

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082019\
 Data File : VD063692.D
 Acq On : 20 Aug 2019 18:40
 Operator : JC/SY
 Sample : K4388-08
 Misc : 6.32g/5ml/MSVOA D/SOIL
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T4-C-(0)

Quant Time: Aug 21 03:52:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	29016	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.20	114	49977	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	49850	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	21347	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	45204	145.74	ug/l	-0.02
Spiked Amount			Recovery	=	291.48%	
35) Dibromofluoromethane	6.91	113	34670	82.37	ug/l	-0.02
Spiked Amount			Recovery	=	164.74%	
50) Toluene-d8	10.40	98	47400	51.22	ug/l	-0.02
Spiked Amount			Recovery	=	102.44%	
62) 4-Bromofluorobenzene	13.55	95	23152	55.20	ug/l	-0.01
Spiked Amount			Recovery	=	110.40%	

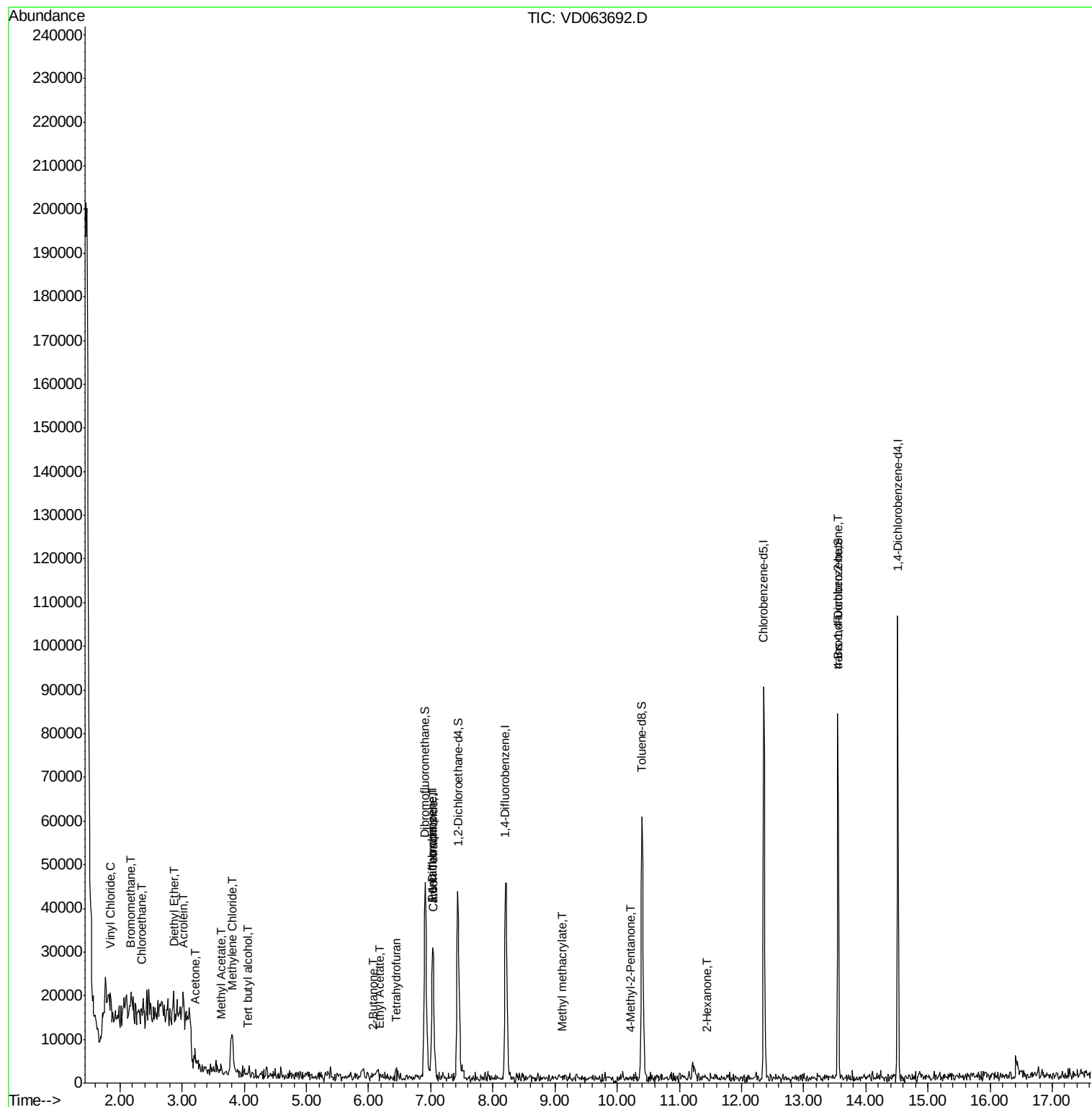
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.84	62	283	1.039	ug/l #	42
5) Bromomethane	2.17	94	3157	24.573	ug/l #	3
6) Chloroethane	2.35	64	203	1.630	ug/l #	1
8) Diethyl Ether	2.87	74	601	7.970	ug/l	85
11) Tert butyl alcohol	4.05	59	203	15.035	ug/l #	71
13) Acrolein	3.02	56	207	15.576	ug/l #	1
16) Acetone	3.21	43	3579	56.765	ug/l #	65
18) Methyl Acetate	3.62	43	2520	21.101	ug/l #	57
20) Methylene Chloride	3.81	84	7069	25.929	ug/l #	78
25) 2-Butanone	6.08	43	263	4.224	ug/l #	58
29) Tetrahydrofuran	6.44	42	544	18.748	ug/l #	35
36) 1,1-Dichloropropene	7.03	75	1409	3.189	ug/l #	42
37) Ethyl Acetate	6.18	43	490	2.647	ug/l #	73
38) Carbon Tetrachloride	7.05	117	2596	3.899	ug/l #	13
48) Methyl methacrylate	9.12	41	280	1.665	ug/l #	18
51) 4-Methyl-2-Pentanone	10.22	43	185	1.090	ug/l #	40
59) 2-Hexanone	11.44	43	316	2.560	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.55	75	10311	156.589	ug/l #	1

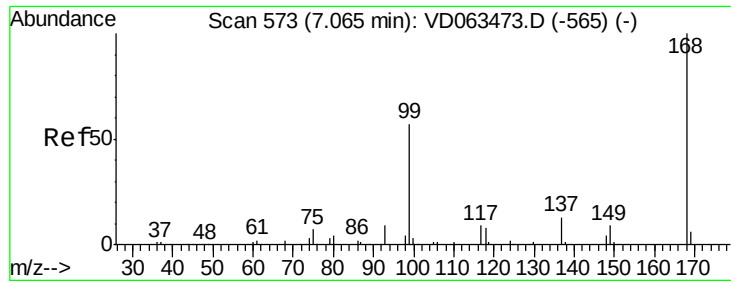
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD063692.D

Acq: 20 Aug 2019 18:40

Instrument :

MSVOA_D

ClientSampleId :

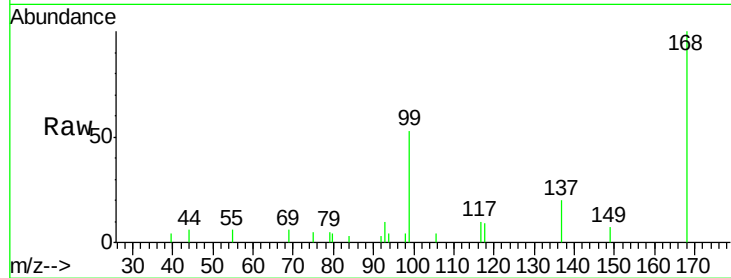
T4-C-(0)

Tot Ion:168 Resp: 29016

Ion Ratio Lower Upper

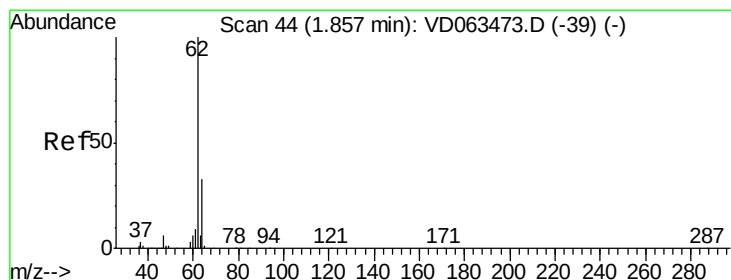
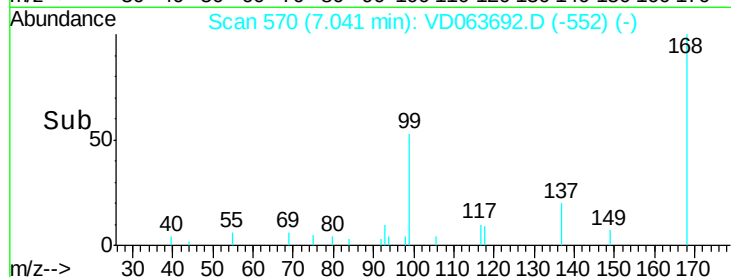
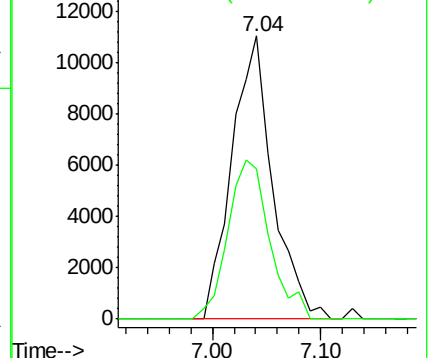
168 100

99 53.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#4

Vinyl Chloride

Concen: 1.039 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.01 min

Lab File: VD063692.D

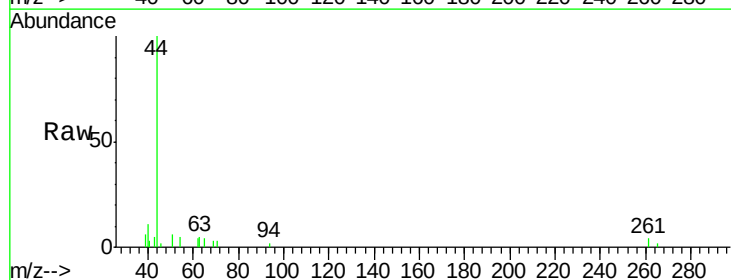
Acq: 20 Aug 2019 18:40

Tgt Ion: 62 Resp: 283

Ion Ratio Lower Upper

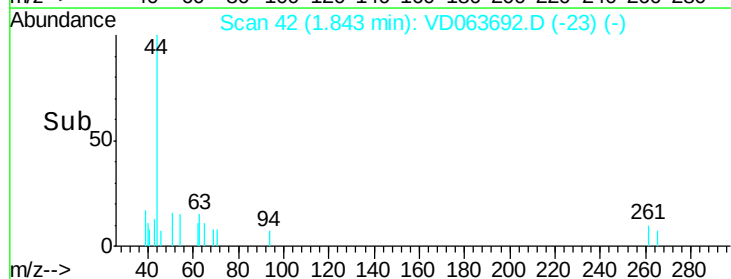
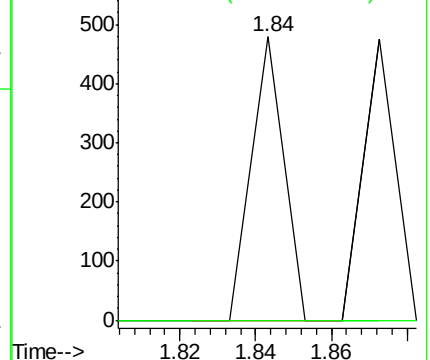
62 100

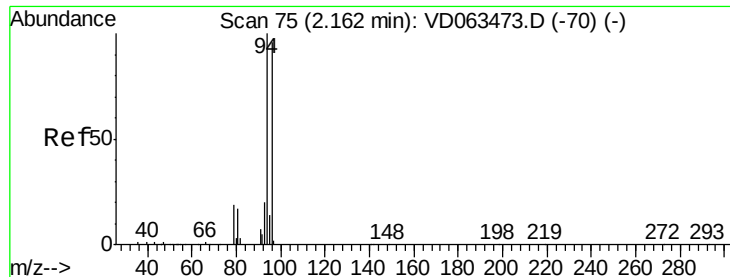
64 0.0 26.4 39.6#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 24.573 ug/l

RT: 2.17 min Scan# 75

Delta R.T. 0.01 min

Lab File: VD063692.D

Acq: 20 Aug 2019 18:40

Instrument :

MSVOA_D

ClientSampleId :

T4-C-(0)

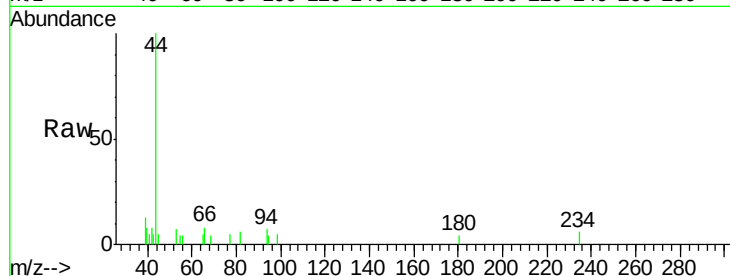
Tot Ion: 94 Resp: 3157

Ion Ratio Lower Upper

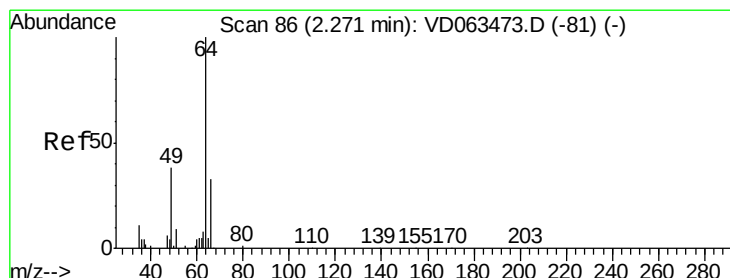
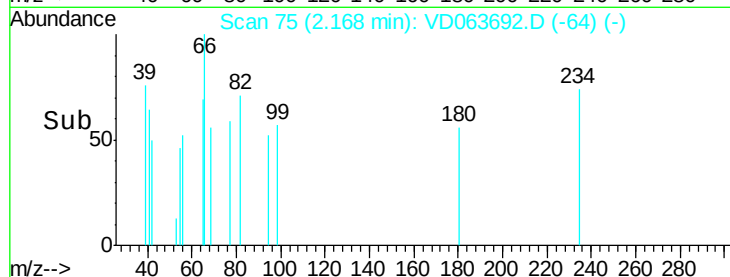
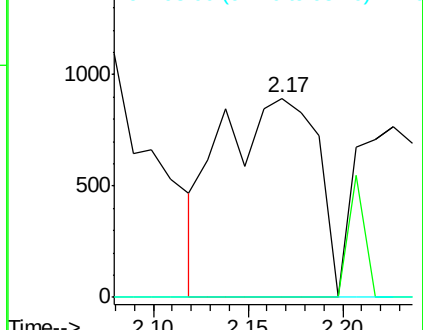
94 100

96 0.0 76.5 114.7#

93 62.2 15.8 23.8#



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 1.630 ug/l

RT: 2.35 min Scan# 94

Delta R.T. 0.08 min

Lab File: VD063692.D

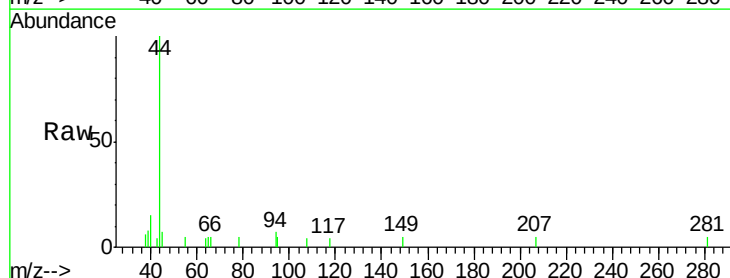
Acq: 20 Aug 2019 18:40

Tgt Ion: 64 Resp: 203

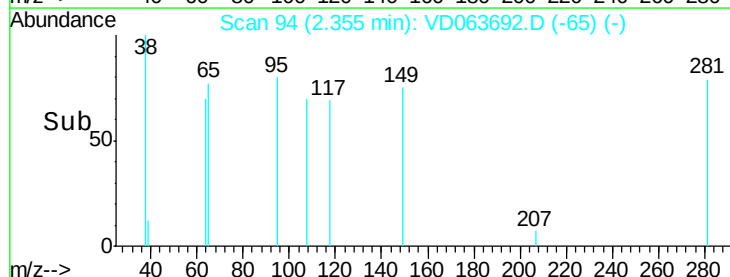
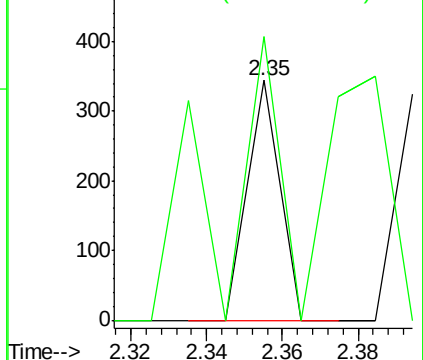
Ion Ratio Lower Upper

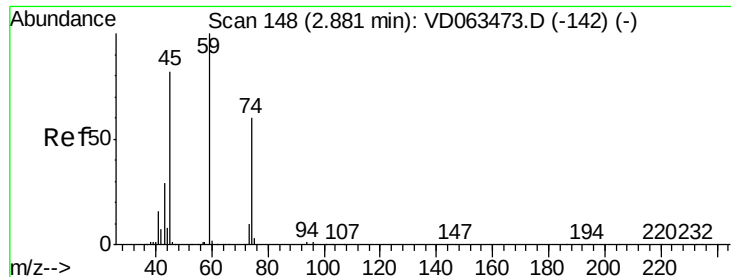
64 100

66 118.3 26.3 39.5#



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC





#8

Diethyl Ether

Concen: 7.970 ug/l

RT: 2.87 min Scan# 146

Delta R.T. -0.01 min

Lab File: VD063692.D

Acq: 20 Aug 2019 18:40

Instrument :

MSVOA_D

ClientSampleId :

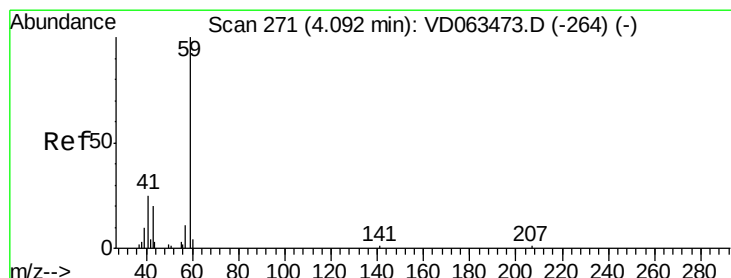
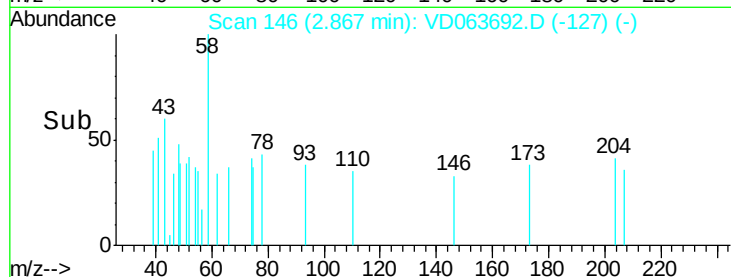
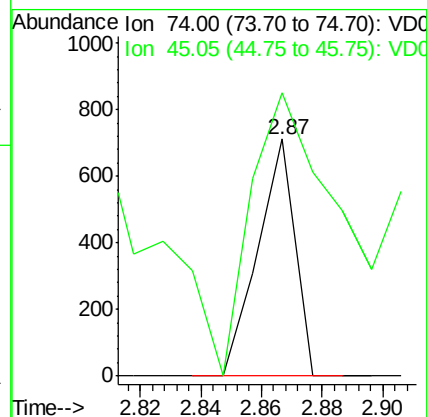
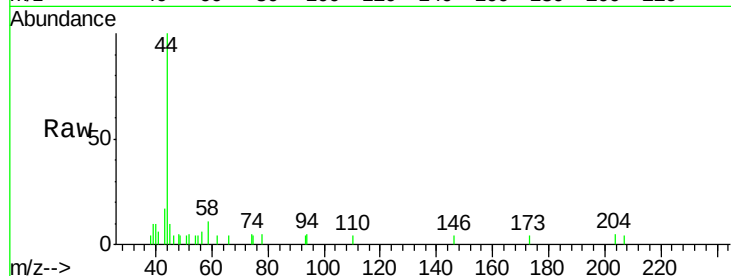
T4-C-(0)

Tot Ion: 74 Resp: 601

Ion Ratio Lower Upper

74 100

45 119.5 68.5 205.5



#11

Tert butyl alcohol

Concen: 15.035 ug/l

RT: 4.05 min Scan# 266

Delta R.T. -0.04 min

Lab File: VD063692.D

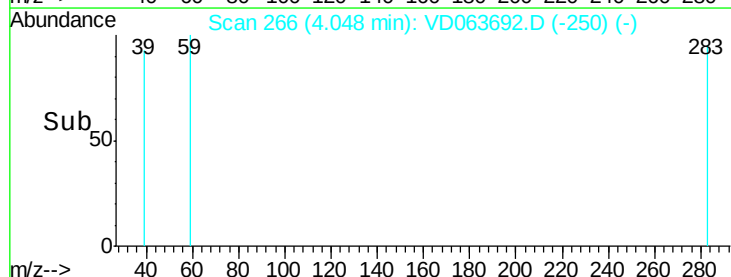
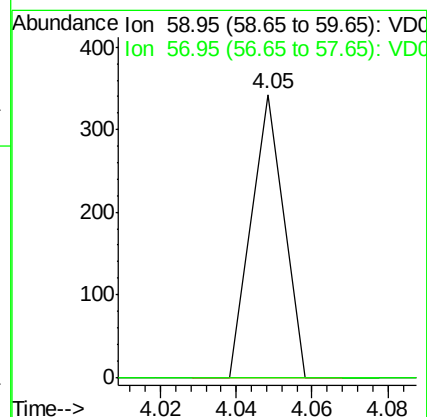
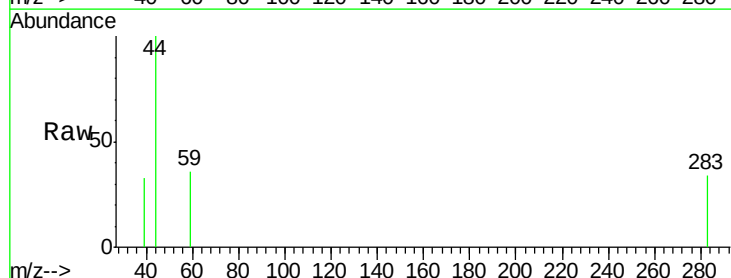
Acq: 20 Aug 2019 18:40

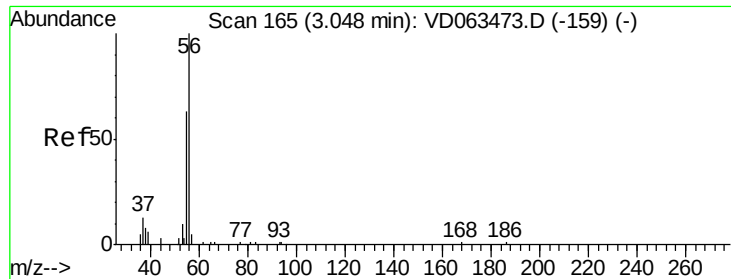
Tgt Ion: 59 Resp: 203

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#





#13

Acrolein

Concen: 15.576 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.02 min

Lab File: VD063692.D

Acq: 20 Aug 2019 18:40

Instrument :

MSVOA_D

ClientSampleId :

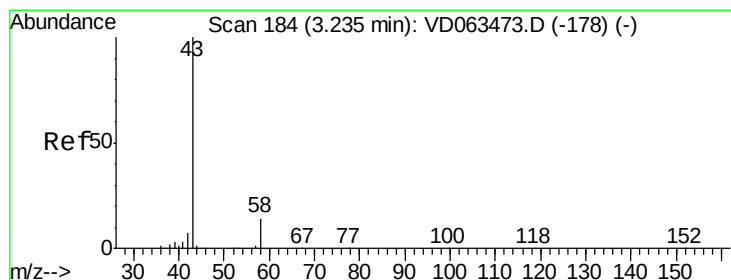
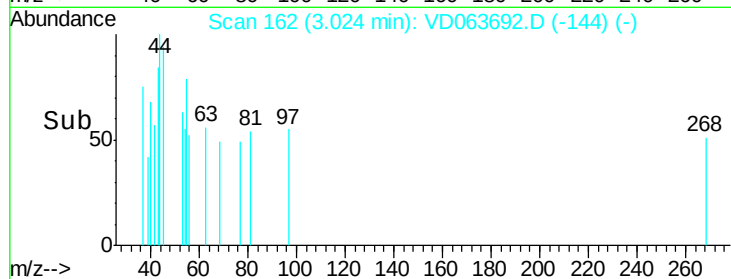
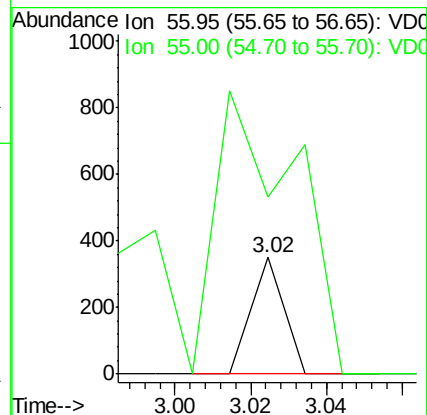
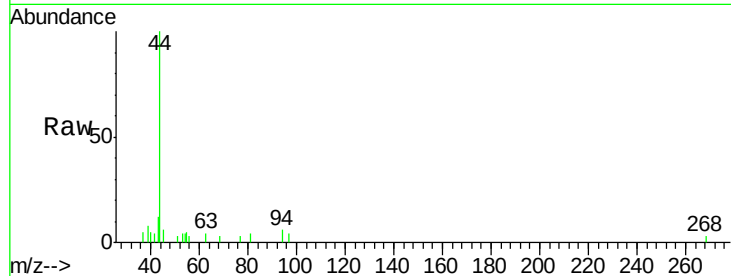
T4-C-(0)

Tot Ion: 56 Resp: 207

Ion Ratio Lower Upper

56 100

55 152.0 51.3 76.9#



#16

Acetone

Concen: 56.765 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD063692.D

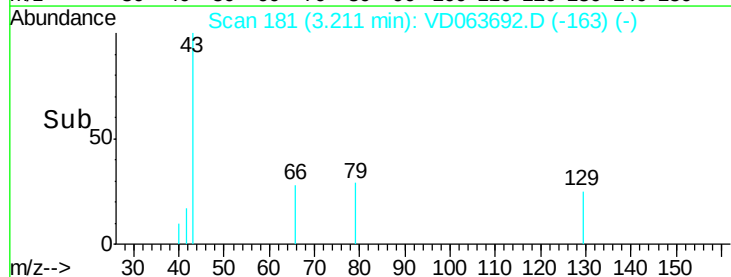
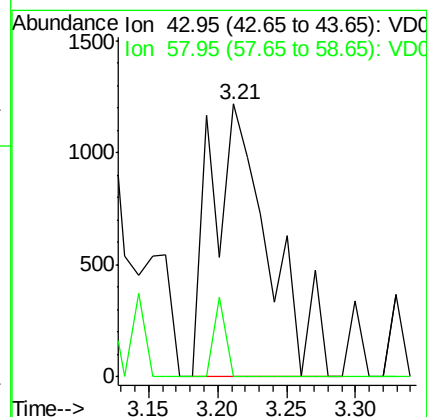
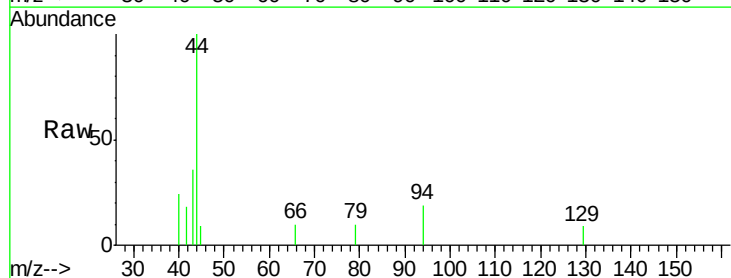
Acq: 20 Aug 2019 18:40

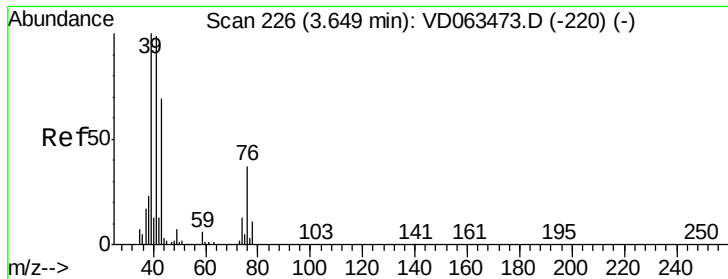
Tgt Ion: 43 Resp: 3579

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.2#

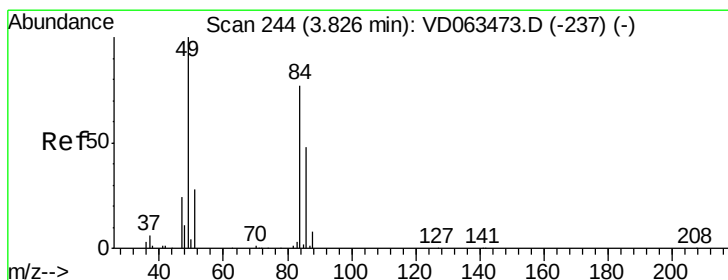
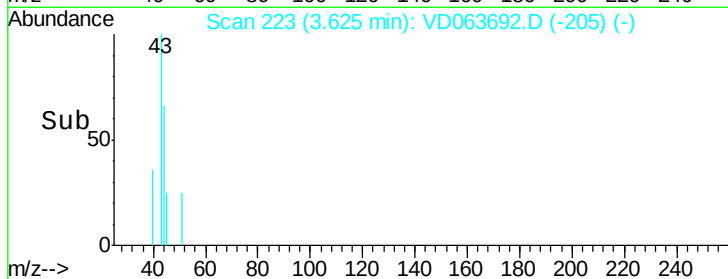
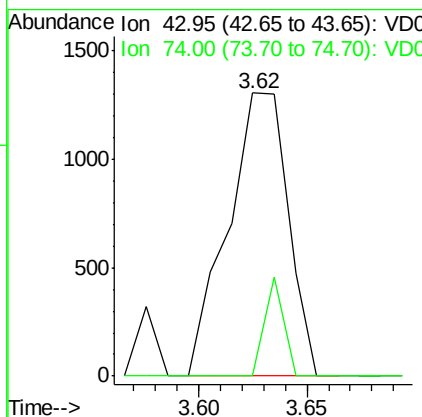
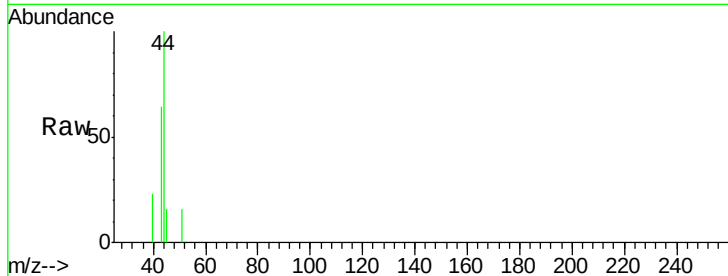




#18
Methyl Acetate
Concen: 21.101 ug/l
RT: 3.62 min Scan# 223
Delta R.T. -0.02 min
Lab File: VD063692.D
Acq: 20 Aug 2019 18:40

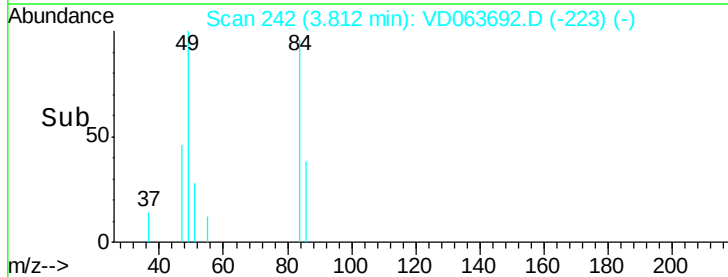
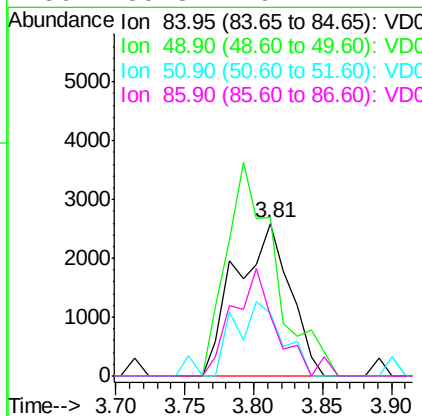
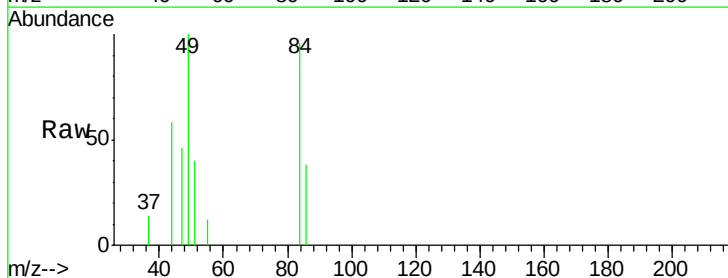
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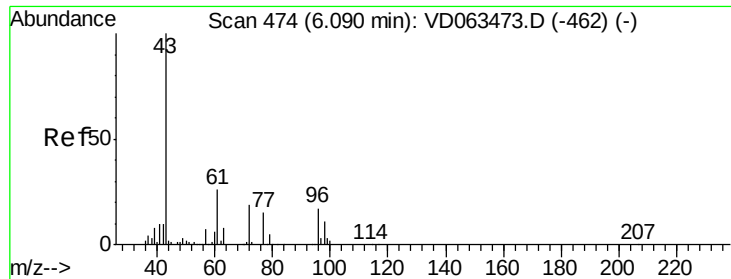
Tot Ion: 43 Resp: 2520
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 25.929 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD063692.D
Acq: 20 Aug 2019 18:40

Tgt Ion: 84 Resp: 7069
Ion Ratio Lower Upper
84 100
49 103.9 103.4 155.2
51 41.1 28.5 42.7
86 39.3 49.4 74.2#





#25

2-Butanone

Concen: 4.224 ug/l

RT: 6.08 min Scan# 472

Delta R.T. -0.01 min

Lab File: VD063692.D

Acq: 20 Aug 2019 18:40

Instrument :

MSVOA_D

ClientSampleId :

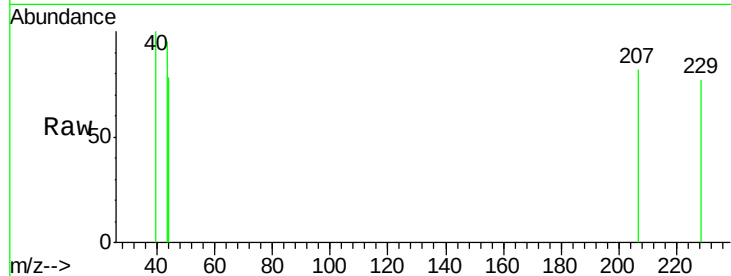
T4-C-(0)

Tot Ion: 43 Resp: 263

Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.08

400

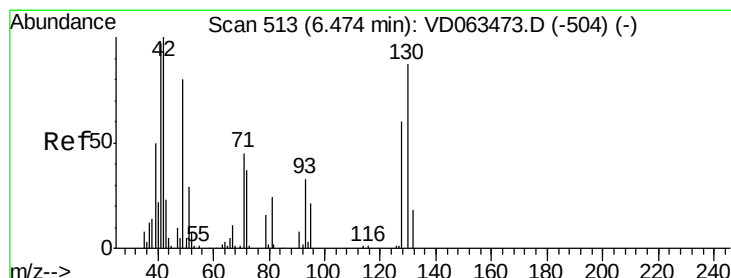
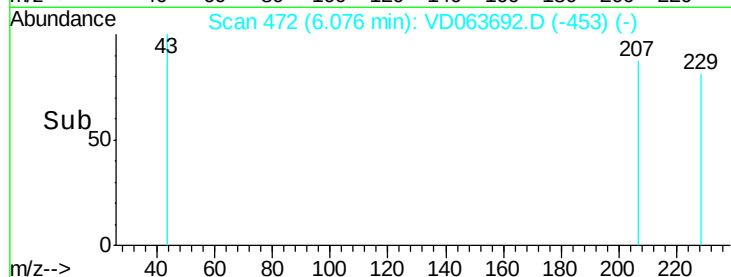
300

200

100

0

Time--> 6.04 6.06 6.08 6.10



#29

Tetrahydrofuran

Concen: 18.748 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.03 min

Lab File: VD063692.D

Acq: 20 Aug 2019 18:40

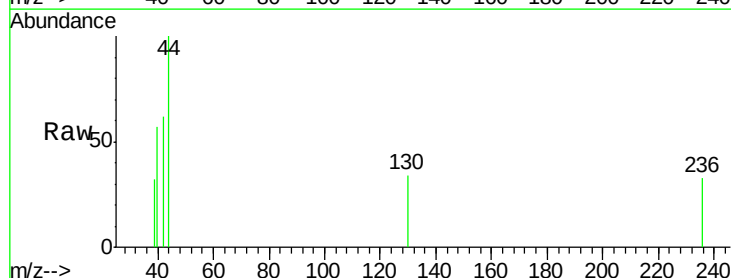
Tgt Ion: 42 Resp: 544

Ion Ratio Lower Upper

42 100

72 0.0 31.5 47.3#

71 0.0 33.8 50.8#



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

6.44

800

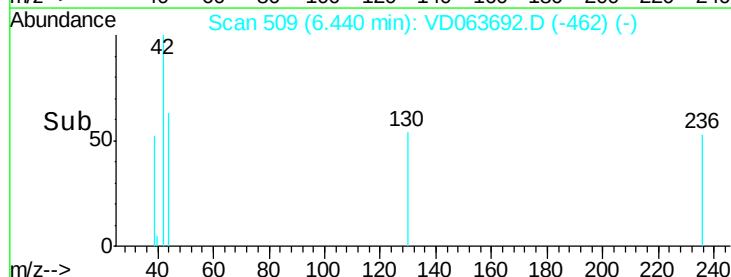
600

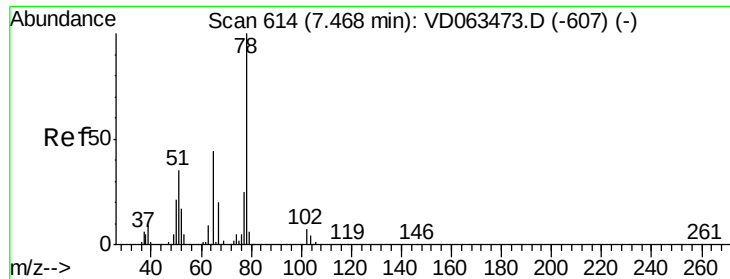
400

200

0

Time--> 6.42 6.44 6.46

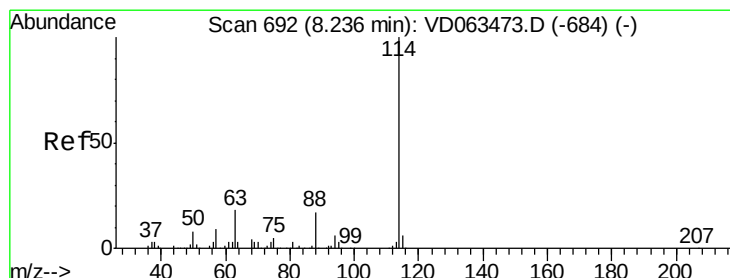
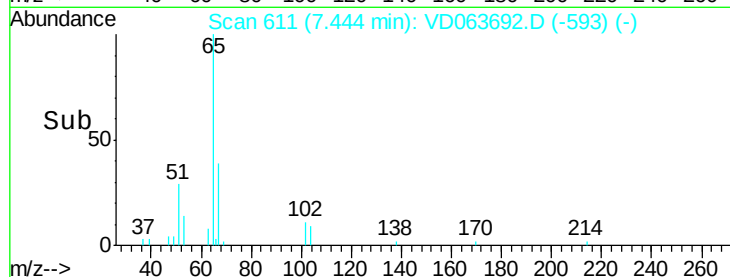
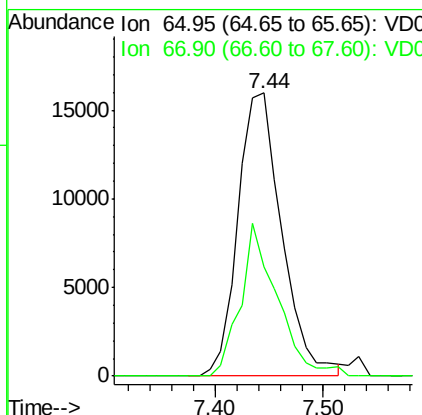
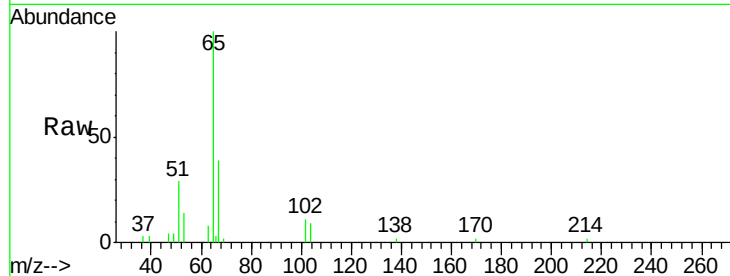




#33
 1,2-Dichloroethane-d4
 Concen: 145.745 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.02 min
 Lab File: VD063692.D
 Acq: 20 Aug 2019 18:40

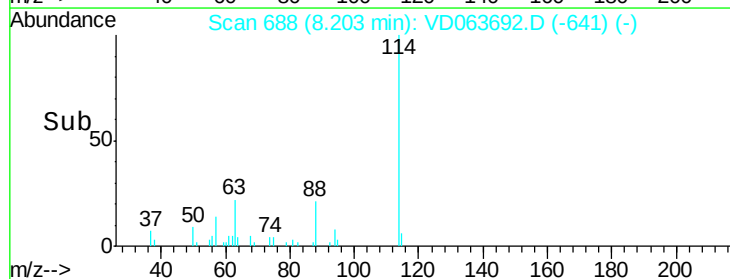
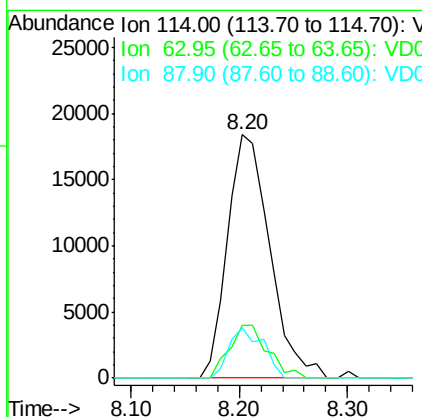
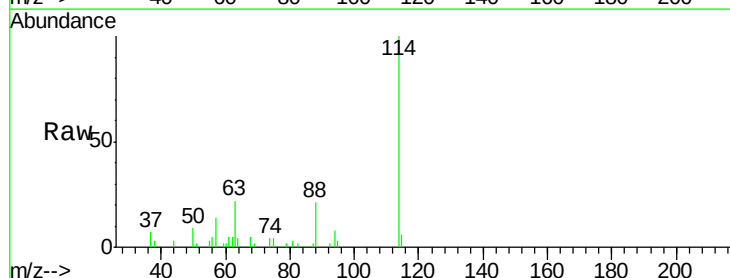
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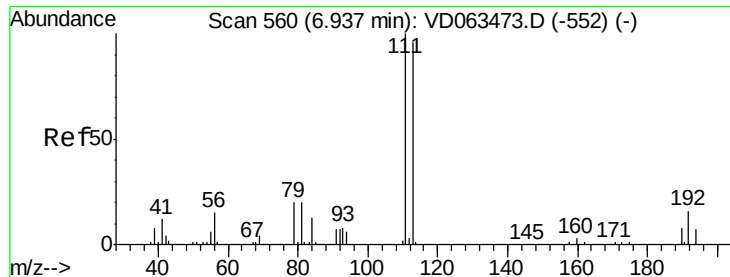
Tot Ion: 65 Resp: 45204
 Ion Ratio Lower Upper
 65 100
 67 38.5 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. -0.03 min
 Lab File: VD063692.D
 Acq: 20 Aug 2019 18:40

Tgt Ion: 114 Resp: 49977
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 36.2
 88 20.7 0.0 35.0

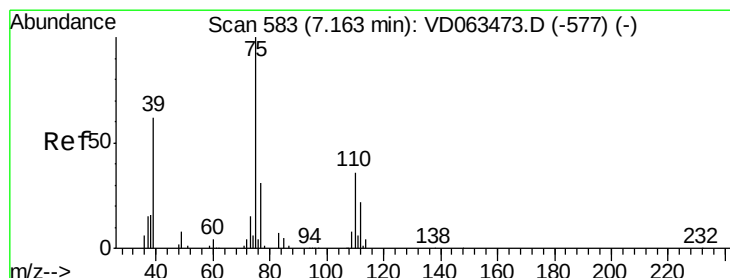
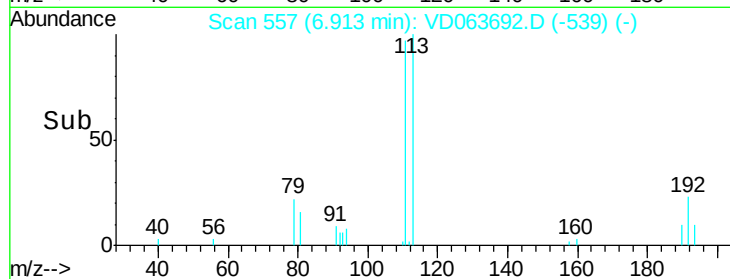
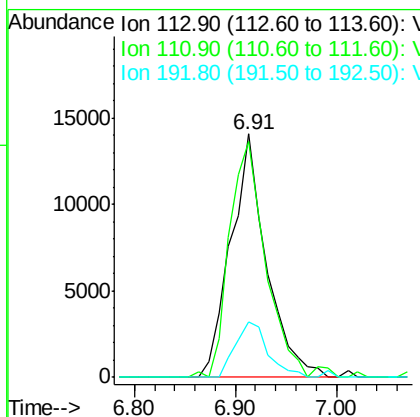
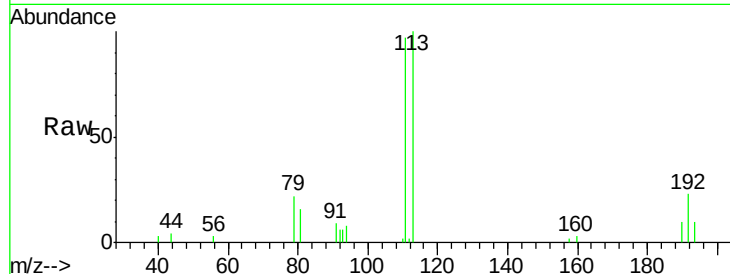




#35
 Dibromofluoromethane
 Concen: 82.369 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. -0.02 min
 Lab File: VD063692.D
 Acq: 20 Aug 2019 18:40

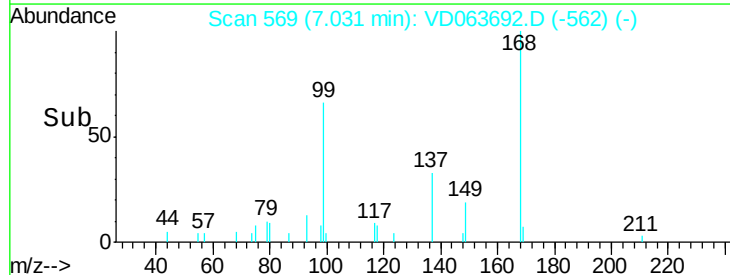
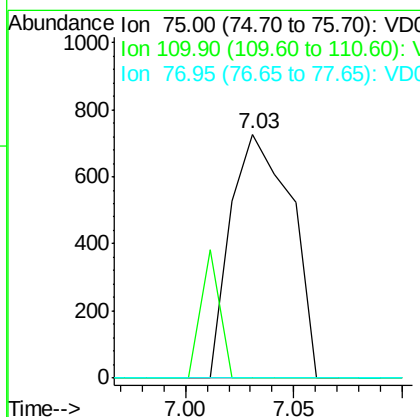
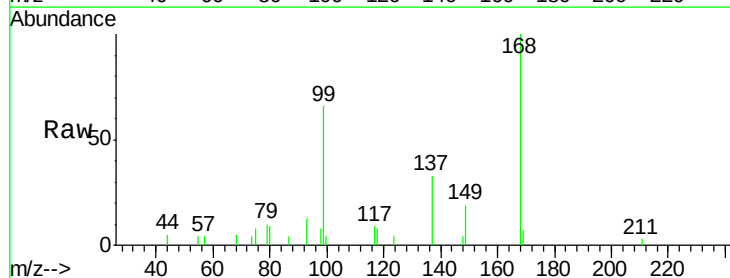
Instrument :
 MSVOA_D
 ClientSampleId :
 T4-C-(0)

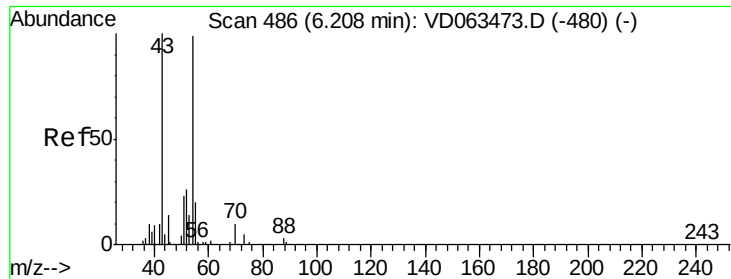
Tot Ion:113 Resp: 34670
 Ion Ratio Lower Upper
 113 100
 111 96.8 83.1 124.7
 192 22.8 13.1 19.7#



#36
 1,1-Dichloropropene
 Concen: 3.189 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.13 min
 Lab File: VD063692.D
 Acq: 20 Aug 2019 18:40

Tgt Ion: 75 Resp: 1409
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.6 52.8#
 77 0.0 24.3 36.5#

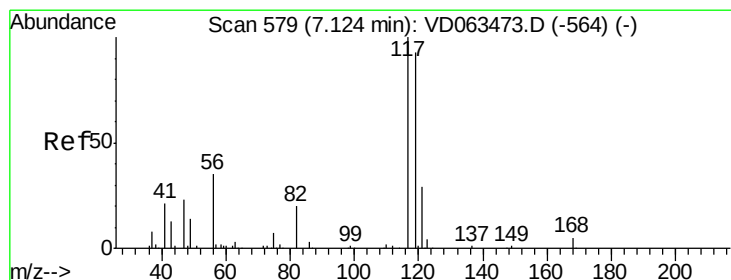
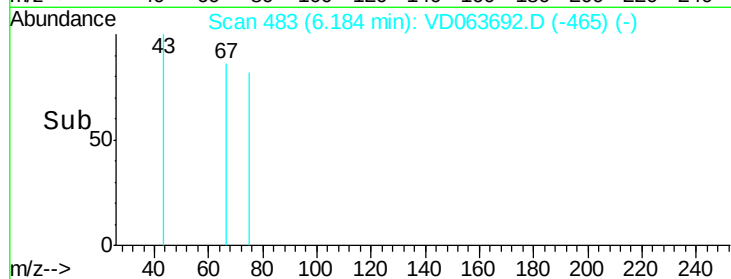
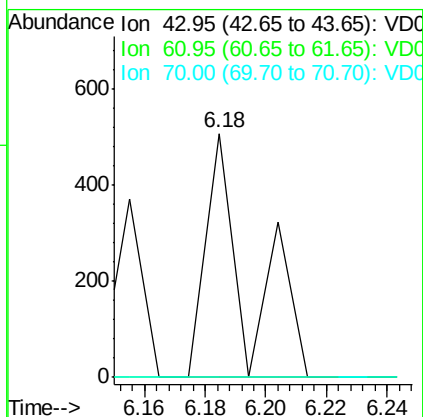
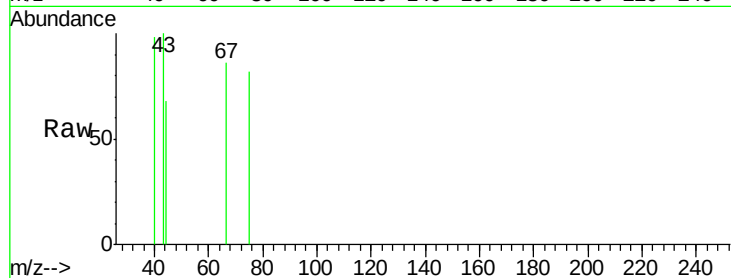




#37
Ethyl Acetate
Concen: 2.647 ug/l
RT: 6.18 min Scan# 483
Delta R.T. -0.02 min
Lab File: VD063692.D
Acq: 20 Aug 2019 18:40

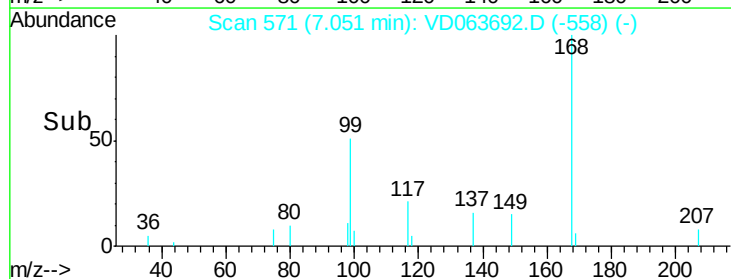
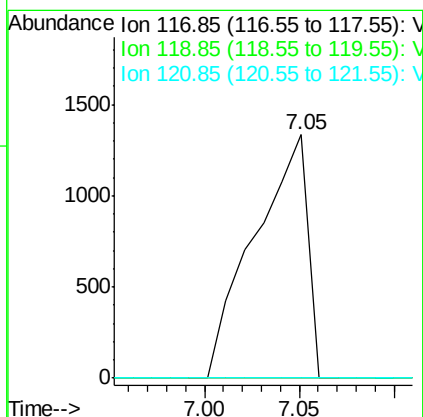
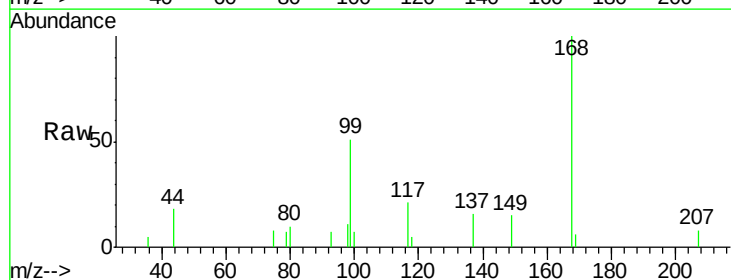
Instrument :
MSVOA_D
ClientSampleId :
T4-C-(0)

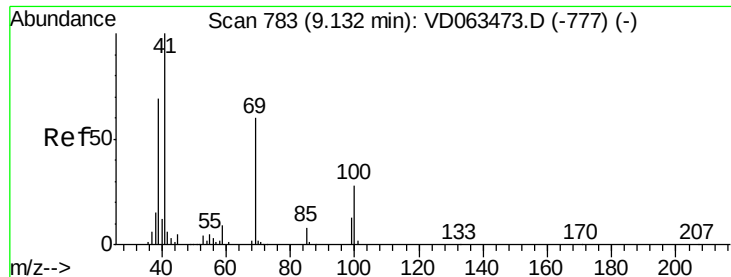
Tot Ion: 43 Resp: 490
Ion Ratio Lower Upper
43 100
61 0.0 9.0 13.6#
70 0.0 6.9 10.3#



#38
Carbon Tetrachloride
Concen: 3.899 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.07 min
Lab File: VD063692.D
Acq: 20 Aug 2019 18:40

Tgt Ion: 117 Resp: 2596
Ion Ratio Lower Upper
117 100
119 0.0 74.2 111.2#
121 0.0 23.1 34.7#

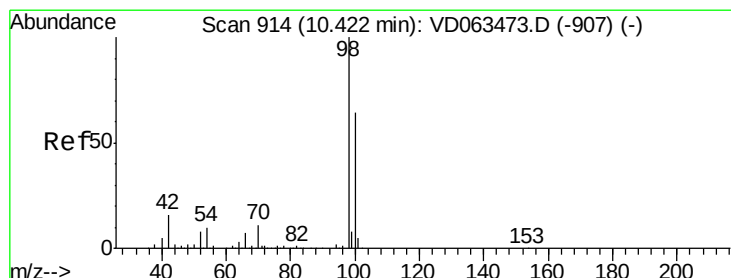
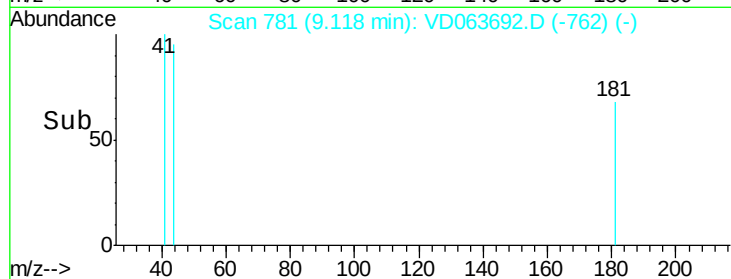
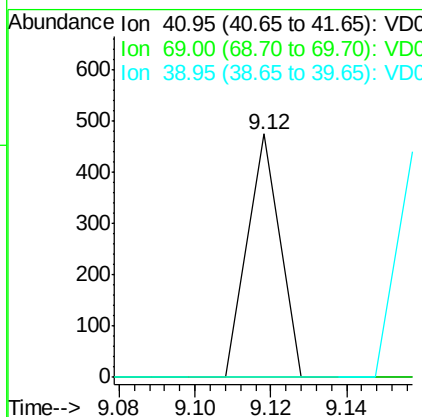
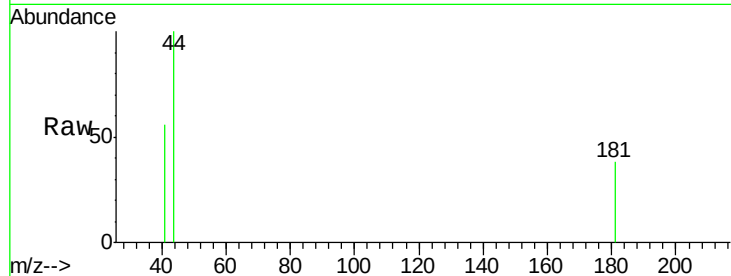




#48
Methvl methacrylate
Concen: 1.665 ug/l
RT: 9.12 min Scan# 781
Delta R.T. -0.01 min
Lab File: VD063692.D
Acq: 20 Aug 2019 18:40

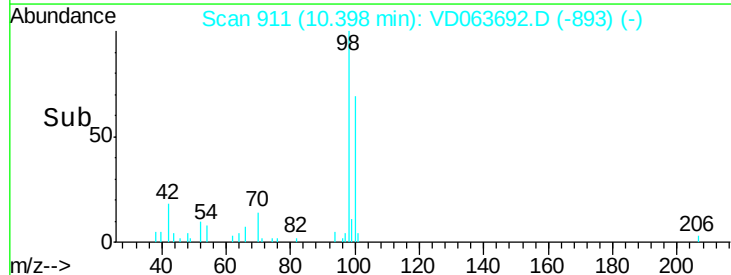
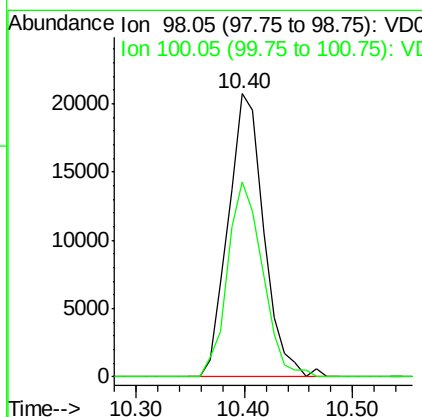
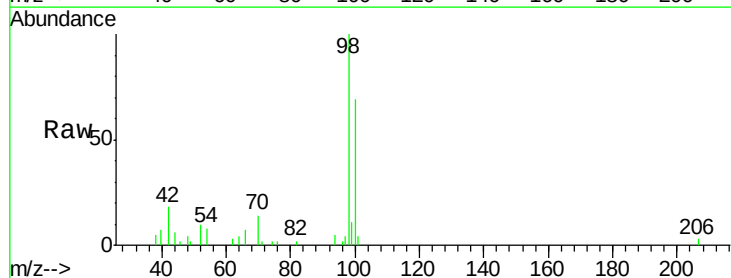
Instrument :
MSVOA_D
ClientSampleId :
T4-C-(0)

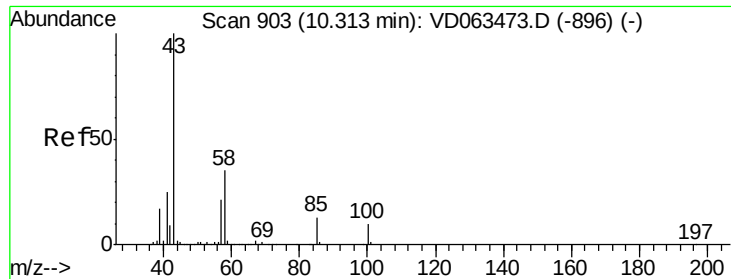
Tot Ion: 41 Resp: 280
Ion Ratio Lower Upper
41 100
69 0.0 47.6 71.4#
39 0.0 55.7 83.5#



#50
Toluene-d8
Concen: 51.222 ug/l
RT: 10.40 min Scan# 911
Delta R.T. -0.02 min
Lab File: VD063692.D
Acq: 20 Aug 2019 18:40

Tgt Ion: 98 Resp: 47400
Ion Ratio Lower Upper
98 100
100 68.8 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.090 ug/l

RT: 10.22 min Scan# 893

Delta R.T. -0.09 min

Lab File: VD063692.D

Acq: 20 Aug 2019 18:40

Instrument :

MSVOA_D

ClientSampleId :

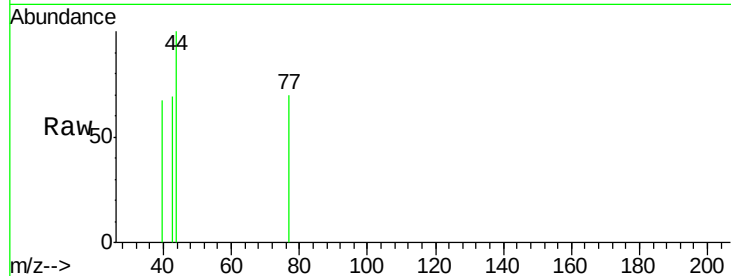
T4-C-(0)

Tot Ion: 43 Resp: 185

Ion Ratio Lower Upper

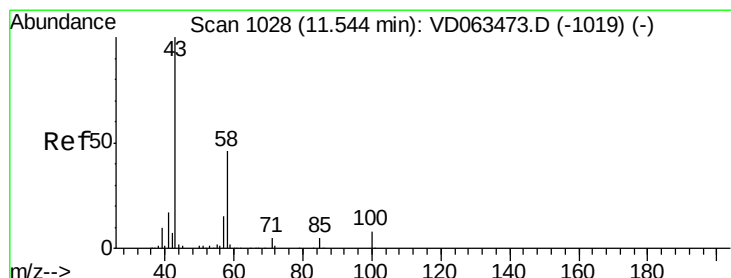
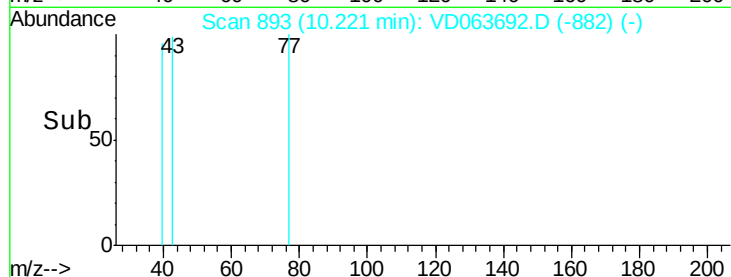
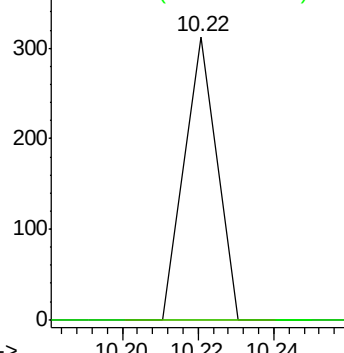
43 100

58 0.0 28.0 42.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#59

2-Hexanone

Concen: 2.560 ug/l

RT: 11.44 min Scan# 1017

Delta R.T. -0.10 min

Lab File: VD063692.D

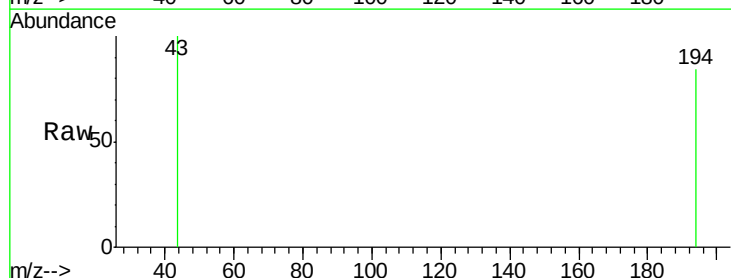
Acq: 20 Aug 2019 18:40

Tgt Ion: 43 Resp: 316

Ion Ratio Lower Upper

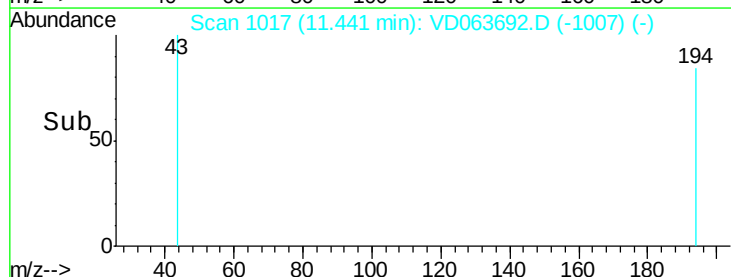
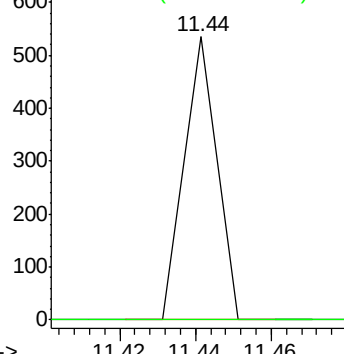
43 100

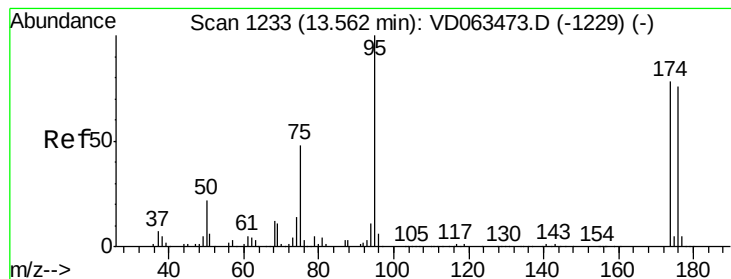
58 0.0 23.1 69.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 55.199 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063692.D

Acq: 20 Aug 2019 18:40

Instrument :

MSVOA_D

ClientSampleId :

T4-C-(0)

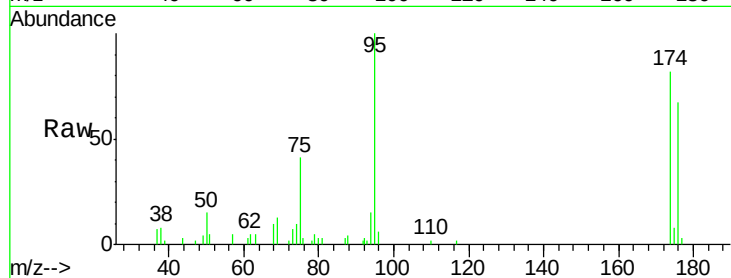
Tot Ion: 95 Resp: 23152

Ion Ratio Lower Upper

95 100

174 82.1 0.0 155.4

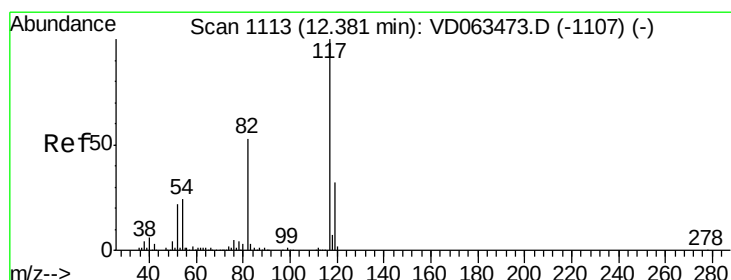
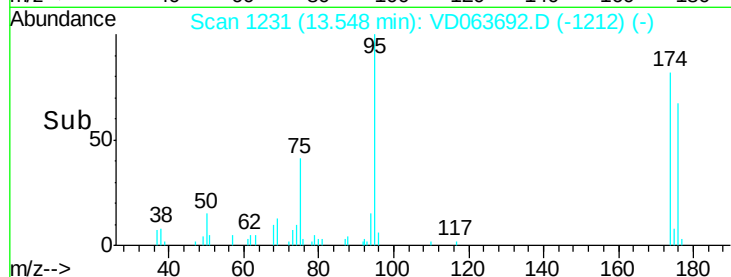
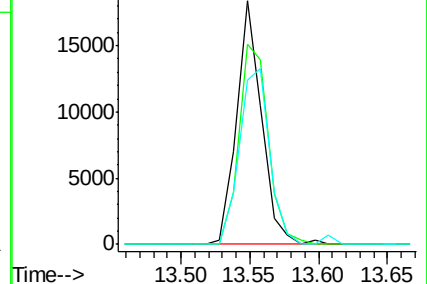
176 67.2 0.0 152.4



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: 12.36 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VD063692.D

Acq: 20 Aug 2019 18:40

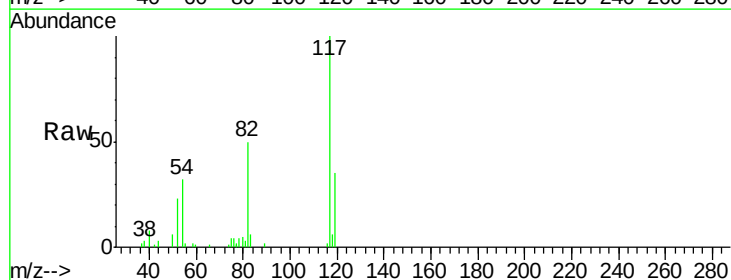
Tgt Ion: 117 Resp: 49850

Ion Ratio Lower Upper

117 100

82 50.2 42.0 63.0

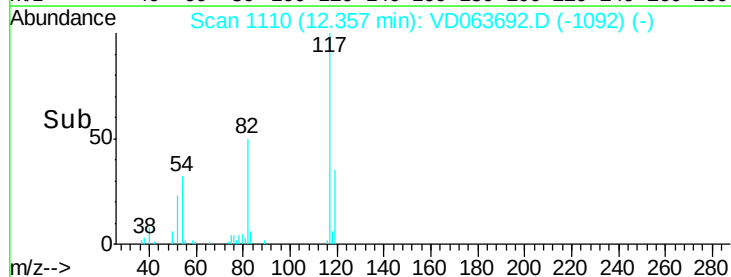
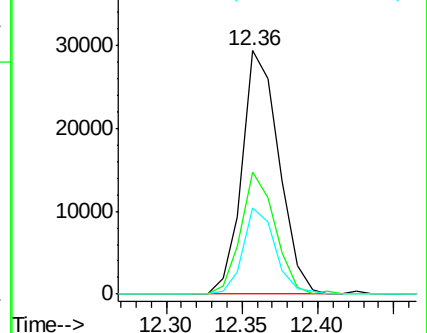
119 35.4 25.4 38.0

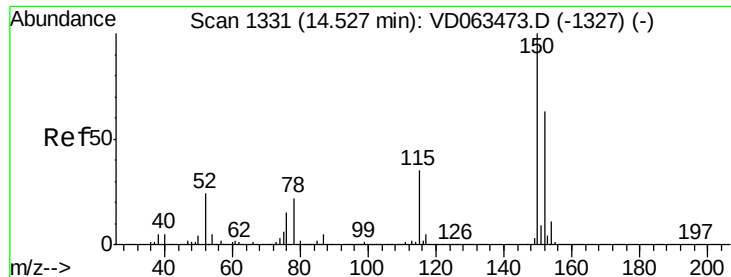


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



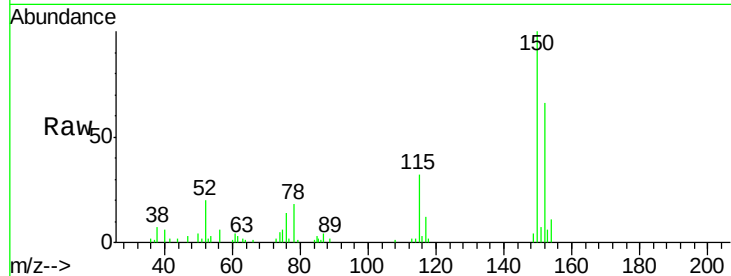


#72

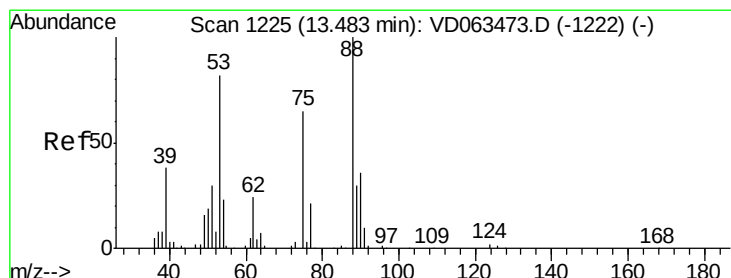
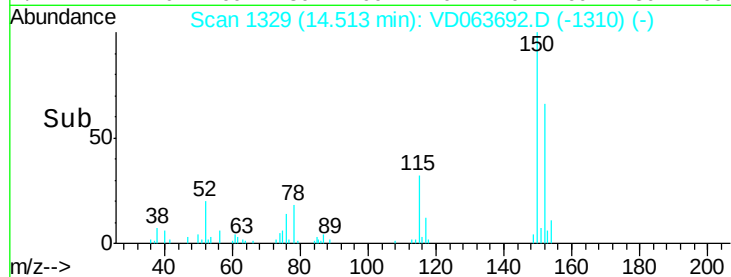
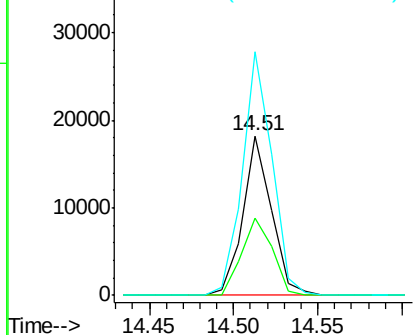
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063692.D
Acq: 20 Aug 2019 18:40

Instrument :
MSVOA_D
ClientSampled :
T4-C-(0)

Tot Ion:152 Resp: 21347
Ion Ratio Lower Upper
152 100
115 48.5 30.9 92.7
150 152.6 0.0 318.6



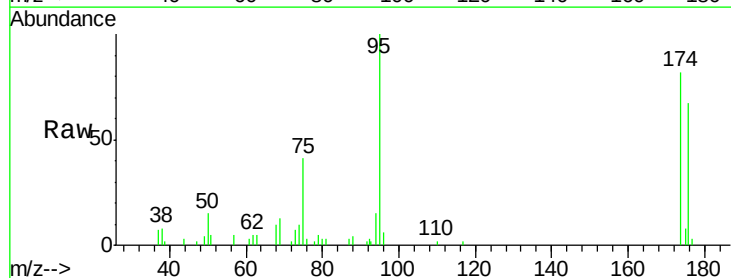
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
Concen: 156.589 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. 0.06 min
Lab File: VD063692.D
Acq: 20 Aug 2019 18:40

Tgt Ion: 75 Resp: 10311
Ion Ratio Lower Upper
75 100
53 0.0 101.0 151.4#
89 0.0 37.0 55.6#



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

