

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071719\
 Data File : VD063128.D
 Acq On : 17 Jul 2019 13:43
 Operator : VA/AP
 Sample : K3627-03RE
 Misc : 3.61g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 18 06:55:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	54170	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	87671	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	78368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	42640	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	46794	69.35	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	138.70%	
35) Dibromofluoromethane	6.92	113	38910	44.56	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.12%	
50) Toluene-d8	10.40	98	71966	38.37	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	76.74%	
62) 4-Bromofluorobenzene	13.55	95	33429	38.52	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	77.04%	

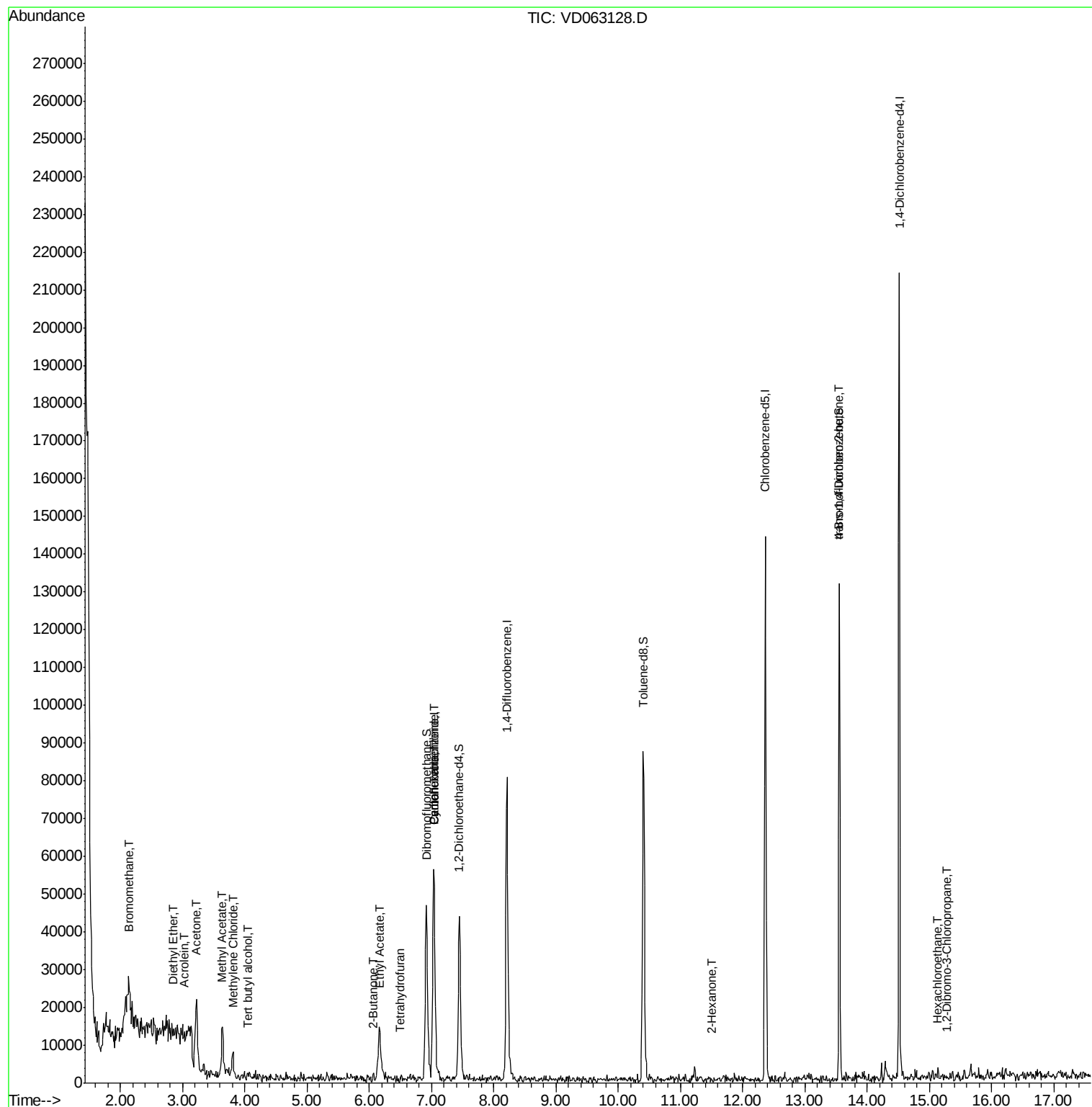
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.81	50	943	Below Cal	#	48
5) Bromomethane	2.12	94	1821	5.331	ug/l #	13
8) Diethyl Ether	2.86	74	262	1.591	ug/l	51
11) Tert butyl alcohol	4.04	59	198	5.084	ug/l #	77
13) Acrolein	3.02	56	222	18.888	ug/l #	17
16) Acetone	3.23	43	34613	212.374	ug/l	96
18) Methyl Acetate	3.63	43	21799	95.470	ug/l #	88
20) Methylene Chloride	3.81	84	2185	3.549	ug/l #	97
25) 2-Butanone	6.07	43	559	3.592	ug/l #	61
29) Tetrahydrofuran	6.50	42	220	3.118	ug/l #	33
31) Cyclohexane	7.04	56	822	1.280	ug/l #	6
37) Ethyl Acetate	6.18	43	1160	2.749	ug/l #	71
38) Carbon Tetrachloride	7.05	117	5929	3.957	ug/l #	10
59) 2-Hexanone	11.50	43	393	1.270	ug/l #	32
81) trans-1,4-Dichloro-2-buten	13.55	75	14776	85.544	ug/l #	1
90) Hexachloroethane	15.13	117	879	1.022	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	15.30	75	181	1.576	ug/l #	9

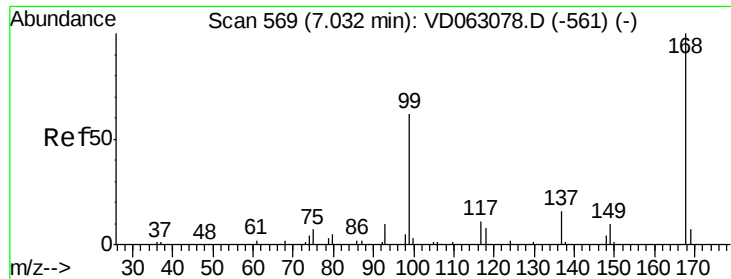
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD063128.D

Acq: 17 Jul 2019 13:43

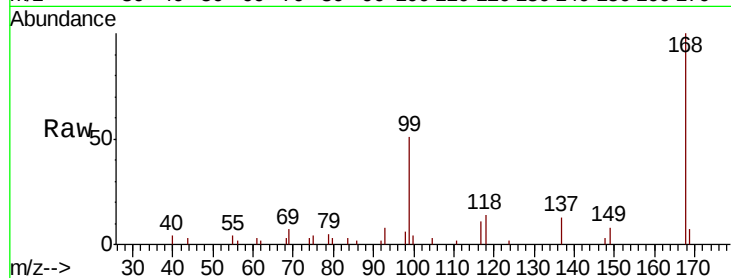
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 54170

Ion Ratio Lower Upper

168 100

99 51.0 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

20000

15000

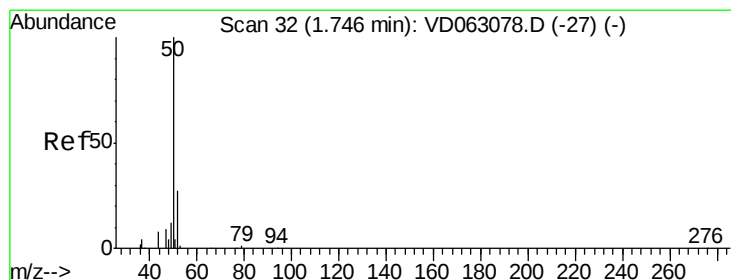
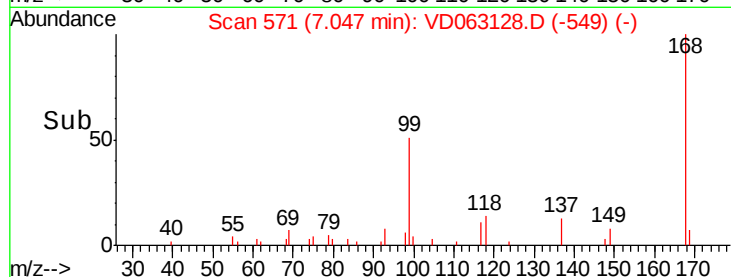
10000

5000

0

6.90 7.00 7.10 7.20

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.81 min Scan# 39

Delta R.T. 0.06 min

Lab File: VD063128.D

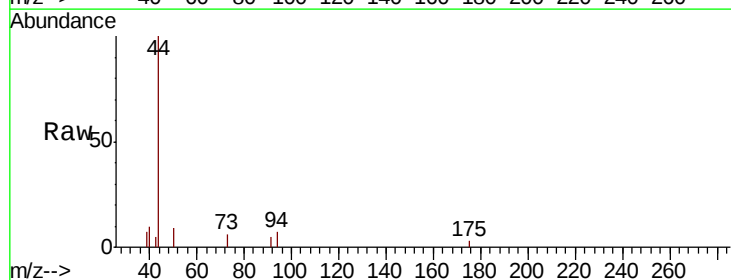
Acq: 17 Jul 2019 13:43

Tgt Ion: 50 Resp: 943

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.81

1000

800

600

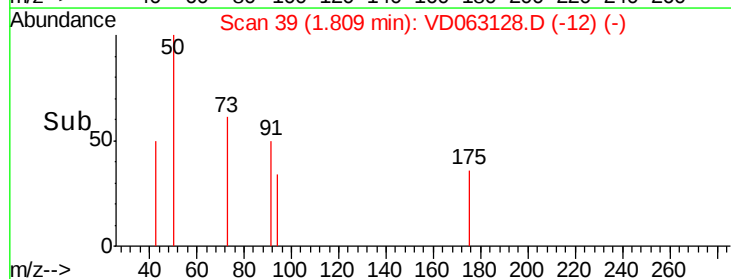
400

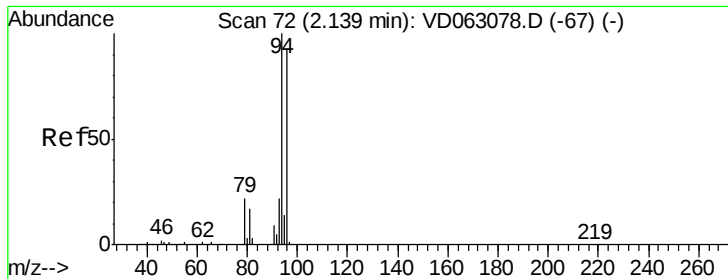
200

0

1.78 1.80 1.82 1.84

Time-->





#5

Bromomethane

Concen: 5.331 ug/l

RT: 2.12 min Scan# 71

Delta R.T. -0.01 min

Lab File: VD063128.D

Acq: 17 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampled :

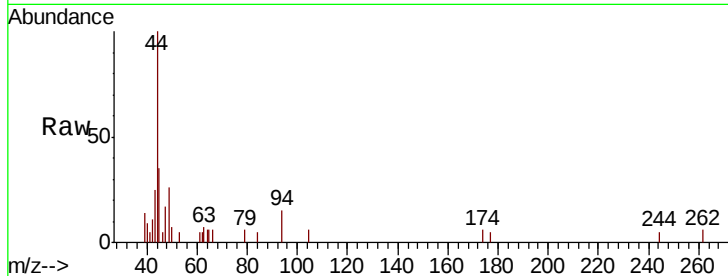
Tot Ion: 94 Resp: 1821

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

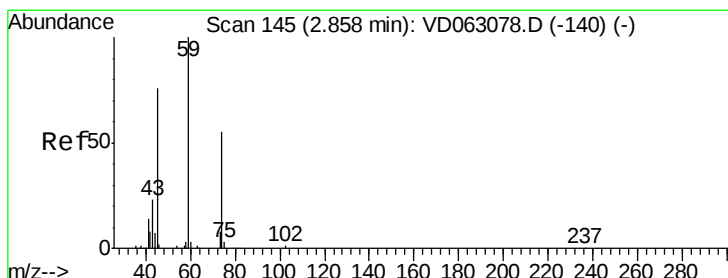
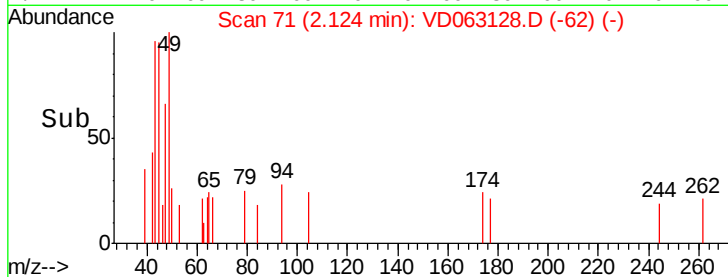
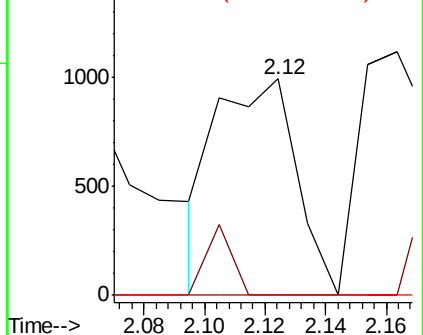
93 0.0 17.8 26.6#



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



#8

Diethyl Ether

Concen: 1.591 ug/l

RT: 2.86 min Scan# 146

Delta R.T. 0.00 min

Lab File: VD063128.D

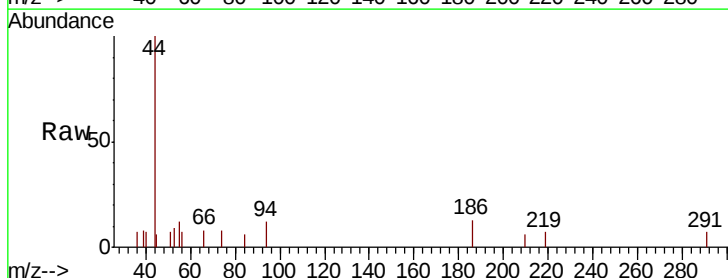
Acq: 17 Jul 2019 13:43

Tgt Ion: 74 Resp: 262

Ion Ratio Lower Upper

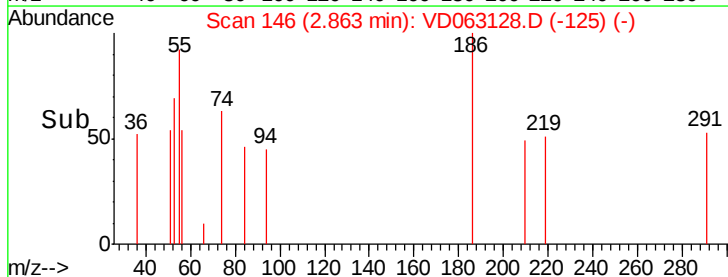
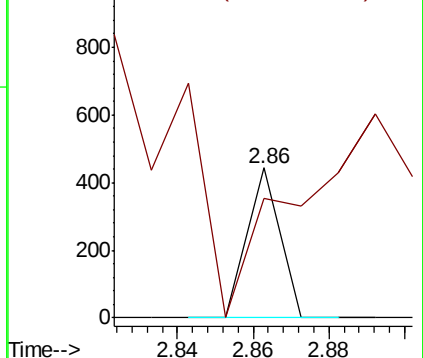
74 100

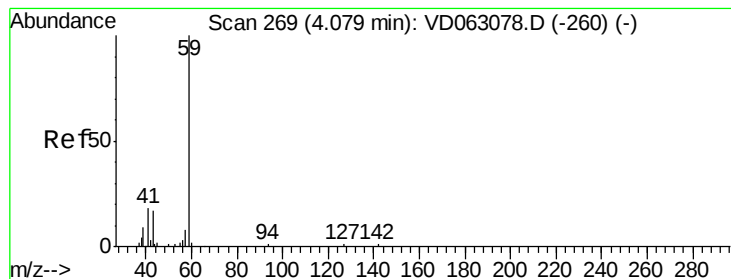
45 79.5 69.5 208.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



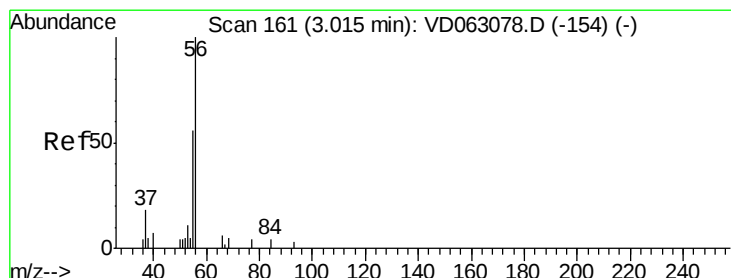
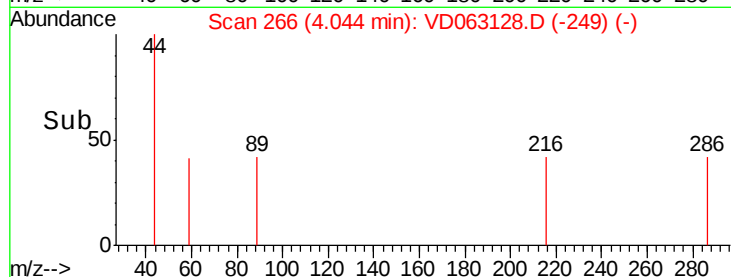
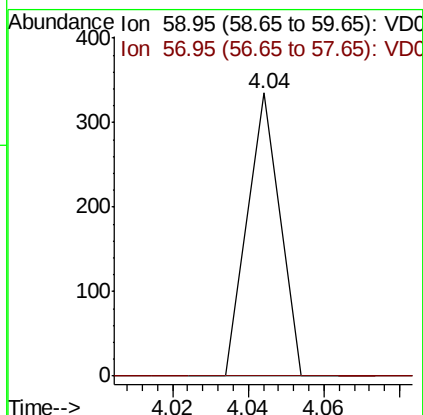
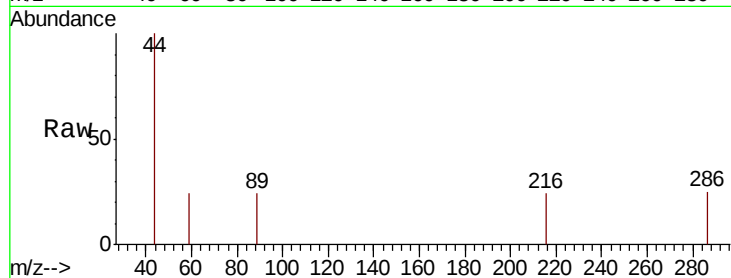


#11

Tert butyl alcohol
 Concen: 5.084 ug/l
 RT: 4.04 min Scan# 266
 Delta R.T. -0.03 min
 Lab File: VD063128.D
 Acq: 17 Jul 2019 13:43

Instrument :
 MSVOA_D
 ClientSampleId :

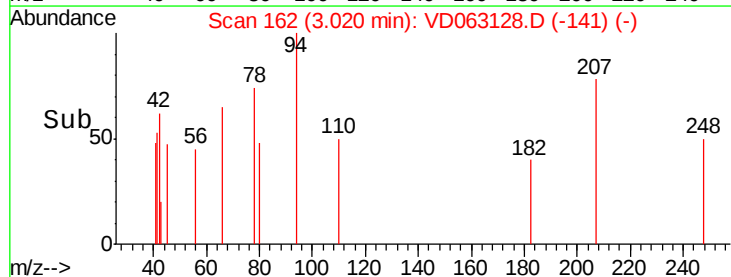
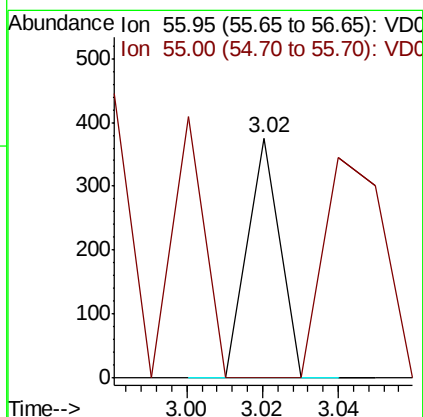
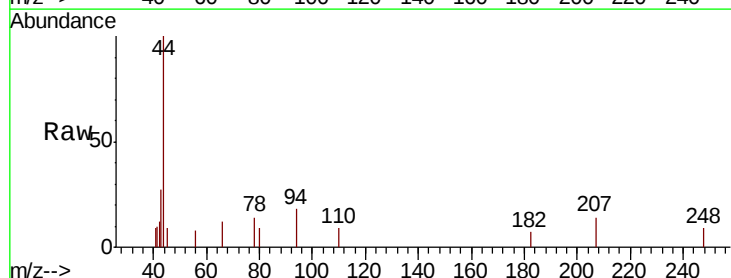
Tot Ion: 59 Resp: 198
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#

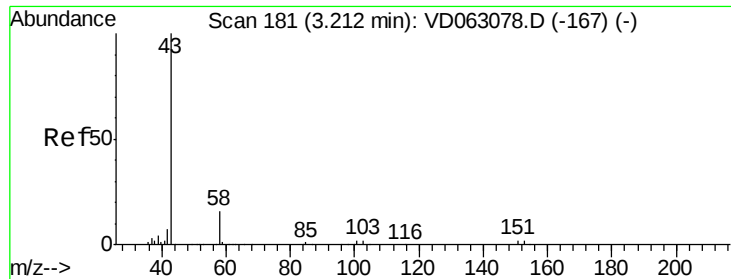


#13

Acrolein
 Concen: 18.888 ug/l
 RT: 3.02 min Scan# 162
 Delta R.T. 0.00 min
 Lab File: VD063128.D
 Acq: 17 Jul 2019 13:43

Tgt Ion: 56 Resp: 222
 Ion Ratio Lower Upper
 56 100
 55 0.0 53.0 79.4#

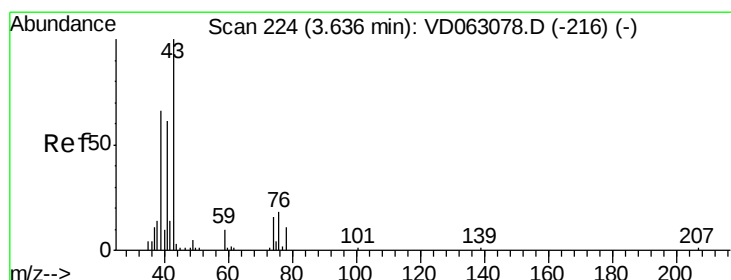
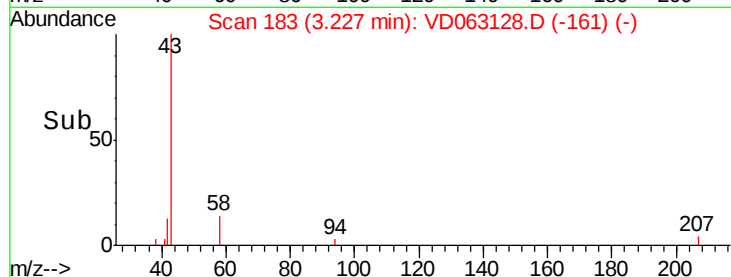
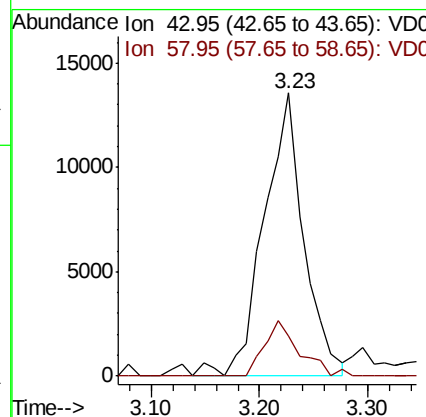
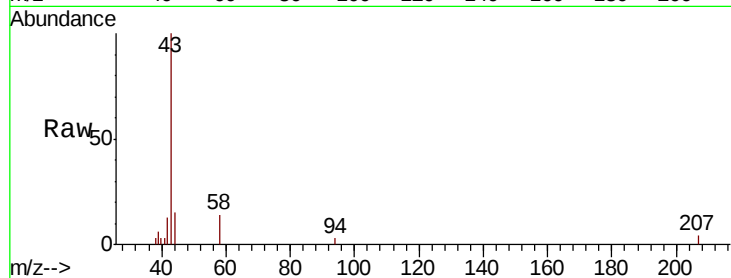




#16
Acetone
Concen: 212.374 ug/l
RT: 3.23 min Scan# 183
Delta R.T. 0.01 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

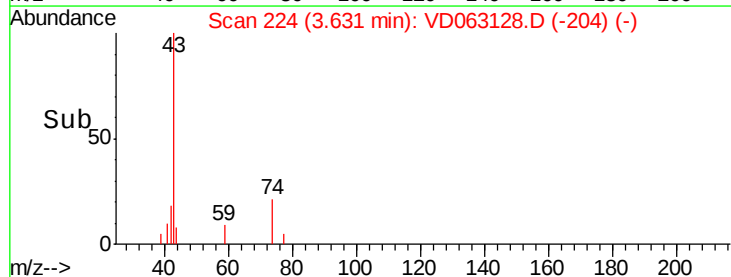
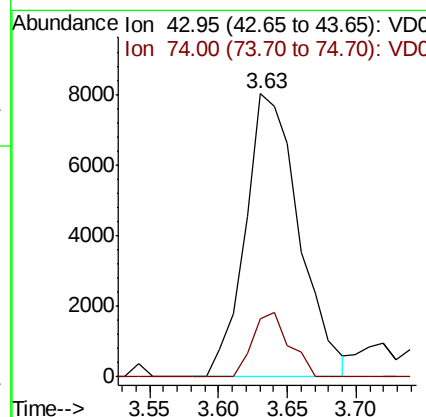
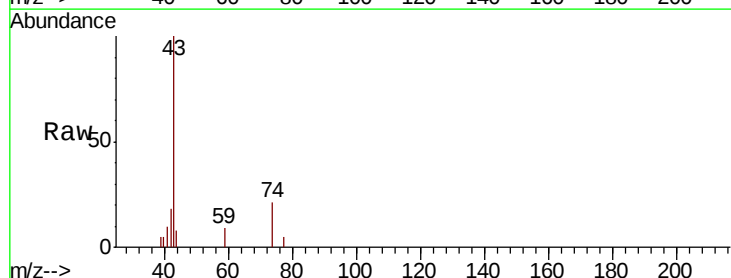
Instrument :
MSVOA_D
ClientSampleId :

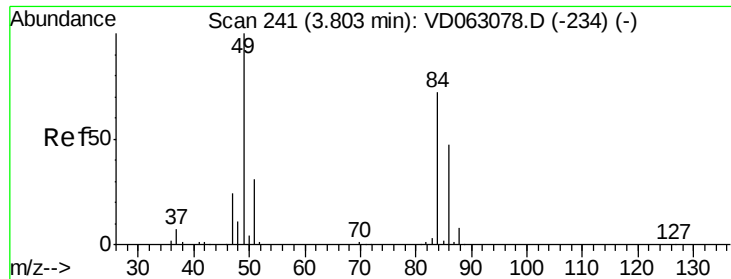
Tot Ion: 43 Resp: 34613
Ion Ratio Lower Upper
43 100
58 14.3 13.0 19.4



#18
Methyl Acetate
Concen: 95.470 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.00 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

Tgt Ion: 43 Resp: 21799
Ion Ratio Lower Upper
43 100
74 20.6 12.5 18.7#

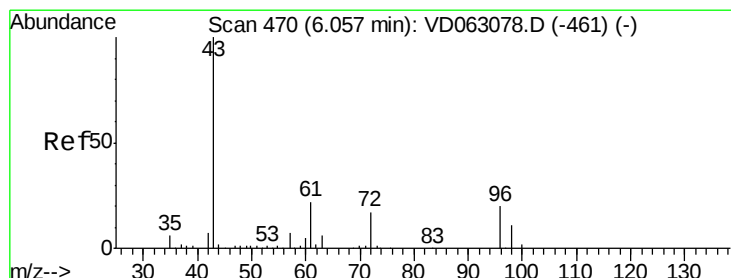
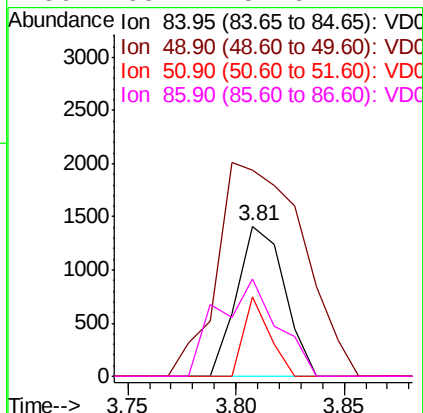
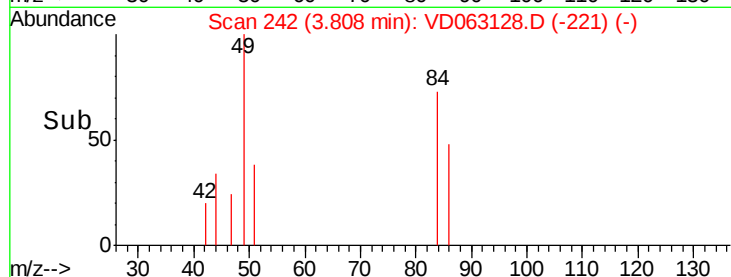
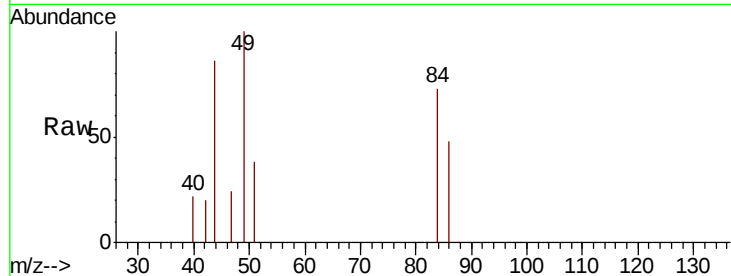




#20
Methvlene Chloride
Concen: 3.549 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

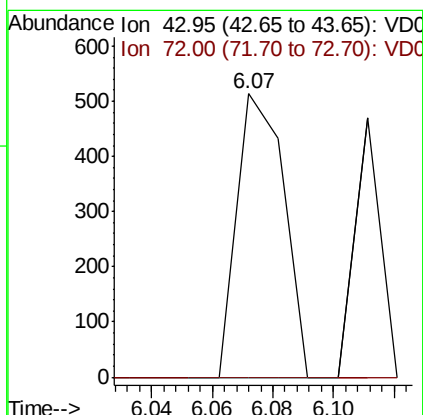
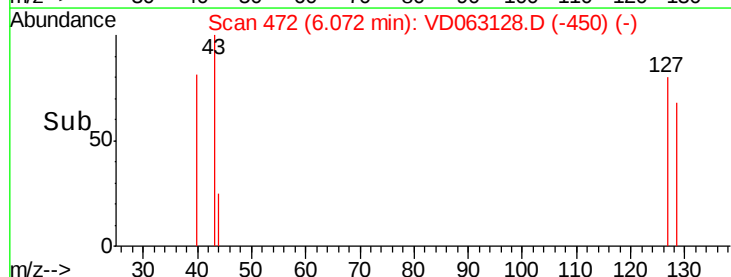
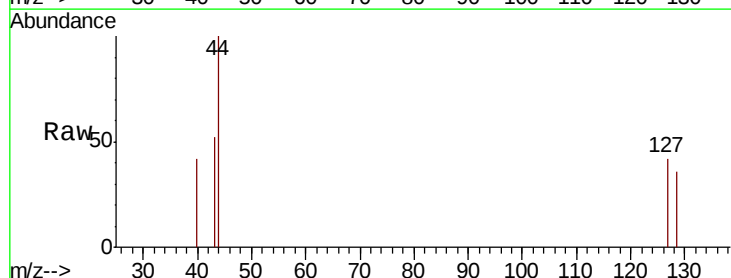
Instrument :
MSVOA_D
ClientSampleId :

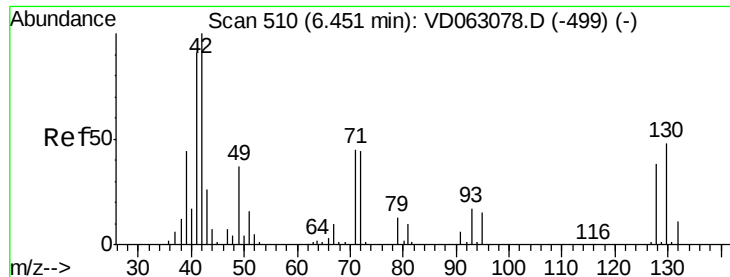
Tot Ion: 84 Resp: 2185
Ion Ratio Lower Upper
84 100
49 137.0 110.5 165.7
51 52.5 34.6 51.8#
86 65.1 51.6 77.4



#25
2-Butanone
Concen: 3.592 ug/l
RT: 6.07 min Scan# 472
Delta R.T. 0.01 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

Tgt Ion: 43 Resp: 559
Ion Ratio Lower Upper
43 100
72 0.0 13.4 20.0#





#29

Tetrahydrofuran

Concen: 3.118 ug/l

RT: 6.50 min Scan# 515

Delta R.T. 0.04 min

Lab File: VD063128.D

Acq: 17 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampled :

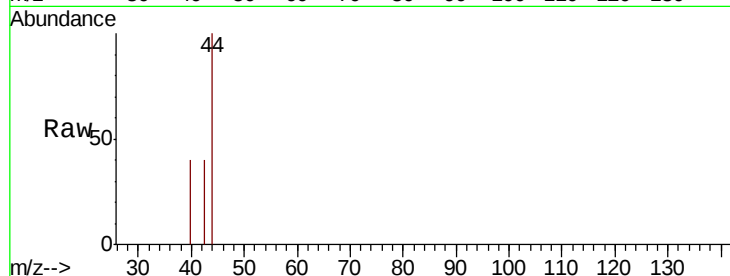
Tot Ion: 42 Resp: 220

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

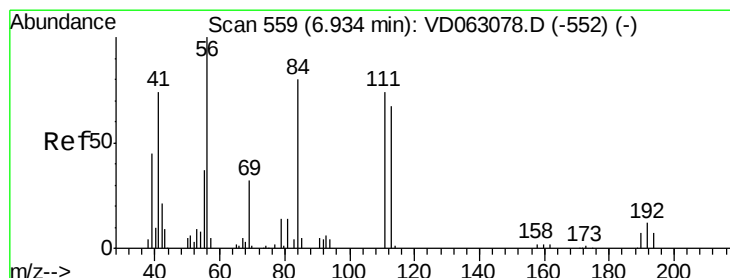
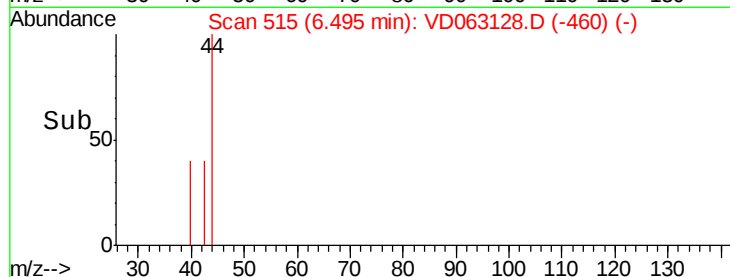
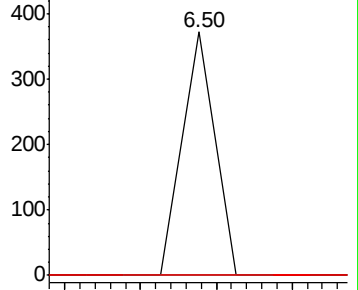
71 0.0 34.2 51.2#



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: 1.280 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063128.D

Acq: 17 Jul 2019 13:43

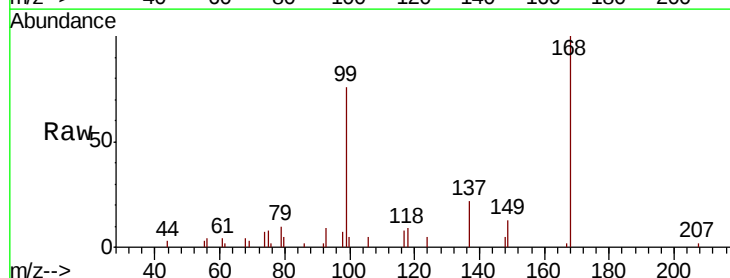
Tgt Ion: 56 Resp: 822

Ion Ratio Lower Upper

56 100

69 87.7 25.3 37.9#

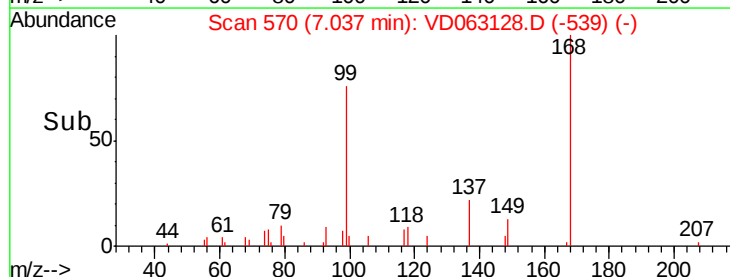
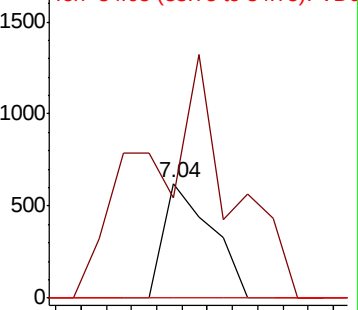
84 0.0 64.2 96.4#

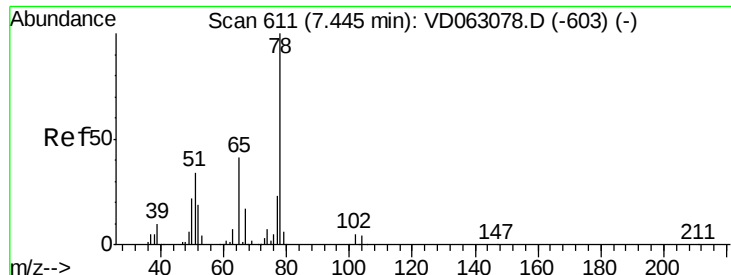


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

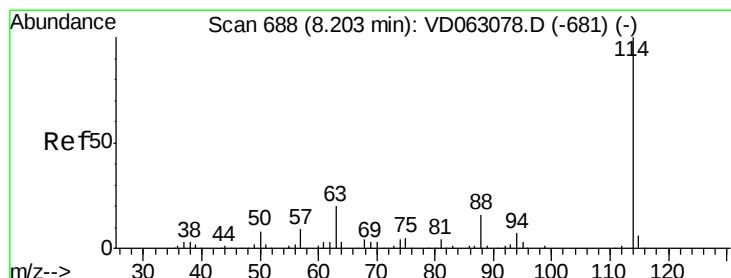
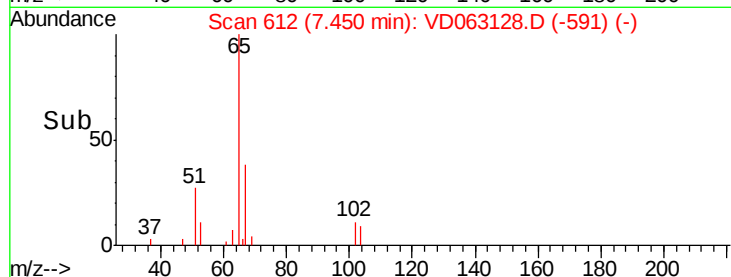
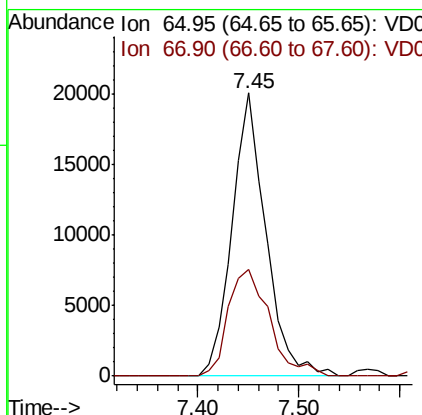
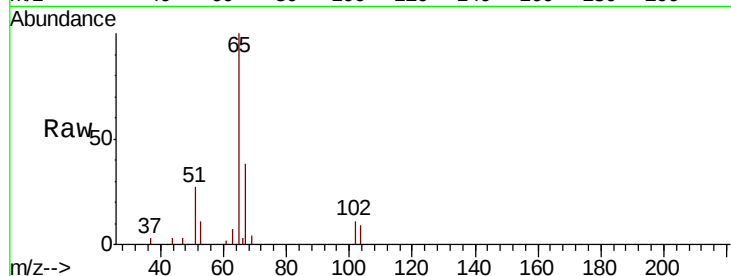




#33
 1,2-Dichloroethane-d4
 Concen: 69.346 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VD063128.D
 Acq: 17 Jul 2019 13:43

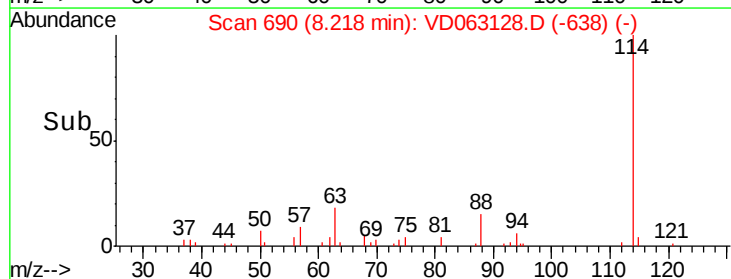
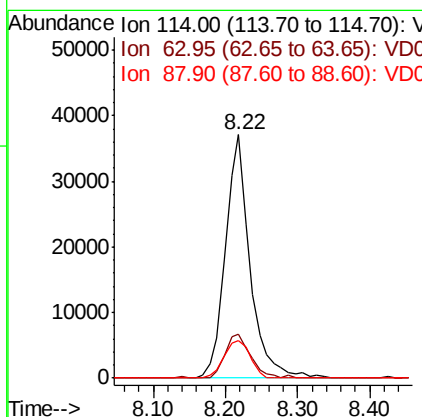
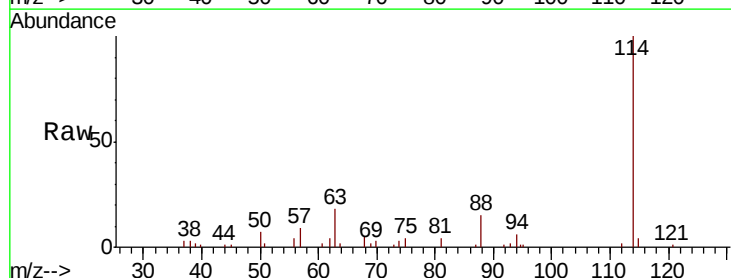
Instrument :
 MSVOA_D
 ClientSampleId :

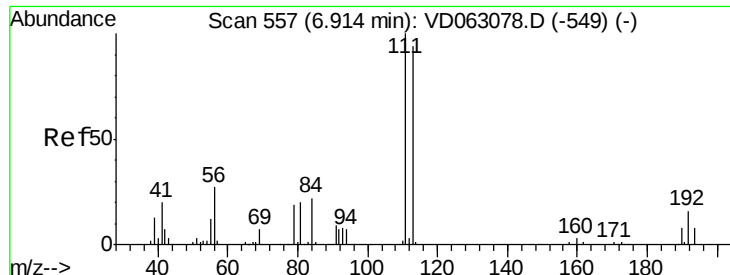
Tot Ion: 65 Resp: 46794
 Ion Ratio Lower Upper
 65 100
 67 37.7 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063128.D
 Acq: 17 Jul 2019 13:43

Tgt Ion: 114 Resp: 87671
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 40.6
 88 15.5 0.0 32.6

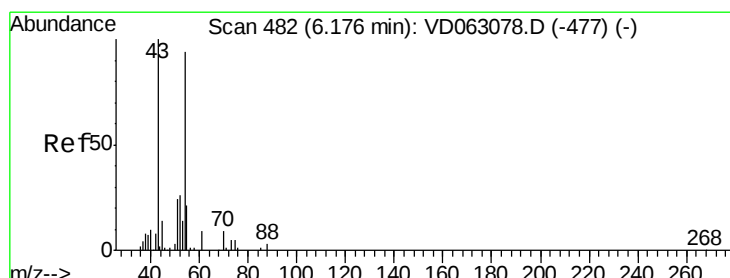
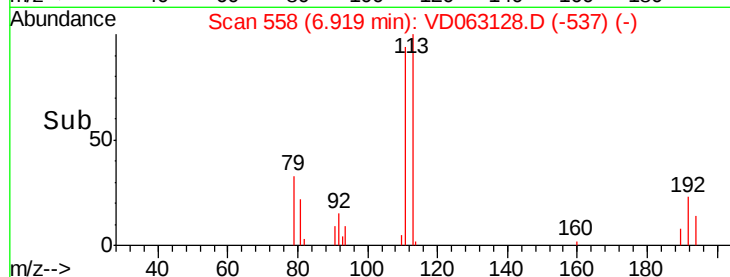
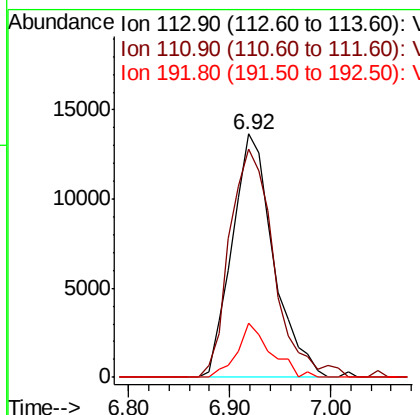
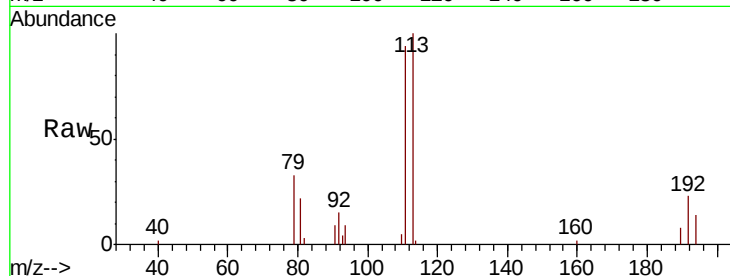




#35
 Dibromofluoromethane
 Concen: 44.559 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.00 min
 Lab File: VD063128.D
 Acq: 17 Jul 2019 13:43

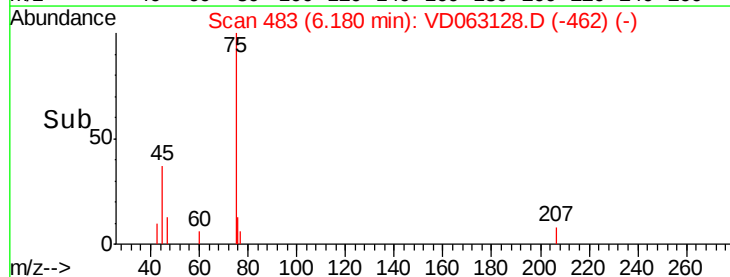
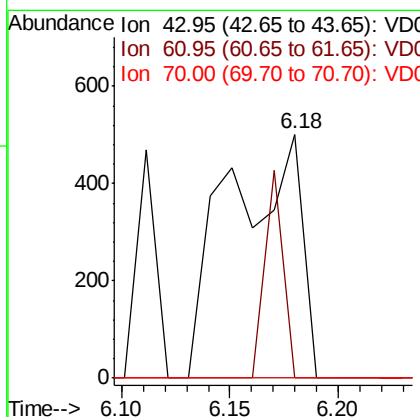
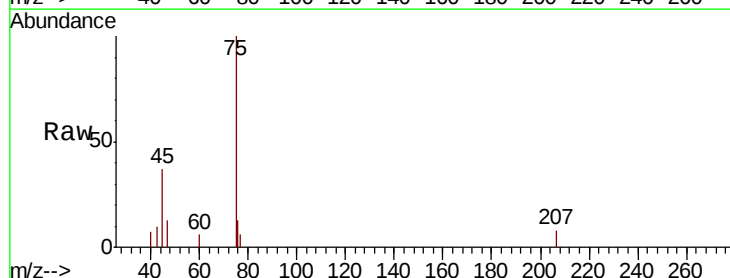
Instrument :
 MSVOA_D
 ClientSampleId :

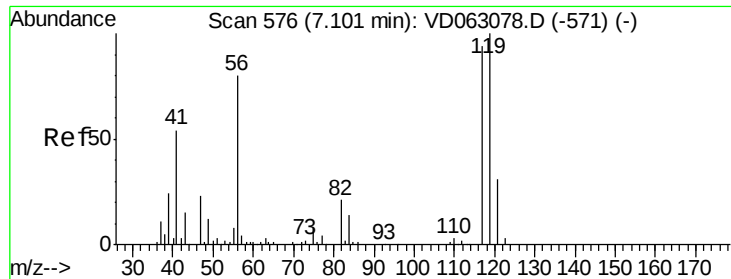
Tot Ion:113 Resp: 38910
 Ion Ratio Lower Upper
 113 100
 111 94.0 84.8 127.2
 192 22.5 13.4 20.0#



#37
 Ethyl Acetate
 Concen: 2.749 ug/l
 RT: 6.18 min Scan# 483
 Delta R.T. 0.00 min
 Lab File: VD063128.D
 Acq: 17 Jul 2019 13:43

Tgt Ion: 43 Resp: 1160
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 16.0#
 70 0.0 6.6 9.8#

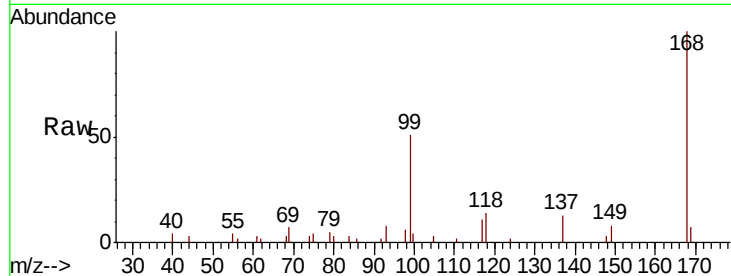




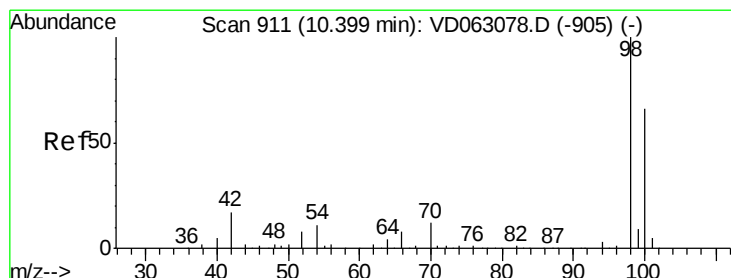
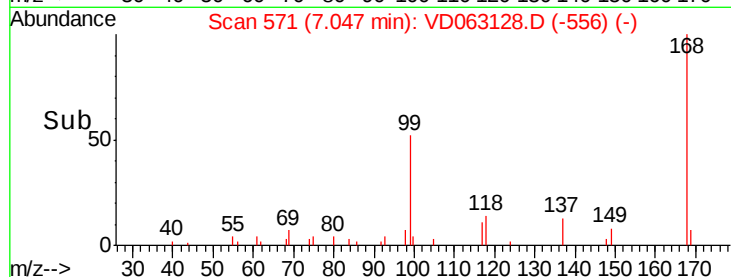
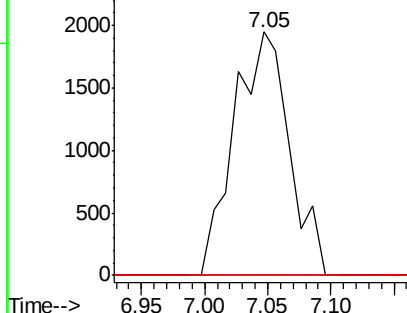
#38
Carbon Tetrachloride
Concen: 3.957 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 5929
Ion Ratio Lower Upper
117 100
119 0.0 80.0 120.0#
121 0.0 25.0 37.4#

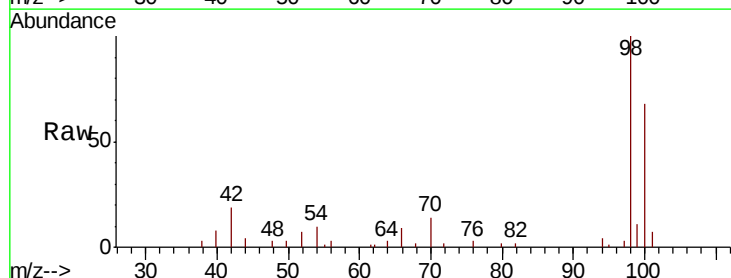


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

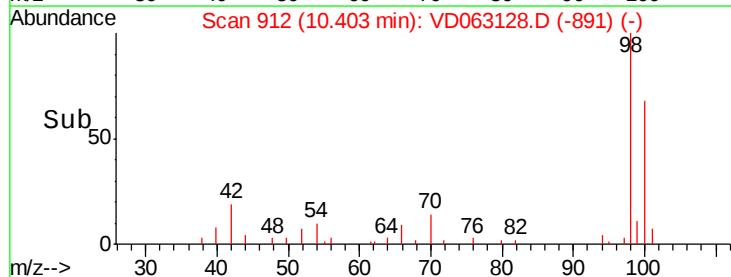
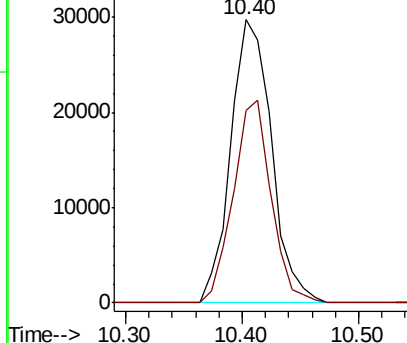


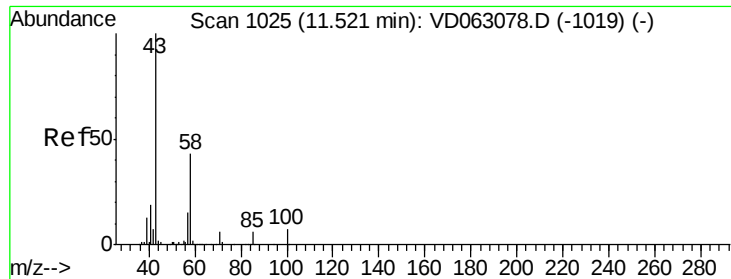
#50
Toluene-d8
Concen: 38.368 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

Tgt Ion: 98 Resp: 71966
Ion Ratio Lower Upper
98 100
100 68.0 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V

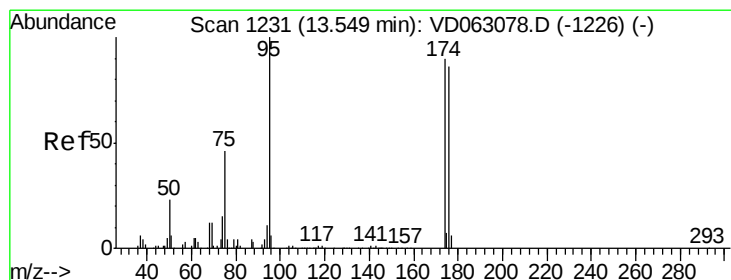
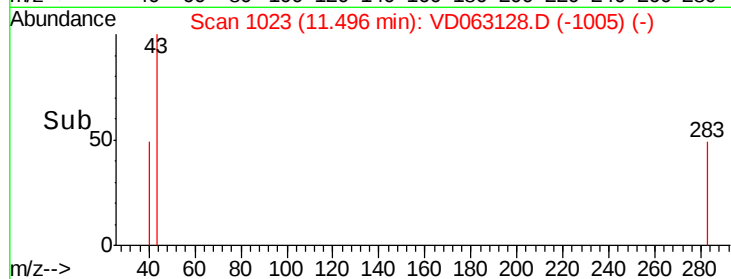
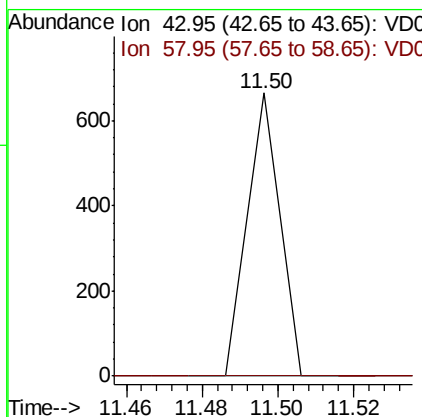
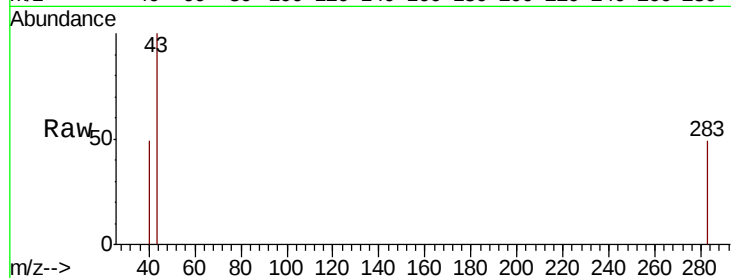




#59
2-Hexanone
Concen: 1.270 ug/l
RT: 11.50 min Scan# 1023
Delta R.T. -0.02 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

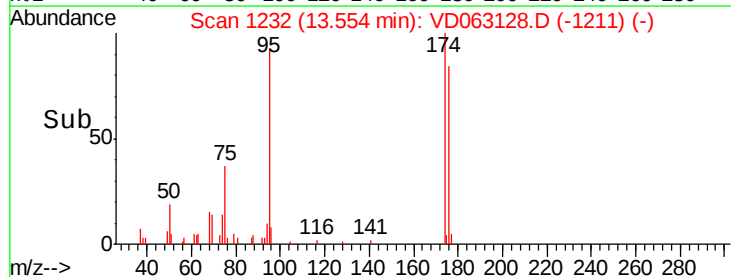
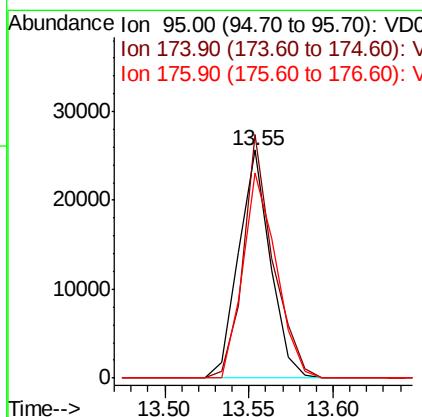
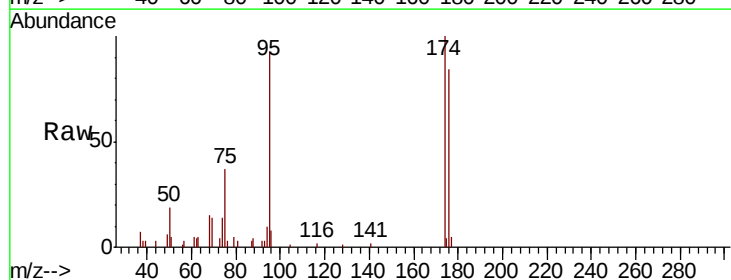
Instrument :
MSVOA_D
ClientSampleId :

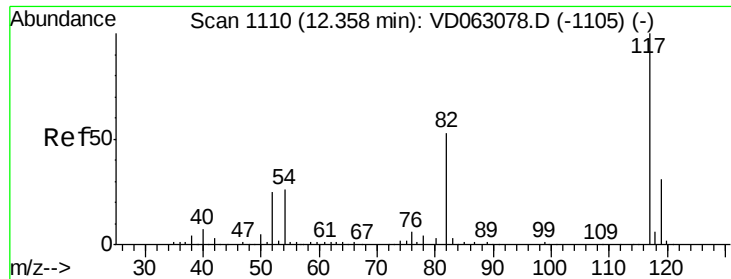
Tot Ion: 43 Resp: 393
Ion Ratio Lower Upper
43 100
58 0.0 21.7 65.1#



#62
4-Bromofluorobenzene
Concen: 38.523 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

Tgt Ion: 95 Resp: 33429
Ion Ratio Lower Upper
95 100
174 107.0 0.0 180.6
176 90.3 0.0 172.2

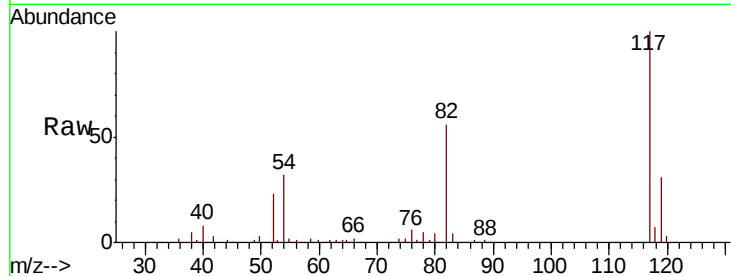




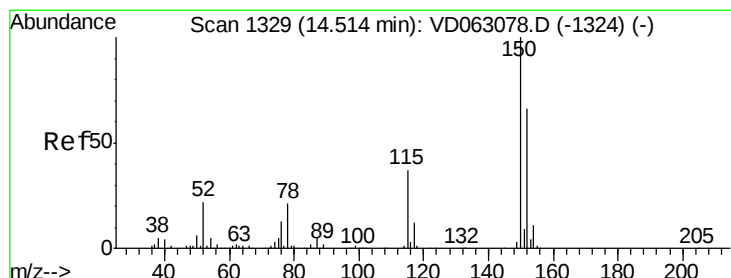
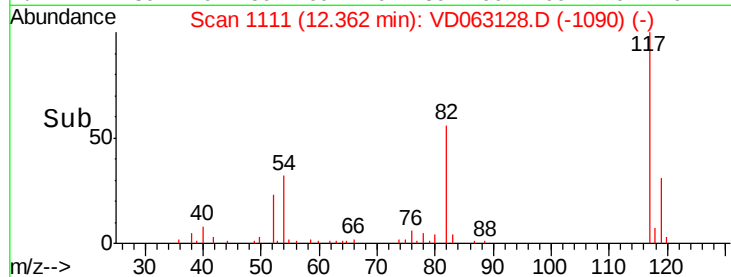
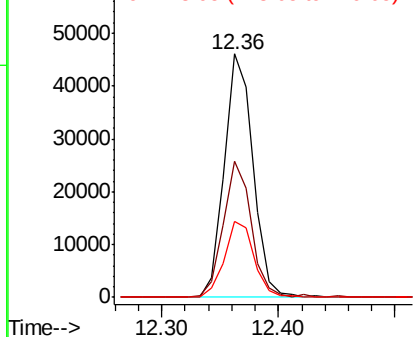
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 78368
Ion Ratio Lower Upper
117 100
82 56.1 42.3 63.5
119 31.0 25.2 37.8

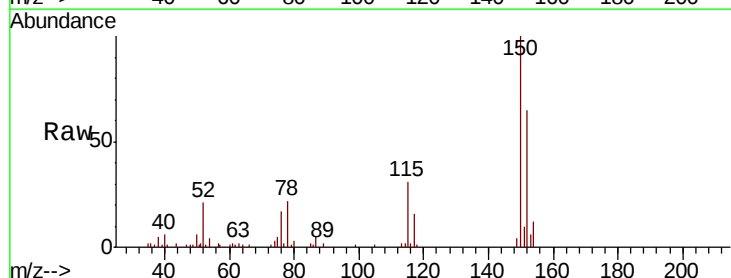


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VD
Ion 118.95 (118.65 to 119.65): V

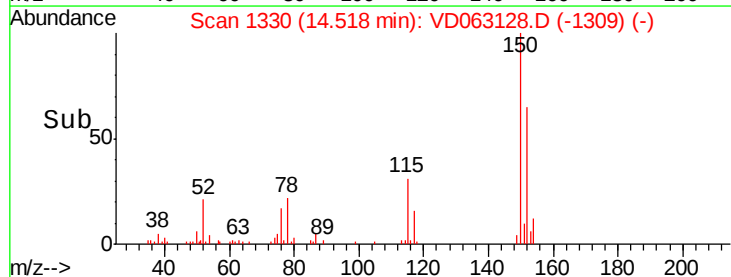
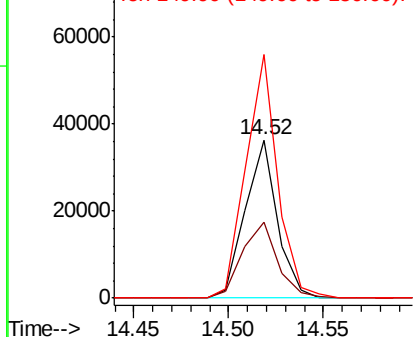


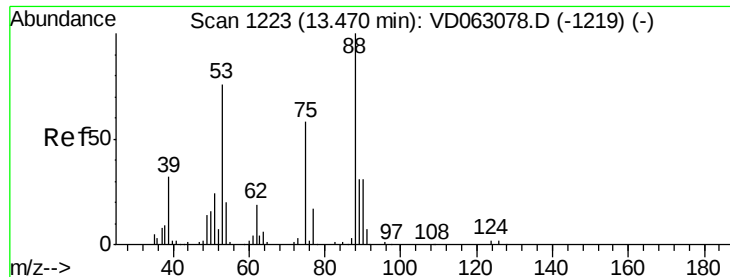
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063128.D
Acq: 17 Jul 2019 13:43

Tgt Ion:152 Resp: 42640
Ion Ratio Lower Upper
152 100
115 48.3 28.9 86.8
150 153.6 0.0 313.8



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





#81

trans-1,4-Dichloro-2-butene

Concen: 85.544 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063128.D

Acq: 17 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

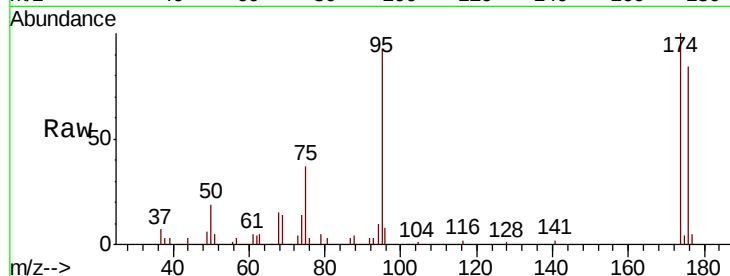
Tot Ion: 75 Resp: 14776

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

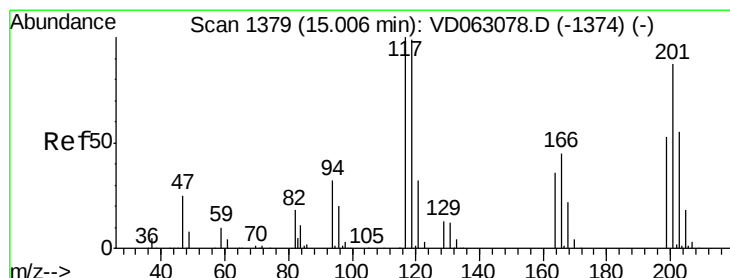
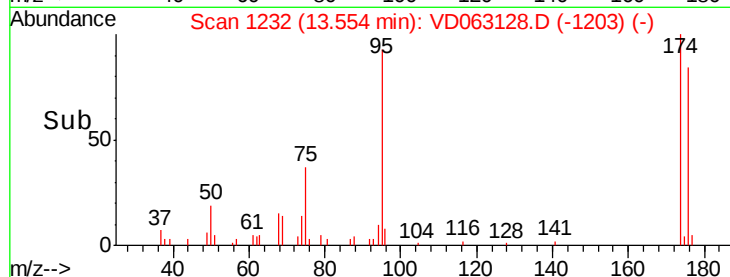
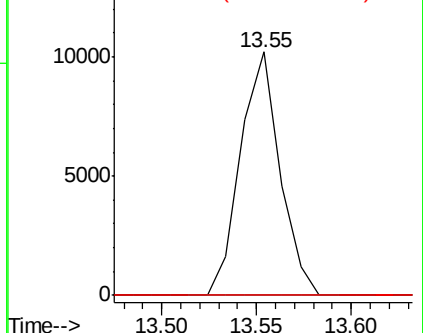
89 0.0 43.1 64.7#



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



#90

Hexachloroethane

Concen: 1.022 ug/l

RT: 15.13 min Scan# 1392

Delta R.T. 0.12 min

Lab File: VD063128.D

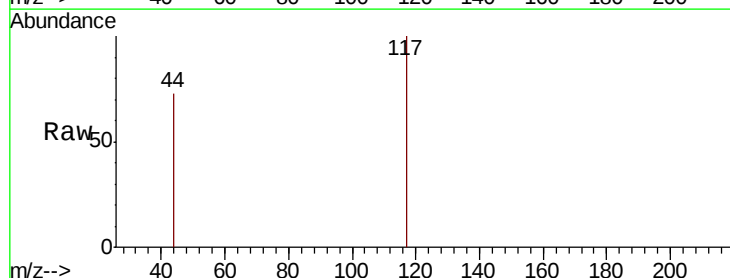
Acq: 17 Jul 2019 13:43

Tgt Ion: 117 Resp: 879

Ion Ratio Lower Upper

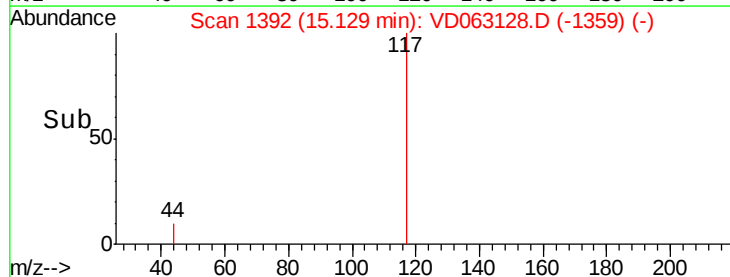
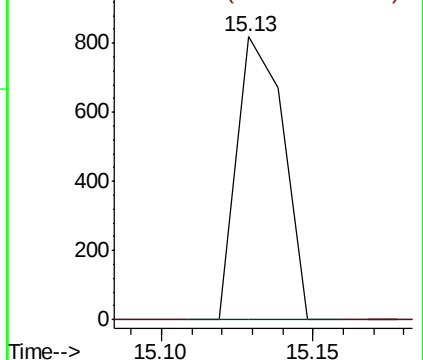
117 100

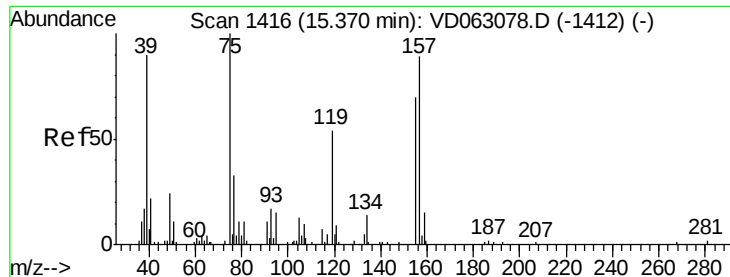
201 0.0 43.4 130.1#



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: 1.576 ug/l

RT: 15.30 min Scan# 1409

Delta R.T. -0.07 min

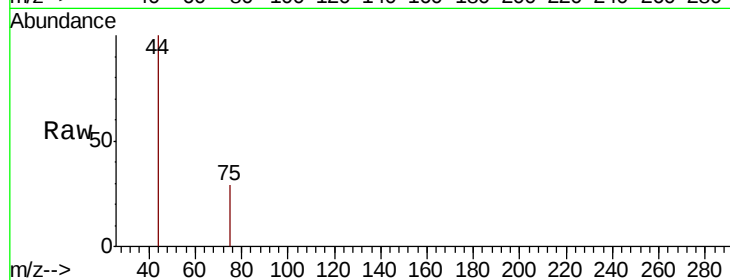
Lab File: VD063128.D

Acq: 17 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :



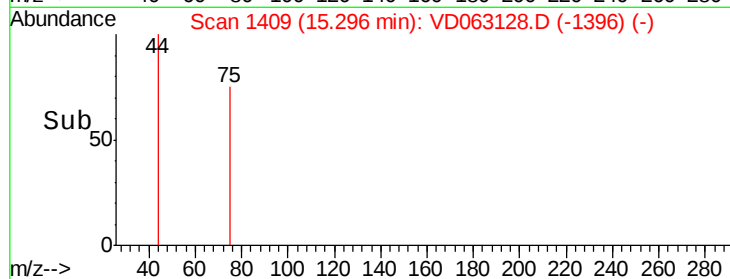
Tot Ion: 75 Resp: 181

Ion Ratio Lower Upper

75 100

155 0.0 34.8 104.3#

157 0.0 44.7 134.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

