

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV080825\
 Data File : VV038931.D
 Acq On : 08 Aug 2025 12:21
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK

Quant Time: Aug 11 05:32:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V080825W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 11 05:27:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.600	168	408222	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	749692	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	679727	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	295243	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	335260	57.107	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	114.220%
35) Dibromofluoromethane	4.500	113	289336	50.872	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	101.740%
50) Toluene-d8	7.236	98	928022	47.113	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	94.220%
62) 4-Bromofluorobenzene	10.001	95	277180	39.072	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	78.140%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.124	85	214	0.078	ug/l #	42
4) Vinyl Chloride	1.294	62	394	0.122	ug/l #	12
5) Bromomethane	1.481	94	237	0.094	ug/l #	5
6) Chloroethane	1.568	64	42	0.018	ug/l #	44
7) Trichlorofluoromethane	1.725	101	484	0.076	ug/l	99
8) Diethyl Ether	1.979	74	66	0.028	ug/l	63
9) 1,1,2-Trichlorotrifluo...	2.082	101	434	0.107	ug/l #	84
12) 1,1-Dichloroethene	2.092	96	251	0.074	ug/l #	55
14) Allyl chloride	2.349	41	353	0.060	ug/l #	31
19) Methyl tert-butyl Ether	2.716	73	664	0.048	ug/l #	55
22) Diisopropyl ether	3.214	45	274	0.023	ug/l #	62
23) Vinyl Acetate	3.214	43	935	0.105	ug/l #	69
24) 1,1-Dichloroethane	3.114	63	446	0.058	ug/l #	83
25) 2-Butanone	3.880	43	159	0.059	ug/l #	45
26) 2,2-Dichloropropane	3.812	77	21	0.003	ug/l #	54
27) cis-1,2-Dichloroethene	3.834	96	507	0.115	ug/l	46
29) Tetrahydrofuran	4.233	42	108	0.062	ug/l #	29
30) Chloroform	4.285	83	437	0.052	ug/l #	17
32) 1,1,1-Trichloroethane	4.503	97	43	0.006	ug/l #	26
37) Ethyl Acetate	3.976	43	121	0.018	ug/l #	87
39) Methylcyclohexane	6.053	83	489	0.089	ug/l #	59
40) Benzene	5.031	78	818	0.049	ug/l	94
41) Methacrylonitrile	4.111	41	65	0.024	ug/l #	31
42) 1,2-Dichloroethane	5.040	62	440	0.068	ug/l	85
43) Isopropyl Acetate	5.201	43	140	0.015	ug/l #	58
44) Trichloroethene	5.838	130	74	0.017	ug/l	91
45) 1,2-Dichloropropane	6.098	63	106	0.023	ug/l #	43
46) Dibromomethane	6.265	93	417	0.121	ug/l #	62
47) Bromodichloromethane	6.455	83	79	0.010	ug/l #	26
48) Methyl methacrylate	6.291	41	78	0.019	ug/l #	23
51) 4-Methyl-2-Pentanone	7.133	43	228	0.035	ug/l #	33
52) Toluene	7.317	92	683	0.065	ug/l	93
53) t-1,3-Dichloropropene	7.561	75	48	0.007	ug/l #	1
54) cis-1,3-Dichloropropene	6.966	75	45	0.006	ug/l #	39
55) 1,1,2-Trichloroethane	7.789	97	245	0.048	ug/l #	16
57) 1,3-Dichloropropane	7.973	76	139	0.018	ug/l #	1

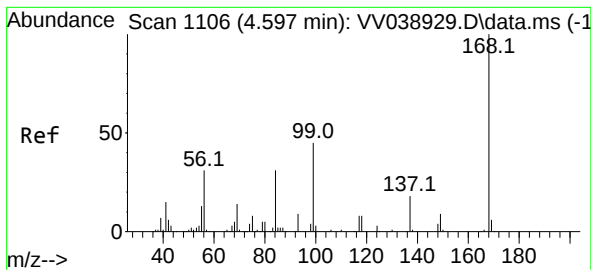
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 2-Chloroethyl Vinyl ether	6.815	63	75	0.025	ug/l #	45
59) 2-Hexanone	7.966	43	73	0.016	ug/l	64
60) Dibromochloromethane	8.185	129	251	0.040	ug/l #	45
61) 1,2-Dibromoethane	8.297	107	267	0.052	ug/l	93
64) Tetrachloroethene	7.915	164	580	0.145	ug/l #	64
65) Chlorobenzene	8.809	112	1473	0.111	ug/l #	87
67) Ethyl Benzene	8.963	91	1114	0.057	ug/l	97
68) m/p-Xylenes	9.088	106	736	0.098	ug/l #	50
69) o-Xylene	9.487	106	136	0.019	ug/l	84
70) Styrene	9.548	104	425	0.033	ug/l #	52
71) Bromoform	9.680	173	448	0.102	ug/l #	65
73) Isopropylbenzene	9.866	105	1097	0.071	ug/l	85
74) N-amyl acetate	9.709	43	19	0.004	ug/l #	39
75) 1,1,2,2-Tetrachloroethane	10.185	83	260	0.039	ug/l #	66
77) Bromobenzene	10.159	156	414	0.100	ug/l #	65
78) n-propylbenzene	10.503	91	2046	0.113	ug/l	92
79) 2-Chlorotoluene	10.580	91	121	0.011	ug/l	98
80) 1,3,5-Trimethylbenzene	10.477	105	1272	0.098	ug/l #	50
82) 4-Chlorotoluene	10.503	91	2046	0.157	ug/l	75
83) tert-Butylbenzene	10.792	119	1387	0.100	ug/l #	93
84) 1,2,4-Trimethylbenzene	10.860	105	557	0.043	ug/l #	53
85) sec-Butylbenzene	11.017	105	2087	0.119	ug/l	100
86) p-Isopropyltoluene	11.172	119	2704	0.177	ug/l #	46
90) Hexachloroethane	11.821	117	188	0.052	ug/l #	49
91) 1,2-Dichlorobenzene	11.580	146	606	0.074	ug/l #	31
92) 1,2-Dibromo-3-Chloropr...	12.361	75	22	0.015	ug/l #	2

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 11

Delta R.T. 0.003 min

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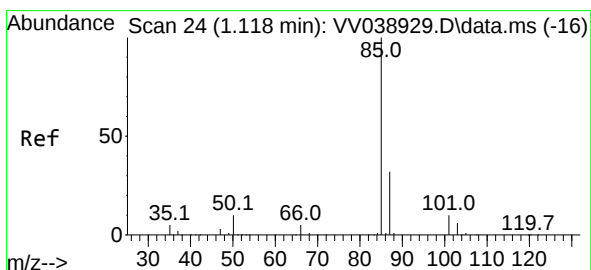
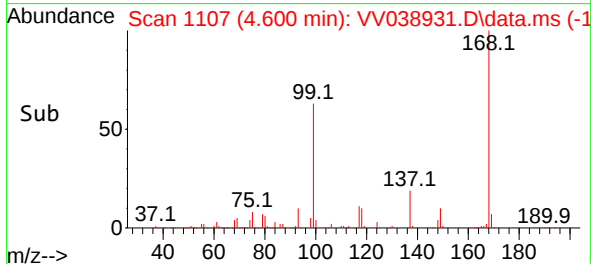
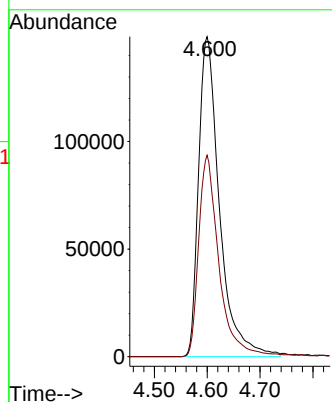
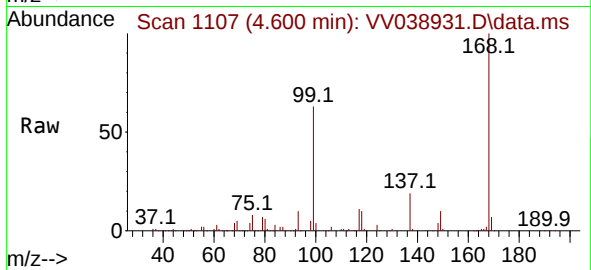
VIBLK

Tgt Ion:168 Resp: 408222

Ion Ratio Lower Upper

168 100

99 62.9 47.3 70.9



#2

Dichlorodifluoromethane

Concen: 0.078 ug/l

RT: 1.124 min Scan# 26

Delta R.T. 0.006 min

Lab File: VV038931.D

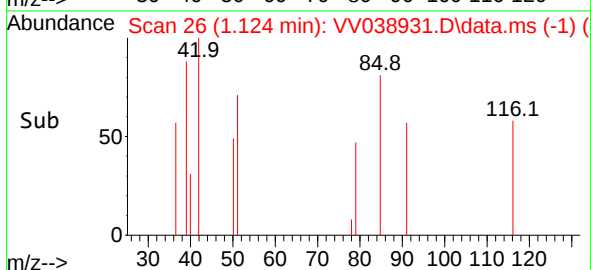
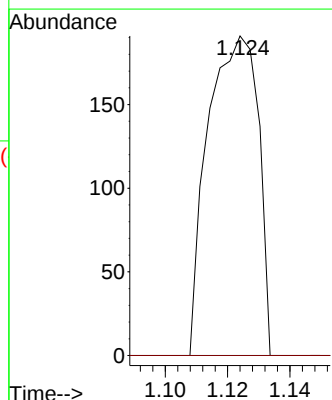
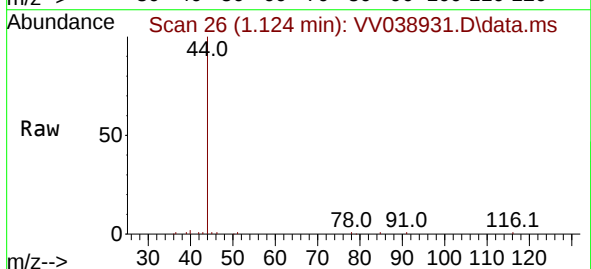
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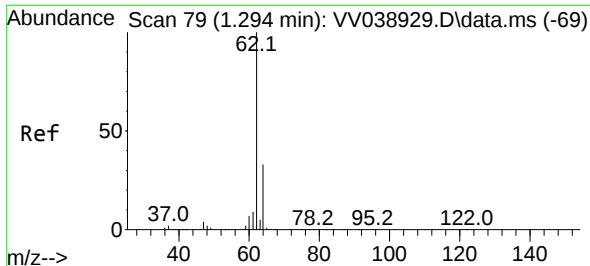
Tgt Ion: 85 Resp: 214

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.6#

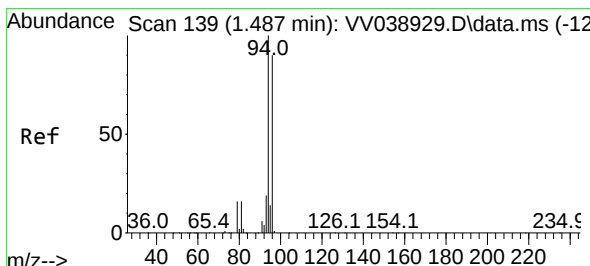
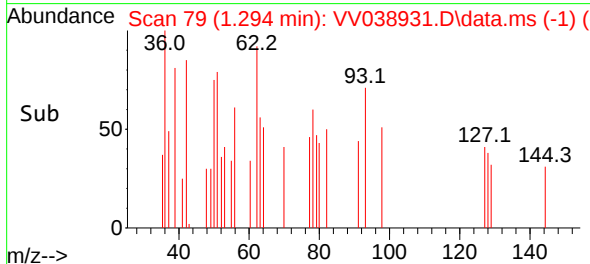
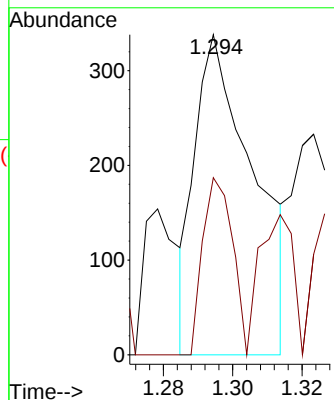
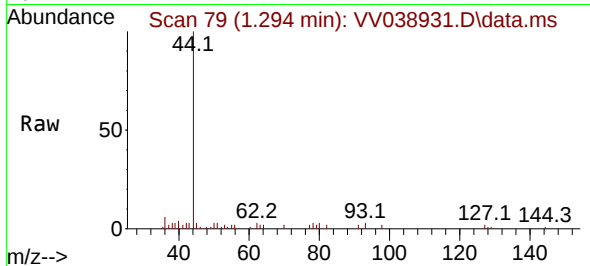




#4
 Vinyl Chloride
 Concen: 0.122 ug/l
 RT: 1.294 min Scan# 79
 Delta R.T. -0.000 min
 Lab File: VV038931.D
 Acq: 08 Aug 2025 12:21

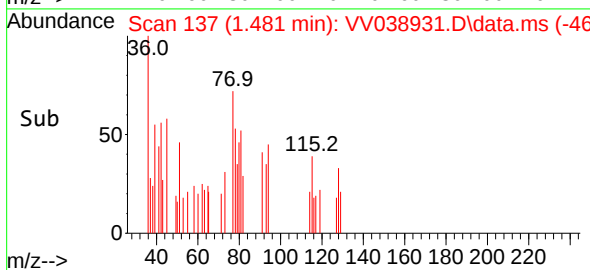
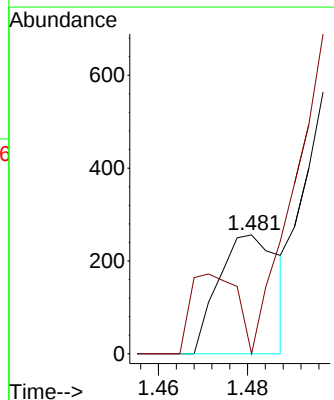
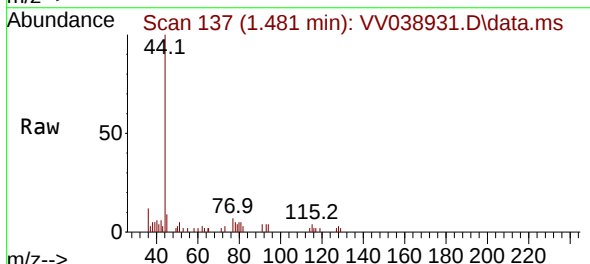
Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK

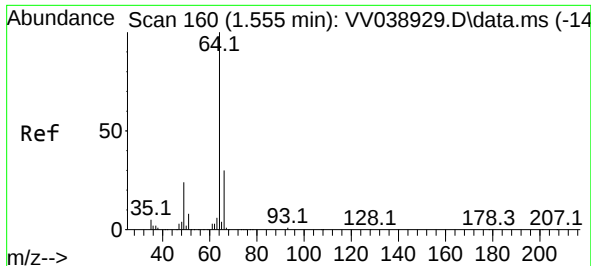
Tgt Ion: 62 Resp: 394
 Ion Ratio Lower Upper
 62 100
 64 83.1 26.6 40.0#



#5
 Bromomethane
 Concen: 0.094 ug/l
 RT: 1.481 min Scan# 137
 Delta R.T. -0.006 min
 Lab File: VV038931.D
 Acq: 08 Aug 2025 12:21

Tgt Ion: 94 Resp: 237
 Ion Ratio Lower Upper
 94 100
 96 0.0 71.8 107.8#

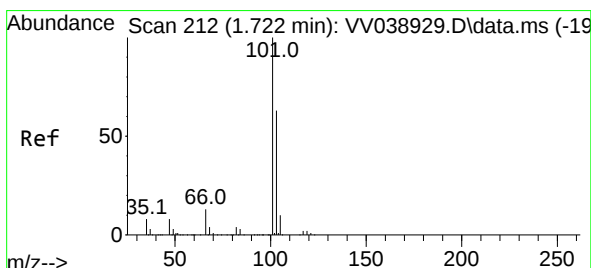
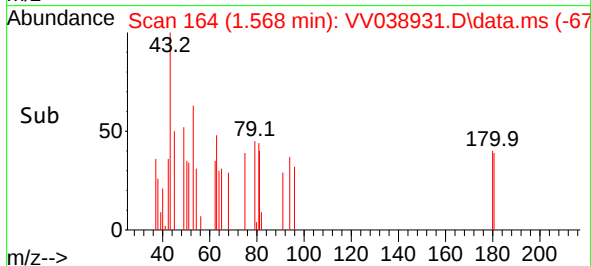
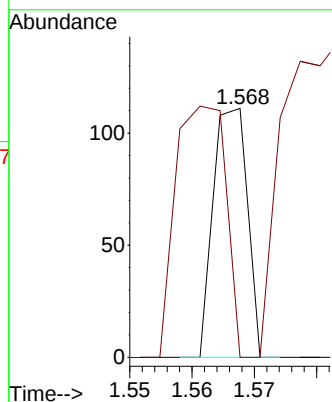
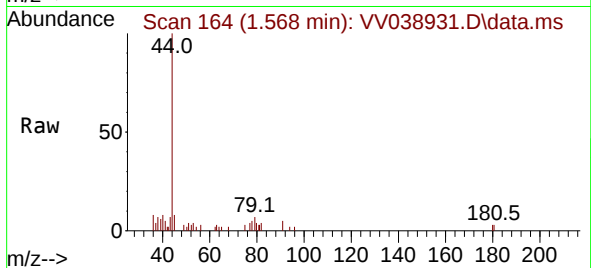




#6
Chloroethane
Concen: 0.018 ug/l
RT: 1.568 min Scan# 1
Delta R.T. 0.013 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

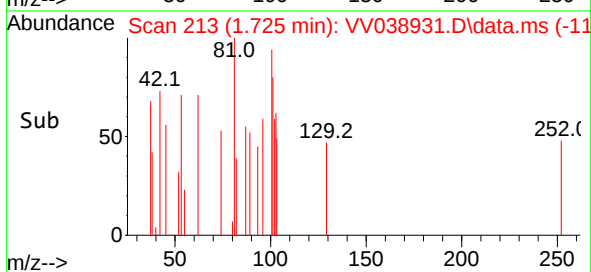
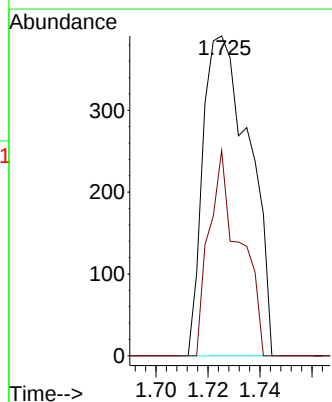
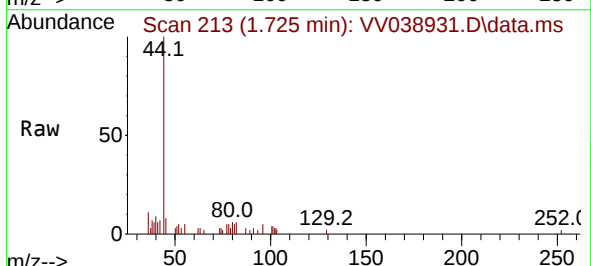
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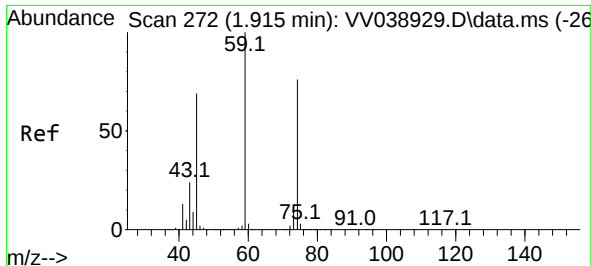
Tgt Ion: 64 Resp: 42
Ion Ratio Lower Upper
64 100
66 0.0 24.3 36.5#



#7
Trichlorofluoromethane
Concen: 0.076 ug/l
RT: 1.725 min Scan# 213
Delta R.T. 0.003 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion:101 Resp: 484
Ion Ratio Lower Upper
101 100
103 64.2 50.8 76.2

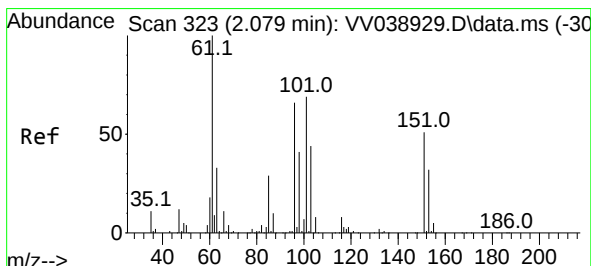
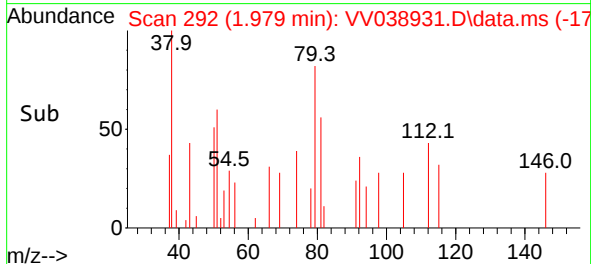
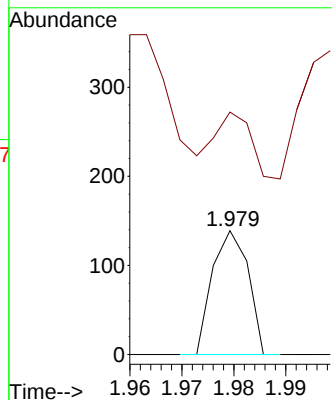
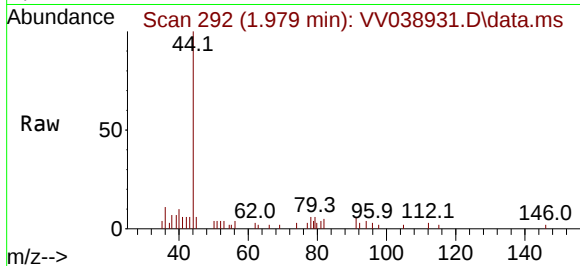




#8
Diethyl Ether
Concen: 0.028 ug/l
RT: 1.979 min Scan# 241
Delta R.T. 0.064 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

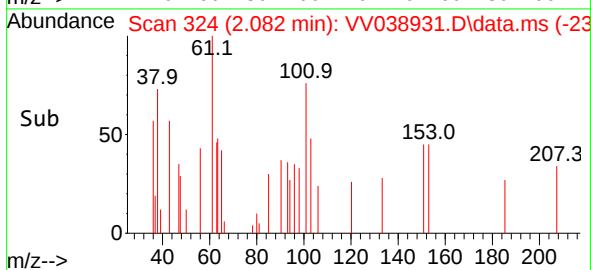
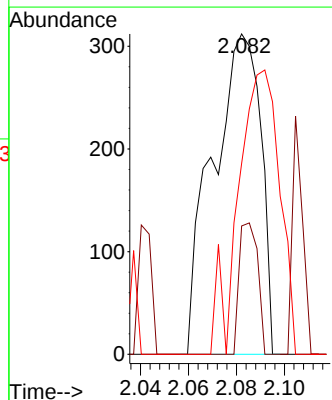
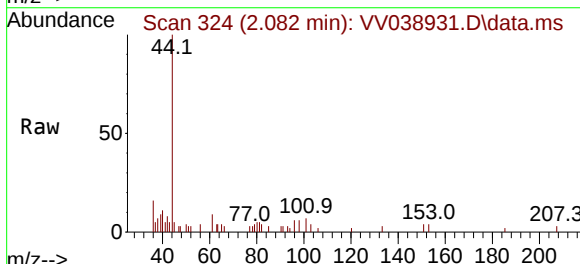
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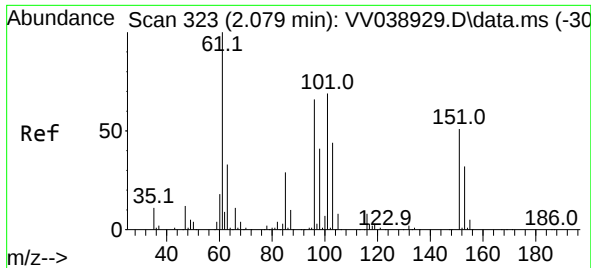
Tgt Ion: 74 Resp: 66
Ion Ratio Lower Upper
74 100
45 54.5 44.8 134.4



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.107 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.003 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion:101 Resp: 434
Ion Ratio Lower Upper
101 100
85 15.9 35.1 52.7#
151 76.5 60.6 91.0

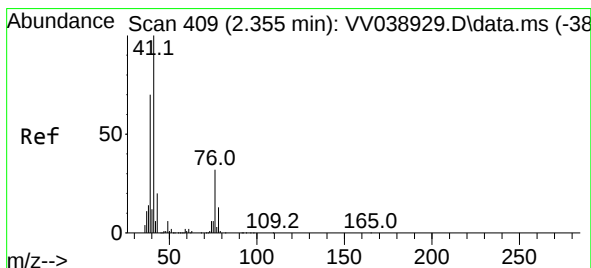
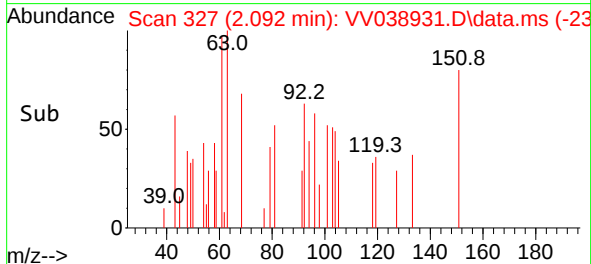
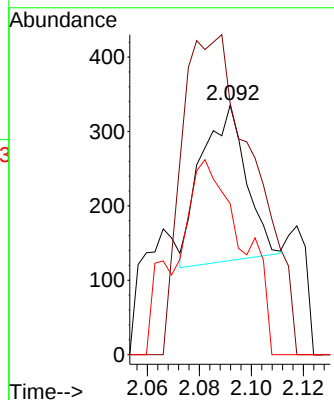
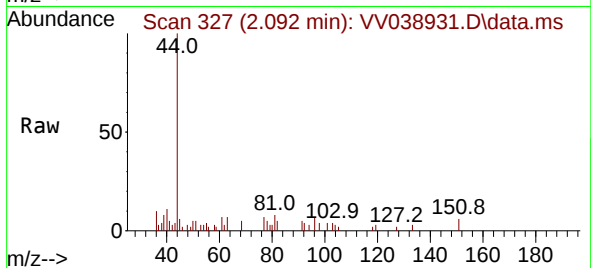




#12
1,1-Dichloroethene
Concen: 0.074 ug/l
RT: 2.092 min Scan# 31
Delta R.T. 0.013 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

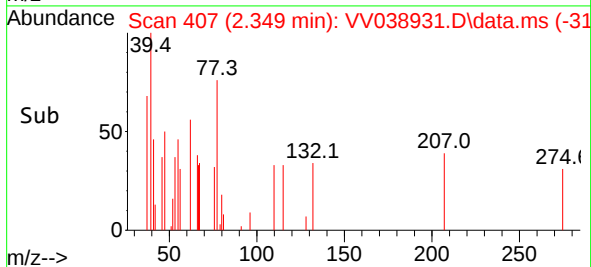
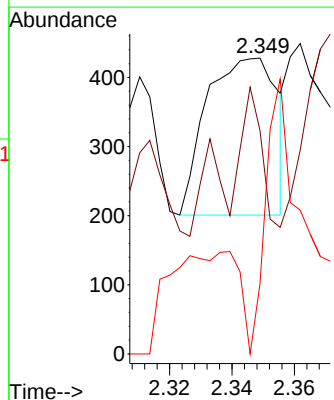
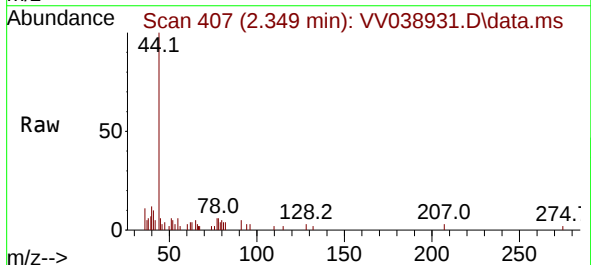
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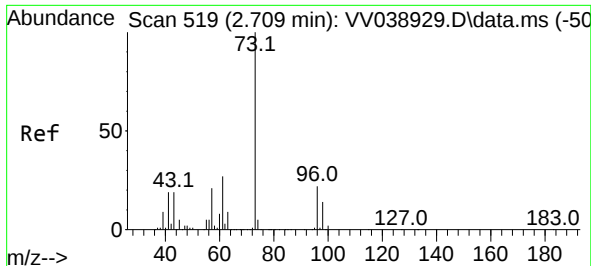
Tgt Ion: 96 Resp: 251
Ion Ratio Lower Upper
96 100
61 98.0 121.0 181.4#
98 102.0 49.4 74.2#



#14
Allyl chloride
Concen: 0.060 ug/l
RT: 2.349 min Scan# 407
Delta R.T. -0.006 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion: 41 Resp: 353
Ion Ratio Lower Upper
41 100
39 25.5 49.9 74.9#
76 99.2 29.7 44.5#

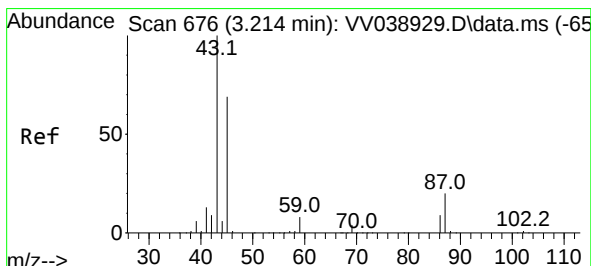
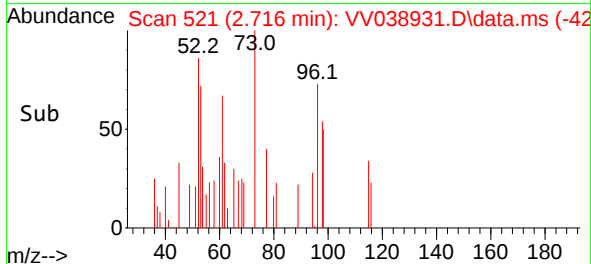
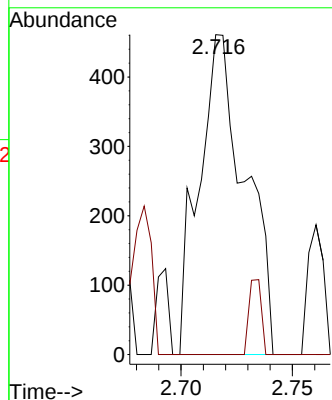
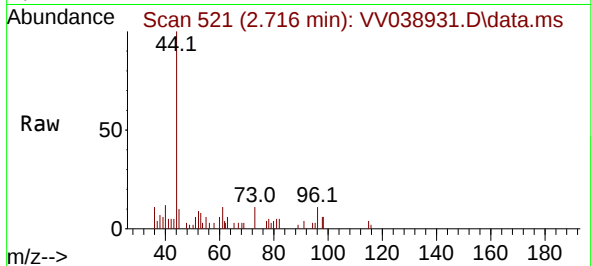




#19
Methyl tert-butyl Ether
Concen: 0.048 ug/l
RT: 2.716 min Scan# 519
Delta R.T. 0.007 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

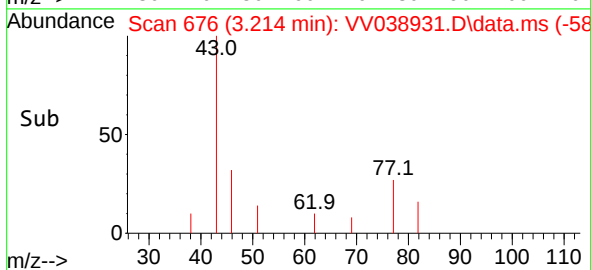
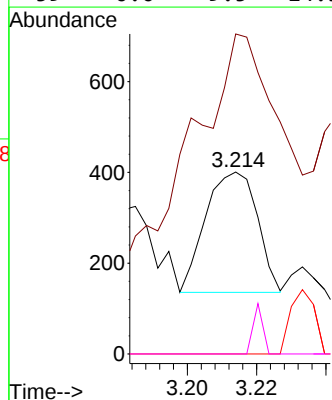
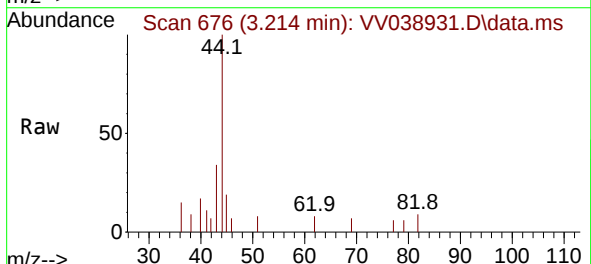
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ClientSampleId :
VIBLK

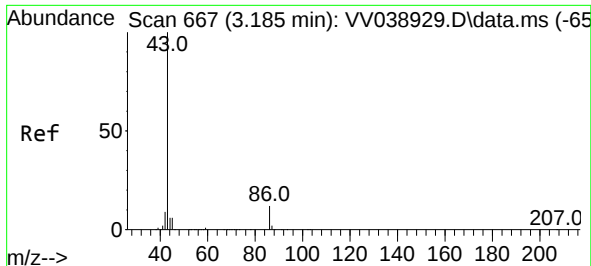
Tgt Ion: 73 Resp: 664
Ion Ratio Lower Upper
73 100
57 0.0 17.0 25.6#



#22
Diisopropyl ether
Concen: 0.023 ug/l
RT: 3.214 min Scan# 676
Delta R.T. -0.000 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion: 45 Resp: 274
Ion Ratio Lower Upper
45 100
43 100.0 115.3 172.9#
87 0.0 23.8 35.6#
59 0.0 9.5 14.3#

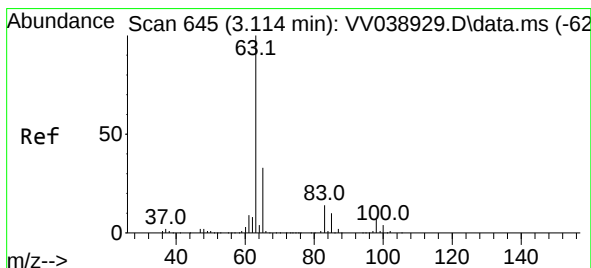
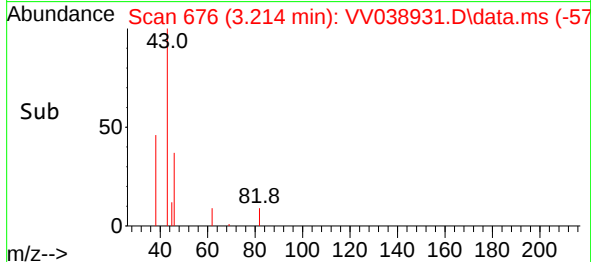
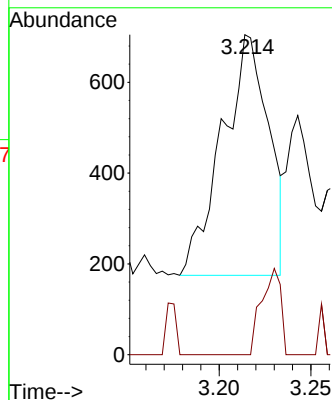
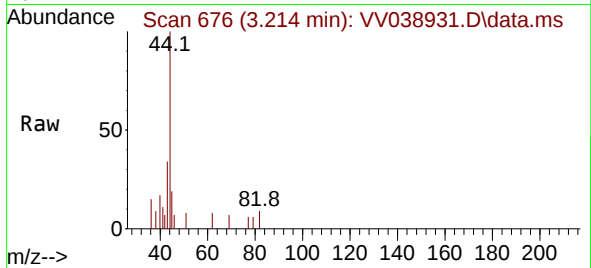




#23
 Vinyl Acetate
 Concen: 0.105 ug/l
 RT: 3.214 min Scan# 61
 Delta R.T. 0.029 min
 Lab File: VV038931.D
 Acq: 08 Aug 2025 12:21

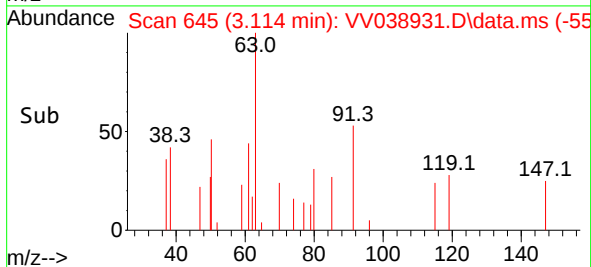
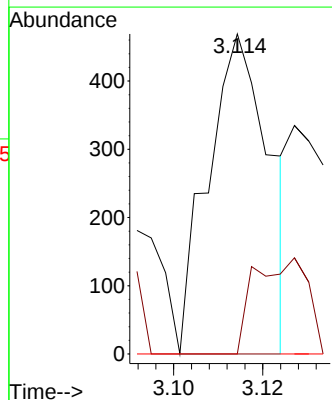
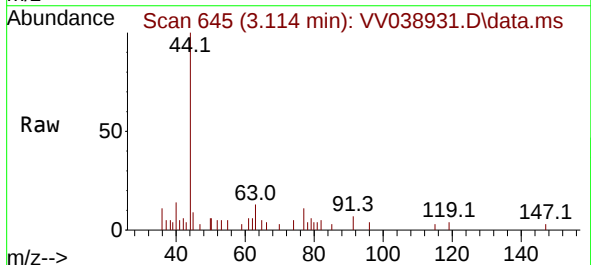
Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK

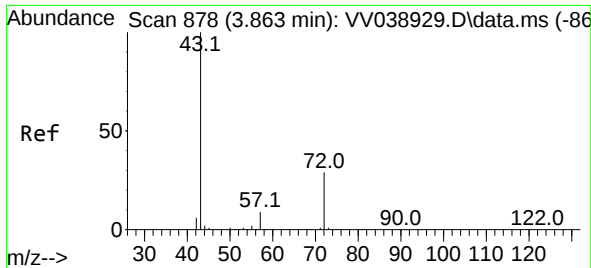
Tgt Ion: 43 Resp: 935
 Ion Ratio Lower Upper
 43 100
 86 0.0 9.5 14.3#



#24
 1,1-Dichloroethane
 Concen: 0.058 ug/l
 RT: 3.114 min Scan# 645
 Delta R.T. -0.000 min
 Lab File: VV038931.D
 Acq: 08 Aug 2025 12:21

Tgt Ion: 63 Resp: 446
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.5 10.4#
 100 0.0 2.2 6.6#

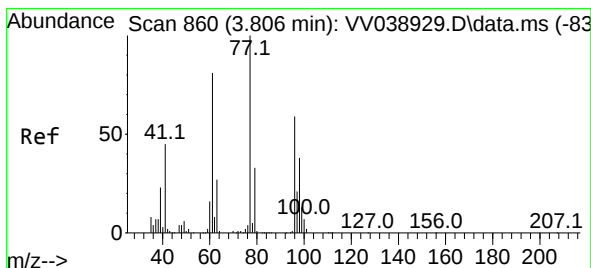
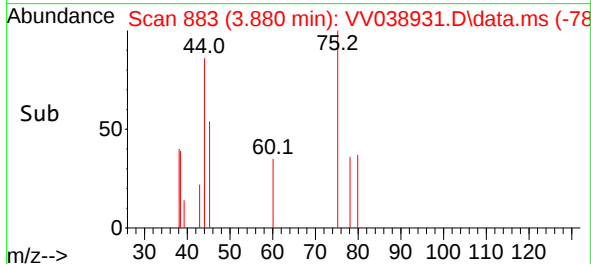
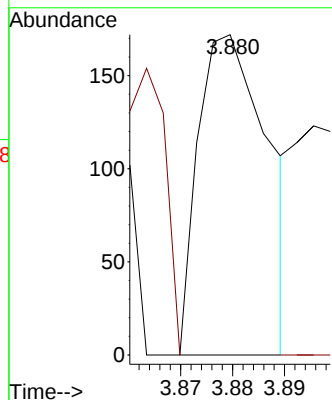
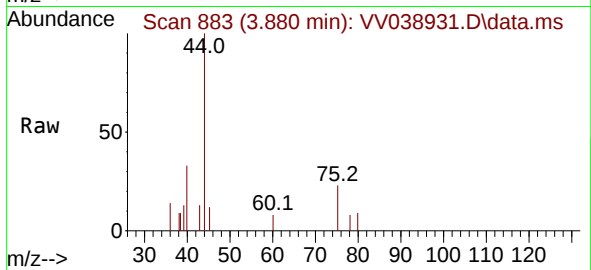




#25
2-Butanone
Concen: 0.059 ug/l
RT: 3.880 min Scan# 81
Delta R.T. 0.016 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

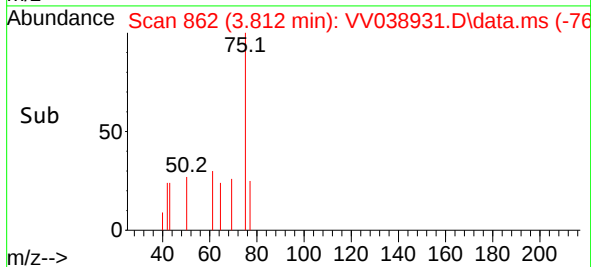
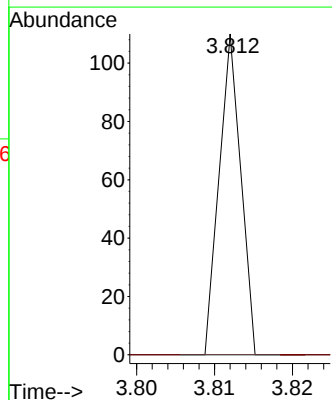
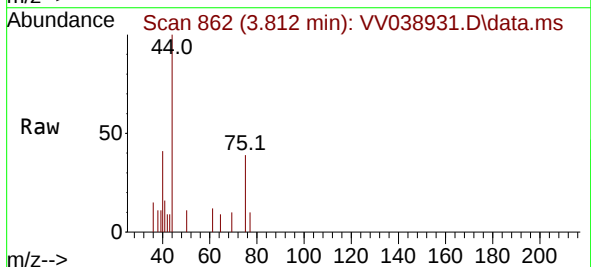
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

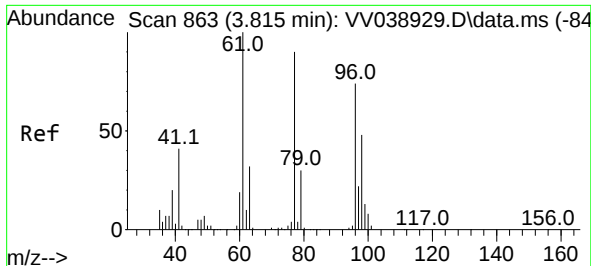
Tgt Ion: 43 Resp: 159
Ion Ratio Lower Upper
43 100
72 0.0 23.5 35.3#



#26
2,2-Dichloropropane
Concen: 0.003 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion: 77 Resp: 21
Ion Ratio Lower Upper
77 100
97 0.0 11.1 33.3#





#27

cis-1,2-Dichloroethene

Concen: 0.115 ug/l

RT: 3.834 min Scan# 869

Delta R.T. 0.019 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

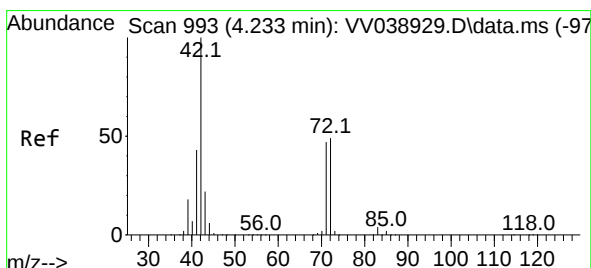
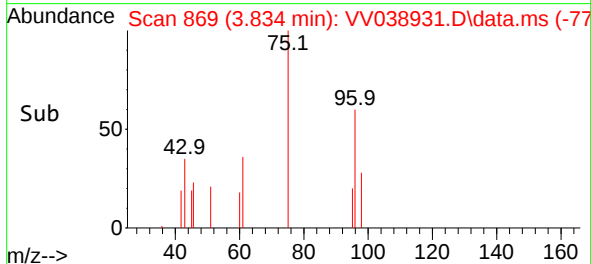
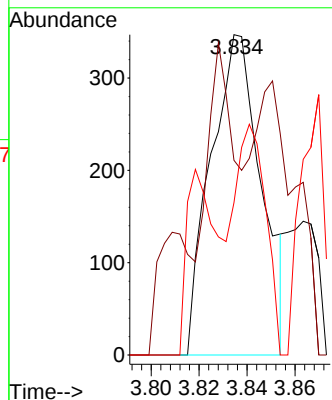
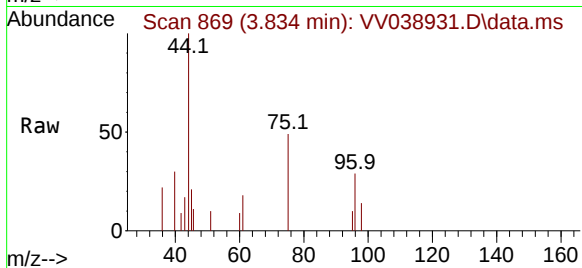
MSVOA_V

ClientSampleId :

VIBLK

Tgt Ion: 96 Resp: 507

Ion	Ratio	Lower	Upper
96	100		
61	55.0	0.0	270.4
98	43.4	0.0	128.0



#29

Tetrahydrofuran

Concen: 0.062 ug/l

RT: 4.233 min Scan# 993

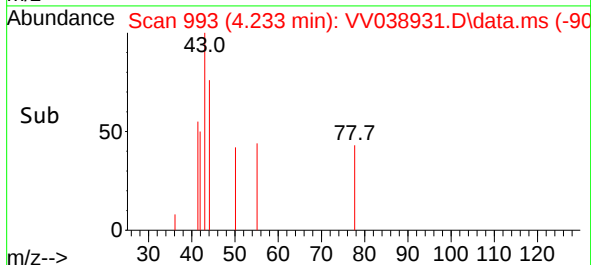
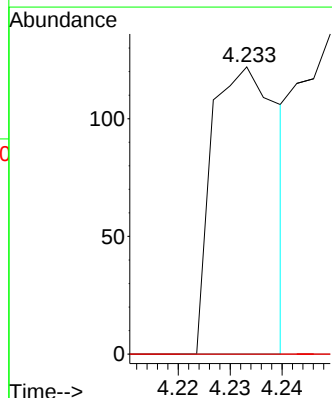
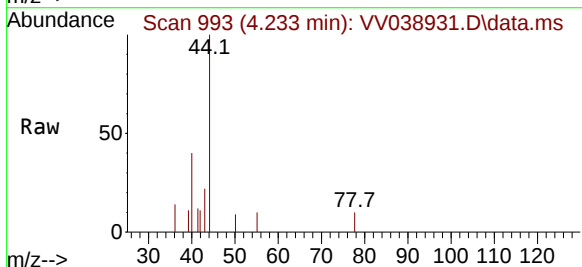
Delta R.T. -0.000 min

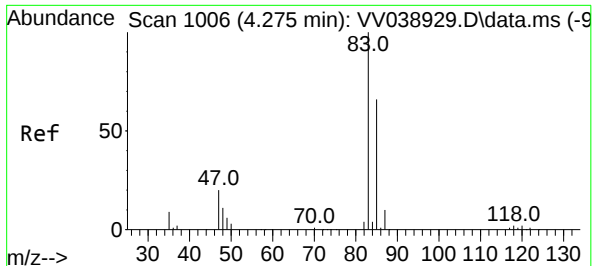
Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Tgt Ion: 42 Resp: 108

Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.9	59.9#
71	0.0	37.4	56.0#





#30

Chloroform

Concen: 0.052 ug/l

RT: 4.285 min Scan# 1009

Delta R.T. 0.010 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

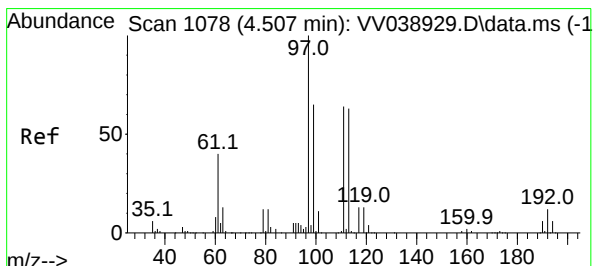
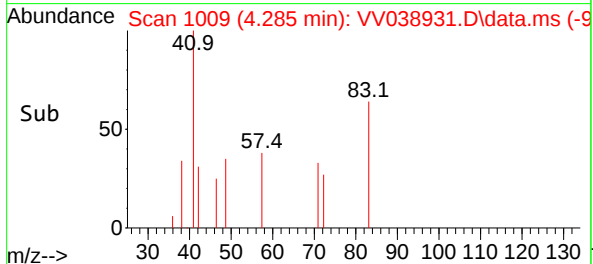
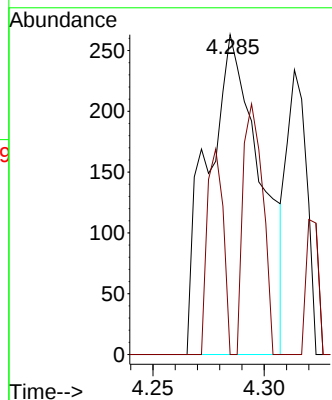
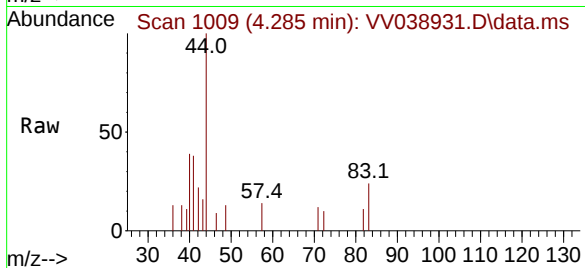
VIBLK

Tgt Ion: 83 Resp: 437

Ion Ratio Lower Upper

83 100

85 0.0 53.0 79.6#



#32

1,1,1-Trichloroethane

Concen: 0.006 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. -0.003 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

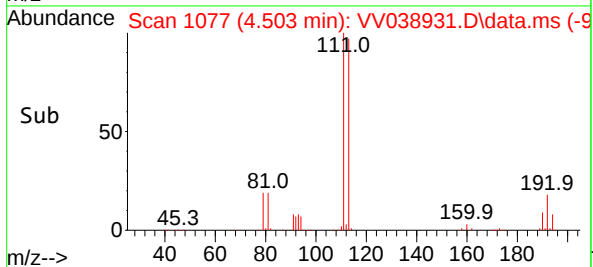
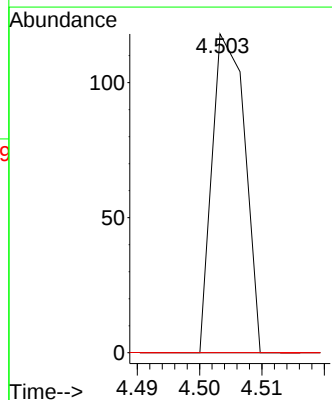
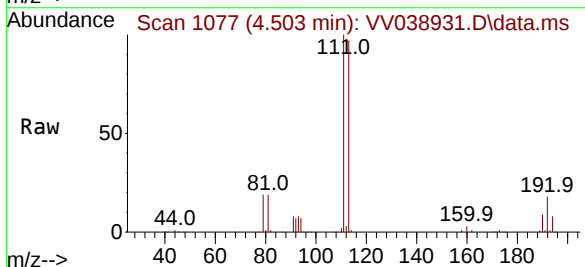
Tgt Ion: 97 Resp: 43

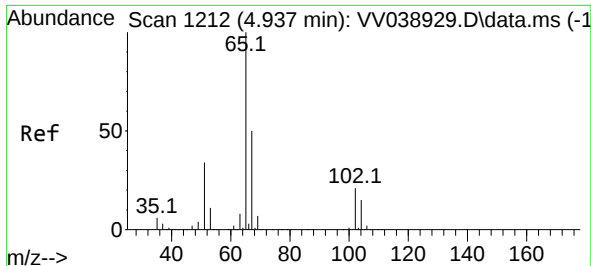
Ion Ratio Lower Upper

97 100

99 0.0 49.8 74.6#

61 0.0 31.8 47.8#





#33

1,2-Dichloroethane-d4

Concen: 57.107 ug/l

RT: 4.941 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

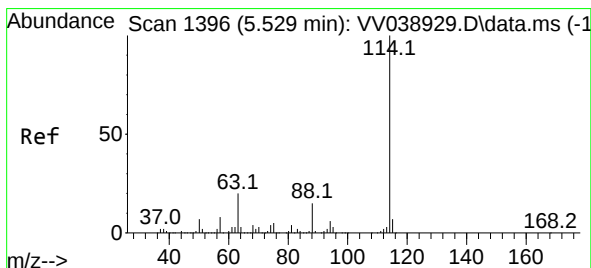
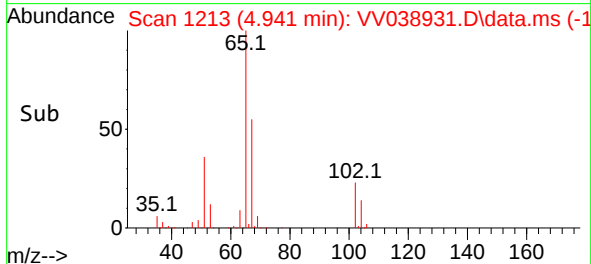
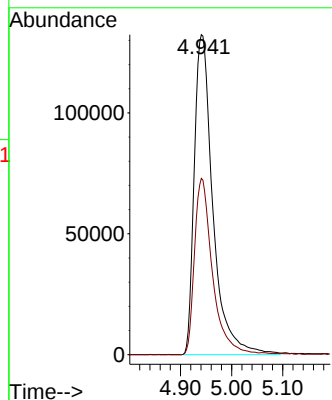
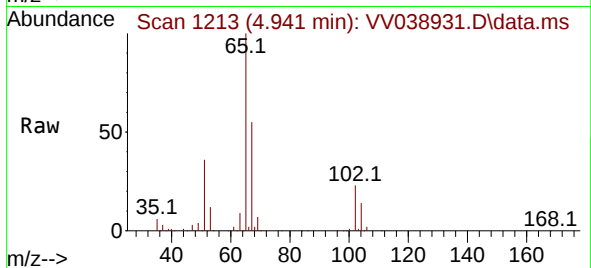
VIBLK

Tgt Ion: 65 Resp: 335260

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

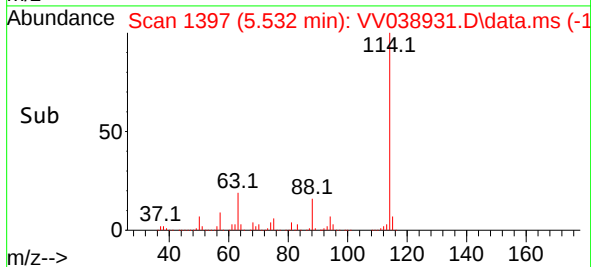
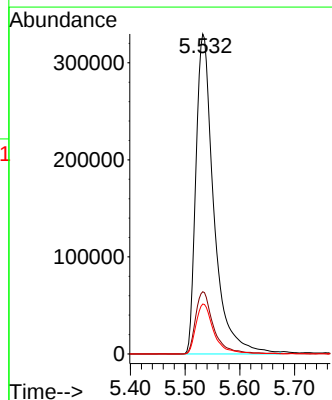
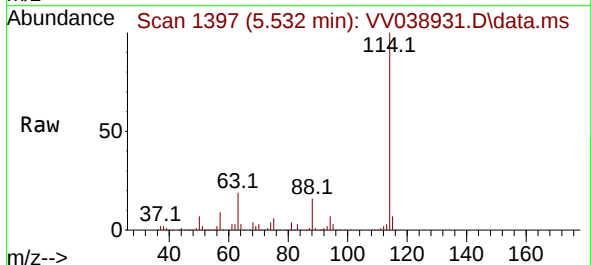
Tgt Ion: 114 Resp: 749692

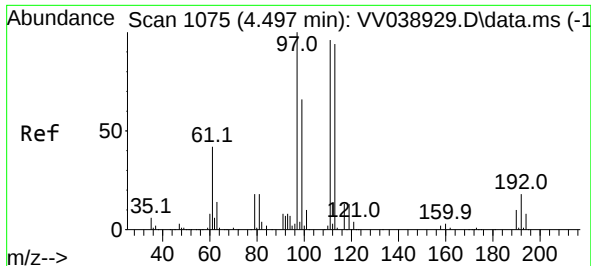
Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.0

88 15.6 0.0 30.0

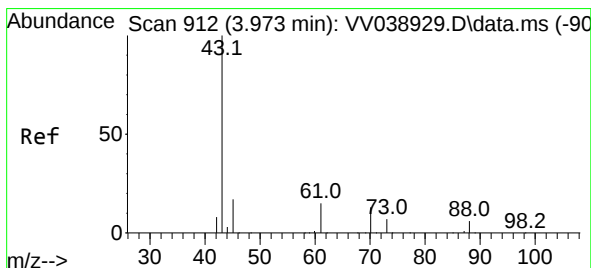
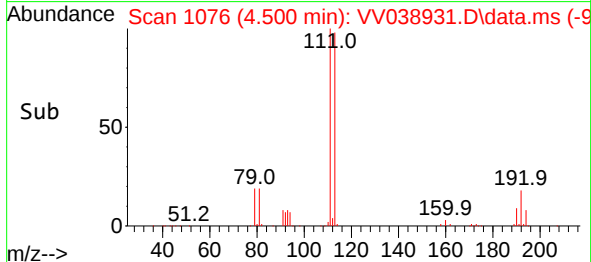
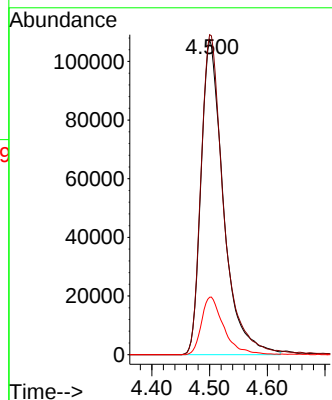
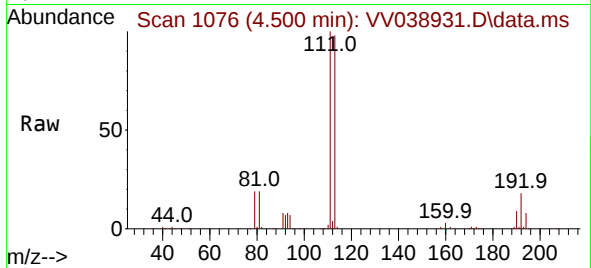




#35
Dibromofluoromethane
Concen: 50.872 ug/l
RT: 4.500 min Scan# 113
Delta R.T. 0.003 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

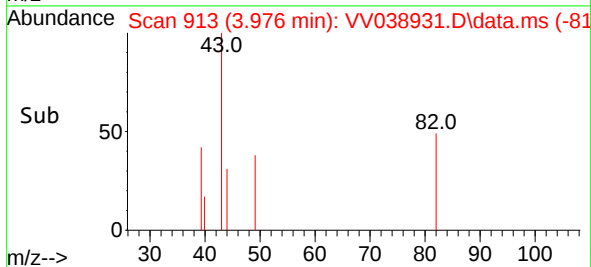
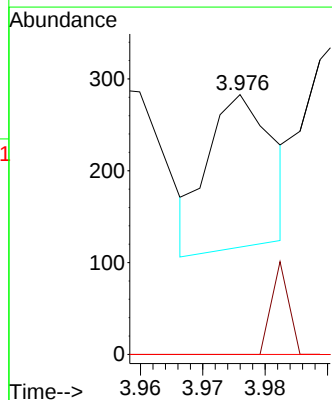
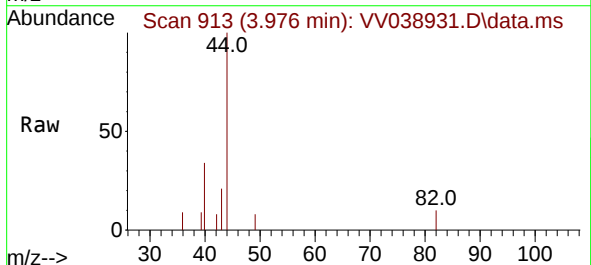
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

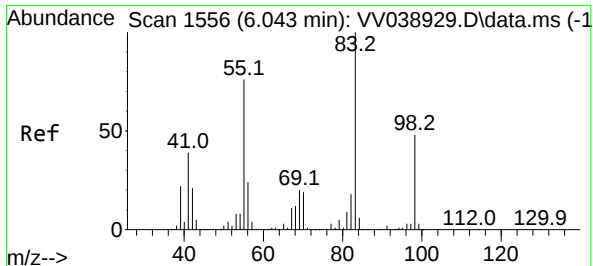
Tgt Ion:113 Resp: 289336
Ion Ratio Lower Upper
113 100
111 102.4 82.2 123.2
192 18.3 14.9 22.3



#37
Ethyl Acetate
Concen: 0.018 ug/l
RT: 3.976 min Scan# 913
Delta R.T. 0.003 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion: 43 Resp: 121
Ion Ratio Lower Upper
43 100
61 15.7 12.0 18.0
70 0.0 8.6 13.0#





#39

Methylcyclohexane

Concen: 0.089 ug/l

RT: 6.053 min Scan# 11

Delta R.T. 0.010 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

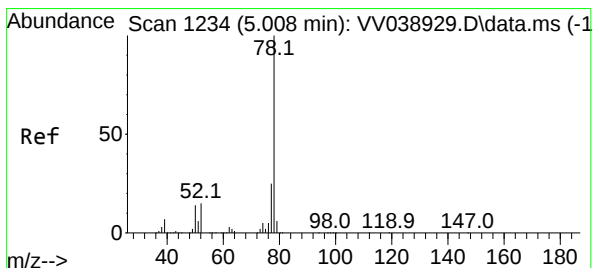
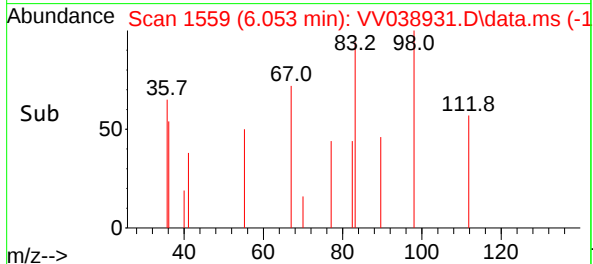
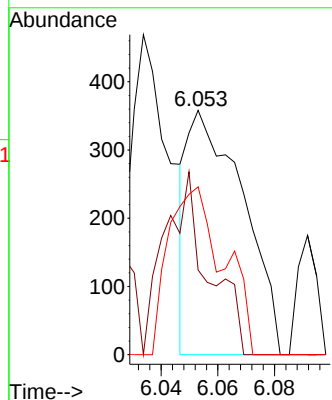
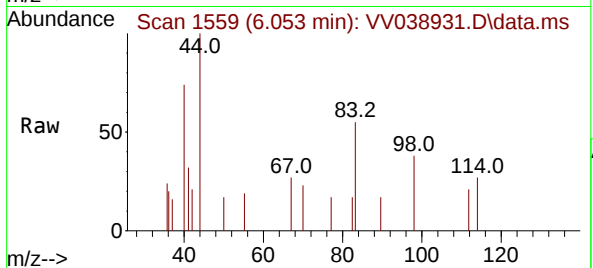
Tgt Ion: 83 Resp: 489

Ion Ratio Lower Upper

83 100

55 34.6 60.8 91.2#

98 68.7 38.6 57.8#



#40

Benzene

Concen: 0.049 ug/l

RT: 5.031 min Scan# 1241

Delta R.T. 0.022 min

Lab File: VV038931.D

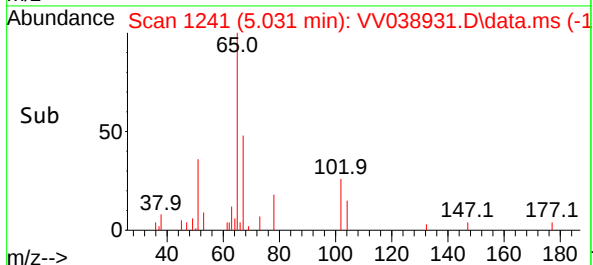
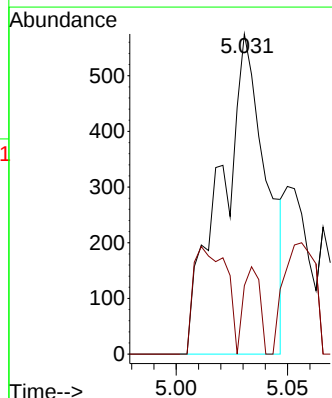
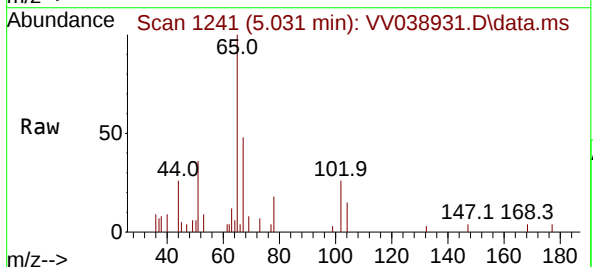
Acq: 08 Aug 2025 12:21

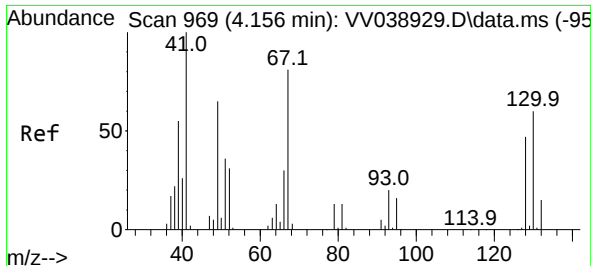
Tgt Ion: 78 Resp: 818

Ion Ratio Lower Upper

78 100

77 21.4 19.6 29.4

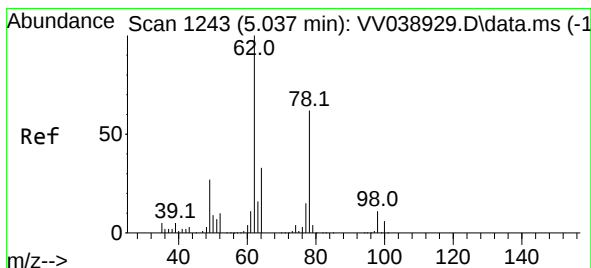
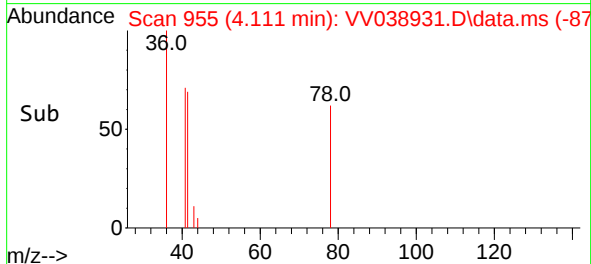
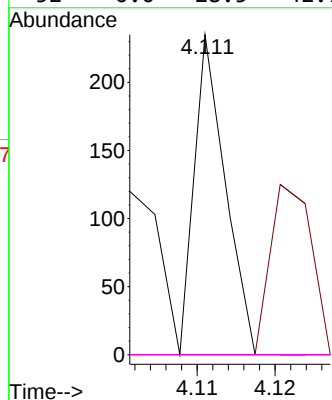
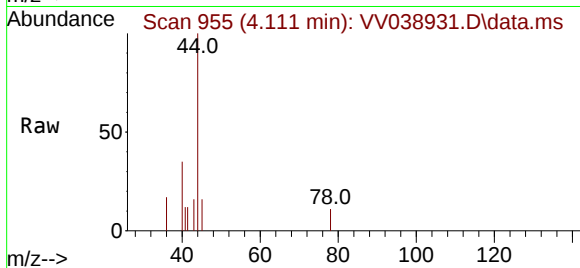




#41
Methacrylonitrile
Concen: 0.024 ug/l
RT: 4.111 min Scan# 91
Delta R.T. -0.045 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

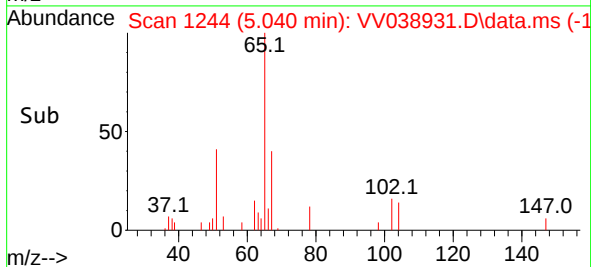
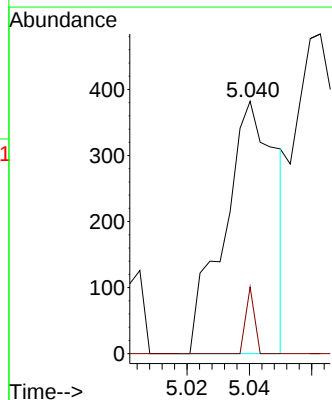
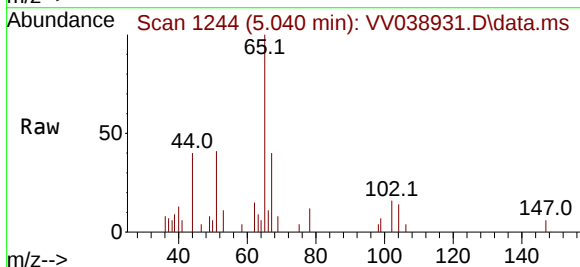
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

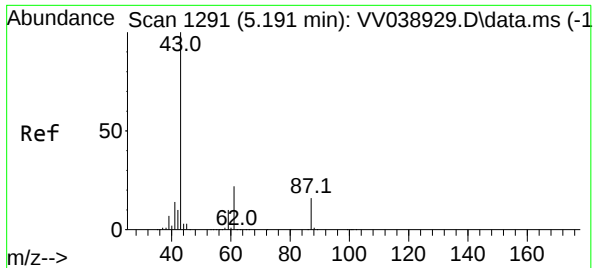
Tgt Ion:	41	Resp:	65
Ion	Ratio	Lower	Upper
41	100		
39	70.8	41.8	62.6#
67	0.0	72.6	109.0#
52	0.0	28.5	42.7#



#42
1,2-Dichloroethane
Concen: 0.068 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion:	62	Resp:	440
Ion	Ratio	Lower	Upper
62	100		
98	4.3	0.0	19.6

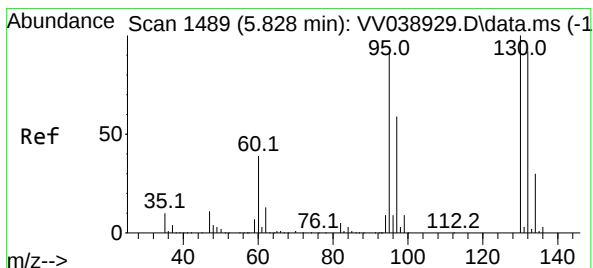
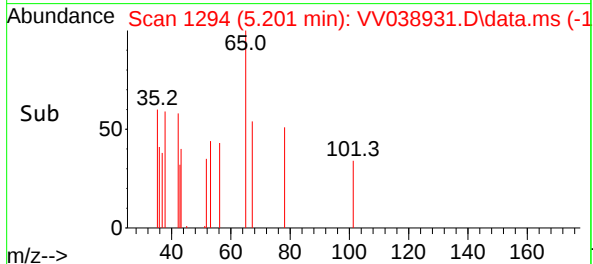
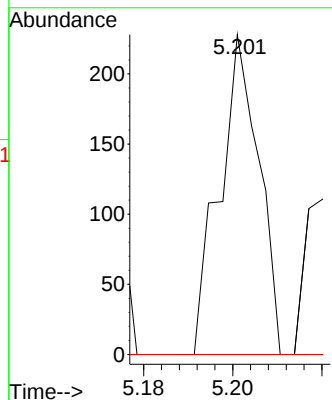
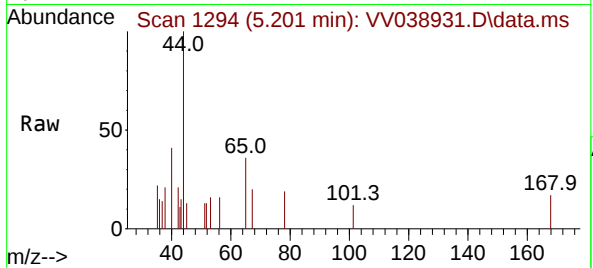




#43
Isopropyl Acetate
Concen: 0.015 ug/l
RT: 5.201 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

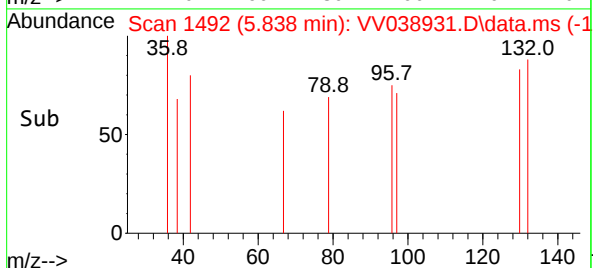
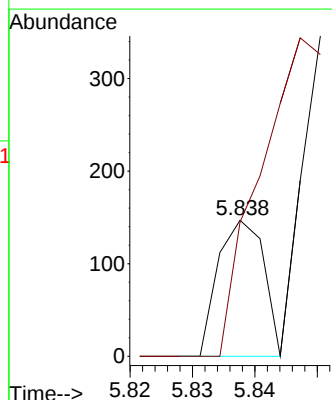
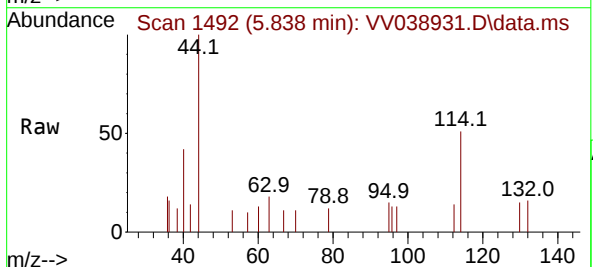
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

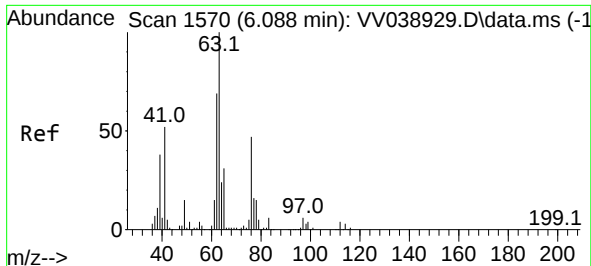
Tgt Ion: 43 Resp: 140
Ion Ratio Lower Upper
43 100
61 0.0 17.0 25.6#
87 0.0 12.2 18.4#



#44
Trichloroethene
Concen: 0.017 ug/l
RT: 5.838 min Scan# 1492
Delta R.T. 0.010 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion:130 Resp: 74
Ion Ratio Lower Upper
130 100
95 98.6 0.0 181.2





#45

1,2-Dichloropropane

Concen: 0.023 ug/l

RT: 6.098 min Scan# 11

Delta R.T. 0.010 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

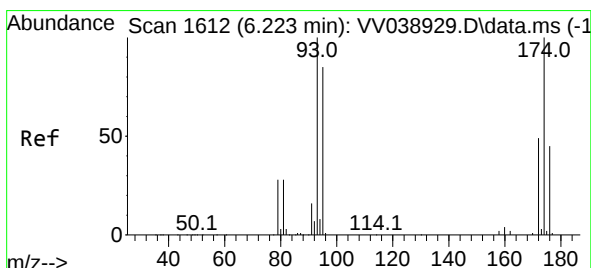
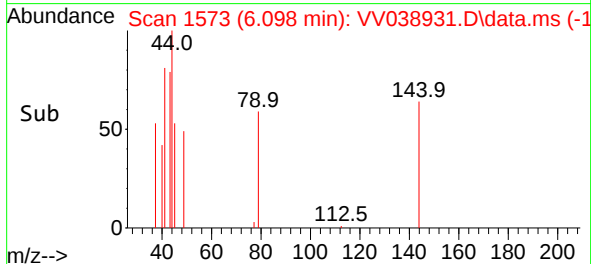
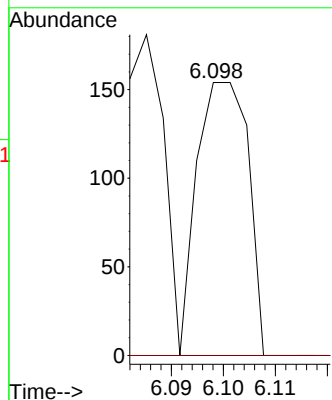
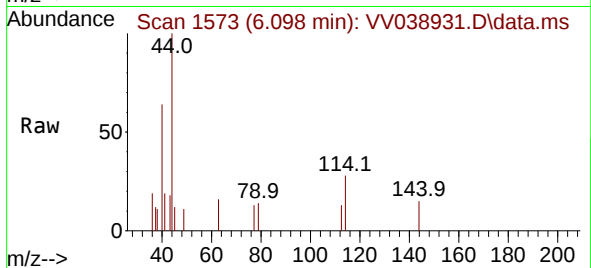
VIBLK

Tgt Ion: 63 Resp: 106

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



#46

Dibromomethane

Concen: 0.121 ug/l

RT: 6.265 min Scan# 1625

Delta R.T. 0.042 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

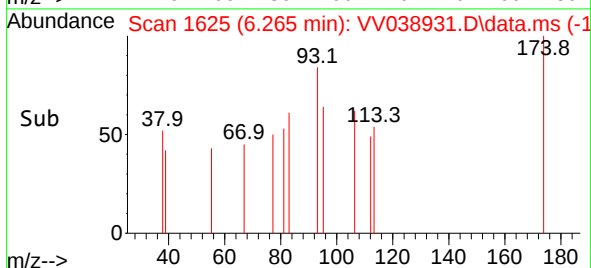
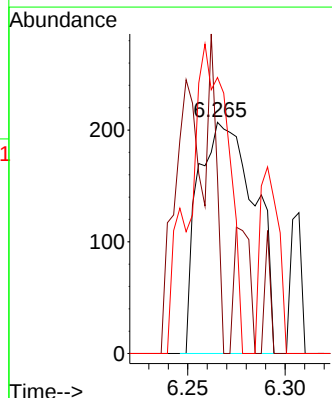
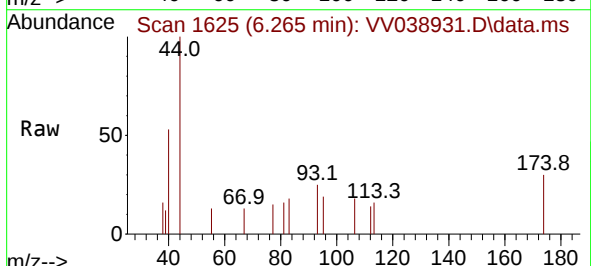
Tgt Ion: 93 Resp: 417

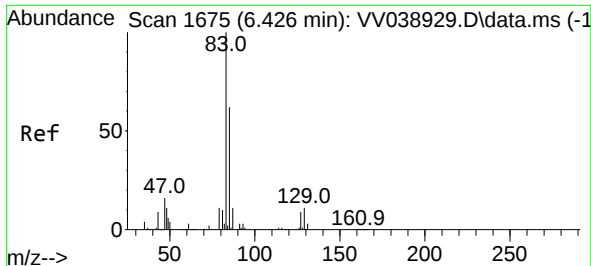
Ion Ratio Lower Upper

93 100

95 15.1 67.8 101.6#

174 92.6 77.4 116.0





#47

Bromodichloromethane

Concen: 0.010 ug/l

RT: 6.455 min Scan# 1

Delta R.T. 0.029 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

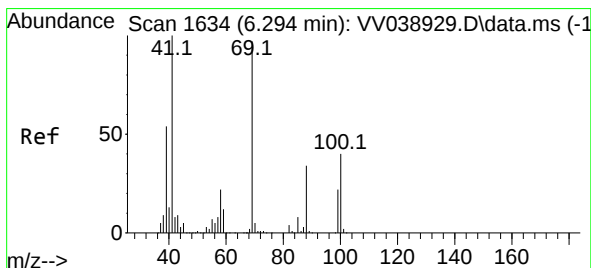
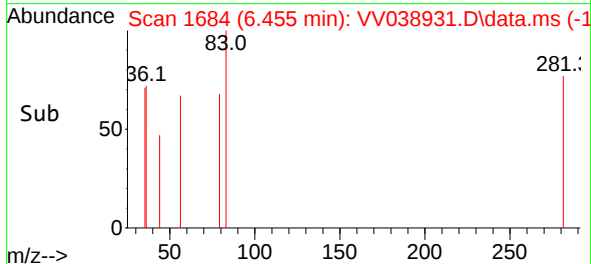
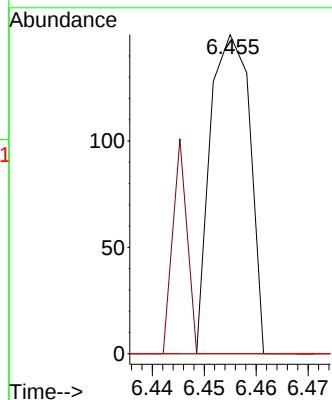
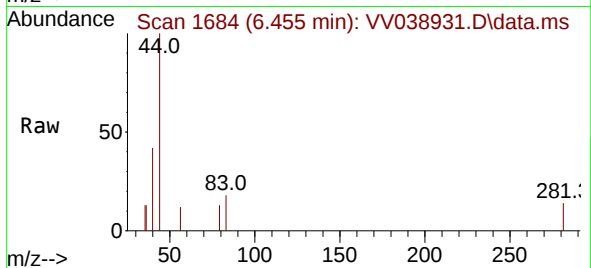
Tgt Ion: 83 Resp: 79

Ion Ratio Lower Upper

83 100

85 0.0 49.8 74.6#

127 0.0 7.1 10.7#



#48

Methyl methacrylate

Concen: 0.019 ug/l

RT: 6.291 min Scan# 1633

Delta R.T. -0.003 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

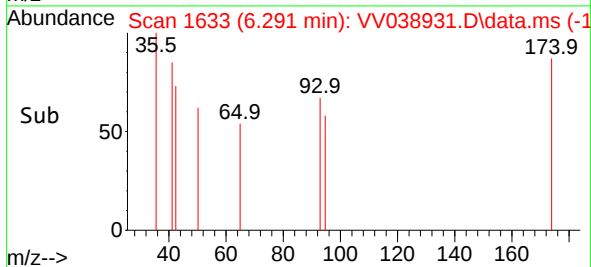
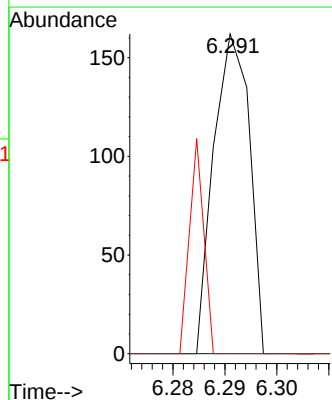
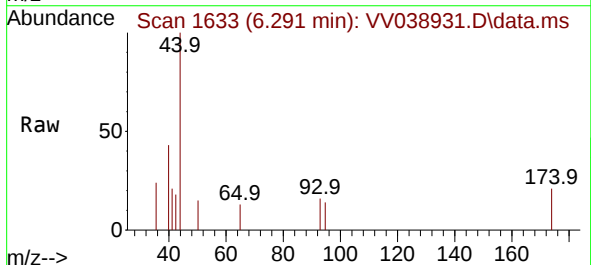
Tgt Ion: 41 Resp: 78

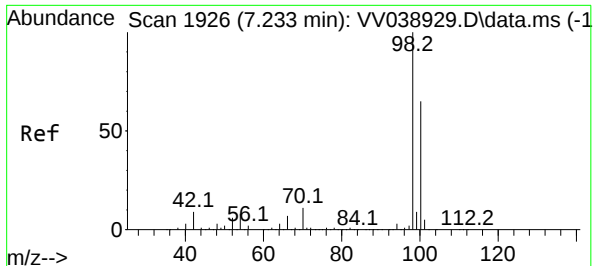
Ion Ratio Lower Upper

41 100

69 0.0 78.4 117.6#

39 26.9 43.3 64.9#





#50

Toluene-d8

Concen: 47.113 ug/l

RT: 7.236 min Scan# 1926

Delta R.T. 0.003 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

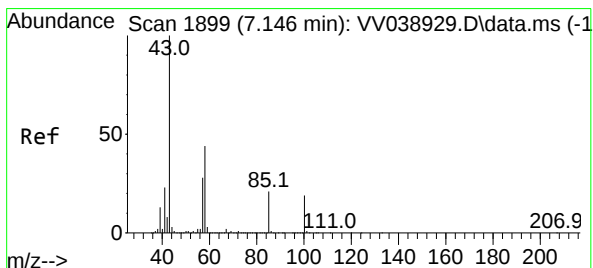
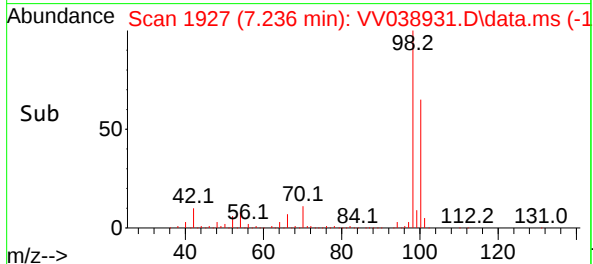
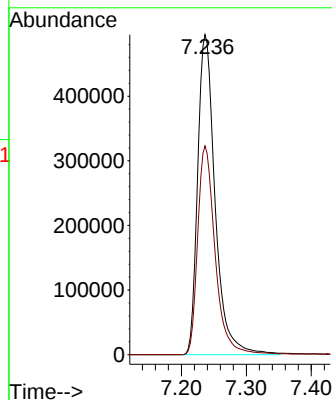
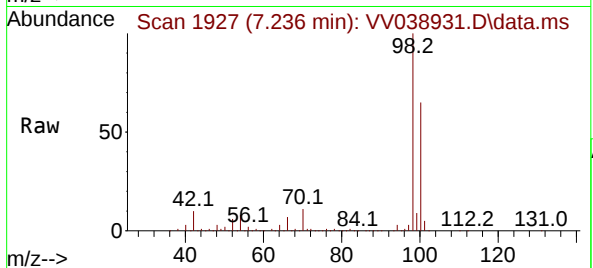
VIBLK

Tgt Ion: 98 Resp: 928022

Ion Ratio Lower Upper

98 100

100 65.2 52.6 78.8



#51

4-Methyl-2-Pentanone

Concen: 0.035 ug/l

RT: 7.133 min Scan# 1895

Delta R.T. -0.013 min

Lab File: VV038931.D

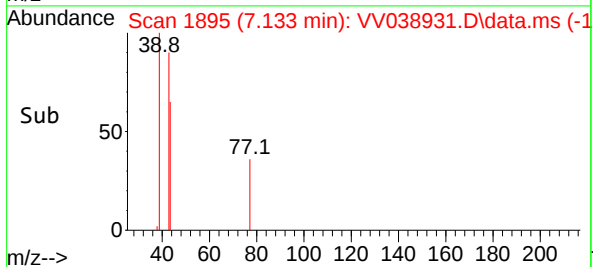
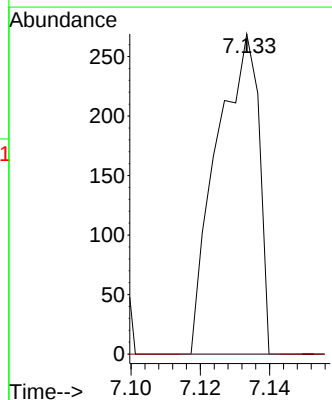
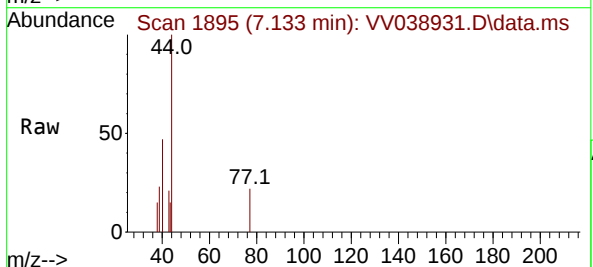
Acq: 08 Aug 2025 12:21

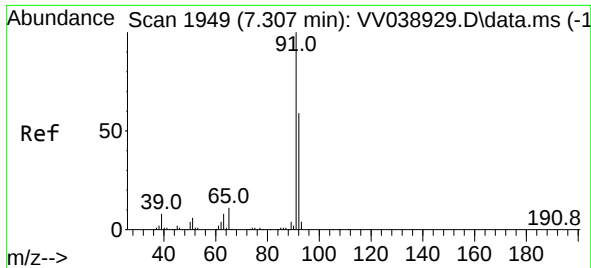
Tgt Ion: 43 Resp: 228

Ion Ratio Lower Upper

43 100

58 0.0 34.2 51.2#





#52

Toluene

Concen: 0.065 ug/l

RT: 7.317 min Scan# 1949

Delta R.T. 0.010 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

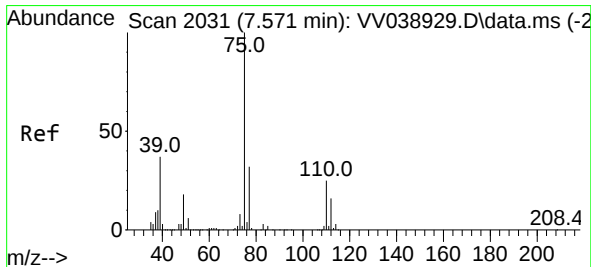
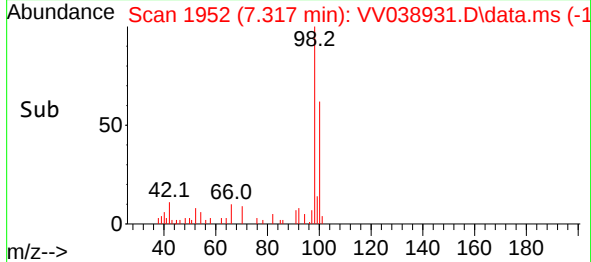
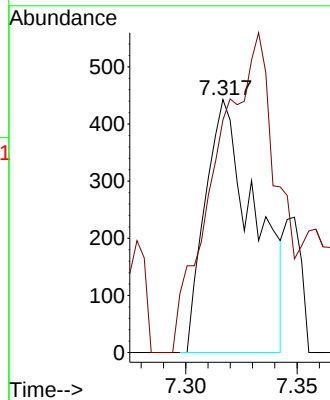
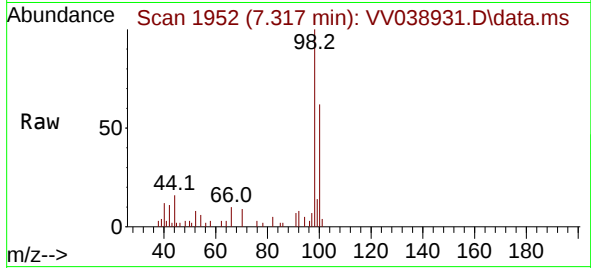
VIBLK

Tgt Ion: 92 Resp: 683

Ion Ratio Lower Upper

92 100

91 161.3 136.8 205.2



#53

t-1,3-Dichloropropene

Concen: 0.007 ug/l

RT: 7.561 min Scan# 2028

Delta R.T. -0.010 min

Lab File: VV038931.D

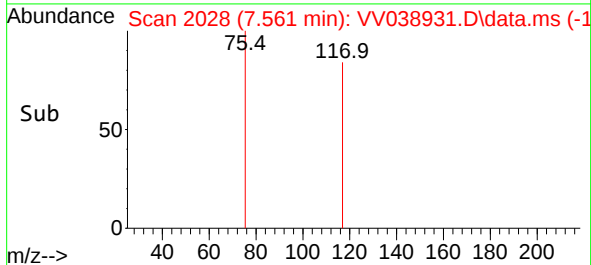
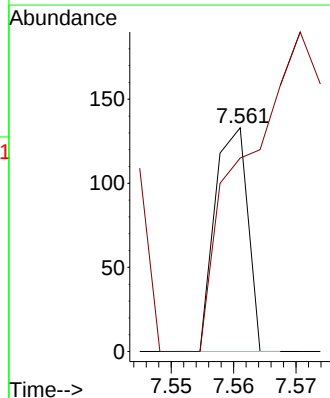
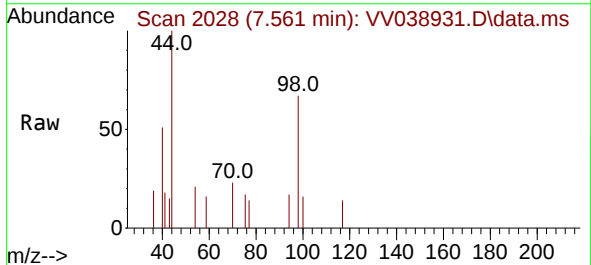
Acq: 08 Aug 2025 12:21

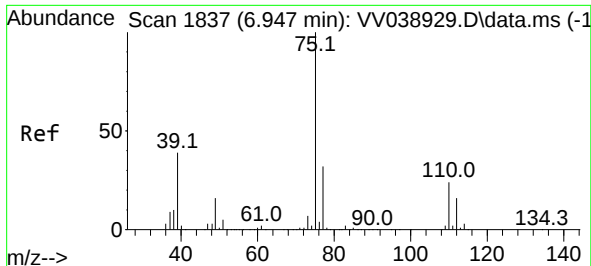
Tgt Ion: 75 Resp: 48

Ion Ratio Lower Upper

75 100

77 86.5 25.3 37.9#

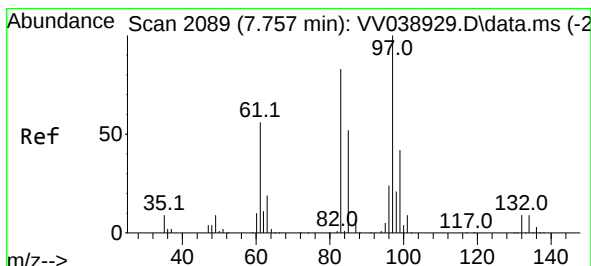
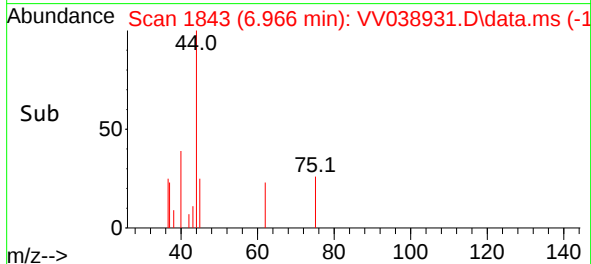
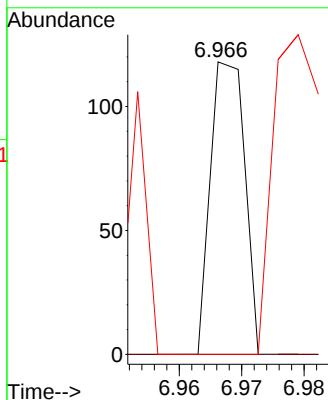
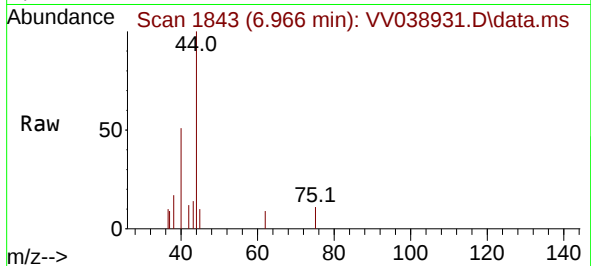




#54
 cis-1,3-Dichloropropene
 Concen: 0.006 ug/l
 RT: 6.966 min Scan# 1843
 Delta R.T. 0.019 min
 Lab File: VV038931.D
 Acq: 08 Aug 2025 12:21

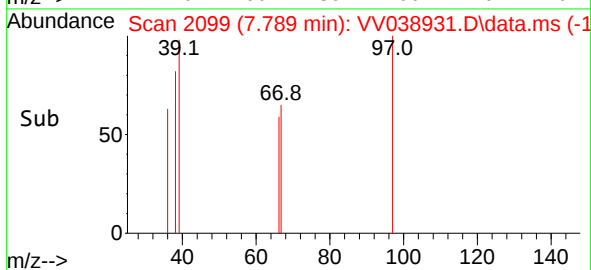
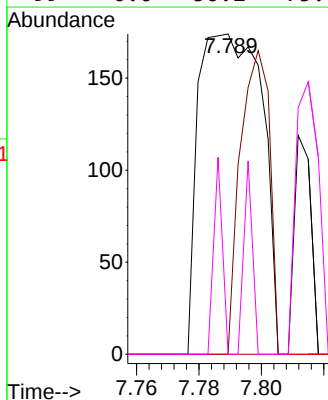
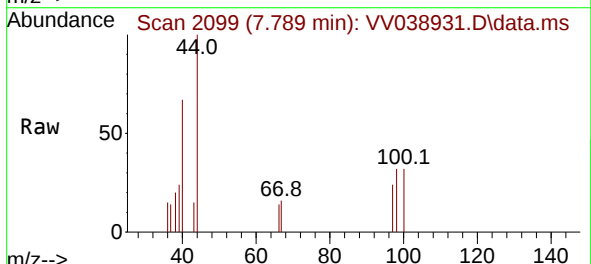
Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK

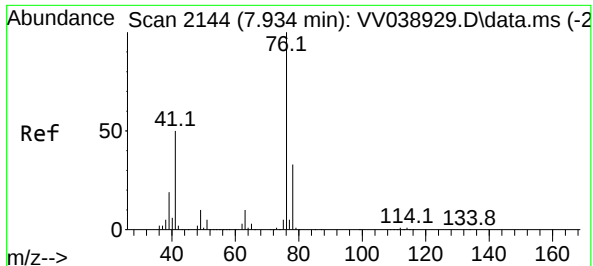
Tgt Ion: 75 Resp: 45
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 0.0 31.6 47.4#



#55
 1,1,2-Trichloroethane
 Concen: 0.048 ug/l
 RT: 7.789 min Scan# 2099
 Delta R.T. 0.032 min
 Lab File: VV038931.D
 Acq: 08 Aug 2025 12:21

Tgt Ion: 97 Resp: 245
 Ion Ratio Lower Upper
 97 100
 83 0.0 66.2 99.4#
 85 0.0 42.9 64.3#
 99 0.0 50.2 75.4#

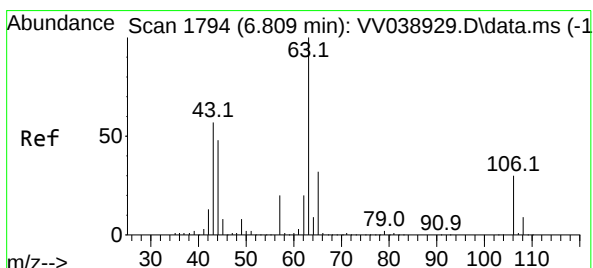
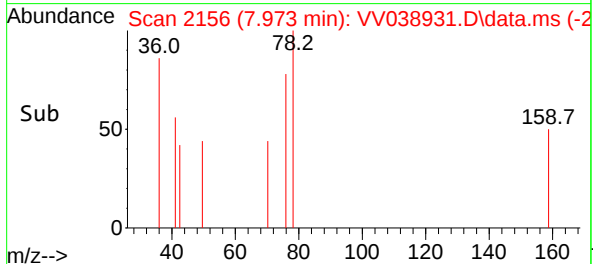
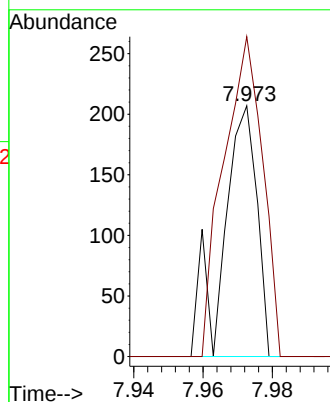
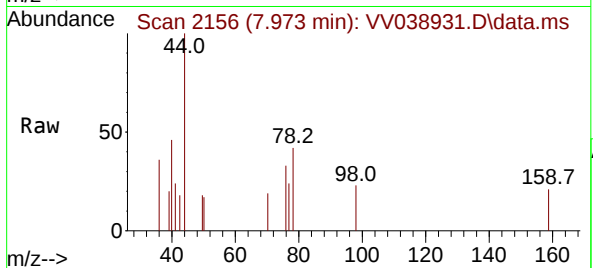




#57
1,3-Dichloropropane
Concen: 0.018 ug/l
RT: 7.973 min Scan# 2144
Delta R.T. 0.039 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

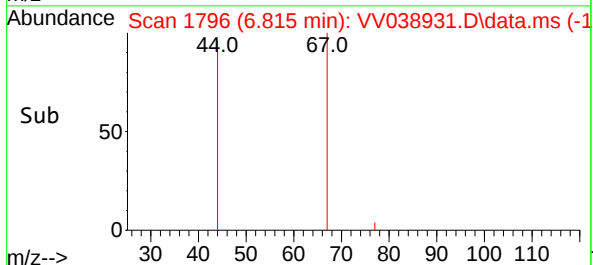
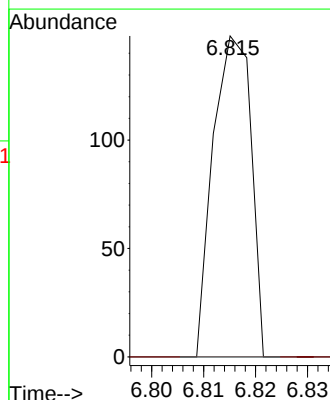
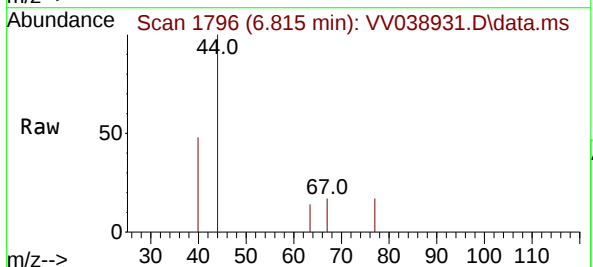
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

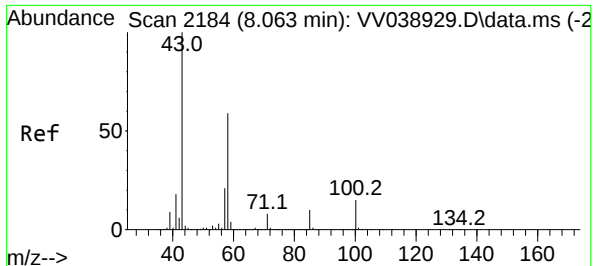
Tgt Ion: 76 Resp: 139
Ion Ratio Lower Upper
76 100
78 148.9 25.9 38.9#



#58
2-Chloroethyl Vinyl ether
Concen: 0.025 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion: 63 Resp: 75
Ion Ratio Lower Upper
63 100
106 0.0 24.1 36.1#

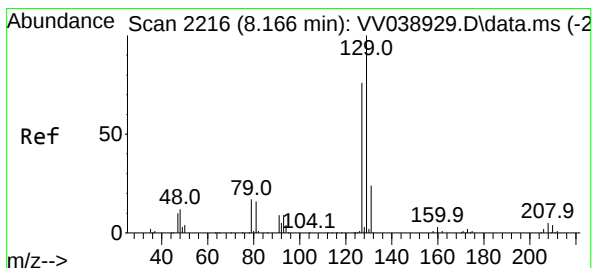
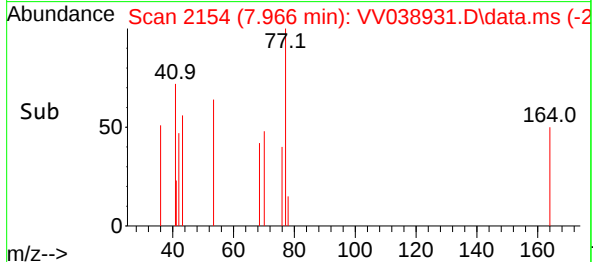
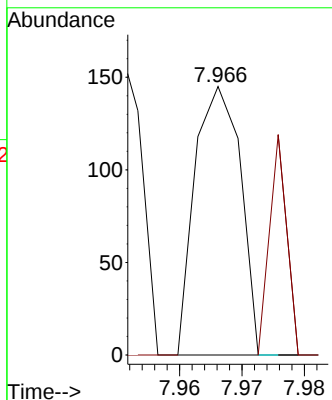
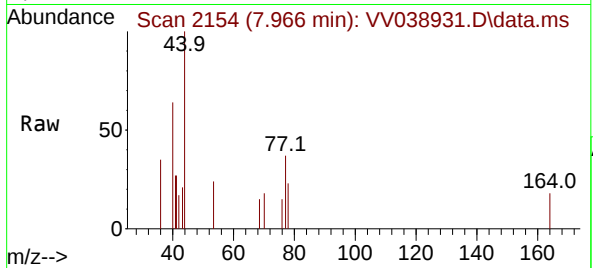




#59
2-Hexanone
Concen: 0.016 ug/l
RT: 7.966 min Scan# 2184
Delta R.T. -0.096 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

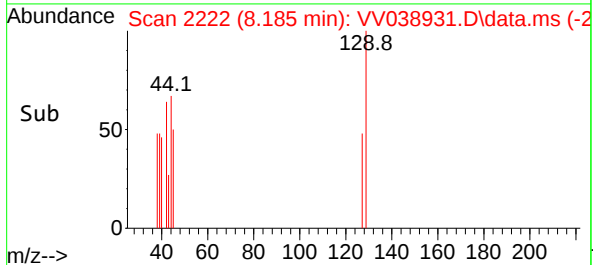
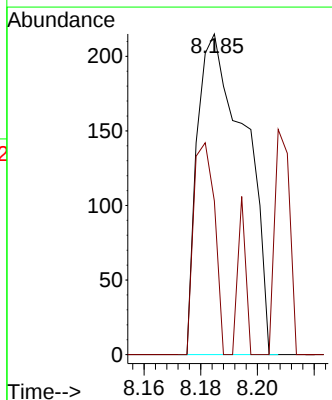
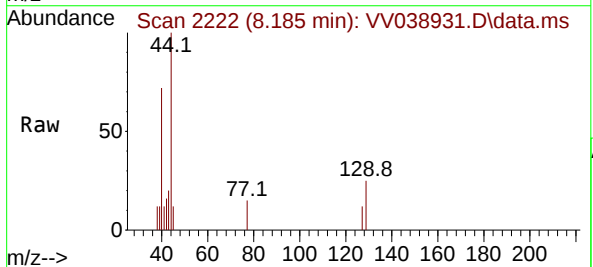
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

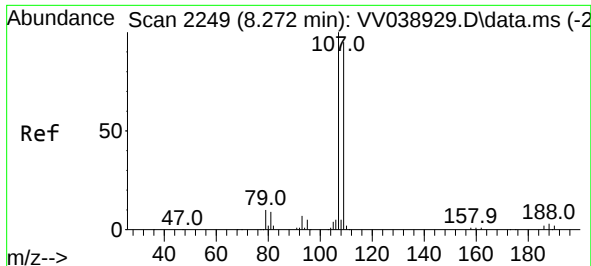
Tgt Ion: 43 Resp: 73
Ion Ratio Lower Upper
43 100
58 31.5 29.3 87.8



#60
Dibromochloromethane
Concen: 0.040 ug/l
RT: 8.185 min Scan# 2222
Delta R.T. 0.019 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion:129 Resp: 251
Ion Ratio Lower Upper
129 100
127 29.1 38.2 114.6#





#61

1,2-Dibromoethane

Concen: 0.052 ug/l

RT: 8.297 min Scan# 21

Delta R.T. 0.026 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

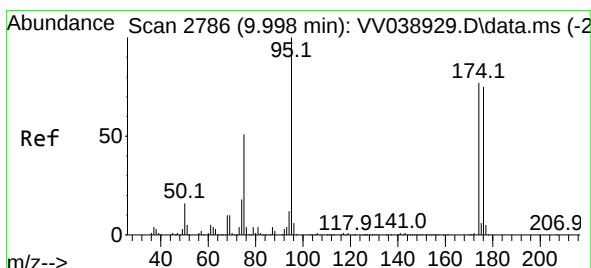
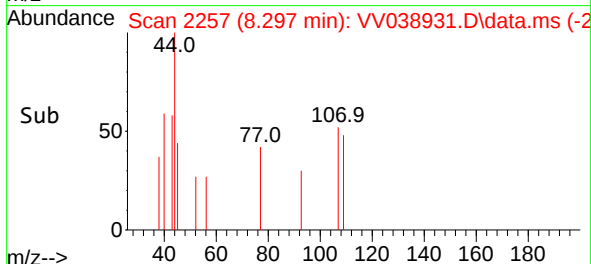
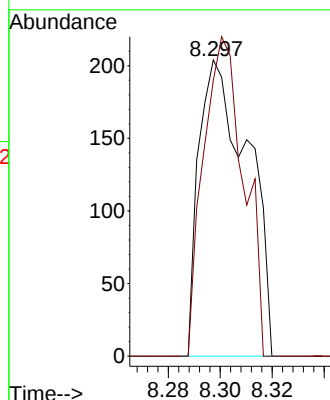
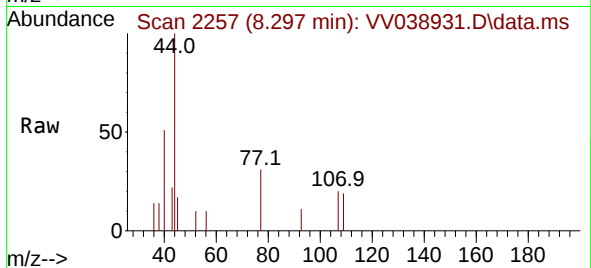
VIBLK

Tgt Ion:107 Resp: 267

Ion Ratio Lower Upper

107 100

109 88.8 76.2 114.2



#62

4-Bromofluorobenzene

Concen: 39.072 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

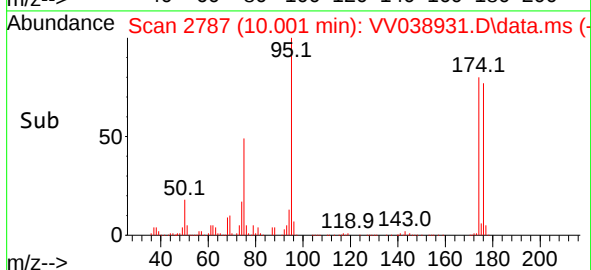
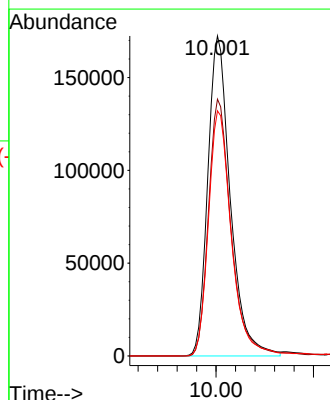
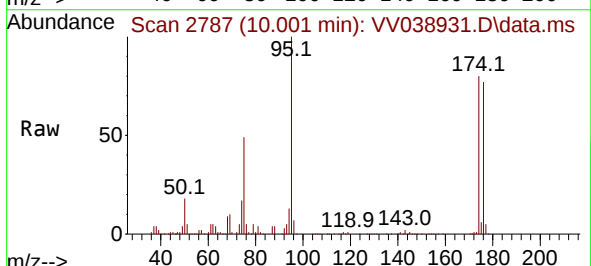
Tgt Ion: 95 Resp: 277180

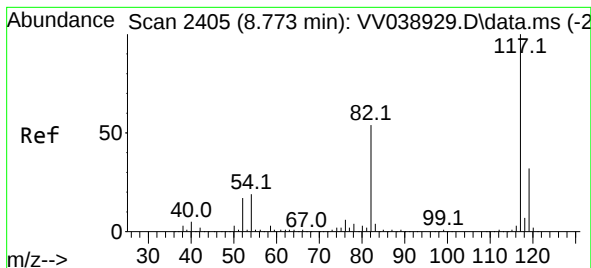
Ion Ratio Lower Upper

95 100

174 81.3 0.0 156.6

176 78.0 0.0 153.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

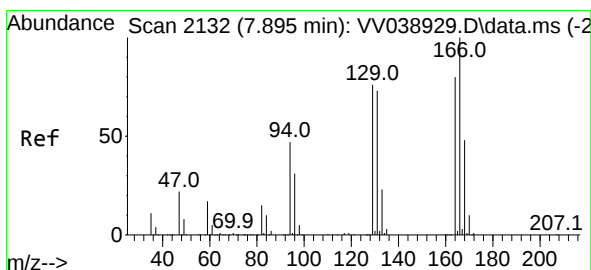
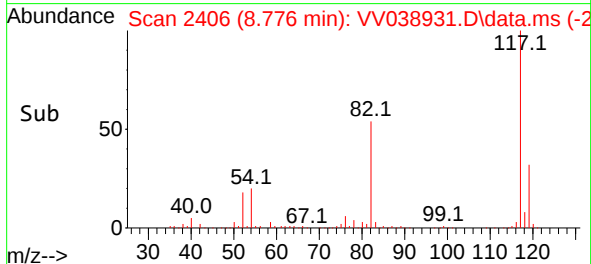
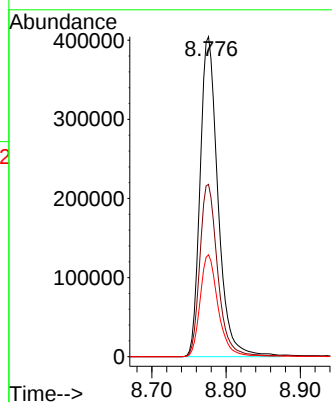
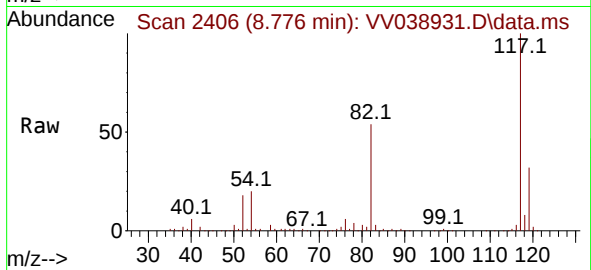
Tgt Ion:117 Resp: 679727

Ion Ratio Lower Upper

117 100

82 53.8 43.2 64.8

119 31.8 25.6 38.4



#64

Tetrachloroethene

Concen: 0.145 ug/l

RT: 7.915 min Scan# 2138

Delta R.T. 0.019 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Tgt Ion:164 Resp: 580

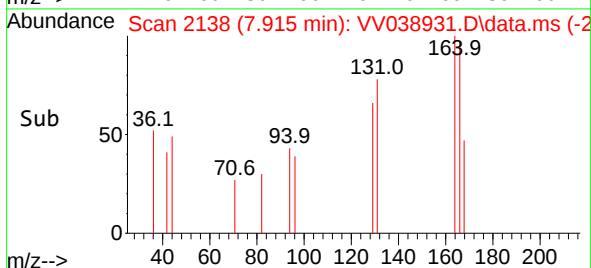
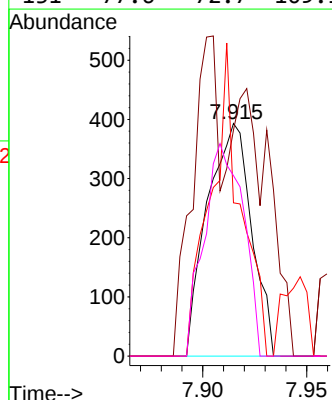
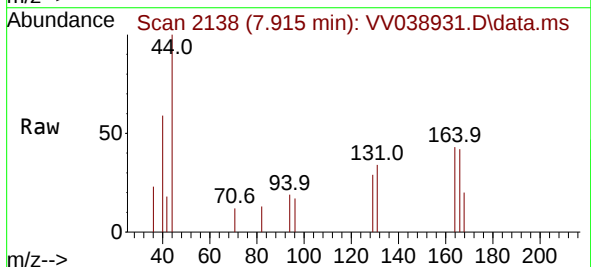
Ion Ratio Lower Upper

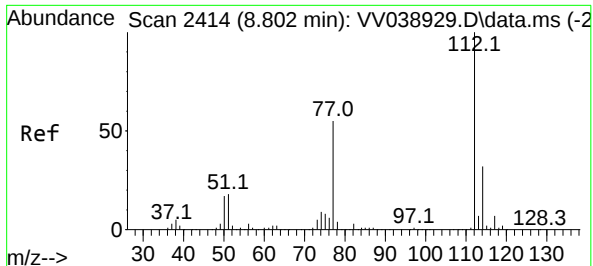
164 100

166 61.6 100.2 150.4#

129 65.9 76.7 115.1#

131 77.6 72.7 109.1

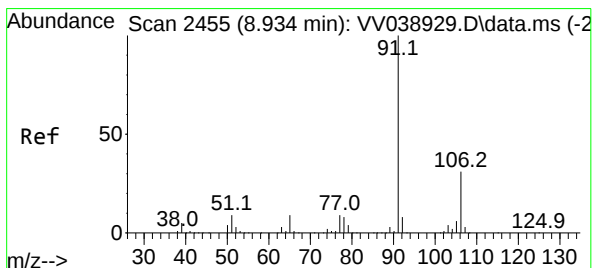
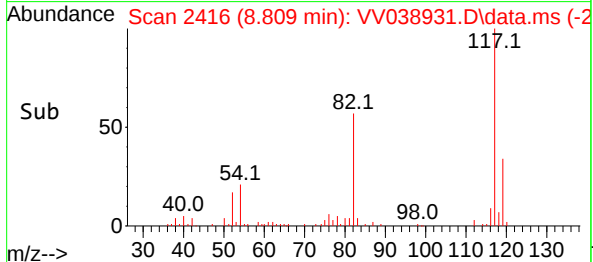
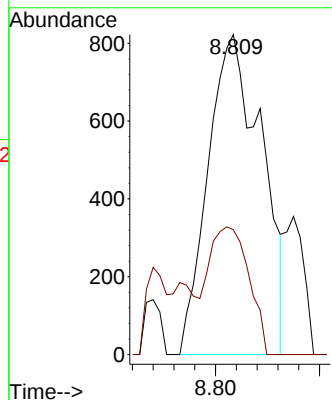
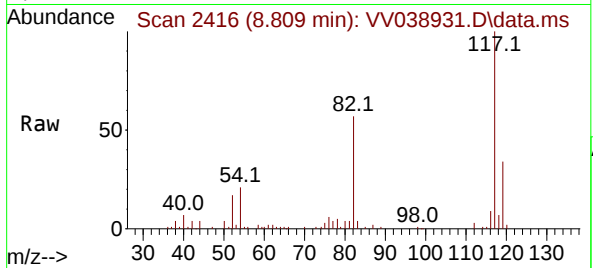




#65
Chlorobenzene
Concen: 0.111 ug/l
RT: 8.809 min Scan# 2414
Delta R.T. 0.006 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

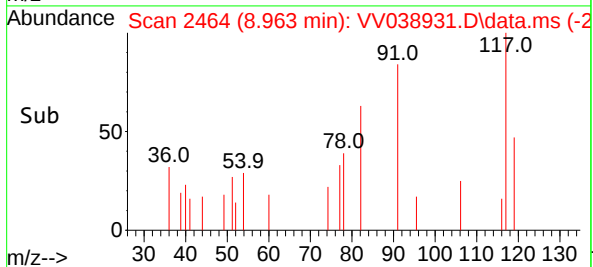
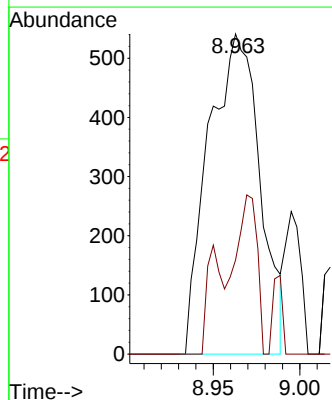
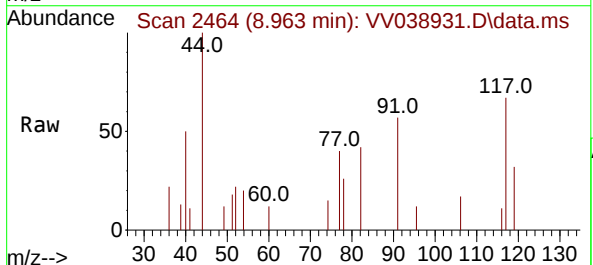
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

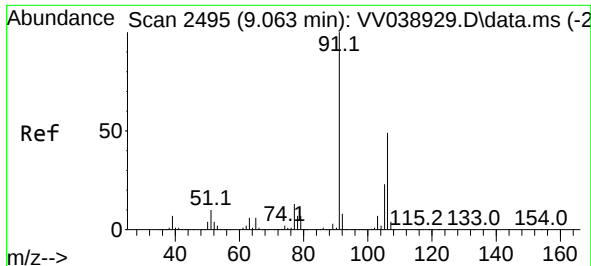
Tgt Ion:112 Resp: 1473
Ion Ratio Lower Upper
112 100
114 39.1 25.6 38.4#



#67
Ethyl Benzene
Concen: 0.057 ug/l
RT: 8.963 min Scan# 2464
Delta R.T. 0.029 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion: 91 Resp: 1114
Ion Ratio Lower Upper
91 100
106 29.4 25.0 37.6

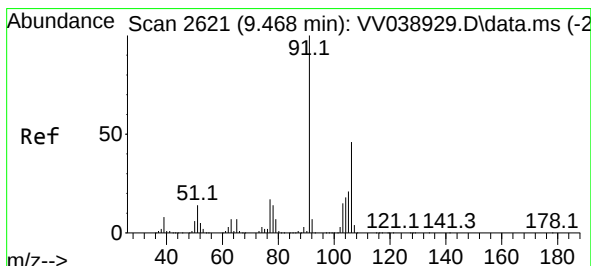
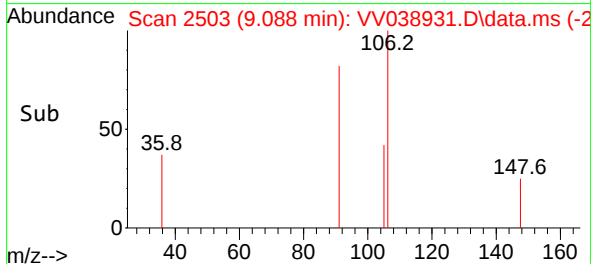
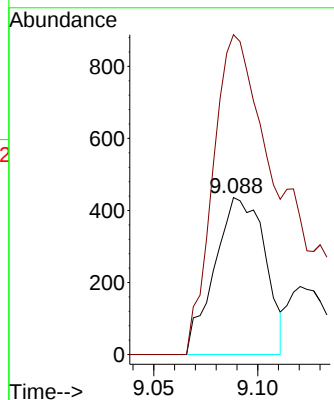
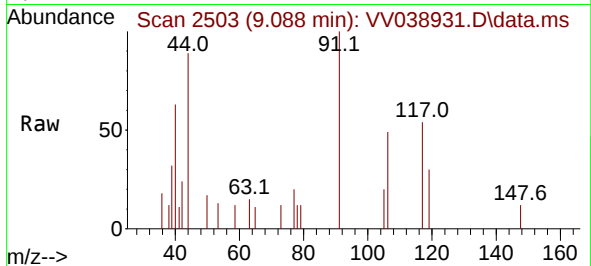




#68
m/p-Xylenes
Concen: 0.098 ug/l
RT: 9.088 min Scan# 21
Delta R.T. 0.026 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

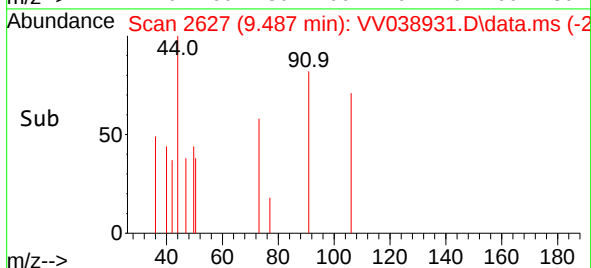
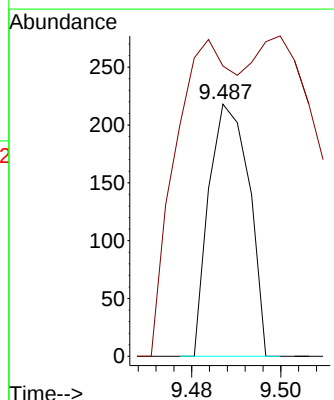
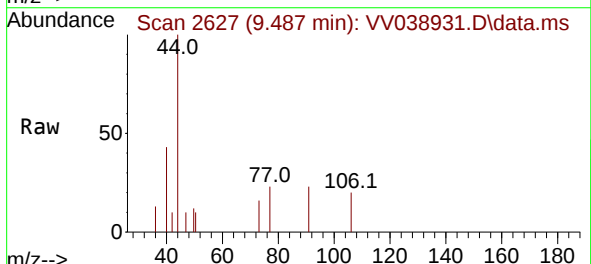
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

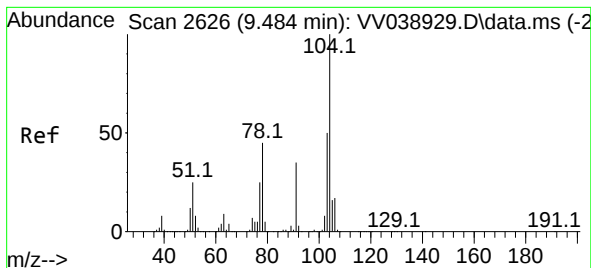
Tgt Ion:106 Resp: 736
Ion Ratio Lower Upper
106 100
91 281.0 163.4 245.2#



#69
o-Xylene
Concen: 0.019 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.019 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion:106 Resp: 136
Ion Ratio Lower Upper
106 100
91 192.6 109.1 327.3





#70

Styrene

Concen: 0.033 ug/l

RT: 9.548 min Scan# 2

Delta R.T. 0.064 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

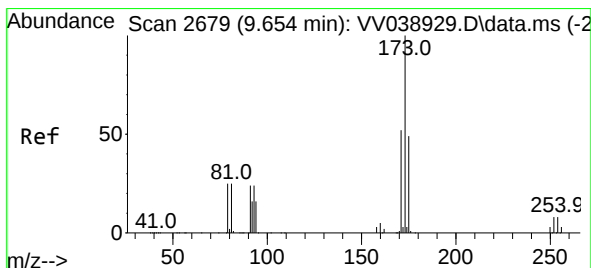
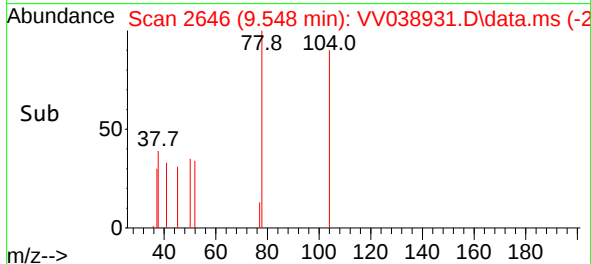
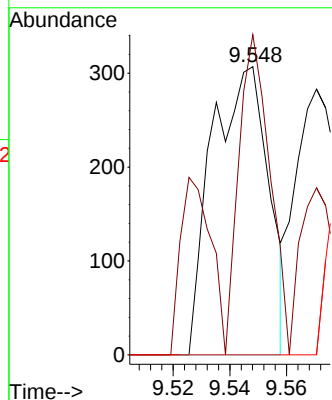
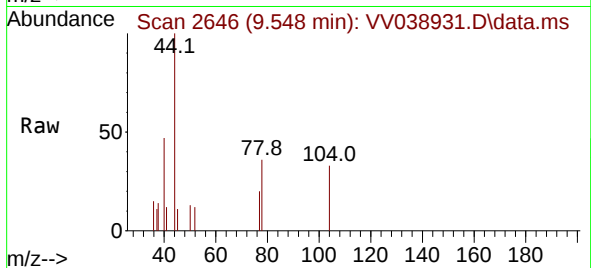
Tgt Ion:104 Resp: 425

Ion Ratio Lower Upper

104 100

78 60.9 39.8 59.6#

103 0.0 43.8 65.6#



#71

Bromoform

Concen: 0.102 ug/l

RT: 9.680 min Scan# 2687

Delta R.T. 0.026 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

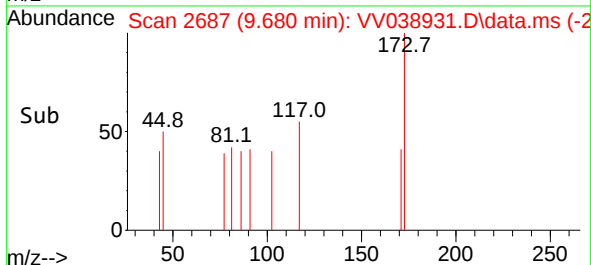
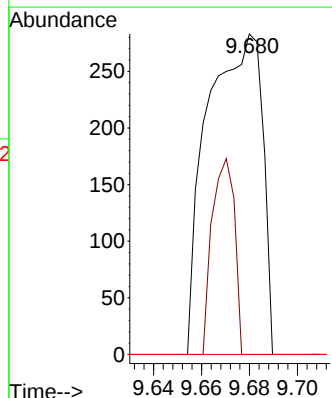
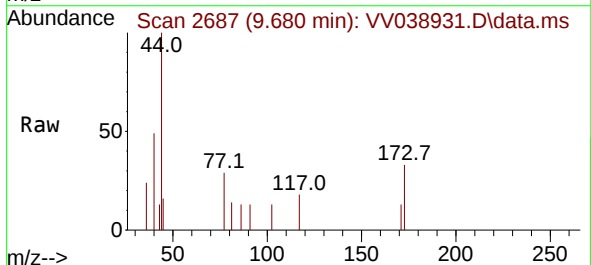
Tgt Ion:173 Resp: 448

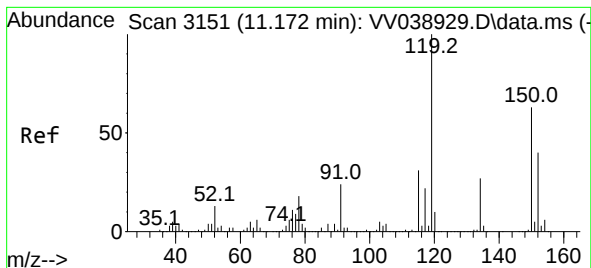
Ion Ratio Lower Upper

173 100

175 25.0 24.3 72.9

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

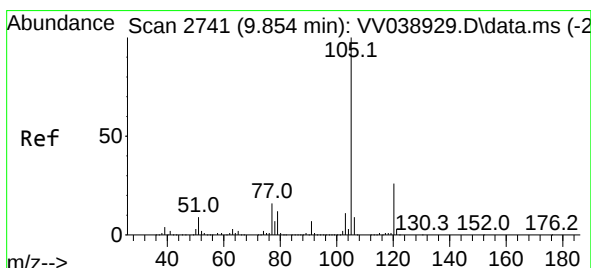
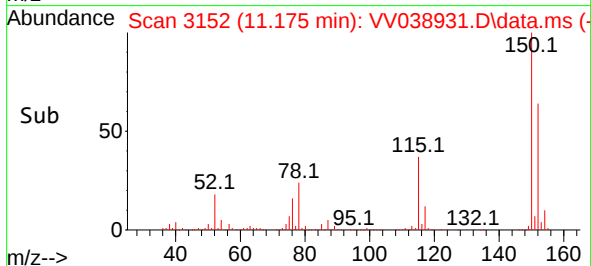
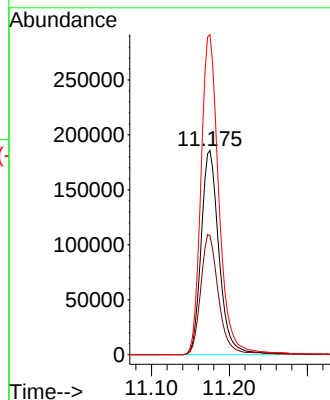
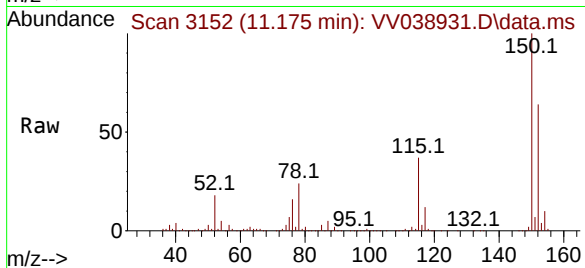
Tgt Ion:152 Resp: 295243

Ion Ratio Lower Upper

152 100

115 59.2 41.0 123.2

150 156.7 0.0 345.4



#73

Isopropylbenzene

Concen: 0.071 ug/l

RT: 9.866 min Scan# 2745

Delta R.T. 0.013 min

Lab File: VV038931.D

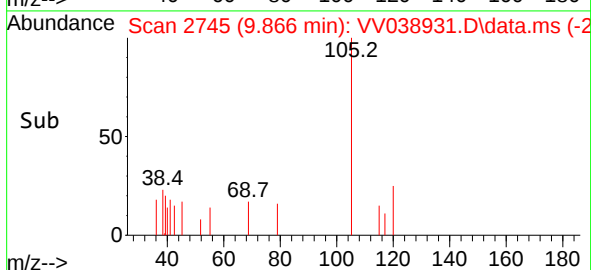
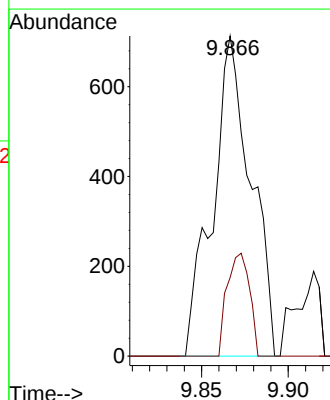
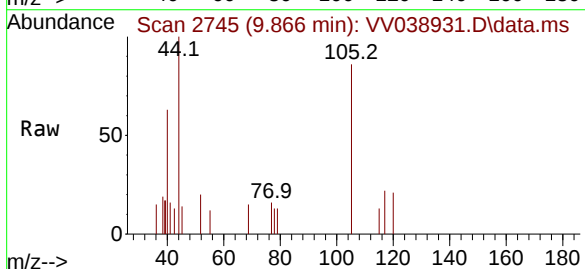
Acq: 08 Aug 2025 12:21

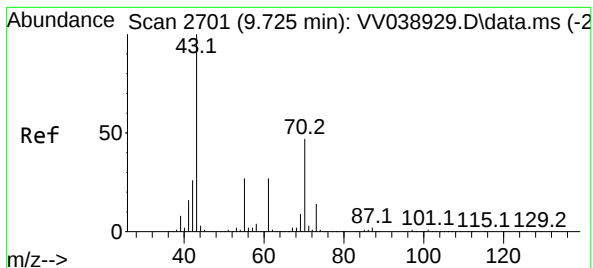
Tgt Ion:105 Resp: 1097

Ion Ratio Lower Upper

105 100

120 18.7 13.3 39.8





#74

N-amy1 acetate

Concen: 0.004 ug/l

RT: 9.709 min Scan# 2

Delta R.T. -0.016 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

Tgt Ion: 43 Resp: 19

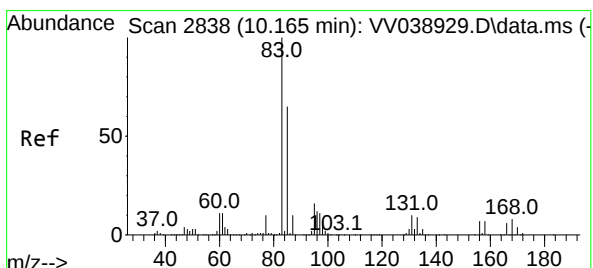
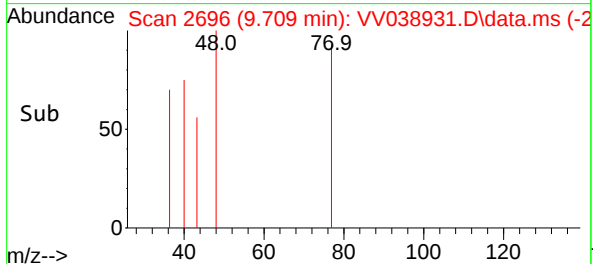
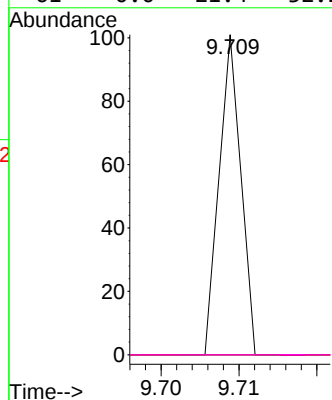
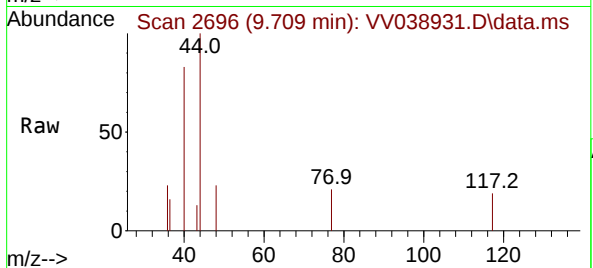
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 0.0 22.1 33.1#

61 0.0 21.4 32.2#



#75

1,1,2,2-Tetrachloroethane

Concen: 0.039 ug/l

RT: 10.185 min Scan# 2844

Delta R.T. 0.019 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

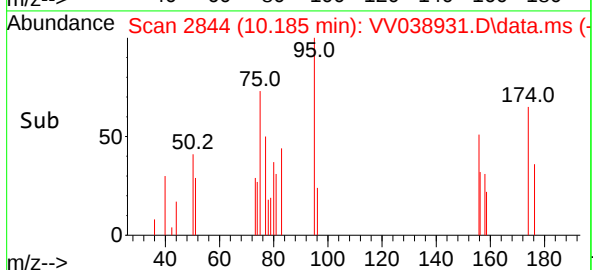
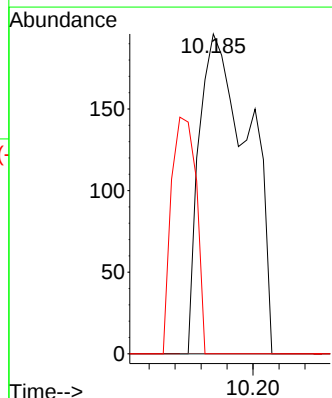
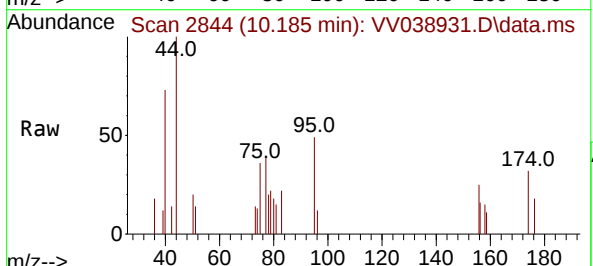
Tgt Ion: 83 Resp: 260

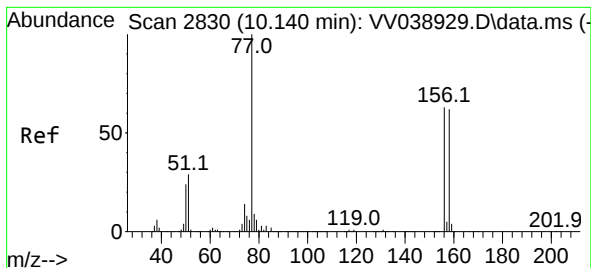
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 37.3 32.5 97.4





#77

Bromobenzene

Concen: 0.100 ug/l

RT: 10.159 min Scan# 21

Delta R.T. 0.019 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

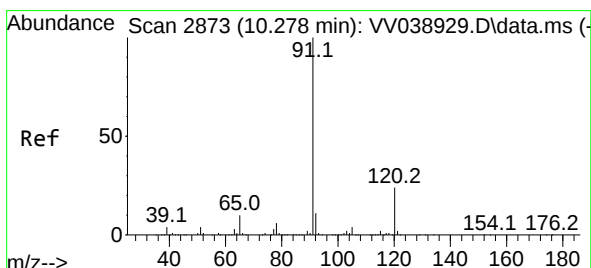
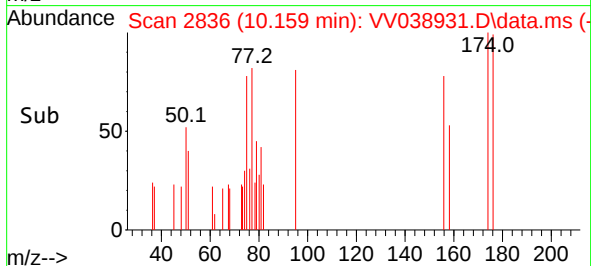
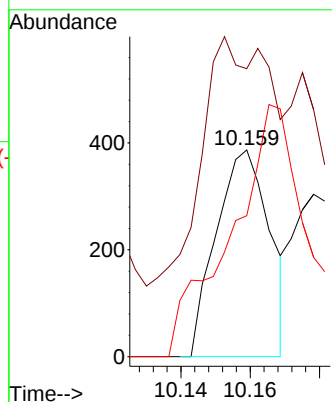
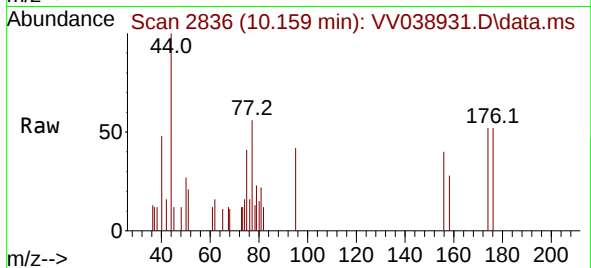
Tgt Ion:156 Resp: 414

Ion Ratio Lower Upper

156 100

77 146.9 78.8 236.5

158 175.1 49.6 148.8#



#78

n-propylbenzene

Concen: 0.113 ug/l

RT: 10.503 min Scan# 2943

Delta R.T. 0.225 min

Lab File: VV038931.D

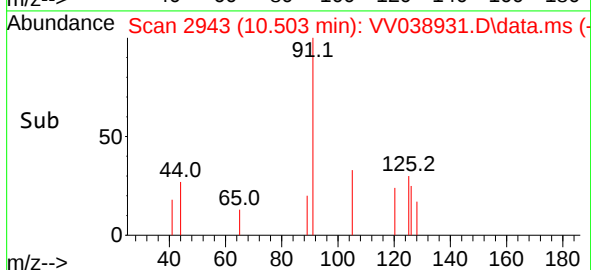
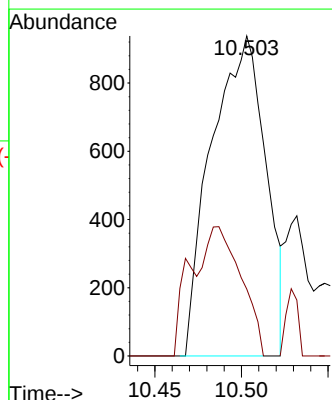
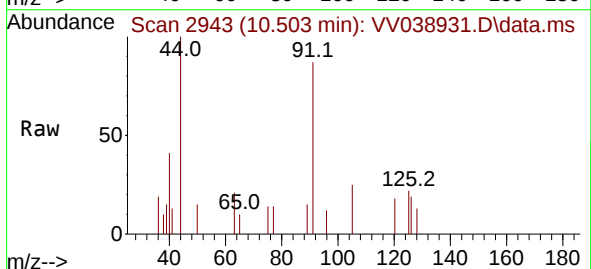
Acq: 08 Aug 2025 12:21

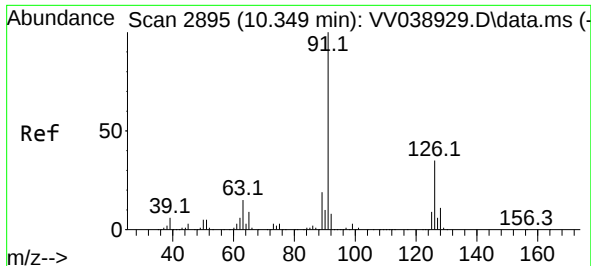
Tgt Ion: 91 Resp: 2046

Ion Ratio Lower Upper

91 100

120 27.8 11.9 35.7

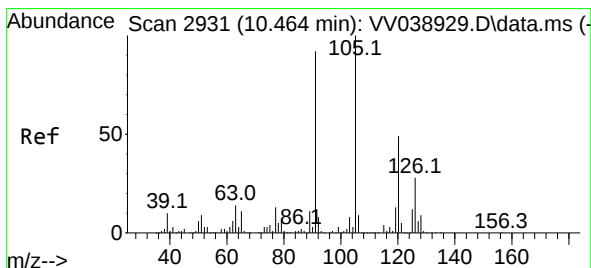
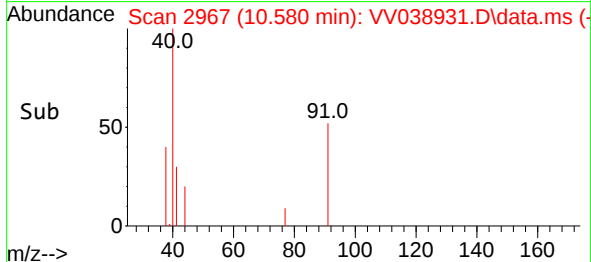
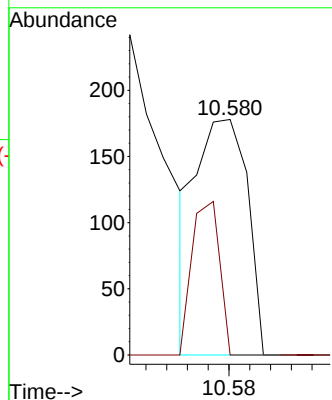
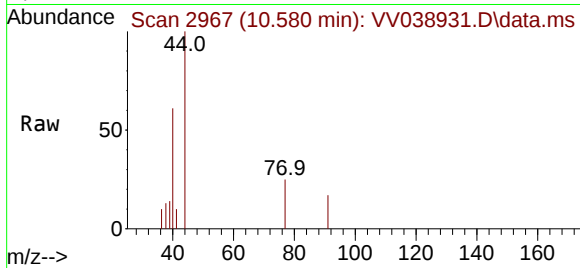




#79
2-Chlorotoluene
Concen: 0.011 ug/l
RT: 10.580 min Scan# 2967
Delta R.T. 0.231 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

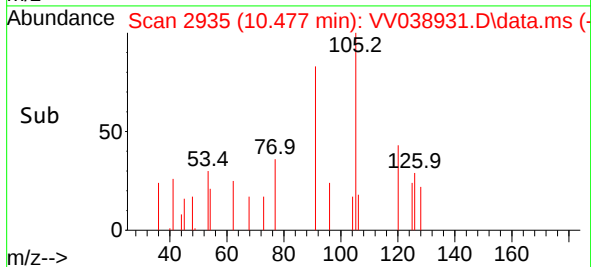
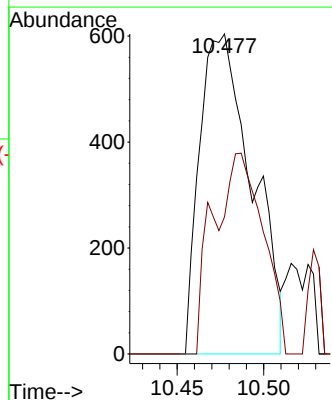
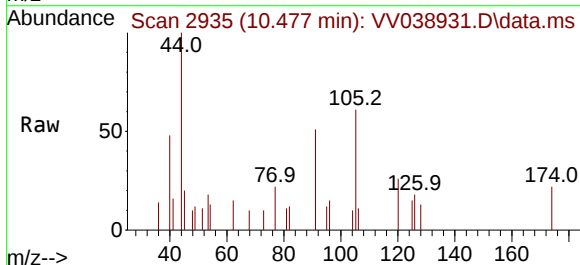
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

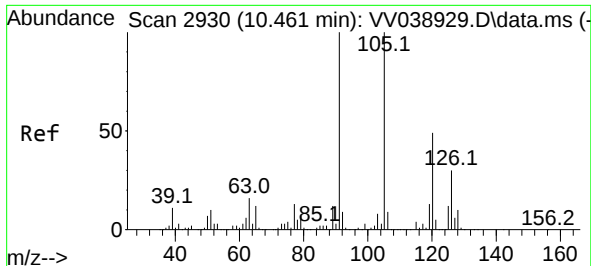
Tgt Ion: 91 Resp: 121
Ion Ratio Lower Upper
91 100
126 35.5 17.3 51.7



#80
1,3,5-Trimethylbenzene
Concen: 0.098 ug/l
RT: 10.477 min Scan# 2935
Delta R.T. 0.013 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion: 105 Resp: 1272
Ion Ratio Lower Upper
105 100
120 14.8 24.6 73.6#

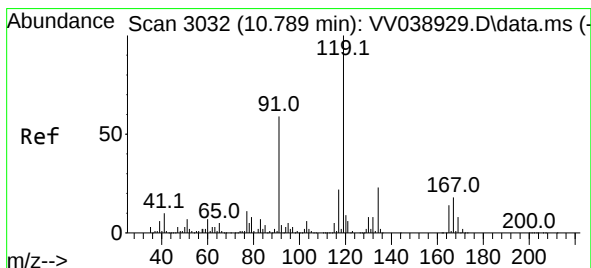
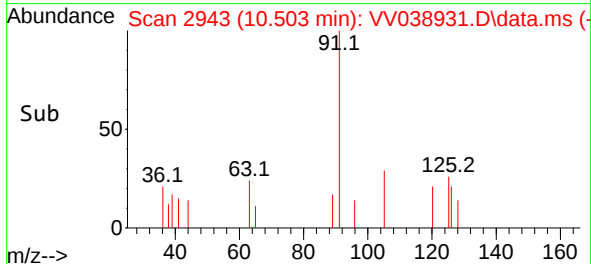
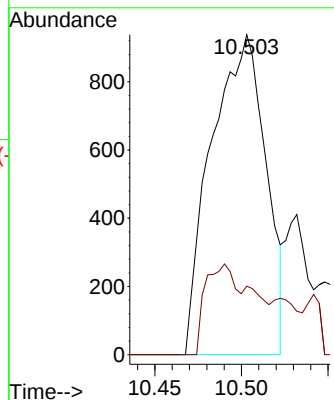
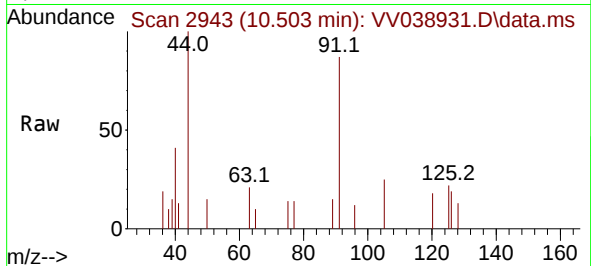




#82
4-Chlorotoluene
Concen: 0.157 ug/l
RT: 10.503 min Scan# 2930
Delta R.T. 0.042 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

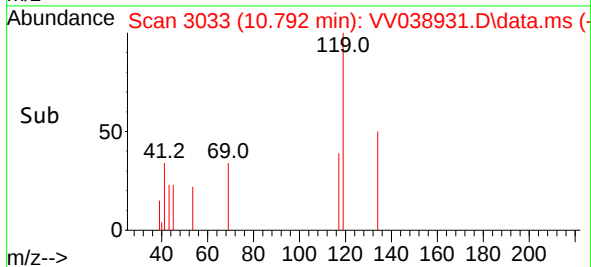
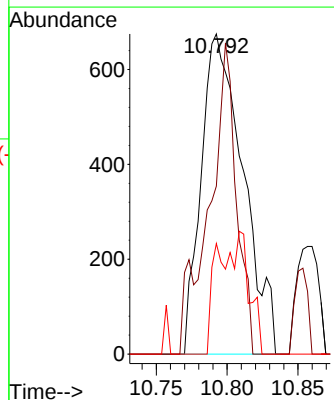
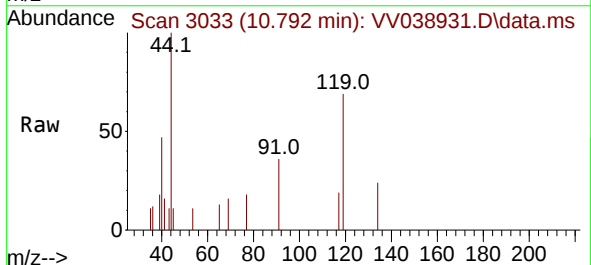
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

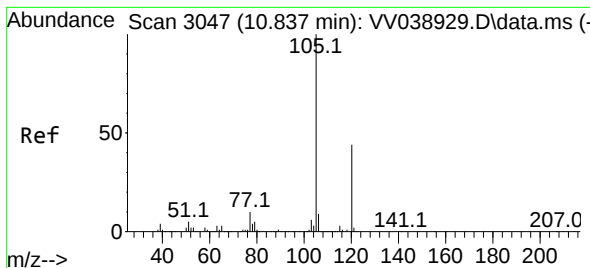
Tgt Ion: 91 Resp: 2046
Ion Ratio Lower Upper
91 100
126 16.7 15.0 45.0



#83
tert-Butylbenzene
Concen: 0.100 ug/l
RT: 10.792 min Scan# 3033
Delta R.T. 0.003 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion: 119 Resp: 1387
Ion Ratio Lower Upper
119 100
91 56.6 28.5 85.5
134 11.0 11.5 34.4#





#84

1,2,4-Trimethylbenzene

Concen: 0.043 ug/l

RT: 10.860 min Scan# 3047

Delta R.T. 0.022 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

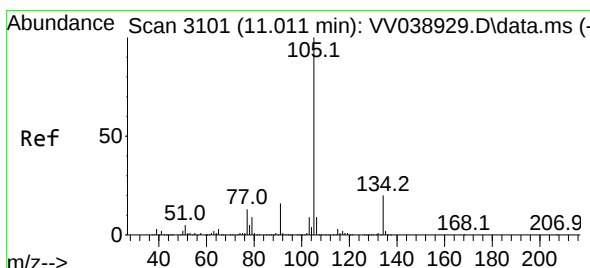
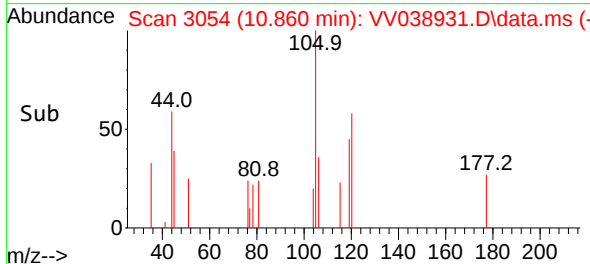
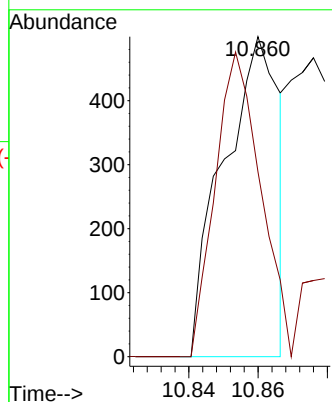
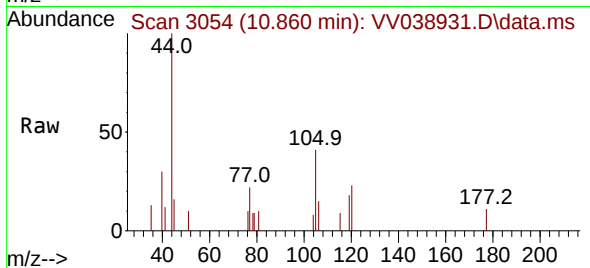
VIBLK

Tgt Ion:105 Resp: 557

Ion Ratio Lower Upper

105 100

120 77.7 23.2 69.5#



#85

sec-Butylbenzene

Concen: 0.119 ug/l

RT: 11.017 min Scan# 3103

Delta R.T. 0.006 min

Lab File: VV038931.D

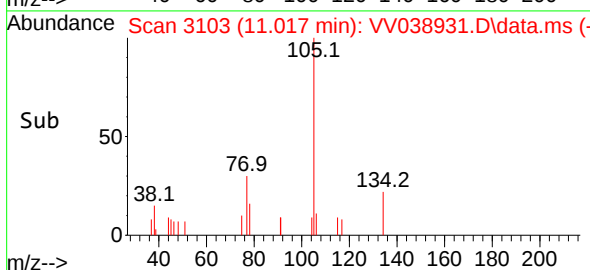
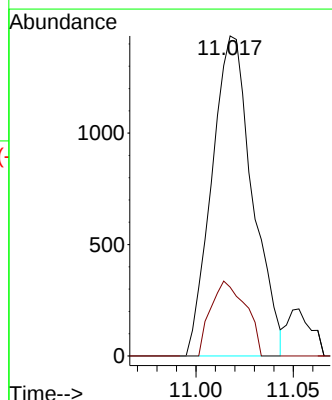
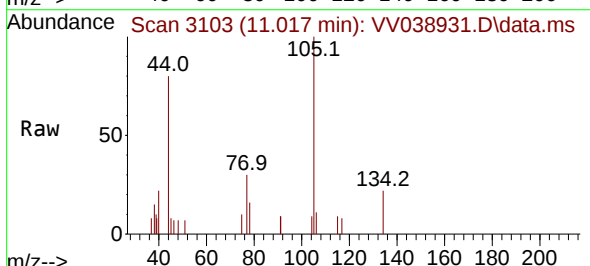
Acq: 08 Aug 2025 12:21

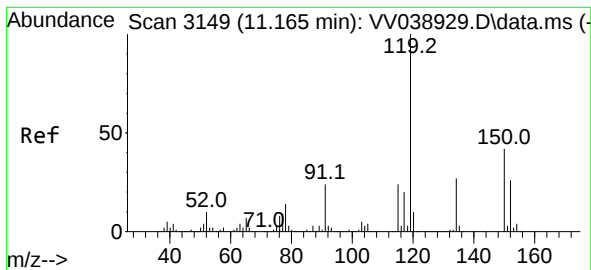
Tgt Ion:105 Resp: 2087

Ion Ratio Lower Upper

105 100

134 20.1 10.2 30.4





#86

p-Isopropyltoluene

Concen: 0.177 ug/l

RT: 11.172 min Scan# 3149

Delta R.T. 0.006 min

Lab File: VV038931.D

Acq: 08 Aug 2025 12:21

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

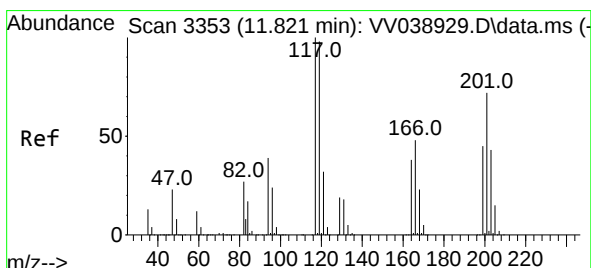
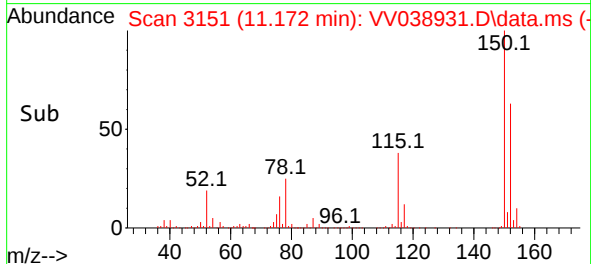
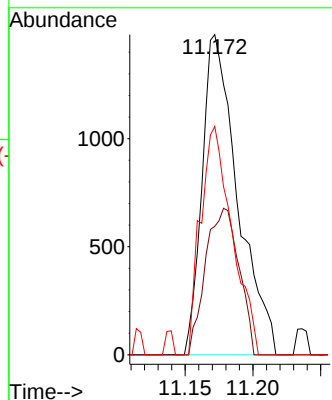
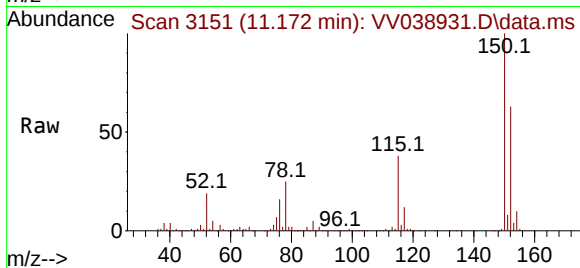
Tgt Ion:119 Resp: 2704

Ion Ratio Lower Upper

119 100

134 42.9 13.2 39.6#

91 63.2 12.2 36.4#



#90

Hexachloroethane

Concen: 0.052 ug/l

RT: 11.821 min Scan# 3353

Delta R.T. -0.000 min

Lab File: VV038931.D

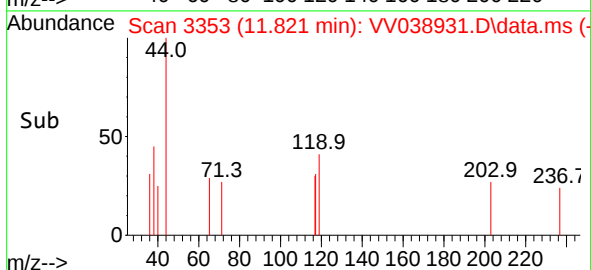
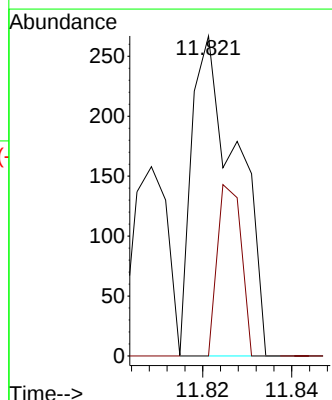
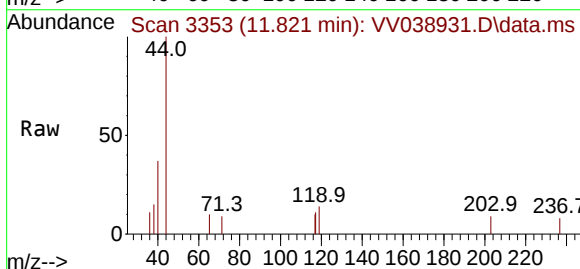
Acq: 08 Aug 2025 12:21

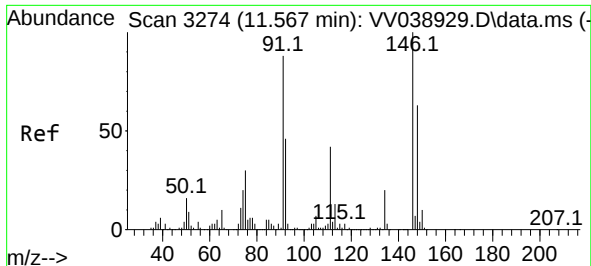
Tgt Ion:117 Resp: 188

Ion Ratio Lower Upper

117 100

201 28.2 34.8 104.5#

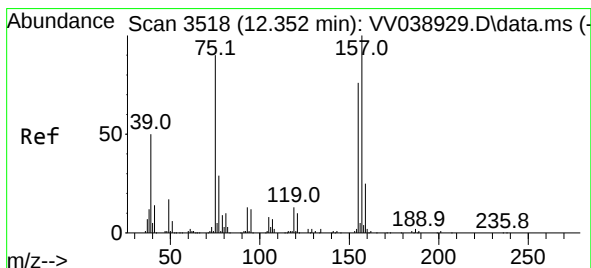
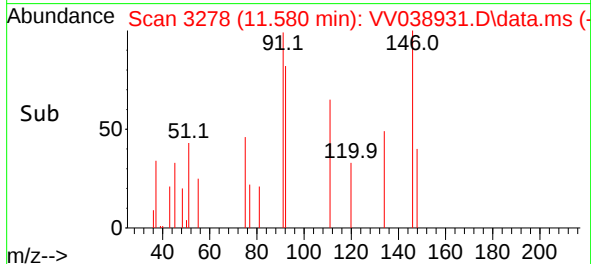
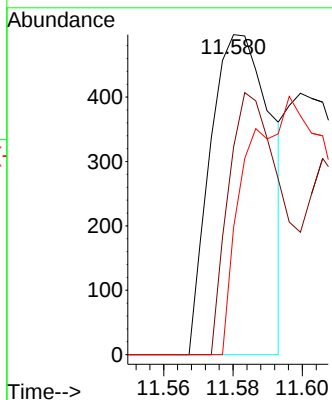
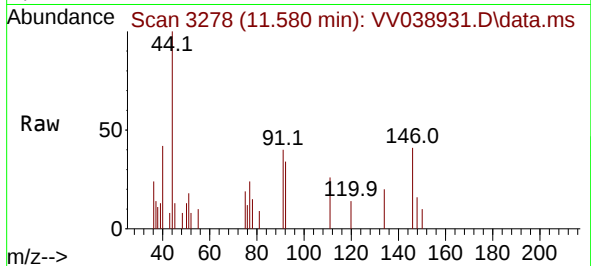




#91
1,2-Dichlorobenzene
Concen: 0.074 ug/l
RT: 11.580 min Scan# 31
Delta R.T. 0.013 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Instrument :
MSVOA_V
ClientSampleId :
VIBLK

Tgt Ion:146 Resp: 606
Ion Ratio Lower Upper
146 100
111 73.6 21.1 63.3#
148 0.0 32.1 96.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.015 ug/l
RT: 12.361 min Scan# 3521
Delta R.T. 0.010 min
Lab File: VV038931.D
Acq: 08 Aug 2025 12:21

Tgt Ion: 75 Resp: 22
Ion Ratio Lower Upper
75 100
155 0.0 41.4 124.2#
157 0.0 53.6 160.8#

