

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092118\
 Data File : VD060069.D
 Acq On : 21 Sep 2018 14:11
 Operator : VA/AP
 Sample : J5017-02RE
 Misc : 5.12g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-N-FL-056RE

Quant Time: Sep 22 00:49:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1108109	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	7.44	114	1594320	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.28	117	1182766	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.37	152	450956	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	383938	44.43	ug/l	0.01
Spiked Amount			Recovery	=	88.86%	
35) Dibromofluoromethane	6.31	113	530993	42.63	ug/l	0.01
Spiked Amount			Recovery	=	85.26%	
50) Toluene-d8	9.45	98	1289206	37.35	ug/l	0.01
Spiked Amount			Recovery	=	74.70%	
62) 4-Bromofluorobenzene	12.43	95	428633	32.50	ug/l	0.01
Spiked Amount			Recovery	=	65.00%	

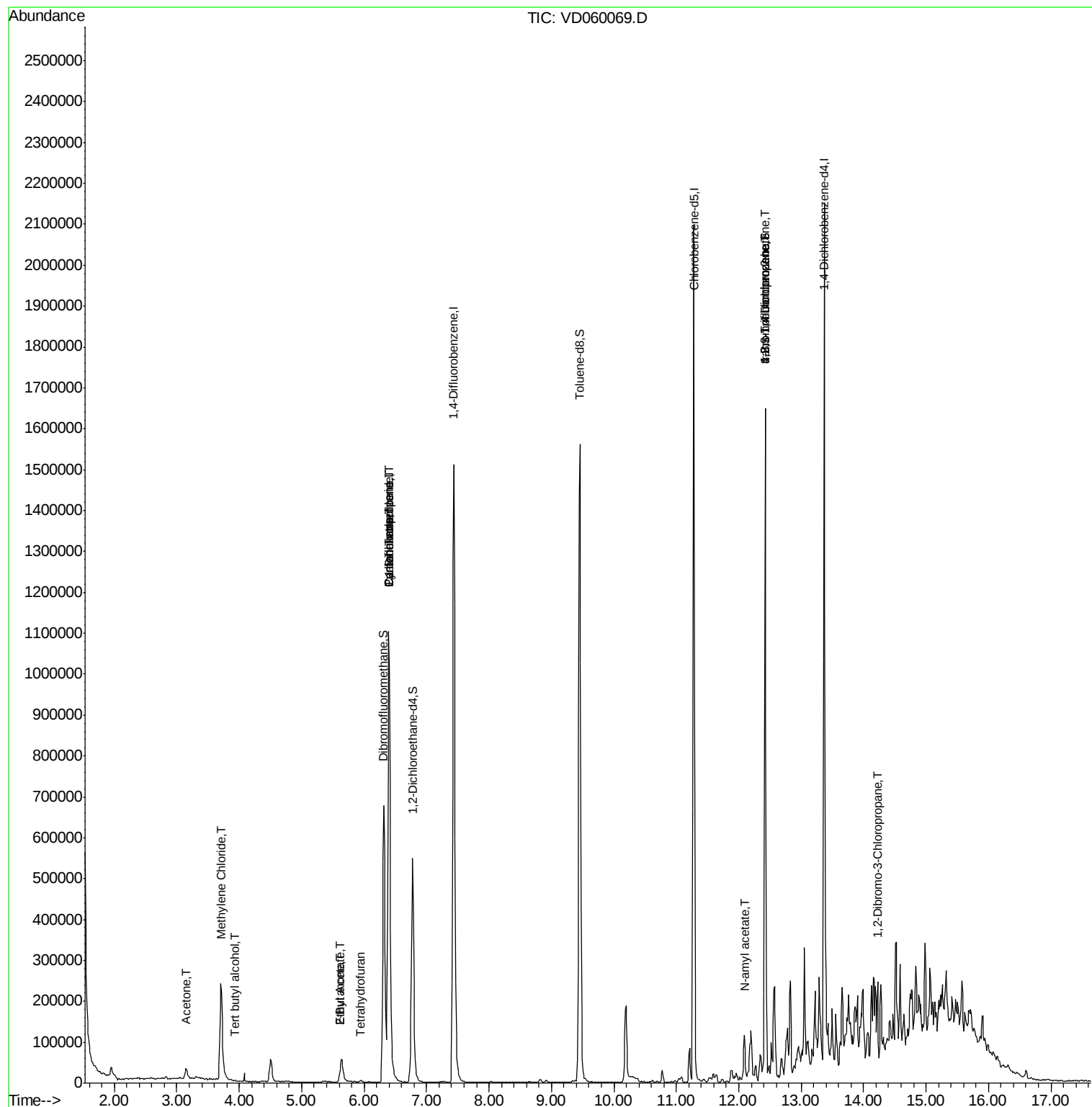
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.94	59	3222	4.621	ug/l #	74
16) Acetone	3.16	43	61515	36.871	ug/l	97
20) Methylene Chloride	3.71	84	156532	6.985	ug/l	97
25) 2-Butanone	5.61	43	30326	6.736	ug/l #	85
29) Tetrahydrofuran	5.94	42	2597	1.076	ug/l #	48
31) Cyclohexane	6.39	56	20581	1.072	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	80182	5.063	ug/l #	47
37) Ethyl Acetate	5.61	43	30326	2.785	ug/l #	72
38) Carbon Tetrachloride	6.39	117	85911	5.811	ug/l #	15
51) 4-Methyl-2-Pentanone	9.34	43	4921	Below Cal		90
59) 2-Hexanone	10.49	43	2109	Below Cal		84
74) N-amyl acetate	12.09	43	21377	1.825	ug/l #	62
76) 1,2,3-Trichloropropane	12.43	75	163676	23.765	ug/l #	45
81) trans-1,4-Dichloro-2-buten	12.43	75	171151	82.322	ug/l #	16
89) n-Butylbenzene	13.65	91	31959	Below Cal		95
91) 1,2-Dichlorobenzene	13.66	146	1205	Below Cal	#	27
92) 1,2-Dibromo-3-Chloropropan	14.22	75	1471	1.438	ug/l #	1

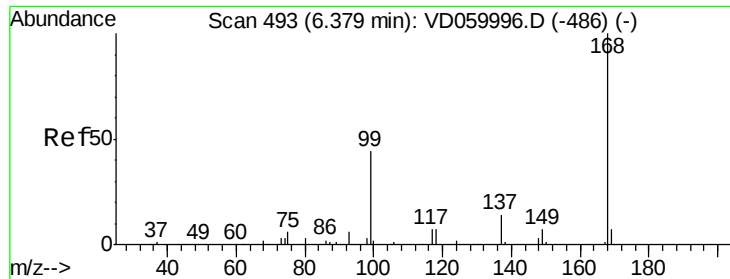
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

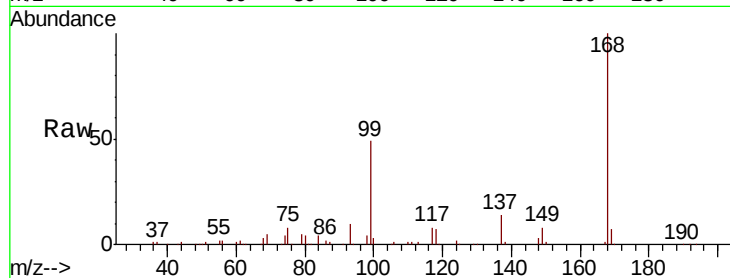
RA-091918-N-FL-056RE

Tot Ion:168 Resp: 1108109

Ion Ratio Lower Upper

168 100

99 49.3 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

400000

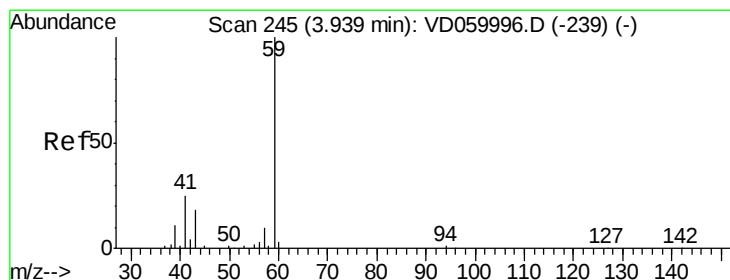
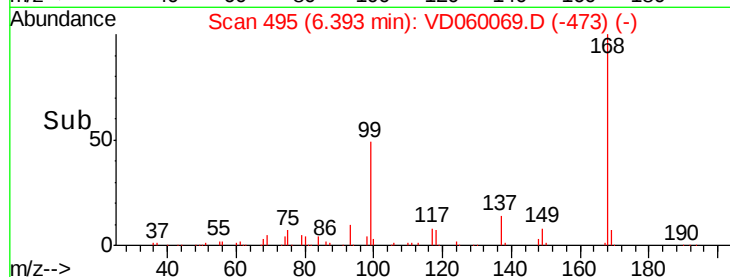
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.621 ug/l

RT: 3.94 min Scan# 246

Delta R.T. 0.00 min

Lab File: VD060069.D

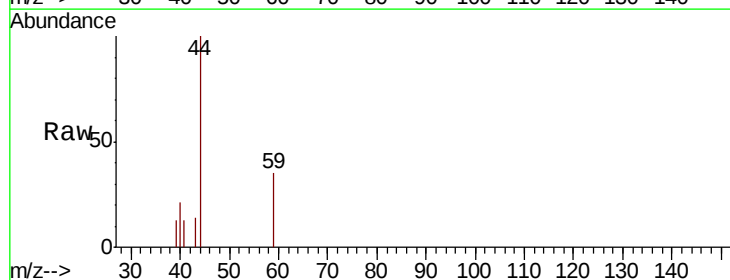
Acq: 21 Sep 2018 14:11

Tgt Ion: 59 Resp: 3222

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

1200

1000

800

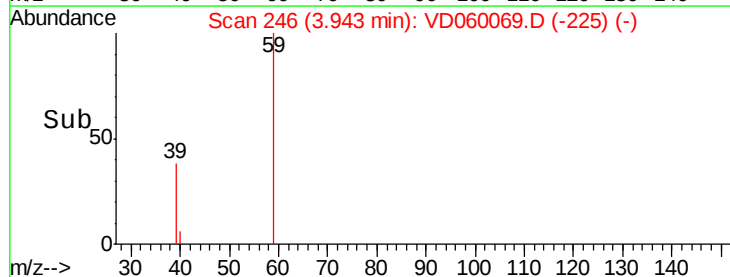
600

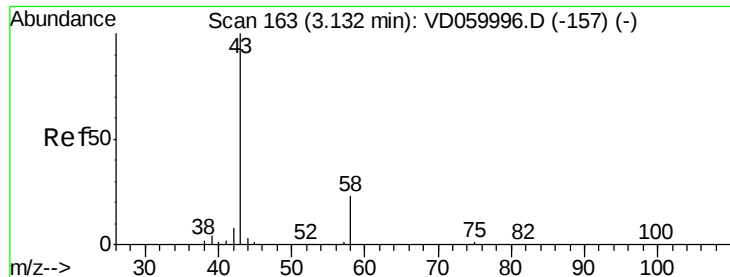
400

200

0

Time-->





#16

Acetone

Concen: 36.871 ug/l

RT: 3.16 min Scan# 166

Delta R.T. 0.02 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

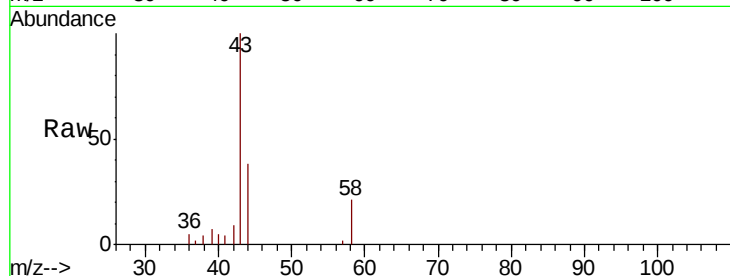
RA-091918-N-FL-056RE

Tot Ion: 43 Resp: 61515

Ion Ratio Lower Upper

43 100

58 21.4 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

20000

15000

10000

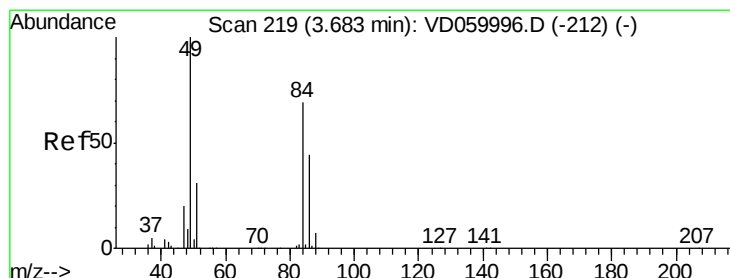
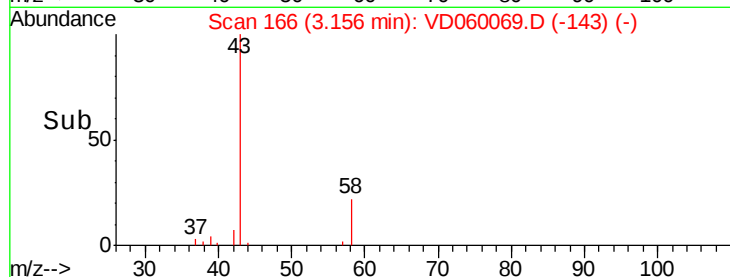
5000

0

Time-->

3.00 3.10 3.20 3.30

3.16



#20

Methylene Chloride

Concen: 6.985 ug/l

RT: 3.71 min Scan# 222

Delta R.T. 0.02 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

Tgt Ion: 84 Resp: 156532

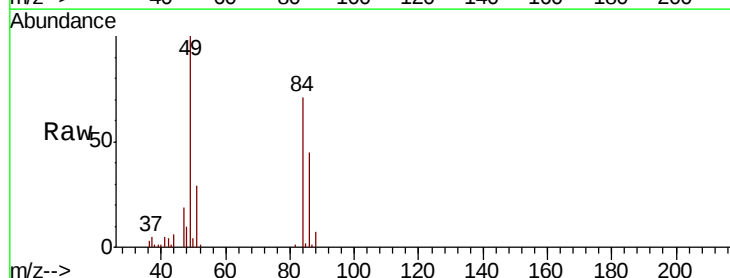
Ion Ratio Lower Upper

84 100

49 141.5 116.6 175.0

51 40.9 35.9 53.9

86 64.2 51.8 77.6



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

120000

100000

80000

60000

40000

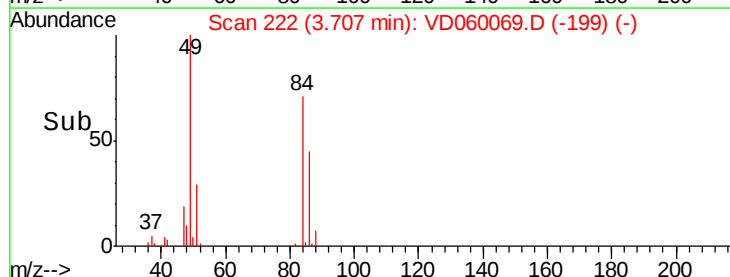
20000

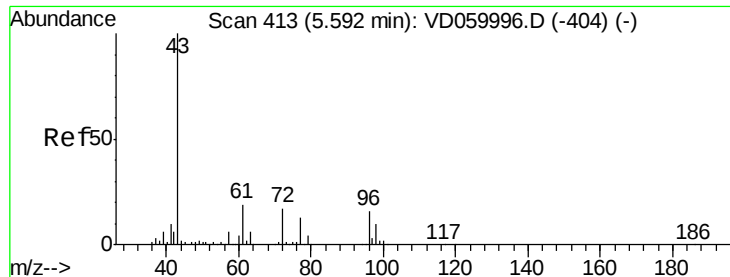
0

Time-->

3.60 3.70 3.80 3.90

3.71





#25

2-Butanone

Concen: 6.736 ug/l

RT: 5.61 min Scan# 415

Delta R.T. 0.02 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

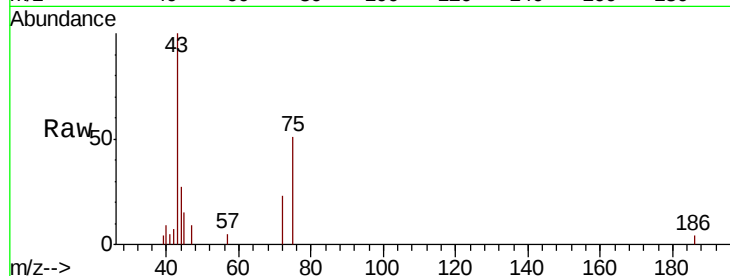
RA-091918-N-FL-056RE

Tot Ion: 43 Resp: 30326

Ion Ratio Lower Upper

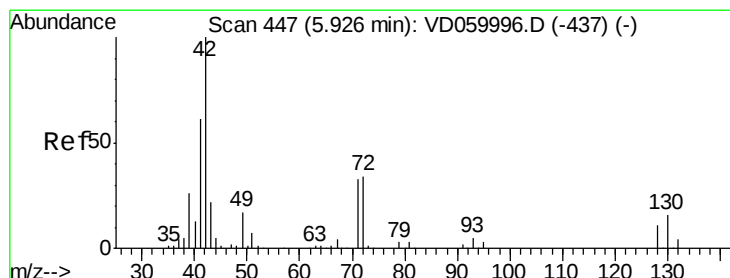
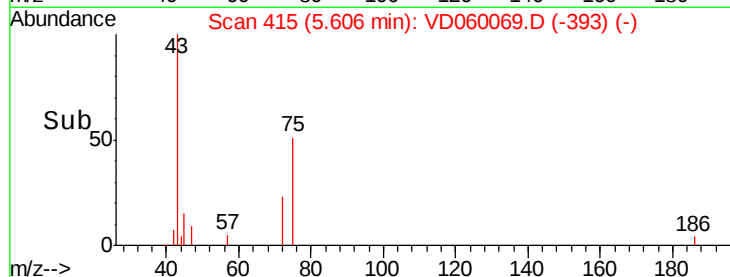
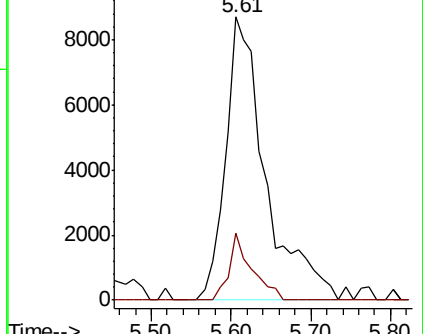
43 100

72 23.5 13.6 20.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.076 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.01 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

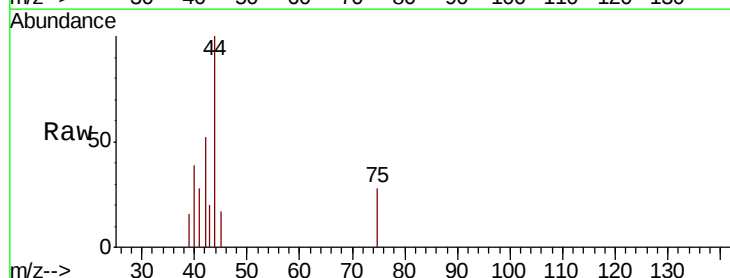
Tgt Ion: 42 Resp: 2597

Ion Ratio Lower Upper

42 100

72 7.5 26.9 40.3#

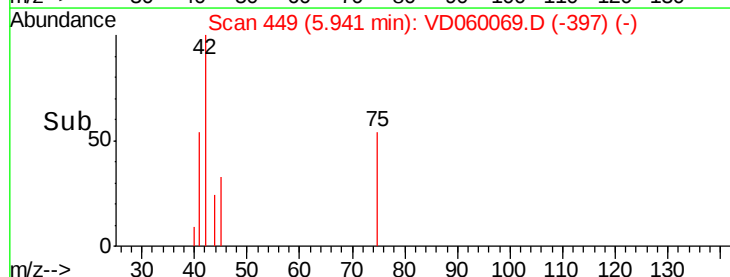
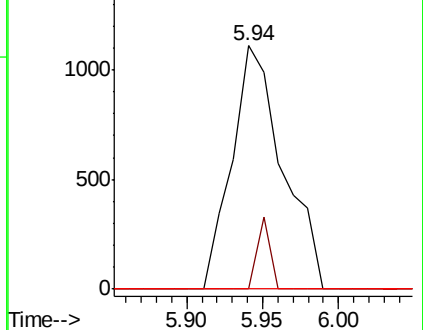
71 0.0 26.2 39.4#

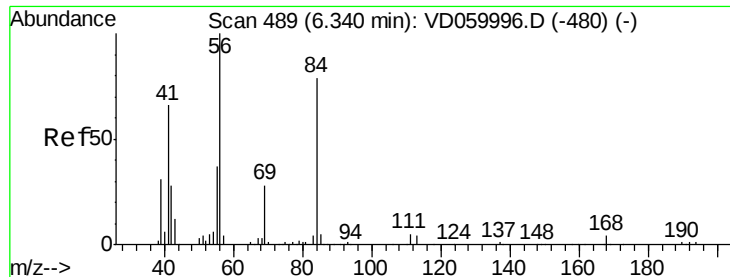


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

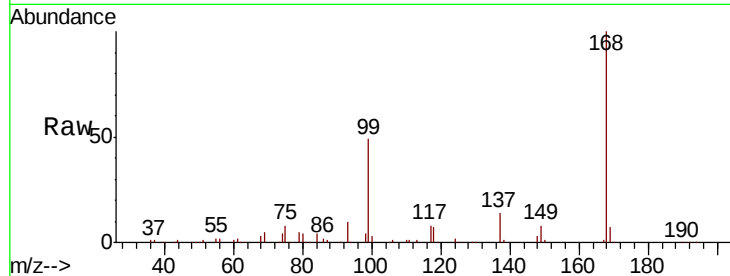




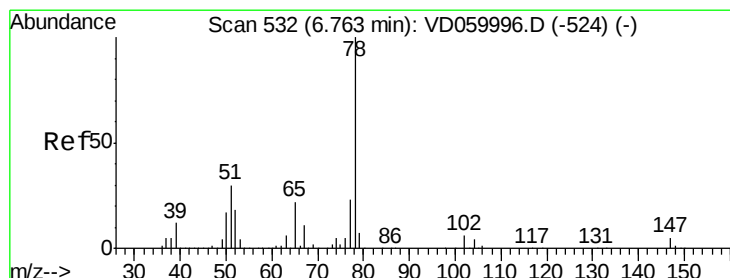
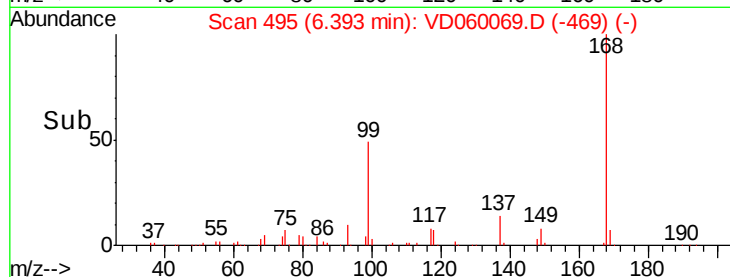
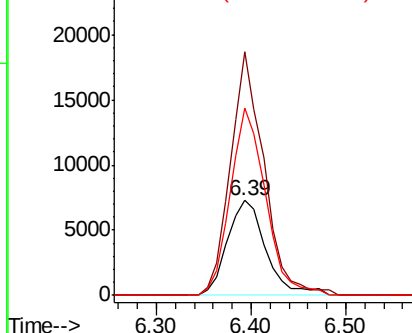
#31
Cyclohexane
Concen: 1.072 ug/l
RT: 6.39 min Scan# 495
Delta R.T. 0.05 min
Lab File: VD060069.D
Acq: 21 Sep 2018 14:11

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-N-FL-056RE

Tot Ion: 56 Resp: 20581
Ion Ratio Lower Upper
56 100
69 256.8 22.7 34.1#
84 197.6 64.0 96.0#

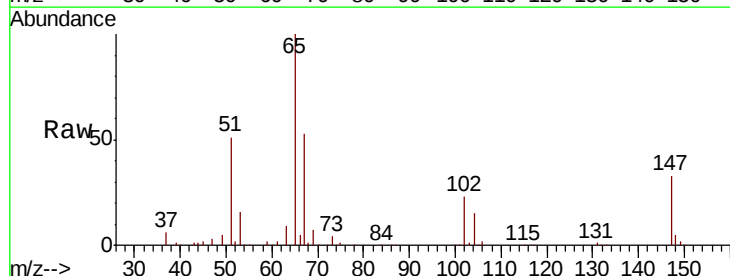


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

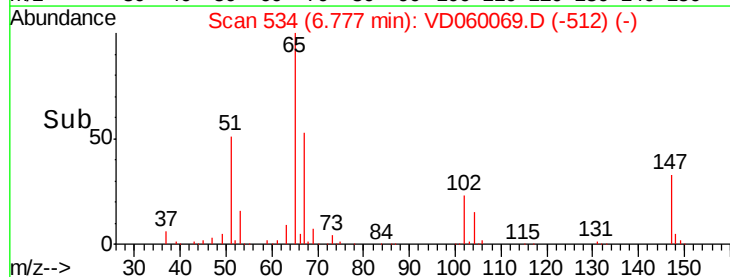
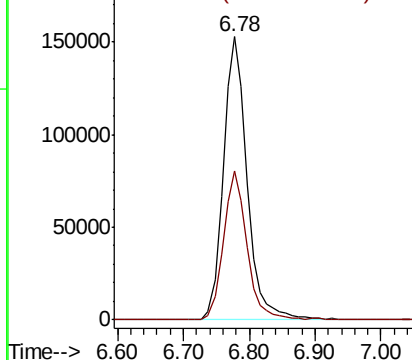


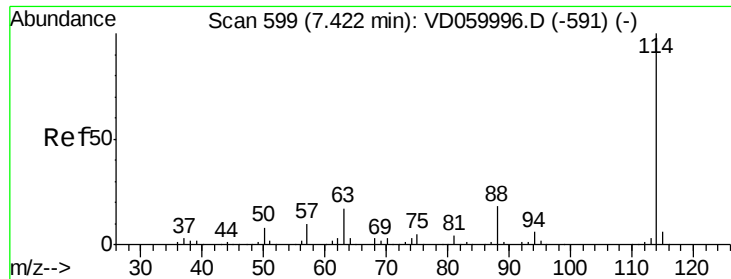
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.78 min Scan# 534
Delta R.T. 0.01 min
Lab File: VD060069.D
Acq: 21 Sep 2018 14:11

Tgt Ion: 65 Resp: 383938
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

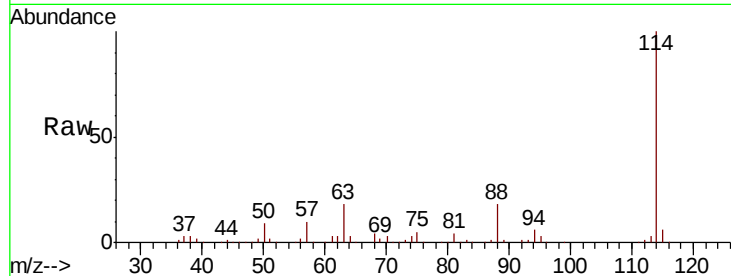




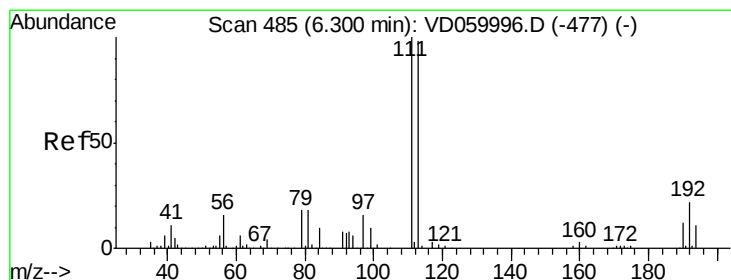
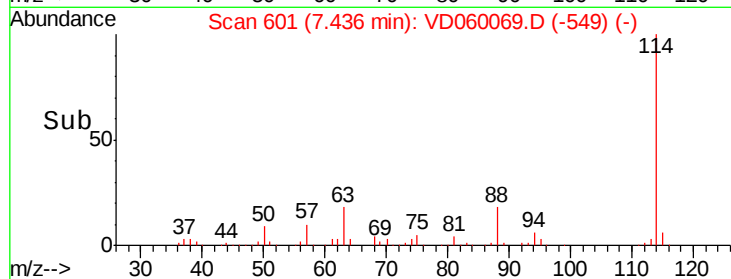
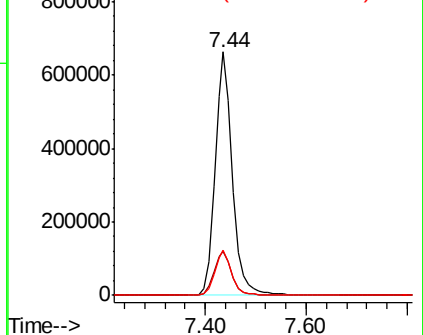
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. 0.01 min
 Lab File: VD060069.D
 Acq: 21 Sep 2018 14:11

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-N-FL-056RE

Tot Ion:114 Resp: 1594320
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 34.4
 88 18.4 0.0 35.8

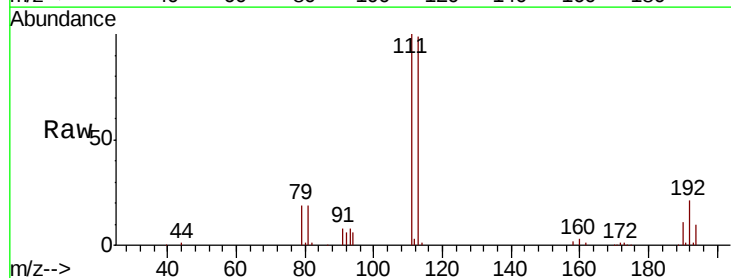


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

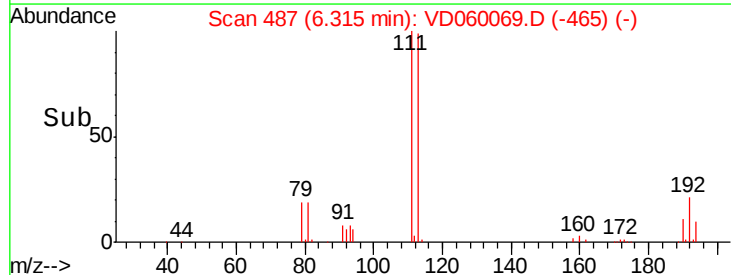
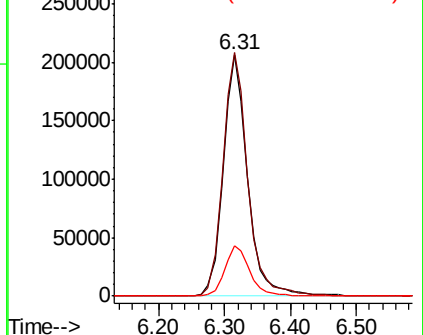


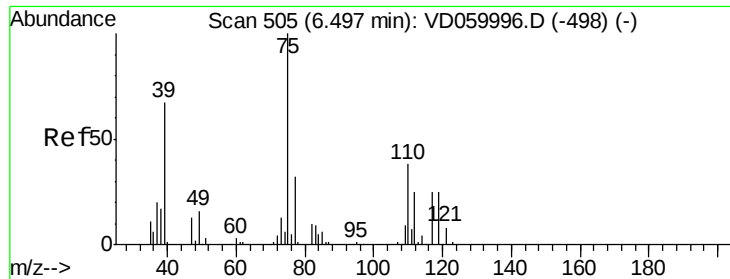
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 487
 Delta R.T. 0.01 min
 Lab File: VD060069.D
 Acq: 21 Sep 2018 14:11

Tgt Ion:113 Resp: 530993
 Ion Ratio Lower Upper
 113 100
 111 100.9 81.3 121.9
 192 20.9 18.1 27.1



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

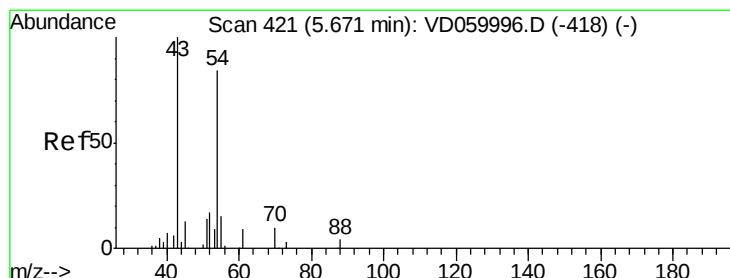
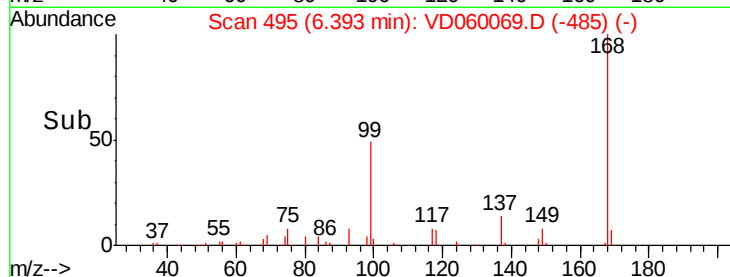
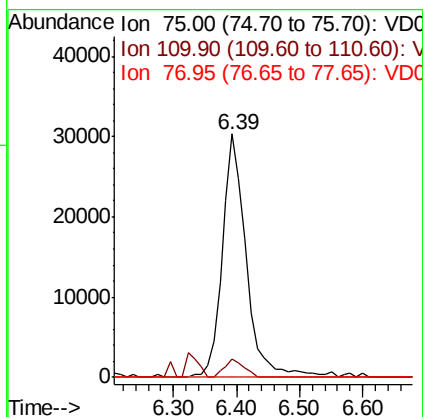
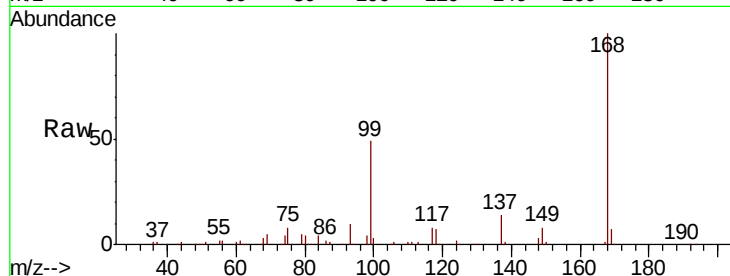




#36
 1,1-Dichloropropene
 Concen: 5.063 ug/l
 RT: 6.39 min Scan# 495
 Delta R.T. -0.10 min
 Lab File: VD060069.D
 Acq: 21 Sep 2018 14:11

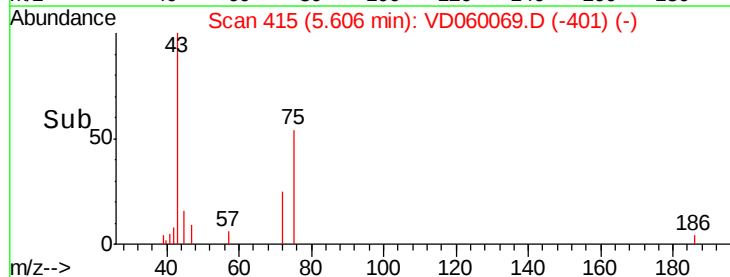
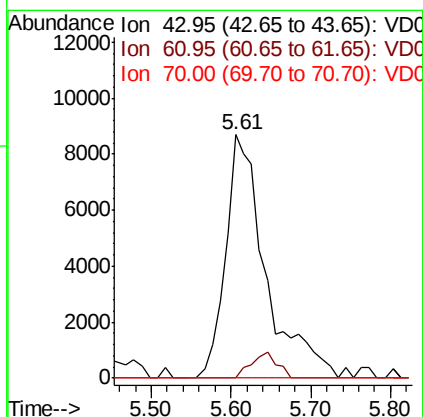
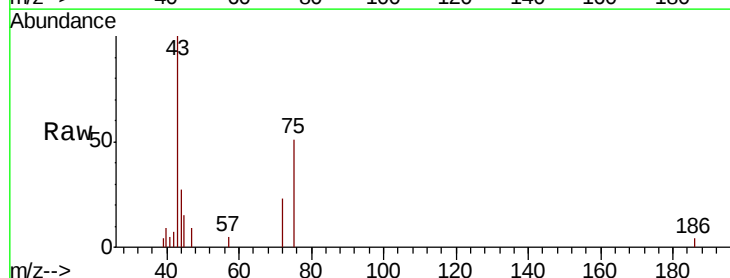
Instrument :
 MSVOA_D
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 RA-091918-N-FL-056RE

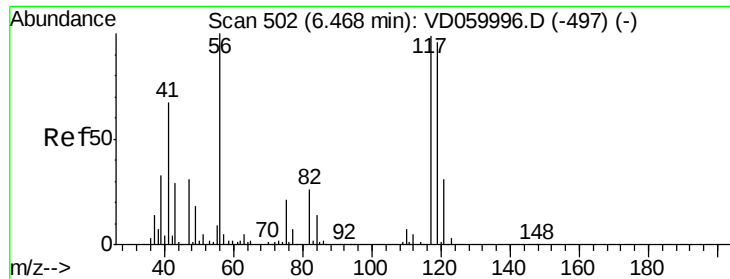
Tot Ion: 75 Resp: 80182
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.9 56.9#
 77 0.0 25.3 37.9#



#37
 Ethyl Acetate
 Concen: 2.785 ug/l
 RT: 5.61 min Scan# 415
 Delta R.T. -0.06 min
 Lab File: VD060069.D
 Acq: 21 Sep 2018 14:11

Tgt Ion: 43 Resp: 30326
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.2#
 70 0.0 6.1 9.1#





#38

Carbon Tetrachloride

Concen: 5.811 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.07 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-N-FL-056RE

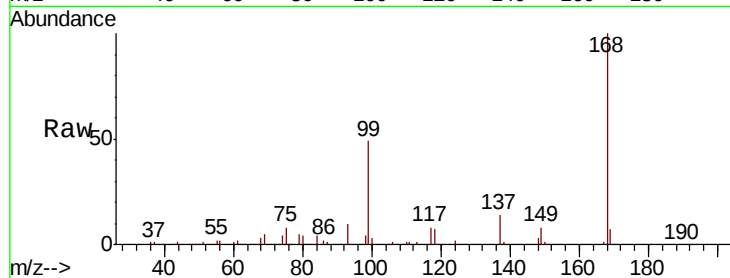
Tot Ion:117 Resp: 85911

Ion Ratio Lower Upper

117 100

119 4.1 76.7 115.1#

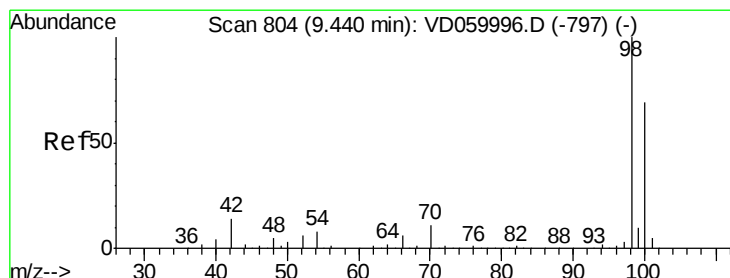
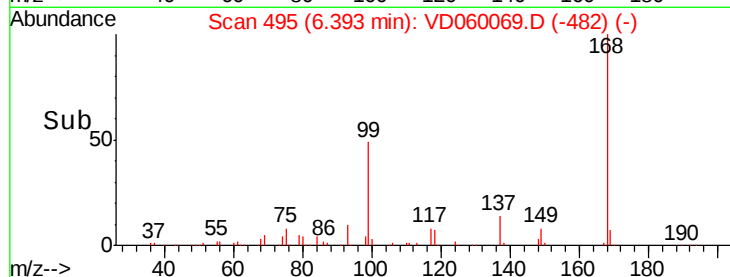
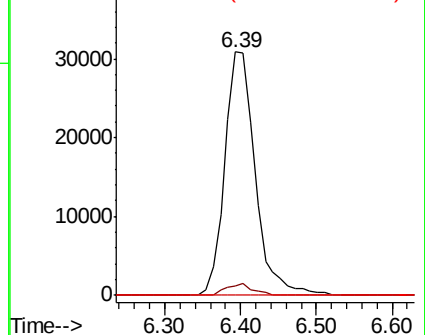
121 0.0 24.9 37.3#



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: 9.45 min Scan# 806

Delta R.T. 0.01 min

Lab File: VD060069.D

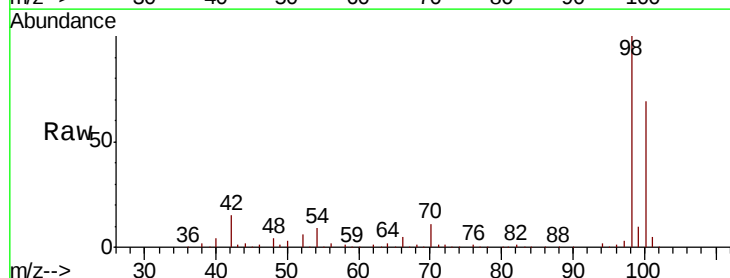
Acq: 21 Sep 2018 14:11

Tgt Ion: 98 Resp: 1289206

Ion Ratio Lower Upper

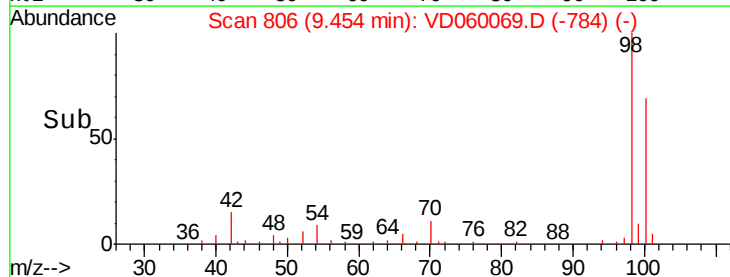
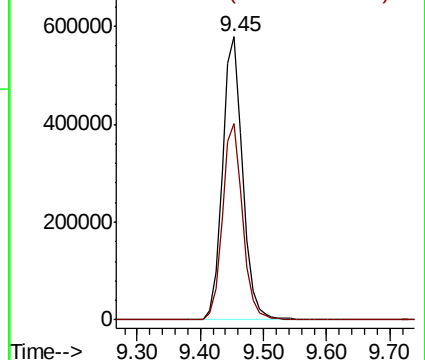
98 100

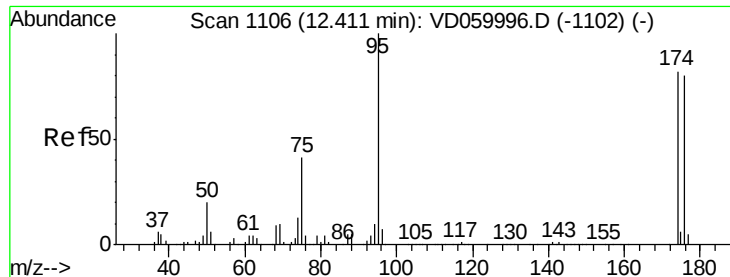
100 69.2 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-N-FL-056RE

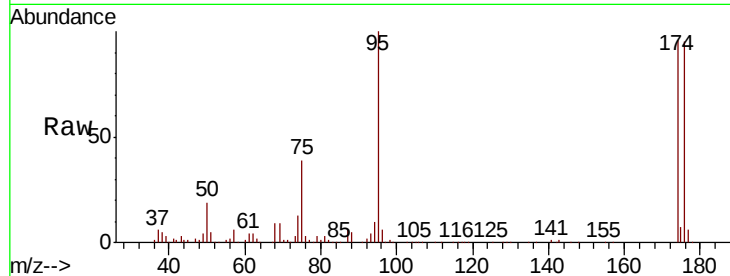
Tot Ion: 95 Resp: 428633

Ion Ratio Lower Upper

95 100

174 96.0 0.0 165.0

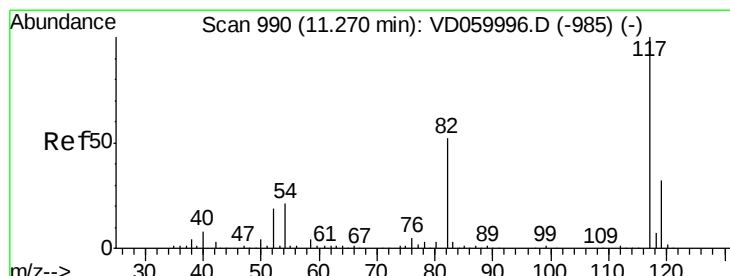
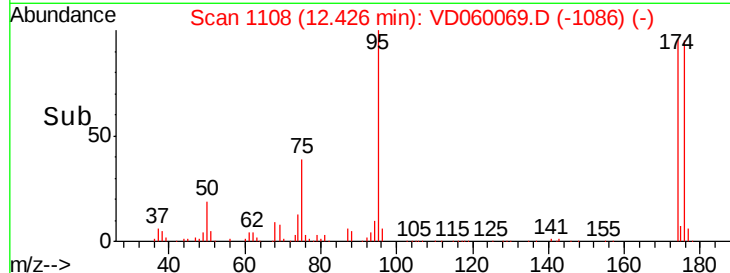
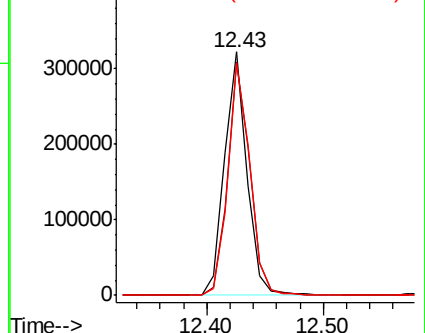
176 95.3 0.0 160.2



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: 11.28 min Scan# 992

Delta R.T. 0.01 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

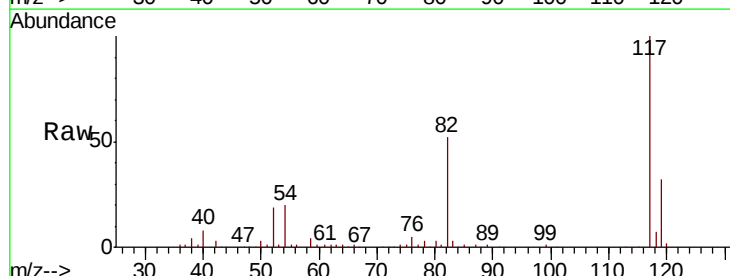
Tgt Ion: 117 Resp: 1182766

Ion Ratio Lower Upper

117 100

82 52.3 41.7 62.5

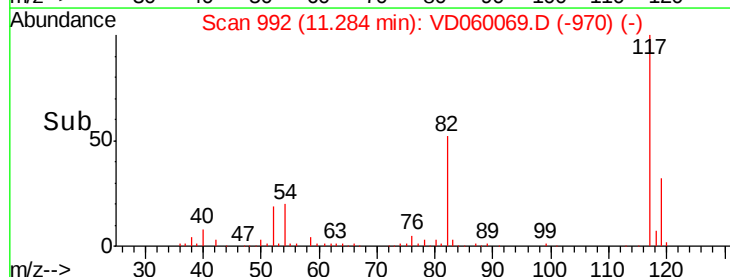
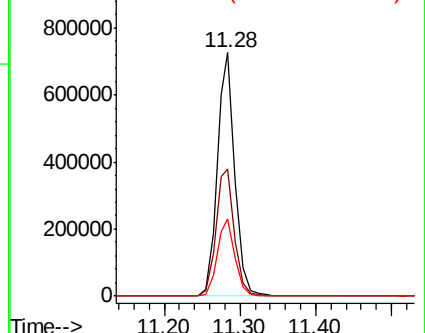
119 31.9 26.0 39.0

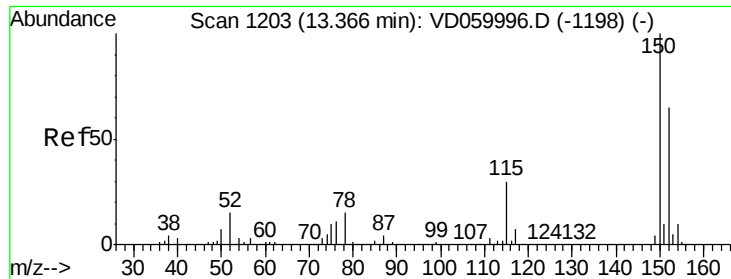


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



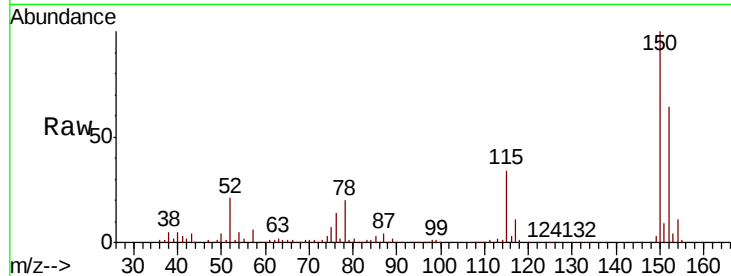


#72

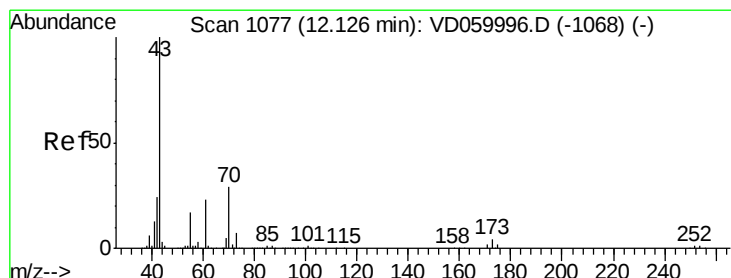
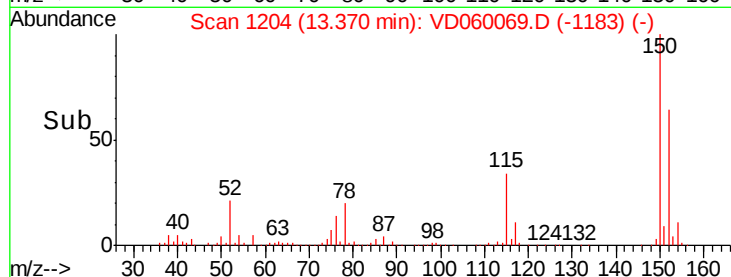
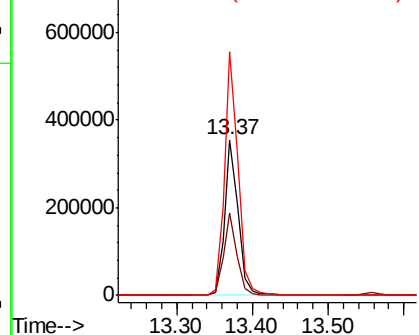
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. 0.00 min
Lab File: VD060069.D
Acq: 21 Sep 2018 14:11

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-N-FL-056RE

Tot Ion:152 Resp: 450956
Ion Ratio Lower Upper
152 100
115 53.3 24.6 73.8
150 156.3 0.0 313.4



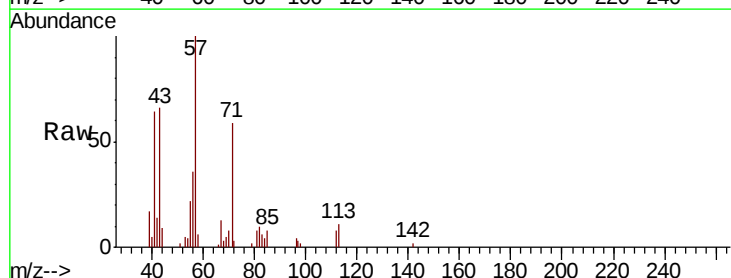
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



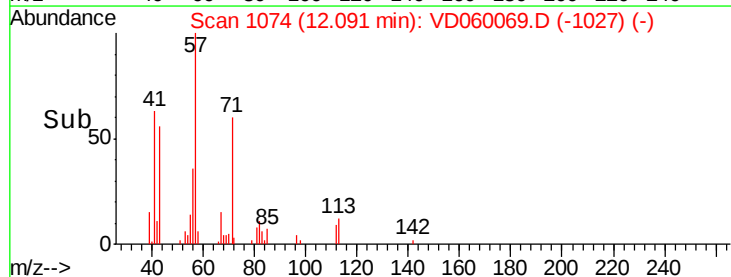
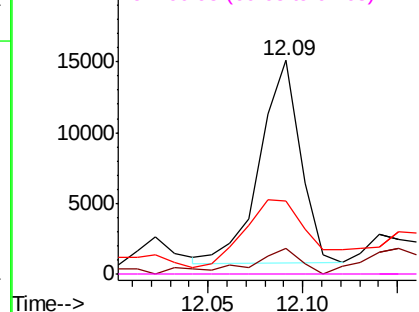
#74

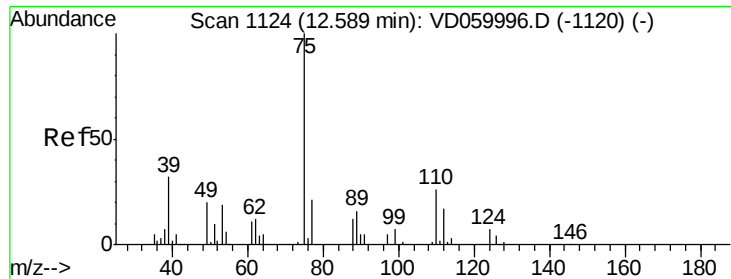
N-ethyl acetate
Concen: 1.825 ug/l
RT: 12.09 min Scan# 1074
Delta R.T. -0.03 min
Lab File: VD060069.D
Acq: 21 Sep 2018 14:11

Tgt Ion: 43 Resp: 21377
Ion Ratio Lower Upper
43 100
70 11.9 22.9 34.3#
55 33.9 14.0 21.0#
61 0.0 18.7 28.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC





#76

1,2,3-Trichloropropane

Concen: 23.765 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

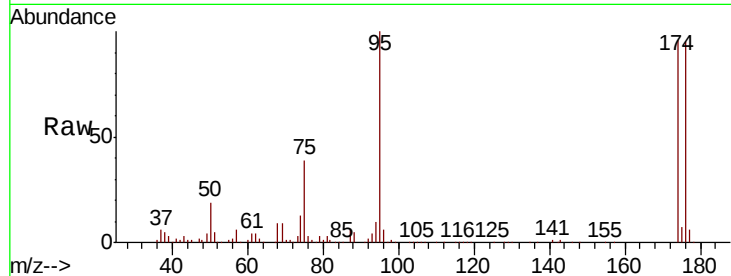
RA-091918-N-FL-056RE

Tot Ion: 75 Resp: 163676

Ion Ratio Lower Upper

75 100

77 1.7 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

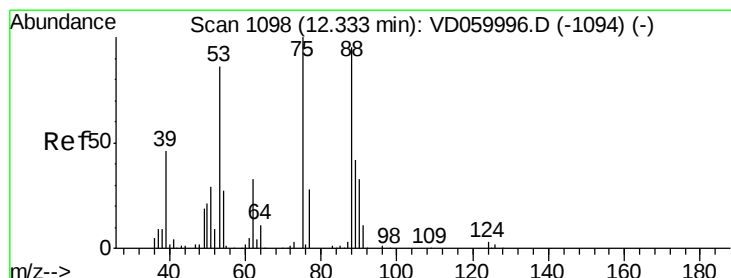
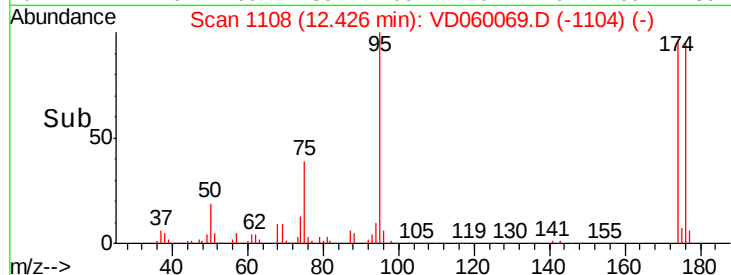
12.43

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 82.322 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.09 min

Lab File: VD060069.D

Acq: 21 Sep 2018 14:11

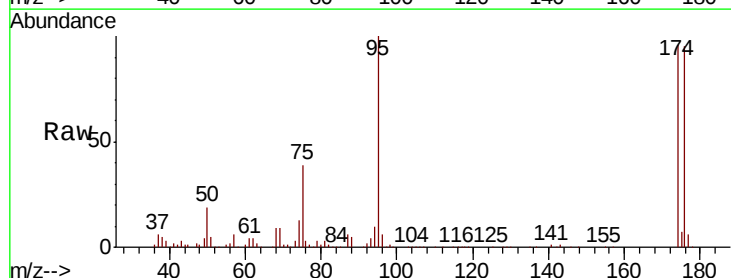
Tgt Ion: 75 Resp: 171151

Ion Ratio Lower Upper

75 100

53 0.5 68.4 102.6#

89 0.0 33.8 50.6#



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

12.43

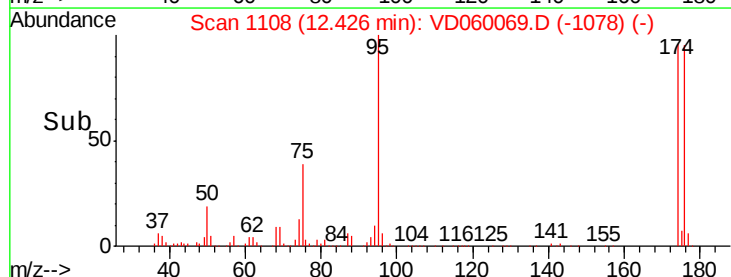
150000

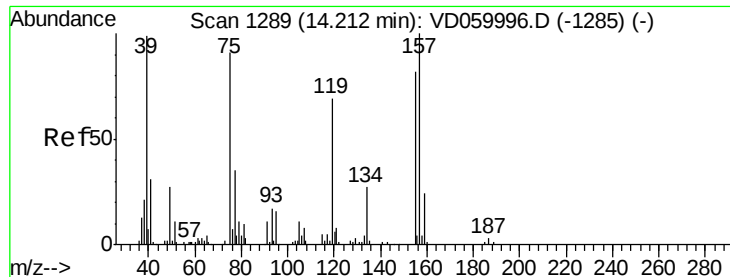
100000

50000

0

Time-->





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.438 ug/l
 RT: 14.22 min Scan# 1290
 Delta R.T. 0.00 min
 Lab File: VD060069.D
 Acq: 21 Sep 2018 14:11

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-N-FL-056RE

Tot Ion: 75 Resp: 1471
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.7 134.1#
 157 0.0 54.7 164.1#

