

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062514.D
 Acq On : 22 May 2019 20:23
 Operator : VA/AP
 Sample : K2996-01RE
 Misc : 7.38g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-1(9.5-10.0)RE

Manual Integrations
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 5/23/2019 11:21:58 AM

Quant Time: May 23 05:02:04 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	7.09	168	141955m	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.28	114	175055	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.44	117	147177	50.00	ug/l	0.06
72) 1,4-Dichlorobenzene-d4	14.53	152	6555	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.53	65	7520m	4.95	ug/l	0.06
Spiked Amount			Recovery	=	9.90%	
35) Dibromofluoromethane	6.97	113	125325	79.36	ug/l	0.02
Spiked Amount			Recovery	=	158.72%	
50) Toluene-d8	10.64	98	655807m	189.76	ug/l	0.21
Spiked Amount			Recovery	=	379.52%	
62) 4-Bromofluorobenzene	13.58	95	289532m	191.52	ug/l	0.01
Spiked Amount			Recovery	=	383.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.82	50	187989	191.163	ug/l #	72
31) Cyclohexane	7.10	56	9021689m	6288.017	ug/l	
39) Methylcyclohexane	9.10	83	29371994m	21277.519	ug/l	
40) Benzene	7.55	78	4315298m	1314.485	ug/l	
52) Toluene	10.73	92	1874614m	834.123	ug/l	
67) Ethyl Benzene	12.65	91	63909268m	13109.670	ug/l	
68) m/p-Xylenes	12.80	106	27926765m	15958.849	ug/l	
69) o-Xylene	13.11	106	316819	191.884	ug/l	79
73) Isopropylbenzene	13.44	105	15017638	36345.911	ug/l	90
78) n-propylbenzene	13.80	91	13504256	28215.710	ug/l	92
80) 1,3,5-Trimethylbenzene	13.95	105	7128707	19926.093	ug/l	95
83) tert-Butylbenzene	14.20	119	137449m	346.360	ug/l	
84) 1,2,4-Trimethylbenzene	14.27	105	20618294	56244.182	ug/l	82
85) sec-Butylbenzene	14.38	105	911186	2202.058	ug/l	98
86) p-Isopropyltoluene	14.50	119	348671	929.824	ug/l	86
89) n-Butylbenzene	14.80	91	813280m	2247.294	ug/l	
95) Naphthalene	16.12	128	570053	3010.313	ug/l	99

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

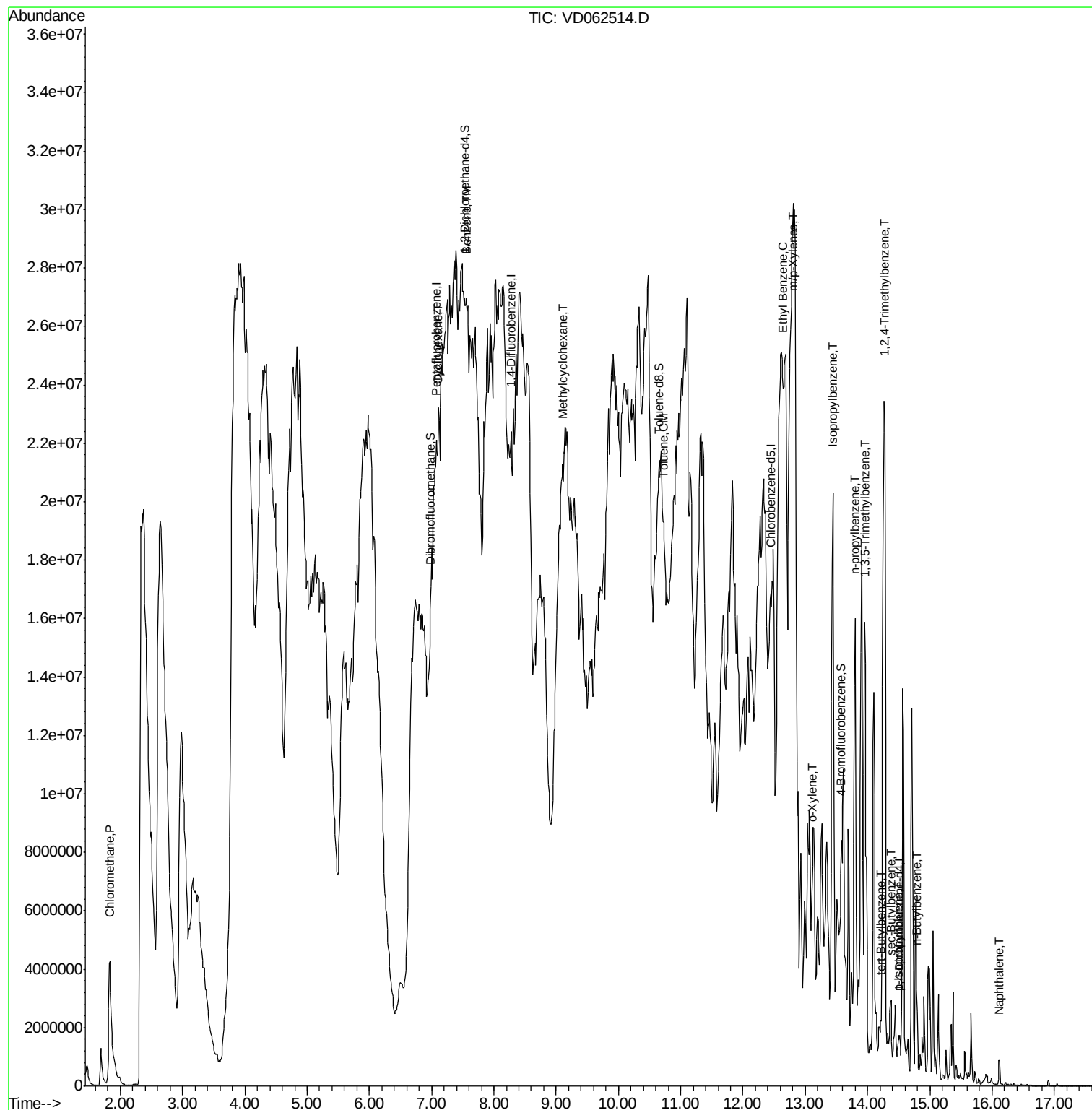
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062514.D
Acq On : 22 May 2019 20:23
Operator : VA/AP
Sample : K2996-01RE
Misc : 7.38g/5ml/MSVOA D/SOIL
ALS Vial : 20 Sample Multiplier: 1

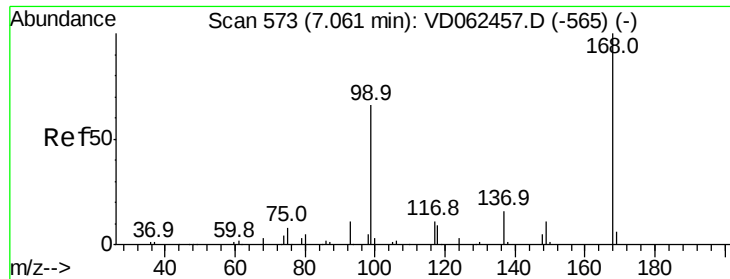
Instrument :
MSVOA_D
ClientSampleId :
P-1(9.5-10.0)RE

Manual Integrations
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Quant Time: May 23 05:02:04 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l m

RT: 7.09 min Scan# 575

Delta R.T. 0.02 min

Lab File: VD062514.D

Acq: 22 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

P-1(9.5-10.0)RE

Tot Ion:168 Resp: 141955

Ion Ratio Lower Upper

168 100

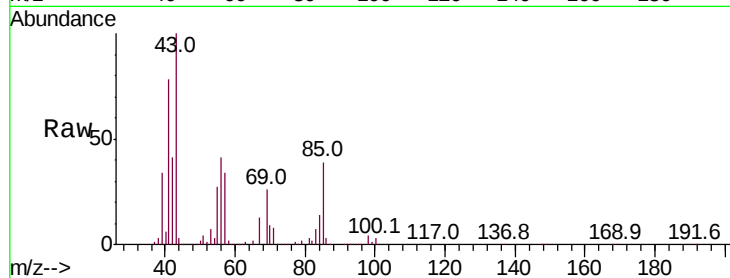
99 212.0 46.5 69.7#

Manual Integrations

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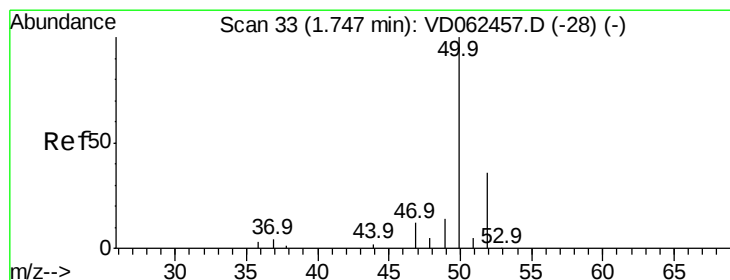
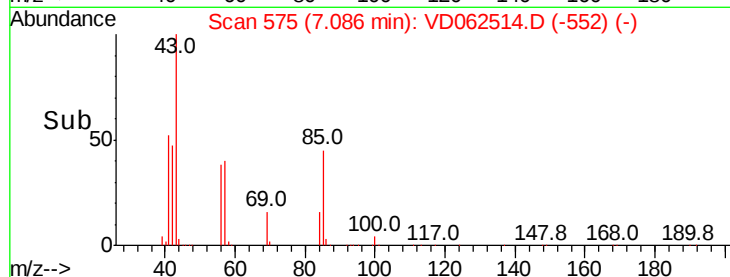
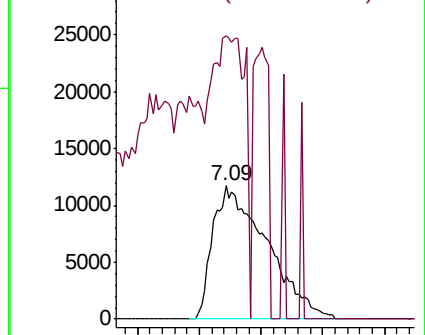
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 191.163 ug/l

RT: 1.82 min Scan# 40

Delta R.T. 0.07 min

Lab File: VD062514.D

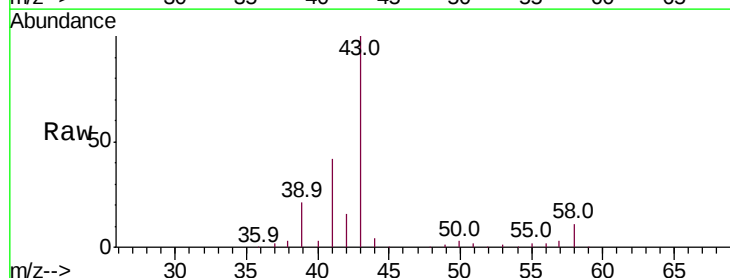
Acq: 22 May 2019 20:23

Tgt Ion: 50 Resp: 187989

Ion Ratio Lower Upper

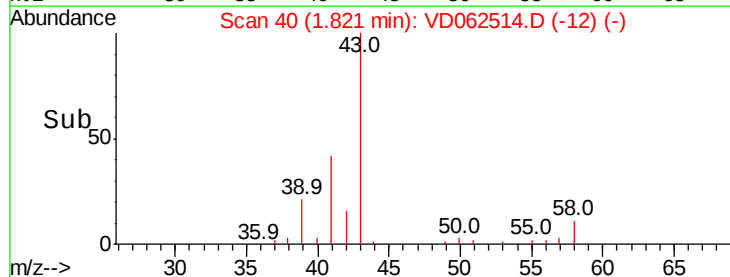
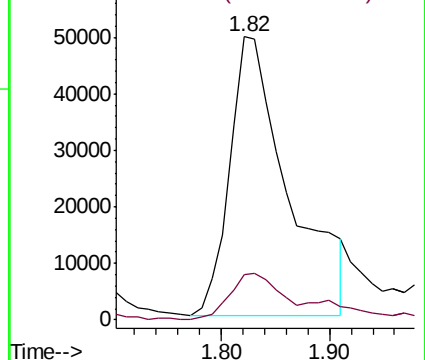
50 100

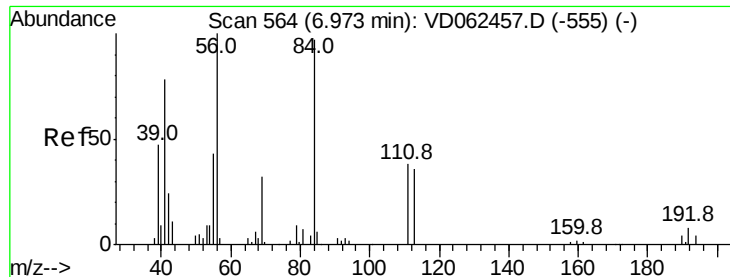
52 15.8 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





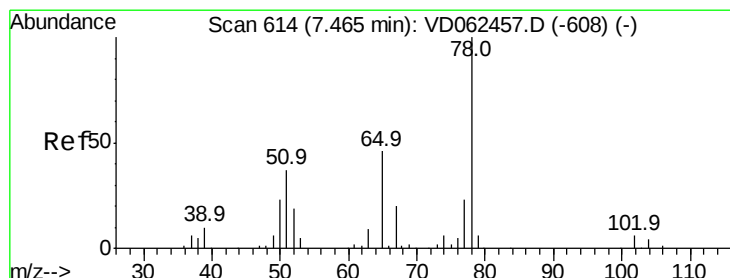
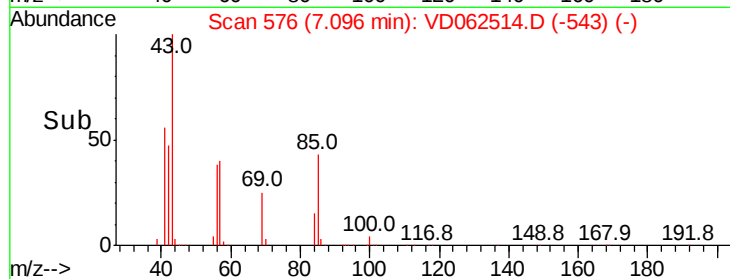
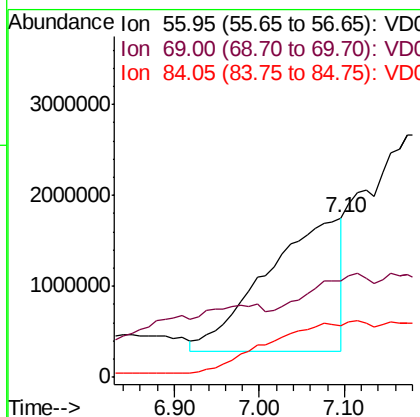
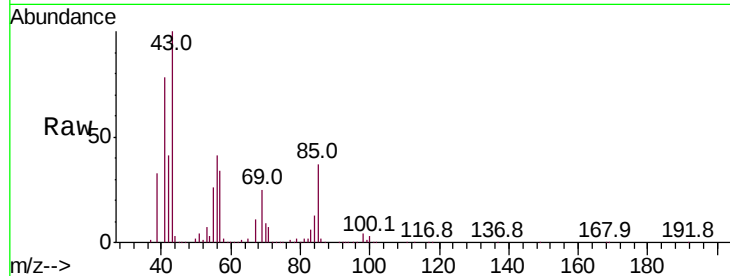
#31
Cvclohexane
Concen: 6288.017 ug/l m
RT: 7.10 min Scan# 576
Delta R.T. 0.12 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Instrument :
MSVOA_D
ClientSampleId :
P-1(9.5-10.0)RE

Tot Ion: 56 Resp: 9021689
Ion Ratio Lower Upper
56 100
69 60.7 25.8 38.6#
84 32.4 72.2 108.4#

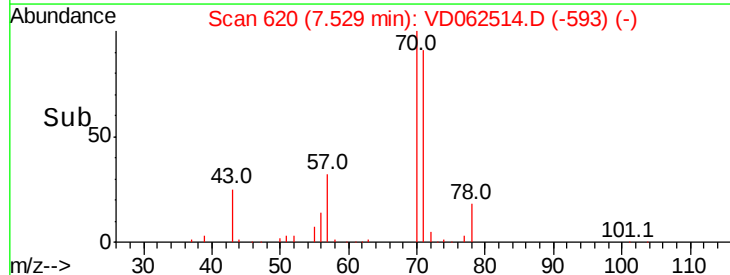
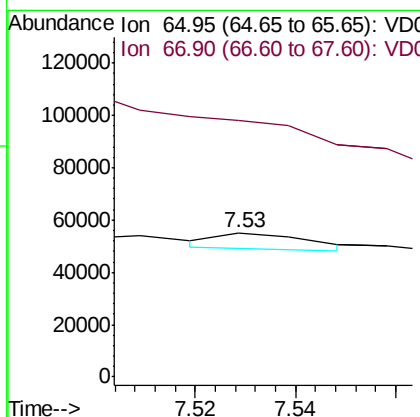
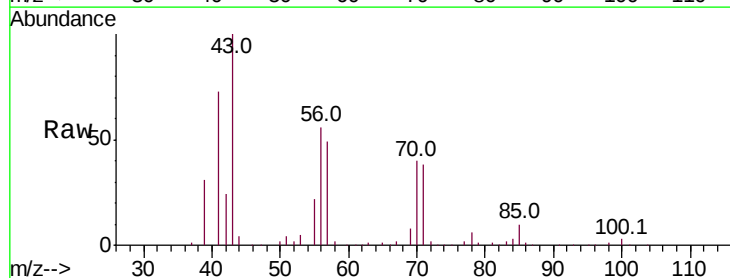
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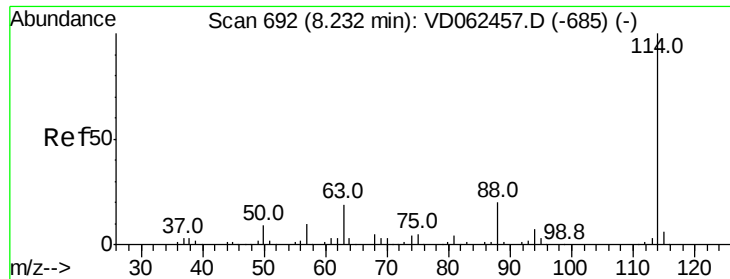
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#33
1,2-Dichloroethane-d4
Concen: 4.949 ug/l m
RT: 7.53 min Scan# 620
Delta R.T. 0.06 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Tgt Ion: 65 Resp: 7520
Ion Ratio Lower Upper
65 100
67 177.9 0.0 98.0#





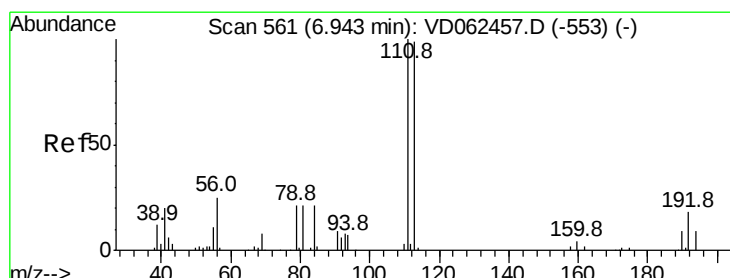
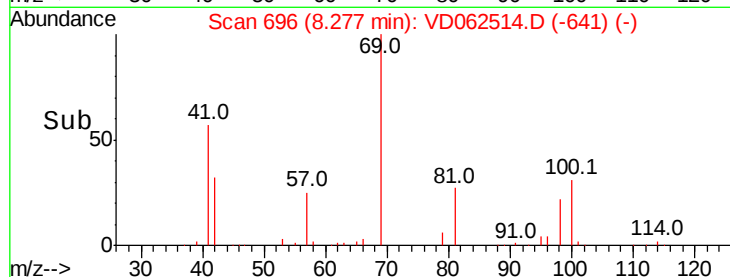
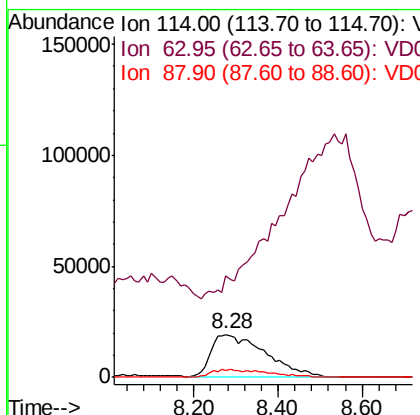
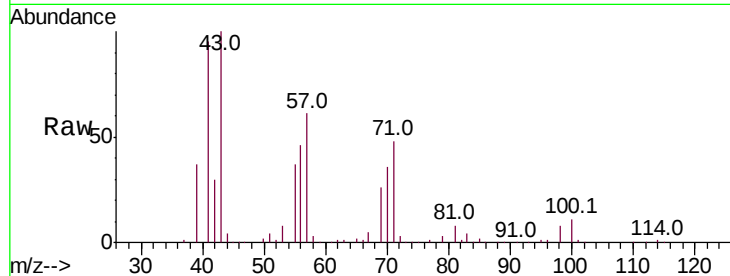
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.28 min Scan# 696
 Delta R.T. 0.04 min
 Lab File: VD062514.D
 Acq: 22 May 2019 20:23

Instrument :
 MSVOA_D
 ClientSampleId :
 P-1(9.5-10.0)RE

Tot Ion	Ratio	Resp	Lower	Upper
114	100			
63	236.4	0.0	32.4#	
88	16.2	0.0	33.6	

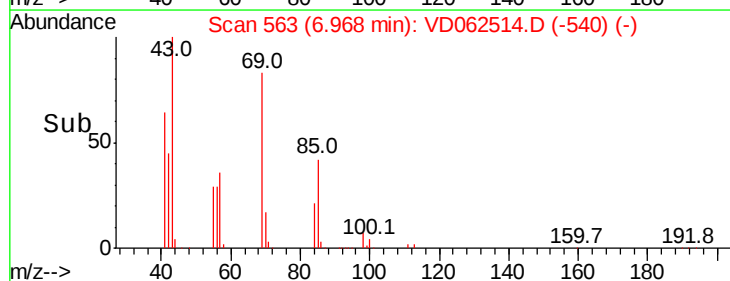
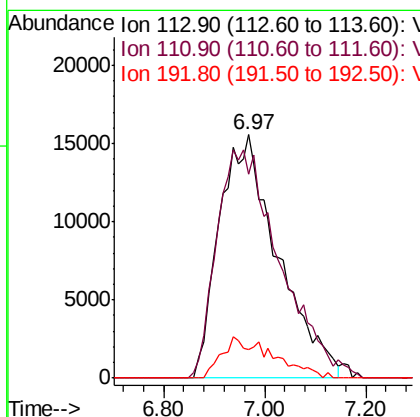
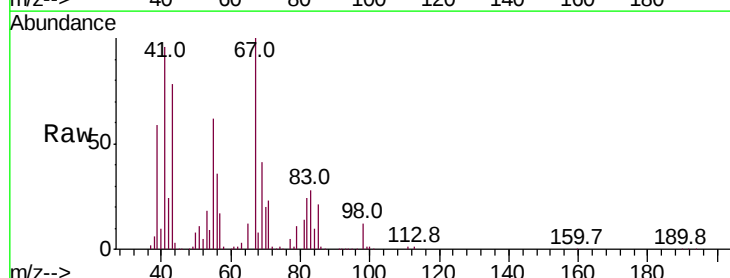
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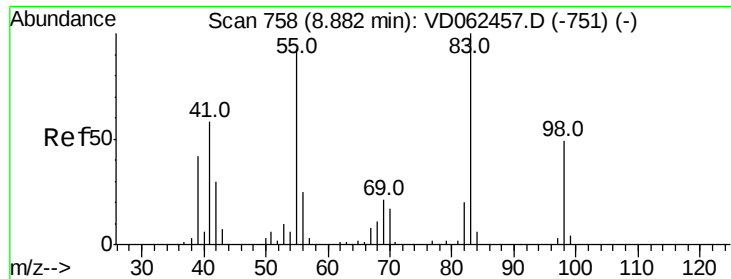
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#35
 Dibromofluoromethane
 Concen: 79.359 ug/l
 RT: 6.97 min Scan# 563
 Delta R.T. 0.02 min
 Lab File: VD062514.D
 Acq: 22 May 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
113	100			
111	83.8	78.5	117.7	
192	11.7	13.0	19.4#	





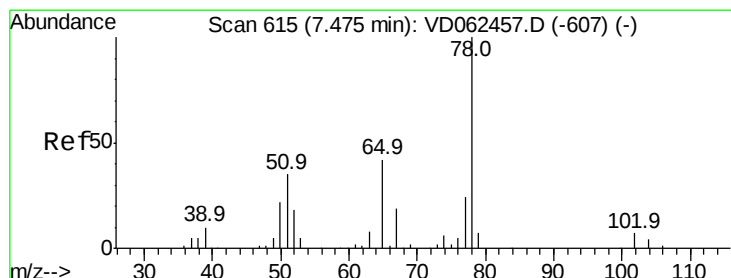
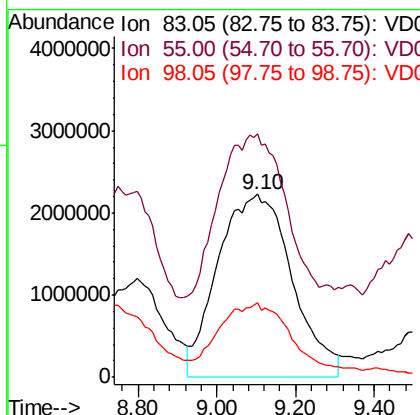
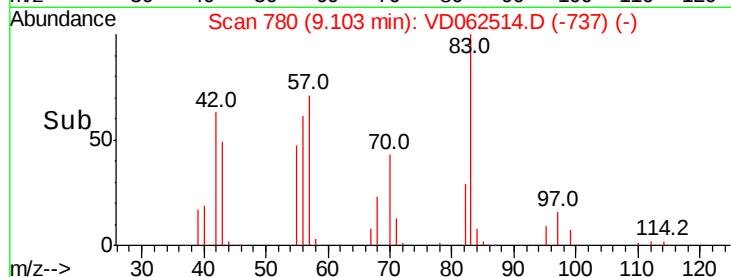
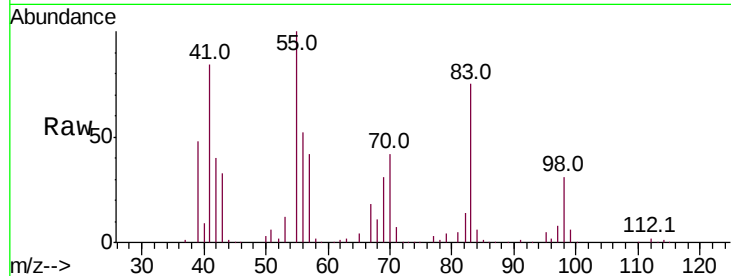
#39
Methvlcvclohexane
Concen: 21277.519 ug/l m
RT: 9.10 min Scan# 780
Delta R.T. 0.22 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Instrument :
MSVOA_D
ClientSampleId :
P-1(9.5-10.0)RE

Tot Ion: 83 Resp:29371994
Ion Ratio Lower Upper
83 100
55 132.8 68.2 102.4#
98 40.5 38.2 57.4

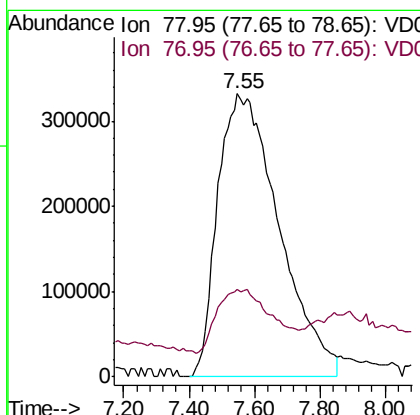
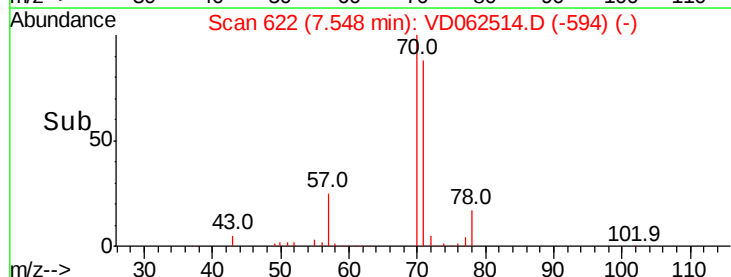
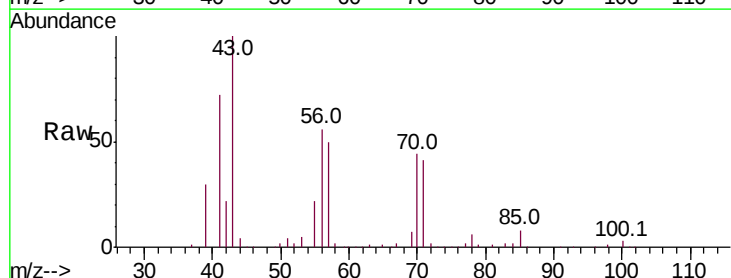
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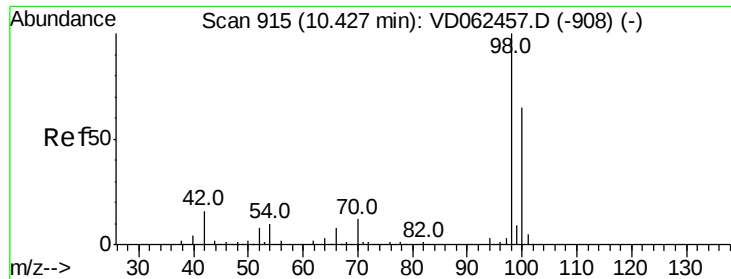
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#40
Benzene
Concen: 1314.485 ug/l m
RT: 7.55 min Scan# 622
Delta R.T. 0.07 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Tgt Ion: 78 Resp: 4315298
Ion Ratio Lower Upper
78 100
77 31.0 19.7 29.5#





#50

Toluene-d8

Concen: 189.763 ug/l m

RT: 10.64 min Scan# 936

Delta R.T. 0.21 min

Lab File: VD062514.D

Acq: 22 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

P-1(9.5-10.0)RE

Tot Ion: 98 Resp: 655807

Ion Ratio Lower Upper

98 100

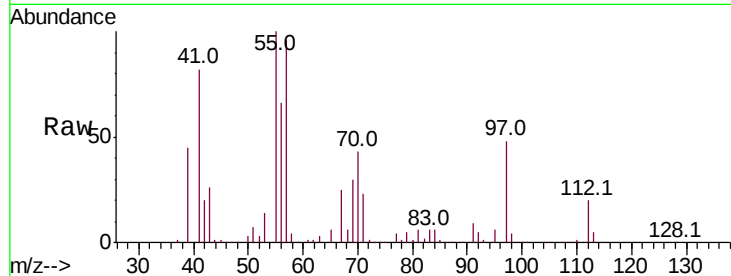
100 7.0 53.8 80.8#

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Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

150000

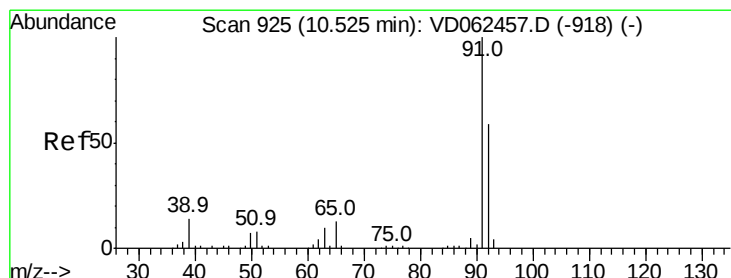
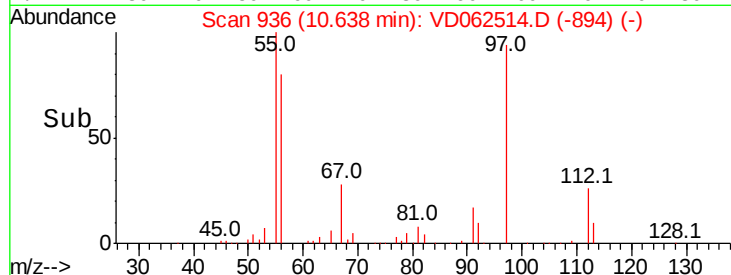
100000

50000

0

10.50 10.60 10.70

Time-->



#52

Toluene

Concen: 834.123 ug/l m

RT: 10.73 min Scan# 945

Delta R.T. 0.20 min

Lab File: VD062514.D

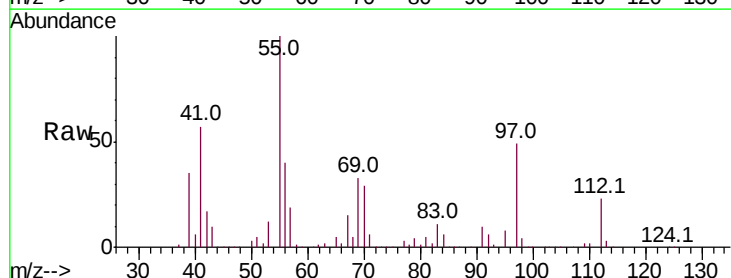
Acq: 22 May 2019 20:23

Tgt Ion: 92 Resp: 1874614

Ion Ratio Lower Upper

92 100

91 186.5 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

400000

300000

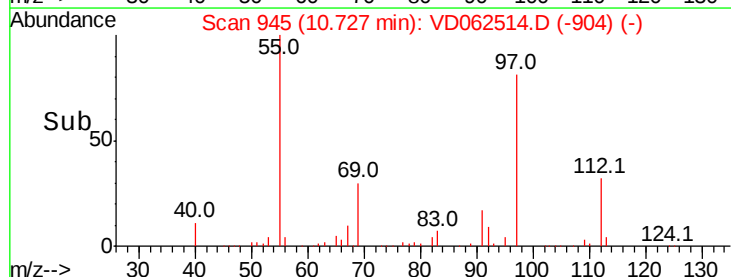
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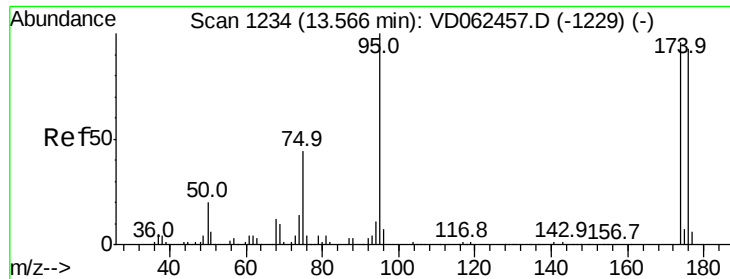
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10.40 10.60 10.80 11.00

Time-->





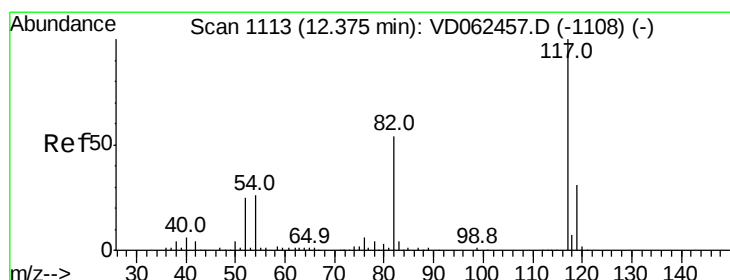
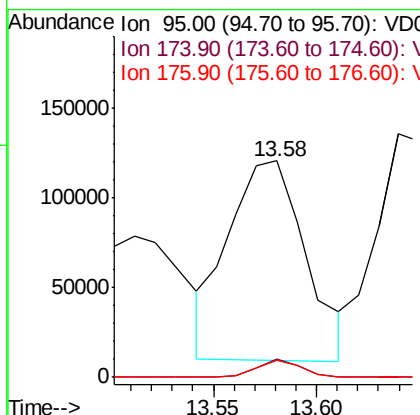
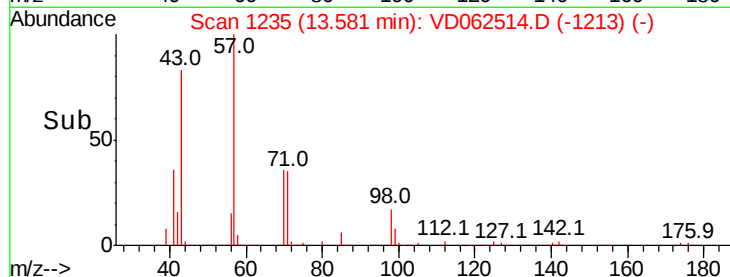
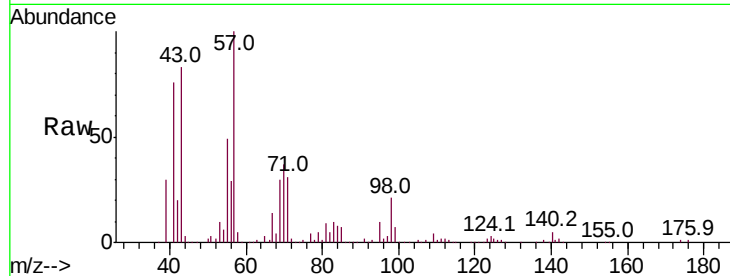
#62
4-Bromofluorobenzene
Concen: 191.521 ug/l
RT: 13.58 min Scan# 1235
Delta R.T. 0.01 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Instrument :
MSVOA_D
ClientSampleId :
P-1(9.5-10.0)RE

Tot Ion	Ratio	Resp	Lower	Upper
95	100	289532		
174	8.3	0.0	181.8	
176	7.7	0.0	174.4	

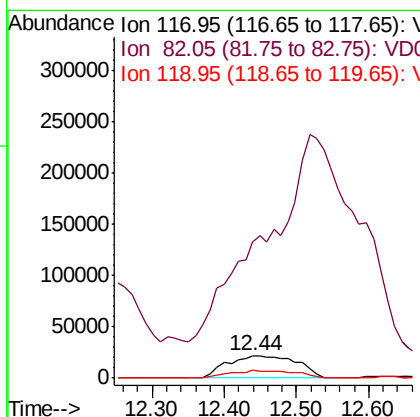
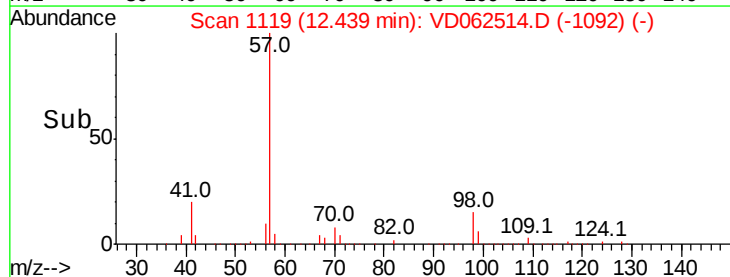
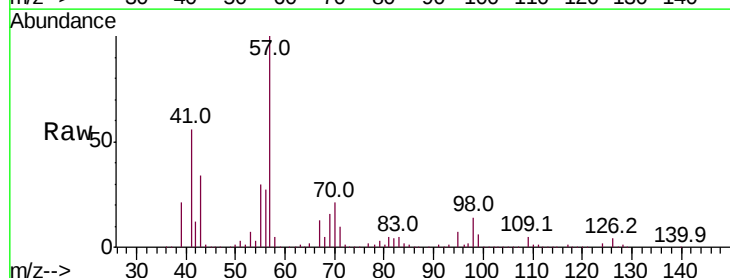
Manual Integrations
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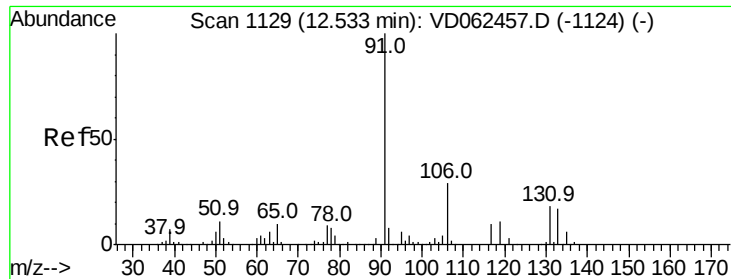
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.44 min Scan# 1119
Delta R.T. 0.06 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	147177		
82	602.1	36.2	54.2#	
119	36.0	26.2	39.4	





#67

Ethyl Benzene

Concen: 13109.670 ug/l m

RT: 12.65 min Scan# 1140

Delta R.T. 0.11 min

Lab File: VD062514.D

Acq: 22 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

P-1(9.5-10.0)RE

Tot Ion: 91 Resp:63909268

Ion Ratio Lower Upper

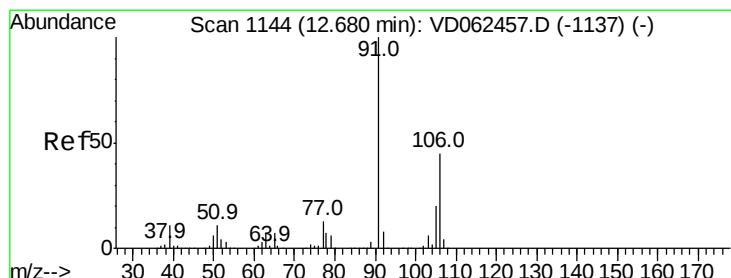
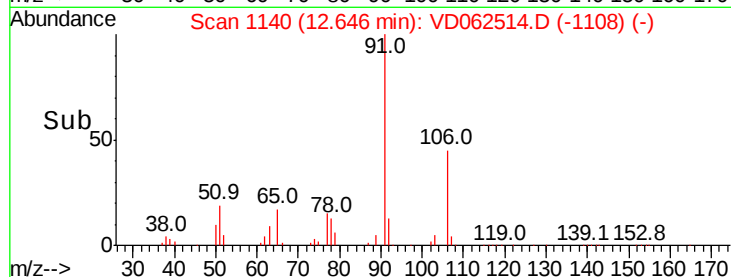
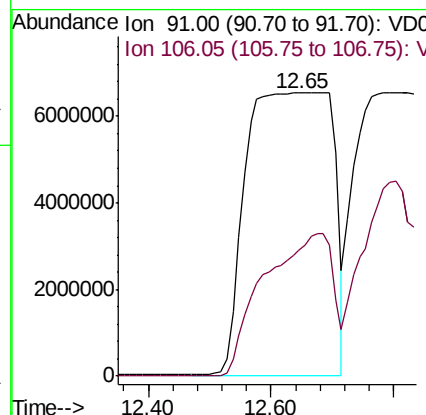
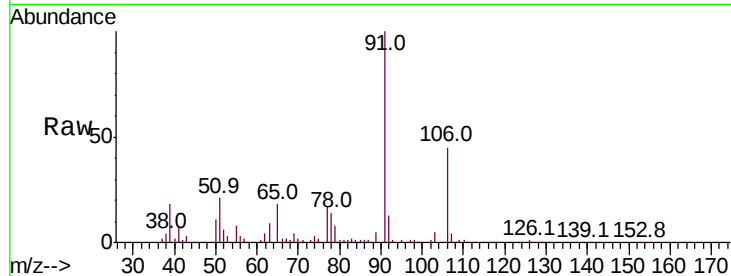
91 100

106 44.7 24.7 37.1#

Manual Integrations
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#68

m/p-Xylenes

Concen: 15958.849 ug/l m

RT: 12.80 min Scan# 1156

Delta R.T. 0.12 min

Lab File: VD062514.D

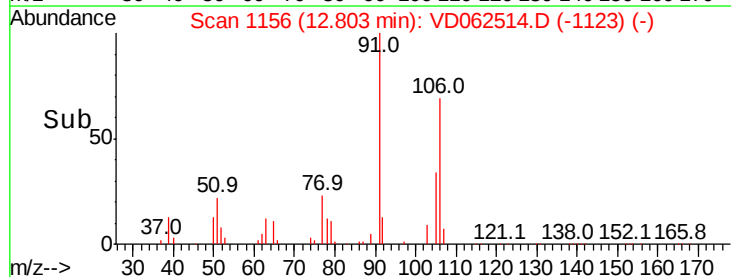
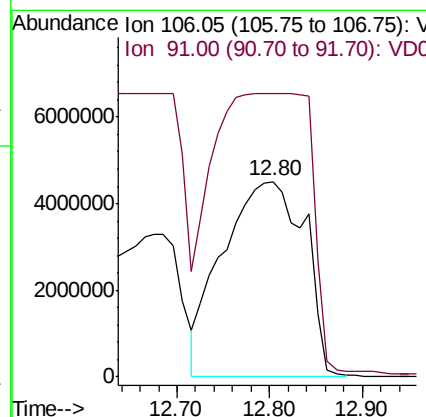
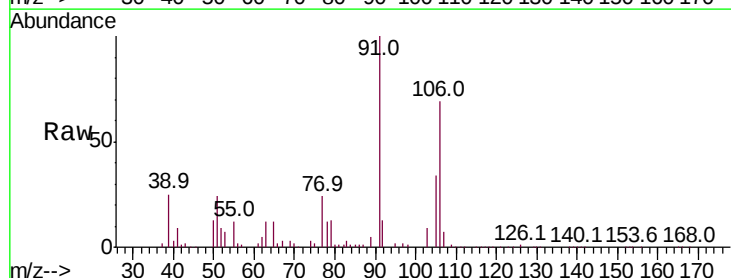
Acq: 22 May 2019 20:23

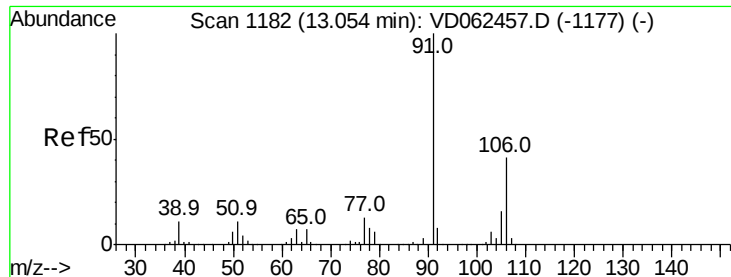
Tgt Ion:106 Resp:27926765

Ion Ratio Lower Upper

106 100

91 144.8 164.0 246.0#





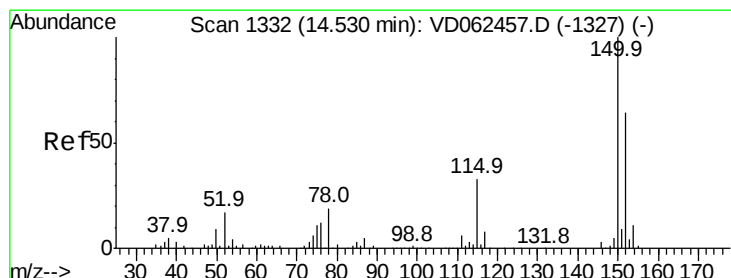
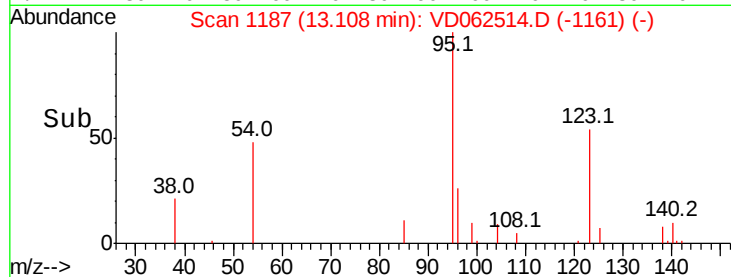
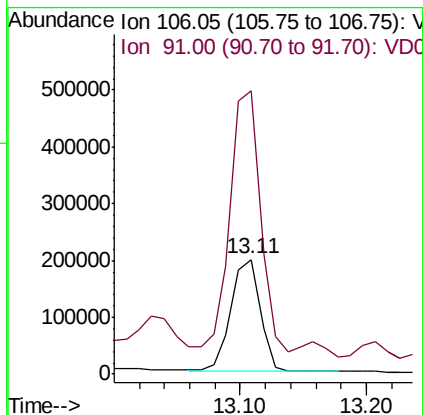
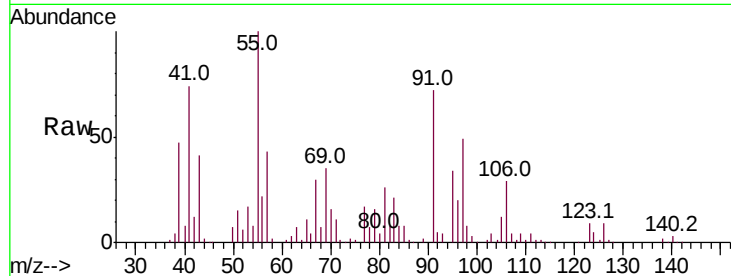
#69
o-Xylene
Concen: 191.884 ug/l
RT: 13.11 min Scan# 1187
Delta R.T. 0.05 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Instrument :
MSVOA_D
ClientSampled :
P-1(9.5-10.0)RE

Tot Ion:106 Resp: 316819
Ion Ratio Lower Upper
106 100
91 246.9 106.7 319.9

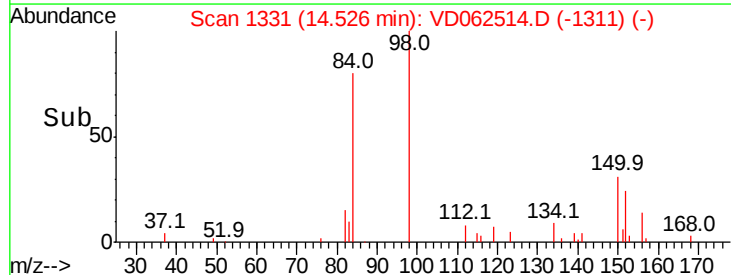
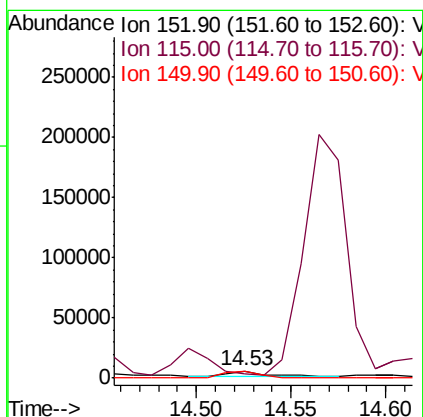
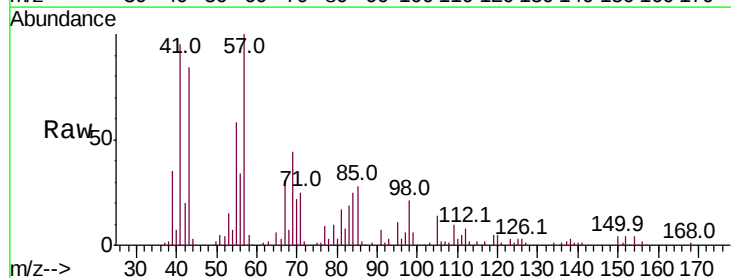
Manual Integrations
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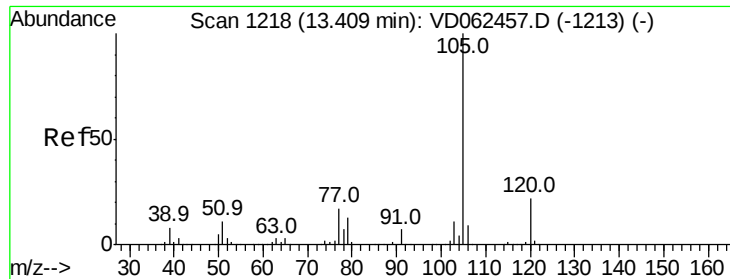
MMDadoda
5/23/2019 11:21:58 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. -0.00 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Tgt Ion:152 Resp: 6555
Ion Ratio Lower Upper
152 100
115 58.6 30.9 92.7
150 102.7 0.0 314.8





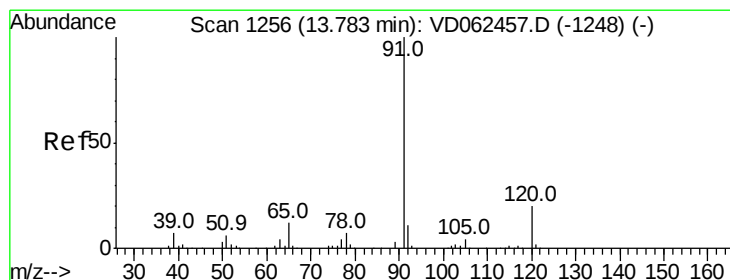
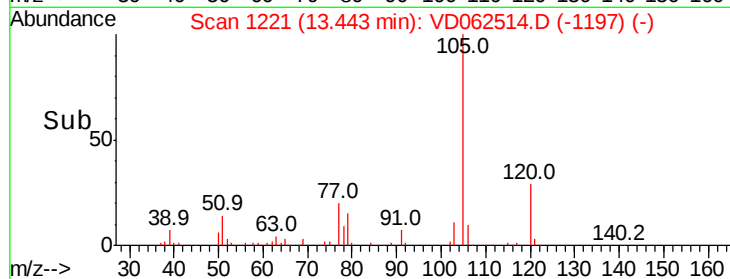
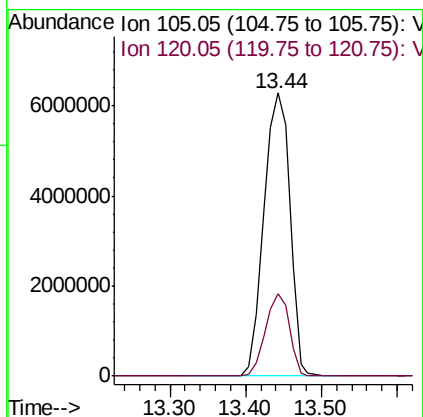
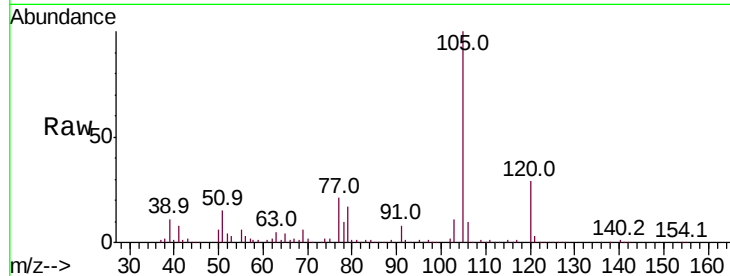
#73
Isopropylbenzene
Concen: 36345.911 ug/l
RT: 13.44 min Scan# 1221
Delta R.T. 0.03 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Instrument :
MSVOA_D
ClientSampleId :
P-1(9.5-10.0)RE

Tot Ion:105 Resp:15017638
Ion Ratio Lower Upper
105 100
120 29.2 12.0 36.1

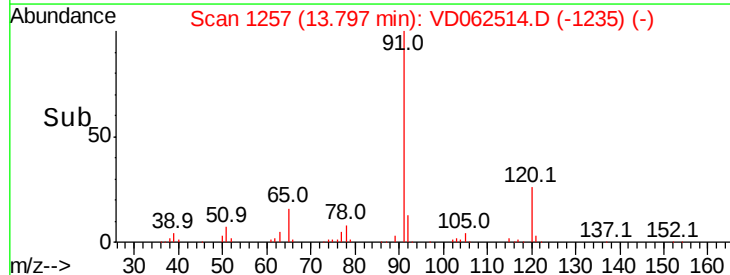
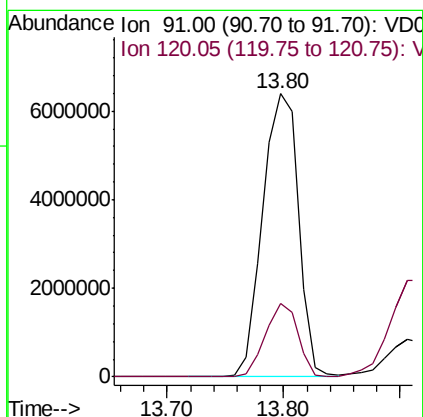
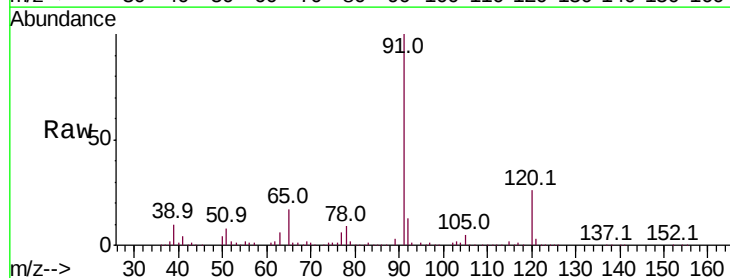
Manual Integrations
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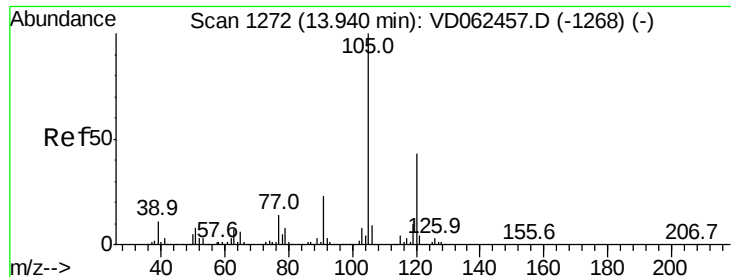
MMDadoda
5/23/2019 11:21:58 AM



#78
n-propylbenzene
Concen: 28215.710 ug/l
RT: 13.80 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Tgt Ion: 91 Resp:13504256
Ion Ratio Lower Upper
91 100
120 25.9 11.1 33.1





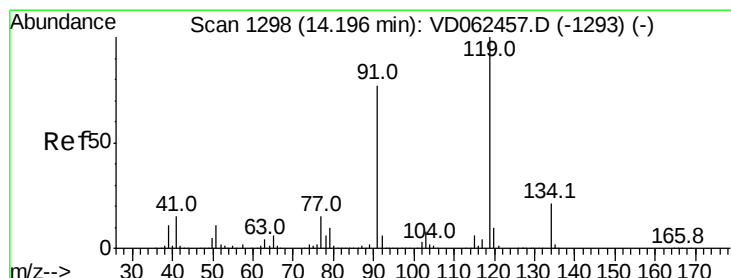
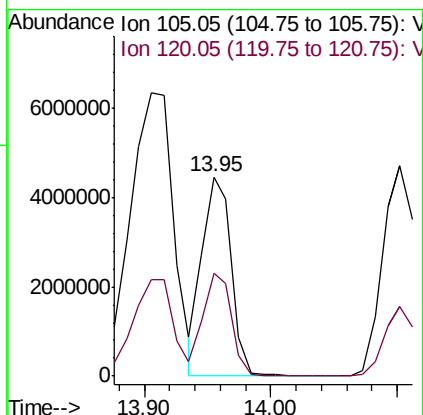
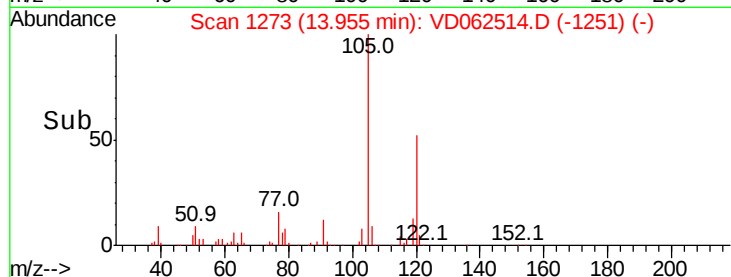
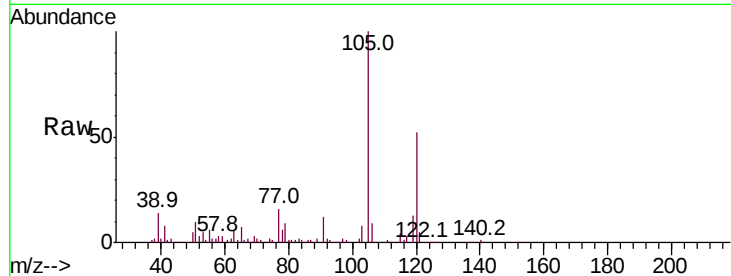
#80
 1,3,5-Trimethylbenzene
 Concen: 19926.093 ug/l
 RT: 13.95 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: VD062514.D
 Acq: 22 May 2019 20:23

Instrument :
 MSVOA_D
 ClientSampleId :
 P-1(9.5-10.0)RE

Tot Ion:105 Resp: 7128707
 Ion Ratio Lower Upper
 105 100
 120 51.6 24.0 72.0

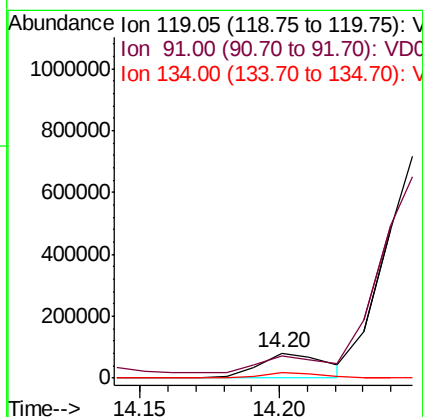
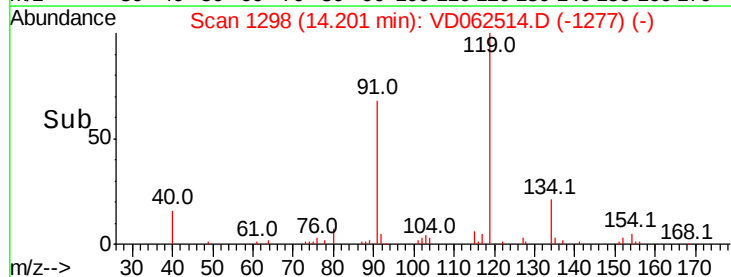
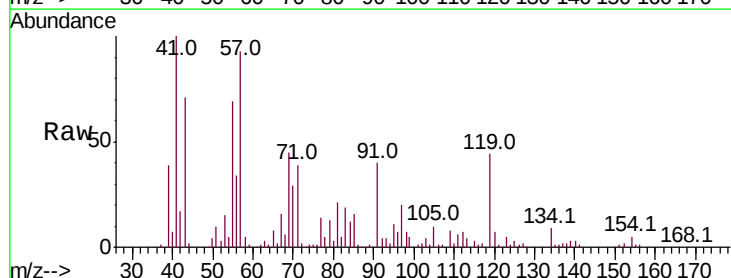
Manual Integrations
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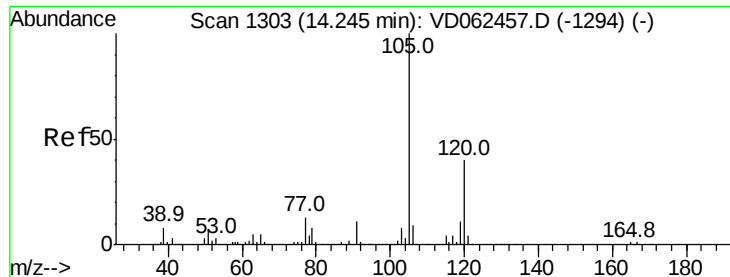
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#83
 tert-Butylbenzene
 Concen: 346.360 ug/l m
 RT: 14.20 min Scan# 1298
 Delta R.T. 0.00 min
 Lab File: VD062514.D
 Acq: 22 May 2019 20:23

Tgt Ion:119 Resp: 137449
 Ion Ratio Lower Upper
 119 100
 91 91.0 34.2 102.6
 134 20.4 12.0 36.0





#84

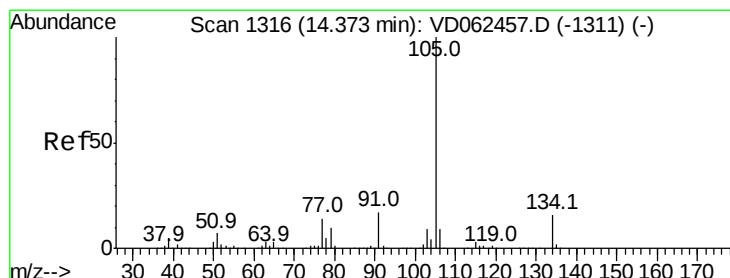
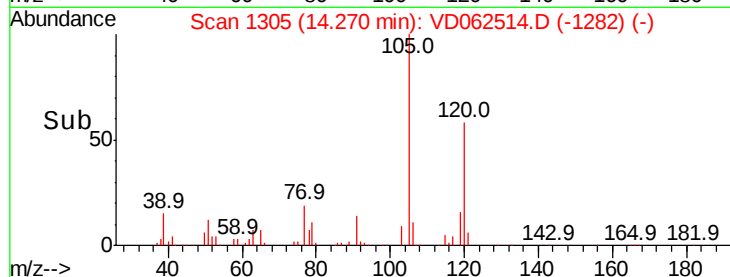
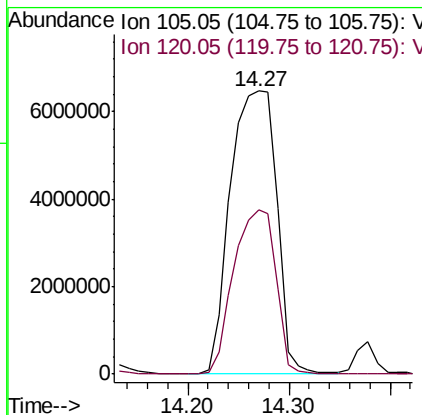
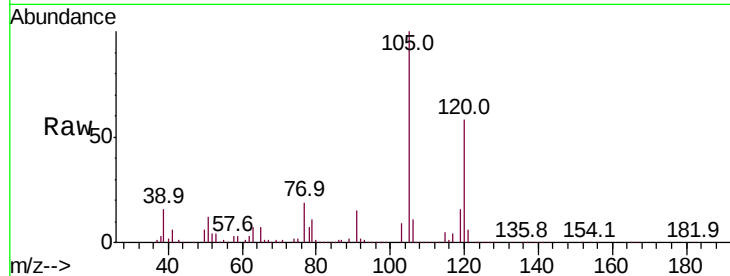
1,2,4-Trimethylbenzene
Concen: 56244.182 ug/l
RT: 14.27 min Scan# 1305
Delta R.T. 0.02 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Instrument :
MSVOA_D
ClientSampled :
P-1(9.5-10.0)RE

Tot Ion:105 Resp:20618294
Ion Ratio Lower Upper
105 100
120 58.1 23.1 69.2

Manual Integrations
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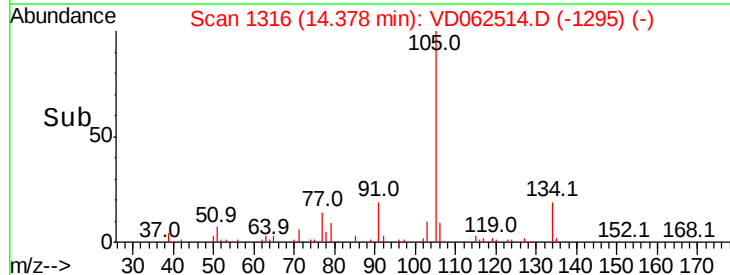
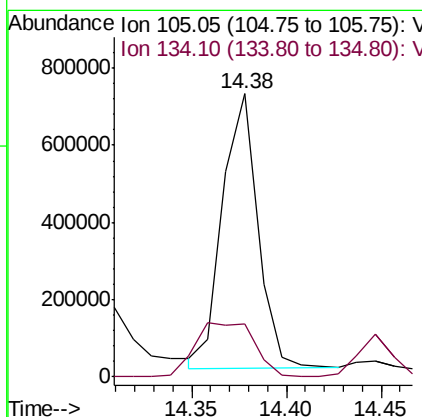
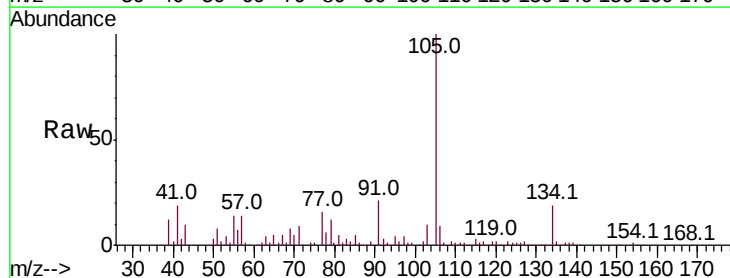
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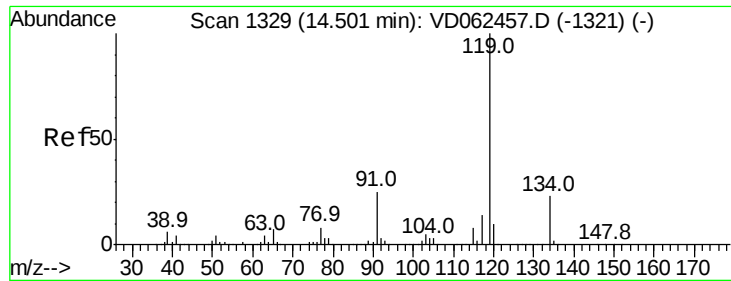


#85

sec-Butylbenzene
Concen: 2202.058 ug/l
RT: 14.38 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Tgt Ion:105 Resp: 911186
Ion Ratio Lower Upper
105 100
134 18.8 8.9 26.7





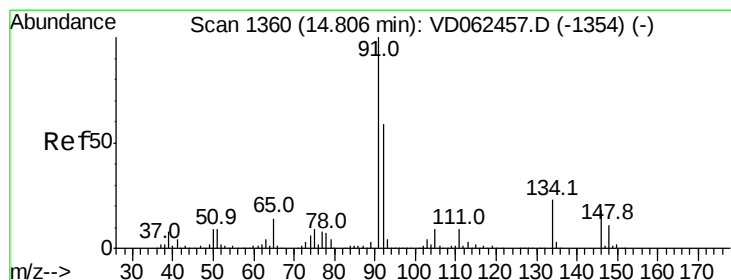
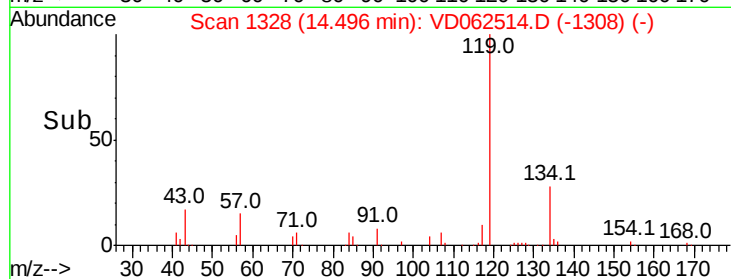
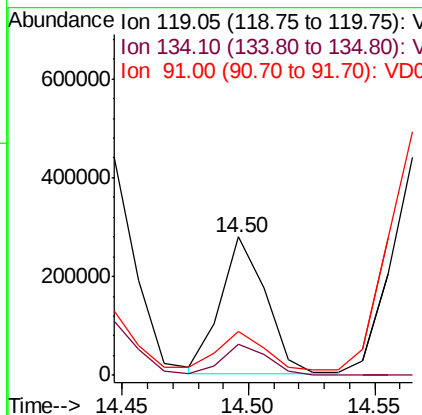
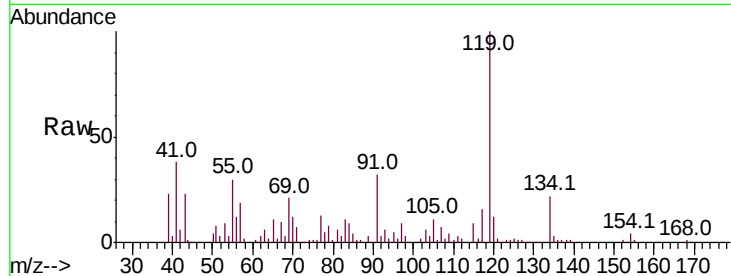
#86
p-Isopropyltoluene
Concen: 929.824 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.00 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Instrument :
MSVOA_D
ClientSampleId :
P-1(9.5-10.0)RE

Tot Ion	Ratio	Resp	Lower	Upper
119	100	348671		
134	22.1	12.8	38.3	
91	31.8	10.7	32.1	

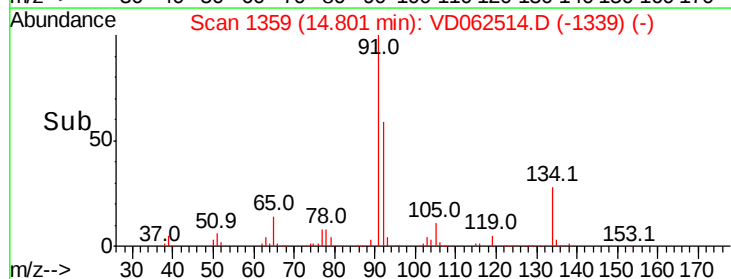
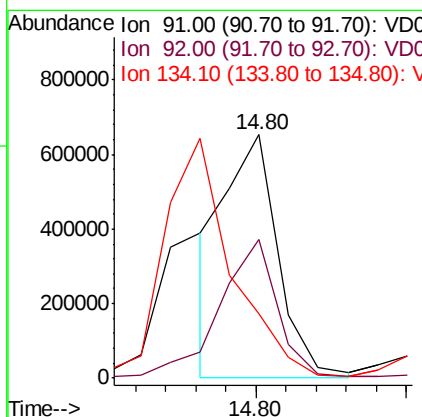
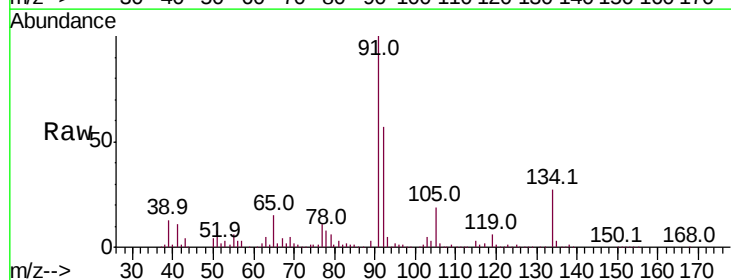
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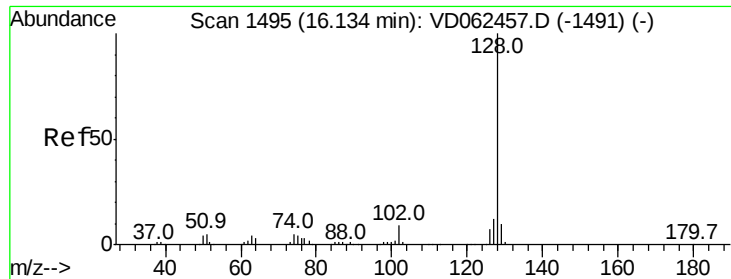
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#89
n-Butylbenzene
Concen: 2247.294 ug/l m
RT: 14.80 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	813280		
92	57.0	30.3	91.0	
134	26.7	14.5	43.6	





#95
Naphthalene
Concen: 3010.313 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VD062514.D
Acq: 22 May 2019 20:23

Instrument :
MSVOA_D
ClientSampleId :
P-1(9.5-10.0)RE

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.7	9.8	14.8
129	10.9	8.8	13.2

Manual Integrations
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5/23/2019 11:21:58 AM

