

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092724\
 Data File : VN084205.D
 Acq On : 27 Sep 2024 15:53
 Operator : JC\MD
 Sample : PB163689ZHE#2
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 28 01:00:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

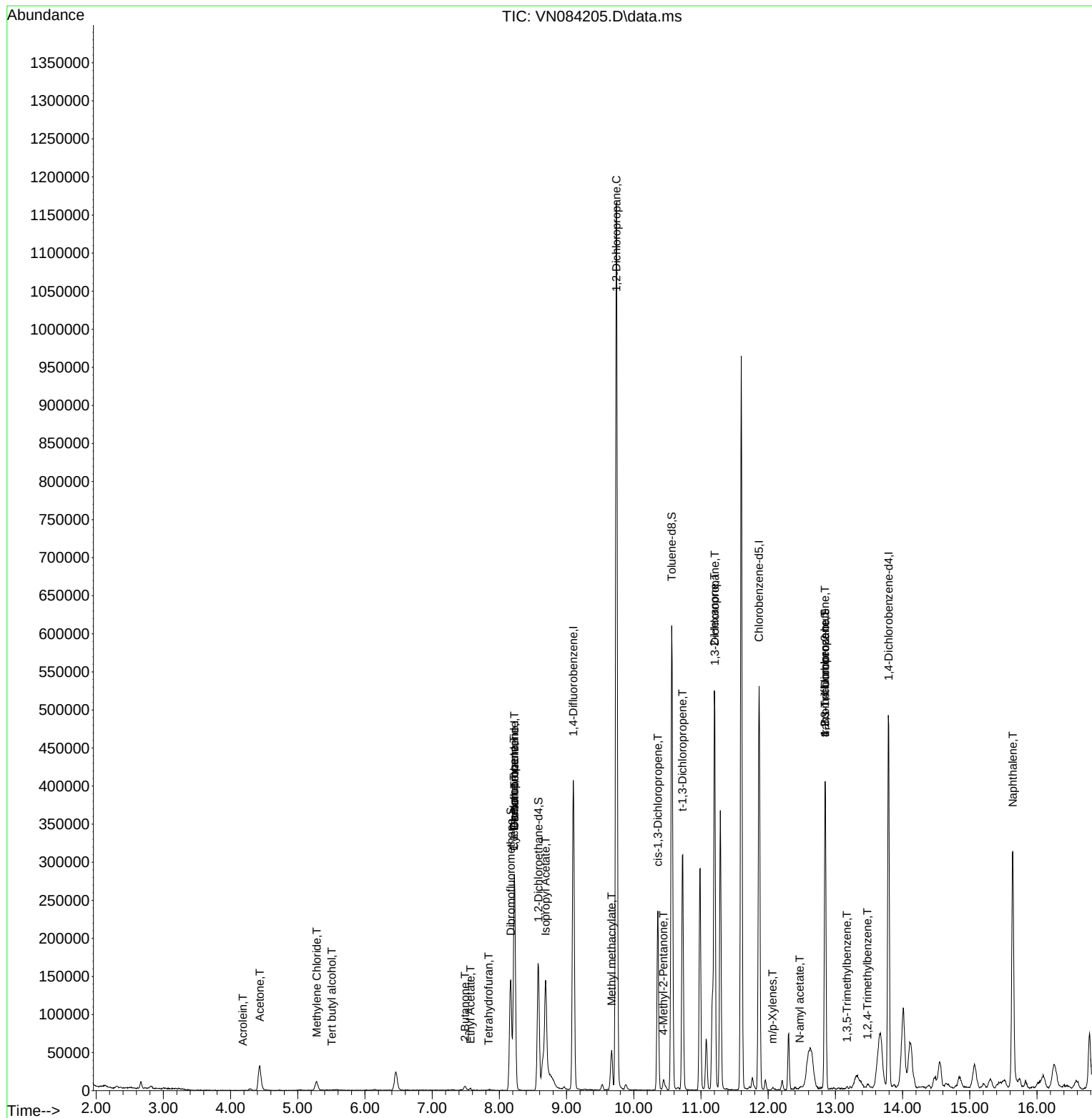
Internal Standards						
1) Pentafluorobenzene	8.224	168	195973	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	344003	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	292277	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	127305	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	138279	46.795	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.580%		
35) Dibromofluoromethane	8.171	113	106762	48.478	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.960%		
50) Toluene-d8	10.565	98	411878	54.099	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	108.200%		
62) 4-Bromofluorobenzene	12.847	95	142430	45.344	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	90.680%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	121	Below Cal	#	41
11) Tert butyl alcohol	5.506	59	231	0.584	ug/l #	71
13) Acrolein	4.183	56	137	0.351	ug/l #	13
16) Acetone	4.436	43	62341	52.627	ug/l	98
18) Methyl Acetate	5.030	43	1511	Below Cal	#	60
20) Methylene Chloride	5.283	84	8720	3.597	ug/l	94
25) 2-Butanone	7.488	43	9275	5.957	ug/l	92
29) Tetrahydrofuran	7.841	42	960	1.043	ug/l #	52
31) Cyclohexane	8.218	56	5009	1.173	ug/l #	12
36) 1,1-Dichloropropene	8.218	75	17918	5.406	ug/l #	50
37) Ethyl Acetate	7.571	43	3399	1.130	ug/l #	84
38) Carbon Tetrachloride	8.224	117	21632	5.752	ug/l #	16
43) Isopropyl Acetate	8.688	43	241003	44.202	ug/l #	77
45) 1,2-Dichloropropane	9.741	63	1474	0.611	ug/l #	42
48) Methyl methacrylate	9.671	41	3568	1.379	ug/l #	48
51) 4-Methyl-2-Pentanone	10.441	43	13618	4.588	ug/l #	81
53) t-1,3-Dichloropropene	10.723	75	789	0.213	ug/l #	42
54) cis-1,3-Dichloropropene	10.359	75	43249	11.112	ug/l #	58
57) 1,3-Dichloropropane	11.206	76	5627	1.437	ug/l #	42
59) 2-Hexanone	11.200	43	69638	31.719	ug/l #	54
68) m/p-Xylenes	12.065	106	1173	0.274	ug/l	99
74) N-amyl acetate	12.470	43	900	0.214	ug/l #	53
76) 1,2,3-Trichloropropane	12.847	75	77169	30.041	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.170	105	1806	0.217	ug/l	89
81) trans-1,4-Dichloro-2-b...	12.847	75	77169	78.680	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.476	105	3357	0.402	ug/l	83
95) Naphthalene	15.641	128	285981	40.566	ug/l	98

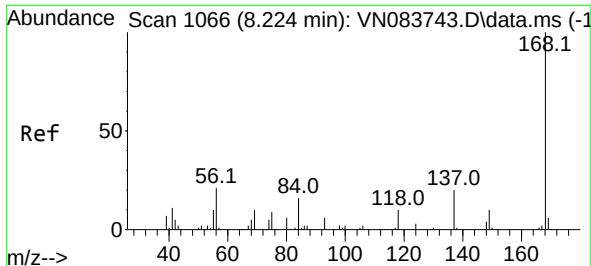
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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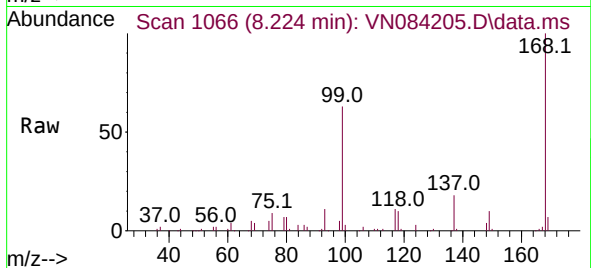
Quant Time: Sep 28 01:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
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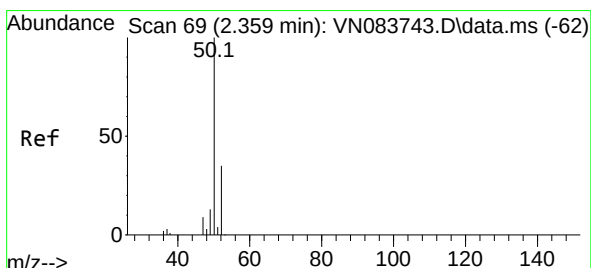
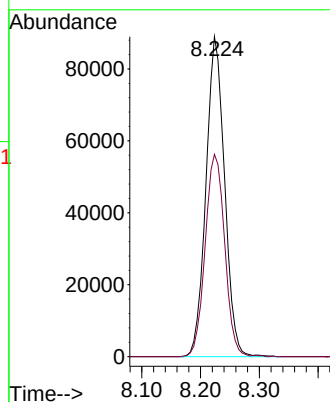
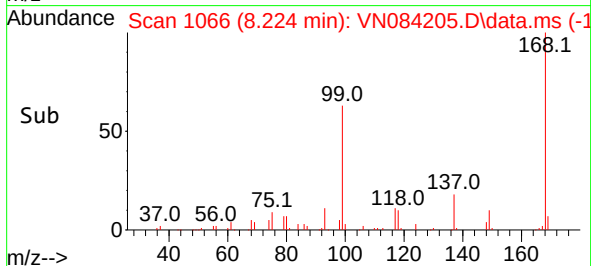


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

Instrument :
MSVOA_N
ClientSampleId :

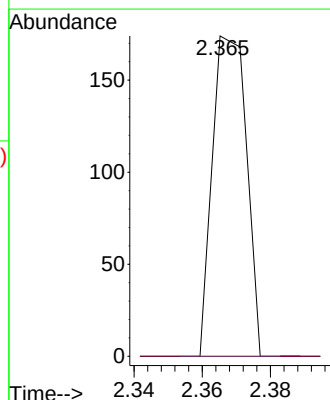
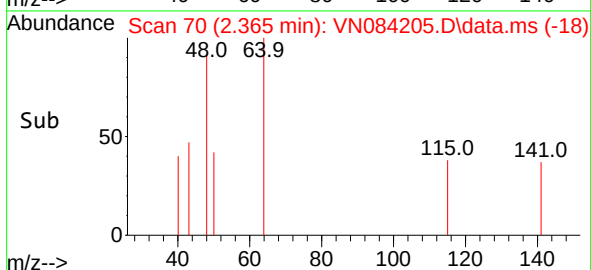
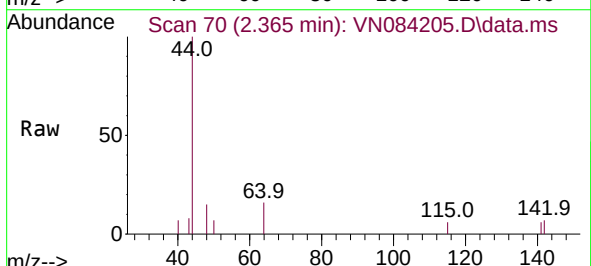


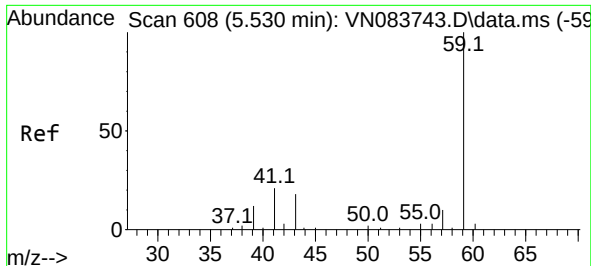
Tgt Ion:168 Resp: 195973
Ion Ratio Lower Upper
168 100
99 63.3 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

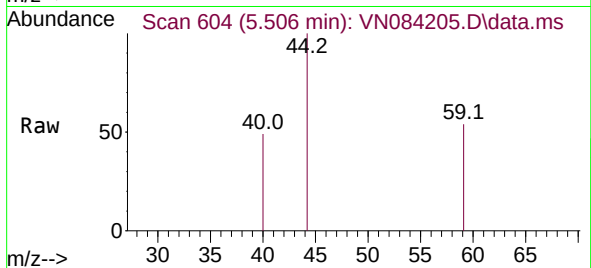
Tgt Ion: 50 Resp: 121
Ion Ratio Lower Upper
50 100
52 0.0 27.2 40.8#



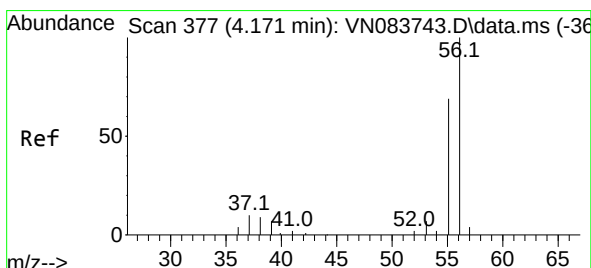
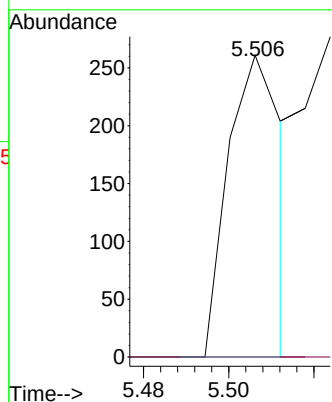
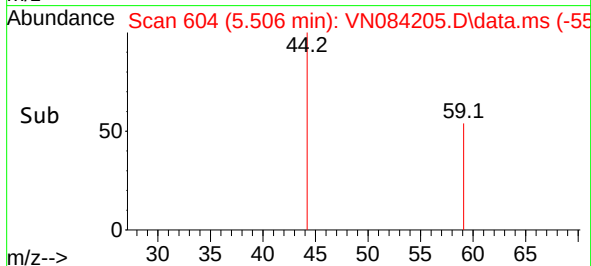


#11
Tert butyl alcohol
Concen: 0.584 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.024 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

Instrument :
MSVOA_N
ClientSampleId :

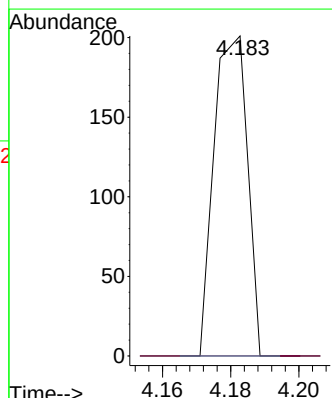
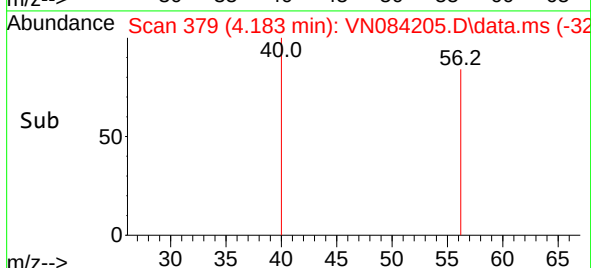
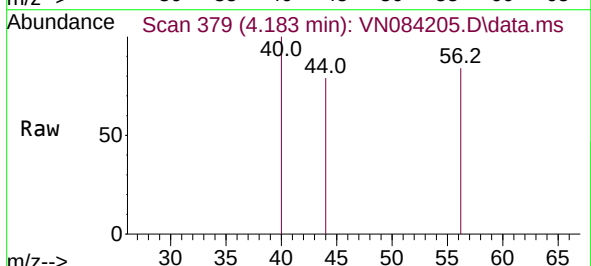


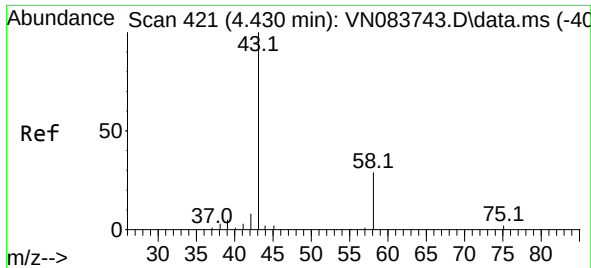
Tgt Ion: 59 Resp: 231
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.351 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.012 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

Tgt Ion: 56 Resp: 137
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.2#

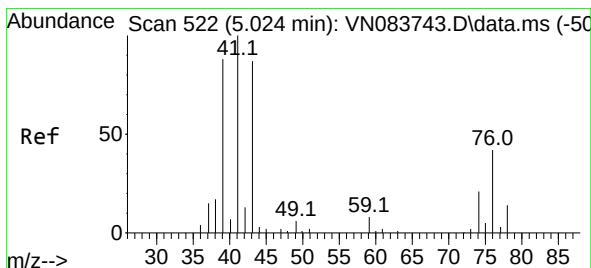
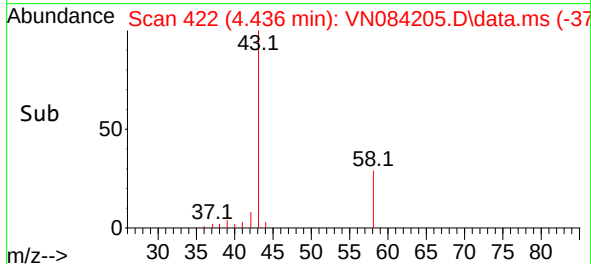
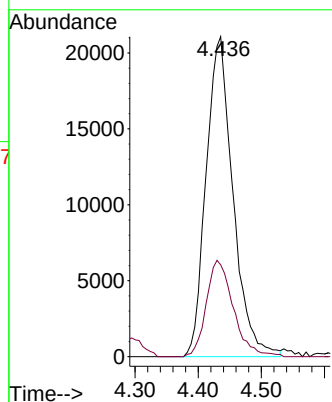
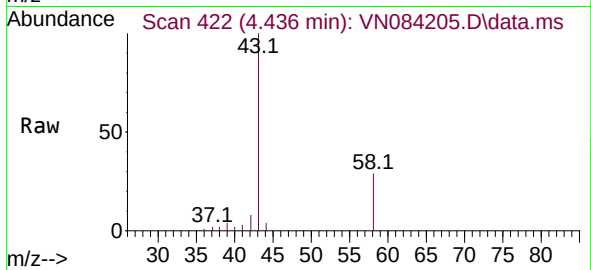




#16
Acetone
Concen: 52.627 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

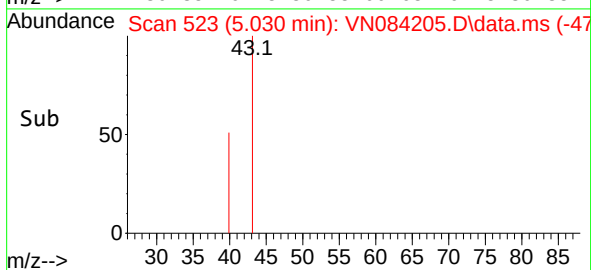
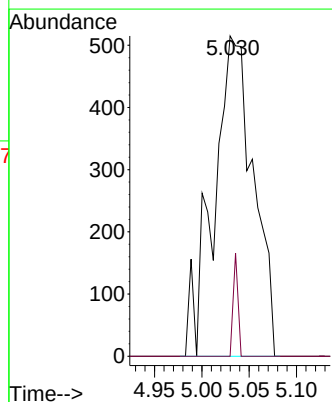
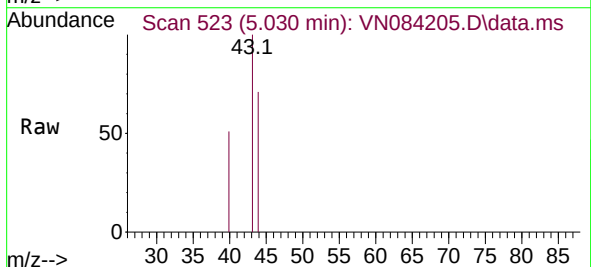
Instrument :
MSVOA_N
ClientSampleId :

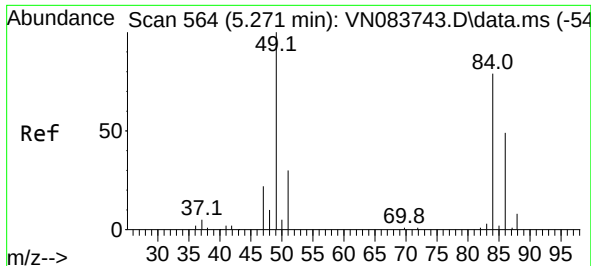
Tgt Ion: 43 Resp: 62341
Ion Ratio Lower Upper
43 100
58 28.7 23.7 35.5



#18
Methyl Acetate
Concen: Below Cal
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

Tgt Ion: 43 Resp: 1511
Ion Ratio Lower Upper
43 100
74 3.9 19.0 28.4#





#20

Methylene Chloride

Concen: 3.597 ug/l

RT: 5.283 min Scan# 5

Delta R.T. 0.012 min

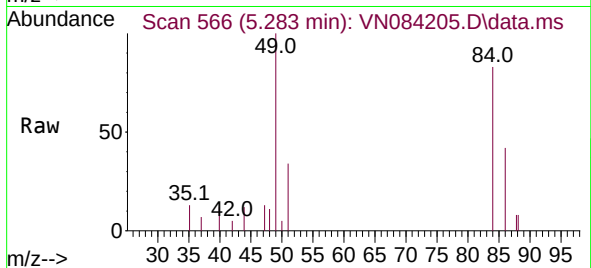
Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 8720

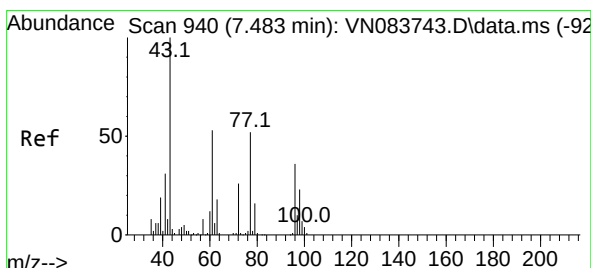
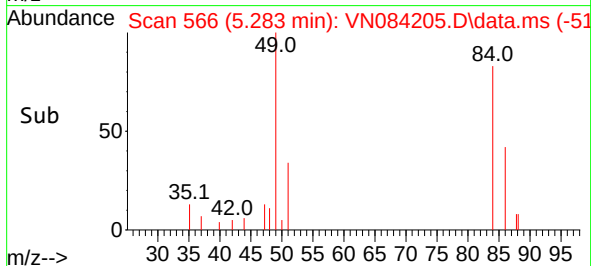
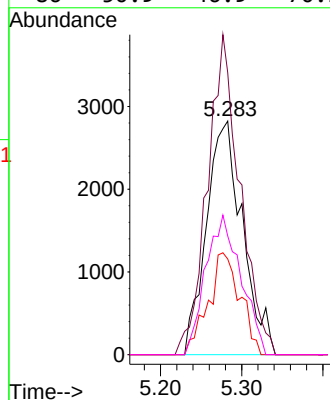
Ion Ratio Lower Upper

84 100

49 120.8 93.4 140.0

51 40.9 29.2 43.8

86 50.9 46.9 70.3



#25

2-Butanone

Concen: 5.957 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN084205.D

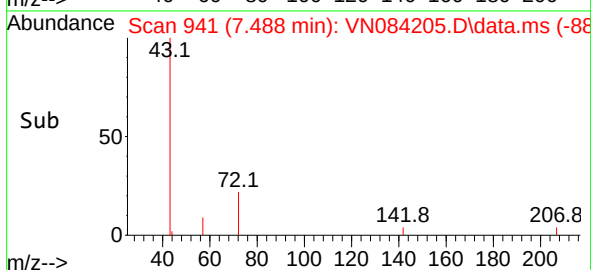
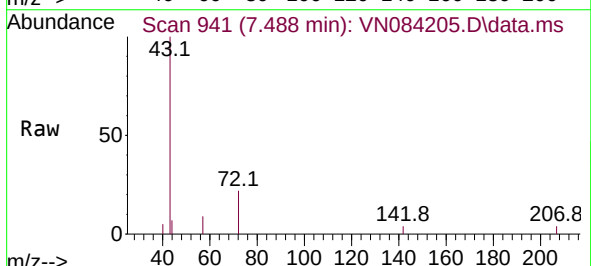
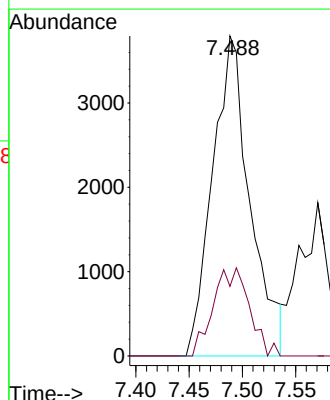
Acq: 27 Sep 2024 15:53

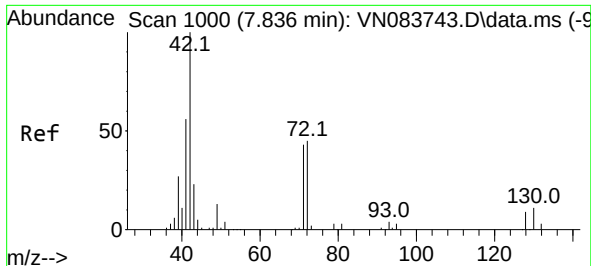
Tgt Ion: 43 Resp: 9275

Ion Ratio Lower Upper

43 100

72 21.8 20.8 31.2





#29

Tetrahydrofuran

Concen: 1.043 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

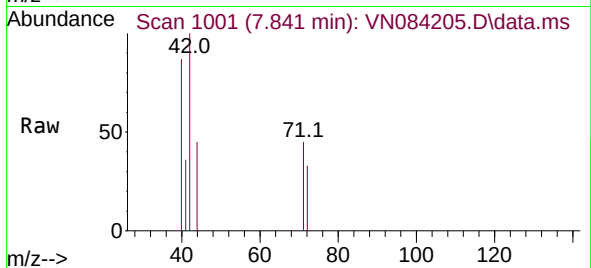
Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

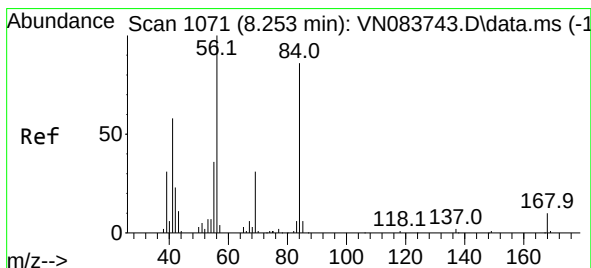
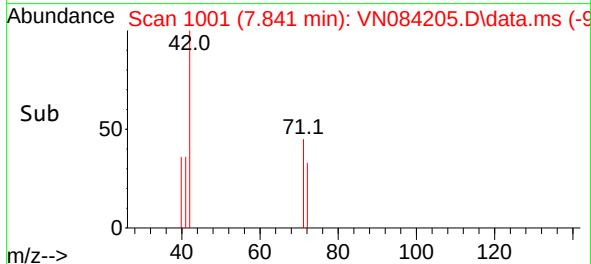
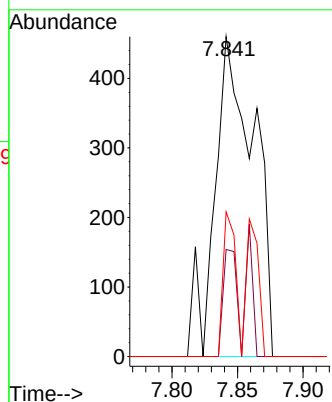
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	960
Ion	Ratio	Lower	Upper
42	100		
72	11.3	35.9	53.9#
71	14.1	33.9	50.9#



#31

Cyclohexane

Concen: 1.173 ug/l

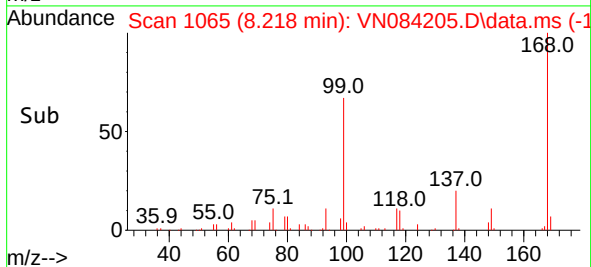
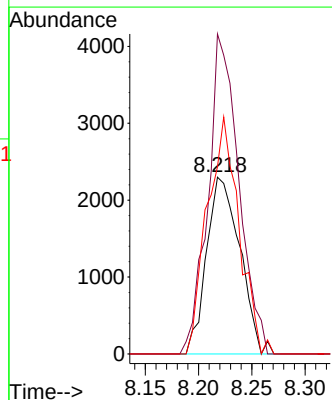
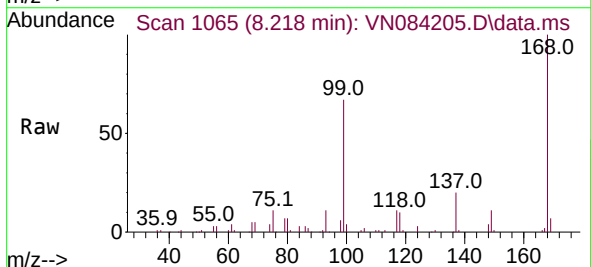
RT: 8.218 min Scan# 1065

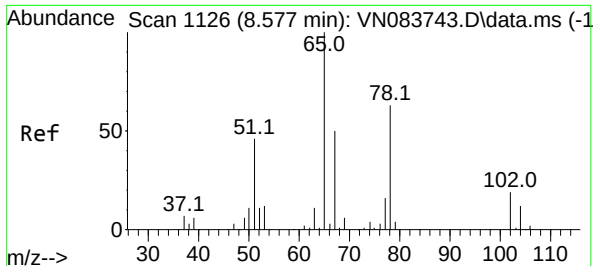
Delta R.T. -0.035 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

Tgt Ion:	56	Resp:	5009
Ion	Ratio	Lower	Upper
56	100		
69	181.0	26.9	40.3#
84	105.9	69.2	103.8#





#33

1,2-Dichloroethane-d4

Concen: 46.795 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

Instrument :

MSVOA_N

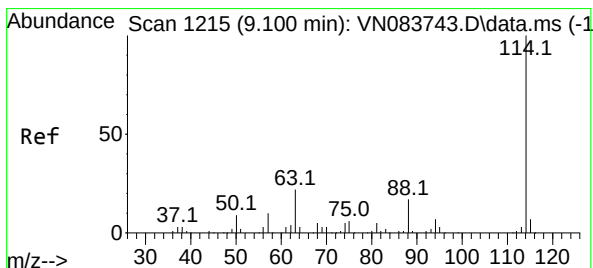
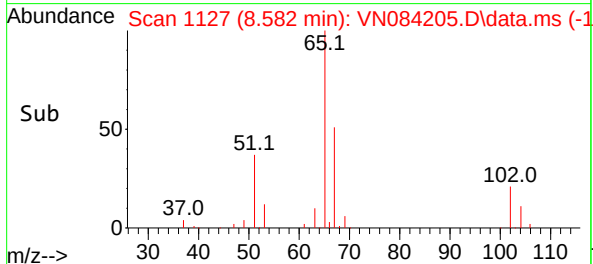
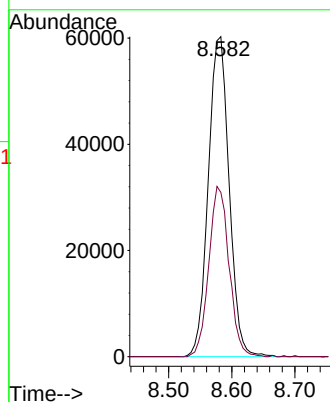
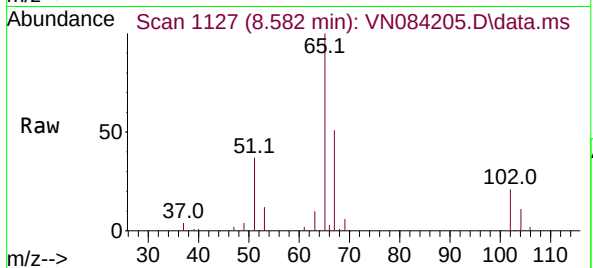
ClientSampleId :

Tgt Ion: 65 Resp: 138279

Ion Ratio Lower Upper

65 100

67 51.8 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

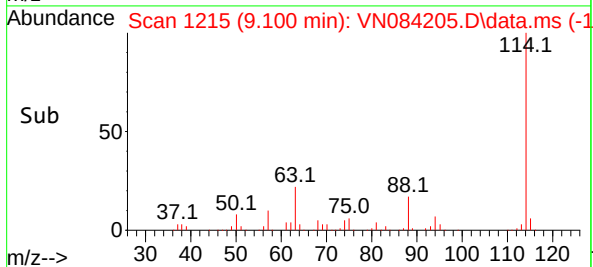
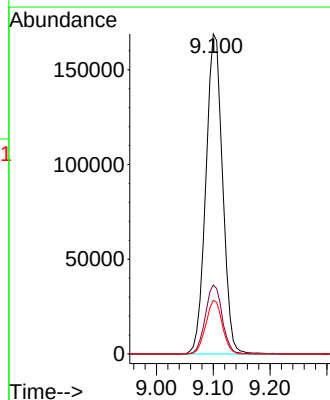
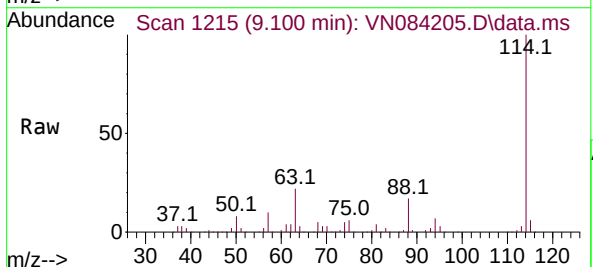
Tgt Ion: 114 Resp: 344003

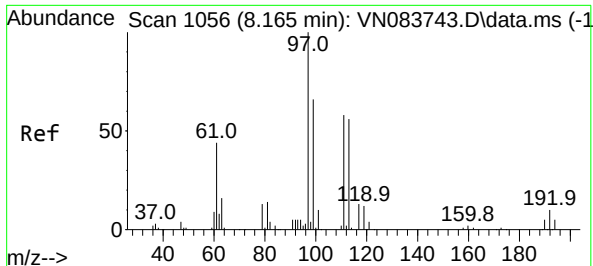
Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.4

88 16.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.478 ug/l

RT: 8.171 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

Instrument :

MSVOA_N

ClientSampleId :

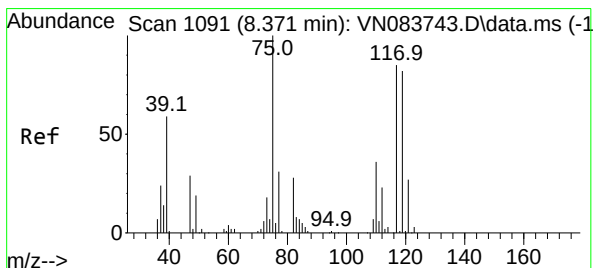
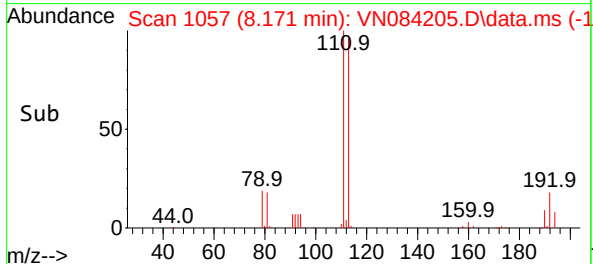
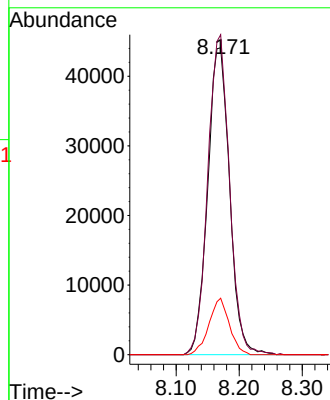
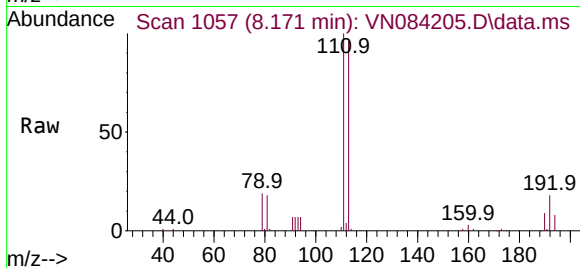
Tgt Ion:113 Resp: 106762

Ion Ratio Lower Upper

113 100

111 102.8 82.6 124.0

192 17.0 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.406 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

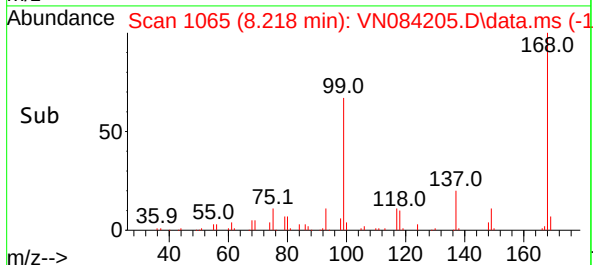
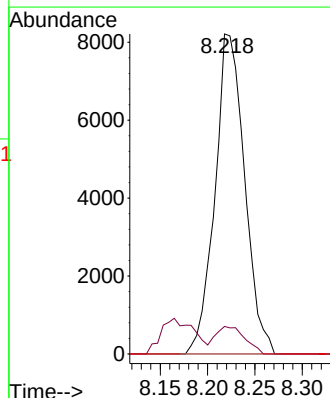
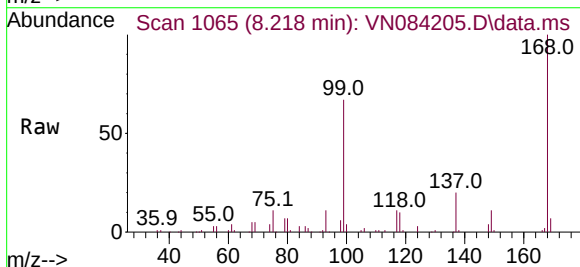
Tgt Ion: 75 Resp: 17918

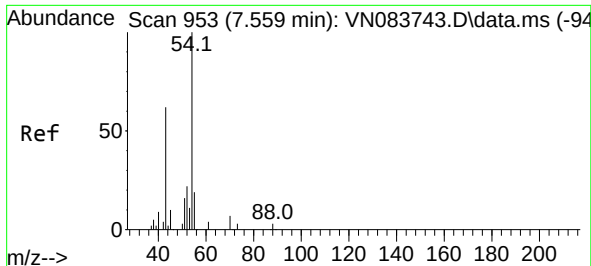
Ion Ratio Lower Upper

75 100

110 8.5 16.7 50.1#

77 0.0 25.2 37.8#





#37

Ethyl Acetate

Concen: 1.130 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.012 min

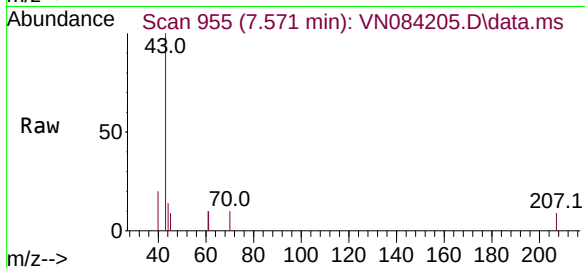
Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

Instrument :

MSVOA_N

ClientSampleId :



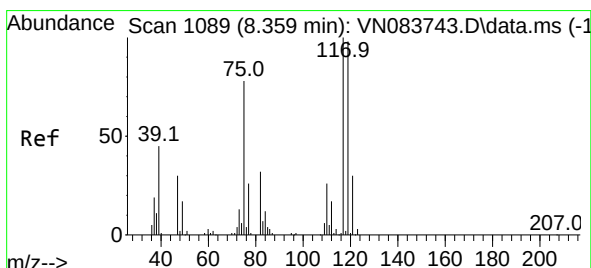
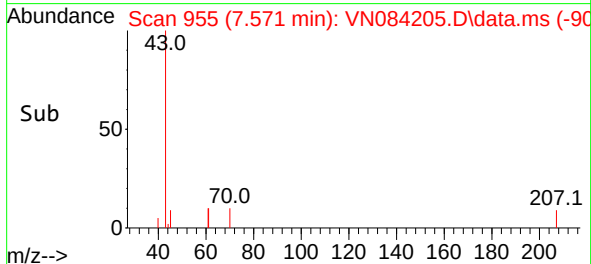
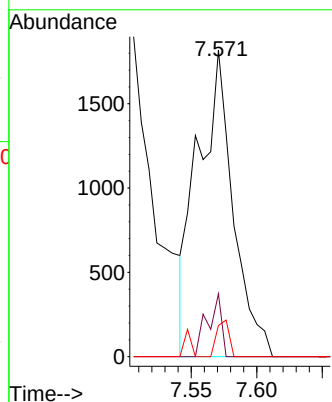
Tgt Ion: 43 Resp: 3399

Ion Ratio Lower Upper

43 100

61 8.1 11.1 16.7#

70 4.2 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.752 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

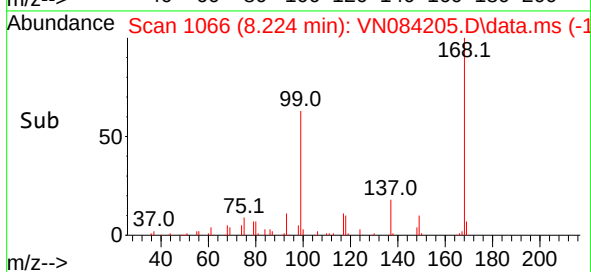
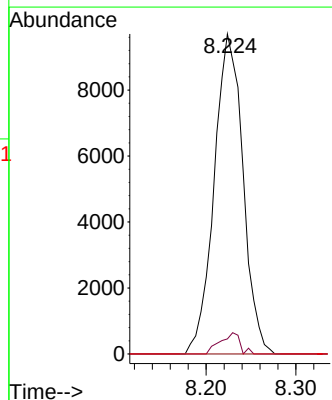
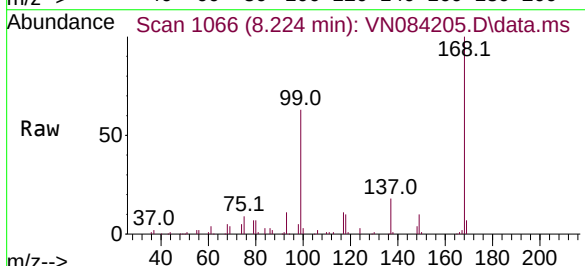
Tgt Ion: 117 Resp: 21632

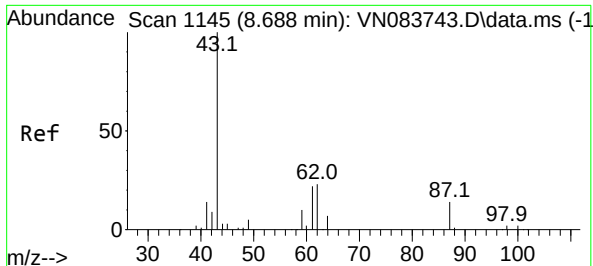
Ion Ratio Lower Upper

117 100

119 4.7 76.1 114.1#

121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 44.202 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

Instrument :

MSVOA_N

ClientSampleId :

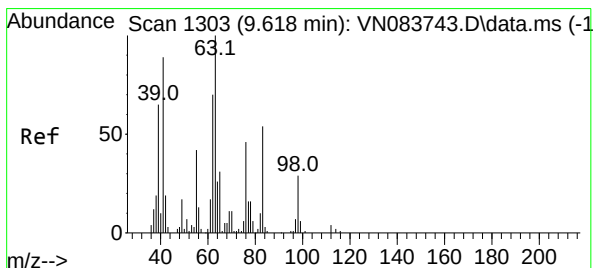
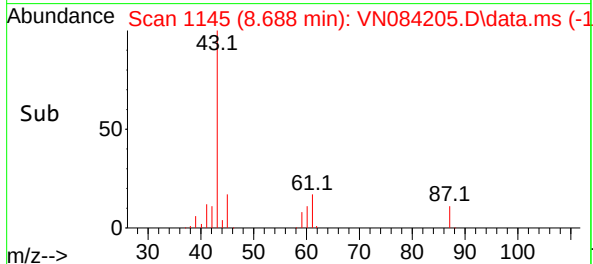
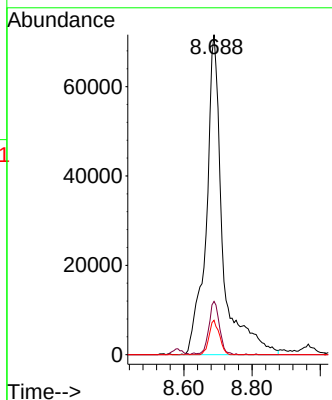
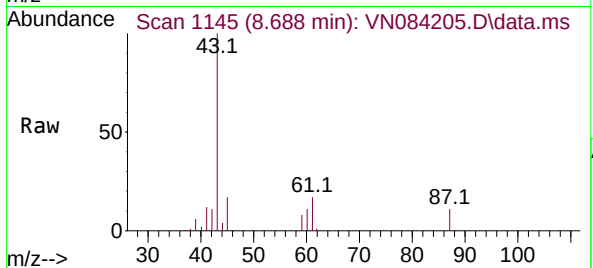
Tgt Ion: 43 Resp: 241003

Ion Ratio Lower Upper

43 100

61 10.7 19.4 29.0#

87 6.7 9.8 14.6#



#45

1,2-Dichloropropane

Concen: 0.611 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN084205.D

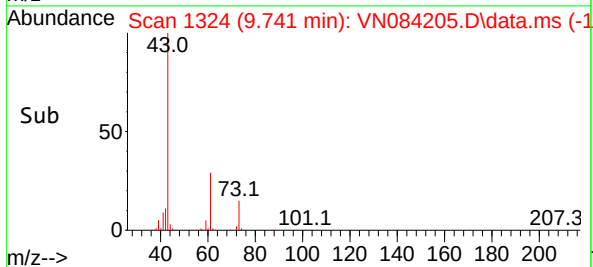
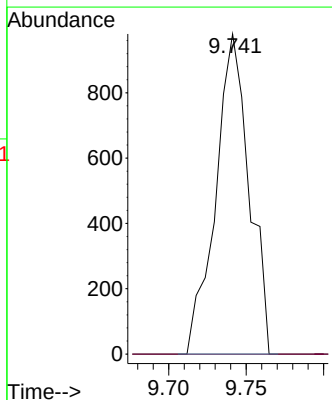
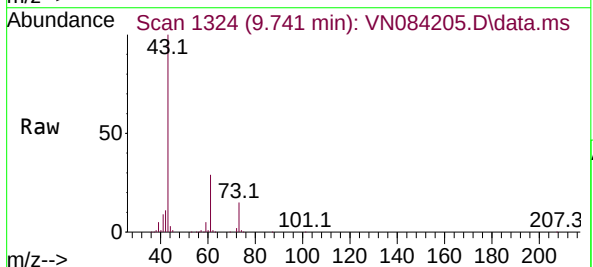
Acq: 27 Sep 2024 15:53

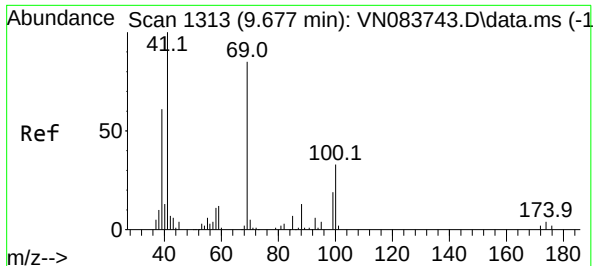
Tgt Ion: 63 Resp: 1474

Ion Ratio Lower Upper

63 100

65 0.0 25.9 38.9#

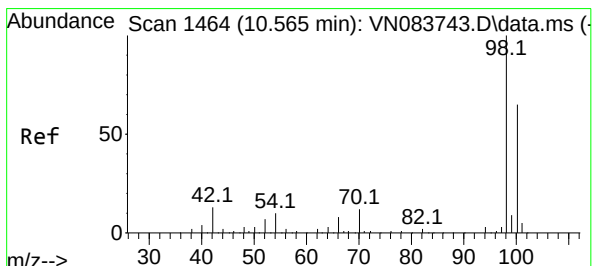
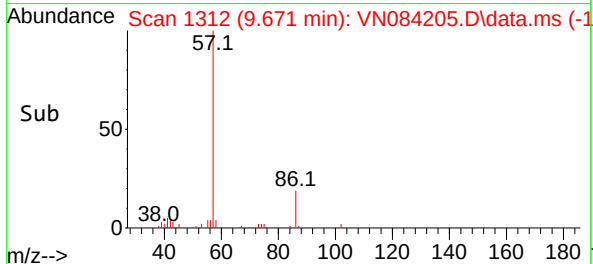
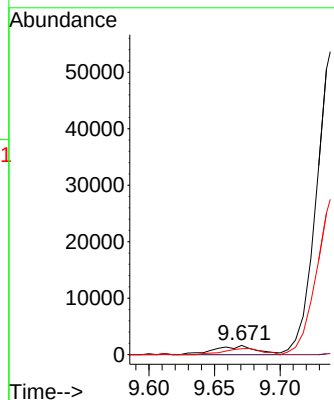
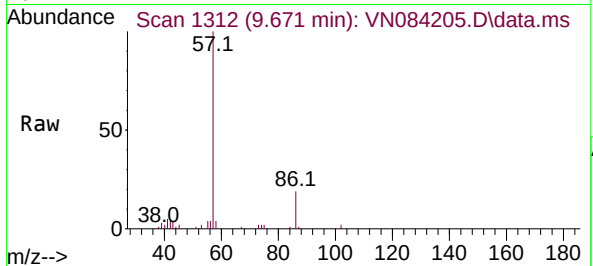




#48
Methyl methacrylate
Concen: 1.379 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

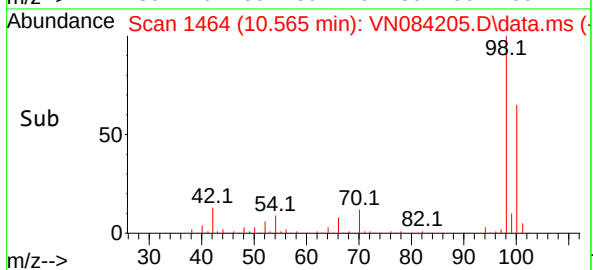
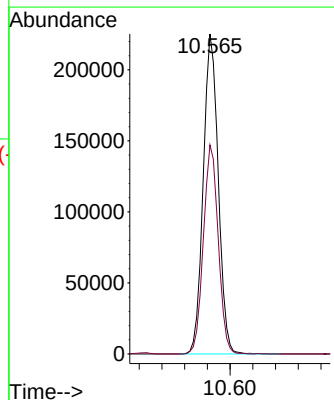
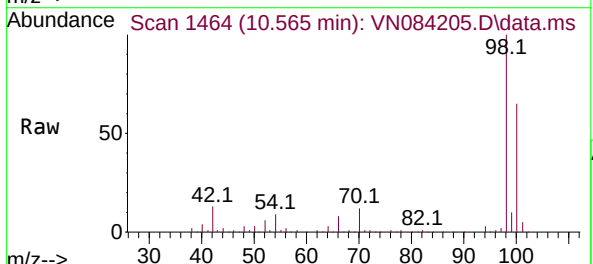
Instrument :
MSVOA_N
ClientSampleId :

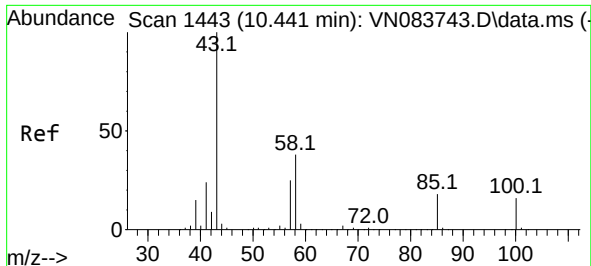
Tgt Ion: 41 Resp: 3568
Ion Ratio Lower Upper
41 100
69 0.0 64.3 96.5#
39 60.7 48.9 73.3



#50
Toluene-d8
Concen: 54.099 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

Tgt Ion: 98 Resp: 411878
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0

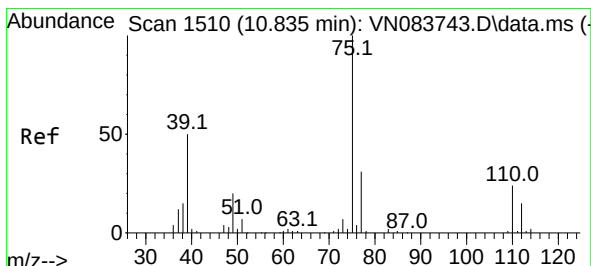
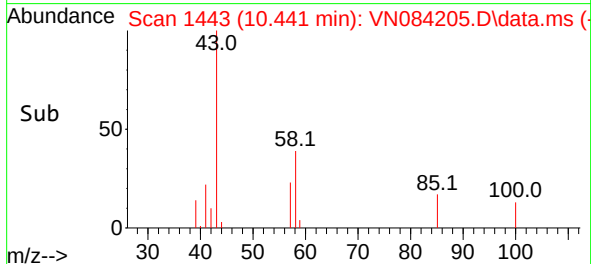
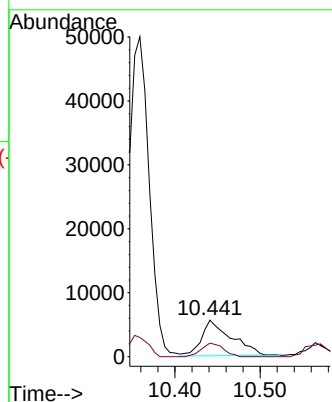
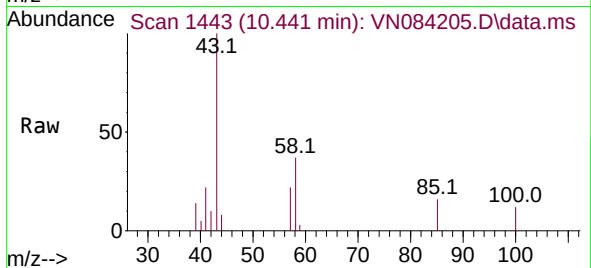




#51
4-Methyl-2-Pentanone
Concen: 4.588 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

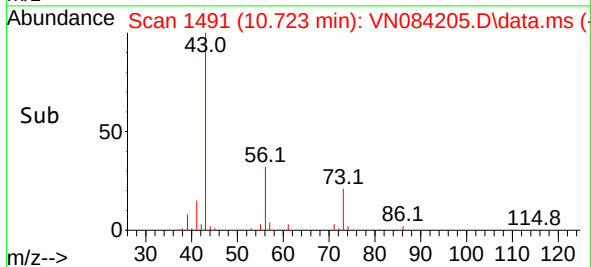
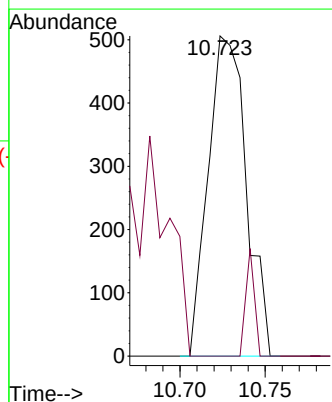
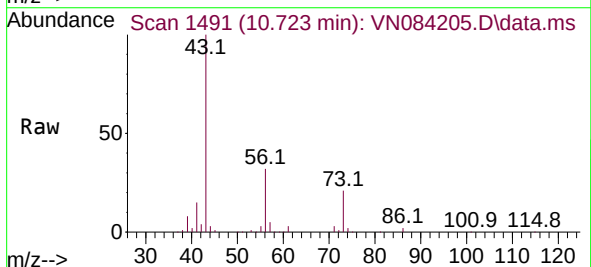
Instrument :
MSVOA_N
ClientSampleId :

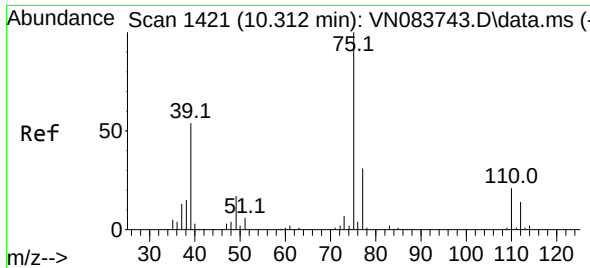
Tgt Ion: 43 Resp: 13618
Ion Ratio Lower Upper
43 100
58 27.9 31.6 47.4#



#53
t-1,3-Dichloropropene
Concen: 0.213 ug/l
RT: 10.723 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

Tgt Ion: 75 Resp: 789
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#

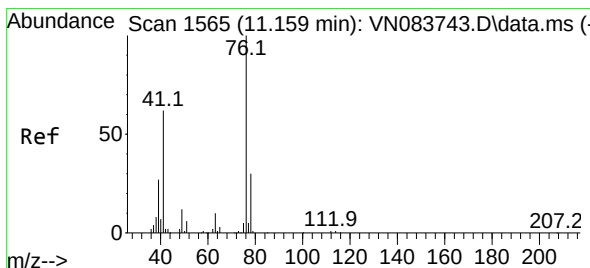
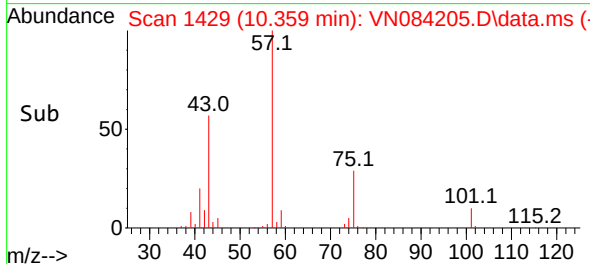
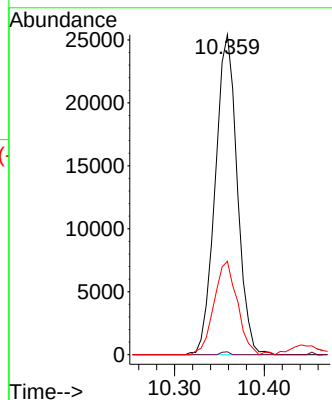
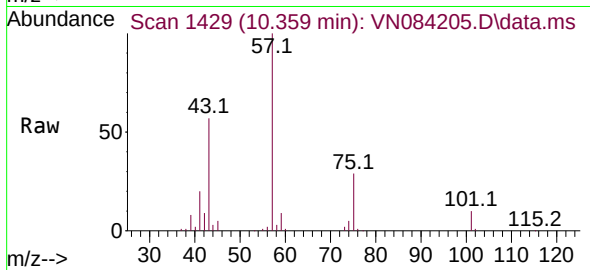




#54
 cis-1,3-Dichloropropene
 Concen: 11.112 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084205.D
 Acq: 27 Sep 2024 15:53

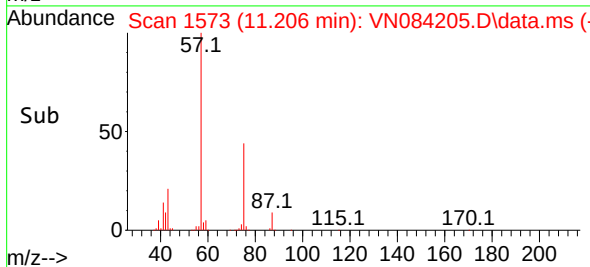
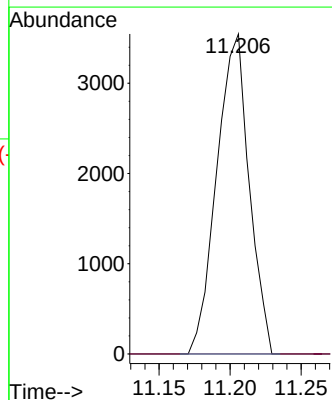
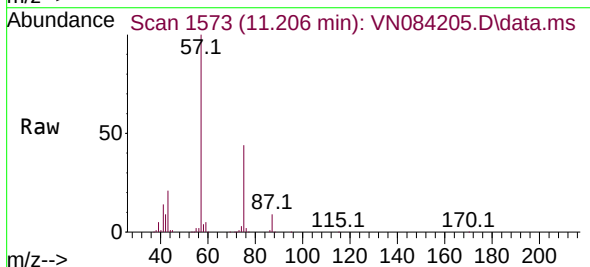
Instrument :
 MSVOA_N
 ClientSampleId :

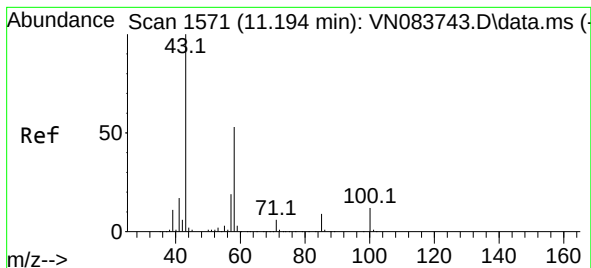
Tgt Ion: 75 Resp: 43249
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.0 37.6#
 39 29.2 42.6 64.0#



#57
 1,3-Dichloropropane
 Concen: 1.437 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.047 min
 Lab File: VN084205.D
 Acq: 27 Sep 2024 15:53

Tgt Ion: 76 Resp: 5627
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#

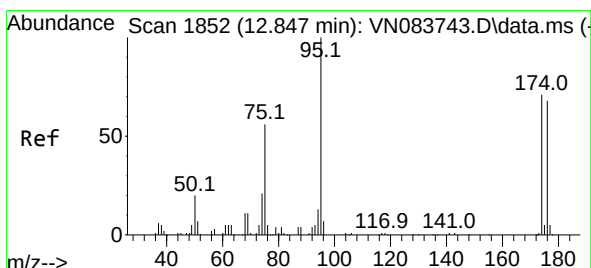
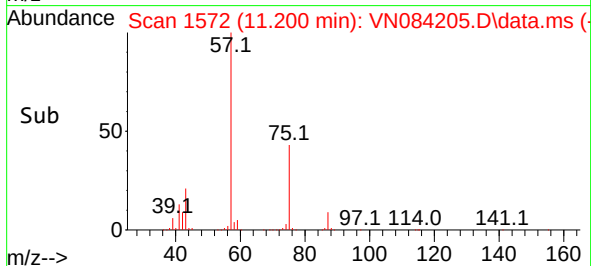
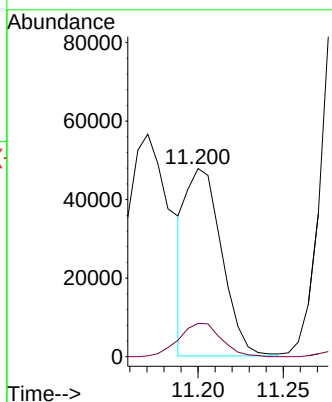
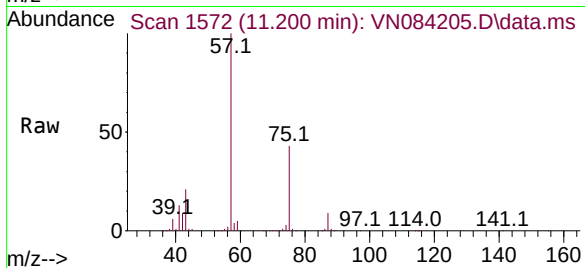




#59
2-Hexanone
Concen: 31.719 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

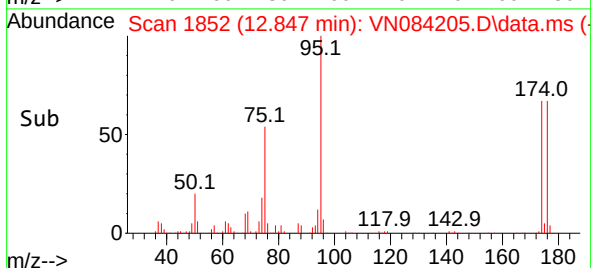
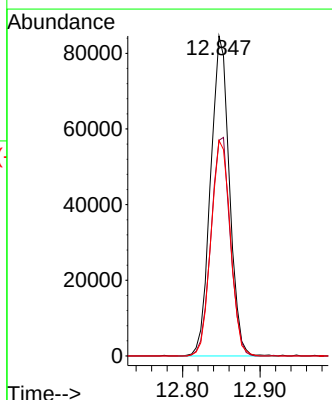
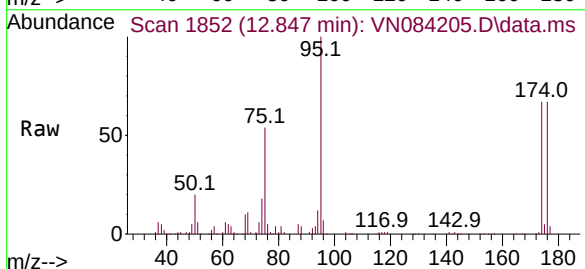
Instrument :
MSVOA_N
ClientSampleId :

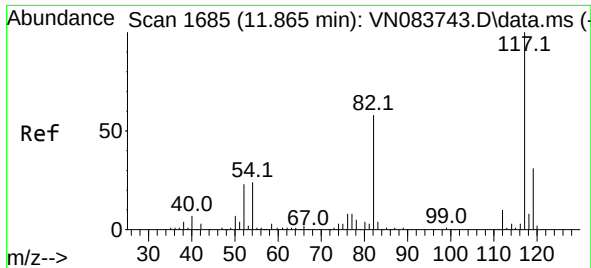
Tgt Ion: 43 Resp: 69638
Ion Ratio Lower Upper
43 100
58 21.1 27.2 81.5#



#62
4-Bromofluorobenzene
Concen: 45.344 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

Tgt Ion: 95 Resp: 142430
Ion Ratio Lower Upper
95 100
174 70.1 0.0 139.8
176 69.3 0.0 131.4

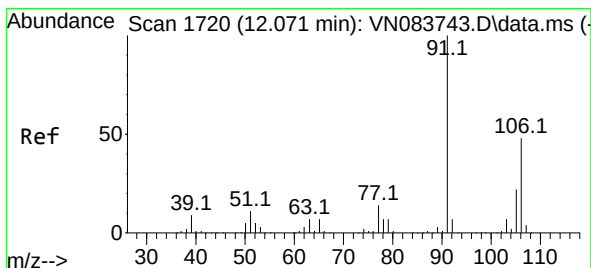
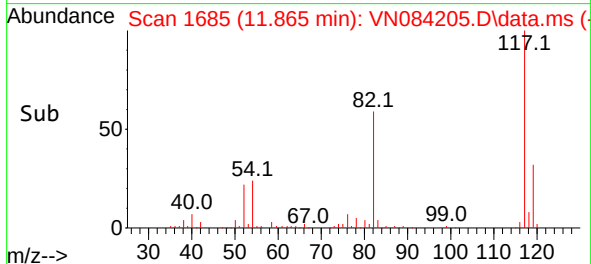
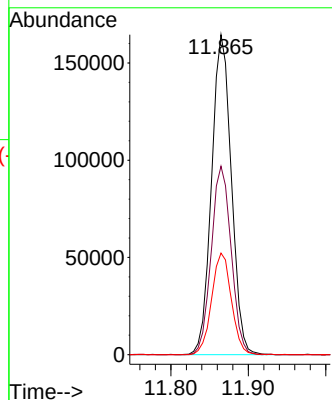
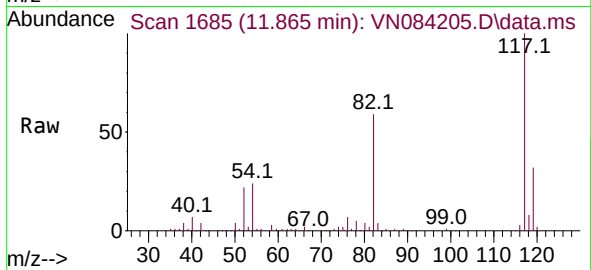




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11719
Delta R.T. -0.000 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

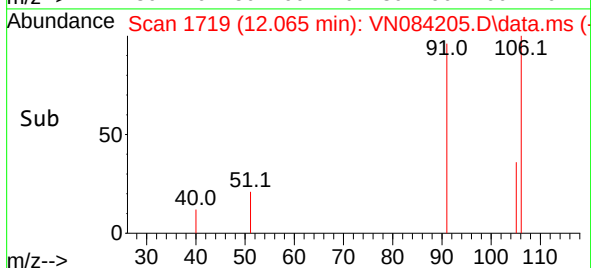
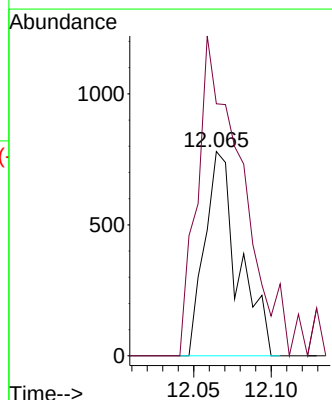
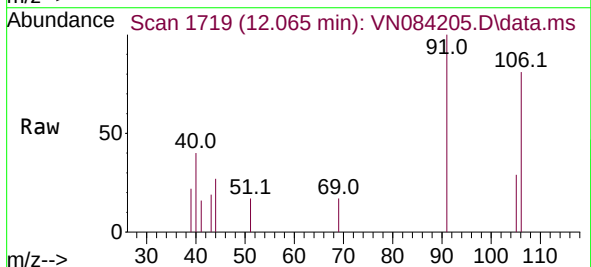
Instrument :
MSVOA_N
ClientSampleId :

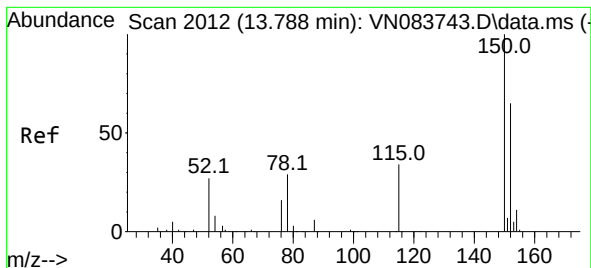
Tgt Ion:117 Resp: 292277
Ion Ratio Lower Upper
117 100
82 58.9 47.4 71.0
119 31.7 26.3 39.5



#68
m/p-Xylenes
Concen: 0.274 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

Tgt Ion:106 Resp: 1173
Ion Ratio Lower Upper
106 100
91 210.5 169.2 253.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

Instrument :

MSVOA_N

ClientSampleId :

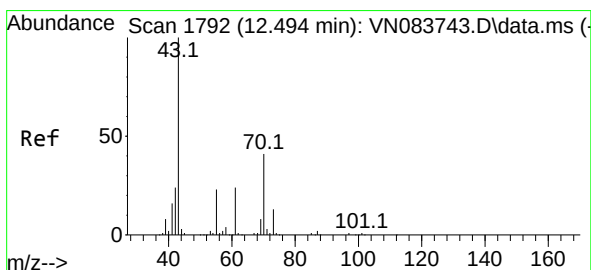
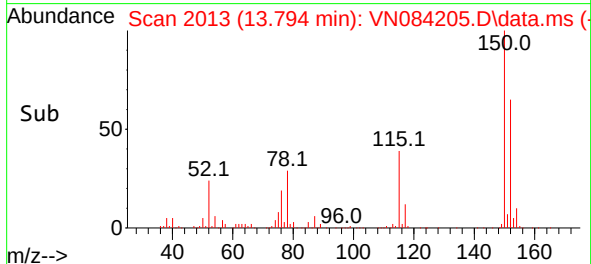
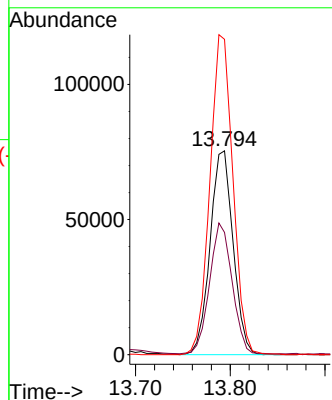
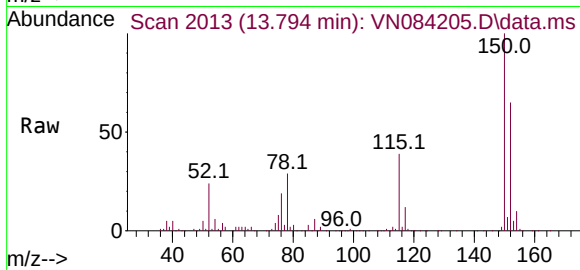
Tgt Ion:152 Resp: 127305

Ion Ratio Lower Upper

152 100

115 62.6 32.2 96.6

150 156.7 0.0 348.6



#74

N-ethyl acetate

Concen: 0.214 ug/l

RT: 12.470 min Scan# 1788

Delta R.T. -0.024 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

Tgt Ion: 43 Resp: 900

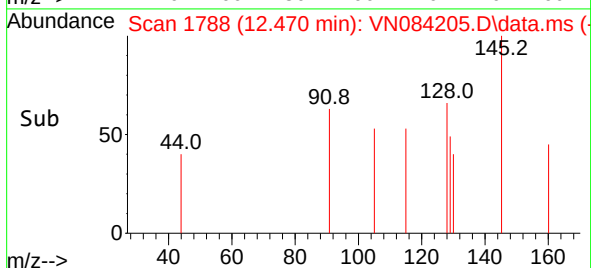
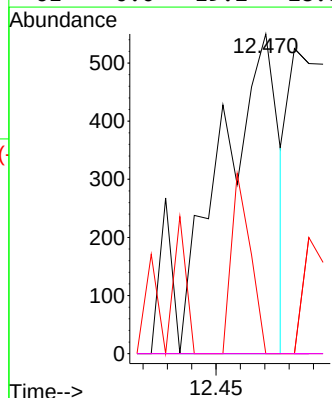
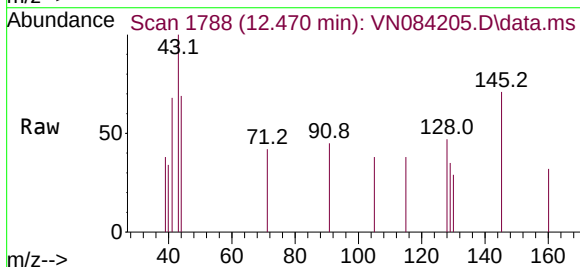
Ion Ratio Lower Upper

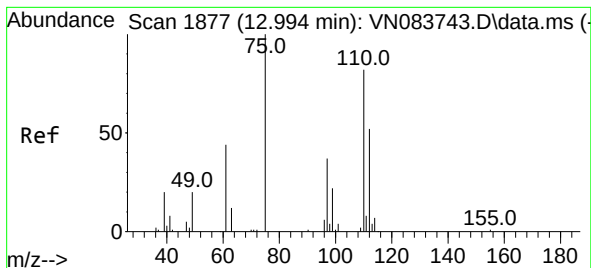
43 100

70 0.0 34.5 51.7#

55 18.8 18.6 28.0

61 0.0 19.2 28.8#





#76

1,2,3-Trichloropropane

Concen: 30.041 ug/l

RT: 12.847 min Scan# 11

Delta R.T. -0.147 min

Lab File: VN084205.D

Acq: 27 Sep 2024 15:53

Instrument :

MSVOA_N

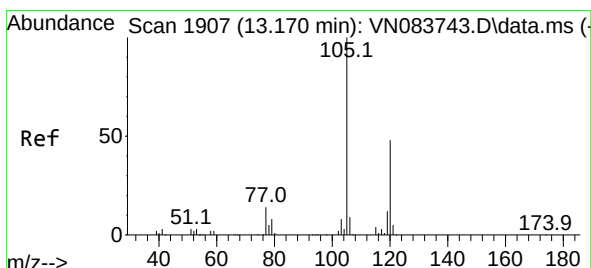
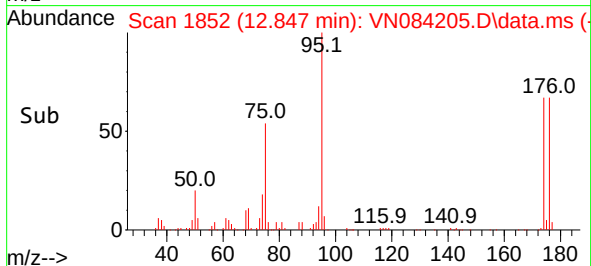
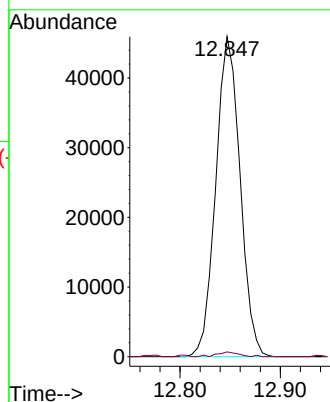
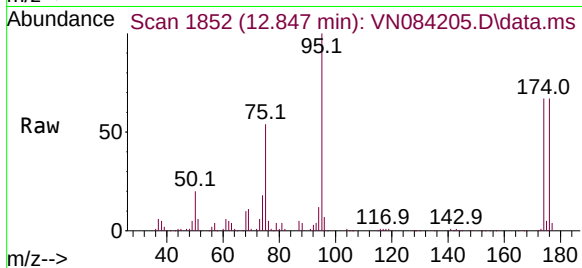
ClientSampleId :

Tgt Ion: 75 Resp: 77169

Ion Ratio Lower Upper

75 100

77 1.3 95.2 285.6#



#80

1,3,5-Trimethylbenzene

Concen: 0.217 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084205.D

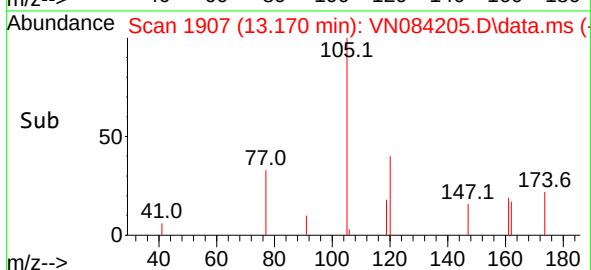
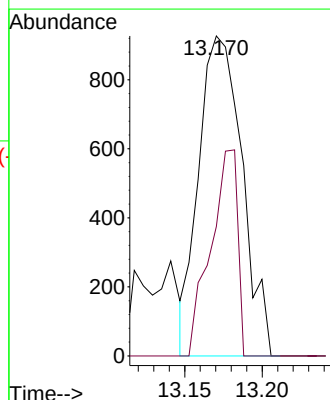
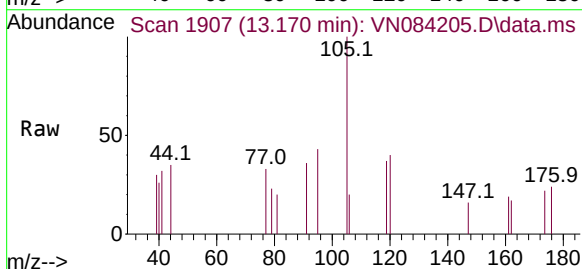
Acq: 27 Sep 2024 15:53

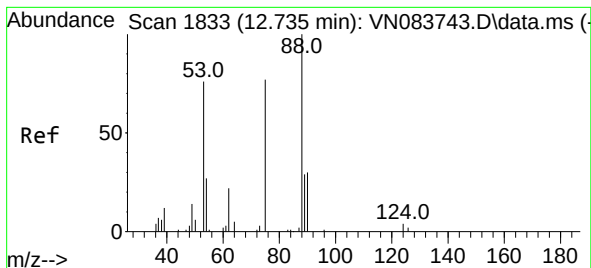
Tgt Ion:105 Resp: 1806

Ion Ratio Lower Upper

105 100

120 39.9 23.4 70.3

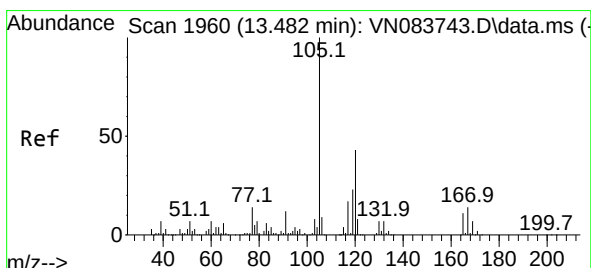
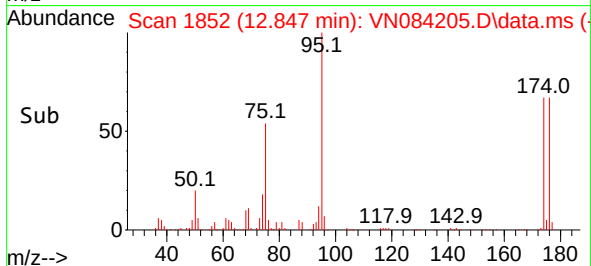
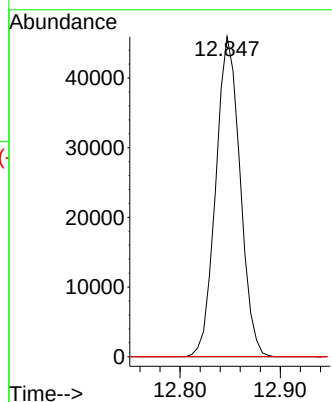
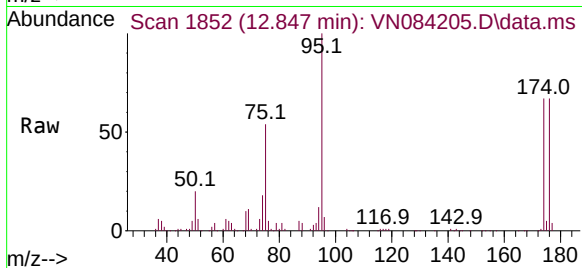




#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.680 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN084205.D
 Acq: 27 Sep 2024 15:53

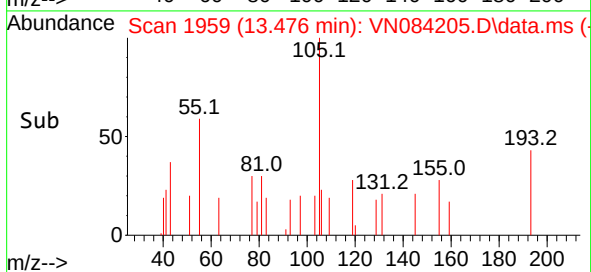
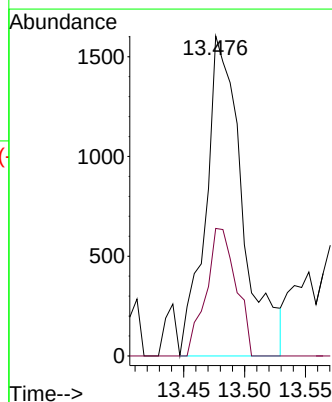
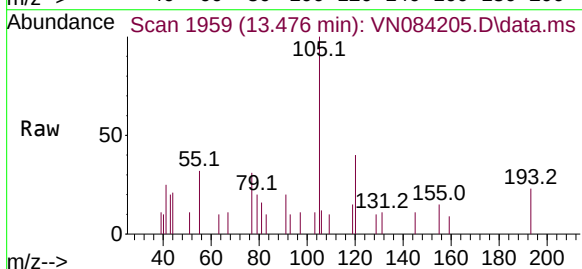
Instrument :
 MSVOA_N
 ClientSampleId :

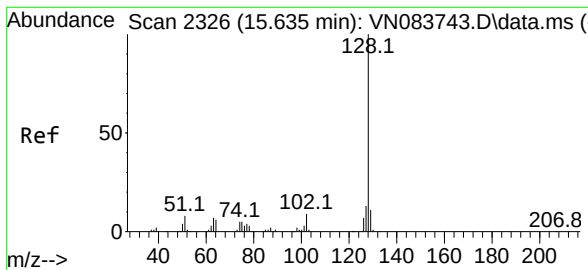
Tgt Ion: 75 Resp: 77169
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.2 121.8#
 89 0.0 35.7 53.5#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.402 ug/l
 RT: 13.476 min Scan# 1959
 Delta R.T. -0.006 min
 Lab File: VN084205.D
 Acq: 27 Sep 2024 15:53

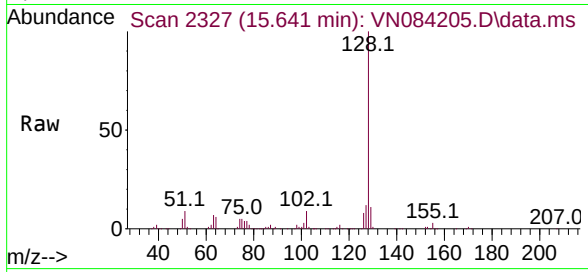
Tgt Ion:105 Resp: 3357
 Ion Ratio Lower Upper
 105 100
 120 32.6 21.8 65.4





#95
Naphthalene
Concen: 40.566 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN084205.D
Acq: 27 Sep 2024 15:53

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	11.7	8.7	13.1

