

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058357.D
 Acq On : 23 Jun 2018 22:53
 Operator : VA/AP
 Sample : J3671-08
 Misc : 6.07g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-21-23-180621

Manual Integrations
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Quant Time: Jun 25 08:41:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	808861	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.71	114	1058228	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	920187	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	448030	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	430023	52.63	ug/l	0.03
Spiked Amount			Recovery	=	105.26%	
35) Dibromofluoromethane	5.58	113	426159	49.48	ug/l	0.03
Spiked Amount			Recovery	=	98.96%	
50) Toluene-d8	8.72	98	1059015	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	11.94	95	462326	54.31	ug/l	0.00
Spiked Amount			Recovery	=	108.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.57	62	3886566	917.24	ug/l	97
12) 1,1-Dichloroethene	2.58	96	160621	57.80	ug/l	97
16) Acetone	2.63	43	40831	36.54	ug/l #	87
20) Methylene Chloride	3.10	84	37044	8.77	ug/l	91
21) trans-1,2-Dichloroethene	3.41	96	540912m	178.10	ug/l	
24) 1,1-Dichloroethane	4.00	63	970832	70.15	ug/l	97
27) cis-1,2-Dichloroethene	4.83	96	33745245m	4446.36	ug/l	
30) Chloroform	5.34	83	60157	4.12	ug/l	99
39) Methylcyclohexane	7.30	83	63765	6.25	ug/l	94
40) Benzene	6.04	78	435063	17.45	ug/l	95
42) 1,2-Dichloroethane	6.15	62	60464	6.01	ug/l	94
44) Trichloroethene	7.00	130	156883	20.95	ug/l	90
52) Toluene	8.82	92	121772	8.58	ug/l	95
55) 1,1,2-Trichloroethane	9.47	97	109188	21.73	ug/l	91
65) Chlorobenzene	10.74	112	1160208	67.40	ug/l	99
68) m/p-Xylenes	11.02	106	47977	4.73	ug/l	91
73) Isopropylbenzene	11.78	105	54494	2.03	ug/l	90
78) n-propylbenzene	12.15	91	84313	2.44	ug/l	93
80) 1,3,5-Trimethylbenzene	12.32	105	180898	8.65	ug/l	96
84) 1,2,4-Trimethylbenzene	12.63	105	155797	6.86	ug/l	98
85) sec-Butylbenzene	12.76	105	76029	2.70	ug/l	94
87) 1,3-Dichlorobenzene	12.84	146	181975	13.05	ug/l	96
88) 1,4-Dichlorobenzene	12.93	146	338896	24.88	ug/l	97
89) n-Butylbenzene	13.20	91	122066	5.09	ug/l #	91
91) 1,2-Dichlorobenzene	13.20	146	625881	52.73	ug/l	99

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

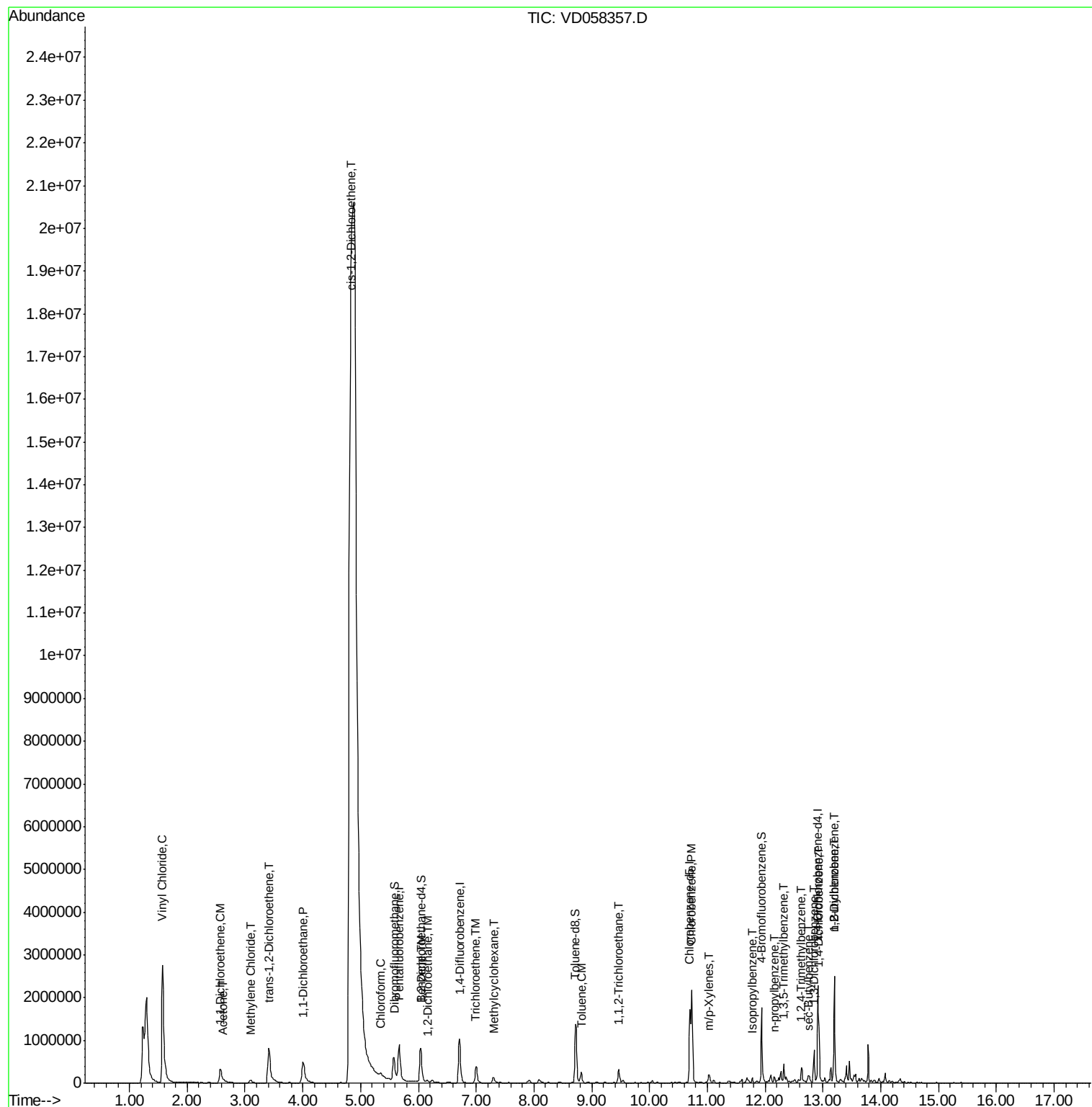
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062318\
Data File : VD058357.D
Acq On : 23 Jun 2018 22:53
Operator : VA/AP
Sample : J3671-08
Misc : 6.07g/5ml/MSVOA D/SOIL
ALS Vial : 20 Sample Multiplier: 1

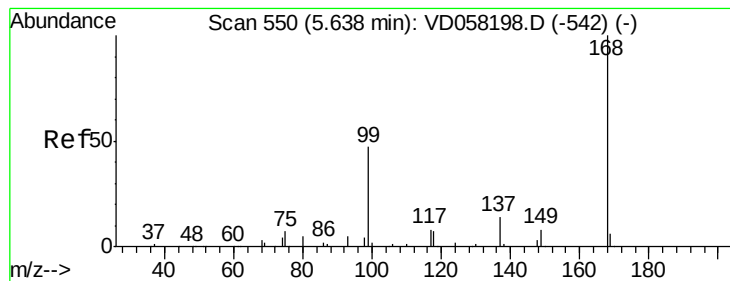
Instrument :
MSVOA_D
ClientSampleId :
WP021SB478-21-23-180621

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Quant Time: Jun 25 08:41:09 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-21-23-180621

Tot Ion:168 Resp: 808861

Ion Ratio Lower Upper

168 100

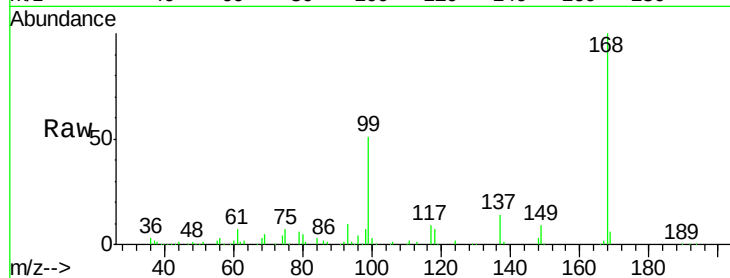
99 51.1 41.1 61.7

Manual Integrations

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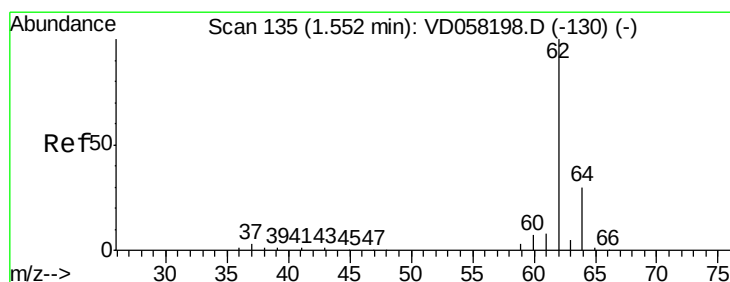
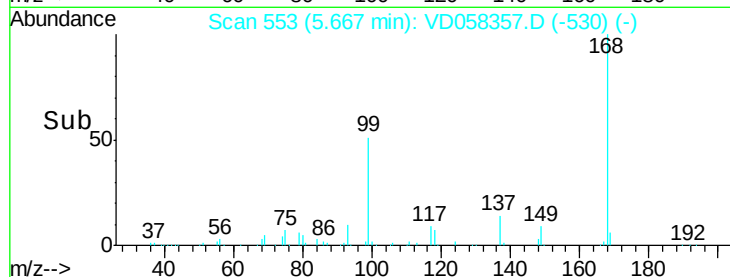
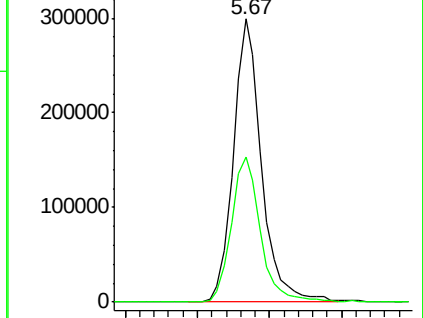
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#4

Vinyl Chloride

Concen: 917.24 ug/l

RT: 1.57 min Scan# 137

Delta R.T. 0.02 min

Lab File: VD058357.D

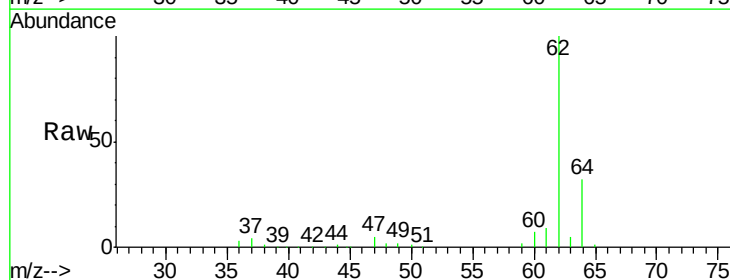
Acq: 23 Jun 2018 22:53

Tgt Ion: 62 Resp: 3886566

Ion Ratio Lower Upper

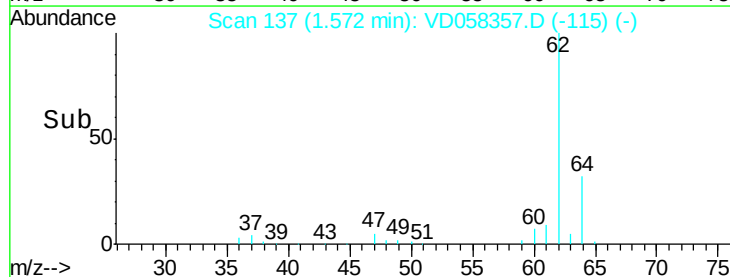
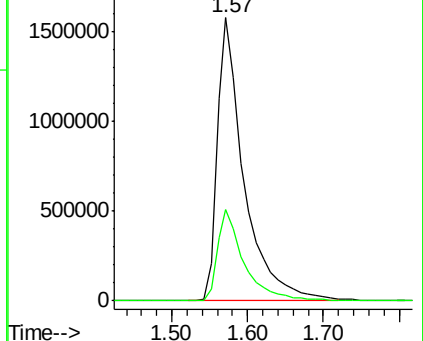
62 100

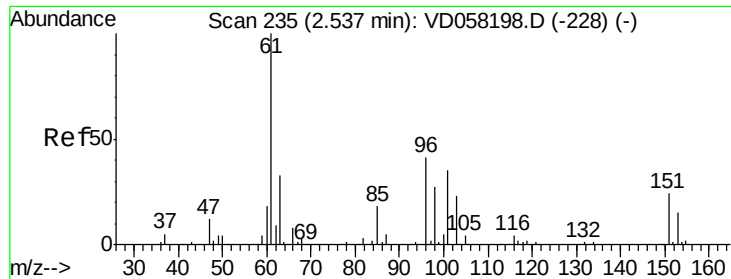
64 32.1 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#12

1,1-Dichloroethene

Concen: 57.80 ug/l

RT: 2.58 min Scan# 239

Delta R.T. 0.04 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

Instrument :

MSVOA_D

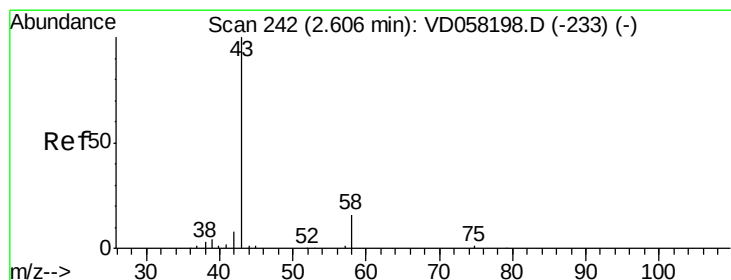
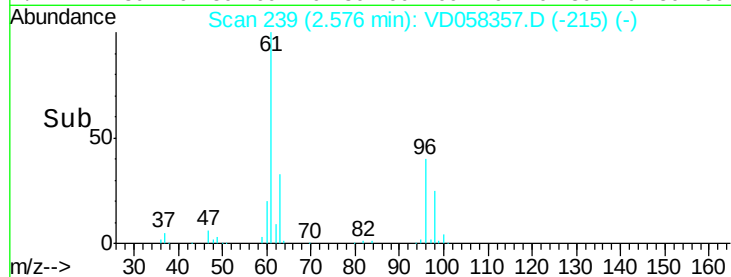
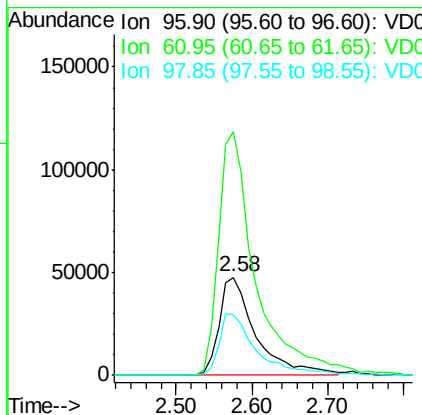
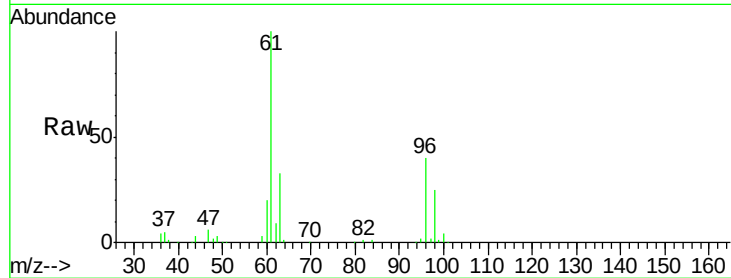
ClientSampleId :

WP021SB478-21-23-180621

Tot Ion:	96	Resp:	160621
Ion	Ratio	Lower	Upper
96	100		
61	248.2	193.9	290.9
98	62.0	51.7	77.5

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#16

Acetone

Concen: 36.54 ug/l

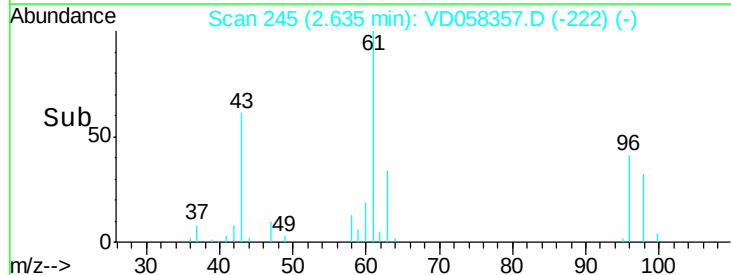
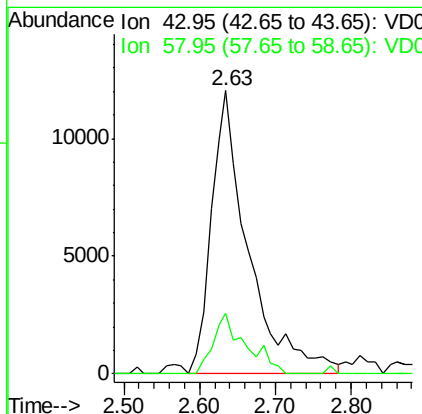
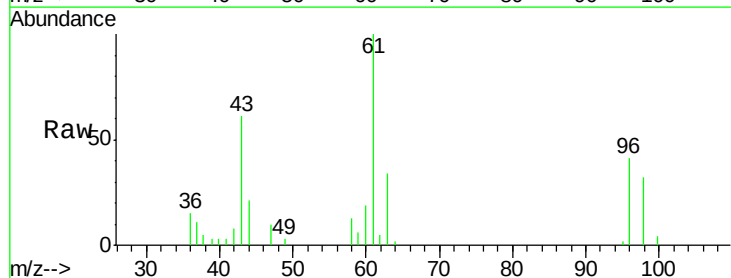
RT: 2.63 min Scan# 245

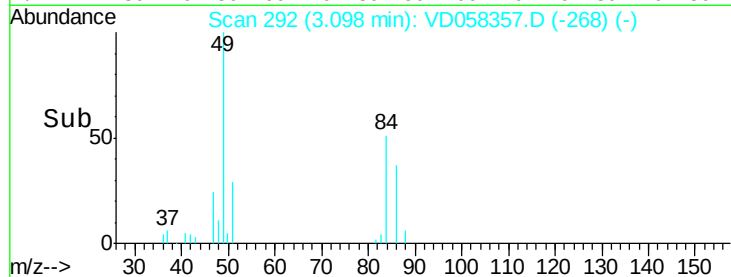
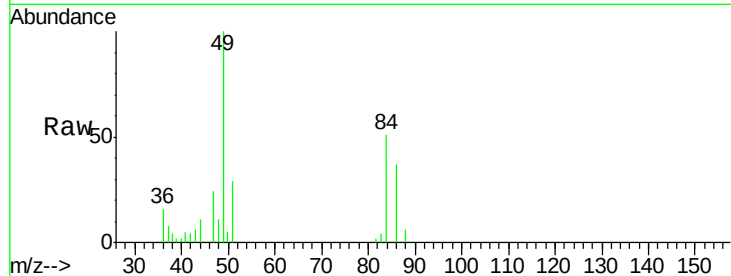
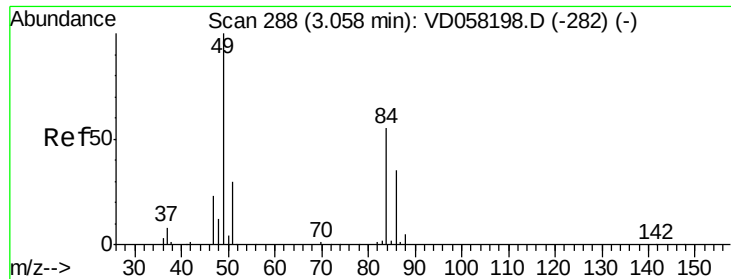
Delta R.T. 0.03 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

Tgt Ion:	43	Resp:	40831
Ion	Ratio	Lower	Upper
43	100		
58	21.3	12.7	19.1#





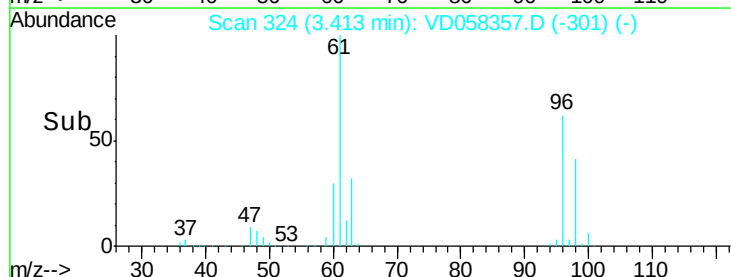
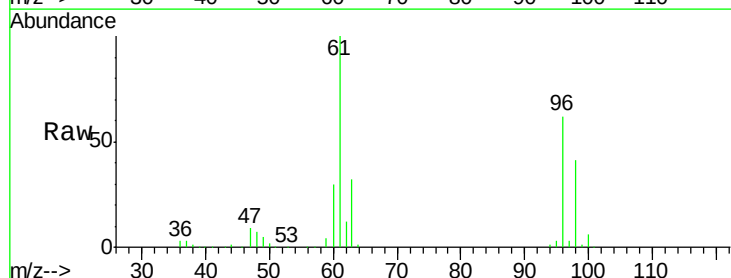
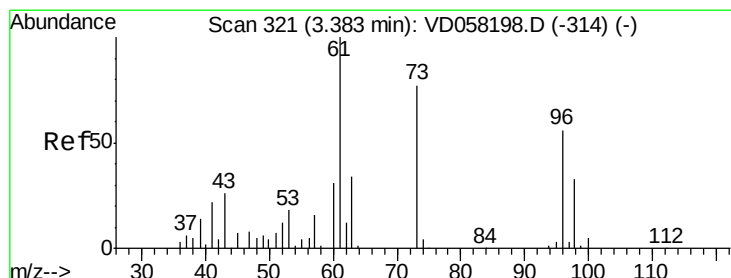
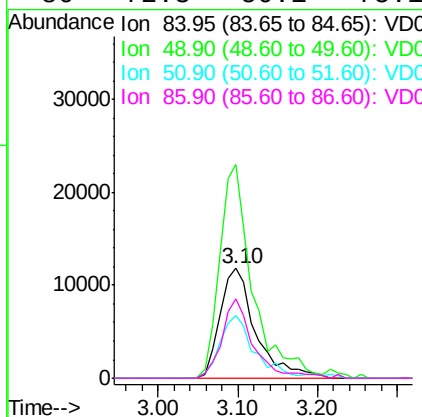
#20
Methylene Chloride
Concen: 8.77 ug/l
RT: 3.10 min Scan# 292
Delta R.T. 0.04 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Tot Ion	Ratio	Lower	Upper
84	100		
49	194.8	145.0	217.6
51	57.3	42.9	64.3
86	72.3	50.1	75.1

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MSVOA_D
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WP021SB478-21-23-180621

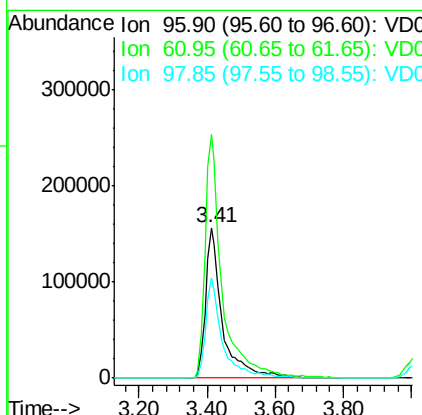
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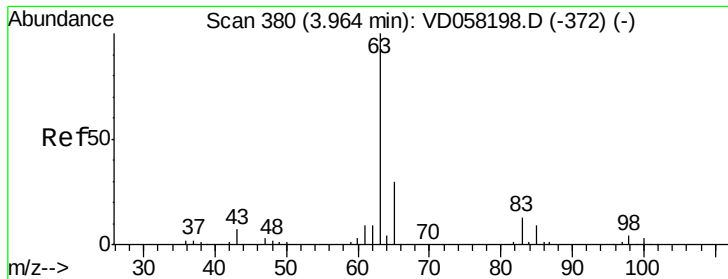
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#21
trans-1,2-Dichloroethene
Concen: 178.10 ug/l m
RT: 3.41 min Scan# 324
Delta R.T. 0.03 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.7	143.8	215.6
98	66.3	48.0	72.0





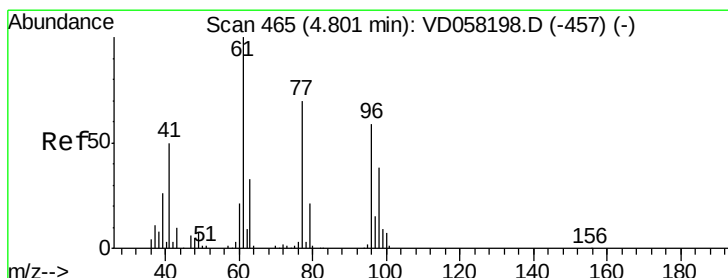
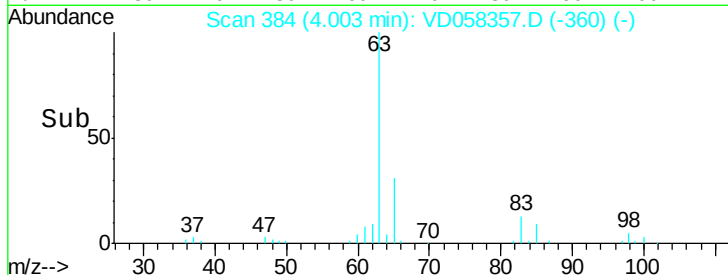
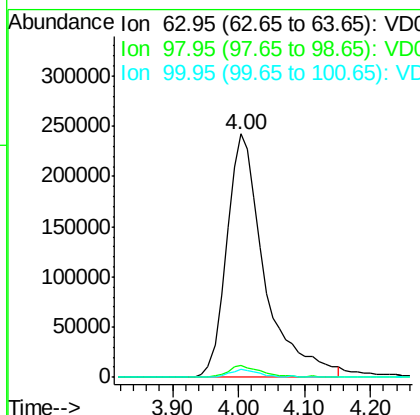
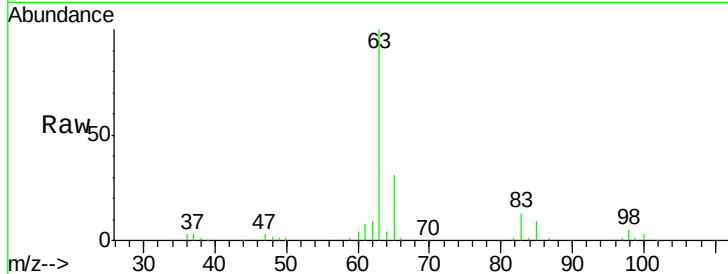
#24
 1,1-Dichloroethane
 Concen: 70.15 ug/l
 RT: 4.00 min Scan# 384
 Delta R.T. 0.04 min
 Lab File: VD058357.D
 Acq: 23 Jun 2018 22:53

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-21-23-180621

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	4.9	1.9	5.7	
100	3.3	1.3	3.9	

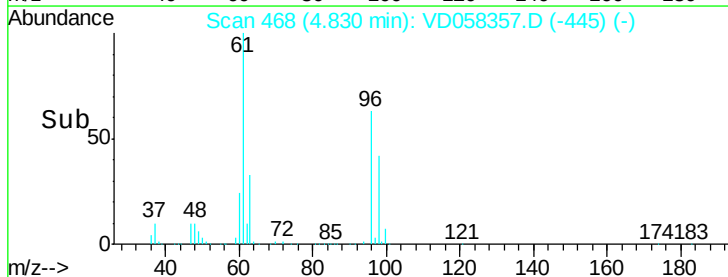
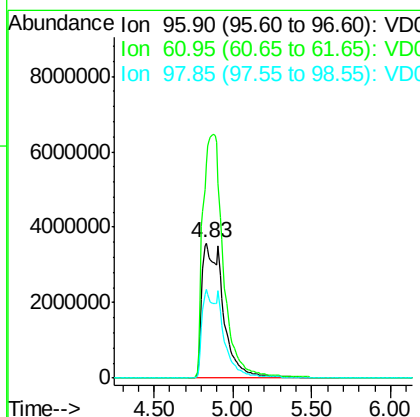
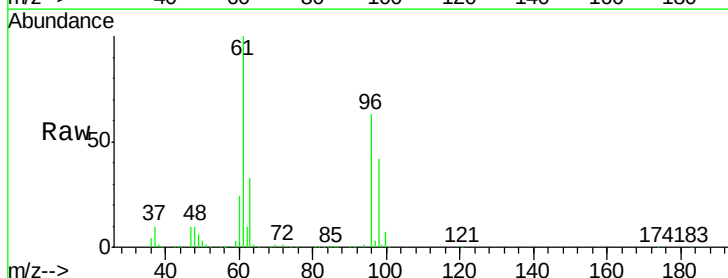
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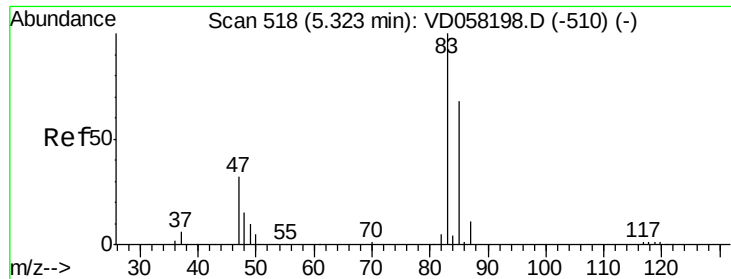
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#27
 cis-1,2-Dichloroethene
 Concen: 4446.36 ug/l m
 RT: 4.83 min Scan# 468
 Delta R.T. 0.03 min
 Lab File: VD058357.D
 Acq: 23 Jun 2018 22:53

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	157.8	0.0	338.6	
98	65.6	0.0	130.2	





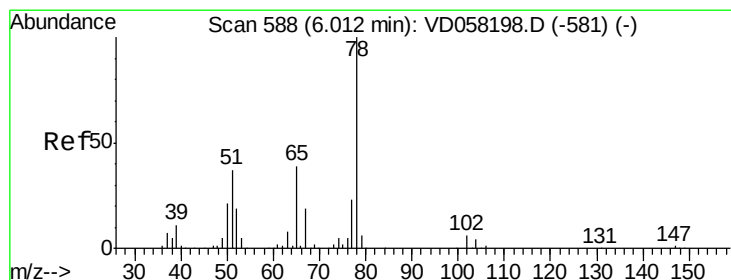
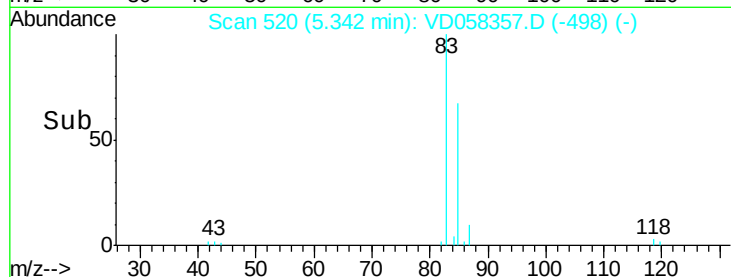
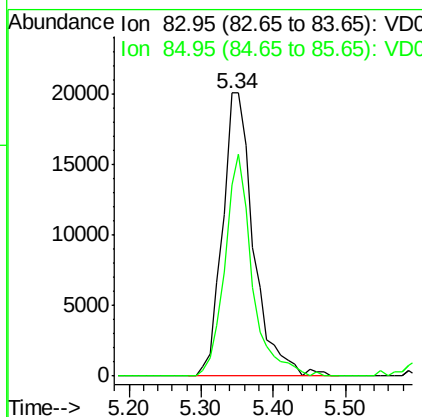
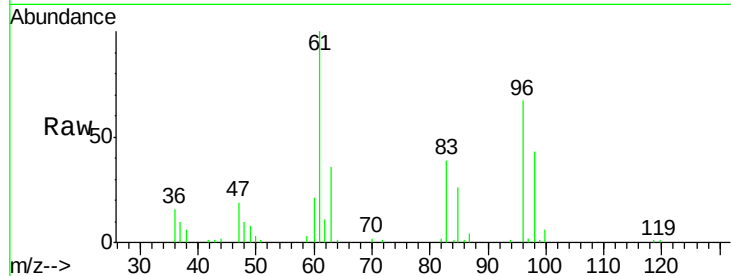
#30
Chloroform
Concen: 4.12 ug/l
RT: 5.34 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Instrument :
MSVOA_D
ClientSampleId :
WP021SB478-21-23-180621

Tot Ion: 83 Resp: 60157
Ion Ratio Lower Upper
83 100
85 67.4 54.8 82.2

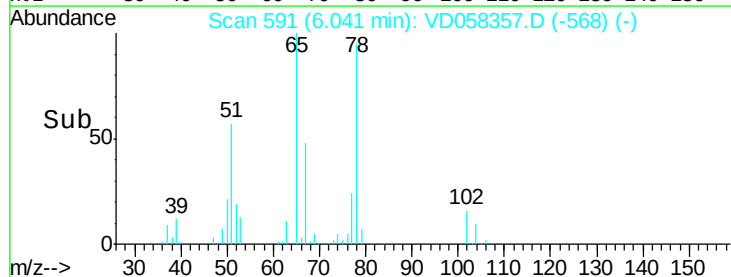
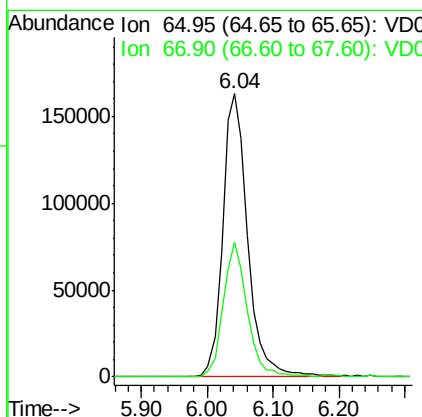
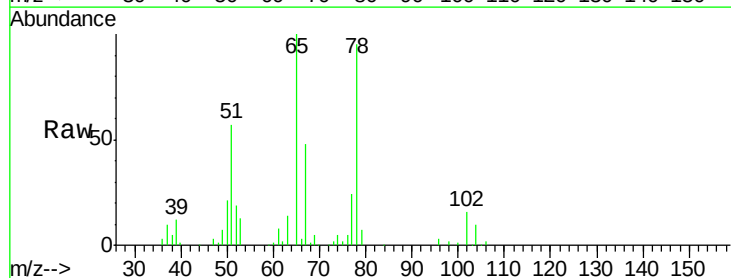
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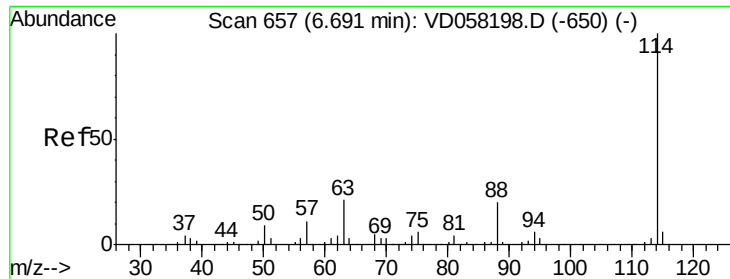
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#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.04 min Scan# 591
Delta R.T. 0.03 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Tgt Ion: 65 Resp: 430023
Ion Ratio Lower Upper
65 100
67 47.8 0.0 97.8





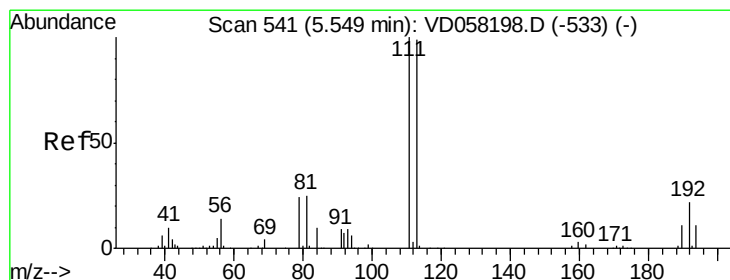
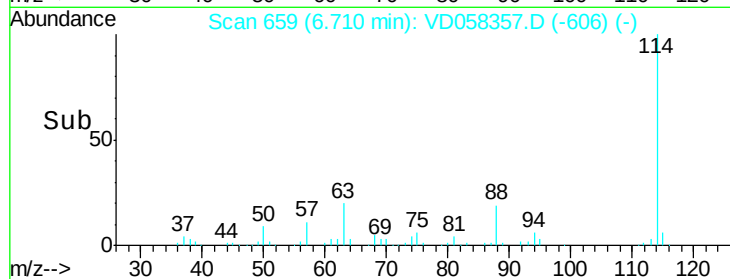
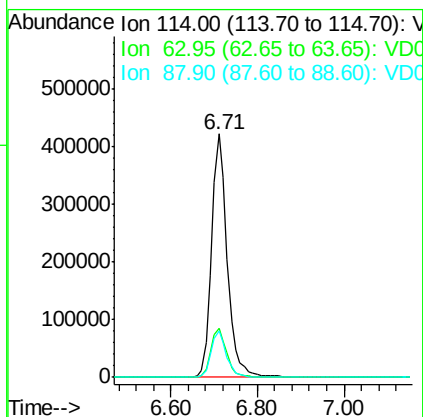
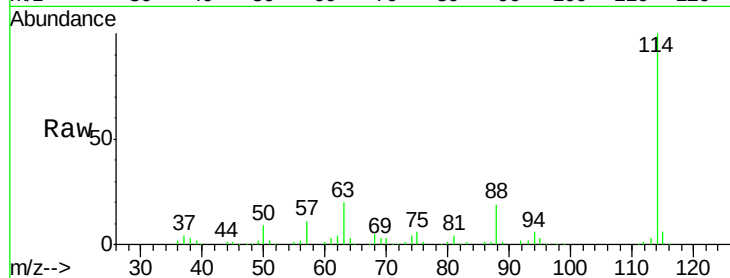
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VD058357.D
 Acq: 23 Jun 2018 22:53

Instrument :
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 WP021SB478-21-23-180621

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	42.6
88	19.1	0.0	40.6

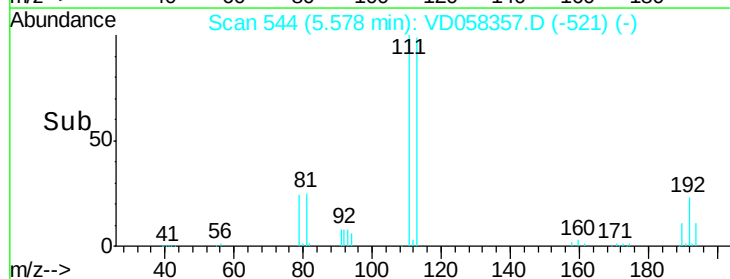
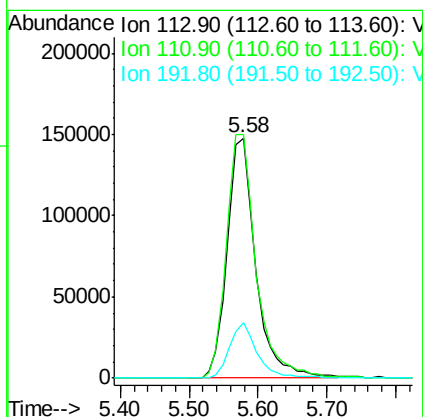
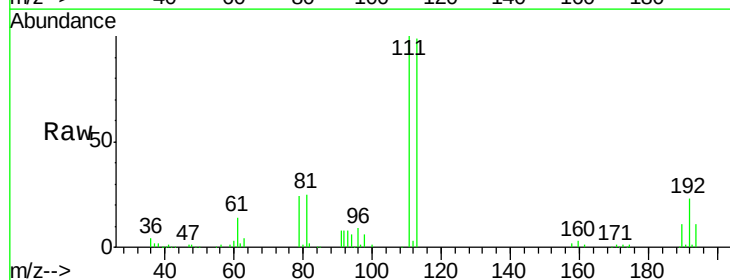
Manual Integrations
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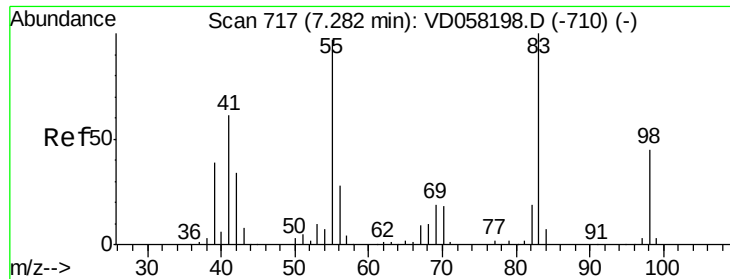
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#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.58 min Scan# 544
 Delta R.T. 0.03 min
 Lab File: VD058357.D
 Acq: 23 Jun 2018 22:53

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.6	121.0
192	22.9	17.8	26.6





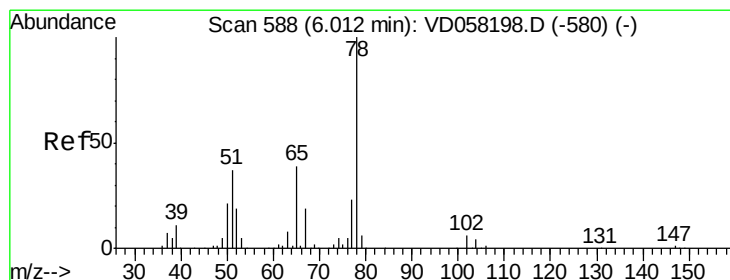
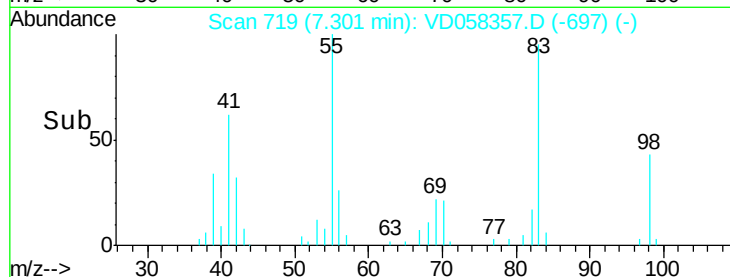
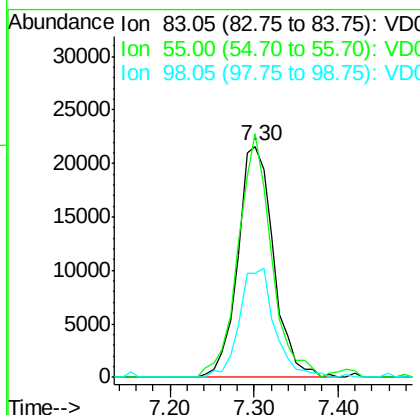
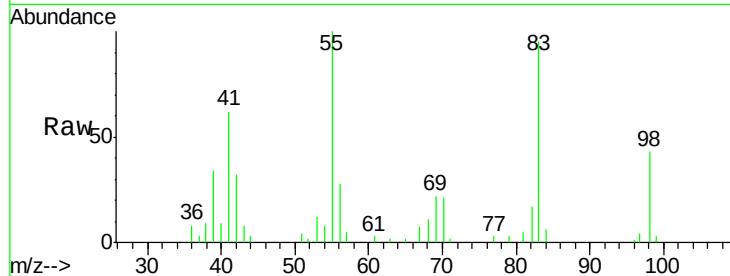
#39
Methylvlcyclohexane
Concen: 6.25 ug/l
RT: 7.30 min Scan# 719
Delta R.T. 0.02 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Instrument :
MSVOA_D
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WP021SB478-21-23-180621

Tot Ion	Ratio	Lower	Upper
83	100		
55	105.4	77.4	116.2
98	44.8	35.9	53.9

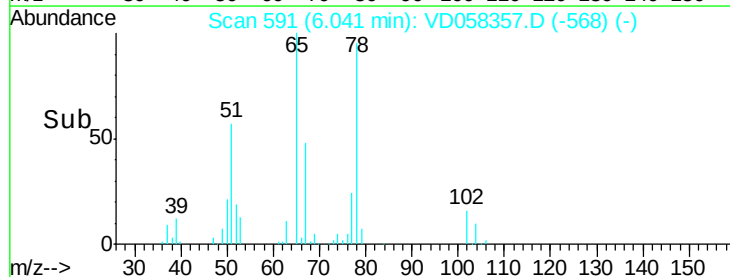
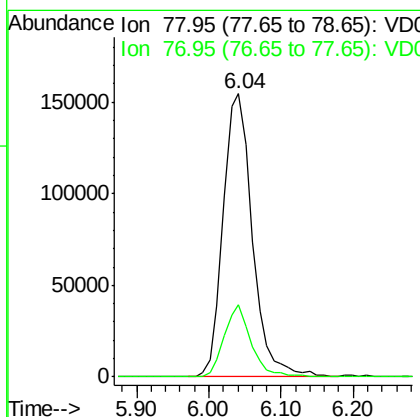
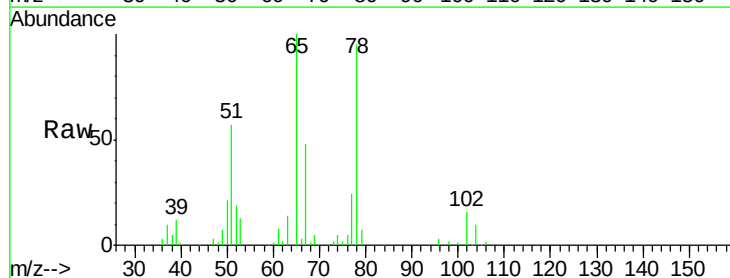
Manual Integrations
APPROVED

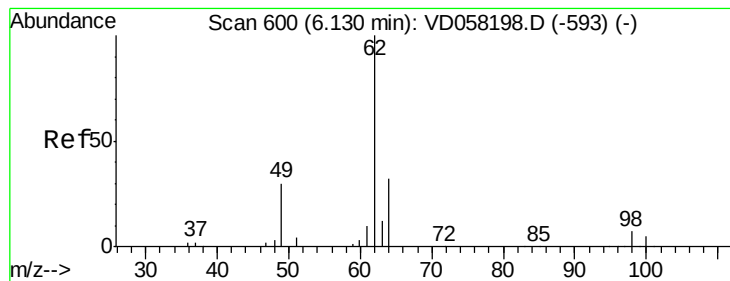
apatel
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#40
Benzene
Concen: 17.45 ug/l
RT: 6.04 min Scan# 591
Delta R.T. 0.03 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.4	18.5	27.7





#42

1,2-Dichloroethane

Concen: 6.01 ug/l

RT: 6.15 min Scan# 602

Delta R.T. 0.02 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-21-23-180621

Tot Ion: 62 Resp: 60464

Ion Ratio Lower Upper

62 100

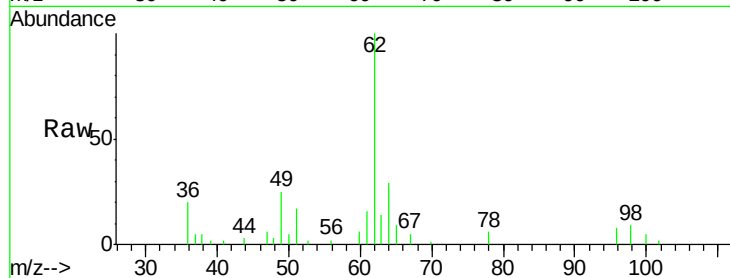
98 8.7 0.0 13.2

Manual Integrations

APPROVED

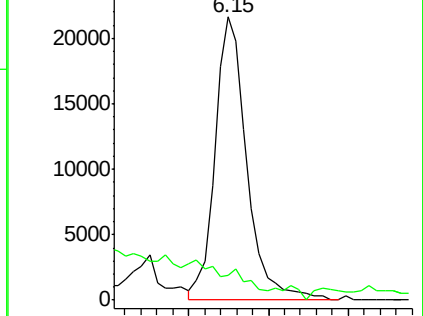
apatel

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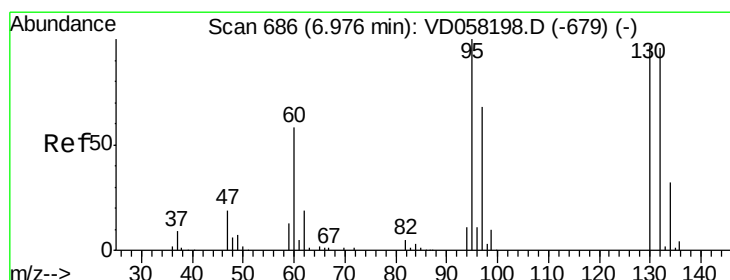
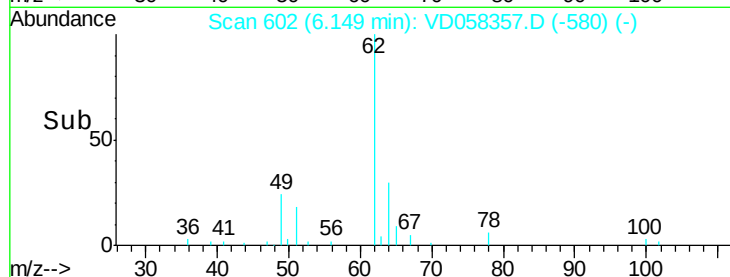


Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



Time-->



#44

Trichloroethene

Concen: 20.95 ug/l

RT: 7.00 min Scan# 688

Delta R.T. 0.02 min

Lab File: VD058357.D

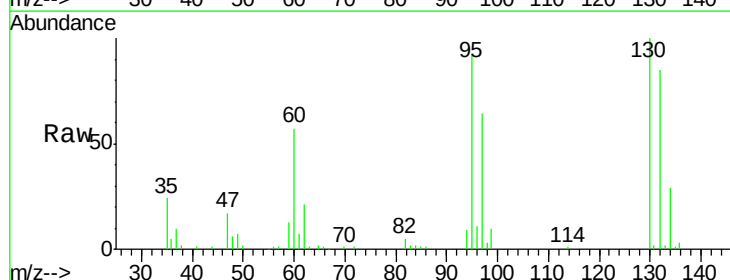
Acq: 23 Jun 2018 22:53

Tgt Ion:130 Resp: 156883

Ion Ratio Lower Upper

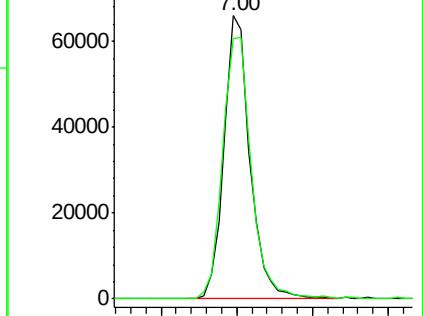
130 100

95 92.2 0.0 205.6

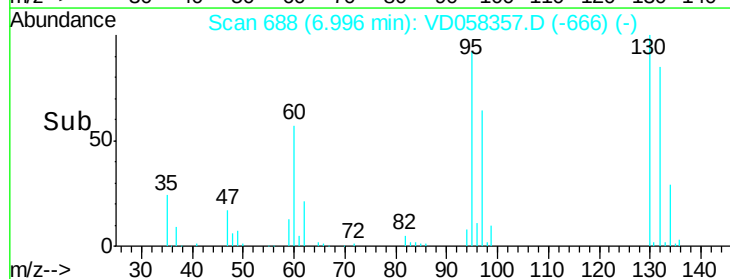


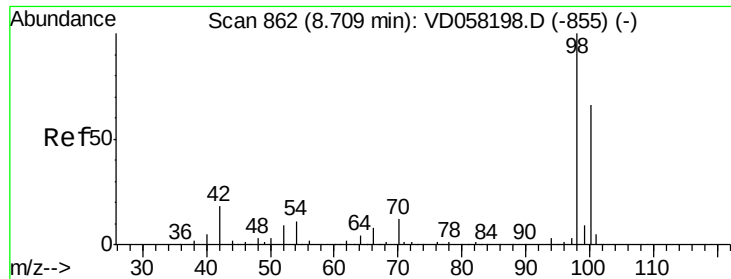
Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



Time-->





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-21-23-180621

Tot Ion: 98 Resp: 1059015

Ion Ratio Lower Upper

98 100

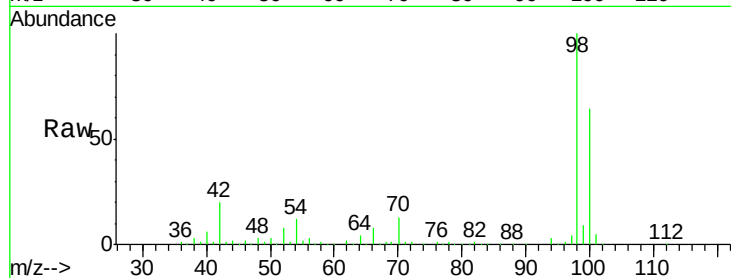
100 64.5 53.6 80.4

Manual Integrations

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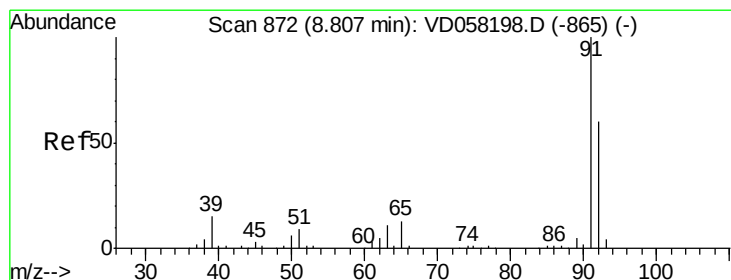
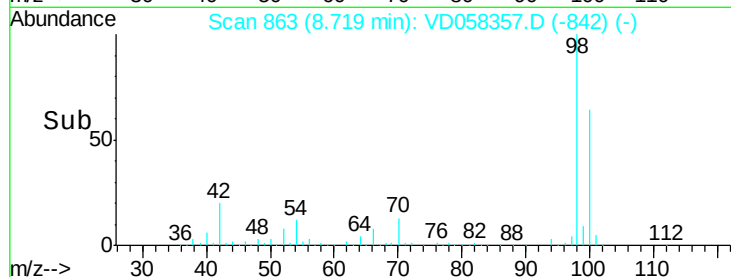
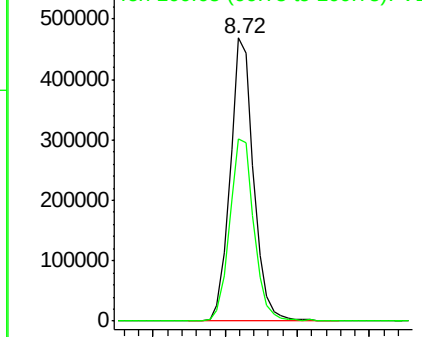
apatel

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Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 8.58 ug/l

RT: 8.82 min Scan# 873

Delta R.T. 0.01 min

Lab File: VD058357.D

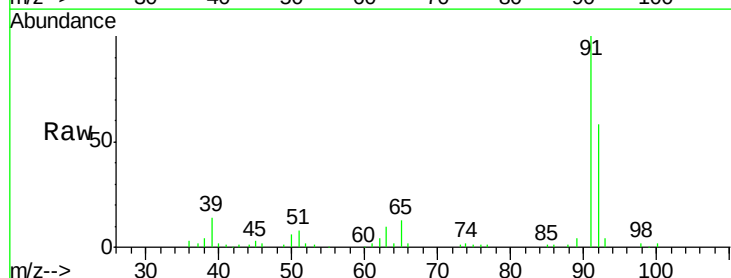
Acq: 23 Jun 2018 22:53

Tgt Ion: 92 Resp: 121772

Ion Ratio Lower Upper

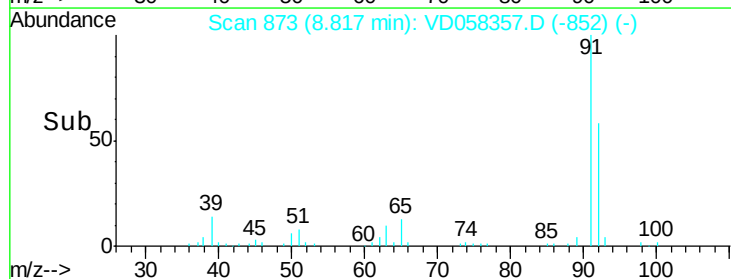
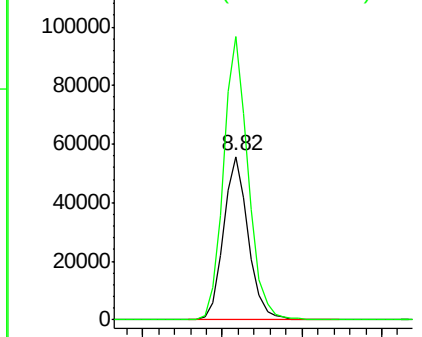
92 100

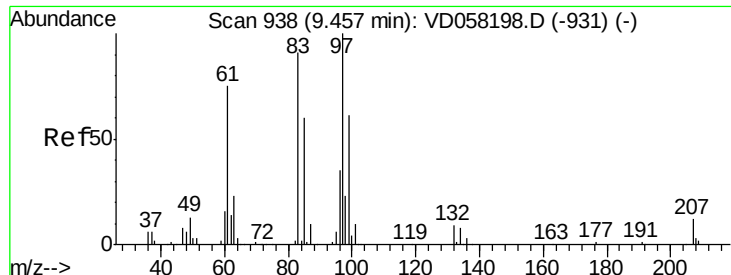
91 173.6 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





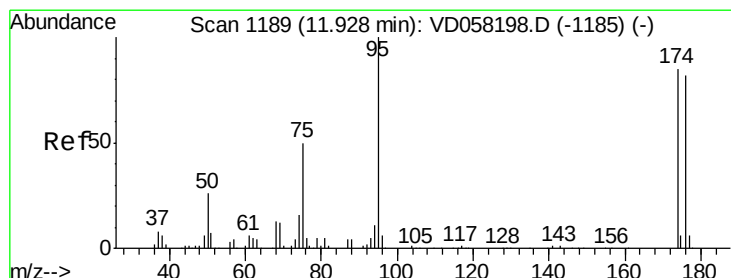
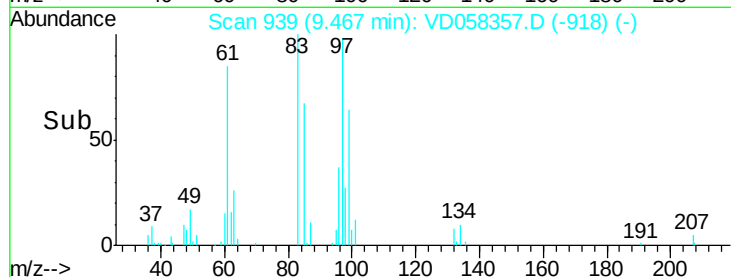
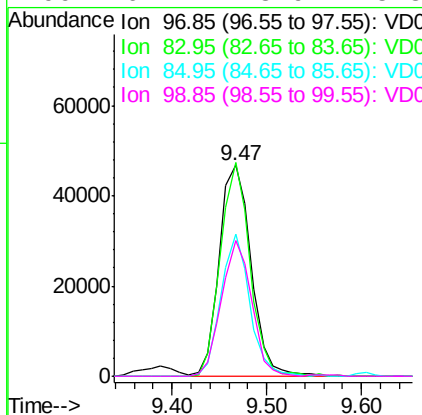
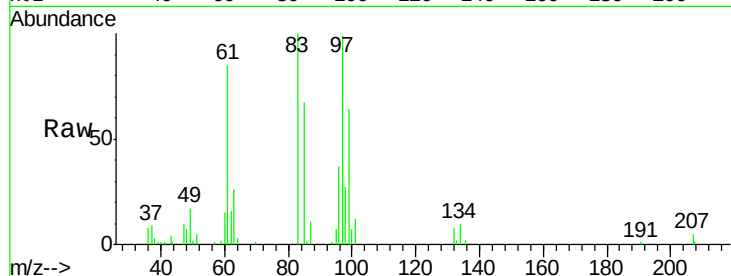
#55
 1,1,2-Trichloroethane
 Concen: 21.73 ug/l
 RT: 9.47 min Scan# 939
 Delta R.T. 0.01 min
 Lab File: VD058357.D
 Acq: 23 Jun 2018 22:53

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-21-23-180621

Tot Ion:	97	Resp:	109188
Ion	Ratio	Lower	Upper
97	100		
83	101.3	72.9	109.3
85	67.6	48.2	72.4
99	64.4	48.9	73.3

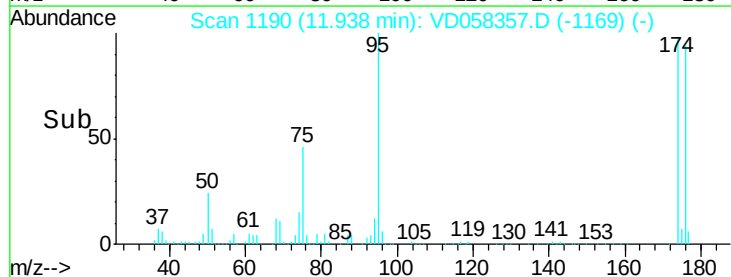
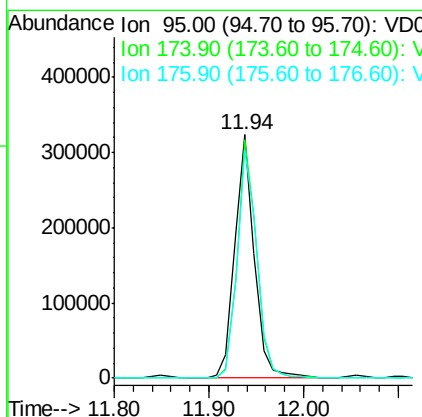
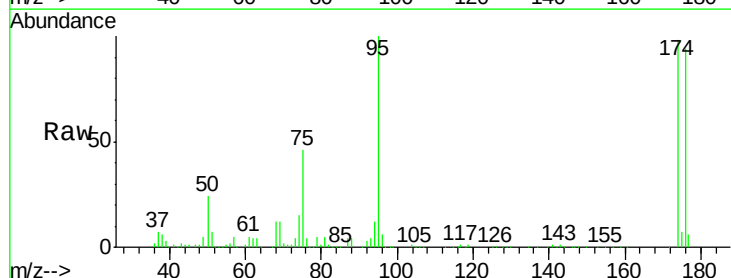
Manual Integrations
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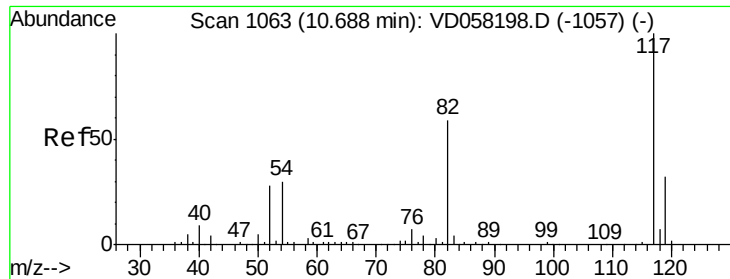
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#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 11.94 min Scan# 1190
 Delta R.T. 0.01 min
 Lab File: VD058357.D
 Acq: 23 Jun 2018 22:53

Tgt Ion:	95	Resp:	462326
Ion	Ratio	Lower	Upper
95	100		
174	98.1	0.0	170.2
176	94.0	0.0	164.6





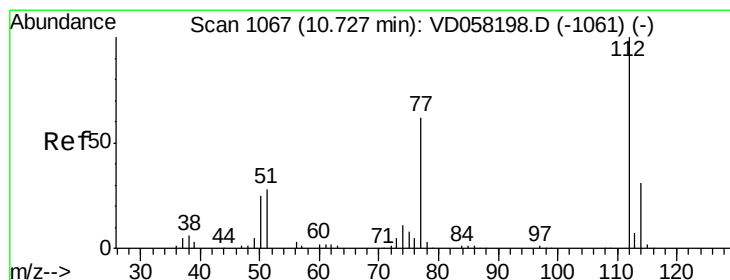
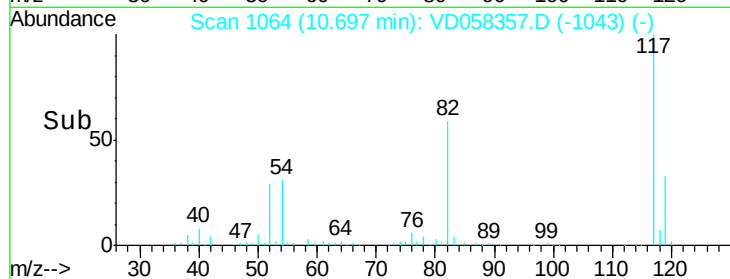
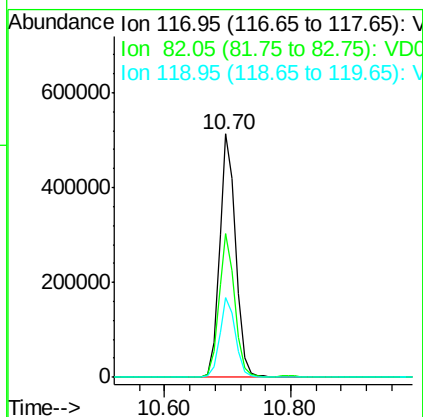
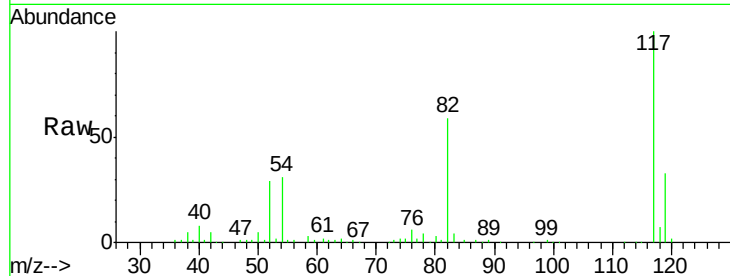
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Instrument :
MSVOA_D
ClientSampleId :
WP021SB478-21-23-180621

Tot Ion:117 Resp: 920187
Ion Ratio Lower Upper
117 100
82 58.9 47.0 70.6
119 32.8 25.3 37.9

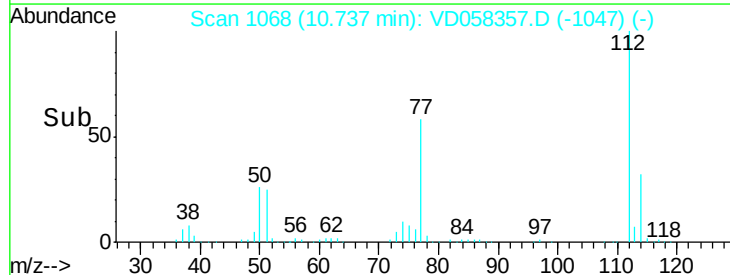
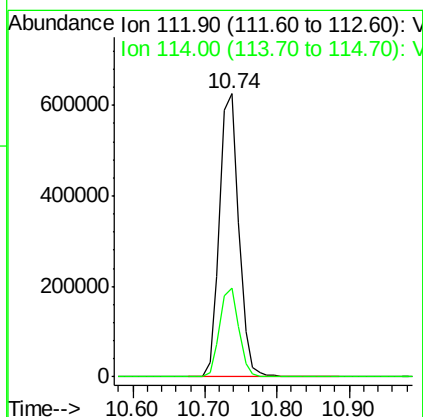
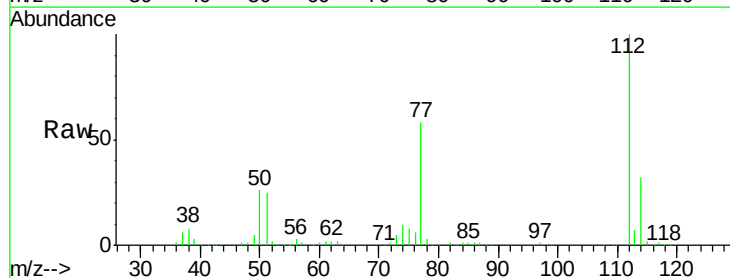
Manual Integrations
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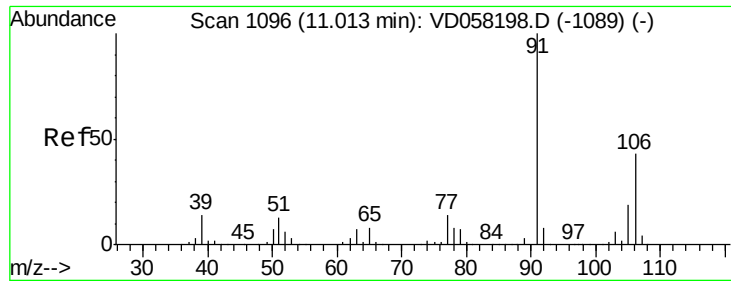
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6/25/2018 2:42:12 PM



#65
Chlorobenzene
Concen: 67.40 ug/l
RT: 10.74 min Scan# 1068
Delta R.T. 0.01 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Tgt Ion:112 Resp: 1160208
Ion Ratio Lower Upper
112 100
114 31.6 25.0 37.4





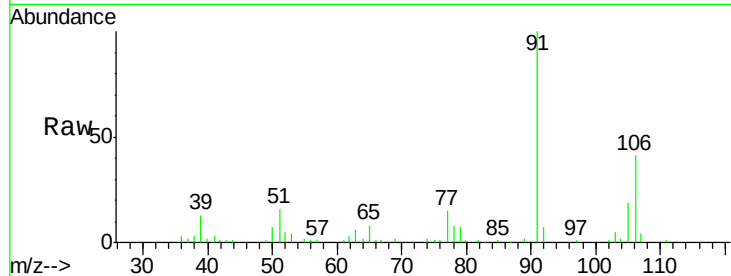
#68
m/p-Xvlenes
Concen: 4.73 ug/l
RT: 11.02 min Scan# 1097
Delta R.T. 0.01 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Instrument :
MSVOA_D
ClientSampleId :
WP021SB478-21-23-180621

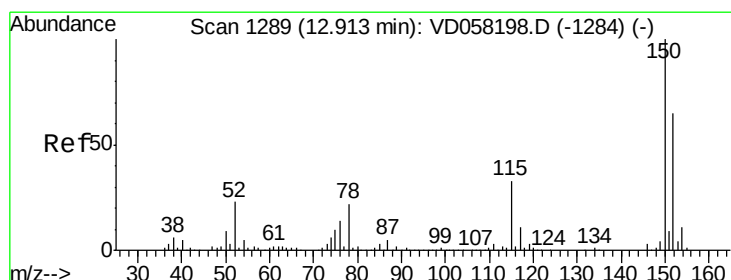
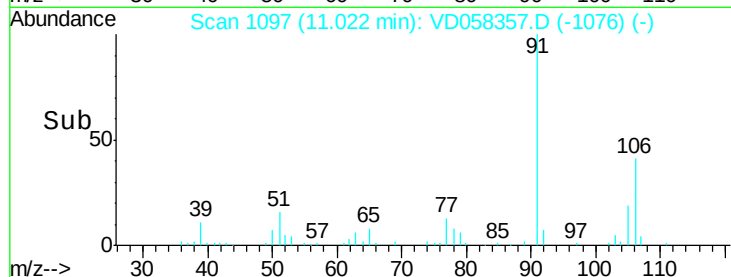
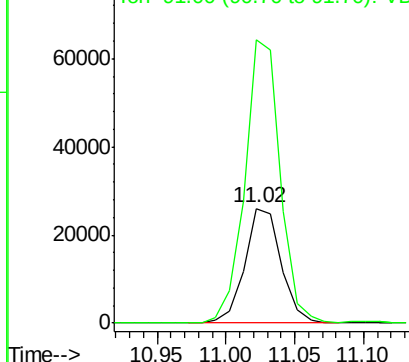
Tot Ion:106 Resp: 47977
Ion Ratio Lower Upper
106 100
91 246.3 185.0 277.6

Manual Integrations
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6/25/2018 2:42:12 PM

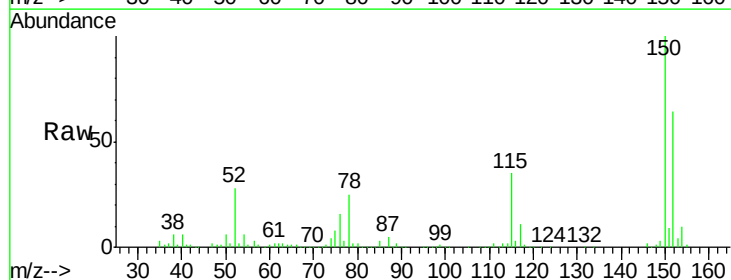


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

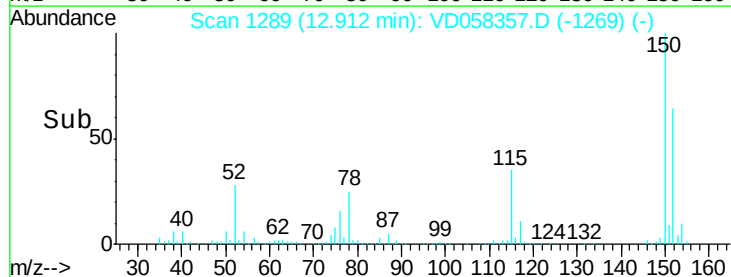
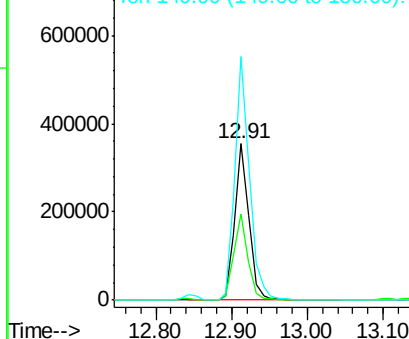


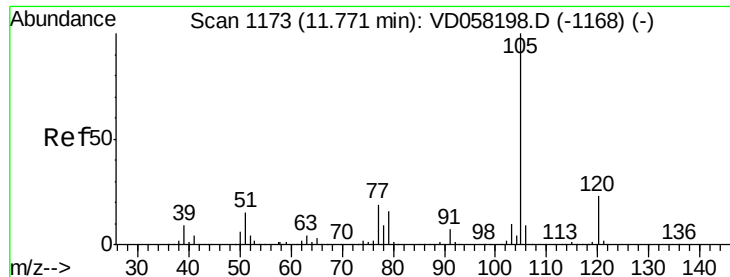
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. -0.00 min
Lab File: VD058357.D
Acq: 23 Jun 2018 22:53

Tgt Ion:152 Resp: 448030
Ion Ratio Lower Upper
152 100
115 55.2 25.1 75.3
150 156.1 0.0 308.8



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: 2.03 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-21-23-180621

Tot Ion: 105 Resp: 54494

Ion Ratio Lower Upper

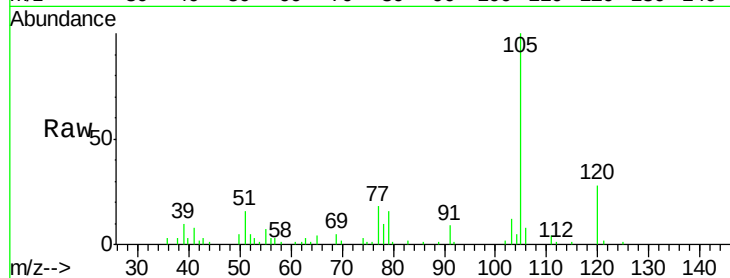
105 100

120 27.9 11.6 34.8

Manual Integrations
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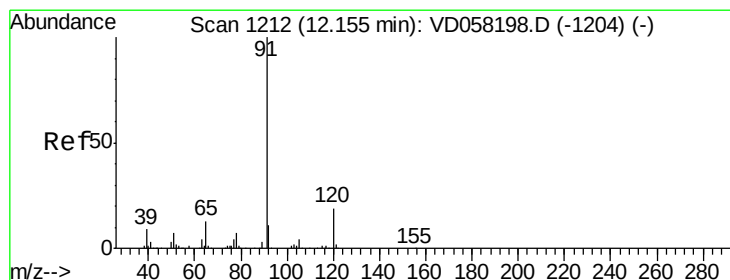
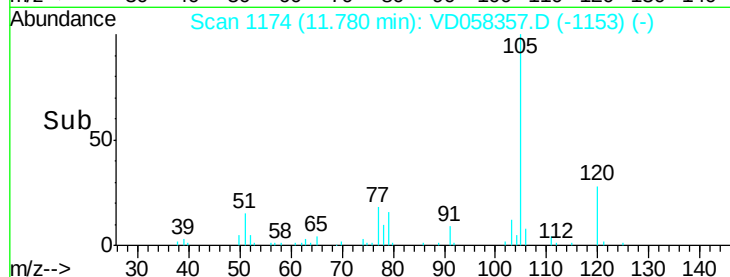
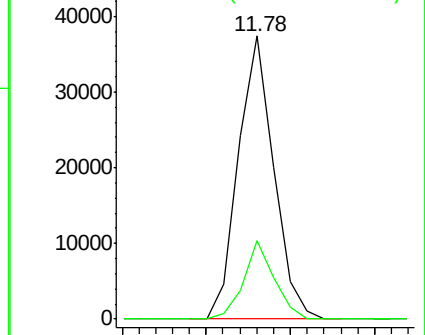
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#78

n-propylbenzene

Concen: 2.44 ug/l

RT: 12.15 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VD058357.D

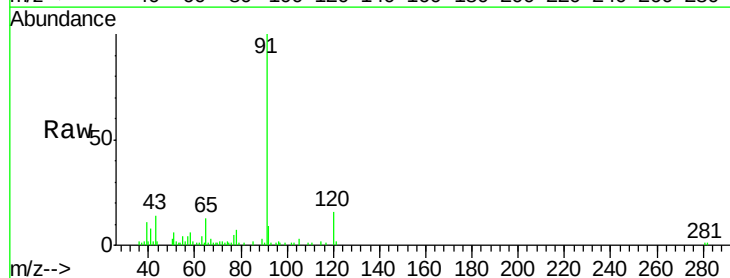
Acq: 23 Jun 2018 22:53

Tgt Ion: 91 Resp: 84313

Ion Ratio Lower Upper

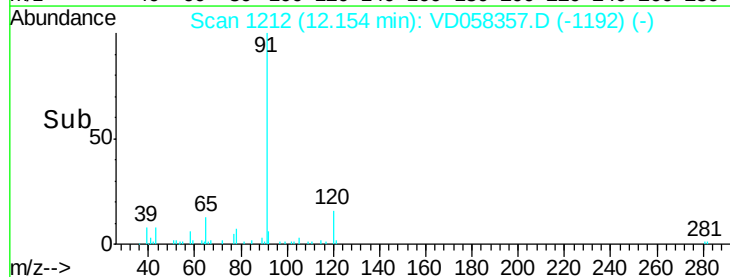
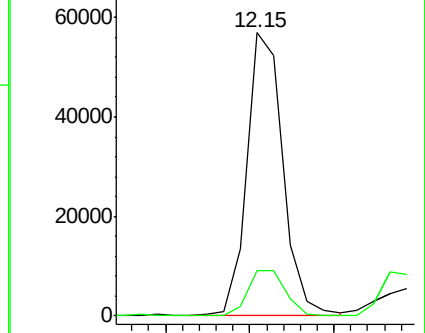
91 100

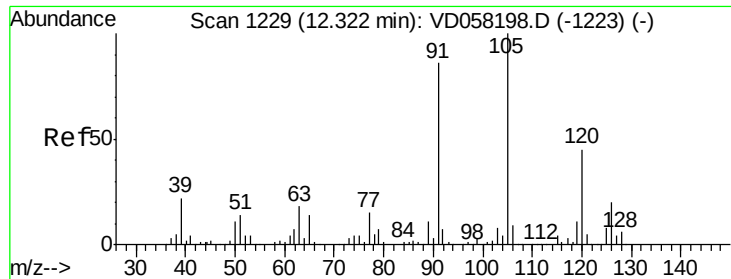
120 16.0 9.7 29.1



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: 8.65 ug/l

RT: 12.32 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-21-23-180621

Tot Ion:105 Resp: 180898

Ion Ratio Lower Upper

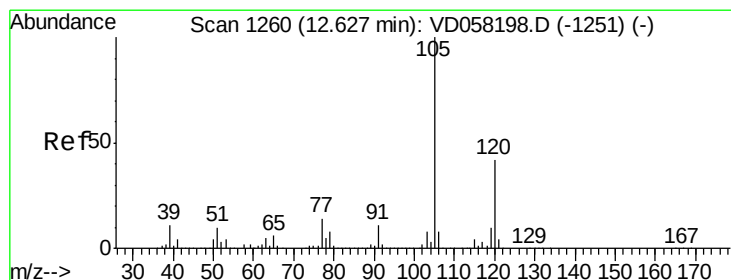
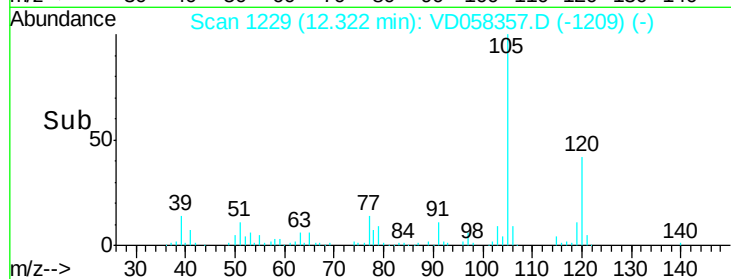
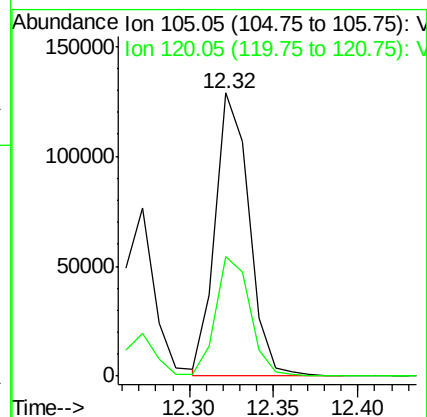
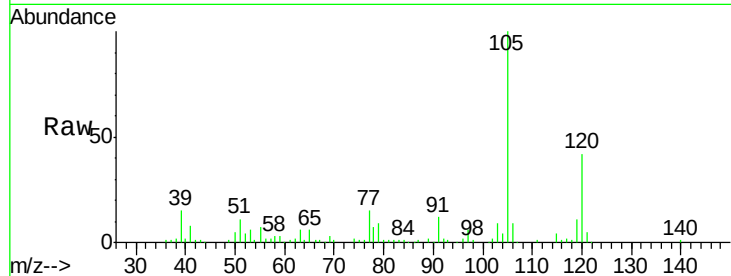
105 100

120 42.5 22.5 67.5

Manual Integrations
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6/25/2018 2:42:12 PM



#84

1,2,4-Trimethylbenzene

Concen: 6.86 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD058357.D

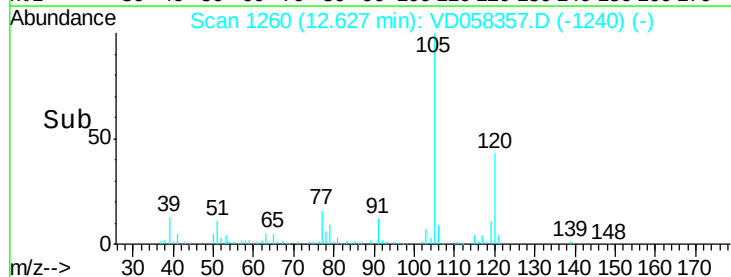
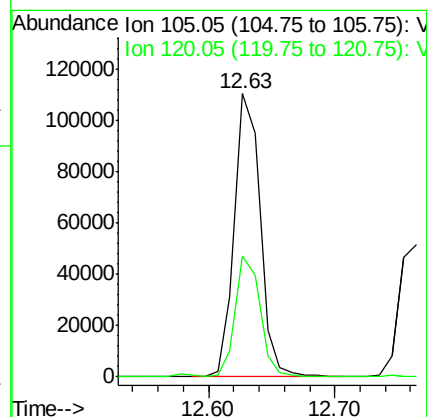
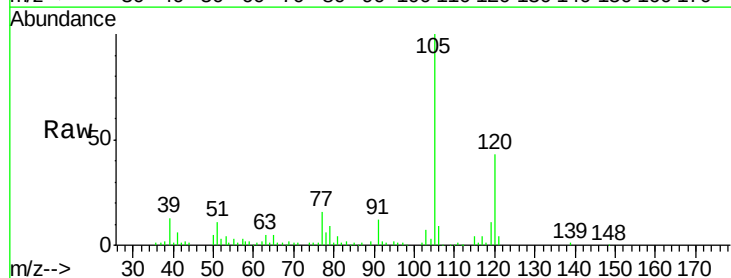
Acq: 23 Jun 2018 22:53

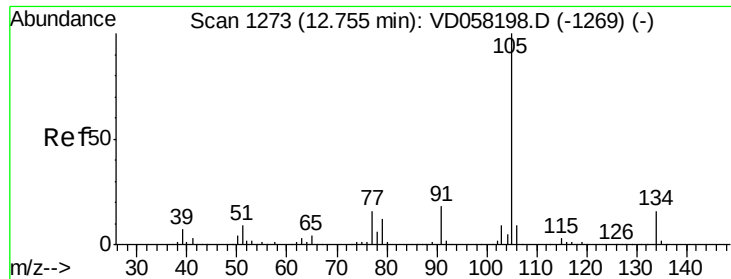
Tgt Ion:105 Resp: 155797

Ion Ratio Lower Upper

105 100

120 42.9 20.8 62.4





#85

sec-Butylbenzene

Concen: 2.70 ug/l

RT: 12.76 min Scan# 1274

Delta R.T. 0.01 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-21-23-180621

Tot Ion:105 Resp: 76029

Ion Ratio Lower Upper

105 100

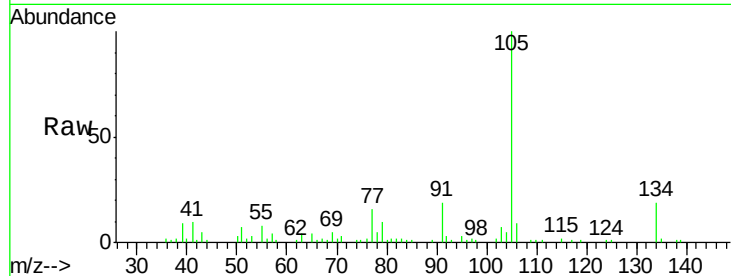
134 18.8 8.1 24.3

Manual Integrations

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6/25/2018 2:42:12 PM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

12.76

12.76

12.76

12.76

12.76

12.76

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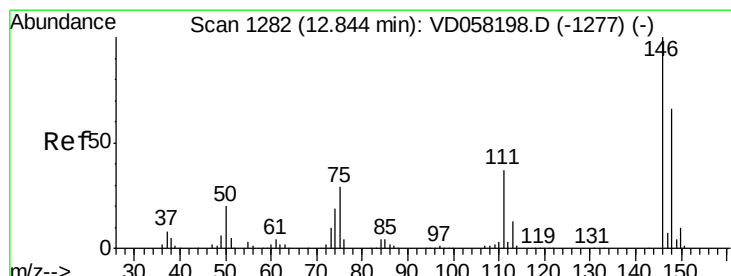
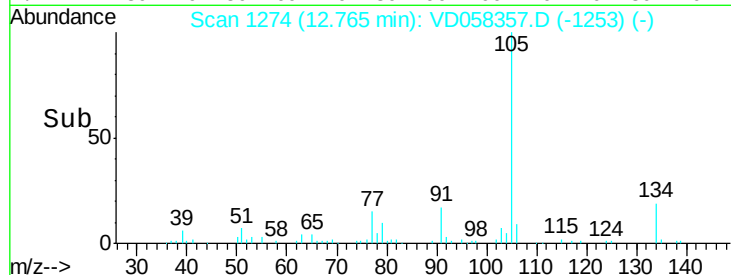
12.76

12.76

12.76

12.76

12.76



#87

1,3-Dichlorobenzene

Concen: 13.05 ug/l

RT: 12.84 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

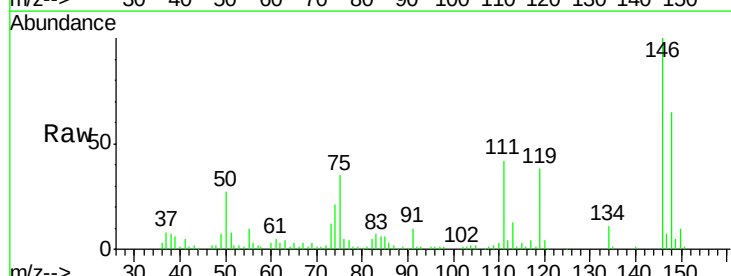
Tgt Ion:146 Resp: 181975

Ion Ratio Lower Upper

146 100

111 41.7 18.4 55.0

148 64.9 32.8 98.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

12.84

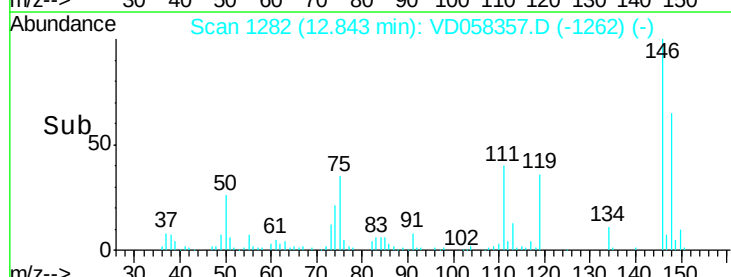
12.84

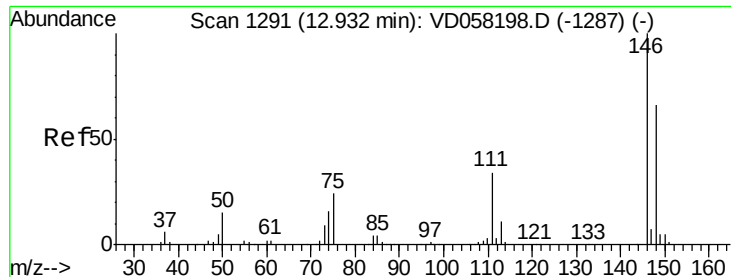
12.84

12.84

12.84

12.84





#88

1,4-Dichlorobenzene

Concen: 24.88 ug/l

RT: 12.93 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VD058357.D

Acq: 23 Jun 2018 22:53

Instrument :

MSVOA_D

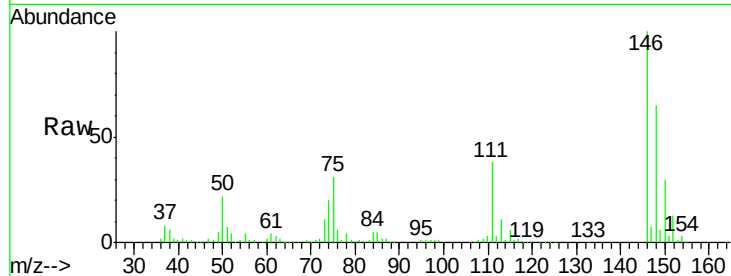
ClientSampleId :

WP021SB478-21-23-180621

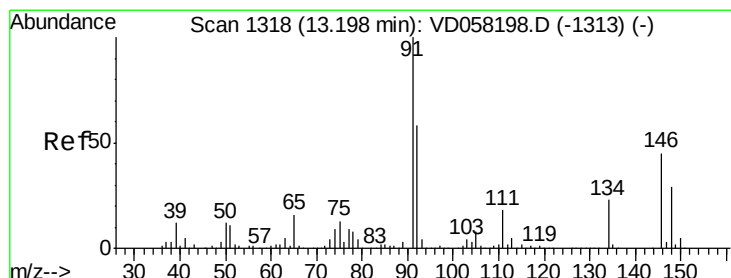
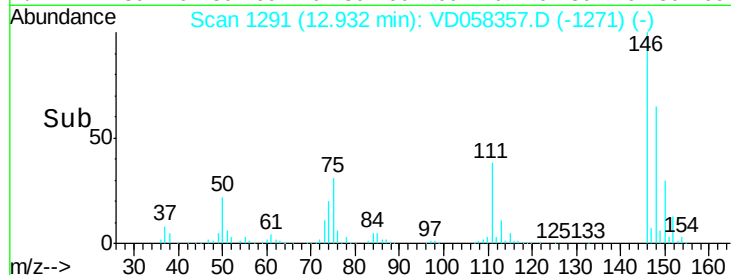
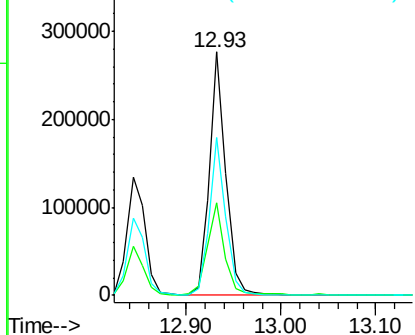
Tot Ion:	146	Resp:	338896
Ion Ratio	Lower	Upper	
146	100		
111	37.8	17.2	51.5
148	64.6	33.1	99.3

Manual Integrations
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Abundance Ion 145.95 (145.65 to 146.65): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 5.09 ug/l

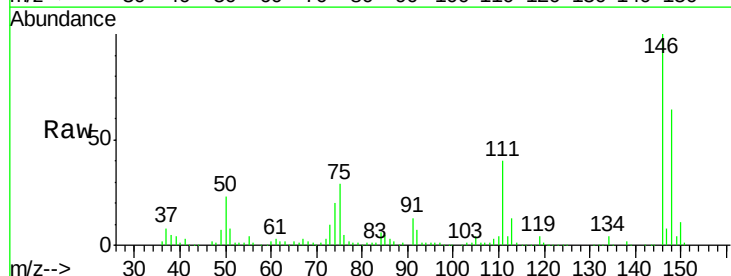
RT: 13.20 min Scan# 1318

Delta R.T. -0.00 min

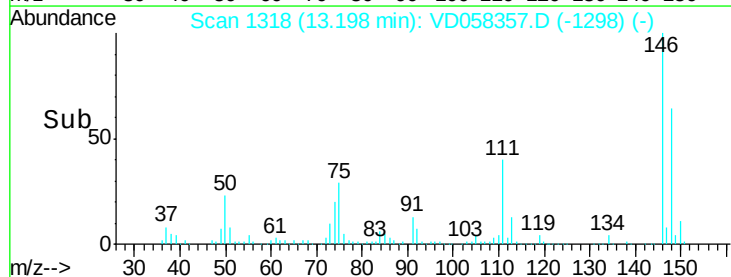
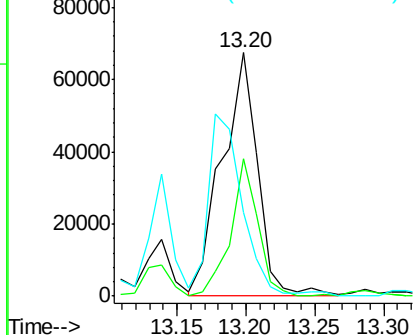
Lab File: VD058357.D

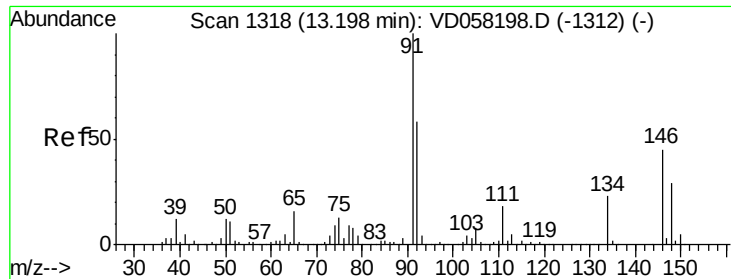
Acq: 23 Jun 2018 22:53

Tgt Ion:	91	Resp:	122066
Ion Ratio	Lower	Upper	
91	100		
92	56.3	29.2	87.6
134	34.3	11.3	33.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V





#91
 1,2-Dichlorobenzene
 Concen: 52.73 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: VD058357.D
 Acq: 23 Jun 2018 22:53

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-21-23-180621

Tot Ion	Ratio	Resp Lower	Resp Upper
146	100		
111	40.4	19.6	58.7
148	64.1	32.0	96.2

Manual Integrations
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