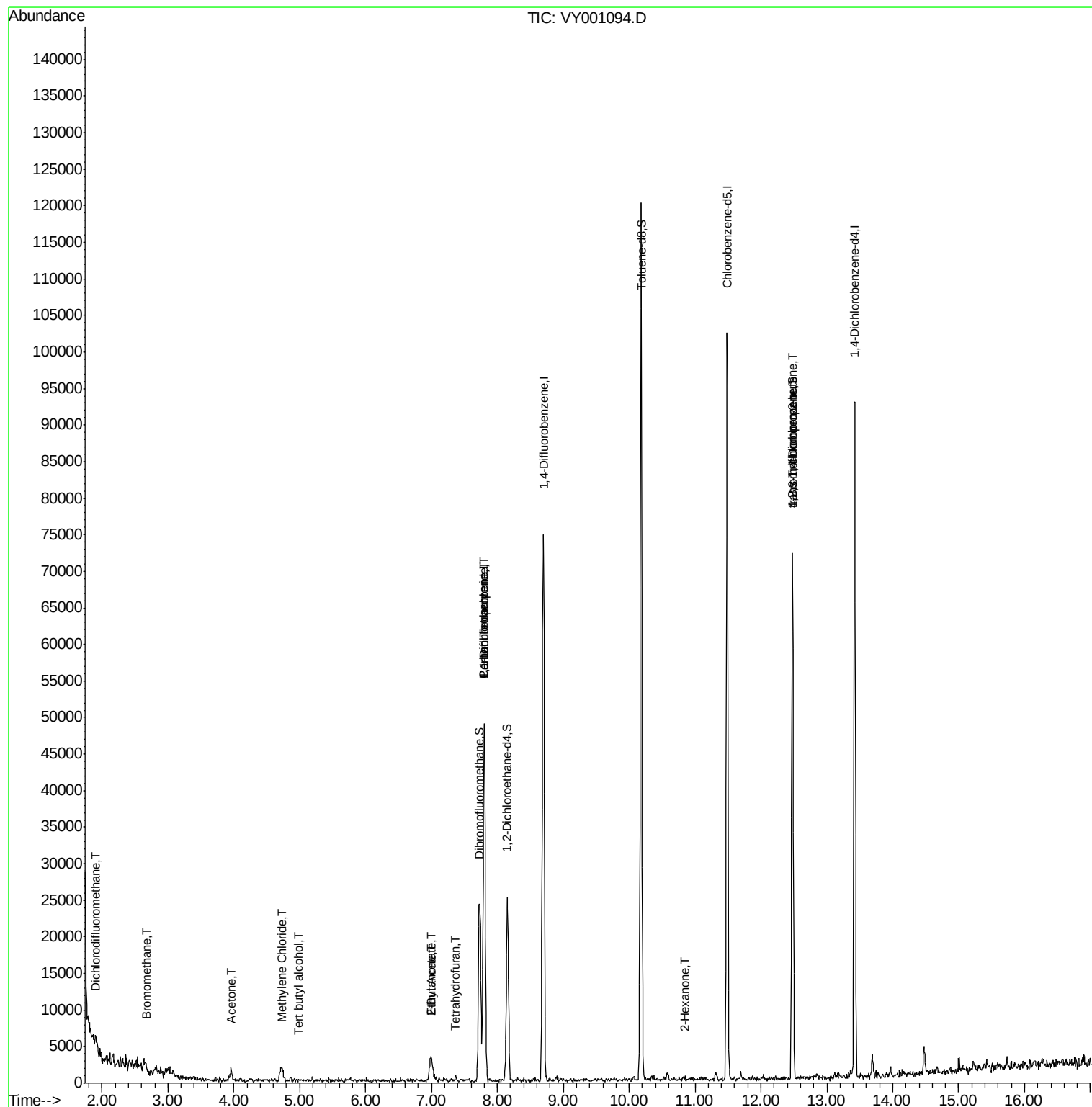
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	1190	3.670	ug/l #	64
5) Bromomethane	2.67	94	157	1.259	ug/l #	3
11) Tert butyl alcohol	4.97	59	66	1.636	ug/l #	74
16) Acetone	3.96	43	2376	28.102	ug/l #	78
20) Methylene Chloride	4.73	84	840	1.688	ug/l #	59
25) 2-Butanone	7.01	43	518	3.488	ug/l #	47
29) Tetrahydrofuran	7.37	42	237	2.243	ug/l #	88
36) 1,1-Dichloropropene	7.80	75	3526	5.449	ug/l #	46
37) Ethyl Acetate	7.01	43	518	1.446	ug/l #	78
38) Carbon Tetrachloride	7.80	117	3612	6.371	ug/l #	13
59) 2-Hexanone	10.85	43	244	1.020	ug/l	88
76) 1,2,3-Trichloropropane	12.48	75	11105	39.855	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	11105	85.001	ug/l #	19

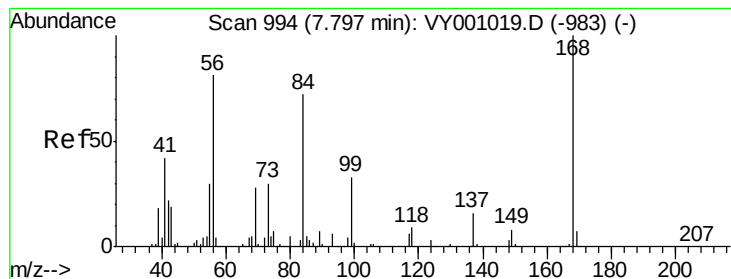
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

Instrument :

MSVOA_Y

ClientSampleId :

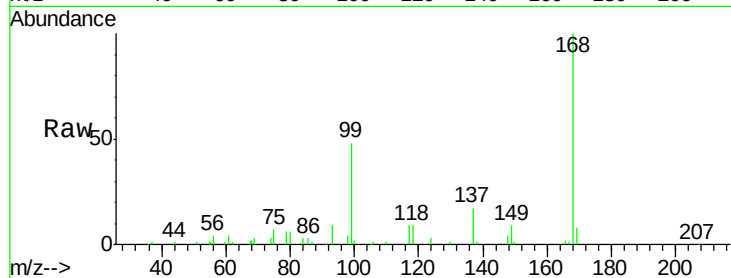
LIED-BF013-01

Tgt Ion:168 Resp: 37211

Ion Ratio Lower Upper

168 100

99 48.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VY001019.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY001019.D (-983) (-)

7.80

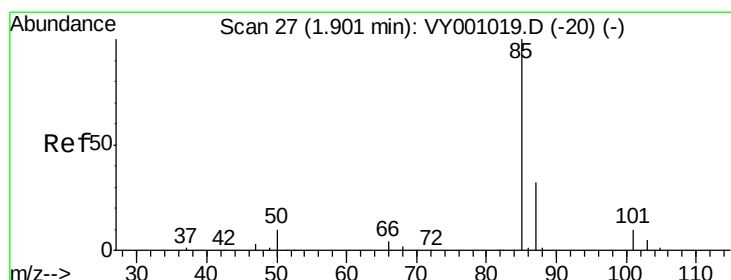
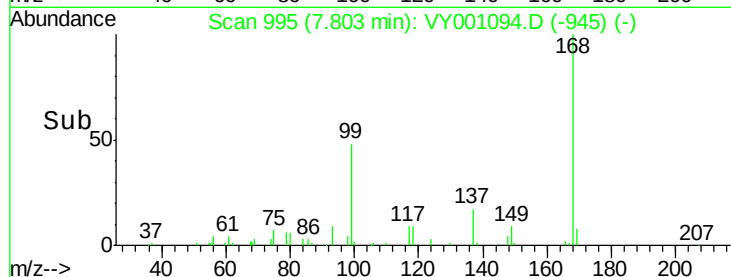
15000

10000

5000

0

Time--> 7.70 7.75 7.80 7.85 7.90



#2

Dichlorodifluoromethane

Concen: 3.670 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY001094.D

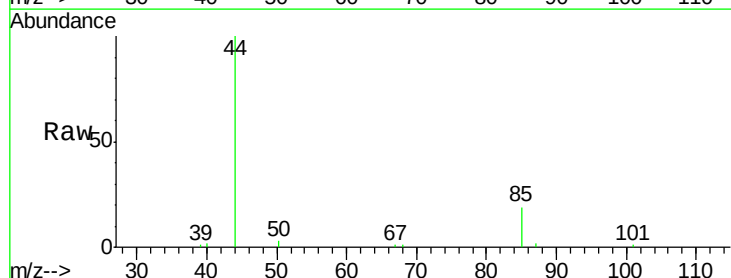
Acq: 27 Dec 2019 13:53

Tgt Ion: 85 Resp: 1190

Ion Ratio Lower Upper

85 100

87 11.9 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VY001019.D (-20) (-)

Ion 86.90 (86.60 to 87.60): VY001019.D (-20) (-)

1.91

1000

800

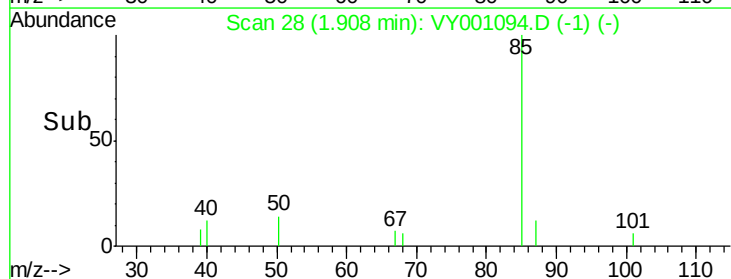
600

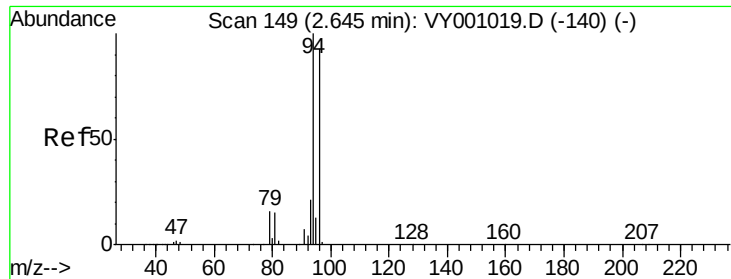
400

200

0

Time--> 1.85 1.90 1.95





#5

Bromomethane

Concen: 1.259 ug/l

RT: 2.67 min Scan# 153

Delta R.T. 0.02 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

Instrument :

MSVOA_Y

ClientSampleId :

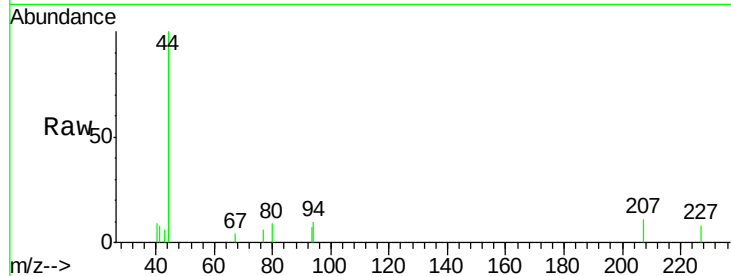
LIED-BF013-01

Tgt Ion: 94 Resp: 157

Ion Ratio Lower Upper

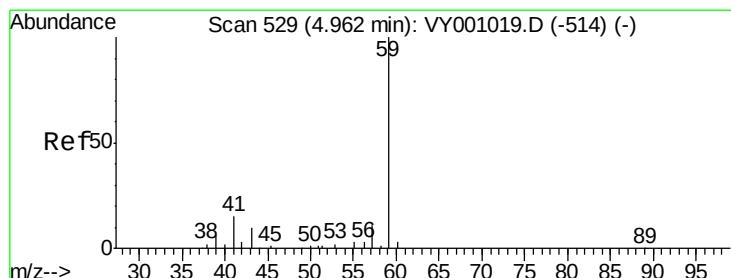
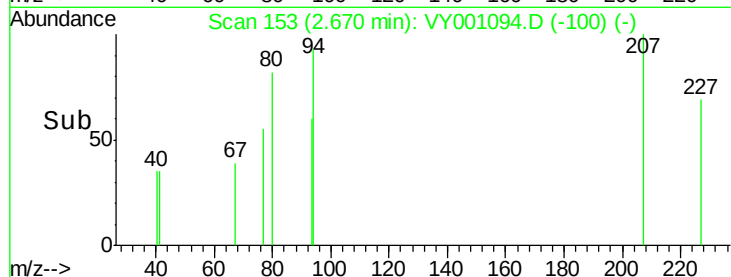
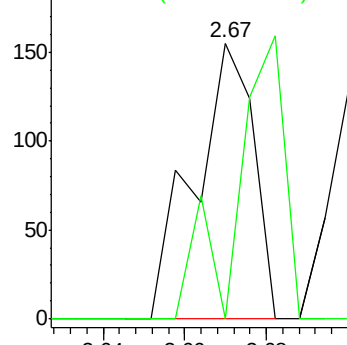
94 100

96 0.0 74.2 111.4#



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#11

Tert butyl alcohol

Concen: 1.636 ug/l

RT: 4.97 min Scan# 531

Delta R.T. 0.01 min

Lab File: VY001094.D

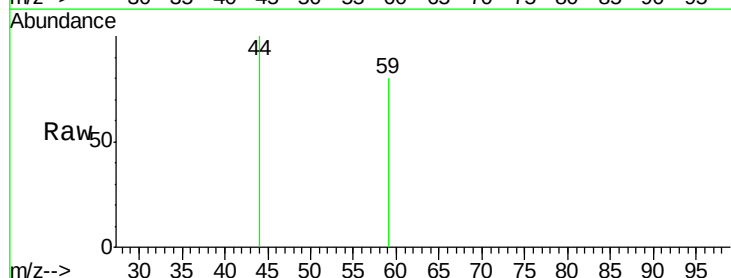
Acq: 27 Dec 2019 13:53

Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

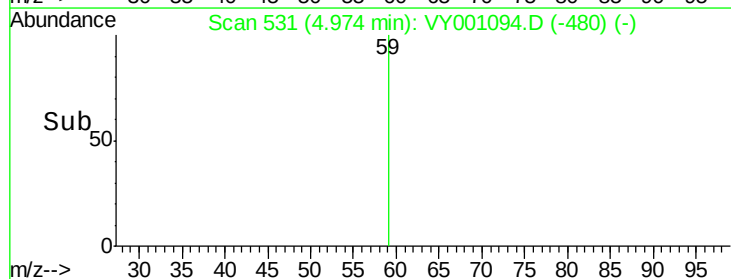
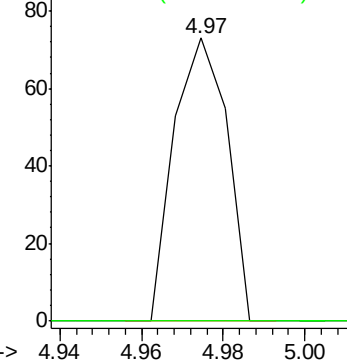
59 100

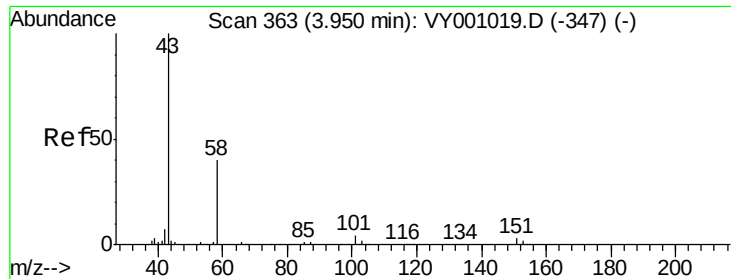
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 28.102 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

Instrument :

MSVOA_Y

ClientSampleId :

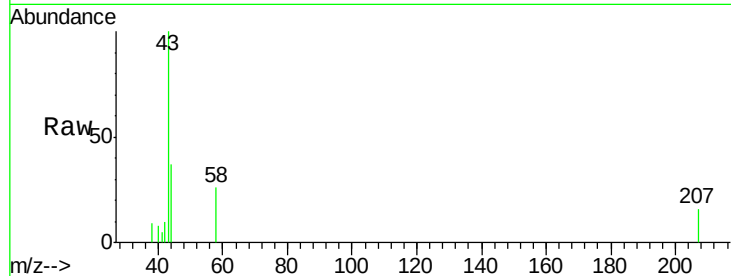
LIED-BF013-01

Tgt Ion: 43 Resp: 2376

Ion Ratio Lower Upper

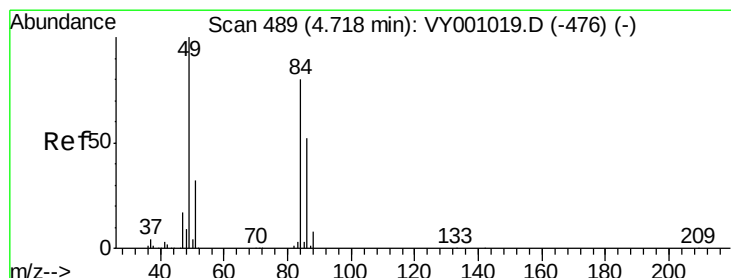
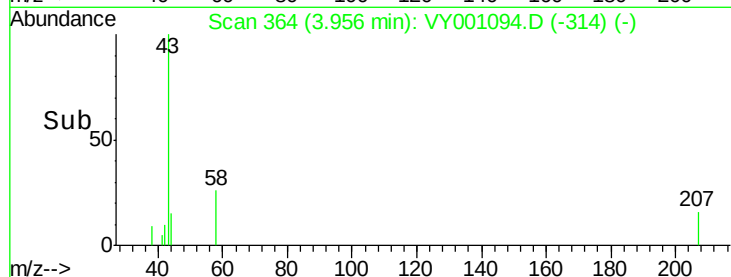
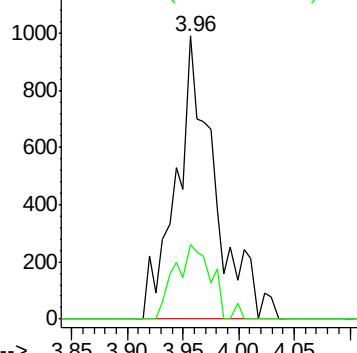
43 100

58 26.5 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#20

Methylene Chloride

Concen: 1.688 ug/l

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

Tgt Ion: 84 Resp: 840

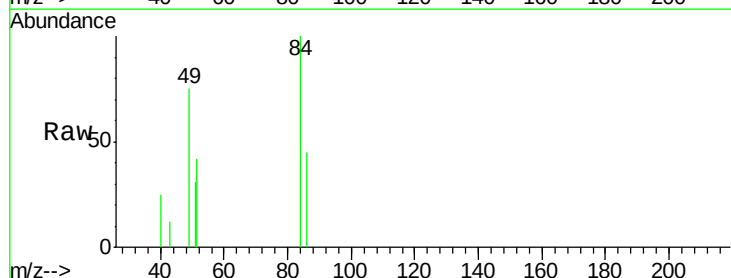
Ion Ratio Lower Upper

84 100

49 74.7 99.8 149.6#

51 73.0 31.4 47.2#

86 45.0 52.2 78.2#

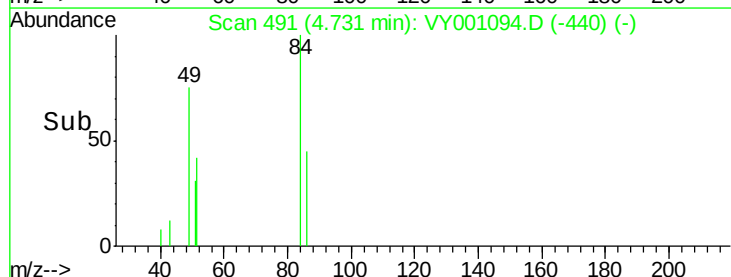
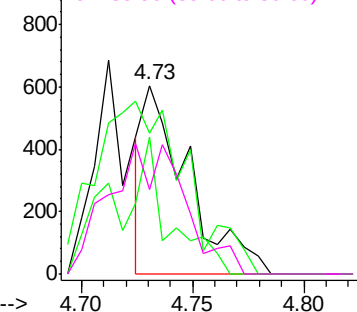


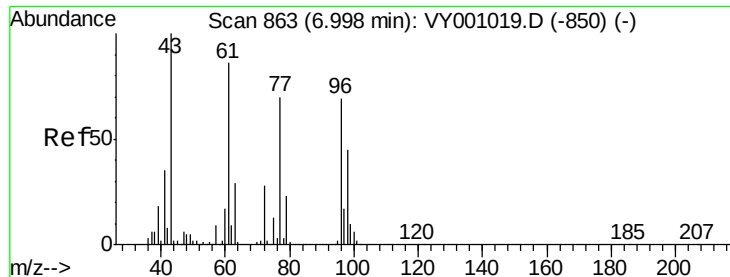
Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0





#25

2-Butanone

Concen: 3.488 ug/l

RT: 7.01 min Scan# 865

Delta R.T. 0.01 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

Instrument :

MSVOA_Y

ClientSampleId :

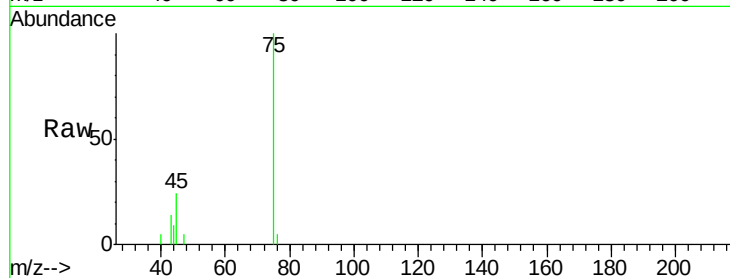
LIED-BF013-01

Tgt Ion: 43 Resp: 518

Ion Ratio Lower Upper

43 100

72 0.0 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

7.01

250

200

150

100

50

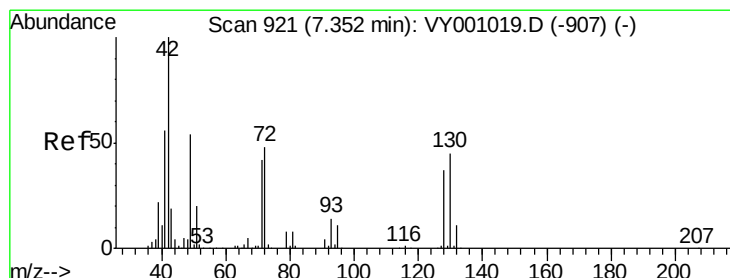
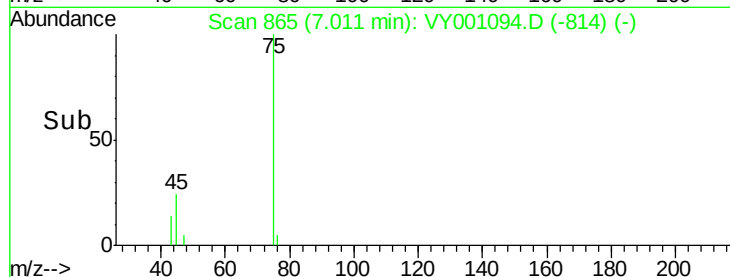
0

6.95

7.00

7.05

Time-->



#29

Tetrahydrofuran

Concen: 2.243 ug/l

RT: 7.37 min Scan# 924

Delta R.T. 0.02 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

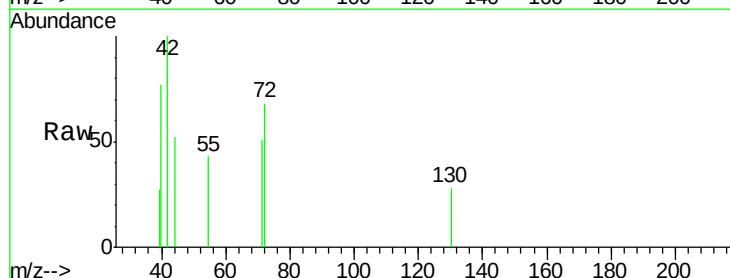
Tgt Ion: 42 Resp: 237

Ion Ratio Lower Upper

42 100

72 40.9 37.7 56.5

71 33.8 34.6 51.8#



Abundance Ion 42.00 (41.70 to 42.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Ion 71.00 (70.70 to 71.70): VY0

7.37

250

200

150

100

50

0

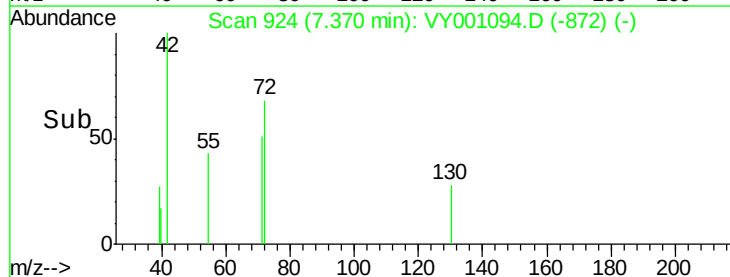
7.32

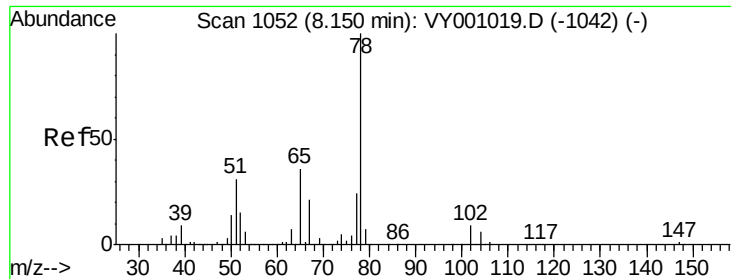
7.34

7.36

7.38

Time-->

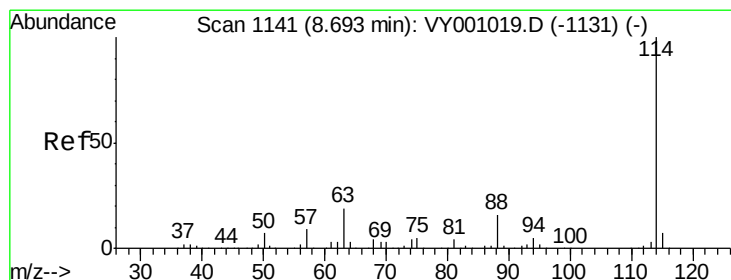
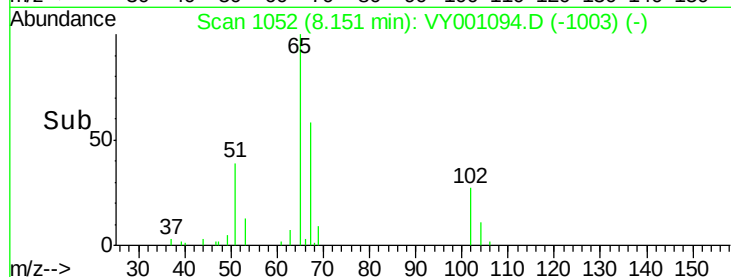
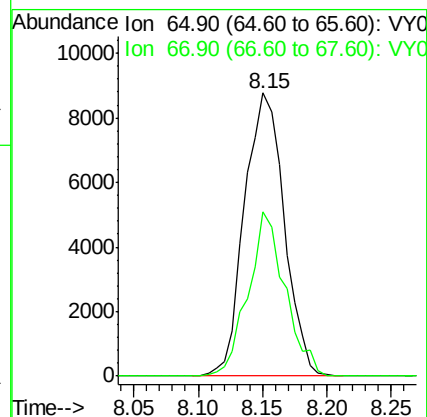
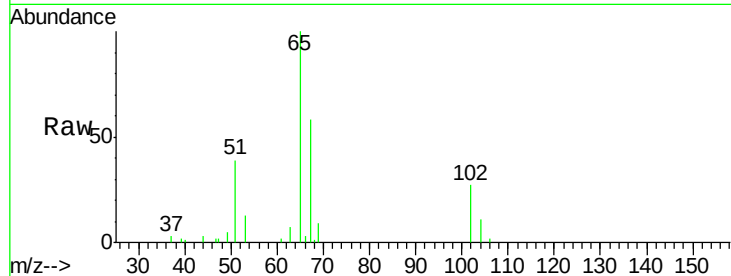




#33
 1,2-Dichloroethane-d4
 Concen: 51.117 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VY001094.D
 Acq: 27 Dec 2019 13:53

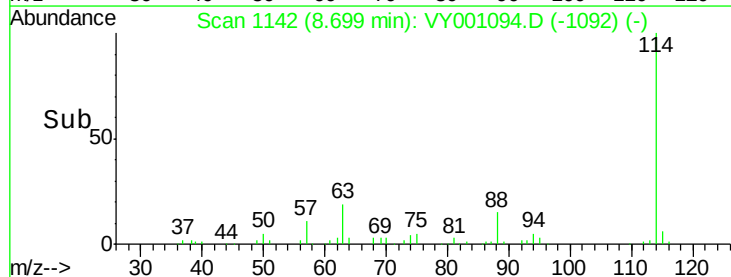
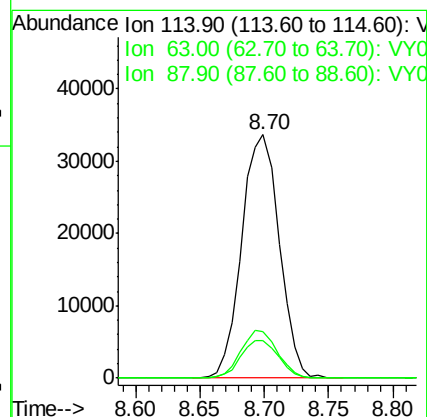
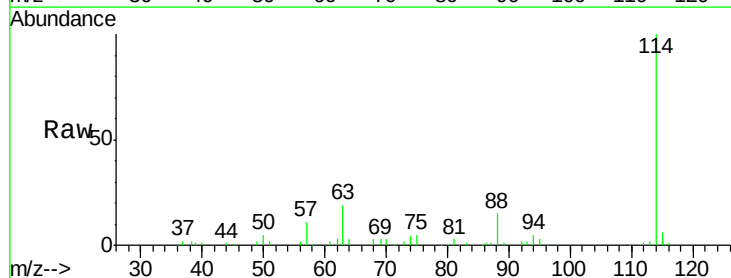
Instrument :
 MSVOA_Y
 ClientSampleId :
 LIED-BF013-01

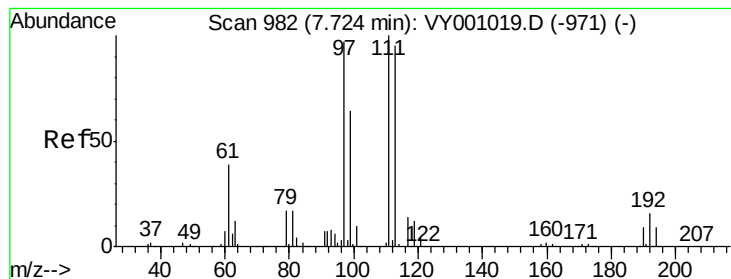
Tgt Ion: 65 Resp: 18760
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 112.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. 0.01 min
 Lab File: VY001094.D
 Acq: 27 Dec 2019 13:53

Tgt Ion: 114 Resp: 67833
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 37.0
 88 15.4 0.0 32.0





#35

Dibromofluoromethane

Concen: 49.397 ug/l

RT: 7.72 min Scan# 982

Delta R.T. 0.00 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

Instrument :

MSVOA_Y

ClientSampleId :

LIED-BF013-01

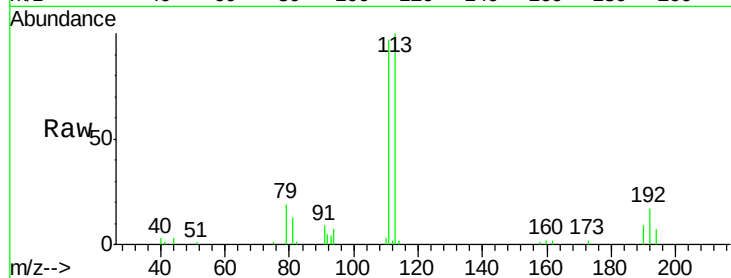
Tgt Ion:113 Resp: 19731

Ion Ratio Lower Upper

113 100

111 100.5 83.0 124.4

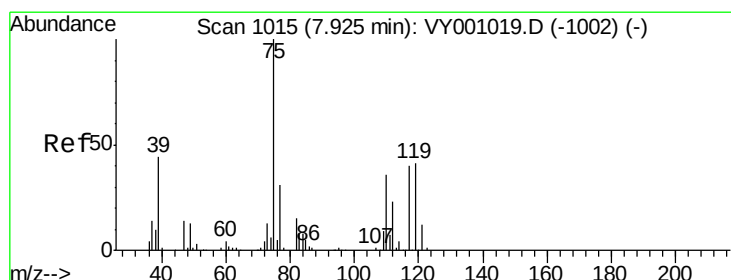
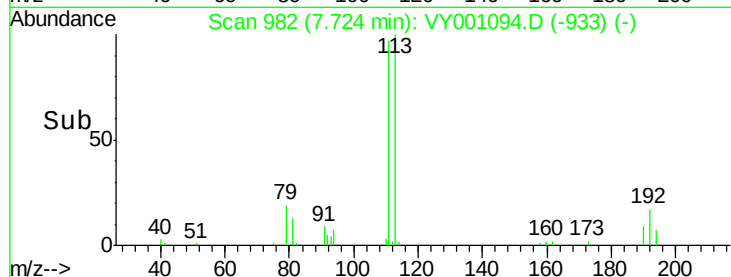
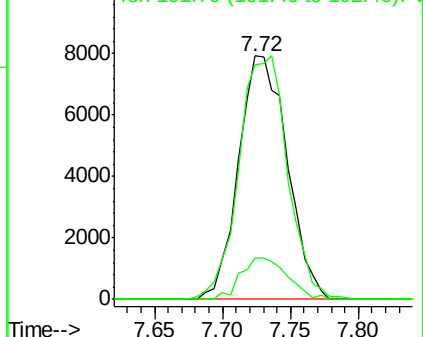
192 16.6 14.6 21.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.449 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

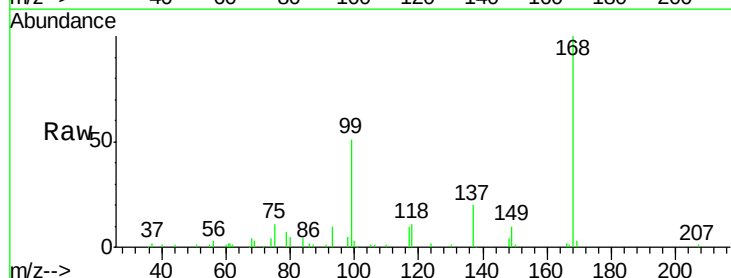
Tgt Ion: 75 Resp: 3526

Ion Ratio Lower Upper

75 100

110 6.0 18.1 54.4#

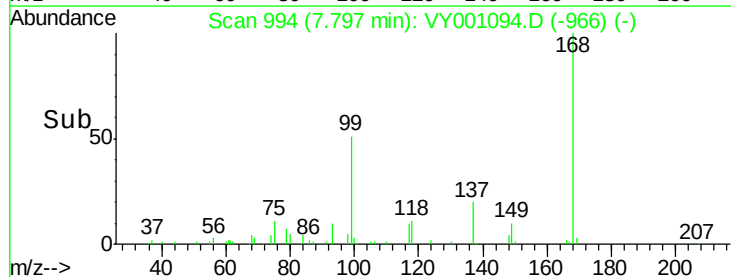
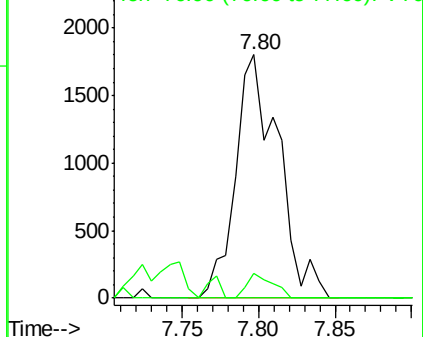
77 0.0 24.6 37.0#

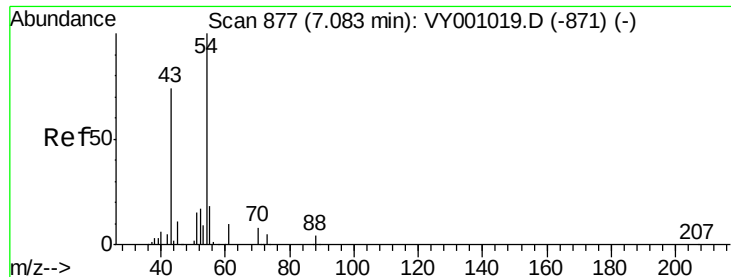


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0





#37

Ethyl Acetate

Concen: 1.446 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.07 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

Instrument :

MSVOA_Y

ClientSampleId :

LIED-BF013-01

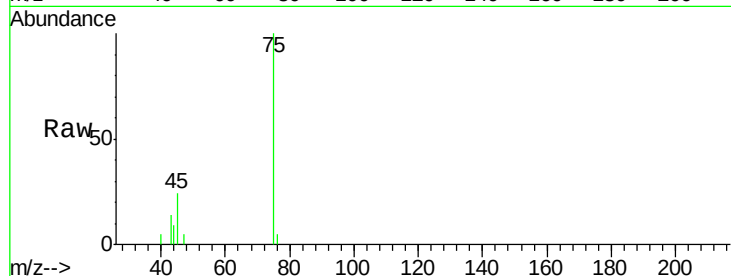
Tgt Ion: 43 Resp: 518

Ion Ratio Lower Upper

43 100

61 8.3 12.5 18.7#

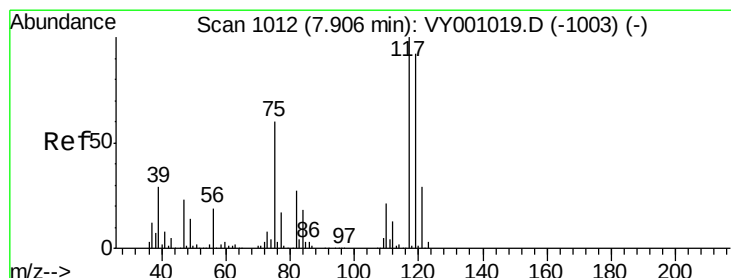
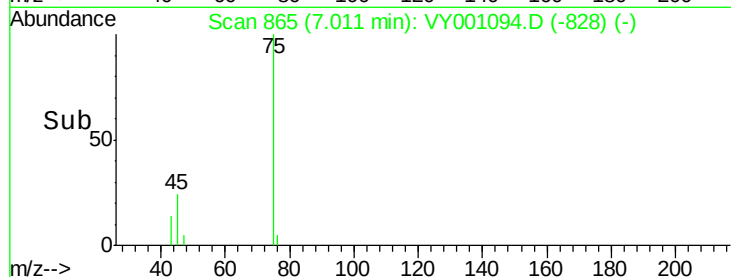
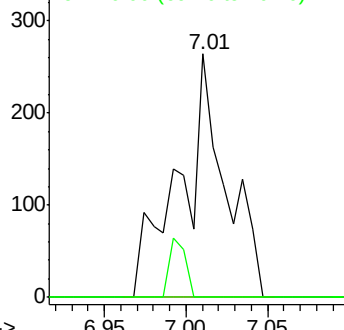
70 0.0 9.0 13.4#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 70.00 (69.70 to 70.70): VY0



#38

Carbon Tetrachloride

Concen: 6.371 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

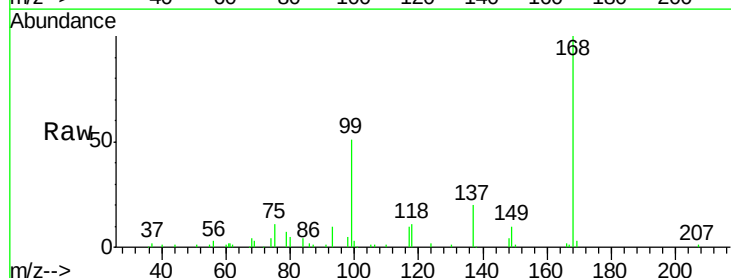
Tgt Ion: 117 Resp: 3612

Ion Ratio Lower Upper

117 100

119 0.0 74.2 111.2#

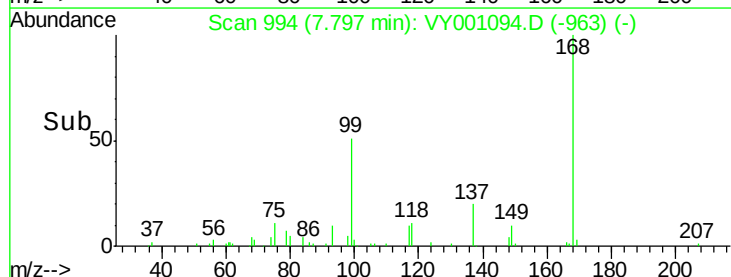
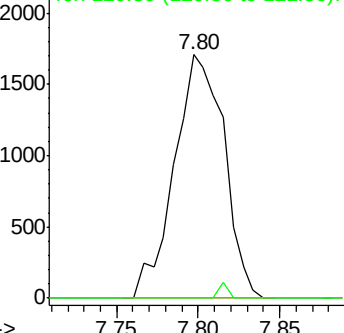
121 0.0 22.9 34.3#

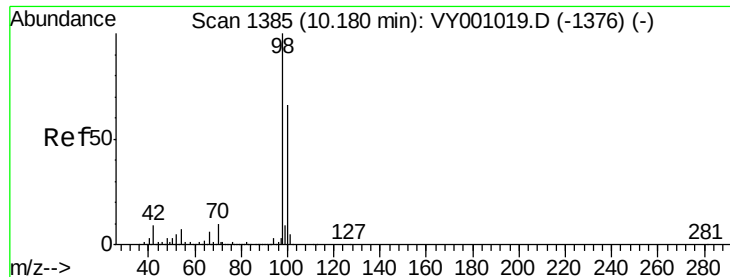


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 48.770 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY001094.D

Acq: 27 Dec 2019 13:53

Instrument :

MSVOA_Y

ClientSampleId :

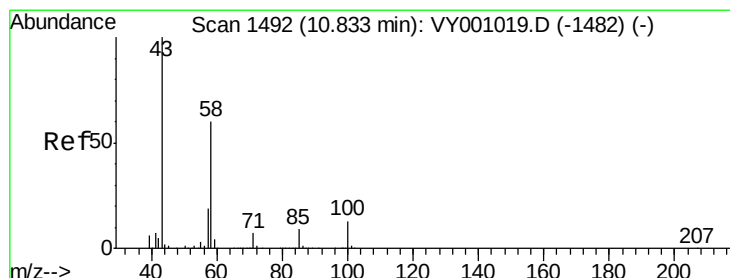
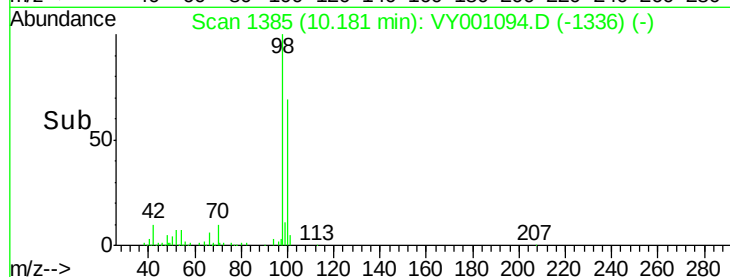
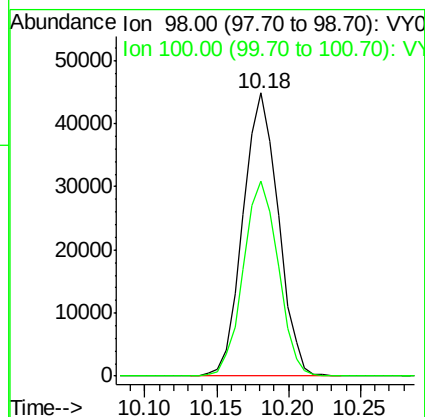
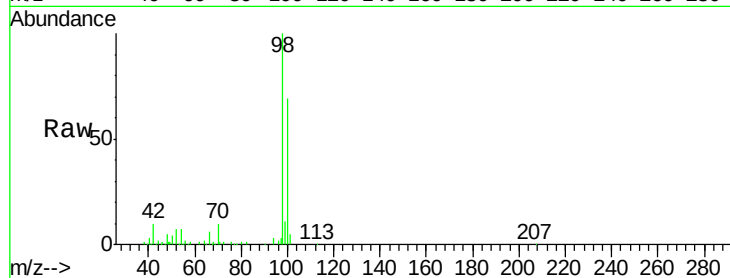
LIED-BF013-01

Tgt Ion: 98 Resp: 76130

Ion Ratio Lower Upper

98 100

100 68.3 53.0 79.4



#59

2-Hexanone

Concen: 1.020 ug/l

RT: 10.85 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VY001094.D

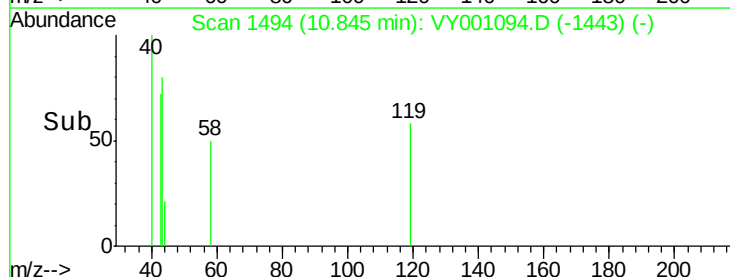
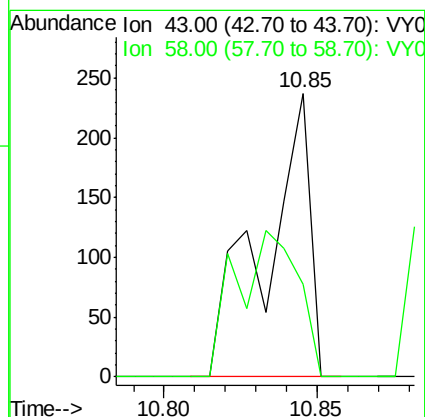
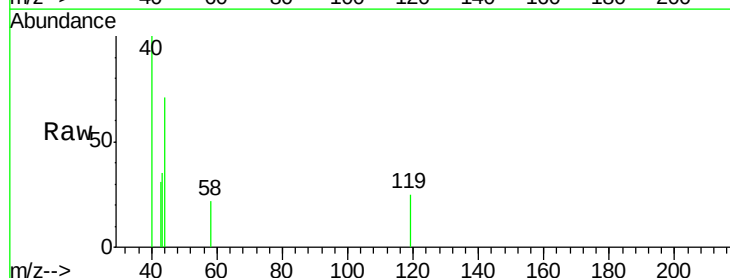
Acq: 27 Dec 2019 13:53

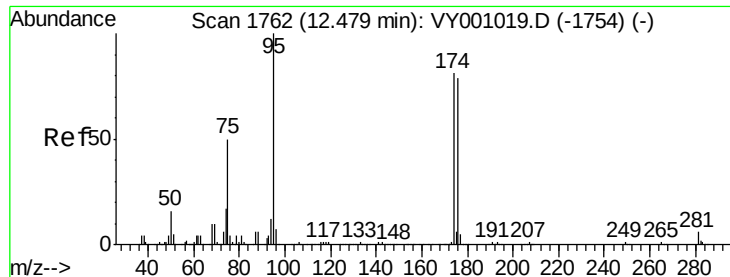
Tgt Ion: 43 Resp: 244

Ion Ratio Lower Upper

43 100

58 70.5 30.6 91.6

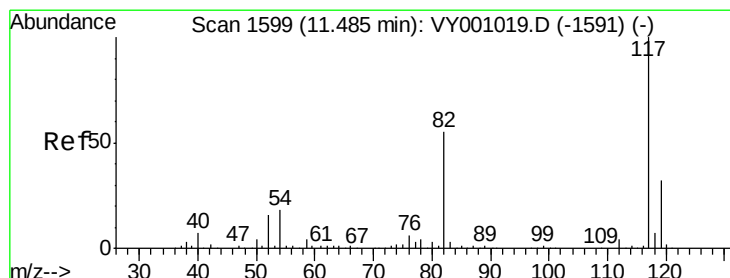
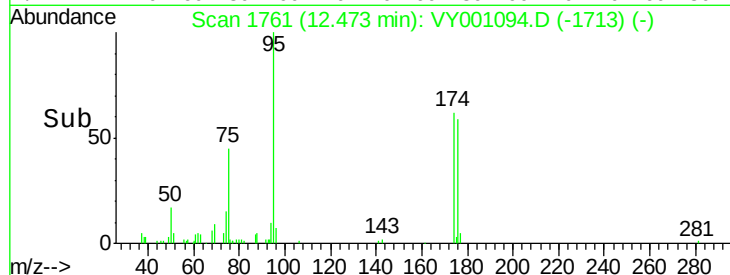
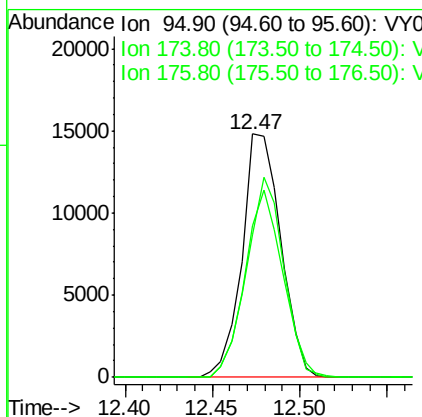
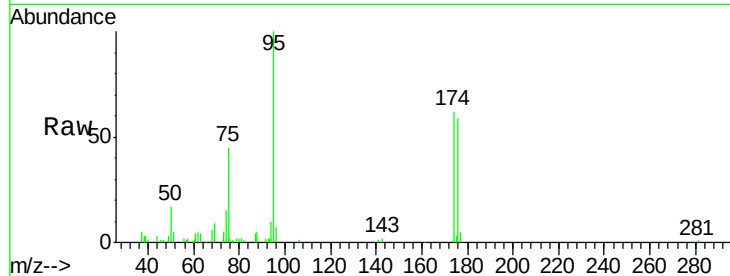




#62
4-Bromofluorobenzene
Concen: 40.091 ug/l
RT: 12.47 min Scan# 1761
Delta R.T. -0.01 min
Lab File: VY001094.D
Acq: 27 Dec 2019 13:53

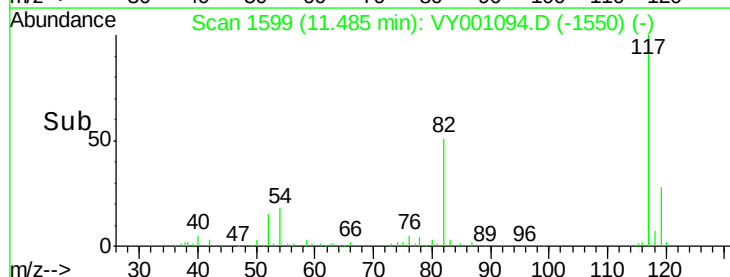
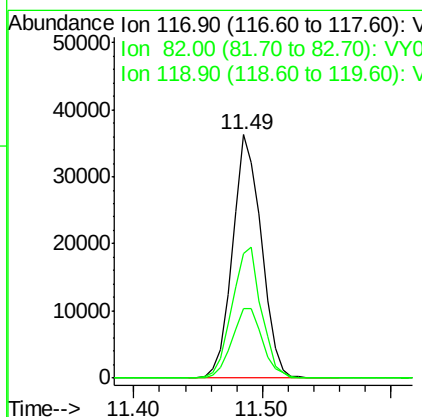
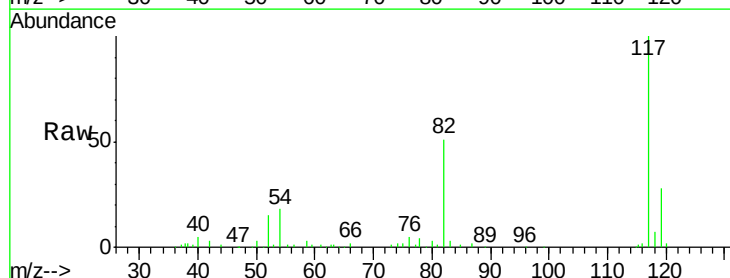
Instrument :
MSVOA_Y
ClientSampleId :
LIED-BF013-01

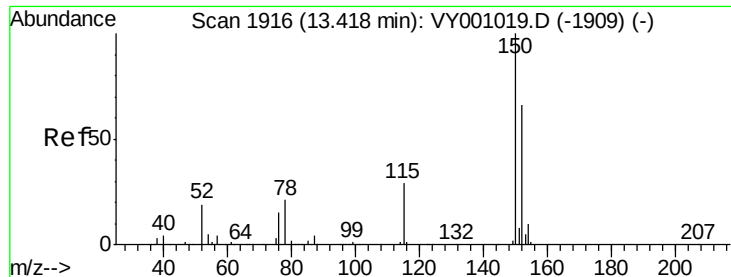
Tgt Ion: 95 Resp: 22881
Ion Ratio Lower Upper
95 100
174 74.9 0.0 156.4
176 79.1 0.0 155.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VY001094.D
Acq: 27 Dec 2019 13:53

Tgt Ion: 117 Resp: 56458
Ion Ratio Lower Upper
117 100
82 51.3 43.8 65.8
119 28.4 25.8 38.6



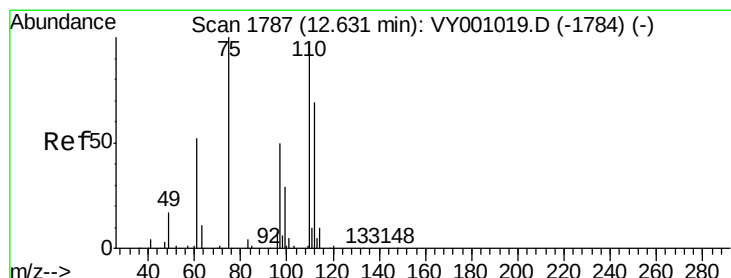
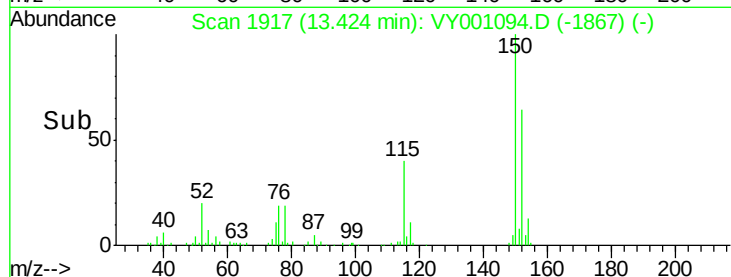
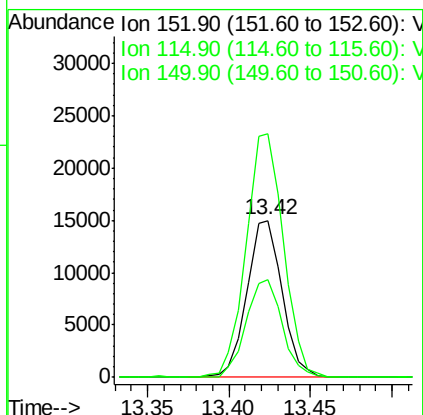
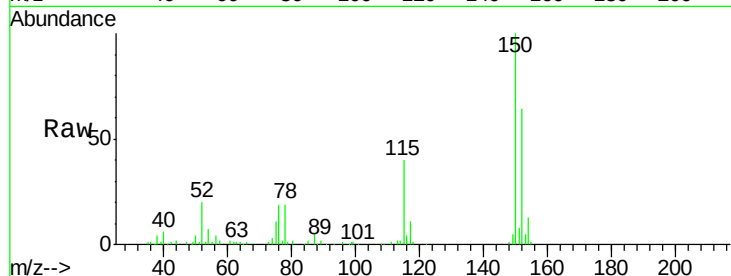


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.01 min
Lab File: VY001094.D
Acq: 27 Dec 2019 13:53

Instrument :
MSVOA_Y
ClientSampleId :
LIED-BF013-01

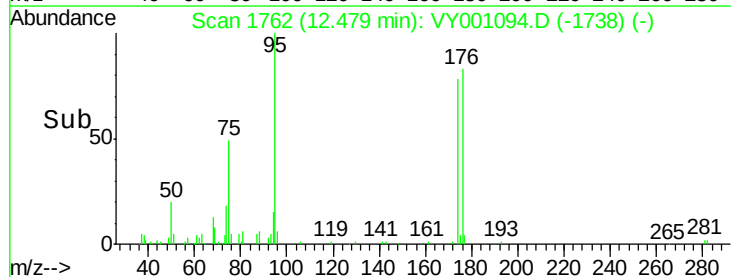
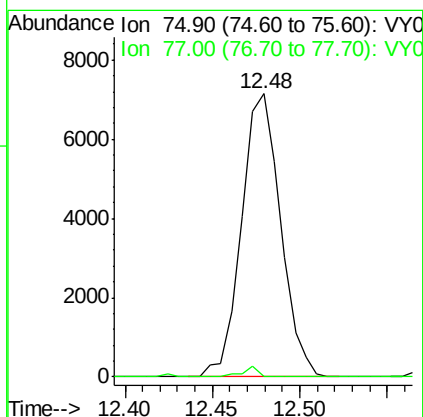
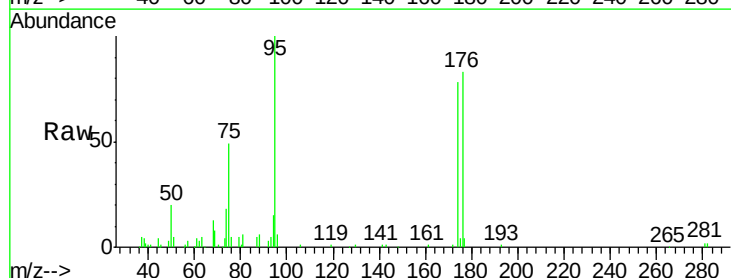
Tgt Ion:152 Resp: 22602
Ion Ratio Lower Upper
152 100
115 64.0 29.8 89.3
150 164.2 0.0 352.6

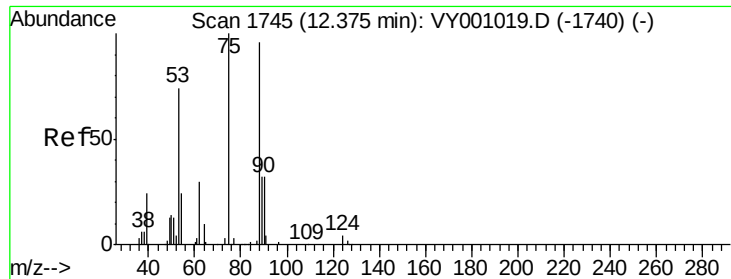


#76

1,2,3-Trichloropropane
Concen: 39.855 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.15 min
Lab File: VY001094.D
Acq: 27 Dec 2019 13:53

Tgt Ion: 75 Resp: 11105
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 85.001 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY001094.D

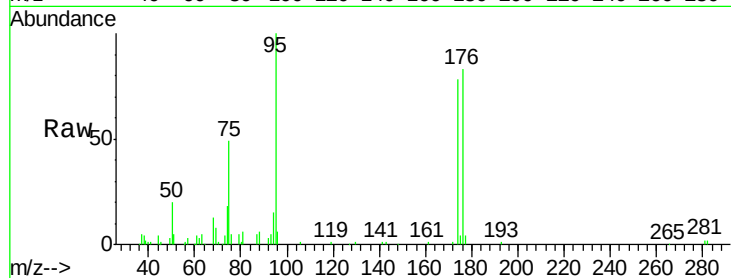
Acq: 27 Dec 2019 13:53

Instrument :

MSVOA_Y

ClientSampleId :

LIED-BF013-01



Tgt Ion: 75 Resp: 11105

Ion Ratio Lower Upper

75 100

53 0.0 60.6 91.0#

89 0.0 35.4 53.0#

Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

