

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063160.D
 Acq On : 19 Jul 2019 18:10
 Operator : VA/AP
 Sample : K3911-01
 Misc : 4.99g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 20 05:02:10 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	876600	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	1186711	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	948645	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	383209	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	437670	40.08	ug/l	0.00
Spiked Amount			Recovery	=	80.16%	
35) Dibromofluoromethane	6.92	113	406390	34.38	ug/l	0.00
Spiked Amount			Recovery	=	68.76%	
50) Toluene-d8	10.41	98	911809	35.91	ug/l	0.00
Spiked Amount			Recovery	=	71.82%	
62) 4-Bromofluorobenzene	13.56	95	371125	31.60	ug/l	0.00
Spiked Amount			Recovery	=	63.20%	

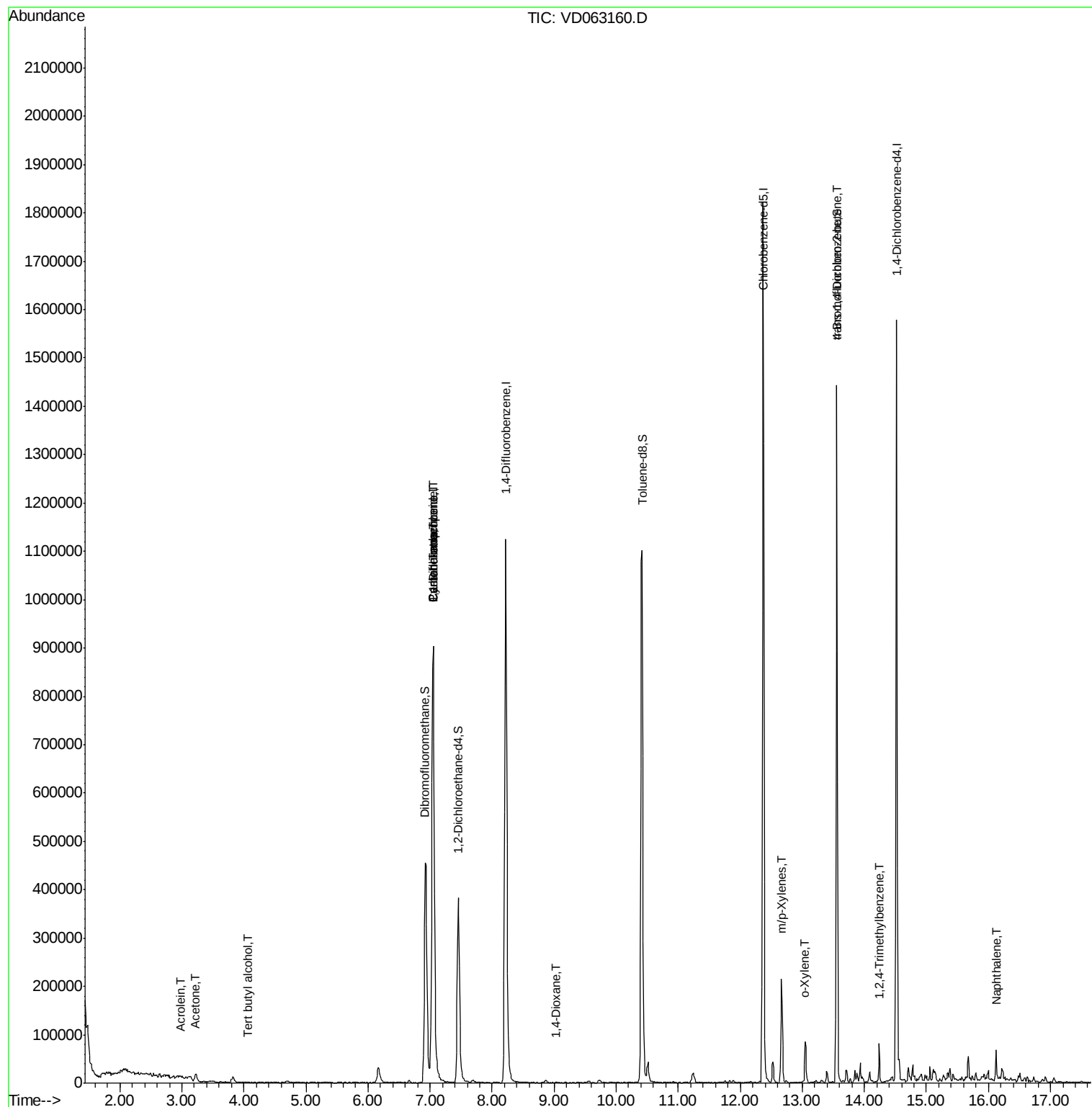
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	470	Below Cal	#	43
3) Chloromethane	1.75	50	424	Below Cal	#	1
5) Bromomethane	2.16	94	2144	Below Cal	#	13
11) Tert butyl alcohol	4.08	59	974	1.546	ug/l #	77
13) Acrolein	2.99	56	291	1.530	ug/l #	8
16) Acetone	3.22	43	32763	12.422	ug/l #	89
18) Methyl Acetate	3.62	43	1014	Below Cal	#	63
31) Cyclohexane	7.05	56	19997	1.924	ug/l #	5
36) 1,1-Dichloropropene	7.04	75	67861	5.084	ug/l #	46
38) Carbon Tetrachloride	7.05	117	87503	4.315	ug/l #	14
49) 1,4-Dioxane	9.04	88	246	5.305	ug/l #	1
68) m/p-Xylenes	12.66	106	55483	3.998	ug/l	77
69) o-Xylene	13.06	106	18714	1.422	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.56	75	175953	113.347	ug/l #	1
84) 1,2,4-Trimethylbenzene	14.24	105	32131	1.250	ug/l	97
95) Naphthalene	16.13	128	38755	2.642	ug/l	96

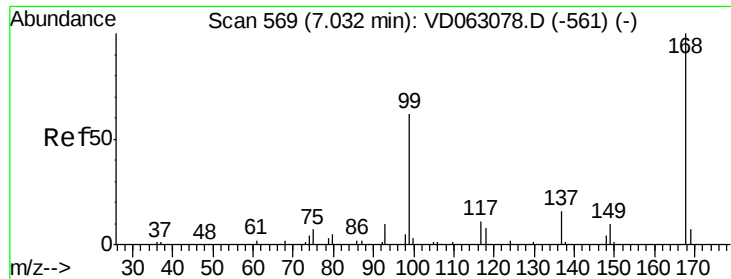
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071919\
Data File : VD063160.D
Acq On : 19 Jul 2019 18:10
Operator : VA/AP
Sample : K3911-01
Misc : 4.99g/5ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Jul 20 05:02:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD063160.D

Acq: 19 Jul 2019 18:10

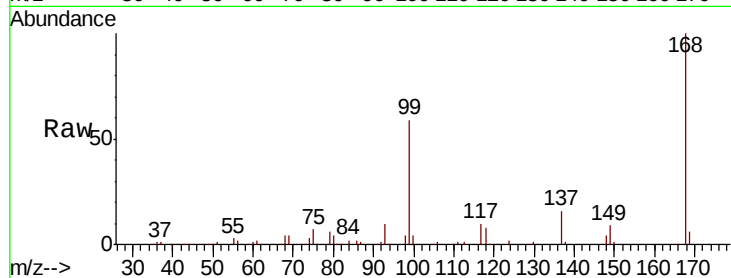
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 876600

Ion Ratio Lower Upper

168 100

99 59.4 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

300000

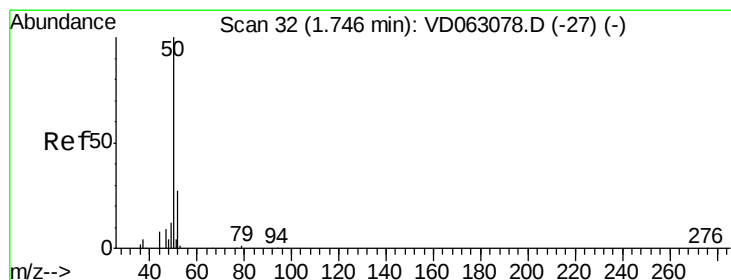
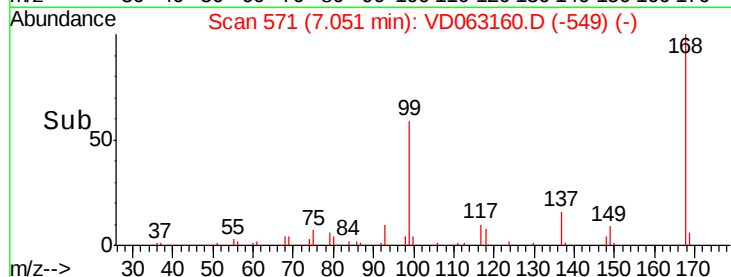
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063160.D

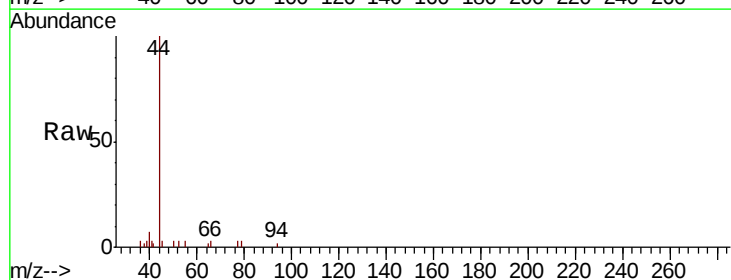
Acq: 19 Jul 2019 18:10

Tgt Ion: 50 Resp: 424

Ion Ratio Lower Upper

50 100

52 111.9 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

600

500

400

300

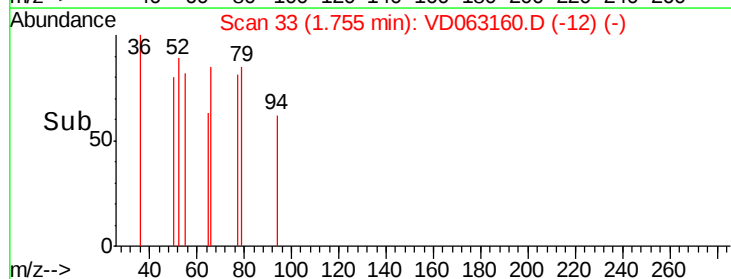
200

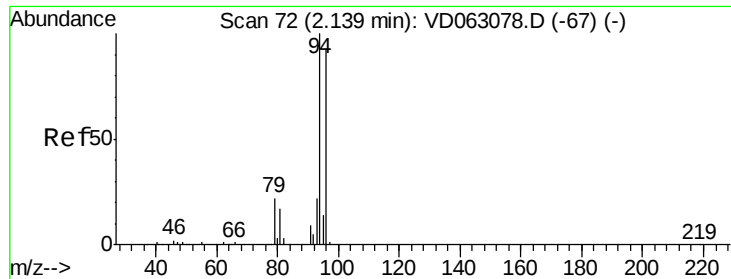
100

0

Time-->

1.72 1.74 1.76





#5

Bromomethane

Concen: Below Cal

RT: 2.16 min Scan# 74

Delta R.T. 0.02 min

Lab File: VD063160.D

Acq: 19 Jul 2019 18:10

Instrument :

MSVOA_D

ClientSampleId :

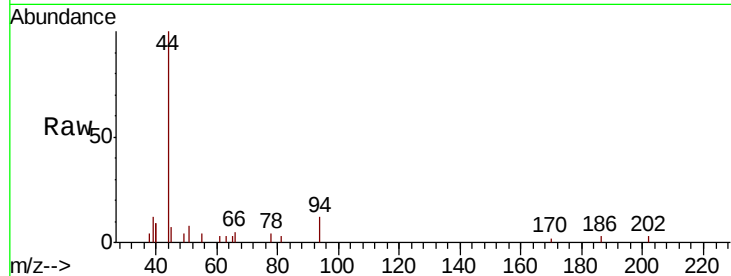
Tot Ion: 94 Resp: 2144

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

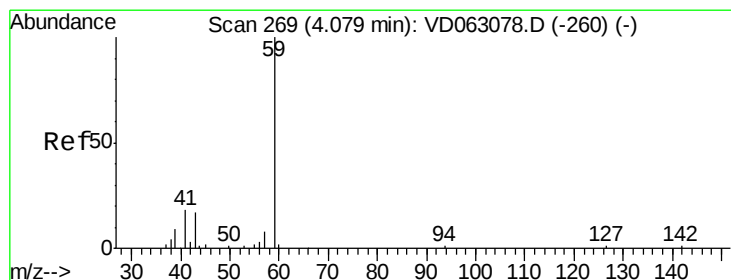
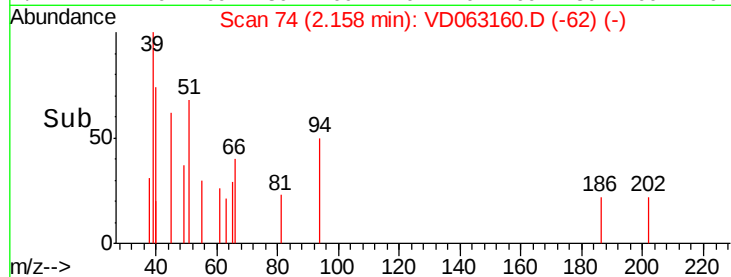
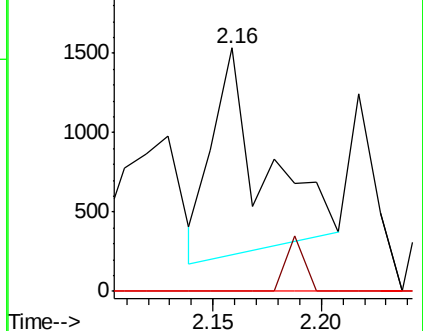
93 0.0 17.8 26.6#



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



#11

Tert butyl alcohol

Concen: 1.546 ug/l

RT: 4.08 min Scan# 269

Delta R.T. -0.00 min

Lab File: VD063160.D

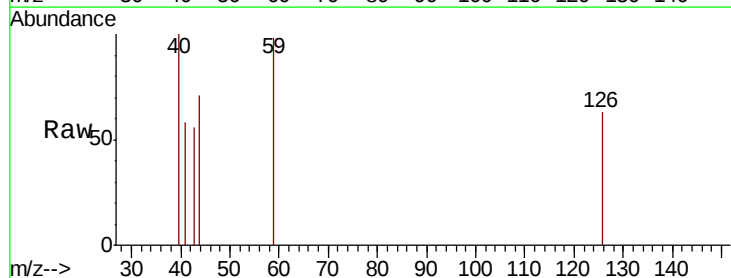
Acq: 19 Jul 2019 18:10

Tgt Ion: 59 Resp: 974

Ion Ratio Lower Upper

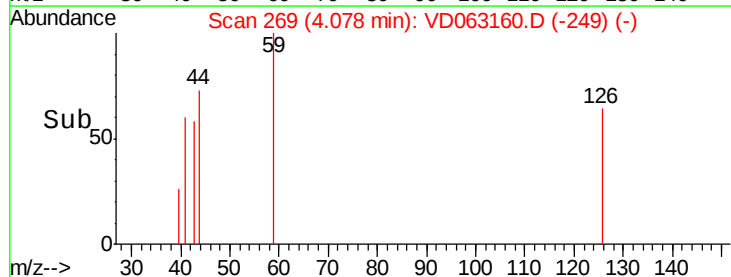
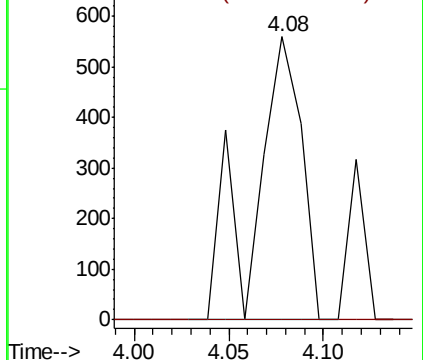
59 100

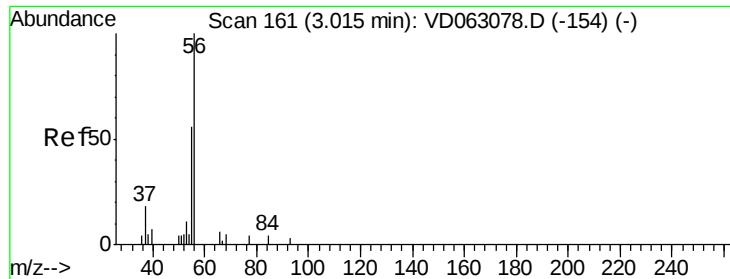
57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.530 ug/l

RT: 2.99 min Scan# 158

Delta R.T. -0.03 min

Lab File: VD063160.D

Acq: 19 Jul 2019 18:10

Instrument :

MSVOA_D

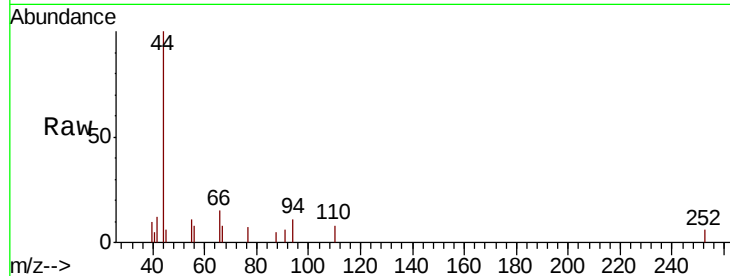
ClientSampleId :

Tot Ion: 56 Resp: 291

Ion Ratio Lower Upper

56 100

55 139.1 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

800

600

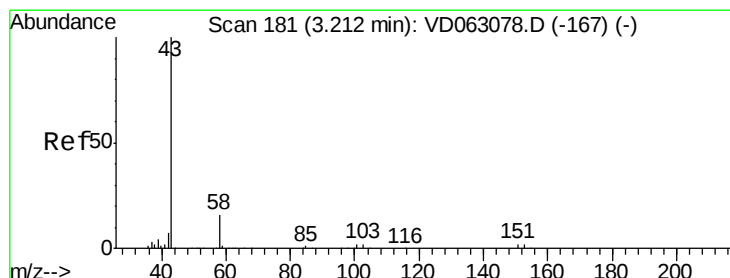
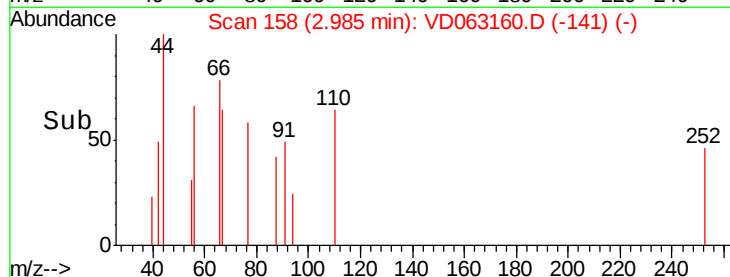
400

200

0

2.96 2.98 3.00

Time-->



#16

Acetone

Concen: 12.422 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD063160.D

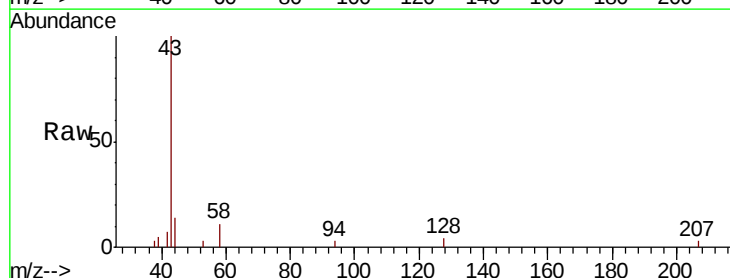
Acq: 19 Jul 2019 18:10

Tgt Ion: 43 Resp: 32763

Ion Ratio Lower Upper

43 100

58 11.5 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

15000

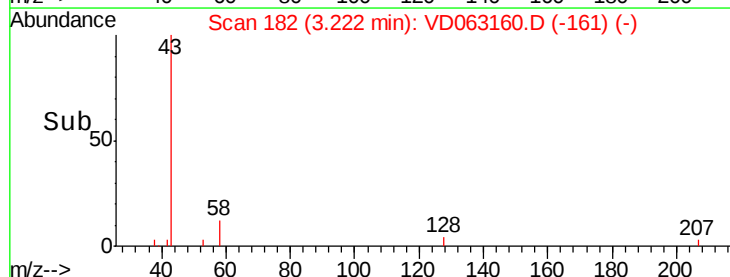
10000

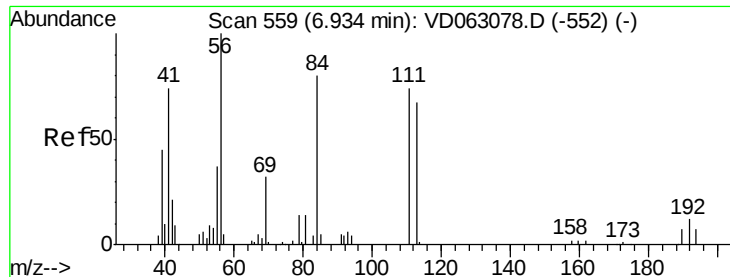
5000

0

3.10 3.15 3.20 3.25 3.30

Time-->

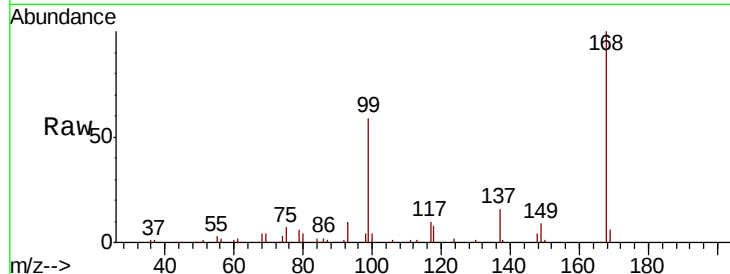




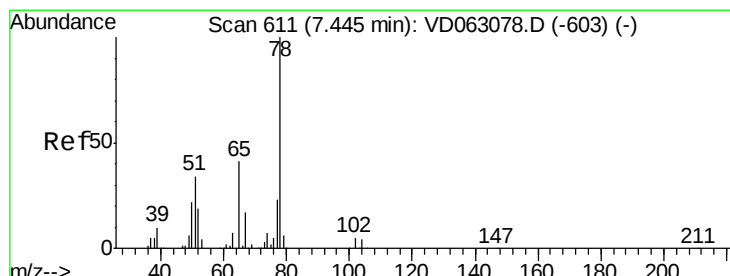
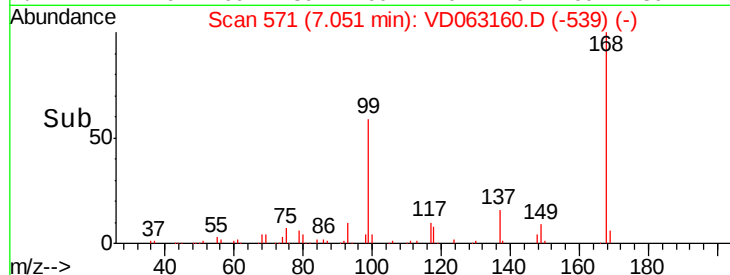
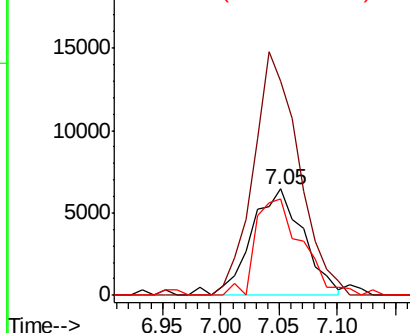
#31
Cvclohexane
Concen: 1.924 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.12 min
Lab File: VD063160.D
Acq: 19 Jul 2019 18:10

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 19997
Ion Ratio Lower Upper
56 100
69 201.6 25.3 37.9#
84 90.6 64.2 96.4

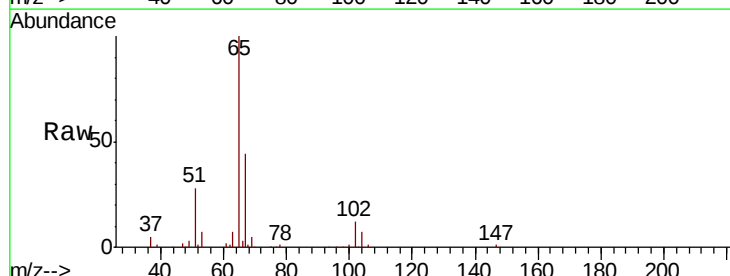


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

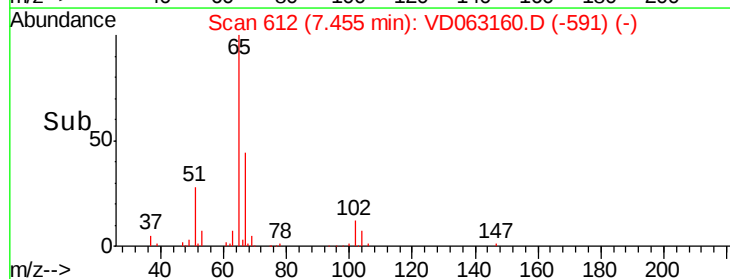
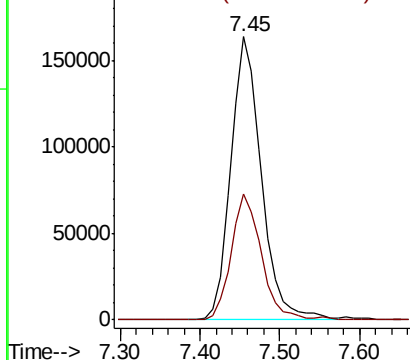


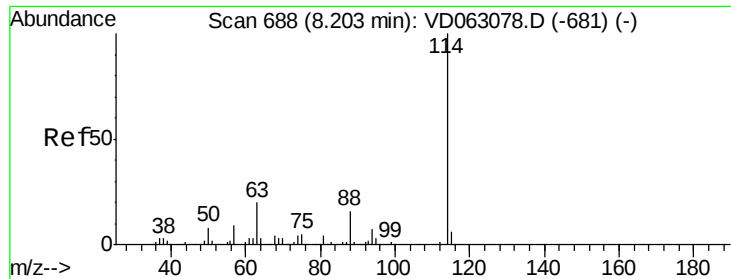
#33
1,2-Dichloroethane-d4
Concen: 40.081 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.01 min
Lab File: VD063160.D
Acq: 19 Jul 2019 18:10

Tgt Ion: 65 Resp: 437670
Ion Ratio Lower Upper
65 100
67 44.3 0.0 86.0



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: 8.22 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD063160.D

Acq: 19 Jul 2019 18:10

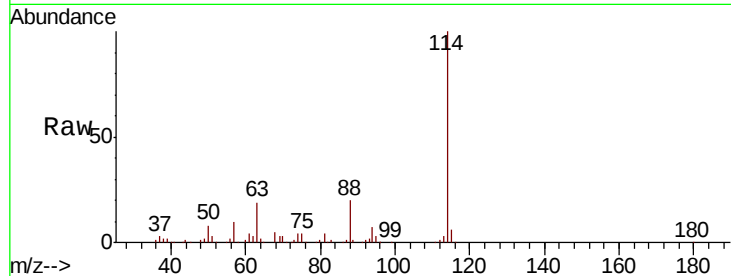
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:114 Resp: 1186711

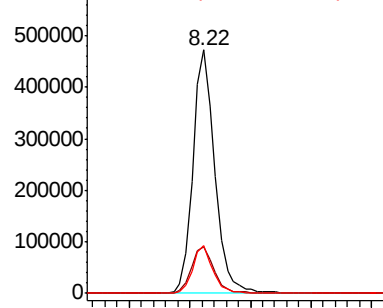
Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	40.6
88	19.5	0.0	32.6



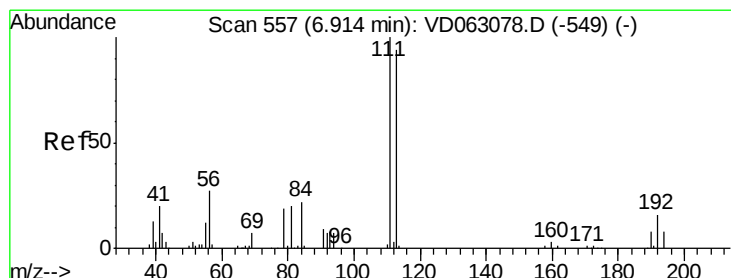
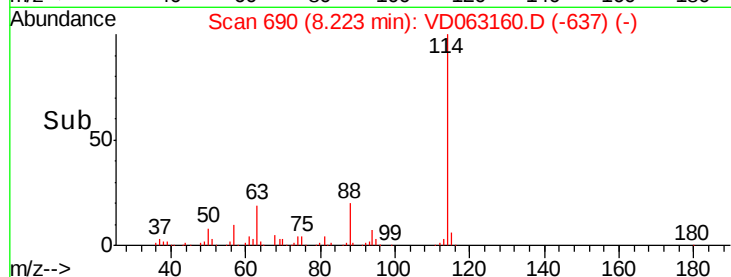
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



Time-->



#35

Dibromofluoromethane

Concen: 34.382 ug/l

RT: 6.92 min Scan# 558

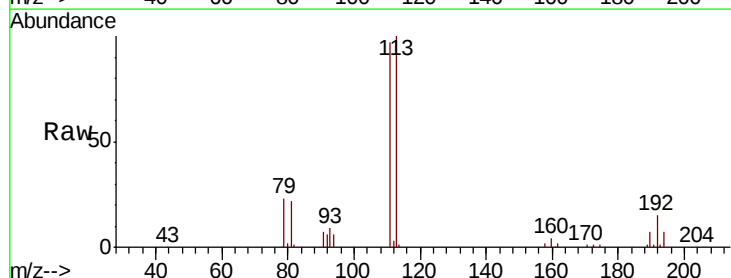
Delta R.T. 0.01 min

Lab File: VD063160.D

Acq: 19 Jul 2019 18:10

Tgt Ion:113 Resp: 406390

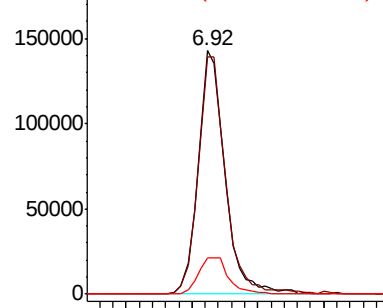
Ion	Ratio	Lower	Upper
113	100		
111	97.4	84.8	127.2
192	14.6	13.4	20.0



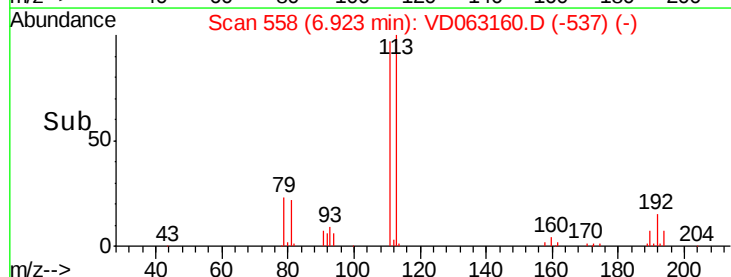
Abundance Ion 112.90 (112.60 to 113.60): V

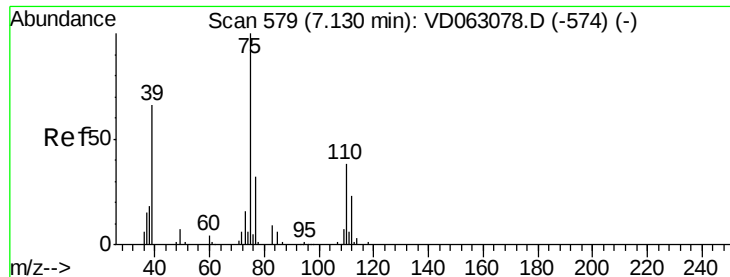
Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



Time-->





#36

1,1-Dichloropropene

Concen: 5.084 ug/l

RT: 7.04 min Scan# 570

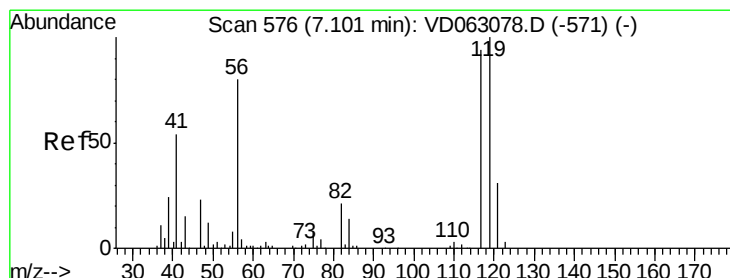
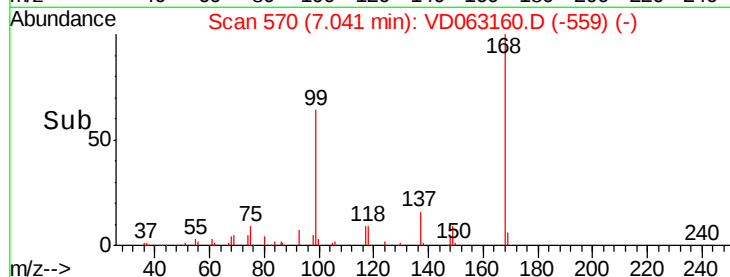
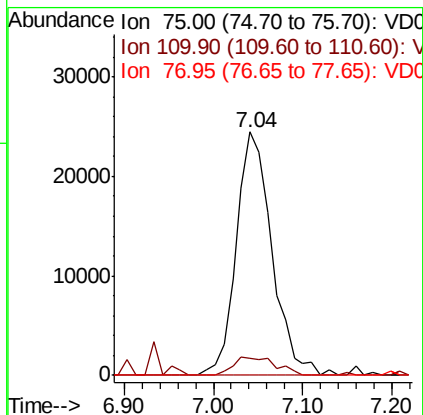
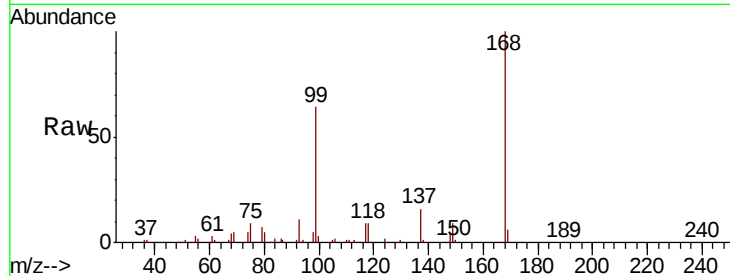
Delta R.T. -0.09 min

Lab File: VD063160.D

Acq: 19 Jul 2019 18:10

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	75	Resp:	67861
Ion	Ratio	Lower	Upper
75	100		
110	6.8	18.9	56.5#
77	0.0	25.2	37.8#



#38

Carbon Tetrachloride

Concen: 4.315 ug/l

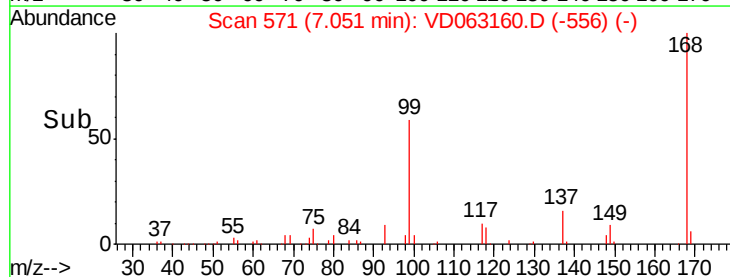
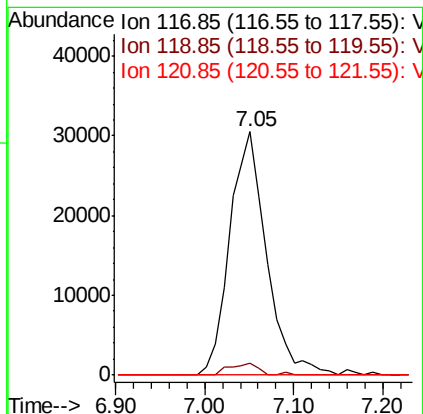
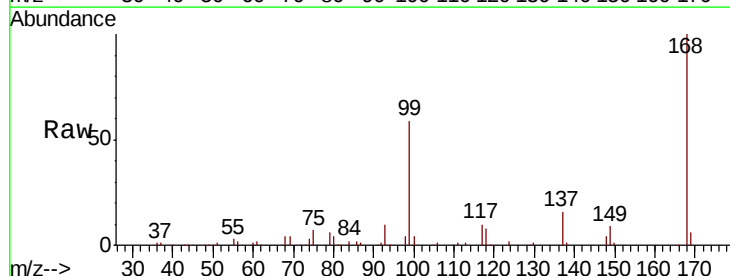
RT: 7.05 min Scan# 571

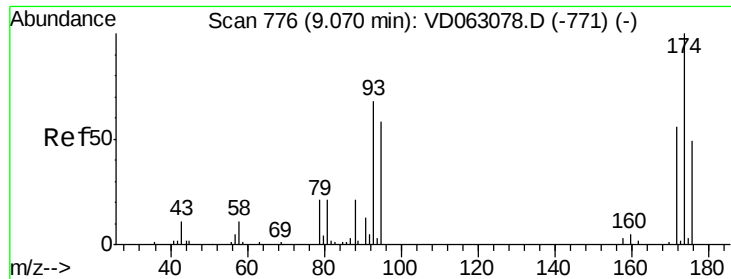
Delta R.T. -0.05 min

Lab File: VD063160.D

Acq: 19 Jul 2019 18:10

Tgt Ion:	117	Resp:	87503
Ion	Ratio	Lower	Upper
117	100		
119	4.9	80.0	120.0#
121	0.0	25.0	37.4#

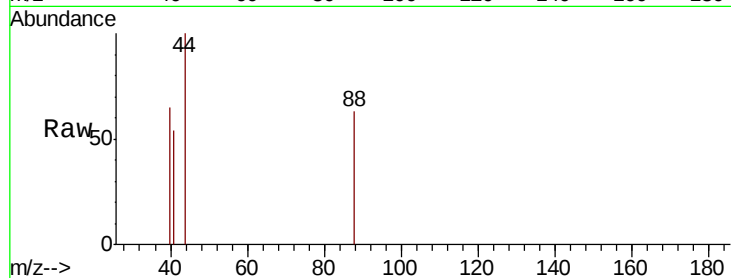




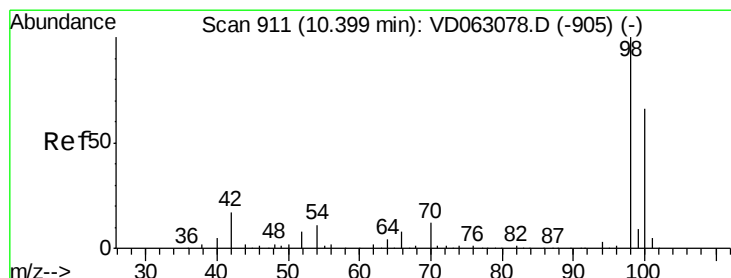
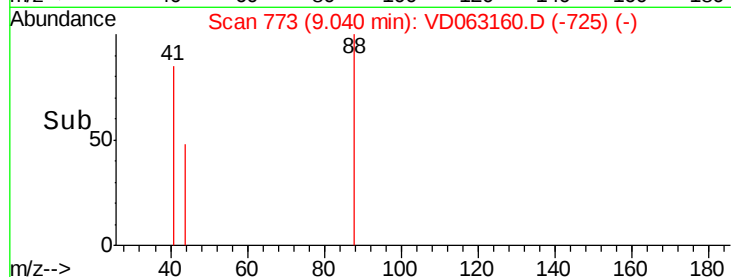
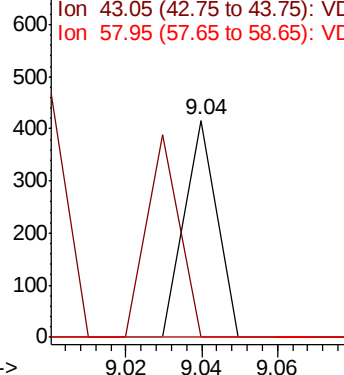
#49
1,4-Dioxane
Concen: 5.305 ug/l
RT: 9.04 min Scan# 773
Delta R.T. -0.03 min
Lab File: VD063160.D
Acq: 19 Jul 2019 18:10

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 88 Resp: 246
Ion Ratio Lower Upper
88 100
43 157.6 40.2 60.4#
58 0.0 41.6 62.4#

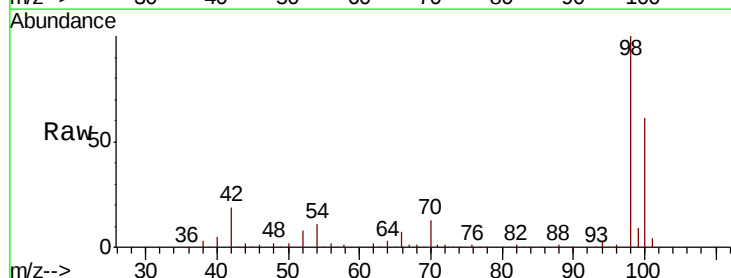


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

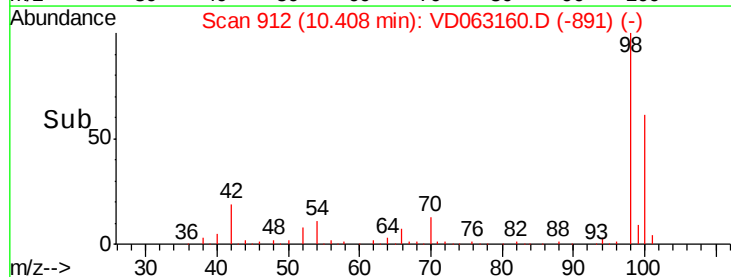
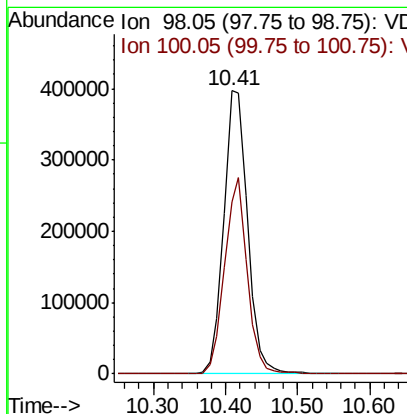


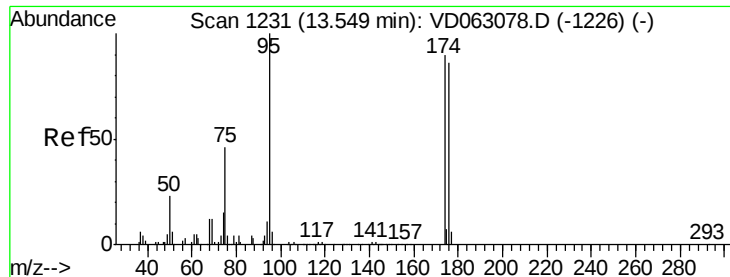
#50
Toluene-d8
Concen: 35.913 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD063160.D
Acq: 19 Jul 2019 18:10

Tgt Ion: 98 Resp: 911809
Ion Ratio Lower Upper
98 100
100 60.8 53.5 80.3



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

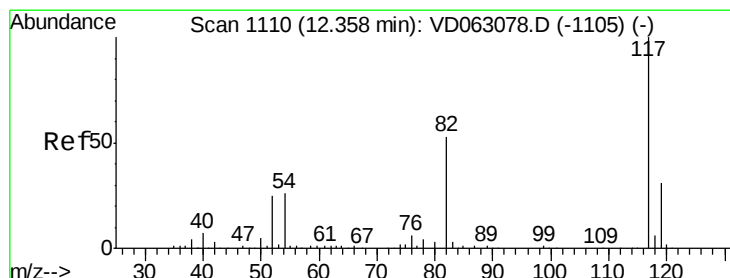
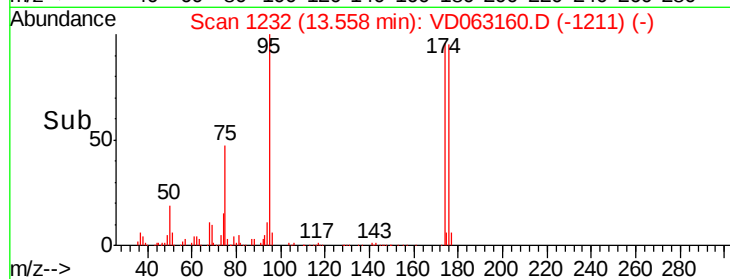
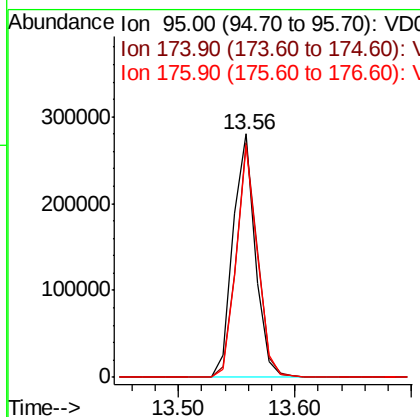
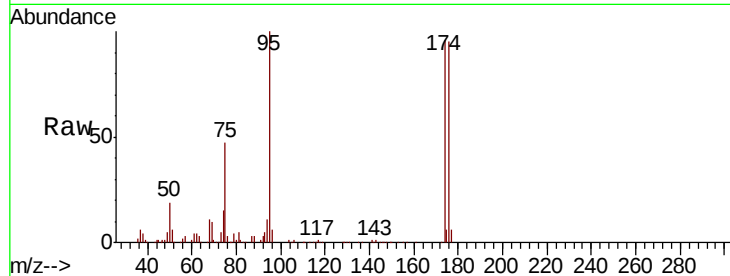




#62
4-Bromofluorobenzene
Concen: 31.596 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD063160.D
Acq: 19 Jul 2019 18:10

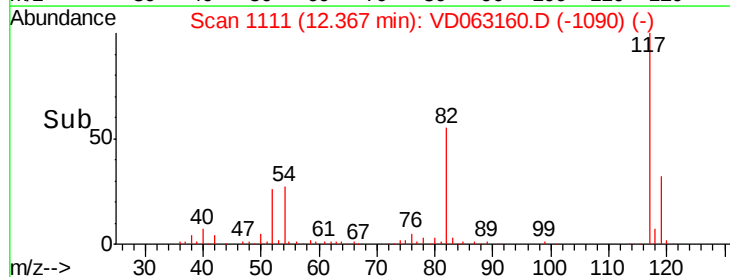
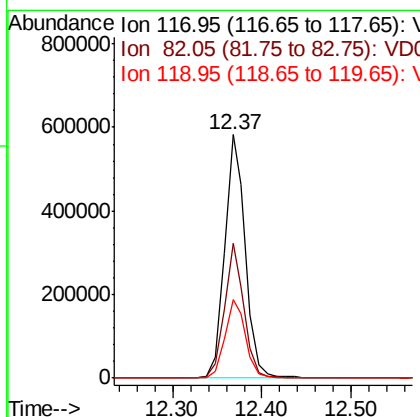
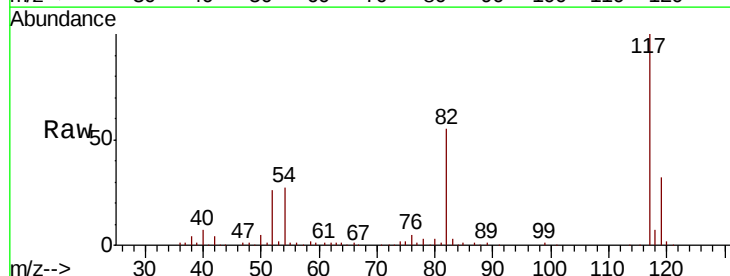
Instrument :
MSVOA_D
ClientSampleId :

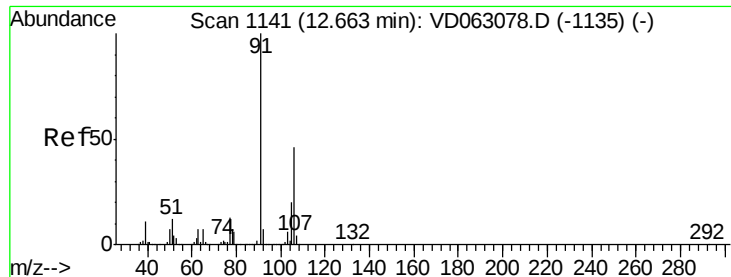
Tot Ion	Ratio	Lower	Upper
95	100		
174	96.3	0.0	180.6
176	95.2	0.0	172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD063160.D
Acq: 19 Jul 2019 18:10

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.2	42.3	63.5
119	32.1	25.2	37.8





#68

m/p-Xylenes

Concen: 3.998 ug/l

RT: 12.66 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VD063160.D

Acq: 19 Jul 2019 18:10

Instrument :

MSVOA_D

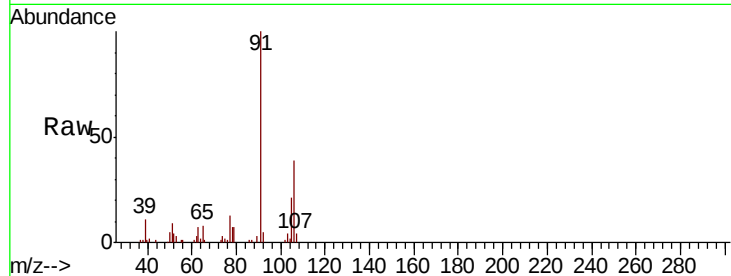
ClientSampleId :

Tot Ion:106 Resp: 55483

Ion Ratio Lower Upper

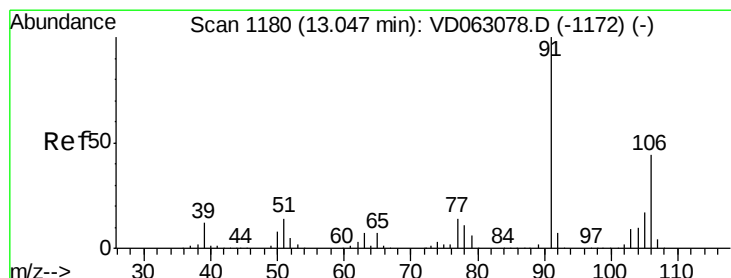
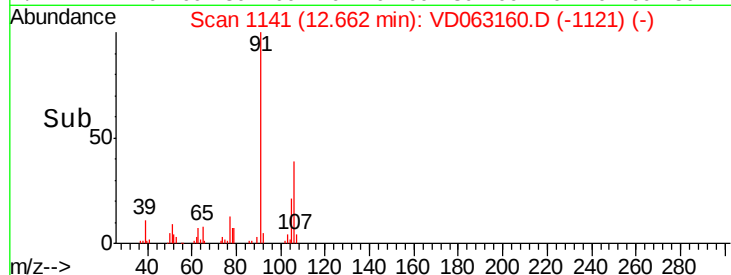
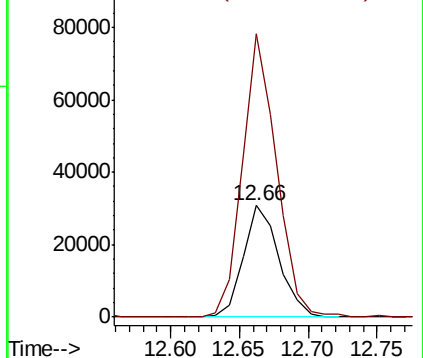
106 100

91 253.5 173.0 259.6



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 1.422 ug/l

RT: 13.06 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD063160.D

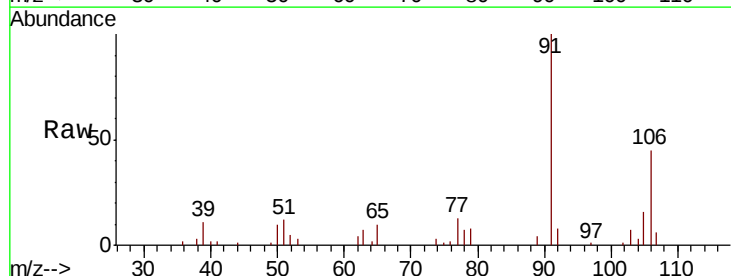
Acq: 19 Jul 2019 18:10

Tgt Ion:106 Resp: 18714

Ion Ratio Lower Upper

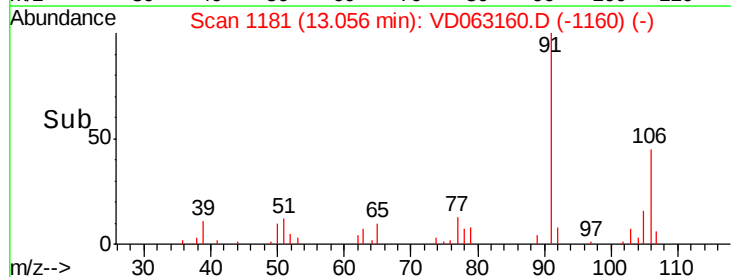
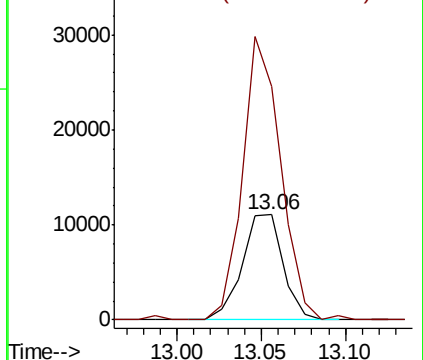
106 100

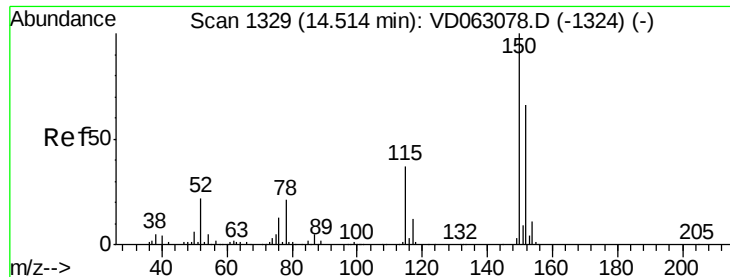
91 221.6 114.9 344.7



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC



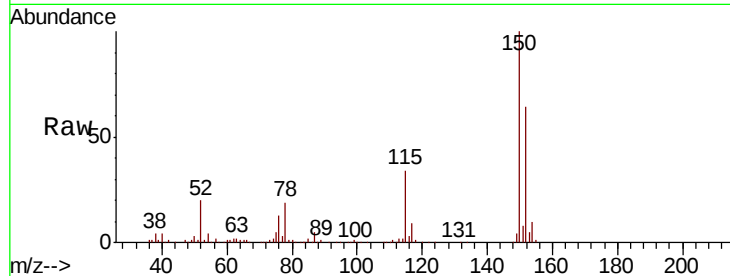


#72

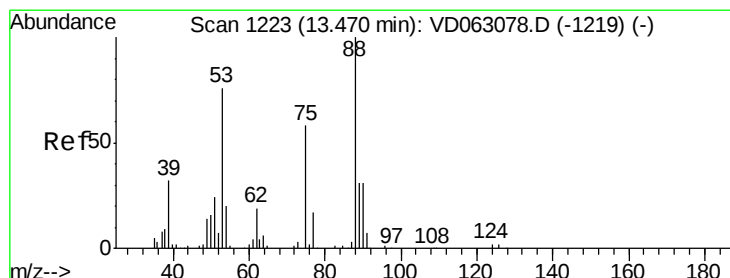
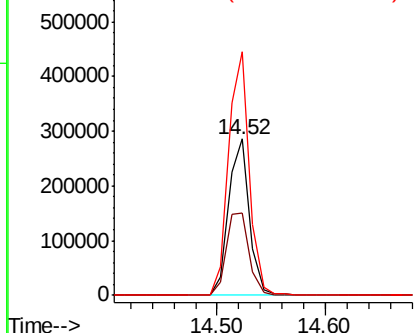
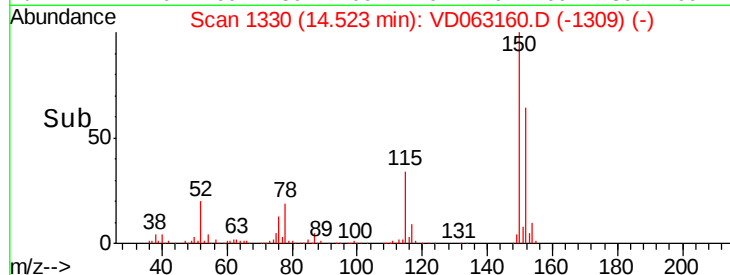
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD063160.D
Acq: 19 Jul 2019 18:10

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 383209
Ion Ratio Lower Upper
152 100
115 53.0 28.9 86.8
150 155.7 0.0 313.8



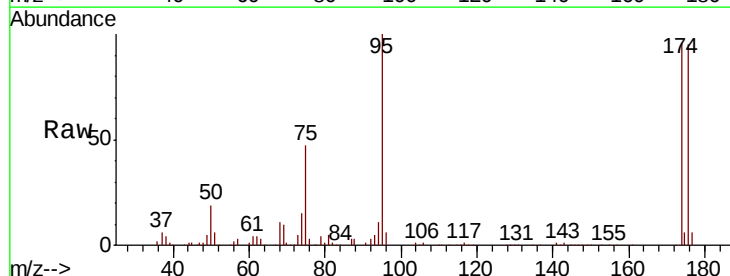
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



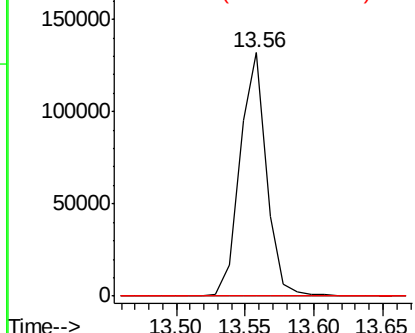
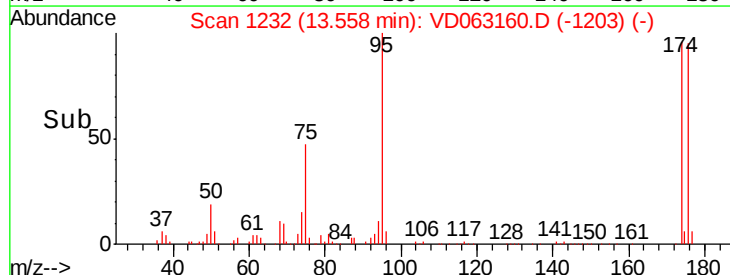
#81

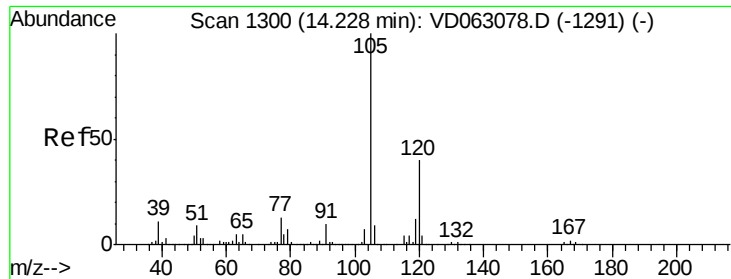
trans-1,4-Dichloro-2-butene
Concen: 113.347 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.09 min
Lab File: VD063160.D
Acq: 19 Jul 2019 18:10

Tgt Ion: 75 Resp: 175953
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

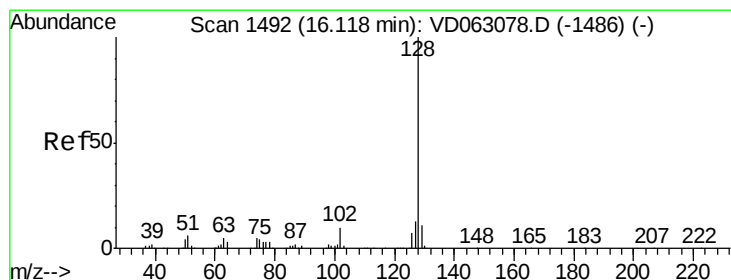
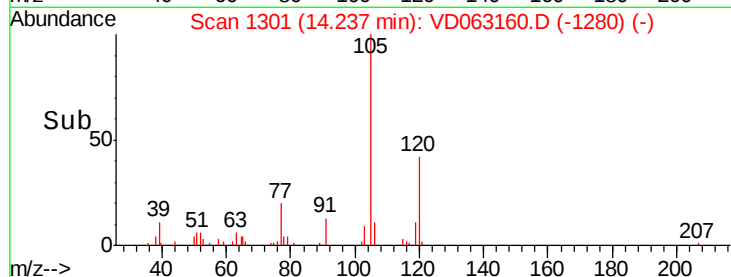
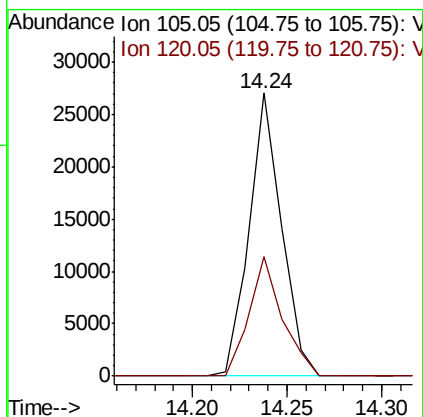
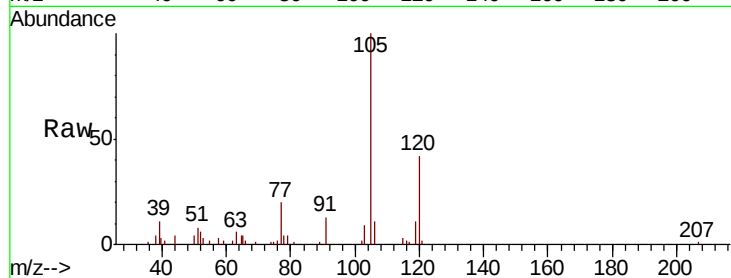




#84
 1,2,4-Trimethylbenzene
 Concen: 1.250 ug/l
 RT: 14.24 min Scan# 1301
 Delta R.T. 0.01 min
 Lab File: VD063160.D
 Acq: 19 Jul 2019 18:10

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:105 Resp: 32131
 Ion Ratio Lower Upper
 105 100
 120 42.3 20.2 60.6



#95
 Naphthalene
 Concen: 2.642 ug/l
 RT: 16.13 min Scan# 1493
 Delta R.T. 0.01 min
 Lab File: VD063160.D
 Acq: 19 Jul 2019 18:10

Tgt Ion:128 Resp: 38755
 Ion Ratio Lower Upper
 128 100
 127 12.0 10.7 16.1
 129 9.5 8.7 13.1

