

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041423\
 Data File : VN077346.D
 Acq On : 14 Apr 2023 12:16
 Operator : JC\MD
 Sample : 02325-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 230412098-02-VOA

Quant Time: Apr 17 05:08:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

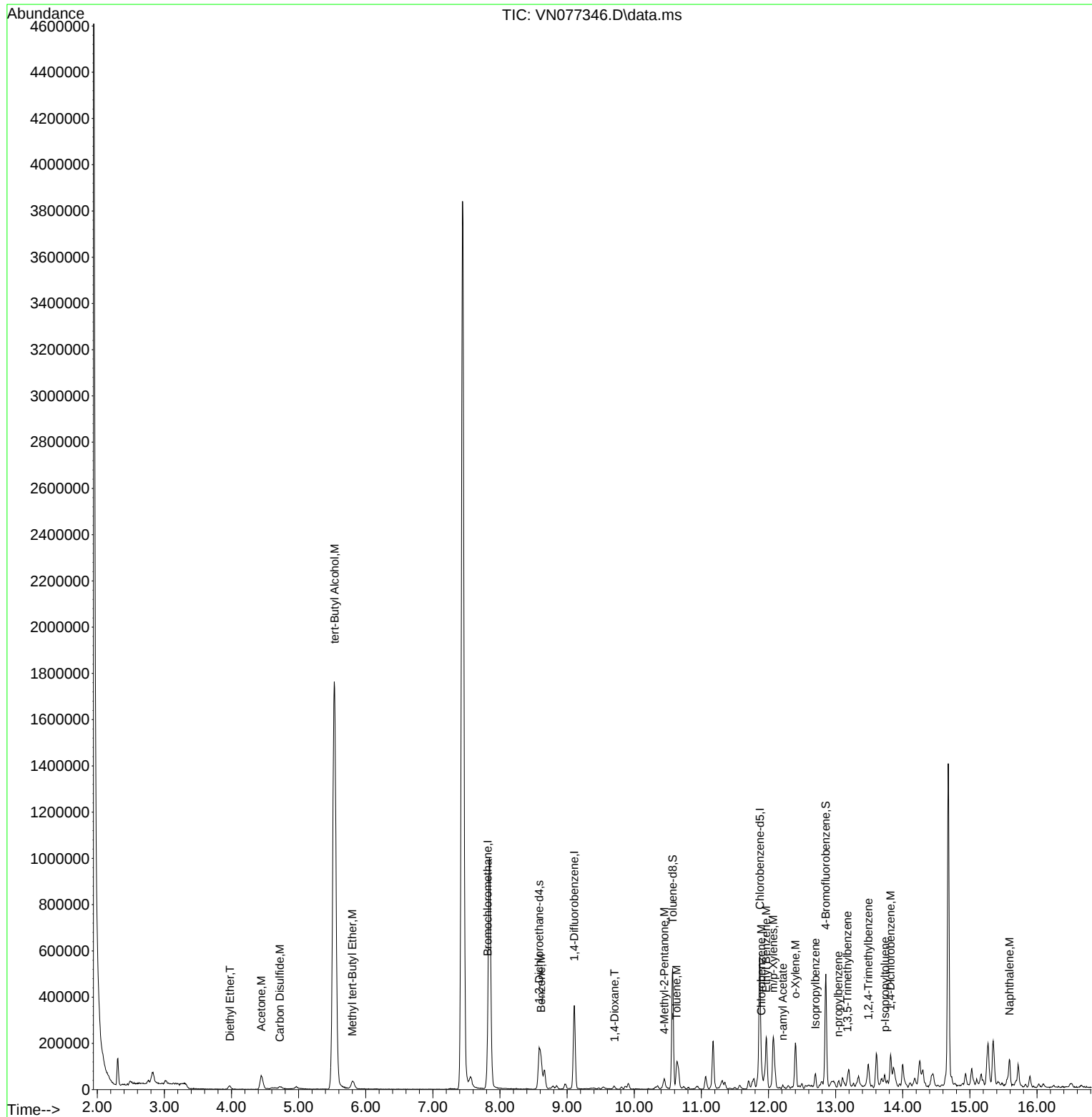
Internal Standards						
1) Bromochloromethane	7.819	128	44187	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	325652	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	338959	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	114417	30.531	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.767%
60) 4-Bromofluorobenzene	12.854	95	162995	27.810	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.700%
63) Toluene-d8	10.571	98	360472	30.251	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.833%
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.978	74	9379	2.956	ug/l	69
15) Acetone	4.442	58	27730	32.235	ug/l	100
16) Carbon Disulfide	4.719	76	8795	0.716	ug/l #	94
23) tert-Butyl Alcohol	5.536	59	3600278	3414.673	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	58303	3.478	ug/l #	83
34) Benzene	8.613	78	103134	4.725	ug/l #	94
45) 1,4-Dioxane	9.707	88	10206	87.571	ug/l #	36
47) n-amyl Acetate	12.212	43	3162	0.327	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	27802	4.381	ug/l	91
62) Toluene	10.630	91	79652	3.368	ug/l	100
64) Chlorobenzene	11.895	112	30565	2.127	ug/l	94
66) Ethyl Benzene	11.965	91	155773	5.945	ug/l	99
67) m/p-Xylenes	12.071	106	73824	7.188	ug/l	97
68) o-Xylene	12.401	106	53177	5.176	ug/l	95
70) Isopropylbenzene	12.701	105	28939	1.110	ug/l	98
74) n-propylbenzene	13.042	91	8124	0.282	ug/l	79
76) 1,3,5-Trimethylbenzene	13.177	105	15715	0.740	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	55630	2.689	ug/l	97
82) p-Isopropyltoluene	13.736	119	19048	0.901	ug/l	90
84) 1,4-Dichlorobenzene	13.818	146	35540	3.647	ug/l	96
91) Naphthalene	15.589	128	96687	6.538	ug/l	98

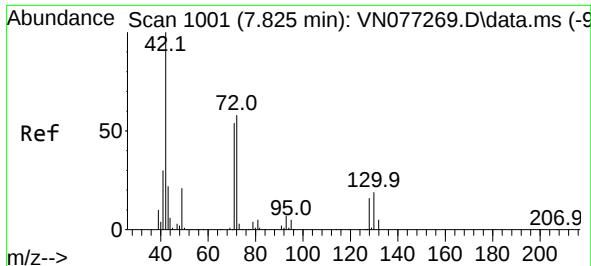
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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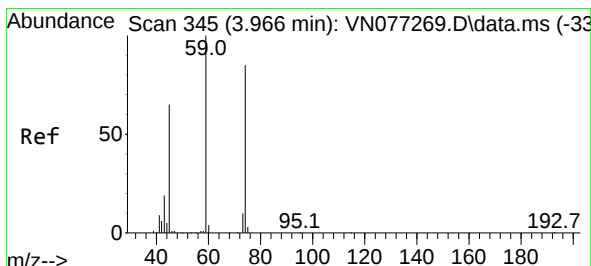
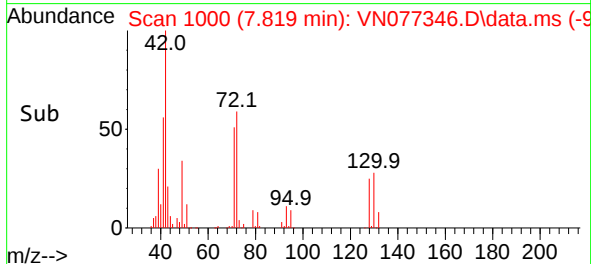
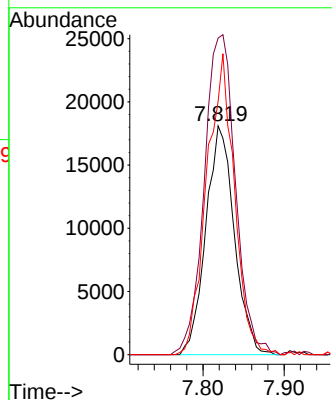
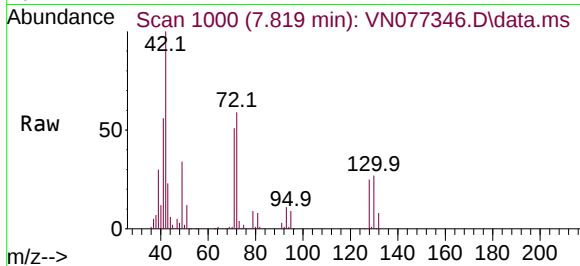




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

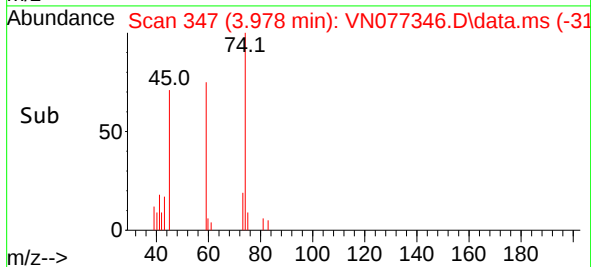
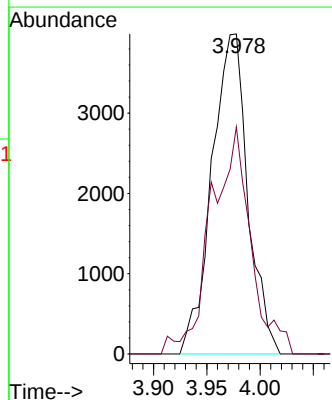
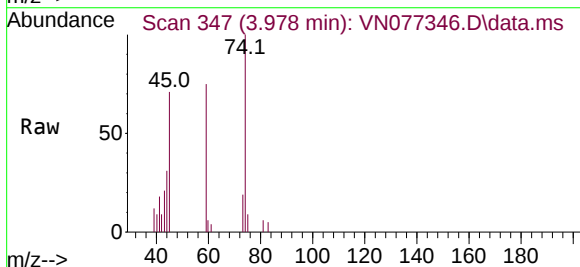
Instrument :
MSVOA_N
ClientSampleId :
230412098-02-VOA

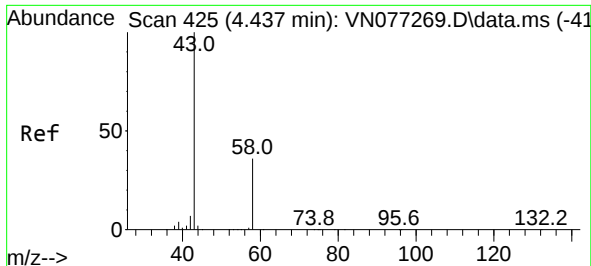
Tgt Ion:128 Resp: 44187
Ion Ratio Lower Upper
128 100
49 152.0 0.0 379.5
130 127.6 0.0 322.8



#8
Diethyl Ether
Concen: 2.956 ug/l
RT: 3.978 min Scan# 347
Delta R.T. 0.012 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

Tgt Ion: 74 Resp: 9379
Ion Ratio Lower Upper
74 100
45 48.0 14.8 133.6





#15

Acetone

Concen: 32.235 ug/l

RT: 4.442 min Scan# 41

Delta R.T. 0.005 min

Lab File: VN077346.D

Acq: 14 Apr 2023 12:16

Instrument :

MSVOA_N

ClientSampleId :

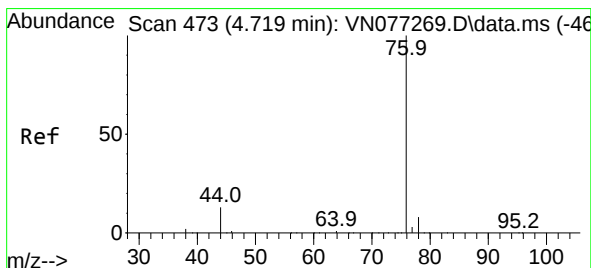
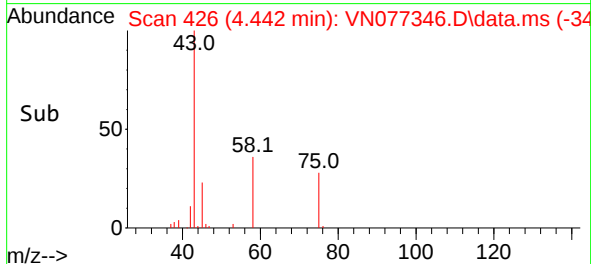
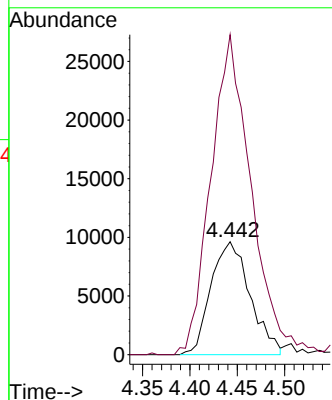
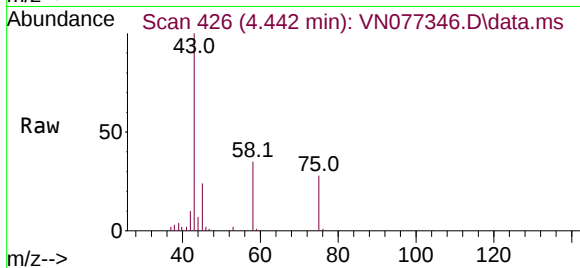
230412098-02-VOA

Tgt Ion: 58 Resp: 27730

Ion Ratio Lower Upper

58 100

43 276.8 220.9 331.3



#16

Carbon Disulfide

Concen: 0.716 ug/l

RT: 4.719 min Scan# 473

Delta R.T. -0.000 min

Lab File: VN077346.D

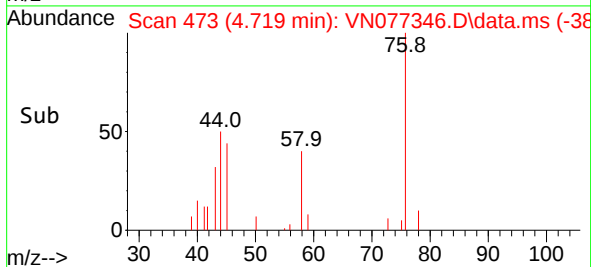
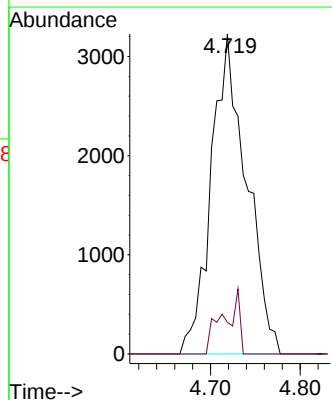
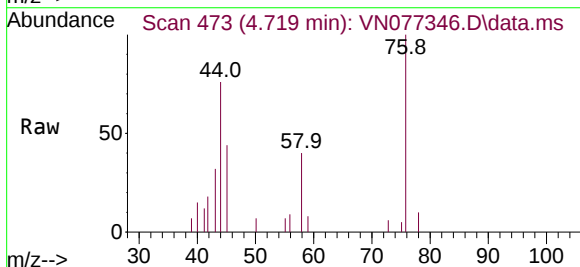
Acq: 14 Apr 2023 12:16

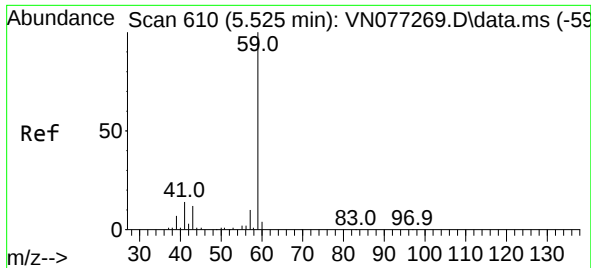
Tgt Ion: 76 Resp: 8795

Ion Ratio Lower Upper

76 100

78 9.9 6.3 9.5#

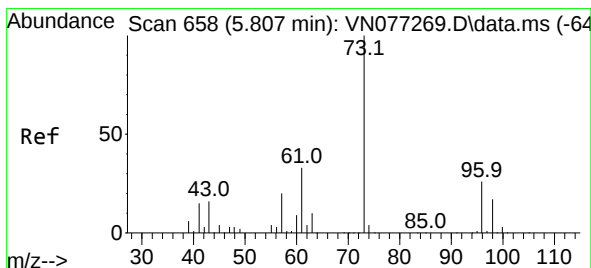
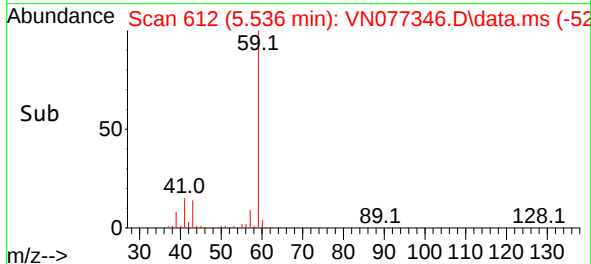
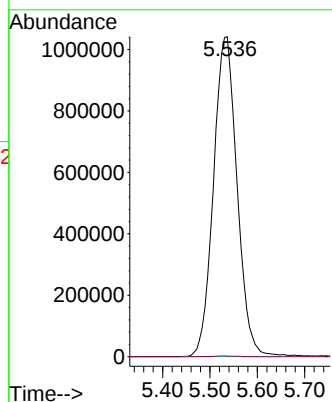
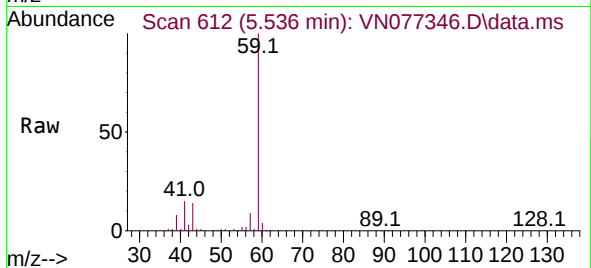




#23
tert-Butyl Alcohol
Concen: 3414.673 ug/l
RT: 5.536 min Scan# 610
Delta R.T. 0.011 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

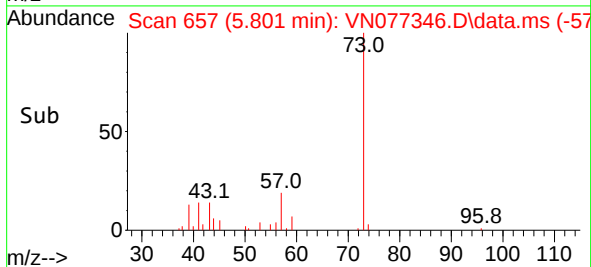
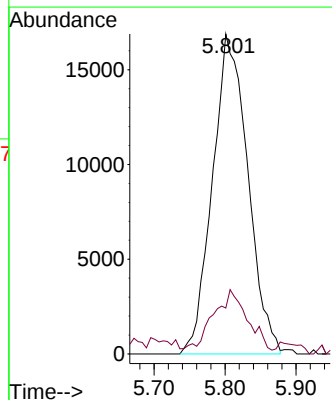
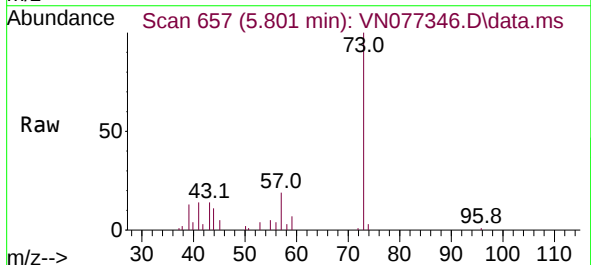
Instrument :
MSVOA_N
ClientSampleId :
230412098-02-VOA

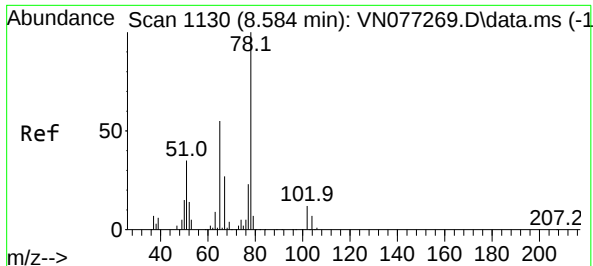
Tgt Ion: 59 Resp: 3600278
Ion Ratio Lower Upper
59 100
52 0.1 0.1 0.1#



#24
Methyl tert-Butyl Ether
Concen: 3.478 ug/l
RT: 5.801 min Scan# 657
Delta R.T. -0.006 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

Tgt Ion: 73 Resp: 58303
Ion Ratio Lower Upper
73 100
43 9.7 13.5 20.3#





#27

1,2-Dichloroethane-d4

Concen: 30.531 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.001 min

Lab File: VN077346.D

Acq: 14 Apr 2023 12:16

Instrument :

MSVOA_N

ClientSampleId :

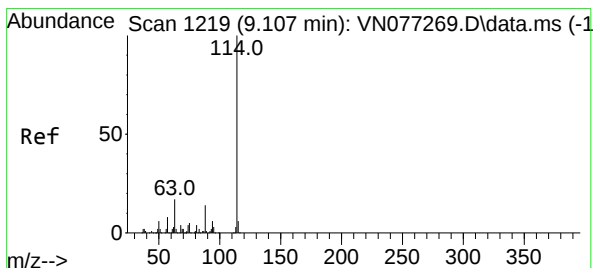
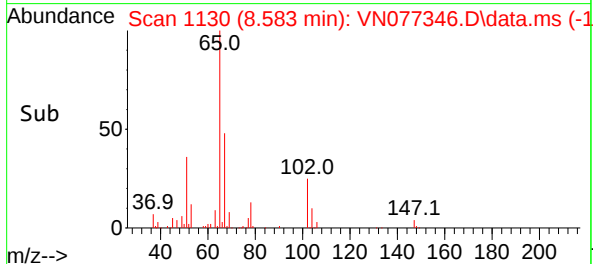
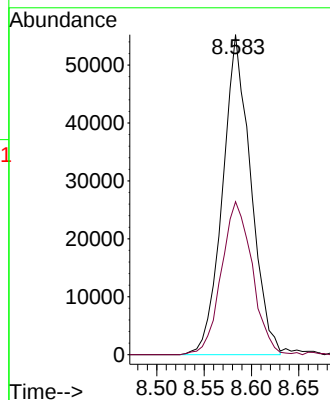
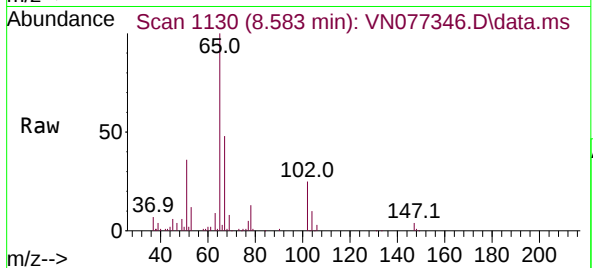
230412098-02-VOA

Tgt Ion: 65 Resp: 114417

Ion Ratio Lower Upper

65 100

67 52.3 41.8 62.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077346.D

Acq: 14 Apr 2023 12:16

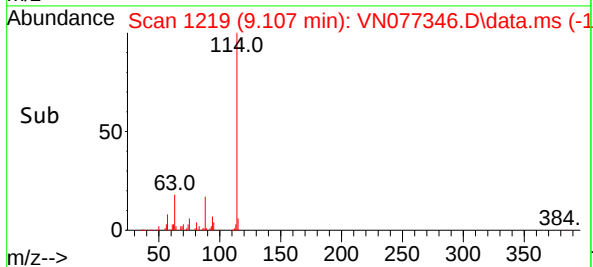
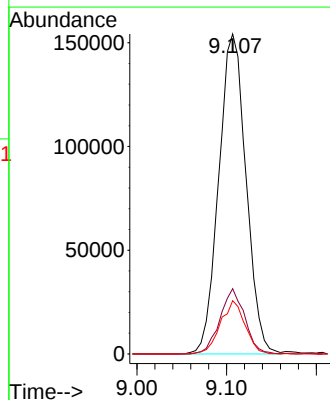
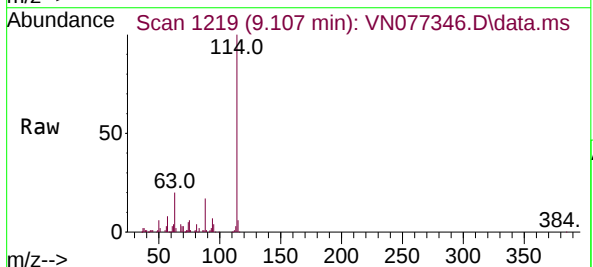
Tgt Ion: 114 Resp: 325652

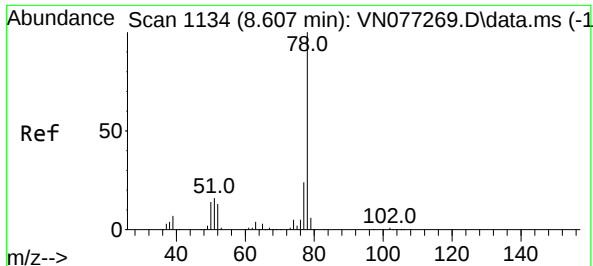
Ion Ratio Lower Upper

114 100

63 18.5 15.0 22.4

88 15.0 11.9 17.9





#34

Benzene

Concen: 4.725 ug/l

RT: 8.613 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VN077346.D

Acq: 14 Apr 2023 12:16

Instrument :

MSVOA_N

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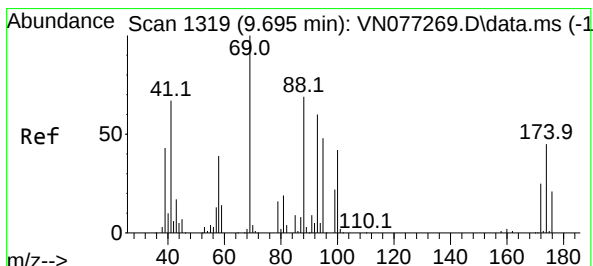
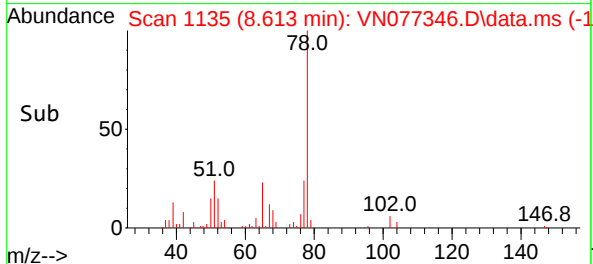
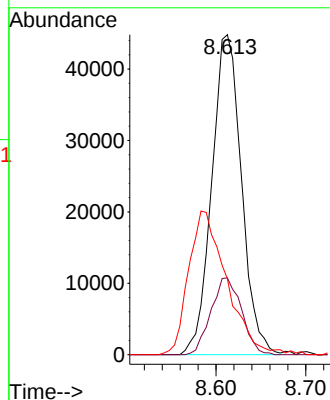
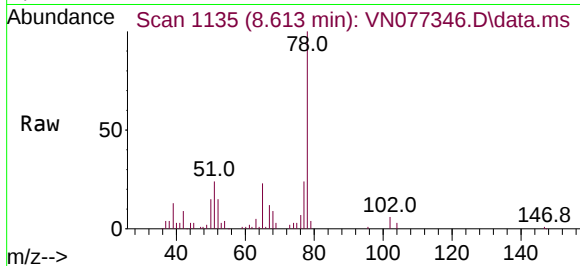
Tgt Ion: 78 Resp: 103134

Ion Ratio Lower Upper

78 100

77 24.0 19.4 29.0

51 22.2 12.6 19.0#



#45

1,4-Dioxane

Concen: 87.571 ug/l

RT: 9.707 min Scan# 1321

Delta R.T. 0.012 min

Lab File: VN077346.D

Acq: 14 Apr 2023 12:16

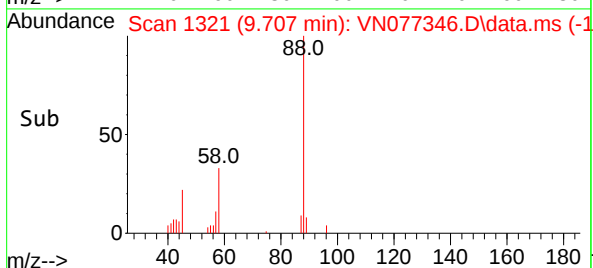
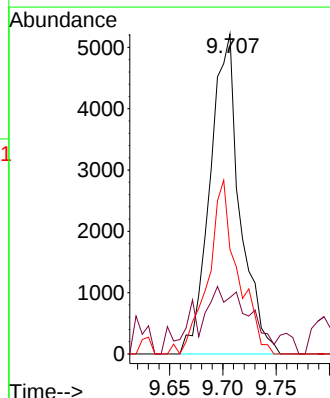
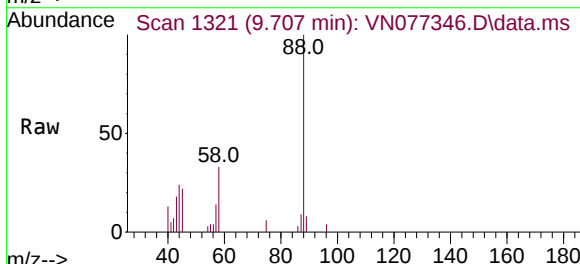
Tgt Ion: 88 Resp: 10206

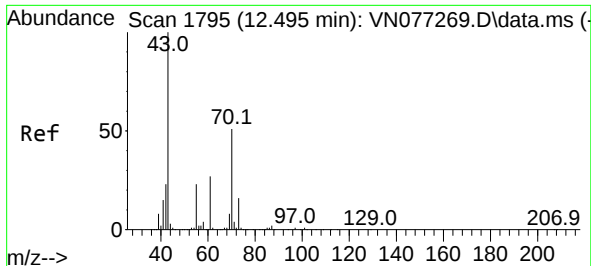
Ion Ratio Lower Upper

88 100

43 11.1 17.4 26.0#

58 0.0 48.2 72.4#

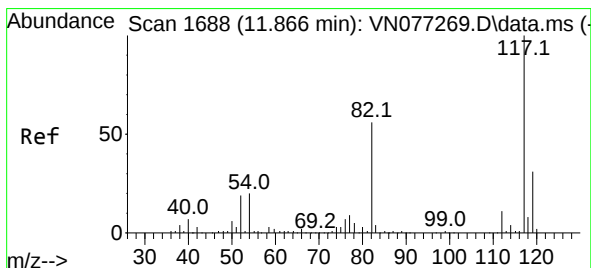
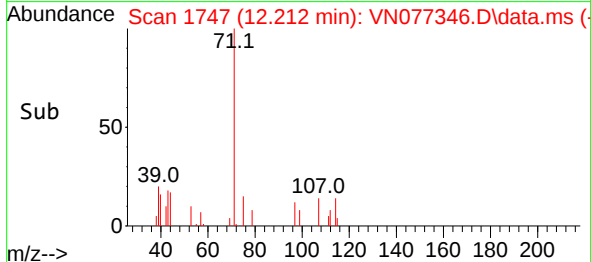
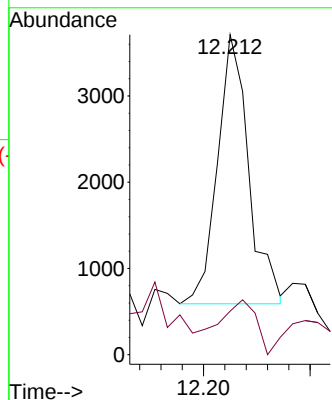
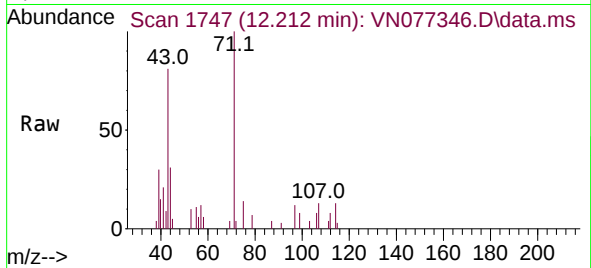




#47
n-amyl Acetate
Concen: 0.327 ug/l
RT: 12.212 min Scan# 1747
Delta R.T. -0.283 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

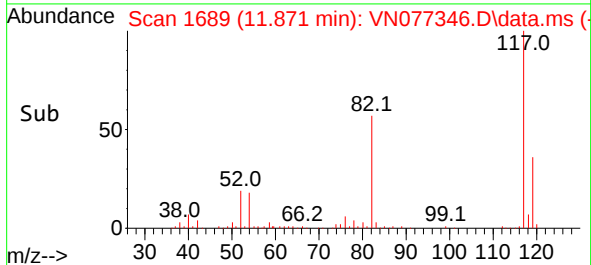
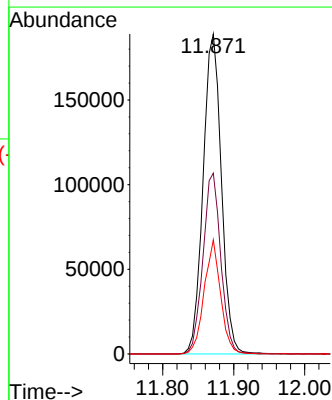
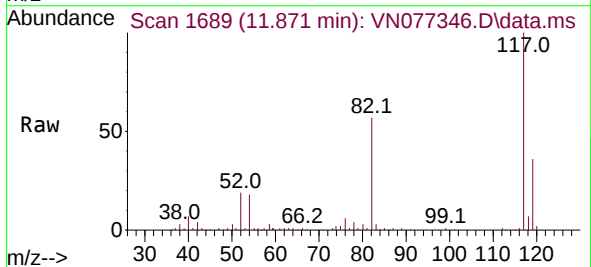
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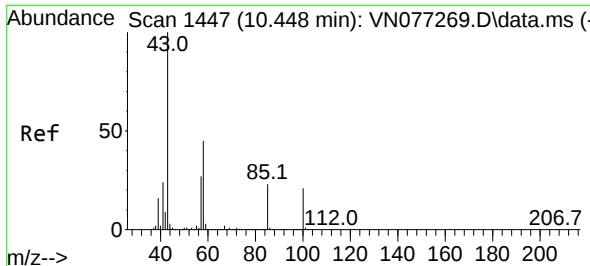
Tgt Ion: 43 Resp: 3162
Ion Ratio Lower Upper
43 100
55 25.3 19.4 29.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.005 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

Tgt Ion: 117 Resp: 338959
Ion Ratio Lower Upper
117 100
82 55.0 43.8 65.8
119 32.1 25.4 38.0

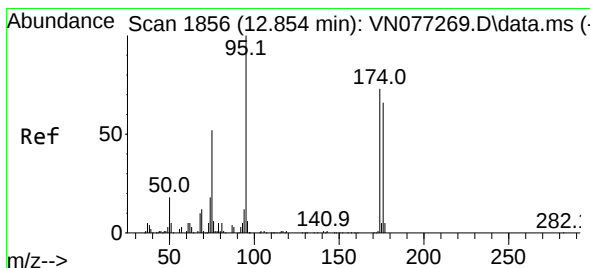
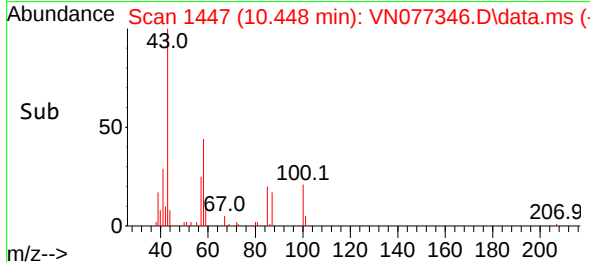
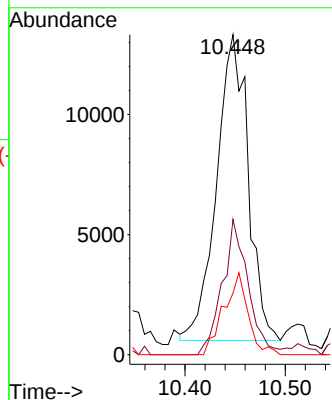
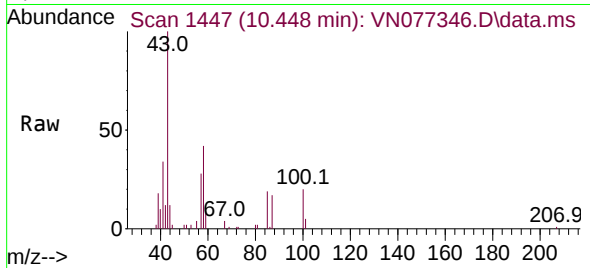




#58
4-Methyl-2-Pentanone
Concen: 4.381 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

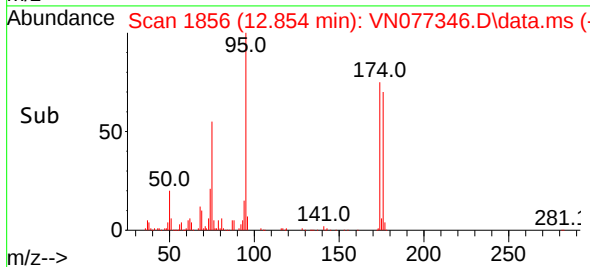
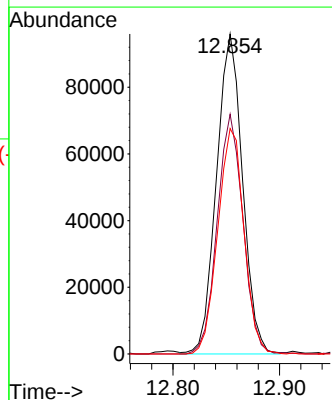
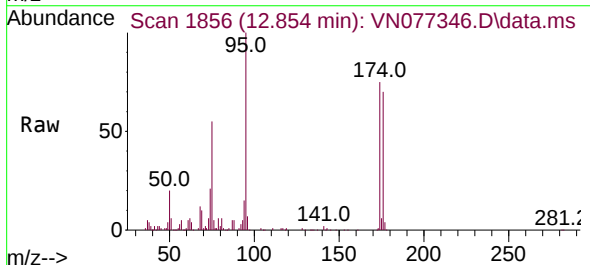
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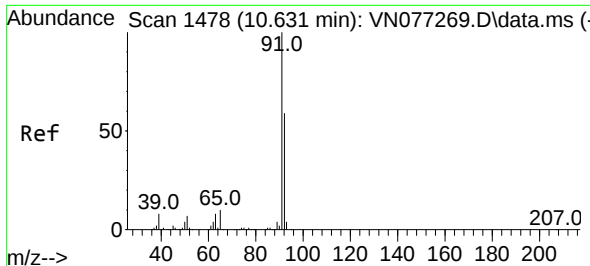
Tgt Ion:	43	Resp:	27802
Ion	Ratio	Lower	Upper
43	100		
58	35.9	34.7	52.1
85	19.9	17.8	26.8



#60
4-Bromofluorobenzene
Concen: 27.810 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

Tgt Ion:	95	Resp:	162995
Ion	Ratio	Lower	Upper
95	100		
174	73.8	57.8	86.8
176	70.8	54.6	81.8

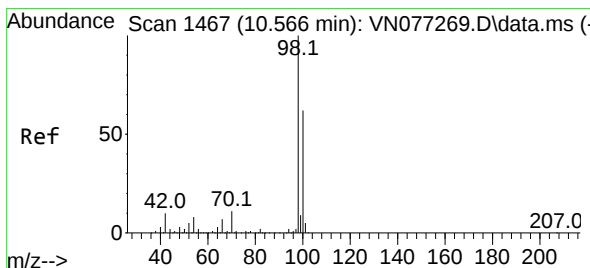
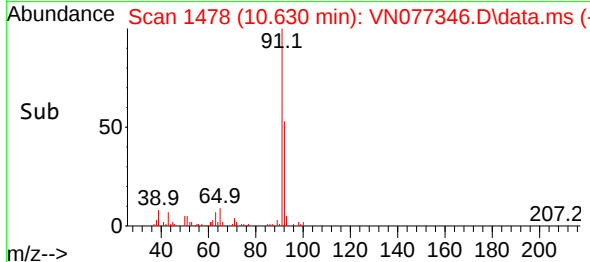
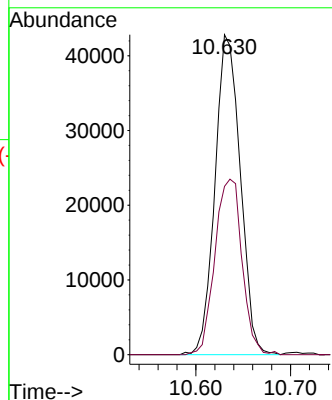
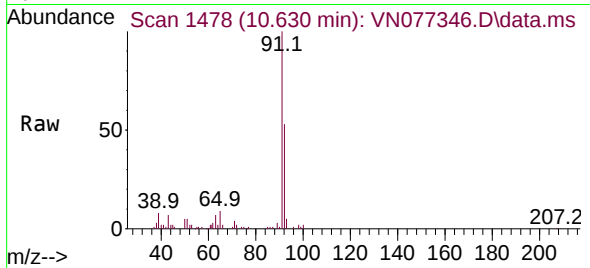




#62
Toluene
Concen: 3.368 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. -0.001 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

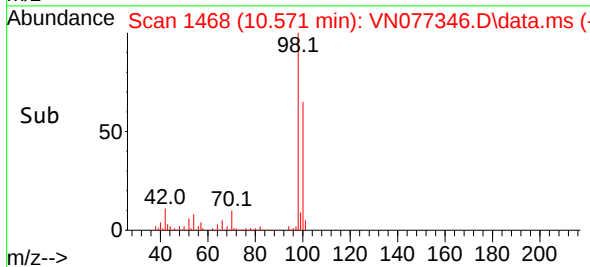
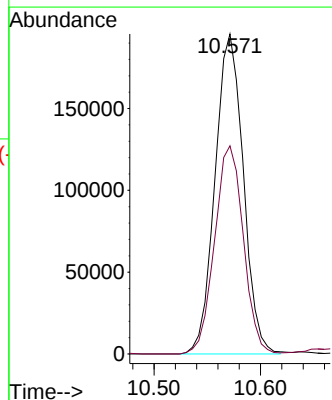
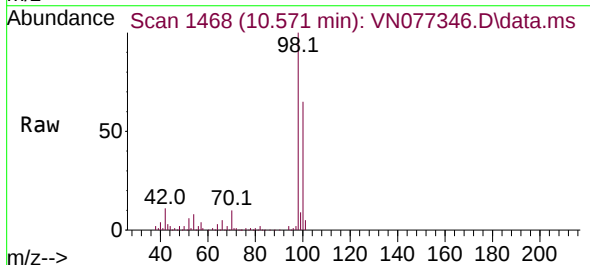
Instrument :
MSVOA_N
ClientSampleId :
230412098-02-VOA

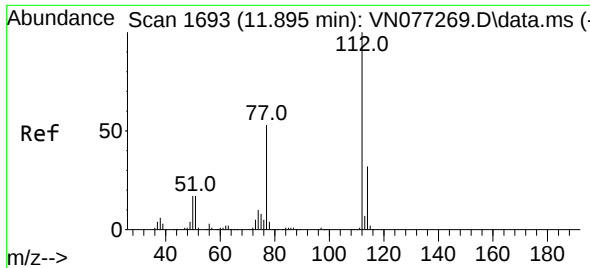
Tgt Ion: 91 Resp: 79652
Ion Ratio Lower Upper
91 100
92 58.5 46.6 70.0



#63
Toluene-d8
Concen: 30.251 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. 0.005 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

Tgt Ion: 98 Resp: 360472
Ion Ratio Lower Upper
98 100
100 66.1 51.4 77.2

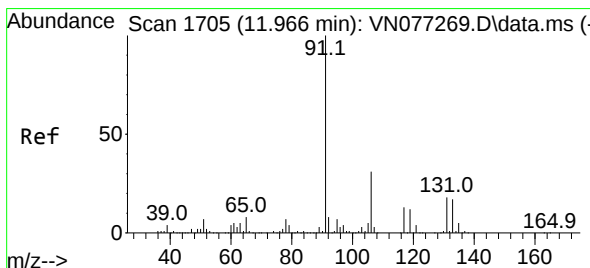
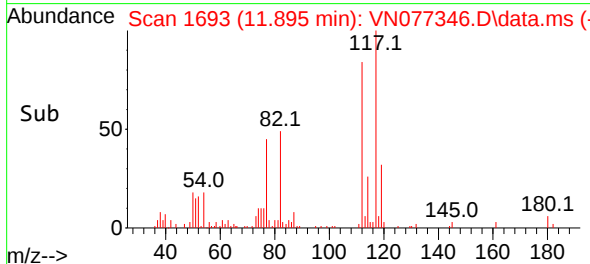
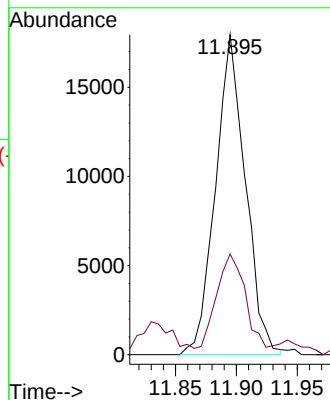
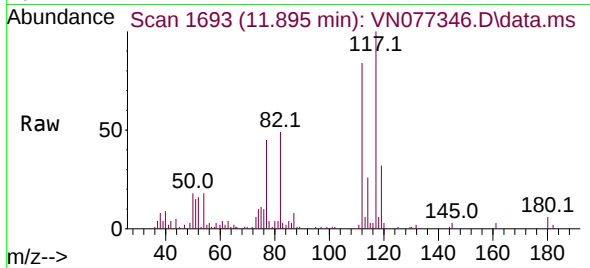




#64
Chlorobenzene
Concen: 2.127 ug/l
RT: 11.895 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

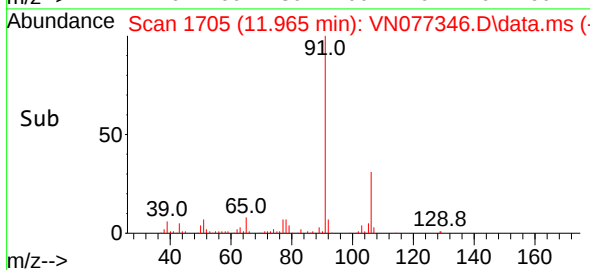
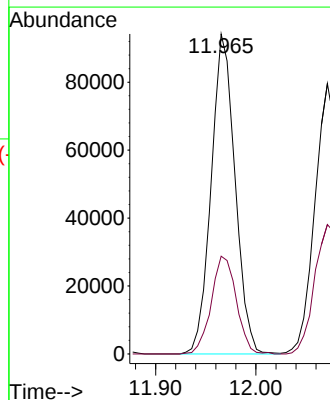
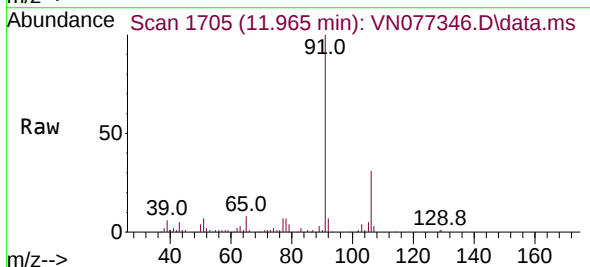
Instrument :
MSVOA_N
ClientSampleId :
230412098-02-VOA

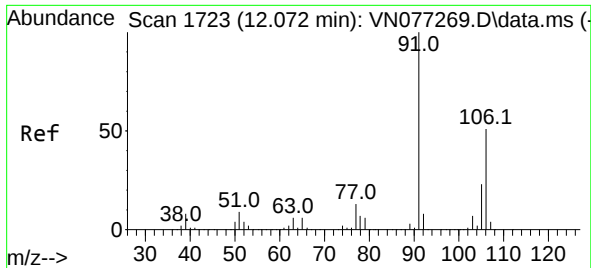
Tgt Ion:112 Resp: 30565
Ion Ratio Lower Upper
112 100
114 28.9 25.6 38.4



#66
Ethyl Benzene
Concen: 5.945 ug/l
RT: 11.965 min Scan# 1705
Delta R.T. -0.001 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

Tgt Ion: 91 Resp: 155773
Ion Ratio Lower Upper
91 100
106 30.5 25.0 37.6

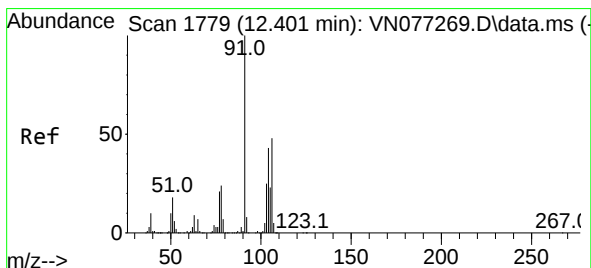
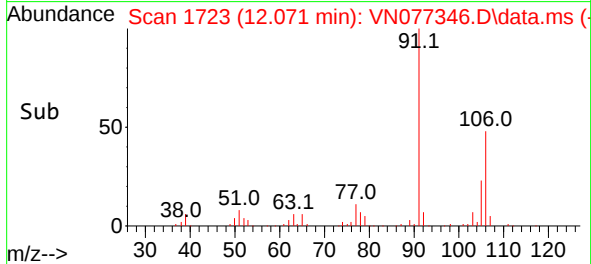
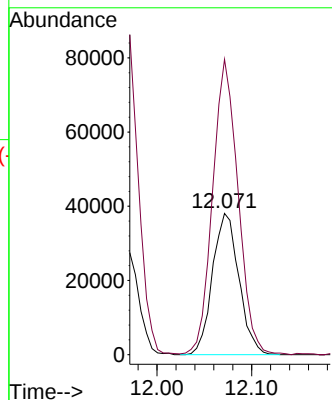
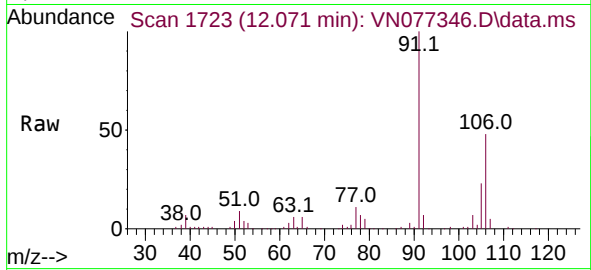




#67
m/p-Xylenes
Concen: 7.188 ug/l
RT: 12.071 min Scan# 1723
Delta R.T. -0.001 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

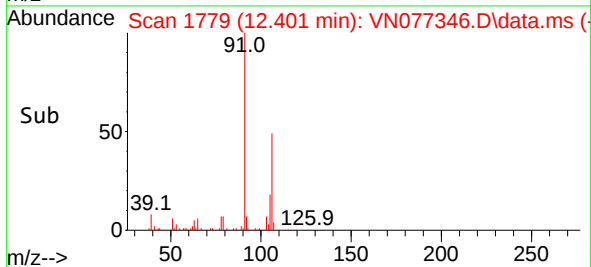
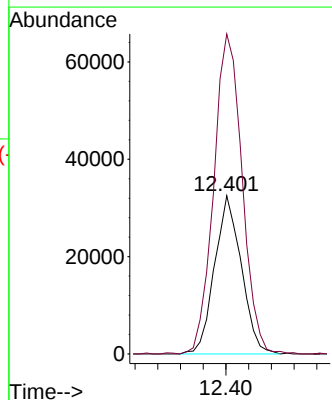
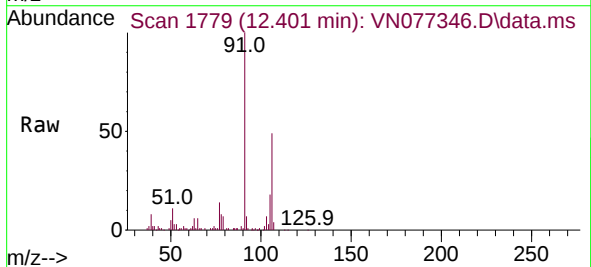
Instrument :
MSVOA_N
ClientSampleId :
230412098-02-VOA

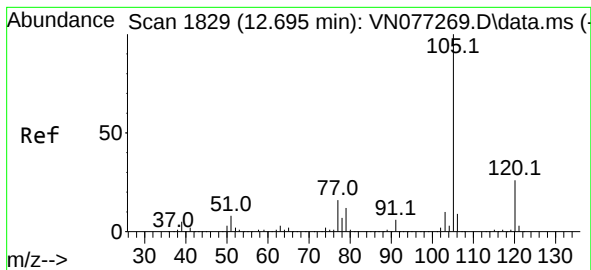
Tgt Ion:106 Resp: 73824
Ion Ratio Lower Upper
106 100
91 201.7 158.0 237.0



#68
o-Xylene
Concen: 5.176 ug/l
RT: 12.401 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

Tgt Ion:106 Resp: 53177
Ion Ratio Lower Upper
106 100
91 214.6 103.6 310.8





#70

Isopropylbenzene

Concen: 1.110 ug/l

RT: 12.701 min Scan# 1830

Delta R.T. 0.006 min

Lab File: VN077346.D

Acq: 14 Apr 2023 12:16

Instrument :

MSVOA_N

ClientSampleId :

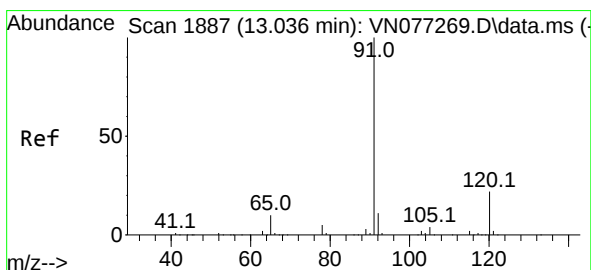
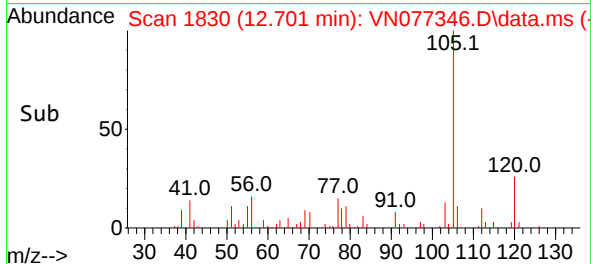
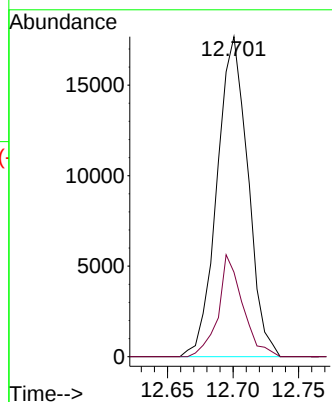
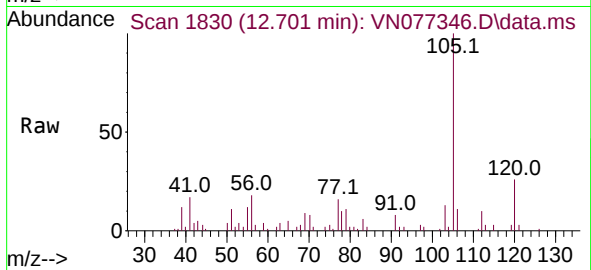
230412098-02-VOA

Tgt Ion:105 Resp: 28939

Ion Ratio Lower Upper

105 100

120 25.2 18.3 34.1



#74

n-propylbenzene

Concen: 0.282 ug/l

RT: 13.042 min Scan# 1888

Delta R.T. 0.006 min

Lab File: VN077346.D

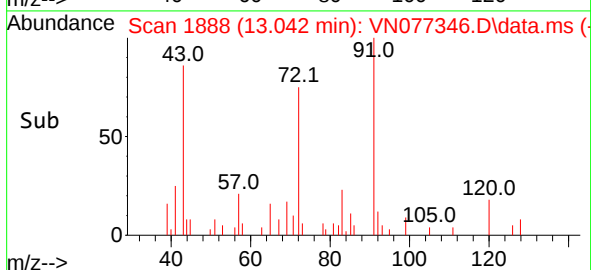
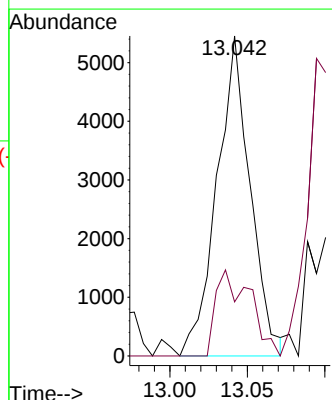
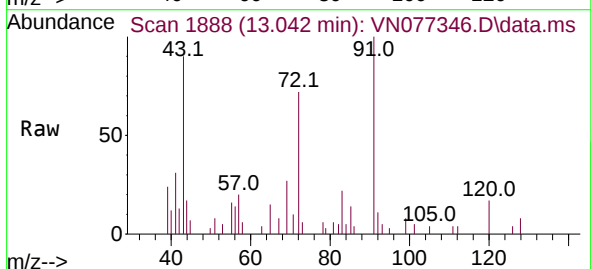
Acq: 14 Apr 2023 12:16

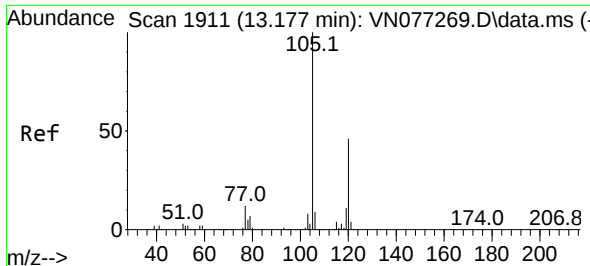
Tgt Ion: 91 Resp: 8124

Ion Ratio Lower Upper

91 100

120 12.5 0.0 45.6

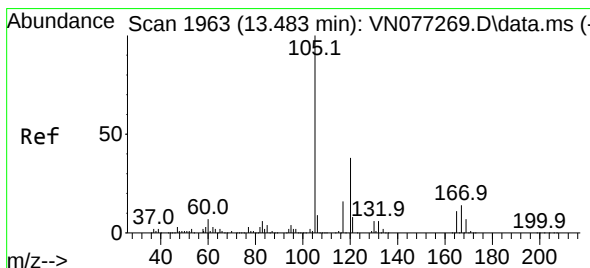
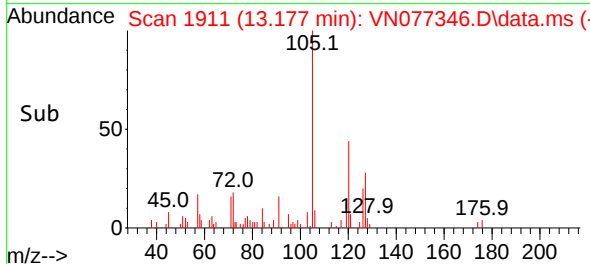
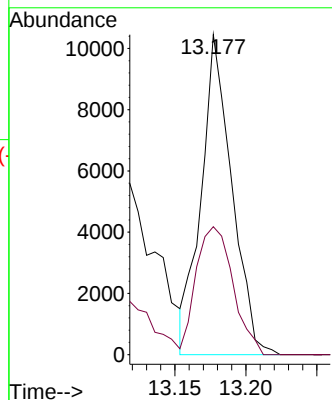
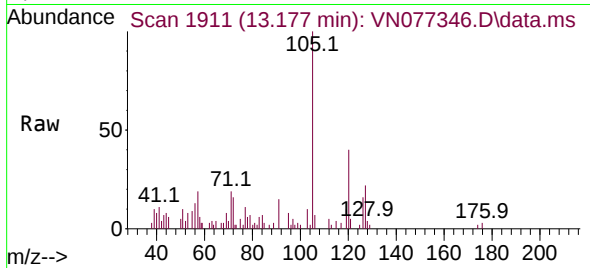




#76
1,3,5-Trimethylbenzene
Concen: 0.740 ug/l
RT: 13.177 min Scan# 1911
Delta R.T. 0.000 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

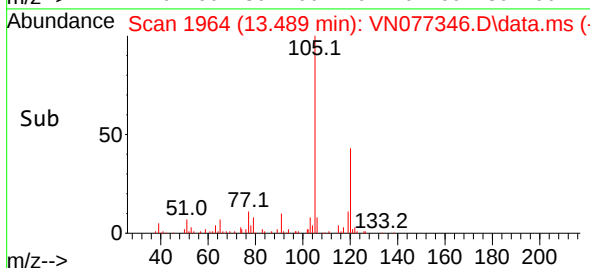
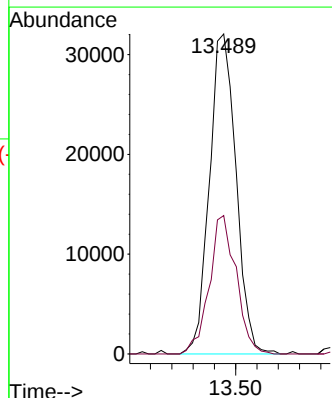
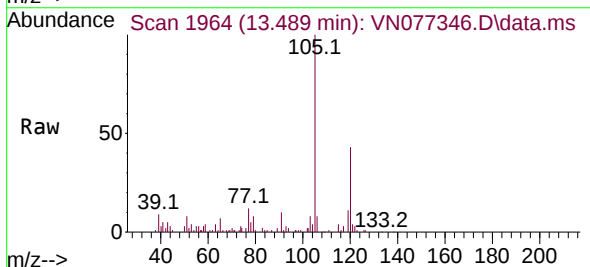
Instrument :
MSVOA_N
ClientSampleId :
230412098-02-VOA

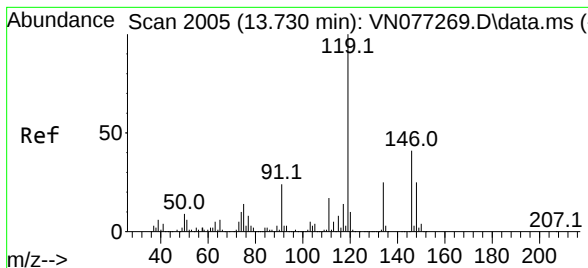
Tgt Ion:105 Resp: 15715
Ion Ratio Lower Upper
105 100
120 48.0 0.0 94.4



#80
1,2,4-Trimethylbenzene
Concen: 2.689 ug/l
RT: 13.489 min Scan# 1964
Delta R.T. 0.006 min
Lab File: VN077346.D
Acq: 14 Apr 2023 12:16

Tgt Ion:105 Resp: 55630
Ion Ratio Lower Upper
105 100
120 43.6 0.0 91.0





#82

p-Isopropyltoluene

Concen: 0.901 ug/l

RT: 13.736 min Scan# 2005

Delta R.T. 0.006 min

Lab File: VN077346.D

Acq: 14 Apr 2023 12:16

Instrument :

MSVOA_N

ClientSampleId :

230412098-02-VOA

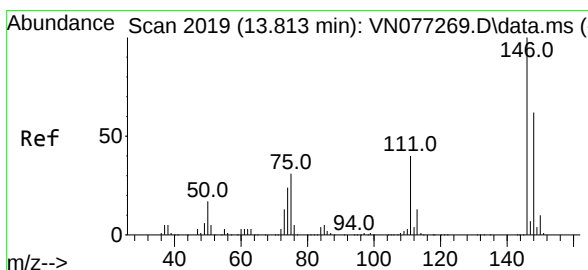
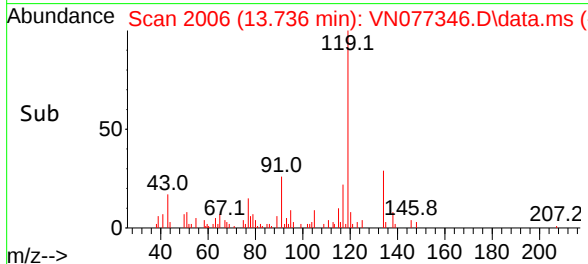
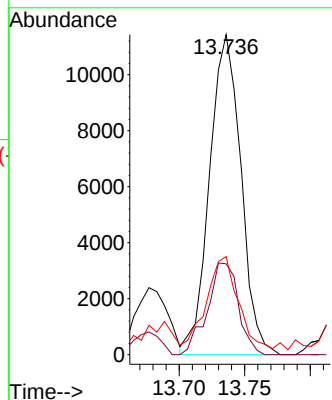
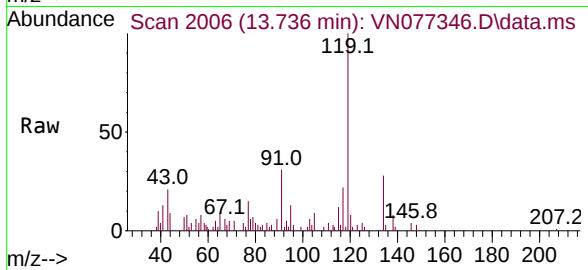
Tgt Ion:119 Resp: 19048

Ion Ratio Lower Upper

119 100

134 28.3 0.0 51.0

91 31.8 0.0 48.0



#84

1,4-Dichlorobenzene

Concen: 3.647 ug/l

RT: 13.818 min Scan# 2020

Delta R.T. 0.005 min

Lab File: VN077346.D

Acq: 14 Apr 2023 12:16

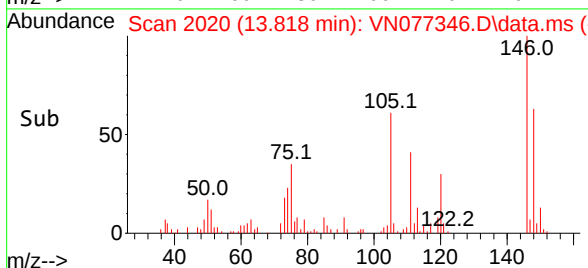
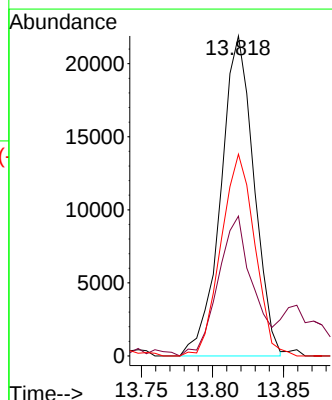
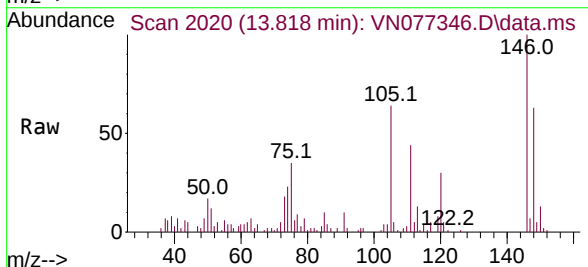
Tgt Ion:146 Resp: 35540

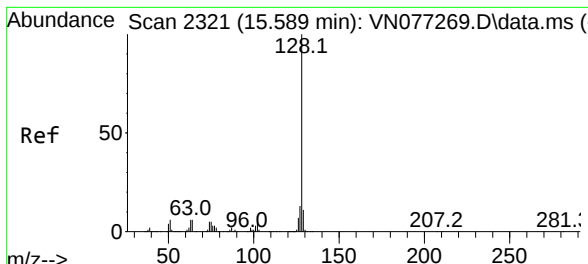
Ion Ratio Lower Upper

146 100

111 45.7 20.3 61.0

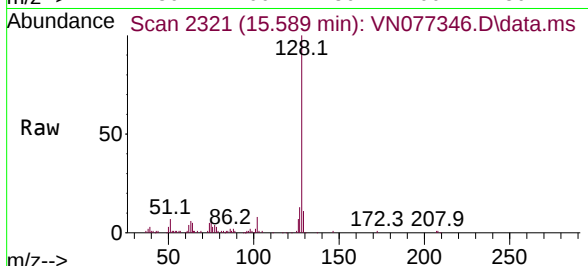
148 64.1 31.6 94.7





#91
 Naphthalene
 Concen: 6.538 ug/l
 RT: 15.589 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN077346.D
 Acq: 14 Apr 2023 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 230412098-02-VOA



Tgt Ion:	128	Resp:	96687
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	12.0	8.9	13.3

