

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091521\
 Data File : VY006026.D
 Acq On : 15 Sep 2021 16:04
 Operator : SY/MD
 Sample : M3733-06
 Misc : 6.25G/5ML/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 16 01:23:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091421S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 15 05:01:47 2021
 Response via : Initial Calibration

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

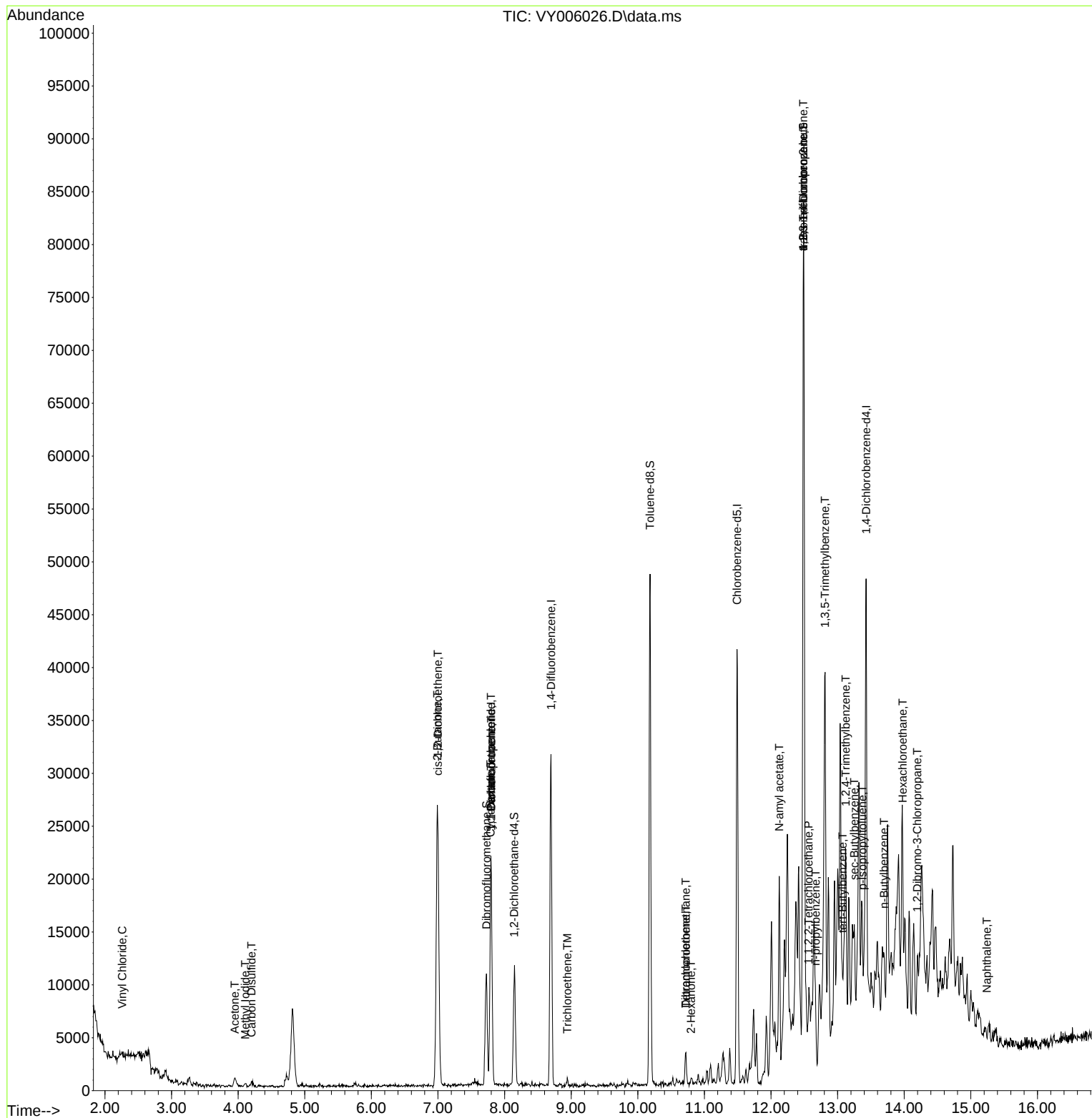
Internal Standards						
1) Pentafluorobenzene	7.795	168	15759	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	23801	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	21100	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	9407	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	8985	41.046	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	82.100%		
35) Dibromofluoromethane	7.728	113	6866	46.445	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	92.880%		
50) Toluene-d8	10.185	98	30096	47.766	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	95.540%		
62) 4-Bromofluorobenzene	12.483	95	10078	47.111	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	94.220%		
Target Compounds						Qvalue
4) Vinyl Chloride	2.259	62	554	2.370	ug/l #	43
10) Methyl Iodide	4.107	142	294	1.826	ug/l #	43
11) Tert butyl alcohol	4.954	59	178	Below Cal	#	77
16) Acetone	3.948	43	1628	27.115	ug/l	99
17) Carbon Disulfide	4.198	76	824	1.568	ug/l #	75
20) Methylene Chloride	4.716	84	621	Below Cal	#	64
25) 2-Butanone	6.990	43	83	1.003	ug/l #	1
27) cis-1,2-Dichloroethene	6.996	96	15614	79.321	ug/l	91
31) Cyclohexane	7.789	56	466	1.329	ug/l #	62
36) 1,1-Dichloropropene	7.801	75	1385	5.391	ug/l #	45
38) Carbon Tetrachloride	7.795	117	1700	6.079	ug/l #	11
44) Trichloroethene	8.941	130	240	1.307	ug/l	66
59) 2-Hexanone	10.801	43	434	3.567	ug/l #	28
60) Dibromochloromethane	10.721	129	429	2.567	ug/l #	11
64) Tetrachloroethene	10.721	164	482	2.793	ug/l #	78
74) N-amyl acetate	12.123	43	4117	16.185	ug/l #	78
75) 1,1,2,2-Tetrachloroethane	12.562	83	142	1.036	ug/l #	1
76) 1,2,3-Trichloropropane	12.483	75	5998	59.803	ug/l #	100
78) n-propylbenzene	12.672	91	3160	3.467	ug/l	97
80) 1,3,5-Trimethylbenzene	12.812	105	2830	4.632	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.483	75	5998	109.948	ug/l #	11
83) tert-Butylbenzene	13.075	119	605	1.158	ug/l	87
84) 1,2,4-Trimethylbenzene	13.123	105	7598	12.536	ug/l	97
85) sec-Butylbenzene	13.251	105	3098	3.961	ug/l	87
86) p-Isopropyltoluene	13.373	119	1189	1.781	ug/l	87
89) n-Butylbenzene	13.696	91	2992	4.791	ug/l #	81
90) Hexachloroethane	13.977	117	461	3.836	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.196	75	74	2.722	ug/l #	6
95) Naphthalene	15.239	128	420	1.117	ug/l #	69

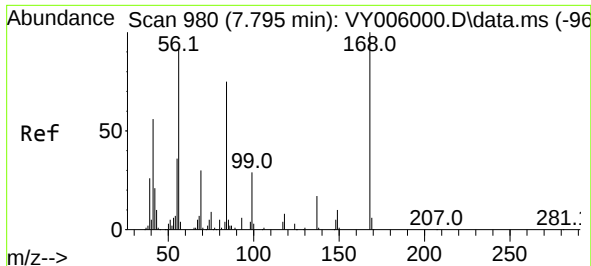
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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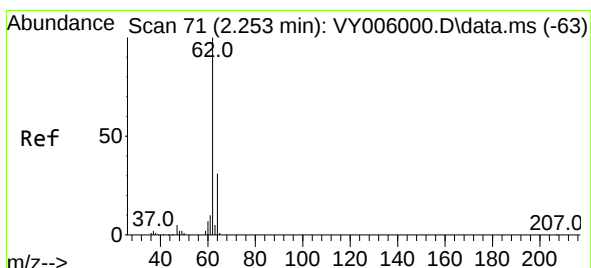
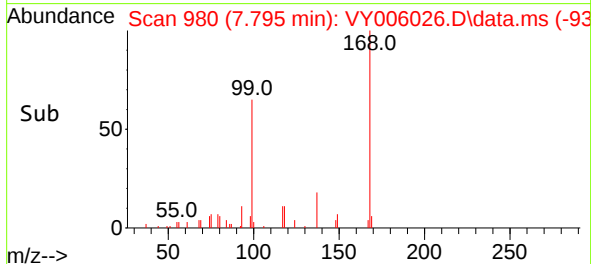
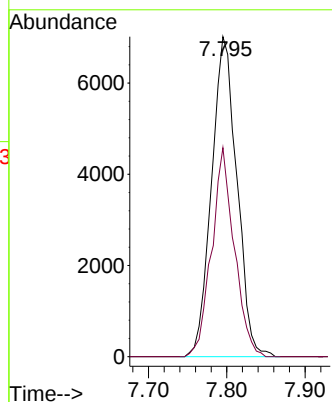
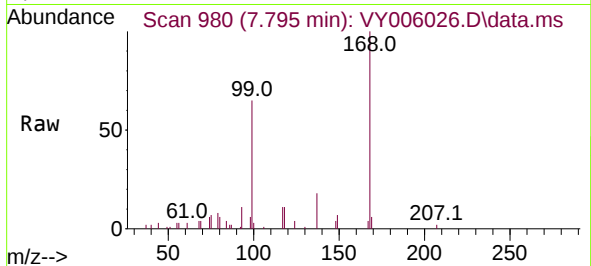




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

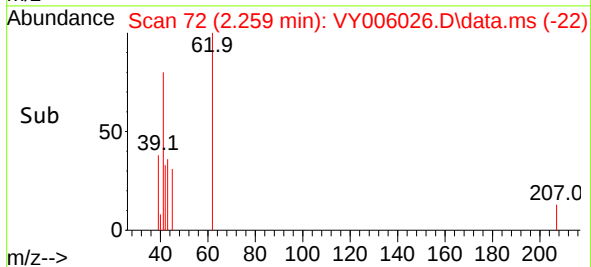
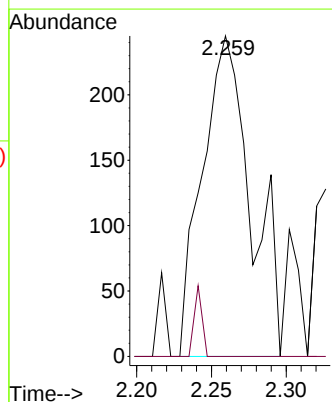
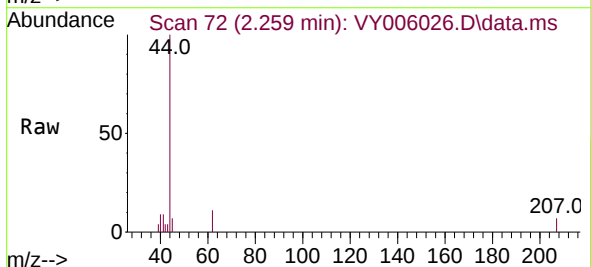
Instrument :
MSVOA_Y
ClientSampleId :

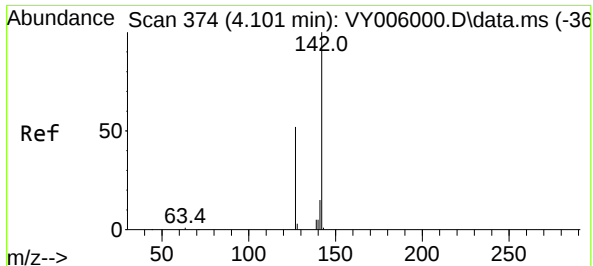
Tgt Ion:168 Resp: 15759
Ion Ratio Lower Upper
168 100
99 65.3 46.9 70.3



#4
Vinyl Chloride
Concen: 2.370 ug/l
RT: 2.259 min Scan# 72
Delta R.T. 0.006 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion: 62 Resp: 554
Ion Ratio Lower Upper
62 100
64 0.0 25.0 37.6#

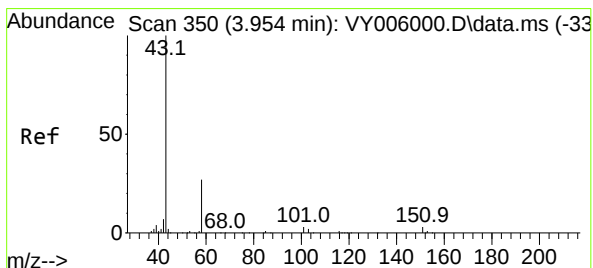
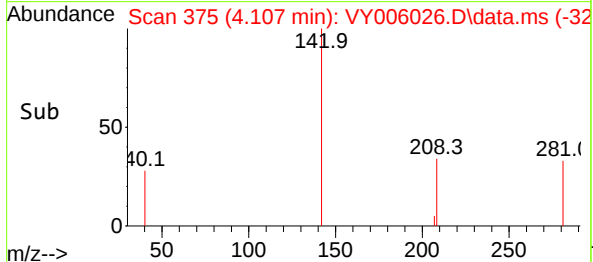
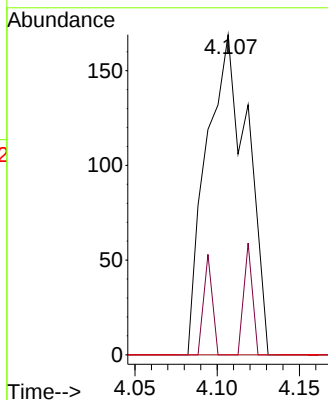
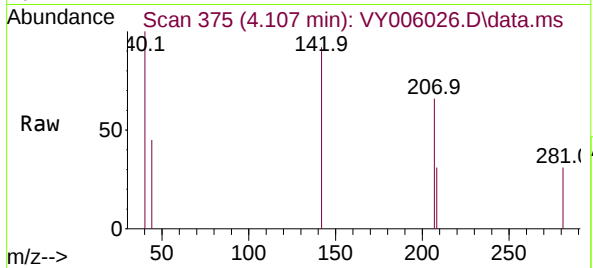




#10
Methyl Iodide
Concen: 1.826 ug/l
RT: 4.107 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

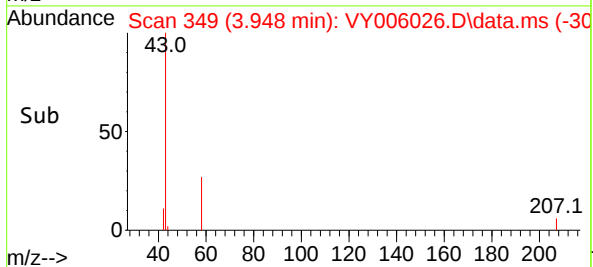
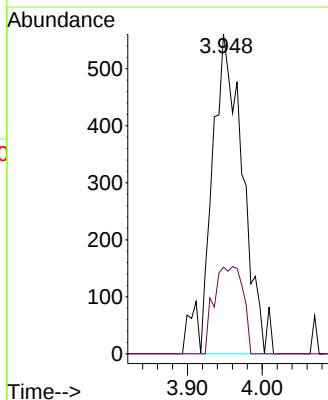
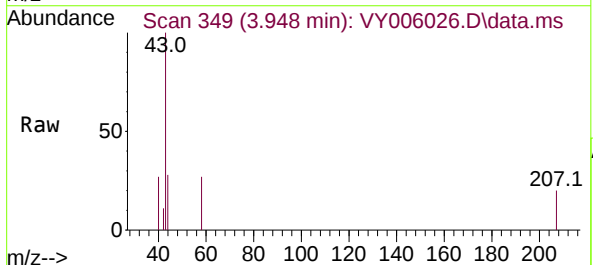
Instrument :
MSVOA_Y
ClientSampled :

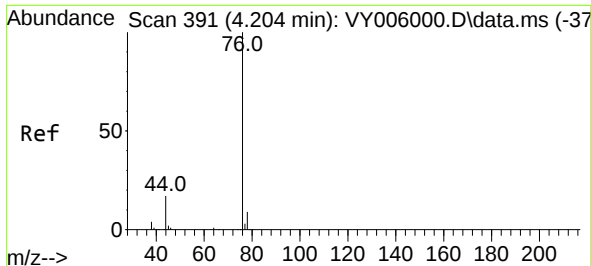
Tgt Ion:	142	Resp:	294
Ion	Ratio	Lower	Upper
142	100		
127	7.5	41.5	62.3#
141	0.0	11.9	17.9#



#16
Acetone
Concen: 27.115 ug/l
RT: 3.948 min Scan# 349
Delta R.T. -0.006 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion:	43	Resp:	1628
Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.0	33.0

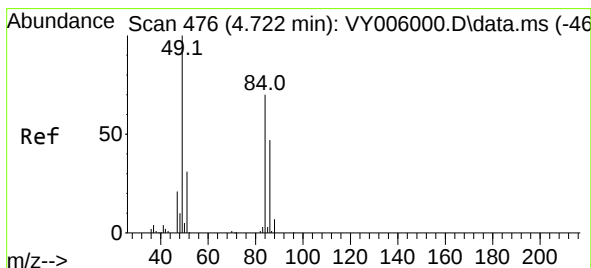
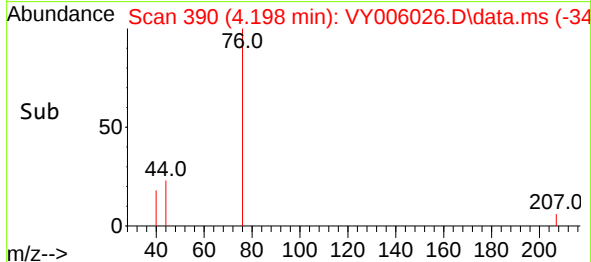
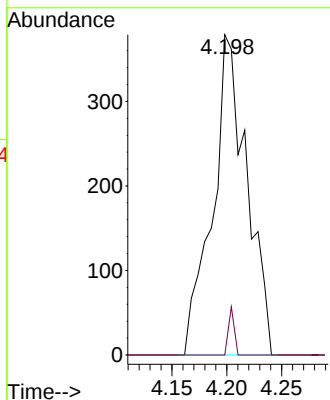
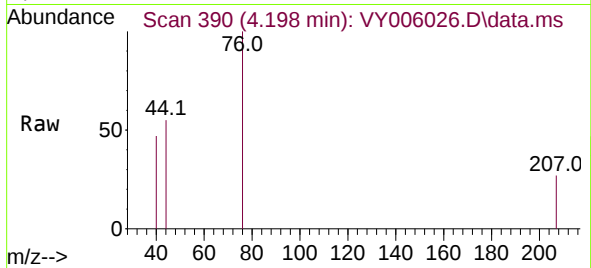




#17
Carbon Disulfide
Concen: 1.568 ug/l
RT: 4.198 min Scan# 390
Delta R.T. -0.006 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

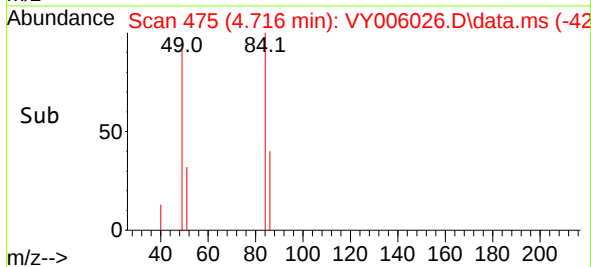
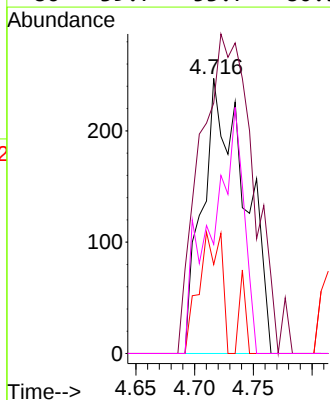
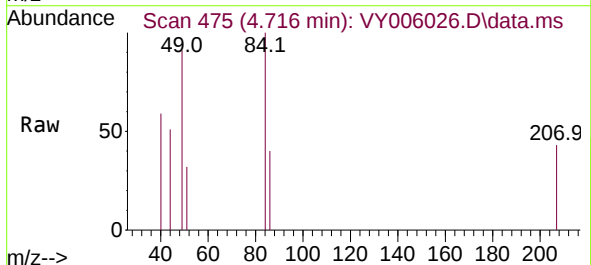
Instrument :
MSVOA_Y
ClientSampled :

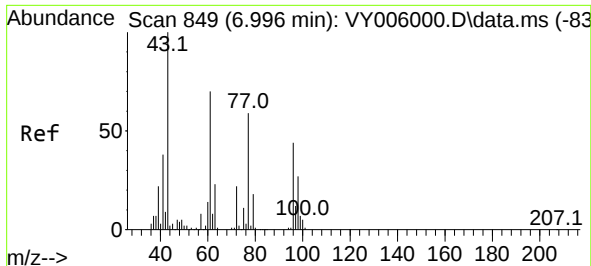
Tgt Ion: 76 Resp: 824
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.716 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion: 84 Resp: 621
Ion Ratio Lower Upper
84 100
49 91.1 114.4 171.6#
51 32.4 35.3 52.9#
86 39.7 53.7 80.5#

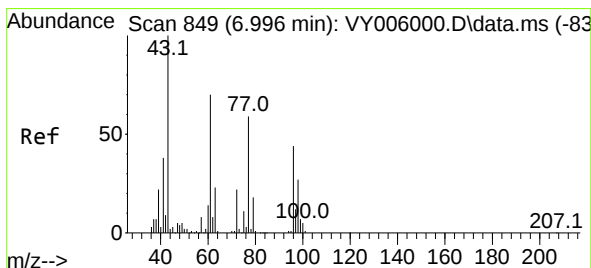
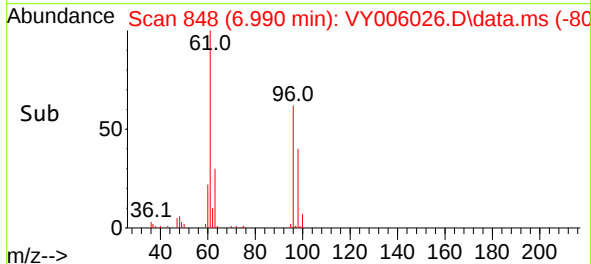
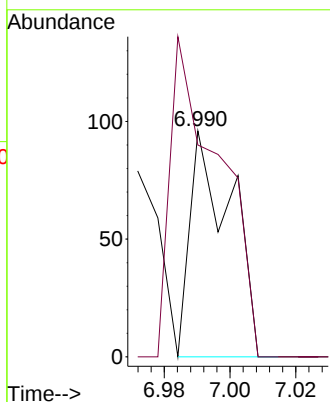
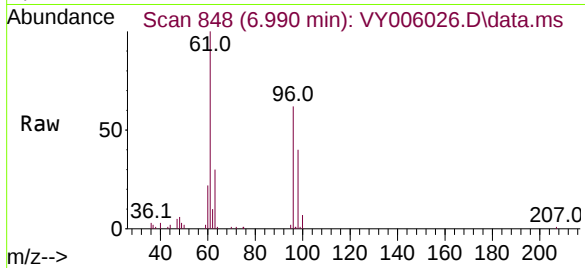




#25
2-Butanone
Concen: 1.003 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.006 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

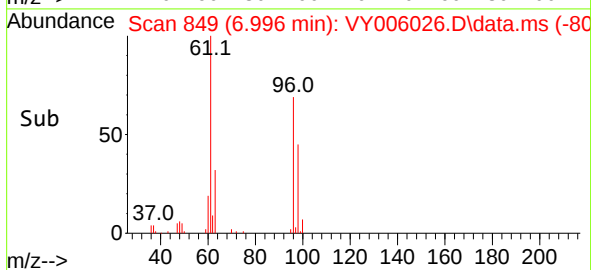
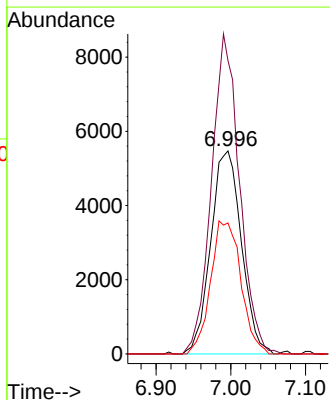
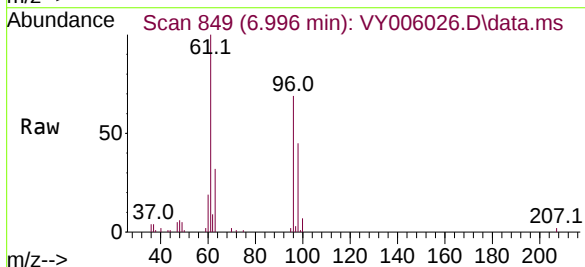
Instrument :
MSVOA_Y
ClientSampled :

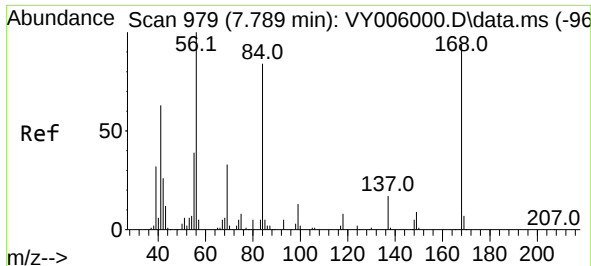
Tgt Ion: 43 Resp: 83
Ion Ratio Lower Upper
43 100
72 93.8 17.7 26.5#



#27
cis-1,2-Dichloroethene
Concen: 79.321 ug/l
RT: 6.996 min Scan# 849
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

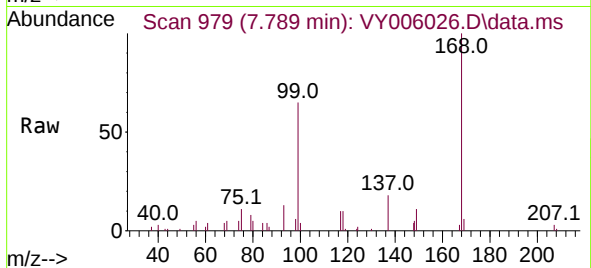
Tgt Ion: 96 Resp: 15614
Ion Ratio Lower Upper
96 100
61 144.1 0.0 319.8
98 64.6 0.0 127.0



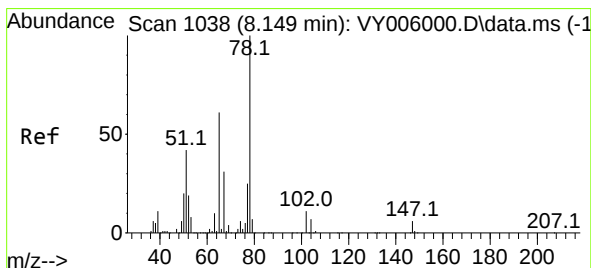
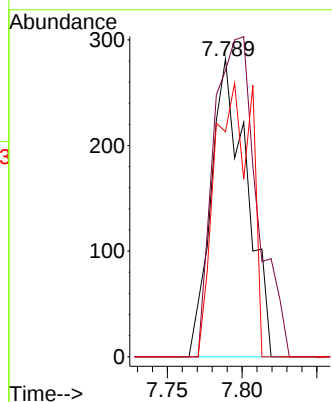
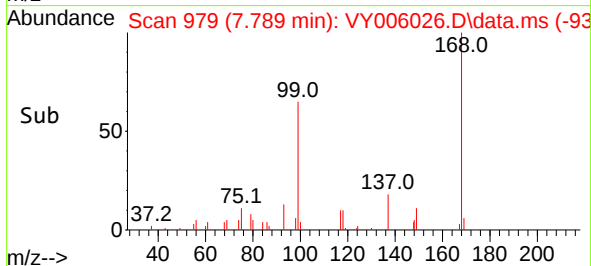


#31
Cyclohexane
Concen: 1.329 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

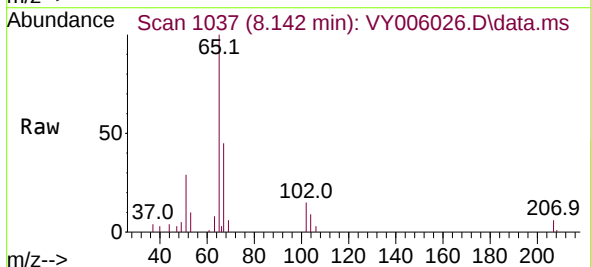
Instrument :
MSVOA_Y
ClientSampleId :



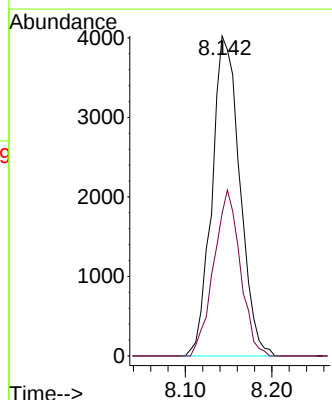
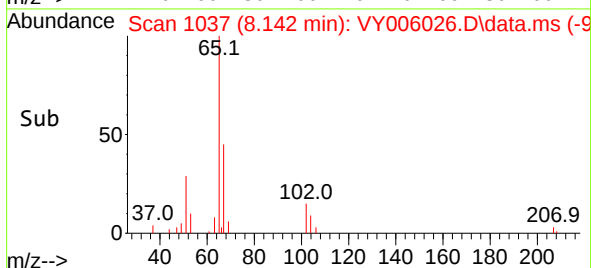
Tgt Ion: 56 Resp: 466
Ion Ratio Lower Upper
56 100
69 96.1 26.7 40.1#
84 75.5 67.2 100.8

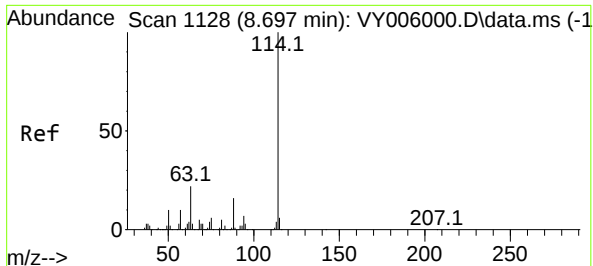


#33
1,2-Dichloroethane-d4
Concen: 41.046 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. -0.006 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04



Tgt Ion: 65 Resp: 8985
Ion Ratio Lower Upper
65 100
67 49.4 0.0 99.4

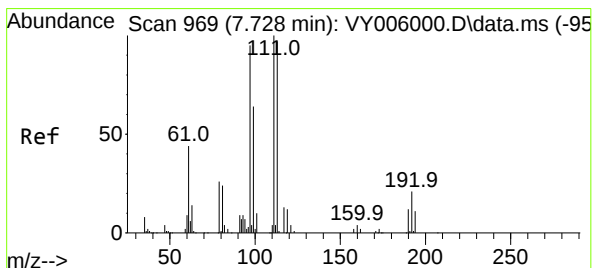
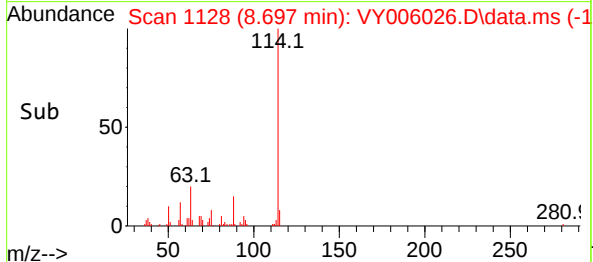
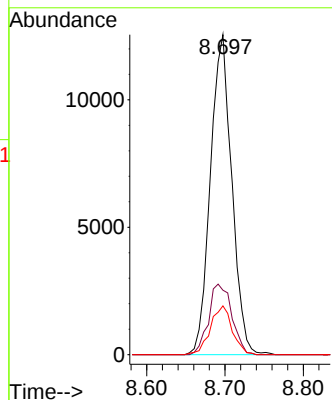
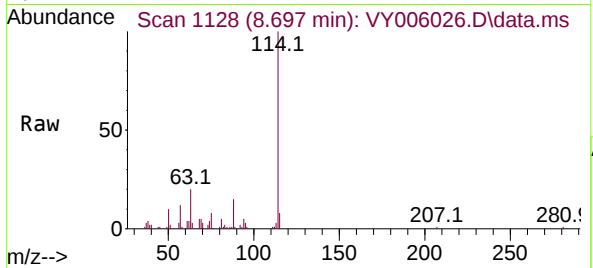




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.697 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

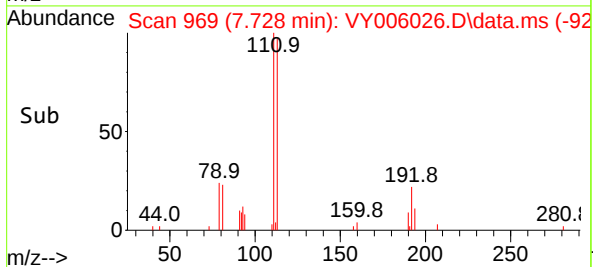
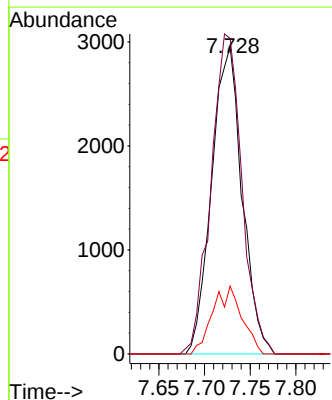
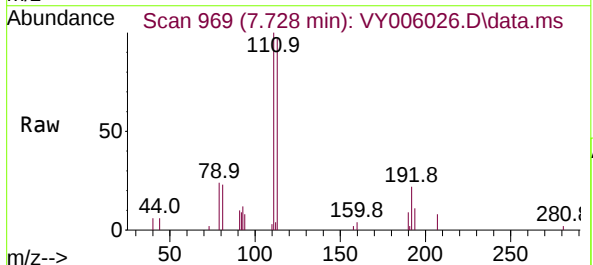
Instrument :
MSVOA_Y
ClientSampled :

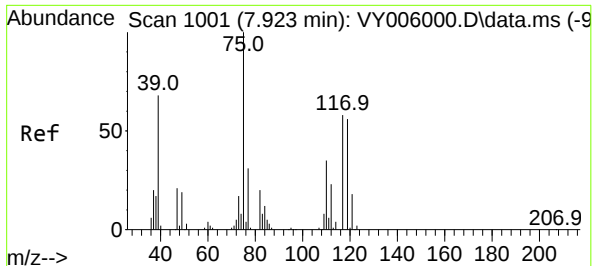
Tgt Ion:	114	Resp:	23801
Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	43.2
88	15.3	0.0	31.8



#35
Dibromofluoromethane
Concen: 46.445 ug/l
RT: 7.728 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion:	113	Resp:	6866
Ion	Ratio	Lower	Upper
113	100		
111	105.3	82.6	124.0
192	21.2	17.6	26.4





#36

1,1-Dichloropropene

Concen: 5.391 ug/l

RT: 7.801 min Scan# 981

Delta R.T. -0.122 min

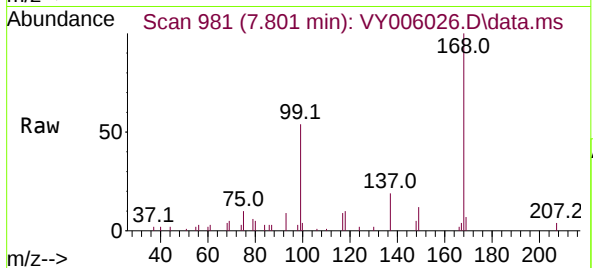
Lab File: VY006026.D

Acq: 15 Sep 2021 16:04

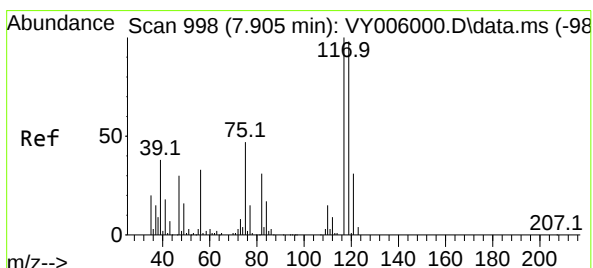
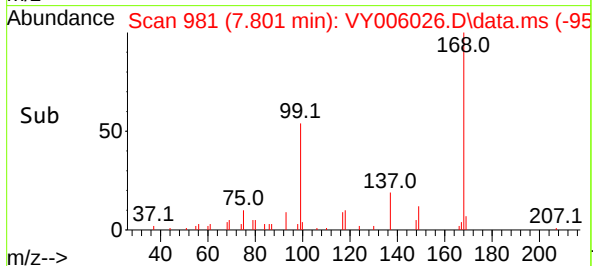
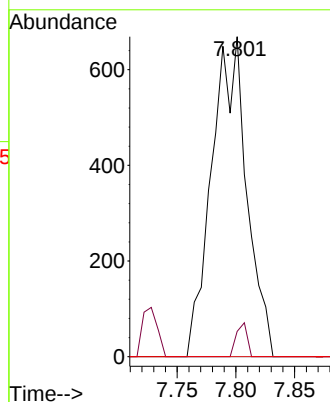
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 75	Resp: 1385
Ion Ratio	Lower Upper
75	100
110	3.2 17.1 51.2#
77	0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.079 ug/l

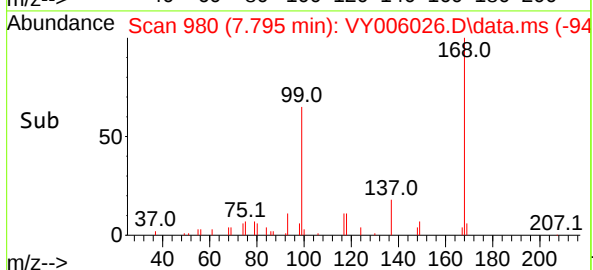
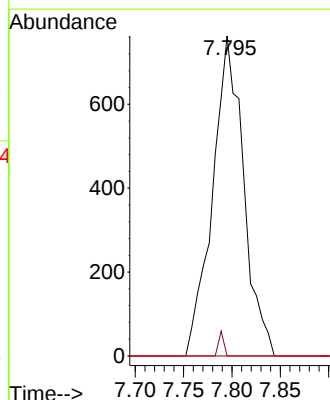
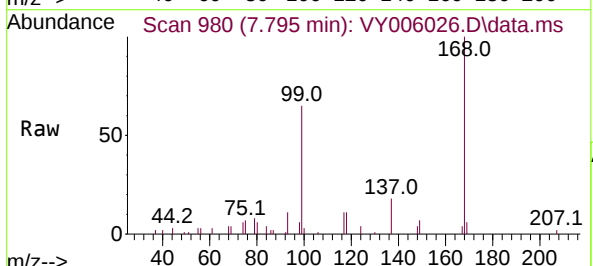
RT: 7.795 min Scan# 980

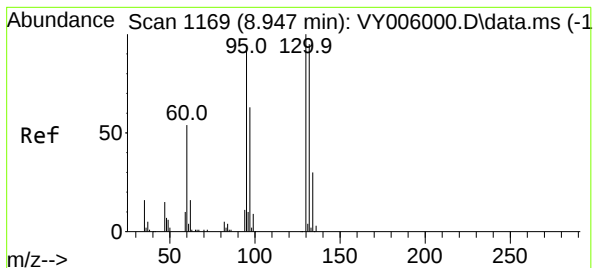
Delta R.T. -0.110 min

Lab File: VY006026.D

Acq: 15 Sep 2021 16:04

Tgt Ion: 117	Resp: 1700
Ion Ratio	Lower Upper
117	100
119	0.0 77.9 116.9#
121	0.0 24.8 37.2#





#44

Trichloroethene

Concen: 1.307 ug/l

RT: 8.941 min Scan# 1168

Delta R.T. -0.006 min

Lab File: VY006026.D

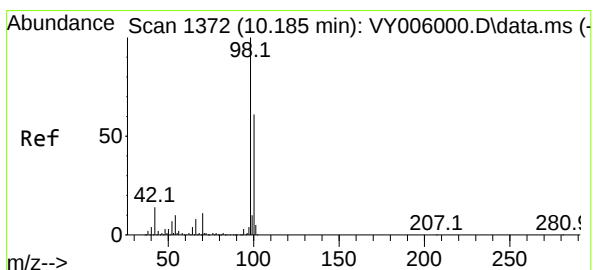
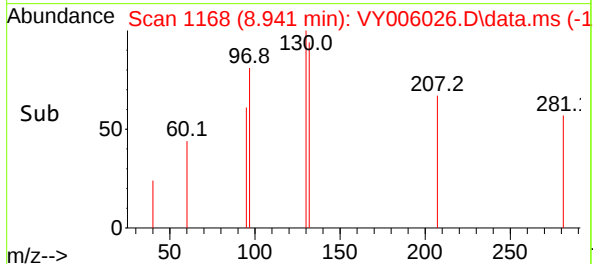
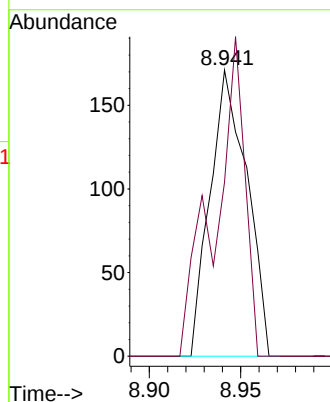
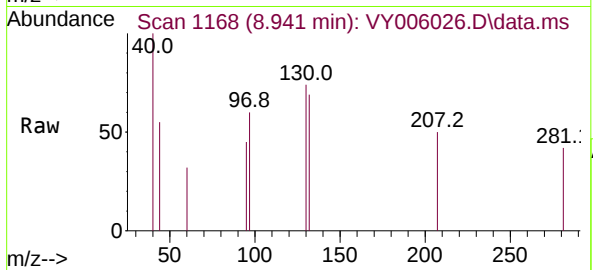
Acq: 15 Sep 2021 16:04

Instrument :
MSVOA_Y
ClientSampled :

Tgt Ion:130 Resp: 240

Ion Ratio Lower Upper

Ion	Ratio	Lower	Upper
130	100		
95	60.8	0.0	188.2



#50

Toluene-d8

Concen: 47.766 ug/l

RT: 10.185 min Scan# 1372

Delta R.T. -0.000 min

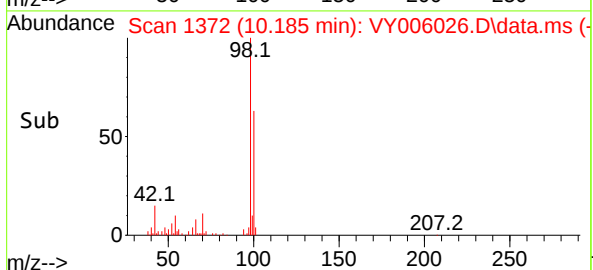
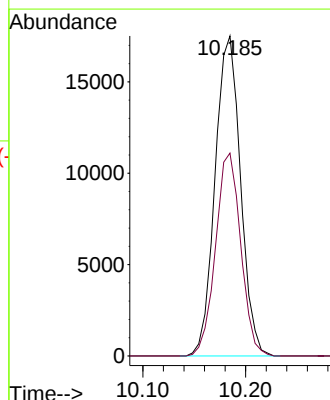
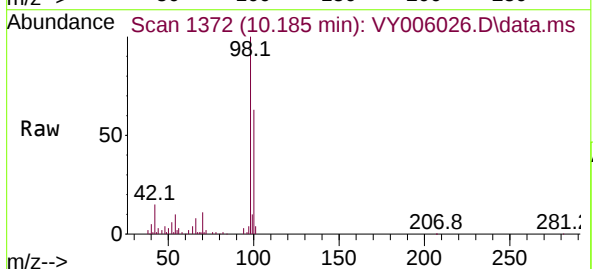
Lab File: VY006026.D

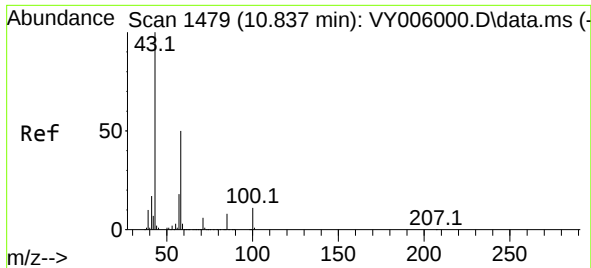
Acq: 15 Sep 2021 16:04

Tgt Ion: 98 Resp: 30096

Ion Ratio Lower Upper

Ion	Ratio	Lower	Upper
98	100		
100	62.7	50.2	75.2

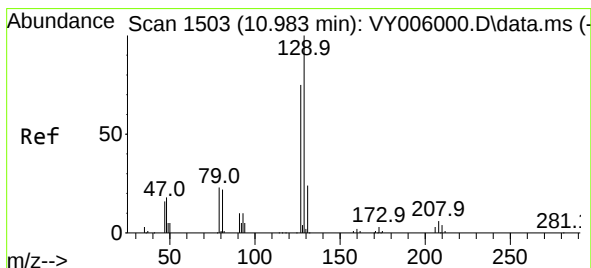
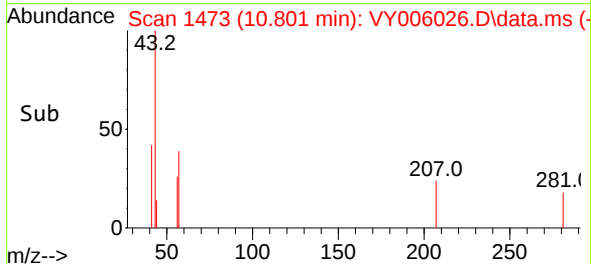
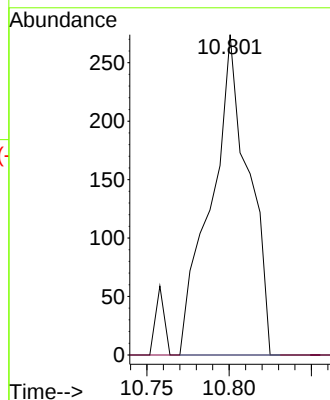
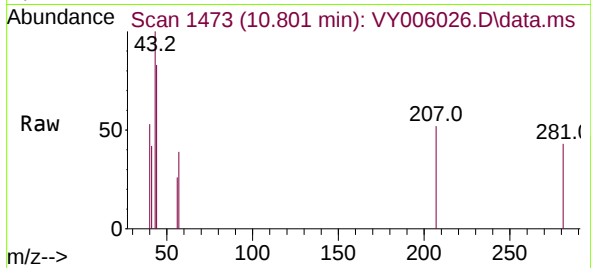




#59
2-Hexanone
Concen: 3.567 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.037 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

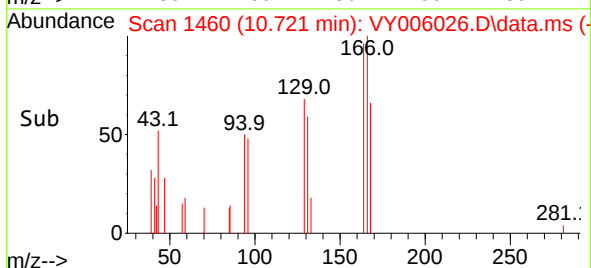
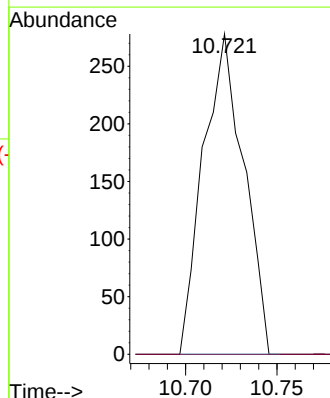
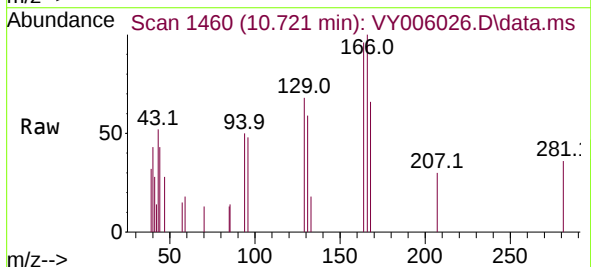
Instrument :
MSVOA_Y
ClientSampled :

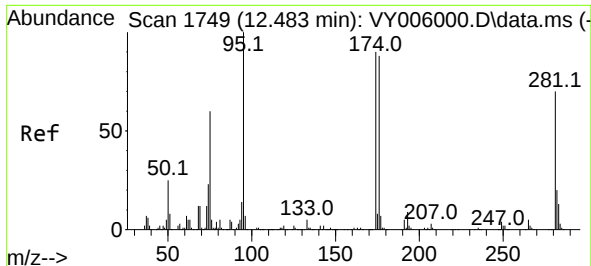
Tgt Ion: 43 Resp: 434
Ion Ratio Lower Upper
43 100
58 0.0 24.4 73.4#



#60
Dibromochloromethane
Concen: 2.567 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. -0.262 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion: 129 Resp: 429
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#

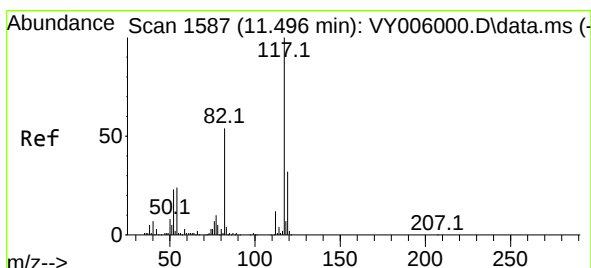
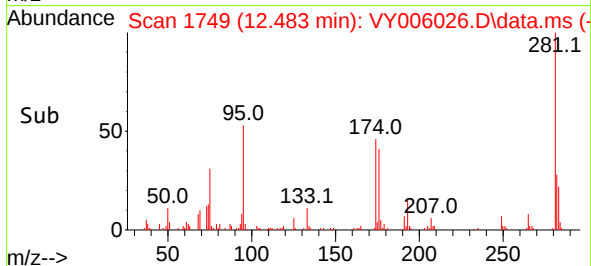
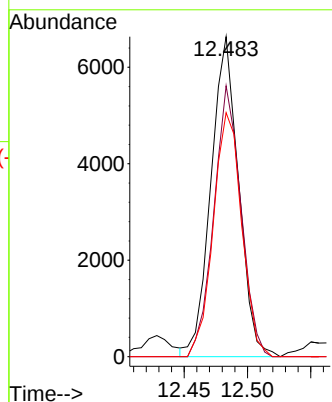
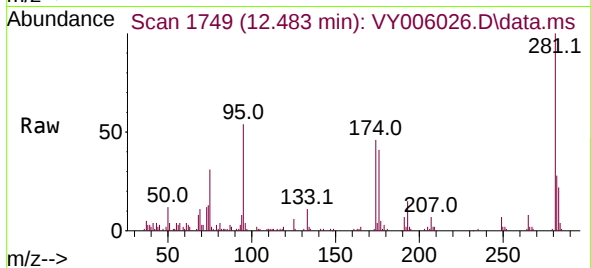




#62
4-Bromofluorobenzene
Concen: 47.111 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

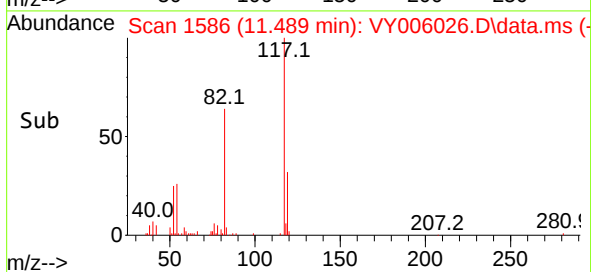
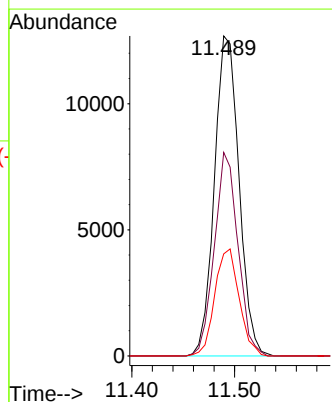
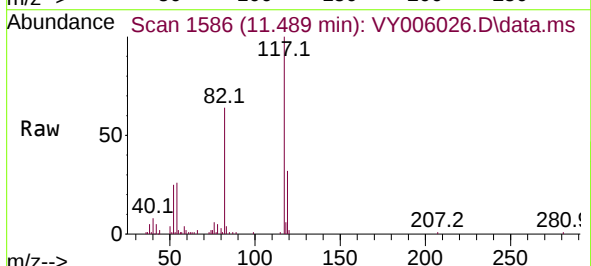
Instrument :
MSVOA_Y
ClientSampleId :

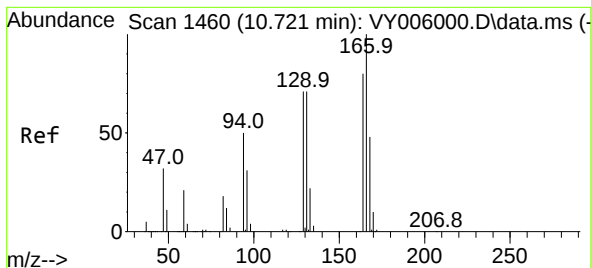
Tgt Ion: 95 Resp: 10078
Ion Ratio Lower Upper
95 100
174 82.9 0.0 177.0
176 78.2 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.006 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion:117 Resp: 21100
Ion Ratio Lower Upper
117 100
82 63.6 43.0 64.4
119 31.9 25.4 38.0

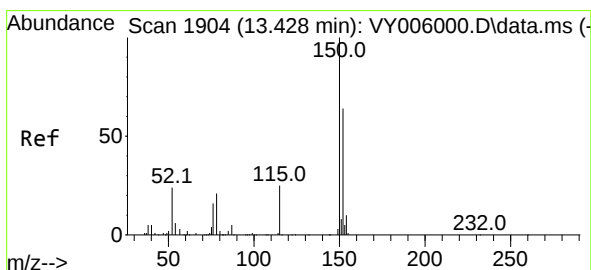
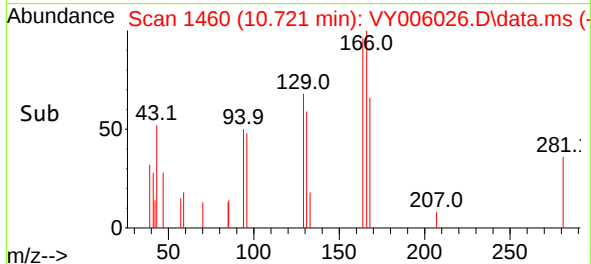
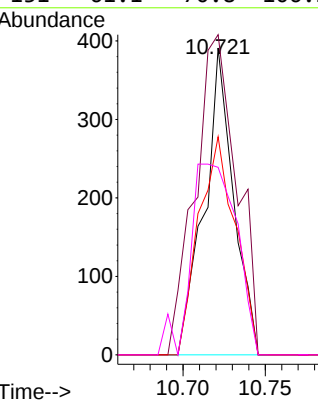
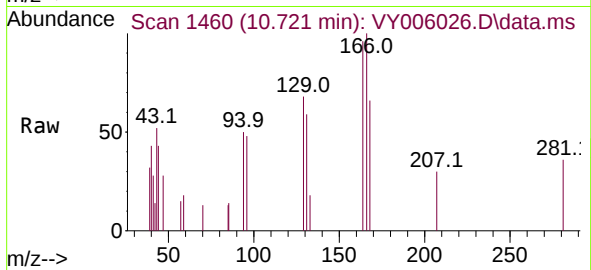




#64
Tetrachloroethene
Concen: 2.793 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

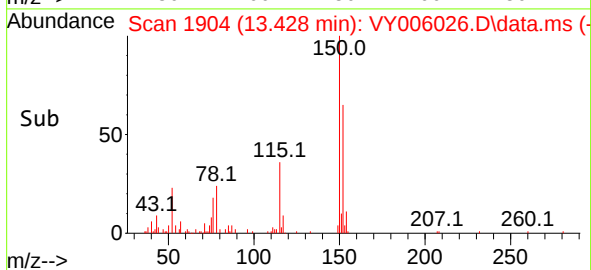
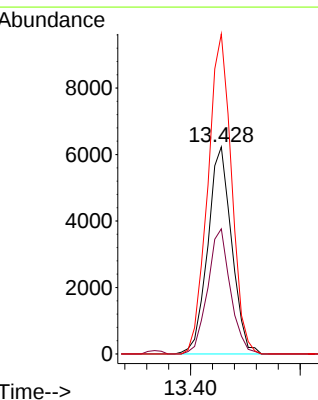
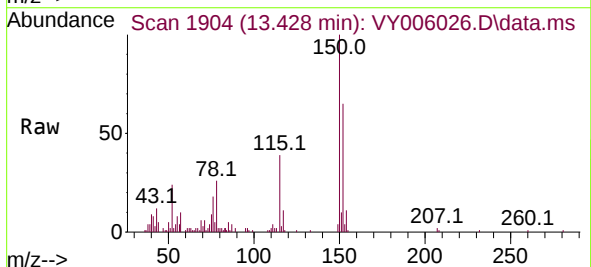
Instrument :
MSVOA_Y
ClientSampleId :

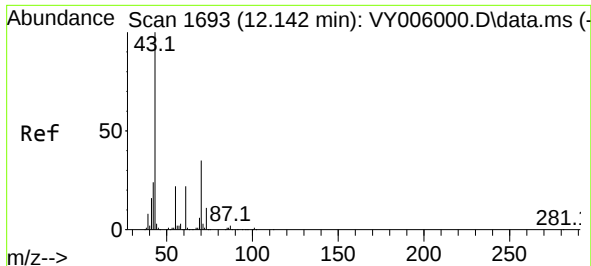
Tgt	Ion:164	Resp:	482
Ion	Ratio	Lower	Upper
164	100		
166	104.3	100.4	150.6
129	71.1	71.4	107.0#
131	61.1	70.8	106.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion:152	Resp:	9407	
Ion	Ratio	Lower	Upper
152	100		
115	57.6	28.2	84.7
150	153.3	0.0	347.6

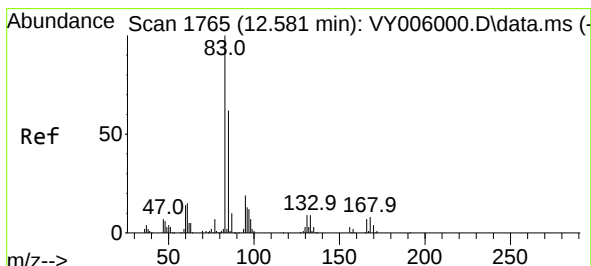
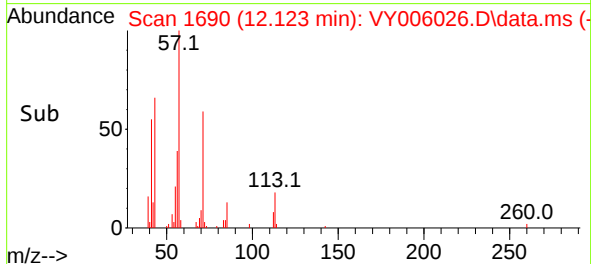
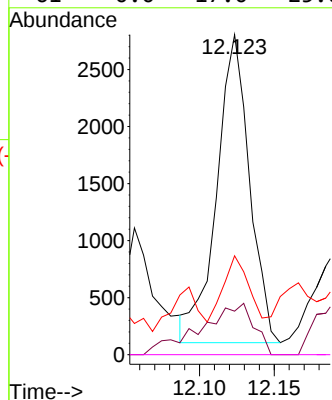
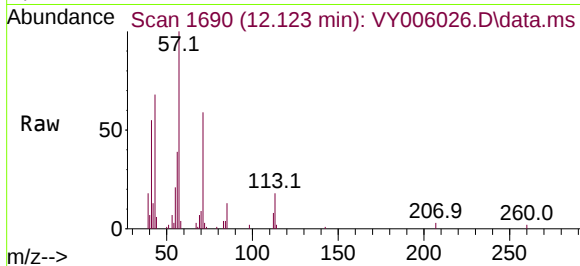




#74
N-amy1 acetate
Concen: 16.185 ug/l
RT: 12.123 min Scan# 1690
Delta R.T. -0.018 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

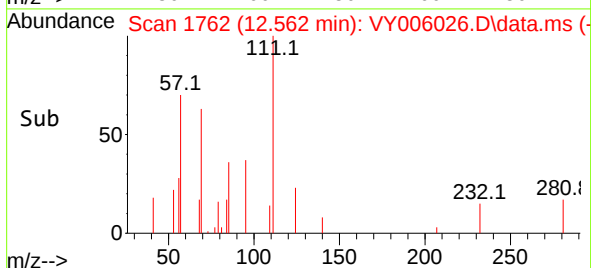
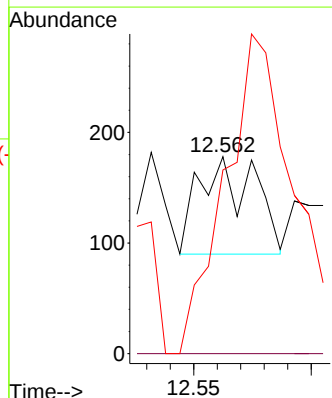
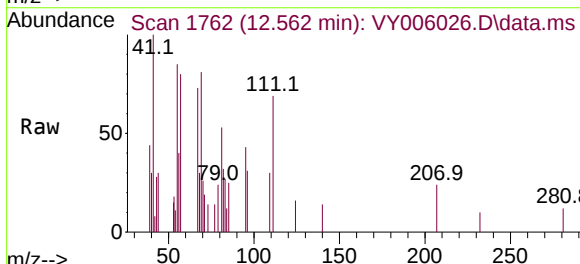
Instrument :
MSVOA_Y
ClientSampleId :

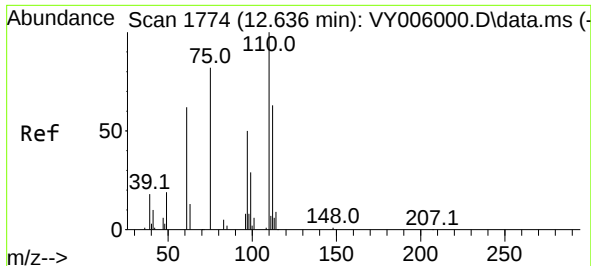
Tgt Ion:	43	Resp:	4117
Ion	Ratio	Lower	Upper
43	100		
70	27.2	28.7	43.1#
55	16.3	17.3	25.9#
61	0.0	17.0	25.6#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.036 ug/l
RT: 12.562 min Scan# 1762
Delta R.T. -0.018 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion:	83	Resp:	142
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.6	16.8#
85	402.1	32.3	96.8#

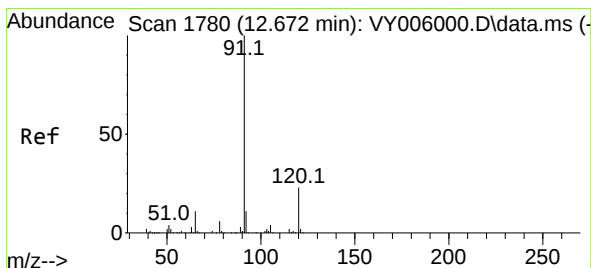
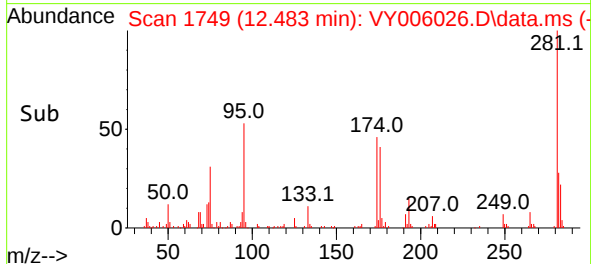
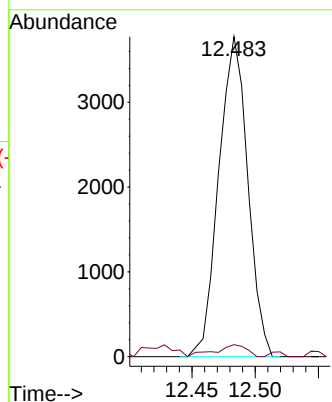
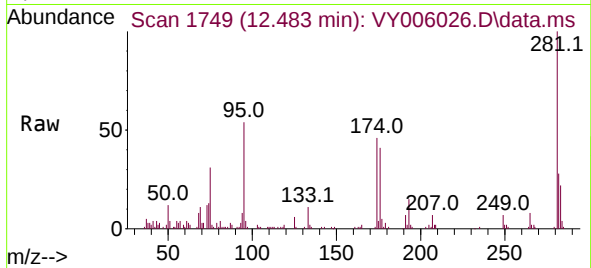




#76
1,2,3-Trichloropropane
Concen: 59.803 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

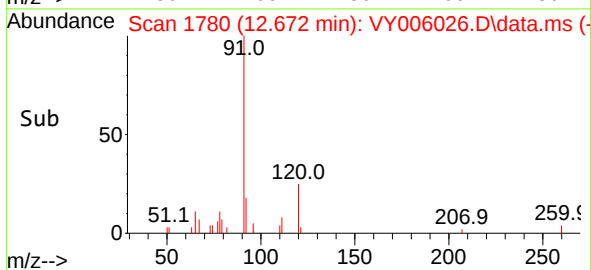
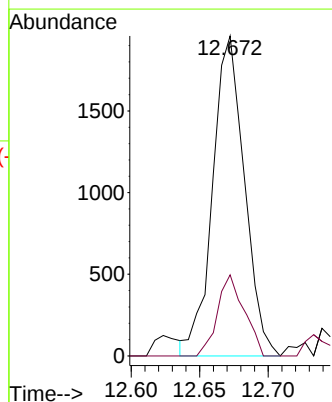
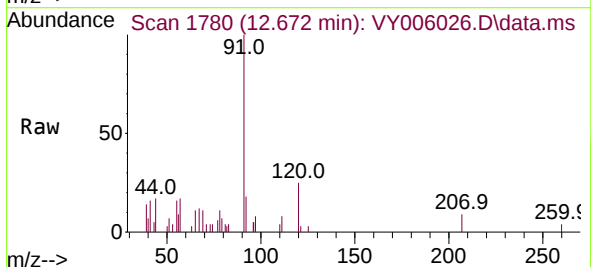
Instrument :
MSVOA_Y
ClientSampleId :

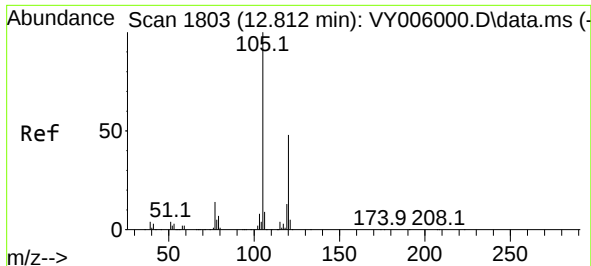
Tgt Ion: 75 Resp: 5998
Ion Ratio Lower Upper
75 100
77 4.0 0.0 0.0#



#78
n-propylbenzene
Concen: 3.467 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion: 91 Resp: 3160
Ion Ratio Lower Upper
91 100
120 21.3 11.3 33.9

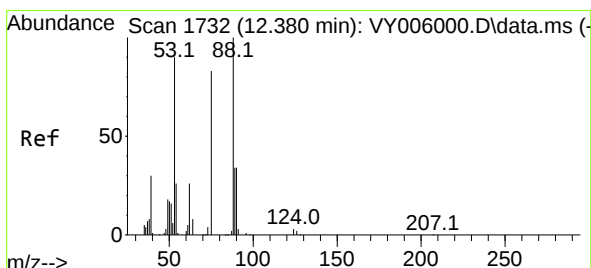
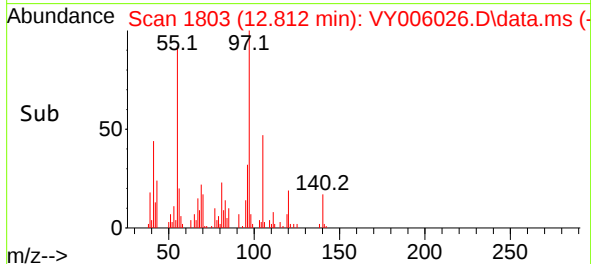
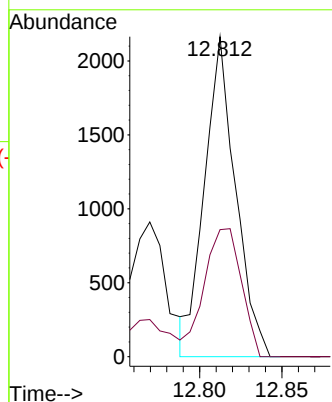
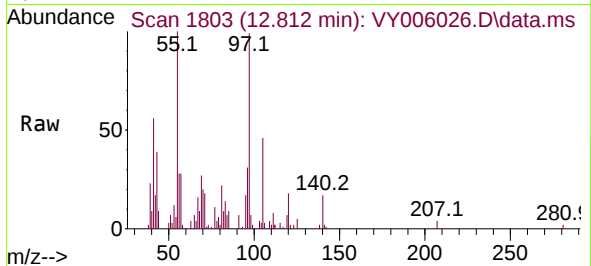




#80
1,3,5-Trimethylbenzene
Concen: 4.632 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

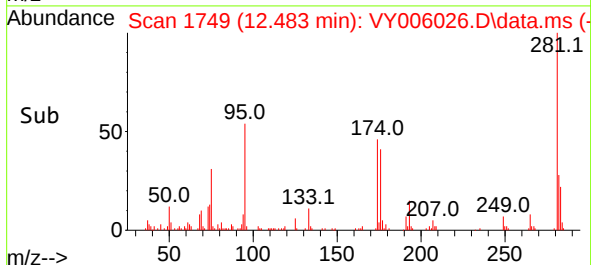
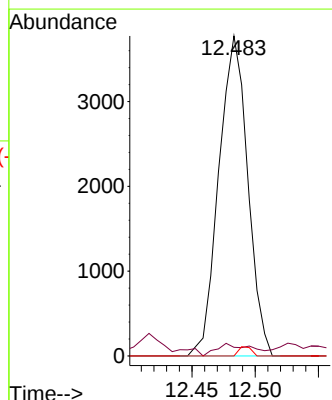
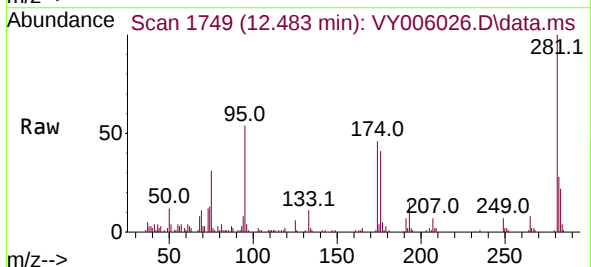
Instrument :
MSVOA_Y
ClientSampled :

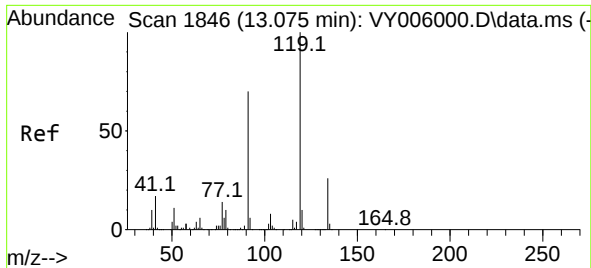
Tgt Ion:105 Resp: 2830
Ion Ratio Lower Upper
105 100
120 48.1 24.4 73.4



#81
trans-1,4-Dichloro-2-butene
Concen: 109.948 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.104 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion: 75 Resp: 5998
Ion Ratio Lower Upper
75 100
53 4.6 85.3 127.9#
89 1.3 37.0 55.4#

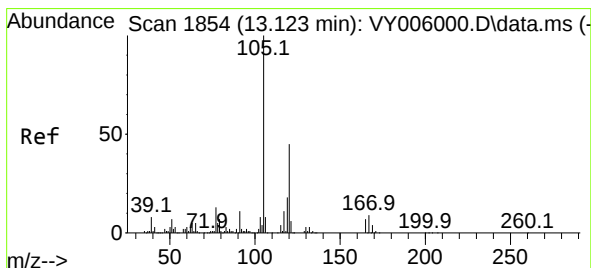
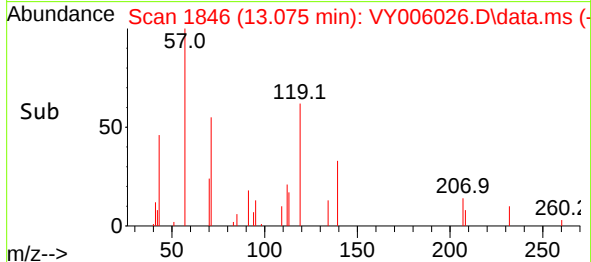
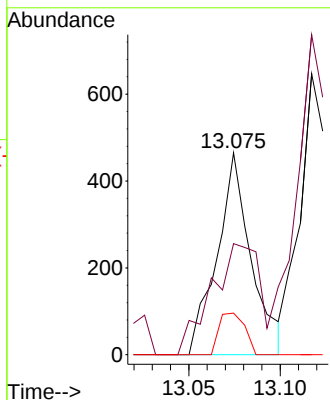
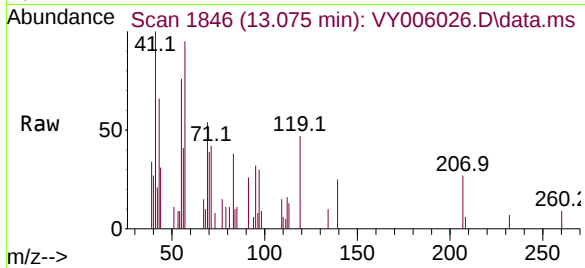




#83
tert-Butylbenzene
Concen: 1.158 ug/l
RT: 13.075 min Scan# 1846
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

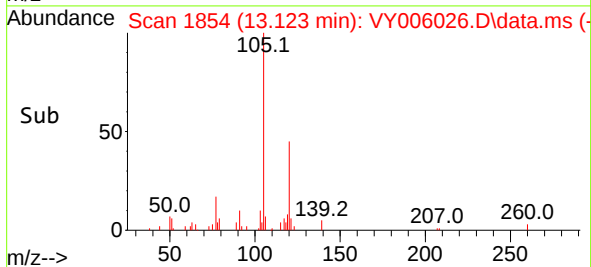
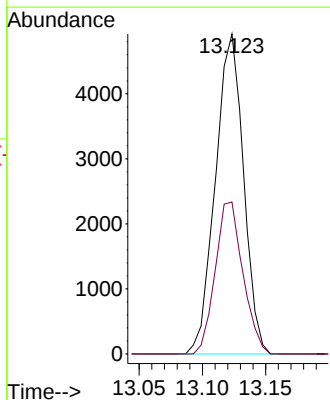
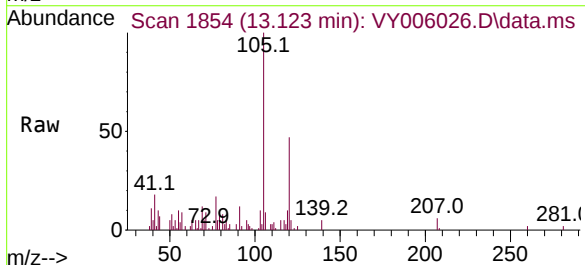
Instrument :
MSVOA_Y
ClientSampled :

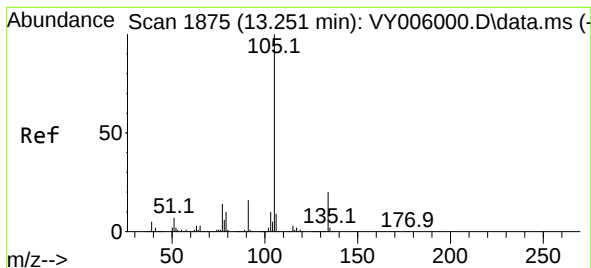
Tgt Ion:	119	Resp:	605
Ion	Ratio	Lower	Upper
119	100		
91	77.2	34.8	104.4
134	15.5	13.3	39.9



#84
1,2,4-Trimethylbenzene
Concen: 12.536 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion:	105	Resp:	7598
Ion	Ratio	Lower	Upper
105	100		
120	46.8	22.3	66.9

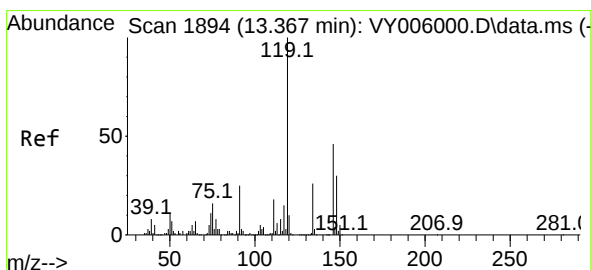
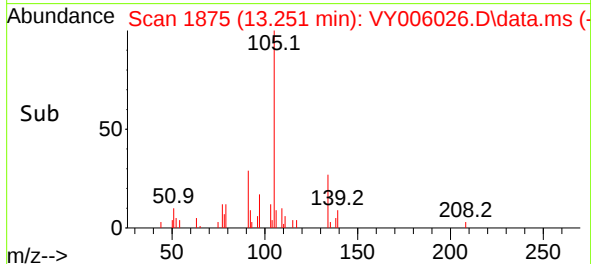
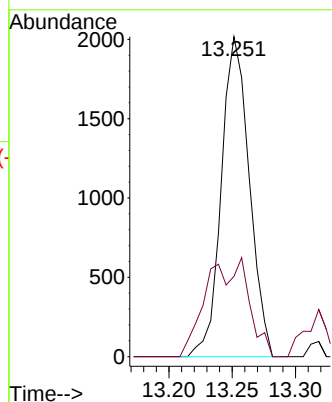
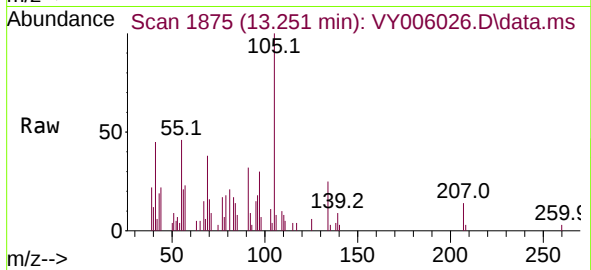




#85
 sec-Butylbenzene
 Concen: 3.961 ug/l
 RT: 13.251 min Scan# 1875
 Delta R.T. -0.000 min
 Lab File: VY006026.D
 Acq: 15 Sep 2021 16:04

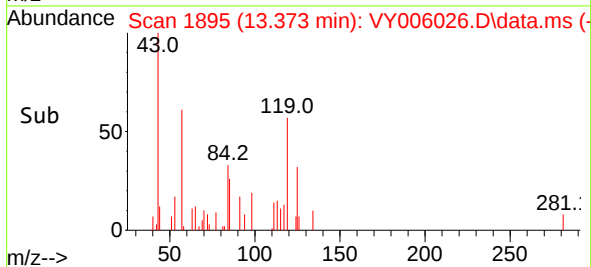
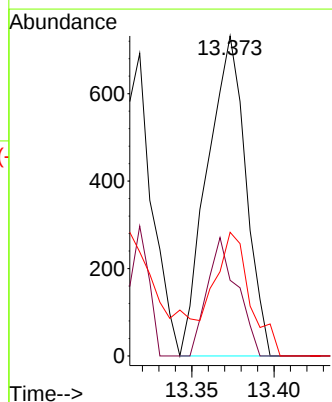
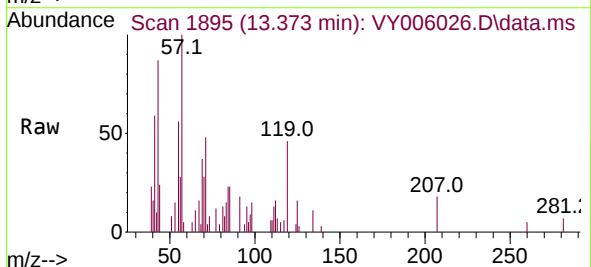
Instrument :
 MSVOA_Y
 ClientSampled :

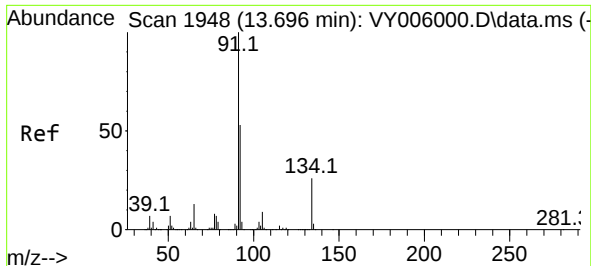
Tgt Ion:105 Resp: 3098
 Ion Ratio Lower Upper
 105 100
 134 26.1 10.2 30.4



#86
 p-Isopropyltoluene
 Concen: 1.781 ug/l
 RT: 13.373 min Scan# 1895
 Delta R.T. 0.006 min
 Lab File: VY006026.D
 Acq: 15 Sep 2021 16:04

Tgt Ion:119 Resp: 1189
 Ion Ratio Lower Upper
 119 100
 134 28.8 13.2 39.5
 91 35.1 12.4 37.2

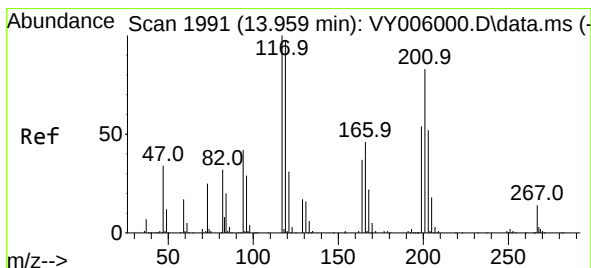
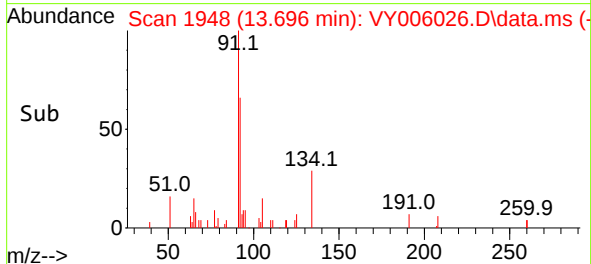
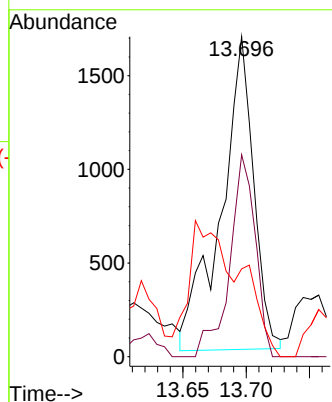
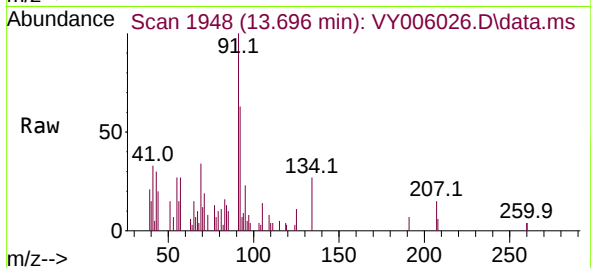




#89
n-Butylbenzene
Concen: 4.791 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. -0.000 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

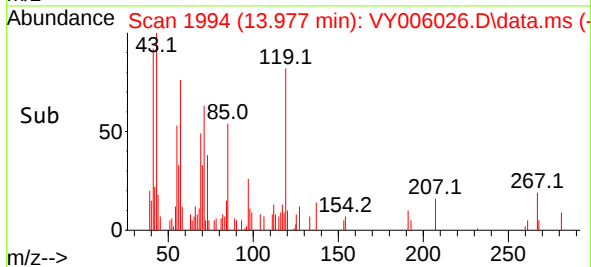
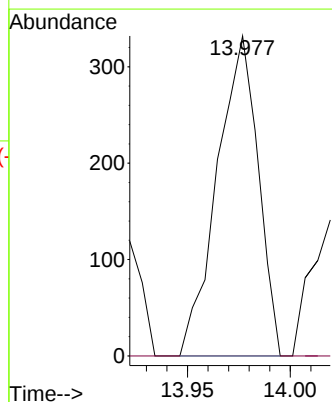
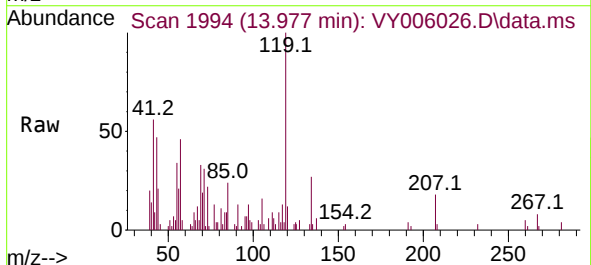
Instrument :
MSVOA_Y
ClientSampleId :

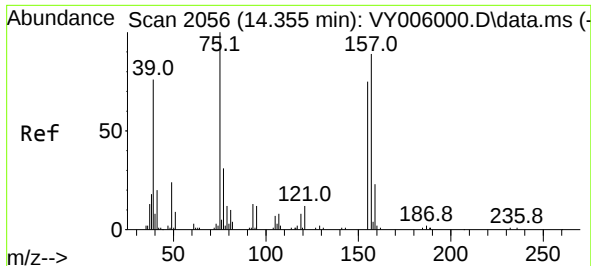
Tgt Ion: 91 Resp: 2992
Ion Ratio Lower Upper
91 100
92 50.7 26.3 78.9
134 0.0 13.0 38.9#



#90
Hexachloroethane
Concen: 3.836 ug/l
RT: 13.977 min Scan# 1994
Delta R.T. 0.018 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion: 117 Resp: 461
Ion Ratio Lower Upper
117 100
201 0.0 43.0 128.8#

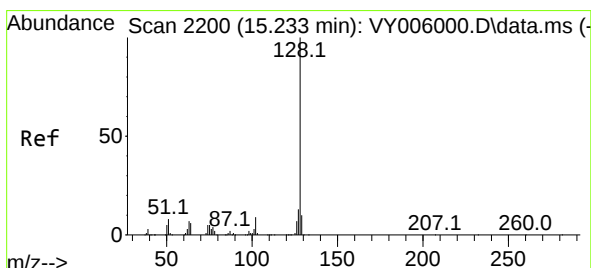
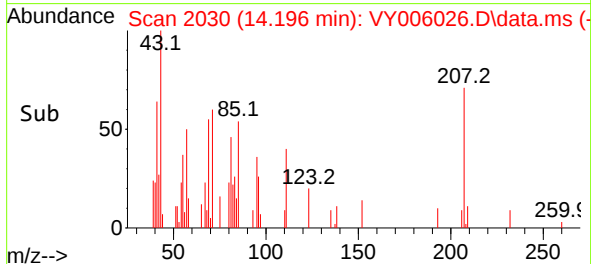
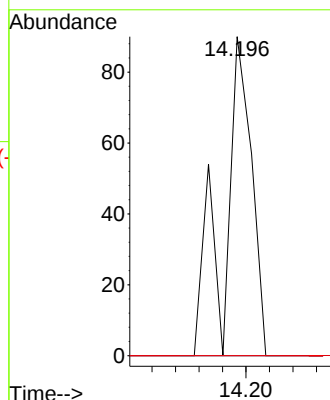
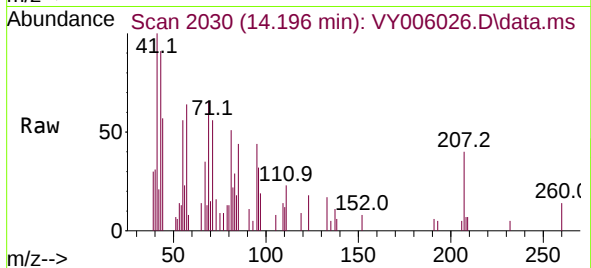




#92
1,2-Dibromo-3-Chloropropane
Concen: 2.722 ug/l
RT: 14.196 min Scan# 2030
Delta R.T. -0.159 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 74
Ion Ratio Lower Upper
75 100
155 0.0 38.0 113.9#
157 0.0 47.8 143.3#



#95
Naphthalene
Concen: 1.117 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY006026.D
Acq: 15 Sep 2021 16:04

Tgt Ion: 128 Resp: 420
Ion Ratio Lower Upper
128 100
127 0.0 11.0 16.4#
129 0.0 8.4 12.6#

