

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD033121\
 Data File : VD068744.D
 Acq On : 31 Mar 2021 18:58
 Operator : VA/SY
 Sample : M1883-01
 Misc : 6.43G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 IEC-R2

Quant Time: Apr 01 00:46:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 20 02:00:55 2021
 Response via : Initial Calibration

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

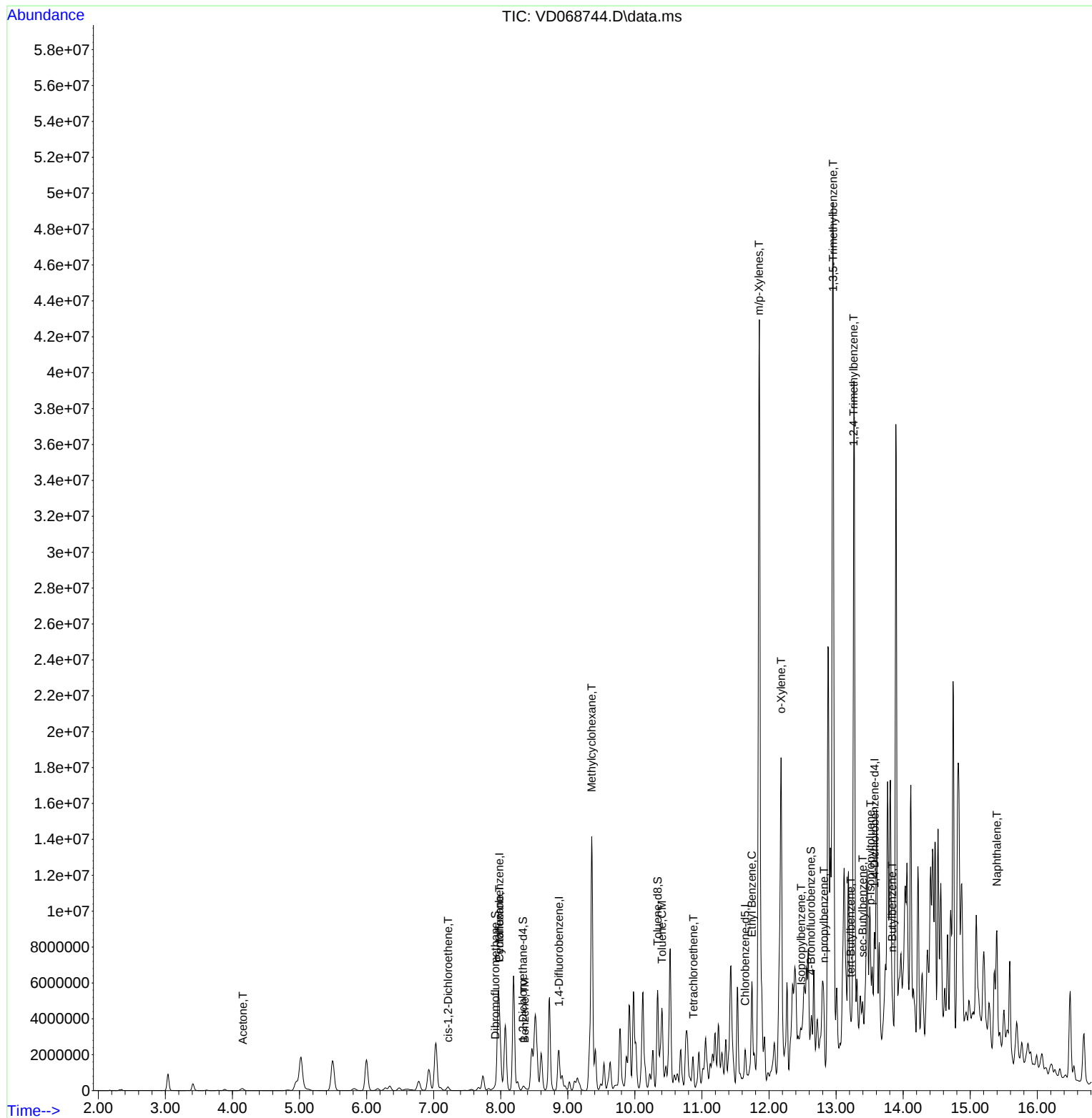
Internal Standards						
1) Pentafluorobenzene	7.979	168	324676	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	580016	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	567168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	248856	50.00	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	152371	46.54	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	93.08%		
35) Dibromofluoromethane	7.920	113	165433	45.84	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	91.68%		
50) Toluene-d8	10.338	98	955077	68.64	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	137.28%		
62) 4-Bromofluorobenzene	12.626	95	433159	96.02	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	192.04%#		
Target Compounds					Qvalue	
16) Acetone	4.156	43	99423	250.31	ug/l	# 85
27) cis-1,2-Dichloroethene	7.214	96	66016	16.60	ug/l	90
31) Cyclohexane	7.979	56	2171736	411.13	ug/l	# 82
39) Methylcyclohexane	9.356	83	5765408	901.66	ug/l	95
40) Benzene	8.356	78	77968	5.16	ug/l	99
52) Toluene	10.403	92	1928190	201.58	ug/l	98
64) Tetrachloroethene	10.873	164	72886	19.82	ug/l	95
67) Ethyl Benzene	11.744	91	3255256	167.17	ug/l	99
68) m/p-Xylenes	11.850	106	10364832	1366.20	ug/l	82
69) o-Xylene	12.179	106	4486279	638.06	ug/l	96
73) Isopropylbenzene	12.479	105	587659	34.37	ug/l	100
78) n-propylbenzene	12.820	91	2247389	110.39	ug/l	100
80) 1,3,5-Trimethylbenzene	12.955	105	9343785	675.71	ug/l	95
83) tert-Butylbenzene	13.220	119	95747	8.12	ug/l	87
84) 1,2,4-Trimethylbenzene	13.261	105	16826141	1177.90	ug/l	78
85) sec-Butylbenzene	13.396	105	624805	36.47	ug/l	# 59
86) p-Isopropyltoluene	13.514	119	967926	62.08	ug/l	98
89) n-Butylbenzene	13.838	91	841606	56.87	ug/l	# 58
95) Naphthalene	15.396	128	5692182	736.47	ug/l	98

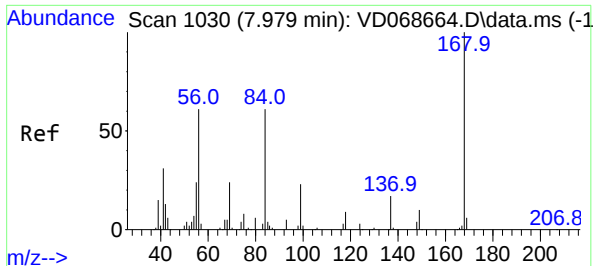
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

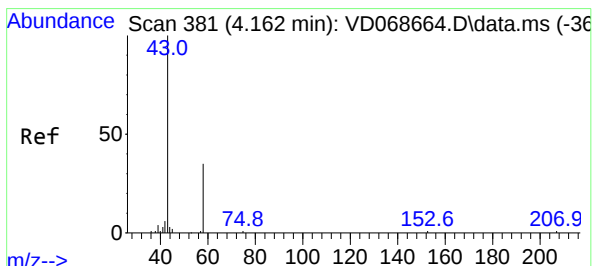
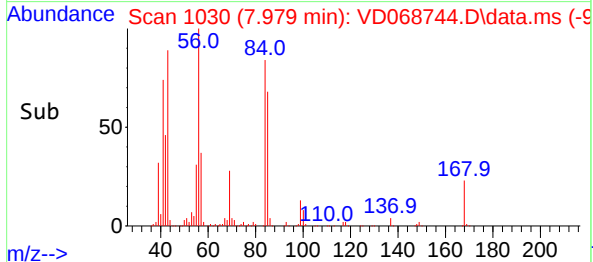
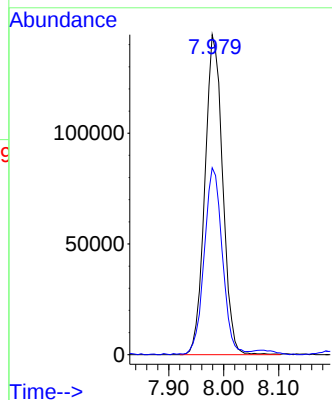
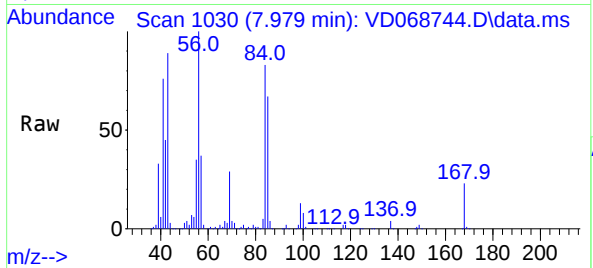




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

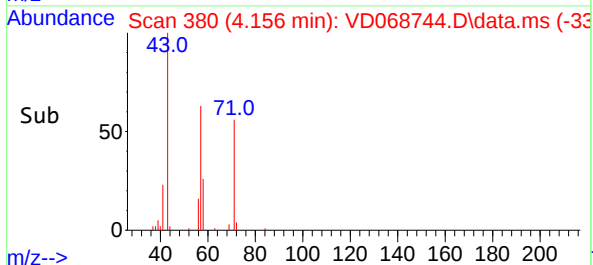
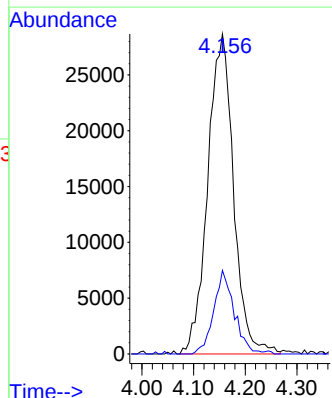
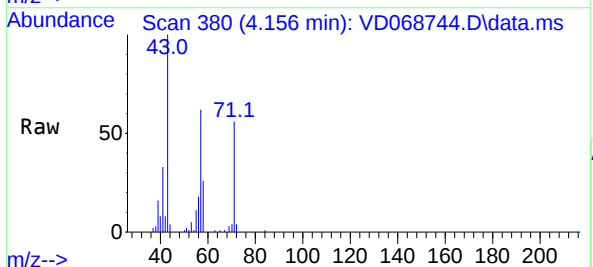
Instrument :
MSVOA_D
ClientSampled :
IEC-R2

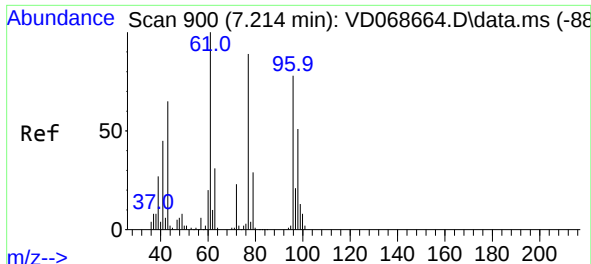
Tgt Ion:168 Resp: 324676
Ion Ratio Lower Upper
168 100
99 58.1 46.2 69.2



#16
Acetone
Concen: 250.31 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.006 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion: 43 Resp: 99423
Ion Ratio Lower Upper
43 100
58 26.1 28.0 42.0#





#27

cis-1,2-Dichloroethene

Concen: 16.60 ug/l

RT: 7.214 min Scan# 900

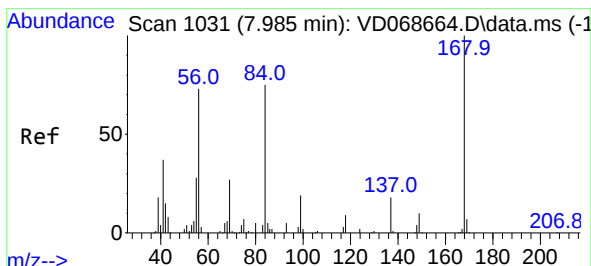
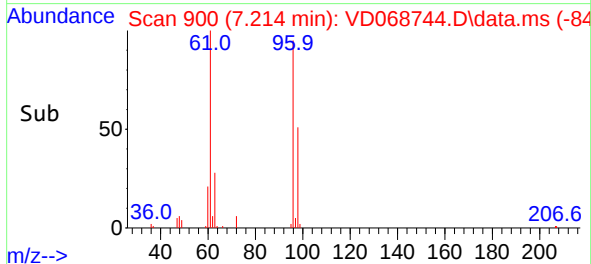
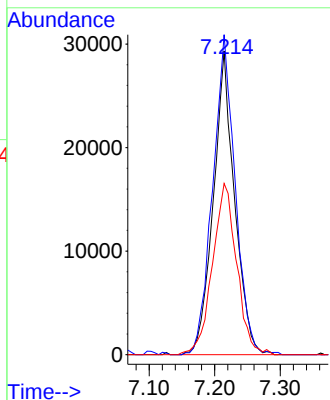
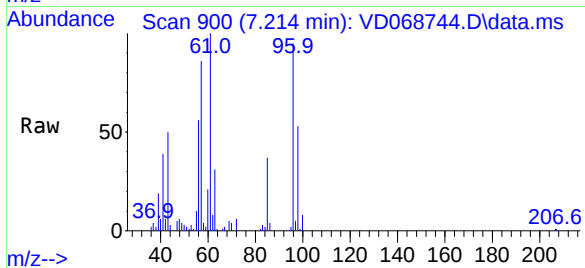
Delta R.T. 0.000 min

Lab File: VD068744.D

Acq: 31 Mar 2021 18:58

Tgt Ion:	96	Resp:	66016
Ion	Ratio	Lower	Upper
96	100		
61	111.3	0.0	258.8
98	64.2	0.0	128.4

Instrument :
MSVOA_D
ClientSampled :
IEC-R2



#31

Cyclohexane

Concen: 411.13 ug/l

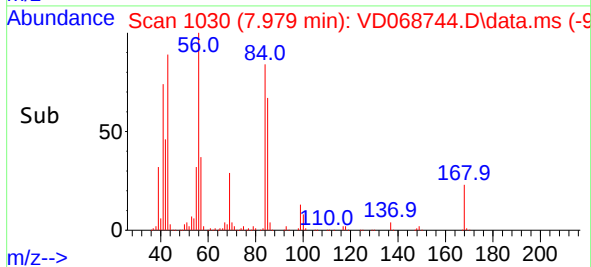
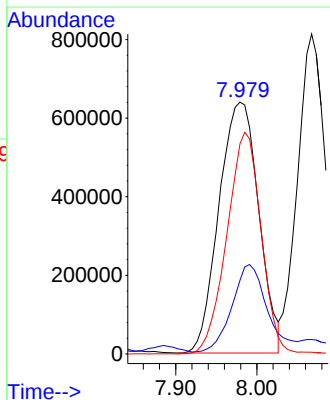
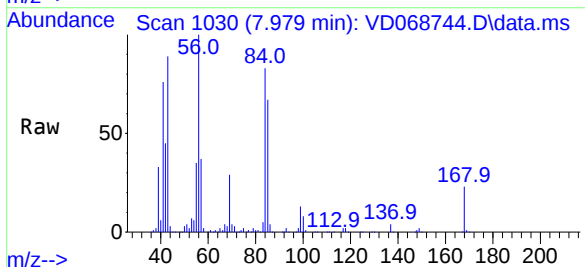
RT: 7.979 min Scan# 1030

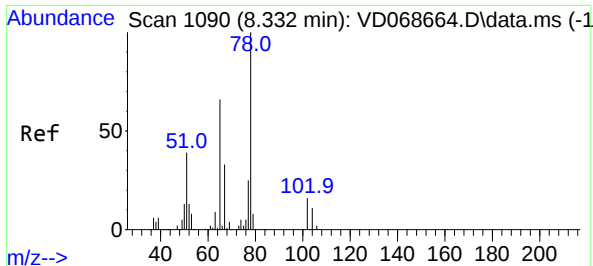
Delta R.T. -0.006 min

Lab File: VD068744.D

Acq: 31 Mar 2021 18:58

Tgt Ion:	56	Resp:	2171736
Ion	Ratio	Lower	Upper
56	100		
69	27.3	30.0	45.0#
84	83.7	82.0	123.0



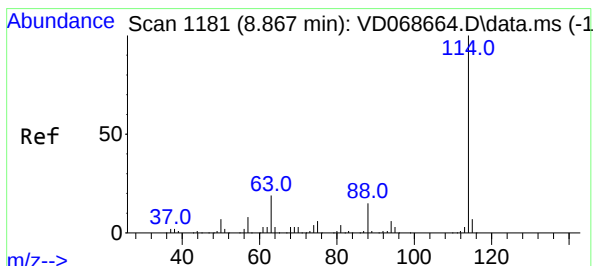
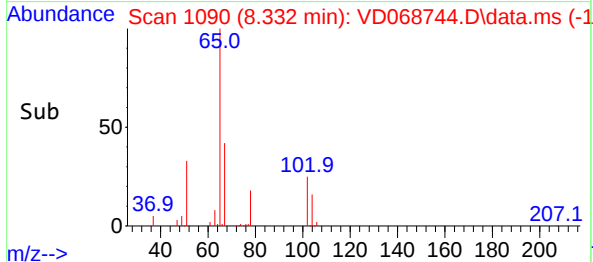
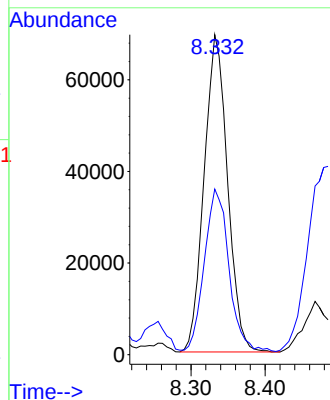
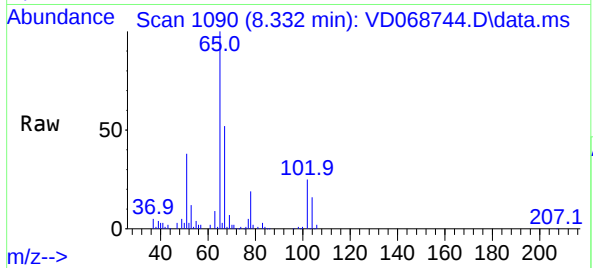


#33

1,2-Dichloroethane-d4
Concen: 46.54 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Instrument :
MSVOA_D
ClientSampled :
IEC-R2

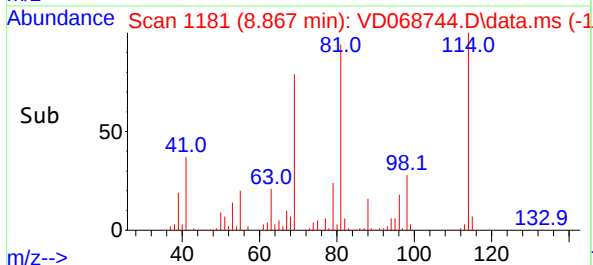
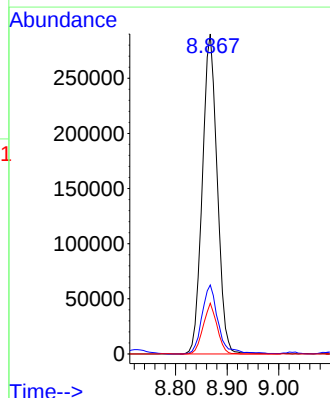
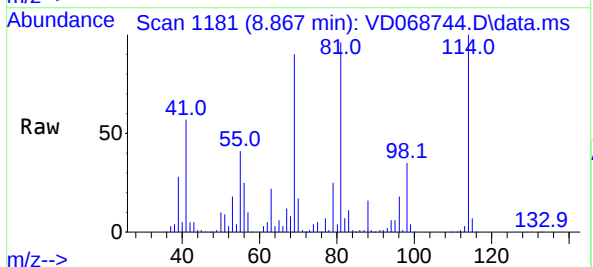
Tgt Ion: 65 Resp: 152371
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.0

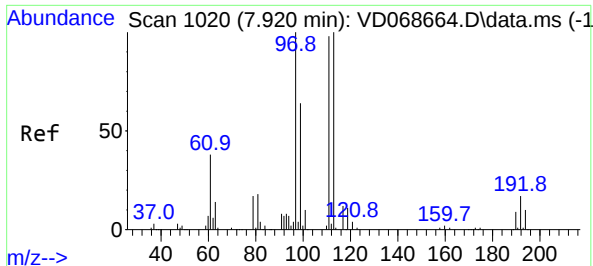


#34

1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion:114 Resp: 580016
Ion Ratio Lower Upper
114 100
63 21.6 0.0 38.2
88 15.9 0.0 29.4

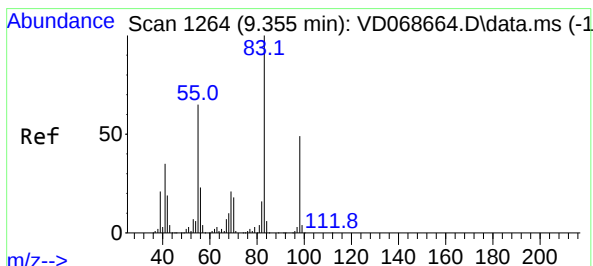
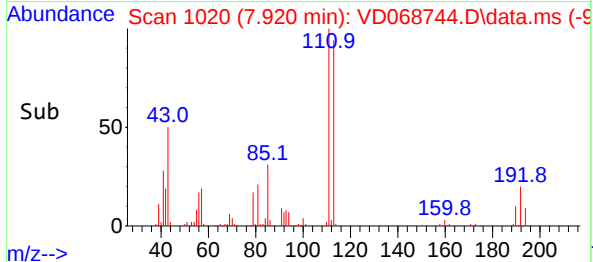
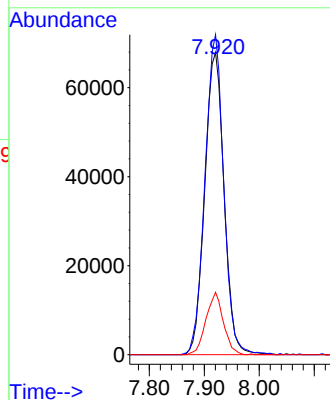
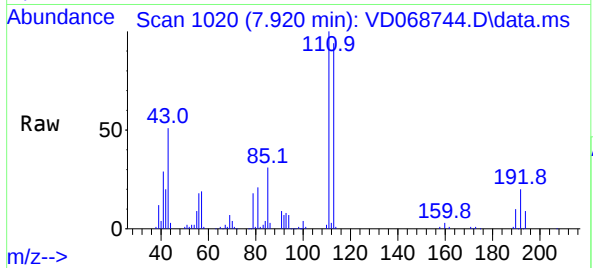




#35
Dibromofluoromethane
Concen: 45.84 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

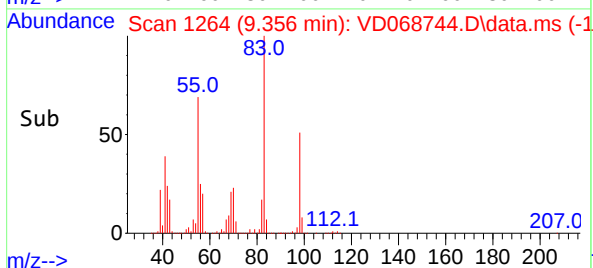
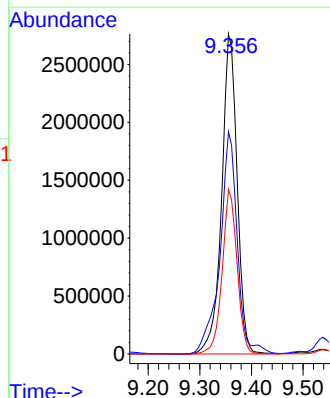
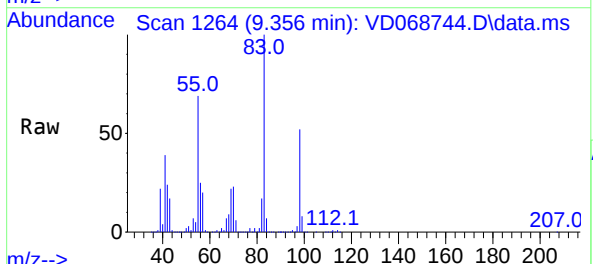
Instrument :
MSVOA_D
ClientSampled :
IEC-R2

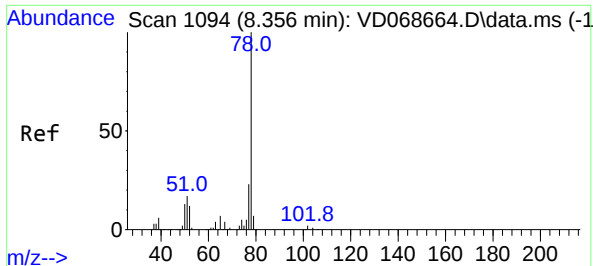
Tgt Ion:113 Resp: 165433
Ion Ratio Lower Upper
113 100
111 103.3 82.5 123.7
192 18.6 15.1 22.7



#39
Methylcyclohexane
Concen: 901.66 ug/l
RT: 9.356 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion: 83 Resp: 5765408
Ion Ratio Lower Upper
83 100
55 69.4 51.7 77.5
98 51.5 38.8 58.2

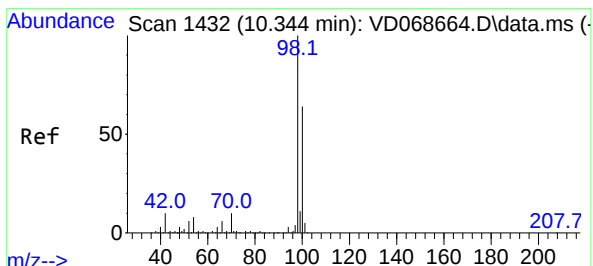
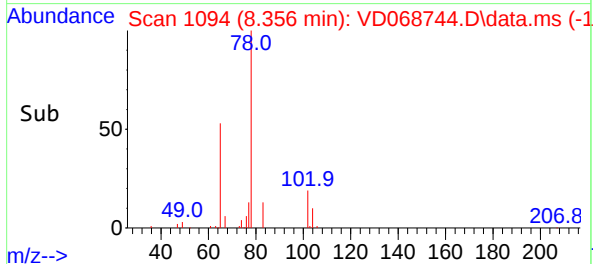
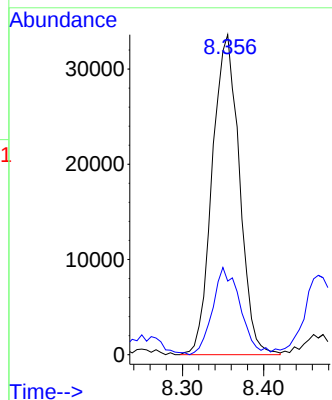
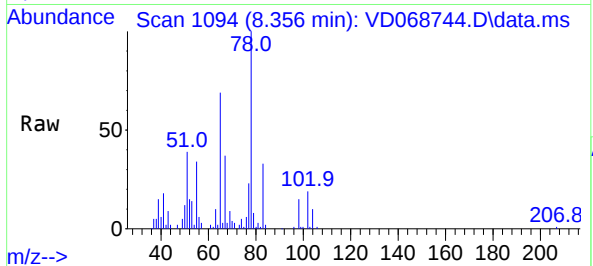




#40
Benzene
Concen: 5.16 ug/l
RT: 8.356 min Scan# 1094
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

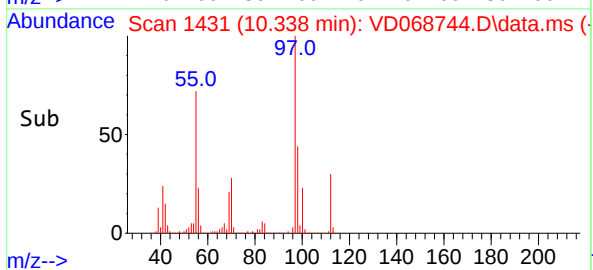
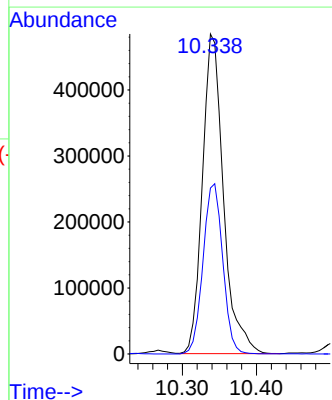
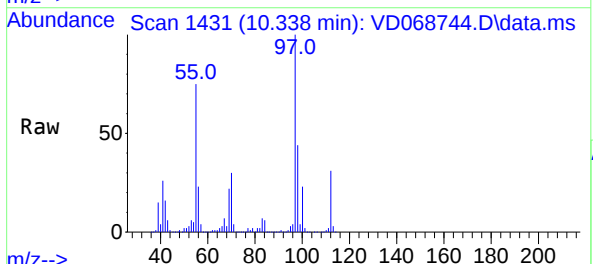
Instrument :
MSVOA_D
ClientSampled :
IEC-R2

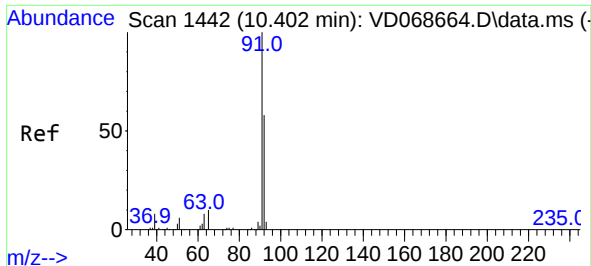
Tgt Ion: 78 Resp: 77968
Ion Ratio Lower Upper
78 100
77 22.3 18.2 27.2



#50
Toluene-d8
Concen: 68.64 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion: 98 Resp: 955077
Ion Ratio Lower Upper
98 100
100 49.8 51.8 77.6#

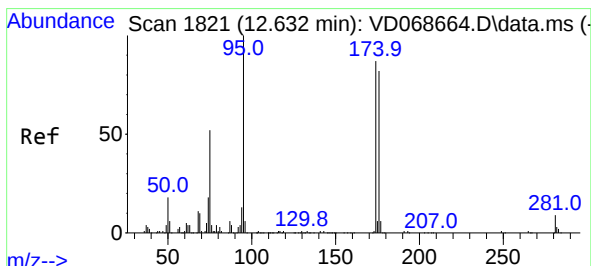
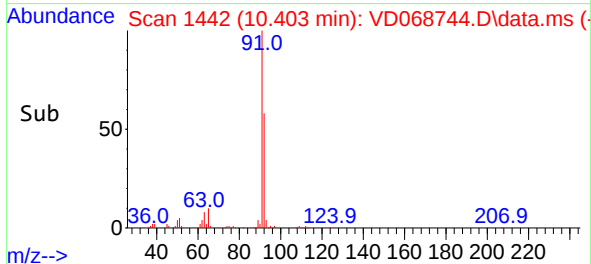
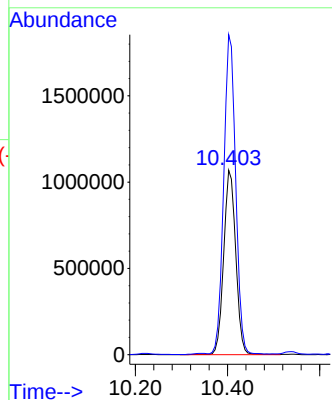
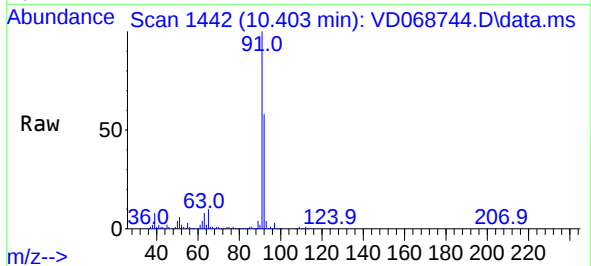




#52
Toluene
Concen: 201.58 ug/l
RT: 10.403 min Scan# 1442
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

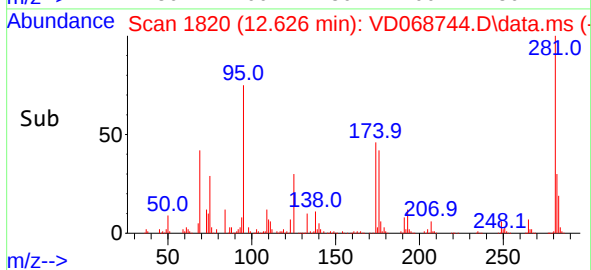
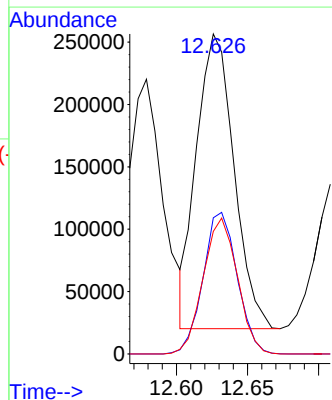
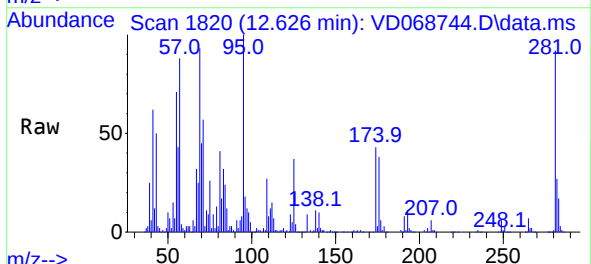
Instrument :
MSVOA_D
ClientSampled :
IEC-R2

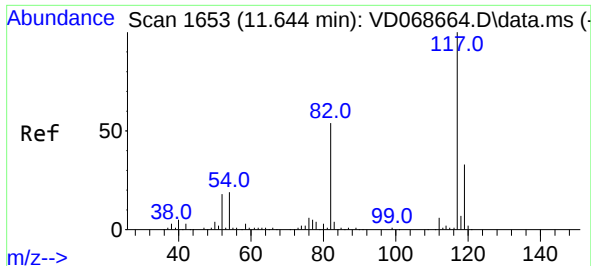
Tgt Ion: 92 Resp: 1928190
Ion Ratio Lower Upper
92 100
91 171.4 139.1 208.7



#62
4-Bromofluorobenzene
Concen: 96.02 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.006 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion: 95 Resp: 433159
Ion Ratio Lower Upper
95 100
174 43.8 0.0 168.0
176 42.1 0.0 160.2

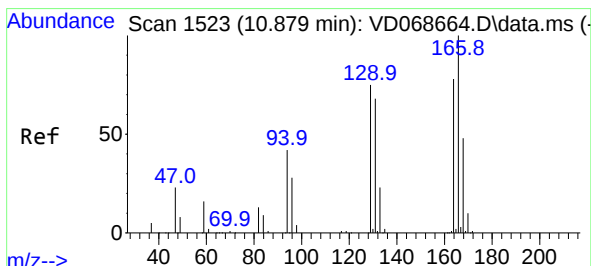
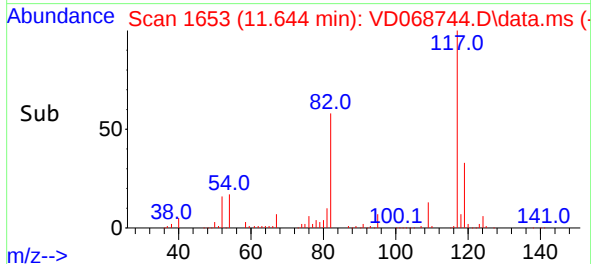
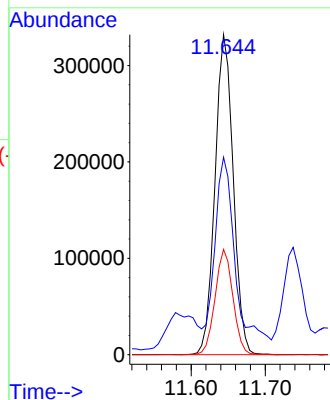
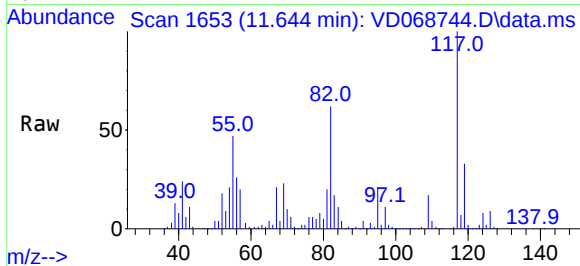




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

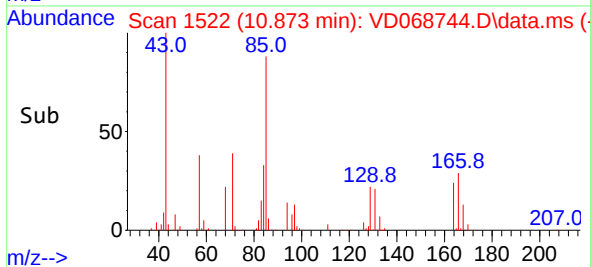
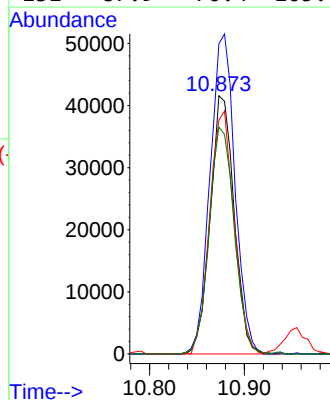
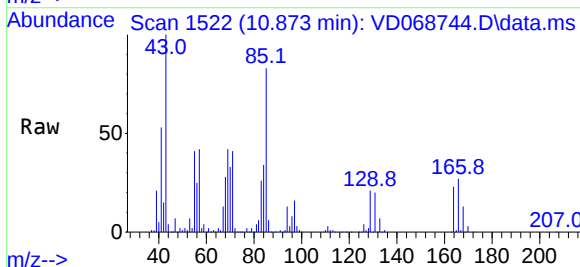
Instrument :
MSVOA_D
ClientSampled :
IEC-R2

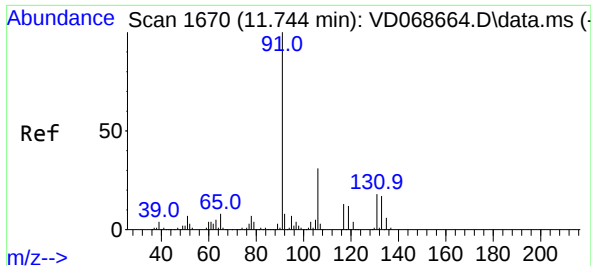
Tgt Ion:	117	Resp:	567168
Ion	Ratio	Lower	Upper
117	100		
82	49.3	43.5	65.3
119	32.9	26.7	40.1



#64
Tetrachloroethene
Concen: 19.82 ug/l
RT: 10.873 min Scan# 1522
Delta R.T. -0.006 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion:	164	Resp:	72886
Ion	Ratio	Lower	Upper
164	100		
166	120.1	103.0	154.6
129	90.5	77.4	116.0
131	87.9	70.4	105.6

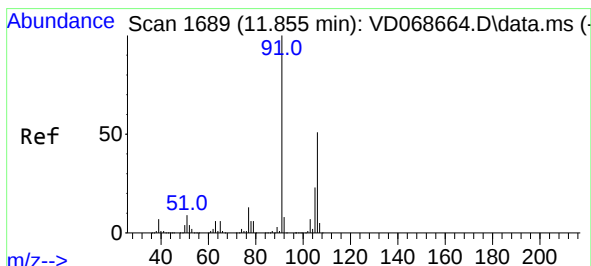
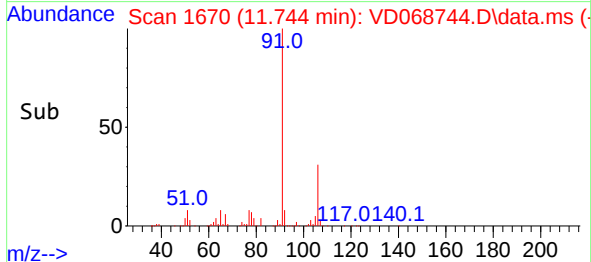
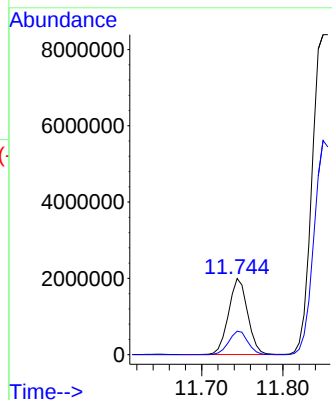
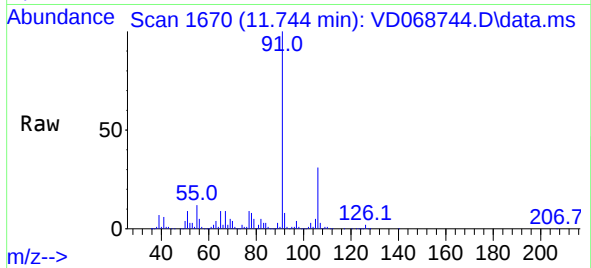




#67
Ethyl Benzene
Concen: 167.17 ug/l
RT: 11.744 min Scan# 1670
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

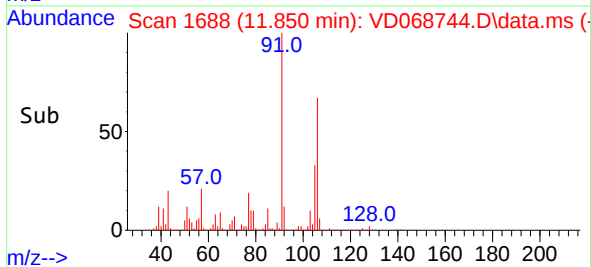
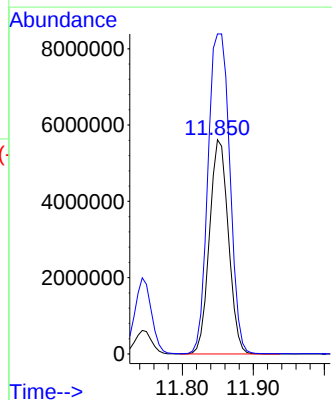
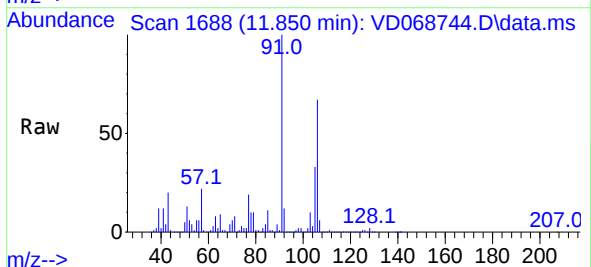
Instrument :
MSVOA_D
ClientSampled :
IEC-R2

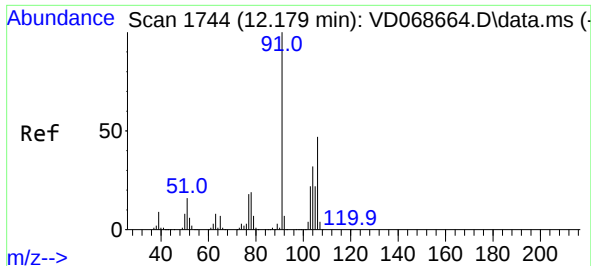
Tgt Ion: 91 Resp: 3255256
Ion Ratio Lower Upper
91 100
106 30.9 25.1 37.7



#68
m/p-Xylenes
Concen: 1366.20 ug/l
RT: 11.850 min Scan# 1688
Delta R.T. -0.006 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion:106 Resp:10364832
Ion Ratio Lower Upper
106 100
91 171.7 158.6 238.0

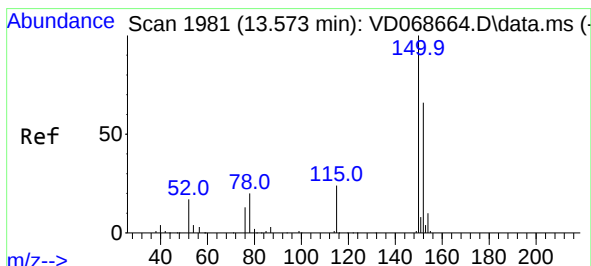
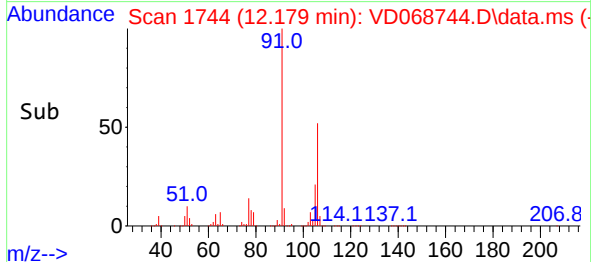
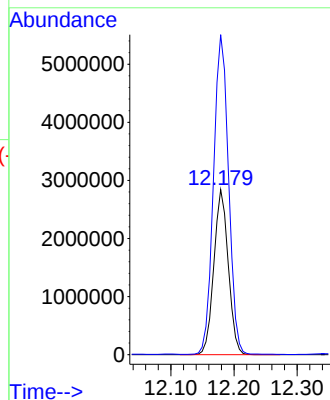
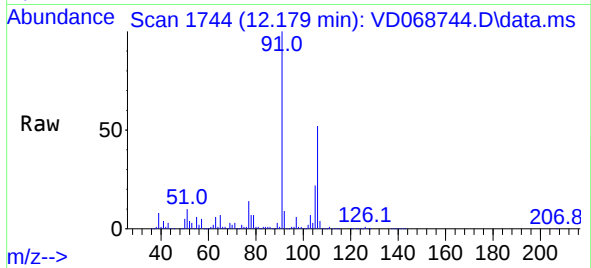




#69
o-Xylene
Concen: 638.06 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

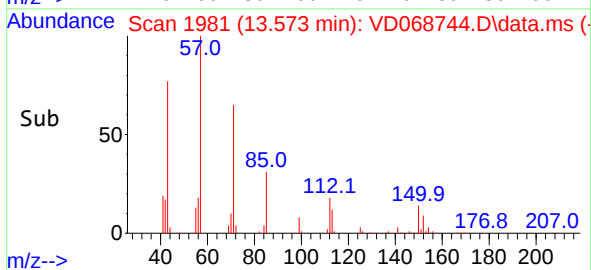
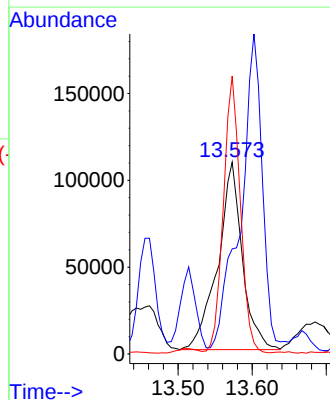
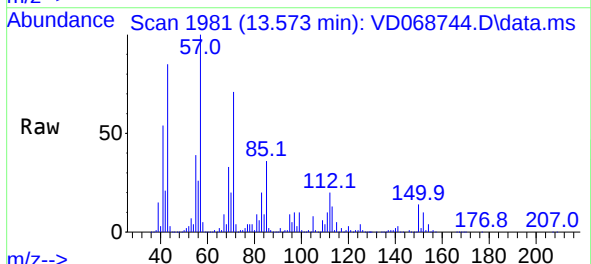
Instrument :
MSVOA_D
ClientSampled :
IEC-R2

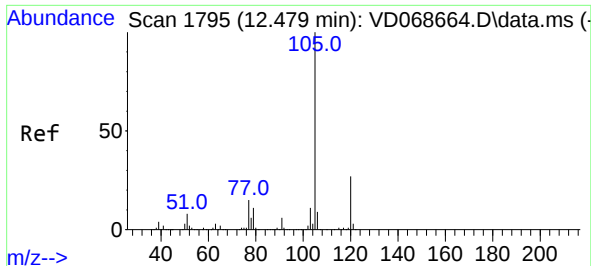
Tgt Ion:106 Resp: 4486279
Ion Ratio Lower Upper
106 100
91 203.3 105.0 315.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion:152 Resp: 248856
Ion Ratio Lower Upper
152 100
115 0.0 29.3 87.8#
150 101.7 0.0 347.6

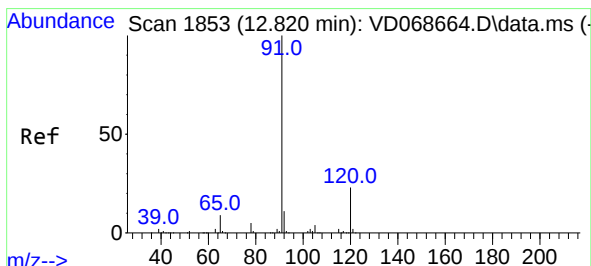
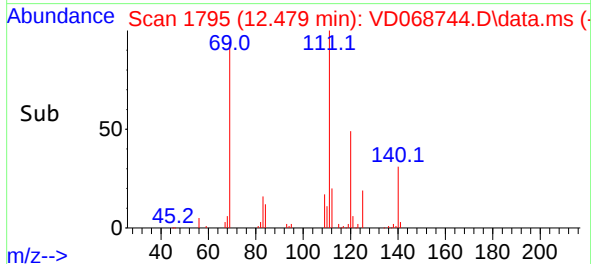
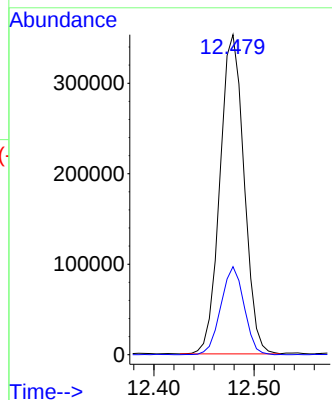
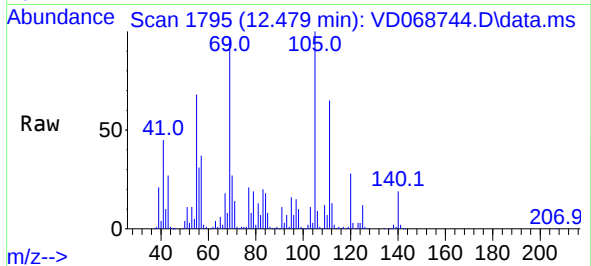




#73
Isopropylbenzene
Concen: 34.37 ug/l
RT: 12.479 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

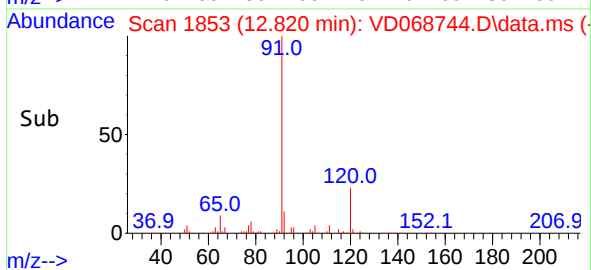
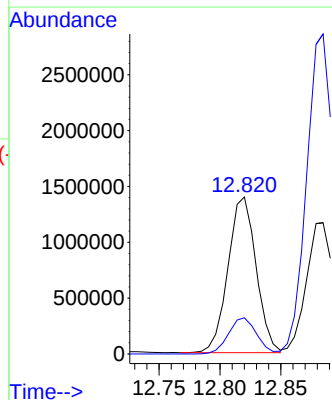
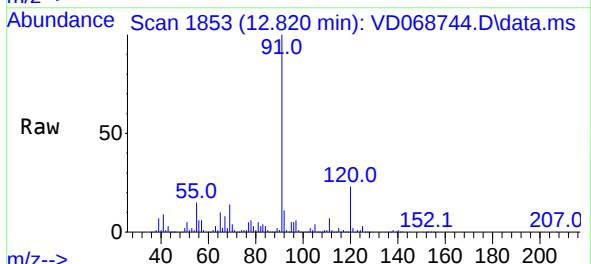
Instrument :
MSVOA_D
ClientSampled :
IEC-R2

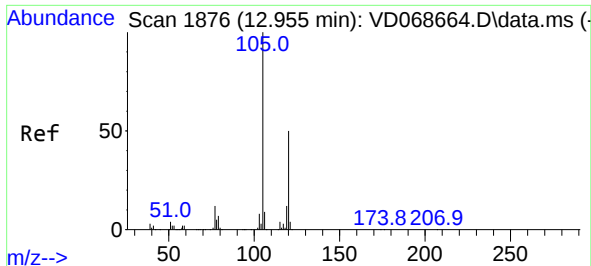
Tgt Ion:105 Resp: 587659
Ion Ratio Lower Upper
105 100
120 26.6 13.4 40.2



#78
n-propylbenzene
Concen: 110.39 ug/l
RT: 12.820 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion: 91 Resp: 2247389
Ion Ratio Lower Upper
91 100
120 23.0 11.4 34.2

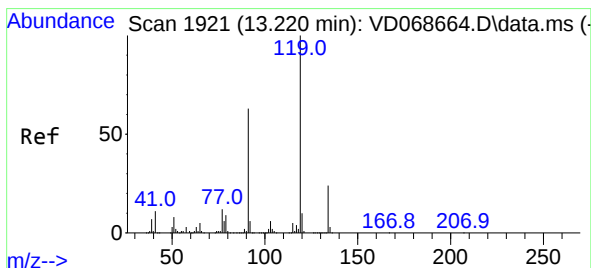
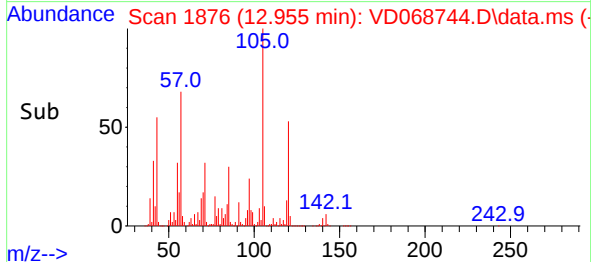
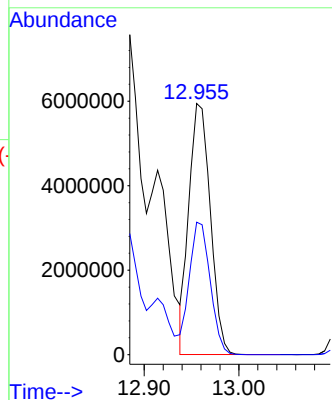
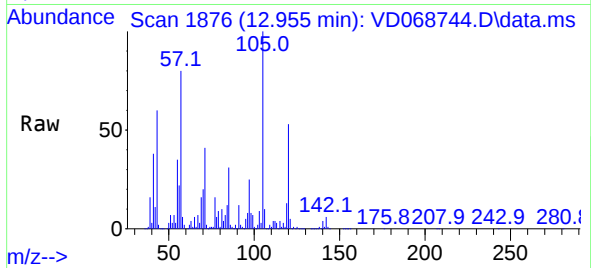




#80
1,3,5-Trimethylbenzene
Concen: 675.71 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

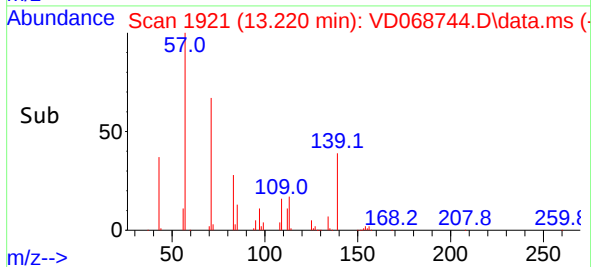
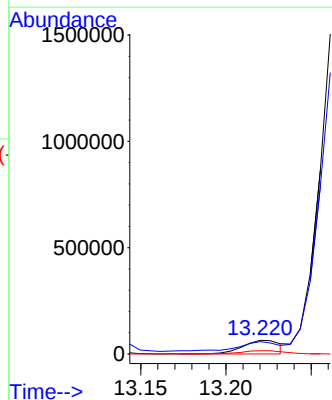
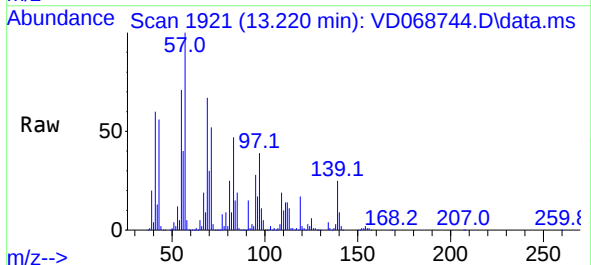
Instrument :
MSVOA_D
ClientSampleId :
IEC-R2

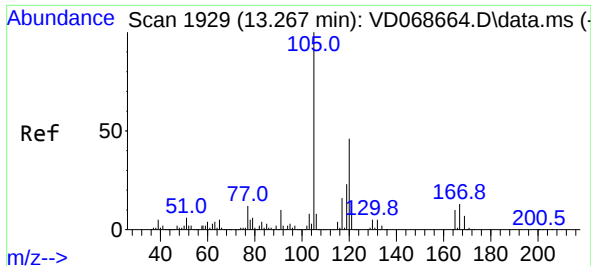
Tgt Ion:105 Resp: 9343785
Ion Ratio Lower Upper
105 100
120 53.0 24.9 74.7



#83
tert-Butylbenzene
Concen: 8.12 ug/l
RT: 13.220 min Scan# 1921
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion:119 Resp: 95747
Ion Ratio Lower Upper
119 100
91 76.8 31.6 95.0
134 28.6 13.4 40.2

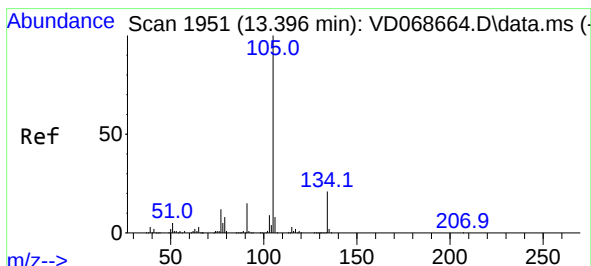
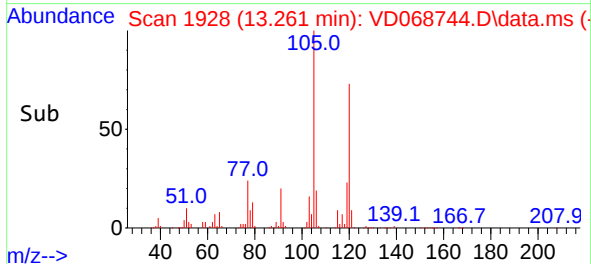
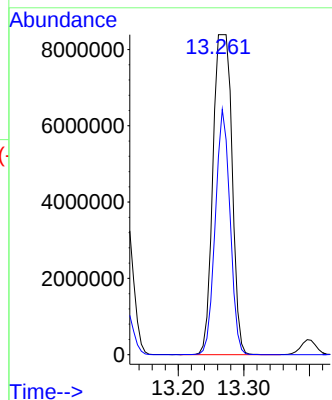
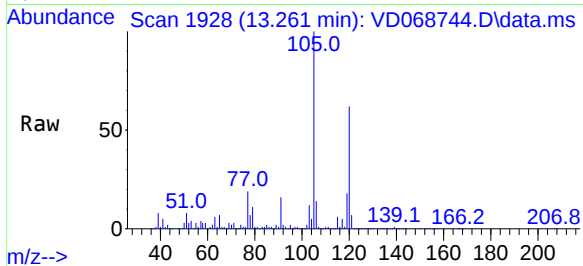




#84
1,2,4-Trimethylbenzene
Concen: 1177.90 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. -0.006 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

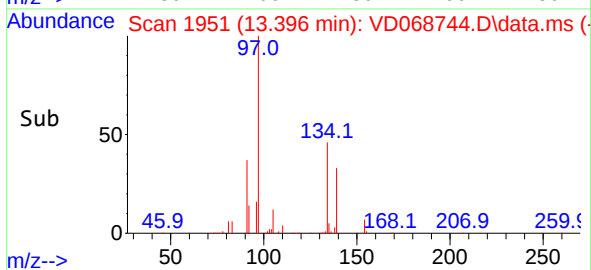
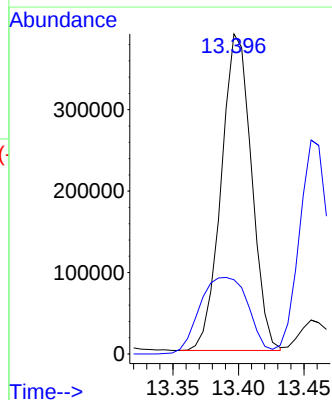
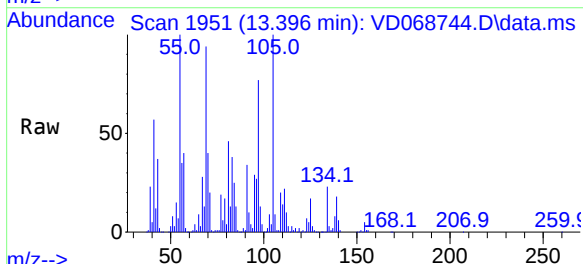
Instrument :
MSVOA_D
ClientSampleId :
IEC-R2

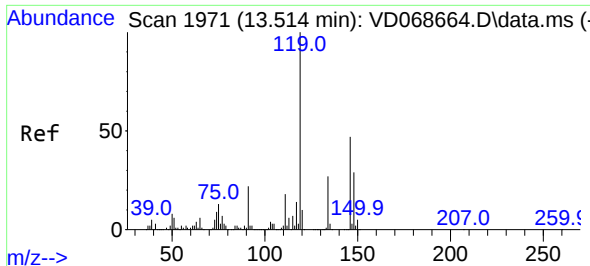
Tgt Ion:105 Resp:16826141
Ion Ratio Lower Upper
105 100
120 59.5 22.6 67.7



#85
sec-Butylbenzene
Concen: 36.47 ug/l
RT: 13.396 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion:105 Resp: 624805
Ion Ratio Lower Upper
105 100
134 38.9 10.0 29.8#

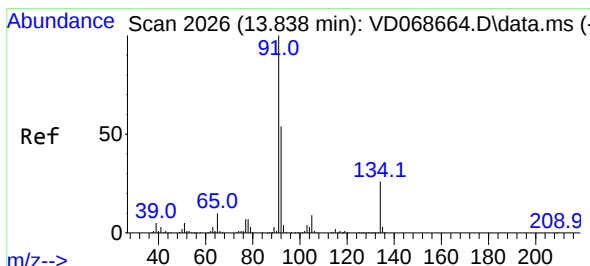
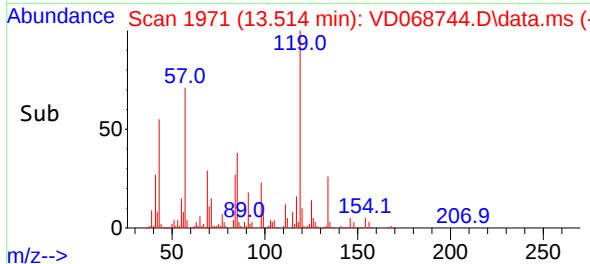
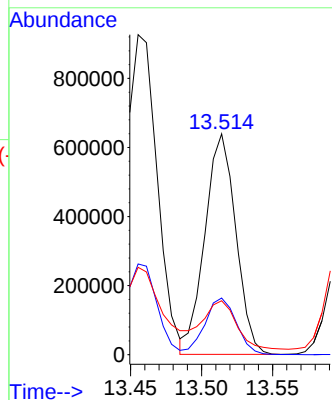
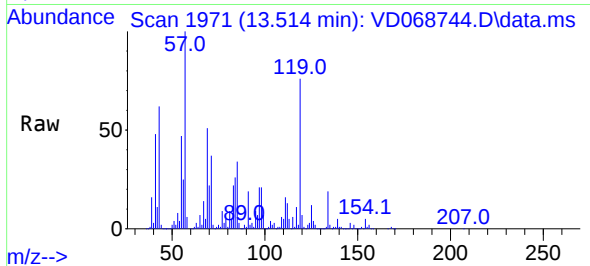




#86
p-Isopropyltoluene
Concen: 62.08 ug/l
RT: 13.514 min Scan# 1971
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

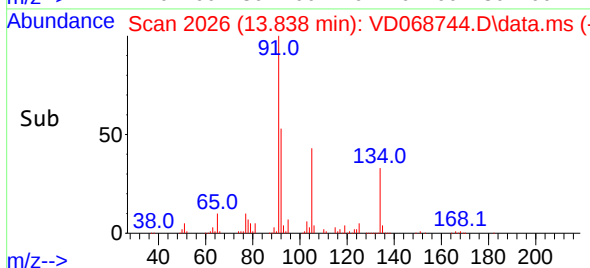
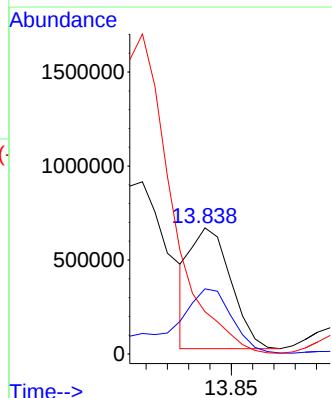
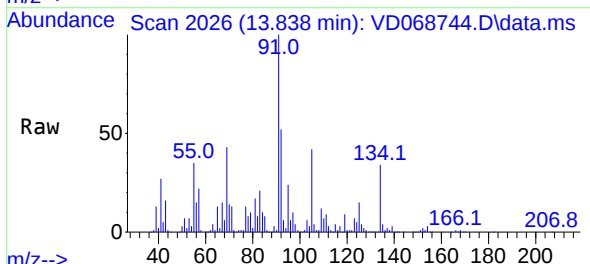
Instrument :
MSVOA_D
ClientSampled :
IEC-R2

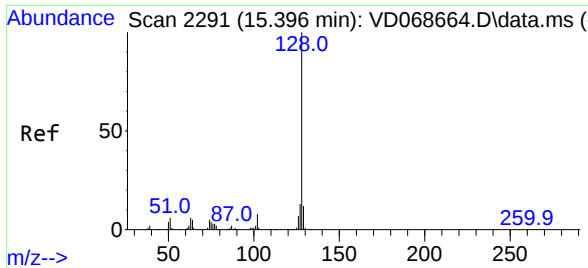
Tgt Ion:119 Resp: 967926
Ion Ratio Lower Upper
119 100
134 26.3 13.3 39.9
91 23.5 11.1 33.1



#89
n-Butylbenzene
Concen: 56.87 ug/l
RT: 13.838 min Scan# 2026
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Tgt Ion: 91 Resp: 841606
Ion Ratio Lower Upper
91 100
92 80.3 26.7 80.1#
134 0.0 12.9 38.6#





#95
Naphthalene
Concen: 736.47 ug/l
RT: 15.396 min Scan# 2291
Delta R.T. 0.000 min
Lab File: VD068744.D
Acq: 31 Mar 2021 18:58

Instrument :
MSVOA_D
ClientSampleId :
IEC-R2

Tgt Ion:128 Resp: 5692182
Ion Ratio Lower Upper
128 100
127 13.9 10.2 15.4
129 11.0 8.9 13.3

