

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080719\
 Data File : VD063422.D
 Acq On : 7 Aug 2019 16:29
 Operator : JC/SY
 Sample : K4208-02RE
 Misc : 3.99g/5ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-02(0-2)RE

Quant Time: Aug 08 08:06:29 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	914473	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.23	114	1193687	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	877507	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	316226	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	539617	53.18	ug/l	0.03
Spiked Amount 50.000			Recovery	=	106.36%	
35) Dibromofluoromethane	6.93	113	545899	53.56	ug/l	0.03
Spiked Amount 50.000			Recovery	=	107.12%	
50) Toluene-d8	10.42	98	1055282	46.27	ug/l	0.02
Spiked Amount 50.000			Recovery	=	92.54%	
62) 4-Bromofluorobenzene	13.56	95	338521	32.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.14%	

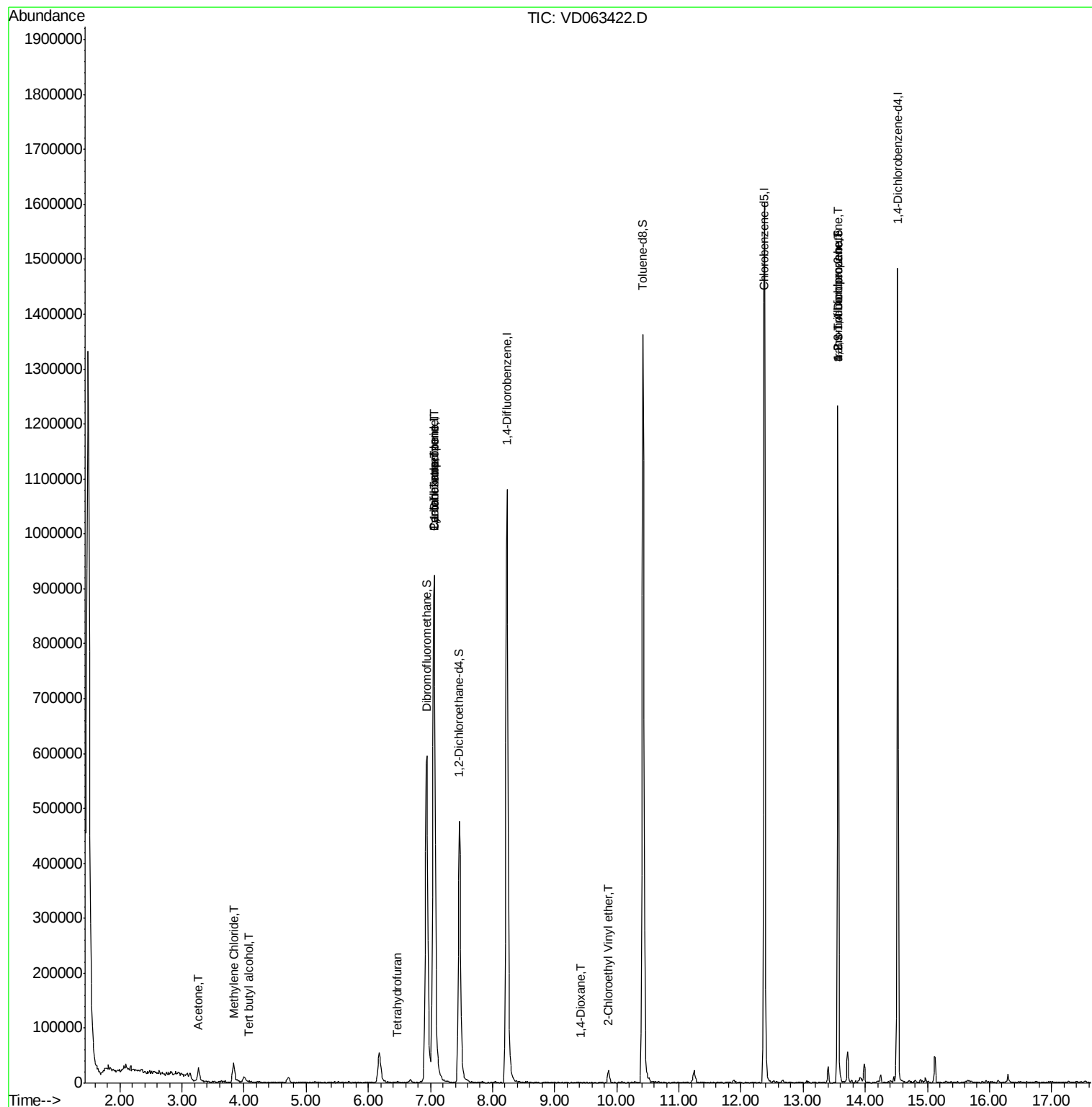
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.07	59	1597	3.586	ug/l #	64
16) Acetone	3.24	43	6738	3.408	ug/l #	62
20) Methylene Chloride	3.82	84	20018	2.505	ug/l	87
29) Tetrahydrofuran	6.48	42	1756	1.869	ug/l #	62
31) Cyclohexane	7.05	56	19920	2.204	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	64375	5.909	ug/l #	54
38) Carbon Tetrachloride	7.06	117	87580	5.340	ug/l #	14
49) 1,4-Dioxane	9.42	88	240	2.882	ug/l #	22
58) 2-Chloroethyl Vinyl ether	9.88	63	12172	4.165	ug/l #	88
76) 1,2,3-Trichloropropane	13.56	75	135778	35.747	ug/l #	46
81) trans-1,4-Dichloro-2-buten	13.56	75	169580	160.784	ug/l #	3

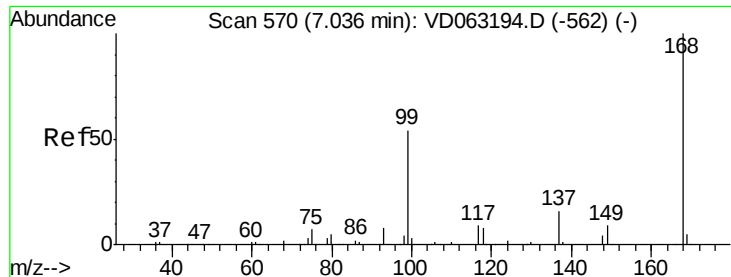
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

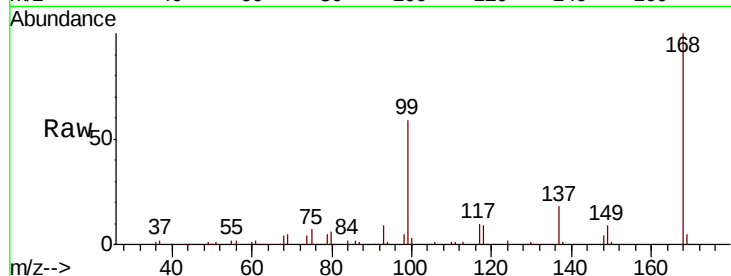
SB-02(0-2)RE

Tgt Ion:168 Resp: 914473

Ion Ratio Lower Upper

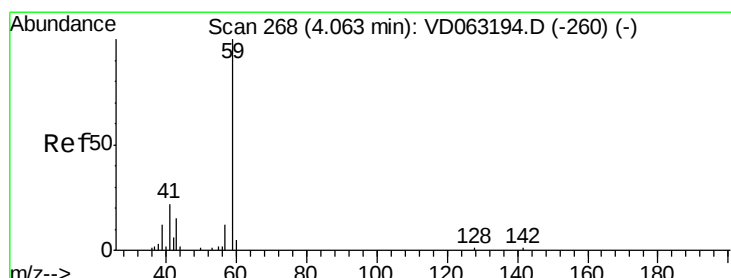
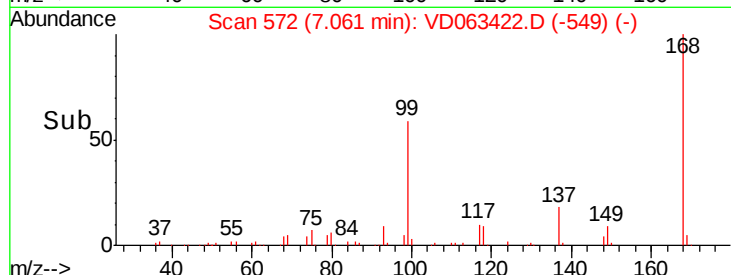
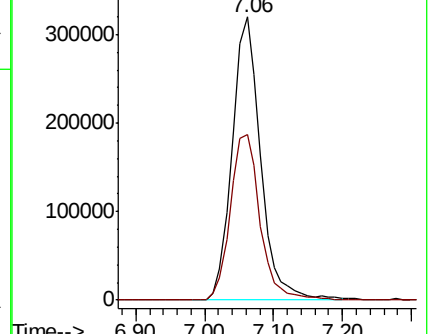
168 100

99 58.7 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 3.586 ug/l

RT: 4.07 min Scan# 268

Delta R.T. 0.01 min

Lab File: VD063422.D

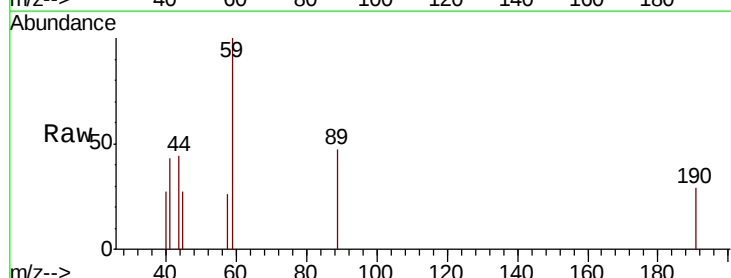
Acq: 7 Aug 2019 16:29

Tgt Ion: 59 Resp: 1597

Ion Ratio Lower Upper

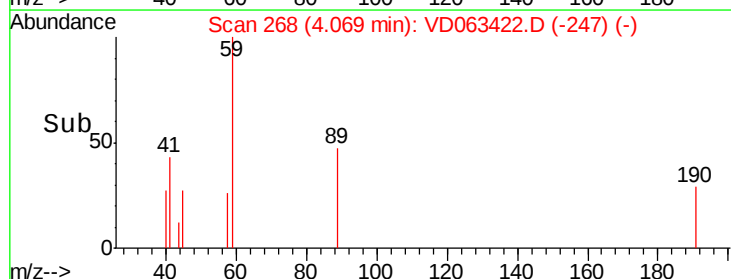
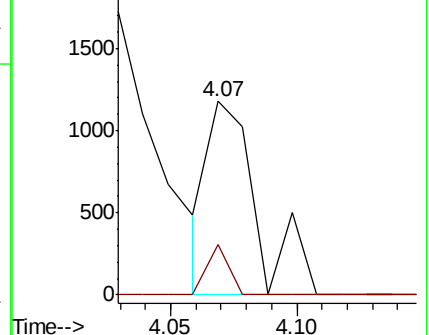
59 100

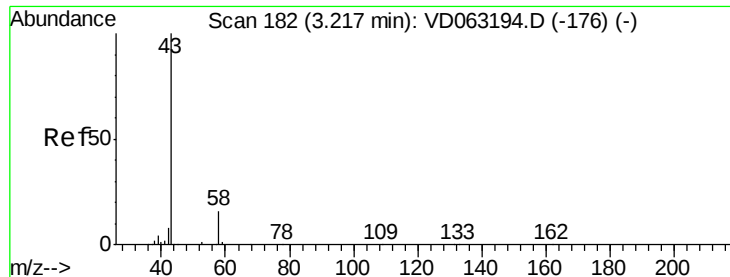
57 26.1 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

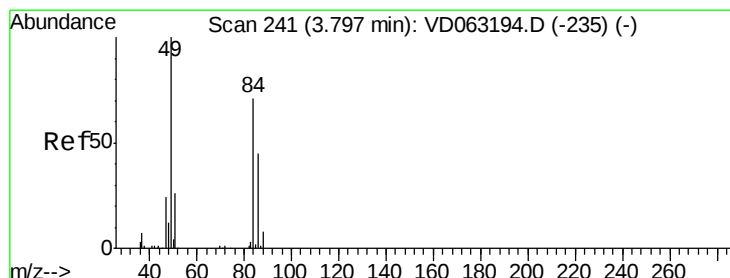
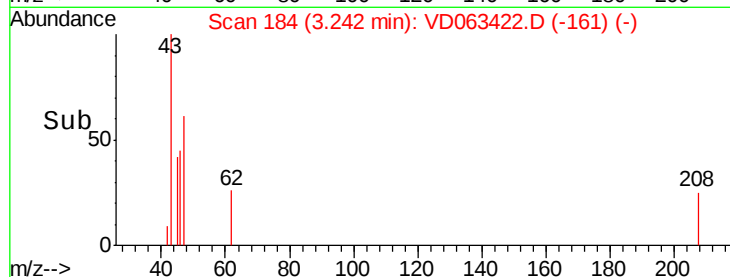
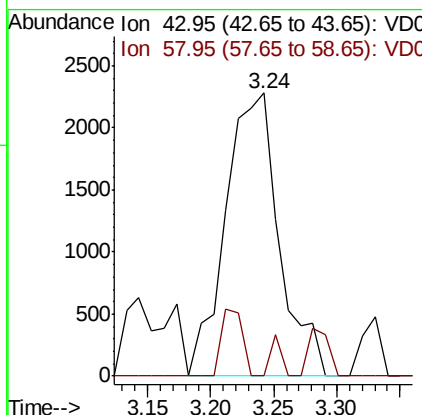
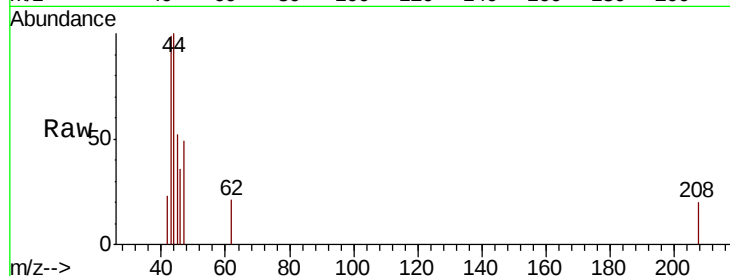




#16
Acetone
Concen: 3.408 ug/l
RT: 3.24 min Scan# 184
Delta R.T. 0.03 min
Lab File: VD063422.D
Acq: 7 Aug 2019 16:29

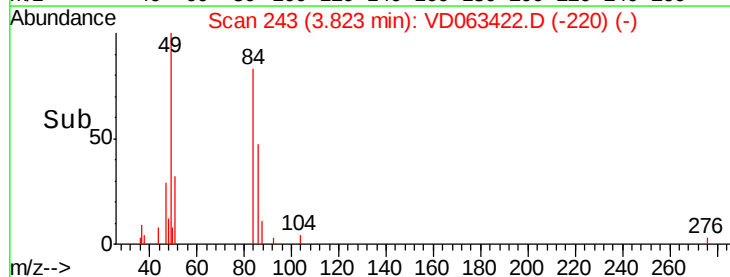
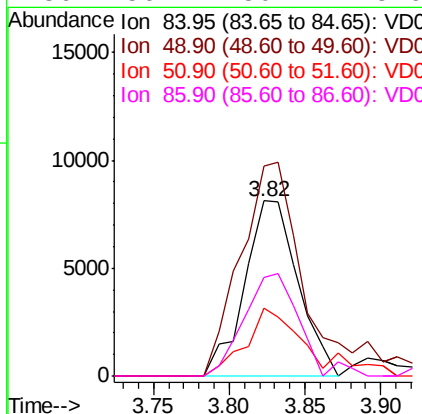
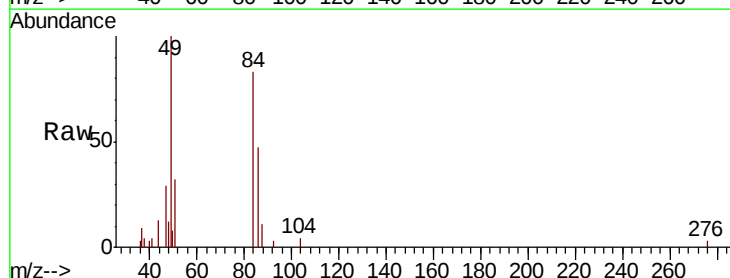
Instrument :
MSVOA_D
ClientSampleId :
SB-02(0-2)RE

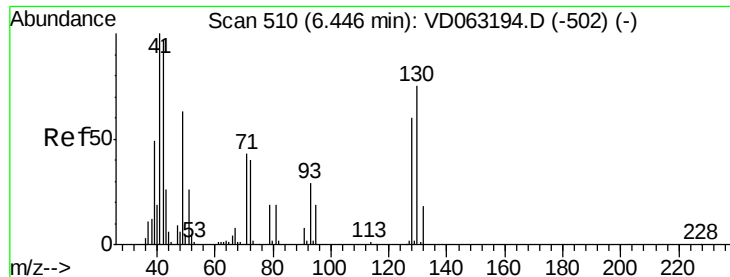
Tgt Ion: 43 Resp: 6738
Ion Ratio Lower Upper
43 100
58 0.0 13.0 19.4#



#20
Methylene Chloride
Concen: 2.505 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.03 min
Lab File: VD063422.D
Acq: 7 Aug 2019 16:29

Tgt Ion: 84 Resp: 20018
Ion Ratio Lower Upper
84 100
49 120.2 112.5 168.7
51 39.0 29.6 44.4
86 56.1 50.4 75.6





#29

Tetrahydrofuran

Concen: 1.869 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.04 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

SB-02(0-2)RE

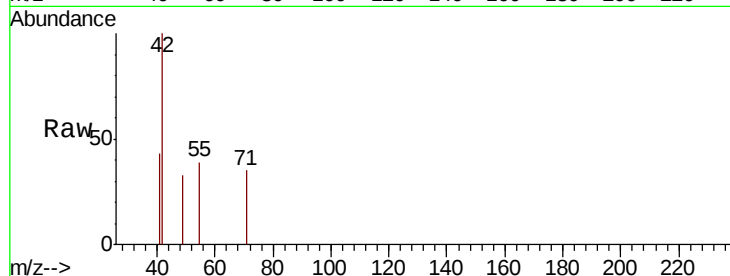
Tgt Ion: 42 Resp: 1756

Ion Ratio Lower Upper

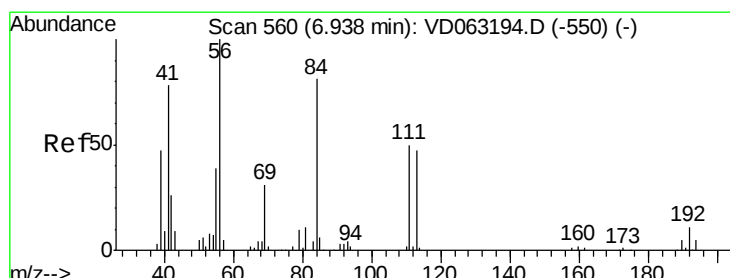
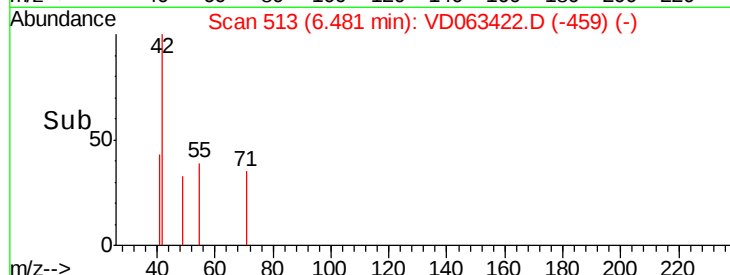
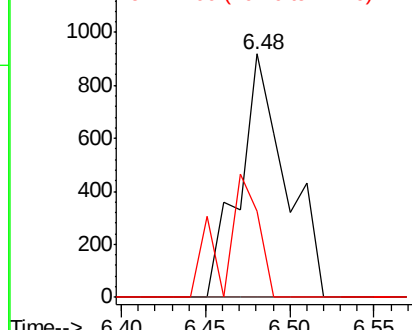
42 100

72 0.0 33.4 50.2#

71 37.0 35.7 53.5



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: 2.204 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

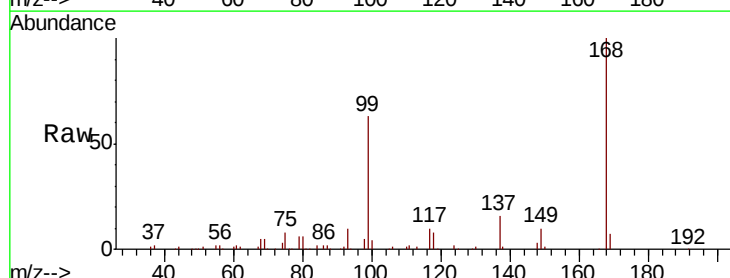
Tgt Ion: 56 Resp: 19920

Ion Ratio Lower Upper

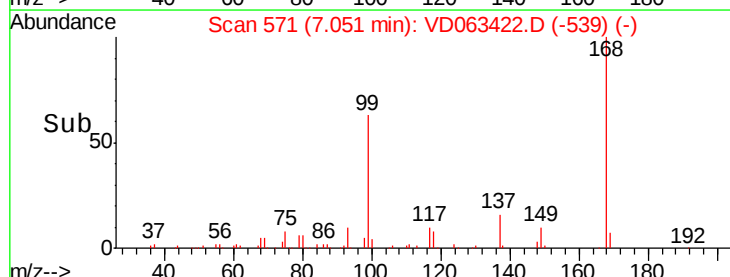
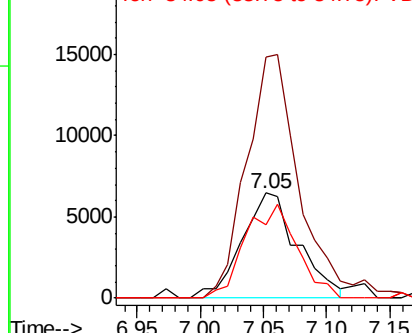
56 100

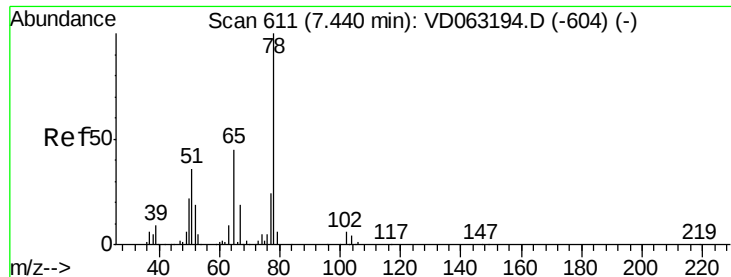
69 229.3 24.5 36.7#

84 69.6 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: 53.180 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

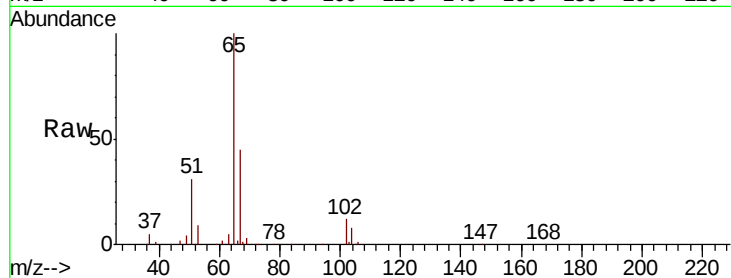
SB-02(0-2)RE

Tgt Ion: 65 Resp: 539617

Ion Ratio Lower Upper

65 100

67 45.1 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

200000

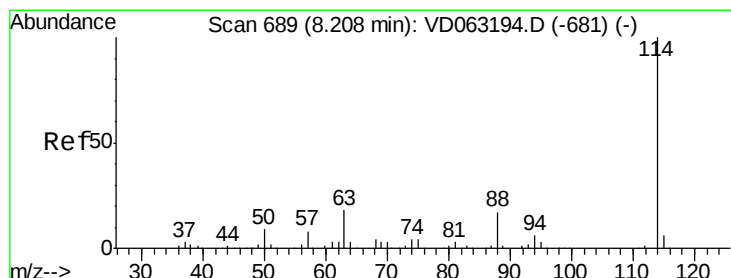
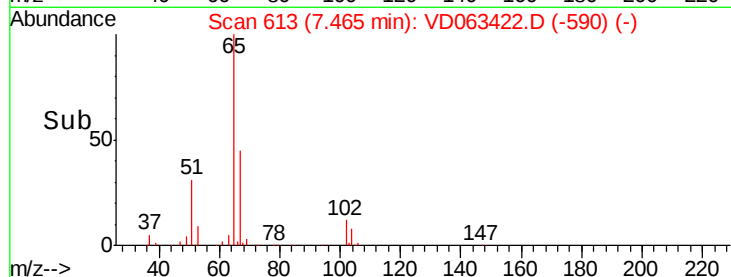
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.03 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

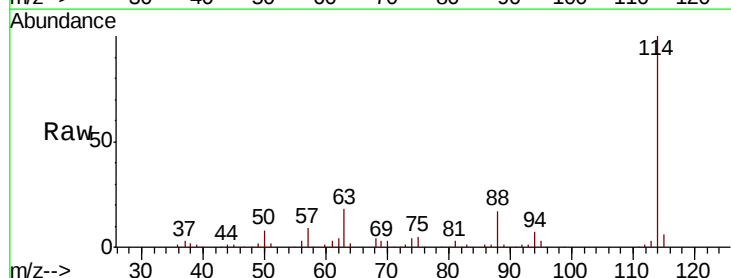
Tgt Ion: 114 Resp: 1193687

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.2

88 17.0 0.0 34.6



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

8.23

600000

500000

400000

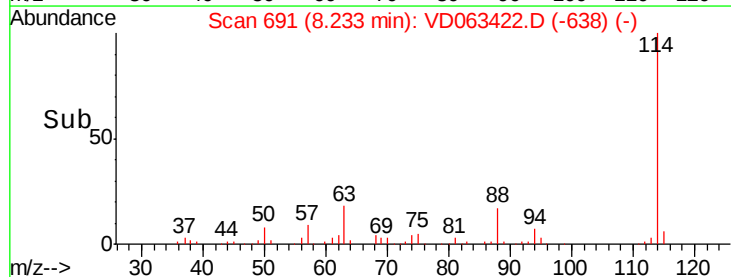
300000

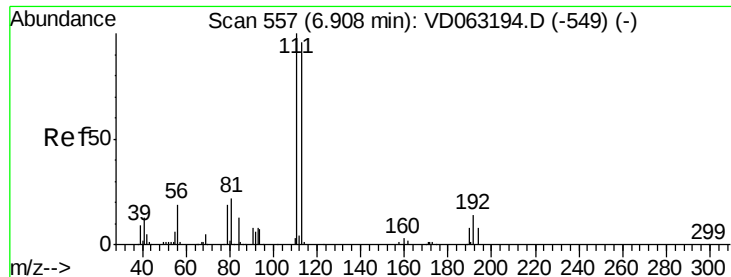
200000

100000

0

Time--> 8.10 8.20 8.30 8.40 8.50





#35

Dibromofluoromethane

Concen: 53.564 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

SB-02(0-2)RE

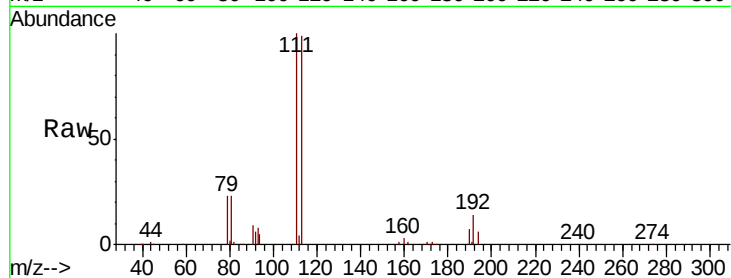
Tgt Ion: 113 Resp: 545899

Ion Ratio Lower Upper

113 100

111 101.0 83.2 124.8

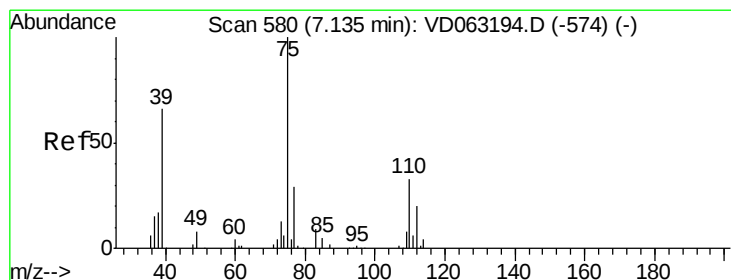
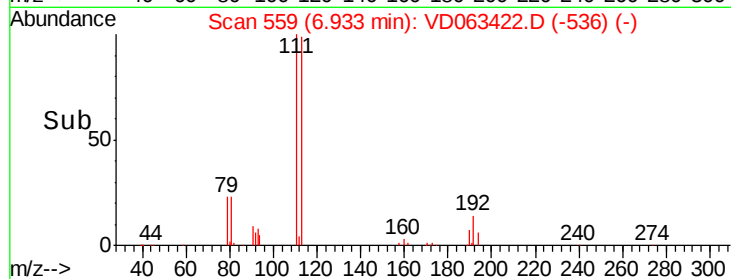
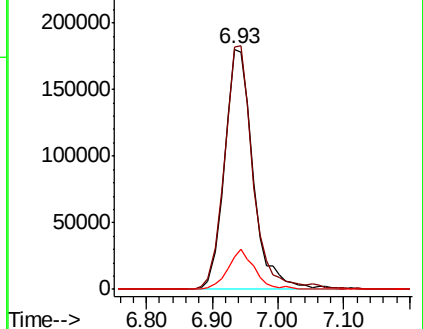
192 13.7 11.8 17.8



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: 5.909 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

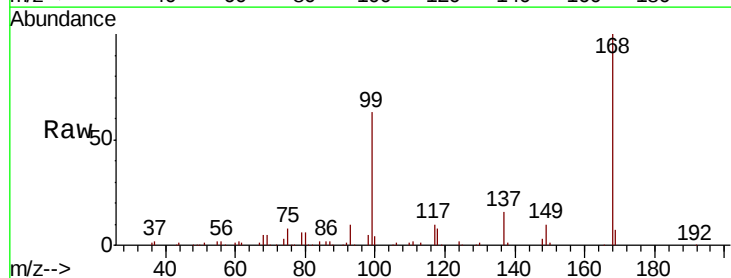
Tgt Ion: 75 Resp: 64375

Ion Ratio Lower Upper

75 100

110 8.4 16.1 48.2#

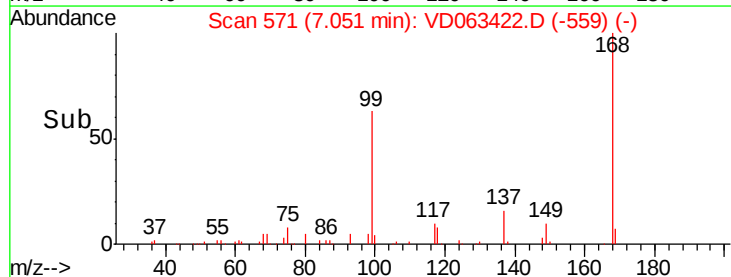
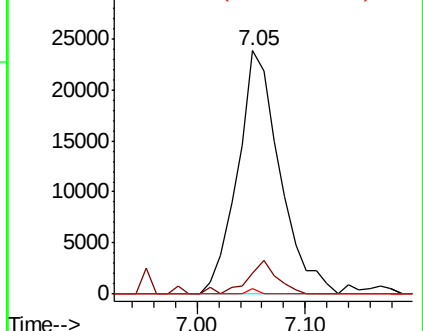
77 2.2 22.7 34.1#

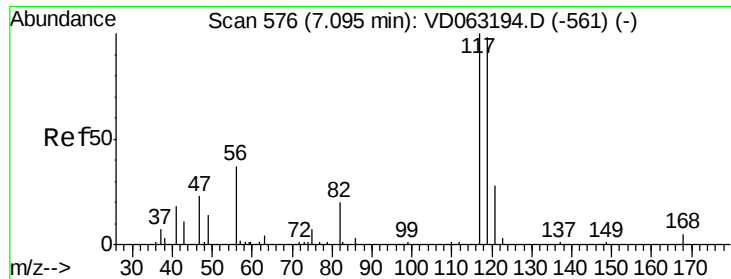


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 5.340 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.03 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

Instrument :

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ClientSampleId :

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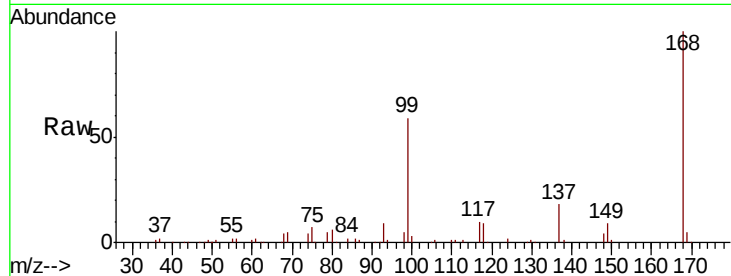
Tgt Ion:117 Resp: 87580

Ion Ratio Lower Upper

117 100

119 4.0 78.2 117.2#

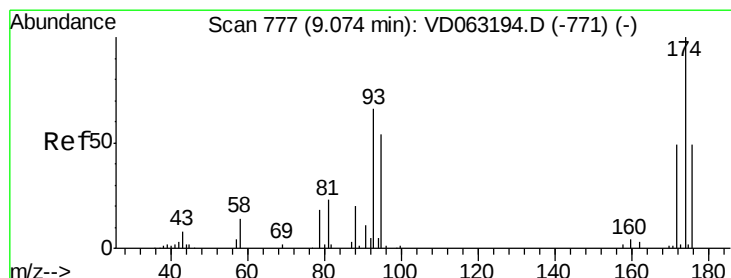
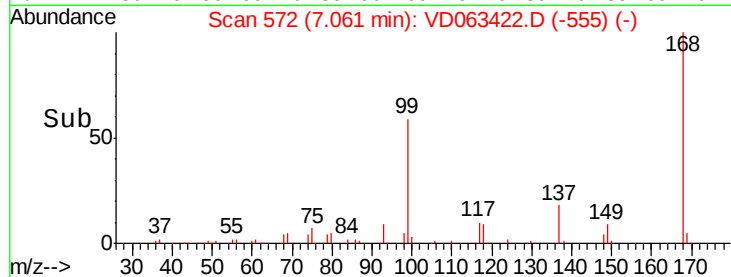
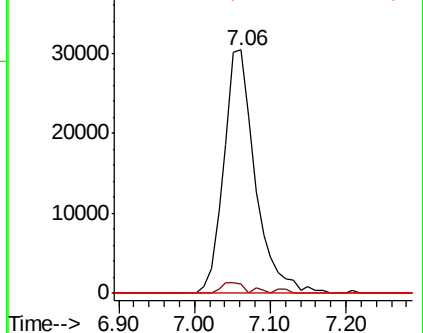
121 0.0 22.1 33.1#



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



#49

1,4-Dioxane

Concen: 2.882 ug/l

RT: 9.42 min Scan# 812

Delta R.T. 0.35 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

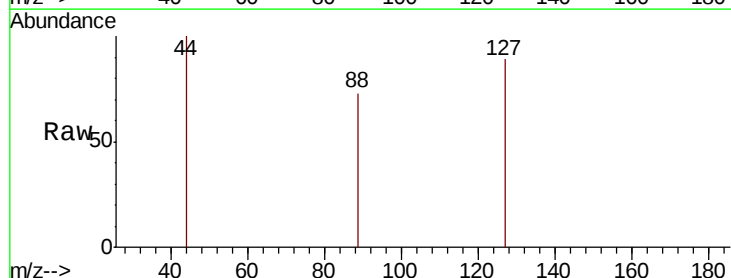
Tgt Ion: 88 Resp: 240

Ion Ratio Lower Upper

88 100

43 0.0 30.7 46.1#

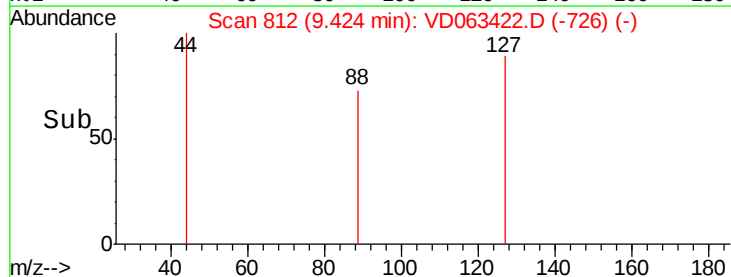
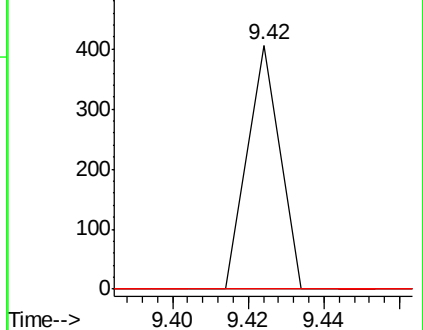
58 0.0 56.5 84.7#

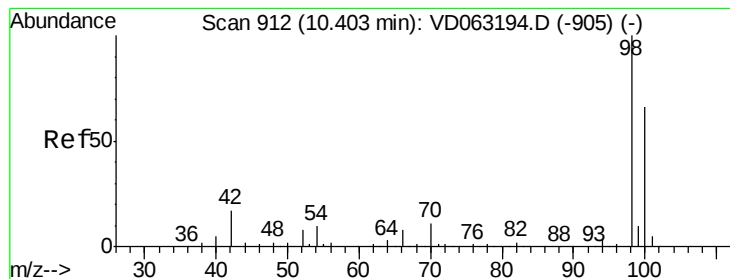


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 46.267 ug/l

RT: 10.42 min Scan# 913

Delta R.T. 0.02 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

Instrument :

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ClientSampleId :

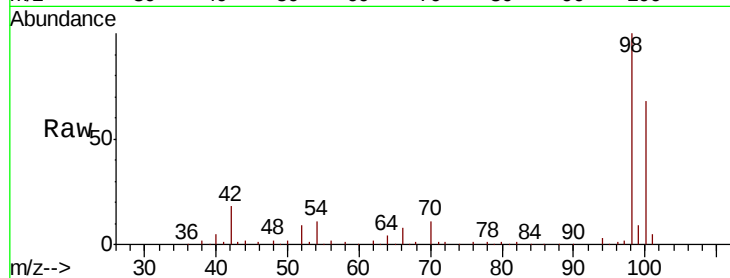
SB-02(0-2)RE

Tgt Ion: 98 Resp: 1055282

Ion Ratio Lower Upper

98 100

100 67.6 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VD063194.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD063194.D (-905) (-)

10.42

500000

400000

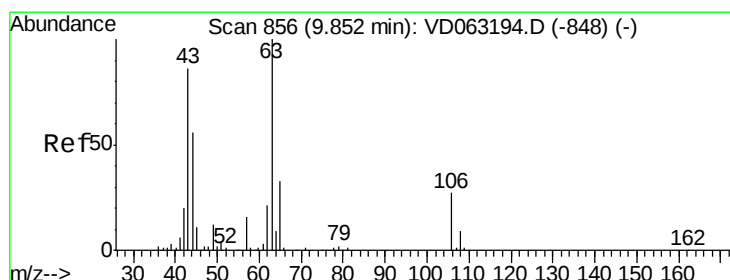
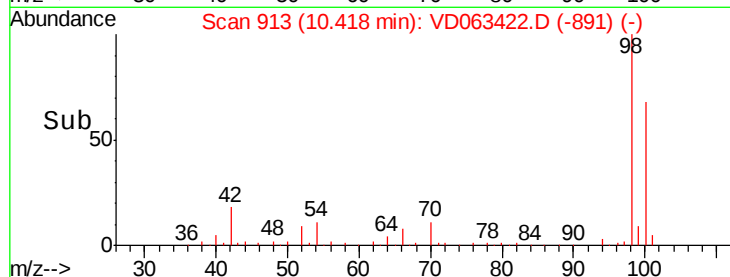
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 4.165 ug/l

RT: 9.88 min Scan# 858

Delta R.T. 0.03 min

Lab File: VD063422.D

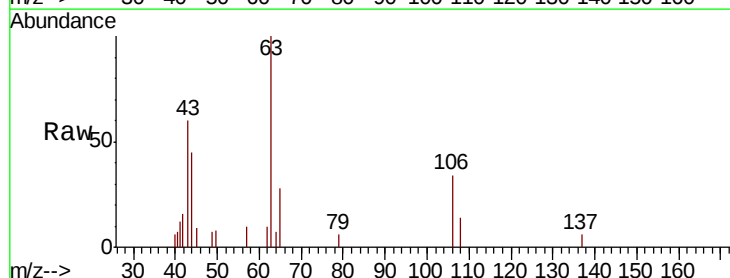
Acq: 7 Aug 2019 16:29

Tgt Ion: 63 Resp: 12172

Ion Ratio Lower Upper

63 100

106 33.9 22.0 33.0#



Abundance Ion 62.95 (62.65 to 63.65): VD063194.D (-848) (-)

Ion 105.95 (105.65 to 106.65): VD063194.D (-848) (-)

9.88

6000

5000

4000

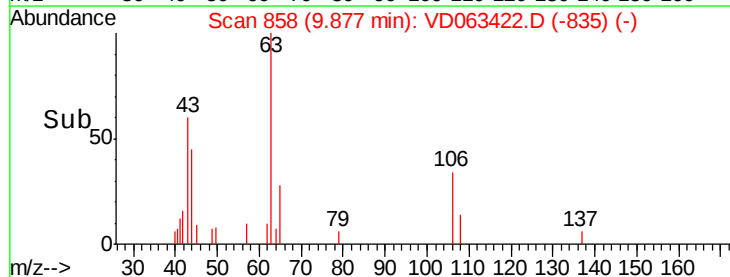
3000

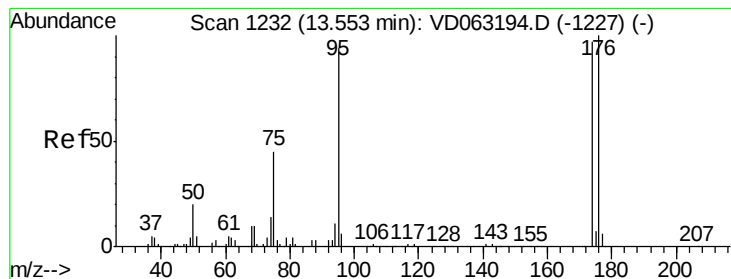
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 32.570 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

SB-02(0-2)RE

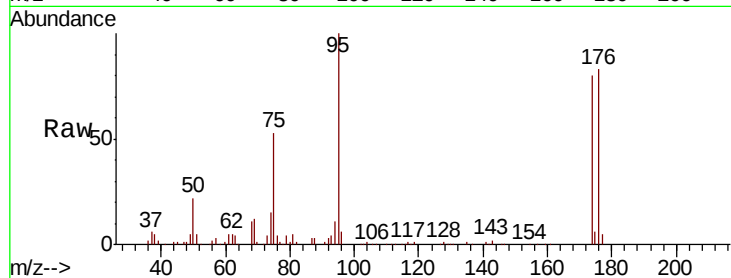
Tgt Ion: 95 Resp: 338521

Ion Ratio Lower Upper

95 100

174 80.0 0.0 205.4

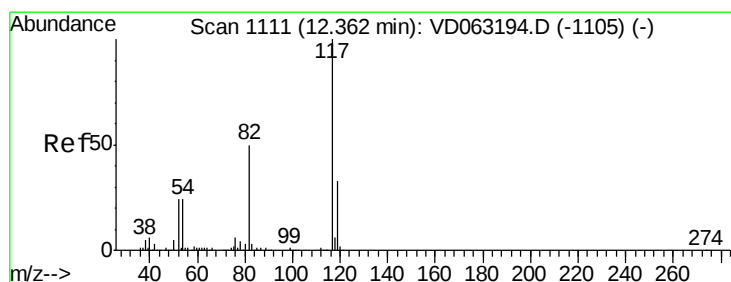
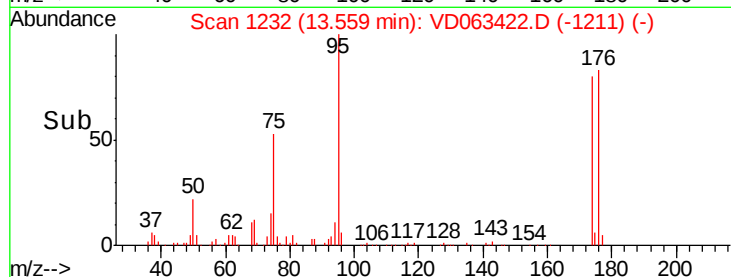
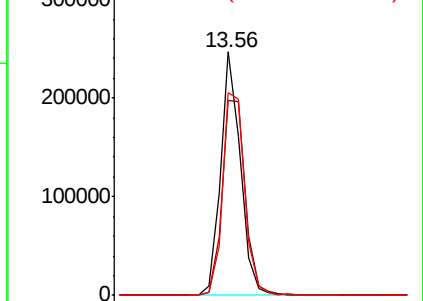
176 83.4 0.0 211.8



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: 12.38 min Scan# 1112

Delta R.T. 0.02 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

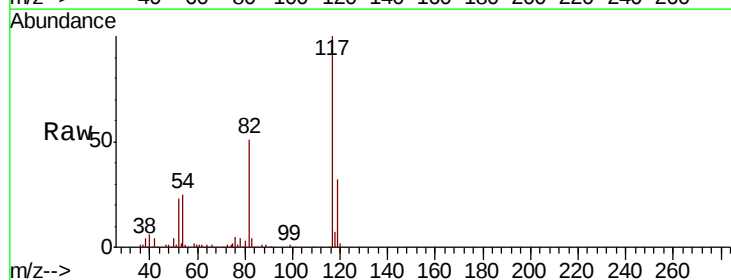
Tgt Ion: 117 Resp: 877507

Ion Ratio Lower Upper

117 100

82 50.6 40.1 60.1

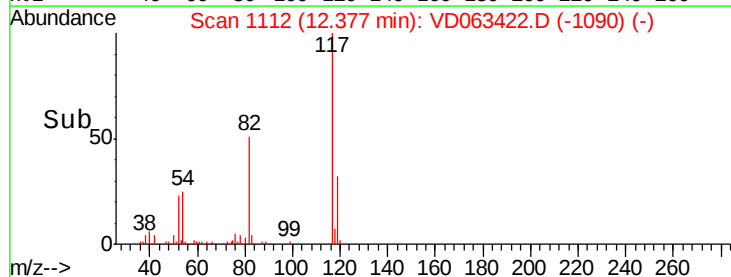
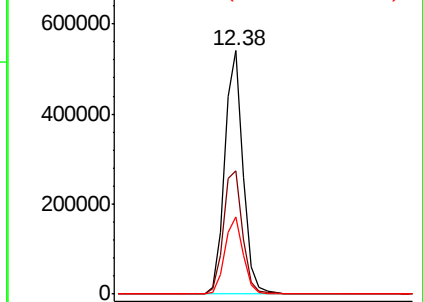
119 31.6 26.5 39.7

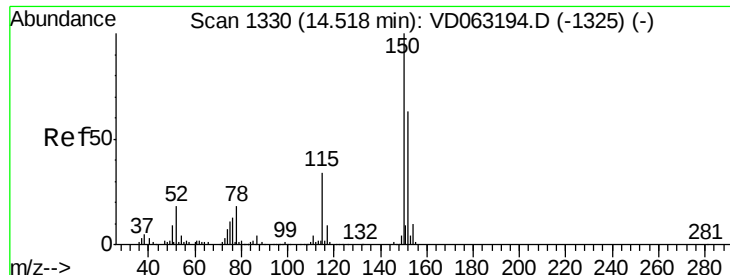


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

SB-02(0-2)RE

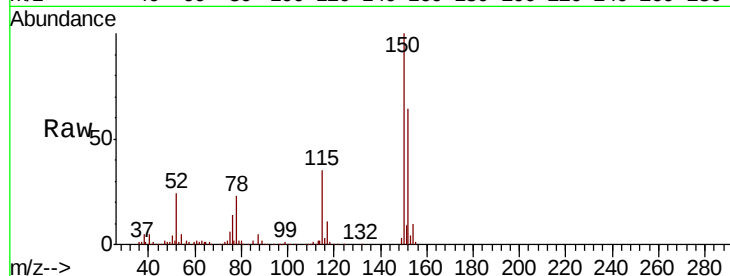
Tgt Ion:152 Resp: 316226

Ion Ratio Lower Upper

152 100

115 54.1 27.5 82.4

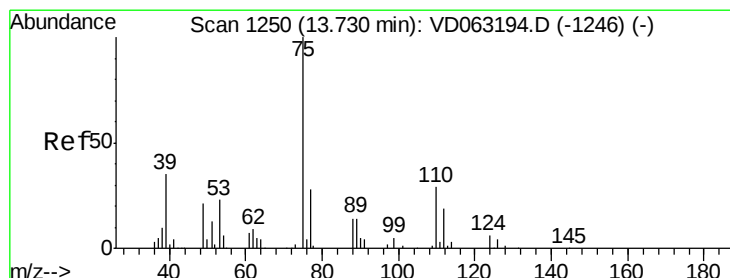
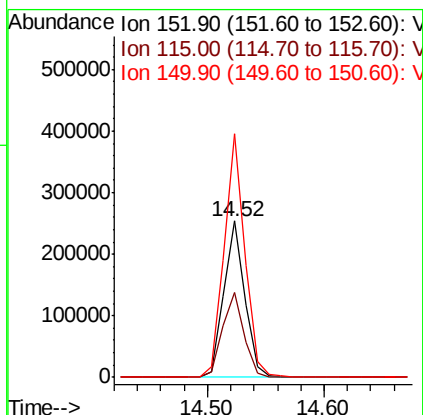
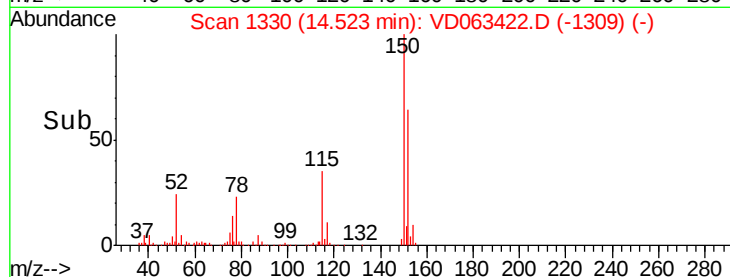
150 156.1 0.0 320.6



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: 35.747 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063422.D

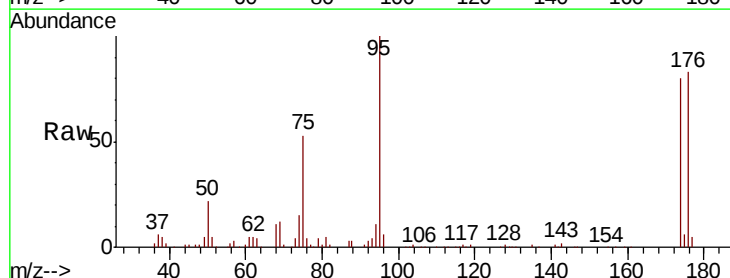
Acq: 7 Aug 2019 16:29

Tgt Ion: 75 Resp: 135778

Ion Ratio Lower Upper

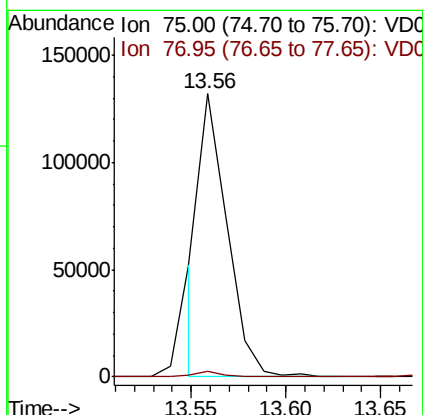
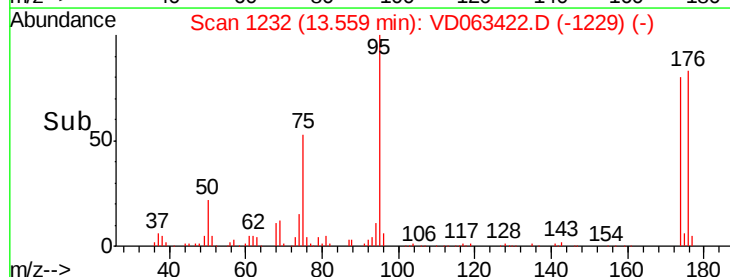
75 100

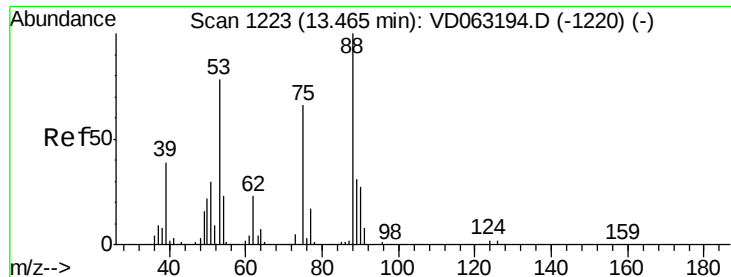
77 1.8 16.0 48.0#



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: 160.784 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063422.D

Acq: 7 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

SB-02(0-2)RE

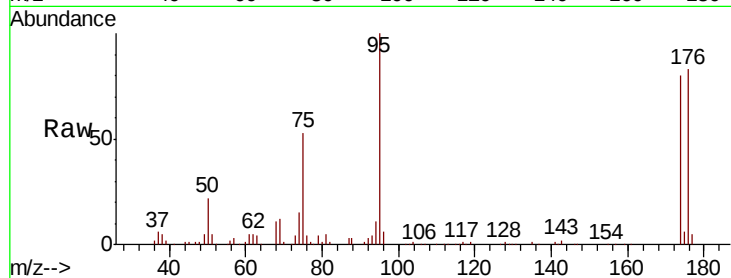
Tgt Ion: 75 Resp: 169580

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

