

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101119\
 Data File : VD063938.D
 Acq On : 11 Oct 2019 15:43
 Operator : VA/SY
 Sample : K5325-03
 Misc : 6.68G/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 10-10-C

Quant Time: Oct 12 01:37:24 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	3006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	5397	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	4387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	2281	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	2086	71.28	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	142.56%	
35) Dibromofluoromethane	7.91	113	1895	57.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	114.90%	
50) Toluene-d8	10.34	98	6238	46.60	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.20%	
62) 4-Bromofluorobenzene	12.63	95	2436	52.36	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.23	85	58	2.721	ug/l #	47
4) Vinyl Chloride	2.32	62	143	2.075	ug/l #	43
5) Bromomethane	2.72	94	55	1.242	ug/l #	5
6) Chloroethane	2.94	64	138	3.029	ug/l #	46
8) Diethyl Ether	3.81	74	55	3.762	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	3.94	101	68	2.697	ug/l #	16
11) Tert butyl alcohol	5.18	59	101	43.037	ug/l #	71
12) 1,1-Dichloroethene	4.20	96	54	2.143	ug/l #	1
13) Acrolein	3.86	56	53	20.277	ug/l #	46
14) Allyl chloride	4.74	41	56	1.337	ug/l #	1
15) Acrylonitrile	5.29	53	86	13.341	ug/l #	17
16) Acetone	4.17	43	56	7.350	ug/l #	42
18) Methyl Acetate	4.67	43	132	8.857	ug/l #	49
19) Methyl tert-butyl Ether	5.51	73	72	1.104	ug/l #	53
20) Methylene Chloride	4.96	84	61	Below Cal	#	7
21) trans-1,2-Dichloroethene	5.45	96	55	1.754	ug/l #	1
23) Vinyl Acetate	6.34	43	241	4.736	ug/l #	71
24) 1,1-Dichloroethane	6.27	63	58	1.101	ug/l #	82
25) 2-Butanone	7.25	43	60	6.645	ug/l #	51
26) 2,2-Dichloropropane	7.16	77	60	1.259	ug/l #	53
27) cis-1,2-Dichloroethene	7.19	96	90	2.535	ug/l #	18
28) Bromochloromethane	7.49	49	76	5.517	ug/l #	10
29) Tetrahydrofuran	7.55	42	150	28.460	ug/l #	31
30) Chloroform	7.59	83	71	1.241	ug/l #	20
31) Cyclohexane	7.99	56	78	Below Cal	#	12
36) 1,1-Dichloropropene	8.07	75	54	1.094	ug/l #	41
37) Ethyl Acetate	7.27	43	77	Below Cal	#	68
38) Carbon Tetrachloride	7.99	117	60	1.203	ug/l #	15
41) Methacrylonitrile	7.54	41	62	5.419	ug/l #	26
42) 1,2-Dichloroethane	8.44	62	79	1.931	ug/l #	73
43) Isopropyl Acetate	8.51	43	201	4.857	ug/l #	49
45) 1,2-Dichloropropane	9.50	63	70	2.022	ug/l #	41
46) Dibromomethane	9.50	93	96	4.870	ug/l #	3
47) Bromodichloromethane	9.81	83	56	1.103	ug/l #	26

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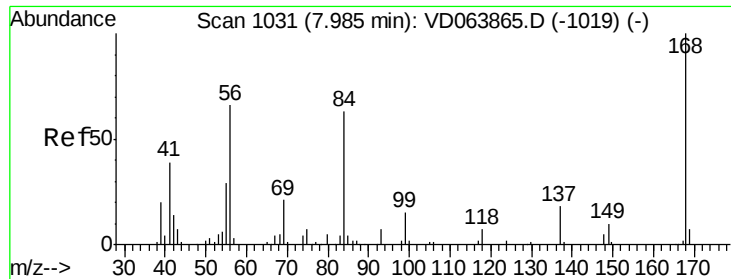
Instrument :
 MSVOA_D
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Quant Time: Oct 12 01:37:24 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

48) Methyl methacrylate	9.46	41	292	14.727	uq/l #	48
51) 4-Methyl-2-Pentanone	10.34	43	195	9.086	uq/l	99
53) t-1,3-Dichloropropene	10.72	75	205	4.139	uq/l #	46
54) cis-1,3-Dichloropropene	10.10	75	60	1.052	uq/l #	33
55) 1,1,2-Trichloroethane	10.81	97	192	6.898	uq/l #	14
56) Ethyl methacrylate	10.57	69	89	2.525	uq/l #	1
57) 1,3-Dichloropropane	10.96	76	67	1.407	uq/l #	41
58) 2-Chloroethyl Vinyl ether	9.76	63	63	4.158	uq/l #	44
59) 2-Hexanone	10.86	43	148	9.533	uq/l	64
60) Dibromochloromethane	11.01	129	60	1.656	uq/l #	9
74) N-amyl acetate	12.31	43	261	7.906	uq/l #	41
75) 1,1,2,2-Tetrachloroethane	12.71	83	72	2.698	uq/l #	26
76) 1,2,3-Trichloropropane	12.77	75	59	3.862	uq/l #	100
81) trans-1,4-Dichloro-2-buten	12.50	75	61	7.066	uq/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.47	75	139	32.676	uq/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

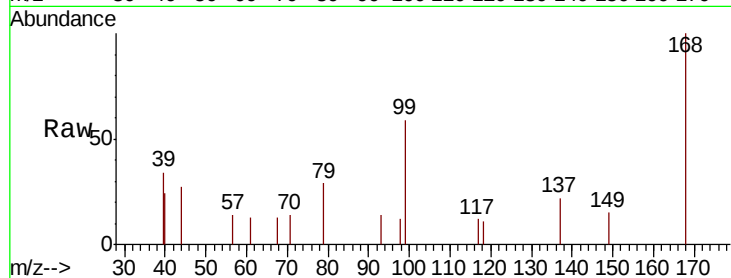
10-10-C

Tot Ion:168 Resp: 3006

Ion Ratio Lower Upper

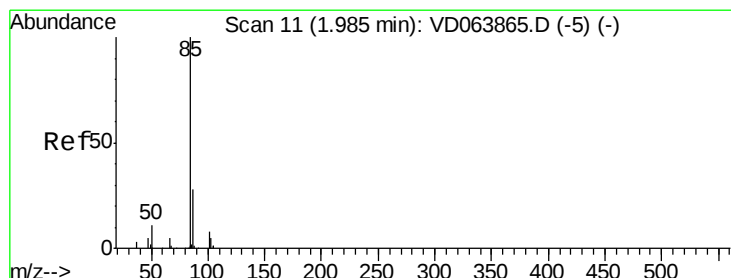
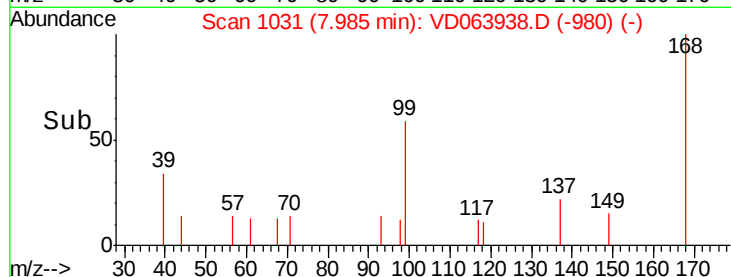
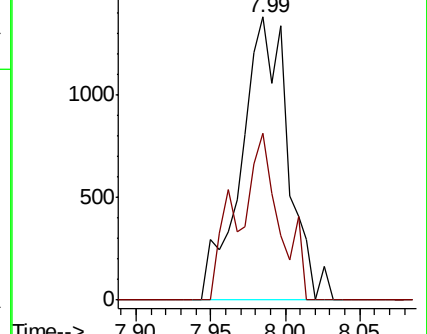
168 100

99 59.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 2.721 ug/l

RT: 2.23 min Scan# 53

Delta R.T. 0.25 min

Lab File: VD063938.D

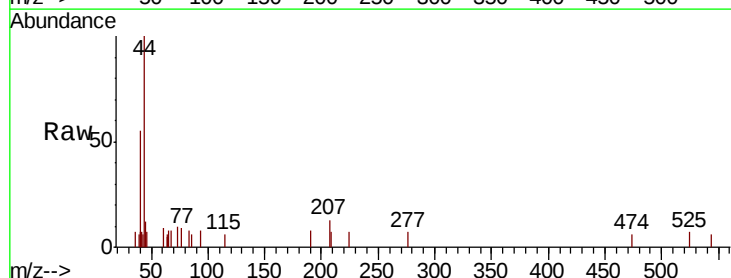
Acq: 11 Oct 2019 15:43

Tgt Ion: 85 Resp: 58

Ion Ratio Lower Upper

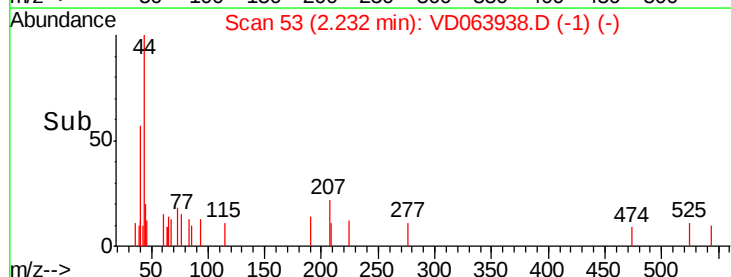
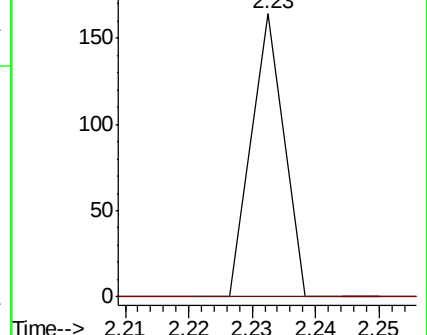
85 100

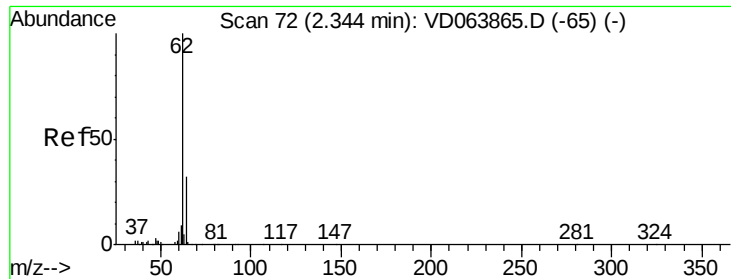
87 0.0 14.0 42.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#4

Vinyl Chloride

Concen: 2.075 ug/l

RT: 2.32 min Scan# 68

Delta R.T. -0.02 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampled :

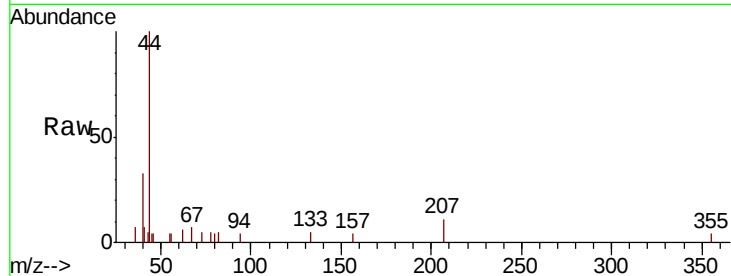
10-10-C

Tot Ion: 62 Resp: 143

Ion Ratio Lower Upper

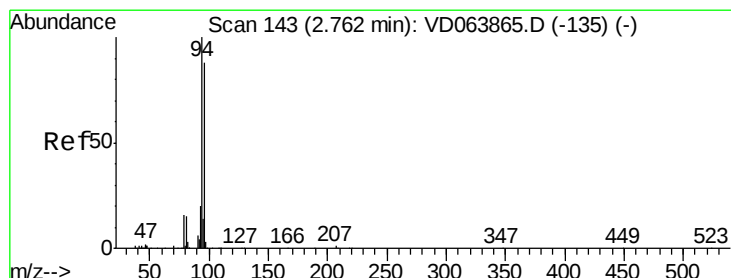
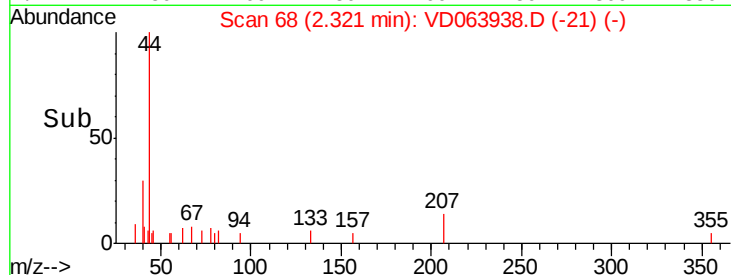
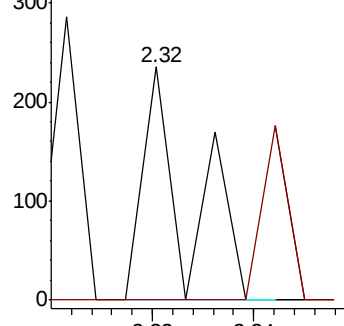
62 100

64 0.0 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC



#5

Bromomethane

Concen: 1.242 ug/l

RT: 2.72 min Scan# 136

Delta R.T. -0.04 min

Lab File: VD063938.D

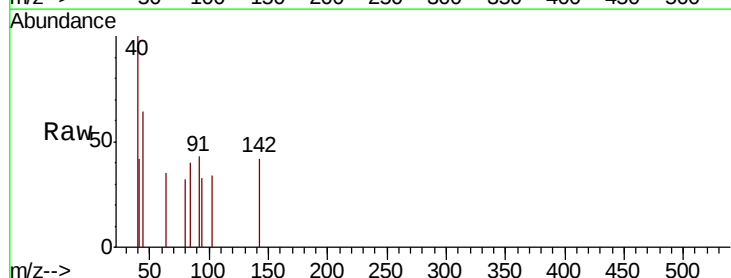
Acq: 11 Oct 2019 15:43

Tgt Ion: 94 Resp: 55

Ion Ratio Lower Upper

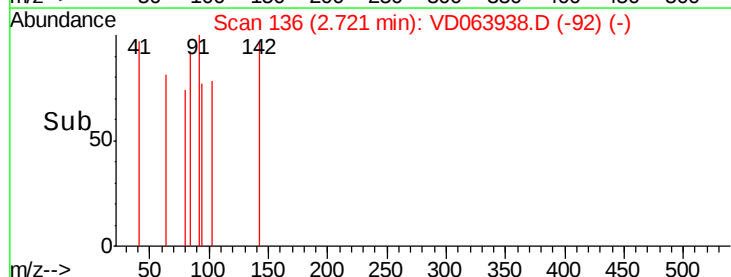
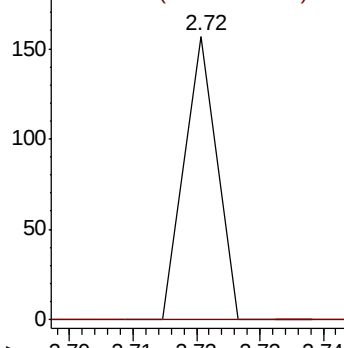
94 100

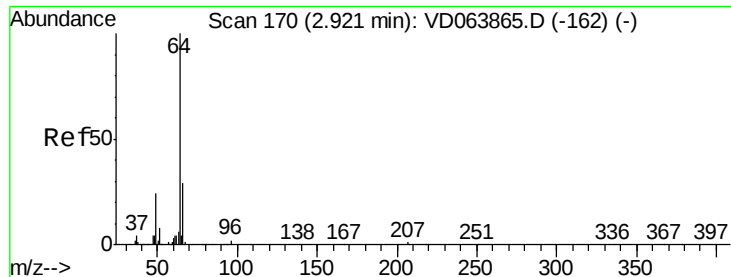
96 0.0 70.8 106.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#6

Chloroethane

Concen: 3.029 ug/l

RT: 2.94 min Scan# 174

Delta R.T. 0.02 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

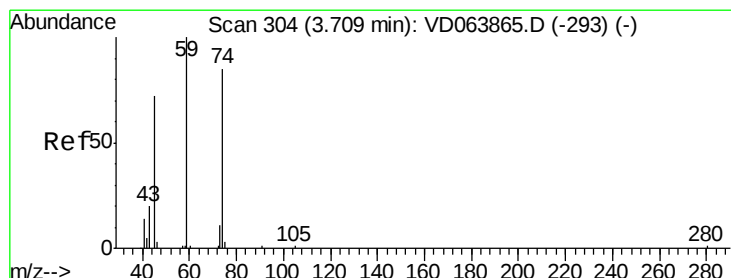
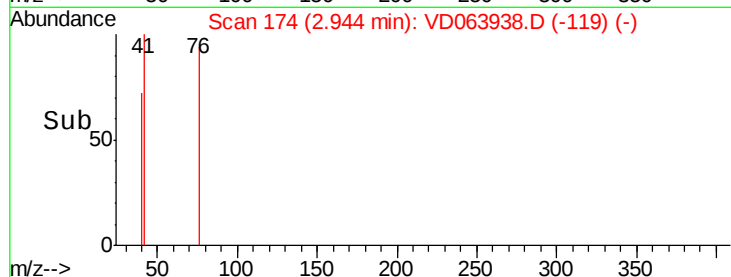
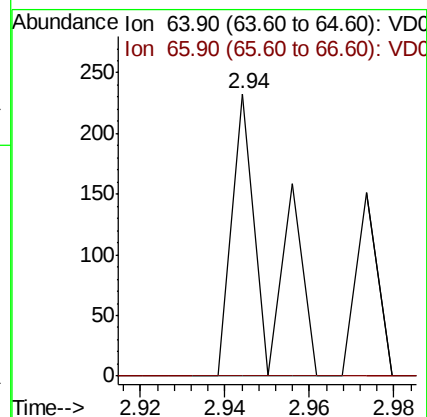
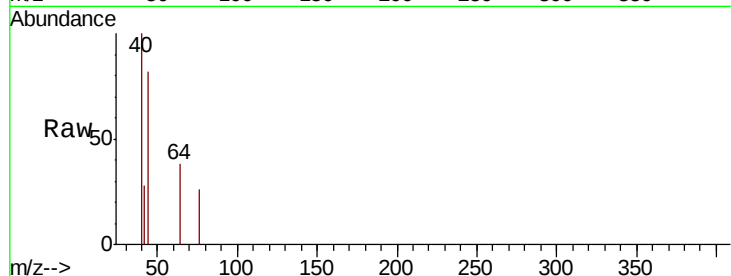
10-10-C

Tot Ion: 64 Resp: 138

Ion Ratio Lower Upper

64 100

66 0.0 23.0 34.4#



#8

Diethyl Ether

Concen: 3.762 ug/l

RT: 3.81 min Scan# 321

Delta R.T. 0.10 min

Lab File: VD063938.D

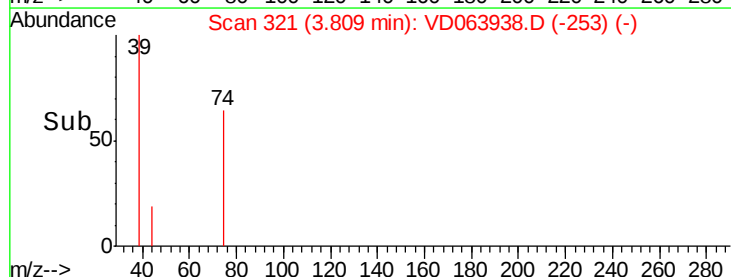
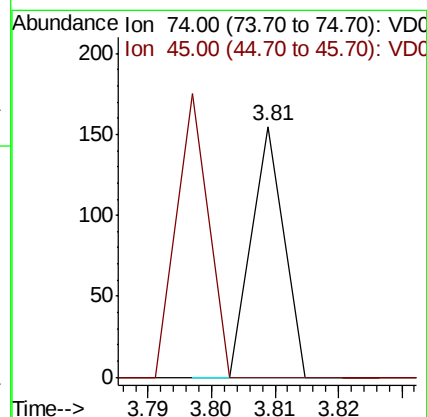
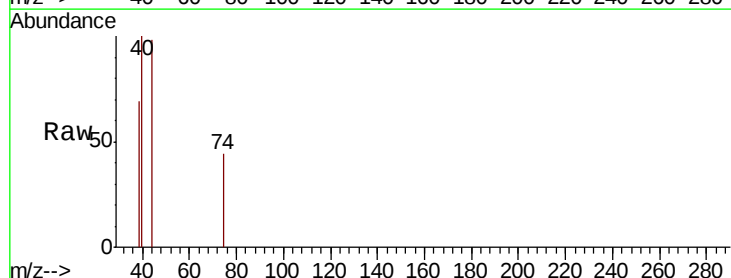
Acq: 11 Oct 2019 15:43

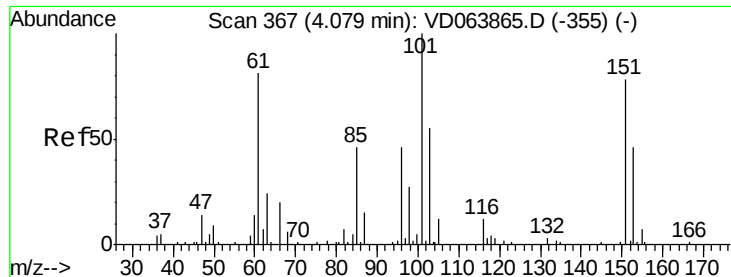
Tgt Ion: 74 Resp: 55

Ion Ratio Lower Upper

74 100

45 112.7 48.1 144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.697 ug/l

RT: 3.94 min Scan# 344

Delta R.T. -0.14 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

10-10-C

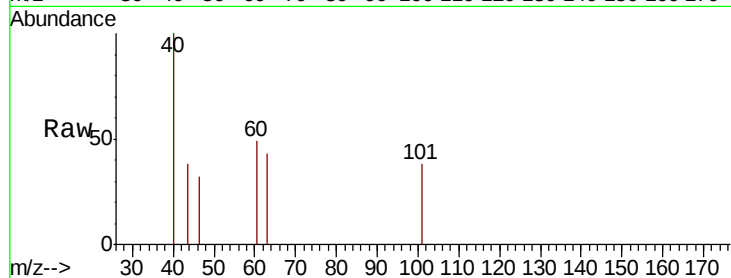
Tot Ion:101 Resp: 68

Ion Ratio Lower Upper

101 100

85 0.0 37.5 56.3#

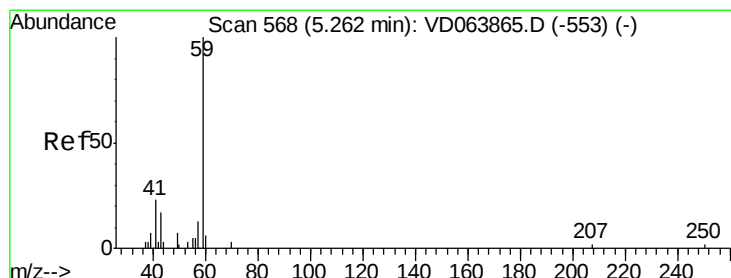
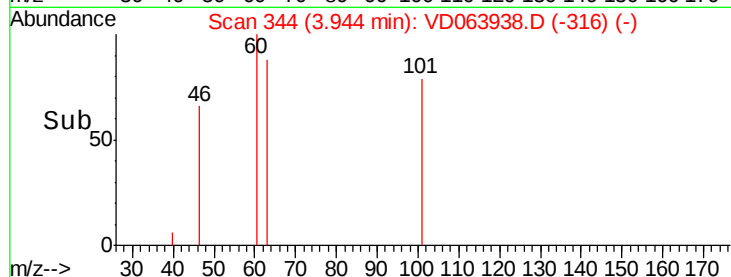
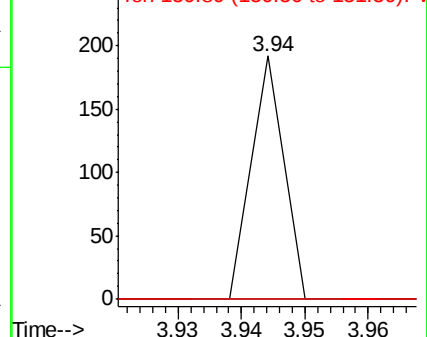
151 0.0 65.5 98.3#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VDC

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 43.037 ug/l

RT: 5.18 min Scan# 554

Delta R.T. -0.08 min

Lab File: VD063938.D

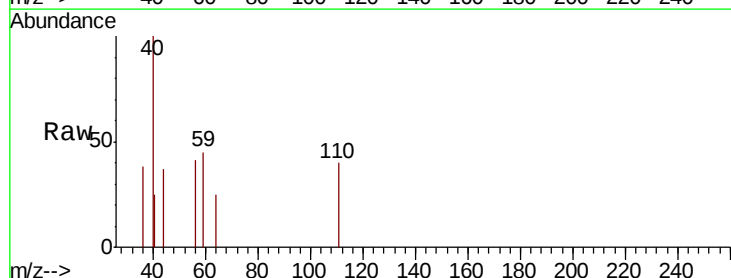
Acq: 11 Oct 2019 15:43

Tgt Ion: 59 Resp: 101

Ion Ratio Lower Upper

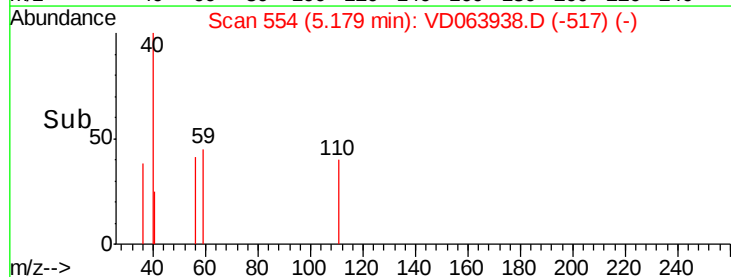
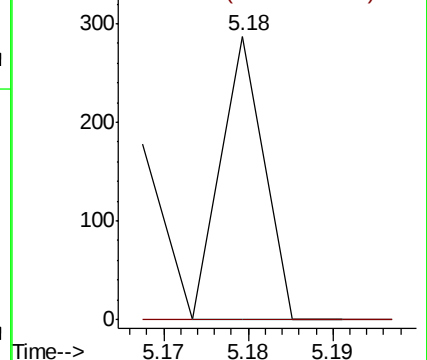
59 100

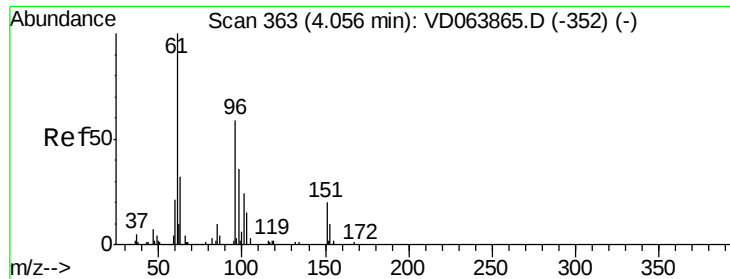
57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#12

1,1-Dichloroethene

Concen: 2.143 ug/l

RT: 4.20 min Scan# 388

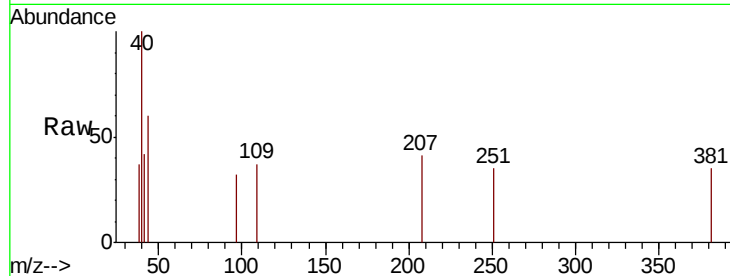
Delta R.T. 0.15 min

Lab File: VD063938.D

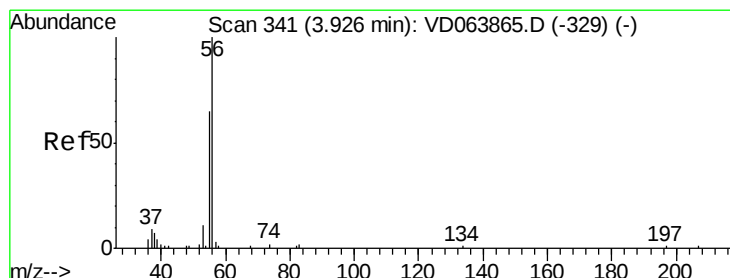
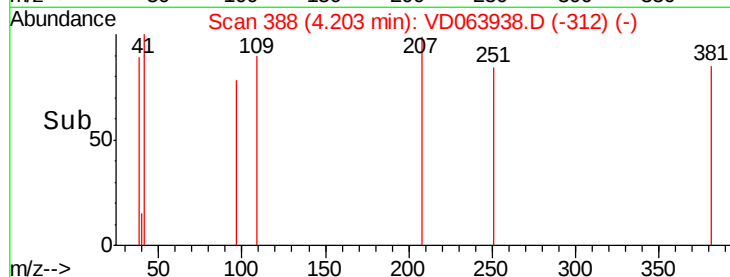
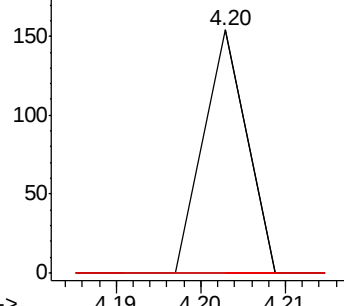
Acq: 11 Oct 2019 15:43

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10-10-C

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	135.6	203.4#
98	0.0	49.2	73.8#



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#13

Acrolein

Concen: 20.277 ug/l

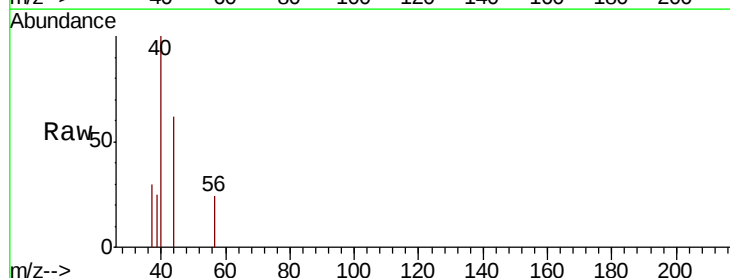
RT: 3.86 min Scan# 330

Delta R.T. -0.06 min

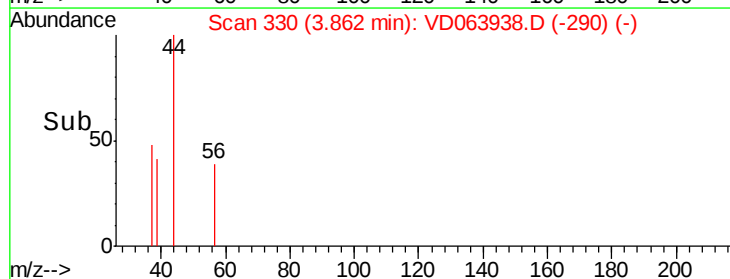
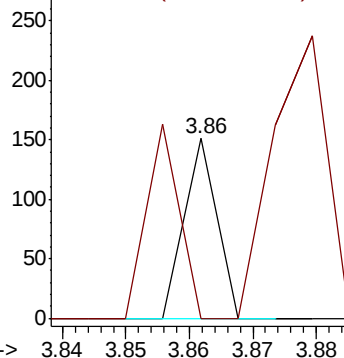
Lab File: VD063938.D

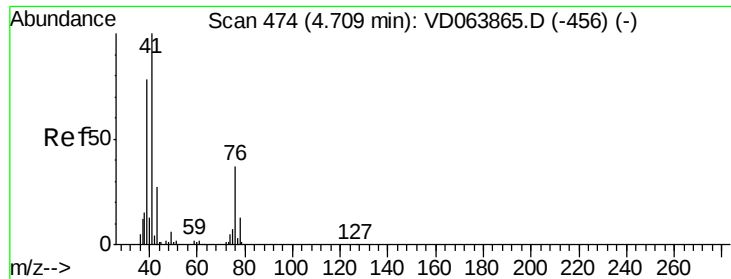
Acq: 11 Oct 2019 15:43

Tgt Ion	Ratio	Lower	Upper
56	100		
55	109.4	53.0	79.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 55.00 (54.70 to 55.70): VDC

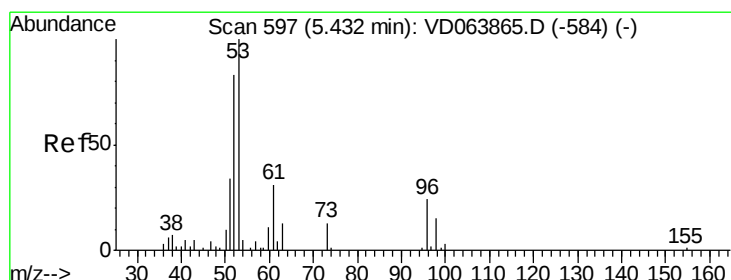
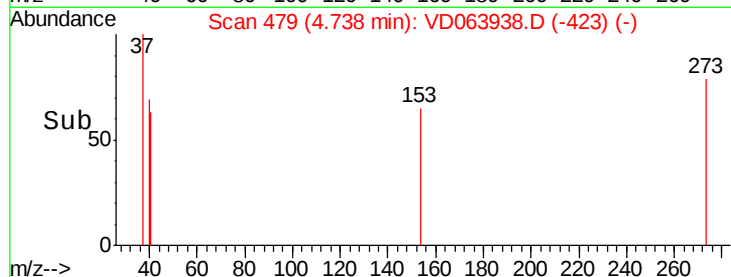
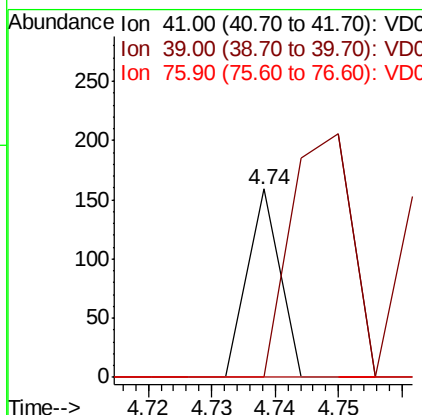
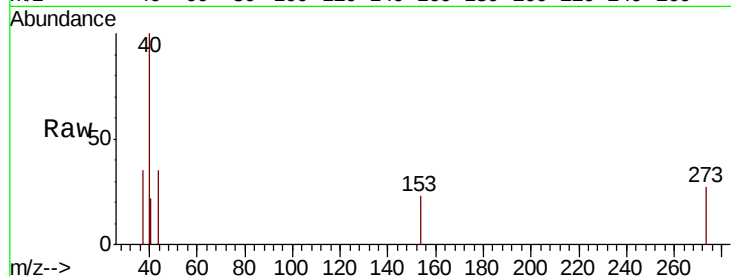




#14
 Allvl chloride
 Concen: 1.337 ug/l
 RT: 4.74 min Scan# 479
 Delta R.T. 0.03 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

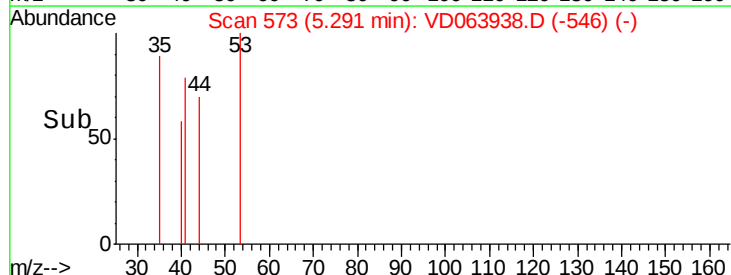
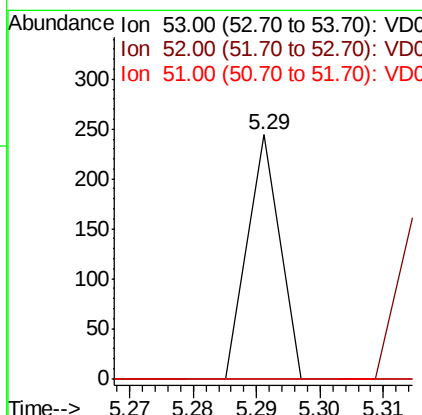
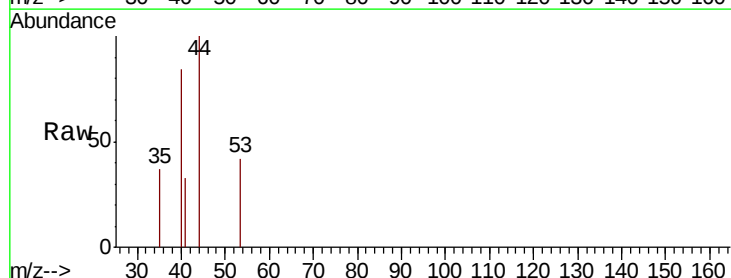
Instrument :
 MSVOA_D
 ClientSampled :
 10-10-C

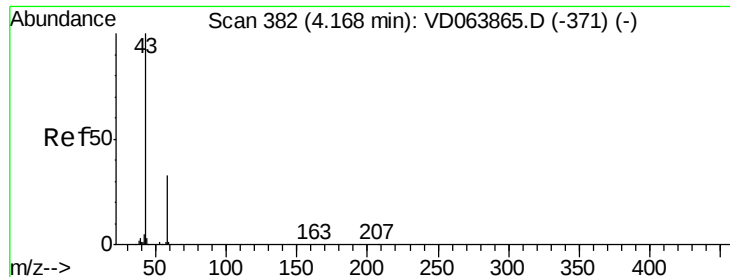
Tot Ion: 41 Resp: 56
 Ion Ratio Lower Upper
 41 100
 39 246.4 61.8 92.6#
 76 0.0 31.3 46.9#



#15
 Acrylonitrile
 Concen: 13.341 ug/l
 RT: 5.29 min Scan# 573
 Delta R.T. -0.14 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

Tgt Ion: 53 Resp: 86
 Ion Ratio Lower Upper
 53 100
 52 0.0 67.3 100.9#
 51 0.0 30.5 45.7#





#16

Acetone

Concen: 7.350 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

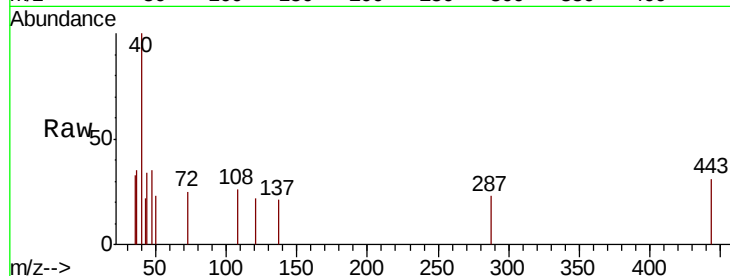
10-10-C

Tot Ion: 43 Resp: 56

Ion Ratio Lower Upper

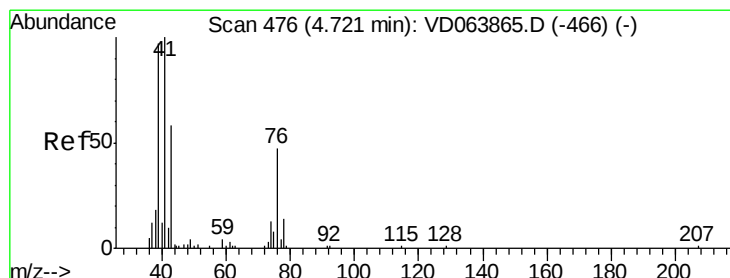
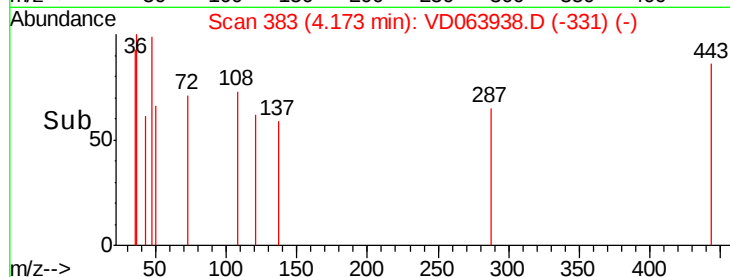
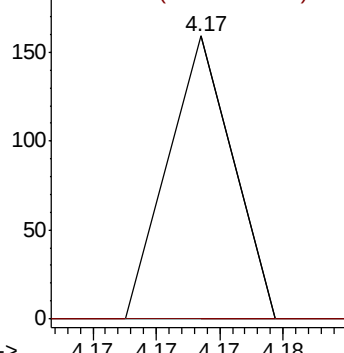
43 100

58 0.0 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: 8.857 ug/l

RT: 4.67 min Scan# 468

Delta R.T. -0.05 min

Lab File: VD063938.D

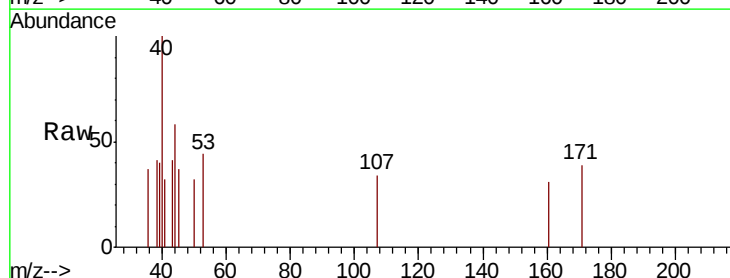
Acq: 11 Oct 2019 15:43

Tgt Ion: 43 Resp: 132

Ion Ratio Lower Upper

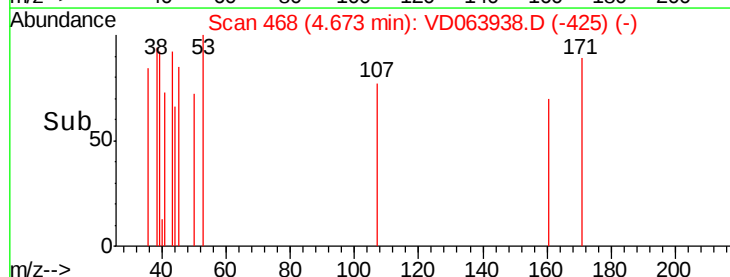
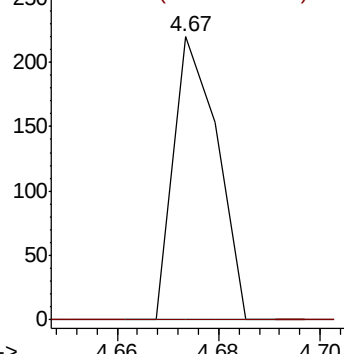
43 100

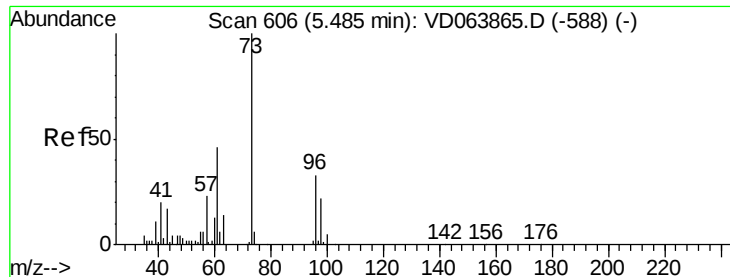
74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC



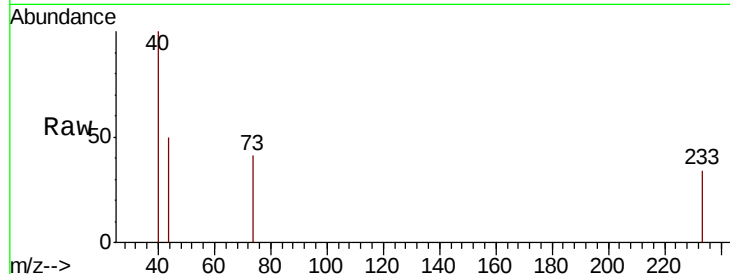


#19

Methyl tert-butyl Ether
 Concen: 1.104 ug/l
 RT: 5.51 min Scan# 611
 Delta R.T. 0.03 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

Instrument :
 MSVOA_D
 ClientSampleId :
 10-10-C

Tot Ion: 73 Resp: 72
 Ion Ratio Lower Upper
 73 100
 57 0.0 18.1 27.1#



Abundance Ion 73.00 (72.70 to 73.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC

5.51

200

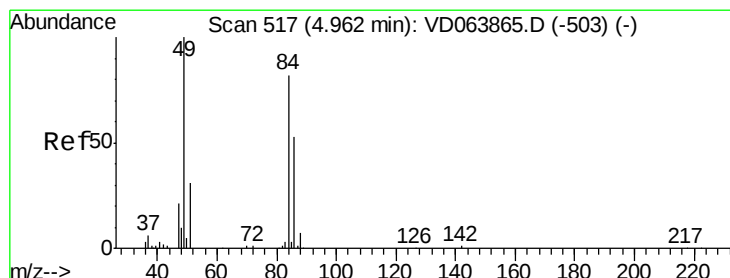
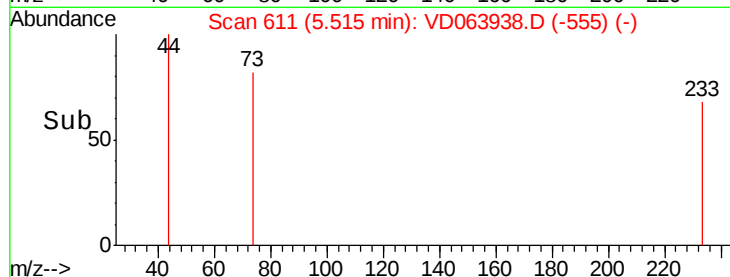
150

100

50

0

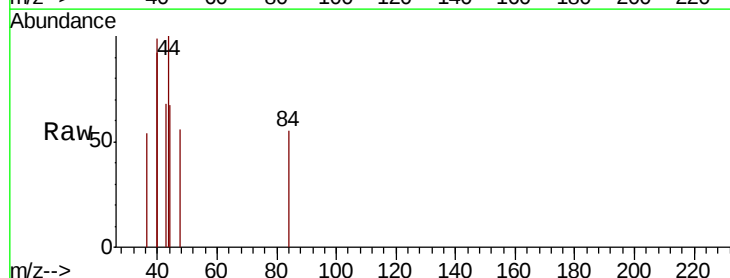
Time-->



#20

Methylene Chloride
 Concen: Below Cal
 RT: 4.96 min Scan# 516
 Delta R.T. -0.01 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

Tgt Ion: 84 Resp: 61
 Ion Ratio Lower Upper
 84 100
 49 0.0 97.3 145.9#
 51 0.0 30.1 45.1#
 86 0.0 51.4 77.2#



Abundance Ion 83.90 (83.60 to 84.60): VDC
 Ion 48.90 (48.60 to 49.60): VDC
 Ion 50.90 (50.60 to 51.60): VDC
 Ion 85.90 (85.60 to 86.60): VDC

4.96

300

250

200

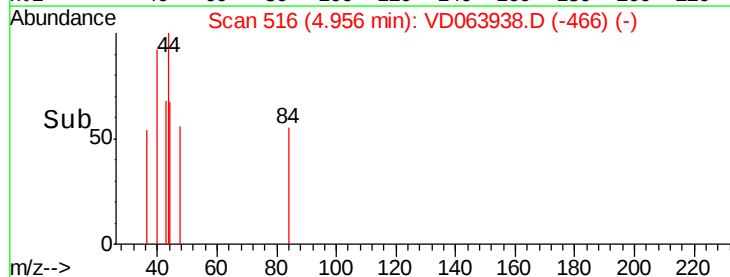
150

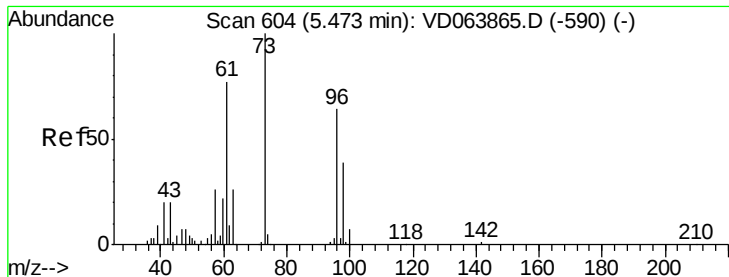
100

50

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 1.754 ug/l

RT: 5.45 min Scan# 600

Delta R.T. -0.02 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

10-10-C

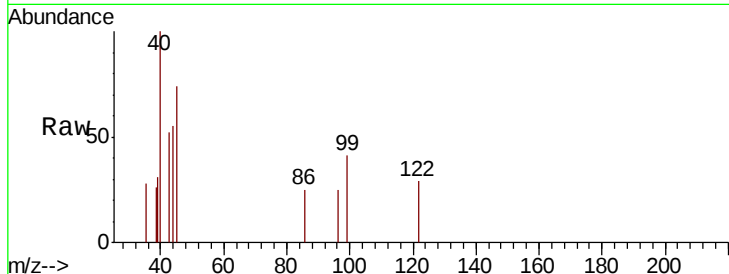
Tot Ion: 96 Resp: 55

Ion Ratio Lower Upper

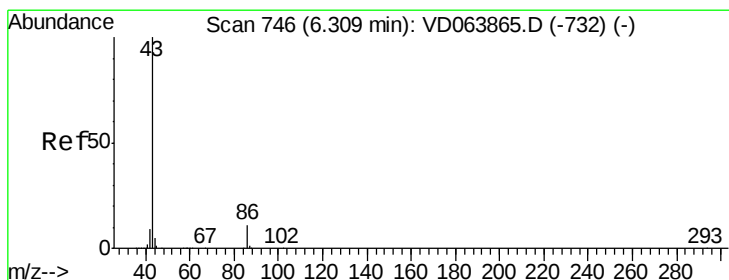
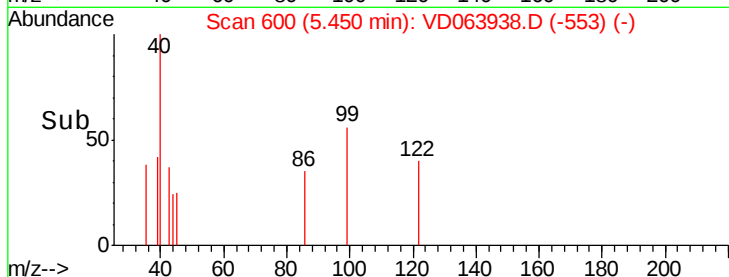
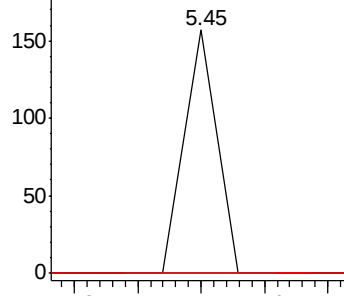
96 100

61 0.0 96.6 145.0#

98 0.0 48.7 73.1#



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#23

Vinyl Acetate

Concen: 4.736 ug/l

RT: 6.34 min Scan# 752

Delta R.T. 0.04 min

Lab File: VD063938.D

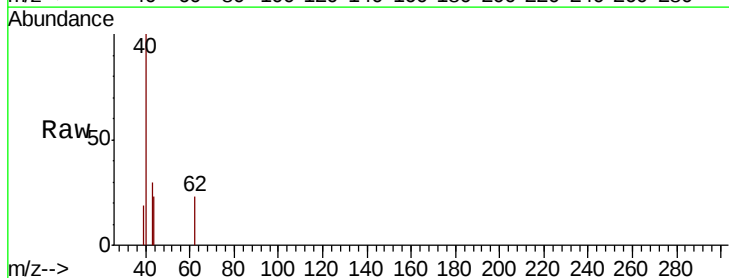
Acq: 11 Oct 2019 15:43

Tgt Ion: 43 Resp: 241

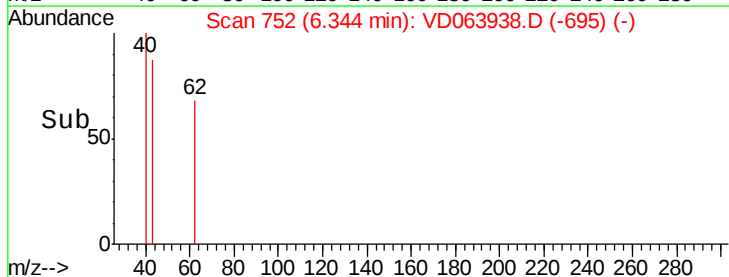
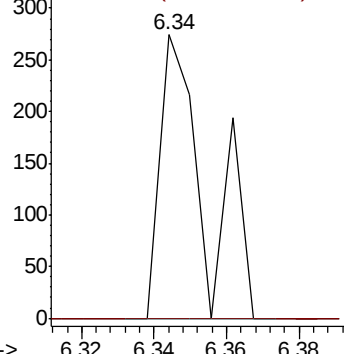
Ion Ratio Lower Upper

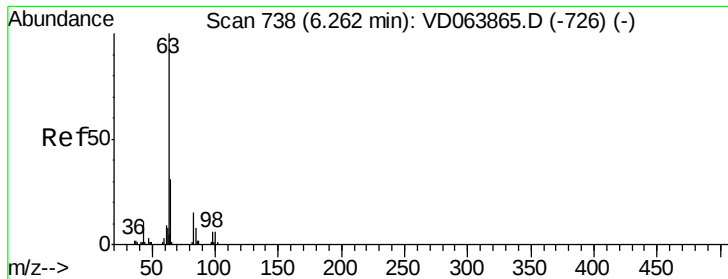
43 100

86 0.0 8.8 13.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 86.00 (85.70 to 86.70): VDC





#24

1,1-Dichloroethane

Concen: 1.101 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

10-10-C

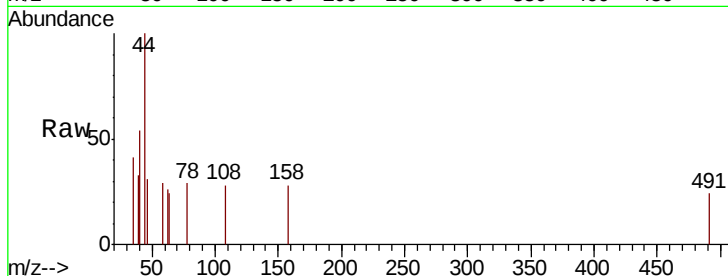
Tot Ion: 63 Resp: 58

Ion Ratio Lower Upper

63 100

98 0.0 3.1 9.4#

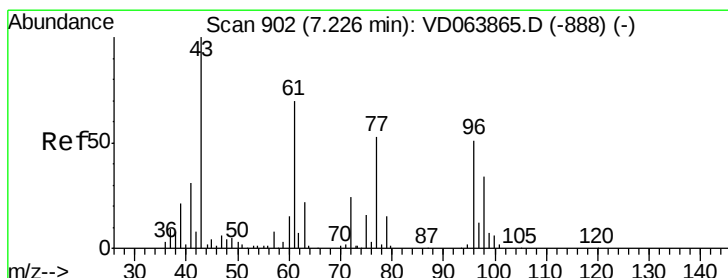
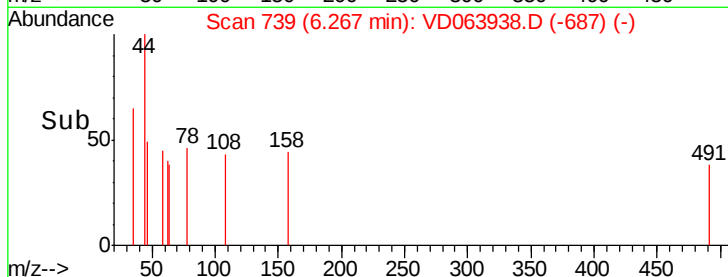
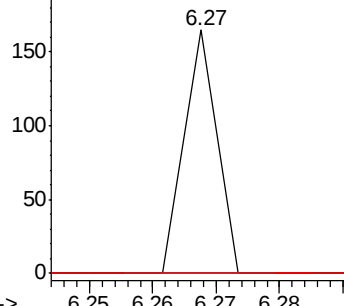
100 0.0 3.0 9.2#



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC



#25

2-Butanone

Concen: 6.645 ug/l

RT: 7.25 min Scan# 906

Delta R.T. 0.02 min

Lab File: VD063938.D

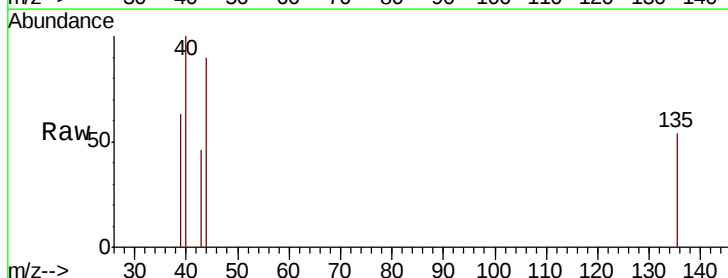
Acq: 11 Oct 2019 15:43

Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

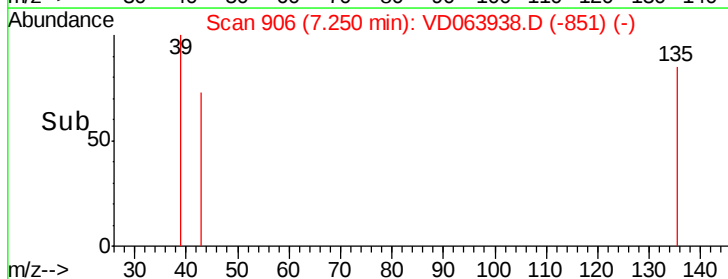
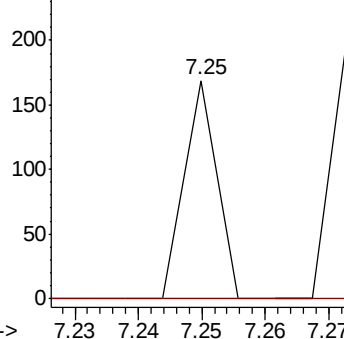
43 100

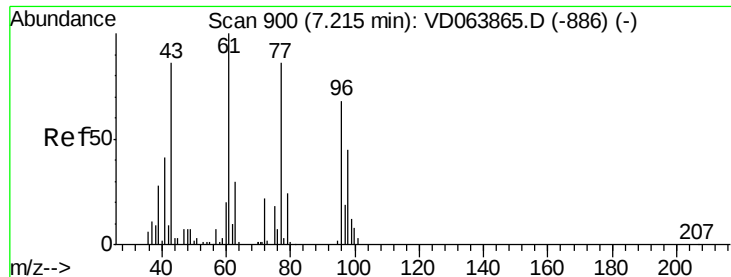
72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 1.259 ug/l

RT: 7.16 min Scan# 890

Delta R.T. -0.06 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

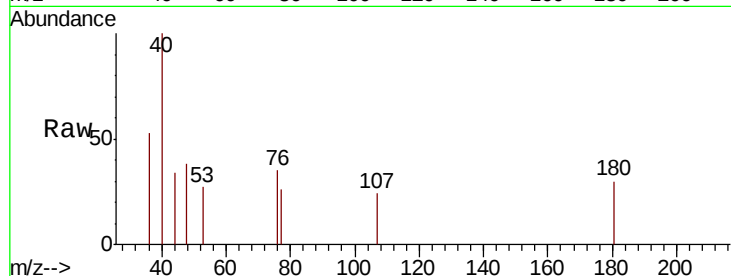
10-10-C

Tot Ion: 77 Resp: 60

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.1#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

7.16

150

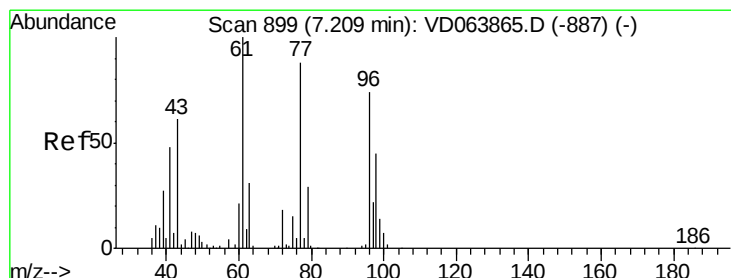
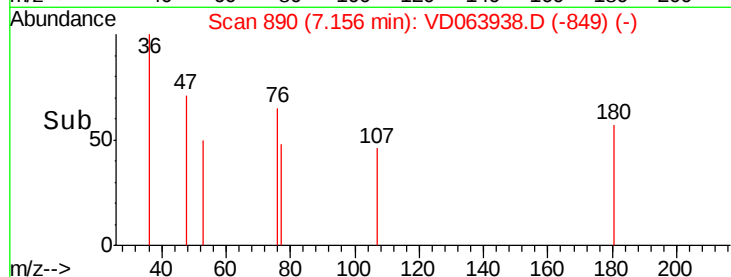
100

50

0

7.14 7.15 7.16 7.17

Time-->



#27

cis-1,2-Dichloroethene

Concen: 2.535 ug/l

RT: 7.19 min Scan# 896

Delta R.T. -0.02 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

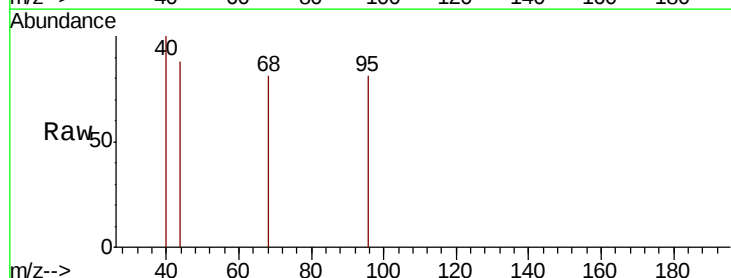
Tgt Ion: 96 Resp: 90

Ion Ratio Lower Upper

96 100

61 0.0 0.0 280.0

98 73.3 0.0 130.4



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

7.19

300

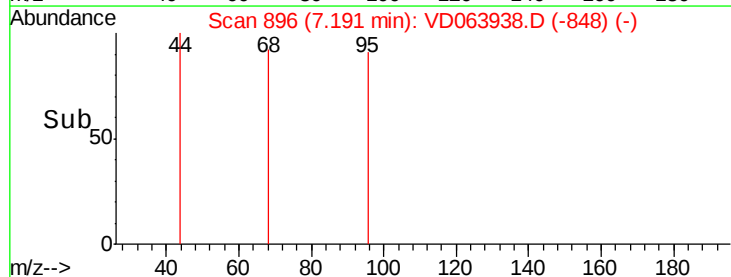
200

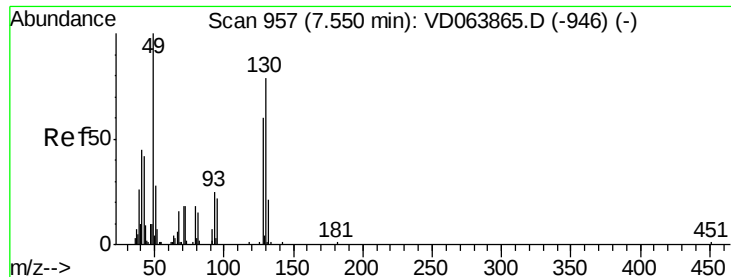
100

0

7.17 7.18 7.19 7.20 7.21

Time-->





#28

Bromochloromethane

Concen: 5.517 ug/l

RT: 7.49 min Scan# 946

Delta R.T. -0.06 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

10-10-C

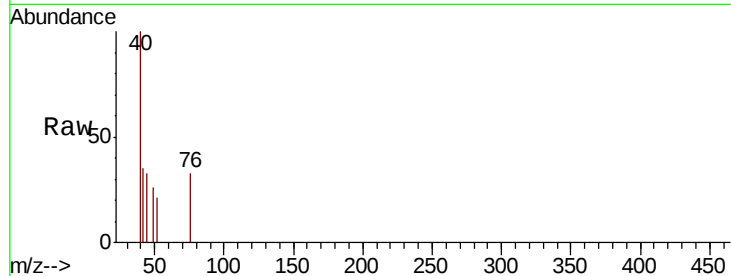
Tot Ion: 49 Resp: 76

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

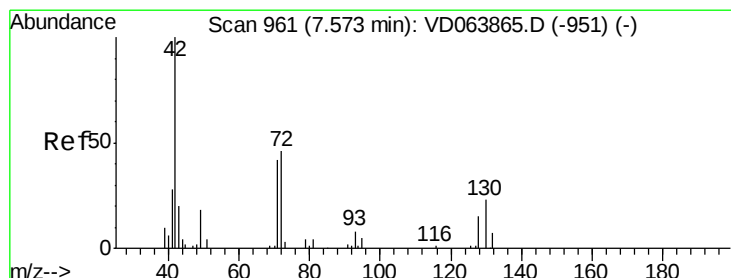
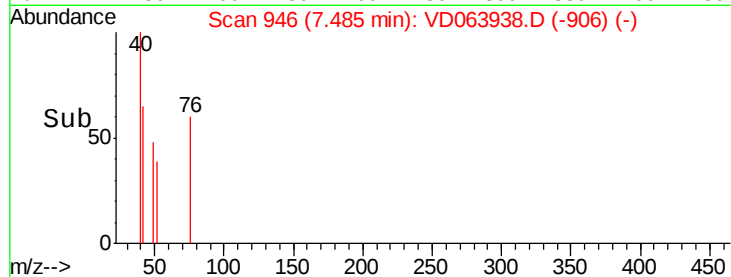
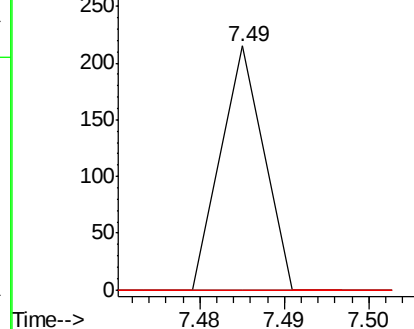
130 0.0 66.8 100.2#



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: 28.460 ug/l

RT: 7.55 min Scan# 957

Delta R.T. -0.02 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

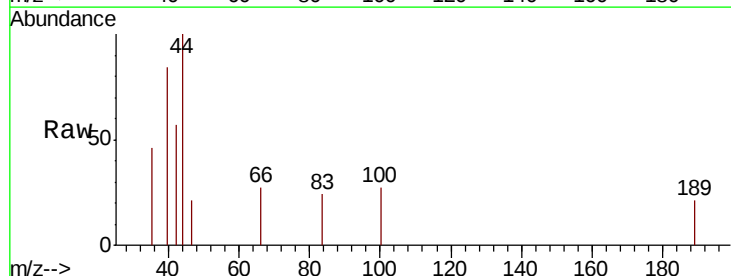
Tgt Ion: 42 Resp: 150

Ion Ratio Lower Upper

42 100

72 0.0 37.6 56.4#

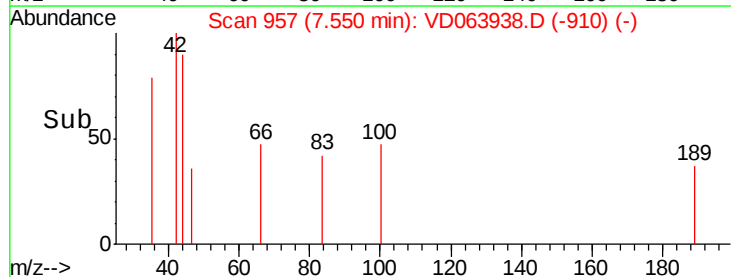
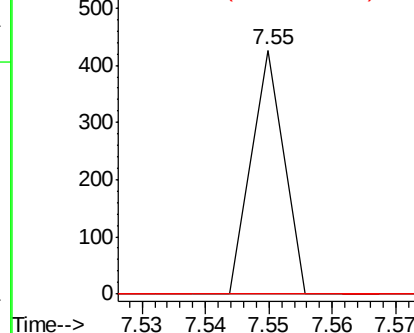
71 0.0 35.0 52.6#

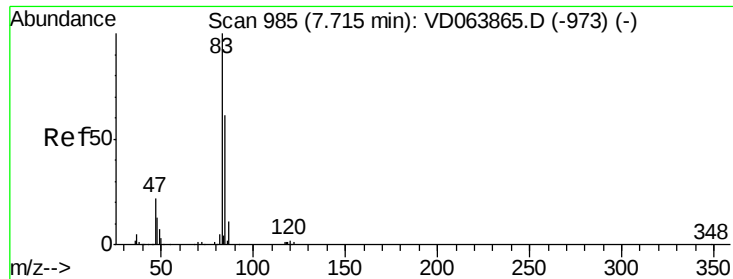


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#30

Chloroform

Concen: 1.241 ug/l

RT: 7.59 min Scan# 964

Delta R.T. -0.12 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

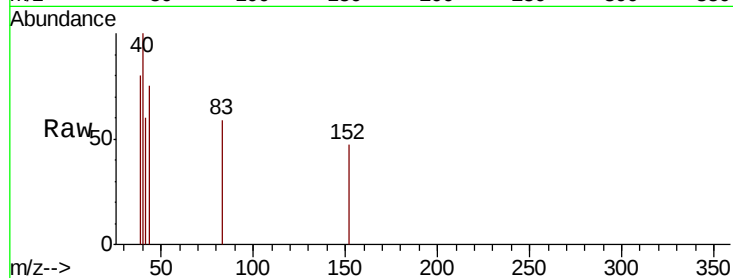
10-10-C

Tot Ion: 83 Resp: 71

Ion Ratio Lower Upper

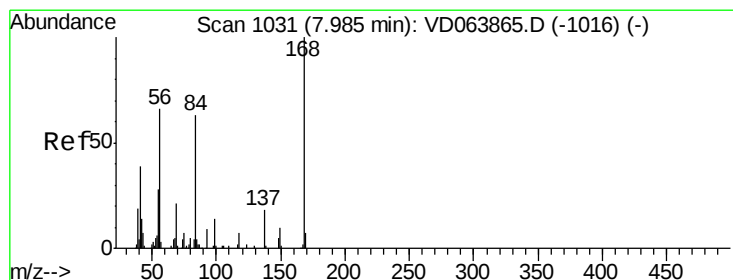
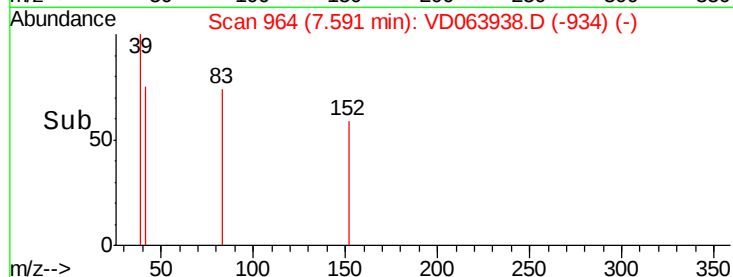
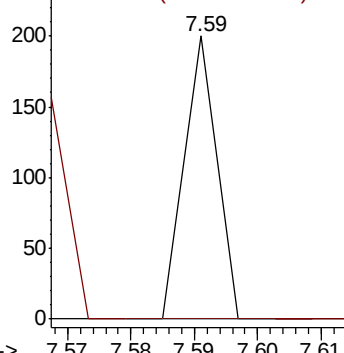
83 100

85 0.0 48.9 73.3#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

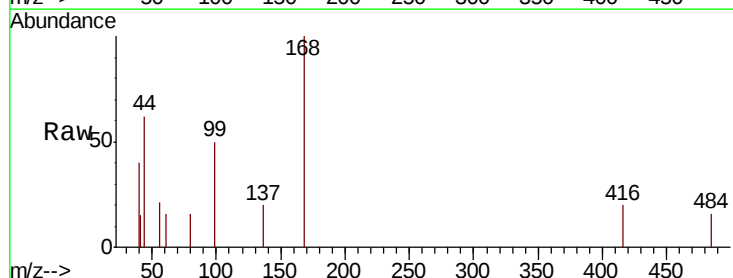
Tgt Ion: 56 Resp: 78

Ion Ratio Lower Upper

56 100

69 0.0 25.0 37.4#

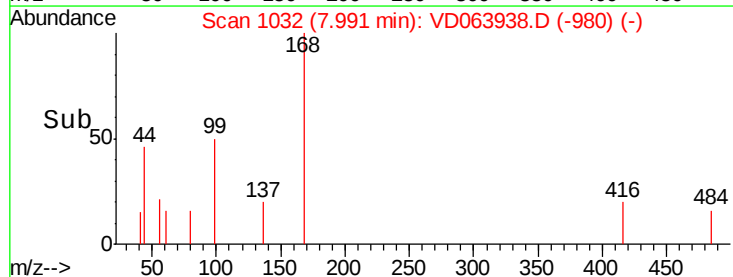
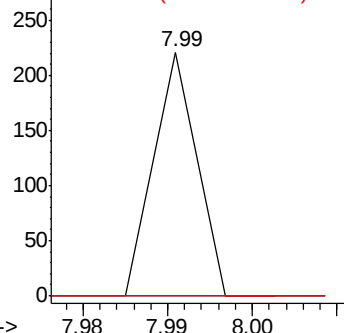
84 0.0 76.3 114.5#

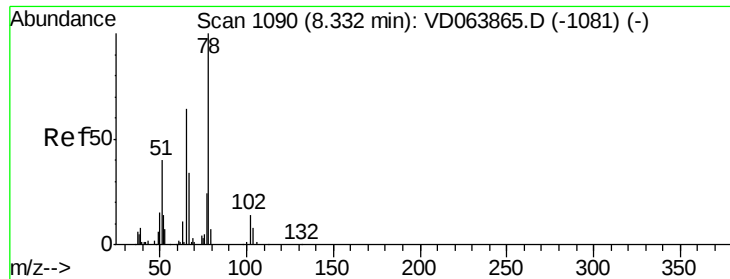


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 71.278 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

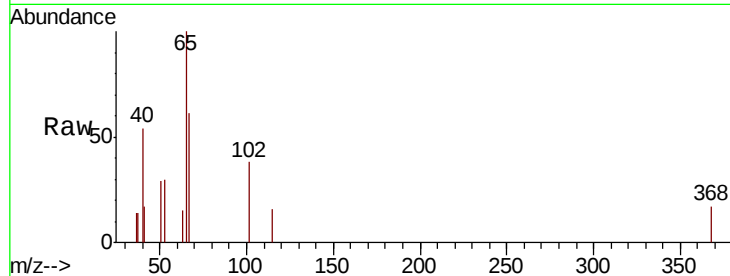
10-10-C

Tot Ion: 65 Resp: 2086

Ion Ratio Lower Upper

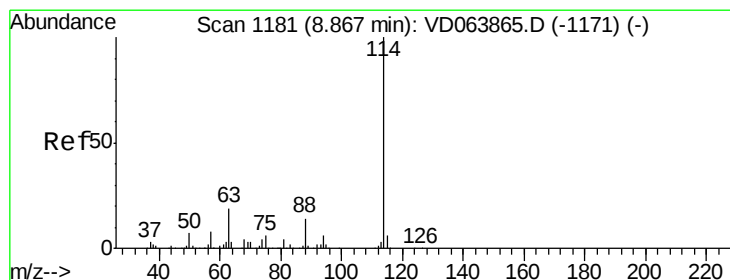
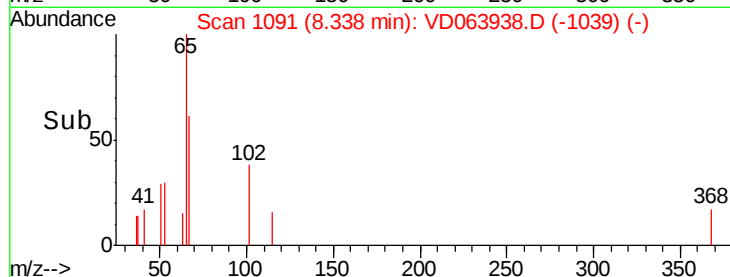
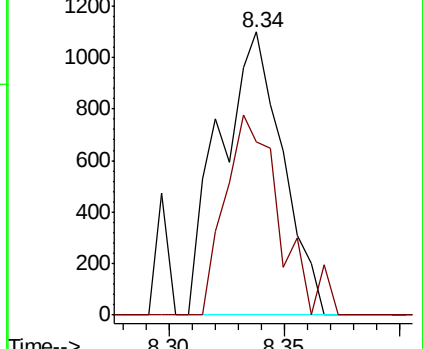
65 100

67 61.1 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# 1181

Delta R.T. -0.00 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

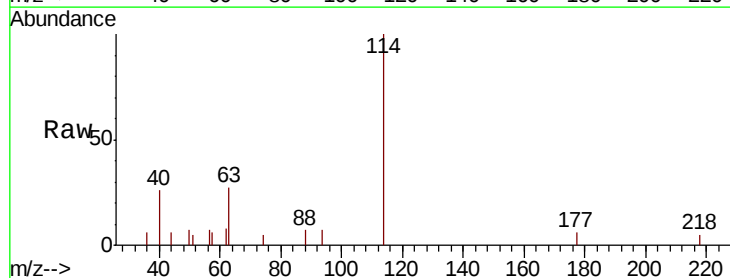
Tgt Ion: 114 Resp: 5397

Ion Ratio Lower Upper

114 100

63 26.8 0.0 38.4

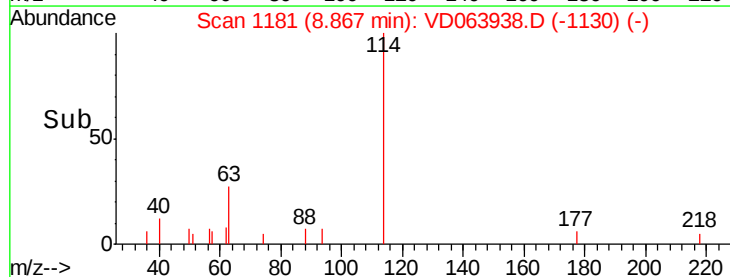
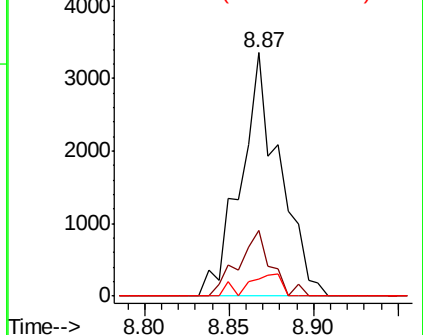
88 6.8 0.0 27.4

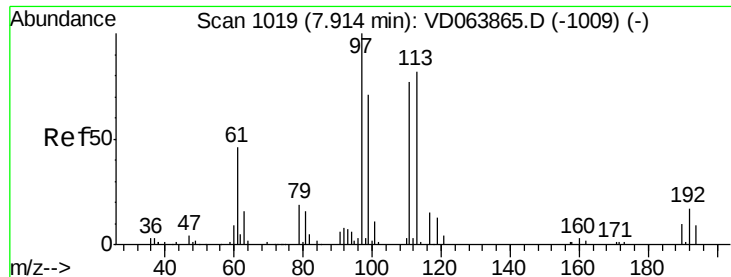


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

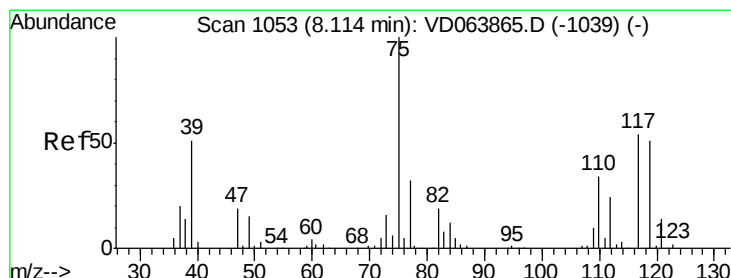
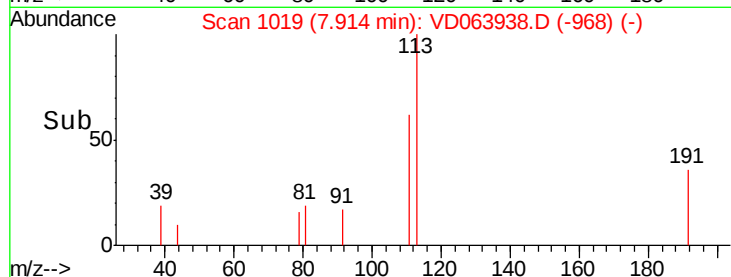
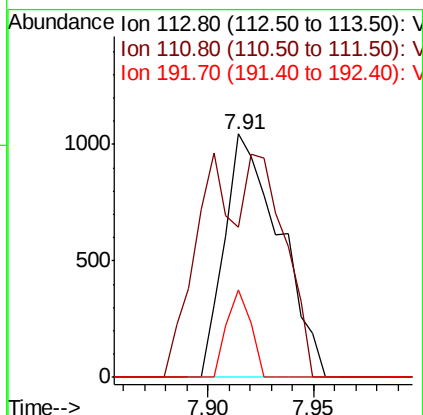
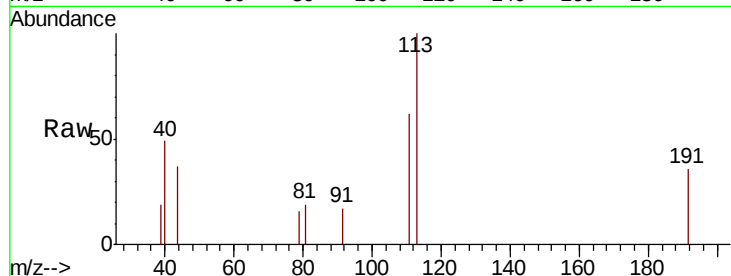




#35
 Dibromofluoromethane
 Concen: 57.454 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

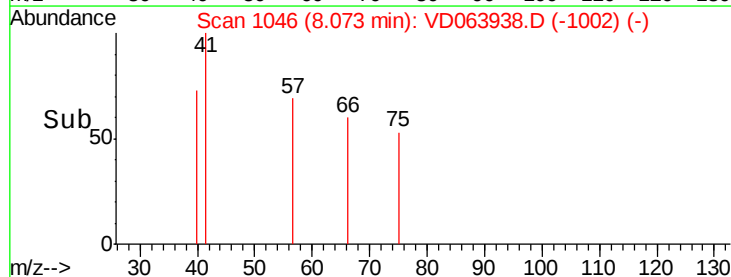
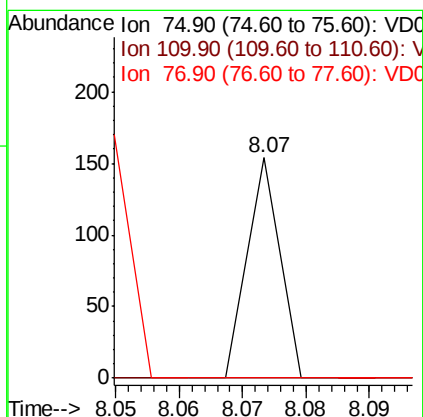
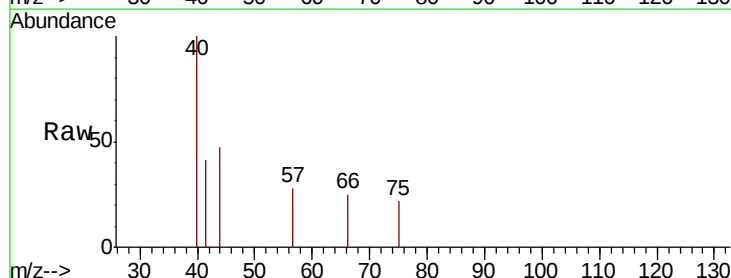
Instrument :
 MSVOA_D
 ClientSampleId :
 10-10-C

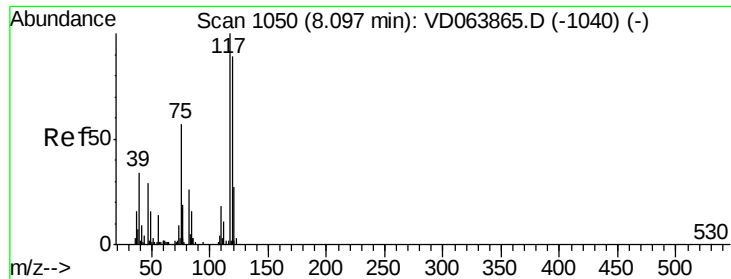
Tot Ion:113 Resp: 1895
 Ion Ratio Lower Upper
 113 100
 111 65.0 82.6 123.8#
 192 15.4 17.1 25.7#



#36
 1,1-Dichloropropene
 Concen: 1.094 ug/l
 RT: 8.07 min Scan# 1046
 Delta R.T. -0.04 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

Tgt Ion: 75 Resp: 54
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.4 52.3#
 77 0.0 25.4 38.0#

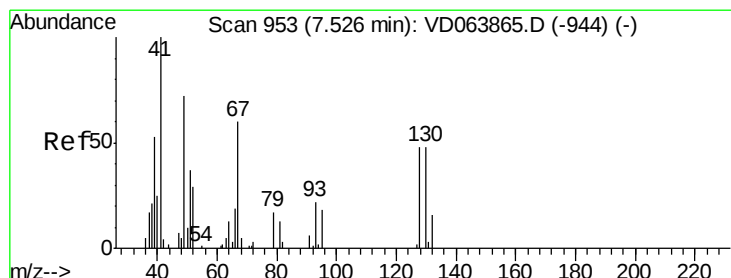
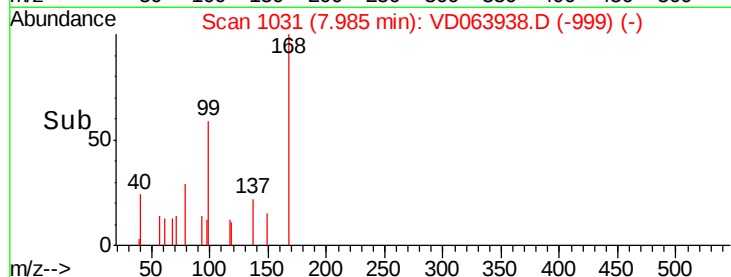
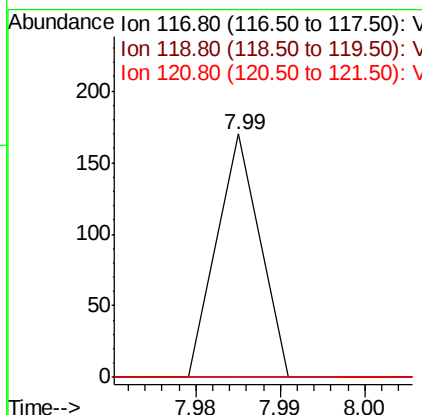
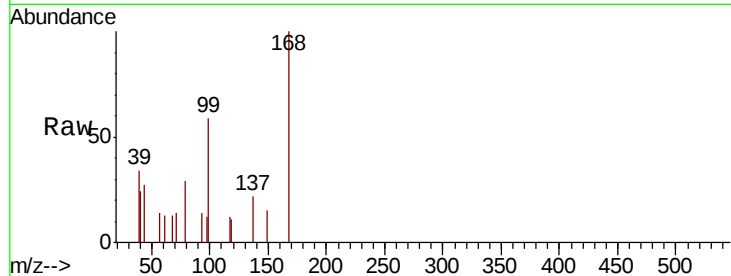




#38
Carbon Tetrachloride
Concen: 1.203 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD063938.D
Acq: 11 Oct 2019 15:43

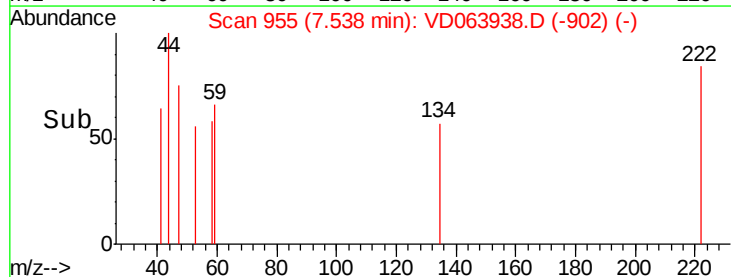
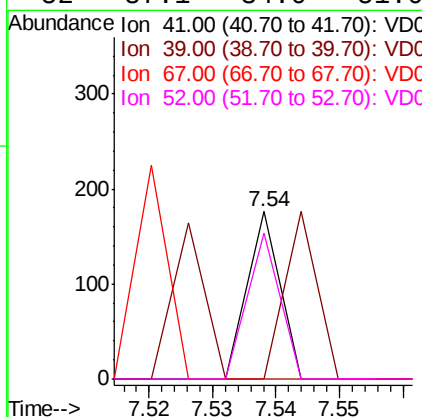
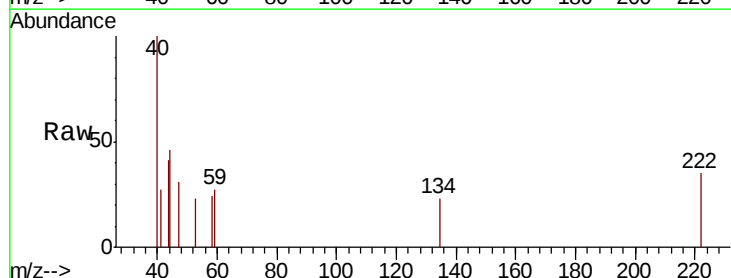
Instrument :
MSVOA_D
ClientSampleId :
10-10-C

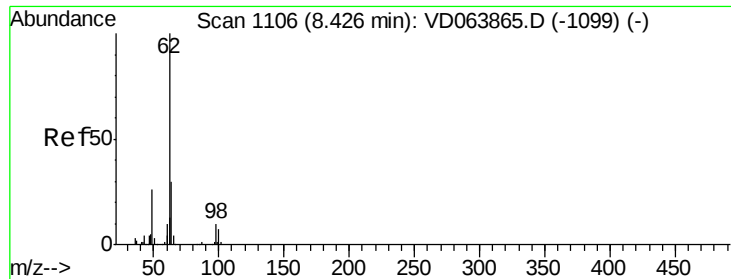
Tot Ion:117 Resp: 60
Ion Ratio Lower Upper
117 100
119 0.0 70.8 106.2#
121 0.0 21.4 32.0#



#41
Methacrylonitrile
Concen: 5.419 ug/l
RT: 7.54 min Scan# 955
Delta R.T. 0.01 min
Lab File: VD063938.D
Acq: 11 Oct 2019 15:43

Tgt Ion: 41 Resp: 62
Ion Ratio Lower Upper
41 100
39 100.0 52.6 78.8#
67 0.0 74.2 111.2#
52 87.1 34.0 51.0#





#42

1,2-Dichloroethane

Concen: 1.931 ug/l

RT: 8.44 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

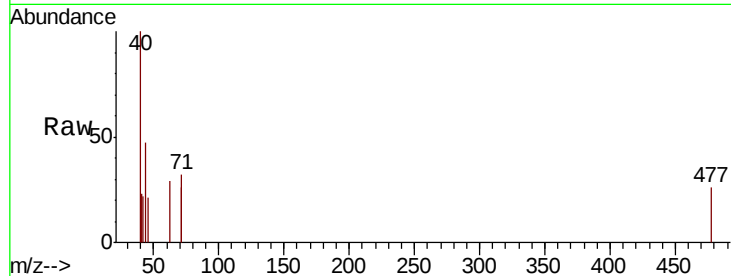
10-10-C

Tot Ion: 62 Resp: 79

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

8.44

250

200

150

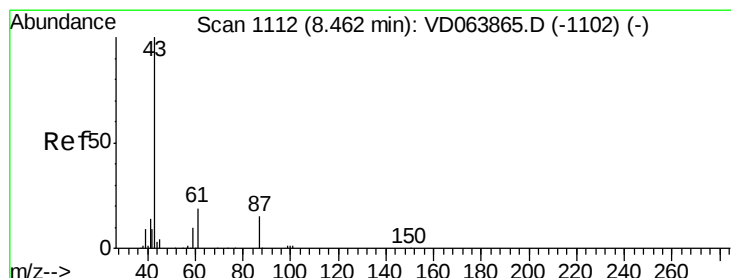
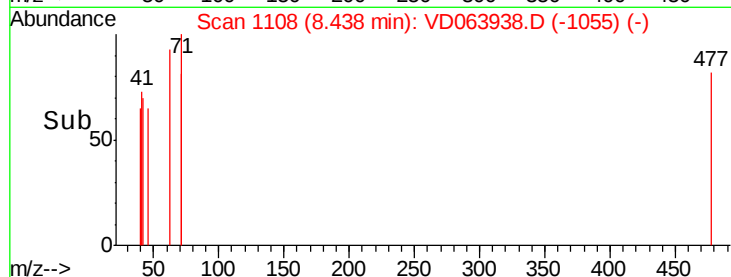
100

50

0

8.42 8.43 8.44 8.45

Time-->



#43

Isopropyl Acetate

Concen: 4.857 ug/l

RT: 8.51 min Scan# 1121

Delta R.T. 0.05 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

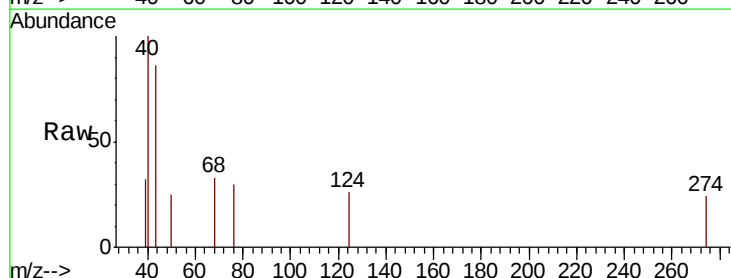
Tgt Ion: 43 Resp: 201

Ion Ratio Lower Upper

43 100

61 0.0 25.7 38.5#

87 0.0 11.6 17.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

600

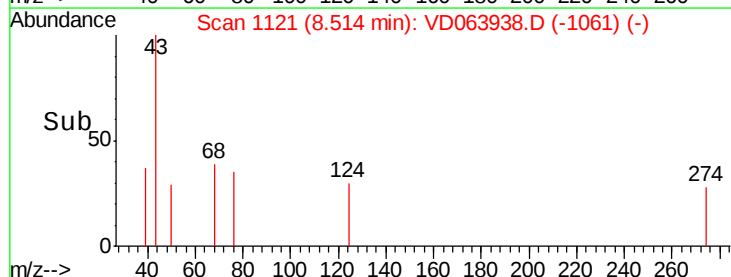
400

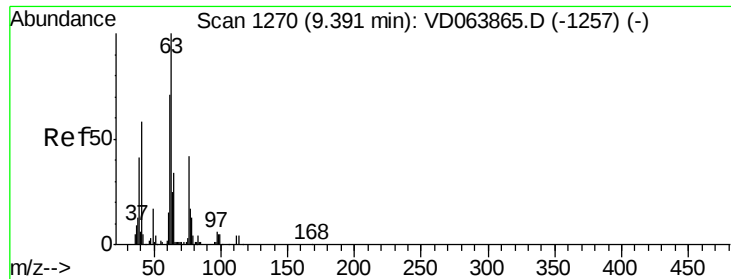
200

0

8.50 8.51 8.52 8.53

Time-->

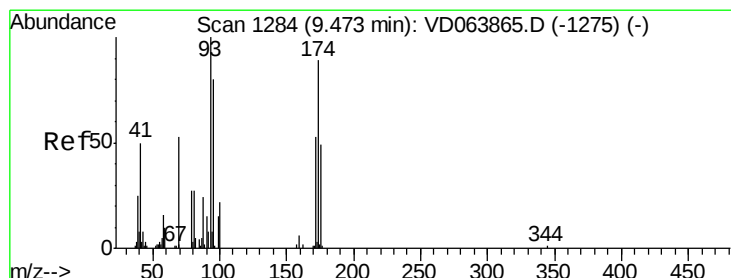
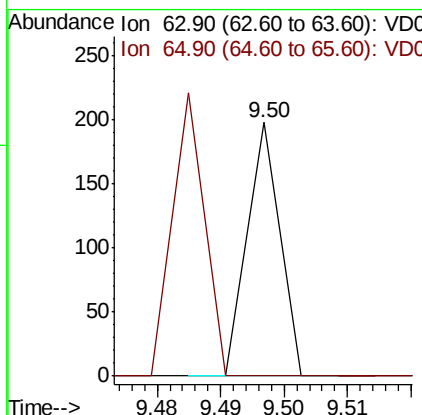
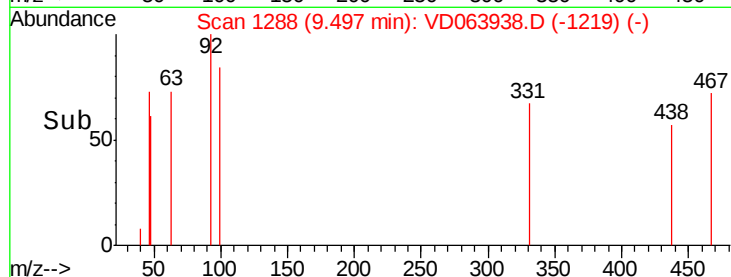
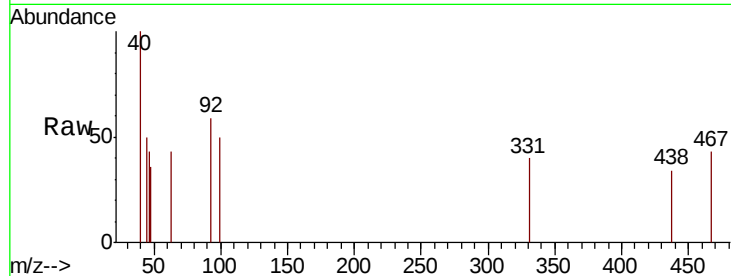




#45
 1,2-Dichloropropane
 Concen: 2.022 ug/l
 RT: 9.50 min Scan# 1288
 Delta R.T. 0.11 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

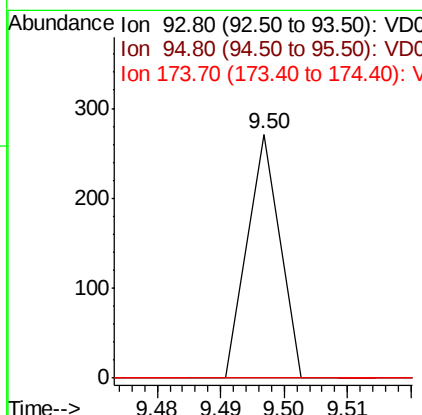
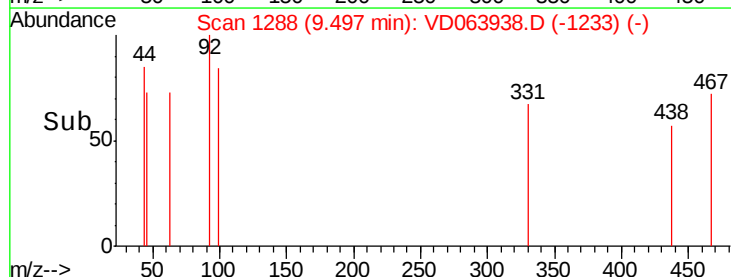
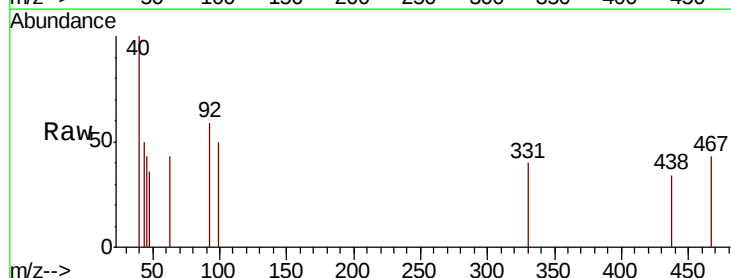
Instrument :
 MSVOA_D
 ClientSampleId :
 10-10-C

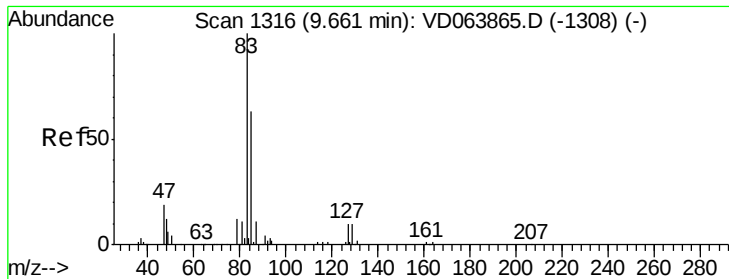
Tot Ion: 63 Resp: 70
 Ion Ratio Lower Upper
 63 100
 65 0.0 27.3 40.9#



#46
 Dibromomethane
 Concen: 4.870 ug/l
 RT: 9.50 min Scan# 1288
 Delta R.T. 0.02 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

Tgt Ion: 93 Resp: 96
 Ion Ratio Lower Upper
 93 100
 95 0.0 66.0 99.0#
 174 0.0 83.4 125.0#





#47

Bromodichloromethane

Concen: 1.103 ug/l

RT: 9.81 min Scan# 1342

Delta R.T. 0.15 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

10-10-C

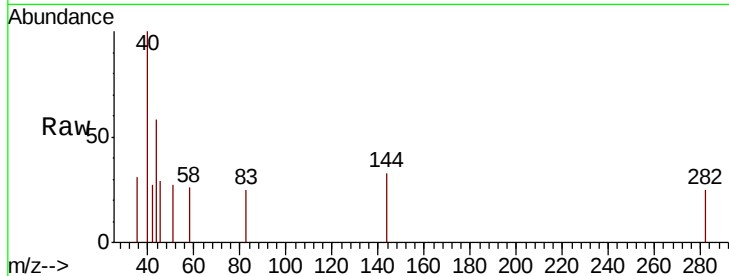
Tot Ion: 83 Resp: 56

Ion Ratio Lower Upper

83 100

85 0.0 50.2 75.2#

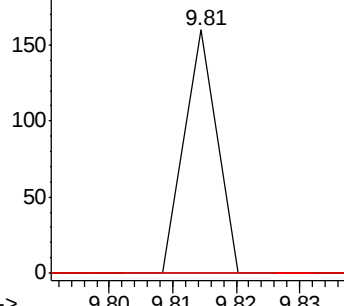
127 0.0 7.6 11.4#



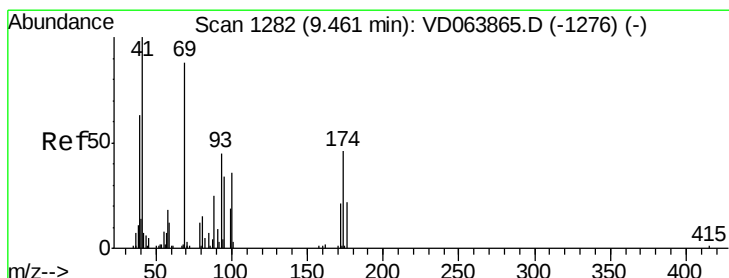
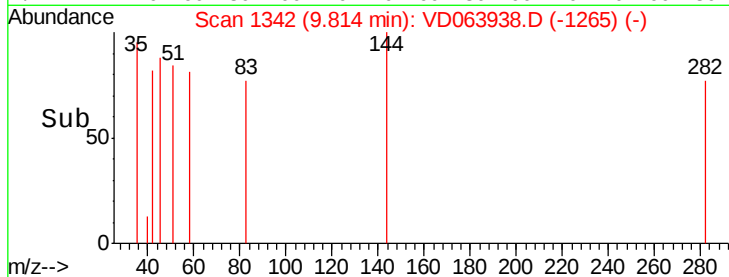
Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 126.80 (126.50 to 127.50): VDC



Time-->



#48

Methyl methacrylate

Concen: 14.727 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

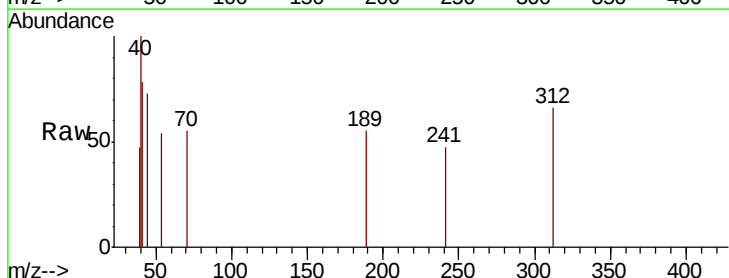
Tgt Ion: 41 Resp: 292

Ion Ratio Lower Upper

41 100

69 25.0 75.1 112.7#

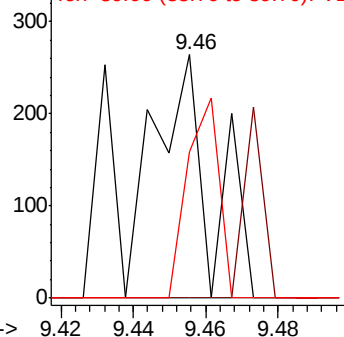
39 45.5 50.2 75.2#



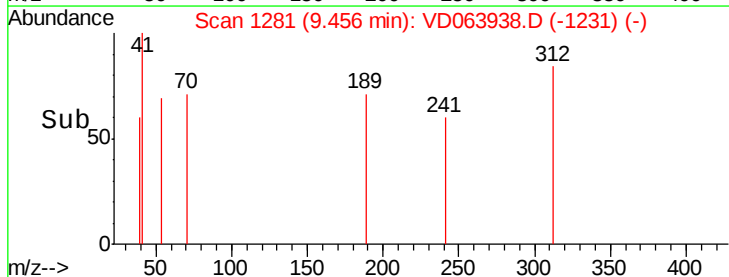
Abundance Ion 41.00 (40.70 to 41.70): VDC

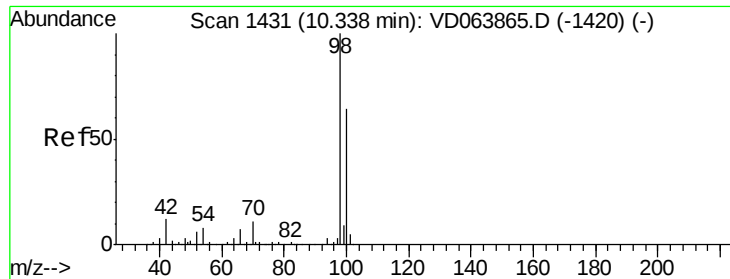
Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



Time-->

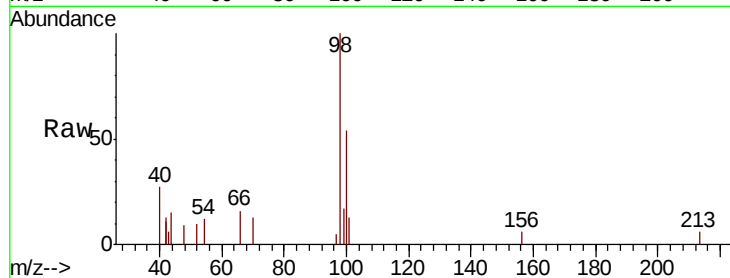




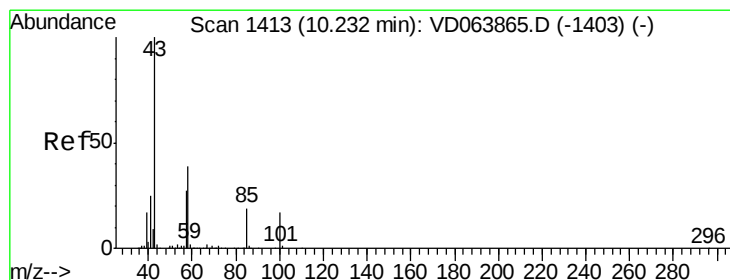
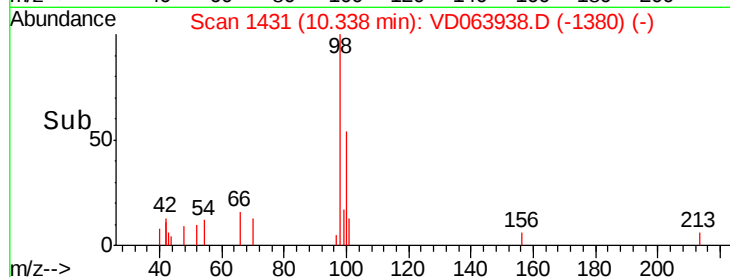
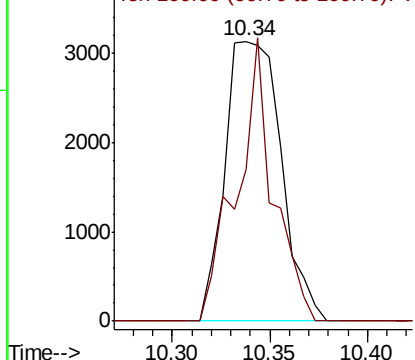
#50
Toluene-d8
Concen: 46.597 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD063938.D
Acq: 11 Oct 2019 15:43

Instrument :
MSVOA_D
ClientSampleId :
10-10-C

Tot Ion: 98 Resp: 6238
Ion Ratio Lower Upper
98 100
100 65.8 52.1 78.1

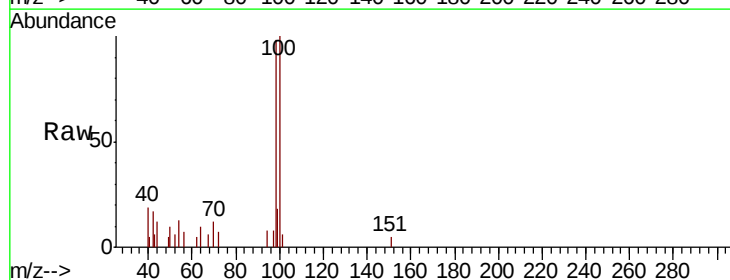


Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC

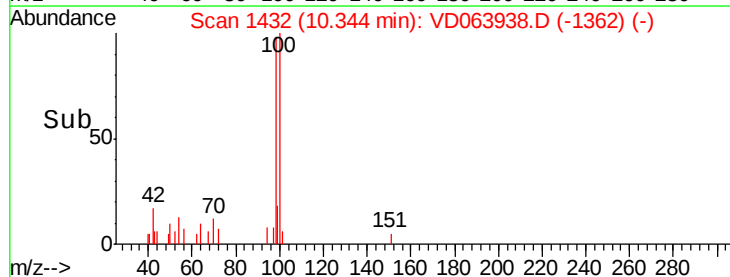
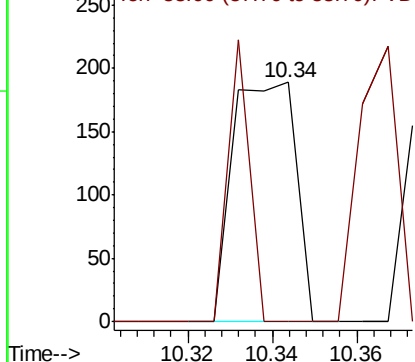


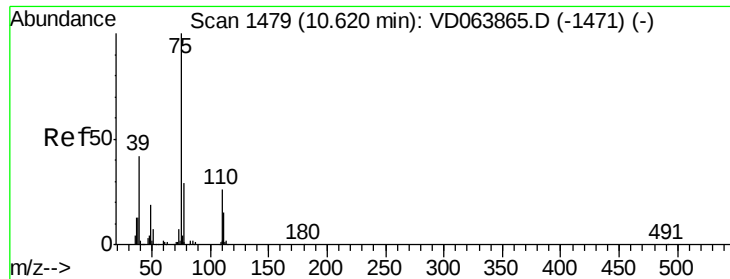
#51
4-Methyl-2-Pentanone
Concen: 9.086 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.11 min
Lab File: VD063938.D
Acq: 11 Oct 2019 15:43

Tgt Ion: 43 Resp: 195
Ion Ratio Lower Upper
43 100
58 40.5 33.0 49.4



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





#53

t-1,3-Dichloropropene

Concen: 4.139 ug/l

RT: 10.72 min Scan# 1496

Delta R.T. 0.10 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampled :

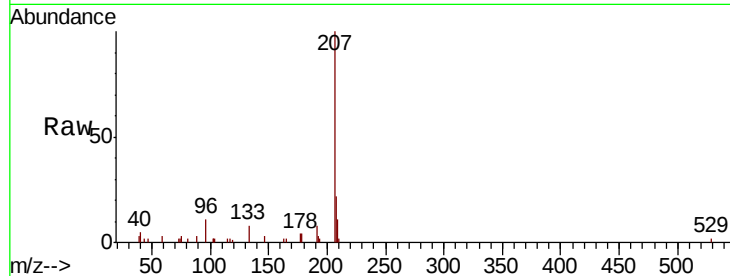
10-10-C

Tot Ion: 75 Resp: 205

Ion Ratio Lower Upper

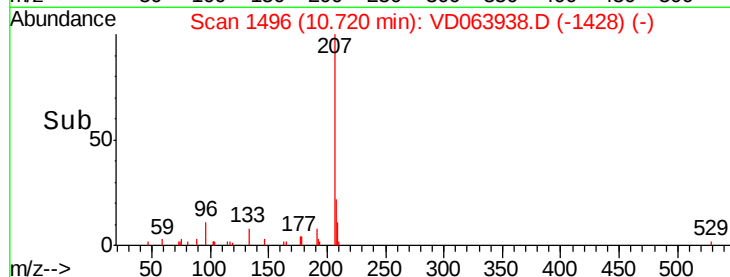
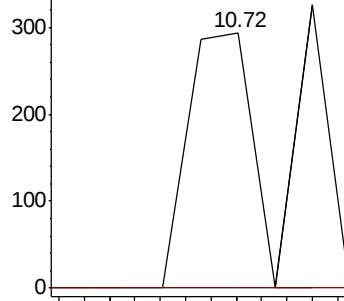
75 100

77 0.0 22.8 34.2#

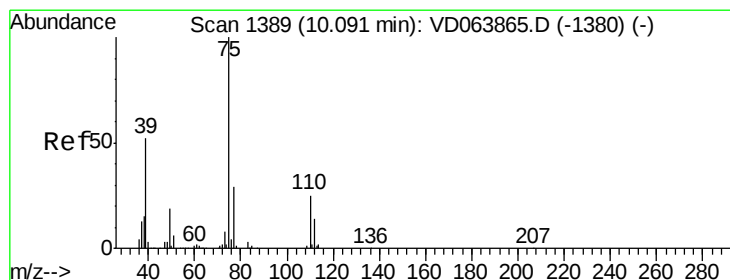


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



Time-->



#54

cis-1,3-Dichloropropene

Concen: 1.052 ug/l

RT: 10.10 min Scan# 1390

Delta R.T. 0.01 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

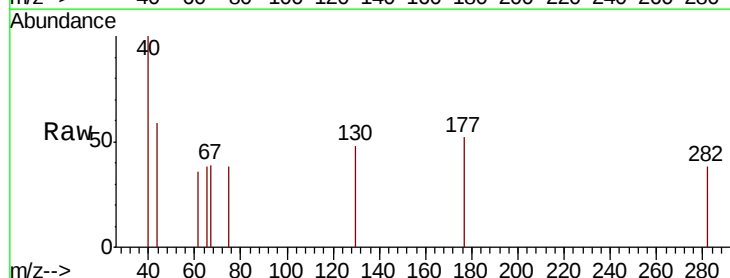
Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

77 0.0 23.2 34.8#

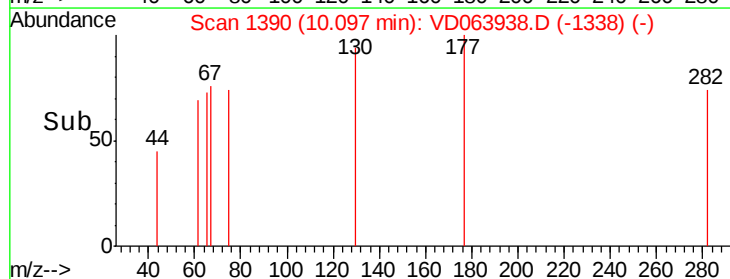
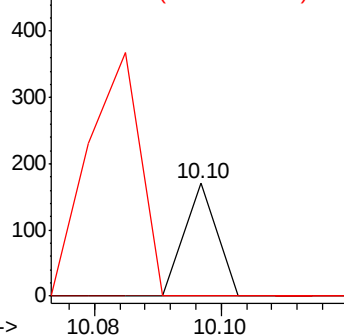
39 0.0 41.5 62.3#



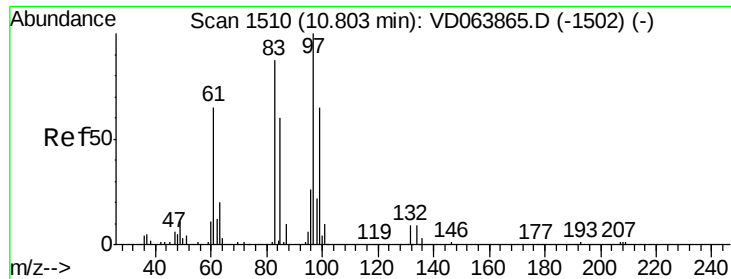
Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC



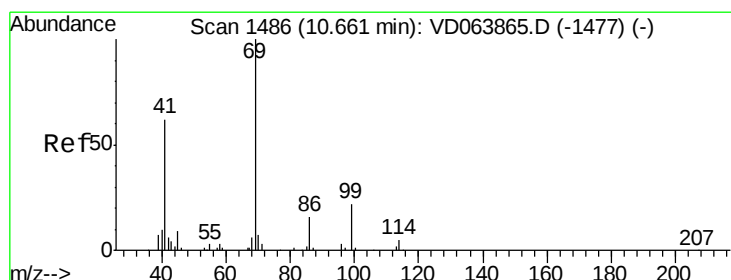
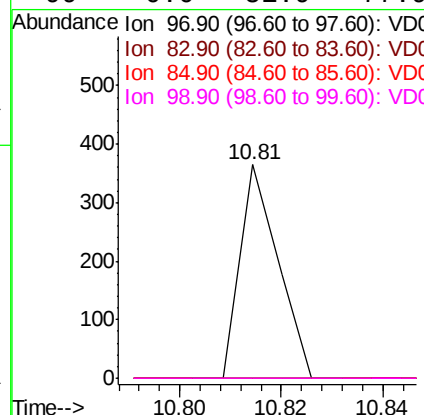
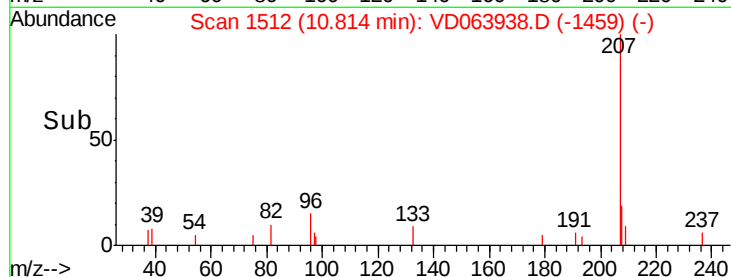
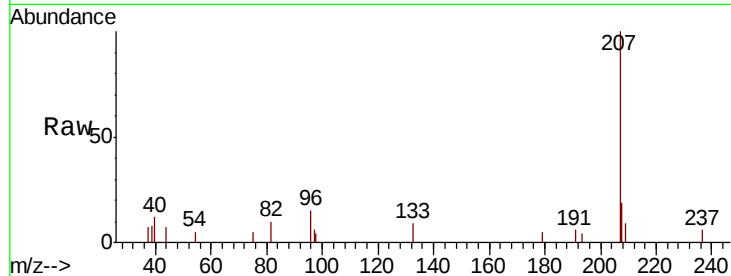
Time-->



#55
 1,1,2-Trichloroethane
 Concen: 6.898 ug/l
 RT: 10.81 min Scan# 1512
 Delta R.T. 0.01 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

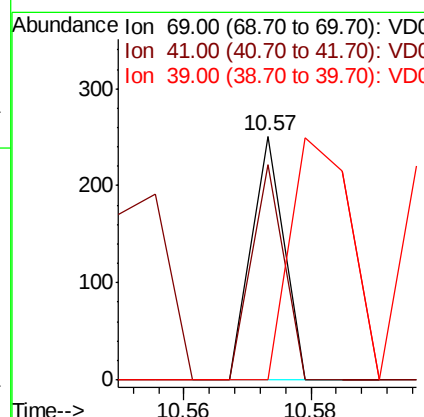
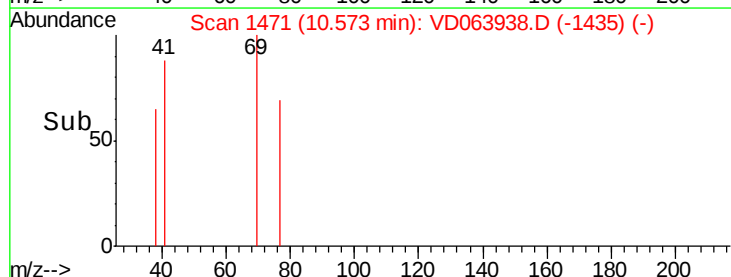
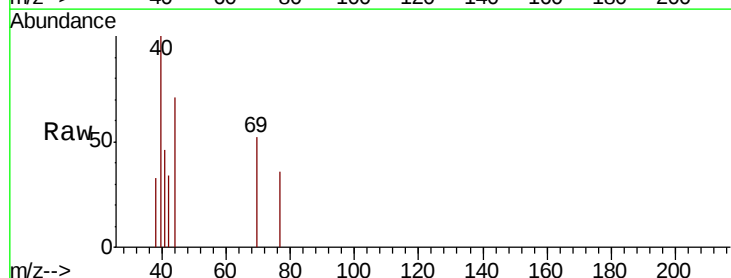
Instrument :
 MSVOA_D
 ClientSampleId :
 10-10-C

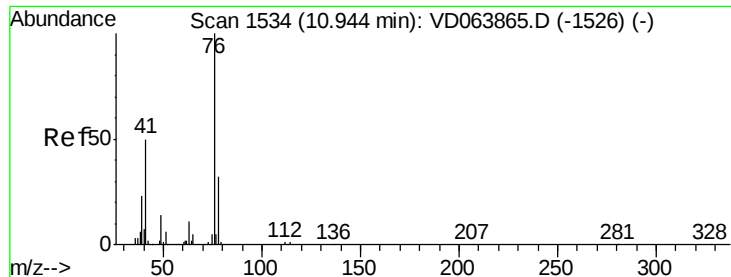
Tot Ion: 97 Resp: 192
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.7 104.5#
 85 0.0 48.1 72.1#
 99 0.0 51.9 77.9#



#56
 Ethyl methacrylate
 Concen: 2.525 ug/l
 RT: 10.57 min Scan# 1471
 Delta R.T. -0.09 min
 Lab File: VD063938.D
 Acq: 11 Oct 2019 15:43

Tgt Ion: 69 Resp: 89
 Ion Ratio Lower Upper
 69 100
 41 87.6 51.3 76.9#
 39 184.3 28.0 42.0#





#57

1,3-Dichloropropane

Concen: 1.407 ug/l

RT: 10.96 min Scan# 1537

Delta R.T. 0.02 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampled :

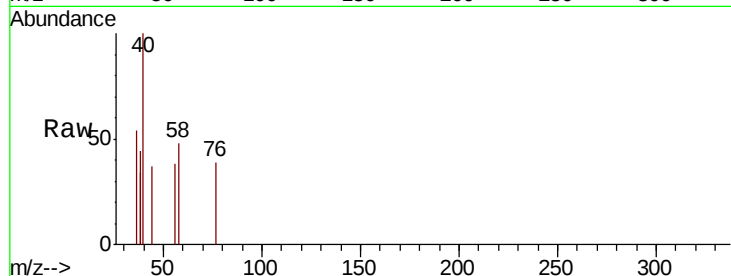
10-10-C

Tot Ion: 76 Resp: 67

Ion Ratio Lower Upper

76 100

78 0.0 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

10.96

200

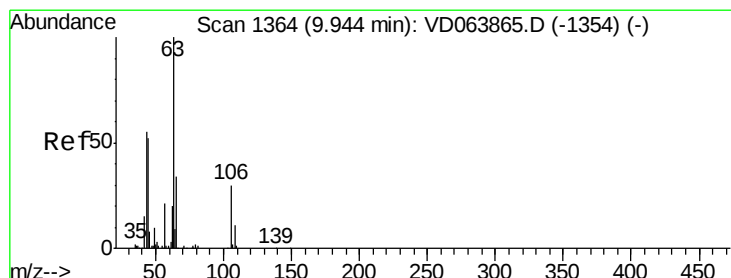
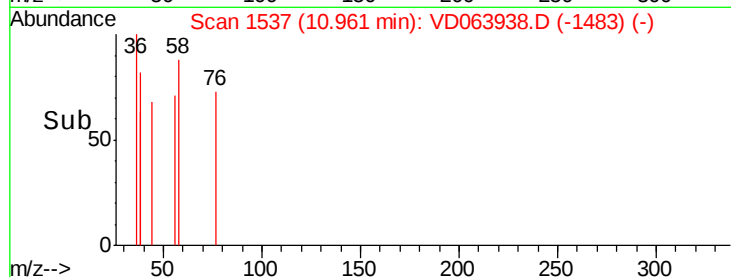
150

100

50

0

Time--> 10.94 10.96 10.98



#58

2-Chloroethyl Vinyl ether

Concen: 4.158 ug/l

RT: 9.76 min Scan# 1333

Delta R.T. -0.18 min

Lab File: VD063938.D

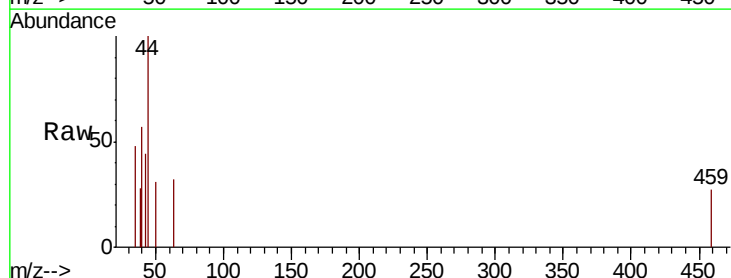
Acq: 11 Oct 2019 15:43

Tgt Ion: 63 Resp: 63

Ion Ratio Lower Upper

63 100

106 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

9.76

200

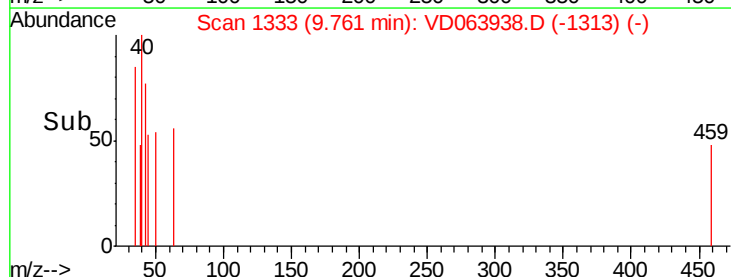
150

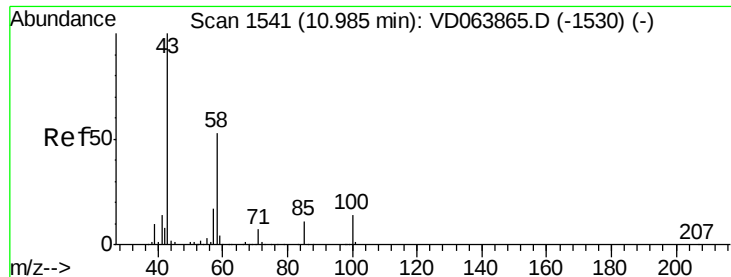
100

50

0

Time--> 9.74 9.75 9.76 9.77 9.78





#59

2-Hexanone

Concen: 9.533 ug/l

RT: 10.86 min Scan# 1520

Delta R.T. -0.12 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleID :

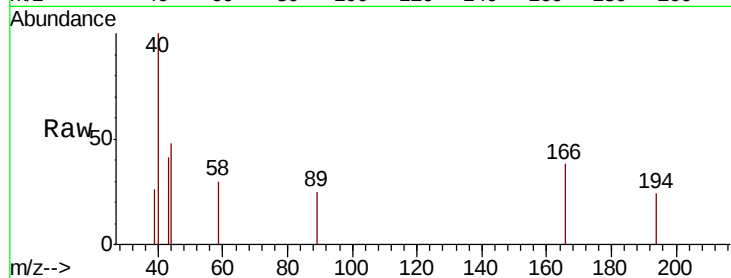
10-10-C

Tot Ion: 43 Resp: 148

Ion Ratio Lower Upper

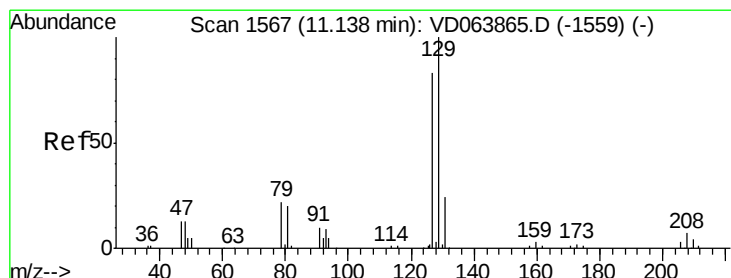
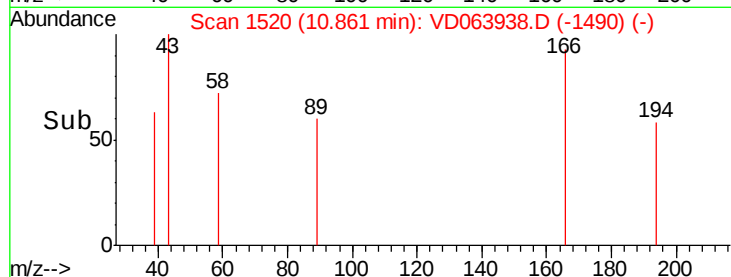
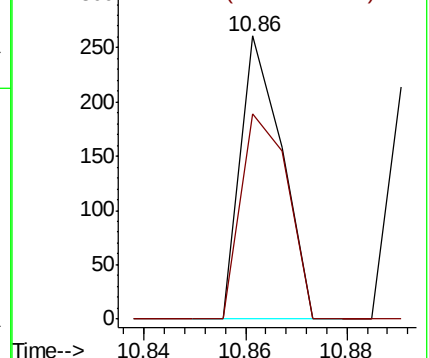
43 100

58 81.8 27.7 83.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#60

Dibromochloromethane

Concen: 1.656 ug/l

RT: 11.01 min Scan# 1546

Delta R.T. -0.12 min

Lab File: VD063938.D

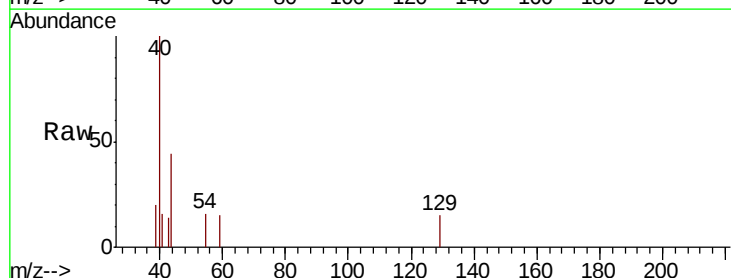
Acq: 11 Oct 2019 15:43

Tgt Ion: 129 Resp: 60

Ion Ratio Lower Upper

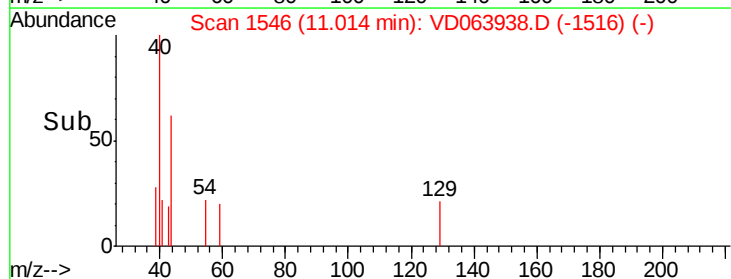
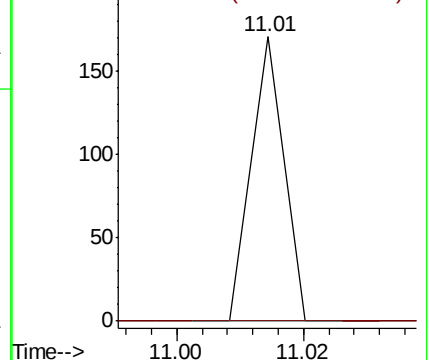
129 100

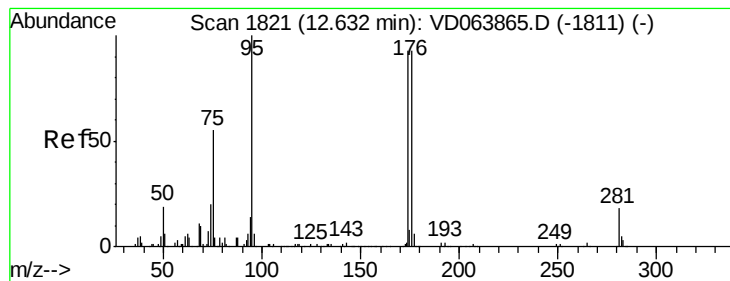
127 0.0 39.9 119.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 52.364 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampled :

10-10-C

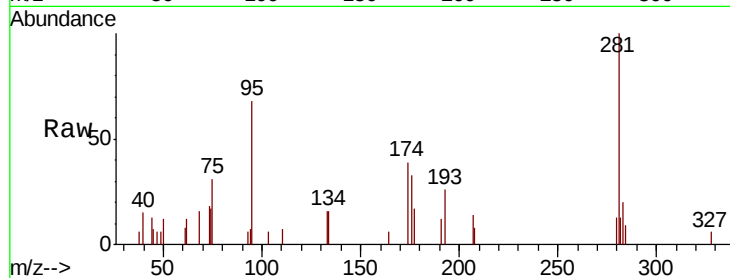
Tot Ion: 95 Resp: 2436

Ion Ratio Lower Upper

95 100

174 75.0 0.0 186.4

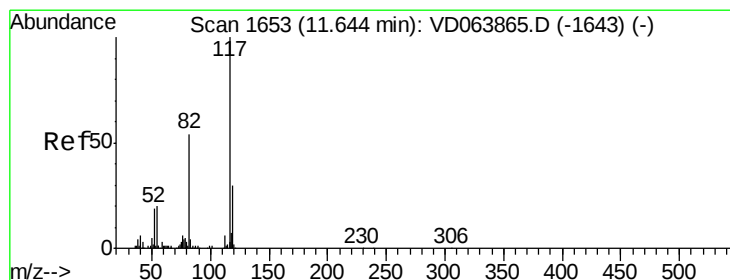
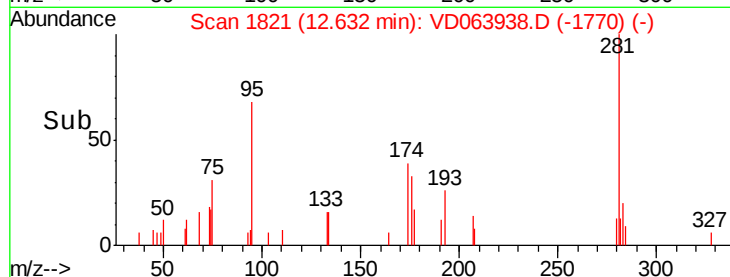
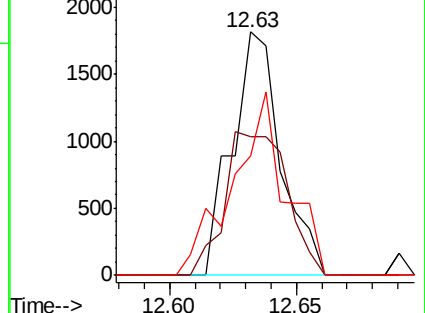
176 82.1 0.0 184.2



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: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

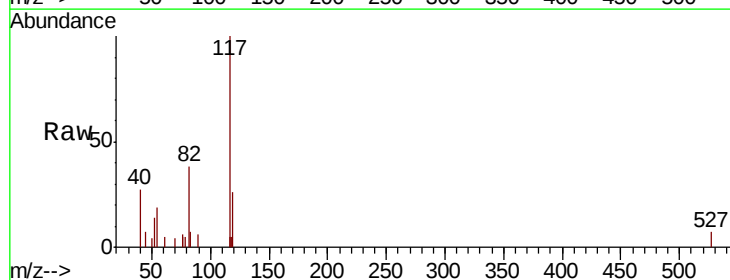
Tgt Ion: 117 Resp: 4387

Ion Ratio Lower Upper

117 100

82 38.1 42.8 64.2#

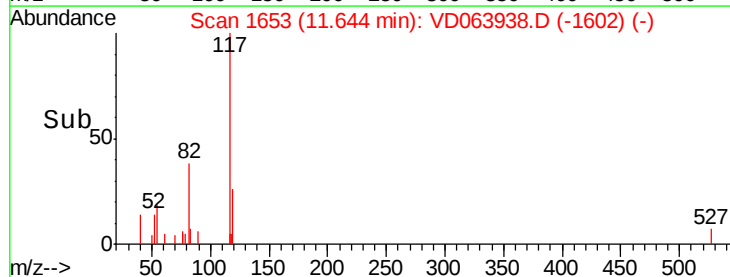
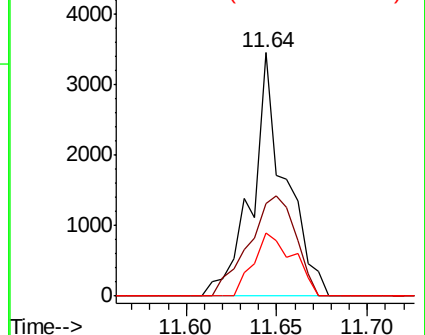
119 25.7 24.4 36.6

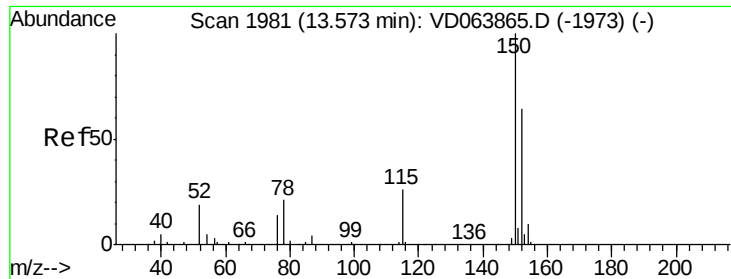


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



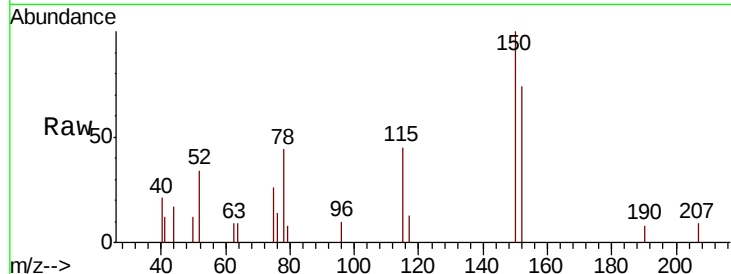


#72

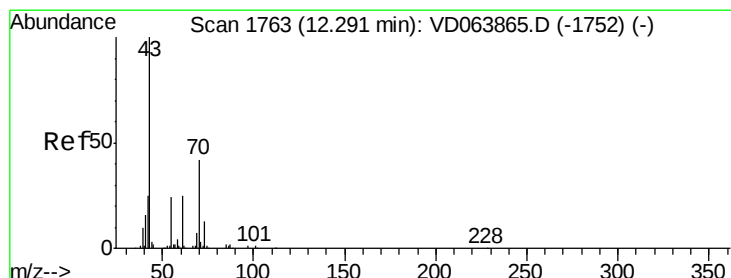
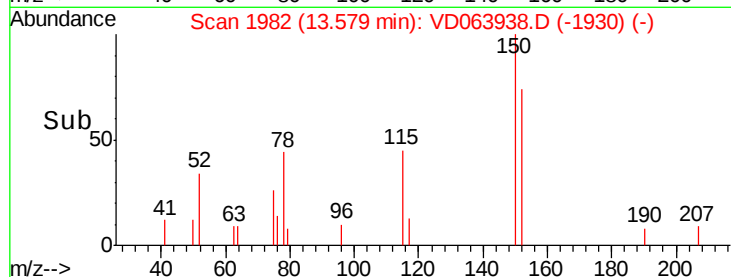
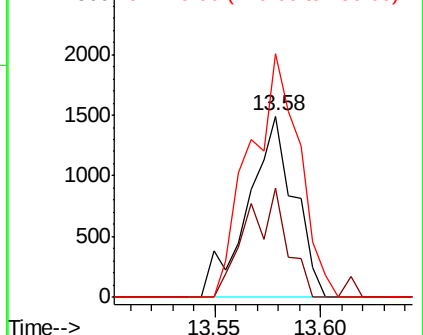
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063938.D
Acq: 11 Oct 2019 15:43

Instrument :
MSVOA_D
ClientSampleId :
10-10-C

Tot Ion:152 Resp: 2281
Ion Ratio Lower Upper
152 100
115 52.7 25.9 77.7
150 143.1 0.0 344.2



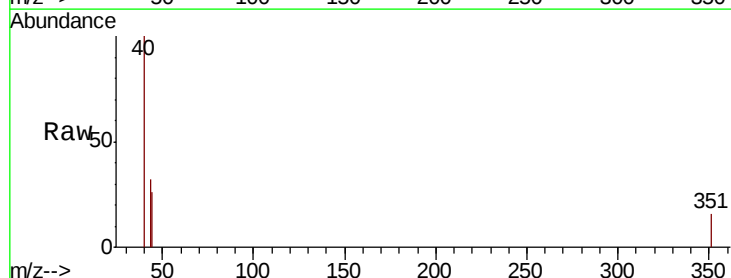
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



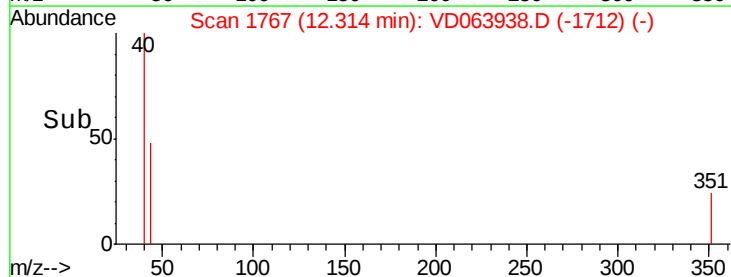
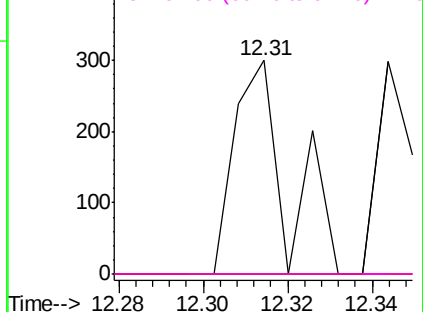
#74

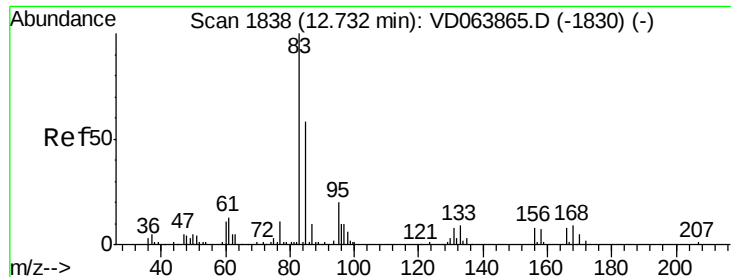
N-ethyl acetate
Concen: 7.906 ug/l
RT: 12.31 min Scan# 1767
Delta R.T. 0.02 min
Lab File: VD063938.D
Acq: 11 Oct 2019 15:43

Tgt Ion: 43 Resp: 261
Ion Ratio Lower Upper
43 100
70 0.0 35.8 53.6#
55 0.0 19.4 29.0#
61 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 2.698 ug/l

RT: 12.71 min Scan# 1835

Delta R.T. -0.02 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampled :

10-10-C

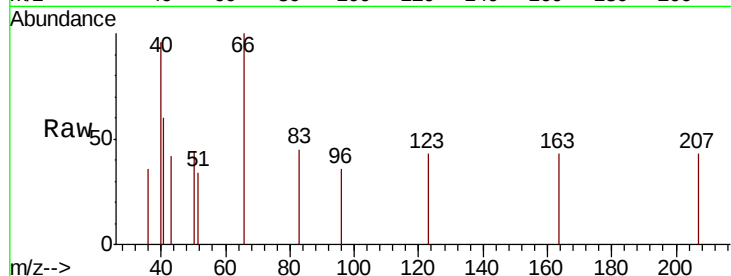
Tot Ion: 83 Resp: 72

Ion Ratio Lower Upper

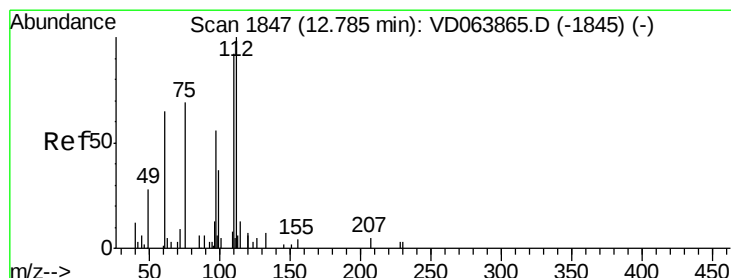
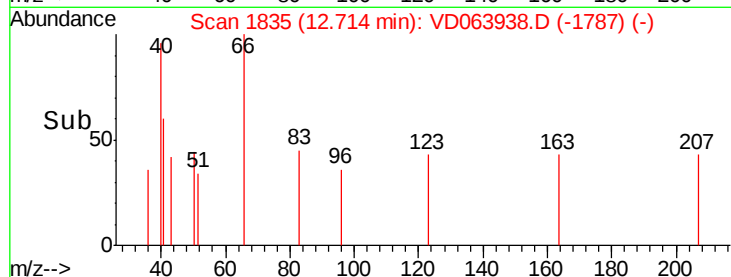
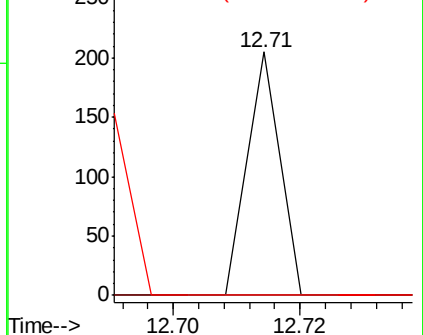
83 100

131 0.0 5.6 16.8#

85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 3.862 ug/l

RT: 12.77 min Scan# 1845

Delta R.T. -0.01 min

Lab File: VD063938.D

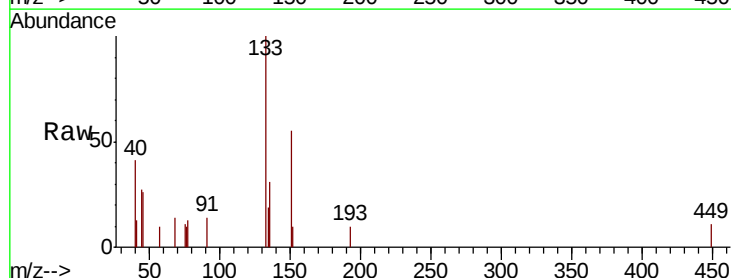
Acq: 11 Oct 2019 15:43

Tgt Ion: 75 Resp: 59

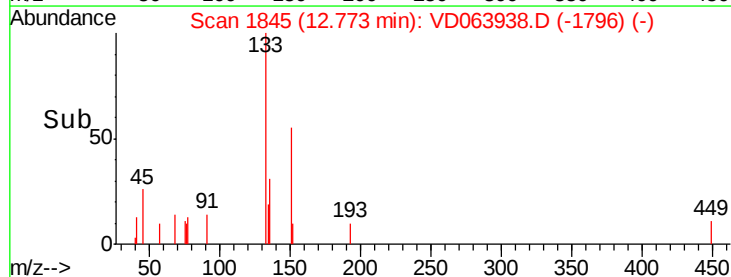
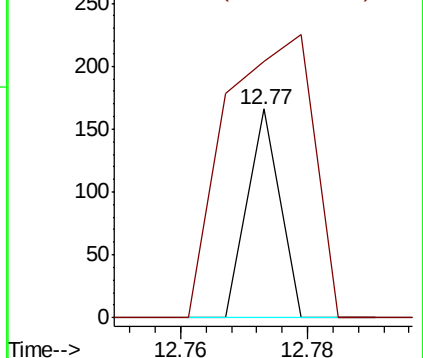
Ion Ratio Lower Upper

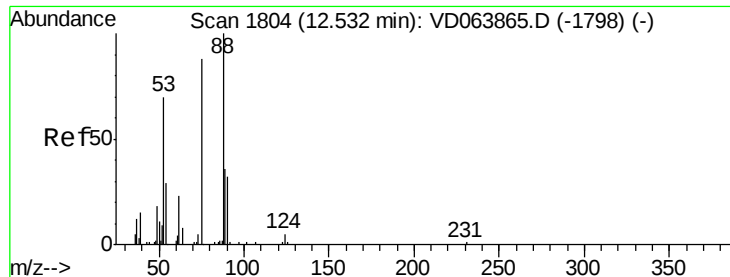
75 100

77 362.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 7.066 ug/l

RT: 12.50 min Scan# 1798

Delta R.T. -0.04 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

Instrument :

MSVOA_D

ClientSampleId :

10-10-C

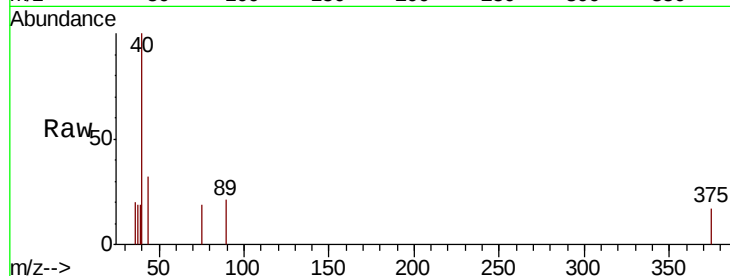
Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

53 0.0 75.0 112.6#

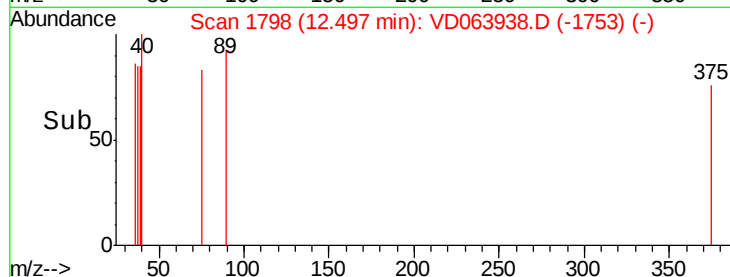
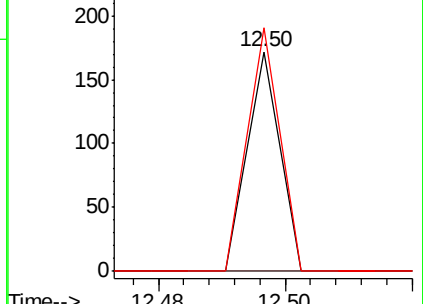
89 109.8 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#92

1,2-Dibromo-3-Chloropropane

Concen: 32.676 ug/l

RT: 14.47 min Scan# 2134

Delta R.T. -0.04 min

Lab File: VD063938.D

Acq: 11 Oct 2019 15:43

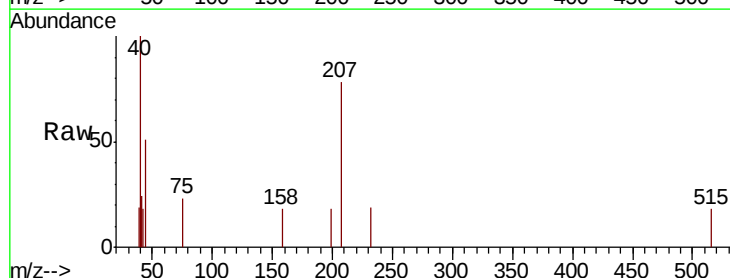
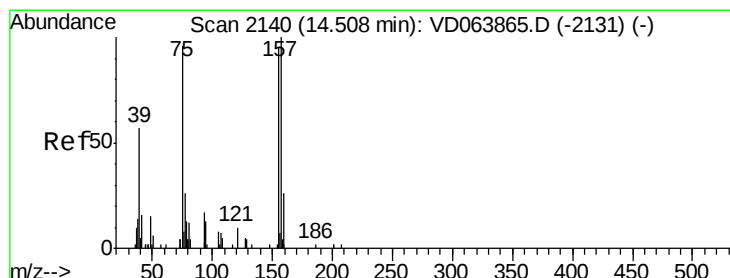
Tgt Ion: 75 Resp: 139

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

