

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD091718\
 Data File : VD060030.D
 Acq On : 17 Sep 2018 19:23
 Operator : JC/SY
 Sample : J4942-01RE
 Misc : 5.04g/5ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RB32727RTRE

Quant Time: Sep 18 04:41:14 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	6.40	168	1183860	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.43	114	1722839	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.28	117	1351086	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.38	152	659824	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	456628	49.46	ug/l	0.01
Spiked Amount			Recovery	=	98.92%	
35) Dibromofluoromethane	6.31	113	572046	42.50	ug/l	0.01
Spiked Amount			Recovery	=	85.00%	
50) Toluene-d8	9.45	98	1474232	39.52	ug/l	0.01
Spiked Amount			Recovery	=	79.04%	
62) 4-Bromofluorobenzene	12.42	95	553402	38.83	ug/l	0.01
Spiked Amount			Recovery	=	77.66%	

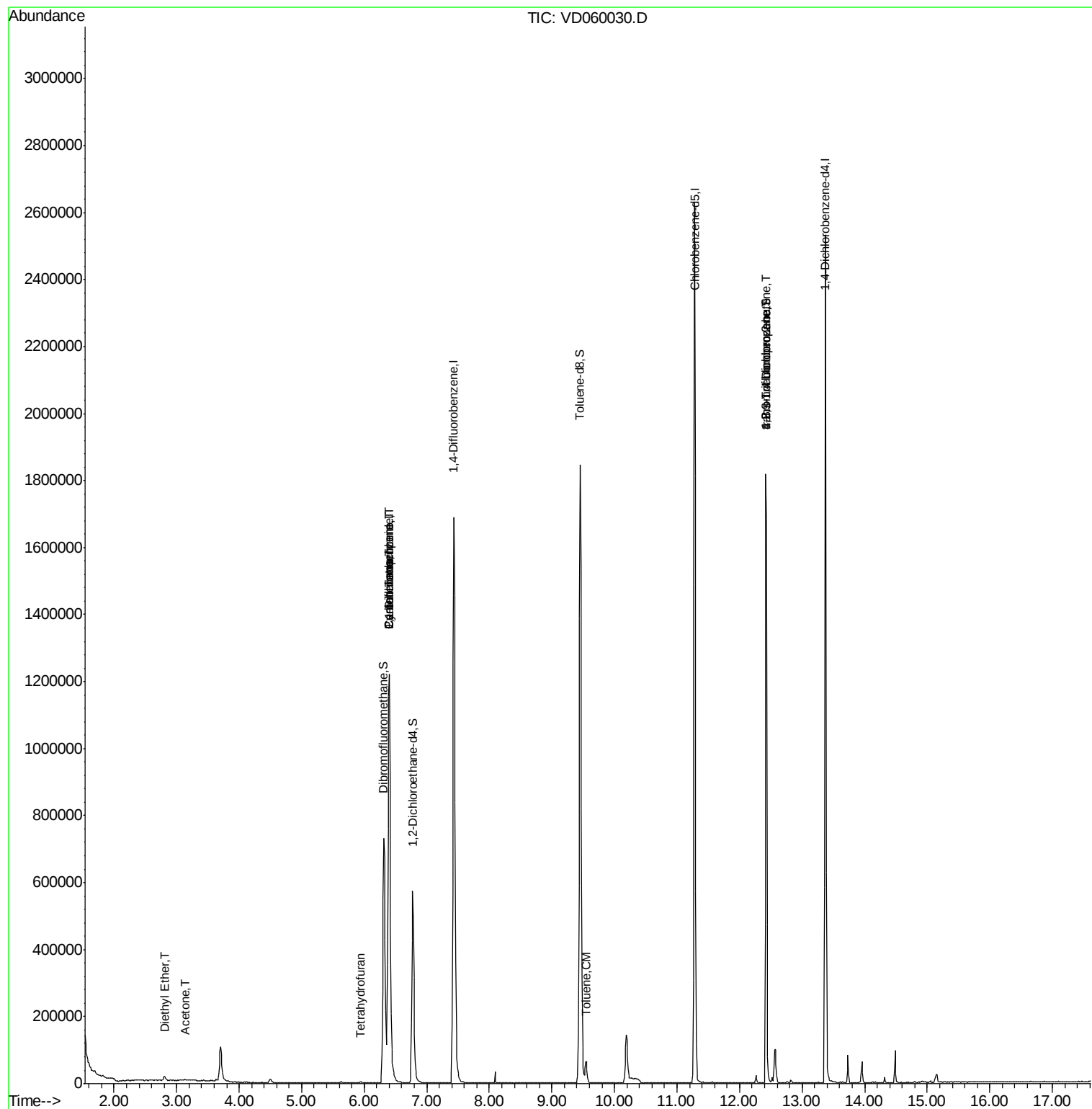
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.82	74	4649	2.239	ug/l	88
16) Acetone	3.14	43	4657	2.613	ug/l #	90
20) Methylene Chloride	3.70	84	61965	Below Cal		99
29) Tetrahydrofuran	5.94	42	3558	1.379	ug/l #	67
31) Cyclohexane	6.40	56	21646	1.056	ug/l #	1
36) 1,1-Dichloropropene	6.40	75	87886	5.135	ug/l #	47
38) Carbon Tetrachloride	6.40	117	91970	5.757	ug/l #	16
51) 4-Methyl-2-Pentanone	9.45	43	8792	Below Cal	#	1
52) Toluene	9.55	92	32077	1.147	ug/l	98
59) 2-Hexanone	10.48	43	631	Below Cal	#	30
76) 1,2,3-Trichloropropane	12.42	75	192283	19.081	ug/l #	45
81) trans-1,4-Dichloro-2-buten	12.42	75	227264	74.709	ug/l #	15
89) n-Butylbenzene	13.65	91	630	Below Cal	#	29
91) 1,2-Dichlorobenzene	13.66	146	271	Below Cal	#	25

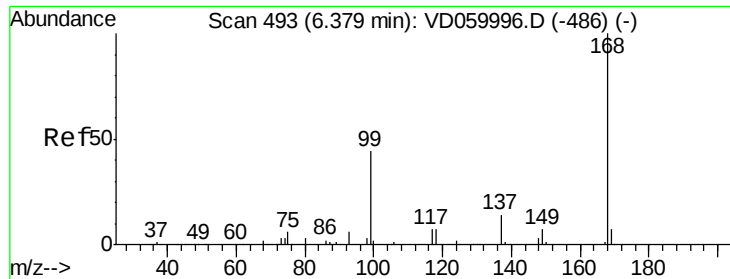
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 495

Delta R.T. 0.02 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

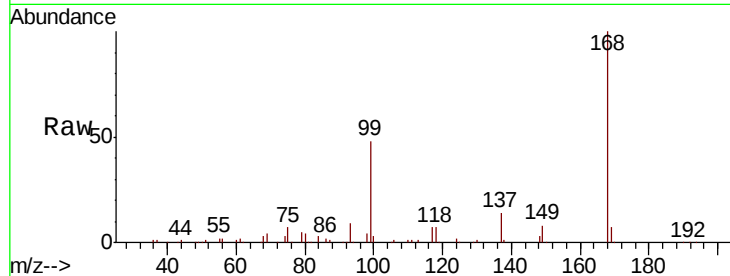
Instrument :
MSVOA_D
ClientSampleId :
RB32727RTRE

Tgt Ion:168 Resp: 1183860

Ion Ratio Lower Upper

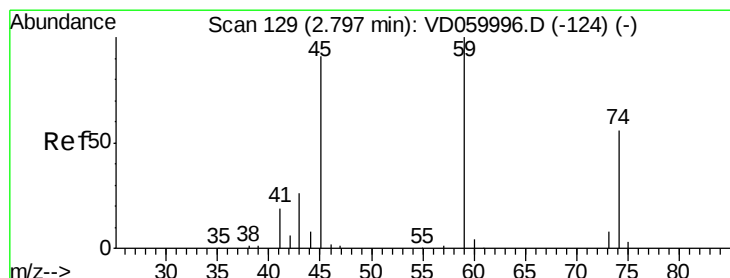
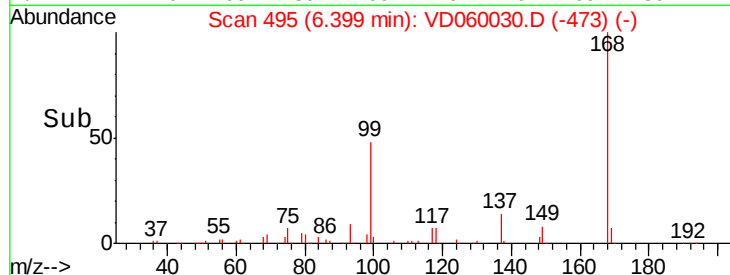
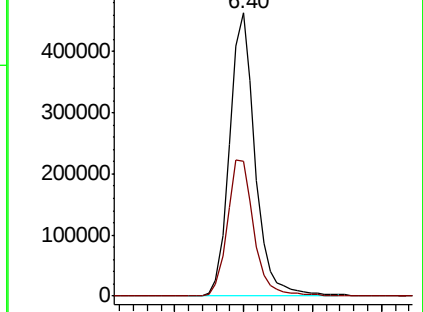
168 100

99 47.6 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 2.239 ug/l

RT: 2.82 min Scan# 131

Delta R.T. 0.02 min

Lab File: VD060030.D

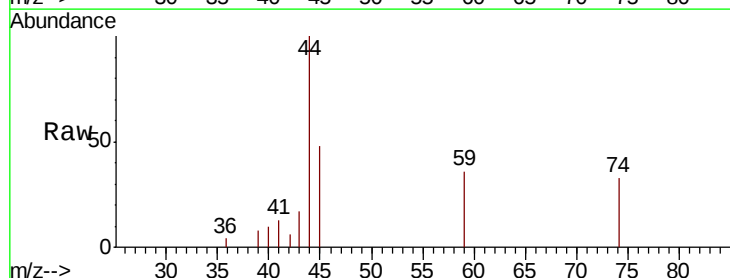
Acq: 17 Sep 2018 19:23

Tgt Ion: 74 Resp: 4649

Ion Ratio Lower Upper

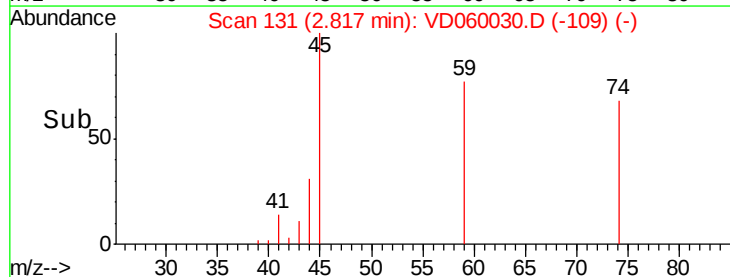
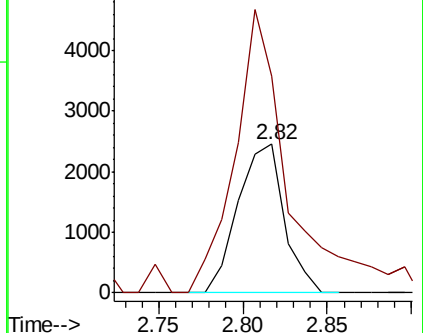
74 100

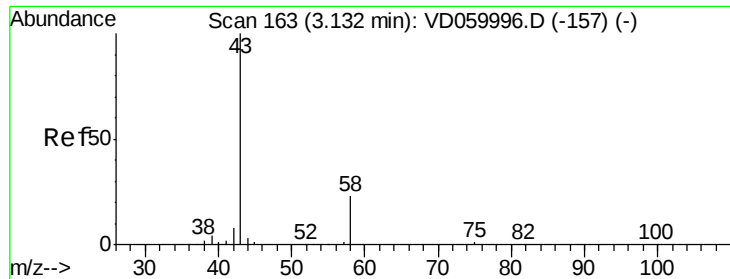
45 146.0 81.2 243.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 2.613 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

Instrument :

MSVOA_D

ClientSampleId :

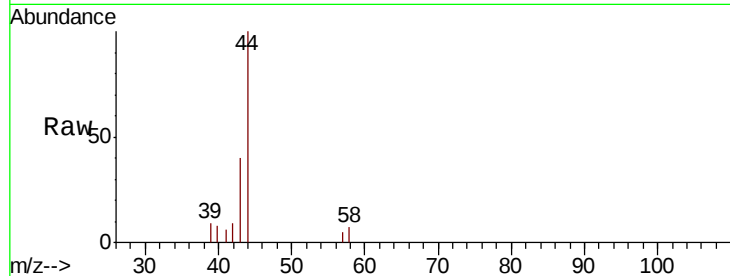
RB32727RTRE

Tgt Ion: 43 Resp: 4657

Ion Ratio Lower Upper

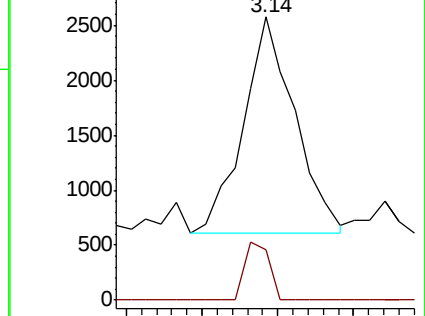
43 100

58 17.6 18.1 27.1#

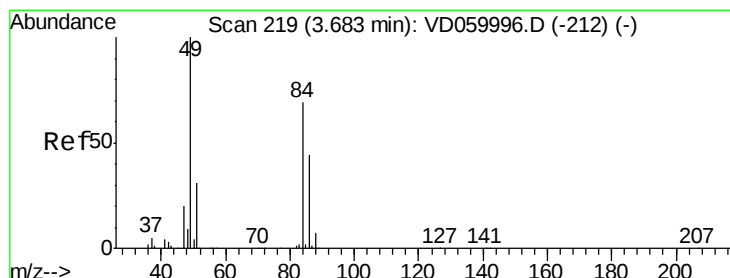
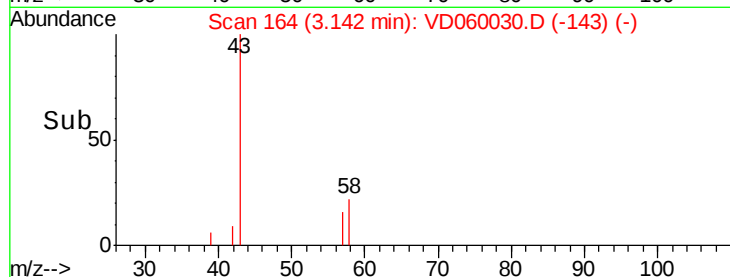


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 3.70 min Scan# 221

Delta R.T. 0.02 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

Tgt Ion: 84 Resp: 61965

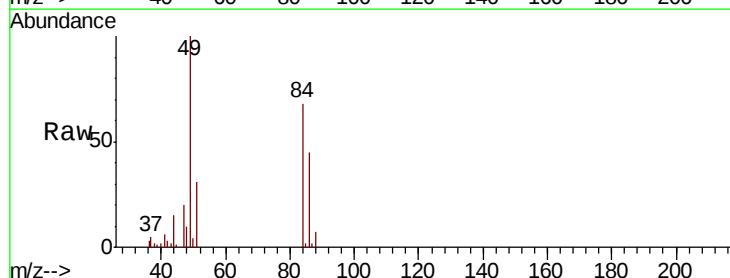
Ion Ratio Lower Upper

84 100

49 146.9 116.6 175.0

51 46.2 35.9 53.9

86 66.7 51.8 77.6

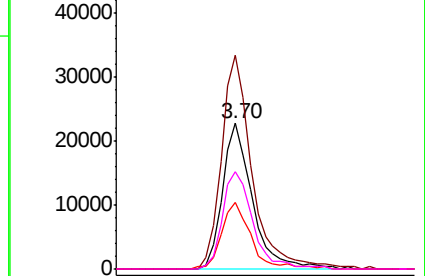


Abundance Ion 83.95 (83.65 to 84.65): VDC

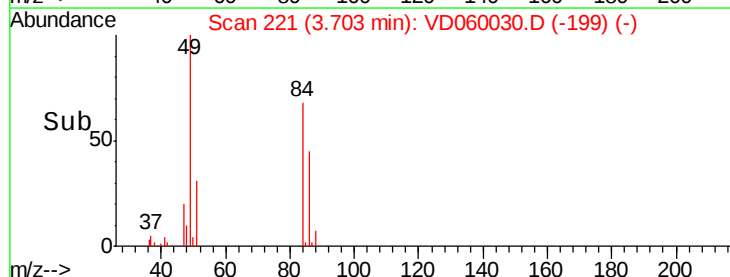
Ion 48.90 (48.60 to 49.60): VDC

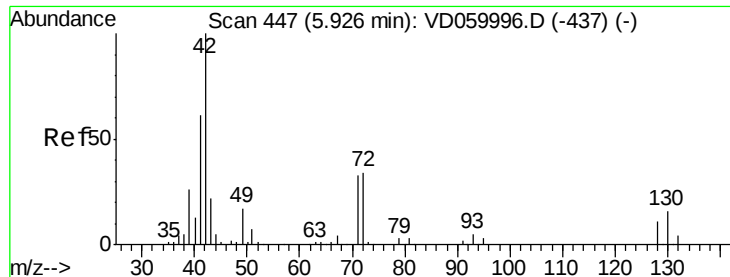
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



Time-->





#29

Tetrahydrofuran

Concen: 1.379 ug/l

RT: 5.94 min Scan# 448

Delta R.T. 0.01 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

Instrument :

MSVOA_D

ClientSampleId :

RB32727RTRE

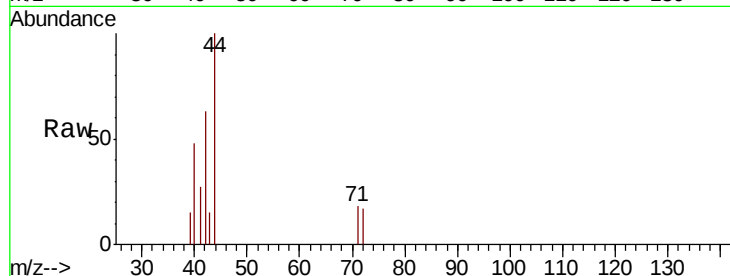
Tgt Ion: 42 Resp: 3558

Ion Ratio Lower Upper

42 100

72 10.9 26.9 40.3#

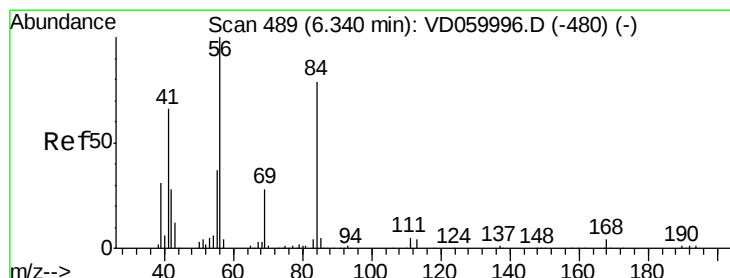
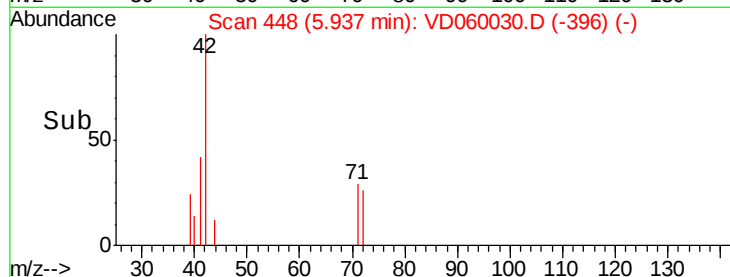
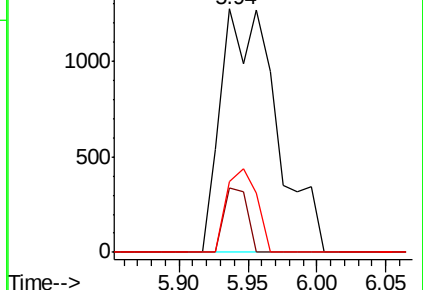
71 18.5 26.2 39.4#



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: 1.056 ug/l

RT: 6.40 min Scan# 495

Delta R.T. 0.06 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

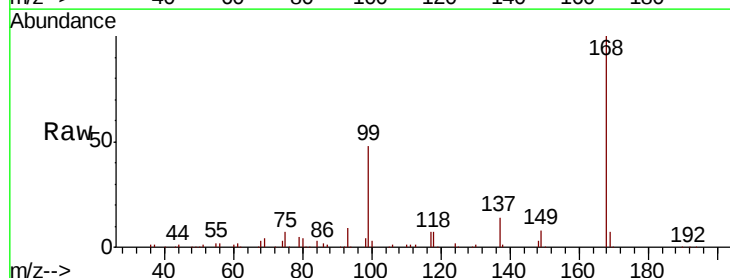
Tgt Ion: 56 Resp: 21646

Ion Ratio Lower Upper

56 100

69 241.1 22.7 34.1#

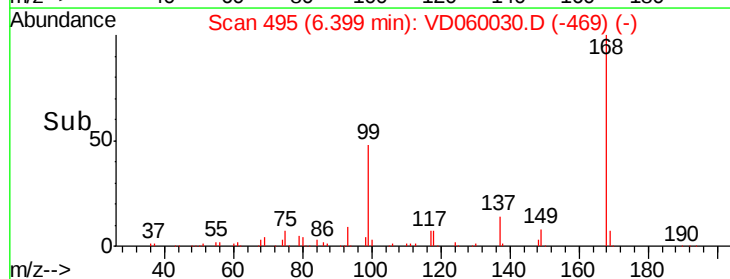
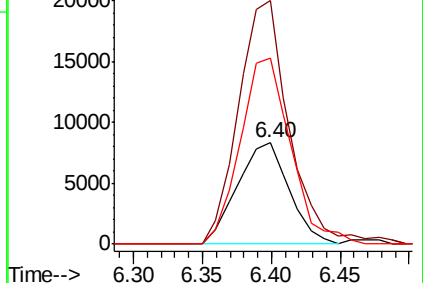
84 184.3 64.0 96.0#

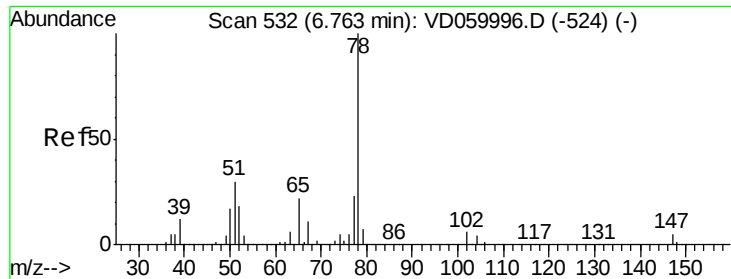


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

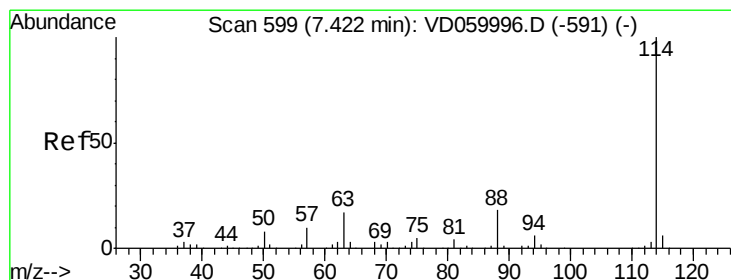
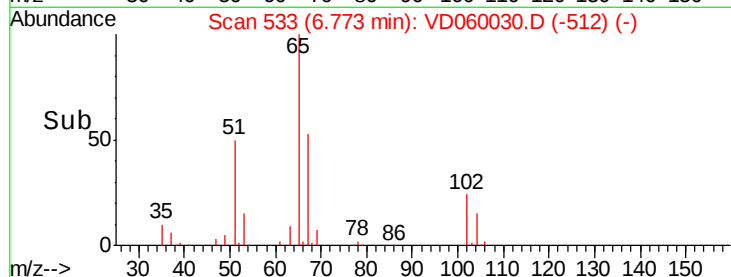
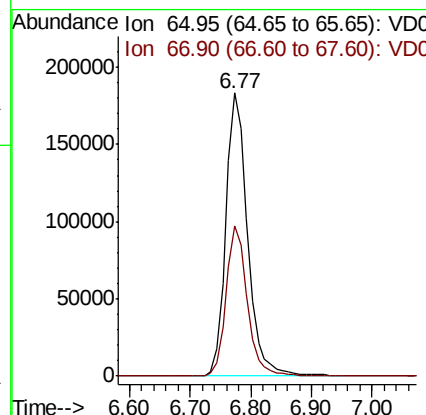
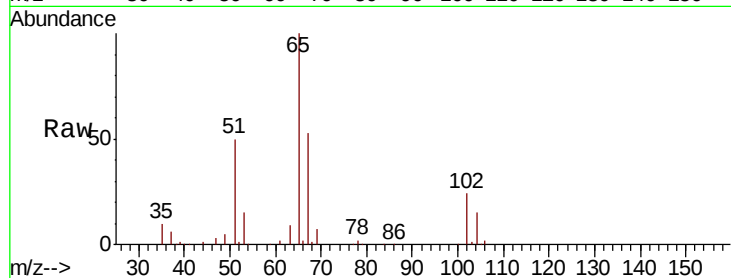




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.77 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VD060030.D
 Acq: 17 Sep 2018 19:23

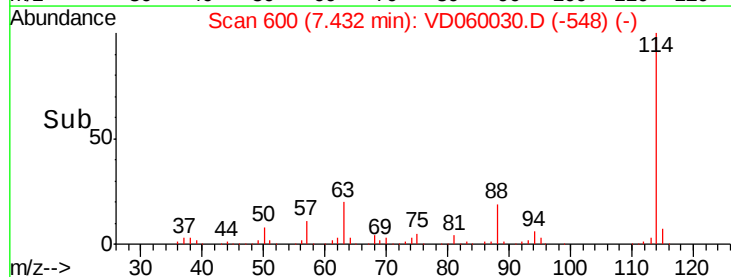
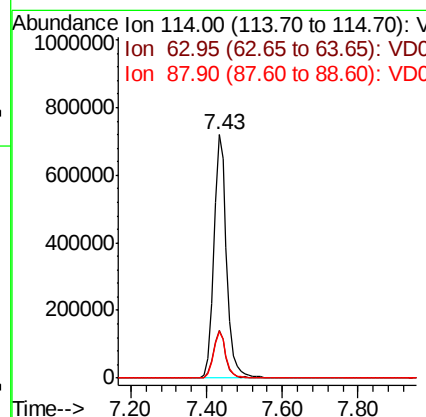
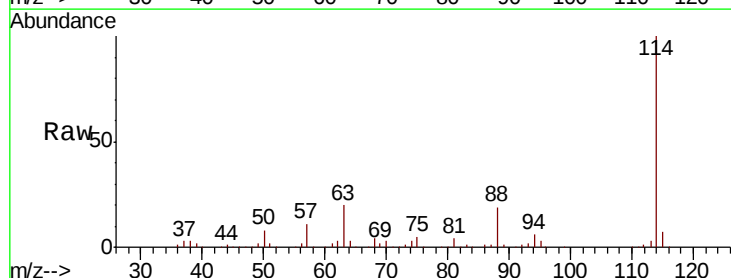
Instrument :
 MSVOA_D
 ClientSampleId :
 RB32727RTRE

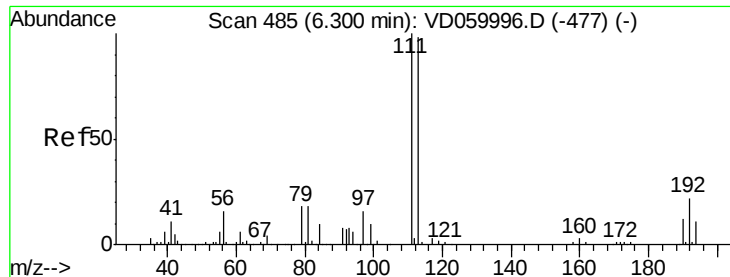
Tgt Ion: 65 Resp: 456628
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.43 min Scan# 600
 Delta R.T. 0.01 min
 Lab File: VD060030.D
 Acq: 17 Sep 2018 19:23

Tgt Ion: 114 Resp: 1722839
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 34.4
 88 19.1 0.0 35.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.31 min Scan# 486

Delta R.T. 0.01 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

Instrument :

MSVOA_D

ClientSampleId :

RB32727RTRE

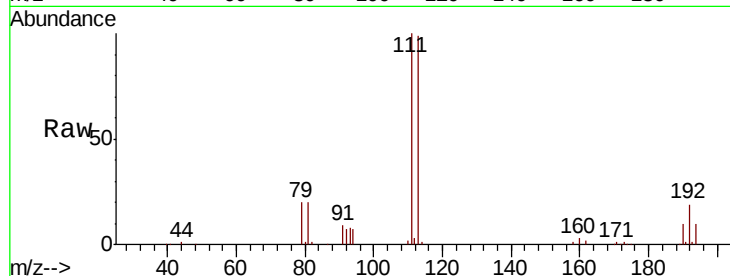
Tgt Ion:113 Resp: 572046

Ion Ratio Lower Upper

113 100

111 101.1 81.3 121.9

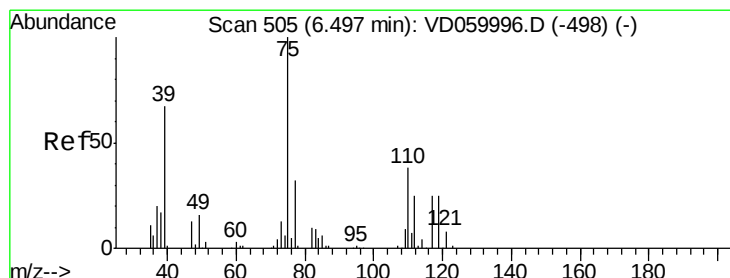
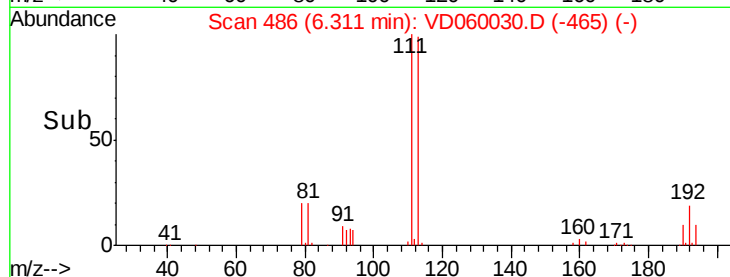
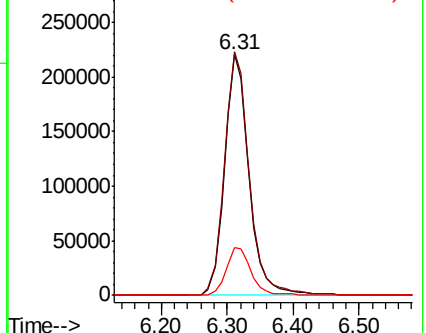
192 19.6 18.1 27.1



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: 5.135 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.10 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

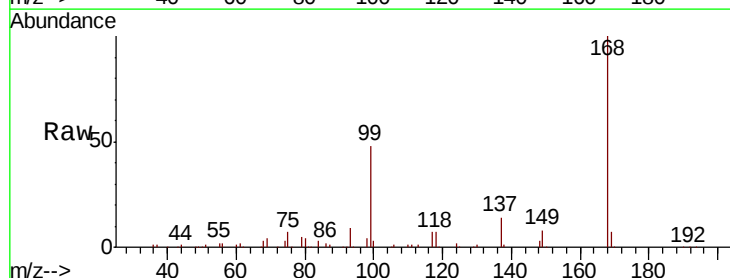
Tgt Ion: 75 Resp: 87886

Ion Ratio Lower Upper

75 100

110 7.5 18.9 56.9#

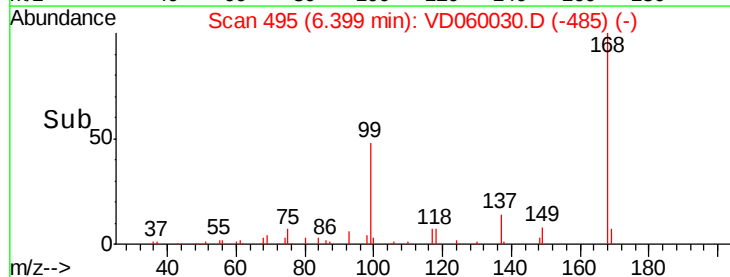
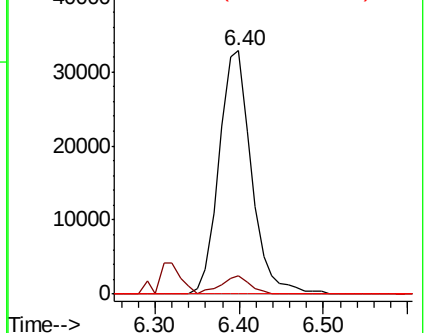
77 0.0 25.3 37.9#

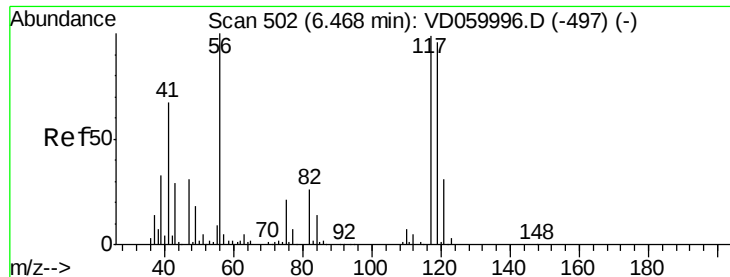


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 5.757 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.07 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

Instrument :

MSVOA_D

ClientSampleId :

RB32727RTRE

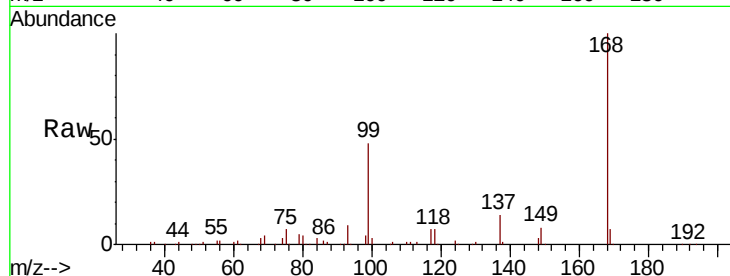
Tgt Ion:117 Resp: 91970

Ion Ratio Lower Upper

117 100

119 5.4 76.7 115.1#

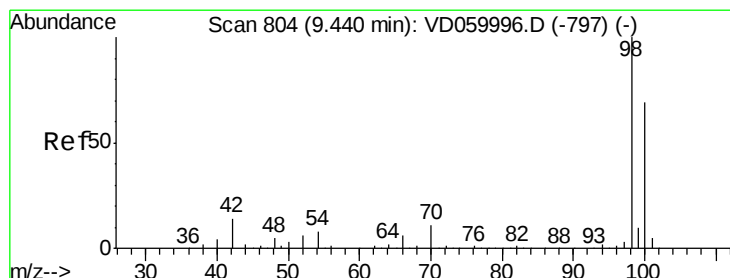
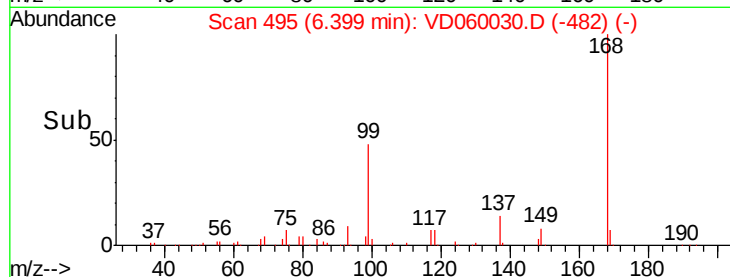
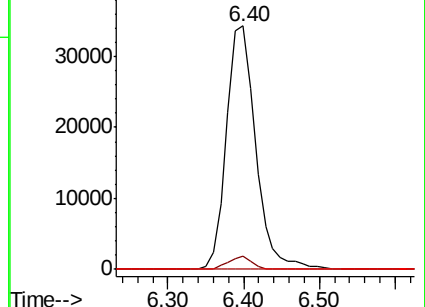
121 0.0 24.9 37.3#



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# 805

Delta R.T. 0.01 min

Lab File: VD060030.D

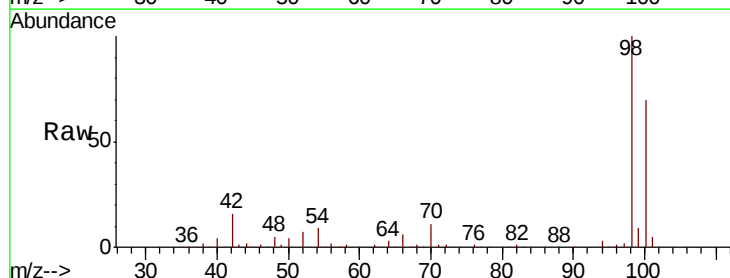
Acq: 17 Sep 2018 19:23

Tgt Ion: 98 Resp: 1474232

Ion Ratio Lower Upper

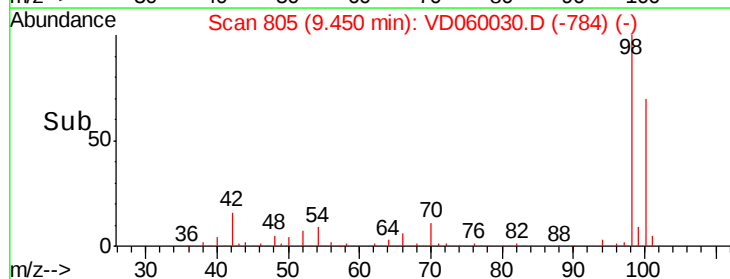
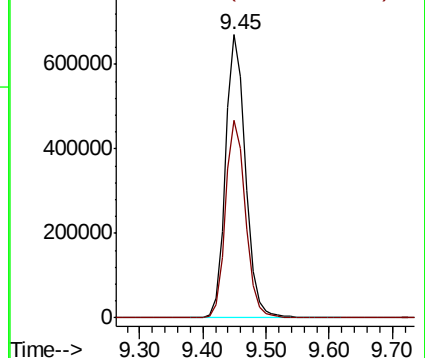
98 100

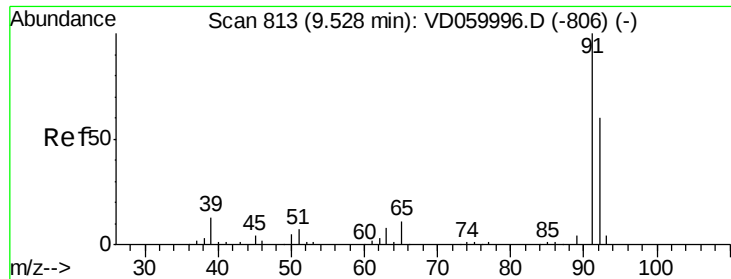
100 69.9 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 1.147 ug/l

RT: 9.55 min Scan# 815

Delta R.T. 0.02 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

Instrument :

MSVOA_D

ClientSampleId :

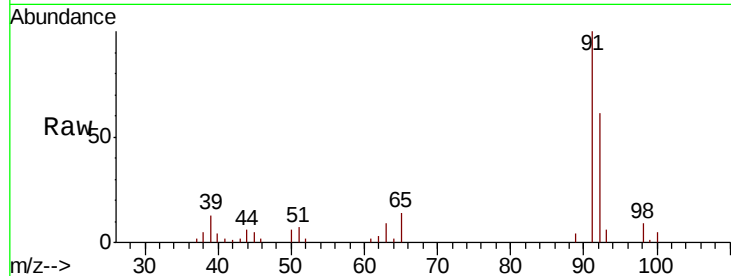
RB32727RTRE

Tgt Ion: 92 Resp: 32077

Ion Ratio Lower Upper

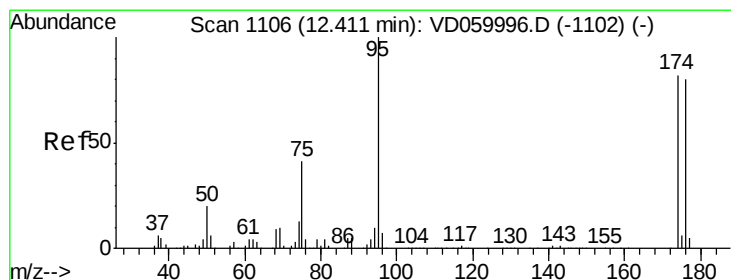
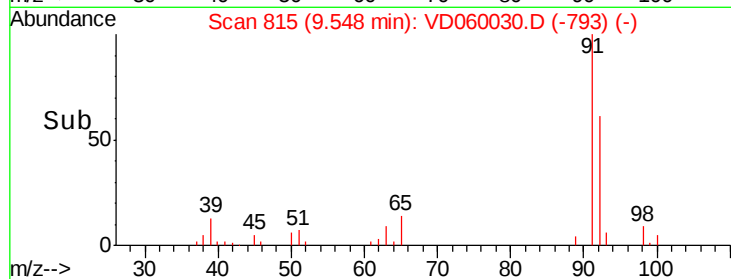
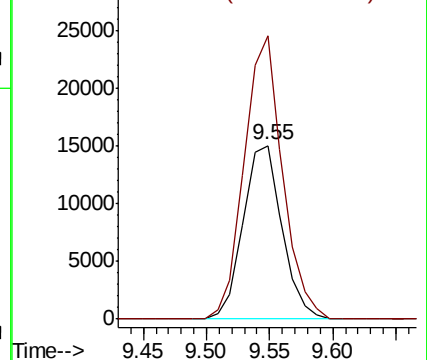
92 100

91 163.1 132.3 198.5



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: 12.42 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

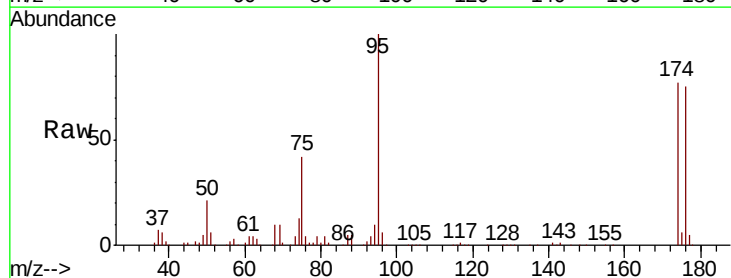
Tgt Ion: 95 Resp: 553402

Ion Ratio Lower Upper

95 100

174 77.4 0.0 165.0

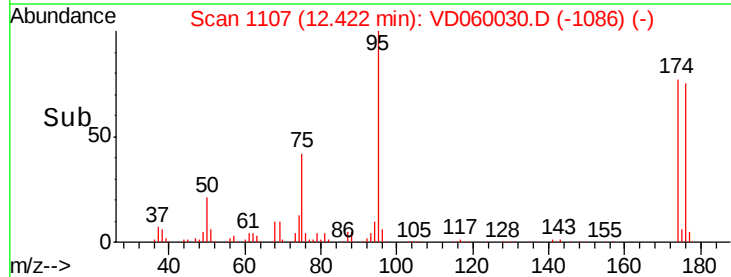
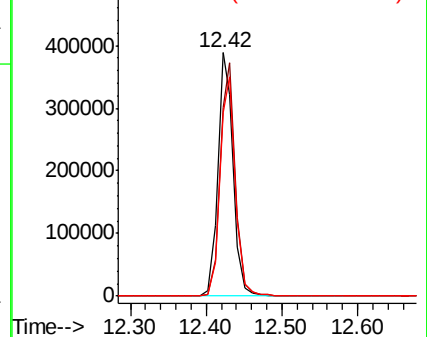
176 75.4 0.0 160.2

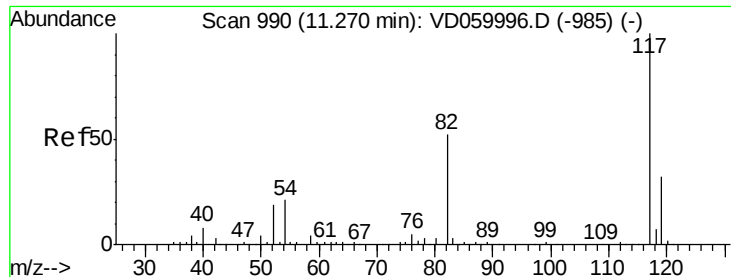


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

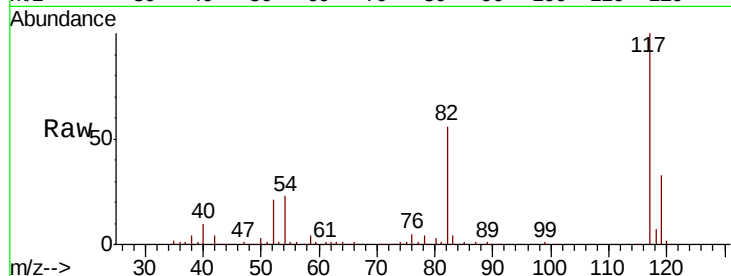




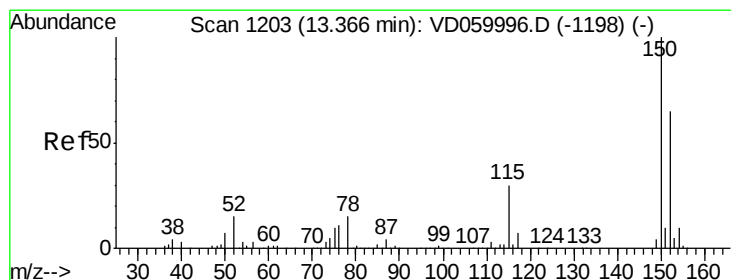
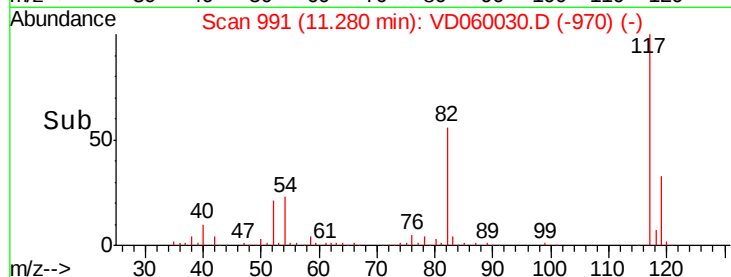
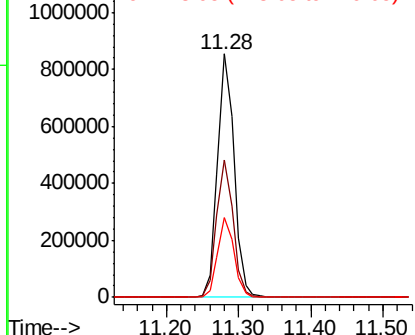
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060030.D
Acq: 17 Sep 2018 19:23

Instrument :
MSVOA_D
ClientSampleId :
RB32727RTRE

Tgt Ion:117 Resp: 1351086
Ion Ratio Lower Upper
117 100
82 56.2 41.7 62.5
119 32.6 26.0 39.0

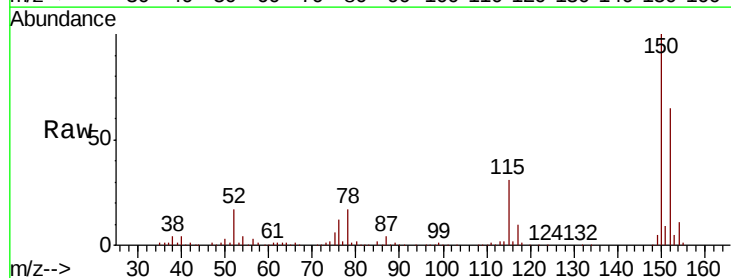


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

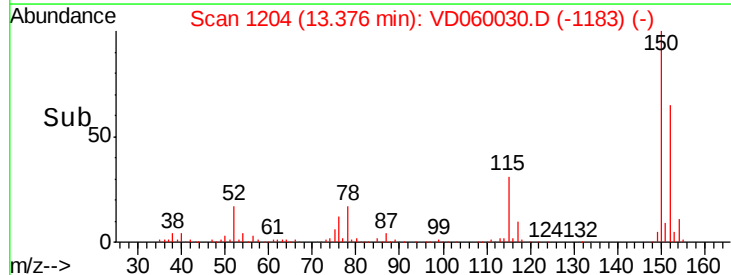
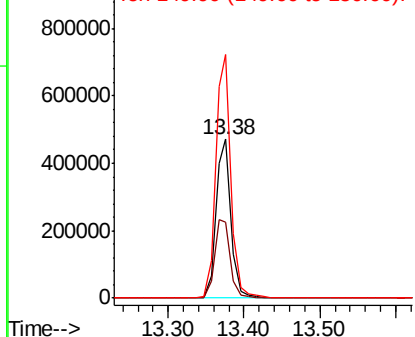


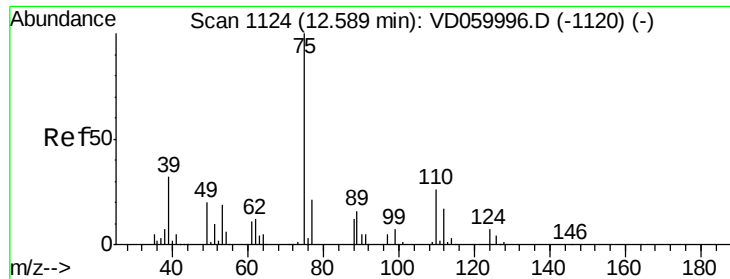
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1204
Delta R.T. 0.01 min
Lab File: VD060030.D
Acq: 17 Sep 2018 19:23

Tgt Ion:152 Resp: 659824
Ion Ratio Lower Upper
152 100
115 48.0 24.6 73.8
150 153.1 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





#76

1,2,3-Trichloropropane

Concen: 19.081 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.17 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

Instrument :

MSVOA_D

ClientSampleId :

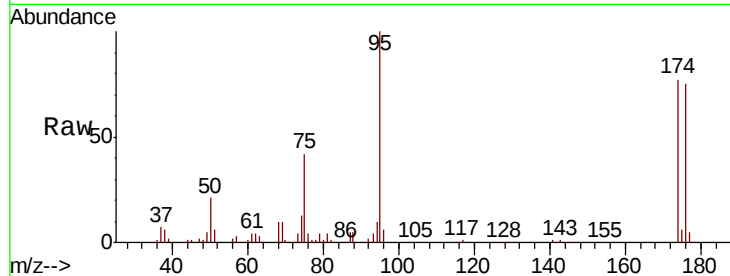
RB32727RTRE

Tgt Ion: 75 Resp: 192283

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

12.42

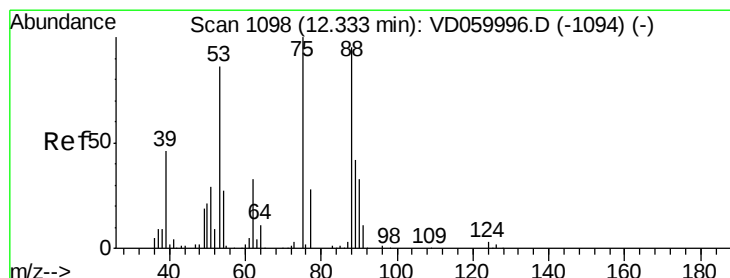
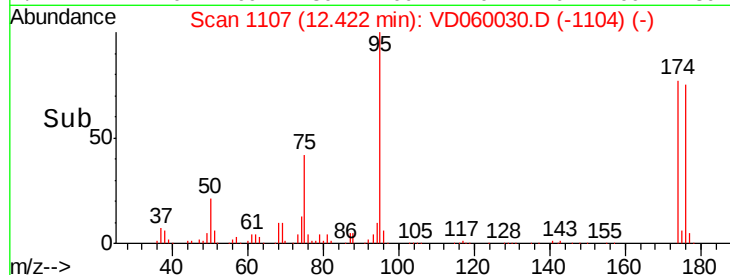
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 74.709 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.09 min

Lab File: VD060030.D

Acq: 17 Sep 2018 19:23

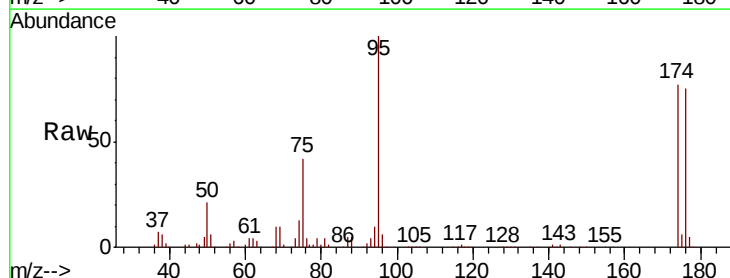
Tgt Ion: 75 Resp: 227264

Ion Ratio Lower Upper

75 100

53 0.0 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

200000

150000

100000

50000

0

Time-->

