

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY092019\
 Data File : VY000121.D
 Acq On : 20 Sep 2019 20:20
 Operator : SY/MD
 Sample : K4938-06
 Misc : 5.00g/5.00ml/MSVOA Y/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 20 23:50:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y091719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 05:38:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.79	168	81031	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	175073	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	150842	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	59413	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.14	65	52292	56.09	ug/l	0.00
Spiked Amount			Recovery	=	112.18%	
35) Dibromofluoromethane	7.72	113	31972	30.16	ug/l	0.00
Spiked Amount			Recovery	=	60.32%	
50) Toluene-d8	10.18	98	209776	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
62) 4-Bromofluorobenzene	12.48	95	69836	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	

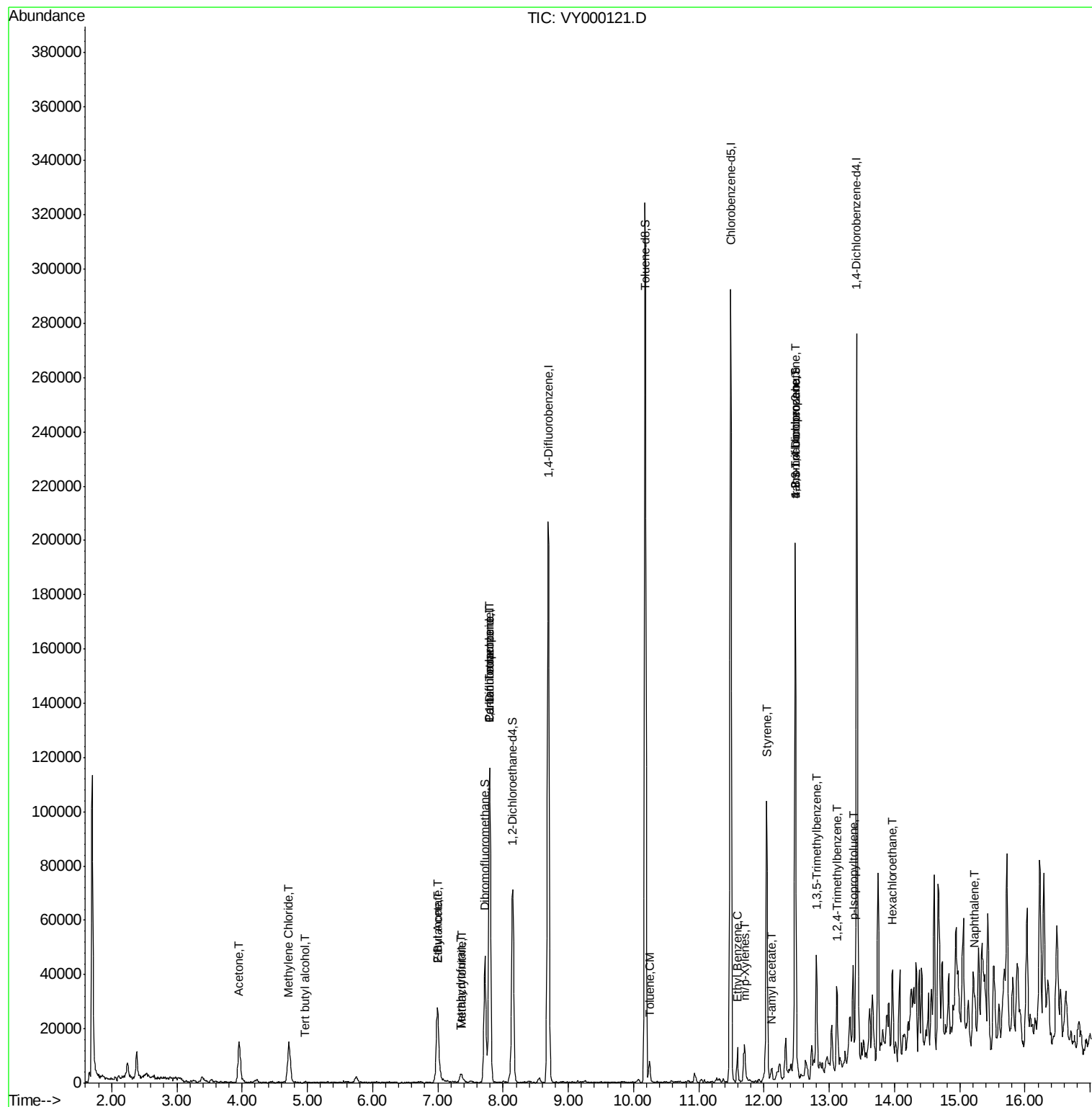
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	1052	Below Cal	#	72
5) Bromomethane	2.68	94	43	Below Cal	#	6
11) Tert butyl alcohol	4.96	59	292	2.642	ug/l #	44
13) Acrolein	3.96	56	20	Below Cal	#	43
16) Acetone	3.95	43	25116	115.708	ug/l	88
17) Carbon Disulfide	4.18	76	456	Below Cal	#	77
20) Methylene Chloride	4.71	84	10882	10.657	ug/l	92
25) 2-Butanone	6.99	43	19175	48.772	ug/l	98
29) Tetrahydrofuran	7.35	42	1605	6.800	ug/l #	78
31) Cyclohexane	7.79	56	2655	Below Cal	#	2
36) 1,1-Dichloropropene	7.79	75	8071	6.165	ug/l #	46
37) Ethyl Acetate	6.99	43	19175	21.975	ug/l #	66
38) Carbon Tetrachloride	7.79	117	8832	7.148	ug/l #	16
41) Methacrylonitrile	7.36	41	1427	6.237	ug/l #	44
52) Toluene	10.24	92	3343	1.217	ug/l	90
67) Ethyl Benzene	11.59	91	7791	1.463	ug/l	93
68) m/p-Xylenes	11.70	106	2600	1.283	ug/l	83
70) Styrene	12.04	104	49964	14.507	ug/l	90
74) N-amyl acetate	12.11	43	2167	1.589	ug/l #	55
76) 1,2,3-Trichloropropane	12.48	75	34762	41.585	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.80	105	6024	1.519	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.48	75	34762	79.977	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.12	105	16431	4.202	ug/l	90
86) p-Isopropyltoluene	13.37	119	15814	3.721	ug/l	95
90) Hexachloroethane	13.97	117	1356	1.624	ug/l #	20
95) Naphthalene	15.22	128	8056	2.524	ug/l	99

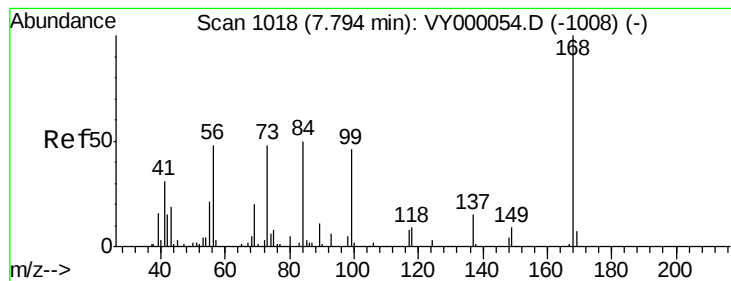
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 20 23:50:45 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y091719S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 19 05:38:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

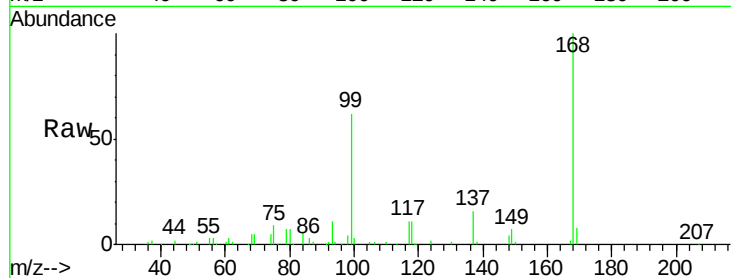
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 81031

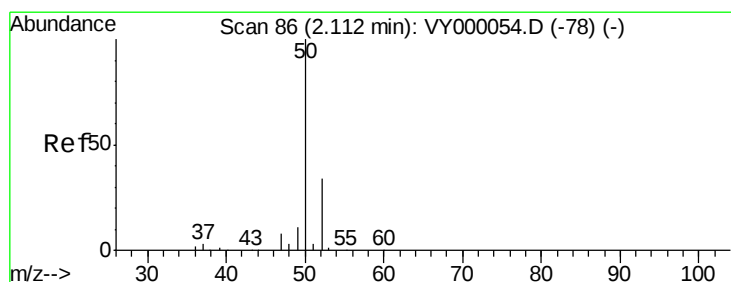
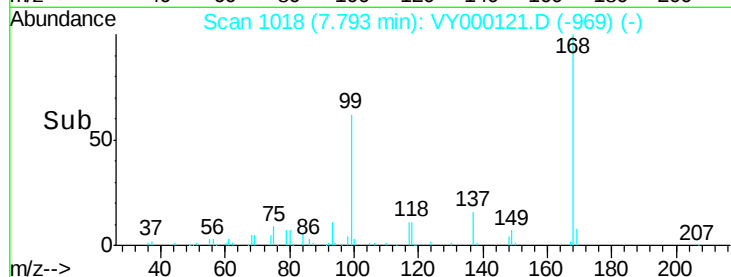
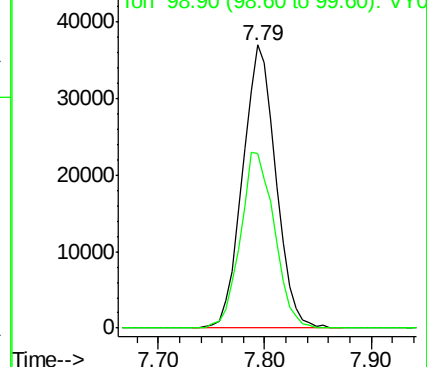
Ion Ratio Lower Upper

168 100

99 61.6 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): VY000054.D (-1008) (-)



#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY000121.D

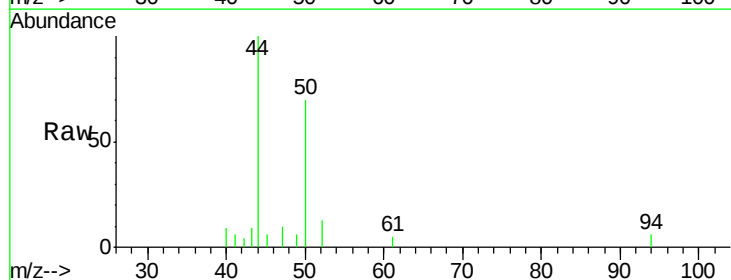
Acq: 20 Sep 2019 20:20

Tgt Ion: 50 Resp: 1052

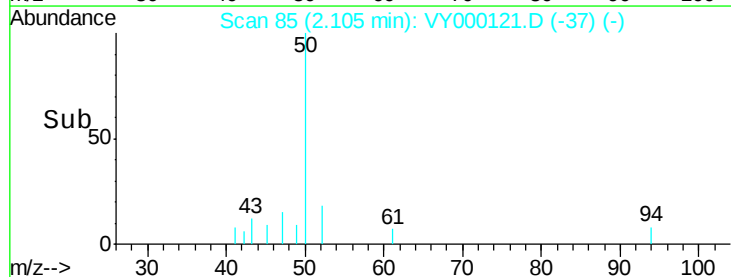
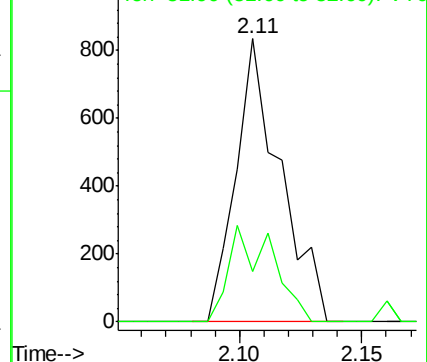
Ion Ratio Lower Upper

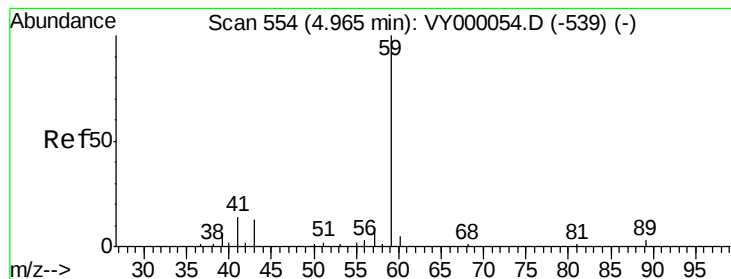
50 100

52 18.0 27.3 40.9#



Abundance Ion 49.90 (49.60 to 50.60): VY000054.D (-78) (-)



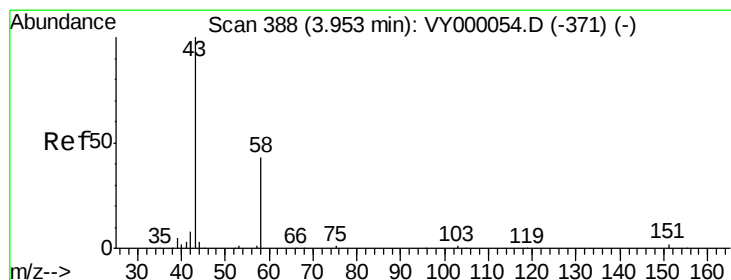
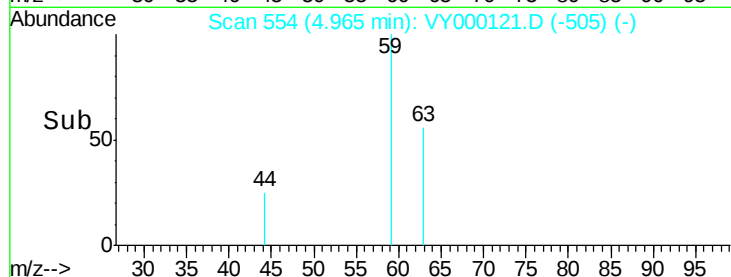
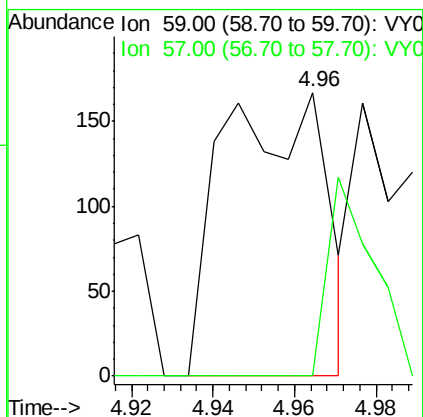
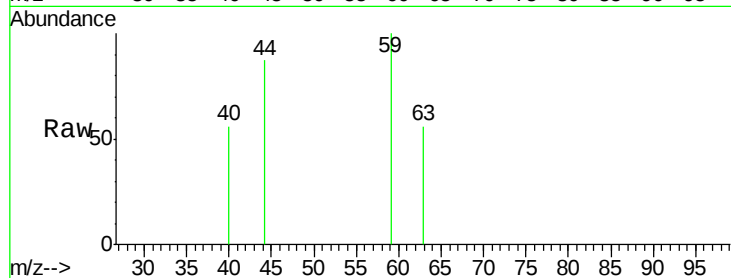


#11

Tert butyl alcohol
 Concen: 2.642 ug/l
 RT: 4.96 min Scan# 554
 Delta R.T. 0.00 min
 Lab File: VY000121.D
 Acq: 20 Sep 2019 20:20

Instrument :
 MSVOA_Y
 ClientSampleId :

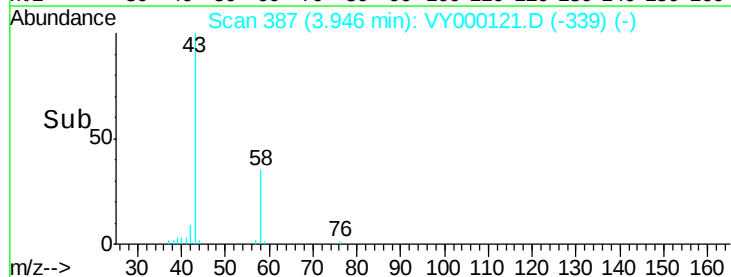
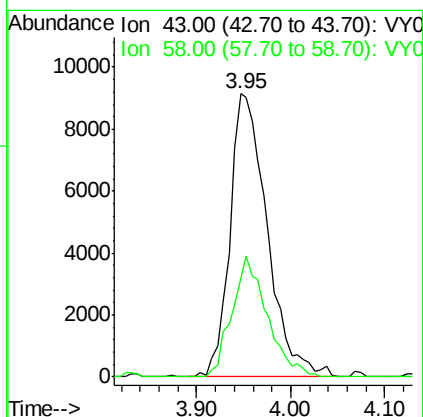
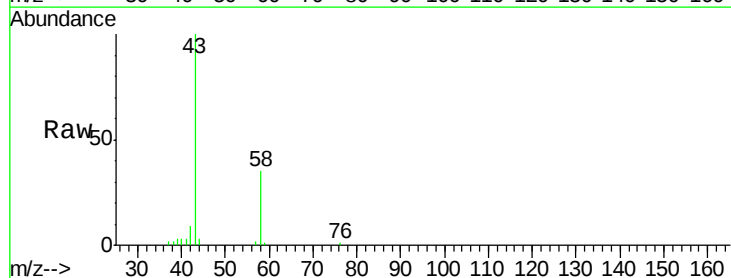
Tot Ion: 59 Resp: 292
 Ion Ratio Lower Upper
 59 100
 57 30.8 8.0 12.0#

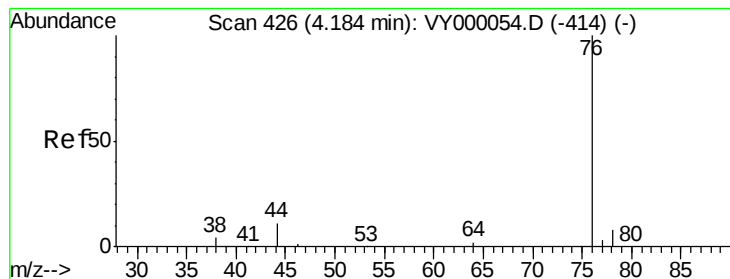


#16

Acetone
 Concen: 115.708 ug/l
 RT: 3.95 min Scan# 387
 Delta R.T. -0.01 min
 Lab File: VY000121.D
 Acq: 20 Sep 2019 20:20

Tgt Ion: 43 Resp: 25116
 Ion Ratio Lower Upper
 43 100
 58 35.2 34.5 51.7





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.18 min Scan# 426

Delta R.T. 0.00 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :

MSVOA_Y

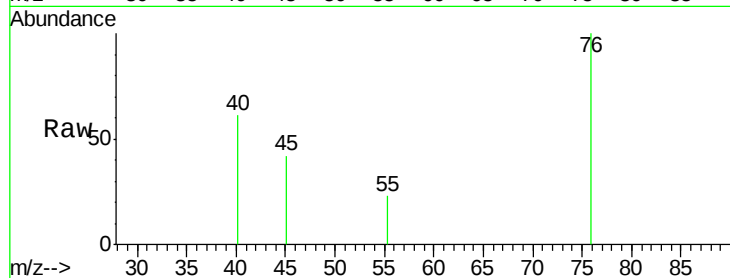
ClientSampleId :

Tot Ion: 76 Resp: 456

Ion Ratio Lower Upper

76 100

78 0.0 6.6 9.8#



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

4.18

250

200

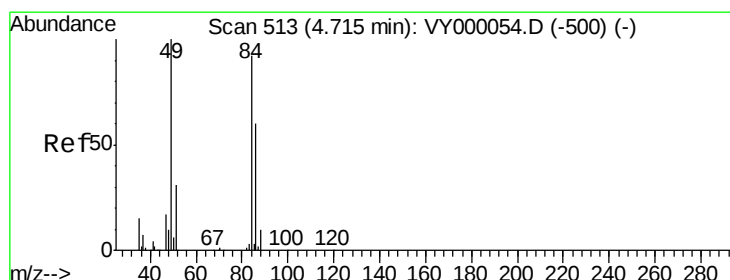
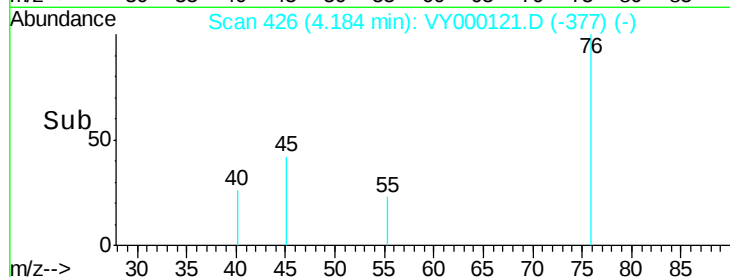
150

100

50

0

Time-->



#20

Methylene Chloride

Concen: 10.657 ug/l

RT: 4.71 min Scan# 513

Delta R.T. -0.00 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Tgt Ion: 84 Resp: 10882

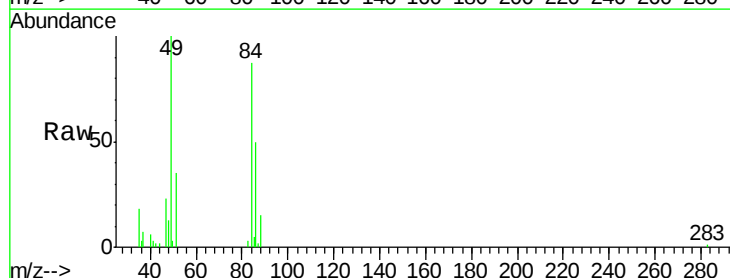
Ion Ratio Lower Upper

84 100

49 114.5 87.4 131.0

51 39.6 27.2 40.8

86 57.2 52.8 79.2



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

6000

5000

4000

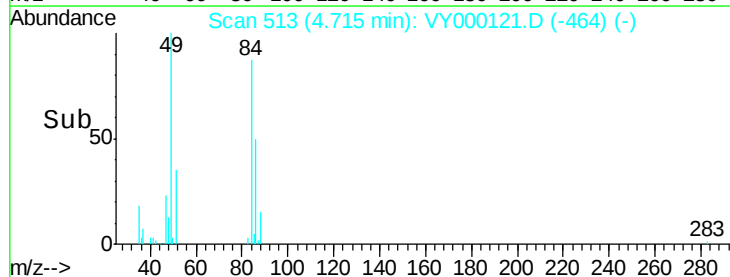
3000

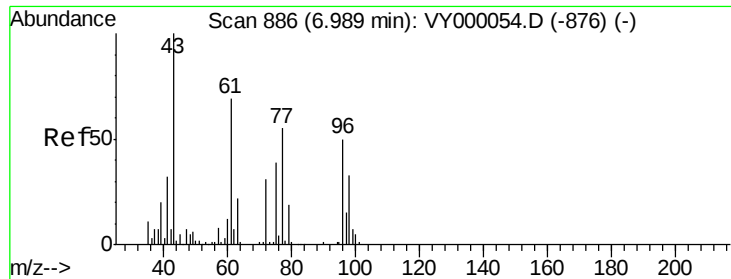
2000

1000

0

Time-->





#25

2-Butanone

Concen: 48.772 ug/l

RT: 6.99 min Scan# 887

Delta R.T. 0.01 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

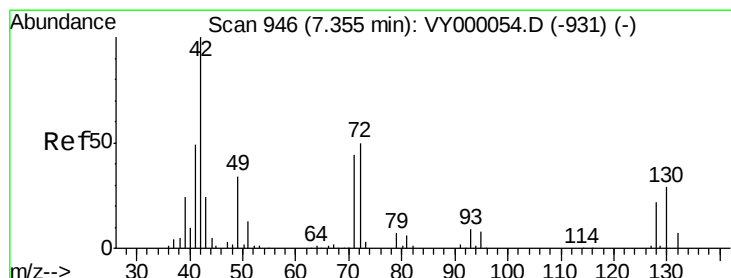
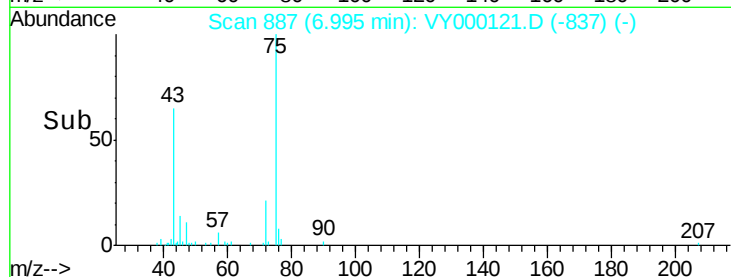
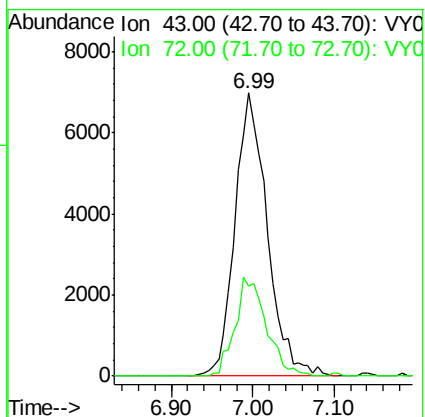
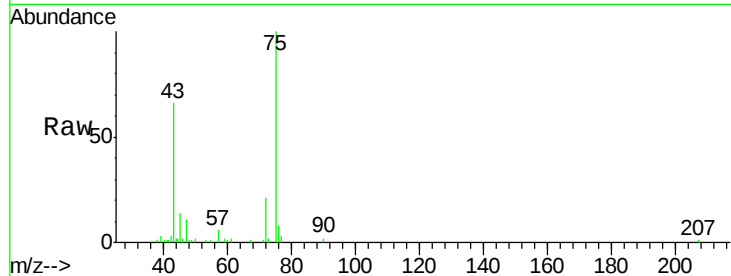
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 43 Resp: 19175

Ion Ratio Lower Upper

43 100

72 31.7 24.7 37.1



#29

Tetrahydrofuran

Concen: 6.800 ug/l

RT: 7.35 min Scan# 945

Delta R.T. -0.01 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

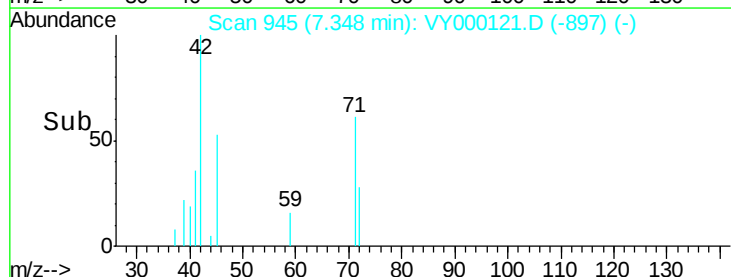
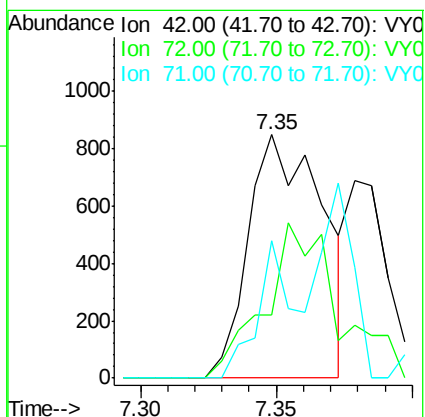
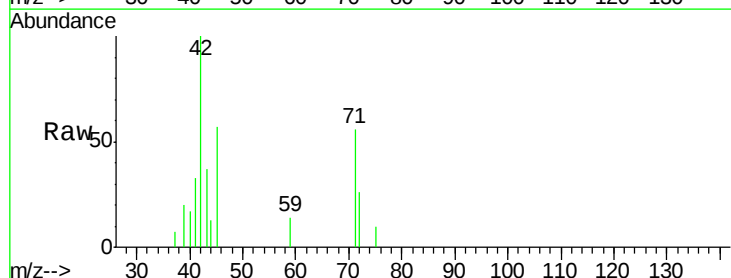
Tgt Ion: 42 Resp: 1605

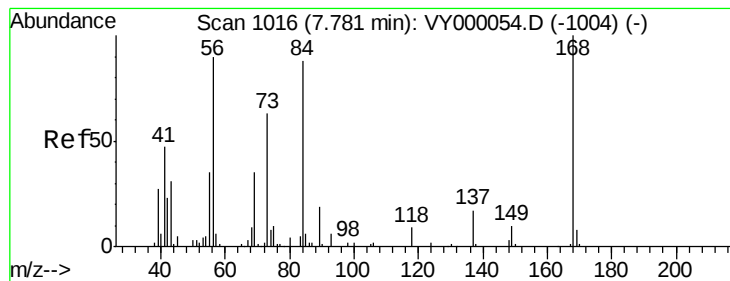
Ion Ratio Lower Upper

42 100

72 62.6 41.8 62.6

71 27.5 38.6 58.0#





#31

Cyclohexane

Concen: Below Cal

RT: 7.79 min Scan# 1018

Delta R.T. 0.01 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :
MSVOA_Y
ClientSampled :

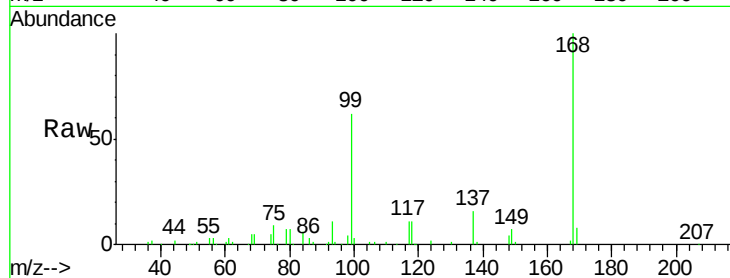
Tot Ion: 56 Resp: 2655

Ion Ratio Lower Upper

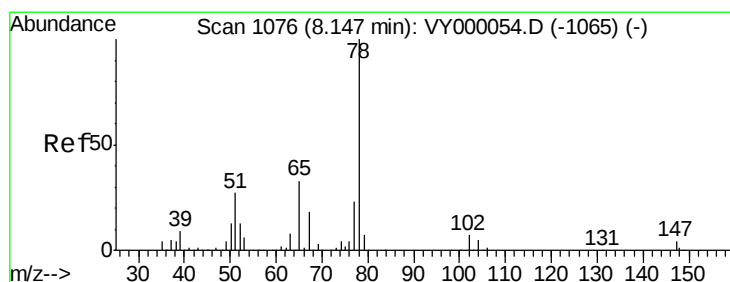
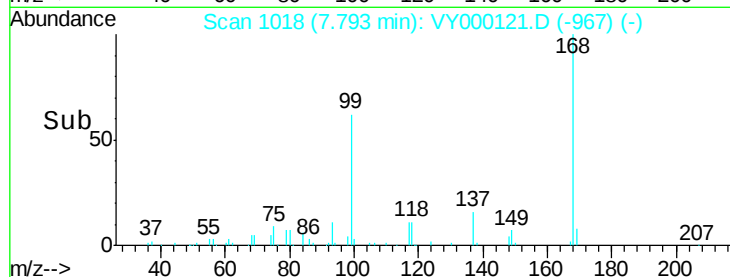
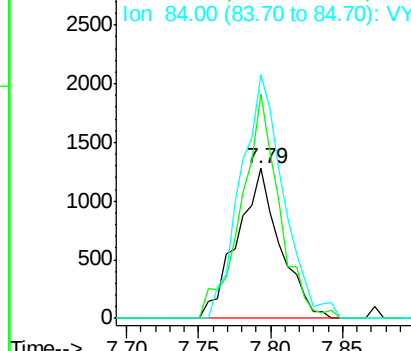
56 100

69 149.5 30.9 46.3#

84 162.7 78.5 117.7#



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: 56.091 ug/l

RT: 8.14 min Scan# 1075

Delta R.T. -0.01 min

Lab File: VY000121.D

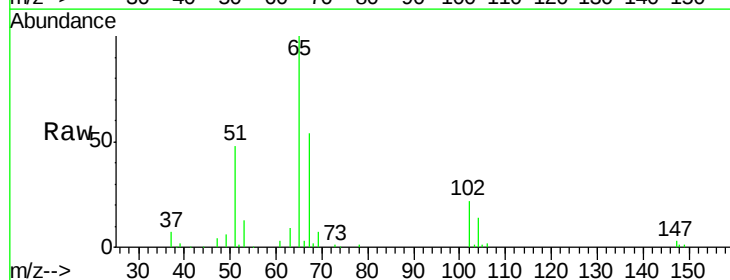
Acq: 20 Sep 2019 20:20

Tgt Ion: 65 Resp: 52292

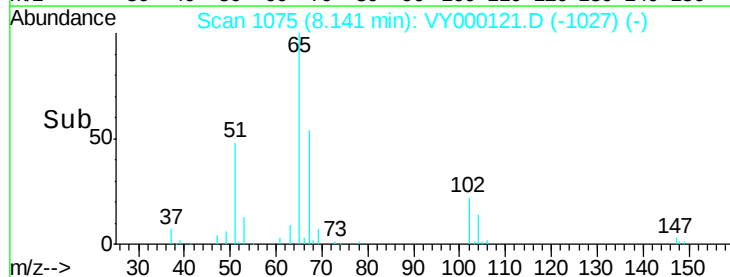
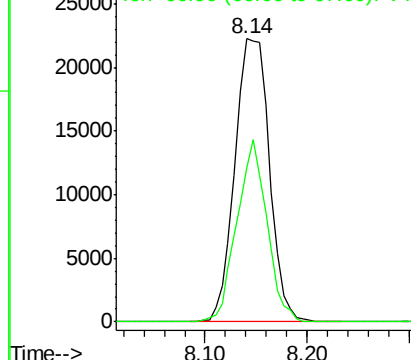
Ion Ratio Lower Upper

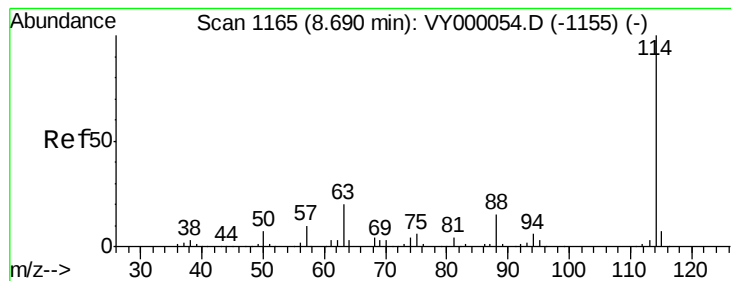
65 100

67 55.9 0.0 111.0



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1165

Delta R.T. -0.00 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :

MSVOA_Y

ClientSampleId :

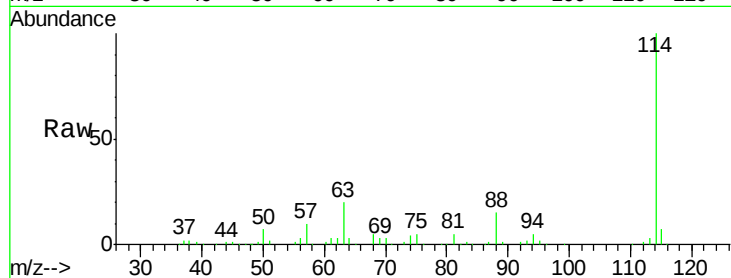
Tot Ion:114 Resp: 175073

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.4

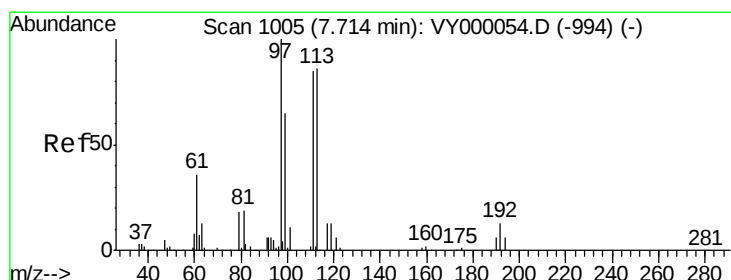
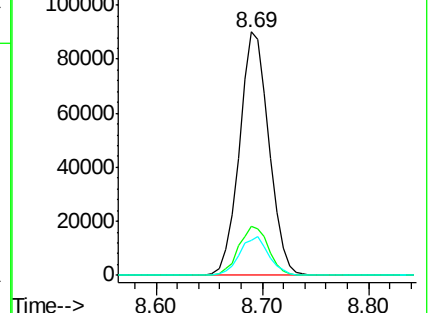
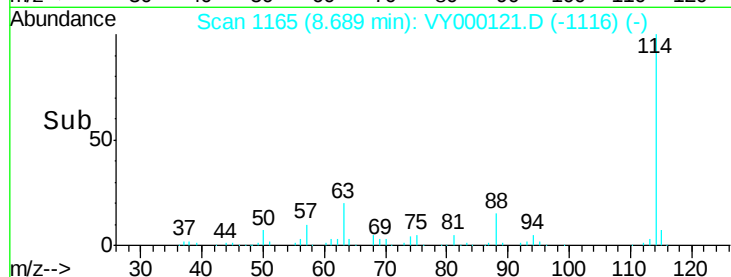
88 14.6 0.0 30.2



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: 30.162 ug/l

RT: 7.72 min Scan# 1006

Delta R.T. 0.01 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

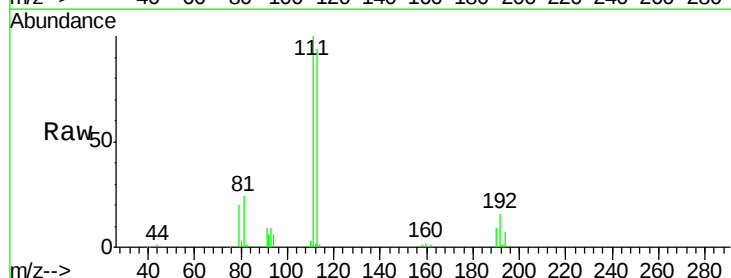
Tgt Ion:113 Resp: 31972

Ion Ratio Lower Upper

113 100

111 105.7 81.7 122.5

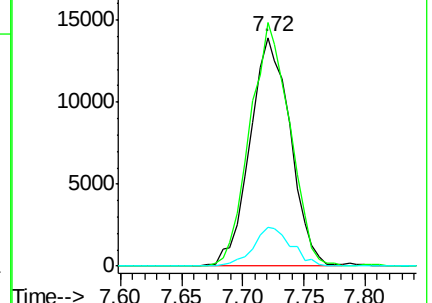
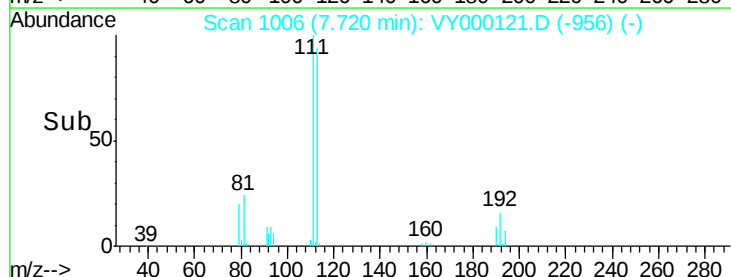
192 16.2 13.4 20.2

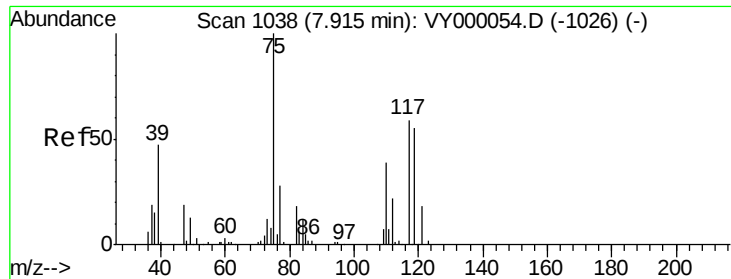


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.165 ug/l

RT: 7.79 min Scan# 1018

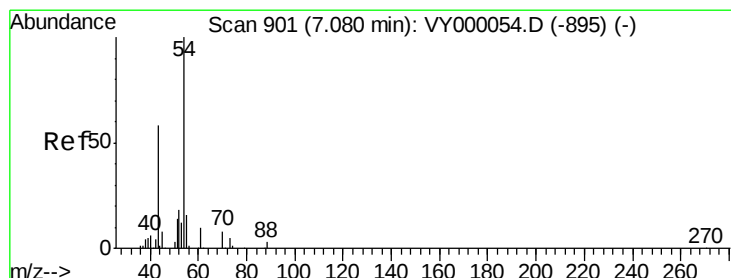
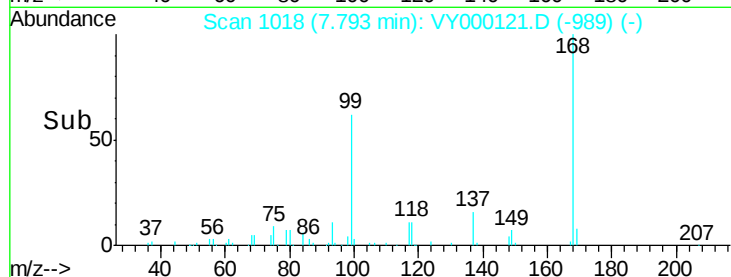
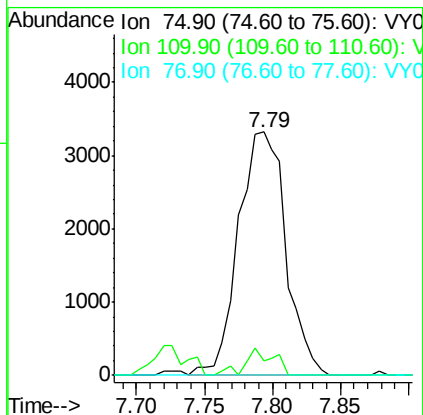
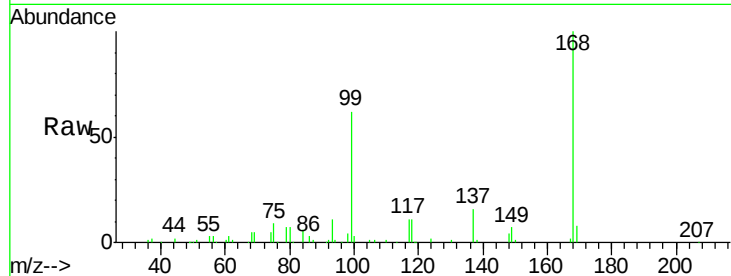
Delta R.T. -0.12 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:	75	Resp:	8071
Ion	Ratio	Lower	Upper
75	100		
110	6.6	19.6	58.7#
77	0.0	24.3	36.5#



#37

Ethyl Acetate

Concen: 21.975 ug/l

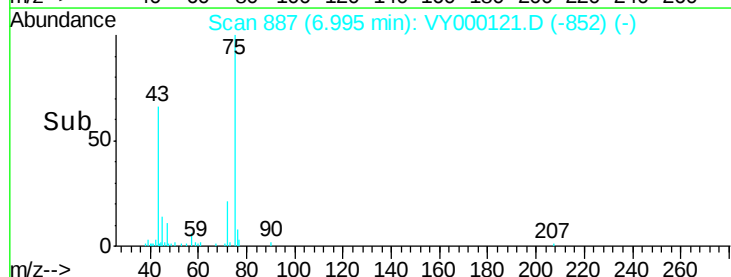
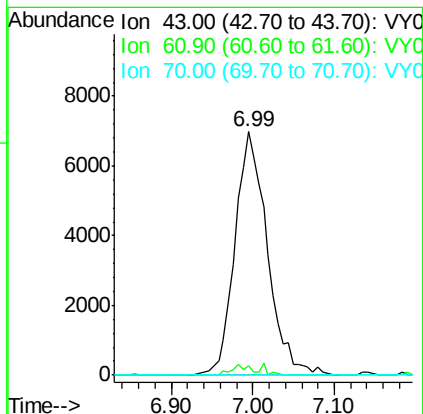
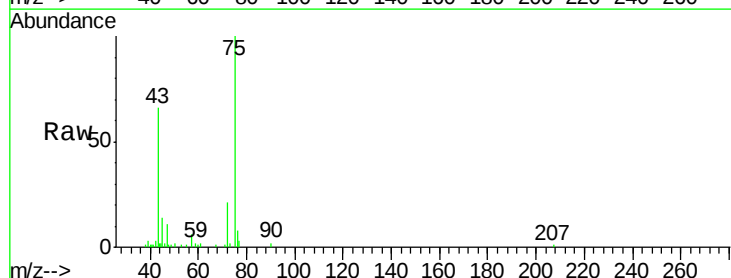
RT: 6.99 min Scan# 887

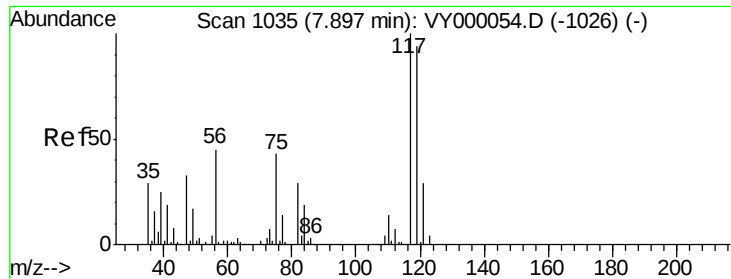
Delta R.T. -0.09 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Tgt Ion:	43	Resp:	19175
Ion	Ratio	Lower	Upper
43	100		
61	2.2	14.1	21.1#
70	0.0	10.6	15.8#





#38

Carbon Tetrachloride

Concen: 7.148 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.10 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :
MSVOA_Y
ClientSampled :

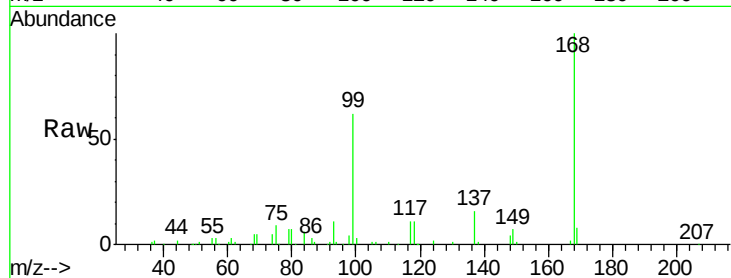
Tot Ion:117 Resp: 8832

Ion Ratio Lower Upper

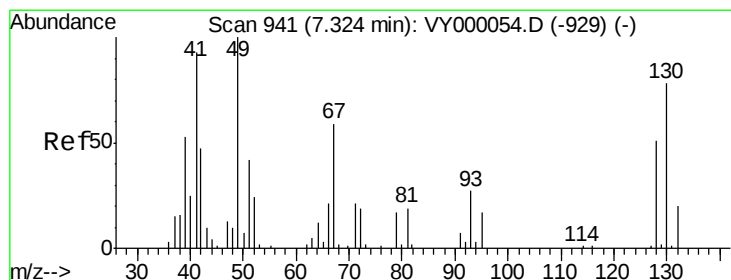
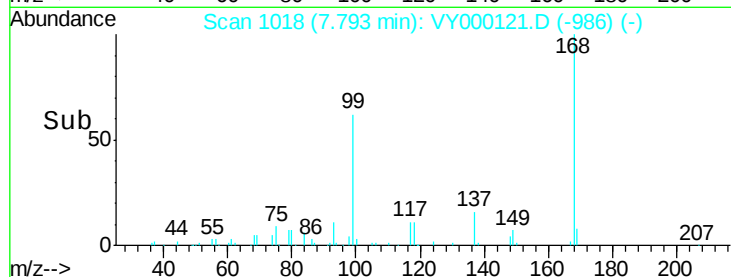
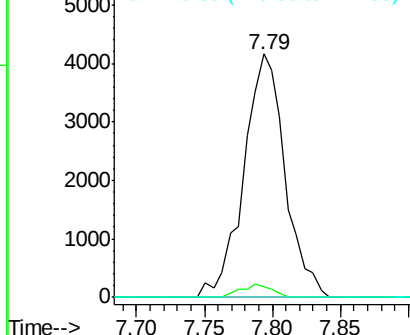
117 100

119 4.2 75.0 112.6#

121 0.0 22.8 34.2#



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



#41

Methacrylonitrile

Concen: 6.237 ug/l

RT: 7.36 min Scan# 947

Delta R.T. 0.04 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Tgt Ion: 41 Resp: 1427

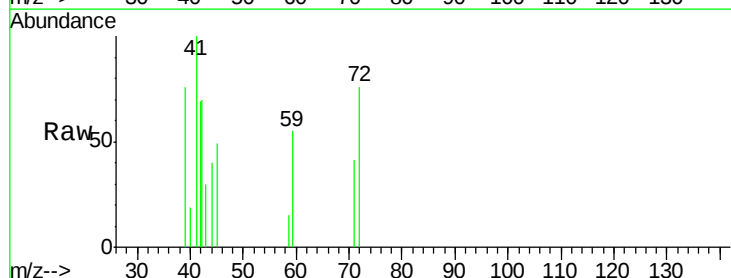
Ion Ratio Lower Upper

41 100

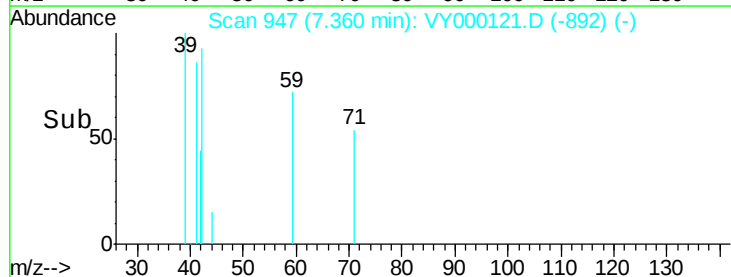
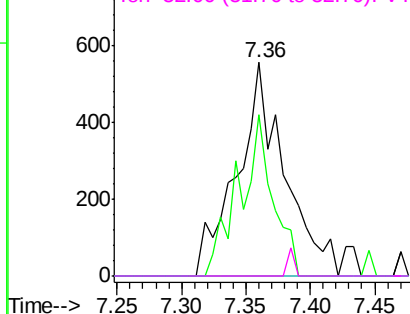
39 53.9 91.8 137.6#

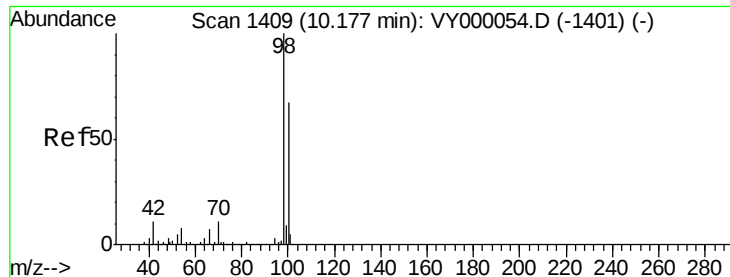
67 0.0 0.0 0.0

52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0





#50

Toluene-d8

Concen: 50.385 ug/l

RT: 10.18 min Scan# 1409

Delta R.T. -0.00 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :

MSVOA_Y

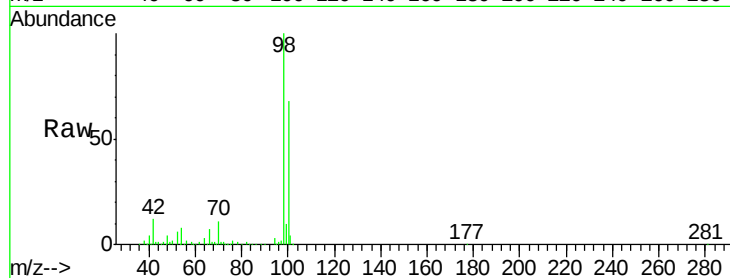
ClientSampled :

Tot Ion: 98 Resp: 209776

Ion Ratio Lower Upper

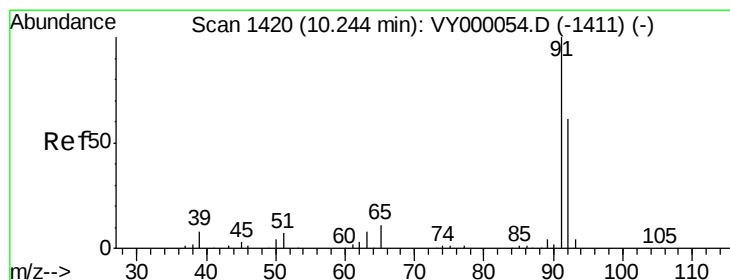
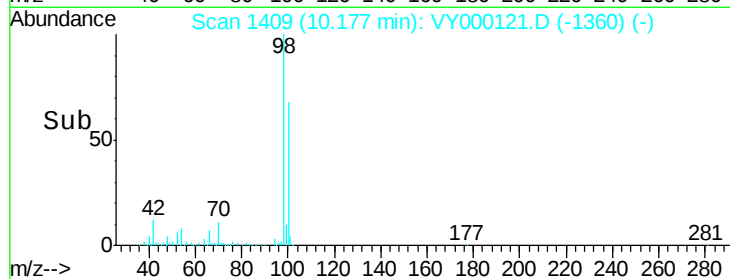
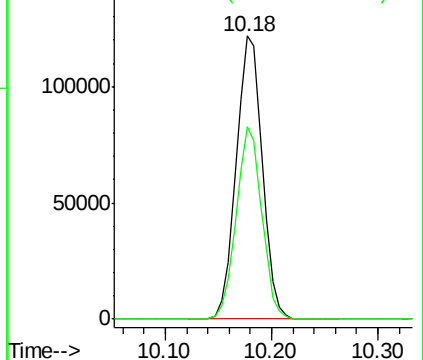
98 100

100 66.5 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



#52

Toluene

Concen: 1.217 ug/l

RT: 10.24 min Scan# 1420

Delta R.T. -0.00 min

Lab File: VY000121.D

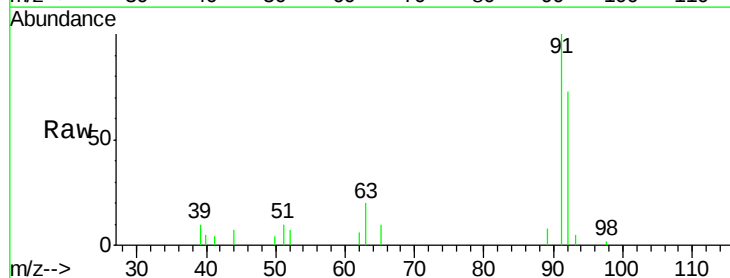
Acq: 20 Sep 2019 20:20

Tgt Ion: 92 Resp: 3343

Ion Ratio Lower Upper

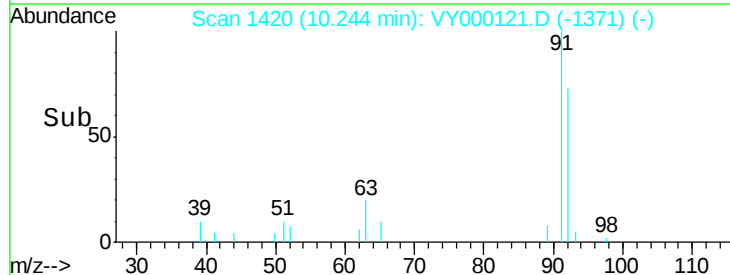
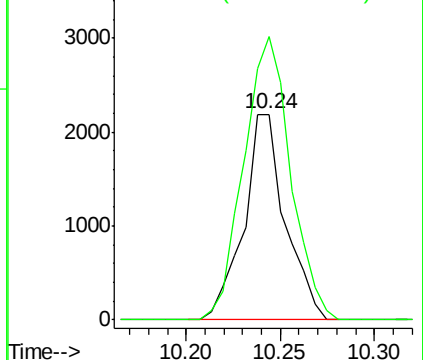
92 100

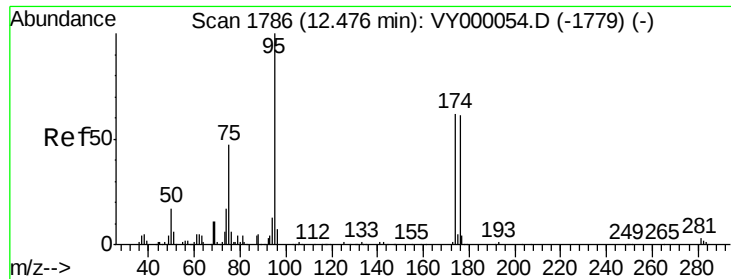
91 155.4 135.8 203.6



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0

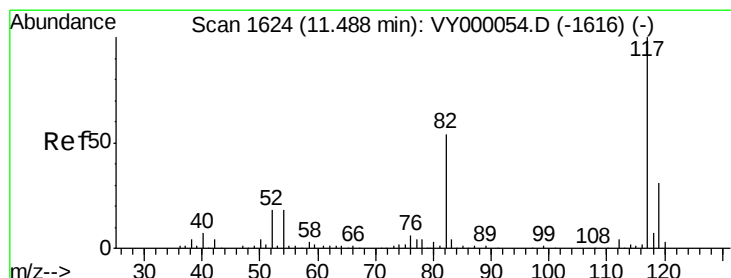
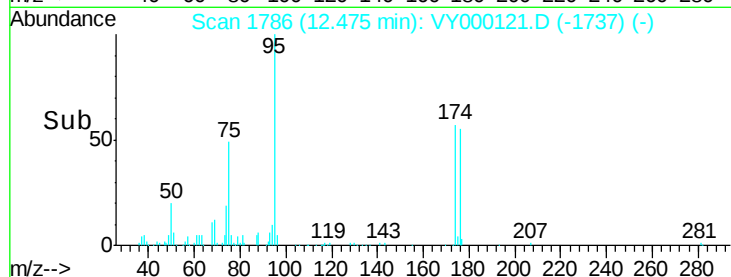
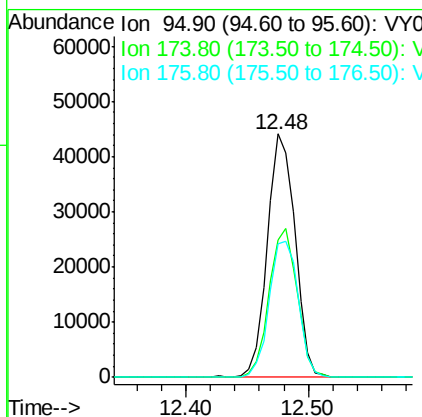
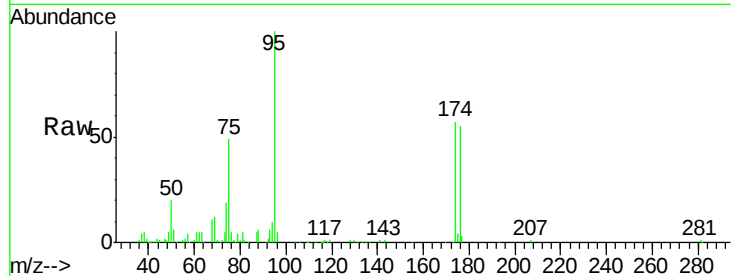




#62
4-Bromofluorobenzene
Concen: 45.179 ug/l
RT: 12.48 min Scan# 1786
Delta R.T. -0.00 min
Lab File: VY000121.D
Acq: 20 Sep 2019 20:20

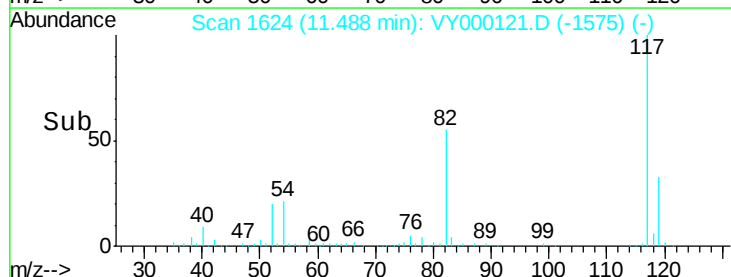
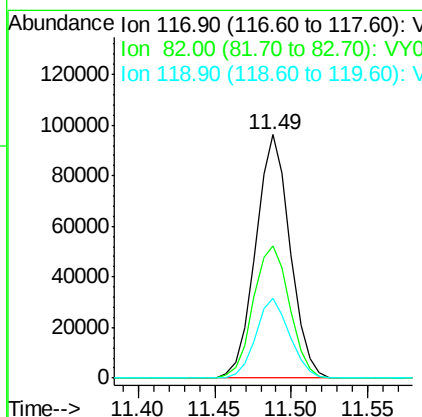
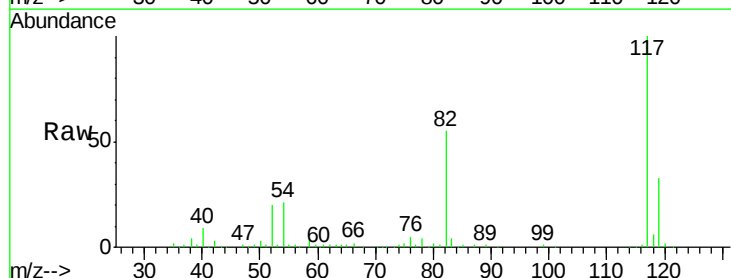
Instrument :
MSVOA_Y
ClientSampled :

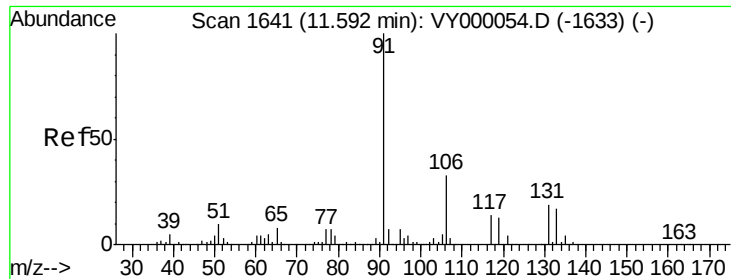
Tot Ion	95	Resp	69836
Ion	Ratio	Lower	Upper
95	100		
174	61.6	0.0	137.2
176	58.4	0.0	135.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000121.D
Acq: 20 Sep 2019 20:20

Tgt Ion	117	Resp	150842
Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.5	65.3
119	33.0	24.6	36.8

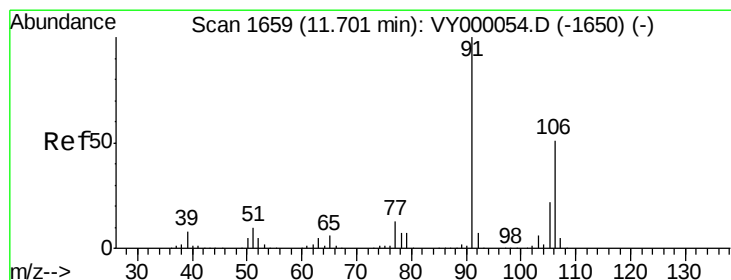
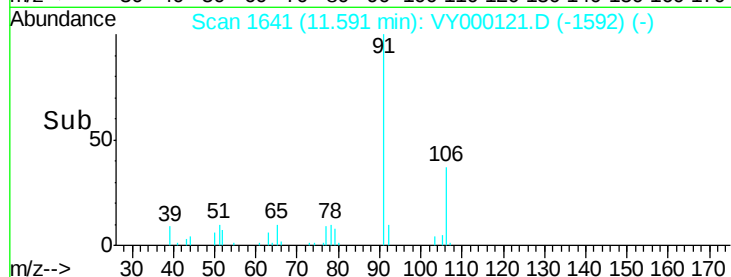
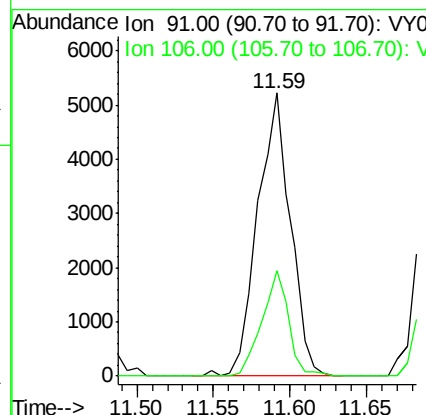
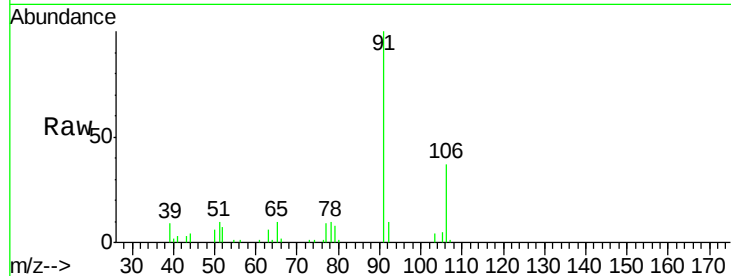




#67
Ethyl Benzene
Concen: 1.463 ug/l
RT: 11.59 min Scan# 1641
Delta R.T. -0.00 min
Lab File: VY000121.D
Acq: 20 Sep 2019 20:20

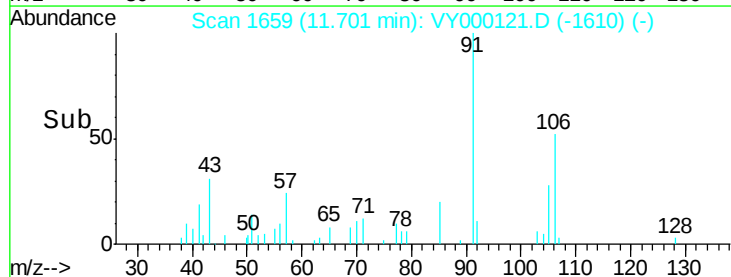
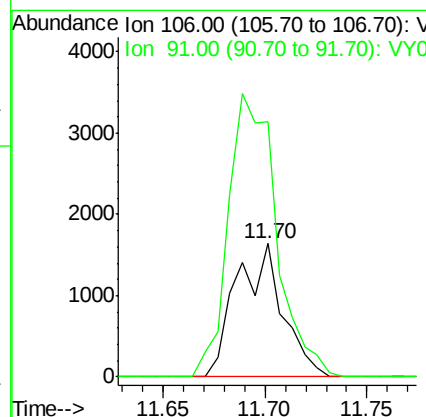
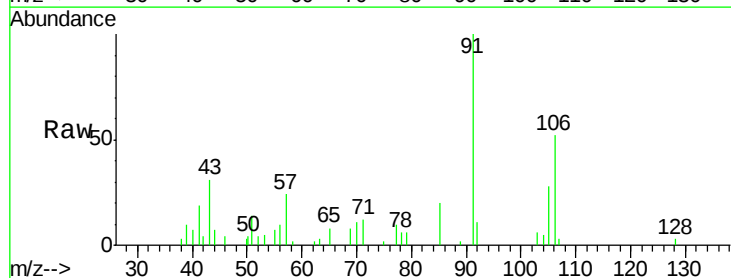
Instrument :
MSVOA_Y
ClientSampled :

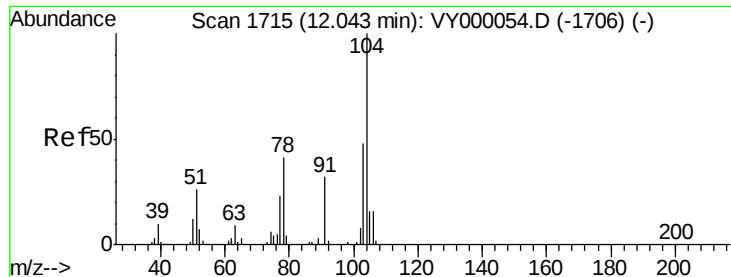
Tot Ion: 91 Resp: 7791
Ion Ratio Lower Upper
91 100
106 37.1 26.6 40.0



#68
m/p-Xylenes
Concen: 1.283 ug/l
RT: 11.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VY000121.D
Acq: 20 Sep 2019 20:20

Tgt Ion: 106 Resp: 2600
Ion Ratio Lower Upper
106 100
91 219.0 154.5 231.7





#70

Stvrene

Concen: 14.507 ug/l

RT: 12.04 min Scan# 1715

Delta R.T. -0.00 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :

MSVOA_Y

ClientSampleId :

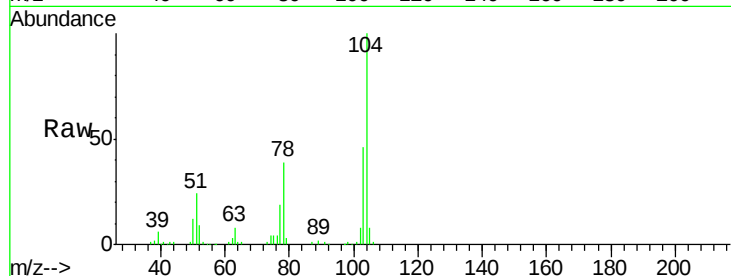
Tot Ion:104 Resp: 49964

Ion Ratio Lower Upper

104 100

78 40.7 37.7 56.5

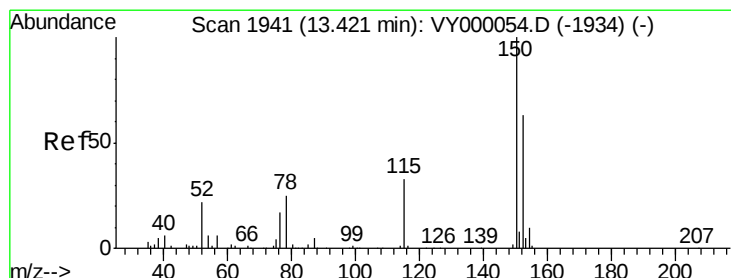
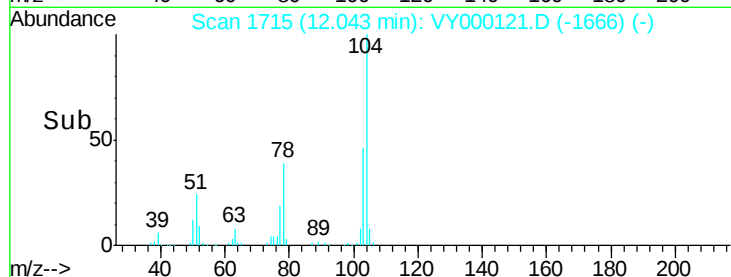
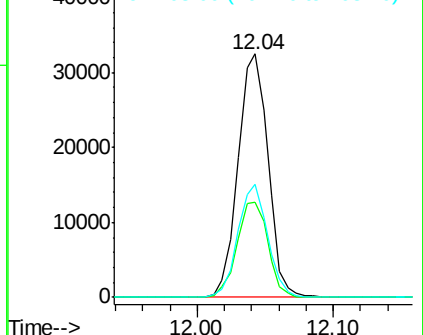
103 46.0 42.2 63.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

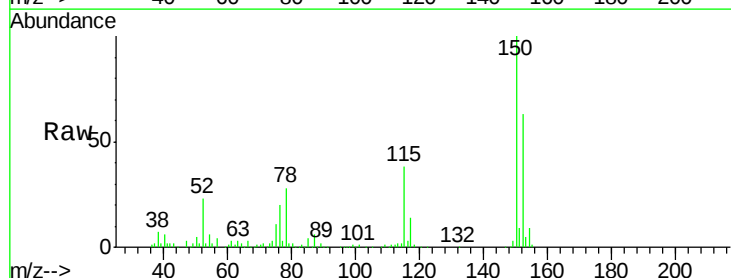
Tgt Ion:152 Resp: 59413

Ion Ratio Lower Upper

152 100

115 63.2 30.7 92.1

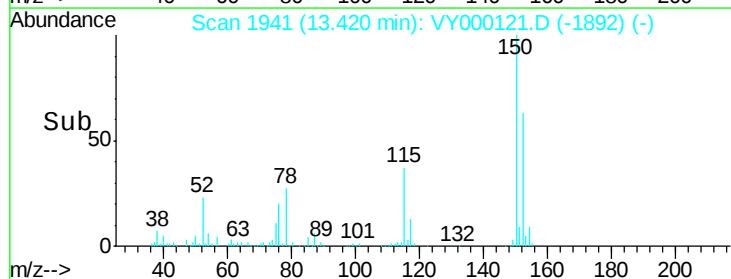
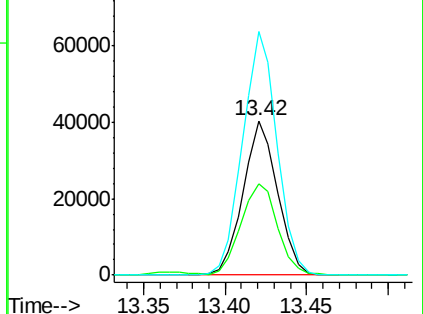
150 157.6 0.0 351.6

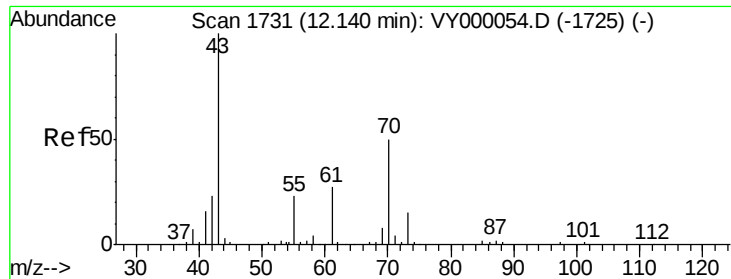


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.589 ug/l

RT: 12.11 min Scan# 1726

Delta R.T. -0.03 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :

MSVOA_Y

ClientSampled :

Tot Ion: 43 Resp: 2167

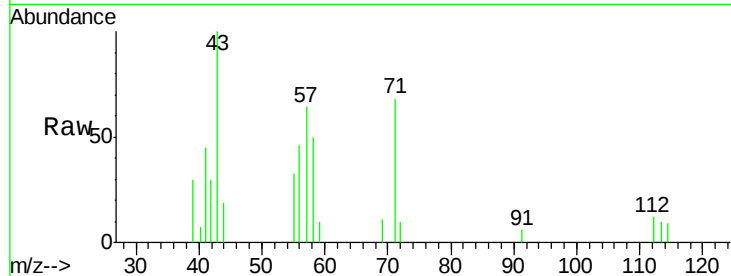
Ion Ratio Lower Upper

43 100

70 8.1 38.8 58.2#

55 26.4 18.8 28.2

61 0.0 21.4 32.2#

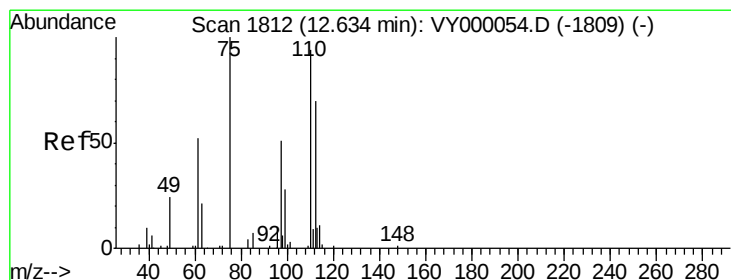
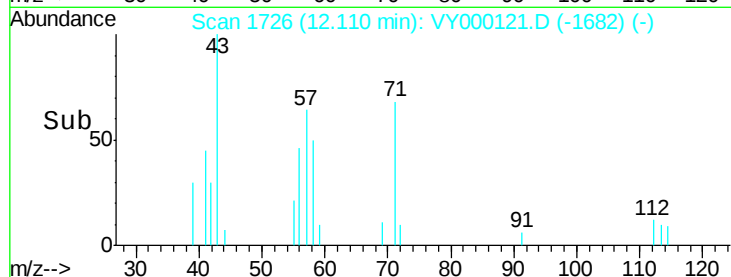
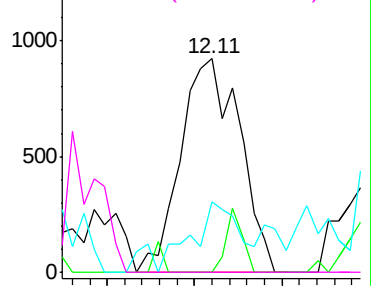


Abundance Ion 43.00 (42.70 to 43.70): VY0

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: 41.585 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.16 min

Lab File: VY000121.D

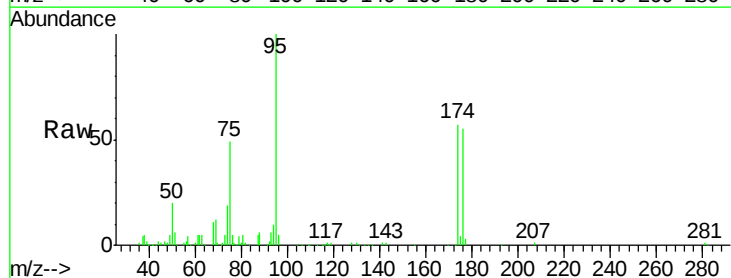
Acq: 20 Sep 2019 20:20

Tgt Ion: 75 Resp: 34762

Ion Ratio Lower Upper

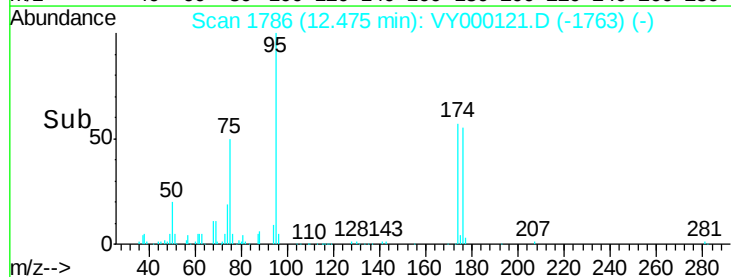
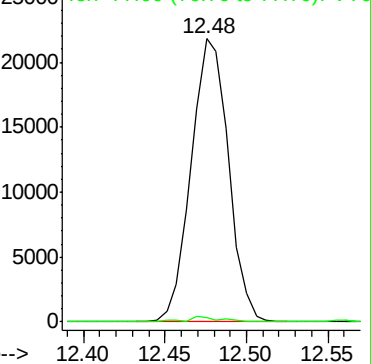
75 100

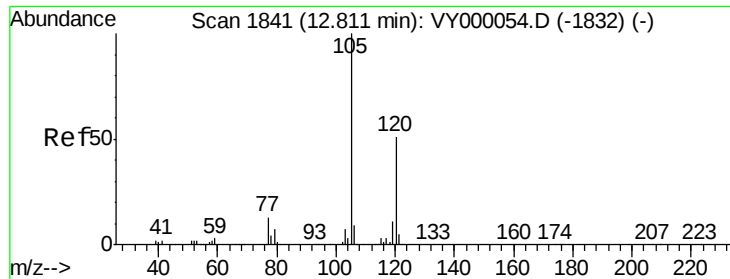
77 1.6 0.0 0.0#



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: 1.519 ug/l

RT: 12.80 min Scan# 1840

Delta R.T. -0.01 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :

MSVOA_Y

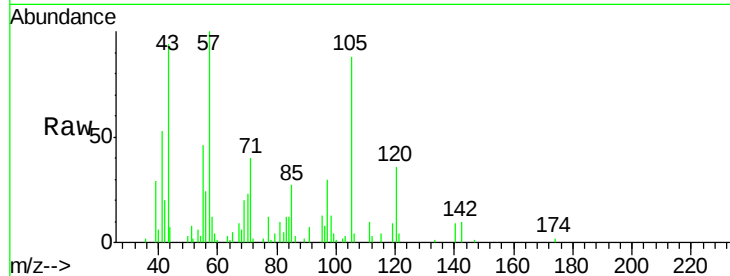
ClientSampleId :

Tot Ion:105 Resp: 6024

Ion Ratio Lower Upper

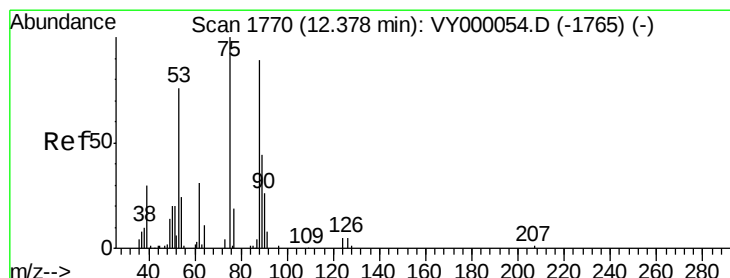
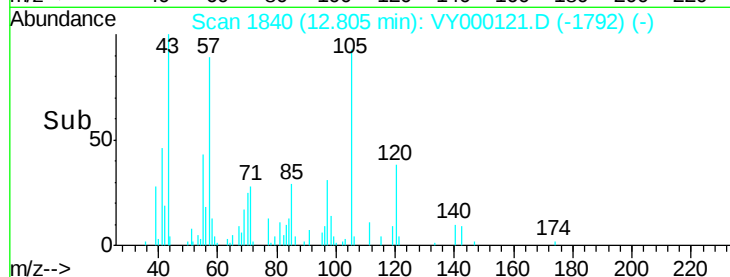
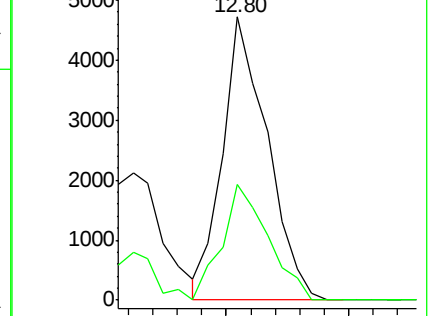
105 100

120 42.0 24.9 74.6



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: 79.977 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. 0.10 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

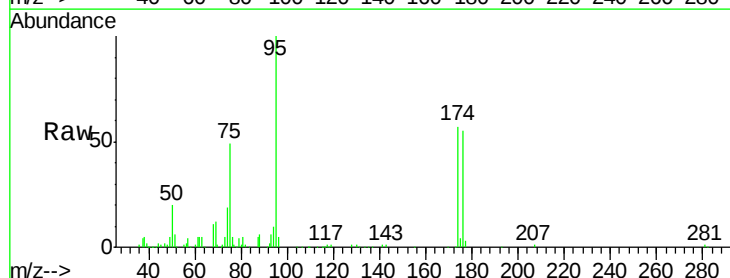
Tgt Ion: 75 Resp: 34762

Ion Ratio Lower Upper

75 100

53 0.0 60.9 91.3#

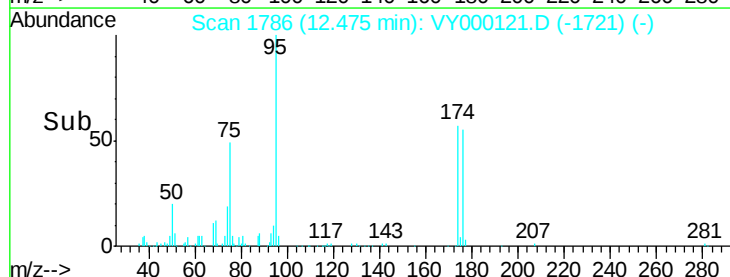
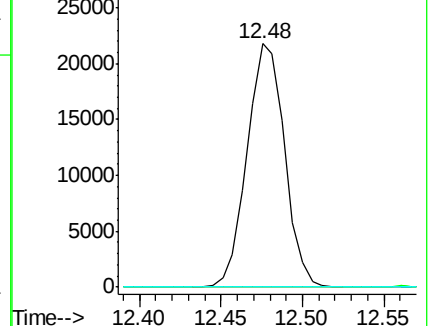
89 0.0 35.3 52.9#

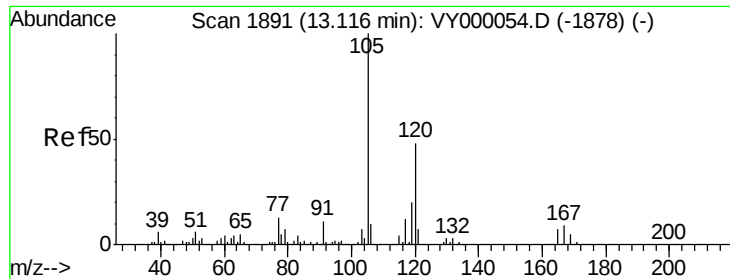


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

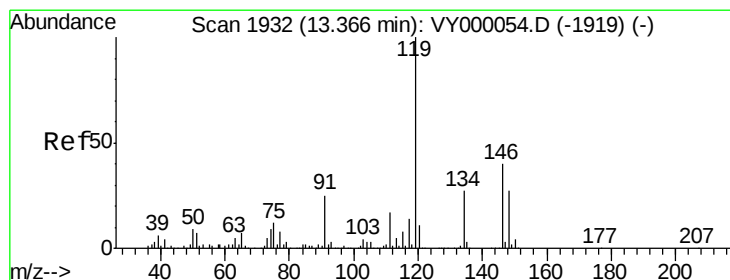
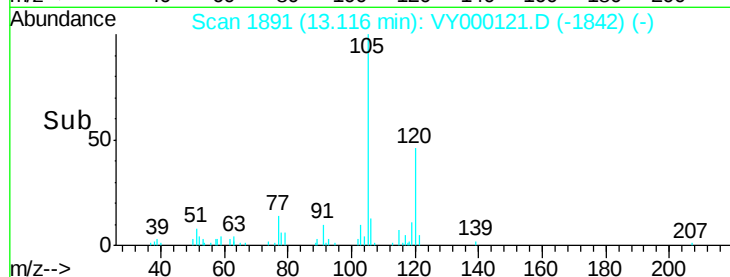
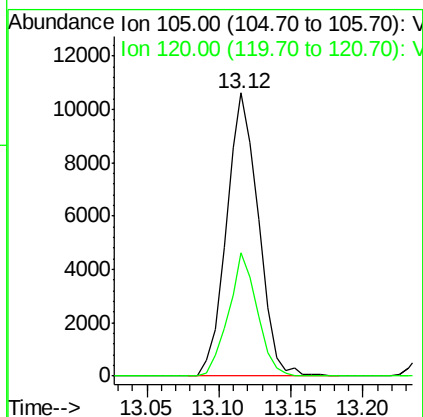
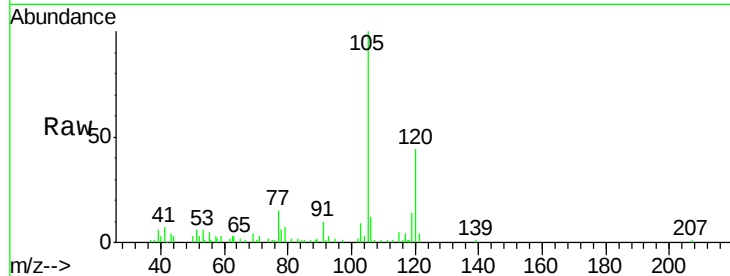




#84
 1,2,4-Trimethylbenzene
 Concen: 4.202 ug/l
 RT: 13.12 min Scan# 1891
 Delta R.T. -0.00 min
 Lab File: VY000121.D
 Acq: 20 Sep 2019 20:20

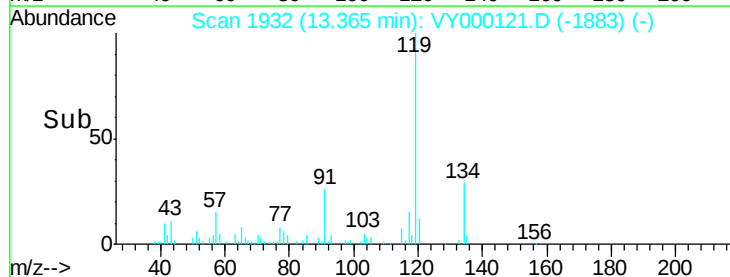
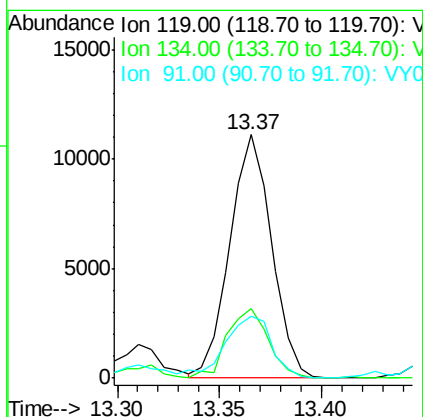
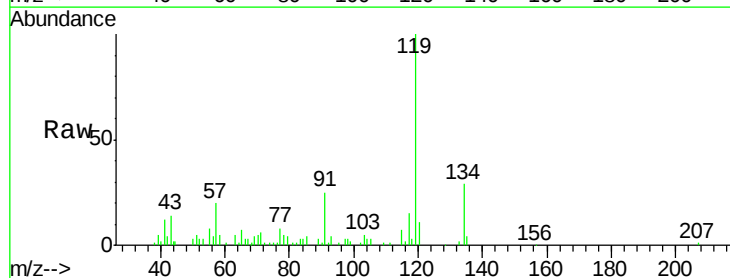
Instrument :
 MSVOA_Y
 ClientSampled :

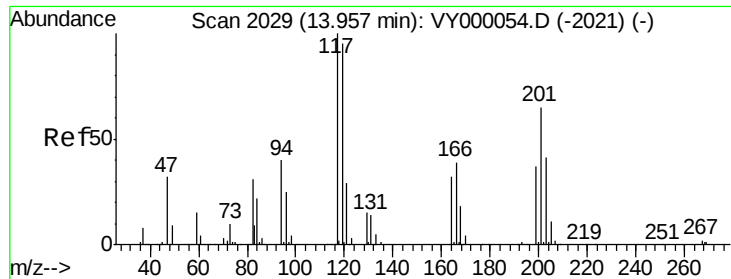
Tot Ion:105 Resp: 16431
 Ion Ratio Lower Upper
 105 100
 120 39.2 22.9 68.7



#86
 p-Isopropyltoluene
 Concen: 3.721 ug/l
 RT: 13.37 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VY000121.D
 Acq: 20 Sep 2019 20:20

Tgt Ion:119 Resp: 15814
 Ion Ratio Lower Upper
 119 100
 134 28.3 13.4 40.2
 91 28.4 12.4 37.4





#90

Hexachloroethane

Concen: 1.624 ug/l

RT: 13.97 min Scan# 2031

Delta R.T. 0.01 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

Instrument :

MSVOA_Y

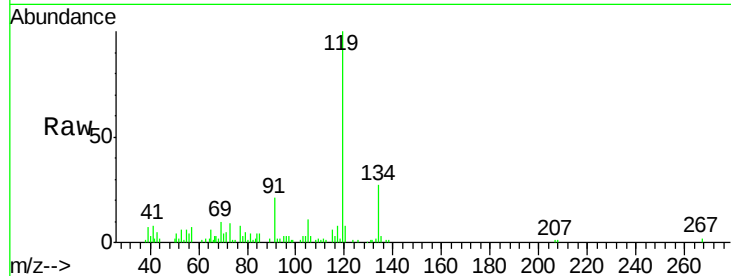
ClientSampled :

Tot Ion:117 Resp: 1356

Ion Ratio Lower Upper

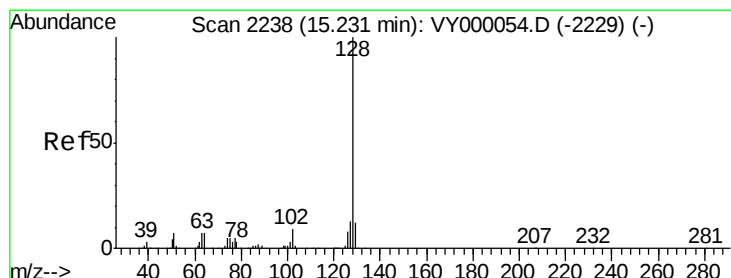
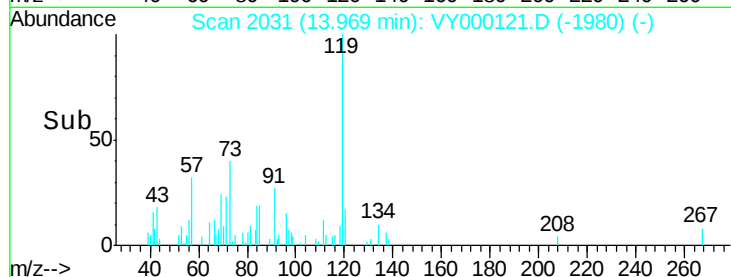
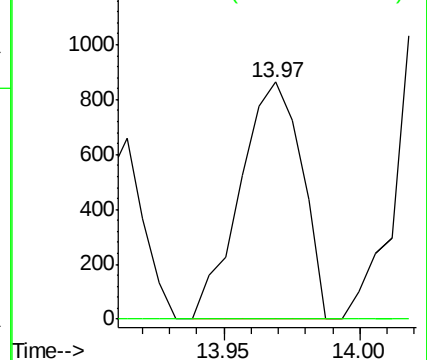
117 100

201 0.0 30.6 92.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 2.524 ug/l

RT: 15.22 min Scan# 2237

Delta R.T. -0.01 min

Lab File: VY000121.D

Acq: 20 Sep 2019 20:20

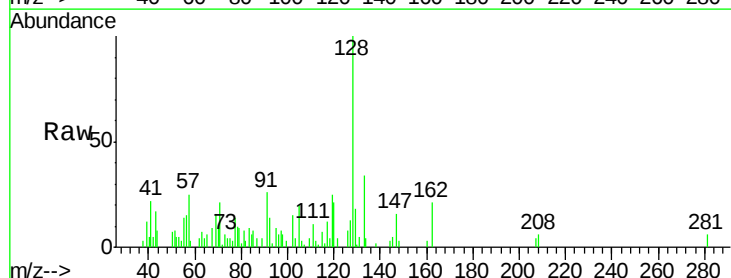
Tgt Ion:128 Resp: 8056

Ion Ratio Lower Upper

128 100

127 13.5 10.3 15.5

129 11.1 9.2 13.8



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

