

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080122\
 Data File : VN073672.D
 Acq On : 01 Aug 2022 20:13
 Operator : JC\MD
 Sample : N3964-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HMGP-SOIL-B

Quant Time: Aug 02 05:06:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 29 02:20:25 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.016	168	342303	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	566000	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	568342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	307161	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	201816	48.380	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.760%
35) Dibromofluoromethane	7.951	113	187920	52.874	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.740%
50) Toluene-d8	10.380	98	664852	47.537	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.080%
62) 4-Bromofluorobenzene	12.674	95	262522	55.095	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	110.180%

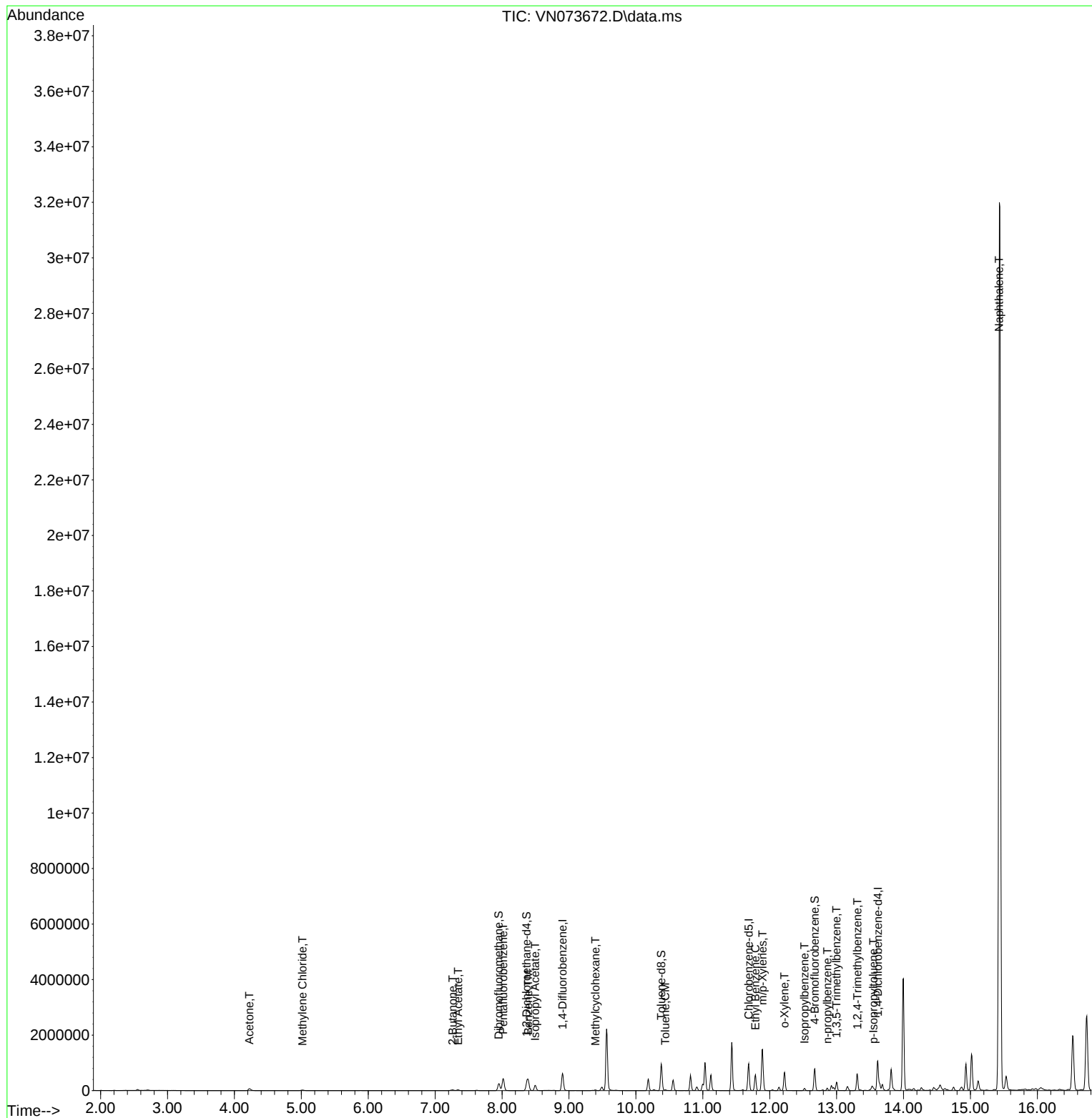
Target Compounds				Qvalue		
16) Acetone	4.222	43	131342	58.620	ug/l	98
20) Methylene Chloride	5.016	84	20075	3.488	ug/l #	91
25) 2-Butanone	7.263	43	39272	11.287	ug/l	100
37) Ethyl Acetate	7.345	43	48655	7.293	ug/l	99
39) Methylcyclohexane	9.398	83	11399	1.883	ug/l	89
40) Benzene	8.392	78	314845	19.141	ug/l	99
43) Isopropyl Acetate	8.492	43	210921	23.408	ug/l #	91
52) Toluene	10.439	92	10791	1.074	ug/l	99
67) Ethyl Benzene	11.786	91	403081	19.792	ug/l	100
68) m/p-Xylenes	11.892	106	476413	61.333	ug/l	99
69) o-Xylene	12.222	106	181581	23.978	ug/l	100
73) Isopropylbenzene	12.521	105	45878	2.040	ug/l	98
78) n-propylbenzene	12.863	91	67495	2.668	ug/l	99
80) 1,3,5-Trimethylbenzene	12.998	105	165475	8.943	ug/l	98
84) 1,2,4-Trimethylbenzene	13.310	105	342473	18.823	ug/l	100
86) p-Isopropyltoluene	13.551	119	32189	1.803	ug/l	89
95) Naphthalene	15.427	128	21782535	1248.036	ug/l #	83

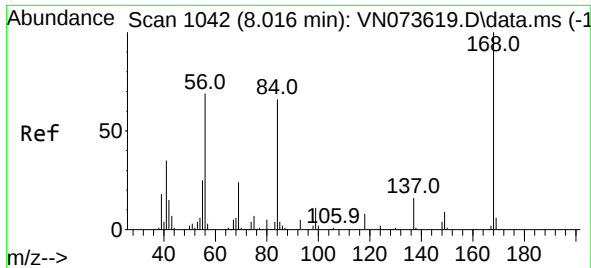
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 29 02:20:25 2022
Response via : Initial Calibration

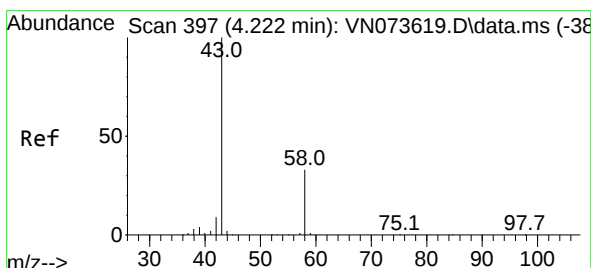
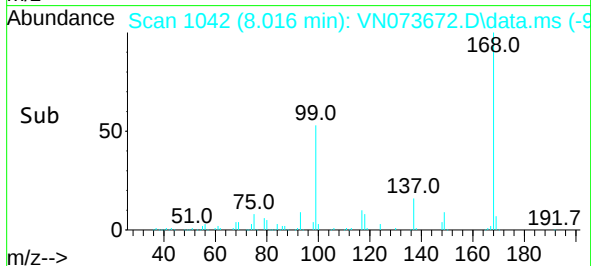
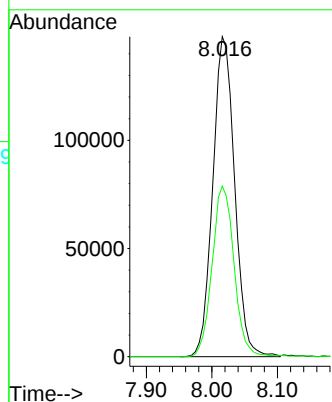
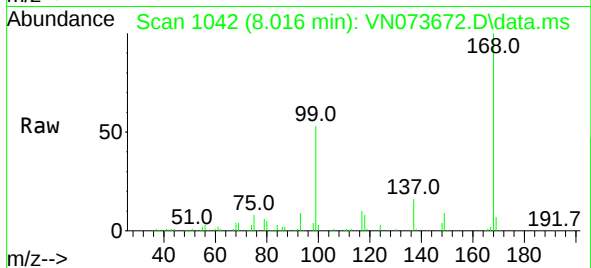




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

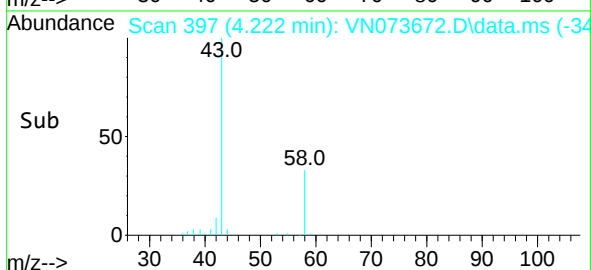
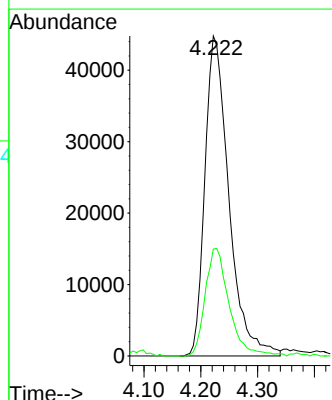
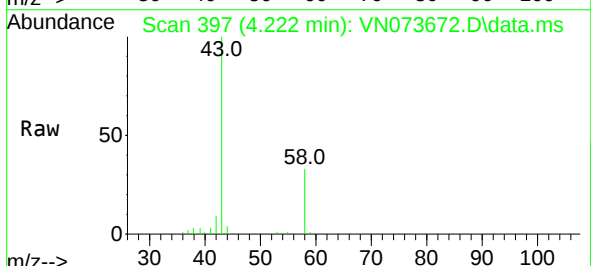
Instrument :
MSVOA_N
ClientSampleId :
HMGP-SOIL-B

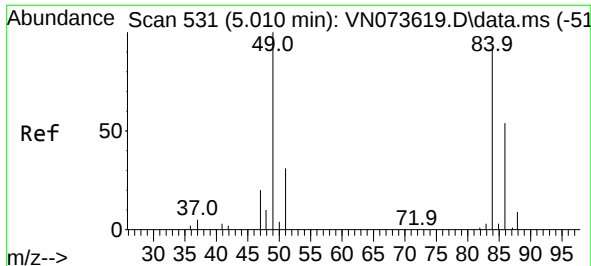
Tgt Ion:168 Resp: 342303
Ion Ratio Lower Upper
168 100
99 53.3 42.3 63.5



#16
Acetone
Concen: 58.620 ug/l
RT: 4.222 min Scan# 397
Delta R.T. 0.000 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

Tgt Ion: 43 Resp: 131342
Ion Ratio Lower Upper
43 100
58 33.4 26.0 39.0

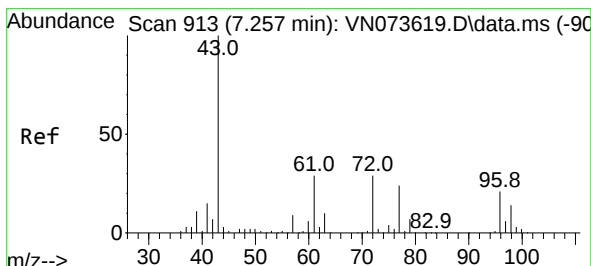
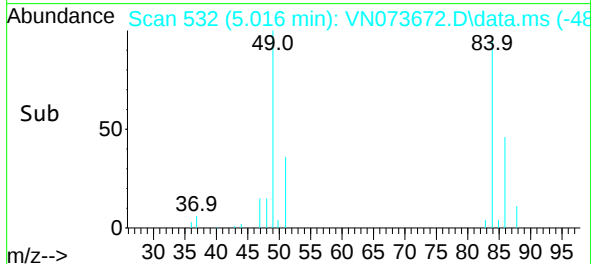
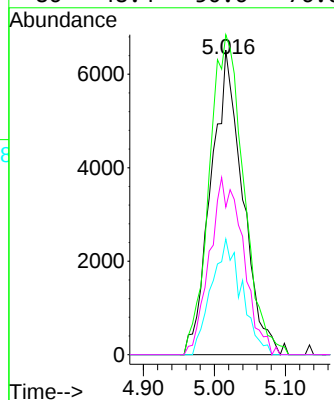
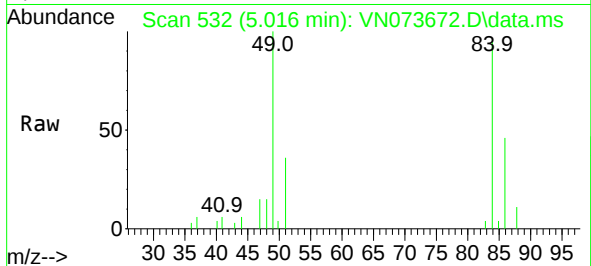




#20
Methylene Chloride
Concen: 3.488 ug/l
RT: 5.016 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

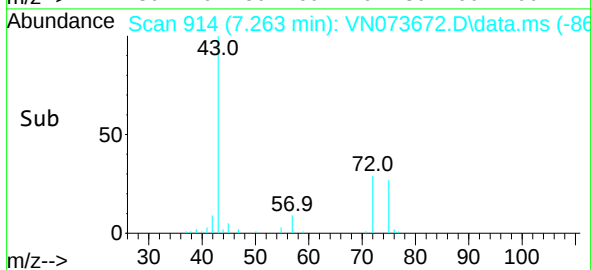
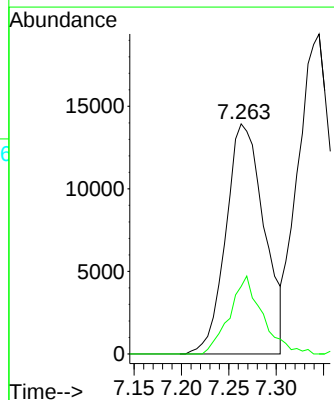
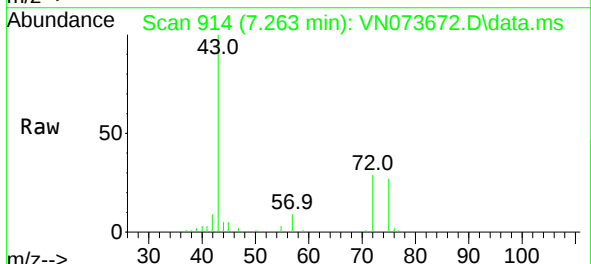
Instrument :
MSVOA_N
ClientSampleId :
HMGP-SOIL-B

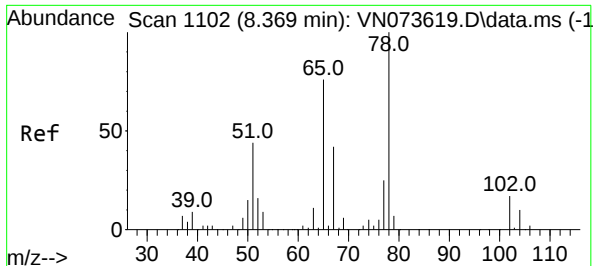
Tgt Ion: 84 Resp: 20075
Ion Ratio Lower Upper
84 100
49 105.0 88.3 132.5
51 38.0 28.2 42.2
86 48.4 50.6 76.0#



#25
2-Butanone
Concen: 11.287 ug/l
RT: 7.263 min Scan# 914
Delta R.T. 0.006 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

Tgt Ion: 43 Resp: 39272
Ion Ratio Lower Upper
43 100
72 29.4 23.7 35.5





#33

1,2-Dichloroethane-d4

Concen: 48.380 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN073672.D

Acq: 01 Aug 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

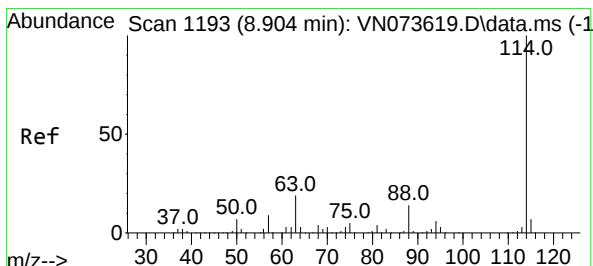
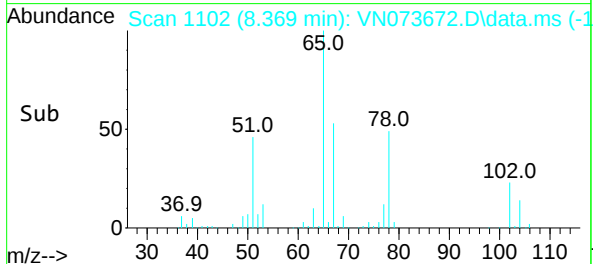
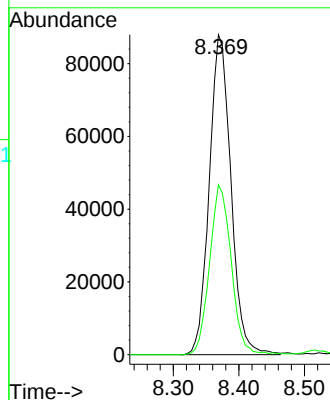
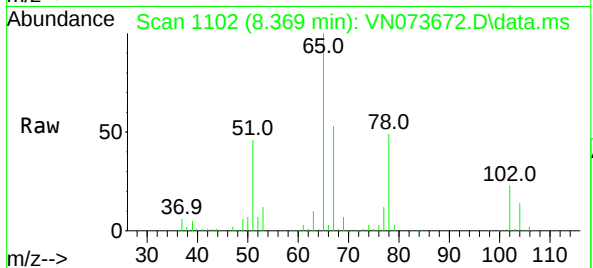
HMGP-SOIL-B

Tgt Ion: 65 Resp: 201816

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN073672.D

Acq: 01 Aug 2022 20:13

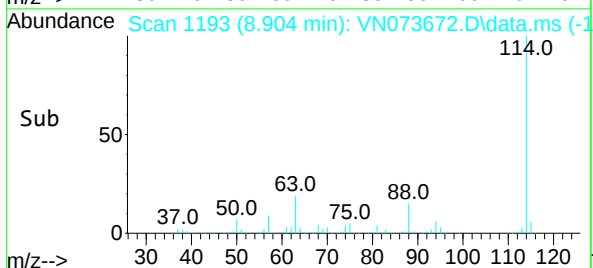
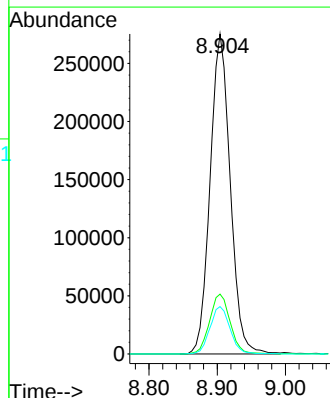
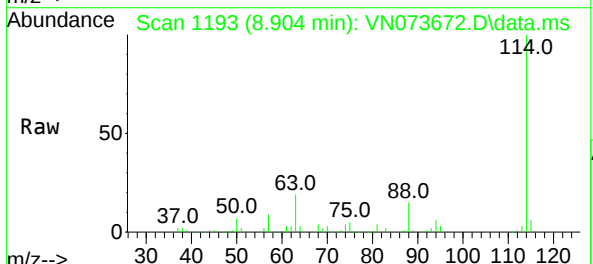
Tgt Ion: 114 Resp: 566000

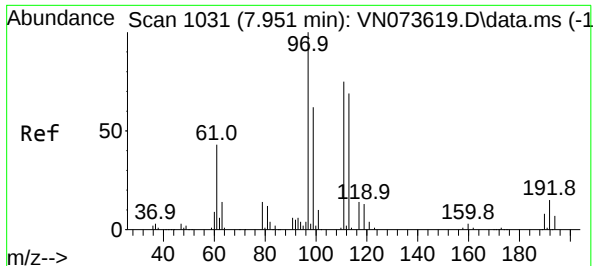
Ion Ratio Lower Upper

114 100

63 18.7 0.0 40.0

88 14.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 52.874 ug/l

RT: 7.951 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN073672.D

Acq: 01 Aug 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

HMGP-SOIL-B

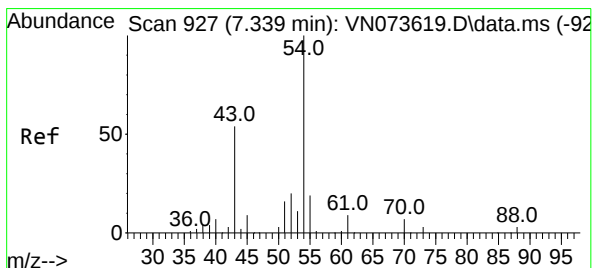
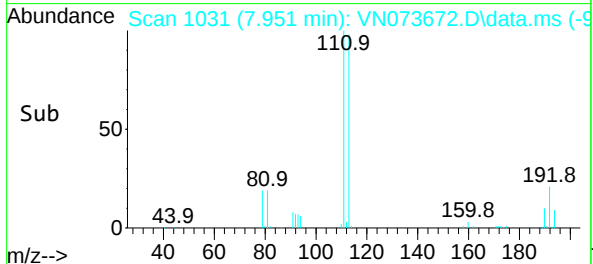
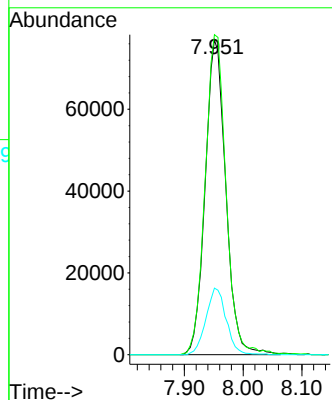
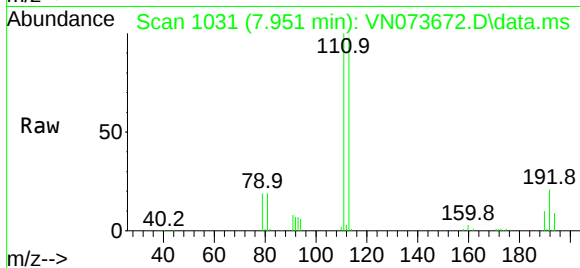
Tgt Ion:113 Resp: 187920

Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.0

192 20.8 17.0 25.6



#37

Ethyl Acetate

Concen: 7.293 ug/l

RT: 7.345 min Scan# 928

Delta R.T. 0.006 min

Lab File: VN073672.D

Acq: 01 Aug 2022 20:13

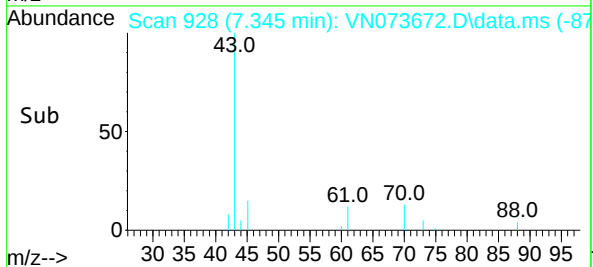
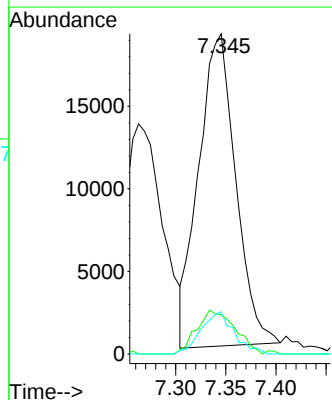
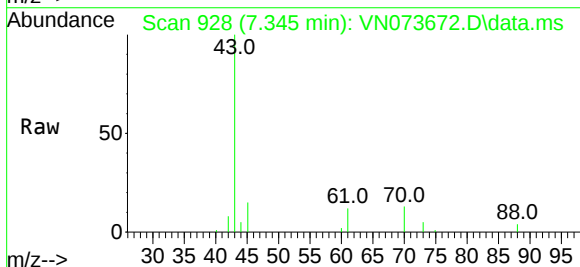
Tgt Ion: 43 Resp: 48655

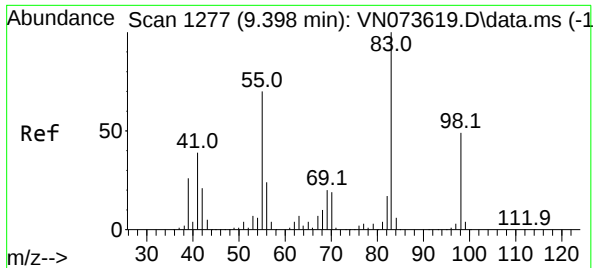
Ion Ratio Lower Upper

43 100

61 14.4 11.8 17.6

70 12.0 9.3 13.9





#39

Methylcyclohexane

Concen: 1.883 ug/l

RT: 9.398 min Scan# 1106

Delta R.T. 0.000 min

Lab File: VN073672.D

Acq: 01 Aug 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

HMGP-SOIL-B

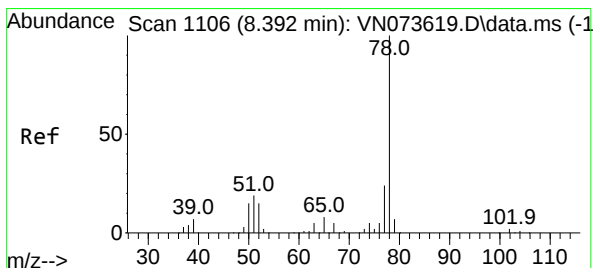
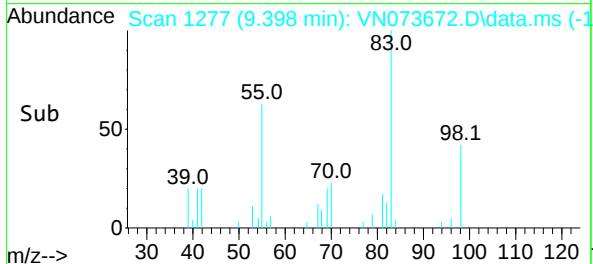
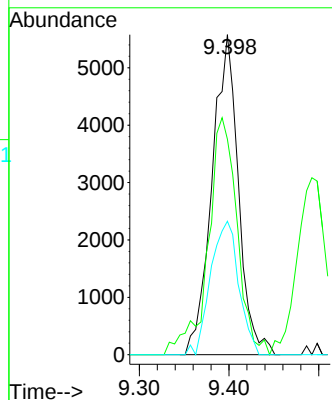
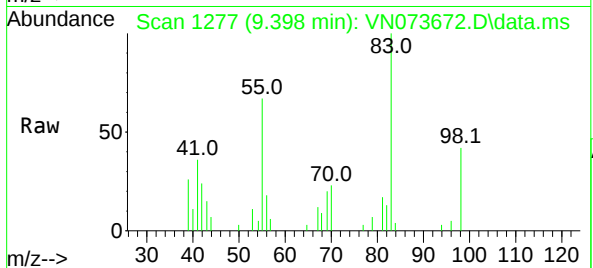
Tgt Ion: 83 Resp: 11399

Ion Ratio Lower Upper

83 100

55 63.7 57.8 86.8

98 41.7 39.4 59.2



#40

Benzene

Concen: 19.141 ug/l

RT: 8.392 min Scan# 1106

Delta R.T. 0.000 min

Lab File: VN073672.D

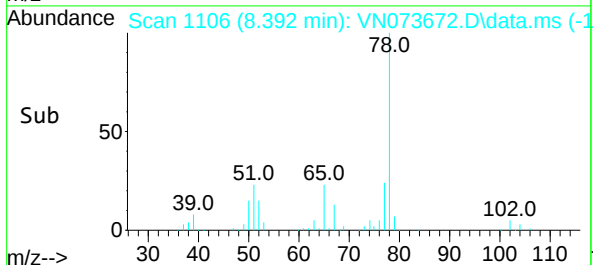
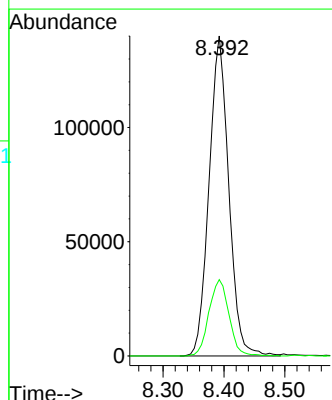
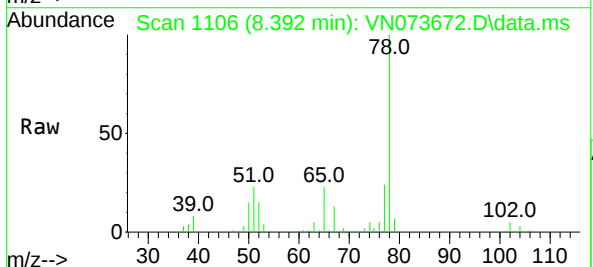
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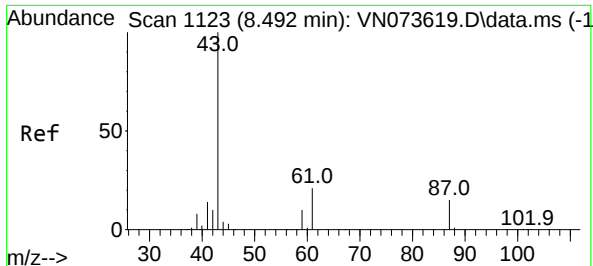
Tgt Ion: 78 Resp: 314845

Ion Ratio Lower Upper

78 100

77 23.9 19.4 29.0





#43

Isopropyl Acetate

Concen: 23.408 ug/l

RT: 8.492 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN073672.D

Acq: 01 Aug 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

HMGP-SOIL-B

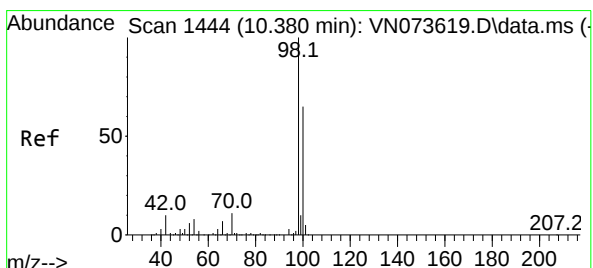
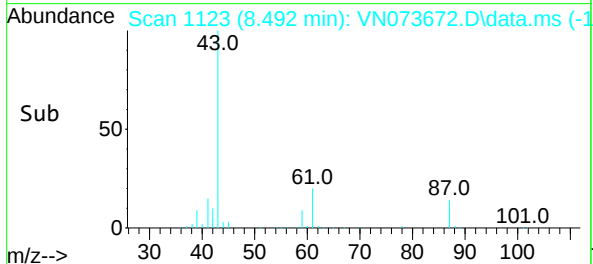
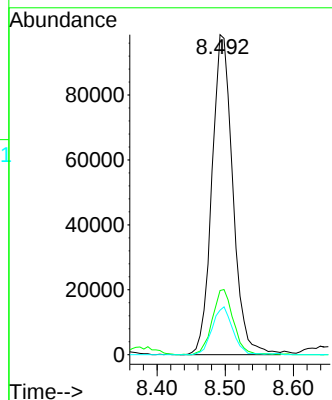
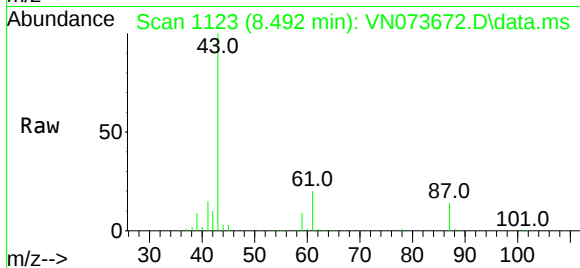
Tgt Ion: 43 Resp: 210921

Ion Ratio Lower Upper

43 100

61 20.5 21.9 32.9#

87 14.6 12.0 18.0



#50

Toluene-d8

Concen: 47.537 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN073672.D

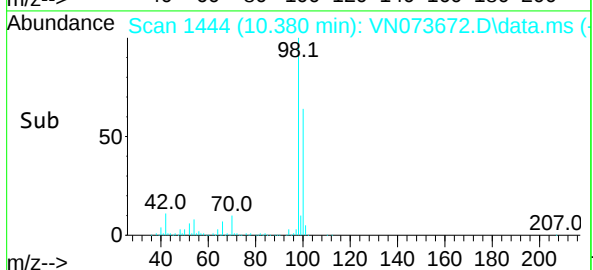
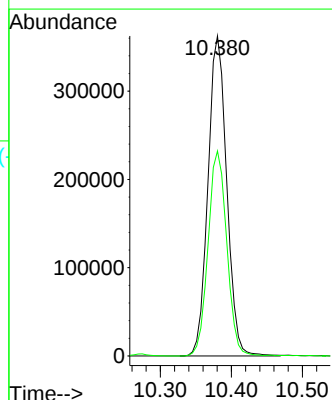
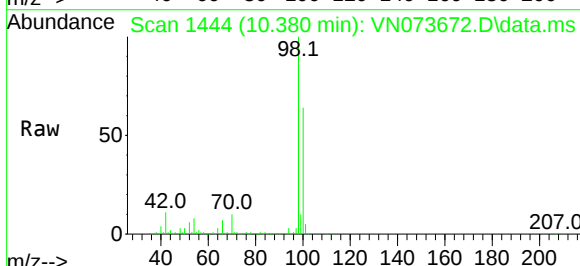
Acq: 01 Aug 2022 20:13

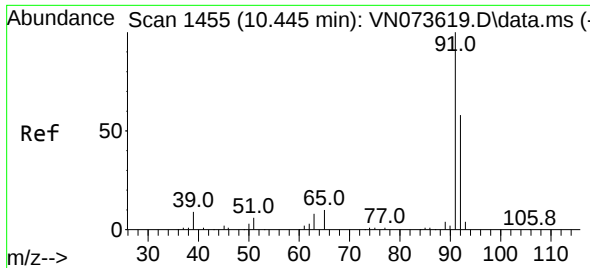
Tgt Ion: 98 Resp: 664852

Ion Ratio Lower Upper

98 100

100 63.9 52.6 78.8

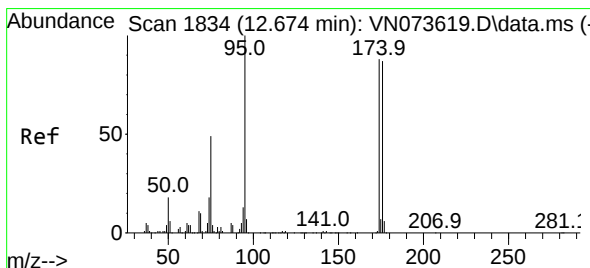
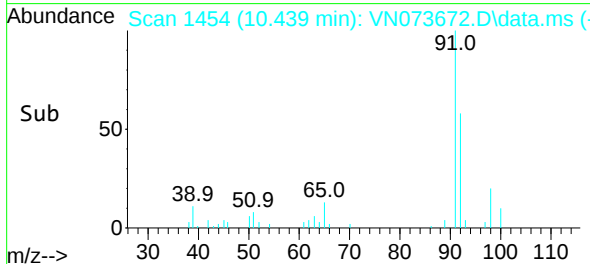
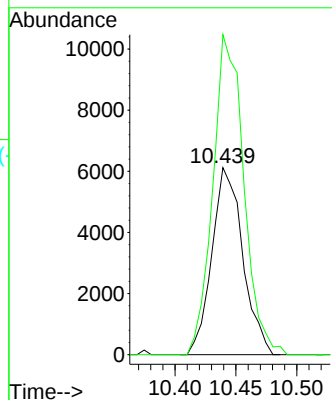
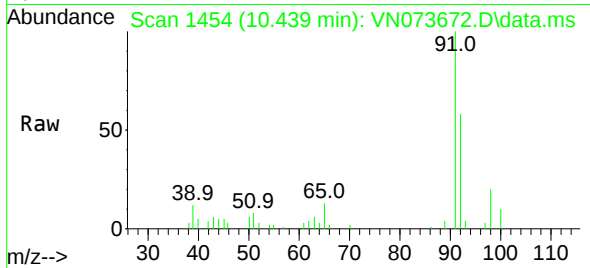




#52
Toluene
Concen: 1.074 ug/l
RT: 10.439 min Scan# 1455
Delta R.T. -0.006 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

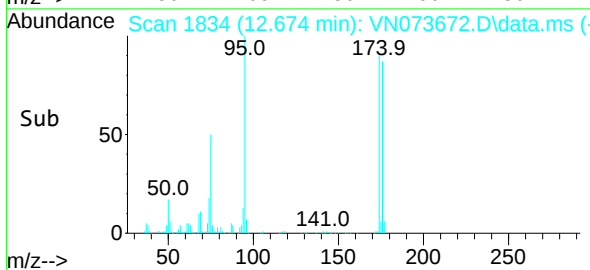
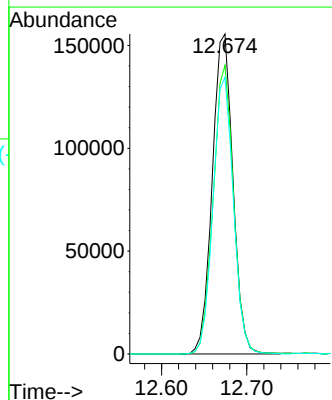
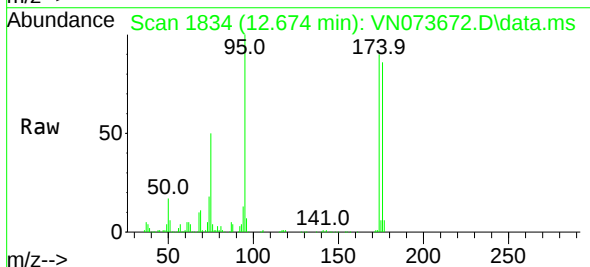
Instrument :
MSVOA_N
ClientSampleId :
HMGP-SOIL-B

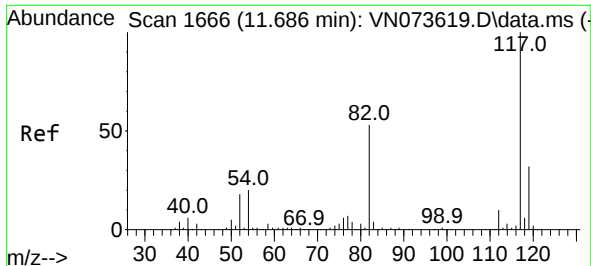
Tgt Ion: 92 Resp: 10791
Ion Ratio Lower Upper
92 100
91 171.5 138.6 207.8



#62
4-Bromofluorobenzene
Concen: 55.095 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

Tgt Ion: 95 Resp: 262522
Ion Ratio Lower Upper
95 100
174 88.4 0.0 167.6
176 85.1 0.0 163.4

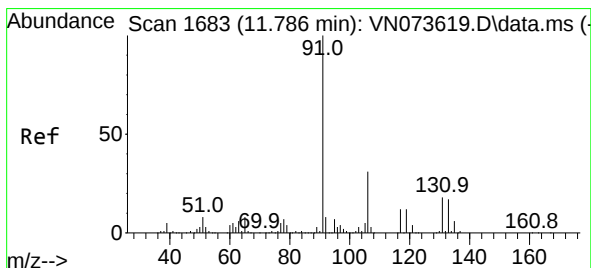
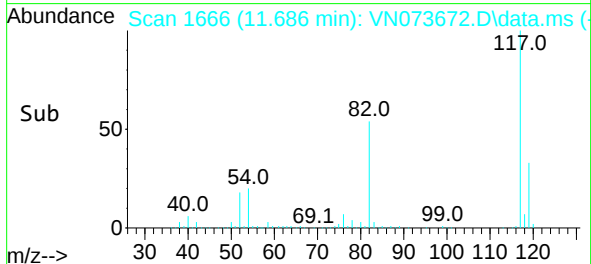
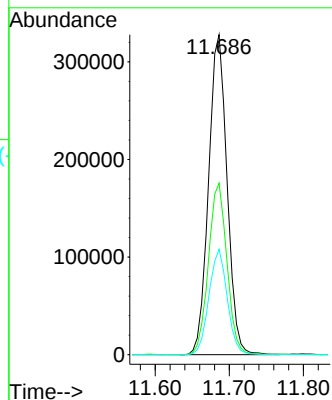
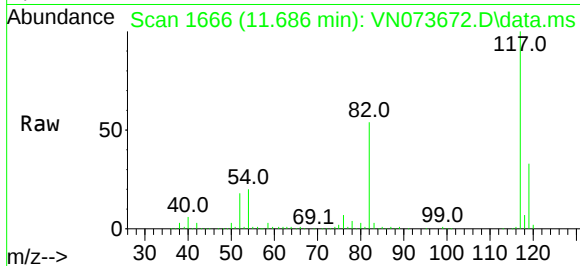




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

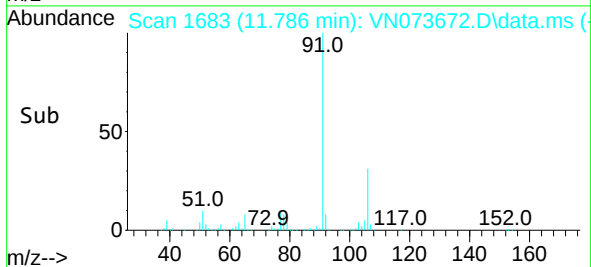
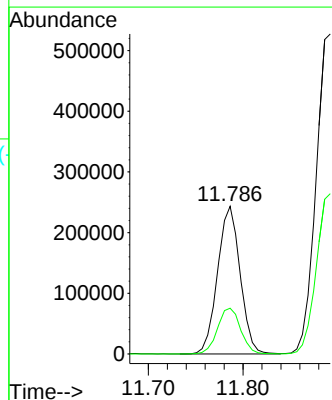
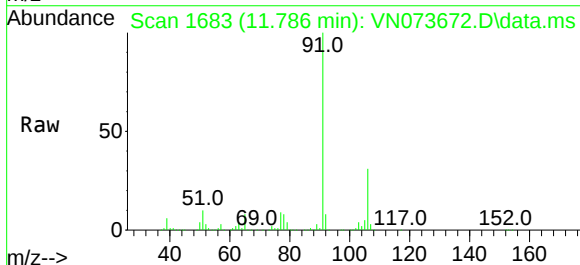
Instrument :
MSVOA_N
ClientSampleId :
HMGP-SOIL-B

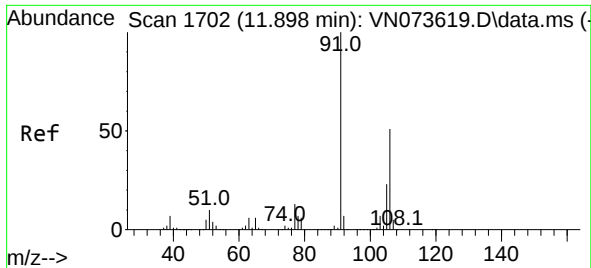
Tgt Ion:117 Resp: 568342
Ion Ratio Lower Upper
117 100
82 53.6 44.2 66.2
119 33.0 25.4 38.0



#67
Ethyl Benzene
Concen: 19.792 ug/l
RT: 11.786 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

Tgt Ion: 91 Resp: 403081
Ion Ratio Lower Upper
91 100
106 31.0 24.9 37.3

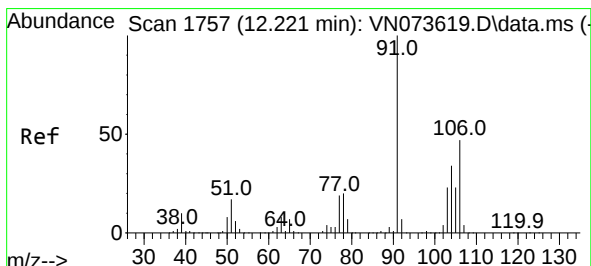
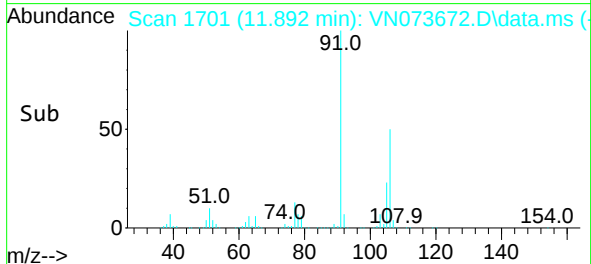
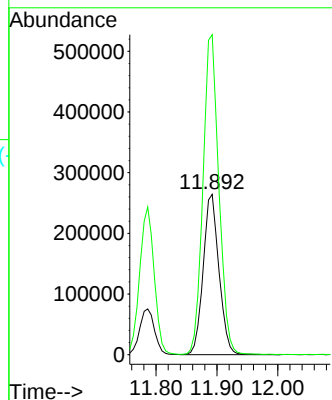
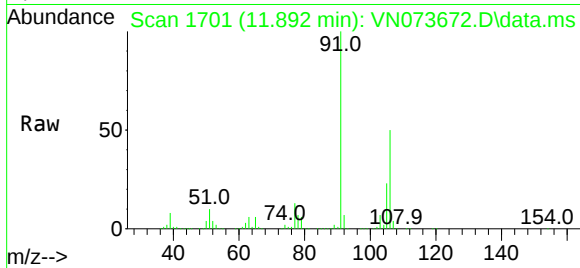




#68
m/p-Xylenes
Concen: 61.333 ug/l
RT: 11.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

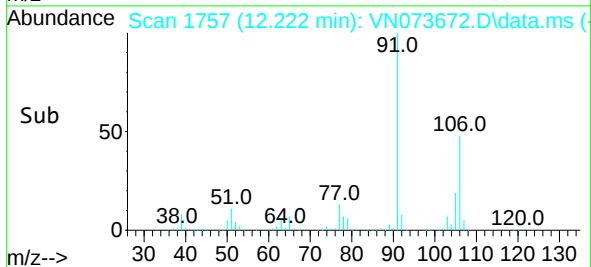
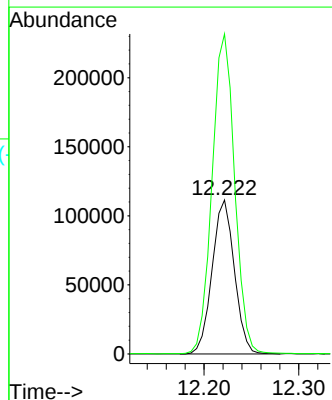
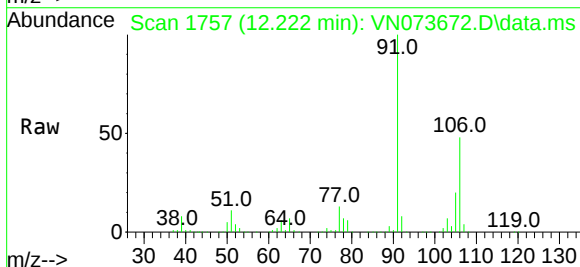
Instrument :
MSVOA_N
ClientSampleId :
HMGP-SOIL-B

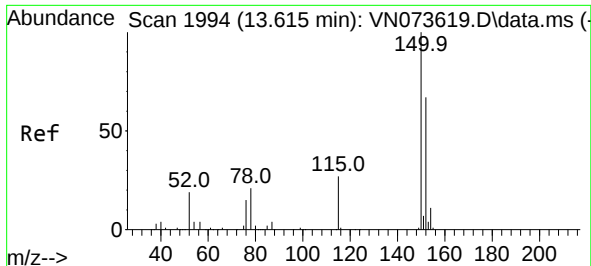
Tgt Ion:106 Resp: 476413
Ion Ratio Lower Upper
106 100
91 200.1 158.9 238.3



#69
o-Xylene
Concen: 23.978 ug/l
RT: 12.222 min Scan# 1757
Delta R.T. 0.000 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

Tgt Ion:106 Resp: 181581
Ion Ratio Lower Upper
106 100
91 211.6 106.0 318.0

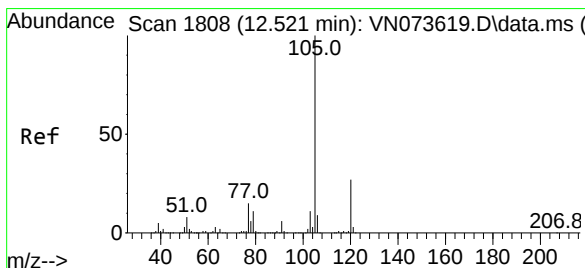
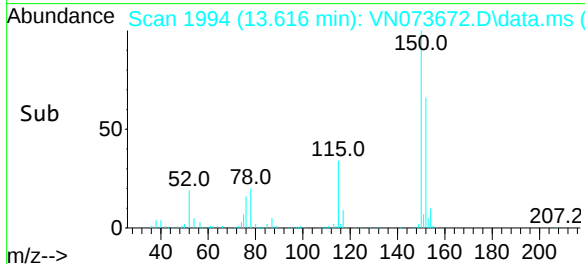
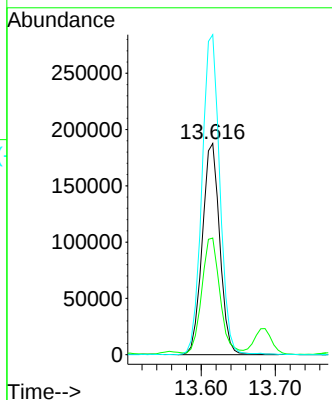
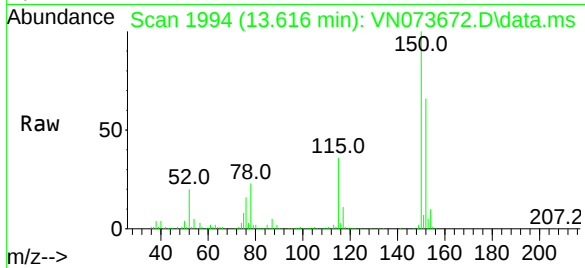




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

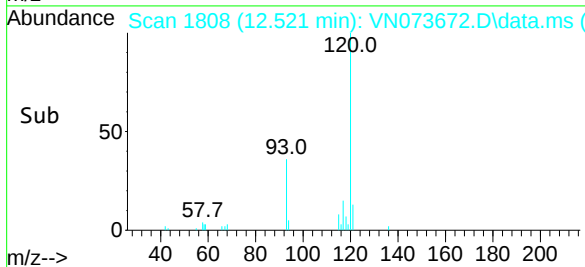
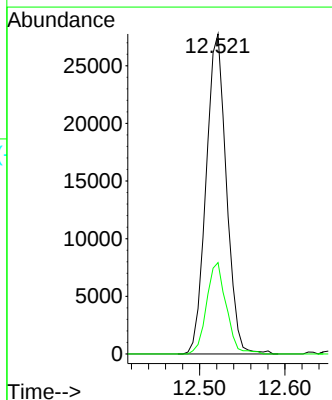
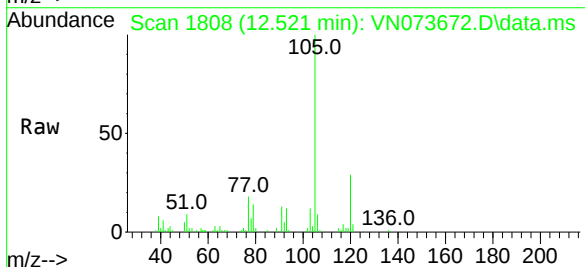
Instrument :
MSVOA_N
ClientSampleId :
HMGP-SOIL-B

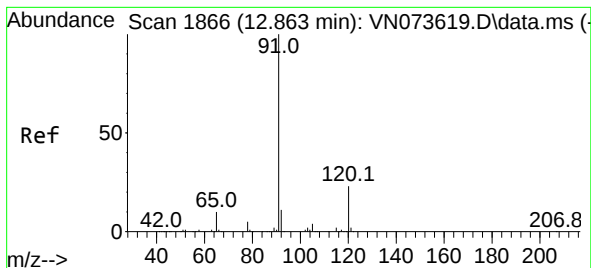
Tgt Ion:152 Resp: 307161
Ion Ratio Lower Upper
152 100
115 57.5 28.9 86.7
150 154.1 0.0 356.2



#73
Isopropylbenzene
Concen: 2.040 ug/l
RT: 12.521 min Scan# 1808
Delta R.T. 0.000 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

Tgt Ion:105 Resp: 45878
Ion Ratio Lower Upper
105 100
120 27.7 13.5 40.4





#78

n-propylbenzene

Concen: 2.668 ug/l

RT: 12.863 min Scan# 1866

Delta R.T. 0.000 min

Lab File: VN073672.D

Acq: 01 Aug 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

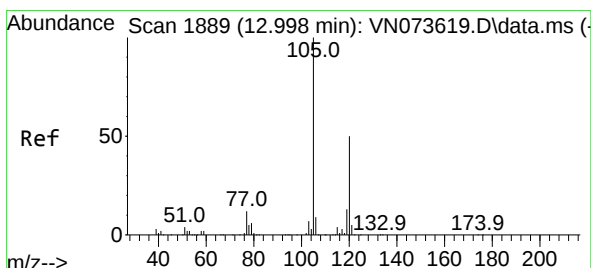
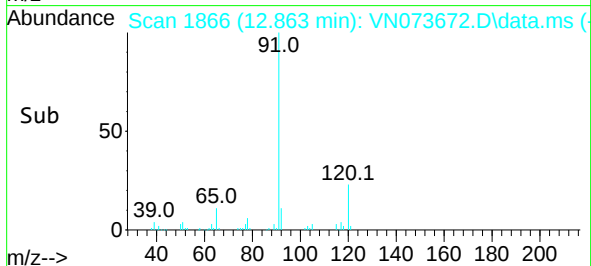
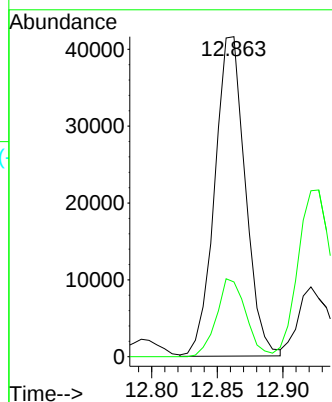
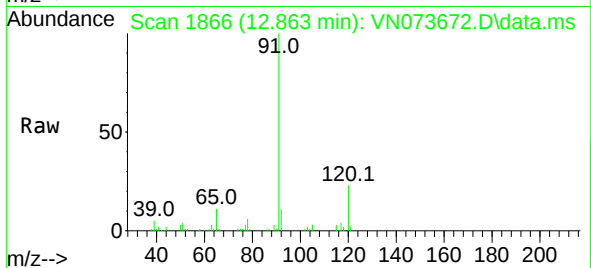
HMGP-SOIL-B

Tgt Ion: 91 Resp: 67495

Ion Ratio Lower Upper

91 100

120 23.4 11.9 35.5



#80

1,3,5-Trimethylbenzene

Concen: 8.943 ug/l

RT: 12.998 min Scan# 1889

Delta R.T. 0.000 min

Lab File: VN073672.D

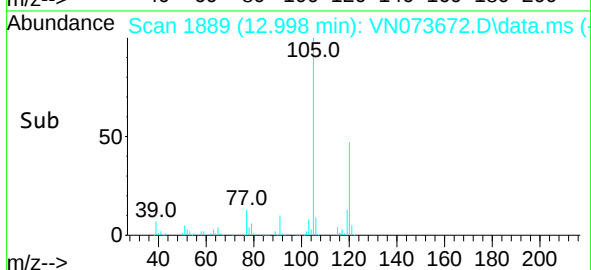
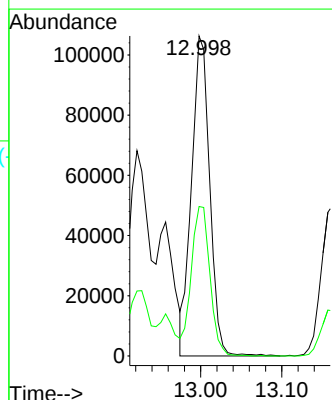
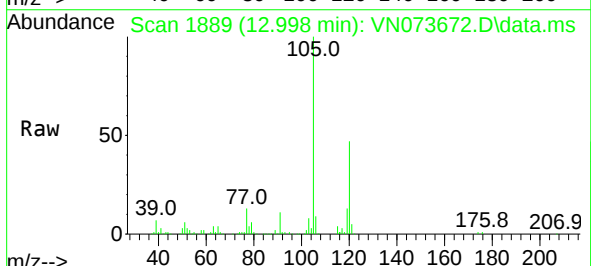
Acq: 01 Aug 2022 20:13

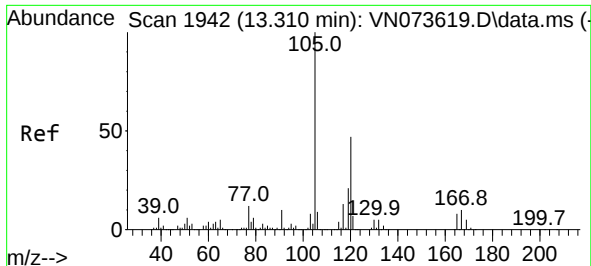
Tgt Ion:105 Resp: 165475

Ion Ratio Lower Upper

105 100

120 48.2 24.9 74.7

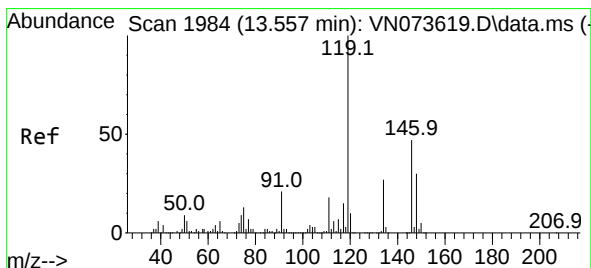
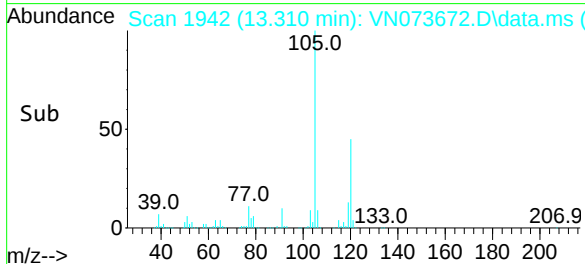
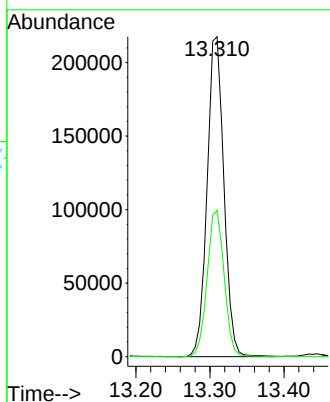
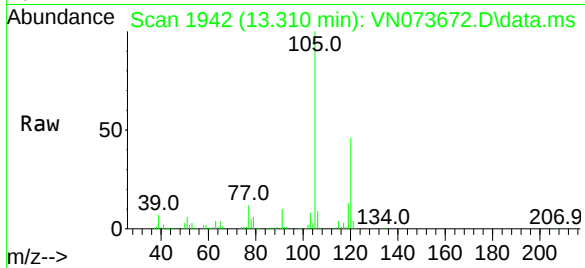




#84
1,2,4-Trimethylbenzene
Concen: 18.823 ug/l
RT: 13.310 min Scan# 1942
Delta R.T. 0.000 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

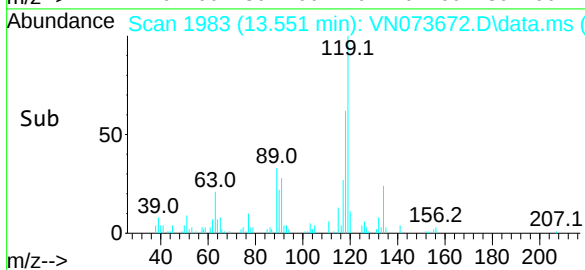
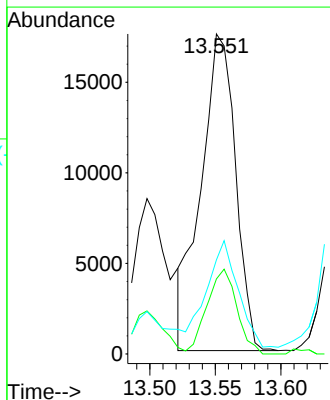
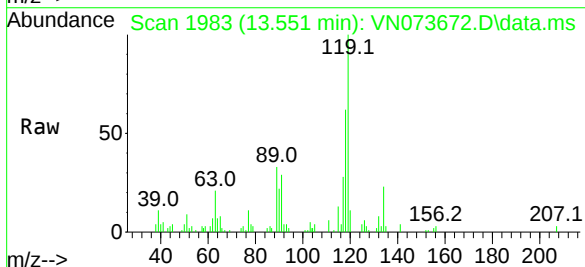
Instrument :
MSVOA_N
ClientSampleId :
HMGP-SOIL-B

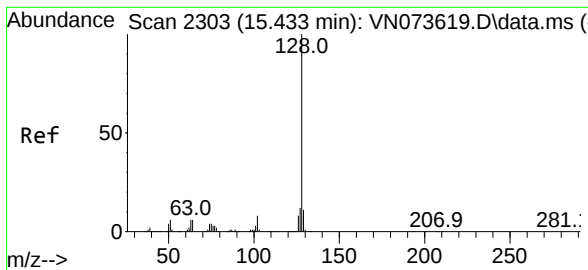
Tgt Ion:105 Resp: 342473
Ion Ratio Lower Upper
105 100
120 46.3 23.3 69.8



#86
p-Isopropyltoluene
Concen: 1.803 ug/l
RT: 13.551 min Scan# 1983
Delta R.T. -0.006 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

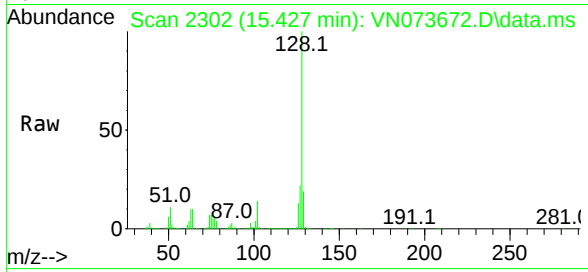
Tgt Ion:119 Resp: 32189
Ion Ratio Lower Upper
119 100
134 23.0 13.3 39.8
91 30.4 11.3 33.9





#95
Naphthalene
Concen: 1248.036 ug/l
RT: 15.427 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN073672.D
Acq: 01 Aug 2022 20:13

Instrument :
MSVOA_N
ClientSampleId :
HMGP-SOIL-B



Tgt Ion:128 Resp:21782535
Ion Ratio Lower Upper
128 100
127 20.0 10.3 15.5#
129 16.9 8.6 13.0#

