

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071519\
 Data File : VD063089.D
 Acq On : 15 Jul 2019 19:10
 Operator : VA/AP
 Sample : K3768-09
 Misc : 5.39g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-2

Quant Time: Jul 16 08:22:48 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	7.04	168	748136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1032789	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	803692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	428467	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	487474	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	
35) Dibromofluoromethane	6.91	113	538010	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
50) Toluene-d8	10.40	98	1020706	46.19	ug/l	0.00
Spiked Amount			Recovery	=	92.38%	
62) 4-Bromofluorobenzene	13.55	95	451103	44.13	ug/l	0.00
Spiked Amount			Recovery	=	88.26%	

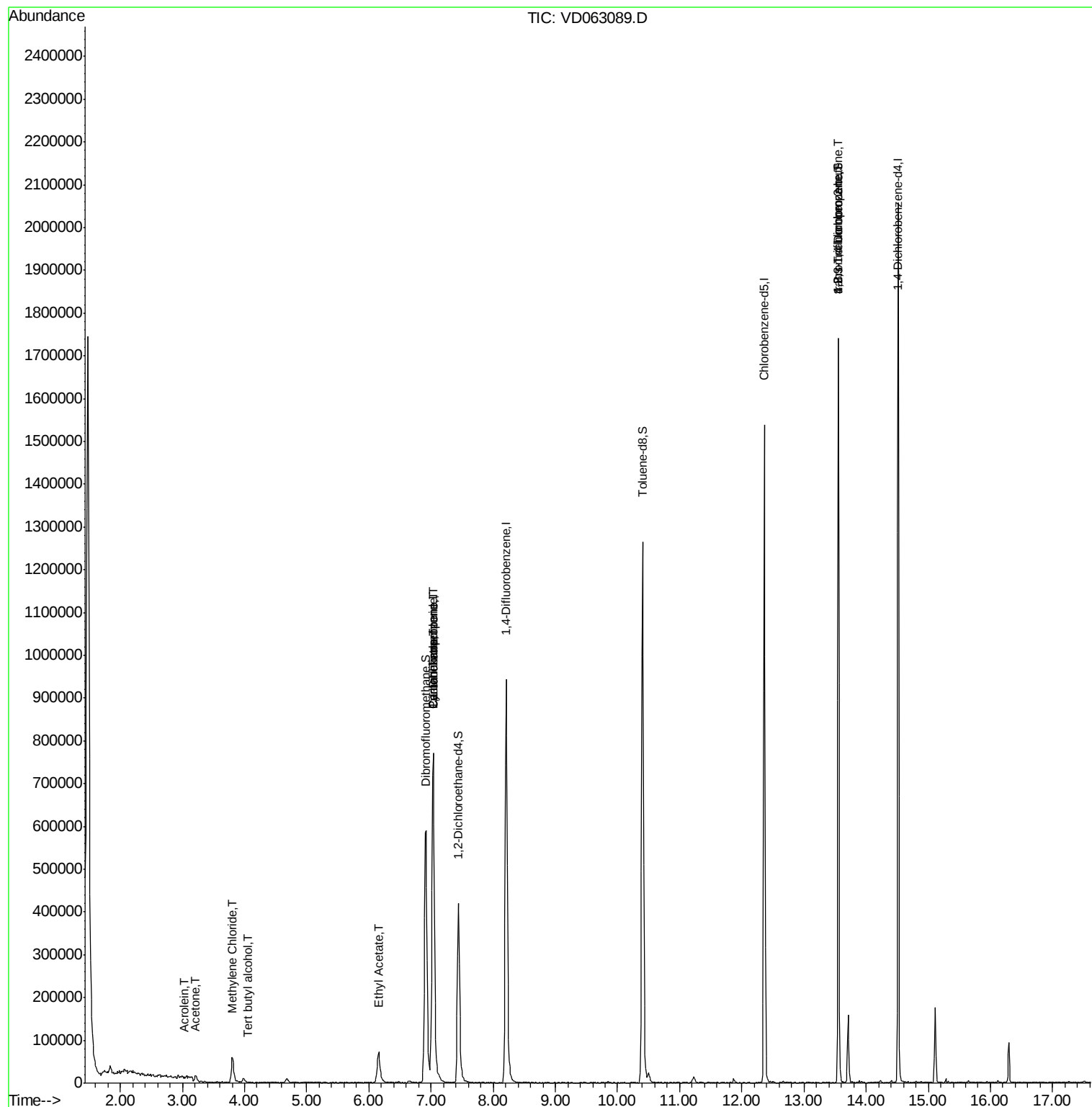
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	643	Below Cal	#	43
3) Chloromethane	1.73	50	185	Below Cal	#	48
5) Bromomethane	2.13	94	2171	Below Cal	#	13
11) Tert butyl alcohol	4.06	59	1179	2.192	ug/l #	77
13) Acrolein	3.03	56	205	1.263	ug/l #	17
16) Acetone	3.22	43	28887	12.833	ug/l	94
18) Methyl Acetate	3.62	43	1146	Below Cal	#	63
20) Methylene Chloride	3.81	84	36060	4.240	ug/l	88
31) Cyclohexane	7.04	56	16760	1.889	ug/l #	5
36) 1,1-Dichloropropene	7.04	75	56844	4.894	ug/l #	44
37) Ethyl Acetate	6.15	43	6441	1.296	ug/l #	23
38) Carbon Tetrachloride	7.04	117	75970	4.304	ug/l #	13
76) 1,2,3-Trichloropropane	13.55	75	147648	22.401	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	212614	122.497	ug/l #	1

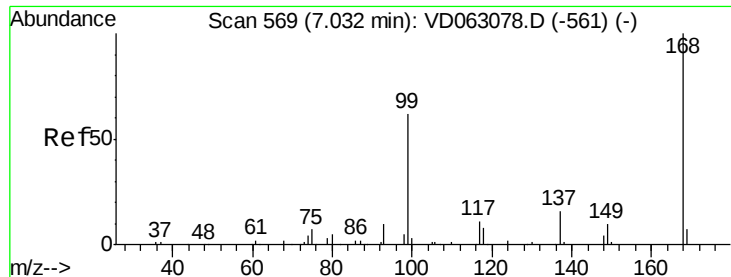
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063089.D

Acq: 15 Jul 2019 19:10

Instrument :

MSVOA_D

ClientSampleID :

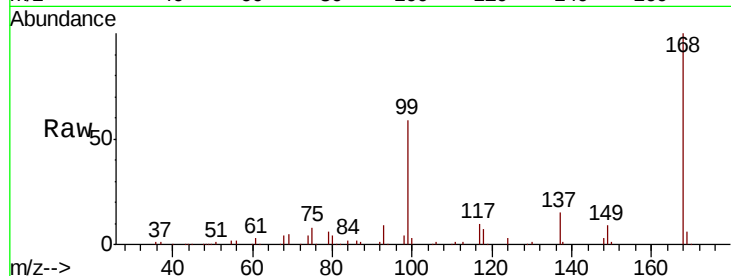
TP-2

Tot Ion:168 Resp: 748136

Ion Ratio Lower Upper

168 100

99 59.2 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

250000

200000

150000

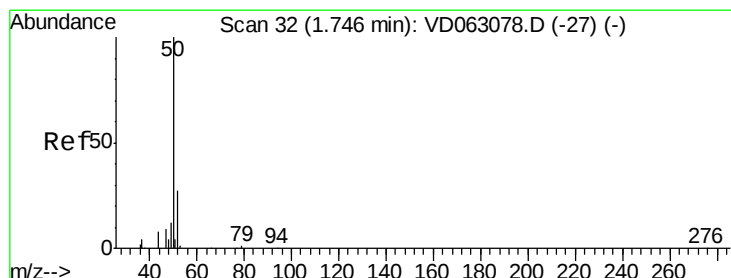
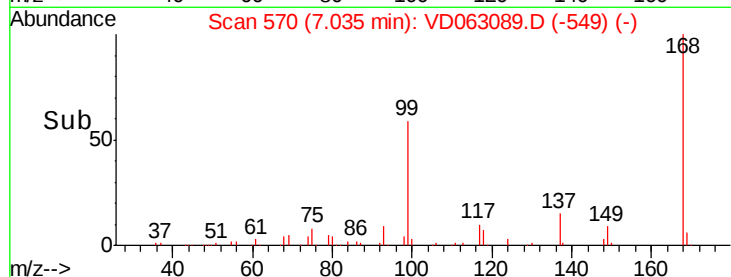
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.73 min Scan# 31

Delta R.T. -0.02 min

Lab File: VD063089.D

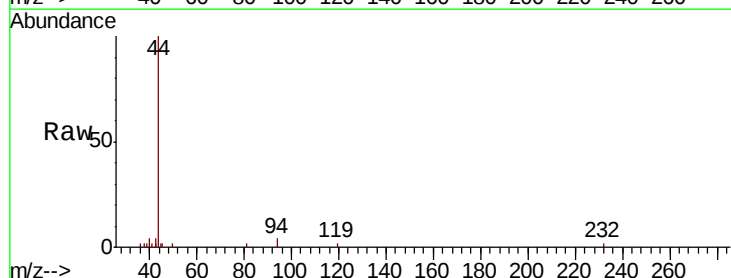
Acq: 15 Jul 2019 19:10

Tgt Ion: 50 Resp: 185

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

600

500

400

300

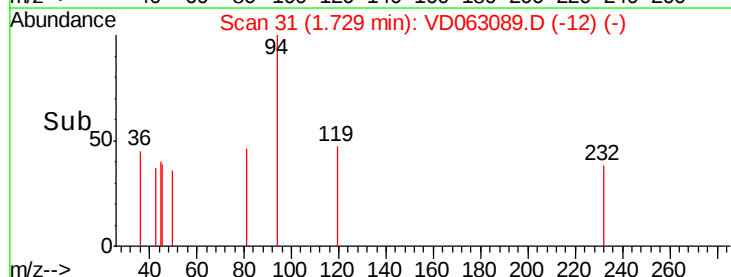
200

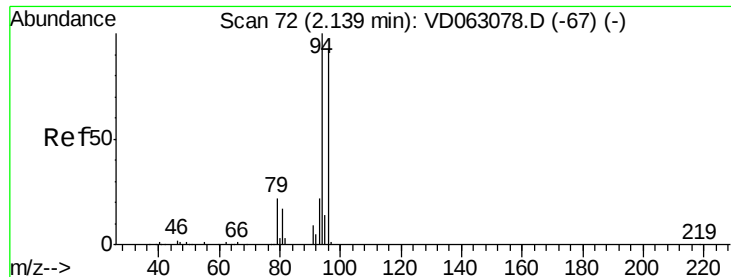
100

0

1.70 1.72 1.74 1.76

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063089.D

Acq: 15 Jul 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

TP-2

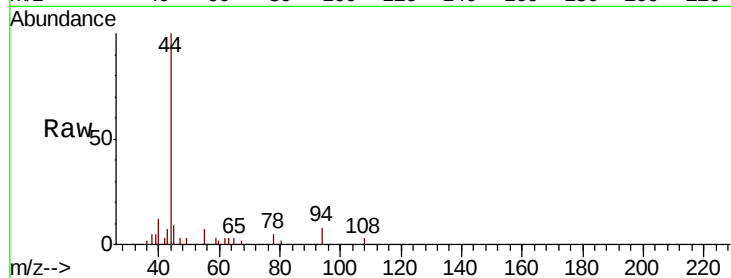
Tot Ion: 94 Resp: 2171

Ion Ratio Lower Upper

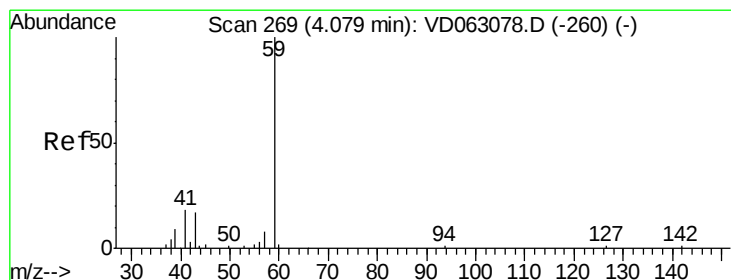
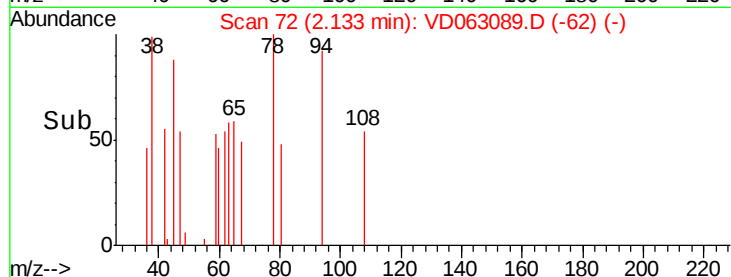
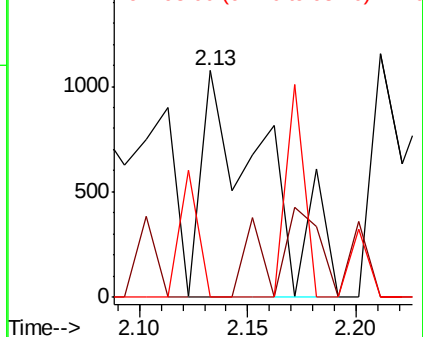
94 100

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: 2.192 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.02 min

Lab File: VD063089.D

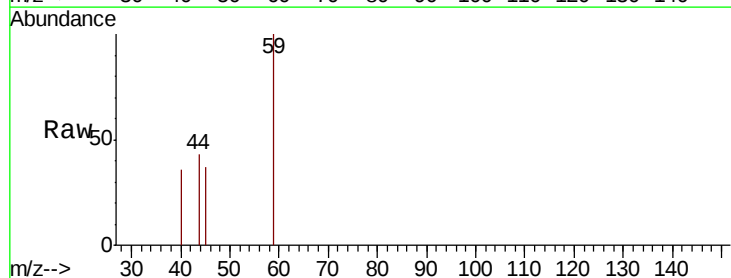
Acq: 15 Jul 2019 19:10

Tgt Ion: 59 Resp: 1179

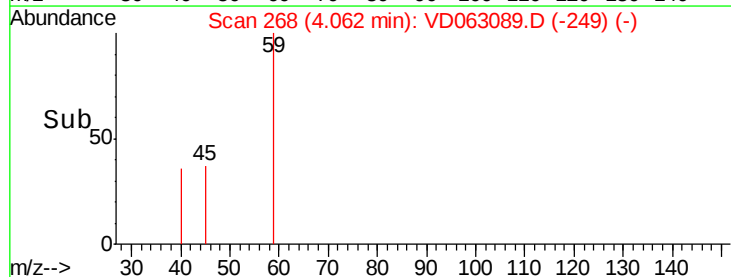
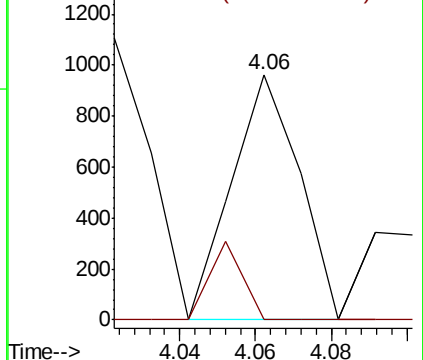
Ion Ratio Lower Upper

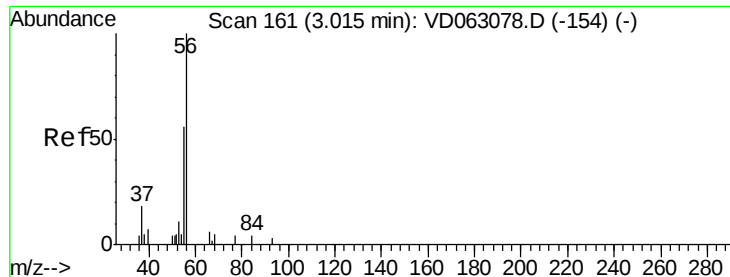
59 100

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: 1.263 ug/l

RT: 3.03 min Scan# 163

Delta R.T. 0.01 min

Lab File: VD063089.D

Acq: 15 Jul 2019 19:10

Instrument :

MSVOA_D

ClientSampled :

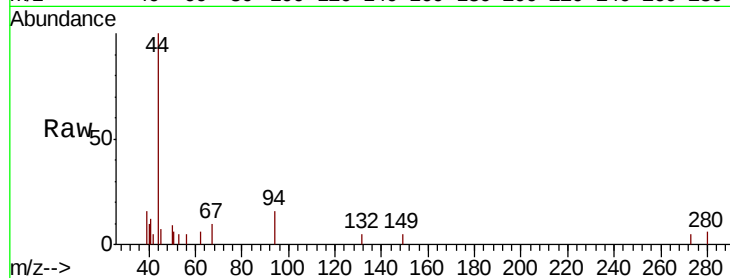
TP-2

Tot Ion: 56 Resp: 205

Ion Ratio Lower Upper

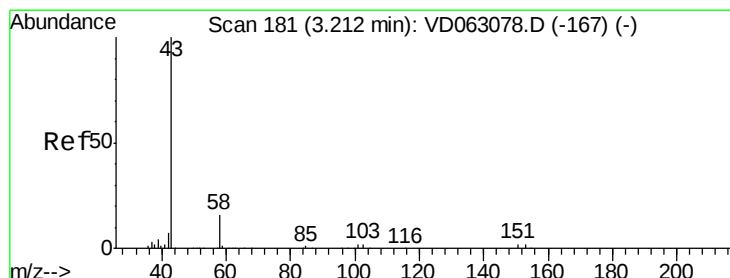
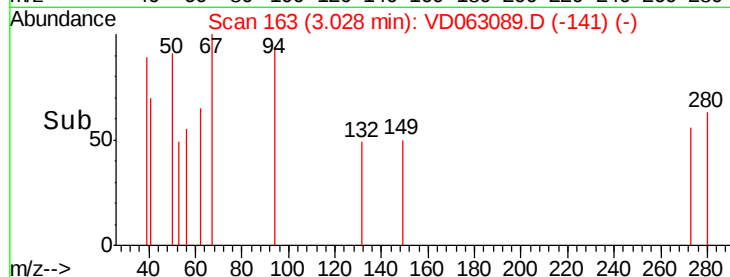
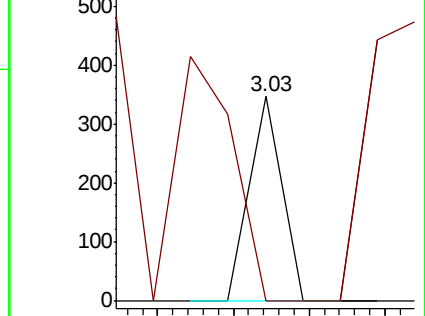
56 100

55 0.0 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 12.833 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063089.D

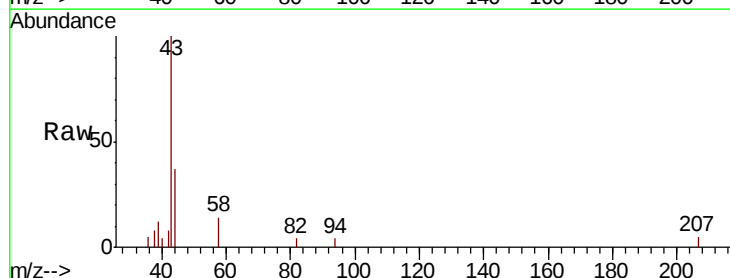
Acq: 15 Jul 2019 19:10

Tgt Ion: 43 Resp: 28887

Ion Ratio Lower Upper

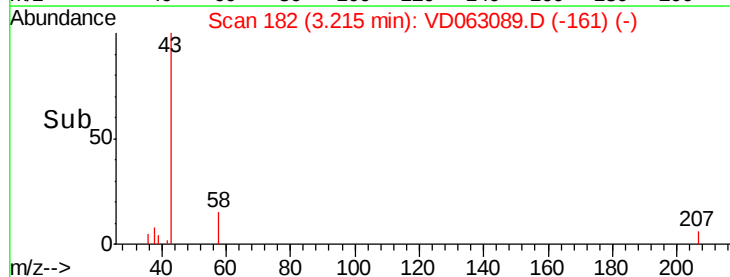
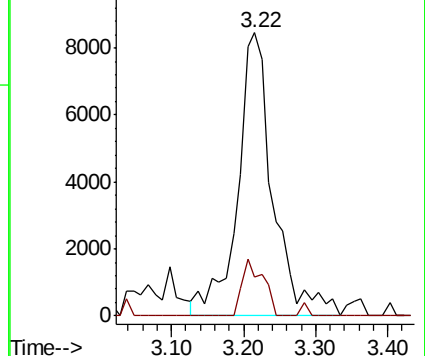
43 100

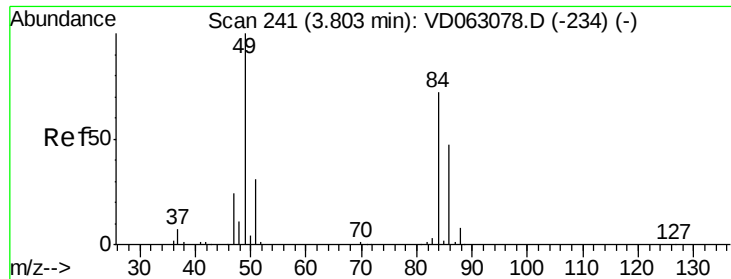
58 13.8 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

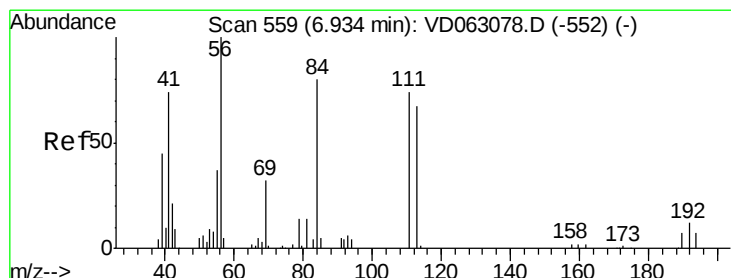
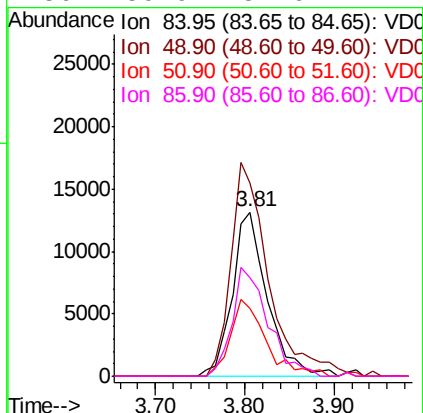
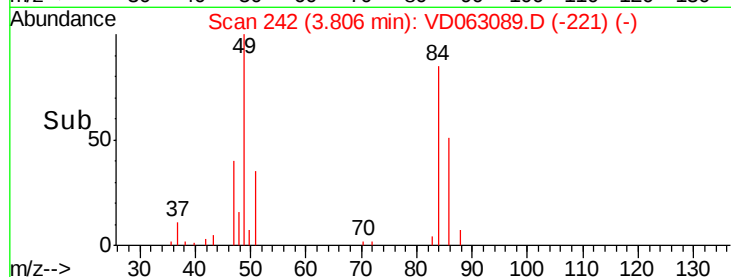
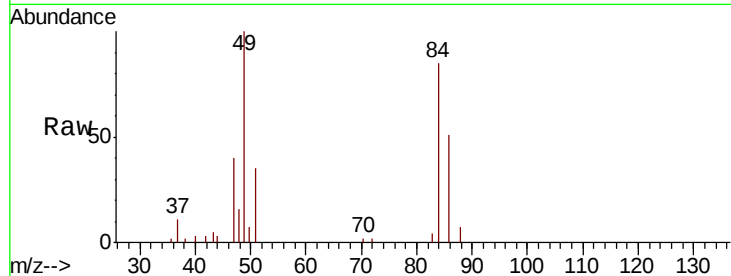




#20
Methvlene Chloride
Concen: 4.240 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD063089.D
Acq: 15 Jul 2019 19:10

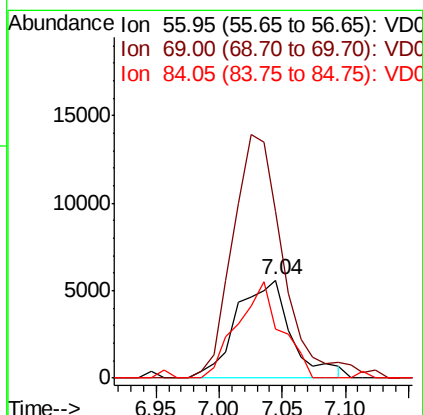
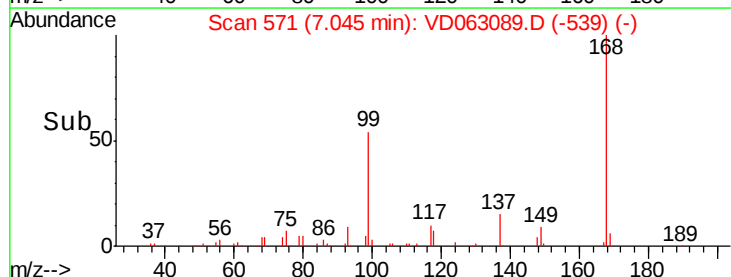
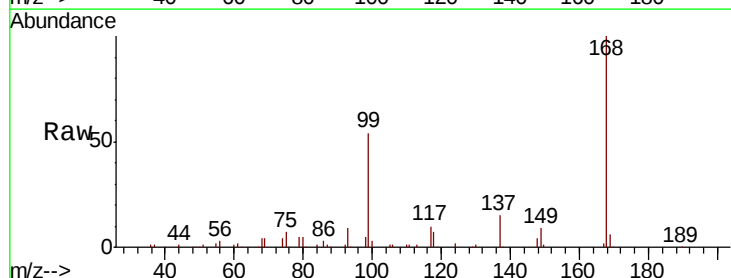
Instrument :
MSVOA_D
ClientSampleId :
TP-2

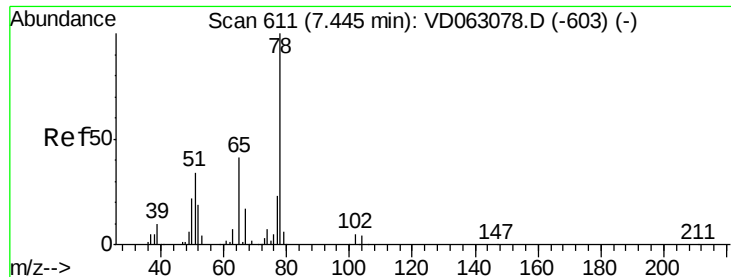
Tot Ion: 84 Resp: 36060
Ion Ratio Lower Upper
84 100
49 117.6 110.5 165.7
51 41.2 34.6 51.8
86 59.9 51.6 77.4



#31
Cyclohexane
Concen: 1.889 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.11 min
Lab File: VD063089.D
Acq: 15 Jul 2019 19:10

Tgt Ion: 56 Resp: 16760
Ion Ratio Lower Upper
56 100
69 170.1 25.3 37.9#
84 49.9 64.2 96.4#





#33

1,2-Dichloroethane-d4

Concen: 52.307 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD063089.D

Acq: 15 Jul 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

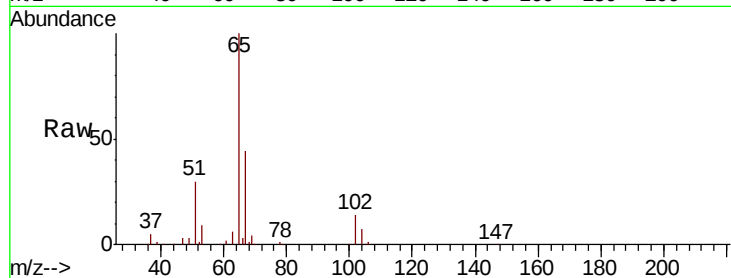
TP-2

Tot Ion: 65 Resp: 487474

Ion Ratio Lower Upper

65 100

67 43.9 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

200000

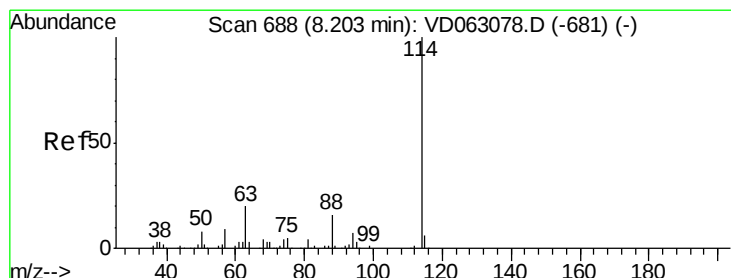
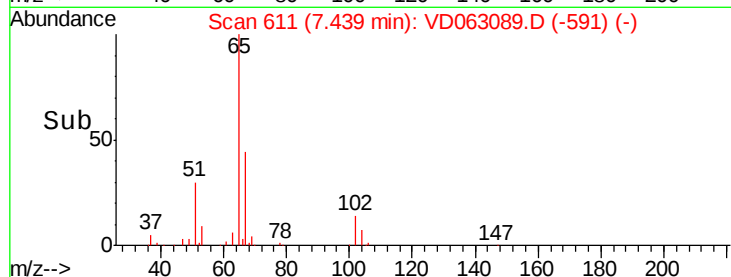
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063089.D

Acq: 15 Jul 2019 19:10

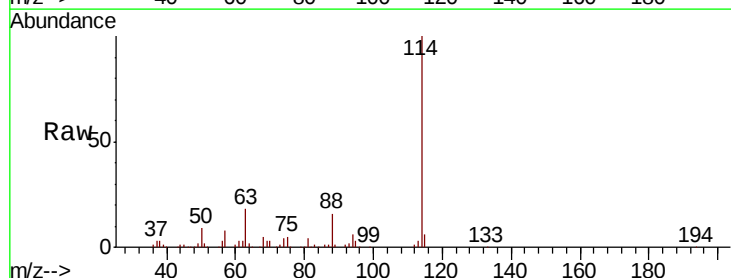
Tgt Ion: 114 Resp: 1032789

Ion Ratio Lower Upper

114 100

63 18.5 0.0 40.6

88 16.3 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

500000

400000

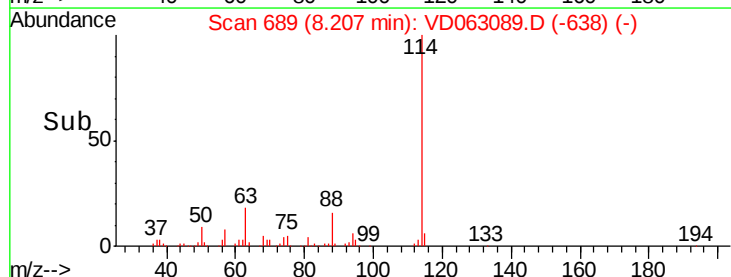
300000

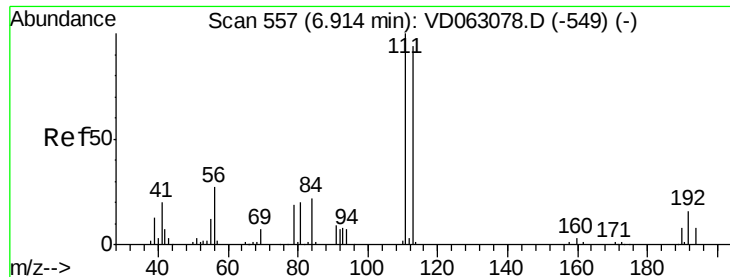
200000

100000

0

Time--> 8.00 8.20 8.40





#35

Dibromofluoromethane

Concen: 52.301 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.01 min

Lab File: VD063089.D

Acq: 15 Jul 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

TP-2

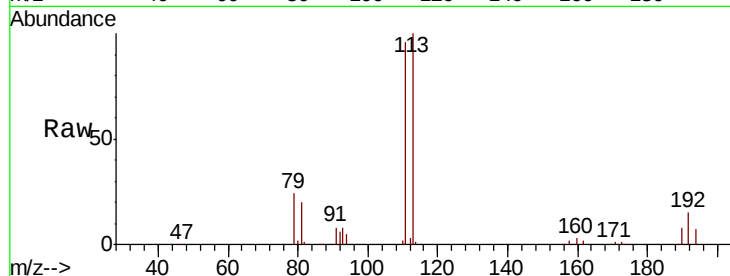
Tot Ion:113 Resp: 538010

Ion Ratio Lower Upper

113 100

111 95.5 84.8 127.2

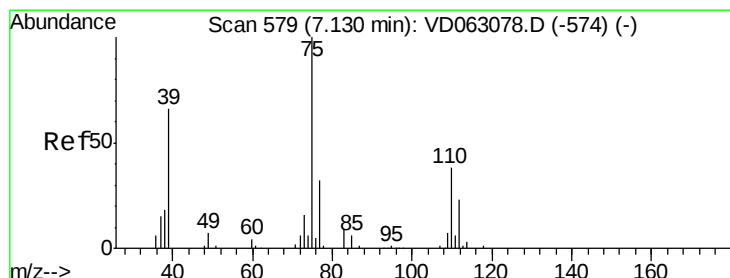
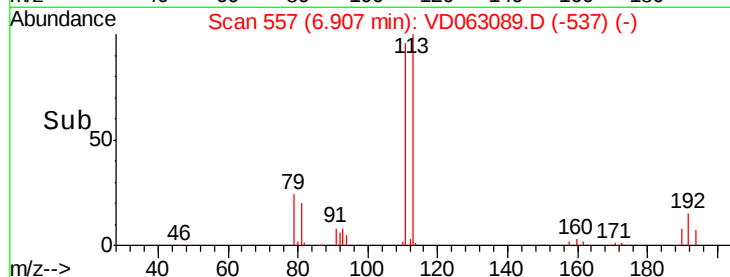
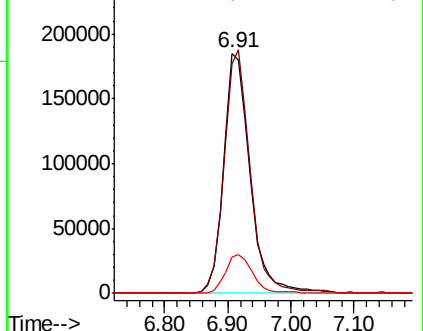
192 15.3 13.4 20.0



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



#36

1,1-Dichloropropene

Concen: 4.894 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD063089.D

Acq: 15 Jul 2019 19:10

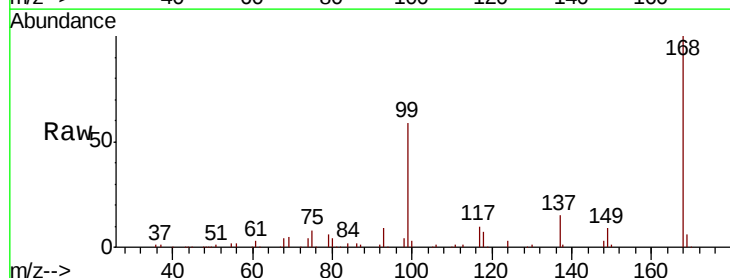
Tgt Ion: 75 Resp: 56844

Ion Ratio Lower Upper

75 100

110 4.7 18.9 56.5#

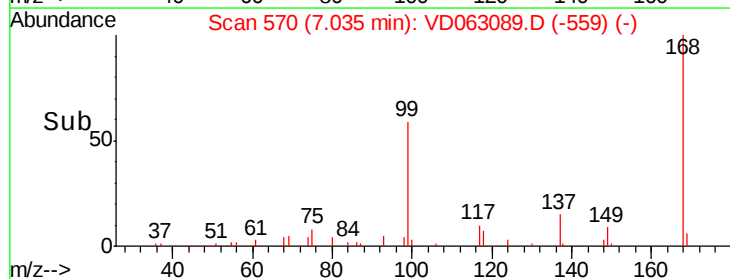
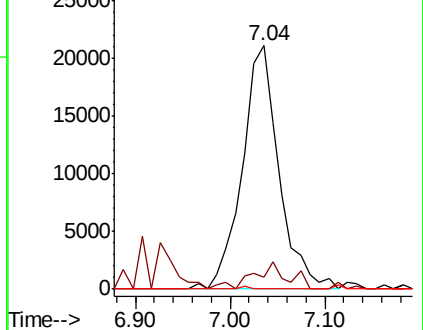
77 0.0 25.2 37.8#

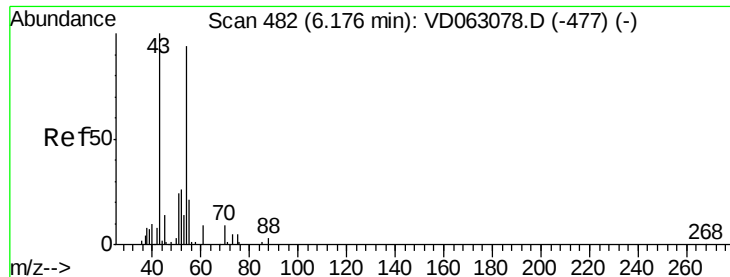


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

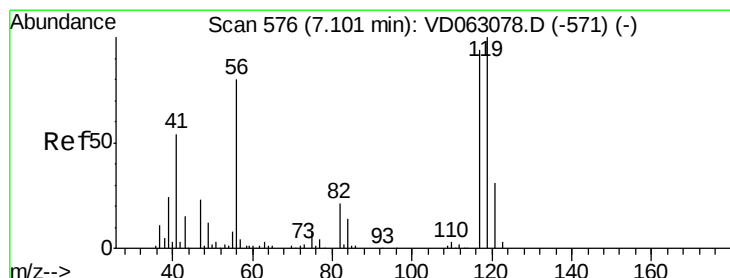
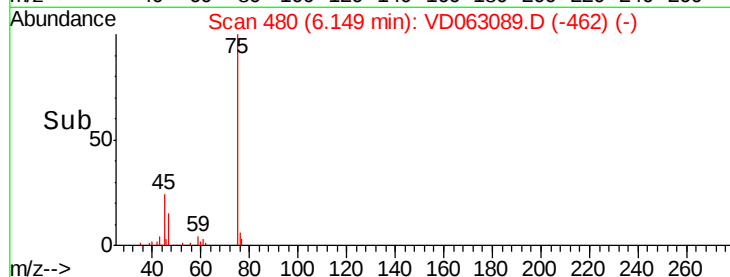
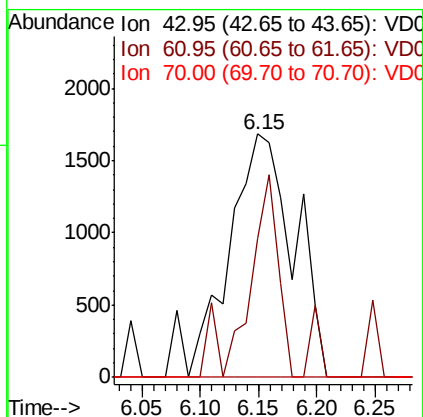
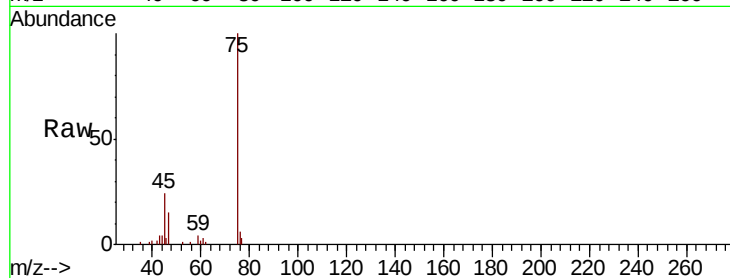




#37
Ethyl Acetate
Concen: 1.296 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.03 min
Lab File: VD063089.D
Acq: 15 Jul 2019 19:10

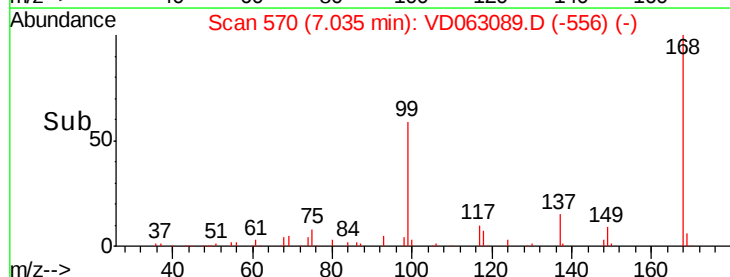
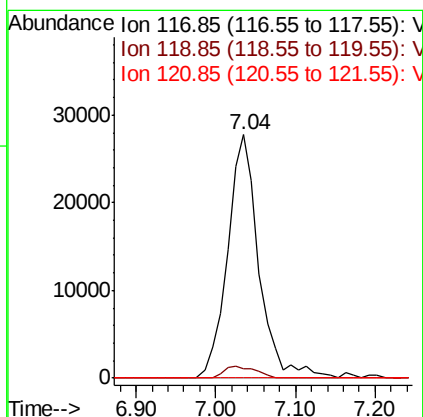
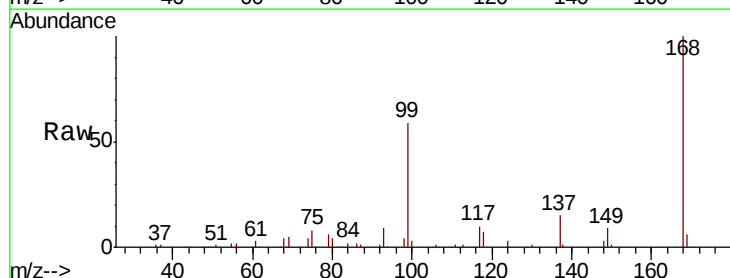
Instrument :
MSVOA_D
ClientSampleId :
TP-2

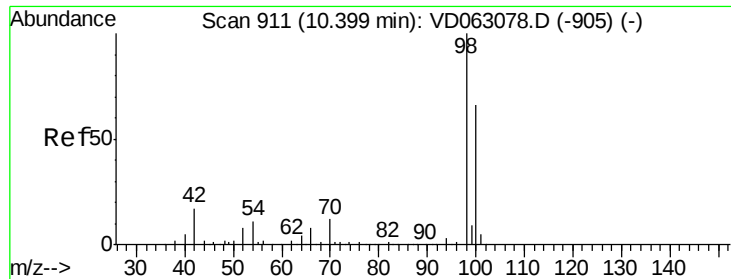
Tot Ion: 43 Resp: 6441
Ion Ratio Lower Upper
43 100
61 57.2 10.6 16.0#
70 0.0 6.6 9.8#



#38
Carbon Tetrachloride
Concen: 4.304 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD063089.D
Acq: 15 Jul 2019 19:10

Tgt Ion: 117 Resp: 75970
Ion Ratio Lower Upper
117 100
119 3.9 80.0 120.0#
121 0.0 25.0 37.4#

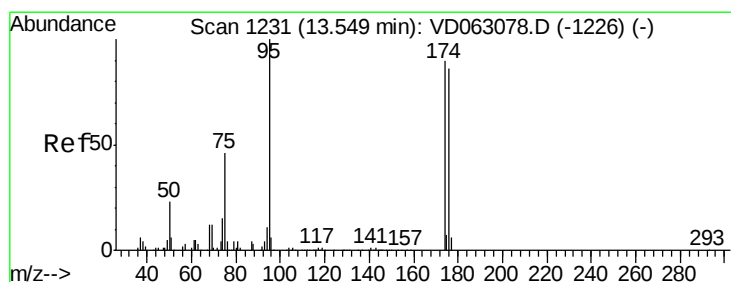
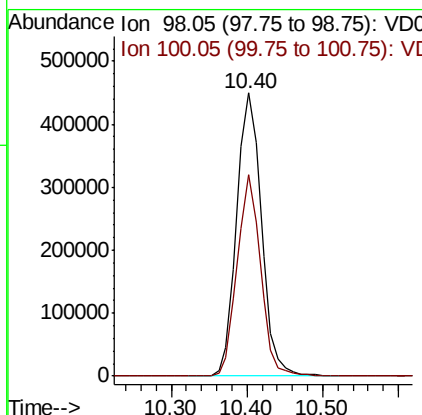
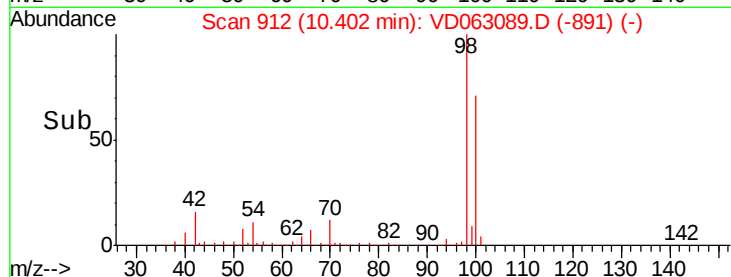
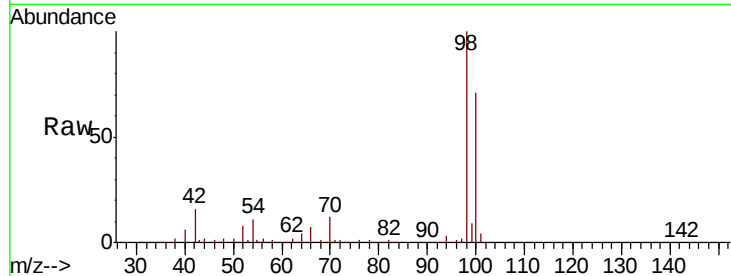




#50
Toluene-d8
Concen: 46.194 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063089.D
Acq: 15 Jul 2019 19:10

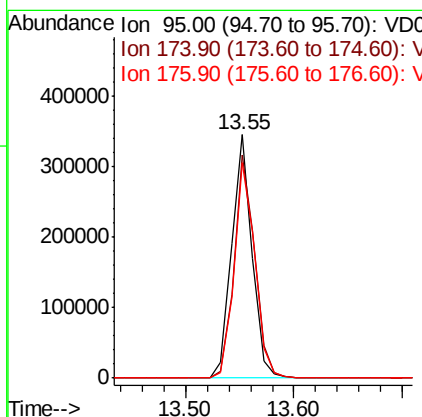
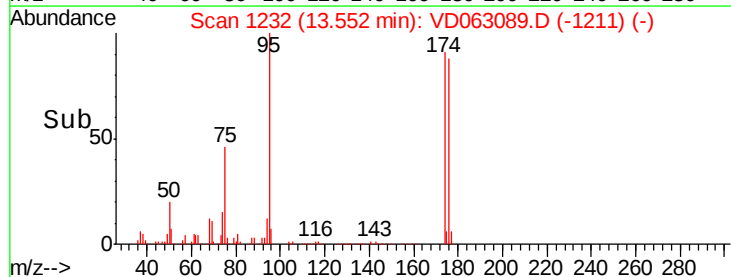
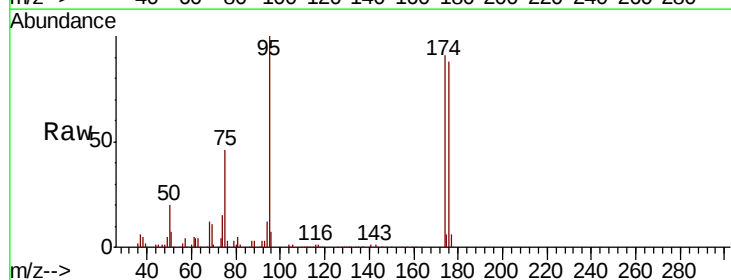
Instrument :
MSVOA_D
ClientSampleId :
TP-2

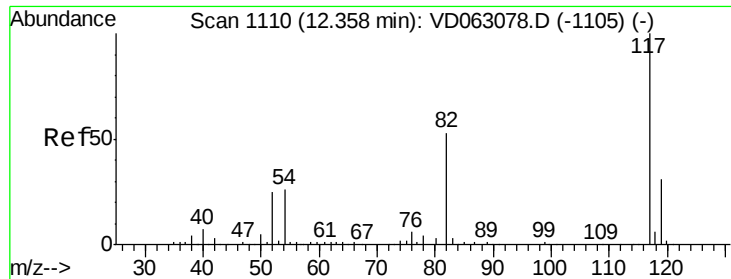
Tot Ion: 98 Resp: 1020706
Ion Ratio Lower Upper
98 100
100 71.1 53.5 80.3



#62
4-Bromofluorobenzene
Concen: 44.129 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063089.D
Acq: 15 Jul 2019 19:10

Tgt Ion: 95 Resp: 451103
Ion Ratio Lower Upper
95 100
174 91.4 0.0 180.6
176 88.3 0.0 172.2

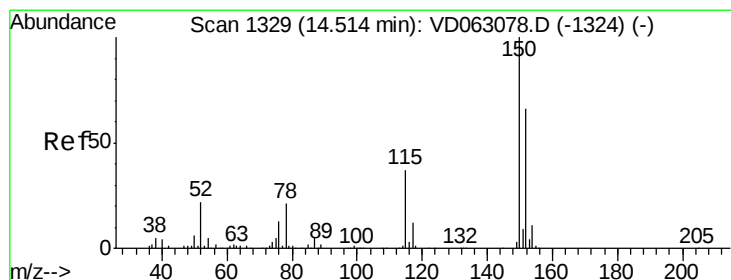
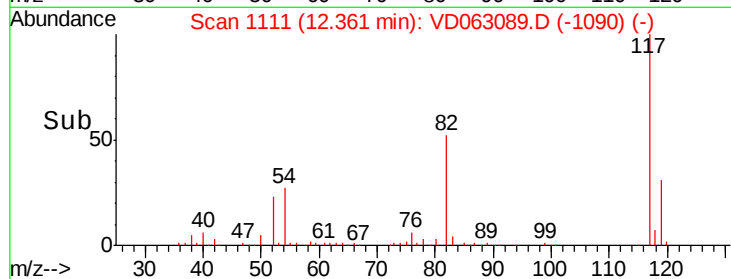
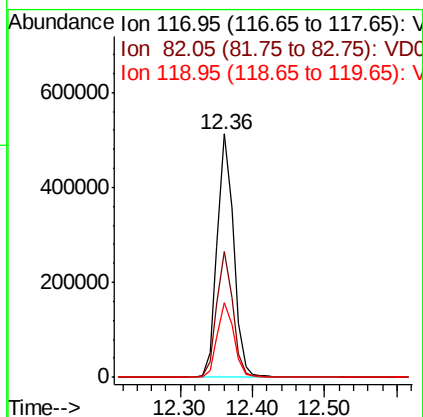
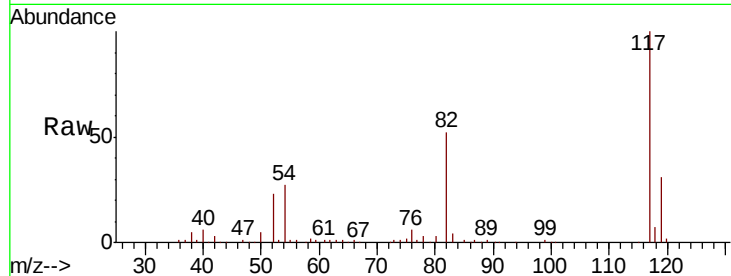




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063089.D
Acq: 15 Jul 2019 19:10

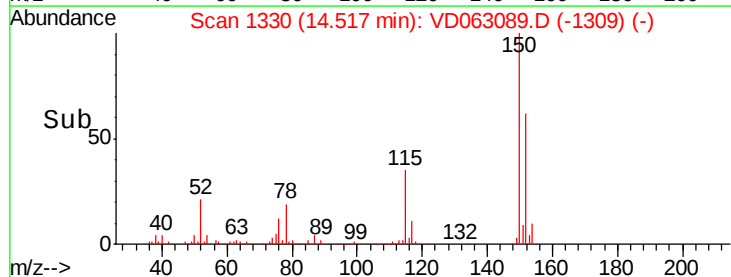
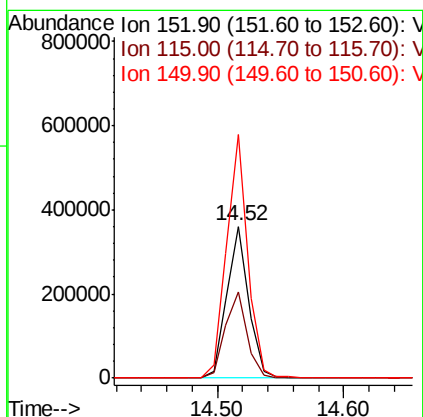
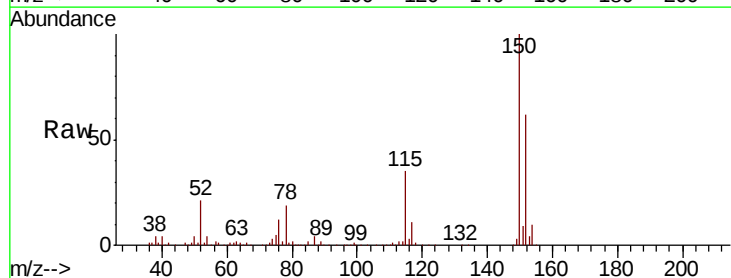
Instrument :
MSVOA_D
ClientSampleId :
TP-2

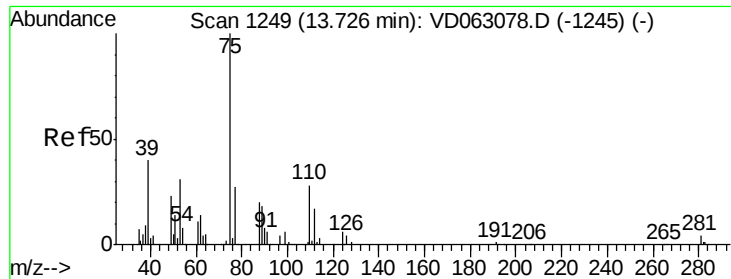
Tot Ion:117 Resp: 803692
Ion Ratio Lower Upper
117 100
82 51.9 42.3 63.5
119 30.6 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063089.D
Acq: 15 Jul 2019 19:10

Tgt Ion:152 Resp: 428467
Ion Ratio Lower Upper
152 100
115 56.3 28.9 86.8
150 160.1 0.0 313.8





#76

1,2,3-Trichloropropane

Concen: 22.401 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063089.D

Acq: 15 Jul 2019 19:10

Instrument :

MSVOA_D

ClientSampleId :

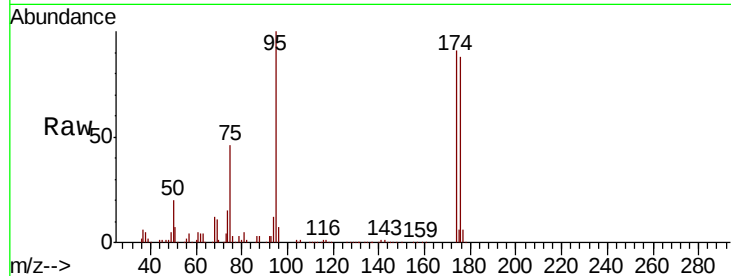
TP-2

Tot Ion: 75 Resp: 147648

Ion Ratio Lower Upper

75 100

77 1.0 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

13.55

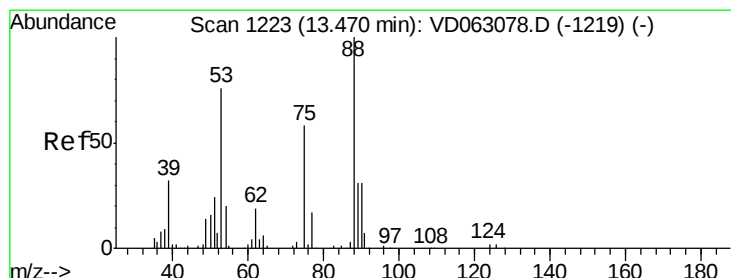
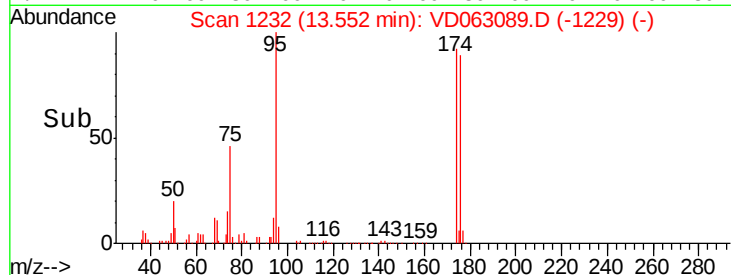
150000

100000

50000

0

Time--> 13.50 13.55 13.60 13.65



#81

trans-1,4-Dichloro-2-butene

Concen: 122.497 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063089.D

Acq: 15 Jul 2019 19:10

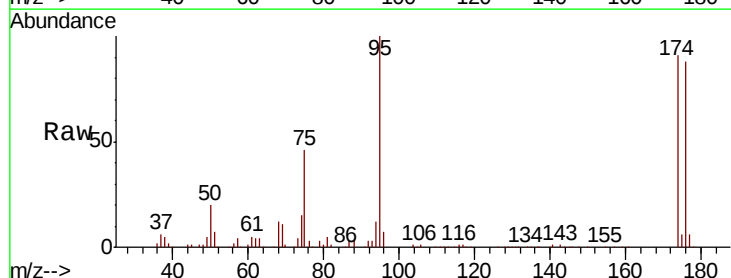
Tgt Ion: 75 Resp: 212614

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

200000

150000

100000

50000

0

Time--> 13.50 13.55 13.60

