

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD040919\
 Data File : VD061686.D
 Acq On : 9 Apr 2019 20:29
 Operator : VA/AP
 Sample : K2316-03
 Misc : 5.06g/5ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Manual Integrations
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MMDadoda
 4/11/2019 3:00:03 AM

Quant Time: Apr 10 09:21:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	324055	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.26	114	613822	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.39	117	375114	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.54	152	81163	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.49	65	181664	73.96	ug/l	0.04
Spiked Amount 50.000			Recovery	=	147.92%	
35) Dibromofluoromethane	6.97	113	267718	62.96	ug/l	0.05
Spiked Amount 50.000			Recovery	=	125.92%	
50) Toluene-d8	10.44	98	487428	45.62	ug/l	0.04
Spiked Amount 50.000			Recovery	=	91.24%	
62) 4-Bromofluorobenzene	13.57	95	121211m	29.56	ug/l	0.02
Spiked Amount 50.000			Recovery	=	59.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.25	43	128485	174.982	ug/l	91
17) Carbon Disulfide	3.41	76	122451	11.155	ug/l	100
20) Methylene Chloride	3.85	84	20292	4.870	ug/l	95
25) 2-Butanone	6.10	43	45992	54.332	ug/l	95
31) Cyclohexane	7.00	56	23132	5.002	ug/l #	84
39) Methylcyclohexane	8.90	83	19588	3.552	ug/l #	91
40) Benzene	7.49	78	2306804	177.994	ug/l	100
52) Toluene	10.54	92	223206	27.581	ug/l	93
65) Chlorobenzene	12.42	112	338762	45.539	ug/l	100
67) Ethyl Benzene	12.54	91	367376	32.431	ug/l	98
68) m/p-Xylenes	12.68	106	267161	61.175	ug/l	98
69) o-Xylene	13.07	106	112614	26.713	ug/l	94
73) Isopropylbenzene	13.42	105	814206	150.557	ug/l	98
78) n-propylbenzene	13.79	91	82632	12.773	ug/l	88
79) 2-Chlorotoluene	13.86	91	244697	66.146	ug/l	93
80) 1,3,5-Trimethylbenzene	13.95	105	79264	18.466	ug/l	99
83) tert-Butylbenzene	14.20	119	87395	16.887	ug/l	99
84) 1,2,4-Trimethylbenzene	14.25	105	186167	42.974	ug/l	96
85) sec-Butylbenzene	14.38	105	31787	5.685	ug/l	99
86) p-Isopropyltoluene	14.51	119	121712	25.092	ug/l	97
87) 1,3-Dichlorobenzene	14.47	146	11959	4.427	ug/l #	66
88) 1,4-Dichlorobenzene	14.55	146	19449	7.135	ug/l #	78
95) Naphthalene	16.14	128	48909	27.249	ug/l	99

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

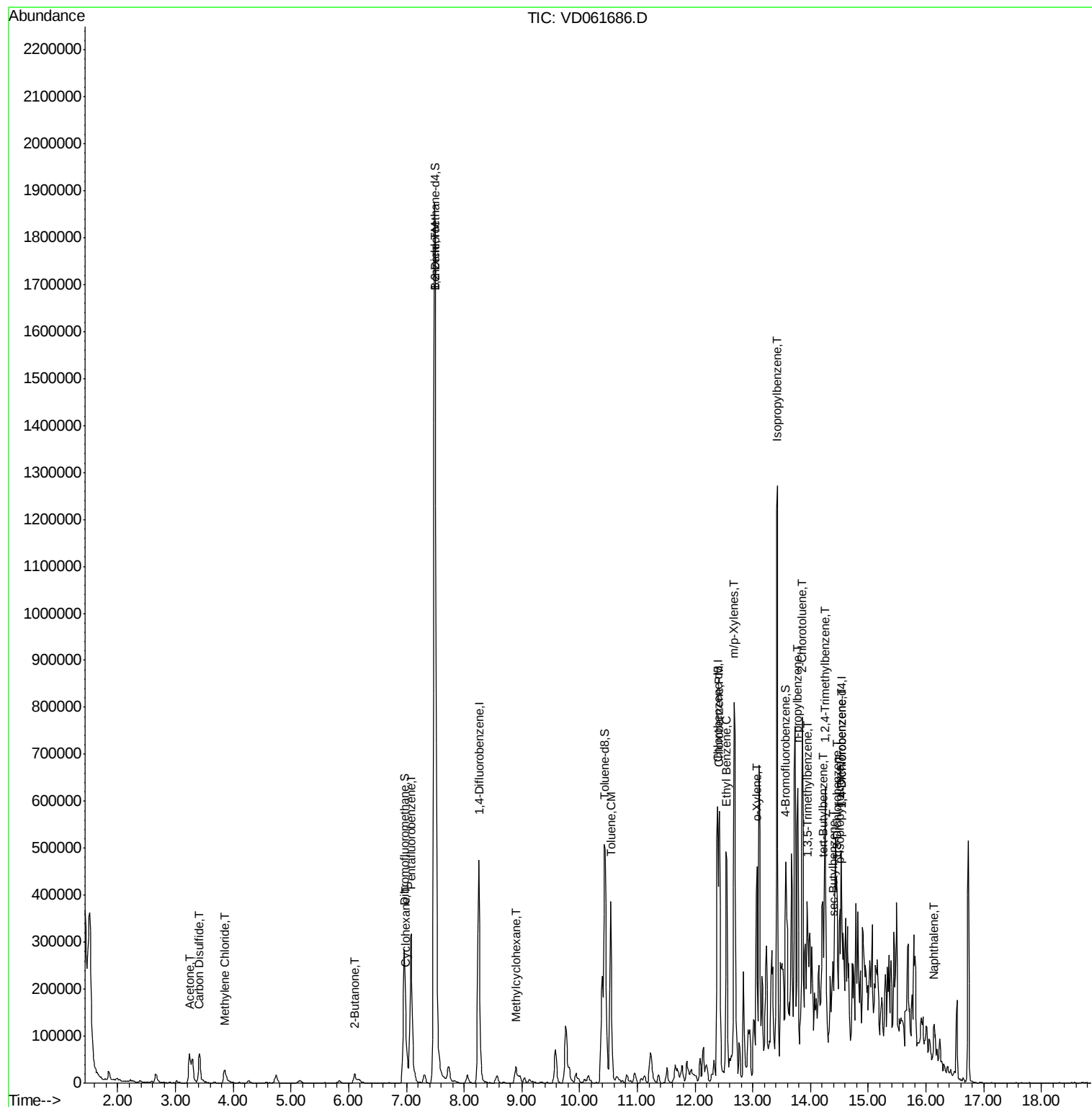
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD040919\
Data File : VD061686.D
Acq On : 9 Apr 2019 20:29
Operator : VA/AP
Sample : K2316-03
Misc : 5.06g/5ml/MSVOA_D/SOIL
ALS Vial : 18 Sample Multiplier: 1

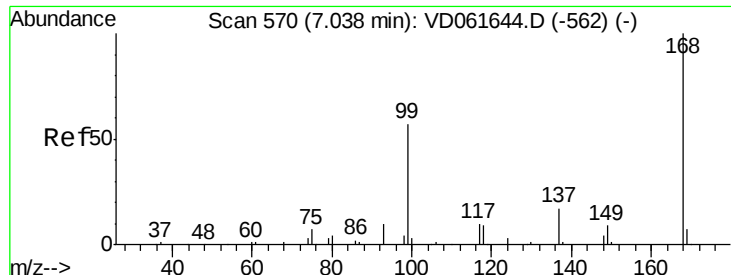
Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Manual Integrations
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Quant Time: Apr 10 09:21:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





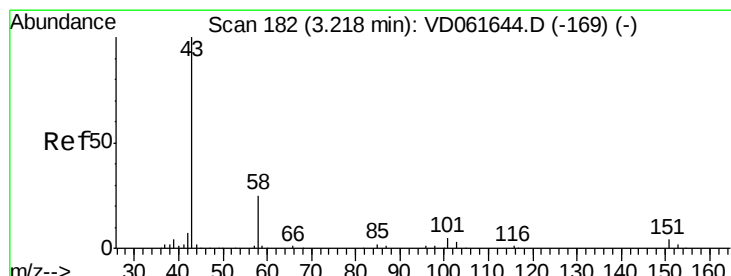
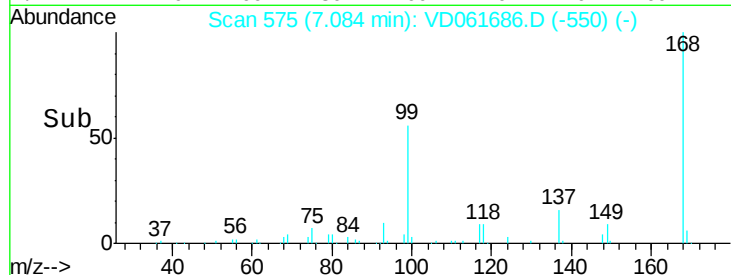
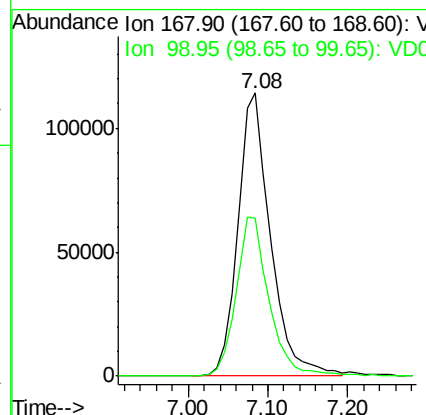
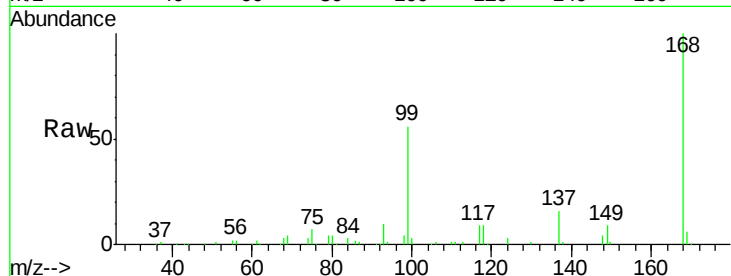
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.08 min Scan# 575
Delta R.T. 0.05 min
Lab File: VD061686.D
Acq: 9 Apr 2019 20:29

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion: 168 Resp: 324055
Ion Ratio Lower Upper
168 100
99 55.9 46.8 70.2

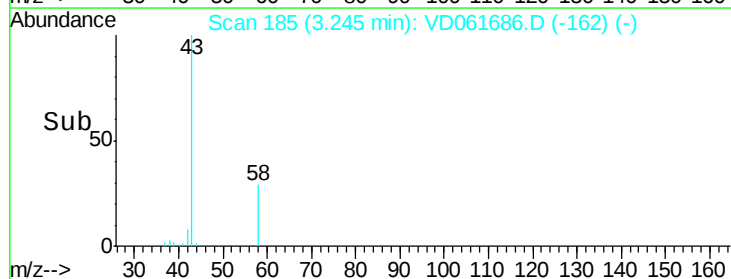
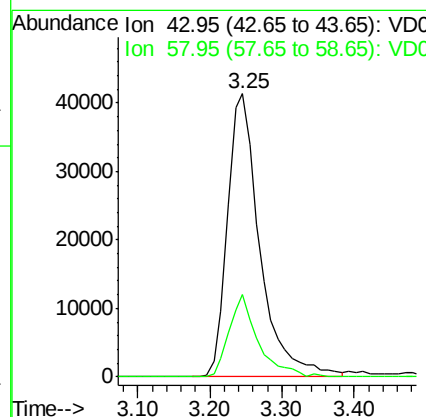
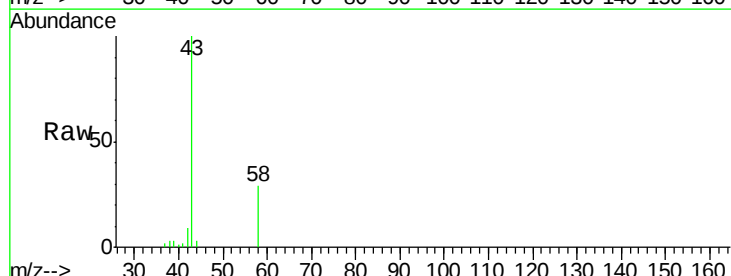
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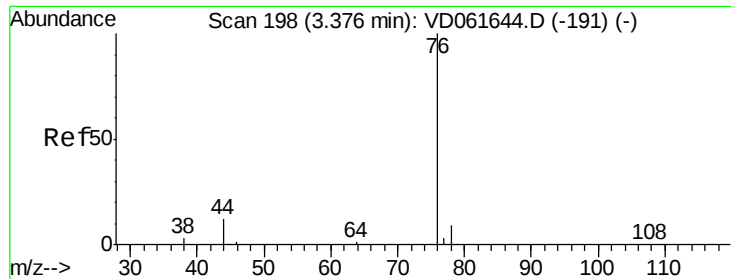
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#16
Acetone
Concen: 174.982 ug/l
RT: 3.25 min Scan# 185
Delta R.T. 0.03 min
Lab File: VD061686.D
Acq: 9 Apr 2019 20:29

Tgt Ion: 43 Resp: 128485
Ion Ratio Lower Upper
43 100
58 28.9 19.7 29.5





#17

Carbon Disulfide

Concen: 11.155 ug/l

RT: 3.41 min Scan# 202

Delta R.T. 0.04 min

Lab File: VD061686.D

Acq: 9 Apr 2019 20:29

Instrument :

MSVOA_D

ClientSampleId :

20190171-COMP-CS-3

Tgt Ion: 76 Resp: 122451

Ion Ratio Lower Upper

76 100

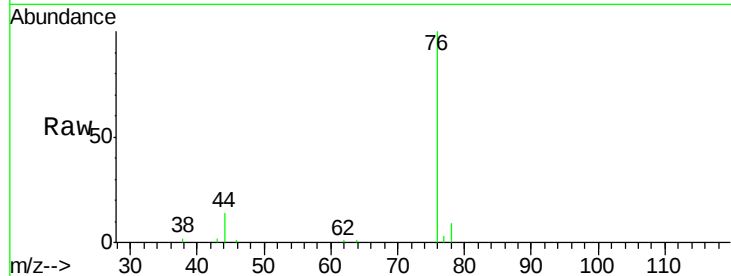
78 9.3 7.4 11.2

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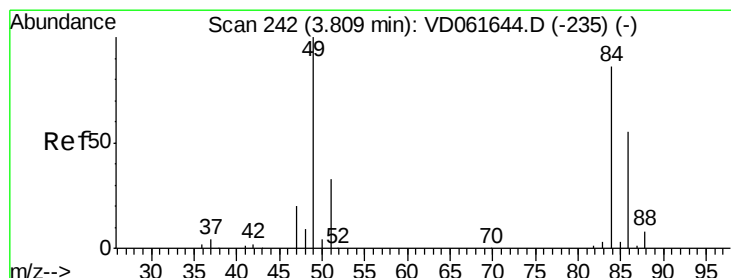
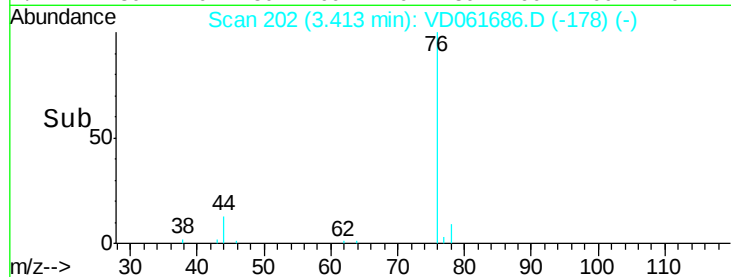
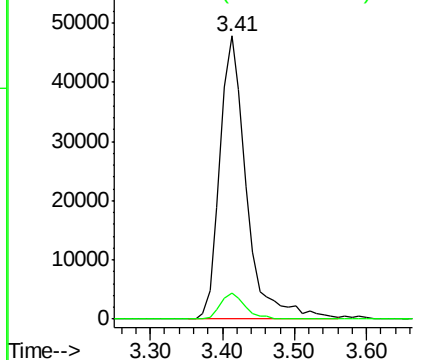
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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: 4.870 ug/l

RT: 3.85 min Scan# 246

Delta R.T. 0.04 min

Lab File: VD061686.D

Acq: 9 Apr 2019 20:29

Tgt Ion: 84 Resp: 20292

Ion Ratio Lower Upper

84 100

49 116.5 93.0 139.4

51 34.4 30.4 45.6

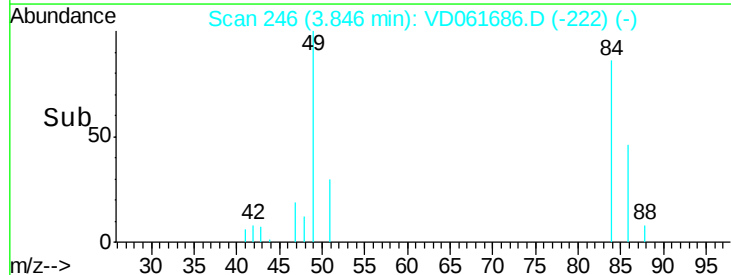
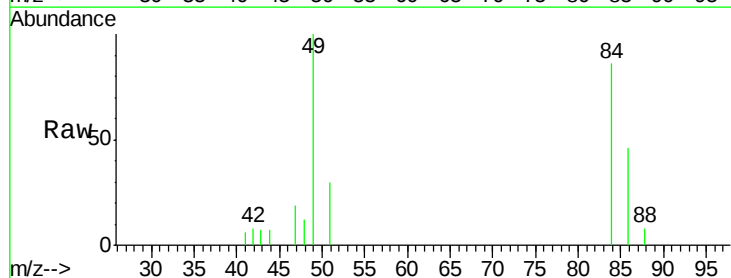
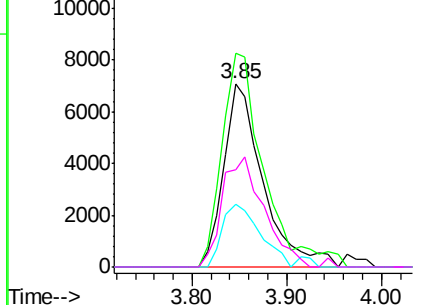
86 53.3 51.0 76.4

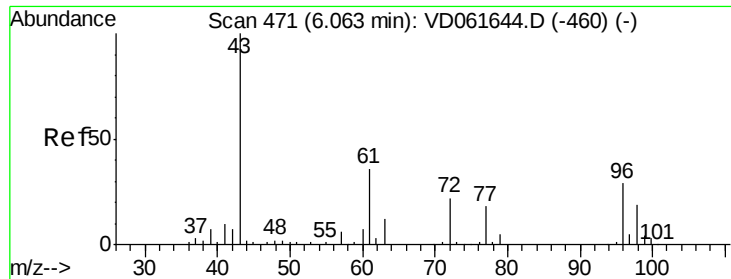
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 54.332 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.04 min

Lab File: VD061686.D

Acq: 9 Apr 2019 20:29

Instrument :

MSVOA_D

ClientSampleId :

20190171-COMP-CS-3

Tgt Ion: 43 Resp: 45992

Ion Ratio Lower Upper

43 100

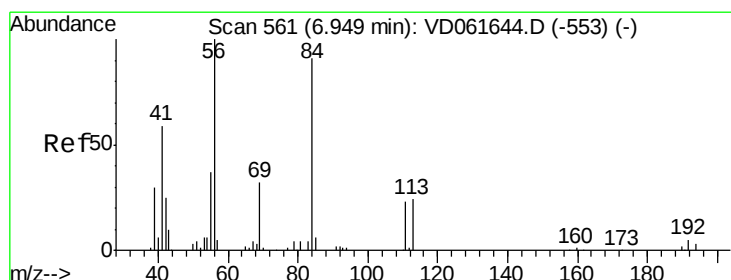
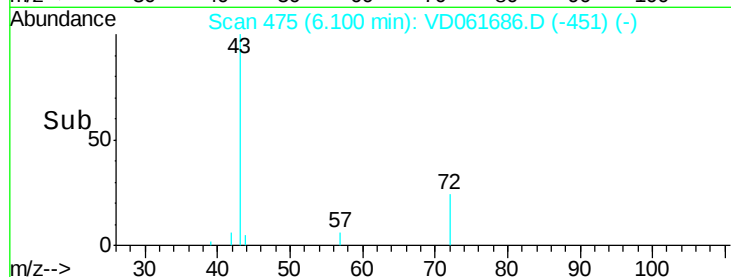
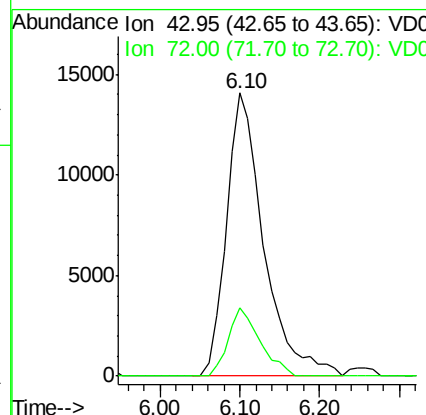
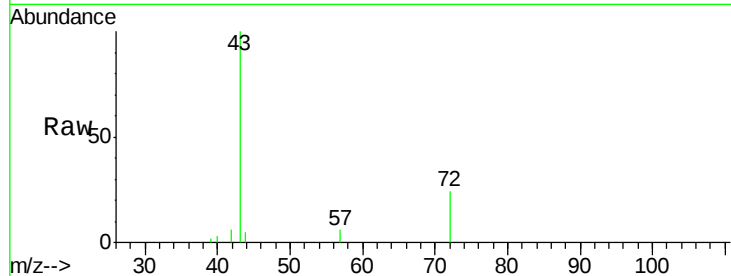
72 24.1 17.4 26.2

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#31

Cyclohexane

Concen: 5.002 ug/l

RT: 7.00 min Scan# 566

Delta R.T. 0.05 min

Lab File: VD061686.D

Acq: 9 Apr 2019 20:29

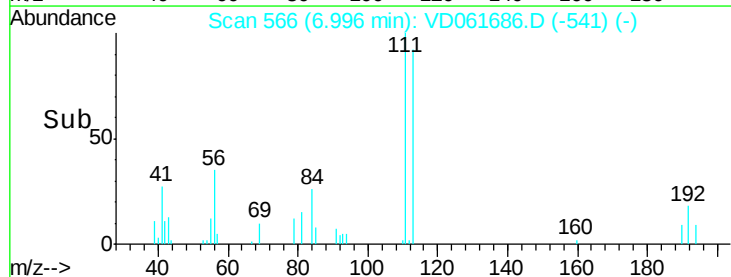
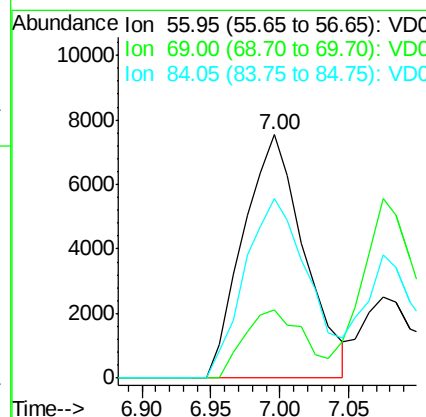
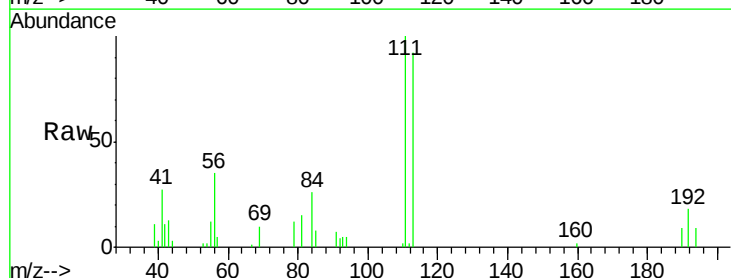
Tgt Ion: 56 Resp: 23132

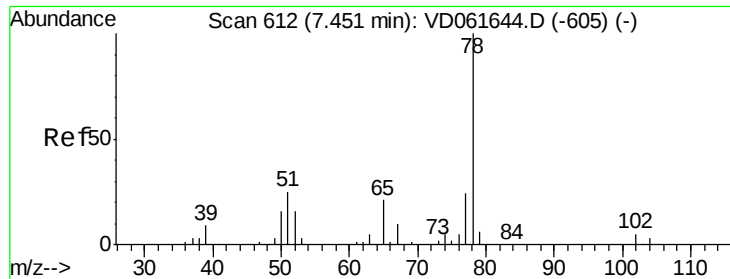
Ion Ratio Lower Upper

56 100

69 28.3 25.8 38.6

84 73.9 74.2 111.2#





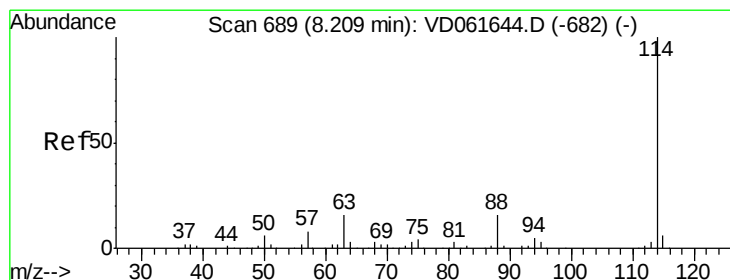
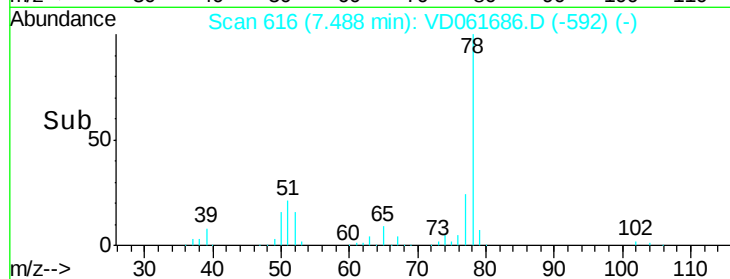
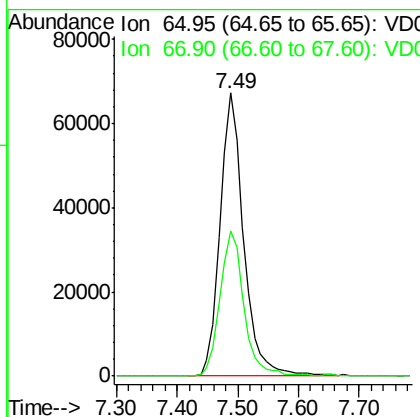
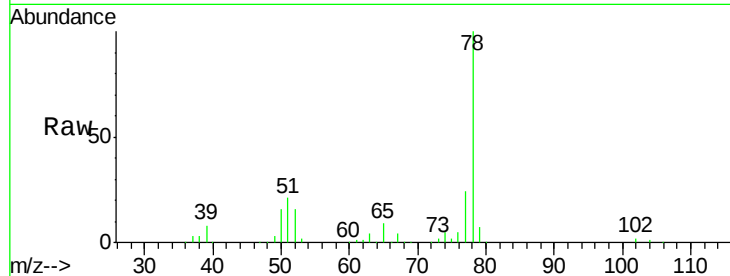
#33
 1,2-Dichloroethane-d4
 Concen: 73.958 ug/l
 RT: 7.49 min Scan# 616
 Delta R.T. 0.04 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	181664		
67	51.4	0.0	99.4	

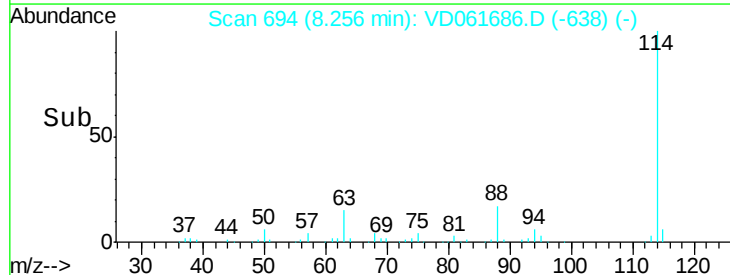
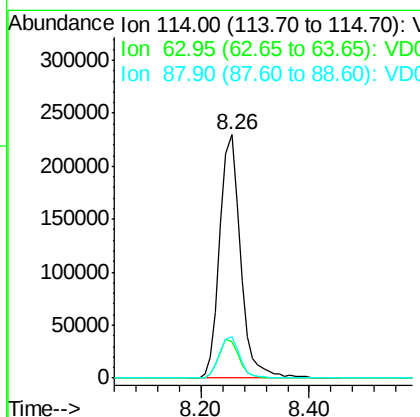
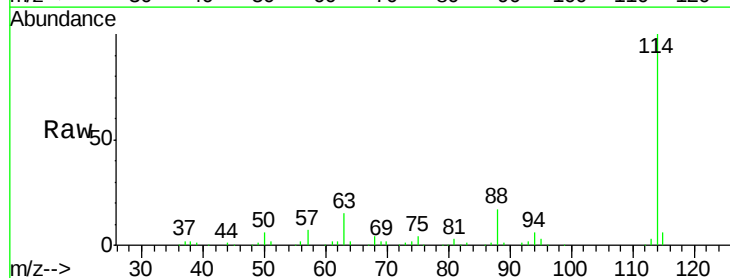
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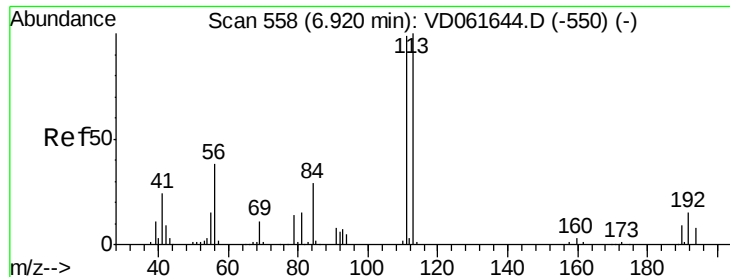
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.26 min Scan# 694
 Delta R.T. 0.05 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	613822		
63	14.8	0.0	31.2	
88	17.1	0.0	31.8	





#35

Dibromofluoromethane

Concen: 62.957 ug/l

RT: 6.97 min Scan# 563

Delta R.T. 0.05 min

Lab File: VD061686.D

Acq: 9 Apr 2019 20:29

Instrument :

MSVOA_D

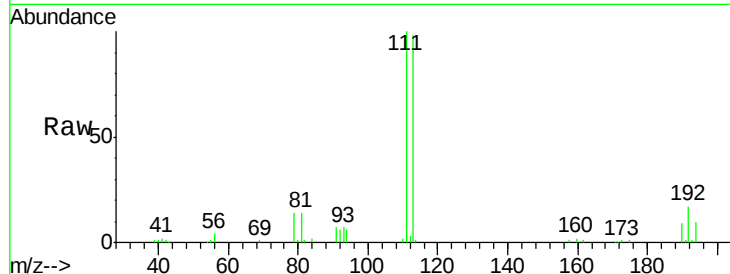
ClientSampleId :

20190171-COMP-CS-3

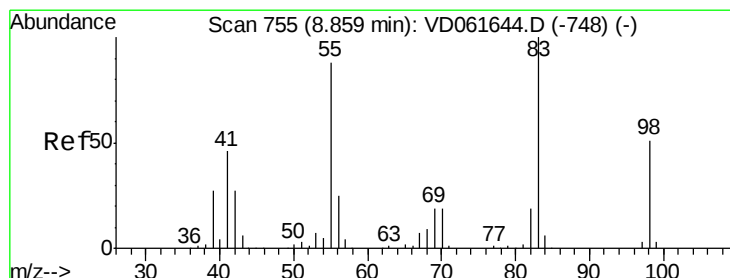
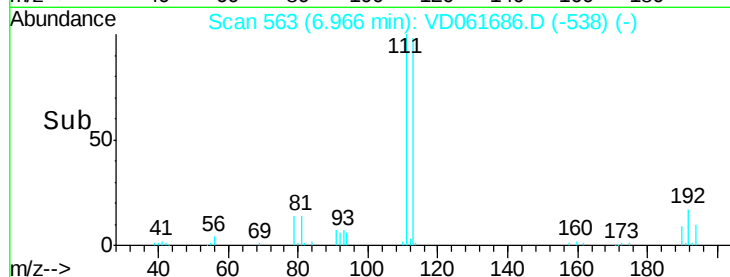
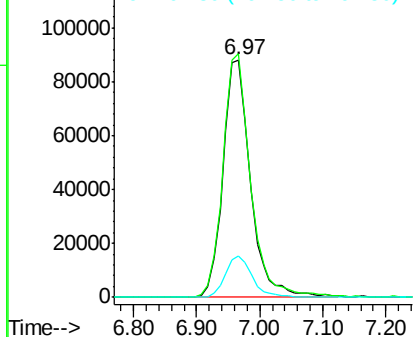
Tgt Ion:	113	Resp:	267718
Ion Ratio	Lower	Upper	
113	100		
111	102.5	79.3	118.9
192	17.6	12.3	18.5

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Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#39

Methylcyclohexane

Concen: 3.552 ug/l

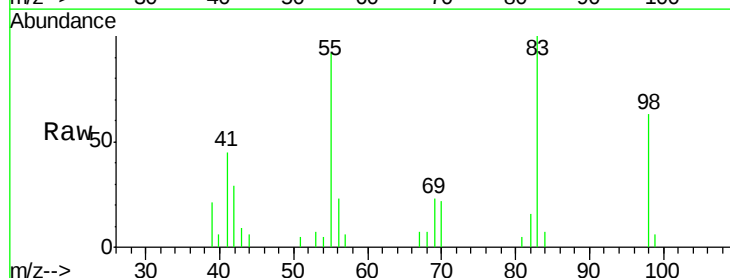
RT: 8.90 min Scan# 759

Delta R.T. 0.04 min

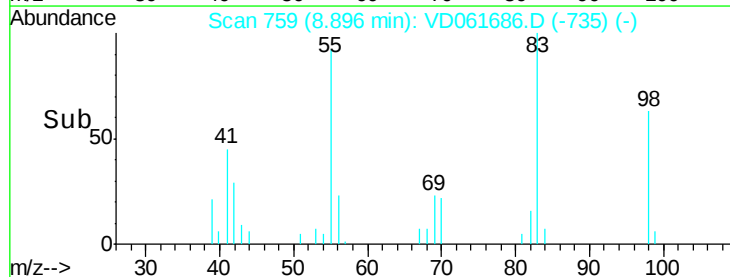
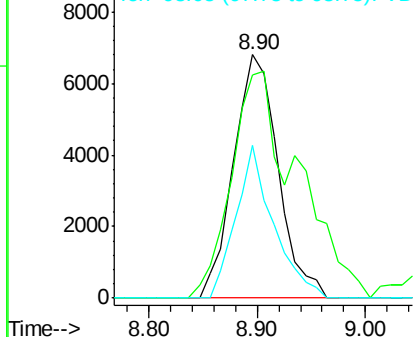
Lab File: VD061686.D

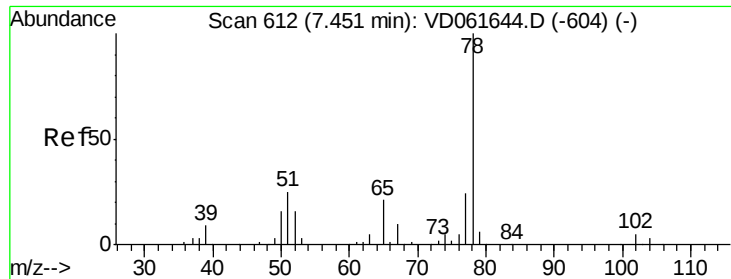
Acq: 9 Apr 2019 20:29

Tgt Ion:	83	Resp:	19588
Ion Ratio	Lower	Upper	
83	100		
55	91.7	70.3	105.5
98	62.6	41.0	61.6#



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC





#40

Benzene

Concen: 177.994 ug/l

RT: 7.49 min Scan# 616

Delta R.T. 0.04 min

Lab File: VD061686.D

Acq: 9 Apr 2019 20:29

Instrument :

MSVOA_D

ClientSampleId :

20190171-COMP-CS-3

Tgt Ion: 78 Resp: 2306804

Ion Ratio Lower Upper

78 100

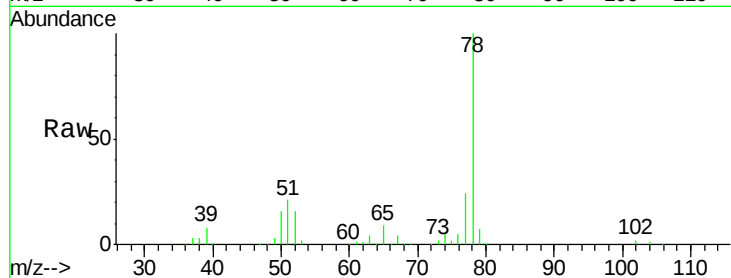
77 24.4 19.5 29.3

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Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

800000

600000

400000

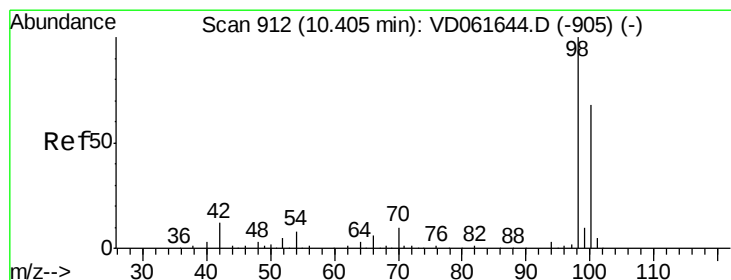
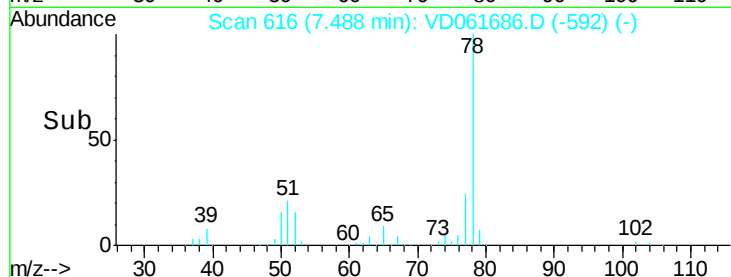
200000

0

7.49

7.30 7.40 7.50 7.60 7.70

Time-->



#50

Toluene-d8

Concen: 45.623 ug/l

RT: 10.44 min Scan# 916

Delta R.T. 0.04 min

Lab File: VD061686.D

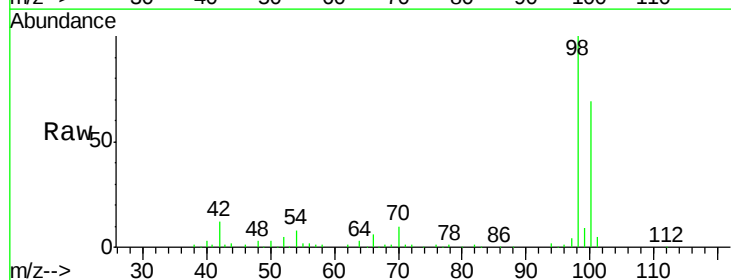
Acq: 9 Apr 2019 20:29

Tgt Ion: 98 Resp: 487428

Ion Ratio Lower Upper

98 100

100 68.9 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

200000

150000

100000

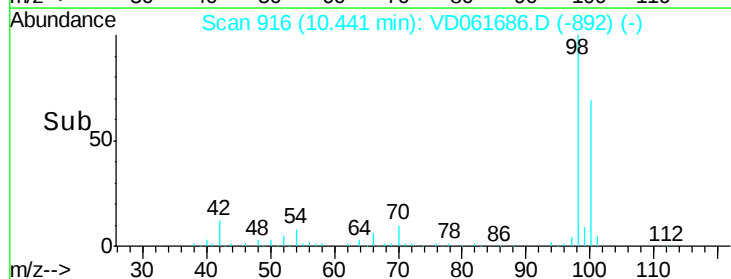
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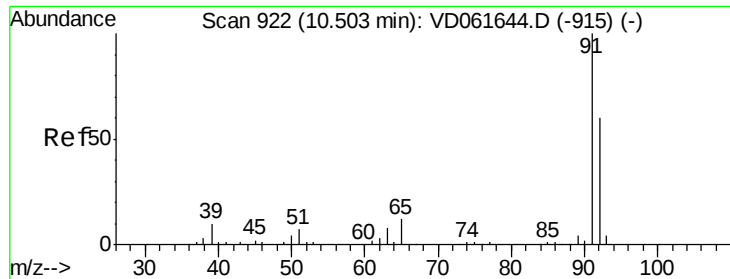
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10.44

10.30 10.40 10.50 10.60

Time-->





#52

Toluene

Concen: 27.581 ug/l

RT: 10.54 min Scan# 926

Delta R.T. 0.04 min

Lab File: VD061686.D

Acq: 9 Apr 2019 20:29

Instrument :

MSVOA_D

ClientSampleId :

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Tgt Ion: 92 Resp: 223206

Ion Ratio Lower Upper

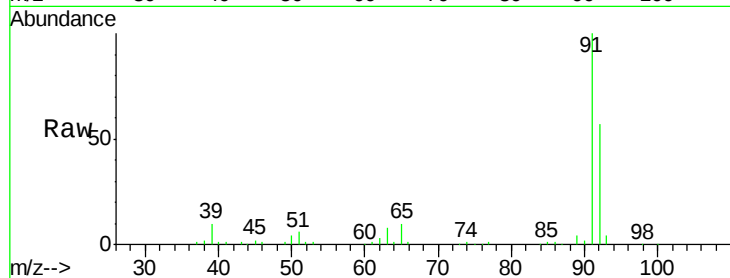
92 100

91 175.6 133.0 199.4

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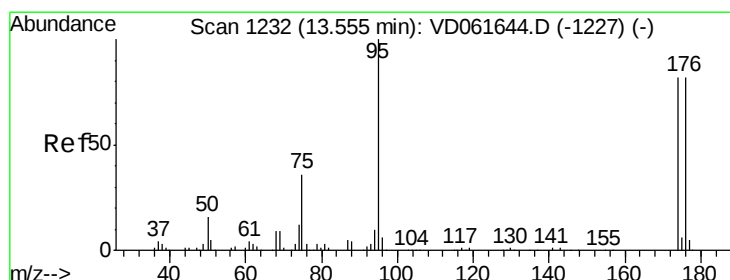
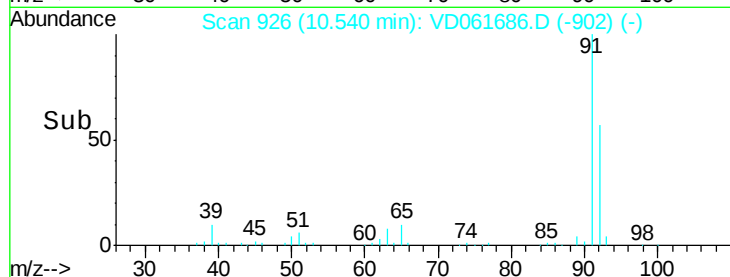
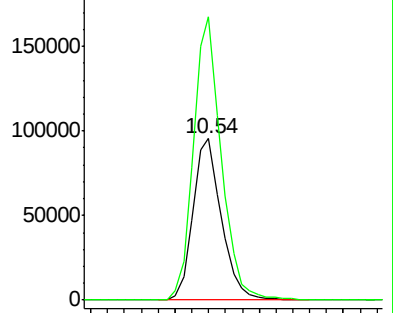
MMDadoda

4/11/2019 3:00:03 AM



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 29.563 ug/l m

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD061686.D

Acq: 9 Apr 2019 20:29

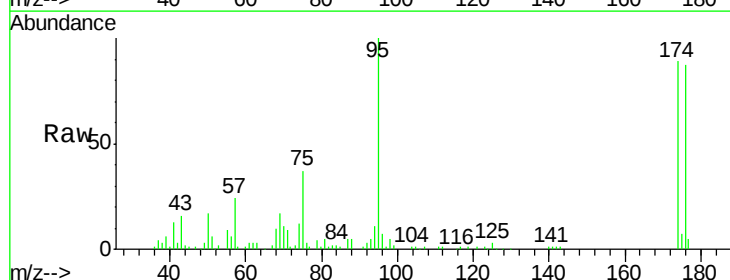
Tgt Ion: 95 Resp: 121211

Ion Ratio Lower Upper

95 100

174 88.8 0.0 164.6

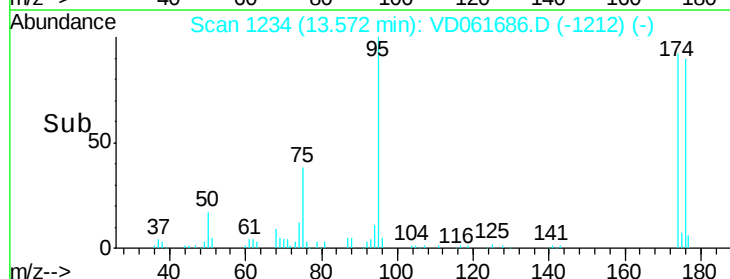
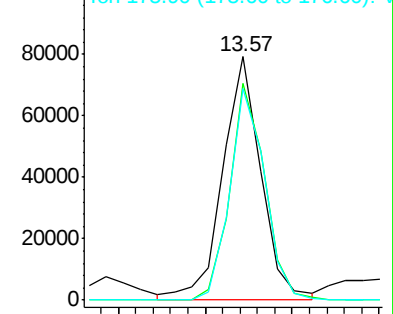
176 87.0 0.0 165.0

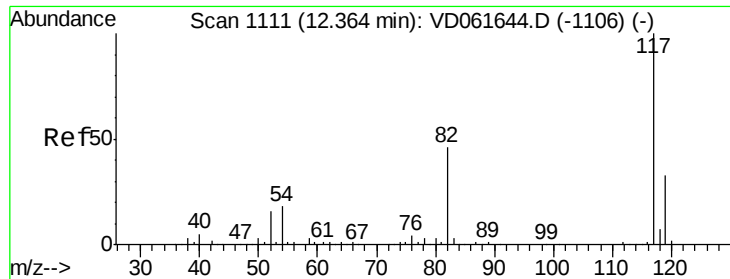


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





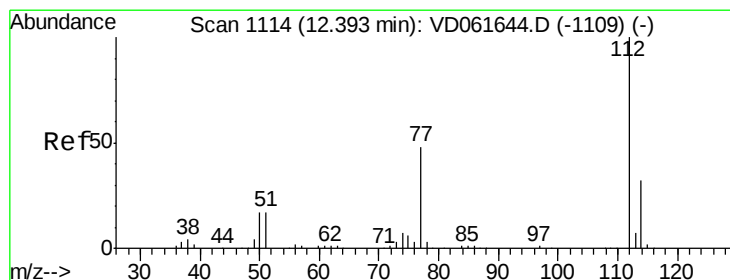
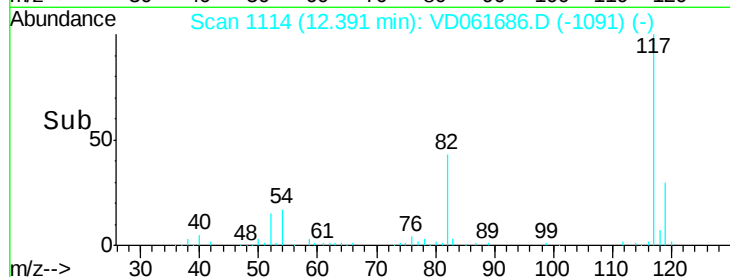
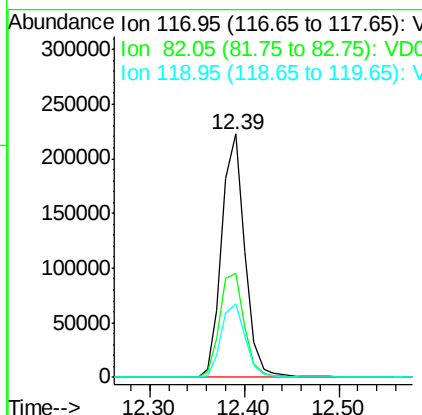
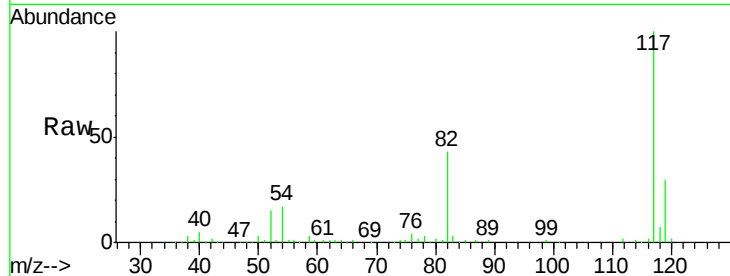
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.03 min
Lab File: VD061686.D
Acq: 9 Apr 2019 20:29

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion	Ratio	Lower	Upper
117	100		
82	42.6	36.8	55.2
119	30.2	26.1	39.1

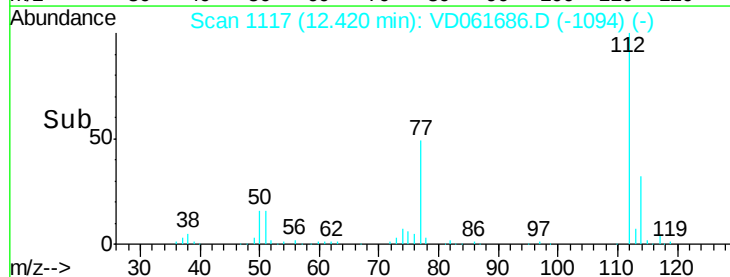
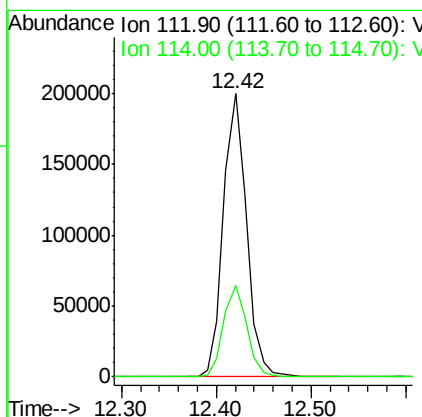
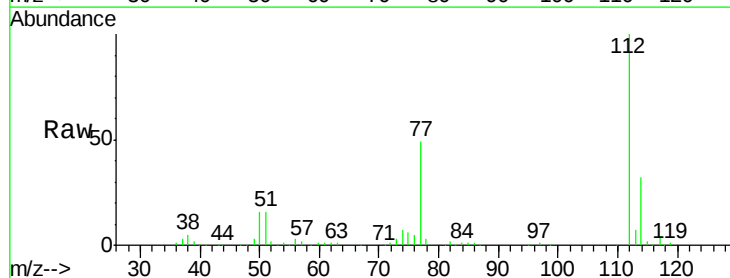
Manual Integrations
APPROVED

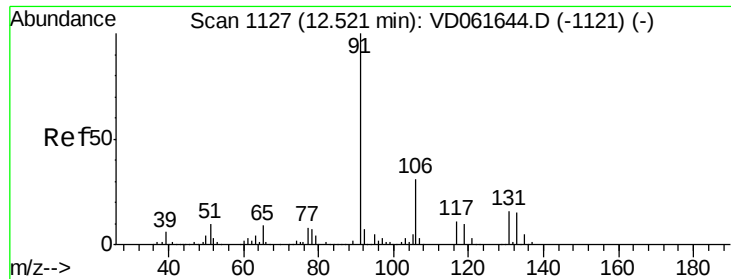
MMDadoda
4/11/2019 3:00:03 AM



#65
Chlorobenzene
Concen: 45.539 ug/l
RT: 12.42 min Scan# 1117
Delta R.T. 0.03 min
Lab File: VD061686.D
Acq: 9 Apr 2019 20:29

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.6	38.4





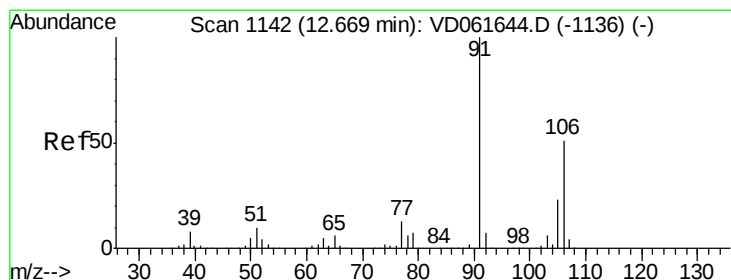
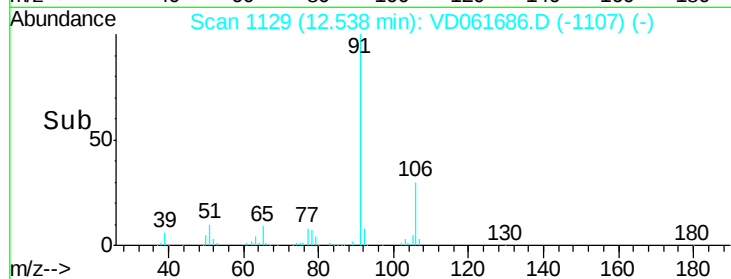
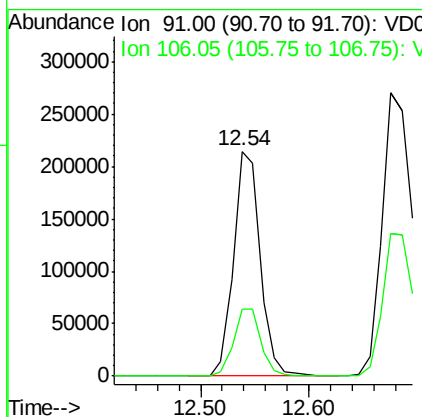
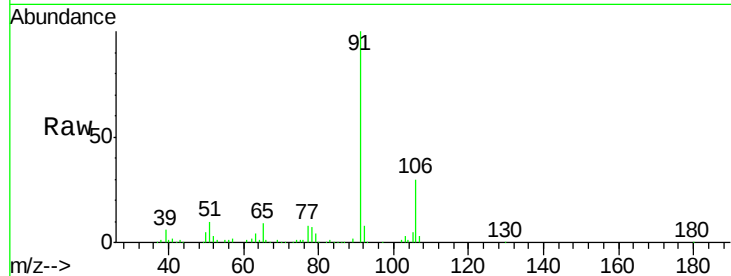
#67
Ethyl Benzene
Concen: 32.431 ug/l
RT: 12.54 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD061686.D
Acq: 9 Apr 2019 20:29

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion: 91 Resp: 367376
Ion Ratio Lower Upper
91 100
106 29.5 24.6 37.0

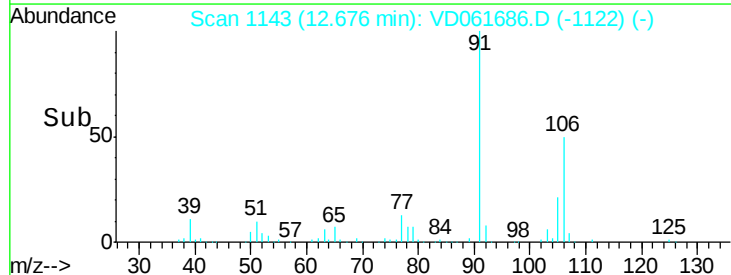
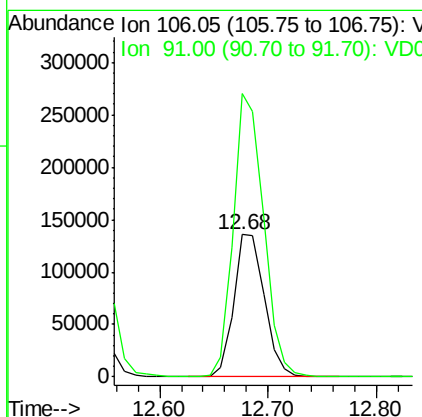
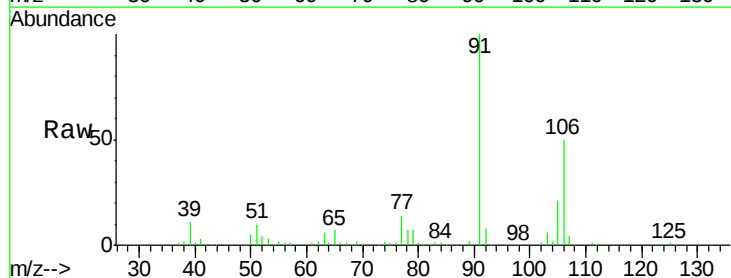
Manual Integrations
APPROVED

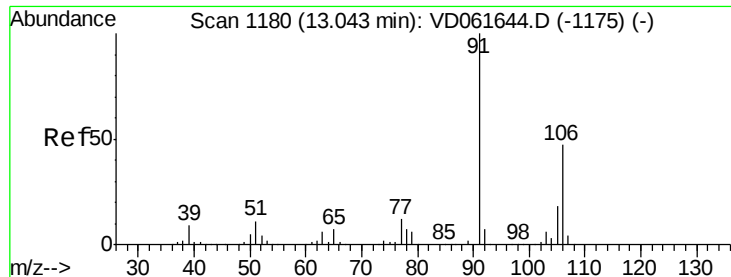
MMDadoda
4/11/2019 3:00:03 AM



#68
m/p-Xylenes
Concen: 61.175 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD061686.D
Acq: 9 Apr 2019 20:29

Tgt Ion: 106 Resp: 267161
Ion Ratio Lower Upper
106 100
91 198.7 156.7 235.1





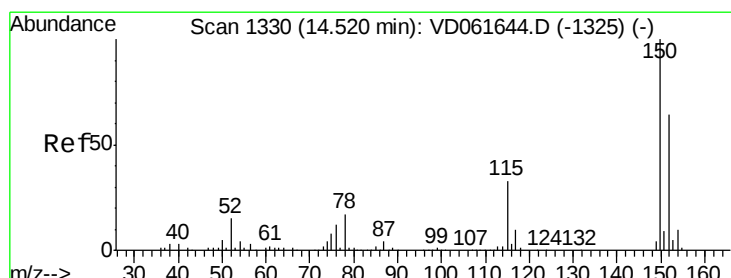
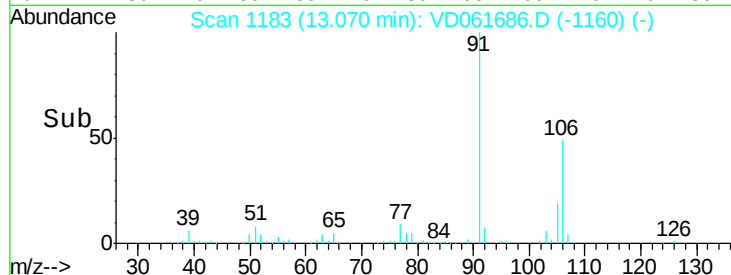
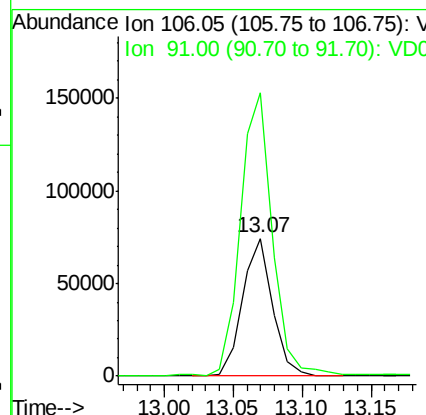
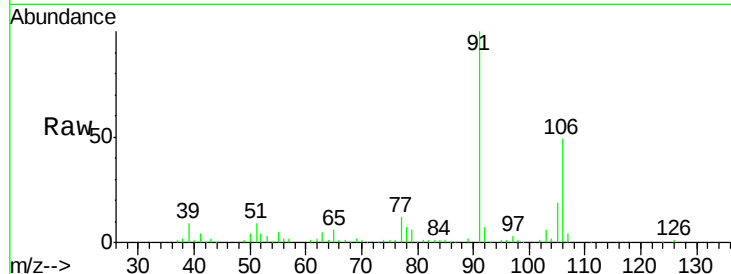
#69
o-Xylene
Concen: 26.713 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.03 min
Lab File: VD061686.D
Acq: 9 Apr 2019 20:29

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion:106 Resp: 112614
Ion Ratio Lower Upper
106 100
91 205.0 107.3 321.9

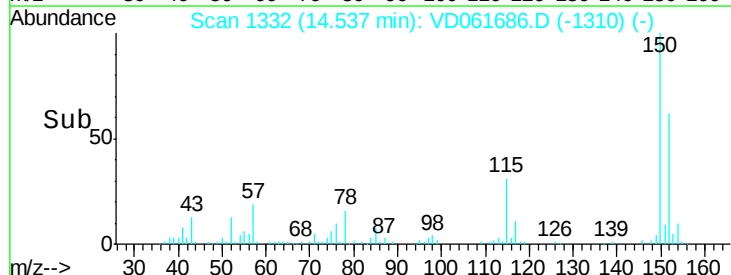
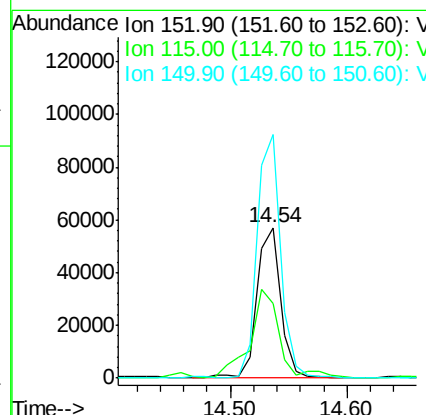
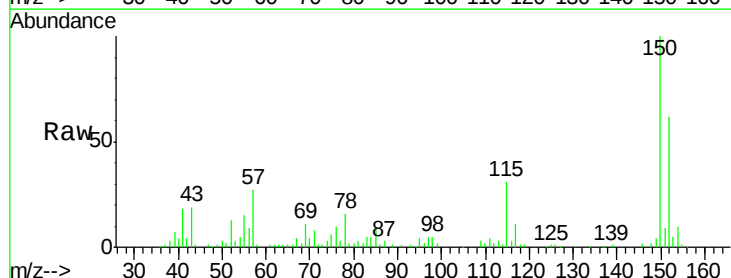
Manual Integrations
APPROVED

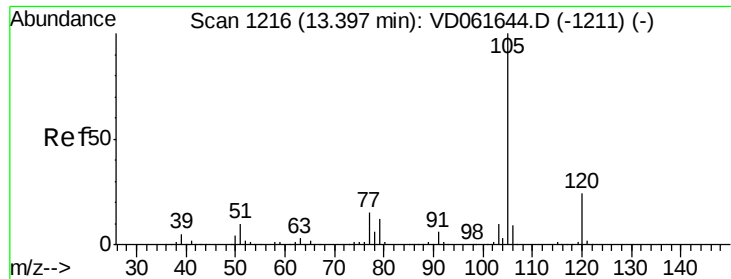
MMDadoda
4/11/2019 3:00:03 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.54 min Scan# 1332
Delta R.T. 0.02 min
Lab File: VD061686.D
Acq: 9 Apr 2019 20:29

Tgt Ion:152 Resp: 81163
Ion Ratio Lower Upper
152 100
115 49.9 26.4 79.2
150 161.9 0.0 320.6





#73

Isopropylbenzene

Concen: 150.557 ug/l

RT: 13.42 min Scan# 1219

Delta R.T. 0.03 min

Lab File: VD061686.D

Acq: 9 Apr 2019 20:29

Instrument :

MSVOA_D

ClientSampleId :

20190171-COMP-CS-3

Tgt Ion: 105 Resp: 814206

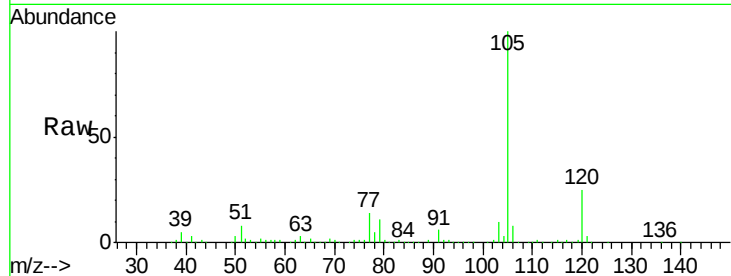
Ion Ratio Lower Upper

105 100

120 25.4 12.2 36.4

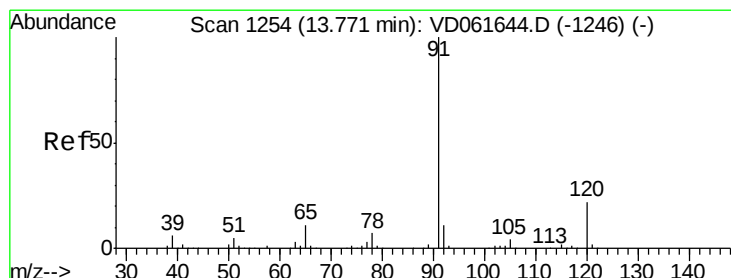
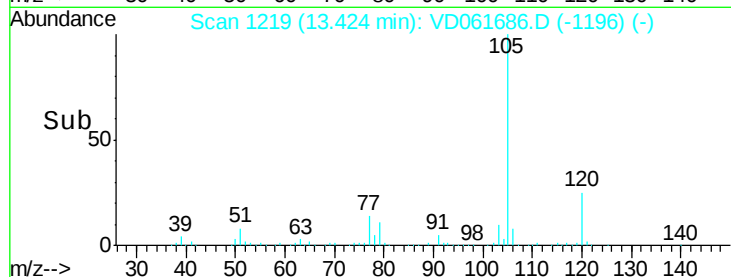
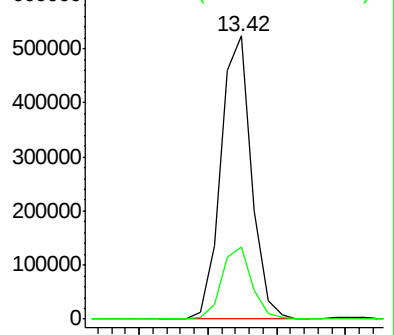
Manual Integrations
APPROVED

MMDadoda
4/11/2019 3:00:03 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#78

n-propylbenzene

Concen: 12.773 ug/l

RT: 13.79 min Scan# 1256

Delta R.T. 0.02 min

Lab File: VD061686.D

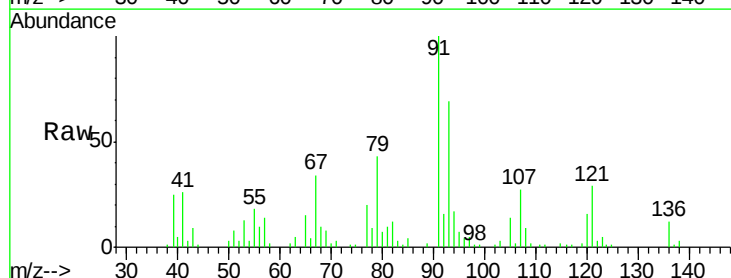
Acq: 9 Apr 2019 20:29

Tgt Ion: 91 Resp: 82632

Ion Ratio Lower Upper

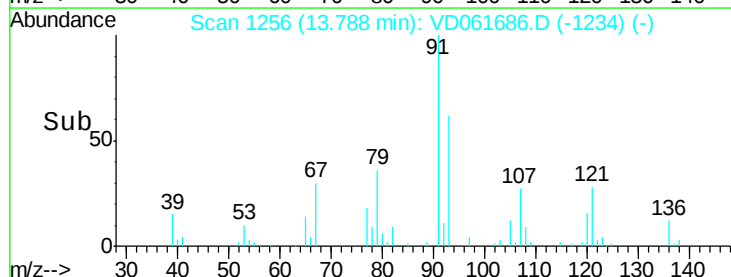
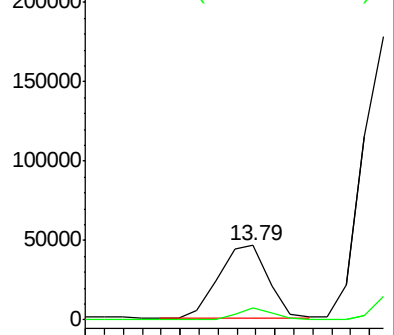
91 100

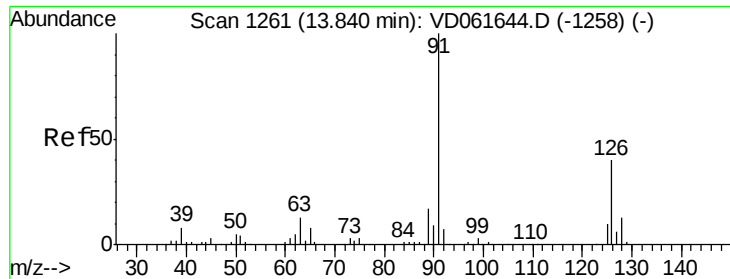
120 16.0 10.8 32.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





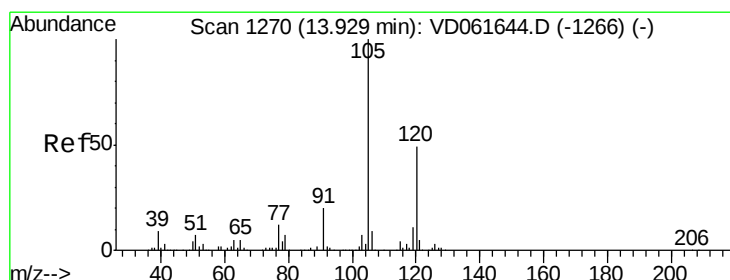
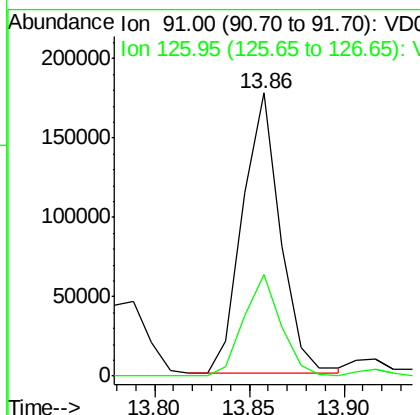
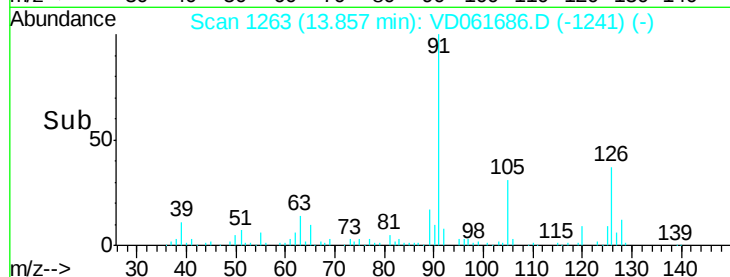
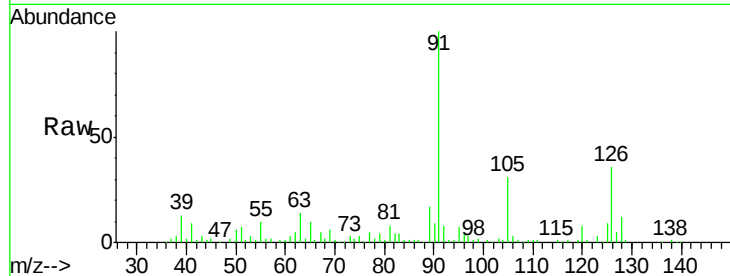
#79
 2-Chlorotoluene
 Concen: 66.146 ug/l
 RT: 13.86 min Scan# 1263
 Delta R.T. 0.02 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Tgt Ion: 91 Resp: 244697
 Ion Ratio Lower Upper
 91 100
 126 35.7 20.0 59.9

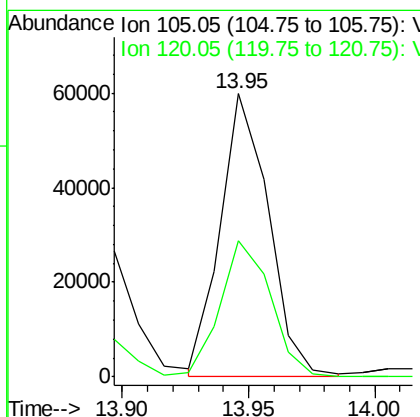
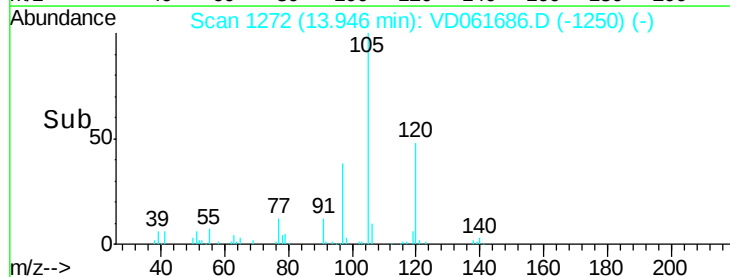
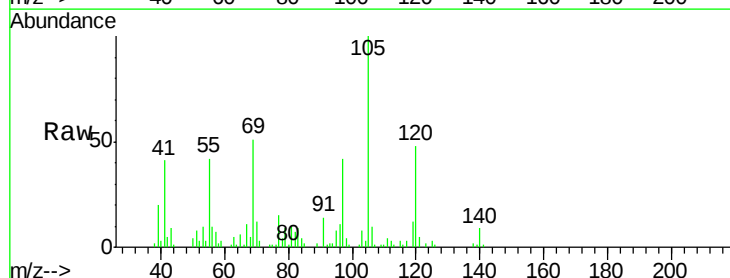
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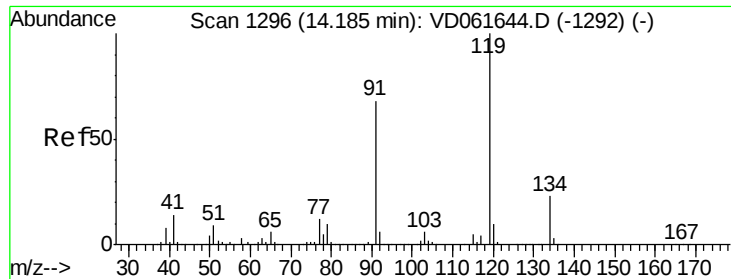
MMDadoda
 4/11/2019 3:00:03 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 18.466 ug/l
 RT: 13.95 min Scan# 1272
 Delta R.T. 0.02 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Tgt Ion: 105 Resp: 79264
 Ion Ratio Lower Upper
 105 100
 120 47.9 24.4 73.2





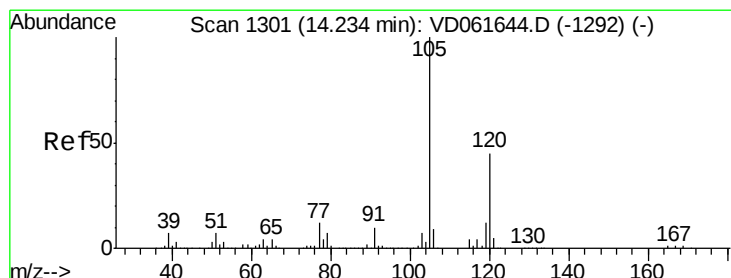
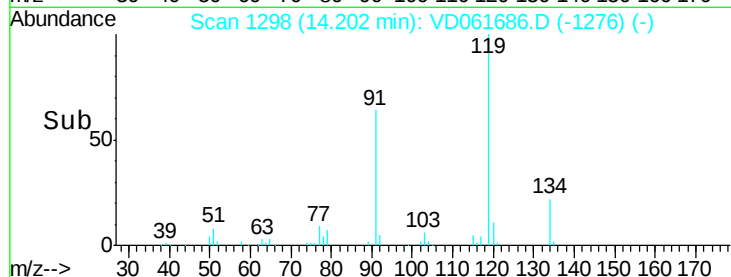
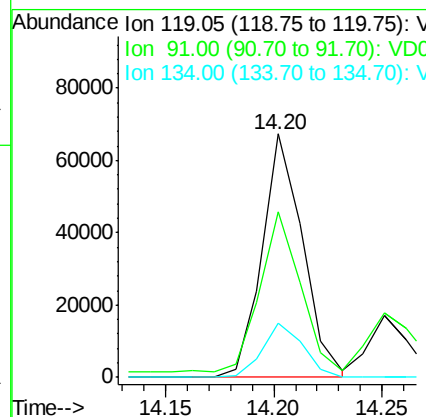
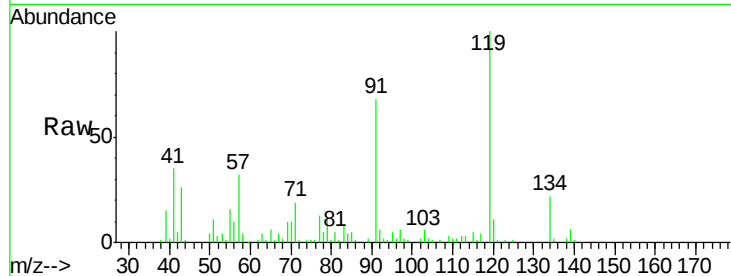
#83
 tert-Butylbenzene
 Concen: 16.887 ug/l
 RT: 14.20 min Scan# 1298
 Delta R.T. 0.02 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	87395		
91	67.9	33.9	101.6	
134	22.3	11.6	34.8	

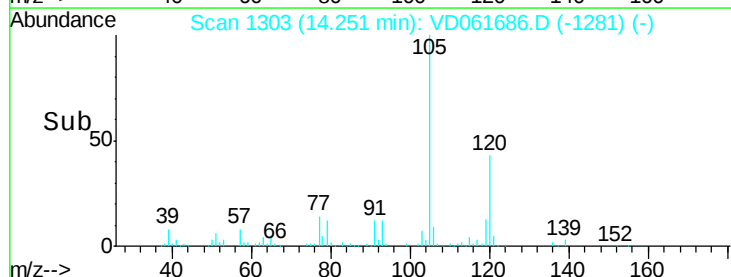
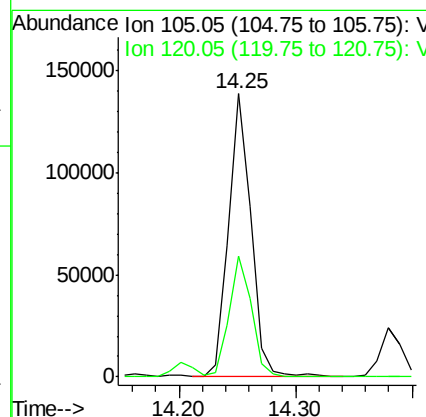
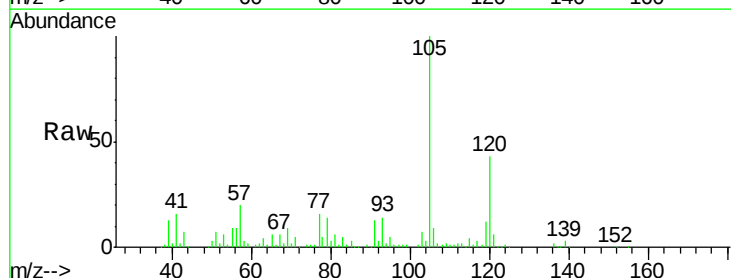
Manual Integrations
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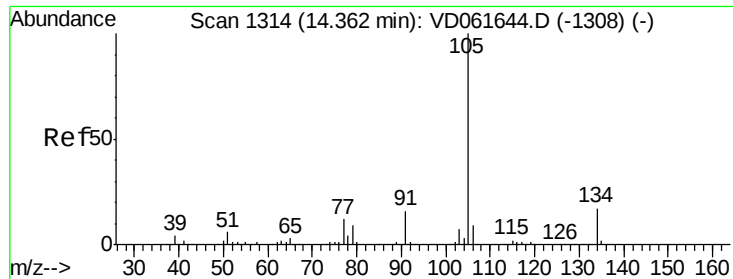
MMDadoda
 4/11/2019 3:00:03 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 42.974 ug/l
 RT: 14.25 min Scan# 1303
 Delta R.T. 0.02 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	186167		
120	42.6	22.6	67.8	





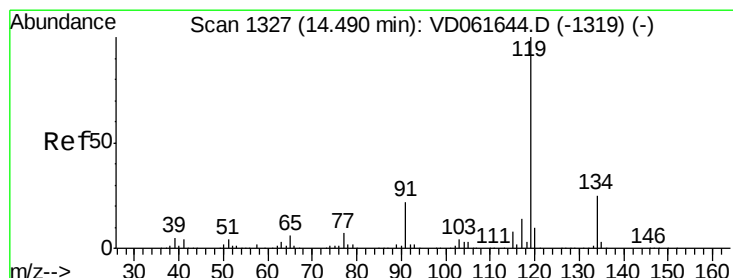
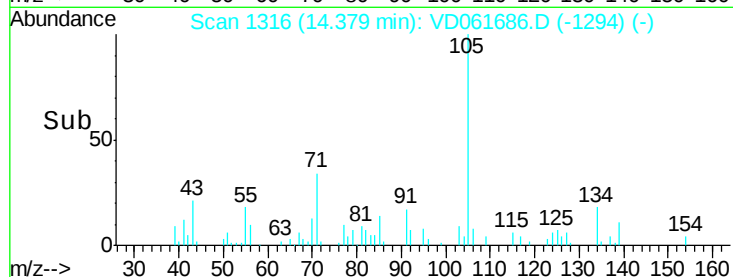
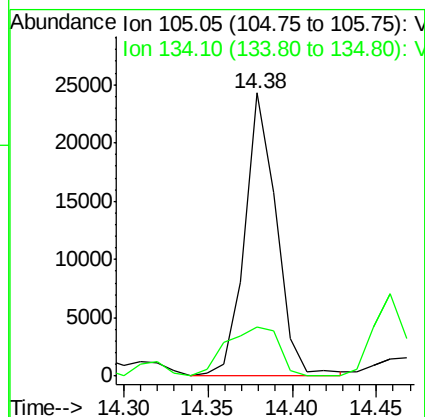
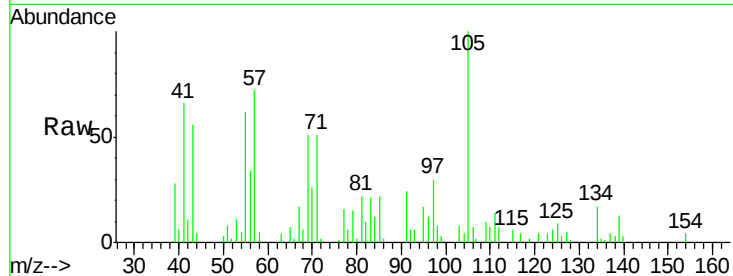
#85
 sec-Butylbenzene
 Concen: 5.685 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.02 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Tgt Ion:105 Resp: 31787
 Ion Ratio Lower Upper
 105 100
 134 17.4 8.6 25.7

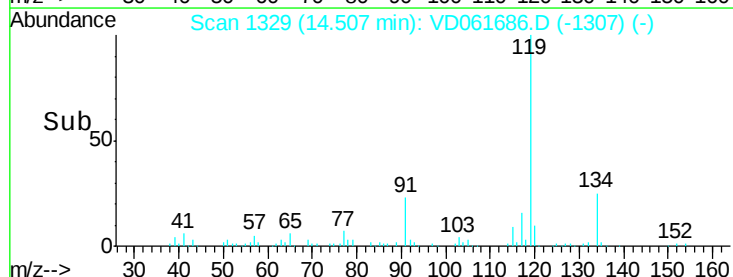
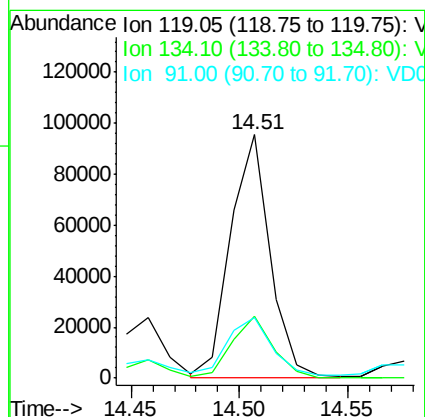
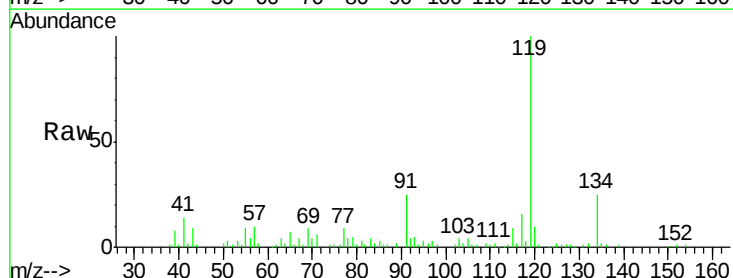
Manual Integrations
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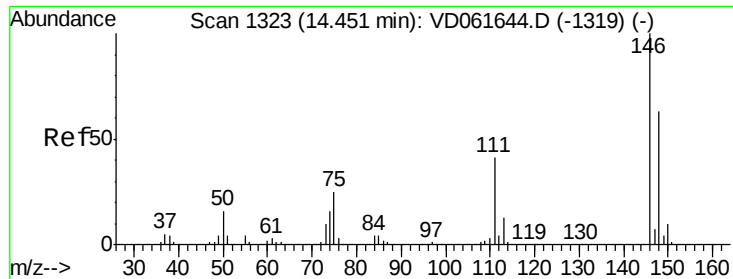
MMDadoda
 4/11/2019 3:00:03 AM



#86
 p-Isopropyltoluene
 Concen: 25.092 ug/l
 RT: 14.51 min Scan# 1329
 Delta R.T. 0.02 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Tgt Ion:119 Resp: 121712
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.5 37.5
 91 24.8 11.0 33.0





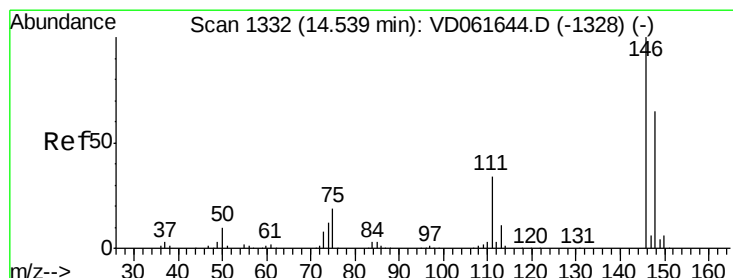
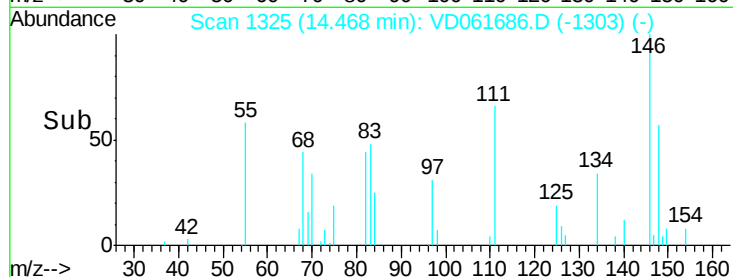
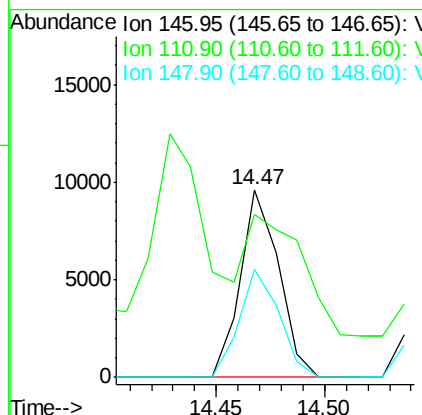
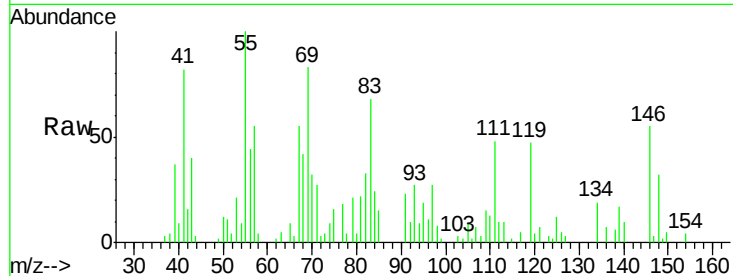
#87
 1,3-Dichlorobenzene
 Concen: 4.427 ug/l
 RT: 14.47 min Scan# 1325
 Delta R.T. 0.02 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Tgt Ion:146 Resp: 11959
 Ion Ratio Lower Upper
 146 100
 111 87.1 20.3 61.0#
 148 57.5 31.7 95.1

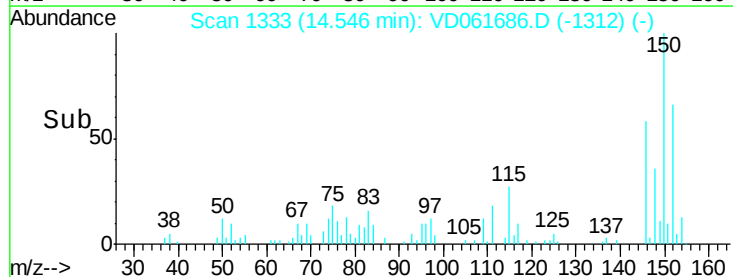
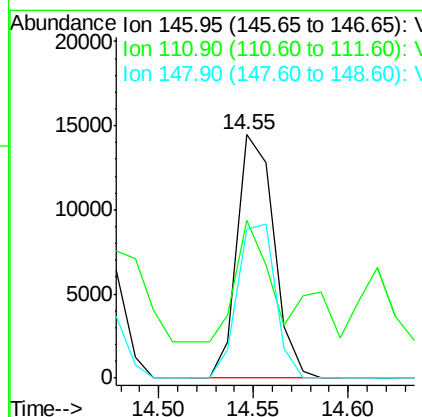
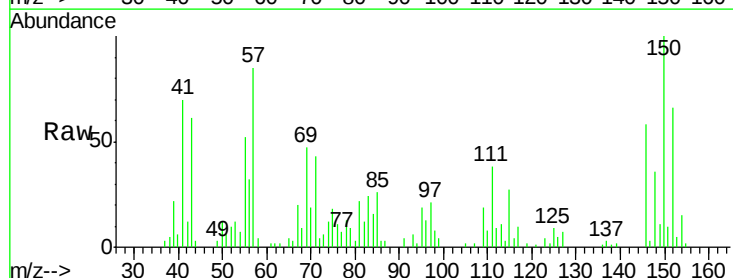
Manual Integrations
 APPROVED

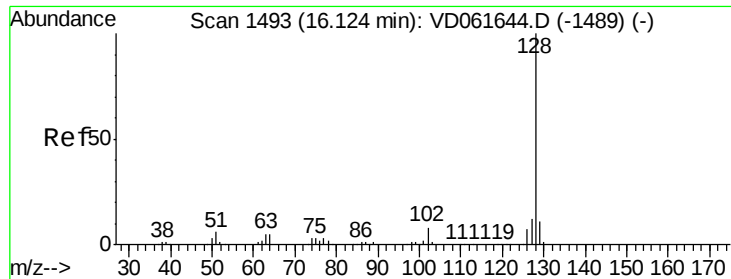
MMDadoda
 4/11/2019 3:00:03 AM



#88
 1,4-Dichlorobenzene
 Concen: 7.135 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD061686.D
 Acq: 9 Apr 2019 20:29

Tgt Ion:146 Resp: 19449
 Ion Ratio Lower Upper
 146 100
 111 64.7 17.1 51.2#
 148 61.2 32.6 97.7





#95
Naphthalene
Concen: 27.249 ug/l
RT: 16.14 min Scan# 1495
Delta R.T. 0.02 min
Lab File: VD061686.D
Acq: 9 Apr 2019 20:29

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.4	14.2
129	11.7	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
4/11/2019 3:00:03 AM

