

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122723\
 Data File : VY016882.D
 Acq On : 27 Dec 2023 16:57
 Operator : SY/MD
 Sample : 06031-03
 Misc : 5.74g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MR-321-10-12

Quant Time: Dec 28 03:47:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122023S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 21 01:49:45 2023
 Response via : Initial Calibration

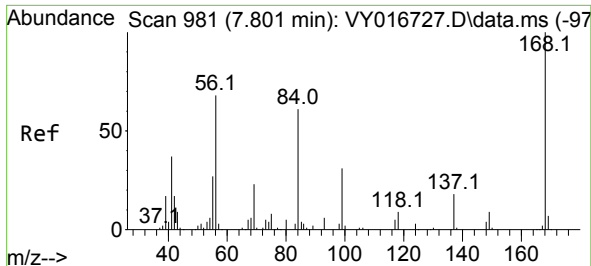
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.801	168	109849	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	236480	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	249946	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	118779	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	65716	65.532	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 131.060%	
35) Dibromofluoromethane	7.728	113	62296	45.988	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 91.980%	
50) Toluene-d8	10.185	98	270729	55.440	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 110.880%	
62) 4-Bromofluorobenzene	12.483	95	124610	78.654	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 157.300%#	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.930	59	436	5.303	ug/l #	75
14) Allyl chloride	4.716	41	2800	1.763	ug/l #	49
16) Acetone	3.960	43	7962	29.362	ug/l	95
25) 2-Butanone	6.990	43	1111	2.976	ug/l #	69
31) Cyclohexane	7.789	56	21249	11.060	ug/l #	84
36) 1,1-Dichloropropene	7.795	75	9823	4.523	ug/l #	51
38) Carbon Tetrachloride	7.801	117	11250	5.235	ug/l #	17
39) Methylcyclohexane	9.191	83	140684	56.109	ug/l	95
43) Isopropyl Acetate	8.277	43	10132	5.604	ug/l #	51
45) 1,2-Dichloropropane	9.191	63	1870	1.180	ug/l #	1
47) Bromodichloromethane	9.478	83	8531	3.952	ug/l #	27
48) Methyl methacrylate	9.331	41	3073	3.058	ug/l #	12
51) 4-Methyl-2-Pentanone	10.118	43	7989	8.294	ug/l #	70
55) 1,1,2-Trichloroethane	10.624	97	133959	114.648	ug/l #	20
56) Ethyl methacrylate	10.526	69	44393	43.207	ug/l #	1
59) 2-Hexanone	10.807	43	84687	117.907	ug/l #	28
61) 1,2-Dibromoethane	11.081	107	1420	1.355	ug/l #	1
74) N-amyl acetate	12.130	43	55623	28.651	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.568	83	10806	5.846	ug/l #	39
76) 1,2,3-Trichloropropane	12.489	75	48926	37.262	ug/l #	100
78) n-propylbenzene	12.678	91	12645	1.128	ug/l	85
81) trans-1,4-Dichloro-2-b...	12.489	75	48926	87.507	ug/l #	18
89) n-Butylbenzene	13.702	91	26385	3.513	ug/l #	74
90) Hexachloroethane	13.977	117	3980	2.433	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.385	75	385	1.607	ug/l #	1
95) Naphthalene	15.239	128	15620	7.372	ug/l #	84

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

Quant Time: Dec 28 03:47:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122023S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 21 01:49:45 2023
Response via : Initial Calibration

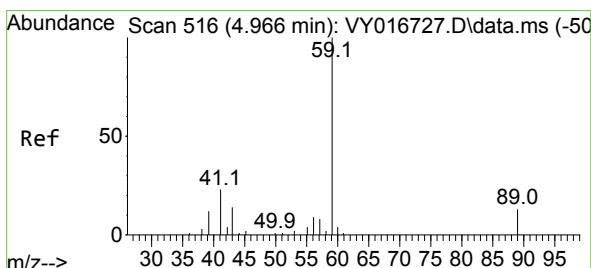
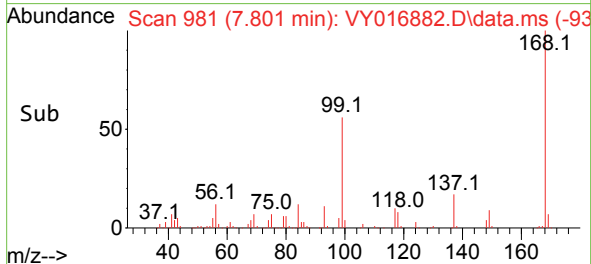
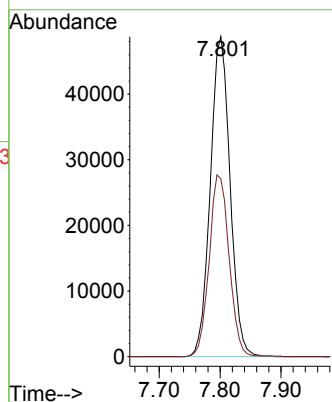
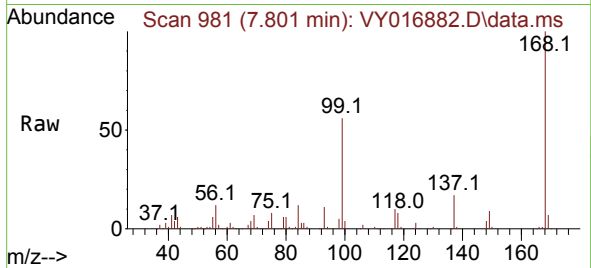




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

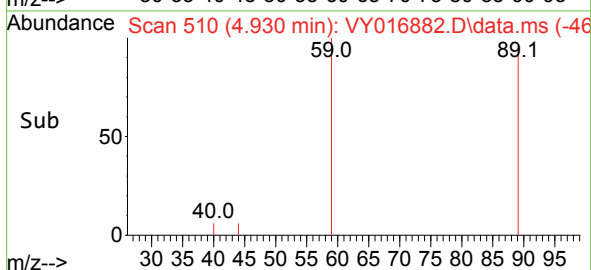
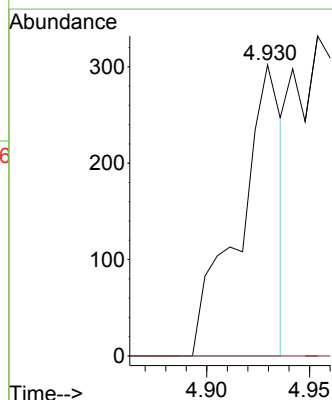
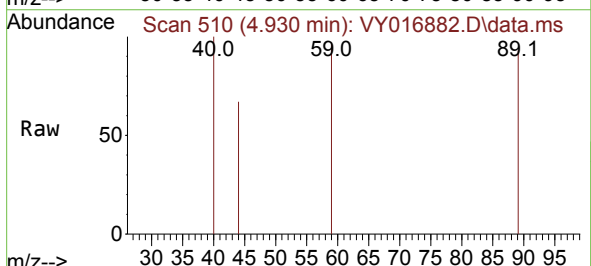
Instrument :
MSVOA_Y
ClientSampleId :
MR-321-10-12

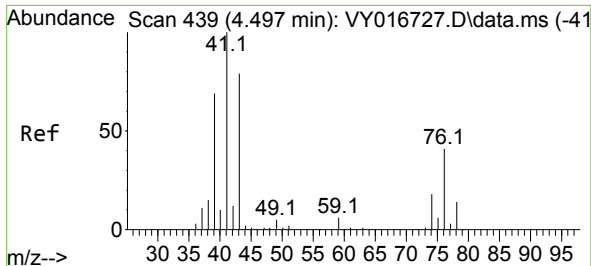
Tgt Ion:168 Resp: 109849
Ion Ratio Lower Upper
168 100
99 55.6 44.2 66.4



#11
Tert butyl alcohol
Concen: 5.303 ug/l
RT: 4.930 min Scan# 510
Delta R.T. -0.036 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

Tgt Ion: 59 Resp: 436
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.0#

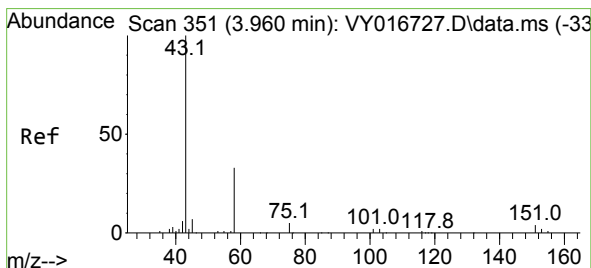
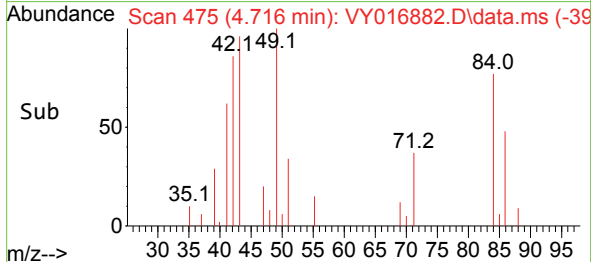
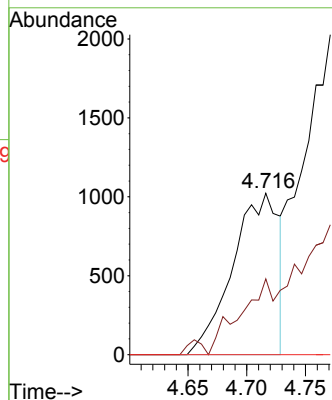
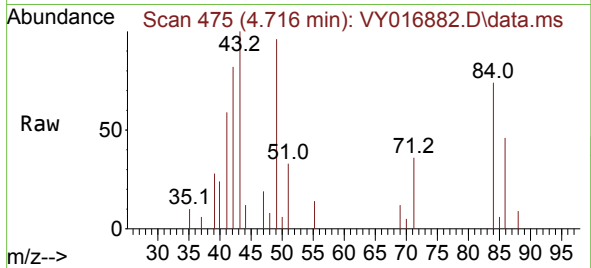




#14
 Allyl chloride
 Concen: 1.763 ug/l
 RT: 4.716 min Scan# 41
 Delta R.T. 0.220 min
 Lab File: VY016882.D
 Acq: 27 Dec 2023 16:57

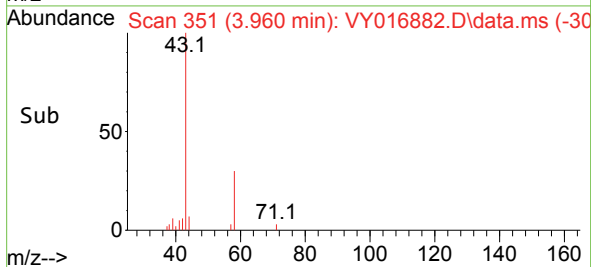
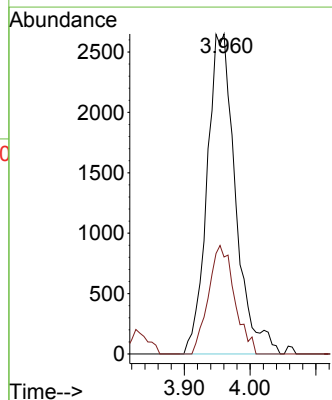
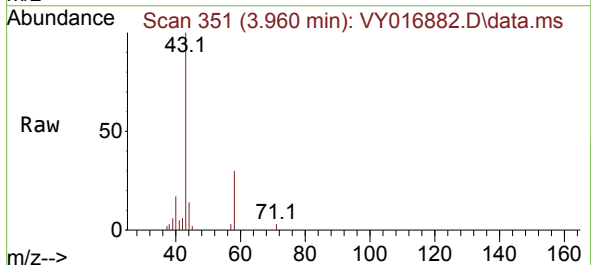
Instrument :
 MSVOA_Y
 ClientSampleId :
 MR-321-10-12

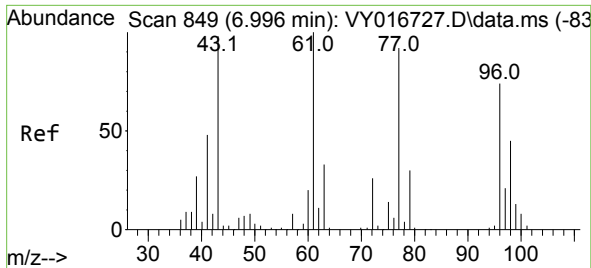
Tgt Ion: 41 Resp: 2800
 Ion Ratio Lower Upper
 41 100
 39 33.3 54.7 82.1#
 76 0.0 31.8 47.6#



#16
 Acetone
 Concen: 29.362 ug/l
 RT: 3.960 min Scan# 351
 Delta R.T. 0.000 min
 Lab File: VY016882.D
 Acq: 27 Dec 2023 16:57

Tgt Ion: 43 Resp: 7962
 Ion Ratio Lower Upper
 43 100
 58 30.3 26.6 39.8

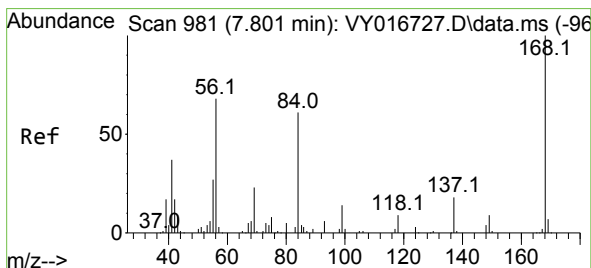
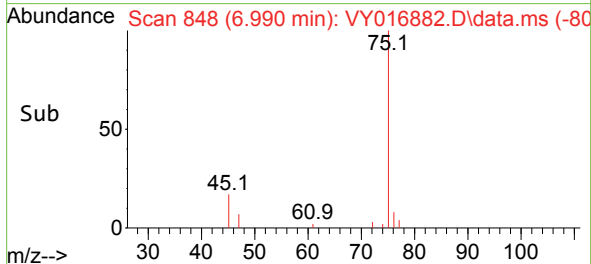
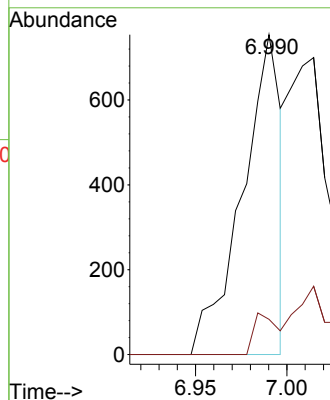
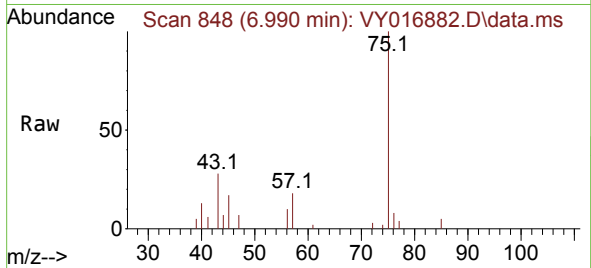




#25
2-Butanone
Concen: 2.976 ug/l
RT: 6.990 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

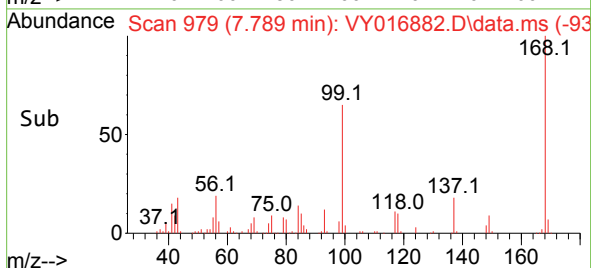
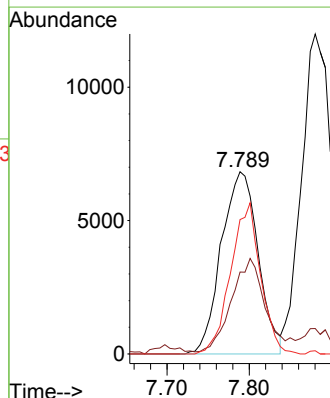
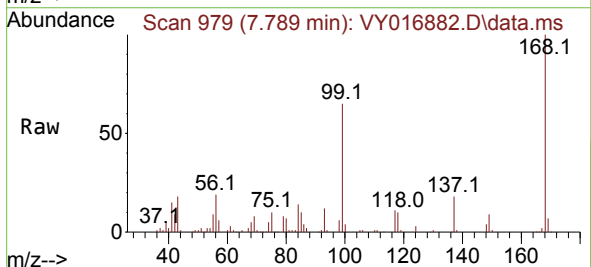
Instrument :
MSVOA_Y
ClientSampleId :
MR-321-10-12

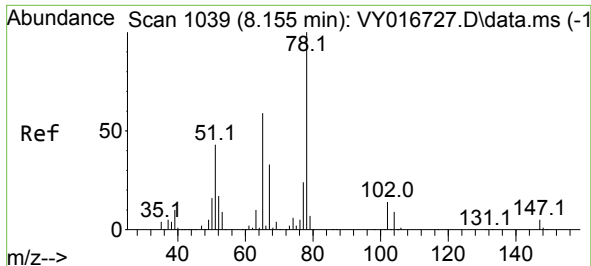
Tgt Ion: 43 Resp: 1111
Ion Ratio Lower Upper
43 100
72 11.0 21.4 32.2#



#31
Cyclohexane
Concen: 11.060 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.012 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

Tgt Ion: 56 Resp: 21249
Ion Ratio Lower Upper
56 100
69 41.6 27.0 40.6#
84 73.8 71.8 107.6





#33

1,2-Dichloroethane-d4

Concen: 65.532 ug/l

RT: 8.155 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY016882.D

Acq: 27 Dec 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

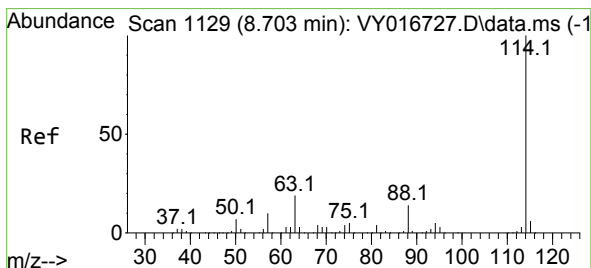
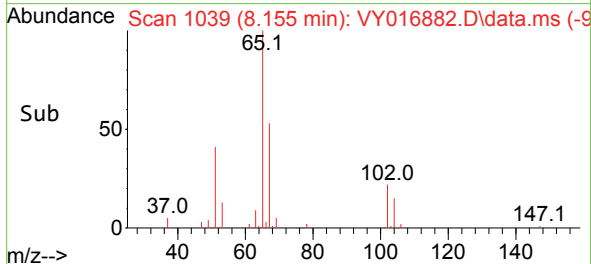
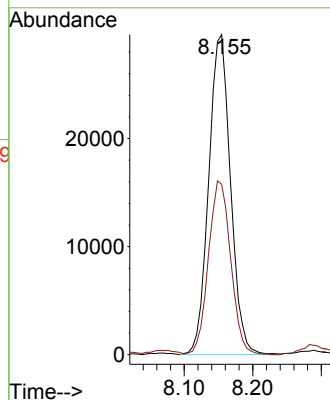
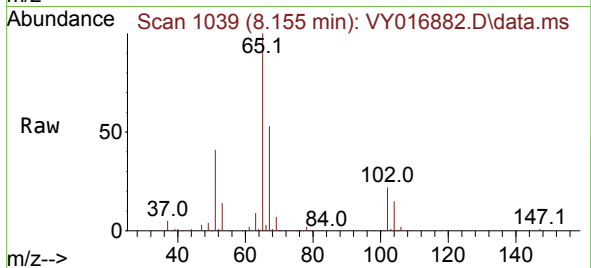
MR-321-10-12

Tgt Ion: 65 Resp: 65716

Ion Ratio Lower Upper

65 100

67 55.3 0.0 109.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VY016882.D

Acq: 27 Dec 2023 16:57

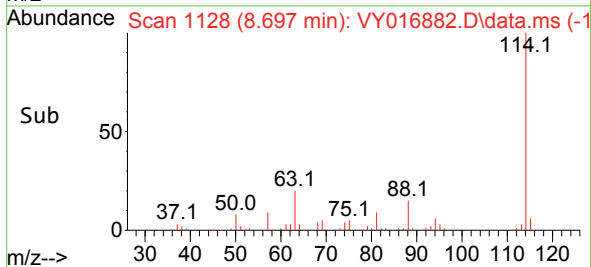
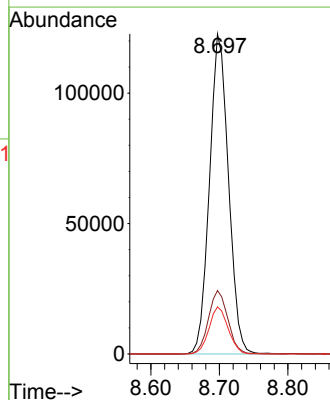
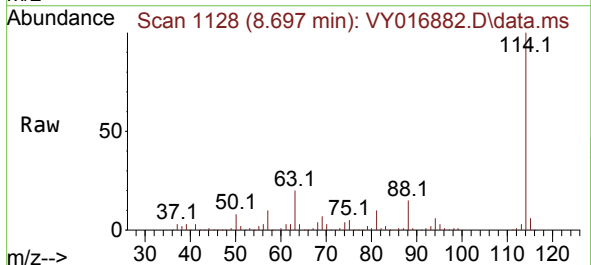
Tgt Ion: 114 Resp: 236480

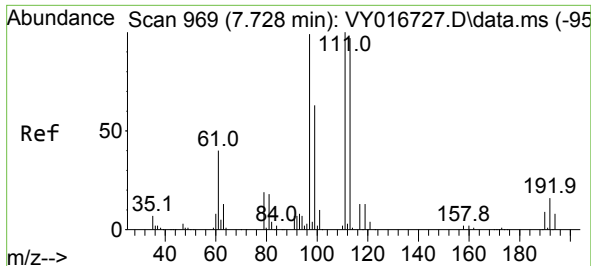
Ion Ratio Lower Upper

114 100

63 19.8 0.0 37.4

88 14.7 0.0 29.0

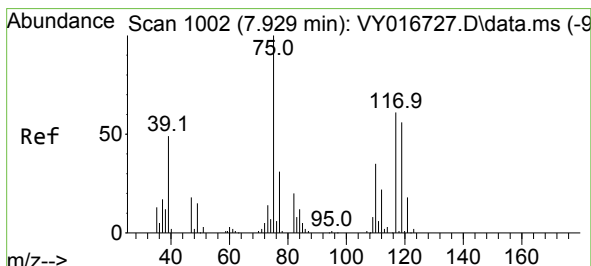
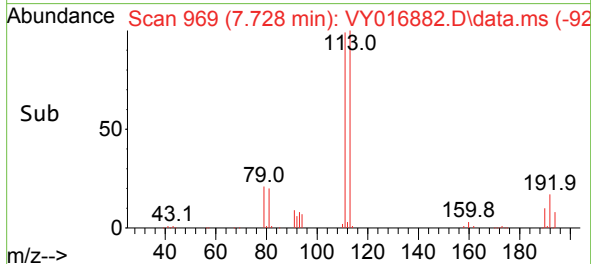
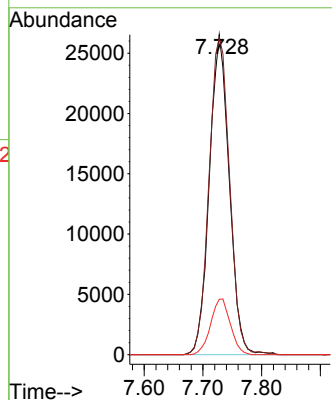
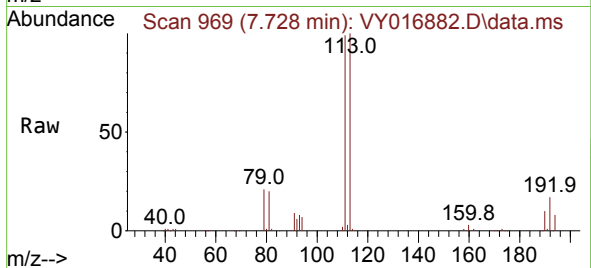




#35
Dibromofluoromethane
Concen: 45.988 ug/l
RT: 7.728 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

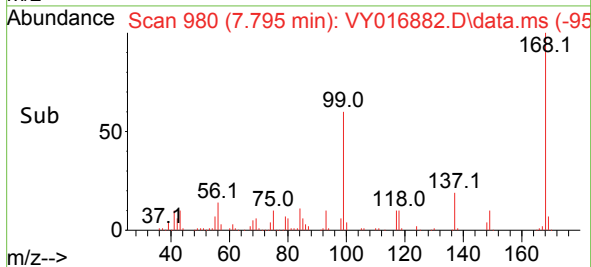
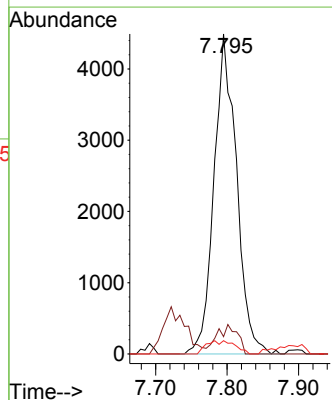
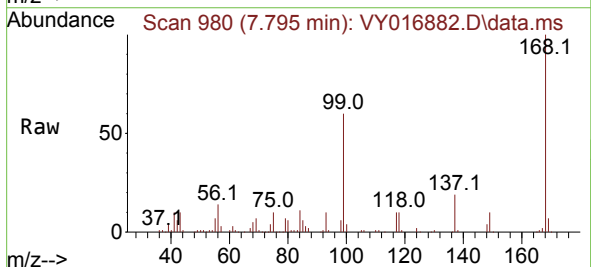
Instrument :
MSVOA_Y
ClientSampleId :
MR-321-10-12

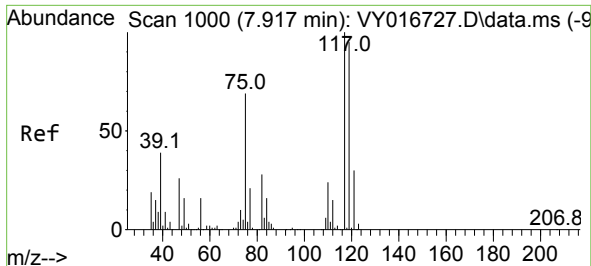
Tgt Ion:113 Resp: 62296
Ion Ratio Lower Upper
113 100
111 103.0 83.8 125.6
192 17.3 14.5 21.7



#36
1,1-Dichloropropene
Concen: 4.523 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.134 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

Tgt Ion: 75 Resp: 9823
Ion Ratio Lower Upper
75 100
110 8.2 17.4 52.3#
77 2.6 24.7 37.1#

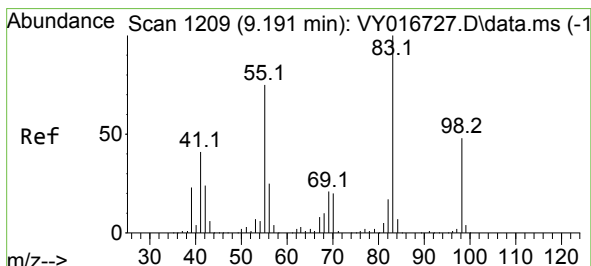
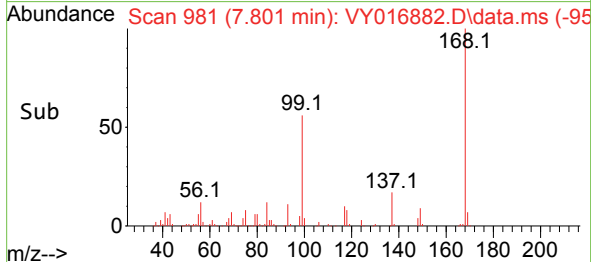
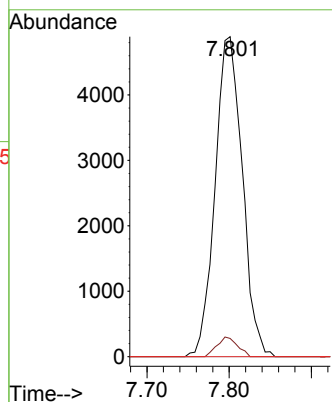
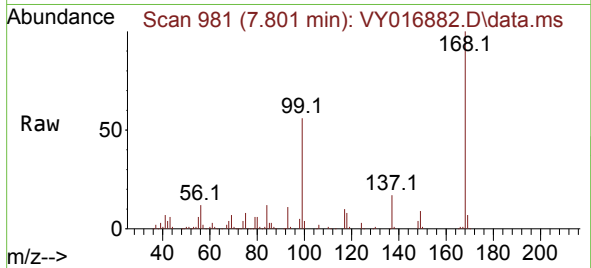




#38
Carbon Tetrachloride
Concen: 5.235 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

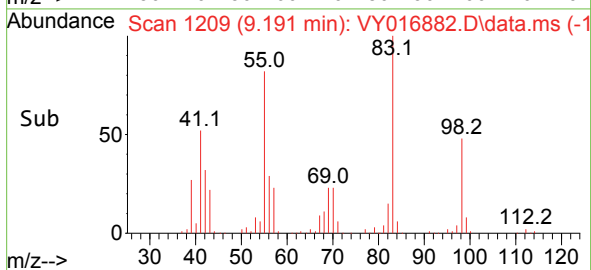
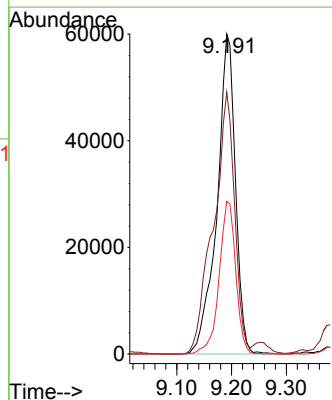
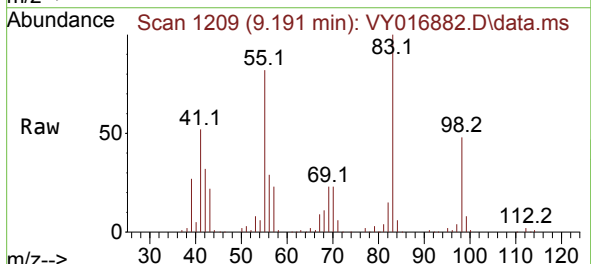
Instrument :
MSVOA_Y
ClientSampleId :
MR-321-10-12

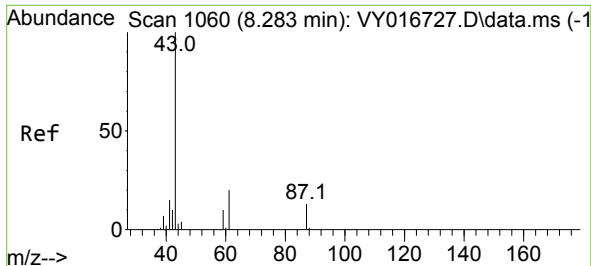
Tgt Ion:117 Resp: 11250
Ion Ratio Lower Upper
117 100
119 5.7 76.0 114.0#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 56.109 ug/l
RT: 9.191 min Scan# 1209
Delta R.T. 0.000 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

Tgt Ion: 83 Resp: 140684
Ion Ratio Lower Upper
83 100
55 81.8 59.7 89.5
98 47.7 38.0 57.0

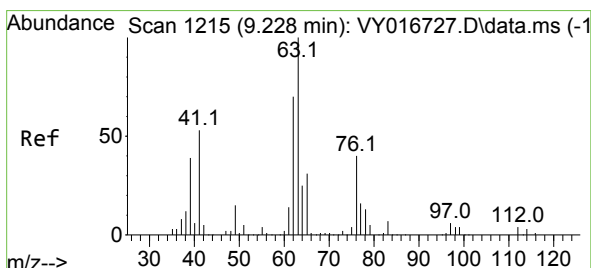
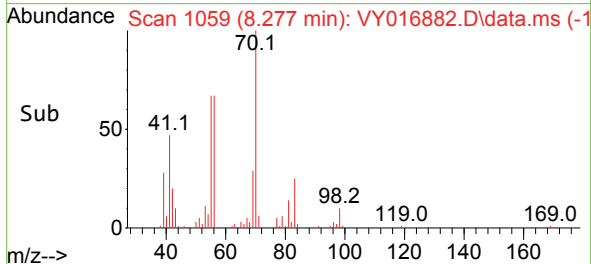
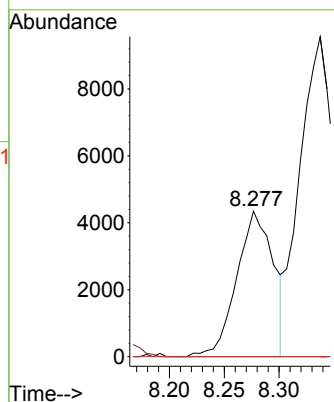
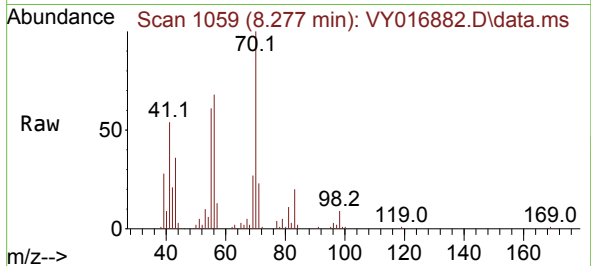




#43
Isopropyl Acetate
Concen: 5.604 ug/l
RT: 8.277 min Scan# 1059
Delta R.T. -0.006 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

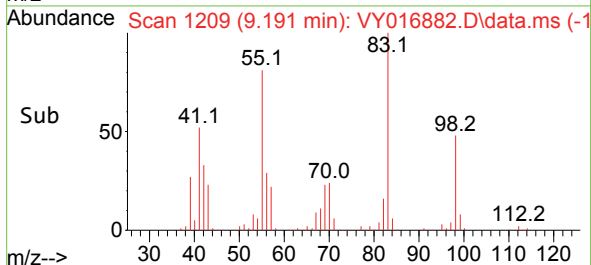
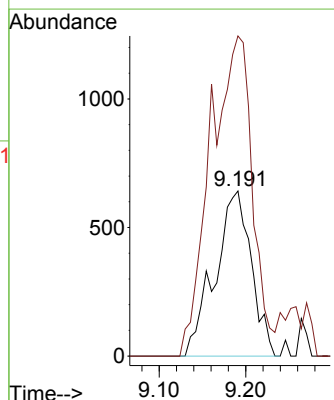
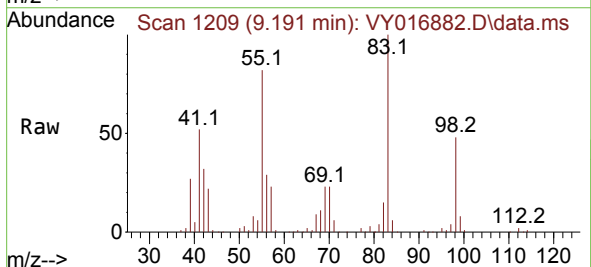
Instrument :
MSVOA_Y
ClientSampleId :
MR-321-10-12

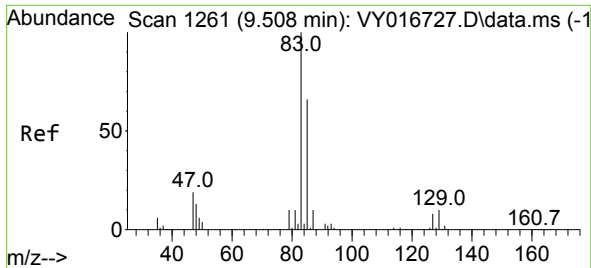
Tgt Ion: 43 Resp: 10132
Ion Ratio Lower Upper
43 100
61 0.0 24.8 37.2#
87 0.0 10.7 16.1#



#45
1,2-Dichloropropane
Concen: 1.180 ug/l
RT: 9.191 min Scan# 1209
Delta R.T. -0.037 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

Tgt Ion: 63 Resp: 1870
Ion Ratio Lower Upper
63 100
65 193.9 24.6 36.8#

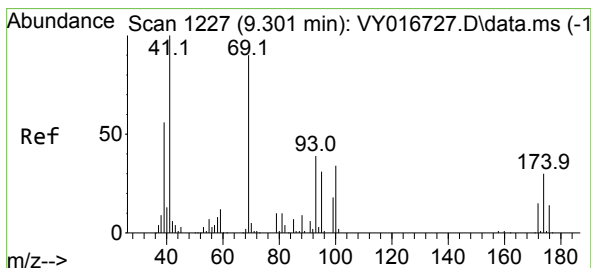
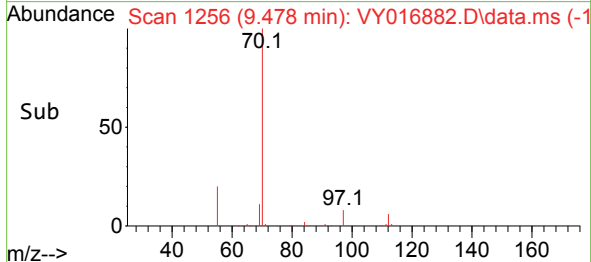
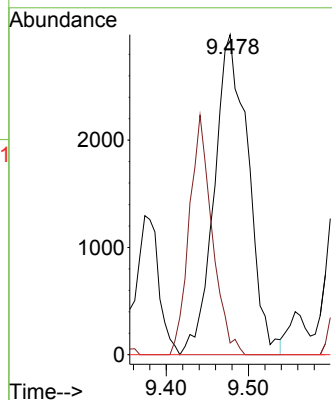
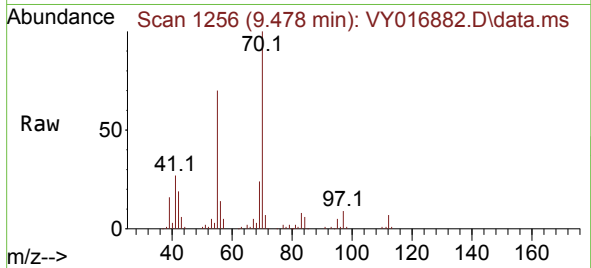




#47
 Bromodichloromethane
 Concen: 3.952 ug/l
 RT: 9.478 min Scan# 11
 Delta R.T. -0.030 min
 Lab File: VY016882.D
 Acq: 27 Dec 2023 16:57

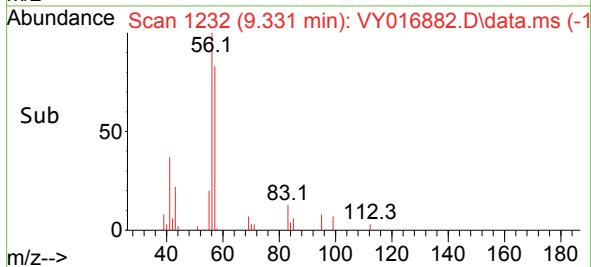
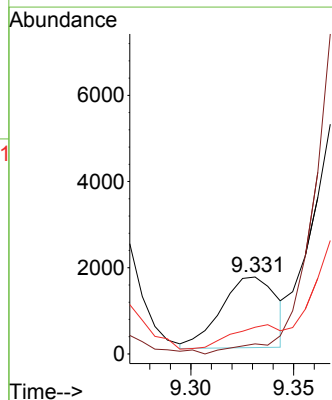
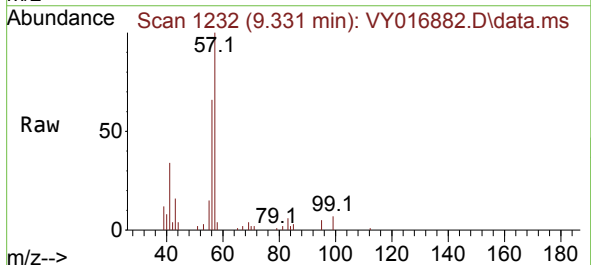
Instrument :
 MSVOA_Y
 ClientSampleId :
 MR-321-10-12

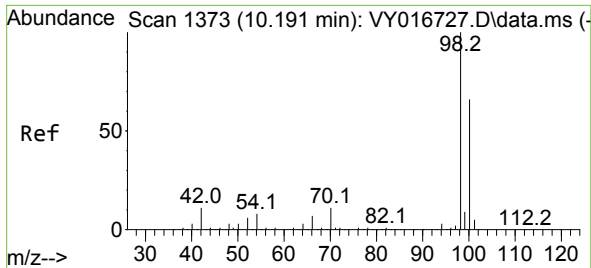
Tgt Ion: 83 Resp: 8531
 Ion Ratio Lower Upper
 83 100
 85 3.7 53.2 79.8#
 127 0.0 6.4 9.6#



#48
 Methyl methacrylate
 Concen: 3.058 ug/l
 RT: 9.331 min Scan# 1232
 Delta R.T. 0.030 min
 Lab File: VY016882.D
 Acq: 27 Dec 2023 16:57

Tgt Ion: 41 Resp: 3073
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.1 108.1#
 39 0.0 42.8 64.2#

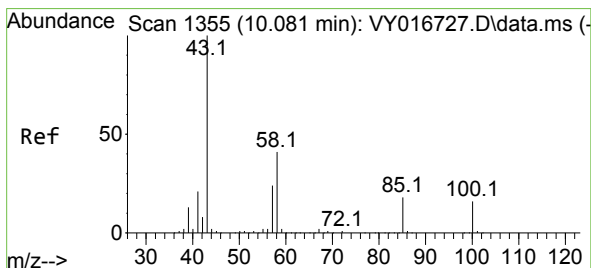
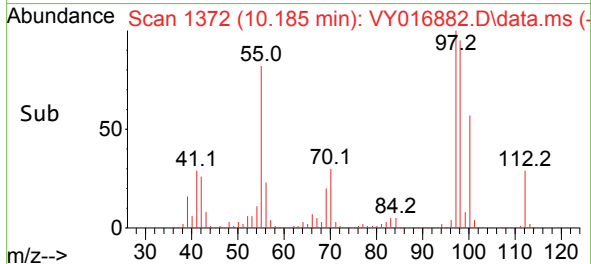
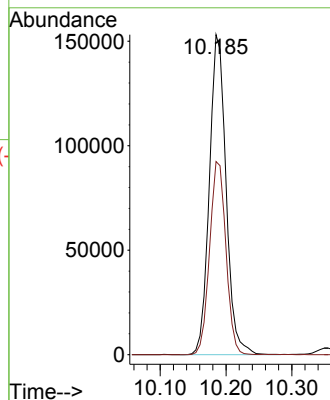
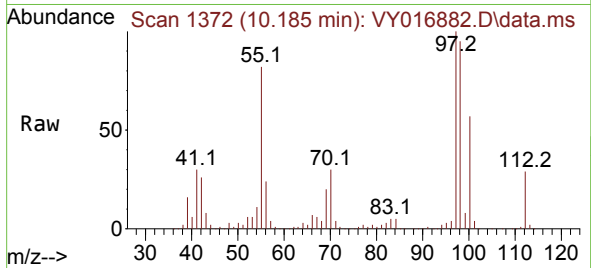




#50
Toluene-d8
Concen: 55.440 ug/l
RT: 10.185 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

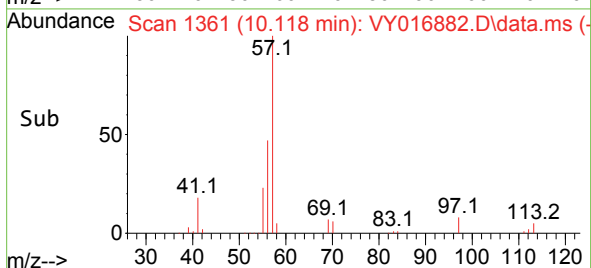
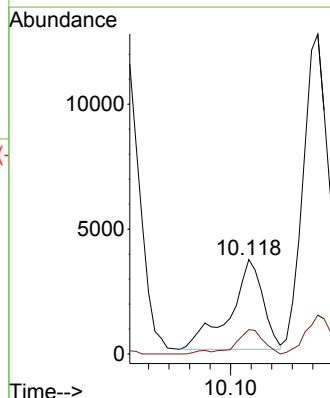
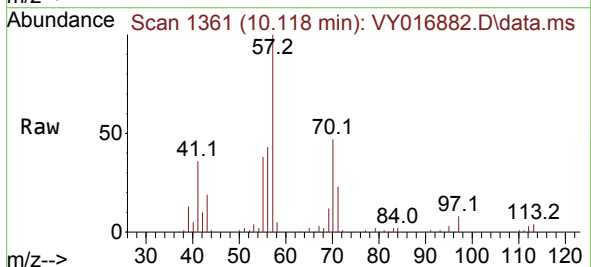
Instrument :
MSVOA_Y
ClientSampleId :
MR-321-10-12

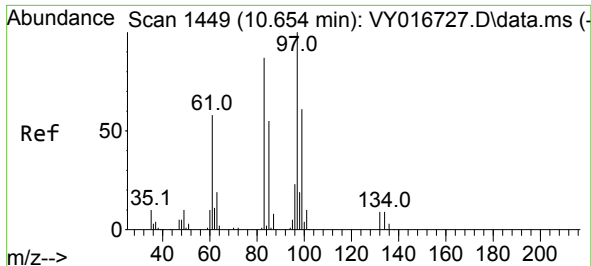
Tgt Ion: 98 Resp: 270729
Ion Ratio Lower Upper
98 100
100 58.9 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 8.294 ug/l
RT: 10.118 min Scan# 1361
Delta R.T. 0.037 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

Tgt Ion: 43 Resp: 7989
Ion Ratio Lower Upper
43 100
58 21.6 32.2 48.2#

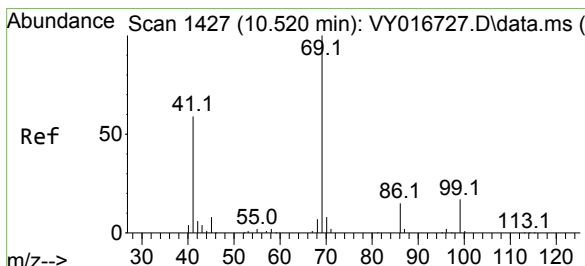
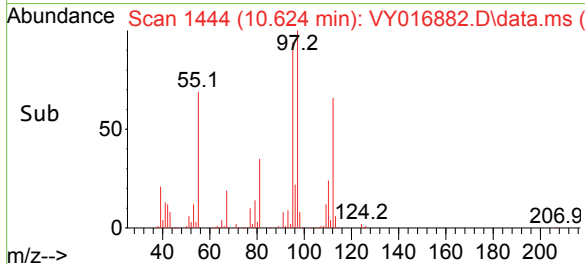
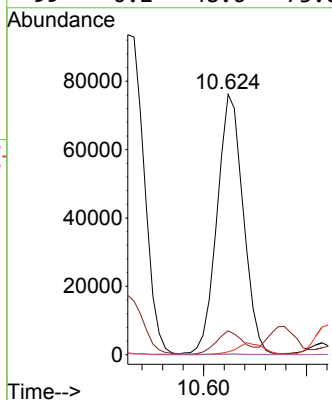
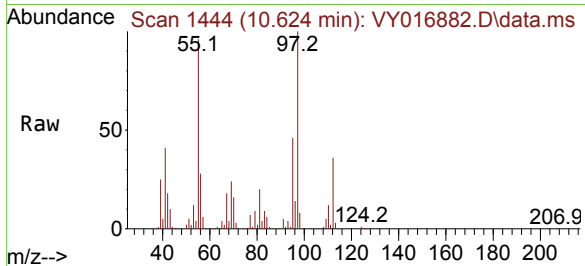




#55
1,1,2-Trichloroethane
Concen: 114.648 ug/l
RT: 10.624 min Scan# 1444
Delta R.T. -0.030 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

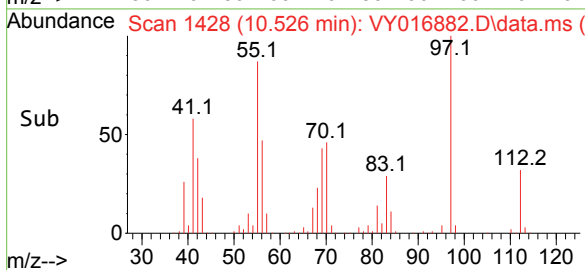
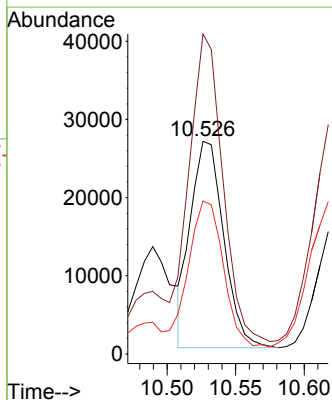
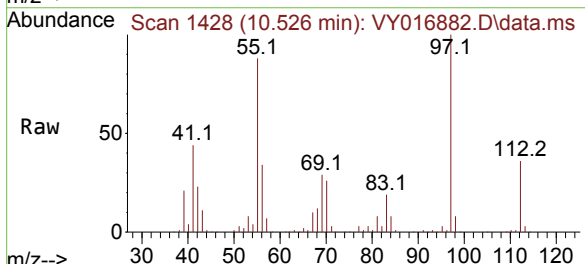
Instrument :
MSVOA_Y
ClientSampleId :
MR-321-10-12

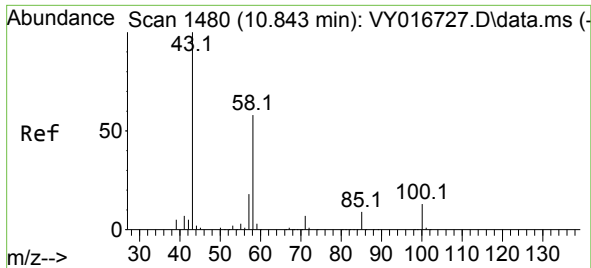
Tgt Ion:	97	Resp:	133959
Ion	Ratio	Lower	Upper
97	100		
83	8.9	69.4	104.2#
85	1.1	43.9	65.9#
99	0.2	48.6	73.0#



#56
Ethyl methacrylate
Concen: 43.207 ug/l
RT: 10.526 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

Tgt Ion:	69	Resp:	44393
Ion	Ratio	Lower	Upper
69	100		
41	156.1	49.2	73.8#
39	79.8	26.8	40.2#

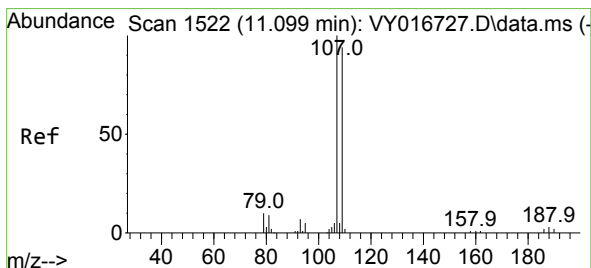
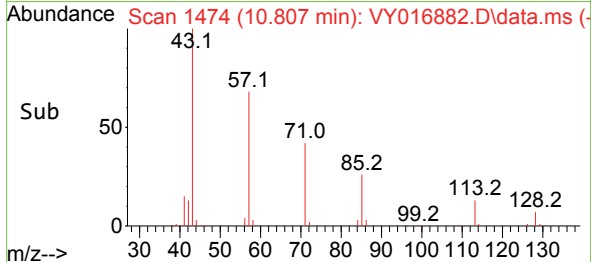
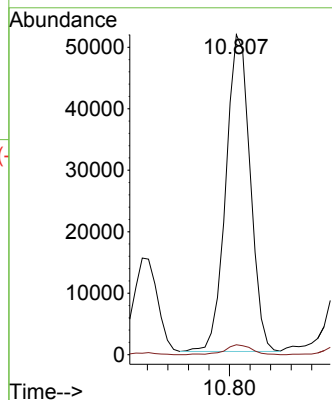
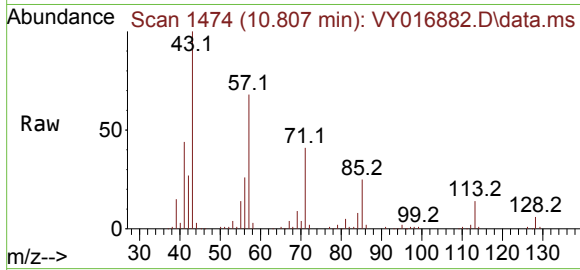




#59
2-Hexanone
Concen: 117.907 ug/l
RT: 10.807 min Scan# 1480
Delta R.T. -0.036 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

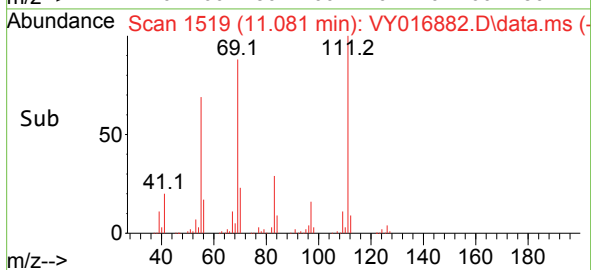
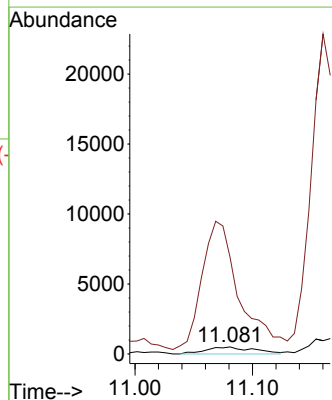
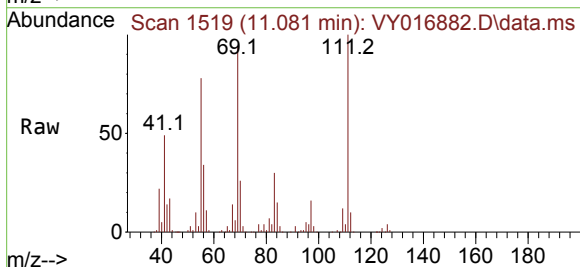
Instrument :
MSVOA_Y
ClientSampleId :
MR-321-10-12

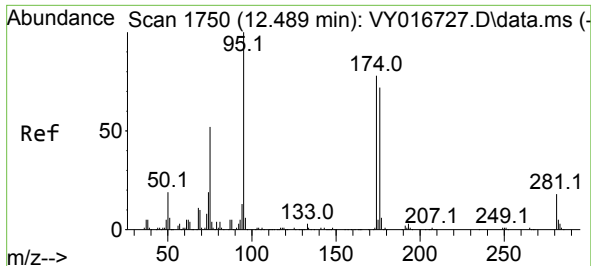
Tgt Ion: 43 Resp: 84687
Ion Ratio Lower Upper
43 100
58 3.4 28.1 84.3#



#61
1,2-Dibromoethane
Concen: 1.355 ug/l
RT: 11.081 min Scan# 1519
Delta R.T. -0.018 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

Tgt Ion:107 Resp: 1420
Ion Ratio Lower Upper
107 100
109 1427.3 75.4 113.2#

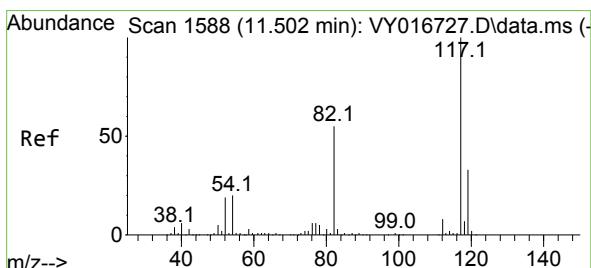
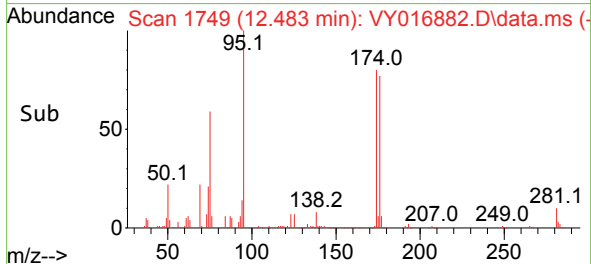
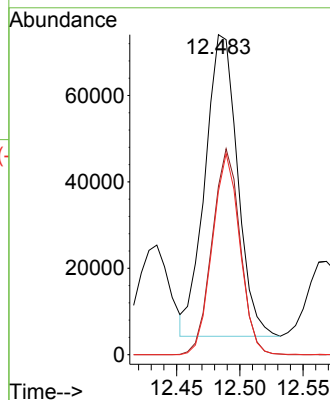
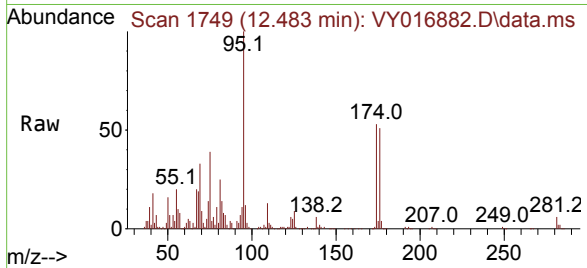




#62
4-Bromofluorobenzene
Concen: 78.654 ug/l
RT: 12.483 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

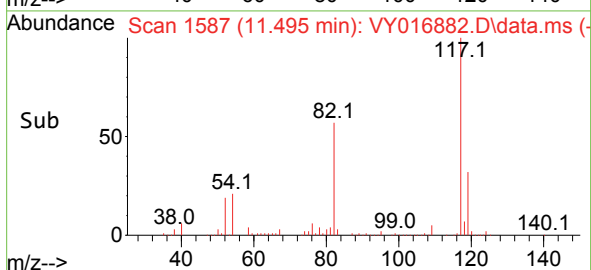
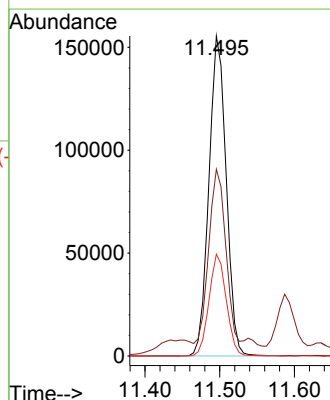
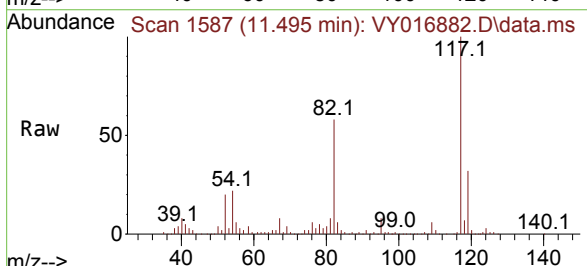
Instrument :
MSVOA_Y
ClientSampleId :
MR-321-10-12

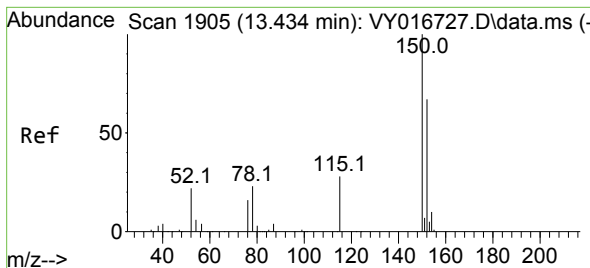
Tgt Ion: 95 Resp: 124610
Ion Ratio Lower Upper
95 100
174 58.8 0.0 160.0
176 56.4 0.0 151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 1587
Delta R.T. -0.006 min
Lab File: VY016882.D
Acq: 27 Dec 2023 16:57

Tgt Ion: 117 Resp: 249946
Ion Ratio Lower Upper
117 100
82 53.4 43.8 65.8
119 31.8 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.000 min

Lab File: VY016882.D

Acq: 27 Dec 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

MR-321-10-12

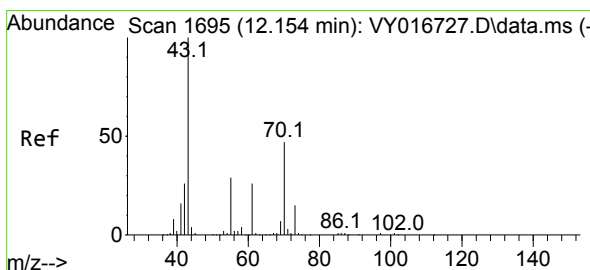
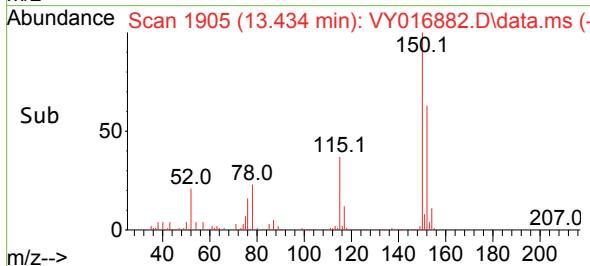
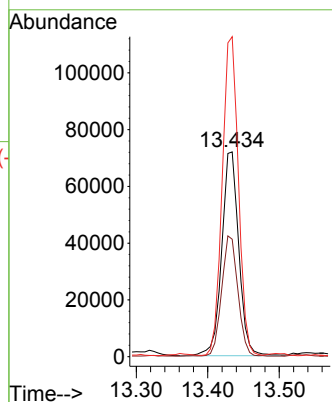
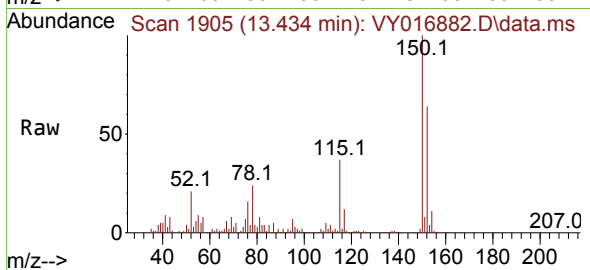
Tgt Ion:152 Resp: 118779

Ion Ratio Lower Upper

152 100

115 56.1 30.0 90.0

150 148.1 0.0 344.6



#74

N-ethyl acetate

Concen: 28.651 ug/l

RT: 12.130 min Scan# 1691

Delta R.T. -0.024 min

Lab File: VY016882.D

Acq: 27 Dec 2023 16:57

Tgt Ion: 43 Resp: 55623

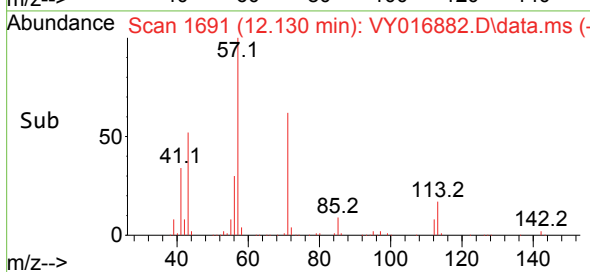
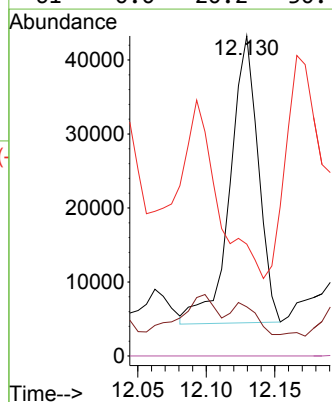
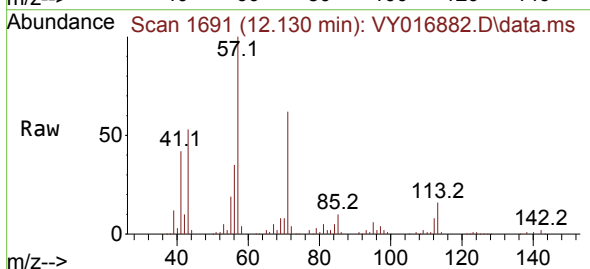
Ion Ratio Lower Upper

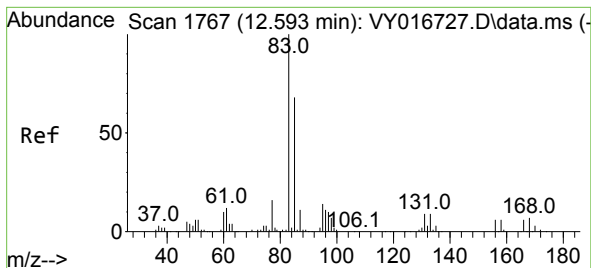
43 100

70 9.9 36.6 55.0#

55 0.0 22.2 33.4#

61 0.0 20.2 30.4#





#75

1,1,2,2-Tetrachloroethane

Concen: 5.846 ug/l

RT: 12.568 min Scan# 1763

Delta R.T. -0.024 min

Lab File: VY016882.D

Acq: 27 Dec 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

MR-321-10-12

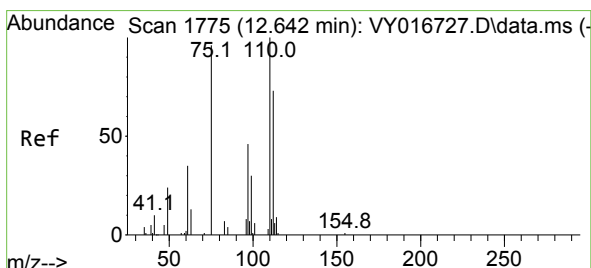
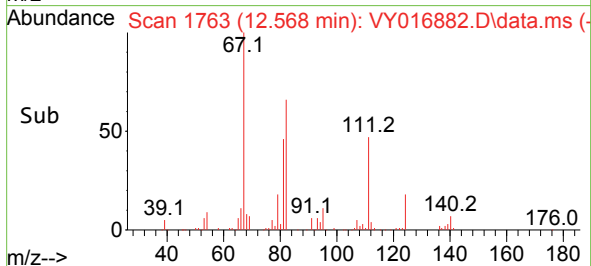
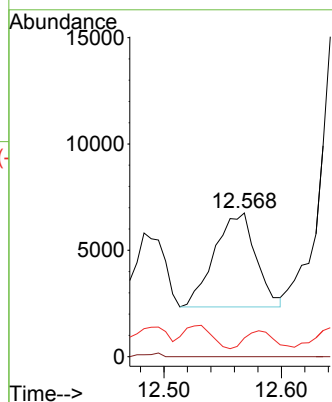
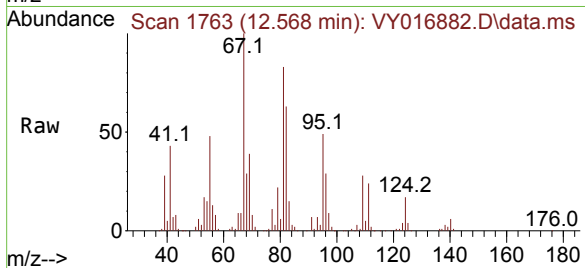
Tgt Ion: 83 Resp: 10806

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.6#

85 13.0 32.6 98.0#



#76

1,2,3-Trichloropropane

Concen: 37.262 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.152 min

Lab File: VY016882.D

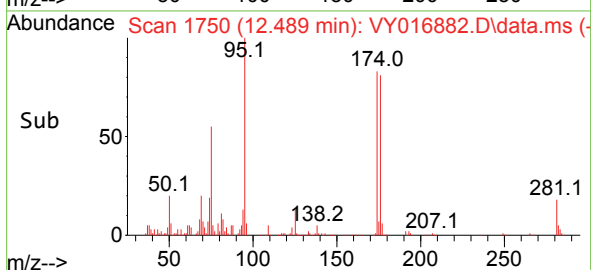
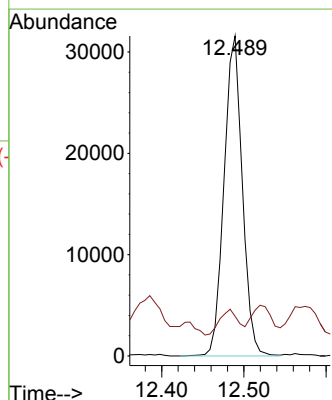
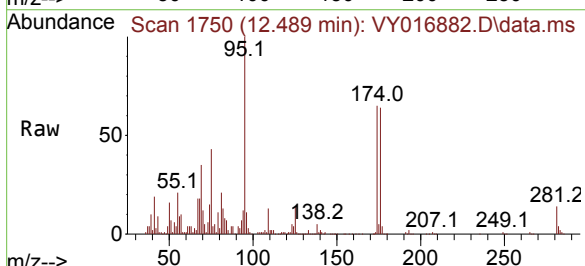
Acq: 27 Dec 2023 16:57

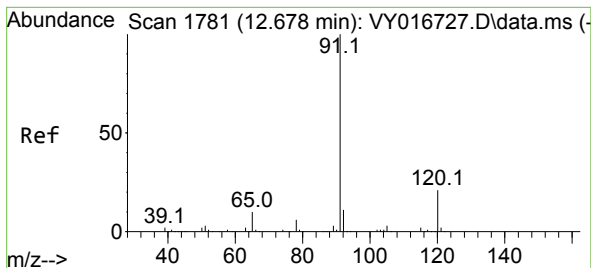
Tgt Ion: 75 Resp: 48926

Ion Ratio Lower Upper

75 100

77 8.1 0.0 0.0#





#78

n-propylbenzene

Concen: 1.128 ug/l

RT: 12.678 min Scan# 1781

Delta R.T. 0.000 min

Lab File: VY016882.D

Acq: 27 Dec 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

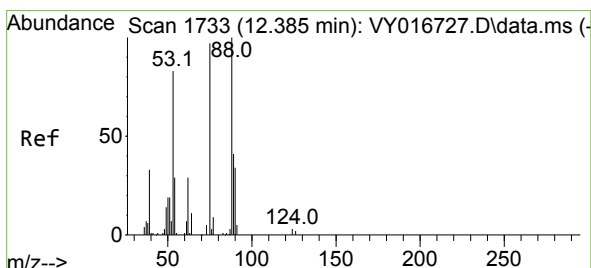
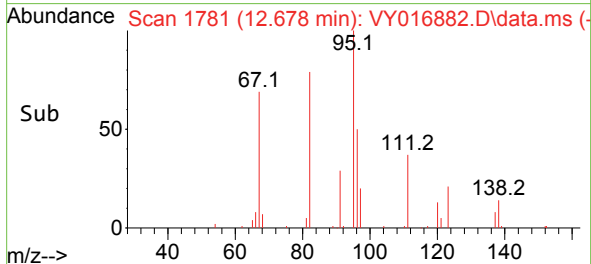
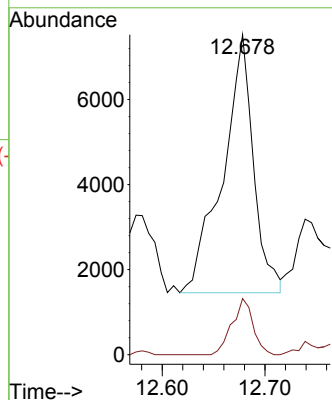
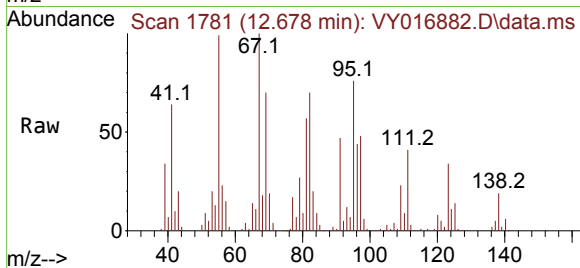
MR-321-10-12

Tgt Ion: 91 Resp: 12645

Ion Ratio Lower Upper

91 100

120 14.8 11.0 33.0



#81

trans-1,4-Dichloro-2-butene

Concen: 87.507 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.104 min

Lab File: VY016882.D

Acq: 27 Dec 2023 16:57

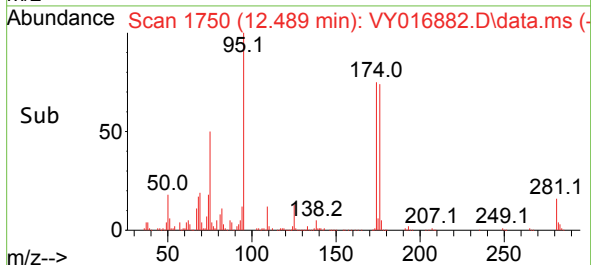
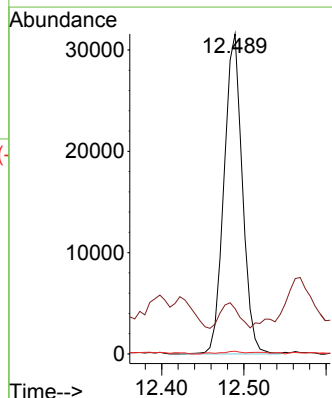
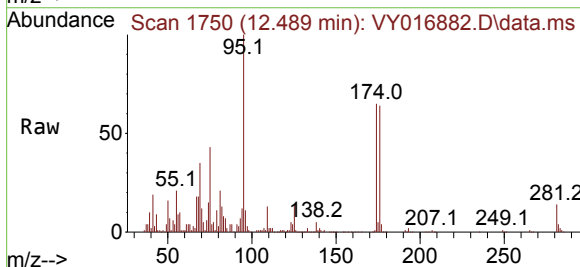
Tgt Ion: 75 Resp: 48926

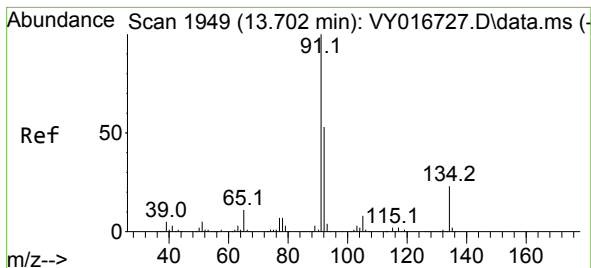
Ion Ratio Lower Upper

75 100

53 7.9 74.0 111.0#

89 0.6 36.5 54.7#





#89

n-Butylbenzene

Concen: 3.513 ug/l

RT: 13.702 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VY016882.D

Acq: 27 Dec 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

MR-321-10-12

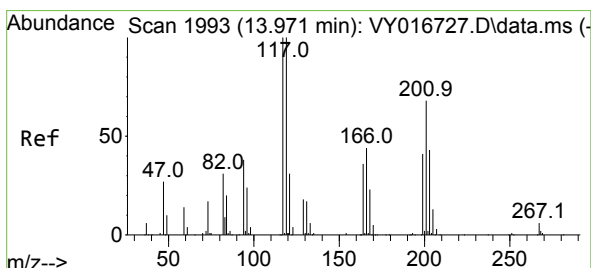
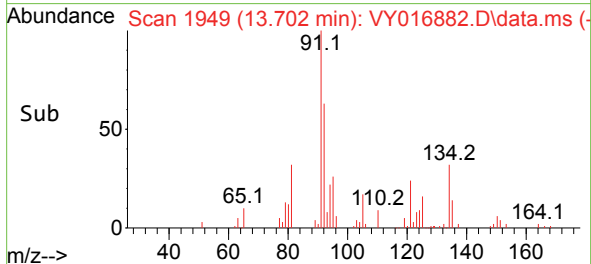
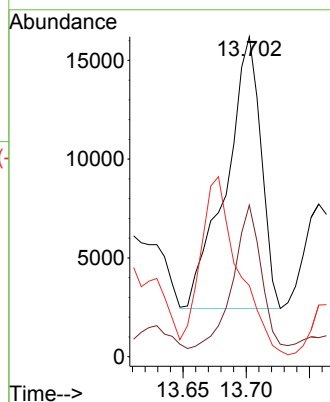
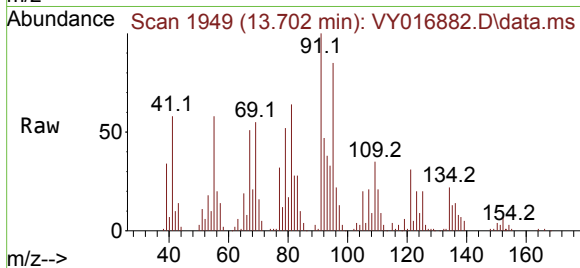
Tgt Ion: 91 Resp: 26385

Ion Ratio Lower Upper

91 100

92 42.4 26.4 79.2

134 0.0 12.3 36.8#



#90

Hexachloroethane

Concen: 2.433 ug/l

RT: 13.977 min Scan# 1994

Delta R.T. 0.006 min

Lab File: VY016882.D

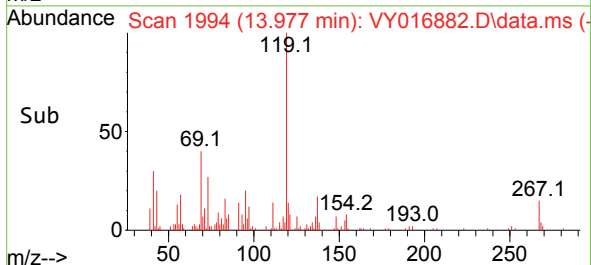
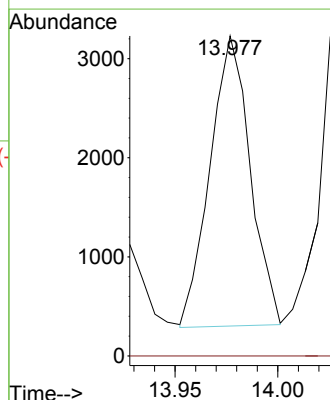
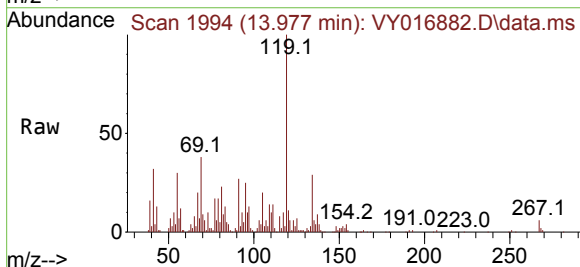
Acq: 27 Dec 2023 16:57

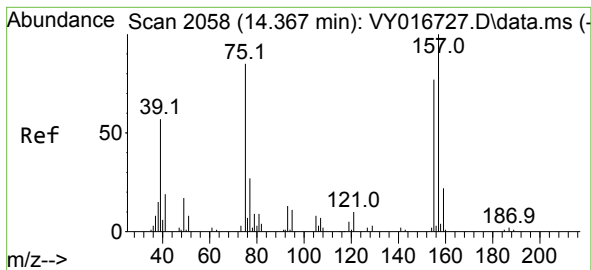
Tgt Ion: 117 Resp: 3980

Ion Ratio Lower Upper

117 100

201 0.0 33.4 100.1#

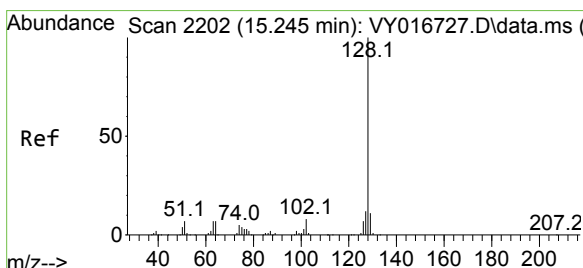
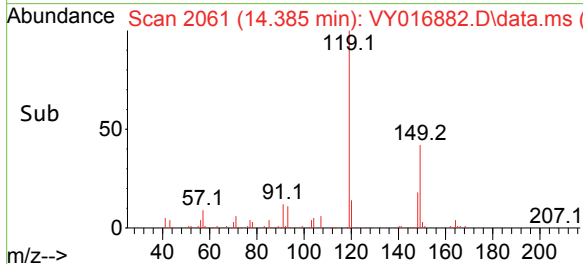
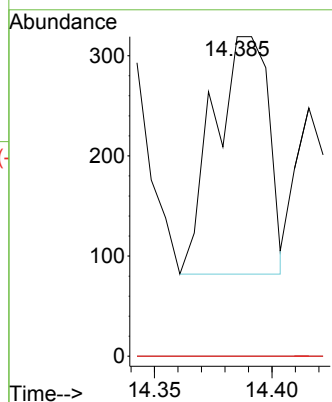
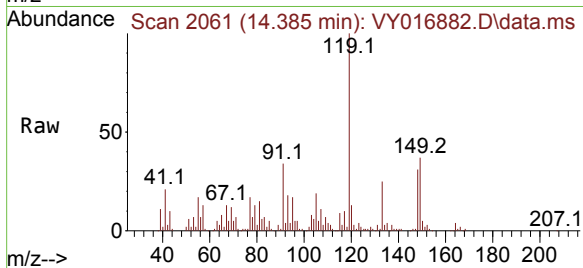




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.607 ug/l
 RT: 14.385 min Scan# 2058
 Delta R.T. 0.018 min
 Lab File: VY016882.D
 Acq: 27 Dec 2023 16:57

Instrument :
 MSVOA_Y
 ClientSampleId :
 MR-321-10-12

Tgt Ion: 75 Resp: 385
 Ion Ratio Lower Upper
 75 100
 155 0.0 42.1 126.3#
 157 0.0 55.8 167.4#



#95
 Naphthalene
 Concen: 7.372 ug/l
 RT: 15.239 min Scan# 2201
 Delta R.T. -0.006 min
 Lab File: VY016882.D
 Acq: 27 Dec 2023 16:57

Tgt Ion: 128 Resp: 15620
 Ion Ratio Lower Upper
 128 100
 127 14.7 10.2 15.4
 129 0.0 8.6 12.8#

