

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060506.D
 Acq On : 13 Mar 2020 16:35
 Operator : JC/MD
 Sample : L1893-24
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-14-DA

Quant Time: Mar 16 09:09:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	215666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	354971	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	328957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	157169	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	137032	49.52	ug/l	0.00
Spiked Amount						
			Recovery	=	99.04%	
35) Dibromofluoromethane	7.56	113	104409	63.37	ug/l	0.00
Spiked Amount						
			Recovery	=	126.74%	
50) Toluene-d8	10.08	98	440729	52.85	ug/l	0.00
Spiked Amount						
			Recovery	=	105.70%	
62) 4-Bromofluorobenzene	12.40	95	165126	52.24	ug/l	0.00
Spiked Amount						
			Recovery	=	104.48%	

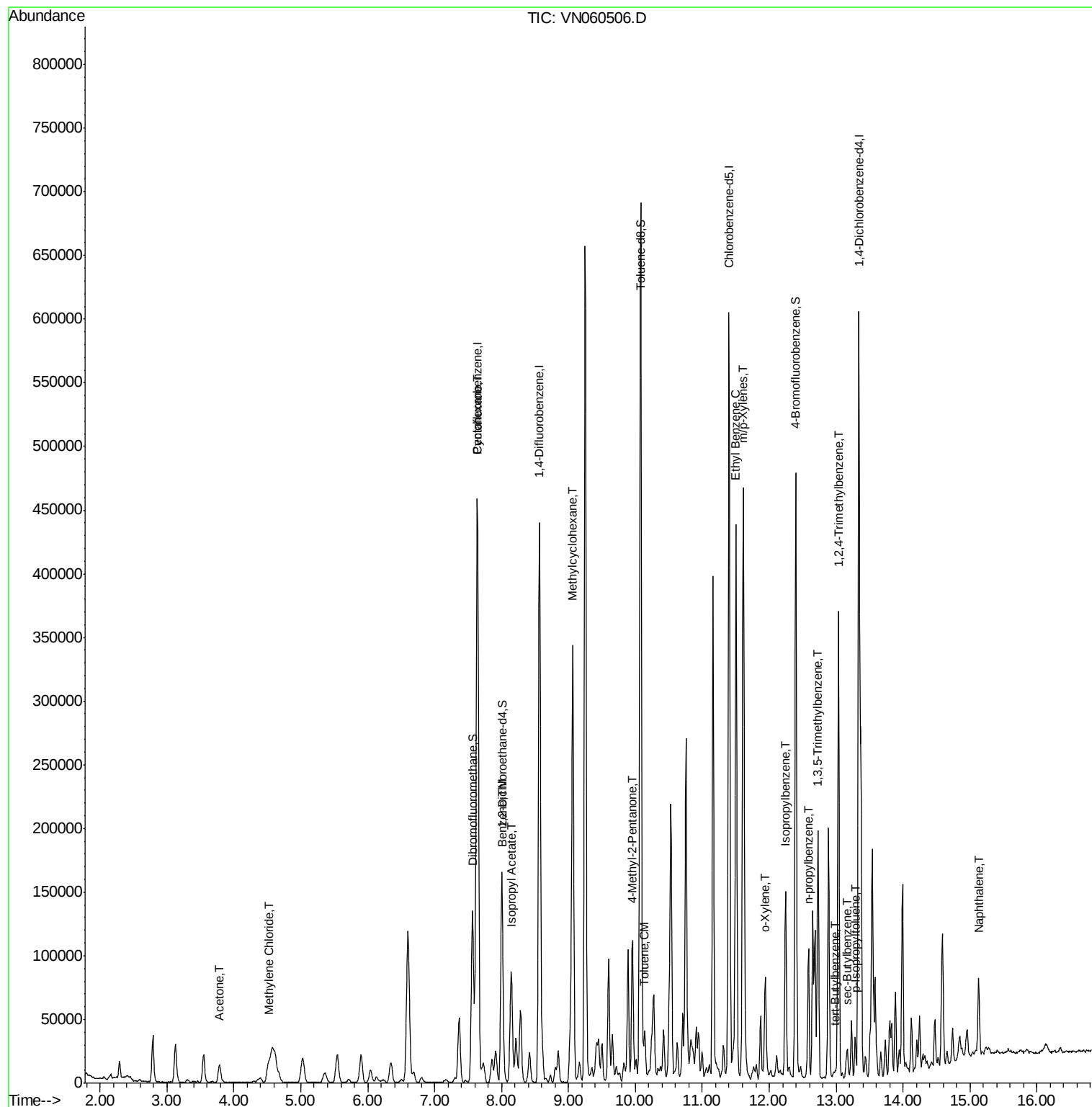
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	21406	23.956	ug/l	91
20) Methylene Chloride	4.52	84	6649	2.709	ug/l #	95
31) Cyclohexane	7.63	56	140884	37.350	ug/l	98
39) Methylcyclohexane	9.07	83	149813	37.559	ug/l	96
40) Benzene	8.02	78	10378	1.054	ug/l	97
43) Isopropyl Acetate	8.14	43	45226	8.065	ug/l #	88
51) 4-Methyl-2-Pentanone	9.97	43	3931	1.236	ug/l	94
52) Toluene	10.14	92	13877	2.244	ug/l	98
67) Ethyl Benzene	11.50	91	308209	25.479	ug/l	100
68) m/p-Xylenes	11.61	106	145683	31.921	ug/l	100
69) o-Xylene	11.94	106	20524	4.716	ug/l	95
73) Isopropylbenzene	12.24	105	96778	8.308	ug/l	99
78) n-propylbenzene	12.59	91	79885	5.850	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	103262	10.528	ug/l	99
83) tert-Butylbenzene	12.99	119	2653	0.312	ug/l	79
84) 1,2,4-Trimethylbenzene	13.04	105	207673	20.978	ug/l	99
85) sec-Butylbenzene	13.17	105	14409	1.267	ug/l	79
86) p-Isopropyltoluene	13.28	119	17071	1.622	ug/l	98
95) Naphthalene	15.13	128	50601	5.160	ug/l	99

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

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QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

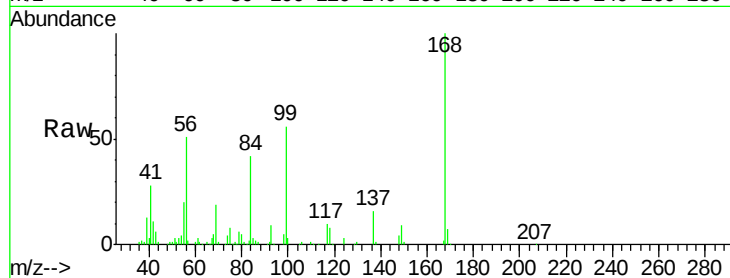
TP-14-DA

Tot Ion:168 Resp: 215666

Ion Ratio Lower Upper

168 100

99 56.0 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

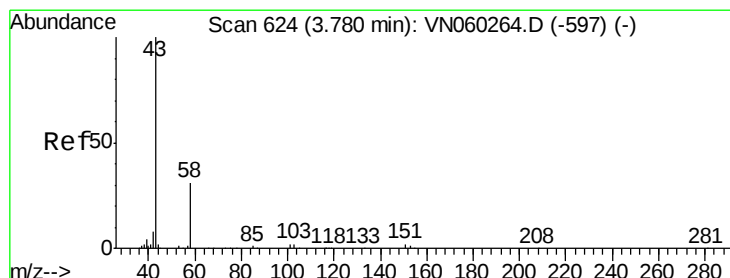
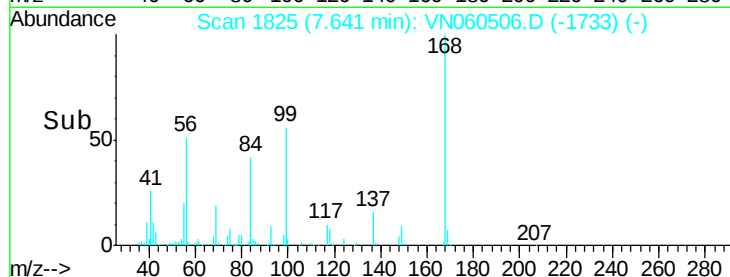
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 23.956 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060506.D

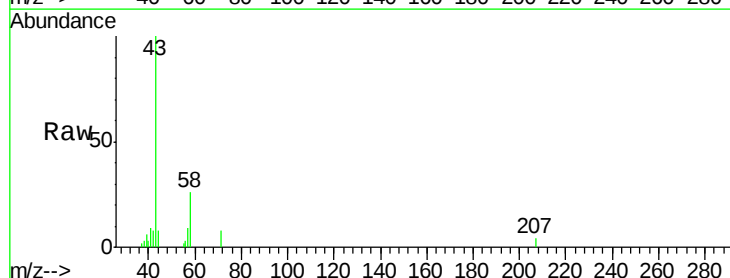
Acq: 13 Mar 2020 16:35

Tgt Ion: 43 Resp: 21406

Ion Ratio Lower Upper

43 100

58 25.5 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

8000

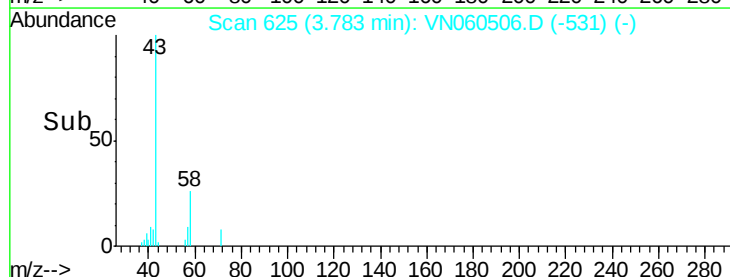
6000

4000

2000

0

Time-->

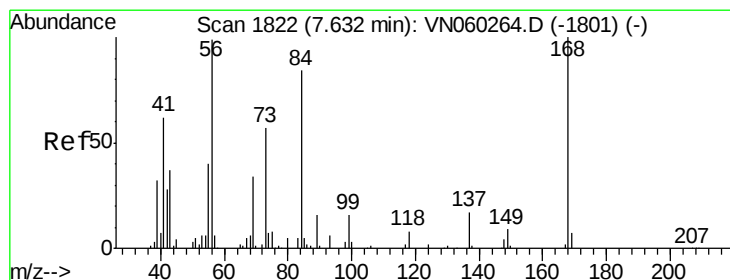
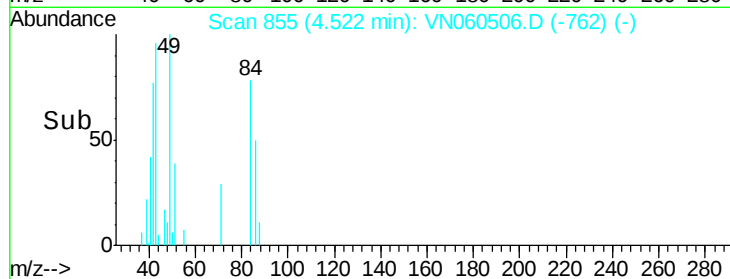
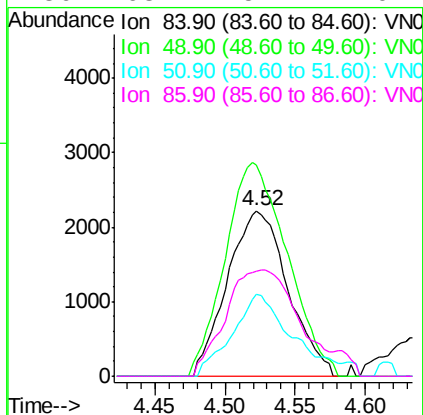
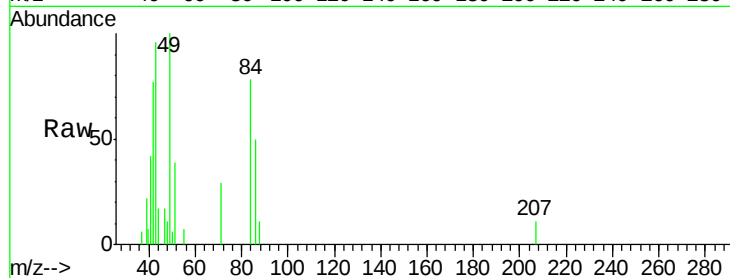




#20
Methylene Chloride
Concen: 2.709 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060506.D
Acq: 13 Mar 2020 16:35

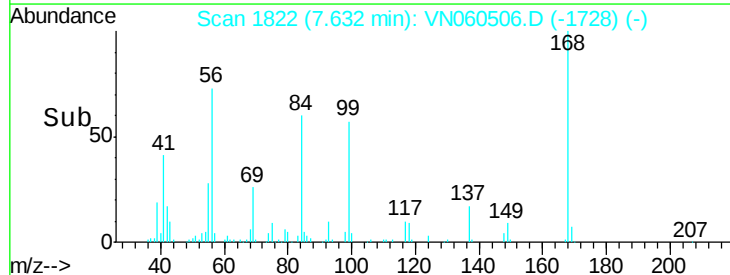
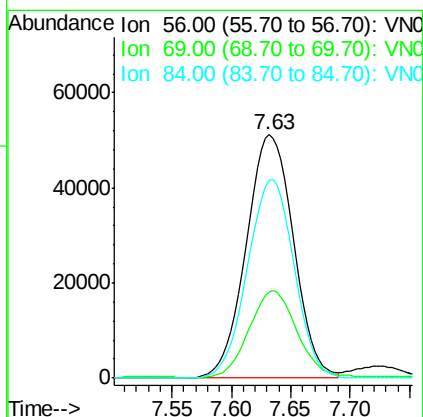
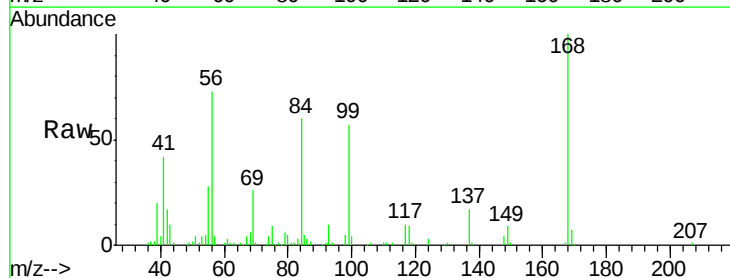
Instrument :
MSVOA_N
ClientSampled :
TP-14-DA

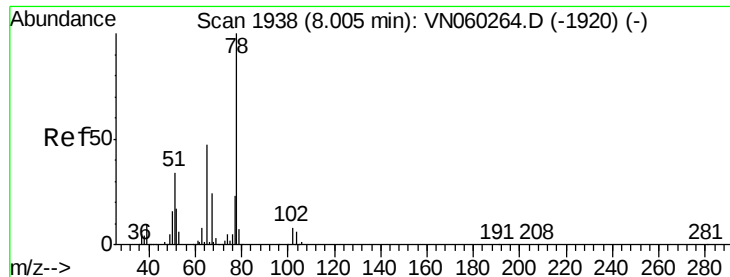
Tot Ion: 84 Resp: 6649
Ion Ratio Lower Upper
84 100
49 127.5 99.3 148.9
51 49.8 30.1 45.1#
86 63.4 51.1 76.7



#31
Cyclohexane
Concen: 37.350 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VN060506.D
Acq: 13 Mar 2020 16:35

Tgt Ion: 56 Resp: 140884
Ion Ratio Lower Upper
56 100
69 35.4 27.2 40.8
84 81.3 66.7 100.1





#33

1,2-Dichloroethane-d4

Concen: 49.523 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

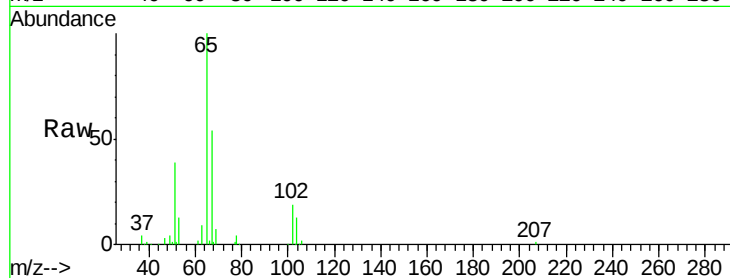
TP-14-DA

Tot Ion: 65 Resp: 137032

Ion Ratio Lower Upper

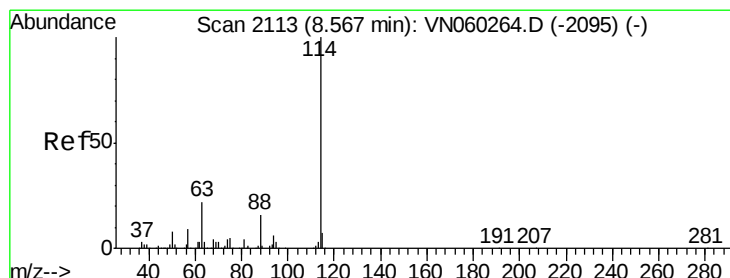
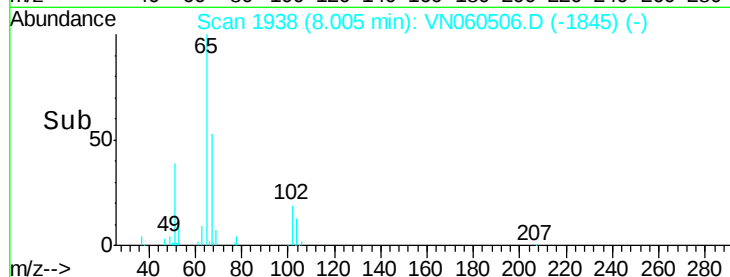
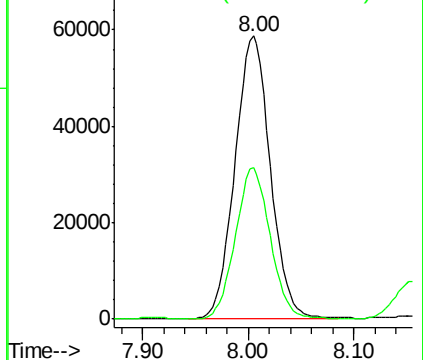
65 100

67 52.8 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060506.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060506.D (-1845) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

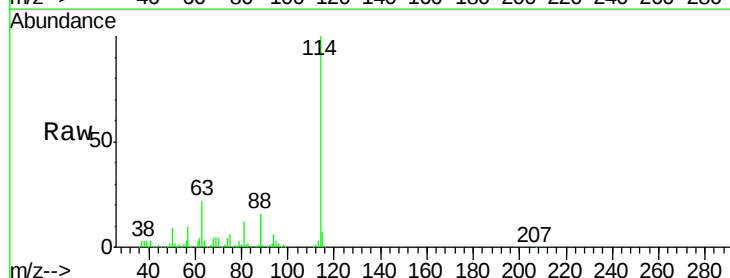
Tgt Ion: 114 Resp: 354971

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.2

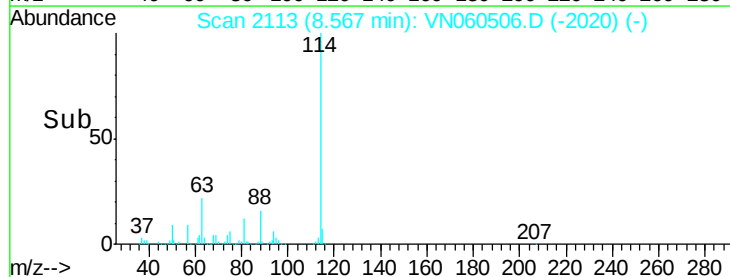
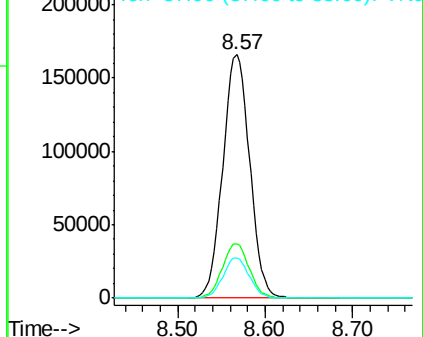
88 16.3 0.0 31.6

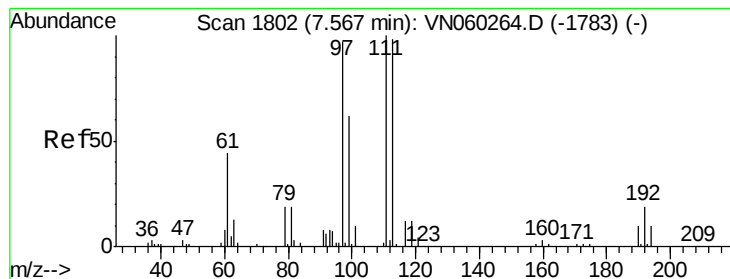


Abundance Ion 113.90 (113.60 to 114.60): VN060506.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN060506.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN060506.D (-2020) (-)





#35

Dibromofluoromethane

Concen: 63.368 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampled :

TP-14-DA

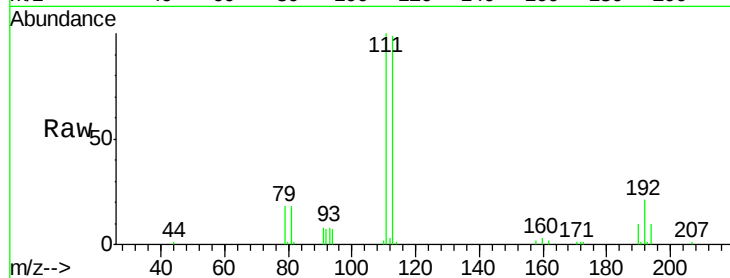
Tot Ion:113 Resp: 104409

Ion Ratio Lower Upper

113 100

111 102.8 82.4 123.6

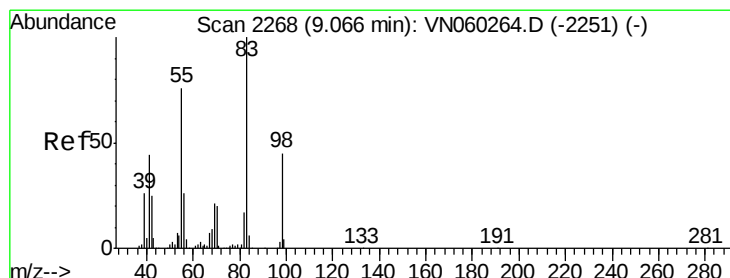
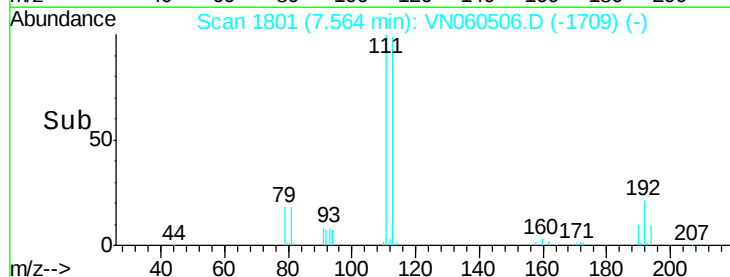
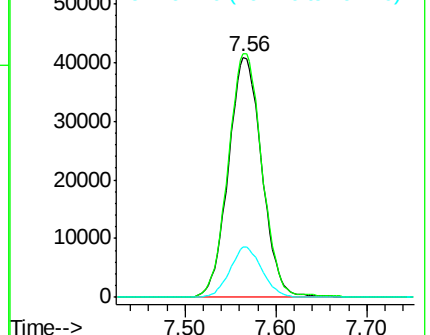
192 20.0 16.2 24.2



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



#39

Methylcyclohexane

Concen: 37.559 ug/l

RT: 9.07 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

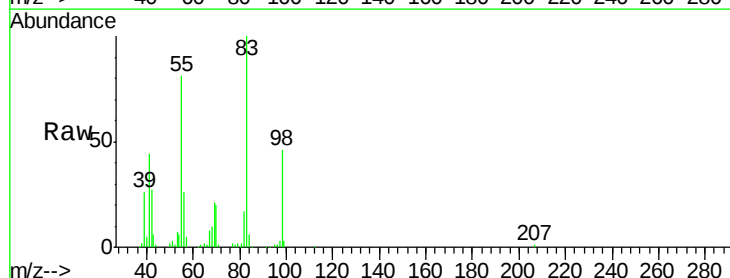
Tgt Ion: 83 Resp: 149813

Ion Ratio Lower Upper

83 100

55 80.4 61.0 91.4

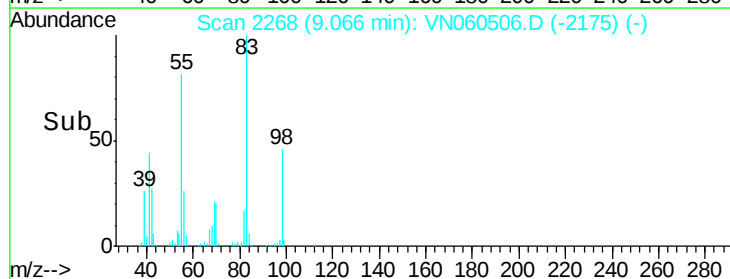
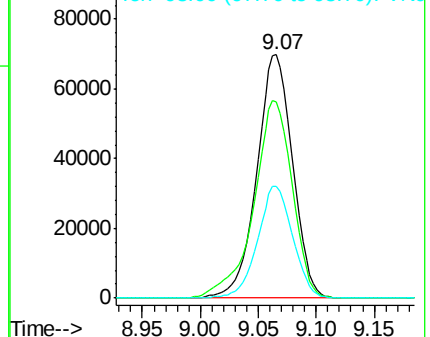
98 46.0 36.1 54.1

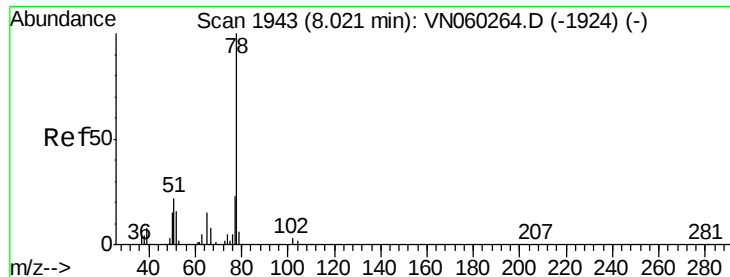


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 1.054 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

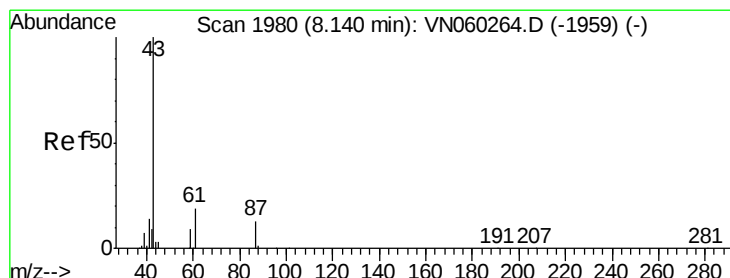
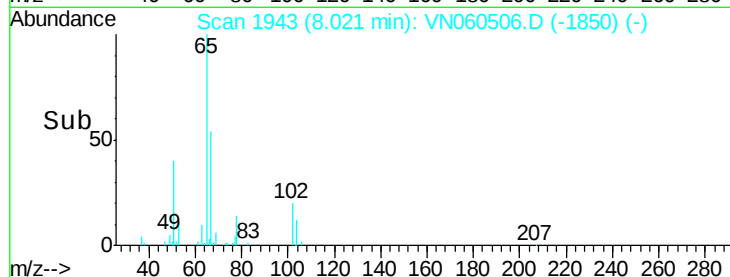
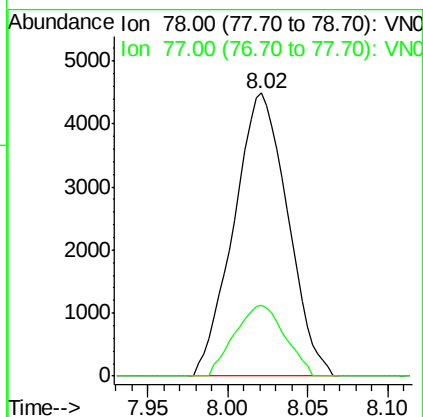
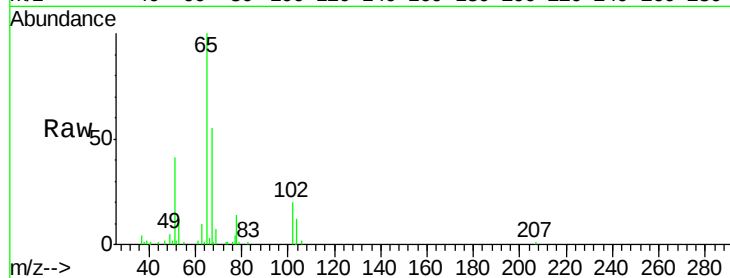
TP-14-DA

Tot Ion: 78 Resp: 10378

Ion Ratio Lower Upper

78 100

77 24.9 18.8 28.2



#43

Isopropyl Acetate

Concen: 8.065 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

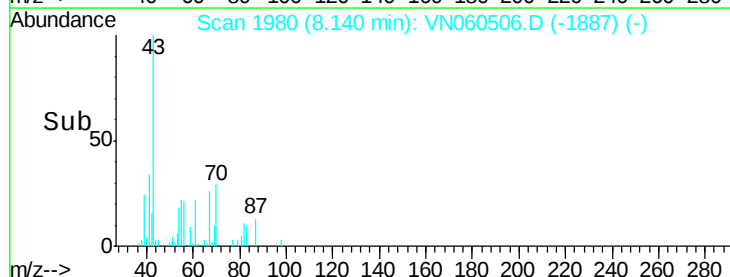
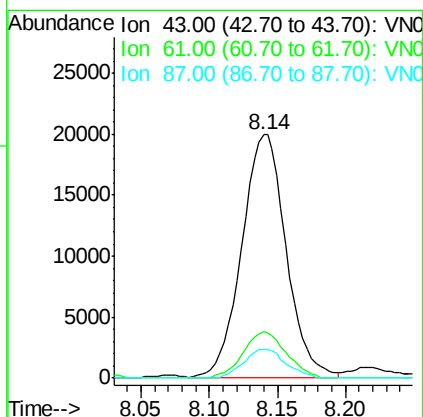
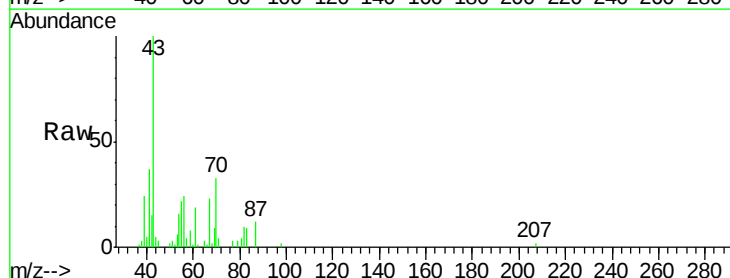
Tgt Ion: 43 Resp: 45226

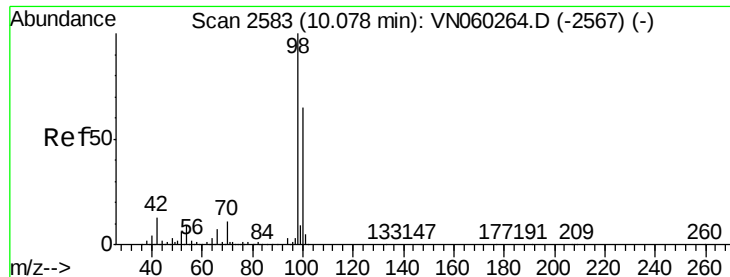
Ion Ratio Lower Upper

43 100

61 18.3 20.9 31.3#

87 11.1 10.6 16.0





#50

Toluene-d8

Concen: 52.851 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampled :

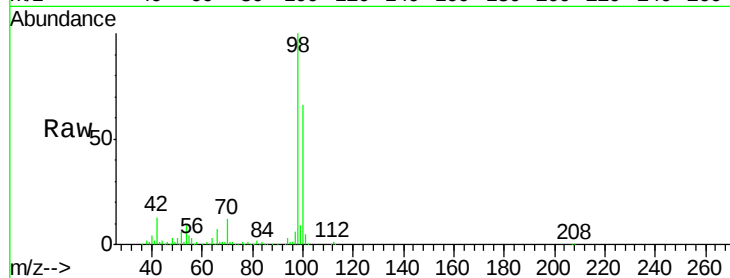
TP-14-DA

Tot Ion: 98 Resp: 440729

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060264.D (-2567) (-)

10.08

250000

200000

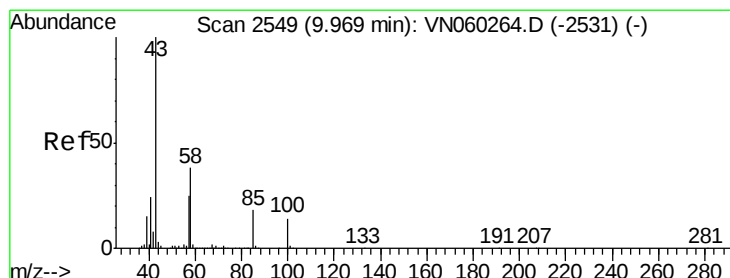
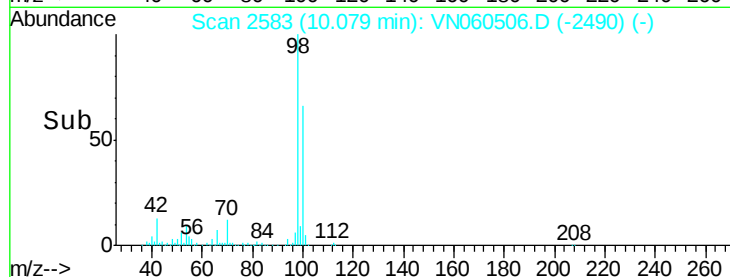
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.236 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060506.D

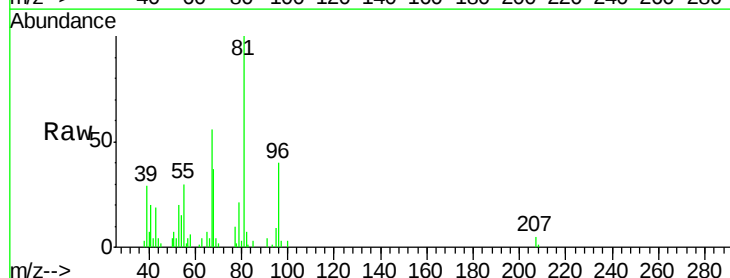
Acq: 13 Mar 2020 16:35

Tgt Ion: 43 Resp: 3931

Ion Ratio Lower Upper

43 100

58 35.1 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-2531) (-)

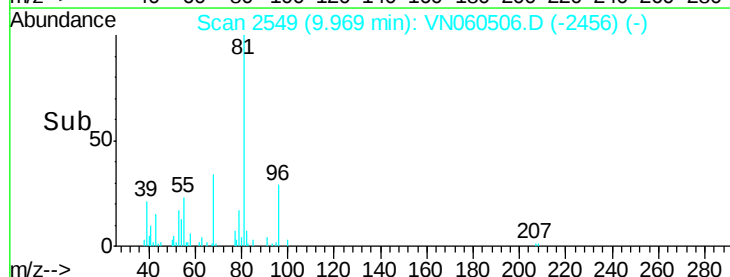
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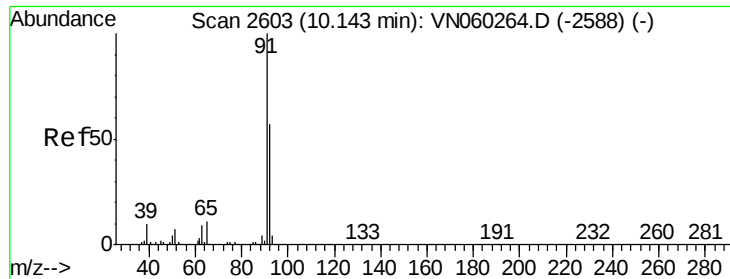
10000

5000

0

Time-->





#52

Toluene

Concen: 2.244 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampled :

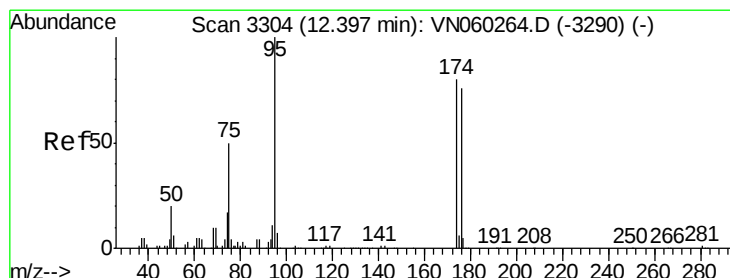
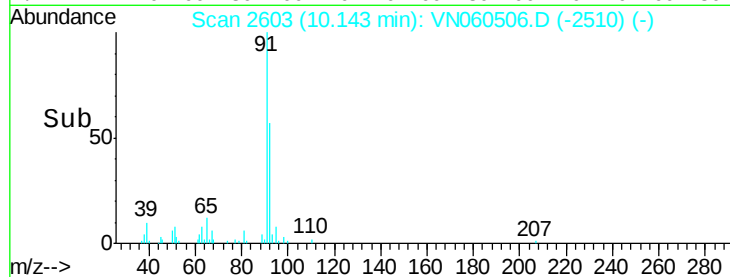
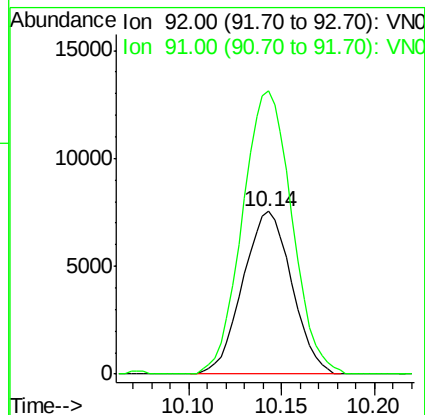
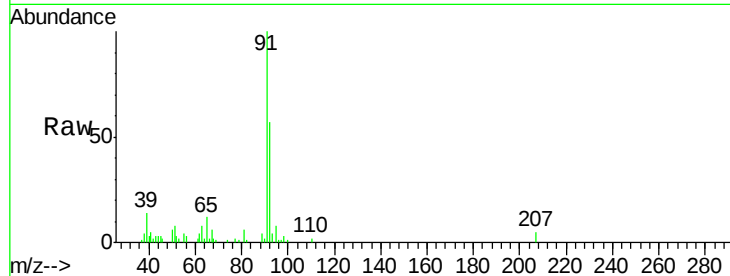
TP-14-DA

Tot Ion: 92 Resp: 13877

Ion Ratio Lower Upper

92 100

91 176.0 138.1 207.1



#62

4-Bromofluorobenzene

Concen: 52.237 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

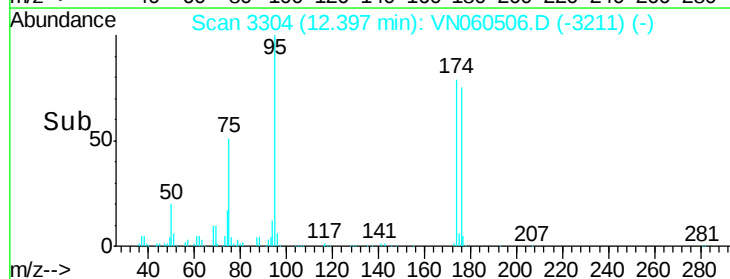
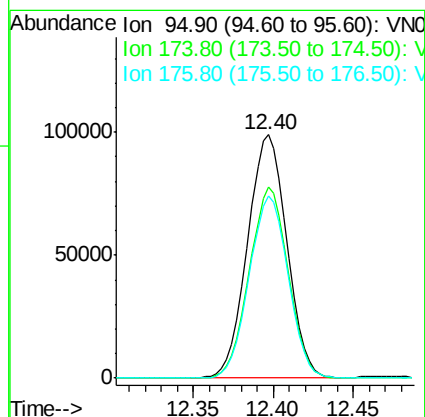
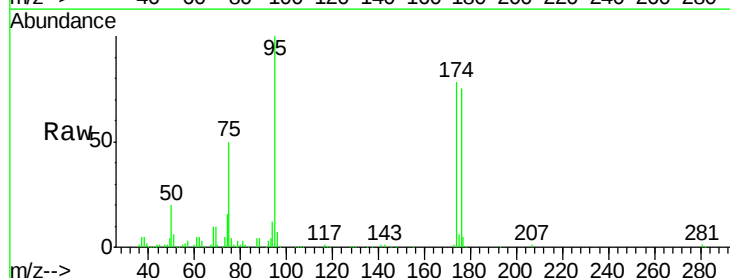
Tgt Ion: 95 Resp: 165126

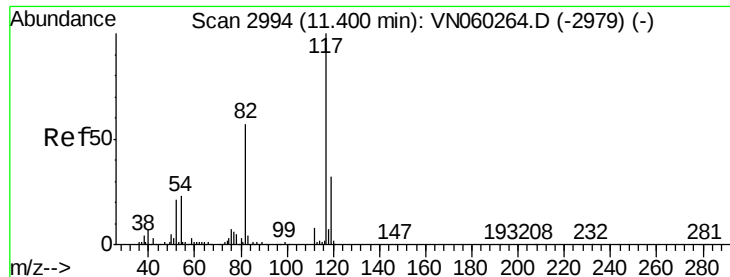
Ion Ratio Lower Upper

95 100

174 78.2 0.0 159.2

176 75.0 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

TP-14-DA

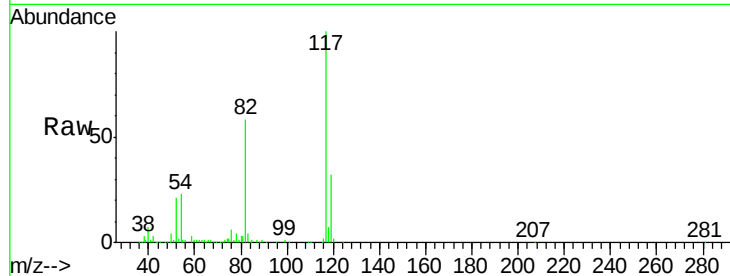
Tot Ion:117 Resp: 328957

Ion Ratio Lower Upper

117 100

82 58.1 45.8 68.6

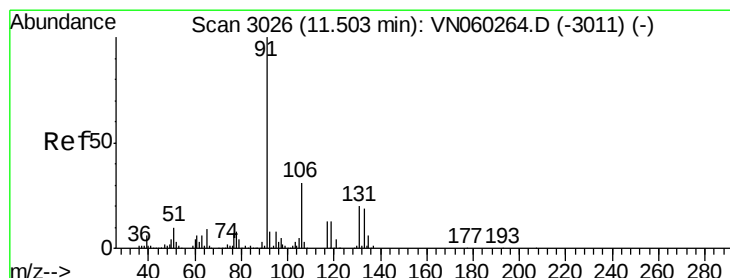
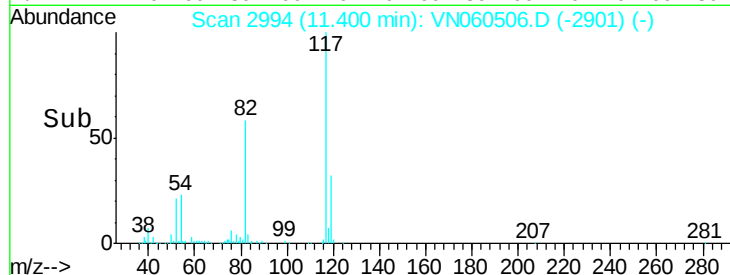
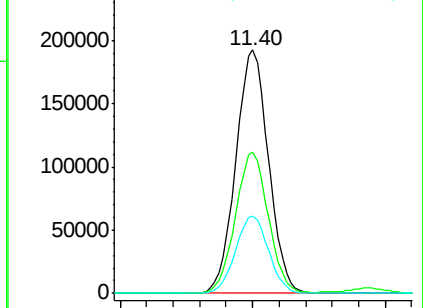
119 32.0 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 25.479 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN060506.D

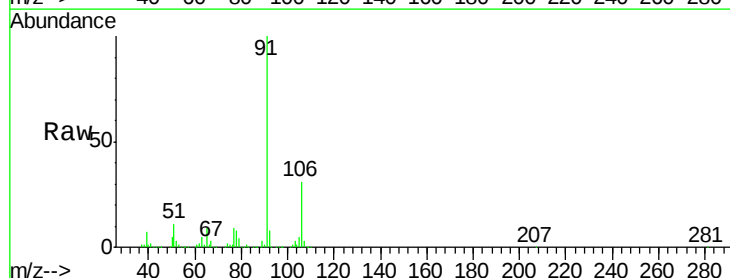
Acq: 13 Mar 2020 16:35

Tgt Ion: 91 Resp: 308209

Ion Ratio Lower Upper

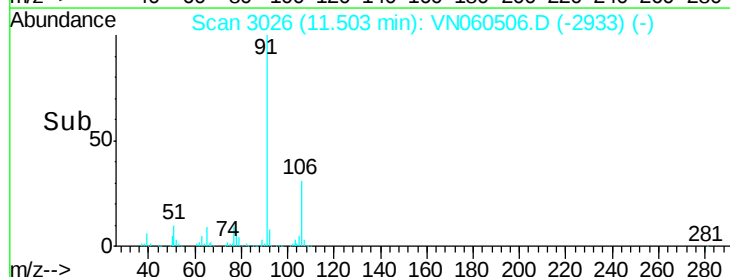
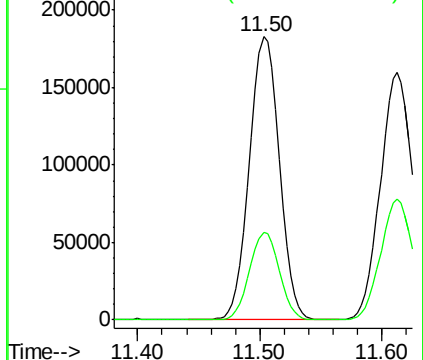
91 100

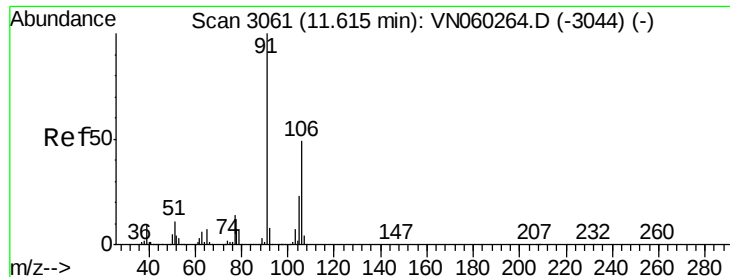
106 30.9 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 31.921 ug/l

RT: 11.61 min Scan# 3060

Delta R.T. -0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

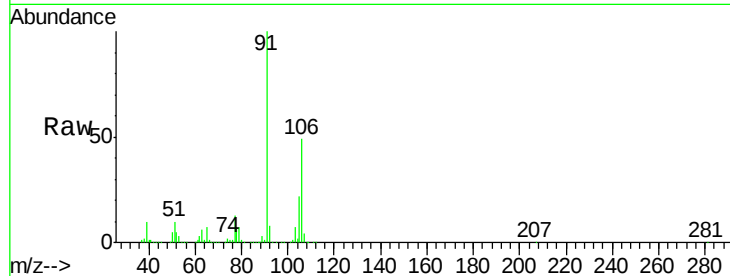
TP-14-DA

Tot Ion:106 Resp: 145683

Ion Ratio Lower Upper

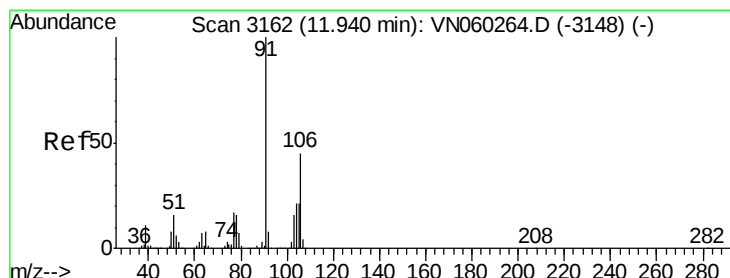
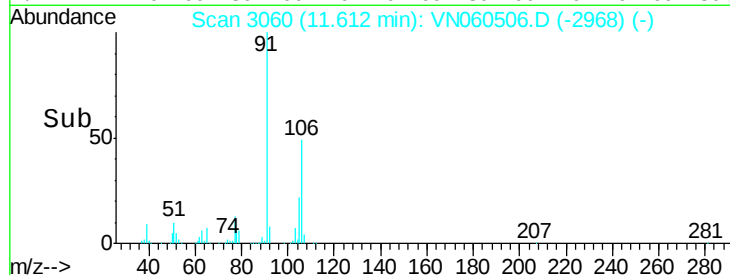
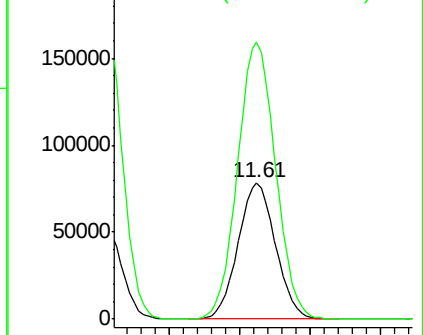
106 100

91 205.2 164.5 246.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 4.716 ug/l

RT: 11.94 min Scan# 3162

Delta R.T. 0.00 min

Lab File: VN060506.D

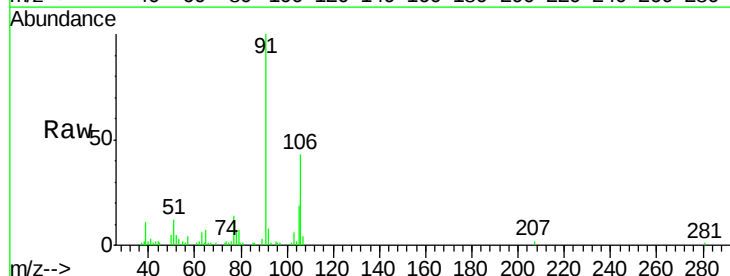
Acq: 13 Mar 2020 16:35

Tgt Ion:106 Resp: 20524

Ion Ratio Lower Upper

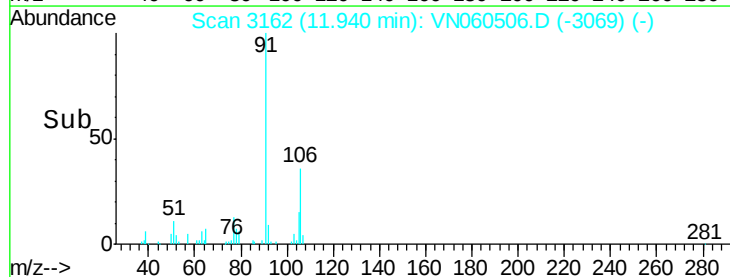
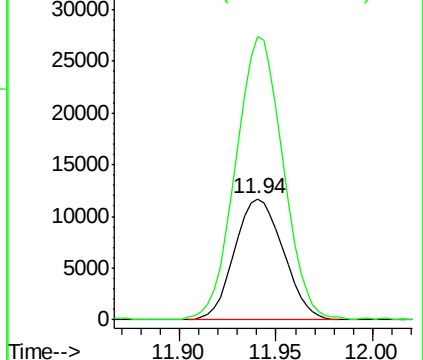
106 100

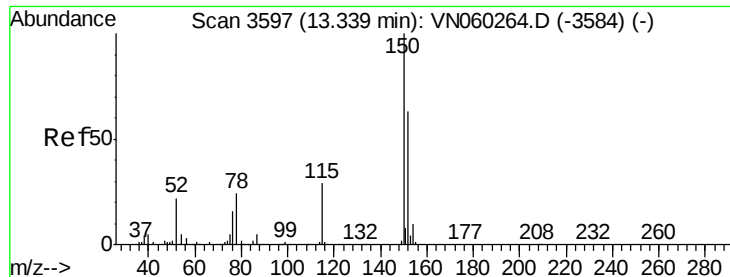
91 227.3 109.5 328.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

TP-14-DA

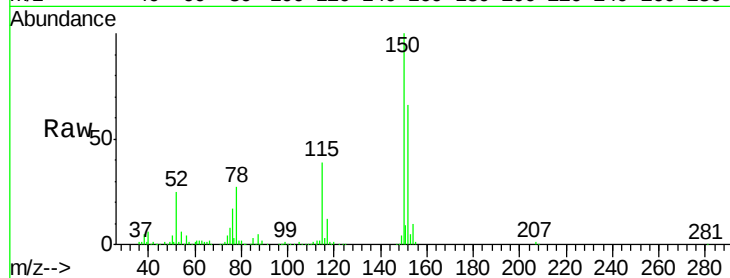
Tot Ion:152 Resp: 157169

Ion Ratio Lower Upper

152 100

115 62.8 30.0 90.0

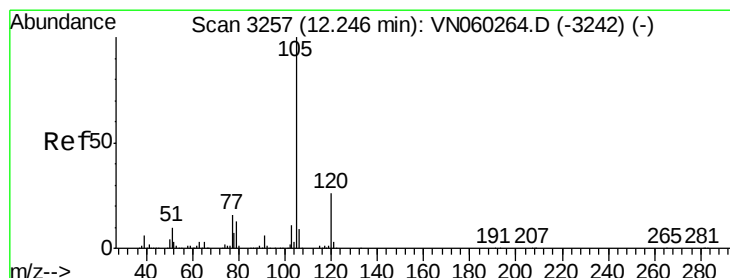
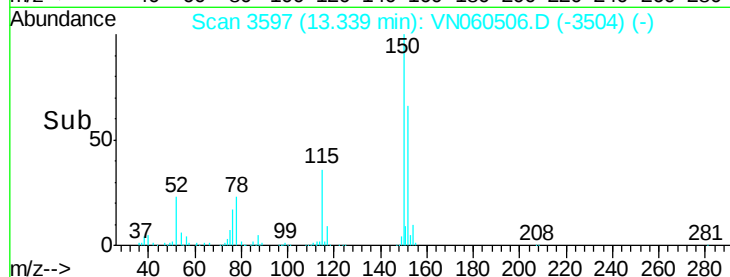
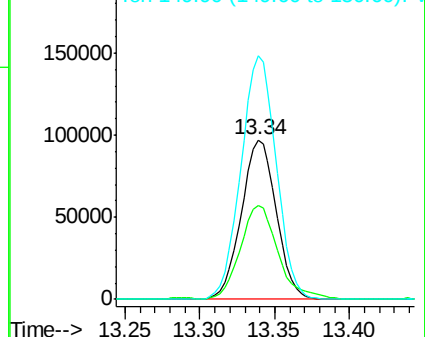
150 154.9 0.0 349.6



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



#73

Isopropylbenzene

Concen: 8.308 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN060506.D

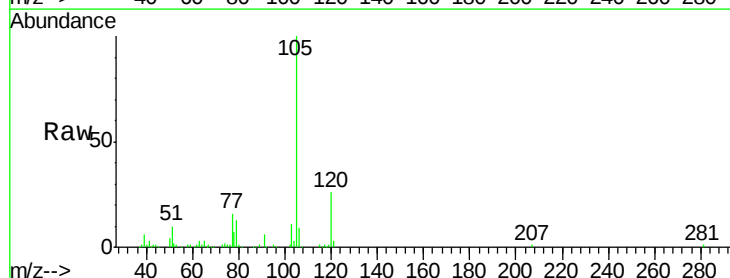
Acq: 13 Mar 2020 16:35

Tgt Ion:105 Resp: 96778

Ion Ratio Lower Upper

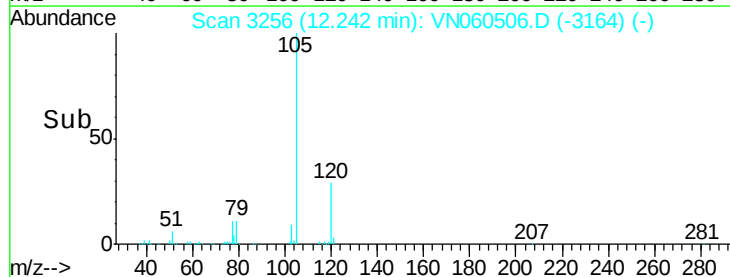
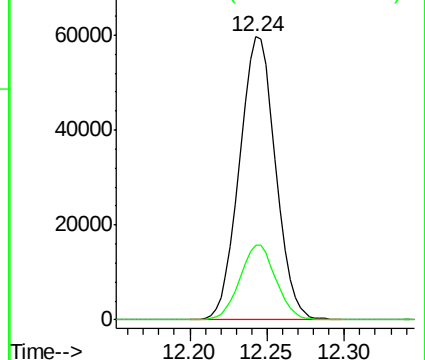
105 100

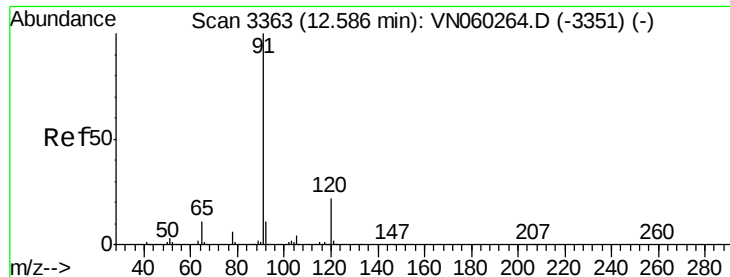
120 26.4 13.0 38.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 5.850 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

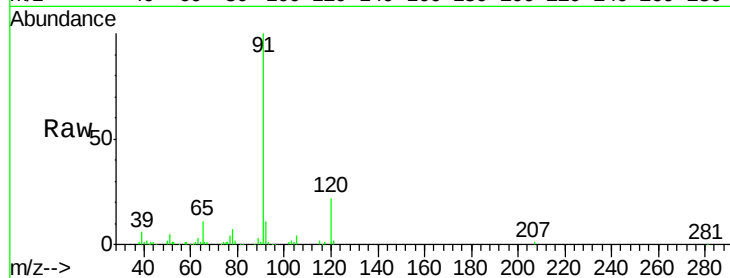
TP-14-DA

Tot Ion: 91 Resp: 79885

Ion Ratio Lower Upper

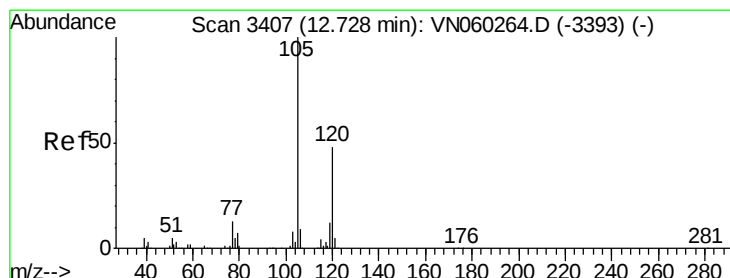
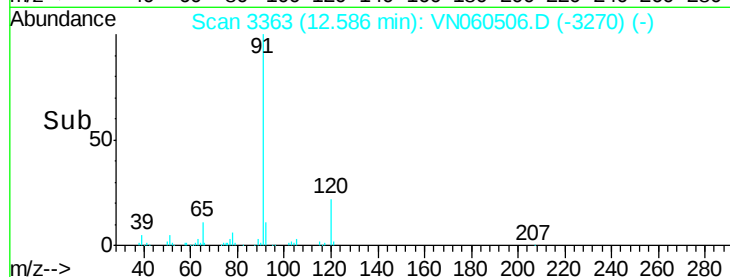
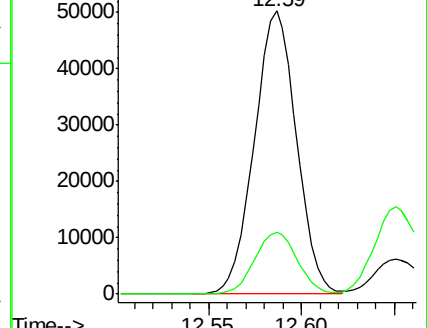
91 100

120 22.2 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN060506.D (-3351) (-)

Ion 120.00 (119.70 to 120.70): VN060506.D (-3351) (-)



#80

1,3,5-Trimethylbenzene

Concen: 10.528 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060506.D

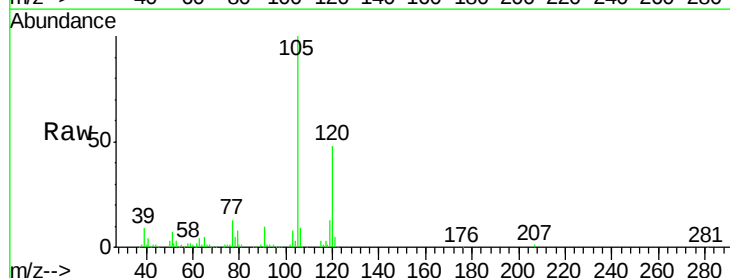
Acq: 13 Mar 2020 16:35

Tgt Ion: 105 Resp: 103262

Ion Ratio Lower Upper

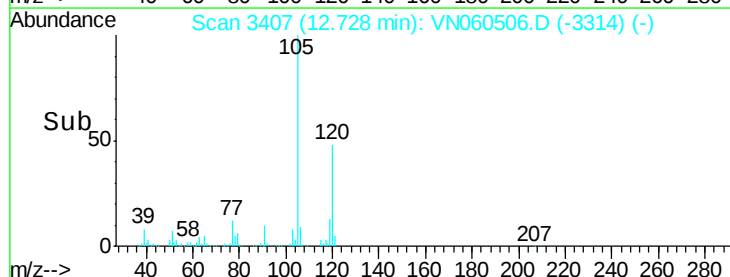
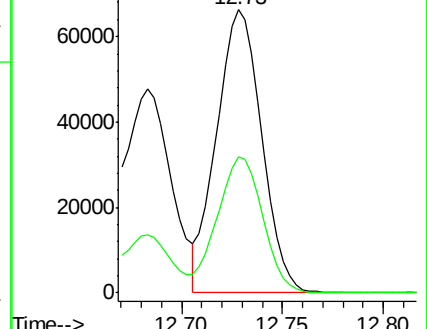
105 100

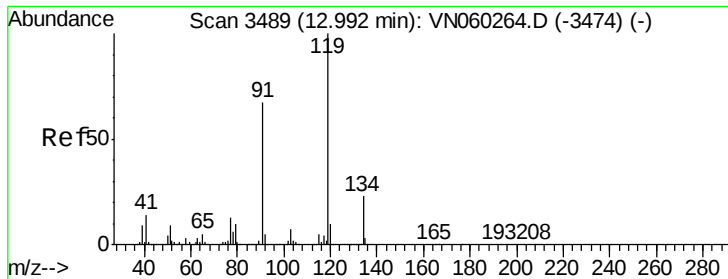
120 49.0 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060506.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN060506.D (-3393) (-)

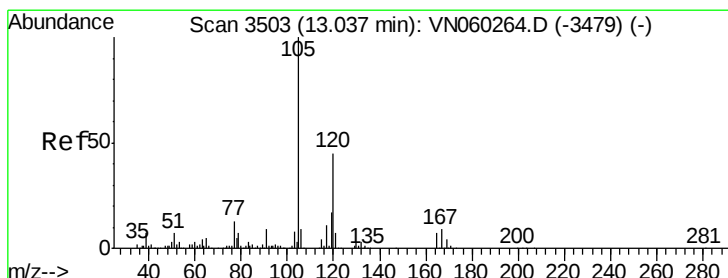
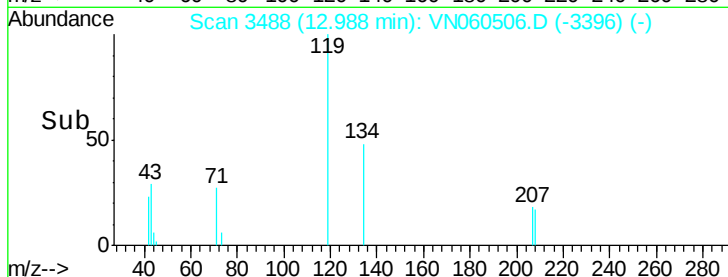
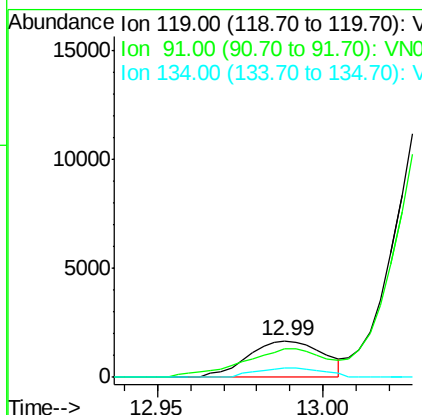
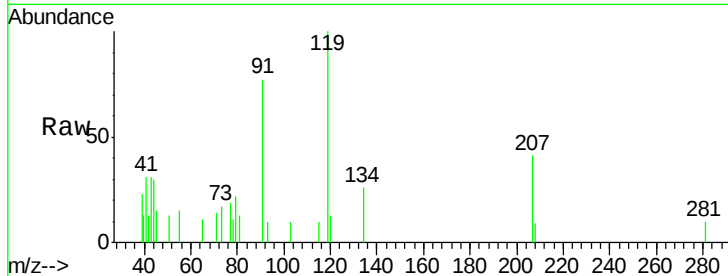




#83
tert-Butylbenzene
Concen: 0.312 ug/l
RT: 12.99 min Scan# 3488
Delta R.T. -0.00 min
Lab File: VN060506.D
Acq: 13 Mar 2020 16:35

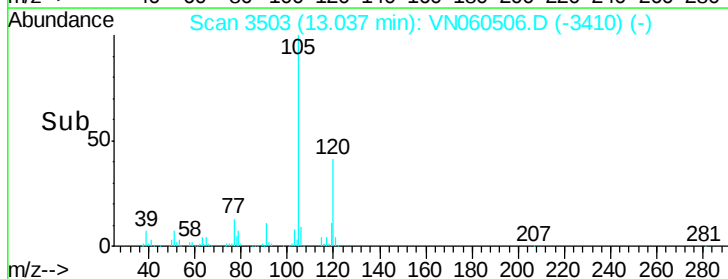
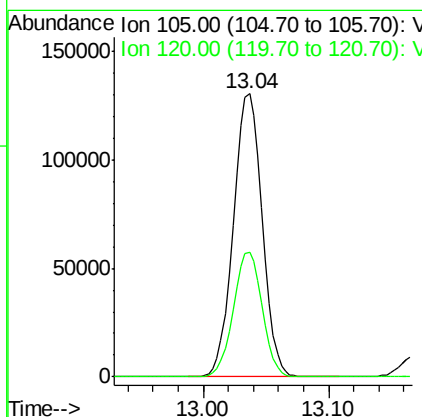
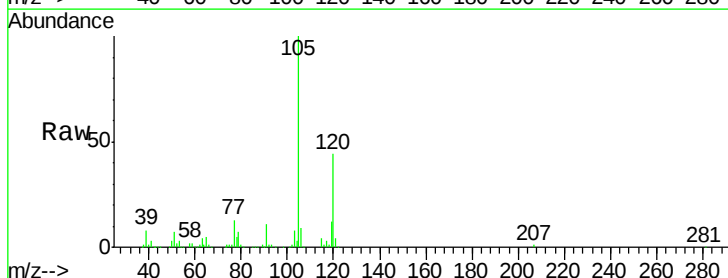
Instrument :
MSVOA_N
ClientSampled :
TP-14-DA

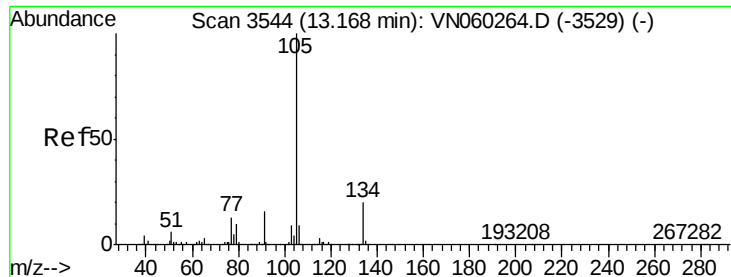
Tot Ion:119 Resp: 2653
Ion Ratio Lower Upper
119 100
91 87.3 33.1 99.2
134 22.2 12.4 37.0



#84
1,2,4-Trimethylbenzene
Concen: 20.978 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN060506.D
Acq: 13 Mar 2020 16:35

Tgt Ion:105 Resp: 207673
Ion Ratio Lower Upper
105 100
120 44.1 22.3 66.9





#85

sec-Butylbenzene

Concen: 1.267 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampled :

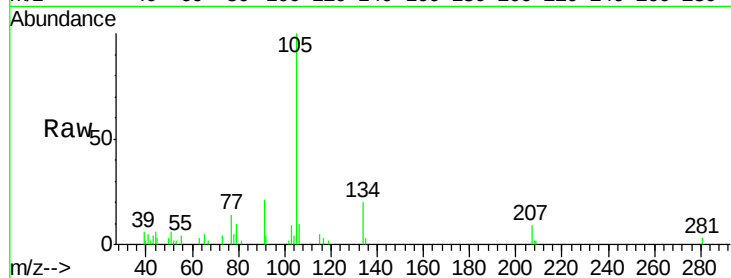
TP-14-DA

Tot Ion:105 Resp: 14409

Ion Ratio Lower Upper

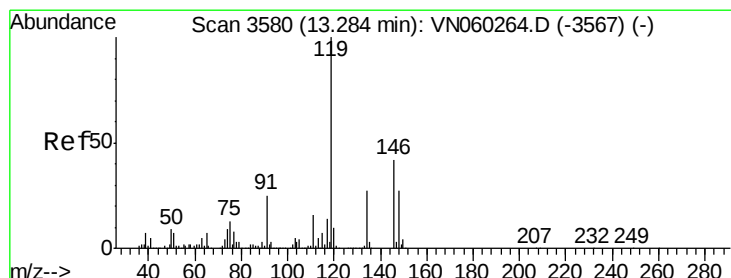
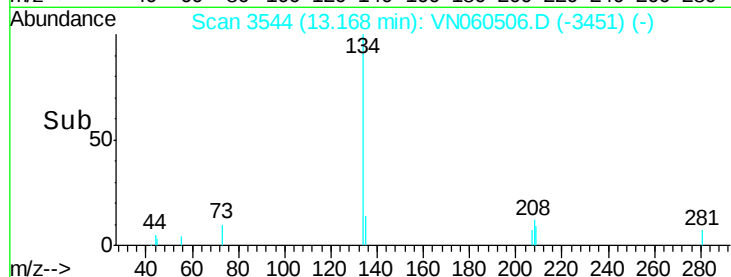
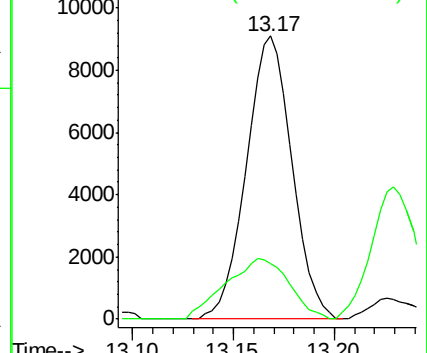
105 100

134 29.4 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.622 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN060506.D

Acq: 13 Mar 2020 16:35

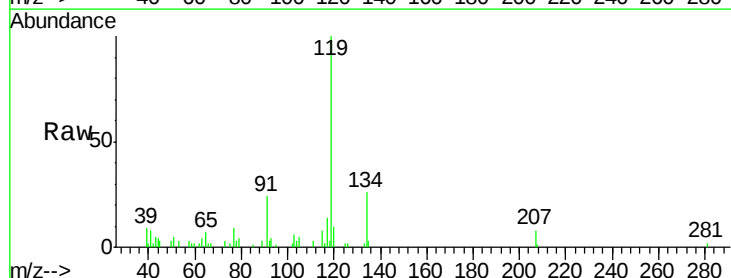
Tgt Ion:119 Resp: 17071

Ion Ratio Lower Upper

119 100

134 26.8 13.2 39.6

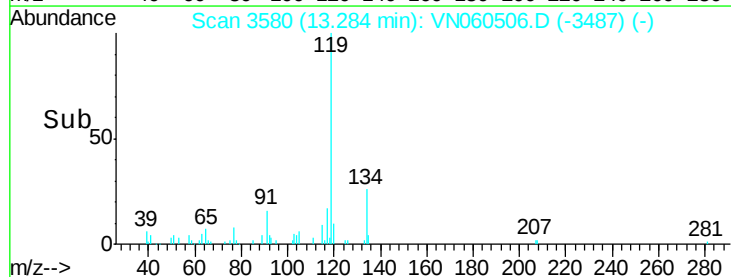
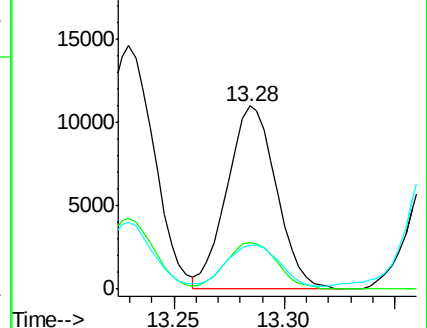
91 22.9 12.2 36.6

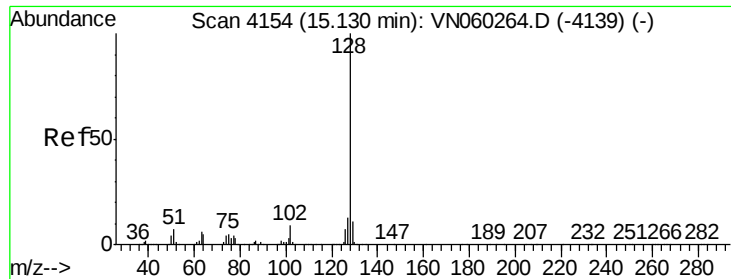


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

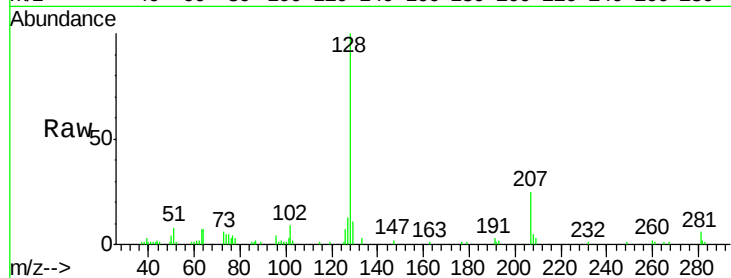




#95
Naphthalene
Concen: 5.160 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060506.D
Acq: 13 Mar 2020 16:35

Instrument :
MSVOA_N
ClientSampleId :
TP-14-DA

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.4	8.6	13.0



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

