

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055946.D
 Acq On : 1 Jun 2019 4:06
 Operator : JC/SP
 Sample : K3125-24 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 13904

Quant Time: Jun 01 04:35:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	366022	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	549692	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	524114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	236335	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	177409	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	
35) Dibromofluoromethane	7.59	113	154273	44.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.78%	
50) Toluene-d8	10.09	98	665697	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	
62) 4-Bromofluorobenzene	12.40	95	242089	52.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.92%	

Target Compounds

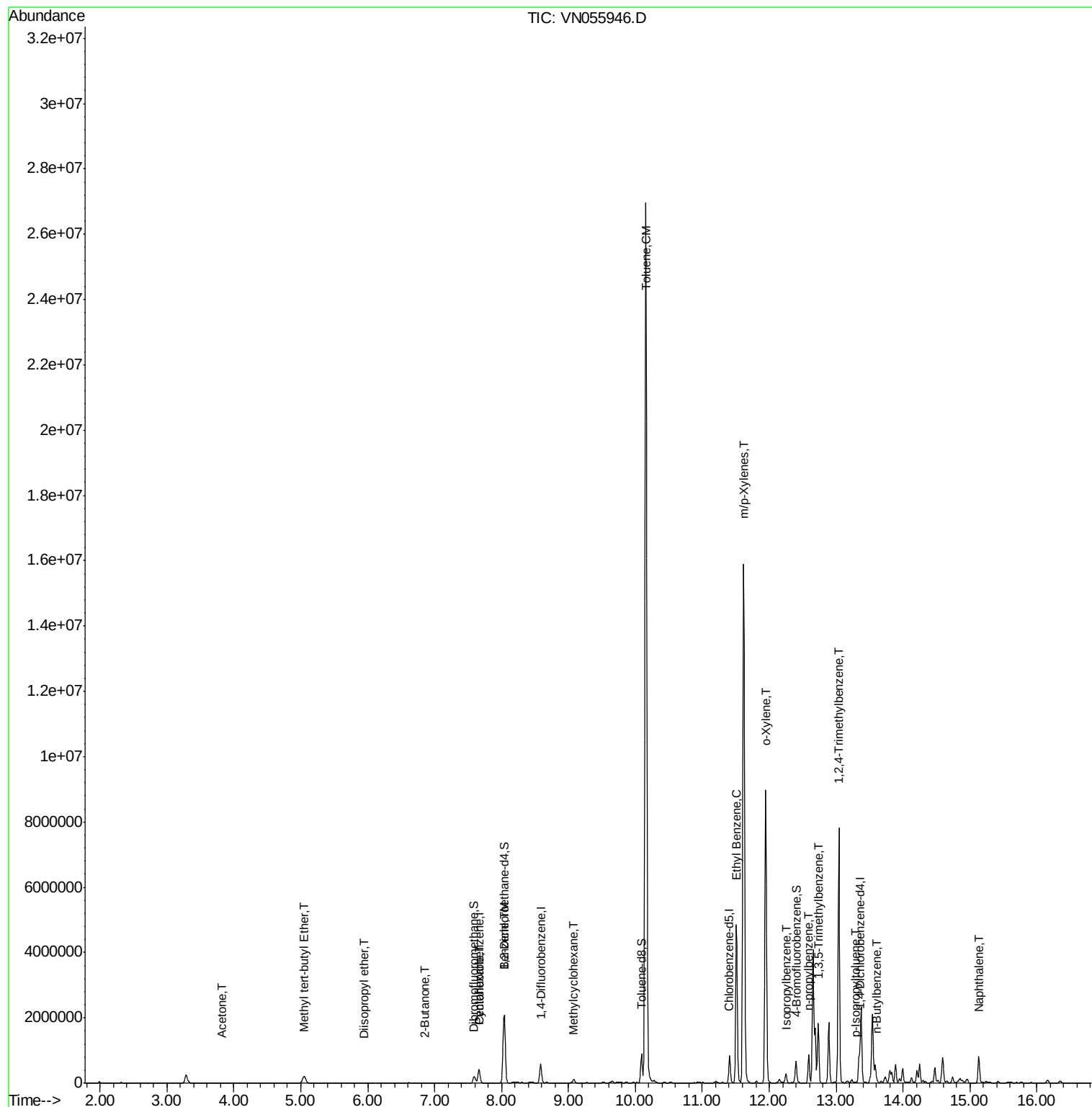
						Qvalue
16) Acetone	3.82	43	19649	11.825	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	358329	34.514	ug/l	99
22) Diisopropyl ether	5.95	45	3792	0.365	ug/l #	92
25) 2-Butanone	6.85	43	9592	4.133	ug/l	99
31) Cyclohexane	7.65	56	21544	3.797	ug/l #	61
39) Methylcyclohexane	9.08	83	46802	7.890	ug/l	100
40) Benzene	8.04	78	2166519	150.065	ug/l	100
52) Toluene	10.16	92	12795754	1409.232	ug/l #	1
67) Ethyl Benzene	11.51	91	3754067	199.520	ug/l	99
68) m/p-Xylenes	11.62	106	5458313	767.354	ug/l	99
69) o-Xylene	11.95	106	2628364	372.437	ug/l	100
73) Isopropylbenzene	12.25	105	187662	8.974	ug/l	100
78) n-propylbenzene	12.59	91	707286	34.433	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1031875	74.157	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	4565225	336.562	ug/l	99
86) p-Isopropyltoluene	13.29	119	17956	1.094	ug/l #	79
89) n-Butylbenzene	13.61	91	32978	2.622	ug/l #	58
95) Naphthalene	15.13	128	718049	65.680	ug/l	100

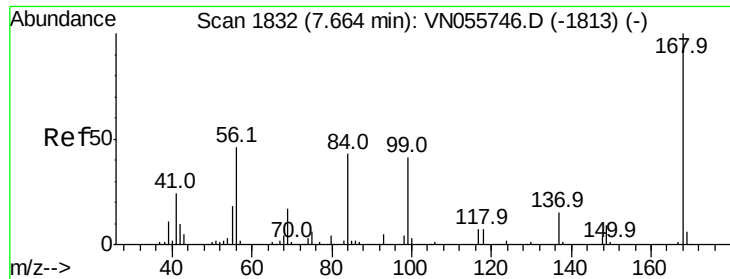
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

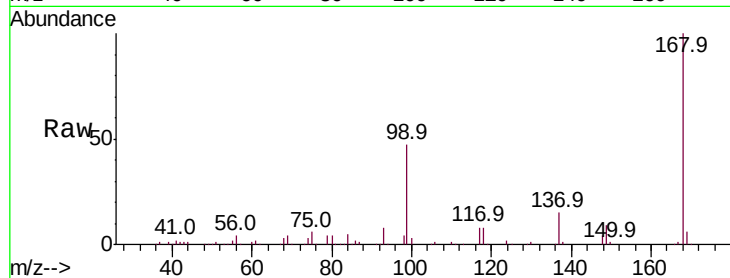
13904

Tot Ion:168 Resp: 366022

Ion Ratio Lower Upper

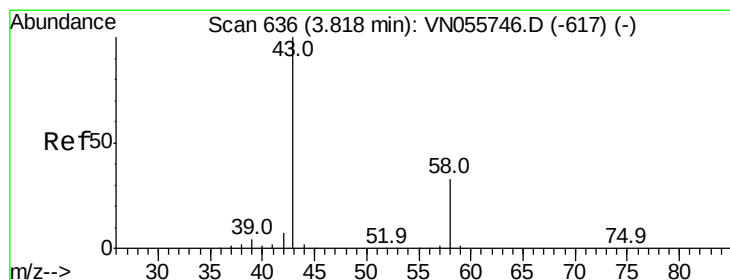
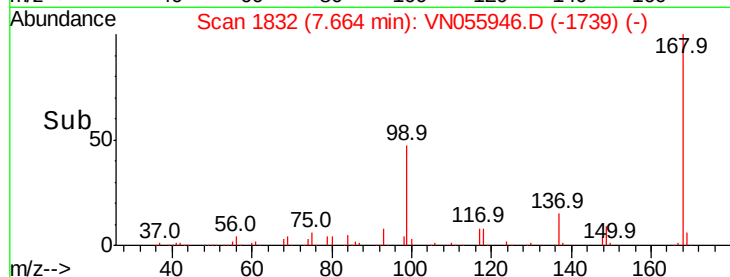
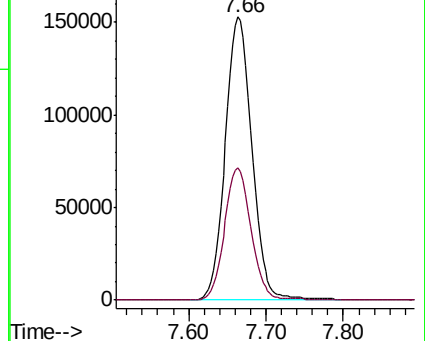
168 100

99 46.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 11.825 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055946.D

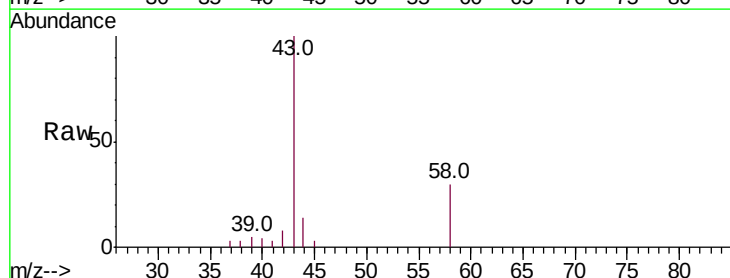
Acq: 1 Jun 2019 4:06

Tgt Ion: 43 Resp: 19649

Ion Ratio Lower Upper

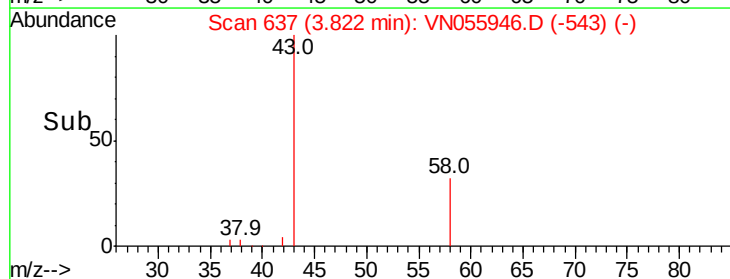
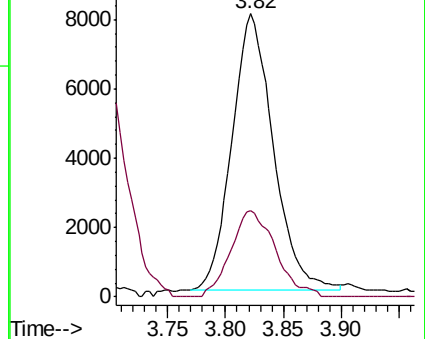
43 100

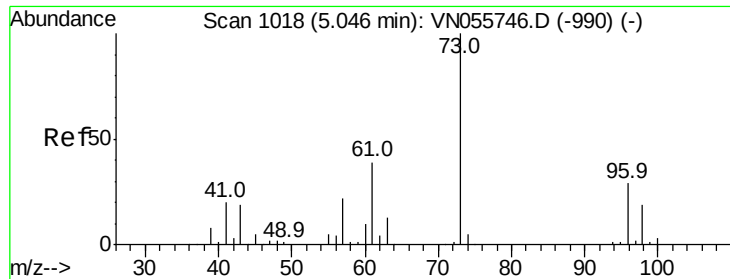
58 31.3 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#19

Methyl tert-butyl Ether

Concen: 34.514 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

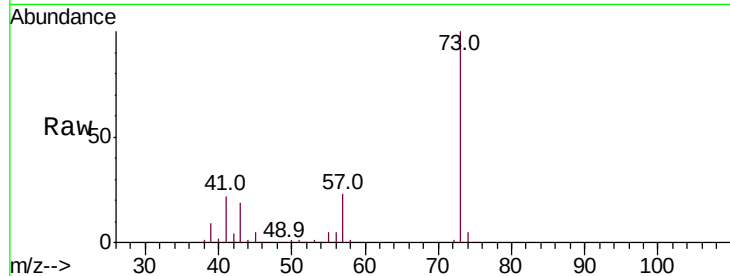
13904

Tot Ion: 73 Resp: 358329

Ion Ratio Lower Upper

73 100

57 22.6 17.8 26.8



Abundance Ion 73.00 (72.70 to 73.70): VNC

Ion 57.00 (56.70 to 57.70): VNC

5.05

100000

80000

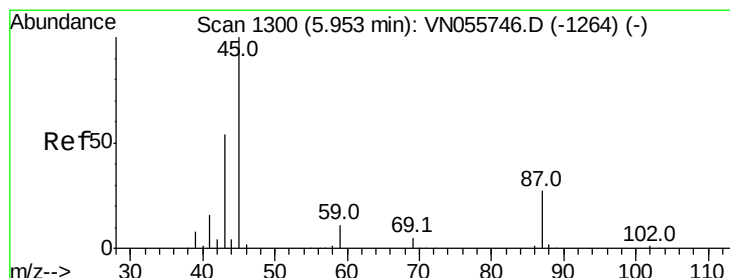
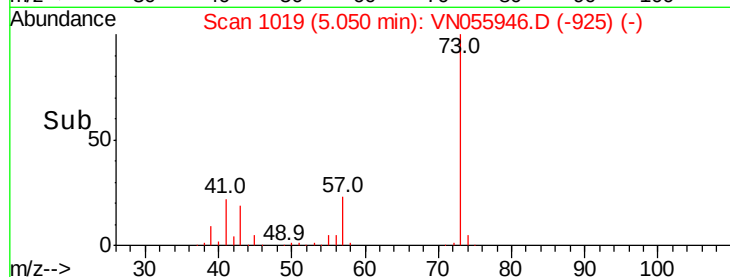
60000

40000

20000

0

Time-->



#22

Diisopropyl ether

Concen: 0.365 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

Tgt Ion: 45 Resp: 3792

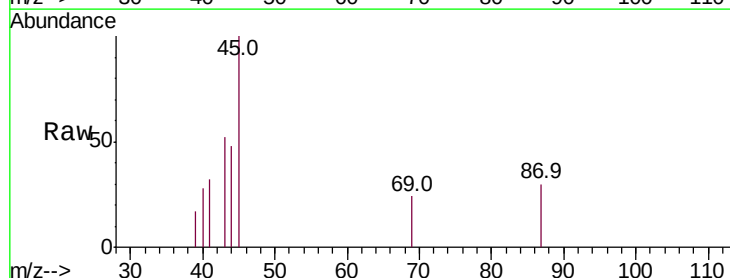
Ion Ratio Lower Upper

45 100

43 52.2 45.0 67.6

87 30.2 22.2 33.4

59 0.0 9.1 13.7#



Abundance Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC

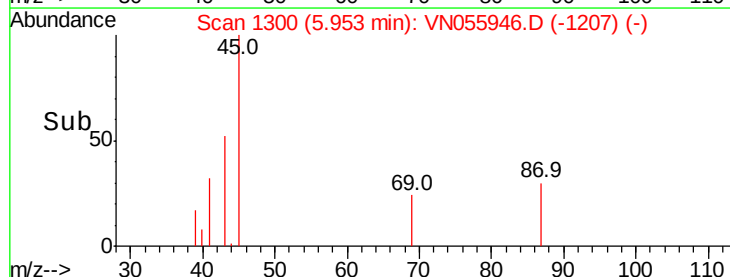
1500

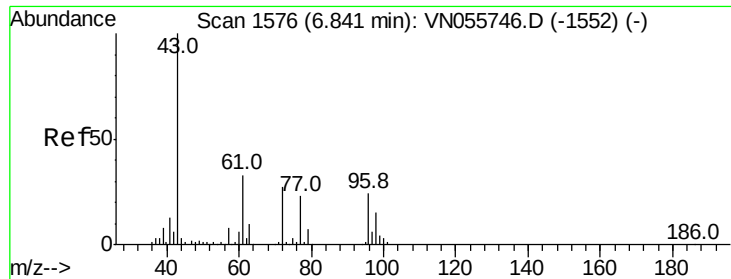
1000

500

0

Time-->

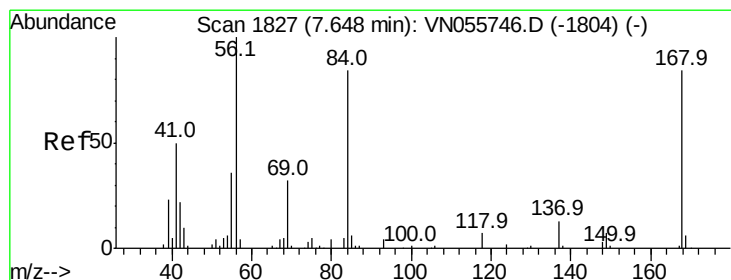
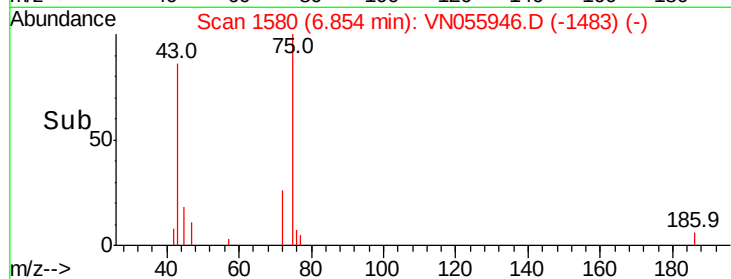
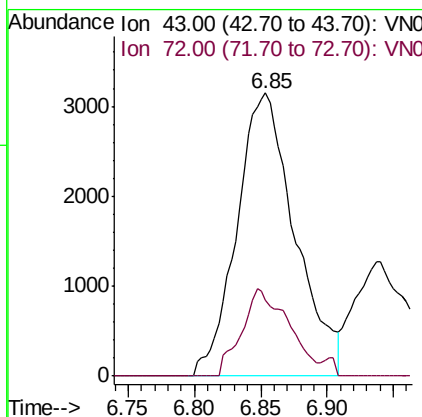
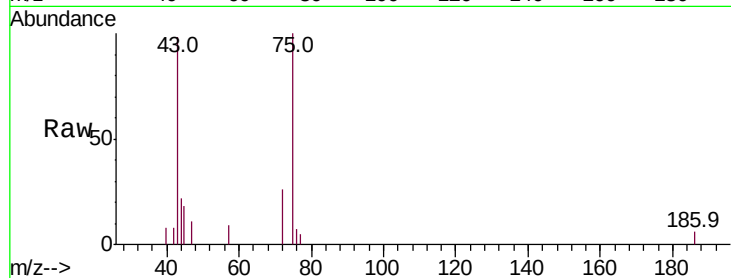




#25
2-Butanone
Concen: 4.133 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

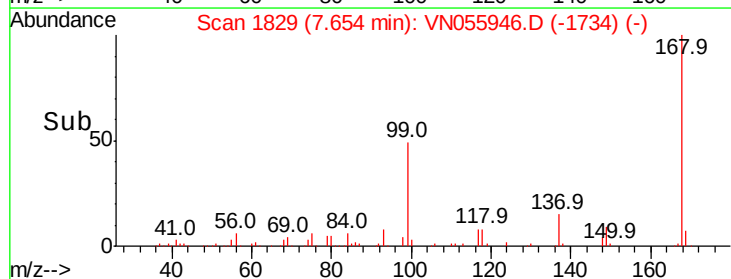
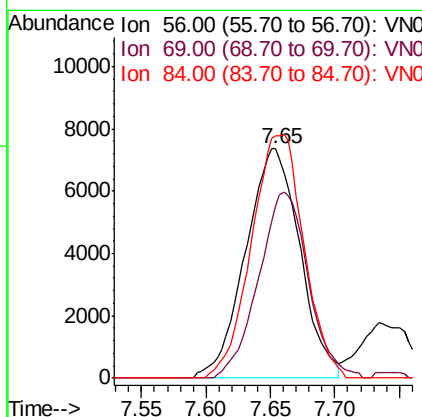
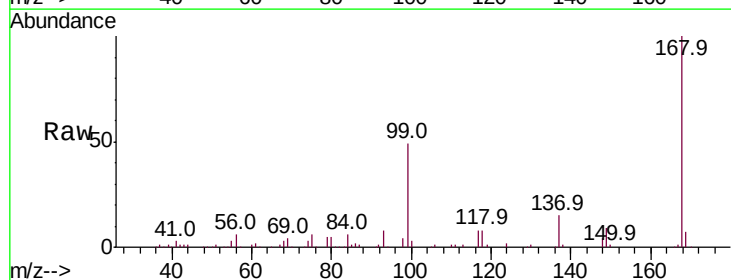
Instrument :
MSVOA_N
ClientSampled :
13904

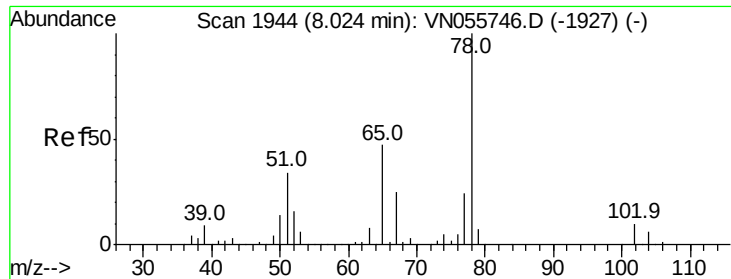
Tot Ion: 43 Resp: 9592
Ion Ratio Lower Upper
43 100
72 26.7 21.9 32.9



#31
Cyclohexane
Concen: 3.797 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

Tgt Ion: 56 Resp: 21544
Ion Ratio Lower Upper
56 100
69 74.8 25.6 38.4#
84 106.0 67.4 101.0#

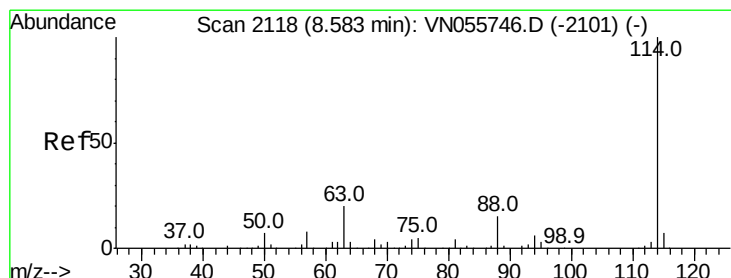
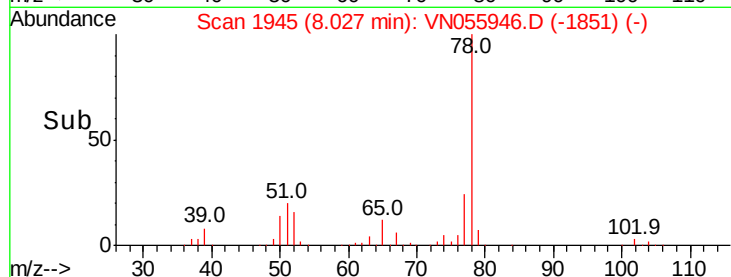
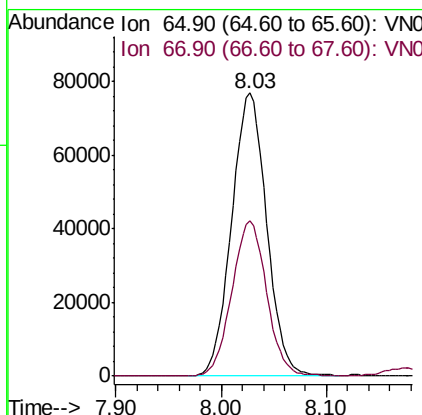
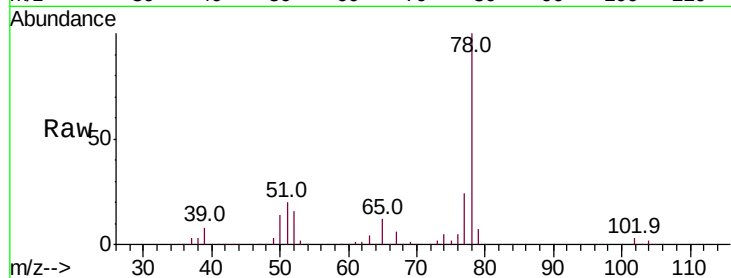




#33
 1,2-Dichloroethane-d4
 Concen: 46.934 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055946.D
 Acq: 1 Jun 2019 4:06

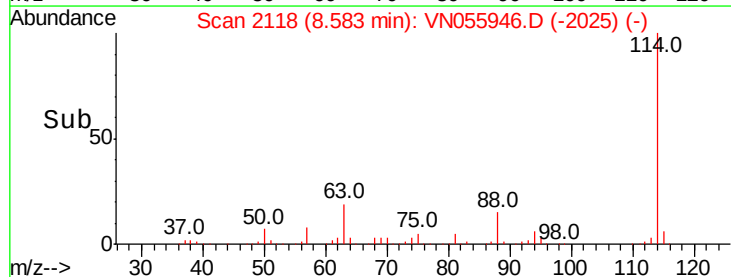
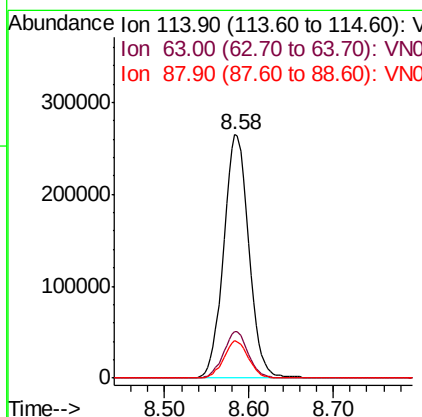
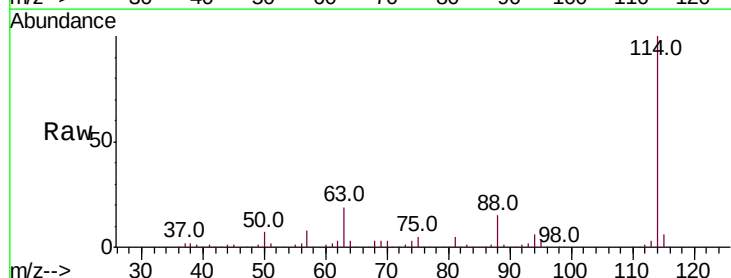
Instrument :
 MSVOA_N
 ClientSampled :
 13904

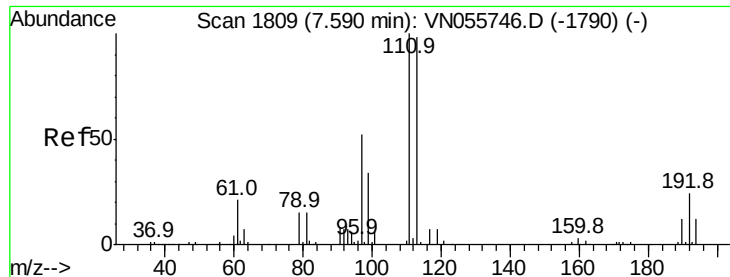
Tot Ion: 65 Resp: 177409
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055946.D
 Acq: 1 Jun 2019 4:06

Tgt Ion: 114 Resp: 549692
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 15.2 0.0 31.0





#35

Dibromofluoromethane

Concen: 44.391 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

Instrument :

MSVOA_N

ClientSampleId :

13904

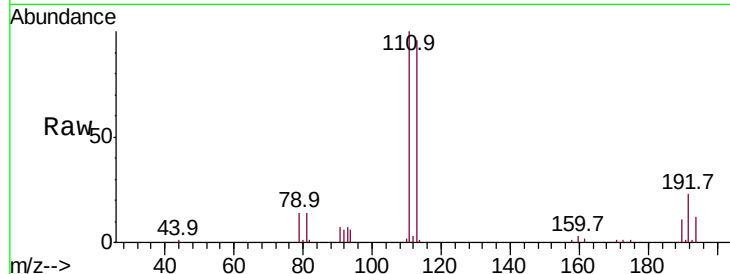
Tot Ion:113 Resp: 154273

Ion Ratio Lower Upper

113 100

111 103.2 81.9 122.9

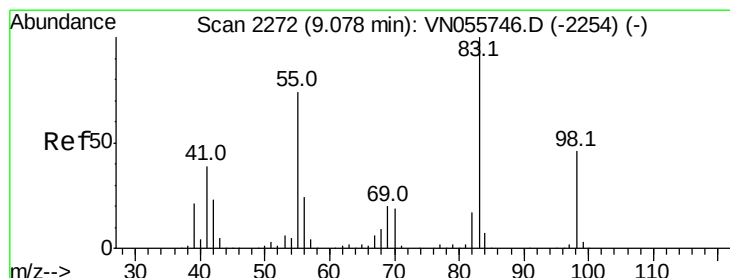
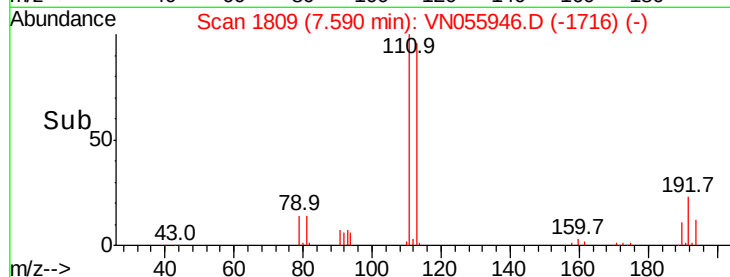
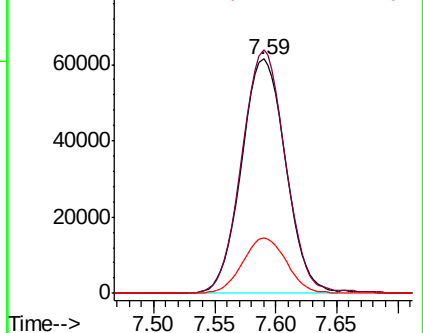
192 23.5 19.5 29.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#39

Methylcyclohexane

Concen: 7.890 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

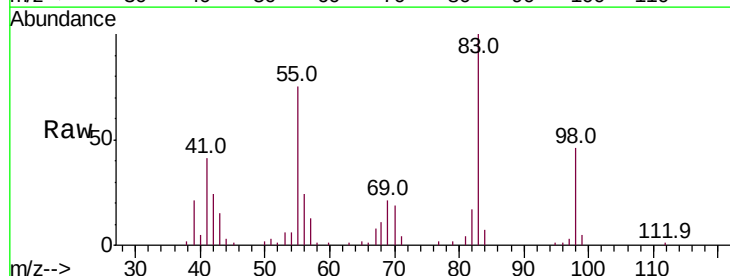
Tgt Ion: 83 Resp: 46802

Ion Ratio Lower Upper

83 100

55 73.6 59.3 88.9

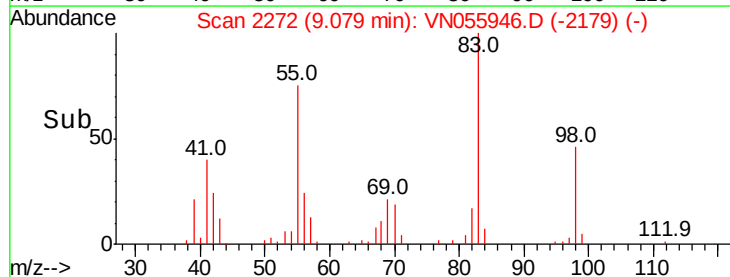
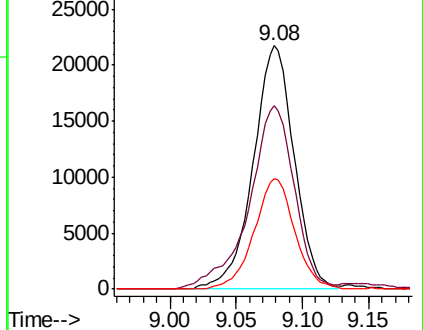
98 45.6 36.6 54.8

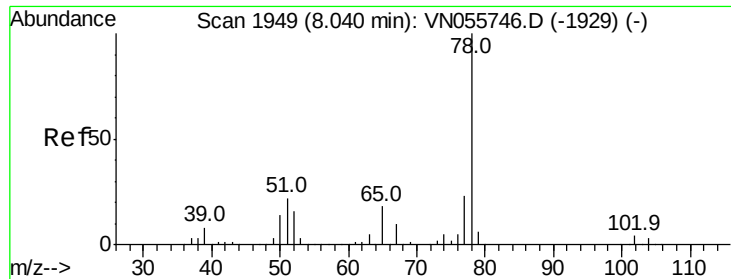


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

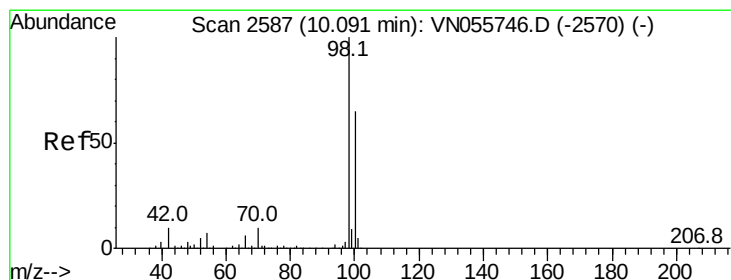
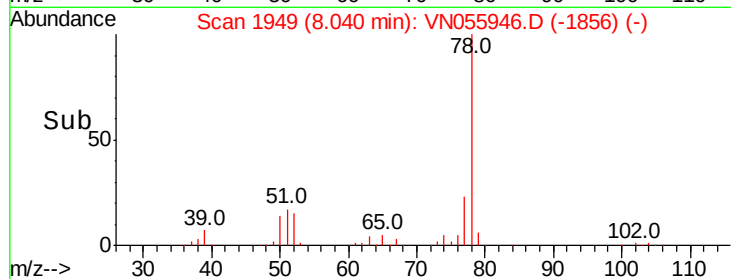
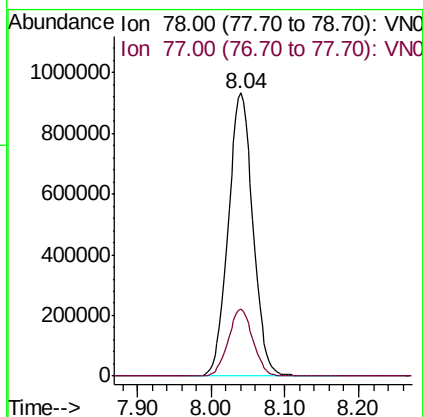
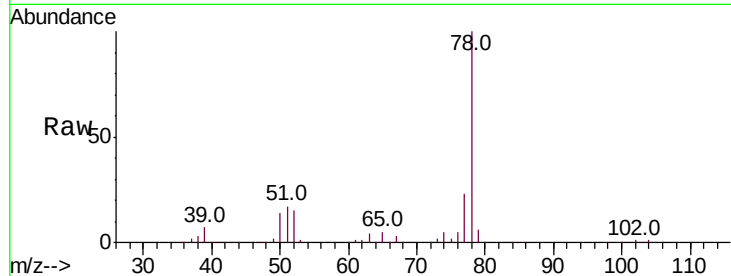




#40
Benzene
Concen: 150.065 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

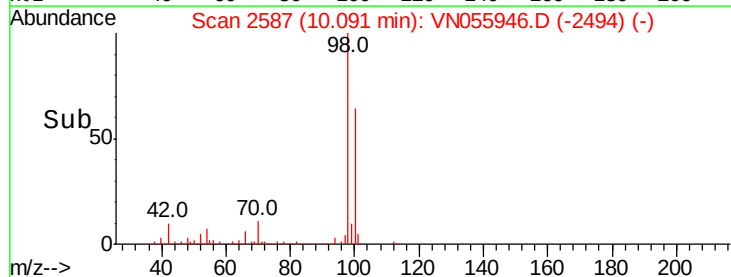
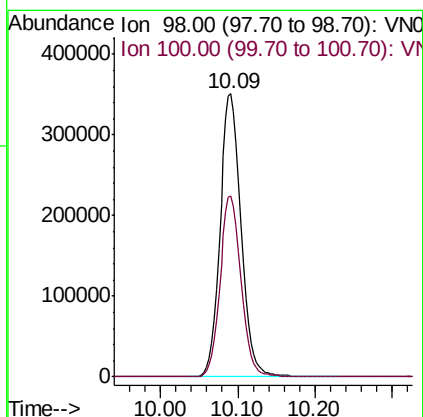
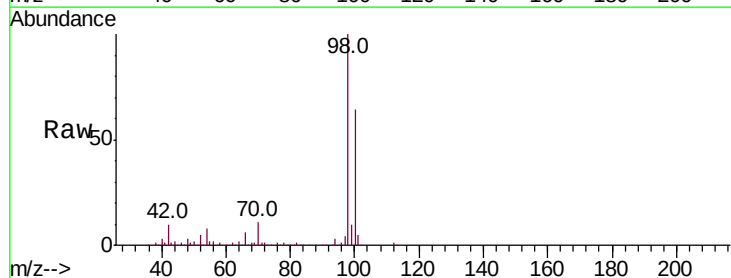
Instrument :
MSVOA_N
ClientSampled :
13904

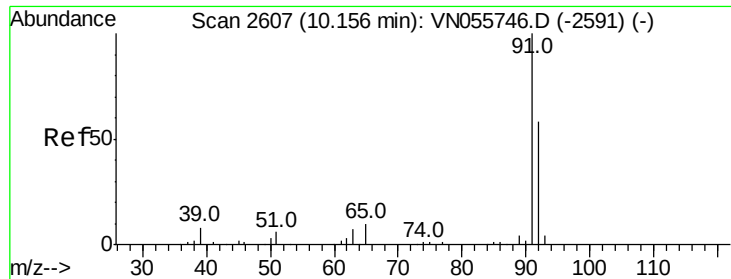
Tot Ion: 78 Resp: 2166519
Ion Ratio Lower Upper
78 100
77 23.5 18.8 28.2



#50
Toluene-d8
Concen: 49.936 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

Tgt Ion: 98 Resp: 665697
Ion Ratio Lower Upper
98 100
100 63.8 51.9 77.9





#52

Toluene

Concen: 1409.232 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

Instrument :

MSVOA_N

ClientSampleId :

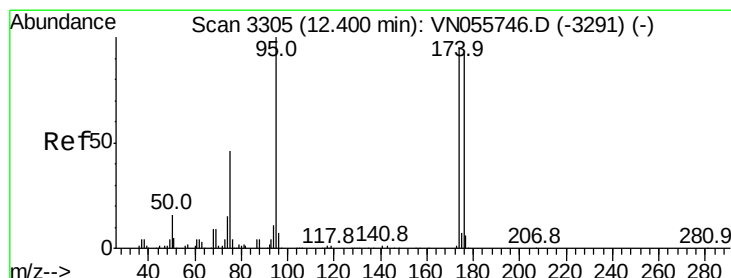
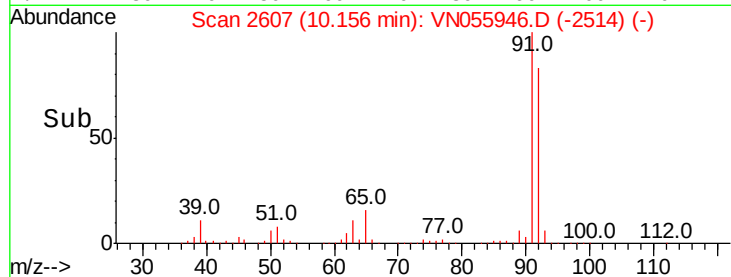
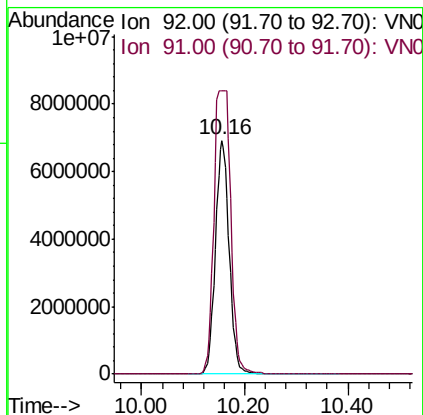
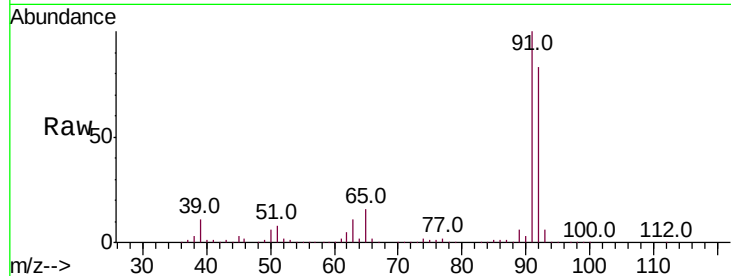
13904

Tot Ion: 92 Resp:12795754

Ion Ratio Lower Upper

92 100

91 0.0 139.4 209.2#



#62

4-Bromofluorobenzene

Concen: 52.961 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

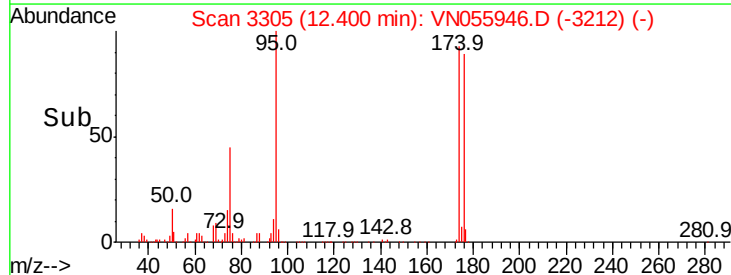
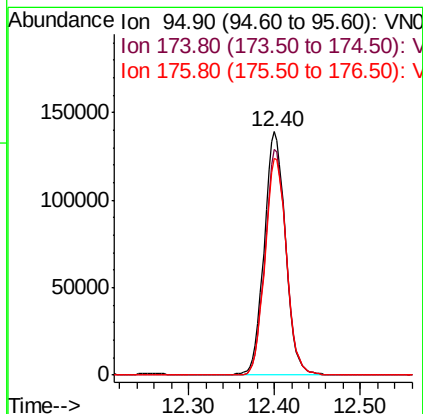
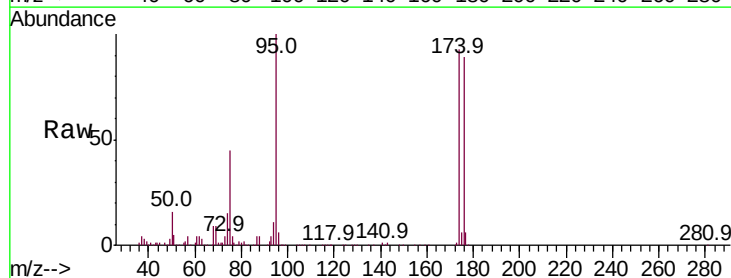
Tgt Ion: 95 Resp: 242089

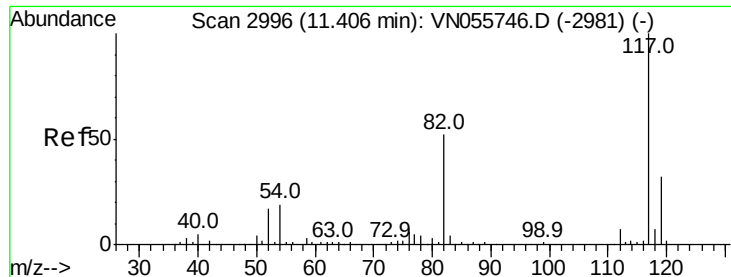
Ion Ratio Lower Upper

95 100

174 91.6 0.0 191.0

176 89.4 0.0 185.2

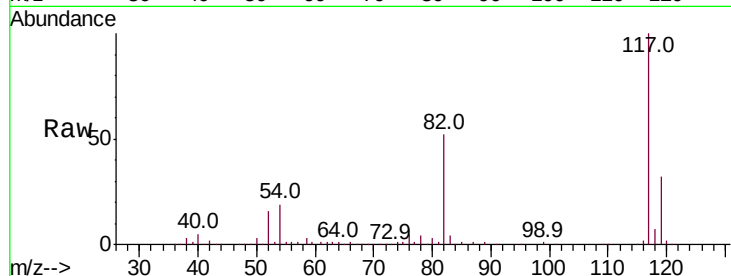




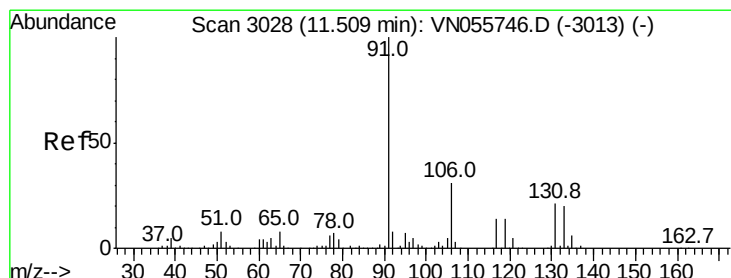
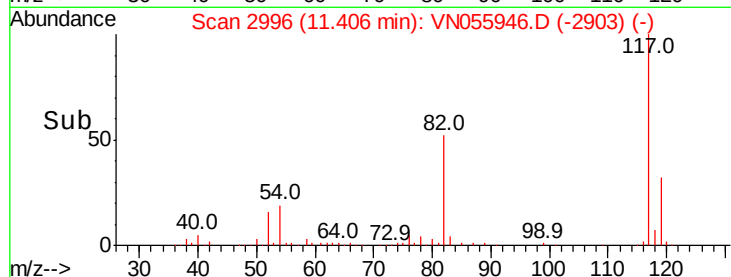
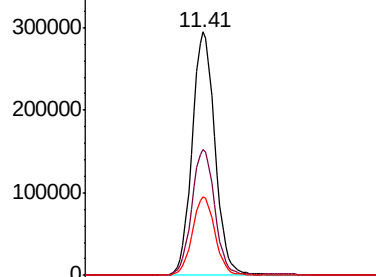
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

Instrument :
MSVOA_N
ClientSampleId :
13904

Tot Ion:117 Resp: 524114
Ion Ratio Lower Upper
117 100
82 51.8 41.8 62.8
119 32.3 25.4 38.0

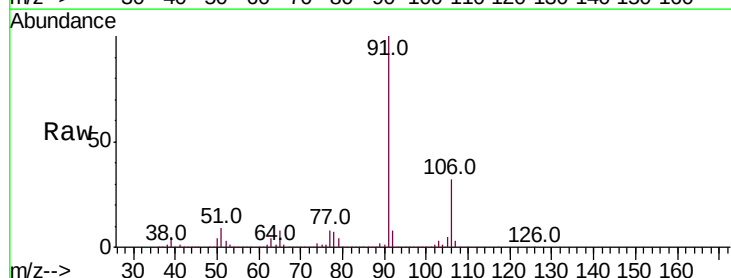


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

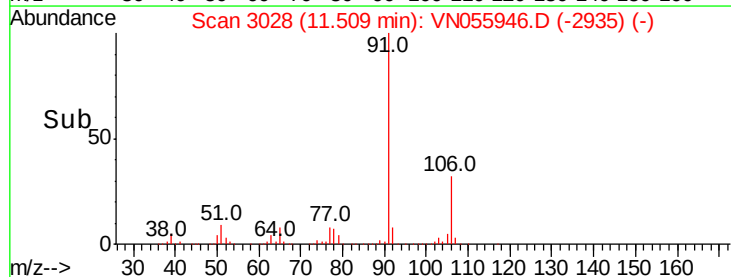
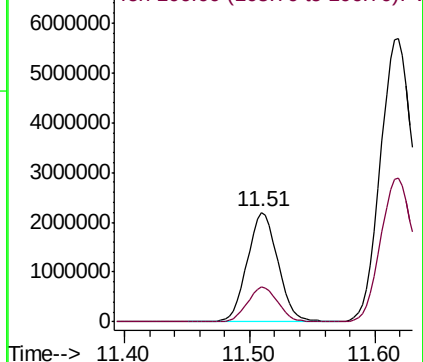


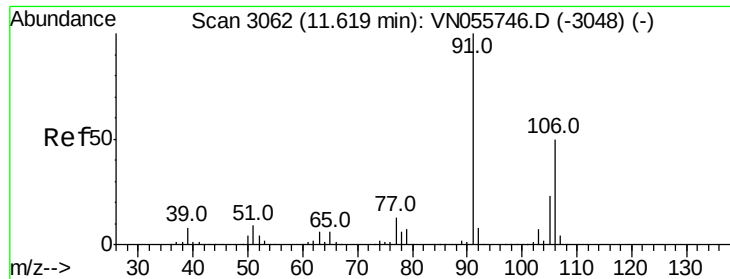
#67
Ethyl Benzene
Concen: 199.520 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

Tgt Ion: 91 Resp: 3754067
Ion Ratio Lower Upper
91 100
106 31.9 25.1 37.7



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

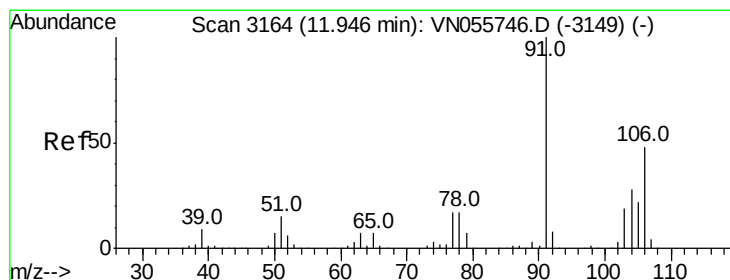
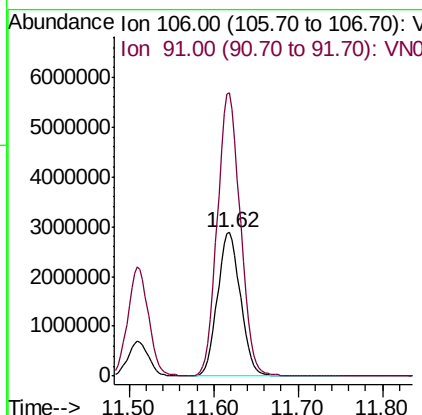
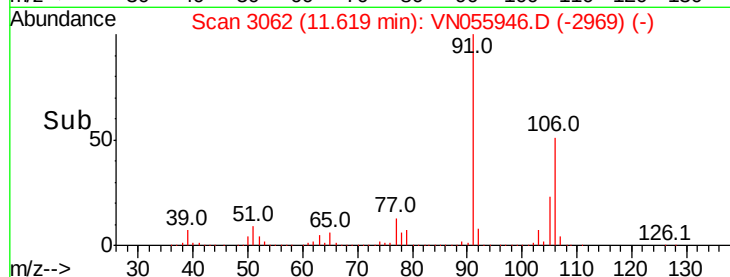
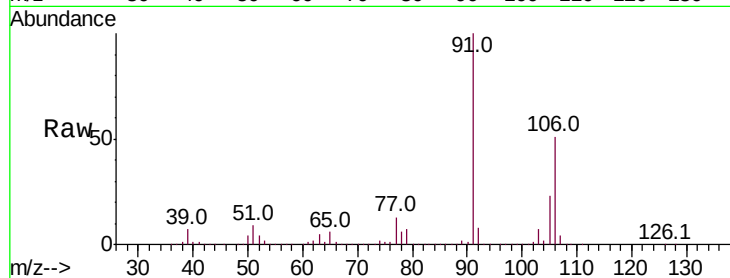




#68
m/p-Xylenes
Concen: 767.354 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

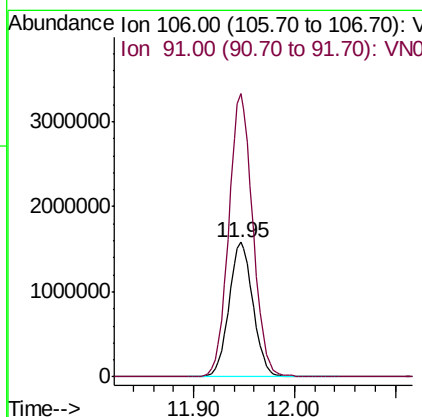
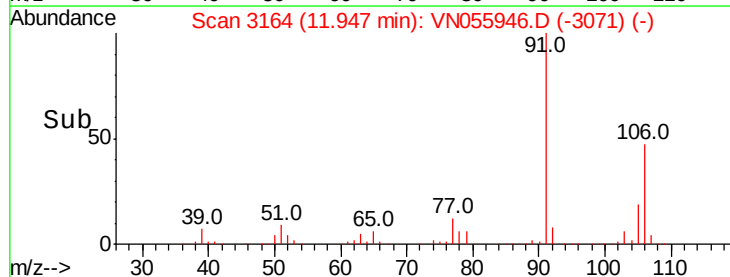
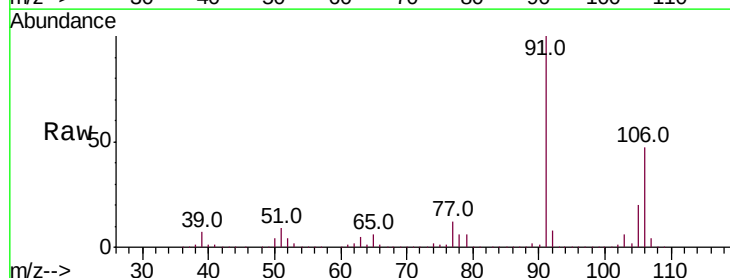
Instrument :
MSVOA_N
ClientSampled :
13904

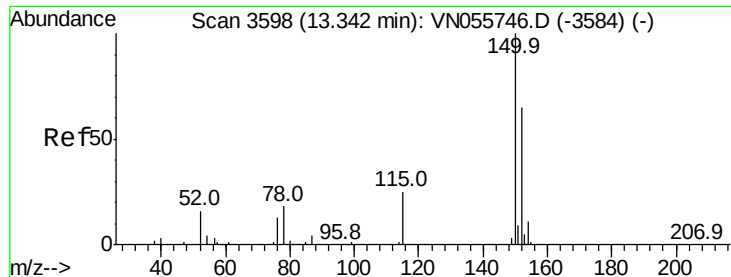
Tot Ion:106 Resp: 5458313
Ion Ratio Lower Upper
106 100
91 197.6 159.3 238.9



#69
o-Xylene
Concen: 372.437 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

Tgt Ion:106 Resp: 2628364
Ion Ratio Lower Upper
106 100
91 210.1 104.7 314.1



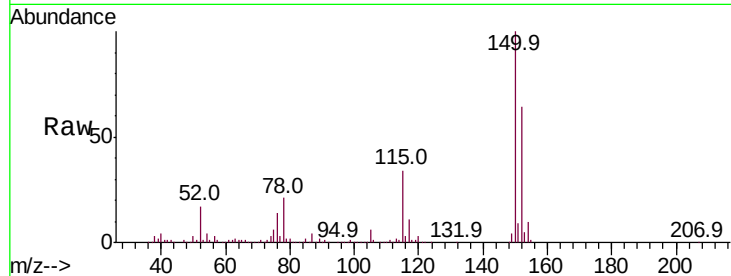


#72

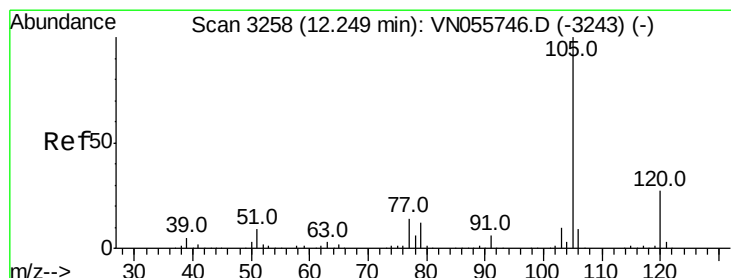
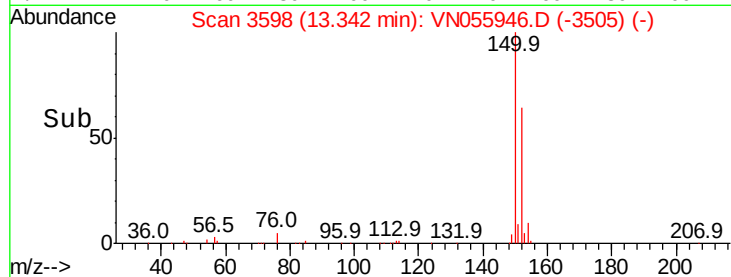
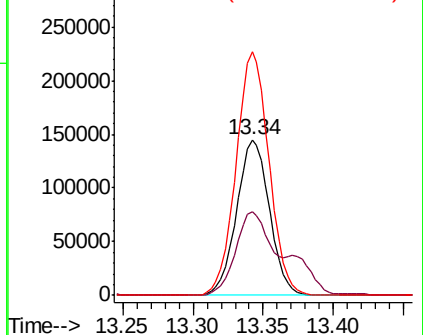
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

Instrument :
MSVOA_N
ClientSampled :
13904

Tot Ion:152 Resp: 236335
Ion Ratio Lower Upper
152 100
115 58.4 27.0 81.0
150 156.7 0.0 343.2



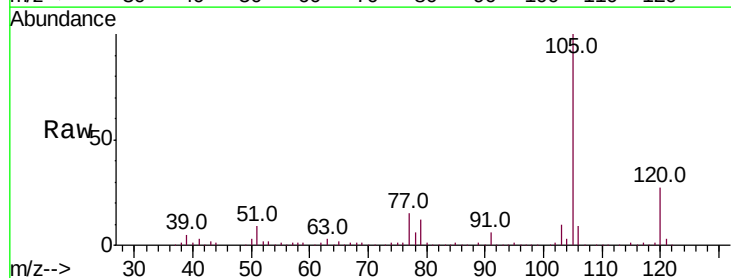
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



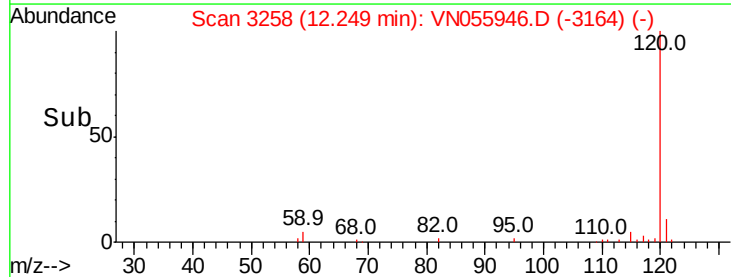
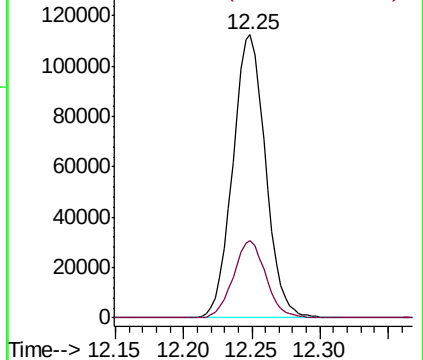
#73

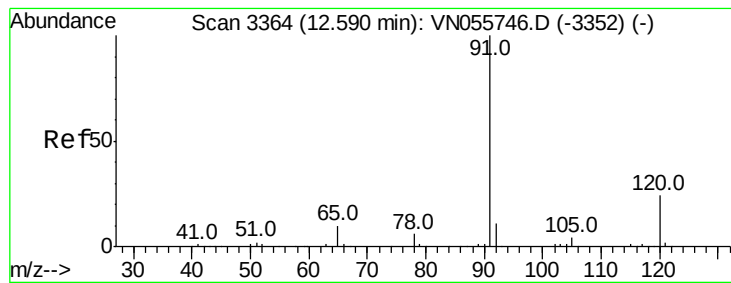
Isopropylbenzene
Concen: 8.974 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055946.D
Acq: 1 Jun 2019 4:06

Tgt Ion:105 Resp: 187662
Ion Ratio Lower Upper
105 100
120 27.1 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 34.433 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

Instrument :

MSVOA_N

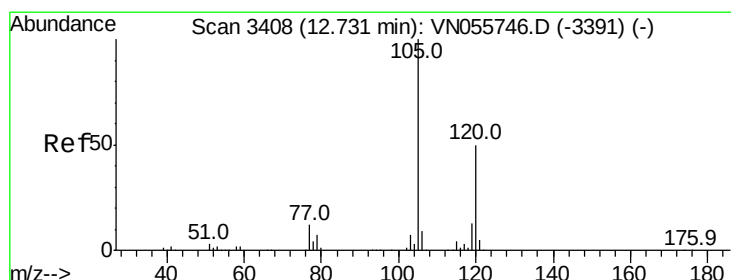
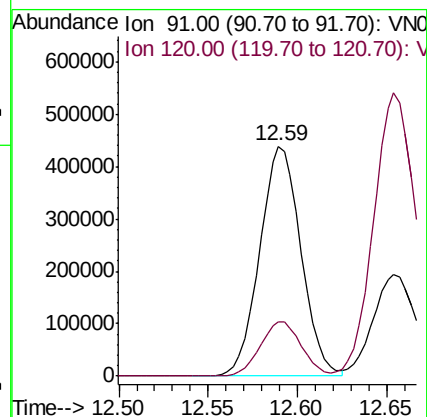
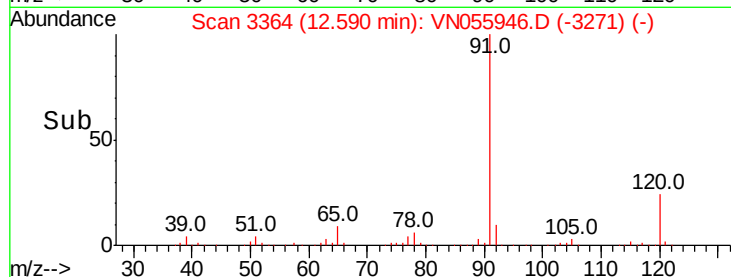
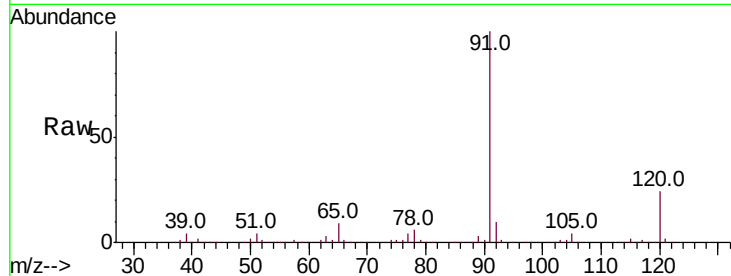
ClientSampled :
13904

Tot Ion: 91 Resp: 707286

Ion Ratio Lower Upper

91 100

120 23.8 12.0 36.0



#80

1,3,5-Trimethylbenzene

Concen: 74.157 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055946.D

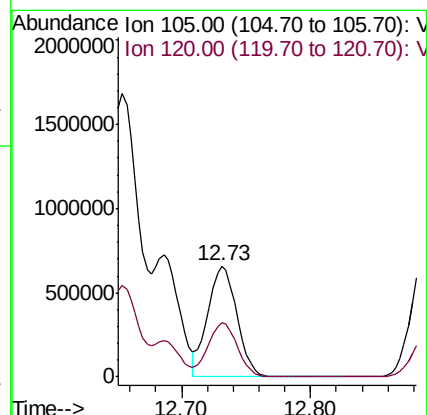
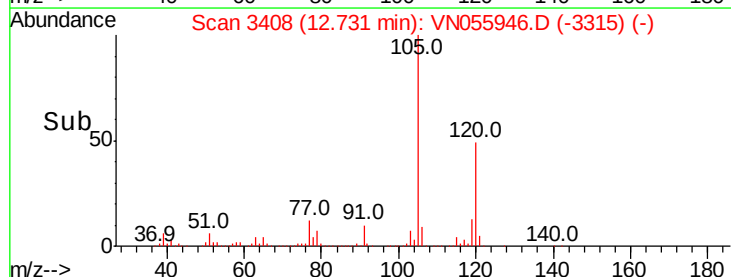
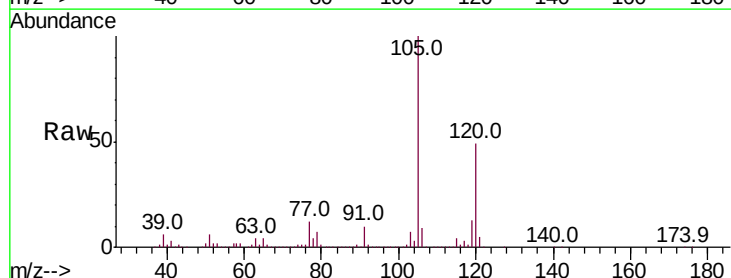
Acq: 1 Jun 2019 4:06

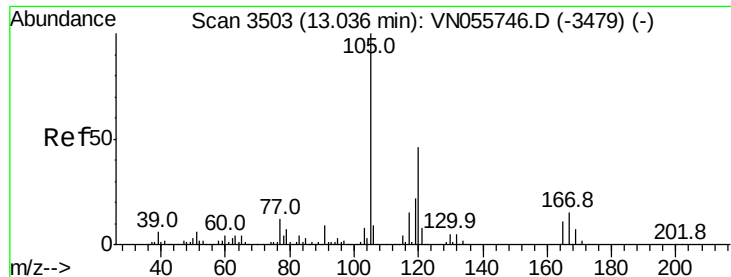
Tgt Ion:105 Resp: 1031875

Ion Ratio Lower Upper

105 100

120 49.3 24.7 74.1





#84

1,2,4-Trimethylbenzene

Concen: 336.562 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

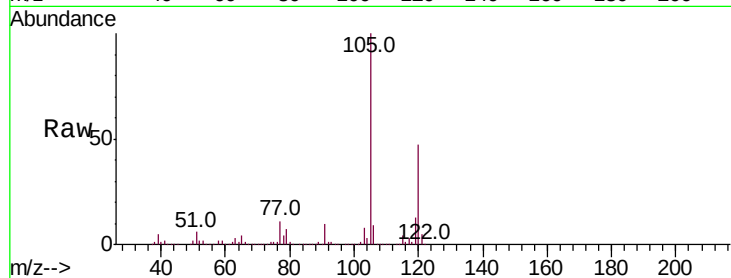
13904

Tot Ion:105 Resp: 4565225

Ion Ratio Lower Upper

105 100

120 46.3 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.04

3000000

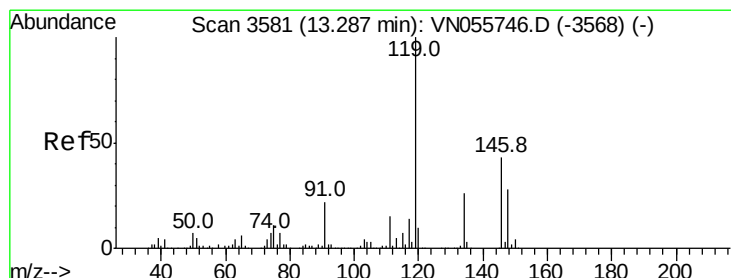
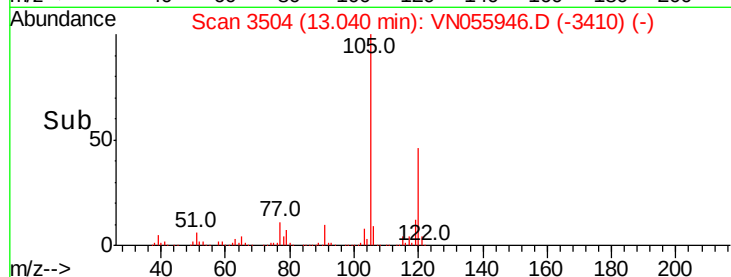
2000000

1000000

0

Time-->

13.00 13.10



#86

p-Isopropyltoluene

Concen: 1.094 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

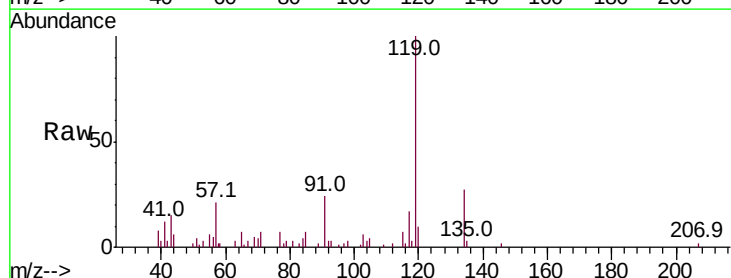
Tgt Ion:119 Resp: 17956

Ion Ratio Lower Upper

119 100

134 27.3 13.4 40.1

91 0.0 10.9 32.9#



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

50000

40000

30000

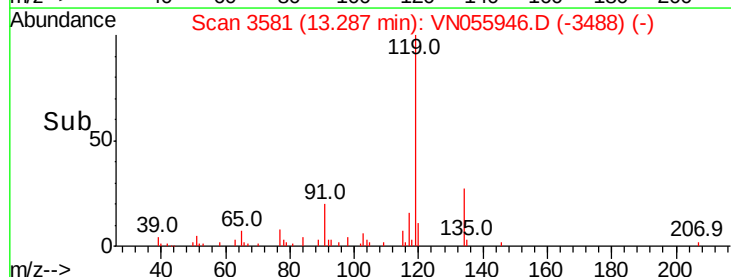
20000

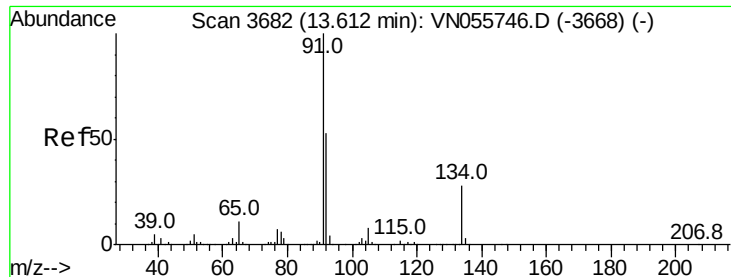
10000

0

Time-->

13.25 13.30





#89

n-Butylbenzene

Concen: 2.622 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

Instrument :

MSVOA_N

ClientSampleId :

13904

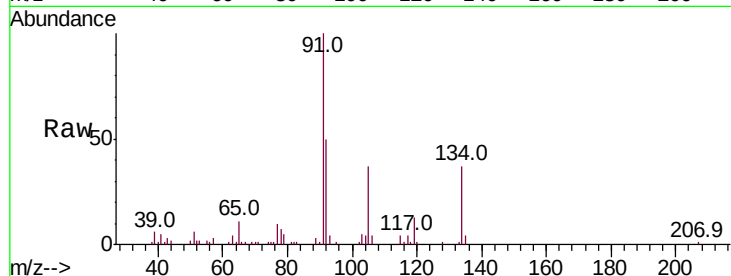
Tot Ion: 91 Resp: 32978

Ion Ratio Lower Upper

91 100

92 78.5 26.4 79.0

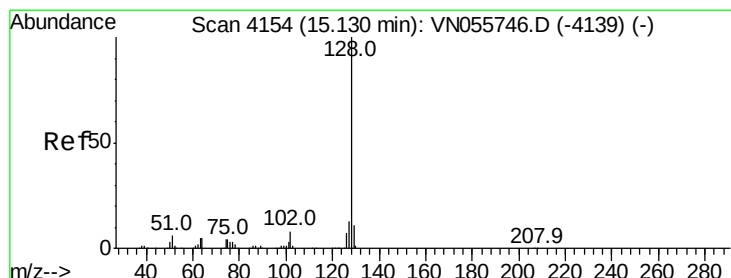
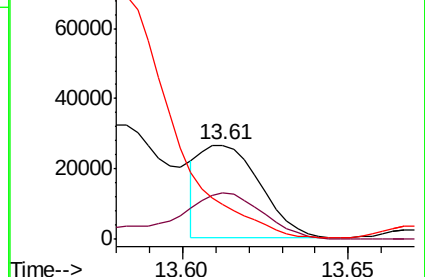
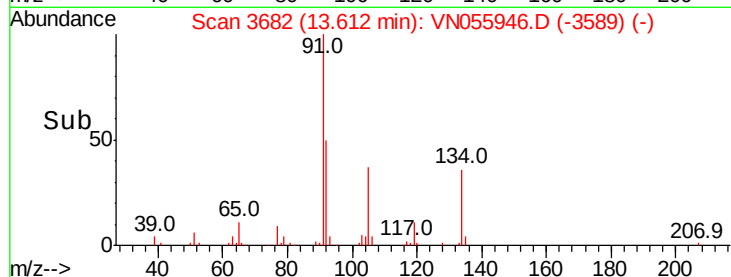
134 0.0 13.9 41.7#



Abundance Ion 91.00 (90.70 to 91.70): VN055946.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN055946.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN055946.D (-3668) (-)



#95

Naphthalene

Concen: 65.680 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055946.D

Acq: 1 Jun 2019 4:06

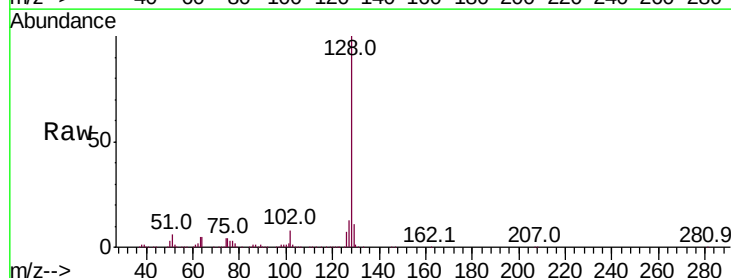
Tgt Ion: 128 Resp: 718049

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): VN055946.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN055946.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN055946.D (-4139) (-)

