

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053076.D
 Acq On : 21 Dec 2018 00:49
 Operator : MD\SY
 Sample : J6519-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-5-9.0-122018

Quant Time: Dec 21 02:57:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1294581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1962366	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1757400	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	768829	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	629022	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
35) Dibromofluoromethane	7.59	113	544021	60.69	ug/l	0.00
Spiked Amount			Recovery	=	121.38%	
50) Toluene-d8	10.09	98	2403444	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
62) 4-Bromofluorobenzene	12.40	95	821511	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	

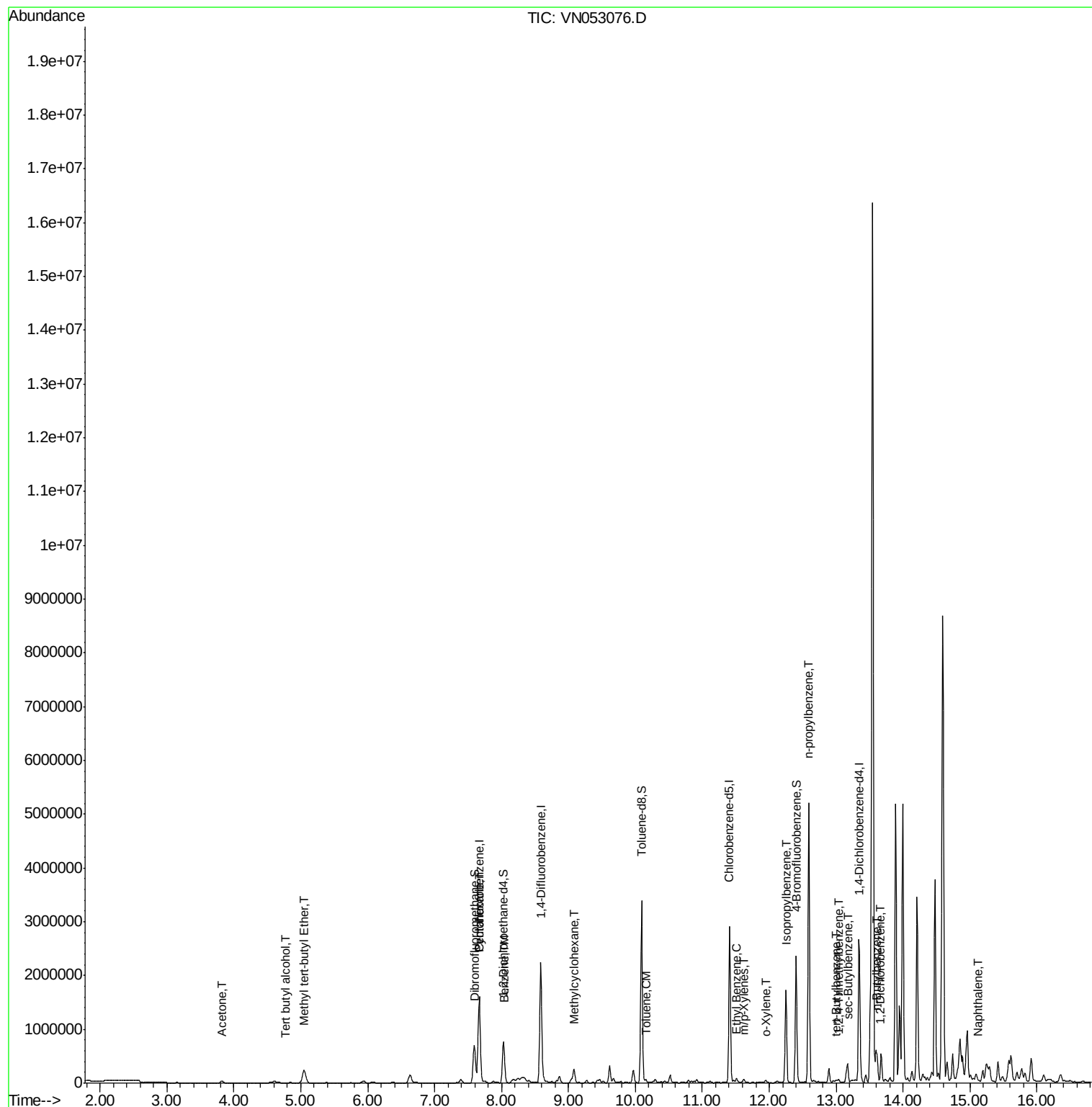
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	8418	10.501	ug/l #	74
16) Acetone	3.82	43	71696	27.834	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	376654	11.407	ug/l #	84
31) Cyclohexane	7.66	56	133252	4.913	ug/l #	82
39) Methylcyclohexane	9.08	83	118846	5.194	ug/l	98
40) Benzene	8.05	78	22437	0.400	ug/l	92
52) Toluene	10.16	92	21212	0.611	ug/l	98
67) Ethyl Benzene	11.51	91	49030	0.732	ug/l	98
68) m/p-Xylenes	11.62	106	21534	0.846	ug/l	100
69) o-Xylene	11.95	106	12469	0.510	ug/l	92
73) Isopropylbenzene	12.25	105	1185777	19.712	ug/l	100
78) n-propylbenzene	12.59	91	4268443	62.304	ug/l	100
83) tert-Butylbenzene	12.99	119	16937	0.391	ug/l	93
84) 1,2,4-Trimethylbenzene	13.04	105	24873	0.505	ug/l	96
85) sec-Butylbenzene	13.17	105	214907	3.664	ug/l #	72
89) n-Butylbenzene	13.62	91	295497	6.777	ug/l #	75
91) 1,2-Dichlorobenzene	13.65	146	7282	0.280	ug/l	96
95) Naphthalene	15.13	128	8233	1.413	ug/l #	69

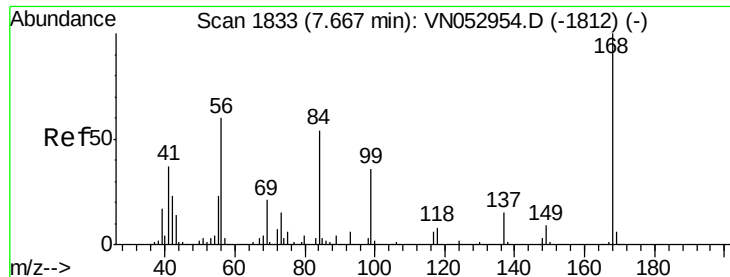
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

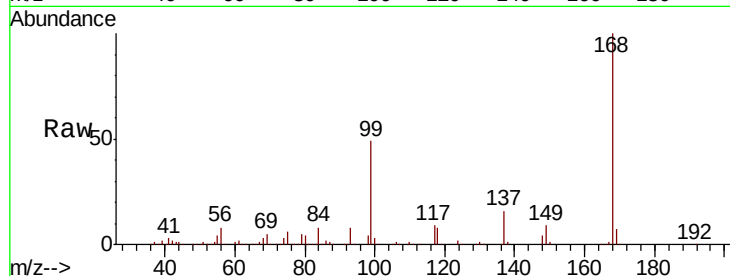
T11-MW-5-9.0-122018

Tot Ion:168 Resp: 1294581

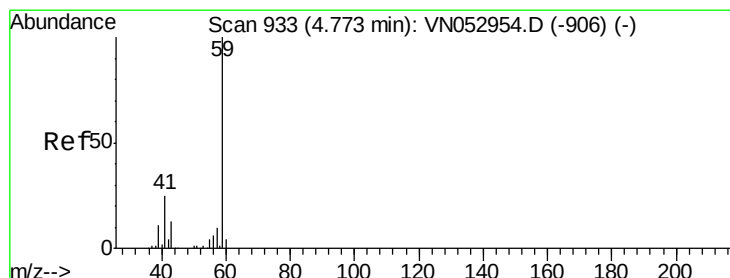
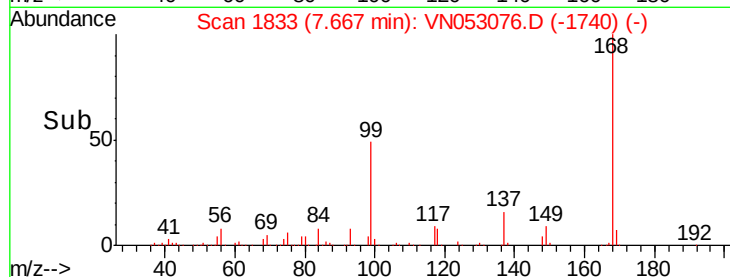
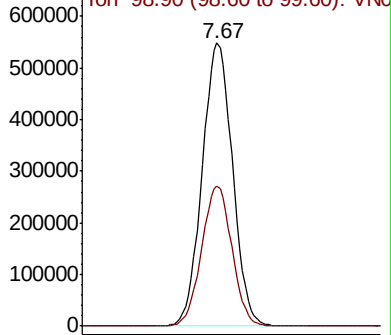
Ion Ratio Lower Upper

168 100

99 49.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053076.D (-1740) (-)



#11

Tert butyl alcohol

Concen: 10.501 ug/l

RT: 4.78 min Scan# 935

Delta R.T. 0.01 min

Lab File: VN053076.D

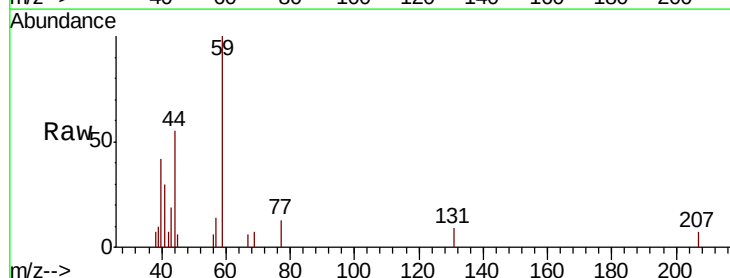
Acq: 21 Dec 2018 00:49

Tgt Ion: 59 Resp: 8418

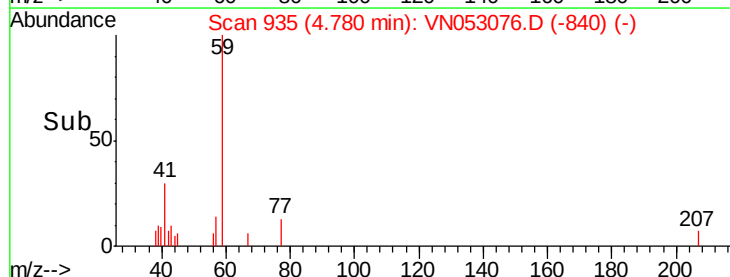
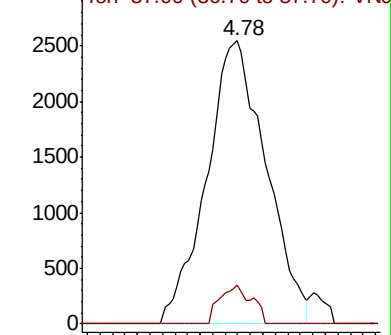
Ion Ratio Lower Upper

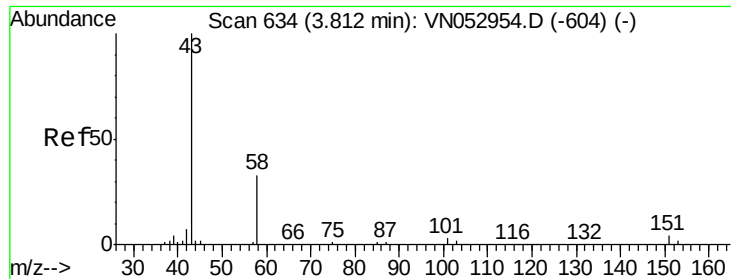
59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN053076.D (-840) (-)





#16

Acetone

Concen: 27.834 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

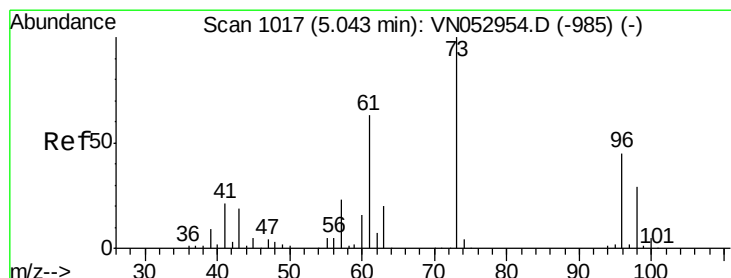
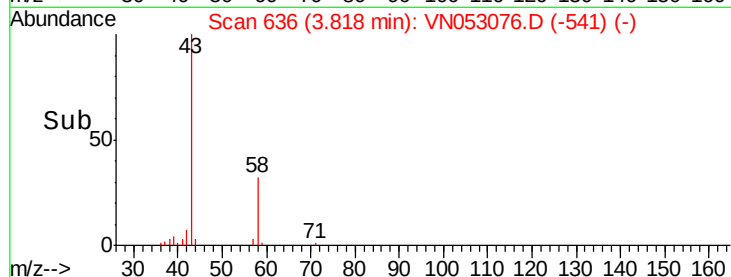
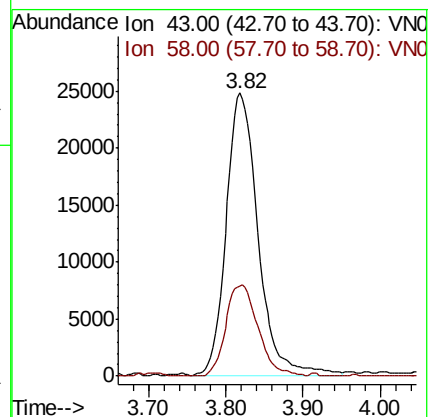
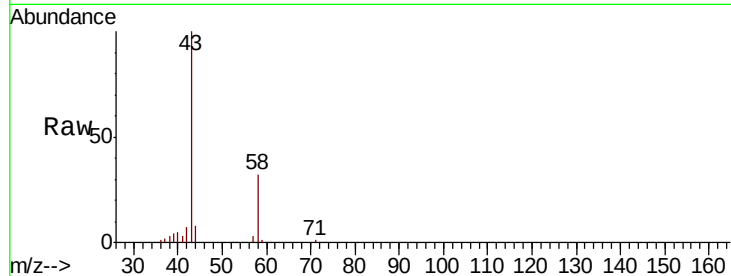
T11-MW-5-9.0-122018

Tot Ion: 43 Resp: 71696

Ion Ratio Lower Upper

43 100

58 32.0 25.4 38.0



#19

Methyl tert-butyl Ether

Concen: 11.407 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN053076.D

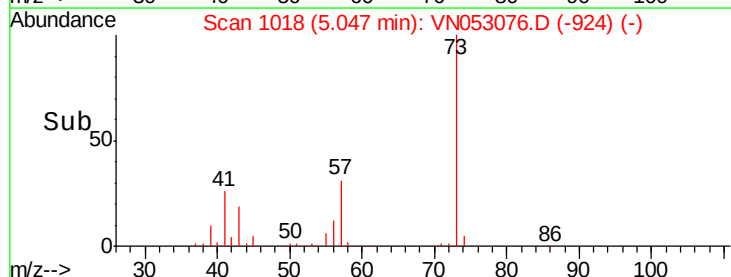
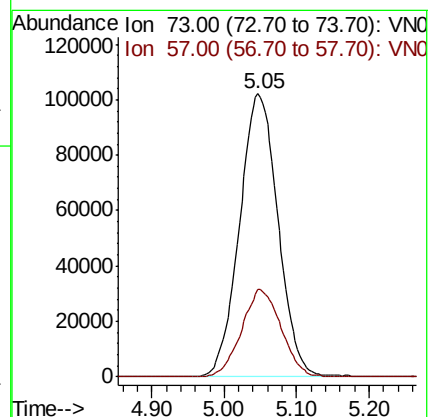
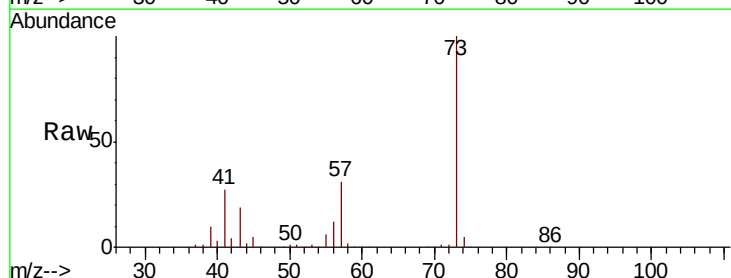
Acq: 21 Dec 2018 00:49

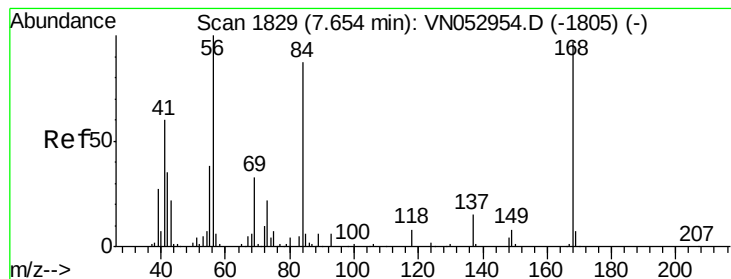
Tgt Ion: 73 Resp: 376654

Ion Ratio Lower Upper

73 100

57 30.8 18.4 27.6#





#31

Cyclohexane

Concen: 4.913 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-5-9.0-122018

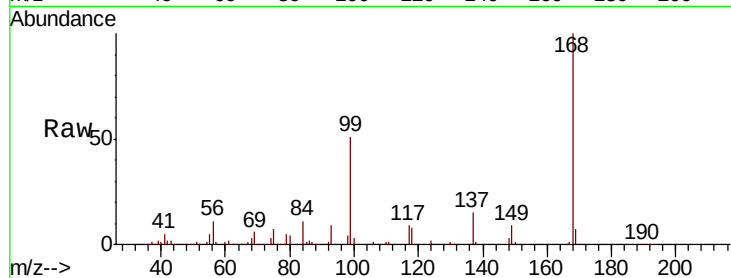
Tot Ion: 56 Resp: 133252

Ion Ratio Lower Upper

56 100

69 55.0 26.6 39.8#

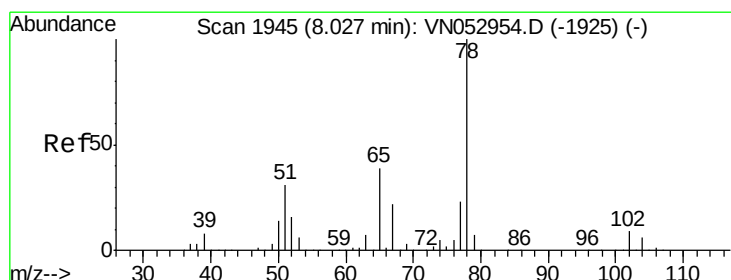
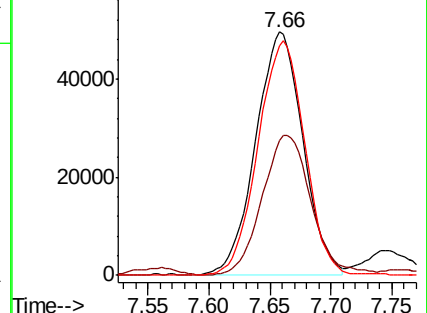
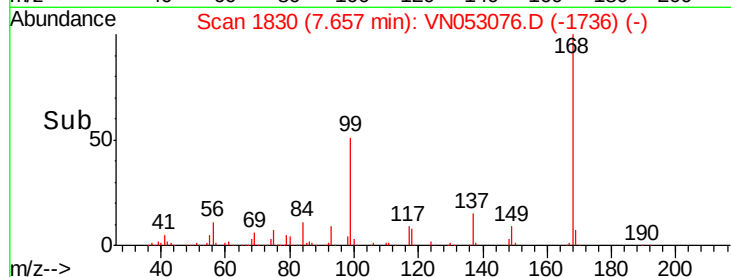
84 94.3 68.4 102.6



Abundance Ion 56.00 (55.70 to 56.70): VN053076.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN053076.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN053076.D (-1736) (-)



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053076.D

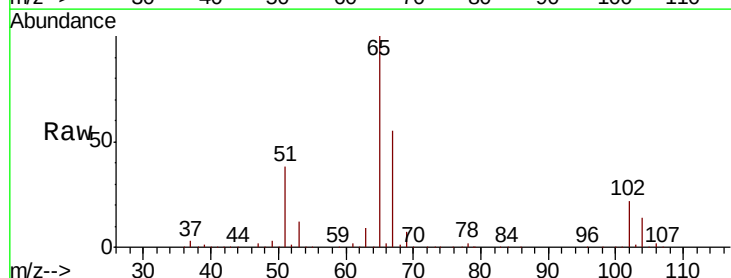
Acq: 21 Dec 2018 00:49

Tgt Ion: 65 Resp: 629022

Ion Ratio Lower Upper

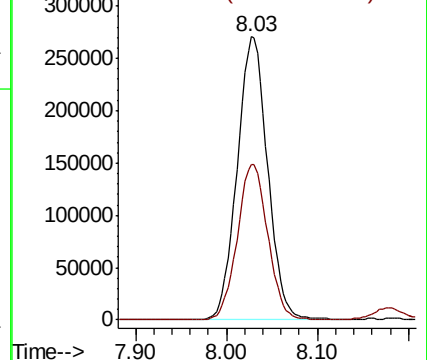
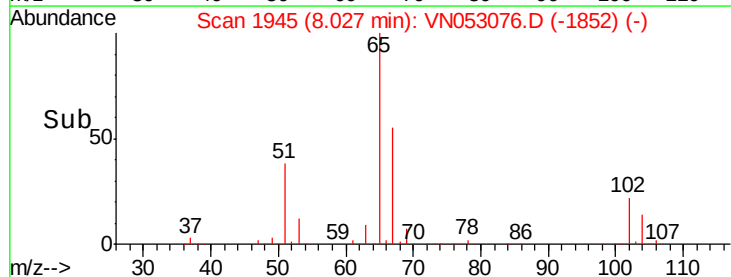
65 100

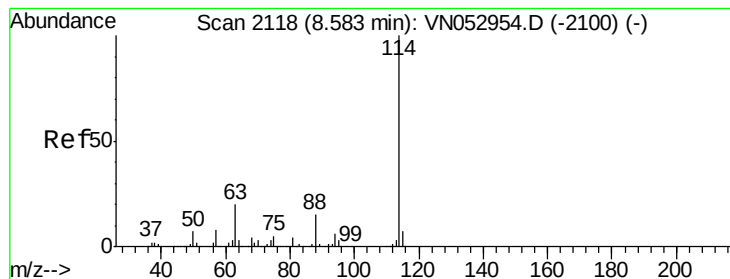
67 55.0 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN053076.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053076.D (-1852) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-5-9.0-122018

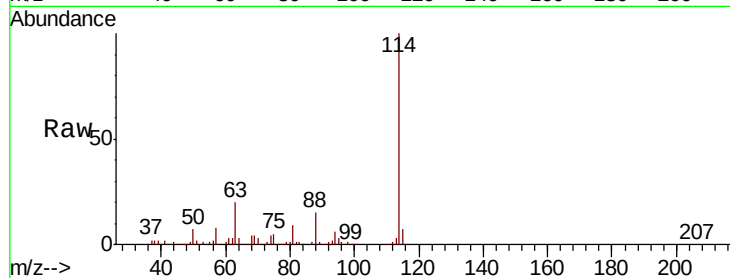
Tot Ion:114 Resp: 1962366

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.8

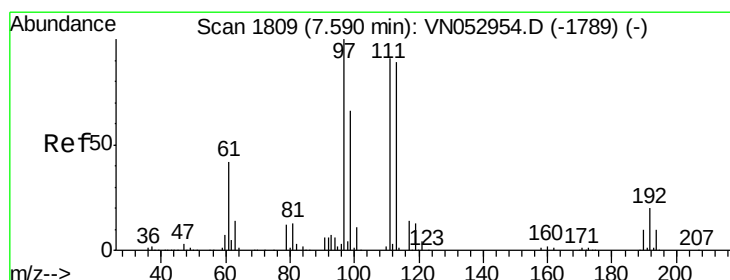
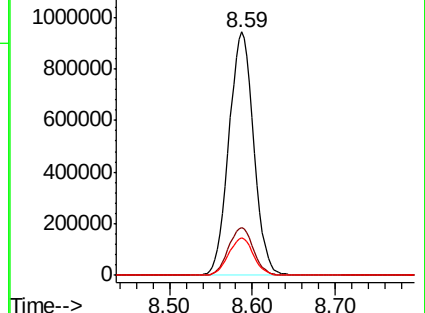
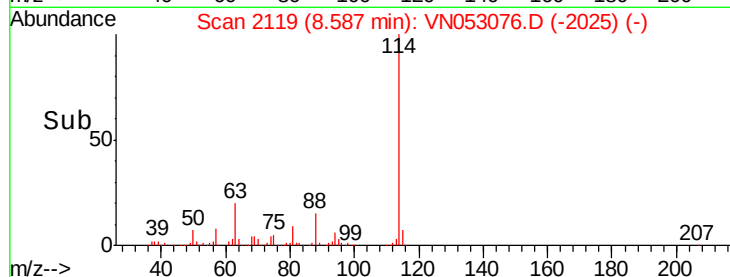
88 15.4 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

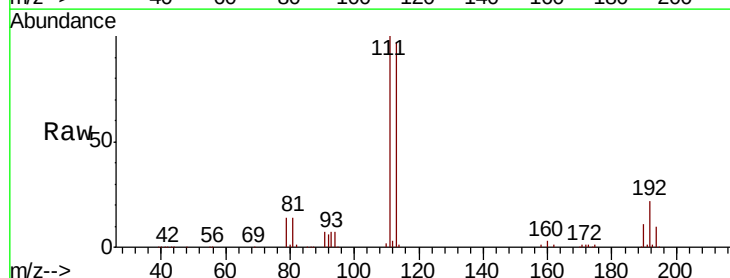
Tgt Ion:113 Resp: 544021

Ion Ratio Lower Upper

113 100

111 102.1 83.0 124.4

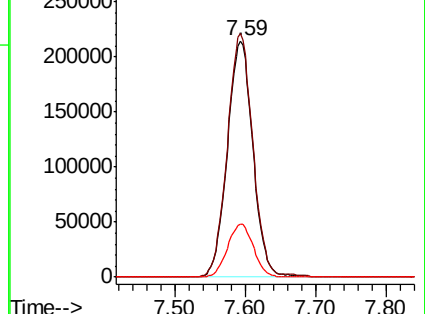
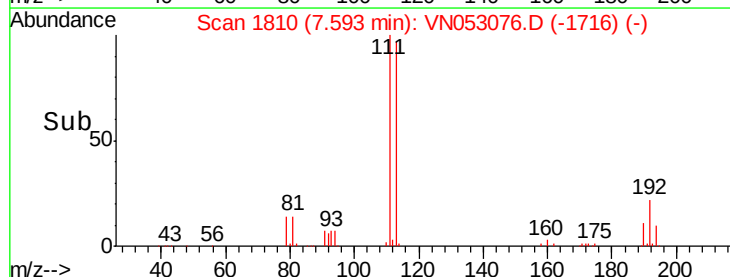
192 22.8 17.5 26.3

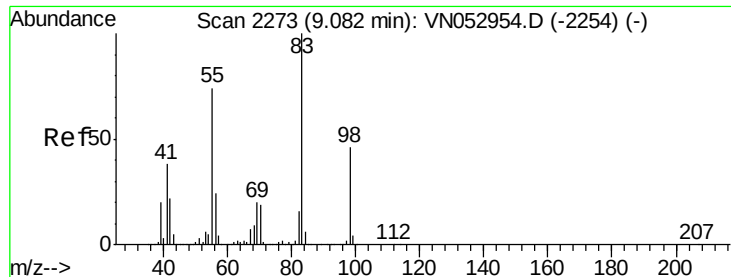


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

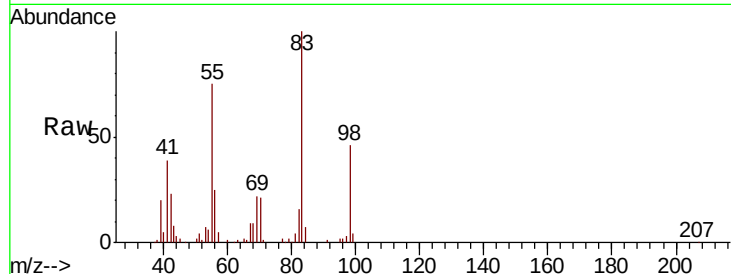




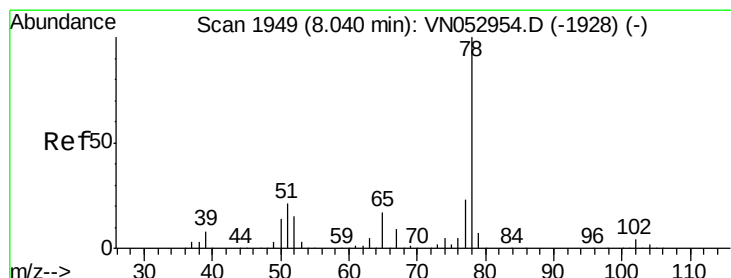
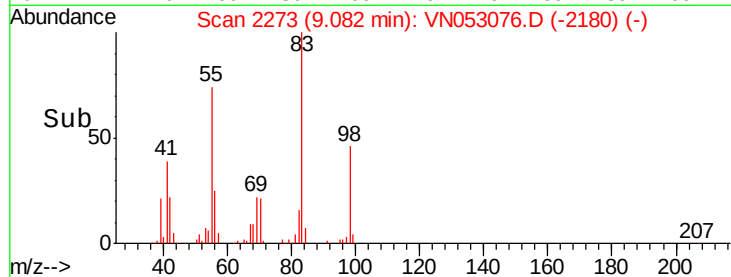
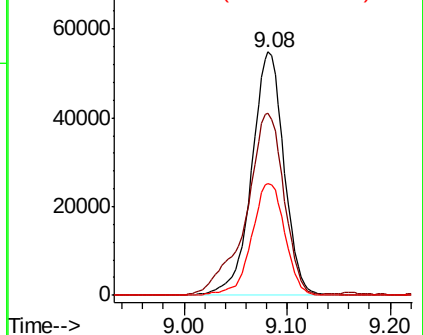
#39
Methylvlcyclohexane
Concen: 5.194 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053076.D
Acq: 21 Dec 2018 00:49

Instrument :
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T11-MW-5-9.0-122018

Tot Ion: 83 Resp: 118846
Ion Ratio Lower Upper
83 100
55 74.1 61.3 91.9
98 46.1 37.0 55.4

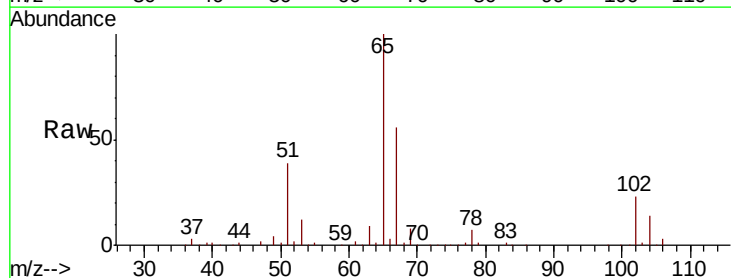


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

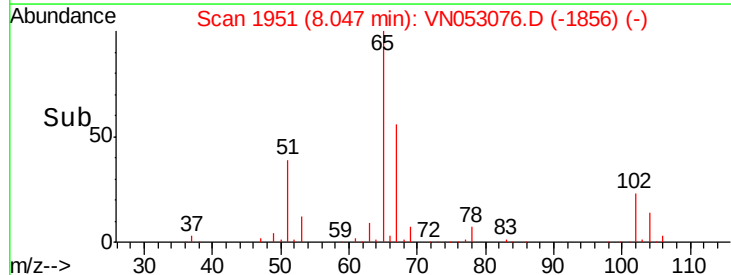
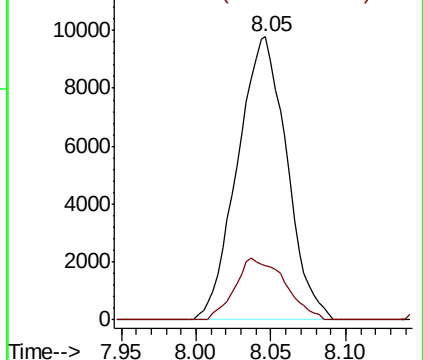


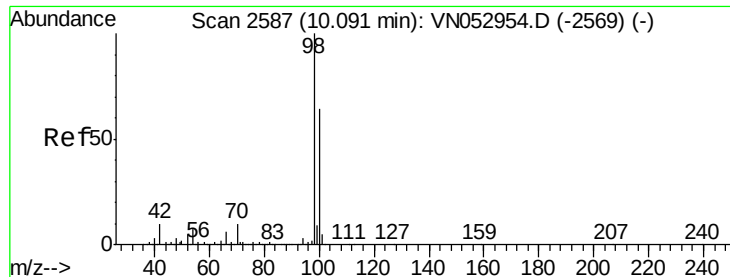
#40
Benzene
Concen: 0.400 ug/l
RT: 8.05 min Scan# 1951
Delta R.T. 0.01 min
Lab File: VN053076.D
Acq: 21 Dec 2018 00:49

Tgt Ion: 78 Resp: 22437
Ion Ratio Lower Upper
78 100
77 19.3 18.5 27.7



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

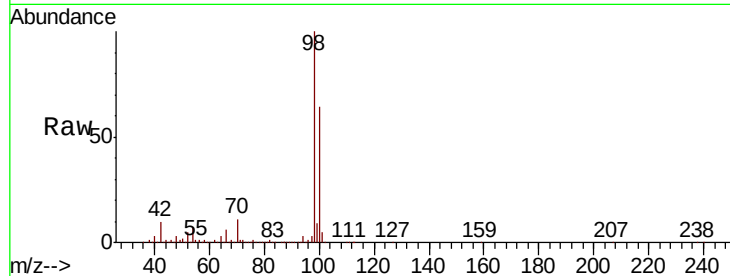
T11-MW-5-9.0-122018

Tot Ion: 98 Resp: 2403444

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

1500000

1000000

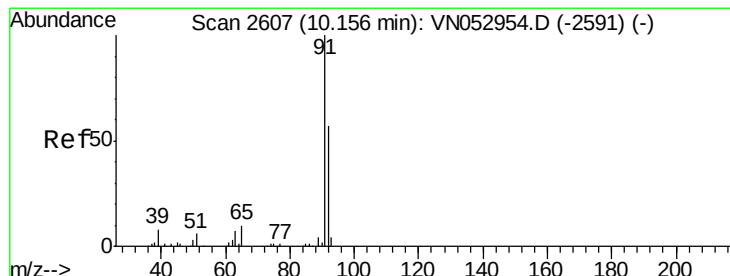
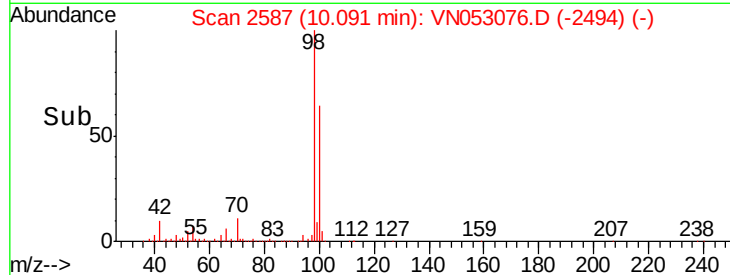
500000

0

10.09

10.00 10.10 10.20

Time-->



#52

Toluene

Concen: 0.611 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN053076.D

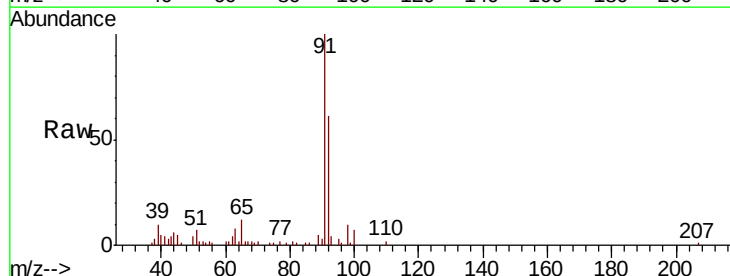
Acq: 21 Dec 2018 00:49

Tgt Ion: 92 Resp: 21212

Ion Ratio Lower Upper

92 100

91 171.2 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

20000

15000

10000

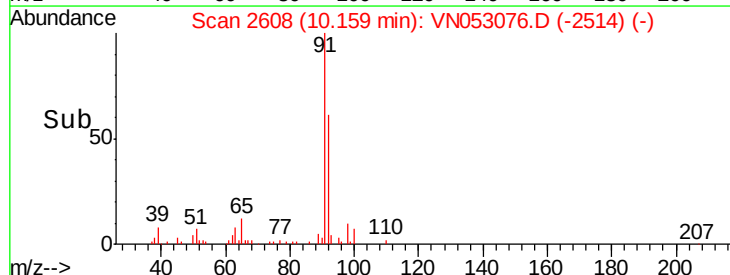
5000

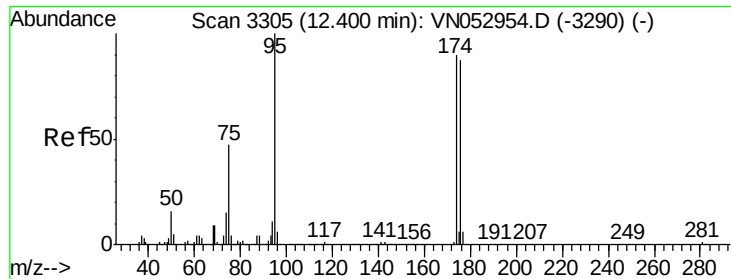
0

10.16

10.10 10.15 10.20

Time-->





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-5-9.0-122018

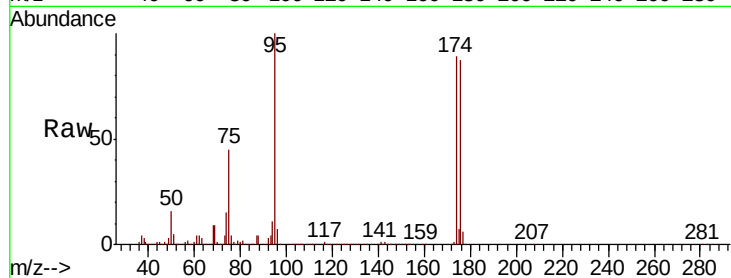
Tot Ion: 95 Resp: 821511

Ion Ratio Lower Upper

95 100

174 89.3 0.0 178.8

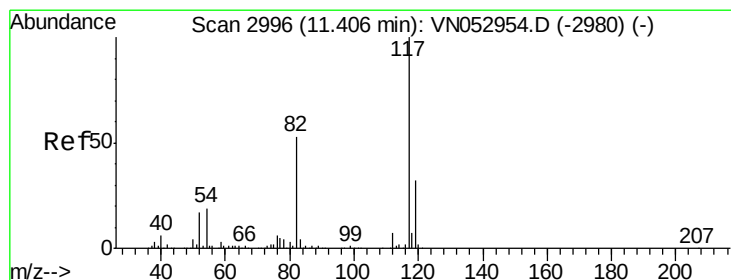
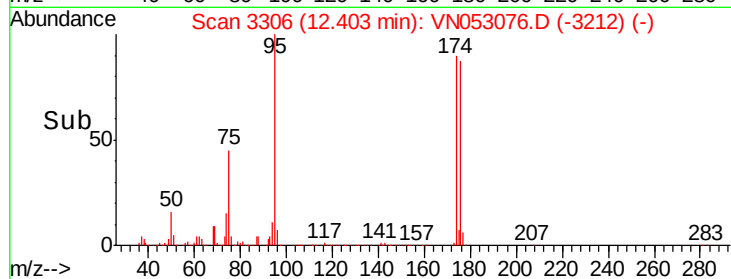
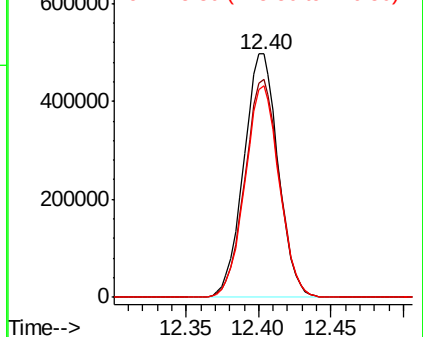
176 86.6 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

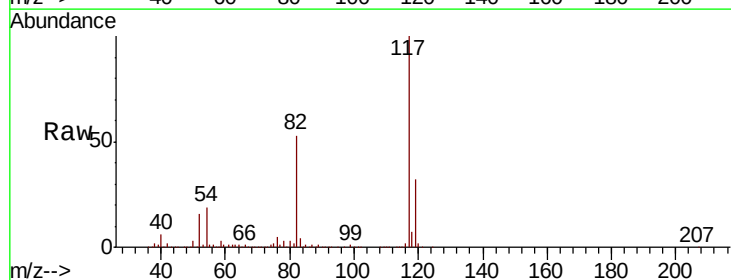
Tgt Ion: 117 Resp: 1757400

Ion Ratio Lower Upper

117 100

82 53.1 42.8 64.2

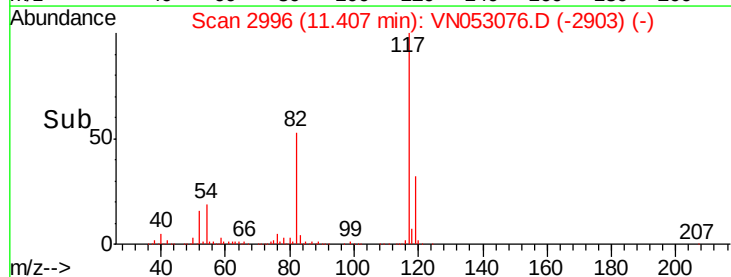
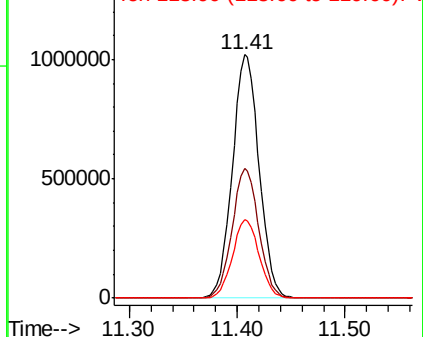
119 32.3 25.5 38.3

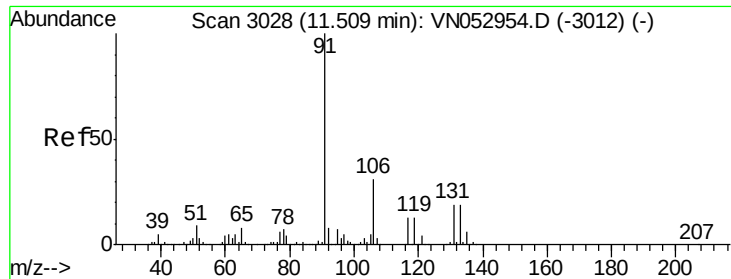


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#67

Ethyl Benzene

Concen: 0.732 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

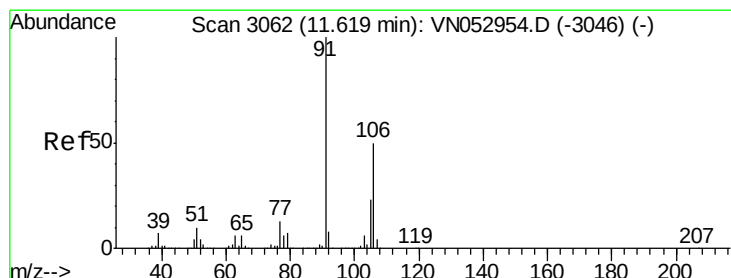
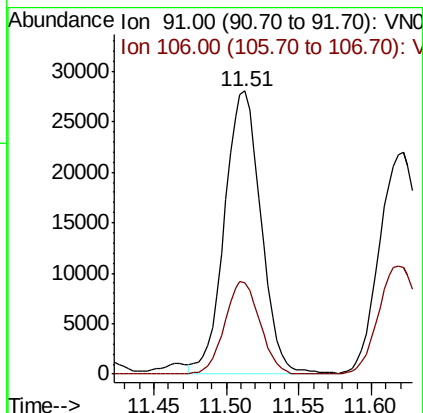
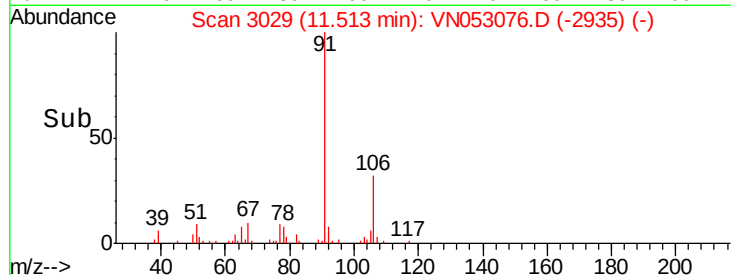
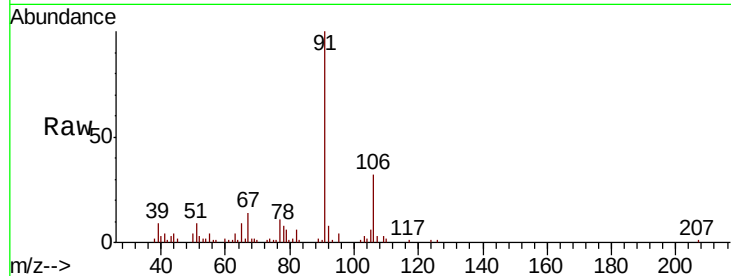
T11-MW-5-9.0-122018

Tot Ion: 91 Resp: 49030

Ion Ratio Lower Upper

91 100

106 32.5 24.9 37.3



#68

m/p-Xylenes

Concen: 0.846 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN053076.D

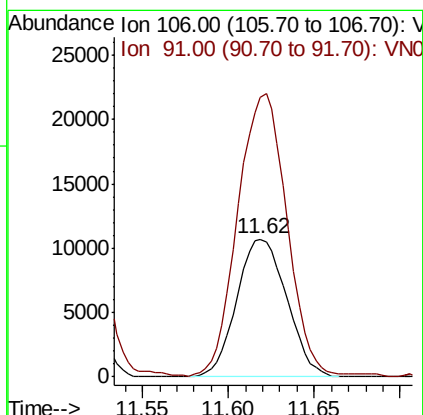
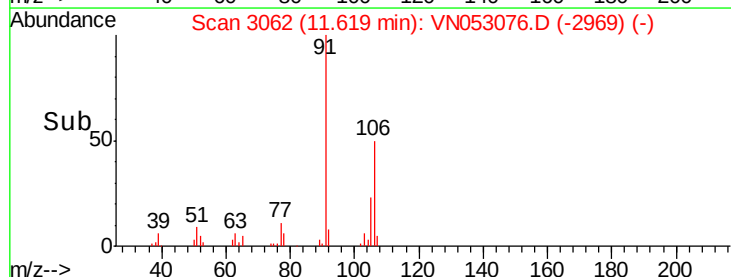
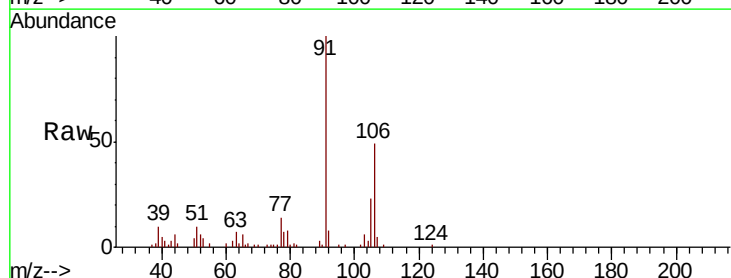
Acq: 21 Dec 2018 00:49

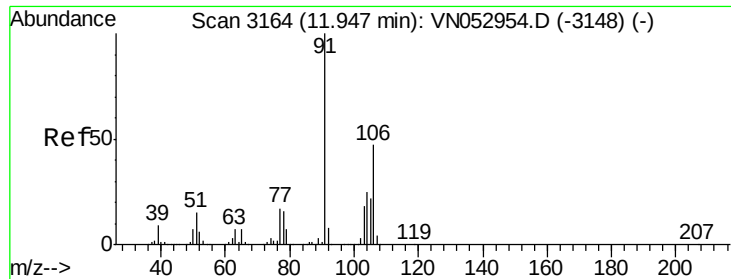
Tgt Ion: 106 Resp: 21534

Ion Ratio Lower Upper

106 100

91 202.6 162.2 243.4

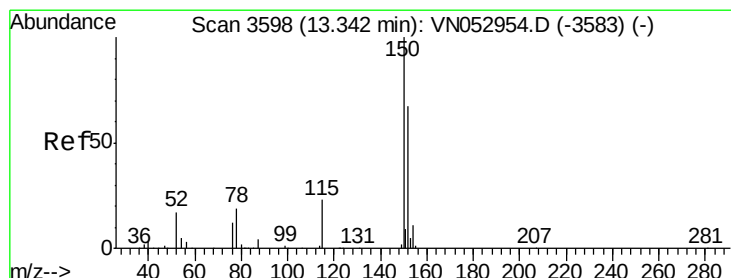
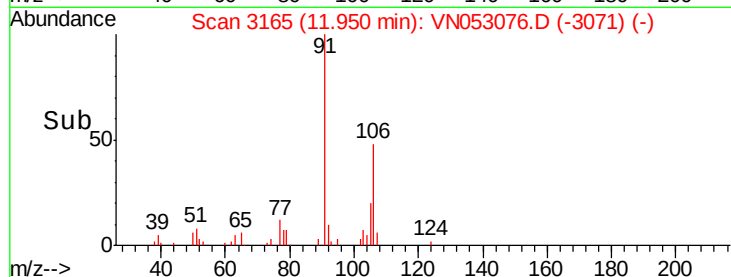
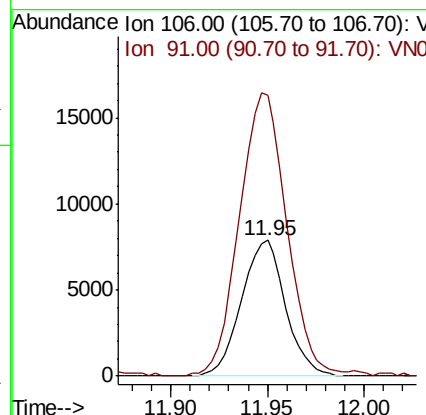
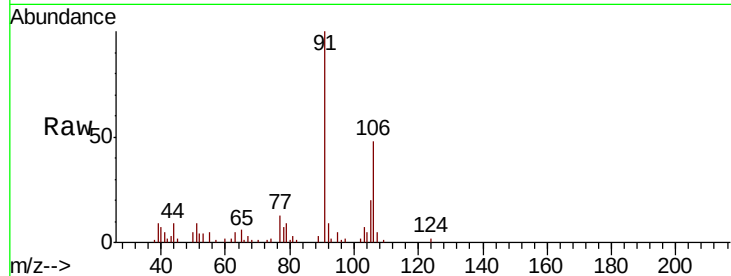




#69
o-Xylene
Concen: 0.510 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053076.D
Acq: 21 Dec 2018 00:49

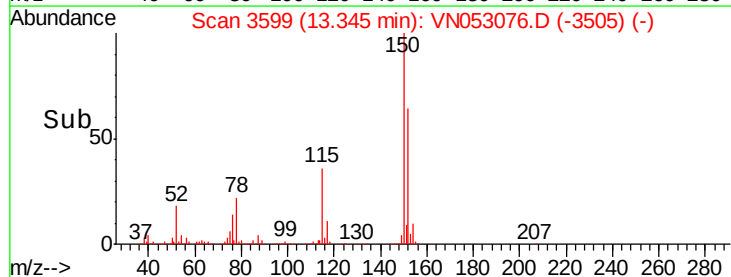
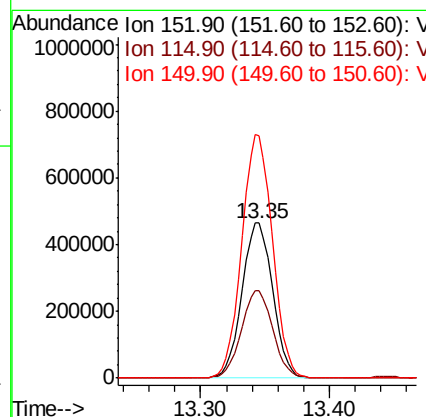
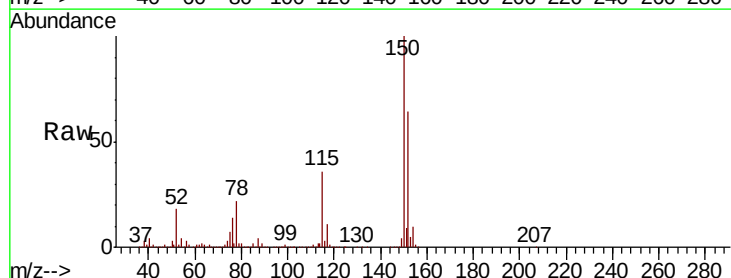
Instrument :
MSVOA_N
ClientSampleId :
T11-MW-5-9.0-122018

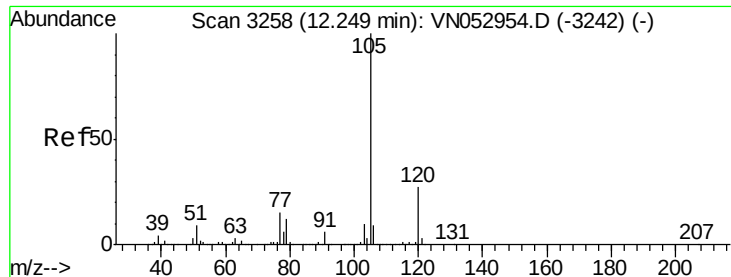
Tot Ion:106 Resp: 12469
Ion Ratio Lower Upper
106 100
91 225.9 106.6 319.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053076.D
Acq: 21 Dec 2018 00:49

Tgt Ion:152 Resp: 768829
Ion Ratio Lower Upper
152 100
115 57.3 28.3 85.0
150 156.9 0.0 347.8





#73

Isopropylbenzene

Concen: 19.712 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

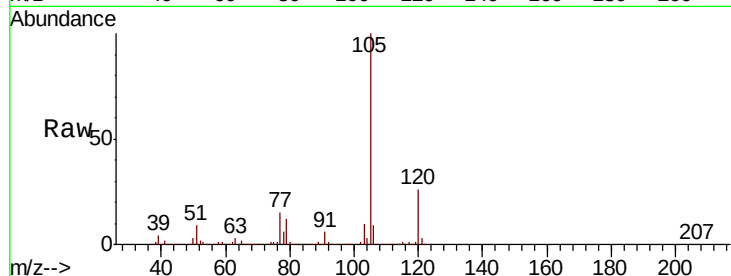
T11-MW-5-9.0-122018

Tot Ion:105 Resp: 1185777

Ion Ratio Lower Upper

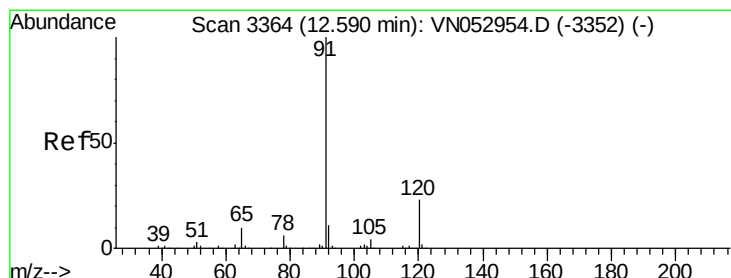
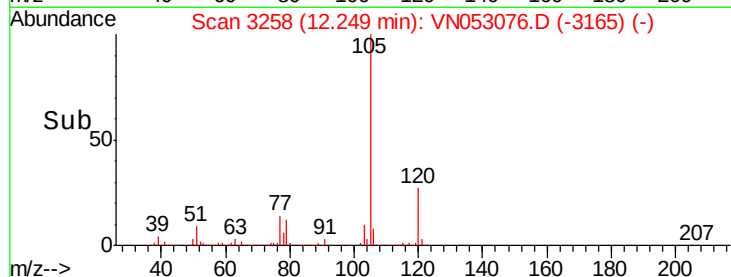
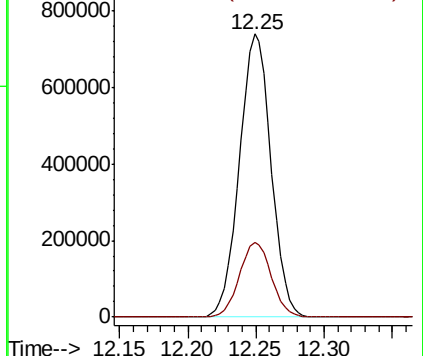
105 100

120 26.6 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 62.304 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053076.D

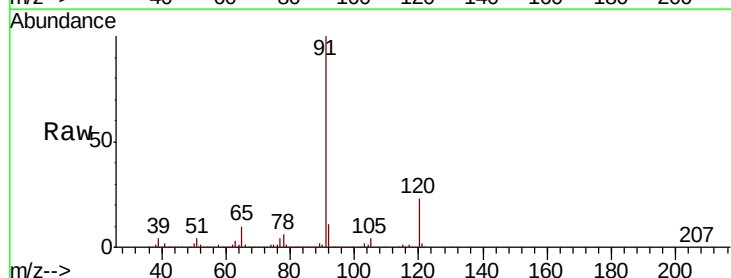
Acq: 21 Dec 2018 00:49

Tgt Ion: 91 Resp: 4268443

Ion Ratio Lower Upper

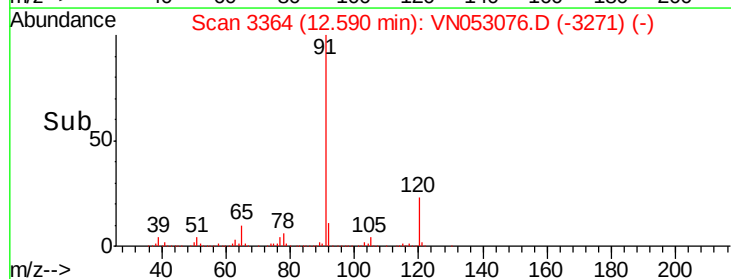
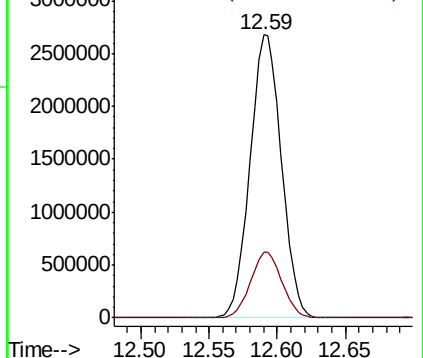
91 100

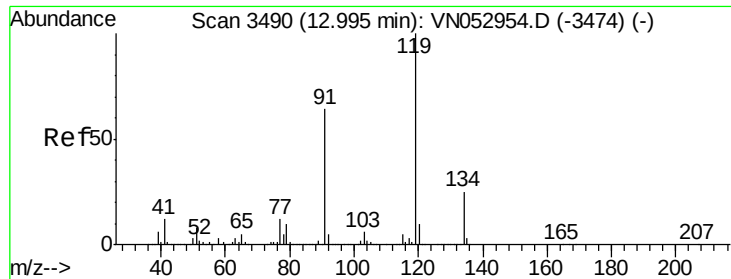
120 23.2 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

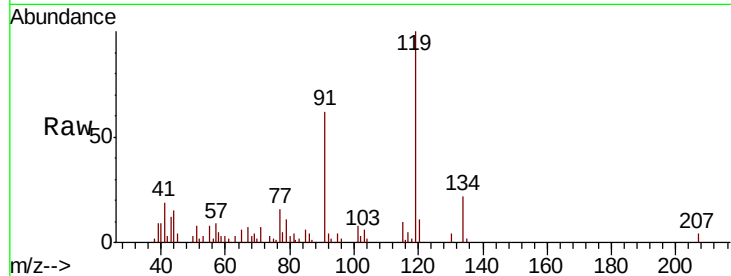




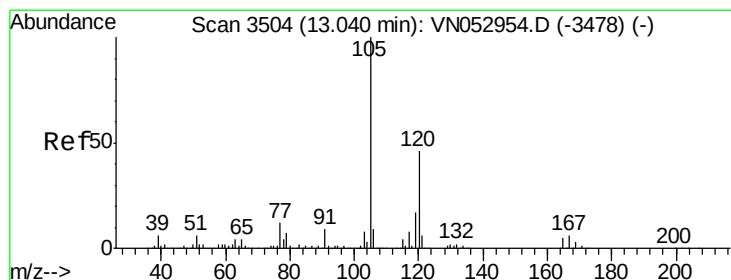
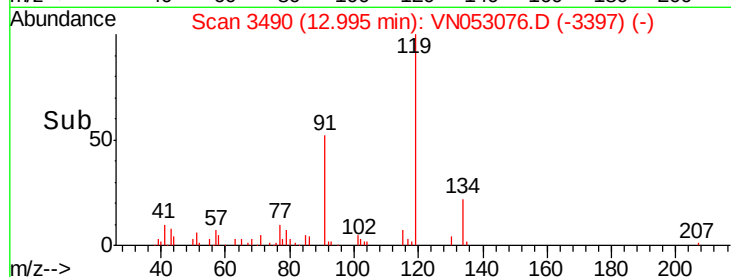
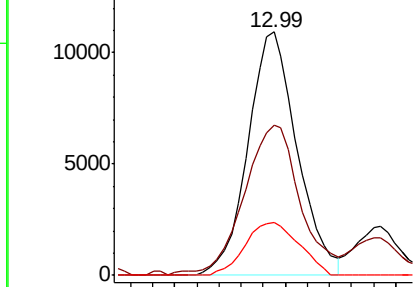
#83
tert-Butylbenzene
Concen: 0.391 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053076.D
Acq: 21 Dec 2018 00:49

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-5-9.0-122018

Tot Ion	Ratio	Lower	Upper
119	100		
91	70.4	31.9	95.5
134	23.7	12.8	38.4

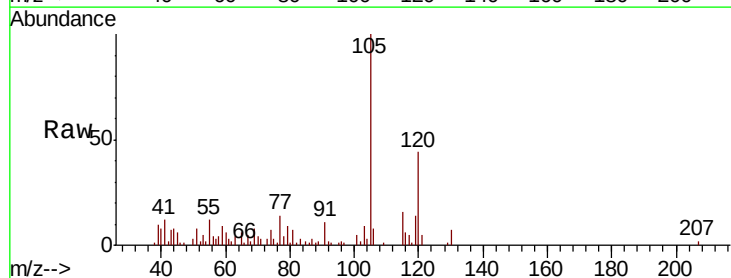


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

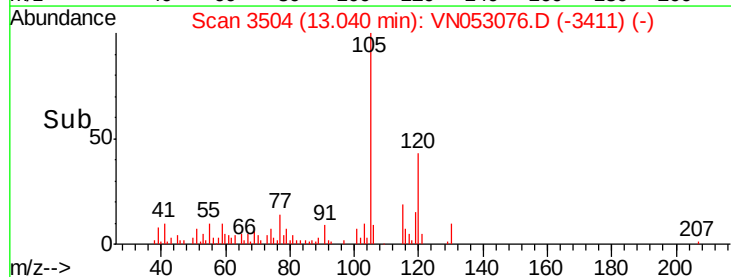
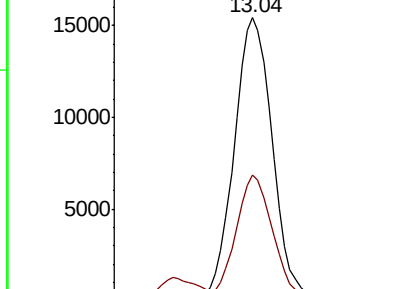


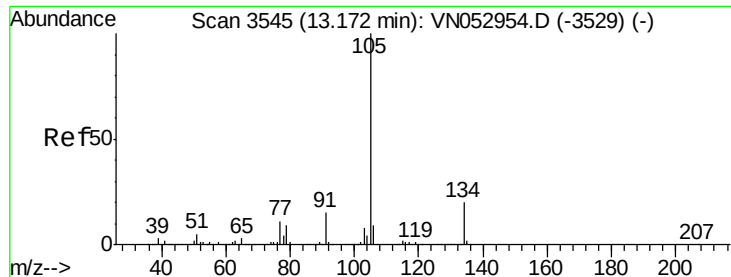
#84
1,2,4-Trimethylbenzene
Concen: 0.505 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053076.D
Acq: 21 Dec 2018 00:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.9	22.9	68.8



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





#85

sec-Butylbenzene

Concen: 3.664 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

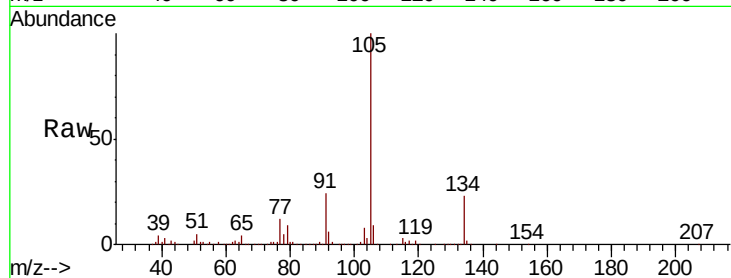
T11-MW-5-9.0-122018

Tot Ion:105 Resp: 214907

Ion Ratio Lower Upper

105 100

134 33.0 10.1 30.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

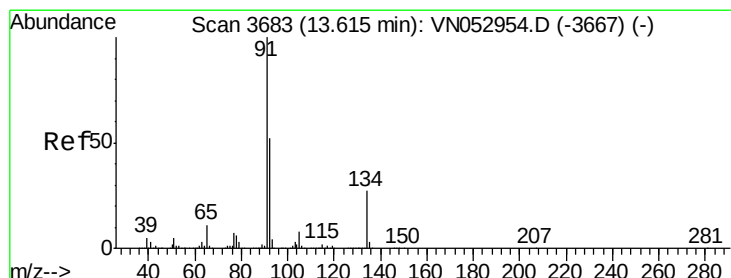
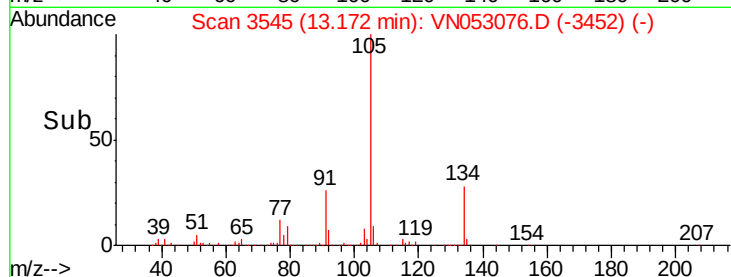
150000

100000

50000

0

Time-->



#89

n-Butylbenzene

Concen: 6.777 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

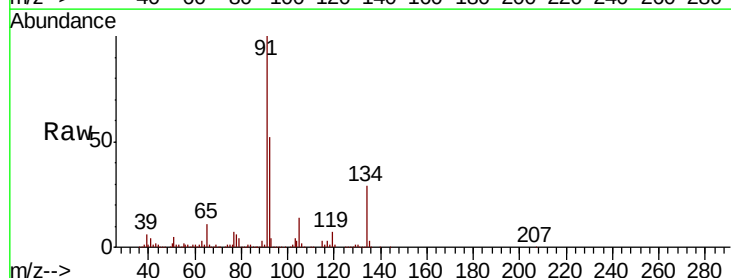
Tgt Ion: 91 Resp: 295497

Ion Ratio Lower Upper

91 100

92 44.7 26.3 78.9

134 0.0 13.3 39.8#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

1000000

800000

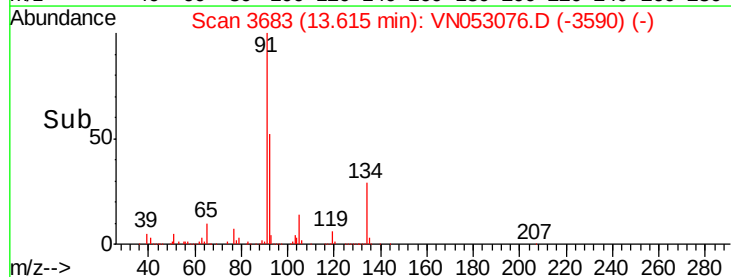
600000

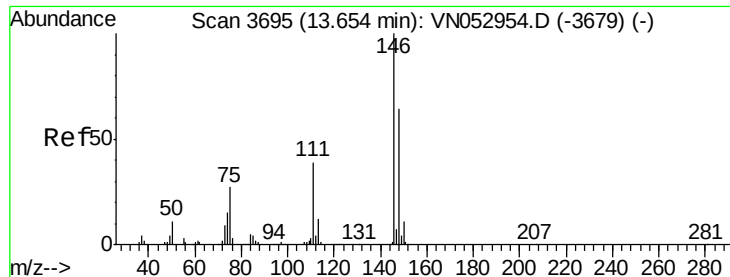
400000

200000

0

Time-->





#91

1,2-Dichlorobenzene

Concen: 0.280 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-5-9.0-122018

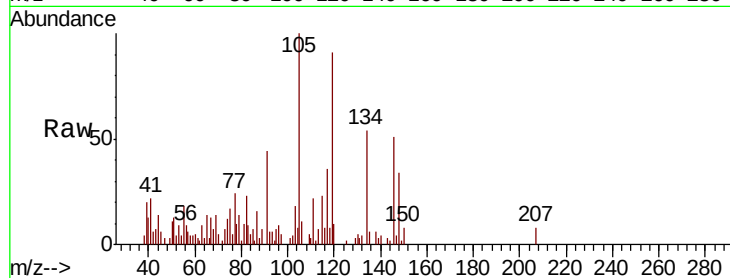
Tot Ion:146 Resp: 7282

Ion Ratio Lower Upper

146 100

111 42.6 19.7 59.0

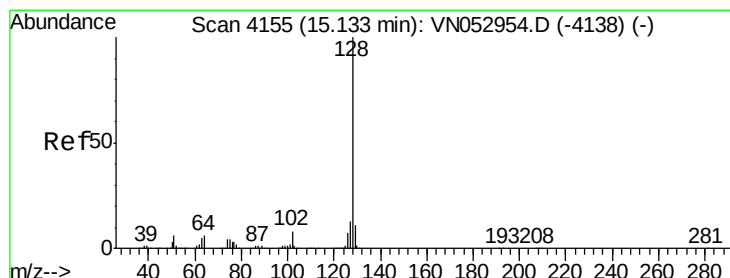
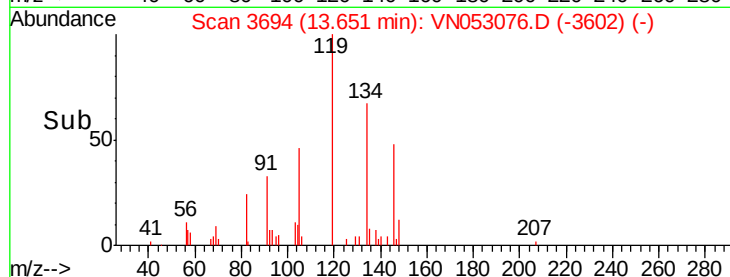
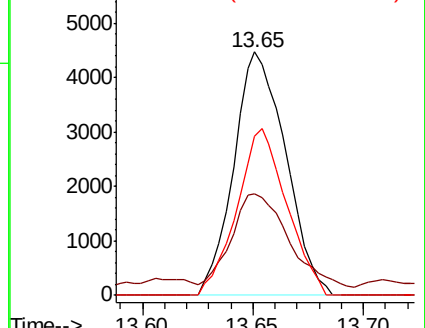
148 65.9 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 1.413 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053076.D

Acq: 21 Dec 2018 00:49

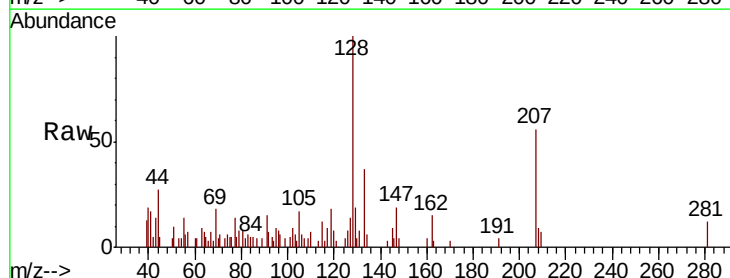
Tgt Ion:128 Resp: 8233

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 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

