

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062511.D
 Acq On : 22 May 2019 19:02
 Operator : VA/AP
 Sample : K2996-10
 Misc : 5.45u/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-9(4.5-5.0)

Manual Integrations
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 5/23/2019 11:21:48 AM

Quant Time: May 23 04:38:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	209034m	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.28	114	263465	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.44	117	180242	50.00	ug/l	0.07
72) 1,4-Dichlorobenzene-d4	14.52	152	21532	50.00	ug/l	-0.01

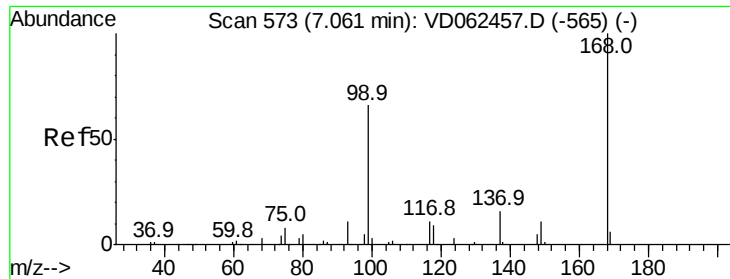
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.51	65	30362m	13.57	ug/l	0.05
Spiked Amount	50.000		Recovery	=	27.14%	
35) Dibromofluoromethane	6.94	113	175453	73.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	147.64%	
50) Toluene-d8	10.66	98	995378m	191.37	ug/l	0.24
Spiked Amount	50.000		Recovery	=	382.74%	
62) 4-Bromofluorobenzene	13.59	95	641423m	281.91	ug/l	0.02
Spiked Amount	50.000		Recovery	=	563.82%	

Target Compounds

						Qvalue
3) Chloromethane	1.84	50	45135m	31.169	ug/l	
17) Carbon Disulfide	3.36	76	60948	13.000	ug/l	99
31) Cyclohexane	7.08	56	10340878m	4894.598	ug/l	
39) Methylcyclohexane	9.04	83	37073080m	17844.230	ug/l	
40) Benzene	7.52	78	3265935m	661.004	ug/l	
52) Toluene	10.69	92	1374029m	406.224	ug/l	
67) Ethyl Benzene	12.65	91	36222544	6067.235	ug/l #	74
68) m/p-Xylenes	12.78	106	5921510m	2763.105	ug/l	
69) o-Xylene	13.10	106	467281	231.094	ug/l	77
73) Isopropylbenzene	13.46	105	20157206	14851.578	ug/l	79
78) n-propylbenzene	13.80	91	17433522	11089.036	ug/l #	70
80) 1,3,5-Trimethylbenzene	13.95	105	4269106	3632.760	ug/l	98
83) tert-Butylbenzene	14.20	119	355951	273.065	ug/l	89
84) 1,2,4-Trimethylbenzene	14.24	105	1275717	1059.418	ug/l	96
85) sec-Butylbenzene	14.37	105	1734672	1276.225	ug/l	98
86) p-Isopropyltoluene	14.49	119	620120	503.442	ug/l	91
89) n-Butylbenzene	14.80	91	984628m	828.286	ug/l	
95) Naphthalene	16.11	128	266045	427.701	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l m

RT: 7.07 min Scan# 574

Delta R.T. 0.01 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

ClientSampleId :

P-9(4.5-5.0)

Tot Ion:168 Resp: 209034

Ion Ratio Lower Upper

168 100

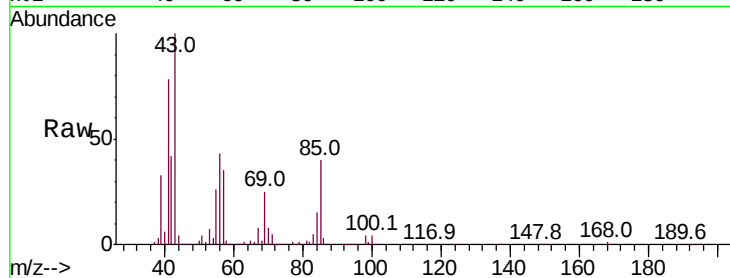
99 142.5 46.5 69.7#

Manual Integrations

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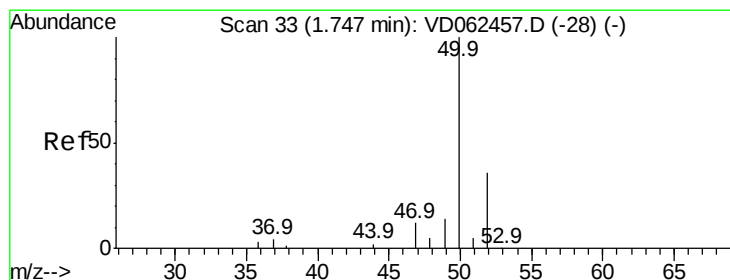
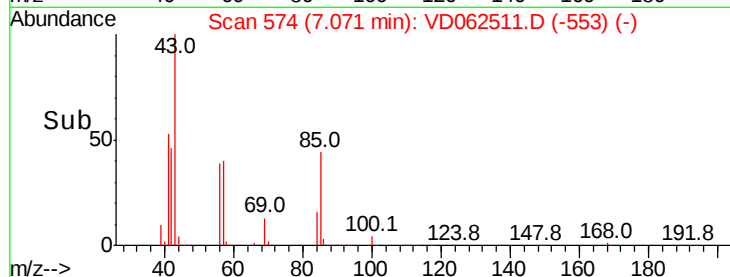
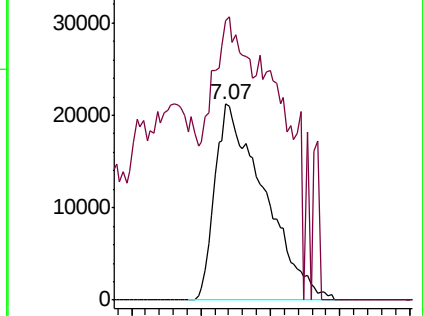
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 31.169 ug/l m

RT: 1.84 min Scan# 42

Delta R.T. 0.09 min

Lab File: VD062511.D

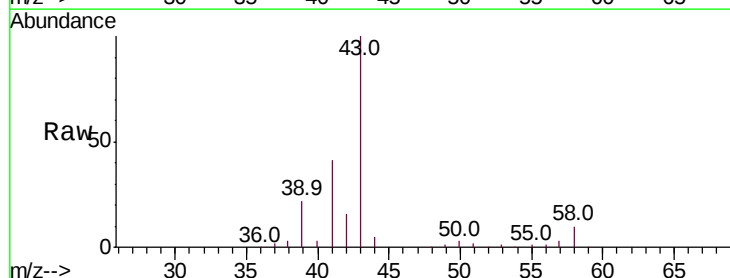
Acq: 22 May 2019 19:02

Tgt Ion: 50 Resp: 45135

Ion Ratio Lower Upper

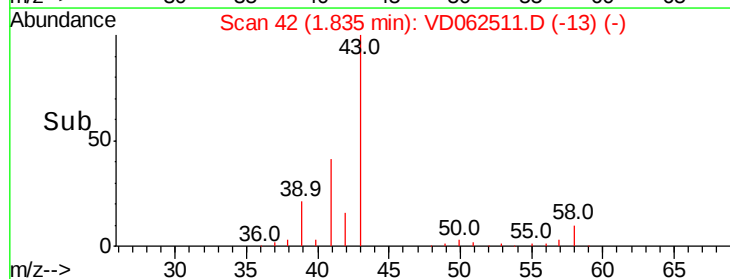
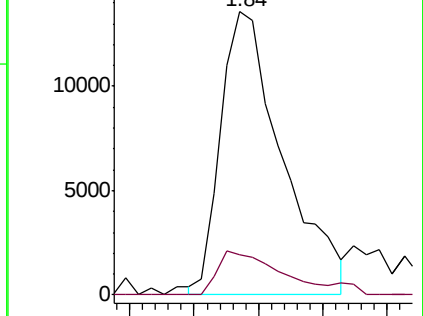
50 100

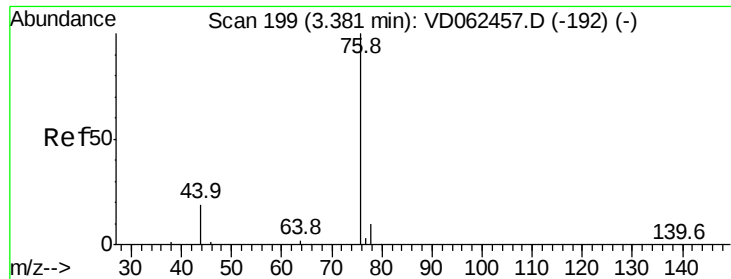
52 14.3 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





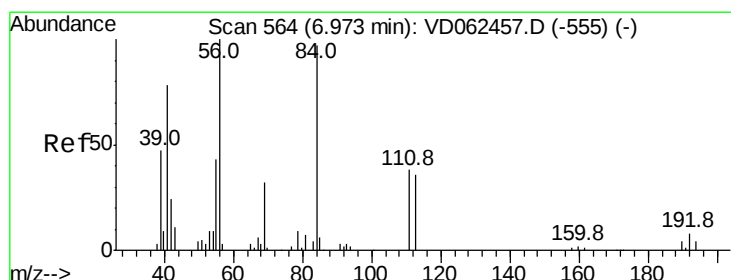
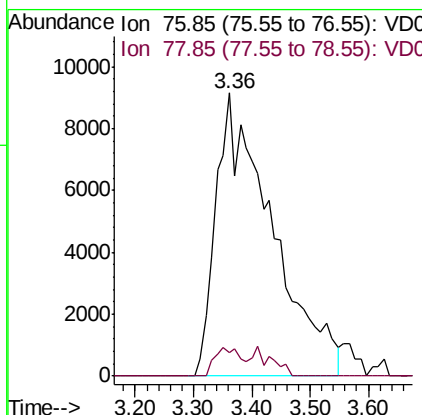
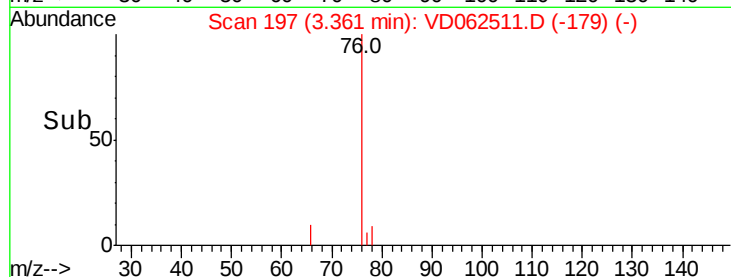
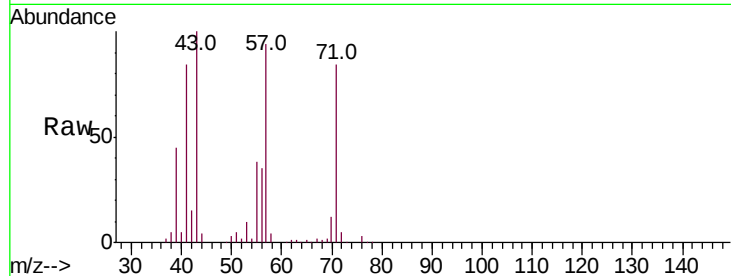
#17
Carbon Disulfide
Concen: 13.000 ug/l
RT: 3.36 min Scan# 197
Delta R.T. -0.02 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Instrument :
MSVOA_D
ClientSampled :
P-9(4.5-5.0)

Tot Ion: 76 Resp: 60948
Ion Ratio Lower Upper
76 100
78 8.5 7.2 10.8

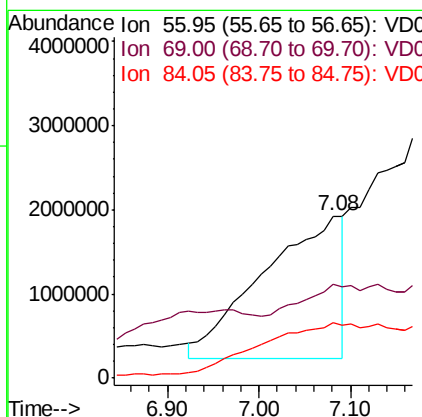
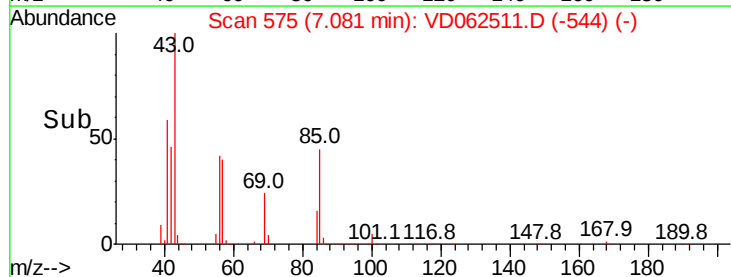
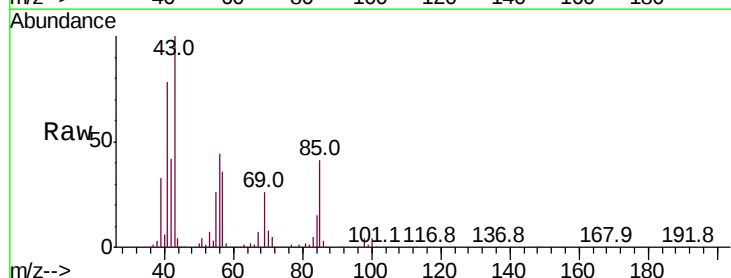
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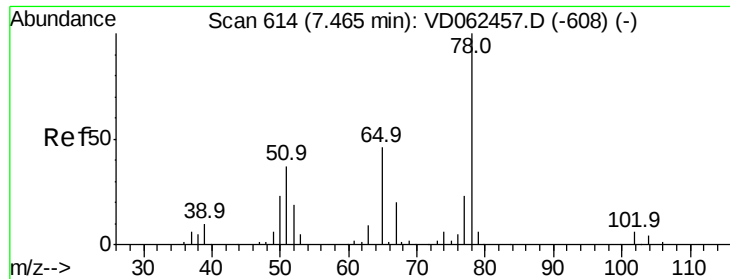
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#31
Cyclohexane
Concen: 4894.598 ug/l m
RT: 7.08 min Scan# 575
Delta R.T. 0.11 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Tgt Ion: 56 Resp:10340878
Ion Ratio Lower Upper
56 100
69 58.0 25.8 38.6#
84 34.1 72.2 108.4#





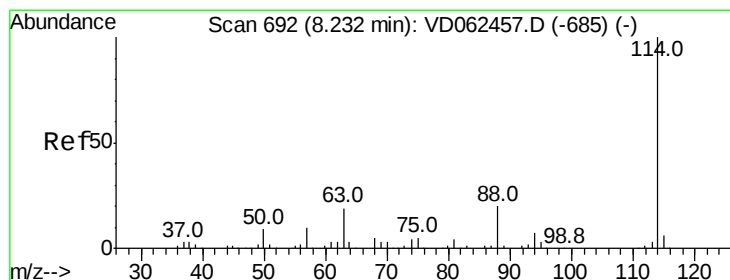
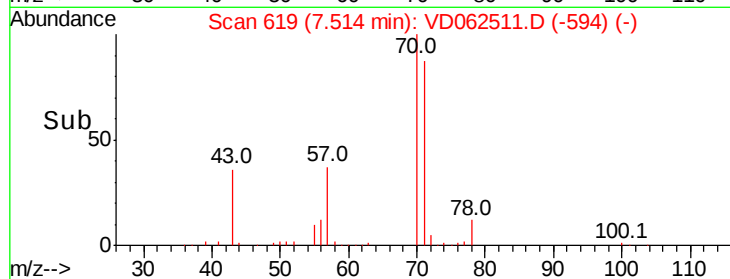
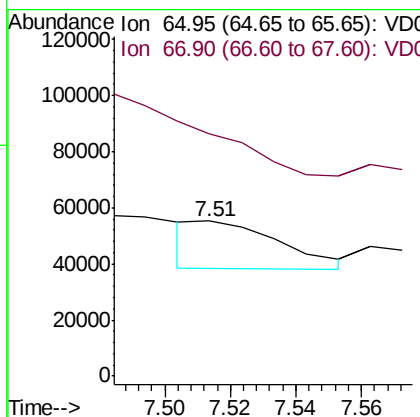
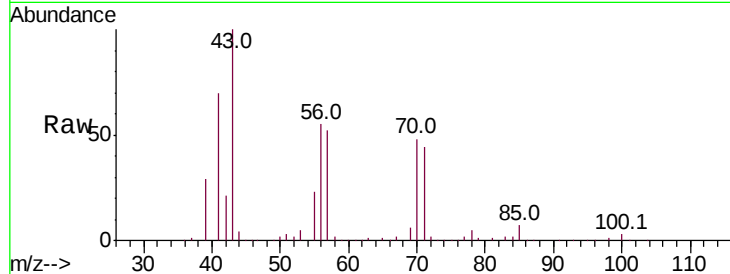
#33
 1,2-Dichloroethane-d4
 Concen: 13.569 ug/l m
 RT: 7.51 min Scan# 619
 Delta R.T. 0.05 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Instrument :
 MSVOA_D
 ClientSampleID :
 P-9(4.5-5.0)

Tot Ion: 65 Resp: 30362
 Ion Ratio Lower Upper
 65 100
 67 156.0 0.0 98.0#

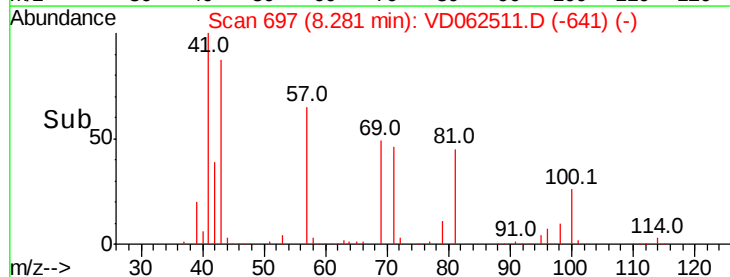
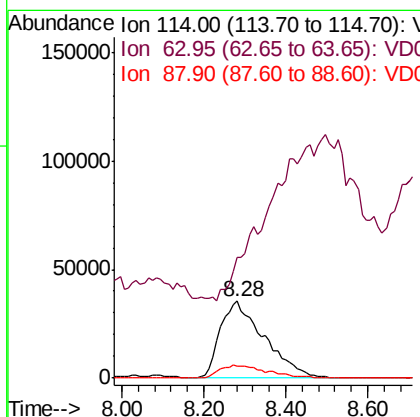
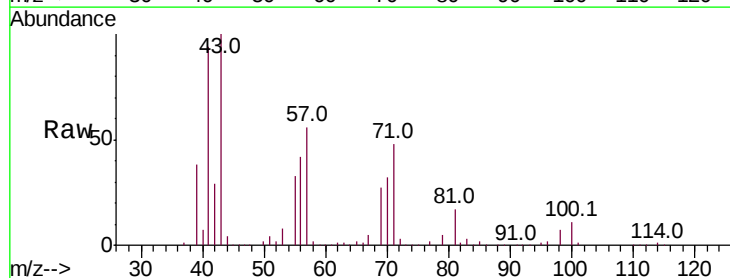
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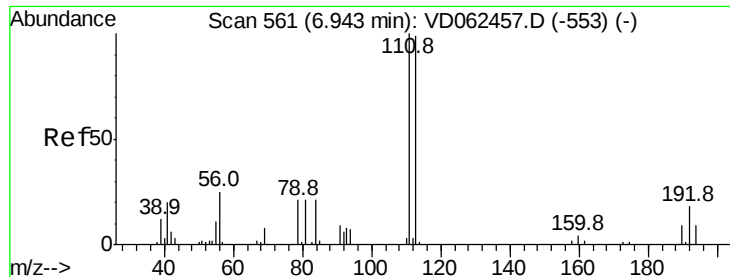
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.28 min Scan# 697
 Delta R.T. 0.05 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion:114 Resp: 263465
 Ion Ratio Lower Upper
 114 100
 63 158.0 0.0 32.4#
 88 15.3 0.0 33.6





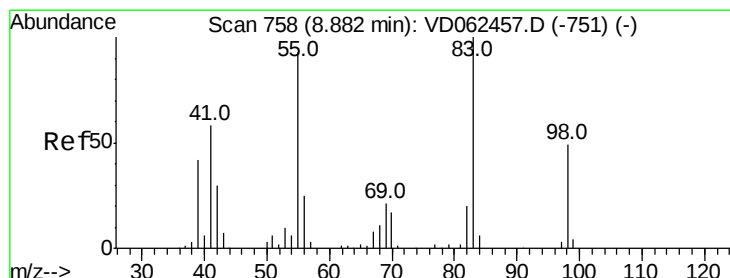
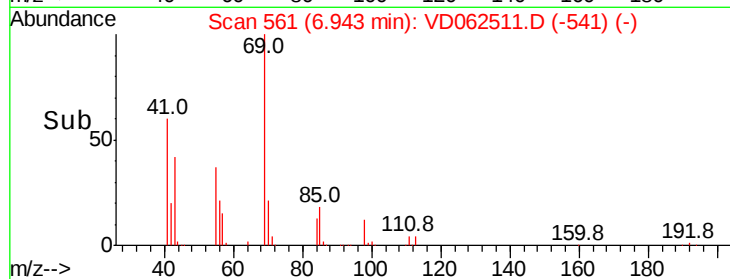
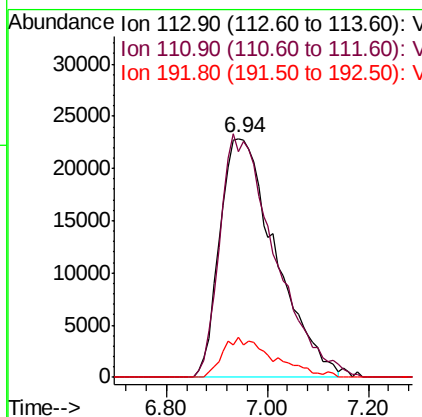
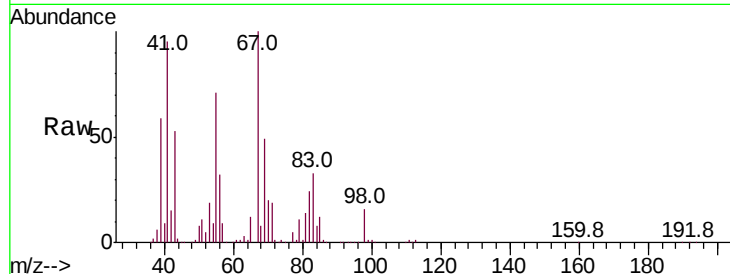
#35
Dibromofluoromethane
Concen: 73.820 ug/l
RT: 6.94 min Scan# 561
Delta R.T. -0.00 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Instrument :
MSVOA_D
ClientSampleId :
P-9(4.5-5.0)

Tot Ion	Ratio	Resp	Lower	Upper
113	100	175453		
111	94.5	78.5	117.7	
192	16.9	13.0	19.4	

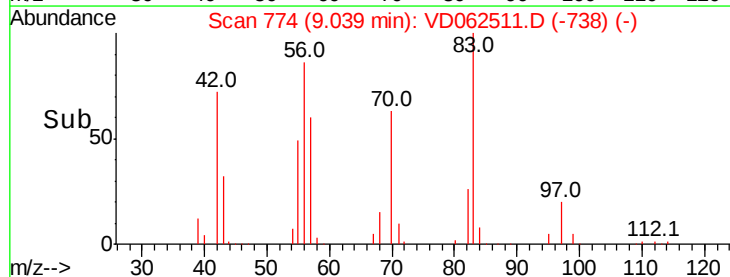
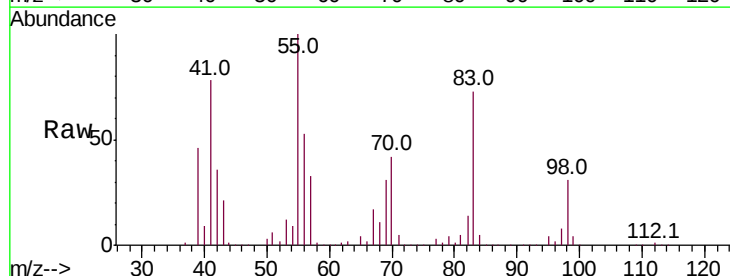
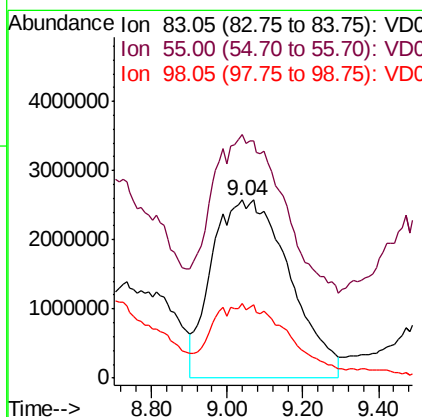
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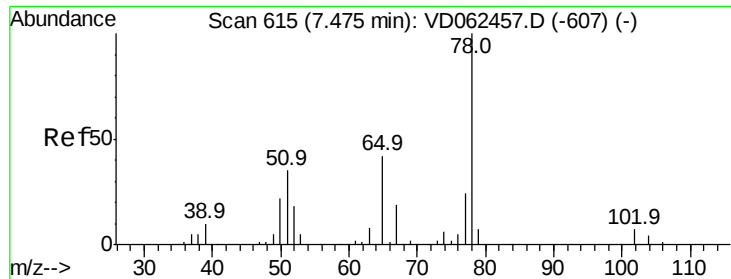
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#39
Methylcyclohexane
Concen: 17844.230 ug/l m
RT: 9.04 min Scan# 774
Delta R.T. 0.16 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	37073080		
55	136.9	68.2	102.4#	
98	42.3	38.2	57.4	





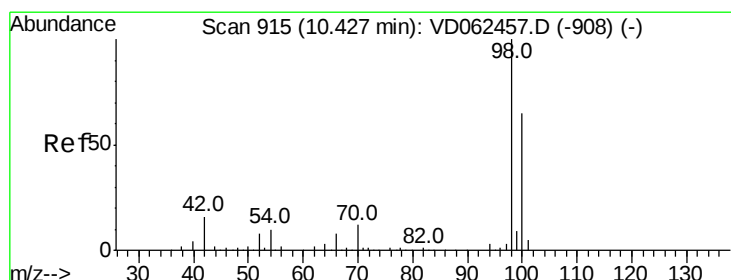
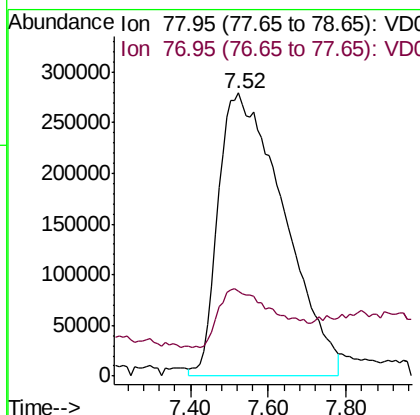
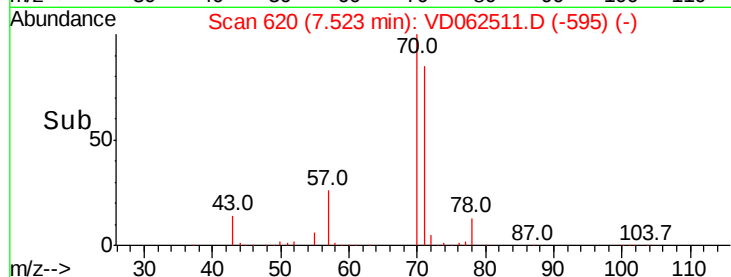
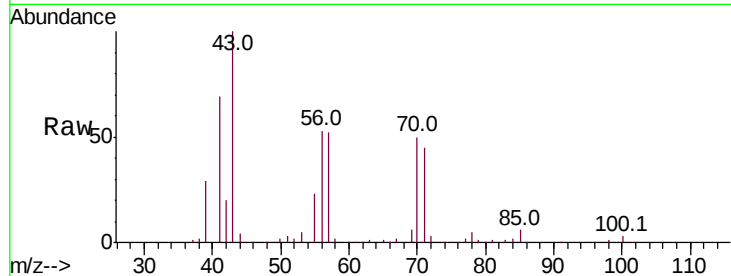
#40
Benzene
Concen: 661.004 ug/l m
RT: 7.52 min Scan# 620
Delta R.T. 0.05 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Instrument :
MSVOA_D
ClientSampleId :
P-9(4.5-5.0)

Tot Ion: 78 Resp: 3265935
Ion Ratio Lower Upper
78 100
77 29.9 19.7 29.5#

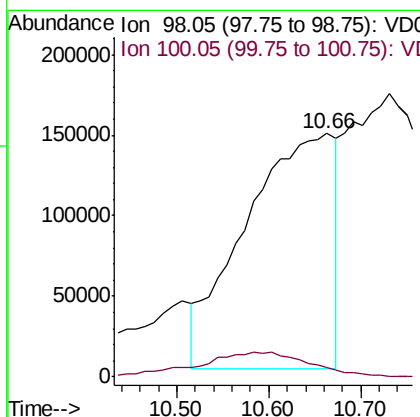
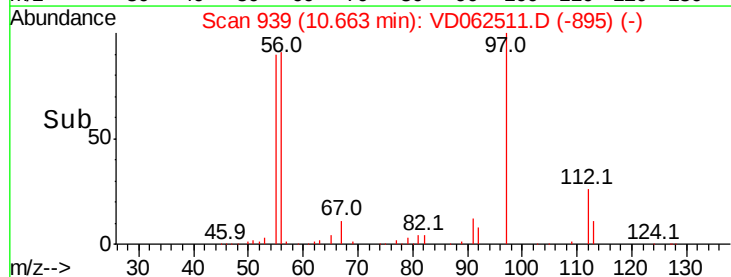
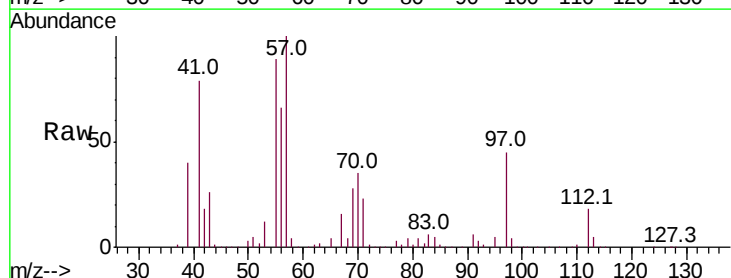
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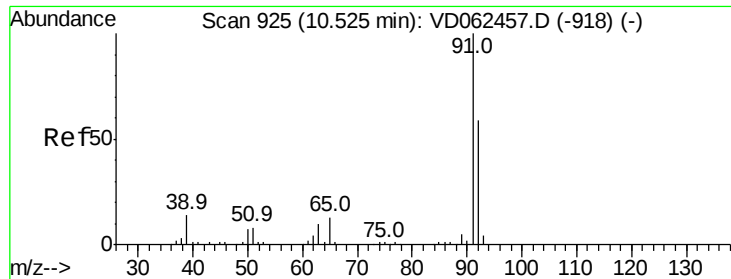
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#50
Toluene-d8
Concen: 191.370 ug/l m
RT: 10.66 min Scan# 939
Delta R.T. 0.24 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Tgt Ion: 98 Resp: 995378
Ion Ratio Lower Upper
98 100
100 4.1 53.8 80.8#





#52

Toluene

Concen: 406.224 ug/l m

RT: 10.69 min Scan# 942

Delta R.T. 0.17 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

ClientSampled :

P-9(4.5-5.0)

Tot Ion: 92 Resp: 1374029

Ion Ratio Lower Upper

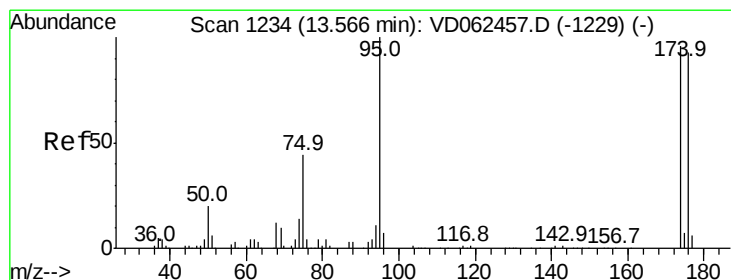
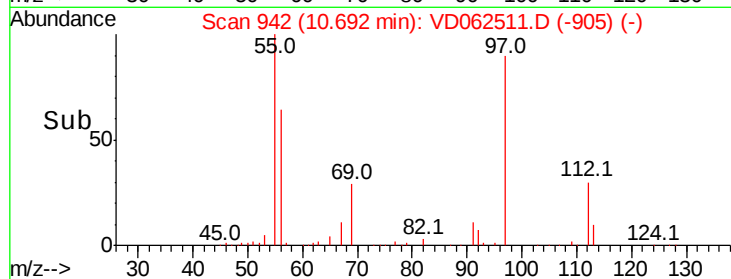
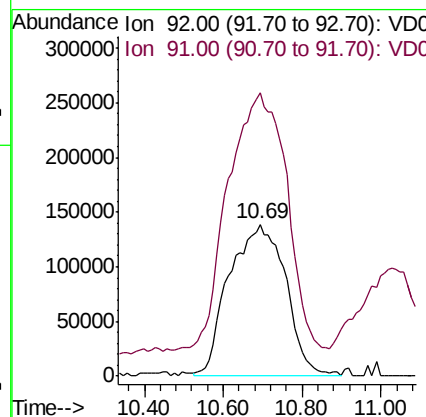
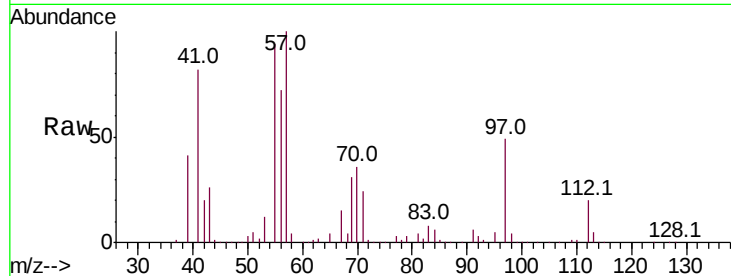
92 100

91 186.7 136.6 204.8

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#62

4-Bromofluorobenzene

Concen: 281.914 ug/l m

RT: 13.59 min Scan# 1236

Delta R.T. 0.02 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

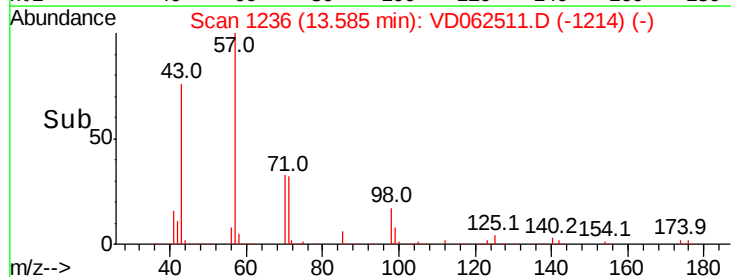
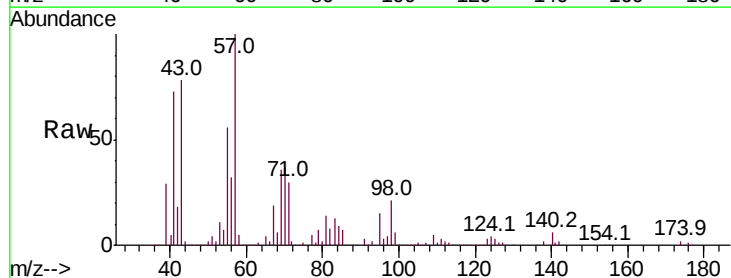
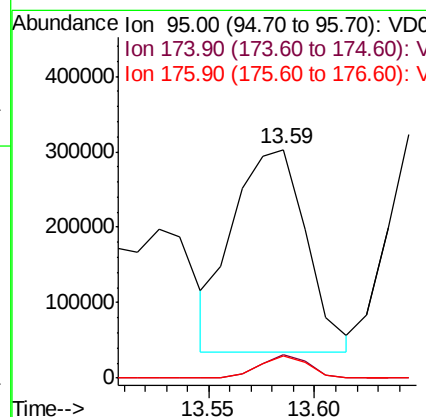
Tgt Ion: 95 Resp: 641423

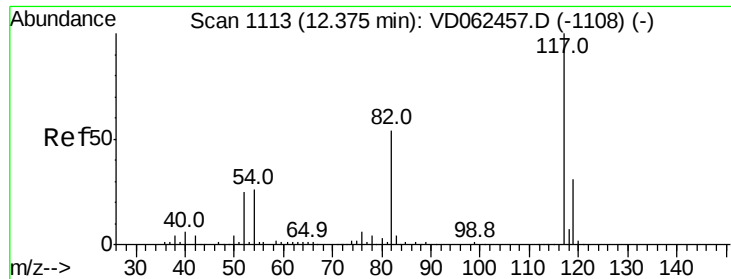
Ion Ratio Lower Upper

95 100

174 10.5 0.0 181.8

176 9.6 0.0 174.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.44 min Scan# 1120

Delta R.T. 0.07 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

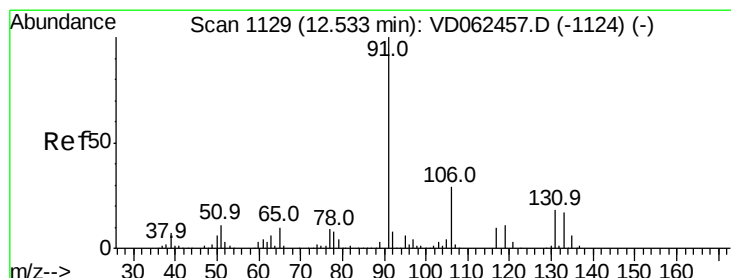
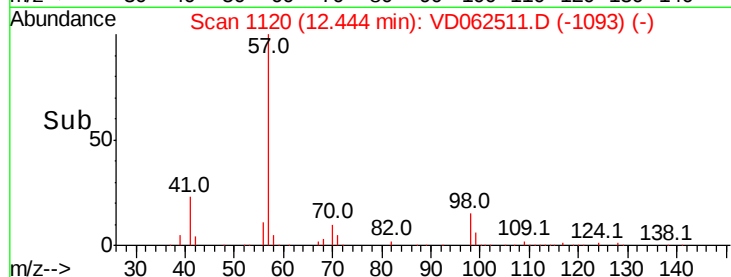
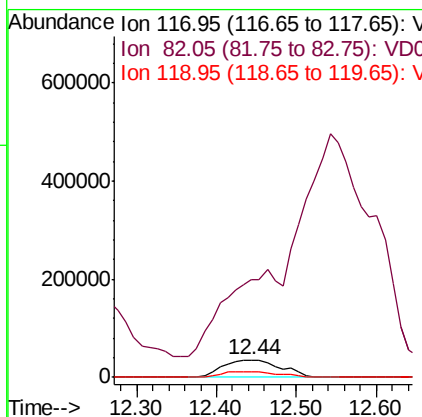
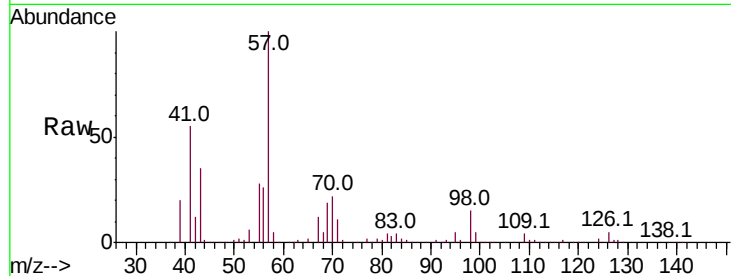
ClientSampleId :

P-9(4.5-5.0)

Tot Ion	Ratio	Lower	Upper
117	100		
82	563.4	36.2	54.2#
119	33.8	26.2	39.4

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#67

Ethyl Benzene

Concen: 6067.235 ug/l

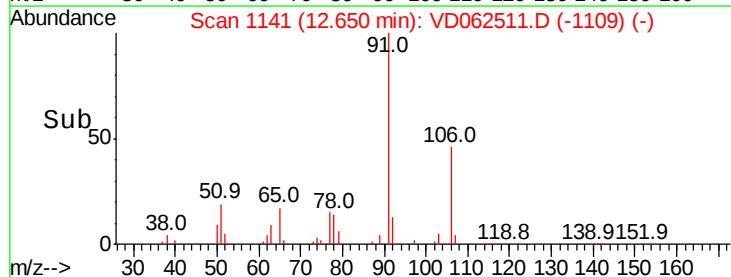
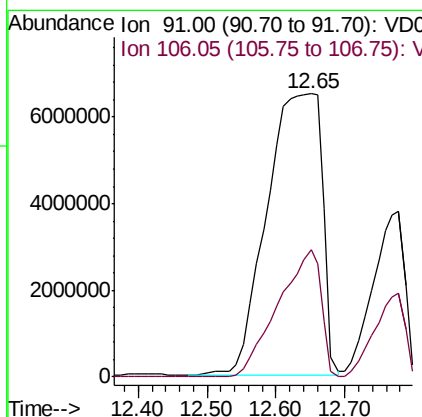
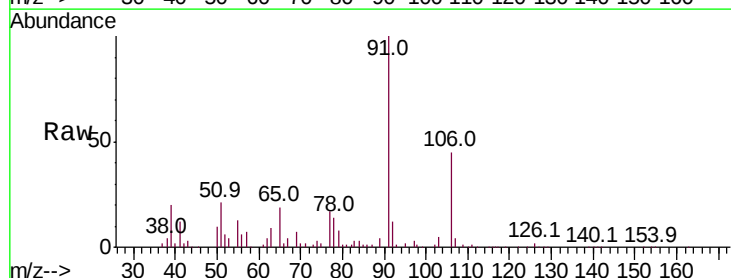
RT: 12.65 min Scan# 1141

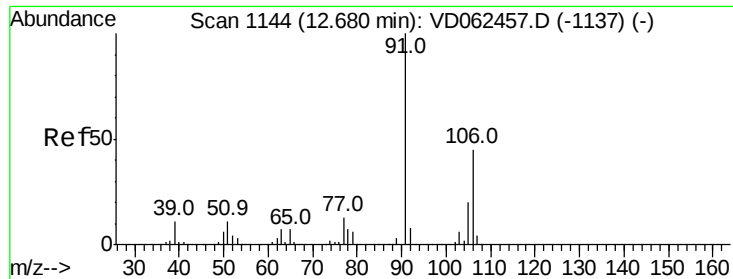
Delta R.T. 0.12 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.1	24.7	37.1#





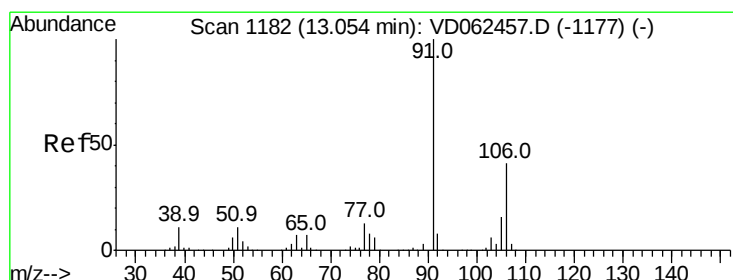
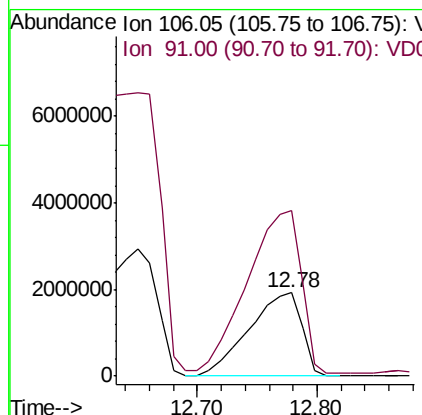
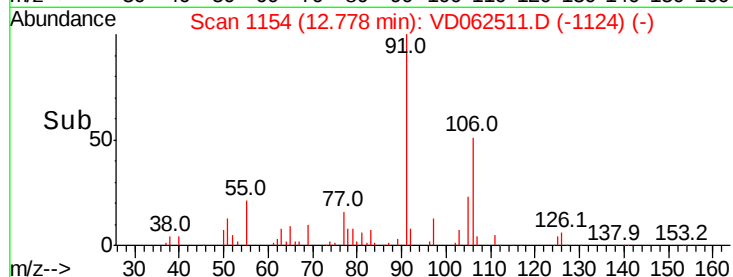
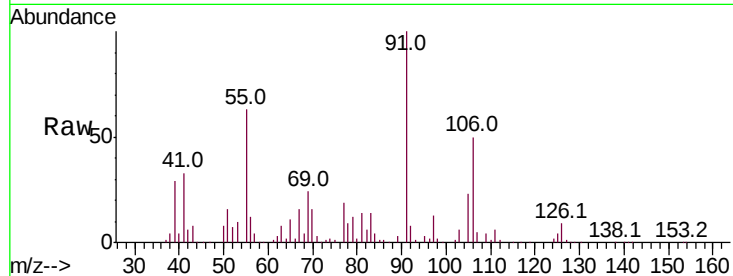
#68
m/p-Xylenes
Concen: 2763.105 ug/l m
RT: 12.78 min Scan# 1154
Delta R.T. 0.10 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Instrument :
MSVOA_D
ClientSampleId :
P-9(4.5-5.0)

Tot Ion:106 Resp: 5921510
Ion Ratio Lower Upper
106 100
91 198.6 164.0 246.0

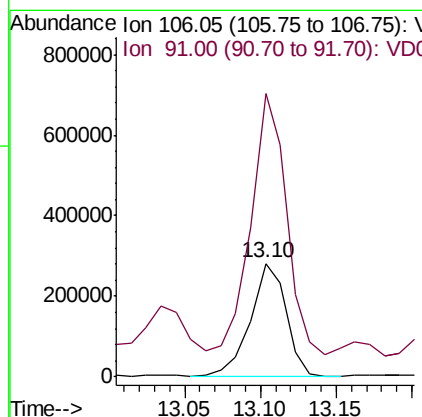
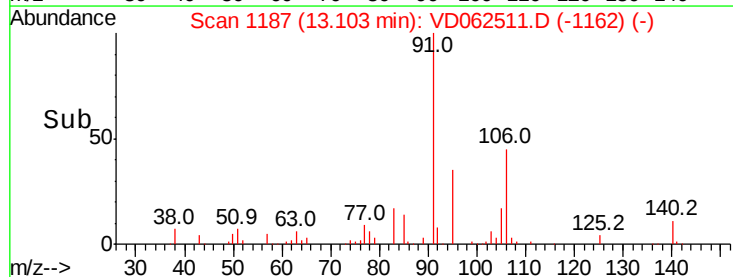
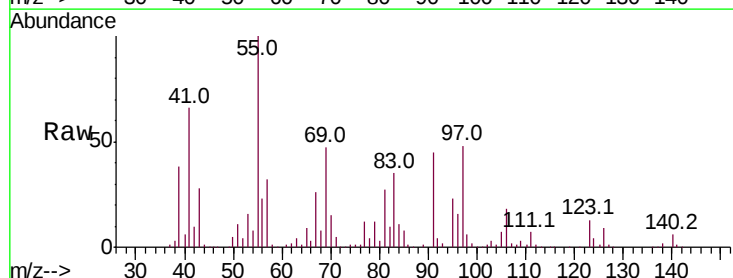
Manual Integrations
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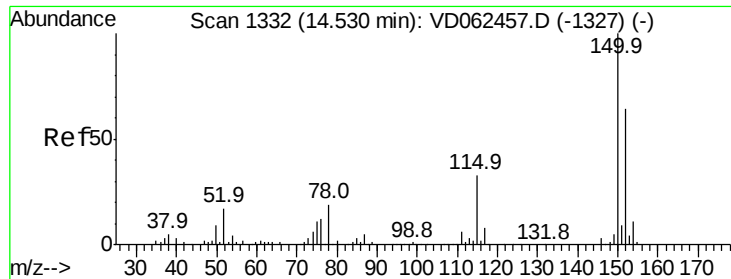
MMDadoda
5/23/2019 11:21:48 AM



#69
o-Xylene
Concen: 231.094 ug/l
RT: 13.10 min Scan# 1187
Delta R.T. 0.05 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Tgt Ion:106 Resp: 467281
Ion Ratio Lower Upper
106 100
91 249.3 106.7 319.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

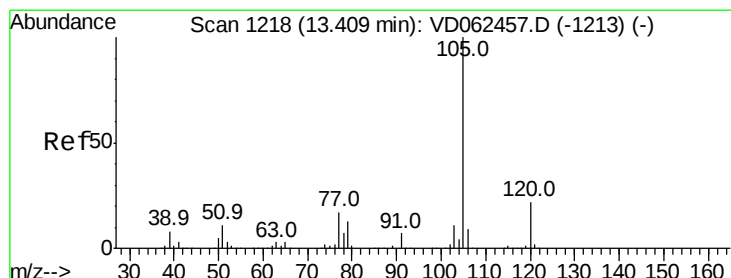
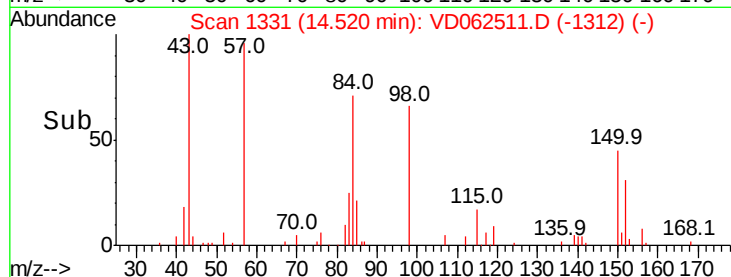
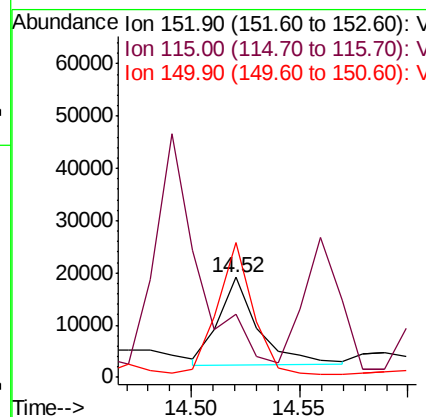
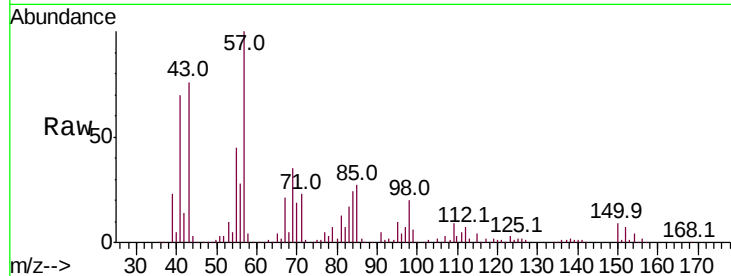
ClientSampleId :

P-9(4.5-5.0)

Tot Ion:	152	Resp:	21532
Ion Ratio	Lower	Upper	
152	100		
115	63.2	30.9	92.7
150	134.8	0.0	314.8

Manual Integrations
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#73

Isopropylbenzene

Concen: 14851.578 ug/l

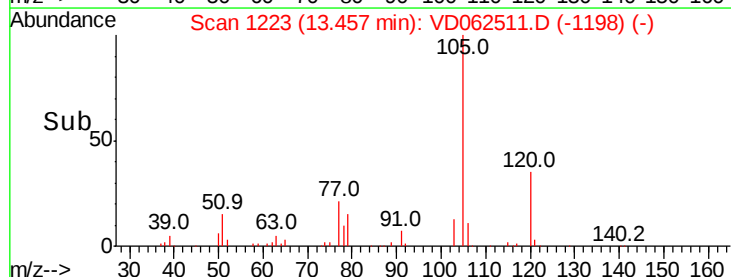
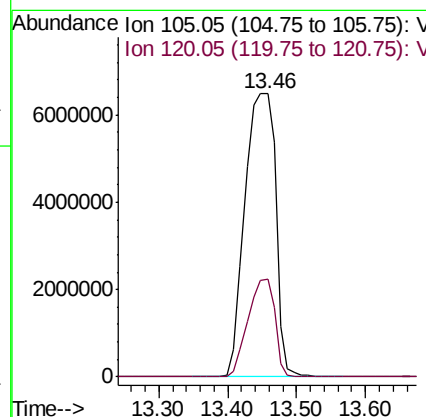
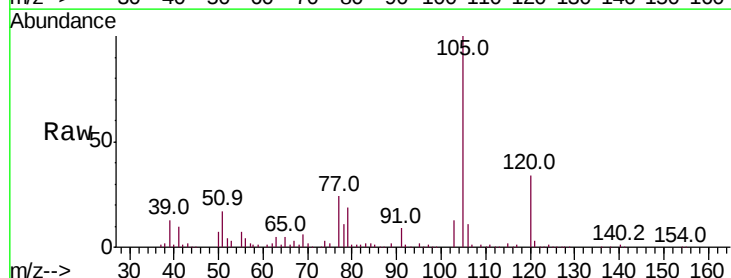
RT: 13.46 min Scan# 1223

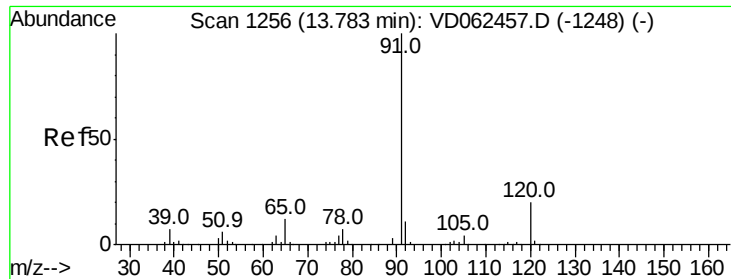
Delta R.T. 0.05 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Tgt Ion:	105	Resp:	20157206
Ion Ratio	Lower	Upper	
105	100		
120	34.4	12.0	36.1





#78

n-propylbenzene

Concen: 11089.036 ug/l

RT: 13.80 min Scan# 1258

Delta R.T. 0.02 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

ClientSampleId :

P-9(4.5-5.0)

Tot Ion: 91 Resp: 17433522

Ion Ratio Lower Upper

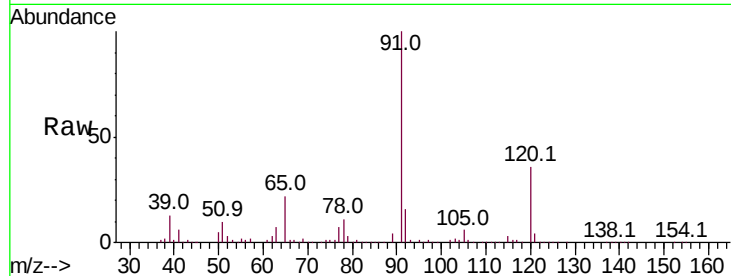
91 100

120 36.3 11.1 33.1#

Manual Integrations
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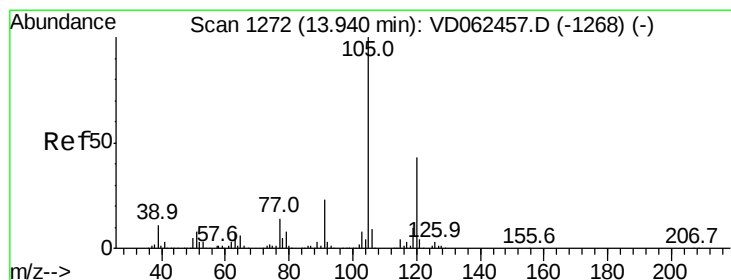
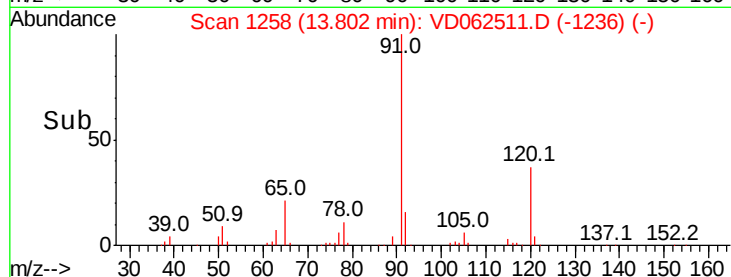
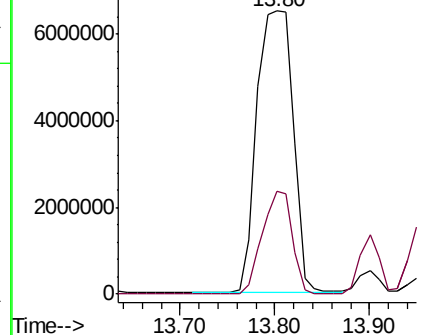
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V



#80

1,3,5-Trimethylbenzene

Concen: 3632.760 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD062511.D

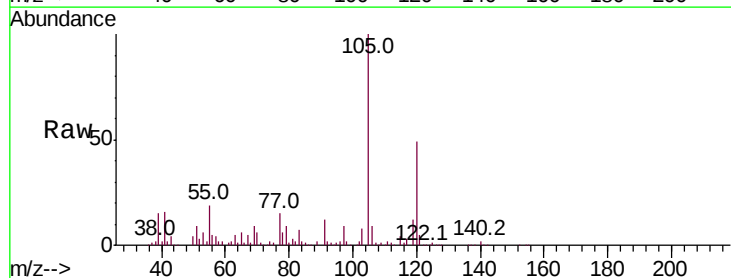
Acq: 22 May 2019 19:02

Tgt Ion: 105 Resp: 4269106

Ion Ratio Lower Upper

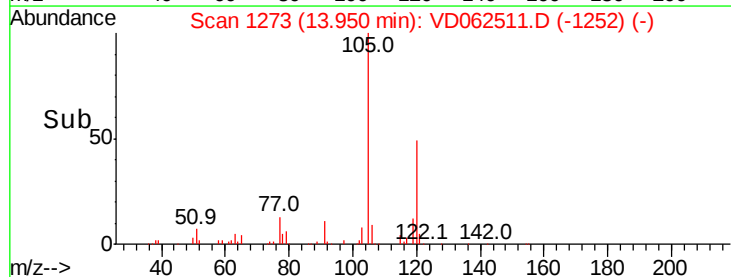
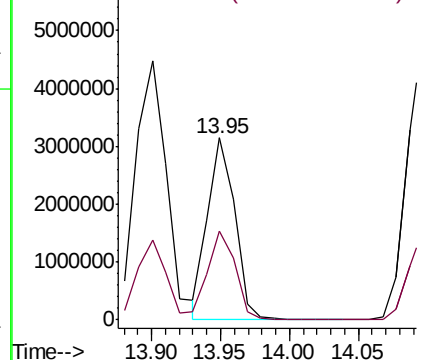
105 100

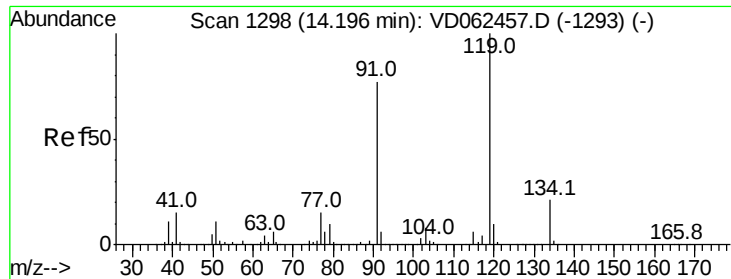
120 49.1 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#83

tert-Butylbenzene

Concen: 273.065 ug/l

RT: 14.20 min Scan# 1298

Delta R.T. -0.00 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

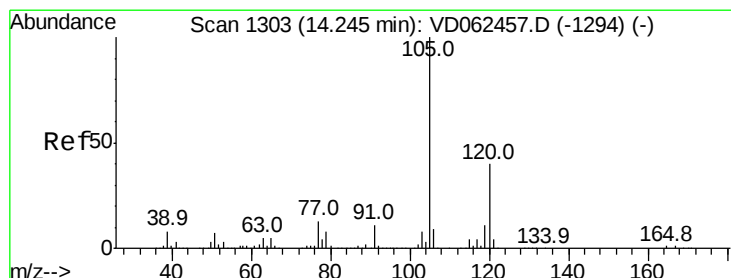
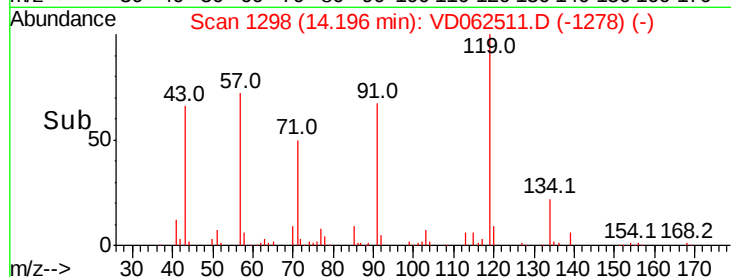
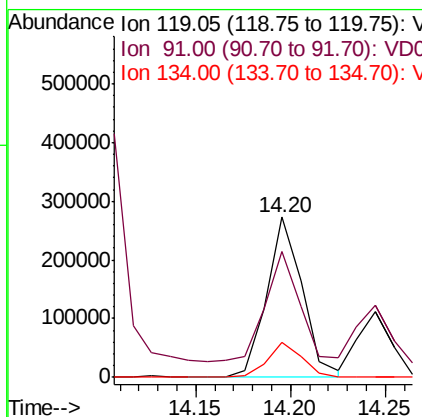
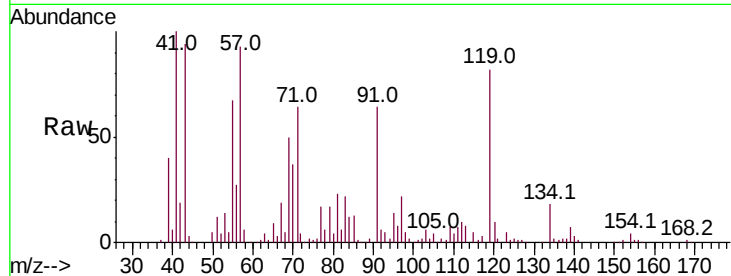
ClientSampled :

P-9(4.5-5.0)

Tot Ion:	119	Resp:	355951
Ion Ratio	Lower	Upper	
119	100		
91	78.7	34.2	102.6
134	21.8	12.0	36.0

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 1059.418 ug/l

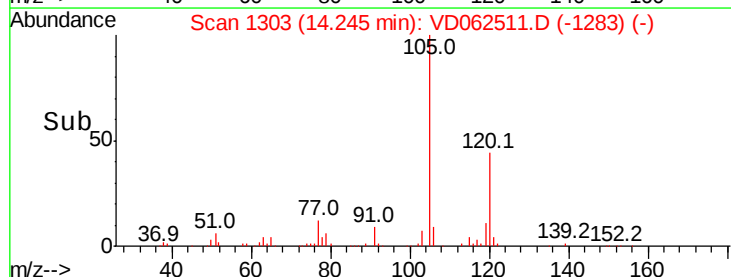
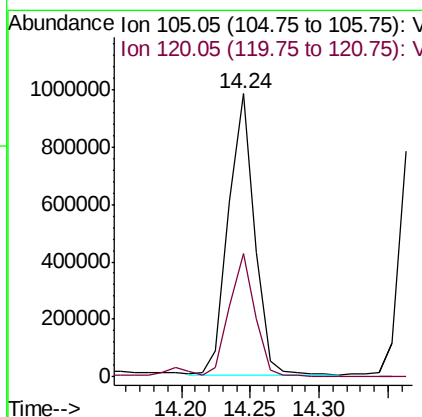
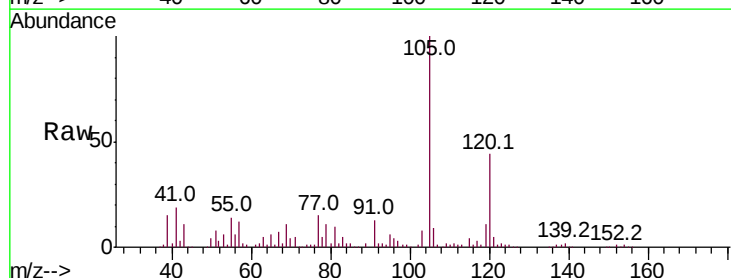
RT: 14.24 min Scan# 1303

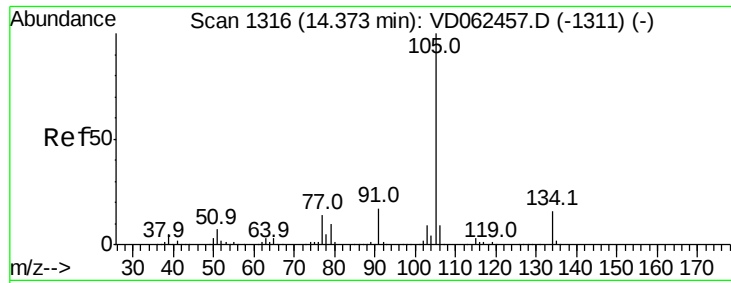
Delta R.T. -0.00 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Tgt Ion:	105	Resp:	1275717
Ion Ratio	Lower	Upper	
105	100		
120	43.6	23.1	69.2





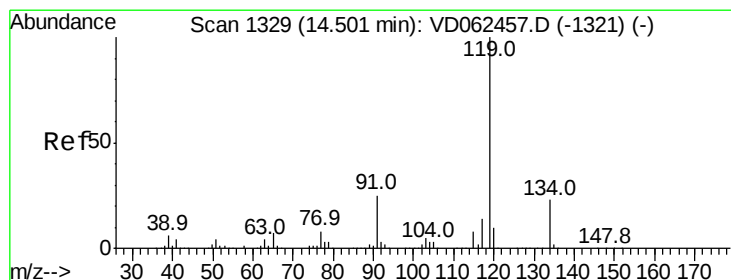
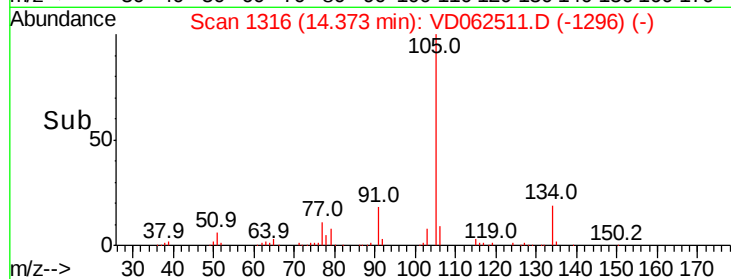
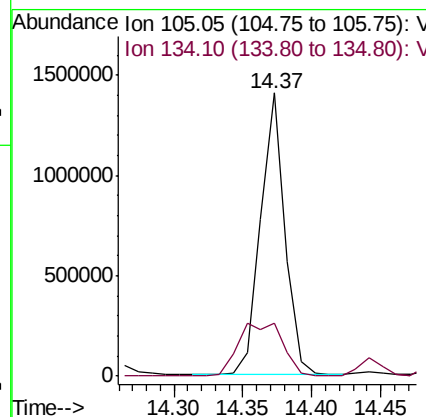
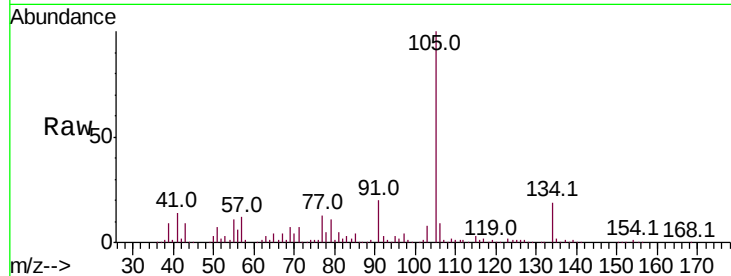
#85
 sec-Butylbenzene
 Concen: 1276.225 ug/l
 RT: 14.37 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Instrument :
 MSVOA_D
 ClientSampleId :
 P-9(4.5-5.0)

Tot Ion:105 Resp: 1734672
 Ion Ratio Lower Upper
 105 100
 134 18.9 8.9 26.7

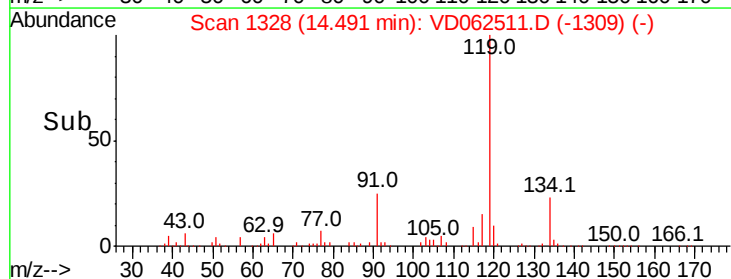
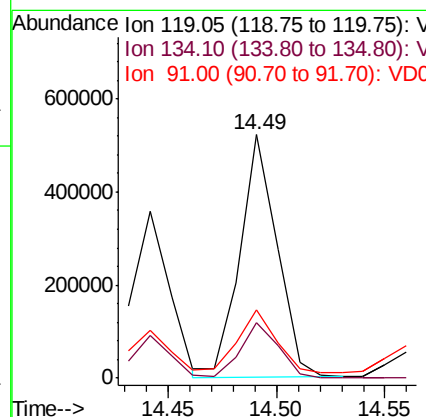
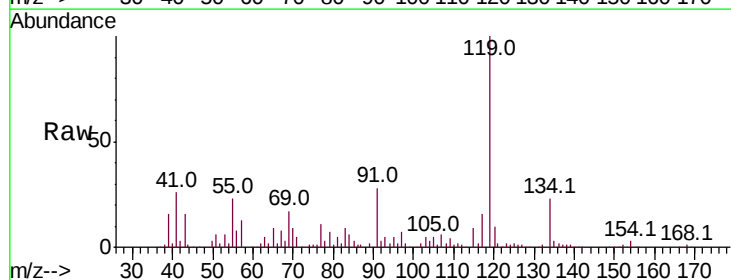
Manual Integrations
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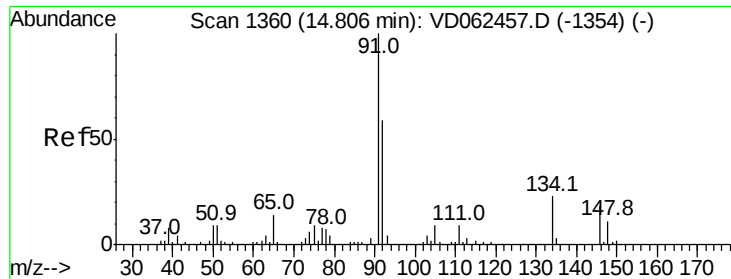
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#86
 p-Isopropyltoluene
 Concen: 503.442 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion:119 Resp: 620120
 Ion Ratio Lower Upper
 119 100
 134 23.0 12.8 38.3
 91 28.1 10.7 32.1





#89

n-Butylbenzene

Concen: 828.286 ug/l m

RT: 14.80 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

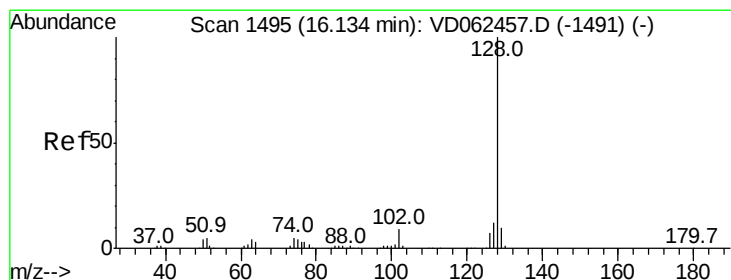
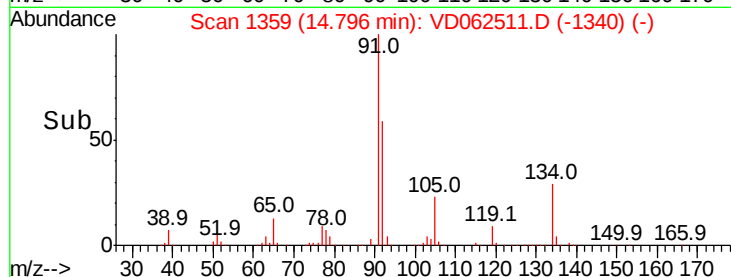
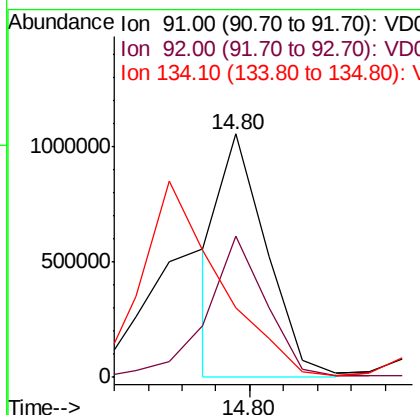
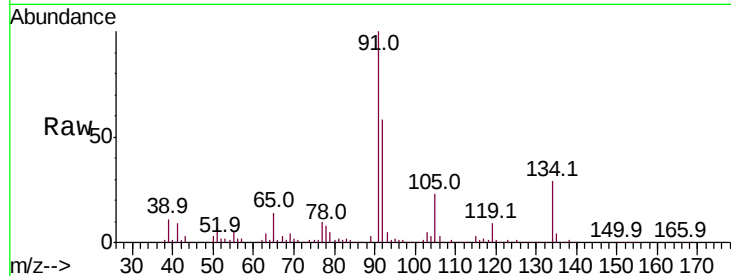
ClientSampled :

P-9(4.5-5.0)

Tot Ion:	91	Resp:	984628
Ion Ratio	Lower	Upper	
91	100		
92	57.8	30.3	91.0
134	28.6	14.5	43.6

Manual Integrations
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#95

Naphthalene

Concen: 427.701 ug/l

RT: 16.11 min Scan# 1493

Delta R.T. -0.02 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Tgt Ion:	128	Resp:	266045
Ion Ratio	Lower	Upper	
128	100		
127	12.0	9.8	14.8
129	10.1	8.8	13.2

