

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082119\
 Data File : VD063726.D
 Acq On : 21 Aug 2019 21:19
 Operator : JC/SY
 Sample : K4388-17RE
 Misc : 5.60g/5ml/MSVOA_D/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T6-E1-(0)RE

Quant Time: Aug 22 01:29:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	52793	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	83769	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	70139	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	34061	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	67582	119.76	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	239.52%	
35) Dibromofluoromethane	6.91	113	52499	74.41	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	148.82%	
50) Toluene-d8	10.40	98	86325	55.65	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	111.30%	
62) 4-Bromofluorobenzene	13.55	95	39187	55.74	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.48%	

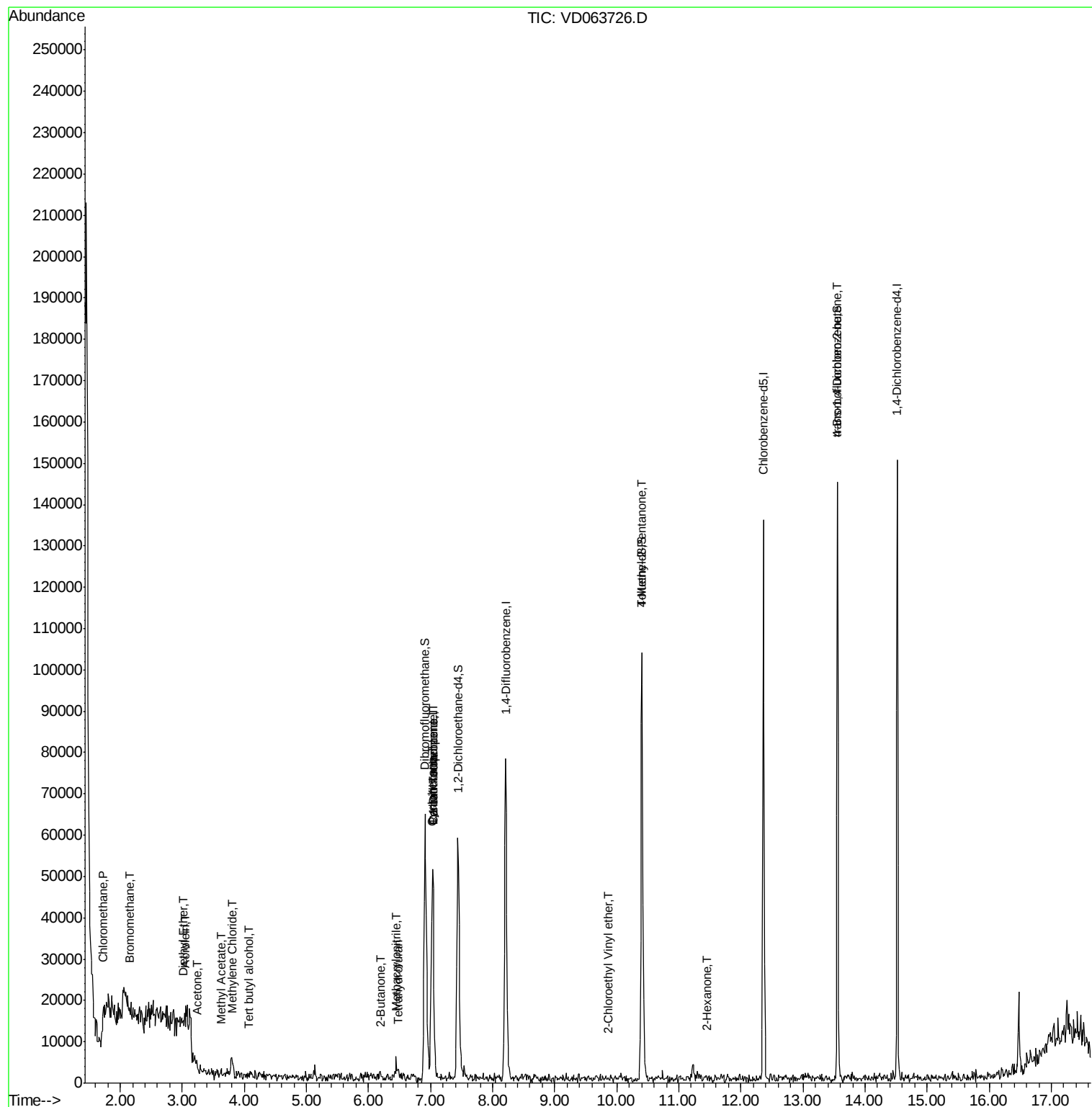
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.72	50	905	1.814	ug/l #	41
5) Bromomethane	2.14	94	2394	10.242	ug/l #	11
8) Diethyl Ether	3.01	74	381	2.777	ug/l	72
11) Tert butyl alcohol	4.06	59	276	11.235	ug/l #	71
13) Acrolein	3.03	56	203	8.395	ug/l #	35
16) Acetone	3.24	43	705	6.146	ug/l #	65
18) Methyl Acetate	3.64	43	1022	4.704	ug/l #	57
20) Methylene Chloride	3.80	84	3043	6.135	ug/l #	53
25) 2-Butanone	6.20	43	218	1.924	ug/l #	58
29) Tetrahydrofuran	6.47	42	2114	40.043	ug/l	88
31) Cyclohexane	7.02	56	1293	2.538	ug/l #	6
36) 1,1-Dichloropropene	7.04	75	3941	5.322	ug/l #	42
38) Carbon Tetrachloride	7.05	117	5812	5.208	ug/l #	13
41) Methacrylonitrile	6.45	41	2681	6.862	ug/l #	66
51) 4-Methyl-2-Pentanone	10.40	43	612	2.152	ug/l #	81
58) 2-Chloroethyl Vinyl ether	9.86	63	290	1.427	ug/l #	49
59) 2-Hexanone	11.46	43	223	1.078	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.55	75	15253	145.176	ug/l #	1

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Instrument :

MSVOA_D

ClientSampleId :

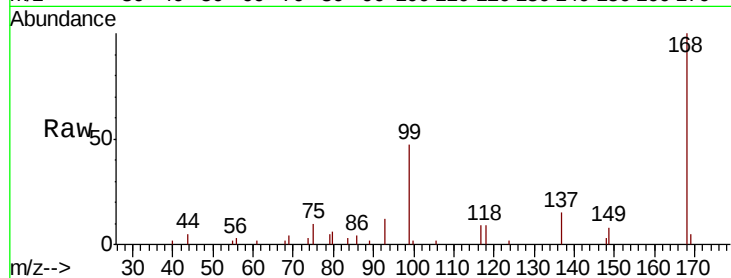
T6-E1-(0)RE

Tgt Ion:168 Resp: 52793

Ion Ratio Lower Upper

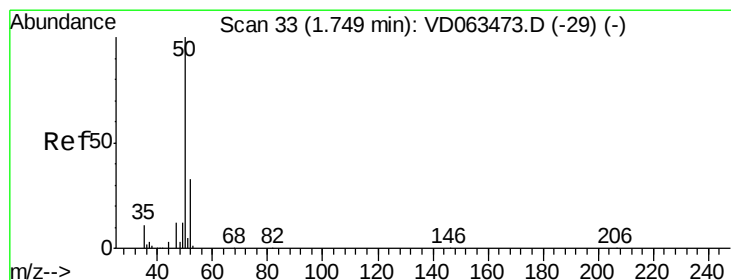
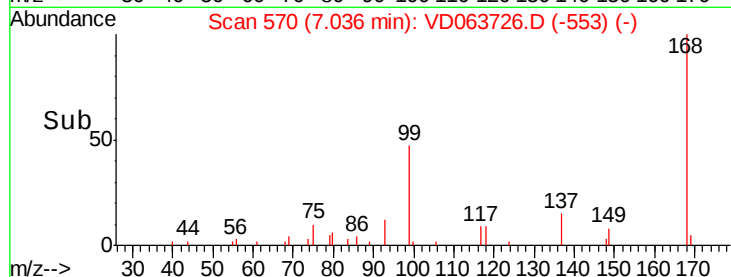
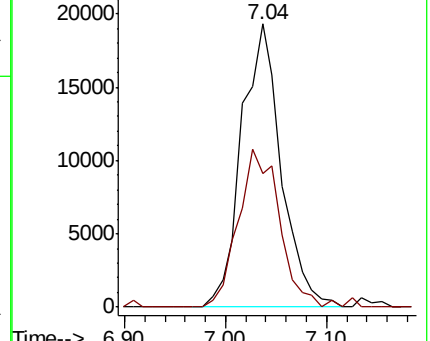
168 100

99 47.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.814 ug/l

RT: 1.72 min Scan# 30

Delta R.T. -0.03 min

Lab File: VD063726.D

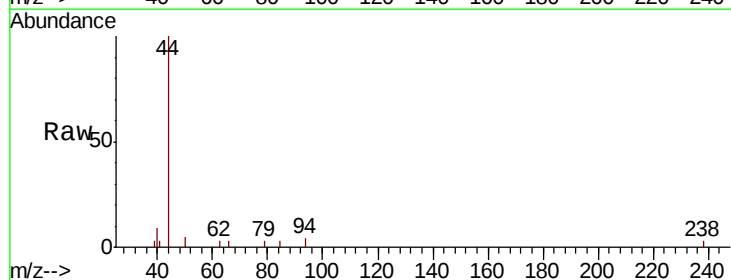
Acq: 21 Aug 2019 21:19

Tgt Ion: 50 Resp: 905

Ion Ratio Lower Upper

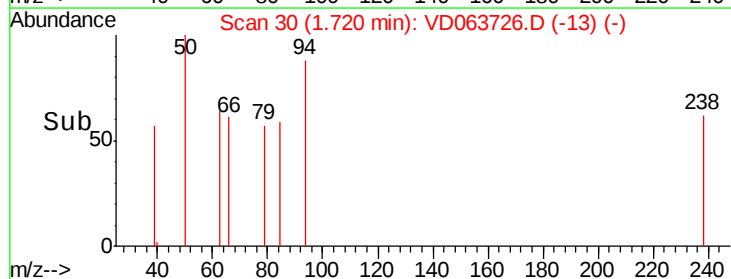
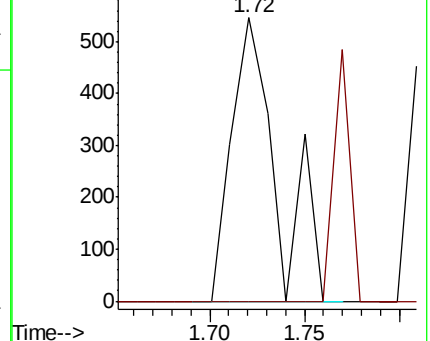
50 100

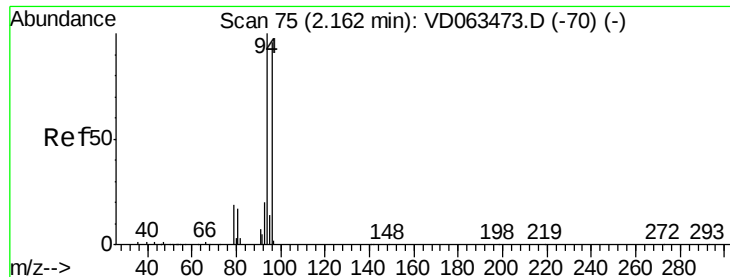
52 0.0 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 10.242 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.02 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Instrument :

MSVOA_D

ClientSampleId :

T6-E1-(0)RE

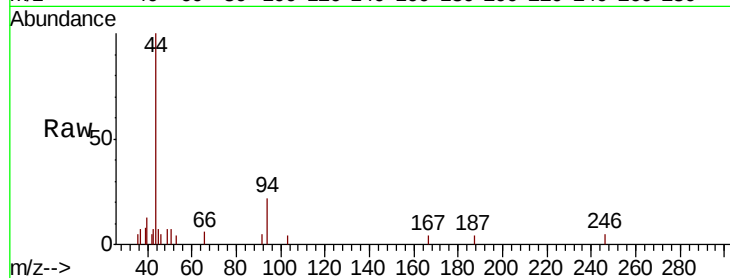
Tgt Ion: 94 Resp: 2394

Ion Ratio Lower Upper

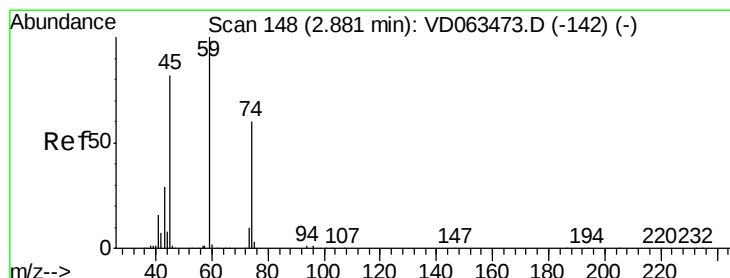
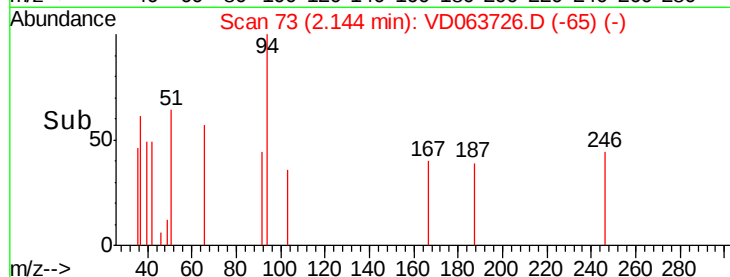
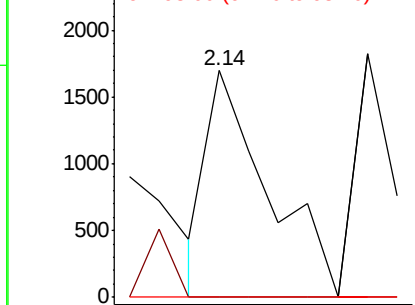
94 100

96 0.0 76.5 114.7#

93 0.0 15.8 23.8#



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



#8

Diethyl Ether

Concen: 2.777 ug/l

RT: 3.01 min Scan# 161

Delta R.T. 0.13 min

Lab File: VD063726.D

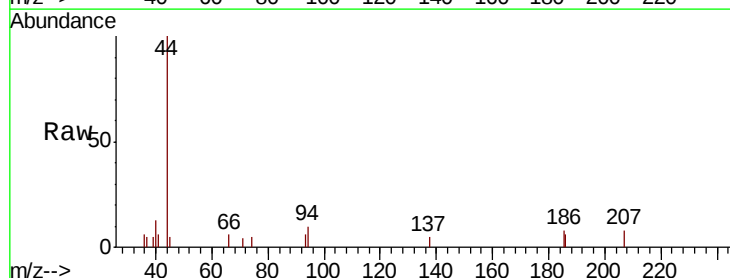
Acq: 21 Aug 2019 21:19

Tgt Ion: 74 Resp: 381

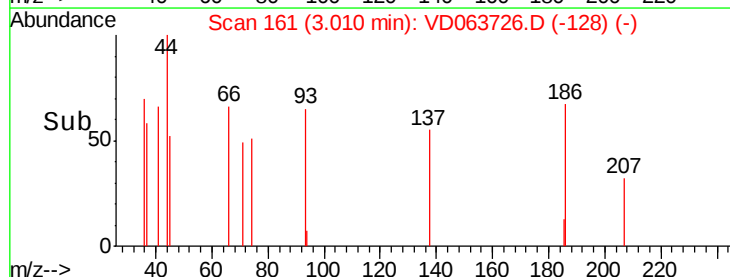
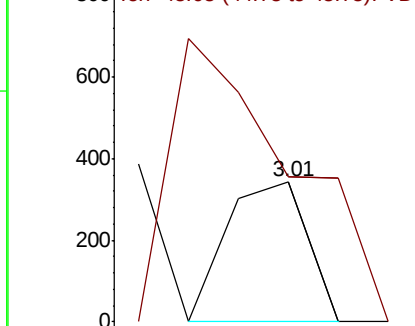
Ion Ratio Lower Upper

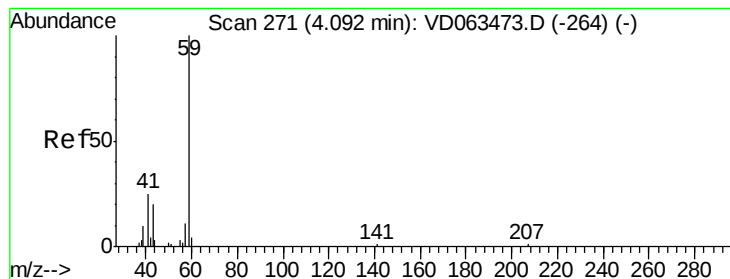
74 100

45 102.9 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC



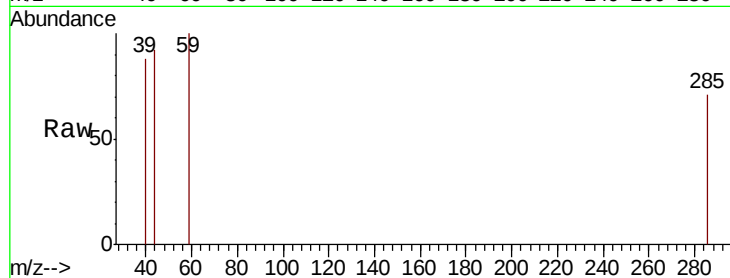


#11

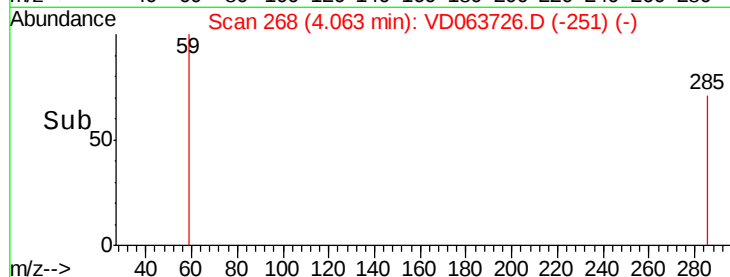
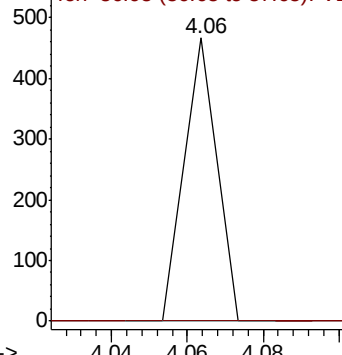
Tert butyl alcohol
 Concen: 11.235 ug/l
 RT: 4.06 min Scan# 268
 Delta R.T. -0.03 min
 Lab File: VD063726.D
 Acq: 21 Aug 2019 21:19

Instrument :
 MSVOA_D
 ClientSampleId :
 T6-E1-(0)RE

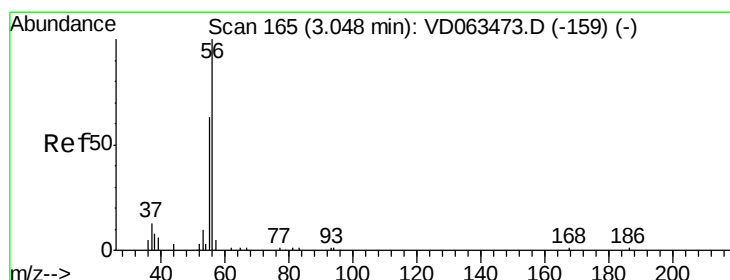
Tgt Ion: 59 Resp: 276
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



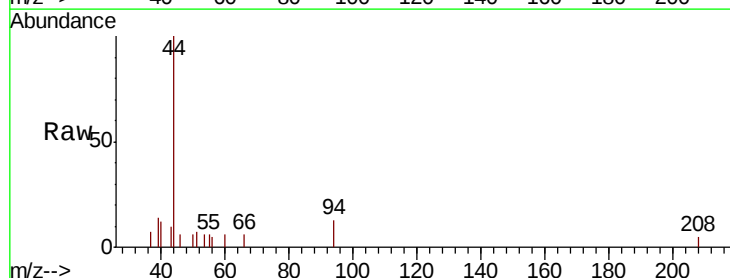
Time-->



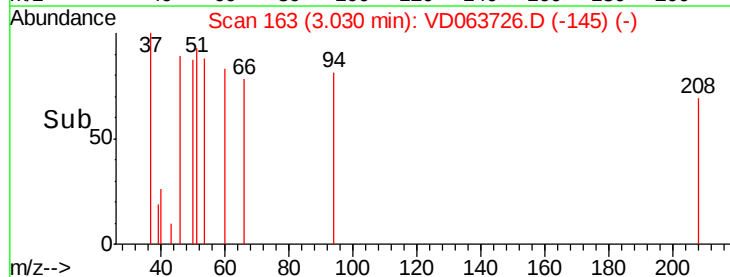
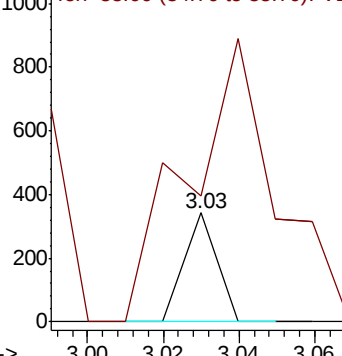
#13

Acrolein
 Concen: 8.395 ug/l
 RT: 3.03 min Scan# 163
 Delta R.T. -0.02 min
 Lab File: VD063726.D
 Acq: 21 Aug 2019 21:19

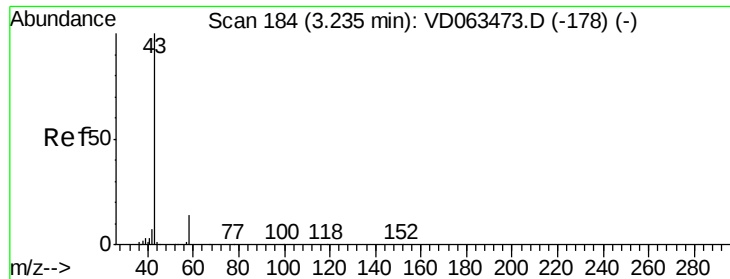
Tgt Ion: 56 Resp: 203
 Ion Ratio Lower Upper
 56 100
 55 115.2 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC
 Ion 55.00 (54.70 to 55.70): VDC



Time-->



#16

Acetone

Concen: 6.146 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.00 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Instrument :

MSVOA_D

ClientSampleId :

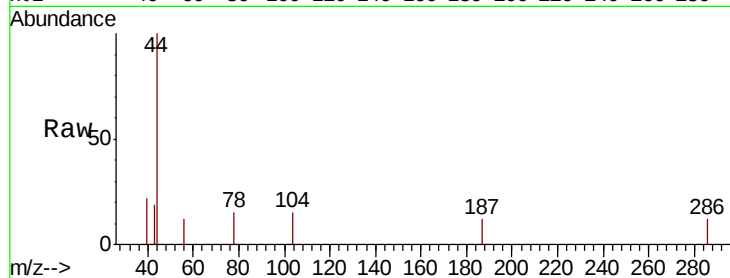
T6-E1-(0)RE

Tgt Ion: 43 Resp: 705

Ion Ratio Lower Upper

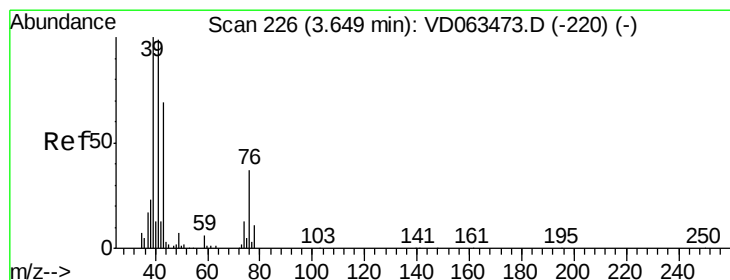
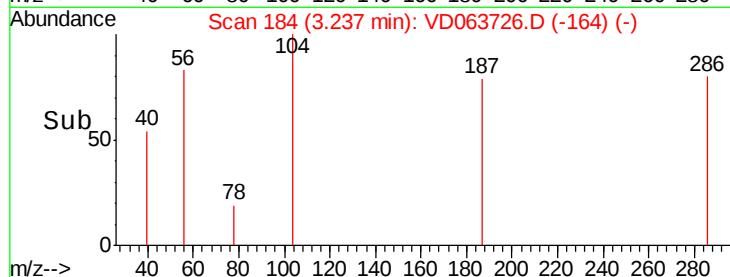
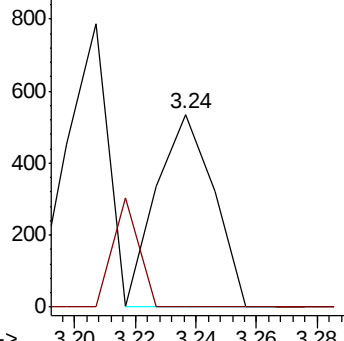
43 100

58 0.0 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 4.704 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD063726.D

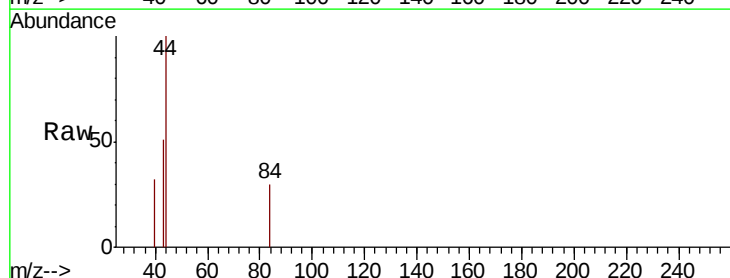
Acq: 21 Aug 2019 21:19

Tgt Ion: 43 Resp: 1022

Ion Ratio Lower Upper

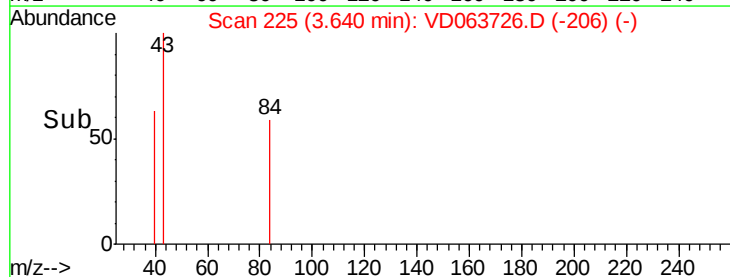
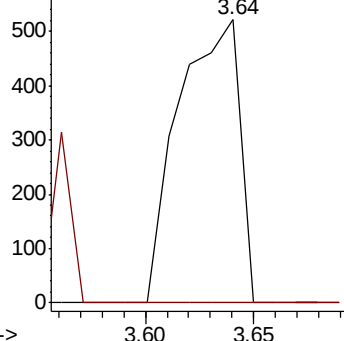
43 100

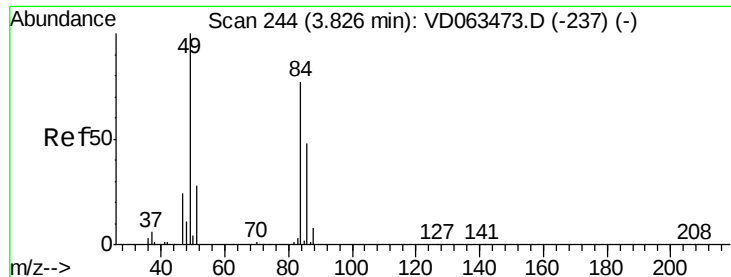
74 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

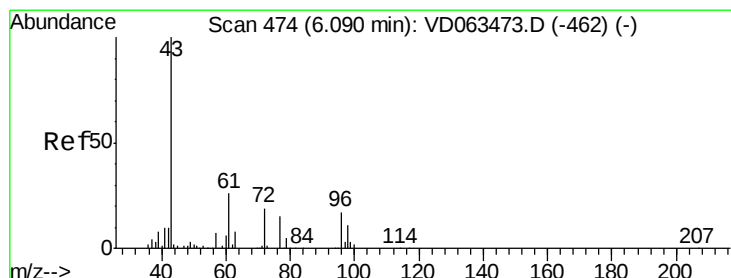
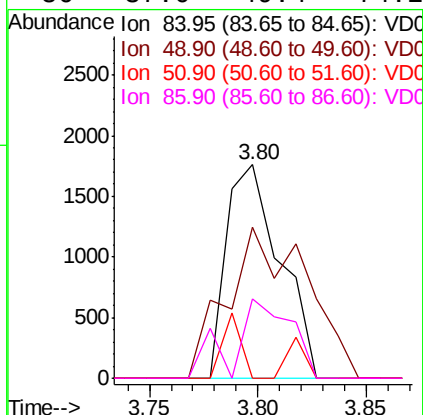
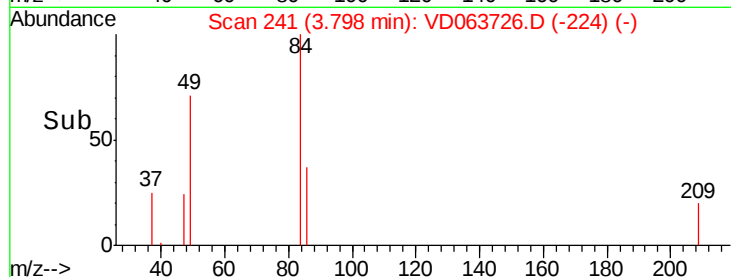
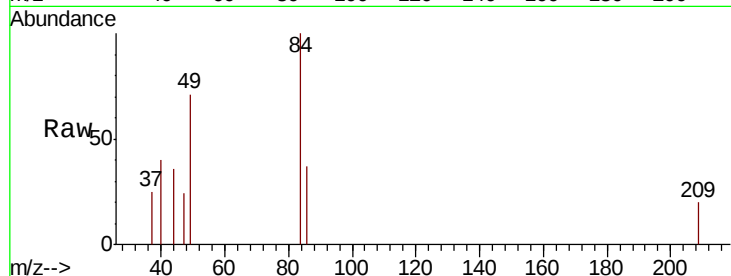




#20
Methylene Chloride
Concen: 6.135 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.03 min
Lab File: VD063726.D
Acq: 21 Aug 2019 21:19

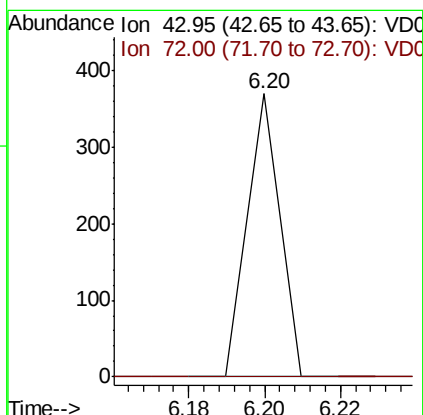
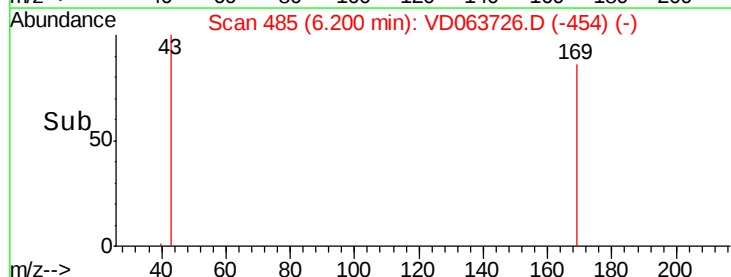
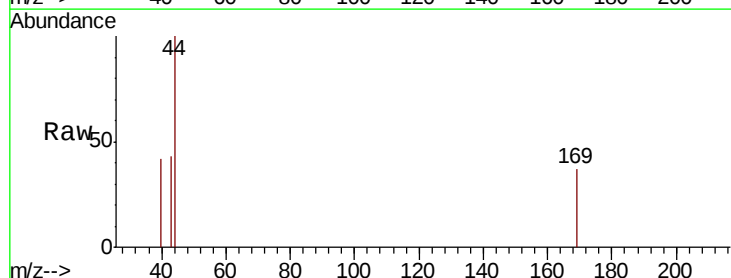
Instrument :
MSVOA_D
ClientSampleId :
T6-E1-(0)RE

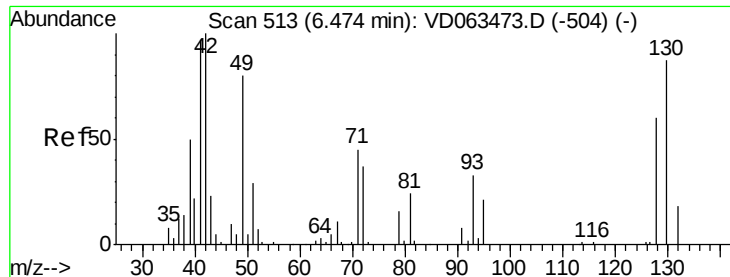
Tgt Ion: 84 Resp: 3043
Ion Ratio Lower Upper
84 100
49 70.8 103.4 155.2#
51 0.0 28.5 42.7#
86 37.0 49.4 74.2#



#25
2-Butanone
Concen: 1.924 ug/l
RT: 6.20 min Scan# 485
Delta R.T. 0.11 min
Lab File: VD063726.D
Acq: 21 Aug 2019 21:19

Tgt Ion: 43 Resp: 218
Ion Ratio Lower Upper
43 100
72 0.0 15.1 22.7#





#29

Tetrahydrofuran

Concen: 40.043 ug/l

RT: 6.47 min Scan# 512

Delta R.T. -0.01 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Instrument :

MSVOA_D

ClientSampleId :

T6-E1-(0)RE

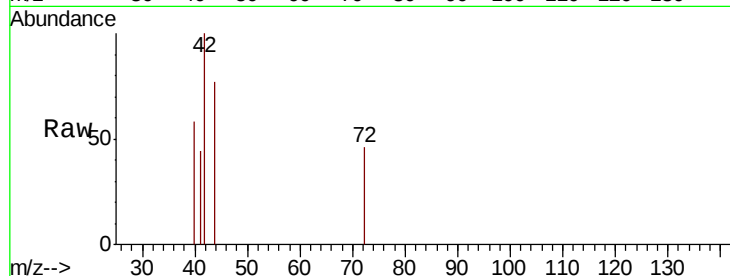
Tgt Ion: 42 Resp: 2114

Ion Ratio Lower Upper

42 100

72 32.6 31.5 47.3

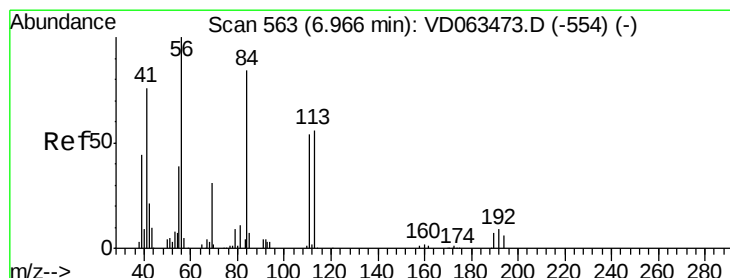
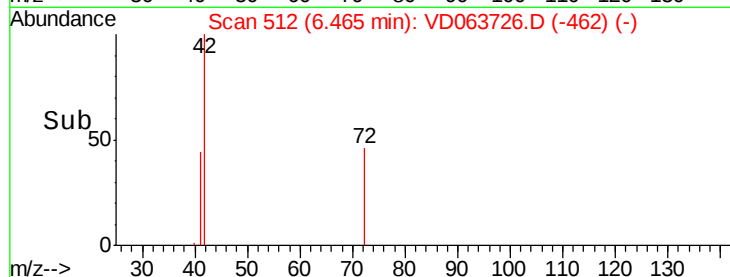
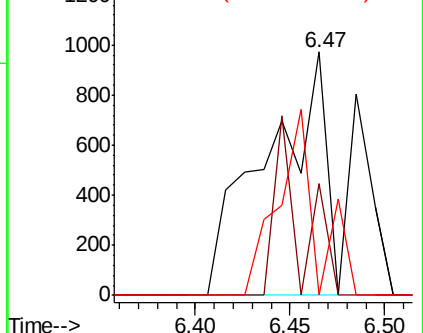
71 50.1 33.8 50.8



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: 2.538 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.05 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

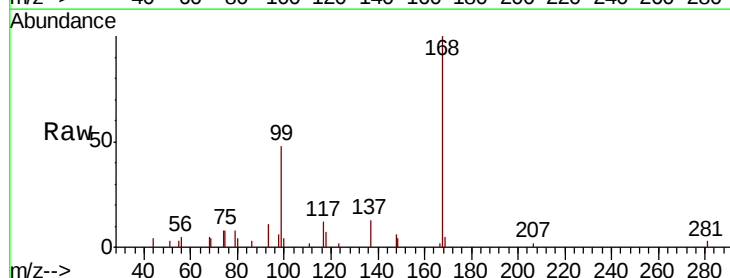
Tgt Ion: 56 Resp: 1293

Ion Ratio Lower Upper

56 100

69 83.4 25.0 37.6#

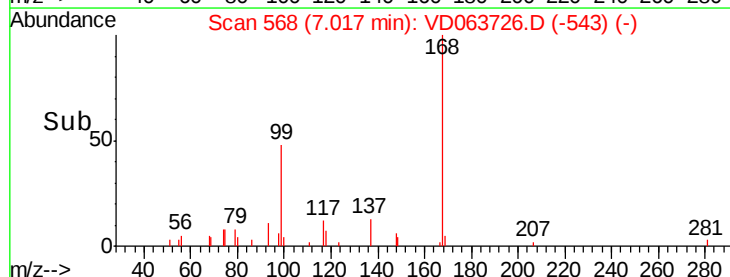
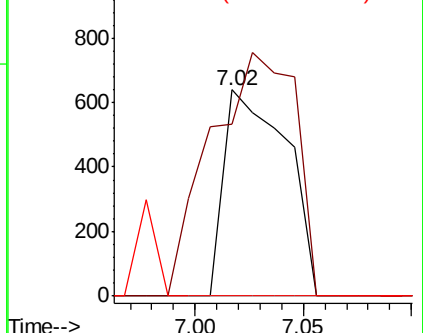
84 0.0 69.7 104.5#

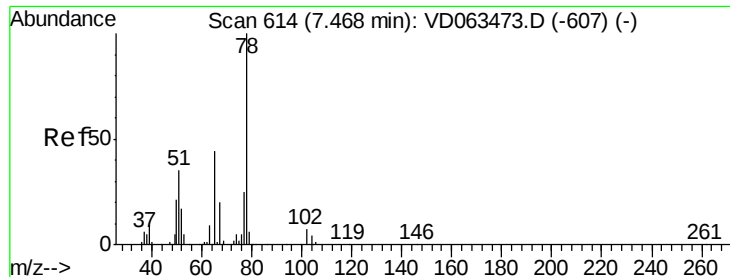


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 119.759 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.03 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Instrument :

MSVOA_D

ClientSampleId :

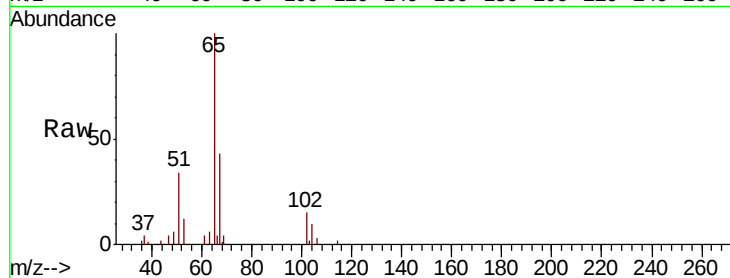
T6-E1-(0)RE

Tgt Ion: 65 Resp: 67582

Ion Ratio Lower Upper

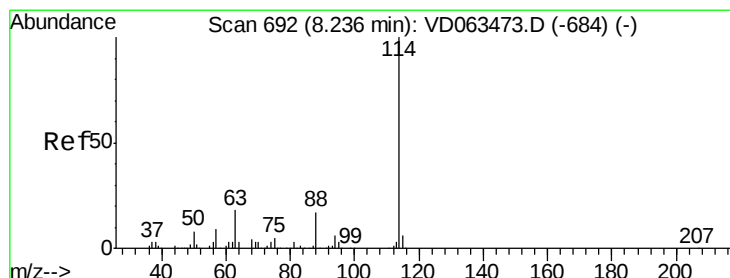
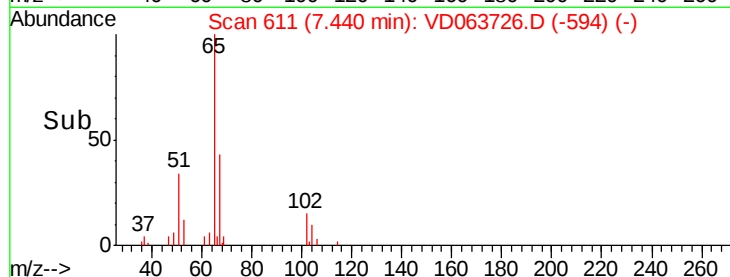
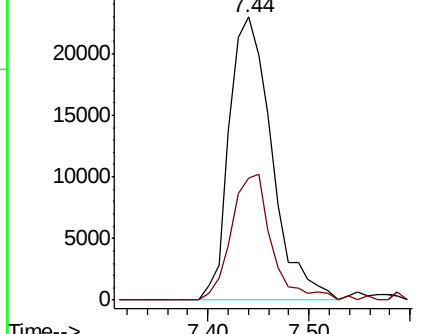
65 100

67 43.0 0.0 89.2



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. -0.03 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

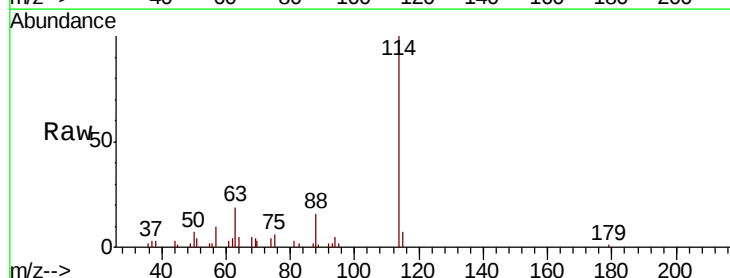
Tgt Ion: 114 Resp: 83769

Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.2

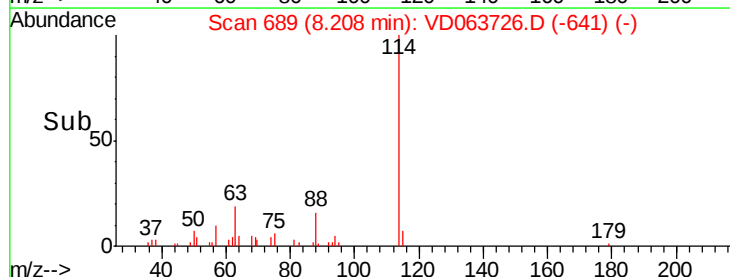
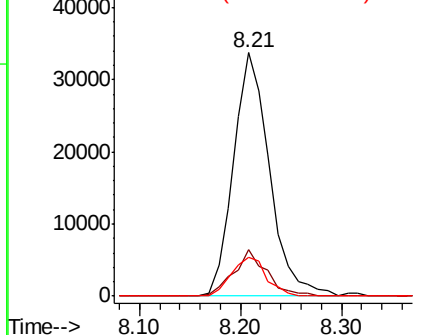
88 16.1 0.0 35.0

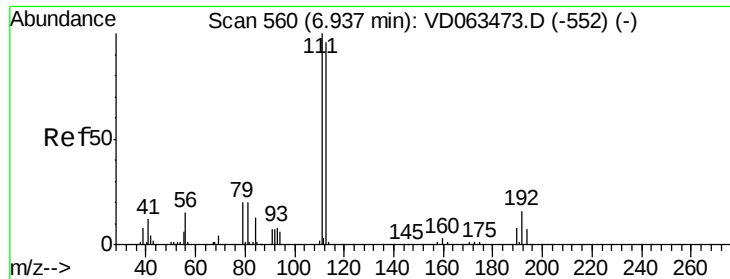


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

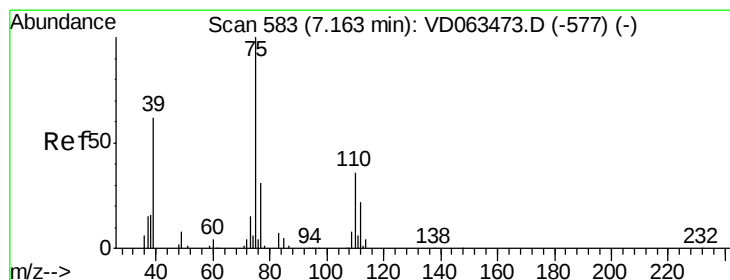
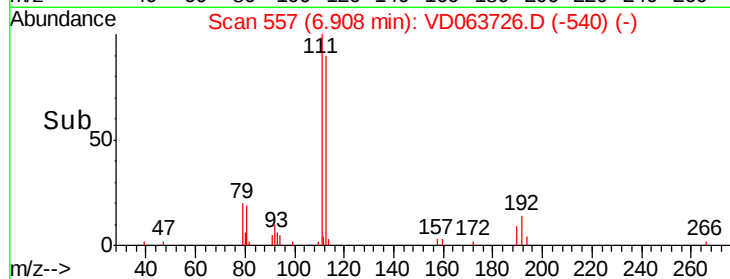
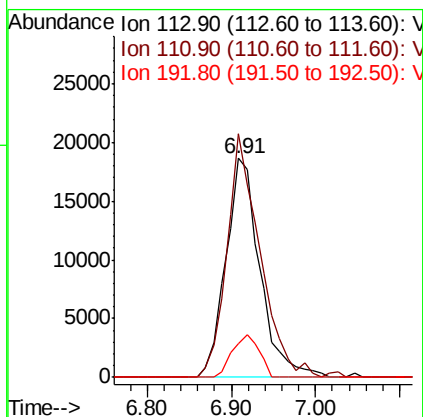
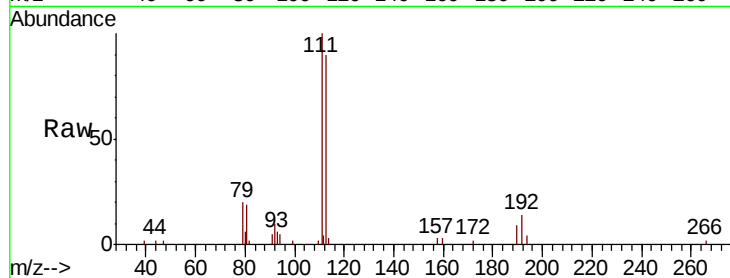




#35
 Dibromofluoromethane
 Concen: 74.413 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. -0.03 min
 Lab File: VD063726.D
 Acq: 21 Aug 2019 21:19

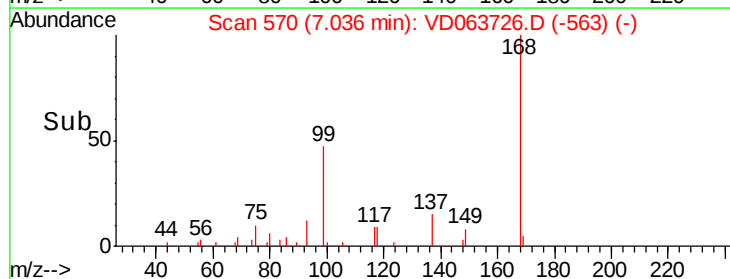
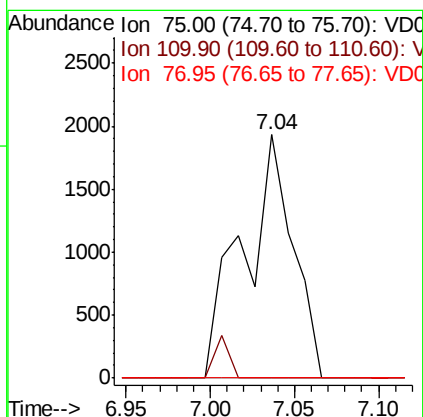
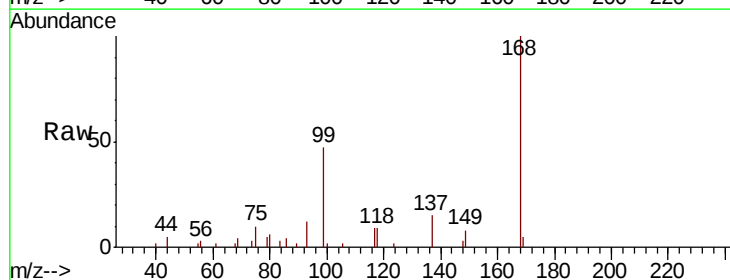
Instrument :
 MSVOA_D
 ClientSampleId :
 T6-E1-(0)RE

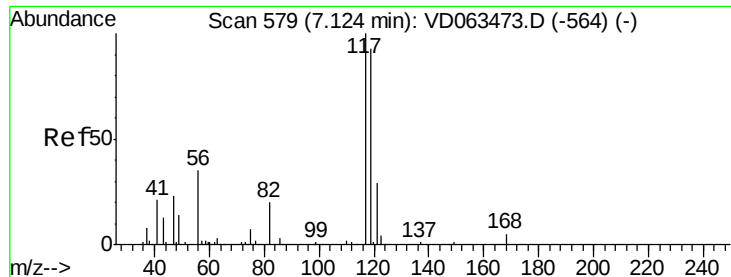
Tgt Ion: 113 Resp: 52499
 Ion Ratio Lower Upper
 113 100
 111 111.1 83.1 124.7
 192 15.3 13.1 19.7



#36
 1,1-Dichloropropene
 Concen: 5.322 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.13 min
 Lab File: VD063726.D
 Acq: 21 Aug 2019 21:19

Tgt Ion: 75 Resp: 3941
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.6 52.8#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.208 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Instrument :

MSVOA_D

ClientSampleId :

T6-E1-(0)RE

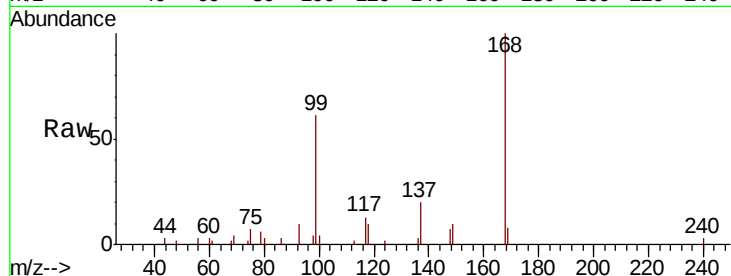
Tgt Ion:117 Resp: 5812

Ion Ratio Lower Upper

117 100

119 0.0 74.2 111.2#

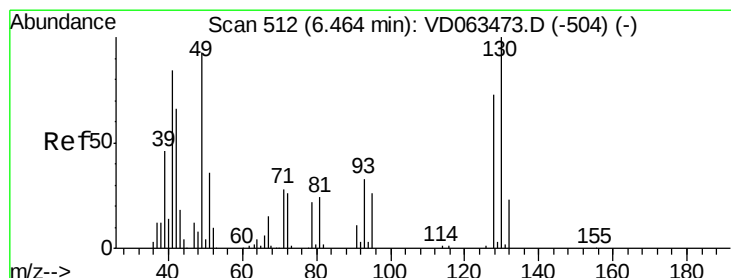
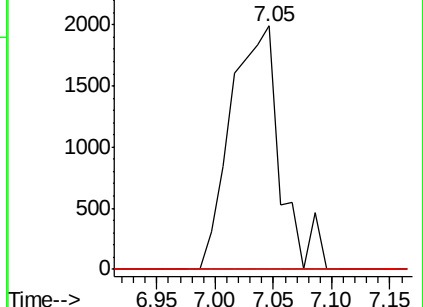
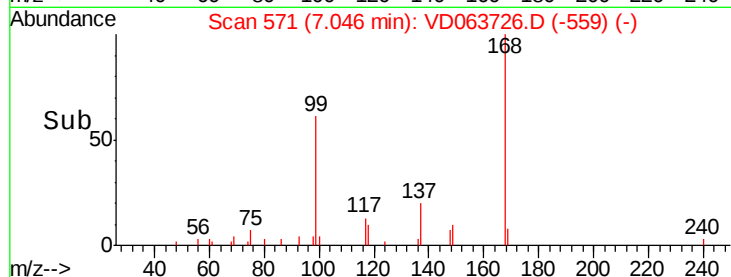
121 0.0 23.1 34.7#



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



#41

Methacrylonitrile

Concen: 6.862 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Tgt Ion: 41 Resp: 2681

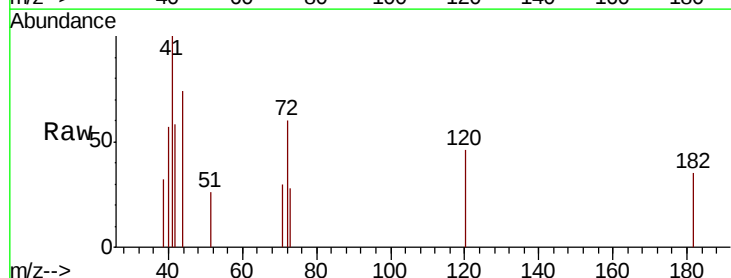
Ion Ratio Lower Upper

41 100

39 31.7 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

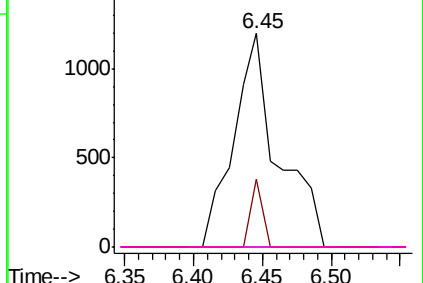
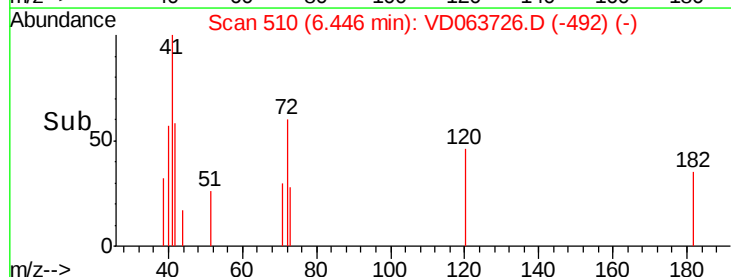


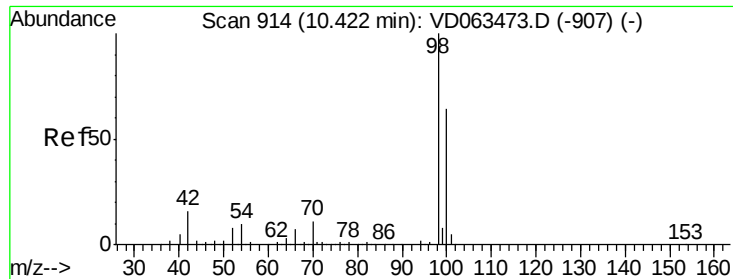
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

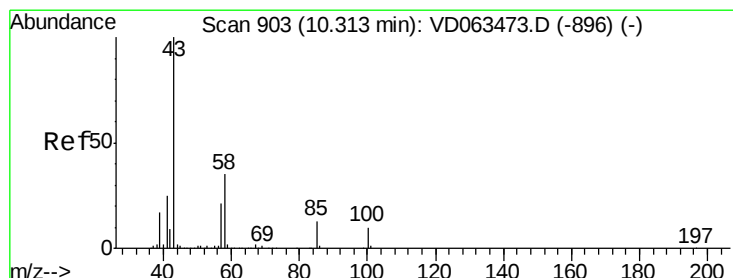
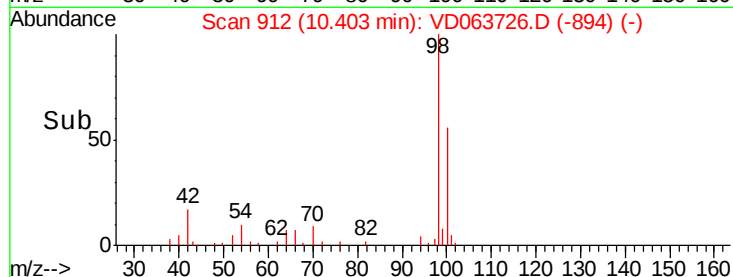
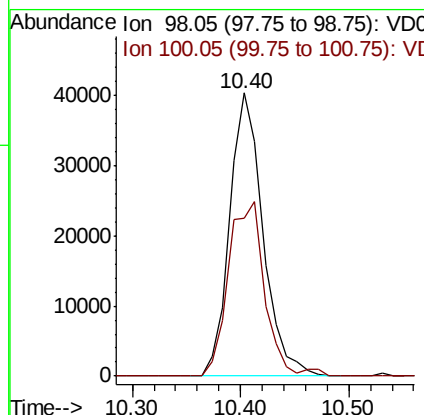
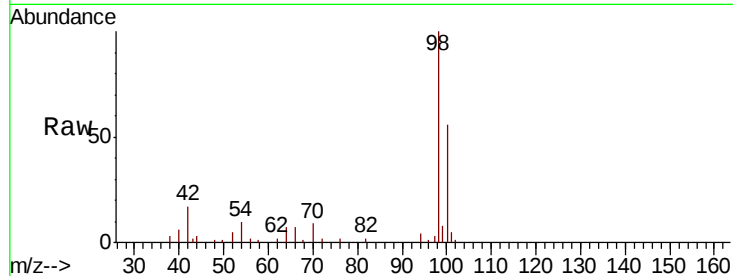




#50
Toluene-d8
Concen: 55.654 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.02 min
Lab File: VD063726.D
Acq: 21 Aug 2019 21:19

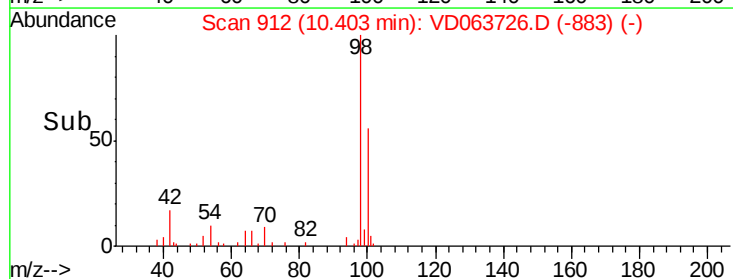
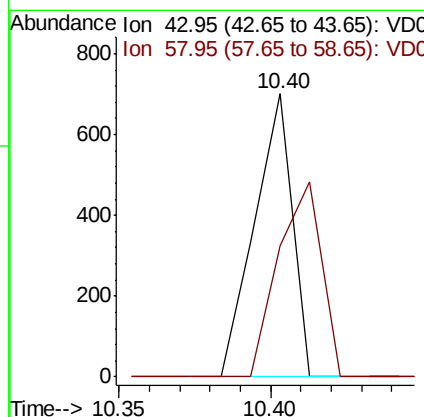
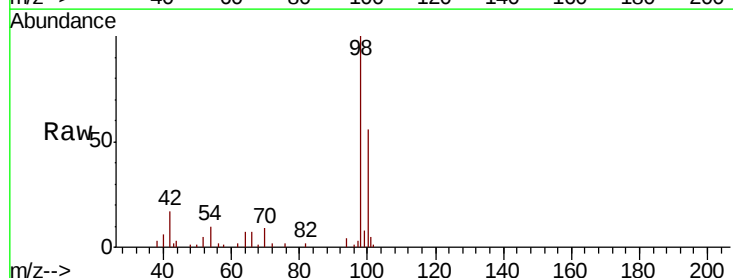
Instrument :
MSVOA_D
ClientSampleId :
T6-E1-(0)RE

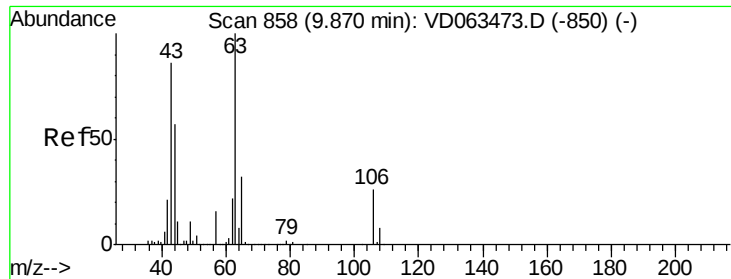
Tgt Ion: 98 Resp: 86325
Ion Ratio Lower Upper
98 100
100 55.9 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 2.152 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.09 min
Lab File: VD063726.D
Acq: 21 Aug 2019 21:19

Tgt Ion: 43 Resp: 612
Ion Ratio Lower Upper
43 100
58 46.2 28.0 42.0#





#58

2-Chloroethyl Vinyl ether

Concen: 1.427 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.01 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Instrument :

MSVOA_D

ClientSampleId :

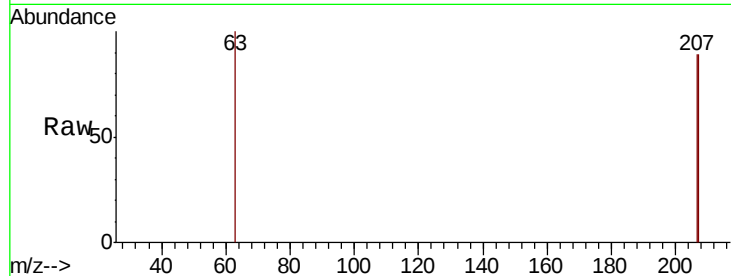
T6-E1-(0)RE

Tgt Ion: 63 Resp: 290

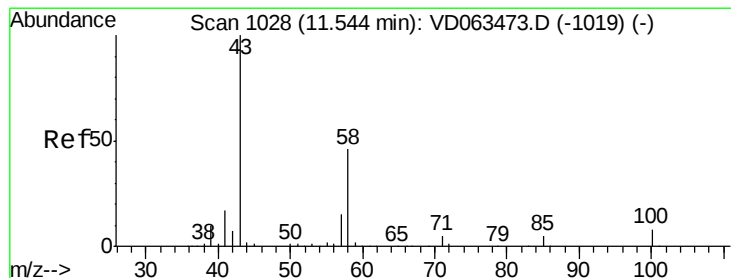
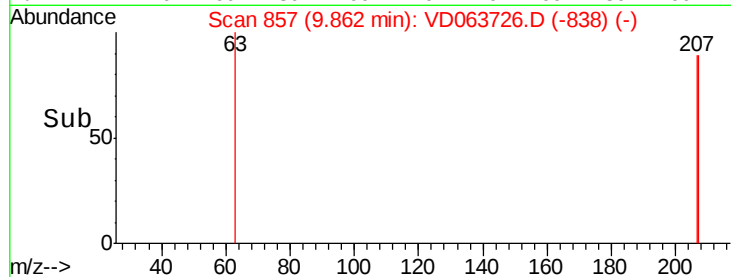
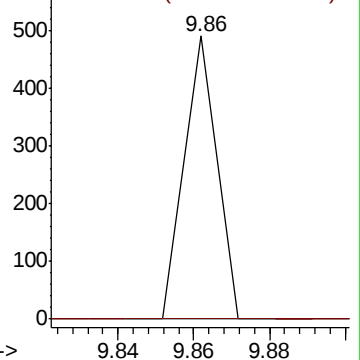
Ion Ratio Lower Upper

63 100

106 0.0 20.8 31.2#



Abundance Ion 62.95 (62.65 to 63.65): VDC



#59

2-Hexanone

Concen: 1.078 ug/l

RT: 11.46 min Scan# 1019

Delta R.T. -0.09 min

Lab File: VD063726.D

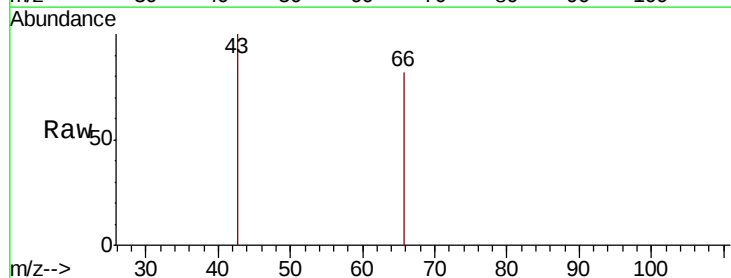
Acq: 21 Aug 2019 21:19

Tgt Ion: 43 Resp: 223

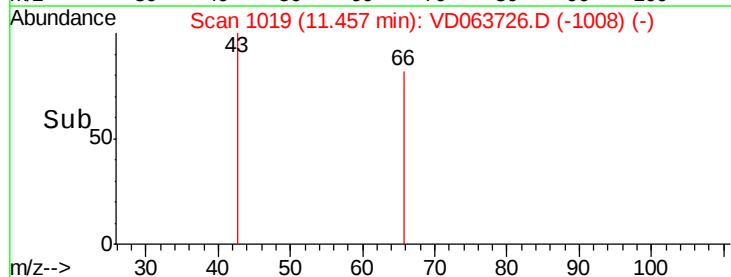
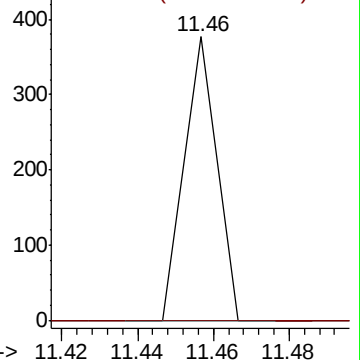
Ion Ratio Lower Upper

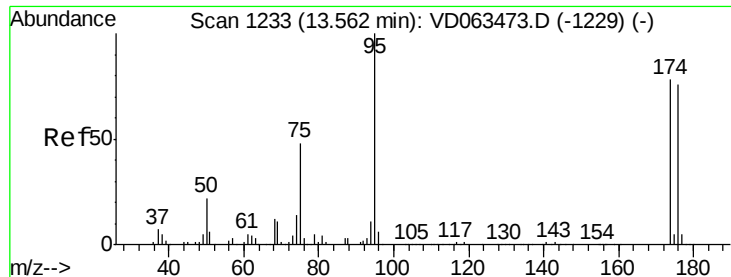
43 100

58 0.0 23.1 69.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC





#62

4-Bromofluorobenzene

Concen: 55.741 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Instrument :

MSVOA_D

ClientSampleId :

T6-E1-(0)RE

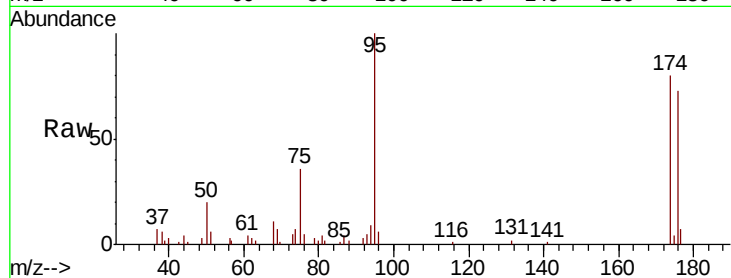
Tgt Ion: 95 Resp: 39187

Ion Ratio Lower Upper

95 100

174 79.8 0.0 155.4

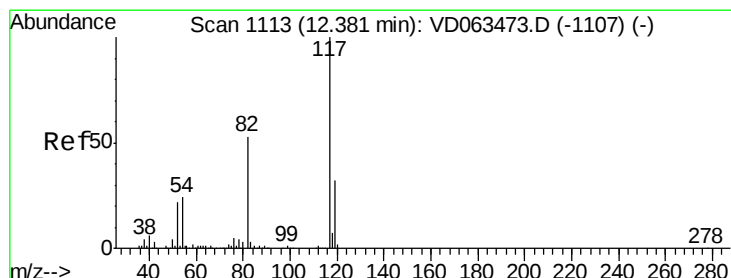
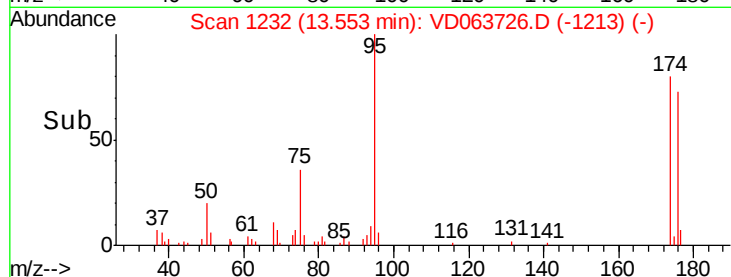
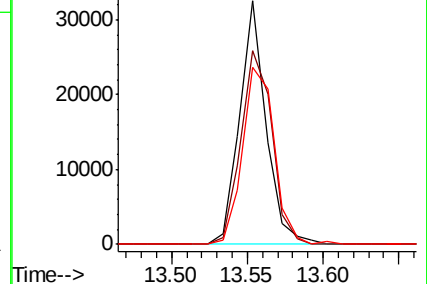
176 72.5 0.0 152.4



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. -0.02 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

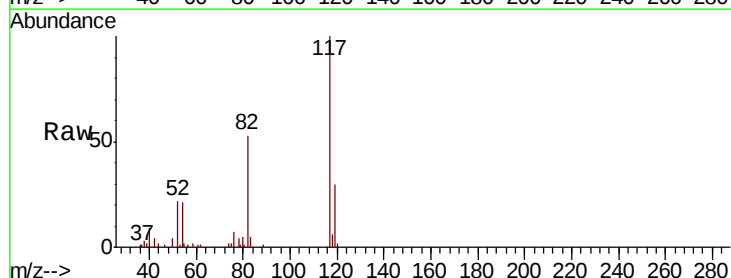
Tgt Ion: 117 Resp: 70139

Ion Ratio Lower Upper

117 100

82 53.1 42.0 63.0

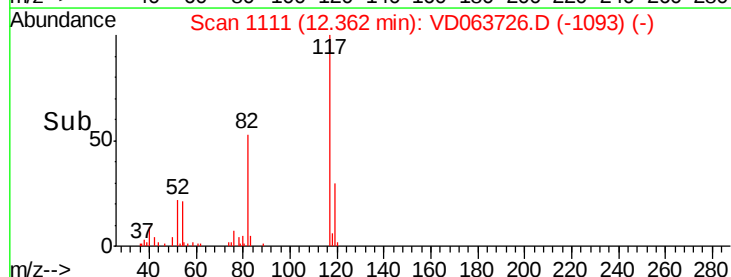
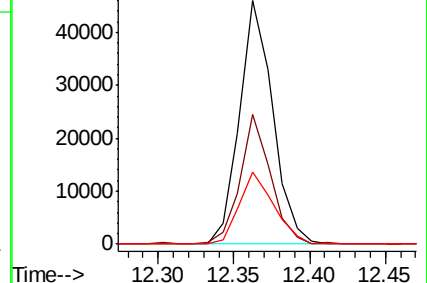
119 29.5 25.4 38.0

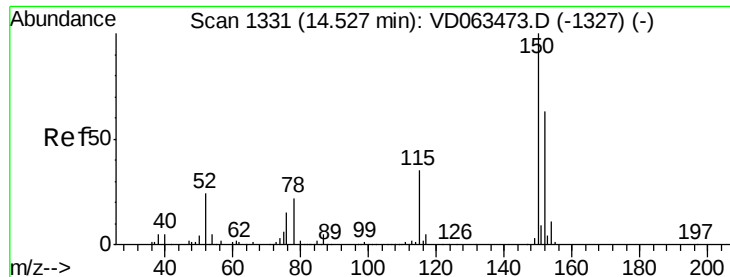


Abundance Ion 116.95 (116.65 to 117.65): V

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. -0.01 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

Instrument :

MSVOA_D

ClientSampleId :

T6-E1-(0)RE

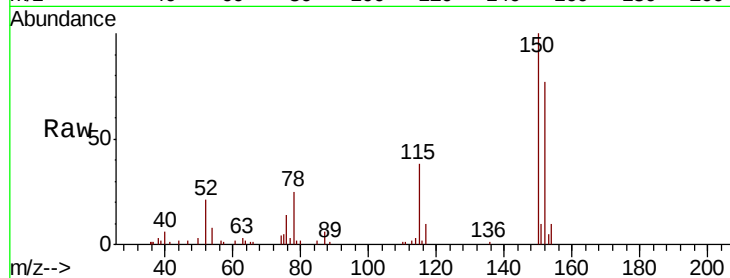
Tgt Ion:152 Resp: 34061

Ion Ratio Lower Upper

152 100

115 49.5 30.9 92.7

150 130.7 0.0 318.6

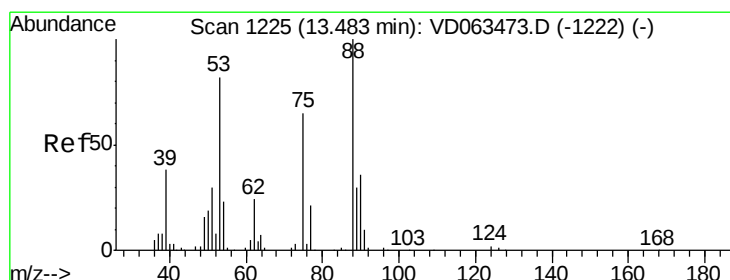
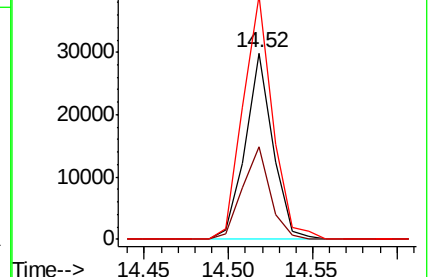
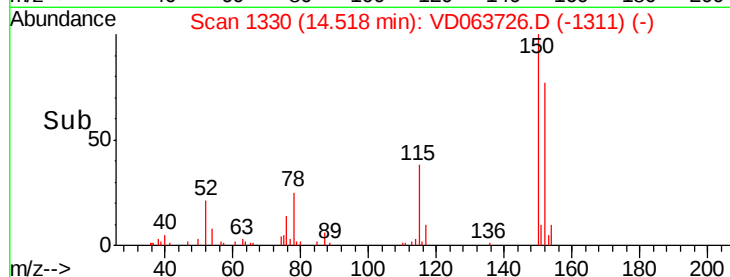


Abundance

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: 145.176 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063726.D

Acq: 21 Aug 2019 21:19

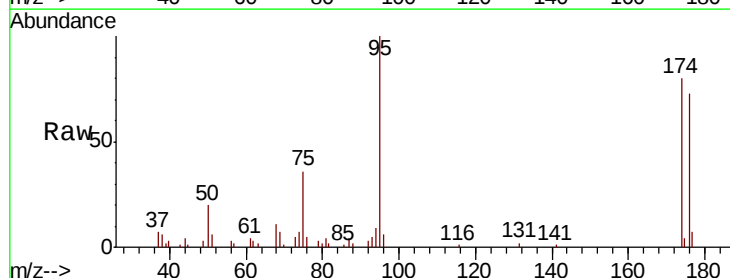
Tgt Ion: 75 Resp: 15253

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#



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

