

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122618\
 Data File : VD060716.D
 Acq On : 26 Dec 2018 17:15
 Operator : VA/AP
 Sample : J6195-11
 Misc : 6.61g/5ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Dec 27 01:50:28 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	6.39	168	1488790	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	2018584	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	1546021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	645446	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.77	65	454716	44.20	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	88.40%	
35) Dibromofluoromethane	6.31	113	615746	41.68	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	83.36%	
50) Toluene-d8	9.43	98	1678592	38.08	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	76.16%	
62) 4-Bromofluorobenzene	12.41	95	533370	34.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.10%	

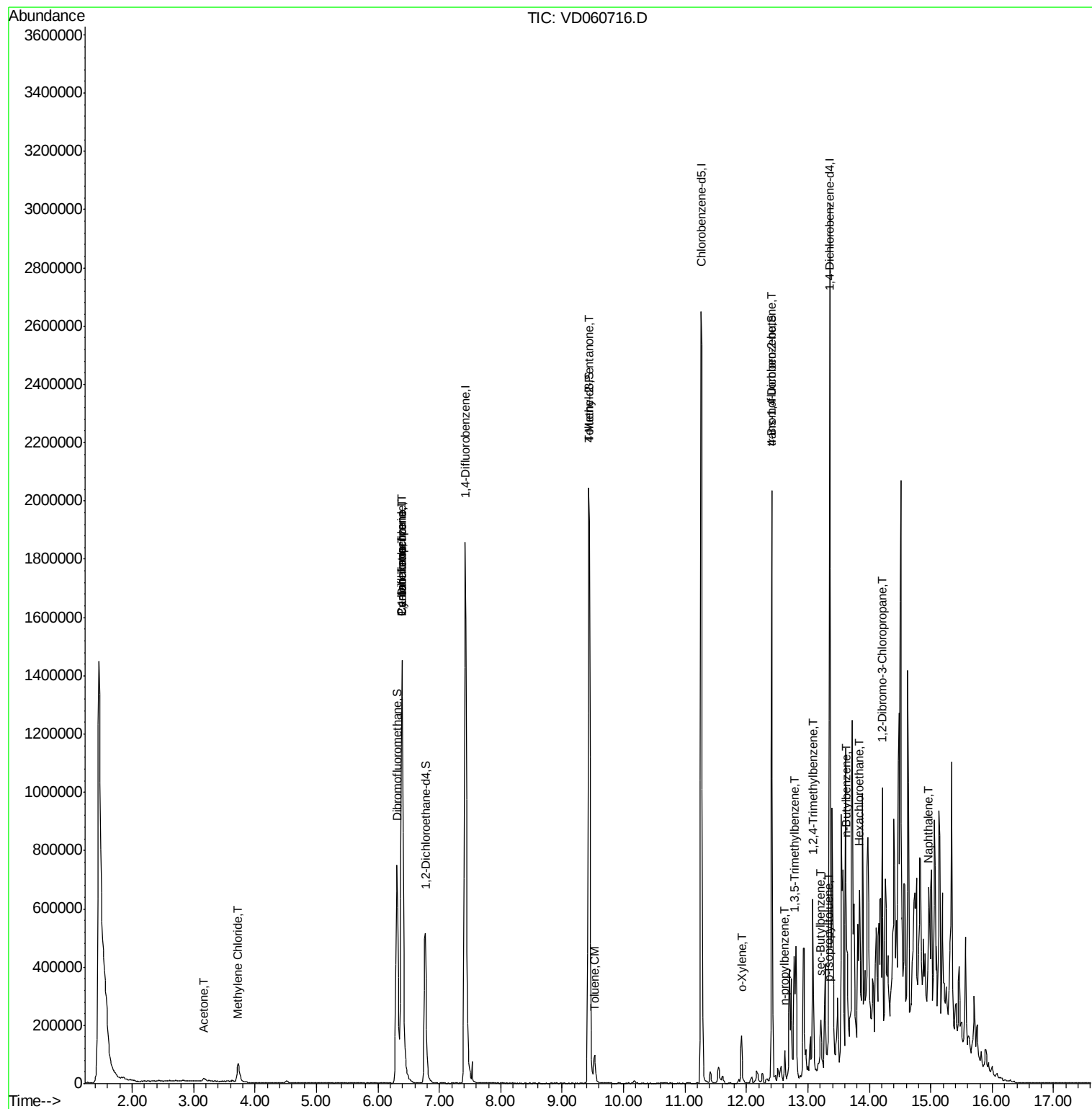
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.16	43	25581	14.237	ug/l	97
20) Methylene Chloride	3.72	84	44446	2.382	ug/l	98
31) Cyclohexane	6.40	56	29249	1.126	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	106781	5.137	ug/l #	46
38) Carbon Tetrachloride	6.39	117	113060	6.165	ug/l #	16
51) 4-Methyl-2-Pentanone	9.43	43	9379	1.372	ug/l #	1
52) Toluene	9.53	92	48126	1.430	ug/l	96
69) o-Xylene	11.92	106	37909	1.869	ug/l	94
78) n-propylbenzene	12.62	91	76454	1.301	ug/l	91
80) 1,3,5-Trimethylbenzene	12.78	105	170202	4.796	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.41	75	215875	106.315	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.08	105	252537	6.910	ug/l	100
85) sec-Butylbenzene	13.21	105	57260	1.163	ug/l	93
86) p-Isopropyltoluene	13.33	119	44381	1.116	ug/l	94
89) n-Butylbenzene	13.63	91	170540	4.198	ug/l	93
90) Hexachloroethane	13.84	117	32658	3.344	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.21	75	1795	2.051	ug/l #	2
95) Naphthalene	14.95	128	68722	4.067	ug/l #	93

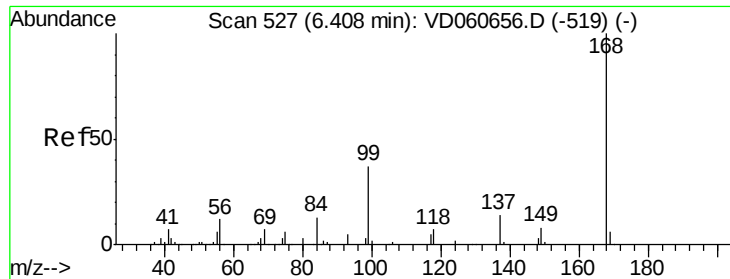
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 21 17:37:47 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 525

Delta R.T. -0.02 min

Lab File: VD060716.D

Acq: 26 Dec 2018 17:15

Instrument :

MSVOA_D

ClientSampleId :

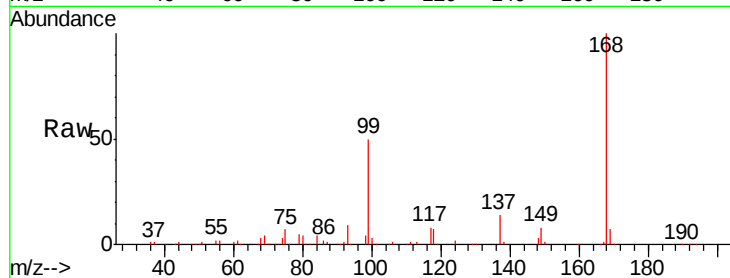
OR-01-122618-A

Tgt Ion:168 Resp: 1488790

Ion Ratio Lower Upper

168 100

99 49.8 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

500000

400000

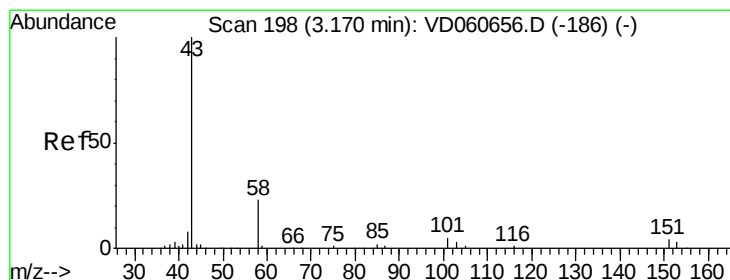
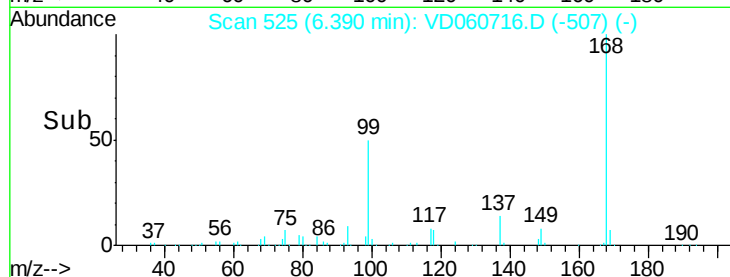
300000

200000

100000

0

Time--> 6.20 6.30 6.40 6.50 6.60



#16

Acetone

Concen: 14.237 ug/l

RT: 3.16 min Scan# 197

Delta R.T. -0.01 min

Lab File: VD060716.D

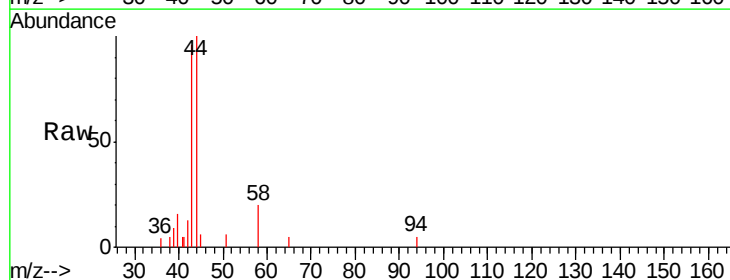
Acq: 26 Dec 2018 17:15

Tgt Ion: 43 Resp: 25581

Ion Ratio Lower Upper

43 100

58 21.3 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.16

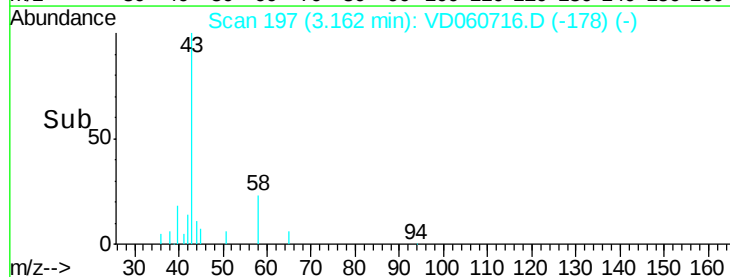
6000

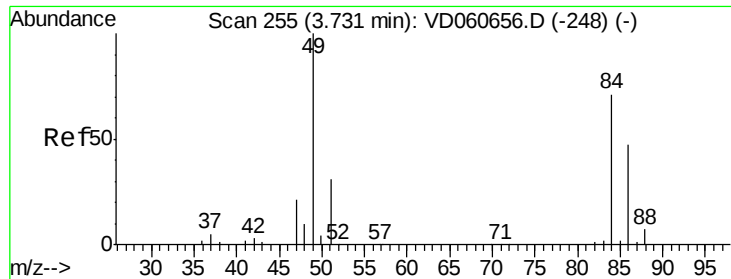
4000

2000

0

Time--> 3.00 3.10 3.20 3.30

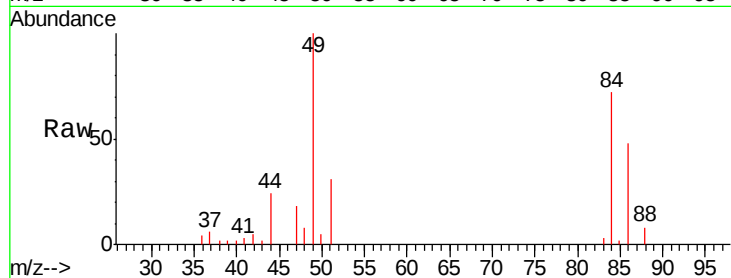




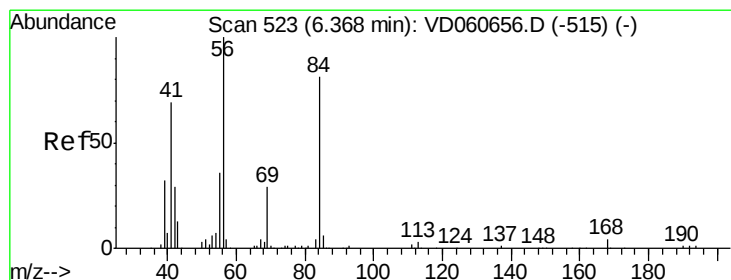
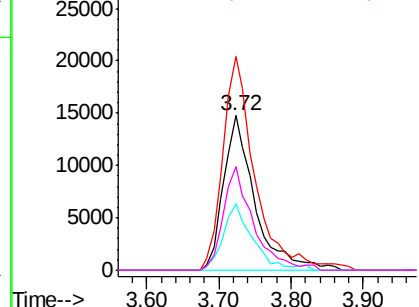
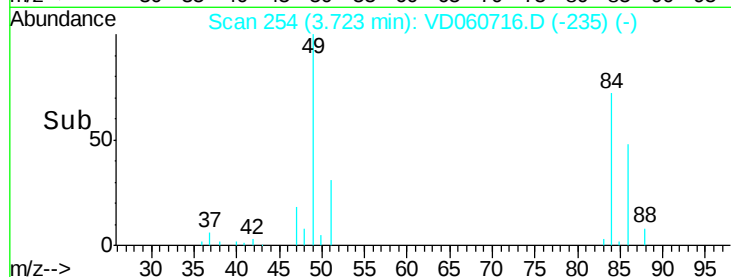
#20
Methylene Chloride
Concen: 2.382 ug/l
RT: 3.72 min Scan# 254
Delta R.T. -0.01 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

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

Tgt Ion: 84 Resp: 44446
Ion Ratio Lower Upper
84 100
49 138.3 113.6 170.4
51 42.7 34.7 52.1
86 66.8 52.8 79.2

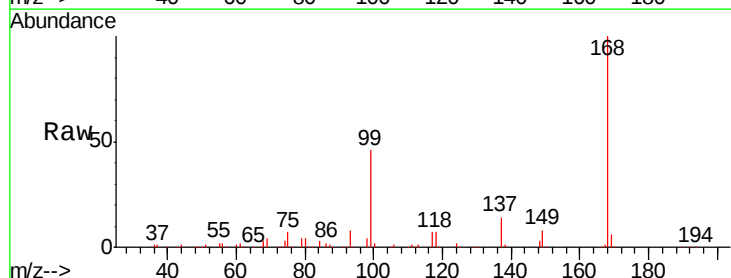


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

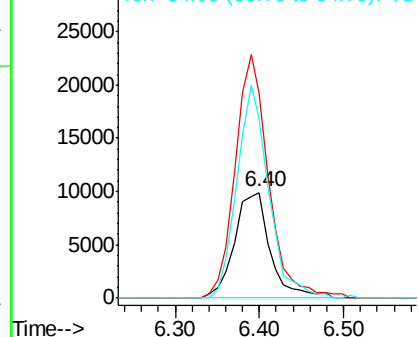
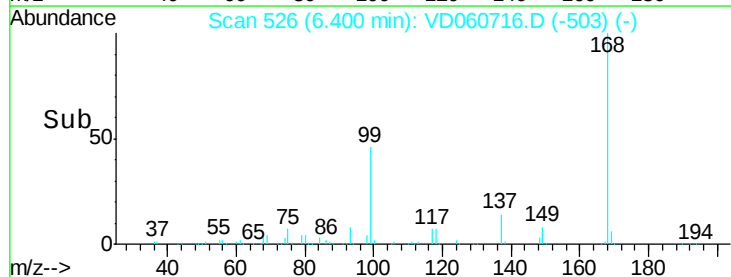


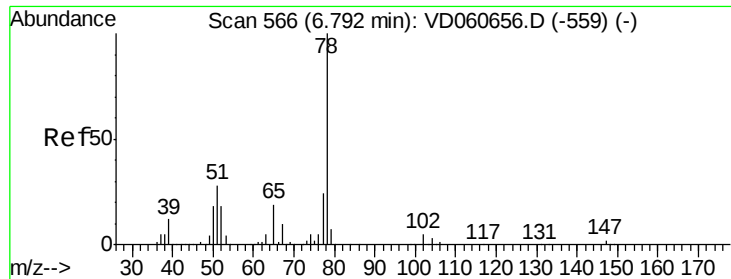
#31
Cyclohexane
Concen: 1.126 ug/l
RT: 6.40 min Scan# 526
Delta R.T. 0.03 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

Tgt Ion: 56 Resp: 29249
Ion Ratio Lower Upper
56 100
69 194.9 23.6 35.4#
84 170.4 65.8 98.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.77 min Scan# 564

Delta R.T. -0.02 min

Lab File: VD060716.D

Acq: 26 Dec 2018 17:15

Instrument :

MSVOA_D

ClientSampleId :

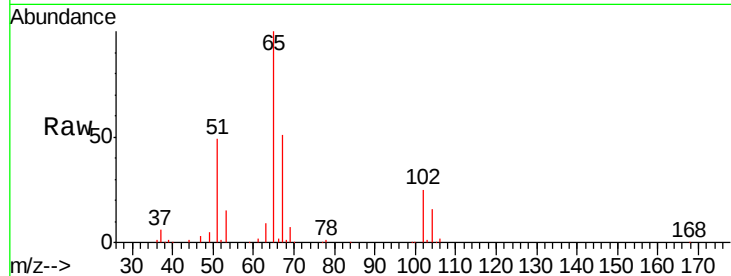
OR-01-122618-A

Tgt Ion: 65 Resp: 454716

Ion Ratio Lower Upper

65 100

67 50.7 0.0 105.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.77

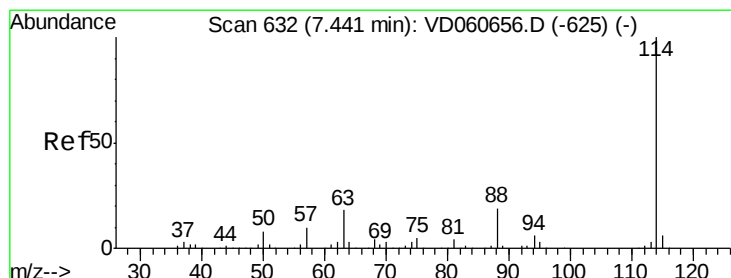
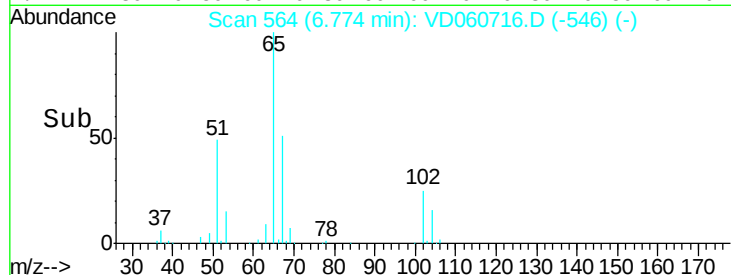
150000

100000

50000

0

Time--> 6.60 6.70 6.80 6.90



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.42 min Scan# 630

Delta R.T. -0.02 min

Lab File: VD060716.D

Acq: 26 Dec 2018 17:15

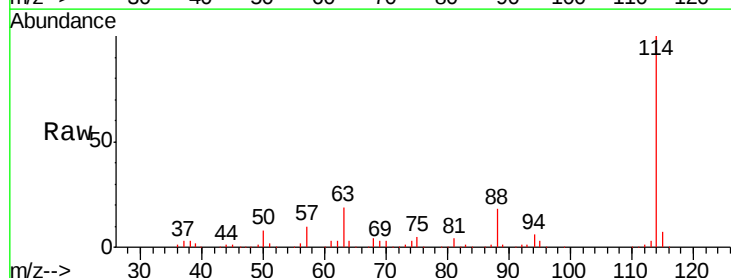
Tgt Ion: 114 Resp: 2018584

Ion Ratio Lower Upper

114 100

63 18.8 0.0 36.2

88 18.4 0.0 37.0



Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

7.42

1000000

800000

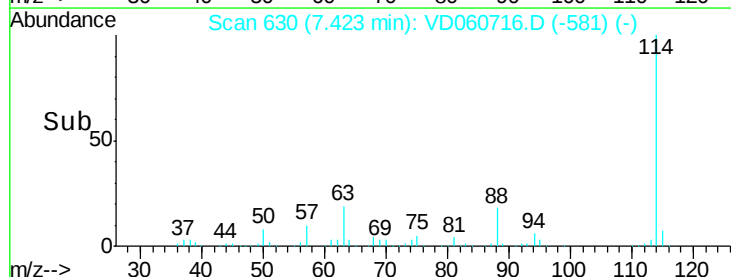
600000

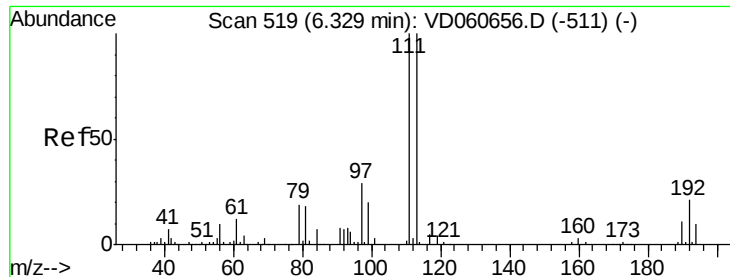
400000

200000

0

Time--> 7.30 7.40 7.50 7.60





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.31 min Scan# 517

Delta R.T. -0.02 min

Lab File: VD060716.D

Acq: 26 Dec 2018 17:15

Instrument :

MSVOA_D

ClientSampleId :

OR-01-122618-A

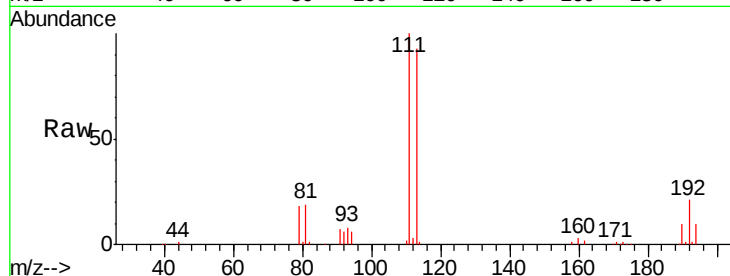
Tgt Ion:113 Resp: 615746

Ion Ratio Lower Upper

113 100

111 107.8 80.0 120.0

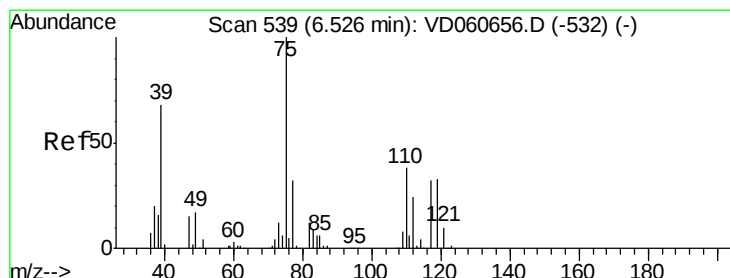
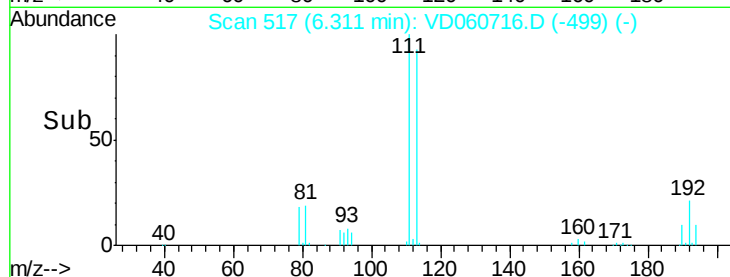
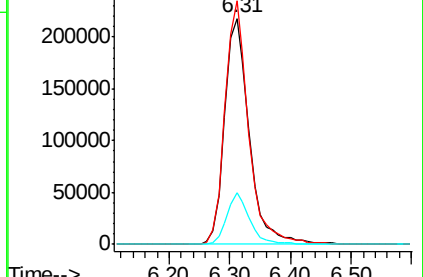
192 22.6 16.6 25.0



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



#36

1,1-Dichloropropene

Concen: 5.137 ug/l

RT: 6.39 min Scan# 525

Delta R.T. -0.14 min

Lab File: VD060716.D

Acq: 26 Dec 2018 17:15

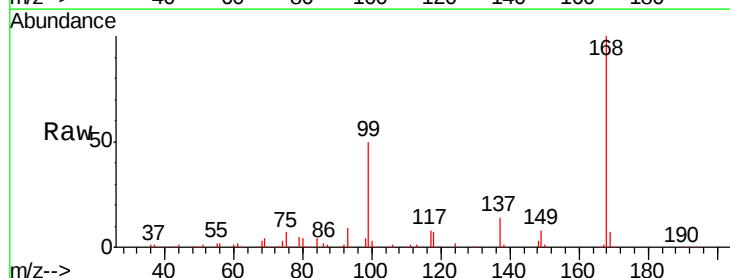
Tgt Ion: 75 Resp: 106781

Ion Ratio Lower Upper

75 100

110 6.5 18.9 56.7#

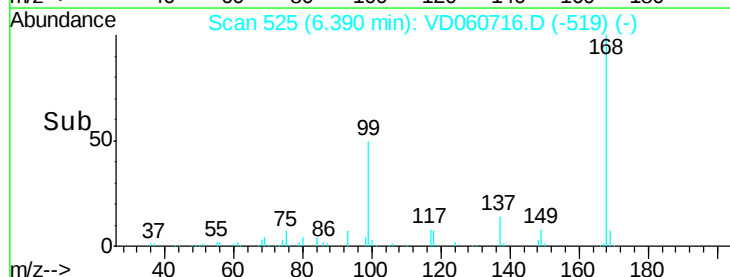
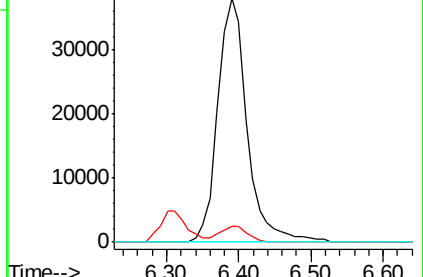
77 0.0 25.4 38.0#

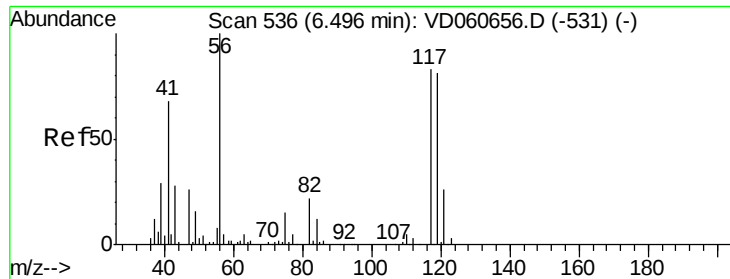


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

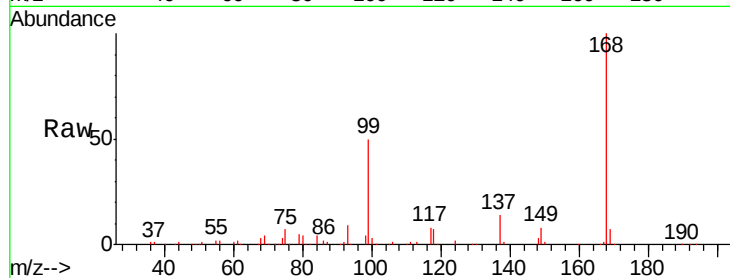




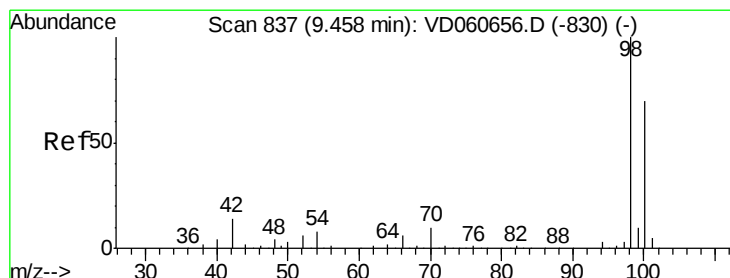
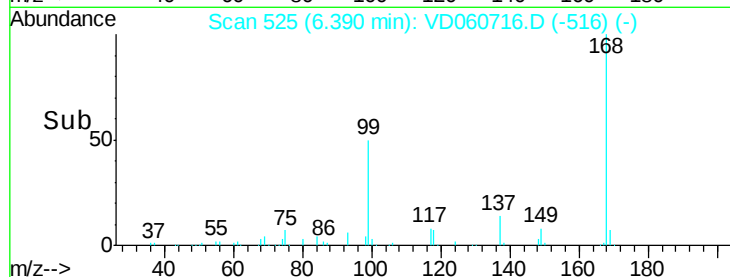
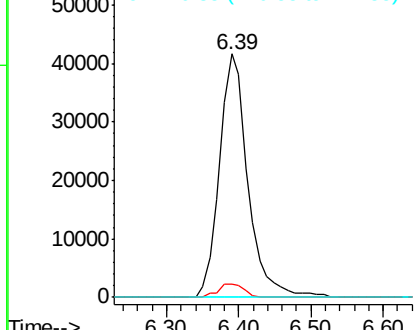
#38
Carbon Tetrachloride
Concen: 6.165 ug/l
RT: 6.39 min Scan# 525
Delta R.T. -0.11 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

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

Tgt Ion:117 Resp: 113060
Ion Ratio Lower Upper
117 100
119 5.3 77.0 115.4#
121 0.0 24.7 37.1#

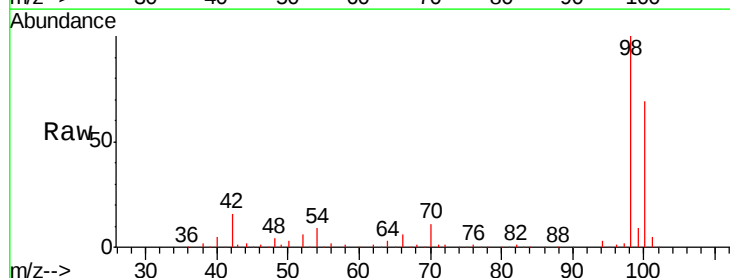


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

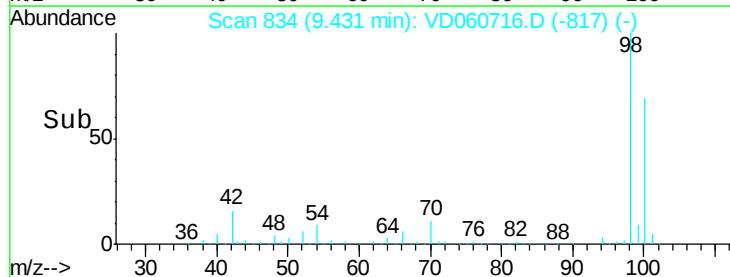
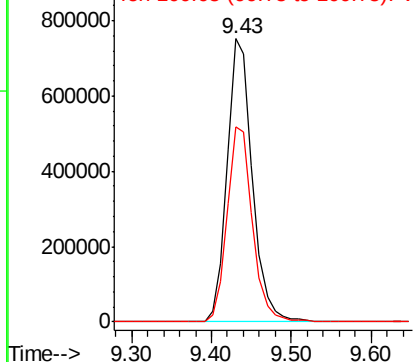


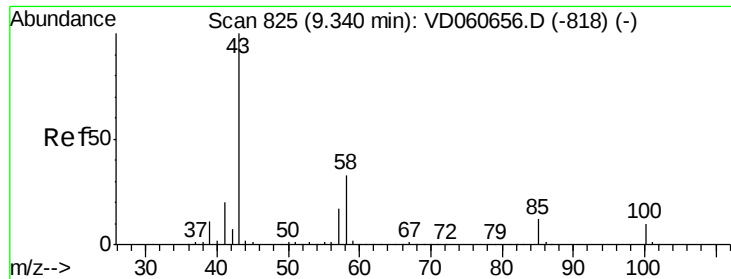
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.43 min Scan# 834
Delta R.T. -0.03 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

Tgt Ion: 98 Resp: 1678592
Ion Ratio Lower Upper
98 100
100 68.9 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.372 ug/l

RT: 9.43 min Scan# 834

Delta R.T. 0.09 min

Lab File: VD060716.D

Acq: 26 Dec 2018 17:15

Instrument :

MSVOA_D

ClientSampleId :

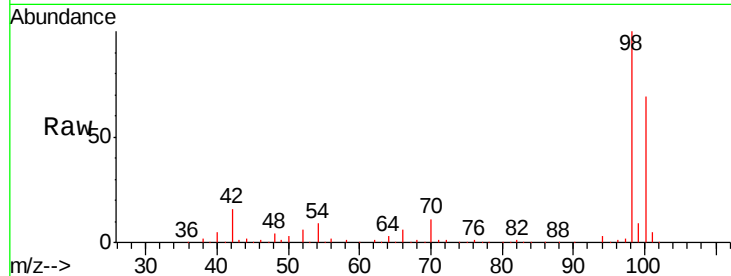
OR-01-122618-A

Tgt Ion: 43 Resp: 9379

Ion Ratio Lower Upper

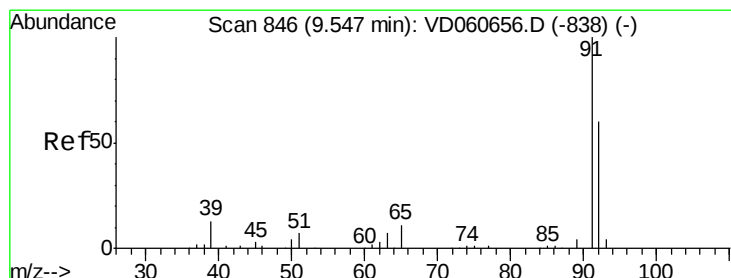
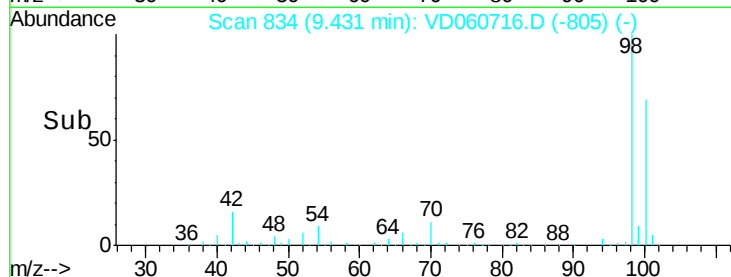
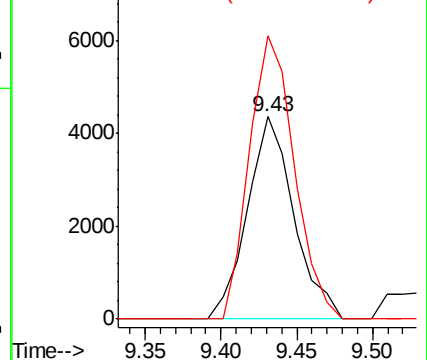
43 100

58 140.0 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 1.430 ug/l

RT: 9.53 min Scan# 844

Delta R.T. -0.02 min

Lab File: VD060716.D

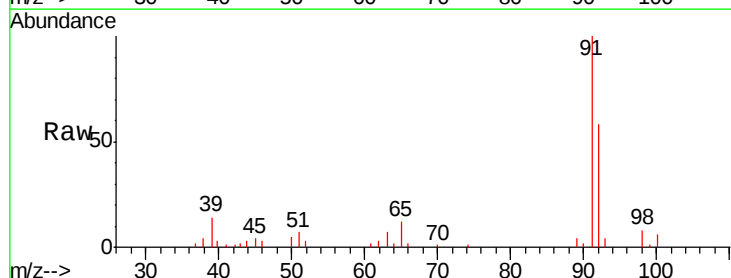
Acq: 26 Dec 2018 17:15

Tgt Ion: 92 Resp: 48126

Ion Ratio Lower Upper

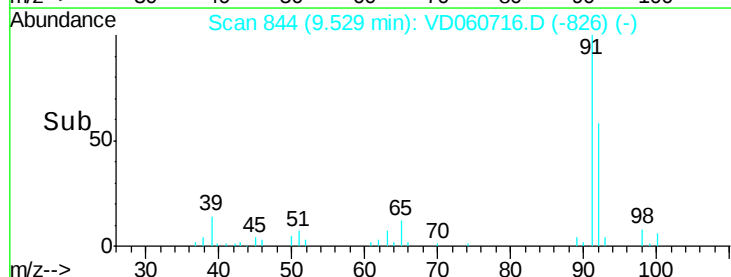
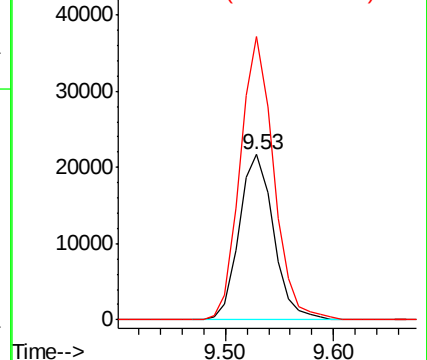
92 100

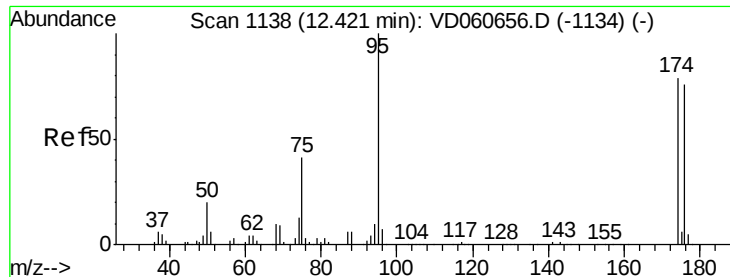
91 171.4 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

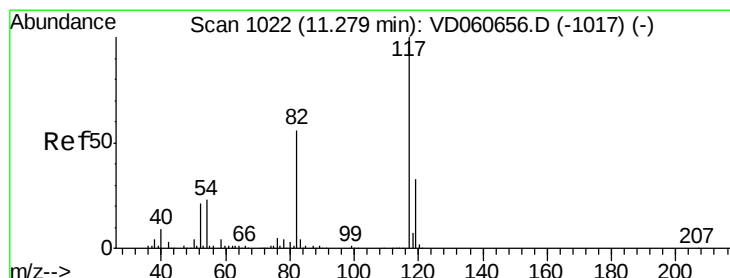
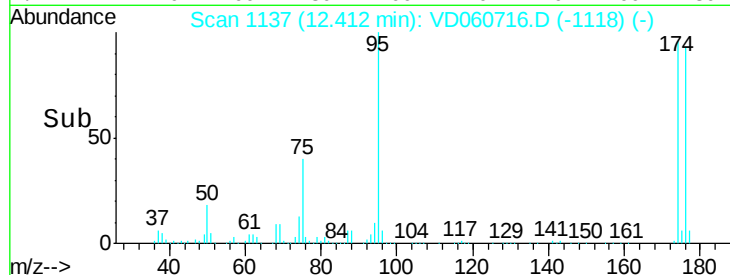
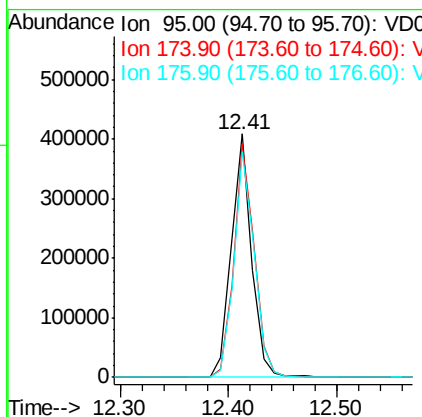
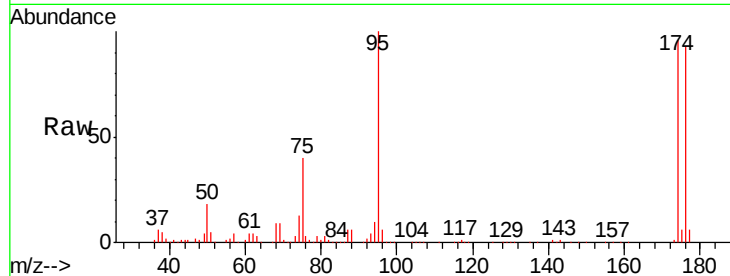




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.41 min Scan# 1137
Delta R.T. -0.01 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

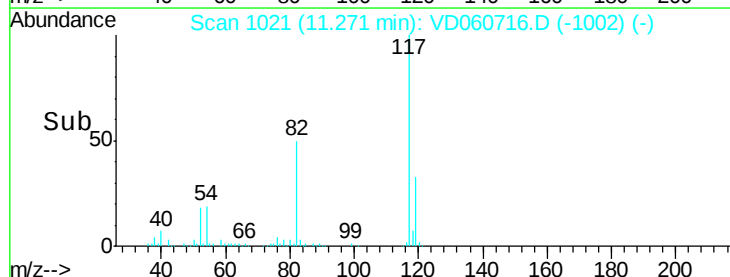
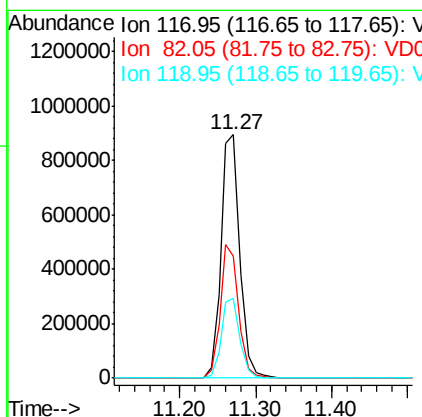
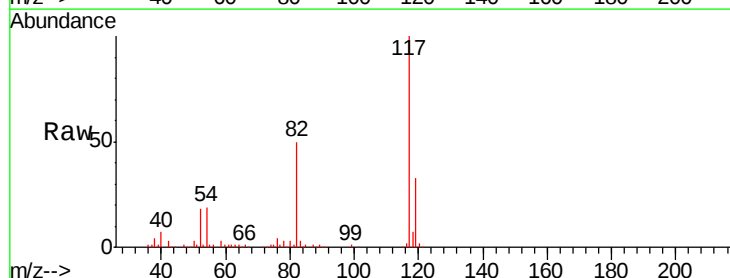
Instrument :
MSVOA_D
ClientSampleId :
OR-01-122618-A

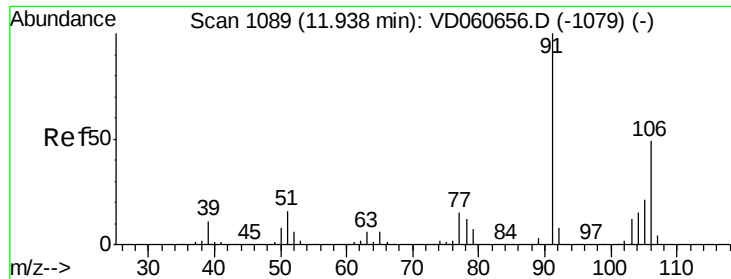
Tgt Ion: 95 Resp: 533370
Ion Ratio Lower Upper
95 100
174 96.1 0.0 158.2
176 92.6 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 1021
Delta R.T. -0.01 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

Tgt Ion: 117 Resp: 1546021
Ion Ratio Lower Upper
117 100
82 49.9 44.5 66.7
119 32.6 26.3 39.5

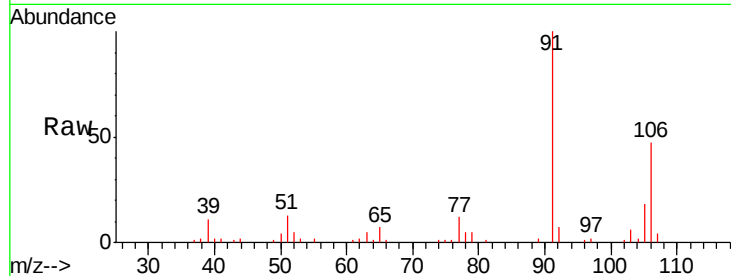




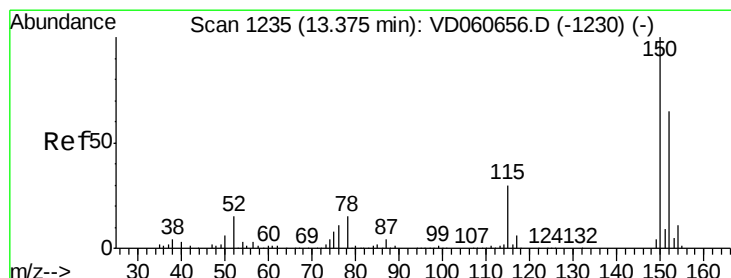
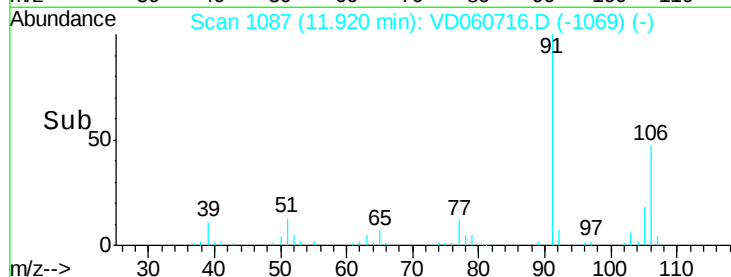
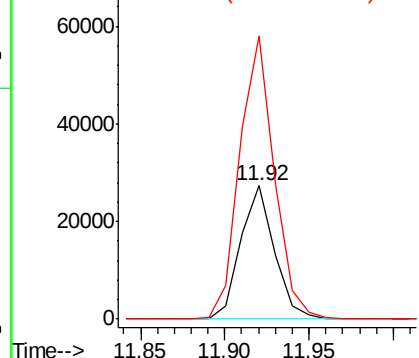
#69
o-Xylene
Concen: 1.869 ug/l
RT: 11.92 min Scan# 1087
Delta R.T. -0.02 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

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

Tgt Ion:106 Resp: 37909
Ion Ratio Lower Upper
106 100
91 212.7 101.5 304.5

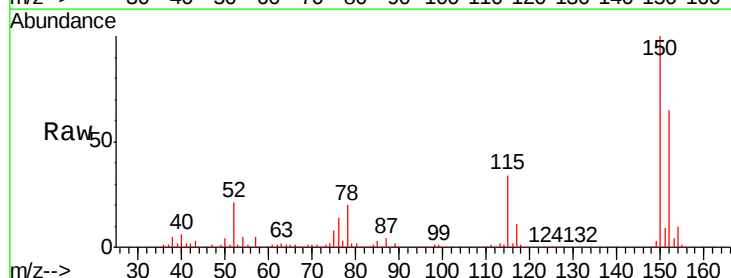


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

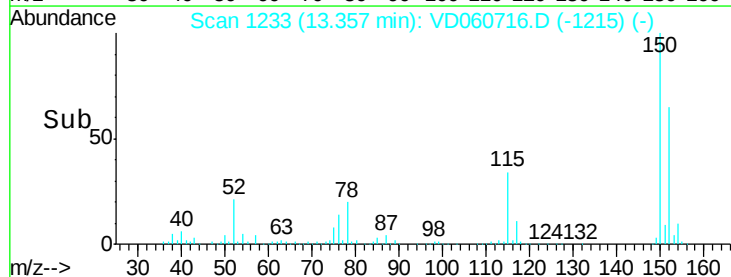
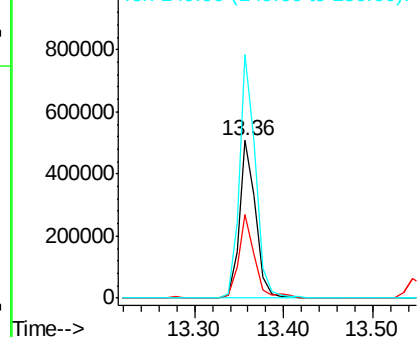


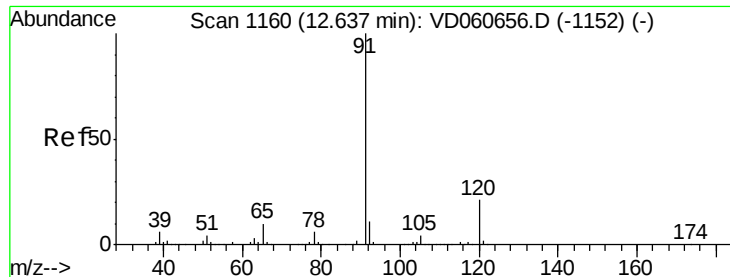
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1233
Delta R.T. -0.02 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

Tgt Ion:152 Resp: 645446
Ion Ratio Lower Upper
152 100
115 53.1 24.1 72.3
150 154.8 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: 1.301 ug/l

RT: 12.62 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VD060716.D

Acq: 26 Dec 2018 17:15

Instrument :

MSVOA_D

ClientSampleId :

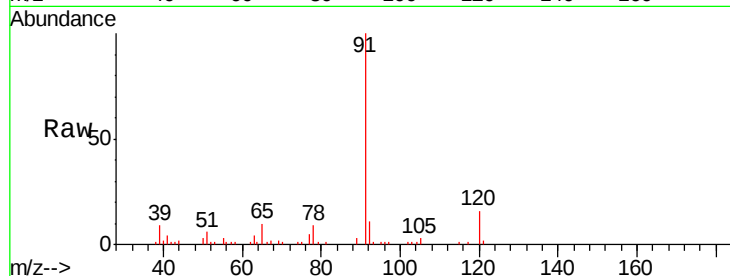
OR-01-122618-A

Tgt Ion: 91 Resp: 76454

Ion Ratio Lower Upper

91 100

120 16.4 10.4 31.2

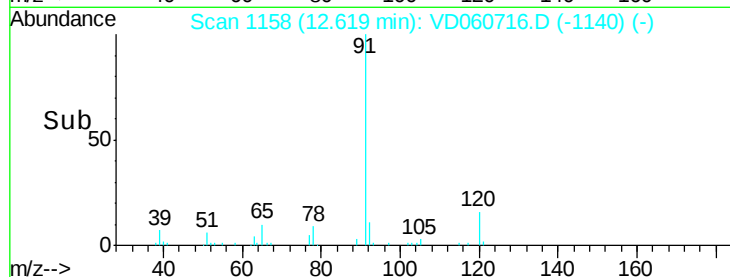


Abundance Ion 91.00 (90.70 to 91.70): VD060716.D (-1140) (-)

Ion 120.05 (119.75 to 120.75): VD060716.D (-1140) (-)

12.62

Time-->



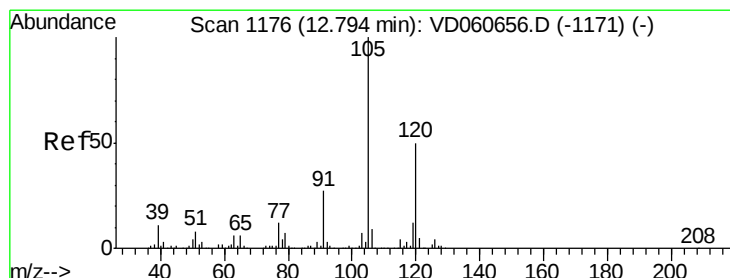
Abundance

Ion 91.00 (90.70 to 91.70): VD060716.D (-1140) (-)

Ion 120.05 (119.75 to 120.75): VD060716.D (-1140) (-)

12.62

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 4.796 ug/l

RT: 12.78 min Scan# 1174

Delta R.T. -0.02 min

Lab File: VD060716.D

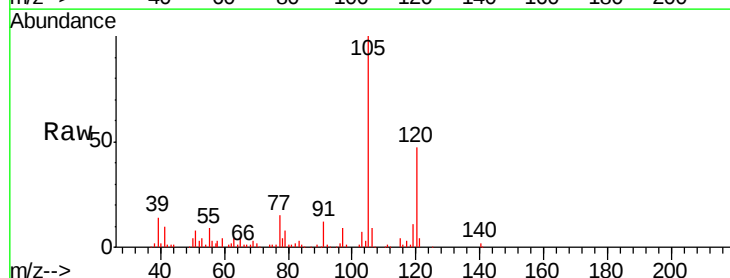
Acq: 26 Dec 2018 17:15

Tgt Ion: 105 Resp: 170202

Ion Ratio Lower Upper

105 100

120 46.9 24.8 74.4

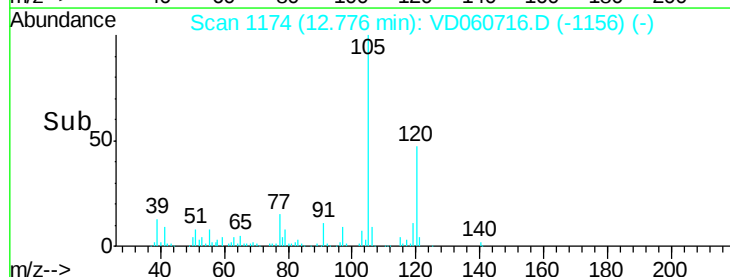


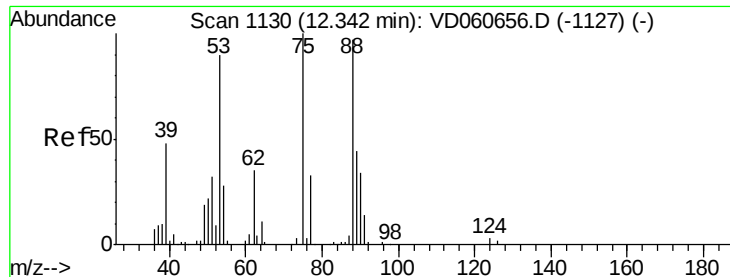
Abundance Ion 105.05 (104.75 to 105.75): VD060716.D (-1156) (-)

Ion 120.05 (119.75 to 120.75): VD060716.D (-1156) (-)

12.78

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 106.315 ug/l

RT: 12.41 min Scan# 1137

Delta R.T. 0.07 min

Lab File: VD060716.D

Acq: 26 Dec 2018 17:15

Instrument :

MSVOA_D

ClientSampleId :

OR-01-122618-A

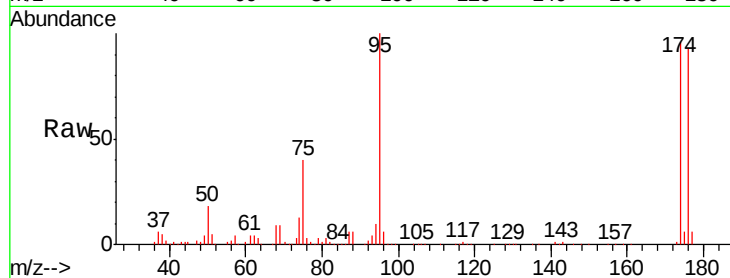
Tgt Ion: 75 Resp: 215875

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

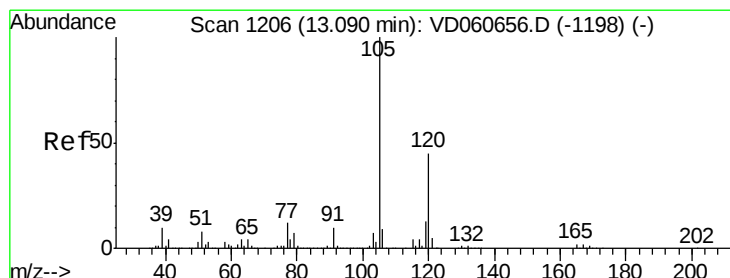
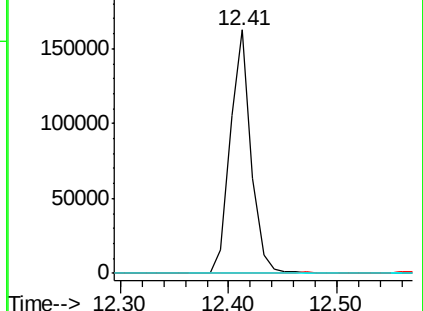
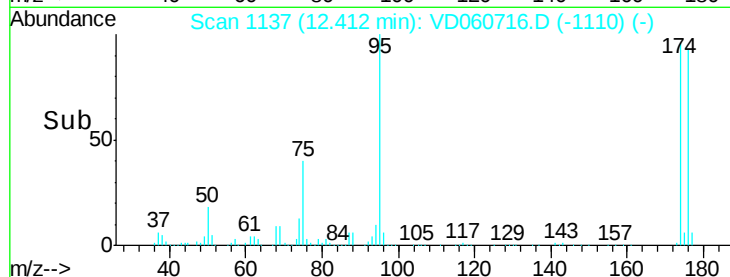
89 0.0 35.1 52.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#84

1,2,4-Trimethylbenzene

Concen: 6.910 ug/l

RT: 13.08 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VD060716.D

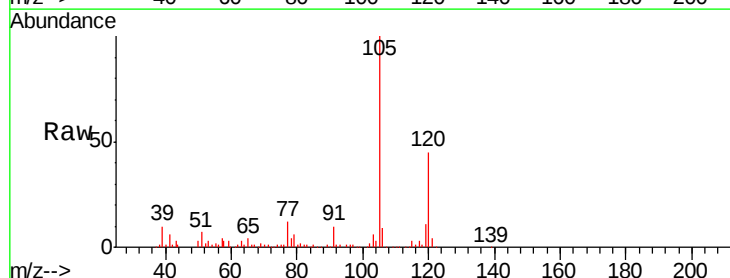
Acq: 26 Dec 2018 17:15

Tgt Ion:105 Resp: 252537

Ion Ratio Lower Upper

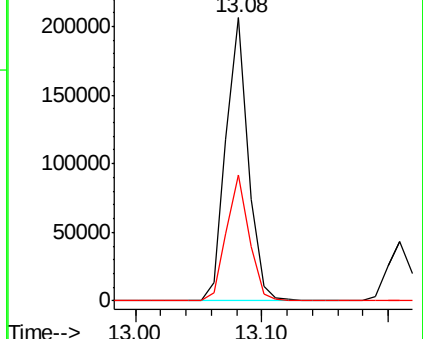
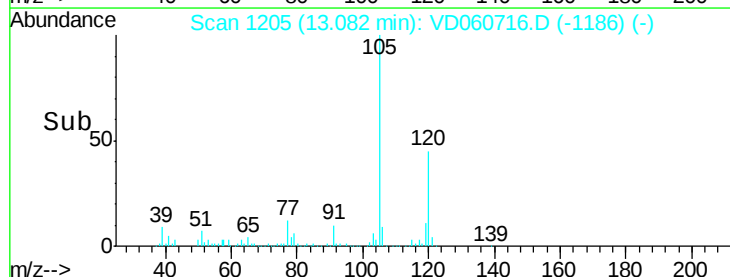
105 100

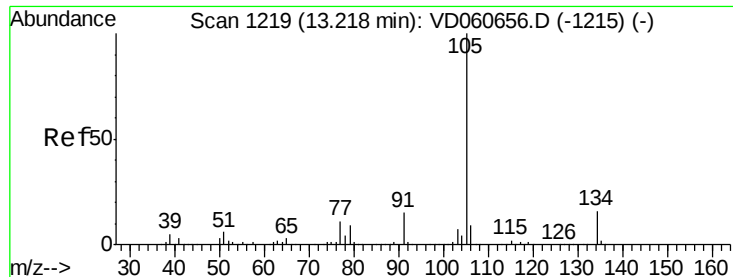
120 44.6 22.4 67.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

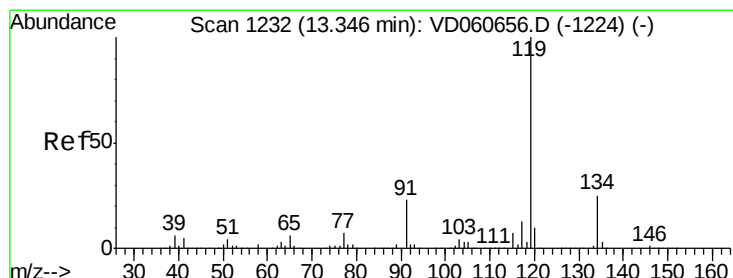
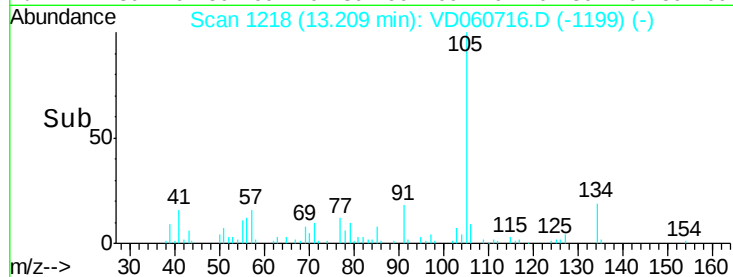
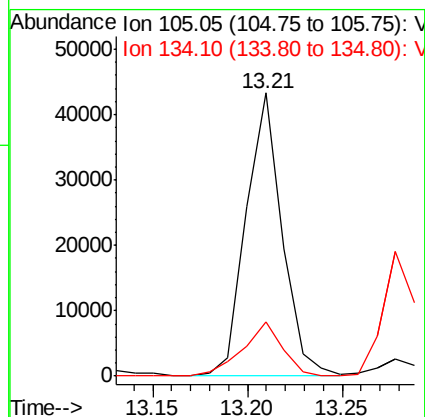
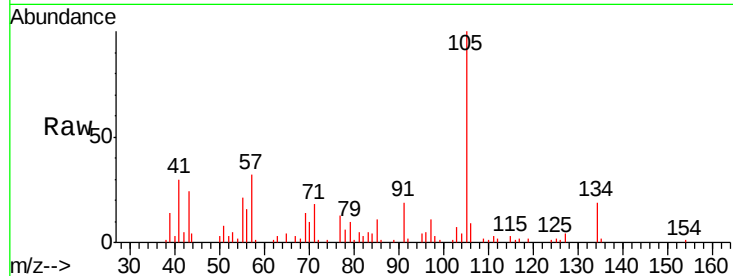




#85
 sec-Butylbenzene
 Concen: 1.163 ug/l
 RT: 13.21 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VD060716.D
 Acq: 26 Dec 2018 17:15

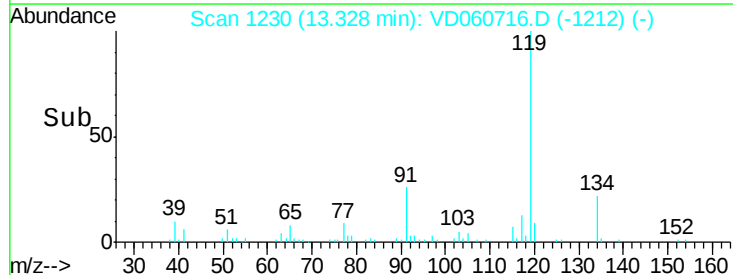
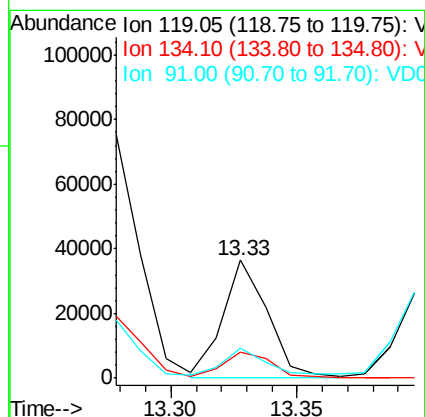
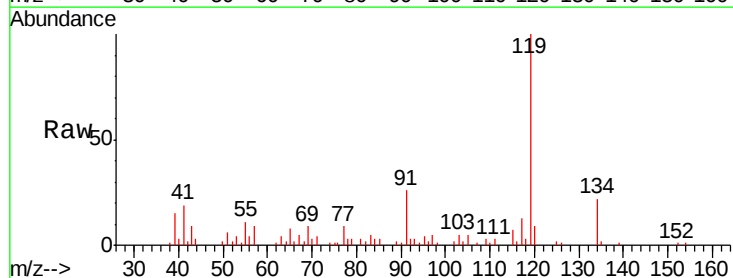
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-122618-A

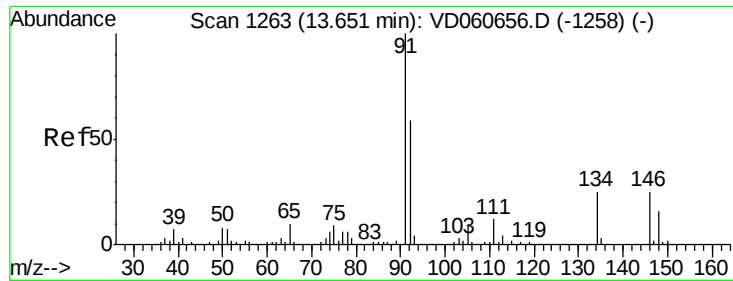
Tgt Ion:105 Resp: 57260
 Ion Ratio Lower Upper
 105 100
 134 19.2 8.2 24.4



#86
 p-Isopropyltoluene
 Concen: 1.116 ug/l
 RT: 13.33 min Scan# 1230
 Delta R.T. -0.02 min
 Lab File: VD060716.D
 Acq: 26 Dec 2018 17:15

Tgt Ion:119 Resp: 44381
 Ion Ratio Lower Upper
 119 100
 134 22.5 12.5 37.5
 91 25.9 11.4 34.2

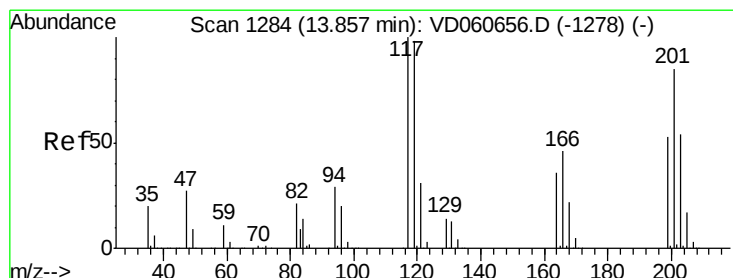
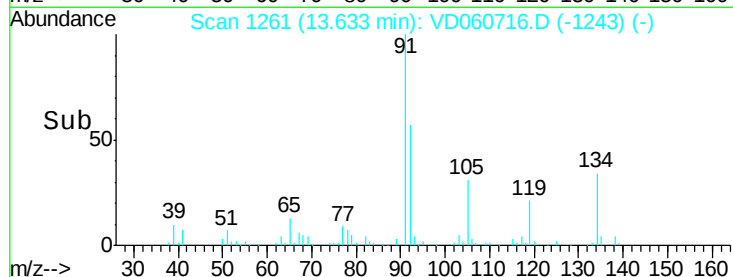
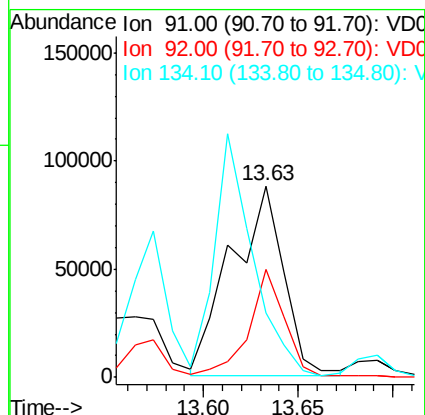
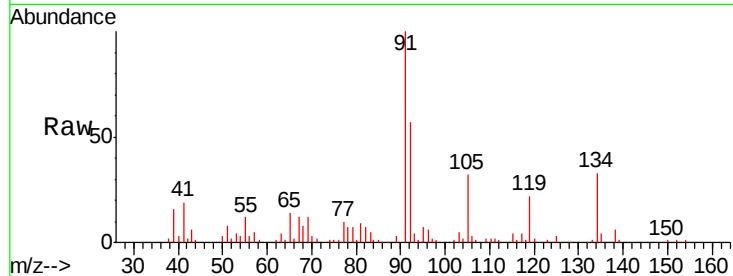




#89
n-Butylbenzene
Concen: 4.198 ug/l
RT: 13.63 min Scan# 1261
Delta R.T. -0.02 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

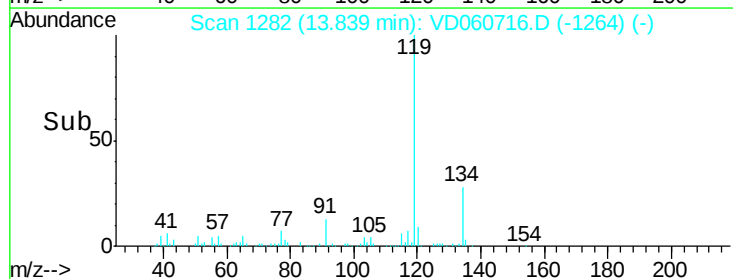
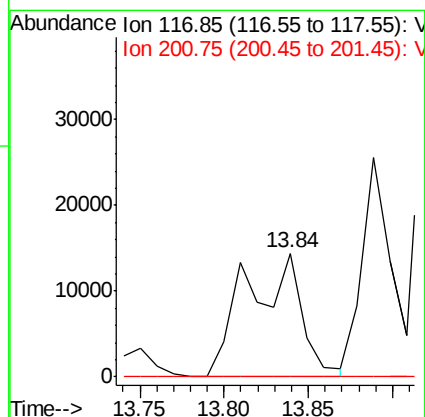
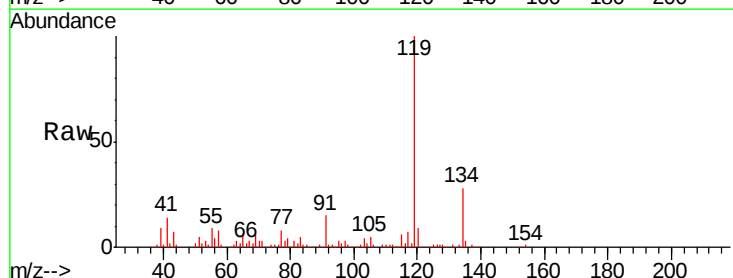
Instrument :
MSVOA_D
ClientSampleId :
OR-01-122618-A

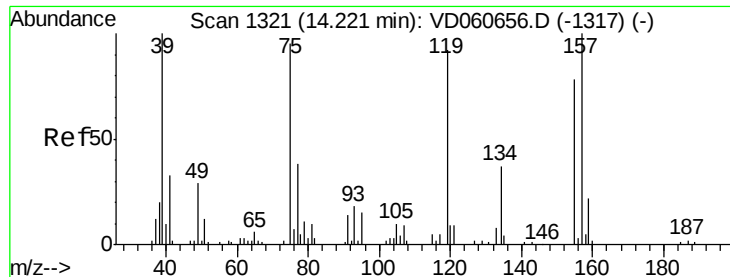
Tgt Ion: 91 Resp: 170540
Ion Ratio Lower Upper
91 100
92 56.5 29.7 89.1
134 33.5 12.7 38.1



#90
Hexachloroethane
Concen: 3.344 ug/l
RT: 13.84 min Scan# 1282
Delta R.T. -0.02 min
Lab File: VD060716.D
Acq: 26 Dec 2018 17:15

Tgt Ion: 117 Resp: 32658
Ion Ratio Lower Upper
117 100
201 0.0 42.6 127.8#

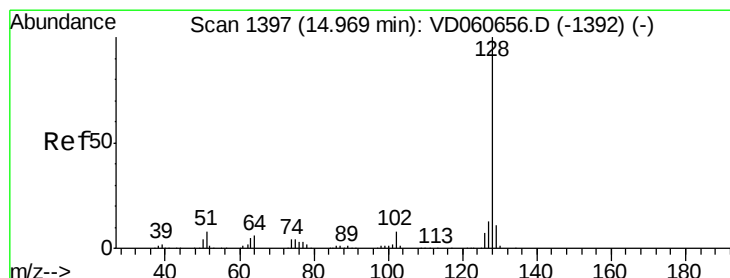
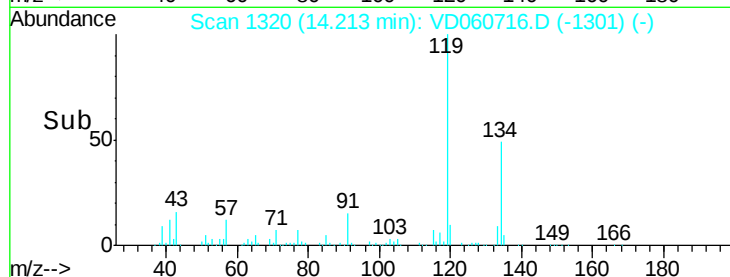
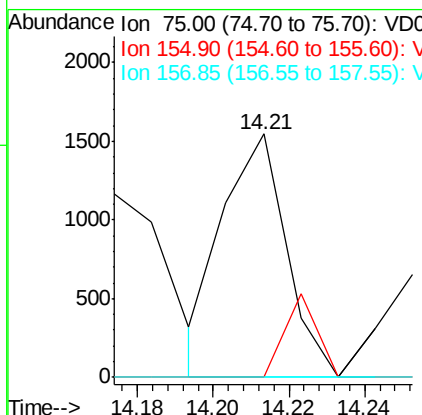
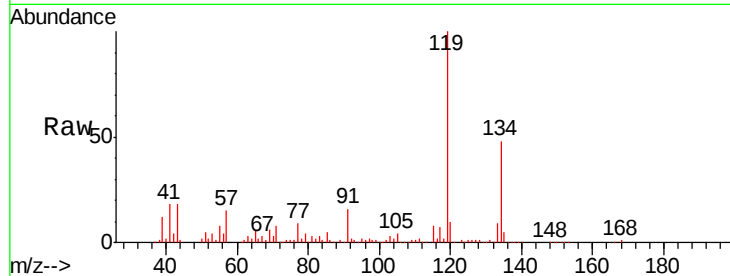




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.051 ug/l
 RT: 14.21 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VD060716.D
 Acq: 26 Dec 2018 17:15

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

Tgt Ion: 75 Resp: 1795
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.1 123.4#
 157 0.0 52.5 157.6#



#95
 Naphthalene
 Concen: 4.067 ug/l
 RT: 14.95 min Scan# 1395
 Delta R.T. -0.02 min
 Lab File: VD060716.D
 Acq: 26 Dec 2018 17:15

Tgt Ion: 128 Resp: 68722
 Ion Ratio Lower Upper
 128 100
 127 13.9 10.1 15.1
 129 15.4 8.6 13.0#

