

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102419\
 Data File : VD064046.D
 Acq On : 24 Oct 2019 14:54
 Operator : VA/SY
 Sample : K5494-09RE
 Misc : 8.55G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 25 03:58:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	19135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	36905	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	38027	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	18390	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	16459	88.35	ug/l	0.00
Spiked Amount			Recovery	=	176.70%	
35) Dibromofluoromethane	7.92	113	12818	56.83	ug/l	0.00
Spiked Amount			Recovery	=	113.66%	
50) Toluene-d8	10.34	98	44273	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
62) 4-Bromofluorobenzene	12.64	95	15274	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	

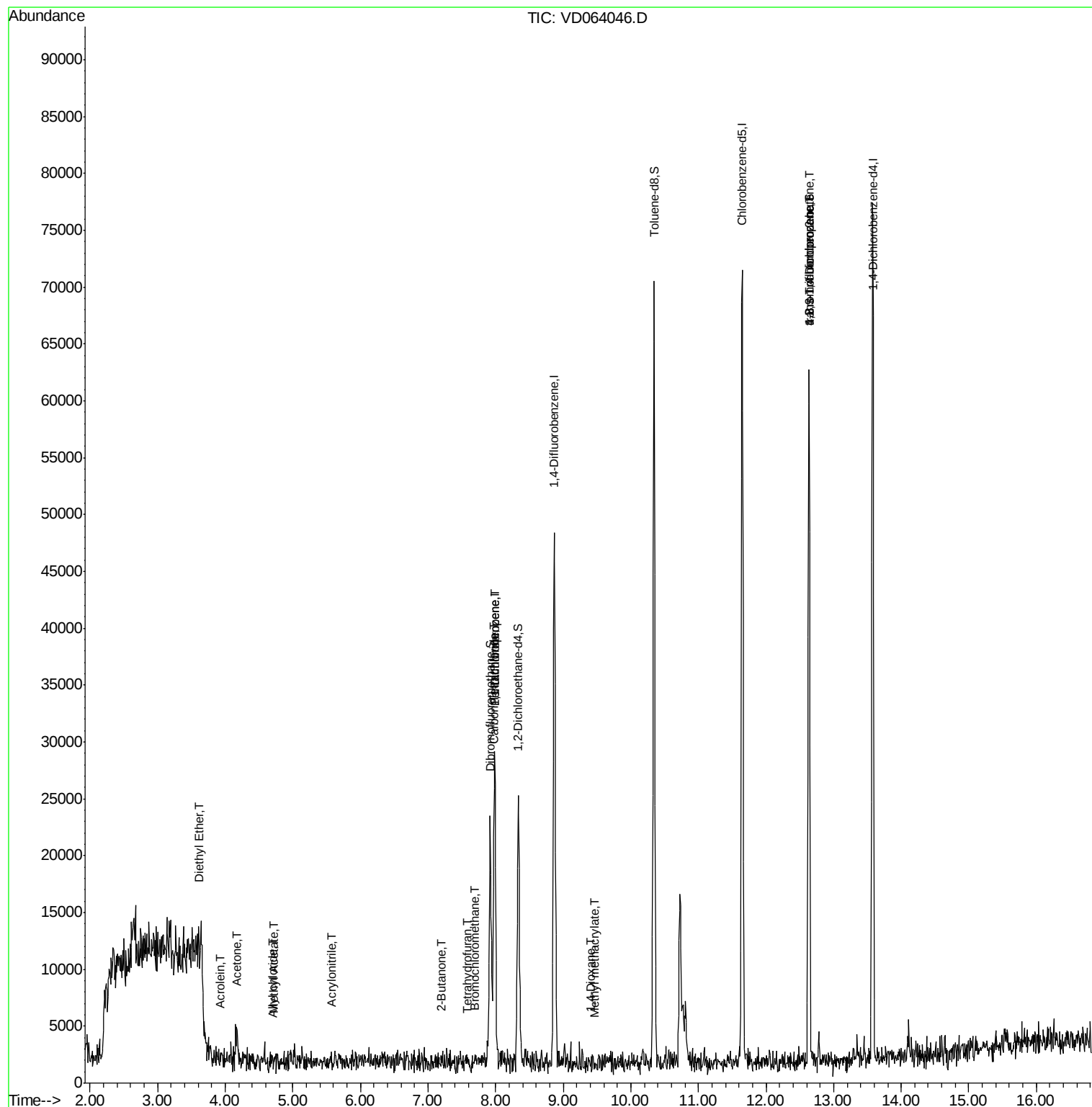
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	330	Below Cal	#	81
8) Diethyl Ether	3.60	74	132	1.418	ug/l #	1
13) Acrolein	3.93	56	65	3.907	ug/l #	17
14) Allyl chloride	4.71	41	297	1.114	ug/l #	68
15) Acrylonitrile	5.58	53	66	1.608	ug/l #	17
16) Acetone	4.18	43	5230	107.830	ug/l #	87
18) Methyl Acetate	4.72	43	315	3.321	ug/l #	49
20) Methylene Chloride	4.97	84	230	Below Cal	#	55
25) 2-Butanone	7.20	43	95	1.653	ug/l #	51
28) Bromochloromethane	7.69	49	76	2.438	ug/l #	10
29) Tetrahydrofuran	7.59	42	175	5.216	ug/l #	31
31) Cyclohexane	7.99	56	400	Below Cal	#	73
36) 1,1-Dichloropropene	7.98	75	2066	6.123	ug/l #	41
37) Ethyl Acetate	7.29	43	56	Below Cal	#	1
38) Carbon Tetrachloride	7.97	117	1767	5.182	ug/l #	15
48) Methyl methacrylate	9.46	41	150	1.106	ug/l #	43
49) 1,4-Dioxane	9.41	88	119	64.677	ug/l #	64
76) 1,2,3-Trichloropropane	12.64	75	9107	73.938	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	9107	130.840	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.64	75	70	Below Cal	#	1

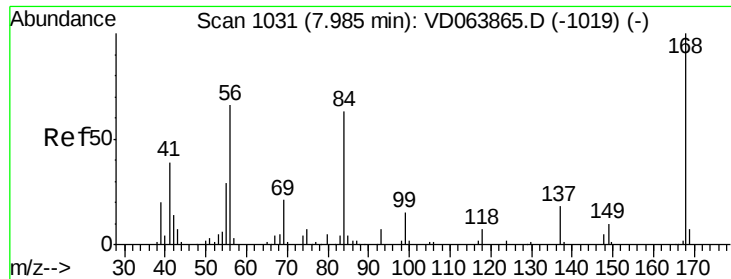
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

Instrument :

MSVOA_D

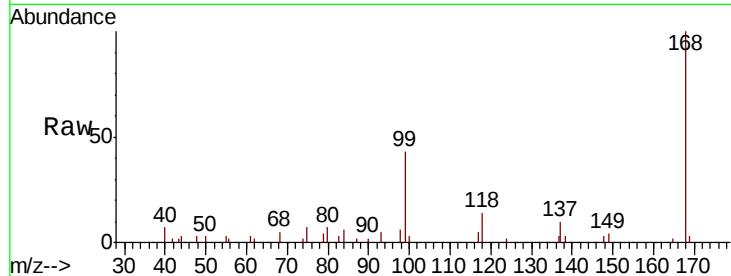
ClientSampleId :

Tot Ion:168 Resp: 19135

Ion Ratio Lower Upper

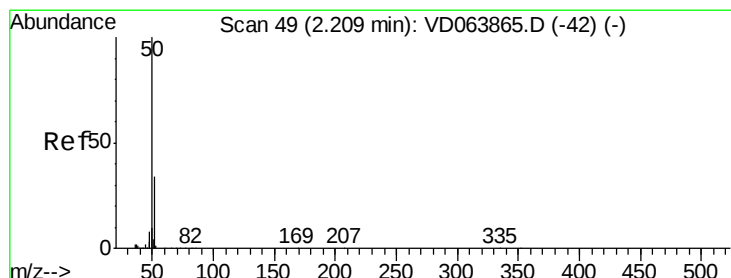
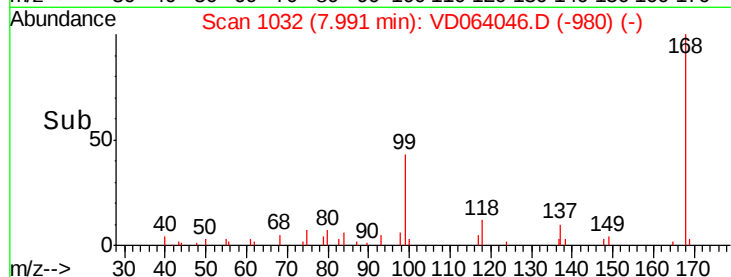
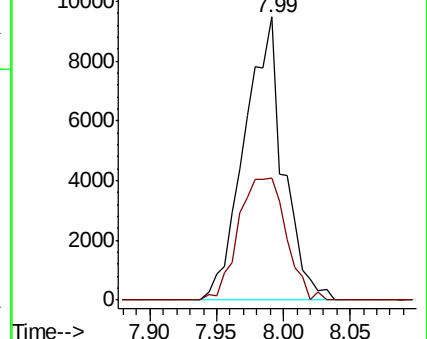
168 100

99 43.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD064046.D

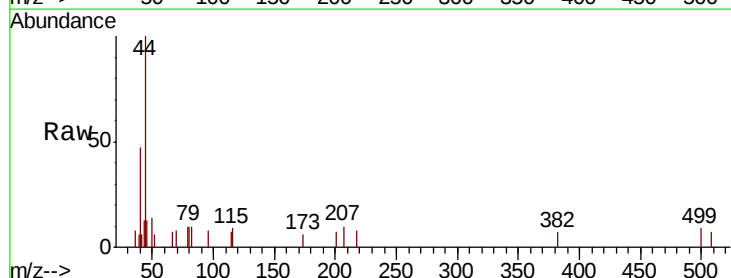
Acq: 24 Oct 2019 14:54

Tgt Ion: 50 Resp: 330

Ion Ratio Lower Upper

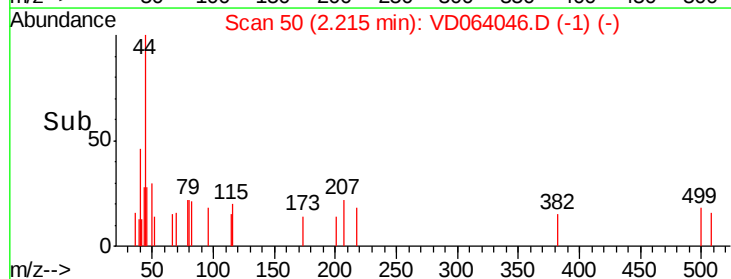
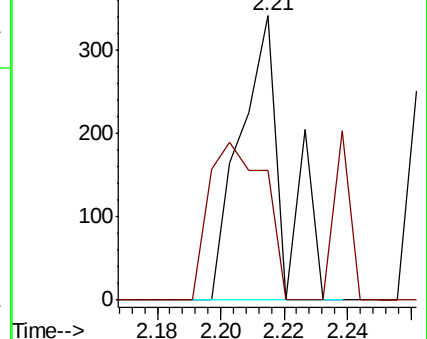
50 100

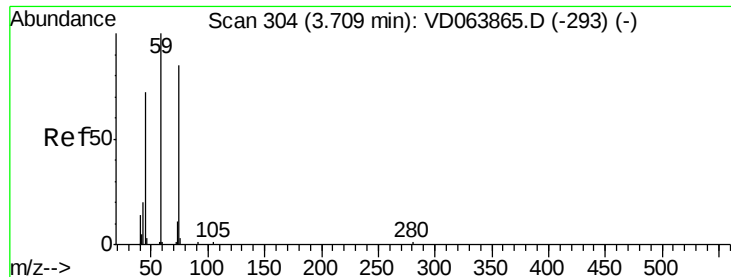
52 45.6 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#8

Diethyl Ether

Concen: 1.418 ug/l

RT: 3.60 min Scan# 286

Delta R.T. -0.11 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

Instrument :

MSVOA_D

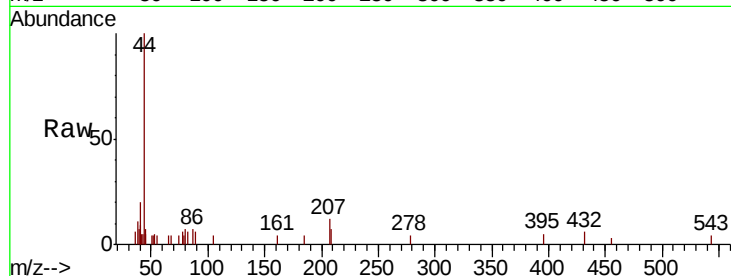
ClientSampleId :

Tot Ion: 74 Resp: 132

Ion Ratio Lower Upper

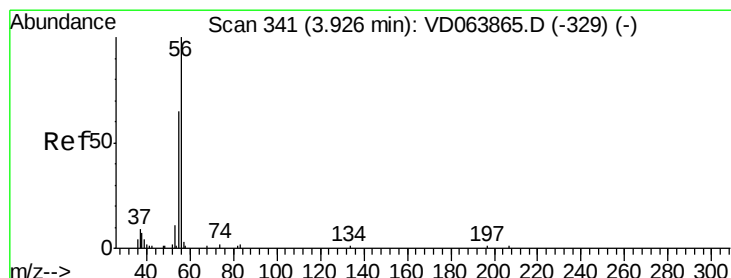
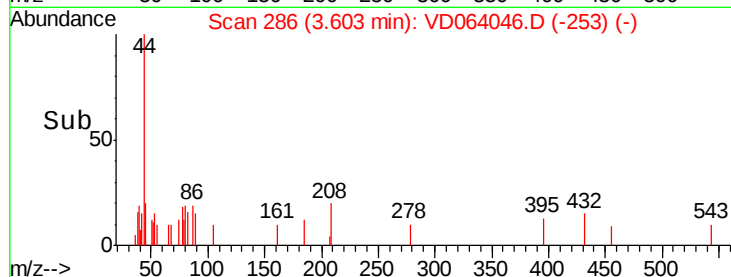
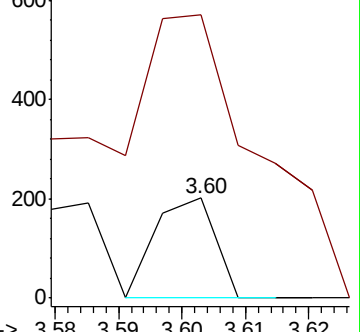
74 100

45 809.8 48.1 144.4#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC



#13

Acrolein

Concen: 3.907 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.01 min

Lab File: VD064046.D

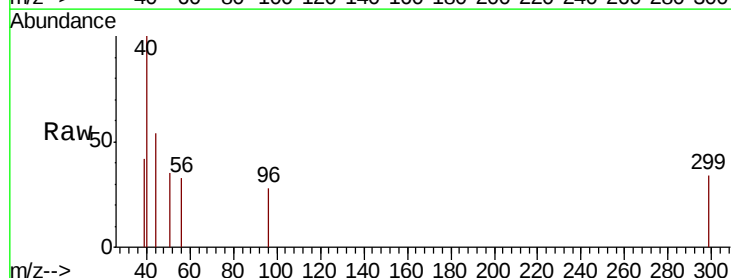
Acq: 24 Oct 2019 14:54

Tgt Ion: 56 Resp: 65

Ion Ratio Lower Upper

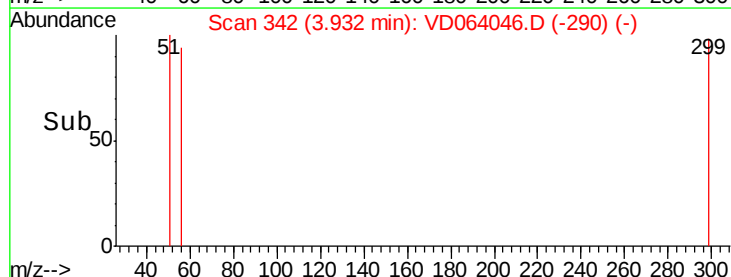
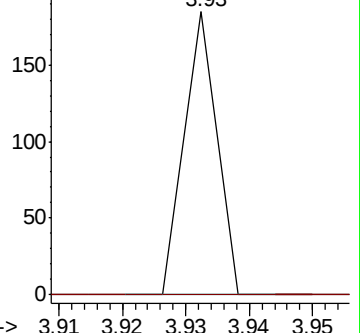
56 100

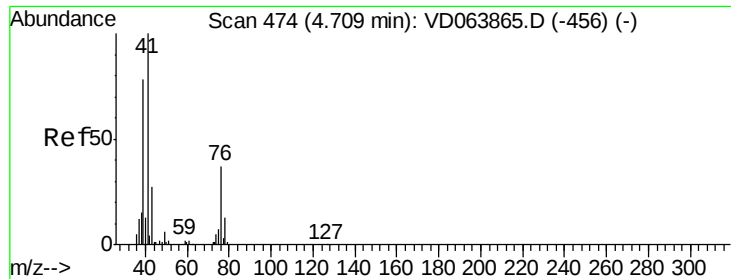
55 0.0 53.0 79.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

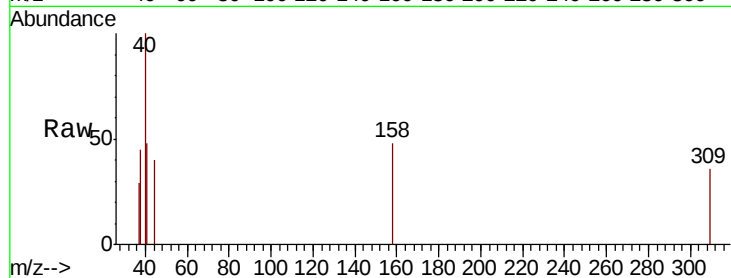




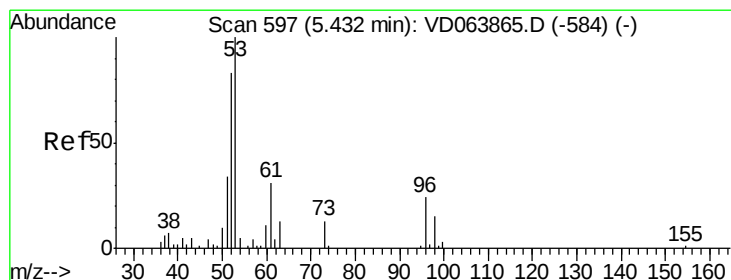
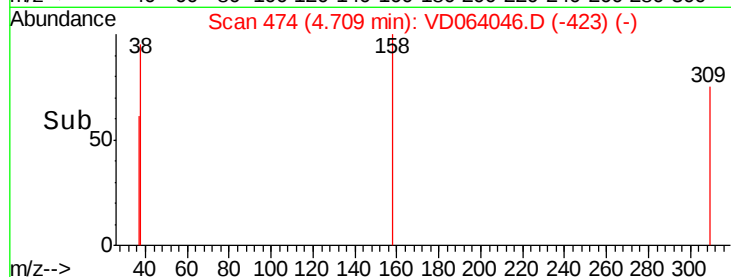
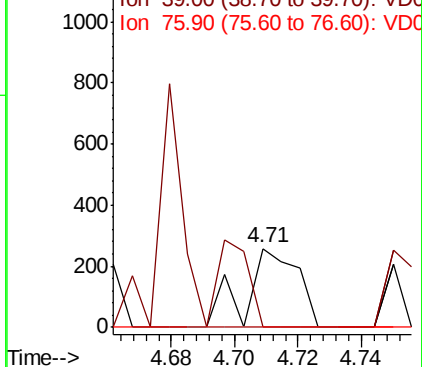
#14
Allvl chloride
Concen: 1.114 ug/l
RT: 4.71 min Scan# 474
Delta R.T. -0.00 min
Lab File: VD064046.D
Acq: 24 Oct 2019 14:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 41 Resp: 297
Ion Ratio Lower Upper
41 100
39 64.0 61.8 92.6
76 0.0 31.3 46.9#

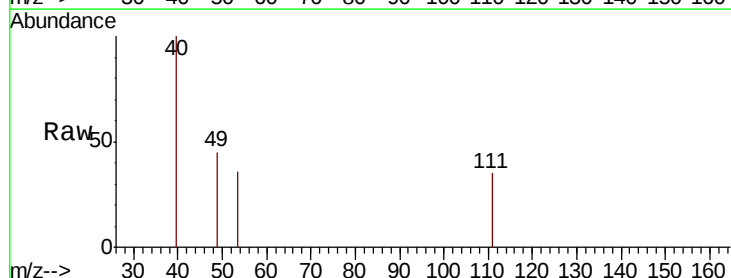


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 75.90 (75.60 to 76.60): VDC

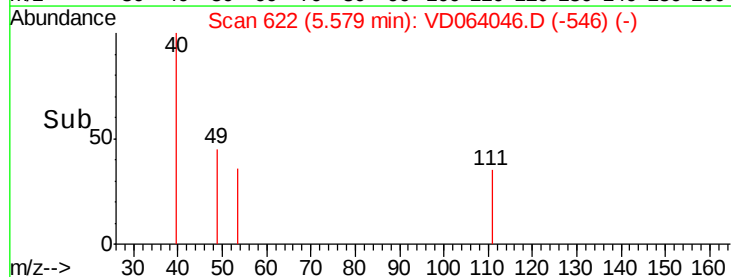
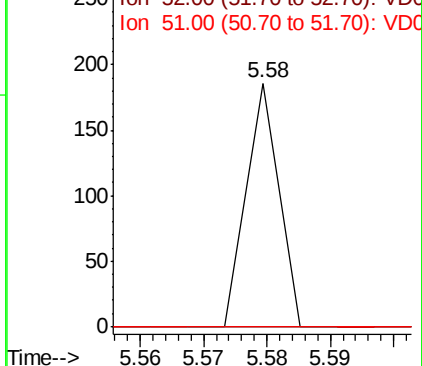


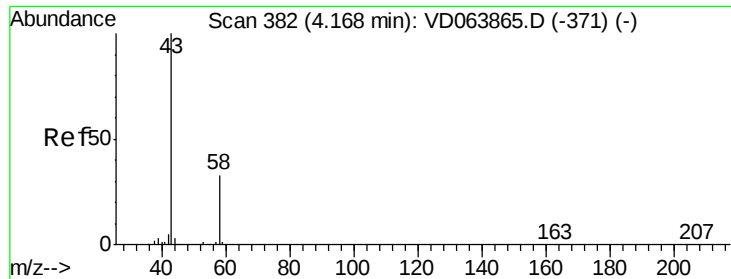
#15
Acrylonitrile
Concen: 1.608 ug/l
RT: 5.58 min Scan# 622
Delta R.T. 0.15 min
Lab File: VD064046.D
Acq: 24 Oct 2019 14:54

Tgt Ion: 53 Resp: 66
Ion Ratio Lower Upper
53 100
52 0.0 67.3 100.9#
51 0.0 30.5 45.7#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 107.830 ug/l

RT: 4.18 min Scan# 384

Delta R.T. 0.01 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

Instrument :

MSVOA_D

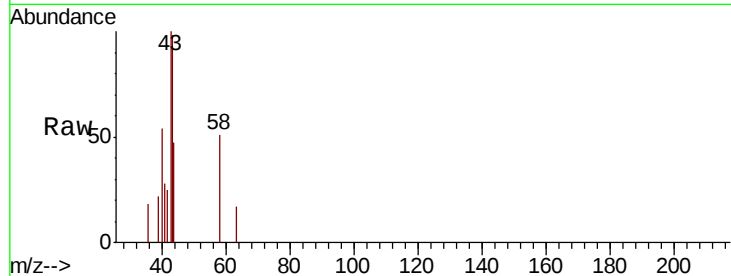
ClientSampleId :

Tot Ion: 43 Resp: 5230

Ion Ratio Lower Upper

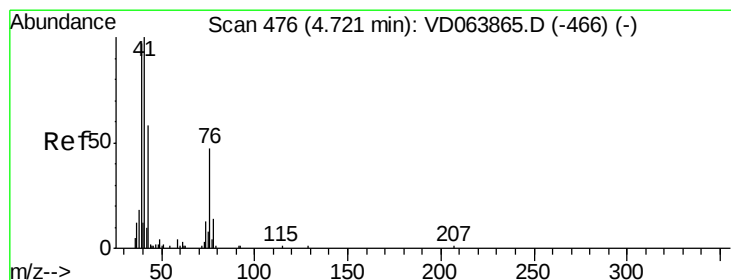
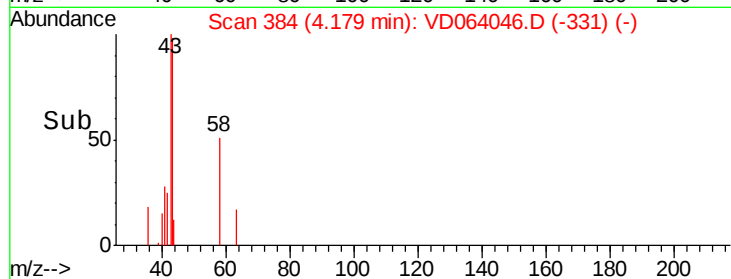
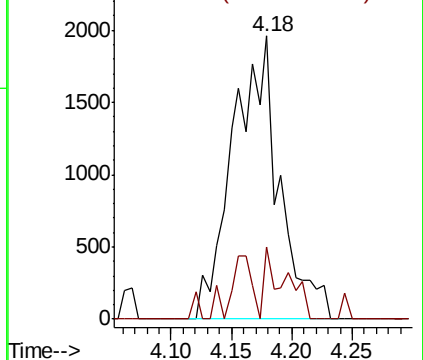
43 100

58 25.6 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 3.321 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.00 min

Lab File: VD064046.D

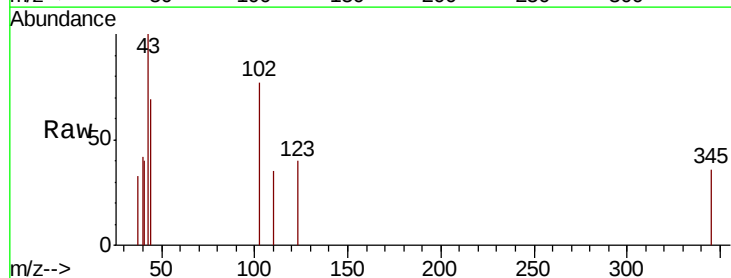
Acq: 24 Oct 2019 14:54

Tgt Ion: 43 Resp: 315

Ion Ratio Lower Upper

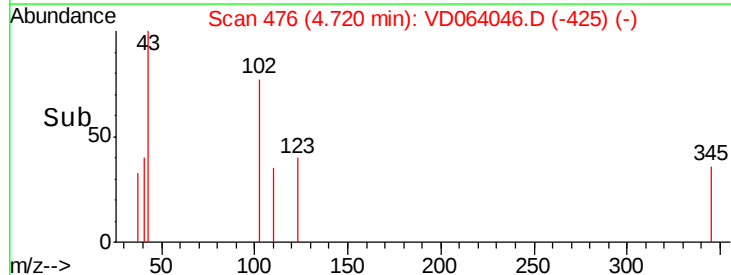
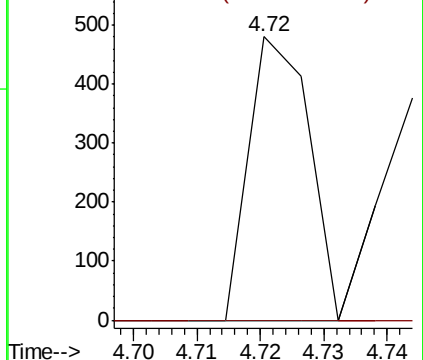
43 100

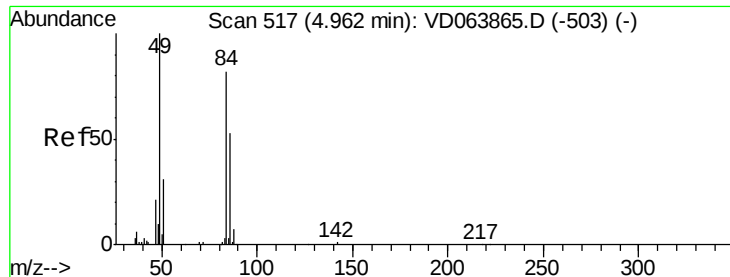
74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

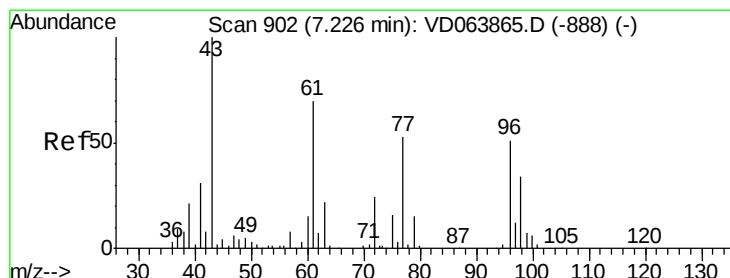
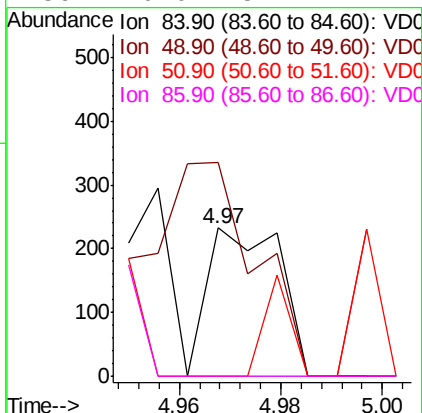
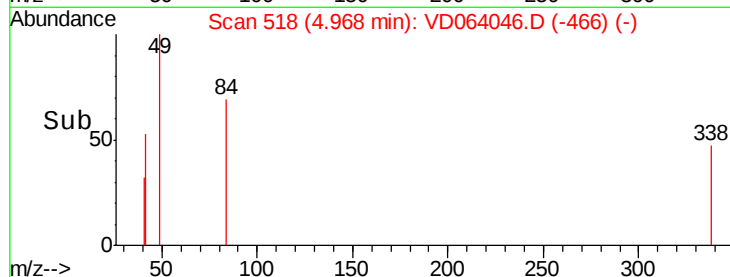
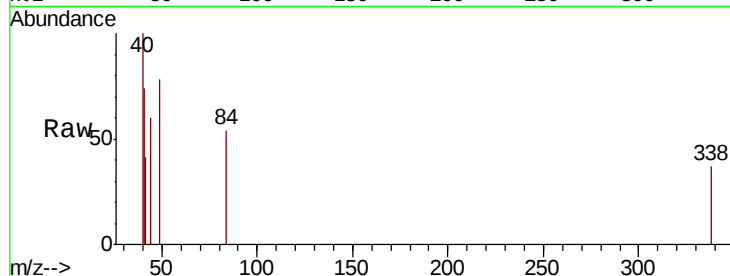




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064046.D
Acq: 24 Oct 2019 14:54

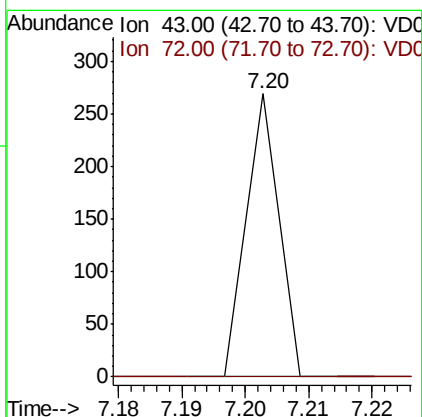
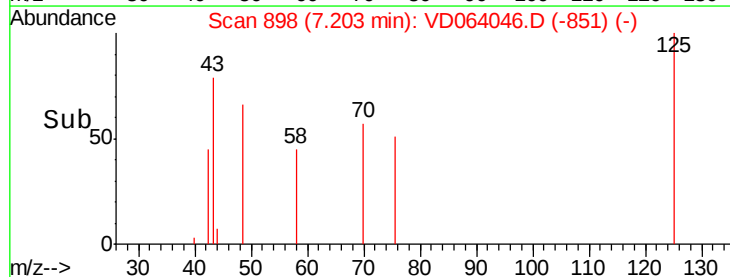
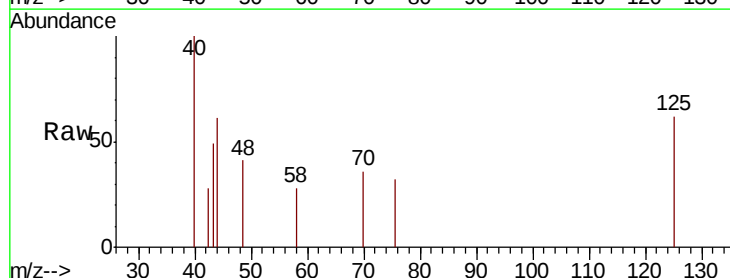
Instrument :
MSVOA_D
ClientSampled :

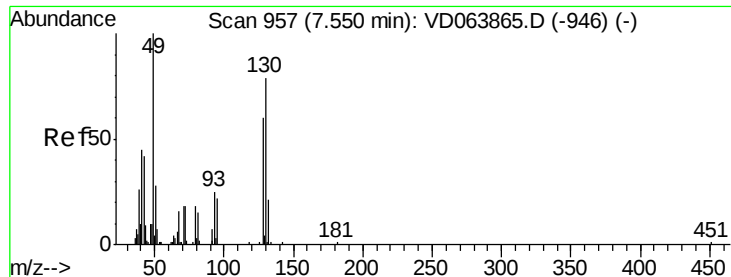
Tot Ion: 84 Resp: 230
Ion Ratio Lower Upper
84 100
49 144.4 97.3 145.9
51 0.0 30.1 45.1#
86 0.0 51.4 77.2#



#25
2-Butanone
Concen: 1.653 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.02 min
Lab File: VD064046.D
Acq: 24 Oct 2019 14:54

Tgt Ion: 43 Resp: 95
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#

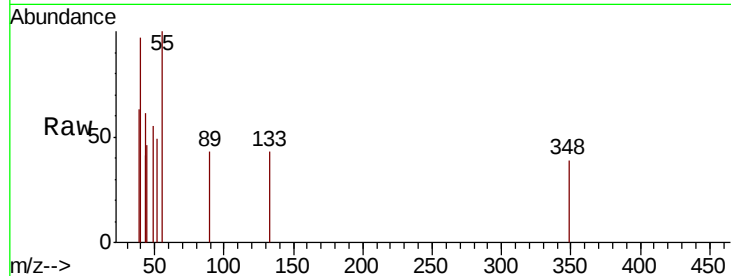




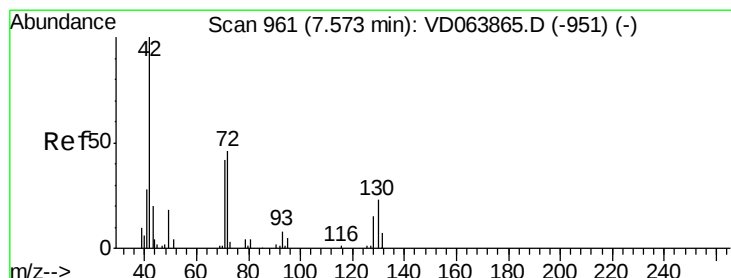
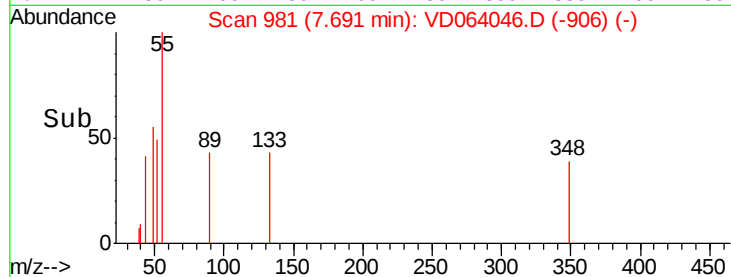
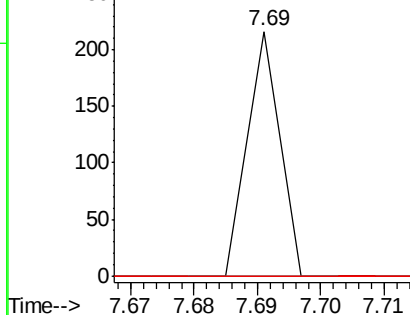
#28
Bromochloromethane
Concen: 2.438 ug/l
RT: 7.69 min Scan# 981
Delta R.T. 0.14 min
Lab File: VD064046.D
Acq: 24 Oct 2019 14:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 49 Resp: 76
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 0.0 66.8 100.2#

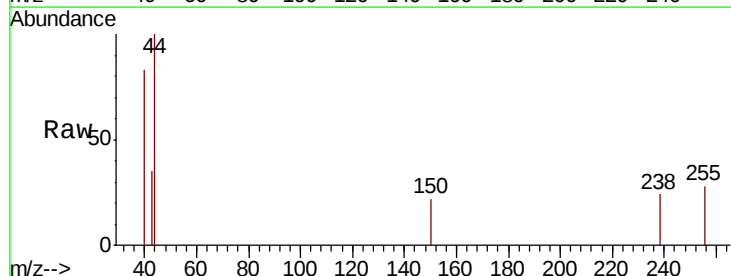


Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC

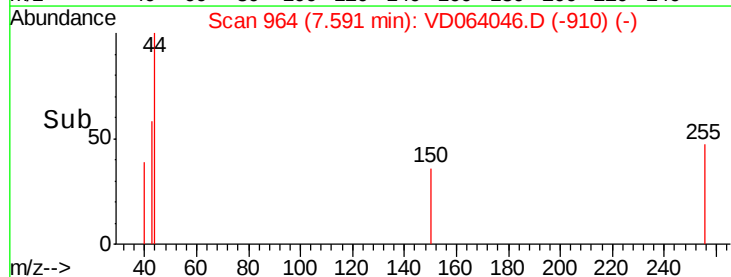
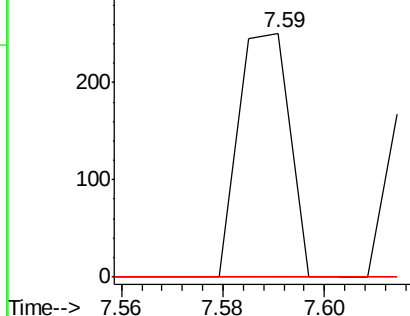


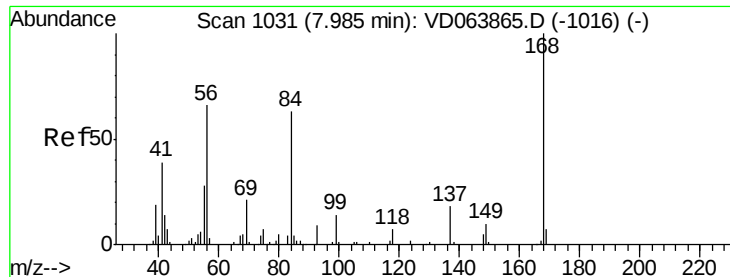
#29
Tetrahydrofuran
Concen: 5.216 ug/l
RT: 7.59 min Scan# 964
Delta R.T. 0.02 min
Lab File: VD064046.D
Acq: 24 Oct 2019 14:54

Tgt Ion: 42 Resp: 175
Ion Ratio Lower Upper
42 100
72 0.0 37.6 56.4#
71 0.0 35.0 52.6#



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

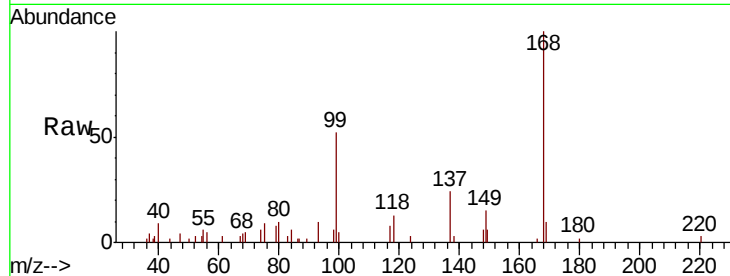




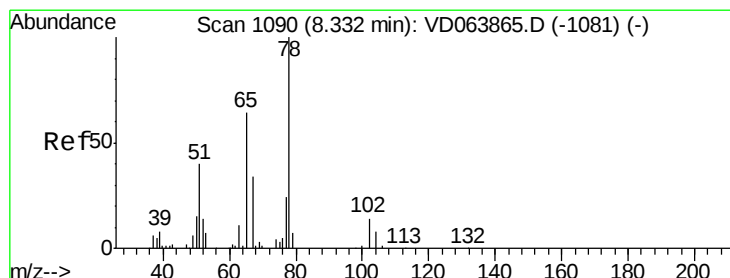
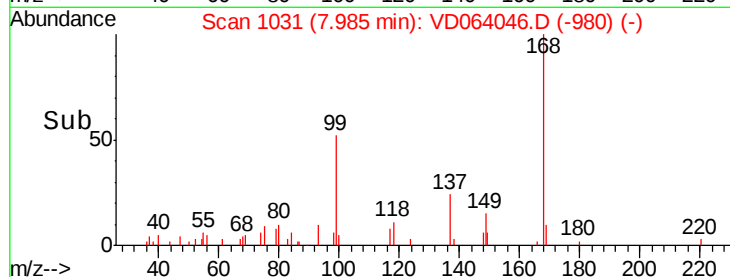
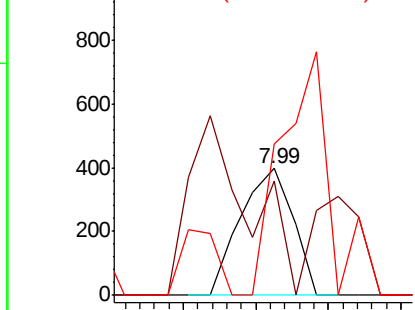
#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064046.D
Acq: 24 Oct 2019 14:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 400
Ion Ratio Lower Upper
56 100
69 12.3 25.0 37.4#
84 119.1 76.3 114.5#

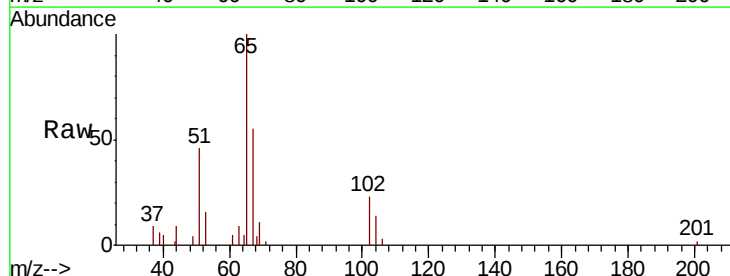


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

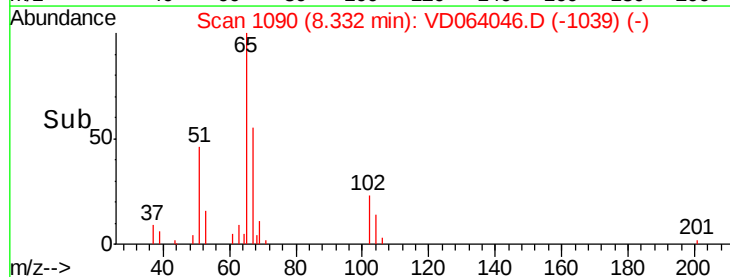
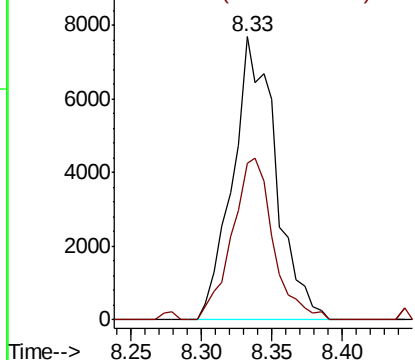


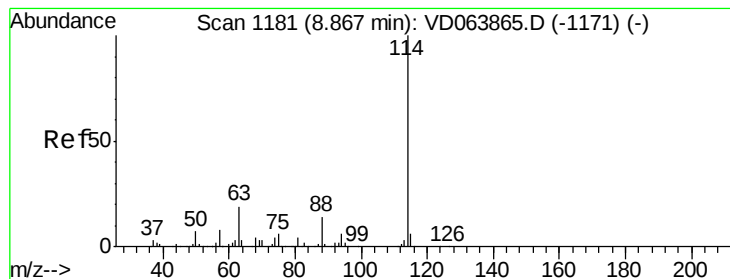
#33
1,2-Dichloroethane-d4
Concen: 88.350 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD064046.D
Acq: 24 Oct 2019 14:54

Tgt Ion: 65 Resp: 16459
Ion Ratio Lower Upper
65 100
67 54.2 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

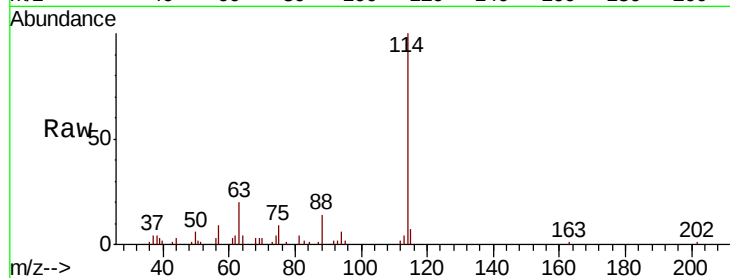
Tot Ion:114 Resp: 36905

Ion Ratio Lower Upper

114 100

63 20.2 0.0 38.4

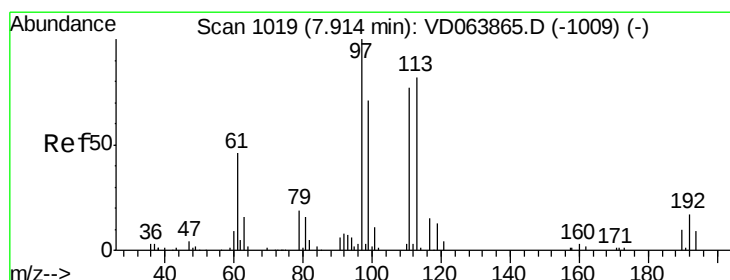
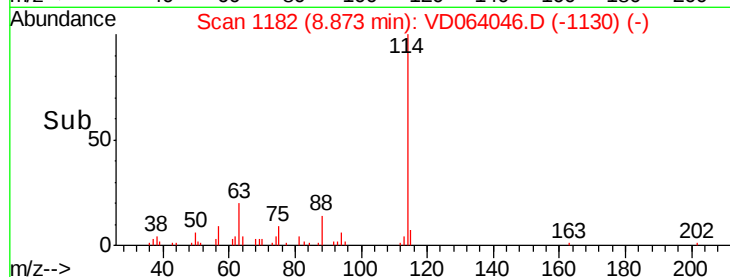
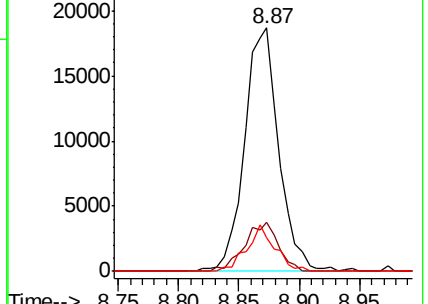
88 13.9 0.0 27.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 56.833 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

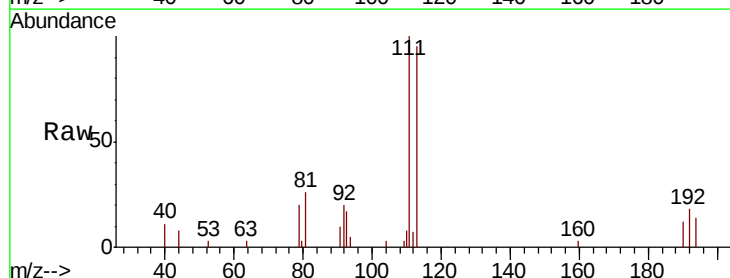
Tgt Ion:113 Resp: 12818

Ion Ratio Lower Upper

113 100

111 108.1 82.6 123.8

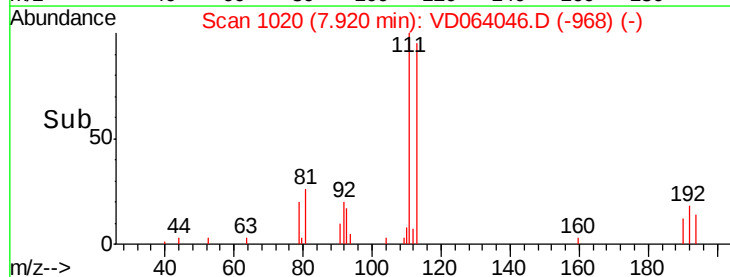
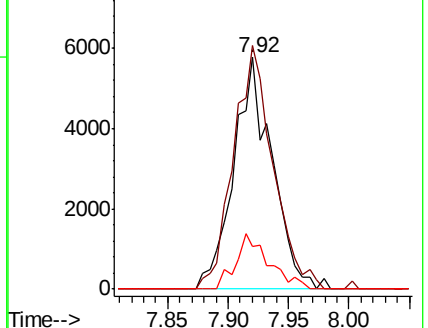
192 20.7 17.1 25.7

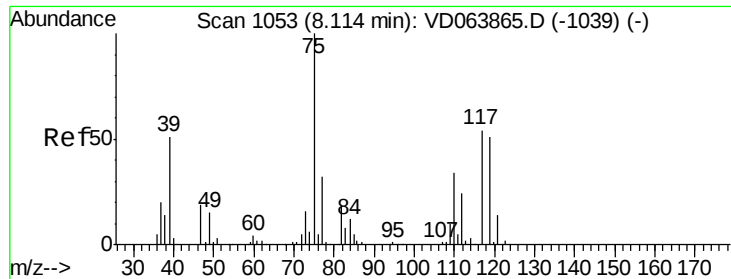


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

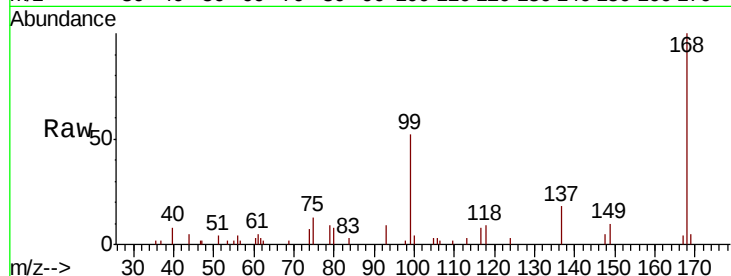




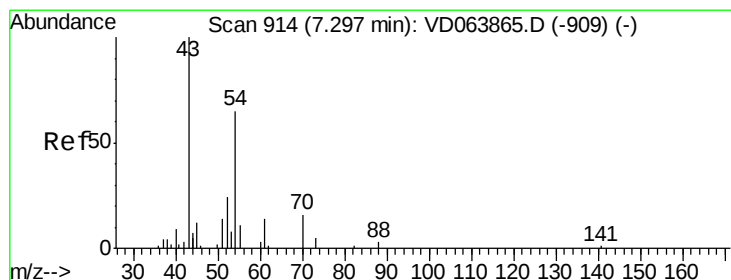
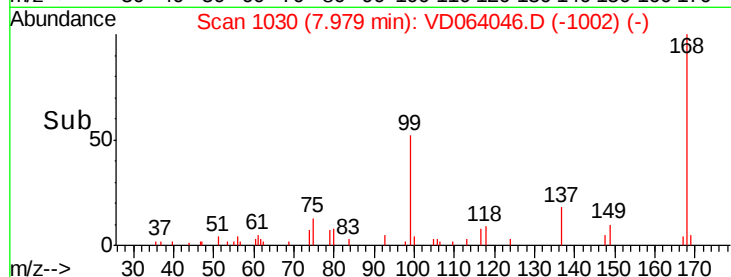
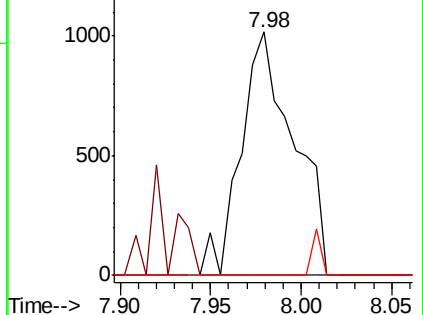
#36
 1,1-Dichloropropene
 Concen: 6.123 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064046.D
 Acq: 24 Oct 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 2066
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.4 52.3#
 77 0.0 25.4 38.0#

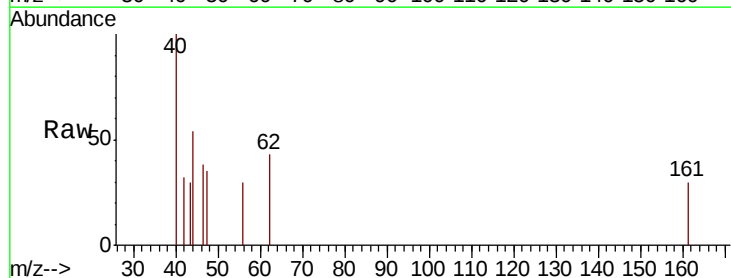


Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.90 (76.60 to 77.60): VDC

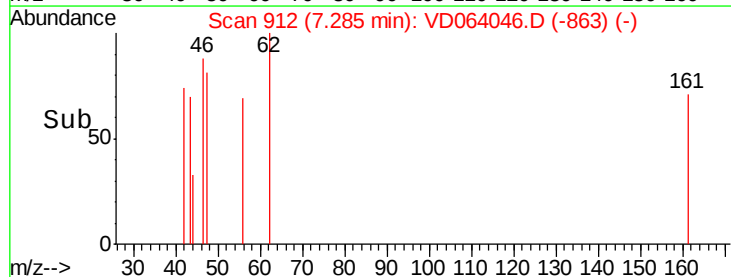
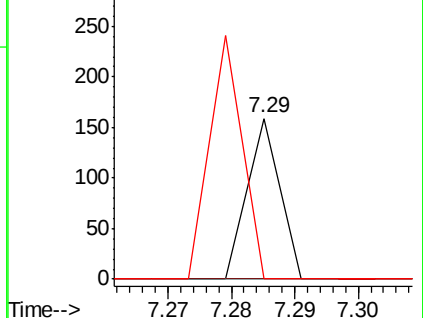


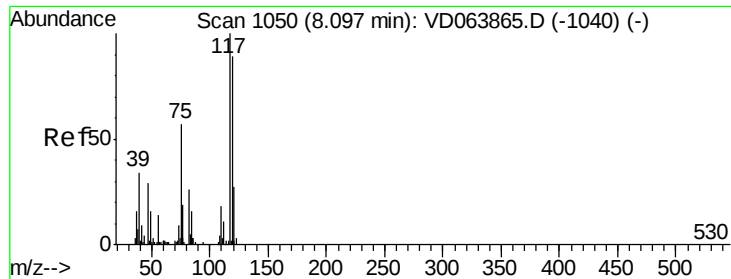
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.29 min Scan# 912
 Delta R.T. -0.01 min
 Lab File: VD064046.D
 Acq: 24 Oct 2019 14:54

Tgt Ion: 43 Resp: 56
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 151.8 8.2 12.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.182 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

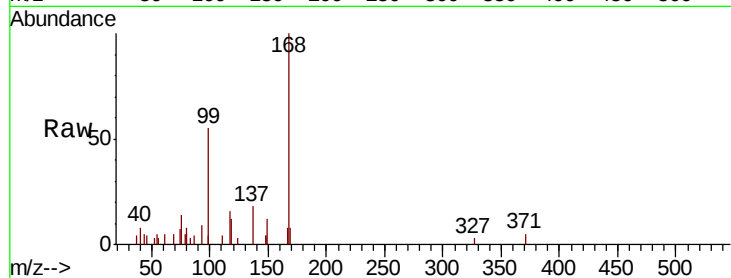
Tot Ion:117 Resp: 1767

Ion Ratio Lower Upper

117 100

119 0.0 70.8 106.2#

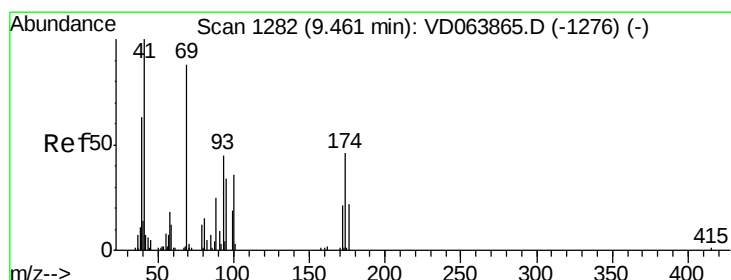
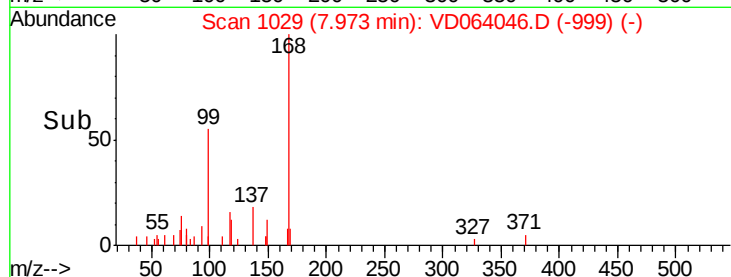
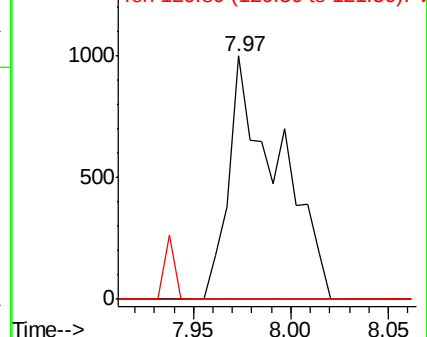
121 0.0 21.4 32.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#48

Methyl methacrylate

Concen: 1.106 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

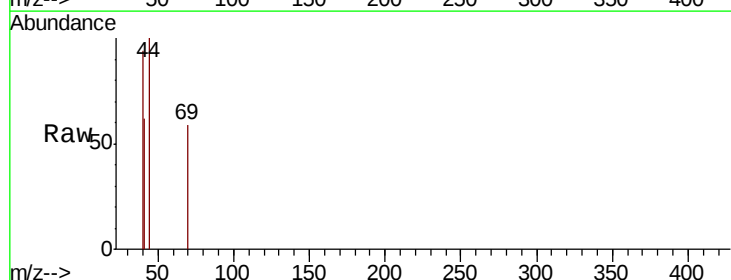
Tgt Ion: 41 Resp: 150

Ion Ratio Lower Upper

41 100

69 54.0 75.1 112.7#

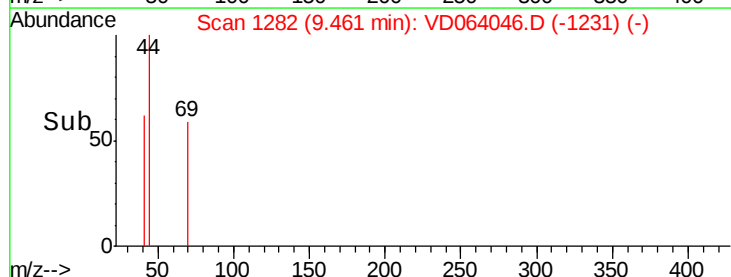
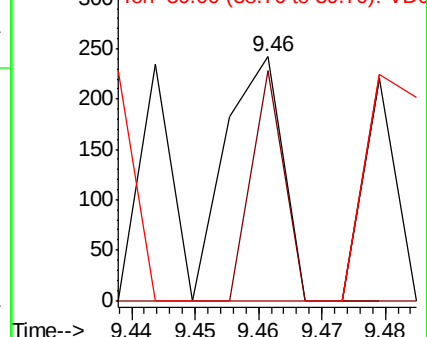
39 0.0 50.2 75.2#

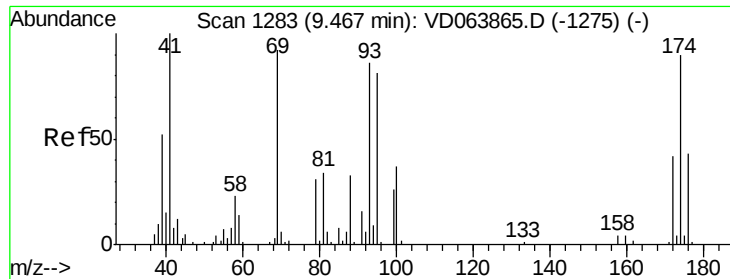


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#49

1,4-Dioxane

Concen: 64.677 ug/l

RT: 9.41 min Scan# 1274

Delta R.T. -0.05 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

Instrument :
MSVOA_D
ClientSampleId :

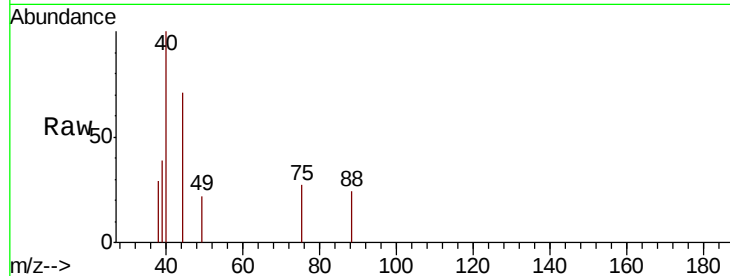
Tot Ion: 88 Resp: 119

Ion Ratio Lower Upper

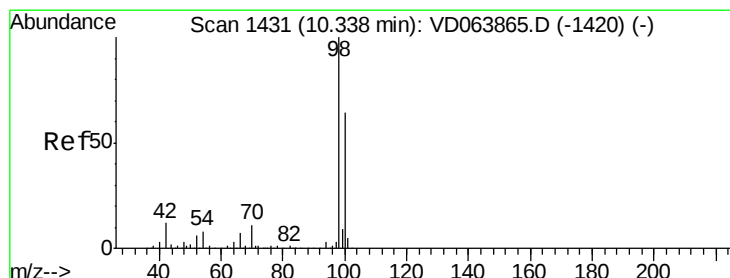
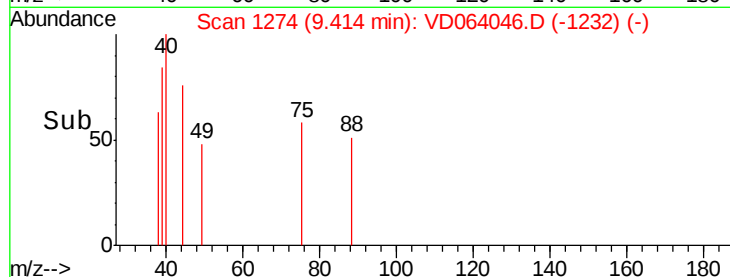
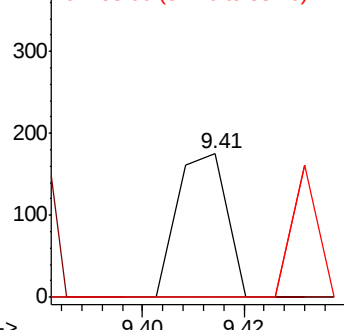
88 100

43 0.0 27.6 41.4#

58 47.9 54.1 81.1#



Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 48.363 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064046.D

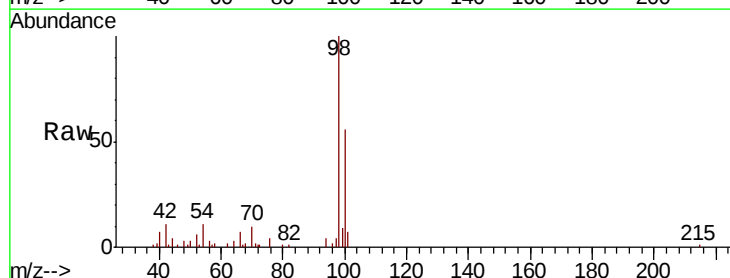
Acq: 24 Oct 2019 14:54

Tgt Ion: 98 Resp: 44273

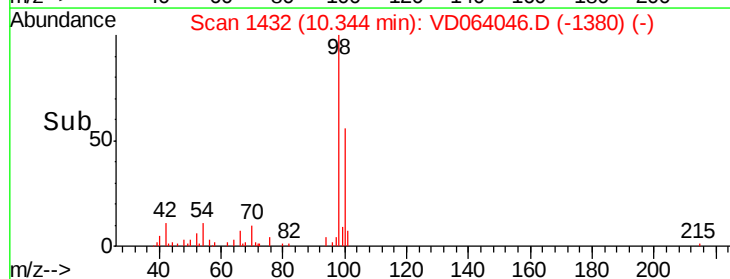
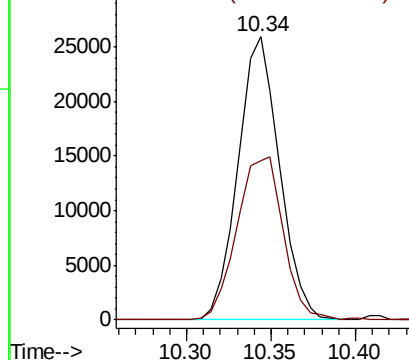
Ion Ratio Lower Upper

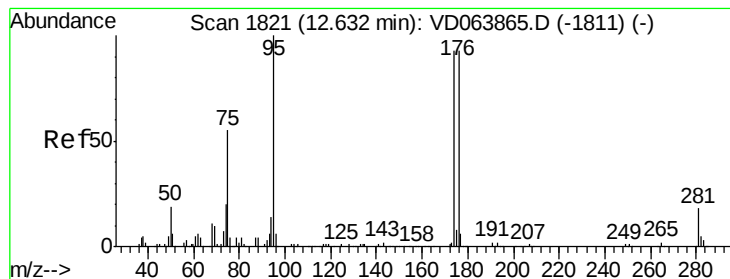
98 100

100 64.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 48.015 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

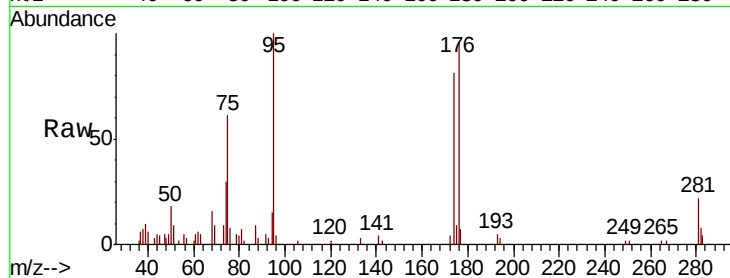
Tot Ion: 95 Resp: 15274

Ion Ratio Lower Upper

95 100

174 90.6 0.0 186.4

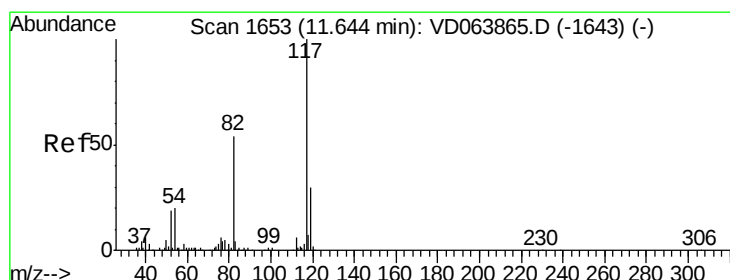
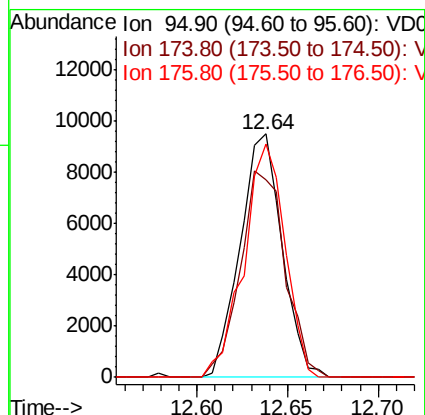
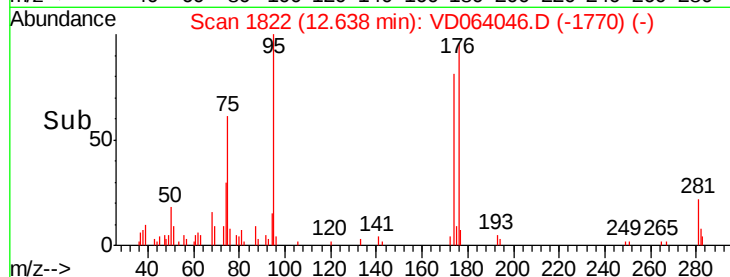
176 94.1 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

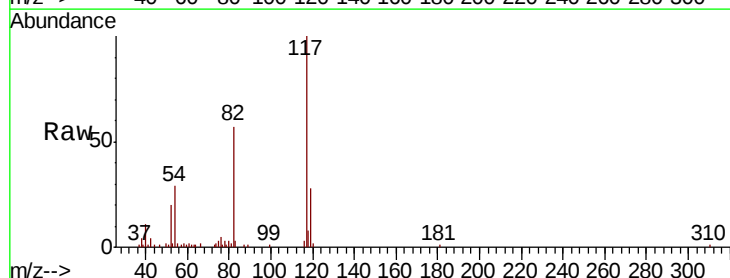
Tgt Ion: 117 Resp: 38027

Ion Ratio Lower Upper

117 100

82 57.0 42.8 64.2

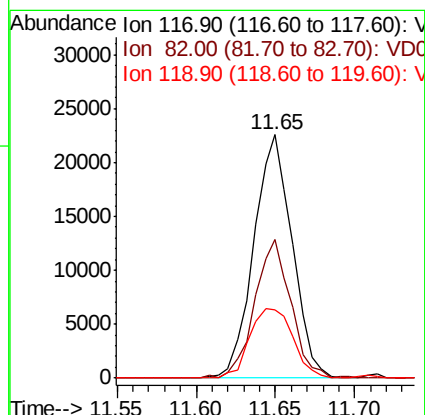
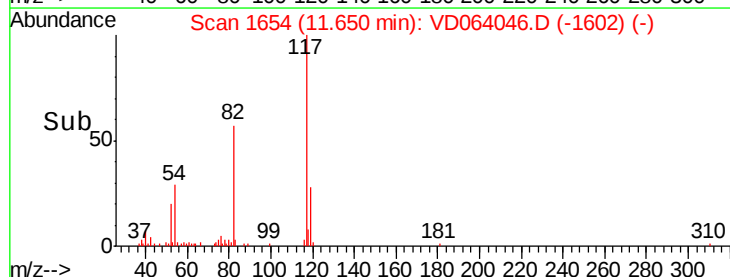
119 27.9 24.4 36.6

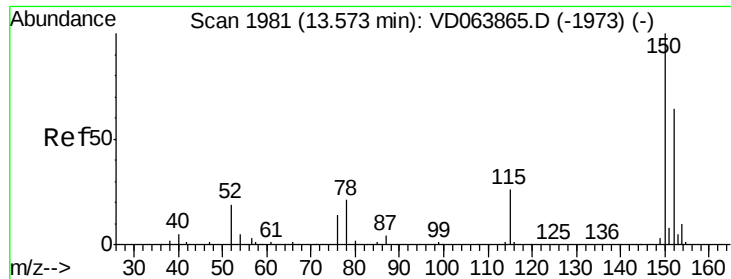


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

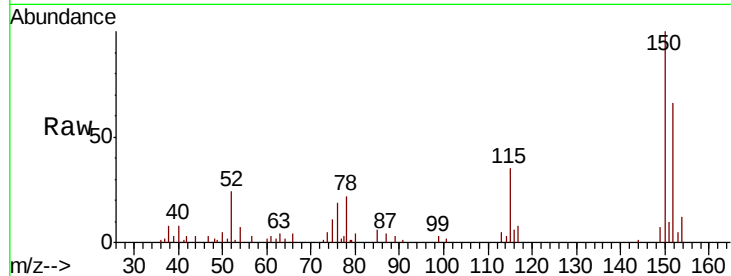
Tot Ion:152 Resp: 18390

Ion Ratio Lower Upper

152 100

115 55.3 25.9 77.7

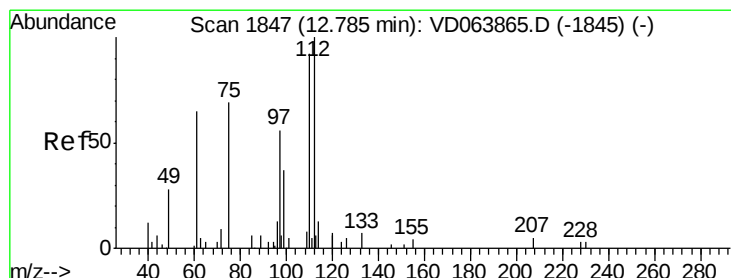
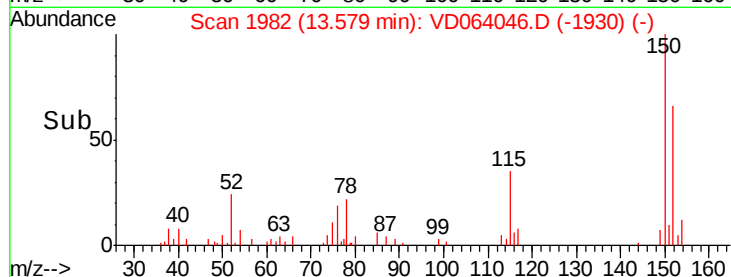
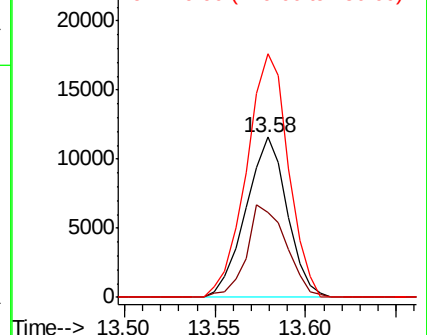
150 153.5 0.0 344.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 73.938 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064046.D

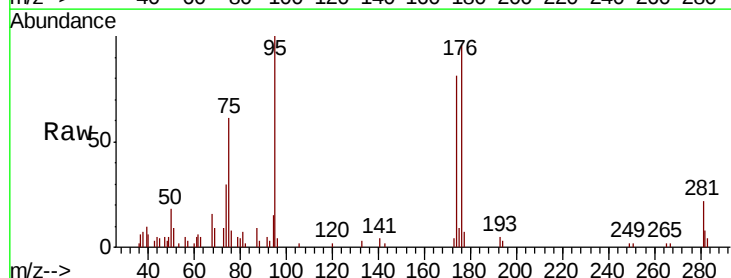
Acq: 24 Oct 2019 14:54

Tgt Ion: 75 Resp: 9107

Ion Ratio Lower Upper

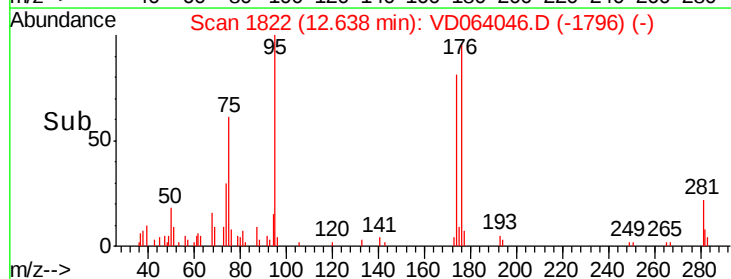
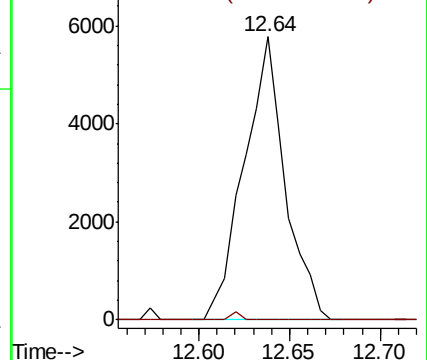
75 100

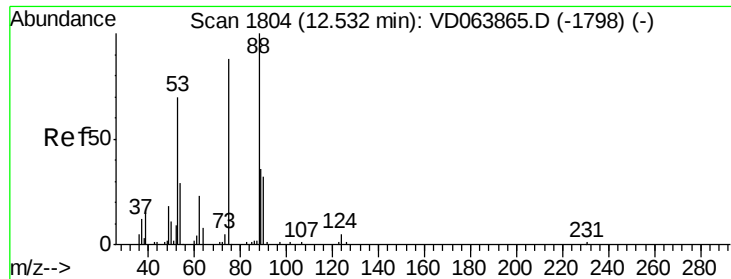
77 0.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 130.840 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064046.D

Acq: 24 Oct 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 9107

Ion Ratio Lower Upper

75 100

53 0.9 75.0 112.6#

89 0.0 38.2 57.4#

