

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122618\
 Data File : VD060717.D
 Acq On : 26 Dec 2018 17:42
 Operator : VA/AP
 Sample : J6195-13
 Misc : 7.04g/5ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-122618-B

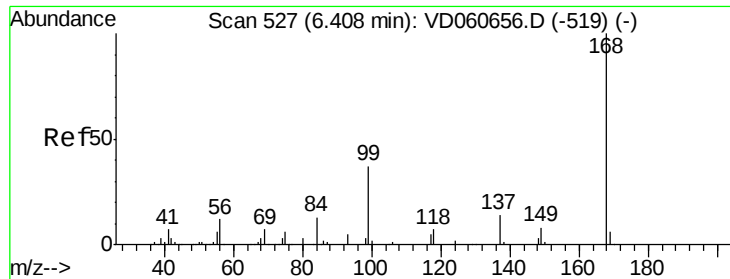
Quant Time: Dec 27 01:50:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1562256	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	2188031	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	1599909	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.36	152	605078	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	561805	52.04	ug/l	-0.02
Spiked Amount			Recovery	=	104.08%	
35) Dibromofluoromethane	6.31	113	781912	48.82	ug/l	-0.02
Spiked Amount			Recovery	=	97.64%	
50) Toluene-d8	9.44	98	1964014	41.10	ug/l	-0.02
Spiked Amount			Recovery	=	82.20%	
62) 4-Bromofluorobenzene	12.41	95	606138	36.22	ug/l	-0.01
Spiked Amount			Recovery	=	72.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.87	59	1158	2.566	ug/l #	74
16) Acetone	3.16	43	45526	24.146	ug/l #	90
18) Methyl Acetate	3.54	43	4693	1.004	ug/l #	63
20) Methylene Chloride	3.72	84	117127	5.982	ug/l	97
25) 2-Butanone	5.60	43	4442	1.231	ug/l #	61
29) Tetrahydrofuran	5.92	42	2114	1.034	ug/l #	48
31) Cyclohexane	6.37	56	30694	1.126	ug/l #	1
36) 1,1-Dichloropropene	6.38	75	111595	4.953	ug/l #	48
38) Carbon Tetrachloride	6.38	117	121876	6.131	ug/l #	15
52) Toluene	9.52	92	42905	1.176	ug/l	98
69) o-Xylene	11.92	106	36381	1.733	ug/l	90
78) n-propylbenzene	12.62	91	71406	1.296	ug/l	97
80) 1,3,5-Trimethylbenzene	12.78	105	170603	5.128	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.41	75	243179	127.752	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.08	105	249411	7.279	ug/l	99
85) sec-Butylbenzene	13.20	105	52961	1.147	ug/l	95
86) p-Isopropyltoluene	13.32	119	44055	1.182	ug/l	95
89) n-Butylbenzene	13.63	91	153535	4.031	ug/l #	76
90) Hexachloroethane	13.81	117	18272	1.996	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.21	75	2142	2.611	ug/l #	2
95) Naphthalene	14.96	128	51699	3.264	ug/l #	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 524

Delta R.T. -0.02 min

Lab File: VD060717.D

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ClientSampleId :

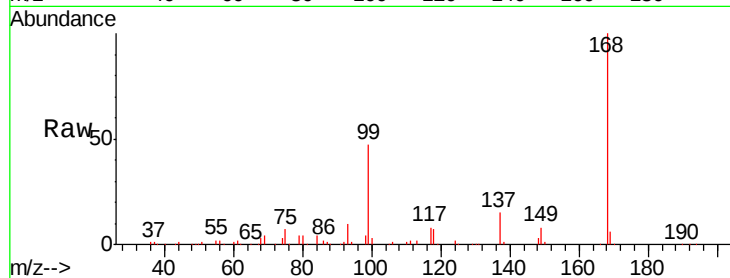
OR-01-122618-B

Tgt Ion:168 Resp: 1562256

Ion Ratio Lower Upper

168 100

99 47.5 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

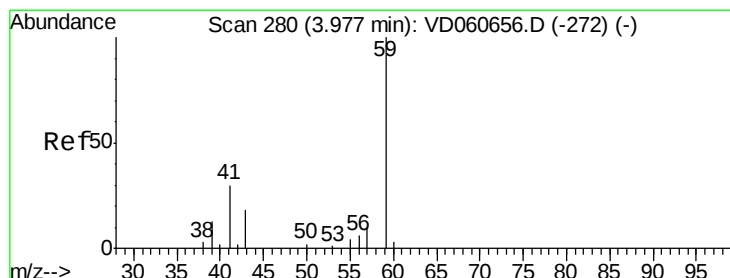
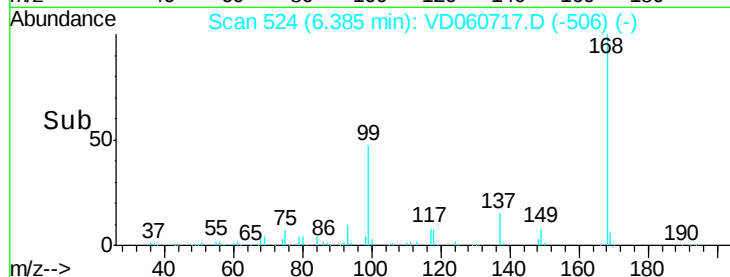
600000

400000

200000

0

Time--> 6.20 6.30 6.40 6.50 6.60



#11

Tert butyl alcohol

Concen: 2.566 ug/l

RT: 3.87 min Scan# 268

Delta R.T. -0.11 min

Lab File: VD060717.D

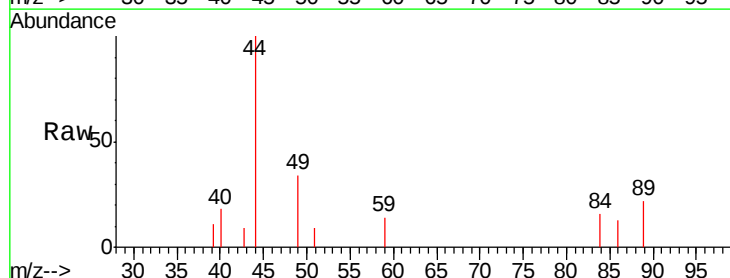
Acq: 26 Dec 2018 17:42

Tgt Ion: 59 Resp: 1158

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.87

600

500

400

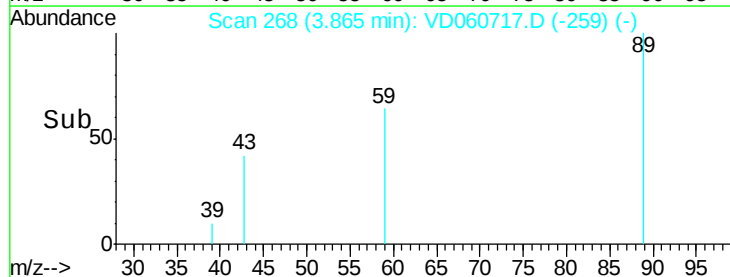
300

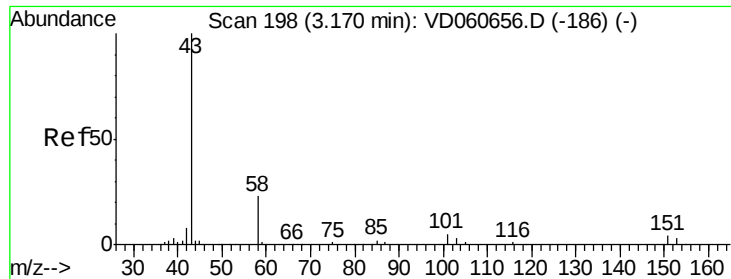
200

100

0

Time--> 3.80 3.85 3.90





#16

Acetone

Concen: 24.146 ug/l

RT: 3.16 min Scan# 196

Delta R.T. -0.01 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

Instrument :

MSVOA_D

ClientSampleId :

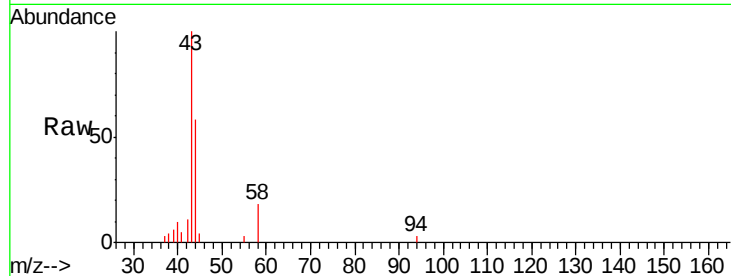
OR-01-122618-B

Tgt Ion: 43 Resp: 45526

Ion Ratio Lower Upper

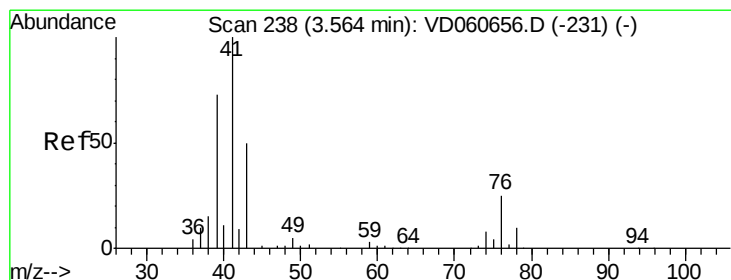
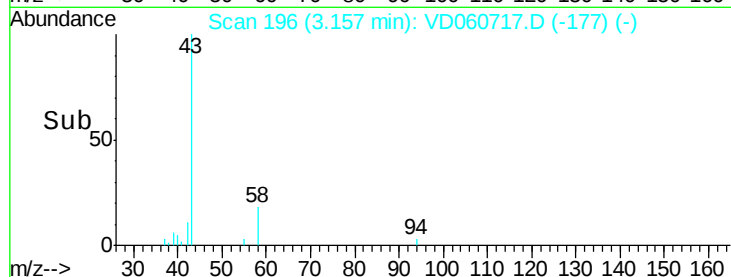
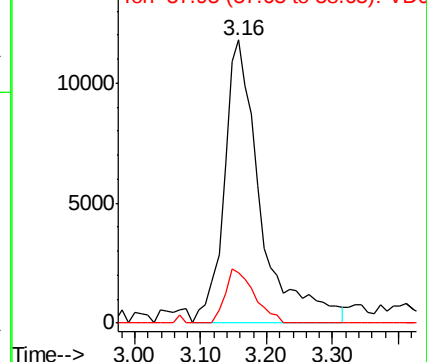
43 100

58 17.8 18.2 27.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.004 ug/l

RT: 3.54 min Scan# 235

Delta R.T. -0.02 min

Lab File: VD060717.D

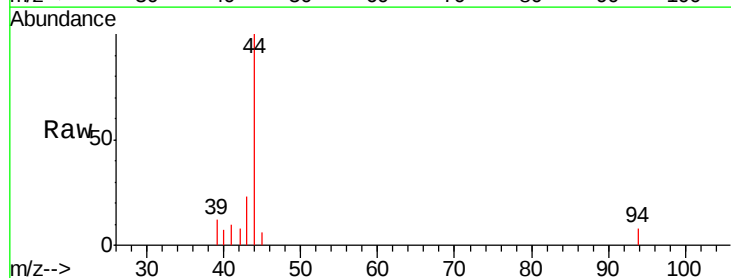
Acq: 26 Dec 2018 17:42

Tgt Ion: 43 Resp: 4693

Ion Ratio Lower Upper

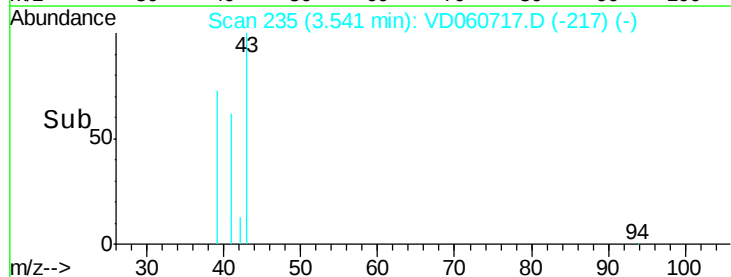
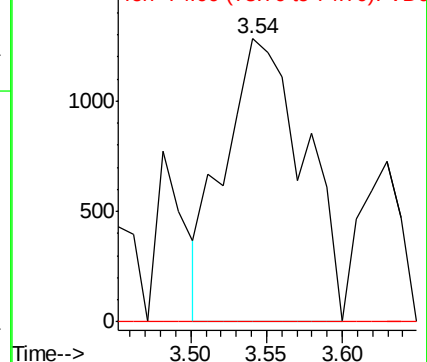
43 100

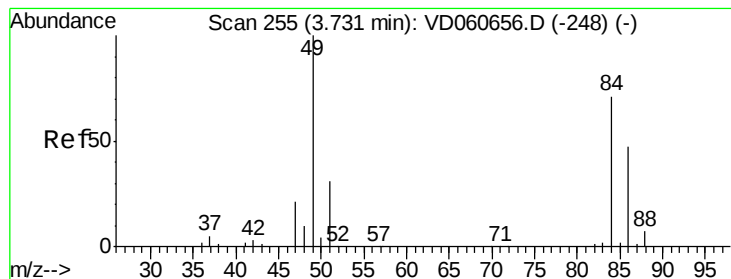
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 5.982 ug/l

RT: 3.72 min Scan# 253

Delta R.T. -0.01 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

Instrument :

MSVOA_D

ClientSampleId :

OR-01-122618-B

Tgt Ion: 84 Resp: 117127

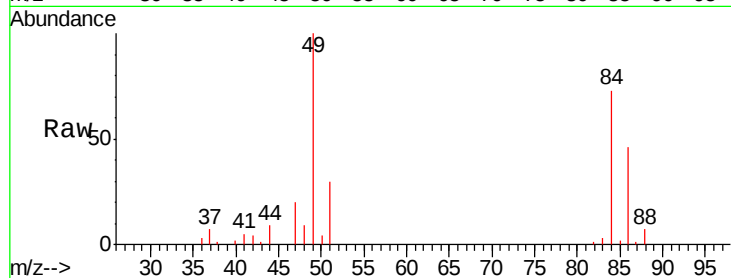
Ion Ratio Lower Upper

84 100

49 137.9 113.6 170.4

51 41.9 34.7 52.1

86 63.3 52.8 79.2

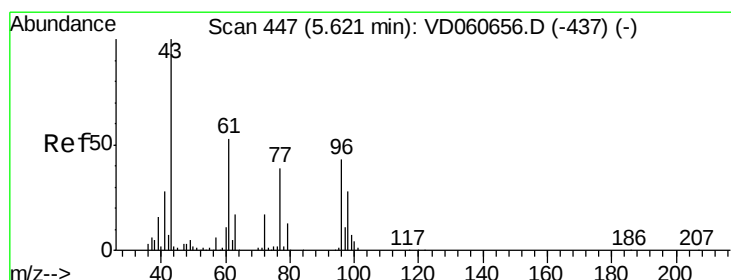
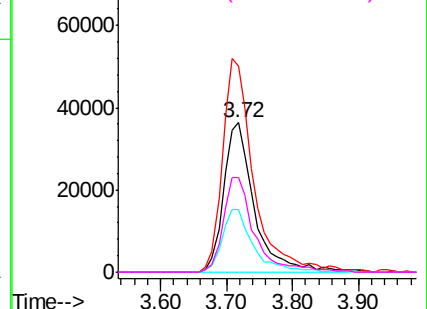
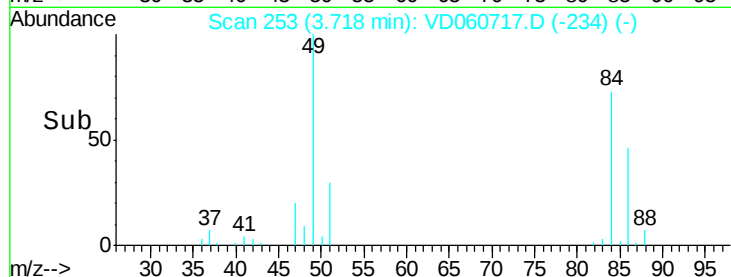


Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.231 ug/l

RT: 5.60 min Scan# 444

Delta R.T. -0.02 min

Lab File: VD060717.D

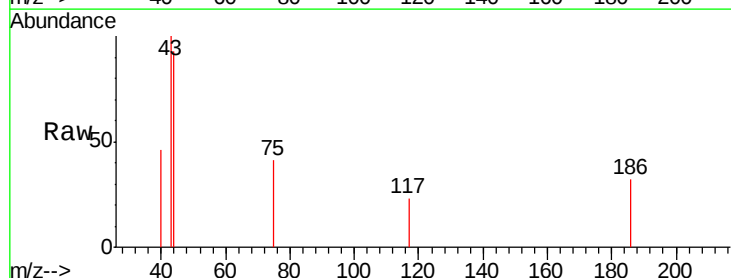
Acq: 26 Dec 2018 17:42

Tgt Ion: 43 Resp: 4442

Ion Ratio Lower Upper

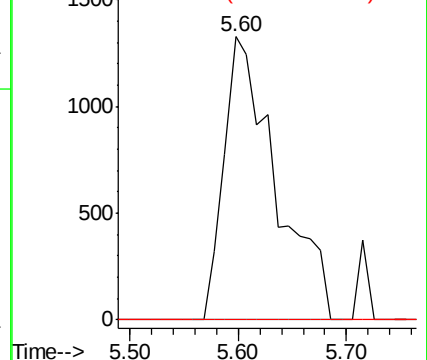
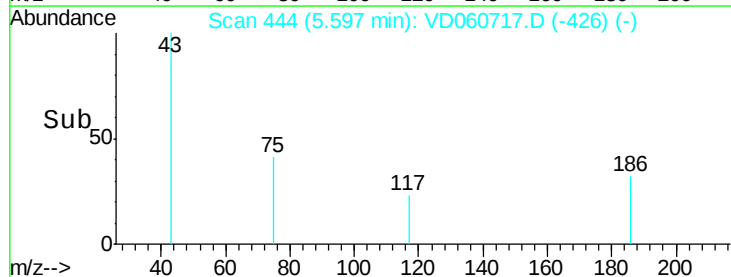
43 100

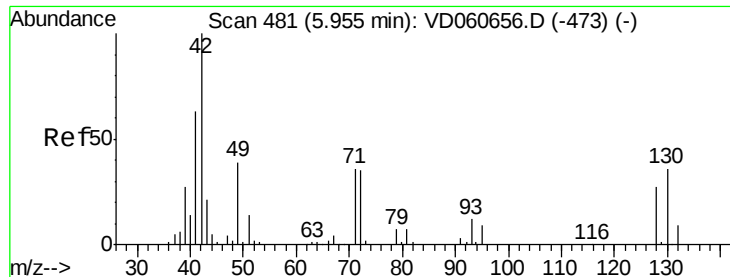
72 0.0 13.7 20.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

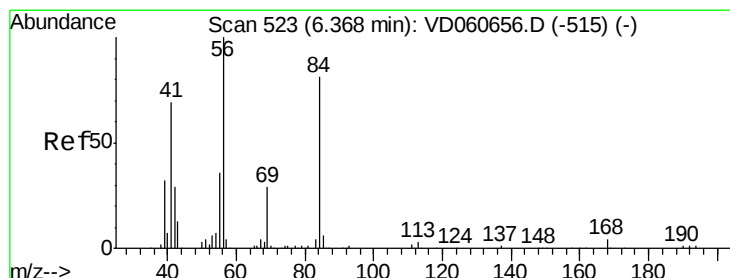
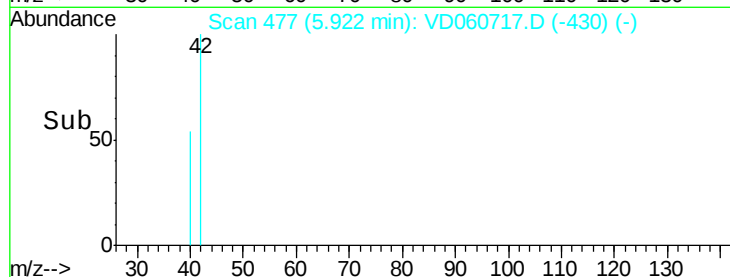
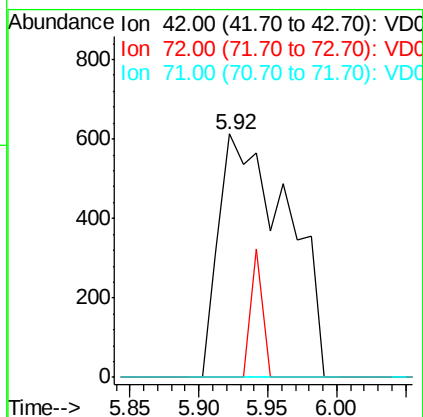
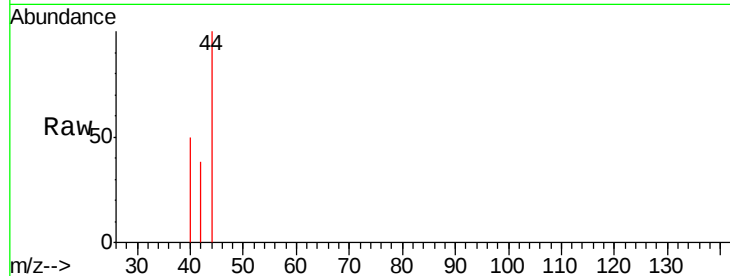




#29
Tetrahydrofuran
Concen: 1.034 ug/l
RT: 5.92 min Scan# 477
Delta R.T. -0.03 min
Lab File: VD060717.D
Acq: 26 Dec 2018 17:42

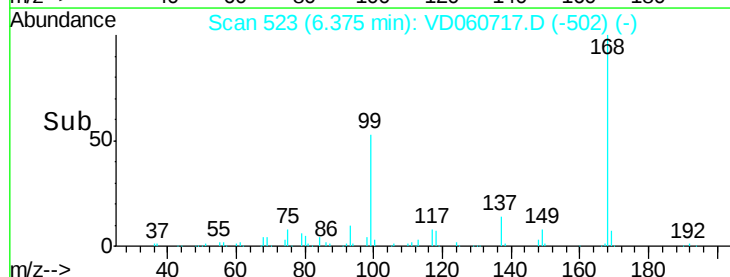
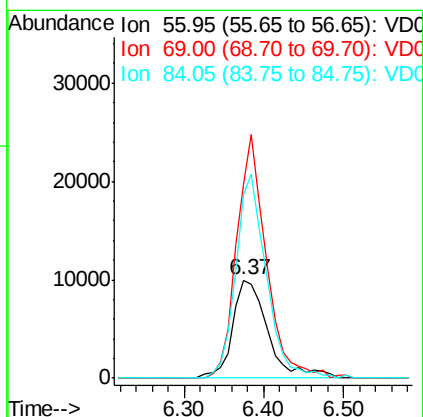
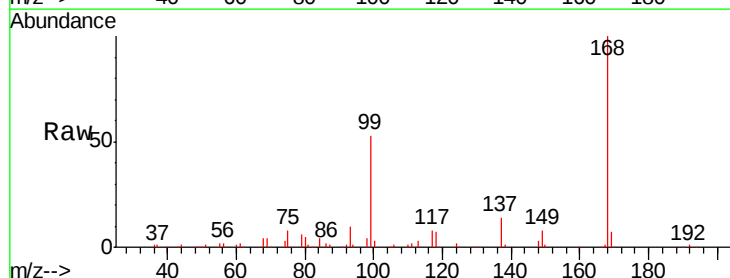
Instrument :
MSVOA_D
ClientSampleId :
OR-01-122618-B

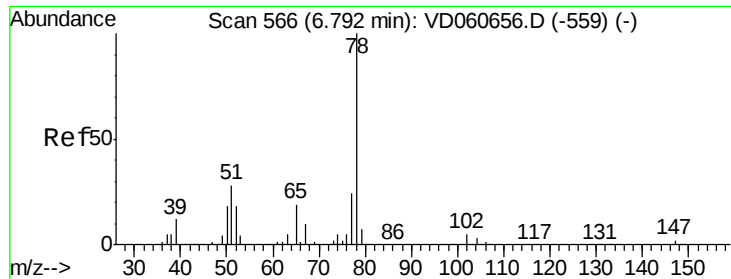
Tgt Ion: 42 Resp: 2114
Ion Ratio Lower Upper
42 100
72 9.0 28.0 42.0#
71 0.0 27.0 40.6#



#31
Cyclohexane
Concen: 1.126 ug/l
RT: 6.37 min Scan# 523
Delta R.T. 0.01 min
Lab File: VD060717.D
Acq: 26 Dec 2018 17:42

Tgt Ion: 56 Resp: 30694
Ion Ratio Lower Upper
56 100
69 198.0 23.6 35.4#
84 186.7 65.8 98.6#

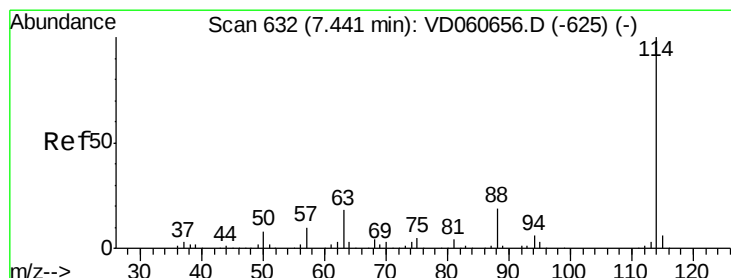
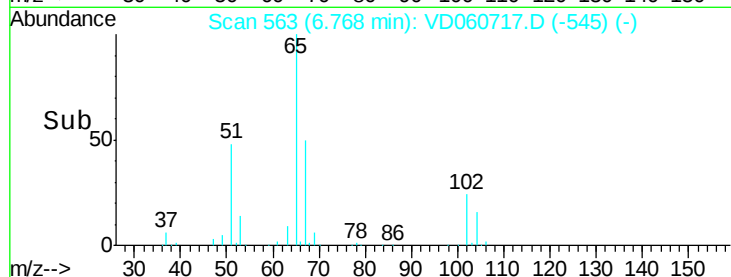
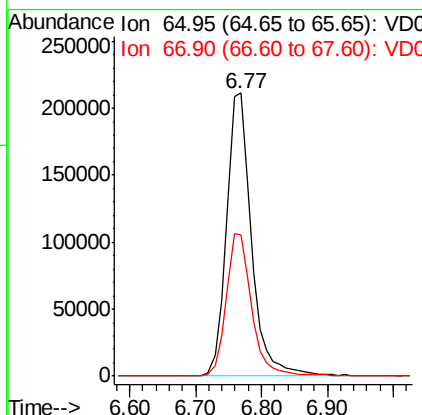
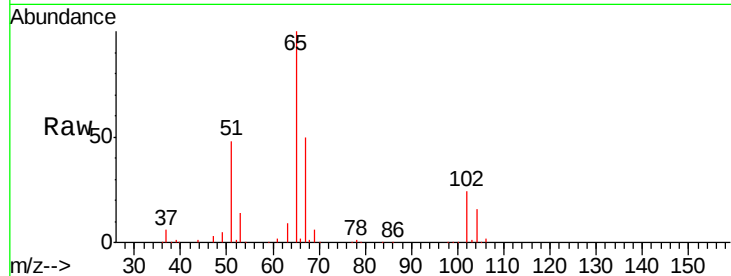




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.77 min Scan# 563
 Delta R.T. -0.02 min
 Lab File: VD060717.D
 Acq: 26 Dec 2018 17:42

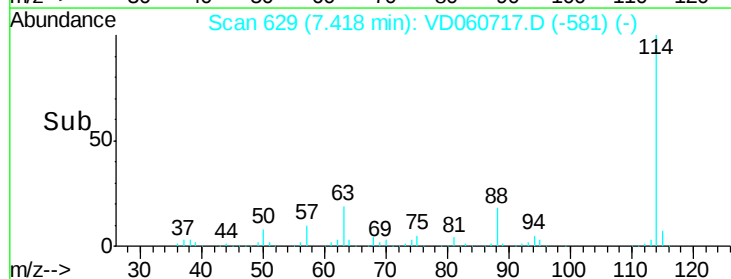
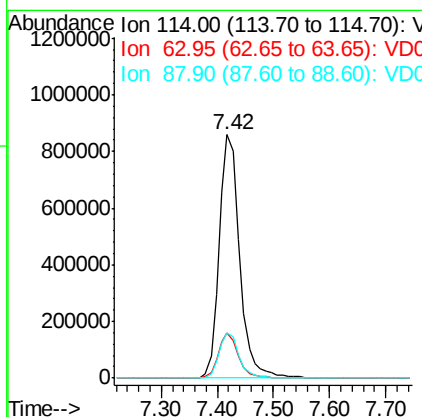
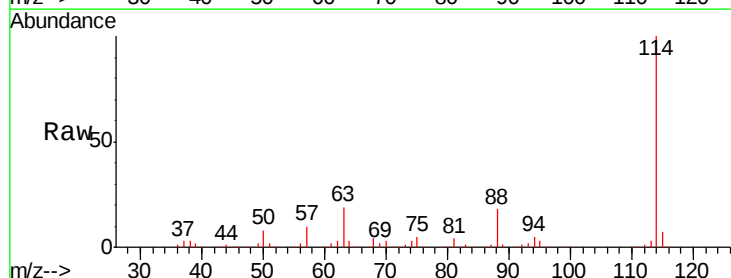
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-122618-B

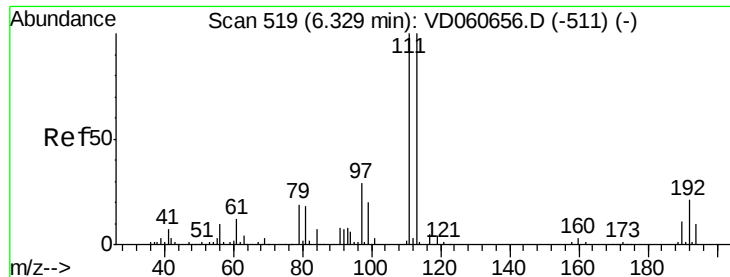
Tgt Ion: 65 Resp: 561805
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.42 min Scan# 629
 Delta R.T. -0.02 min
 Lab File: VD060717.D
 Acq: 26 Dec 2018 17:42

Tgt Ion: 114 Resp: 2188031
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 36.2
 88 18.4 0.0 37.0

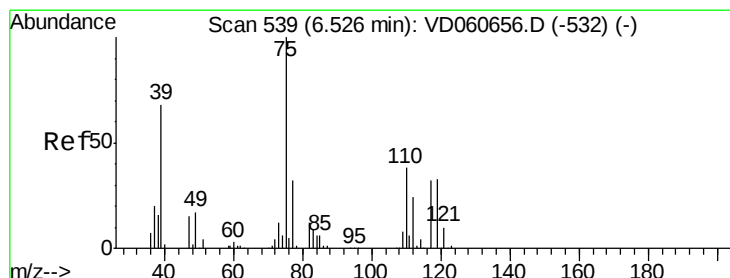
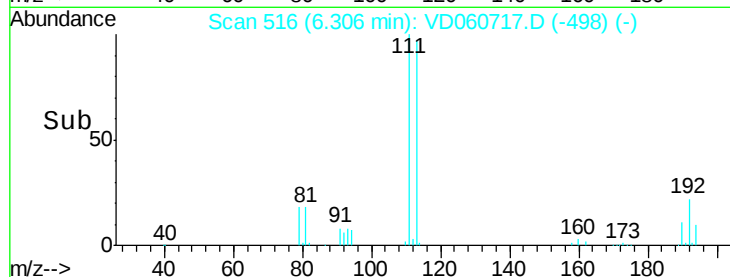
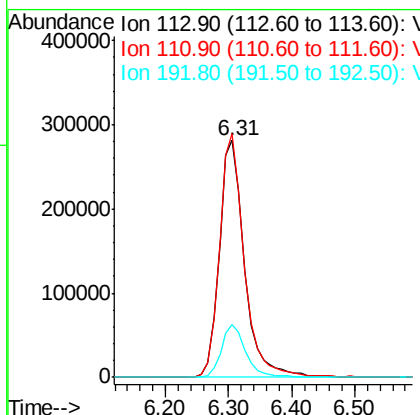
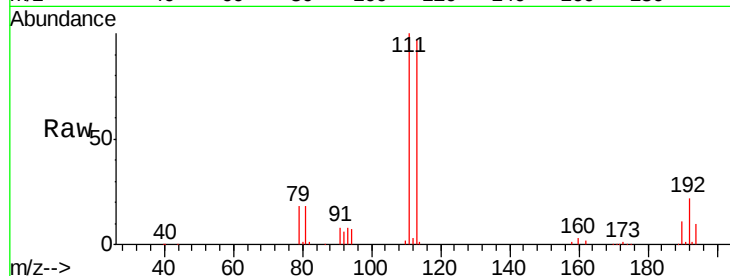




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 516
 Delta R.T. -0.02 min
 Lab File: VD060717.D
 Acq: 26 Dec 2018 17:42

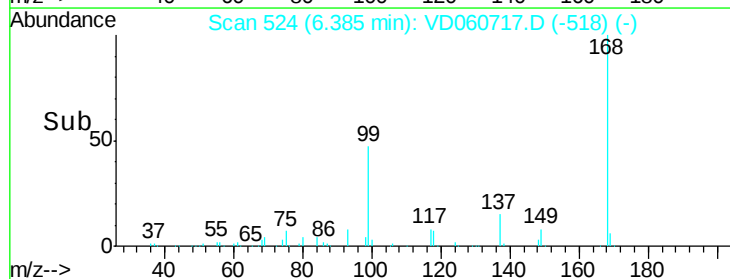
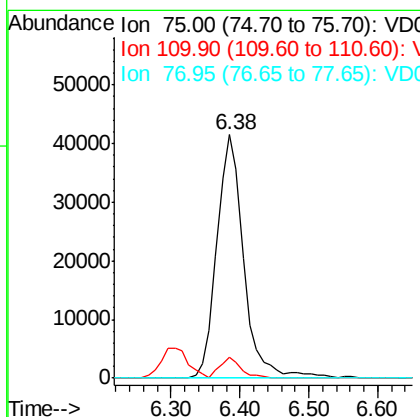
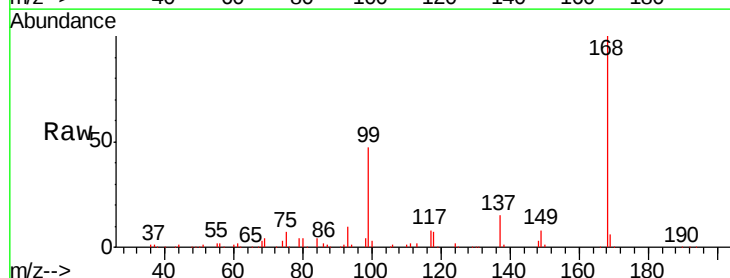
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-122618-B

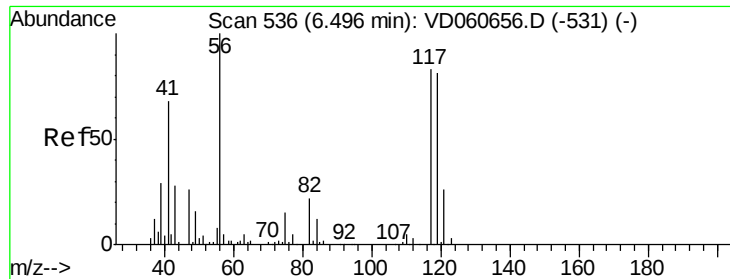
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	80.0	120.0
192	22.5	16.6	25.0



#36
 1,1-Dichloropropene
 Concen: 4.953 ug/l
 RT: 6.38 min Scan# 524
 Delta R.T. -0.14 min
 Lab File: VD060717.D
 Acq: 26 Dec 2018 17:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.9	56.7#
77	0.0	25.4	38.0#





#38

Carbon Tetrachloride

Concen: 6.131 ug/l

RT: 6.38 min Scan# 524

Delta R.T. -0.11 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

Instrument :

MSVOA_D

ClientSampleId :

OR-01-122618-B

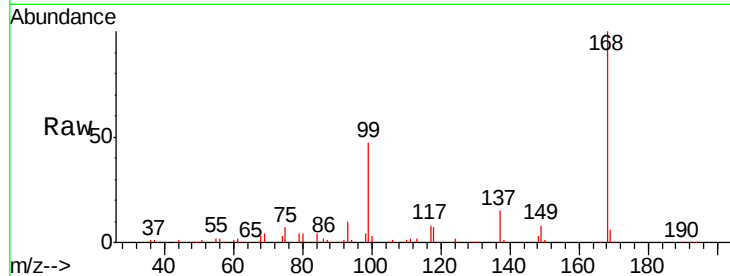
Tgt Ion:117 Resp: 121876

Ion Ratio Lower Upper

117 100

119 4.3 77.0 115.4#

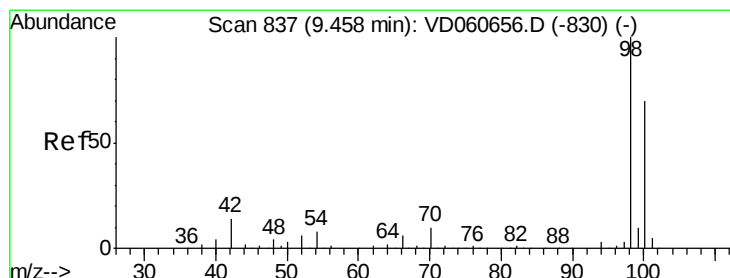
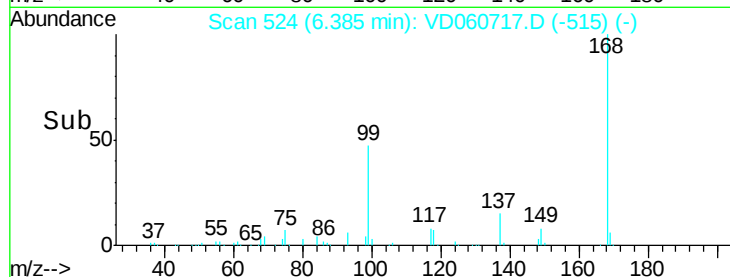
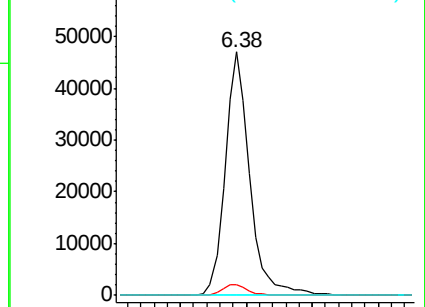
121 0.0 24.7 37.1#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.44 min Scan# 834

Delta R.T. -0.02 min

Lab File: VD060717.D

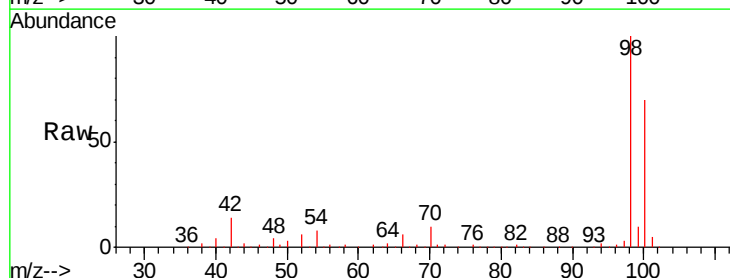
Acq: 26 Dec 2018 17:42

Tgt Ion: 98 Resp: 1964014

Ion Ratio Lower Upper

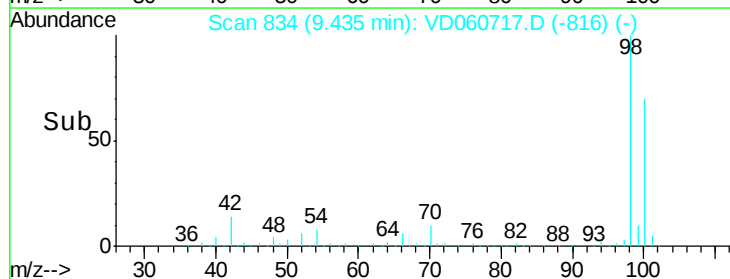
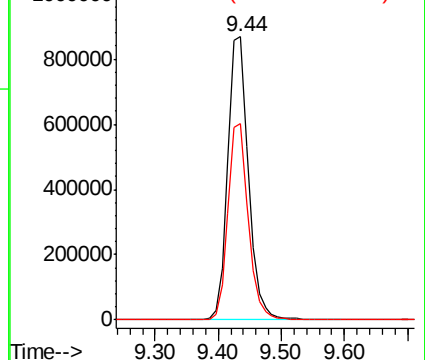
98 100

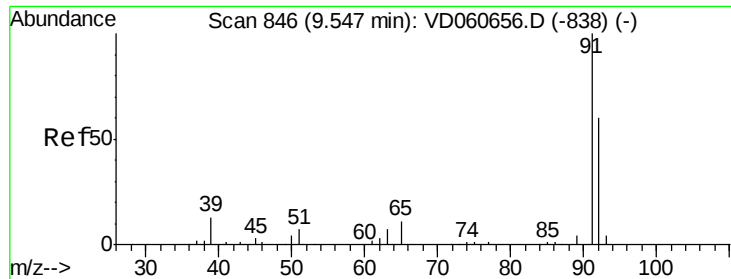
100 69.5 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 1.176 ug/l

RT: 9.52 min Scan# 843

Delta R.T. -0.02 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

Instrument :

MSVOA_D

ClientSampleId :

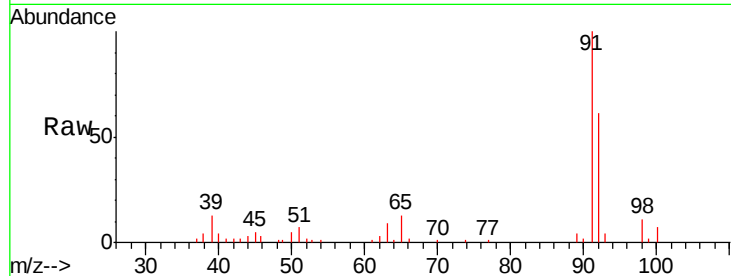
OR-01-122618-B

Tgt Ion: 92 Resp: 42905

Ion Ratio Lower Upper

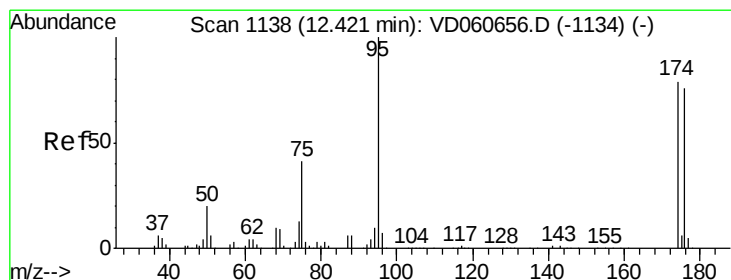
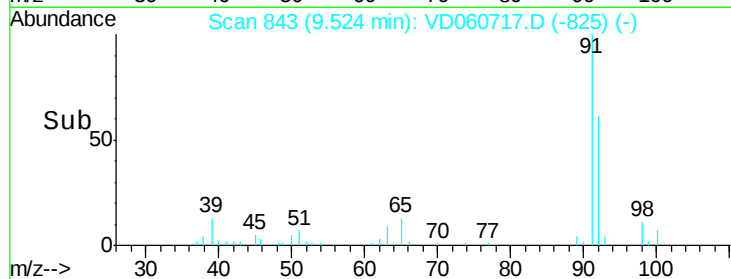
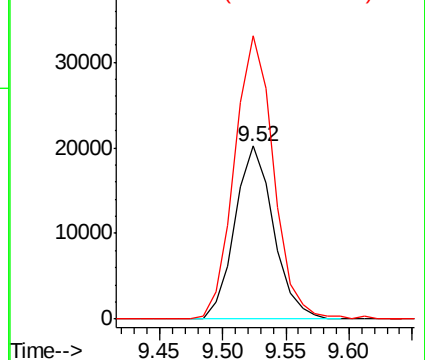
92 100

91 163.6 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.41 min Scan# 1136

Delta R.T. -0.01 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

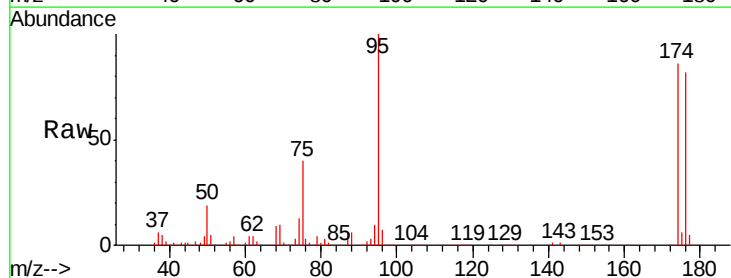
Tgt Ion: 95 Resp: 606138

Ion Ratio Lower Upper

95 100

174 86.2 0.0 158.2

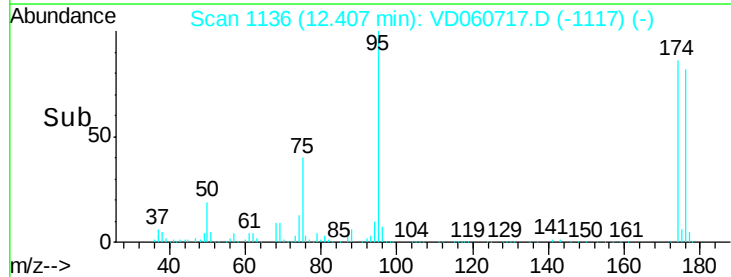
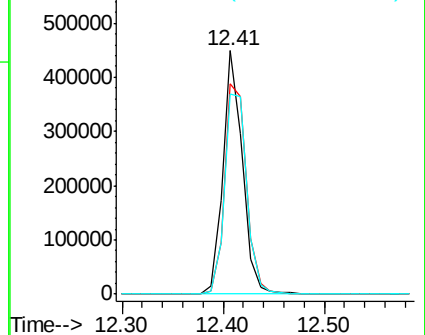
176 82.0 0.0 152.4

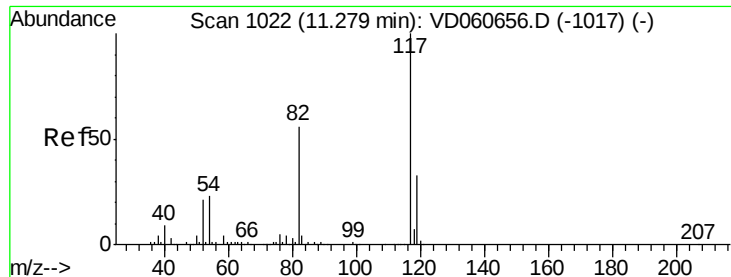


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

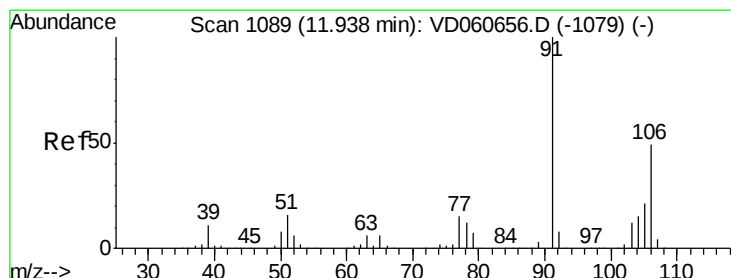
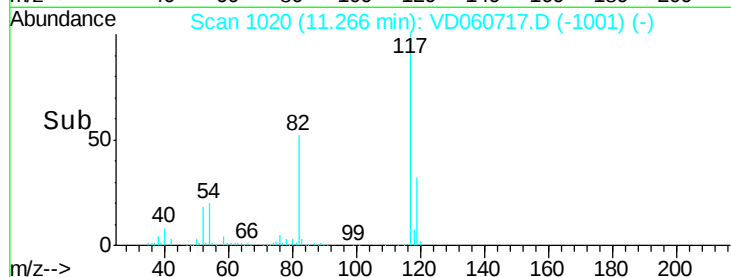
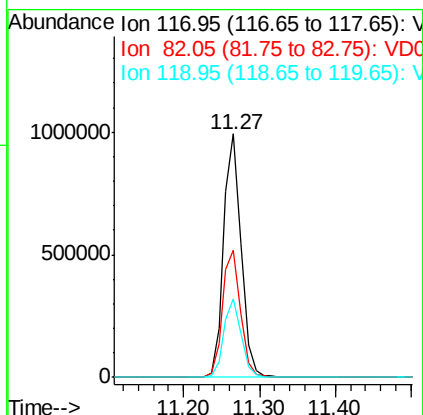
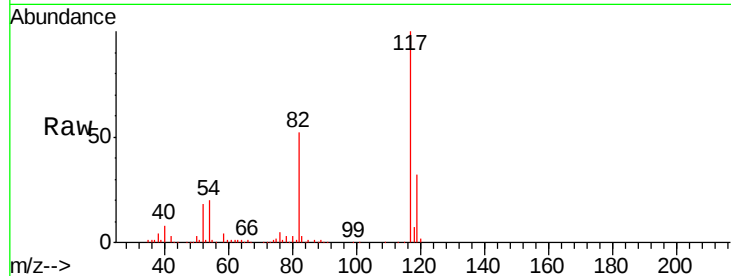




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 1020
Delta R.T. -0.01 min
Lab File: VD060717.D
Acq: 26 Dec 2018 17:42

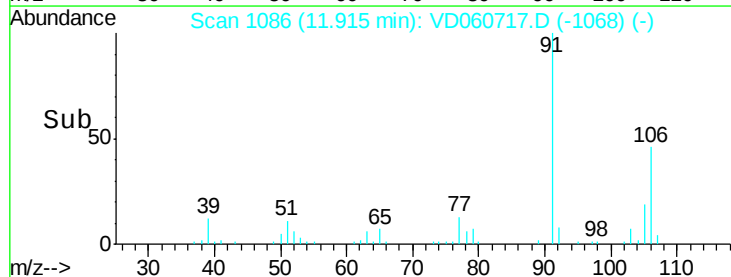
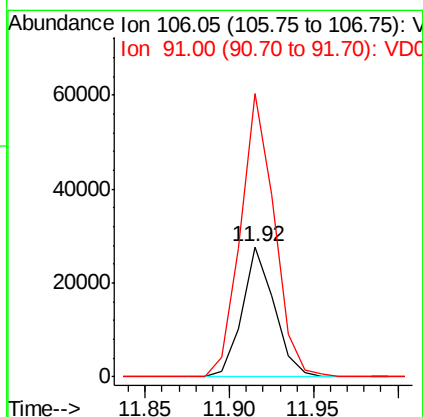
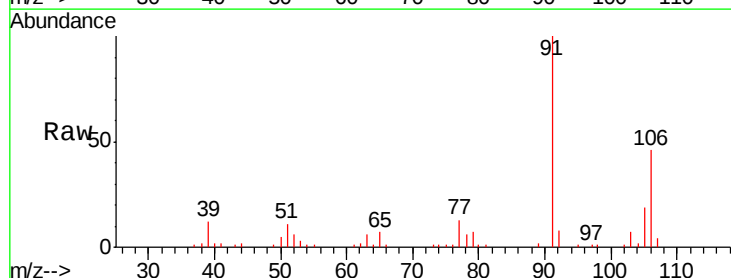
Instrument :
MSVOA_D
ClientSampleId :
OR-01-122618-B

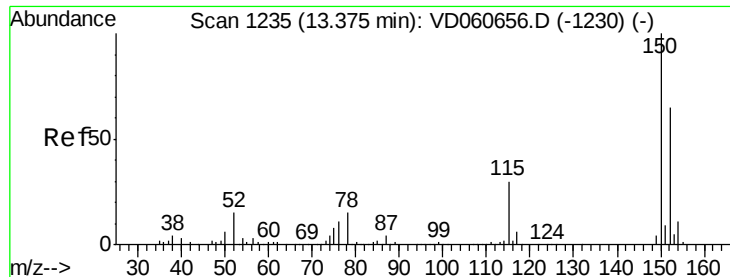
Tgt Ion:117 Resp: 1599909
Ion Ratio Lower Upper
117 100
82 52.3 44.5 66.7
119 32.3 26.3 39.5



#69
o-Xylene
Concen: 1.733 ug/l
RT: 11.92 min Scan# 1086
Delta R.T. -0.02 min
Lab File: VD060717.D
Acq: 26 Dec 2018 17:42

Tgt Ion:106 Resp: 36381
Ion Ratio Lower Upper
106 100
91 217.8 101.5 304.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.36 min Scan# 1233

Delta R.T. -0.01 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

Instrument :

MSVOA_D

ClientSampleId :

OR-01-122618-B

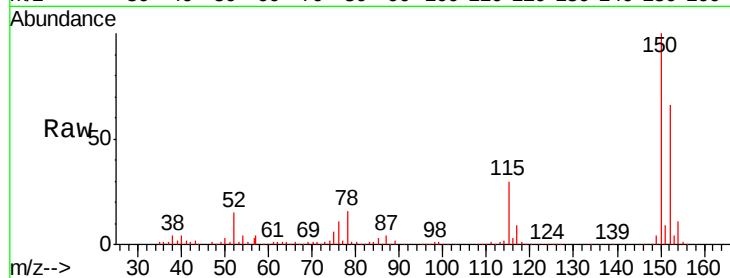
Tgt Ion:152 Resp: 605078

Ion Ratio Lower Upper

152 100

115 45.0 24.1 72.3

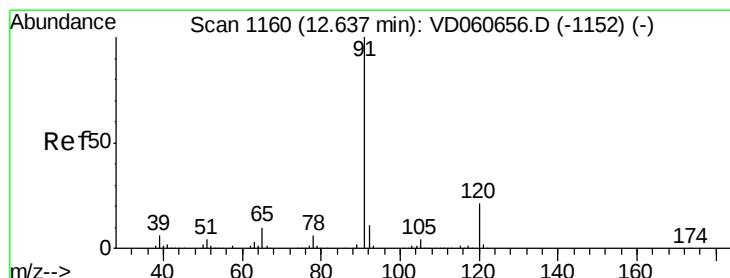
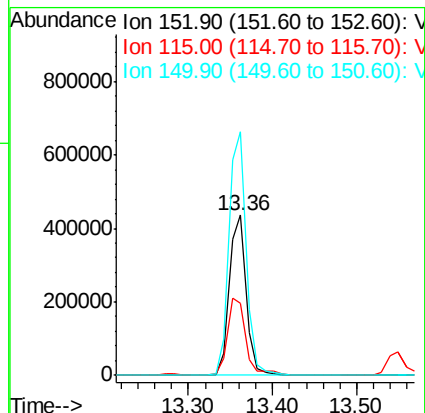
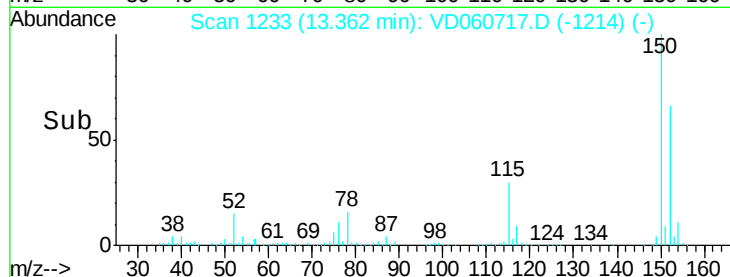
150 152.3 0.0 315.0



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



#78

n-propylbenzene

Concen: 1.296 ug/l

RT: 12.62 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VD060717.D

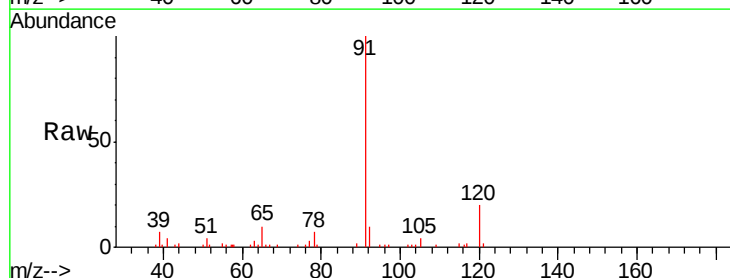
Acq: 26 Dec 2018 17:42

Tgt Ion: 91 Resp: 71406

Ion Ratio Lower Upper

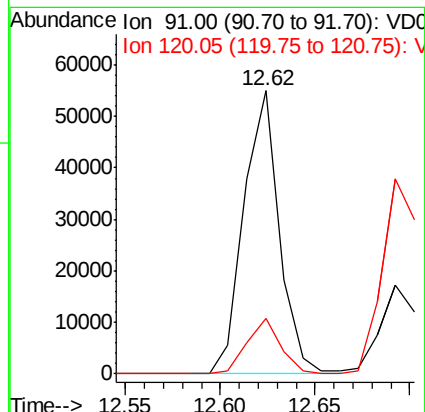
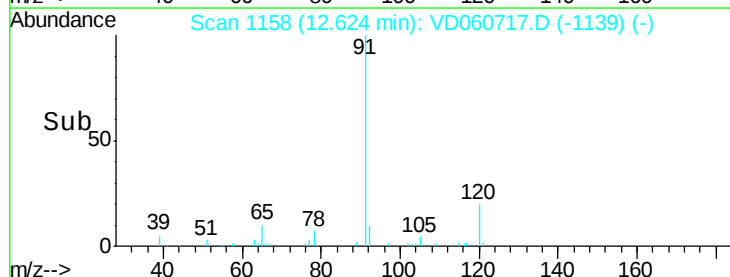
91 100

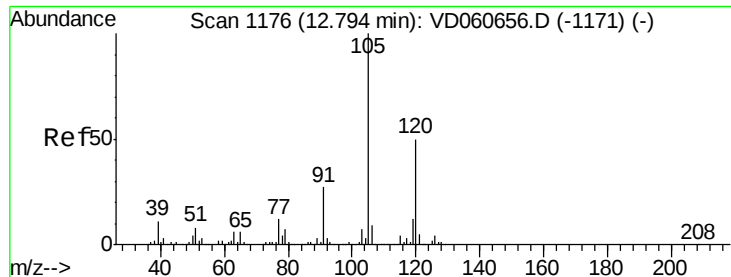
120 19.5 10.4 31.2



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: 5.128 ug/l

RT: 12.78 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

Instrument :

MSVOA_D

ClientSampleId :

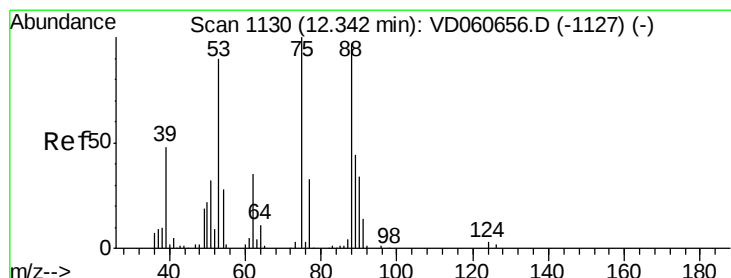
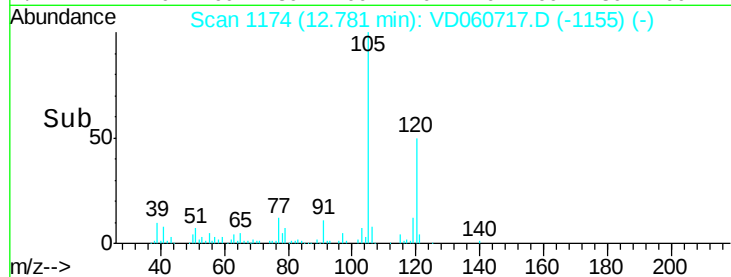
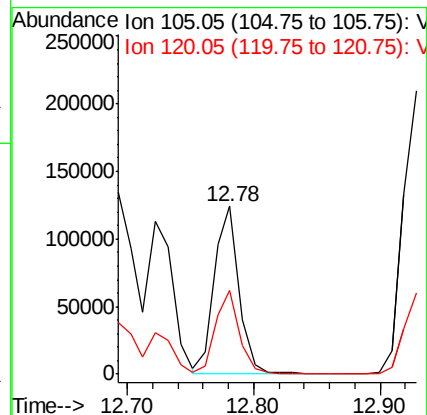
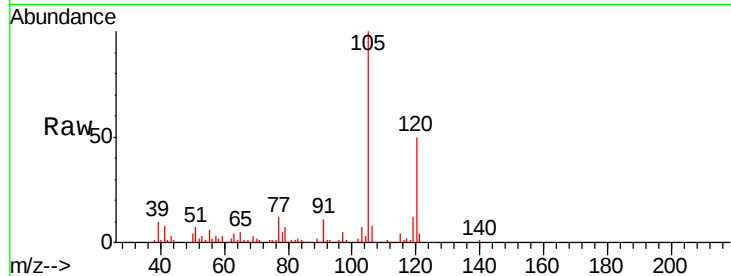
OR-01-122618-B

Tgt Ion:105 Resp: 170603

Ion Ratio Lower Upper

105 100

120 50.1 24.8 74.4



#81

trans-1,4-Dichloro-2-butene

Concen: 127.752 ug/l

RT: 12.41 min Scan# 1136

Delta R.T. 0.07 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

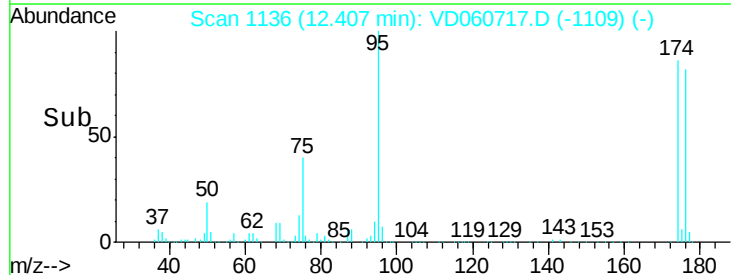
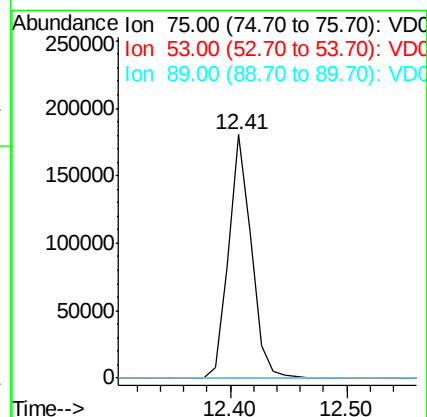
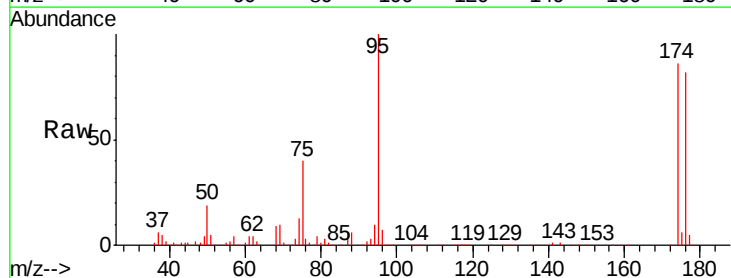
Tgt Ion: 75 Resp: 243179

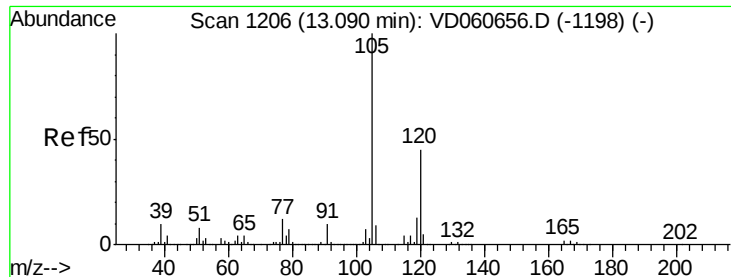
Ion Ratio Lower Upper

75 100

53 0.2 72.1 108.1#

89 0.0 35.1 52.7#

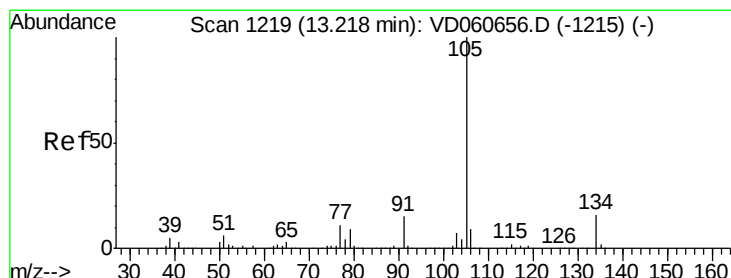
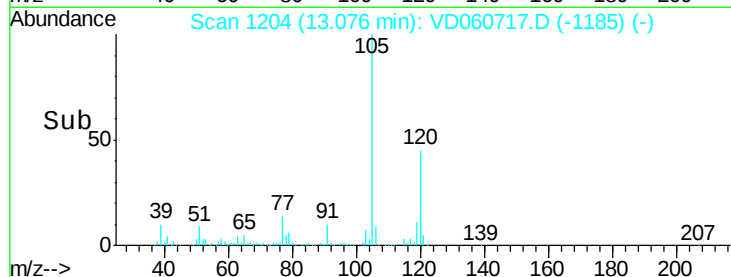
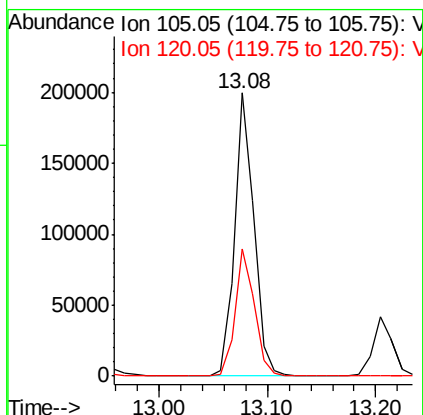
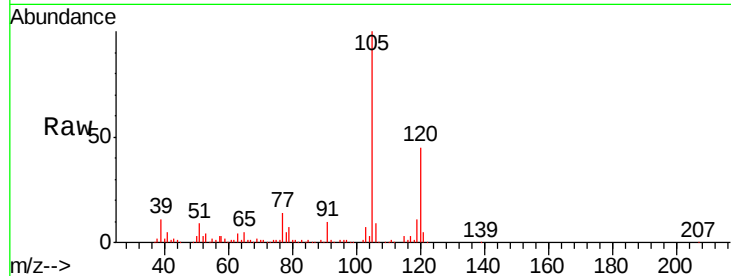




#84
 1,2,4-Trimethylbenzene
 Concen: 7.279 ug/l
 RT: 13.08 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: VD060717.D
 Acq: 26 Dec 2018 17:42

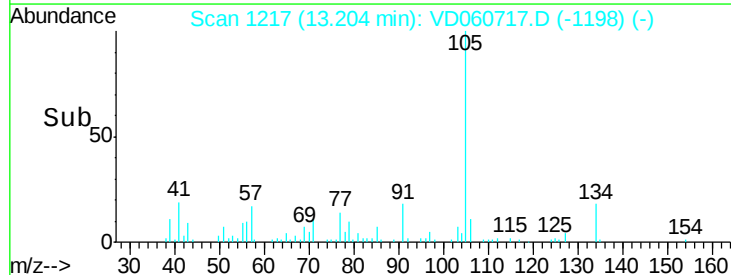
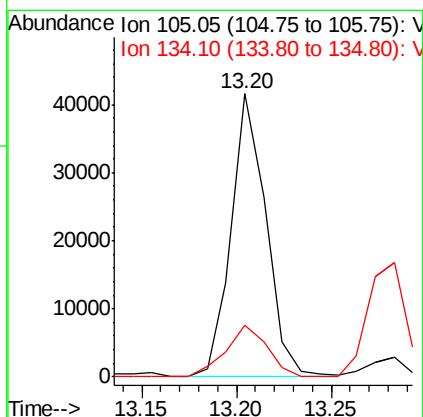
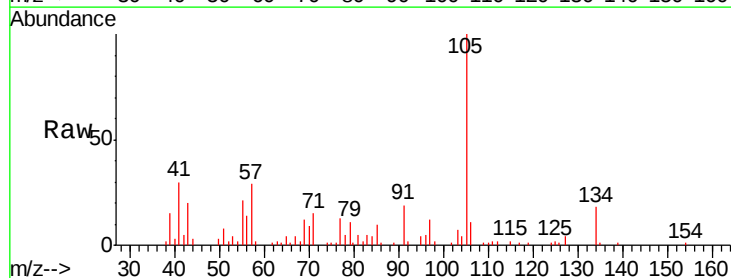
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-122618-B

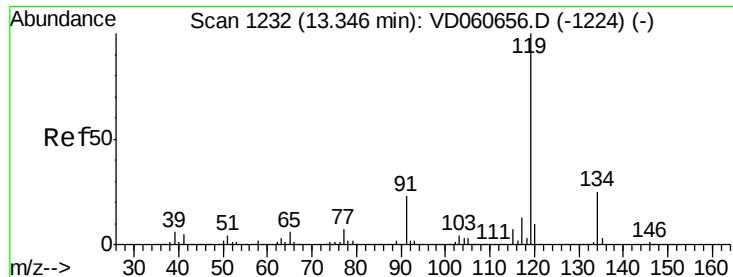
Tgt Ion:105 Resp: 249411
 Ion Ratio Lower Upper
 105 100
 120 45.0 22.4 67.0



#85
 sec-Butylbenzene
 Concen: 1.147 ug/l
 RT: 13.20 min Scan# 1217
 Delta R.T. -0.01 min
 Lab File: VD060717.D
 Acq: 26 Dec 2018 17:42

Tgt Ion:105 Resp: 52961
 Ion Ratio Lower Upper
 105 100
 134 18.3 8.2 24.4

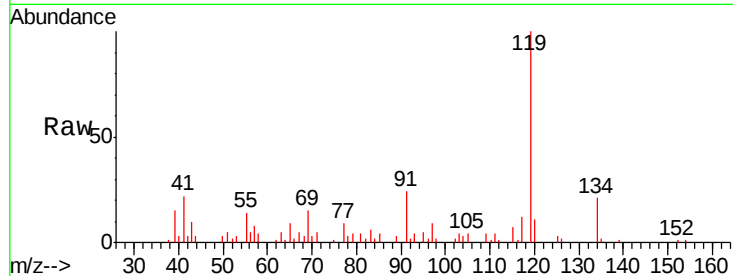




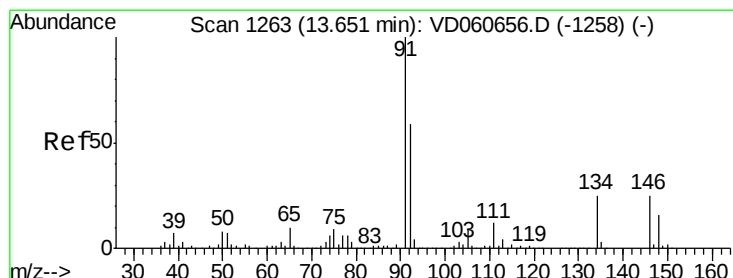
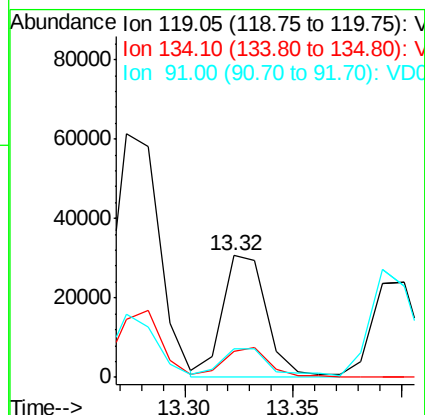
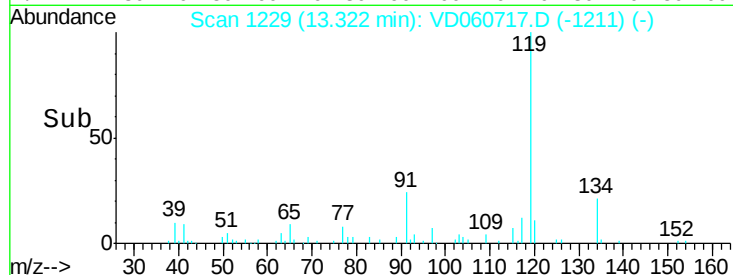
#86
p-Isopropyltoluene
Concen: 1.182 ug/l
RT: 13.32 min Scan# 1229
Delta R.T. -0.02 min
Lab File: VD060717.D
Acq: 26 Dec 2018 17:42

Instrument :
MSVOA_D
ClientSampleId :
OR-01-122618-B

Tgt Ion: 119 Resp: 44055
Ion Ratio Lower Upper
119 100
134 21.1 12.5 37.5
91 23.6 11.4 34.2

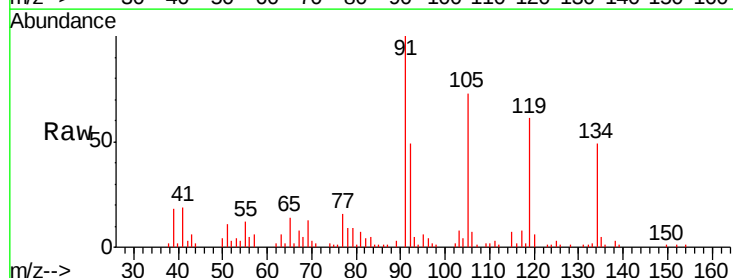


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 134.10 (133.80 to 134.80): V
Ion 91.00 (90.70 to 91.70): V

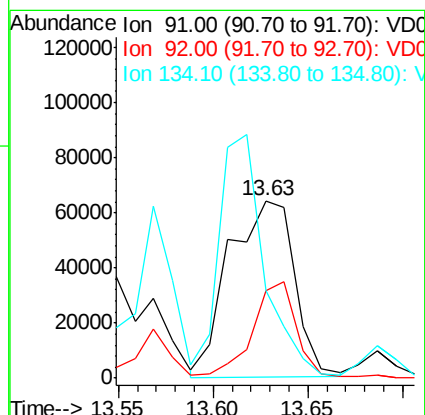
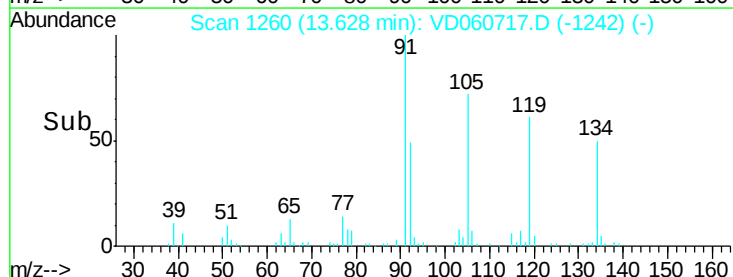


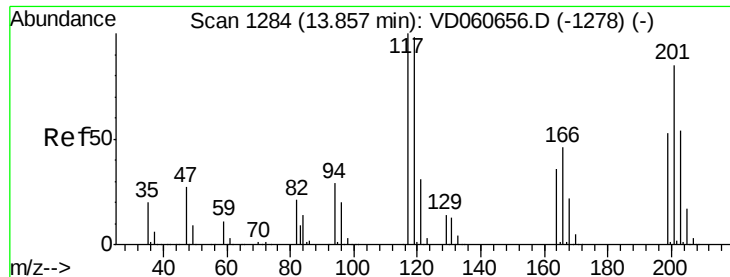
#89
n-Butylbenzene
Concen: 4.031 ug/l
RT: 13.63 min Scan# 1260
Delta R.T. -0.02 min
Lab File: VD060717.D
Acq: 26 Dec 2018 17:42

Tgt Ion: 91 Resp: 153535
Ion Ratio Lower Upper
91 100
92 49.0 29.7 89.1
134 49.4 12.7 38.1#



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





#90

Hexachloroethane

Concen: 1.996 ug/l

RT: 13.81 min Scan# 1279

Delta R.T. -0.04 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

Instrument :

MSVOA_D

ClientSampleId :

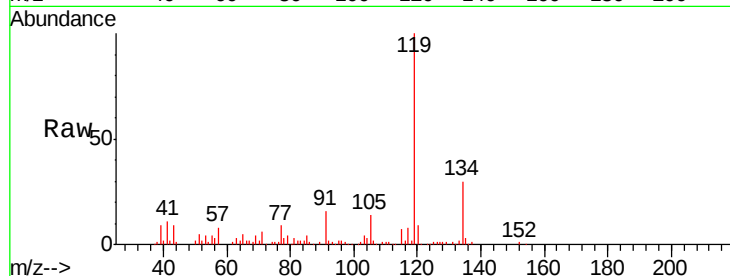
OR-01-122618-B

Tgt Ion:117 Resp: 18272

Ion Ratio Lower Upper

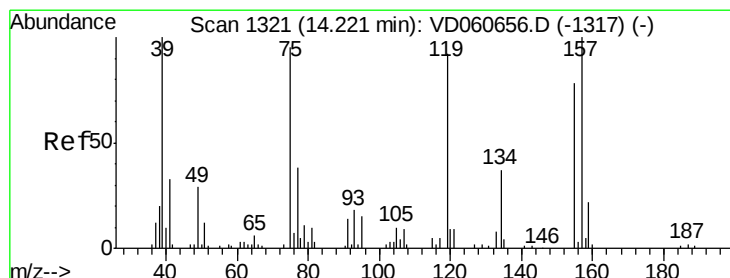
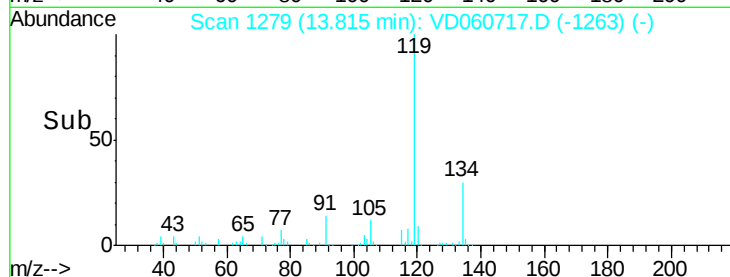
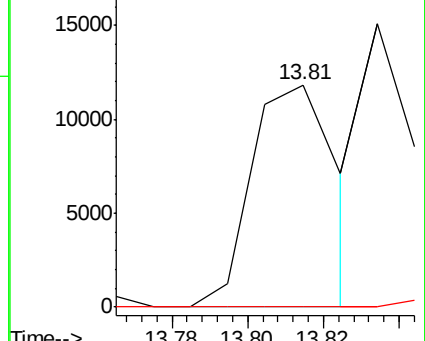
117 100

201 0.0 42.6 127.8#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.611 ug/l

RT: 14.21 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VD060717.D

Acq: 26 Dec 2018 17:42

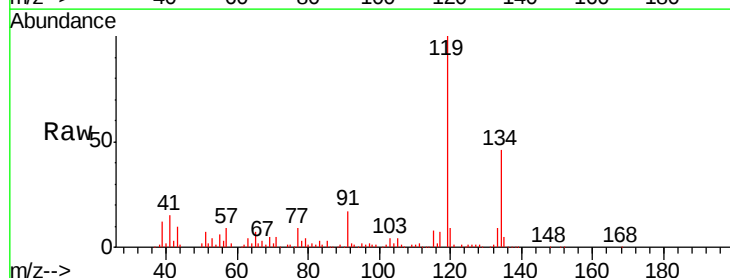
Tgt Ion: 75 Resp: 2142

Ion Ratio Lower Upper

75 100

155 0.0 41.1 123.4#

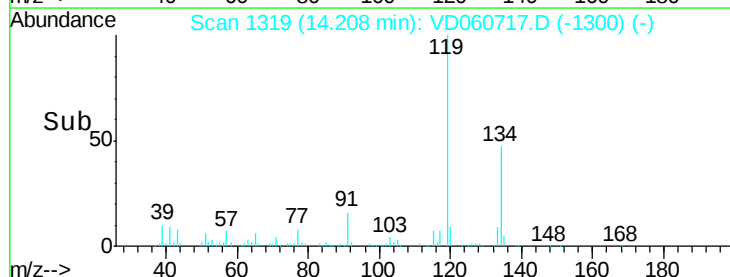
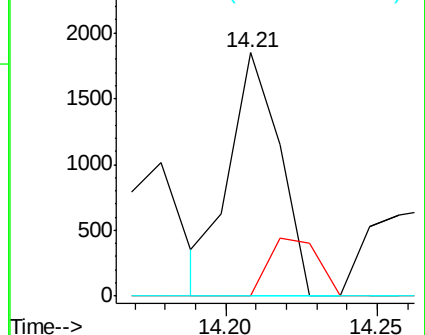
157 0.0 52.5 157.6#

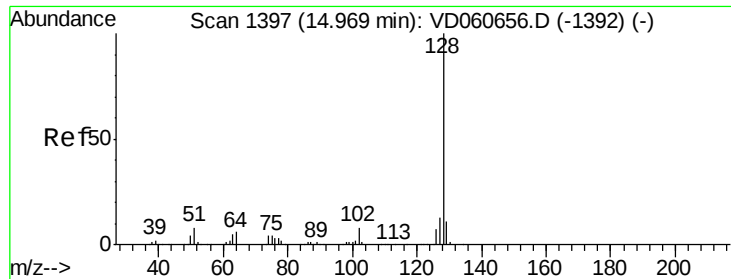


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V





#95
Naphthalene
Concen: 3.264 ug/l
RT: 14.96 min Scan# 1395
Delta R.T. -0.01 min
Lab File: VD060717.D
Acq: 26 Dec 2018 17:42

Instrument :
MSVOA_D
ClientSampleId :
OR-01-122618-B

Tgt Ion:128 Resp: 51699
Ion Ratio Lower Upper
128 100
127 13.4 10.1 15.1
129 14.5 8.6 13.0#

