

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110625\
 Data File : VN088216.D
 Acq On : 06 Nov 2025 18:37
 Operator : JC\MD
 Sample : Q3560-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SY-12D

Quant Time: Nov 07 02:24:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

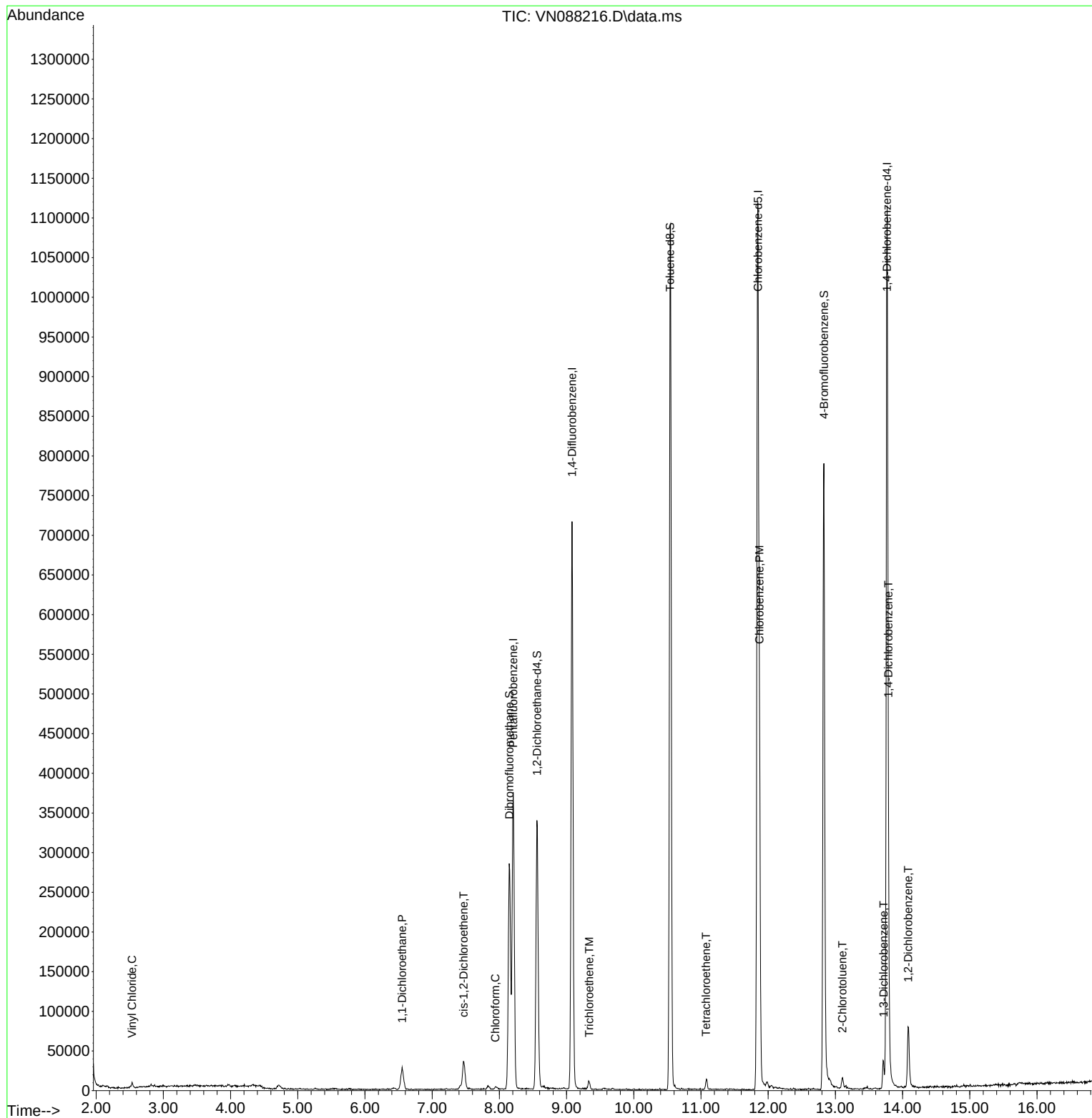
Internal Standards						
1) Pentafluorobenzene	8.206	168	251832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	582112	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	576057	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	286829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	281821	64.716	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 129.440%#		
35) Dibromofluoromethane	8.147	113	204107	52.192	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.380%		
50) Toluene-d8	10.541	98	740718	49.157	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 98.320%		
62) 4-Bromofluorobenzene	12.829	95	305391	57.387	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 114.780%		
Target Compounds						
						Qvalue
4) Vinyl Chloride	2.536	62	4433	1.217	ug/l	92
24) 1,1-Dichloroethane	6.553	63	38489	5.955	ug/l	95
27) cis-1,2-Dichloroethene	7.471	96	22046	5.512	ug/l	87
30) Chloroform	7.941	83	3032	0.470	ug/l	88
44) Trichloroethene	9.335	130	2900	0.713	ug/l	88
64) Tetrachloroethene	11.076	164	2856	0.752	ug/l #	81
65) Chlorobenzene	11.871	112	224605	17.171	ug/l	100
79) 2-Chlorotoluene	13.106	91	8609	0.559	ug/l	92
87) 1,3-Dichlorobenzene	13.717	146	13667	1.435	ug/l	95
88) 1,4-Dichlorobenzene	13.788	146	56652	5.539	ug/l	93
91) 1,2-Dichlorobenzene	14.082	146	35594	3.877	ug/l	99

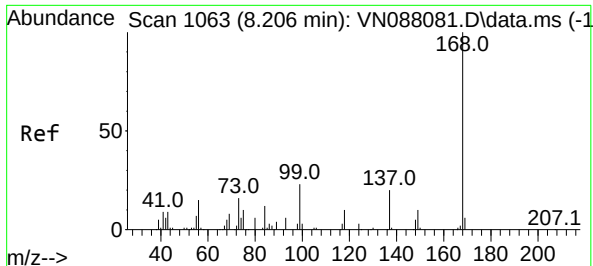
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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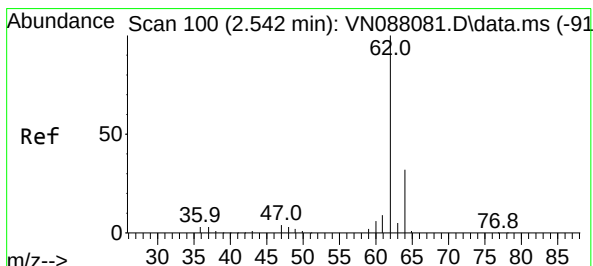
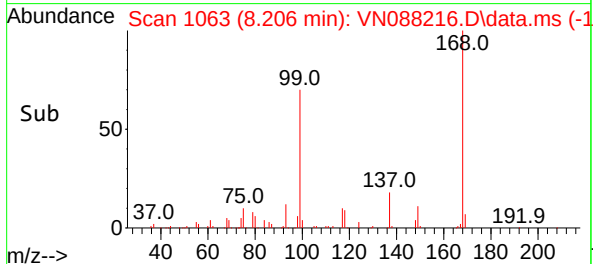
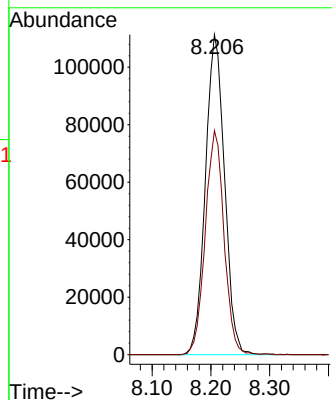
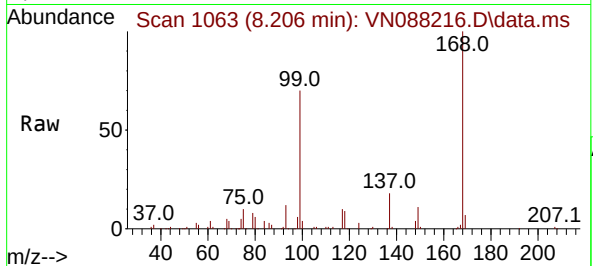




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

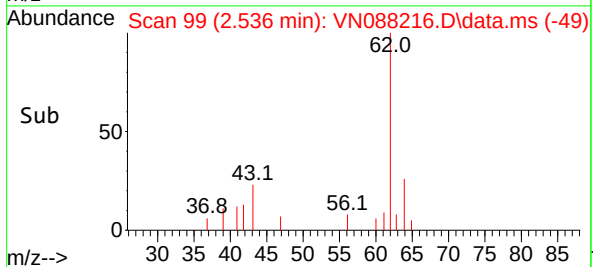
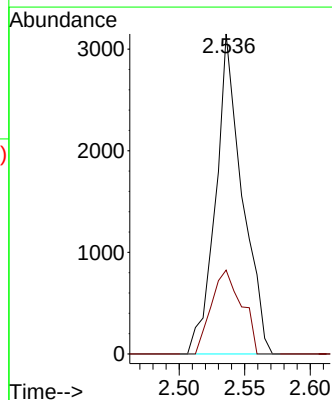
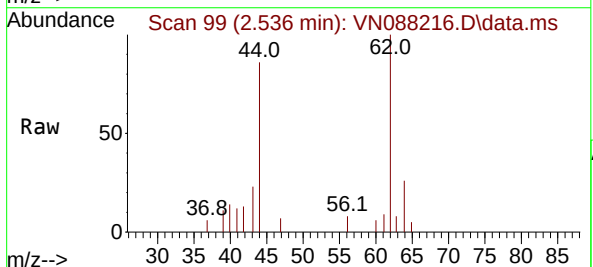
Instrument :
MSVOA_N
ClientSampleId :
SY-12D

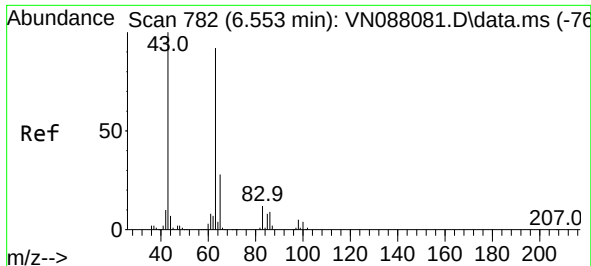
Tgt Ion:168 Resp: 251832
Ion Ratio Lower Upper
168 100
99 70.0 57.2 85.8



#4
Vinyl Chloride
Concen: 1.217 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

Tgt Ion: 62 Resp: 4433
Ion Ratio Lower Upper
62 100
64 26.2 24.6 37.0

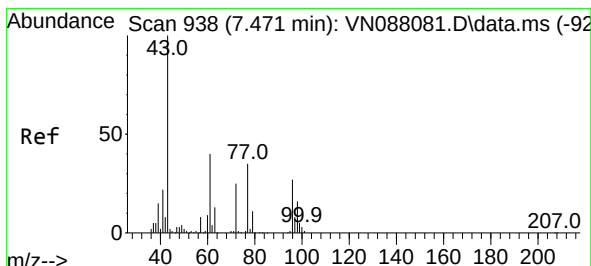
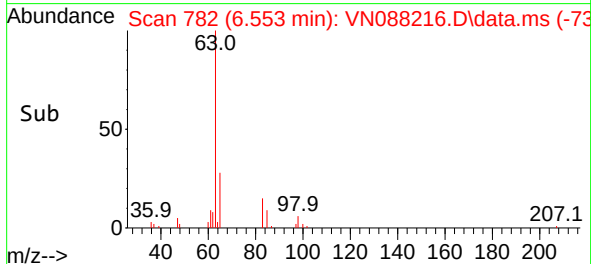
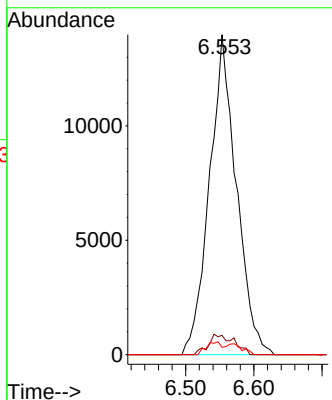
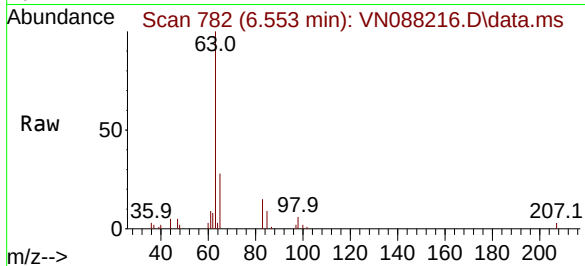




#24
1,1-Dichloroethane
Concen: 5.955 ug/l
RT: 6.553 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

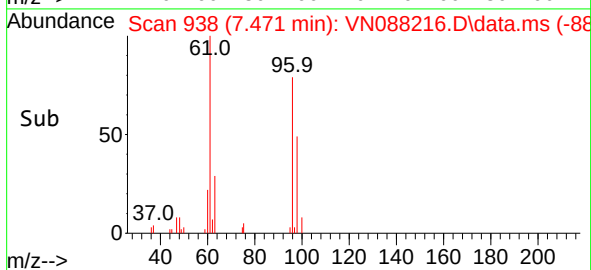
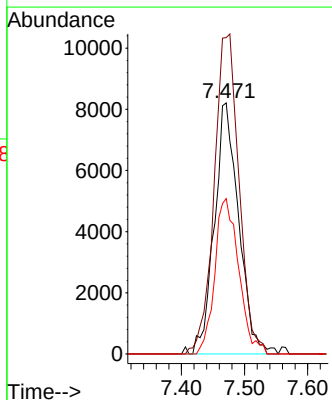
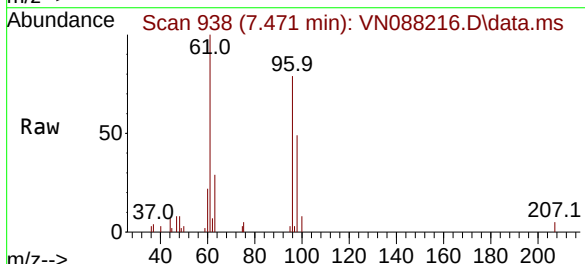
Instrument :
MSVOA_N
ClientSampleId :
SY-12D

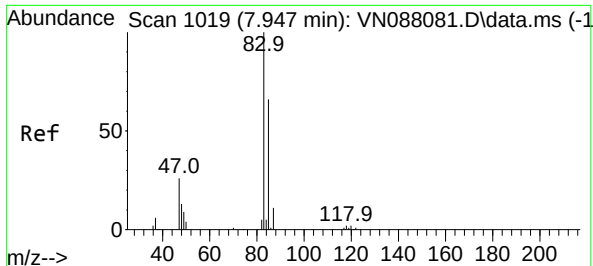
Tgt Ion: 63 Resp: 38489
Ion Ratio Lower Upper
63 100
98 6.1 3.8 11.4
100 2.3 2.0 6.0



#27
cis-1,2-Dichloroethene
Concen: 5.512 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

Tgt Ion: 96 Resp: 22046
Ion Ratio Lower Upper
96 100
61 129.6 0.0 301.8
98 60.6 0.0 126.2





#30

Chloroform

Concen: 0.470 ug/l

RT: 7.941 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VN088216.D

Acq: 06 Nov 2025 18:37

Instrument :

MSVOA_N

ClientSampleId :

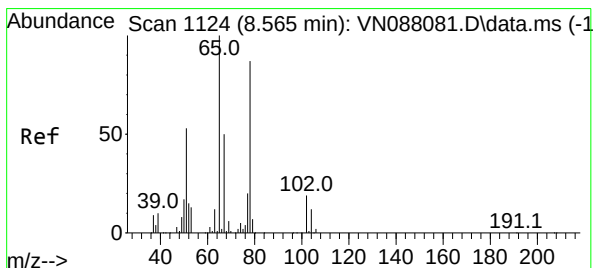
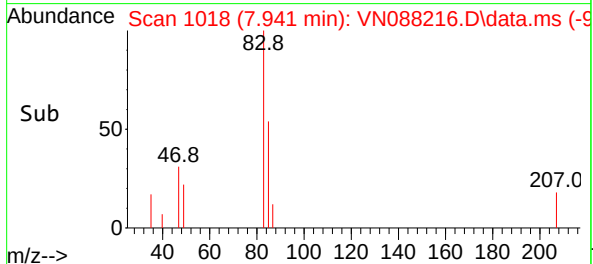
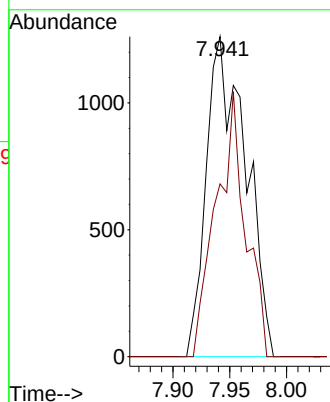
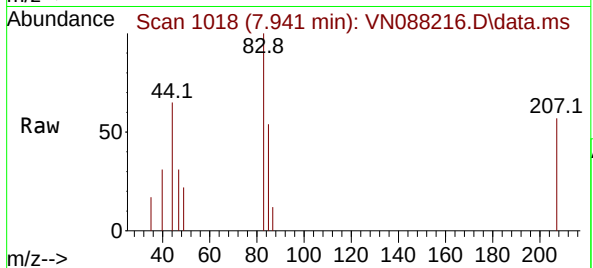
SY-12D

Tgt Ion: 83 Resp: 3032

Ion Ratio Lower Upper

83 100

85 54.0 50.7 76.1



#33

1,2-Dichloroethane-d4

Concen: 64.716 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088216.D

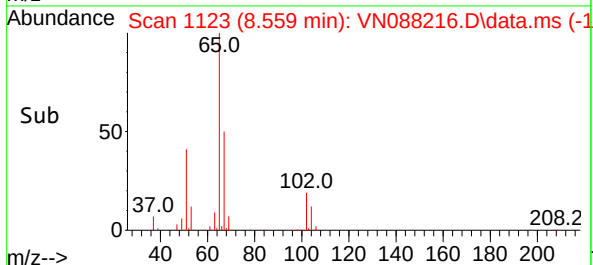
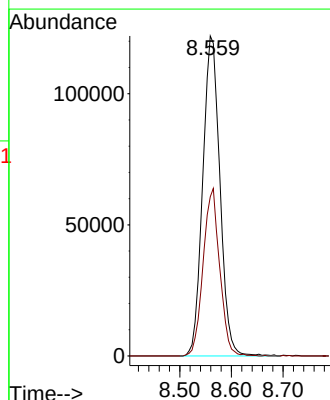
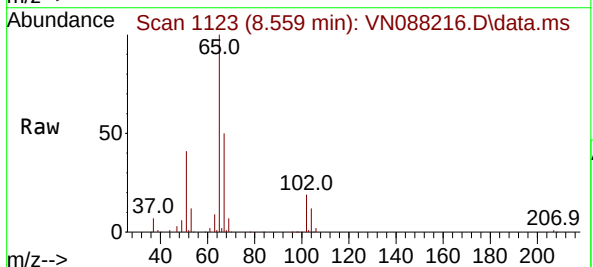
Acq: 06 Nov 2025 18:37

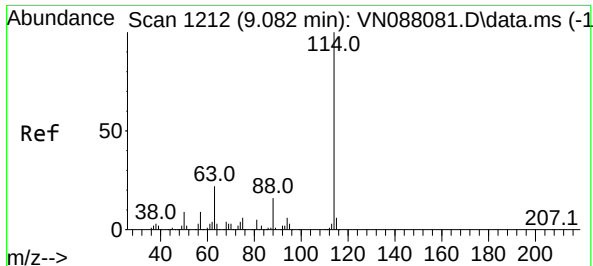
Tgt Ion: 65 Resp: 281821

Ion Ratio Lower Upper

65 100

67 50.4 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088216.D

Acq: 06 Nov 2025 18:37

Instrument :

MSVOA_N

ClientSampleId :

SY-12D

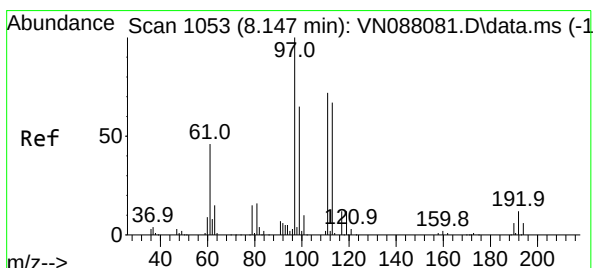
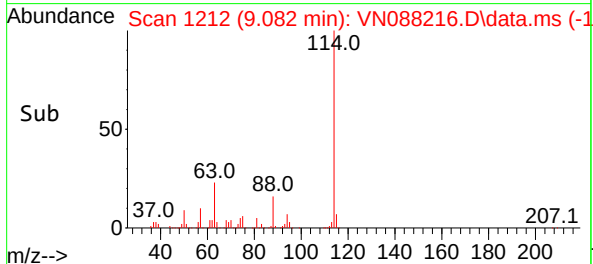
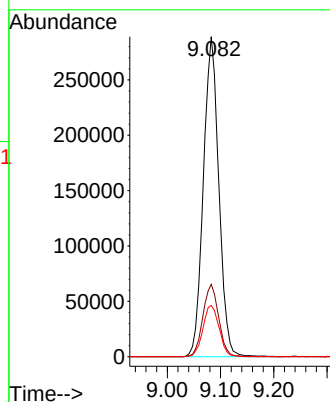
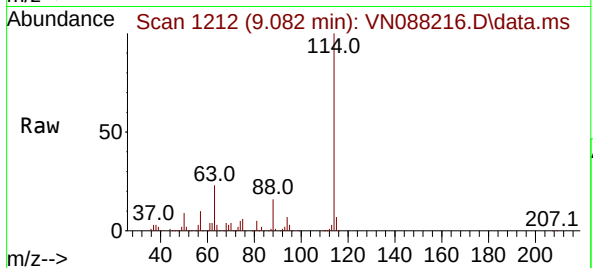
Tgt Ion:114 Resp: 582112

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.2

88 16.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 52.192 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088216.D

Acq: 06 Nov 2025 18:37

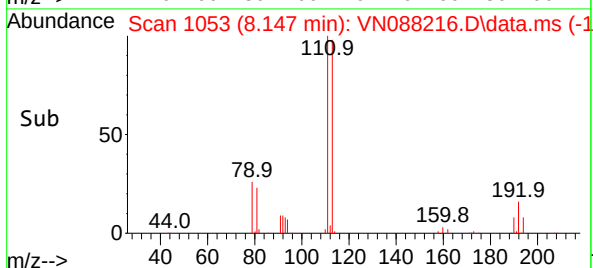
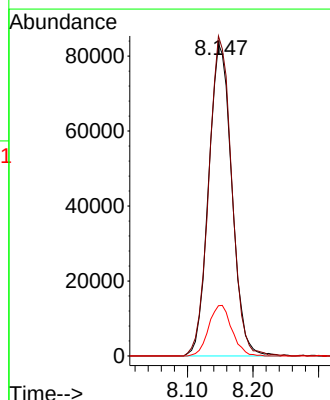
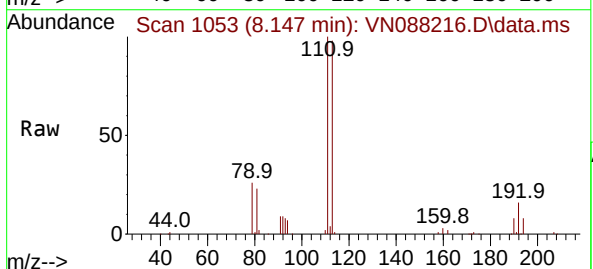
Tgt Ion:113 Resp: 204107

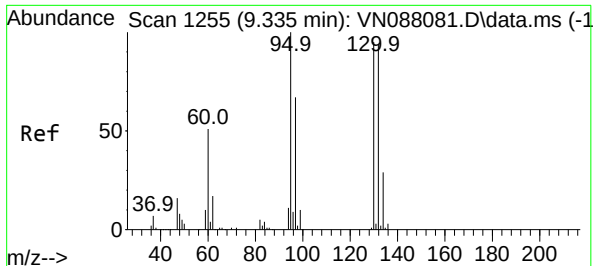
Ion Ratio Lower Upper

113 100

111 101.6 82.8 124.2

192 16.2 12.8 19.2

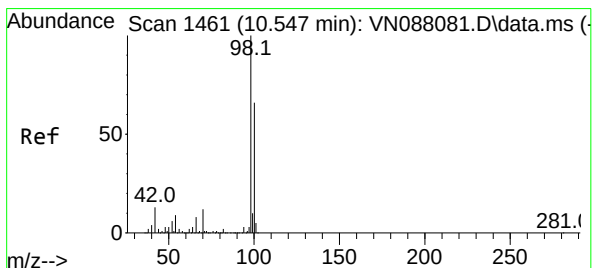
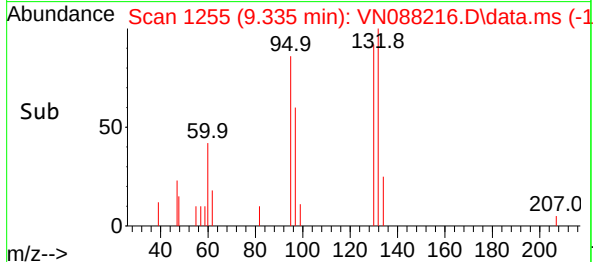
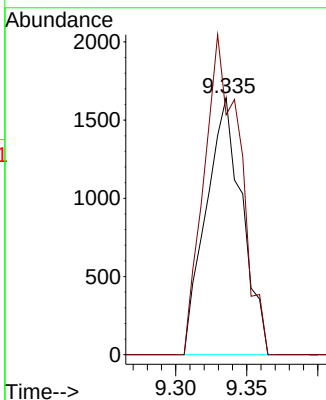
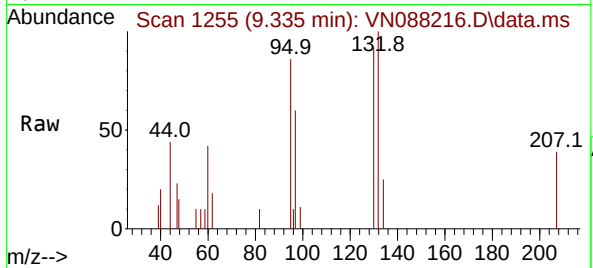




#44
Trichloroethene
Concen: 0.713 ug/l
RT: 9.335 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

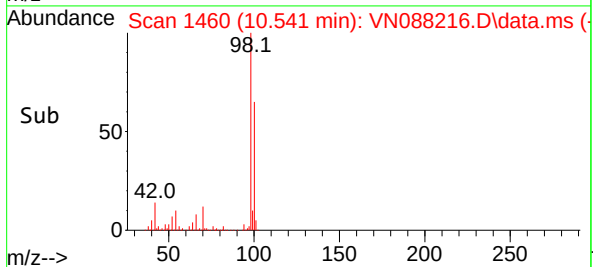
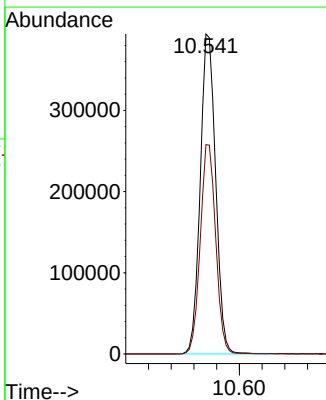
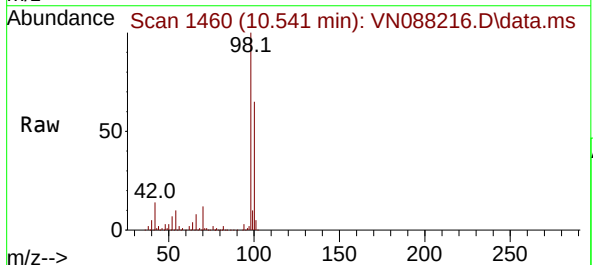
Instrument :
MSVOA_N
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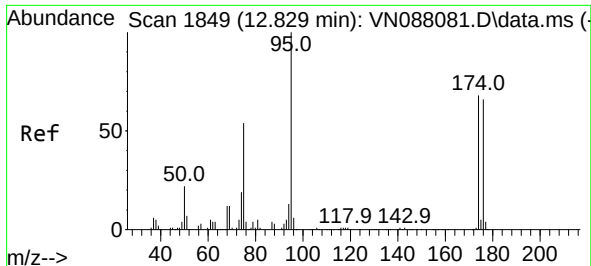
Tgt Ion:130 Resp: 2900
Ion Ratio Lower Upper
130 100
95 93.4 0.0 212.0



#50
Toluene-d8
Concen: 49.157 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

Tgt Ion: 98 Resp: 740718
Ion Ratio Lower Upper
98 100
100 65.6 52.8 79.2

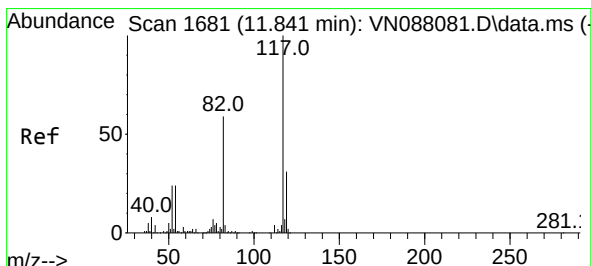
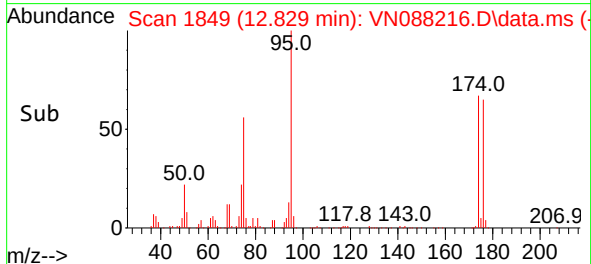
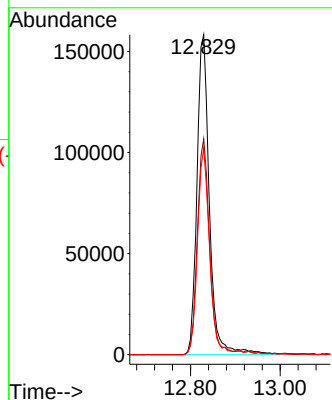
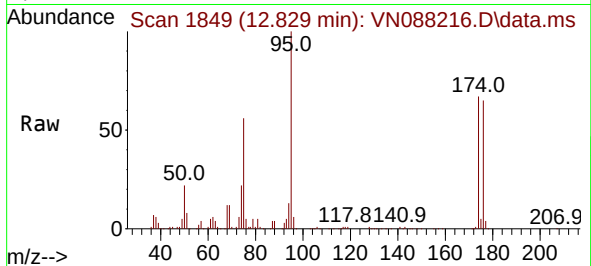




#62
4-Bromofluorobenzene
Concen: 57.387 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

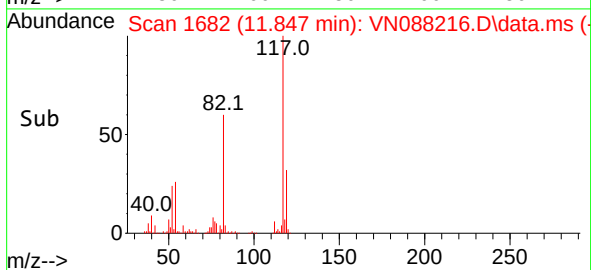
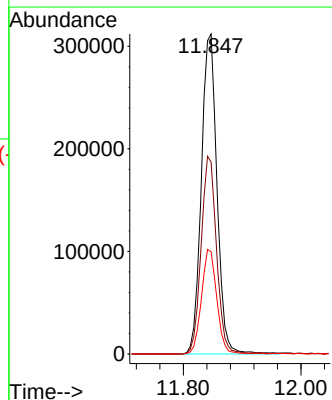
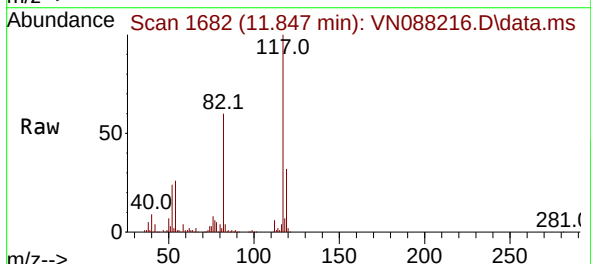
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MSVOA_N
ClientSampleId :
SY-12D

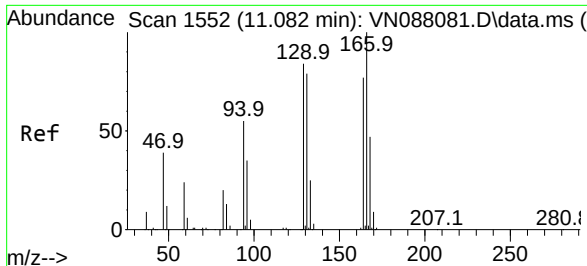
Tgt Ion: 95 Resp: 305391
Ion Ratio Lower Upper
95 100
174 65.9 0.0 138.4
176 61.8 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

Tgt Ion: 117 Resp: 576057
Ion Ratio Lower Upper
117 100
82 60.0 47.4 71.2
119 31.9 24.3 36.5

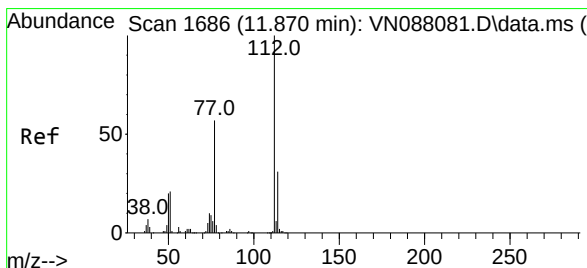
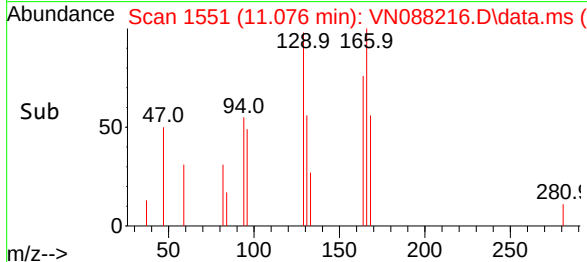
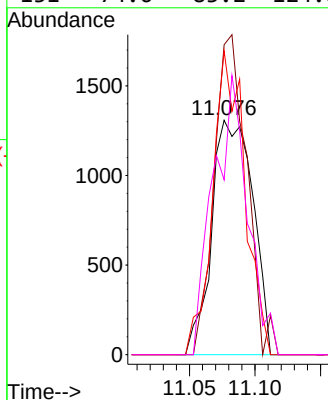
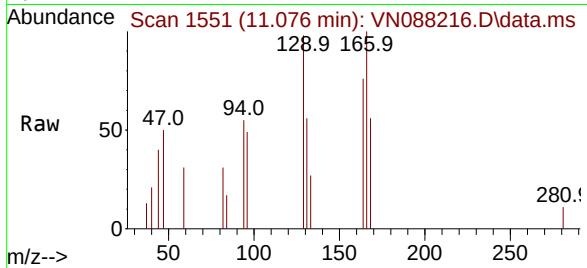




#64
Tetrachloroethene
Concen: 0.752 ug/l
RT: 11.076 min Scan# 1551
Delta R.T. -0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

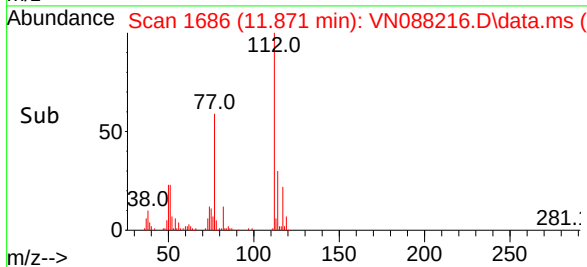
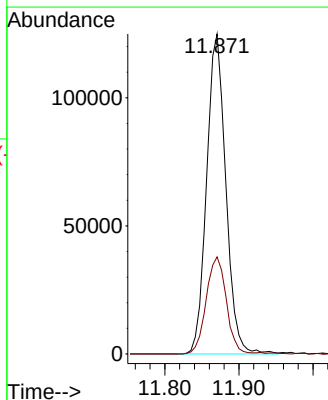
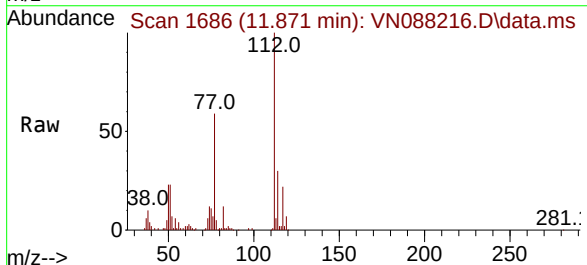
Instrument :
MSVOA_N
ClientSampleId :
SY-12D

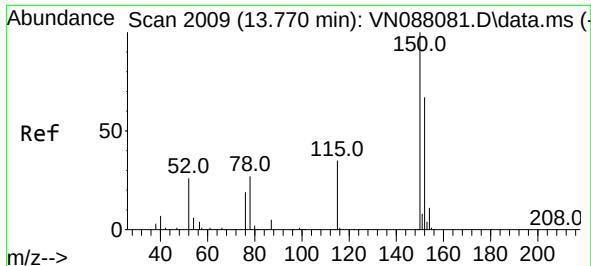
Tgt Ion:164 Resp: 2856
Ion Ratio Lower Upper
164 100
166 132.3 97.7 146.5
129 129.6 85.9 128.9#
131 74.6 83.2 124.8#



#65
Chlorobenzene
Concen: 17.171 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

Tgt Ion:112 Resp: 224605
Ion Ratio Lower Upper
112 100
114 30.3 24.3 36.5

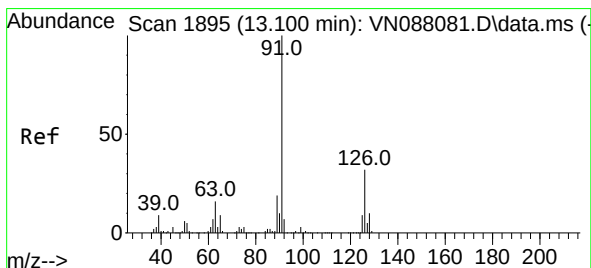
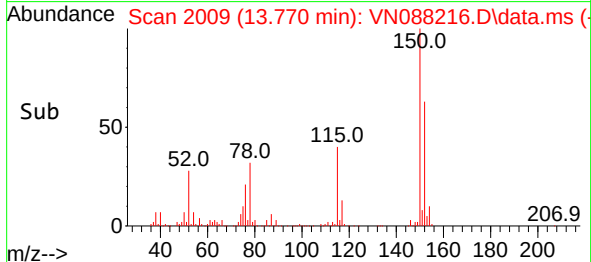
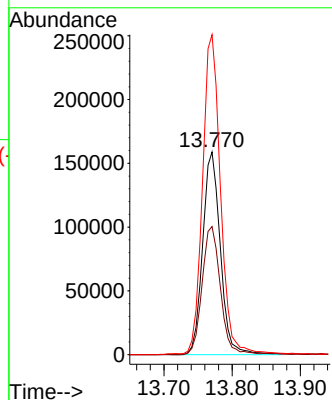
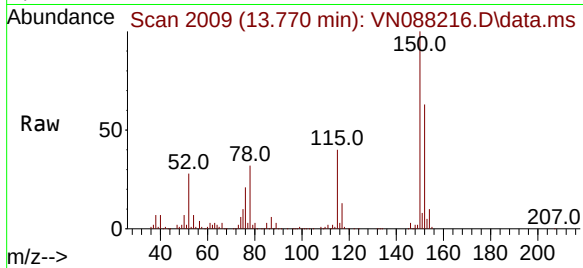




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

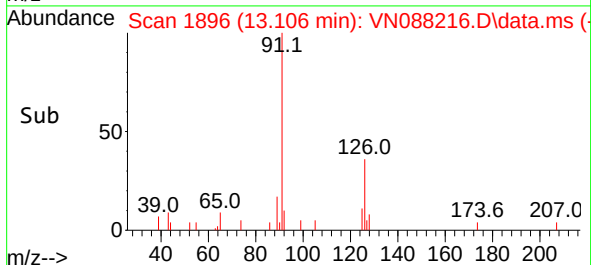
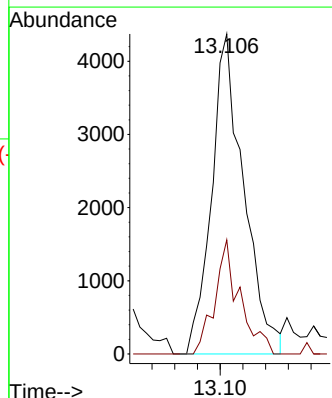
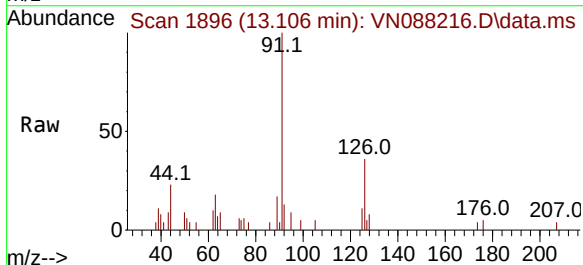
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ClientSampleId :
SY-12D

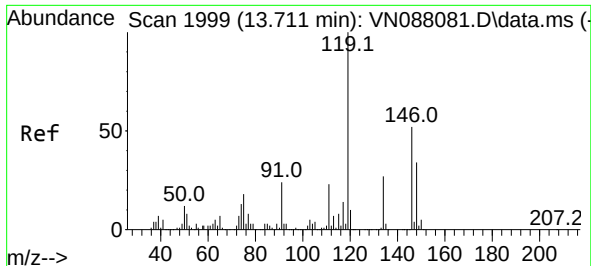
Tgt Ion:152 Resp: 286829
Ion Ratio Lower Upper
152 100
115 65.2 32.3 96.8
150 162.0 0.0 351.0



#79
2-Chlorotoluene
Concen: 0.559 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.006 min
Lab File: VN088216.D
Acq: 06 Nov 2025 18:37

Tgt Ion: 91 Resp: 8609
Ion Ratio Lower Upper
91 100
126 27.7 16.1 48.3

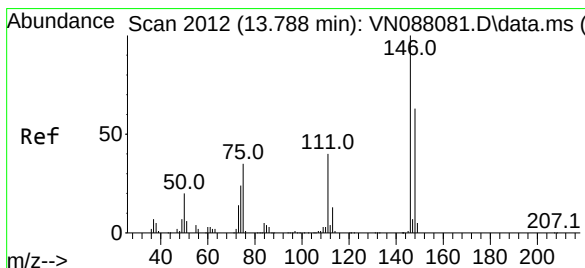
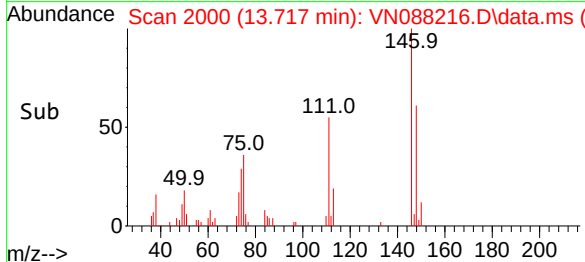
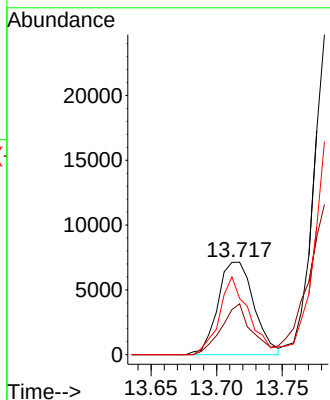
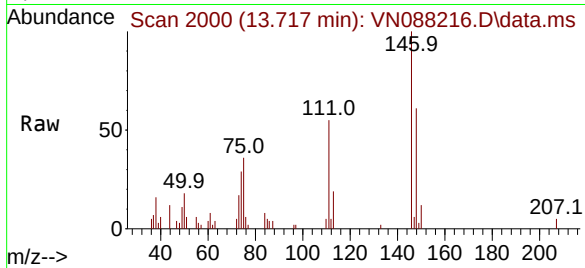




#87
 1,3-Dichlorobenzene
 Concen: 1.435 ug/l
 RT: 13.717 min Scan# 2012
 Delta R.T. 0.006 min
 Lab File: VN088216.D
 Acq: 06 Nov 2025 18:37

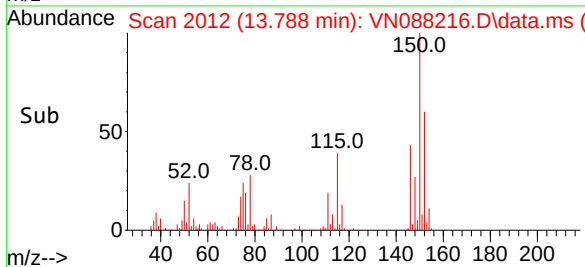
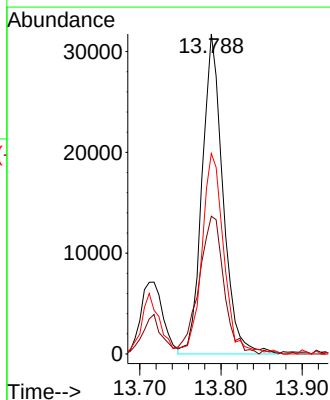
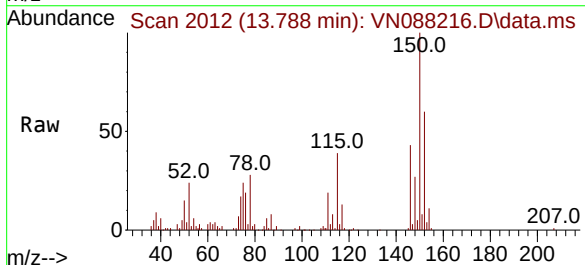
Instrument :
 MSVOA_N
 ClientSampleId :
 SY-12D

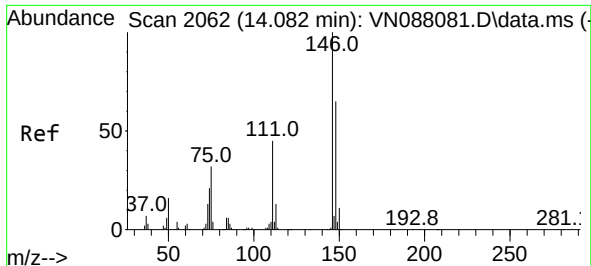
Tgt Ion:146 Resp: 13667
 Ion Ratio Lower Upper
 146 100
 111 45.7 22.1 66.5
 148 69.4 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 5.539 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN088216.D
 Acq: 06 Nov 2025 18:37

Tgt Ion:146 Resp: 56652
 Ion Ratio Lower Upper
 146 100
 111 51.8 21.0 63.0
 148 65.6 32.0 96.0





#91

1,2-Dichlorobenzene

Concen: 3.877 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN088216.D

Acq: 06 Nov 2025 18:37

Instrument :

MSVOA_N

ClientSampleId :

SY-12D

Tgt Ion:146 Resp: 35594

Ion Ratio Lower Upper

146 100

111 44.9 22.6 67.8

148 62.3 31.9 95.9

