

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070119\
 Data File : VD062991.D
 Acq On : 1 Jul 2019 15:41
 Operator : VA/AP
 Sample : K3160-09
 Misc : 6.98g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EO-01-062819-B

Quant Time: Jul 02 07:35:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	789560	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1115275	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	831685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	371282	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	429041	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
35) Dibromofluoromethane	6.93	113	460086	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
50) Toluene-d8	10.41	98	889491	43.46	ug/l	0.00
Spiked Amount			Recovery	=	86.92%	
62) 4-Bromofluorobenzene	13.55	95	357409	38.40	ug/l	0.00
Spiked Amount			Recovery	=	76.80%	

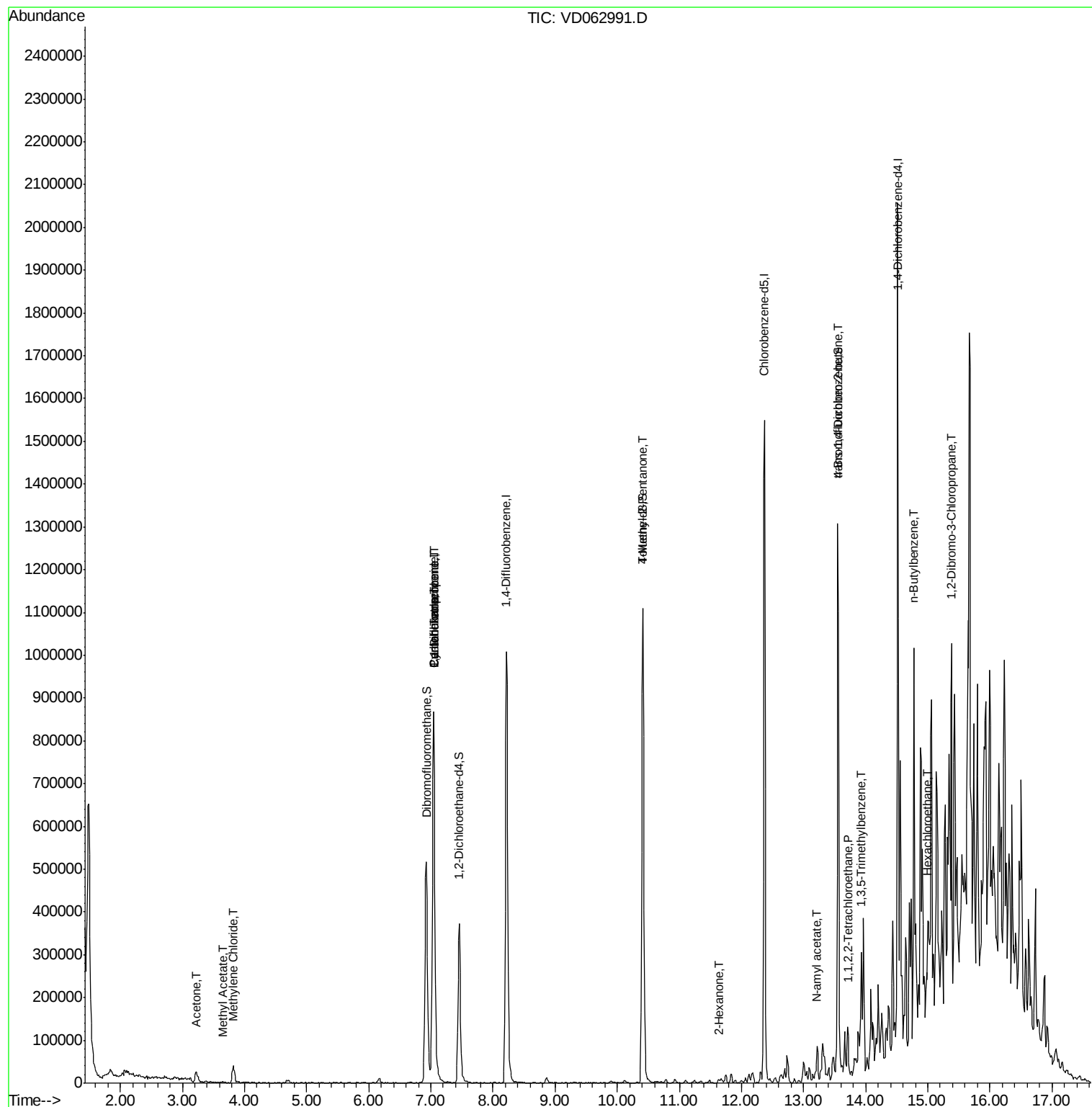
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.23	43	52268	23.699	ug/l	97
18) Methyl Acetate	3.65	43	3803	1.468	ug/l #	61
20) Methylene Chloride	3.82	84	24517	3.746	ug/l	92
31) Cyclohexane	7.05	56	21971	2.726	ug/l #	11
36) 1,1-Dichloropropene	7.05	75	64818	6.139	ug/l #	53
37) Ethyl Acetate	6.16	43	494	Below Cal	#	69
38) Carbon Tetrachloride	7.05	117	74898	4.717	ug/l #	17
51) 4-Methyl-2-Pentanone	10.40	43	5790	1.475	ug/l #	1
59) 2-Hexanone	11.64	43	3178	1.137	ug/l	66
74) N-amyl acetate	13.22	43	9979	1.726	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	13.71	83	6026	1.554	ug/l #	41
80) 1,3,5-Trimethylbenzene	13.94	105	106506	5.326	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.55	75	171515	152.683	ug/l #	2
89) n-Butylbenzene	14.77	91	106672	5.143	ug/l #	1
90) Hexachloroethane	15.00	117	14403	2.417	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	15.37	75	2766	3.654	ug/l #	26

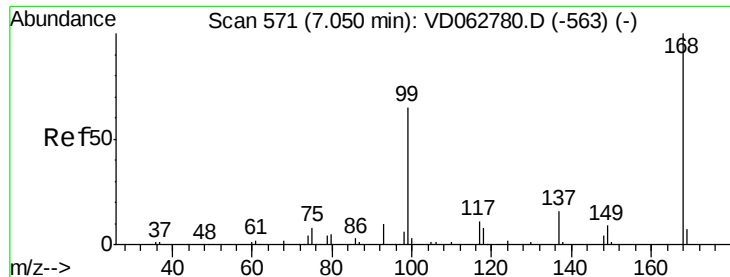
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD070119\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

Instrument :

MSVOA_D

ClientSampleId :

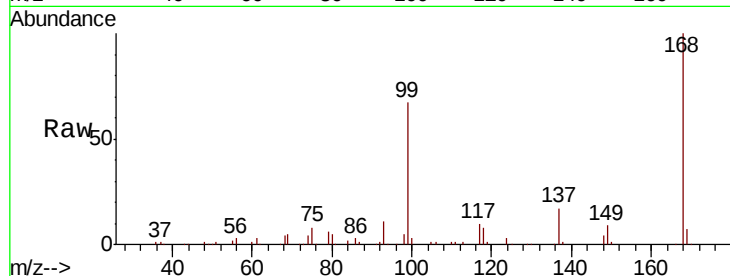
EO-01-062819-B

Tot Ion:168 Resp: 789560

Ion Ratio Lower Upper

168 100

99 67.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

300000

250000

200000

150000

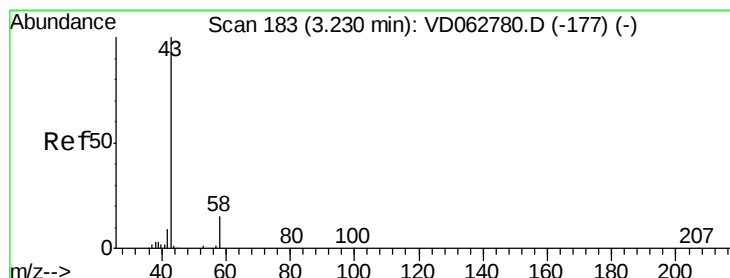
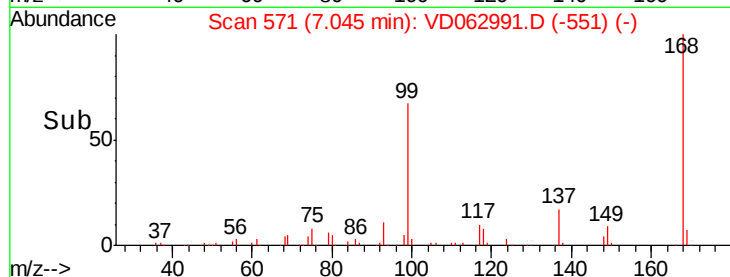
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#16

Acetone

Concen: 23.699 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD062991.D

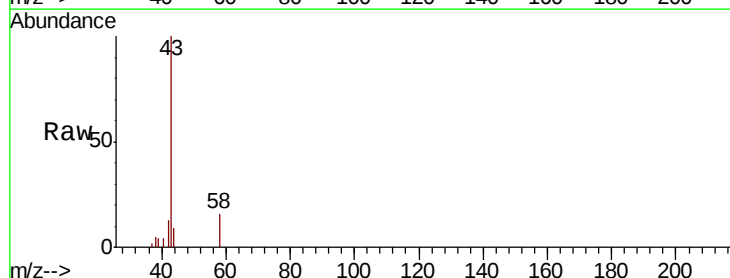
Acq: 1 Jul 2019 15:41

Tgt Ion: 43 Resp: 52268

Ion Ratio Lower Upper

43 100

58 16.2 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

20000

15000

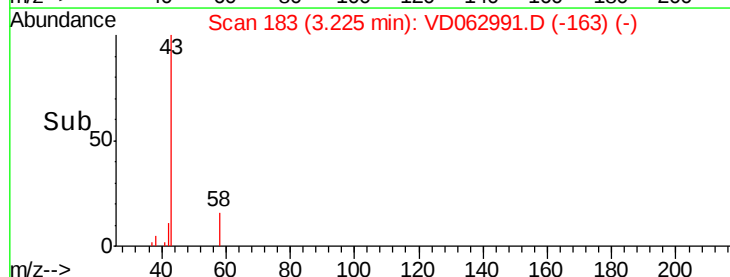
10000

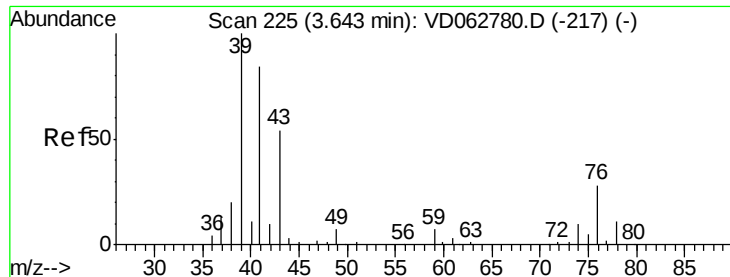
5000

0

Time-->

3.10 3.20 3.30 3.40

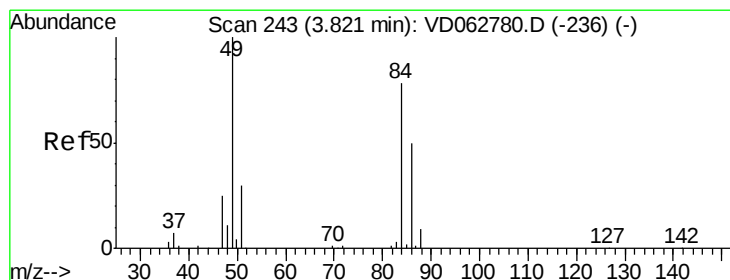
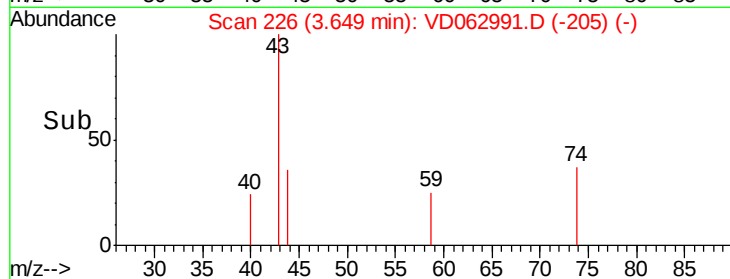
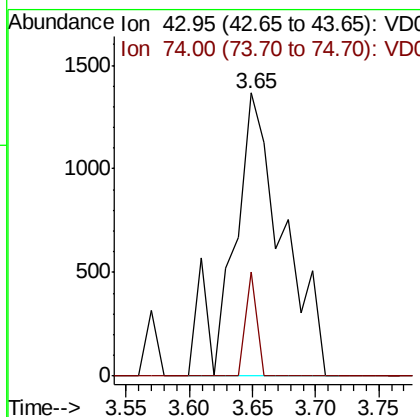
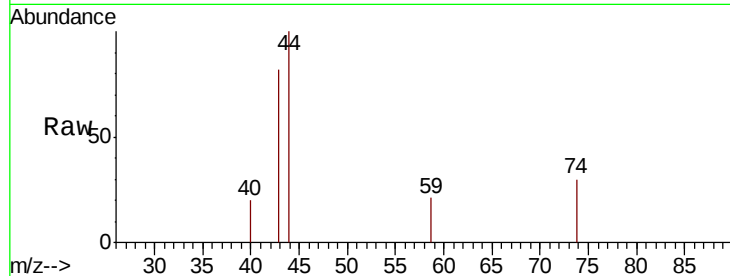




#18
Methvl Acetate
Concen: 1.468 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD062991.D
Acq: 1 Jul 2019 15:41

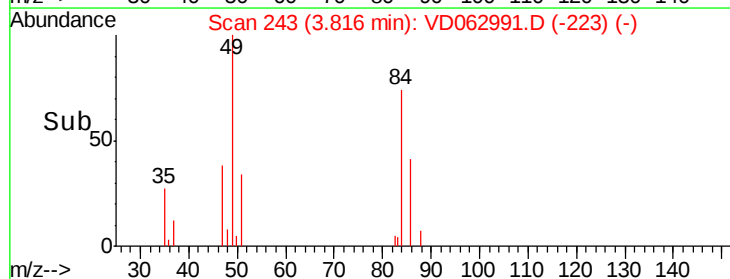
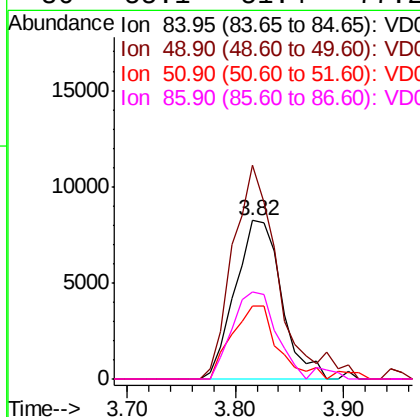
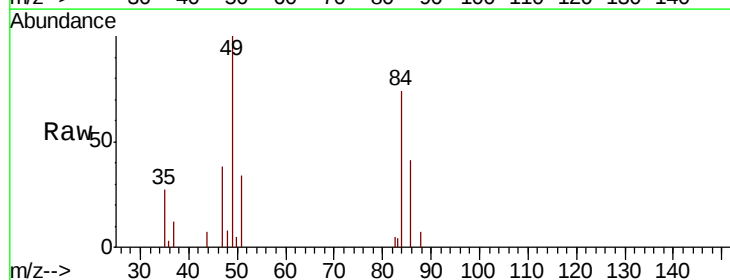
Instrument :
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EO-01-062819-B

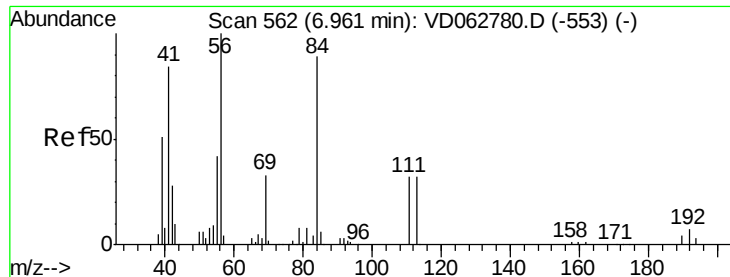
Tot Ion: 43 Resp: 3803
Ion Ratio Lower Upper
43 100
74 36.7 15.2 22.8#



#20
Methylene Chloride
Concen: 3.746 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD062991.D
Acq: 1 Jul 2019 15:41

Tgt Ion: 84 Resp: 24517
Ion Ratio Lower Upper
84 100
49 135.1 102.9 154.3
51 45.8 31.2 46.8
86 55.1 51.4 77.2

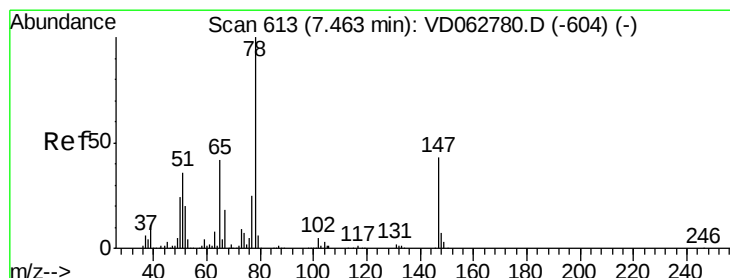
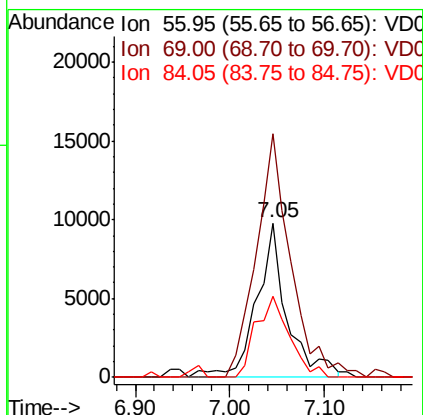
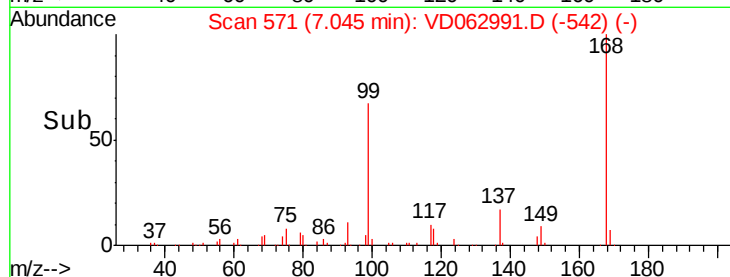
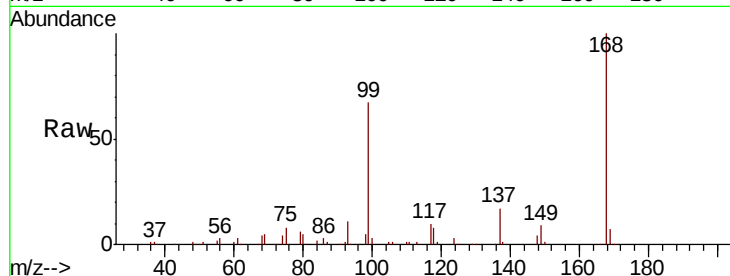




#31
Cvclohexane
Concen: 2.726 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.08 min
Lab File: VD062991.D
Acq: 1 Jul 2019 15:41

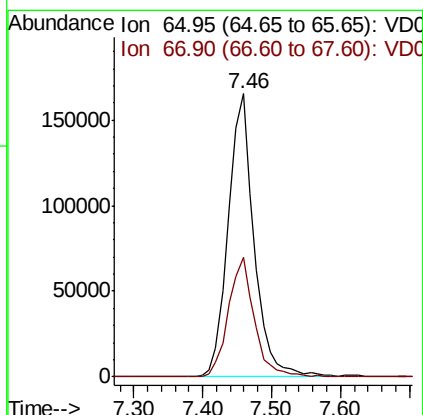
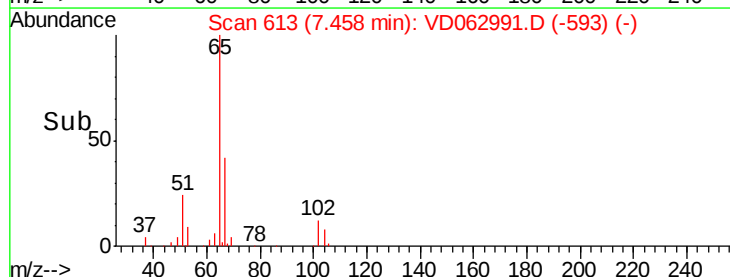
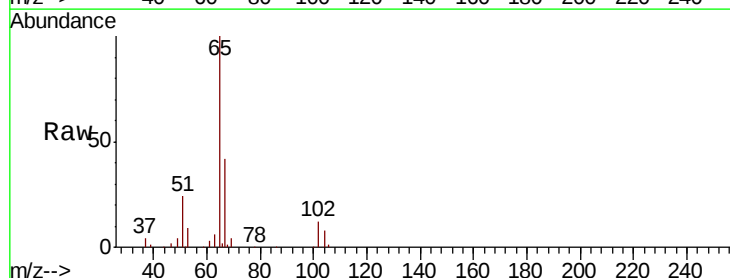
Instrument :
MSVOA_D
ClientSampleId :
EO-01-062819-B

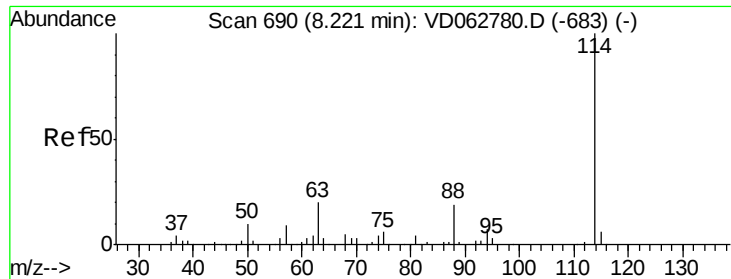
Tot Ion: 56 Resp: 21971
Ion Ratio Lower Upper
56 100
69 157.6 26.6 39.8#
84 52.2 75.5 113.3#



#33
1,2-Dichloroethane-d4
Concen: 49.991 ug/l
RT: 7.46 min Scan# 613
Delta R.T. -0.00 min
Lab File: VD062991.D
Acq: 1 Jul 2019 15:41

Tgt Ion: 65 Resp: 429041
Ion Ratio Lower Upper
65 100
67 42.4 0.0 87.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

Instrument :

MSVOA_D

ClientSampleId :

EO-01-062819-B

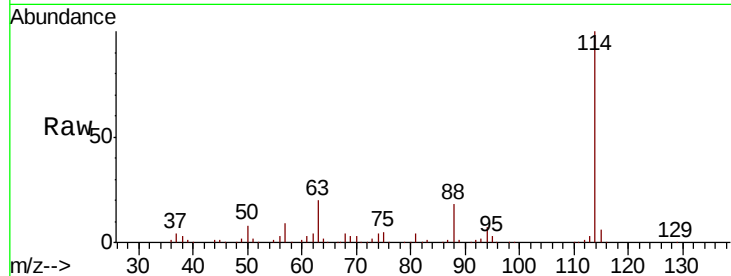
Tot Ion:114 Resp: 1115275

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.0

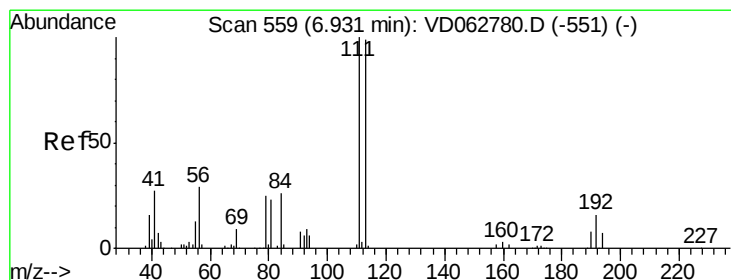
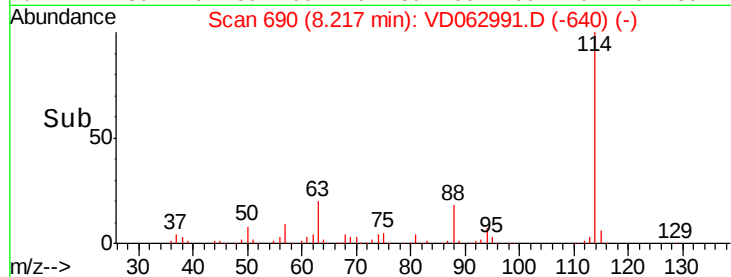
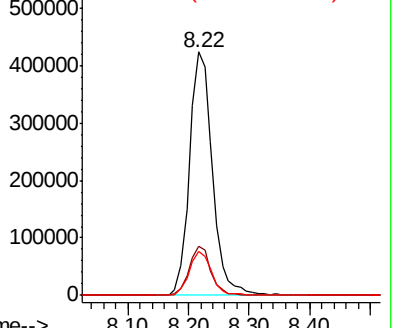
88 18.0 0.0 38.8



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: 48.925 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

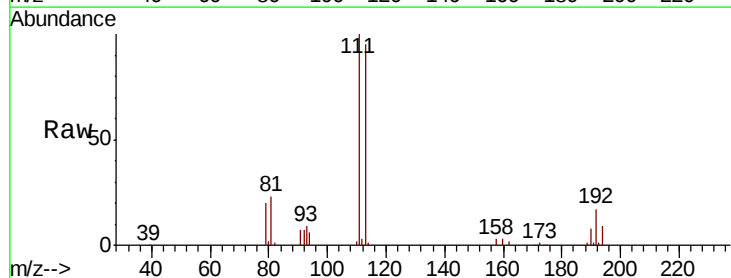
Tgt Ion:113 Resp: 460086

Ion Ratio Lower Upper

113 100

111 105.0 81.2 121.8

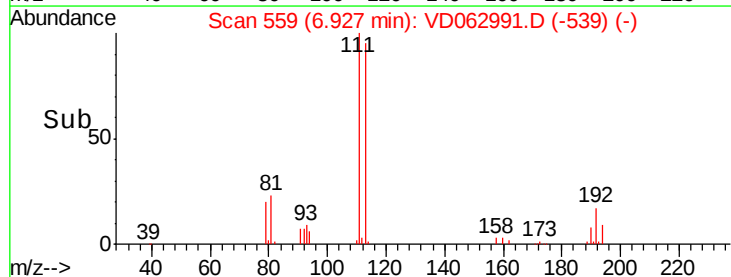
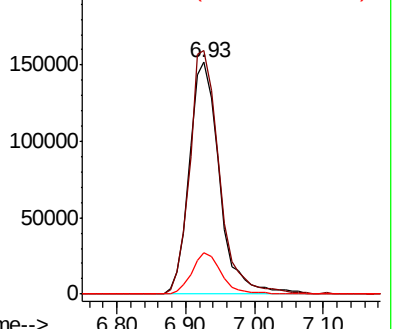
192 17.6 12.9 19.3

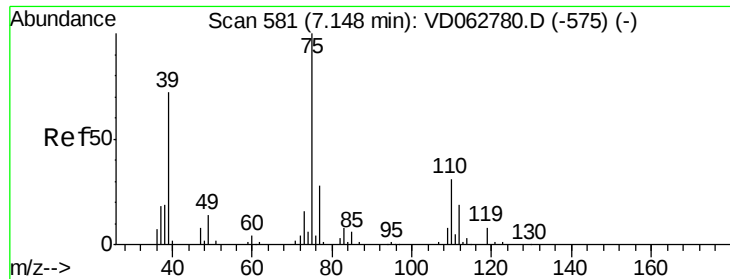


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.139 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

Instrument :

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ClientSampleId :

EO-01-062819-B

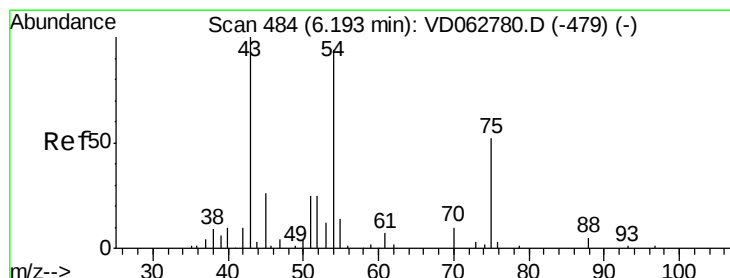
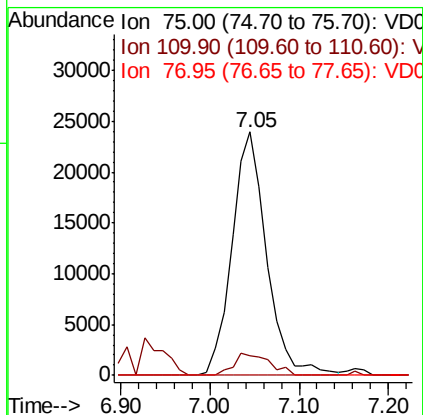
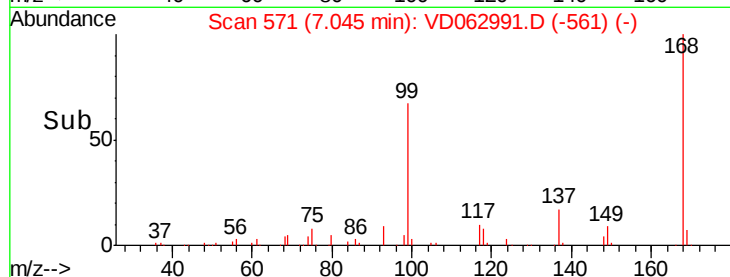
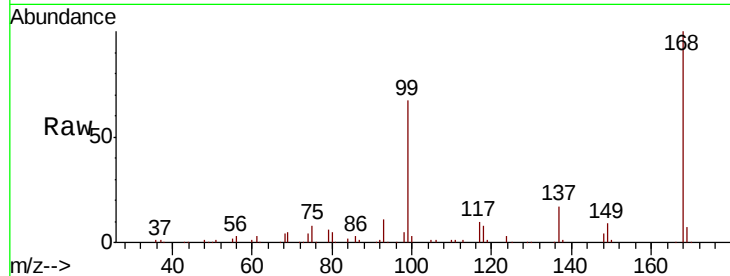
Tot Ion: 75 Resp: 64818

Ion Ratio Lower Upper

75 100

110 8.0 15.0 45.1#

77 0.0 22.2 33.2#



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.16 min Scan# 481

Delta R.T. -0.03 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

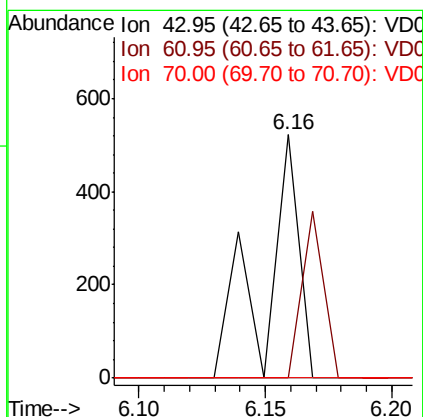
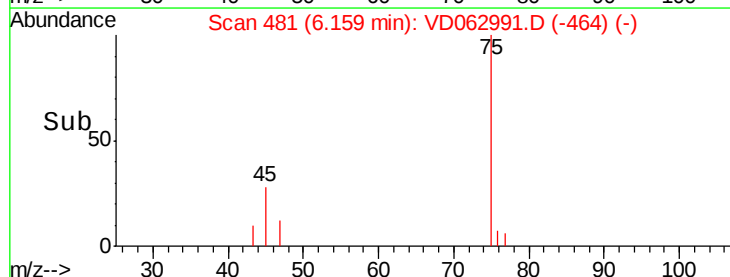
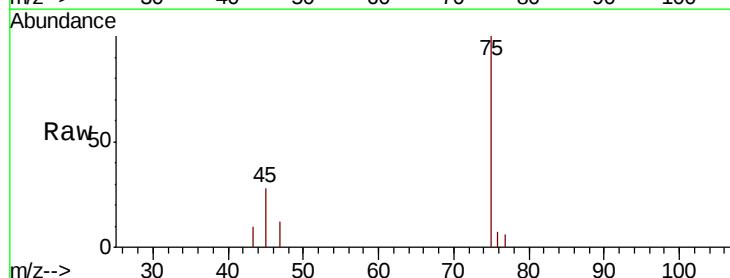
Tgt Ion: 43 Resp: 494

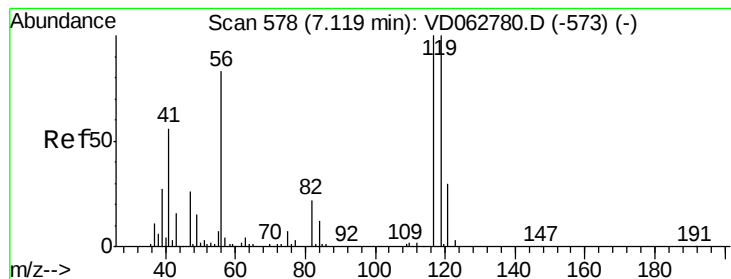
Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

70 0.0 6.4 9.6#





#38

Carbon Tetrachloride

Concen: 4.717 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

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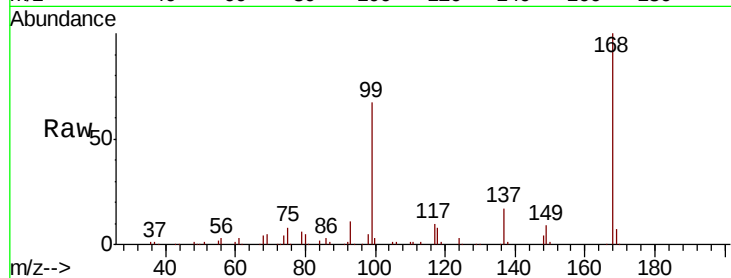
Tot Ion:117 Resp: 74898

Ion Ratio Lower Upper

117 100

119 5.2 75.4 113.2#

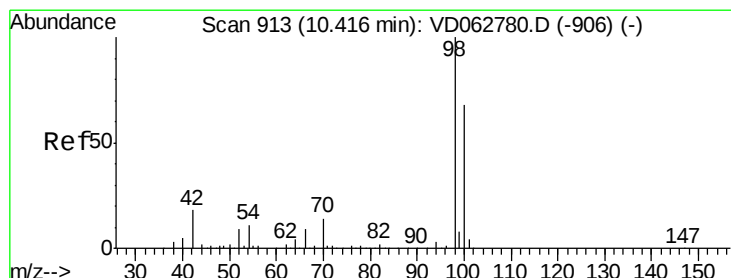
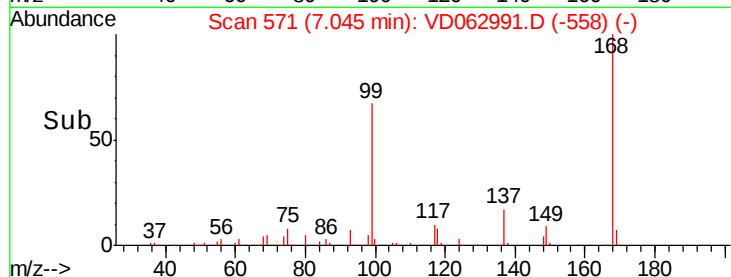
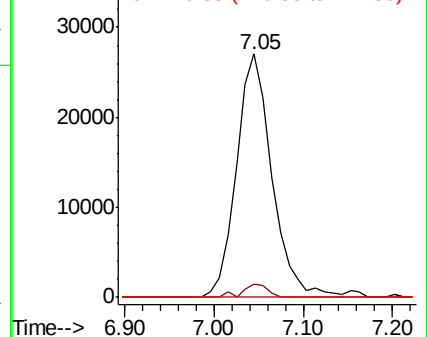
121 0.0 22.3 33.5#



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: 43.459 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD062991.D

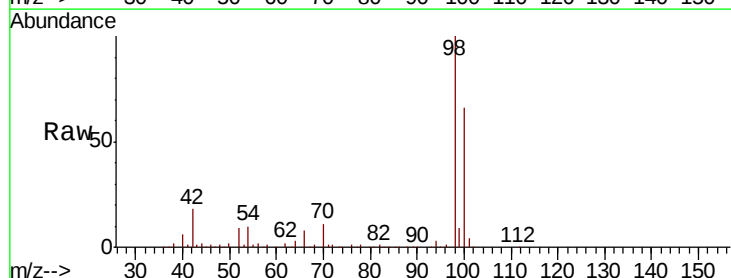
Acq: 1 Jul 2019 15:41

Tgt Ion: 98 Resp: 889491

Ion Ratio Lower Upper

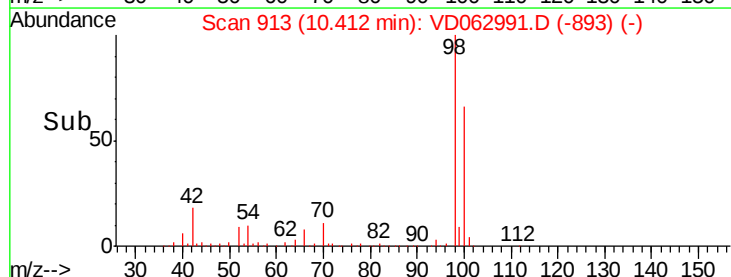
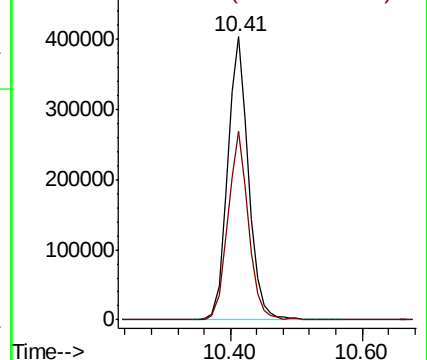
98 100

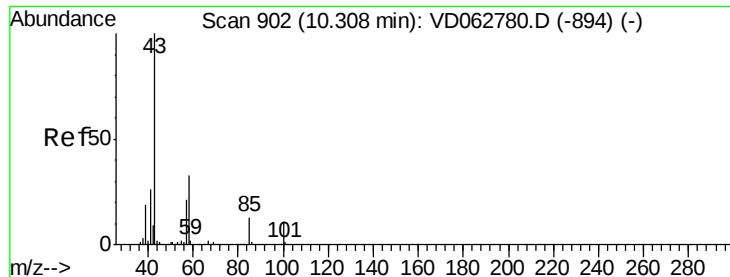
100 66.4 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

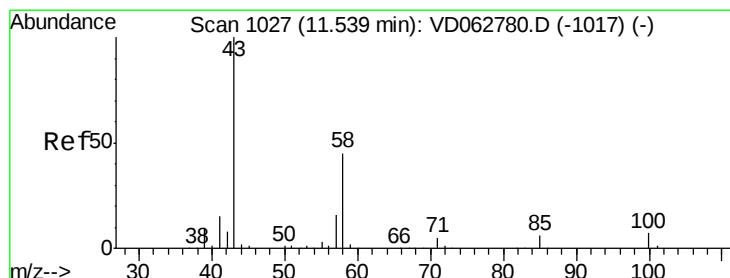
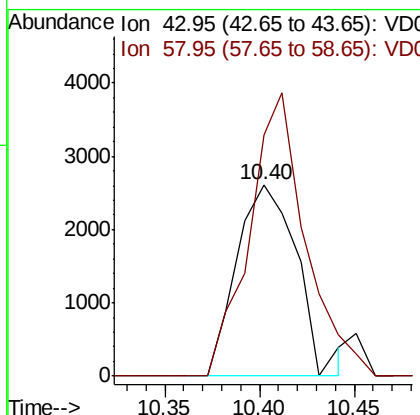
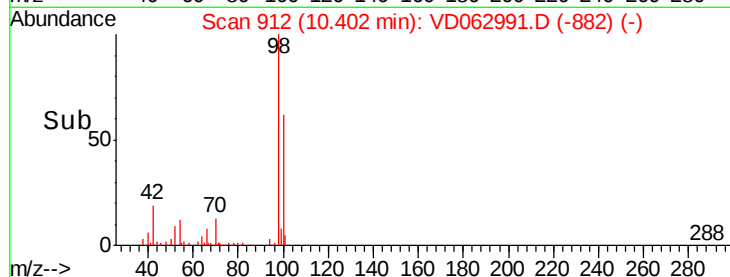
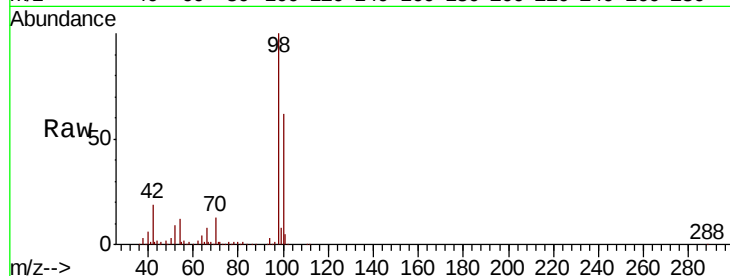




#51
 4-Methyl-2-Pentanone
 Concen: 1.475 ug/l
 RT: 10.40 min Scan# 912
 Delta R.T. 0.09 min
 Lab File: VD062991.D
 Acq: 1 Jul 2019 15:41

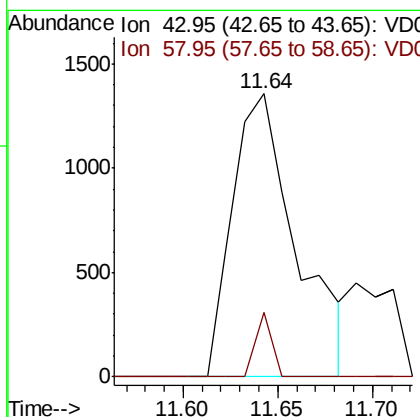
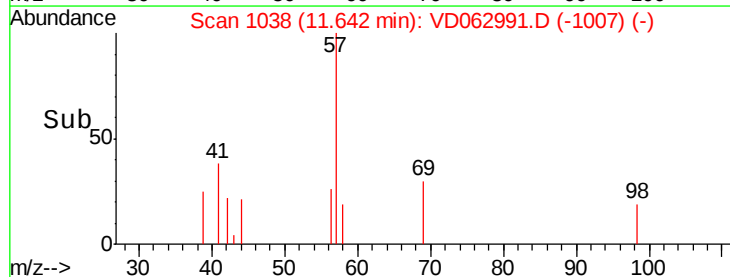
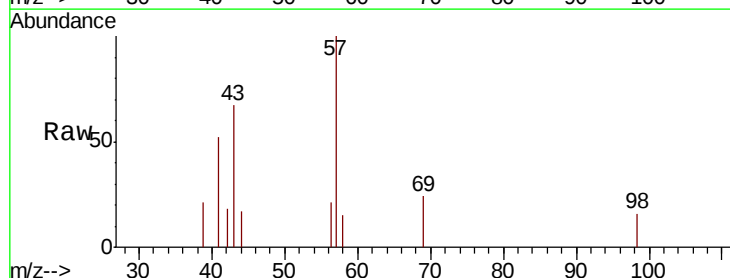
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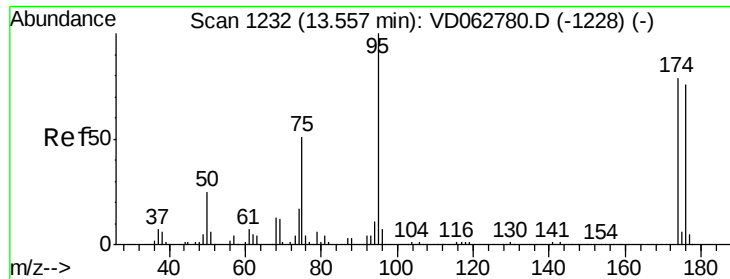
Tot Ion: 43 Resp: 5790
 Ion Ratio Lower Upper
 43 100
 58 125.7 26.6 40.0#



#59
 2-Hexanone
 Concen: 1.137 ug/l
 RT: 11.64 min Scan# 1038
 Delta R.T. 0.10 min
 Lab File: VD062991.D
 Acq: 1 Jul 2019 15:41

Tgt Ion: 43 Resp: 3178
 Ion Ratio Lower Upper
 43 100
 58 22.6 22.4 67.2

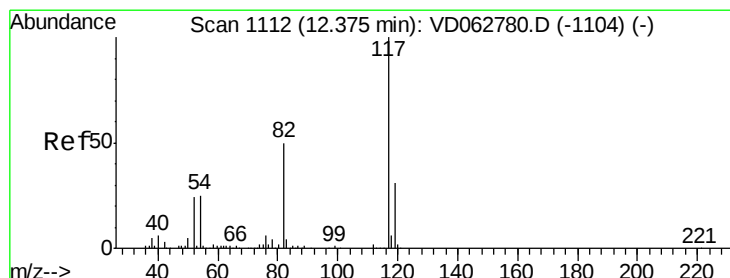
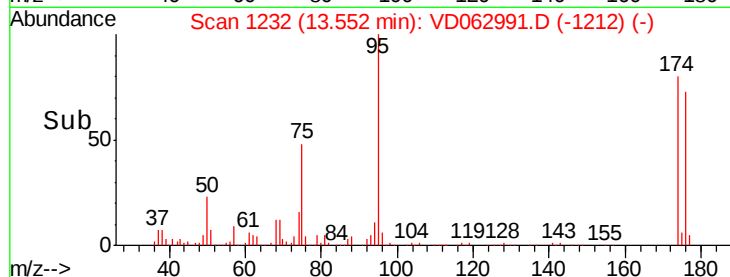
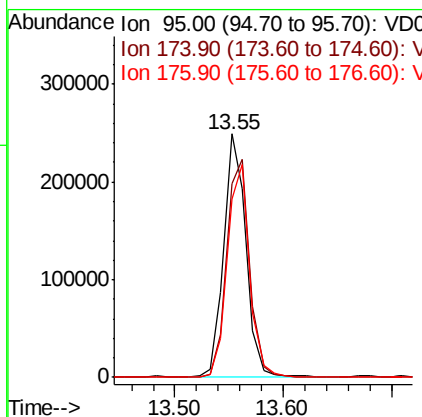
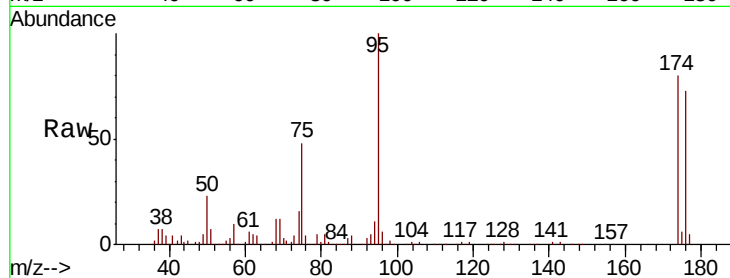




#62
4-Bromofluorobenzene
Concen: 38.404 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD062991.D
Acq: 1 Jul 2019 15:41

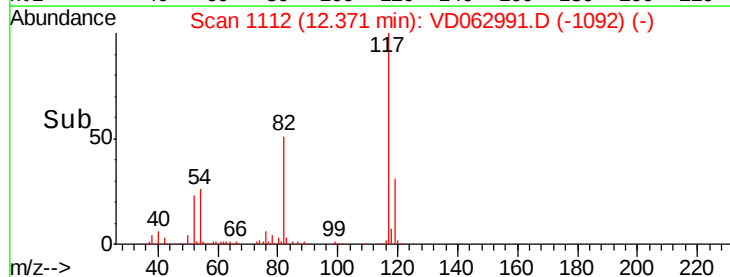
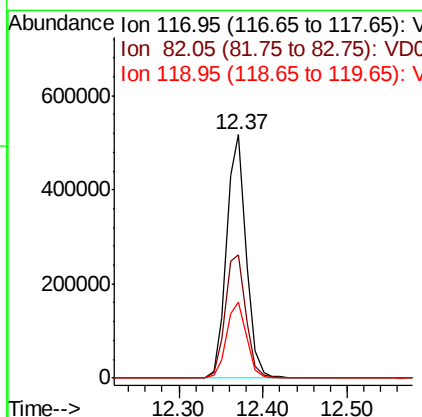
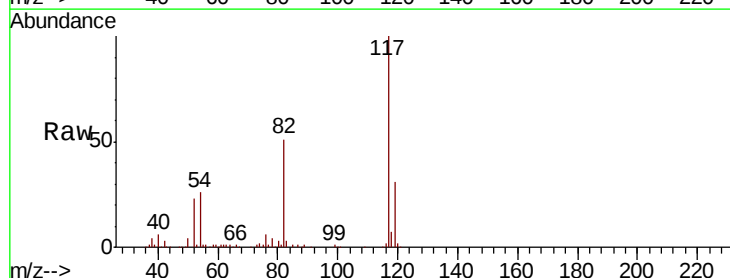
Instrument :
MSVOA_D
ClientSampleId :
EO-01-062819-B

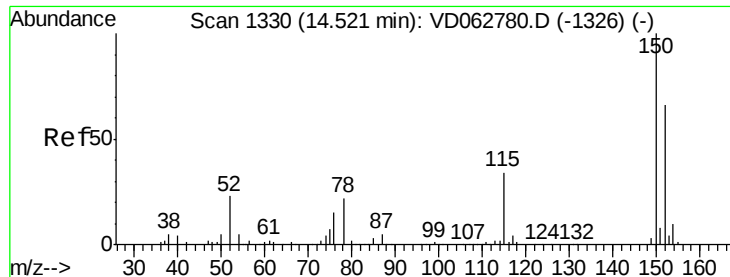
Tot Ion: 95 Resp: 357409
Ion Ratio Lower Upper
95 100
174 79.5 0.0 158.0
176 73.2 0.0 151.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD062991.D
Acq: 1 Jul 2019 15:41

Tgt Ion: 117 Resp: 831685
Ion Ratio Lower Upper
117 100
82 50.5 40.4 60.6
119 31.3 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

Instrument :

MSVOA_D

ClientSampleId :

EO-01-062819-B

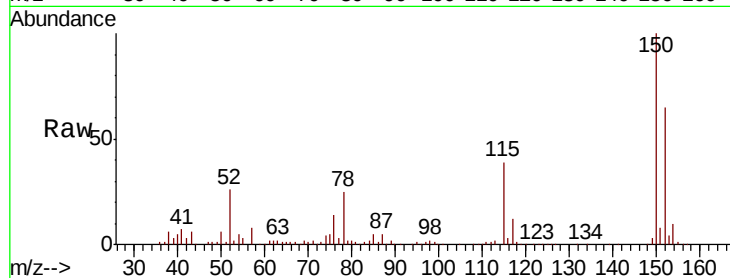
Tot Ion:152 Resp: 371282

Ion Ratio Lower Upper

152 100

115 60.2 29.2 87.6

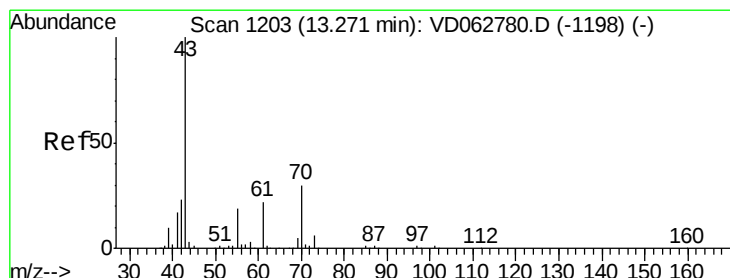
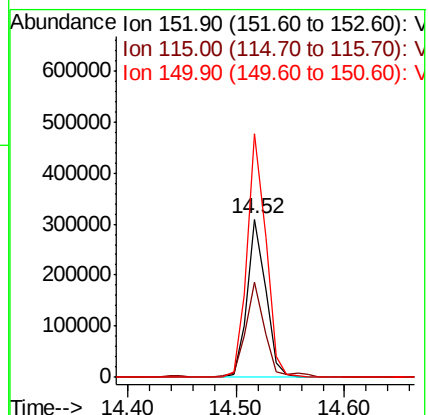
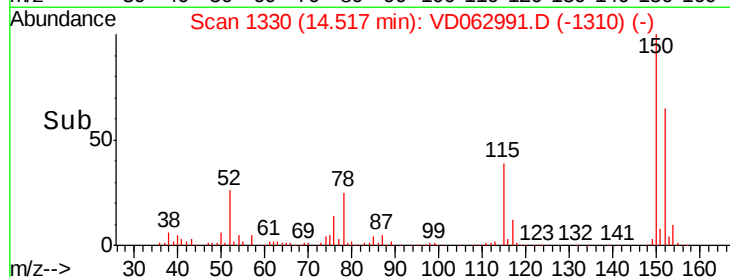
150 153.6 0.0 305.8



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



#74

N-ethyl acetate

Concen: 1.726 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.05 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

Tgt Ion: 43 Resp: 9979

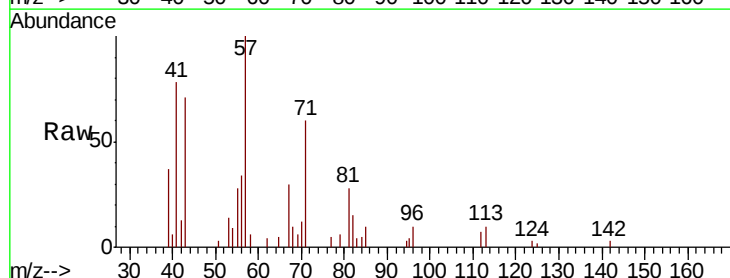
Ion Ratio Lower Upper

43 100

70 16.6 24.4 36.6#

55 40.1 15.2 22.8#

61 0.0 17.4 26.2#

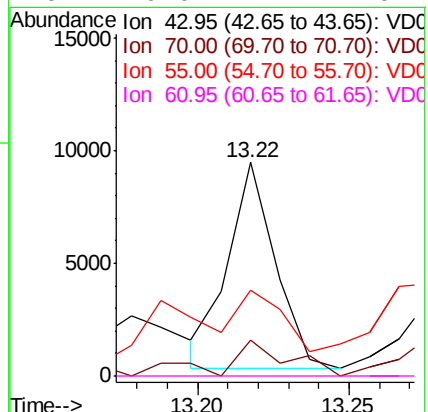
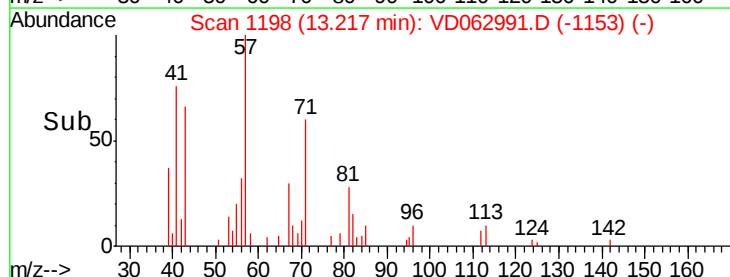


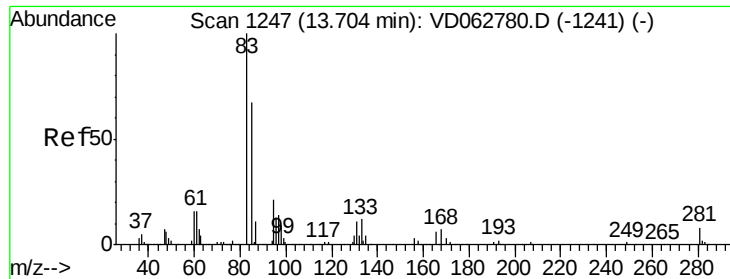
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 1.554 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

Instrument :

MSVOA_D

ClientSampleId :

EO-01-062819-B

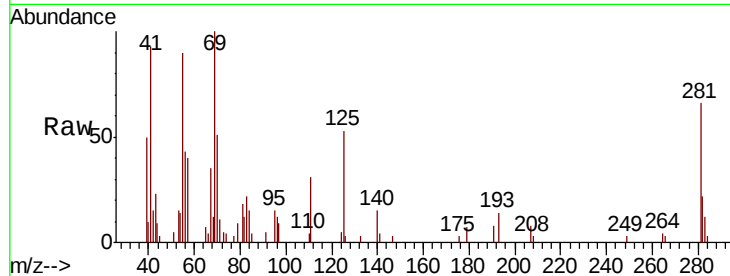
Tot Ion: 83 Resp: 6026

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

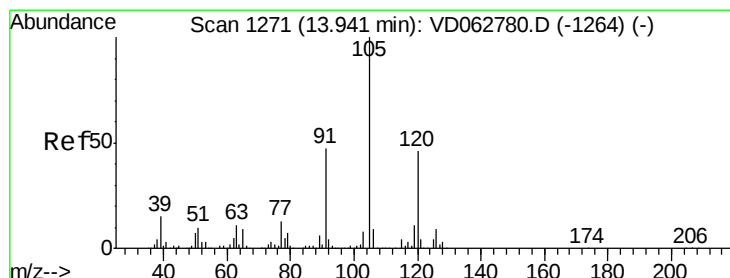
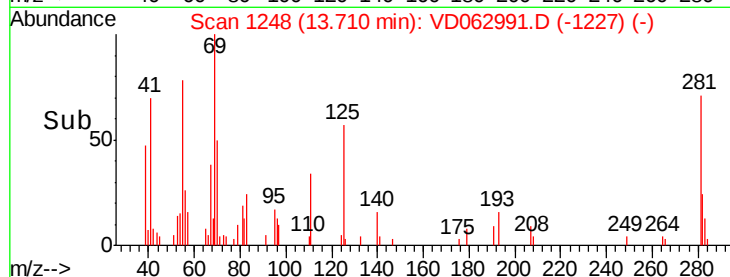
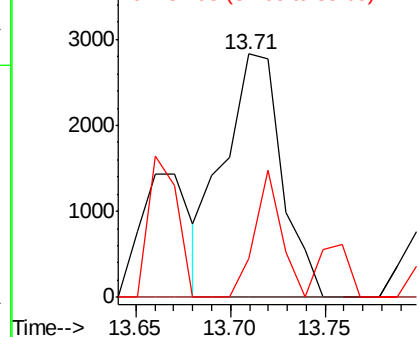
85 16.1 33.7 101.1#



Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V



#80

1,3,5-Trimethylbenzene

Concen: 5.326 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD062991.D

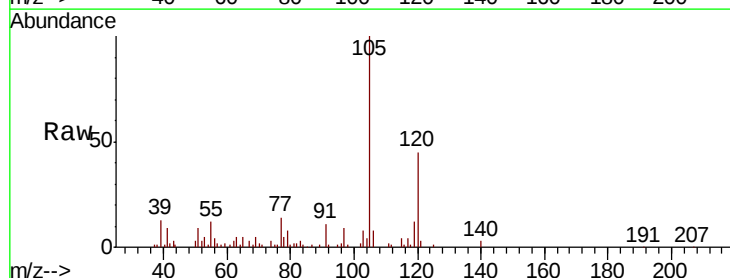
Acq: 1 Jul 2019 15:41

Tgt Ion:105 Resp: 106506

Ion Ratio Lower Upper

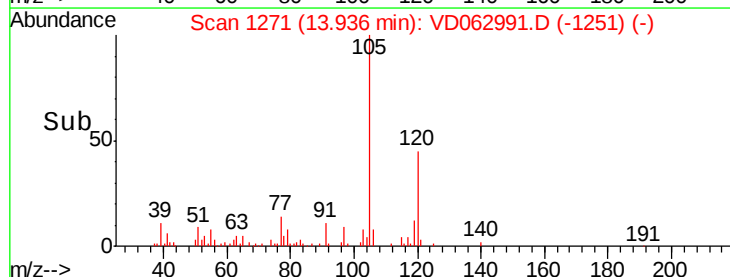
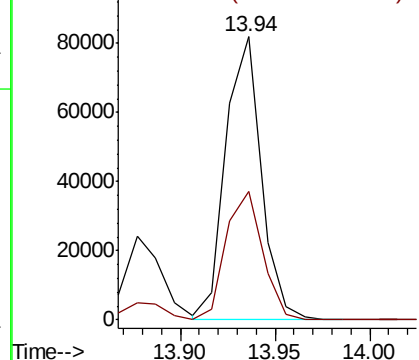
105 100

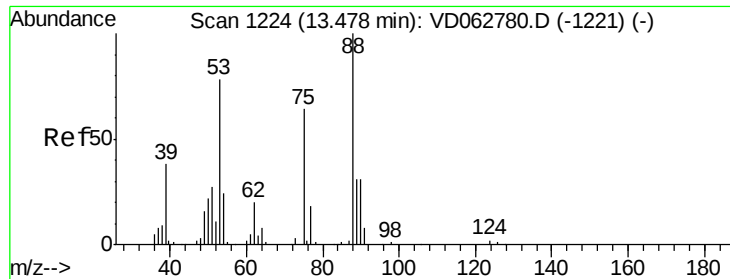
120 45.5 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 152.683 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

Instrument :

MSVOA_D

ClientSampleId :

EO-01-062819-B

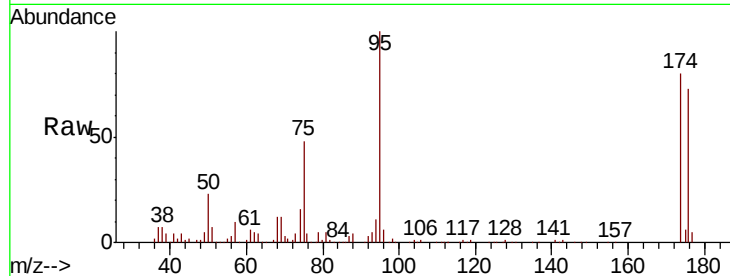
Tot Ion: 75 Resp: 171515

Ion Ratio Lower Upper

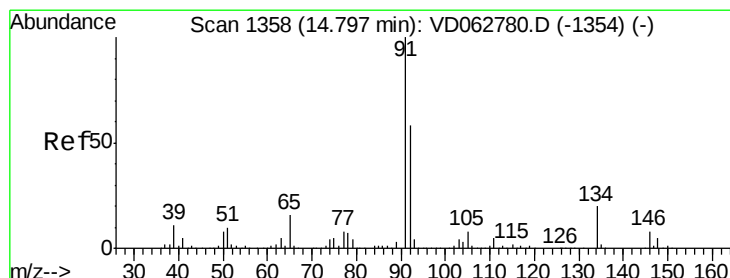
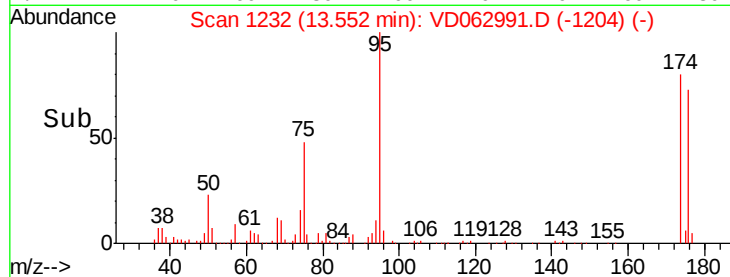
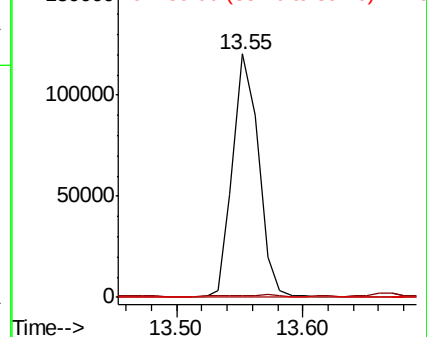
75 100

53 0.5 97.8 146.8#

89 0.0 39.4 59.2#



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



#89

n-Butylbenzene

Concen: 5.143 ug/l

RT: 14.77 min Scan# 1356

Delta R.T. -0.02 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

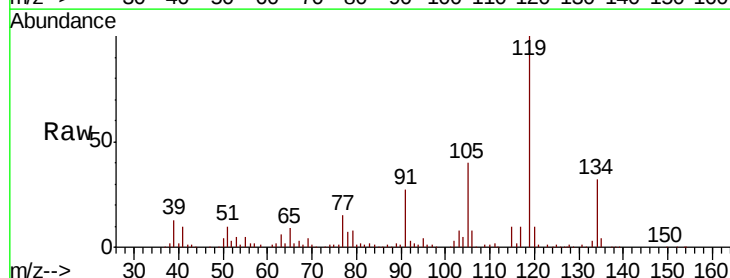
Tgt Ion: 91 Resp: 106672

Ion Ratio Lower Upper

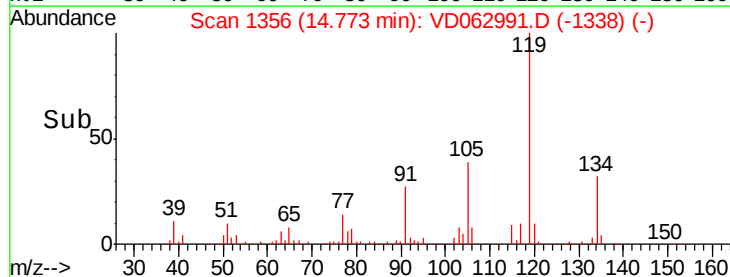
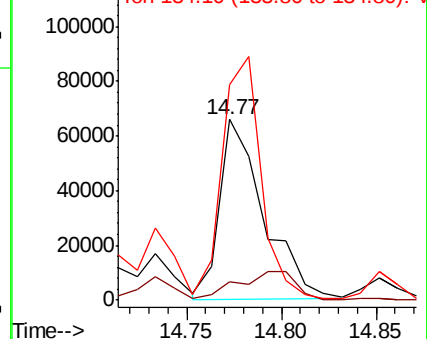
91 100

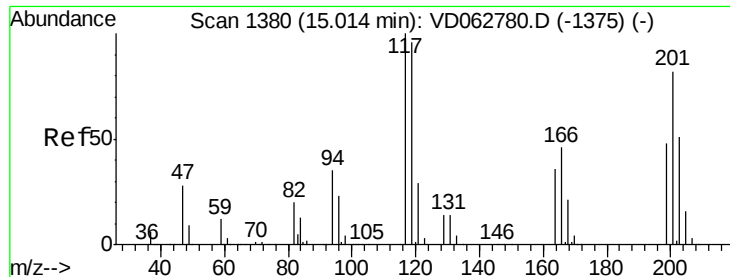
92 10.2 28.9 86.7#

134 119.0 10.1 30.3#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V





#90

Hexachloroethane

Concen: 2.417 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

Instrument :

MSVOA_D

ClientSampleId :

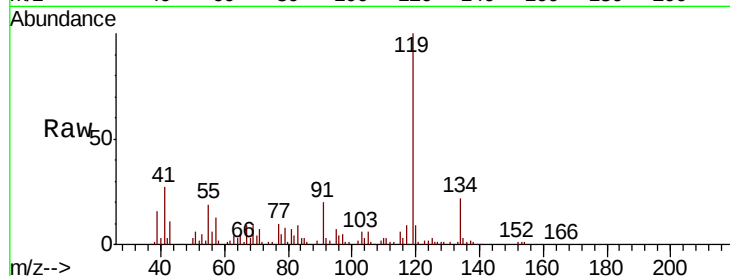
EO-01-062819-B

Tot Ion:117 Resp: 14403

Ion Ratio Lower Upper

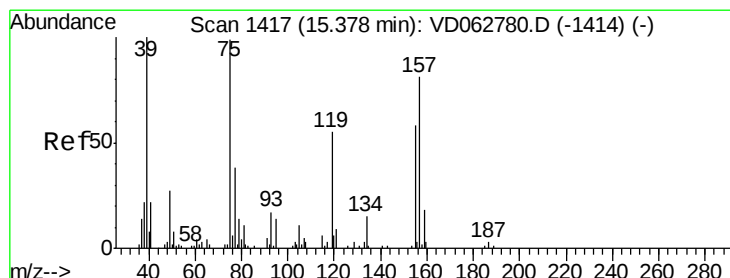
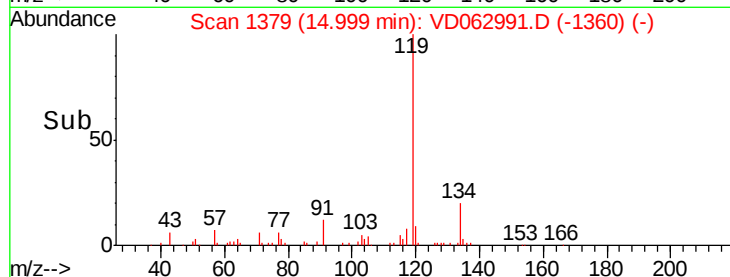
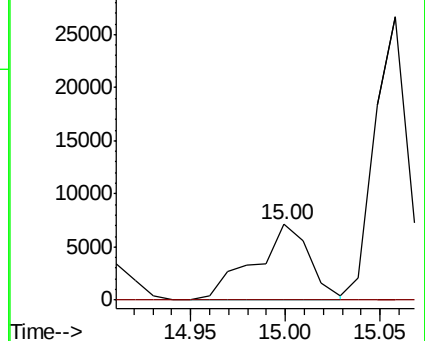
117 100

201 0.0 40.8 122.2#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.654 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VD062991.D

Acq: 1 Jul 2019 15:41

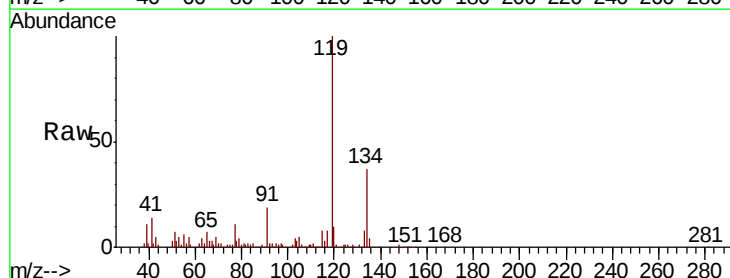
Tgt Ion: 75 Resp: 2766

Ion Ratio Lower Upper

75 100

155 21.9 29.3 87.8#

157 0.0 41.3 123.7#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

