

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070037.D
 Acq On : 13 Dec 2021 17:20
 Operator : JC/MD
 Sample : M4986-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 14 05:27:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 14 00:59:04 2021
 Response via : Initial Calibration

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

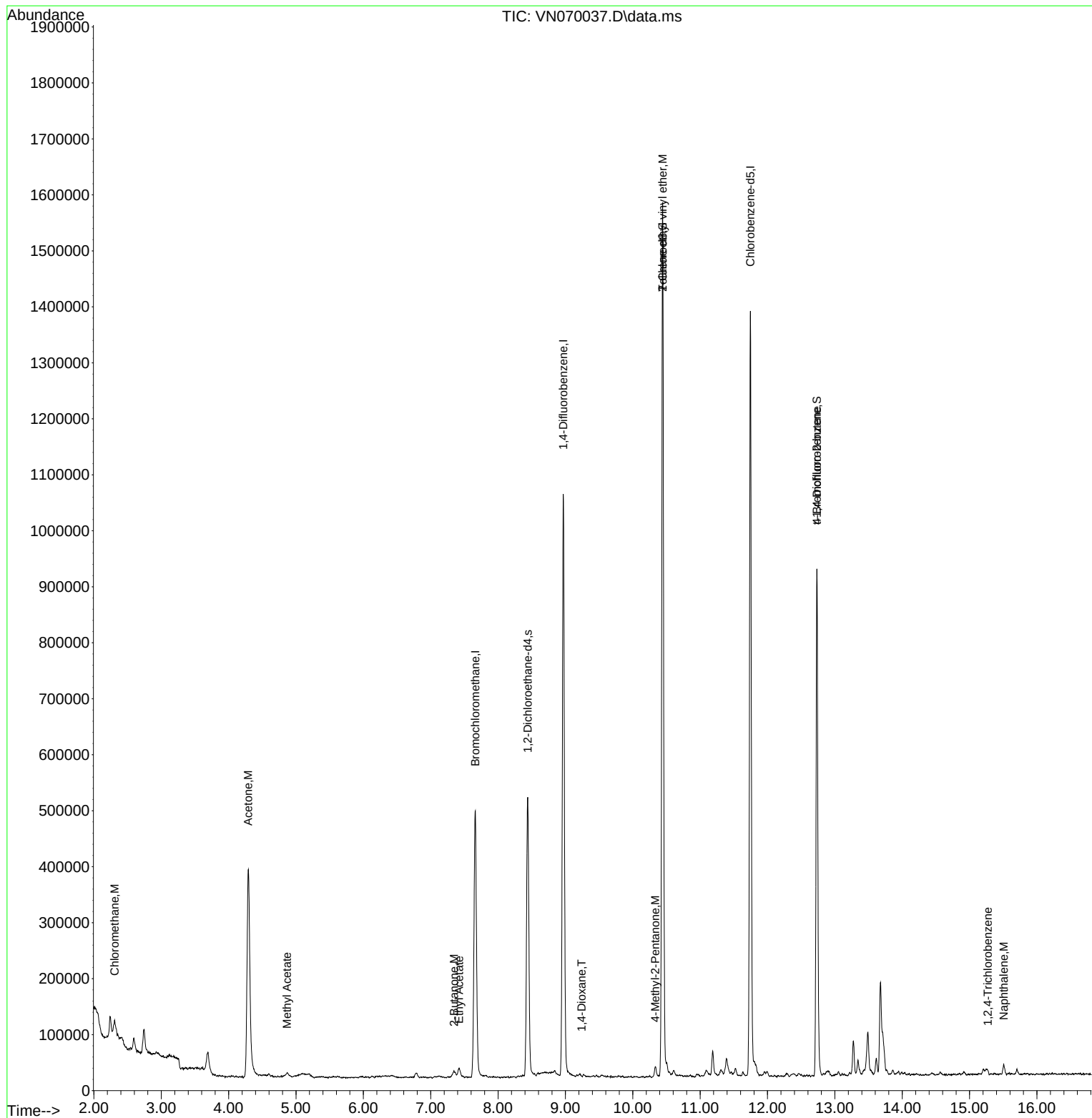
Internal Standards						
1) Bromochloromethane	7.662	128	161497	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	860864	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.747	117	762455	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	436387	30.491	ug/l	0.00
Spiked Amount	30.000	Range 91 - 110	Recovery	=	101.633%	
60) 4-Bromofluorobenzene	12.734	95	315178	25.122	ug/l	0.00
Spiked Amount	30.000	Range 63 - 112	Recovery	=	83.733%	
63) Toluene-d8	10.443	98	1064370	30.208	ug/l	0.00
Spiked Amount	30.000	Range 91 - 112	Recovery	=	100.700%	
Target Compounds						
						Qvalue
3) Chloromethane	2.306	50	3015	0.225	ug/l	90
12) Methyl Acetate	4.867	43	8363	0.369	ug/l	# 86
15) Acetone	4.291	58	192400	80.918	ug/l	81
30) 2-Butanone	7.345	43	18079	1.773	ug/l	# 75
43) Ethyl Acetate	7.421	43	26248	1.482	ug/l	95
45) 1,4-Dioxane	9.242	88	57	0.282	ug/l	# 1
55) 2-Chloroethyl vinyl ether	10.443	63	1300	0.396	ug/l	# 1
58) 4-Methyl-2-Pentanone	10.336	43	15905	0.909	ug/l	# 74
77) t-1,4-Dichloro-2-butene	12.734	75	173312	38.194	ug/l	# 8
89) 1,2,4-Trichlorobenzene	15.271	180	2392	0.288	ug/l	# 82
91) Naphthalene	15.507	128	14811	8.507	ug/l	# 90

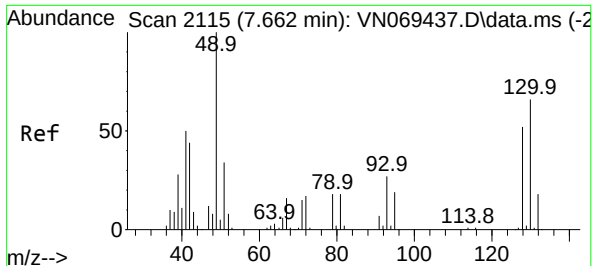
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 14 05:27:57 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Dec 14 00:59:04 2021
Response via : Initial Calibration

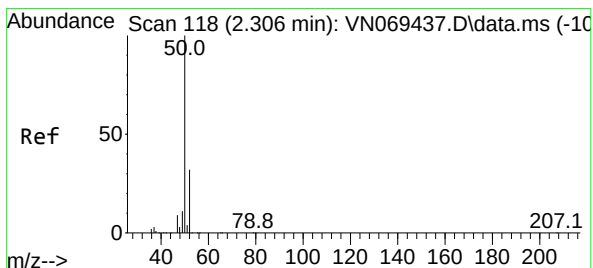
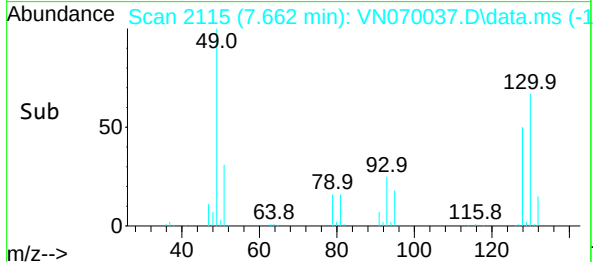
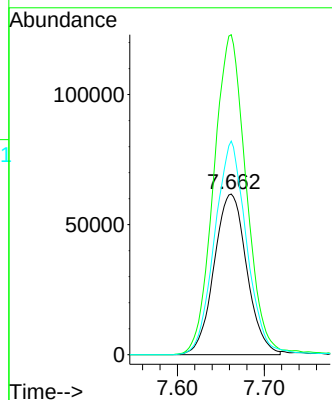
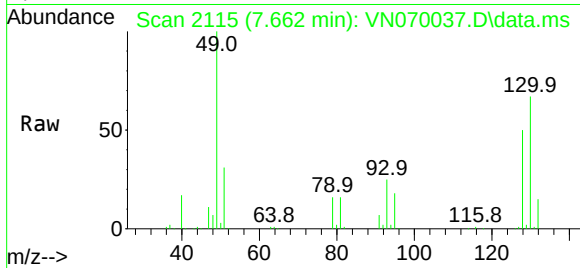




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.005 min
Lab File: VN070037.D
Acq: 13 Dec 2021 17:20

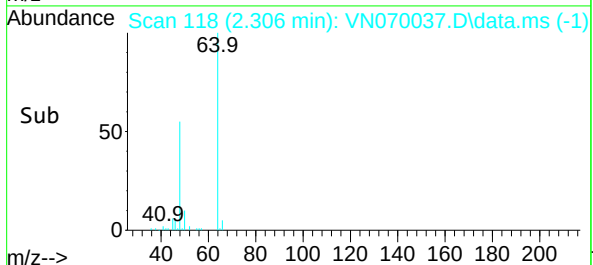
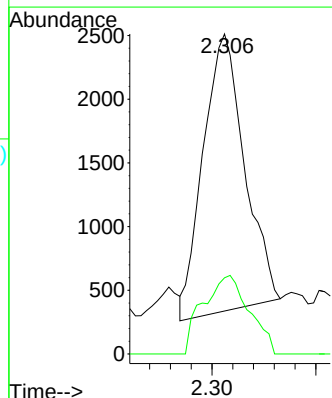
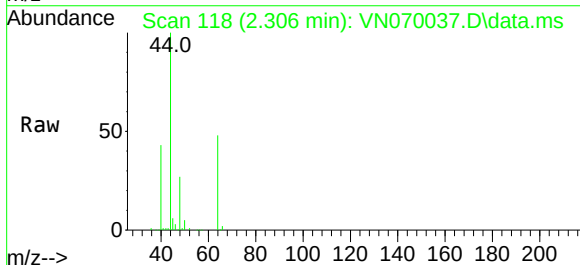
Instrument :
MSVOA_N
ClientSampleId :

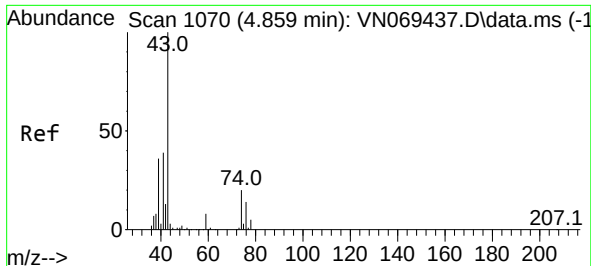
Tgt Ion:128 Resp: 161497
Ion Ratio Lower Upper
128 100
49 196.8 0.0 392.3
130 130.3 0.0 320.2



#3
Chloromethane
Concen: 0.225 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN070037.D
Acq: 13 Dec 2021 17:20

Tgt Ion: 50 Resp: 3015
Ion Ratio Lower Upper
50 100
52 28.8 27.8 41.6





#12

Methyl Acetate

Concen: 0.369 ug/l

RT: 4.867 min Scan# 1070

Delta R.T. 0.011 min

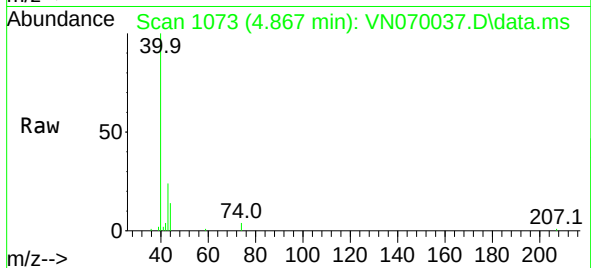
Lab File: VN070037.D

Acq: 13 Dec 2021 17:20

Instrument :

MSVOA_N

ClientSampleId :

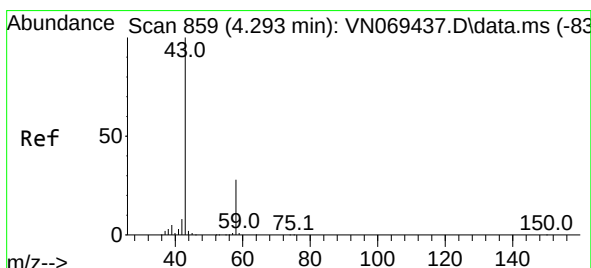
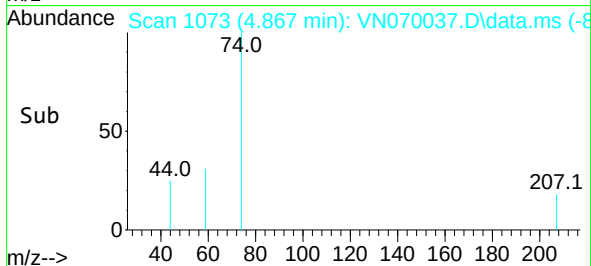
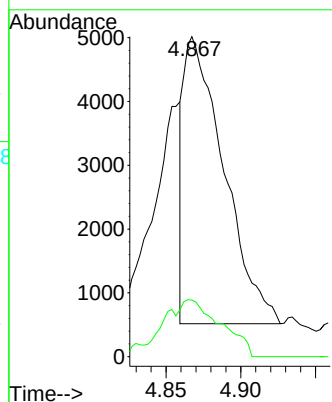


Tgt Ion: 43 Resp: 8363

Ion Ratio Lower Upper

43 100

74 18.9 20.8 31.2#



#15

Acetone

Concen: 80.918 ug/l

RT: 4.291 min Scan# 858

Delta R.T. 0.005 min

Lab File: VN070037.D

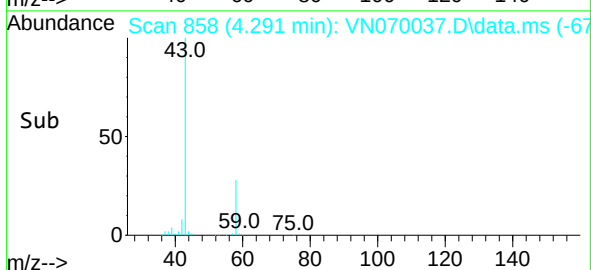
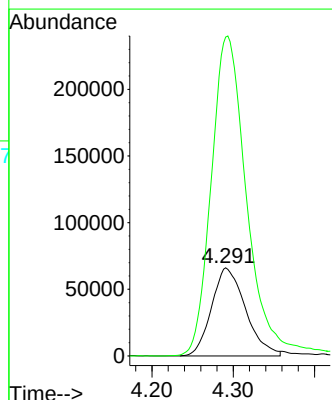
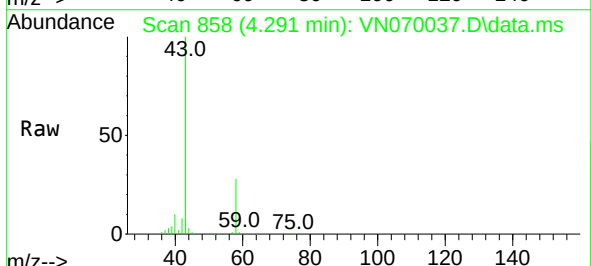
Acq: 13 Dec 2021 17:20

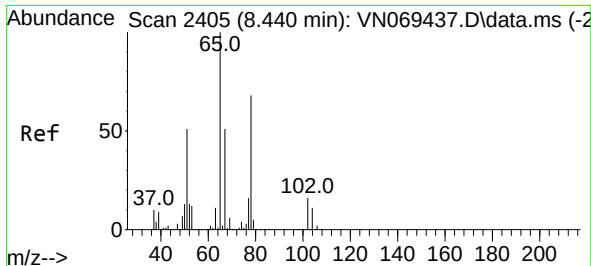
Tgt Ion: 58 Resp: 192400

Ion Ratio Lower Upper

58 100

43 360.6 256.6 384.8





#27

1,2-Dichloroethane-d4

Concen: 30.491 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VN070037.D

Acq: 13 Dec 2021 17:20

Instrument :

MSVOA_N

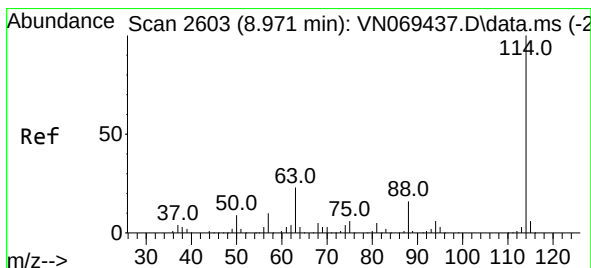
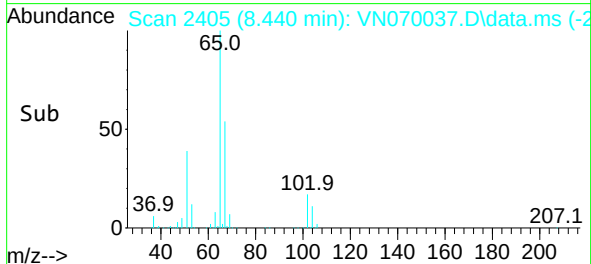
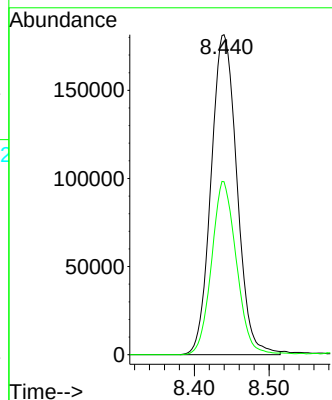
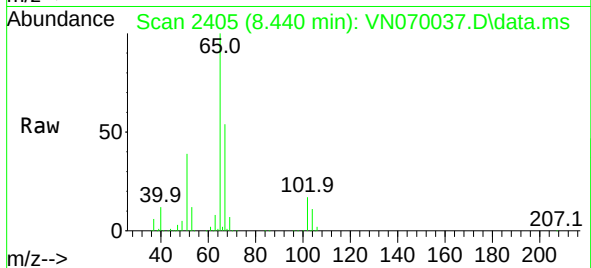
ClientSampleId :

Tgt Ion: 65 Resp: 436387

Ion Ratio Lower Upper

65 100

67 51.8 40.2 60.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN070037.D

Acq: 13 Dec 2021 17:20

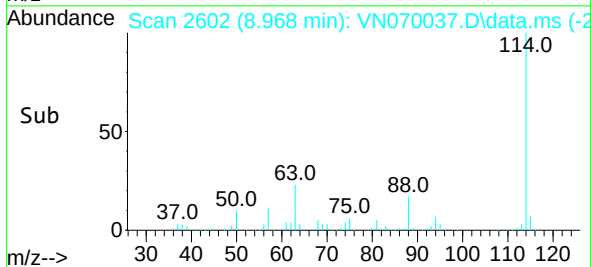
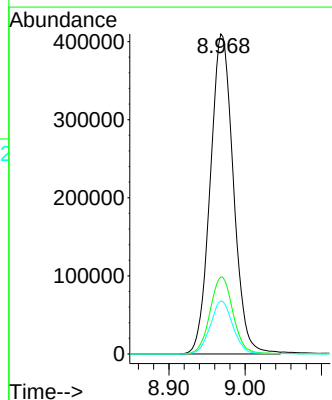
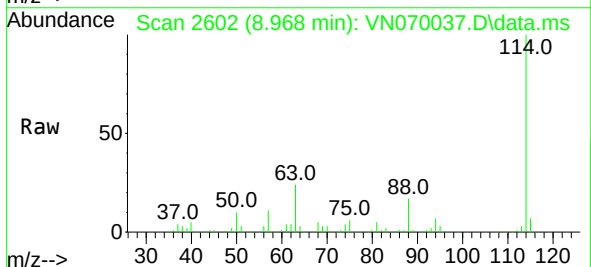
Tgt Ion: 114 Resp: 860864

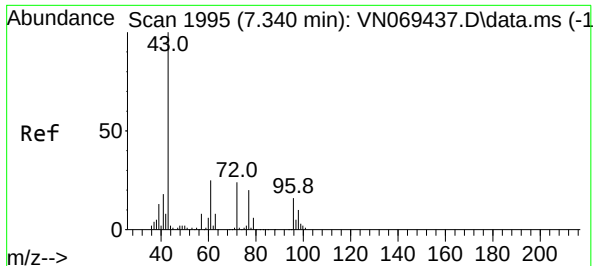
Ion Ratio Lower Upper

114 100

63 24.0 15.8 23.6

88 16.2 11.6 17.4





#30

2-Butanone

Concen: 1.773 ug/l

RT: 7.345 min Scan# 1995

Delta R.T. 0.011 min

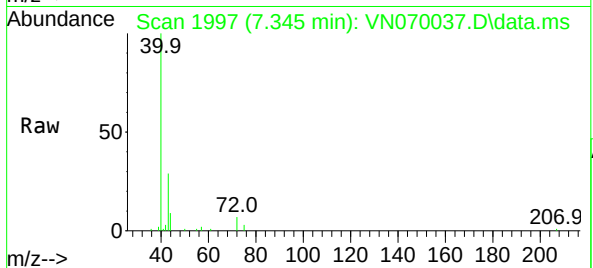
Lab File: VN070037.D

Acq: 13 Dec 2021 17:20

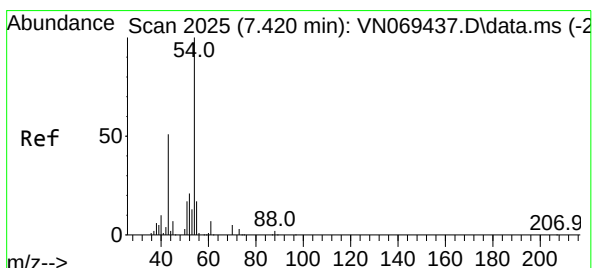
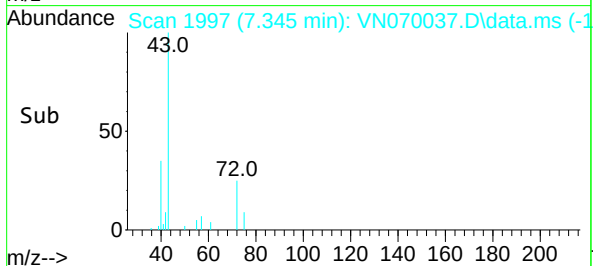
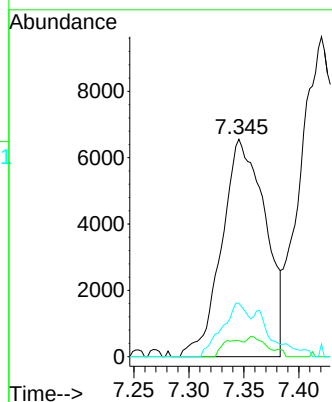
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	18079
Ion	Ratio	Lower	Upper
43	100		
57	1.7	6.7	10.1#
72	14.8	23.2	34.8#



#43

Ethyl Acetate

Concen: 1.482 ug/l

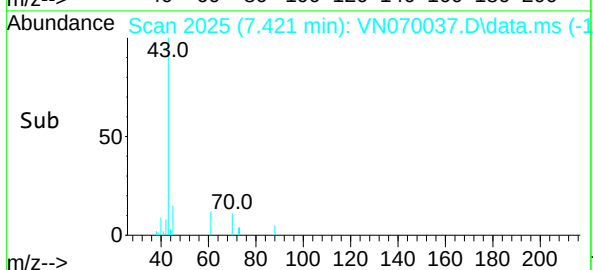
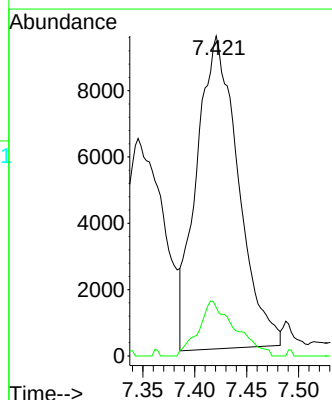
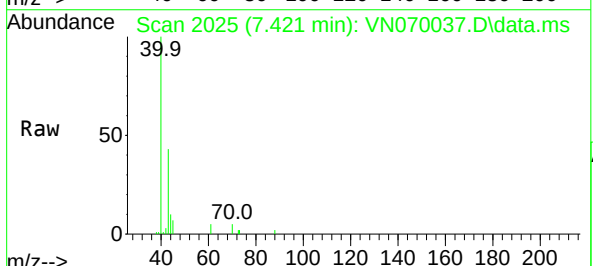
RT: 7.421 min Scan# 2025

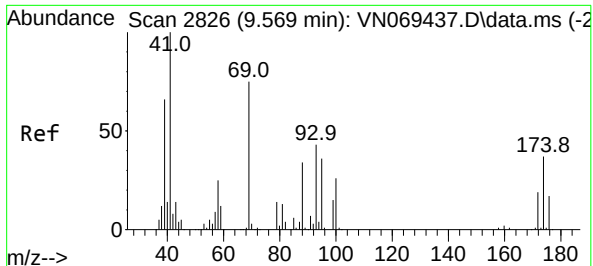
Delta R.T. 0.008 min

Lab File: VN070037.D

Acq: 13 Dec 2021 17:20

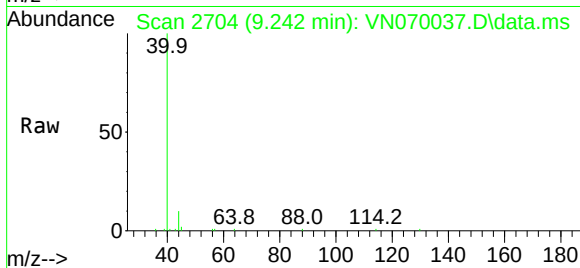
Tgt Ion:	43	Resp:	26248
Ion	Ratio	Lower	Upper
43	100		
45	15.4	10.6	16.0



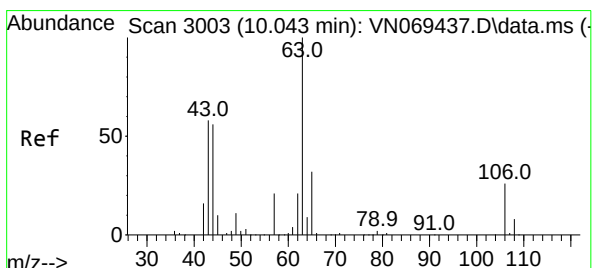
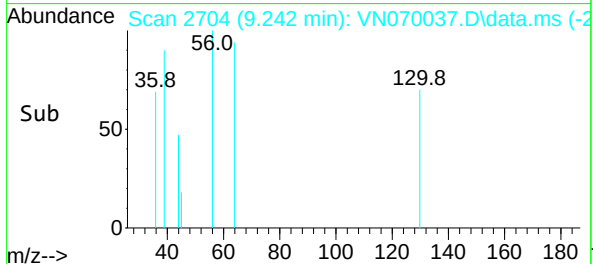
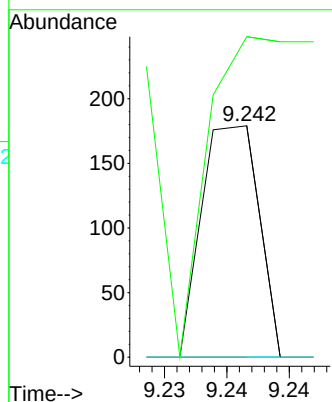


#45
1,4-Dioxane
Concen: 0.282 ug/l
RT: 9.242 min Scan# 21
Delta R.T. -0.327 min
Lab File: VN070037.D
Acq: 13 Dec 2021 17:20

Instrument :
MSVOA_N
ClientSampleId :

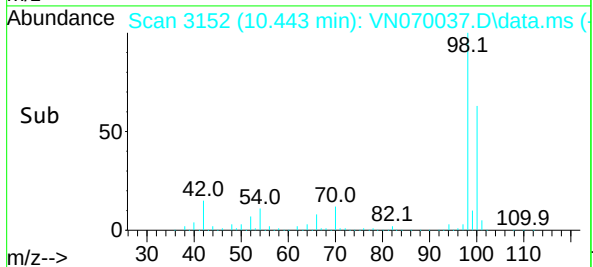
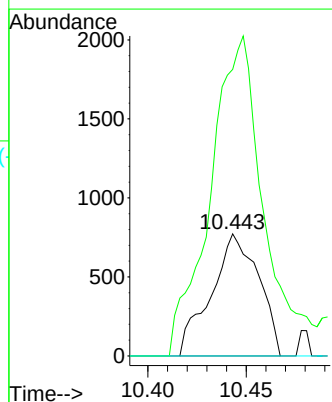
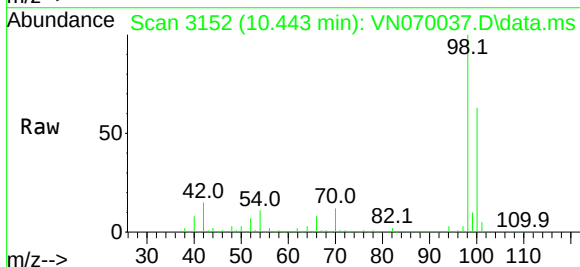


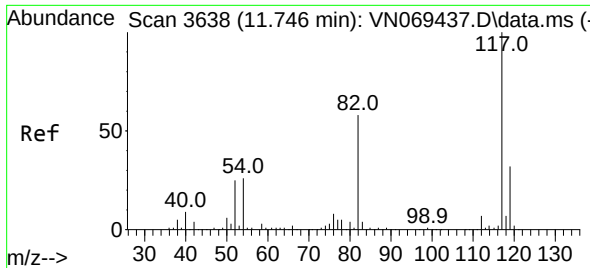
Tgt Ion: 88 Resp: 57
Ion Ratio Lower Upper
88 100
43 196.5 25.0 37.6#
58 0.0 49.4 74.2#



#55
2-Chloroethyl vinyl ether
Concen: 0.396 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.402 min
Lab File: VN070037.D
Acq: 13 Dec 2021 17:20

Tgt Ion: 63 Resp: 1300
Ion Ratio Lower Upper
63 100
65 295.1 25.4 38.0#
106 0.0 23.2 34.8#

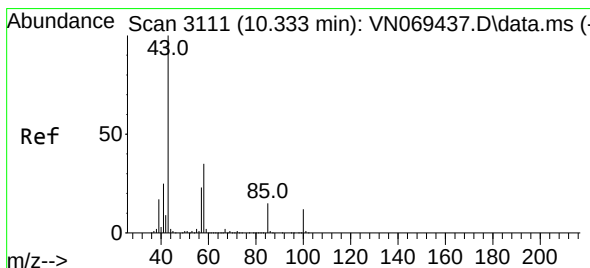
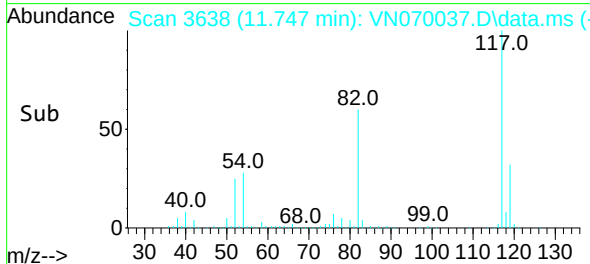
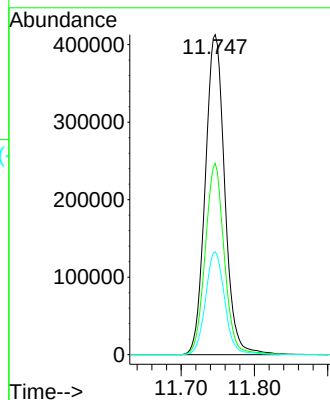
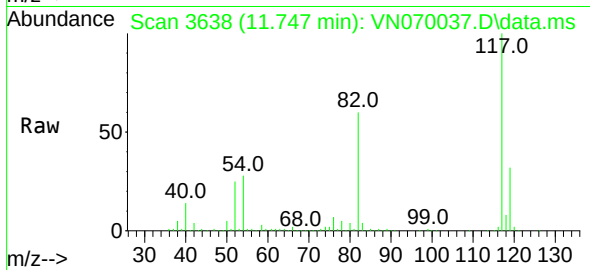




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.003 min
Lab File: VN070037.D
Acq: 13 Dec 2021 17:20

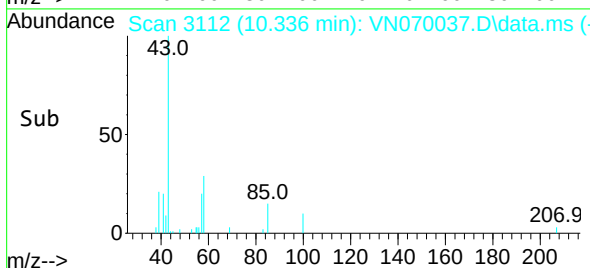
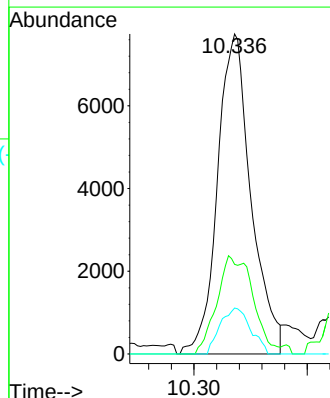
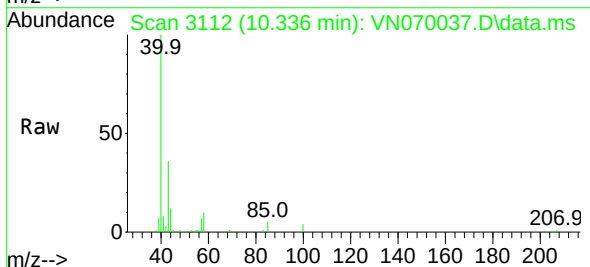
Instrument :
MSVOA_N
ClientSampleId :

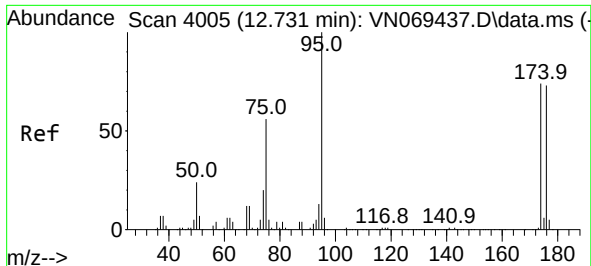
Tgt Ion:117 Resp: 762455
Ion Ratio Lower Upper
117 100
82 58.5 43.6 65.4
119 31.8 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.909 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.005 min
Lab File: VN070037.D
Acq: 13 Dec 2021 17:20

Tgt Ion: 43 Resp: 15905
Ion Ratio Lower Upper
43 100
58 18.9 30.0 45.0#
85 11.6 15.0 22.6#

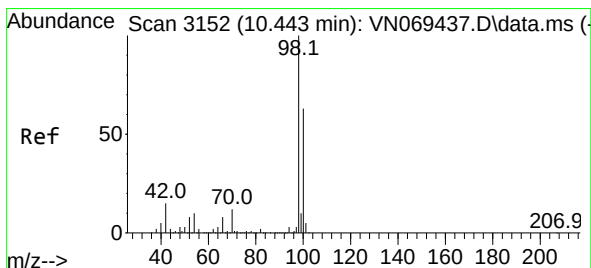
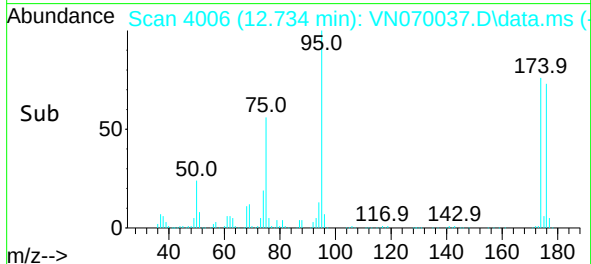
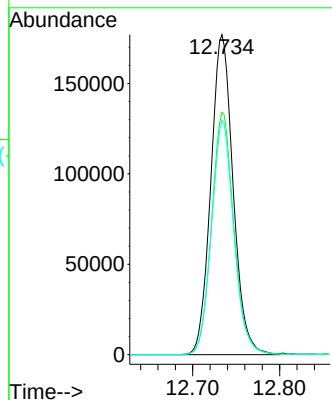
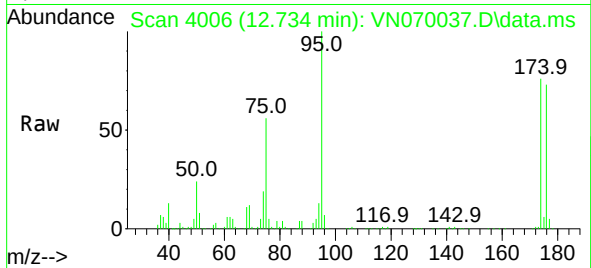




#60
4-Bromofluorobenzene
Concen: 25.122 ug/l
RT: 12.734 min Scan# 4005
Delta R.T. 0.003 min
Lab File: VN070037.D
Acq: 13 Dec 2021 17:20

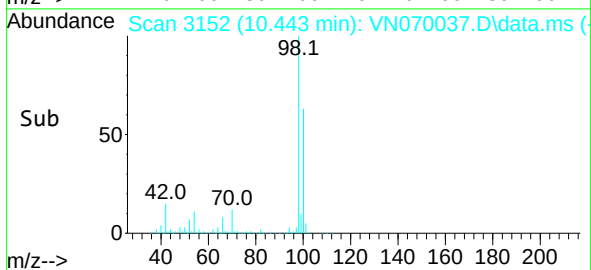
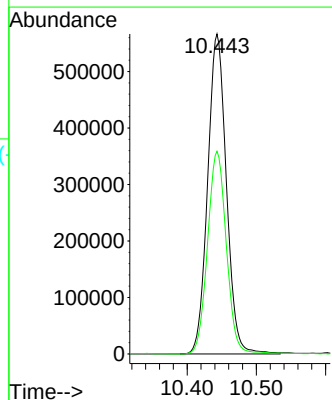
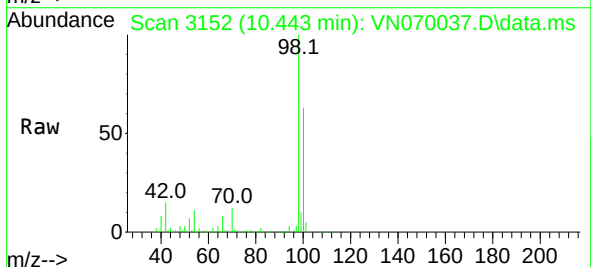
Instrument :
MSVOA_N
ClientSampleId :

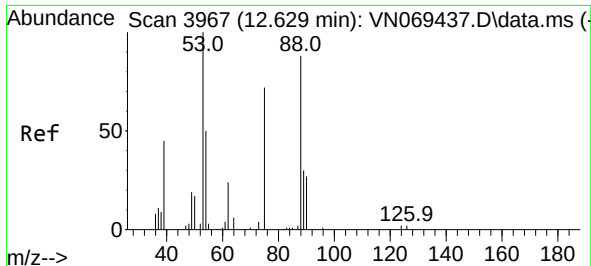
Tgt Ion: 95 Resp: 315178
Ion Ratio Lower Upper
95 100
174 75.6 62.9 94.3
176 73.3 61.0 91.4



#63
Toluene-d8
Concen: 30.208 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VN070037.D
Acq: 13 Dec 2021 17:20

Tgt Ion: 98 Resp: 1064370
Ion Ratio Lower Upper
98 100
100 63.1 50.6 76.0

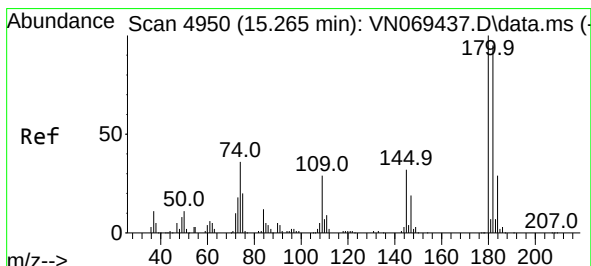
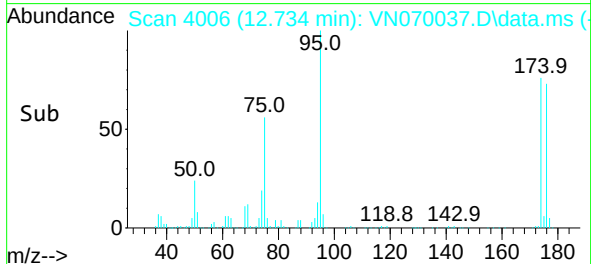
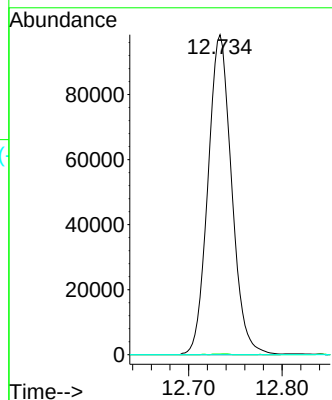
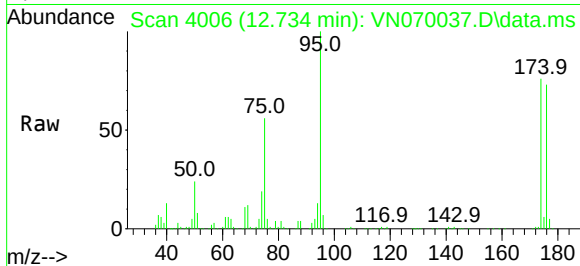




#77
 t-1,4-Dichloro-2-butene
 Concen: 38.194 ug/l
 RT: 12.734 min Scan# 4006
 Delta R.T. 0.110 min
 Lab File: VN070037.D
 Acq: 13 Dec 2021 17:20

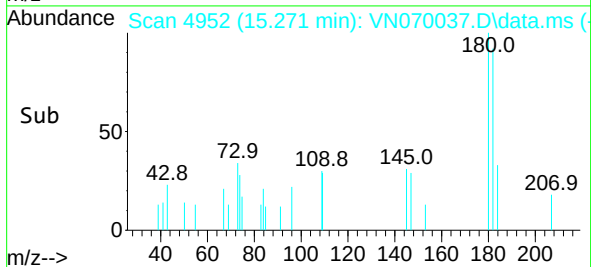
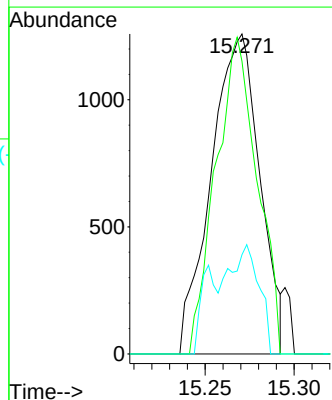
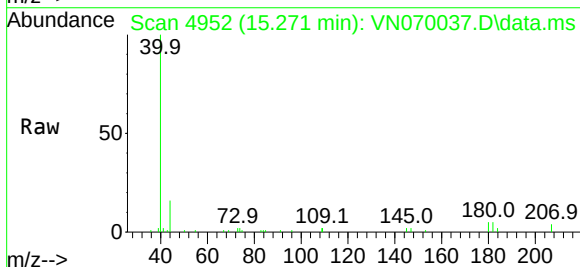
Instrument :
 MSVOA_N
 ClientSampleId :

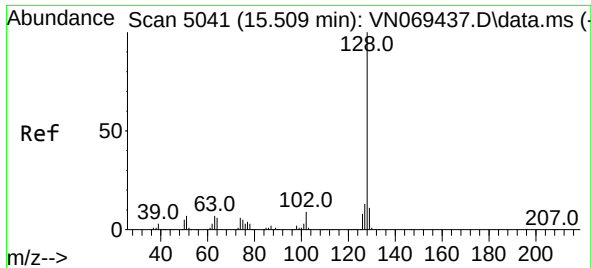
Tgt Ion: 75 Resp: 173312
 Ion Ratio Lower Upper
 75 100
 53 0.2 51.8 155.5#
 89 0.0 22.9 68.7#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.288 ug/l
 RT: 15.271 min Scan# 4952
 Delta R.T. 0.008 min
 Lab File: VN070037.D
 Acq: 13 Dec 2021 17:20

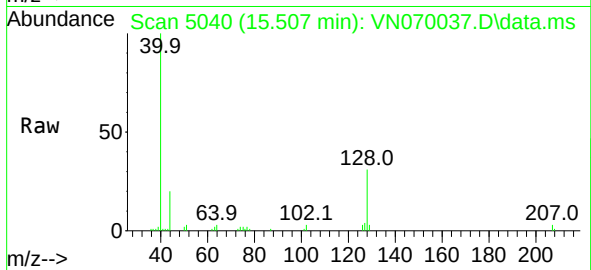
Tgt Ion:180 Resp: 2392
 Ion Ratio Lower Upper
 180 100
 182 84.2 77.7 116.5
 145 15.3 26.6 39.8#





#91
Naphthalene
Concen: 8.507 ug/l
RT: 15.507 min Scan# 50
Delta R.T. 0.003 min
Lab File: VN070037.D
Acq: 13 Dec 2021 17:20

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.7	16.1
129	4.5	9.0	13.6

