

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 : 5.00µl/5.00ml/MSVOA Y/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MG-DIESEL-BOTTOM-SOIL

Quant Time: Sep 21 01:06:42 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%	

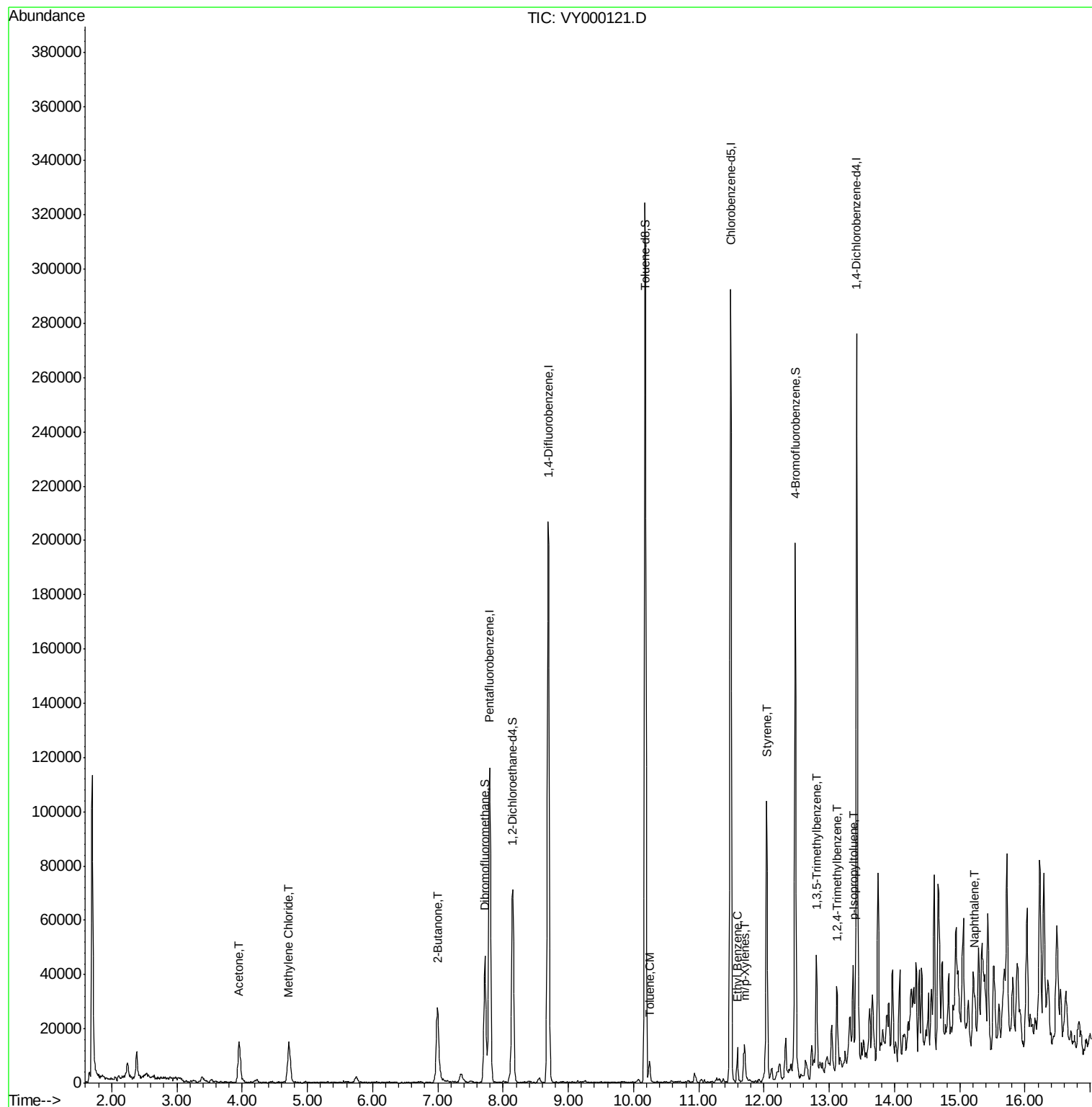
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.95	43	25116	115.708	ug/l	88
20) Methylene Chloride	4.71	84	10882	10.657	ug/l	92
25) 2-Butanone	6.99	43	19175	48.772	ug/l	98
52) Toluene	10.24	92	3343	1.217	ug/l	90
67) Ethyl Benzene	11.59	91	7791	1.463	ug/l	93
68) m/p-Xylenes	11.70	106	2600	1.283	ug/l	83
70) Styrene	12.04	104	49964	14.507	ug/l	90
80) 1,3,5-Trimethylbenzene	12.80	105	6024	1.519	ug/l	89
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
95) Naphthalene	15.22	128	8056	2.524	ug/l	99

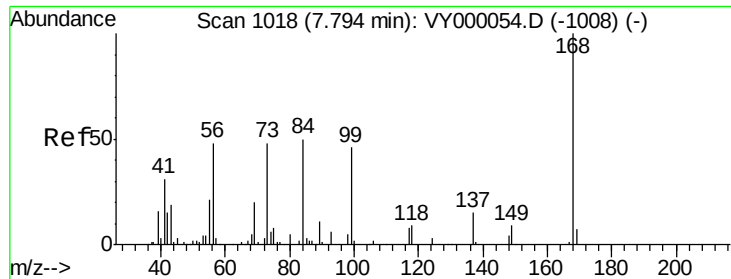
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY092019\
Data File : VY000121.D
Acq On : 20 Sep 2019 20:20
Operator : SY/MD
Sample : K4938-06
Misc : 5.00µl/5.00ml/MSVOA Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
MG-DIESEL-BOTTOM-SOIL

Quant Time: Sep 21 01:06:42 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

ClientSampleId :

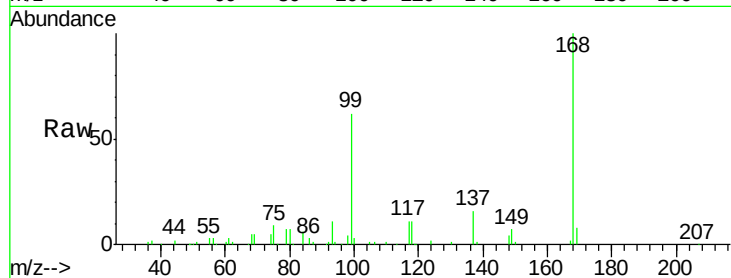
MG-DIESEL-BOTTOM-SOIL

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) (-)

Ion 98.90 (98.60 to 99.60): VY000054.D (-1008) (-)

7.79

40000

30000

20000

10000

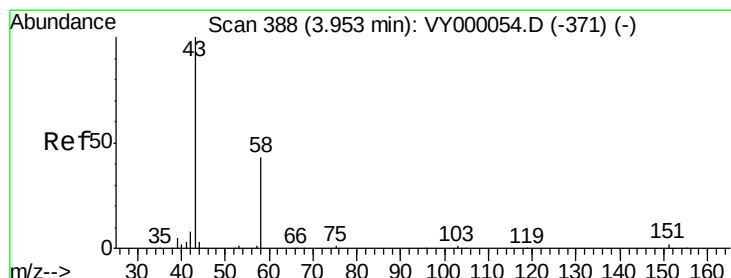
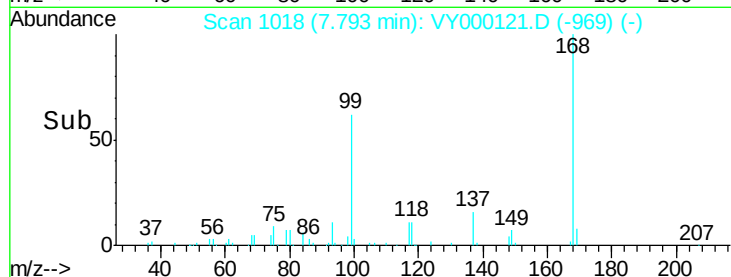
0

Time-->

7.70

7.80

7.90



#16

Acetone

Concen: 115.708 ug/l

RT: 3.95 min Scan# 387

Delta R.T. -0.01 min

Lab File: VY000121.D

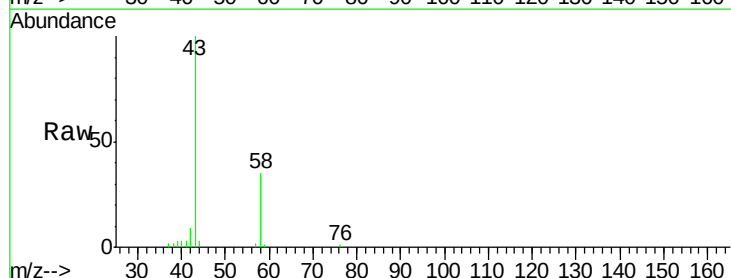
Acq: 20 Sep 2019 20:20

Tgt Ion: 43 Resp: 25116

Ion Ratio Lower Upper

43 100

58 35.2 34.5 51.7



Abundance Ion 43.00 (42.70 to 43.70): VY000054.D (-371) (-)

Ion 58.00 (57.70 to 58.70): VY000054.D (-371) (-)

3.95

10000

8000

6000

4000

2000

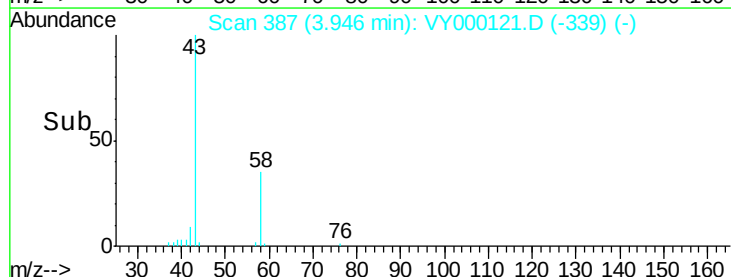
0

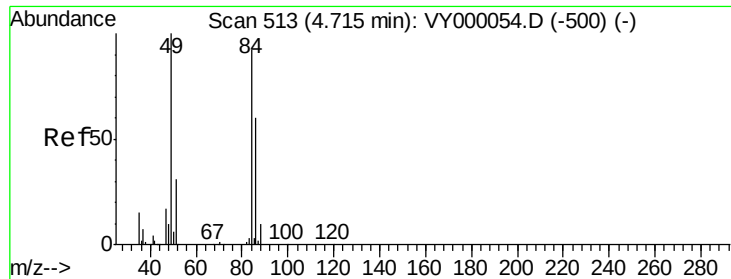
Time-->

3.90

4.00

4.10

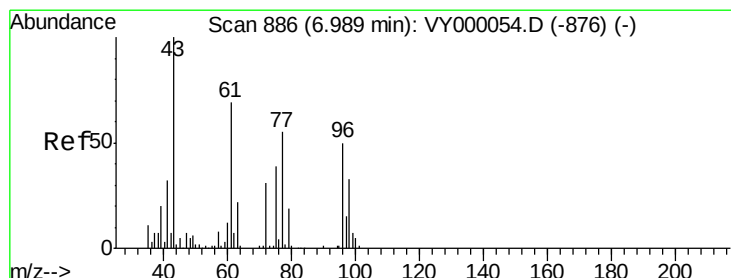
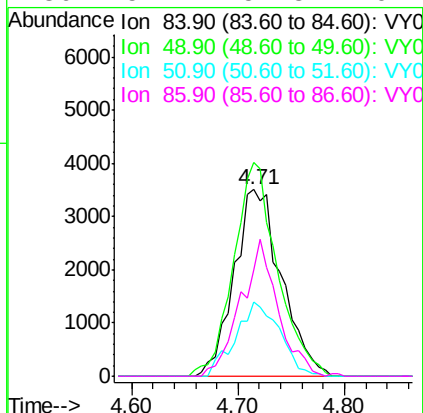
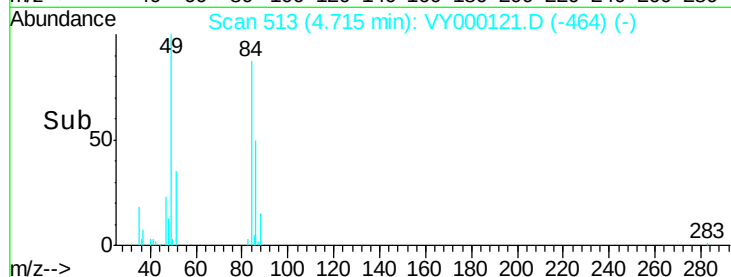
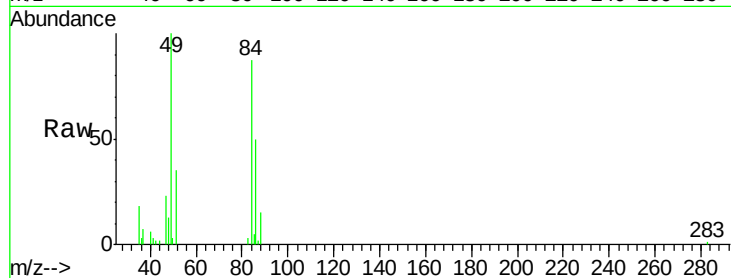




#20
Methvlene Chloride
Concen: 10.657 ug/l
RT: 4.71 min Scan# 513
Delta R.T. -0.00 min
Lab File: VY000121.D
Acq: 20 Sep 2019 20:20

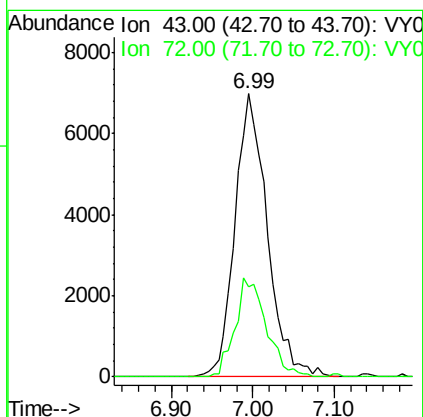
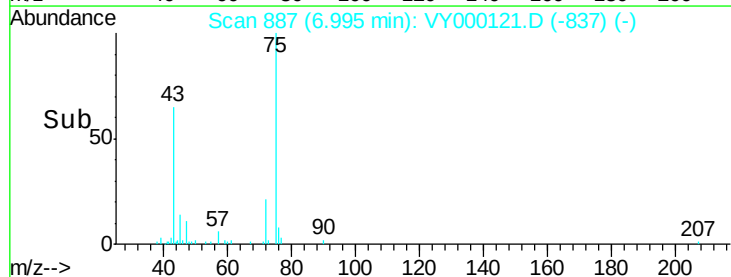
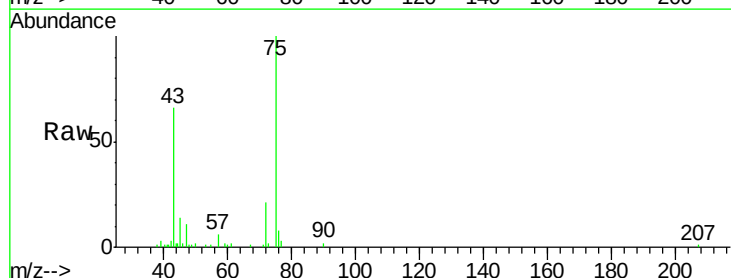
Instrument :
MSVOA_Y
ClientSampleId :
MG-DIESEL-BOTTOM-SOIL

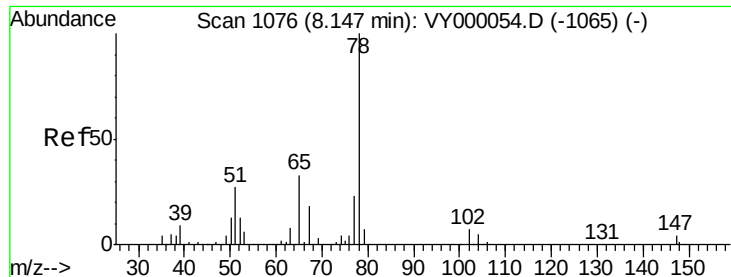
Tot Ion:	84	Resp:	10882
Ion	Ratio	Lower	Upper
84	100		
49	114.5	87.4	131.0
51	39.6	27.2	40.8
86	57.2	52.8	79.2



#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

Tgt Ion:	43	Resp:	19175
Ion	Ratio	Lower	Upper
43	100		
72	31.7	24.7	37.1

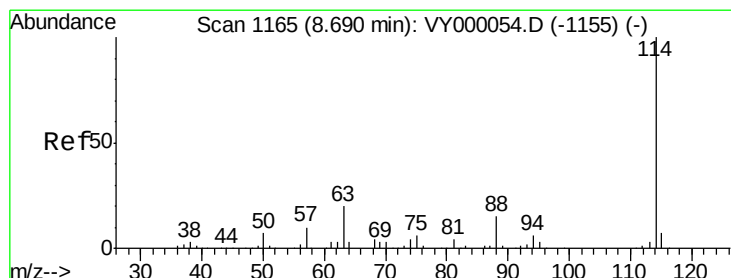
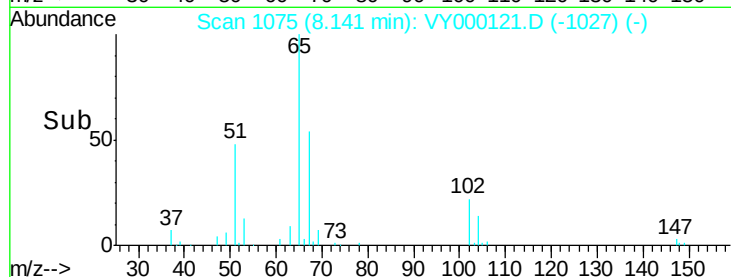
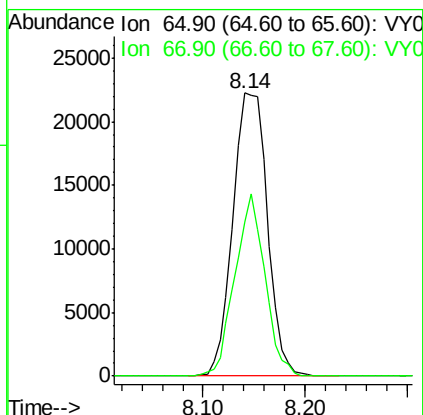
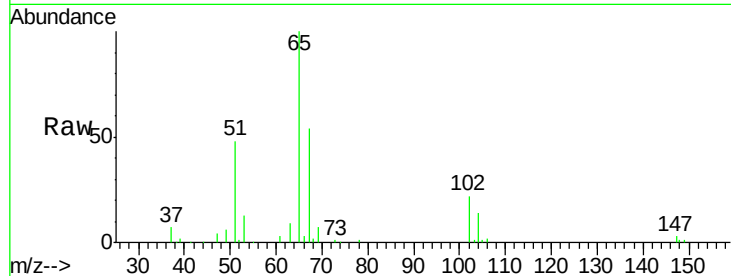




#33
 1,2-Dichloroethane-d4
 Concen: 56.091 ug/l
 RT: 8.14 min Scan# 1075
 Delta R.T. -0.01 min
 Lab File: VY000121.D
 Acq: 20 Sep 2019 20:20

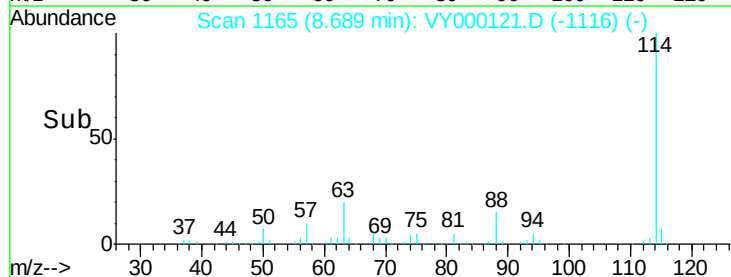
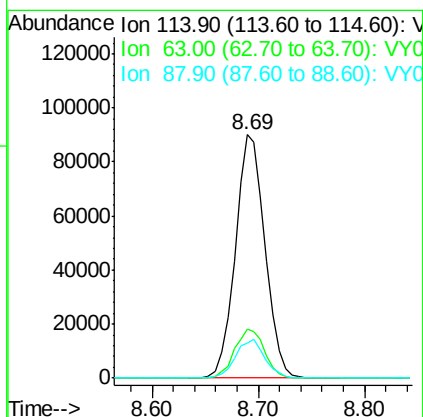
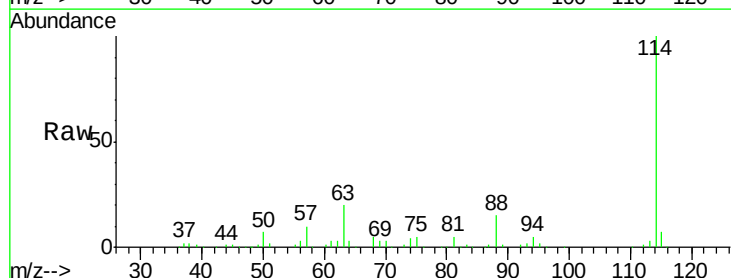
Instrument :
 MSVOA_Y
 ClientSampleId :
 MG-DIESEL-BOTTOM-SOIL

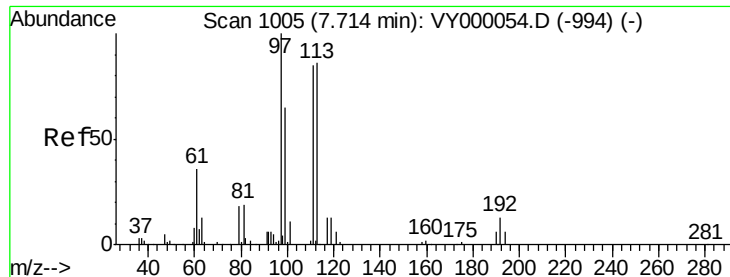
Tot Ion: 65 Resp: 52292
 Ion Ratio Lower Upper
 65 100
 67 55.9 0.0 111.0



#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

Tgt Ion: 114 Resp: 175073
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.4
 88 14.6 0.0 30.2





#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

Instrument :

MSVOA_Y

ClientSampleId :

MG-DIESEL-BOTTOM-SOIL

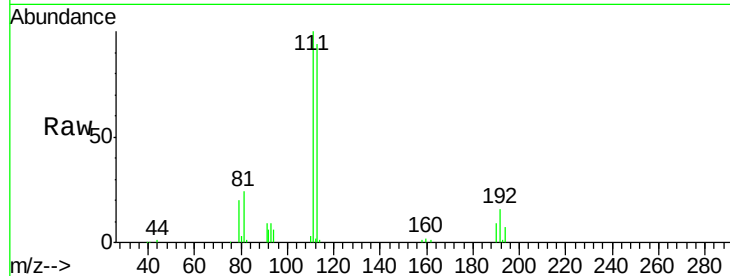
Tot Ion:113 Resp: 31972

Ion Ratio Lower Upper

113 100

111 105.7 81.7 122.5

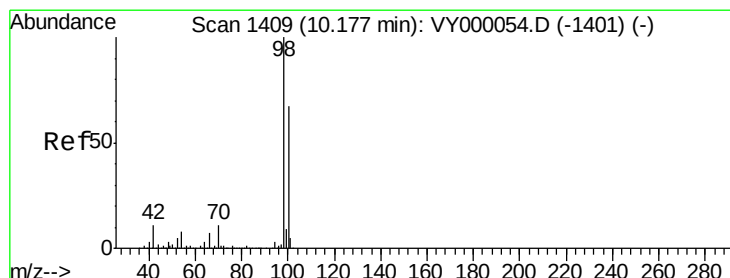
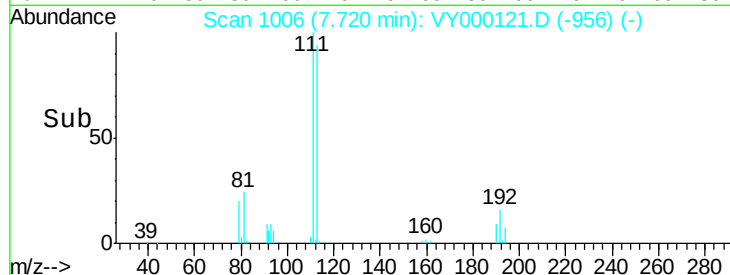
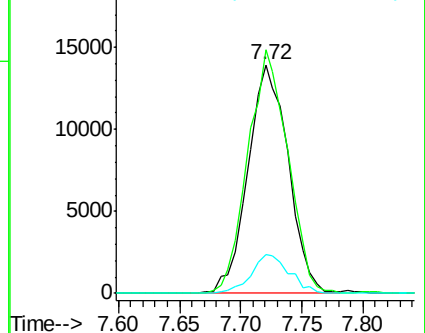
192 16.2 13.4 20.2



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



#50

Toluene-d8

Concen: 50.385 ug/l

RT: 10.18 min Scan# 1409

Delta R.T. -0.00 min

Lab File: VY000121.D

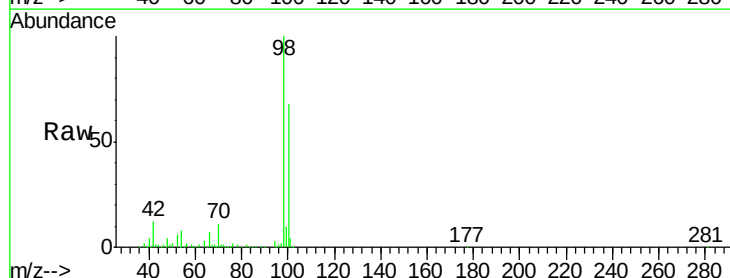
Acq: 20 Sep 2019 20:20

Tgt Ion: 98 Resp: 209776

Ion Ratio Lower Upper

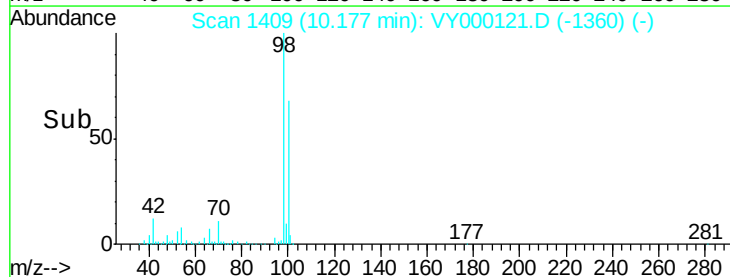
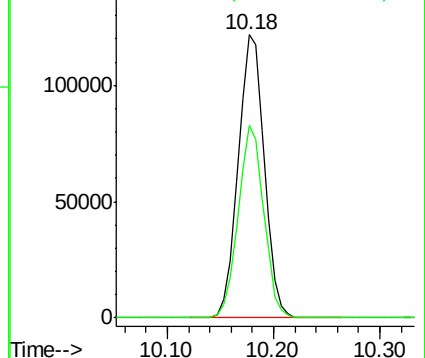
98 100

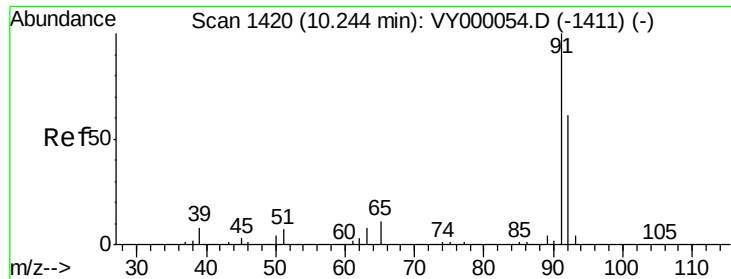
100 66.5 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#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

Instrument :

MSVOA_Y

ClientSampleId :

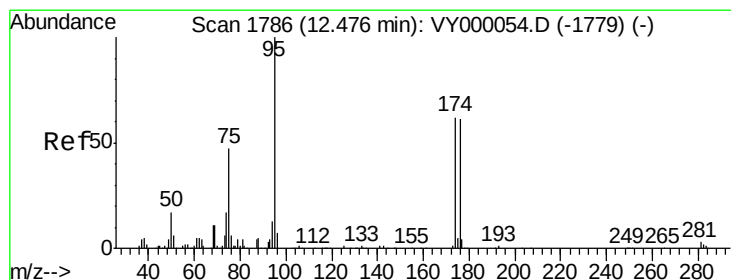
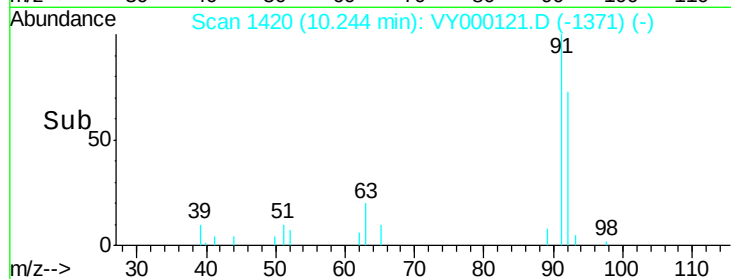
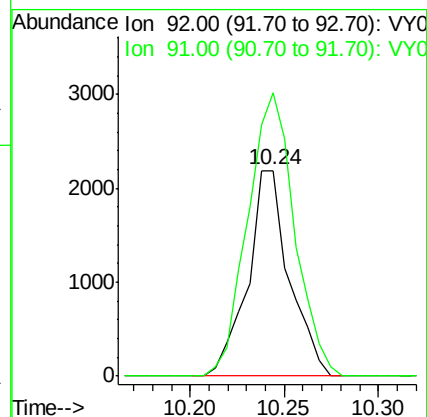
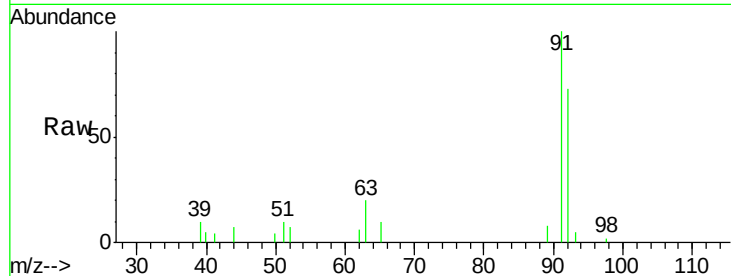
MG-DIESEL-BOTTOM-SOIL

Tot Ion: 92 Resp: 3343

Ion Ratio Lower Upper

92 100

91 155.4 135.8 203.6



#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

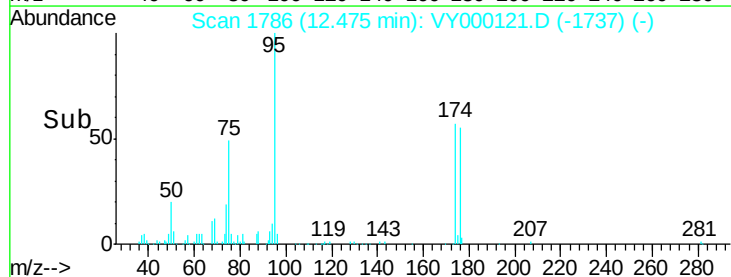
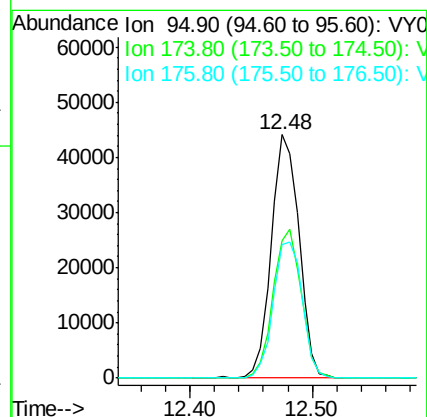
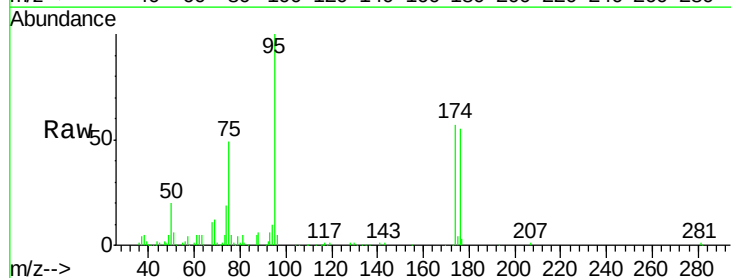
Tgt Ion: 95 Resp: 69836

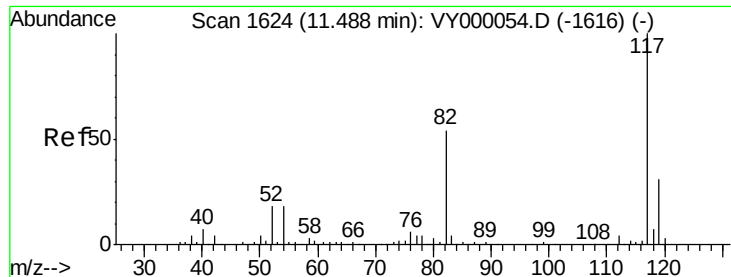
Ion Ratio Lower Upper

95 100

174 61.6 0.0 137.2

176 58.4 0.0 135.0

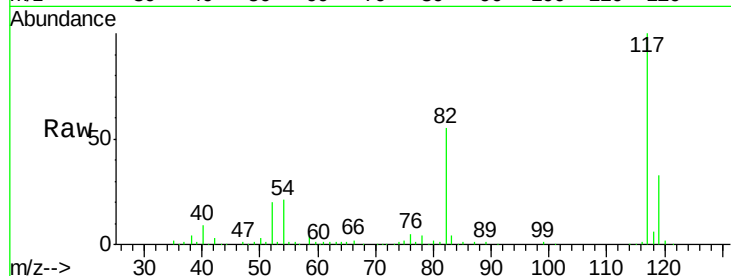




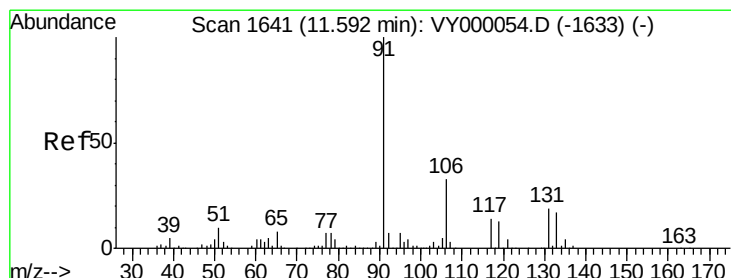
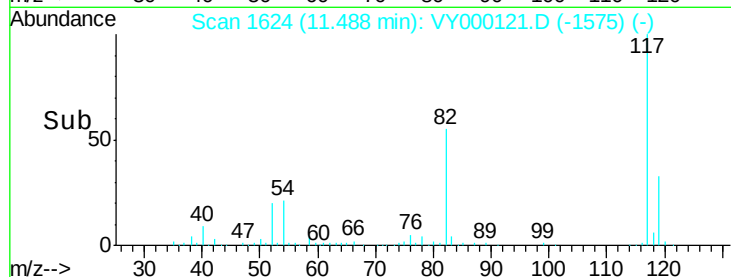
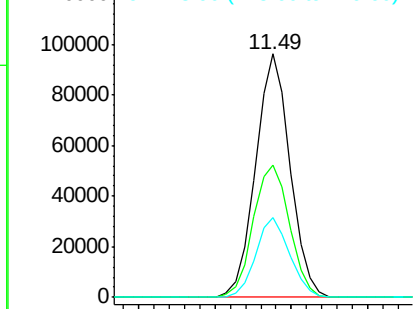
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000121.D
Acq: 20 Sep 2019 20:20

Instrument :
MSVOA_Y
ClientSampleId :
MG-DIESEL-BOTTOM-SOIL

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

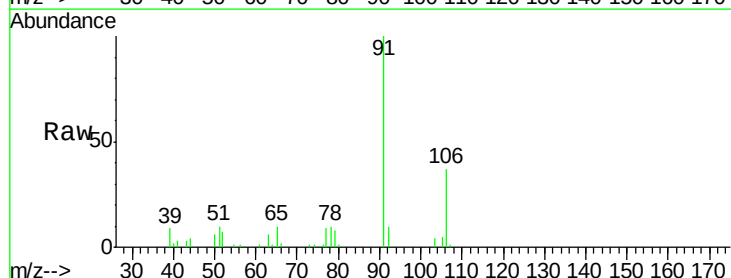


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

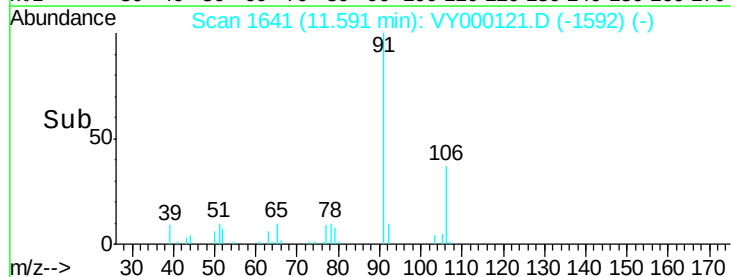
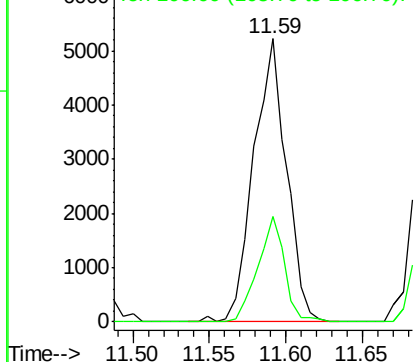


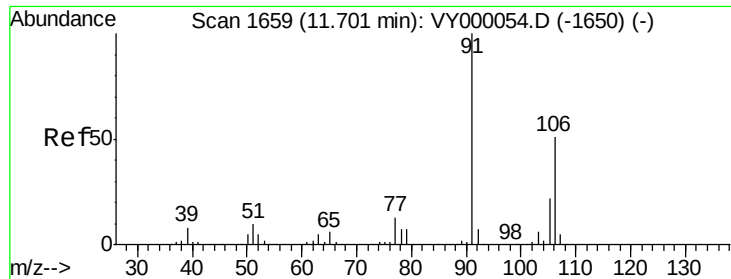
#67
Ethyl Benzene
Concen: 1.463 ug/l
RT: 11.59 min Scan# 1641
Delta R.T. -0.00 min
Lab File: VY000121.D
Acq: 20 Sep 2019 20:20

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



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





#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

Instrument :

MSVOA_Y

ClientSampleId :

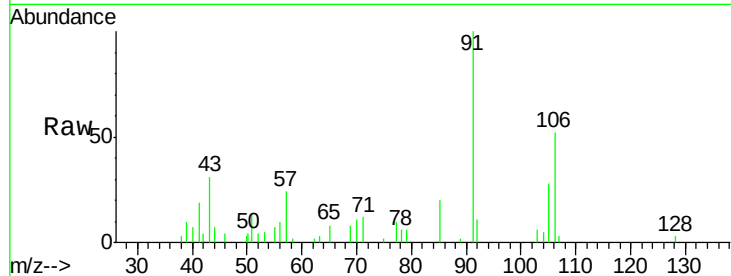
MG-DIESEL-BOTTOM-SOIL

Tot Ion:106 Resp: 2600

Ion Ratio Lower Upper

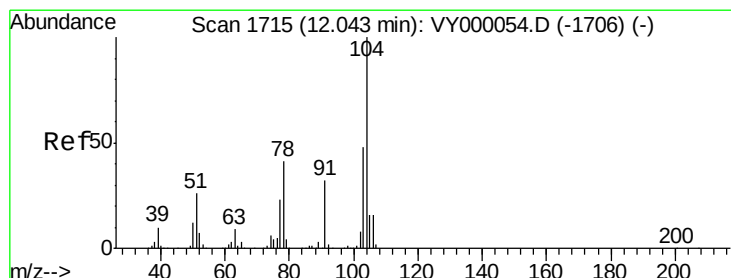
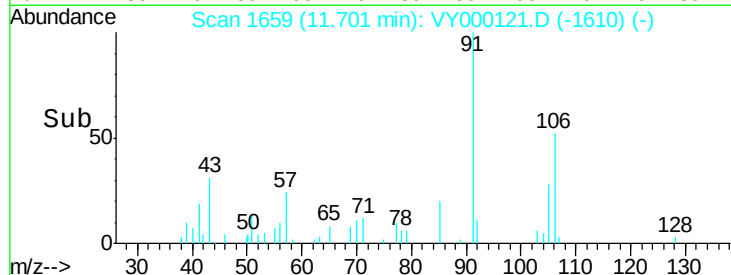
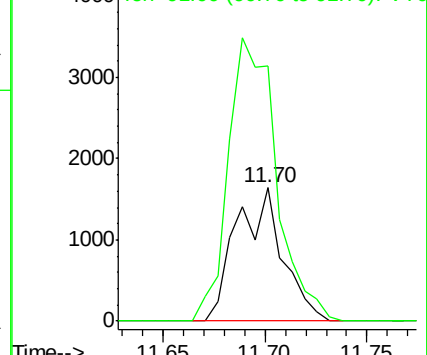
106 100

91 219.0 154.5 231.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#70

Styrene

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

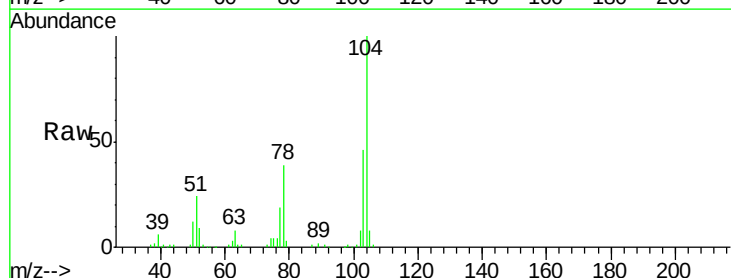
Tgt Ion:104 Resp: 49964

Ion Ratio Lower Upper

104 100

78 40.7 37.7 56.5

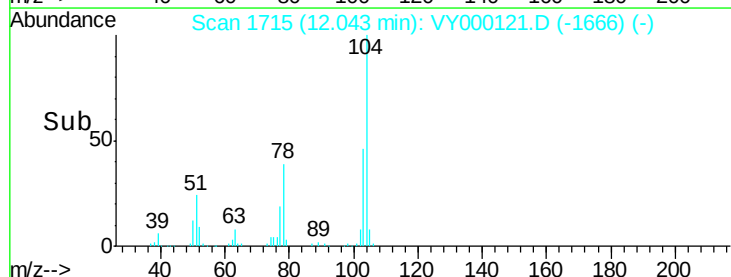
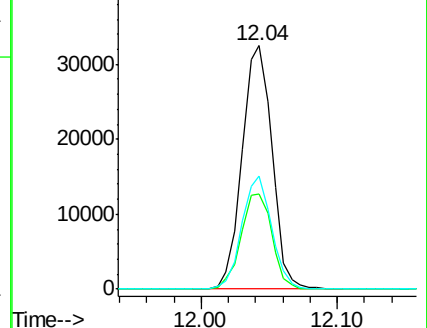
103 46.0 42.2 63.4

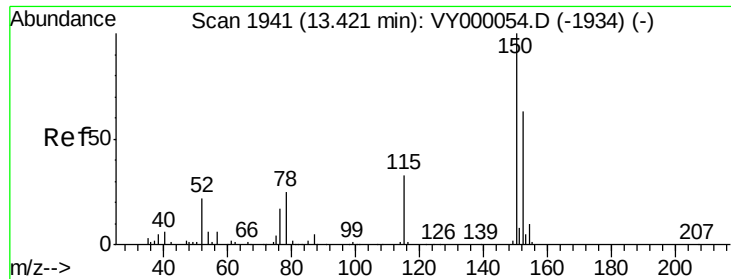


Abundance Ion 104.00 (103.70 to 104.70): V

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

Instrument :

MSVOA_Y

ClientSampleId :

MG-DIESEL-BOTTOM-SOIL

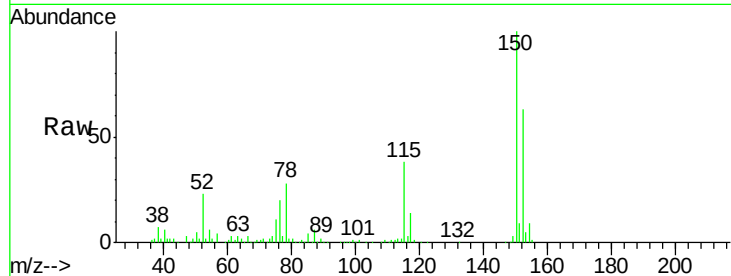
Tot Ion:152 Resp: 59413

Ion Ratio Lower Upper

152 100

115 63.2 30.7 92.1

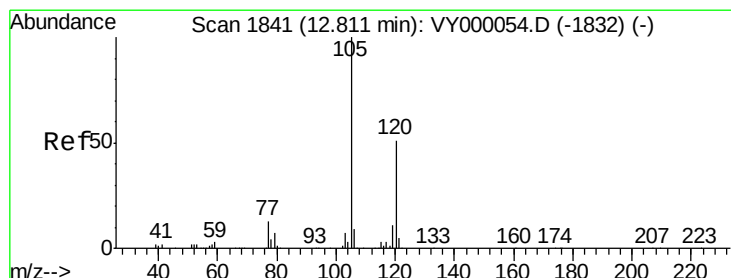
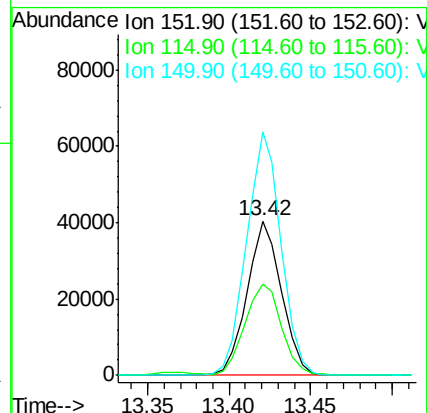
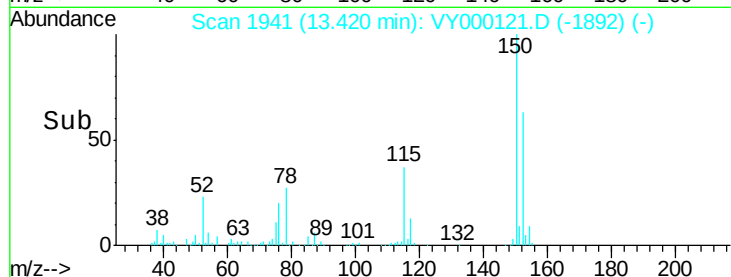
150 157.6 0.0 351.6



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



#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

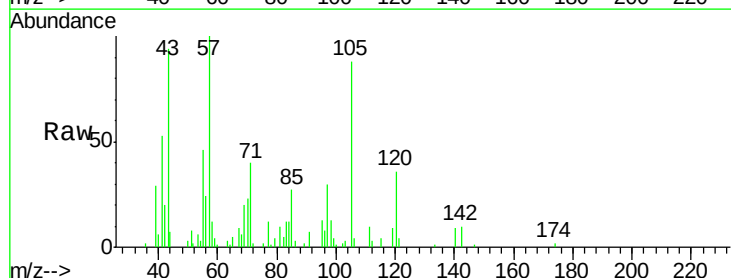
Acq: 20 Sep 2019 20:20

Tgt Ion:105 Resp: 6024

Ion Ratio Lower Upper

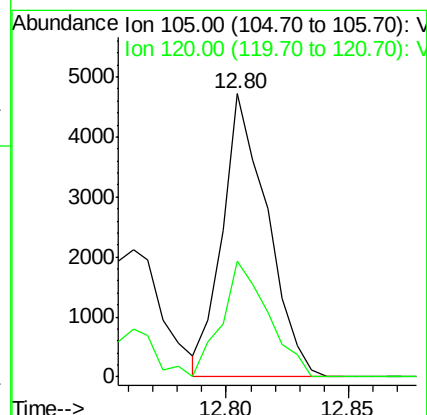
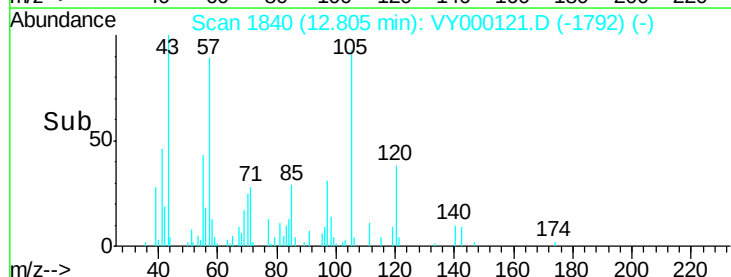
105 100

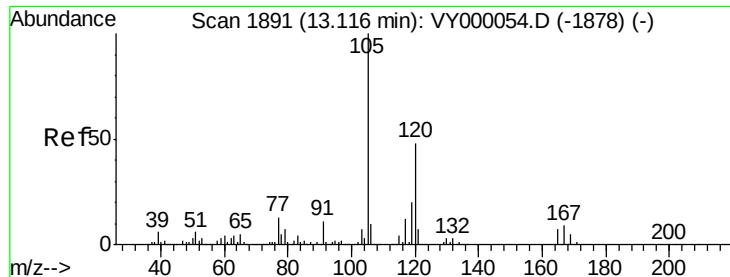
120 42.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

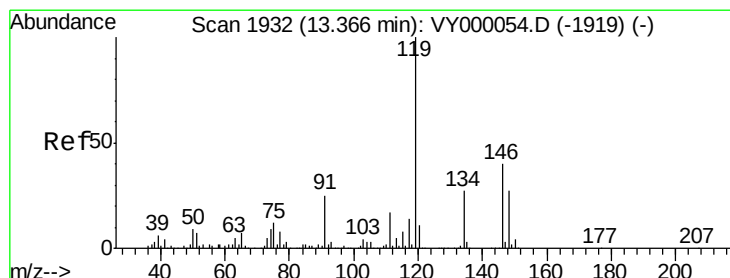
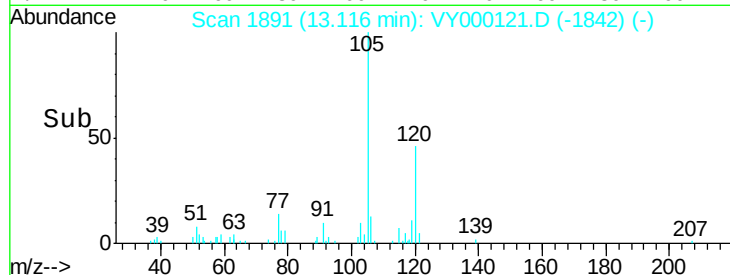
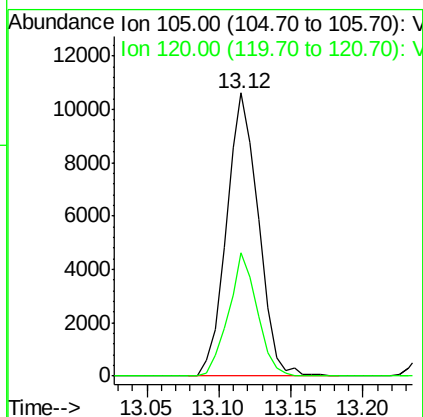
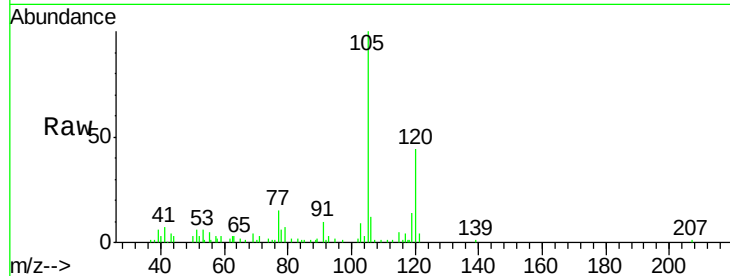




#84
 1,2,4-Trimethylbenzene
 Concen: 4.202 ug/l
 RT: 13.12 min Scan# 1891
 Delta R.T. -0.00 min
 Lab File: VY000121.D
 Acq: 20 Sep 2019 20:20

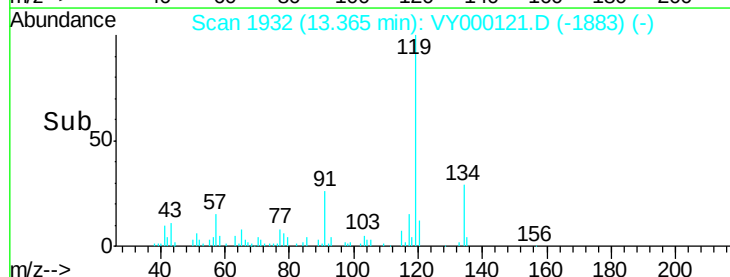
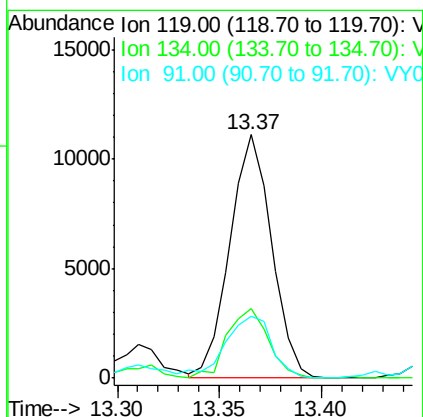
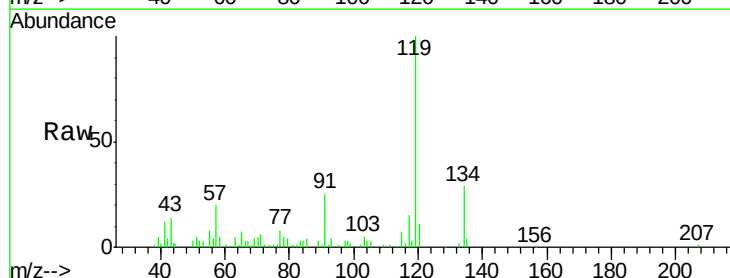
Instrument :
 MSVOA_Y
 ClientSampleId :
 MG-DIESEL-BOTTOM-SOIL

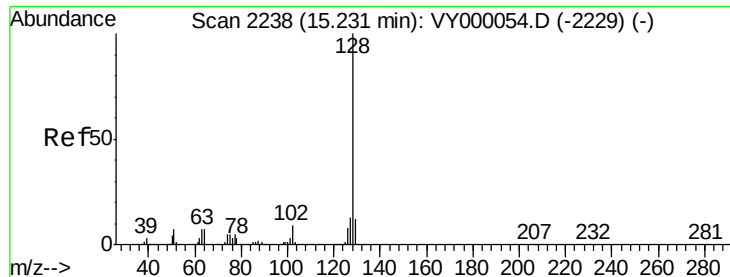
Tot Ion:105 Resp: 16431
 Ion Ratio Lower Upper
 105 100
 120 39.2 22.9 68.7



#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

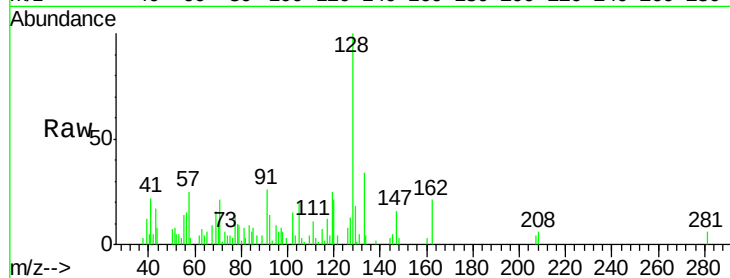




#95
Naphthalene
Concen: 2.524 ug/l
RT: 15.22 min Scan# 2237
Delta R.T. -0.01 min
Lab File: VY000121.D
Acq: 20 Sep 2019 20:20

Instrument :
MSVOA_Y
ClientSampleId :
MG-DIESEL-BOTTOM-SOIL

Tot 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

