

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121625\
 Data File : VN088525.D
 Acq On : 16 Dec 2025 14:05
 Operator : JC\MD
 Sample : Q3852-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TK 7&8 20"

Quant Time: Dec 17 01:41:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

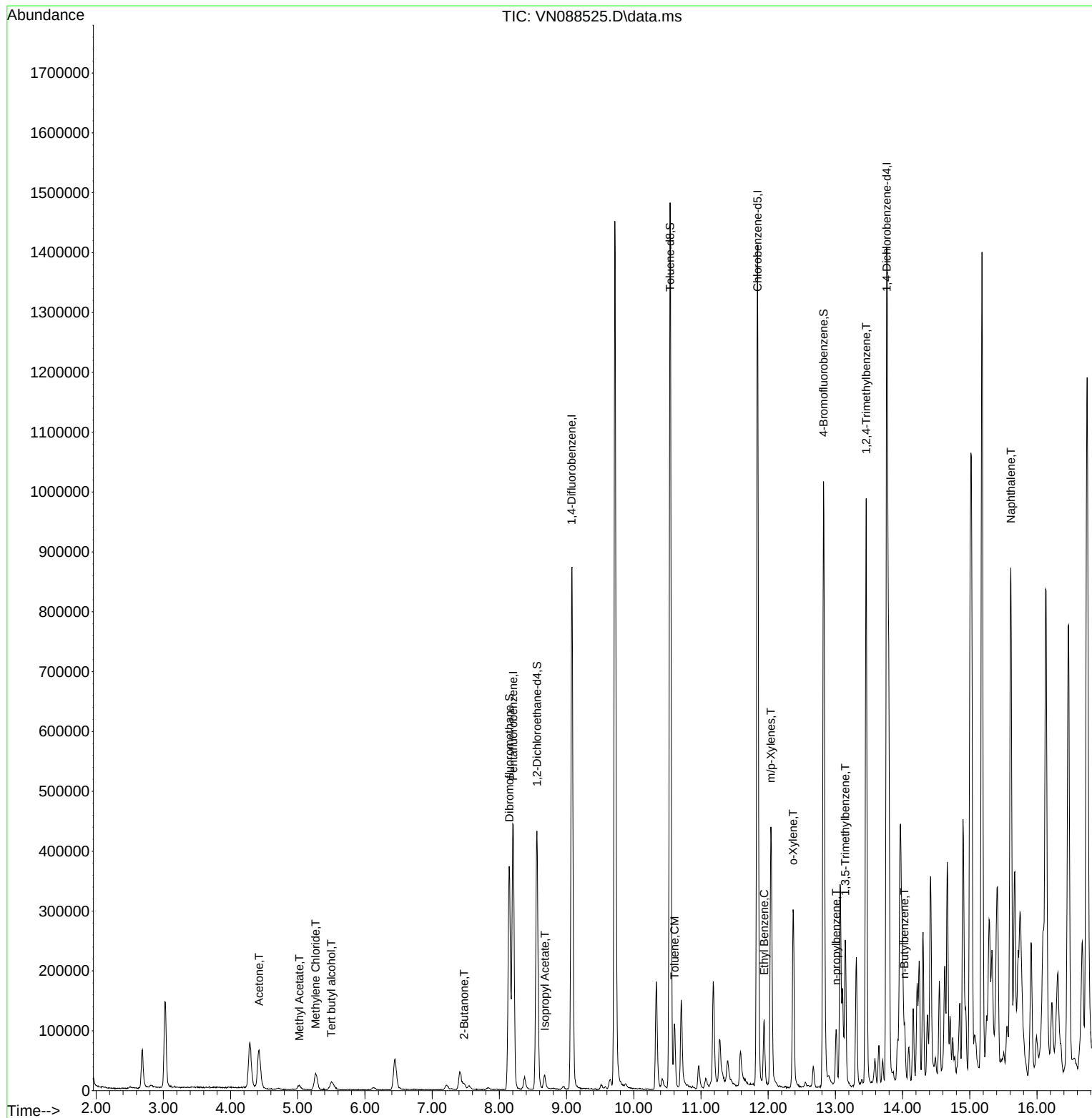
Internal Standards						
1) Pentafluorobenzene	8.206	168	301245	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	721432	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	773723	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	375701	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	369649	65.138	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 130.280%#			
35) Dibromofluoromethane	8.147	113	272532	54.512	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.020%			
50) Toluene-d8	10.541	98	984963	52.949	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.900%			
62) 4-Bromofluorobenzene	12.823	95	380201	59.568	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 119.140%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.500	59	23691	26.148	ug/l	100
16) Acetone	4.424	43	134382	65.478	ug/l	93
18) Methyl Acetate	5.024	43	16928	2.771	ug/l	100
20) Methylene Chloride	5.265	84	21260	4.842	ug/l	94
25) 2-Butanone	7.477	43	17739m	5.377	ug/l	
43) Isopropyl Acetate	8.677	43	28165	1.817	ug/l	93
52) Toluene	10.606	92	46530	3.558	ug/l	96
67) Ethyl Benzene	11.941	91	76927	2.533	ug/l	100
68) m/p-Xylenes	12.041	106	137681	12.225	ug/l	99
69) o-Xylene	12.370	106	85286	7.943	ug/l	95
78) n-propylbenzene	13.012	91	73430	2.161	ug/l	97
80) 1,3,5-Trimethylbenzene	13.147	105	129532	5.627	ug/l	96
84) 1,2,4-Trimethylbenzene	13.459	105	548167	23.959	ug/l	99
89) n-Butylbenzene	14.029	91	41226m	1.842	ug/l	
95) Naphthalene	15.611	128	809178	33.755	ug/l	99

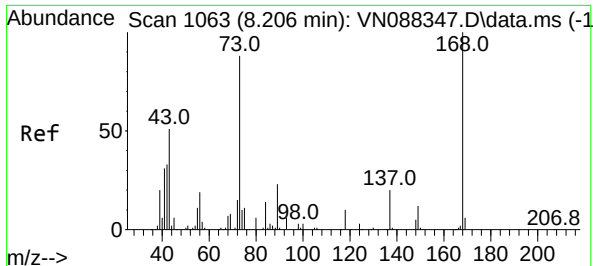
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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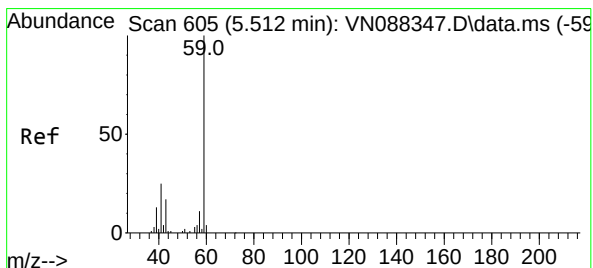
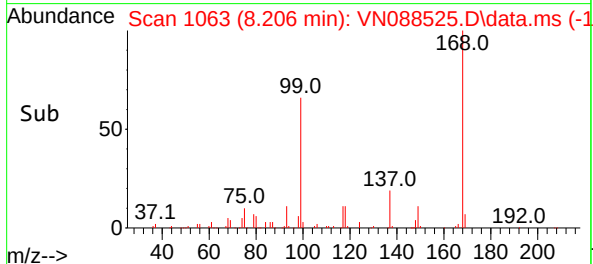
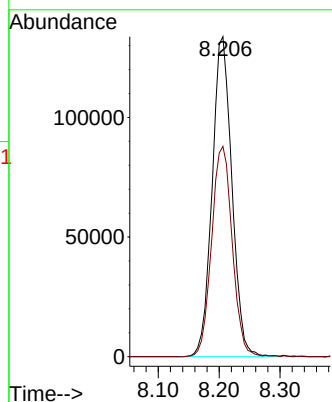
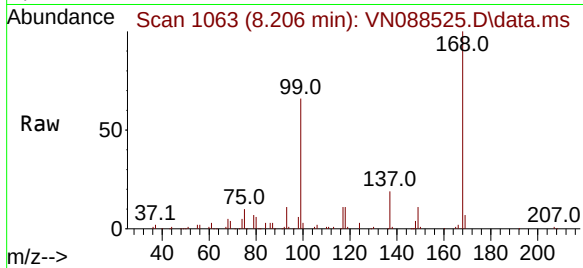




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

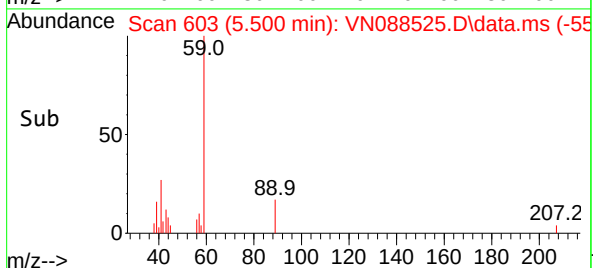
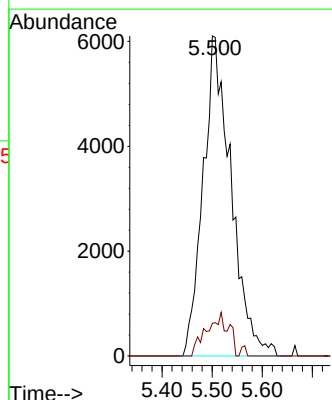
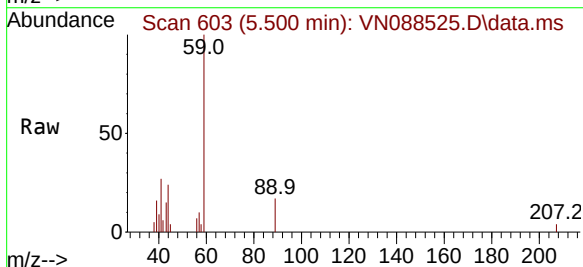
Instrument :
MSVOA_N
ClientSampleId :
TK 7&8 20"

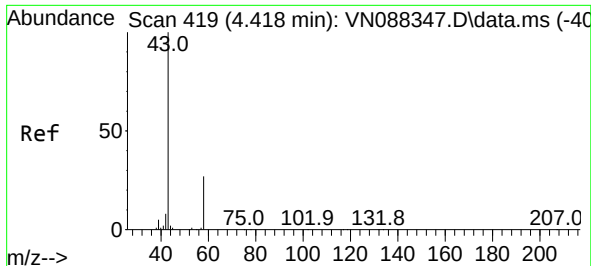
Tgt Ion:168 Resp: 301245
Ion Ratio Lower Upper
168 100
99 65.7 57.1 85.7



#11
Tert butyl alcohol
Concen: 26.148 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.012 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

Tgt Ion: 59 Resp: 23691
Ion Ratio Lower Upper
59 100
57 10.5 8.5 12.7

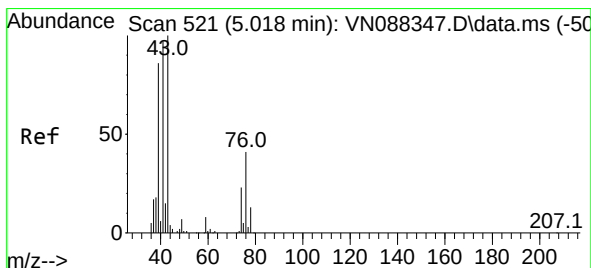
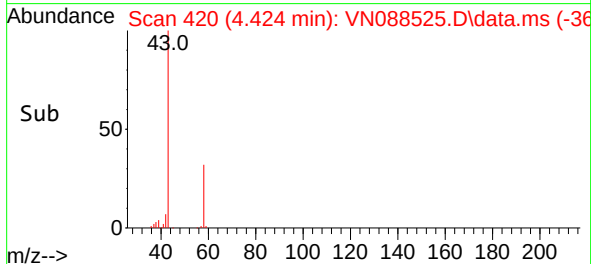
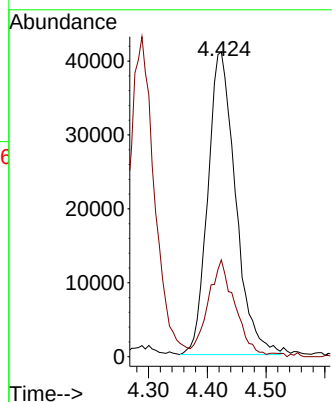
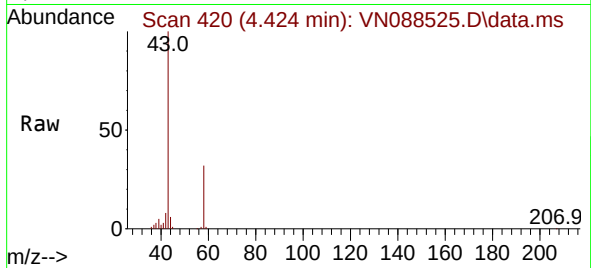




#16
Acetone
Concen: 65.478 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

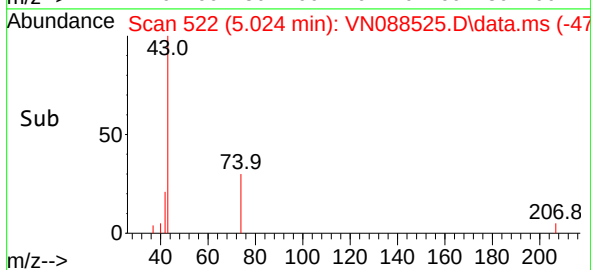
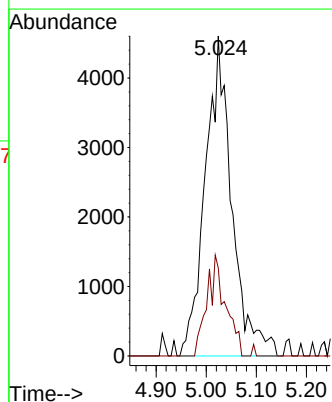
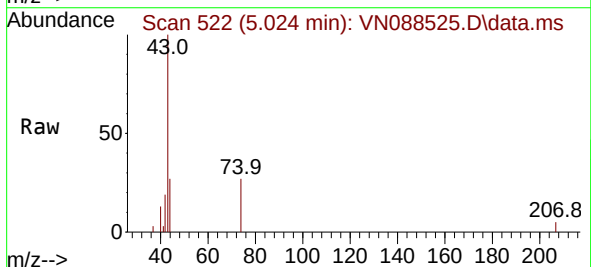
Instrument :
MSVOA_N
ClientSampleId :
TK 7&8 20"

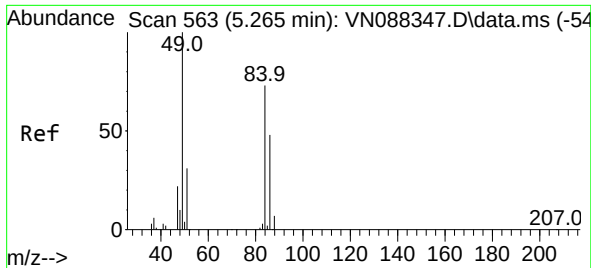
Tgt Ion: 43 Resp: 134382
Ion Ratio Lower Upper
43 100
58 30.9 21.7 32.5



#18
Methyl Acetate
Concen: 2.771 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

Tgt Ion: 43 Resp: 16928
Ion Ratio Lower Upper
43 100
74 22.2 17.9 26.9

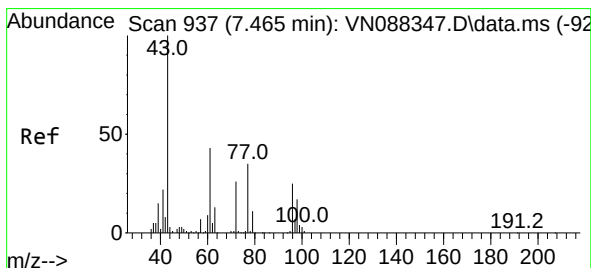
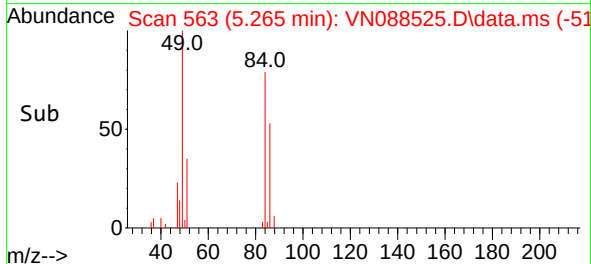
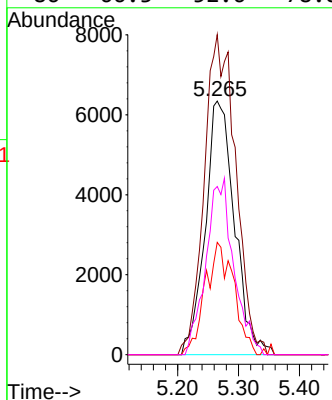
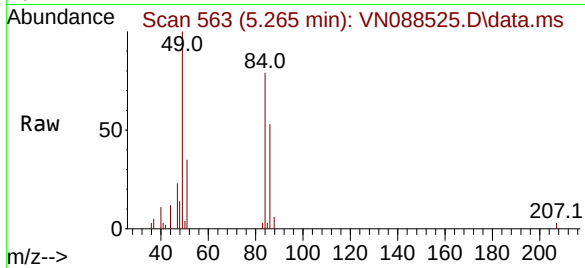




#20
Methylene Chloride
Concen: 4.842 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

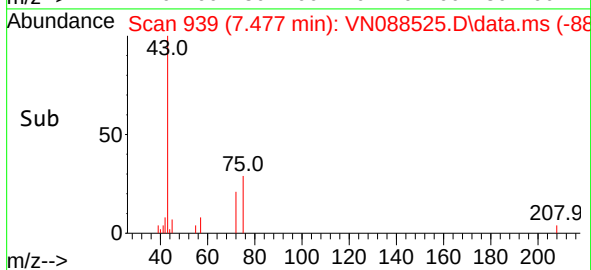
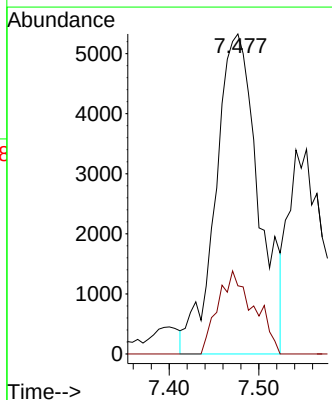
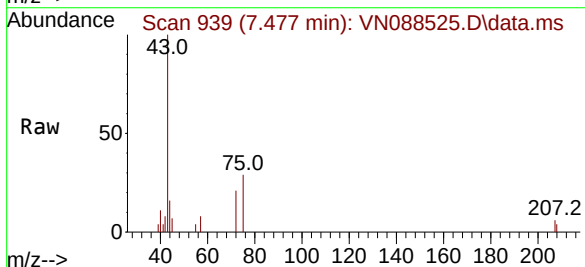
Instrument :
MSVOA_N
ClientSampleId :
TK 7&8 20"

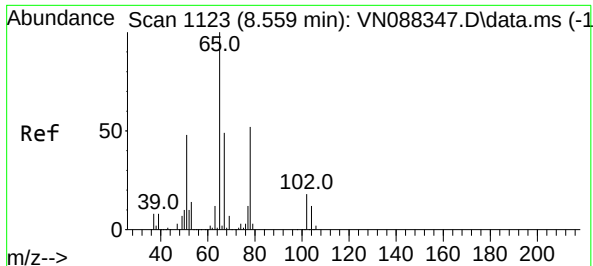
Tgt Ion:	84	Resp:	21260
Ion	Ratio	Lower	Upper
84	100		
49	126.2	110.2	165.2
51	44.3	34.1	51.1
86	66.3	52.6	78.8



#25
2-Butanone
Concen: 5.377 ug/l m
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

Tgt Ion:	43	Resp:	17739
Ion	Ratio	Lower	Upper
43	100		
72	21.3	20.5	30.7





#33

1,2-Dichloroethane-d4

Concen: 65.138 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088525.D

Acq: 16 Dec 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

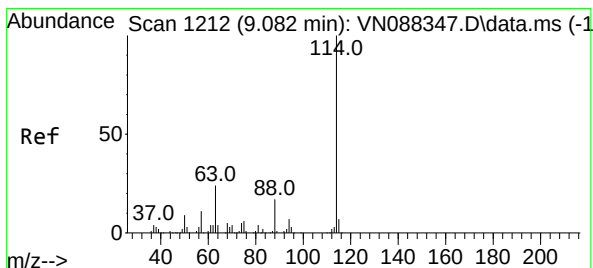
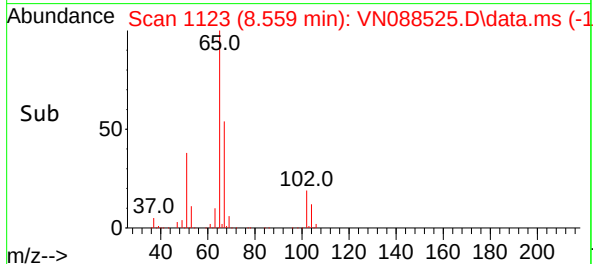
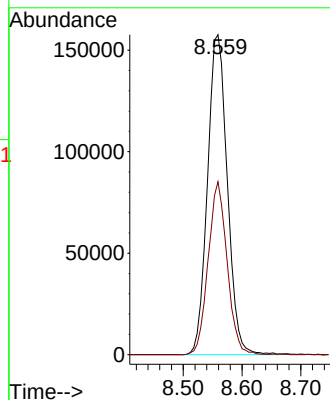
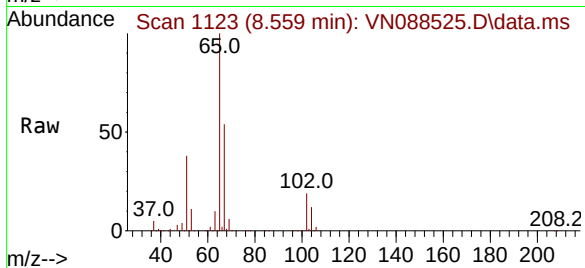
TK 7&8 20"

Tgt Ion: 65 Resp: 369649

Ion Ratio Lower Upper

65 100

67 51.6 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN088525.D

Acq: 16 Dec 2025 14:05

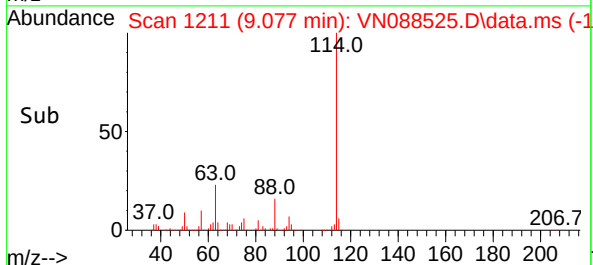
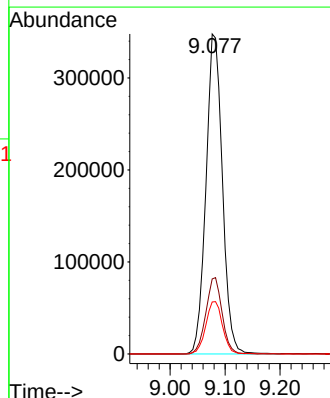
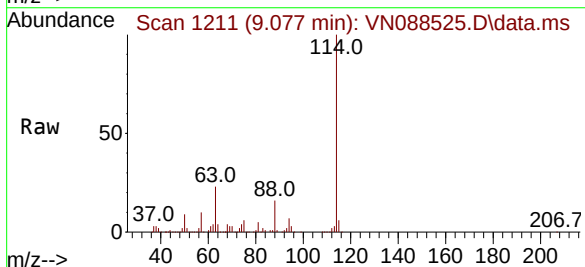
Tgt Ion: 114 Resp: 721432

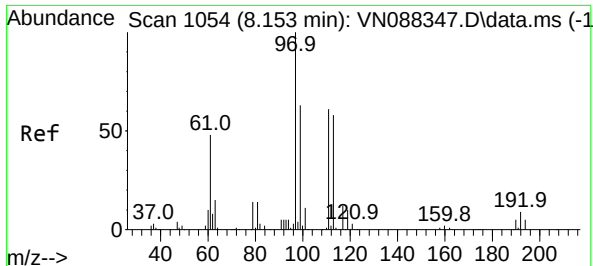
Ion Ratio Lower Upper

114 100

63 23.4 0.0 49.0

88 16.2 0.0 34.0





#35

Dibromofluoromethane

Concen: 54.512 ug/l

RT: 8.147 min Scan# 1103

Delta R.T. -0.006 min

Lab File: VN088525.D

Acq: 16 Dec 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

TK 7&8 20"

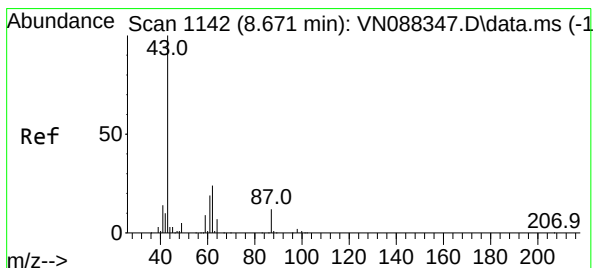
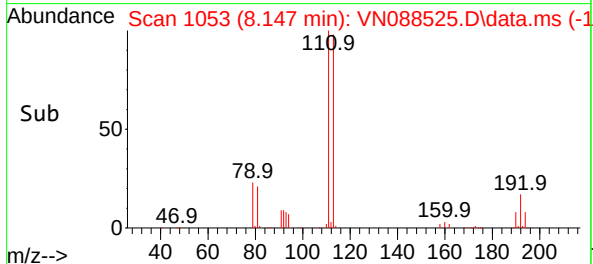
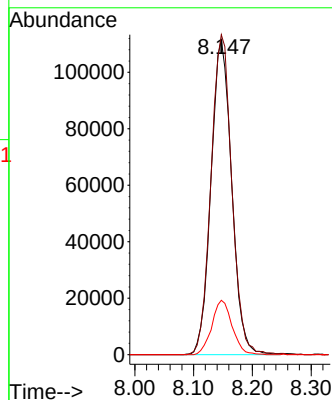
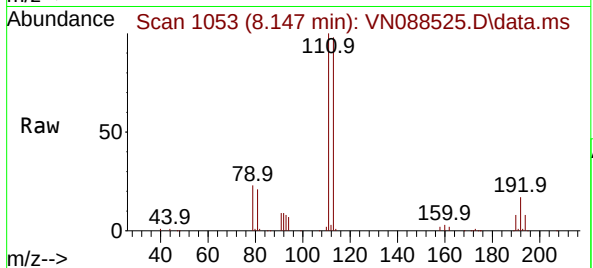
Tgt Ion:113 Resp: 272532

Ion Ratio Lower Upper

113 100

111 102.4 82.5 123.7

192 16.9 12.8 19.2



#43

Isopropyl Acetate

Concen: 1.817 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN088525.D

Acq: 16 Dec 2025 14:05

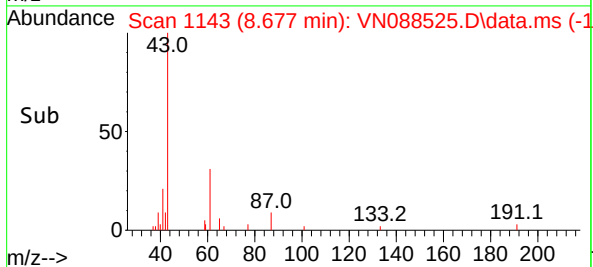
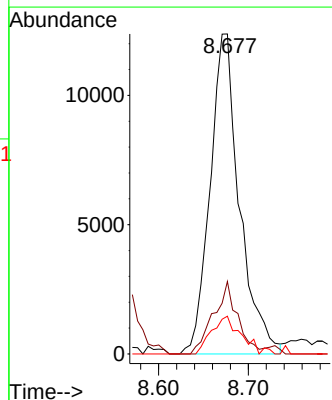
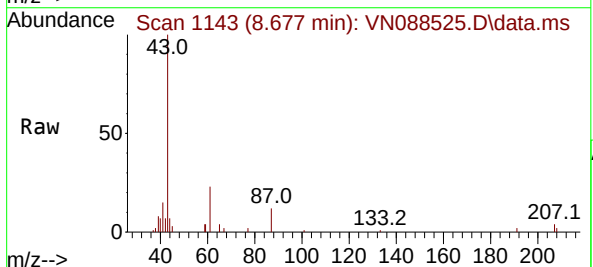
Tgt Ion: 43 Resp: 28165

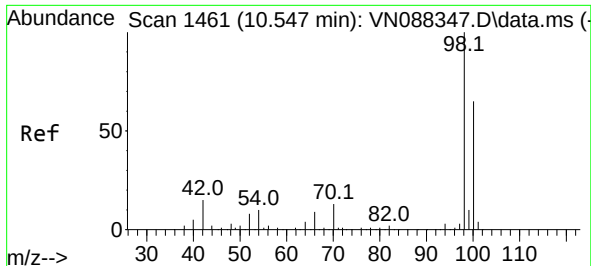
Ion Ratio Lower Upper

43 100

61 18.8 18.7 28.1

87 11.9 9.1 13.7

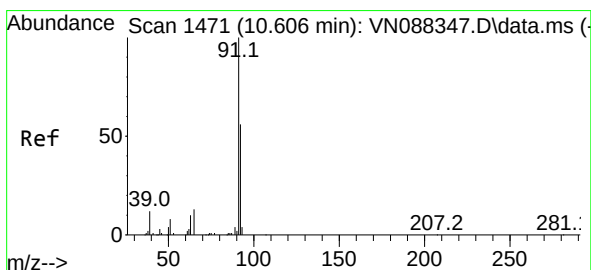
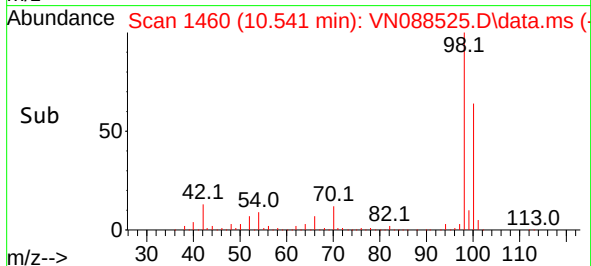
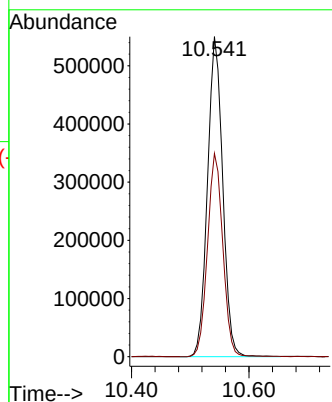
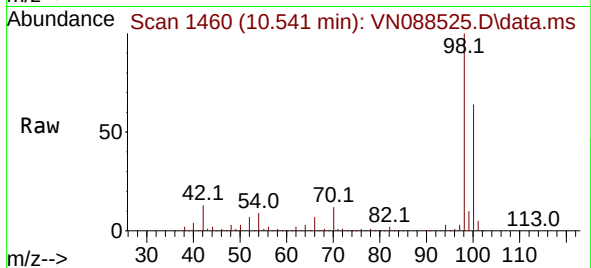




#50
Toluene-d8
Concen: 52.949 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

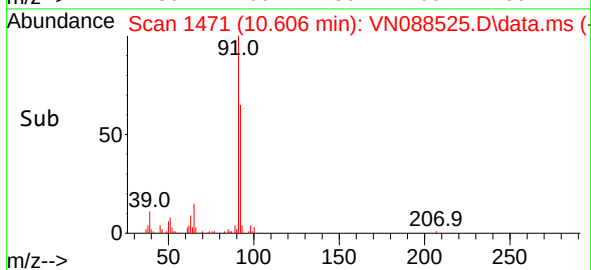
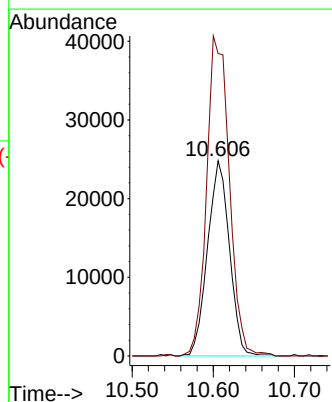
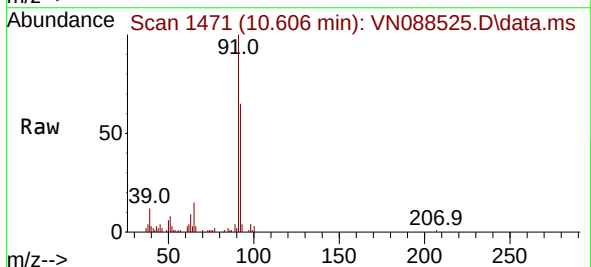
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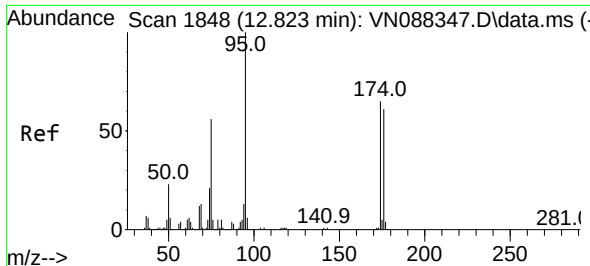
Tgt Ion: 98 Resp: 984963
Ion Ratio Lower Upper
98 100
100 63.9 52.2 78.2



#52
Toluene
Concen: 3.558 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

Tgt Ion: 92 Resp: 46530
Ion Ratio Lower Upper
92 100
91 169.8 140.2 210.2

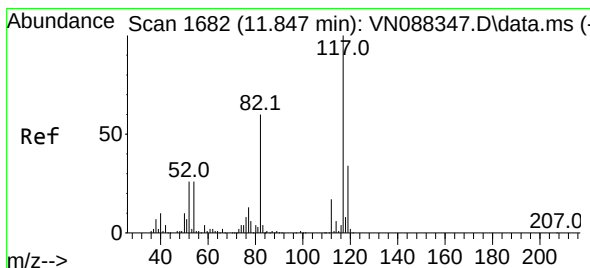
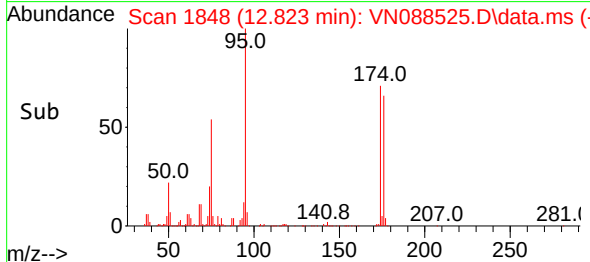
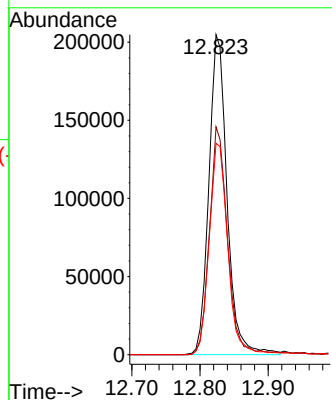
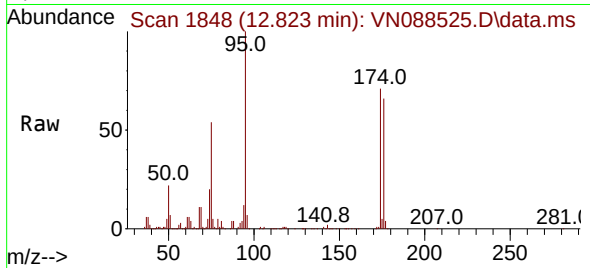




#62
4-Bromofluorobenzene
Concen: 59.568 ug/l
RT: 12.823 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

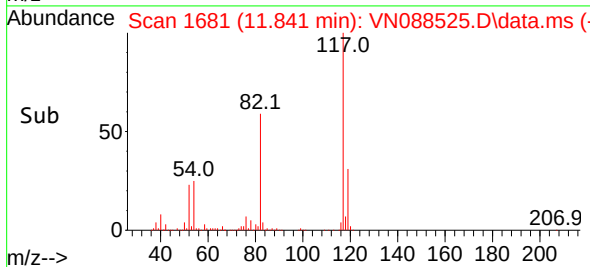
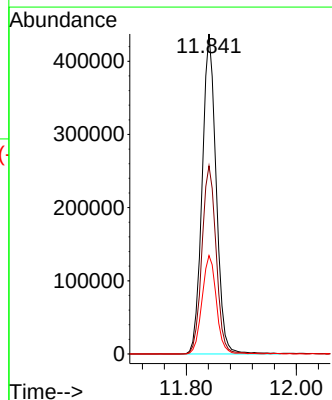
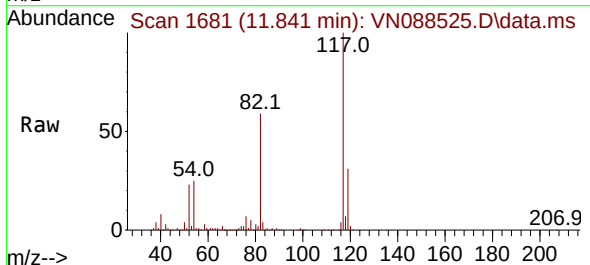
Instrument :
MSVOA_N
ClientSampleId :
TK 7&8 20"

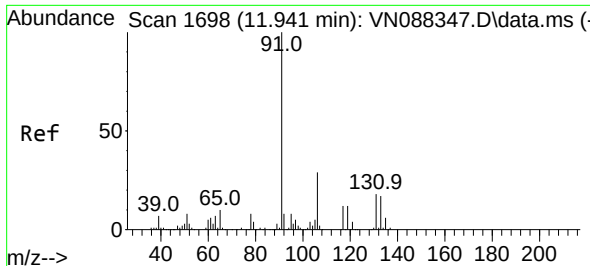
Tgt Ion: 95 Resp: 380201
Ion Ratio Lower Upper
95 100
174 70.6 0.0 139.0
176 67.7 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

Tgt Ion: 117 Resp: 773723
Ion Ratio Lower Upper
117 100
82 58.8 47.8 71.8
119 30.8 26.9 40.3

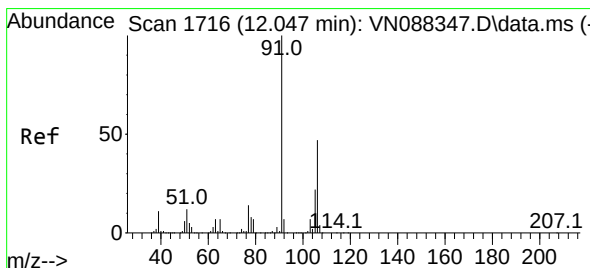
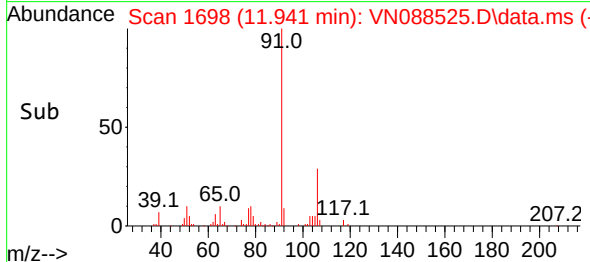
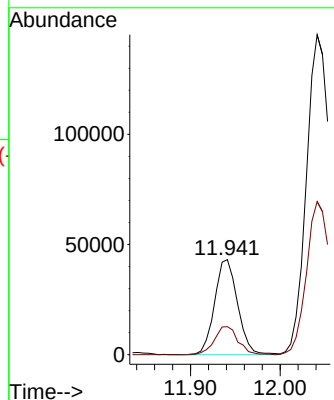
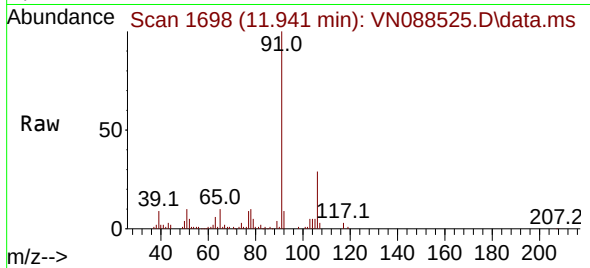




#67
Ethyl Benzene
Concen: 2.533 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

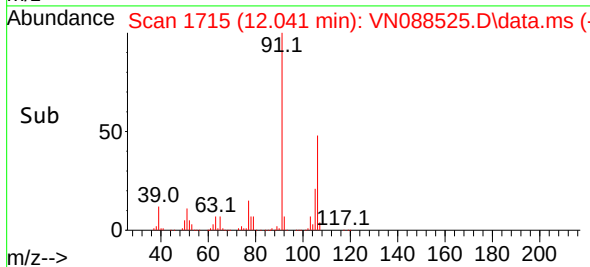
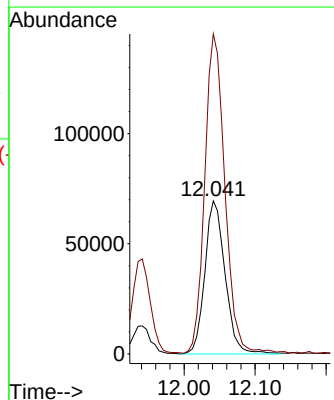
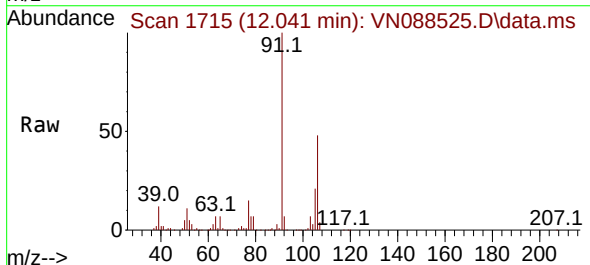
Instrument :
MSVOA_N
ClientSampleId :
TK 7&8 20"

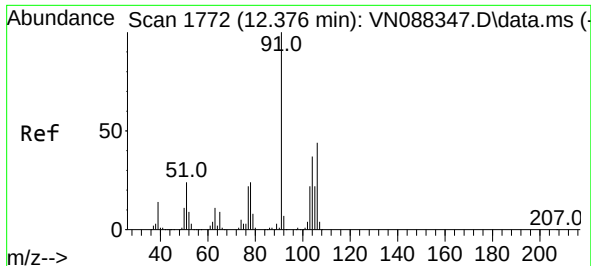
Tgt Ion: 91 Resp: 76927
Ion Ratio Lower Upper
91 100
106 29.4 23.6 35.4



#68
m/p-Xylenes
Concen: 12.225 ug/l
RT: 12.041 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

Tgt Ion: 106 Resp: 137681
Ion Ratio Lower Upper
106 100
91 207.5 167.8 251.6

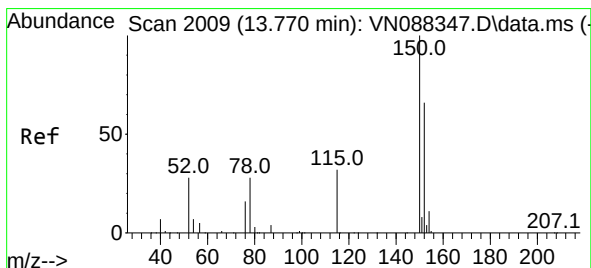
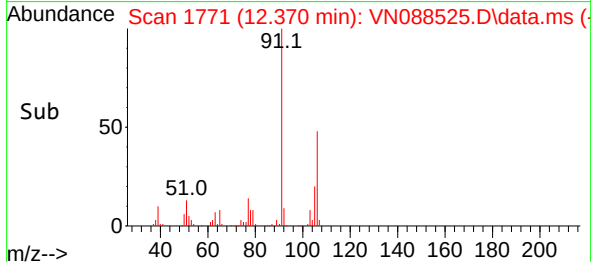
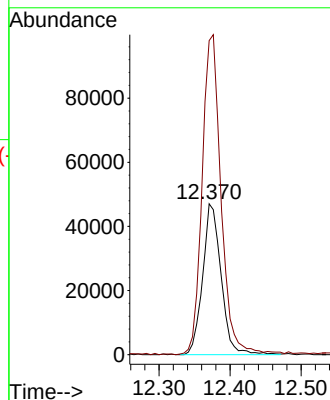
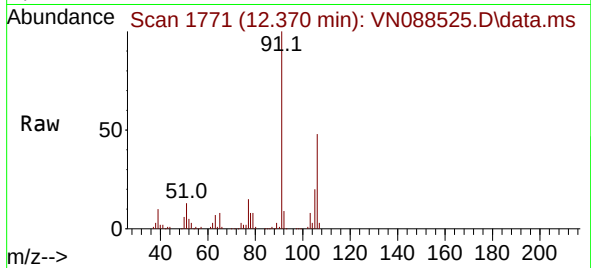




#69
o-Xylene
Concen: 7.943 ug/l
RT: 12.370 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

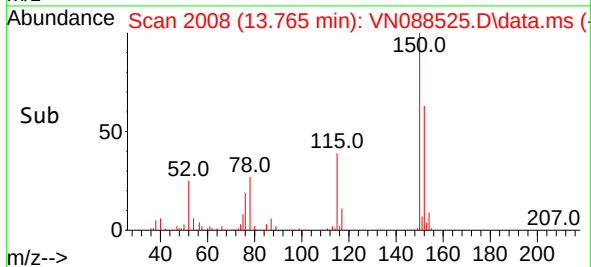
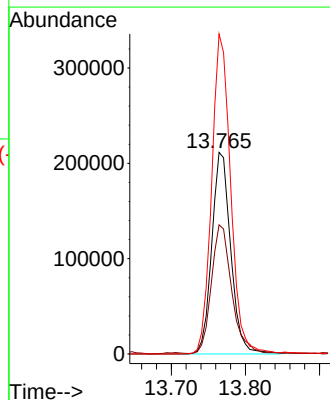
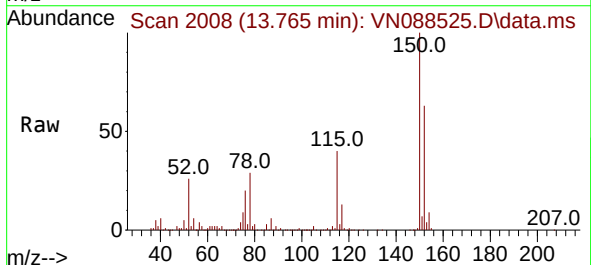
Instrument :
MSVOA_N
ClientSampleId :
TK 7&8 20"

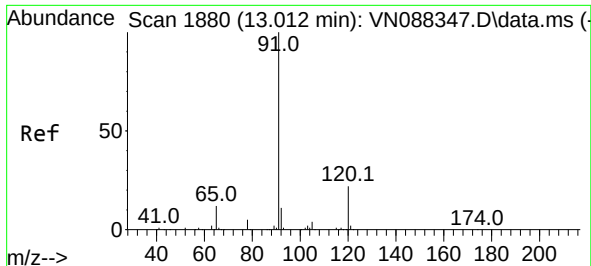
Tgt Ion:106 Resp: 85286
Ion Ratio Lower Upper
106 100
91 217.9 112.9 338.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.765 min Scan# 2008
Delta R.T. -0.006 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

Tgt Ion:152 Resp: 375701
Ion Ratio Lower Upper
152 100
115 68.2 33.0 98.9
150 158.8 0.0 349.0

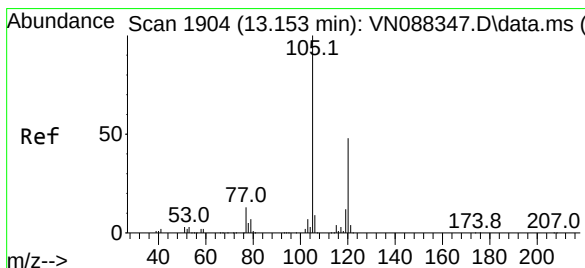
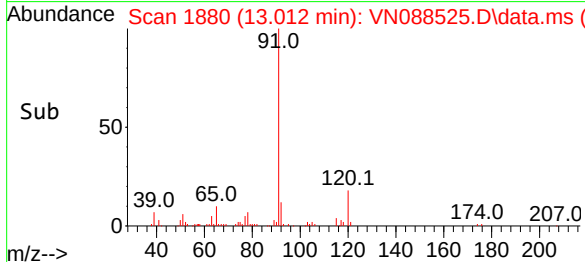
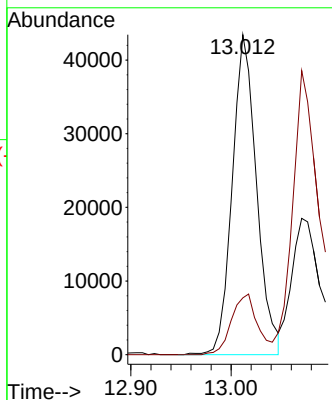
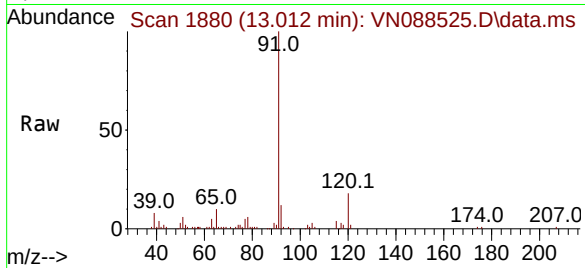




#78
n-propylbenzene
Concen: 2.161 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

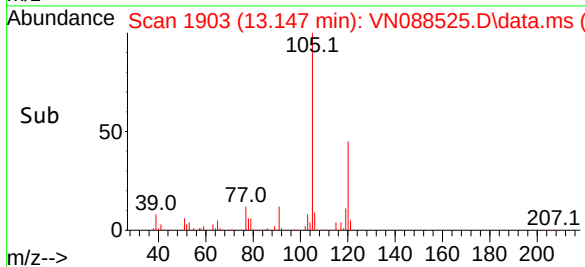
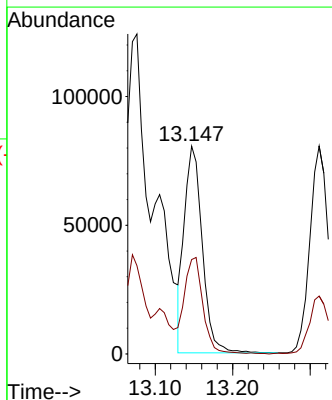
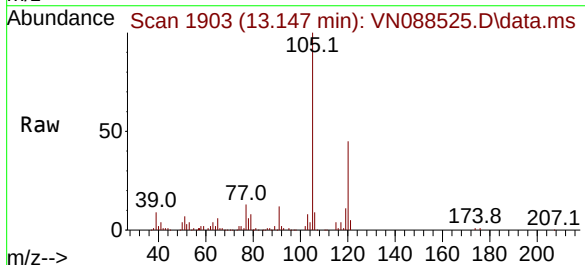
Instrument :
MSVOA_N
ClientSampleId :
TK 7&8 20"

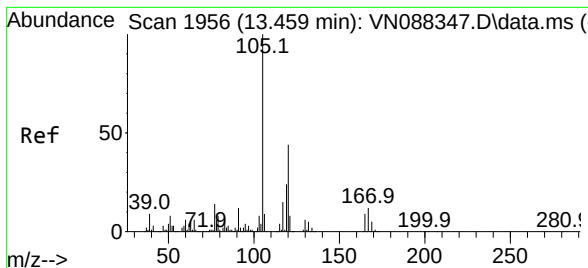
Tgt Ion: 91 Resp: 73430
Ion Ratio Lower Upper
91 100
120 20.4 10.9 32.6



#80
1,3,5-Trimethylbenzene
Concen: 5.627 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088525.D
Acq: 16 Dec 2025 14:05

Tgt Ion: 105 Resp: 129532
Ion Ratio Lower Upper
105 100
120 50.5 23.8 71.5





#84

1,2,4-Trimethylbenzene

Concen: 23.959 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN088525.D

Acq: 16 Dec 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

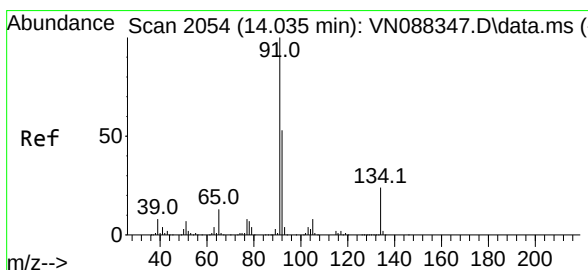
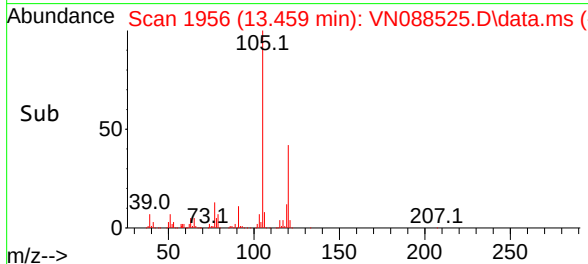
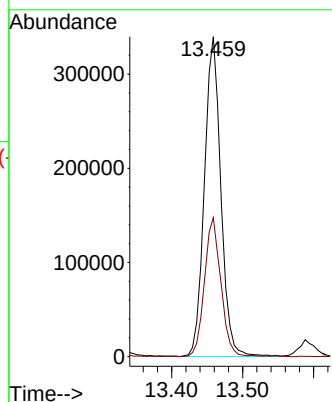
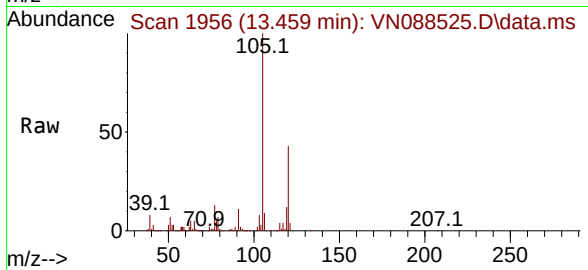
TK 7&8 20"

Tgt Ion:105 Resp: 548167

Ion Ratio Lower Upper

105 100

120 43.6 22.1 66.1



#89

n-Butylbenzene

Concen: 1.842 ug/l m

RT: 14.029 min Scan# 2053

Delta R.T. -0.006 min

Lab File: VN088525.D

Acq: 16 Dec 2025 14:05

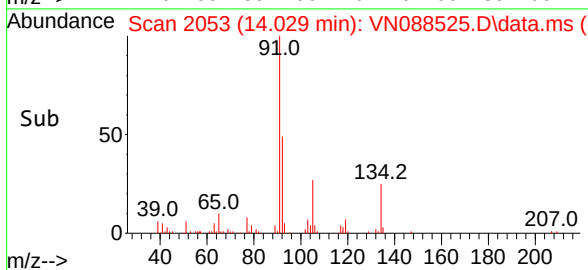
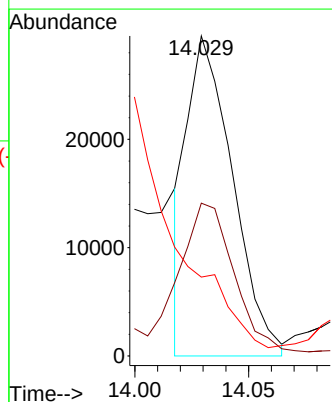
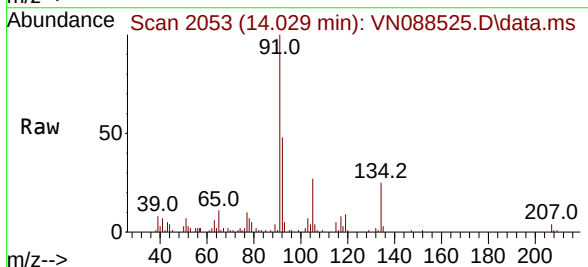
Tgt Ion: 91 Resp: 41226

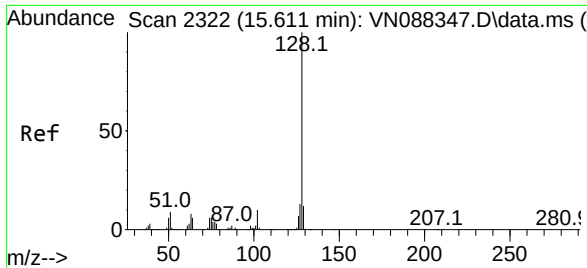
Ion Ratio Lower Upper

91 100

92 58.1 26.1 78.3

134 0.0 11.7 35.1#





#95

Naphthalene

Concen: 33.755 ug/l

RT: 15.611 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN088525.D

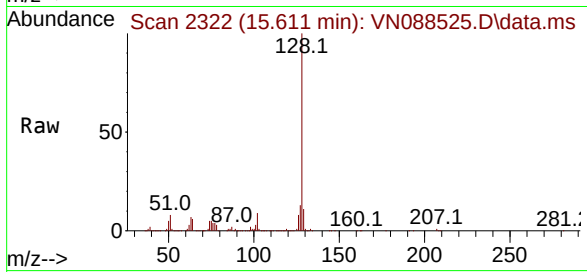
Acq: 16 Dec 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

TK 7&8 20"



Tgt Ion:128 Resp: 809178

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 10.8 9.0 13.6

