

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101725\
 Data File : VX048208.D
 Acq On : 17 Oct 2025 13:43
 Operator : JC/MD
 Sample : Q3311-12DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 18 00:17:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X101725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 18 00:06:31 2025
 Response via : Initial Calibration

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

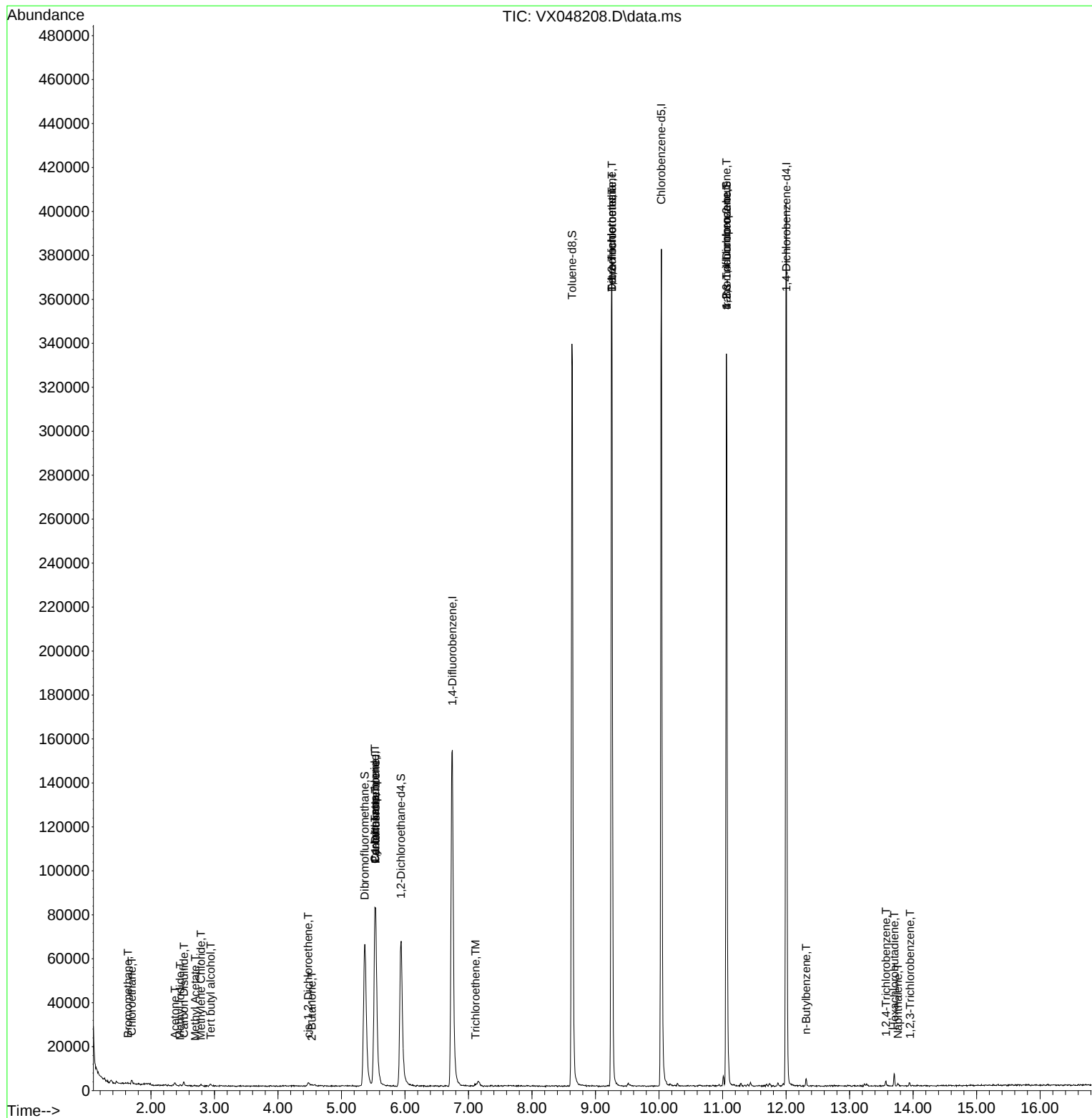
Internal Standards						
1) Pentafluorobenzene	5.538	168	83059	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	168187	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	177290	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	85687	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	74775	58.112	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 116.220%	
35) Dibromofluoromethane	5.367	113	62512	53.554	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.100%	
50) Toluene-d8	8.628	98	211099	50.200	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.400%	
62) 4-Bromofluorobenzene	11.061	95	94031	61.393	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 122.780%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.636	94	383	0.518	ug/l #	73
6) Chloroethane	1.697	64	1245	1.758	ug/l	99
10) Methyl Iodide	2.459	142	595	0.505	ug/l #	65
11) Tert butyl alcohol	2.940	59	191	2.237	ug/l #	72
16) Acetone	2.380	43	2038	4.643	ug/l #	49
17) Carbon Disulfide	2.520	76	2047	0.691	ug/l #	93
18) Methyl Acetate	2.697	43	346	0.387	ug/l #	54
20) Methylene Chloride	2.788	84	267	0.250	ug/l #	85
25) 2-Butanone	4.532	43	107	0.209	ug/l #	50
27) cis-1,2-Dichloroethene	4.477	96	618	0.523	ug/l	28
31) Cyclohexane	5.531	56	1026	0.652	ug/l #	29
36) 1,1-Dichloropropene	5.531	75	7518	4.572	ug/l #	49
38) Carbon Tetrachloride	5.525	117	8870	4.700	ug/l #	17
44) Trichloroethene	7.110	130	357	0.290	ug/l	64
55) 1,1,2-Trichloroethane	9.256	97	804	0.734	ug/l #	27
60) Dibromochloromethane	9.256	129	73920	53.934	ug/l #	11
64) Tetrachloroethene	9.256	164	74512	59.941	ug/l	94
76) 1,2,3-Trichloropropane	11.061	75	49216	37.613	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	49216	92.101	ug/l #	10
89) n-Butylbenzene	12.317	91	1436	0.303	ug/l	94
93) 1,2,4-Trichlorobenzene	13.573	180	665	0.427	ug/l #	76
94) Hexachlorobutadiene	13.707	225	749	1.248	ug/l	90
95) Naphthalene	13.762	128	1128	0.275	ug/l #	83
96) 1,2,3-Trichlorobenzene	13.951	180	489	0.341	ug/l #	88

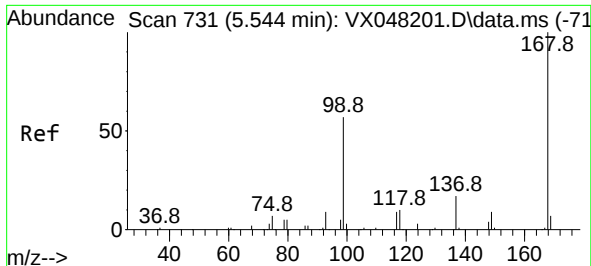
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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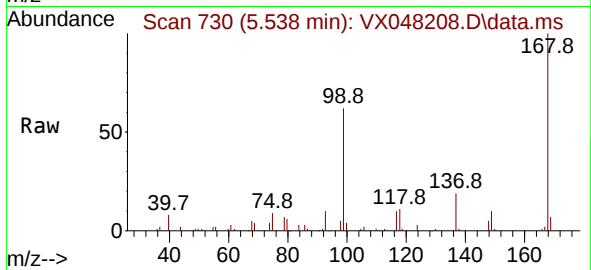
Quant Time: Oct 18 00:17:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X101725W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 18 00:06:31 2025
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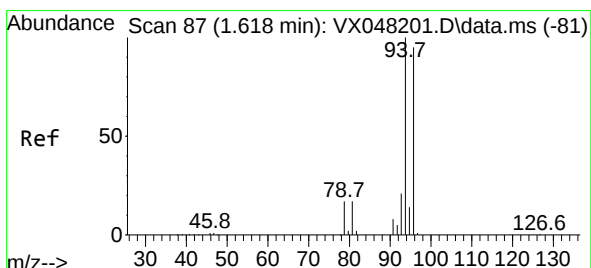
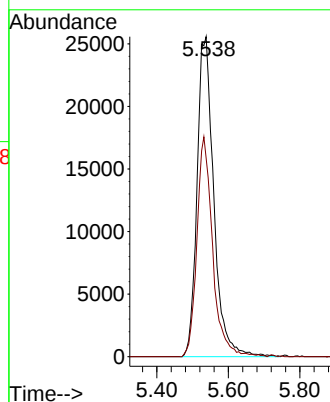
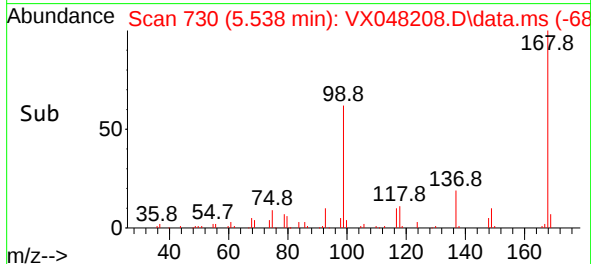


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :

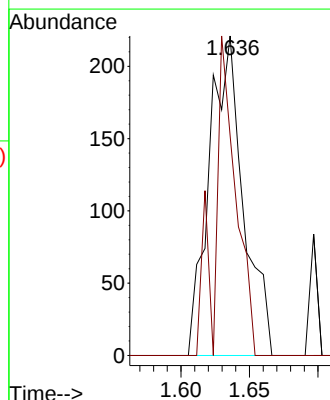
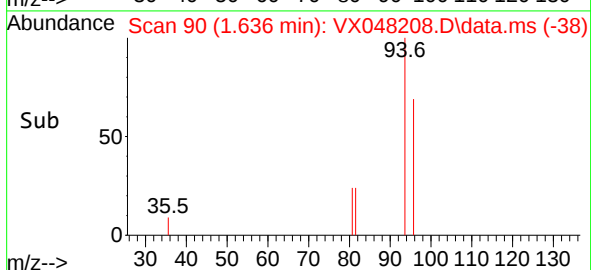
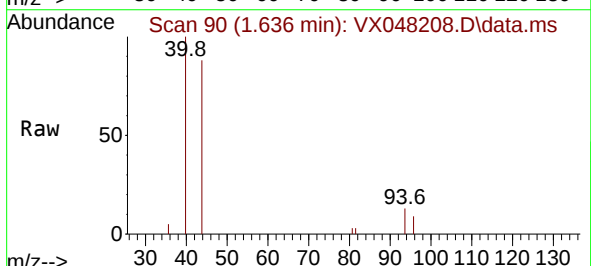


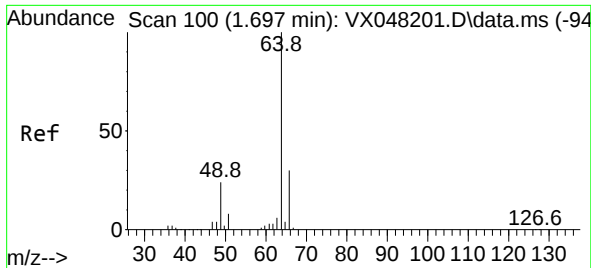
Tgt Ion:168 Resp: 83059
Ion Ratio Lower Upper
168 100
99 62.1 46.4 69.6



#5
Bromomethane
Concen: 0.518 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.018 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Tgt Ion: 94 Resp: 383
Ion Ratio Lower Upper
94 100
96 68.8 76.0 114.0#

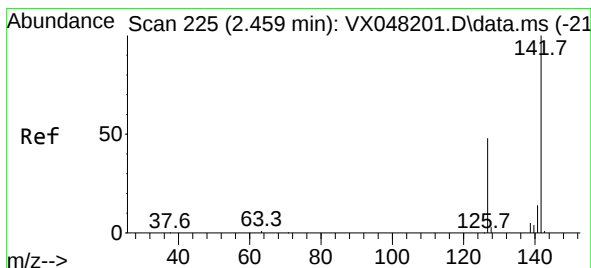
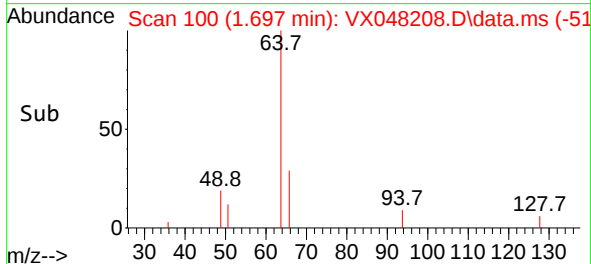
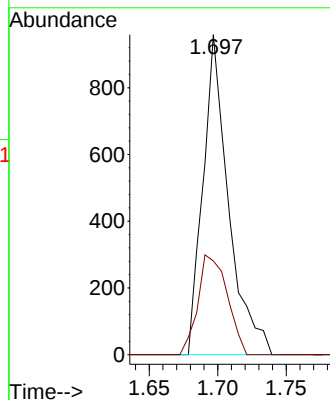
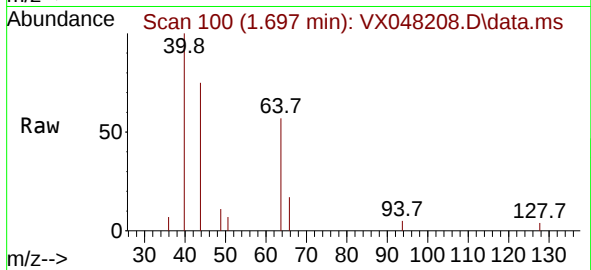




#6
Chloroethane
Concen: 1.758 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

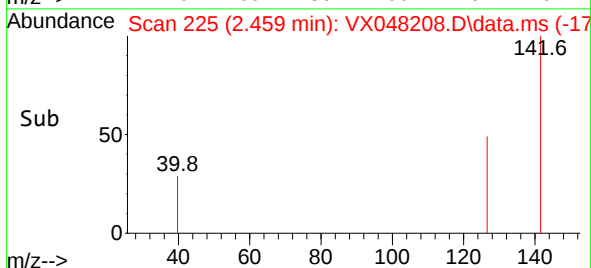
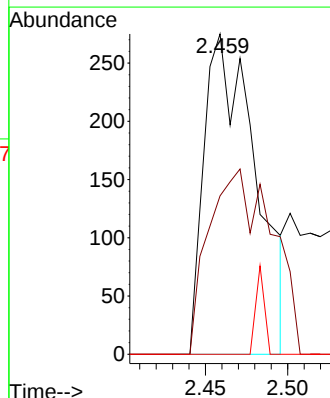
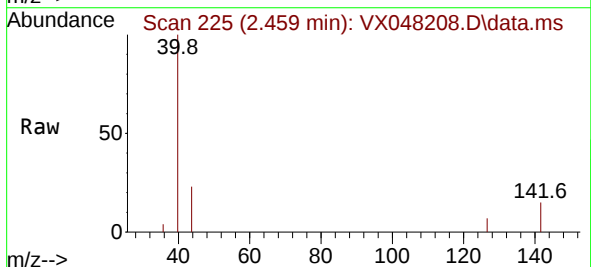
Instrument :
MSVOA_X
ClientSampleId :

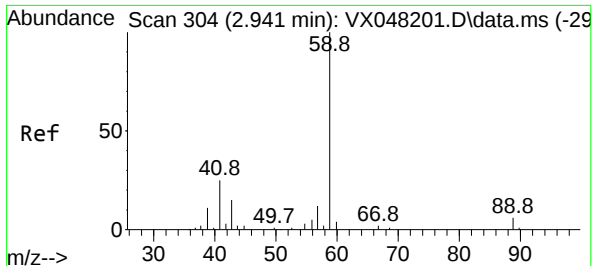
Tgt Ion: 64 Resp: 1245
Ion Ratio Lower Upper
64 100
66 29.3 23.9 35.9



#10
Methyl Iodide
Concen: 0.505 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Tgt Ion: 142 Resp: 595
Ion Ratio Lower Upper
142 100
127 71.4 38.5 57.7#
141 0.0 11.6 17.4#





#11

Tert butyl alcohol

Concen: 2.237 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.000 min

Lab File: VX048208.D

Acq: 17 Oct 2025 13:43

Instrument :

MSVOA_X

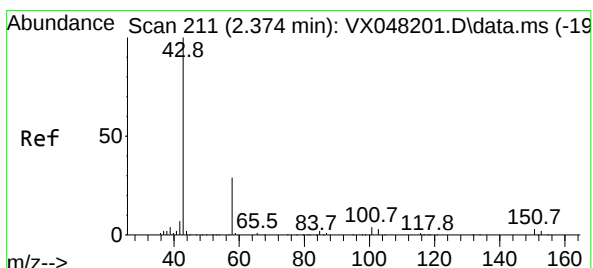
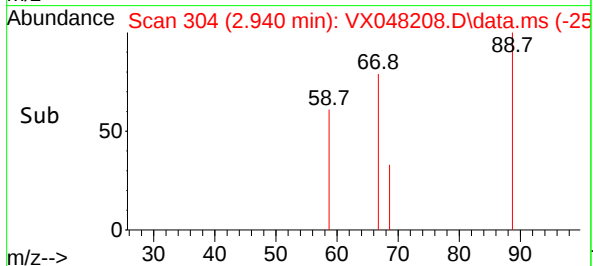
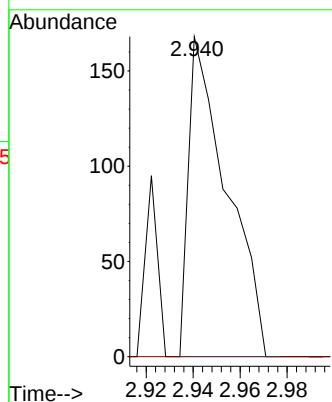
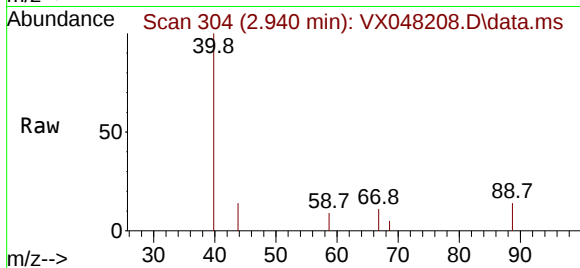
ClientSampleId :

Tgt Ion: 59 Resp: 191

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 4.643 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX048208.D

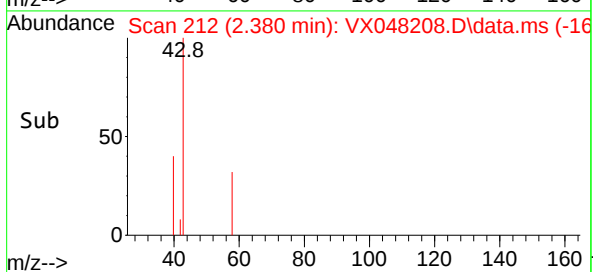
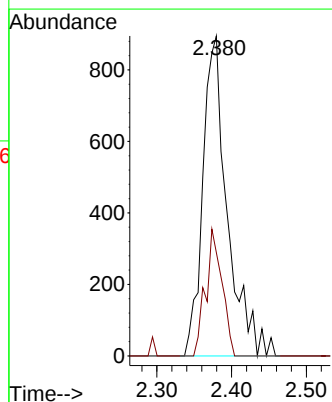
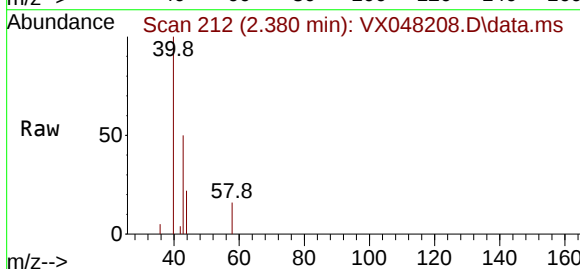
Acq: 17 Oct 2025 13:43

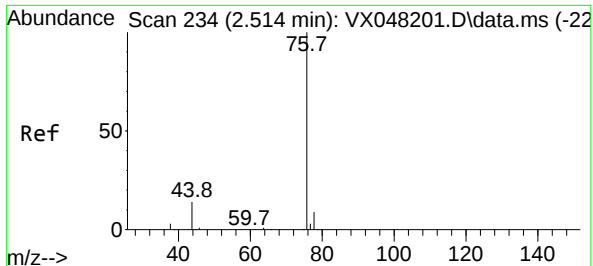
Tgt Ion: 43 Resp: 2038

Ion Ratio Lower Upper

43 100

58 56.7 23.4 35.2#





#17

Carbon Disulfide

Concen: 0.691 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX048208.D

Acq: 17 Oct 2025 13:43

Instrument :

MSVOA_X

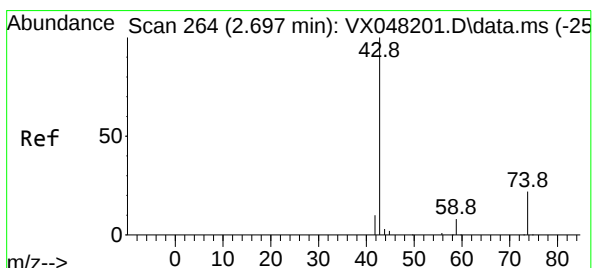
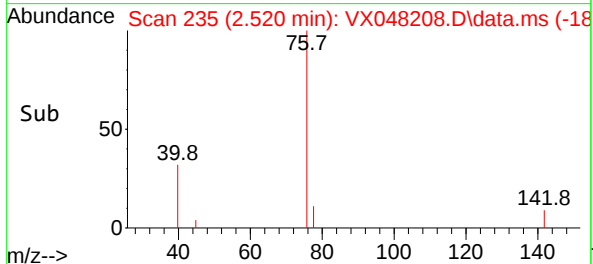
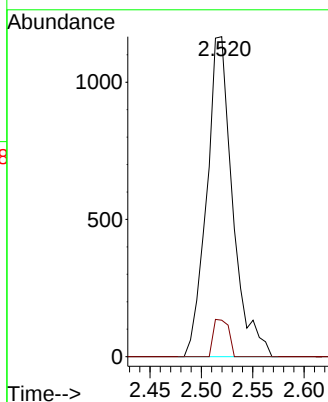
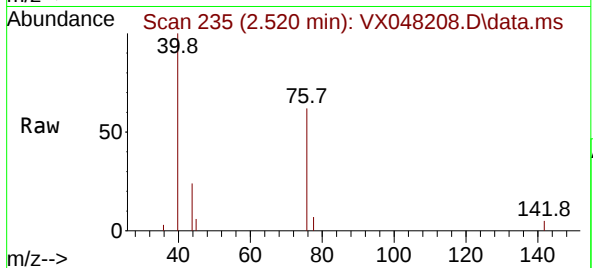
ClientSampleId :

Tgt Ion: 76 Resp: 2047

Ion Ratio Lower Upper

76 100

78 11.4 7.1 10.7#



#18

Methyl Acetate

Concen: 0.387 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.000 min

Lab File: VX048208.D

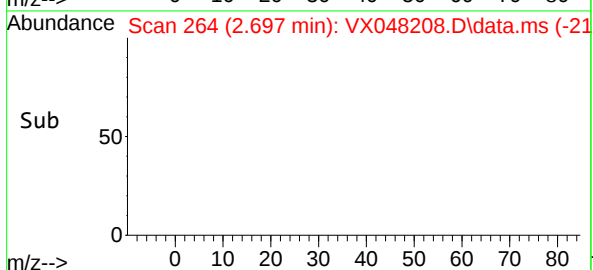
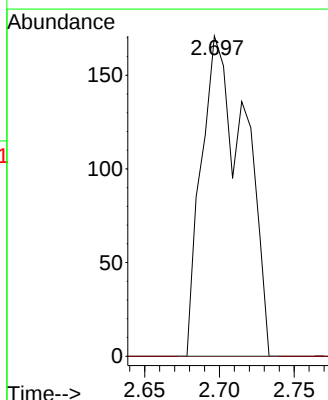
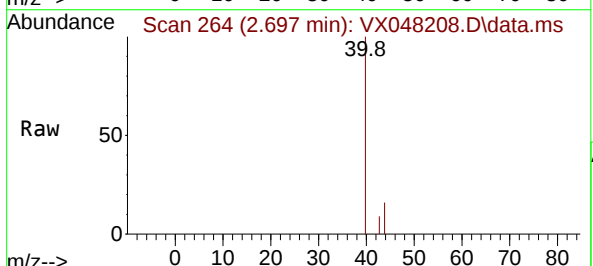
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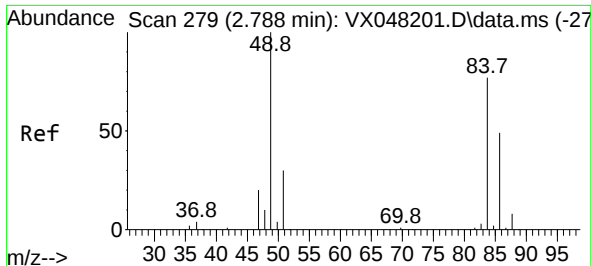
Tgt Ion: 43 Resp: 346

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#





#20

Methylene Chloride

Concen: 0.250 ug/l

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

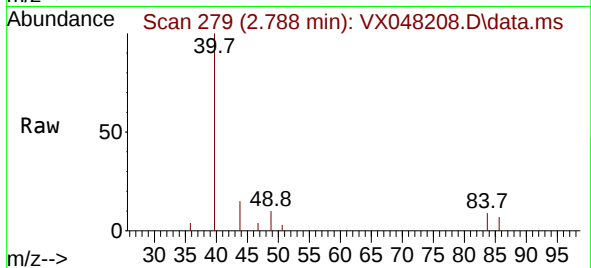
Lab File: VX048208.D

Acq: 17 Oct 2025 13:43

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 267

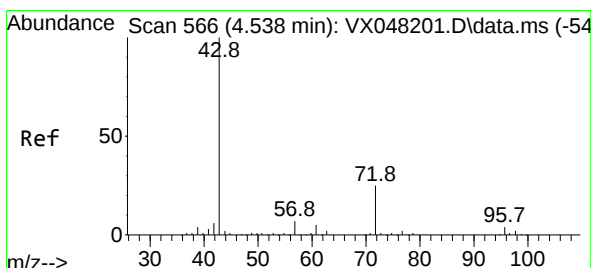
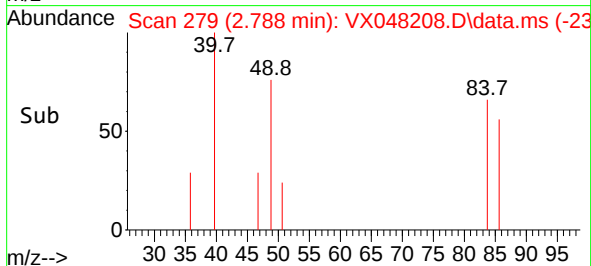
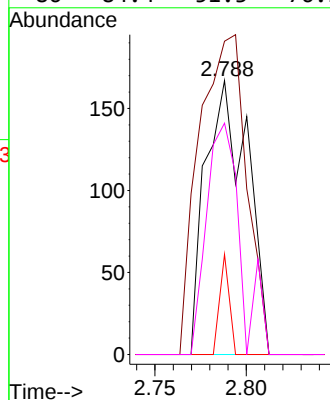
Ion Ratio Lower Upper

84 100

49 114.4 104.1 156.1

51 36.5 31.3 46.9

86 84.4 51.3 76.9#



#25

2-Butanone

Concen: 0.209 ug/l

RT: 4.532 min Scan# 565

Delta R.T. -0.006 min

Lab File: VX048208.D

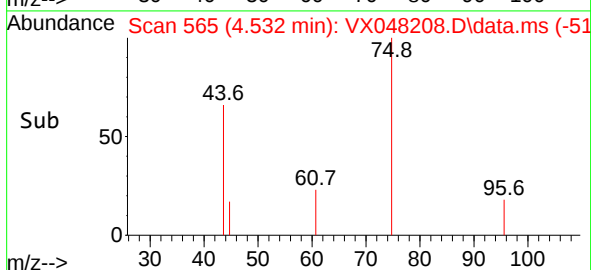
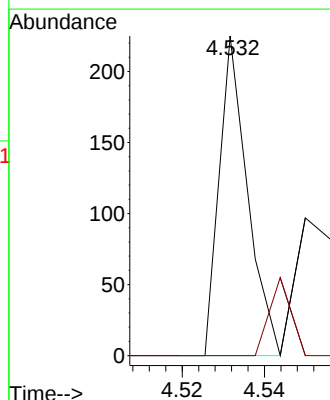
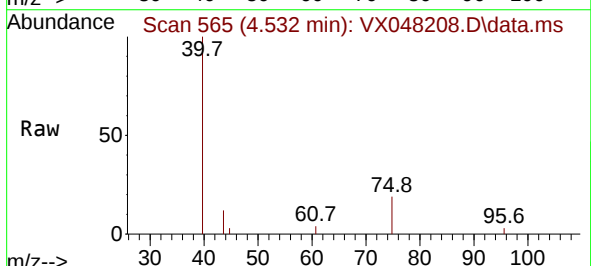
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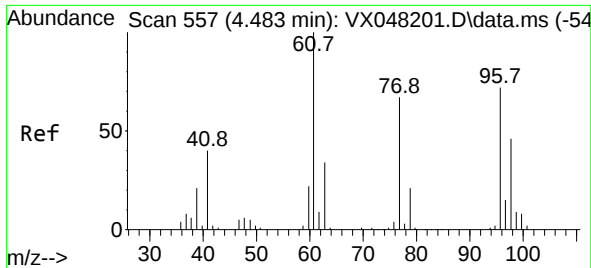
Tgt Ion: 43 Resp: 107

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#





#27

cis-1,2-Dichloroethene

Concen: 0.523 ug/l

RT: 4.477 min Scan# 51

Delta R.T. -0.006 min

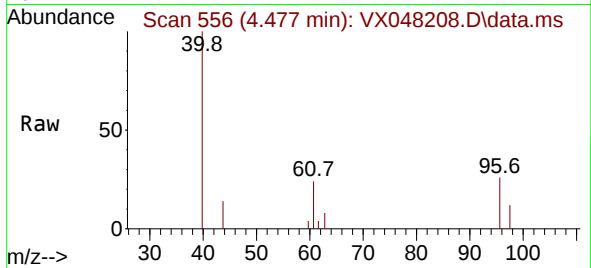
Lab File: VX048208.D

Acq: 17 Oct 2025 13:43

Instrument :

MSVOA_X

ClientSampleId :



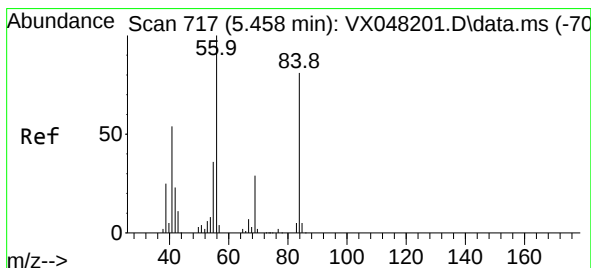
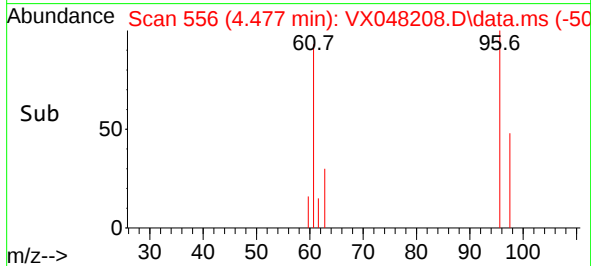
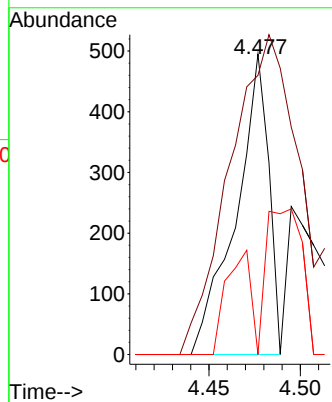
Tgt Ion: 96 Resp: 618

Ion Ratio Lower Upper

96 100

61 249.2 0.0 294.2

98 25.7 0.0 128.4



#31

Cyclohexane

Concen: 0.652 ug/l

RT: 5.531 min Scan# 729

Delta R.T. 0.073 min

Lab File: VX048208.D

Acq: 17 Oct 2025 13:43

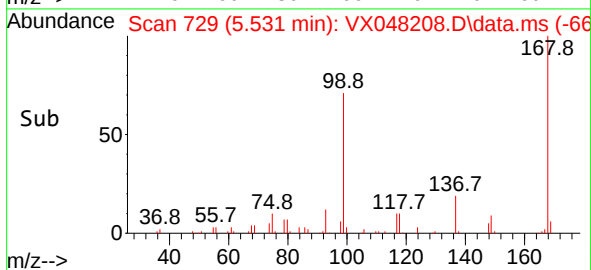
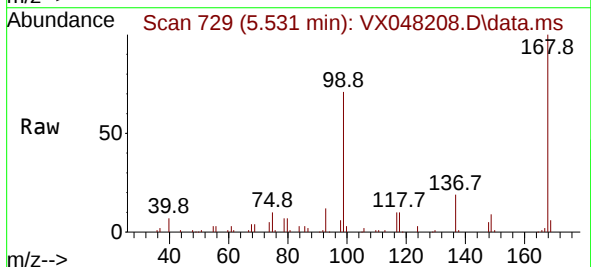
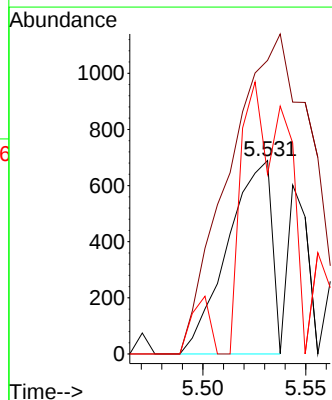
Tgt Ion: 56 Resp: 1026

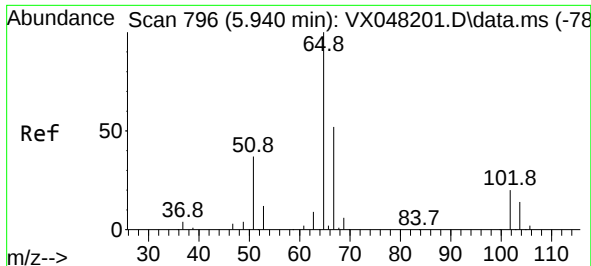
Ion Ratio Lower Upper

56 100

69 151.8 23.0 34.6#

84 92.9 64.6 97.0





#33

1,2-Dichloroethane-d4

Concen: 58.112 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048208.D

Acq: 17 Oct 2025 13:43

Instrument :

MSVOA_X

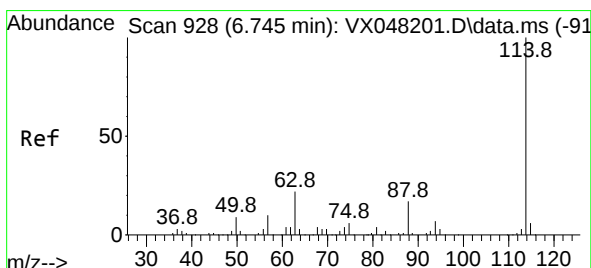
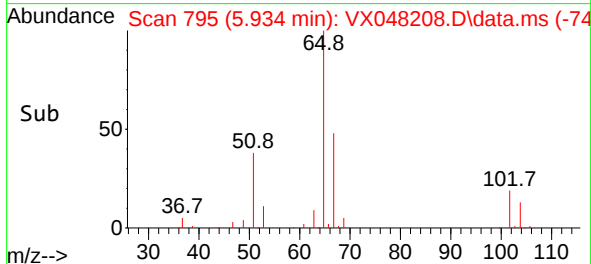
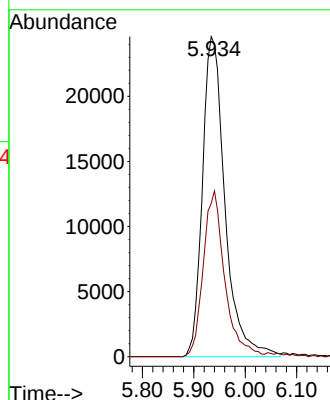
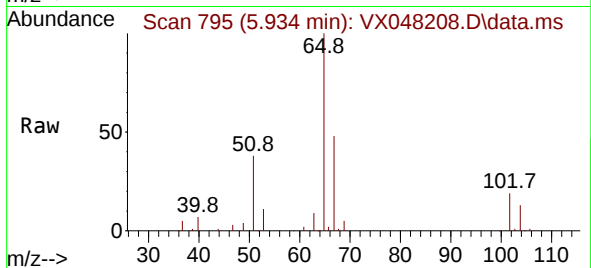
ClientSampleId :

Tgt Ion: 65 Resp: 74775

Ion Ratio Lower Upper

65 100

67 49.3 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048208.D

Acq: 17 Oct 2025 13:43

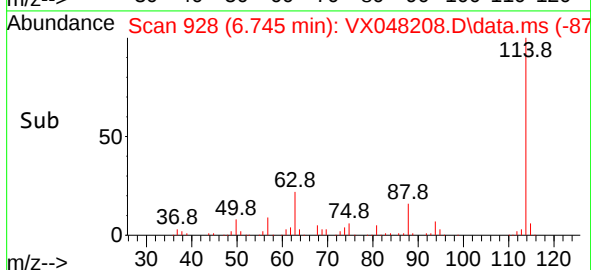
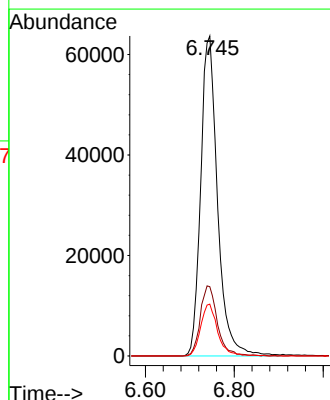
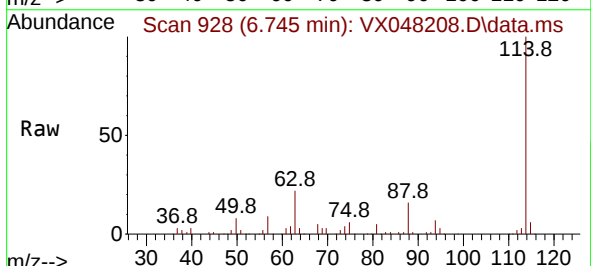
Tgt Ion: 114 Resp: 168187

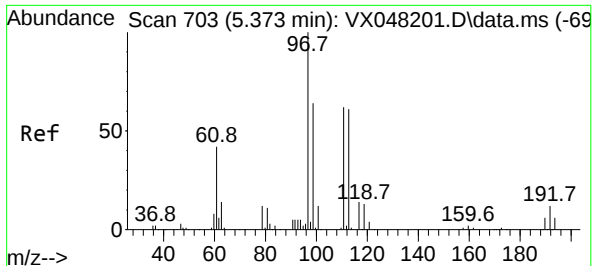
Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.2

88 16.2 0.0 33.6

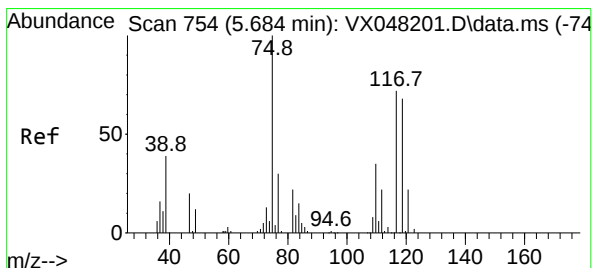
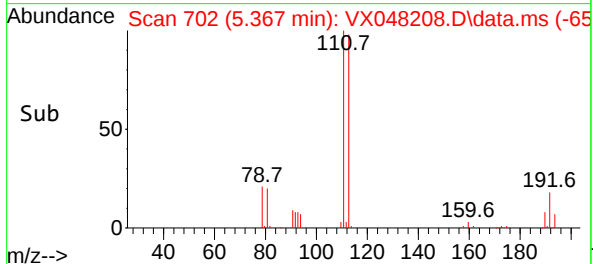
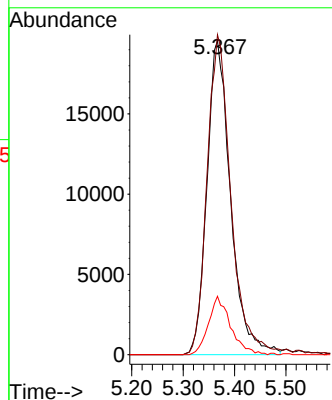
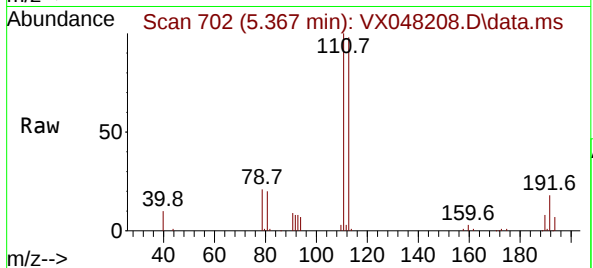




#35
Dibromofluoromethane
Concen: 53.554 ug/l
RT: 5.367 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

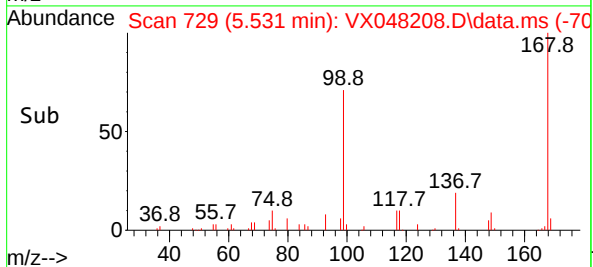
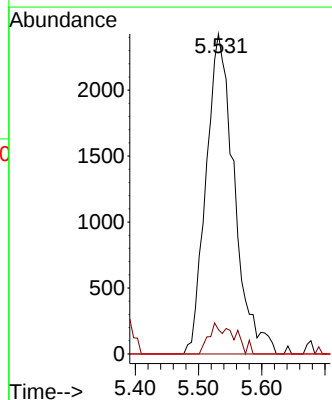
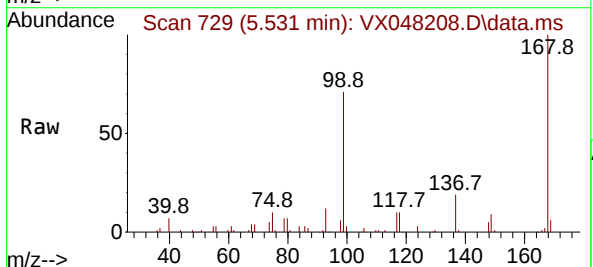
Instrument :
MSVOA_X
ClientSampleId :

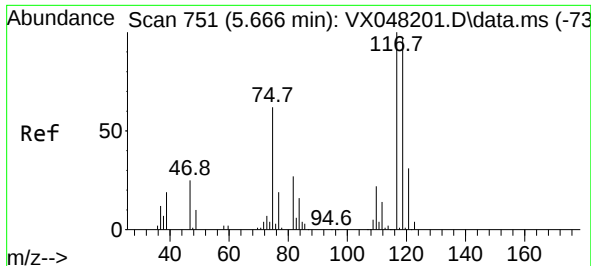
Tgt Ion:113 Resp: 62512
Ion Ratio Lower Upper
113 100
111 103.1 82.2 123.4
192 17.4 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.572 ug/l
RT: 5.531 min Scan# 729
Delta R.T. -0.152 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

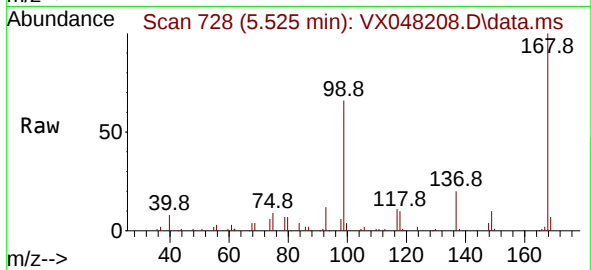
Tgt Ion: 75 Resp: 7518
Ion Ratio Lower Upper
75 100
110 8.6 17.7 53.1#
77 0.0 24.3 36.5#



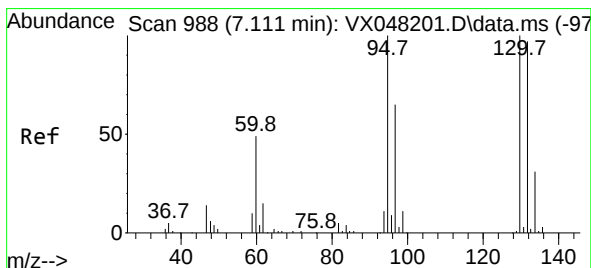
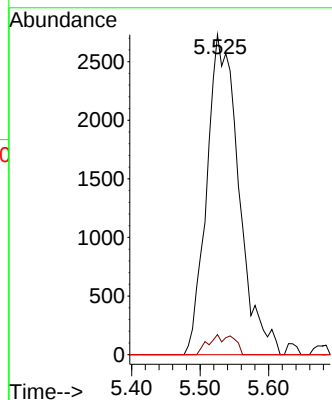
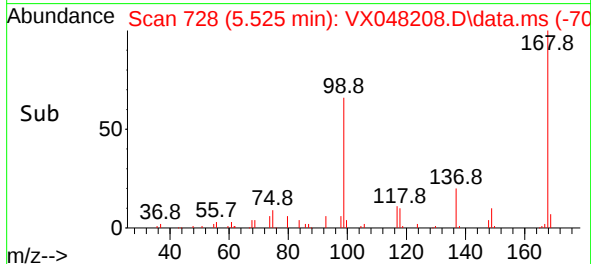


#38
Carbon Tetrachloride
Concen: 4.700 ug/l
RT: 5.525 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :

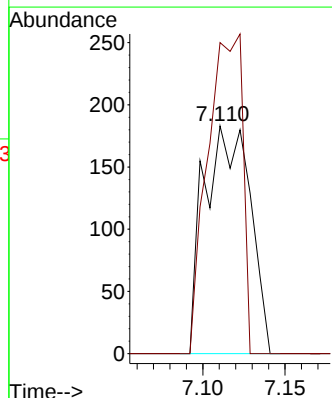
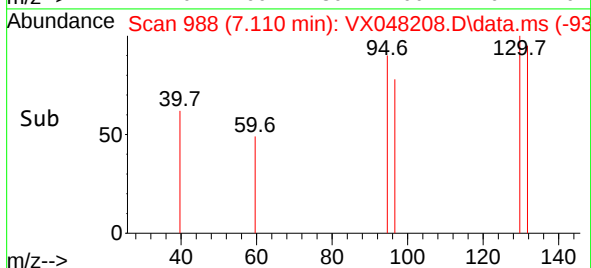
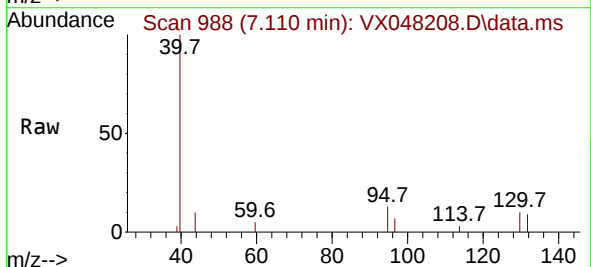


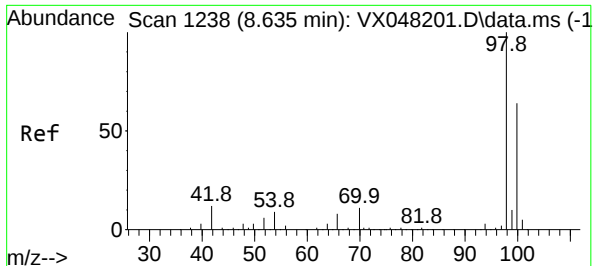
Tgt Ion:117 Resp: 8870
Ion Ratio Lower Upper
117 100
119 6.3 77.2 115.8#
121 0.0 24.8 37.2#



#44
Trichloroethene
Concen: 0.290 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Tgt Ion:130 Resp: 357
Ion Ratio Lower Upper
130 100
95 136.6 0.0 200.6

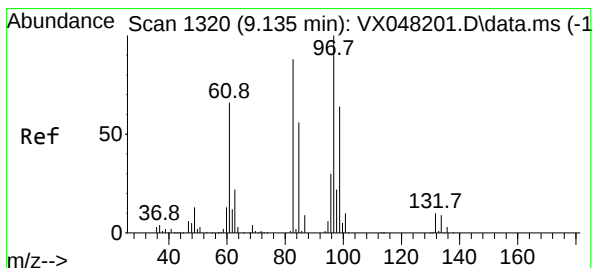
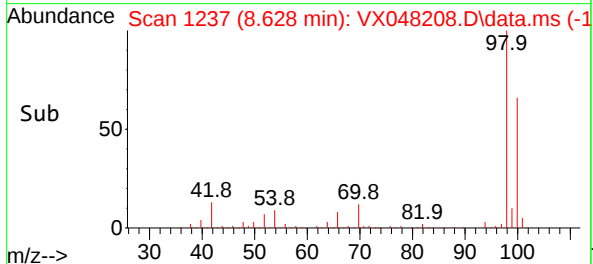
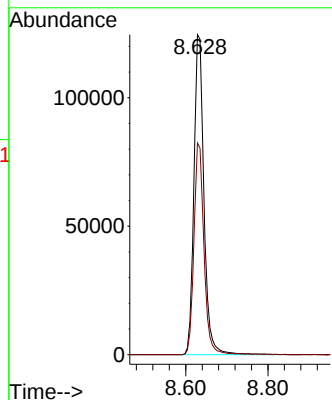
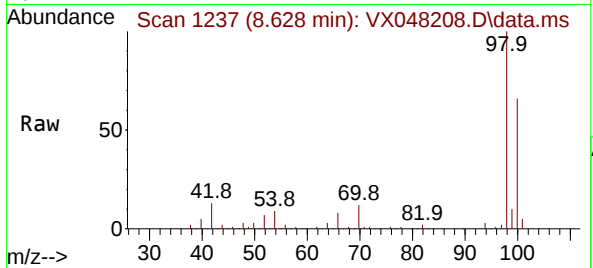




#50
Toluene-d8
Concen: 50.200 ug/l
RT: 8.628 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

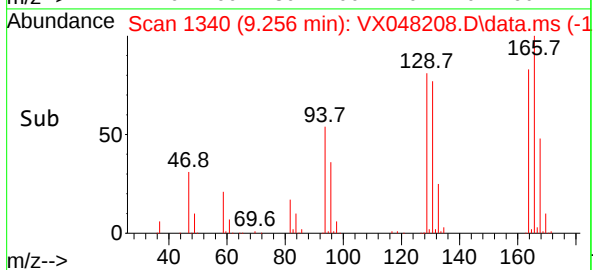
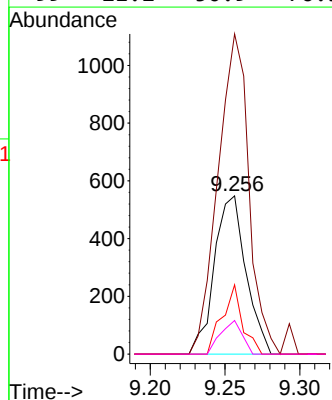
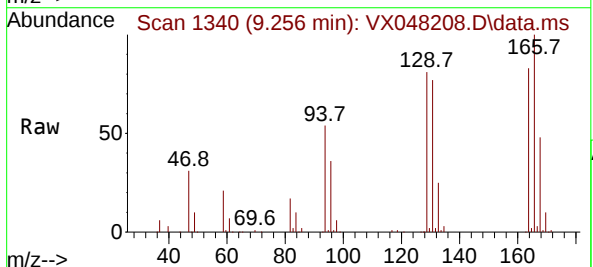
Instrument :
MSVOA_X
ClientSampleId :

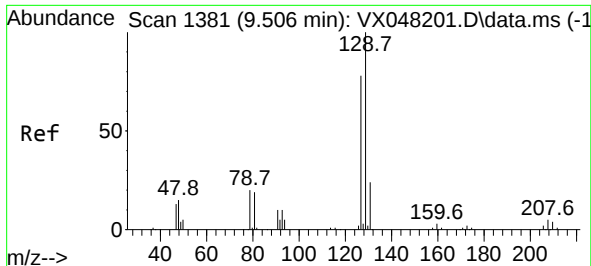
Tgt Ion: 98 Resp: 211099
Ion Ratio Lower Upper
98 100
100 66.1 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 0.734 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. 0.122 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Tgt Ion: 97 Resp: 804
Ion Ratio Lower Upper
97 100
83 202.4 70.6 105.8#
85 43.8 45.0 67.6#
99 21.2 50.9 76.3#

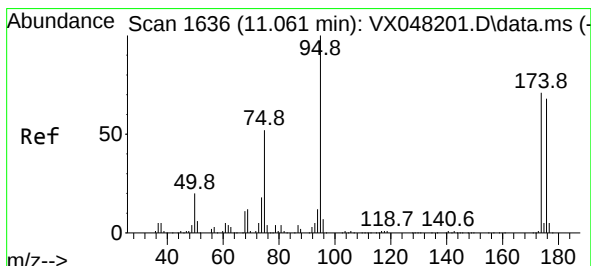
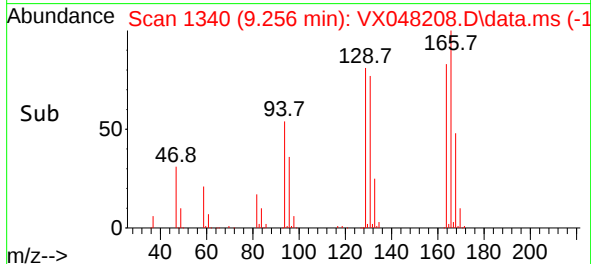
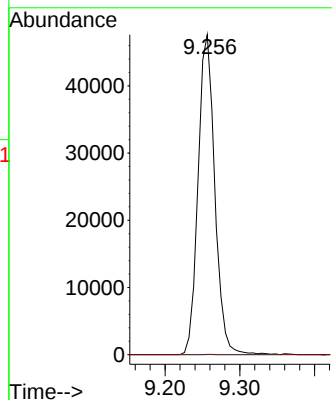
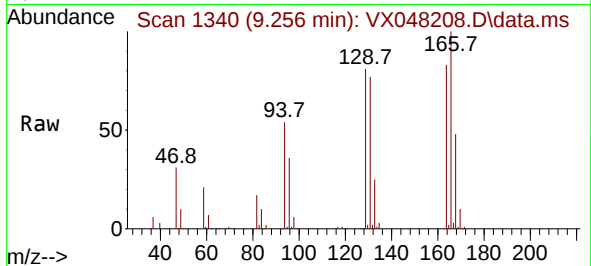




#60
Dibromochloromethane
Concen: 53.934 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

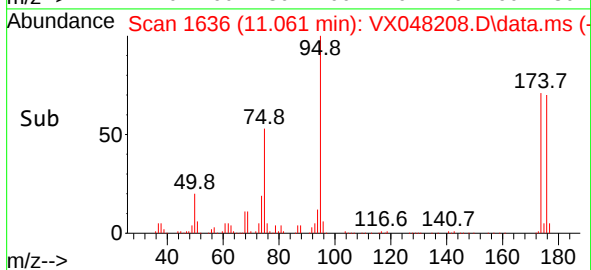
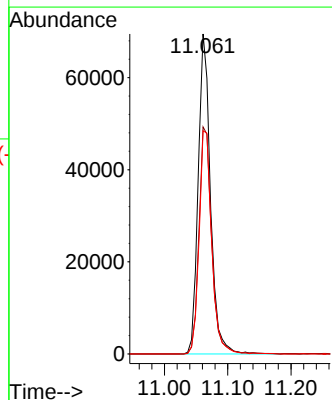
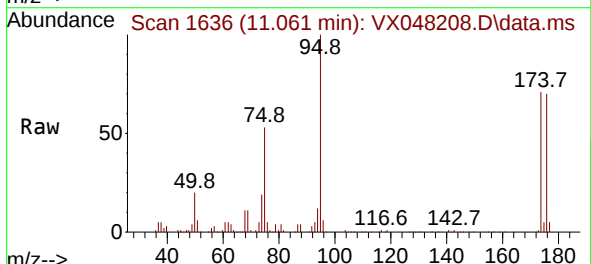
Instrument :
MSVOA_X
ClientSampleId :

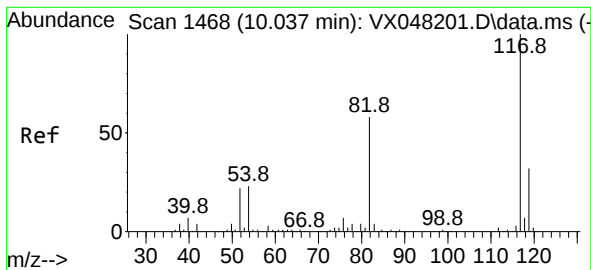
Tgt Ion:129 Resp: 73920
Ion Ratio Lower Upper
129 100
127 0.1 38.6 115.7#



#62
4-Bromofluorobenzene
Concen: 61.393 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

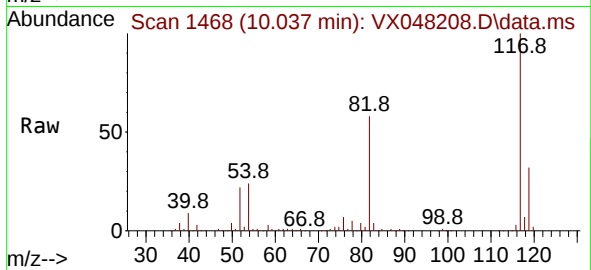
Tgt Ion: 95 Resp: 94031
Ion Ratio Lower Upper
95 100
174 73.6 0.0 147.8
176 71.9 0.0 142.8



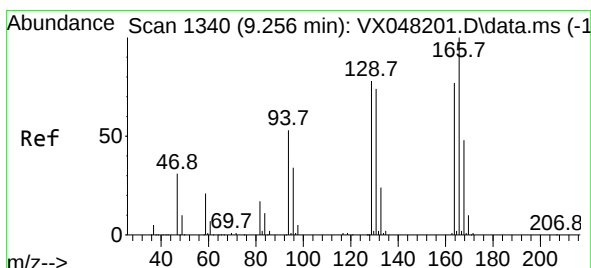
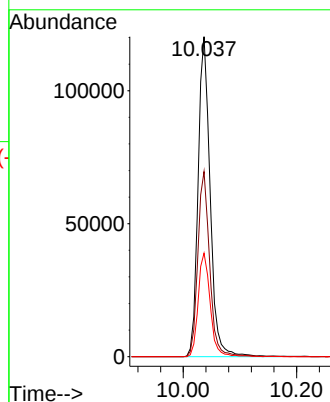
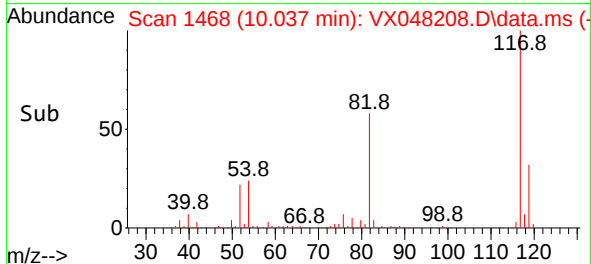


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :

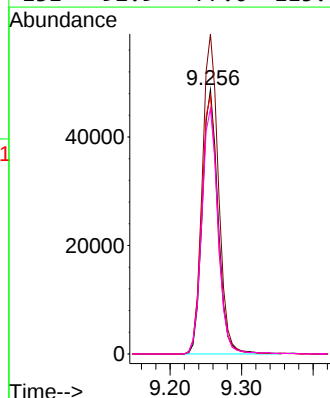
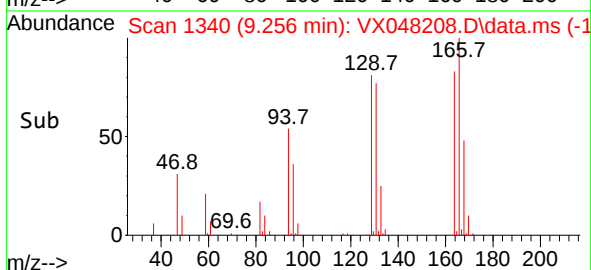
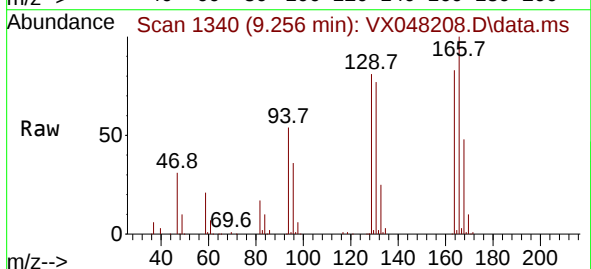


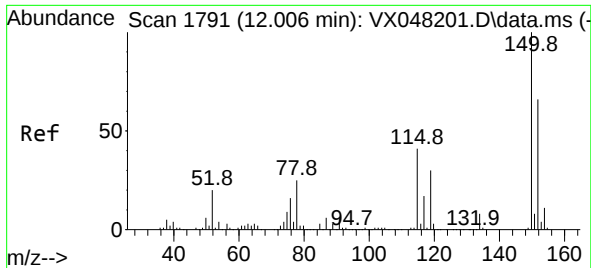
Tgt Ion:117 Resp: 177290
Ion Ratio Lower Upper
117 100
82 57.9 46.5 69.7
119 32.3 25.9 38.9



#64
Tetrachloroethene
Concen: 59.941 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

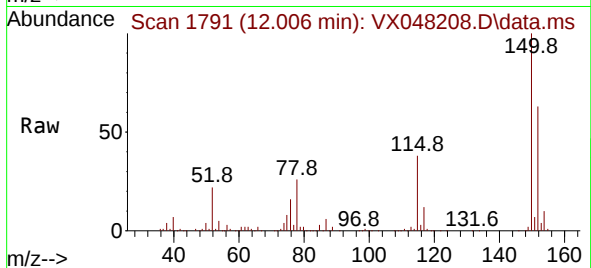
Tgt Ion:164 Resp: 74512
Ion Ratio Lower Upper
164 100
166 121.1 104.5 156.7
129 97.7 81.8 122.6
131 92.9 77.0 115.6



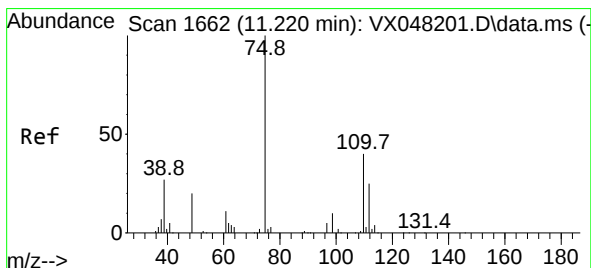
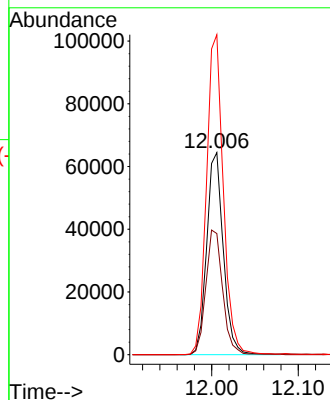
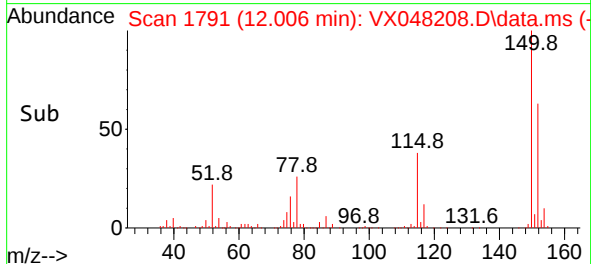


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048208.D
 Acq: 17 Oct 2025 13:43

Instrument :
 MSVOA_X
 ClientSampleId :

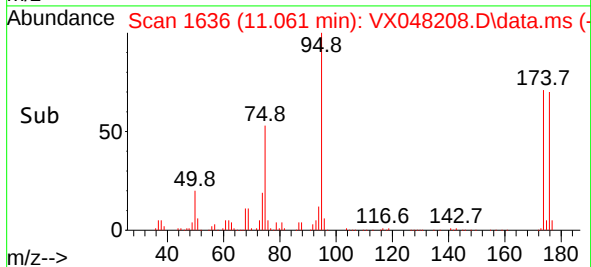
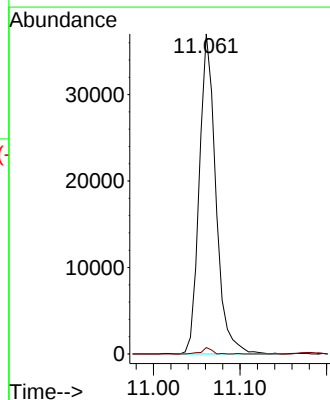
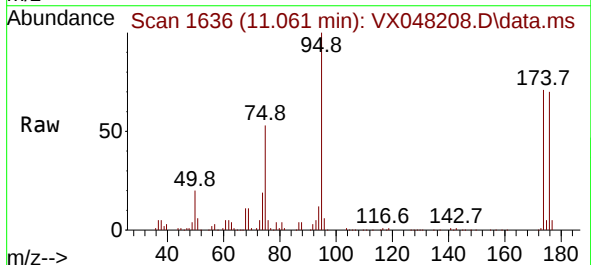


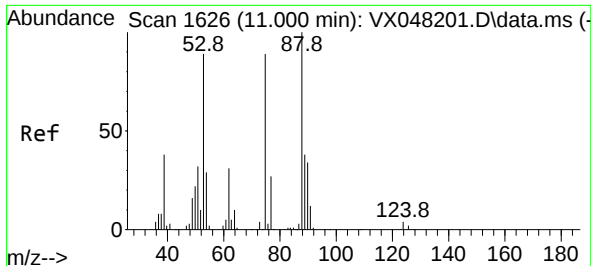
Tgt Ion:152 Resp: 85687
 Ion Ratio Lower Upper
 152 100
 115 62.8 43.1 129.4
 150 160.2 0.0 353.0



#76
 1,2,3-Trichloropropane
 Concen: 37.613 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048208.D
 Acq: 17 Oct 2025 13:43

Tgt Ion: 75 Resp: 49216
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.4 67.2#

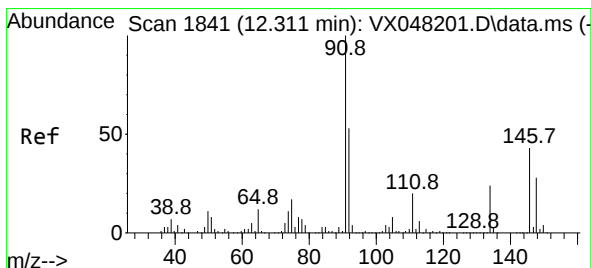
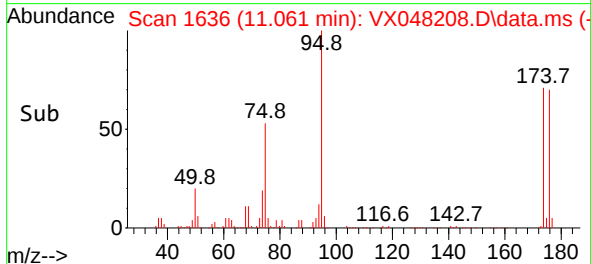
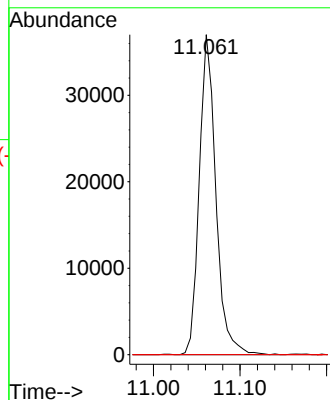
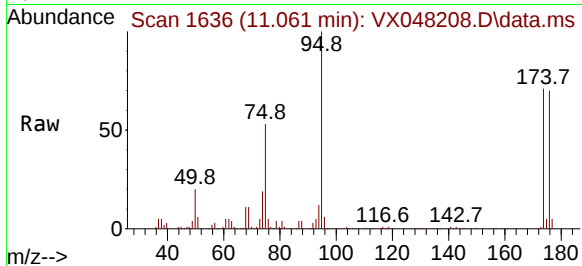




#81
trans-1,4-Dichloro-2-butene
Concen: 92.101 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

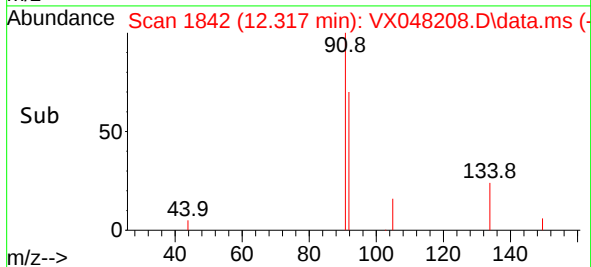
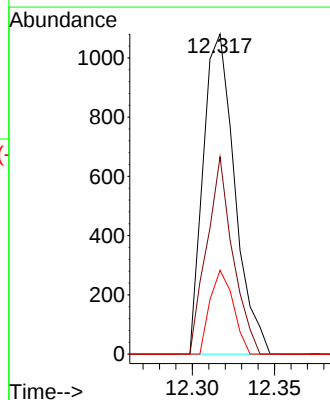
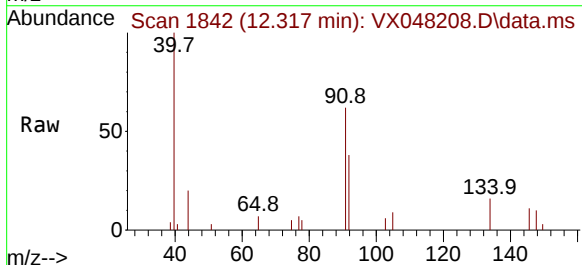
Instrument :
MSVOA_X
ClientSampleId :

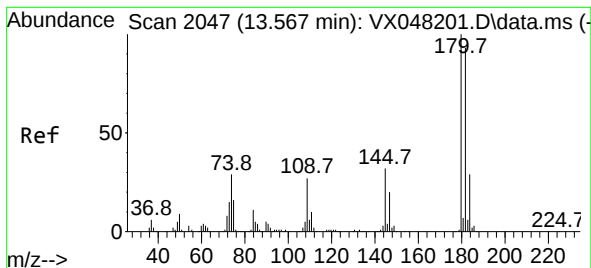
Tgt Ion: 75 Resp: 49216
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#89
n-Butylbenzene
Concen: 0.303 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Tgt Ion: 91 Resp: 1436
Ion Ratio Lower Upper
91 100
92 51.0 26.9 80.6
134 19.2 12.7 38.1





#93

1,2,4-Trichlorobenzene

Concen: 0.427 ug/l

RT: 13.573 min Scan# 2047

Delta R.T. 0.006 min

Lab File: VX048208.D

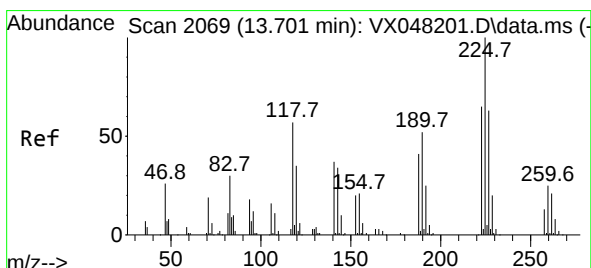
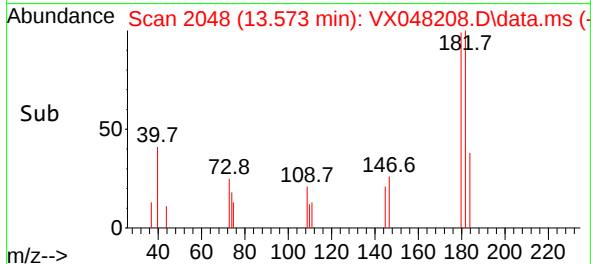
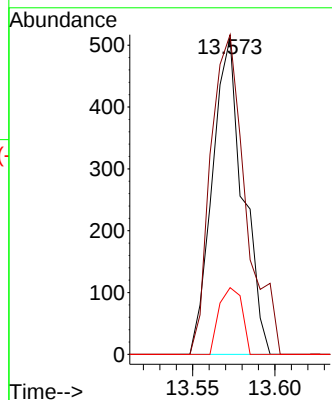
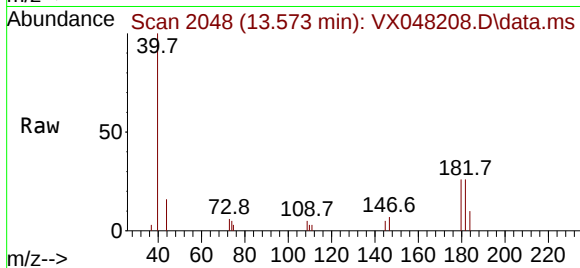
Acq: 17 Oct 2025 13:43

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	180	Resp:	665
Ion	Ratio	Lower	Upper
180	100		
182	115.5	47.3	142.0
145	15.8	16.3	48.9



#94

Hexachlorobutadiene

Concen: 1.248 ug/l

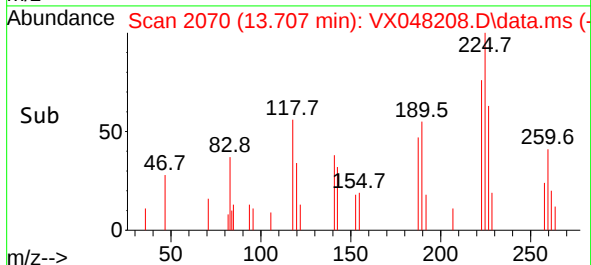
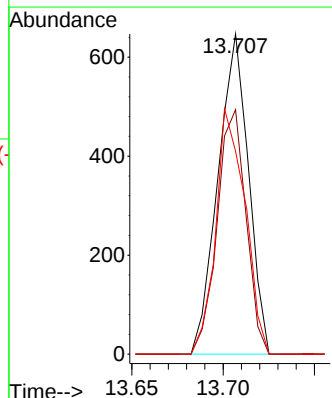
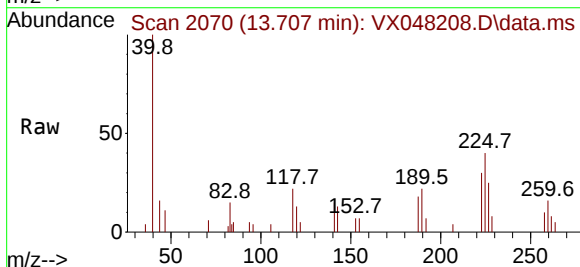
RT: 13.707 min Scan# 2070

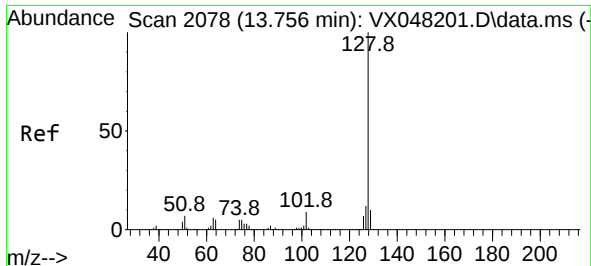
Delta R.T. 0.006 min

Lab File: VX048208.D

Acq: 17 Oct 2025 13:43

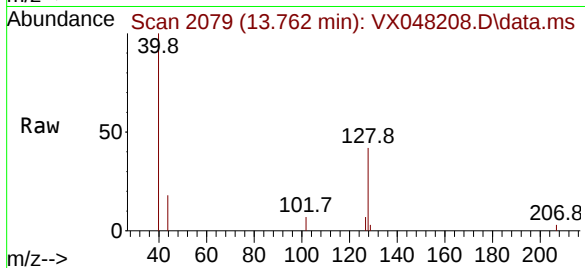
Tgt Ion:	225	Resp:	749
Ion	Ratio	Lower	Upper
225	100		
223	72.4	32.6	97.7
227	73.8	32.5	97.4



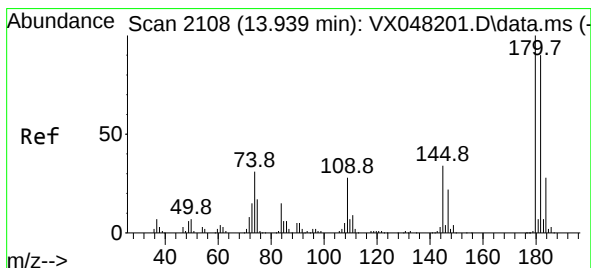
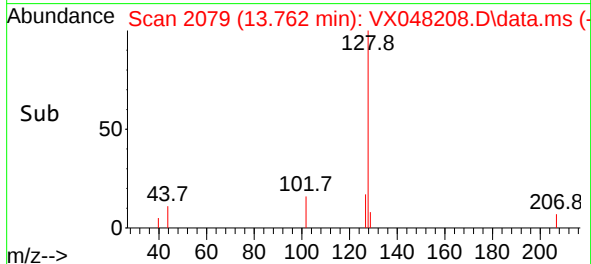
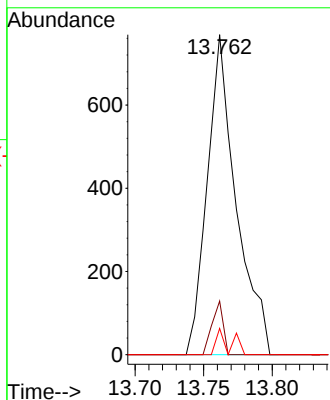


#95
Naphthalene
Concen: 0.275 ug/l
RT: 13.762 min Scan# 2078
Delta R.T. 0.006 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 1128
Ion Ratio Lower Upper
128 100
127 6.4 10.2 15.4#
129 3.7 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.341 ug/l
RT: 13.951 min Scan# 2110
Delta R.T. 0.012 min
Lab File: VX048208.D
Acq: 17 Oct 2025 13:43

Tgt Ion:180 Resp: 489
Ion Ratio Lower Upper
180 100
182 97.5 46.6 139.7
145 16.0 16.9 50.7#

