

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063147.D
 Acq On : 19 Jul 2019 11:54
 Operator : VA/AP
 Sample : VD0719SBL01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBL01

Quant Time: Jul 20 04:59:27 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	756375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1036729	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	870510	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	475448	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	428476	45.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.96%	
35) Dibromofluoromethane	6.92	113	455963	44.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.32%	
50) Toluene-d8	10.40	98	948928	42.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.56%	
62) 4-Bromofluorobenzene	13.55	95	455601	44.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.80%	

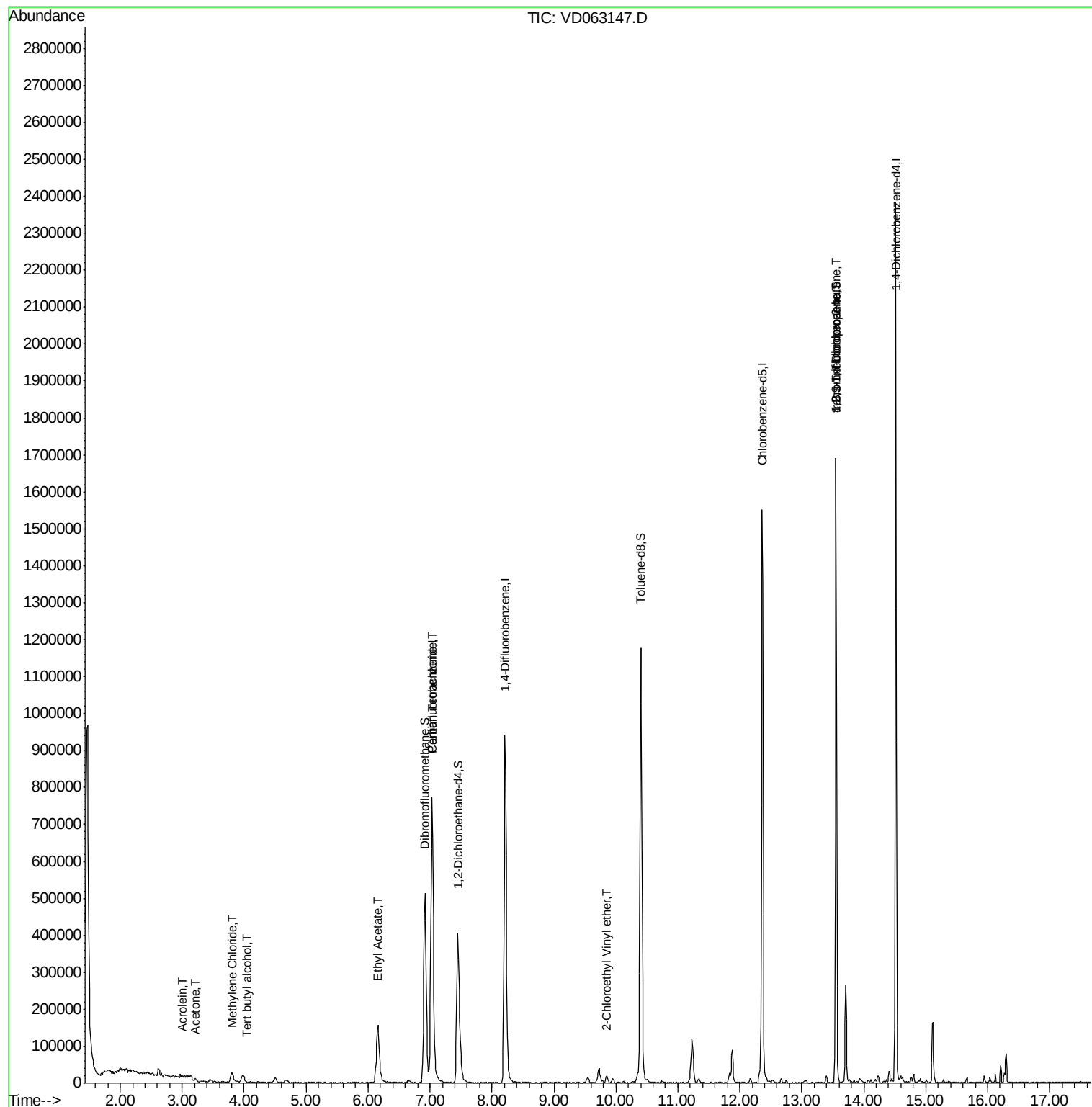
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	1264	Below Cal	#	43
3) Chloromethane	1.77	50	1637	Below Cal	#	48
5) Bromomethane	2.15	94	2931	Below Cal	#	53
11) Tert butyl alcohol	4.05	59	1935	3.559	ug/l #	77
13) Acrolein	3.02	56	1165	7.099	ug/l #	71
16) Acetone	3.22	43	14408	6.331	ug/l	96
18) Methyl Acetate	3.63	43	961	Below Cal	#	63
20) Methylene Chloride	3.81	84	15718	1.828	ug/l #	85
37) Ethyl Acetate	6.16	43	11647	2.334	ug/l #	1
38) Carbon Tetrachloride	7.04	117	74428	4.201	ug/l #	13
58) 2-Chloroethyl Vinyl ether	9.84	63	11812	3.369	ug/l #	85
76) 1,2,3-Trichloropropane	13.55	75	160293	21.917	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	211225	109.671	ug/l #	1

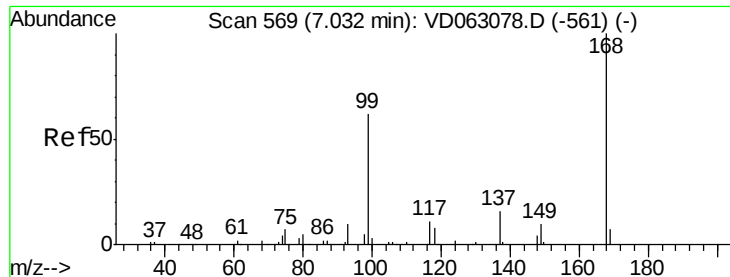
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VD063147.D

Acq: 19 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

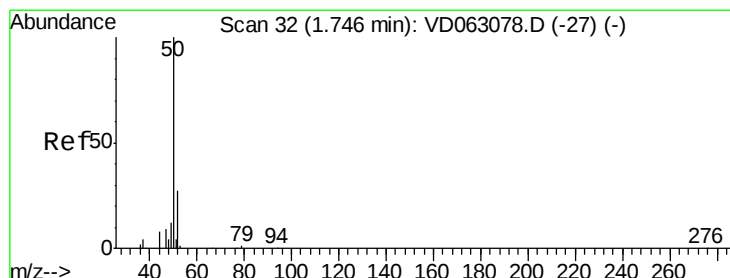
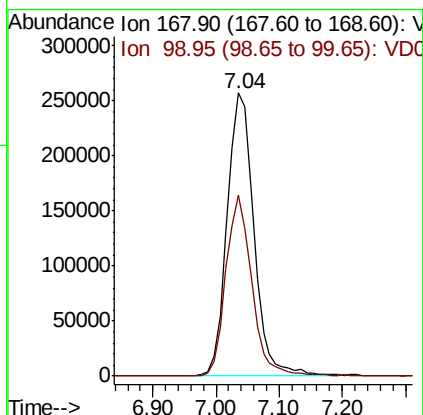
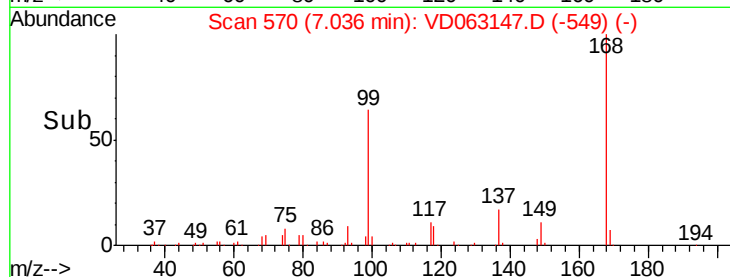
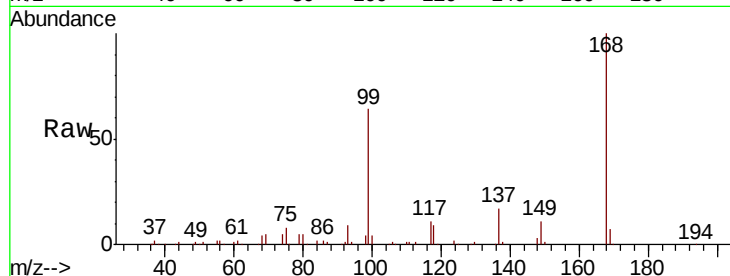
VD0719SBL01

Tot Ion:168 Resp: 756375

Ion Ratio Lower Upper

168 100

99 63.9 50.8 76.2



#3

Chloromethane

Concen: Below Cal

RT: 1.77 min Scan# 35

Delta R.T. 0.02 min

Lab File: VD063147.D

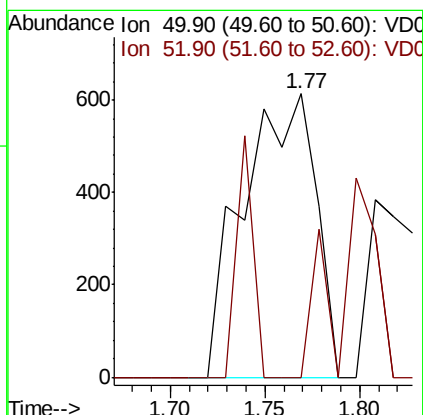
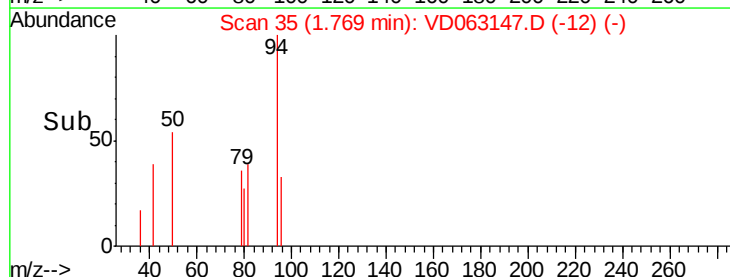
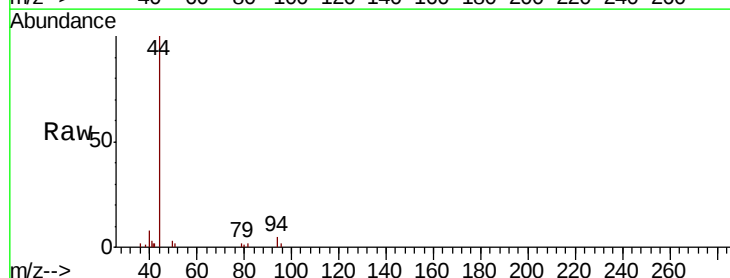
Acq: 19 Jul 2019 11:54

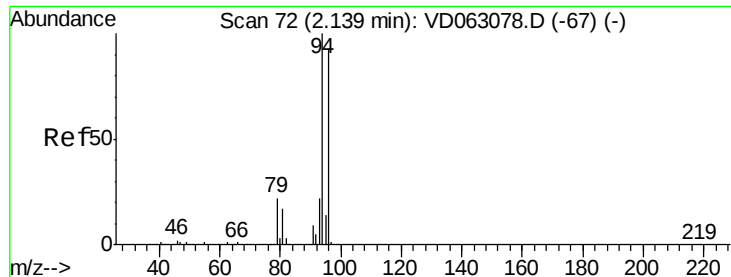
Tgt Ion: 50 Resp: 1637

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#





#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD063147.D

Acq: 19 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBL01

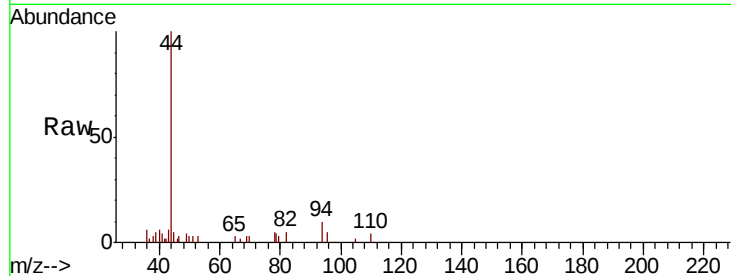
Tot Ion: 94 Resp: 2931

Ion Ratio Lower Upper

94 100

96 47.0 74.2 111.2#

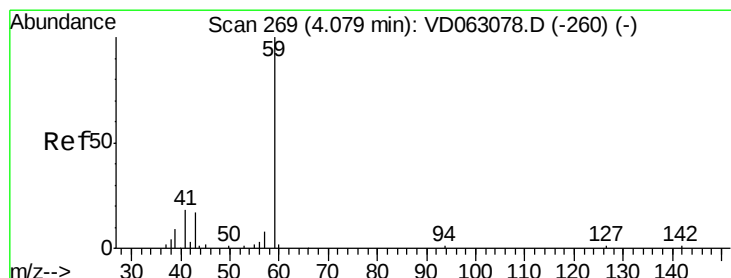
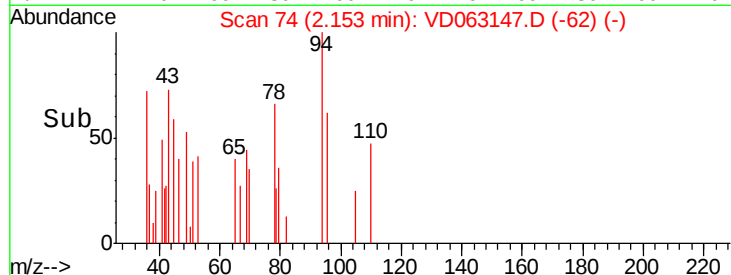
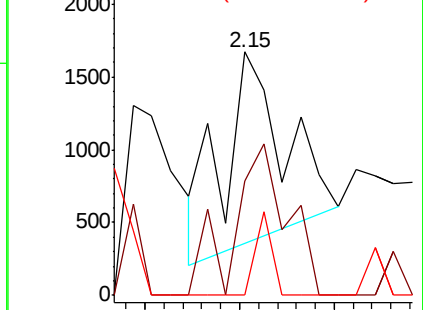
93 0.0 17.8 26.6#



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: 3.559 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.03 min

Lab File: VD063147.D

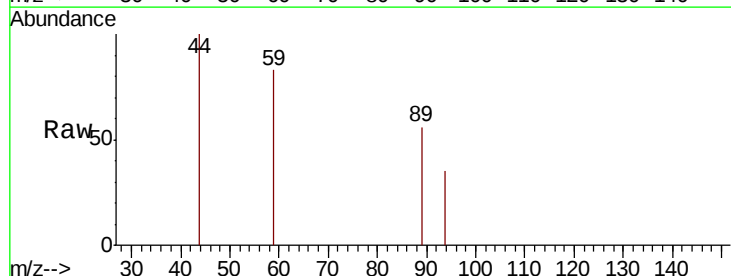
Acq: 19 Jul 2019 11:54

Tgt Ion: 59 Resp: 1935

Ion Ratio Lower Upper

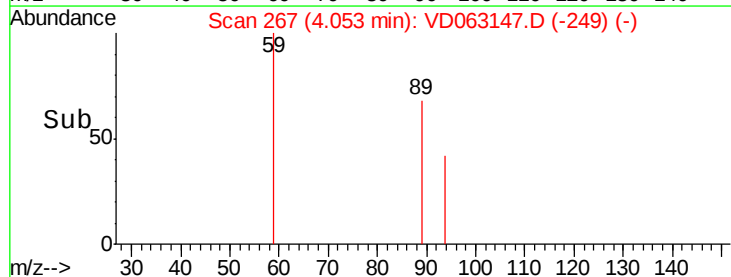
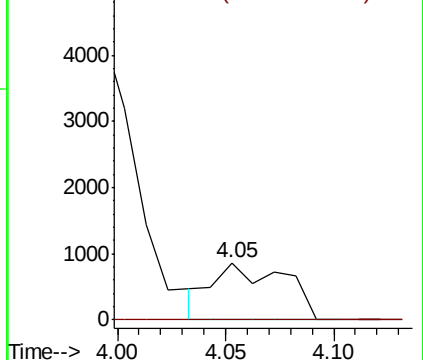
59 100

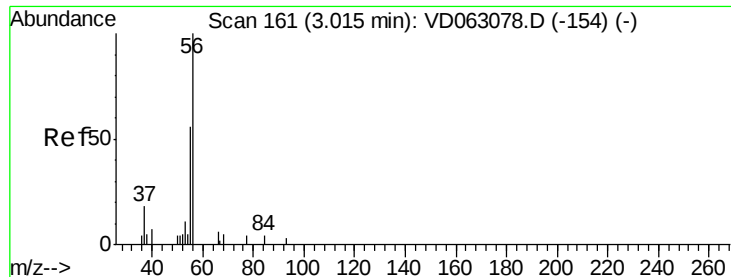
57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 7.099 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD063147.D

Acq: 19 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

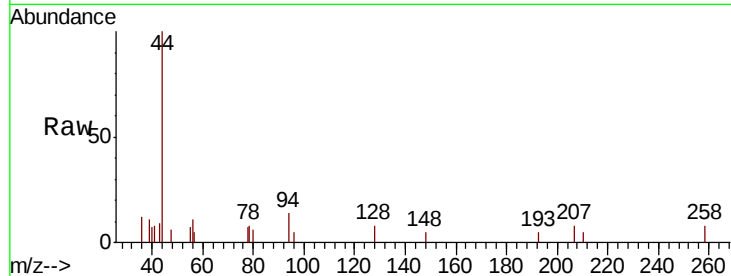
VD0719SBL01

Tot Ion: 56 Resp: 1165

Ion Ratio Lower Upper

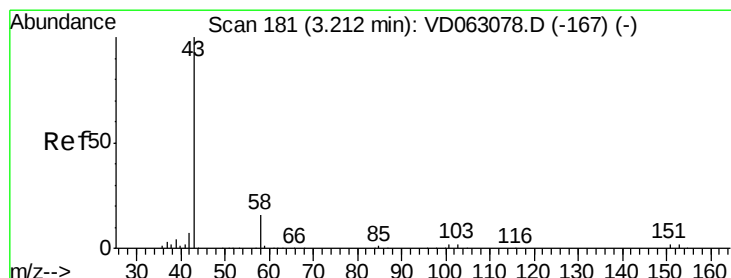
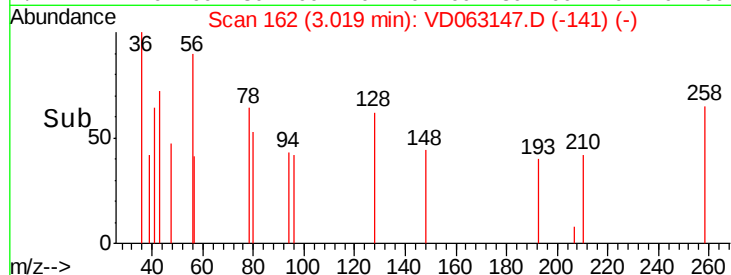
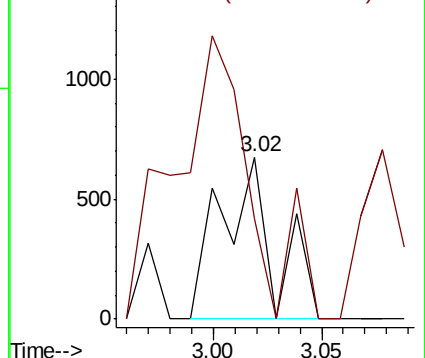
56 100

55 42.8 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: 6.331 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063147.D

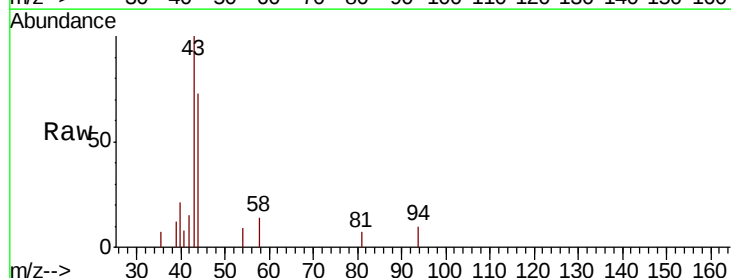
Acq: 19 Jul 2019 11:54

Tgt Ion: 43 Resp: 14408

Ion Ratio Lower Upper

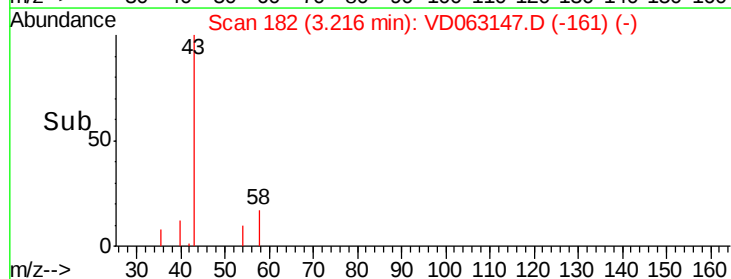
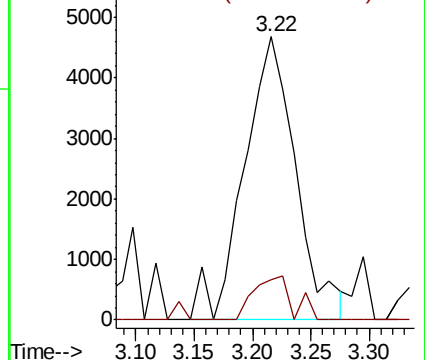
43 100

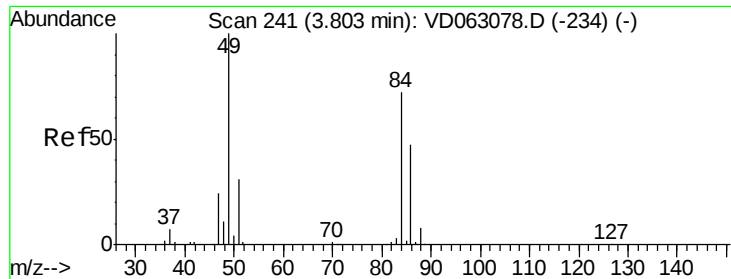
58 14.4 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

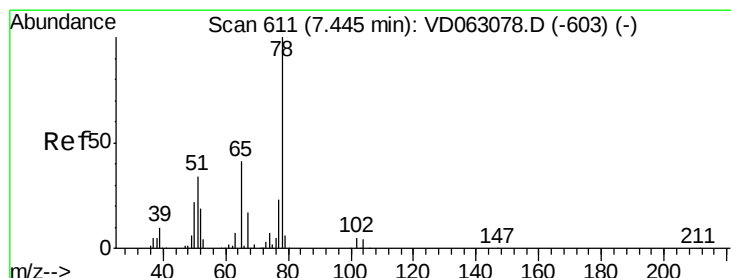
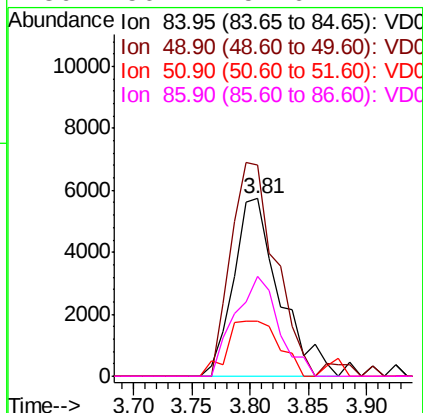
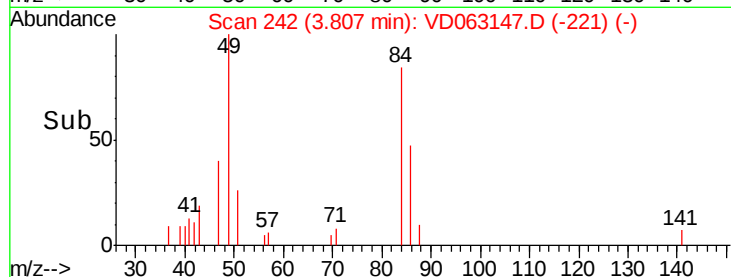
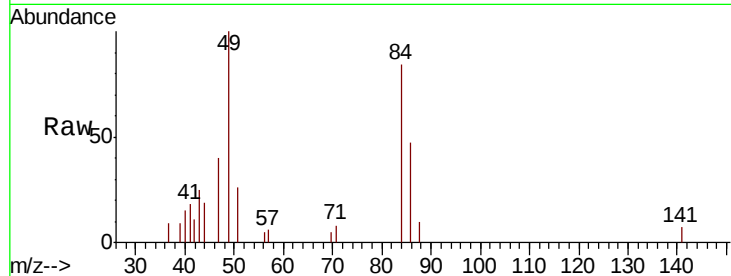




#20
Methvlene Chloride
Concen: 1.828 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD063147.D
Acq: 19 Jul 2019 11:54

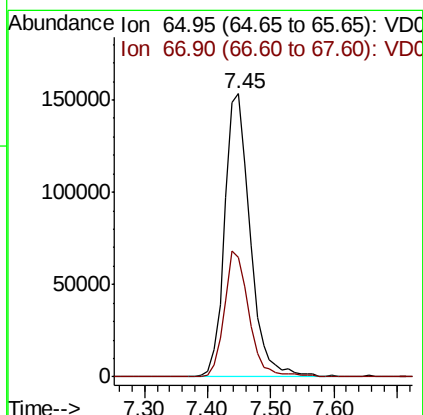
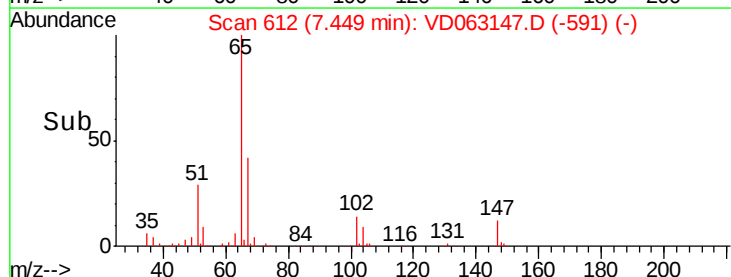
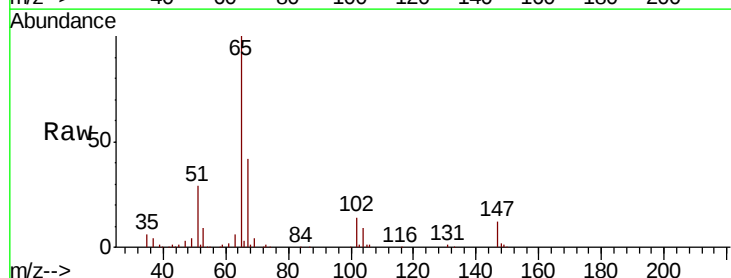
Instrument :
MSVOA_D
ClientSampleId :
VD0719SBL01

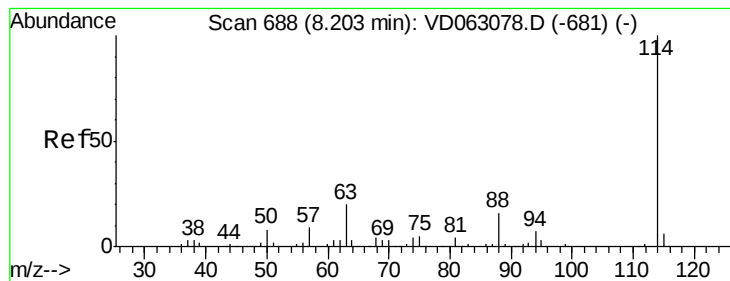
Tot Ion: 84 Resp: 15718
Ion Ratio Lower Upper
84 100
49 119.0 110.5 165.7
51 31.1 34.6 51.8#
86 56.4 51.6 77.4



#33
1,2-Dichloroethane-d4
Concen: 45.476 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.00 min
Lab File: VD063147.D
Acq: 19 Jul 2019 11:54

Tgt Ion: 65 Resp: 428476
Ion Ratio Lower Upper
65 100
67 42.4 0.0 86.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063147.D

Acq: 19 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBL01

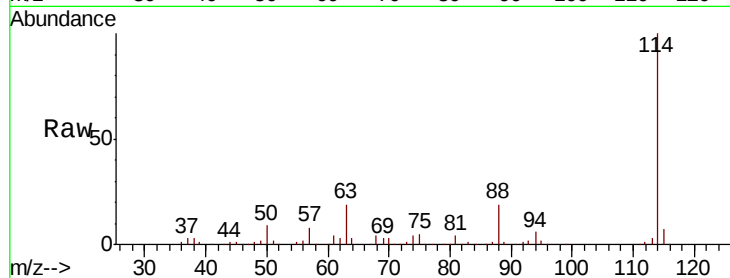
Tot Ion:114 Resp: 1036729

Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.6

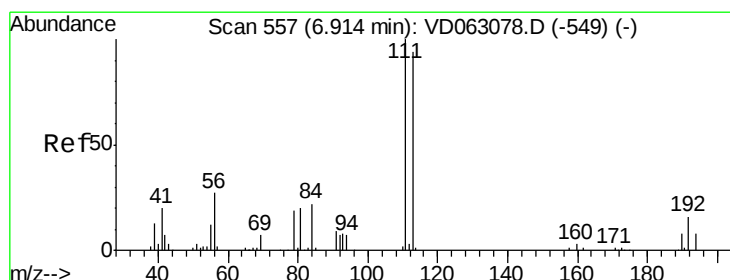
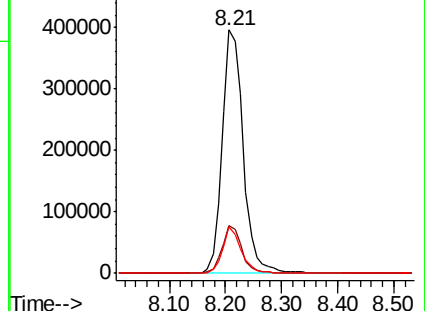
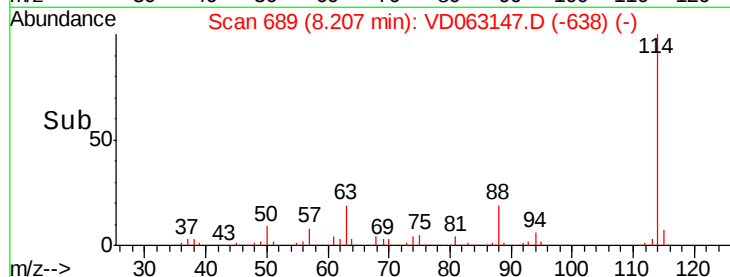
88 19.3 0.0 32.6



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



#35

Dibromofluoromethane

Concen: 44.156 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063147.D

Acq: 19 Jul 2019 11:54

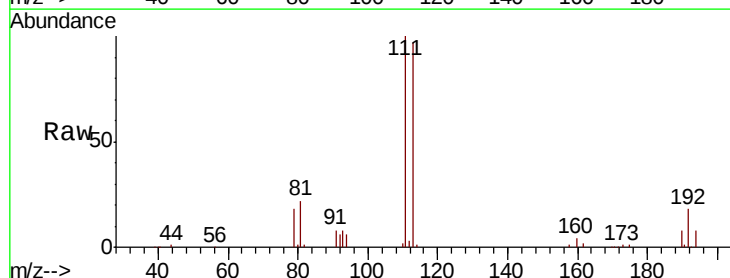
Tgt Ion:113 Resp: 455963

Ion Ratio Lower Upper

113 100

111 102.9 84.8 127.2

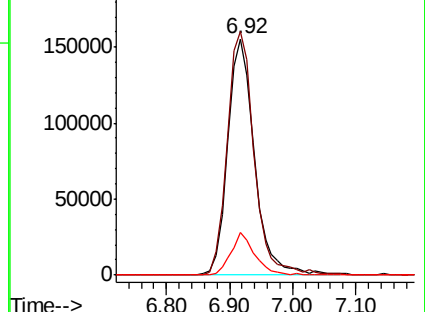
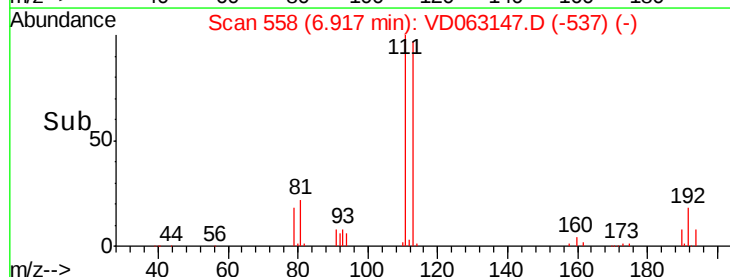
192 18.3 13.4 20.0

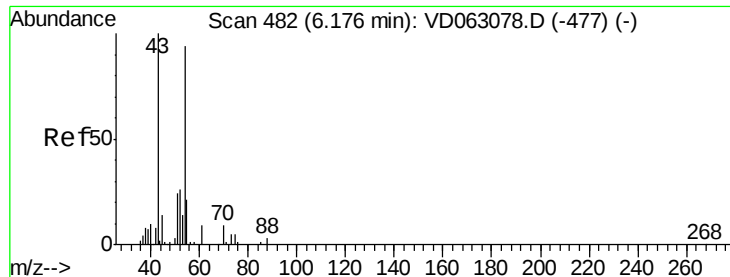


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#37

Ethyl Acetate

Concen: 2.334 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.02 min

Lab File: VD063147.D

Acq: 19 Jul 2019 11:54

Instrument :

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VD0719SBL01

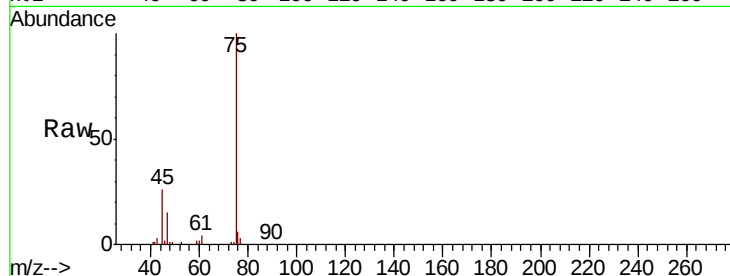
Tot Ion: 43 Resp: 11647

Ion Ratio Lower Upper

43 100

61 124.4 10.6 16.0#

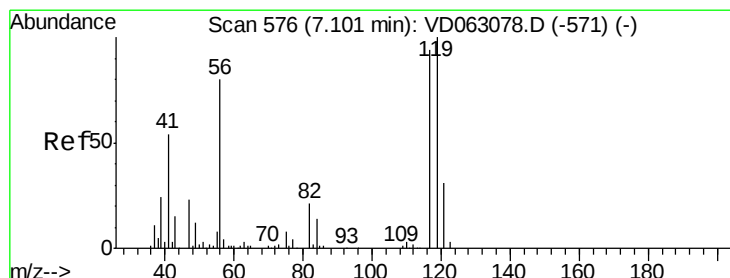
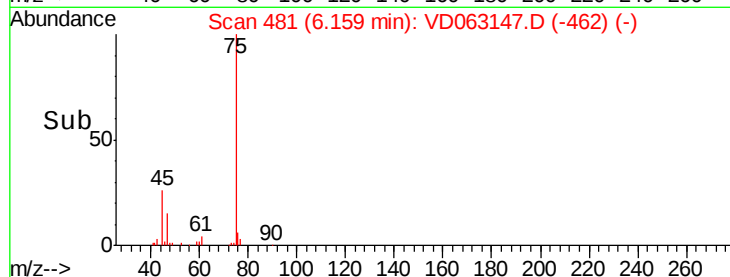
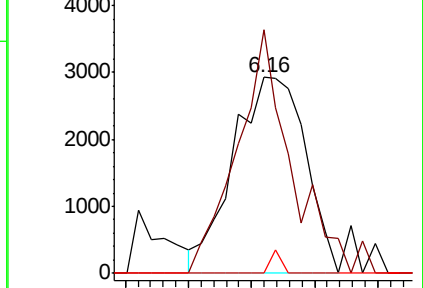
70 0.0 6.6 9.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 4.201 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.07 min

Lab File: VD063147.D

Acq: 19 Jul 2019 11:54

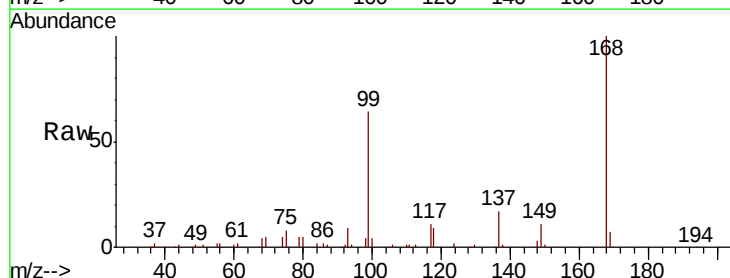
Tgt Ion: 117 Resp: 74428

Ion Ratio Lower Upper

117 100

119 3.1 80.0 120.0#

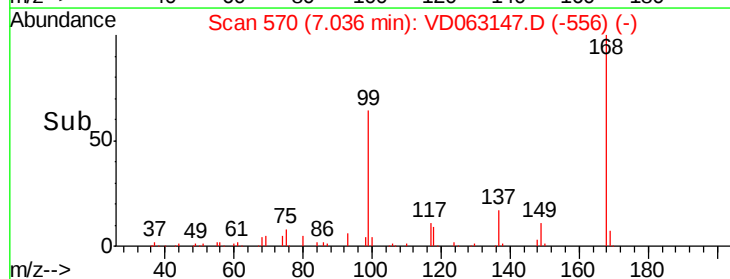
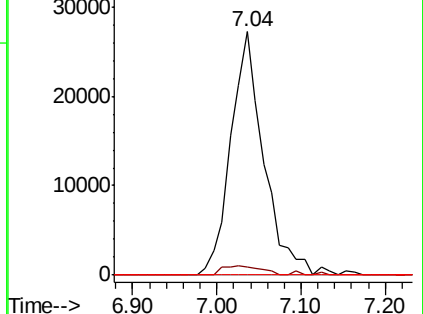
121 0.0 25.0 37.4#

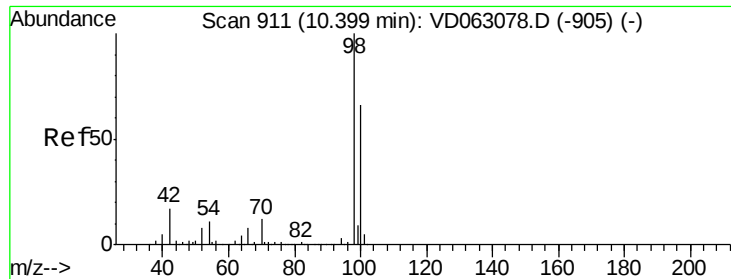


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

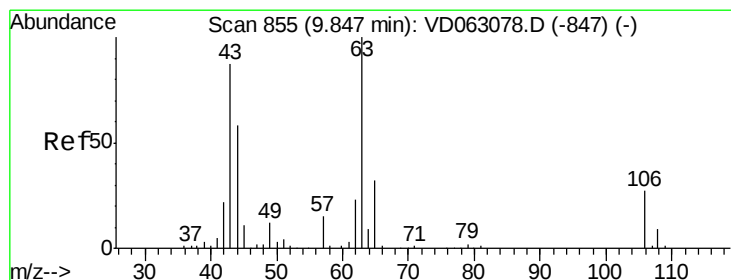
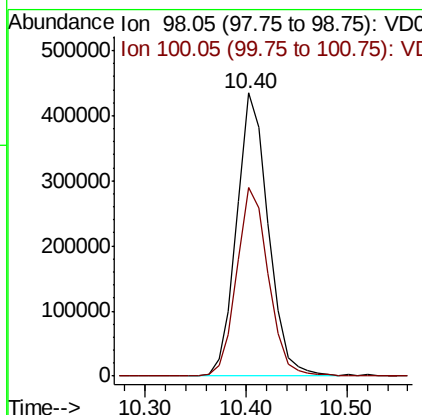
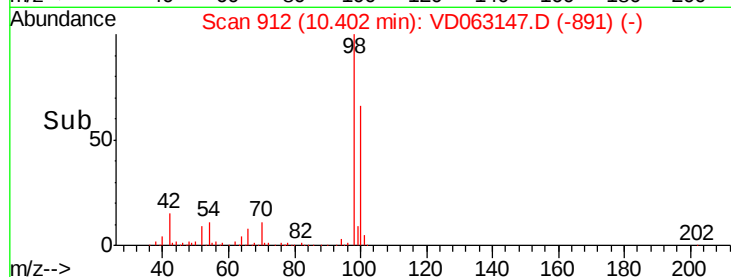
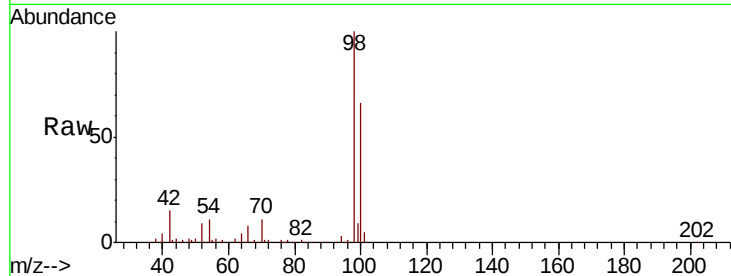




#50
Toluene-d8
Concen: 42.782 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063147.D
Acq: 19 Jul 2019 11:54

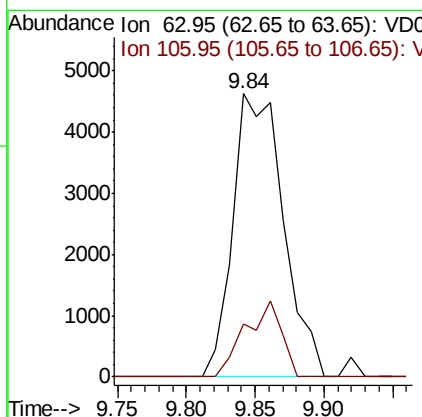
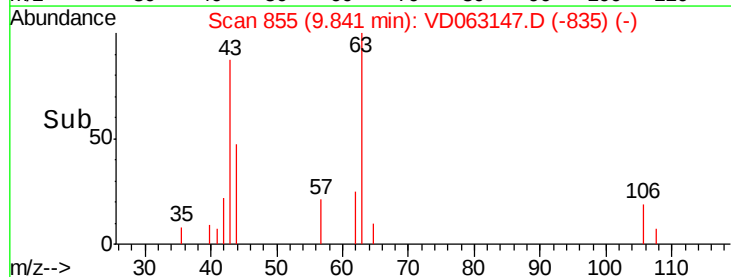
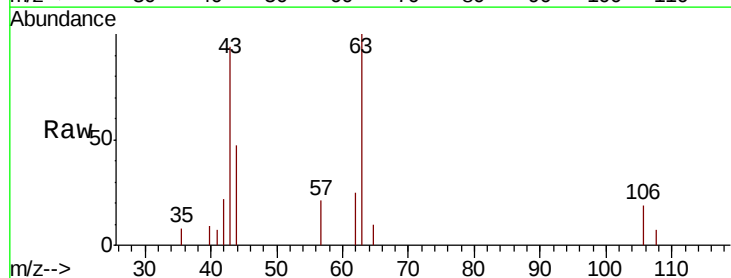
Instrument :
MSVOA_D
ClientSampleId :
VD0719SBL01

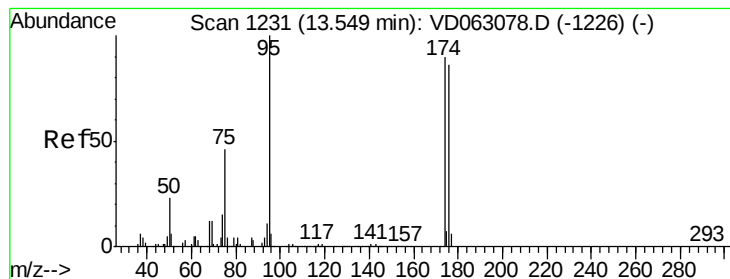
Tot Ion: 98 Resp: 948928
Ion Ratio Lower Upper
98 100
100 66.4 53.5 80.3



#58
2-Chloroethyl Vinyl ether
Concen: 3.369 ug/l
RT: 9.84 min Scan# 855
Delta R.T. -0.01 min
Lab File: VD063147.D
Acq: 19 Jul 2019 11:54

Tgt Ion: 63 Resp: 11812
Ion Ratio Lower Upper
63 100
106 18.7 21.3 31.9#





#62

4-Bromofluorobenzene

Concen: 44.399 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063147.D

Acq: 19 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBL01

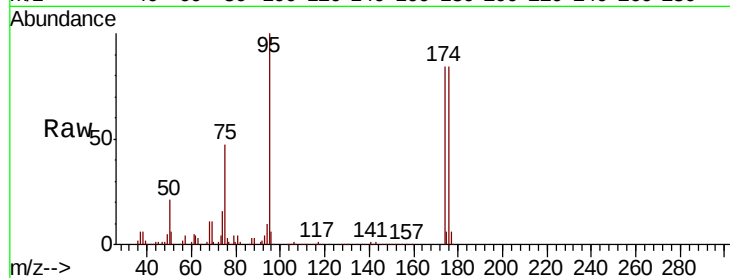
Tot Ion: 95 Resp: 455601

Ion Ratio Lower Upper

95 100

174 84.1 0.0 180.6

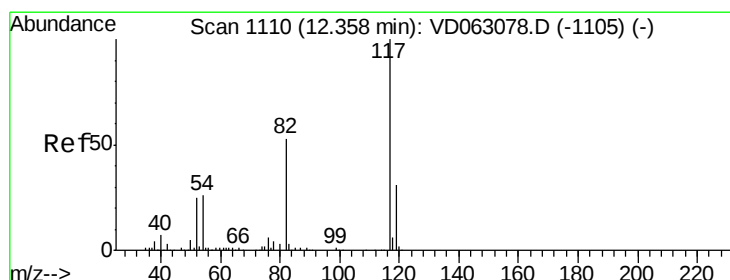
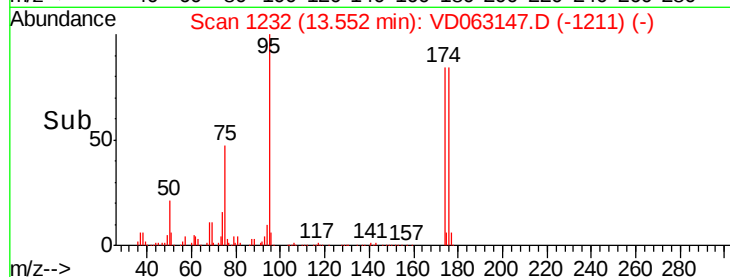
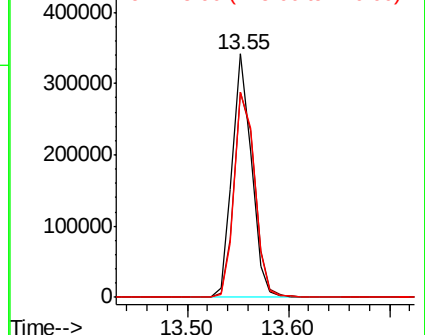
176 84.3 0.0 172.2



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: 12.36 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD063147.D

Acq: 19 Jul 2019 11:54

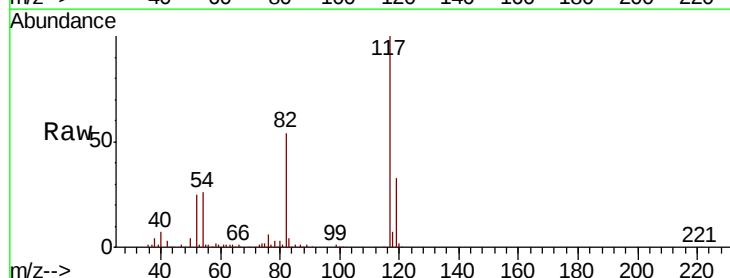
Tgt Ion: 117 Resp: 870510

Ion Ratio Lower Upper

117 100

82 54.0 42.3 63.5

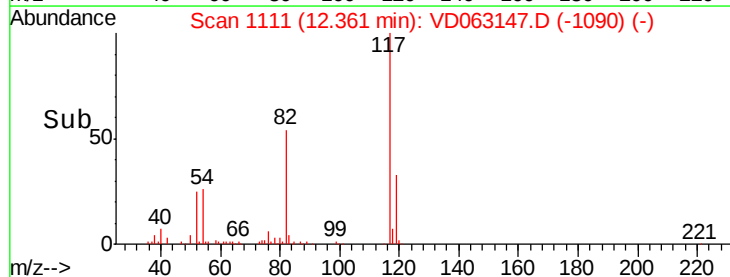
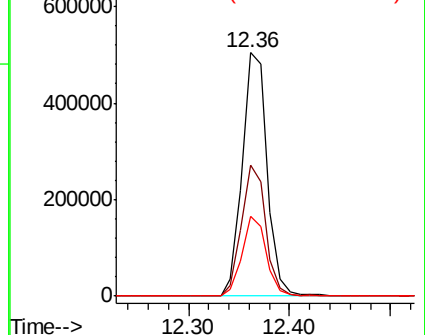
119 32.8 25.2 37.8

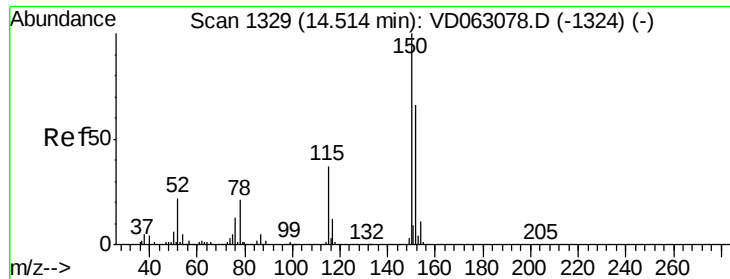


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD063147.D

Acq: 19 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBL01

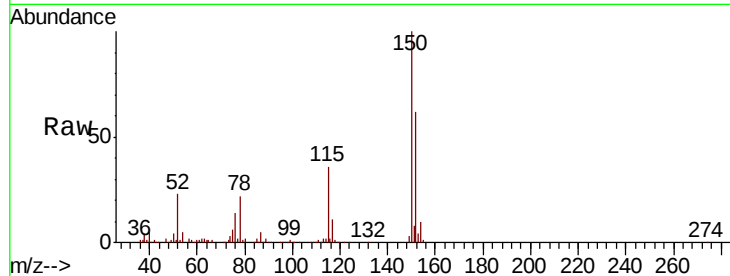
Tot Ion:152 Resp: 475448

Ion Ratio Lower Upper

152 100

115 58.5 28.9 86.8

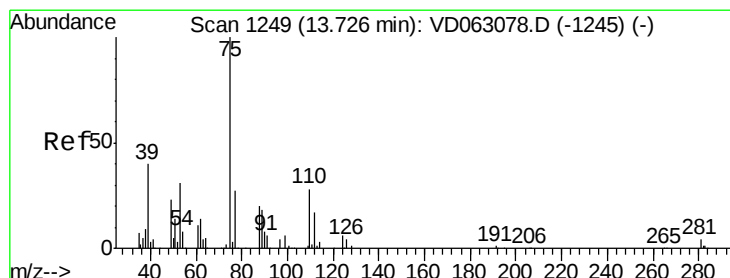
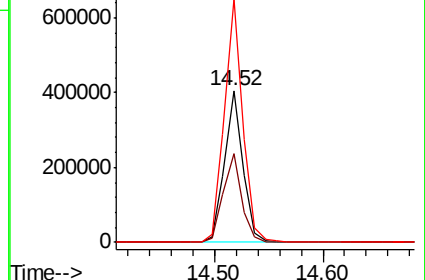
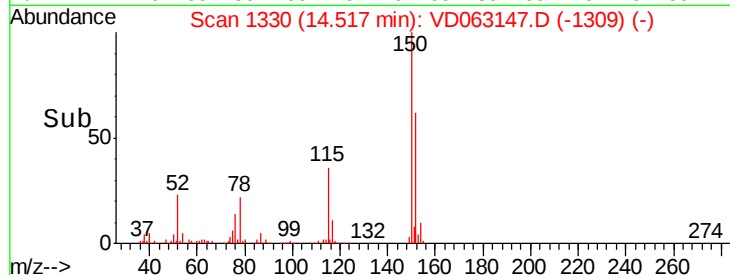
150 160.6 0.0 313.8



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



#76

1,2,3-Trichloropropane

Concen: 21.917 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063147.D

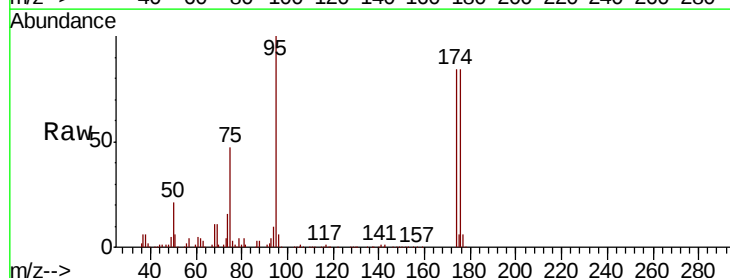
Acq: 19 Jul 2019 11:54

Tgt Ion: 75 Resp: 160293

Ion Ratio Lower Upper

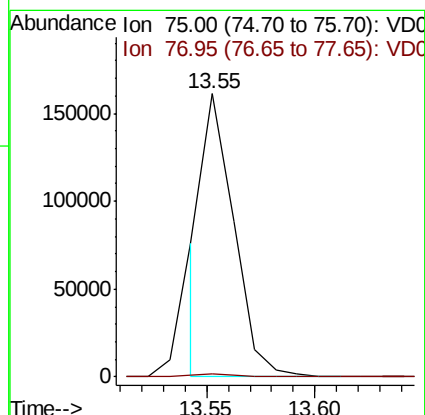
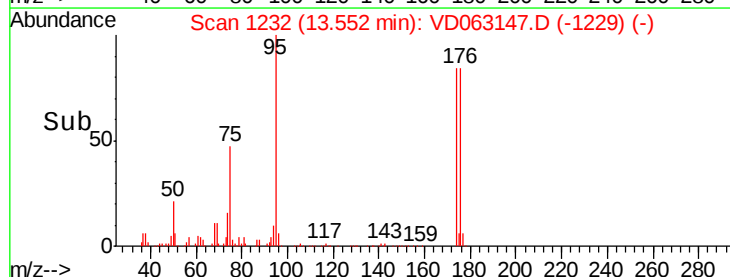
75 100

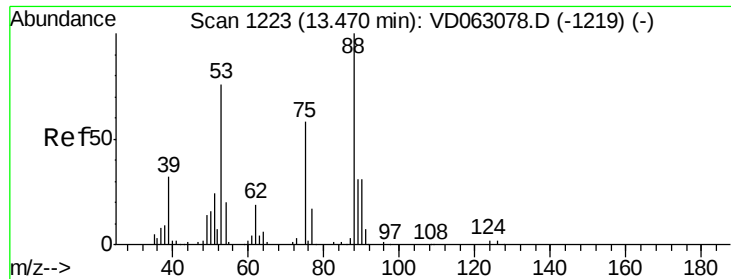
77 1.1 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 109.671 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063147.D

Acq: 19 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBL01

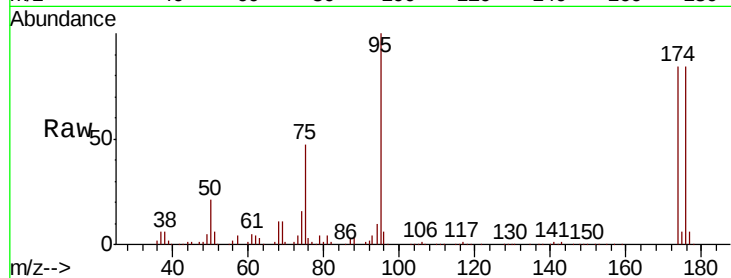
Tot Ion: 75 Resp: 211225

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

