

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080619\
 Data File : VD063407.D
 Acq On : 6 Aug 2019 19:00
 Operator : JC/SY
 Sample : K4178-01
 Misc : 4.70g/5ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 370-371

Quant Time: Aug 07 06:43:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	969445	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.24	114	1257656	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.39	117	848165	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.55	152	286196	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	439484	40.86	ug/l	0.03
Spiked Amount			Recovery	=	81.72%	
35) Dibromofluoromethane	6.94	113	482076	44.90	ug/l	0.03
Spiked Amount			Recovery	=	89.80%	
50) Toluene-d8	10.43	98	908902	37.82	ug/l	0.03
Spiked Amount			Recovery	=	75.64%	
62) 4-Bromofluorobenzene	13.58	95	287654	26.27	ug/l	0.03
Spiked Amount			Recovery	=	52.54%	

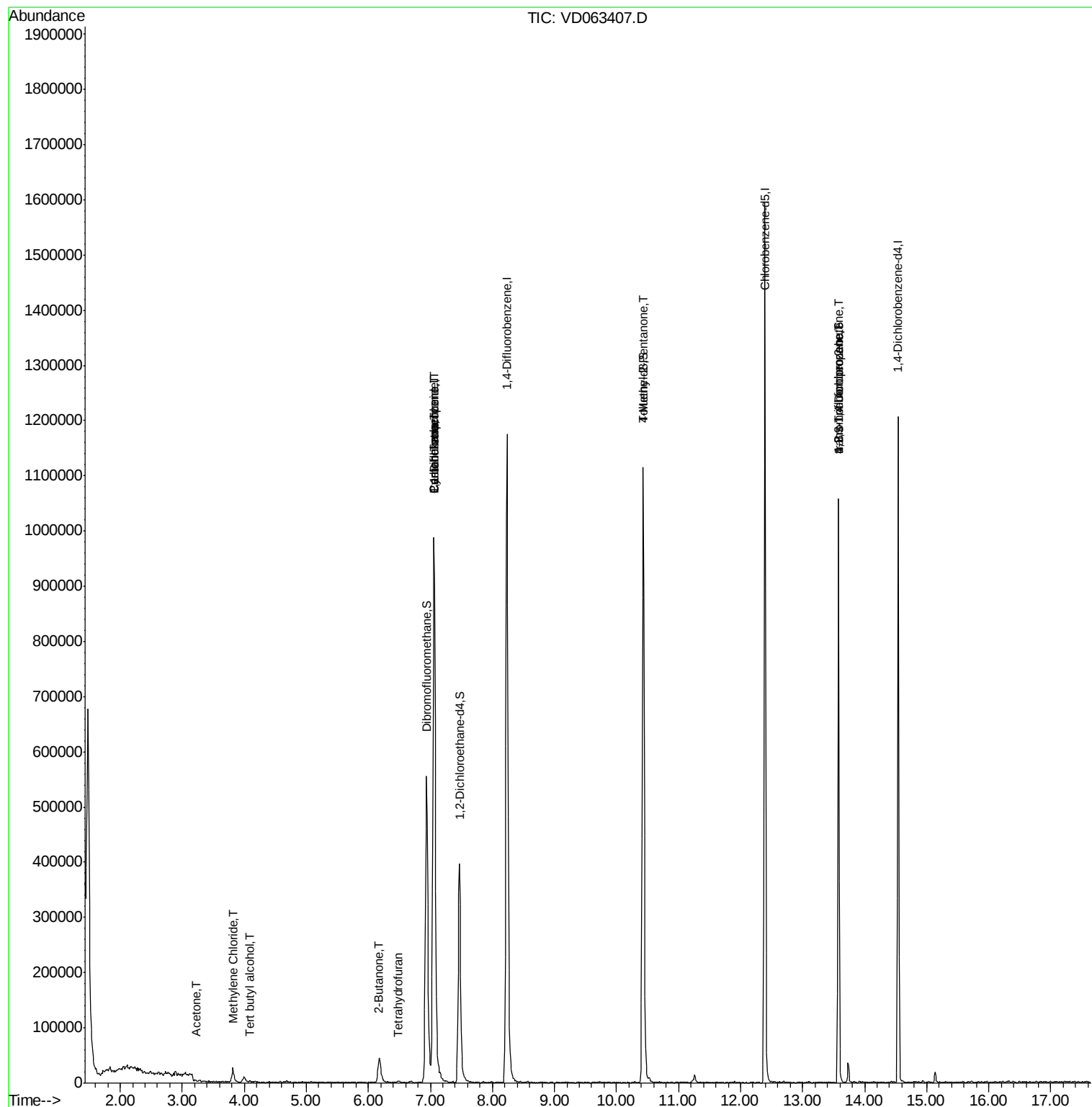
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.09	59	1017	2.154	ug/l #	69
16) Acetone	3.23	43	2114	1.009	ug/l #	62
20) Methylene Chloride	3.82	84	12507	1.476	ug/l #	92
25) 2-Butanone	6.17	43	3328	1.582	ug/l	99
29) Tetrahydrofuran	6.48	42	1024	1.028	ug/l #	80
31) Cyclohexane	7.06	56	19760	2.062	ug/l #	7
36) 1,1-Dichloropropene	7.06	75	74674	6.506	ug/l #	55
38) Carbon Tetrachloride	7.06	117	97782	5.659	ug/l #	14
51) 4-Methyl-2-Pentanone	10.42	43	5335	1.191	ug/l #	1
76) 1,2,3-Trichloropropane	13.58	75	126272	36.733	ug/l #	46
81) trans-1,4-Dichloro-2-buten	13.58	75	126662	132.693	ug/l #	3

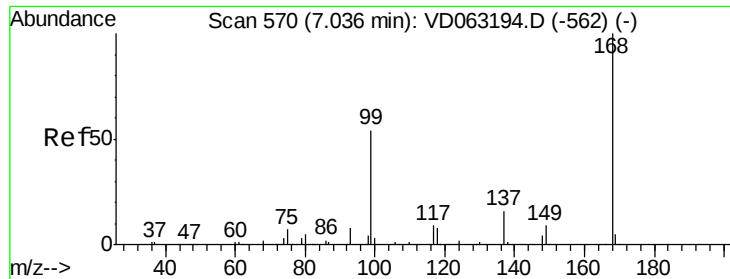
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD080619\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

Instrument :

MSVOA_D

ClientSampleId :

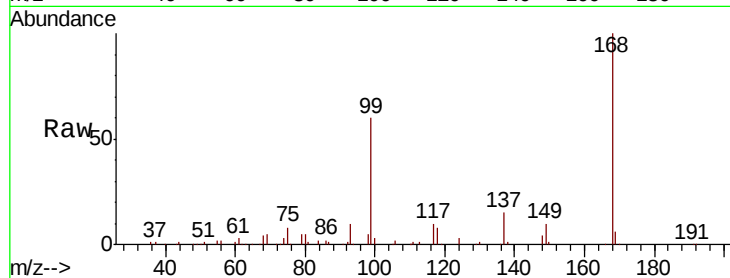
370-371

Tgt Ion:168 Resp: 969445

Ion Ratio Lower Upper

168 100

99 60.4 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

400000

300000

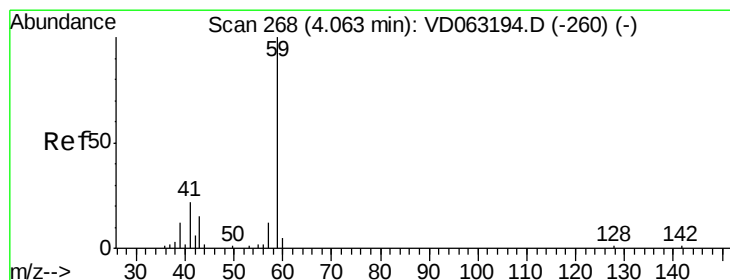
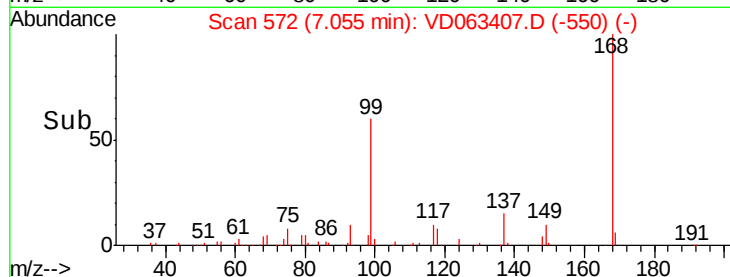
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 2.154 ug/l

RT: 4.09 min Scan# 271

Delta R.T. 0.03 min

Lab File: VD063407.D

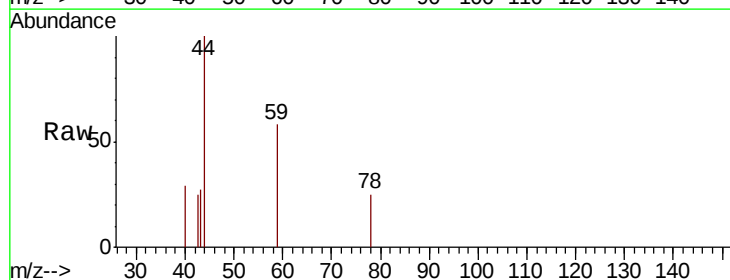
Acq: 6 Aug 2019 19:00

Tgt Ion: 59 Resp: 1017

Ion Ratio Lower Upper

59 100

57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.09

1000

800

600

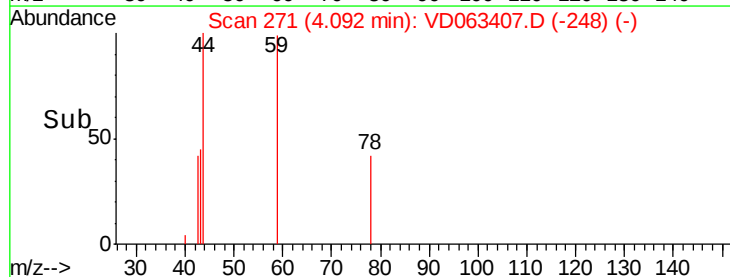
400

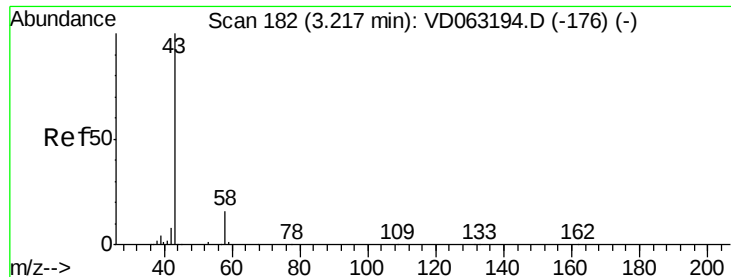
200

0

Time-->

4.06 4.08 4.10 4.12





#16

Acetone

Concen: 1.009 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

Instrument :

MSVOA_D

ClientSampleId :

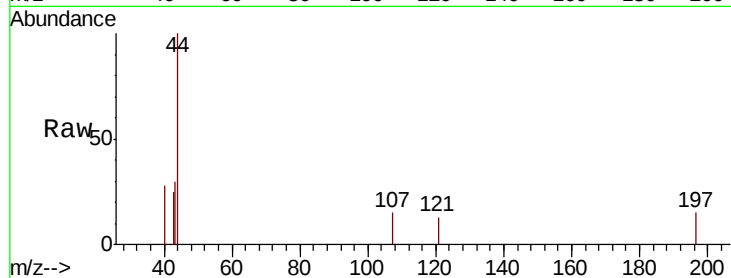
370-371

Tgt Ion: 43 Resp: 2114

Ion Ratio Lower Upper

43 100

58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

1500

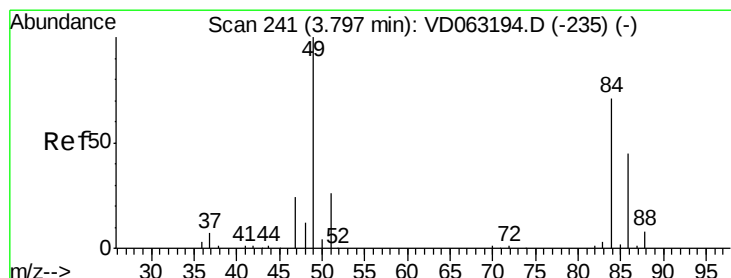
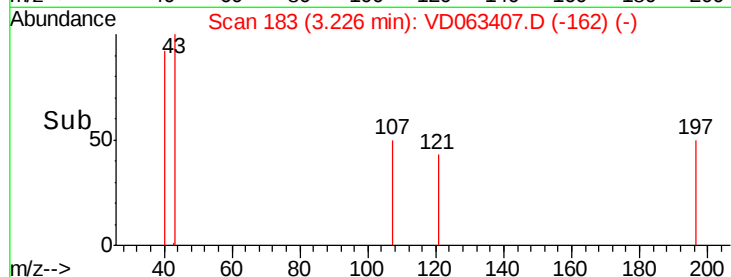
1000

500

0

Time--> 3.15 3.20 3.25

3.23



#20

Methylene Chloride

Concen: 1.476 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

Tgt Ion: 84 Resp: 12507

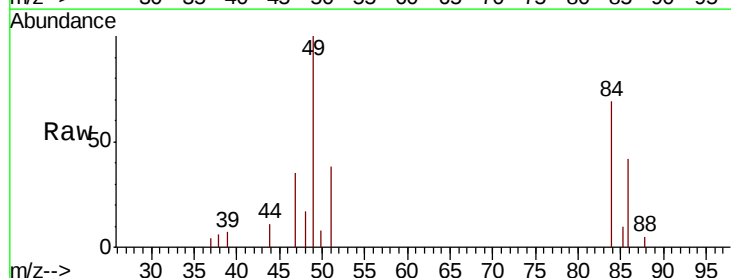
Ion Ratio Lower Upper

84 100

49 145.9 112.5 168.7

51 56.0 29.6 44.4#

86 60.6 50.4 75.6



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

12000

10000

8000

6000

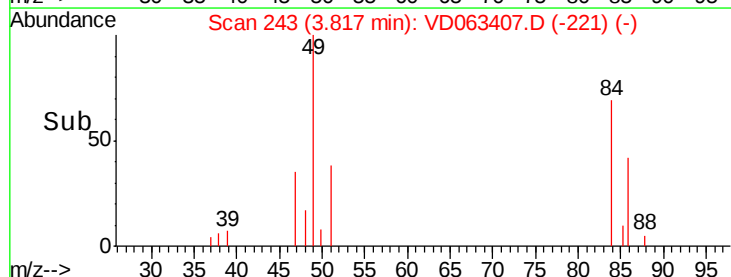
4000

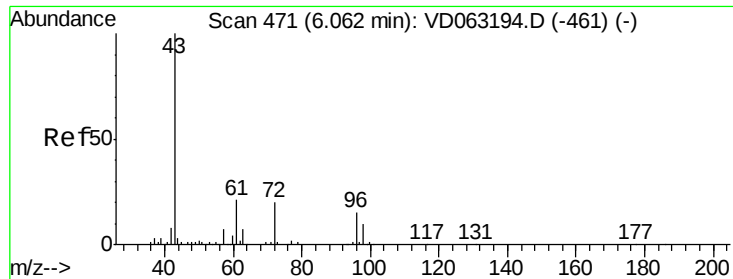
2000

0

Time--> 3.70 3.75 3.80 3.85 3.90

3.82

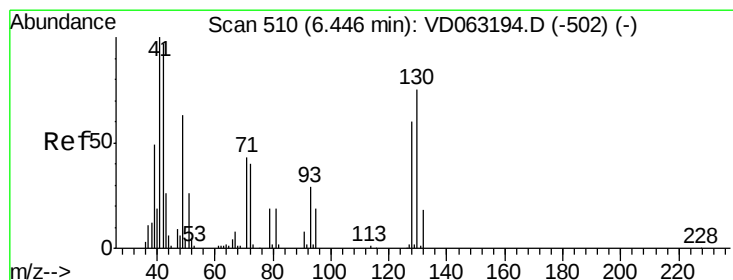
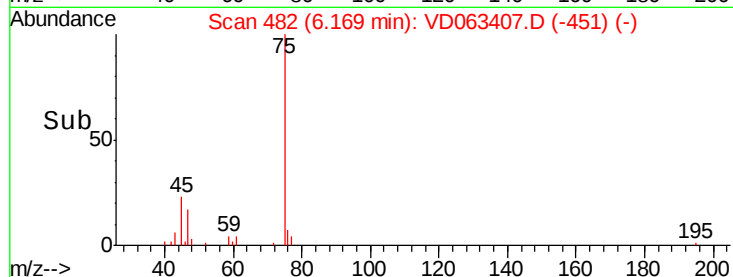
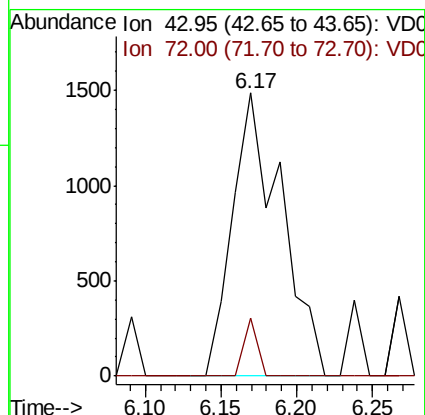
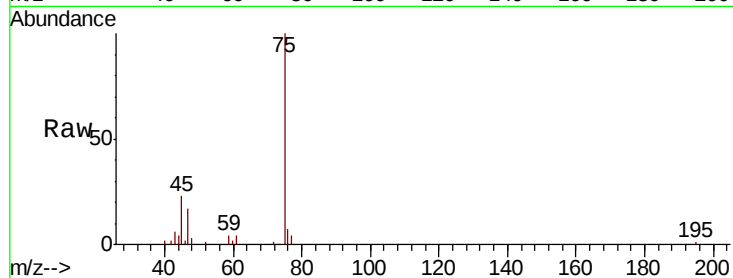




#25
2-Butanone
Concen: 1.582 ug/l
RT: 6.17 min Scan# 482
Delta R.T. 0.11 min
Lab File: VD063407.D
Acq: 6 Aug 2019 19:00

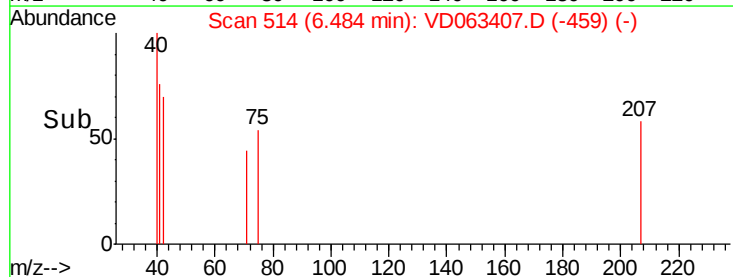
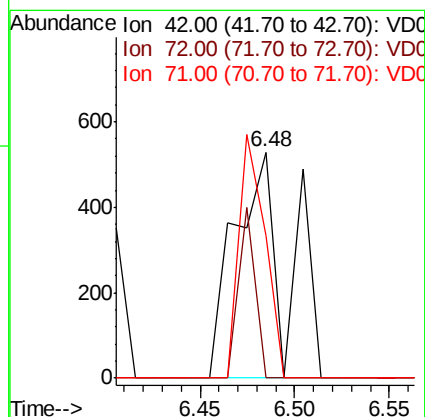
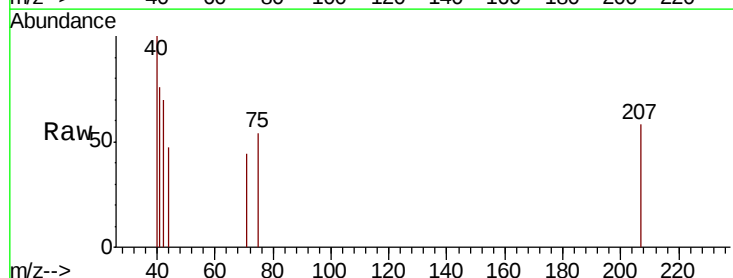
Instrument :
MSVOA_D
ClientSampleId :
370-371

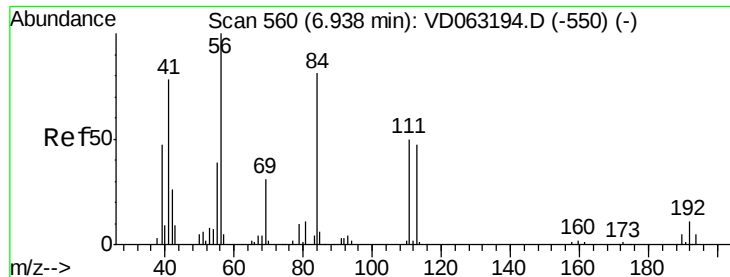
Tgt Ion: 43 Resp: 3328
Ion Ratio Lower Upper
43 100
72 20.7 16.3 24.5



#29
Tetrahydrofuran
Concen: 1.028 ug/l
RT: 6.48 min Scan# 514
Delta R.T. 0.04 min
Lab File: VD063407.D
Acq: 6 Aug 2019 19:00

Tgt Ion: 42 Resp: 1024
Ion Ratio Lower Upper
42 100
72 23.0 33.4 50.2#
71 52.1 35.7 53.5





#31

Cyclohexane

Concen: 2.062 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

Instrument :

MSVOA_D

ClientSampleId :

370-371

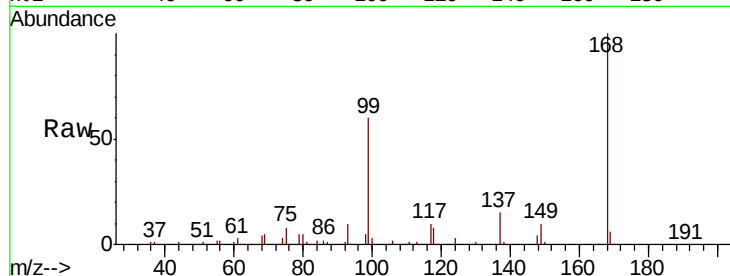
Tgt Ion: 56 Resp: 19760

Ion Ratio Lower Upper

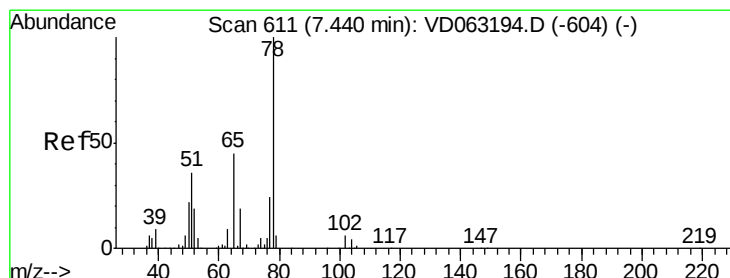
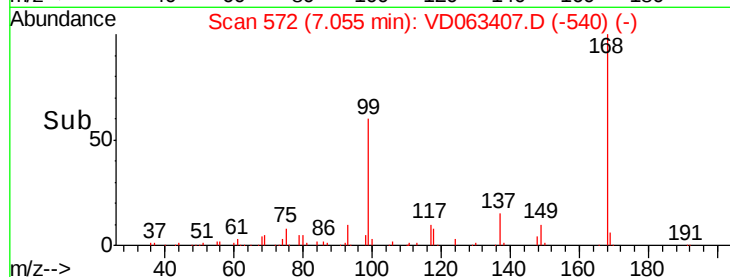
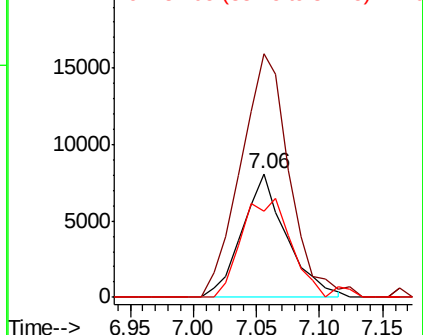
56 100

69 196.5 24.5 36.7#

84 69.5 64.9 97.3



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: 40.856 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.03 min

Lab File: VD063407.D

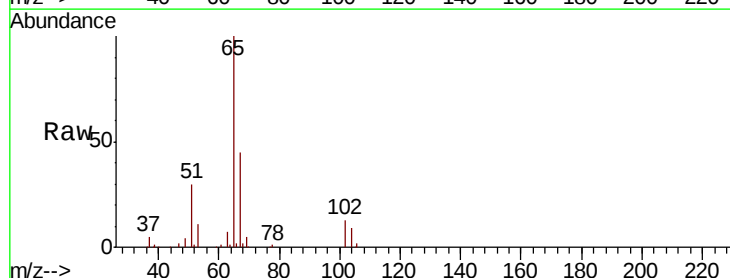
Acq: 6 Aug 2019 19:00

Tgt Ion: 65 Resp: 439484

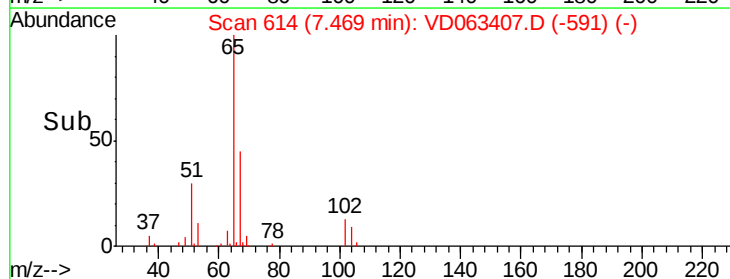
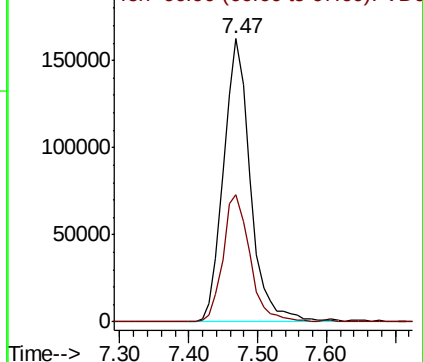
Ion Ratio Lower Upper

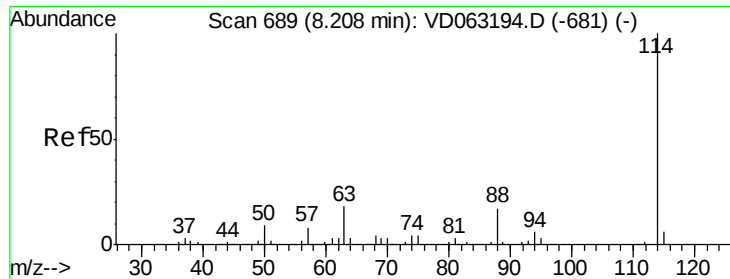
65 100

67 45.0 0.0 85.8



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

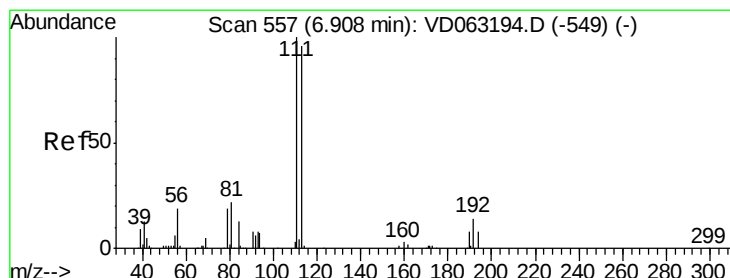
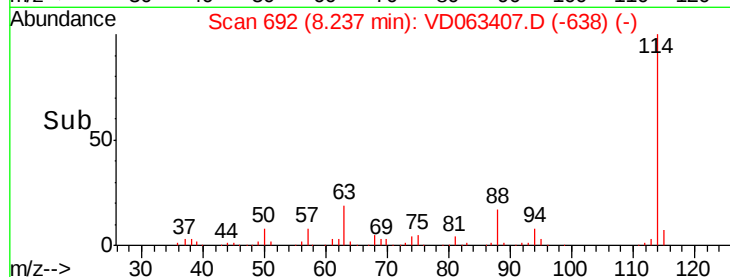
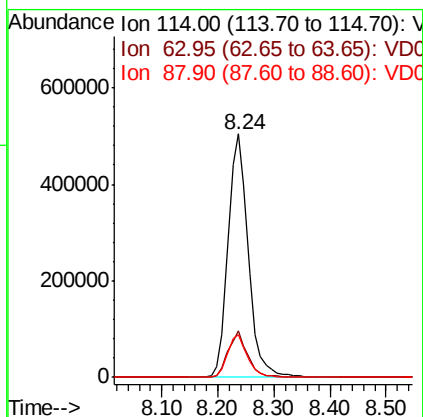
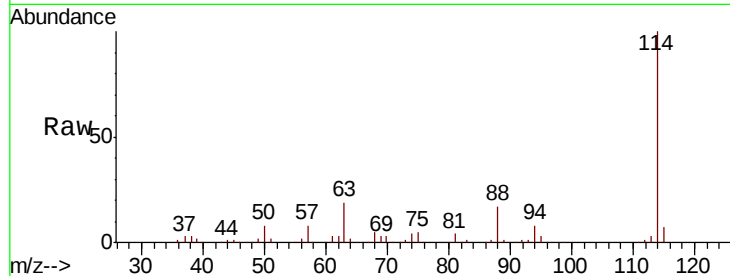




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.03 min
 Lab File: VD063407.D
 Acq: 6 Aug 2019 19:00

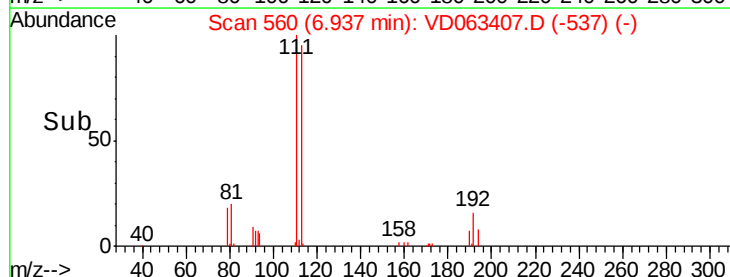
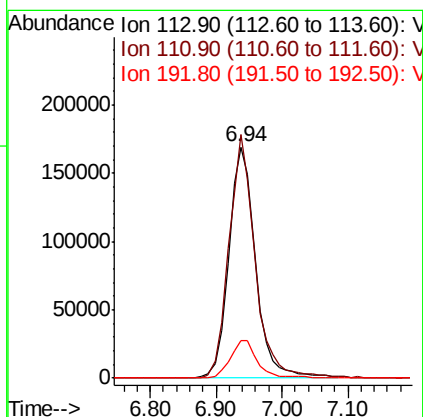
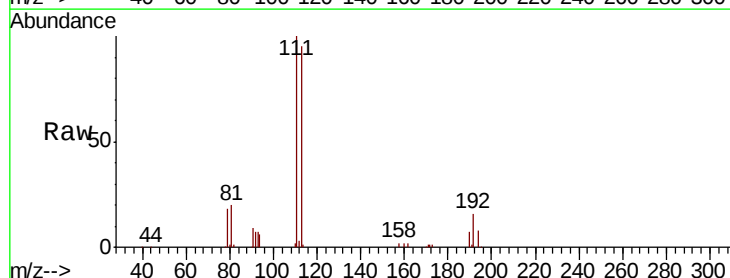
Instrument :
 MSVOA_D
 ClientSampleId :
 370-371

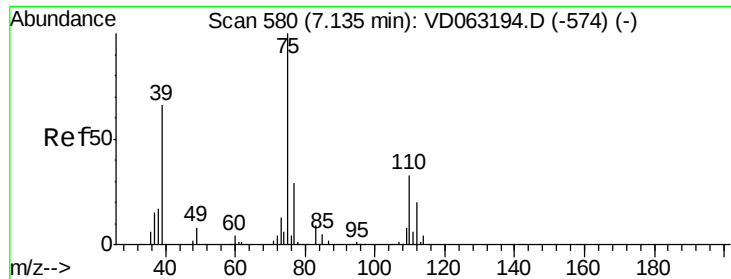
Tgt Ion:114 Resp: 1257656
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 35.2
 88 17.3 0.0 34.6



#35
 Dibromofluoromethane
 Concen: 44.896 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.03 min
 Lab File: VD063407.D
 Acq: 6 Aug 2019 19:00

Tgt Ion:113 Resp: 482076
 Ion Ratio Lower Upper
 113 100
 111 105.3 83.2 124.8
 192 16.4 11.8 17.8





#36

1,1-Dichloropropene

Concen: 6.506 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.08 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

Instrument :

MSVOA_D

ClientSampleId :

370-371

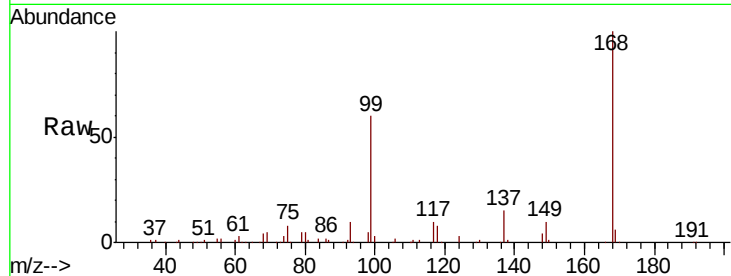
Tgt Ion: 75 Resp: 74674

Ion Ratio Lower Upper

75 100

110 11.7 16.1 48.2#

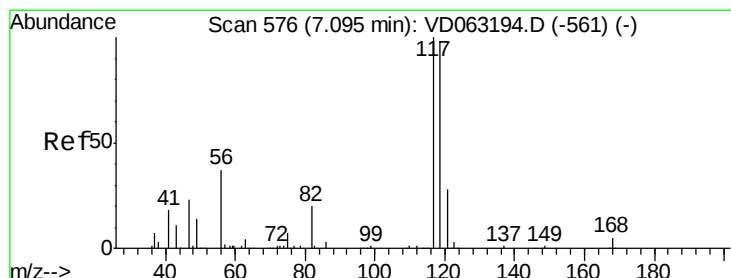
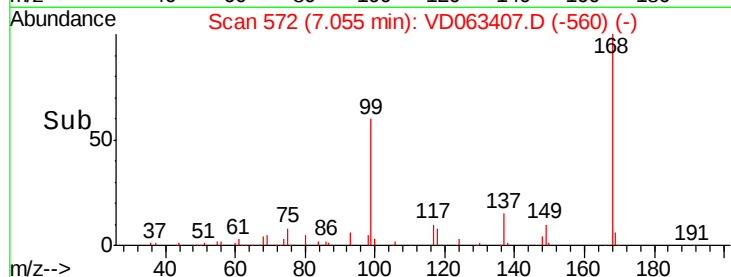
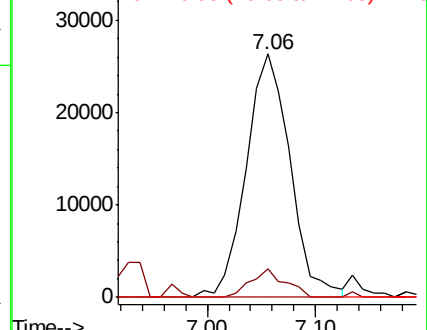
77 0.0 22.7 34.1#



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



#38

Carbon Tetrachloride

Concen: 5.659 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

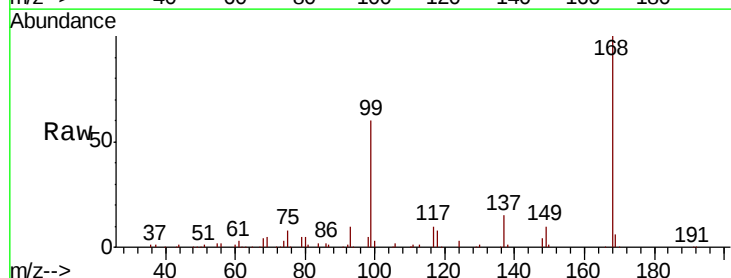
Tgt Ion: 117 Resp: 97782

Ion Ratio Lower Upper

117 100

119 4.1 78.2 117.2#

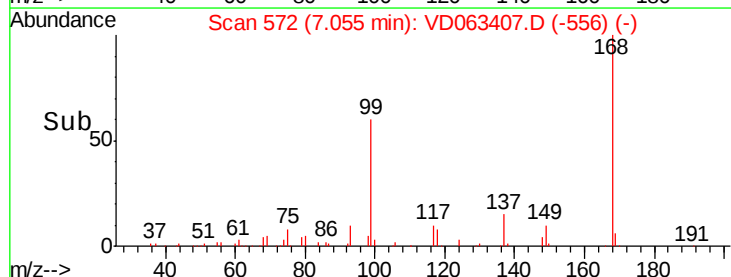
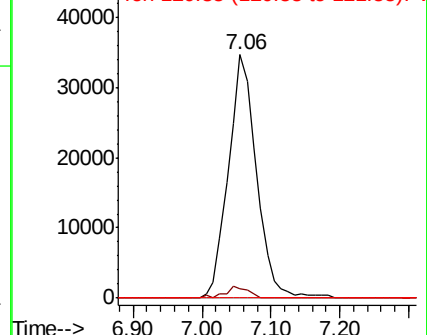
121 0.0 22.1 33.1#

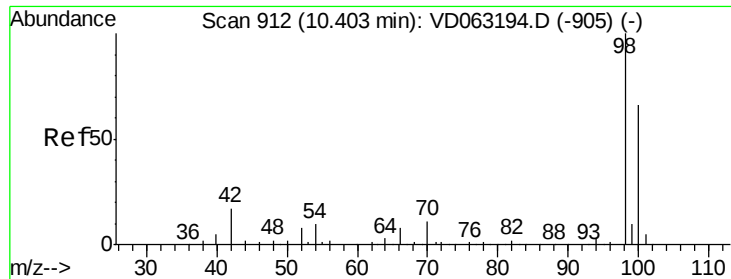


Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 118.85 (118.55 to 119.55): VDC

Ion 120.85 (120.55 to 121.55): VDC

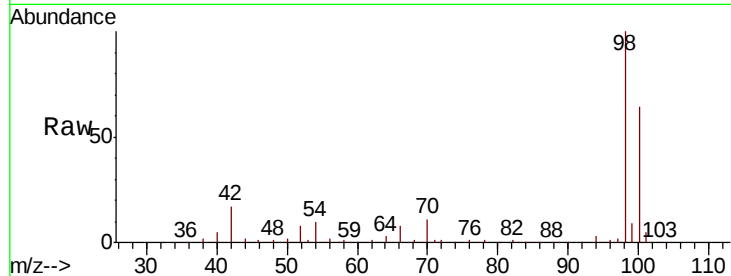




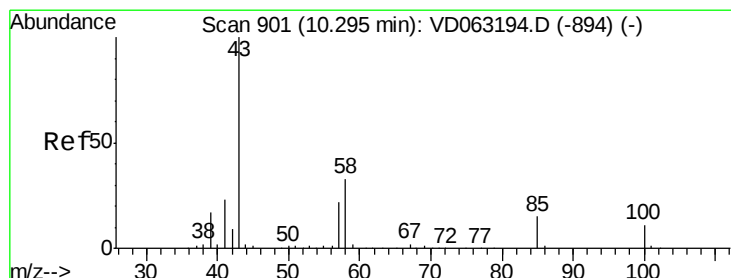
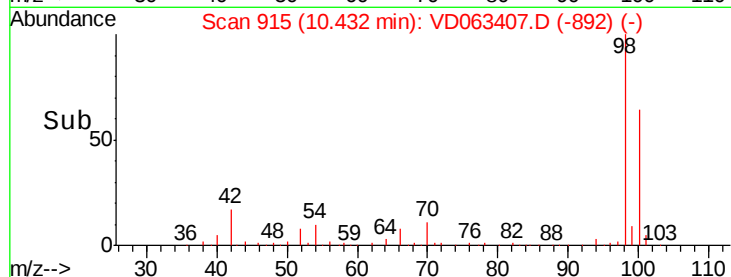
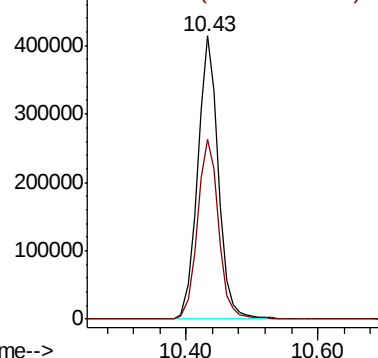
#50
Toluene-d8
Concen: 37.822 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD063407.D
Acq: 6 Aug 2019 19:00

Instrument :
MSVOA_D
ClientSampleId :
370-371

Tgt Ion: 98 Resp: 908902
Ion Ratio Lower Upper
98 100
100 63.6 53.2 79.8

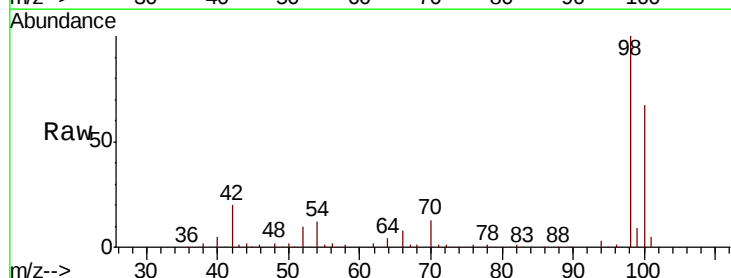


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

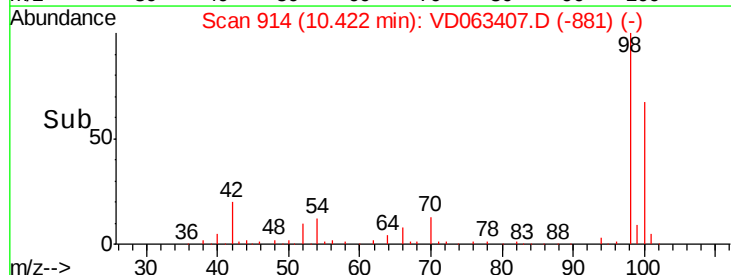
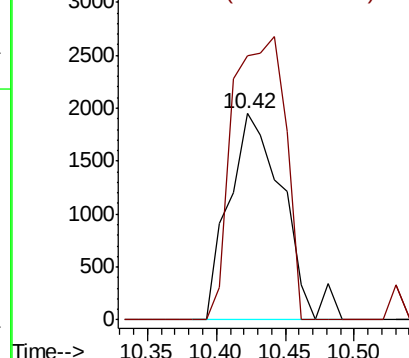


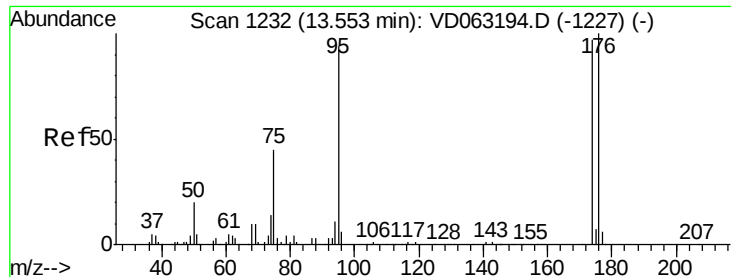
#51
4-Methyl-2-Pentanone
Concen: 1.191 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.13 min
Lab File: VD063407.D
Acq: 6 Aug 2019 19:00

Tgt Ion: 43 Resp: 5335
Ion Ratio Lower Upper
43 100
58 128.3 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 26.268 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. 0.03 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

Instrument :

MSVOA_D

ClientSampled :

370-371

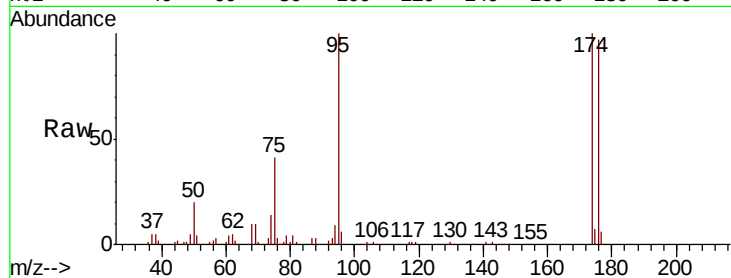
Tgt Ion: 95 Resp: 287654

Ion Ratio Lower Upper

95 100

174 99.8 0.0 205.4

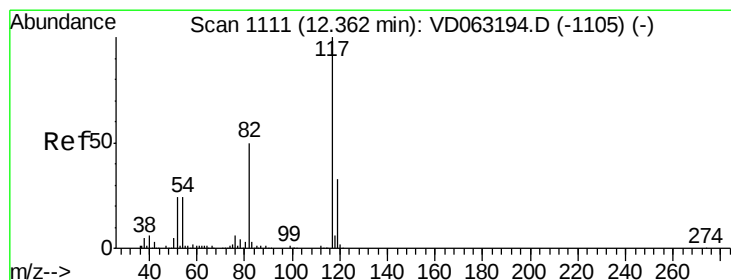
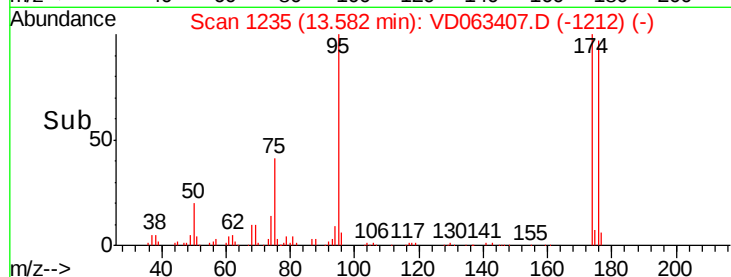
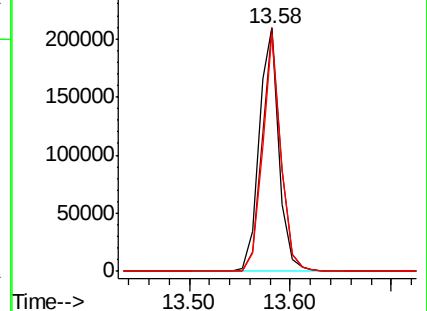
176 97.3 0.0 211.8



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: 12.39 min Scan# 1114

Delta R.T. 0.03 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

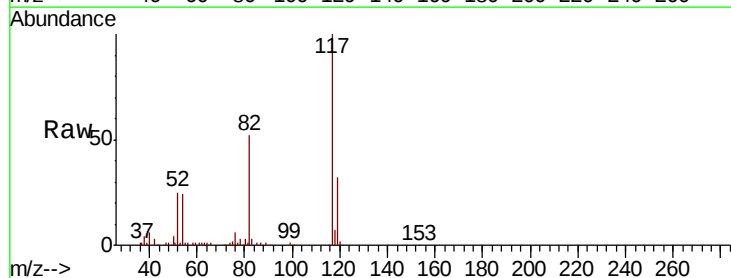
Tgt Ion: 117 Resp: 848165

Ion Ratio Lower Upper

117 100

82 51.9 40.1 60.1

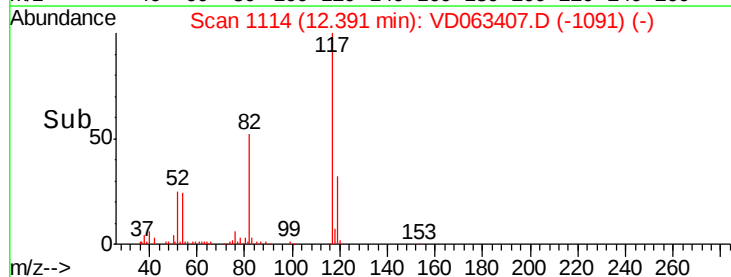
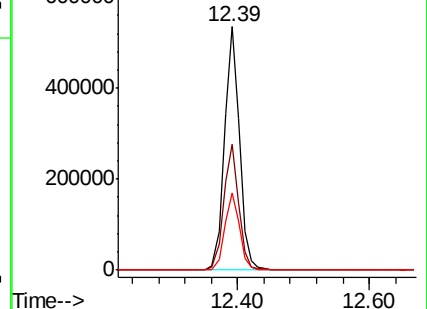
119 31.6 26.5 39.7

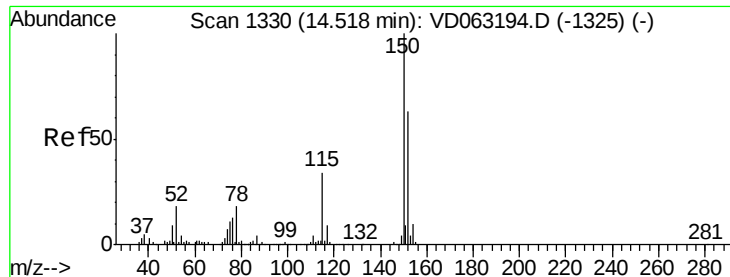


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.55 min Scan# 1333

Delta R.T. 0.03 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

Instrument :

MSVOA_D

ClientSampleId :

370-371

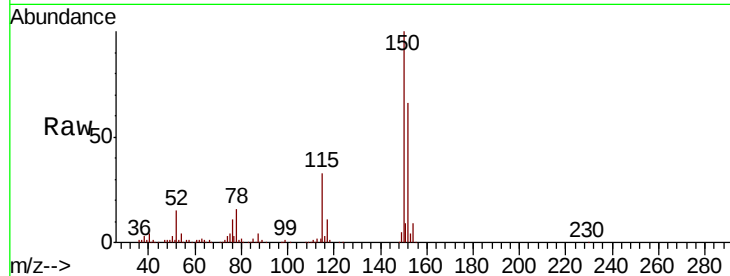
Tgt Ion:152 Resp: 286196

Ion Ratio Lower Upper

152 100

115 49.9 27.5 82.4

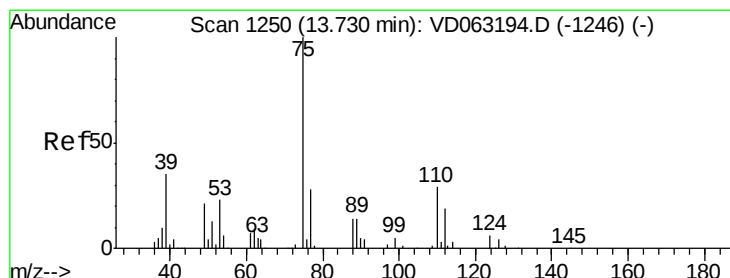
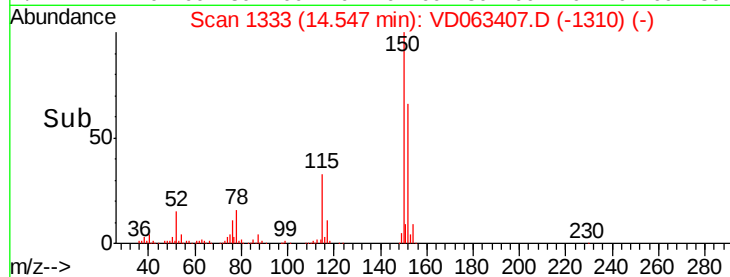
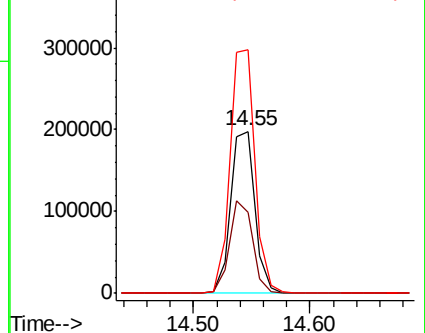
150 150.4 0.0 320.6



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: 36.733 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. -0.15 min

Lab File: VD063407.D

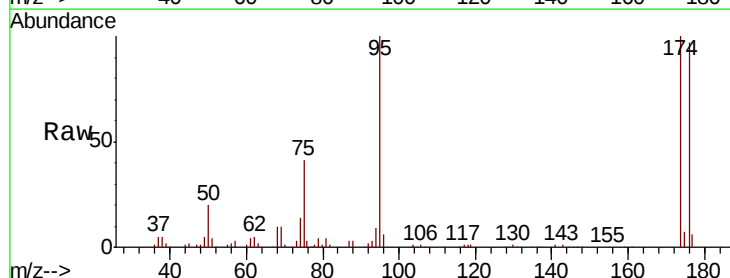
Acq: 6 Aug 2019 19:00

Tgt Ion: 75 Resp: 126272

Ion Ratio Lower Upper

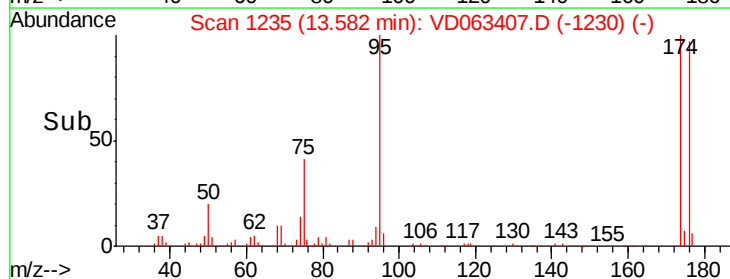
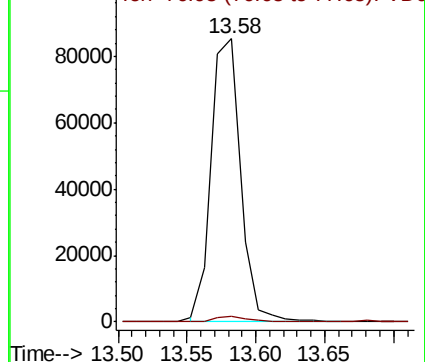
75 100

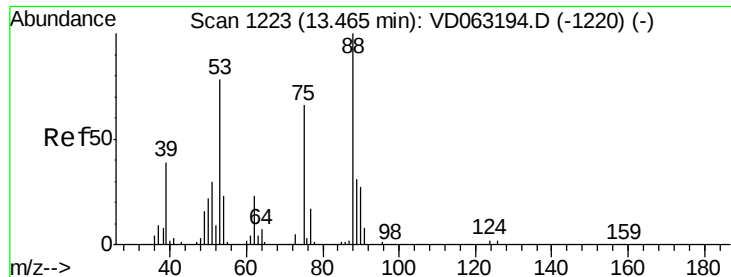
77 2.1 16.0 48.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 132.693 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. 0.12 min

Lab File: VD063407.D

Acq: 6 Aug 2019 19:00

Instrument :

MSVOA_D

ClientSampleId :

370-371

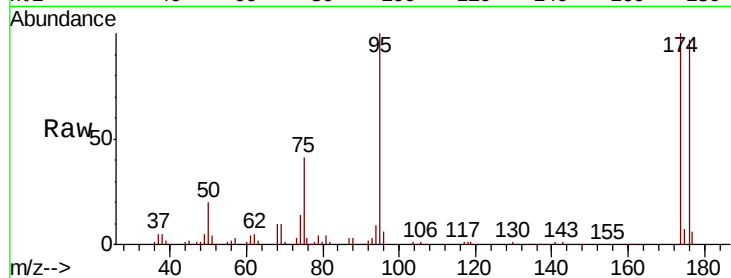
Tgt Ion: 75 Resp: 126662

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



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

