

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032219\
 Data File : VD061256.D
 Acq On : 22 Mar 2019 13:05
 Operator : VA/AP
 Sample : K2024-02
 Misc : 7.89g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RCA-09

Quant Time: Mar 22 23:26:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.11	168	589162	50.00	ug/l	0.07
34) 1,4-Difluorobenzene	8.27	114	1085817	50.00	ug/l	0.06
63) Chlorobenzene-d5	12.41	117	881930	50.00	ug/l	0.05
72) 1,4-Dichlorobenzene-d4	14.54	152	260770	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.51	65	258069	52.62	ug/l	0.07
Spiked Amount			Recovery	=	105.24%	
35) Dibromofluoromethane	6.98	113	821	0.10	ug/l	0.06
Spiked Amount			Recovery	=	0.20%	
50) Toluene-d8	10.46	98	928006	45.86	ug/l	0.06
Spiked Amount			Recovery	=	91.72%	
62) 4-Bromofluorobenzene	13.59	95	292058	37.20	ug/l	0.04
Spiked Amount			Recovery	=	74.40%	

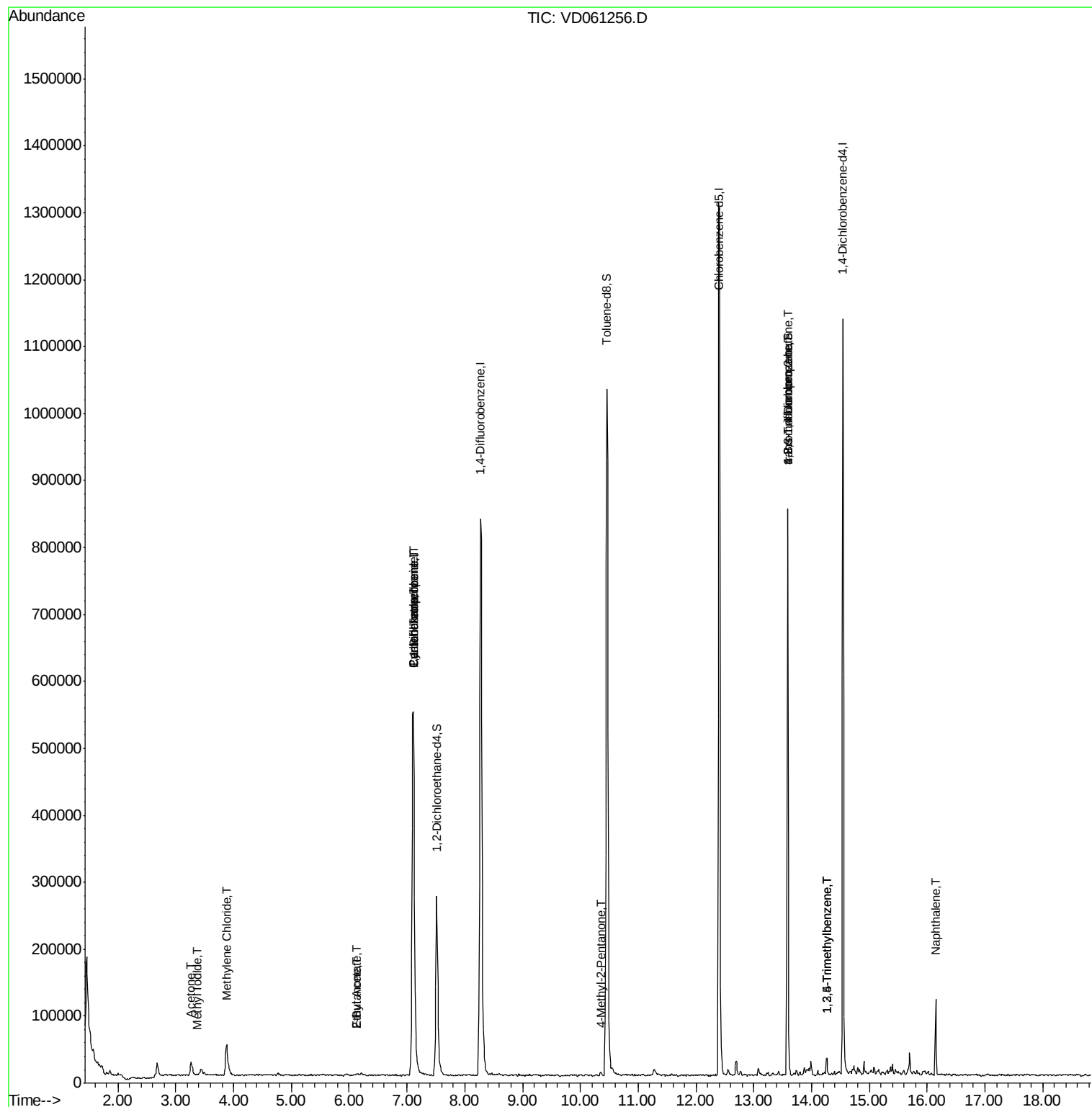
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.21	94	621	Below Cal	#	8
10) Methyl Iodide	3.38	142	1504	3.076	ug/l #	75
16) Acetone	3.26	43	42314	30.173	ug/l	94
20) Methylene Chloride	3.88	84	36116	1.086	ug/l	95
25) 2-Butanone	6.14	43	6724	4.225	ug/l #	74
31) Cyclohexane	7.10	56	9973	1.149	ug/l #	1
36) 1,1-Dichloropropene	7.10	75	42973	4.591	ug/l #	46
37) Ethyl Acetate	6.14	43	6724	1.531	ug/l #	66
38) Carbon Tetrachloride	7.11	117	57112	5.540	ug/l #	15
51) 4-Methyl-2-Pentanone	10.35	43	4222	1.133	ug/l	96
76) 1,2,3-Trichloropropane	13.58	75	108007	28.789	ug/l #	44
80) 1,3,5-Trimethylbenzene	14.27	105	15226	1.067	ug/l	86
81) trans-1,4-Dichloro-2-buten	13.58	75	108019	97.661	ug/l #	17
84) 1,2,4-Trimethylbenzene	14.27	105	15226	1.067	ug/l	86
95) Naphthalene	16.15	128	69975	13.899	ug/l	98

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

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Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.11 min Scan# 578

Delta R.T. 0.07 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

Instrument :

MSVOA_D

ClientSampleId :

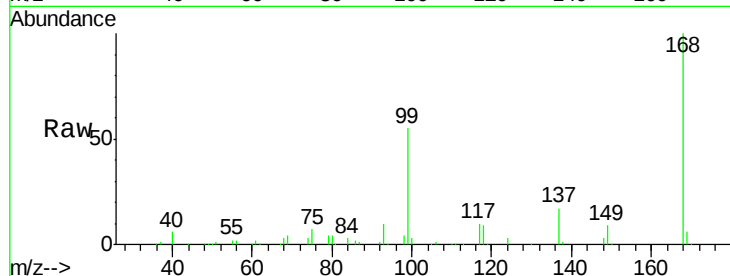
RCA-09

Tot Ion:168 Resp: 589162

Ion Ratio Lower Upper

168 100

99 54.8 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.11

200000

150000

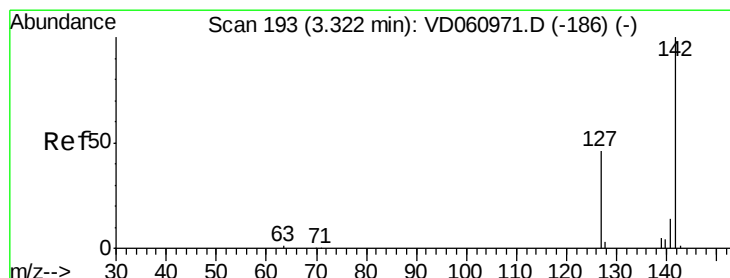
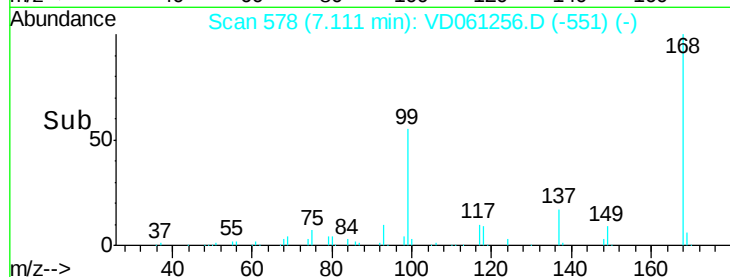
100000

50000

0

Time-->

7.00 7.10 7.20



#10

Methyl Iodide

Concen: 3.076 ug/l

RT: 3.38 min Scan# 199

Delta R.T. 0.06 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

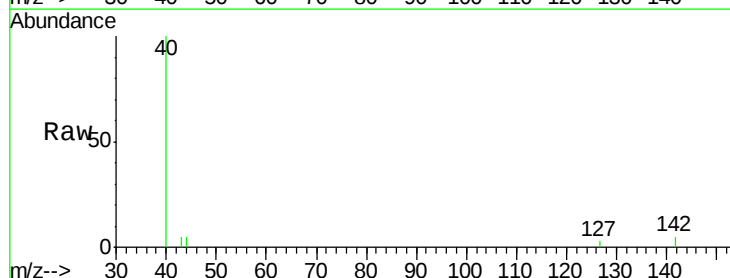
Tgt Ion:142 Resp: 1504

Ion Ratio Lower Upper

142 100

127 60.6 36.8 55.2#

141 0.0 11.2 16.8#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.38

600

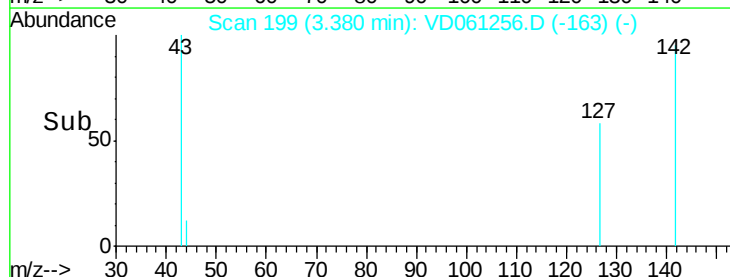
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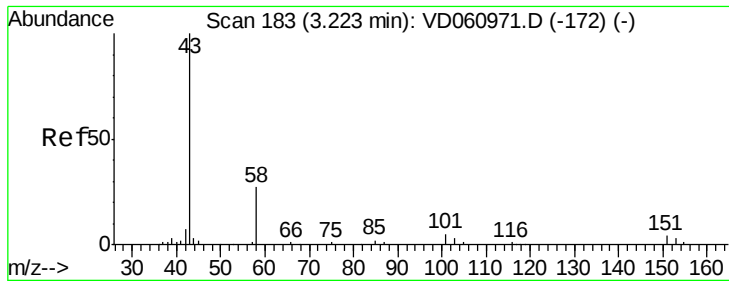
200

0

Time-->

3.30 3.35 3.40 3.45

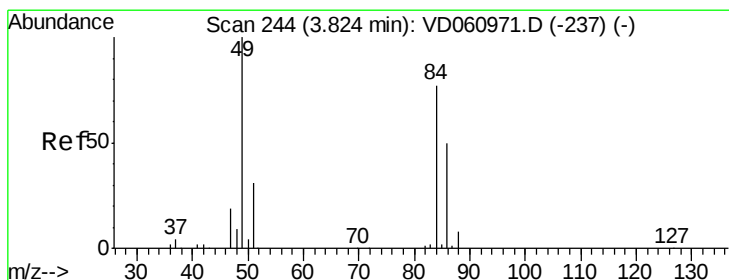
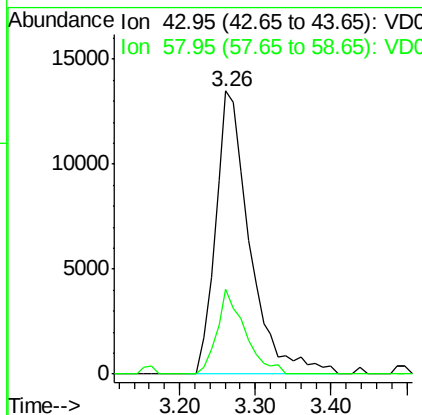
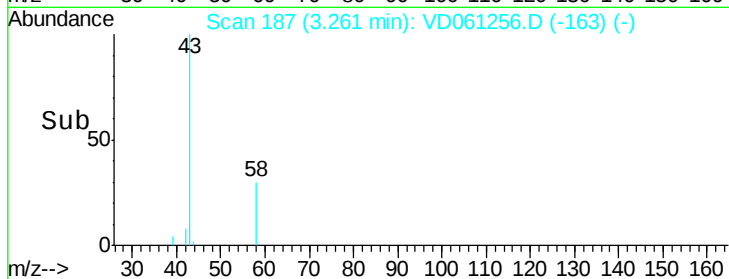
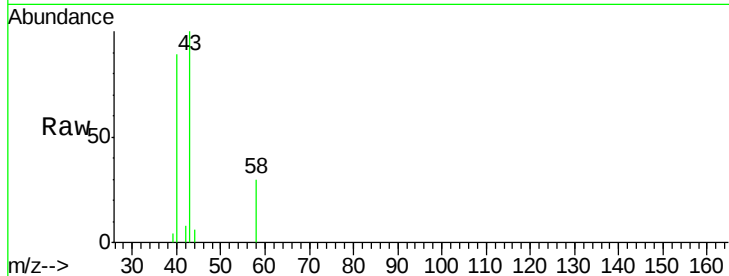




#16
Acetone
Concen: 30.173 ug/l
RT: 3.26 min Scan# 187
Delta R.T. 0.04 min
Lab File: VD061256.D
Acq: 22 Mar 2019 13:05

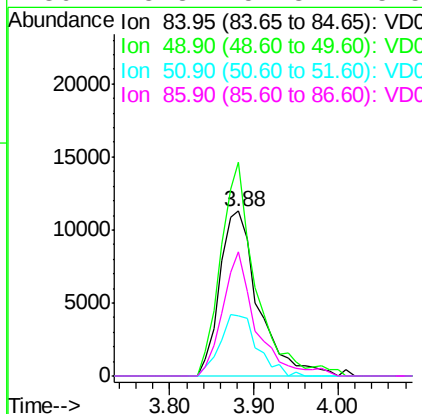
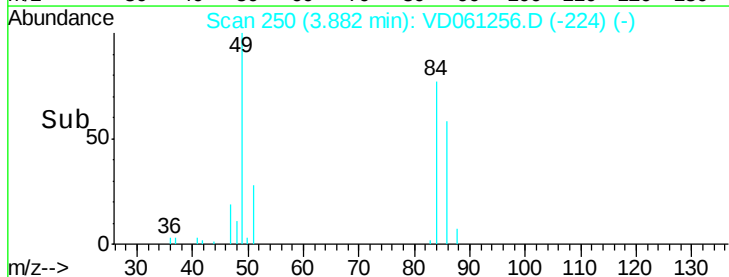
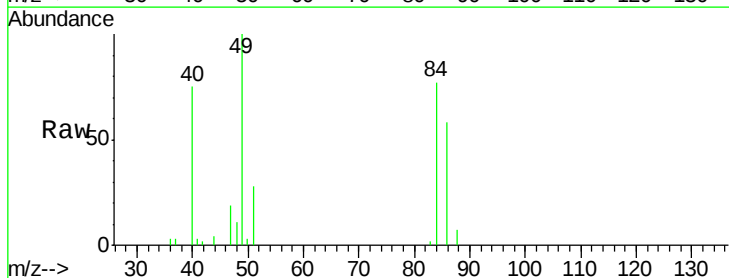
Instrument :
MSVOA_D
ClientSampleId :
RCA-09

Tot Ion: 43 Resp: 42314
Ion Ratio Lower Upper
43 100
58 29.9 21.6 32.4



#20
Methylene Chloride
Concen: 1.086 ug/l
RT: 3.88 min Scan# 250
Delta R.T. 0.06 min
Lab File: VD061256.D
Acq: 22 Mar 2019 13:05

Tgt Ion: 84 Resp: 36116
Ion Ratio Lower Upper
84 100
49 129.6 104.2 156.2
51 36.8 32.3 48.5
86 75.3 52.3 78.5





#25

2-Butanone

Concen: 4.225 ug/l

RT: 6.14 min Scan# 479

Delta R.T. 0.07 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

Instrument :

MSVOA_D

ClientSampleId :

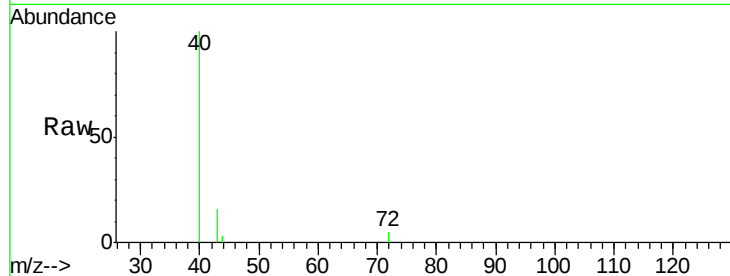
RCA-09

Tot Ion: 43 Resp: 6724

Ion Ratio Lower Upper

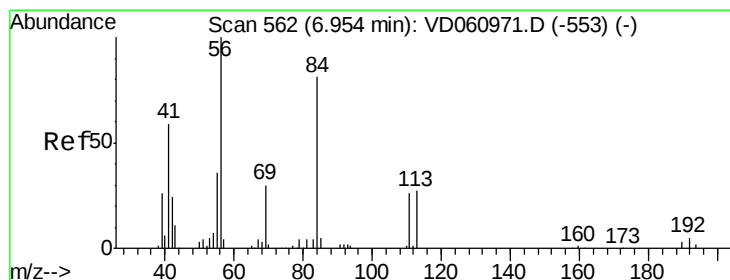
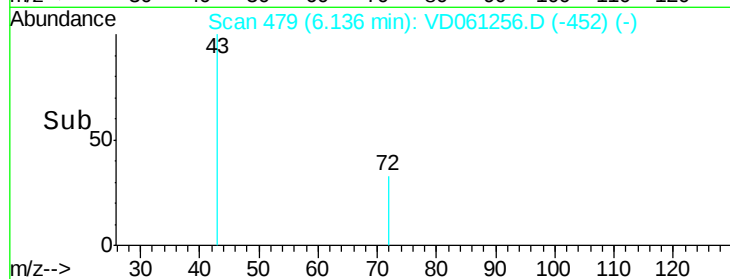
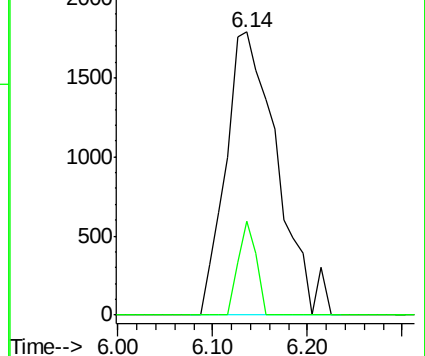
43 100

72 33.3 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.149 ug/l

RT: 7.10 min Scan# 577

Delta R.T. 0.15 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

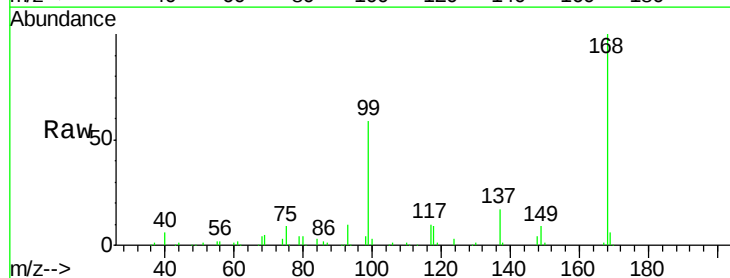
Tgt Ion: 56 Resp: 9973

Ion Ratio Lower Upper

56 100

69 249.1 24.0 36.0#

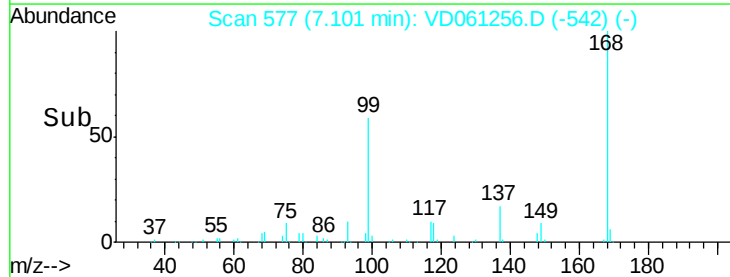
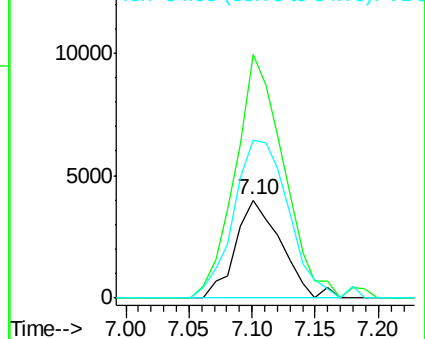
84 161.1 65.8 98.6#

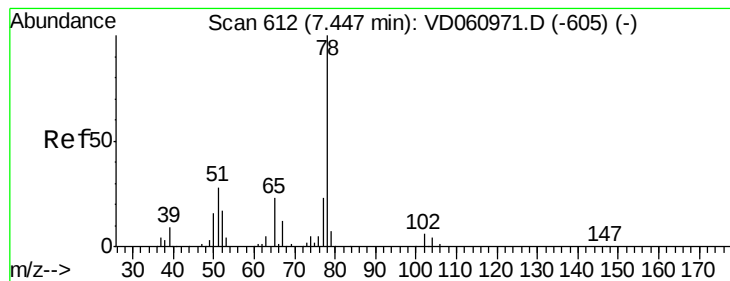


Abundance Ion 55.95 (55.65 to 56.65): VDC

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: 7.51 min Scan# 619

Delta R.T. 0.07 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

Instrument :

MSVOA_D

ClientSampleId :

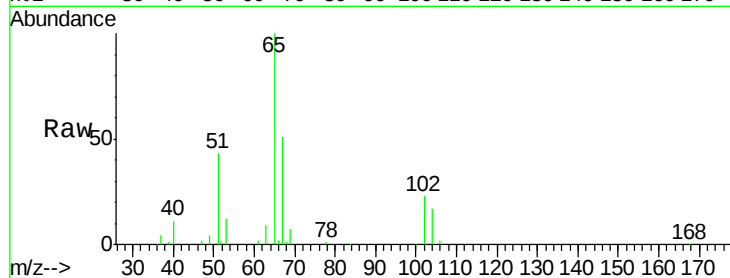
RCA-09

Tot Ion: 65 Resp: 258069

Ion Ratio Lower Upper

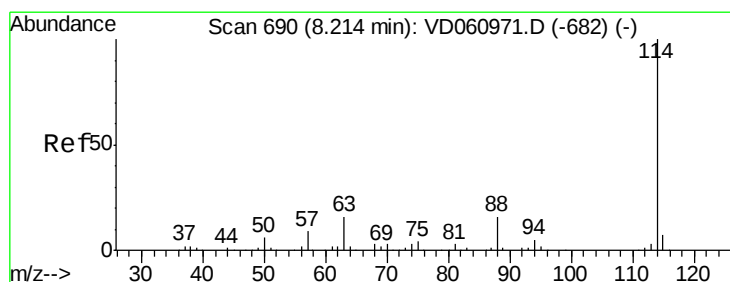
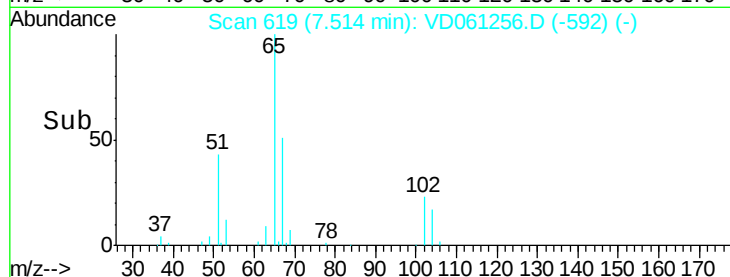
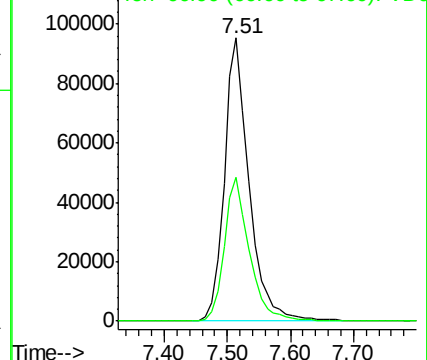
65 100

67 51.0 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.27 min Scan# 696

Delta R.T. 0.06 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

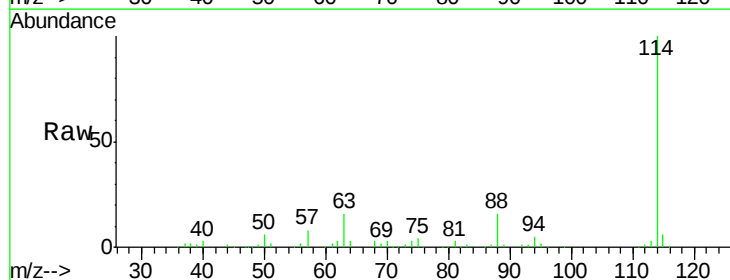
Tgt Ion: 114 Resp: 1085817

Ion Ratio Lower Upper

114 100

63 16.1 0.0 31.4

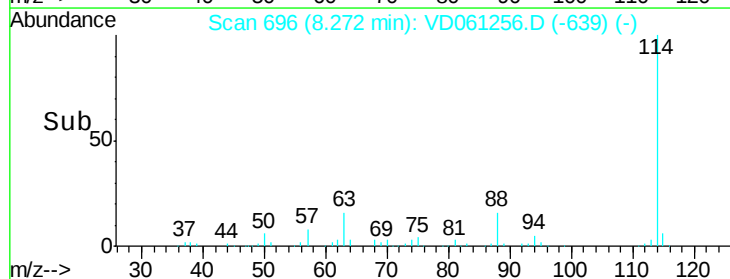
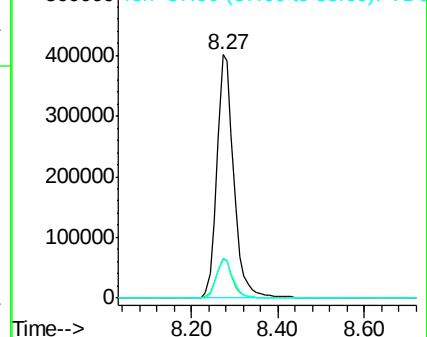
88 16.5 0.0 33.0

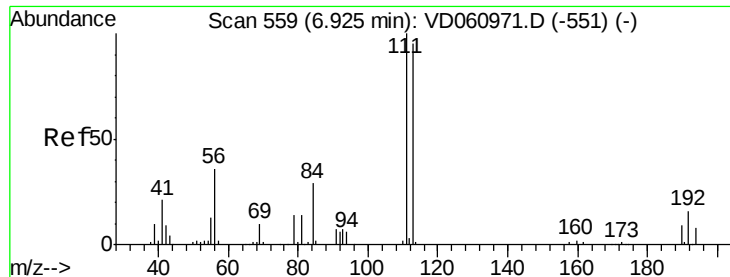


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

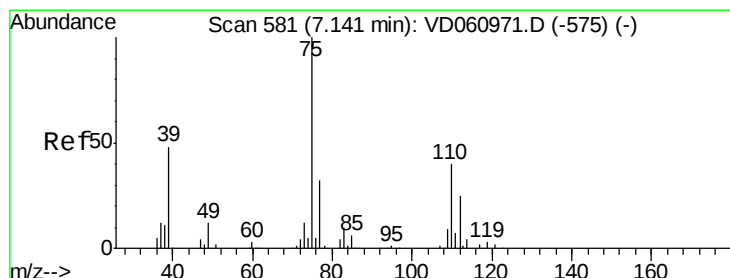
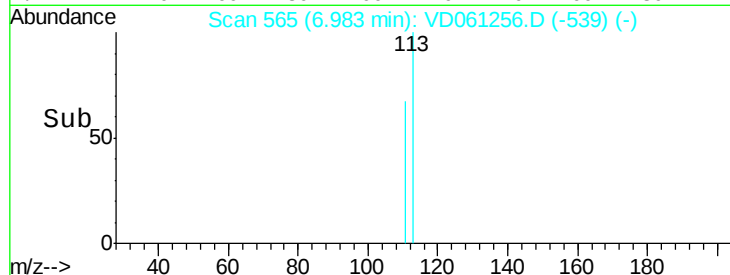
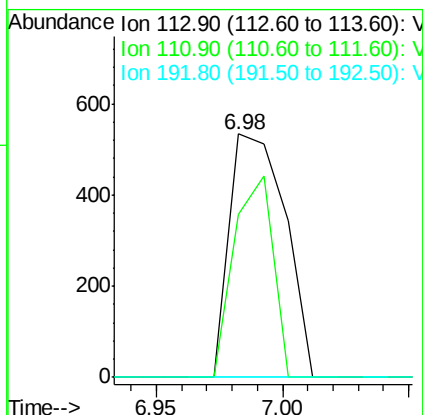
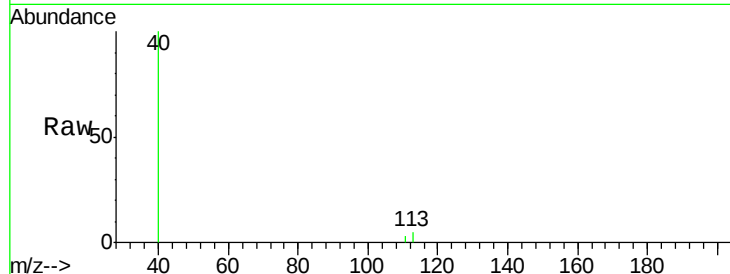




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.98 min Scan# 565
 Delta R.T. 0.06 min
 Lab File: VD061256.D
 Acq: 22 Mar 2019 13:05

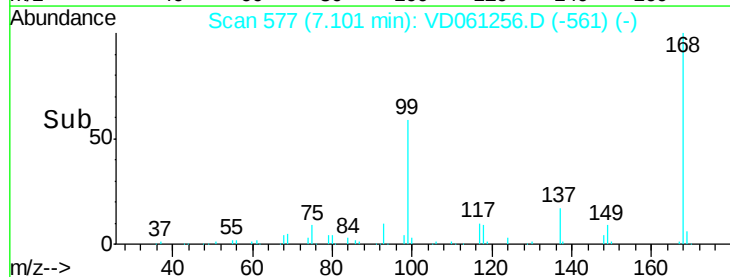
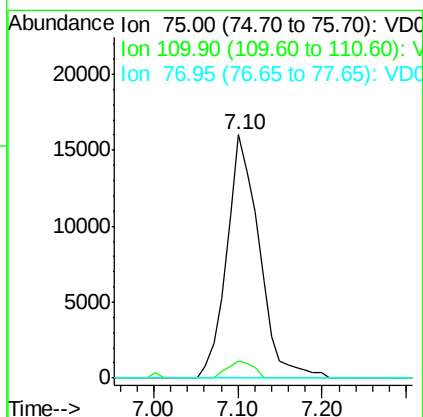
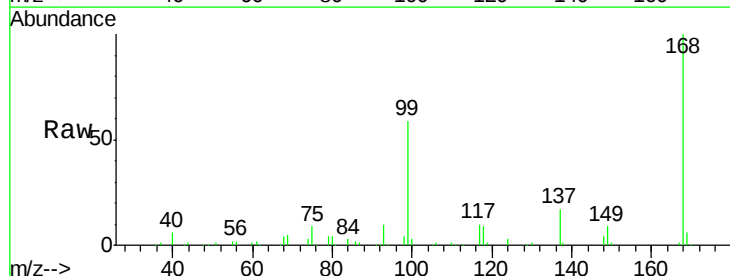
Instrument :
 MSVOA_D
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 RCA-09

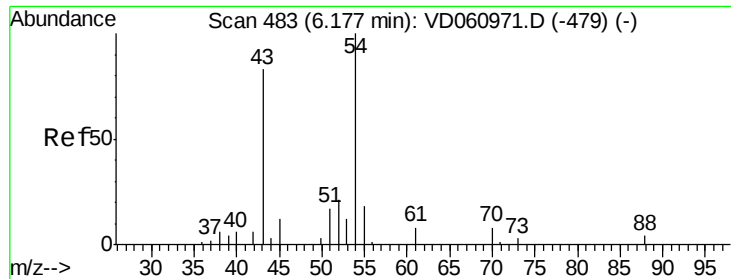
Tot Ion:113 Resp: 821
 Ion Ratio Lower Upper
 113 100
 111 66.9 84.2 126.4#
 192 0.0 13.1 19.7#



#36
 1,1-Dichloropropene
 Concen: 4.591 ug/l
 RT: 7.10 min Scan# 577
 Delta R.T. -0.04 min
 Lab File: VD061256.D
 Acq: 22 Mar 2019 13:05

Tgt Ion: 75 Resp: 42973
 Ion Ratio Lower Upper
 75 100
 110 6.9 19.7 59.1#
 77 0.0 24.7 37.1#

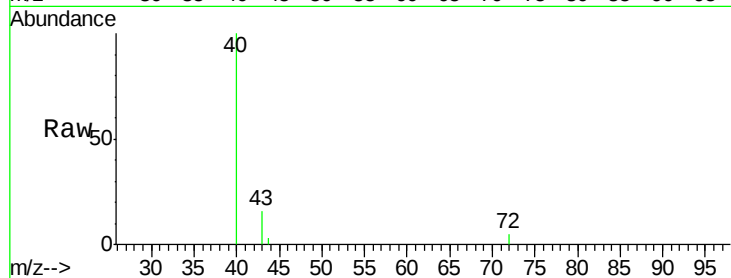




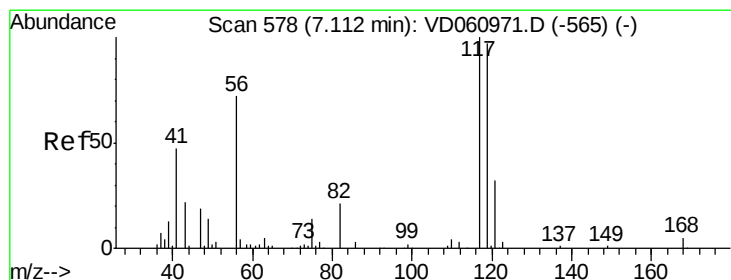
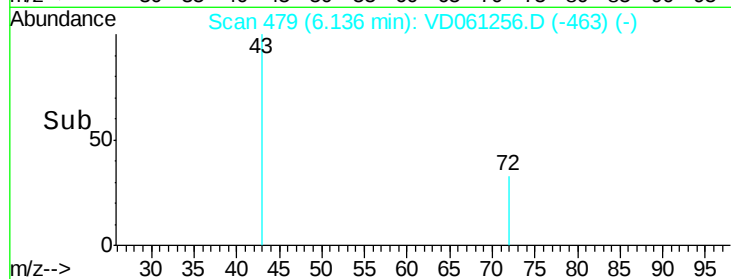
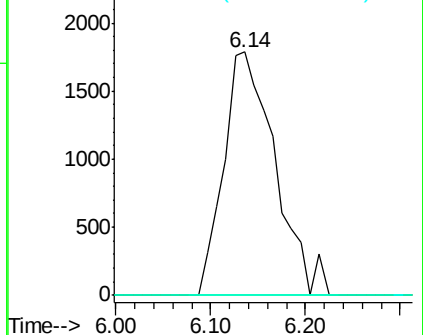
#37
Ethyl Acetate
Concen: 1.531 ug/l
RT: 6.14 min Scan# 479
Delta R.T. -0.04 min
Lab File: VD061256.D
Acq: 22 Mar 2019 13:05

Instrument :
MSVOA_D
ClientSampleId :
RCA-09

Tot Ion: 43 Resp: 6724
Ion Ratio Lower Upper
43 100
61 0.0 13.7 20.5#
70 0.0 7.1 10.7#

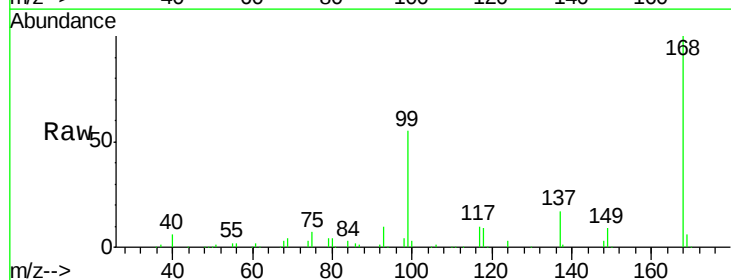


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

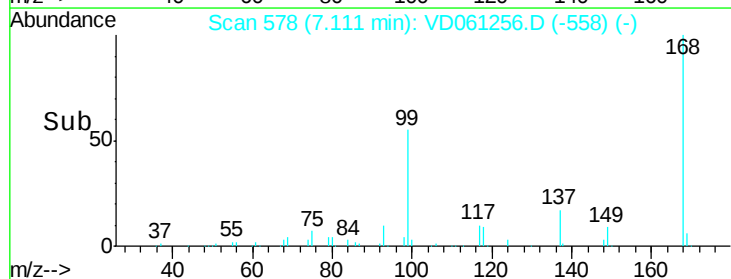
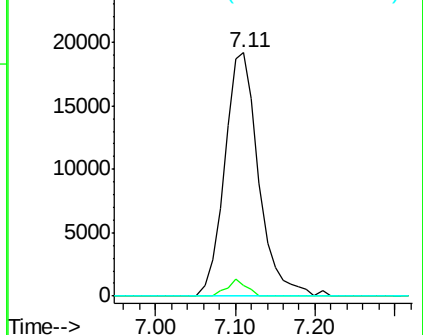


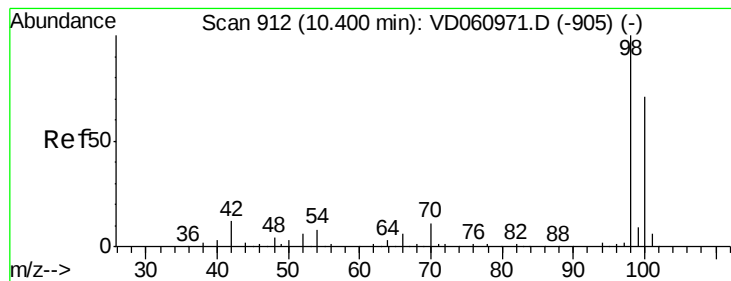
#38
Carbon Tetrachloride
Concen: 5.540 ug/l
RT: 7.11 min Scan# 578
Delta R.T. -0.00 min
Lab File: VD061256.D
Acq: 22 Mar 2019 13:05

Tgt Ion: 117 Resp: 57112
Ion Ratio Lower Upper
117 100
119 4.3 77.8 116.8#
121 0.0 25.3 37.9#



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: 10.46 min Scan# 918

Delta R.T. 0.06 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

Instrument :

MSVOA_D

ClientSampleId :

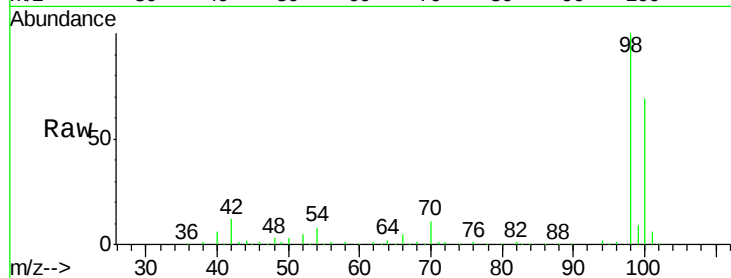
RCA-09

Tot Ion: 98 Resp: 928006

Ion Ratio Lower Upper

98 100

100 69.0 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.46

400000

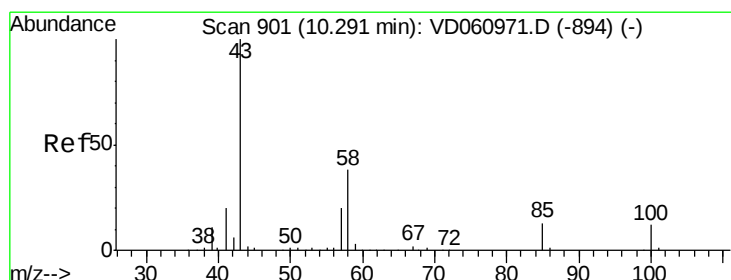
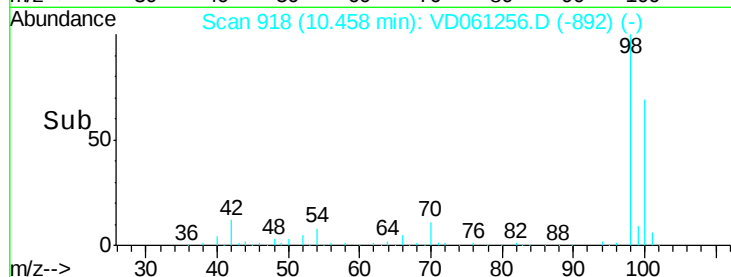
300000

200000

100000

0

Time--> 10.30 10.40 10.50 10.60



#51

4-Methyl-2-Pentanone

Concen: 1.133 ug/l

RT: 10.35 min Scan# 907

Delta R.T. 0.06 min

Lab File: VD061256.D

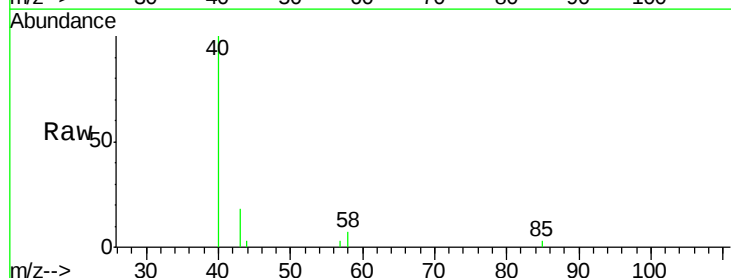
Acq: 22 Mar 2019 13:05

Tgt Ion: 43 Resp: 4222

Ion Ratio Lower Upper

43 100

58 40.2 30.2 45.2



Abundance Ion 42.95 (42.65 to 43.65): VD060971.D (-894) (-)

Ion 57.95 (57.65 to 58.65): VD060971.D (-894) (-)

10.35

2500

2000

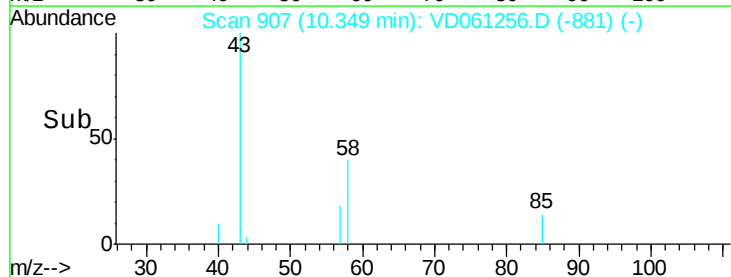
1500

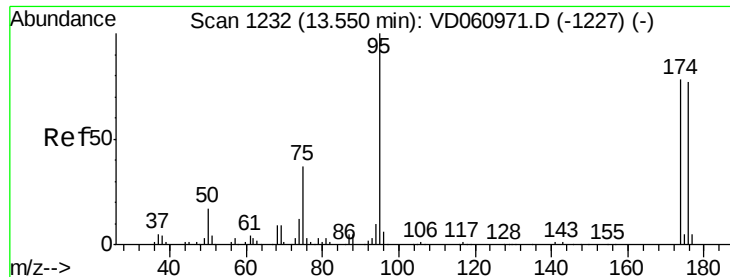
1000

500

0

Time--> 10.30 10.35 10.40





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.59 min Scan# 1236

Delta R.T. 0.04 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

Instrument :

MSVOA_D

ClientSampleId :

RCA-09

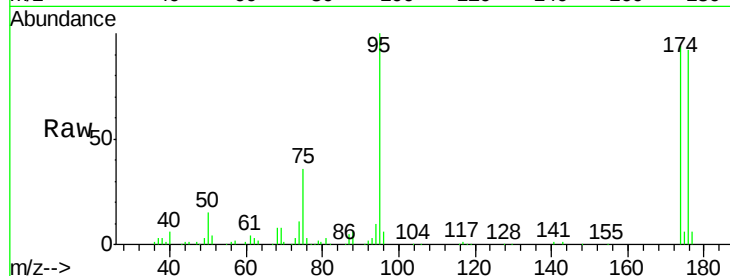
Tot Ion: 95 Resp: 292058

Ion Ratio Lower Upper

95 100

174 94.3 0.0 155.6

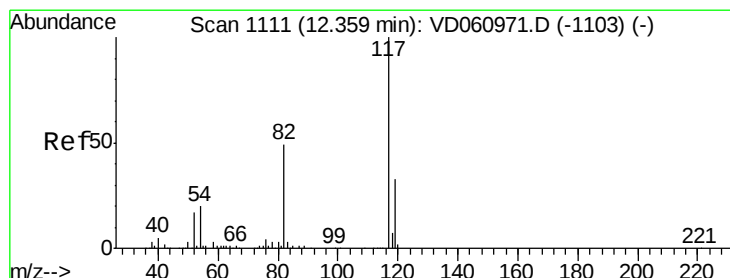
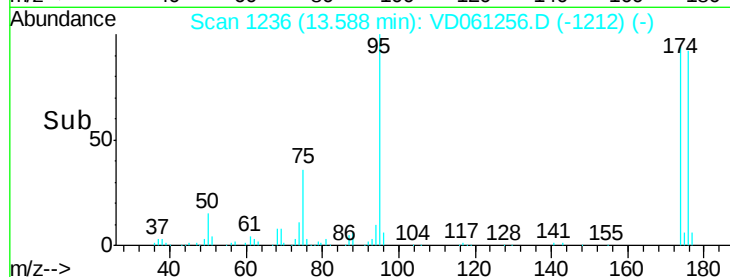
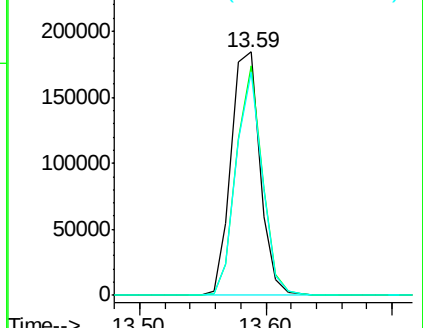
176 91.6 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): V

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: 12.41 min Scan# 1116

Delta R.T. 0.05 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

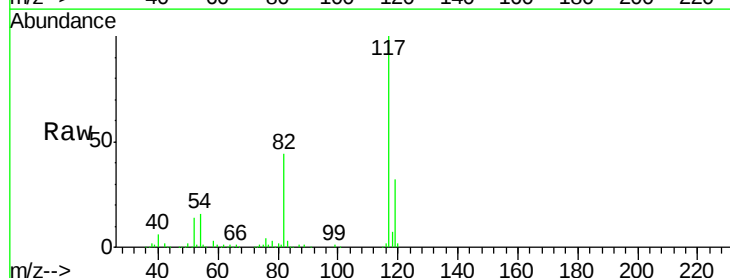
Tgt Ion: 117 Resp: 881930

Ion Ratio Lower Upper

117 100

82 43.7 38.9 58.3

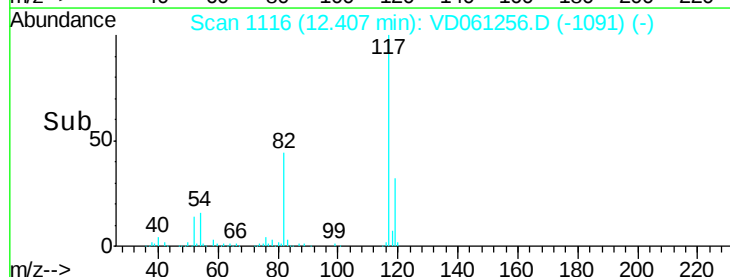
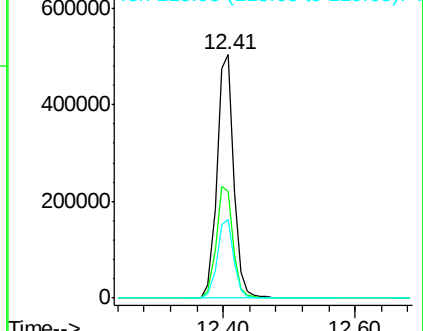
119 32.5 26.6 39.8

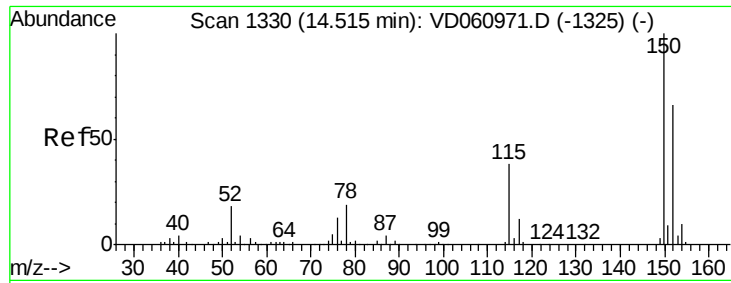


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

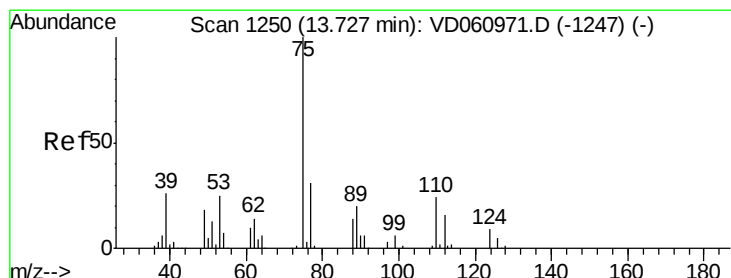
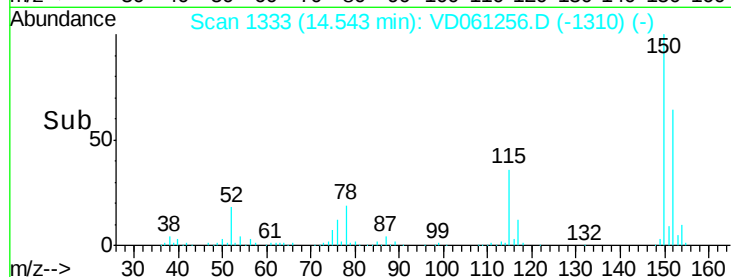
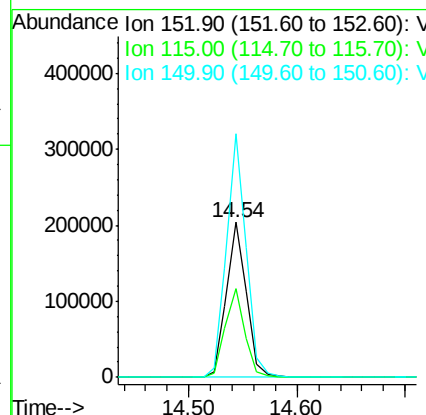
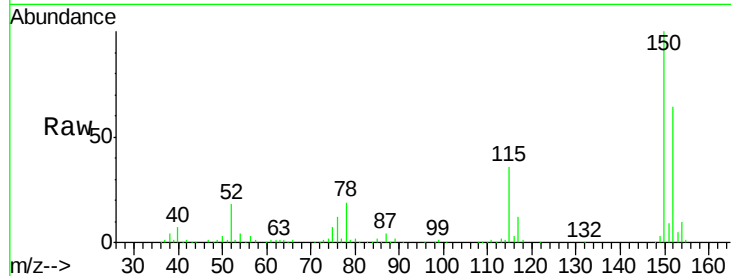




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.03 min
 Lab File: VD061256.D
 Acq: 22 Mar 2019 13:05

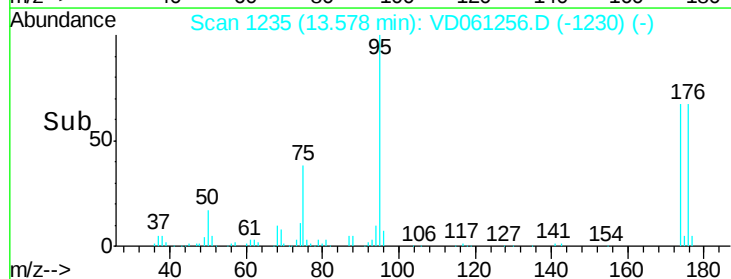
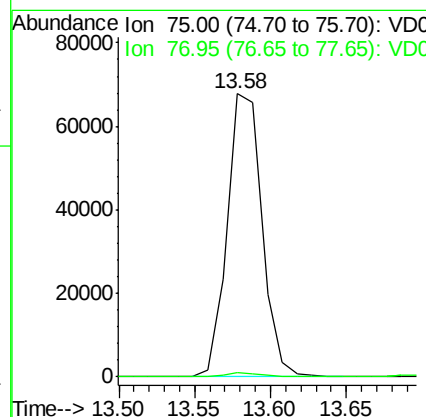
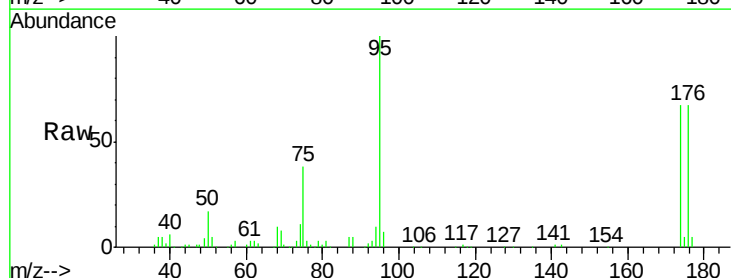
Instrument :
 MSVOA_D
 ClientSampleId :
 RCA-09

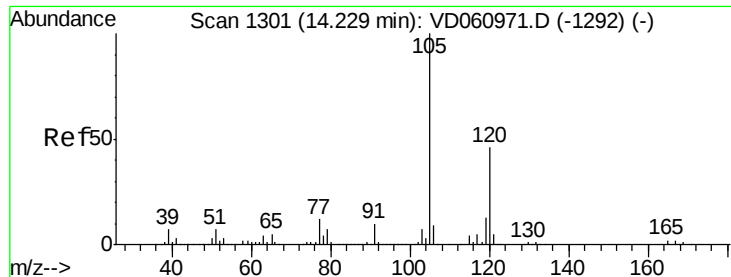
Tot Ion:152 Resp: 260770
 Ion Ratio Lower Upper
 152 100
 115 57.1 28.6 85.9
 150 157.2 0.0 310.6



#76
 1,2,3-Trichloropropane
 Concen: 28.789 ug/l
 RT: 13.58 min Scan# 1235
 Delta R.T. -0.15 min
 Lab File: VD061256.D
 Acq: 22 Mar 2019 13:05

Tgt Ion: 75 Resp: 108007
 Ion Ratio Lower Upper
 75 100
 77 1.6 16.6 49.7#

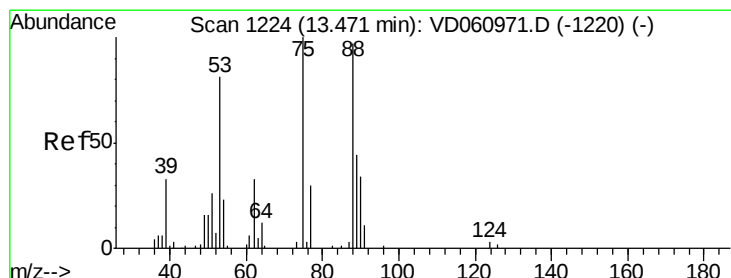
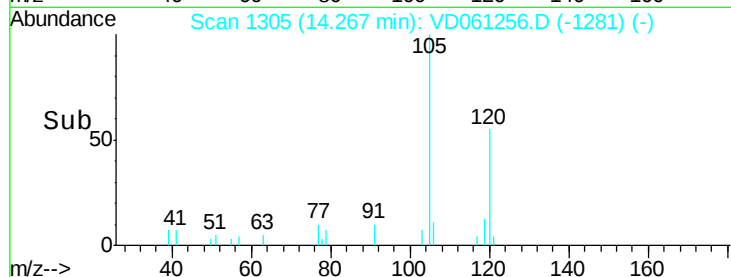
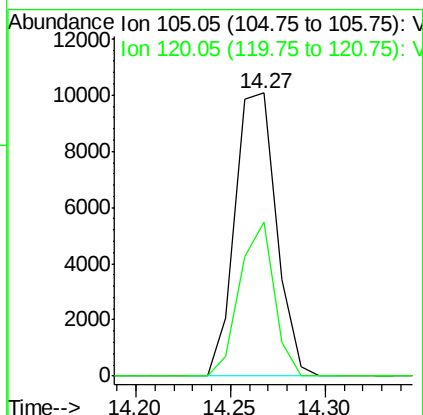
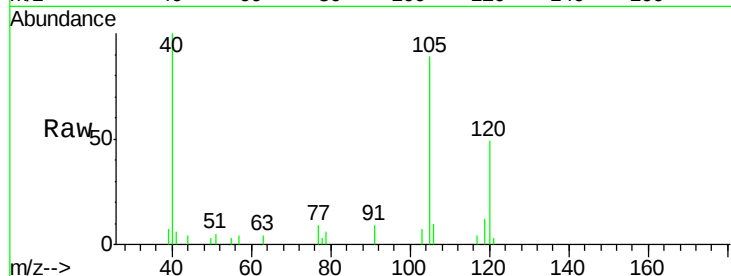




#80
 1,3,5-Trimethylbenzene
 Concen: 1.067 ug/l
 RT: 14.27 min Scan# 1305
 Delta R.T. 0.04 min
 Lab File: VD061256.D
 Acq: 22 Mar 2019 13:05

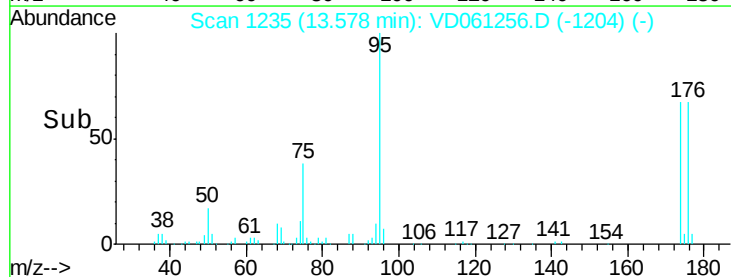
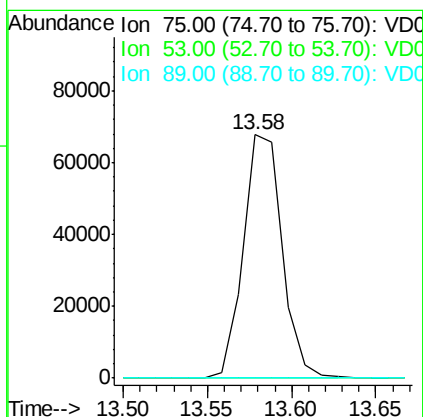
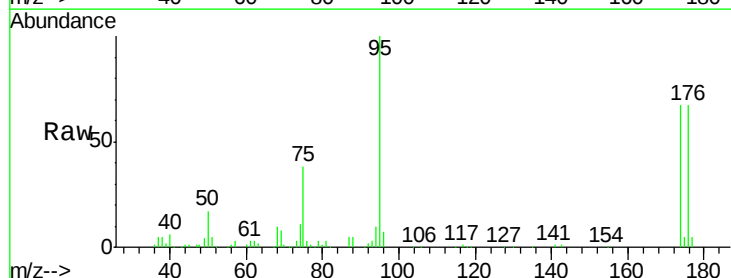
Instrument :
 MSVOA_D
 ClientSampleId :
 RCA-09

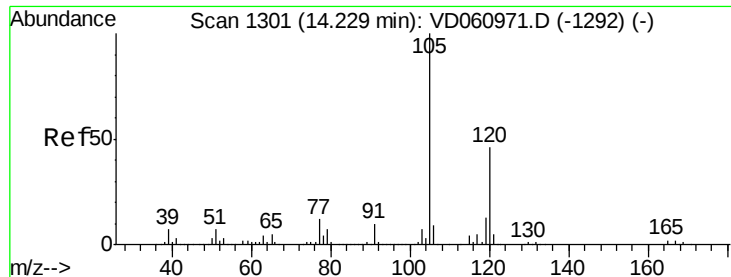
Tot Ion:105 Resp: 15226
 Ion Ratio Lower Upper
 105 100
 120 54.7 22.9 68.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 97.661 ug/l
 RT: 13.58 min Scan# 1235
 Delta R.T. 0.11 min
 Lab File: VD061256.D
 Acq: 22 Mar 2019 13:05

Tgt Ion: 75 Resp: 108019
 Ion Ratio Lower Upper
 75 100
 53 0.0 64.4 96.6#
 89 0.0 34.8 52.2#





#84

1,2,4-Trimethylbenzene

Concen: 1.067 ug/l

RT: 14.27 min Scan# 1305

Delta R.T. 0.04 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

Instrument :

MSVOA_D

ClientSampleId :

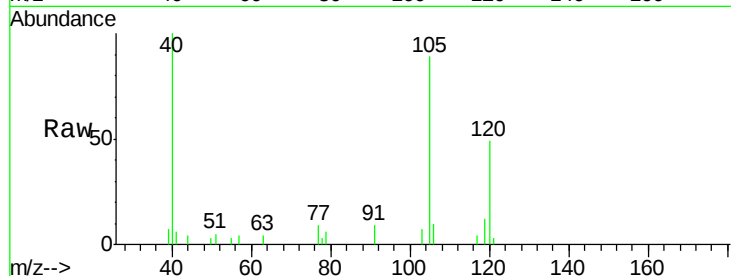
RCA-09

Tot Ion:105 Resp: 15226

Ion Ratio Lower Upper

105 100

120 54.7 22.9 68.5

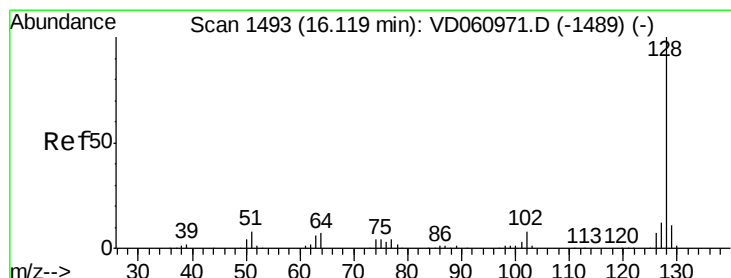
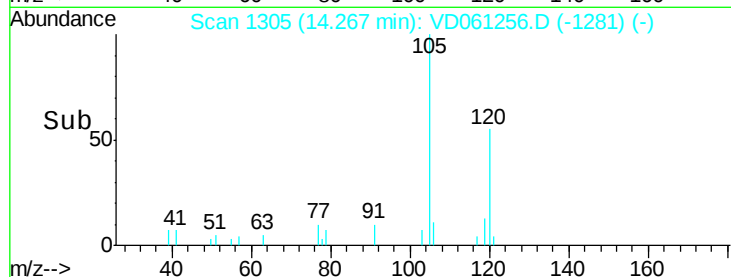


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

14.27

Time-->



#95

Naphthalene

Concen: 13.899 ug/l

RT: 16.15 min Scan# 1496

Delta R.T. 0.03 min

Lab File: VD061256.D

Acq: 22 Mar 2019 13:05

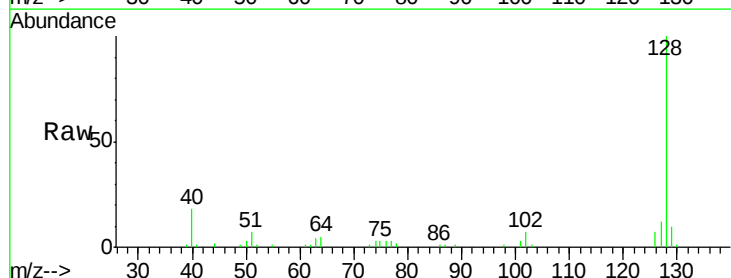
Tgt Ion:128 Resp: 69975

Ion Ratio Lower Upper

128 100

127 11.7 9.8 14.8

129 9.6 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

16.15

Time-->

