

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081023\
 Data File : VY015028.D
 Acq On : 10 Aug 2023 15:28
 Operator : SY/MD
 Sample : 03956-02
 Misc : 5.11g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 11 01:56:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080723S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 07:44:56 2023
 Response via : Initial Calibration

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

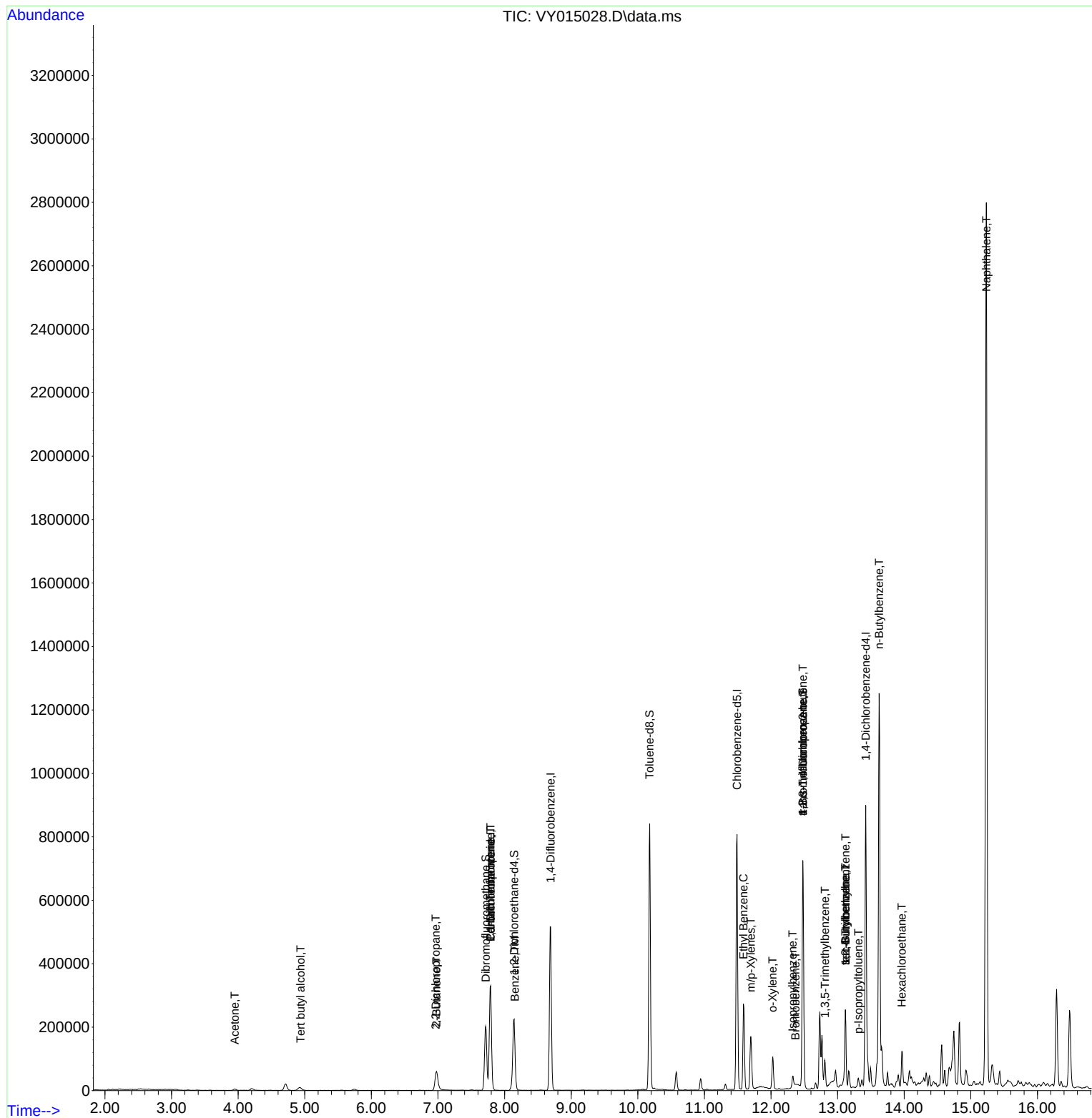
Internal Standards						
1) Pentafluorobenzene	7.789	168	262447	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	451268	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	438614	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	218968	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	167918	52.789	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.580%	
35) Dibromofluoromethane	7.715	113	143405	49.694	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.380%	
50) Toluene-d8	10.178	98	534046	48.621	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.240%	
62) 4-Bromofluorobenzene	12.477	95	211642	54.366	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 108.740%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.906	85	48	Below Cal	#	43
5) Bromomethane	2.655	94	942	Below Cal	#	45
11) Tert butyl alcohol	4.935	59	10411	13.561	ug/l #	93
16) Acetone	3.948	43	8250	8.317	ug/l	98
20) Methylene Chloride	4.716	84	15875	Below Cal		91
25) 2-Butanone	6.978	43	4722	3.324	ug/l #	72
26) 2,2-Dichloropropane	6.966	77	5050	1.094	ug/l #	54
31) Cyclohexane	7.789	56	5341	Below Cal	#	1
36) 1,1-Dichloropropene	7.789	75	20455	5.709	ug/l #	49
38) Carbon Tetrachloride	7.789	117	25448	6.318	ug/l #	16
40) Benzene	8.154	78	15932	1.510	ug/l	98
67) Ethyl Benzene	11.587	91	189847	12.998	ug/l	100
68) m/p-Xylenes	11.696	106	51433	9.205	ug/l	96
69) o-Xylene	12.026	106	26604	4.866	ug/l	100
73) Isopropylbenzene	12.324	105	21426	1.456	ug/l	97
76) 1,2,3-Trichloropropane	12.477	75	112034	42.700	ug/l #	100
77) Bromobenzene	12.367	156	5553	1.555	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.812	105	34001	2.803	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	112034	94.069	ug/l #	11
83) tert-Butylbenzene	13.117	119	16408	1.479	ug/l #	56
84) 1,2,4-Trimethylbenzene	13.117	105	129053	10.619	ug/l	99
85) sec-Butylbenzene	13.117	105	129053	7.924	ug/l #	56
86) p-Isopropyltoluene	13.312	119	14137	1.049	ug/l	98
89) n-Butylbenzene	13.623	91	122608	9.680	ug/l #	43
90) Hexachloroethane	13.964	117	6814	2.603	ug/l #	8
95) Naphthalene	15.232	128	2270308	233.779	ug/l	99

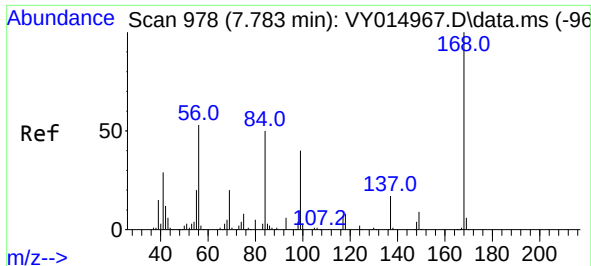
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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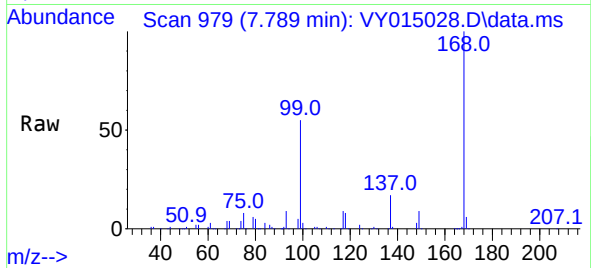
Quant Time: Aug 11 01:56:36 2023
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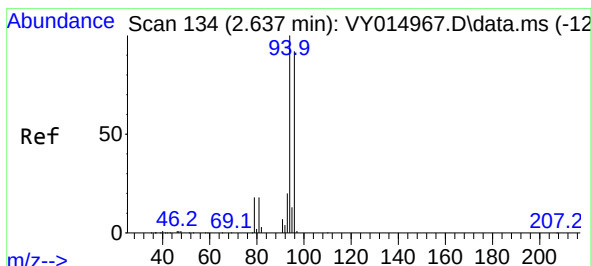
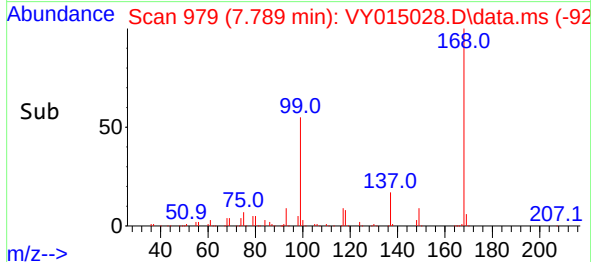
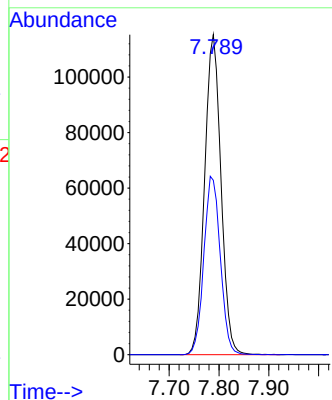


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Instrument :
MSVOA_Y
ClientSampleId :

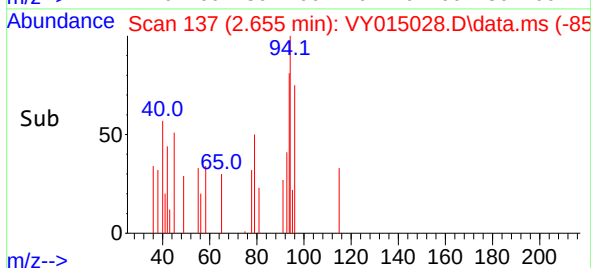
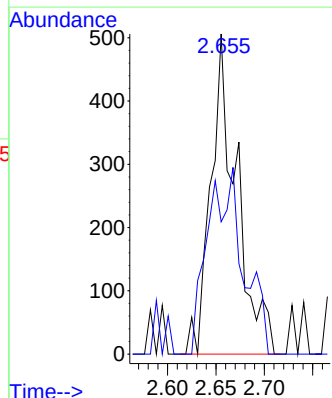
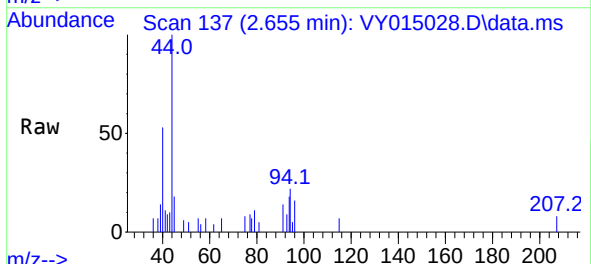


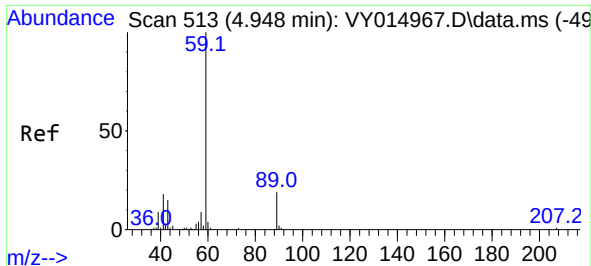
Tgt Ion:168 Resp: 262447
Ion Ratio Lower Upper
168 100
99 54.5 43.4 65.0



#5
Bromomethane
Concen: Below Cal
RT: 2.655 min Scan# 137
Delta R.T. 0.018 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion: 94 Resp: 942
Ion Ratio Lower Upper
94 100
96 41.3 75.8 113.6#





#11

Tert butyl alcohol

Concen: 13.561 ug/l

RT: 4.935 min Scan# 511

Delta R.T. -0.013 min

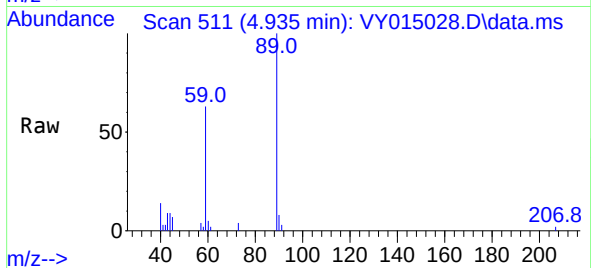
Lab File: VY015028.D

Acq: 10 Aug 2023 15:28

Instrument :

MSVOA_Y

ClientSampleId :

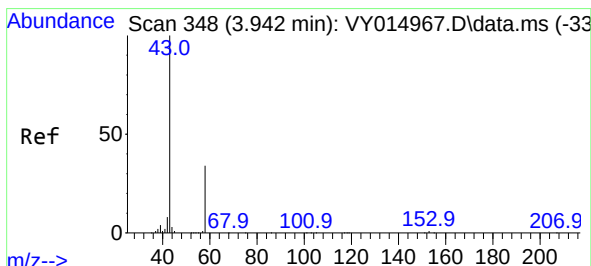
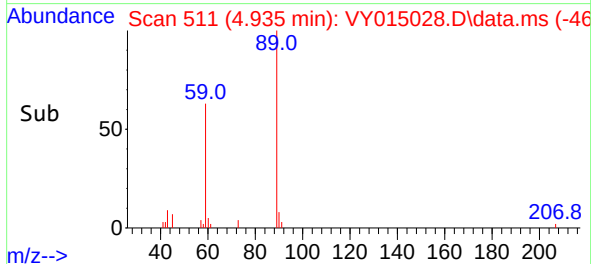
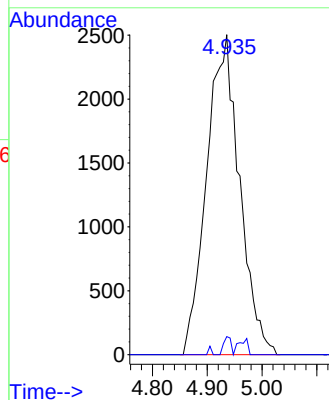


Tgt Ion: 59 Resp: 10411

Ion Ratio Lower Upper

59 100

57 1.3 3.0 4.4#



#16

Acetone

Concen: 8.317 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.006 min

Lab File: VY015028.D

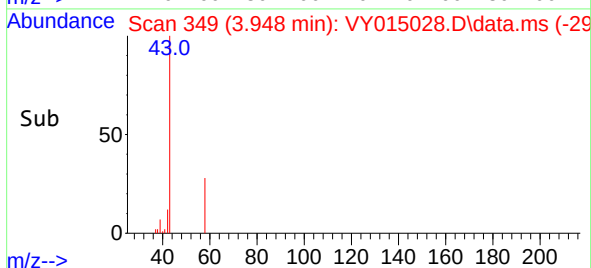
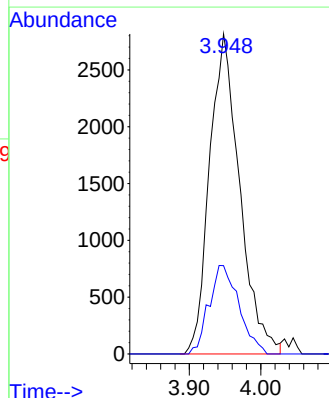
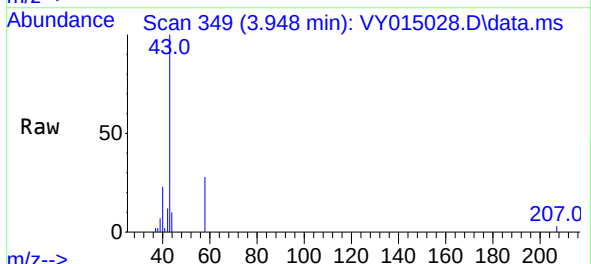
Acq: 10 Aug 2023 15:28

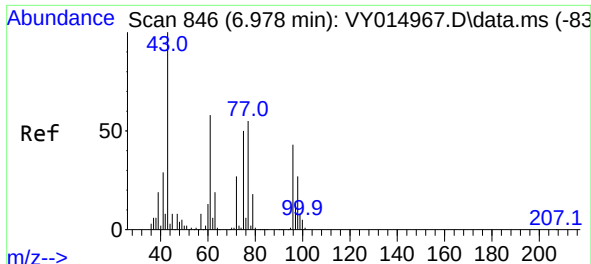
Tgt Ion: 43 Resp: 8250

Ion Ratio Lower Upper

43 100

58 27.6 22.7 34.1

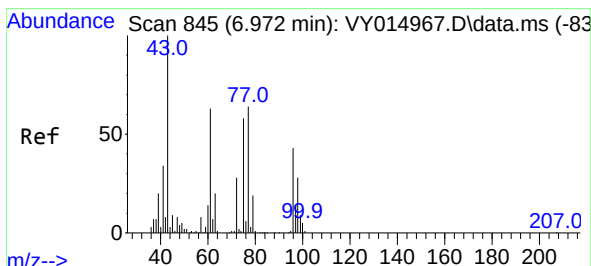
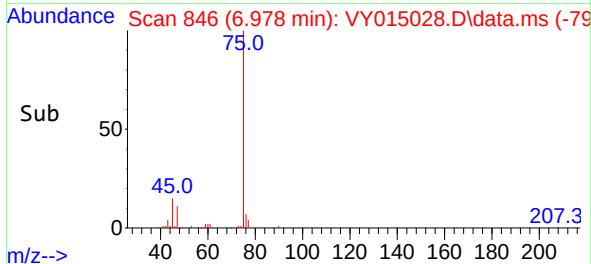
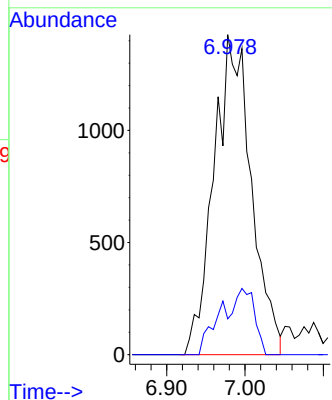
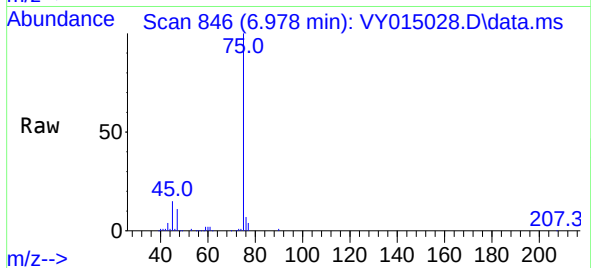




#25
2-Butanone
Concen: 3.324 ug/l
RT: 6.978 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

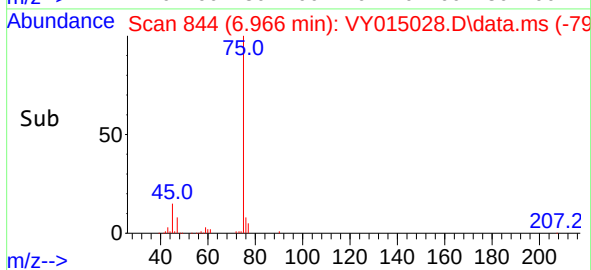
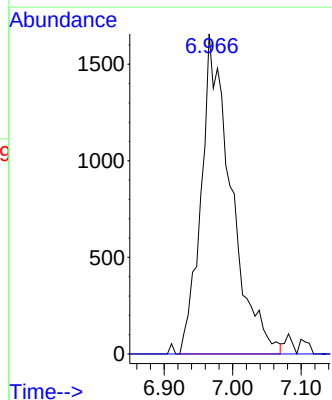
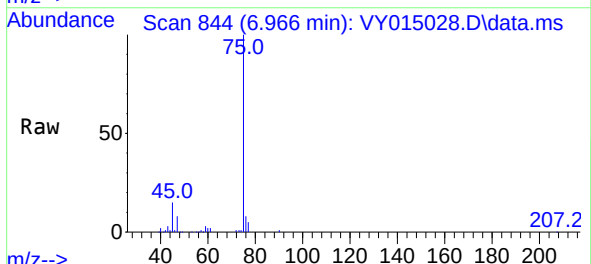
Instrument :
MSVOA_Y
ClientSampleId :

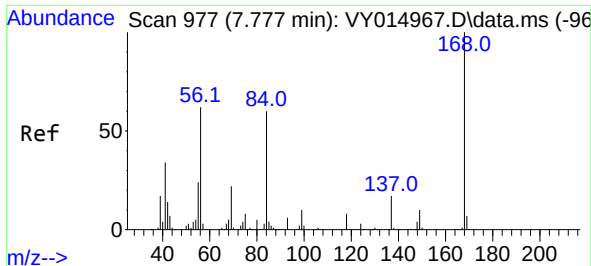
Tgt Ion: 43 Resp: 4722
Ion Ratio Lower Upper
43 100
72 11.2 20.5 30.7#



#26
2,2-Dichloropropane
Concen: 1.094 ug/l
RT: 6.966 min Scan# 844
Delta R.T. -0.006 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

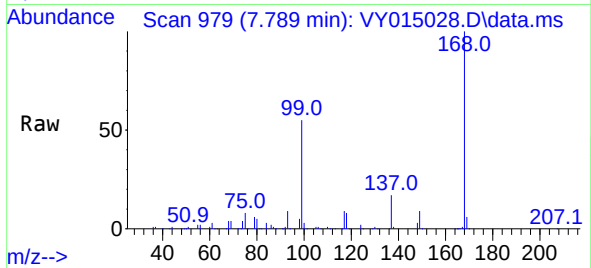
Tgt Ion: 77 Resp: 5050
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



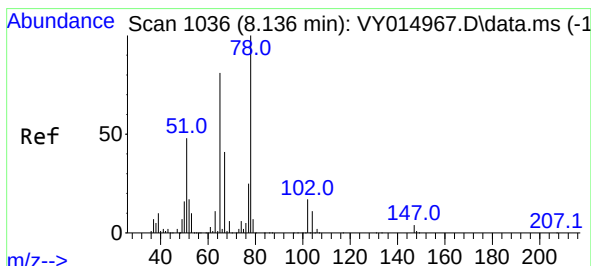
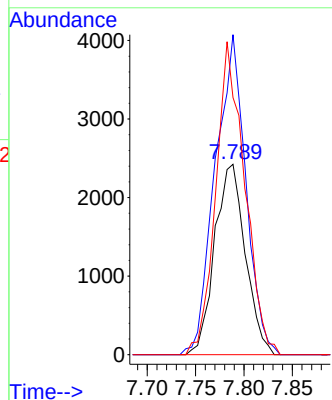
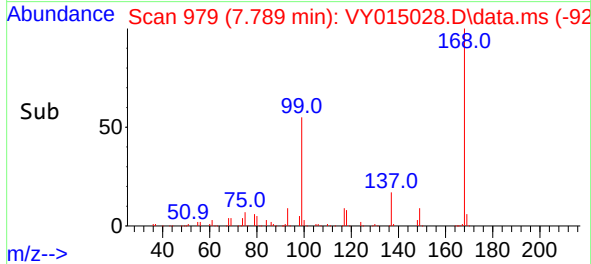


#31
Cyclohexane
Concen: Below Cal
RT: 7.789 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

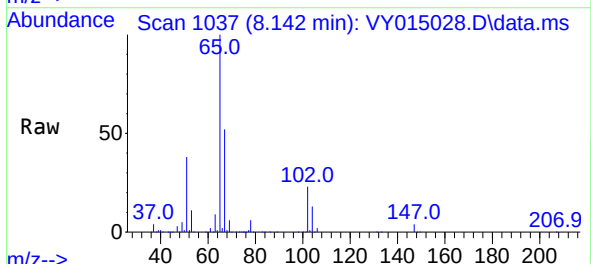
Instrument :
MSVOA_Y
ClientSampleId :



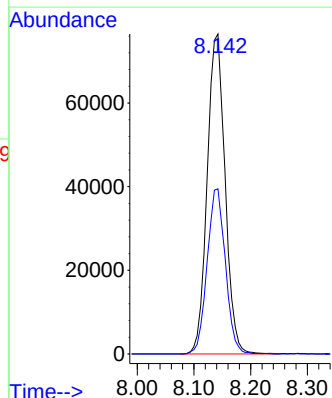
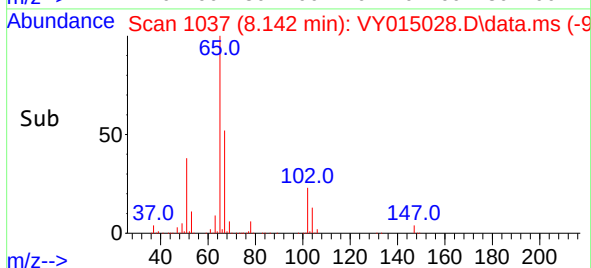
Tgt Ion: 56 Resp: 5341
Ion Ratio Lower Upper
56 100
69 168.0 27.8 41.6#
84 135.0 66.4 99.6#

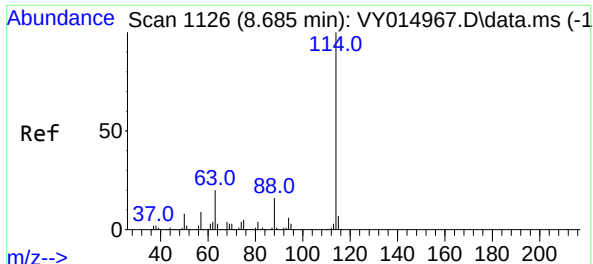


#33
1,2-Dichloroethane-d4
Concen: 52.789 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28



Tgt Ion: 65 Resp: 167918
Ion Ratio Lower Upper
65 100
67 52.6 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY015028.D

Acq: 10 Aug 2023 15:28

Instrument :

MSVOA_Y

ClientSampleId :

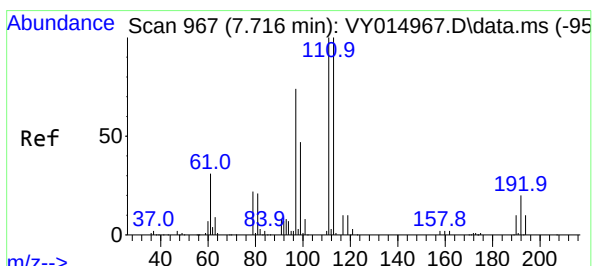
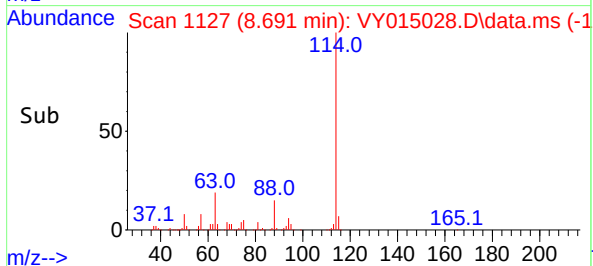
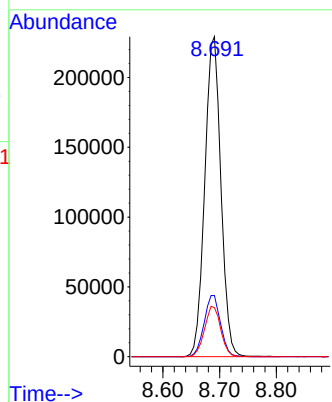
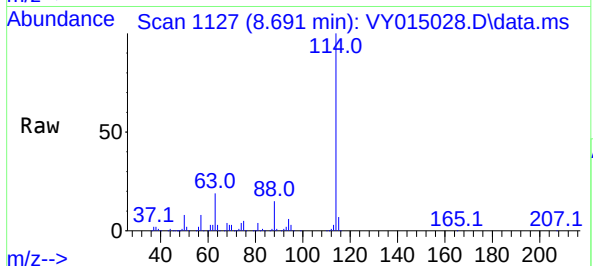
Tgt Ion:114 Resp: 451268

Ion Ratio Lower Upper

114 100

63 19.1 0.0 42.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.694 ug/l

RT: 7.715 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY015028.D

Acq: 10 Aug 2023 15:28

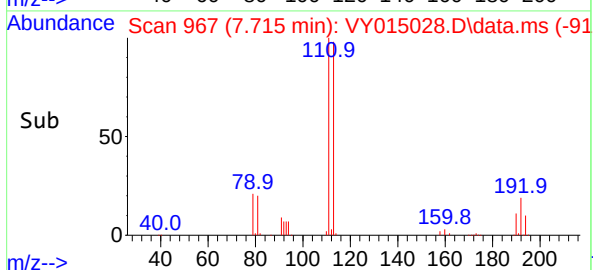
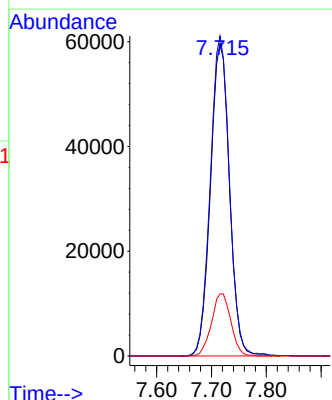
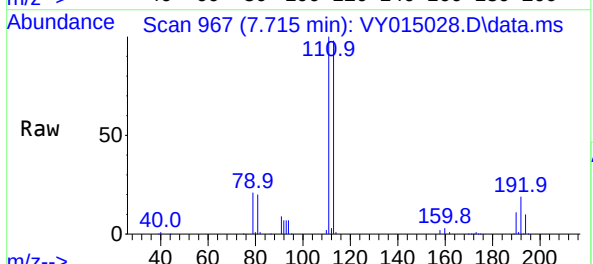
Tgt Ion:113 Resp: 143405

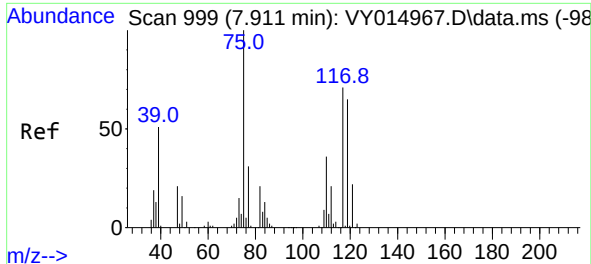
Ion Ratio Lower Upper

113 100

111 103.0 81.3 121.9

192 20.3 16.9 25.3

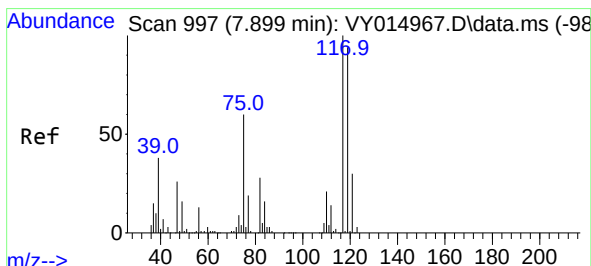
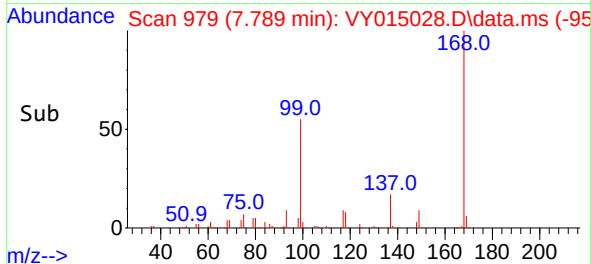
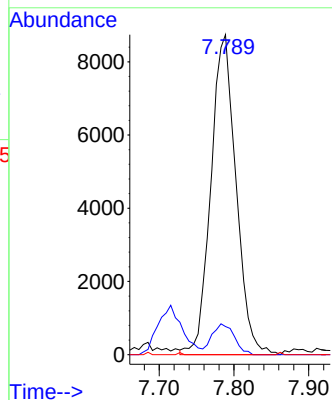
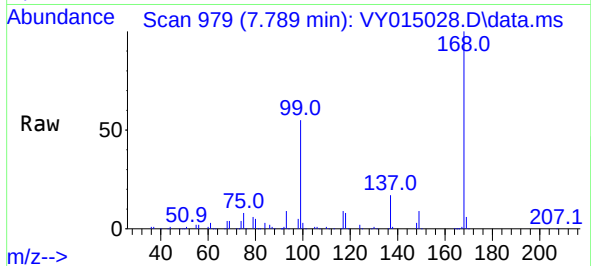




#36
1,1-Dichloropropene
Concen: 5.709 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

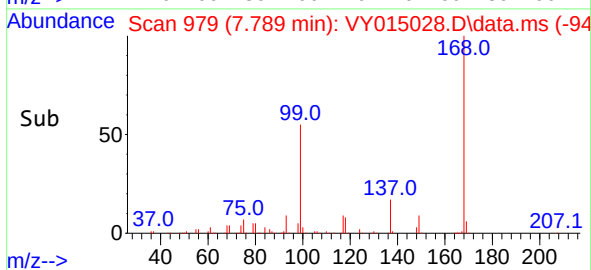
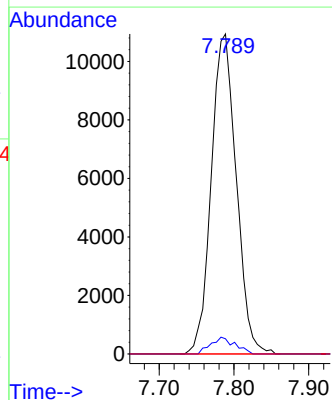
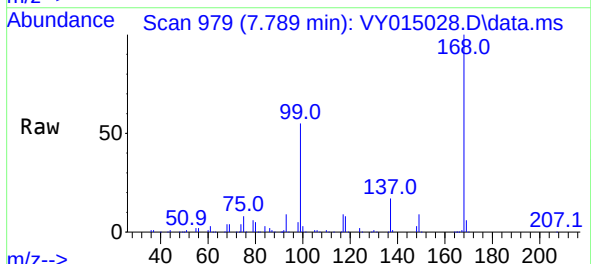
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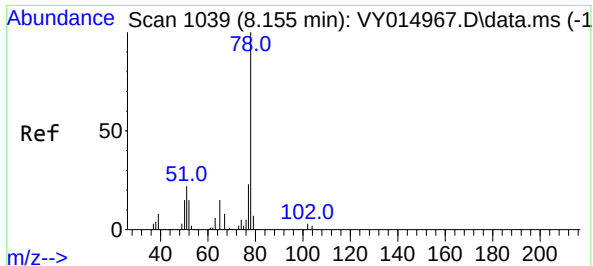
Tgt Ion: 75 Resp: 20455
Ion Ratio Lower Upper
75 100
110 8.5 17.8 53.5#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 6.318 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.110 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion: 117 Resp: 25448
Ion Ratio Lower Upper
117 100
119 4.7 76.4 114.6#
121 0.0 25.8 38.6#

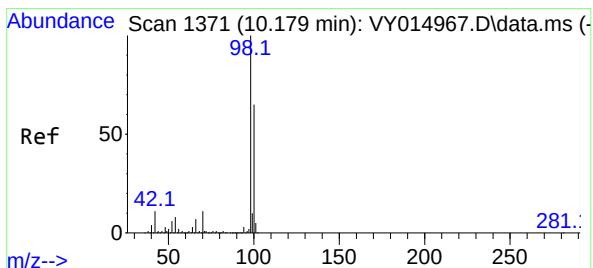
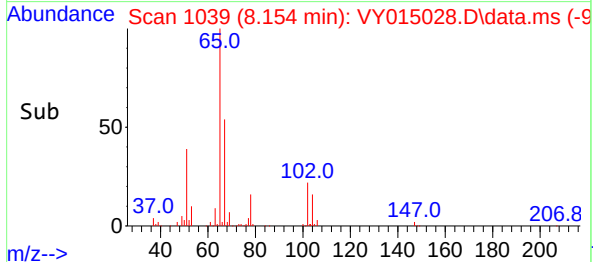
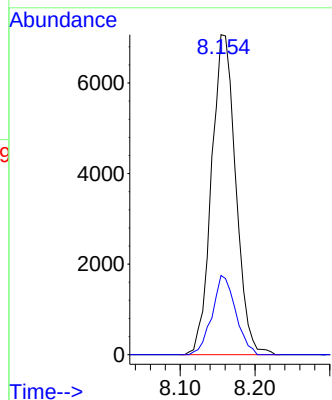
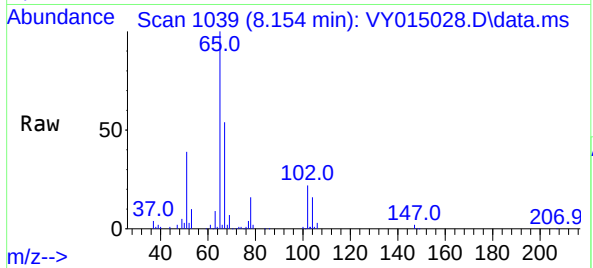




#40
Benzene
Concen: 1.510 ug/l
RT: 8.154 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

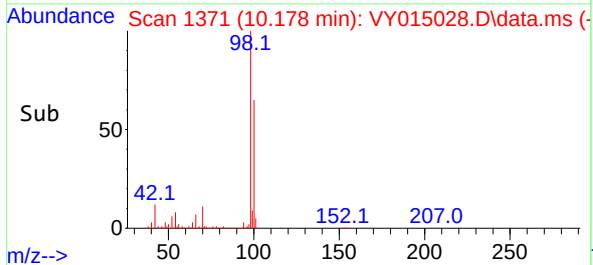
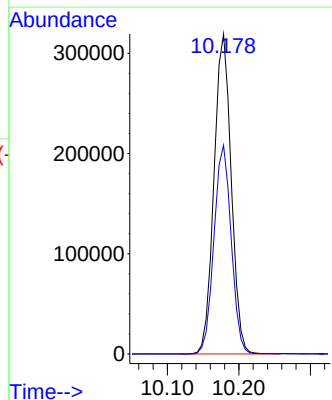
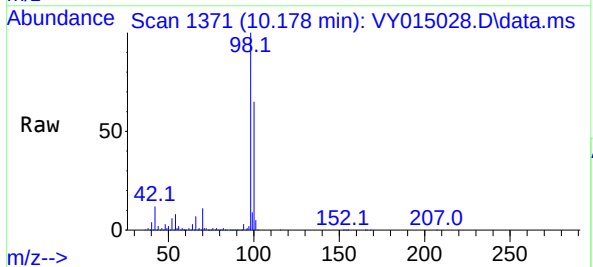
Instrument :
MSVOA_Y
ClientSampleId :

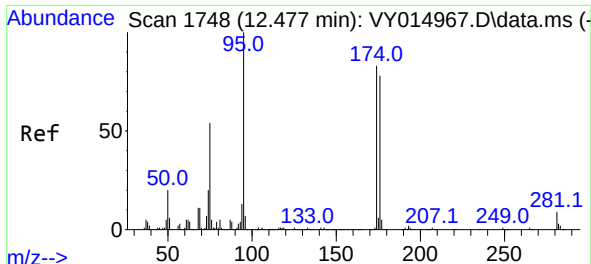
Tgt Ion: 78 Resp: 15932
Ion Ratio Lower Upper
78 100
77 24.8 19.0 28.6



#50
Toluene-d8
Concen: 48.621 ug/l
RT: 10.178 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion: 98 Resp: 534046
Ion Ratio Lower Upper
98 100
100 65.3 50.1 75.1

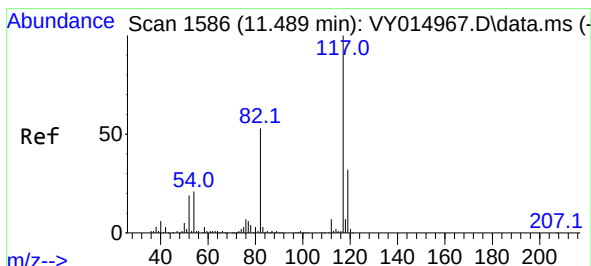
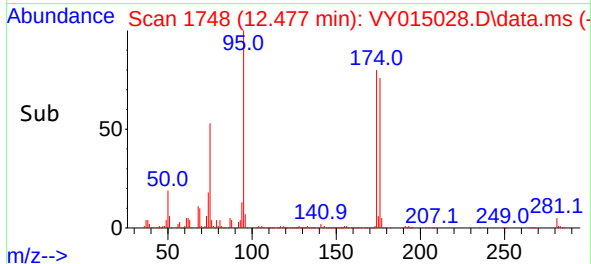
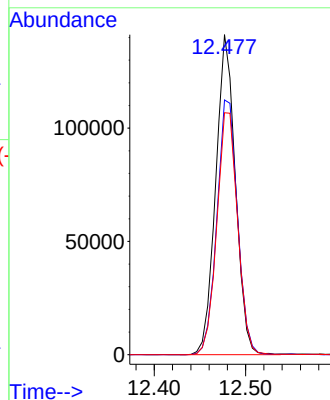
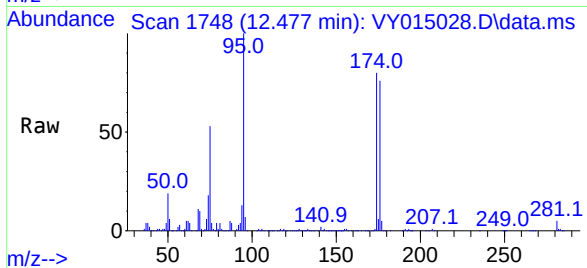




#62
4-Bromofluorobenzene
Concen: 54.366 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

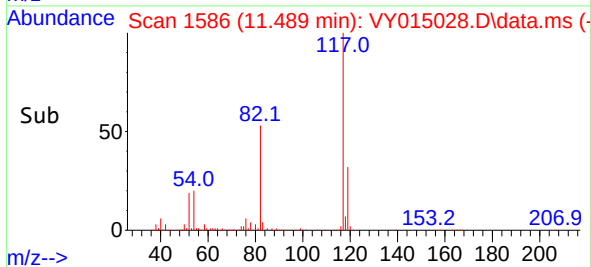
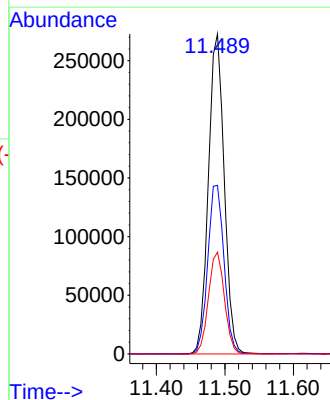
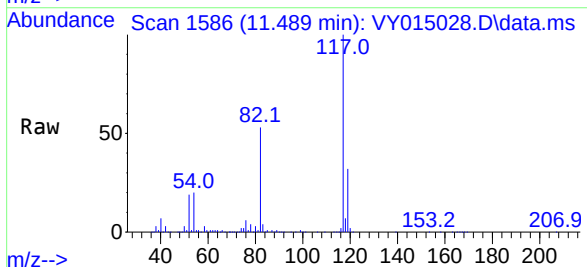
Instrument :
MSVOA_Y
ClientSampleId :

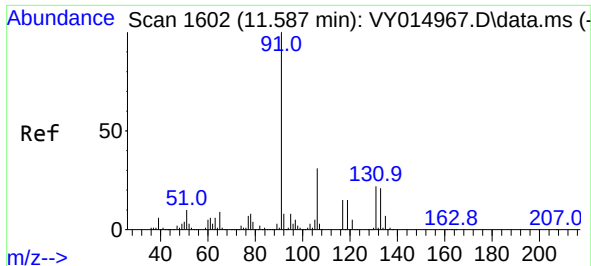
Tgt Ion: 95 Resp: 211642
Ion Ratio Lower Upper
95 100
174 83.4 0.0 178.2
176 80.1 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion: 117 Resp: 438614
Ion Ratio Lower Upper
117 100
82 52.7 43.4 65.0
119 31.8 26.3 39.5

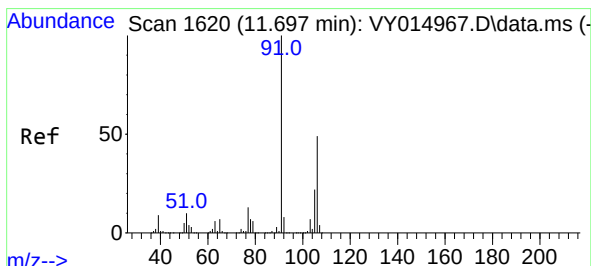
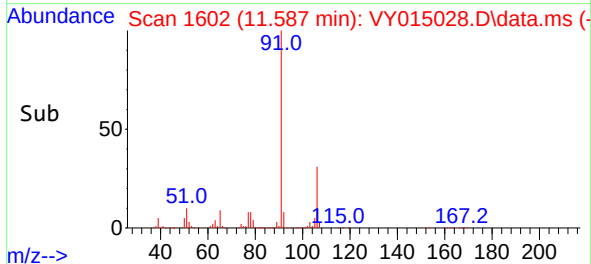
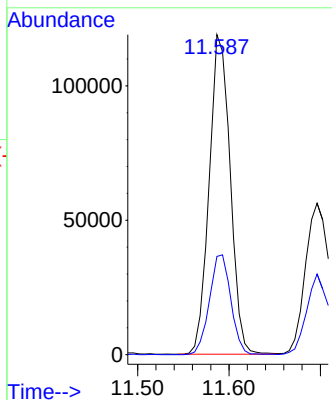
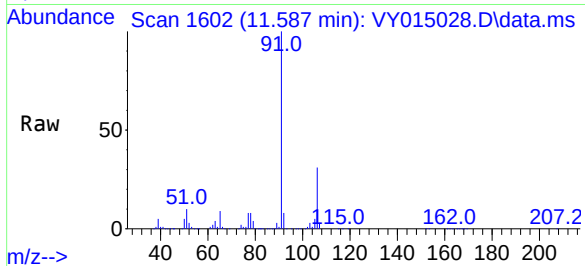




#67
Ethyl Benzene
Concen: 12.998 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

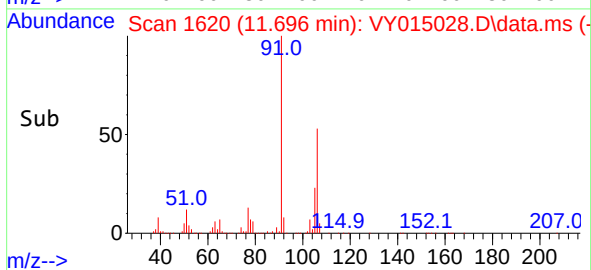
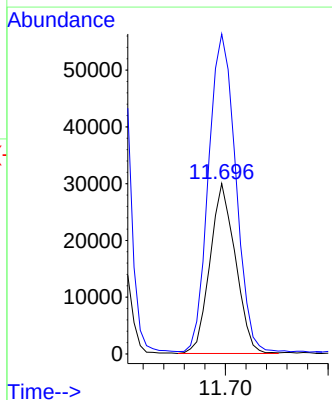
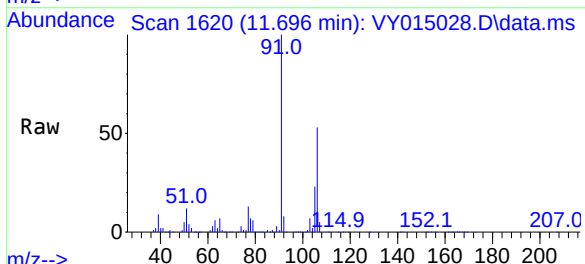
Instrument :
MSVOA_Y
ClientSampleId :

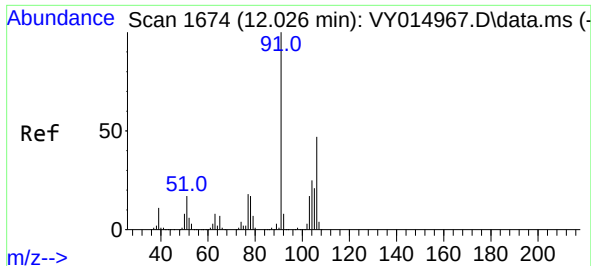
Tgt Ion: 91 Resp: 189847
Ion Ratio Lower Upper
91 100
106 30.8 24.6 36.8



#68
m/p-Xylenes
Concen: 9.205 ug/l
RT: 11.696 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion:106 Resp: 51433
Ion Ratio Lower Upper
106 100
91 200.6 166.1 249.1

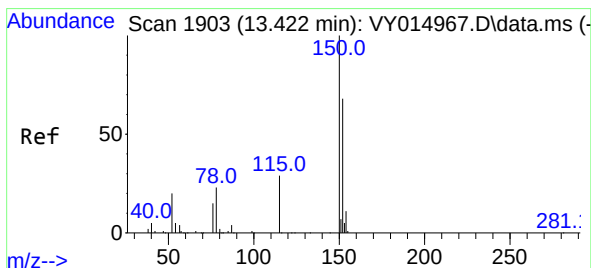
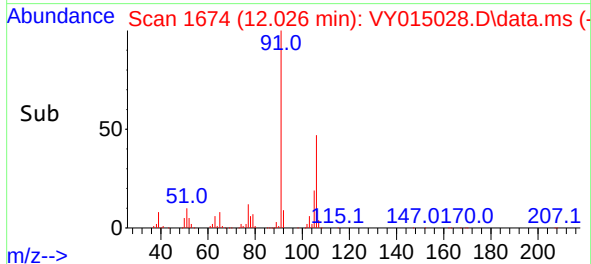
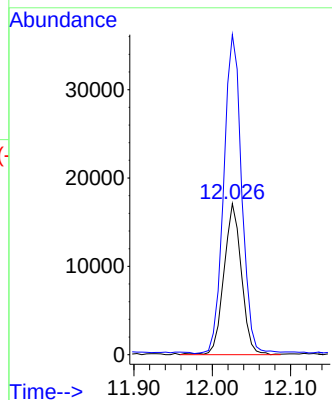
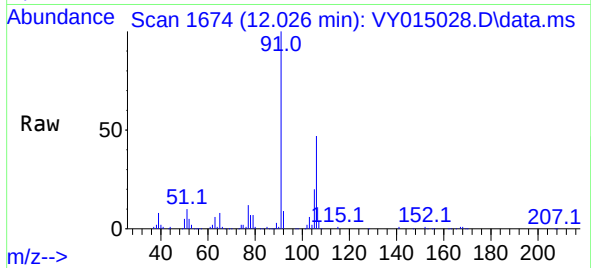




#69
o-Xylene
Concen: 4.866 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

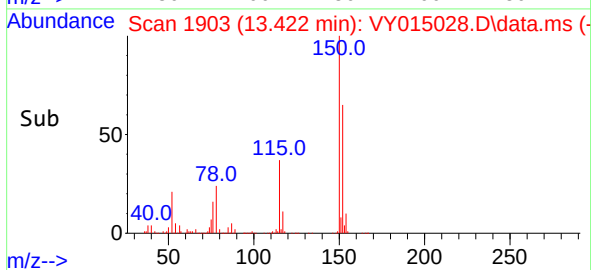
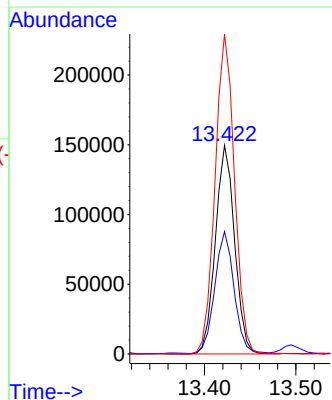
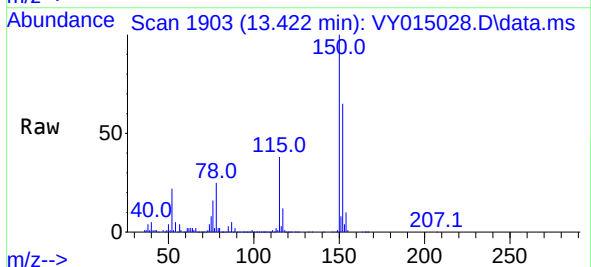
Instrument :
MSVOA_Y
ClientSampleId :

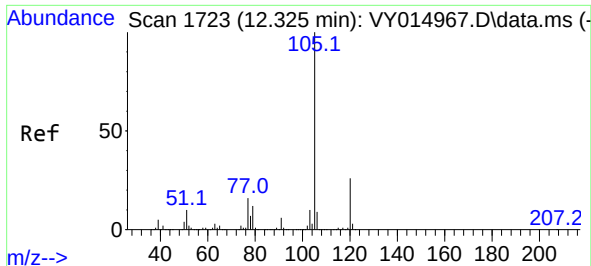
Tgt Ion:106 Resp: 26604
Ion Ratio Lower Upper
106 100
91 216.2 108.1 324.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

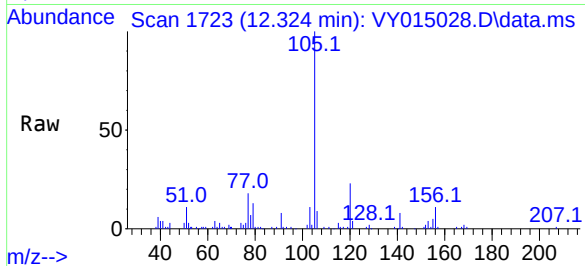
Tgt Ion:152 Resp: 218968
Ion Ratio Lower Upper
152 100
115 58.6 28.8 86.5
150 154.9 0.0 348.8



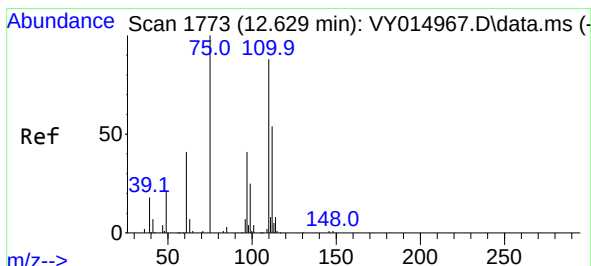
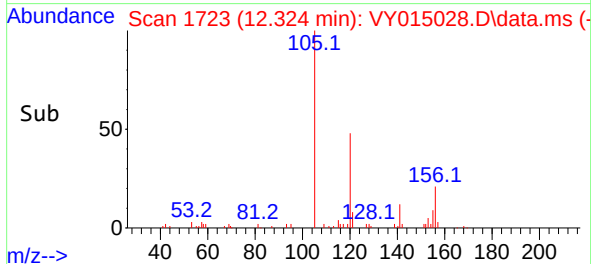
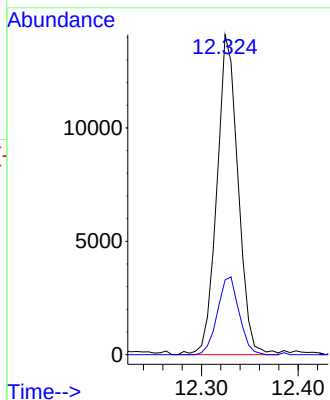


#73
Isopropylbenzene
Concen: 1.456 ug/l
RT: 12.324 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Instrument :
MSVOA_Y
ClientSampleId :

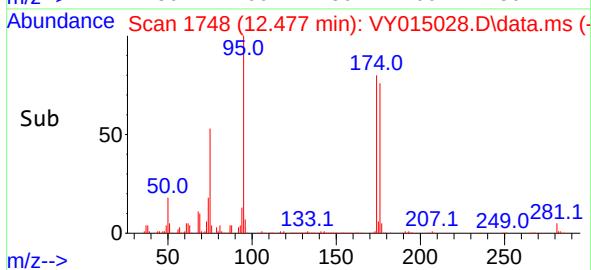
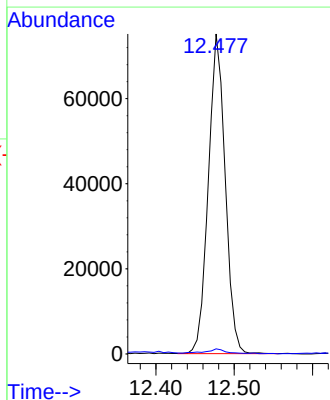
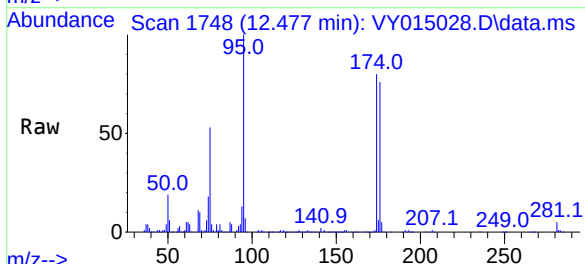


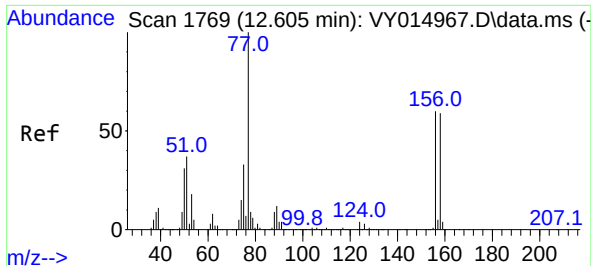
Tgt Ion:105 Resp: 21426
Ion Ratio Lower Upper
105 100
120 24.9 13.3 39.9



#76
1,2,3-Trichloropropane
Concen: 42.700 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.153 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion: 75 Resp: 112034
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#

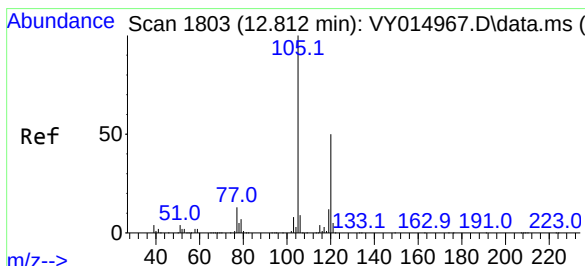
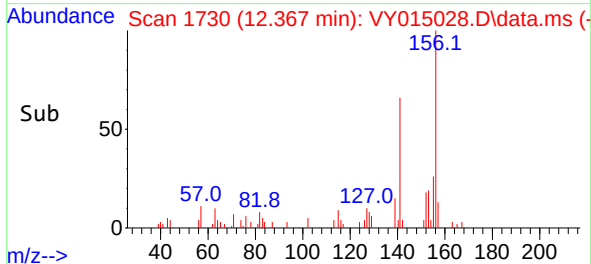
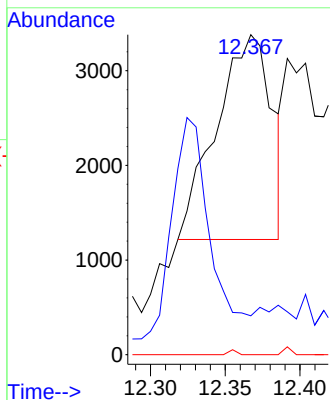
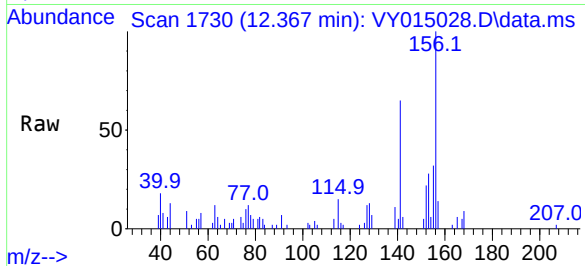




#77
Bromobenzene
Concen: 1.555 ug/l
RT: 12.367 min Scan# 1769
Delta R.T. -0.238 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

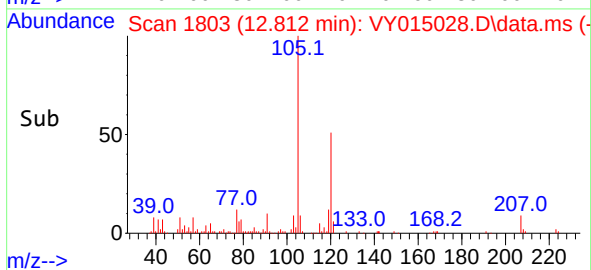
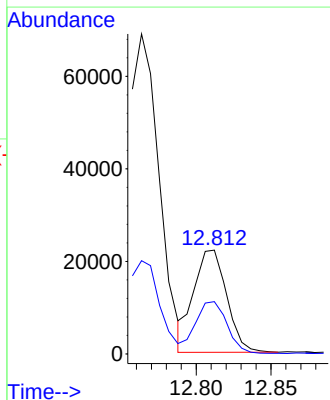
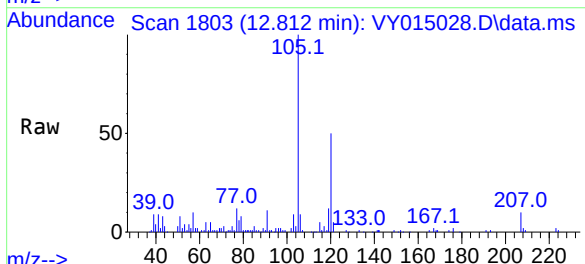
Instrument :
MSVOA_Y
ClientSampleId :

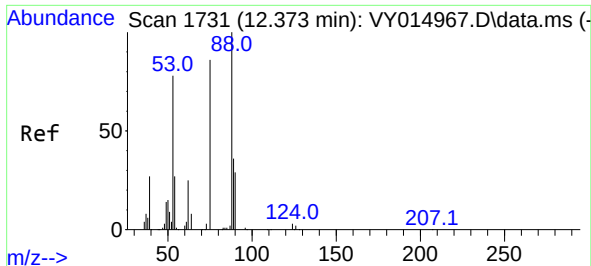
Tgt Ion:156 Resp: 5553
Ion Ratio Lower Upper
156 100
77 0.0 92.8 278.6#
158 0.3 48.4 145.3#



#80
1,3,5-Trimethylbenzene
Concen: 2.803 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

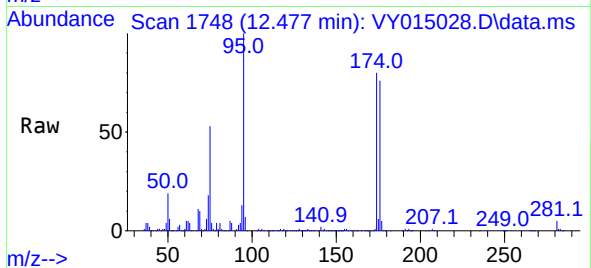
Tgt Ion:105 Resp: 34001
Ion Ratio Lower Upper
105 100
120 48.7 23.9 71.7



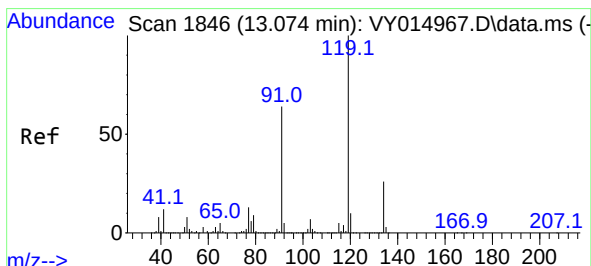
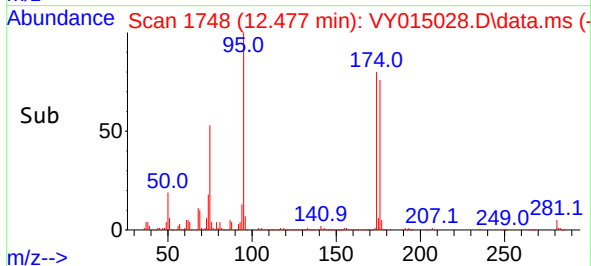
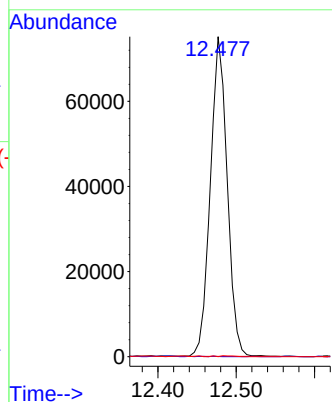


#81
trans-1,4-Dichloro-2-butene
Concen: 94.069 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Instrument :
MSVOA_Y
ClientSampleId :

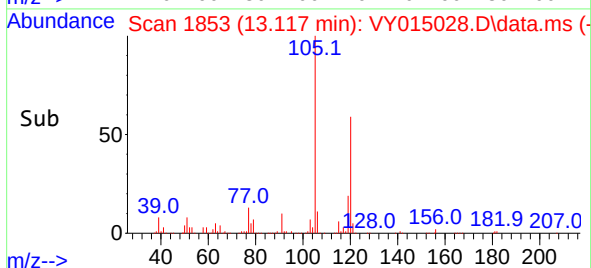
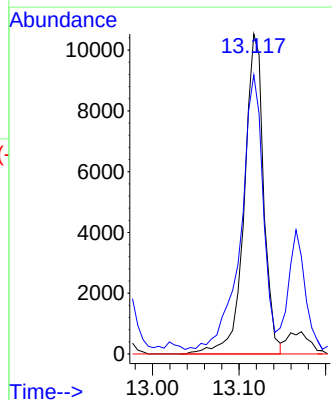
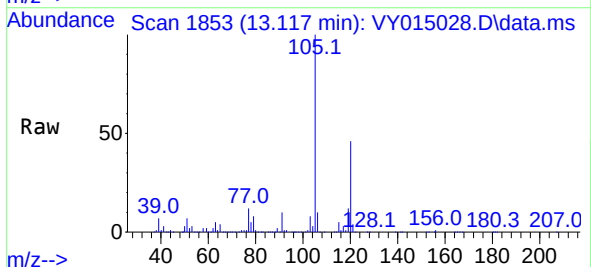


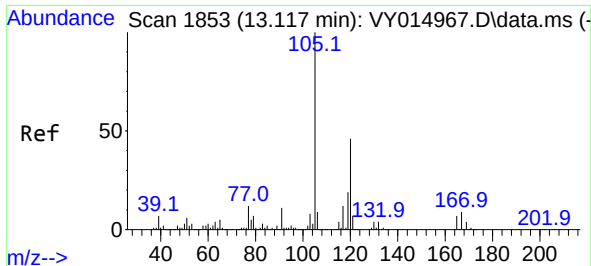
Tgt Ion: 75 Resp: 112034
Ion Ratio Lower Upper
75 100
53 0.1 77.8 116.8#
89 0.3 37.4 56.0#



#83
tert-Butylbenzene
Concen: 1.479 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.042 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion: 119 Resp: 16408
Ion Ratio Lower Upper
119 100
91 98.2 32.9 98.6
134 0.0 13.0 38.9#

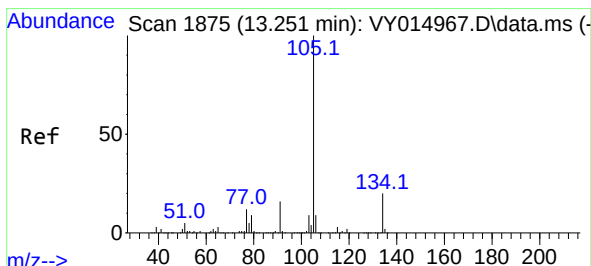
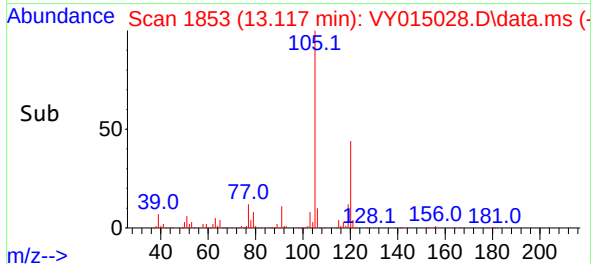
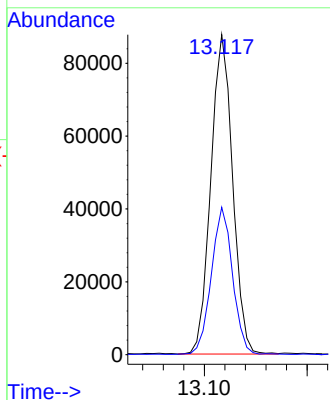
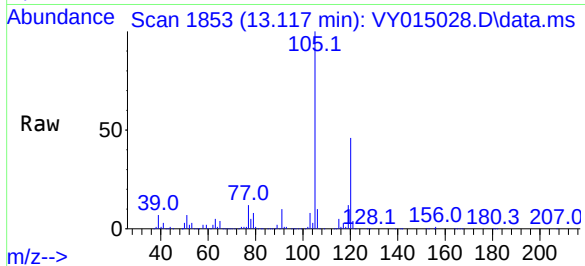




#84
1,2,4-Trimethylbenzene
Concen: 10.619 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

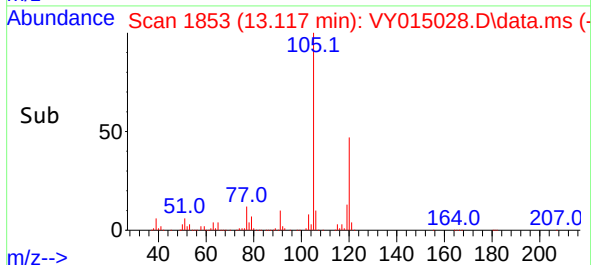
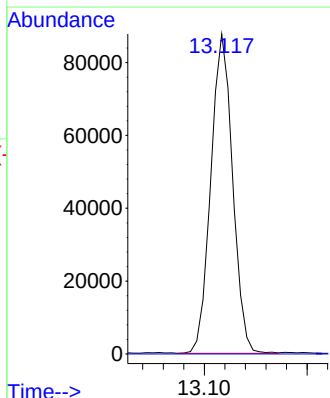
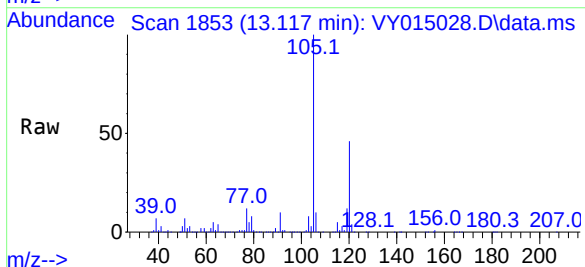
Instrument :
MSVOA_Y
ClientSampleId :

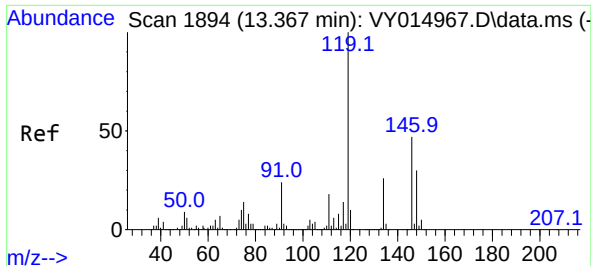
Tgt Ion:105 Resp: 129053
Ion Ratio Lower Upper
105 100
120 45.0 22.2 66.6



#85
sec-Butylbenzene
Concen: 7.924 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.134 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion:105 Resp: 129053
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.6#

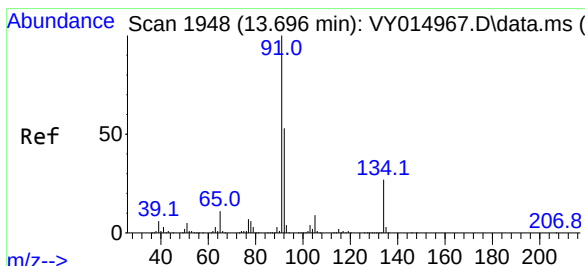
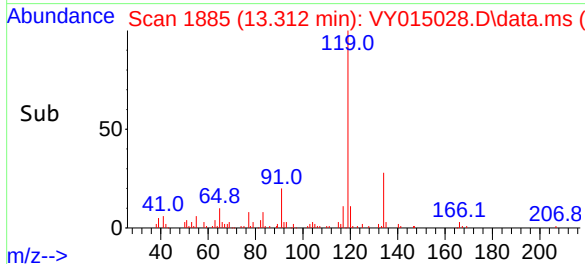
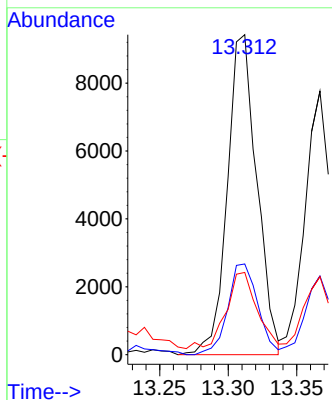
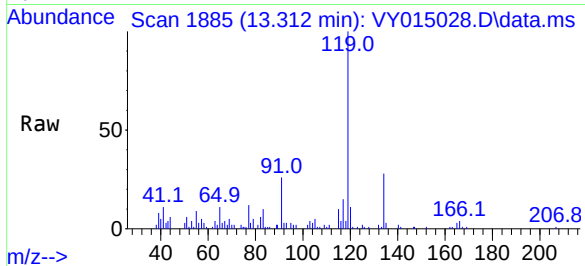




#86
p-Isopropyltoluene
Concen: 1.049 ug/l
RT: 13.312 min Scan# 119
Delta R.T. -0.055 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

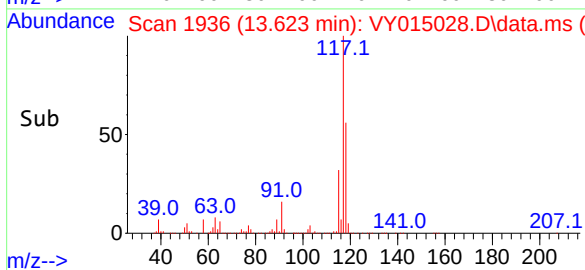
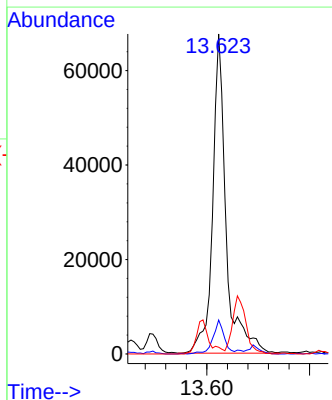
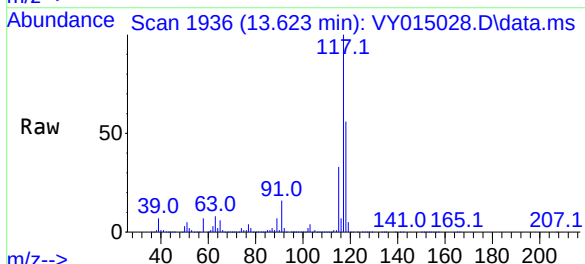
Instrument :
MSVOA_Y
ClientSampleId :

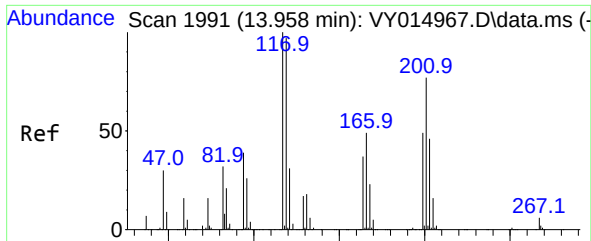
Tgt Ion:	119	Resp:	14137
Ion	Ratio	Lower	Upper
119	100		
134	28.8	13.3	39.8
91	24.9	12.4	37.4



#89
n-Butylbenzene
Concen: 9.680 ug/l
RT: 13.623 min Scan# 1936
Delta R.T. -0.073 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion:	91	Resp:	122608
Ion	Ratio	Lower	Upper
91	100		
92	9.0	25.4	76.0#
134	0.0	12.6	37.6#

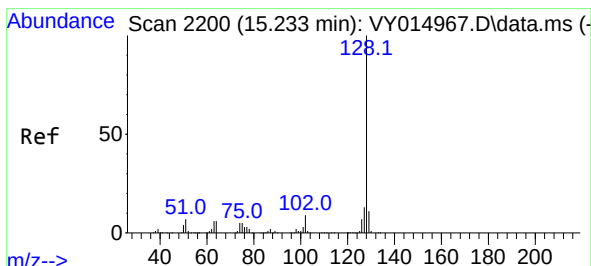
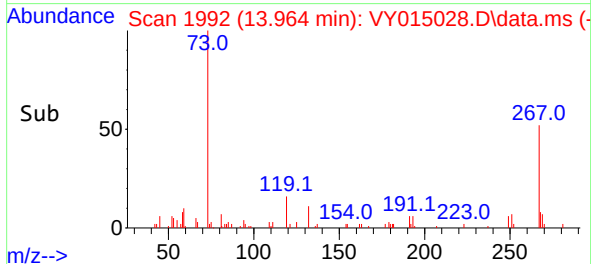
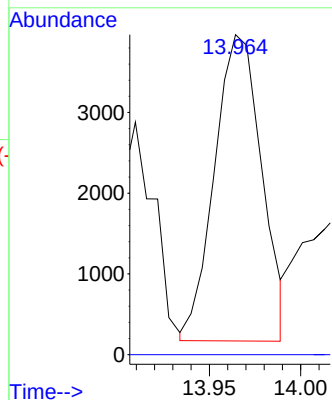
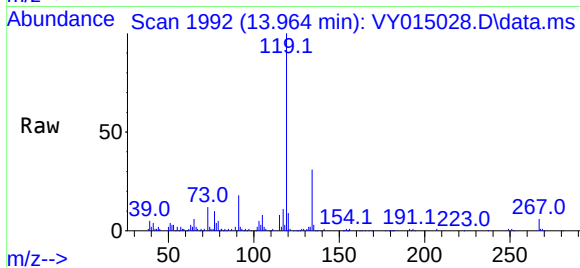




#90
Hexachloroethane
Concen: 2.603 ug/l
RT: 13.964 min Scan# 1991
Delta R.T. 0.006 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:117 Resp: 6814
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#95
Naphthalene
Concen: 233.779 ug/l
RT: 15.232 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY015028.D
Acq: 10 Aug 2023 15:28

Tgt Ion:128 Resp: 2270308
Ion Ratio Lower Upper
128 100
127 12.8 10.8 16.2
129 11.0 8.6 13.0

