

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\
 Data File : VD063113.D
 Acq On : 16 Jul 2019 18:17
 Operator : VA/AP
 Sample : K3622-05
 Misc : 6.54g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-071519-A

Quant Time: Jul 17 07:37:30 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	607739	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	816732	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	569830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	236319	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	342594	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
35) Dibromofluoromethane	6.92	113	373916	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	
50) Toluene-d8	10.40	98	539090	30.85	ug/l	0.00
Spiked Amount			Recovery	=	61.70%	
62) 4-Bromofluorobenzene	13.54	95	259621	32.12	ug/l	0.00
Spiked Amount			Recovery	=	64.24%	

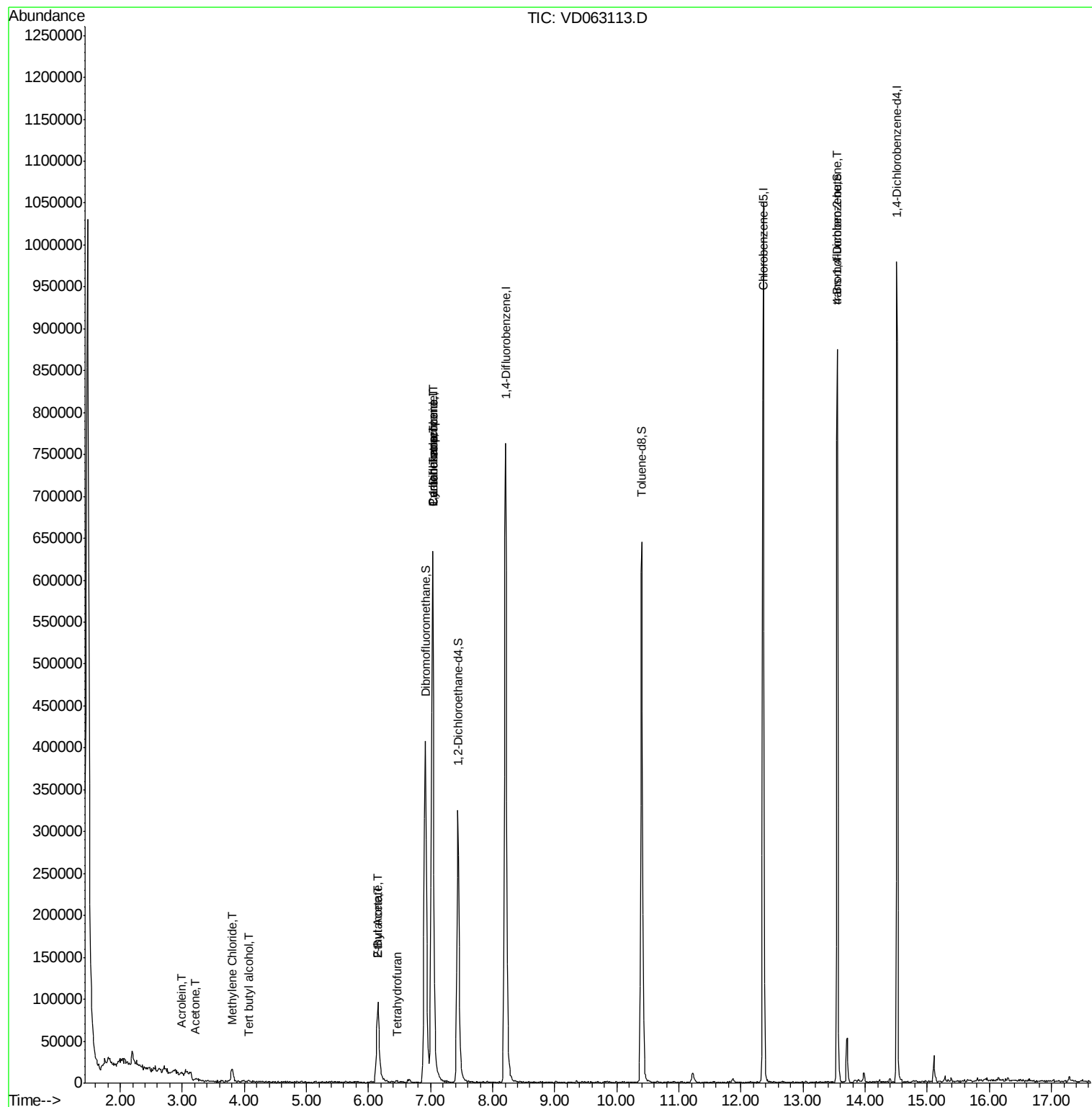
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	517	Below Cal	#	43
3) Chloromethane	1.74	50	396	Below Cal	#	28
5) Bromomethane	2.13	94	975	Below Cal	#	13
11) Tert butyl alcohol	4.07	59	1903	4.356	ug/l #	77
13) Acrolein	2.99	56	304	2.305	ug/l #	50
16) Acetone	3.23	43	5014	2.742	ug/l #	62
18) Methyl Acetate	3.64	43	2399	Below Cal	#	63
20) Methylene Chloride	3.79	84	11273	1.632	ug/l #	58
25) 2-Butanone	6.15	43	7199	4.123	ug/l #	61
29) Tetrahydrofuran	6.46	42	1006	1.271	ug/l #	48
31) Cyclohexane	7.03	56	13125	1.821	ug/l #	17
36) 1,1-Dichloropropene	7.03	75	48061	5.232	ug/l #	44
37) Ethyl Acetate	6.15	43	7199	1.831	ug/l #	16
38) Carbon Tetrachloride	7.04	117	61041	4.373	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.54	75	122718	128.192	ug/l #	1

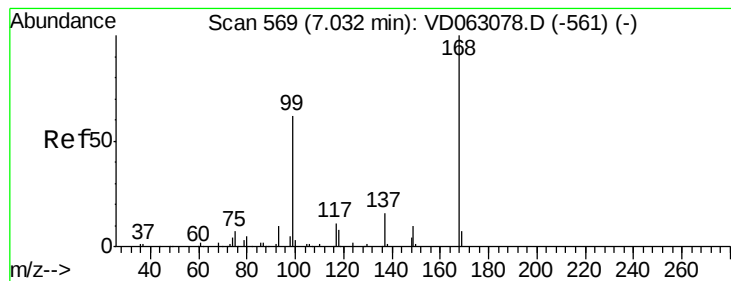
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063113.D

Acq: 16 Jul 2019 18:17

Instrument :

MSVOA_D

ClientSampleId :

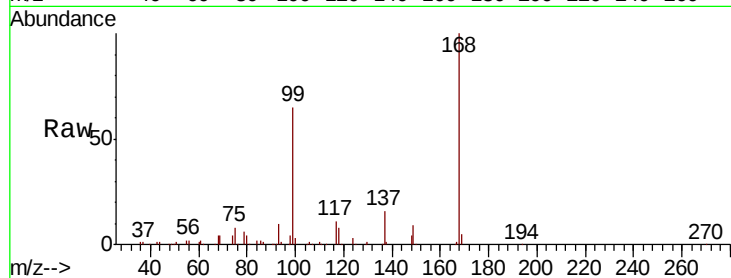
OR-03-071519-A

Tot Ion:168 Resp: 607739

Ion Ratio Lower Upper

168 100

99 64.9 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

250000

200000

150000

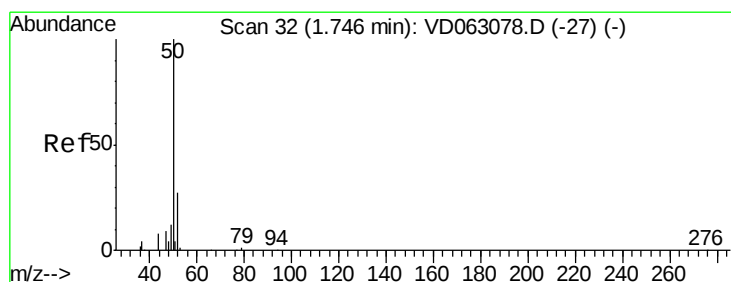
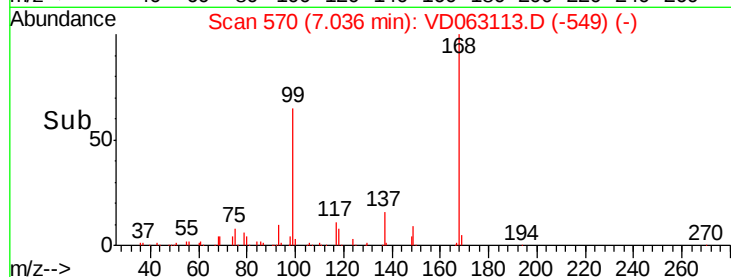
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063113.D

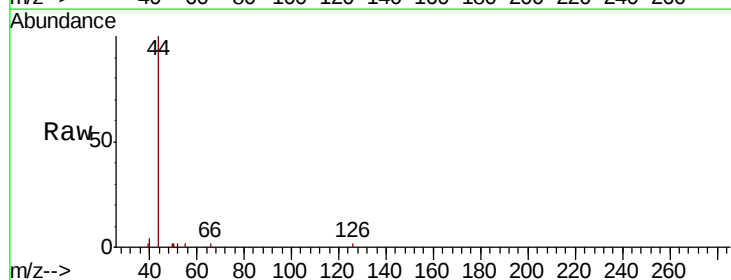
Acq: 16 Jul 2019 18:17

Tgt Ion: 50 Resp: 396

Ion Ratio Lower Upper

50 100

52 64.1 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

800

600

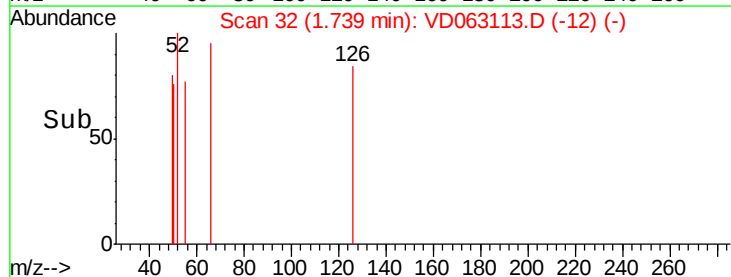
400

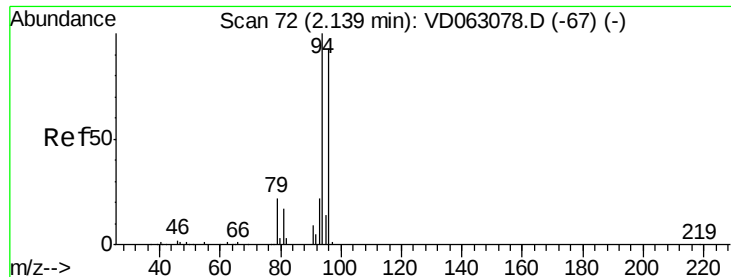
200

0

Time-->

1.72 1.74 1.76





#5

Bromomethane

Concen: Below Cal

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063113.D

Acq: 16 Jul 2019 18:17

Instrument :

MSVOA_D

ClientSampleId :

OR-03-071519-A

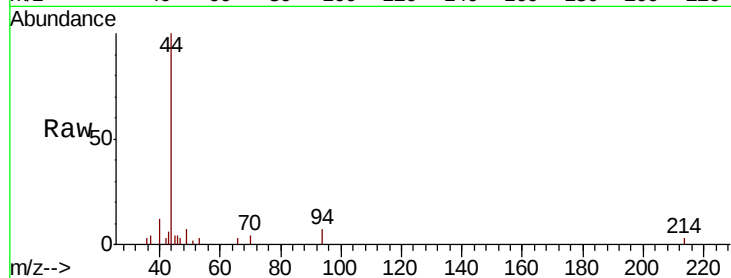
Tot Ion: 94 Resp: 975

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

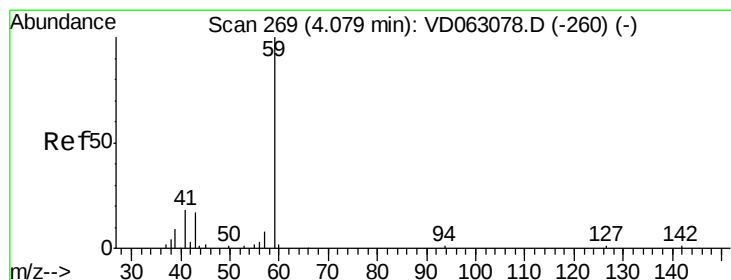
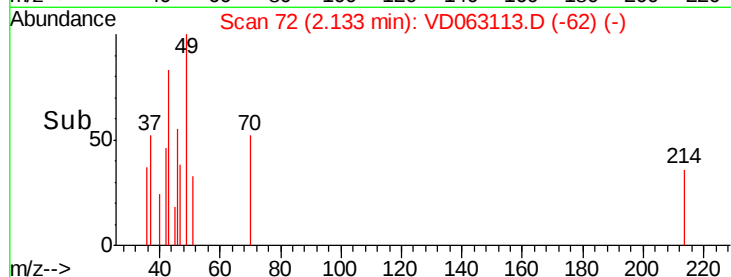
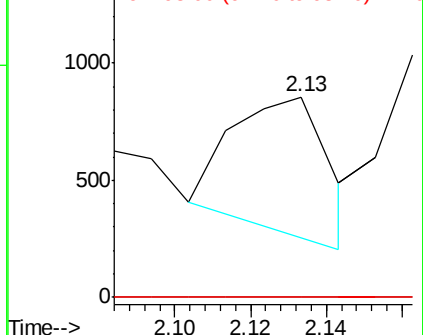
93 0.0 17.8 26.6#



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: 4.356 ug/l

RT: 4.07 min Scan# 269

Delta R.T. -0.01 min

Lab File: VD063113.D

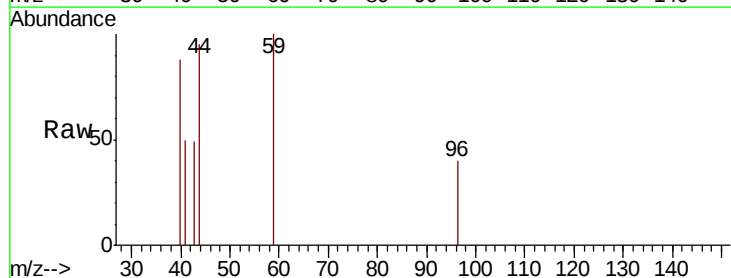
Acq: 16 Jul 2019 18:17

Tgt Ion: 59 Resp: 1903

Ion Ratio Lower Upper

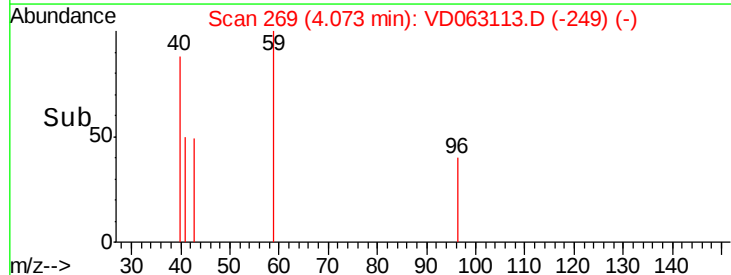
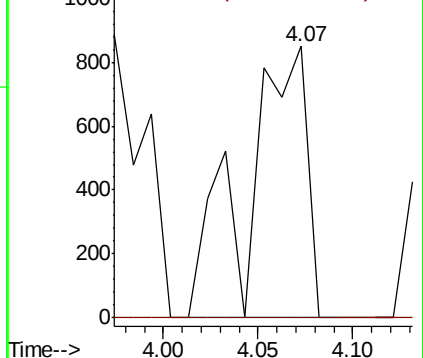
59 100

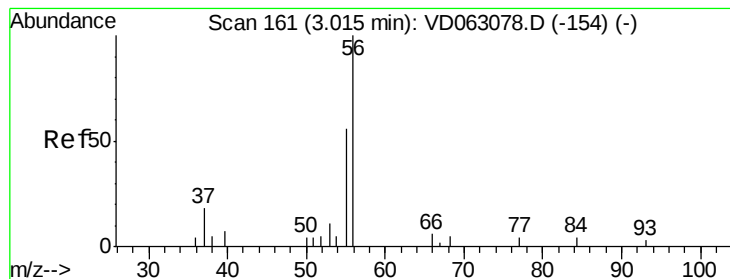
57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 2.305 ug/l

RT: 2.99 min Scan# 159

Delta R.T. -0.03 min

Lab File: VD063113.D

Acq: 16 Jul 2019 18:17

Instrument :

MSVOA_D

ClientSampleId :

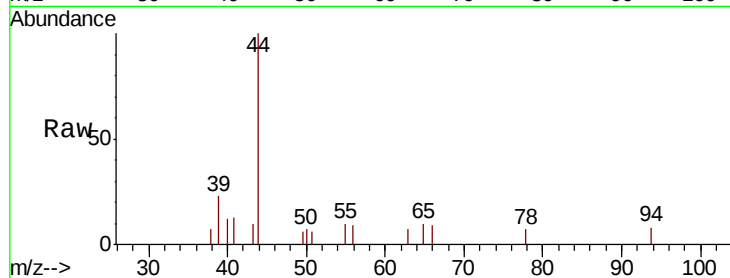
OR-03-071519-A

Tot Ion: 56 Resp: 304

Ion Ratio Lower Upper

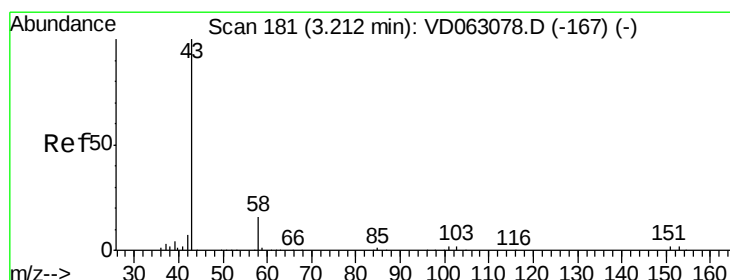
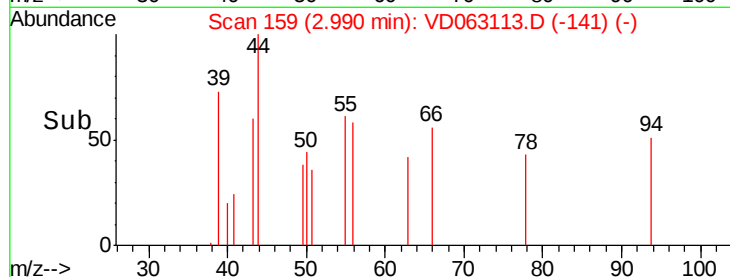
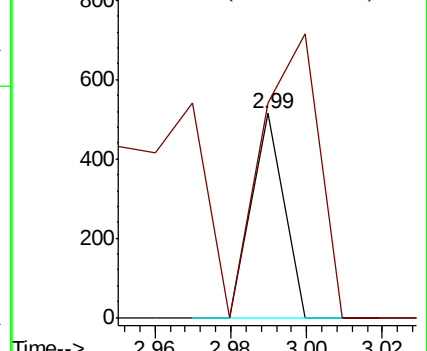
56 100

55 105.6 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: 2.742 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063113.D

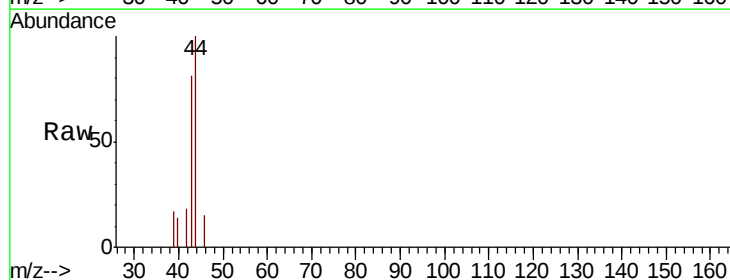
Acq: 16 Jul 2019 18:17

Tgt Ion: 43 Resp: 5014

Ion Ratio Lower Upper

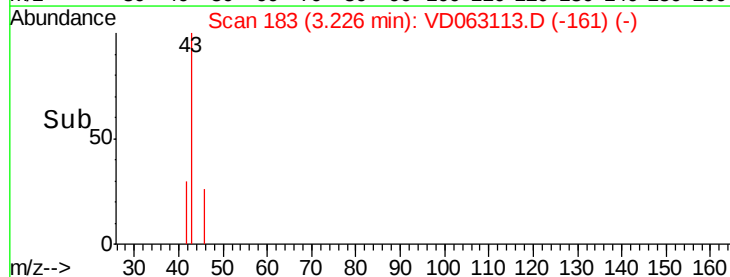
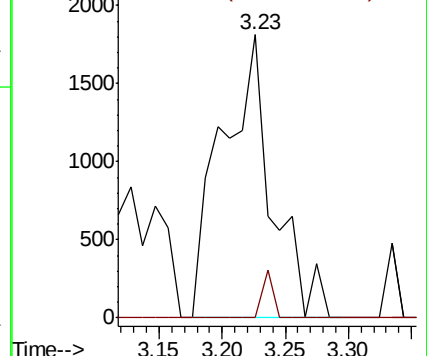
43 100

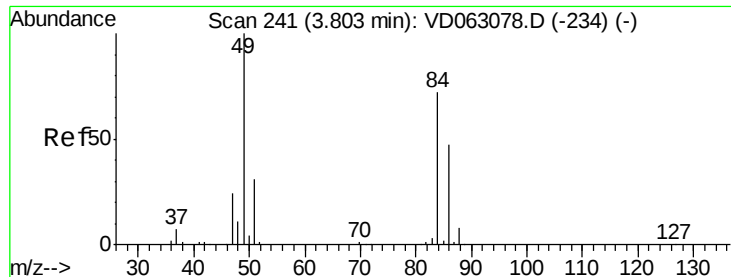
58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

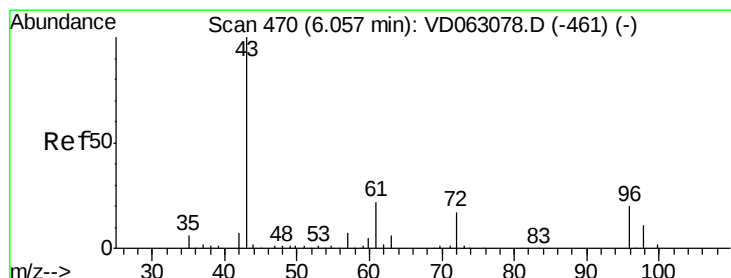
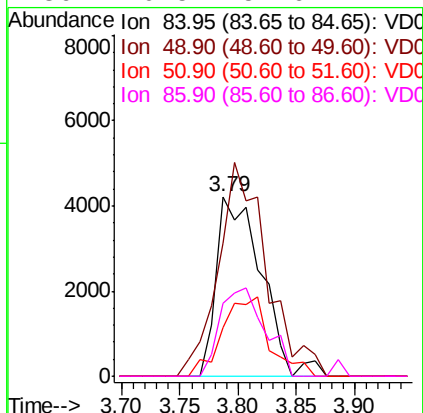
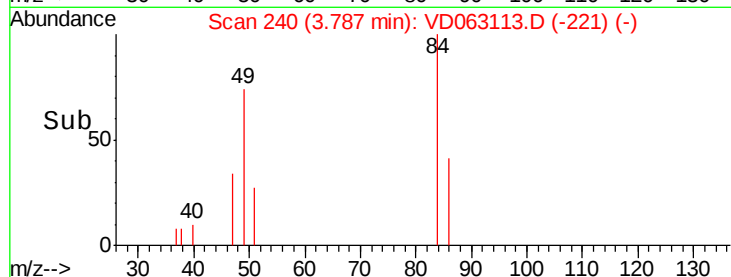
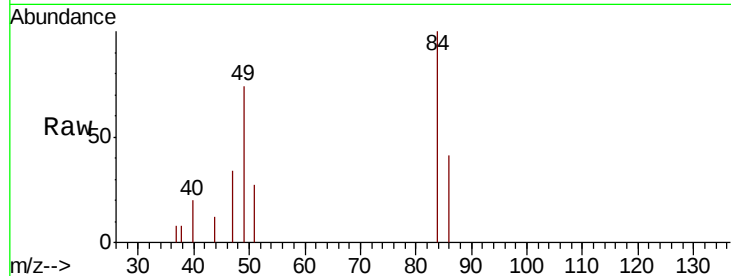




#20
Methylene Chloride
Concen: 1.632 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.02 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

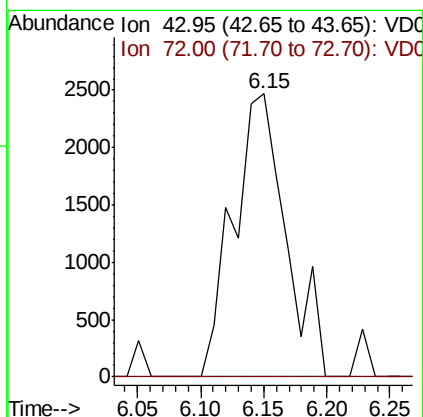
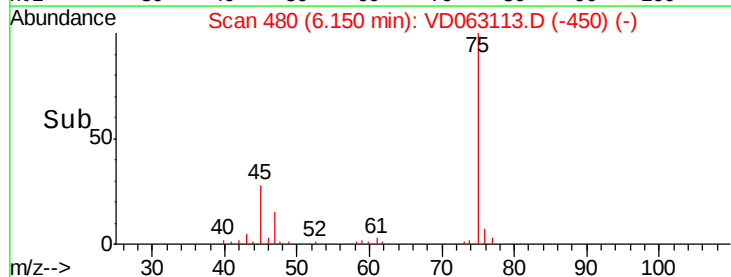
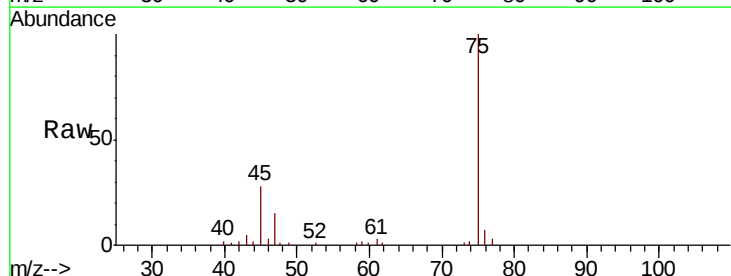
Instrument :
MSVOA_D
ClientSampleId :
OR-03-071519-A

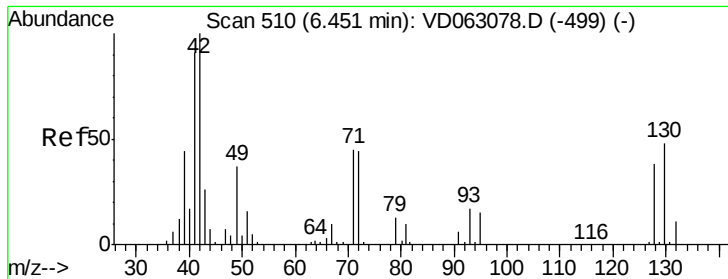
Tot Ion: 84 Resp: 11273
Ion Ratio Lower Upper
84 100
49 73.9 110.5 165.7#
51 27.4 34.6 51.8#
86 40.5 51.6 77.4#



#25
2-Butanone
Concen: 4.123 ug/l
RT: 6.15 min Scan# 480
Delta R.T. 0.09 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

Tgt Ion: 43 Resp: 7199
Ion Ratio Lower Upper
43 100
72 0.0 13.4 20.0#

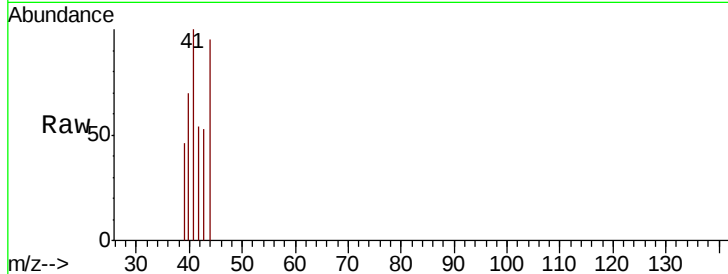




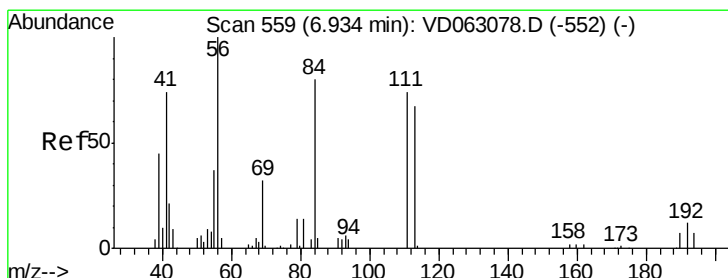
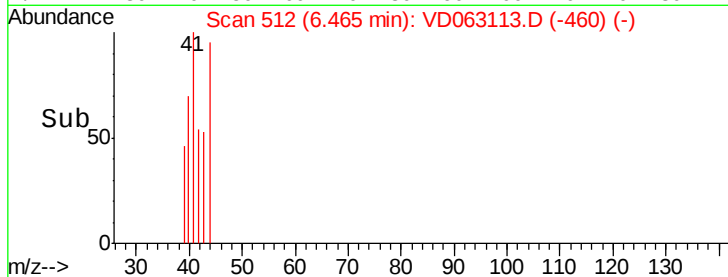
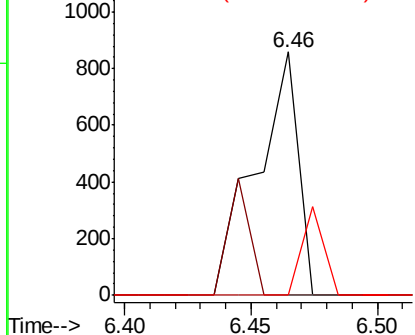
#29
Tetrahydrofuran
Concen: 1.271 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.01 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

Instrument :
MSVOA_D
ClientSampleId :
OR-03-071519-A

Tot Ion: 42 Resp: 1006
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 18.3 34.2 51.2#

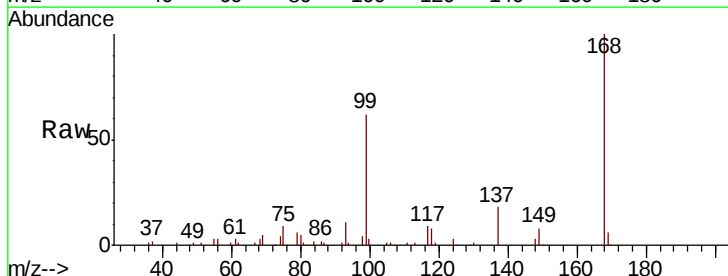


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

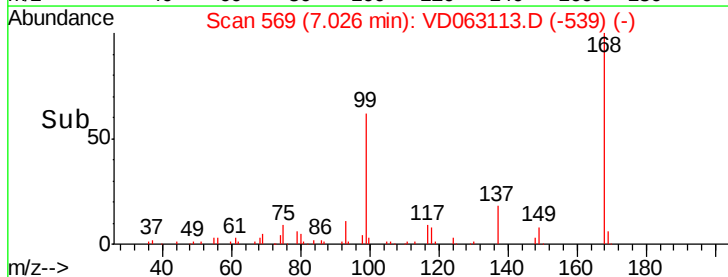
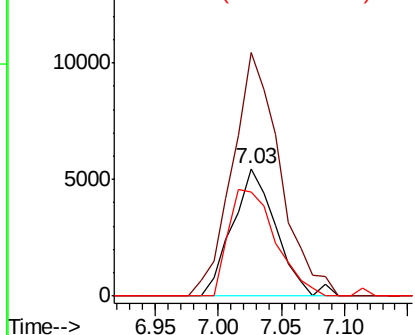


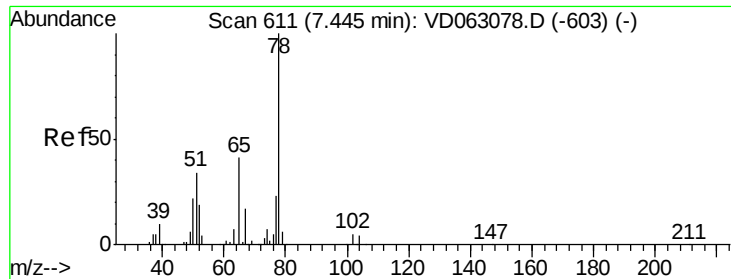
#31
Cyclohexane
Concen: 1.821 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.09 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

Tgt Ion: 56 Resp: 13125
Ion Ratio Lower Upper
56 100
69 191.4 25.3 37.9#
84 81.9 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: 45.253 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD063113.D

Acq: 16 Jul 2019 18:17

Instrument :

MSVOA_D

ClientSampleId :

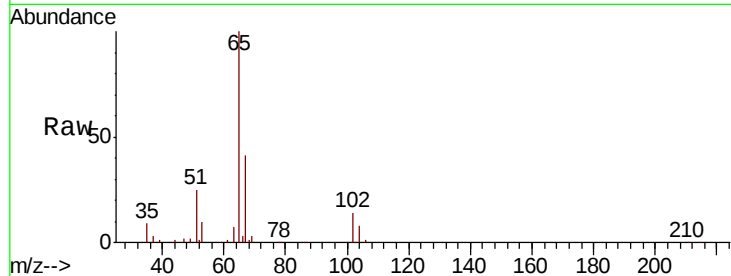
OR-03-071519-A

Tot Ion: 65 Resp: 342594

Ion Ratio Lower Upper

65 100

67 41.2 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

150000

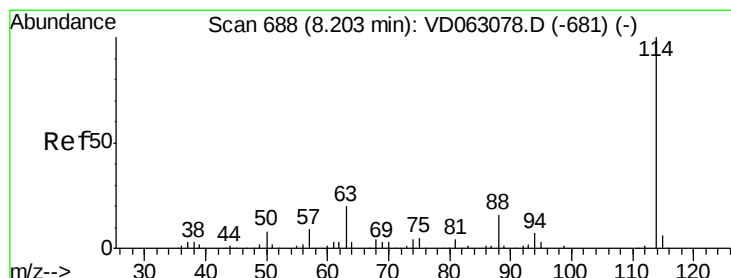
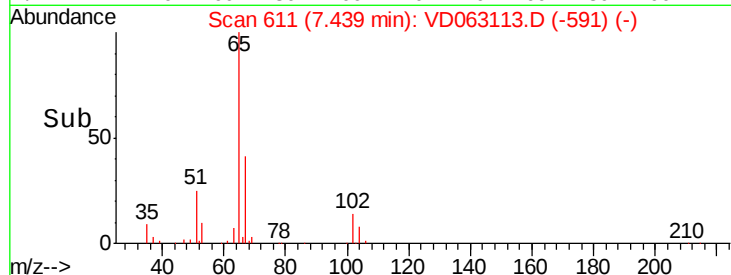
100000

50000

0

7.30 7.40 7.50 7.60

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063113.D

Acq: 16 Jul 2019 18:17

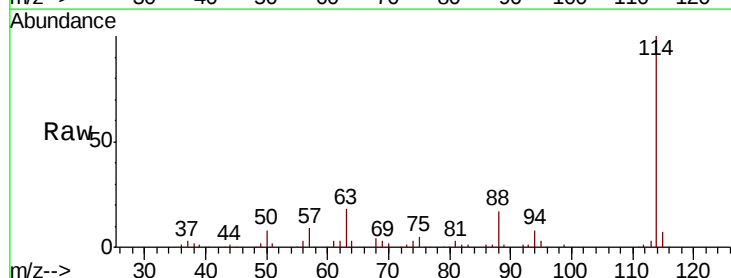
Tgt Ion: 114 Resp: 816732

Ion Ratio Lower Upper

114 100

63 17.5 0.0 40.6

88 17.2 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

400000

300000

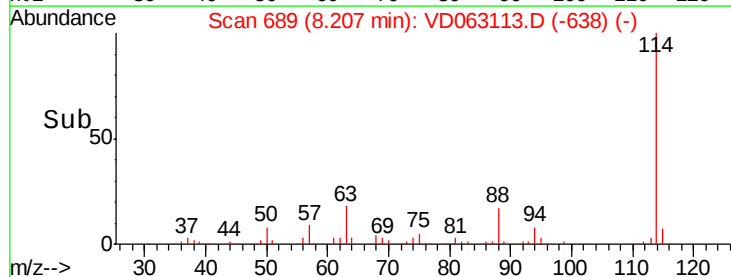
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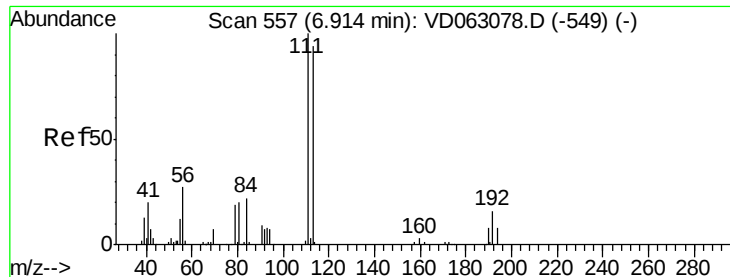
100000

0

8.10 8.20 8.30 8.40

Time-->





#35

Dibromofluoromethane

Concen: 45.965 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063113.D

Acq: 16 Jul 2019 18:17

Instrument :

MSVOA_D

ClientSampleId :

OR-03-071519-A

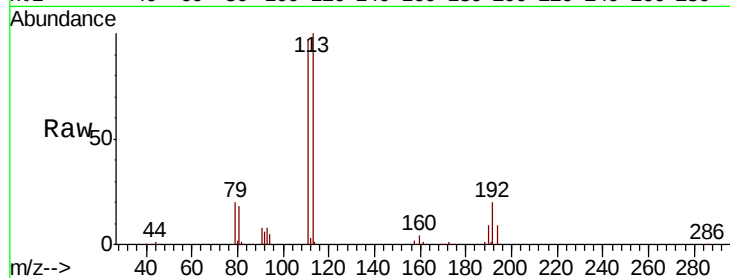
Tot Ion:113 Resp: 373916

Ion Ratio Lower Upper

113 100

111 96.8 84.8 127.2

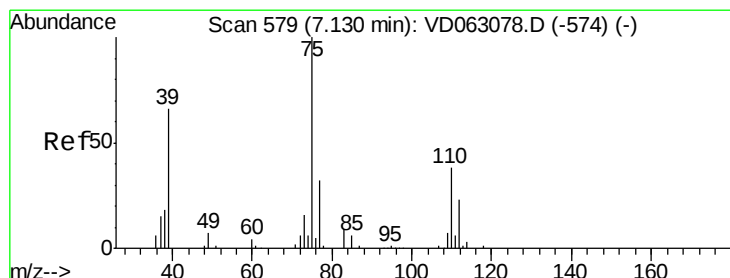
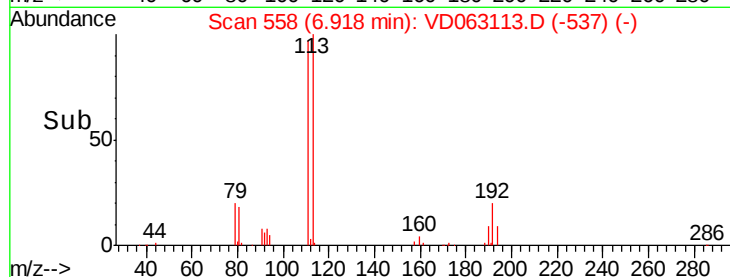
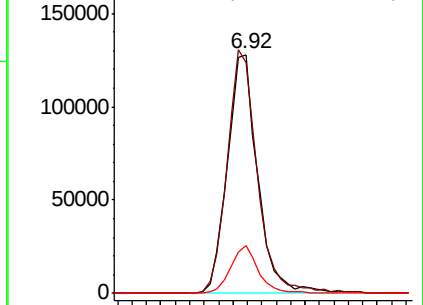
192 20.1 13.4 20.0#



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: 5.232 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.10 min

Lab File: VD063113.D

Acq: 16 Jul 2019 18:17

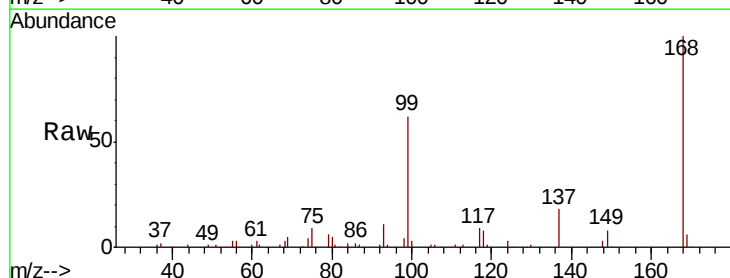
Tgt Ion: 75 Resp: 48061

Ion Ratio Lower Upper

75 100

110 4.6 18.9 56.5#

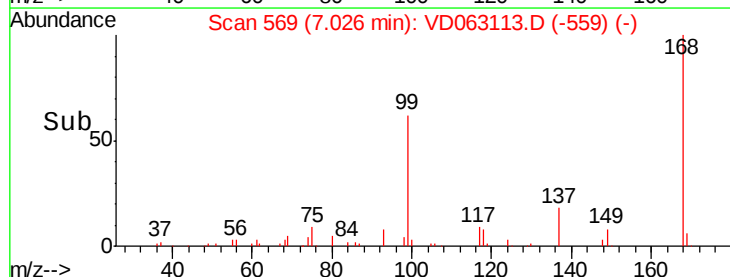
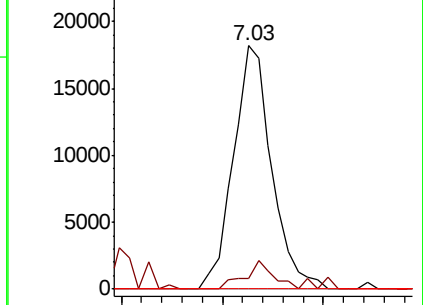
77 0.0 25.2 37.8#

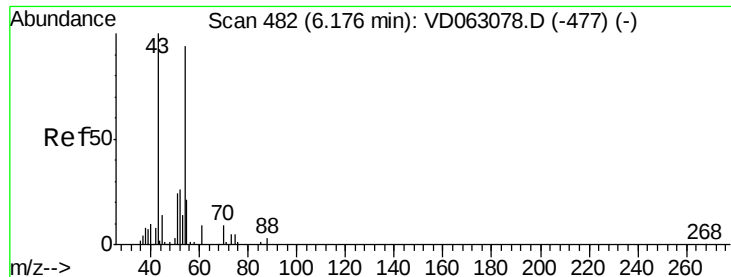


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

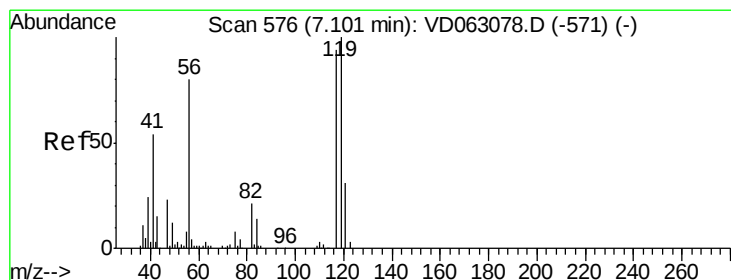
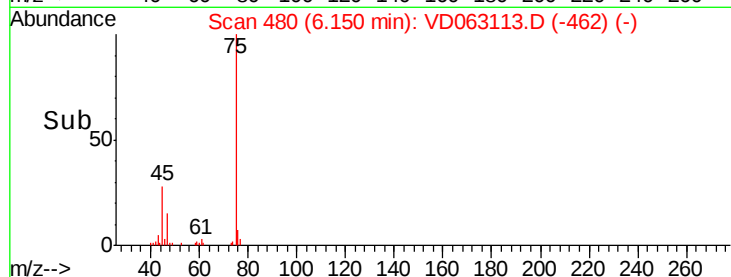
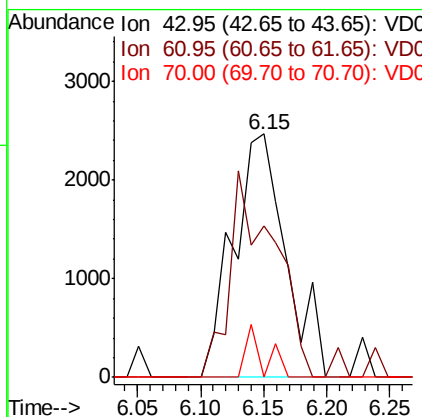
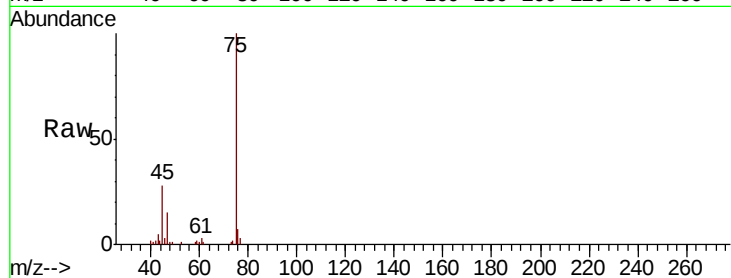




#37
Ethyl Acetate
Concen: 1.831 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.03 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

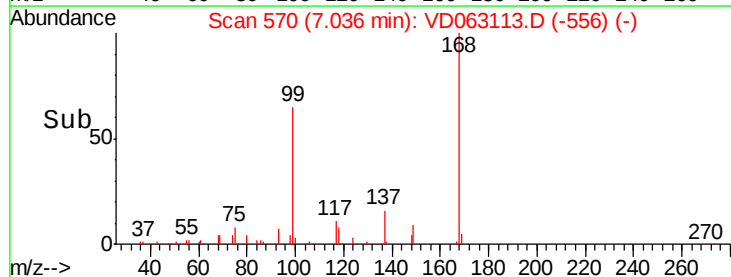
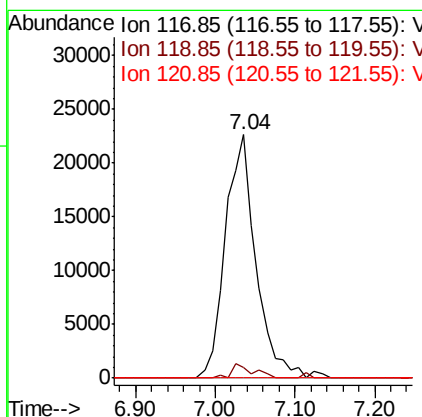
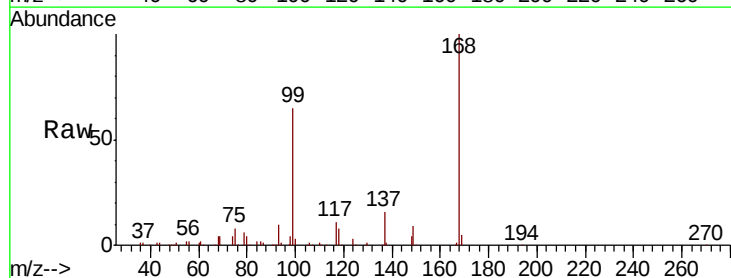
Instrument :
MSVOA_D
ClientSampleId :
OR-03-071519-A

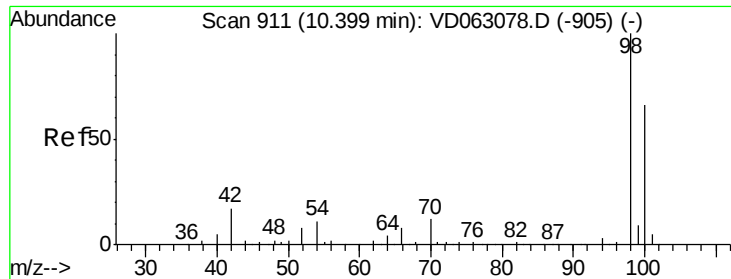
Tot Ion	Ratio	Lower	Upper
43	100		
61	62.2	10.6	16.0#
70	0.0	6.6	9.8#



#38
Carbon Tetrachloride
Concen: 4.373 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	80.0	120.0#
121	0.0	25.0	37.4#

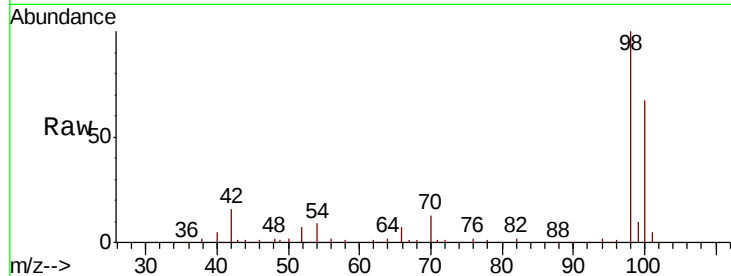




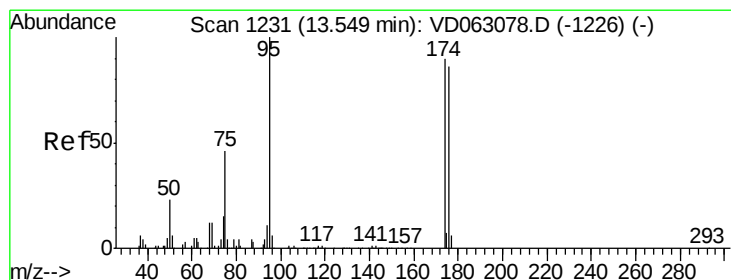
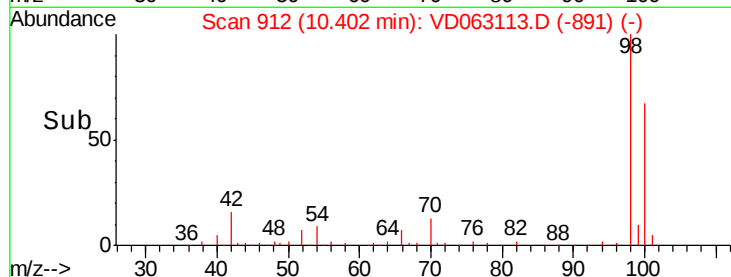
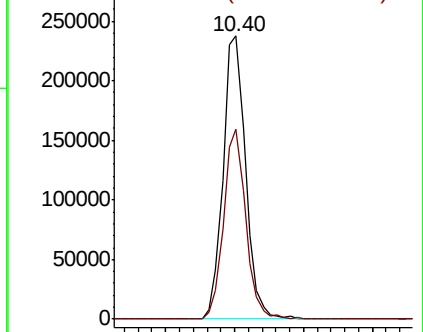
#50
Toluene-d8
Concen: 30.851 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

Instrument :
MSVOA_D
ClientSampleId :
OR-03-071519-A

Tot Ion: 98 Resp: 539090
Ion Ratio Lower Upper
98 100
100 67.2 53.5 80.3

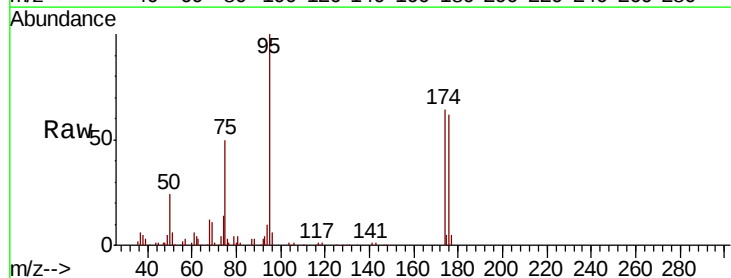


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

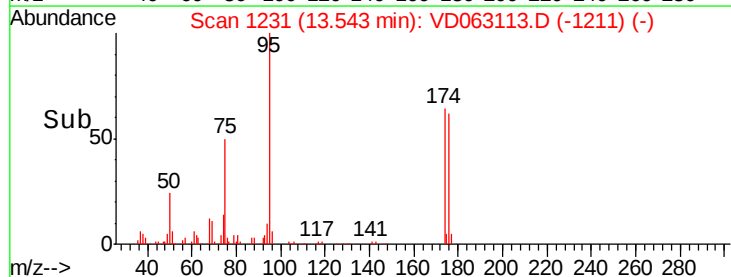
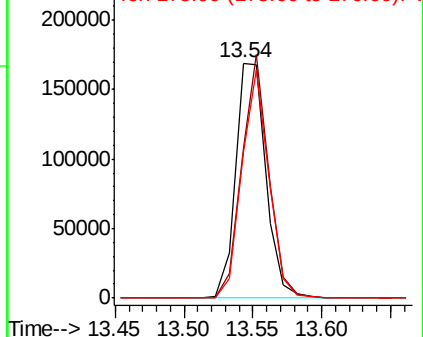


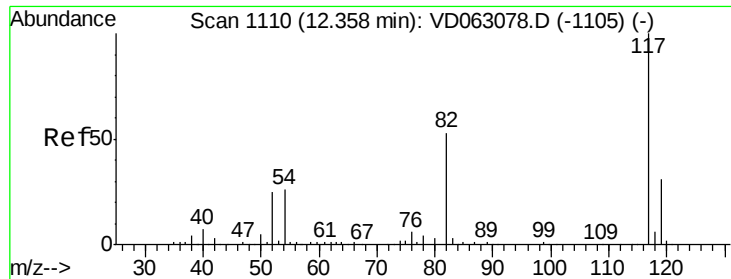
#62
4-Bromofluorobenzene
Concen: 32.116 ug/l
RT: 13.54 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

Tgt Ion: 95 Resp: 259621
Ion Ratio Lower Upper
95 100
174 63.9 0.0 180.6
176 62.4 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): VDC
Ion 175.90 (175.60 to 176.60): VDC

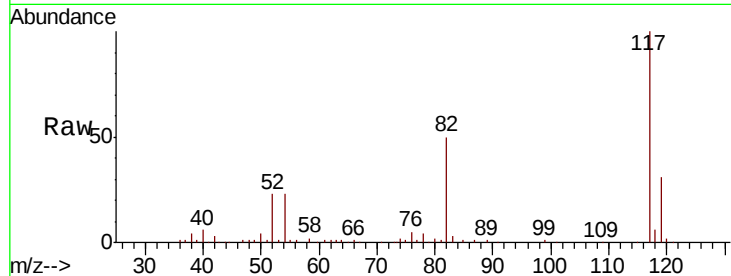




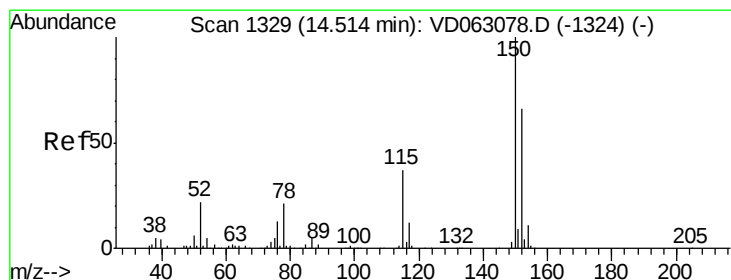
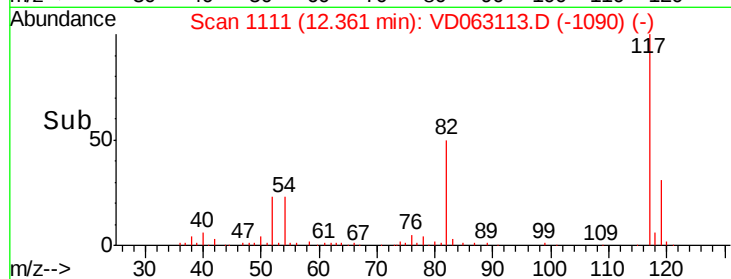
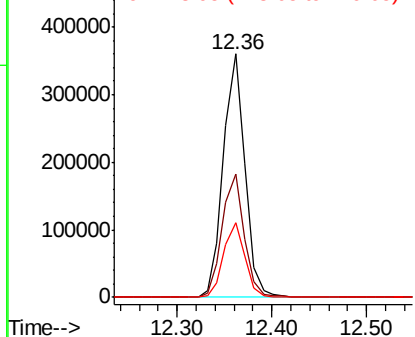
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

Instrument :
MSVOA_D
ClientSampleId :
OR-03-071519-A

Tot Ion:117 Resp: 569830
Ion Ratio Lower Upper
117 100
82 50.4 42.3 63.5
119 30.7 25.2 37.8

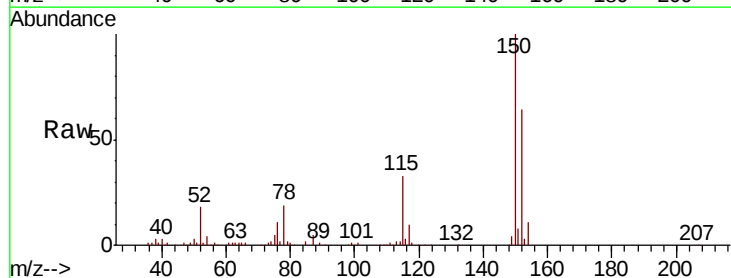


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

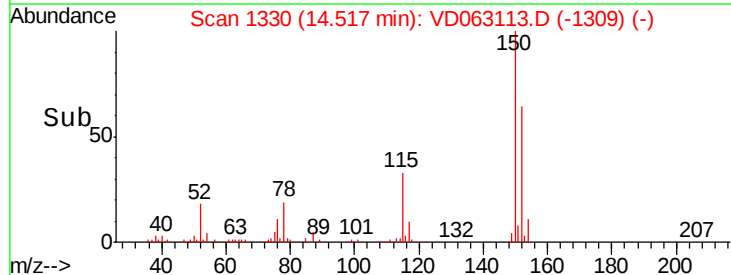
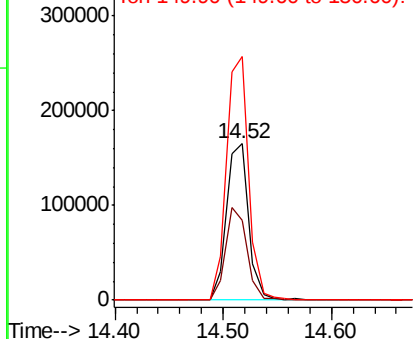


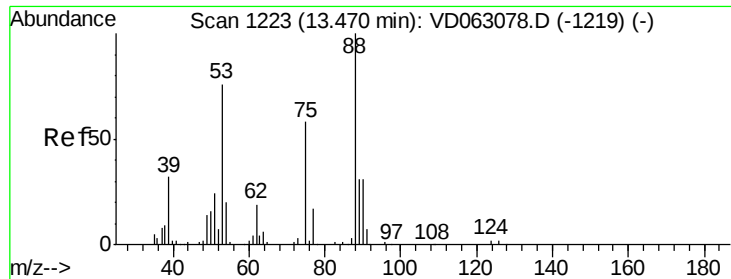
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063113.D
Acq: 16 Jul 2019 18:17

Tgt Ion:152 Resp: 236319
Ion Ratio Lower Upper
152 100
115 51.2 28.9 86.8
150 155.8 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: 128.192 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD063113.D

Acq: 16 Jul 2019 18:17

Instrument :

MSVOA_D

ClientSampleId :

OR-03-071519-A

Tot Ion: 75 Resp: 122718

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

