

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072919\
 Data File : VD063207.D
 Acq On : 29 Jul 2019 18:56
 Operator : VA/AP
 Sample : K4044-17
 Misc : 6.76g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-3

Quant Time: Jul 30 03:18:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	755277	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1007321	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	768274	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	382144	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	428709	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
35) Dibromofluoromethane	6.92	113	532829	61.95	ug/l	0.02
Spiked Amount			Recovery	=	123.90%	
50) Toluene-d8	10.41	98	1160891	60.31	ug/l	0.00
Spiked Amount			Recovery	=	120.62%	
62) 4-Bromofluorobenzene	13.55	95	456497	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	

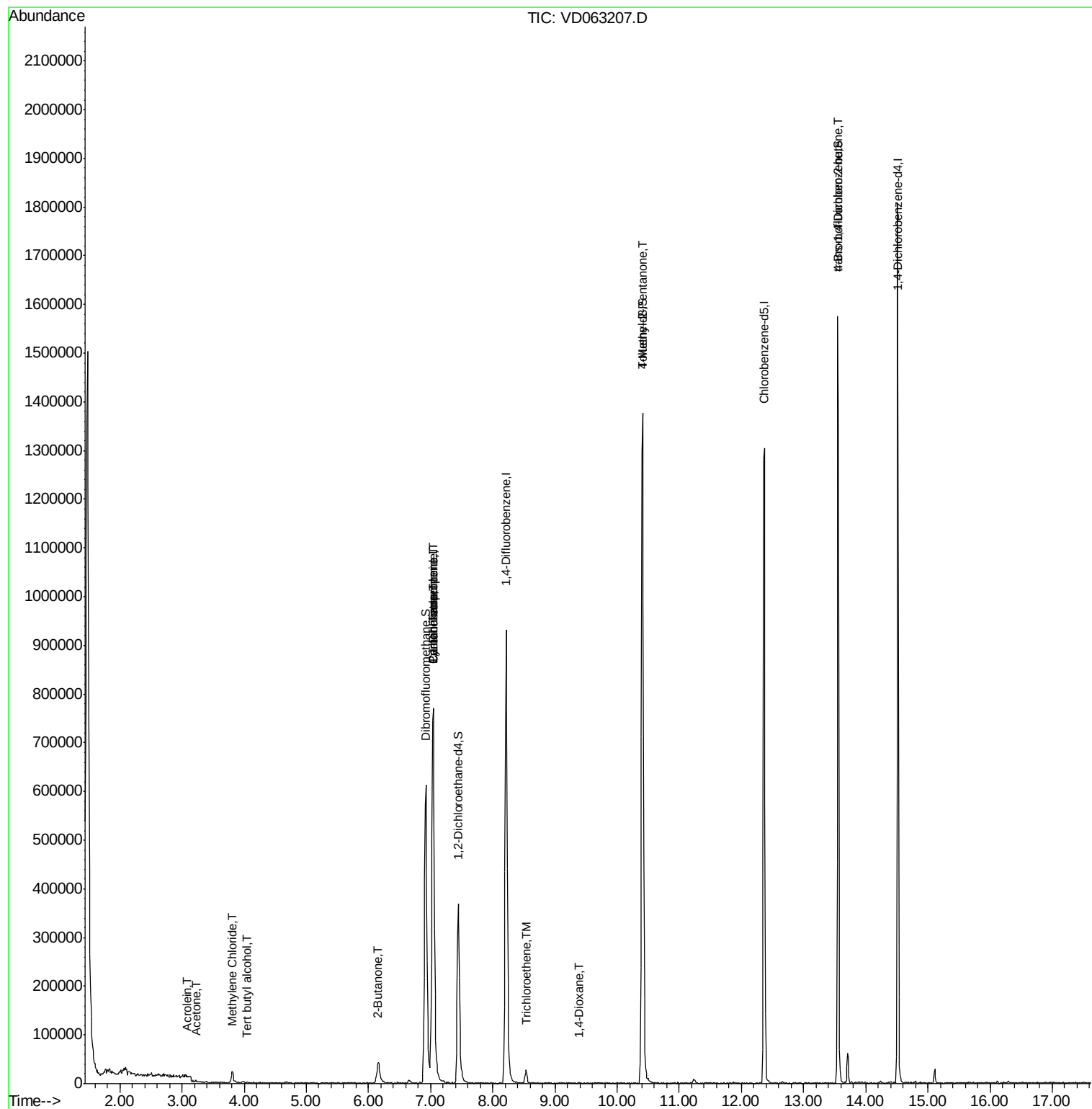
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.05	59	671	1.824	ug/l #	69
13) Acrolein	3.08	56	419	1.184	ug/l #	62
16) Acetone	3.22	43	5158	3.159	ug/l #	90
20) Methylene Chloride	3.81	84	14162	2.146	ug/l #	82
25) 2-Butanone	6.17	43	3750	2.288	ug/l #	56
31) Cyclohexane	7.03	56	16500	2.210	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	55966	6.088	ug/l #	53
38) Carbon Tetrachloride	7.04	117	75230	5.436	ug/l #	16
44) Trichloroethene	8.54	130	11367	1.456	ug/l	66
49) 1,4-Dioxane	9.37	88	197	2.691	ug/l #	1
51) 4-Methyl-2-Pentanone	10.40	43	7516	2.095	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	210018	164.777	ug/l #	3

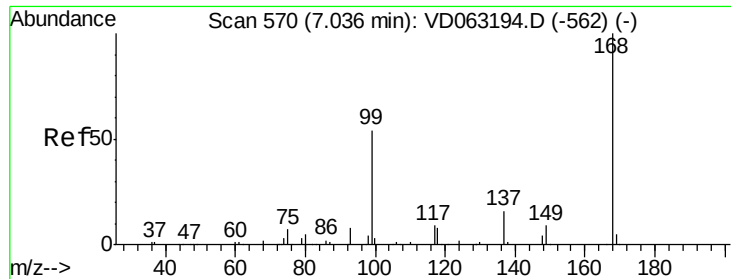
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.01 min

Lab File: VD063207.D

Acq: 29 Jul 2019 18:56

Instrument :

MSVOA_D

ClientSampleId :

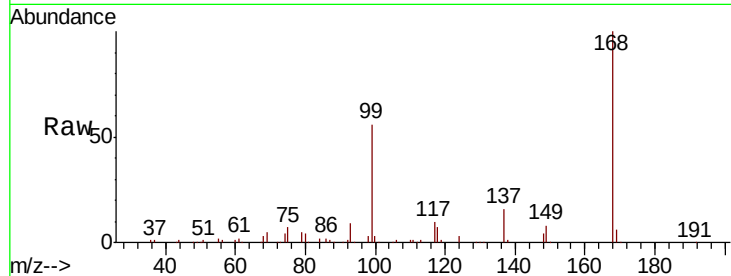
TP-3

Tot Ion:168 Resp: 755277

Ion Ratio Lower Upper

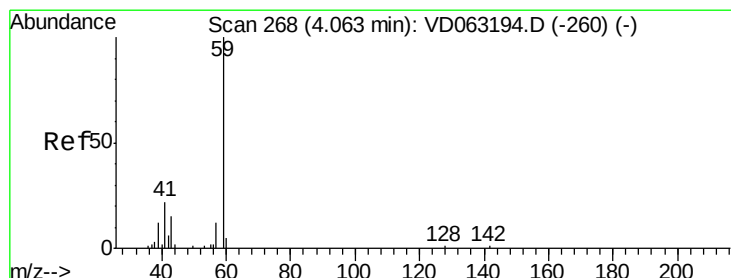
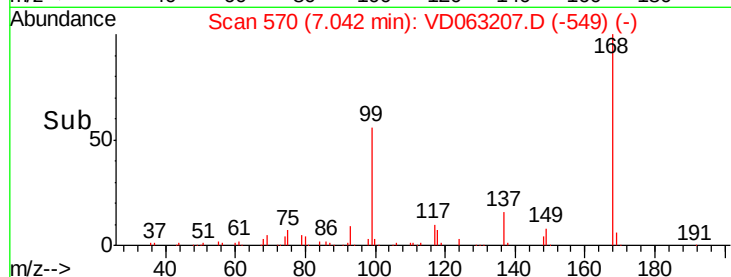
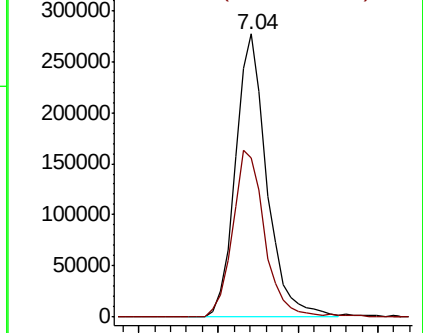
168 100

99 56.2 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.824 ug/l

RT: 4.05 min Scan# 266

Delta R.T. -0.01 min

Lab File: VD063207.D

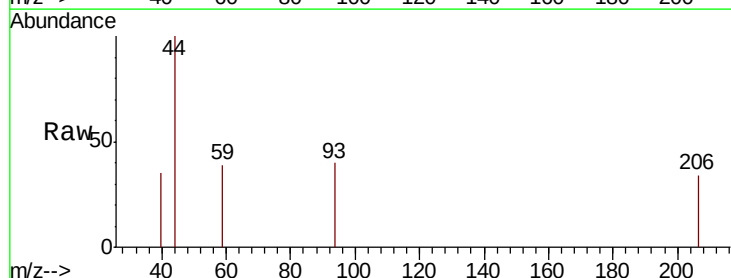
Acq: 29 Jul 2019 18:56

Tgt Ion: 59 Resp: 671

Ion Ratio Lower Upper

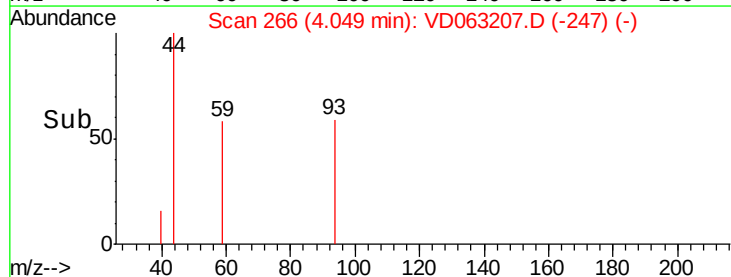
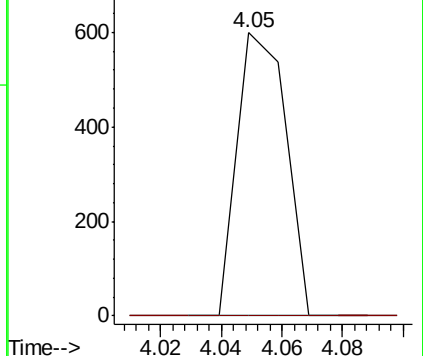
59 100

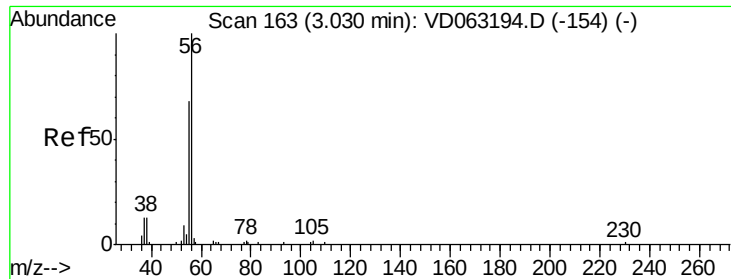
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.184 ug/l

RT: 3.08 min Scan# 168

Delta R.T. 0.05 min

Lab File: VD063207.D

Acq: 29 Jul 2019 18:56

Instrument :

MSVOA_D

ClientSampleId :

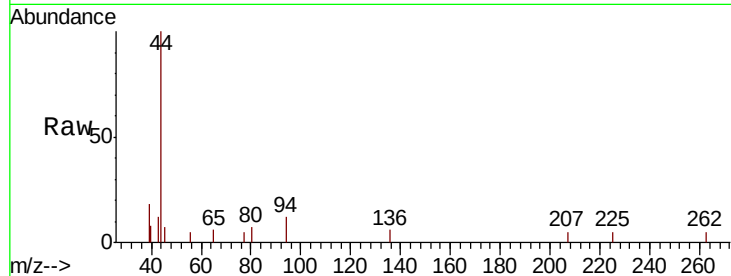
TP-3

Tot Ion: 56 Resp: 419

Ion Ratio Lower Upper

56 100

55 100.0 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

600

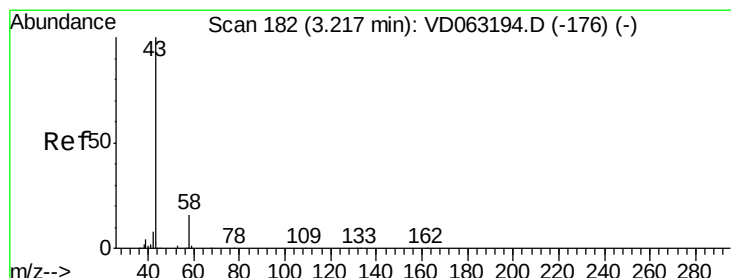
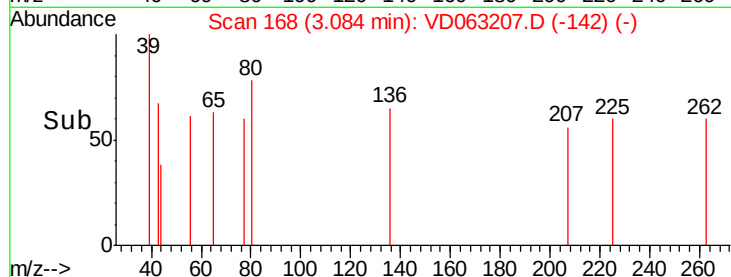
400

200

0

3.04 3.06 3.08 3.10 3.12

Time-->



#16

Acetone

Concen: 3.159 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD063207.D

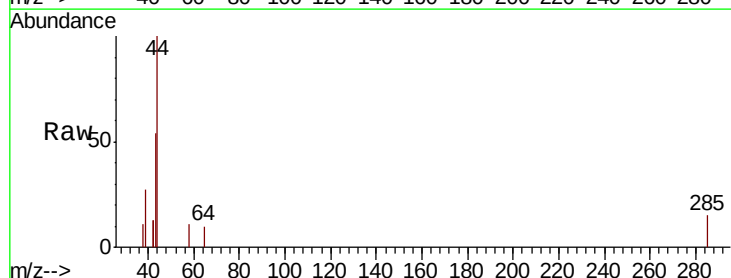
Acq: 29 Jul 2019 18:56

Tgt Ion: 43 Resp: 5158

Ion Ratio Lower Upper

43 100

58 20.4 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

1500

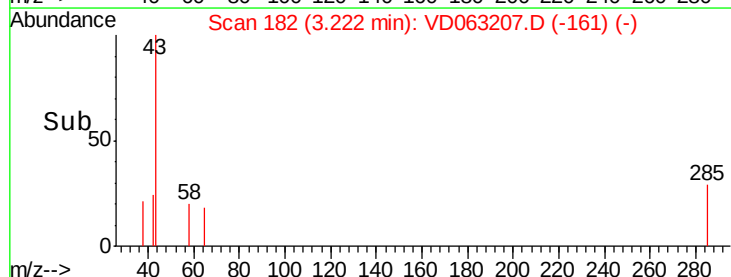
1000

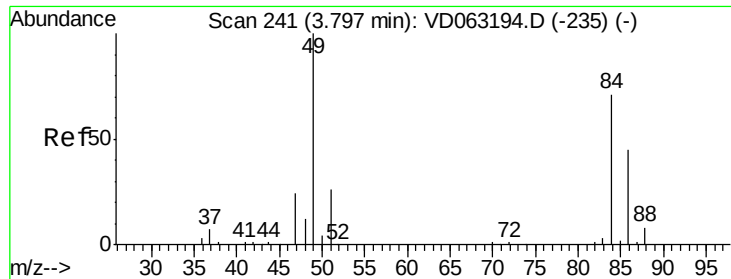
500

0

3.10 3.15 3.20 3.25 3.30

Time-->

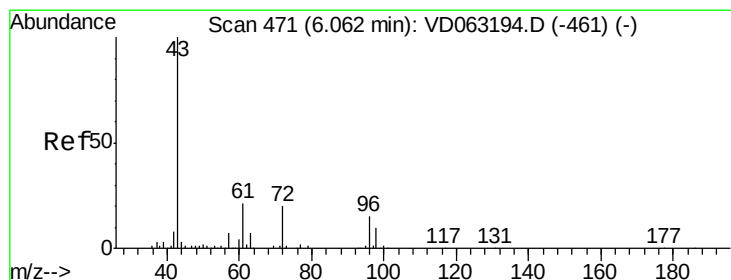
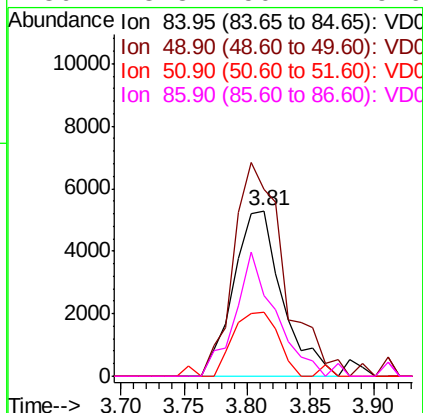
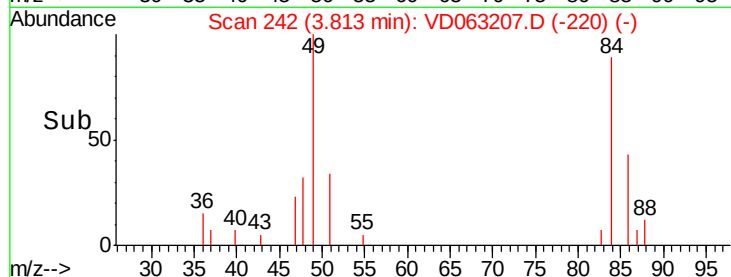
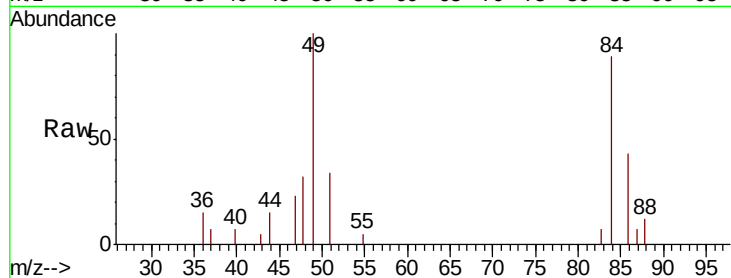




#20
Methylene Chloride
Concen: 2.146 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.02 min
Lab File: VD063207.D
Acq: 29 Jul 2019 18:56

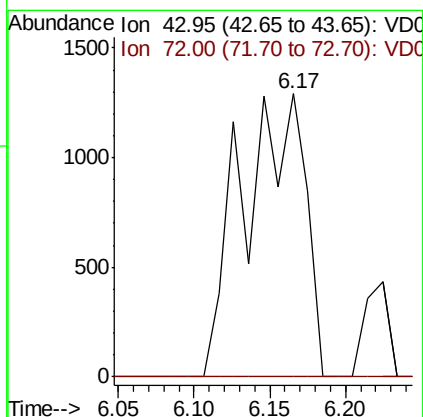
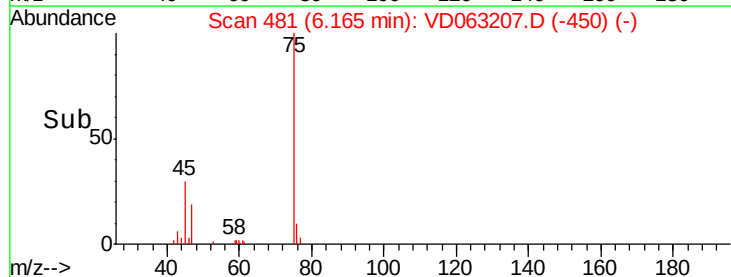
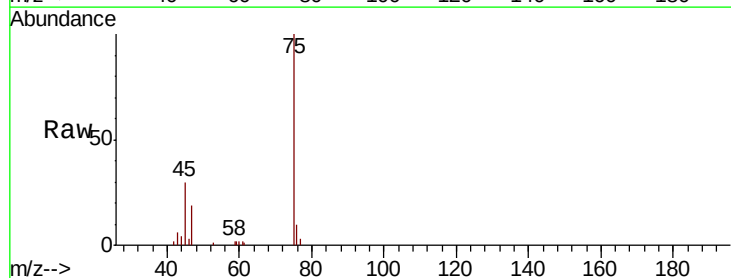
Instrument :
MSVOA_D
ClientSampleId :
TP-3

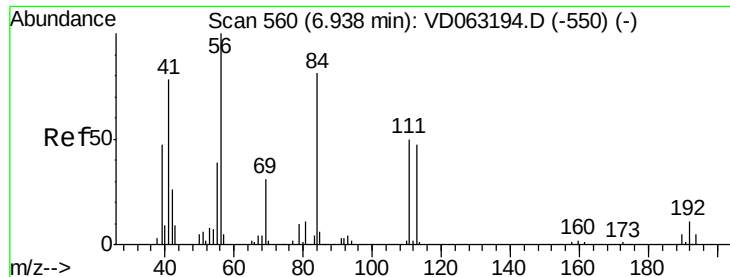
Tot Ion: 84 Resp: 14162
Ion Ratio Lower Upper
84 100
49 112.8 112.5 168.7
51 38.4 29.6 44.4
86 48.8 50.4 75.6#



#25
2-Butanone
Concen: 2.288 ug/l
RT: 6.17 min Scan# 481
Delta R.T. 0.10 min
Lab File: VD063207.D
Acq: 29 Jul 2019 18:56

Tgt Ion: 43 Resp: 3750
Ion Ratio Lower Upper
43 100
72 0.0 16.3 24.5#

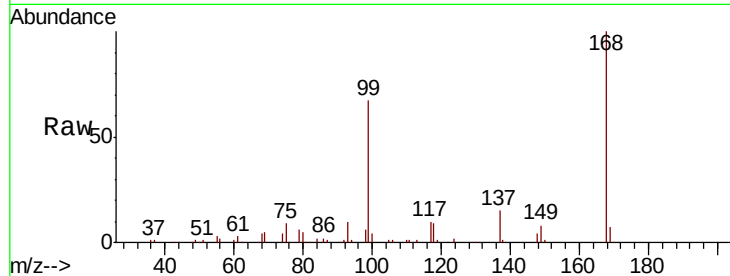




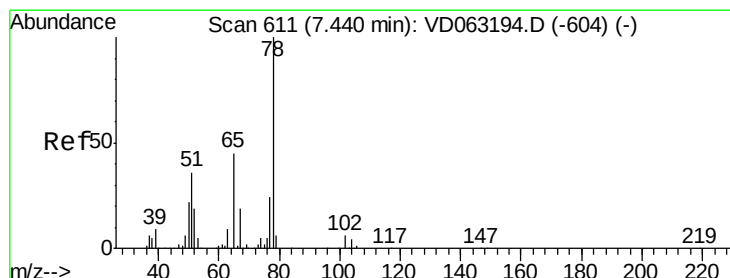
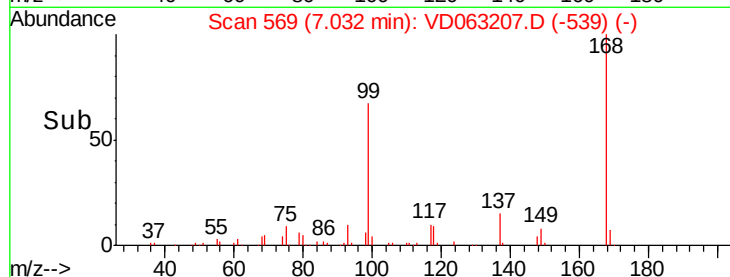
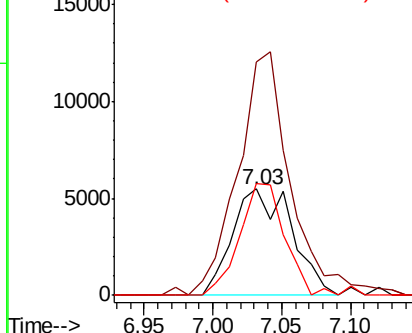
#31
Cyclohexane
Concen: 2.210 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.09 min
Lab File: VD063207.D
Acq: 29 Jul 2019 18:56

Instrument :
MSVOA_D
ClientSampleID :
TP-3

Tot Ion: 56 Resp: 16500
Ion Ratio Lower Upper
56 100
69 219.9 24.5 36.7#
84 105.6 64.9 97.3#

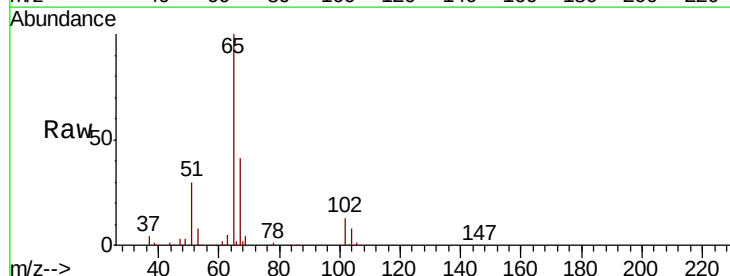


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

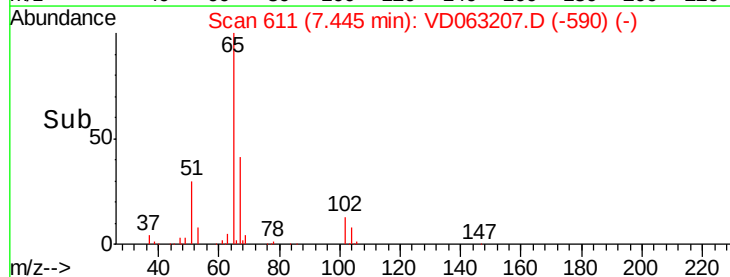
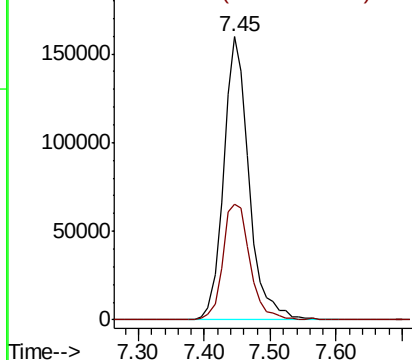


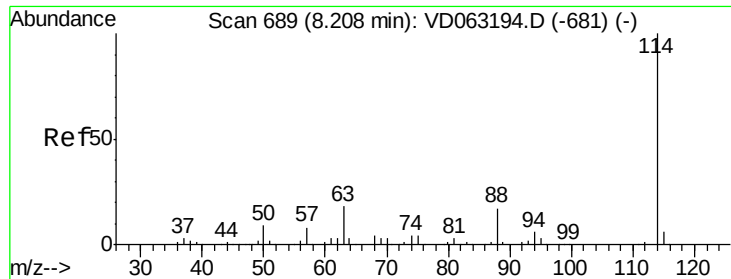
#33
1,2-Dichloroethane-d4
Concen: 51.155 ug/l
RT: 7.45 min Scan# 611
Delta R.T. 0.01 min
Lab File: VD063207.D
Acq: 29 Jul 2019 18:56

Tgt Ion: 65 Resp: 428709
Ion Ratio Lower Upper
65 100
67 41.1 0.0 85.8



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

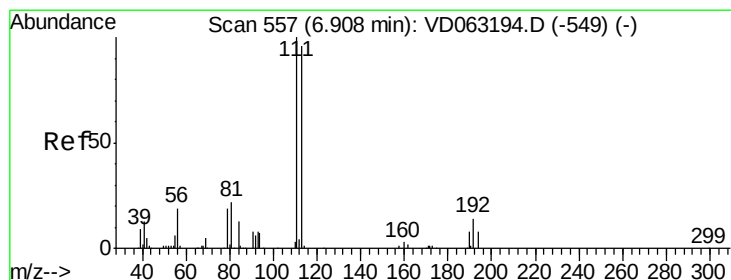
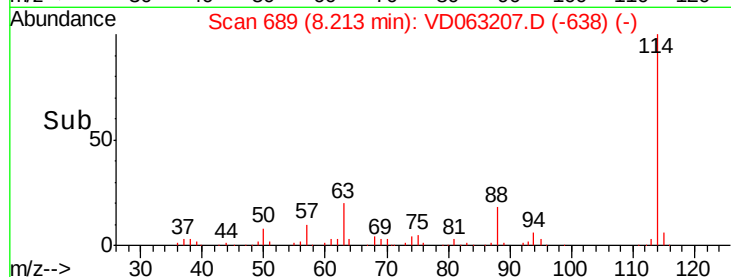
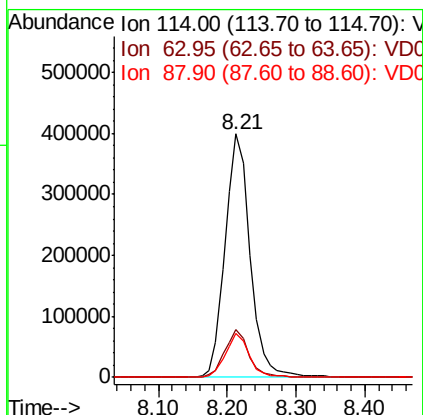
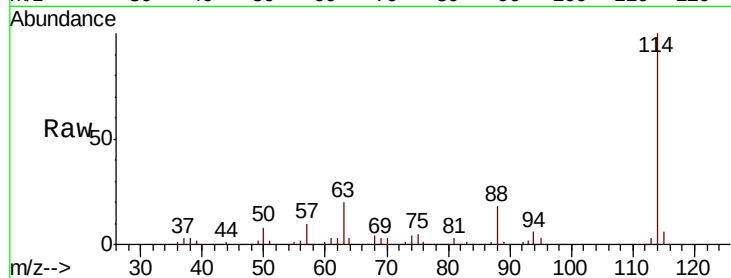




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.01 min
 Lab File: VD063207.D
 Acq: 29 Jul 2019 18:56

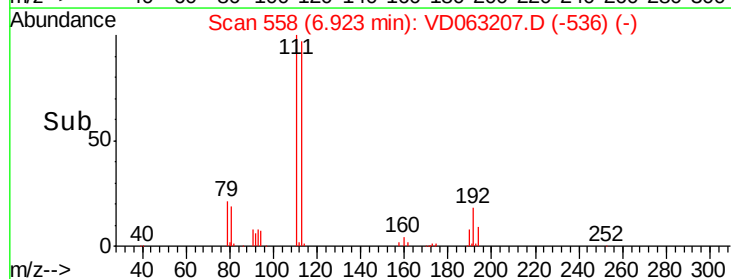
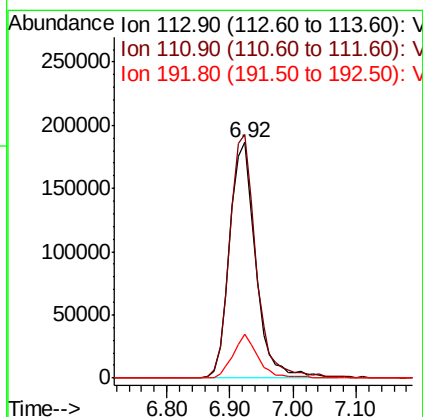
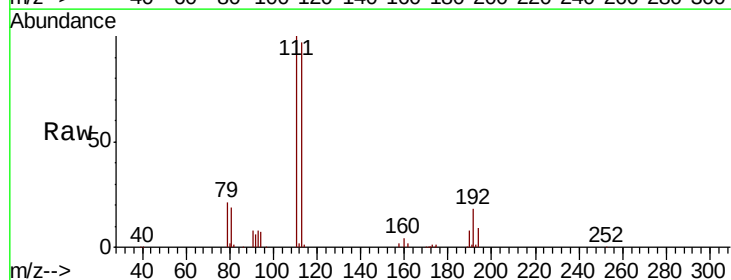
Instrument :
 MSVOA_D
 ClientSampleId :
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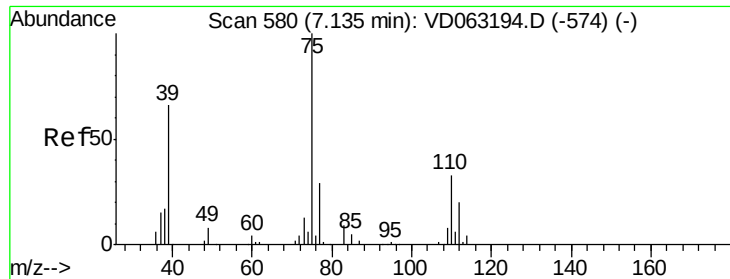
Tot Ion:114 Resp: 1007321
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 35.2
 88 18.1 0.0 34.6



#35
 Dibromofluoromethane
 Concen: 61.954 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.02 min
 Lab File: VD063207.D
 Acq: 29 Jul 2019 18:56

Tgt Ion:113 Resp: 532829
 Ion Ratio Lower Upper
 113 100
 111 103.5 83.2 124.8
 192 18.7 11.8 17.8#

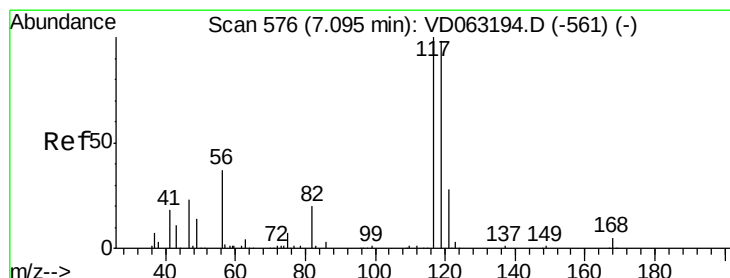
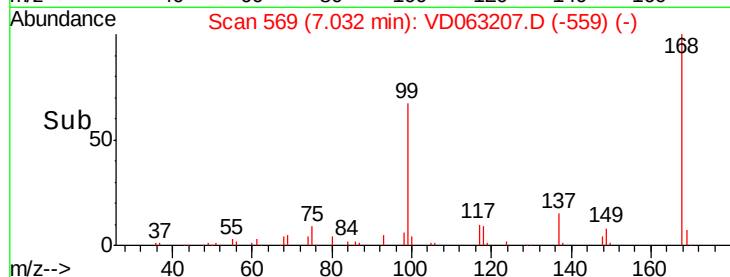
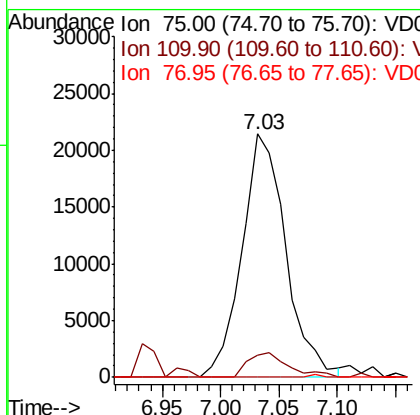
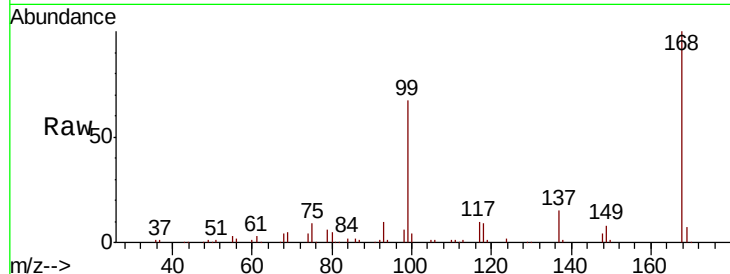




#36
 1,1-Dichloropropene
 Concen: 6.088 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.10 min
 Lab File: VD063207.D
 Acq: 29 Jul 2019 18:56

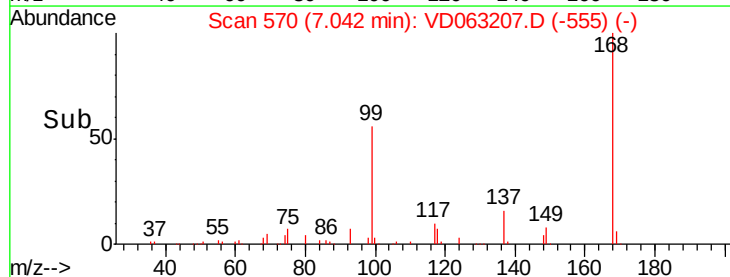
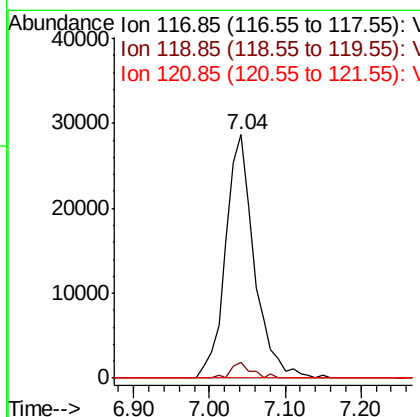
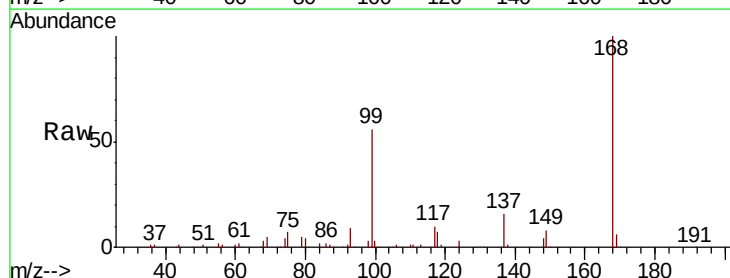
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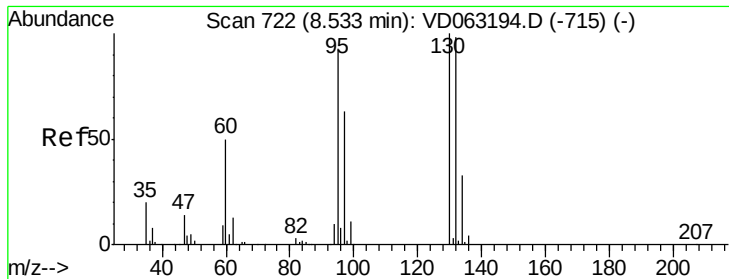
Tot Ion	75	Resp	55966
Ion Ratio	Lower	Upper	
75	100		
110	9.1	16.1	48.2#
77	0.0	22.7	34.1#



#38
 Carbon Tetrachloride
 Concen: 5.436 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.05 min
 Lab File: VD063207.D
 Acq: 29 Jul 2019 18:56

Tgt Ion	117	Resp	75230
Ion Ratio	Lower	Upper	
117	100		
119	6.6	78.2	117.2#
121	0.0	22.1	33.1#





#44

Trichloroethene

Concen: 1.456 ug/l

RT: 8.54 min Scan# 722

Delta R.T. 0.01 min

Lab File: VD063207.D

Acq: 29 Jul 2019 18:56

Instrument :

MSVOA_D

ClientSampleId :

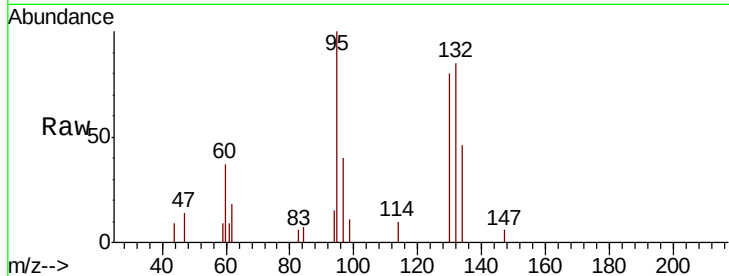
TP-3

Tot Ion:130 Resp: 11367

Ion Ratio Lower Upper

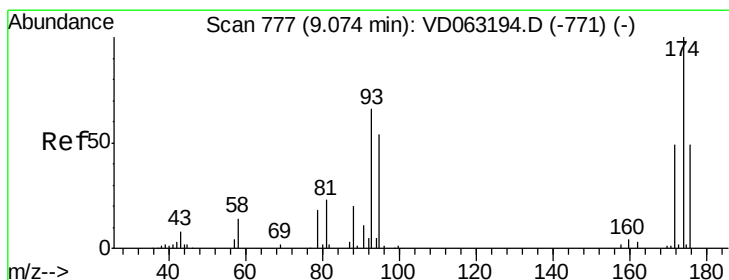
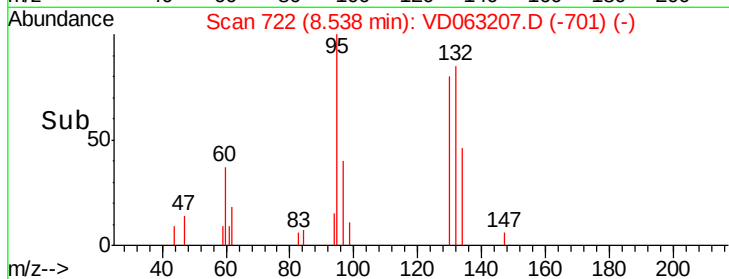
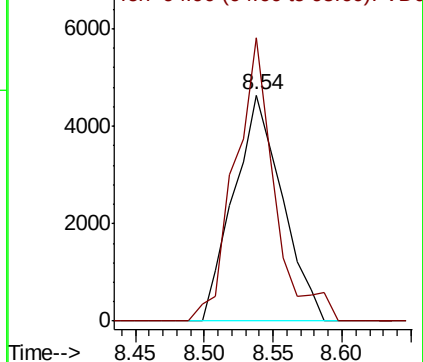
130 100

95 125.3 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC



#49

1,4-Dioxane

Concen: 2.691 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.30 min

Lab File: VD063207.D

Acq: 29 Jul 2019 18:56

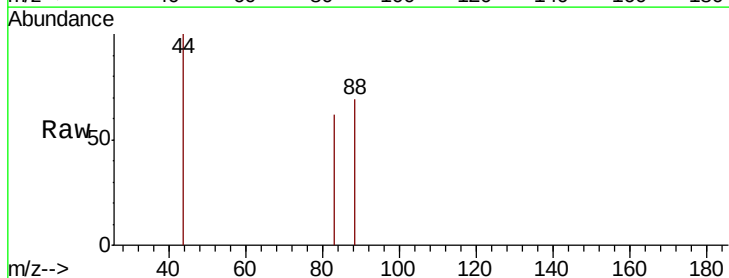
Tgt Ion: 88 Resp: 197

Ion Ratio Lower Upper

88 100

43 145.5 30.7 46.1#

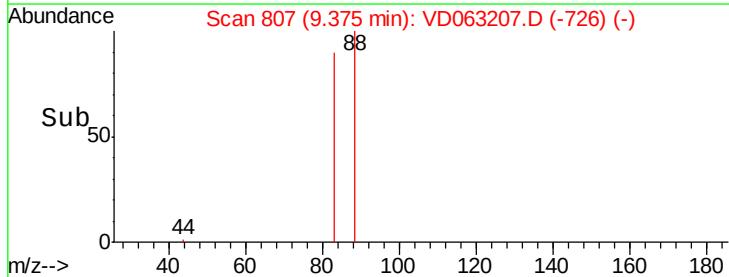
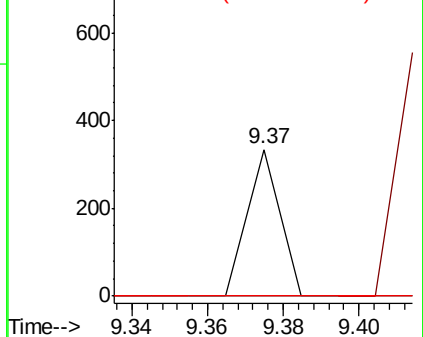
58 0.0 56.5 84.7#

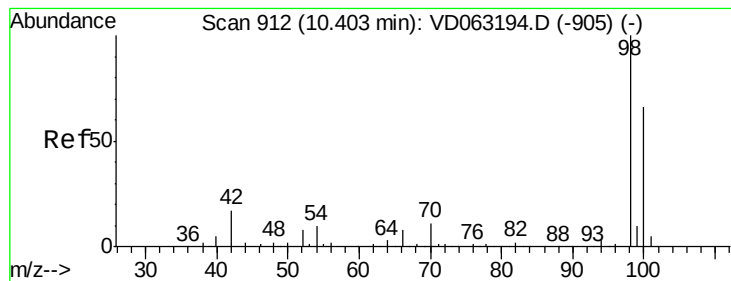


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 60.314 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.01 min

Lab File: VD063207.D

Acq: 29 Jul 2019 18:56

Instrument :

MSVOA_D

ClientSampled :

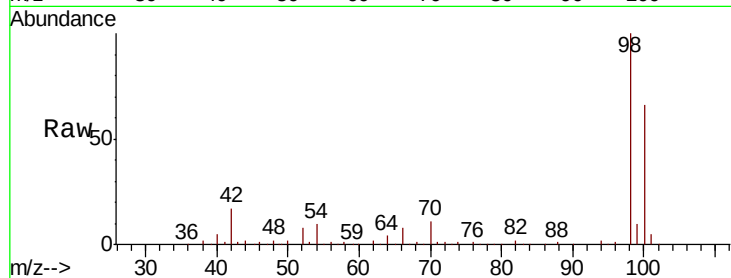
TP-3

Tot Ion: 98 Resp: 1160891

Ion Ratio Lower Upper

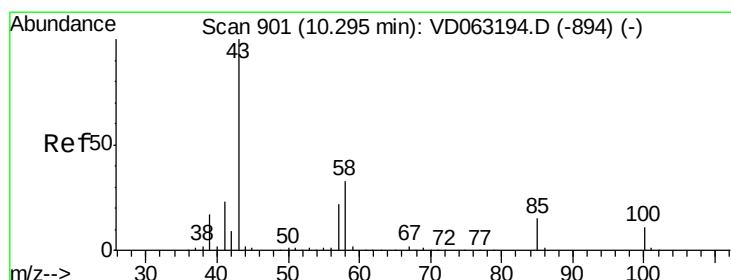
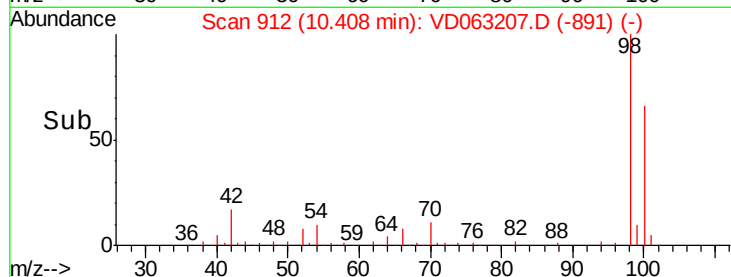
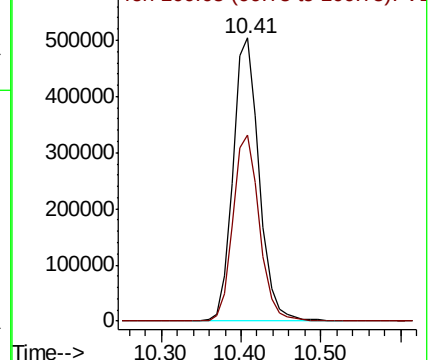
98 100

100 65.6 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#51

4-Methyl-2-Pentanone

Concen: 2.095 ug/l

RT: 10.40 min Scan# 911

Delta R.T. 0.10 min

Lab File: VD063207.D

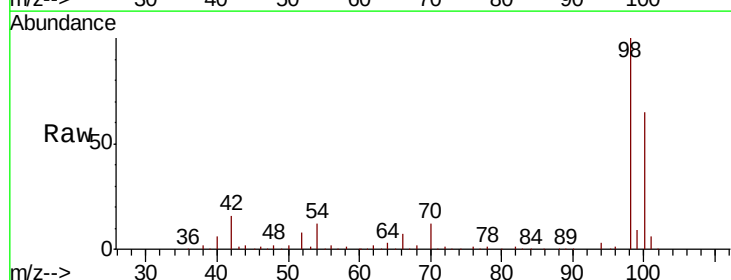
Acq: 29 Jul 2019 18:56

Tgt Ion: 43 Resp: 7516

Ion Ratio Lower Upper

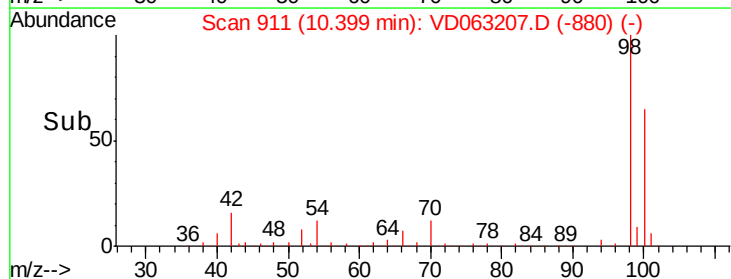
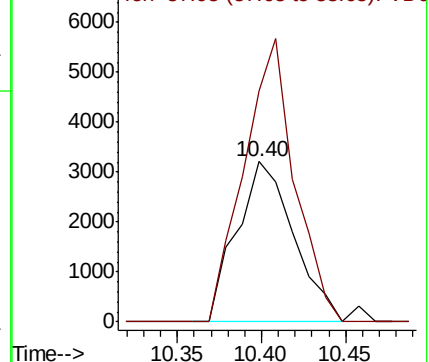
43 100

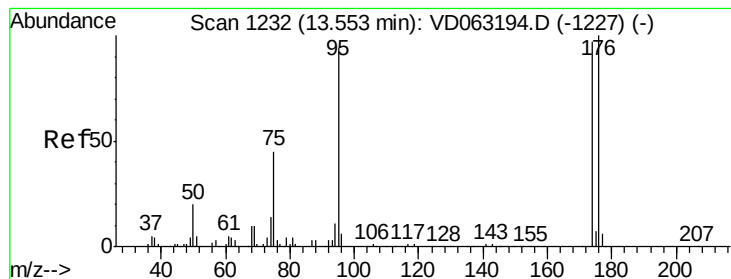
58 143.8 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 52.046 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD063207.D

Acq: 29 Jul 2019 18:56

Instrument :

MSVOA_D

ClientSampled :

TP-3

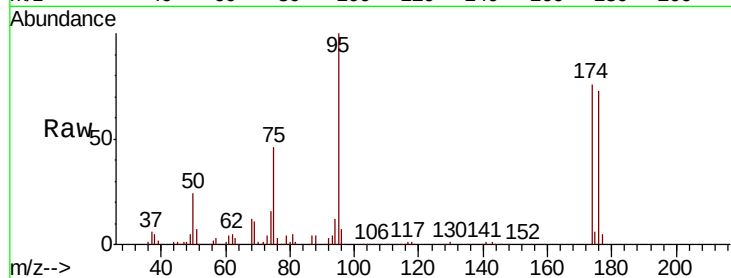
Tot Ion: 95 Resp: 456497

Ion Ratio Lower Upper

95 100

174 75.5 0.0 205.4

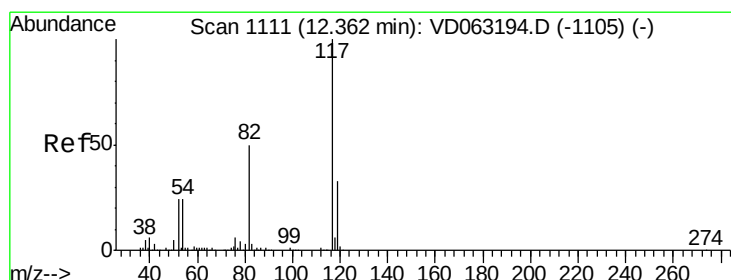
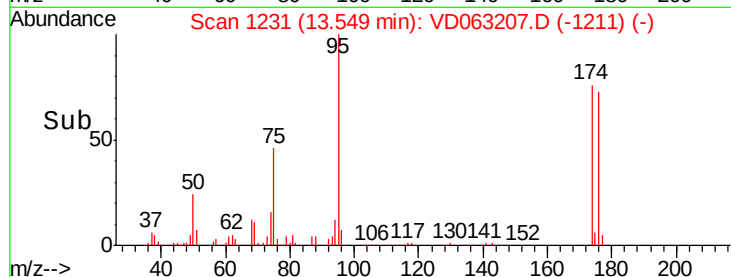
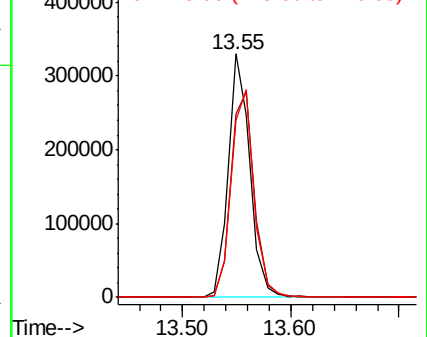
176 72.6 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VD063207.D

Acq: 29 Jul 2019 18:56

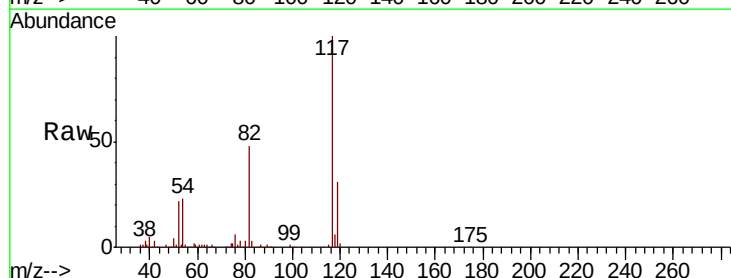
Tgt Ion: 117 Resp: 768274

Ion Ratio Lower Upper

117 100

82 47.8 40.1 60.1

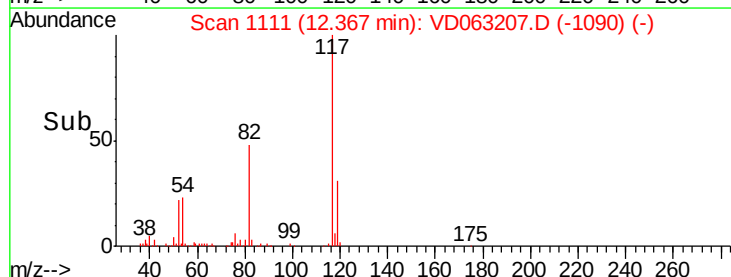
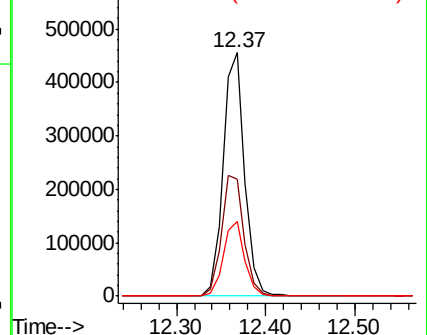
119 30.8 26.5 39.7

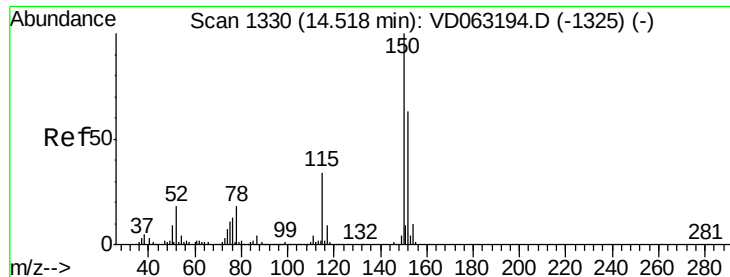


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.51 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD063207.D

Acq: 29 Jul 2019 18:56

Instrument :

MSVOA_D

ClientSampleId :

TP-3

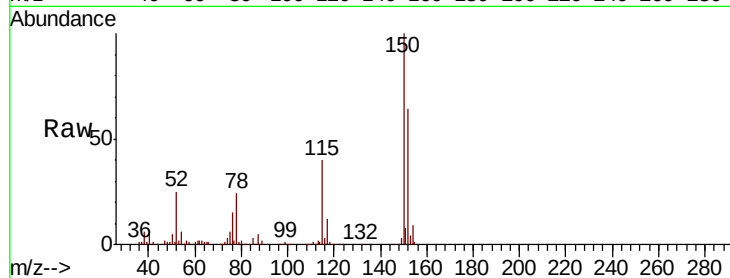
Tot Ion:152 Resp: 382144

Ion Ratio Lower Upper

152 100

115 62.2 27.5 82.4

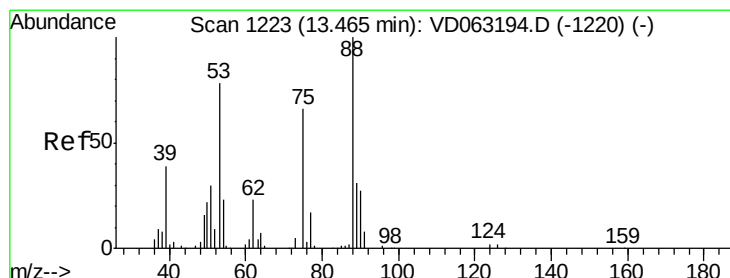
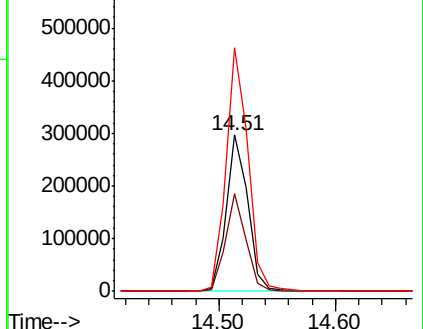
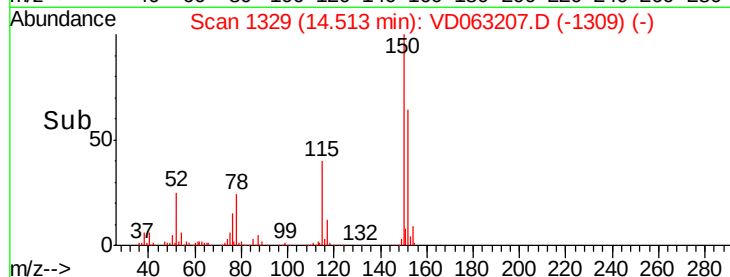
150 155.8 0.0 320.6



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: 164.777 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD063207.D

Acq: 29 Jul 2019 18:56

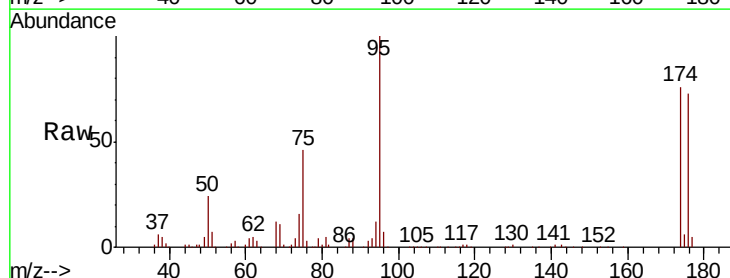
Tgt Ion: 75 Resp: 210018

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

