

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063460.D
 Acq On : 9 Aug 2019 2:58
 Operator : JC/SY
 Sample : K4223-28
 Misc : 3.55g/5ml/MSVOA_D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-14

Quant Time: Aug 09 07:04:18 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	7.05	168	308175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	476752	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	305973	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	102932	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	244811	71.59	ug/l	0.02
Spiked Amount 50.000			Recovery	=	143.18%	
35) Dibromofluoromethane	6.93	113	186263	45.76	ug/l	0.02
Spiked Amount 50.000			Recovery	=	91.52%	
50) Toluene-d8	10.41	98	284970	31.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	62.56%	
62) 4-Bromofluorobenzene	13.56	95	104939	25.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	50.56%	

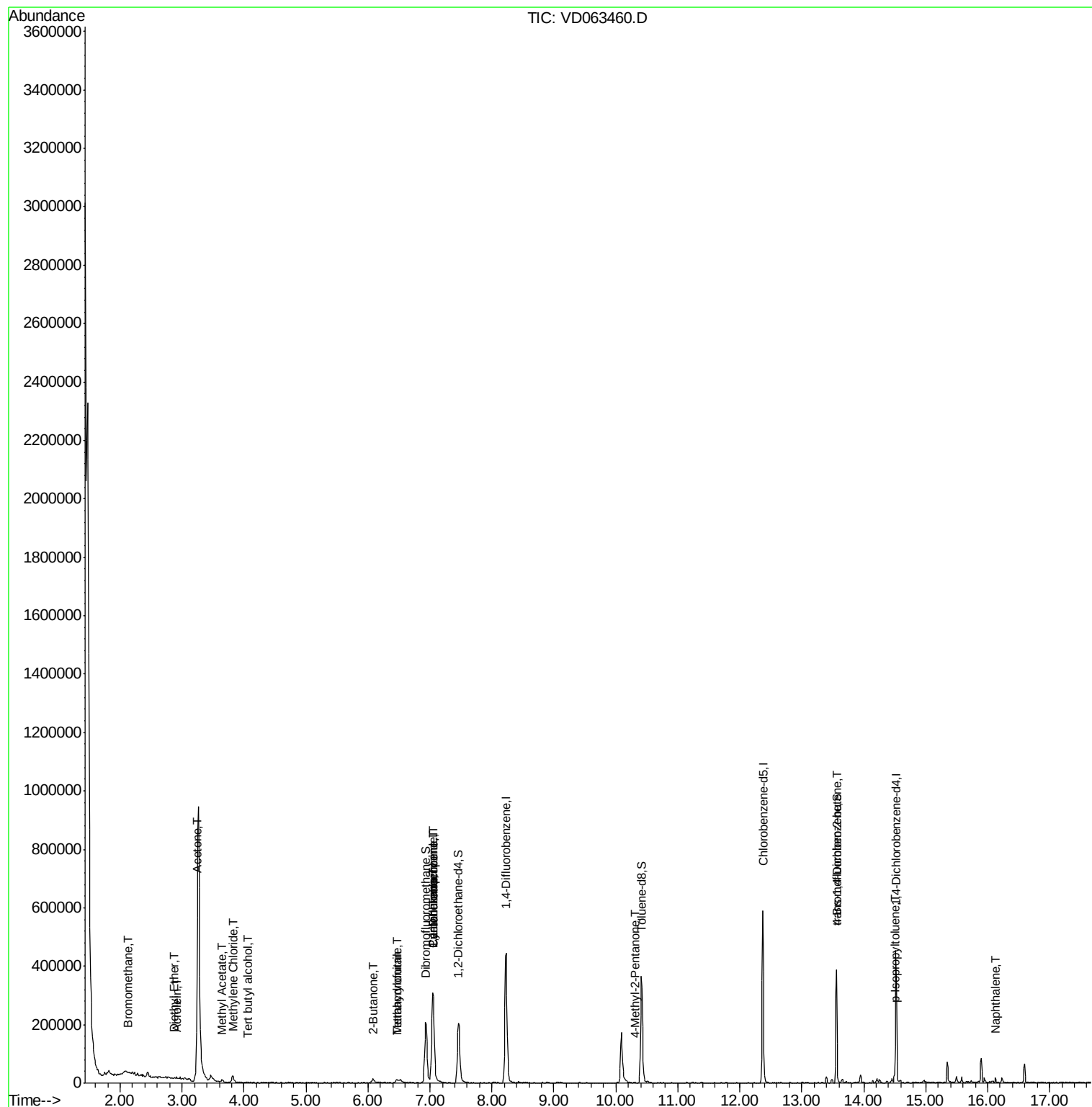
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.13	94	2239	1.465	ug/l #	34
8) Diethyl Ether	2.87	74	1058	1.286	ug/l #	1
11) Tert butyl alcohol	4.07	59	526	3.505	ug/l #	69
13) Acrolein	2.91	56	333	2.306	ug/l	88
16) Acetone	3.24	43	65179	97.829	ug/l #	90
18) Methyl Acetate	3.64	43	17087	13.352	ug/l	97
20) Methylene Chloride	3.83	84	13355	4.959	ug/l #	79
25) 2-Butanone	6.08	43	24495	36.634	ug/l #	77
29) Tetrahydrofuran	6.47	42	10340	32.663	ug/l #	50
31) Cyclohexane	7.05	56	5840	1.917	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	23667	5.439	ug/l #	60
38) Carbon Tetrachloride	7.06	117	29476	4.500	ug/l #	11
41) Methacrylonitrile	6.47	41	4321	1.848	ug/l #	87
51) 4-Methyl-2-Pentanone	10.30	43	2242	1.320	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.56	75	43305	126.140	ug/l #	3
86) p-Isopropyltoluene	14.50	119	12058	1.885	ug/l	85
95) Naphthalene	16.12	128	10314	3.239	ug/l #	93

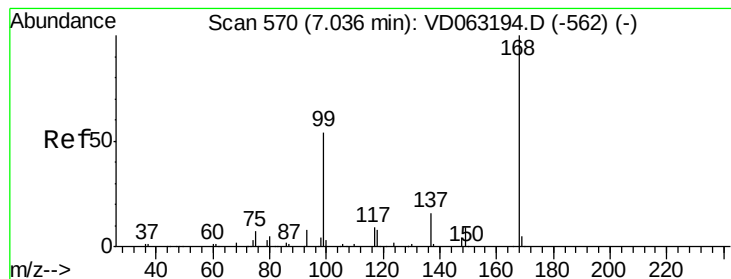
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

Instrument :

MSVOA_D

ClientSampleId :

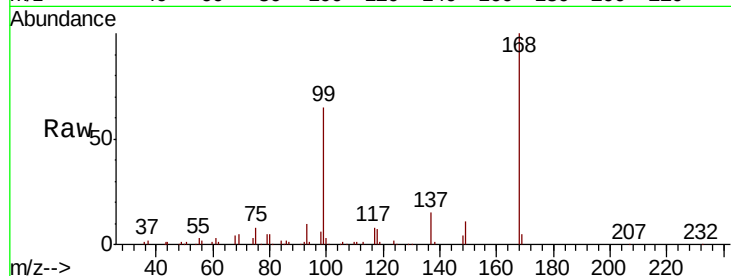
SP-14

Tgt Ion:168 Resp: 308175

Ion Ratio Lower Upper

168 100

99 64.8 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

100000

80000

60000

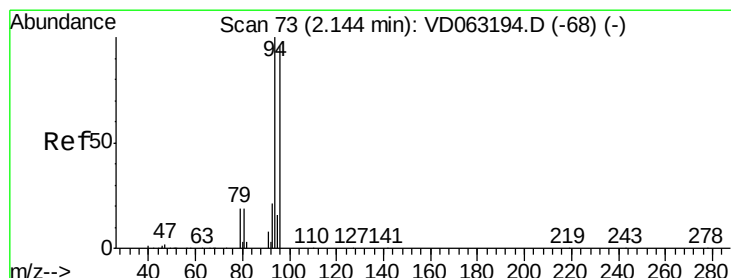
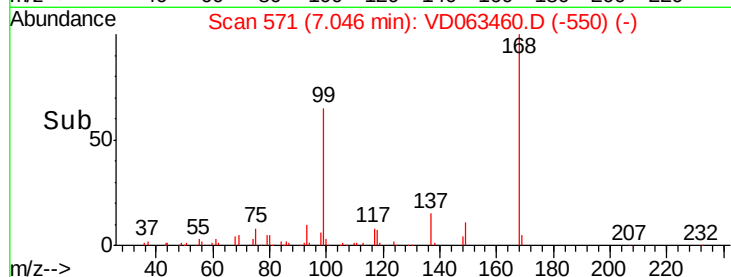
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.465 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

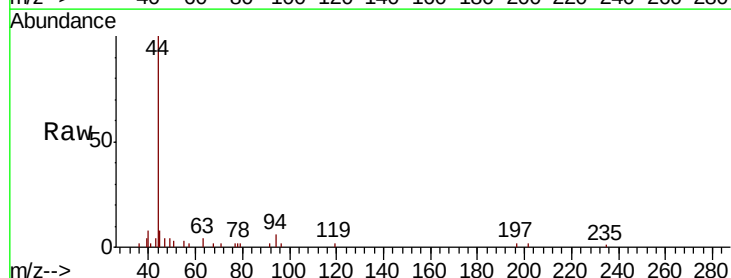
Tgt Ion: 94 Resp: 2239

Ion Ratio Lower Upper

94 100

96 26.5 76.4 114.6#

93 0.0 17.3 25.9#



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

2.13

1500

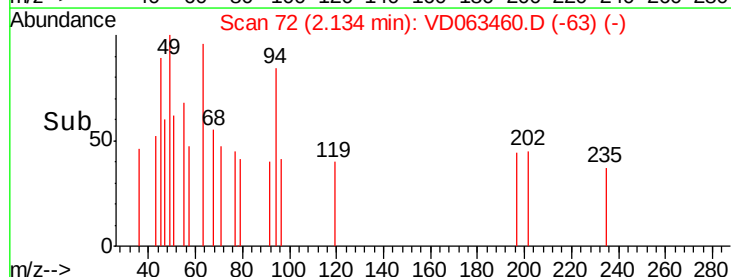
1000

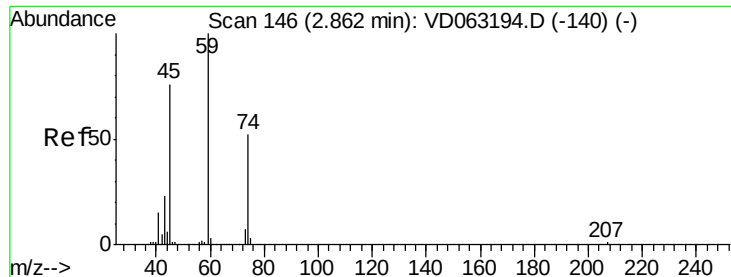
500

0

Time-->

2.12 2.14 2.16





#8

Diethyl Ether

Concen: 1.286 ug/l

RT: 2.87 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

Instrument :

MSVOA_D

ClientSampled :

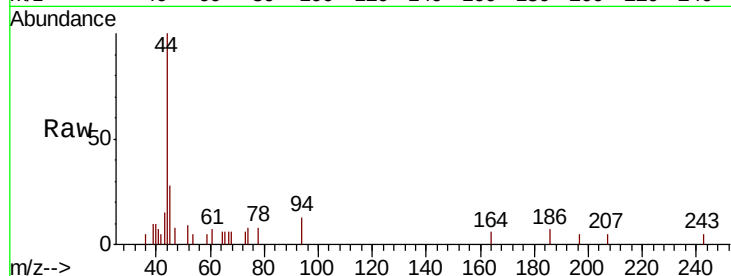
SP-14

Tgt Ion: 74 Resp: 1058

Ion Ratio Lower Upper

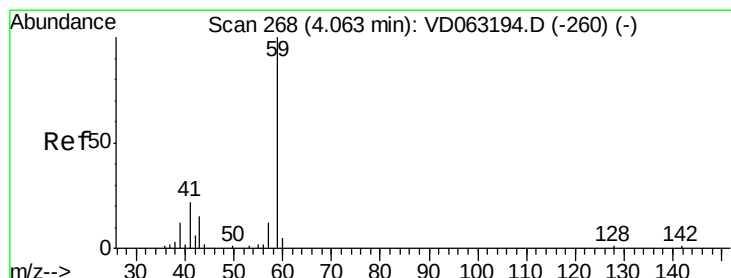
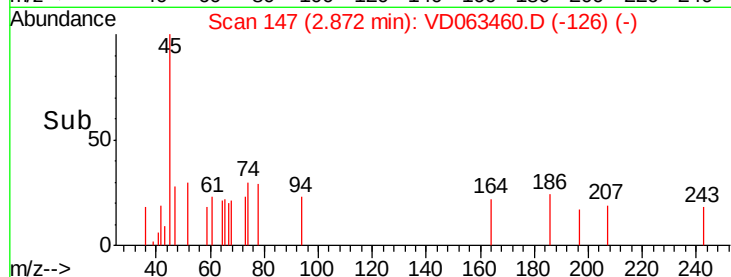
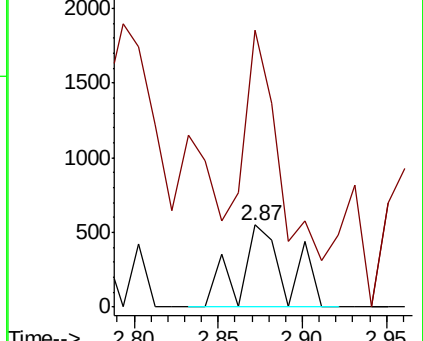
74 100

45 336.8 73.6 220.8#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 3.505 ug/l

RT: 4.07 min Scan# 269

Delta R.T. 0.01 min

Lab File: VD063460.D

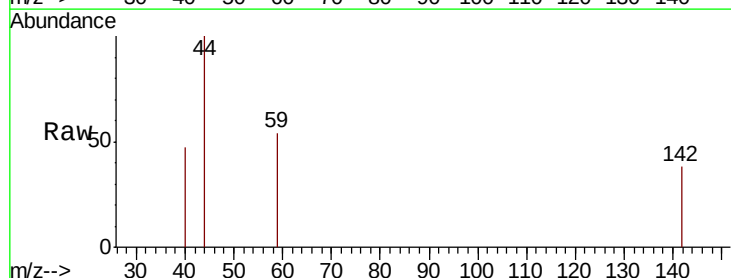
Acq: 9 Aug 2019 2:58

Tgt Ion: 59 Resp: 526

Ion Ratio Lower Upper

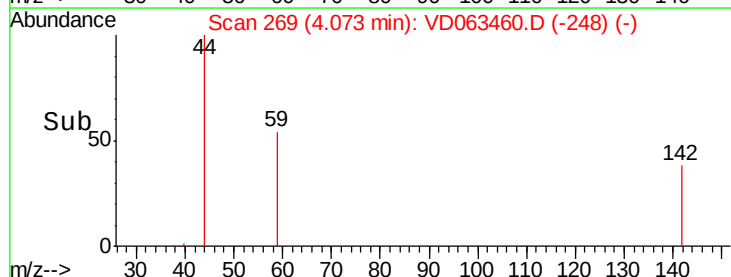
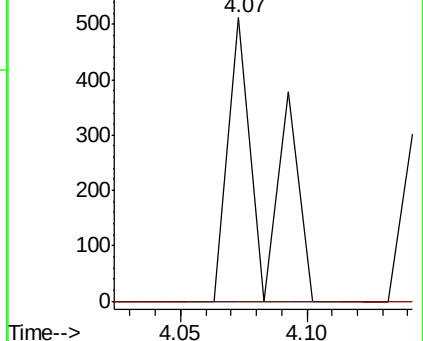
59 100

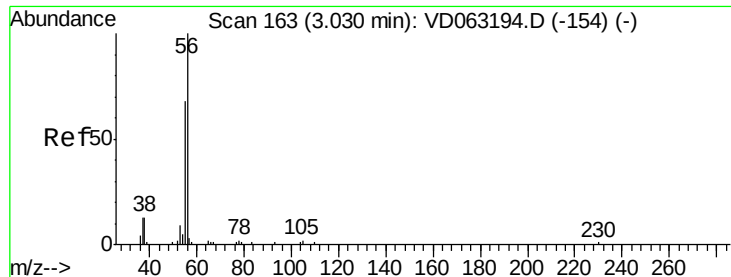
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 2.306 ug/l

RT: 2.91 min Scan# 151

Delta R.T. -0.12 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

Instrument :

MSVOA_D

ClientSampleId :

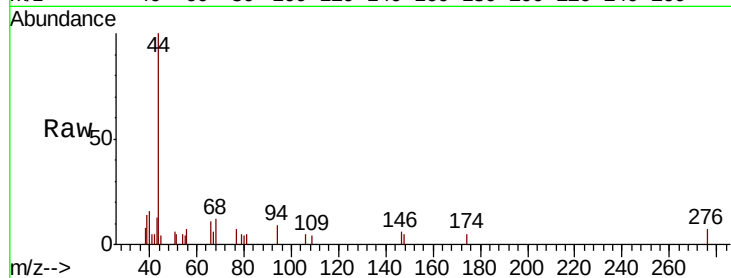
SP-14

Tgt Ion: 56 Resp: 333

Ion Ratio Lower Upper

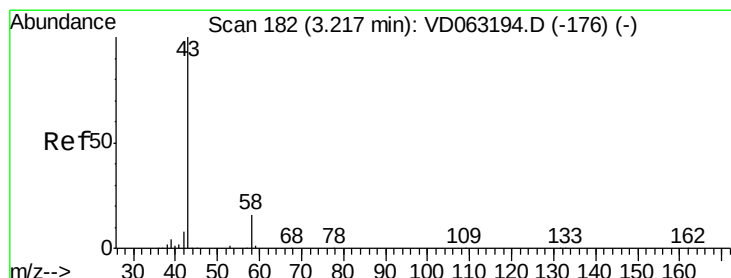
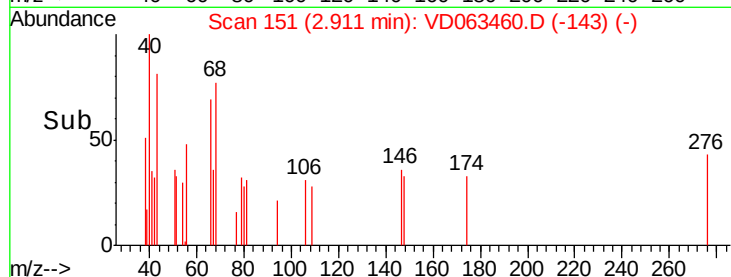
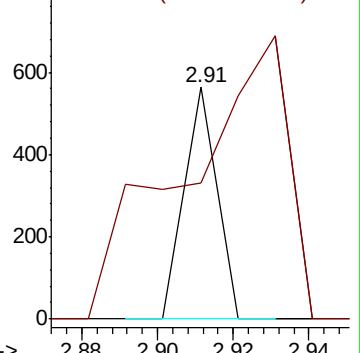
56 100

55 59.0 55.3 82.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 97.829 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD063460.D

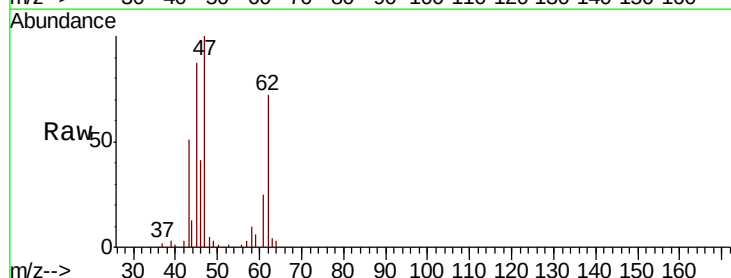
Acq: 9 Aug 2019 2:58

Tgt Ion: 43 Resp: 65179

Ion Ratio Lower Upper

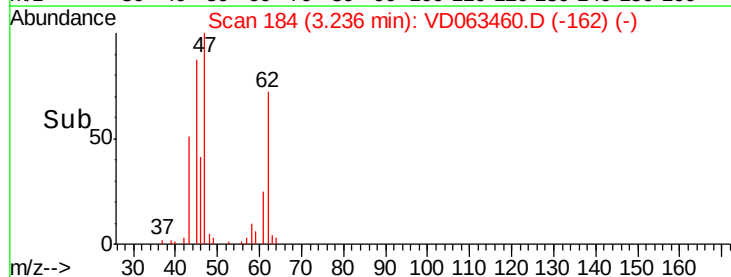
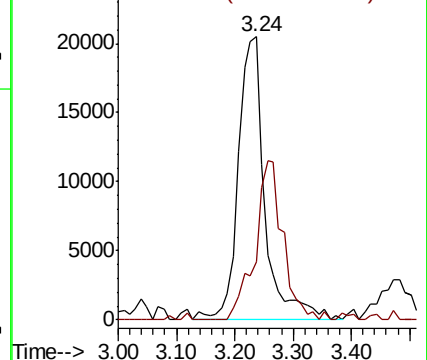
43 100

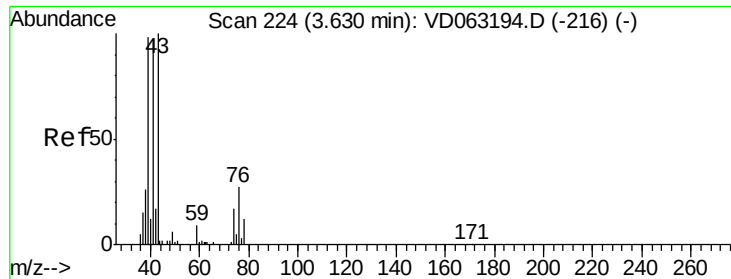
58 20.5 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

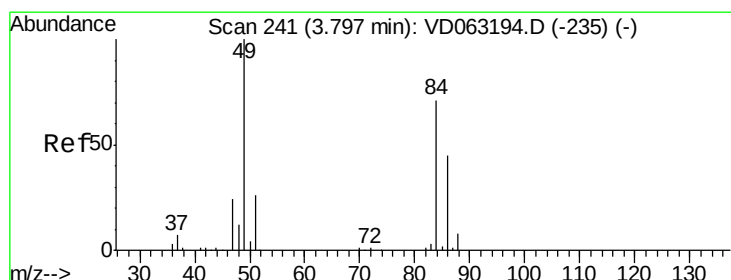
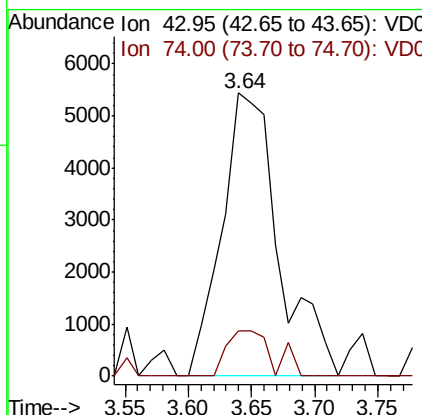
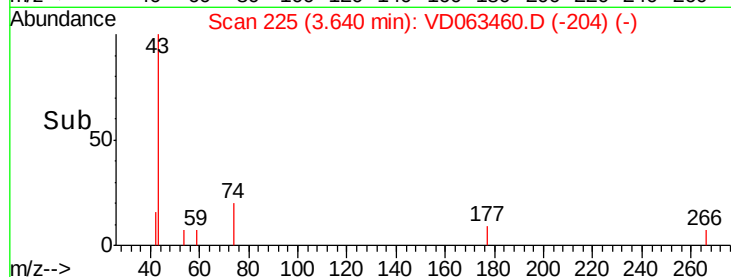
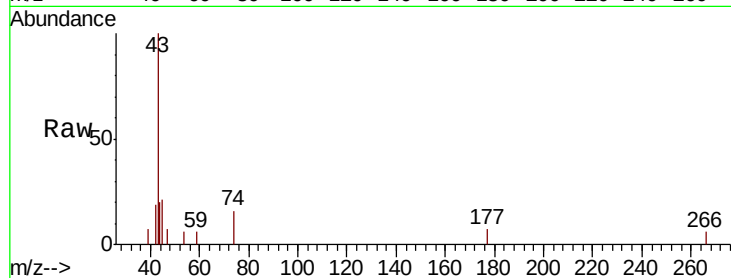




#18
Methyl Acetate
Concen: 13.352 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD063460.D
Acq: 9 Aug 2019 2:58

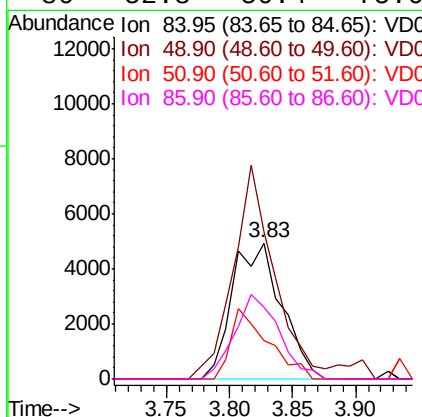
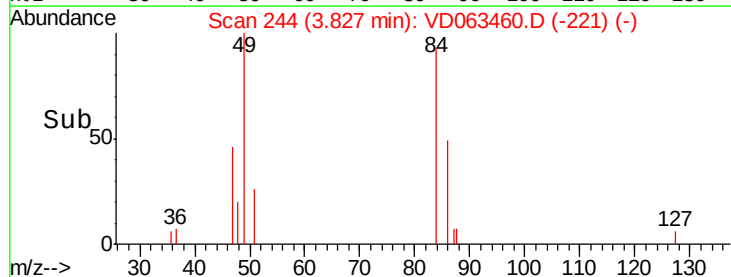
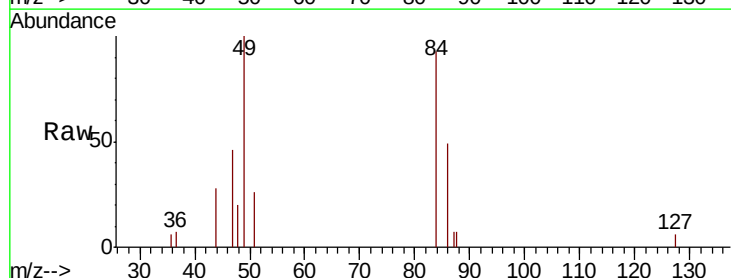
Instrument :
MSVOA_D
ClientSampleId :
SP-14

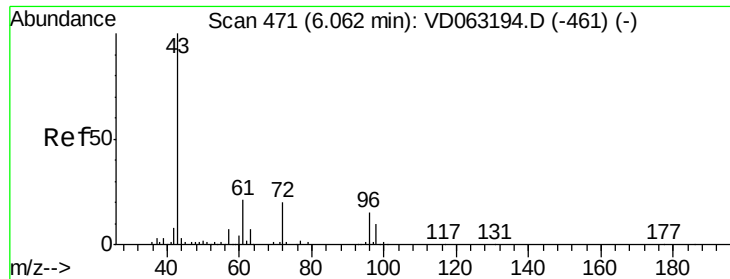
Tgt Ion: 43 Resp: 17087
Ion Ratio Lower Upper
43 100
74 15.9 13.8 20.8



#20
Methylene Chloride
Concen: 4.959 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD063460.D
Acq: 9 Aug 2019 2:58

Tgt Ion: 84 Resp: 13355
Ion Ratio Lower Upper
84 100
49 107.9 112.5 168.7#
51 28.2 29.6 44.4#
86 52.8 50.4 75.6





#25

2-Butanone

Concen: 36.634 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

Instrument :

MSVOA_D

ClientSampleId :

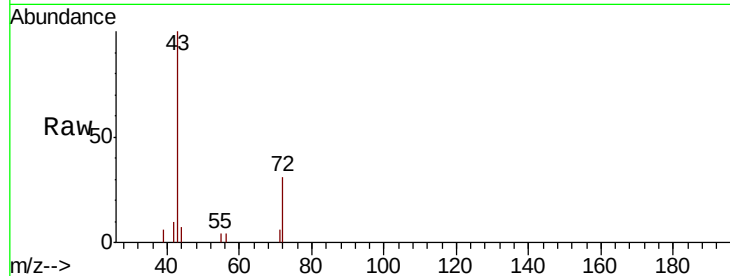
SP-14

Tgt Ion: 43 Resp: 24495

Ion Ratio Lower Upper

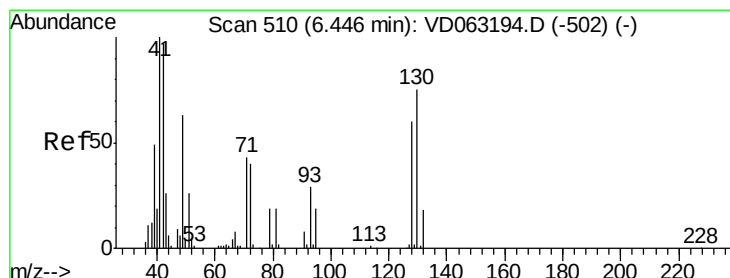
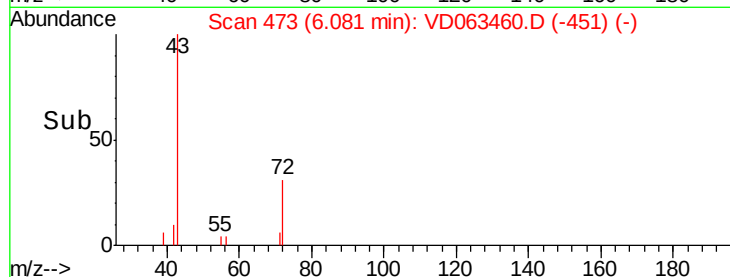
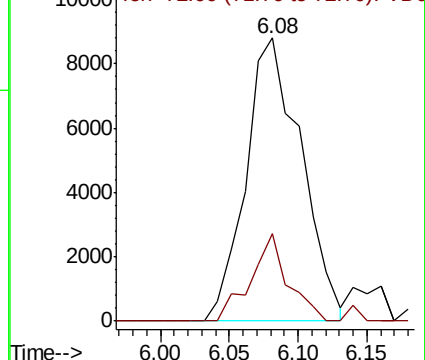
43 100

72 31.1 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: 32.663 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

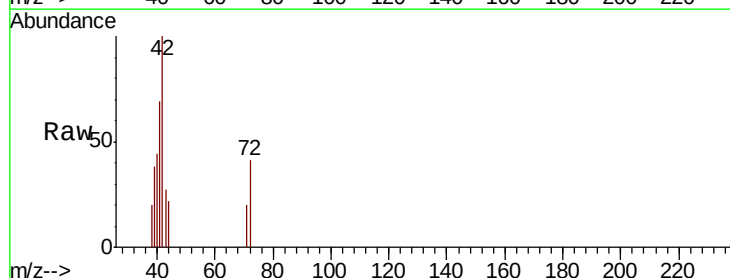
Tgt Ion: 42 Resp: 10340

Ion Ratio Lower Upper

42 100

72 22.2 33.4 50.2#

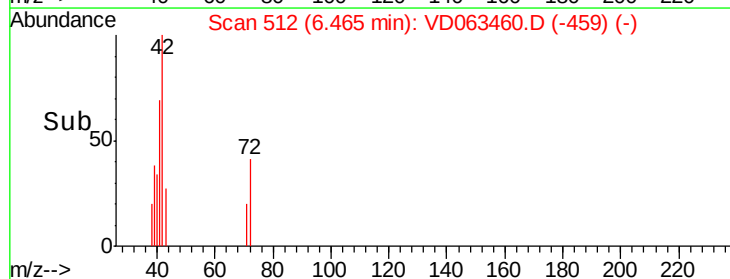
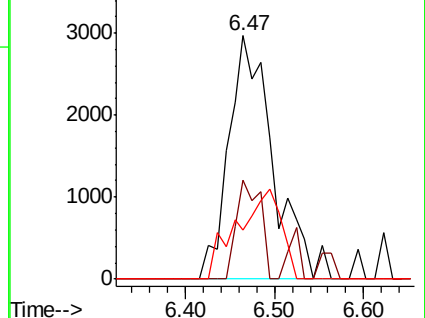
71 0.0 35.7 53.5#

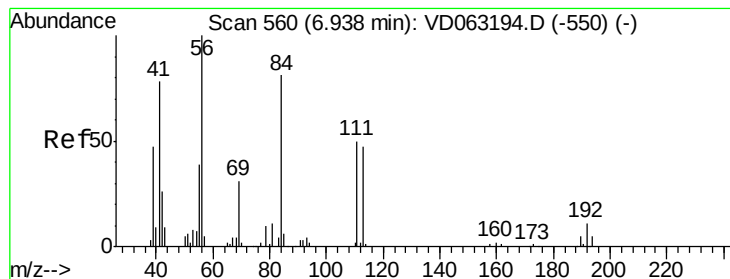


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.917 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

Instrument :

MSVOA_D

ClientSampleId :

SP-14

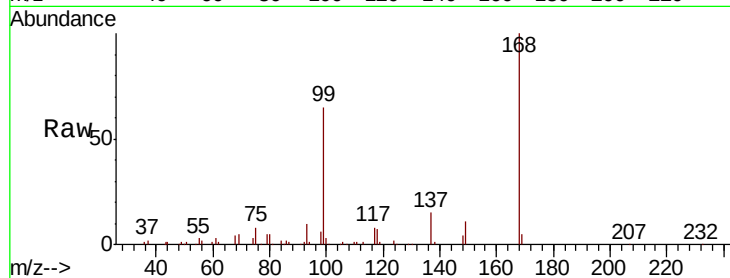
Tgt Ion: 56 Resp: 5840

Ion Ratio Lower Upper

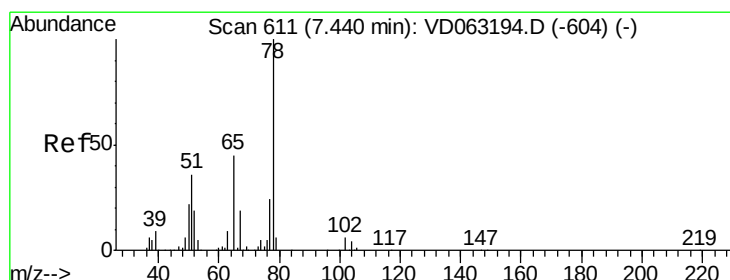
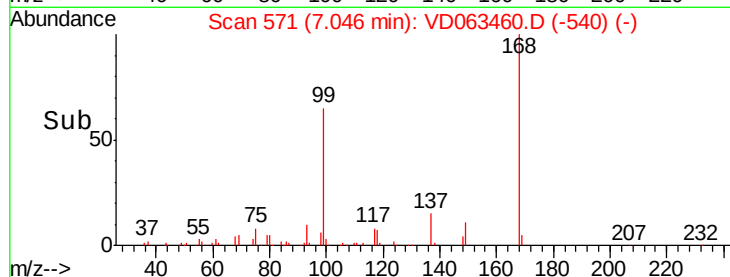
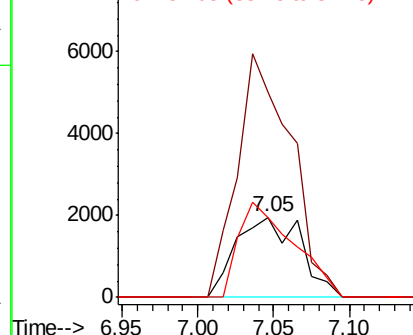
56 100

69 255.6 24.5 36.7#

84 99.2 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: 71.593 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD063460.D

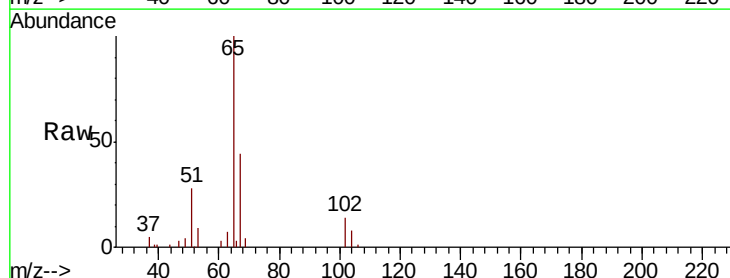
Acq: 9 Aug 2019 2:58

Tgt Ion: 65 Resp: 244811

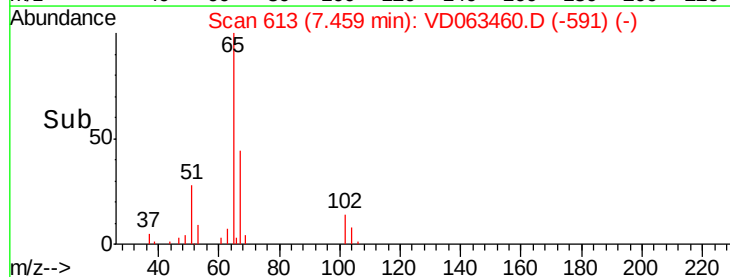
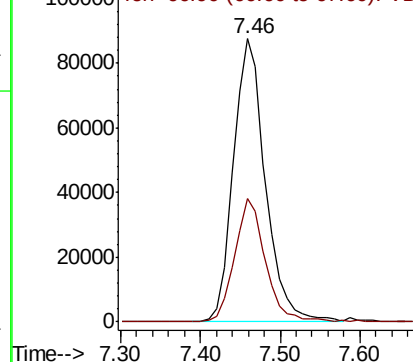
Ion Ratio Lower Upper

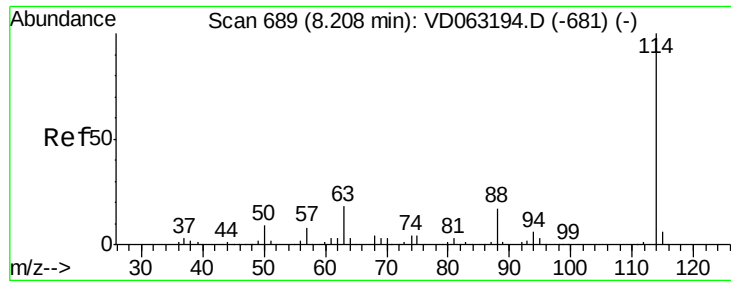
65 100

67 43.6 0.0 85.8



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

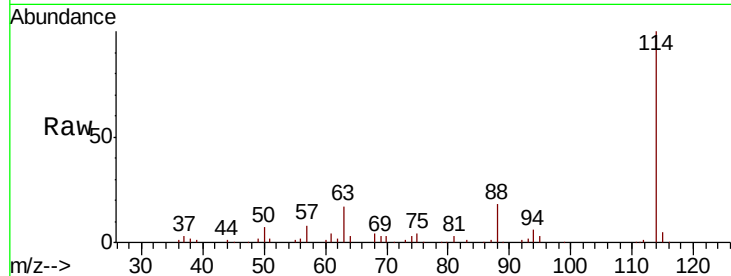




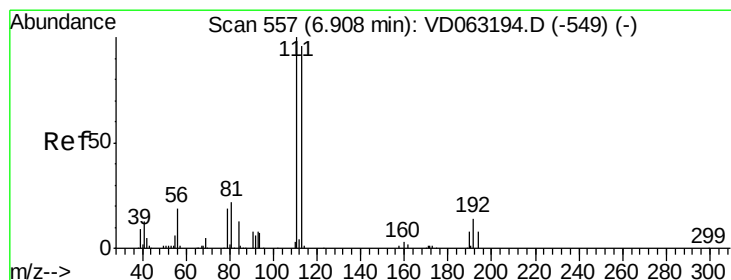
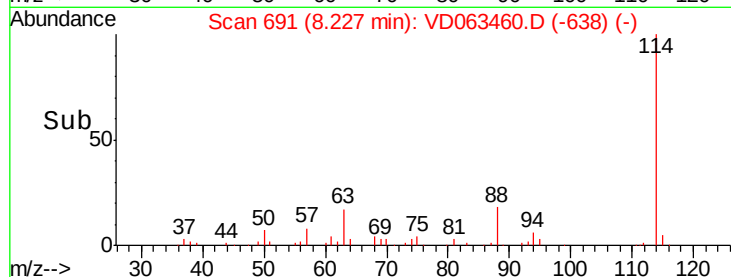
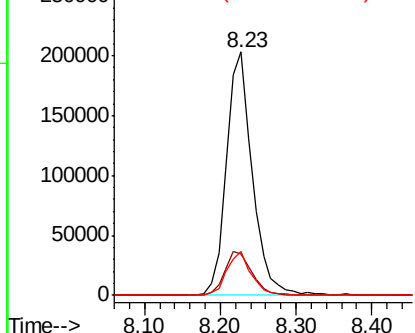
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD063460.D
 Acq: 9 Aug 2019 2:58

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-14

Tgt Ion:114 Resp: 476752
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 35.2
 88 18.0 0.0 34.6

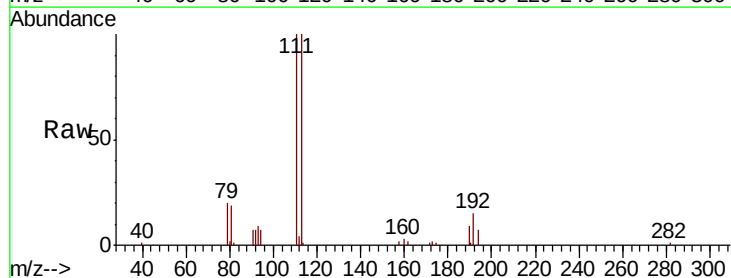


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

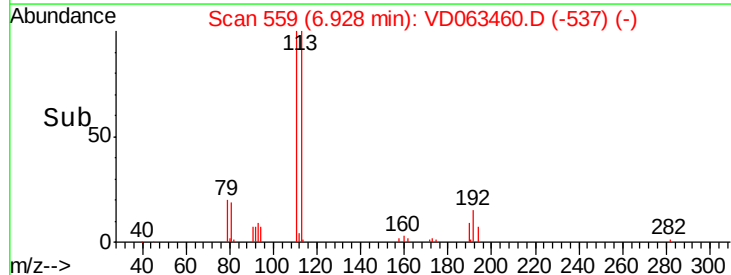
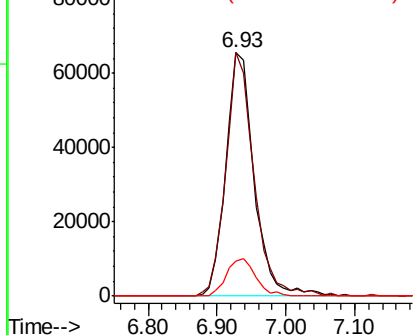


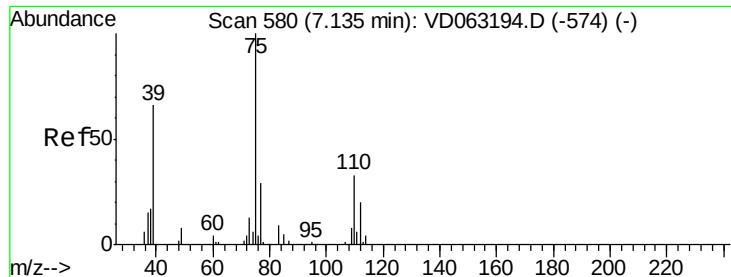
#35
 Dibromofluoromethane
 Concen: 45.760 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD063460.D
 Acq: 9 Aug 2019 2:58

Tgt Ion:113 Resp: 186263
 Ion Ratio Lower Upper
 113 100
 111 100.0 83.2 124.8
 192 14.6 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: 5.439 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

Instrument :

MSVOA_D

ClientSampled :

SP-14

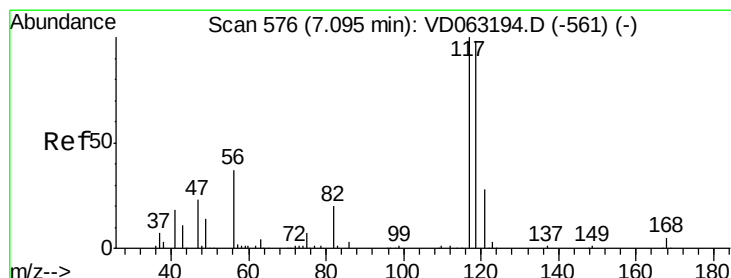
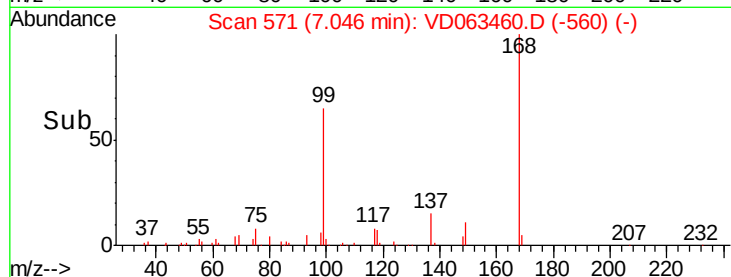
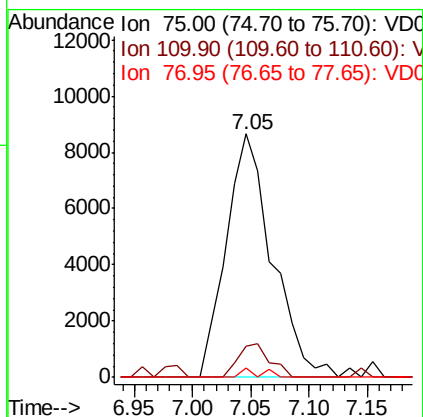
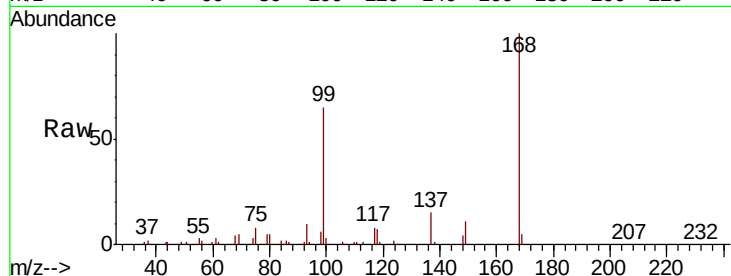
Tgt Ion: 75 Resp: 23667

Ion Ratio Lower Upper

75 100

110 12.6 16.1 48.2#

77 3.7 22.7 34.1#



#38

Carbon Tetrachloride

Concen: 4.500 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

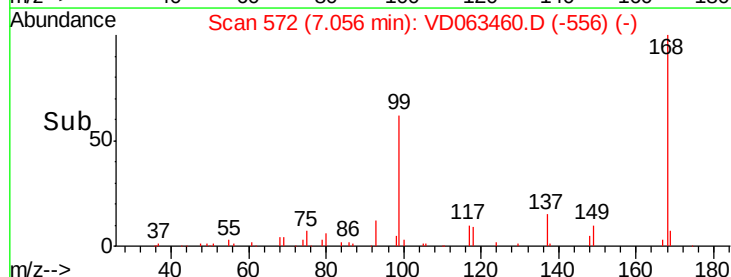
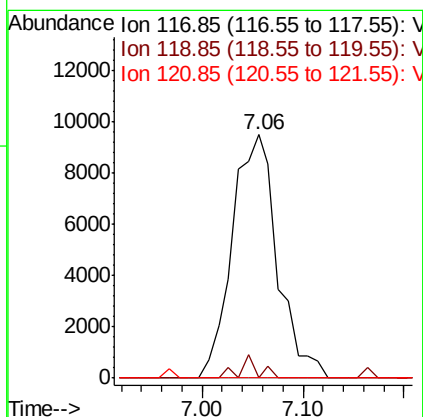
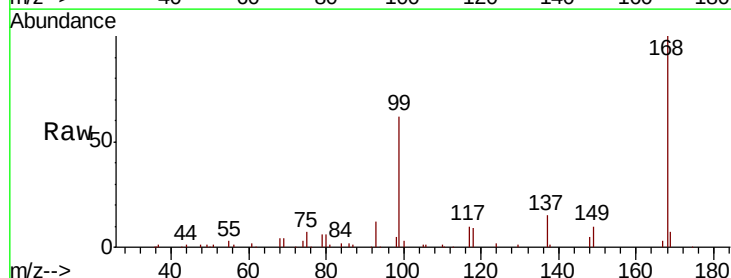
Tgt Ion: 117 Resp: 29476

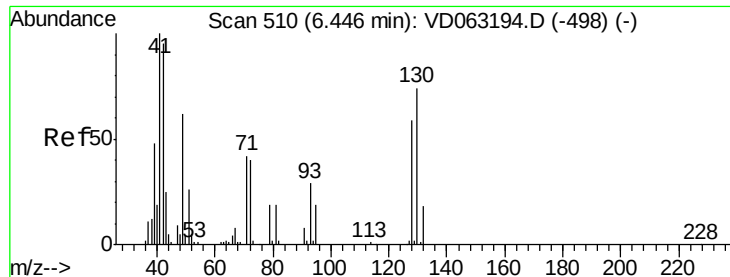
Ion Ratio Lower Upper

117 100

119 0.0 78.2 117.2#

121 0.0 22.1 33.1#





#41

Methacrylonitrile

Concen: 1.848 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD063460.D

Acq: 9 Aug 2019 2:58

Instrument :

MSVOA_D

ClientSampleId :

SP-14

Tgt Ion: 41 Resp: 4321

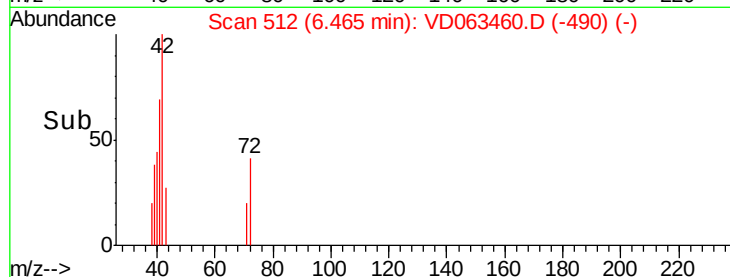
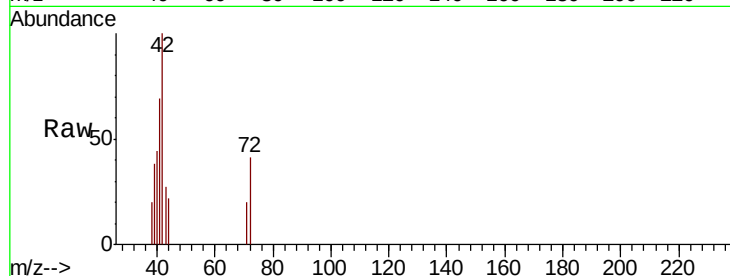
Ion Ratio Lower Upper

41 100

39 55.6 38.4 57.6

67 0.0 6.7 10.1#

52 0.0 4.3 6.5#

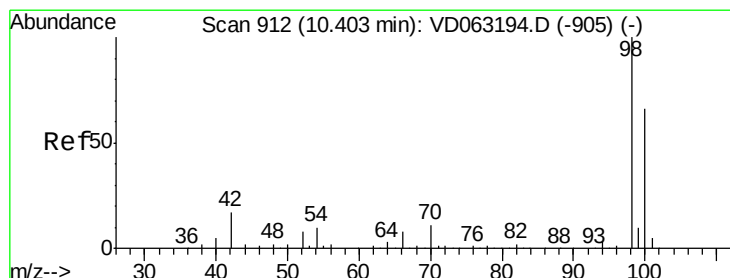
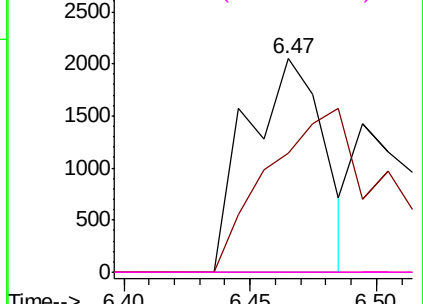


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#50

Toluene-d8

Concen: 31.282 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD063460.D

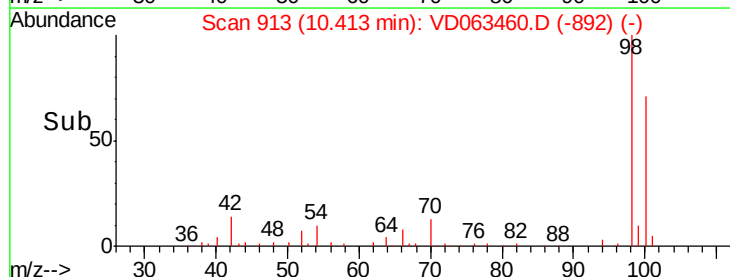
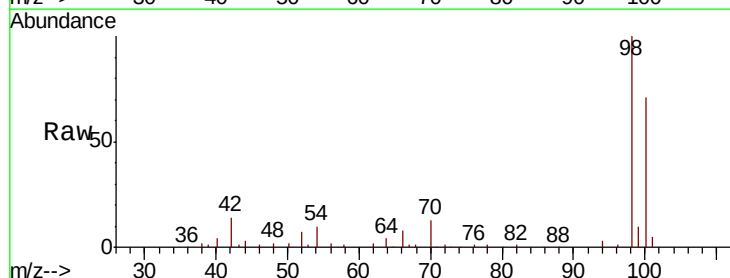
Acq: 9 Aug 2019 2:58

Tgt Ion: 98 Resp: 284970

Ion Ratio Lower Upper

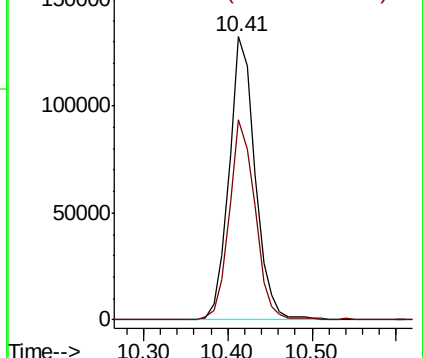
98 100

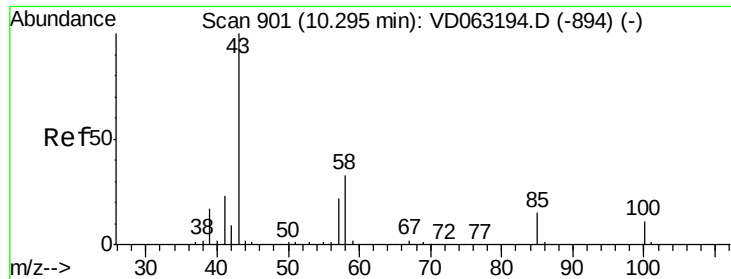
100 70.9 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

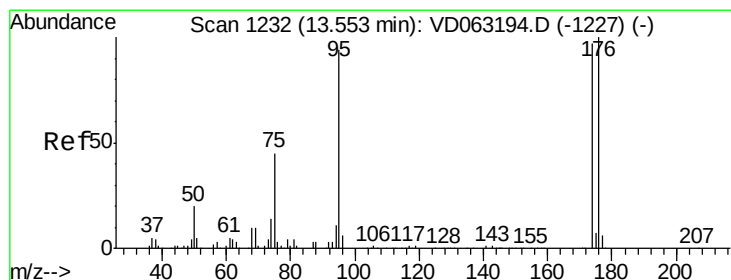
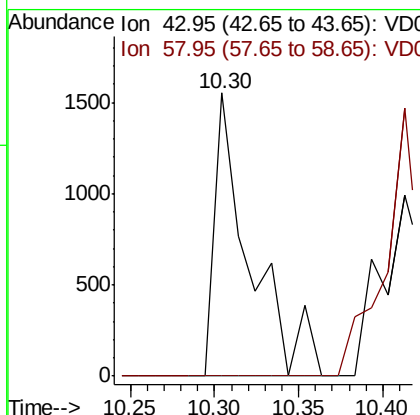
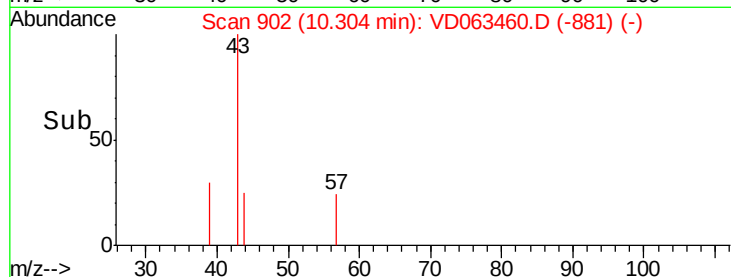
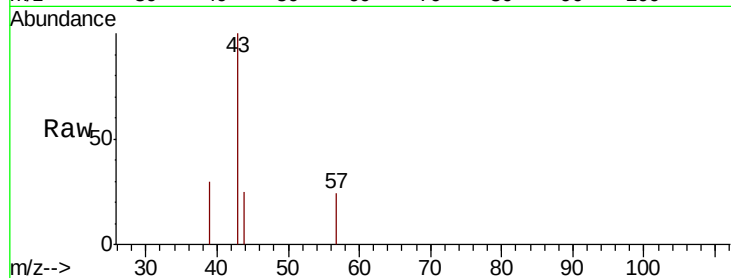




#51
4-Methyl-2-Pentanone
Concen: 1.320 ug/l
RT: 10.30 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD063460.D
Acq: 9 Aug 2019 2:58

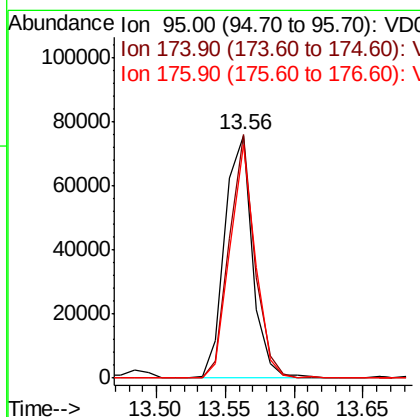
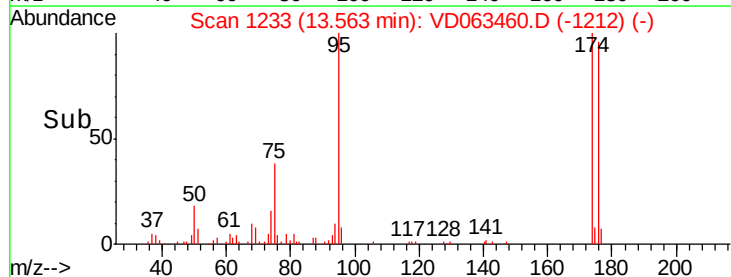
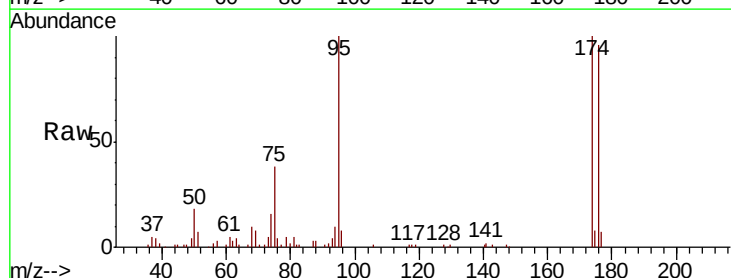
Instrument :
MSVOA_D
ClientSampleId :
SP-14

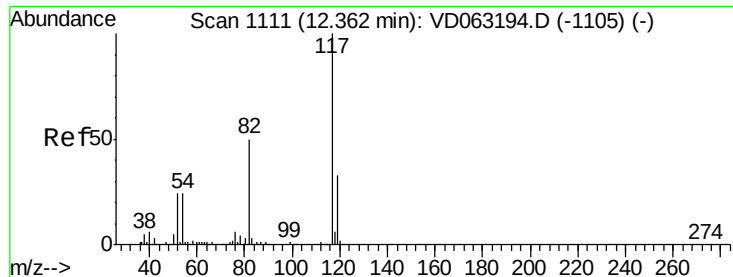
Tgt Ion: 43 Resp: 2242
Ion Ratio Lower Upper
43 100
58 0.0 26.2 39.2#



#62
4-Bromofluorobenzene
Concen: 25.279 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063460.D
Acq: 9 Aug 2019 2:58

Tgt Ion: 95 Resp: 104939
Ion Ratio Lower Upper
95 100
174 100.5 0.0 205.4
176 96.1 0.0 211.8

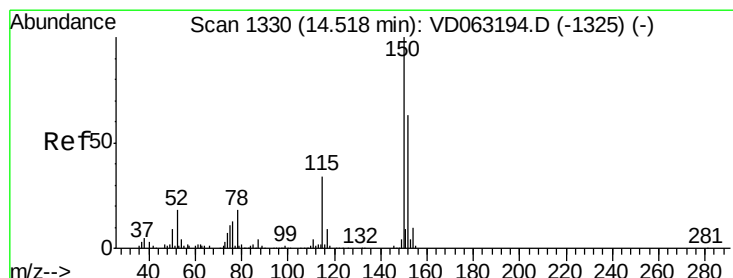
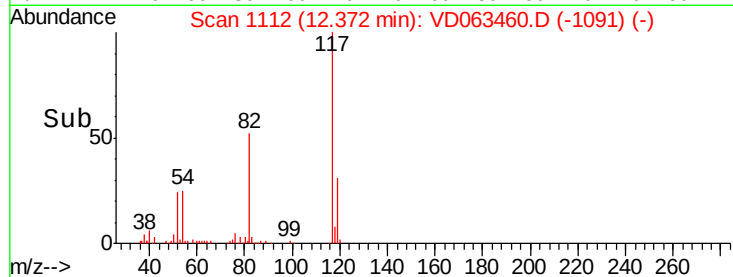
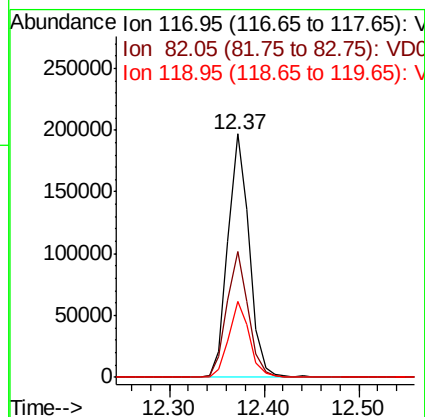
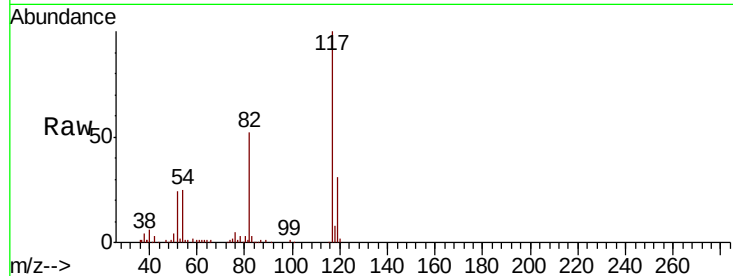




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063460.D
Acq: 9 Aug 2019 2:58

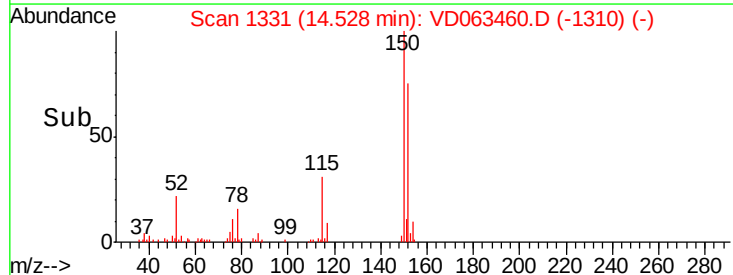
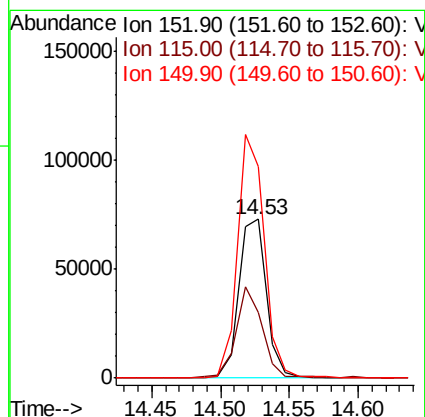
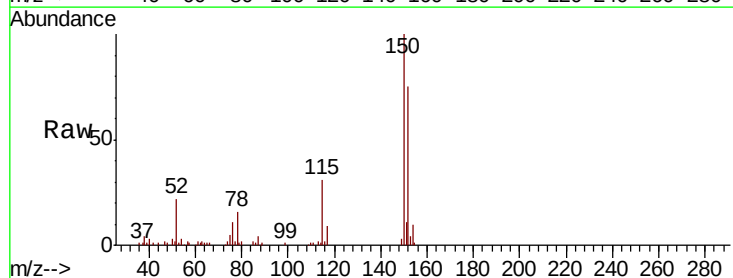
Instrument :
MSVOA_D
ClientSampled :
SP-14

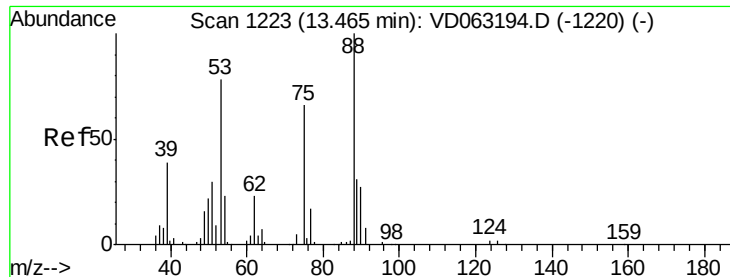
Tgt Ion:117 Resp: 305973
Ion Ratio Lower Upper
117 100
82 51.6 40.1 60.1
119 31.4 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063460.D
Acq: 9 Aug 2019 2:58

Tgt Ion:152 Resp: 102932
Ion Ratio Lower Upper
152 100
115 41.5 27.5 82.4
150 133.3 0.0 320.6

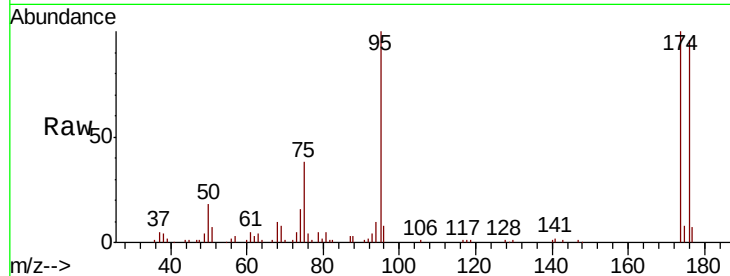




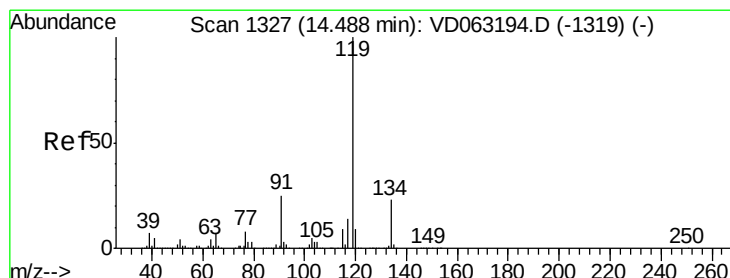
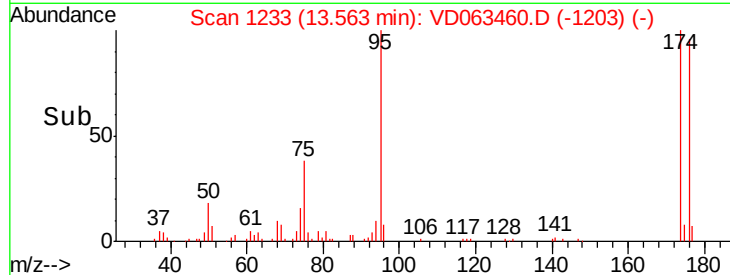
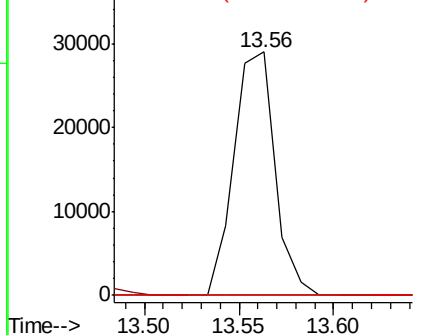
#81
trans-1,4-Dichloro-2-butene
Concen: 126.140 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.10 min
Lab File: VD063460.D
Acq: 9 Aug 2019 2:58

Instrument :
MSVOA_D
ClientSampled :
SP-14

Tgt Ion: 75 Resp: 43305
Ion Ratio Lower Upper
75 100
53 0.0 94.9 142.3#
89 0.0 37.4 56.0#

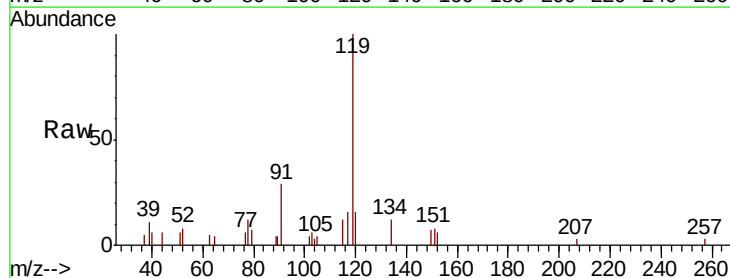


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

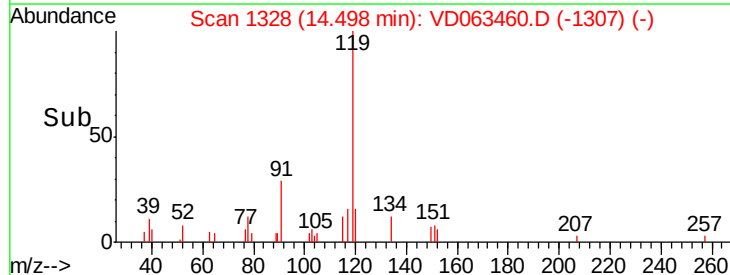
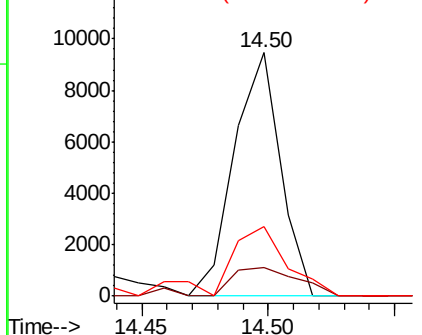


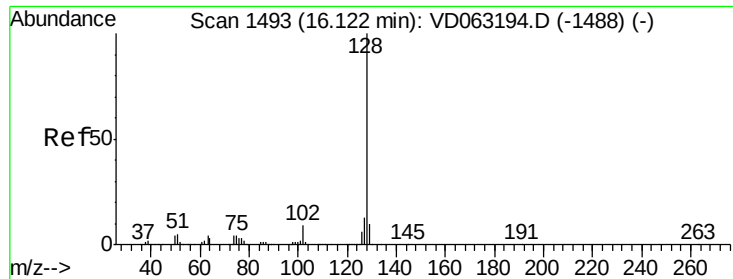
#86
p-Isopropyltoluene
Concen: 1.885 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VD063460.D
Acq: 9 Aug 2019 2:58

Tgt Ion: 119 Resp: 12058
Ion Ratio Lower Upper
119 100
134 11.6 11.5 34.5
91 28.8 12.6 37.6



Abundance Ion 119.05 (118.75 to 119.75): V
Ion 134.10 (133.80 to 134.80): V
Ion 91.00 (90.70 to 91.70): VDC





#95
Naphthalene
Concen: 3.239 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD063460.D
Acq: 9 Aug 2019 2:58

Instrument :
MSVOA_D
ClientSampleId :
SP-14

Tgt Ion:128 Resp: 10314
Ion Ratio Lower Upper
128 100
127 10.0 10.2 15.4#
129 7.5 7.8 11.8#

