

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121621\
 Data File : VN070148.D
 Acq On : 16 Dec 2021 19:39
 Operator : JC/MD
 Sample : M4940-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17

Quant Time: Dec 17 01:03:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : Sw846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

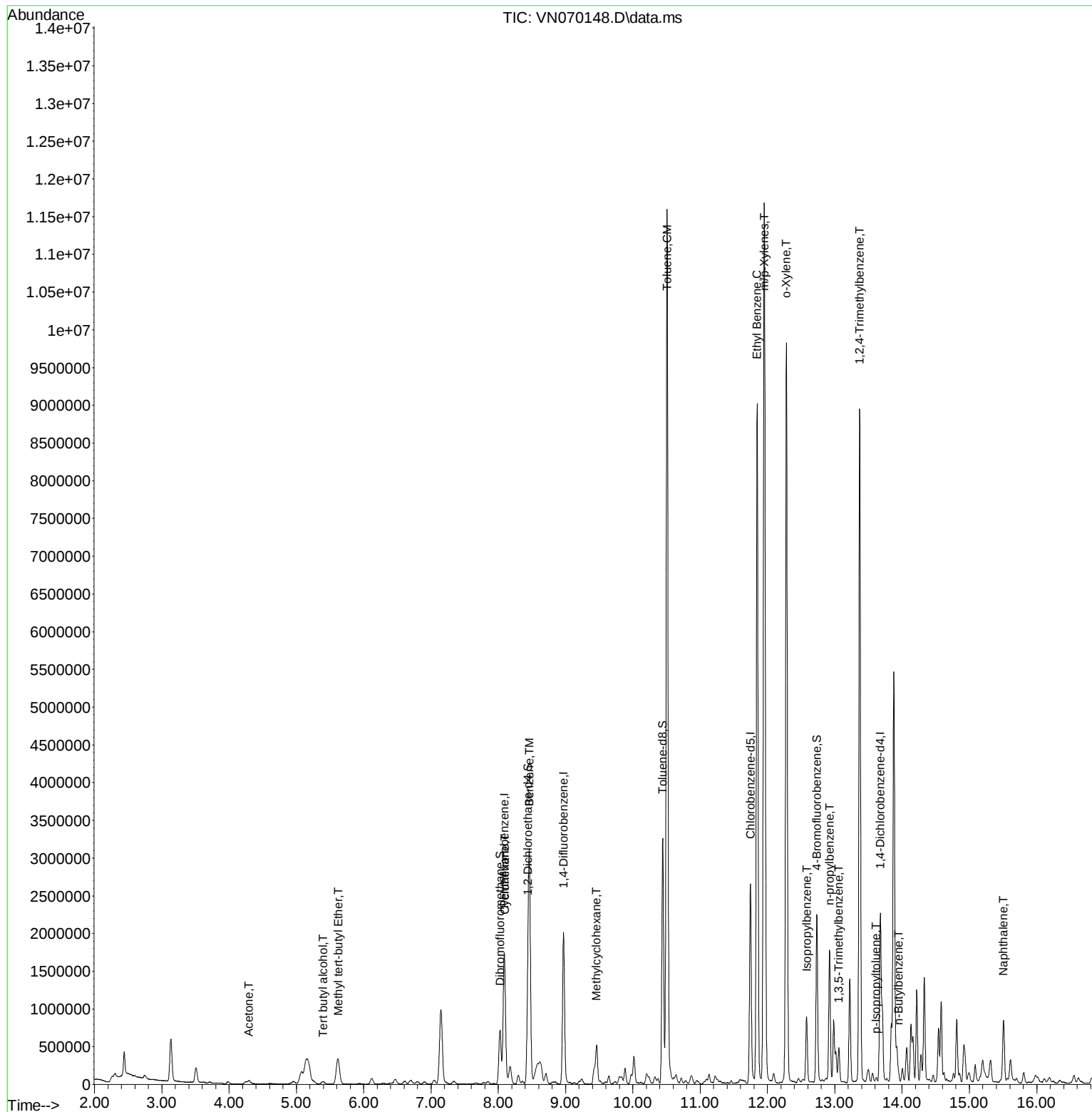
Internal Standards						
1) Pentafluorobenzene	8.088	168	950072	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1615326	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	1445093	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	587038	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	839414	57.223	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 114.440%			
35) Dibromofluoromethane	8.027	113	532700	52.648	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 105.300%			
50) Toluene-d8	10.443	98	2147879	52.868	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 105.740%			
62) 4-Bromofluorobenzene	12.731	95	768023	52.181	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 104.360%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.396	59	56021	20.204	ug/l #	71
16) Acetone	4.296	43	102979	11.670	ug/l	94
19) Methyl tert-butyl Ether	5.624	73	109257	3.105	ug/l #	1
31) Cyclohexane	8.094	56	309424	15.157	ug/l #	86
39) Methylcyclohexane	9.461	83	204768	11.195	ug/l #	86
40) Benzene	8.461	78	2735428	58.197	ug/l	100
52) Toluene	10.507	92	4939433	172.130	ug/l	98
67) Ethyl Benzene	11.846	91	6532778	122.674	ug/l	97
68) m/p-Xylenes	11.950	106	3657736	188.642	ug/l	92
69) o-Xylene	12.280	106	2595385	132.886	ug/l	90
73) Isopropylbenzene	12.581	105	565651	10.830	ug/l	98
78) n-propylbenzene	12.921	91	1415132	24.348	ug/l	96
80) 1,3,5-Trimethylbenzene	13.061	105	243080	5.782	ug/l	99
84) 1,2,4-Trimethylbenzene	13.369	105	5083191	126.965	ug/l	97
86) p-Isopropyltoluene	13.616	119	22653	0.574	ug/l #	77
89) n-Butylbenzene	13.943	91	73134	2.284	ug/l #	72
95) Naphthalene	15.507	128	742222	27.795	ug/l	99

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

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Response via : Initial Calibration



Abundance Scan 2273 (8.086 min): VN069703.D\data.ms (-2249) (-)

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 1

Delta R.T. 0.002 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

Instrument :

MSVOA_N

ClientSampleId :

MW-17

Tgt Ion:168 Resp: 950072

Ion Ratio Lower Upper

168 100

99 61.3 41.3 61.9

Abundance Scan 2274 (8.088 min): VN070148.D\data.ms

Ref

56.0 84.0 137.0 168.0 191.8

Raw

56.0 99.0 137.0 168.0 191.8

Sub

56.0 99.0 137.0 168.0 191.8

m/z-->

Abundance Scan 2274 (8.088 min): VN070148.D\data.ms (-2161) (-)

Ref

56.0 99.0 137.0 168.0 191.8

Raw

56.0 99.0 137.0 168.0 191.8

Sub

56.0 99.0 137.0 168.0 191.8

m/z-->

Abundance

400000

300000

200000

100000

0

8.00 8.10 8.20

Time-->

Abundance Scan 1268 (5.390 min): VN069703.D\data.ms (-1219) (-)

Tert butyl alcohol

Concen: 20.204 ug/l

RT: 5.396 min Scan# 1270

Delta R.T. 0.005 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

Tgt Ion: 59 Resp: 56021

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#

Abundance Scan 1270 (5.396 min): VN070148.D\data.ms

Ref

36.0 59.0 207.0

Raw

36.0 59.0 207.0

Sub

36.0 59.0 207.0

m/z-->

Abundance

15000

10000

5000

0

5.30 5.40 5.50

Time-->

Abundance Scan 1270 (5.396 min): VN070148.D\data.ms (-1156) (-)

Ref

36.0 59.0 207.0

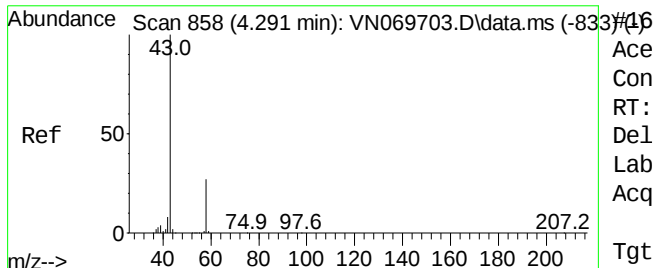
Raw

36.0 59.0 207.0

Sub

36.0 59.0 207.0

m/z-->



Acetone

Concen: 11.670 ug/l

RT: 4.296 min Scan# 858

Delta R.T. 0.005 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

Instrument :

MSVOA_N

ClientSampleId :

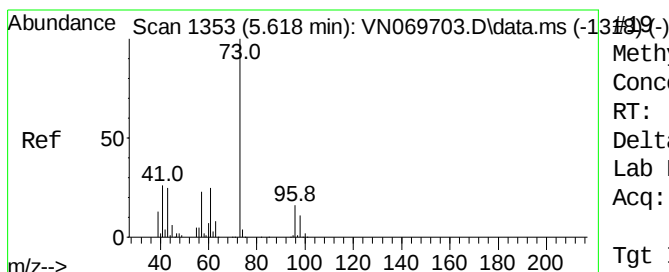
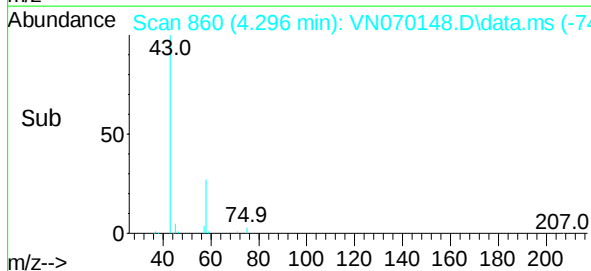
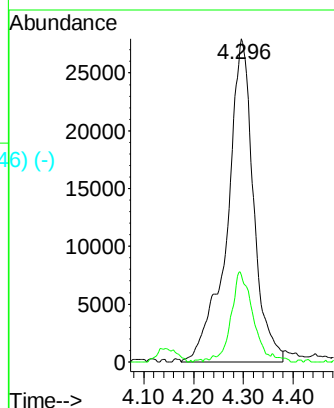
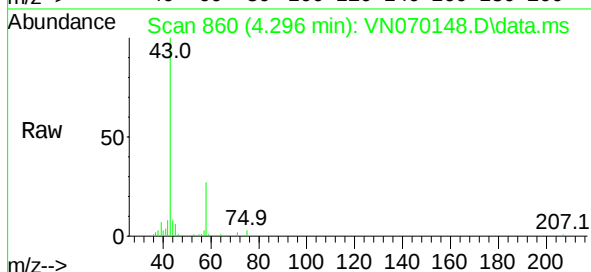
MW-17

Tgt Ion: 43 Resp: 102979

Ion Ratio Lower Upper

43 100

58 25.9 23.1 34.7



Methyl tert-butyl Ether

Concen: 3.105 ug/l

RT: 5.624 min Scan# 1355

Delta R.T. 0.005 min

Lab File: VN070148.D

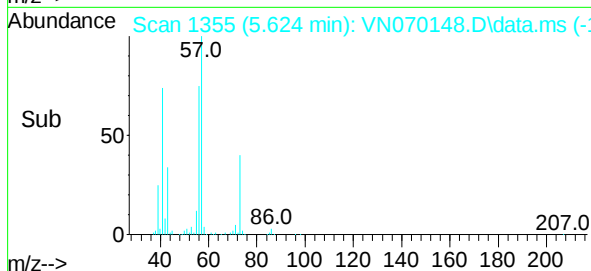
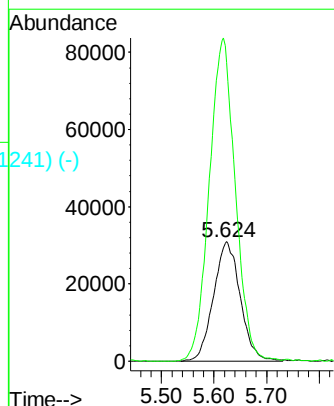
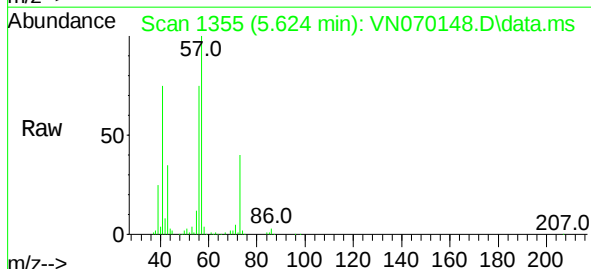
Acq: 16 Dec 2021 19:39

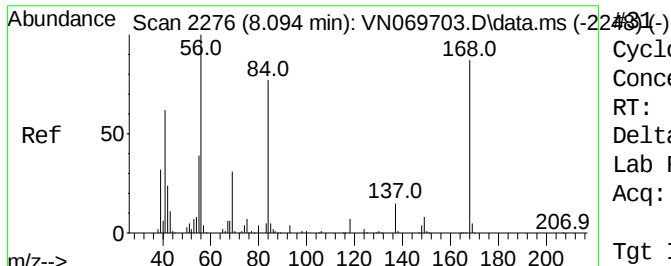
Tgt Ion: 73 Resp: 109257

Ion Ratio Lower Upper

73 100

57 249.3 16.8 25.2#





Cyclohexane

Concen: 15.157 ug/l

RT: 8.094 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

Instrument :

MSVOA_N

ClientSampleId :

MW-17

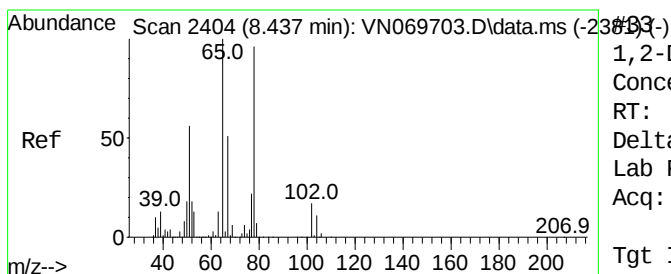
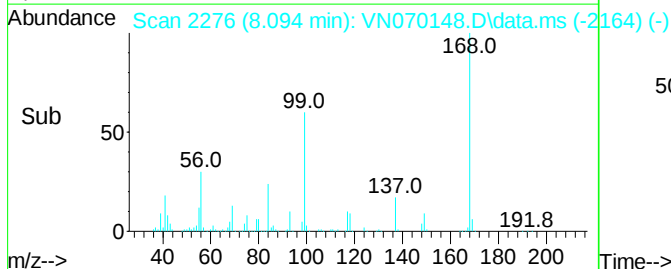
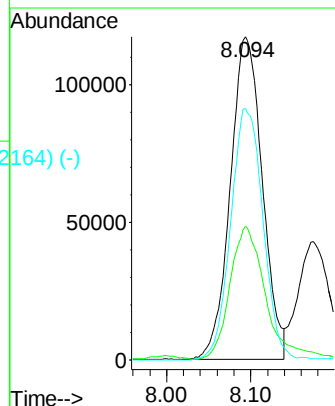
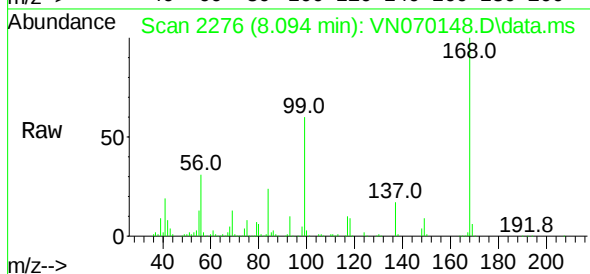
Tgt Ion: 56 Resp: 309424

Ion Ratio Lower Upper

56 100

69 40.8 27.1 40.7#

84 78.0 73.4 110.0



1,2-Dichloroethane-d4

Concen: 57.223 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VN070148.D

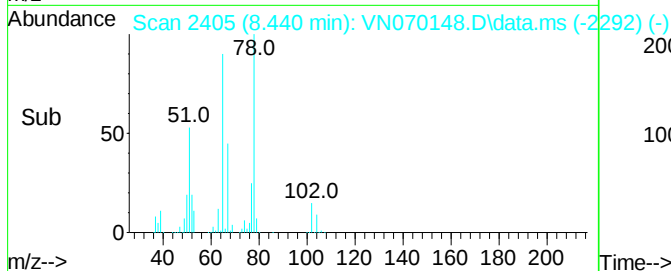
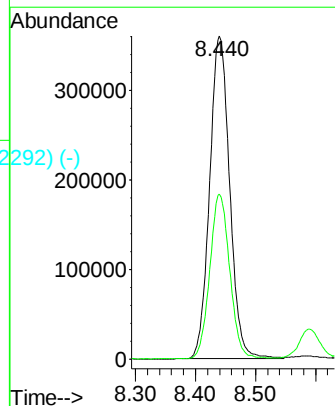
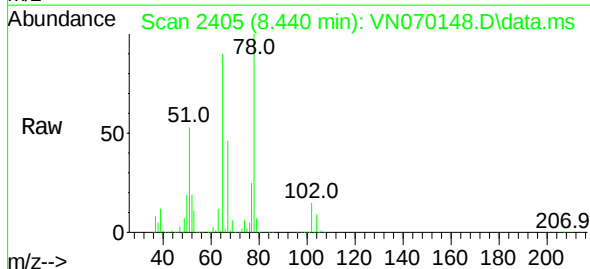
Acq: 16 Dec 2021 19:39

Tgt Ion: 65 Resp: 839414

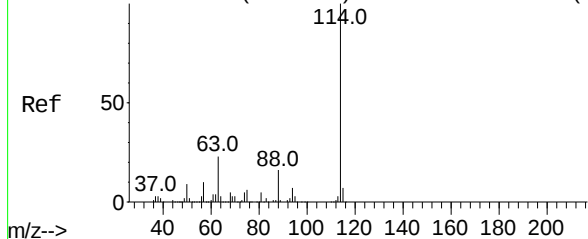
Ion Ratio Lower Upper

65 100

67 50.6 0.0 103.0



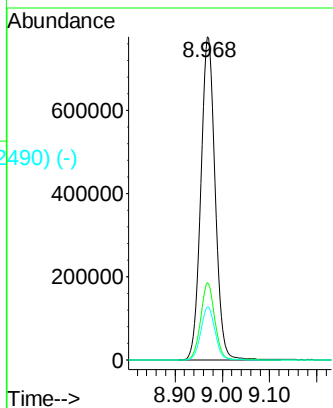
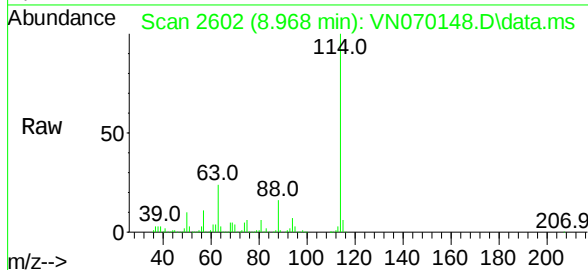
Abundance Scan 2602 (8.968 min): VN069703.D\data.ms (-25604-)



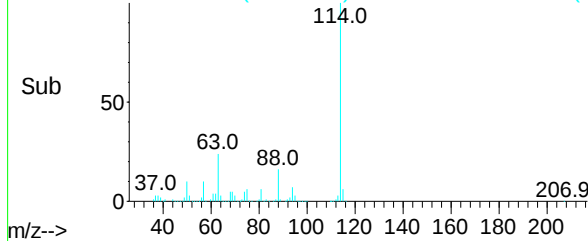
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.000 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

Instrument :
MSVOA_N
ClientSampleId :
MW-17

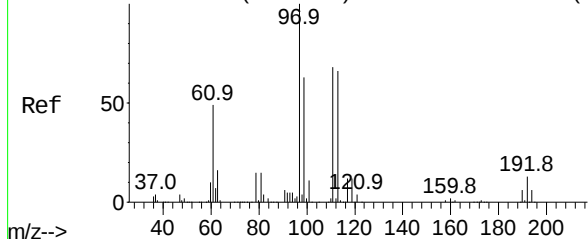
Tgt Ion:	114	Resp:	1615326
Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	37.8
88	16.4	0.0	27.4



Abundance Scan 2602 (8.968 min): VN070148.D\data.ms (-2490-)

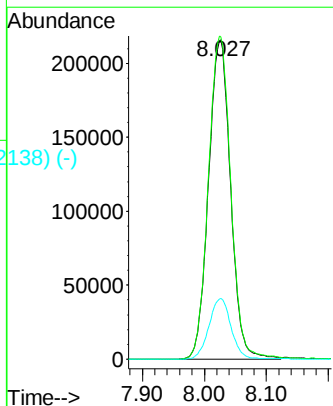
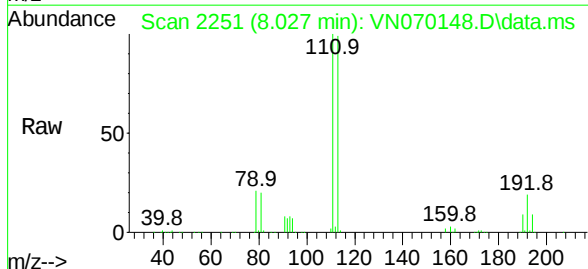


Abundance Scan 2250 (8.024 min): VN069703.D\data.ms (-22235-)

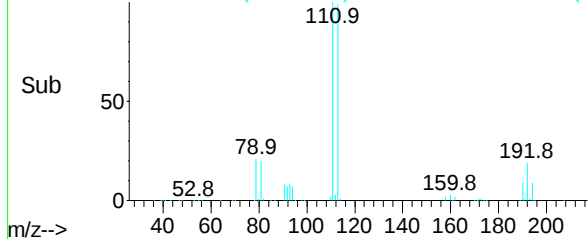


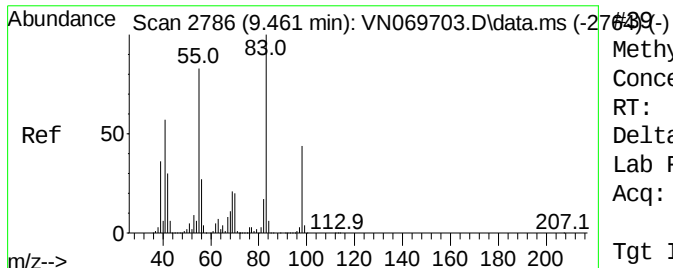
Dibromofluoromethane
Concen: 52.648 ug/l
RT: 8.027 min Scan# 2251
Delta R.T. 0.003 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

Tgt Ion:	113	Resp:	532700
Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.2
192	19.0	16.9	25.3



Abundance Scan 2251 (8.027 min): VN070148.D\data.ms (-2138-)





Methylcyclohexane

Concen: 11.195 ug/l

RT: 9.461 min Scan# 2786

Delta R.T. 0.000 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

Instrument :

MSVOA_N

ClientSampleId :

MW-17

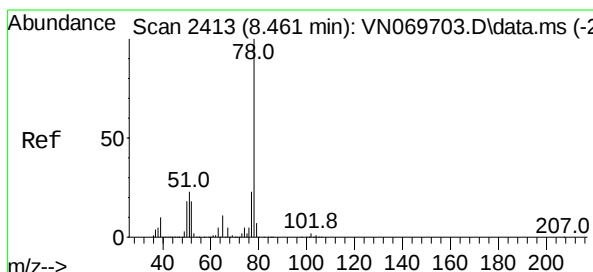
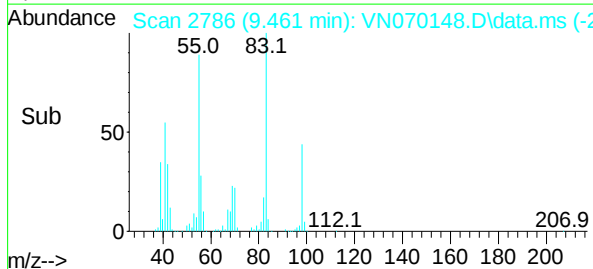
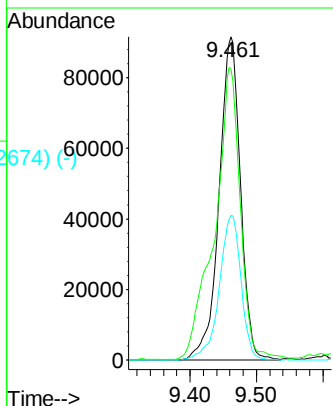
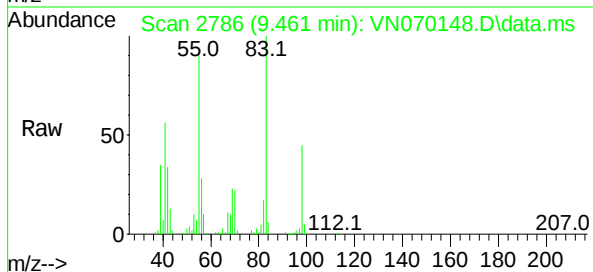
Tgt Ion: 83 Resp: 204768

Ion Ratio Lower Upper

83 100

55 89.4 58.1 87.1#

98 44.6 38.4 57.6



Benzene

Concen: 58.197 ug/l

RT: 8.461 min Scan# 2413

Delta R.T. 0.000 min

Lab File: VN070148.D

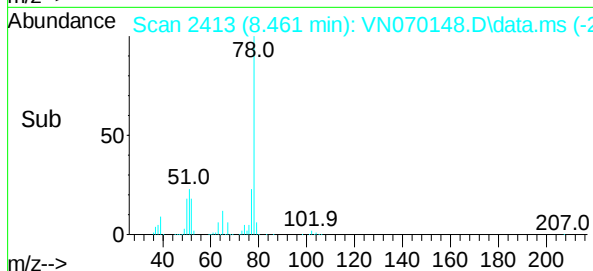
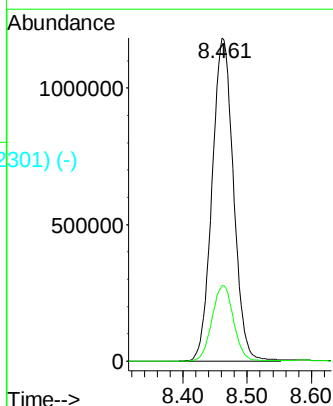
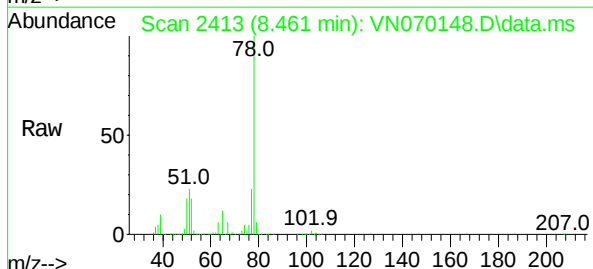
Acq: 16 Dec 2021 19:39

Tgt Ion: 78 Resp: 2735428

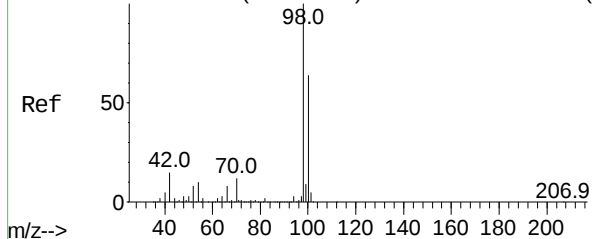
Ion Ratio Lower Upper

78 100

77 23.3 18.6 27.8



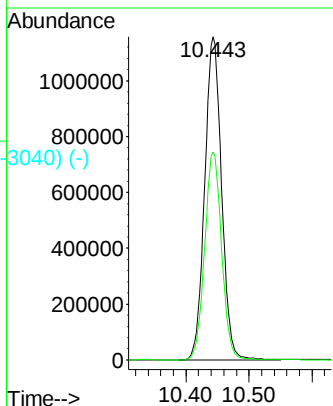
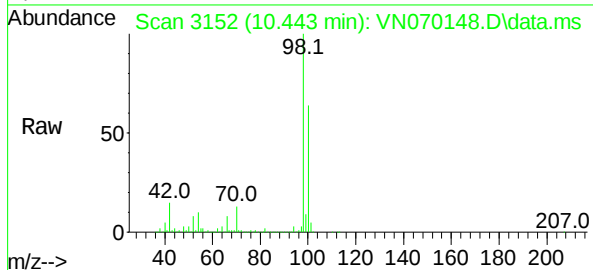
Abundance Scan 3152 (10.443 min): VN069703.D\data.ms (-3152) (-)



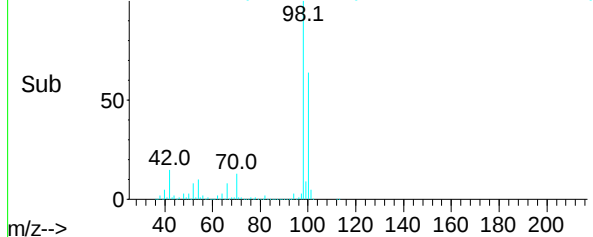
Toluene-d8
Concen: 52.868 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

Instrument :
MSVOA_N
ClientSampleId :
MW-17

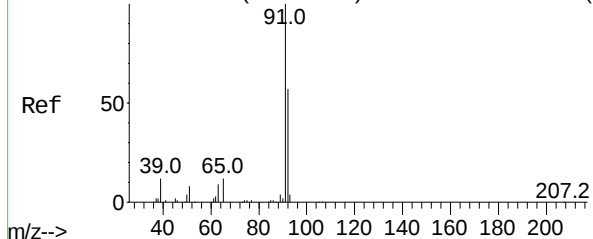
Tgt Ion: 98 Resp: 2147879
Ion Ratio Lower Upper
98 100
100 64.9 50.4 75.6



Abundance Scan 3152 (10.443 min): VN070148.D\data.ms (-3040) (-)

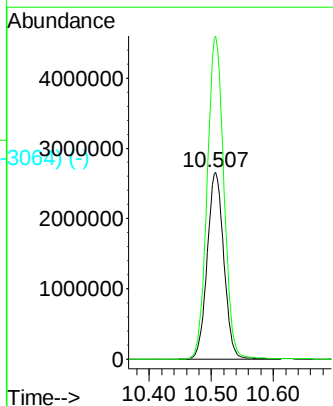
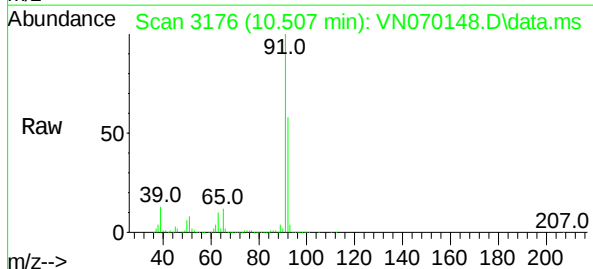


Abundance Scan 3176 (10.507 min): VN069703.D\data.ms (-3176) (-)

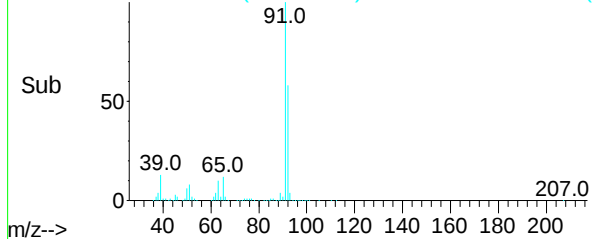


Toluene
Concen: 172.130 ug/l
RT: 10.507 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

Tgt Ion: 92 Resp: 4939433
Ion Ratio Lower Upper
92 100
91 174.1 142.0 213.0



Abundance Scan 3176 (10.507 min): VN070148.D\data.ms (-3064) (-)



Abundance Scan 4005 (12.731 min): VN069703.D\data.ms (-3962) (-)

4-Bromofluorobenzene

Concen: 52.181 ug/l

RT: 12.731 min Scan# 4005

Delta R.T. -0.000 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

Instrument :

MSVOA_N

ClientSampleId :

MW-17

Tgt Ion: 95 Resp: 768023

Ion Ratio Lower Upper

95 100

174 74.7 0.0 187.2

176 72.8 0.0 181.4

Abundance Scan 4005 (12.731 min): VN070148.D\data.ms

Ref

50.0 95.0 118.9 142.9 173.9

Raw

50.0 95.0 118.9 142.9 173.9 206.9

m/z-->

Abundance Scan 4005 (12.731 min): VN070148.D\data.ms (-3893) (-)

Sub

50.0 95.0 118.9 142.9 173.9

m/z-->

Abundance

12.731

400000

300000

200000

100000

0

Time-->

12.70 12.80

Abundance Scan 3638 (11.746 min): VN069703.D\data.ms (-3653) (-)

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.746 min Scan# 3638

Delta R.T. 0.000 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

Tgt Ion: 117 Resp: 1445093

Ion Ratio Lower Upper

117 100

82 59.8 42.4 63.6

119 32.3 25.4 38.2

Abundance Scan 3638 (11.746 min): VN070148.D\data.ms

Ref

54.0 82.0 117.0 207.0

Raw

54.0 82.0 117.0

m/z-->

Abundance Scan 3638 (11.746 min): VN070148.D\data.ms (-3526) (-)

Sub

54.0 82.0 117.0

m/z-->

Abundance

11.746

600000

400000

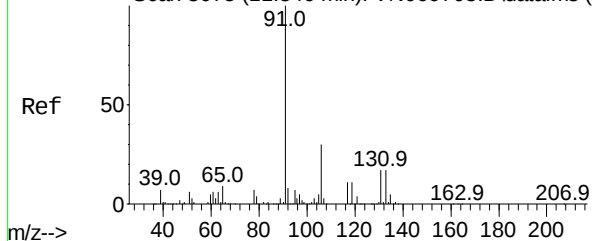
200000

0

Time-->

11.70 11.80

Abundance Scan 3675 (11.846 min): VN069703.D\data.ms (-3652) (-)



Ethyl Benzene

Concen: 122.674 ug/l

RT: 11.846 min Scan#

Delta R.T. 0.000 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

Instrument :

MSVOA_N

ClientSampleId :

MW-17

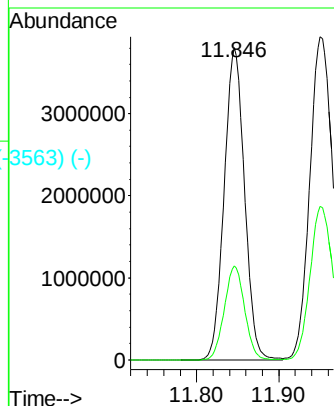
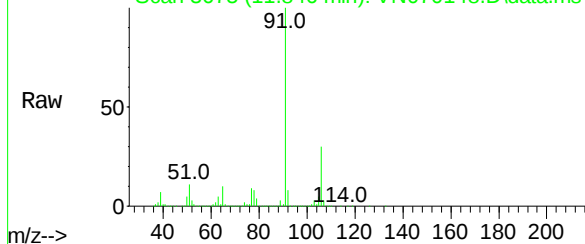
Tgt Ion: 91 Resp: 6532778

Ion Ratio Lower Upper

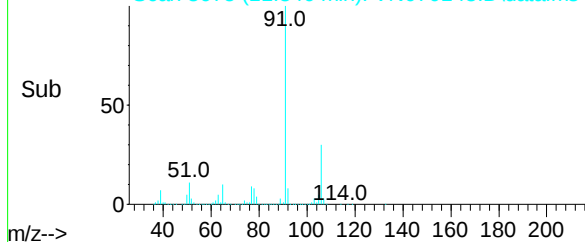
91 100

106 30.2 25.7 38.5

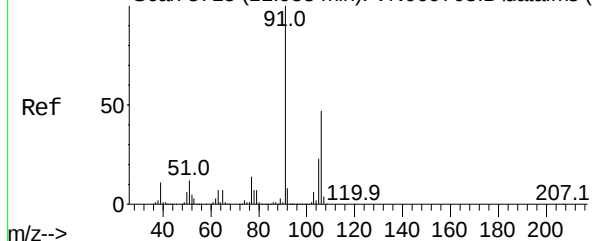
Abundance Scan 3675 (11.846 min): VN070148.D\data.ms



Abundance Scan 3675 (11.846 min): VN070148.D\data.ms (-3563) (-)



Abundance Scan 3715 (11.953 min): VN069703.D\data.ms (-3658) (-)



m/p-Xylenes

Concen: 188.642 ug/l

RT: 11.950 min Scan# 3714

Delta R.T. -0.003 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

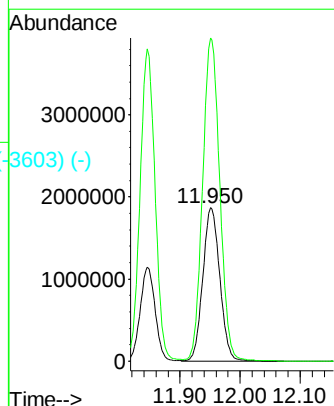
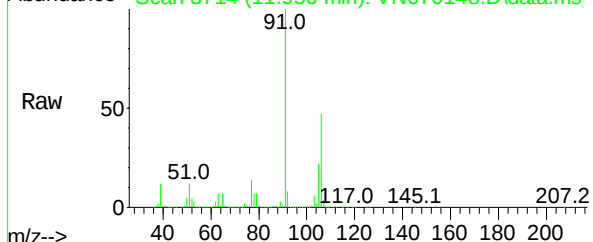
Tgt Ion:106 Resp: 3657736

Ion Ratio Lower Upper

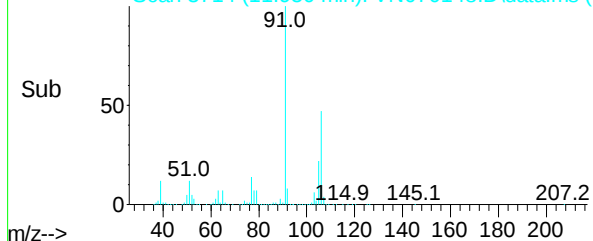
106 100

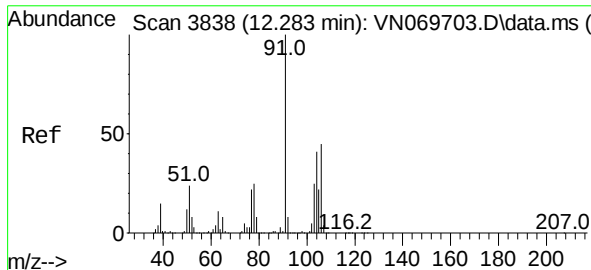
91 212.7 160.6 240.8

Abundance Scan 3714 (11.950 min): VN070148.D\data.ms



Abundance Scan 3714 (11.950 min): VN070148.D\data.ms (-3603) (-)

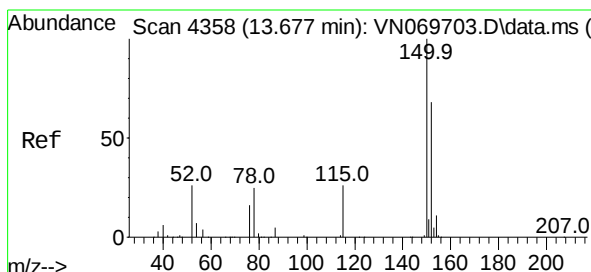
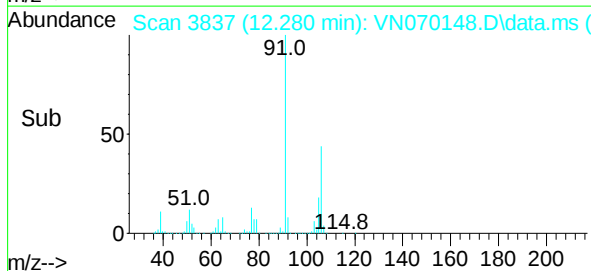
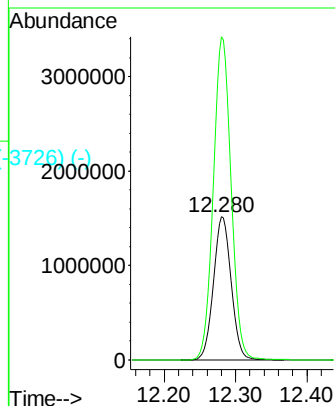
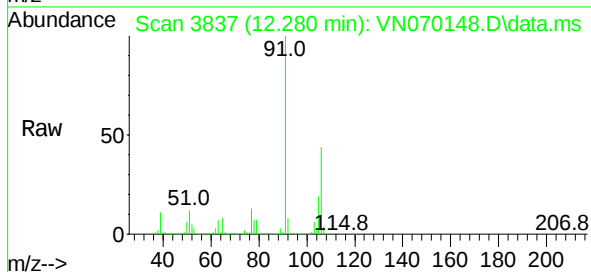




o-Xylene
Concen: 132.886 ug/l
RT: 12.280 min Scan# 3838
Delta R.T. -0.003 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

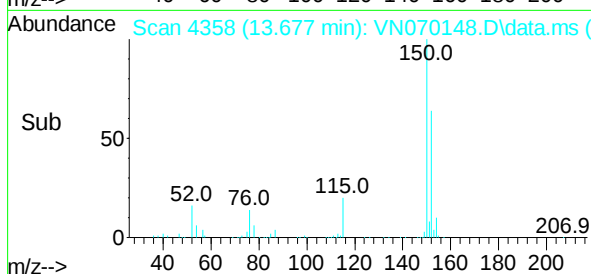
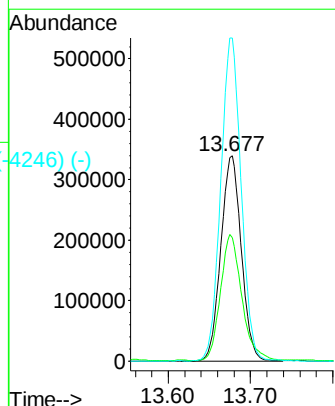
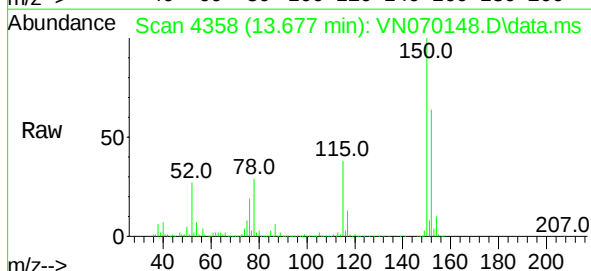
Instrument :
MSVOA_N
ClientSampleId :
MW-17

Tgt Ion:106 Resp: 2595385
Ion Ratio Lower Upper
106 100
91 226.7 105.8 317.3



1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

Tgt Ion:152 Resp: 587038
Ion Ratio Lower Upper
152 100
115 64.0 27.5 82.5
150 156.9 0.0 344.4



Abundance Scan 3949 (12.581 min): VN069703.D\data.ms (-3978) (-)

Isopropylbenzene

Concen: 10.830 ug/l

RT: 12.581 min Scan# 3949

Delta R.T. 0.000 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

Instrument :

MSVOA_N

ClientSampleId :

MW-17

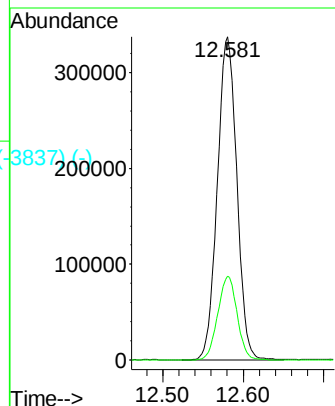
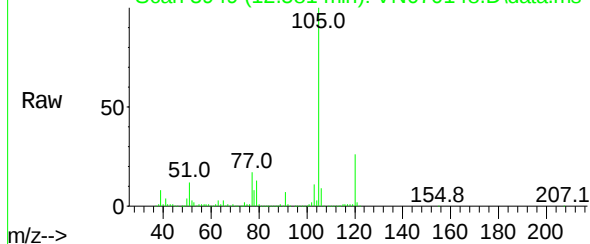
Tgt Ion:105 Resp: 565651

Ion Ratio Lower Upper

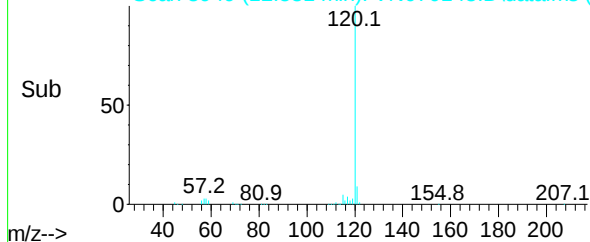
105 100

120 25.8 13.4 40.1

Abundance Scan 3949 (12.581 min): VN070148.D\data.ms



Abundance Scan 3949 (12.581 min): VN070148.D\data.ms (-3837) (-)



Abundance Scan 4076 (12.921 min): VN069703.D\data.ms (-4076) (-)

n-propylbenzene

Concen: 24.348 ug/l

RT: 12.921 min Scan# 4076

Delta R.T. 0.000 min

Lab File: VN070148.D

Acq: 16 Dec 2021 19:39

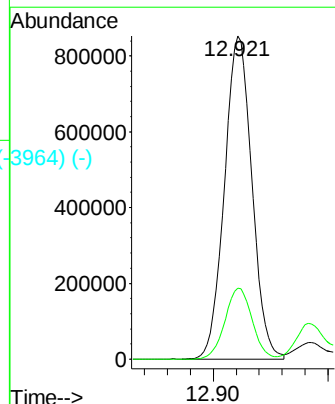
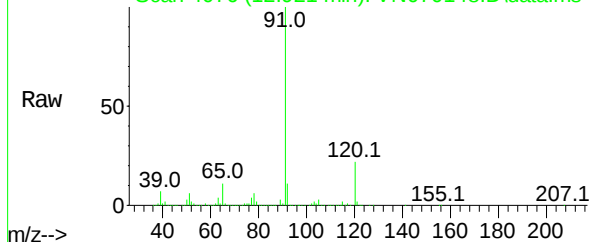
Tgt Ion: 91 Resp: 1415132

Ion Ratio Lower Upper

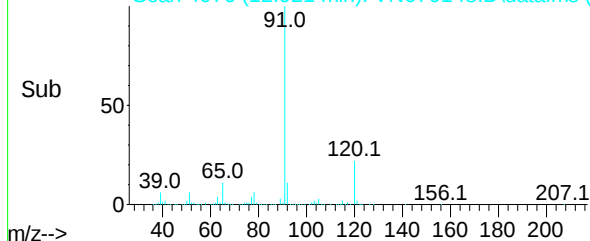
91 100

120 21.8 11.9 35.9

Abundance Scan 4076 (12.921 min): VN070148.D\data.ms



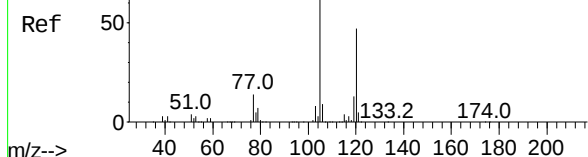
Abundance Scan 4076 (12.921 min): VN070148.D\data.ms (-3964) (-)



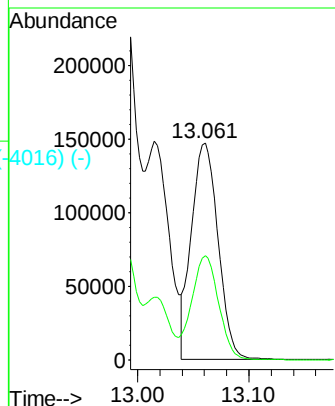
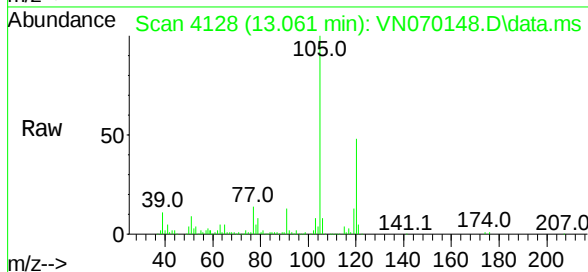
Abundance Scan 4128 (13.061 min): VN069703.D\data.ms (-4128) (-)

1,3,5-Trimethylbenzene
Concen: 5.782 ug/l
RT: 13.061 min Scan# 4128
Delta R.T. 0.000 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

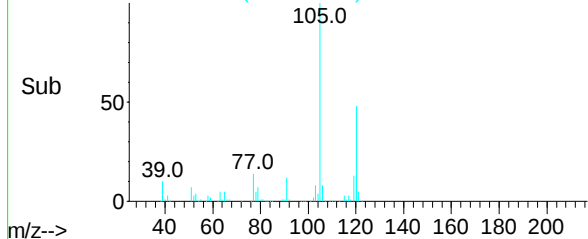
Instrument :
MSVOA_N
ClientSampleId :
MW-17



Tgt Ion:105 Resp: 243080
Ion Ratio Lower Upper
105 100
120 48.7 24.6 73.6



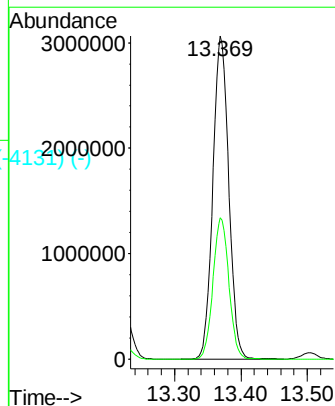
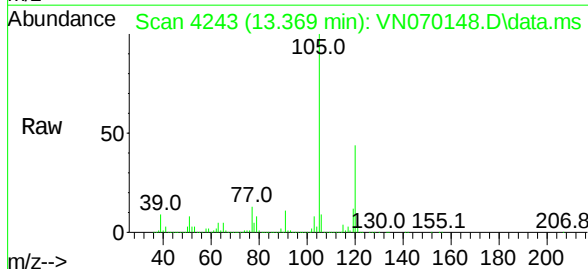
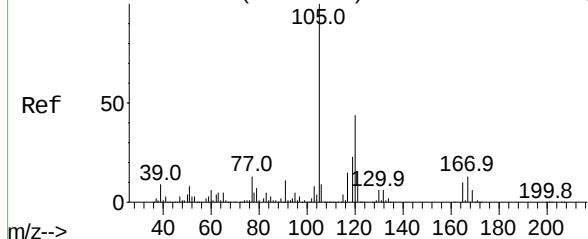
Abundance Scan 4128 (13.061 min): VN070148.D\data.ms (-4016) (-)



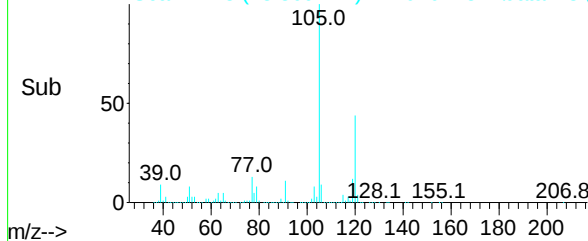
Abundance Scan 4243 (13.369 min): VN069703.D\data.ms (-4243) (-)

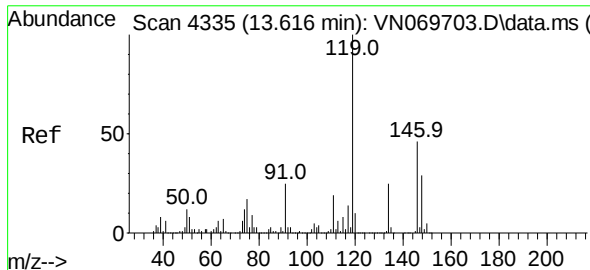
1,2,4-Trimethylbenzene
Concen: 126.965 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

Tgt Ion:105 Resp: 5083191
Ion Ratio Lower Upper
105 100
120 43.8 22.8 68.4



Abundance Scan 4243 (13.369 min): VN070148.D\data.ms (-4131) (-)

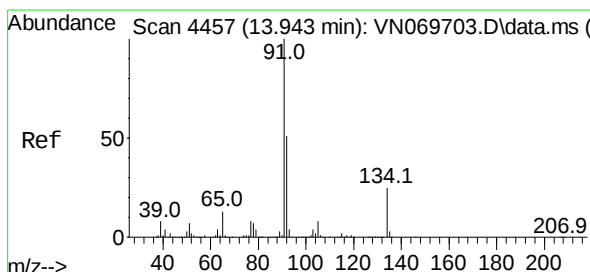
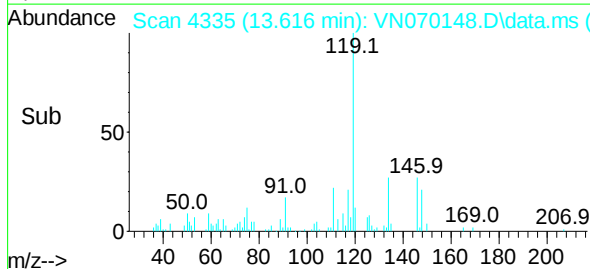
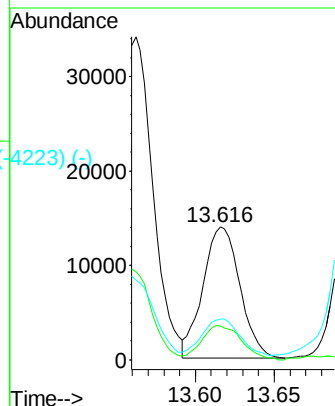
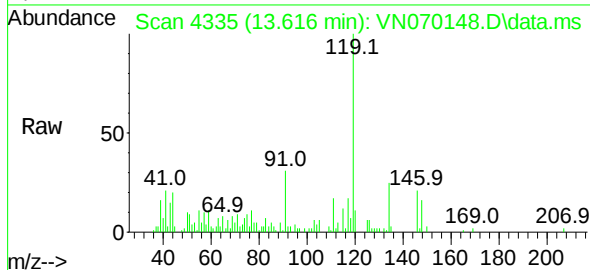




p-Isopropyltoluene
Concen: 0.574 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. 0.000 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

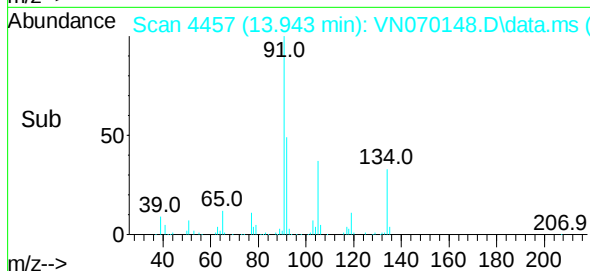
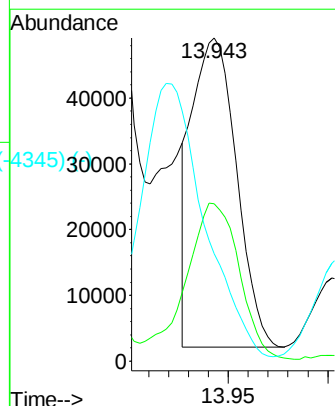
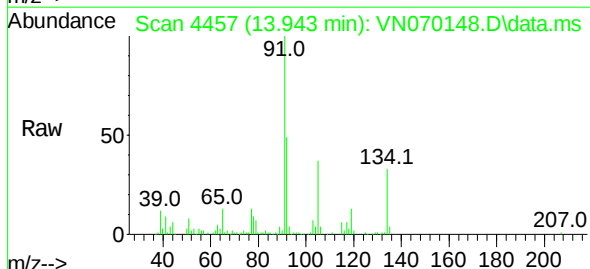
Instrument : MSVOA_N
ClientSampleId : MW-17

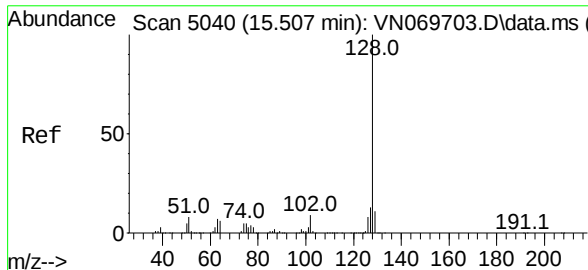
Tgt Ion:	119	Resp:	22653
Ion	Ratio	Lower	Upper
119	100		
134	28.2	13.6	40.7
91	0.0	11.4	34.1#



n-Butylbenzene
Concen: 2.284 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. 0.000 min
Lab File: VN070148.D
Acq: 16 Dec 2021 19:39

Tgt Ion:	91	Resp:	73134
Ion	Ratio	Lower	Upper
91	100		
92	61.0	25.4	76.0
134	0.0	13.6	40.8#





Naphthalene
 Concen: 27.795 ug/l
 RT: 15.507 min Scan# 5095
 Delta R.T. -0.000 min
 Lab File: VN070148.D
 Acq: 16 Dec 2021 19:39

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17

Tgt Ion:128 Resp: 742222
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.5 15.7
 129 10.6 8.7 13.1

