

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122818\
 Data File : VD060749.D
 Acq On : 28 Dec 2018 16:32
 Operator : VA/AP
 Sample : J6193-11
 Misc : 6.37g/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-02-122718-A

Quant Time: Dec 28 22:02:40 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	6.41	168	1377872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	1921381	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1412294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	586925	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	514495	54.03	ug/l	0.00
Spiked Amount			Recovery	=	108.06%	
35) Dibromofluoromethane	6.33	113	721897	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
50) Toluene-d8	9.46	98	1933761	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
62) 4-Bromofluorobenzene	12.42	95	579614	39.44	ug/l	0.00
Spiked Amount			Recovery	=	78.88%	

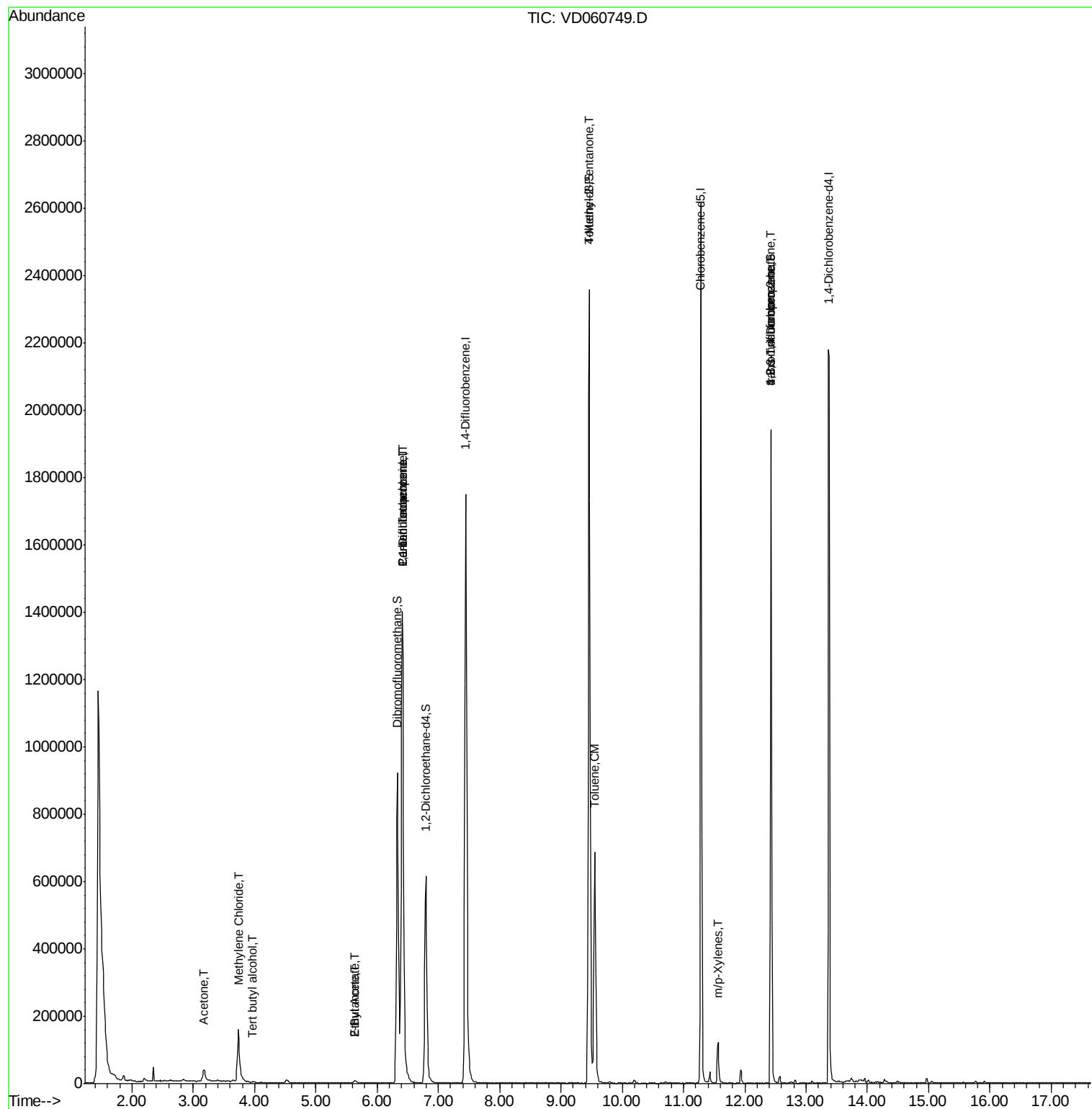
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.96	59	1703	4.279	ug/l #	74
16) Acetone	3.17	43	76291	45.878	ug/l	95
20) Methylene Chloride	3.73	84	100983	5.847	ug/l	97
25) 2-Butanone	5.63	43	12989	4.082	ug/l	96
36) 1,1-Dichloropropene	6.41	75	97575	4.932	ug/l #	45
37) Ethyl Acetate	5.63	43	12989	1.570	ug/l #	69
38) Carbon Tetrachloride	6.41	117	105519	6.045	ug/l #	16
51) 4-Methyl-2-Pentanone	9.45	43	10259	1.577	ug/l #	1
52) Toluene	9.55	92	357408	11.156	ug/l	97
68) m/p-Xylenes	11.57	106	37944	1.943	ug/l	95
76) 1,2,3-Trichloropropane	12.42	75	202251	30.268	ug/l #	44
81) trans-1,4-Dichloro-2-buten	12.42	75	234624	127.070	ug/l #	13

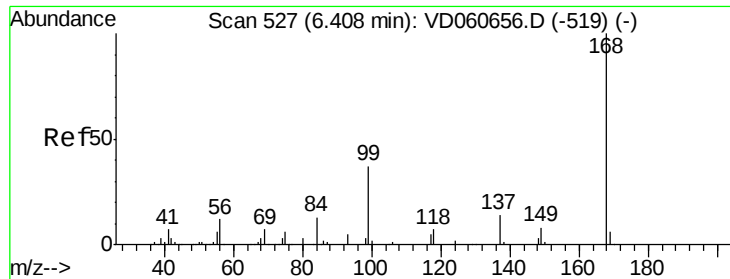
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD122818\
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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: 6.41 min Scan# 527

Delta R.T. 0.00 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

Instrument :

MSVOA_D

ClientSampleId :

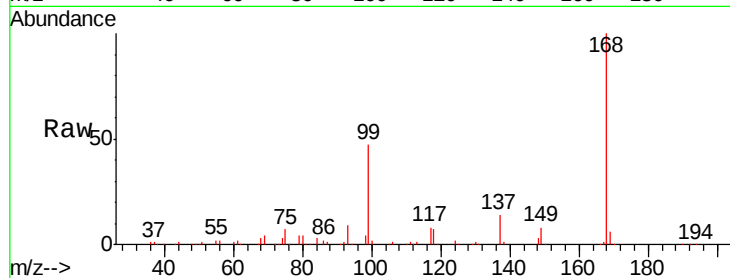
CL-02-122718-A

Tgt Ion:168 Resp: 1377872

Ion Ratio Lower Upper

168 100

99 47.3 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

500000

400000

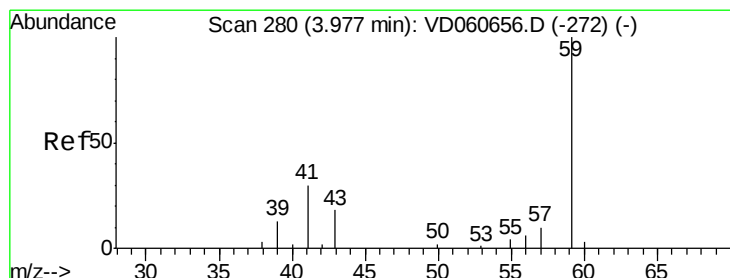
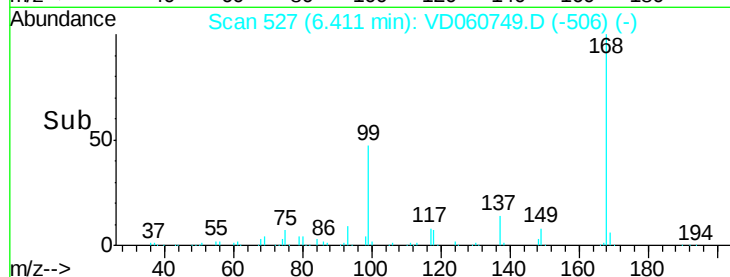
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.279 ug/l

RT: 3.96 min Scan# 278

Delta R.T. -0.02 min

Lab File: VD060749.D

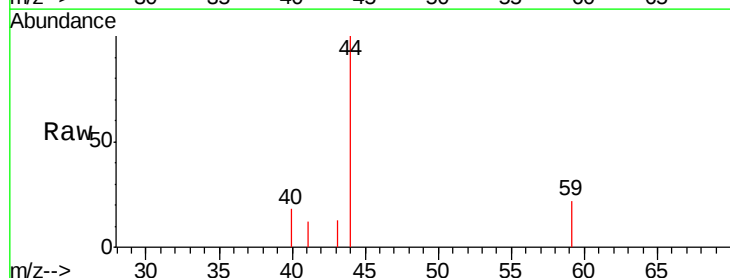
Acq: 28 Dec 2018 16:32

Tgt Ion: 59 Resp: 1703

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.96

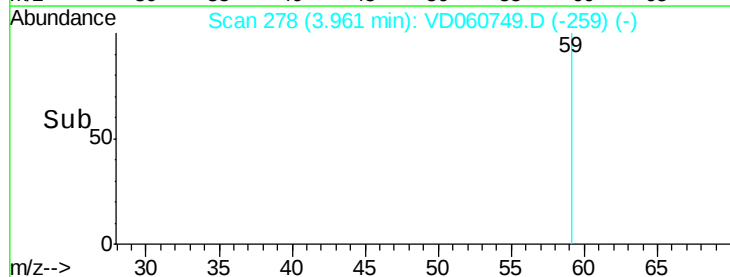
600

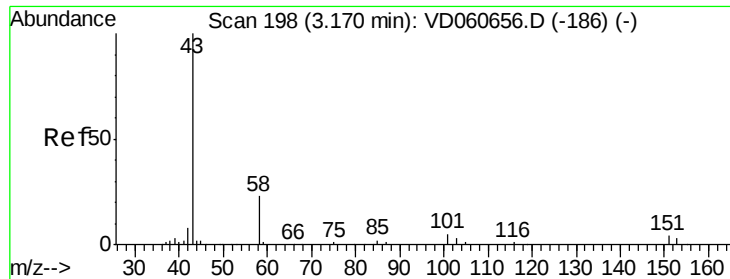
400

200

0

Time-->





#16

Acetone

Concen: 45.878 ug/l

RT: 3.17 min Scan# 198

Delta R.T. 0.00 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

Instrument :

MSVOA_D

ClientSampleId :

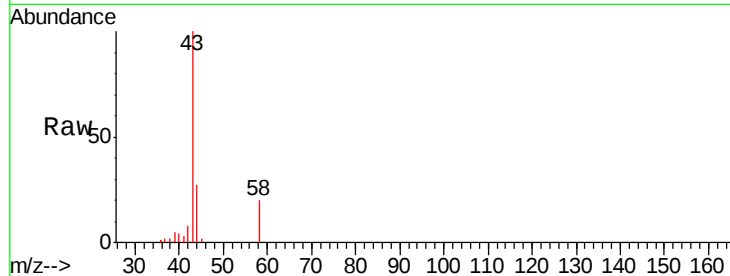
CL-02-122718-A

Tgt Ion: 43 Resp: 76291

Ion Ratio Lower Upper

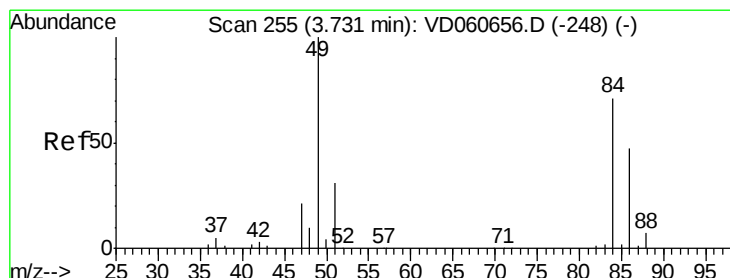
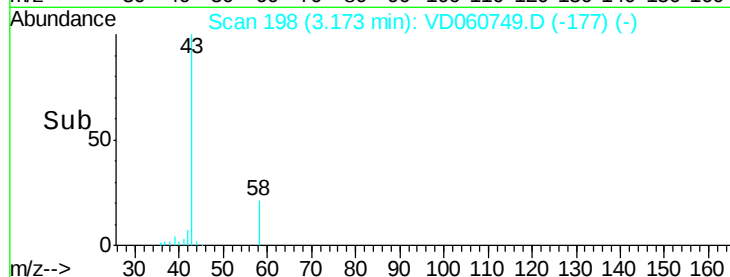
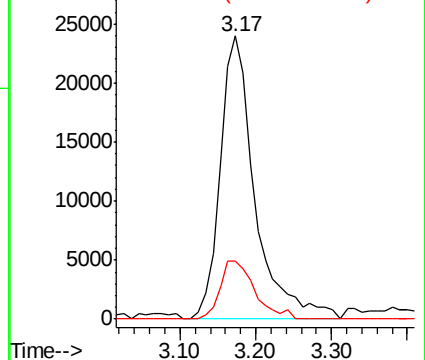
43 100

58 20.5 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 5.847 ug/l

RT: 3.73 min Scan# 255

Delta R.T. 0.00 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

Tgt Ion: 84 Resp: 100983

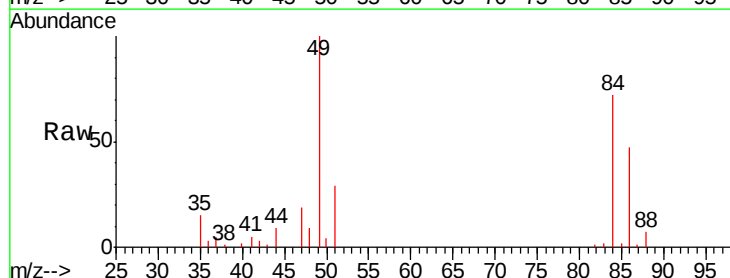
Ion Ratio Lower Upper

84 100

49 138.3 113.6 170.4

51 40.4 34.7 52.1

86 64.3 52.8 79.2

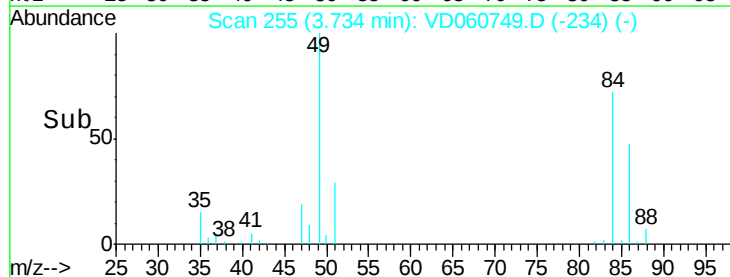
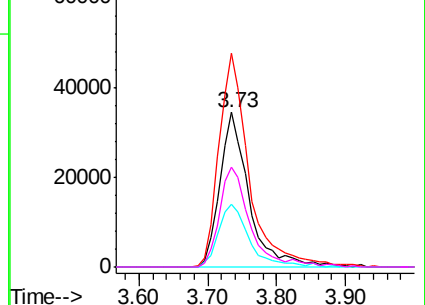


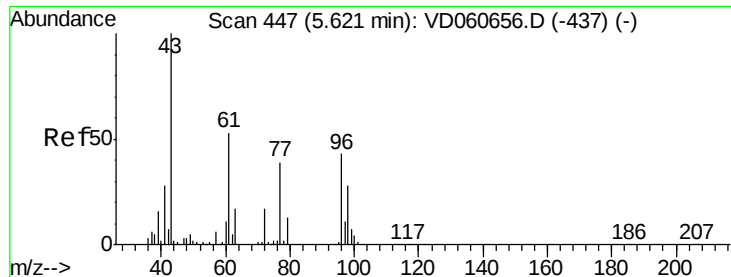
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 4.082 ug/l

RT: 5.63 min Scan# 448

Delta R.T. 0.01 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

Instrument :

MSVOA_D

ClientSampleId :

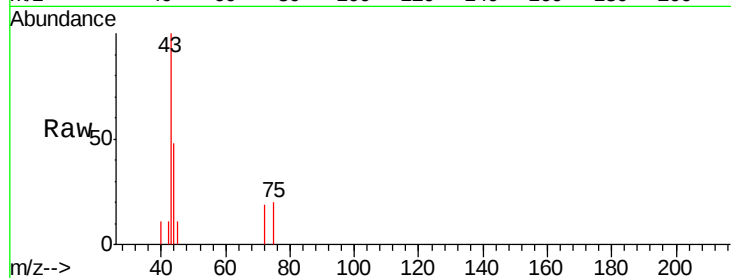
CL-02-122718-A

Tgt Ion: 43 Resp: 12989

Ion Ratio Lower Upper

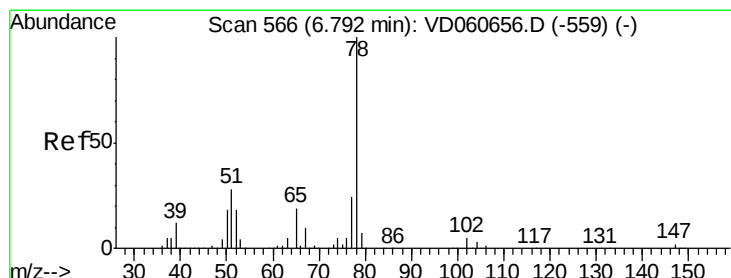
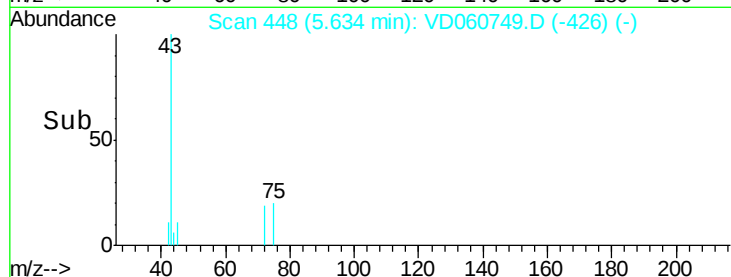
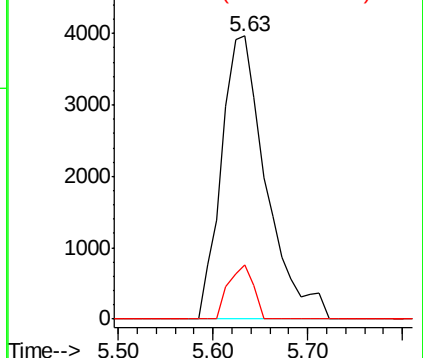
43 100

72 18.9 13.7 20.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.79 min Scan# 566

Delta R.T. 0.00 min

Lab File: VD060749.D

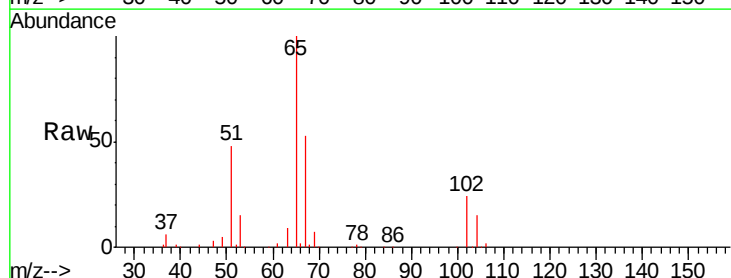
Acq: 28 Dec 2018 16:32

Tgt Ion: 65 Resp: 514495

Ion Ratio Lower Upper

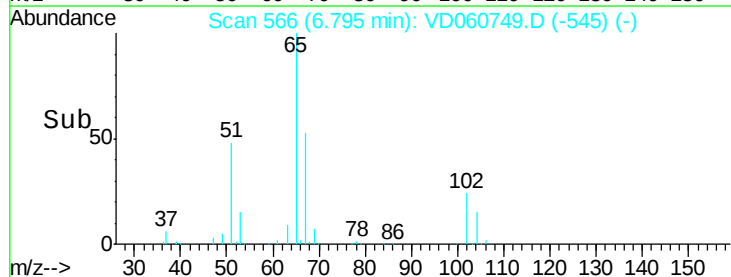
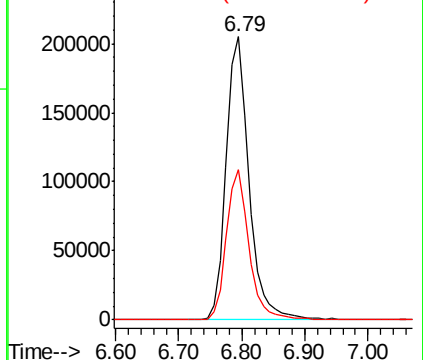
65 100

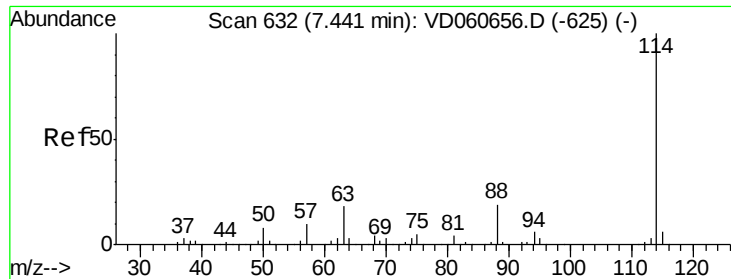
67 53.0 0.0 105.4



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# 632

Delta R.T. 0.00 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

Instrument :

MSVOA_D

ClientSampleId :

CL-02-122718-A

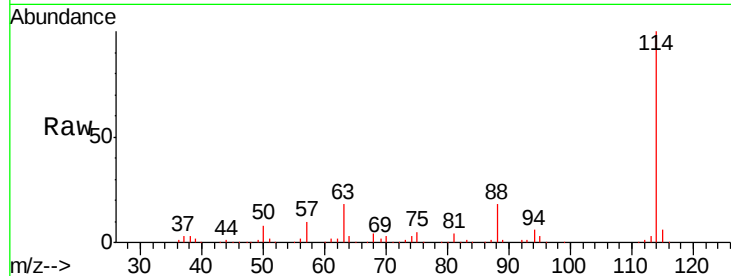
Tgt Ion:114 Resp: 1921381

Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.2

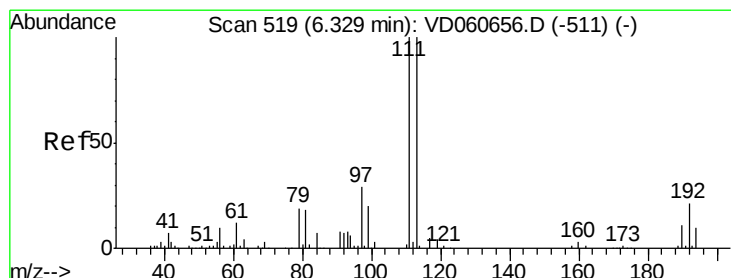
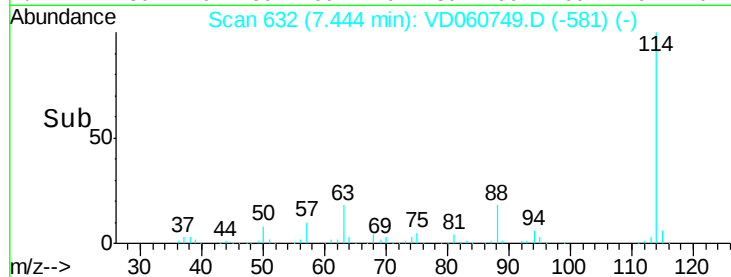
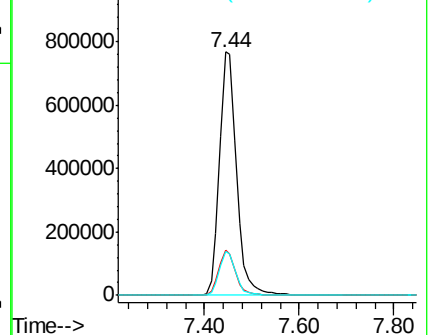
88 18.1 0.0 37.0



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: 6.33 min Scan# 519

Delta R.T. 0.00 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

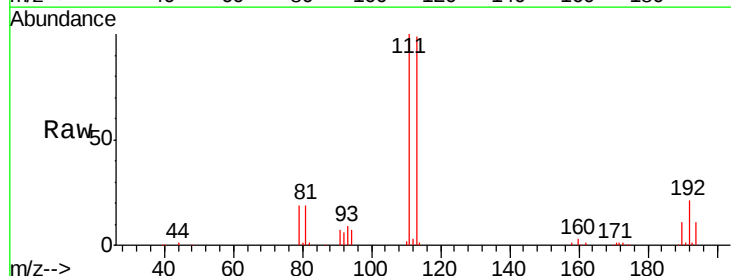
Tgt Ion:113 Resp: 721897

Ion Ratio Lower Upper

113 100

111 101.2 80.0 120.0

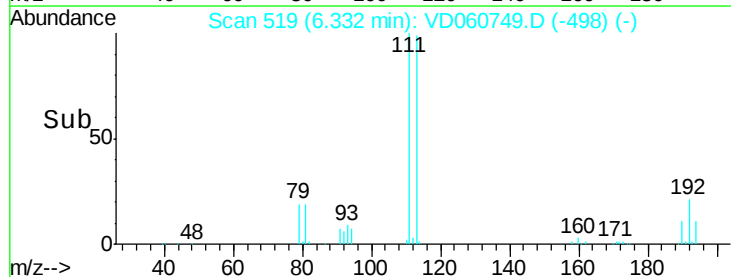
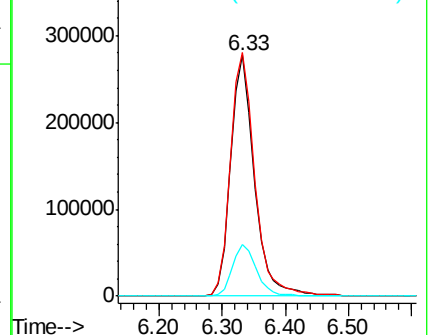
192 21.5 16.6 25.0

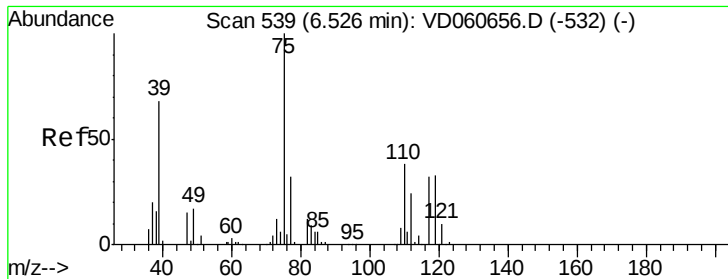


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.932 ug/l

RT: 6.41 min Scan# 527

Delta R.T. -0.11 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

Instrument :

MSVOA_D

ClientSampleId :

CL-02-122718-A

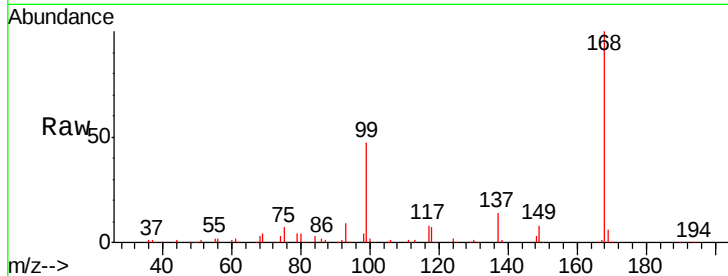
Tgt Ion: 75 Resp: 97575

Ion Ratio Lower Upper

75 100

110 5.9 18.9 56.7#

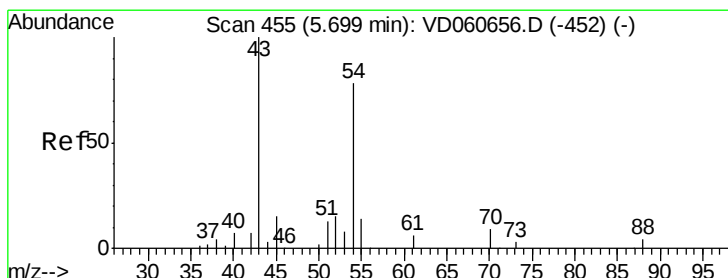
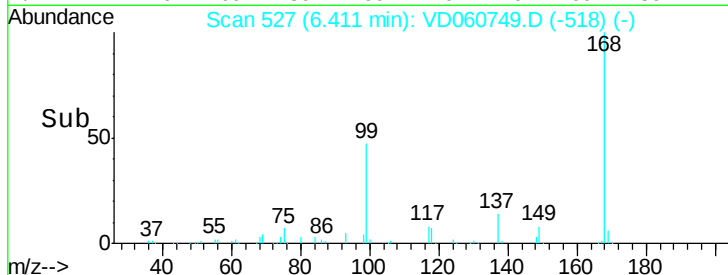
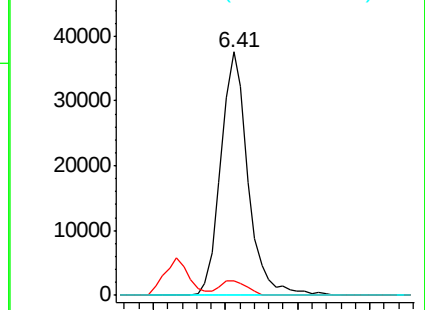
77 0.0 25.4 38.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.570 ug/l

RT: 5.63 min Scan# 448

Delta R.T. -0.07 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

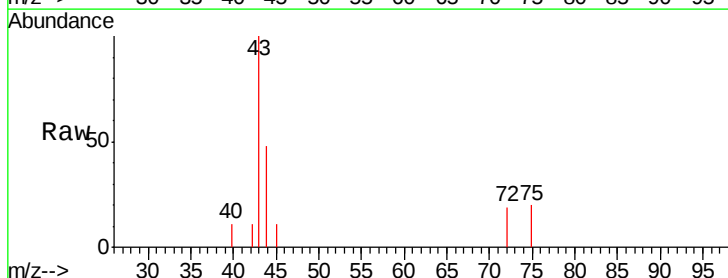
Tgt Ion: 43 Resp: 12989

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

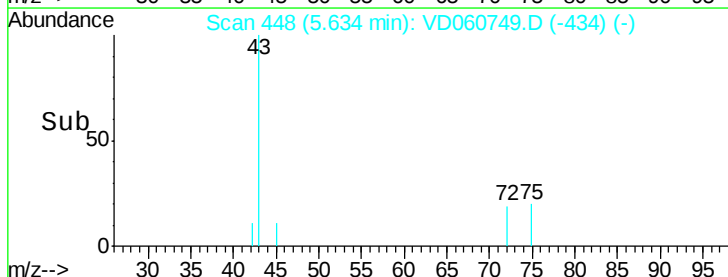
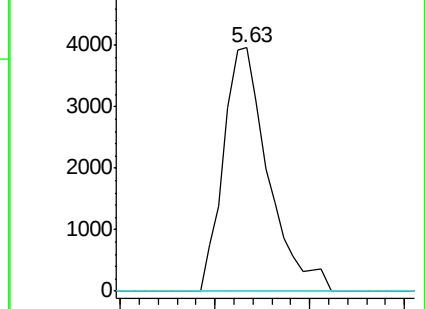
70 0.0 5.8 8.6#

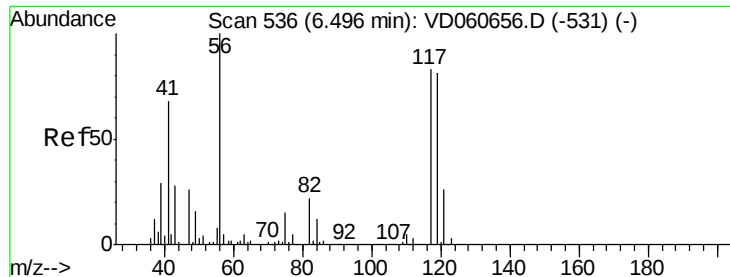


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.045 ug/l

RT: 6.41 min Scan# 527

Delta R.T. -0.09 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

Instrument :

MSVOA_D

ClientSampleId :

CL-02-122718-A

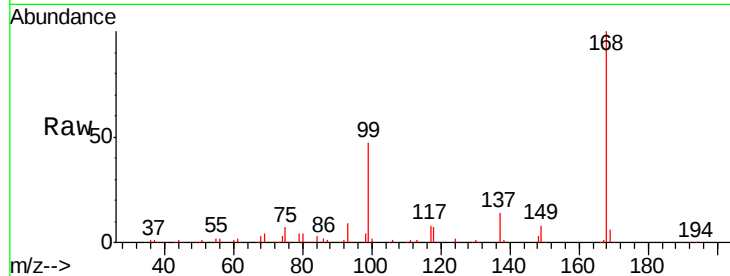
Tgt Ion:117 Resp: 105519

Ion Ratio Lower Upper

117 100

119 5.2 77.0 115.4#

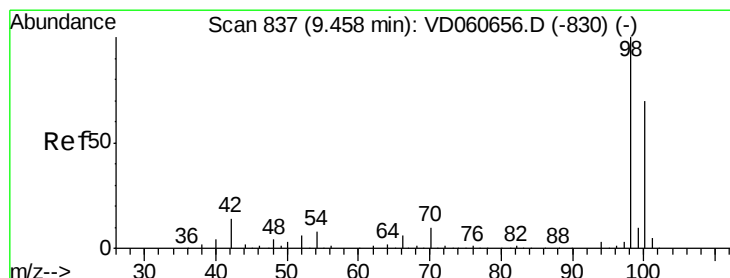
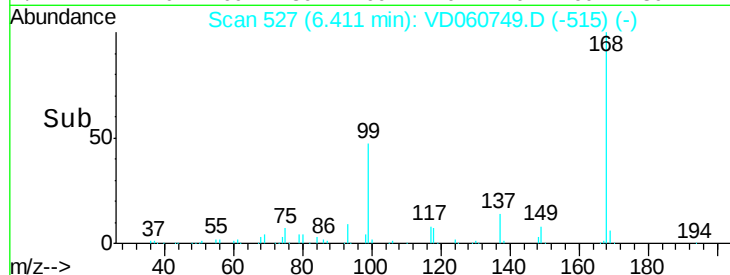
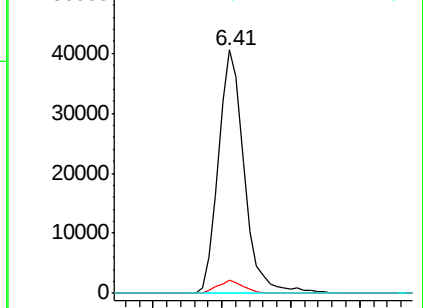
121 0.0 24.7 37.1#



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: 9.46 min Scan# 837

Delta R.T. 0.00 min

Lab File: VD060749.D

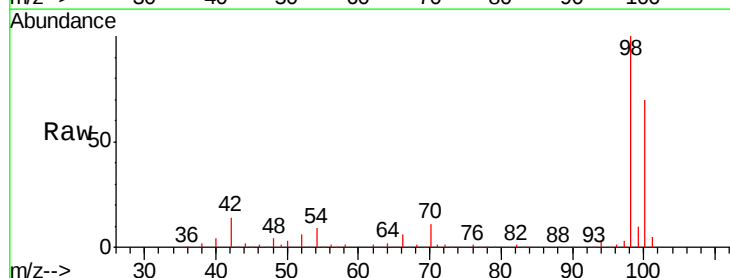
Acq: 28 Dec 2018 16:32

Tgt Ion: 98 Resp: 1933761

Ion Ratio Lower Upper

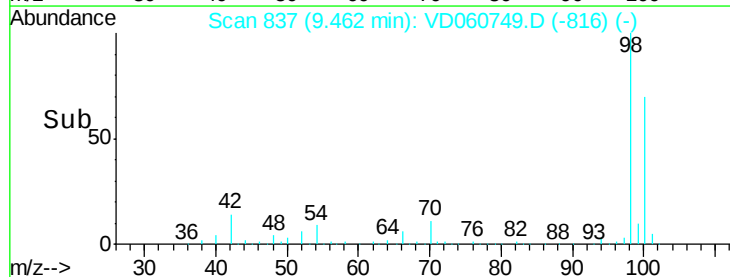
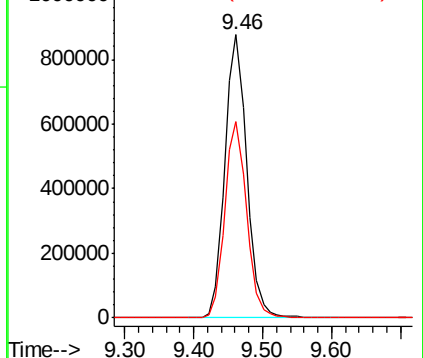
98 100

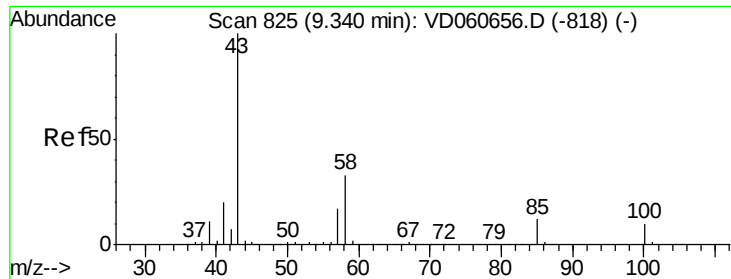
100 69.6 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.577 ug/l

RT: 9.45 min Scan# 836

Delta R.T. 0.11 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

Instrument :

MSVOA_D

ClientSampleId :

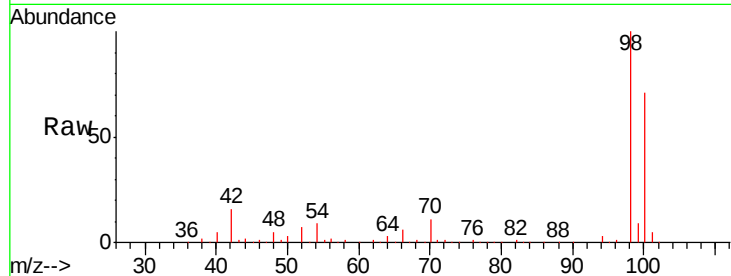
CL-02-122718-A

Tgt Ion: 43 Resp: 10259

Ion Ratio Lower Upper

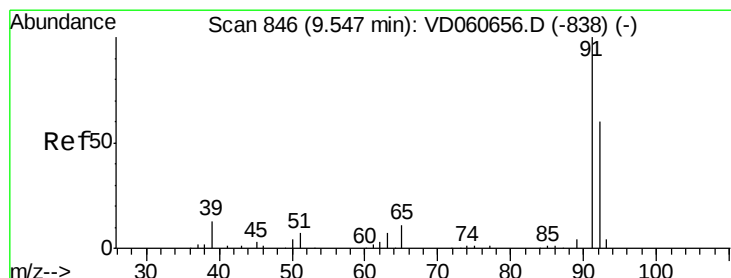
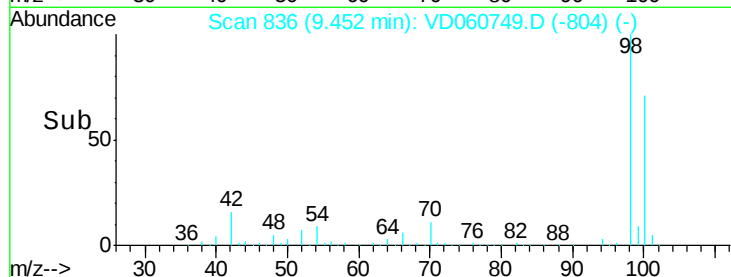
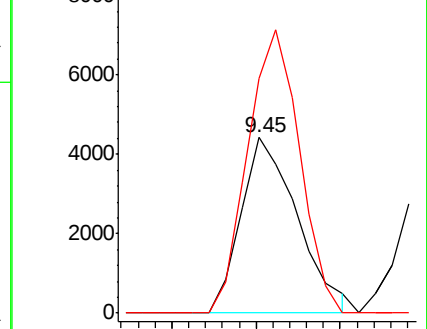
43 100

58 134.1 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: 11.156 ug/l

RT: 9.55 min Scan# 846

Delta R.T. 0.00 min

Lab File: VD060749.D

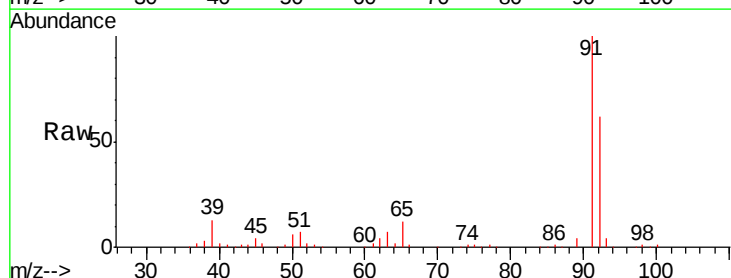
Acq: 28 Dec 2018 16:32

Tgt Ion: 92 Resp: 357408

Ion Ratio Lower Upper

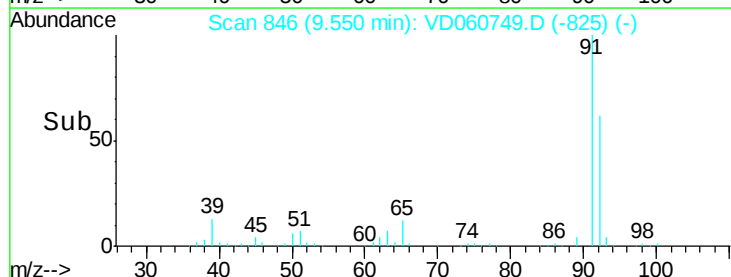
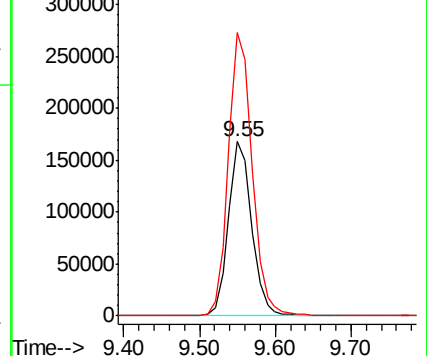
92 100

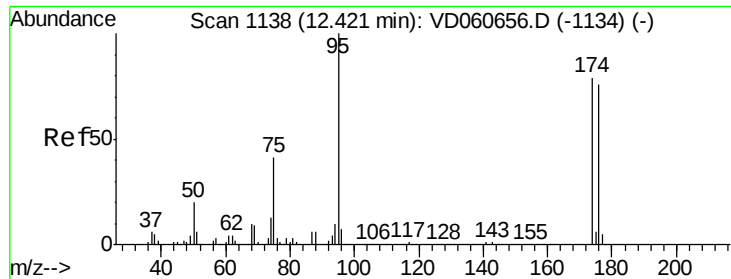
91 162.2 132.6 199.0



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: 12.42 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

Instrument :

MSVOA_D

ClientSampleId :

CL-02-122718-A

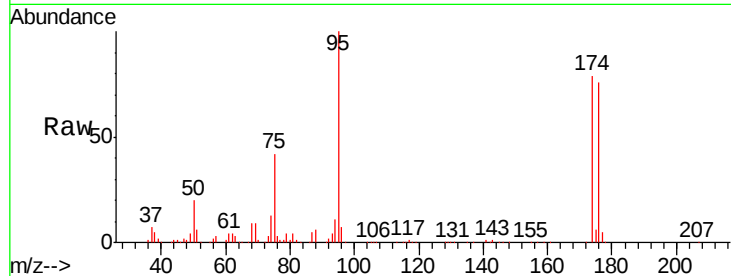
Tgt Ion: 95 Resp: 579614

Ion Ratio Lower Upper

95 100

174 78.9 0.0 158.2

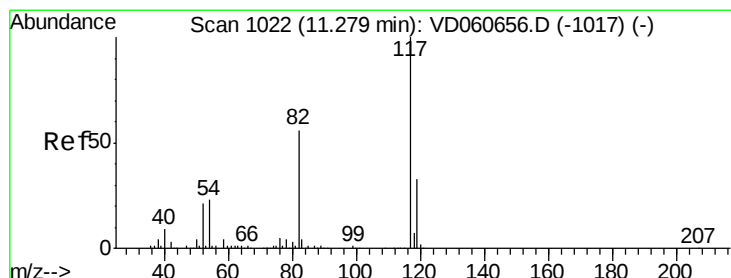
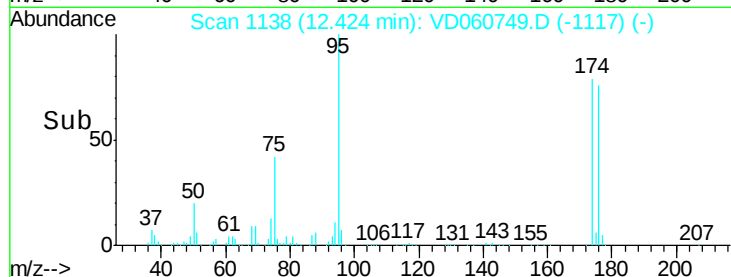
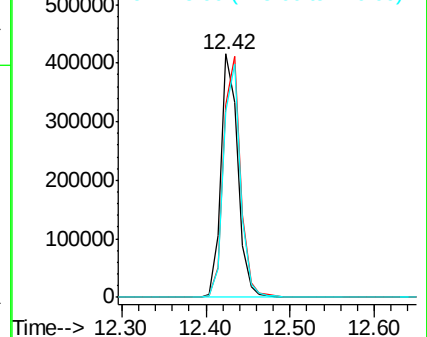
176 76.5 0.0 152.4



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# 1022

Delta R.T. 0.00 min

Lab File: VD060749.D

Acq: 28 Dec 2018 16:32

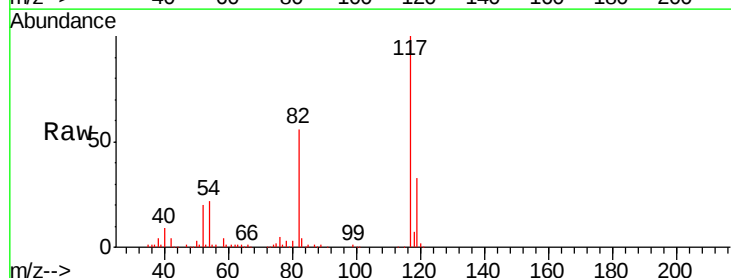
Tgt Ion: 117 Resp: 1412294

Ion Ratio Lower Upper

117 100

82 55.6 44.5 66.7

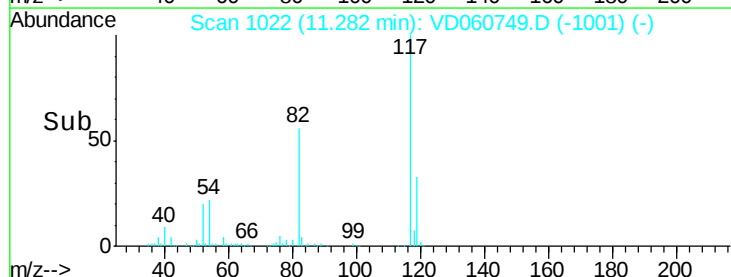
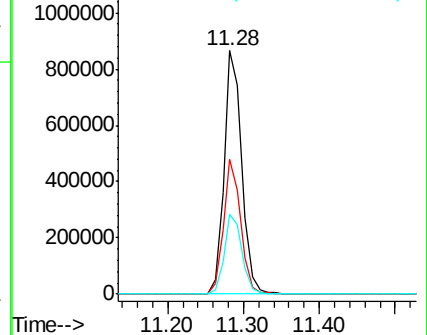
119 32.7 26.3 39.5

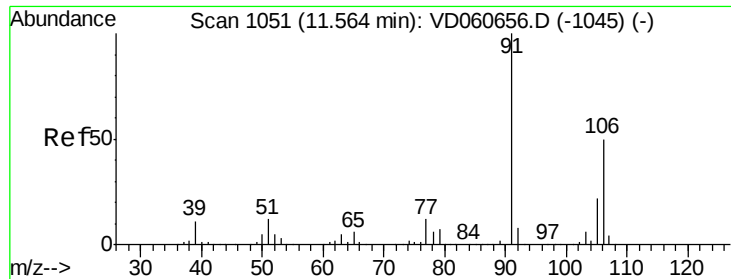


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

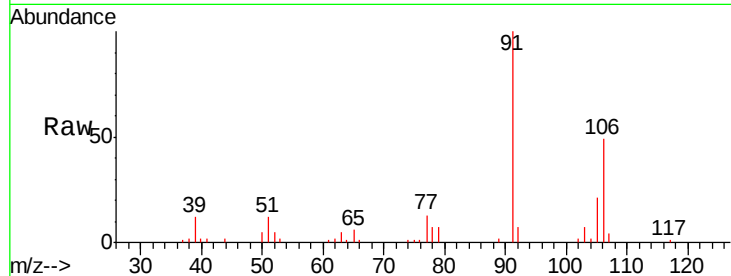




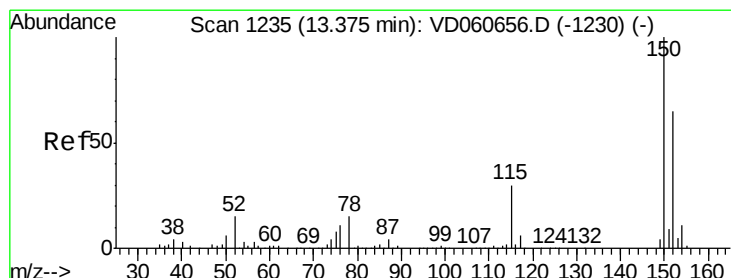
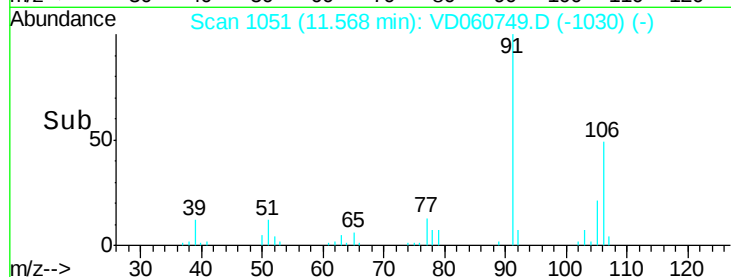
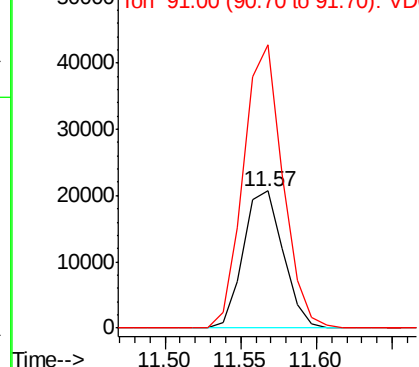
#68
m/p-Xylenes
Concen: 1.943 ug/l
RT: 11.57 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VD060749.D
Acq: 28 Dec 2018 16:32

Instrument :
MSVOA_D
ClientSampleId :
CL-02-122718-A

Tgt Ion:106 Resp: 37944
Ion Ratio Lower Upper
106 100
91 206.1 158.9 238.3

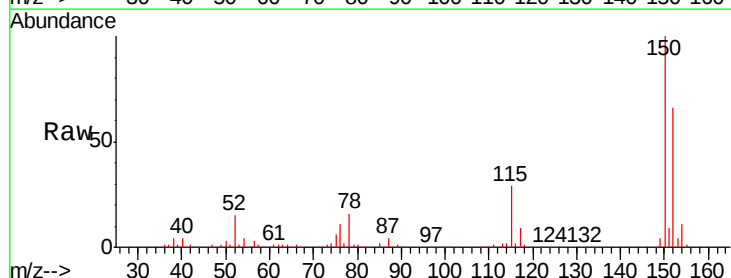


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

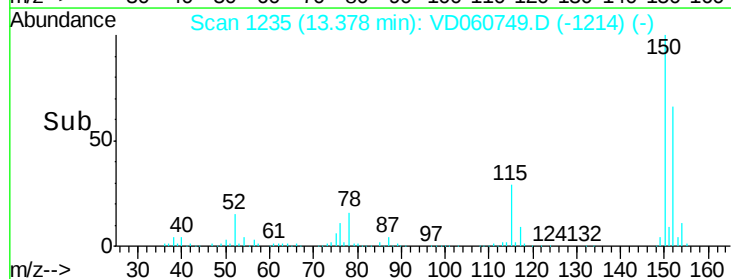
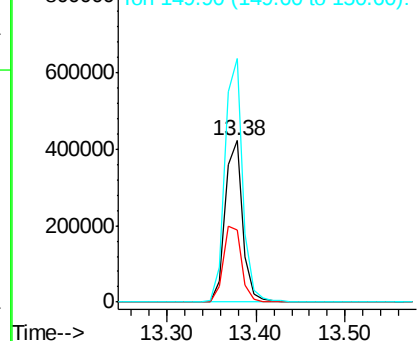


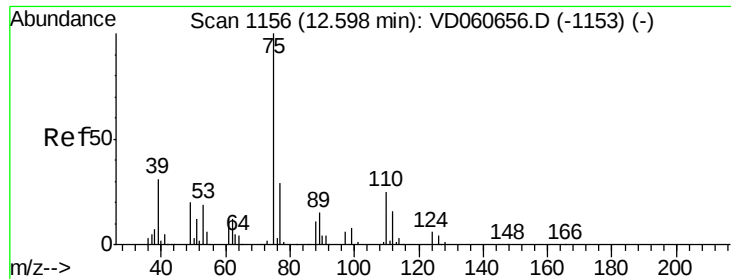
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VD060749.D
Acq: 28 Dec 2018 16:32

Tgt Ion:152 Resp: 586925
Ion Ratio Lower Upper
152 100
115 44.4 24.1 72.3
150 150.9 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

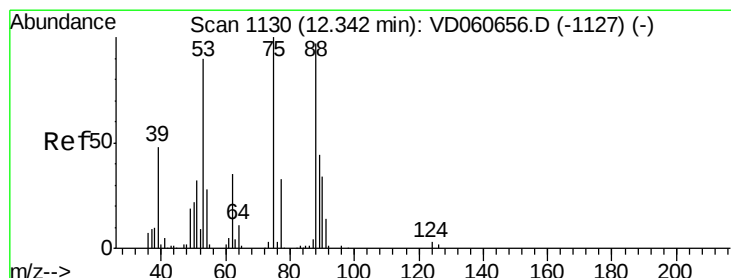
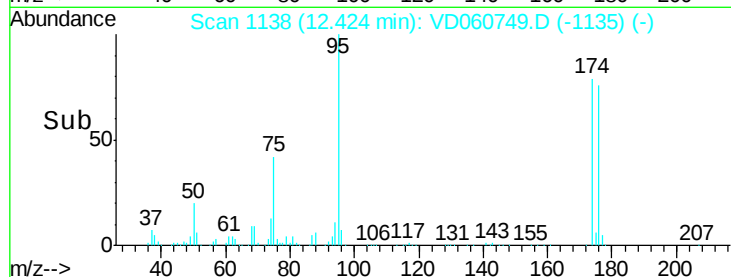
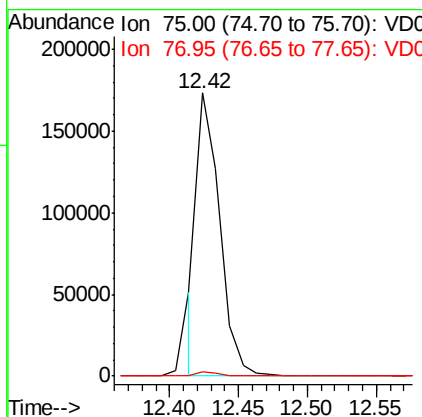
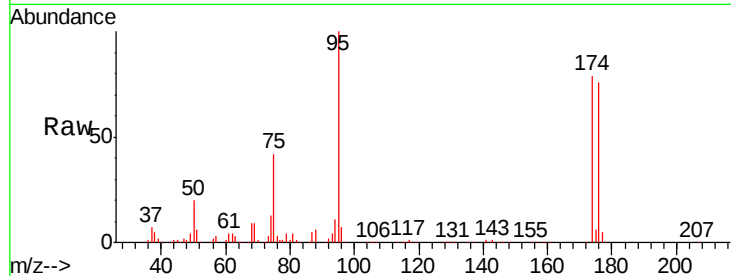




#76
 1,2,3-Trichloropropane
 Concen: 30.268 ug/l
 RT: 12.42 min Scan# 1138
 Delta R.T. -0.17 min
 Lab File: VD060749.D
 Acq: 28 Dec 2018 16:32

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-02-122718-A

Tgt Ion: 75 Resp: 202251
 Ion Ratio Lower Upper
 75 100
 77 1.4 16.7 50.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.070 ug/l
 RT: 12.42 min Scan# 1138
 Delta R.T. 0.08 min
 Lab File: VD060749.D
 Acq: 28 Dec 2018 16:32

Tgt Ion: 75 Resp: 234624
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.1 108.1#
 89 0.0 35.1 52.7#

