

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121924\
 Data File : VN085269.D
 Acq On : 19 Dec 2024 16:47
 Operator : JC\MD
 Sample : P5328-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 19 17:13:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

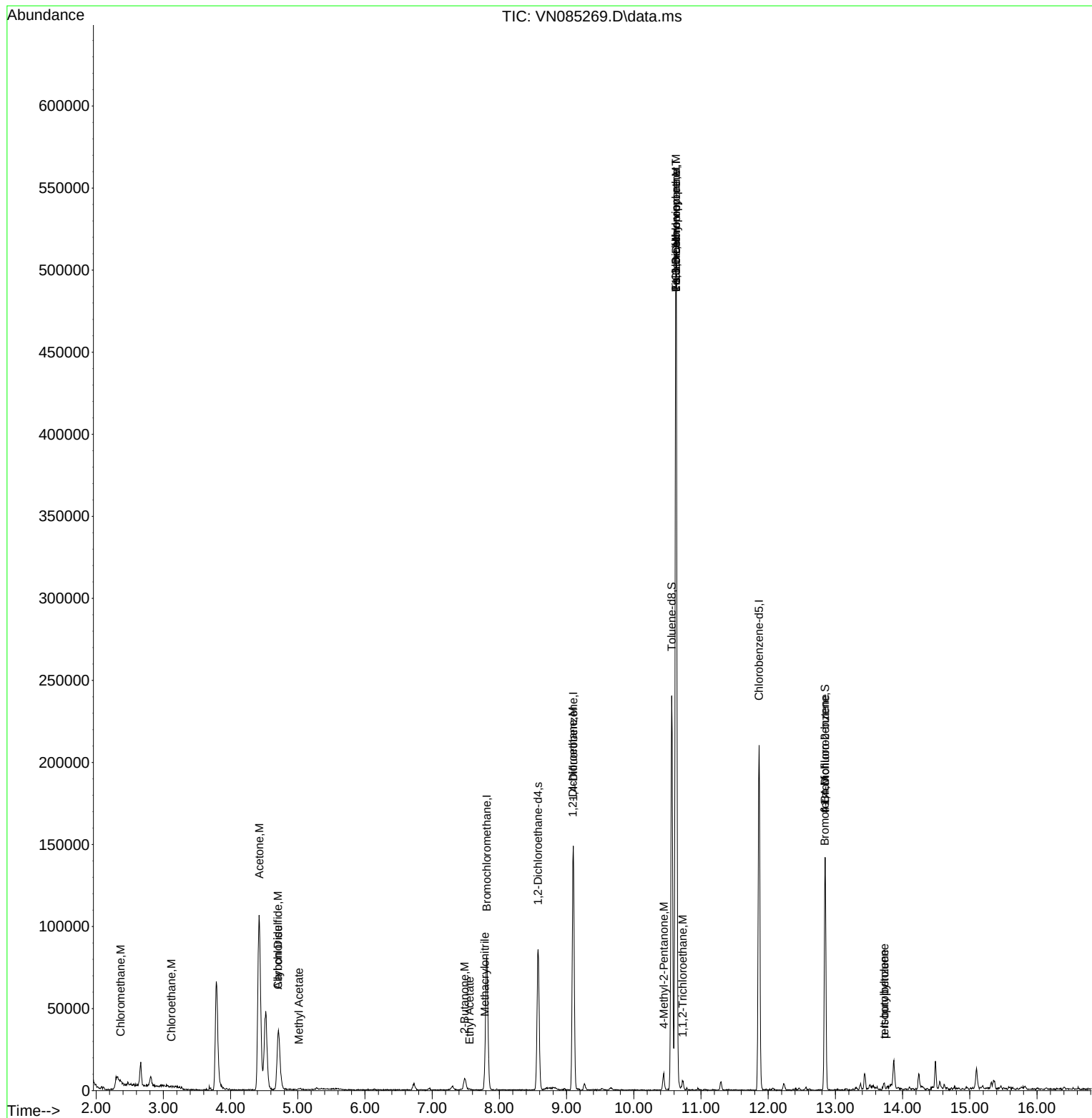
Internal Standards						
1) Bromochloromethane	7.812	128	26431	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	115562	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	111855	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	73245	34.925	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	116.400%#
60) 4-Bromofluorobenzene	12.847	95	46576	25.166	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.900%
63) Toluene-d8	10.565	98	157439	30.006	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.033%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	473	0.253	ug/l #	43
6) Chloroethane	3.118	64	278	0.236	ug/l #	43
12) Methyl Acetate	5.018	43	1000	0.527	ug/l #	51
15) Acetone	4.430	58	57580	269.474	ug/l	81
16) Carbon Disulfide	4.706	76	1908	0.397	ug/l #	75
17) Allyl chloride	4.706	41	3506	1.522	ug/l	92
30) 2-Butanone	7.483	43	11845	13.842	ug/l #	57
35) Methacrylonitrile	7.783	41	254	0.264	ug/l #	24
36) 1,2-Dichloroethane	9.094	62	4879	2.447	ug/l #	75
43) Ethyl Acetate	7.559	43	822	0.483	ug/l #	61
48) t-1,3-Dichloropropene	10.629	75	2803	1.312	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	2803	1.206	ug/l #	1
50) 1,1,2-Trichloroethane	10.729	97	4136	3.016	ug/l #	22
55) 2-Chloroethyl vinyl ether	10.629	63	31096	32.091	ug/l #	1
56) Bromoform	12.841	173	298	0.266	ug/l #	34
58) 4-Methyl-2-Pentanone	10.447	43	6931	3.797	ug/l #	82
62) Toluene	10.629	91	394170	60.424	ug/l	99
77) t-1,4-Dichloro-2-butene	12.847	75	26603	37.756	ug/l #	10
79) tert-butylbenzene	13.729	119	2110	0.465	ug/l	49
82) p-Isopropyltoluene	13.729	119	2110	0.395	ug/l	85

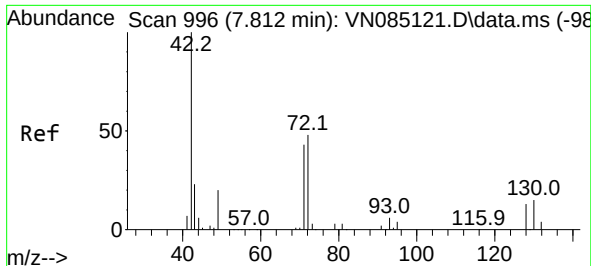
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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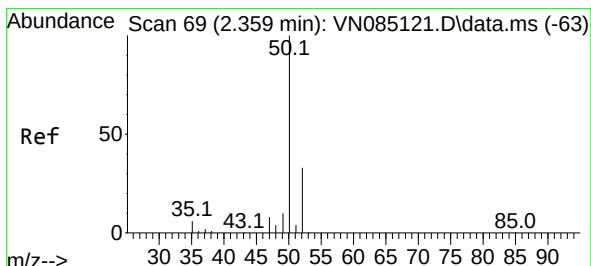
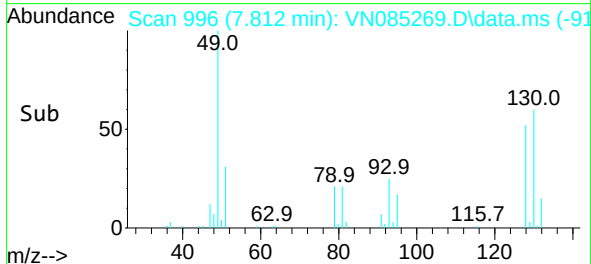
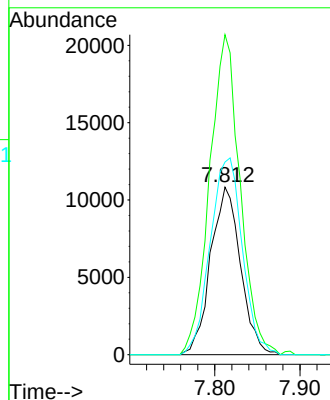
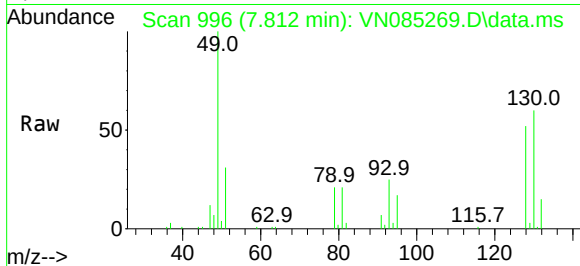




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

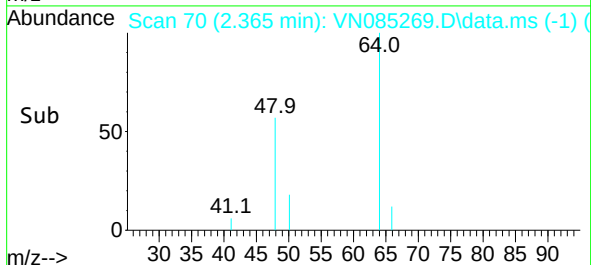
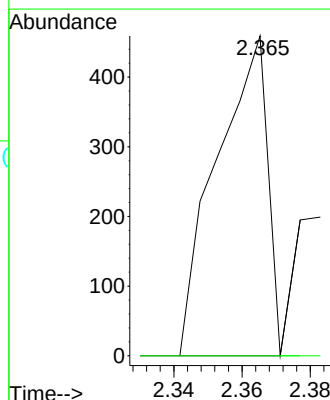
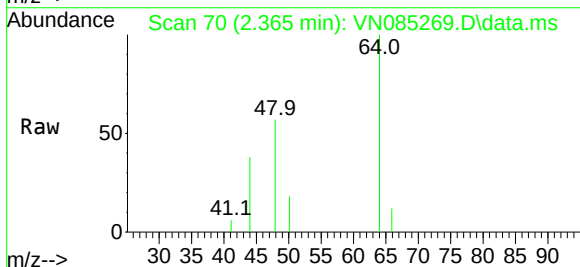
Instrument :
MSVOA_N
ClientSampleId :

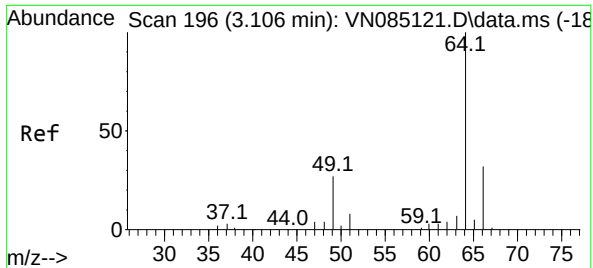
Tgt Ion:128 Resp: 26431
Ion Ratio Lower Upper
128 100
49 194.0 0.0 394.5
130 126.4 0.0 316.5



#3
Chloromethane
Concen: 0.253 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

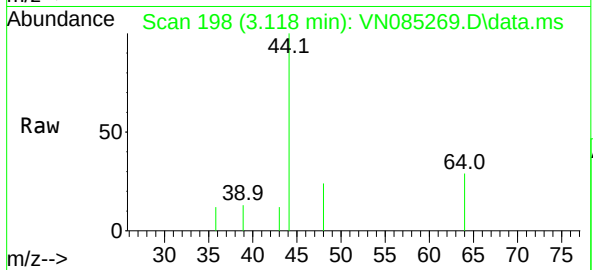
Tgt Ion: 50 Resp: 473
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#



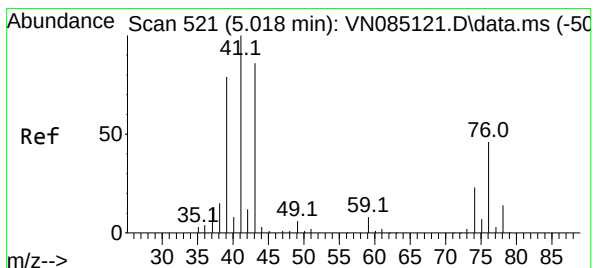
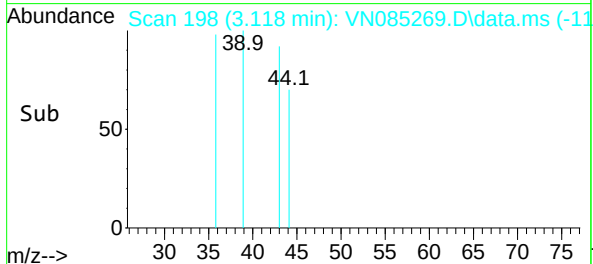


#6
Chloroethane
Concen: 0.236 ug/l
RT: 3.118 min Scan# 196
Delta R.T. -0.006 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Instrument :
MSVOA_N
ClientSampleId :

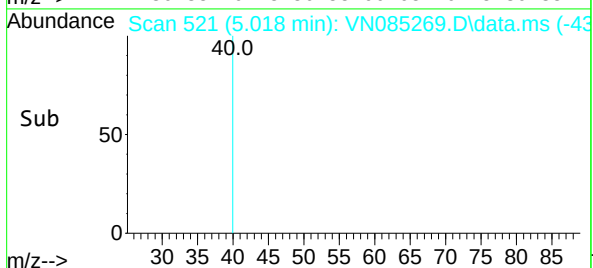
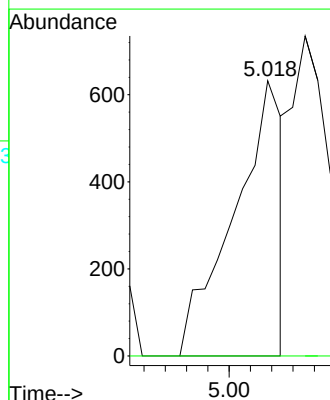
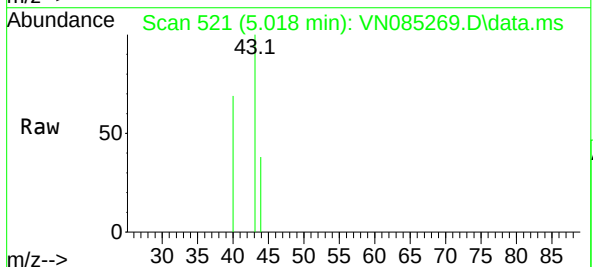


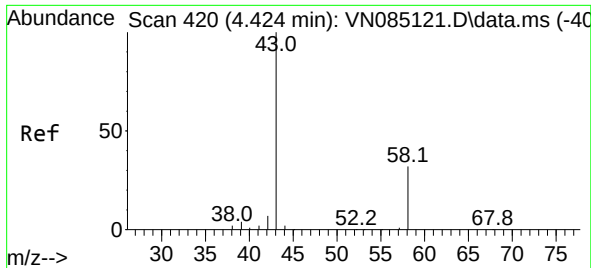
Tgt Ion: 64 Resp: 278
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



#12
Methyl Acetate
Concen: 0.527 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Tgt Ion: 43 Resp: 1000
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#





#15

Acetone

Concen: 269.474 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN085269.D

Acq: 19 Dec 2024 16:47

Instrument :

MSVOA_N

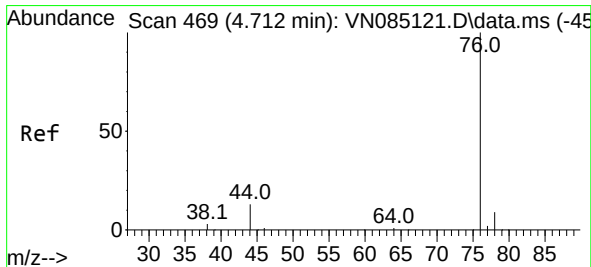
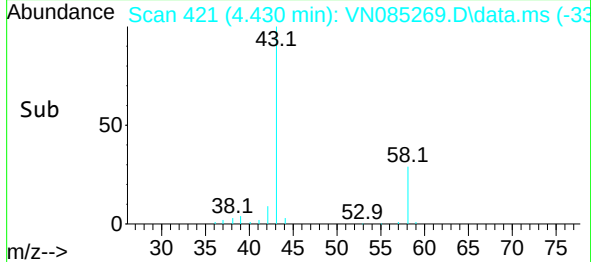
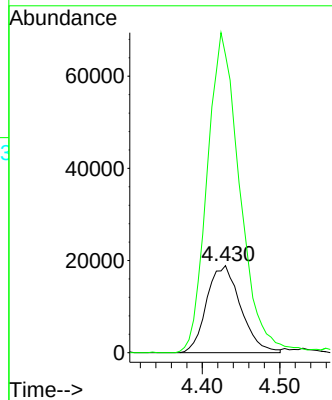
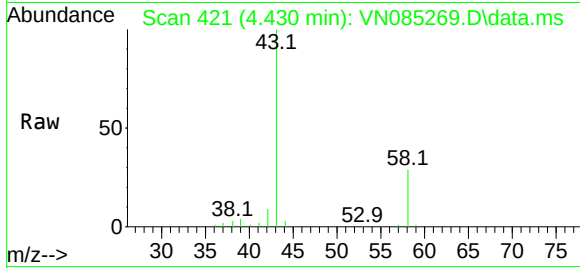
ClientSampleId :

Tgt Ion: 58 Resp: 57580

Ion Ratio Lower Upper

58 100

43 340.4 242.3 363.5



#16

Carbon Disulfide

Concen: 0.397 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN085269.D

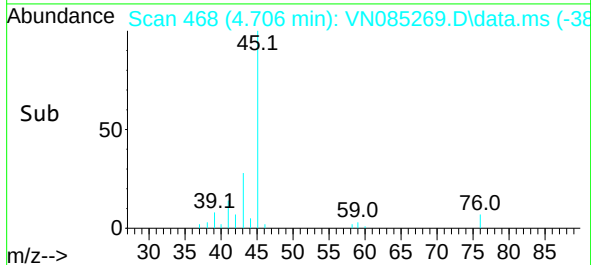
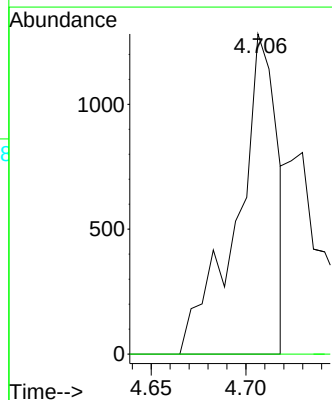
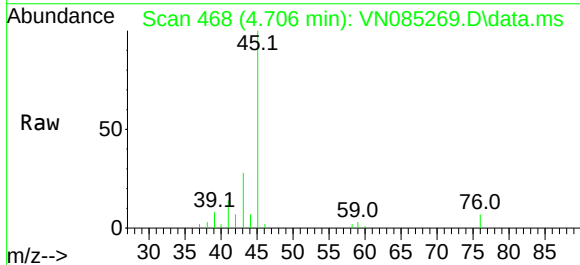
Acq: 19 Dec 2024 16:47

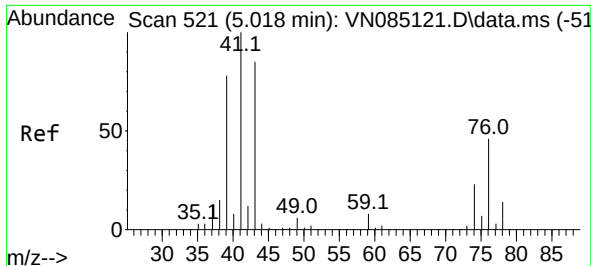
Tgt Ion: 76 Resp: 1908

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#17

Allyl chloride

Concen: 1.522 ug/l

RT: 4.706 min Scan# 41

Delta R.T. -0.318 min

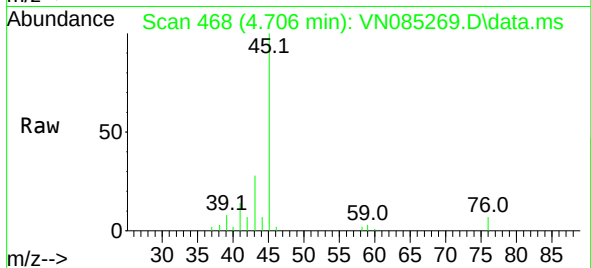
Lab File: VN085269.D

Acq: 19 Dec 2024 16:47

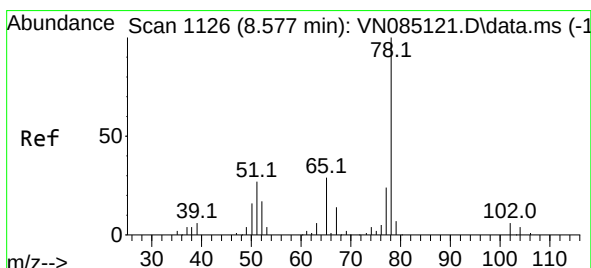
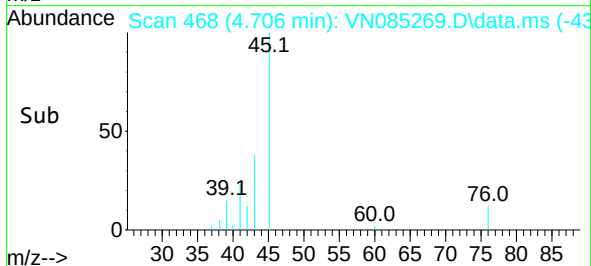
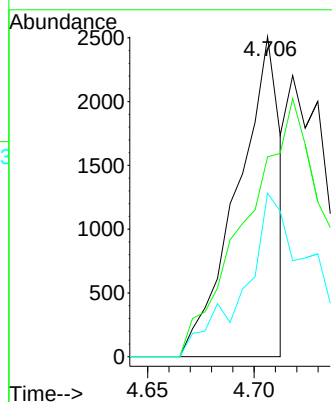
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 41	Resp: 3506
Ion Ratio	Lower Upper
41	100
39	62.5 32.0 96.2
76	51.1 20.2 60.5



#27

1,2-Dichloroethane-d4

Concen: 34.925 ug/l

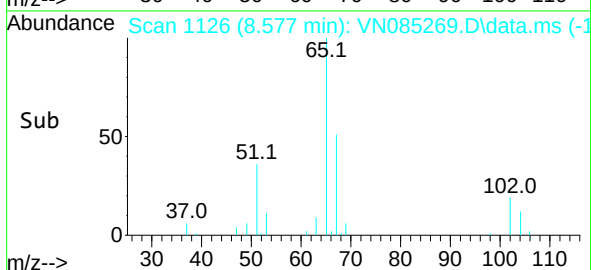
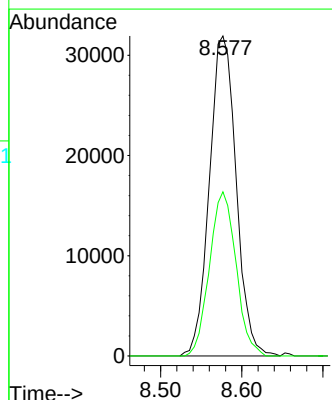
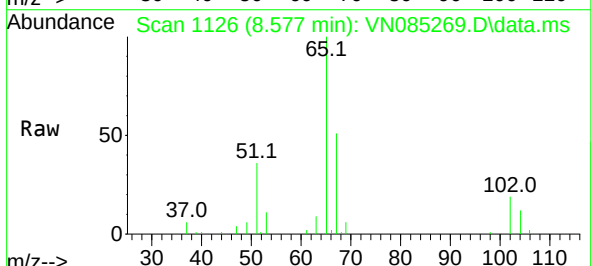
RT: 8.577 min Scan# 1126

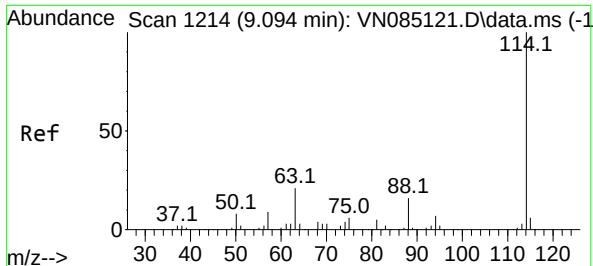
Delta R.T. 0.000 min

Lab File: VN085269.D

Acq: 19 Dec 2024 16:47

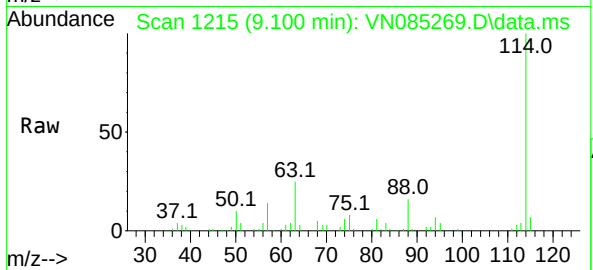
Tgt Ion: 65	Resp: 73245
Ion Ratio	Lower Upper
65	100
67	50.8 39.9 59.9



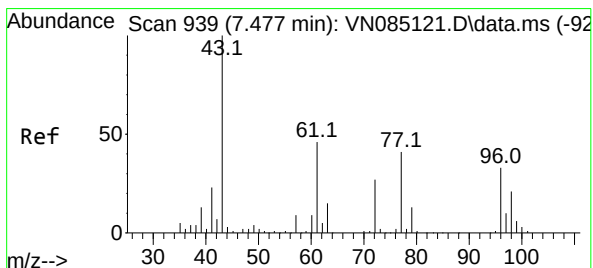
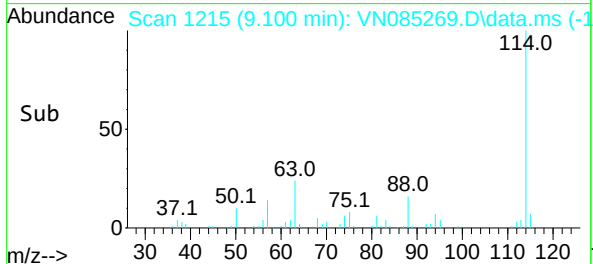
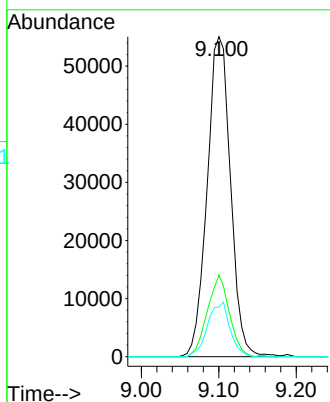


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 115562
Delta R.T. 0.000 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Instrument :
MSVOA_N
ClientSampleId :

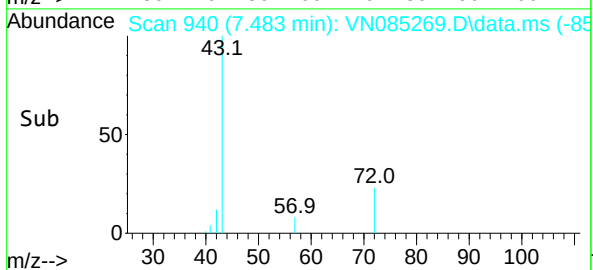
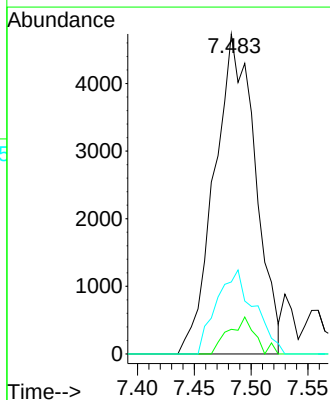
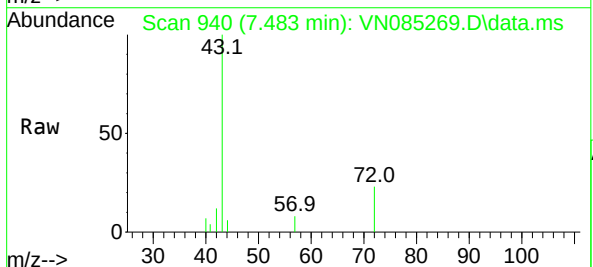


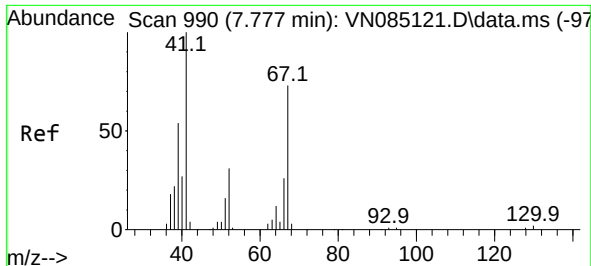
Tgt Ion:114 Resp: 115562
Ion Ratio Lower Upper
114 100
63 23.9 16.2 24.2
88 16.3 12.5 18.7



#30
2-Butanone
Concen: 13.842 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

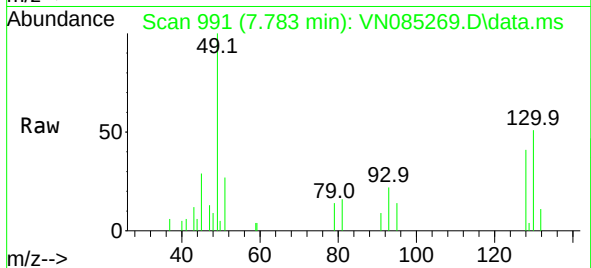
Tgt Ion: 43 Resp: 11845
Ion Ratio Lower Upper
43 100
57 3.6 6.9 10.3#
72 0.0 21.8 32.8#



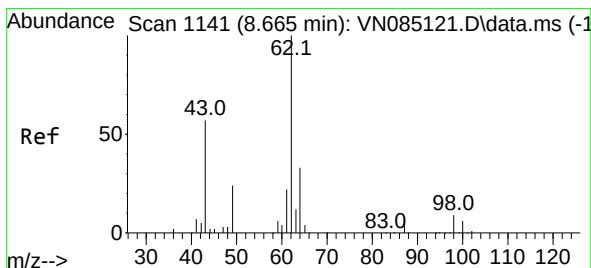
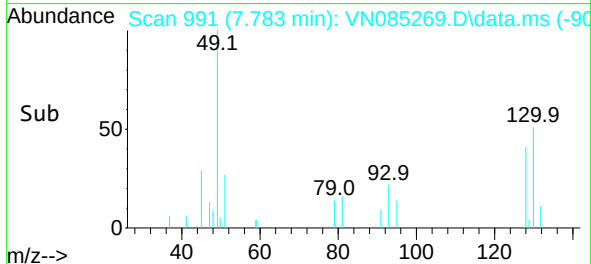
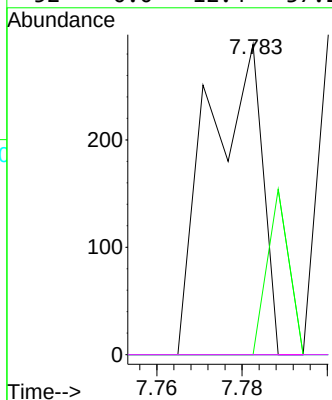


#35
Methacrylonitrile
Concen: 0.264 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Instrument :
MSVOA_N
ClientSampleId :

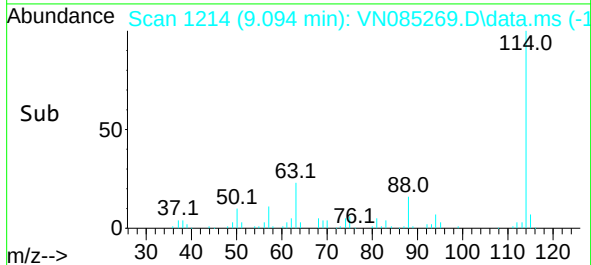
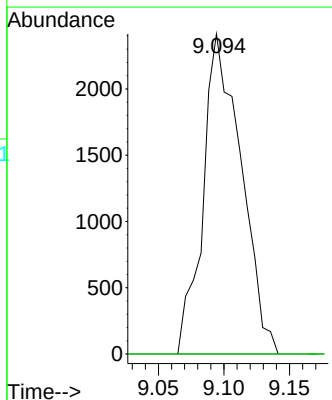
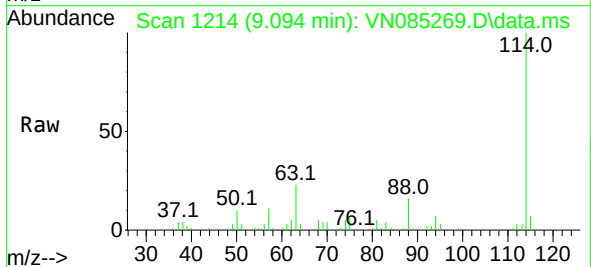


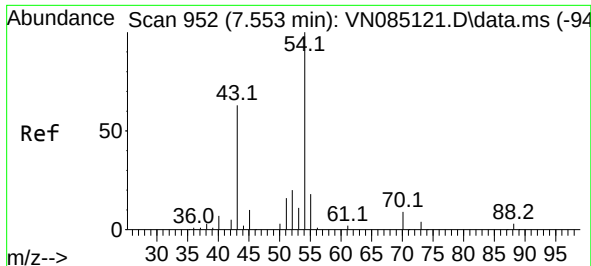
Tgt Ion:	41	Resp:	254
Ion	Ratio	Lower	Upper
41	100		
39	0.0	24.4	73.2#
67	0.0	37.0	110.9#
52	0.0	12.4	37.2#



#36
1,2-Dichloroethane
Concen: 2.447 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.429 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

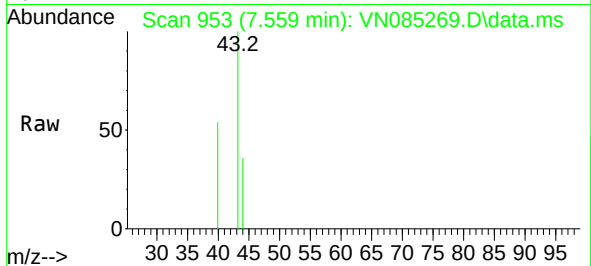
Tgt Ion:	62	Resp:	4879
Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.3	10.9#



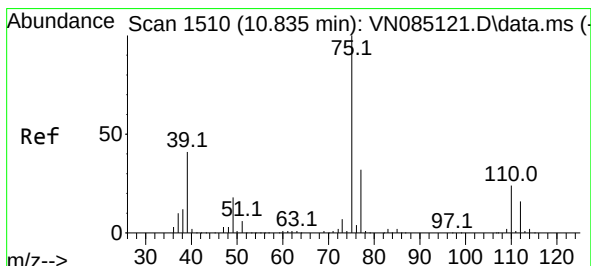
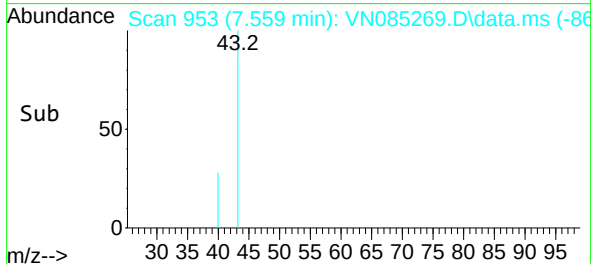
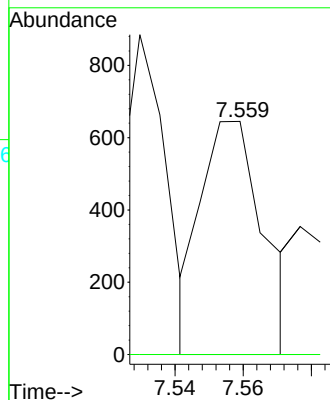


#43
Ethyl Acetate
Concen: 0.483 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Instrument :
MSVOA_N
ClientSampleId :

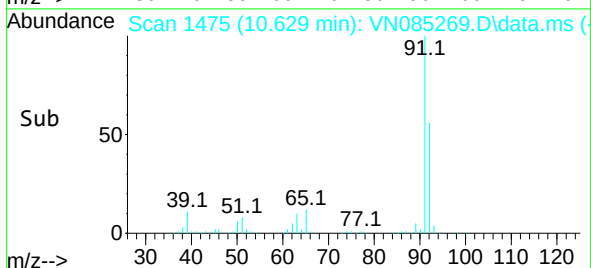
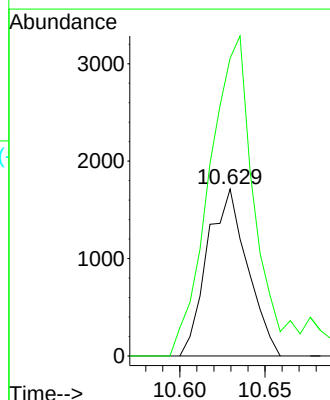
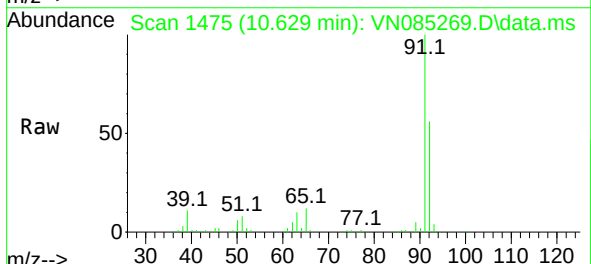


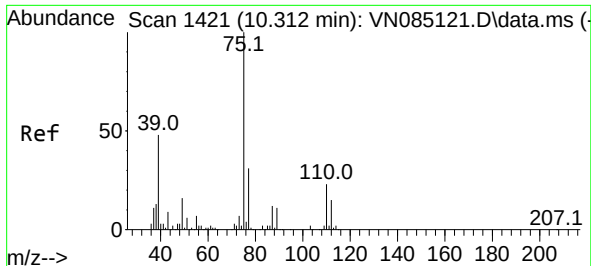
Tgt Ion: 43 Resp: 822
Ion Ratio Lower Upper
43 100
45 0.0 13.3 19.9#



#48
t-1,3-Dichloropropene
Concen: 1.312 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

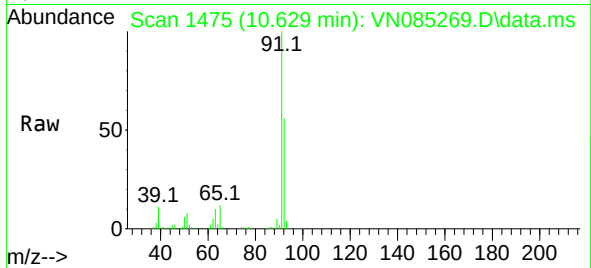
Tgt Ion: 75 Resp: 2803
Ion Ratio Lower Upper
75 100
77 163.9 25.5 38.3#



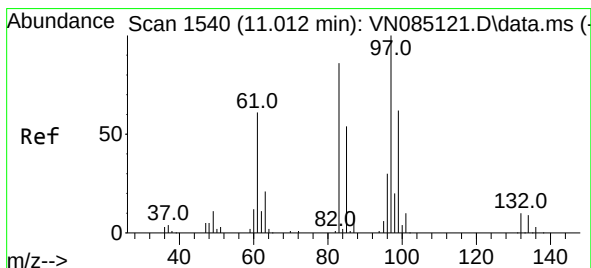
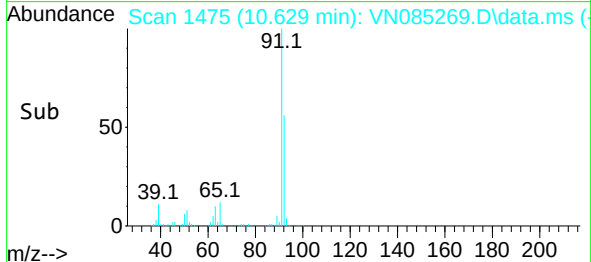
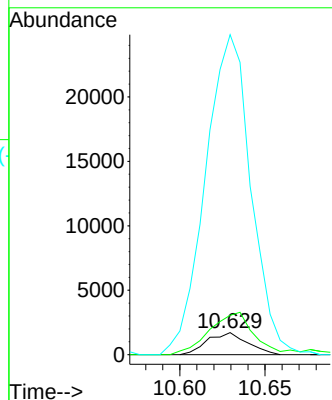


#49
cis-1,3-Dichloropropene
Concen: 1.206 ug/l
RT: 10.629 min Scan# 1421
Delta R.T. 0.318 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Instrument :
MSVOA_N
ClientSampleId :

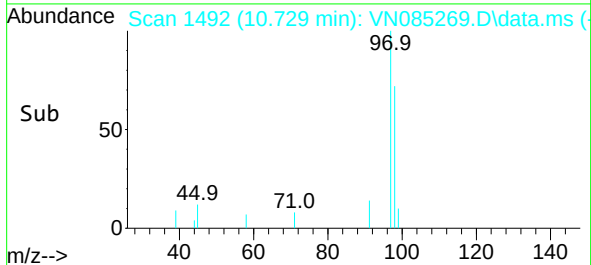
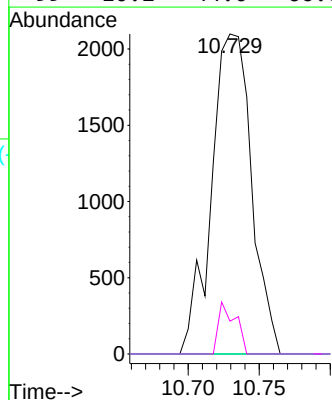
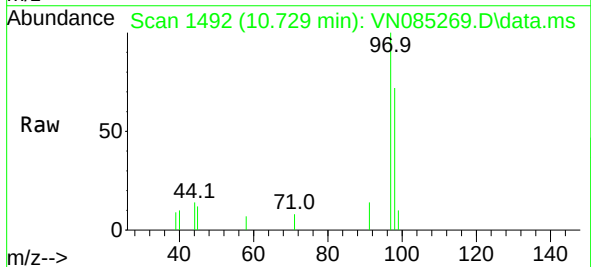


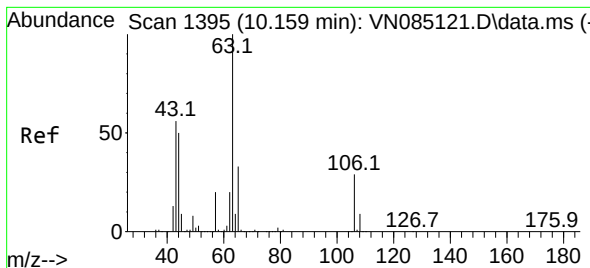
Tgt Ion: 75 Resp: 2803
Ion Ratio Lower Upper
75 100
77 163.9 23.8 35.6#
39 1384.4 37.3 55.9#



#50
1,1,2-Trichloroethane
Concen: 3.016 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.282 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

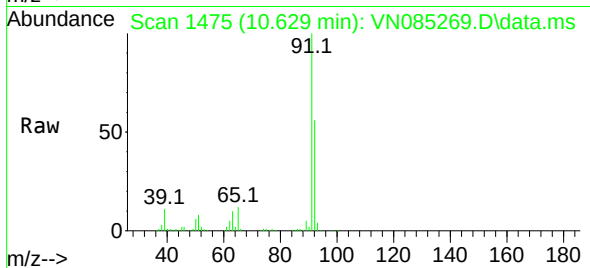
Tgt Ion: 97 Resp: 4136
Ion Ratio Lower Upper
97 100
83 0.0 65.8 98.8#
85 0.0 40.8 61.2#
99 10.2 44.0 66.0#



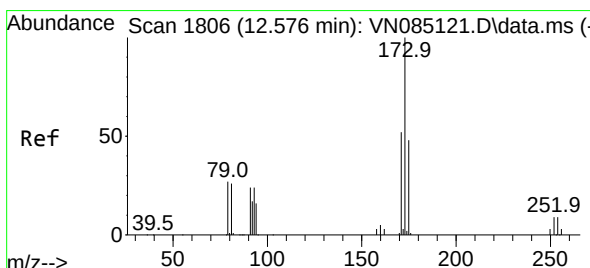
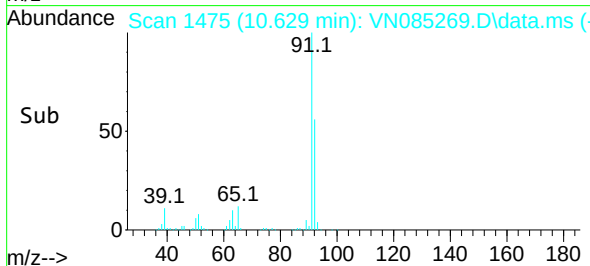
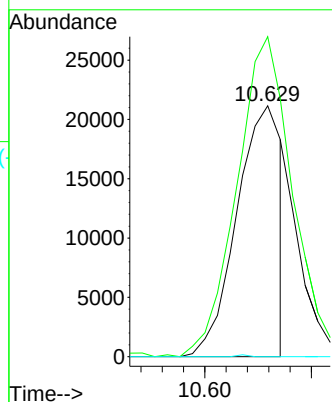


#55
2-Chloroethyl vinyl ether
Concen: 32.091 ug/l
RT: 10.629 min Scan# 14
Delta R.T. 0.471 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Instrument :
MSVOA_N
ClientSampleId :

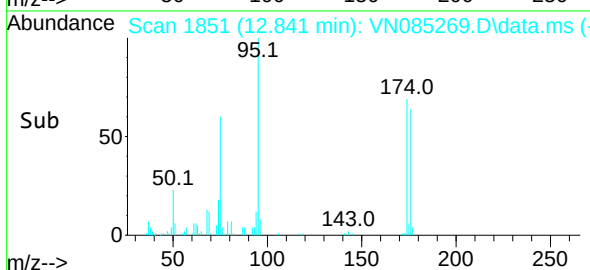
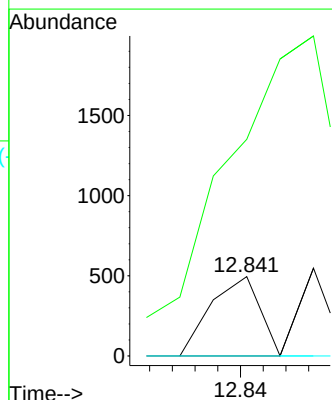
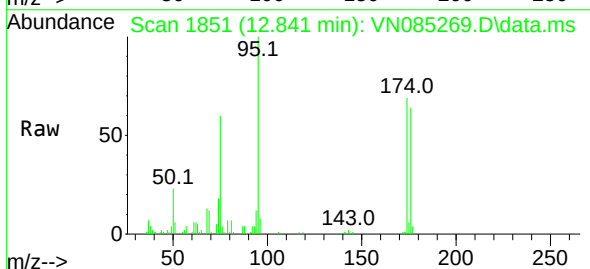


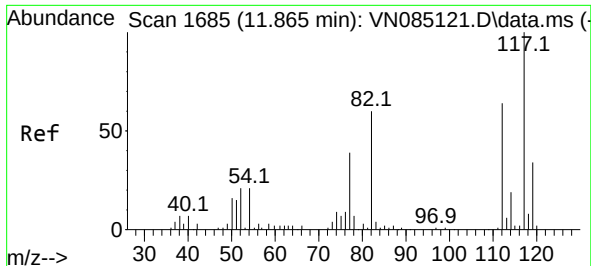
Tgt Ion: 63 Resp: 31096
Ion Ratio Lower Upper
63 100
65 125.1 25.9 38.9#
106 0.0 23.5 35.3#



#56
Bromoform
Concen: 0.266 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Tgt Ion:173 Resp: 298
Ion Ratio Lower Upper
173 100
175 0.0 40.2 60.2#
254 0.0 6.2 9.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1118

Delta R.T. 0.000 min

Lab File: VN085269.D

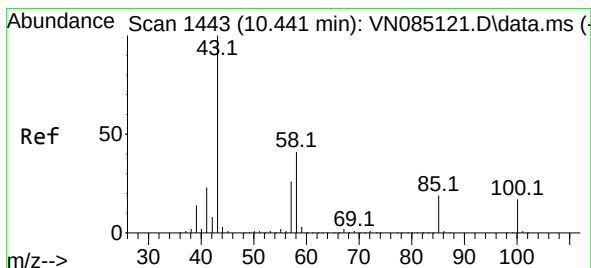
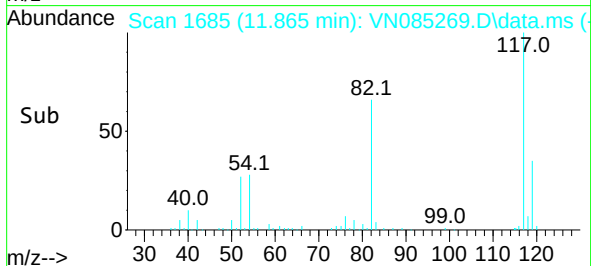
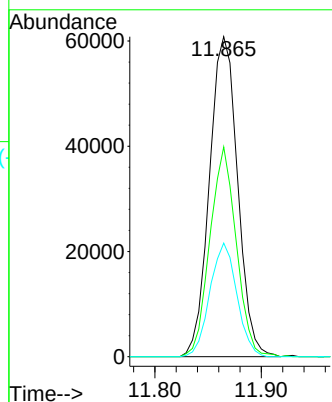
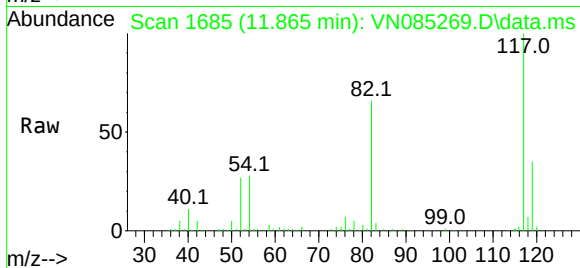
Acq: 19 Dec 2024 16:47

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	117	Resp:	111855
Ion	Ratio	Lower	Upper
117	100		
82	61.3	44.2	66.4
119	34.0	25.4	38.2



#58

4-Methyl-2-Pentanone

Concen: 3.797 ug/l

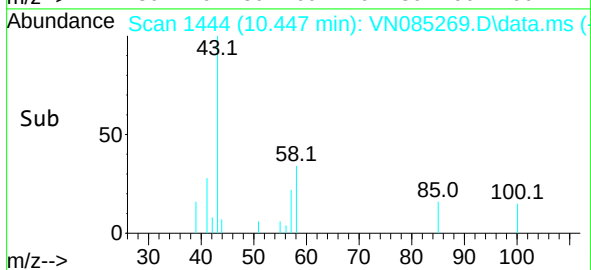
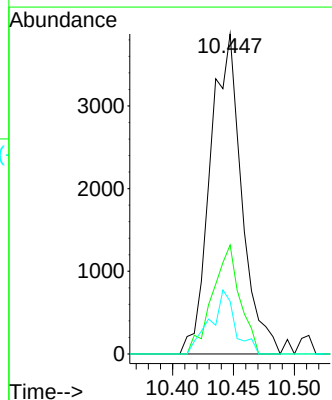
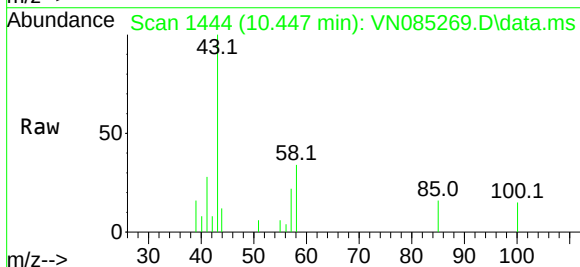
RT: 10.447 min Scan# 1444

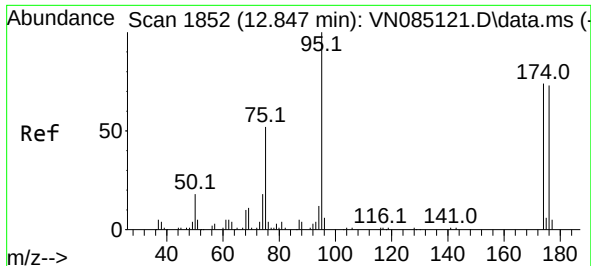
Delta R.T. 0.006 min

Lab File: VN085269.D

Acq: 19 Dec 2024 16:47

Tgt Ion:	43	Resp:	6931
Ion	Ratio	Lower	Upper
43	100		
58	29.7	31.6	47.4#
85	8.9	15.0	22.6#

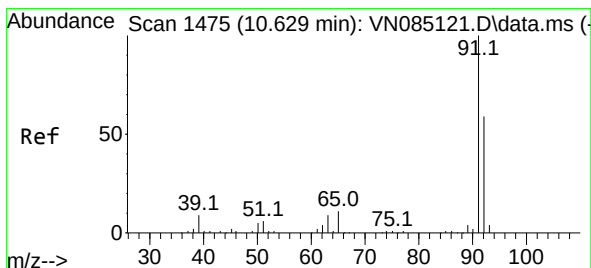
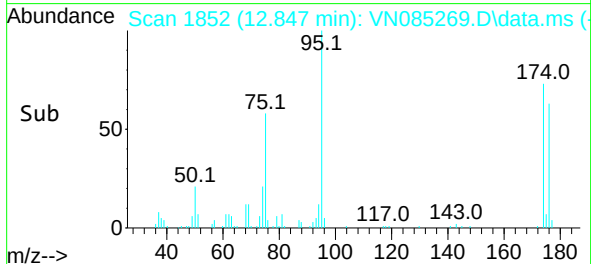
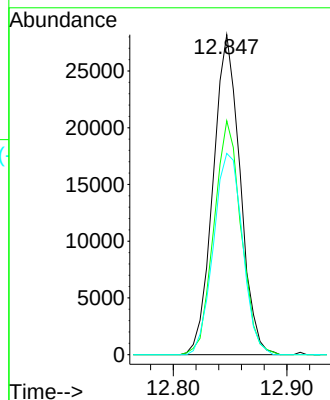
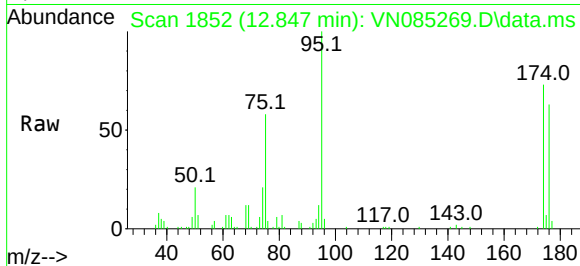




#60
4-Bromofluorobenzene
Concen: 25.166 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

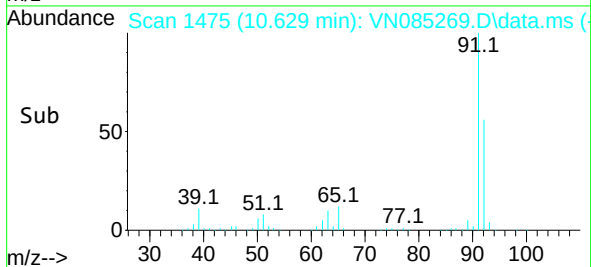
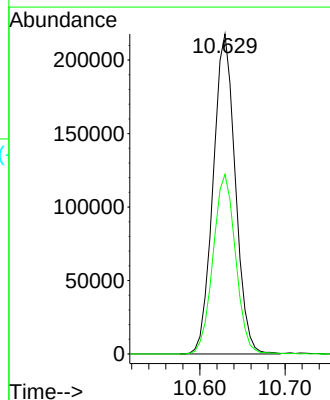
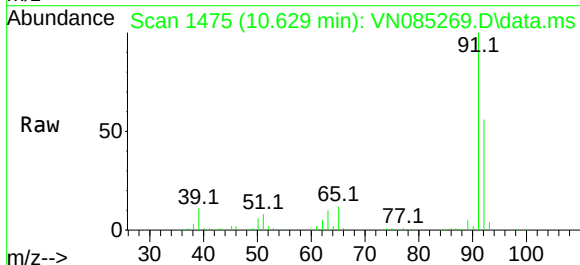
Instrument :
MSVOA_N
ClientSampleId :

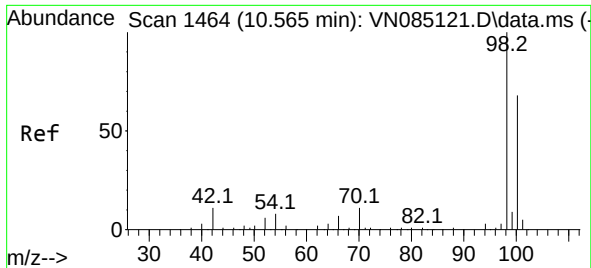
Tgt Ion: 95 Resp: 46576
Ion Ratio Lower Upper
95 100
174 73.5 60.3 90.5
176 67.7 57.4 86.0



#62
Toluene
Concen: 60.424 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Tgt Ion: 91 Resp: 394170
Ion Ratio Lower Upper
91 100
92 57.0 46.5 69.7

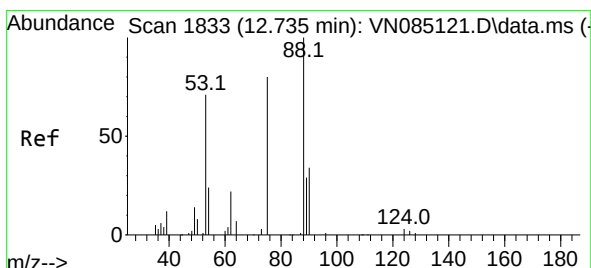
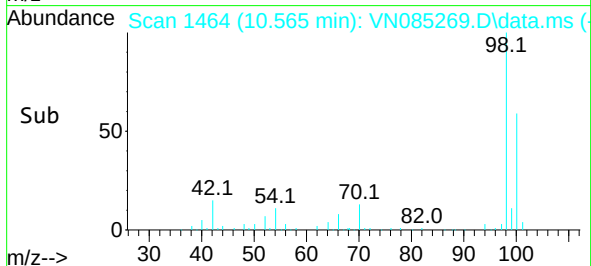
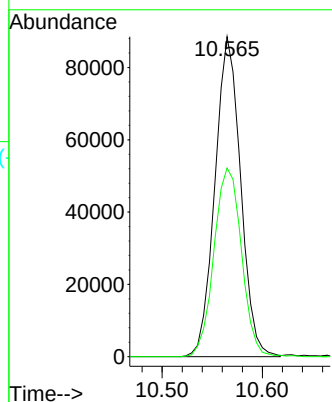
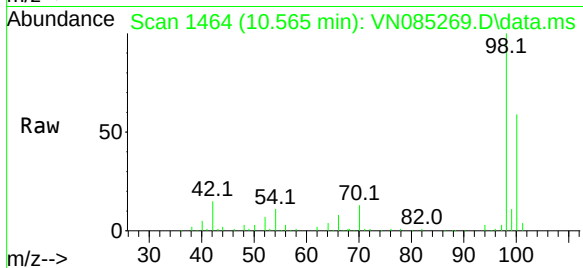




#63
Toluene-d8
Concen: 30.006 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

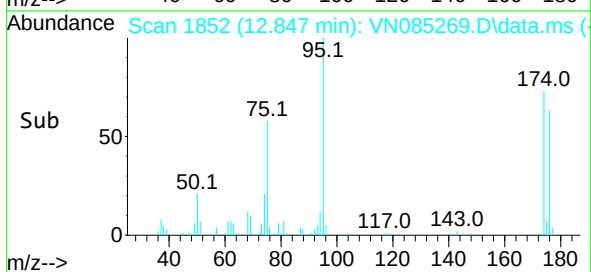
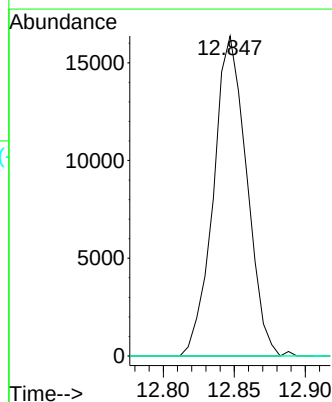
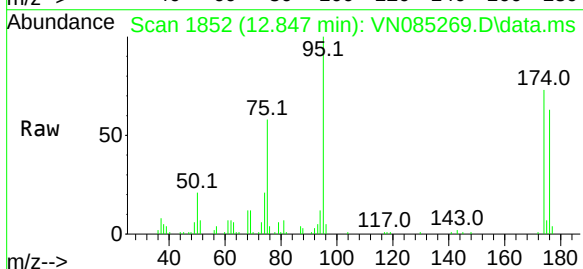
Instrument :
MSVOA_N
ClientSampleId :

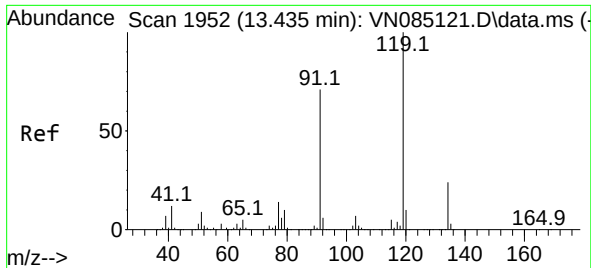
Tgt Ion: 98 Resp: 157439
Ion Ratio Lower Upper
98 100
100 63.2 52.0 78.0



#77
t-1,4-Dichloro-2-butene
Concen: 37.756 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Tgt Ion: 75 Resp: 26603
Ion Ratio Lower Upper
75 100
53 0.0 49.1 147.3#
89 0.0 22.9 68.5#

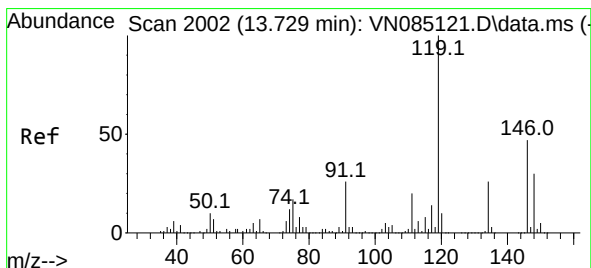
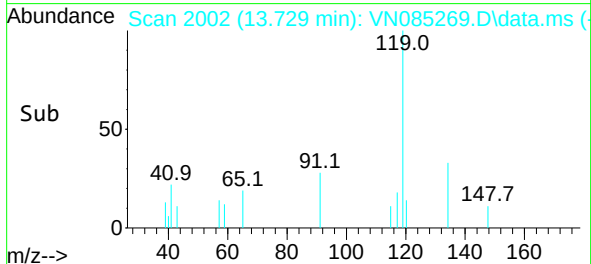
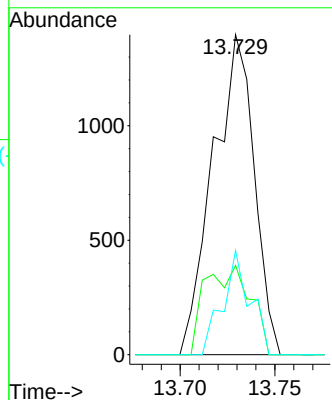
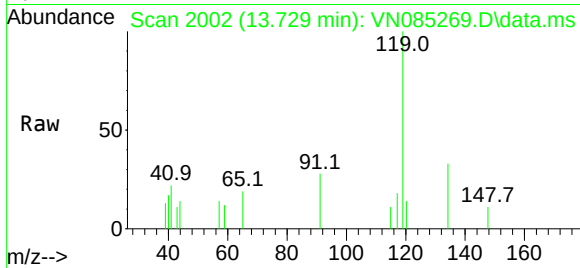




#79
tert-butylbenzene
Concen: 0.465 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.294 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:119 Resp: 2110
Ion Ratio Lower Upper
119 100
91 14.6 0.0 139.2
134 21.6 0.0 48.0



#82
p-Isopropyltoluene
Concen: 0.395 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085269.D
Acq: 19 Dec 2024 16:47

Tgt Ion:119 Resp: 2110
Ion Ratio Lower Upper
119 100
134 21.6 0.0 51.6
91 14.6 0.0 50.4

