

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092019\
 Data File : VN058240.D
 Acq On : 20 Sep 2019 11:20
 Operator : JC/SP
 Sample : K4949-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 390918737.1-VOA

Quant Time: Sep 23 15:12:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 12:14:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	74504	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	440432	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	383740	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.01	65	203619	30.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.00%
60) 4-Bromofluorobenzene	12.40	95	186158	28.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.50%
63) Toluene-d8	10.08	98	541982	29.43	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.10%

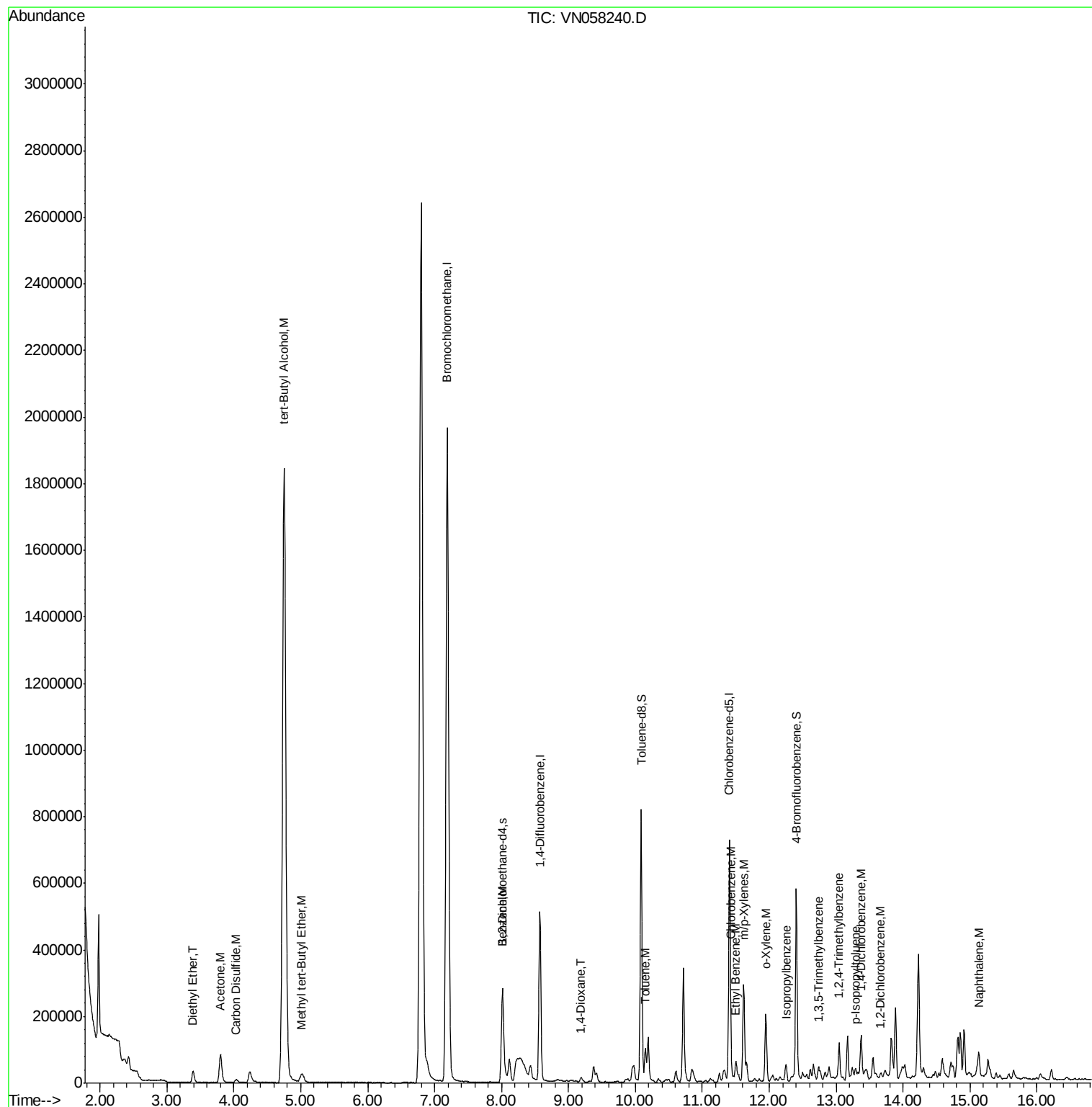
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Diethyl Ether	3.39	74	17064	6.375	ug/l	97
15) Acetone	3.80	58	15715	25.116	ug/l	96
16) Carbon Disulfide	4.03	76	10633	1.159	ug/l	97
23) tert-Butyl Alcohol	4.75	59	3357360m	4666.236	ug/l	
24) Methyl tert-Butyl Ether	5.01	73	38057	2.520	ug/l #	100
34) Benzene	8.03	78	63414	3.089	ug/l #	45
45) 1,4-Dioxane	9.19	88	7172	82.129	ug/l	97
62) Toluene	10.15	91	69385	3.265	ug/l	100
64) Chlorobenzene	11.43	112	10420	0.791	ug/l	91
66) Ethyl Benzene	11.51	91	15445	0.666	ug/l	90
67) m/p-Xylenes	11.62	106	88869	10.040	ug/l	98
68) o-Xylene	11.95	106	50859	5.865	ug/l	99
70) Isopropylbenzene	12.25	105	20987	0.915	ug/l	95
76) 1,3,5-Trimethylbenzene	12.74	105	16288	0.834	ug/l	97
80) 1,2,4-Trimethylbenzene	13.05	105	57078	2.935	ug/l	98
82) p-Isopropyltoluene	13.29	119	9523	0.471	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	36617	3.646	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	3115	0.315	ug/l	81
91) Naphthalene	15.13	128	60297	3.623	ug/l	98

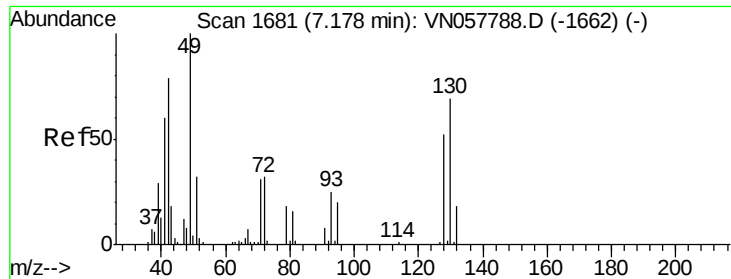
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092019\
Data File : VN058240.D
Acq On : 20 Sep 2019 11:20
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Misc : 5.00mL/MSVOA N/WATER
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390918737.1-VOA

Quant Time: Sep 23 15:12:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Sep 09 12:14:07 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

390918737.1-VOA

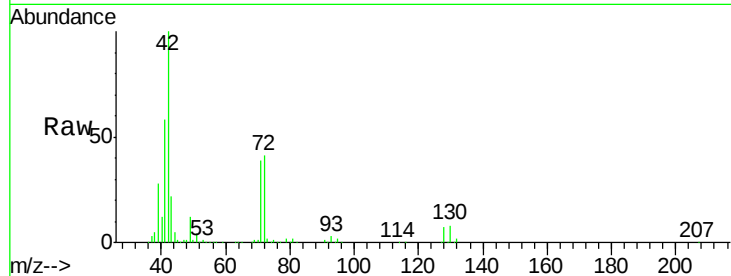
Tot Ion:128 Resp: 74504

Ion Ratio Lower Upper

128 100

49 190.2 0.0 486.5

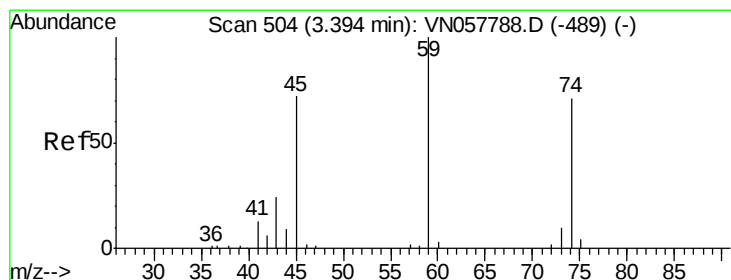
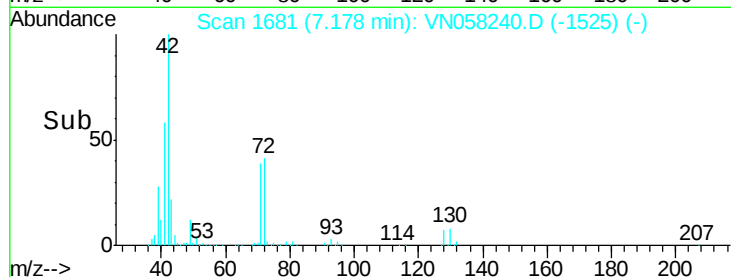
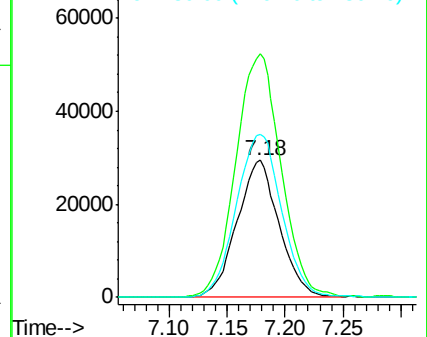
130 127.4 0.0 324.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#8

Diethyl Ether

Concen: 6.375 ug/l

RT: 3.39 min Scan# 502

Delta R.T. -0.01 min

Lab File: VN058240.D

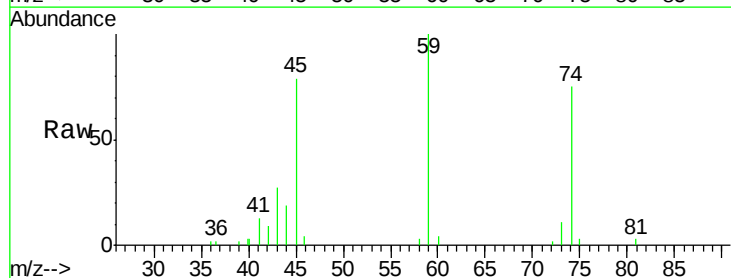
Acq: 20 Sep 2019 11:20

Tgt Ion: 74 Resp: 17064

Ion Ratio Lower Upper

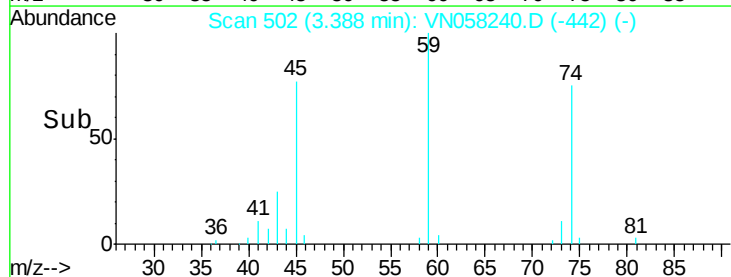
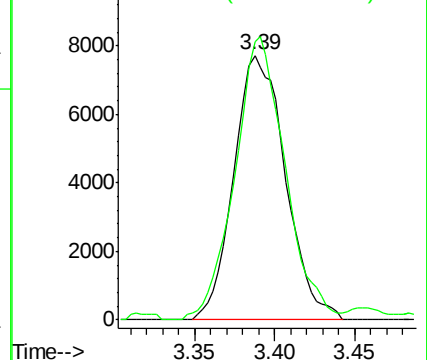
74 100

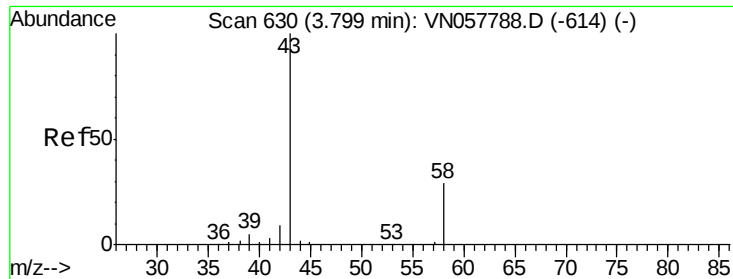
45 104.3 20.3 182.5



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#15

Acetone

Concen: 25.116 ug/l

RT: 3.80 min Scan# 629

Delta R.T. -0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

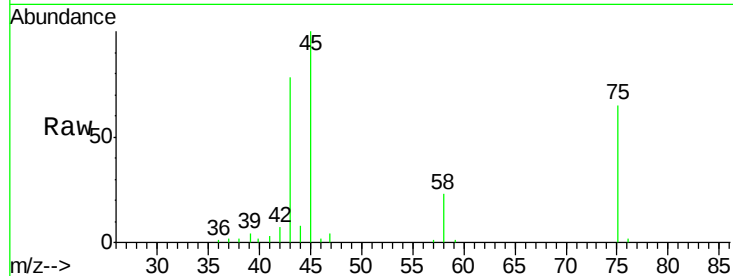
390918737.1-VOA

Tot Ion: 58 Resp: 15715

Ion Ratio Lower Upper

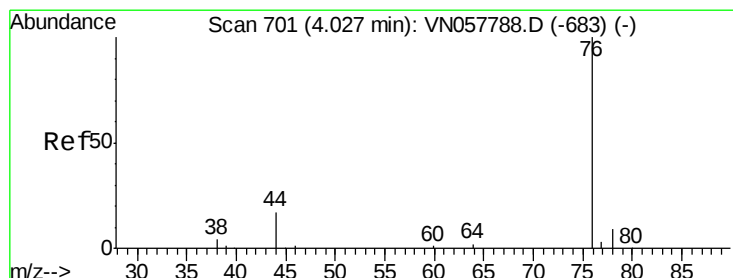
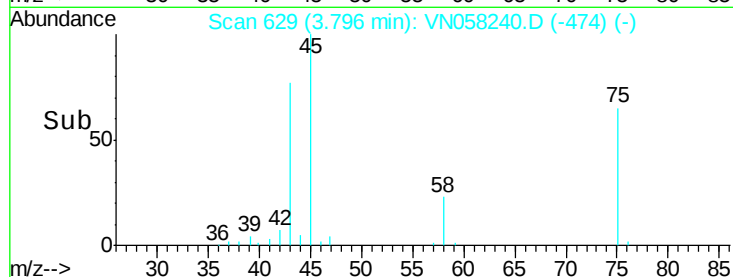
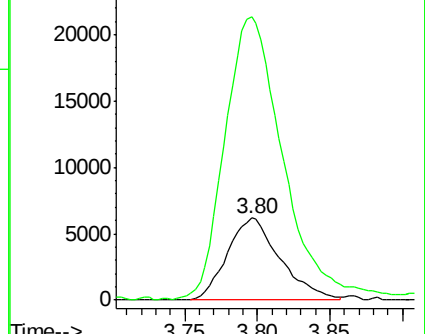
58 100

43 337.5 277.7 416.5



Abundance Ion 58.00 (57.70 to 58.70): VN058240.D (-474) (-)

Ion 43.00 (42.70 to 43.70): VN058240.D (-474) (-)



#16

Carbon Disulfide

Concen: 1.159 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN058240.D

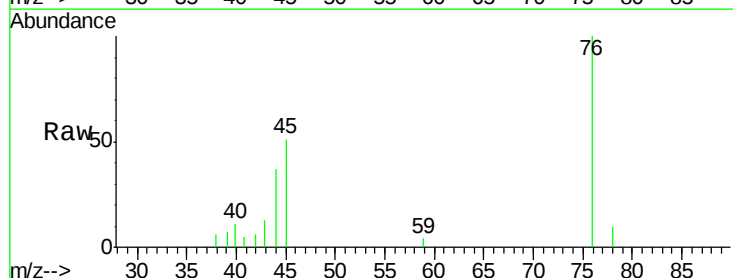
Acq: 20 Sep 2019 11:20

Tgt Ion: 76 Resp: 10633

Ion Ratio Lower Upper

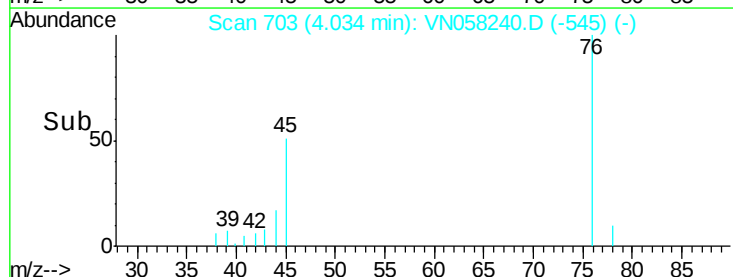
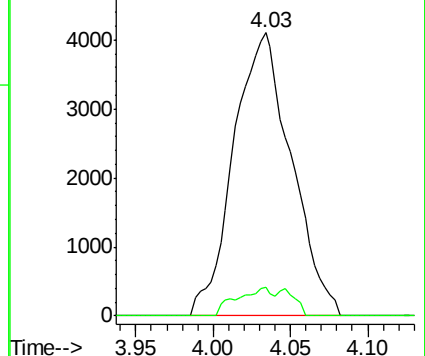
76 100

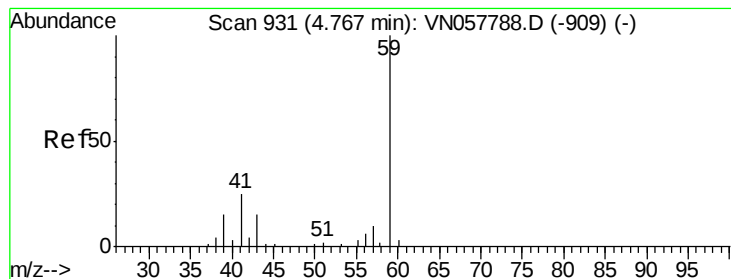
78 10.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN058240.D (-545) (-)

Ion 78.00 (77.70 to 78.70): VN058240.D (-545) (-)





#23

tert-Butyl Alcohol

Concen: 4666.236 ug/l m

RT: 4.75 min Scan# 926

Delta R.T. -0.02 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

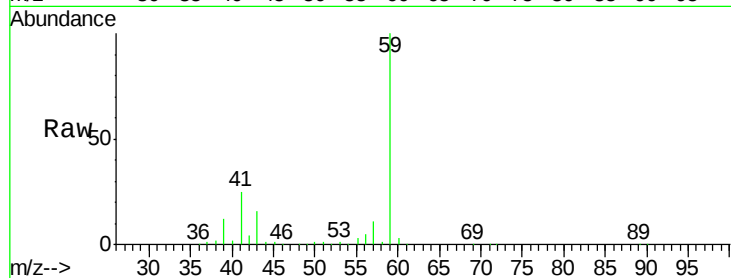
390918737.1-VOA

Tot Ion: 59 Resp: 3357360

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN057788.D (-909) (-)

Ion 52.00 (51.70 to 52.70): VN057788.D (-909) (-)

4.75

1000000

800000

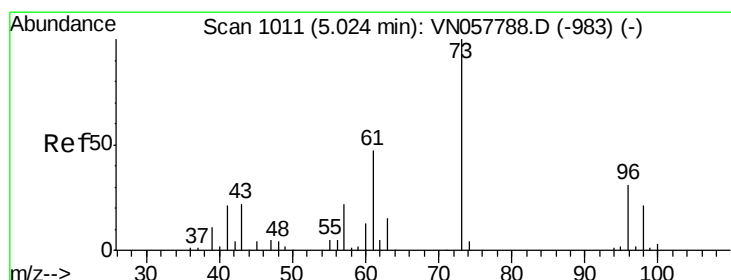
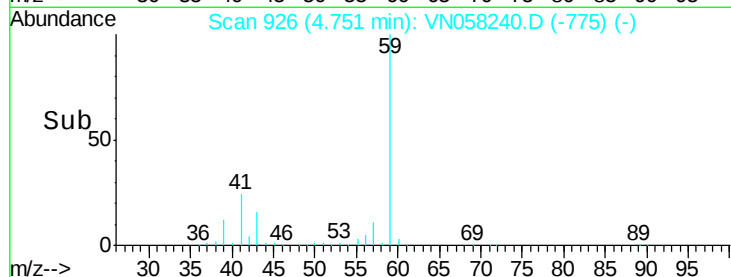
600000

400000

200000

0

Time-->



#24

Methyl tert-Butyl Ether

Concen: 2.520 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. -0.01 min

Lab File: VN058240.D

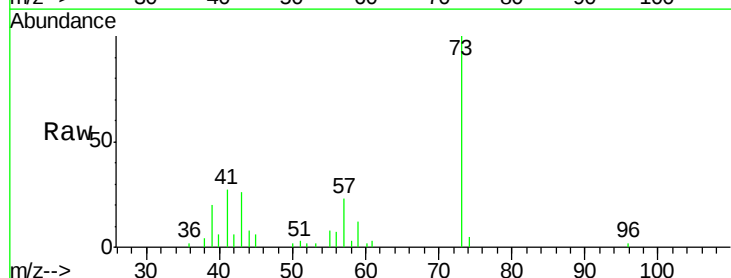
Acq: 20 Sep 2019 11:20

Tgt Ion: 73 Resp: 38057

Ion Ratio Lower Upper

73 100

43 17.2 0.0 0.0#



Abundance Ion 73.00 (72.70 to 73.70): VN057788.D (-983) (-)

Ion 43.00 (42.70 to 43.70): VN057788.D (-983) (-)

5.01

12000

10000

8000

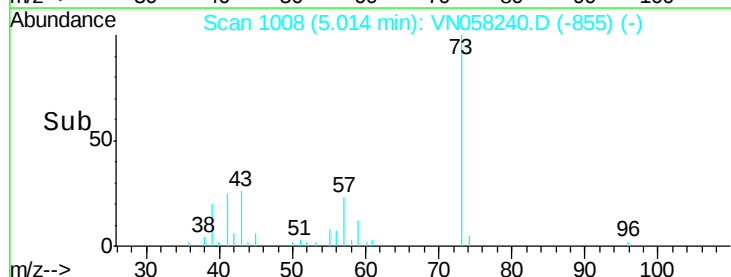
6000

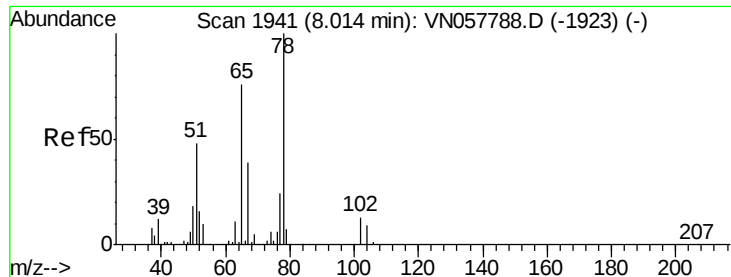
4000

2000

0

Time-->

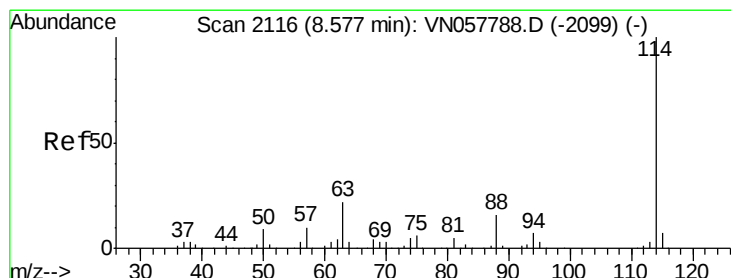
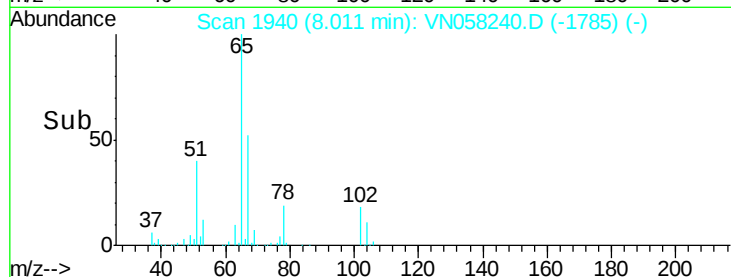
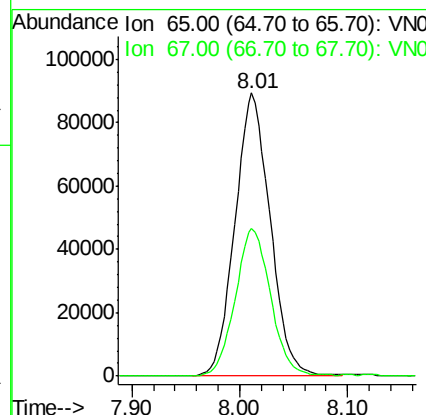
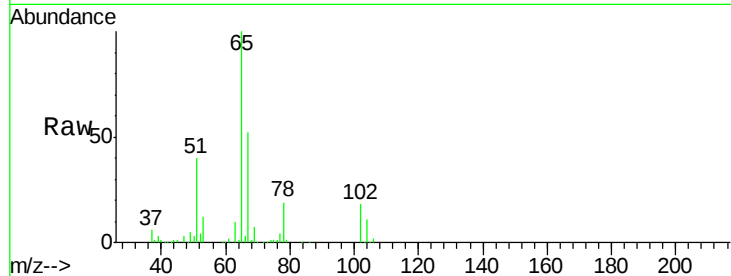




#27
 1,2-Dichloroethane-d4
 Concen: 30.897 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058240.D
 Acq: 20 Sep 2019 11:20

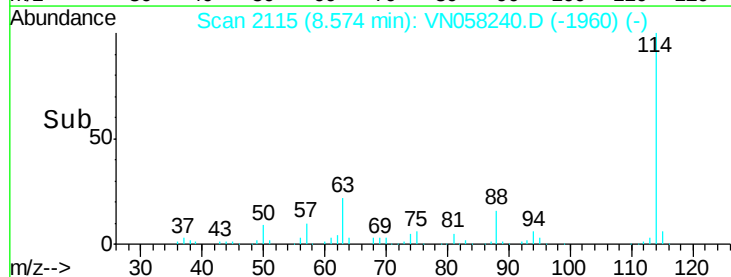
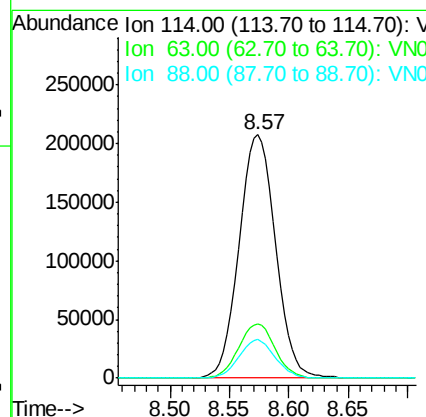
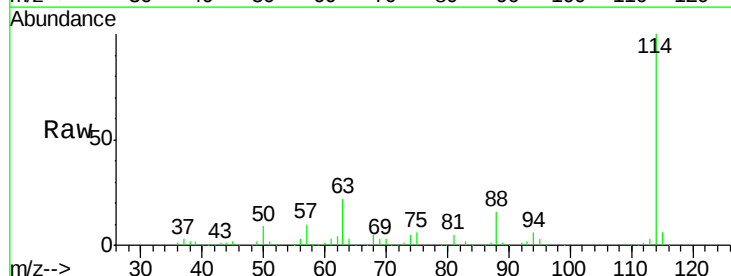
Instrument :
 MSVOA_N
 ClientSampleId :
 390918737.1-VOA

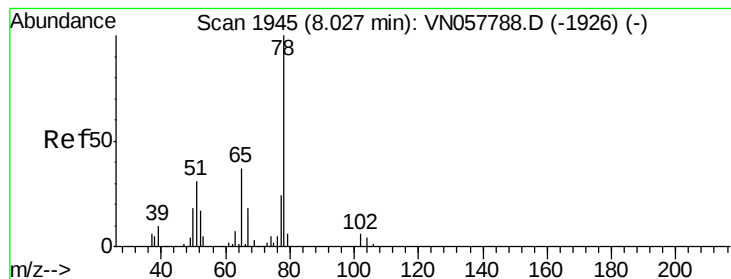
Tot Ion: 65 Resp: 203619
 Ion Ratio Lower Upper
 65 100
 67 52.1 40.9 61.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058240.D
 Acq: 20 Sep 2019 11:20

Tgt Ion: 114 Resp: 440432
 Ion Ratio Lower Upper
 114 100
 63 22.3 18.0 27.0
 88 15.6 12.6 19.0





#34

Benzene

Concen: 3.089 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

390918737.1-VOA

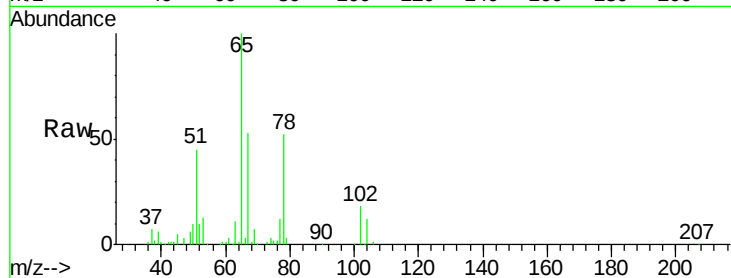
Tot Ion: 78 Resp: 63414

Ion Ratio Lower Upper

78 100

77 23.3 19.2 28.8

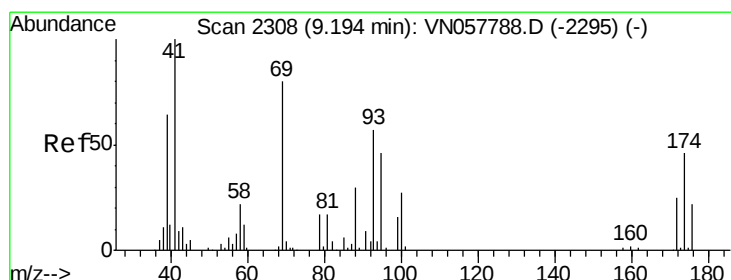
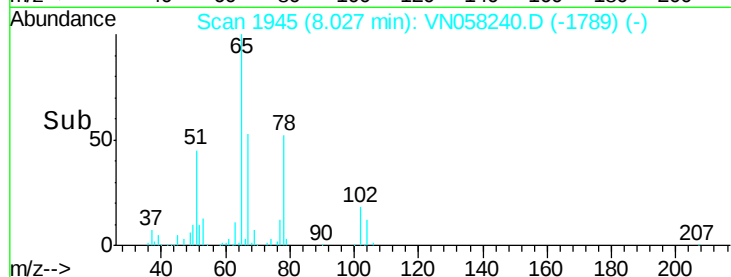
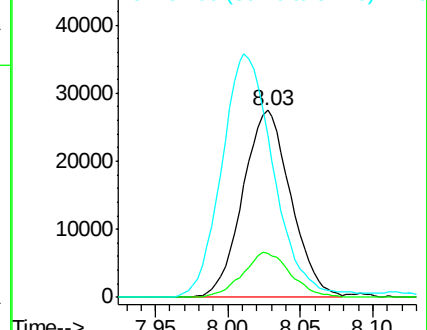
51 83.7 24.9 37.3#



Abundance Ion 78.10 (77.80 to 78.80): VN058240.D (-1789) (-)

Ion 77.00 (76.70 to 77.70): VN058240.D (-1789) (-)

Ion 51.00 (50.70 to 51.70): VN058240.D (-1789) (-)



#45

1,4-Dioxane

Concen: 82.129 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. -0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

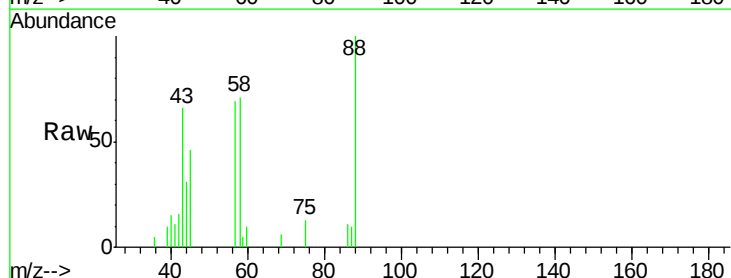
Tgt Ion: 88 Resp: 7172

Ion Ratio Lower Upper

88 100

43 38.6 28.2 42.4

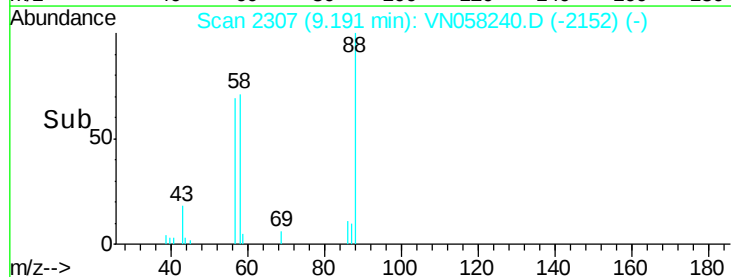
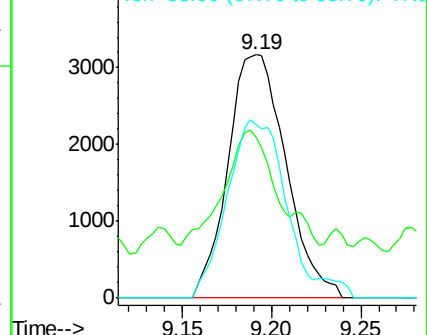
58 72.2 58.5 87.7

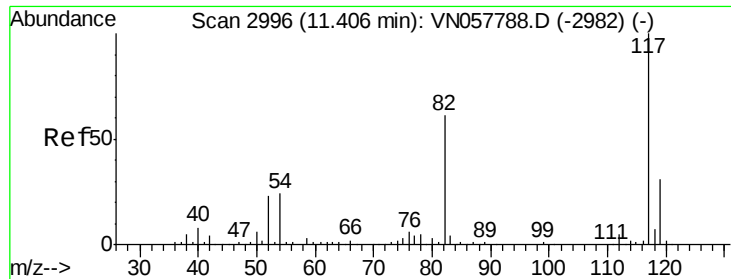


Abundance Ion 88.00 (87.70 to 88.70): VN058240.D (-2152) (-)

Ion 43.00 (42.70 to 43.70): VN058240.D (-2152) (-)

Ion 58.00 (57.70 to 58.70): VN058240.D (-2152) (-)

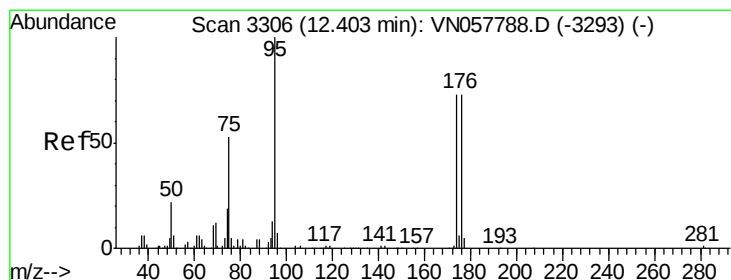
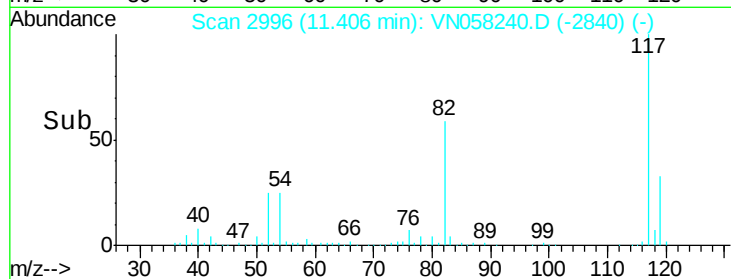
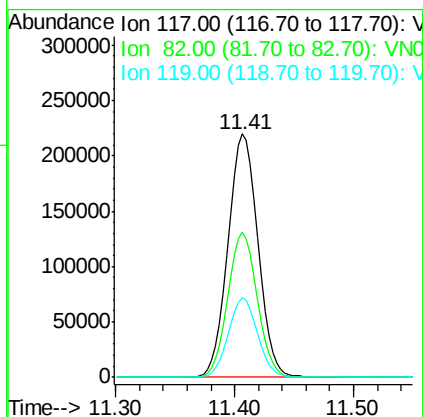
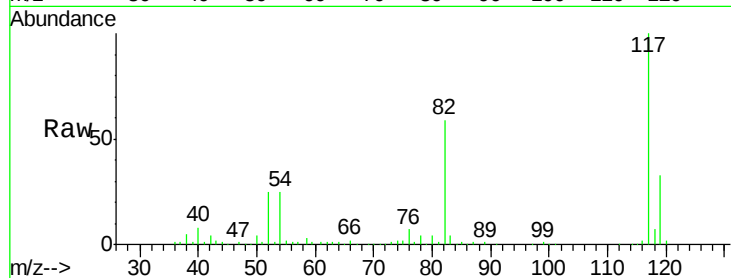




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058240.D
Acq: 20 Sep 2019 11:20

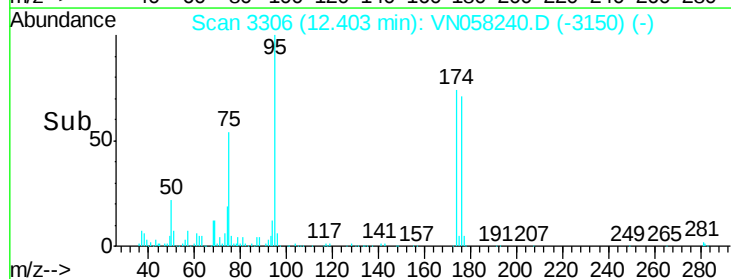
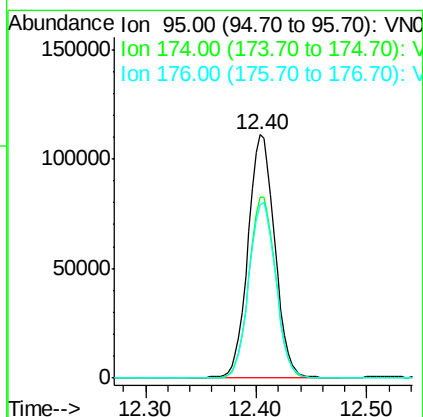
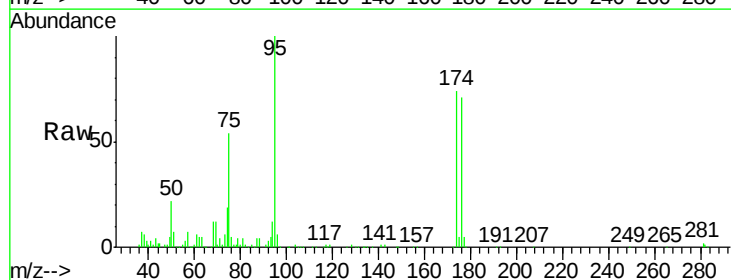
Instrument :
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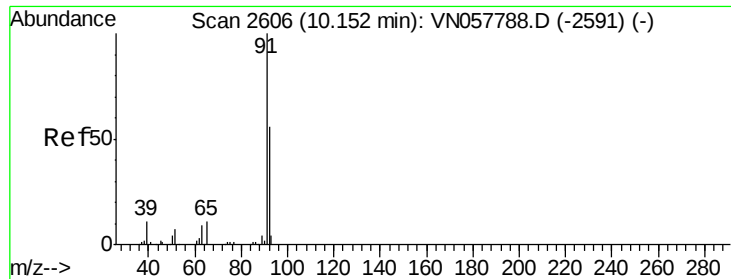
Tot Ion:117 Resp: 383740
Ion Ratio Lower Upper
117 100
82 58.5 47.6 71.4
119 31.8 25.4 38.2



#60
4-Bromofluorobenzene
Concen: 28.350 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058240.D
Acq: 20 Sep 2019 11:20

Tgt Ion: 95 Resp: 186158
Ion Ratio Lower Upper
95 100
174 74.5 59.4 89.0
176 72.4 57.4 86.0





#62

Toluene

Concen: 3.265 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

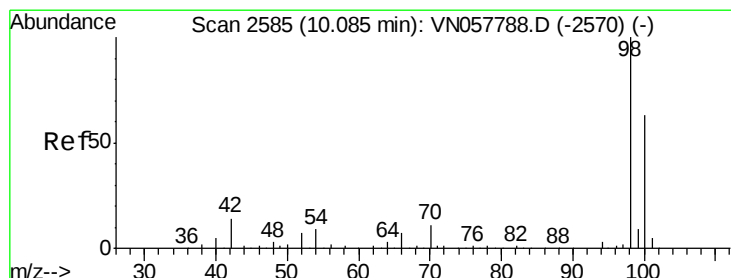
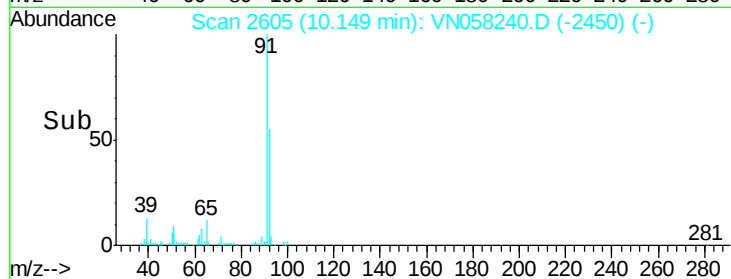
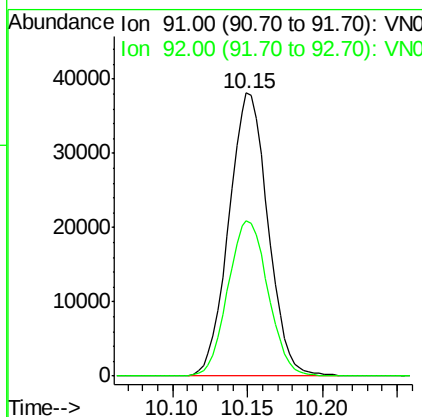
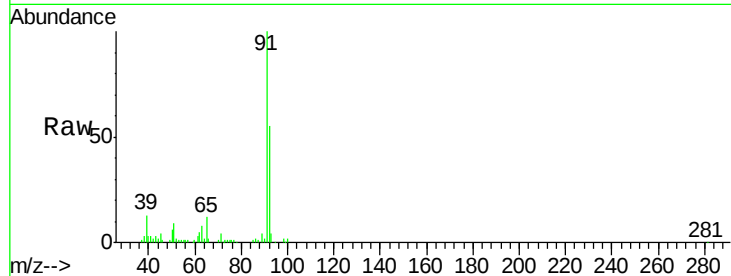
390918737.1-VOA

Tot Ion: 91 Resp: 69385

Ion Ratio Lower Upper

91 100

92 56.2 44.9 67.3



#63

Toluene-d8

Concen: 29.426 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058240.D

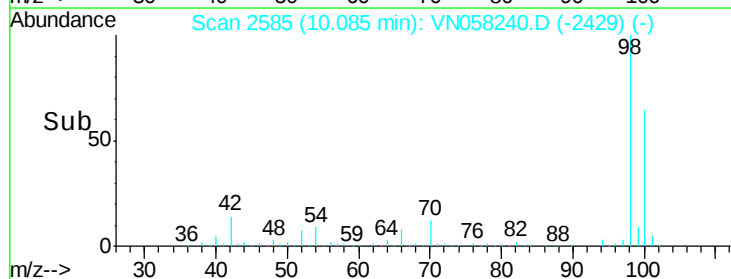
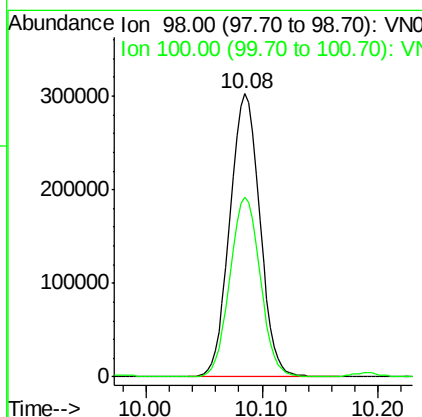
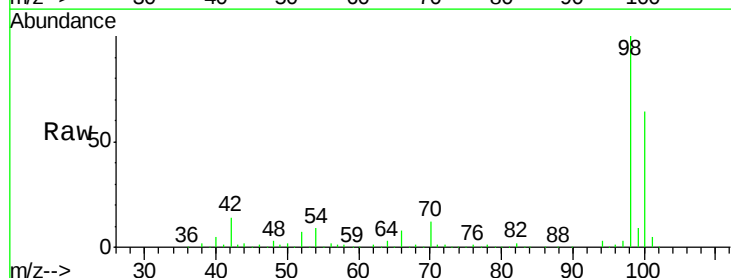
Acq: 20 Sep 2019 11:20

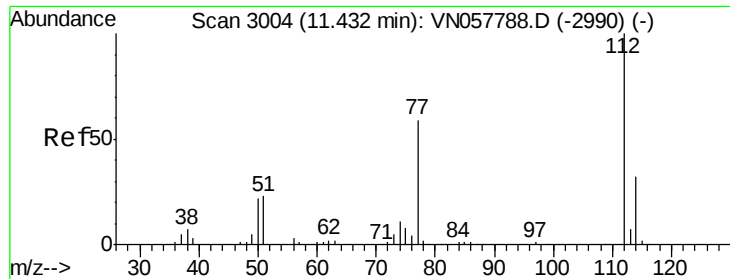
Tgt Ion: 98 Resp: 541982

Ion Ratio Lower Upper

98 100

100 64.1 50.3 75.5

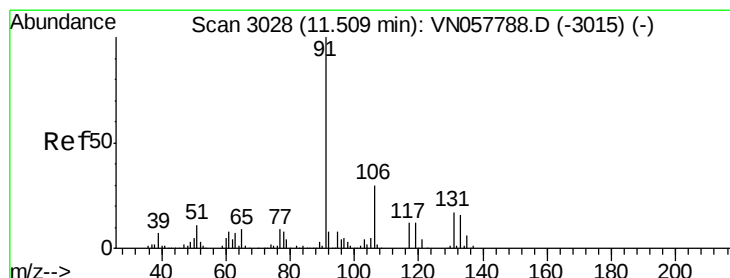
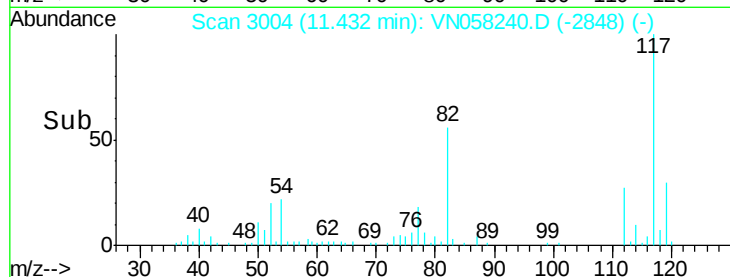
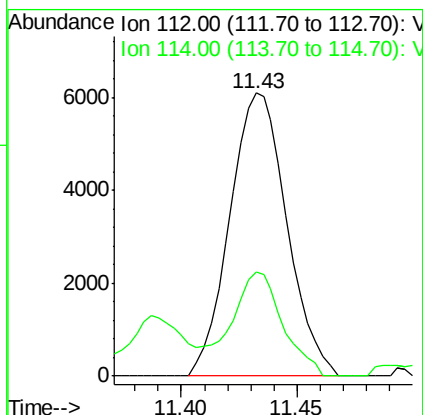
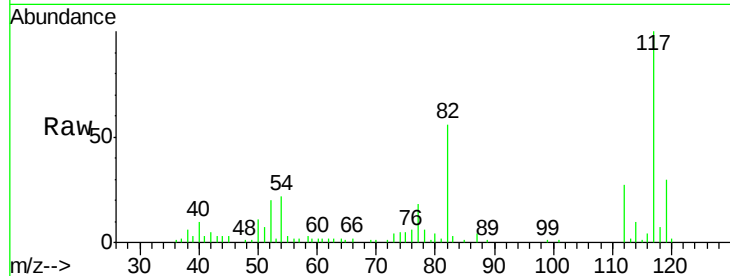




#64
Chlorobenzene
Concen: 0.791 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058240.D
Acq: 20 Sep 2019 11:20

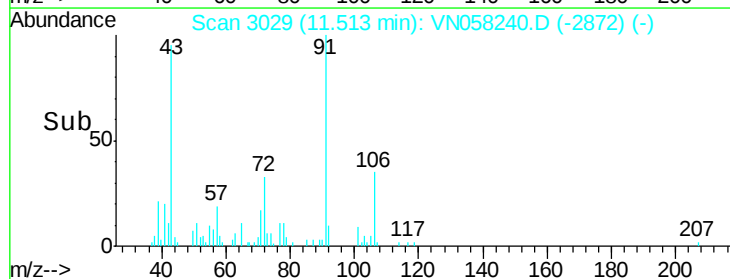
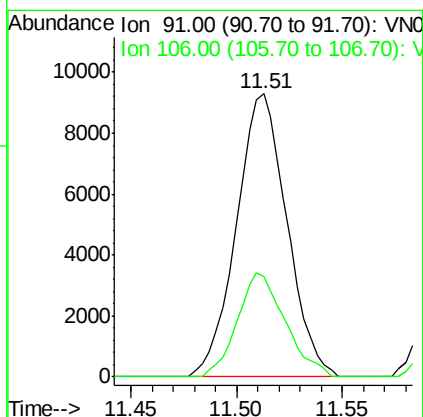
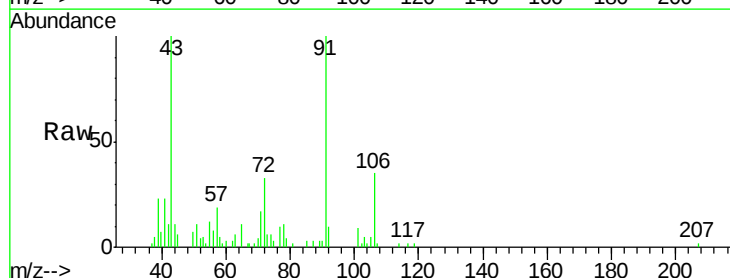
Instrument :
MSVOA_N
ClientSampleId :
390918737.1-VOA

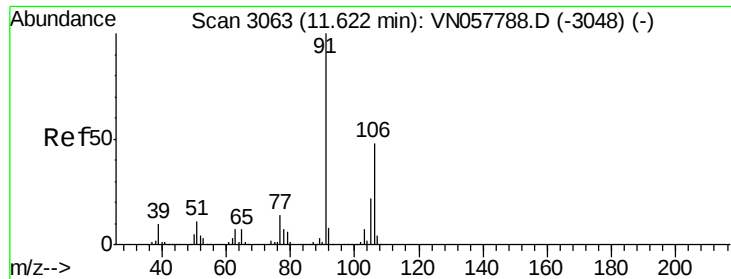
Tot Ion:112 Resp: 10420
Ion Ratio Lower Upper
112 100
114 36.8 25.4 38.0



#66
Ethyl Benzene
Concen: 0.666 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058240.D
Acq: 20 Sep 2019 11:20

Tgt Ion: 91 Resp: 15445
Ion Ratio Lower Upper
91 100
106 35.4 24.0 36.0

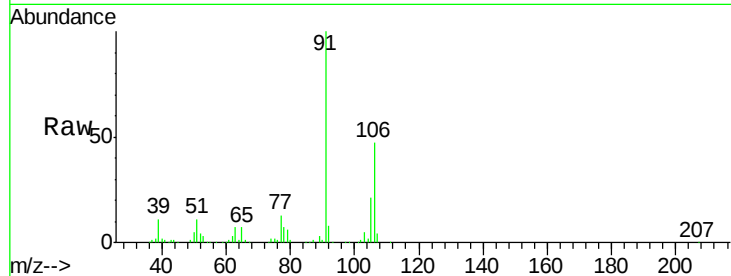




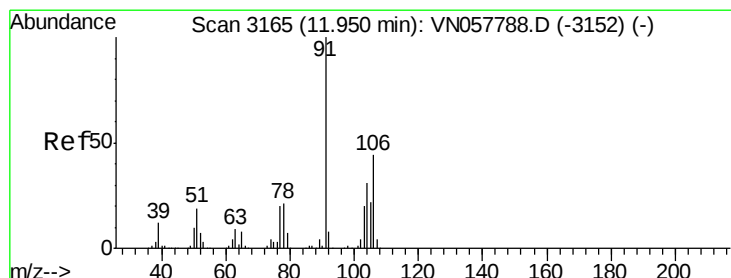
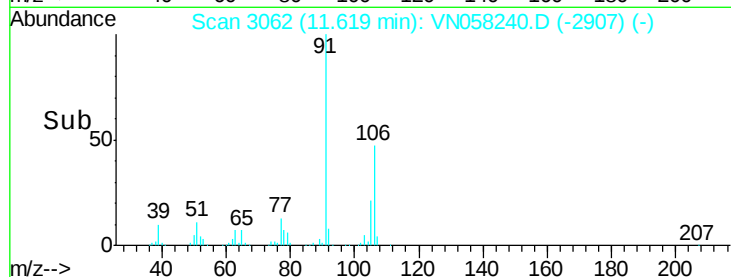
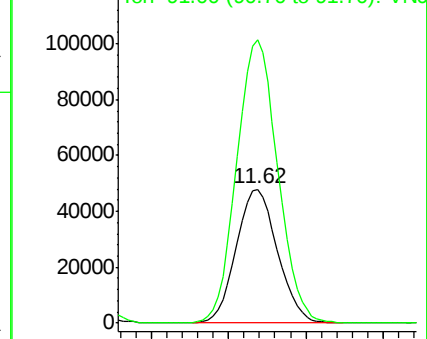
#67
m/p-Xylenes
Concen: 10.040 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN058240.D
Acq: 20 Sep 2019 11:20

Instrument :
MSVOA_N
ClientSampleId :
390918737.1-VOA

Tot Ion:106 Resp: 88869
Ion Ratio Lower Upper
106 100
91 210.3 166.1 249.1

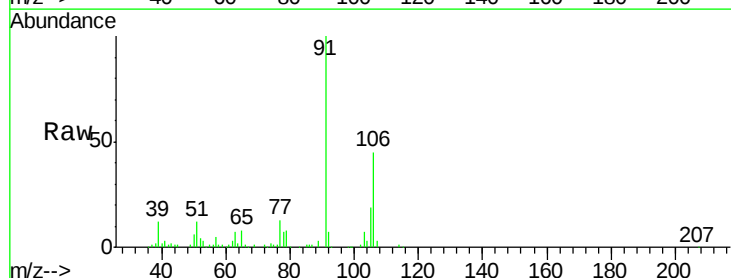


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

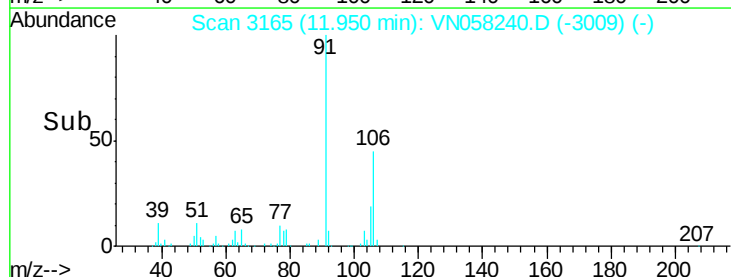
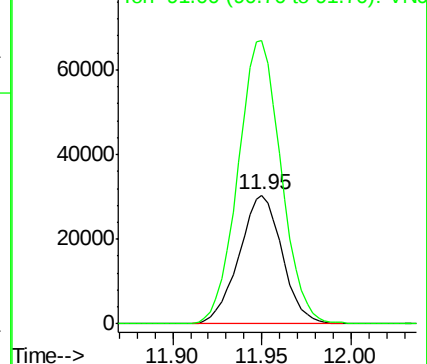


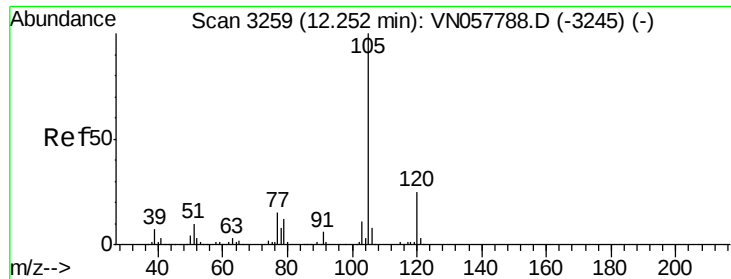
#68
o-Xylene
Concen: 5.865 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058240.D
Acq: 20 Sep 2019 11:20

Tgt Ion:106 Resp: 50859
Ion Ratio Lower Upper
106 100
91 220.8 111.5 334.4



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





#70

Isopropylbenzene

Concen: 0.915 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

Instrument :

MSVOA_N

ClientSampled :

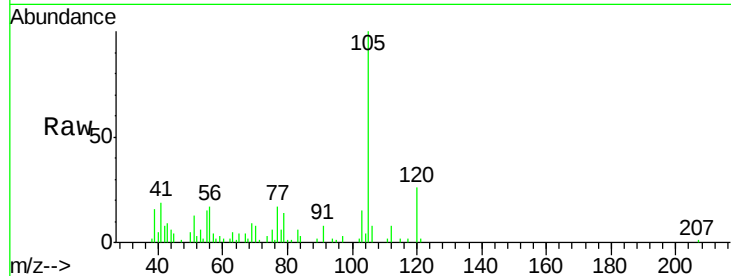
390918737.1-VOA

Tot Ion:105 Resp: 20987

Ion Ratio Lower Upper

105 100

120 27.6 17.6 32.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

15000

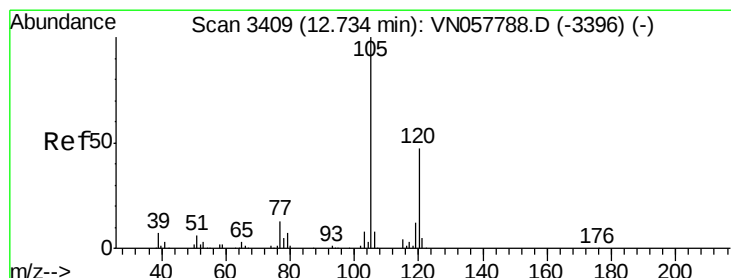
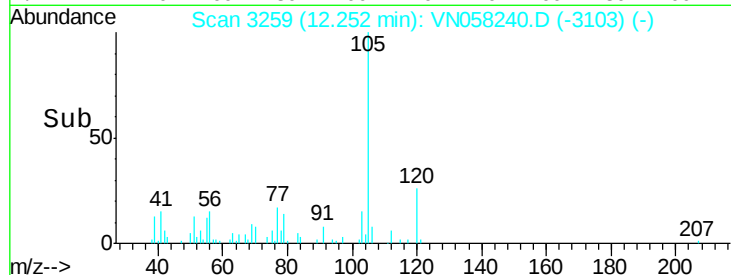
10000

5000

0

Time-->

12.20 12.25 12.30



#76

1,3,5-Trimethylbenzene

Concen: 0.834 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058240.D

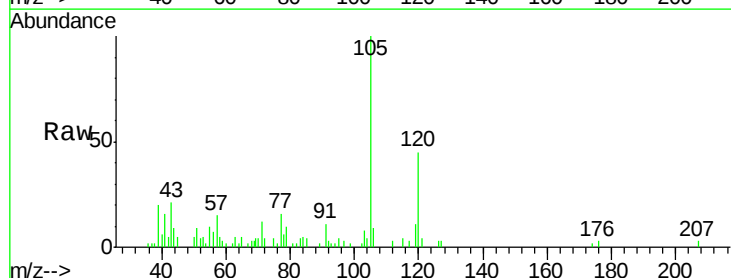
Acq: 20 Sep 2019 11:20

Tgt Ion:105 Resp: 16288

Ion Ratio Lower Upper

105 100

120 49.4 0.0 94.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.74

12000

10000

8000

6000

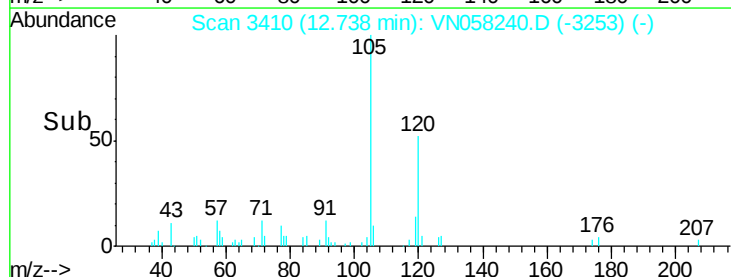
4000

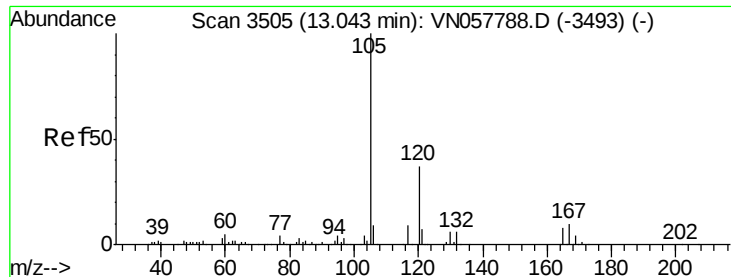
2000

0

Time-->

12.70 12.75





#80

1,2,4-Trimethylbenzene

Concen: 2.935 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

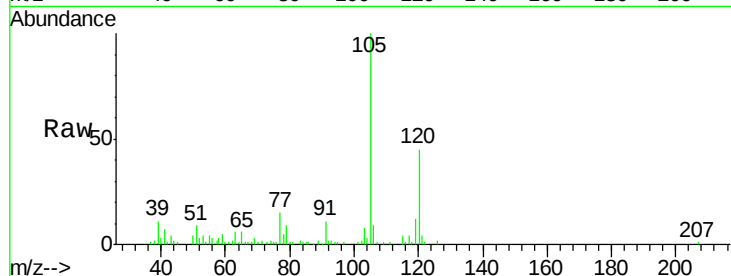
390918737.1-VOA

Tot Ion:105 Resp: 57078

Ion Ratio Lower Upper

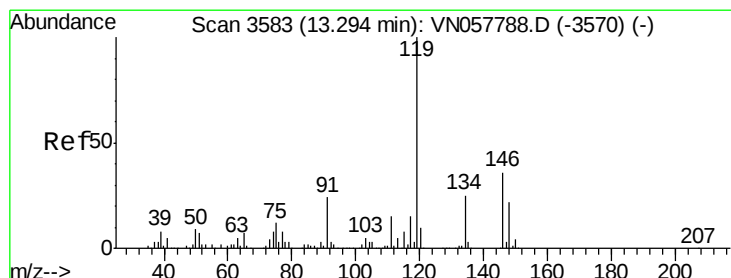
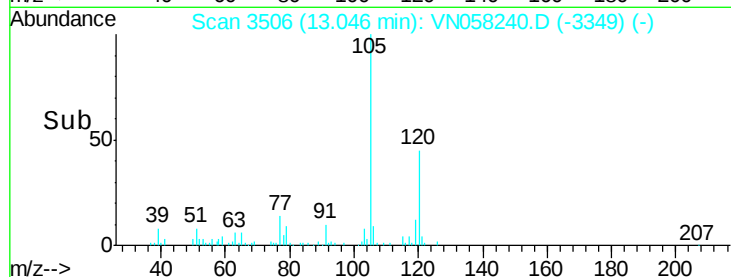
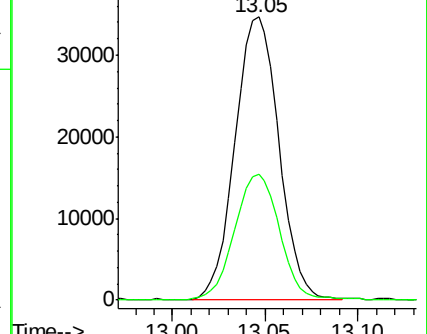
105 100

120 45.5 0.0 87.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

p-Isopropyltoluene

Concen: 0.471 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

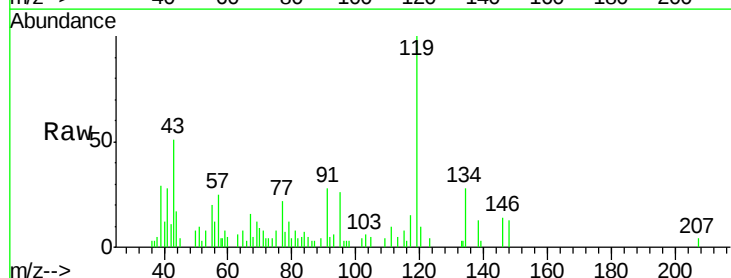
Tgt Ion:119 Resp: 9523

Ion Ratio Lower Upper

119 100

134 26.0 0.0 50.4

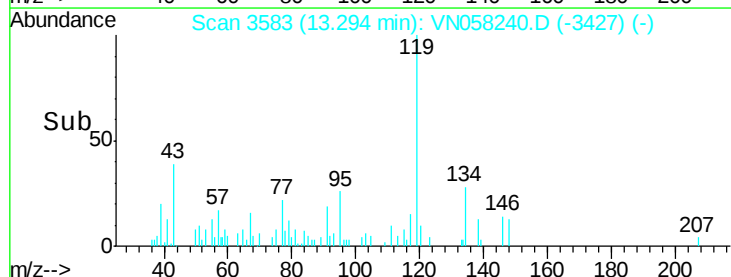
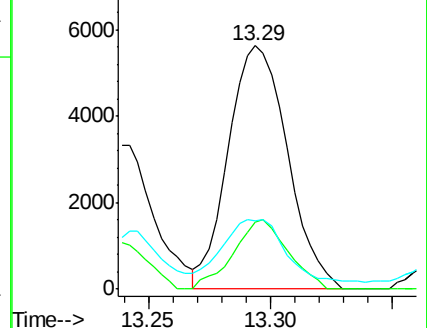
91 25.7 0.0 48.8

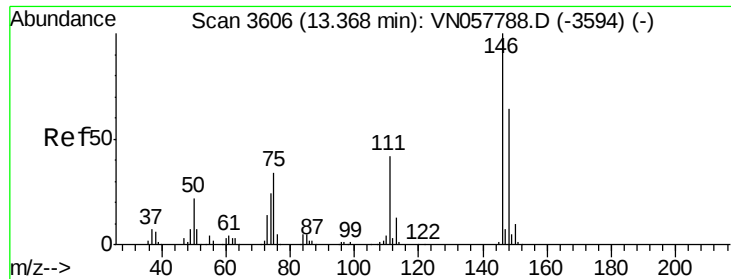


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#84

1,4-Dichlorobenzene

Concen: 3.646 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

390918737.1-VOA

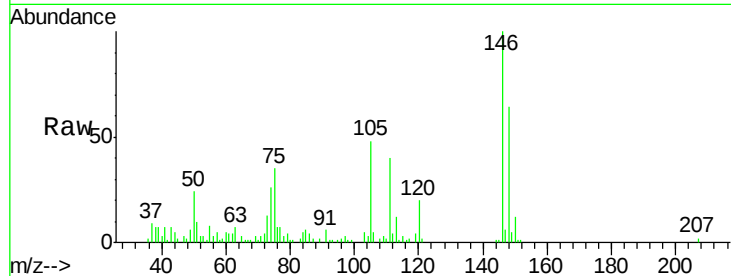
Tot Ion:146 Resp: 36617

Ion Ratio Lower Upper

146 100

111 39.3 21.1 63.4

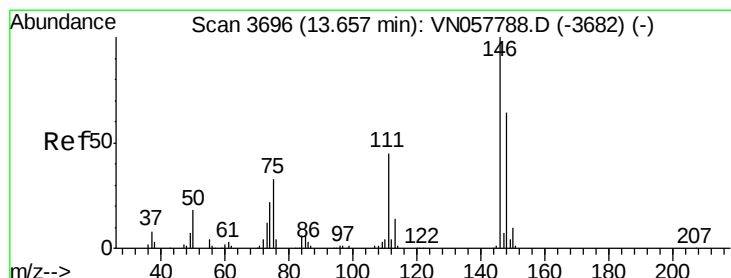
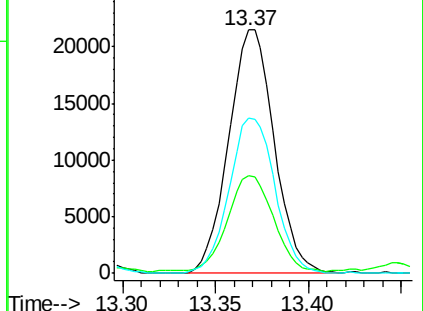
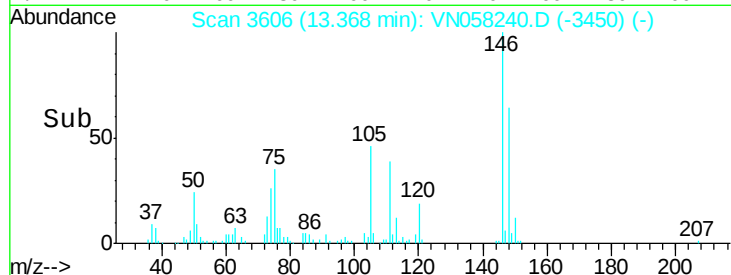
148 64.1 31.7 95.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#87

1,2-Dichlorobenzene

Concen: 0.315 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

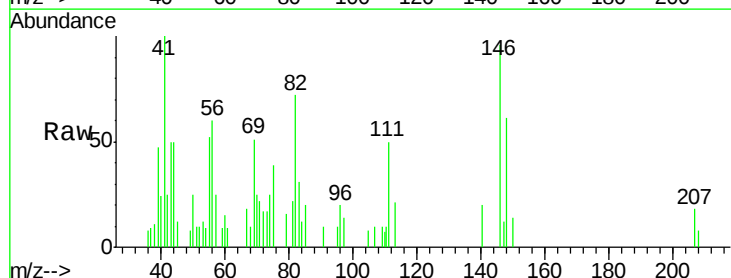
Tgt Ion:146 Resp: 3115

Ion Ratio Lower Upper

146 100

111 62.7 22.2 66.6

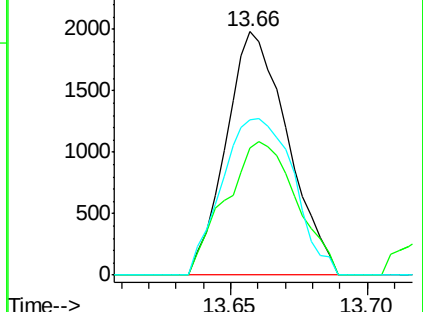
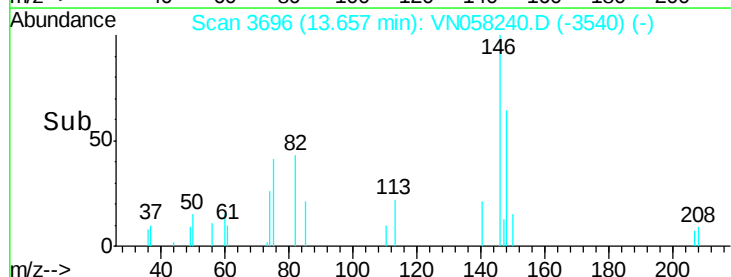
148 74.7 32.1 96.3

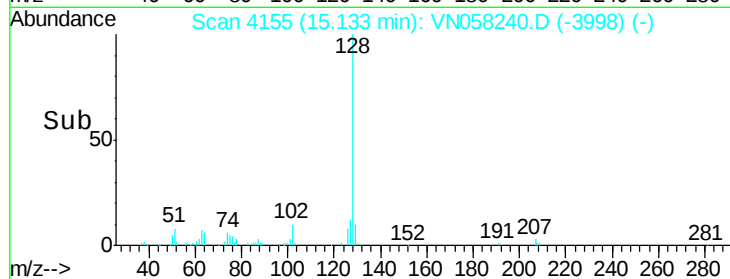
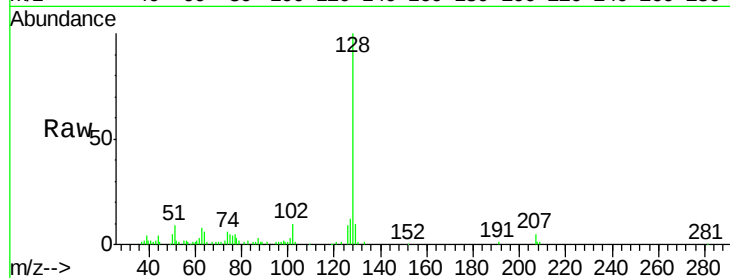
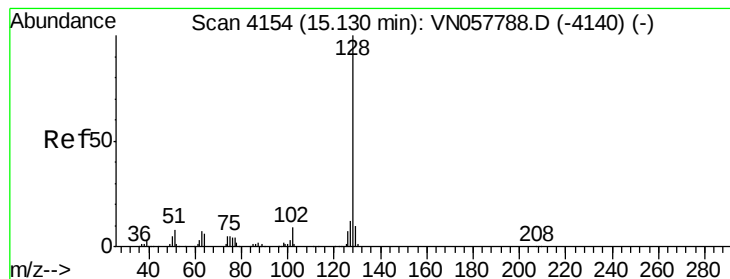


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#91

Naphthalene

Concen: 3.623 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058240.D

Acq: 20 Sep 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

390918737.1-VOA

Tot Ion:128 Resp: 60297

Ion Ratio Lower Upper

128 100

127 12.9 9.9 14.9

129 10.8 8.1 12.1

