

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062518\
 Data File : VD059407.D
 Acq On : 25 Jun 2018 19:05
 Operator : VA/AP
 Sample : J3669-10
 Misc : 6.58g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 26 06:48:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	826963	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	6.68	114	1041089	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	859627	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.90	152	464241	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.00	65	323977	38.31	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	76.62%	
35) Dibromofluoromethane	5.53	113	333397	39.32	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	78.64%	
50) Toluene-d8	8.70	98	741806	37.42	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	74.84%	
62) 4-Bromofluorobenzene	11.93	95	344382	41.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	83.52%	

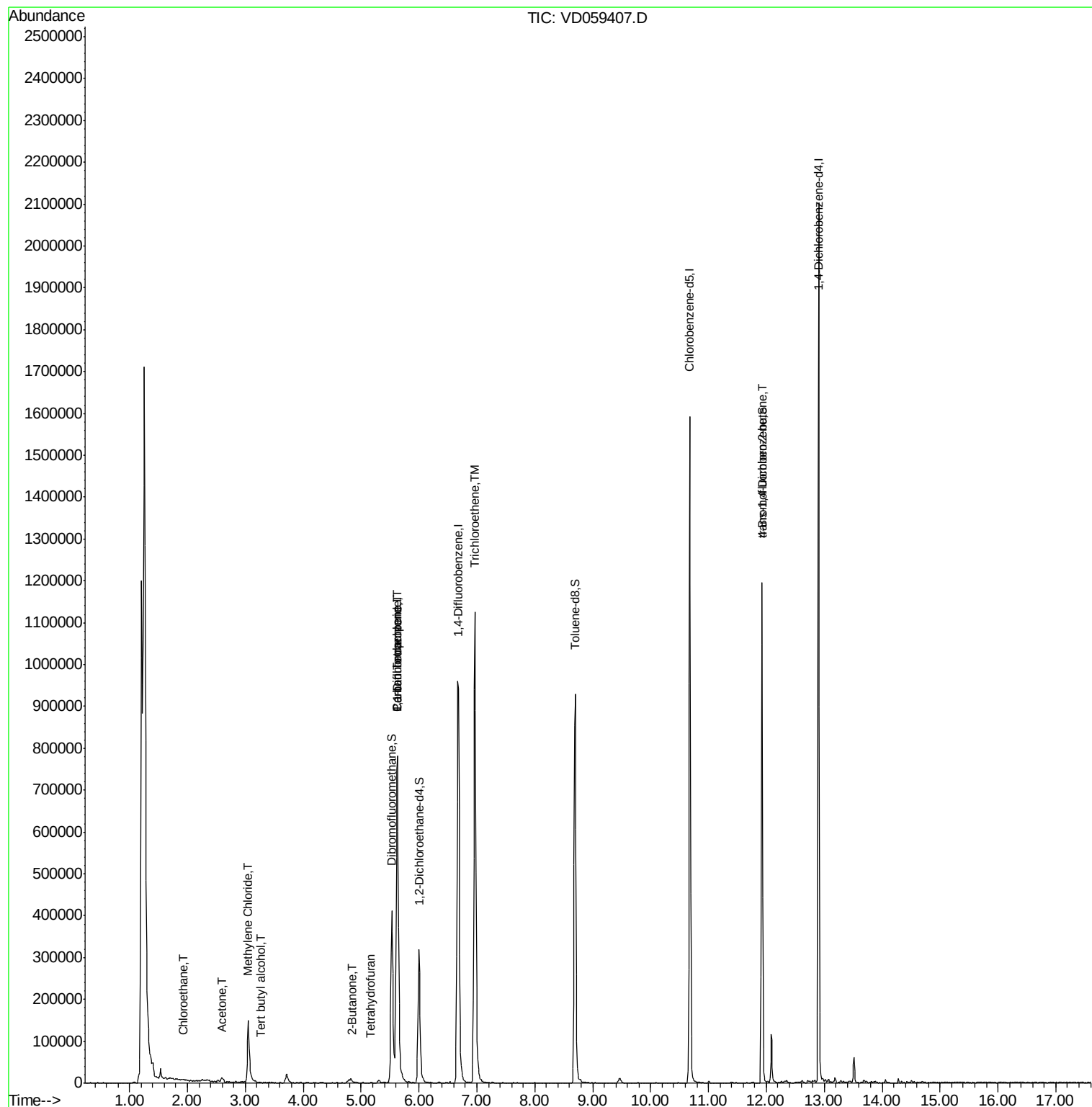
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.81	94	496	Below Cal	#	4
6) Chloroethane	1.92	64	193	2.011	ug/l #	41
11) Tert butyl alcohol	3.26	59	461	1.576	ug/l #	72
16) Acetone	2.59	43	24187	22.661	ug/l #	90
18) Methyl Acetate	2.93	43	1350	Below Cal	#	66
20) Methylene Chloride	3.05	84	78175	25.171	ug/l	100
25) 2-Butanone	4.85	43	3963	1.772	ug/l #	57
29) Tetrahydrofuran	5.17	42	1282	1.048	ug/l #	37
31) Cyclohexane	5.62	56	19355	Below Cal	#	1
36) 1,1-Dichloropropene	5.63	75	64785	6.860	ug/l #	51
38) Carbon Tetrachloride	5.63	117	69908	7.180	ug/l #	16
44) Trichloroethene	6.97	130	471536	63.544	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.92	75	158545	108.932	ug/l #	1

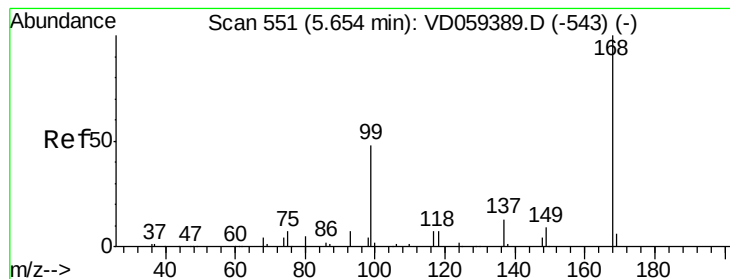
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.03 min

Lab File: VD059407.D

Acq: 25 Jun 2018 19:05

Instrument :

MSVOA_D

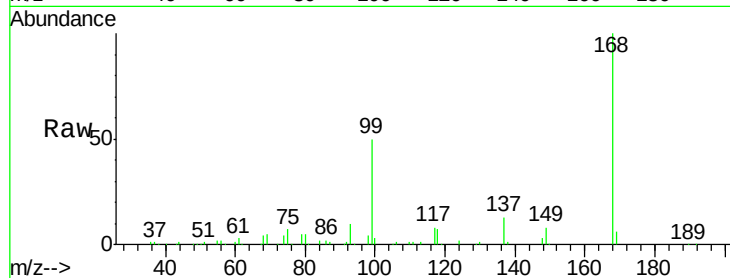
ClientSampleId :

Tot Ion:168 Resp: 826963

Ion Ratio Lower Upper

168 100

99 49.9 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.63

300000

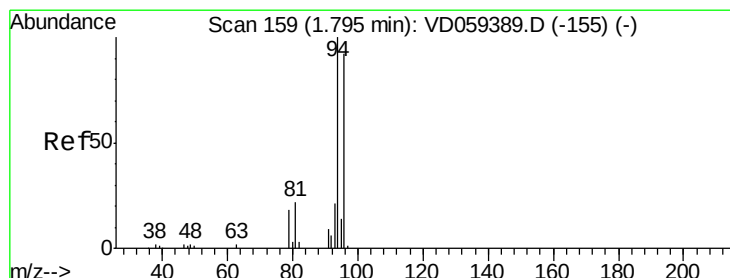
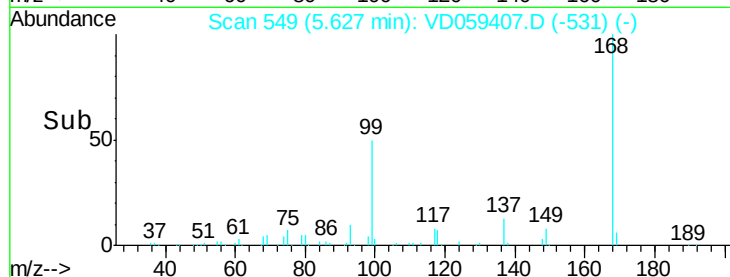
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.81 min Scan# 161

Delta R.T. 0.01 min

Lab File: VD059407.D

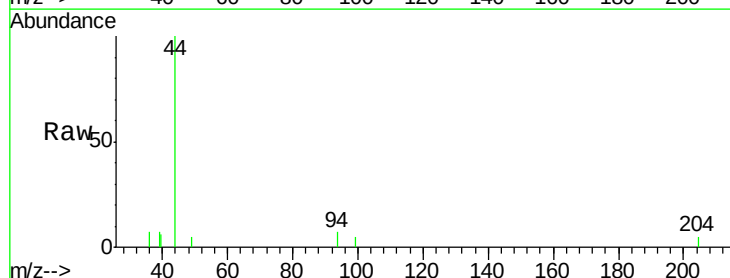
Acq: 25 Jun 2018 19:05

Tgt Ion: 94 Resp: 496

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

800

600

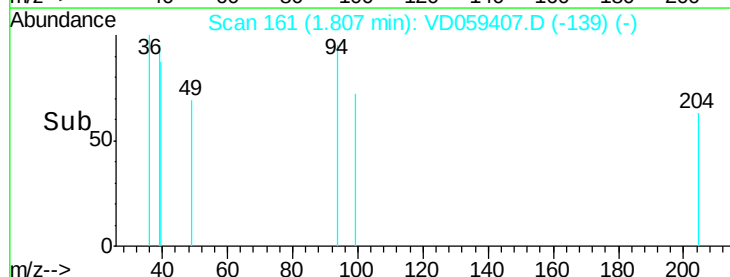
400

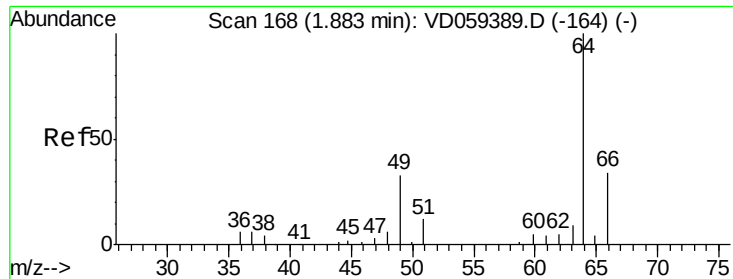
200

0

Time-->

1.78 1.80 1.82 1.84





#6

Chloroethane

Concen: 2.011 ug/l

RT: 1.92 min Scan# 172

Delta R.T. 0.03 min

Lab File: VD059407.D

Acq: 25 Jun 2018 19:05

Instrument :

MSVOA_D

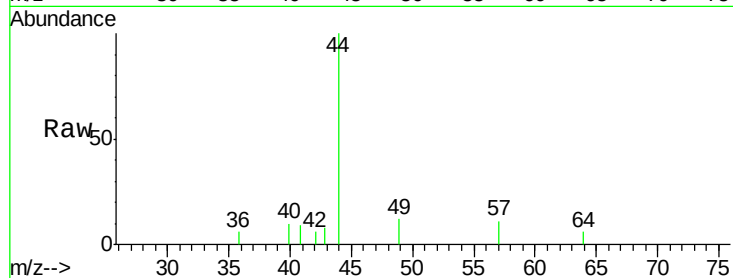
ClientSampleId :

Tot Ion: 64 Resp: 193

Ion Ratio Lower Upper

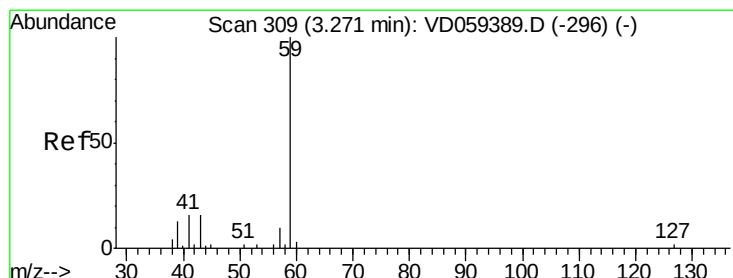
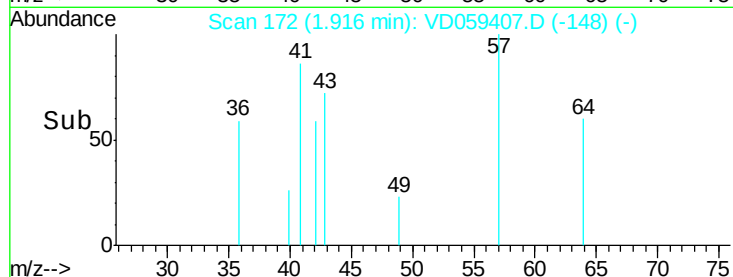
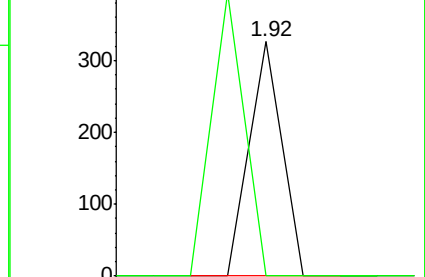
64 100

66 0.0 27.1 40.7#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#11

Tert butyl alcohol

Concen: 1.576 ug/l

RT: 3.26 min Scan# 309

Delta R.T. -0.01 min

Lab File: VD059407.D

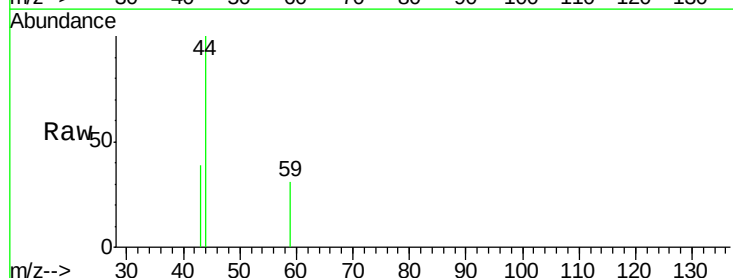
Acq: 25 Jun 2018 19:05

Tgt Ion: 59 Resp: 461

Ion Ratio Lower Upper

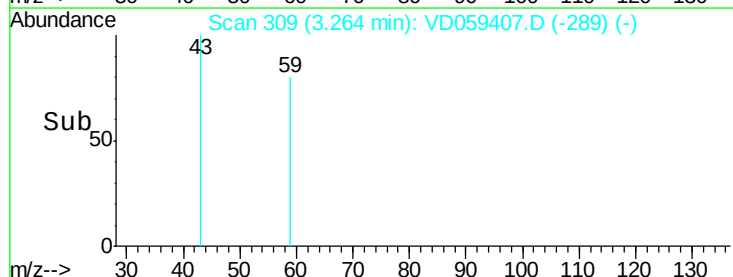
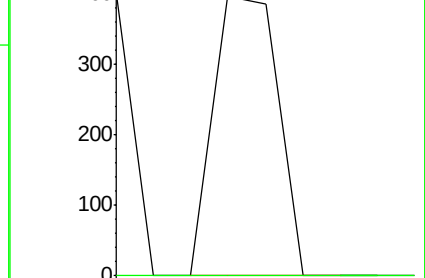
59 100

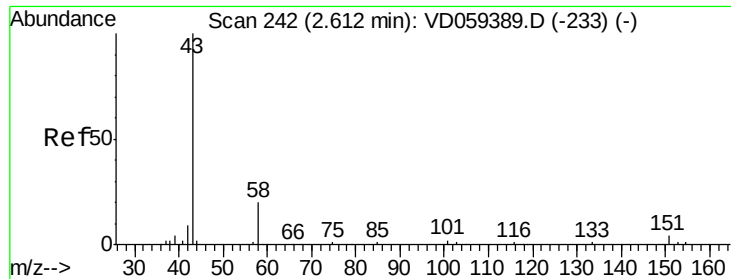
57 0.0 8.3 12.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 22.661 ug/l

RT: 2.59 min Scan# 241

Delta R.T. -0.02 min

Lab File: VD059407.D

Acq: 25 Jun 2018 19:05

Instrument :

MSVOA_D

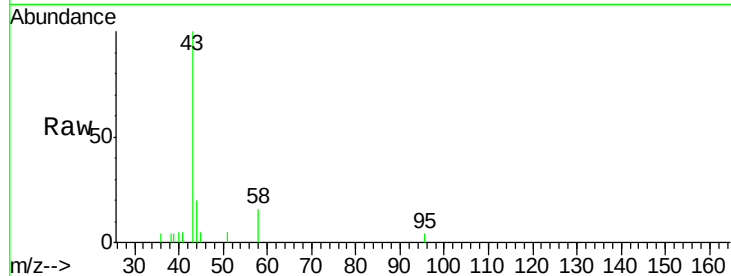
ClientSampleId :

Tot Ion: 43 Resp: 24187

Ion Ratio Lower Upper

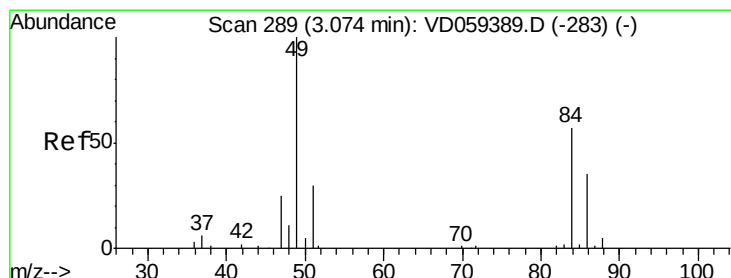
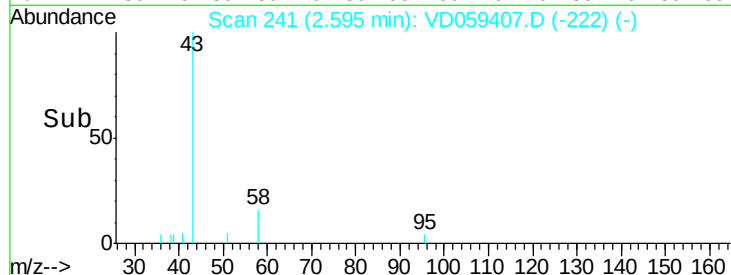
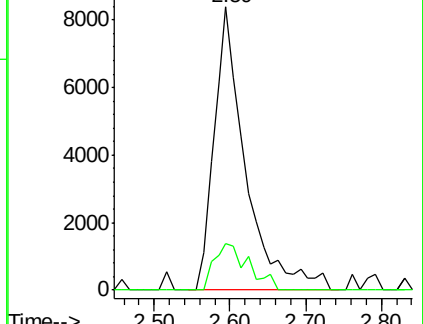
43 100

58 16.3 16.8 25.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 25.171 ug/l

RT: 3.05 min Scan# 287

Delta R.T. -0.03 min

Lab File: VD059407.D

Acq: 25 Jun 2018 19:05

Tgt Ion: 84 Resp: 78175

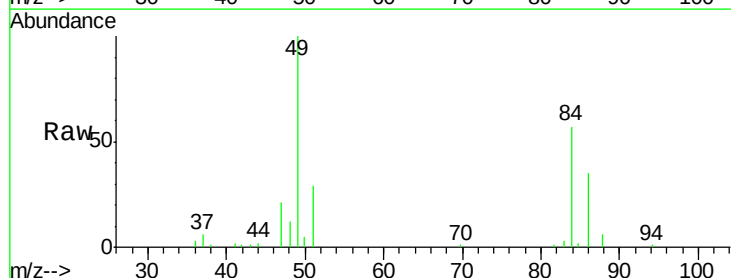
Ion Ratio Lower Upper

84 100

49 175.2 140.3 210.5

51 51.4 41.6 62.4

86 61.3 49.4 74.2

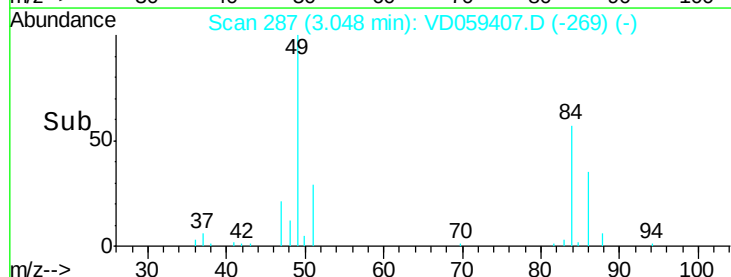
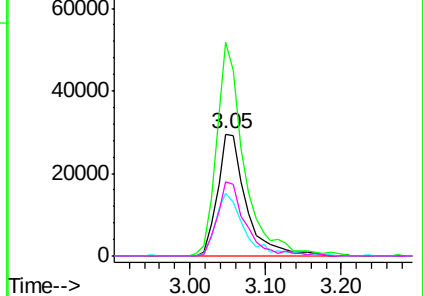


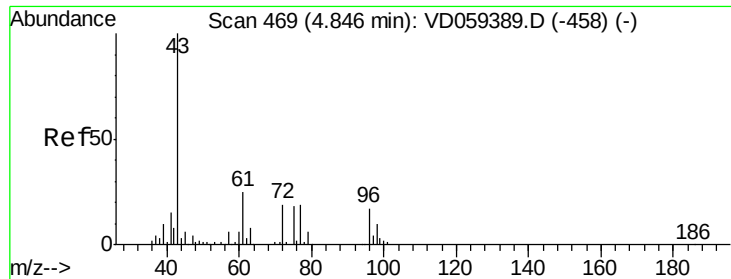
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.772 ug/l

RT: 4.85 min Scan# 470

Delta R.T. 0.00 min

Lab File: VD059407.D

Acq: 25 Jun 2018 19:05

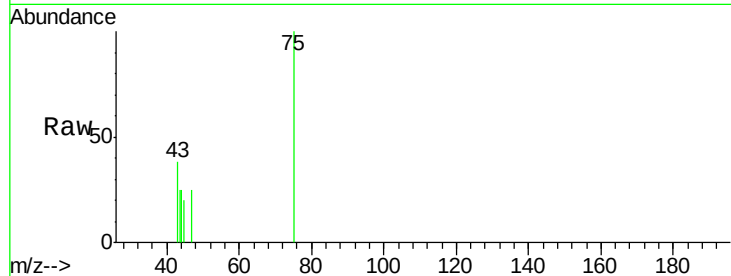
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 3963

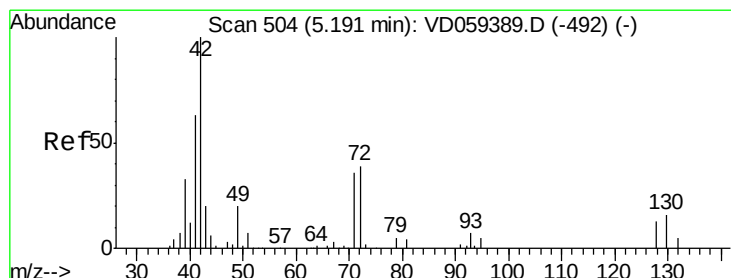
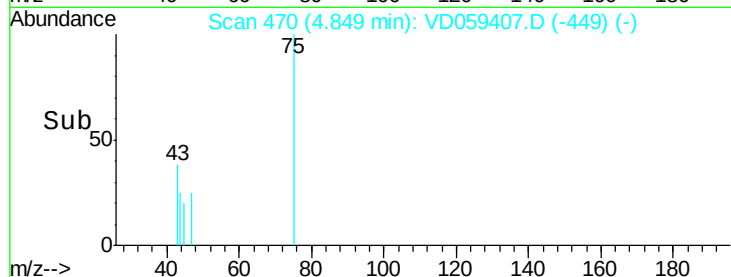
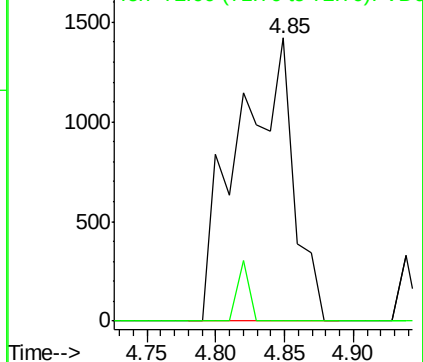
Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.048 ug/l

RT: 5.17 min Scan# 503

Delta R.T. -0.02 min

Lab File: VD059407.D

Acq: 25 Jun 2018 19:05

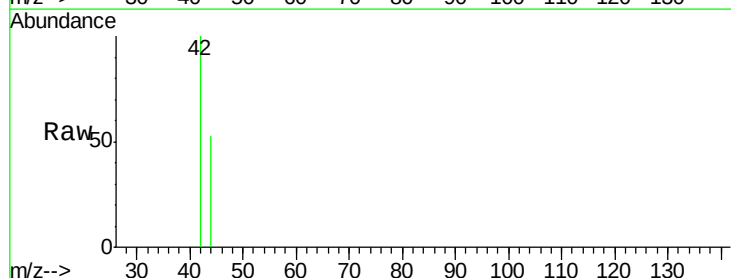
Tgt Ion: 42 Resp: 1282

Ion Ratio Lower Upper

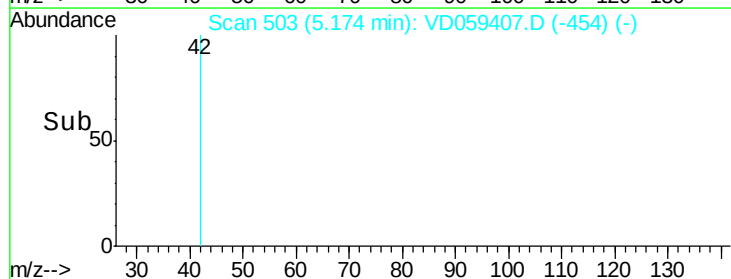
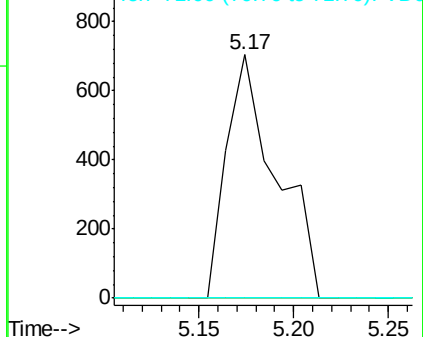
42 100

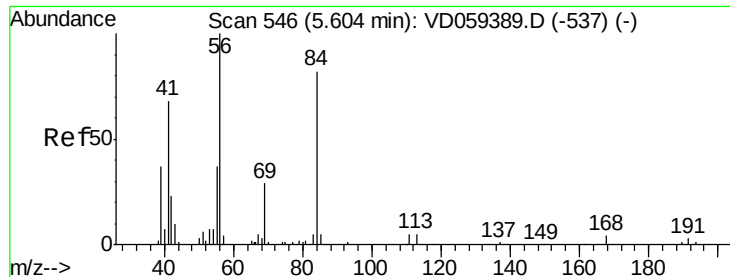
72 0.0 31.4 47.2#

71 0.0 29.7 44.5#



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

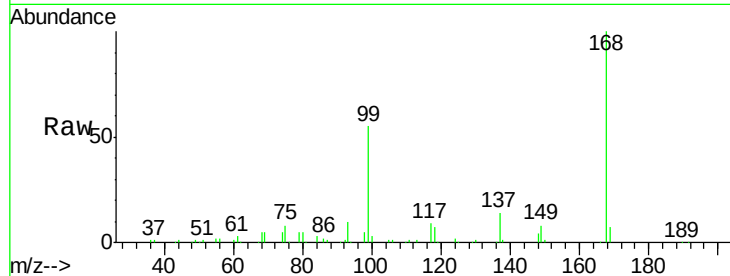




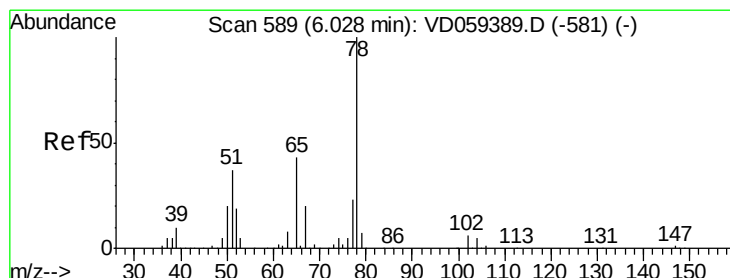
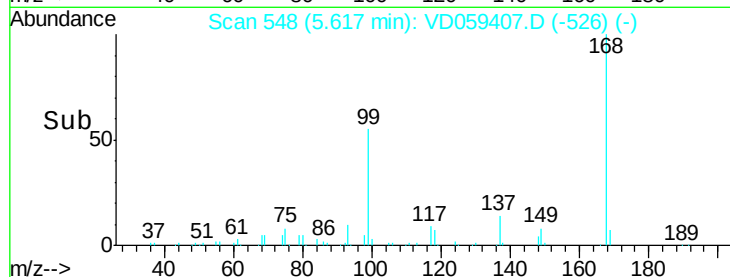
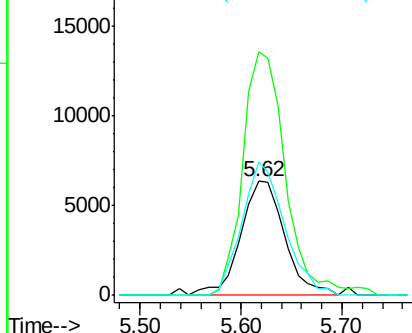
#31
Cyclohexane
Concen: Below Cal
RT: 5.62 min Scan# 548
Delta R.T. 0.01 min
Lab File: VD059407.D
Acq: 25 Jun 2018 19:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 19355
Ion Ratio Lower Upper
56 100
69 213.1 22.9 34.3#
84 116.9 67.3 100.9#

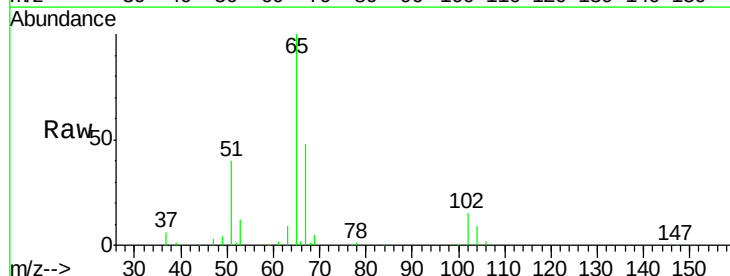


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

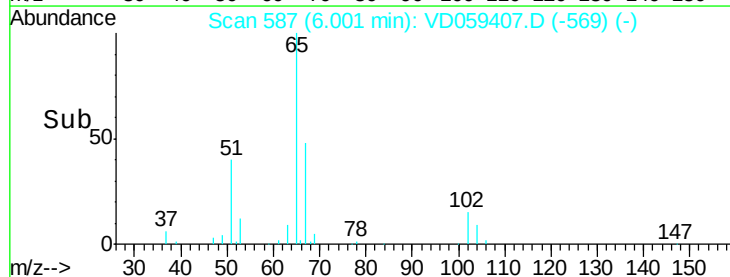
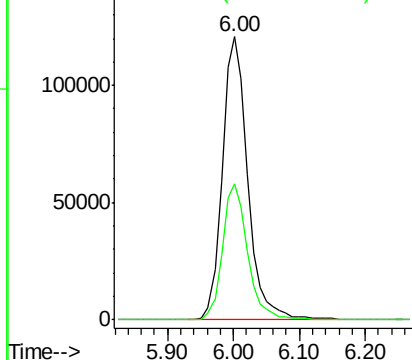


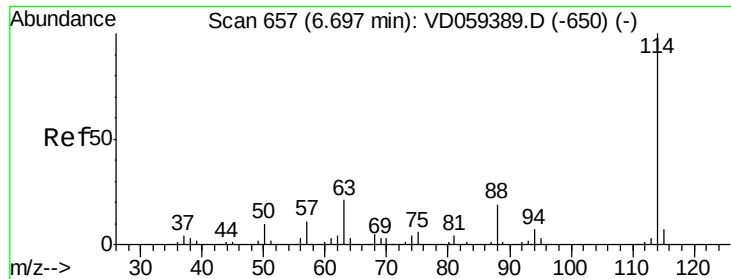
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.00 min Scan# 587
Delta R.T. -0.03 min
Lab File: VD059407.D
Acq: 25 Jun 2018 19:05

Tgt Ion: 65 Resp: 323977
Ion Ratio Lower Upper
65 100
67 48.3 0.0 93.8



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

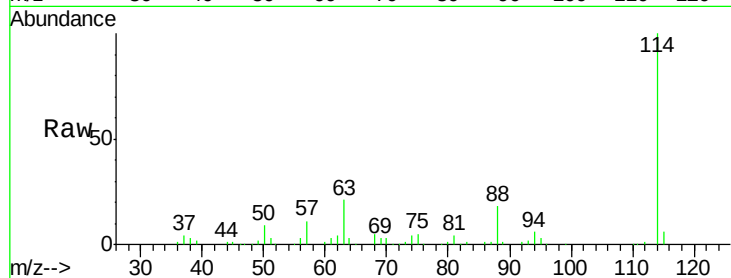




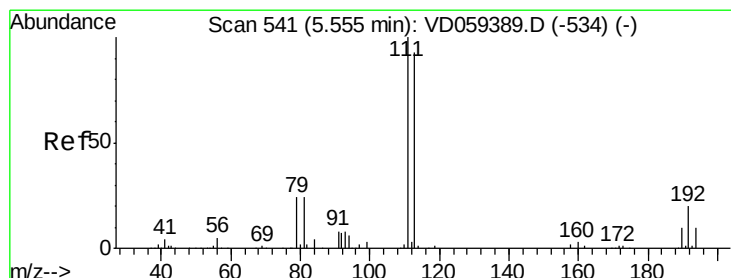
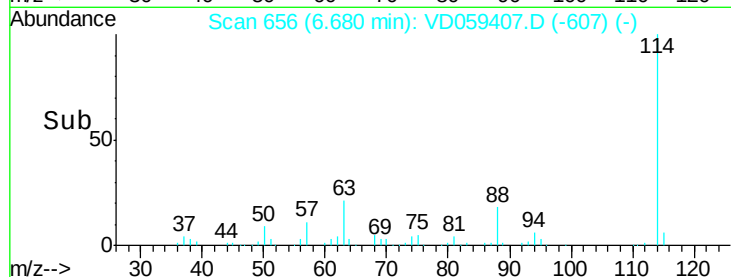
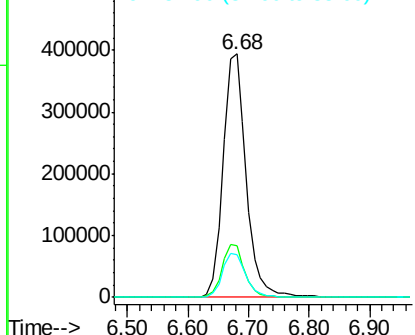
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD059407.D
 Acq: 25 Jun 2018 19:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 1041089
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 42.4
 88 17.6 0.0 38.0

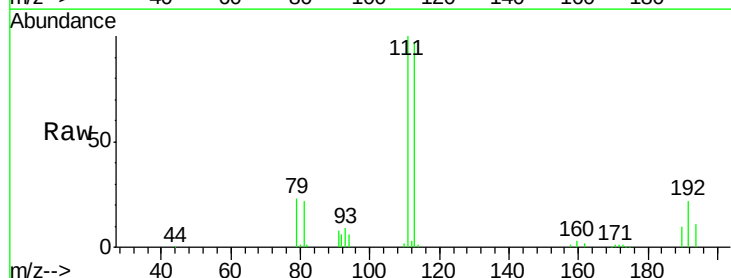


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC

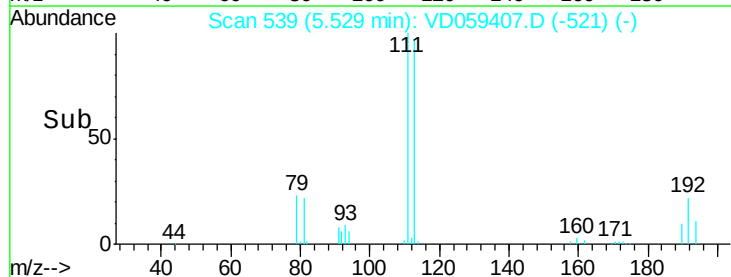
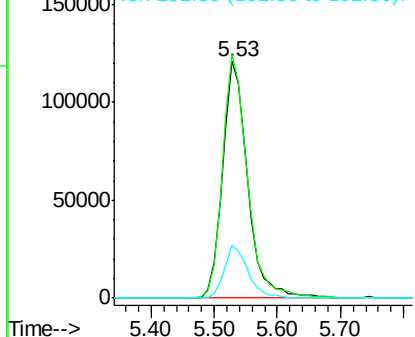


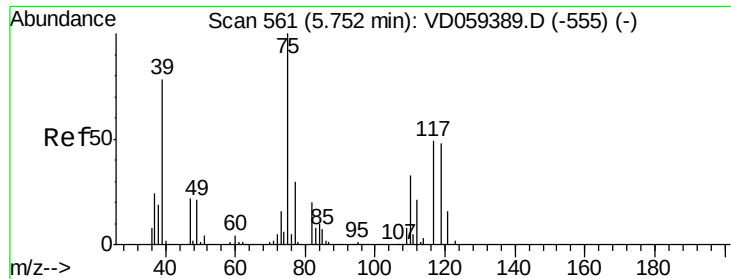
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.53 min Scan# 539
 Delta R.T. -0.03 min
 Lab File: VD059407.D
 Acq: 25 Jun 2018 19:05

Tgt Ion:113 Resp: 333397
 Ion Ratio Lower Upper
 113 100
 111 102.9 85.7 128.5
 192 22.5 16.9 25.3



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

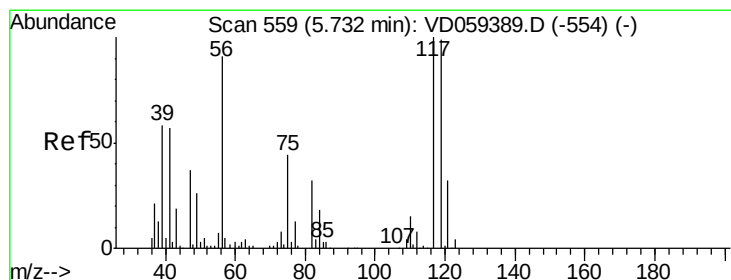
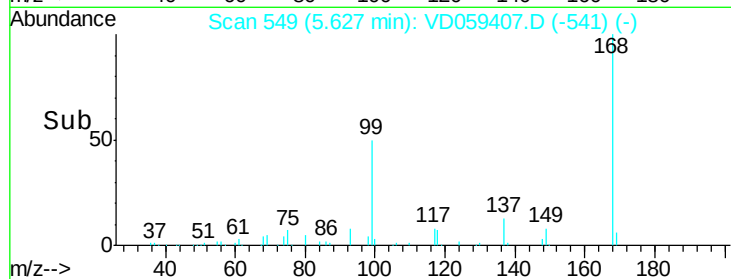
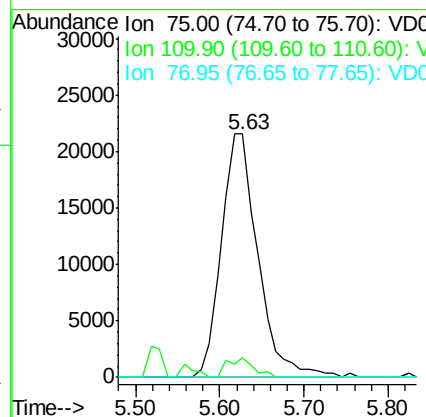
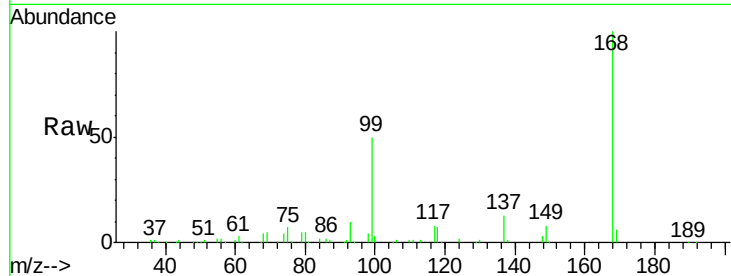




#36
 1,1-Dichloropropene
 Concen: 6.860 ug/l
 RT: 5.63 min Scan# 549
 Delta R.T. -0.13 min
 Lab File: VD059407.D
 Acq: 25 Jun 2018 19:05

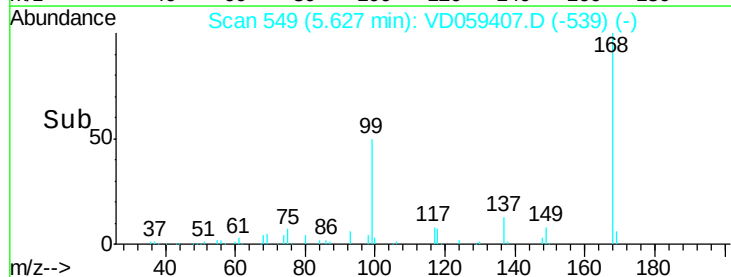
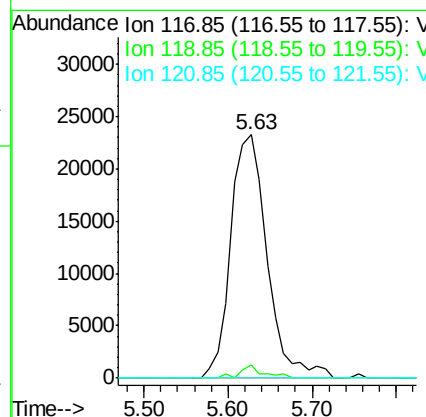
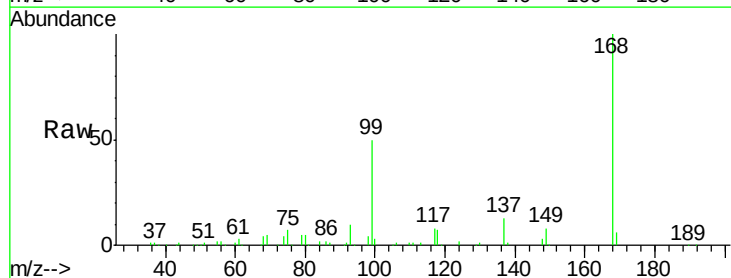
Instrument :
 MSVOA_D
 ClientSampled :

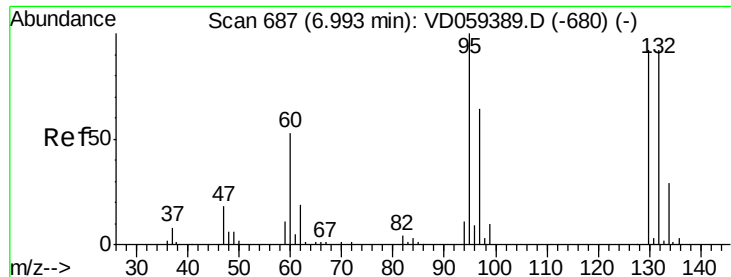
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.1	48.2#
77	0.0	23.4	35.2#



#38
 Carbon Tetrachloride
 Concen: 7.180 ug/l
 RT: 5.63 min Scan# 549
 Delta R.T. -0.11 min
 Lab File: VD059407.D
 Acq: 25 Jun 2018 19:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.6	115.0#
121	0.0	25.0	37.4#





#44

Trichloroethene

Concen: 63.544 ug/l

RT: 6.97 min Scan# 685

Delta R.T. -0.03 min

Lab File: VD059407.D

Acq: 25 Jun 2018 19:05

Instrument :

MSVOA_D

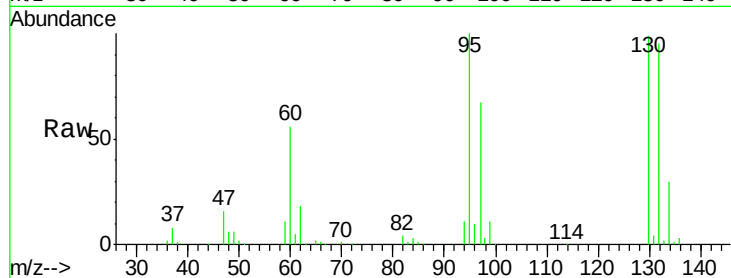
ClientSampled :

Tot Ion:130 Resp: 471536

Ion Ratio Lower Upper

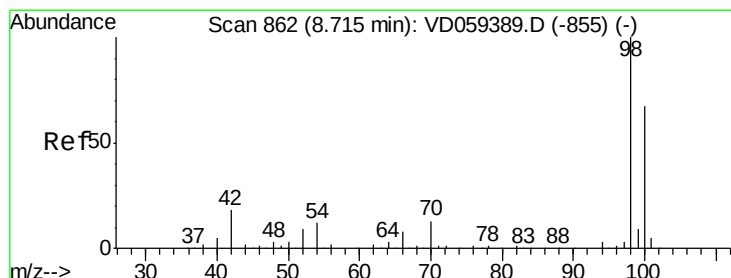
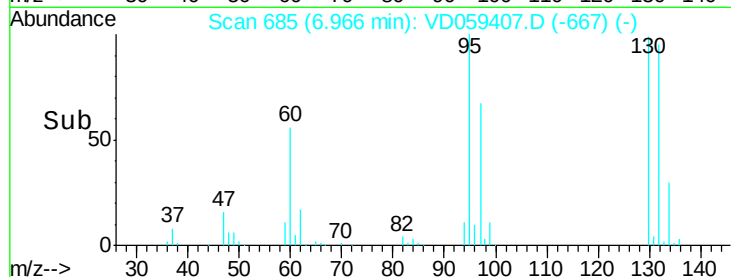
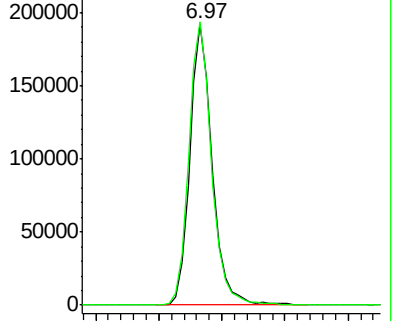
130 100

95 100.8 0.0 216.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.02 min

Lab File: VD059407.D

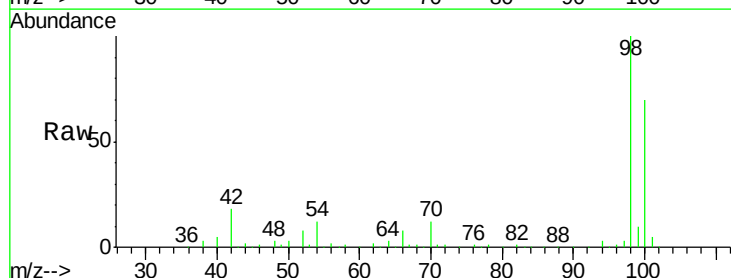
Acq: 25 Jun 2018 19:05

Tgt Ion: 98 Resp: 741806

Ion Ratio Lower Upper

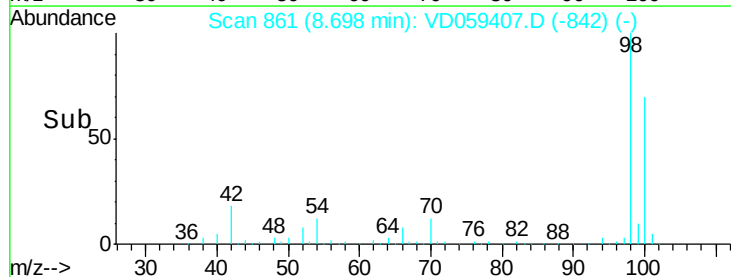
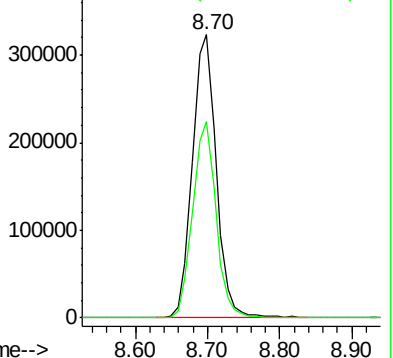
98 100

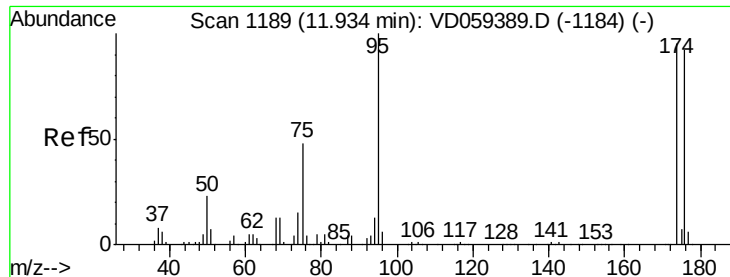
100 69.6 54.4 81.6



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

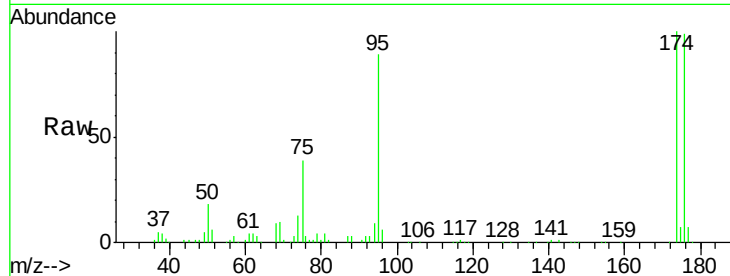




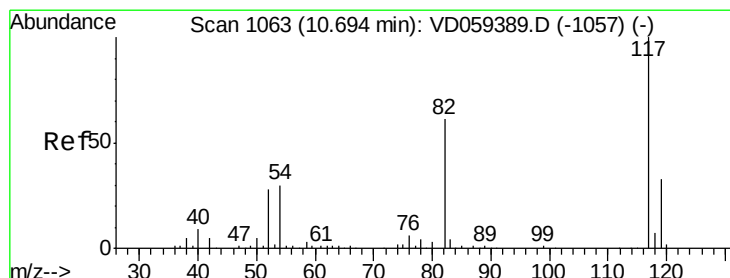
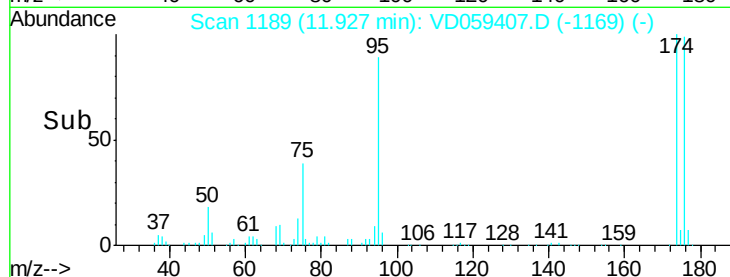
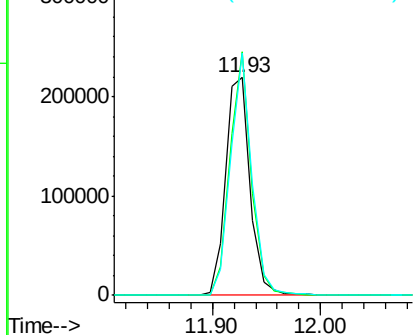
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. -0.01 min
Lab File: VD059407.D
Acq: 25 Jun 2018 19:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 344382
Ion Ratio Lower Upper
95 100
174 111.8 0.0 190.4
176 111.1 0.0 183.2

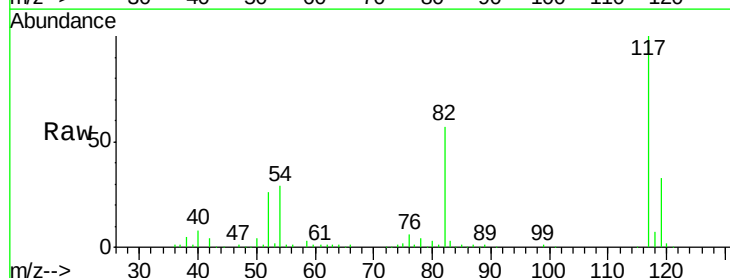


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

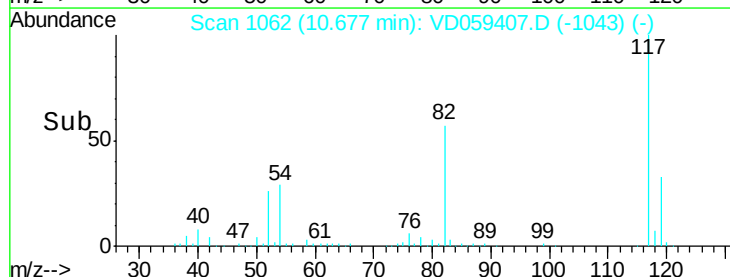
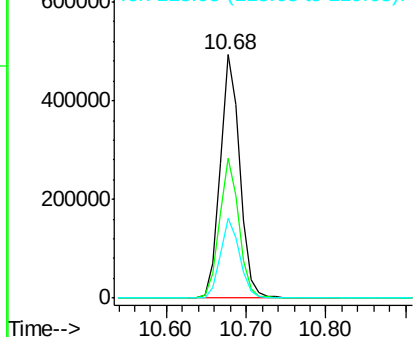


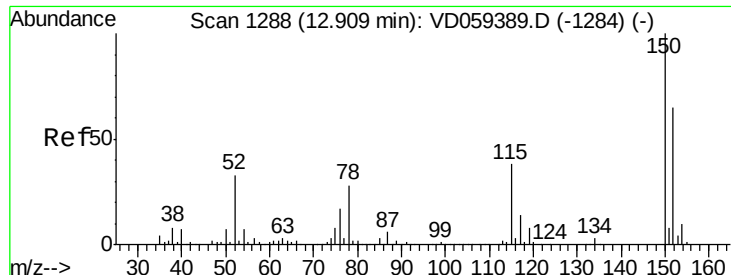
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.02 min
Lab File: VD059407.D
Acq: 25 Jun 2018 19:05

Tgt Ion: 117 Resp: 859627
Ion Ratio Lower Upper
117 100
82 57.4 49.0 73.6
119 32.8 26.2 39.4



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: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD059407.D

Acq: 25 Jun 2018 19:05

Instrument :

MSVOA_D

ClientSampleId :

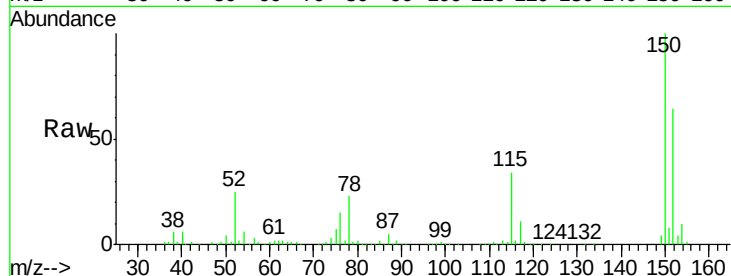
Tot Ion:152 Resp: 464241

Ion Ratio Lower Upper

152 100

115 53.8 29.4 88.3

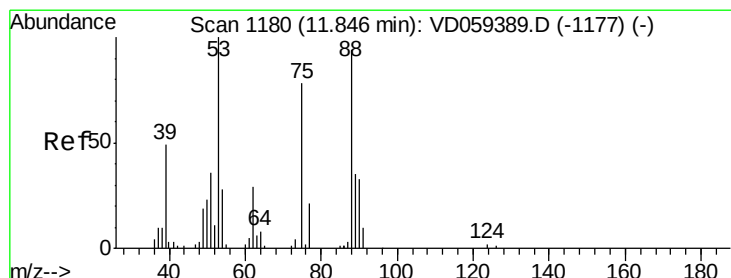
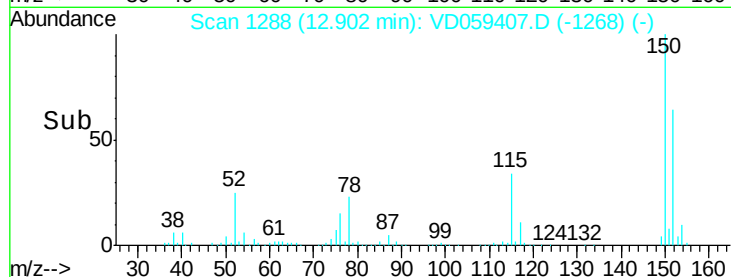
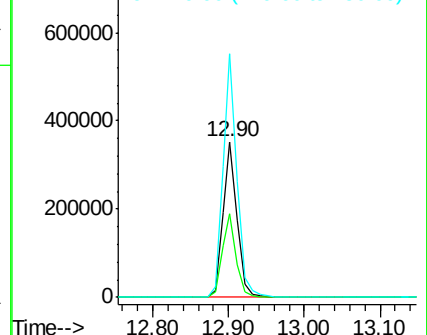
150 156.6 0.0 308.2



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



#81

trans-1,4-Dichloro-2-butene

Concen: 108.932 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.07 min

Lab File: VD059407.D

Acq: 25 Jun 2018 19:05

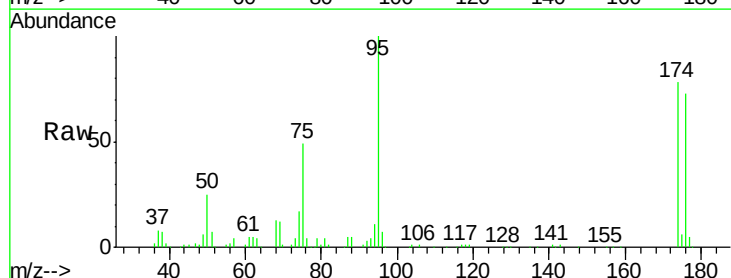
Tgt Ion: 75 Resp: 158545

Ion Ratio Lower Upper

75 100

53 0.0 102.6 154.0#

89 0.0 35.9 53.9#



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

