

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062422\
 Data File : VN073082.D
 Acq On : 24 Jun 2022 14:22
 Operator : JC\MD
 Sample : N3376-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 220615003-01-VOA

Quant Time: Jun 24 23:34:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 24 04:54:59 2022
 Response via : Initial Calibration

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

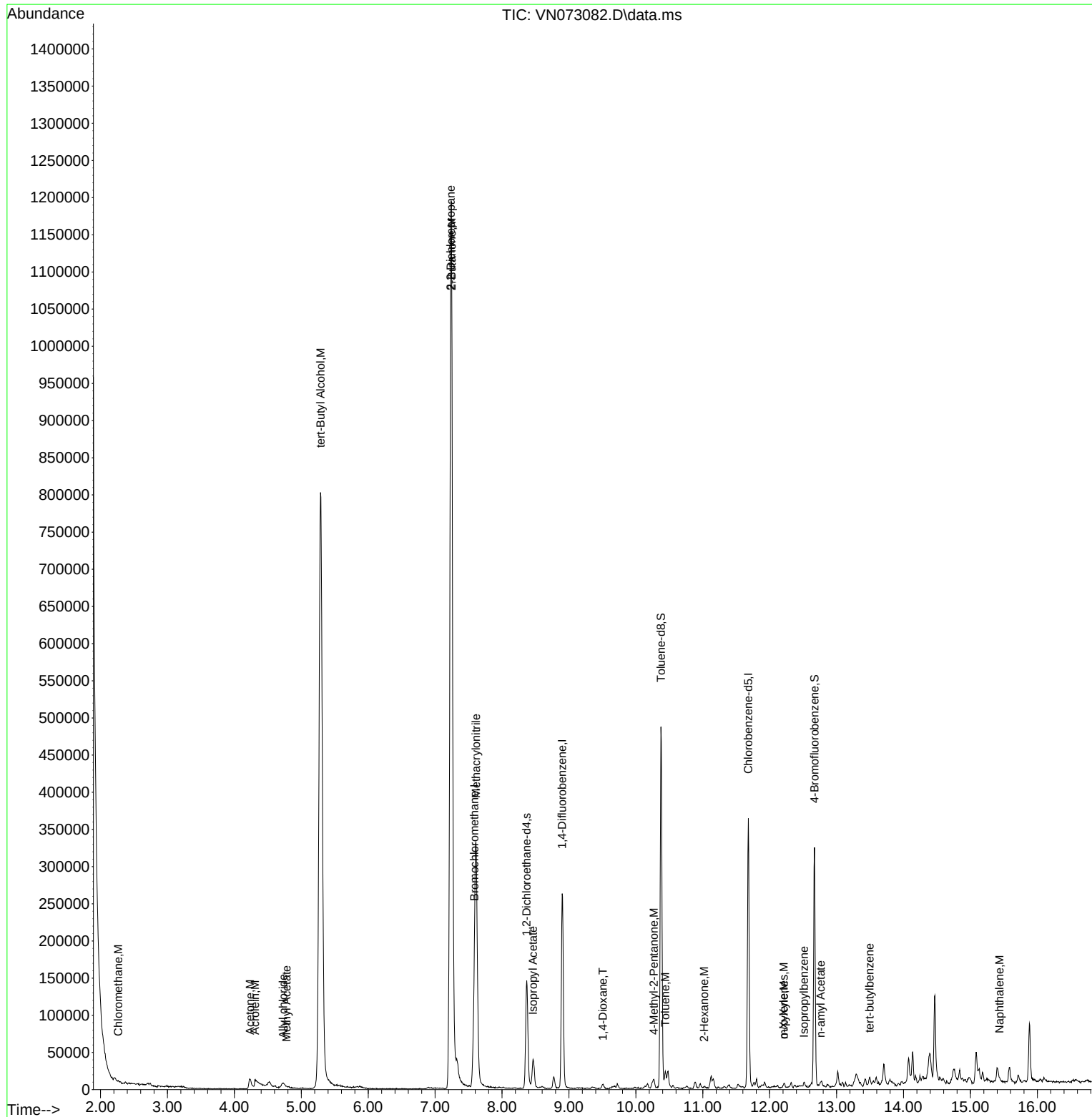
Internal Standards						
1) Bromochloromethane	7.587	128	41220	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.898	114	233586	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.681	117	200907	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	120427	30.307	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.033%
60) 4-Bromofluorobenzene	12.669	95	110380	28.716	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.733%
63) Toluene-d8	10.375	98	334325	30.730	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.433%
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	638	0.206	ug/l	89
12) Methyl Acetate	4.781	43	1516	0.256	ug/l #	66
13) Acrolein	4.310	56	568	0.953	ug/l #	14
15) Acetone	4.234	58	5773	9.294	ug/l	72
17) Allyl chloride	4.728	41	12055	2.238	ug/l #	32
23) tert-Butyl Alcohol	5.287	59	1532494	1666.614	ug/l #	100
30) 2-Butanone	7.245	43	66633	20.487	ug/l #	71
31) 2,2-Dichloropropane	7.234	77	78476	37.962	ug/l #	53
35) Methacrylonitrile	7.610	41	143610	49.632	ug/l #	41
44) Isopropyl Acetate	8.463	43	8810	0.931	ug/l #	50
45) 1,4-Dioxane	9.504	88	3951	46.885	ug/l #	76
47) n-amyl Acetate	12.763	43	1728	0.228	ug/l	95
58) 4-Methyl-2-Pentanone	10.269	43	11676	1.998	ug/l #	80
59) 2-Hexanone	11.022	43	1899	0.425	ug/l #	83
62) Toluene	10.439	91	13146	0.984	ug/l	97
67) m/p-Xylenes	12.210	106	1239	0.225	ug/l	93
68) o-Xylene	12.210	106	1239	0.222	ug/l	99
70) Isopropylbenzene	12.516	105	3048	0.214	ug/l	89
79) tert-butylbenzene	13.492	119	5162	0.493	ug/l	55
91) Naphthalene	15.433	128	4361	0.347	ug/l #	87

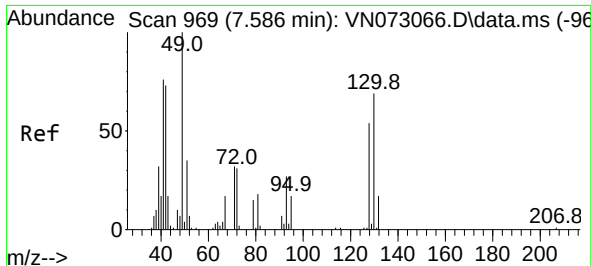
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062322W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jun 24 04:54:59 2022
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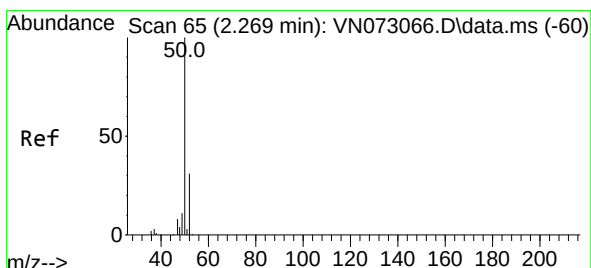
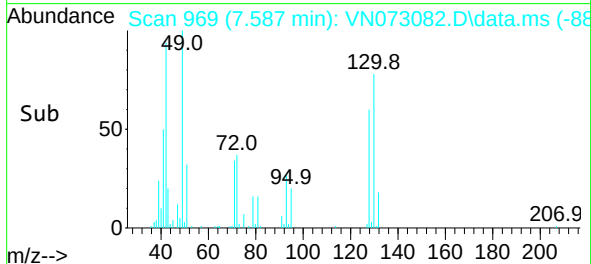
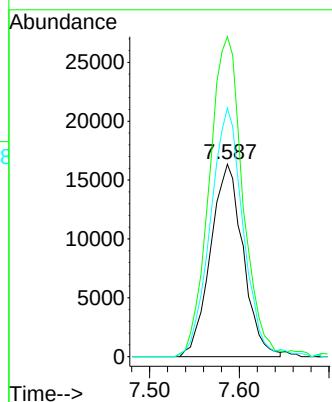
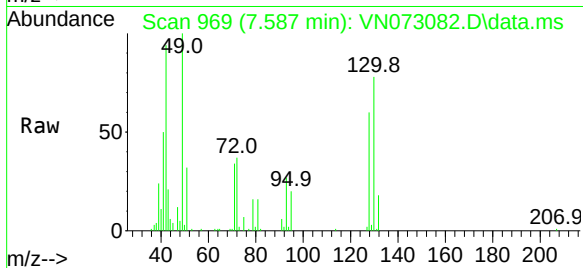




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.587 min Scan# 90
Delta R.T. 0.001 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

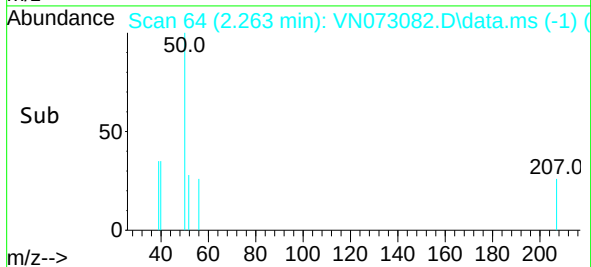
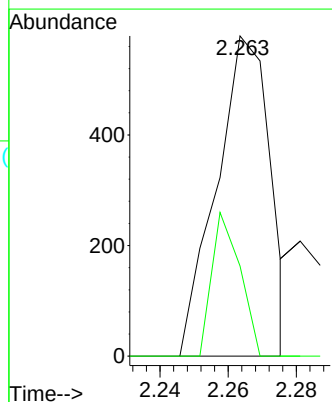
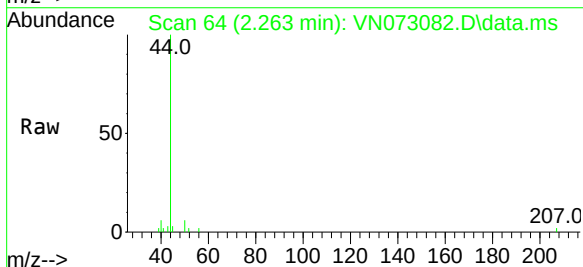
Instrument :
MSVOA_N
ClientSampleId :
220615003-01-VOA

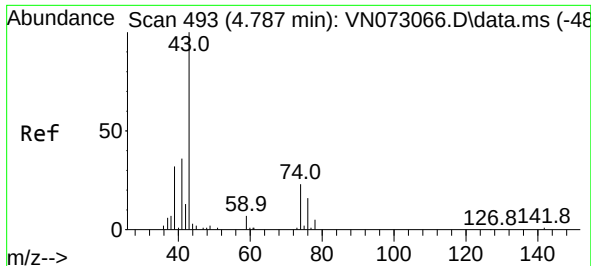
Tgt Ion:128 Resp: 41220
Ion Ratio Lower Upper
128 100
49 171.0 0.0 392.3
130 128.6 0.0 320.2



#3
Chloromethane
Concen: 0.206 ug/l
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Tgt Ion: 50 Resp: 638
Ion Ratio Lower Upper
50 100
52 28.2 27.8 41.6

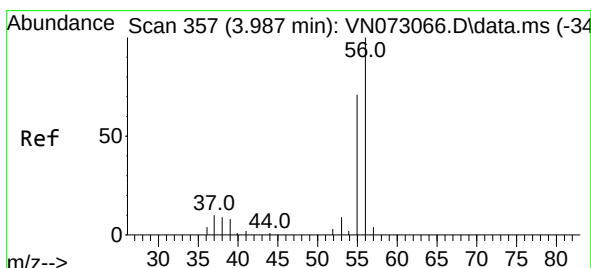
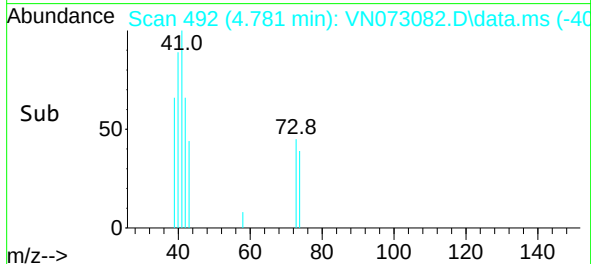
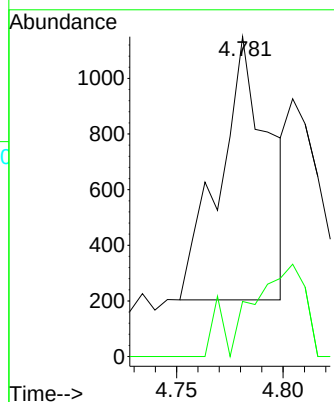
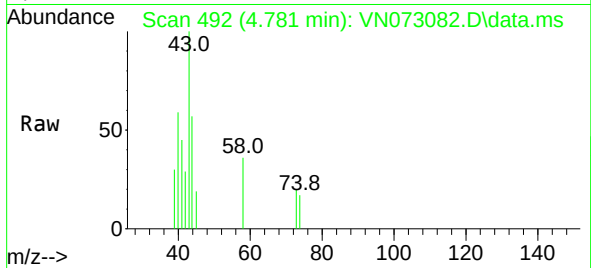




#12
Methyl Acetate
Concen: 0.256 ug/l
RT: 4.781 min Scan# 493
Delta R.T. -0.006 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

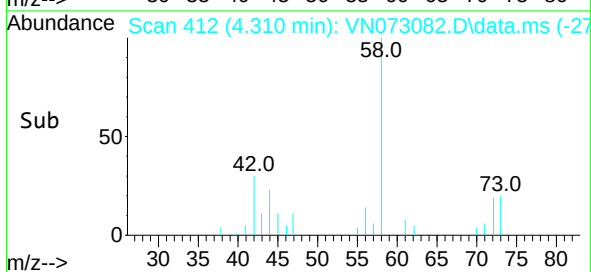
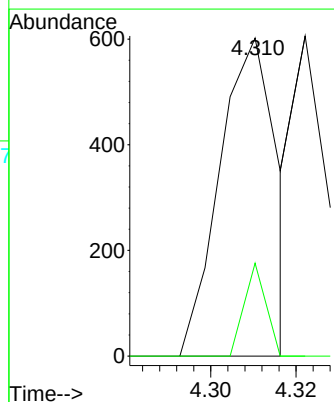
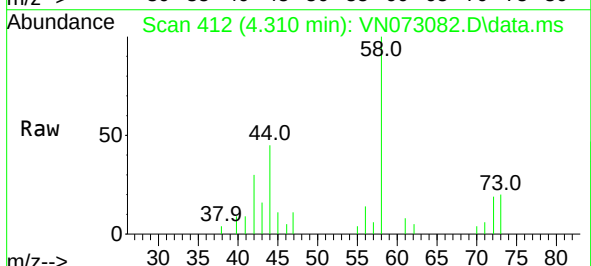
Instrument :
MSVOA_N
ClientSampleId :
220615003-01-VOA

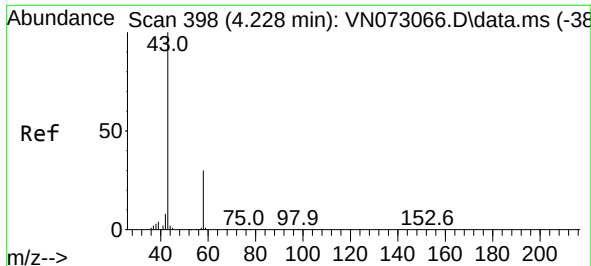
Tgt Ion: 43 Resp: 1516
Ion Ratio Lower Upper
43 100
74 8.8 20.8 31.2#



#13
Acrolein
Concen: 0.953 ug/l
RT: 4.310 min Scan# 412
Delta R.T. 0.324 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Tgt Ion: 56 Resp: 568
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#





#15

Acetone

Concen: 9.294 ug/l

RT: 4.234 min Scan# 399

Delta R.T. 0.006 min

Lab File: VN073082.D

Acq: 24 Jun 2022 14:22

Instrument :

MSVOA_N

ClientSampleId :

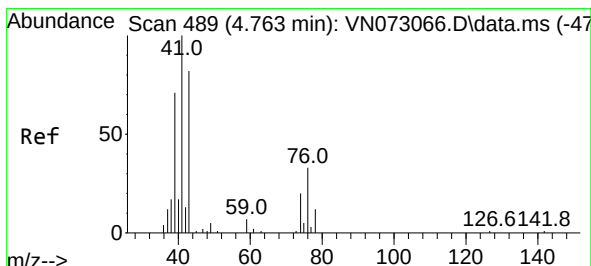
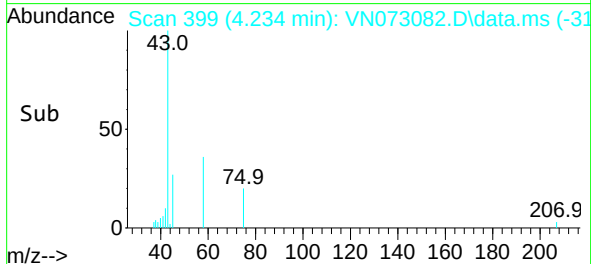
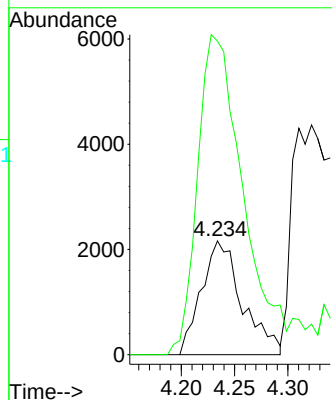
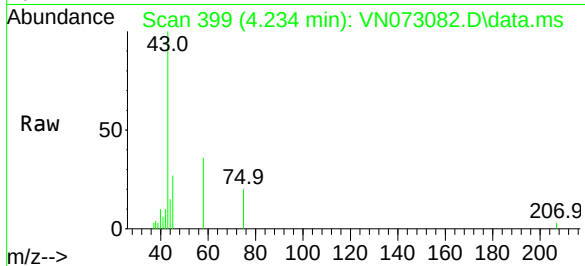
220615003-01-VOA

Tgt Ion: 58 Resp: 5773

Ion Ratio Lower Upper

58 100

43 263.2 256.6 384.8



#17

Allyl chloride

Concen: 2.238 ug/l

RT: 4.728 min Scan# 483

Delta R.T. -0.035 min

Lab File: VN073082.D

Acq: 24 Jun 2022 14:22

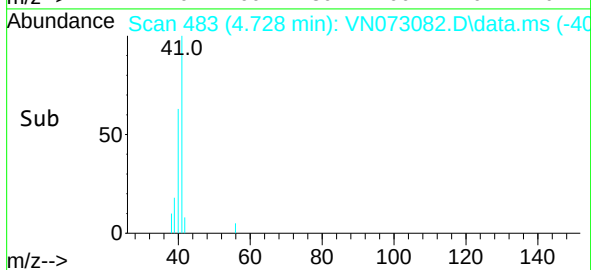
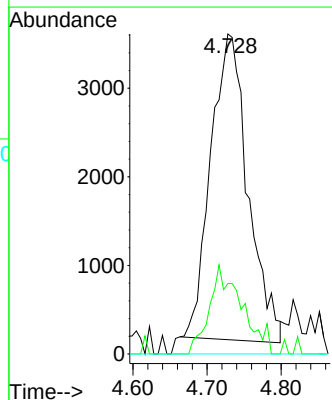
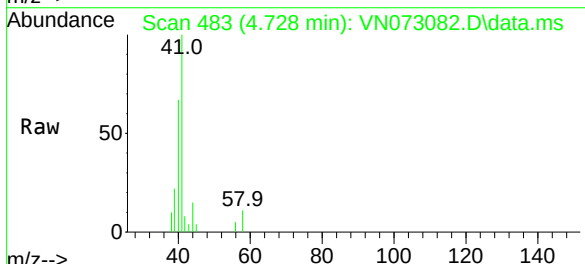
Tgt Ion: 41 Resp: 12055

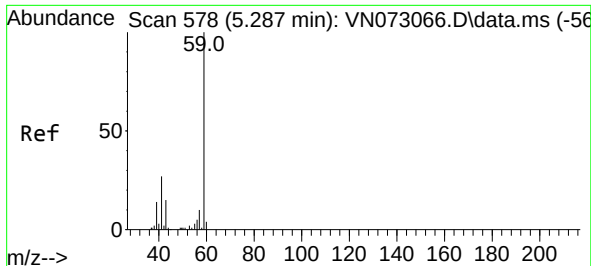
Ion Ratio Lower Upper

41 100

39 23.3 44.6 134.0#

76 0.0 19.6 58.7#

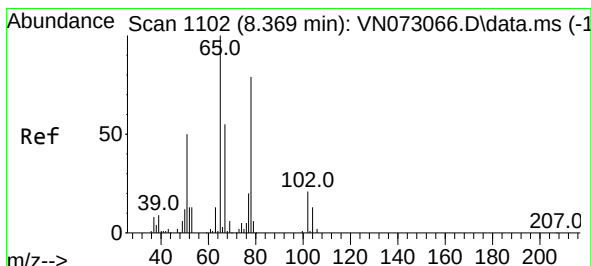
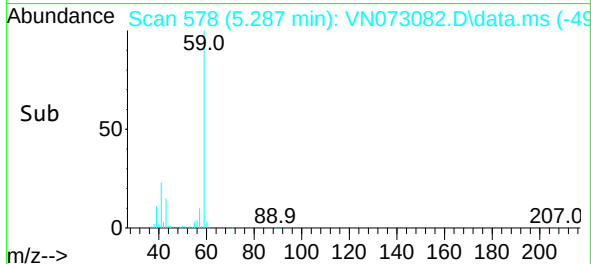
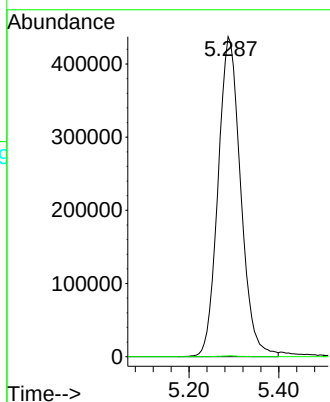
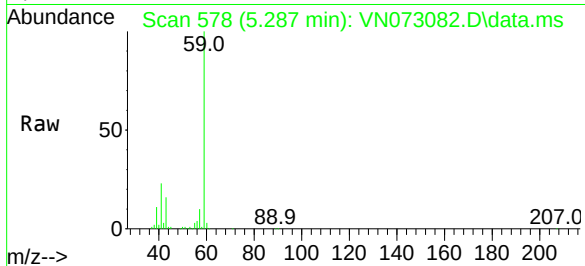




#23
tert-Butyl Alcohol
Concen: 1666.614 ug/l
RT: 5.287 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

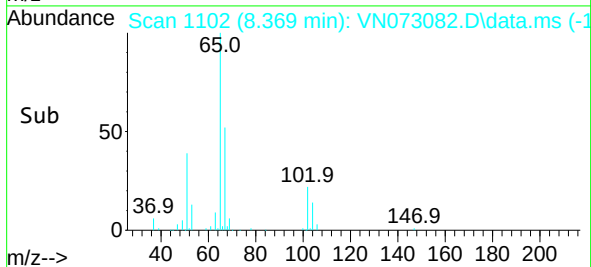
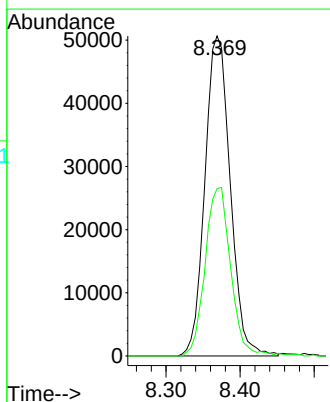
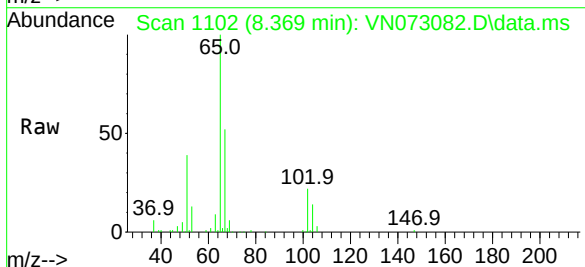
Instrument :
MSVOA_N
ClientSampleId :
220615003-01-VOA

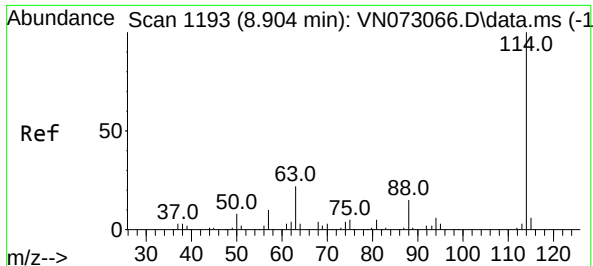
Tgt Ion: 59 Resp: 1532494
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0#



#27
1,2-Dichloroethane-d4
Concen: 30.307 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Tgt Ion: 65 Resp: 120427
Ion Ratio Lower Upper
65 100
67 52.2 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.898 min Scan# 1192

Delta R.T. -0.006 min

Lab File: VN073082.D

Acq: 24 Jun 2022 14:22

Instrument :

MSVOA_N

ClientSampleId :

220615003-01-VOA

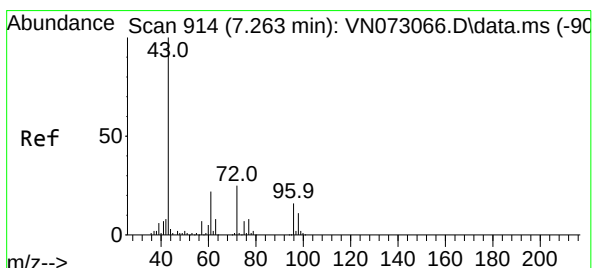
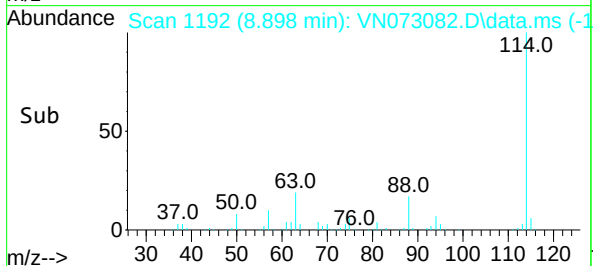
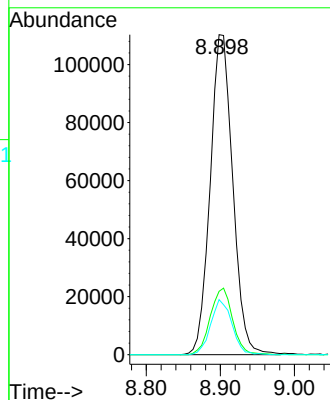
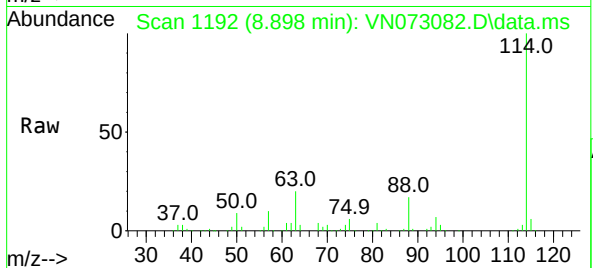
Tgt Ion:114 Resp: 233586

Ion Ratio Lower Upper

114 100

63 20.6 15.8 23.6

88 16.1 11.6 17.4



#30

2-Butanone

Concen: 20.487 ug/l

RT: 7.245 min Scan# 911

Delta R.T. -0.017 min

Lab File: VN073082.D

Acq: 24 Jun 2022 14:22

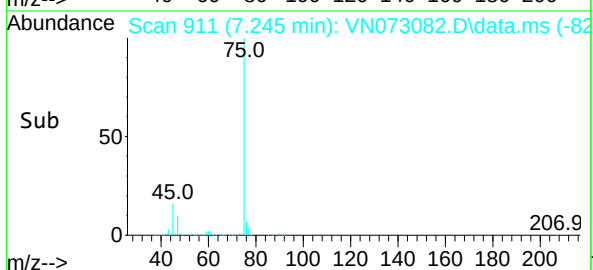
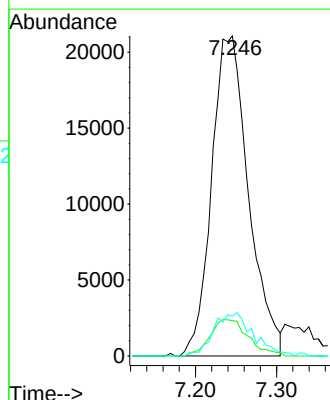
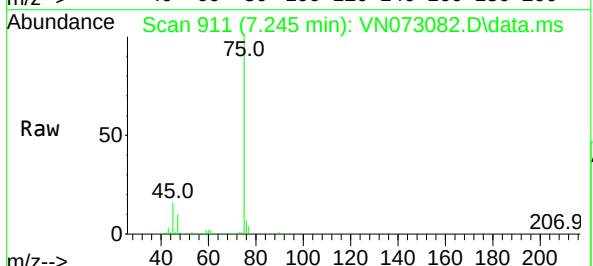
Tgt Ion: 43 Resp: 66633

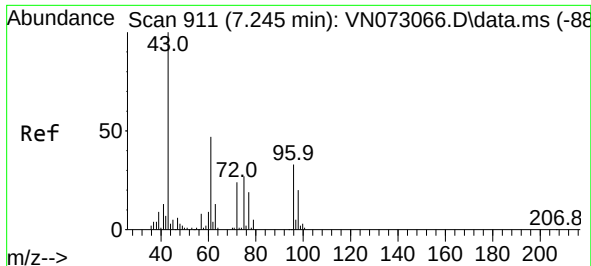
Ion Ratio Lower Upper

43 100

57 11.8 6.7 10.1#

72 10.7 23.2 34.8#





#31

2,2-Dichloropropane

Concen: 37.962 ug/l

RT: 7.234 min Scan# 909

Delta R.T. -0.012 min

Lab File: VN073082.D

Acq: 24 Jun 2022 14:22

Instrument :

MSVOA_N

ClientSampleId :

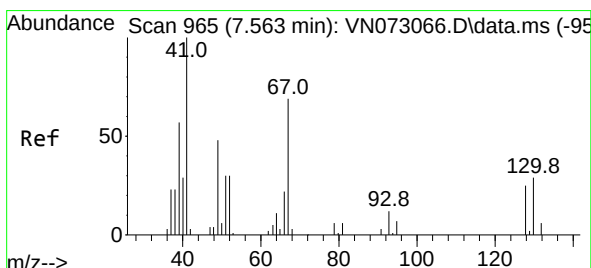
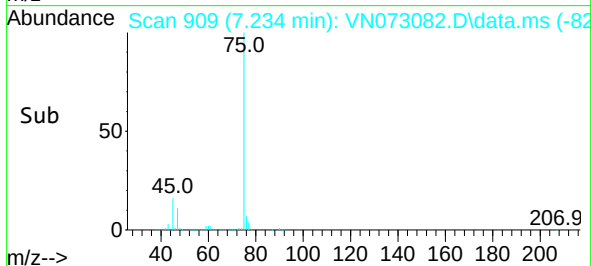
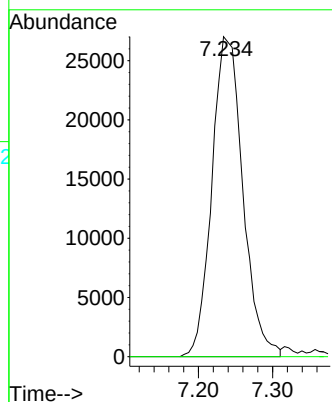
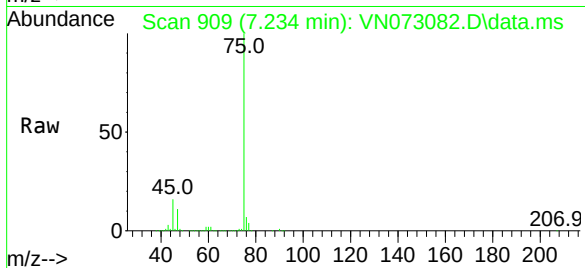
220615003-01-VOA

Tgt Ion: 77 Resp: 78476

Ion Ratio Lower Upper

77 100

97 0.0 18.3 27.5#



#35

Methacrylonitrile

Concen: 49.632 ug/l

RT: 7.610 min Scan# 973

Delta R.T. 0.047 min

Lab File: VN073082.D

Acq: 24 Jun 2022 14:22

Tgt Ion: 41 Resp: 143610

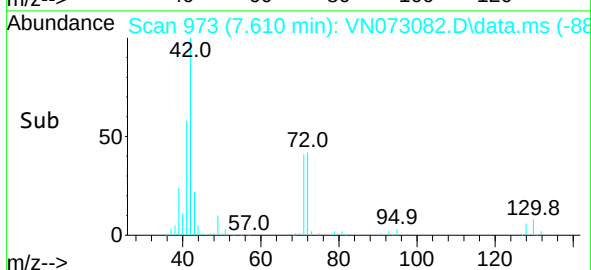
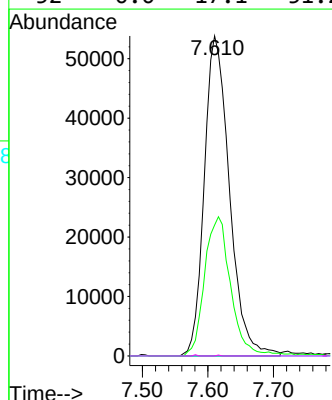
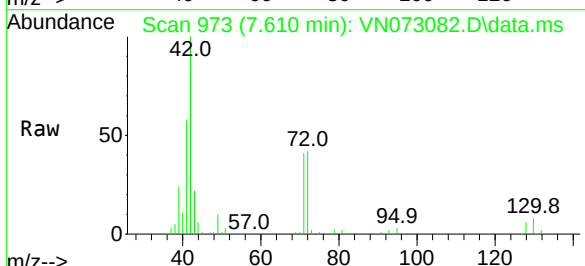
Ion Ratio Lower Upper

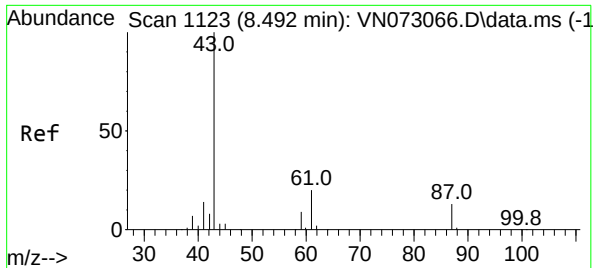
41 100

39 40.9 28.0 83.9

67 0.0 37.7 113.1#

52 0.0 17.1 51.2#

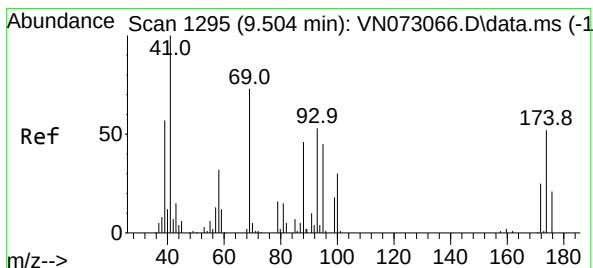
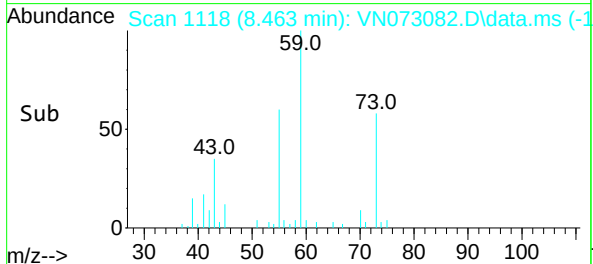
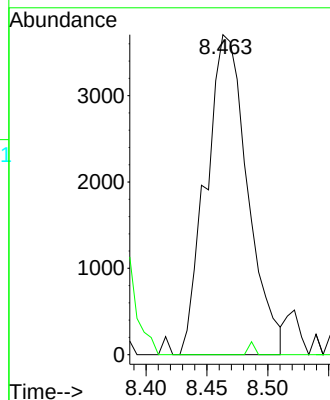
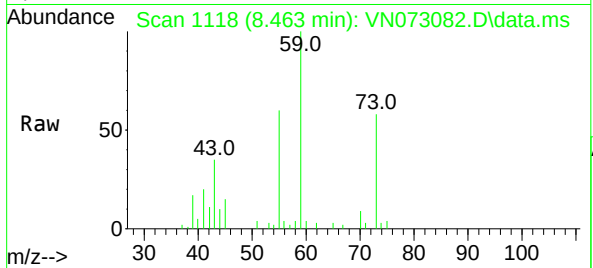




#44
Isopropyl Acetate
Concen: 0.931 ug/l
RT: 8.463 min Scan# 1118
Delta R.T. -0.029 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

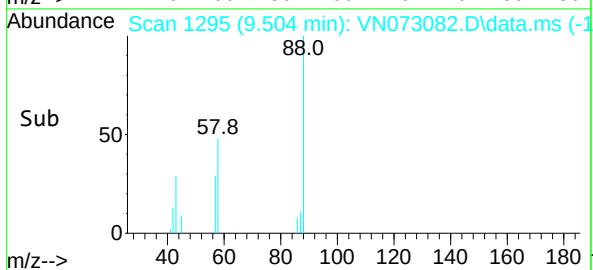
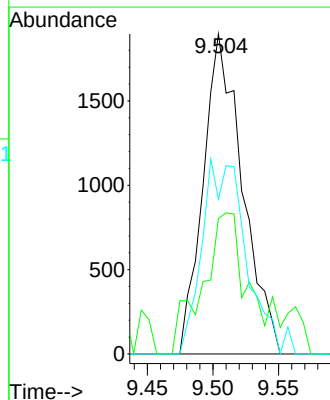
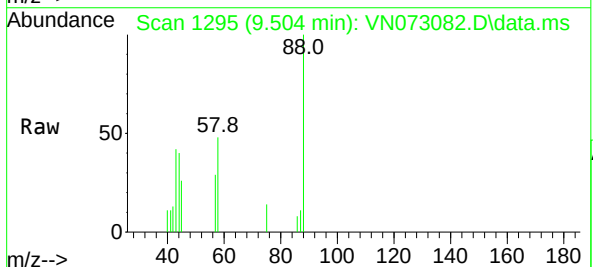
Instrument :
MSVOA_N
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220615003-01-VOA

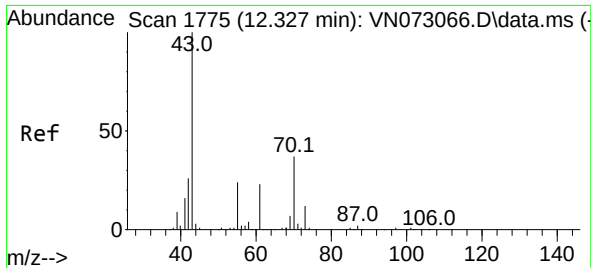
Tgt Ion: 43 Resp: 8810
Ion Ratio Lower Upper
43 100
61 0.0 20.1 30.1#



#45
1,4-Dioxane
Concen: 46.885 ug/l
RT: 9.504 min Scan# 1295
Delta R.T. 0.000 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Tgt Ion: 88 Resp: 3951
Ion Ratio Lower Upper
88 100
43 27.1 25.0 37.6
58 37.3 49.4 74.2#

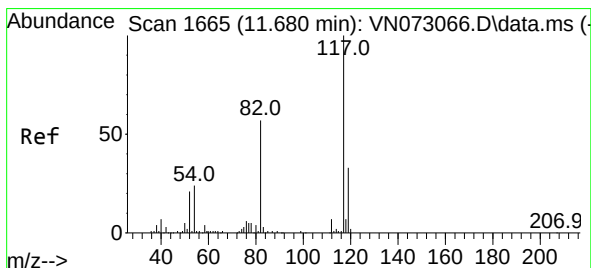
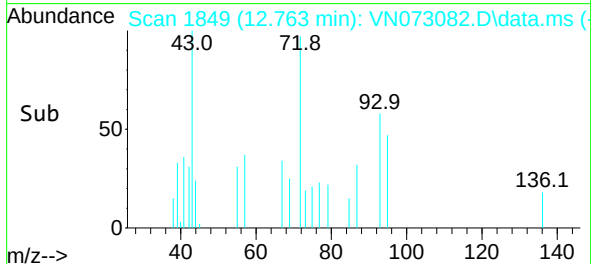
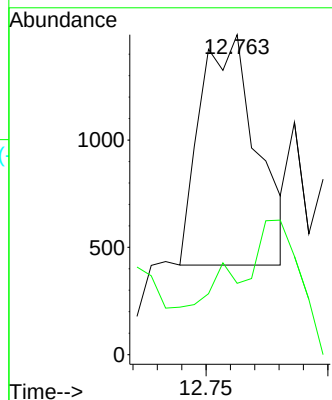
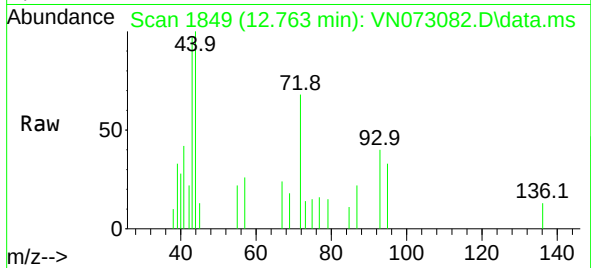




#47
n-amyl acetate
Concen: 0.228 ug/l
RT: 12.763 min Scan# 1849
Delta R.T. 0.435 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

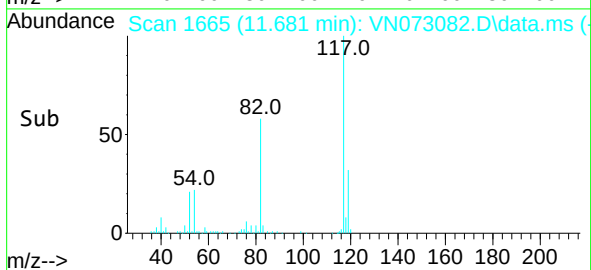
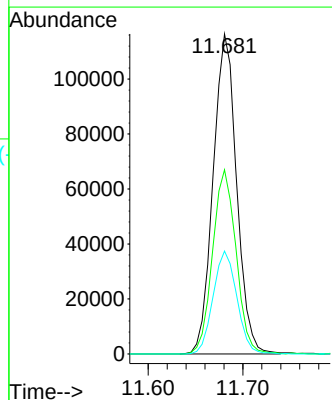
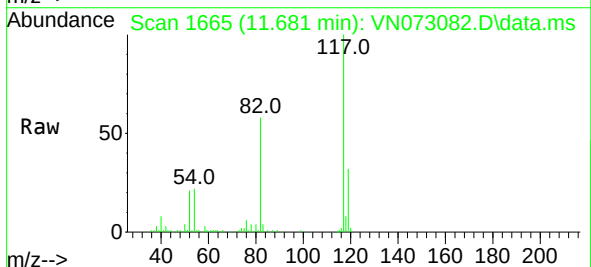
Instrument :
MSVOA_N
ClientSampleId :
220615003-01-VOA

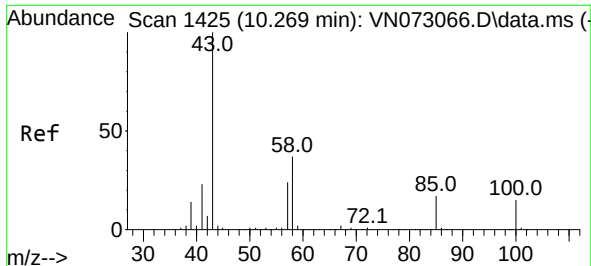
Tgt Ion: 43 Resp: 1728
Ion Ratio Lower Upper
43 100
55 26.1 19.0 28.6



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.681 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Tgt Ion: 117 Resp: 200907
Ion Ratio Lower Upper
117 100
82 57.4 43.6 65.4
119 32.4 25.8 38.6

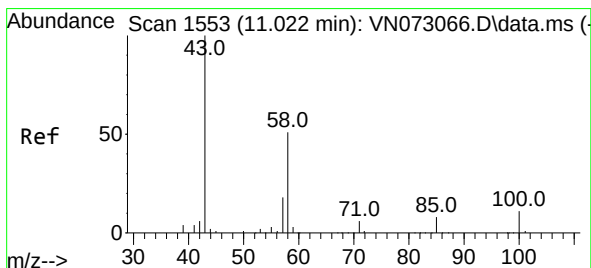
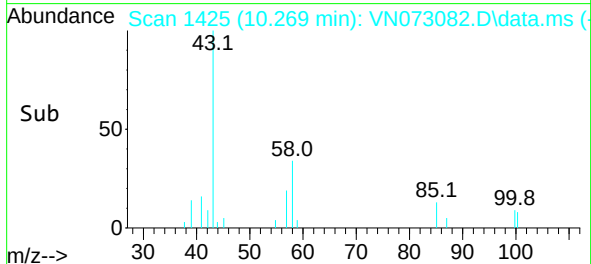
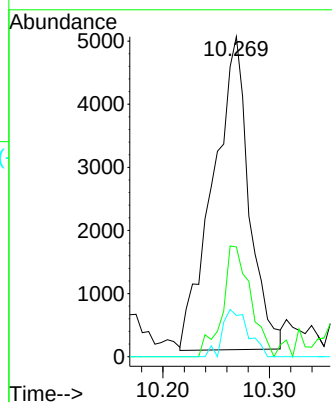
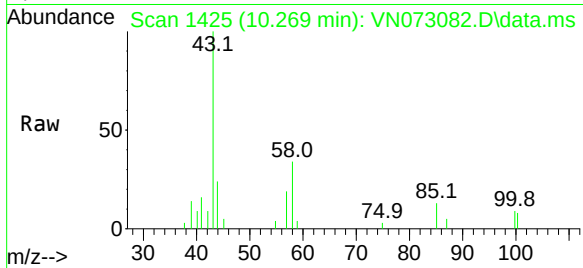




#58
4-Methyl-2-Pentanone
Concen: 1.998 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

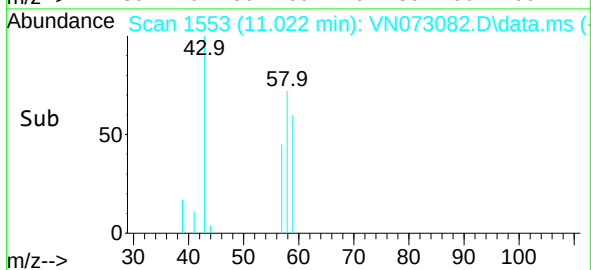
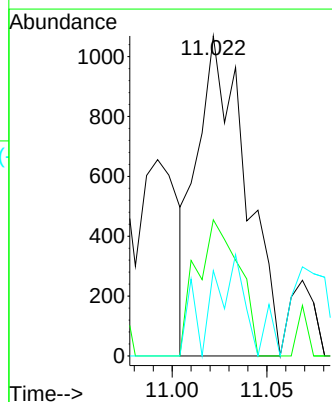
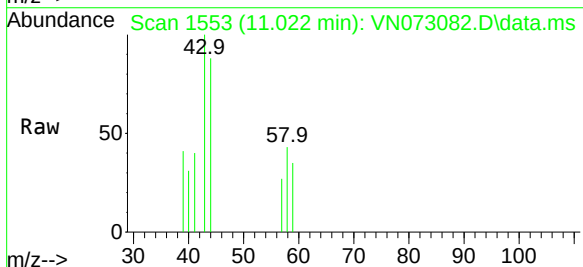
Instrument :
MSVOA_N
ClientSampleId :
220615003-01-VOA

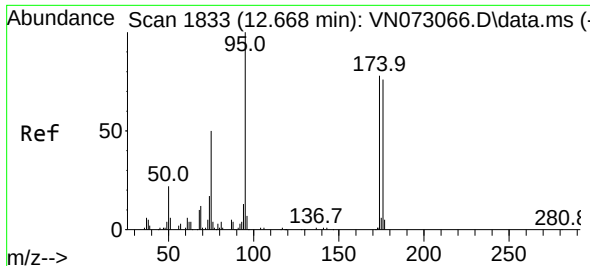
Tgt Ion: 43 Resp: 11676
Ion Ratio Lower Upper
43 100
58 25.4 30.0 45.0#
85 10.2 15.0 22.6#



#59
2-Hexanone
Concen: 0.425 ug/l
RT: 11.022 min Scan# 1553
Delta R.T. 0.000 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Tgt Ion: 43 Resp: 1899
Ion Ratio Lower Upper
43 100
58 37.1 42.2 63.2#
57 17.4 15.0 22.4

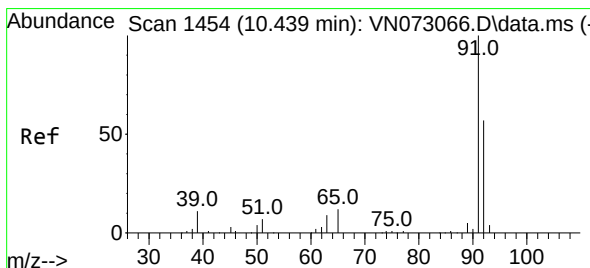
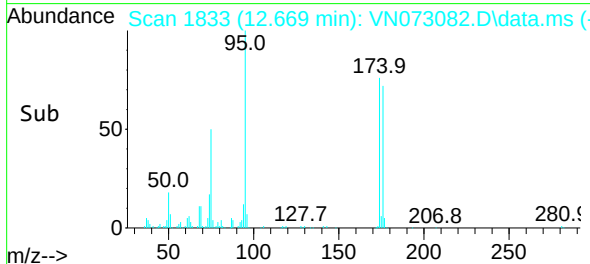
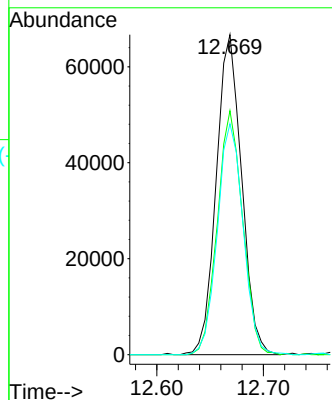
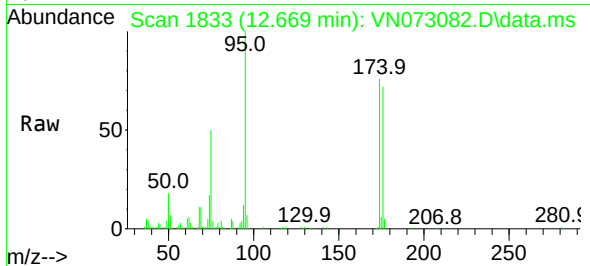




#60
4-Bromofluorobenzene
Concen: 28.716 ug/l
RT: 12.669 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

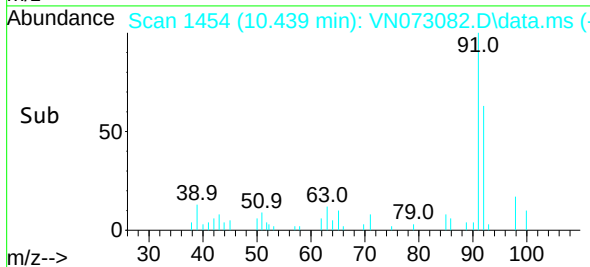
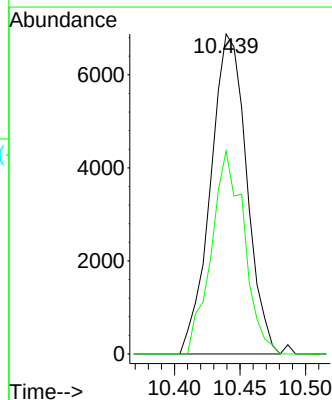
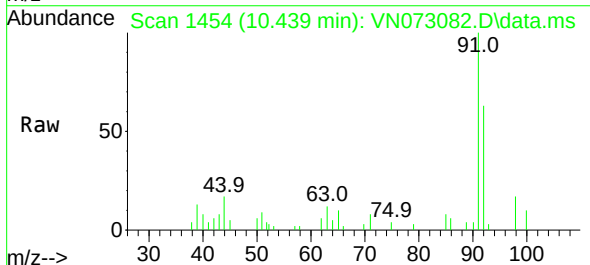
Instrument :
MSVOA_N
ClientSampleId :
220615003-01-VOA

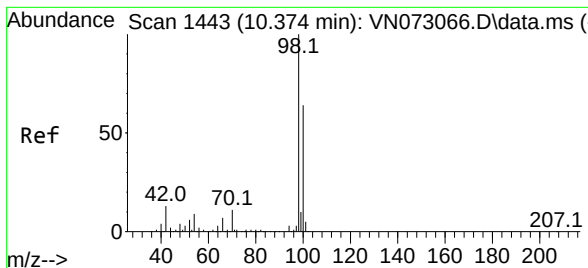
Tgt Ion: 95 Resp: 110380
Ion Ratio Lower Upper
95 100
174 75.9 62.9 94.3
176 73.2 61.0 91.4



#62
Toluene
Concen: 0.984 ug/l
RT: 10.439 min Scan# 1454
Delta R.T. 0.000 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Tgt Ion: 91 Resp: 13146
Ion Ratio Lower Upper
91 100
92 57.9 44.6 67.0





#63

Toluene-d8

Concen: 30.730 ug/l

RT: 10.375 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN073082.D

Acq: 24 Jun 2022 14:22

Instrument :

MSVOA_N

ClientSampleId :

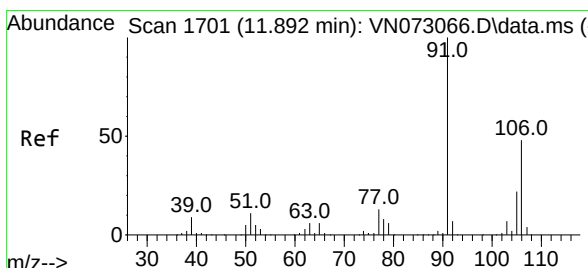
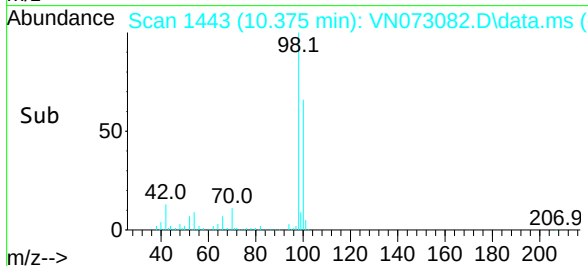
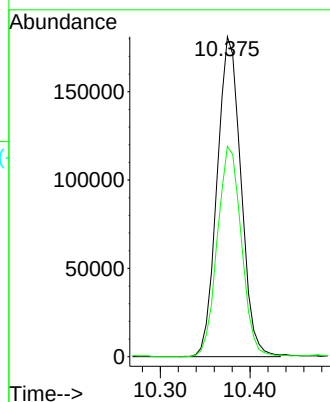
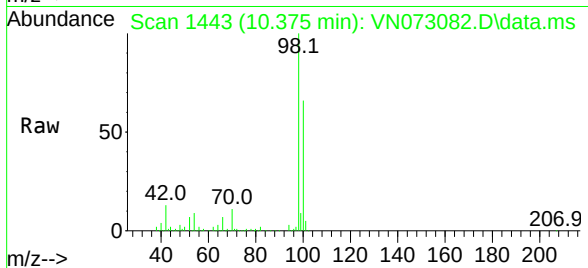
220615003-01-VOA

Tgt Ion: 98 Resp: 334325

Ion Ratio Lower Upper

98 100

100 66.4 50.6 76.0



#67

m/p-Xylenes

Concen: 0.225 ug/l

RT: 12.210 min Scan# 1755

Delta R.T. 0.318 min

Lab File: VN073082.D

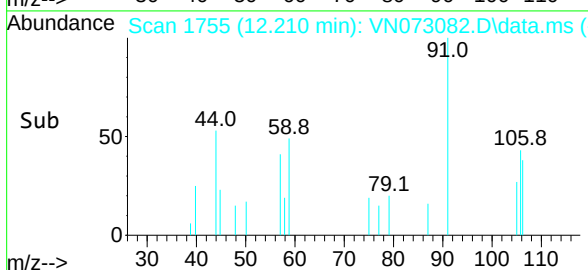
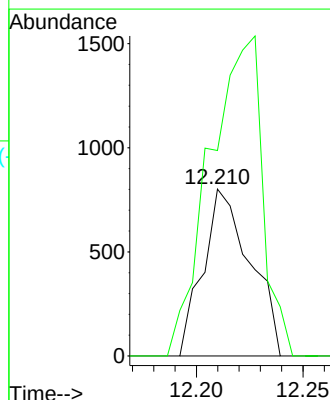
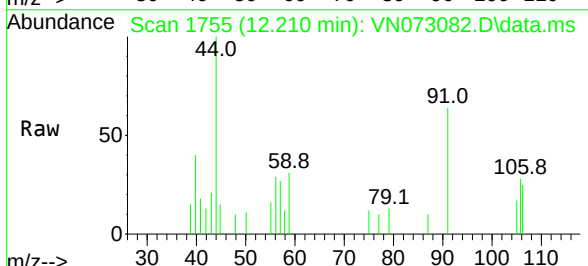
Acq: 24 Jun 2022 14:22

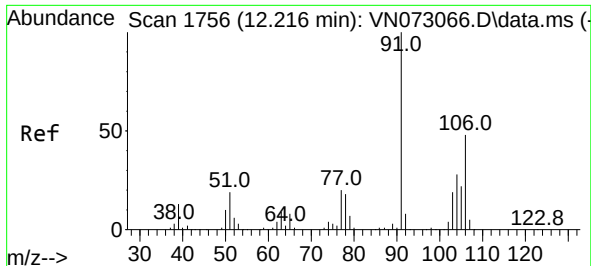
Tgt Ion:106 Resp: 1239

Ion Ratio Lower Upper

106 100

91 213.9 162.9 244.3

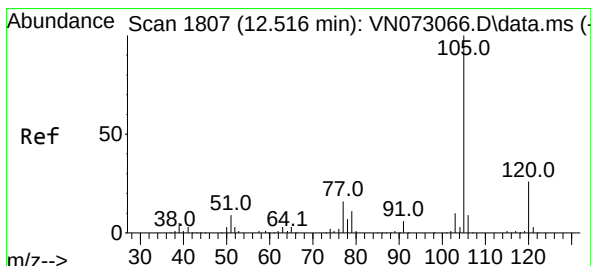
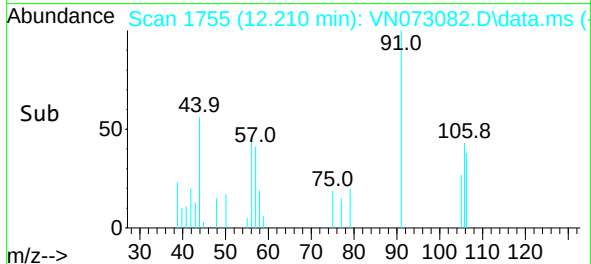
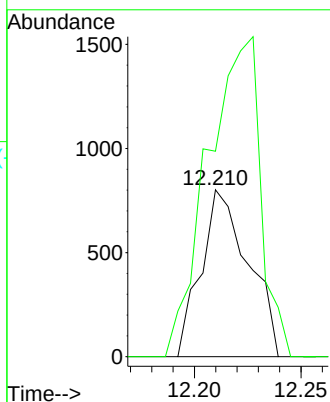
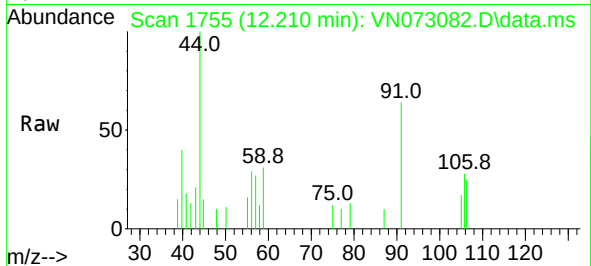




#68
o-Xylene
Concen: 0.222 ug/l
RT: 12.210 min Scan# 1755
Delta R.T. -0.006 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

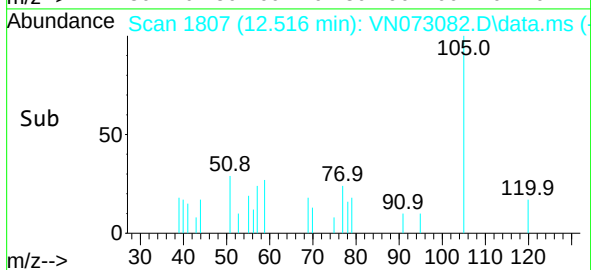
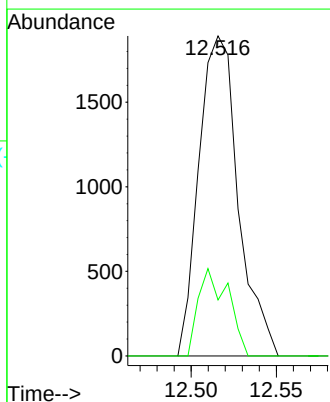
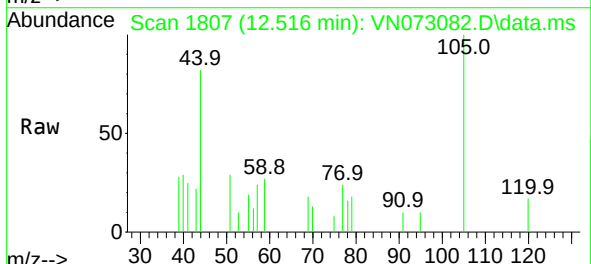
Instrument :
MSVOA_N
ClientSampleId :
220615003-01-VOA

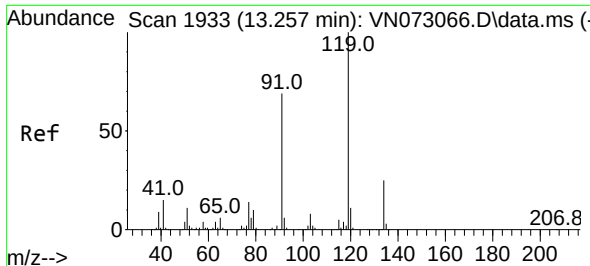
Tgt Ion:106 Resp: 1239
Ion Ratio Lower Upper
106 100
91 213.9 107.7 323.1



#70
Isopropylbenzene
Concen: 0.214 ug/l
RT: 12.516 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Tgt Ion:105 Resp: 3048
Ion Ratio Lower Upper
105 100
120 20.6 18.3 34.1

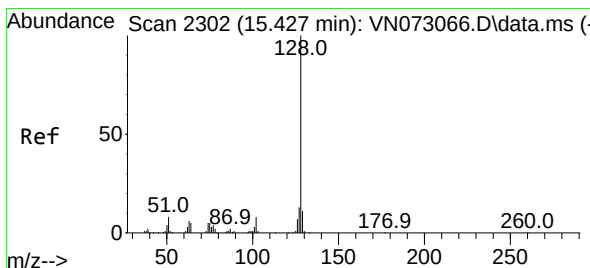
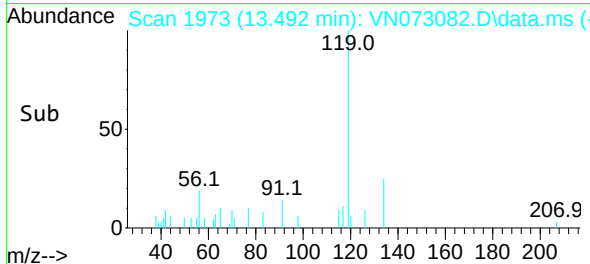
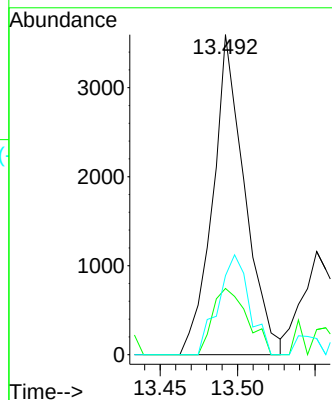
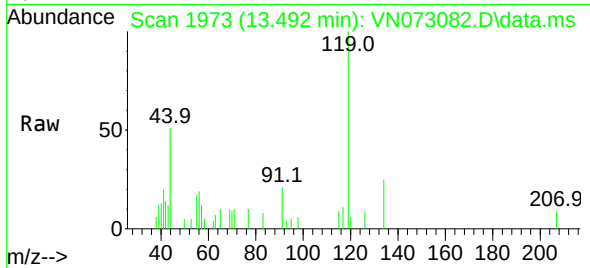




#79
tert-butylbenzene
Concen: 0.493 ug/l
RT: 13.492 min Scan# 1933
Delta R.T. 0.235 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Instrument :
MSVOA_N
ClientSampleId :
220615003-01-VOA

Tgt Ion:	119	Resp:	5162
Ion Ratio	Lower	Upper	
119	100		
91	22.6	0.0	137.0
134	30.1	0.0	47.6



#91
Naphthalene
Concen: 0.347 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. 0.006 min
Lab File: VN073082.D
Acq: 24 Jun 2022 14:22

Tgt Ion:	128	Resp:	4361
Ion Ratio	Lower	Upper	
128	100		
127	8.6	10.7	16.1#
129	5.7	9.0	13.6#

