

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111325\
 Data File : VY023781.D
 Acq On : 13 Nov 2025 13:01
 Operator : SY/MD
 Sample : Q3618-02
 Misc : 7.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EME-GENERAL-FILL

Quant Time: Nov 14 04:25:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

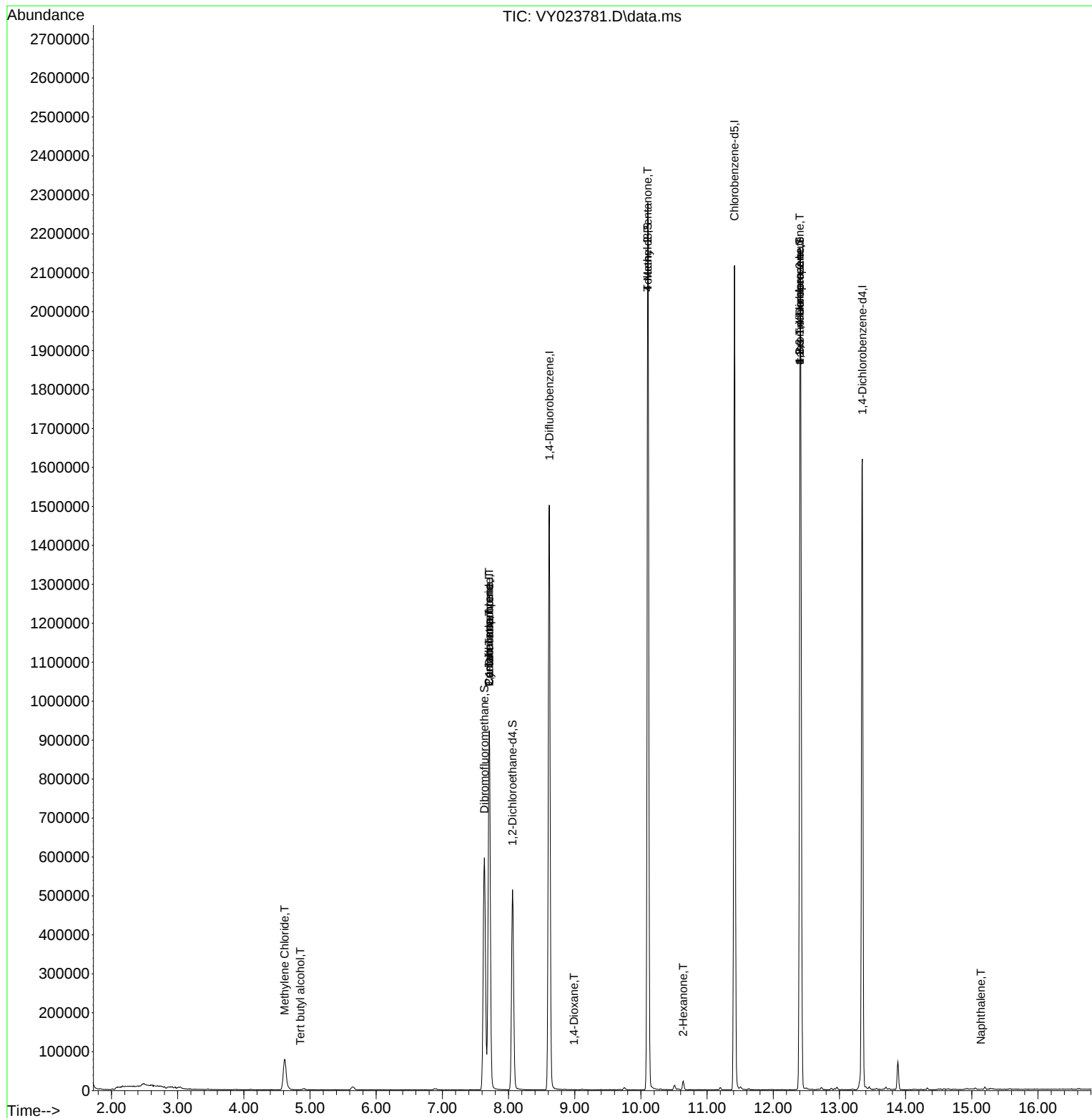
Internal Standards						
1) Pentafluorobenzene	7.707	168	750284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1336736	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1138969	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	437964	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	407415	63.658	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 127.320%	
35) Dibromofluoromethane	7.634	113	434694	52.036	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.080%	
50) Toluene-d8	10.103	98	1533898	49.293	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.580%	
62) 4-Bromofluorobenzene	12.401	95	449949	44.712	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 89.420%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.854	59	487	1.180	ug/l #	74
20) Methylene Chloride	4.616	84	64227	8.363	ug/l	97
31) Cyclohexane	7.707	56	13741	1.303	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	52895	4.739	ug/l #	47
38) Carbon Tetrachloride	7.707	117	70411	5.354	ug/l #	18
49) 1,4-Dioxane	8.987	88	75	1.523	ug/l #	1
51) 4-Methyl-2-Pentanone	10.103	43	6179	1.431	ug/l #	1
59) 2-Hexanone	10.640	43	7344	2.331	ug/l #	22
76) 1,2,3-Trichloropropane	12.401	75	228658	64.511	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	228658	145.791	ug/l #	15
95) Naphthalene	15.139	128	1014	5.332	ug/l #	78

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

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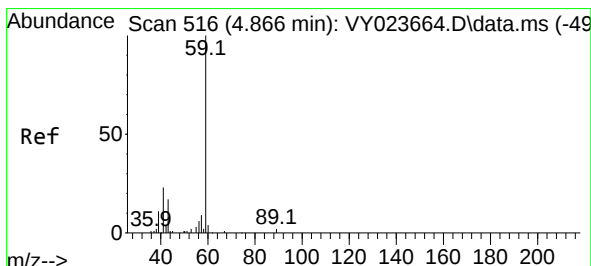
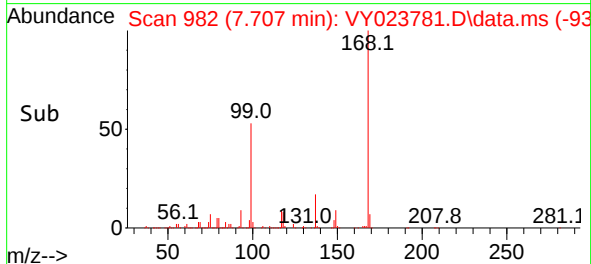
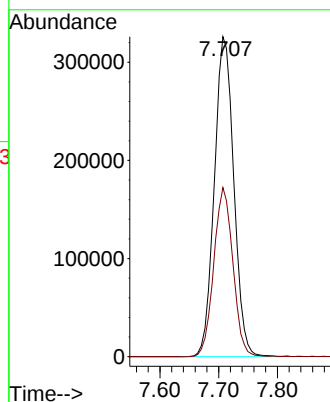
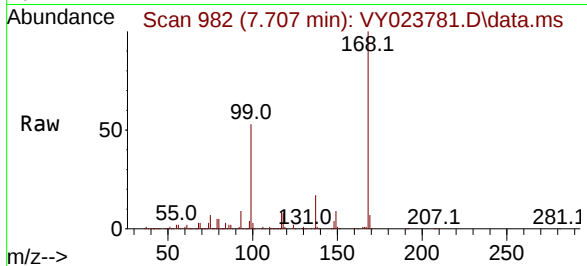




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

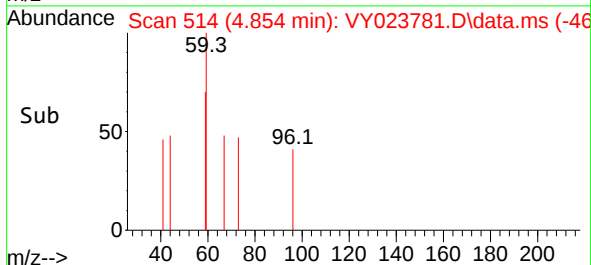
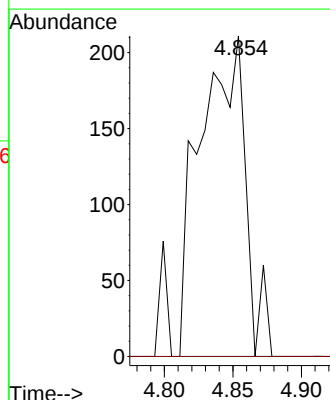
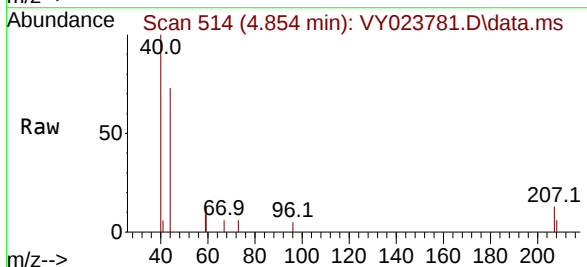
Instrument :
MSVOA_Y
ClientSampleId :
EME-GENERAL-FILL

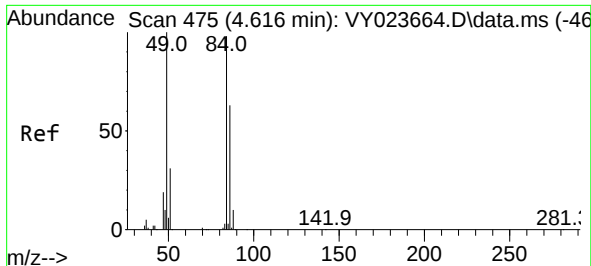
Tgt Ion:168 Resp: 750284
Ion Ratio Lower Upper
168 100
99 52.9 41.0 61.4



#11
Tert butyl alcohol
Concen: 1.180 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.012 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

Tgt Ion: 59 Resp: 487
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



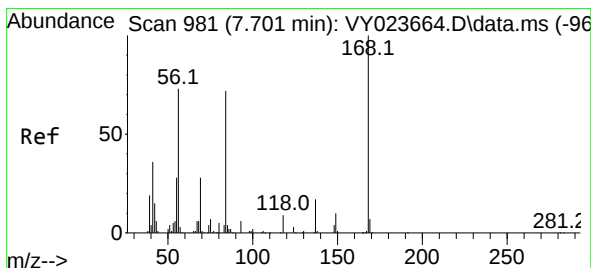
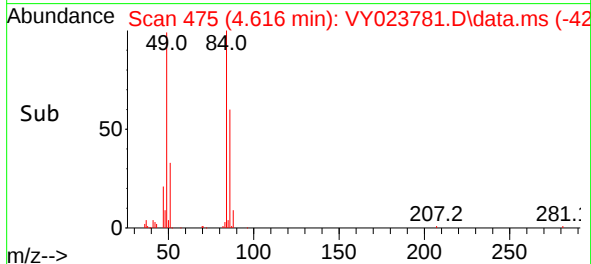
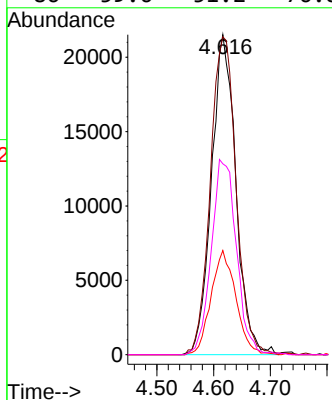
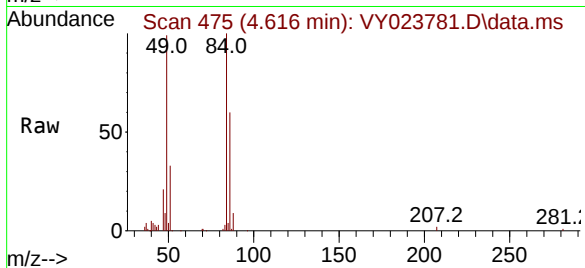


#20
Methylene Chloride
Concen: 8.363 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

Instrument :
MSVOA_Y
ClientSampleId :
EME-GENERAL-FILL

Tgt Ion: 84 Resp: 64227

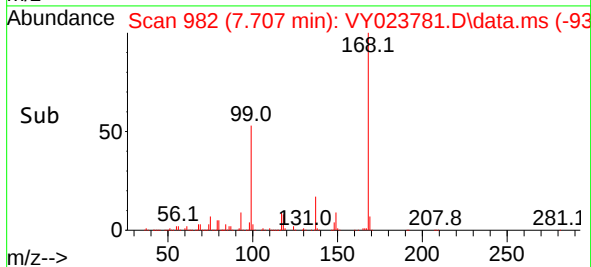
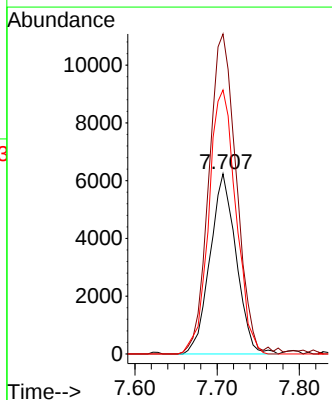
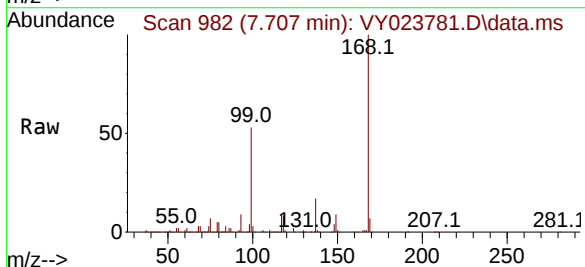
Ion	Ratio	Lower	Upper
84	100		
49	99.4	81.5	122.3
51	32.6	25.5	38.3
86	59.6	51.2	76.8

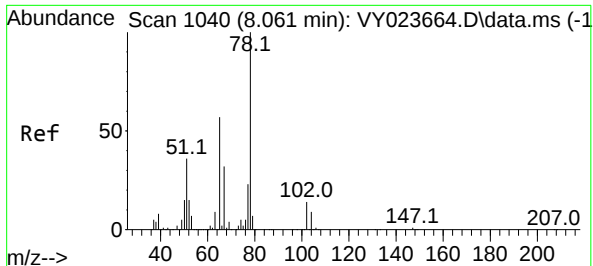


#31
Cyclohexane
Concen: 1.303 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

Tgt Ion: 56 Resp: 13741

Ion	Ratio	Lower	Upper
56	100		
69	177.5	30.5	45.7#
84	146.5	79.0	118.4#





#33

1,2-Dichloroethane-d4

Concen: 63.658 ug/l

RT: 8.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY023781.D

Acq: 13 Nov 2025 13:01

Instrument :

MSVOA_Y

ClientSampleId :

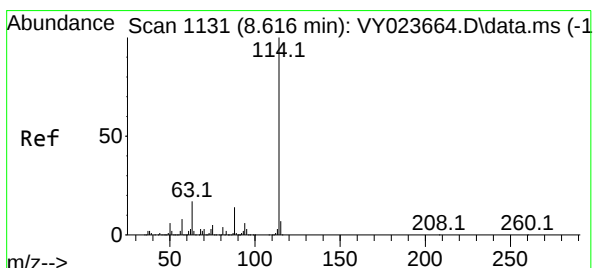
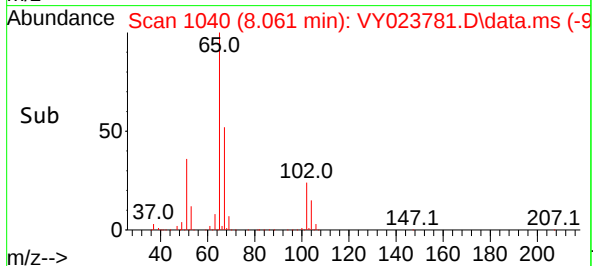
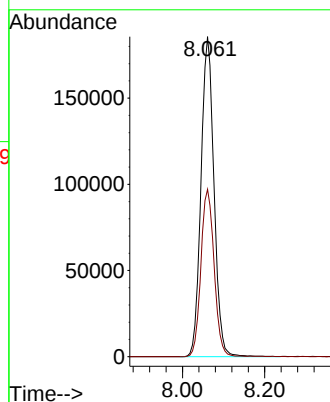
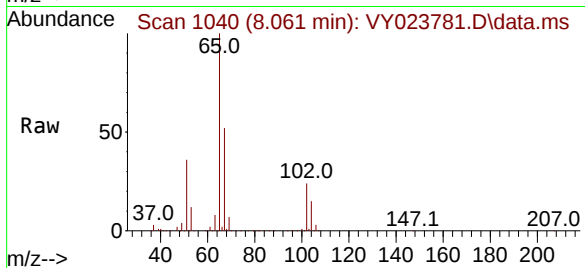
EME-GENERAL-FILL

Tgt Ion: 65 Resp: 407415

Ion Ratio Lower Upper

65 100

67 53.1 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023781.D

Acq: 13 Nov 2025 13:01

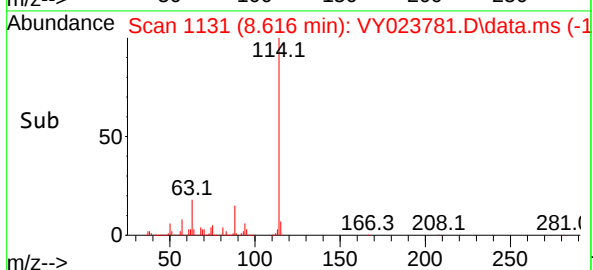
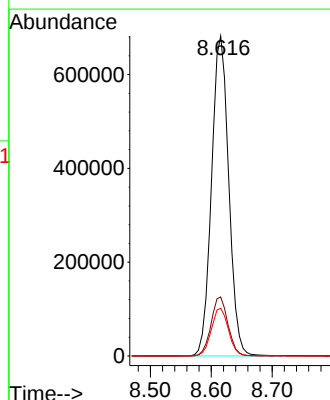
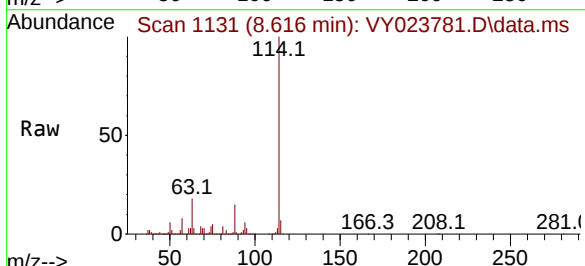
Tgt Ion: 114 Resp: 1336736

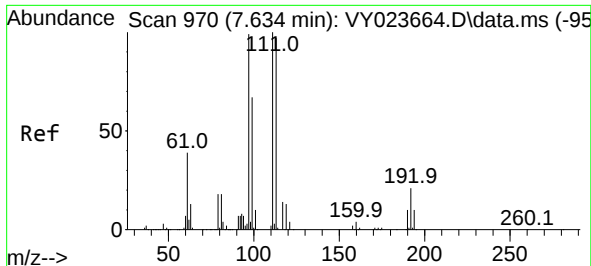
Ion Ratio Lower Upper

114 100

63 18.5 0.0 33.8

88 14.9 0.0 29.0

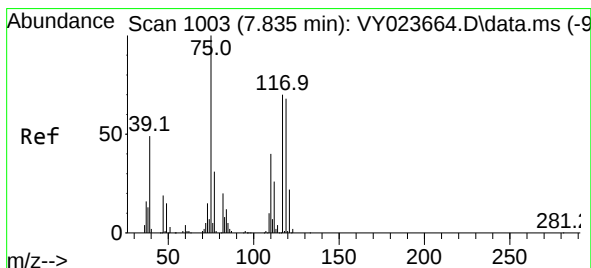
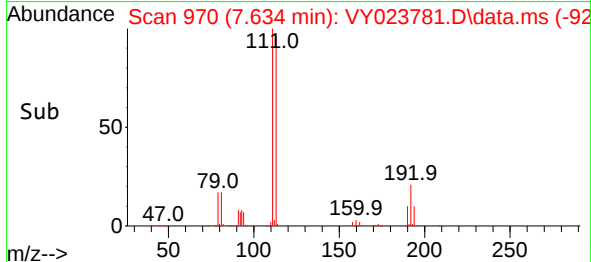
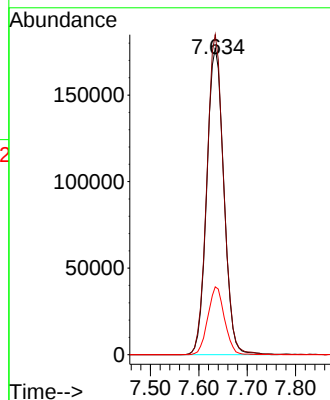
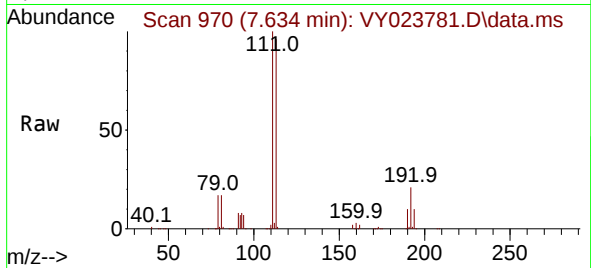




#35
Dibromofluoromethane
Concen: 52.036 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

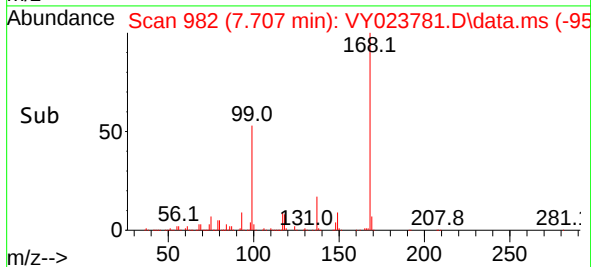
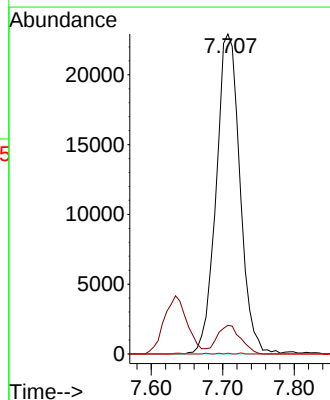
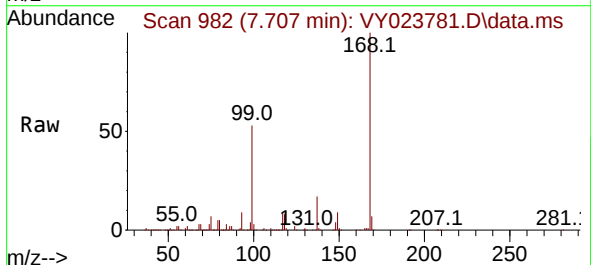
Instrument :
MSVOA_Y
ClientSampleId :
EME-GENERAL-FILL

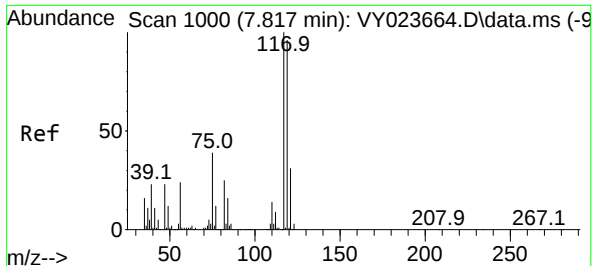
Tgt Ion:113 Resp: 434694
Ion Ratio Lower Upper
113 100
111 102.6 82.2 123.4
192 21.6 17.3 25.9



#36
1,1-Dichloropropene
Concen: 4.739 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

Tgt Ion: 75 Resp: 52895
Ion Ratio Lower Upper
75 100
110 8.8 19.7 59.0#
77 0.1 25.2 37.8#

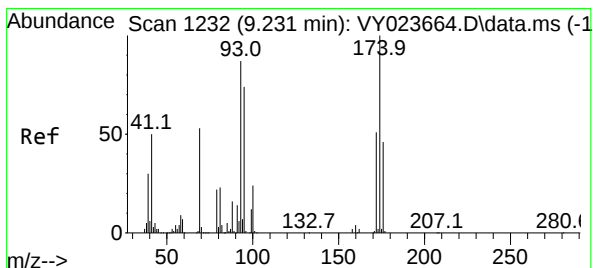
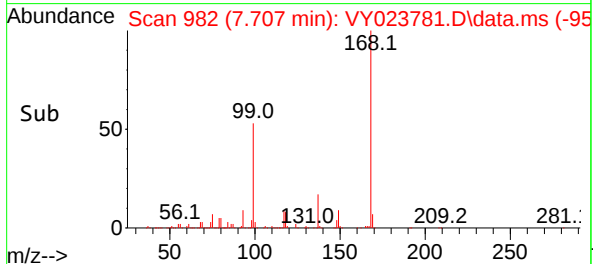
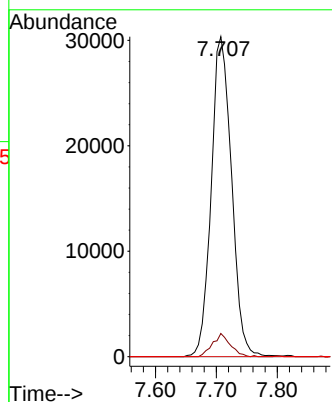
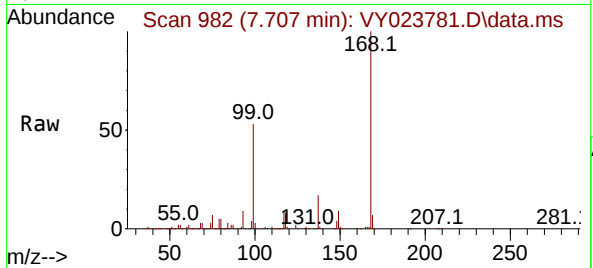




#38
Carbon Tetrachloride
Concen: 5.354 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

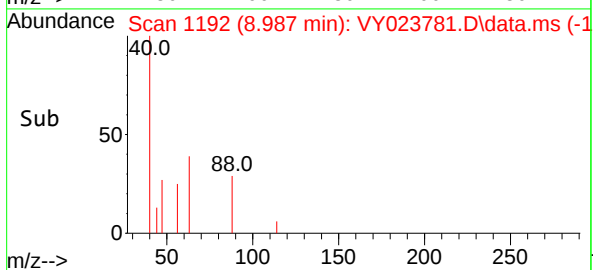
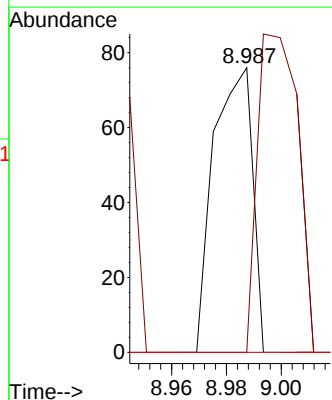
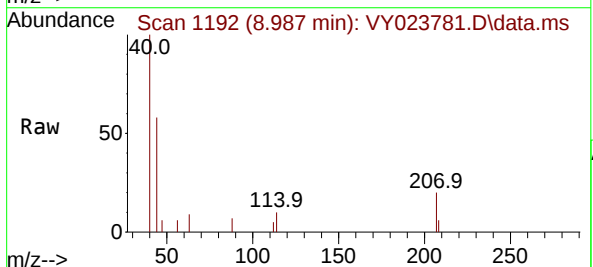
Instrument :
MSVOA_Y
ClientSampleId :
EME-GENERAL-FILL

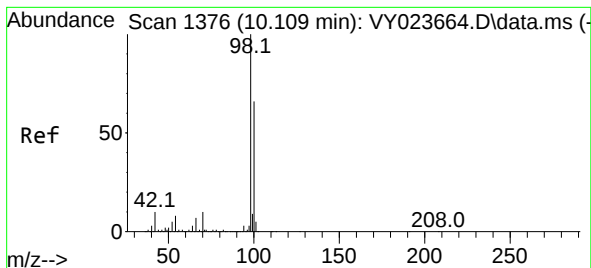
Tgt Ion:117 Resp: 70411
Ion Ratio Lower Upper
117 100
119 7.3 76.3 114.5#
121 0.0 24.8 37.2#



#49
1,4-Dioxane
Concen: 1.523 ug/l
RT: 8.987 min Scan# 1192
Delta R.T. -0.244 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

Tgt Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 116.0 22.0 33.0#
58 0.0 47.8 71.8#

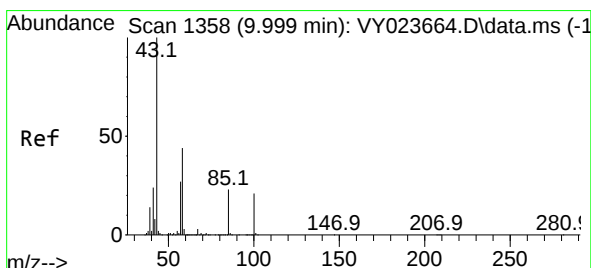
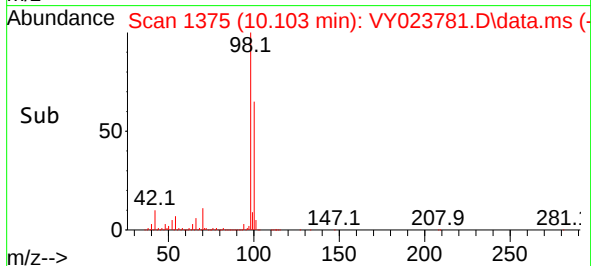
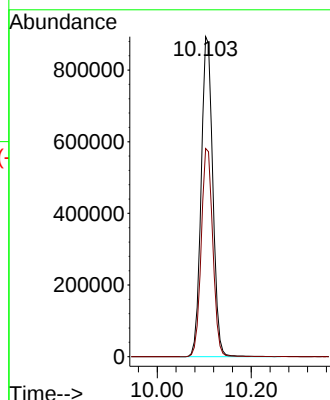
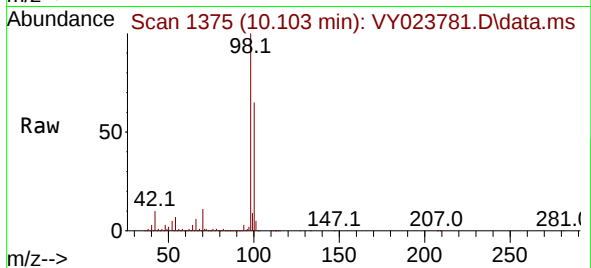




#50
Toluene-d8
Concen: 49.293 ug/l
RT: 10.103 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

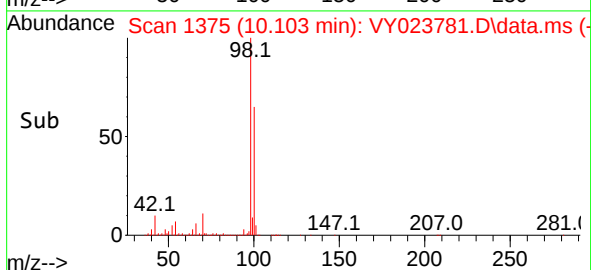
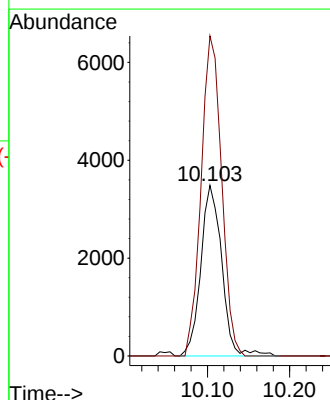
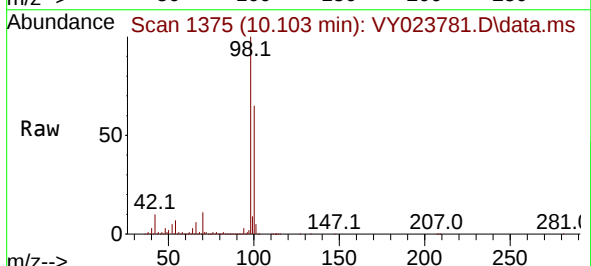
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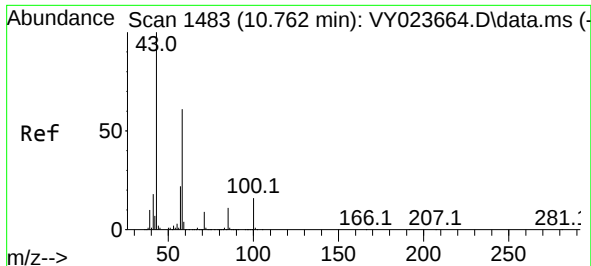
Tgt Ion: 98 Resp: 1533898
Ion Ratio Lower Upper
98 100
100 64.8 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 1.431 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.104 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

Tgt Ion: 43 Resp: 6179
Ion Ratio Lower Upper
43 100
58 183.3 34.8 52.2#

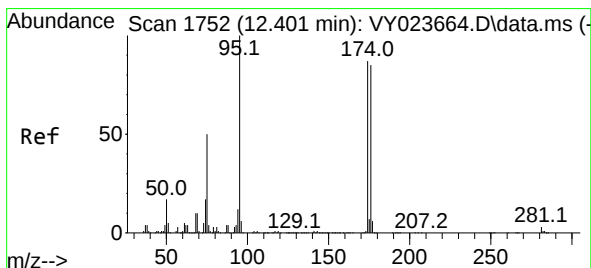
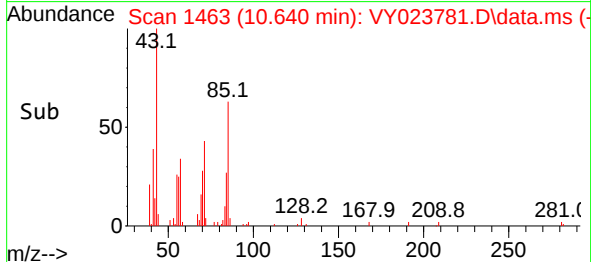
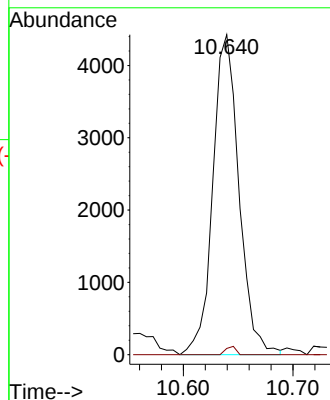
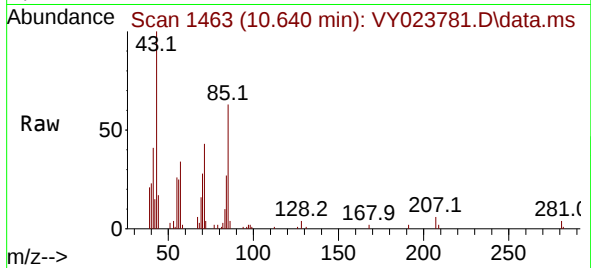




#59
2-Hexanone
Concen: 2.331 ug/l
RT: 10.640 min Scan# 1483
Delta R.T. -0.122 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

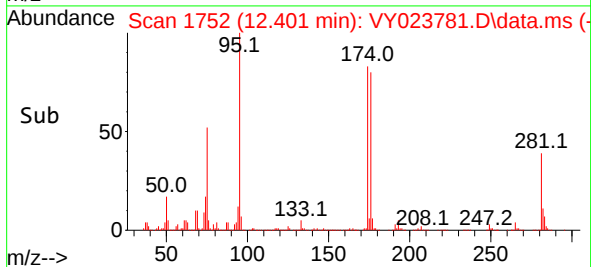
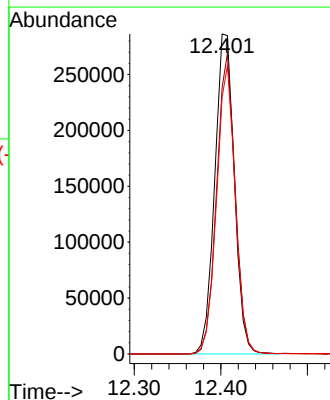
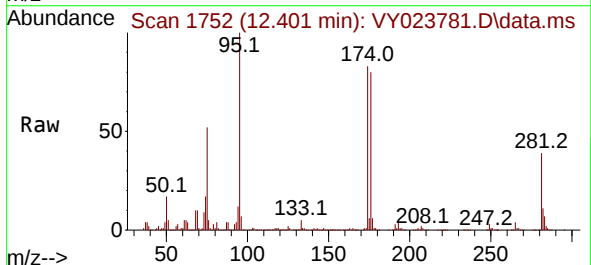
Instrument :
MSVOA_Y
ClientSampleId :
EME-GENERAL-FILL

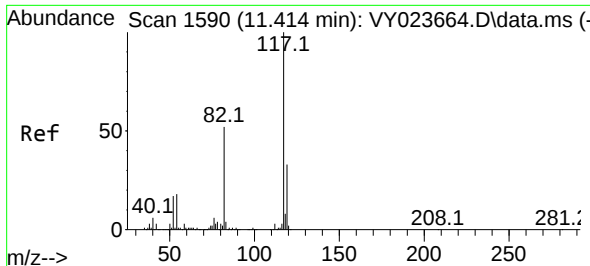
Tgt Ion: 43 Resp: 7344
Ion Ratio Lower Upper
43 100
58 1.0 30.2 90.6#



#62
4-Bromofluorobenzene
Concen: 44.712 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

Tgt Ion: 95 Resp: 449949
Ion Ratio Lower Upper
95 100
174 89.2 0.0 184.8
176 86.0 0.0 181.6

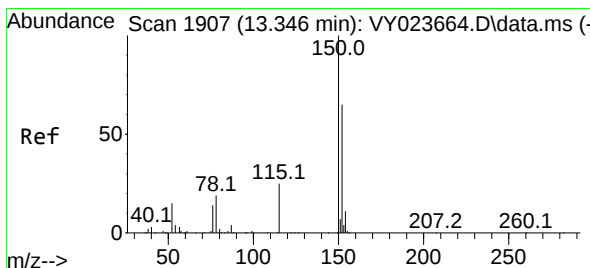
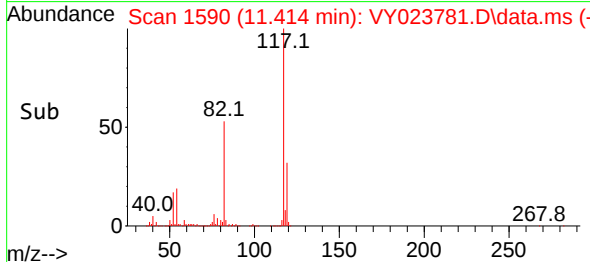
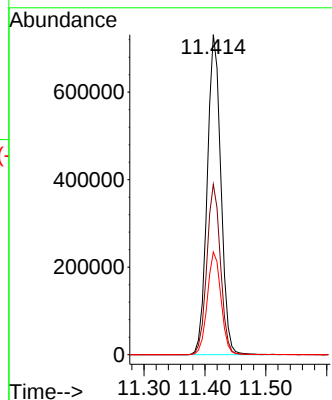
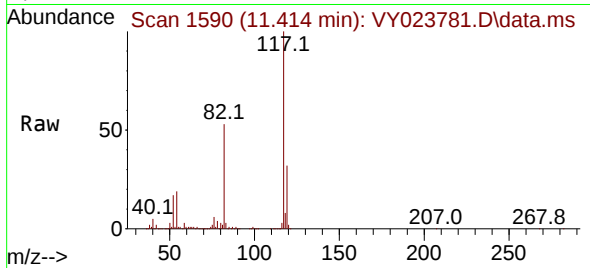




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

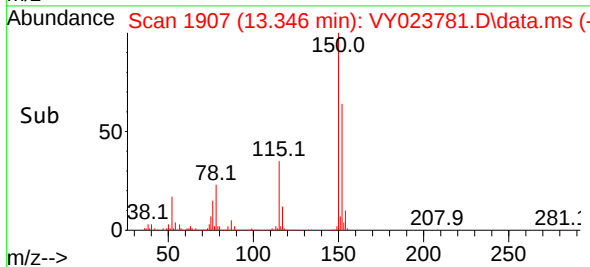
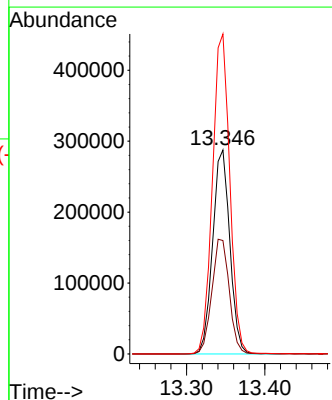
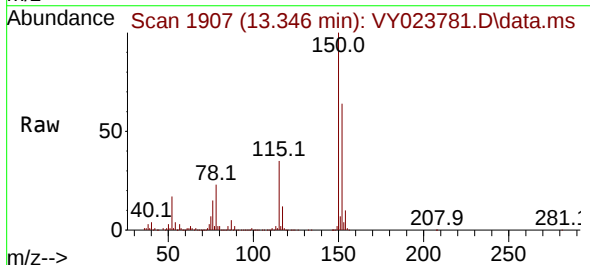
Instrument :
MSVOA_Y
ClientSampleId :
EME-GENERAL-FILL

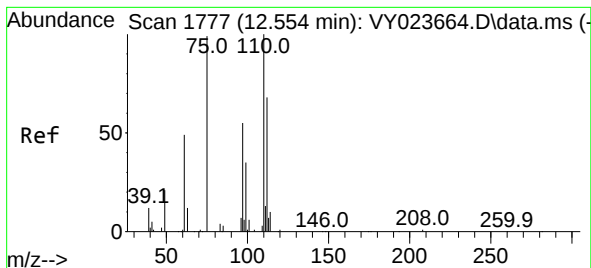
Tgt Ion:117 Resp: 1138969
Ion Ratio Lower Upper
117 100
82 53.3 41.2 61.8
119 32.1 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

Tgt Ion:152 Resp: 437964
Ion Ratio Lower Upper
152 100
115 57.2 27.5 82.5
150 158.0 0.0 349.0

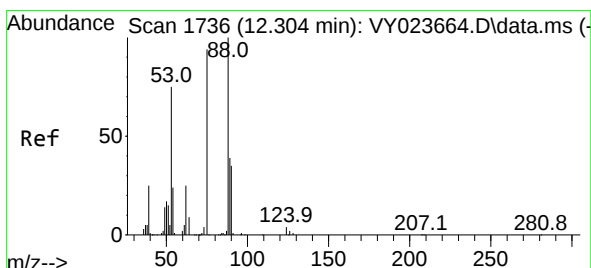
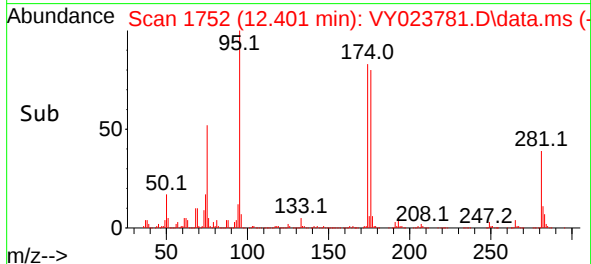
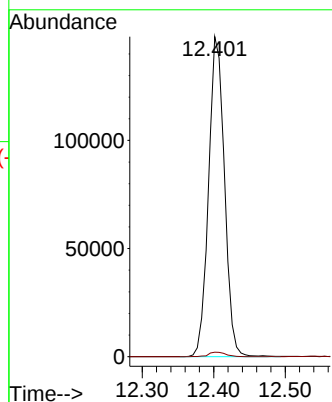
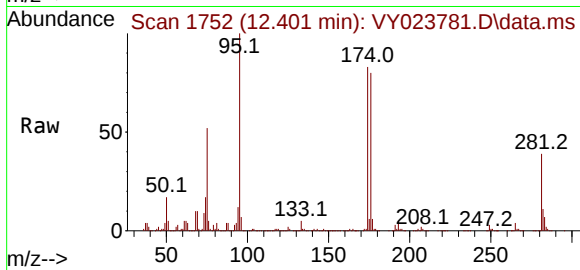




#76
1,2,3-Trichloropropane
Concen: 64.511 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

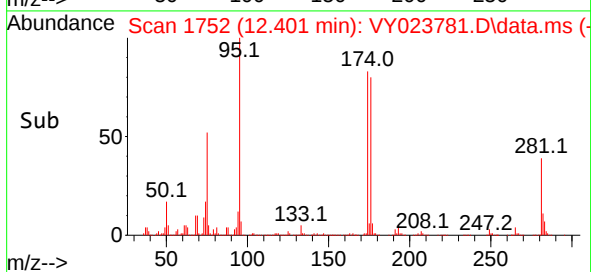
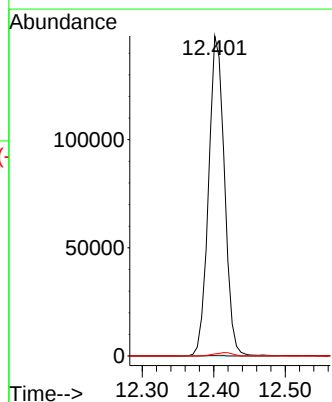
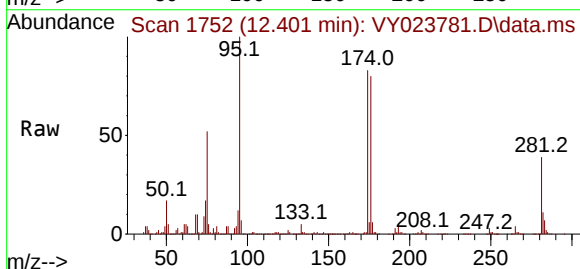
Instrument :
MSVOA_Y
ClientSampleId :
EME-GENERAL-FILL

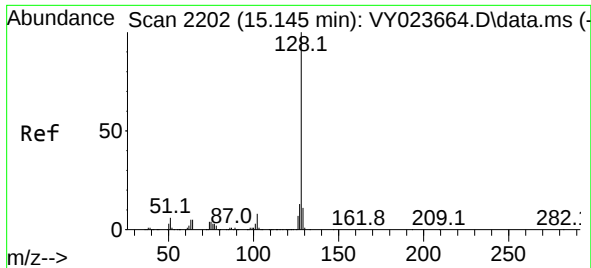
Tgt Ion: 75 Resp: 228658
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 145.791 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.097 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

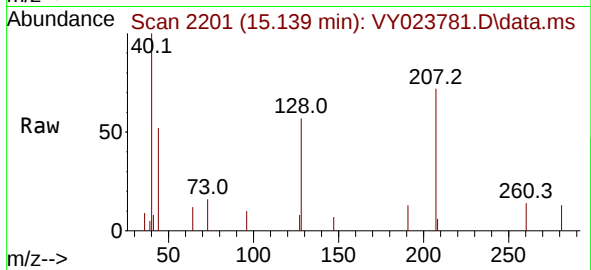
Tgt Ion: 75 Resp: 228658
Ion Ratio Lower Upper
75 100
53 0.2 69.6 104.4#
89 1.2 38.2 57.4#





#95
Naphthalene
Concen: 5.332 ug/l
RT: 15.139 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY023781.D
Acq: 13 Nov 2025 13:01

Instrument :
MSVOA_Y
ClientSampleId :
EME-GENERAL-FILL



Tgt Ion:128 Resp: 1014
Ion Ratio Lower Upper
128 100
127 6.6 10.5 15.7#
129 0.0 8.8 13.2#

