

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061419\
 Data File : VD062713.D
 Acq On : 14 Jun 2019 16:12
 Operator : VA/AP
 Sample : K3366-01RE
 Misc : 5.03g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOILRE

Manual Integrations
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 6/18/2019 1:07:58 AM

Quant Time: Jun 15 05:24:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	505411	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	714538	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	414693	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	100078	50.00	ug/l	0.00

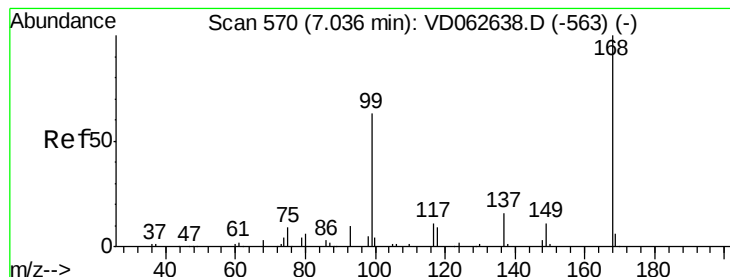
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	314666	43.15	ug/l	0.01
Spiked Amount	50.000		Recovery	=	86.30%	
35) Dibromofluoromethane	6.93	113	294336	39.06	ug/l	0.01
Spiked Amount	50.000		Recovery	=	78.12%	
50) Toluene-d8	10.41	98	344483	21.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.46%	
62) 4-Bromofluorobenzene	13.55	95	127489	17.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	34.48%	

Target Compounds

						Qvalue
16) Acetone	3.23	43	226959	169.947	ug/l	97
17) Carbon Disulfide	3.38	76	63762	4.844	ug/l	97
18) Methyl Acetate	3.65	43	23992	10.932	ug/l #	92
25) 2-Butanone	6.09	43	32431	24.892	ug/l #	92
31) Cyclohexane	6.97	56	24381	4.236	ug/l #	87
39) Methylcyclohexane	8.88	83	63860	9.663	ug/l	87
40) Benzene	7.46	78	54503	3.413	ug/l	94
52) Toluene	10.51	92	53660	4.999	ug/l	90
67) Ethyl Benzene	12.53	91	94691	5.822	ug/l	93
68) m/p-Xylenes	12.67	106	170788	29.871	ug/l	91
69) o-Xylene	13.05	106	79364	15.114	ug/l	92
73) Isopropylbenzene	13.41	105	9047	1.283	ug/l	91
78) n-propylbenzene	13.77	91	22473	2.603	ug/l	96
80) 1,3,5-Trimethylbenzene	13.94	105	56882	9.124	ug/l	98
84) 1,2,4-Trimethylbenzene	14.24	105	123087	19.941	ug/l	96
85) sec-Butylbenzene	14.37	105	12460	1.728	ug/l	91
86) p-Isopropyltoluene	14.49	119	11044	1.573	ug/l	86
89) n-Butylbenzene	14.80	91	20309m	3.216	ug/l	

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

Tot Ion:168 Resp: 505411

Ion Ratio Lower Upper

168 100

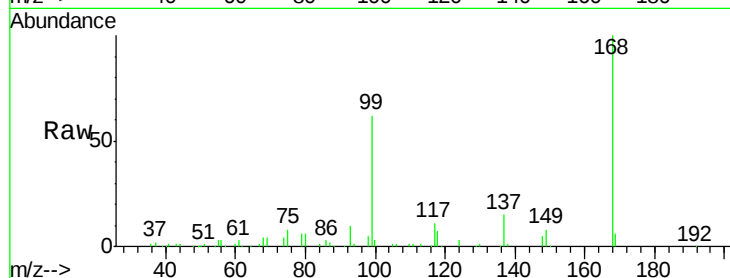
99 61.6 51.4 77.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

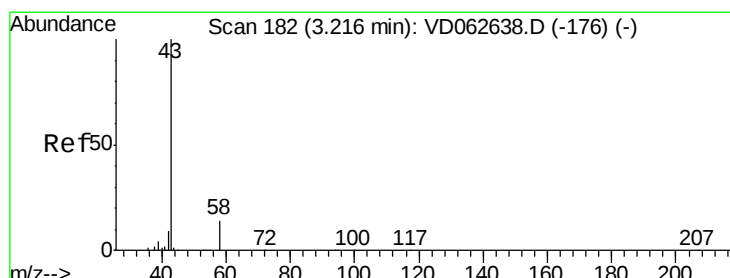
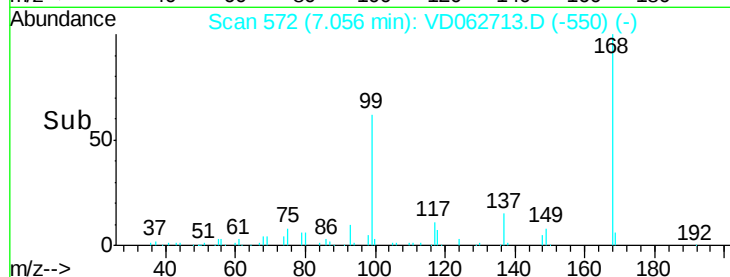
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 169.947 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062713.D

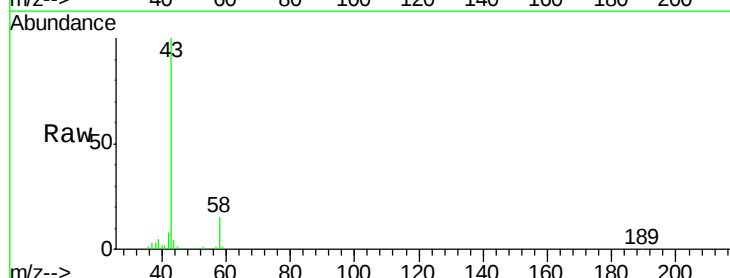
Acq: 14 Jun 2019 16:12

Tgt Ion: 43 Resp: 226959

Ion Ratio Lower Upper

43 100

58 14.7 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

80000

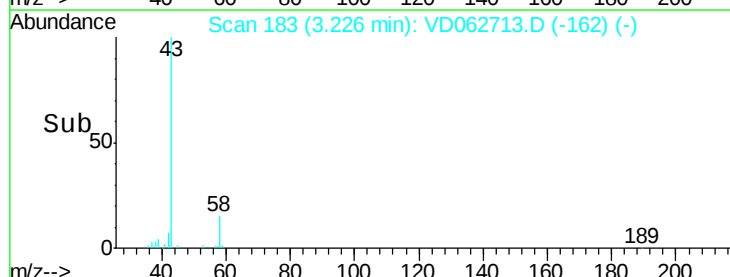
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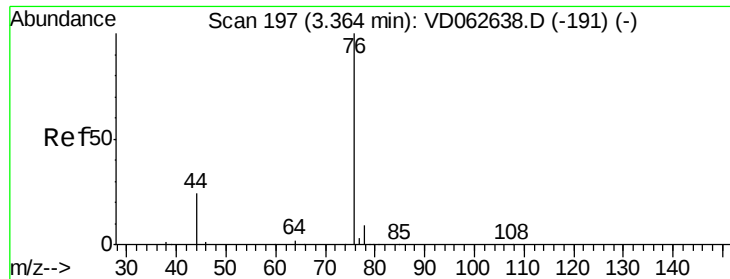
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Time-->





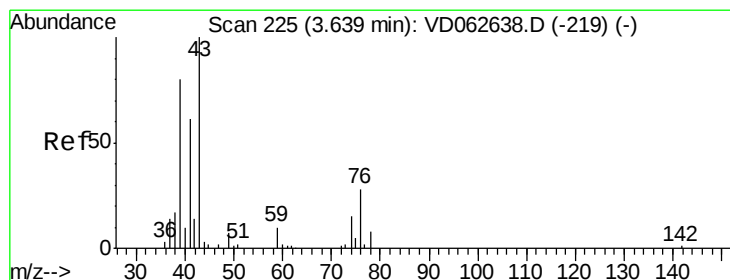
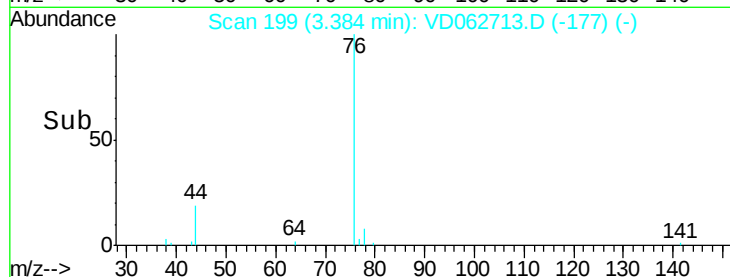
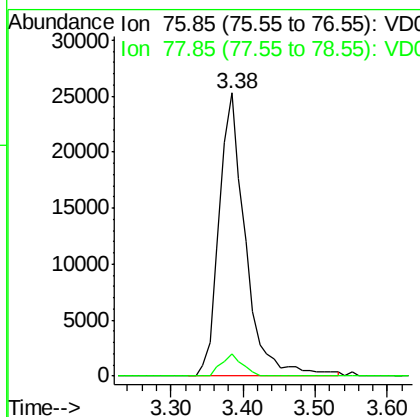
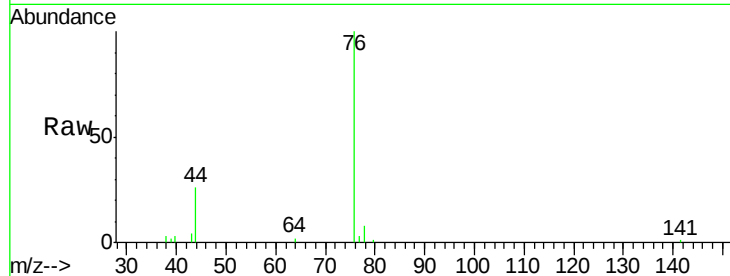
#17
Carbon Disulfide
Concen: 4.844 ug/l
RT: 3.38 min Scan# 199
Delta R.T. 0.02 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

Tot Ion: 76 Resp: 63762
Ion Ratio Lower Upper
76 100
78 7.7 7.0 10.4

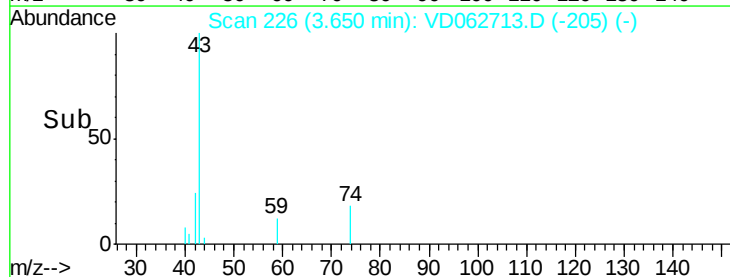
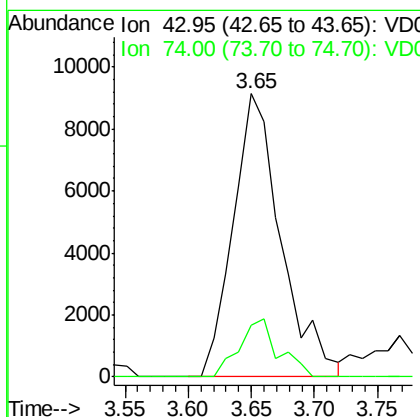
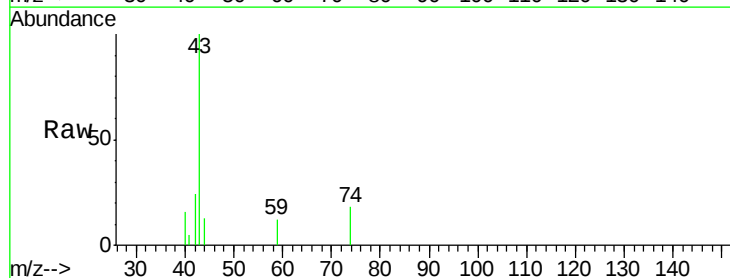
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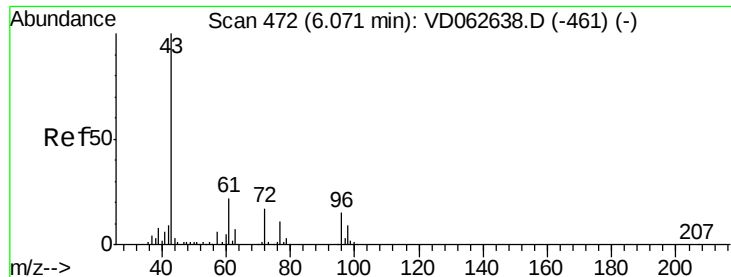
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#18
Methyl Acetate
Concen: 10.932 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion: 43 Resp: 23992
Ion Ratio Lower Upper
43 100
74 18.3 12.1 18.1#





#25

2-Butanone

Concen: 24.892 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.02 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

Tot Ion: 43 Resp: 32431

Ion Ratio Lower Upper

43 100

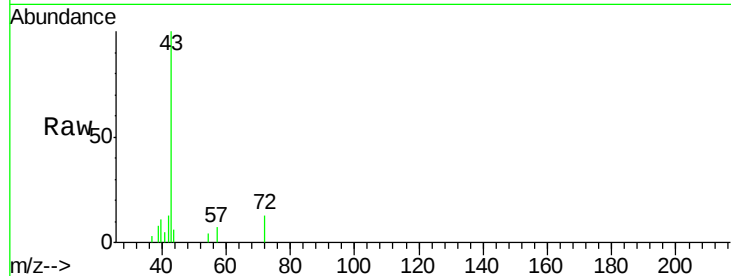
72 13.4 13.5 20.3#

Manual Integrations

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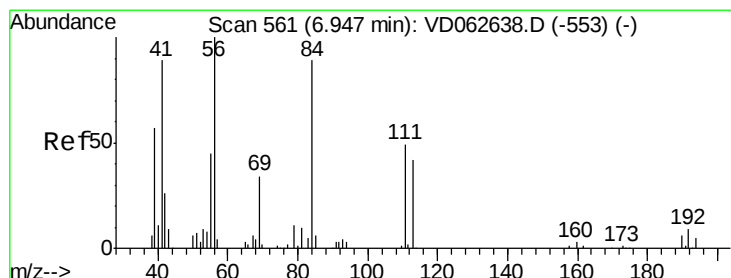
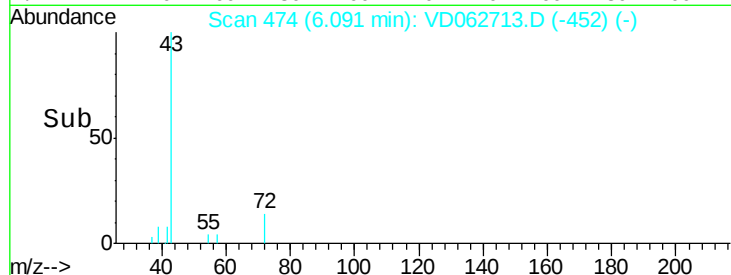
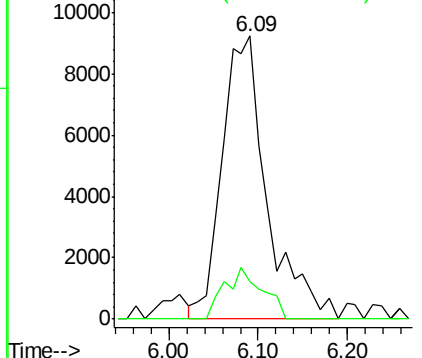
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 4.236 ug/l

RT: 6.97 min Scan# 563

Delta R.T. 0.02 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

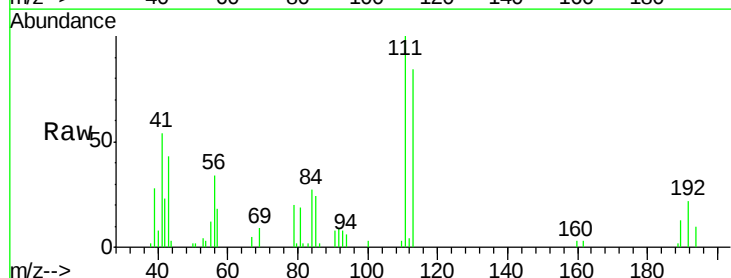
Tgt Ion: 56 Resp: 24381

Ion Ratio Lower Upper

56 100

69 25.5 26.8 40.2#

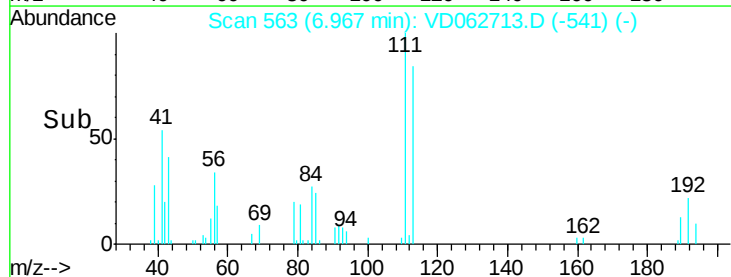
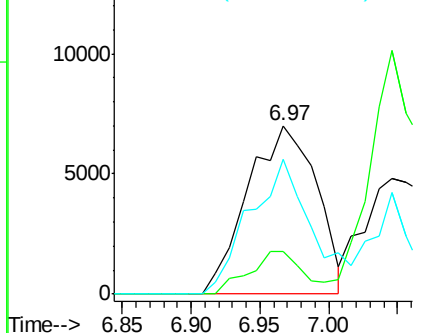
84 80.3 73.9 110.9

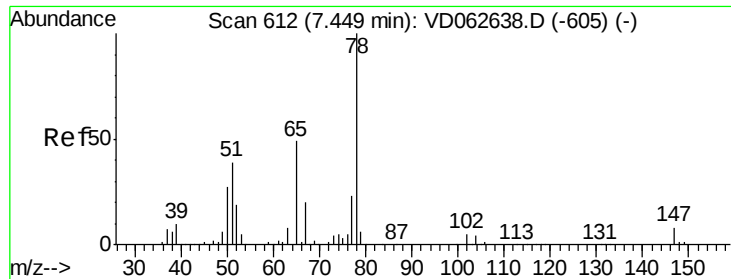


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





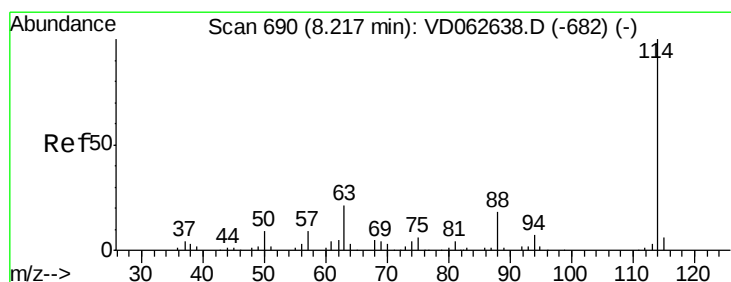
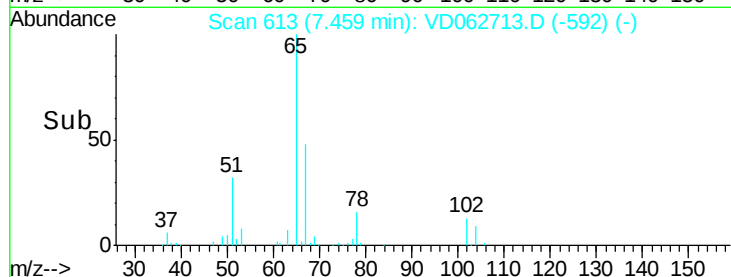
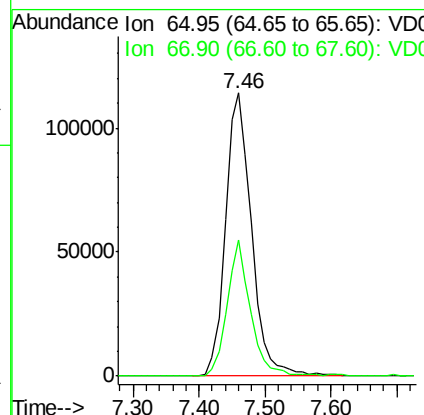
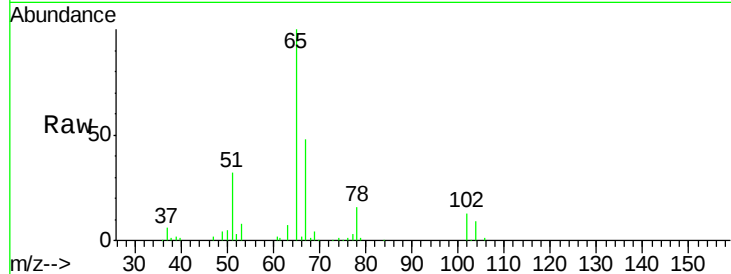
#33
 1,2-Dichloroethane-d4
 Concen: 43.146 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.01 min
 Lab File: VD062713.D
 Acq: 14 Jun 2019 16:12

Instrument :
 MSVOA_D
 ClientSampled :
 OILY-SOILRE

Tot Ion: 65 Resp: 314666
 Ion Ratio Lower Upper
 65 100
 67 48.1 0.0 81.8

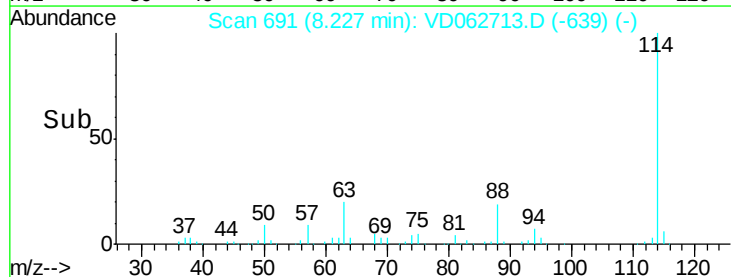
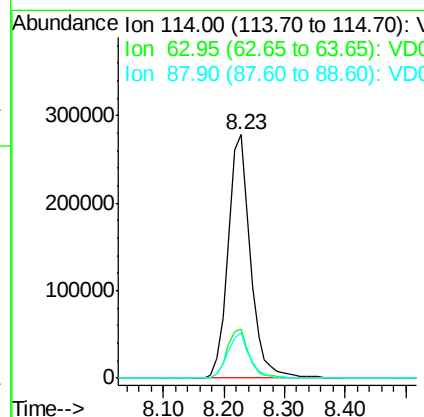
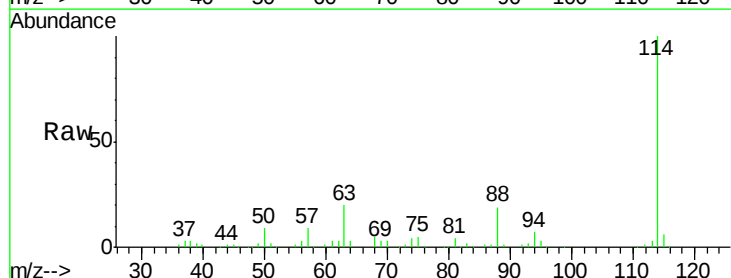
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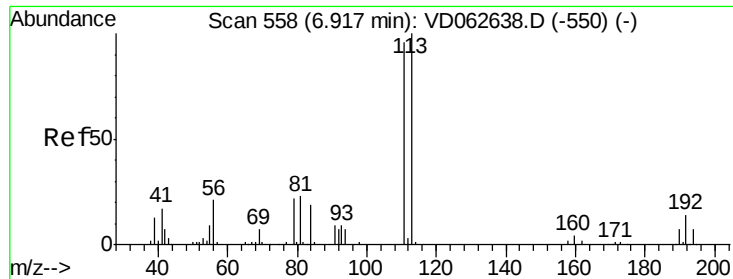
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD062713.D
 Acq: 14 Jun 2019 16:12

Tgt Ion: 114 Resp: 714538
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.4
 88 18.5 0.0 36.8





#35

Dibromofluoromethane

Concen: 39.059 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

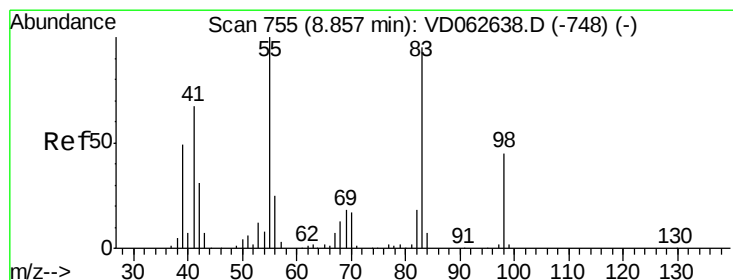
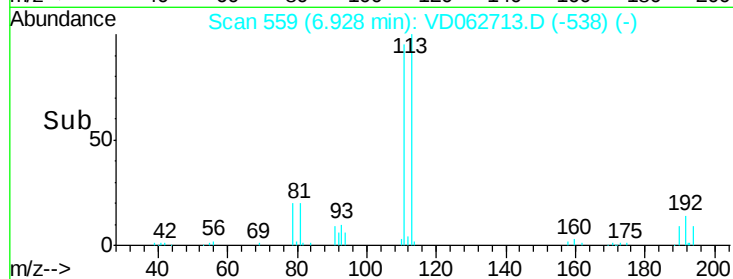
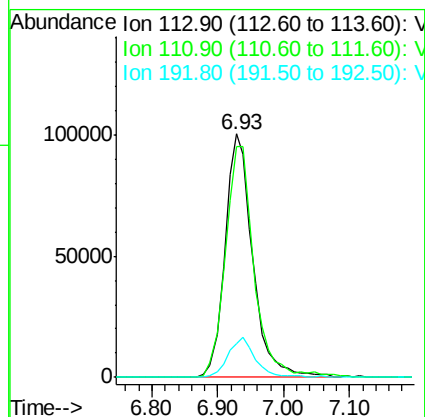
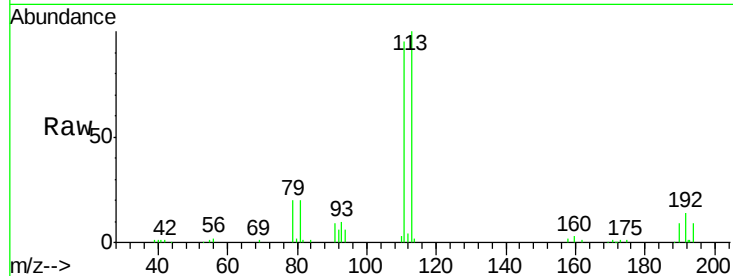
ClientSampleId :

OILY-SOILRE

Tot Ion:	113	Resp:	294336
Ion Ratio	Lower	Upper	
113	100		
111	94.8	76.4	114.6
192	13.9	11.4	17.0

Manual Integrations
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#39

Methylcyclohexane

Concen: 9.663 ug/l

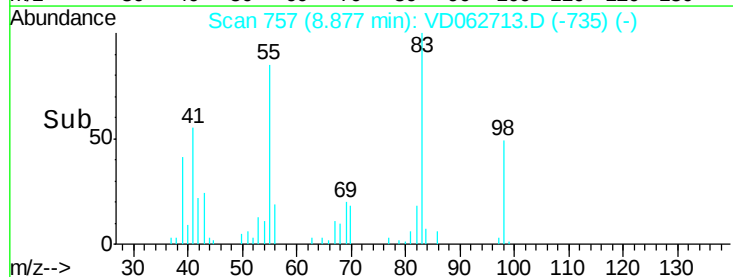
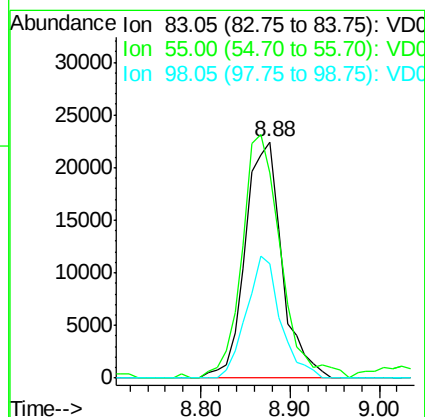
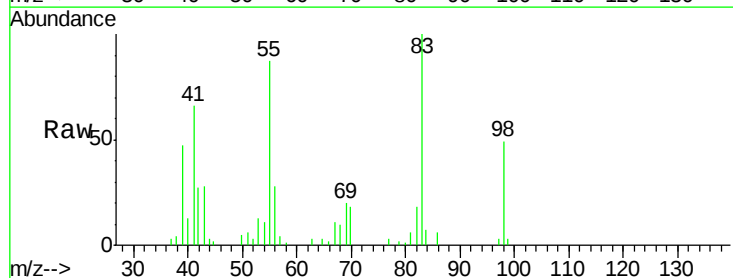
RT: 8.88 min Scan# 757

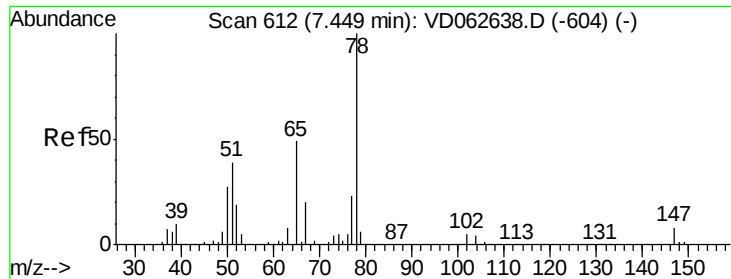
Delta R.T. 0.02 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Tgt Ion:	83	Resp:	63860
Ion Ratio	Lower	Upper	
83	100		
55	87.1	84.6	127.0
98	48.7	38.2	57.4





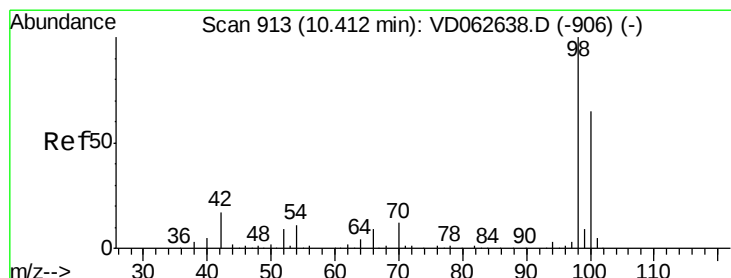
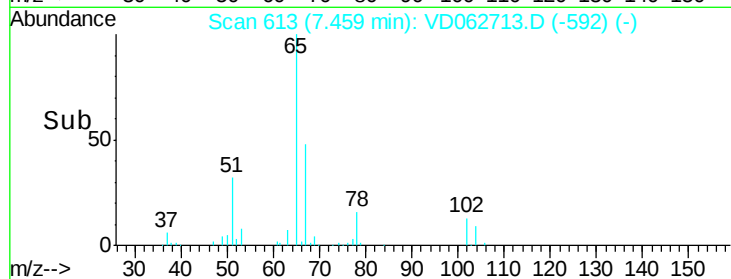
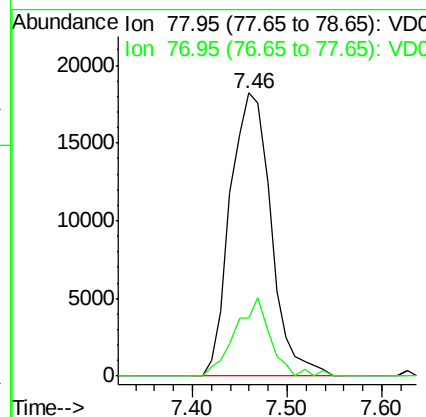
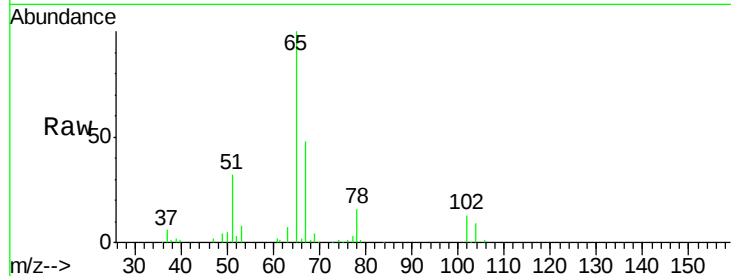
#40
Benzene
Concen: 3.413 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

Tot Ion: 78 Resp: 54503
Ion Ratio Lower Upper
78 100
77 20.4 18.6 28.0

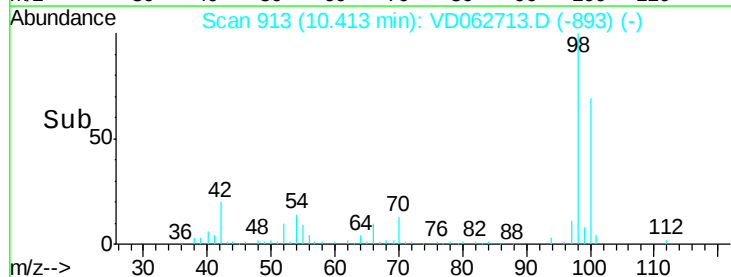
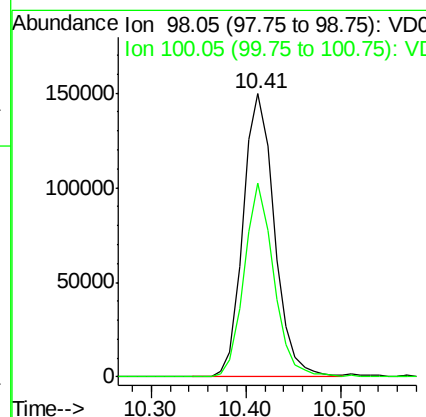
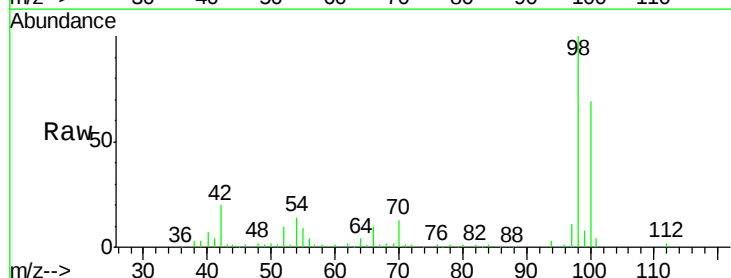
Manual Integrations
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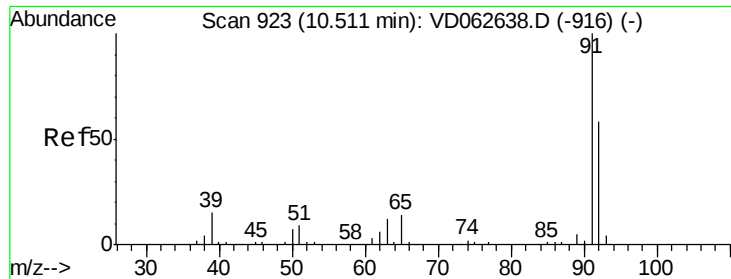
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#50
Toluene-d8
Concen: 21.730 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion: 98 Resp: 344483
Ion Ratio Lower Upper
98 100
100 68.5 52.1 78.1





#52

Toluene

Concen: 4.999 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.00 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

Tot Ion: 92 Resp: 53660

Ion Ratio Lower Upper

92 100

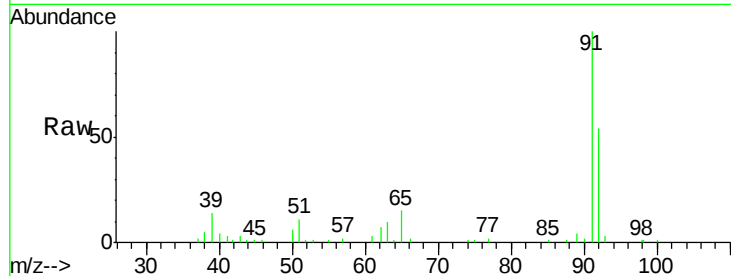
91 185.2 137.0 205.6

Manual Integrations

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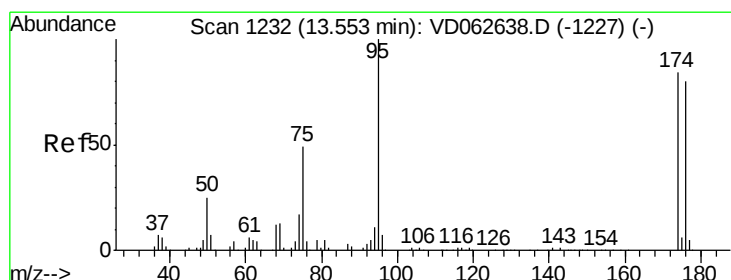
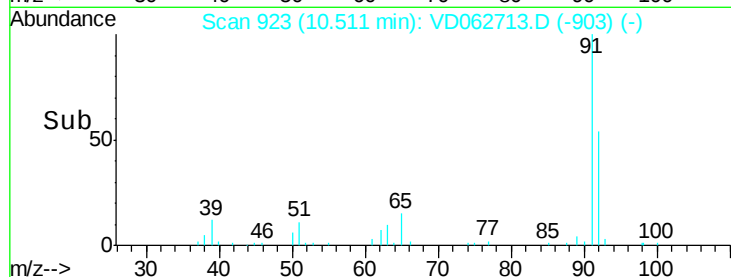
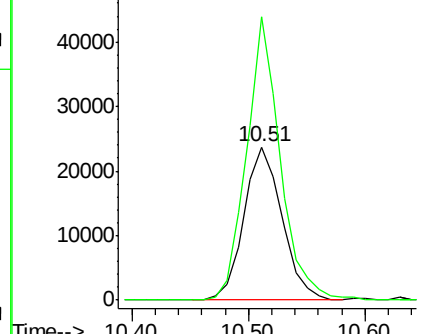
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Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 17.238 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

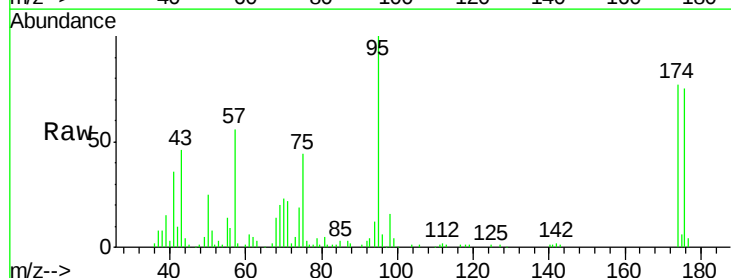
Tgt Ion: 95 Resp: 127489

Ion Ratio Lower Upper

95 100

174 76.8 0.0 167.0

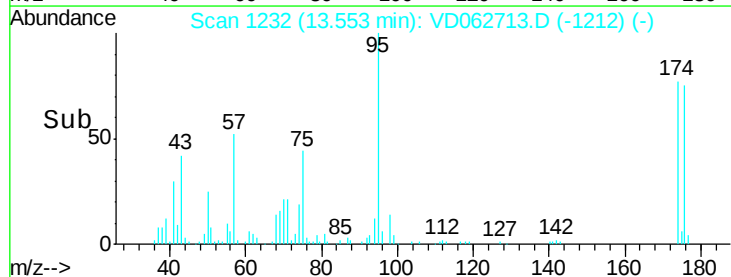
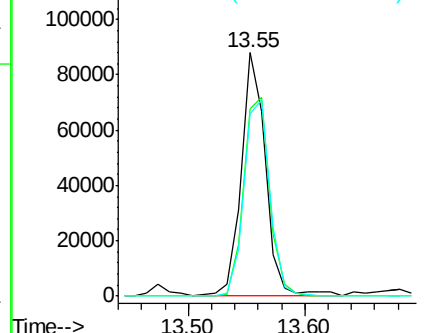
176 74.8 0.0 159.2

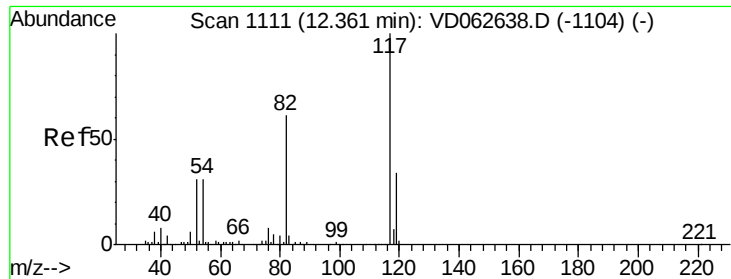


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





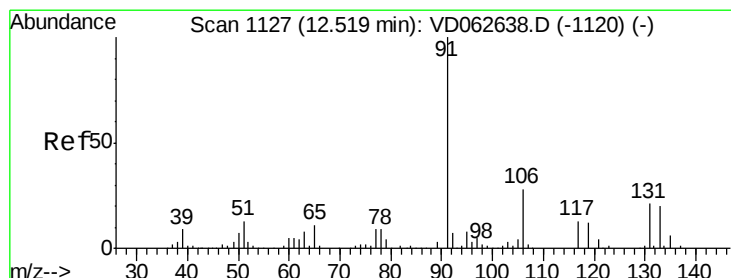
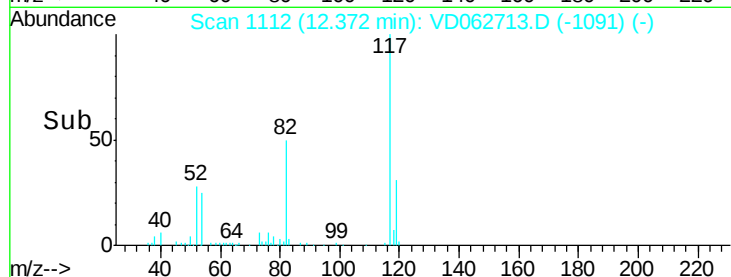
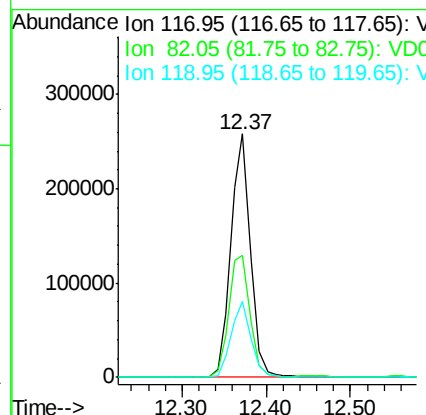
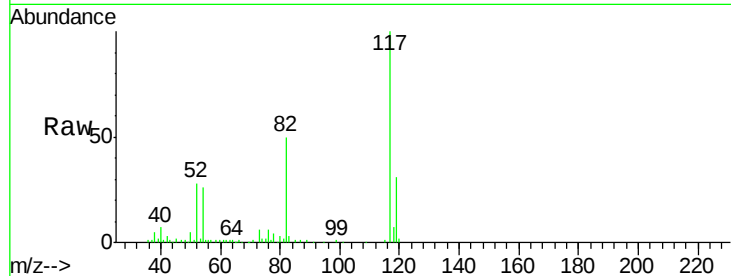
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

Tot Ion	Ratio	Resp	Lower	Upper
117	100	414693		
82	50.1	48.7	73.1	
119	31.4	27.0	40.6	

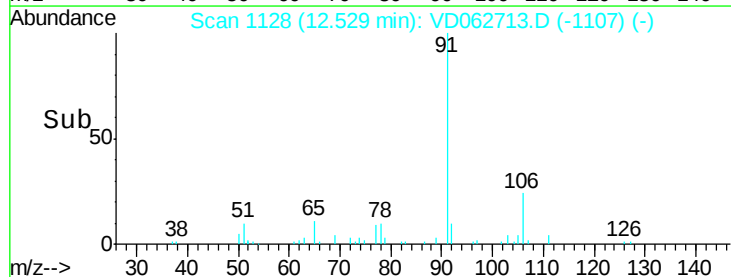
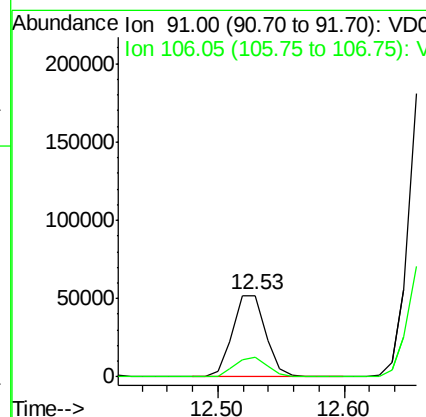
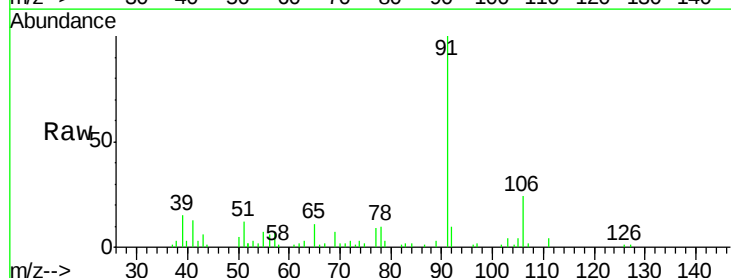
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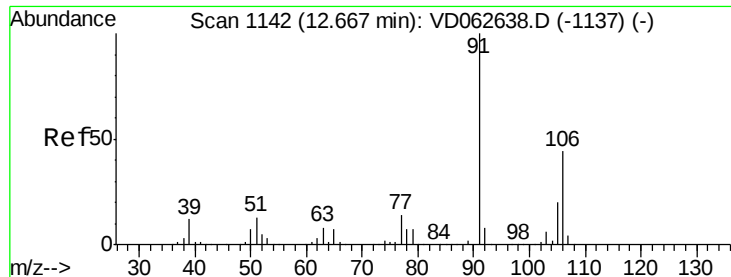
MMDadoda
6/18/2019 1:07:58 AM



#67
Ethyl Benzene
Concen: 5.822 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	94691		
106	23.7	22.1	33.1	





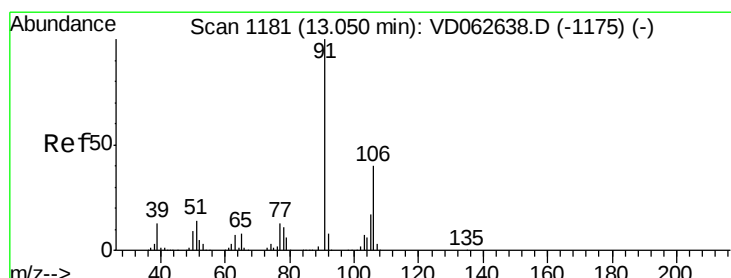
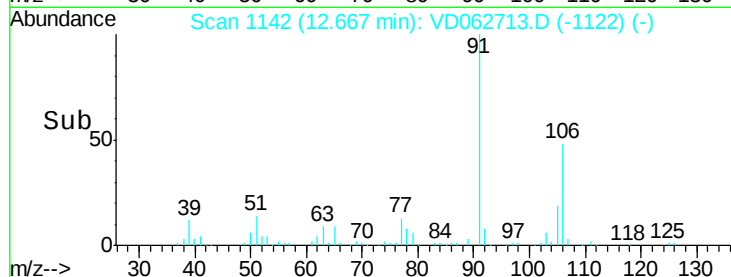
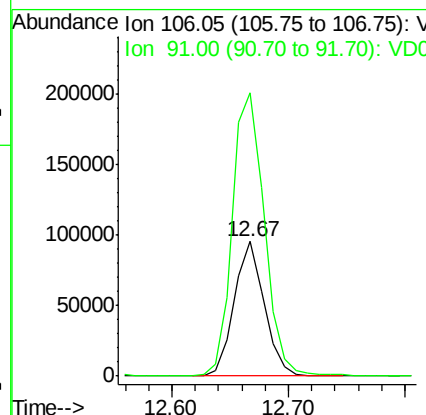
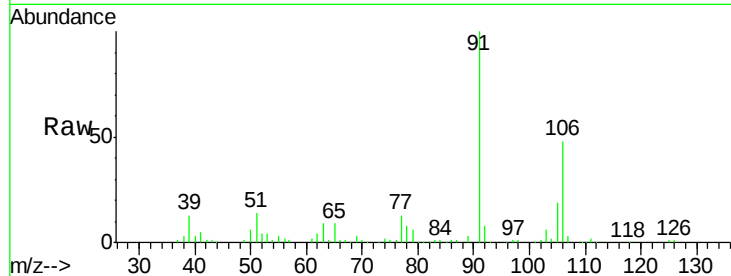
#68
m/p-Xylenes
Concen: 29.871 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

Tot Ion:106 Resp: 170788
Ion Ratio Lower Upper
106 100
91 210.0 180.2 270.4

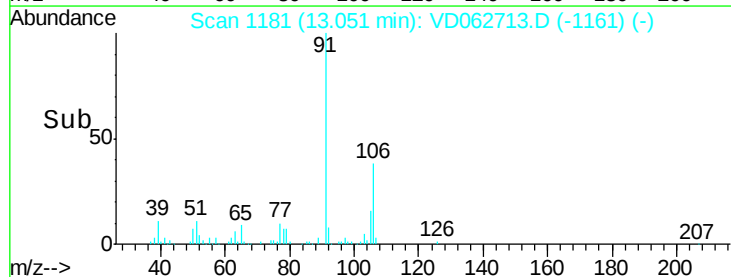
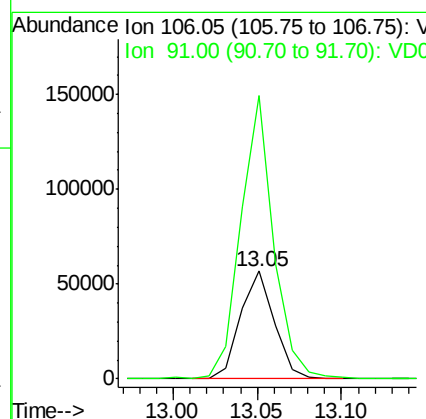
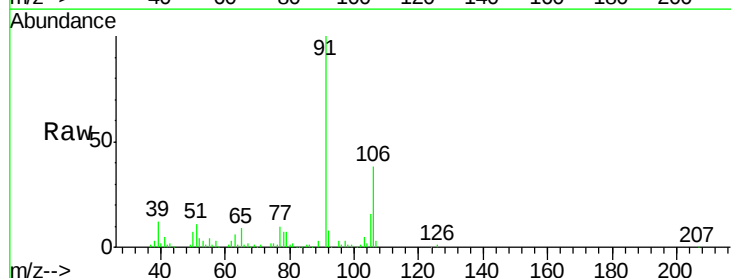
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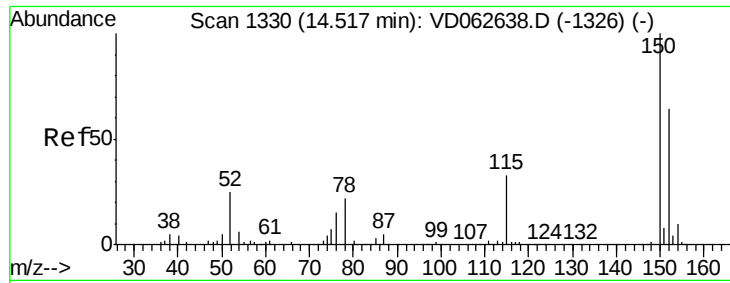
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6/18/2019 1:07:58 AM



#69
o-Xylene
Concen: 15.114 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion:106 Resp: 79364
Ion Ratio Lower Upper
106 100
91 262.4 124.1 372.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

Tot Ion:152 Resp: 100078

Ion Ratio Lower Upper

152 100

115 57.9 30.1 90.5

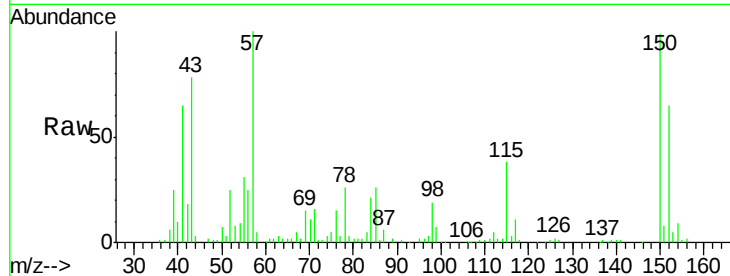
150 152.1 0.0 314.0

Manual Integrations

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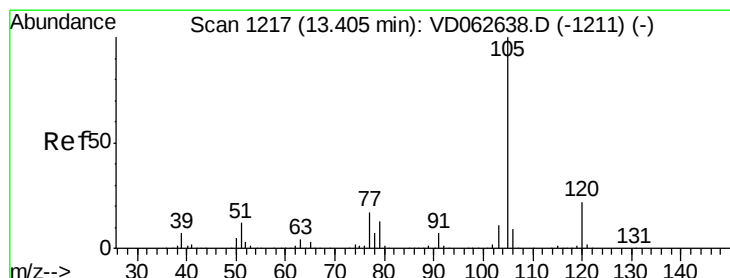
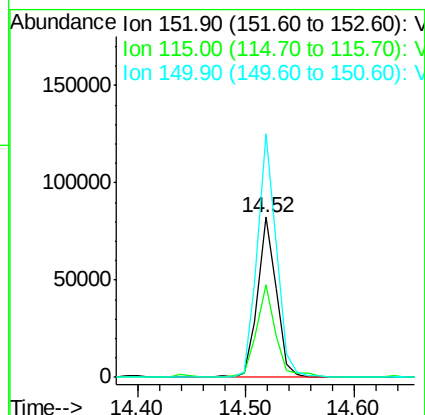
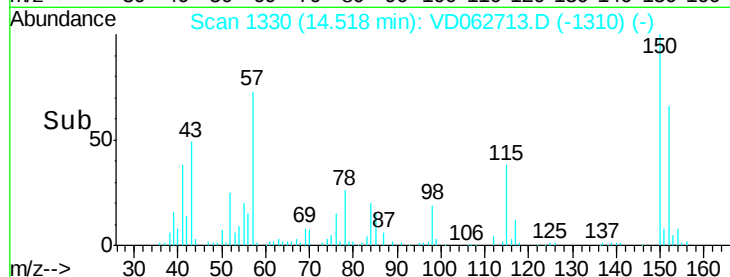
6/18/2019 1:07:58 AM



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 1.283 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD062713.D

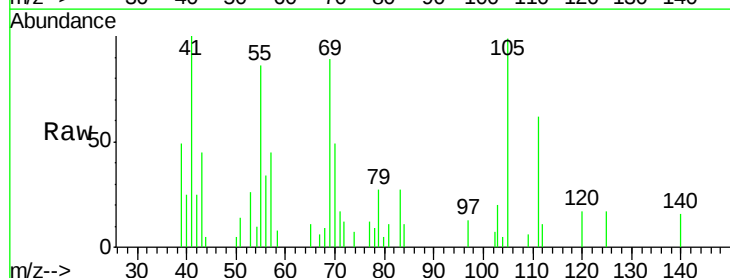
Acq: 14 Jun 2019 16:12

Tgt Ion:105 Resp: 9047

Ion Ratio Lower Upper

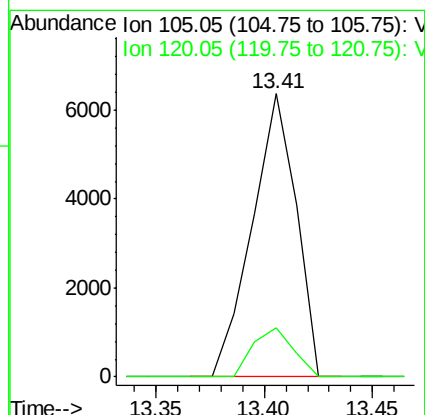
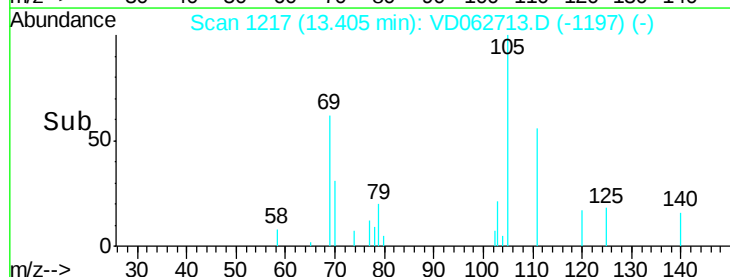
105 100

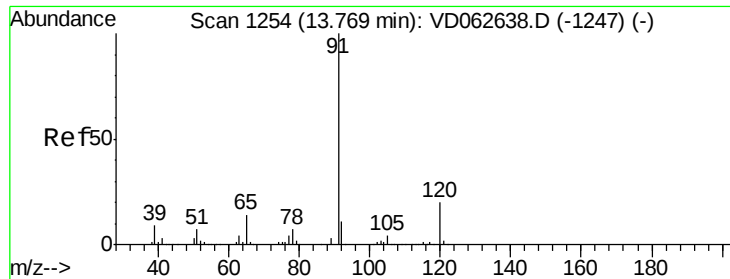
120 17.4 10.9 32.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 2.603 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

Tot Ion: 91 Resp: 22473

Ion Ratio Lower Upper

91 100

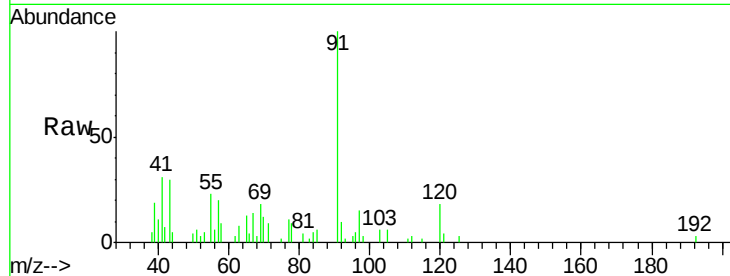
120 17.8 9.8 29.5

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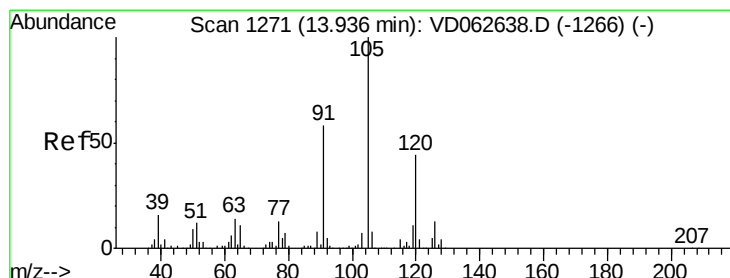
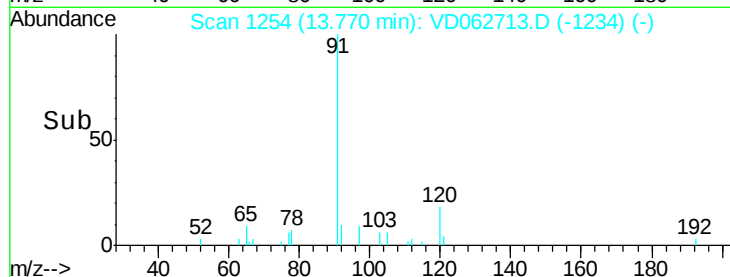
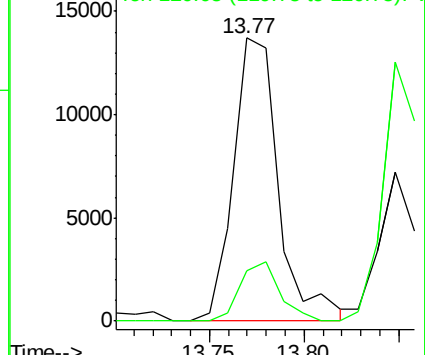
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V



#80

1,3,5-Trimethylbenzene

Concen: 9.124 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD062713.D

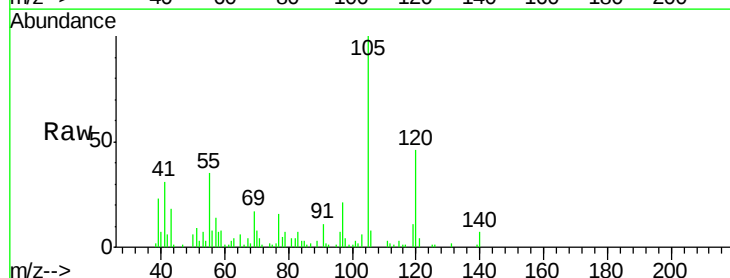
Acq: 14 Jun 2019 16:12

Tgt Ion:105 Resp: 56882

Ion Ratio Lower Upper

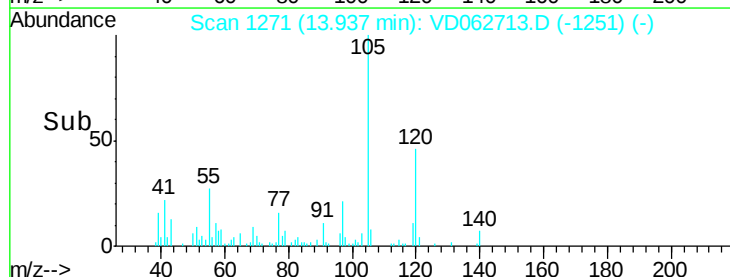
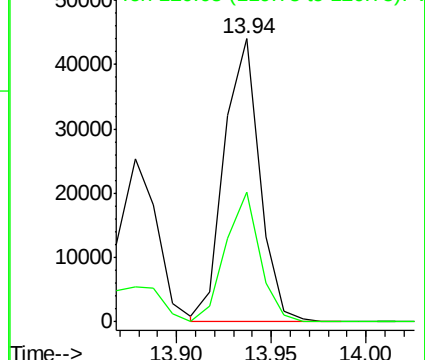
105 100

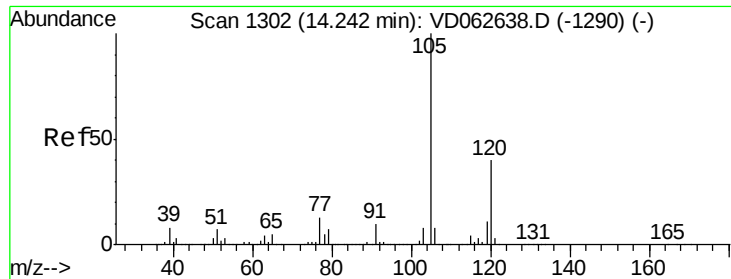
120 45.8 22.1 66.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





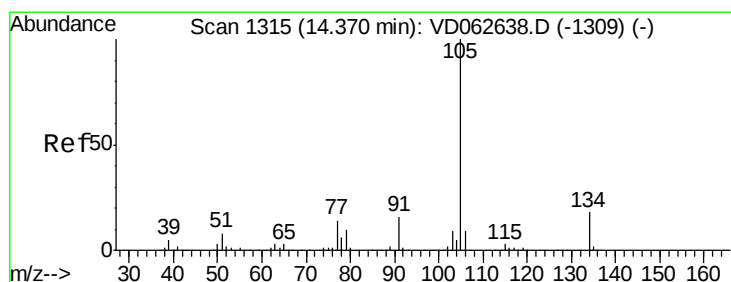
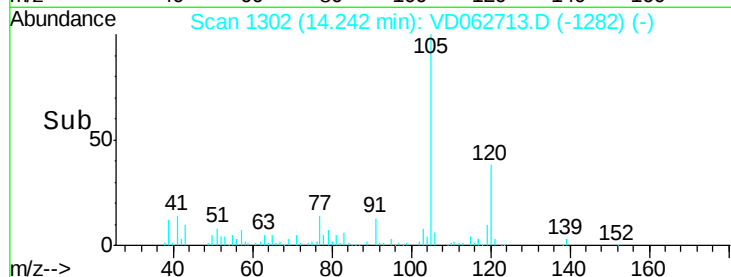
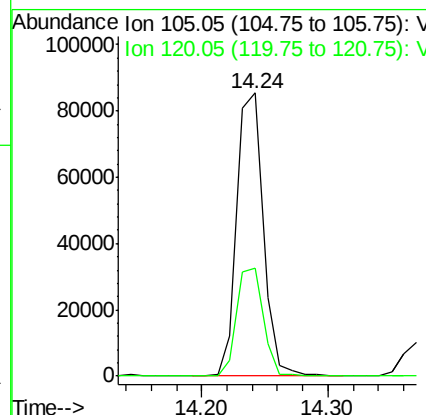
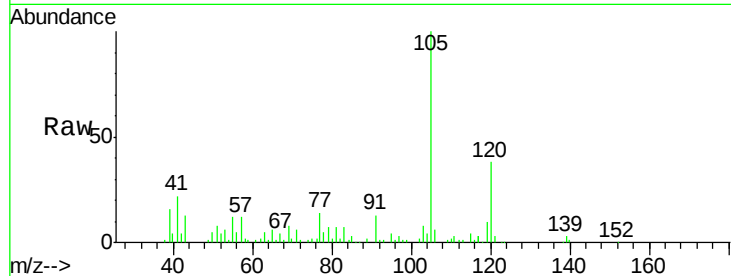
#84
 1,2,4-Trimethylbenzene
 Concen: 19.941 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062713.D
 Acq: 14 Jun 2019 16:12

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOILRE

Tot Ion	Ratio	Lower	Upper
105	100		
120	38.2	20.3	60.8

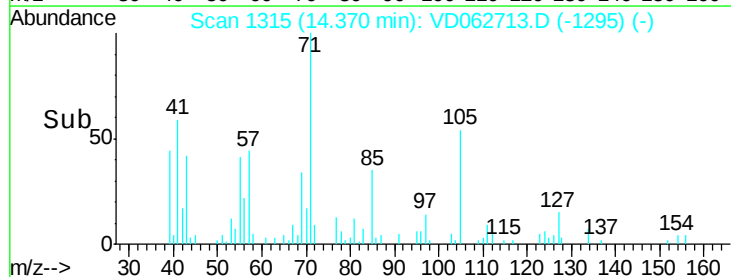
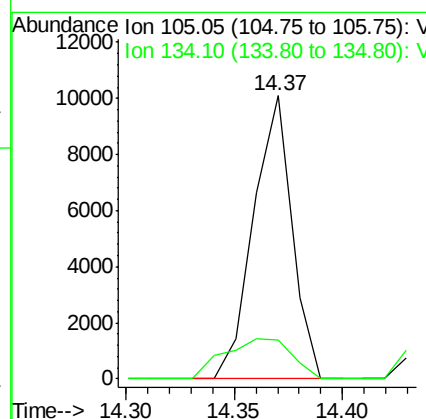
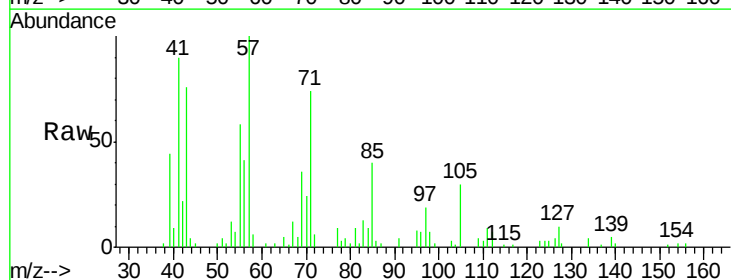
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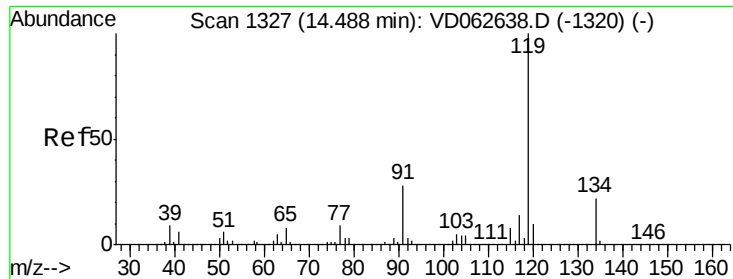
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 6/18/2019 1:07:58 AM



#85
 sec-Butylbenzene
 Concen: 1.728 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD062713.D
 Acq: 14 Jun 2019 16:12

Tgt Ion	Ratio	Lower	Upper
105	100		
134	13.5	8.8	26.2





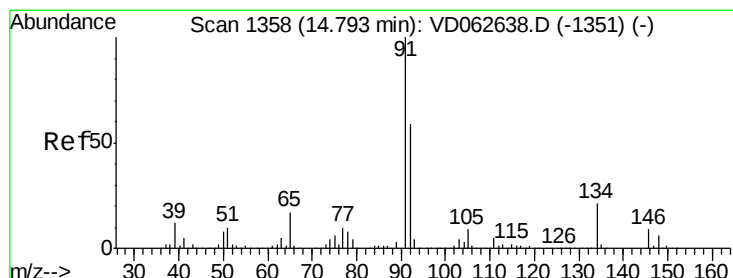
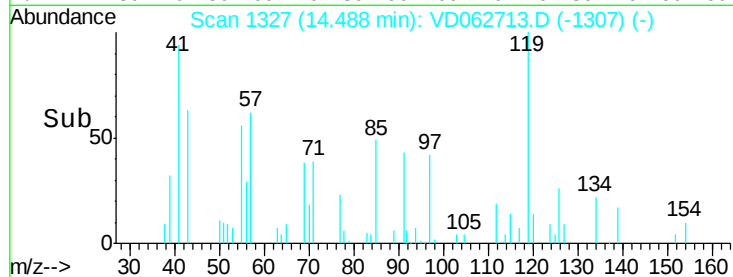
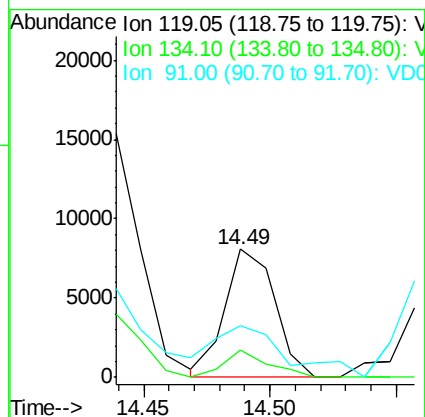
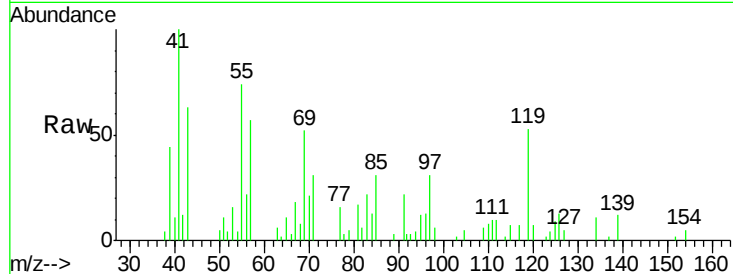
#86
p-Isopropyltoluene
Concen: 1.573 ug/l
RT: 14.49 min Scan# 1327
Delta R.T. 0.00 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

Tot Ion	Ratio	Lower	Upper
119	100		
134	21.2	10.9	32.6
91	40.7	13.9	41.6

Manual Integrations
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6/18/2019 1:07:58 AM



#89
n-Butylbenzene
Concen: 3.216 ug/l m
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.3	29.4	88.3
134	28.8	10.4	31.2

