

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072919\
 Data File : VD063222.D
 Acq On : 30 Jul 2019 3:33
 Operator : VA/AP
 Sample : K4049-09
 Misc : 4.53g/5ml/MSVOA D/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-9

Quant Time: Jul 30 04:04:51 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	7.04	168	617446	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	807938	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	593717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	223814	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.44	65	468106	68.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	136.66%	
35) Dibromofluoromethane	6.92	113	572068	82.93	ug/l	0.01
Spiked Amount	50.000		Recovery	=	165.86%	
50) Toluene-d8	10.41	98	1060232	68.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	137.36%	
62) 4-Bromofluorobenzene	13.56	95	375645	53.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.80%	

Target Compounds

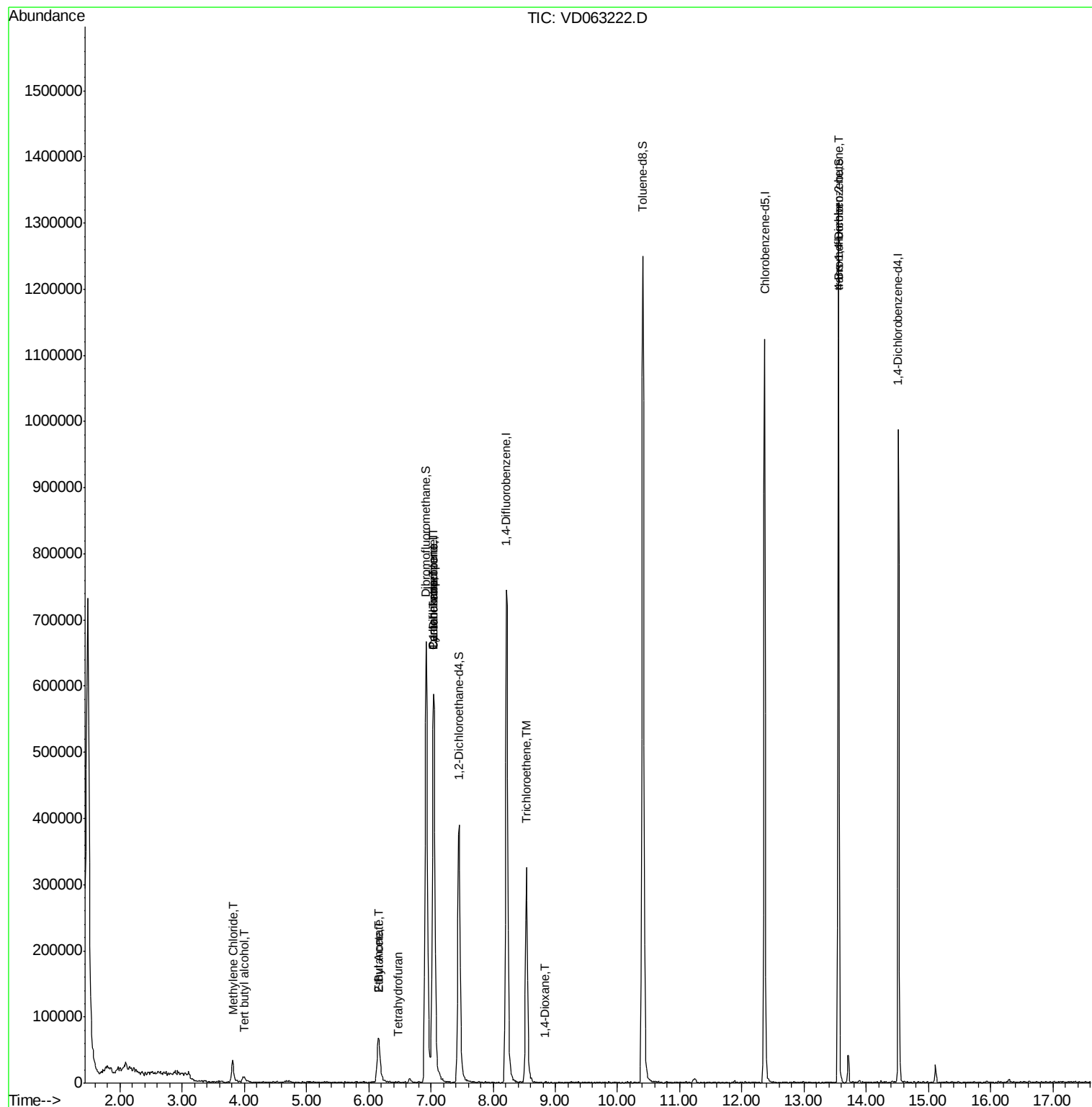
						Qvalue
11) Tert butyl alcohol	4.00	59	8855	29.452	ug/l #	69
20) Methylene Chloride	3.81	84	15808	2.930	ug/l #	85
25) 2-Butanone	6.16	43	5552	4.144	ug/l	93
29) Tetrahydrofuran	6.48	42	810	1.277	ug/l #	51
31) Cyclohexane	7.03	56	13139	2.153	ug/l #	24
36) 1,1-Dichloropropene	7.05	75	47315	6.417	ug/l #	51
37) Ethyl Acetate	6.16	43	5551	1.676	ug/l #	1
38) Carbon Tetrachloride	7.04	117	60151	5.419	ug/l #	15
44) Trichloroethene	8.54	130	134629	21.500	ug/l	98
49) 1,4-Dioxane	8.82	88	212	5.023	ug/l #	22
81) trans-1,4-Dichloro-2-buten	13.55	75	174567	233.852	ug/l #	3

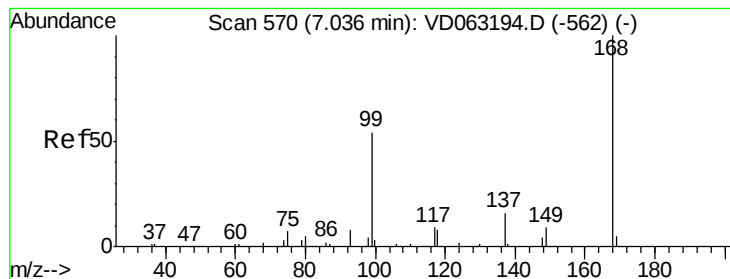
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD072919\
Data File : VD063222.D
Acq On : 30 Jul 2019 3:33
Operator : VA/AP
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MSVOA_D
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SP-9

Quant Time: Jul 30 04:04:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
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: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

Instrument :

MSVOA_D

ClientSampleId :

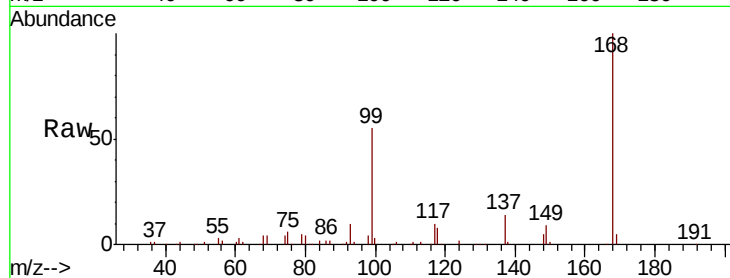
SP-9

Tot Ion:168 Resp: 617446

Ion Ratio Lower Upper

168 100

99 55.3 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

200000

150000

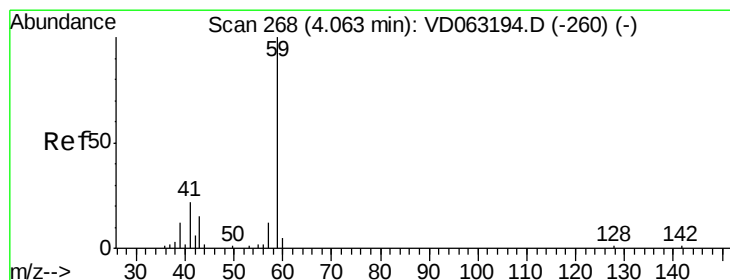
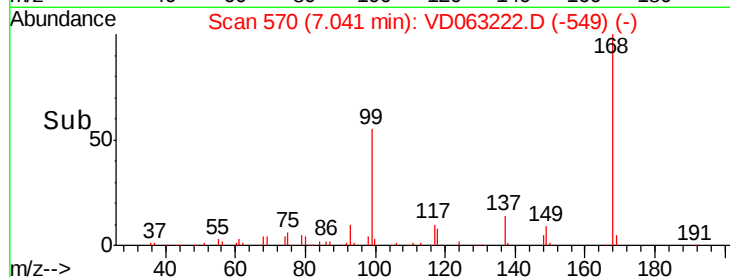
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 29.452 ug/l

RT: 4.00 min Scan# 261

Delta R.T. -0.06 min

Lab File: VD063222.D

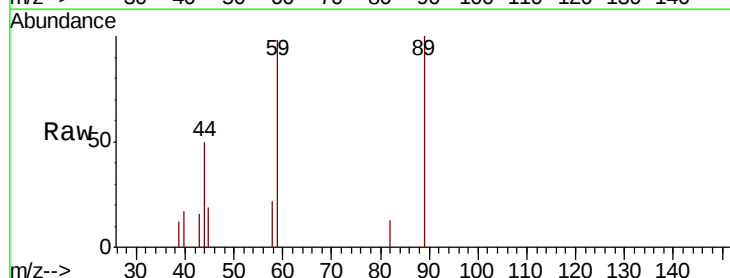
Acq: 30 Jul 2019 3:33

Tgt Ion: 59 Resp: 8855

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

4.00

3000

2500

2000

1500

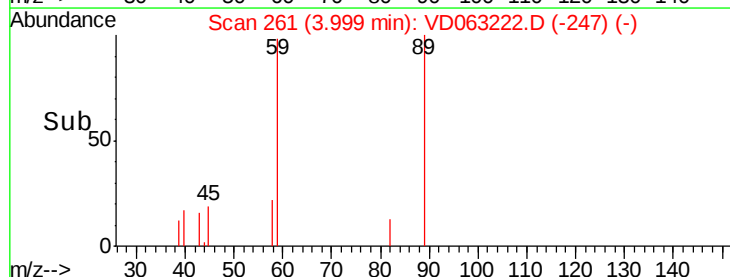
1000

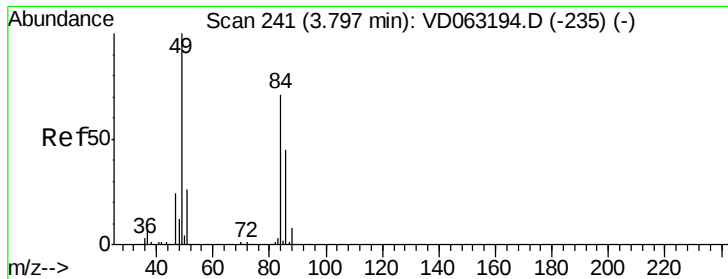
500

0

Time-->

3.90 4.00 4.10

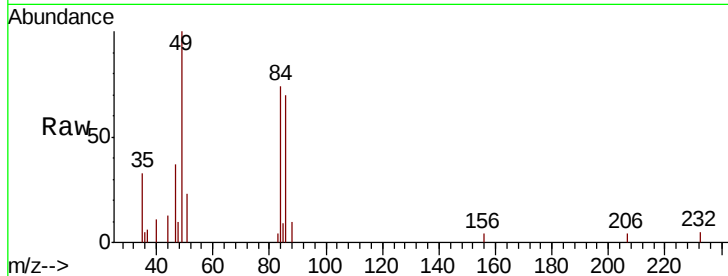




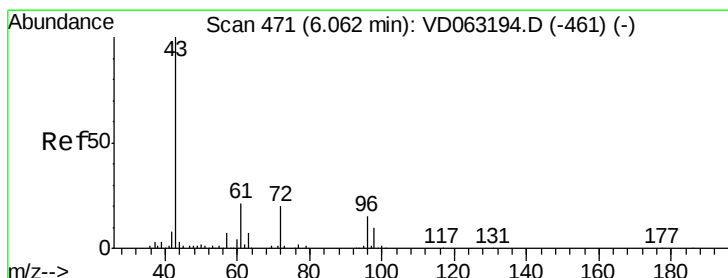
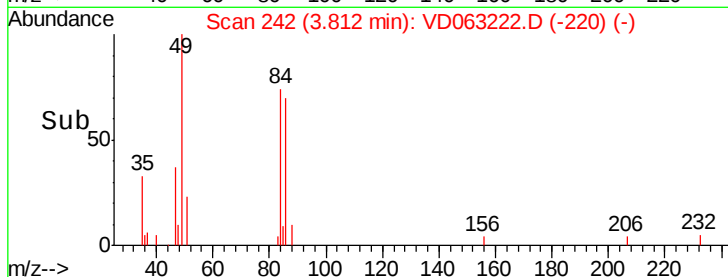
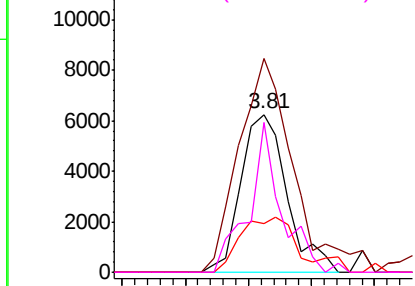
#20
Methvlene Chloride
Concen: 2.930 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063222.D
Acq: 30 Jul 2019 3:33

Instrument :
MSVOA_D
ClientSampleId :
SP-9

Tot Ion: 84 Resp: 15808
Ion Ratio Lower Upper
84 100
49 135.3 112.5 168.7
51 31.0 29.6 44.4
86 95.0 50.4 75.6#

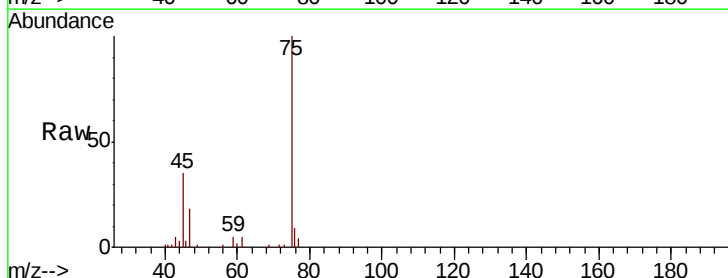


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

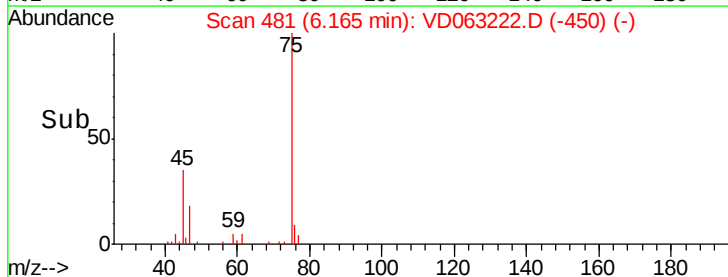
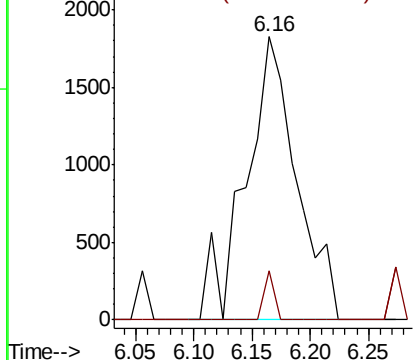


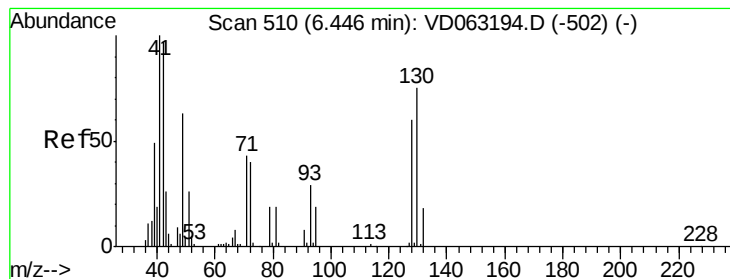
#25
2-Butanone
Concen: 4.144 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.10 min
Lab File: VD063222.D
Acq: 30 Jul 2019 3:33

Tgt Ion: 43 Resp: 5552
Ion Ratio Lower Upper
43 100
72 17.3 16.3 24.5



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





#29

Tetrahydrofuran

Concen: 1.277 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

Instrument :

MSVOA_D

ClientSampleID :

SP-9

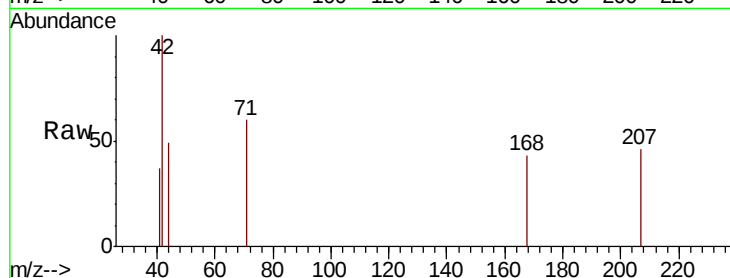
Tot Ion: 42 Resp: 810

Ion Ratio Lower Upper

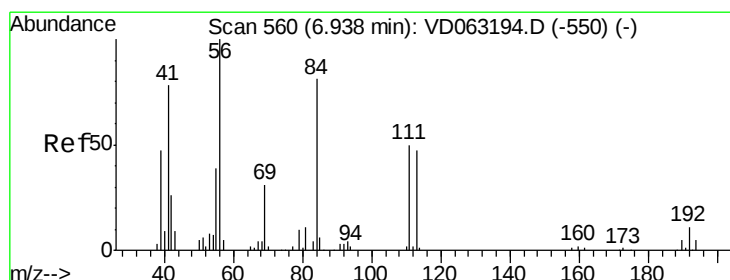
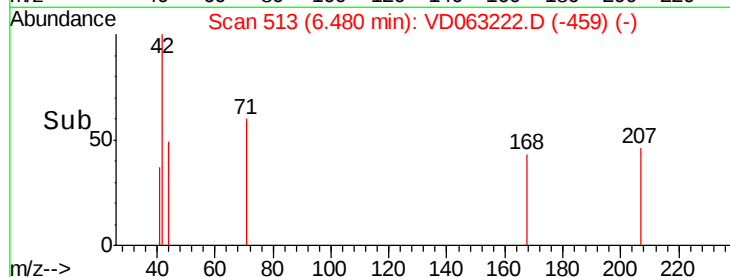
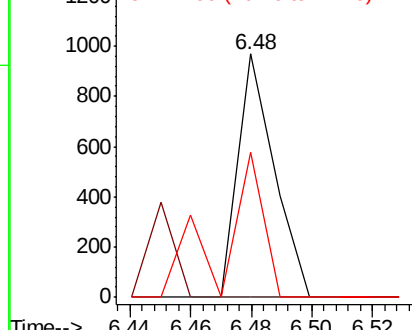
42 100

72 0.0 33.4 50.2#

71 65.9 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: 2.153 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.09 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

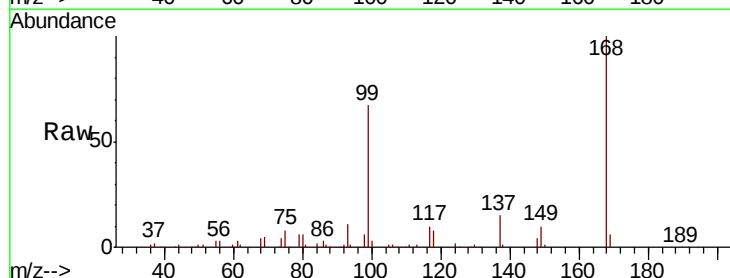
Tgt Ion: 56 Resp: 13139

Ion Ratio Lower Upper

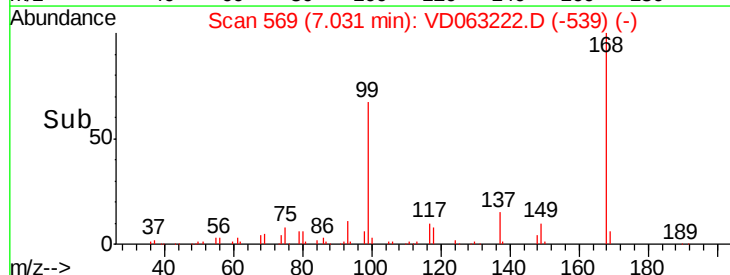
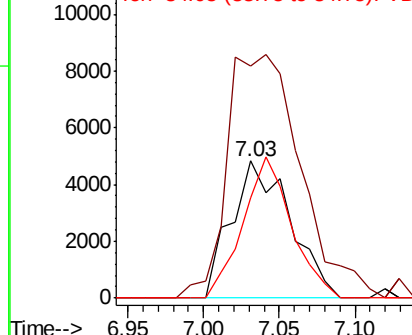
56 100

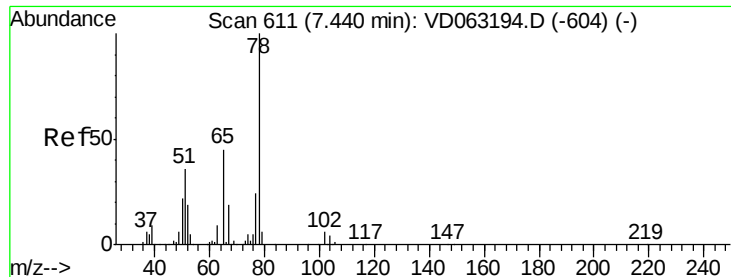
69 169.1 24.5 36.7#

84 73.0 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: 68.325 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

Instrument :

MSVOA_D

ClientSampled :

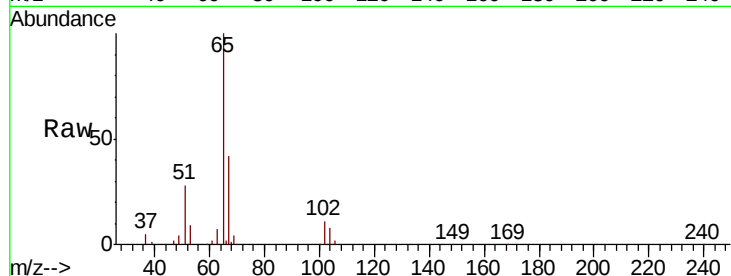
SP-9

Tot Ion: 65 Resp: 468106

Ion Ratio Lower Upper

65 100

67 41.9 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

150000

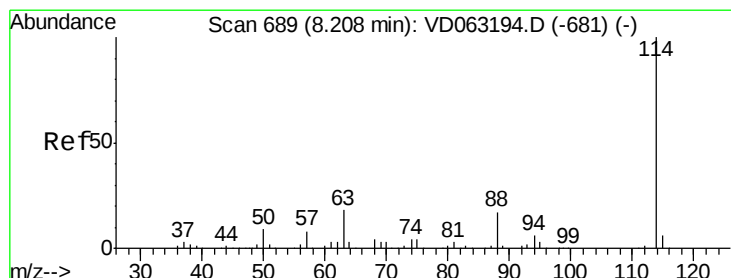
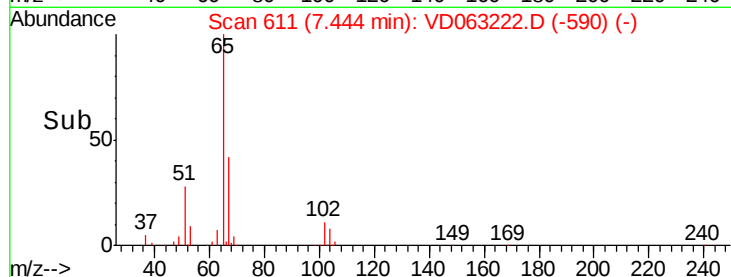
100000

50000

0

Time-->

7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

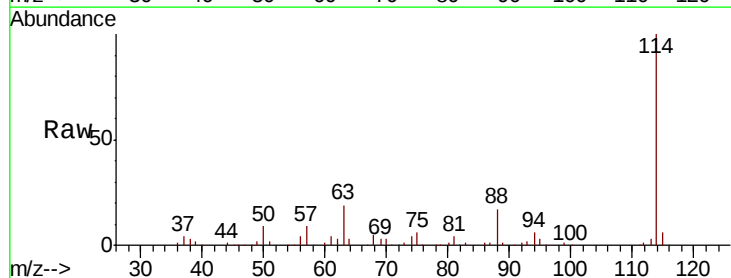
Tgt Ion: 114 Resp: 807938

Ion Ratio Lower Upper

114 100

63 19.2 0.0 35.2

88 16.8 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

8.21

400000

300000

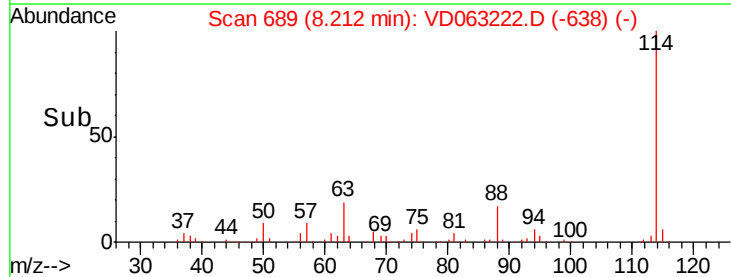
200000

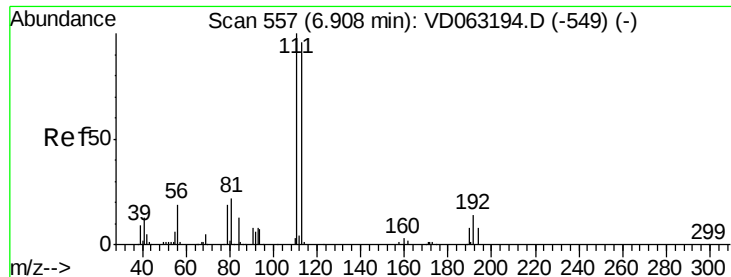
100000

0

Time-->

8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 82.932 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

Instrument :

MSVOA_D

ClientSampled :

SP-9

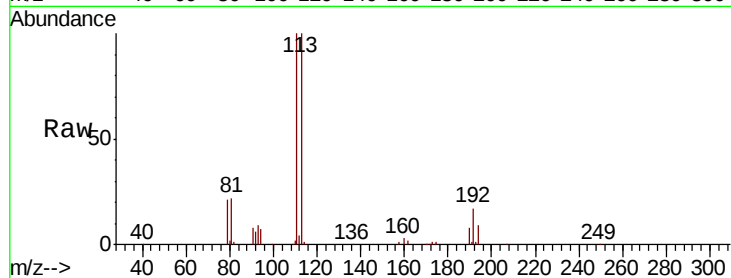
Tot Ion:113 Resp: 572068

Ion Ratio Lower Upper

113 100

111 99.7 83.2 124.8

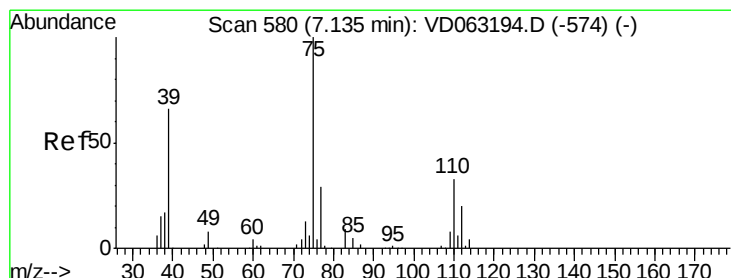
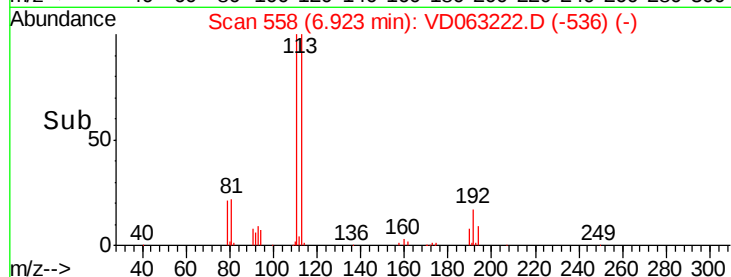
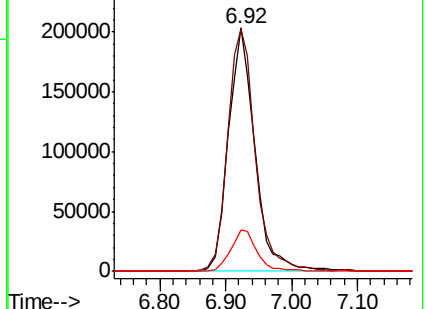
192 17.2 11.8 17.8



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: 6.417 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

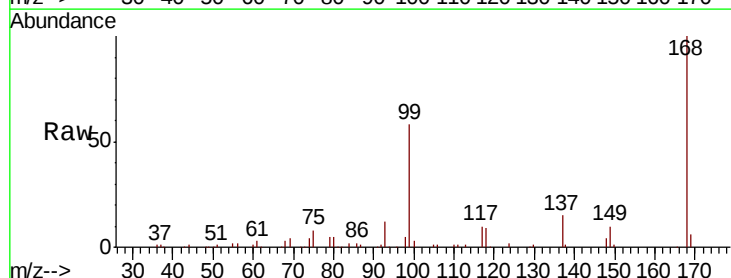
Tgt Ion: 75 Resp: 47315

Ion Ratio Lower Upper

75 100

110 6.8 16.1 48.2#

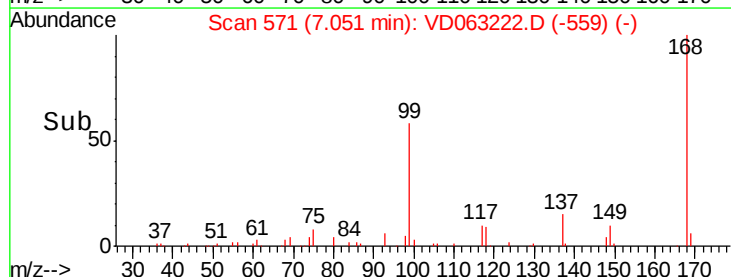
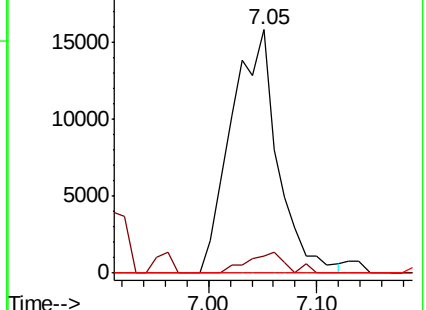
77 0.0 22.7 34.1#

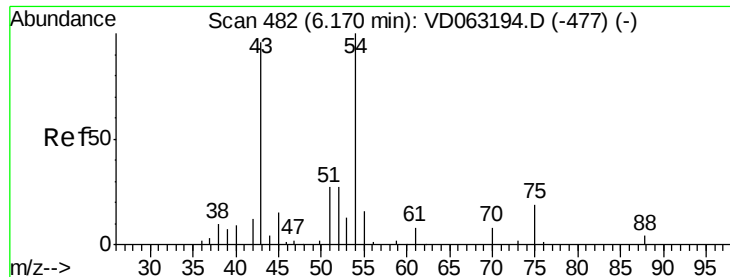


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 1.676 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.01 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

Instrument :

MSVOA_D

ClientSampled :

SP-9

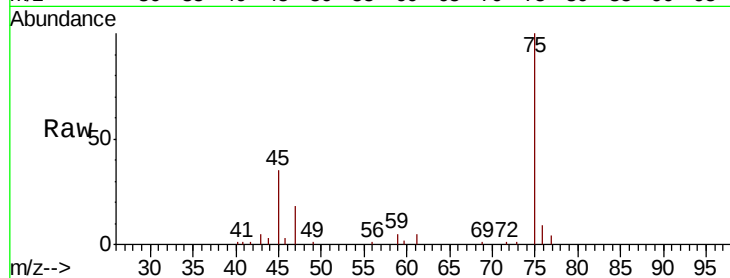
Tot Ion: 43 Resp: 5551

Ion Ratio Lower Upper

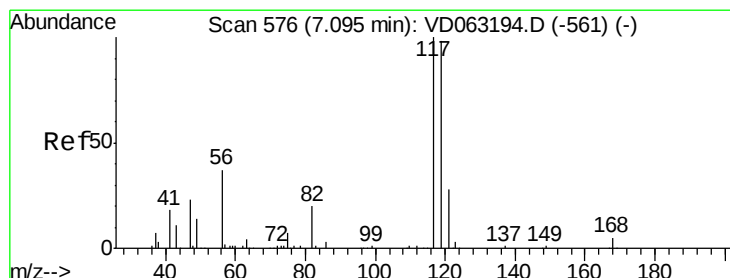
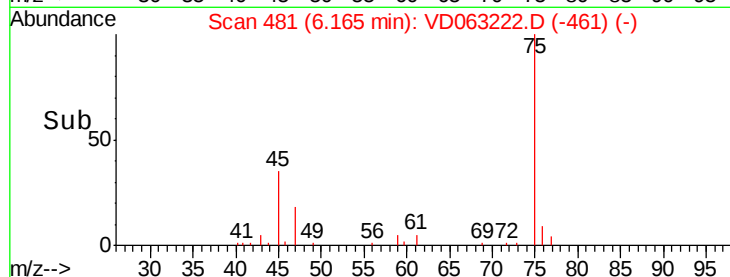
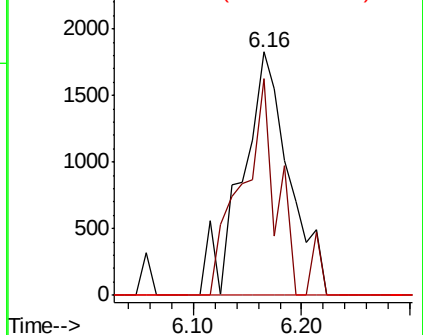
43 100

61 88.9 11.3 16.9#

70 0.0 5.1 7.7#



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: 5.419 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.05 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

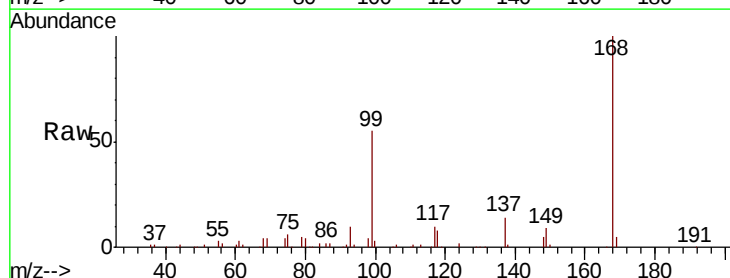
Tgt Ion: 117 Resp: 60151

Ion Ratio Lower Upper

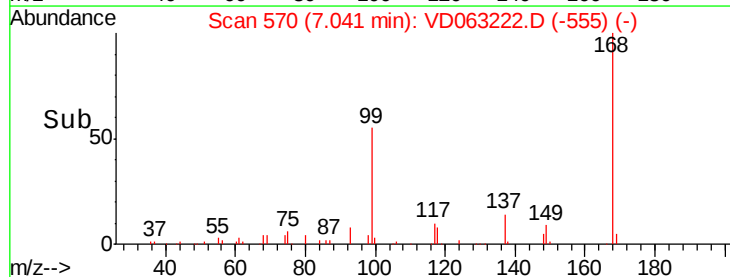
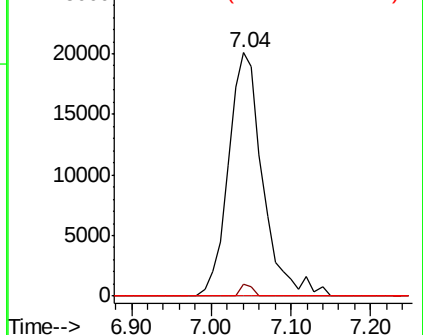
117 100

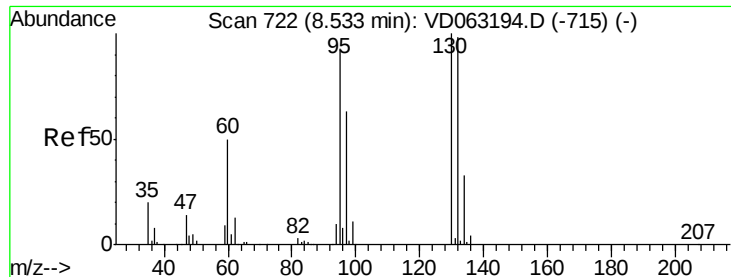
119 4.7 78.2 117.2#

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





#44

Trichloroethene

Concen: 21.500 ug/l

RT: 8.54 min Scan# 722

Delta R.T. 0.00 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

Instrument :

MSVOA_D

ClientSampleId :

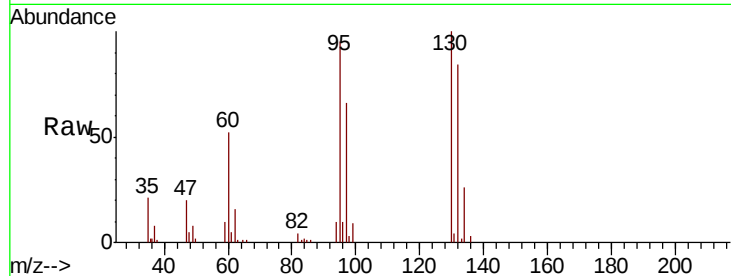
SP-9

Tot Ion:130 Resp: 134629

Ion Ratio Lower Upper

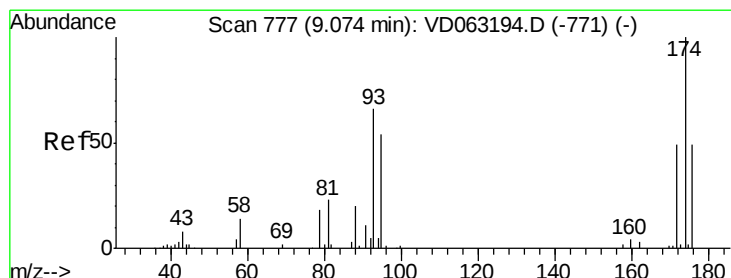
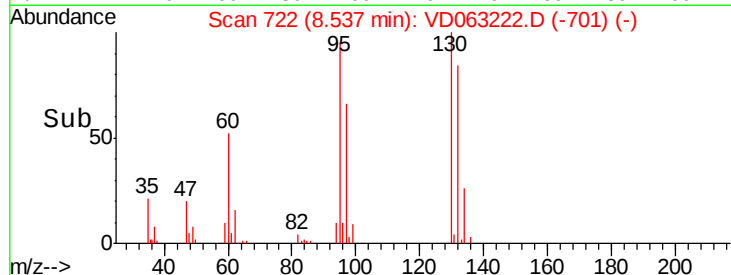
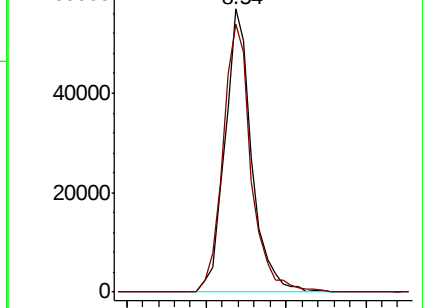
130 100

95 94.6 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#49

1,4-Dioxane

Concen: 5.023 ug/l

RT: 8.82 min Scan# 751

Delta R.T. -0.25 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

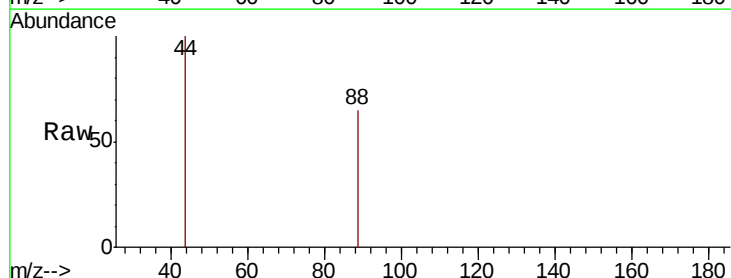
Tgt Ion: 88 Resp: 212

Ion Ratio Lower Upper

88 100

43 0.0 30.7 46.1#

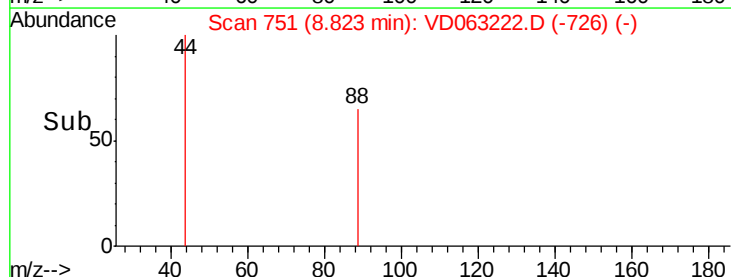
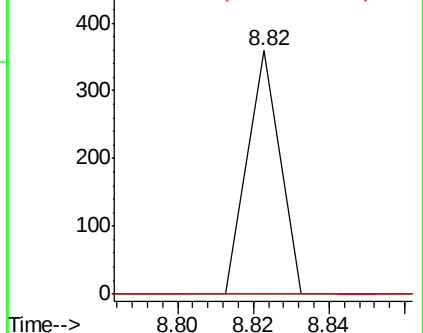
58 0.0 56.5 84.7#

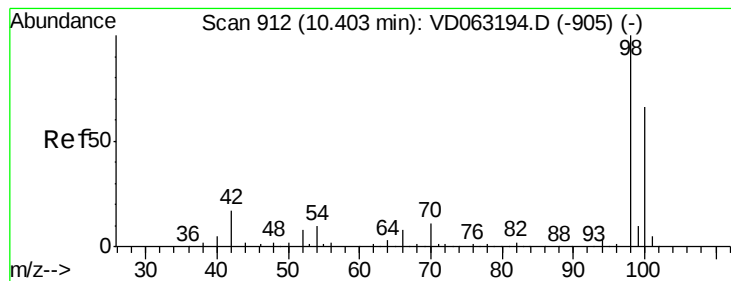


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 68.677 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

Instrument :

MSVOA_D

ClientSampled :

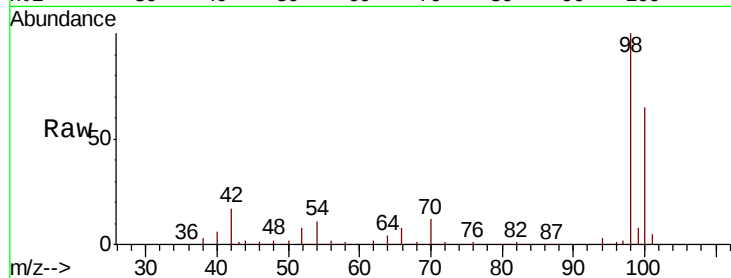
SP-9

Tot Ion: 98 Resp: 1060232

Ion Ratio Lower Upper

98 100

100 65.2 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) (-)

10.41

500000

400000

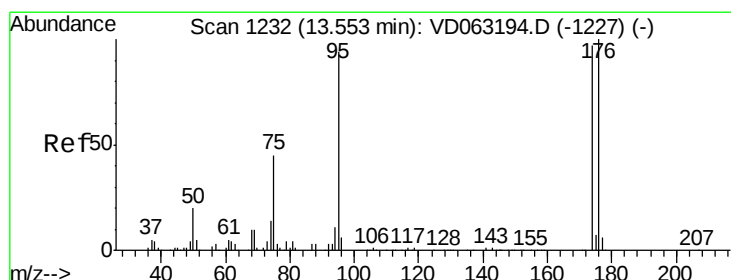
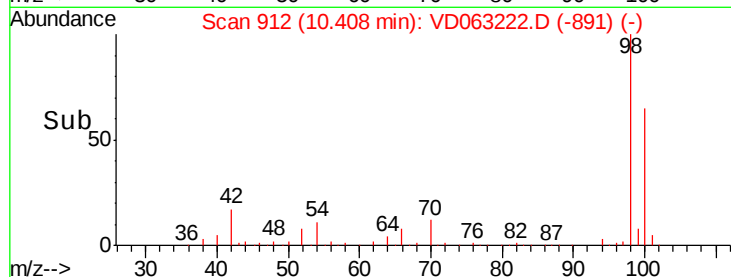
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.397 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

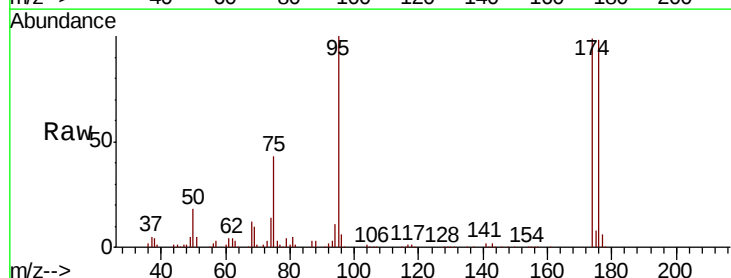
Tgt Ion: 95 Resp: 375645

Ion Ratio Lower Upper

95 100

174 98.7 0.0 205.4

176 98.3 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): VD063194.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD063194.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD063194.D (-1227) (-)

13.56

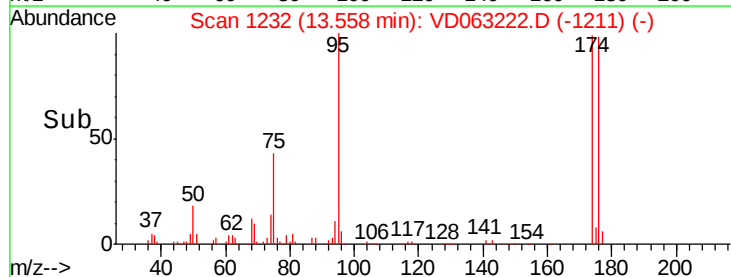
300000

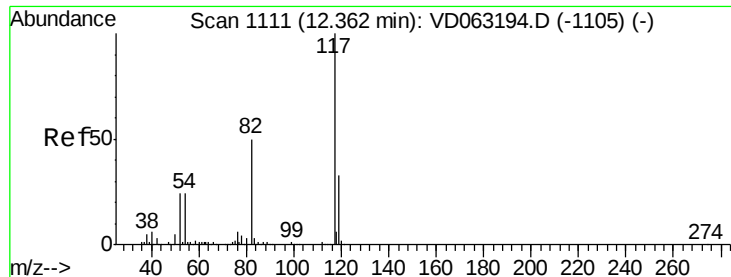
200000

100000

0

Time-->

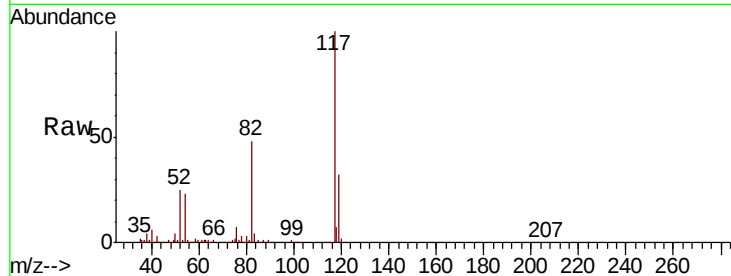




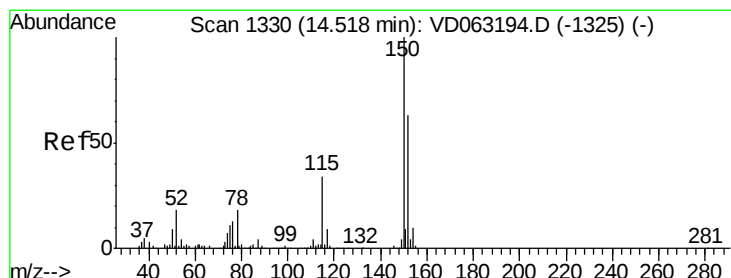
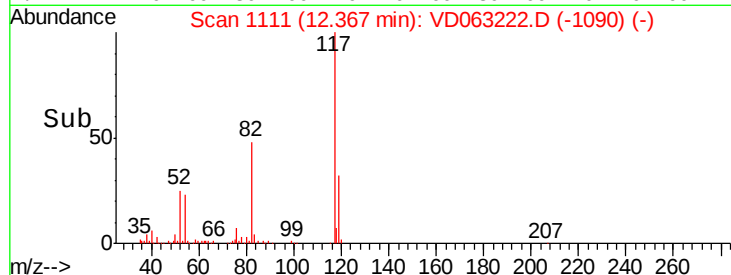
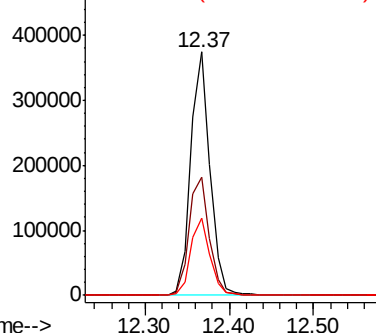
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063222.D
Acq: 30 Jul 2019 3:33

Instrument :
MSVOA_D
ClientSampleId :
SP-9

Tot Ion	Ratio	Lower	Upper
117	100		
82	48.4	40.1	60.1
119	31.6	26.5	39.7

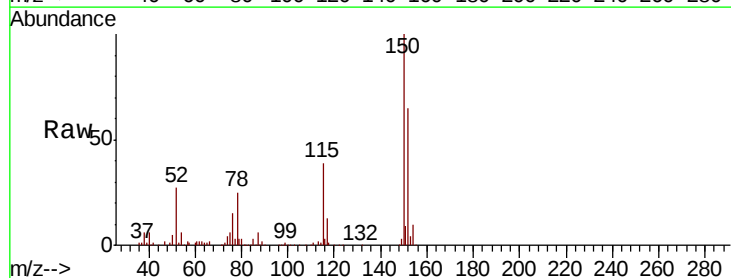


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

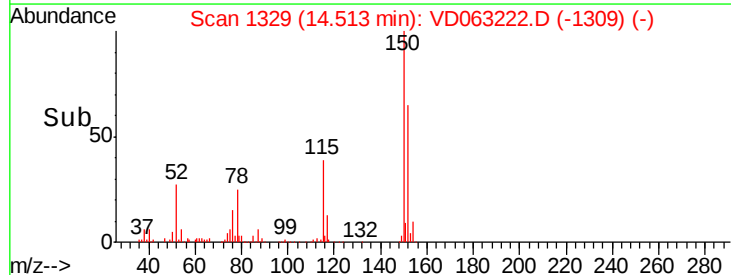
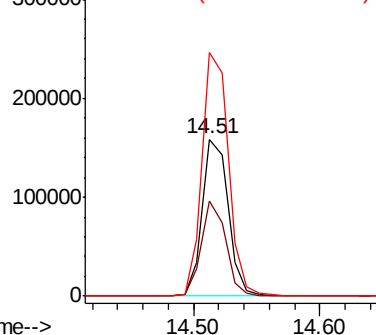


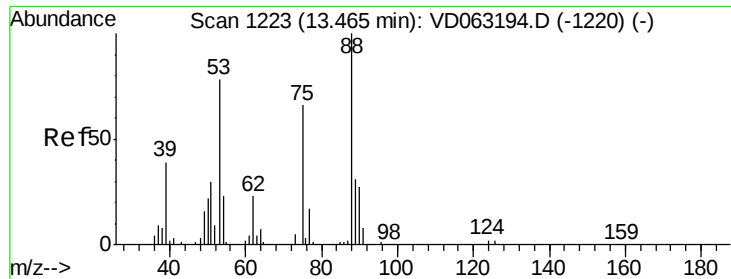
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063222.D
Acq: 30 Jul 2019 3:33

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.3	27.5	82.4
150	154.9	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





#81

trans-1,4-Dichloro-2-butene

Concen: 233.852 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD063222.D

Acq: 30 Jul 2019 3:33

Instrument :

MSVOA_D

ClientSampleId :

SP-9

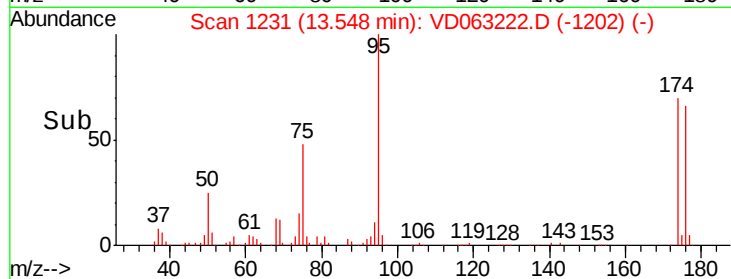
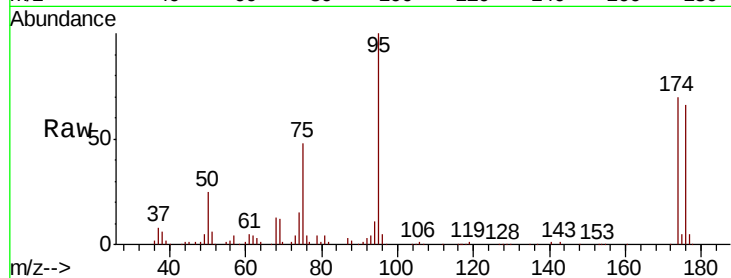
Tot Ion: 75 Resp: 174567

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.3 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

