

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102419\
 Data File : VD064052.D
 Acq On : 24 Oct 2019 18:14
 Operator : VA/SY
 Sample : K5497-08RE
 Misc : 5.32G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 168-74-(1)RE

Quant Time: Oct 25 03:59:22 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	7.73	168	54	50.00	ug/l	-0.25
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-8.87
63) Chlorobenzene-d5	11.66	117	61	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.58	152	74	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.91	65	59	112.22	ug/l	-0.42
Spiked Amount	50.000		Recovery	=	224.44%	
35) Dibromofluoromethane	8.01	113	185	0.00	ug/l	0.09
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	10.35	98	72	0.00	ug/l	0.01
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds						Qvalue
3) Chloromethane	2.08	50	81	81.021	ug/l #	40
4) Vinyl Chloride	2.31	62	126	101.800	ug/l #	43
5) Bromomethane	2.55	94	56	70.376	ug/l #	5
6) Chloroethane	2.83	64	55	67.192	ug/l #	46
7) Trichlorofluoromethane	2.94	101	107	65.385	ug/l #	18
8) Diethyl Ether	3.35	74	55	209.395	ug/l	78
9) 1,1,2-Trichlorotrifluoroet	3.90	101	79	174.400	ug/l #	16
11) Tert butyl alcohol	5.09	59	57	1604.073	ug/l #	71
12) 1,1-Dichloroethene	4.14	96	72	159.093	ug/l #	1
13) Acrolein	3.79	56	60	1277.817	ug/l #	17
14) Allyl chloride	4.61	41	72	95.691	ug/l #	1
15) Acrylonitrile	5.33	53	119	1027.604	ug/l #	17
16) Acetone	4.00	43	70	511.411	ug/l #	42
17) Carbon Disulfide	4.18	76	69	41.942	ug/l #	79
18) Methyl Acetate	4.58	43	66	246.531	ug/l #	1
19) Methyl tert-butyl Ether	5.21	73	55	46.932	ug/l #	53
20) Methylene Chloride	4.97	84	61	103.669	ug/l #	7
21) trans-1,2-Dichloroethene	5.30	96	84	149.098	ug/l #	1
22) Diisopropyl ether	6.19	45	60	39.045	ug/l #	38
23) Vinyl Acetate	6.20	43	89	97.358	ug/l #	71
24) 1,1-Dichloroethane	6.03	63	80	84.519	ug/l #	82
25) 2-Butanone	7.01	43	122	752.097	ug/l #	51
26) 2,2-Dichloropropane	6.88	77	78	91.097	ug/l #	53
28) Bromochloromethane	7.28	49	62	167.730	ug/l #	10
29) Tetrahydrofuran	7.28	42	65	686.517	ug/l #	31
30) Chloroform	7.54	83	102	99.217	ug/l #	20
31) Cyclohexane	7.67	56	54	70.652	ug/l #	12
32) 1,1,1-Trichloroethane	7.73	97	73	82.779	ug/l #	24
65) Chlorobenzene	11.73	112	127	103.669	ug/l #	43
67) Ethyl Benzene	11.47	91	75	33.952	ug/l #	44
68) m/p-Xylenes	11.94	106	55	64.507	ug/l #	1
69) o-Xylene	12.19	106	55	67.367	ug/l #	1
70) Styrene	12.11	104	76	54.989	ug/l #	27
71) Bromoform	12.58	173	65	268.314	ug/l #	28

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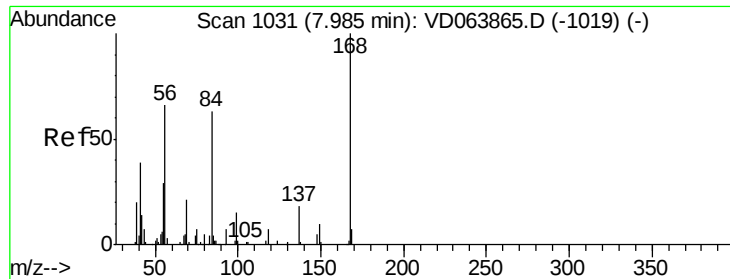
Instrument :
 MSVOA_D
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 168-74-(1)RE

Quant Time: Oct 25 03:59:22 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

73) Isopropylbenzene	12.26	105	57	11.458	ug/l #	48
74) N-amyl acetate	12.26	43	62	57.887	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.62	83	60	69.312	ug/l #	25
76) 1,2,3-Trichloropropane	12.84	75	56	112.987	ug/l #	100
77) Bromobenzene	12.50	156	81	65.354	ug/l #	1
78) n-propylbenzene	12.83	91	127	21.750	ug/l #	51
79) 2-Chlorotoluene	12.83	91	127	39.445	ug/l #	38
80) 1,3,5-Trimethylbenzene	12.73	105	67	16.144	ug/l #	26
82) 4-Chlorotoluene	13.16	91	59	17.274	ug/l #	38
83) tert-Butylbenzene	13.20	119	68	18.410	ug/l #	29
84) 1,2,4-Trimethylbenzene	13.30	105	53	12.387	ug/l #	29
85) sec-Butylbenzene	13.30	105	53	10.625	ug/l #	55
86) p-Isopropyltoluene	13.45	119	55	11.652	ug/l #	50
87) 1,3-Dichlorobenzene	13.56	146	60	24.501	ug/l #	26
88) 1,4-Dichlorobenzene	13.56	146	60	24.835	ug/l #	25
89) n-Butylbenzene	13.82	91	74	16.843	ug/l #	32
90) Hexachloroethane	14.12	117	61	71.855	ug/l #	9
91) 1,2-Dichlorobenzene	14.00	146	87	41.224	ug/l #	26
92) 1,2-Dibromo-3-Chloropropan	14.48	75	66	513.495	ug/l #	1
95) Naphthalene	15.37	128	73	26.672	ug/l #	5

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.73 min Scan# 988

Delta R.T. -0.25 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

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MSVOA_D

ClientSampleId :

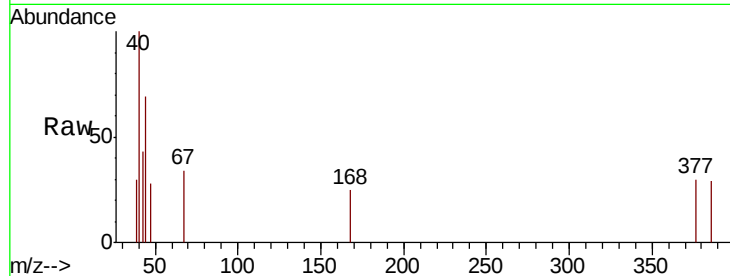
168-74-(1)RE

Tot Ion:168 Resp: 54

Ion Ratio Lower Upper

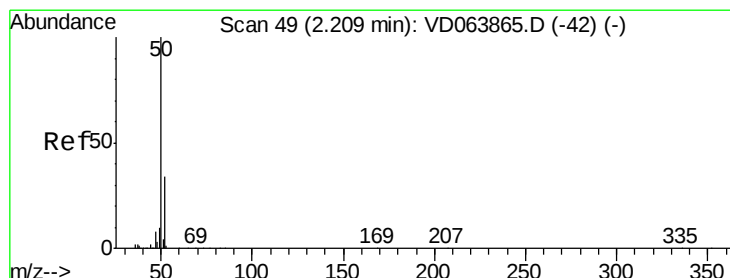
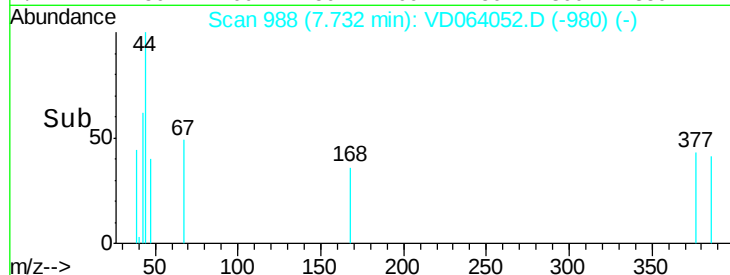
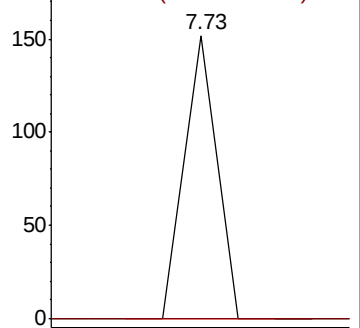
168 100

99 0.0 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: 81.021 ug/l

RT: 2.08 min Scan# 27

Delta R.T. -0.13 min

Lab File: VD064052.D

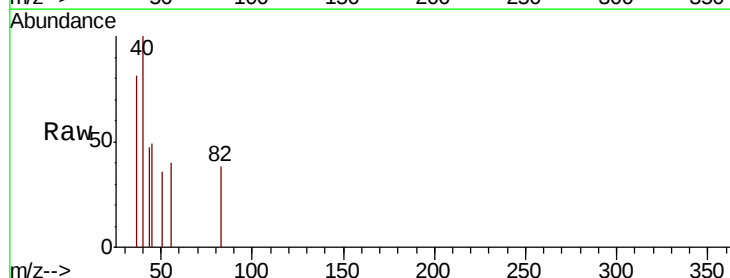
Acq: 24 Oct 2019 18:14

Tgt Ion: 50 Resp: 81

Ion Ratio Lower Upper

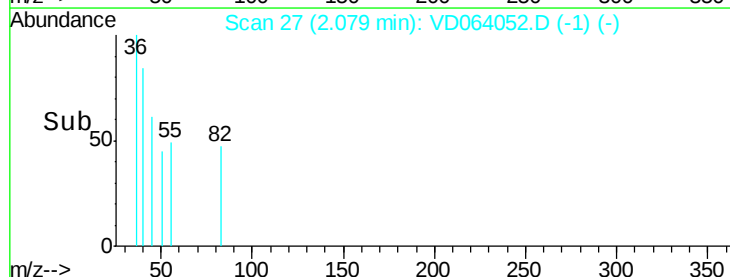
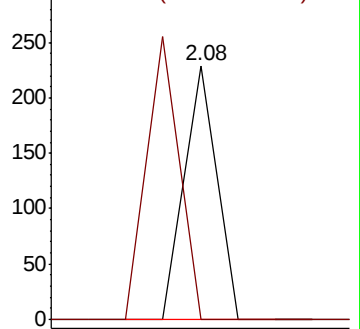
50 100

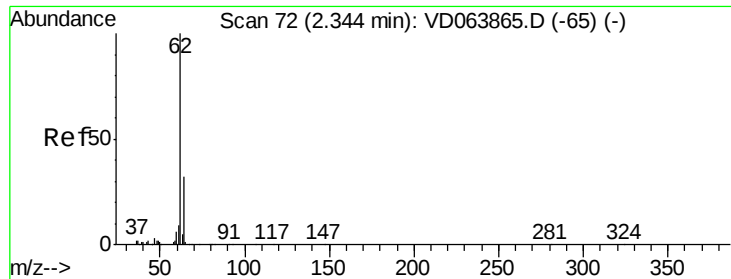
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 101.800 ug/l

RT: 2.31 min Scan# 66

Delta R.T. -0.04 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

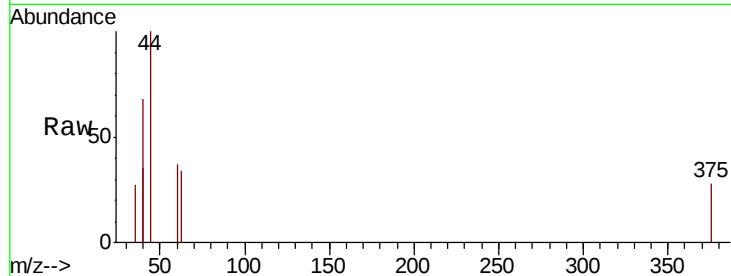
168-74-(1)RE

Tot Ion: 62 Resp: 126

Ion Ratio Lower Upper

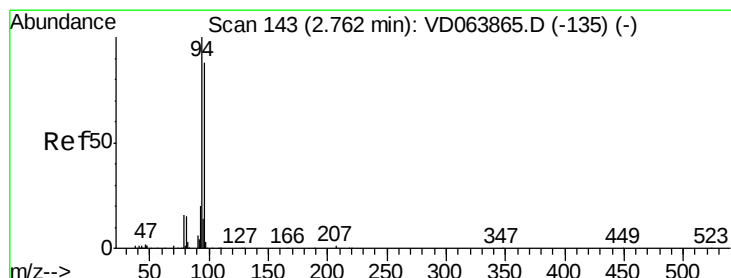
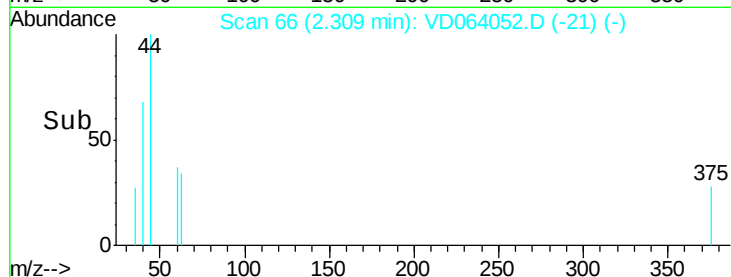
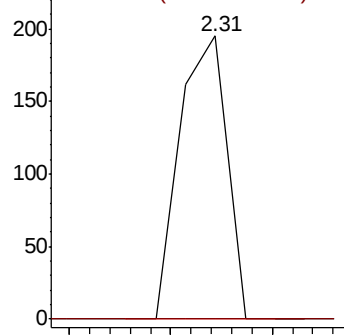
62 100

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: 70.376 ug/l

RT: 2.55 min Scan# 107

Delta R.T. -0.21 min

Lab File: VD064052.D

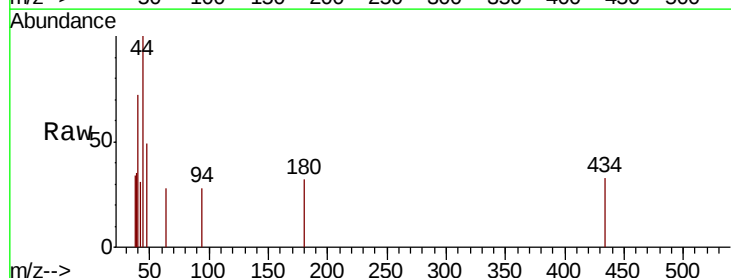
Acq: 24 Oct 2019 18:14

Tgt Ion: 94 Resp: 56

Ion Ratio Lower Upper

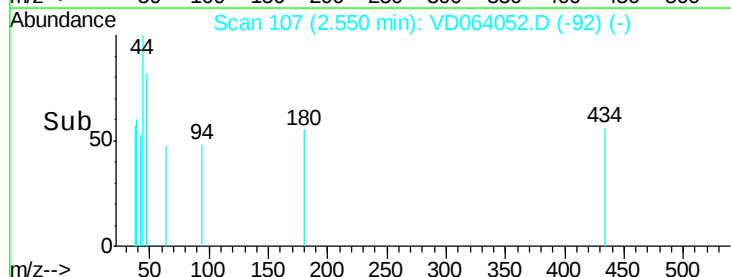
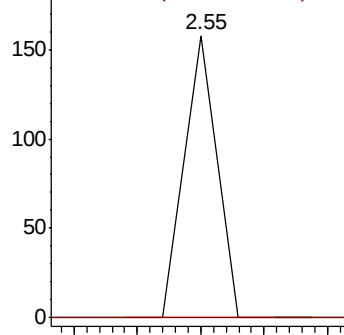
94 100

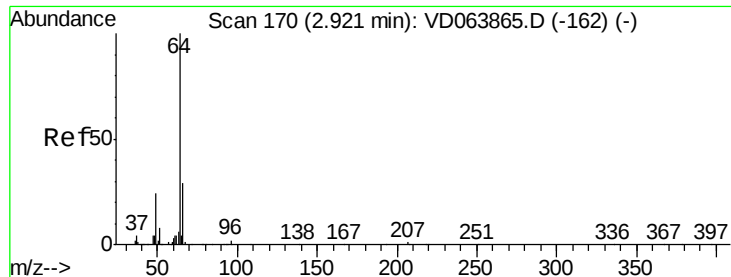
96 0.0 70.8 106.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#6

Chloroethane

Concen: 67.192 ug/l

RT: 2.83 min Scan# 154

Delta R.T. -0.09 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

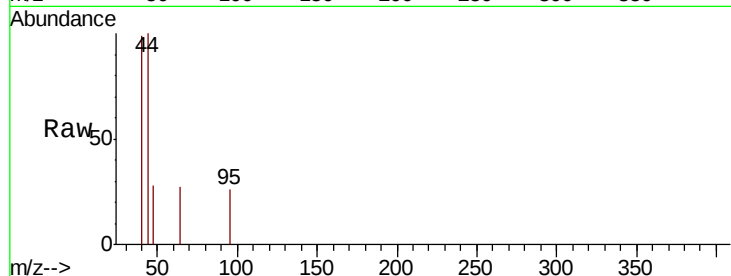
168-74-(1)RE

Tot Ion: 64 Resp: 55

Ion Ratio Lower Upper

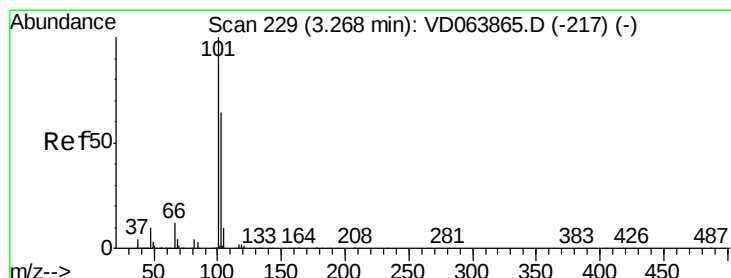
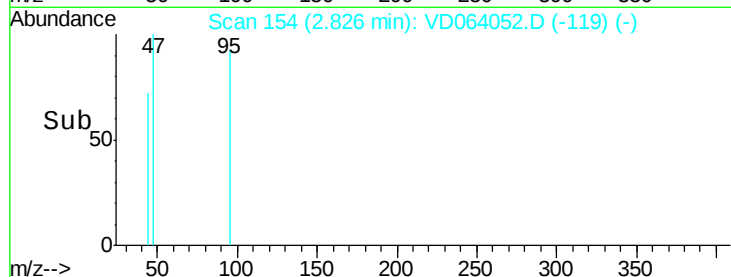
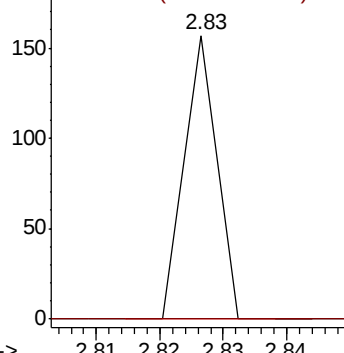
64 100

66 0.0 23.0 34.4#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



#7

Trichlorofluoromethane

Concen: 65.385 ug/l

RT: 2.94 min Scan# 173

Delta R.T. -0.33 min

Lab File: VD064052.D

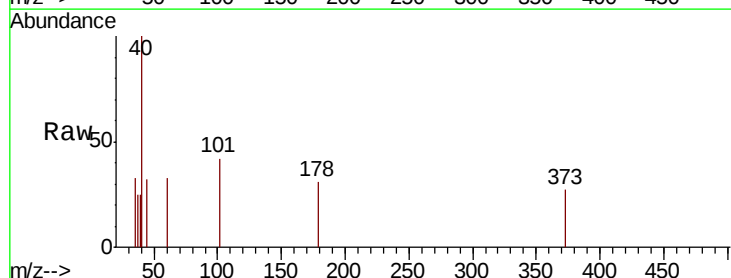
Acq: 24 Oct 2019 18:14

Tgt Ion: 101 Resp: 107

Ion Ratio Lower Upper

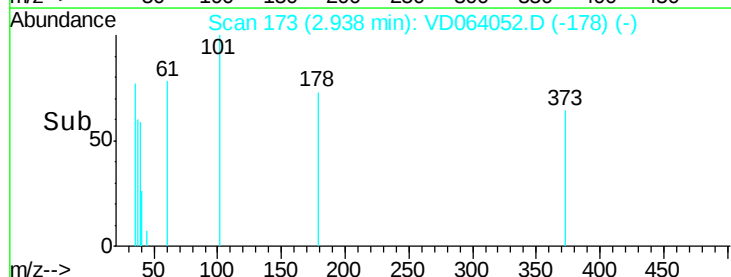
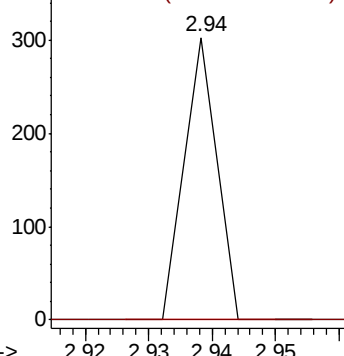
101 100

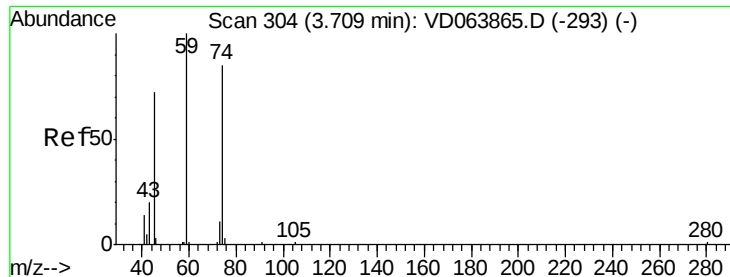
103 0.0 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#8

Diethyl Ether

Concen: 209.395 ug/l

RT: 3.35 min Scan# 243

Delta R.T. -0.36 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

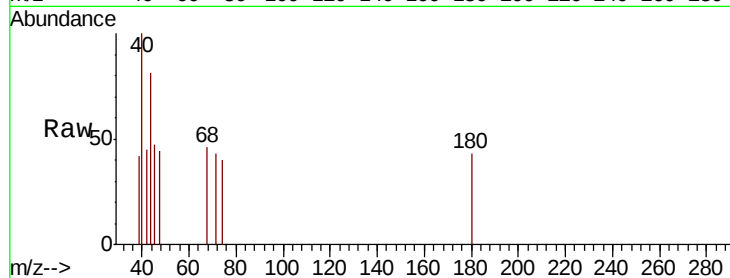
168-74-(1)RE

Tot Ion: 74 Resp: 55

Ion Ratio Lower Upper

74 100

45 118.2 48.1 144.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

3.35

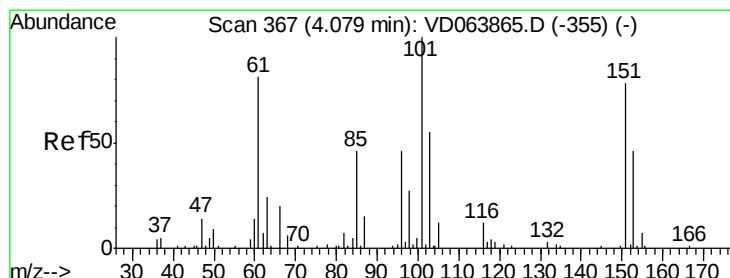
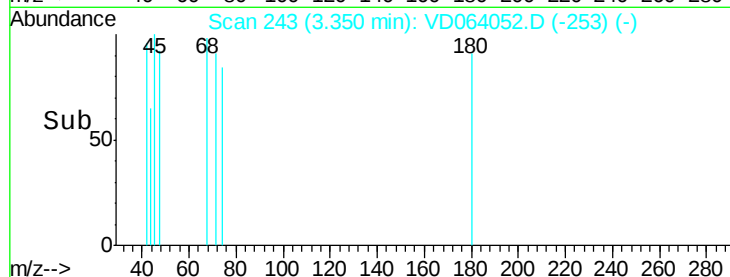
150

100

50

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 174.400 ug/l

RT: 3.90 min Scan# 337

Delta R.T. -0.18 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

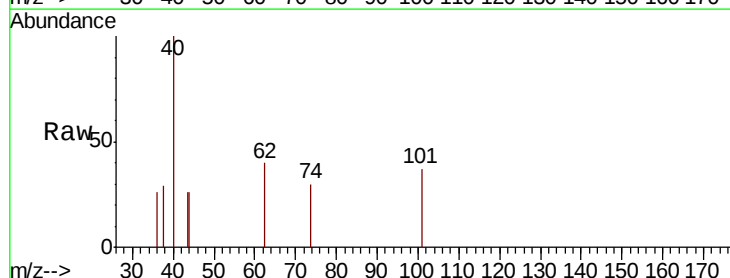
Tgt Ion: 101 Resp: 79

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

3.90

250

200

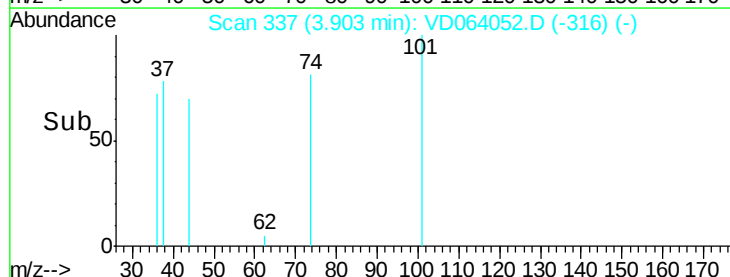
150

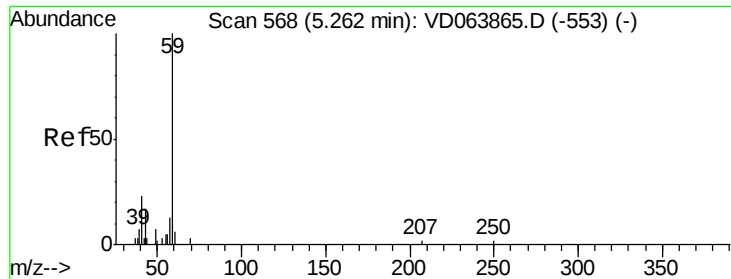
100

50

0

Time-->

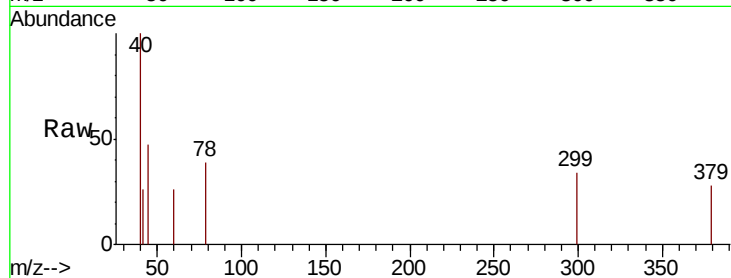




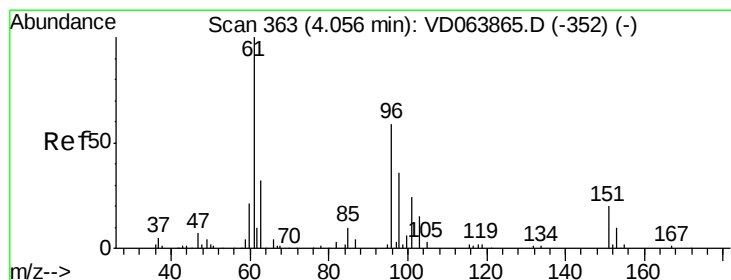
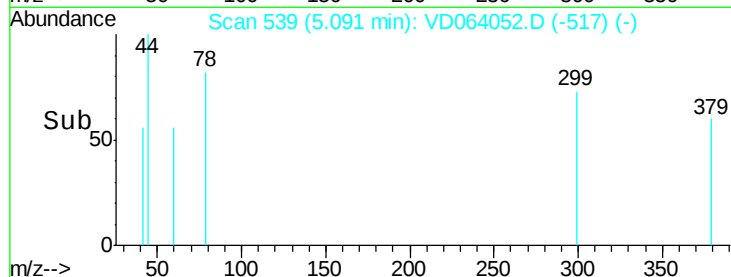
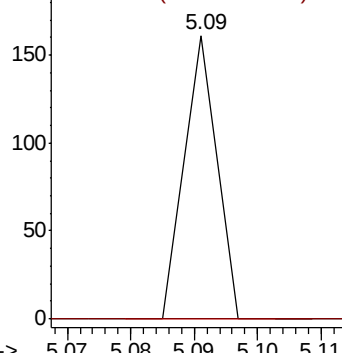
#11
Tert butyl alcohol
Concen: 1604.073 ug/l
RT: 5.09 min Scan# 539
Delta R.T. -0.17 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

Instrument :
MSVOA_D
ClientSampleId :
168-74-(1)RE

Tot Ion: 59 Resp: 57
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

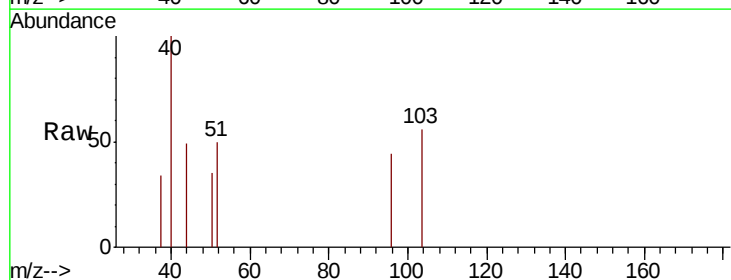


Abundance Ion 59.00 (58.70 to 59.70): VDC
Ion 57.00 (56.70 to 57.70): VDC

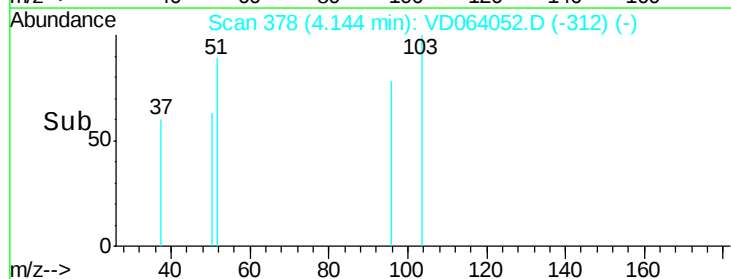
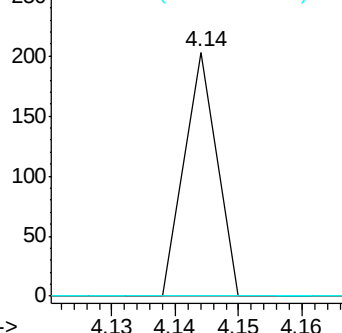


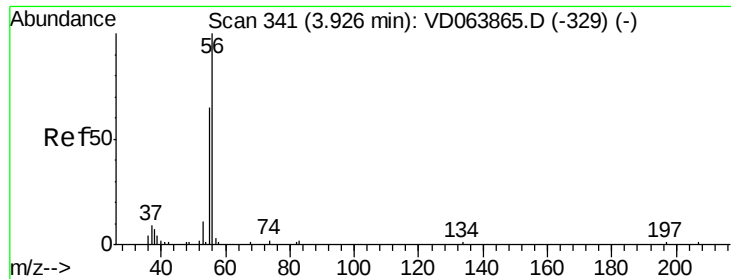
#12
1,1-Dichloroethene
Concen: 159.093 ug/l
RT: 4.14 min Scan# 378
Delta R.T. 0.09 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

Tgt Ion: 96 Resp: 72
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: 1277.817 ug/l

RT: 3.79 min Scan# 317

Delta R.T. -0.14 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

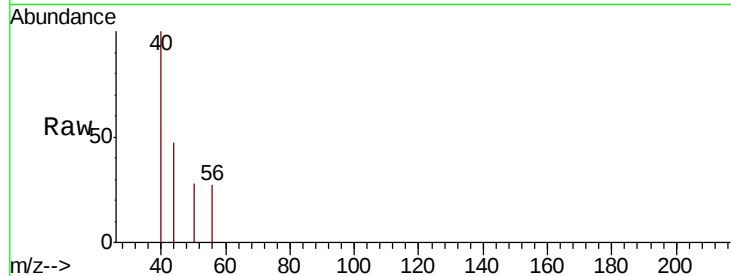
168-74-(1)RE

Tot Ion: 56 Resp: 60

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

3.79

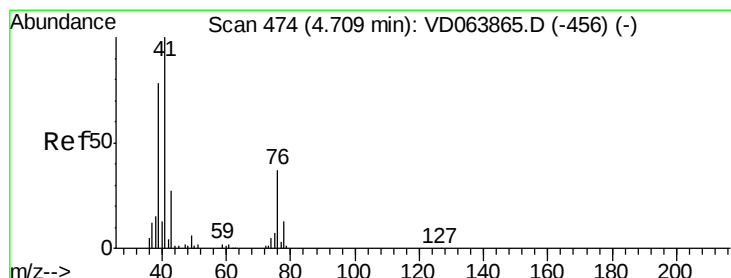
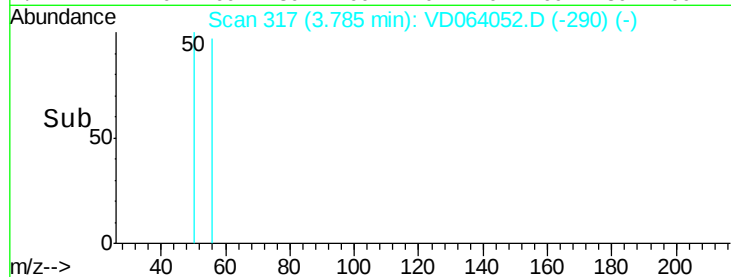
150

100

50

0

Time-->



#14

Allyl chloride

Concen: 95.691 ug/l

RT: 4.61 min Scan# 457

Delta R.T. -0.10 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

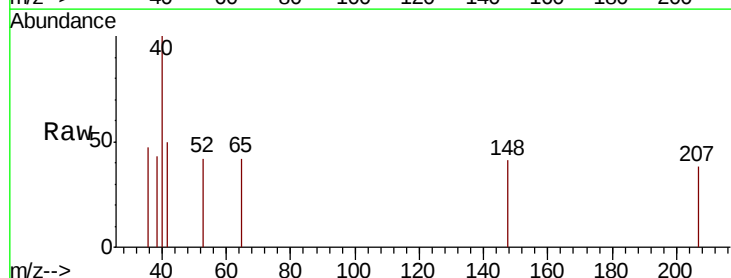
Tgt Ion: 41 Resp: 72

Ion Ratio Lower Upper

41 100

39 277.8 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

500

400

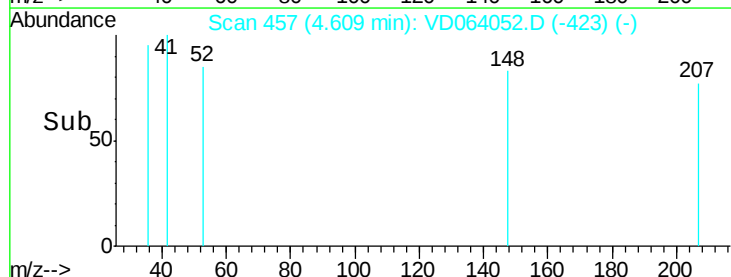
300

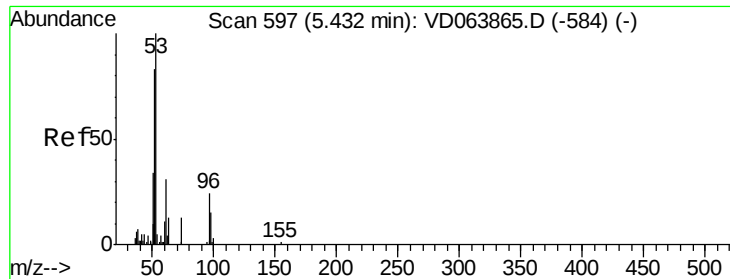
200

100

0

Time-->





#15

Acrylonitrile

Concen: 1027.604 ug/l

RT: 5.33 min Scan# 579

Delta R.T. -0.11 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

168-74-(1)RE

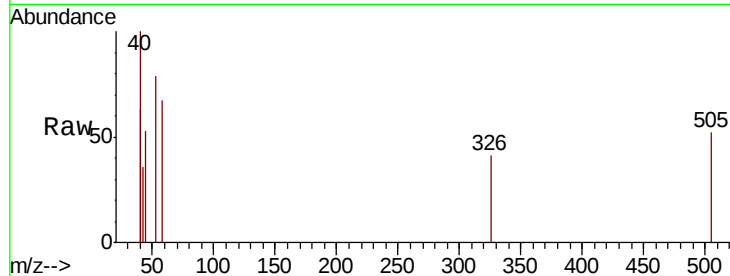
Tot Ion: 53 Resp: 119

Ion Ratio Lower Upper

53 100

52 0.0 67.3 100.9#

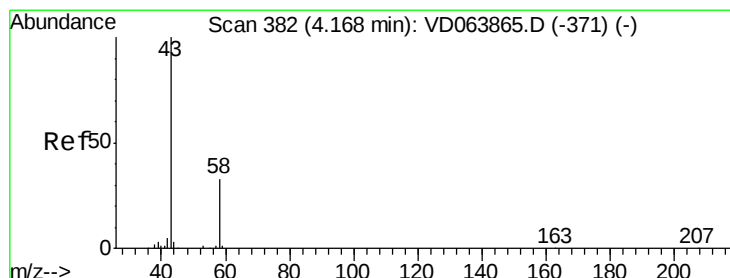
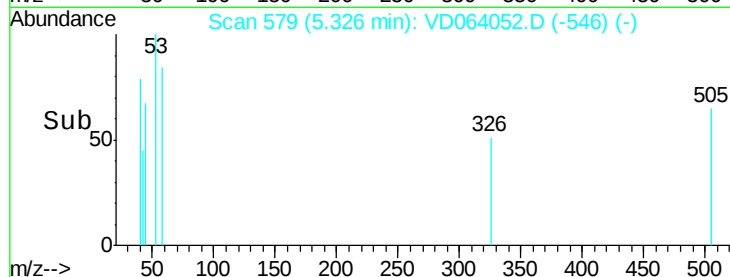
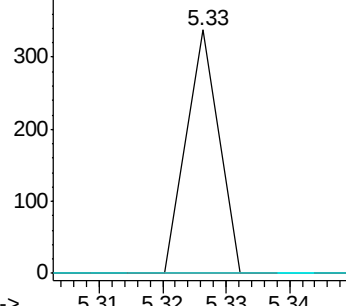
51 0.0 30.5 45.7#



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: 511.411 ug/l

RT: 4.00 min Scan# 353

Delta R.T. -0.17 min

Lab File: VD064052.D

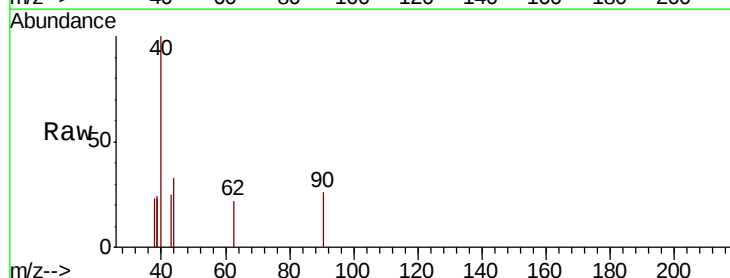
Acq: 24 Oct 2019 18:14

Tgt Ion: 43 Resp: 70

Ion Ratio Lower Upper

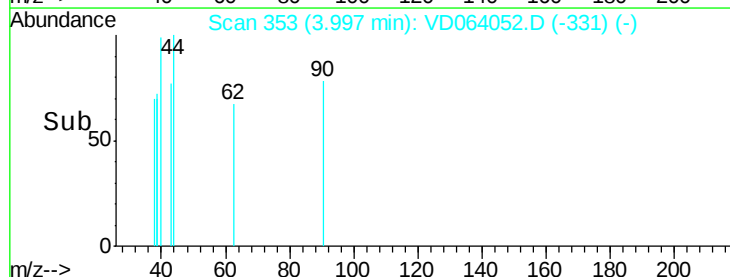
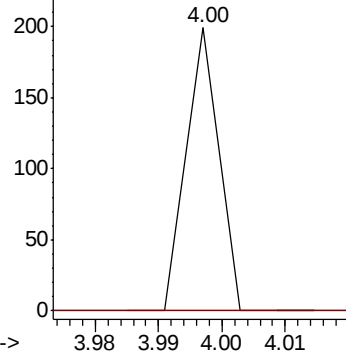
43 100

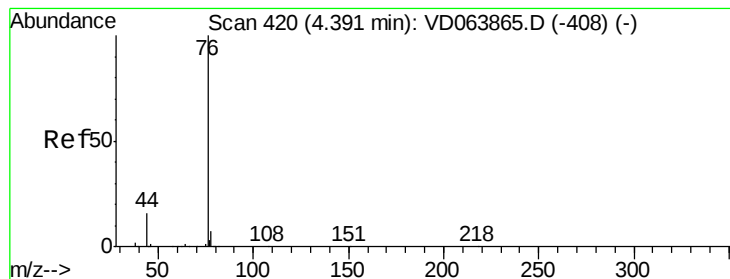
58 0.0 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 41.942 ug/l

RT: 4.18 min Scan# 384

Delta R.T. -0.21 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

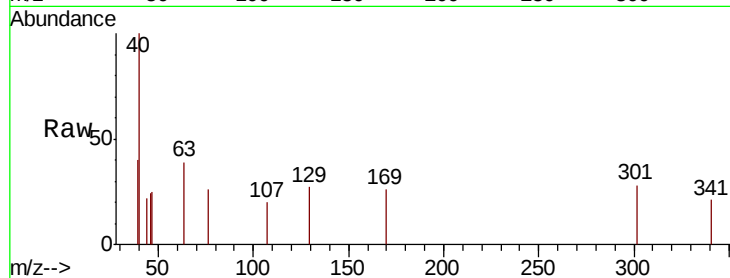
168-74-(1)RE

Tot Ion: 76 Resp: 69

Ion Ratio Lower Upper

76 100

78 0.0 5.8 8.8#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.18

200

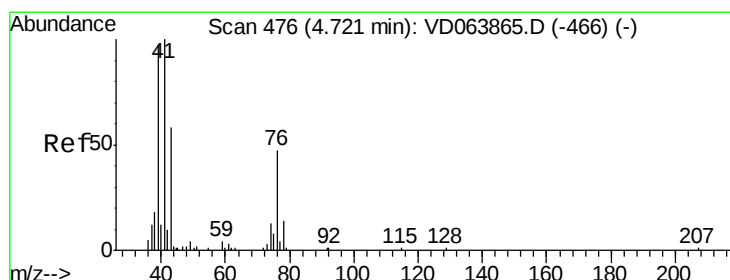
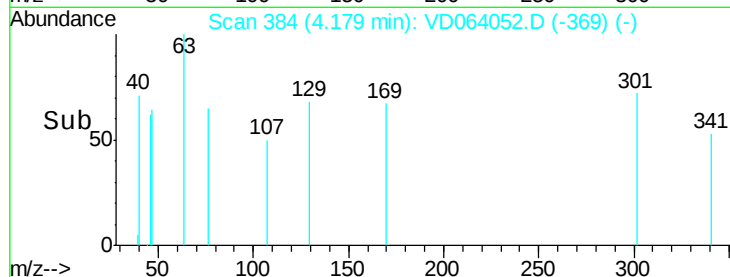
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 246.531 ug/l

RT: 4.58 min Scan# 452

Delta R.T. -0.14 min

Lab File: VD064052.D

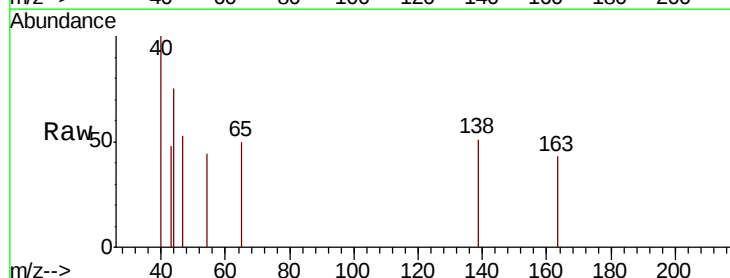
Acq: 24 Oct 2019 18:14

Tgt Ion: 43 Resp: 66

Ion Ratio Lower Upper

43 100

74 86.4 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.58

200

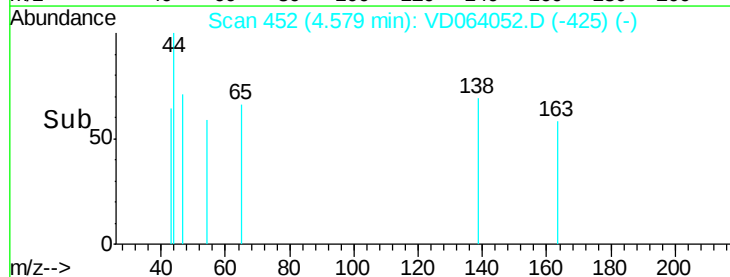
150

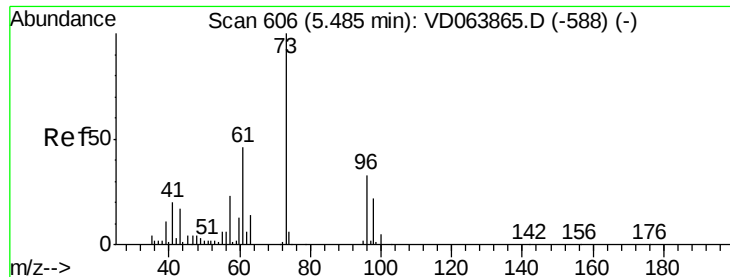
100

50

0

Time-->



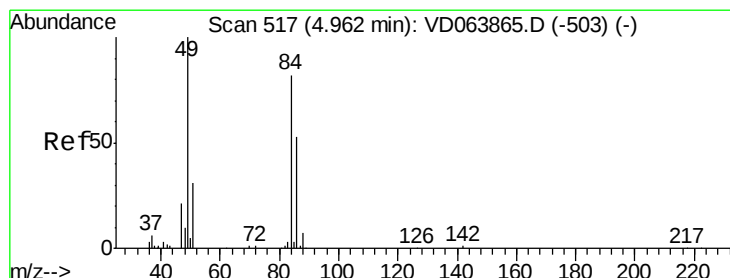
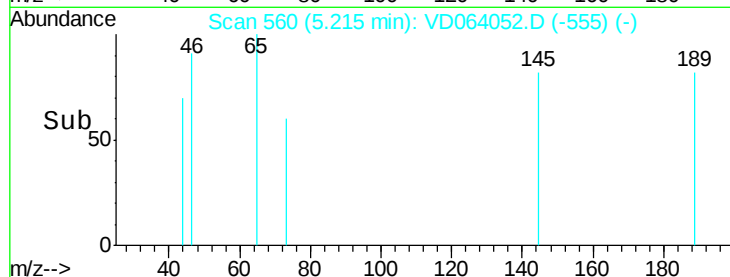
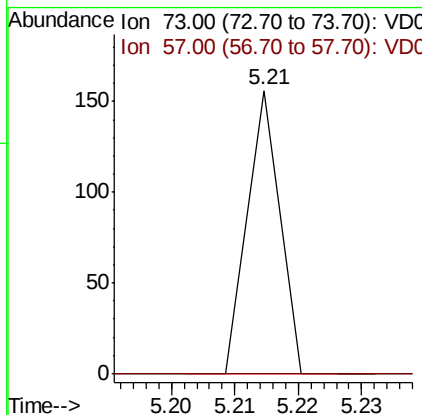
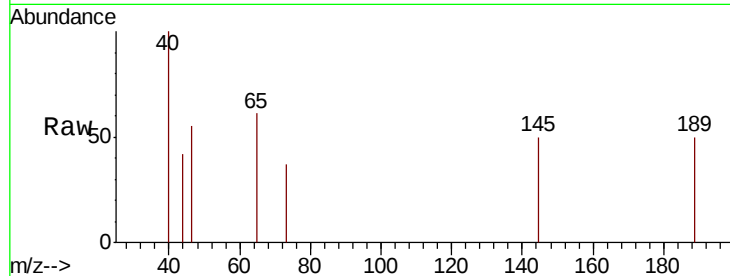


#19

Methyl tert-butyl Ether
 Concen: 46.932 ug/l
 RT: 5.21 min Scan# 560
 Delta R.T. -0.27 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

Instrument :
 MSVOA_D
 ClientSampleId :
 168-74-(1)RE

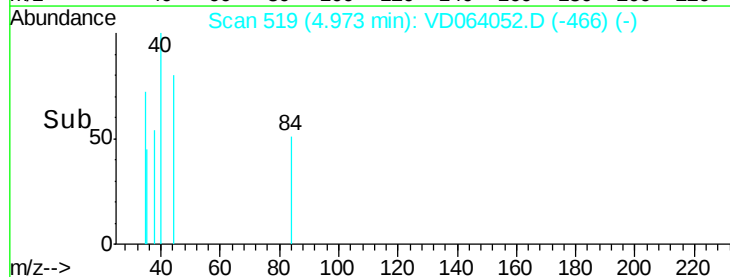
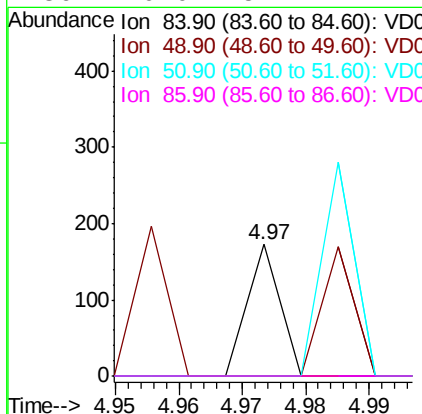
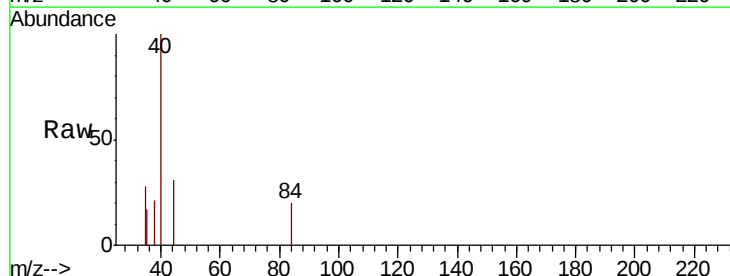
Tot Ion: 73 Resp: 55
 Ion Ratio Lower Upper
 73 100
 57 0.0 18.1 27.1#

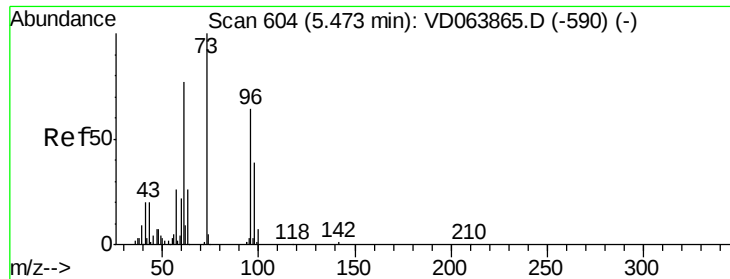


#20

Methylene Chloride
 Concen: 103.669 ug/l
 RT: 4.97 min Scan# 519
 Delta R.T. 0.01 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

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#





#21

trans-1,2-Dichloroethene

Concen: 149.098 ug/l

RT: 5.30 min Scan# 575

Delta R.T. -0.17 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

168-74-(1)RE

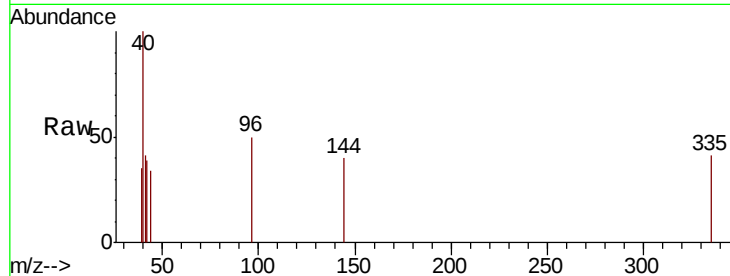
Tot Ion: 96 Resp: 84

Ion Ratio Lower Upper

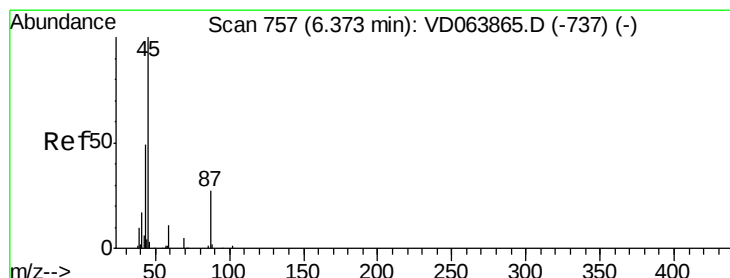
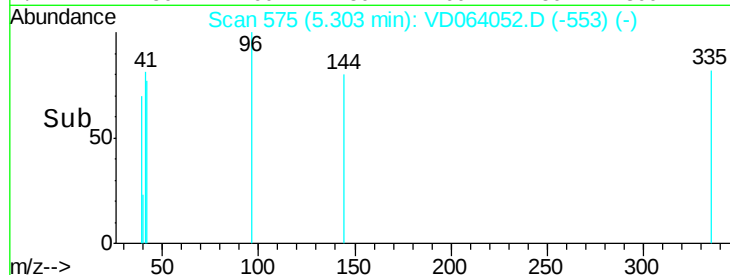
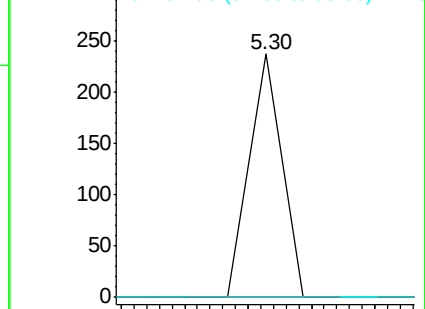
96 100

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



#22

Diisopropyl ether

Concen: 39.045 ug/l

RT: 6.19 min Scan# 725

Delta R.T. -0.19 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Tgt Ion: 45 Resp: 60

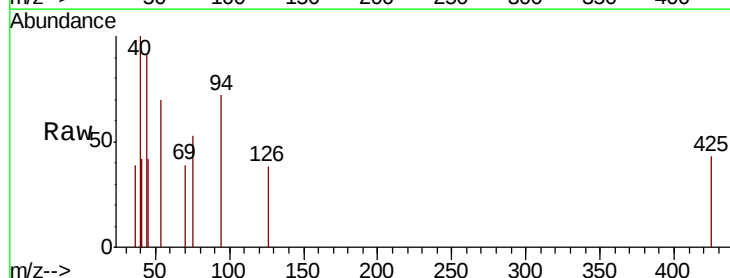
Ion Ratio Lower Upper

45 100

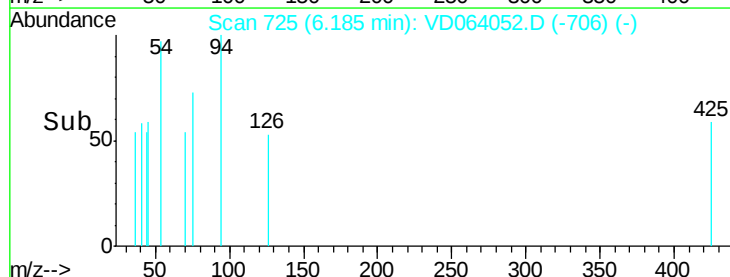
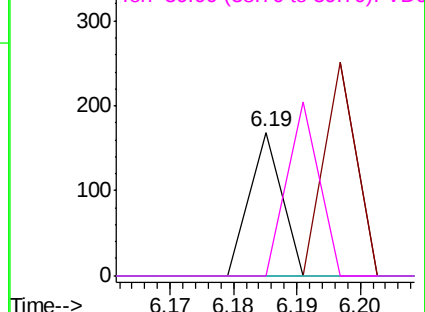
43 0.0 41.2 61.8#

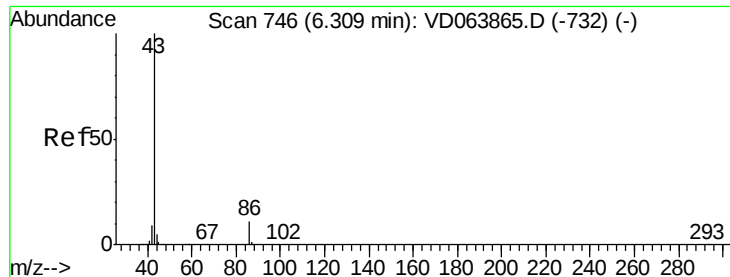
87 0.0 22.2 33.4#

59 0.0 9.2 13.8#



Abundance Ion 45.00 (44.70 to 45.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 97.358 ug/l

RT: 6.20 min Scan# 727

Delta R.T. -0.11 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

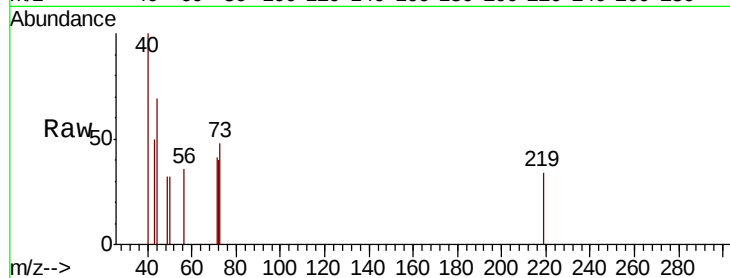
168-74-(1)RE

Tot Ion: 43 Resp: 89

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

6.20

250

200

150

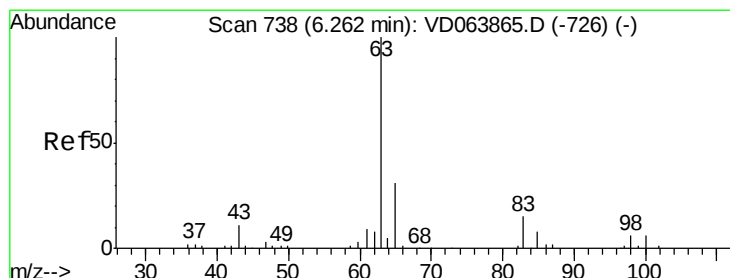
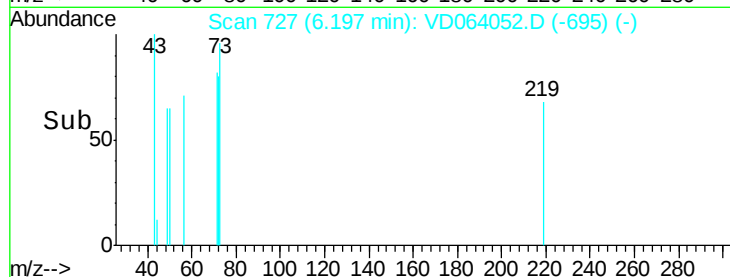
100

50

0

6.18 6.19 6.20 6.21

Time-->



#24

1,1-Dichloroethane

Concen: 84.519 ug/l

RT: 6.03 min Scan# 698

Delta R.T. -0.24 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

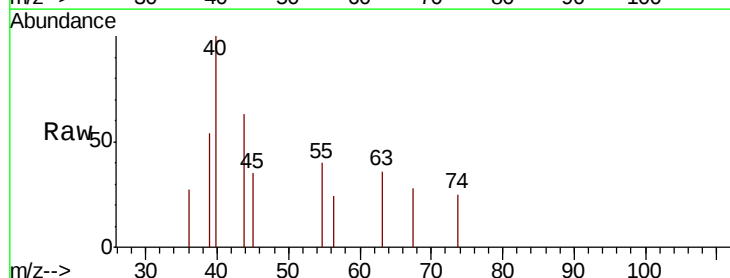
Tgt Ion: 63 Resp: 80

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

6.03

300

250

200

150

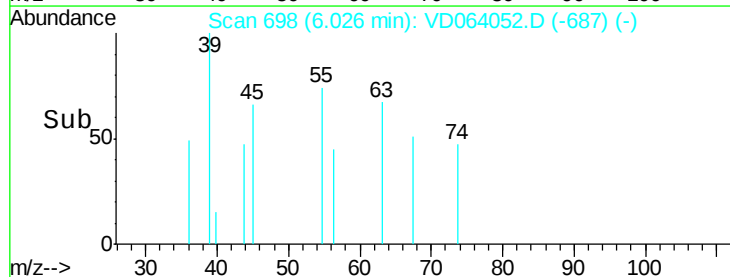
100

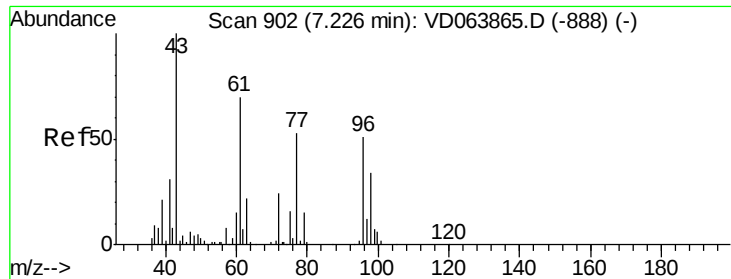
50

0

6.01 6.02 6.03 6.04

Time-->





#25

2-Butanone

Concen: 752.097 ug/l

RT: 7.01 min Scan# 866

Delta R.T. -0.21 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

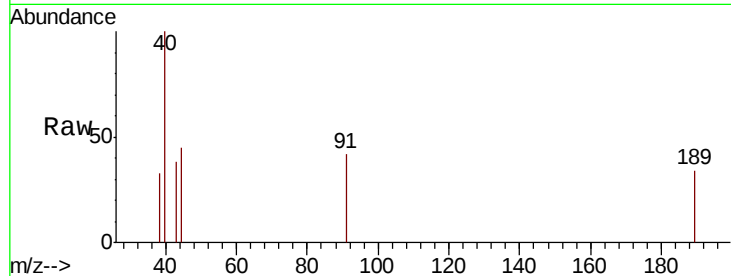
168-74-(1)RE

Tot Ion: 43 Resp: 122

Ion Ratio Lower Upper

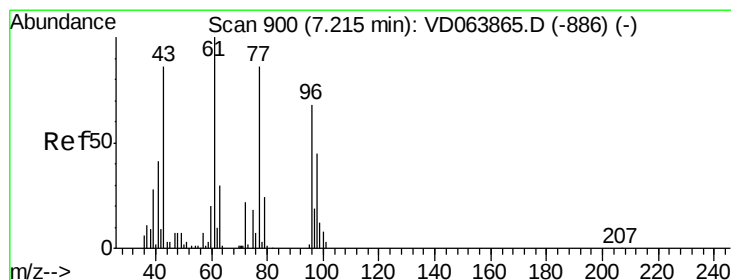
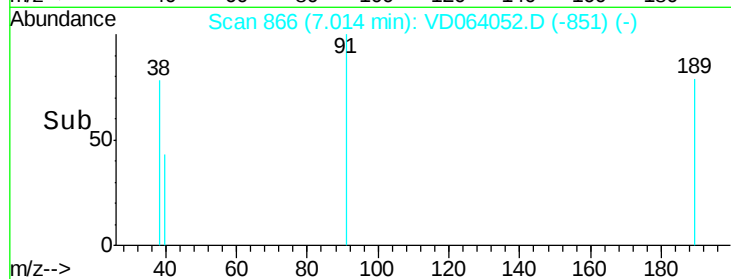
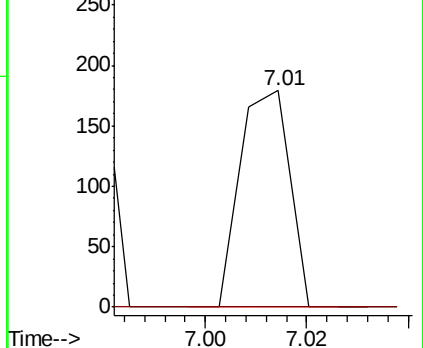
43 100

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: 91.097 ug/l

RT: 6.88 min Scan# 843

Delta R.T. -0.34 min

Lab File: VD064052.D

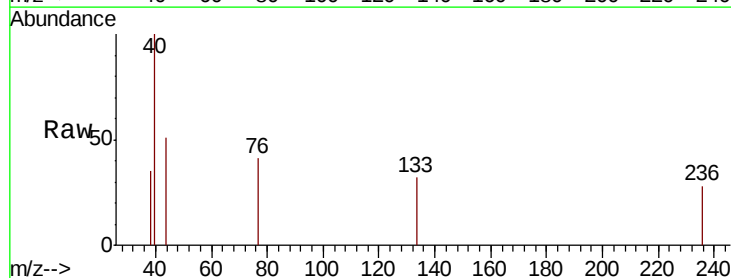
Acq: 24 Oct 2019 18:14

Tgt Ion: 77 Resp: 78

Ion Ratio Lower Upper

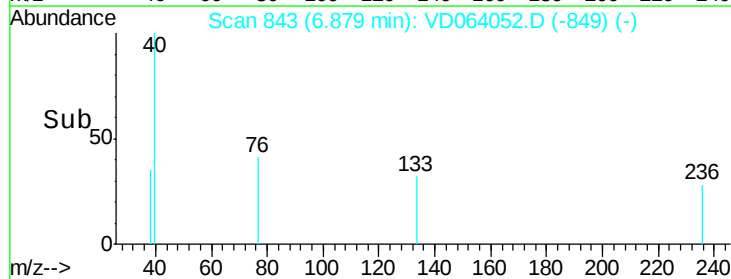
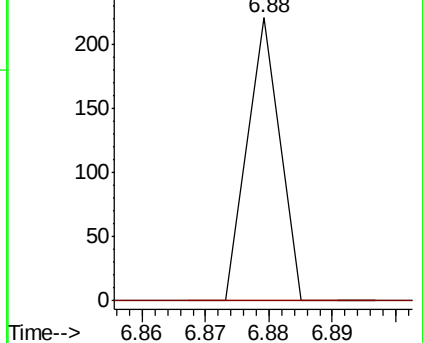
77 100

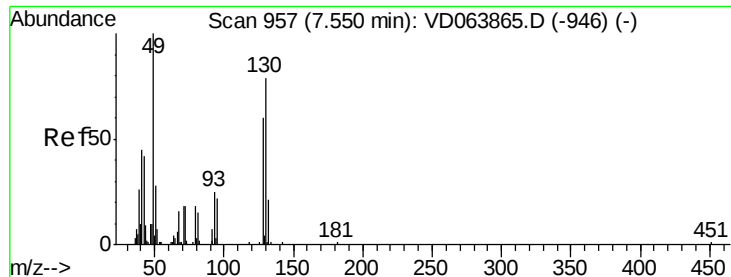
97 0.0 11.4 34.1#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

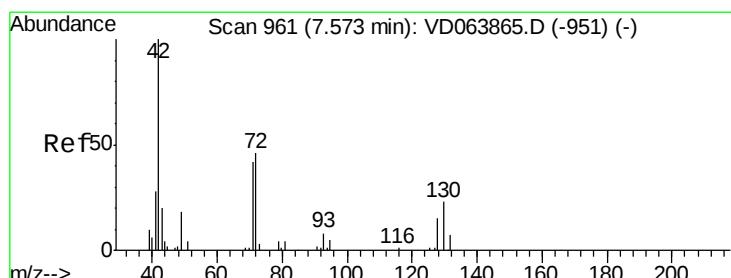
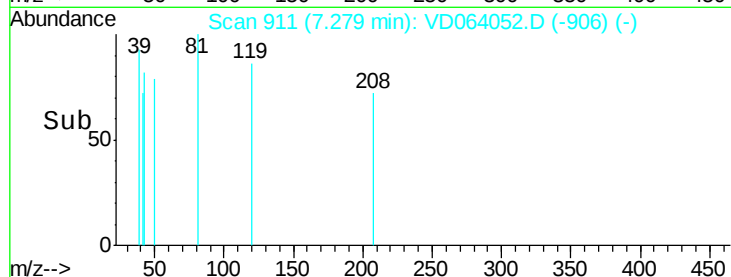
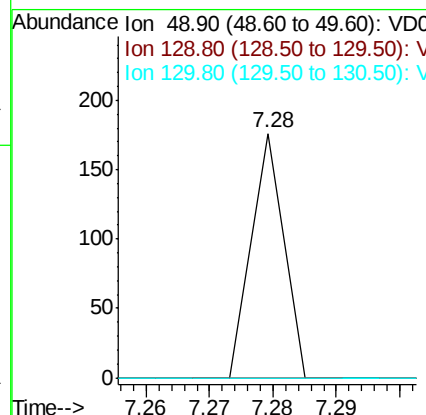
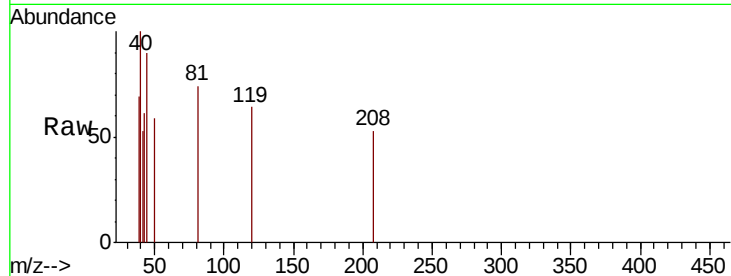




#28
Bromochloromethane
Concen: 167.730 ug/l
RT: 7.28 min Scan# 911
Delta R.T. -0.27 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

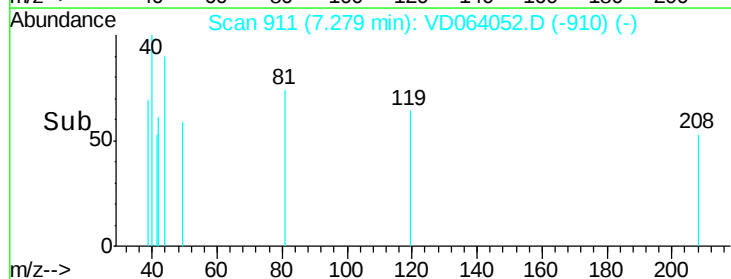
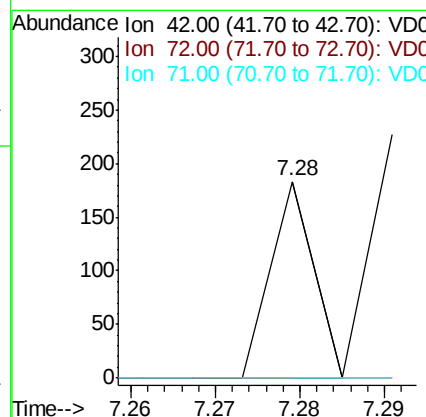
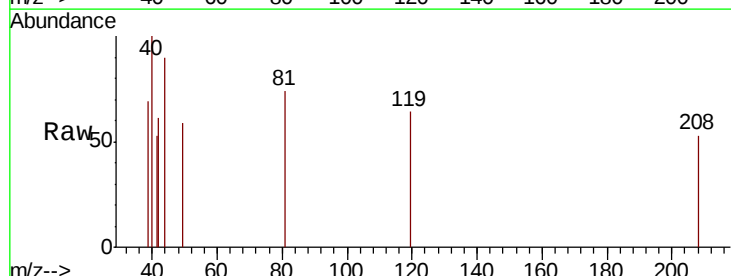
Instrument :
MSVOA_D
ClientSampleId :
168-74-(1)RE

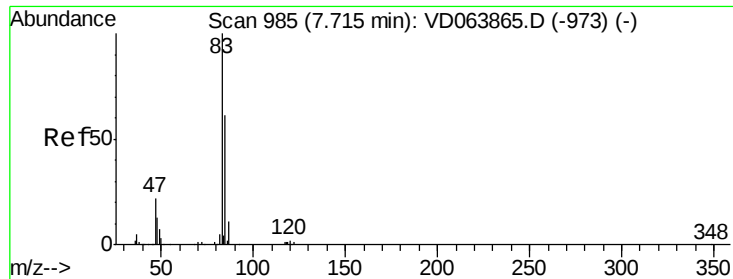
Tot Ion: 49 Resp: 62
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 0.0 66.8 100.2#



#29
Tetrahydrofuran
Concen: 686.517 ug/l
RT: 7.28 min Scan# 911
Delta R.T. -0.29 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

Tgt Ion: 42 Resp: 65
Ion Ratio Lower Upper
42 100
72 0.0 37.6 56.4#
71 0.0 35.0 52.6#

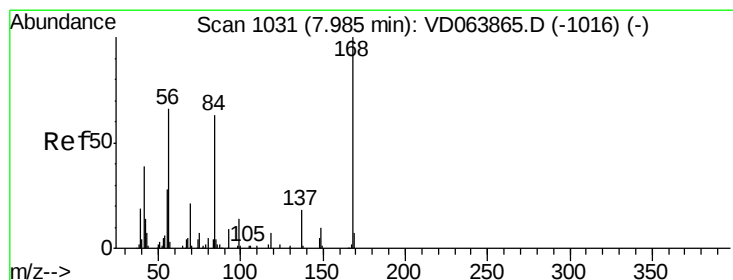
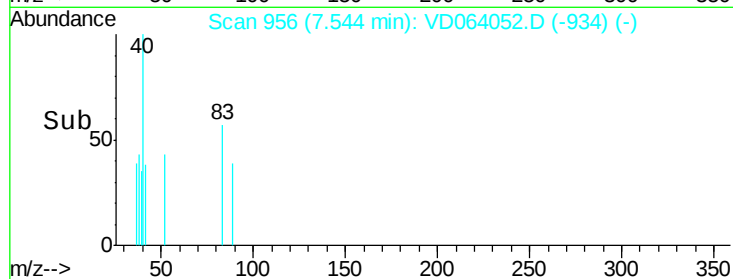
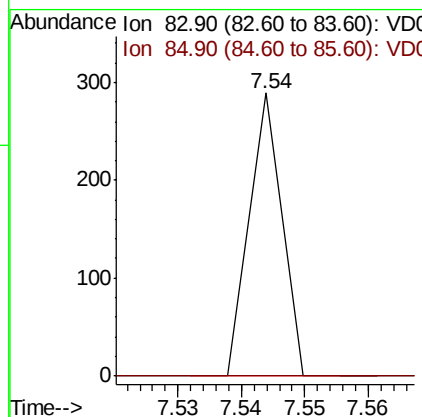
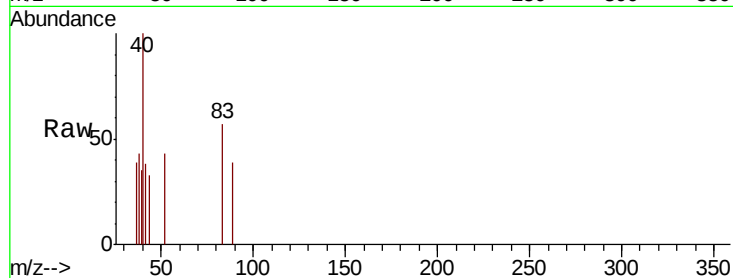




#30
Chloroform
Concen: 99.217 ug/l
RT: 7.54 min Scan# 956
Delta R.T. -0.17 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

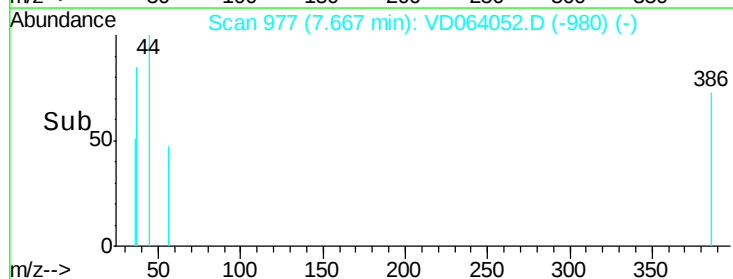
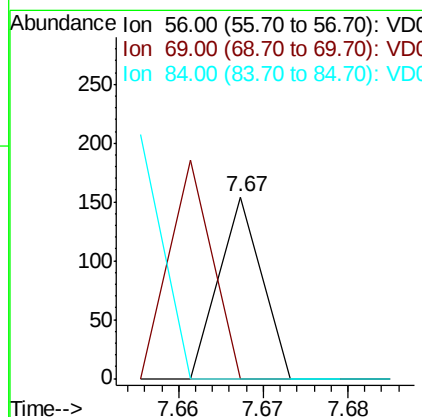
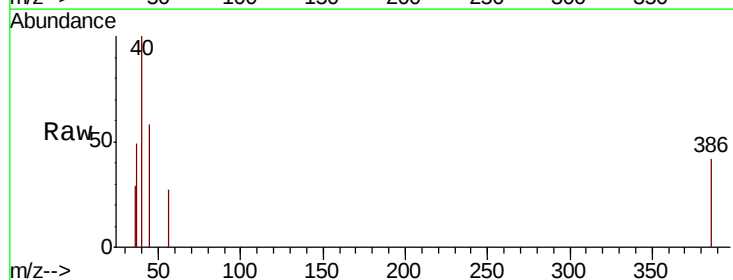
Instrument :
MSVOA_D
ClientSampleId :
168-74-(1)RE

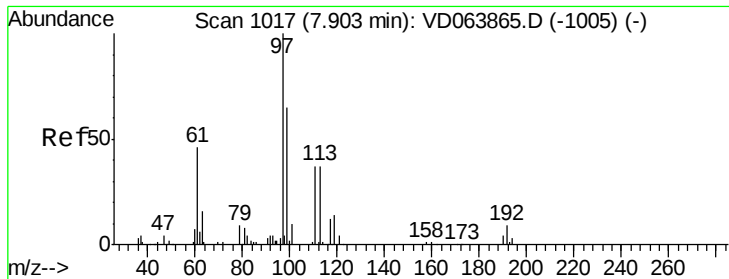
Tot Ion: 83 Resp: 102
Ion Ratio Lower Upper
83 100
85 0.0 48.9 73.3#



#31
Cyclohexane
Concen: 70.652 ug/l
RT: 7.67 min Scan# 977
Delta R.T. -0.32 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

Tgt Ion: 56 Resp: 54
Ion Ratio Lower Upper
56 100
69 0.0 25.0 37.4#
84 0.0 76.3 114.5#





#32

1,1,1-Trichloroethane

Concen: 82.779 ug/l

RT: 7.73 min Scan# 987

Delta R.T. -0.18 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

168-74-(1)RE

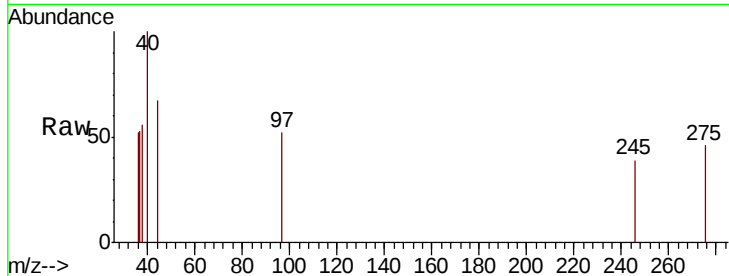
Tot Ion: 97 Resp: 73

Ion Ratio Lower Upper

97 100

99 0.0 52.4 78.6#

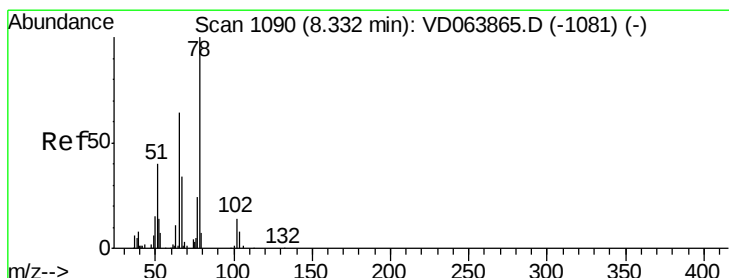
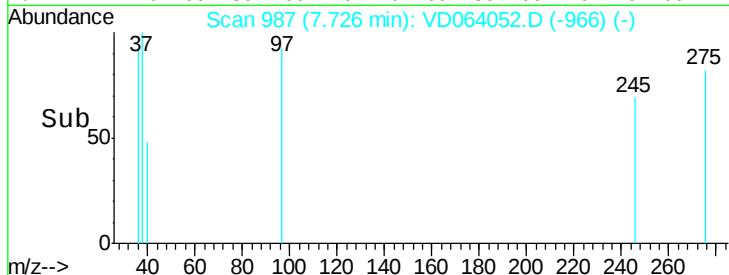
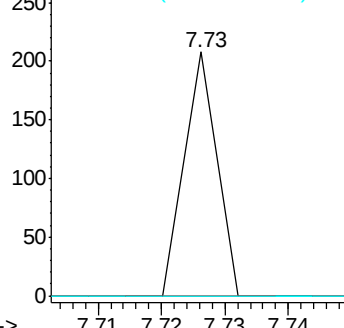
61 0.0 33.8 50.8#



Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

Ion 60.90 (60.60 to 61.60): VDC



#33

1,2-Dichloroethane-d4

Concen: 112.225 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.42 min

Lab File: VD064052.D

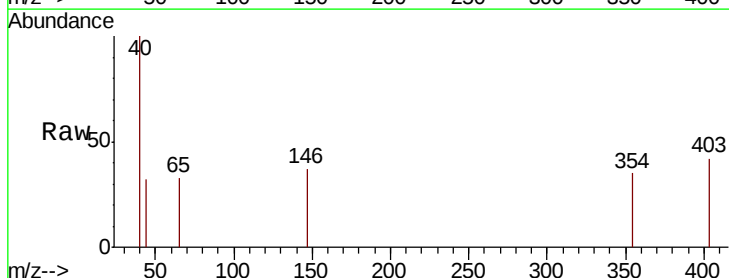
Acq: 24 Oct 2019 18:14

Tgt Ion: 65 Resp: 59

Ion Ratio Lower Upper

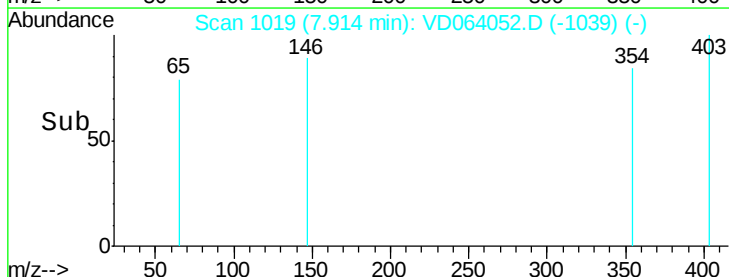
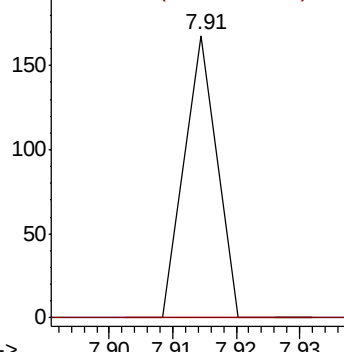
65 100

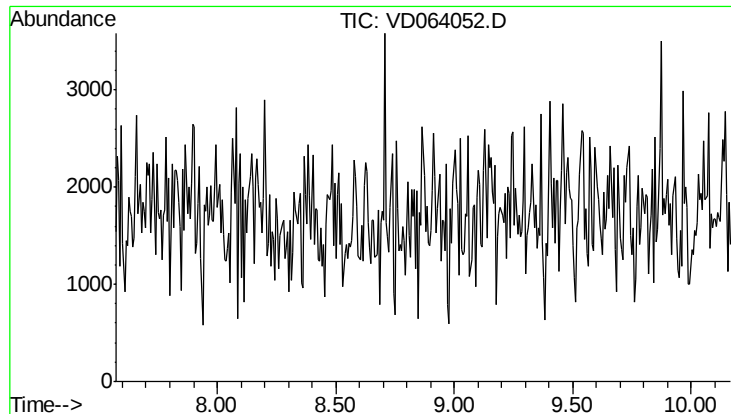
67 0.0 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

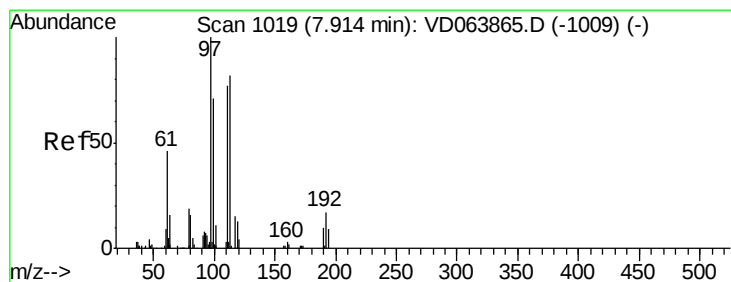
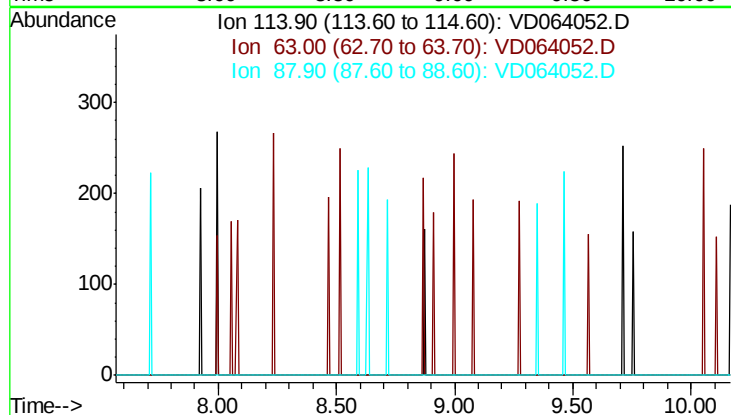




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 8.87 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

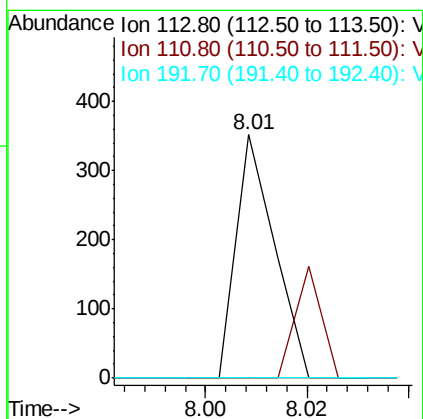
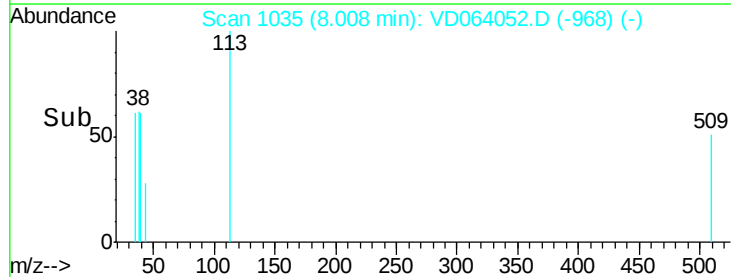
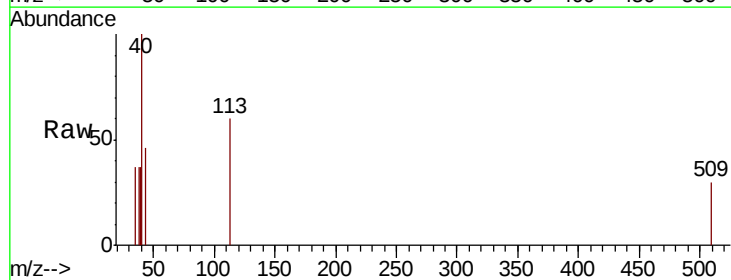
Instrument :
 MSVOA_D
 ClientSampleId :
 168-74-(1)RE

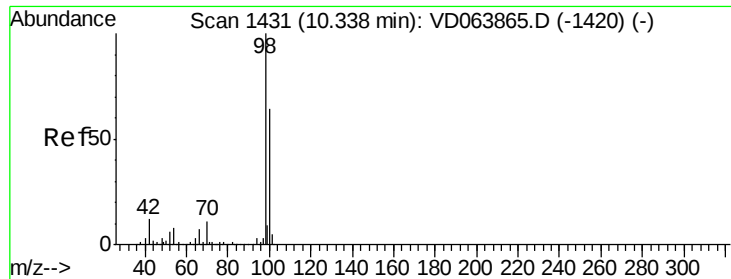
Tot Ion: 114
 Sig Exp Ratio
 114 100
 63 19.2
 88 13.7



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 RT: 8.01 min Scan# 1035
 Delta R.T. 0.09 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

Tgt Ion: 113 Resp: 185
 Ion Ratio Lower Upper
 113 100
 111 30.8 82.6 123.8#
 192 0.0 17.1 25.7#





#50

Toluene-d8

Concen: 0.000 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.01 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

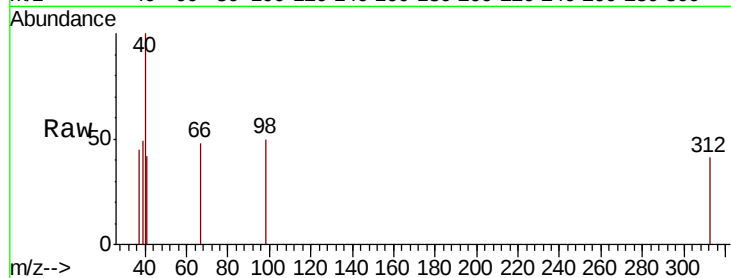
168-74-(1)RE

Tot Ion: 98 Resp: 72

Ion Ratio Lower Upper

98 100

100 88.9 52.1 78.1#

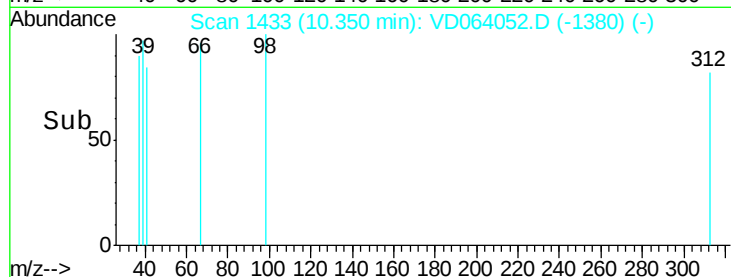


Abundance Ion 98.00 (97.70 to 98.70): VD064052.D

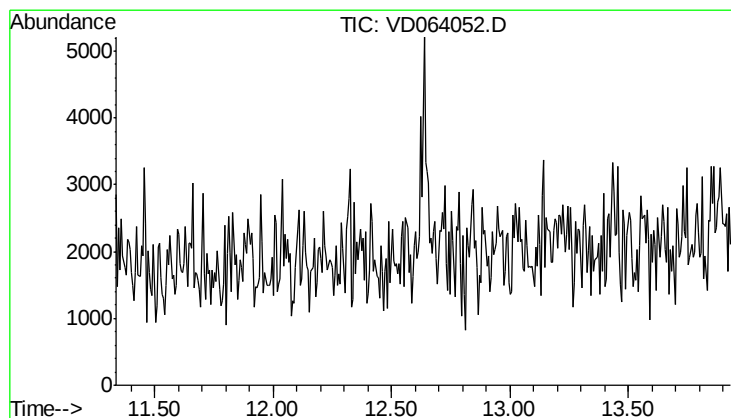
Ion 100.00 (99.70 to 100.70): VD064052.D

10.35

10.36



Time-->



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 12.63 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

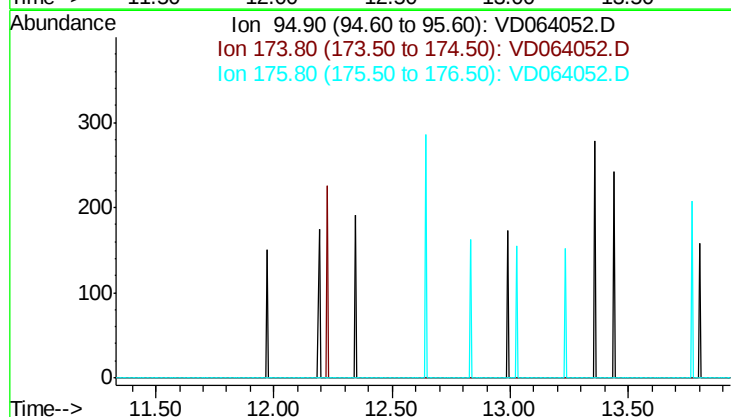
Tgt Ion: 95

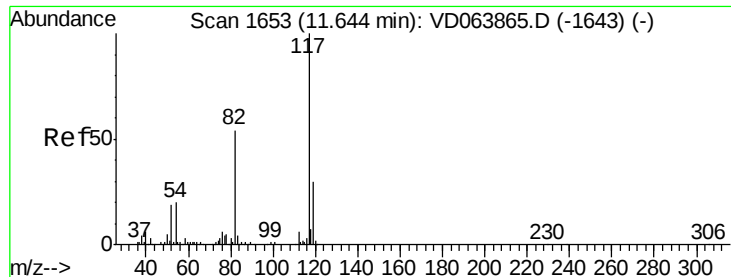
Sig Exp Ratio

95 100

174 93.2

176 92.1

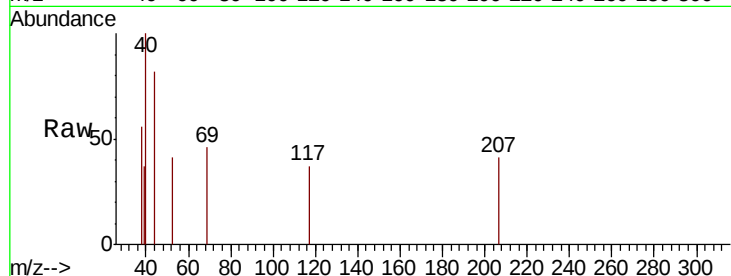




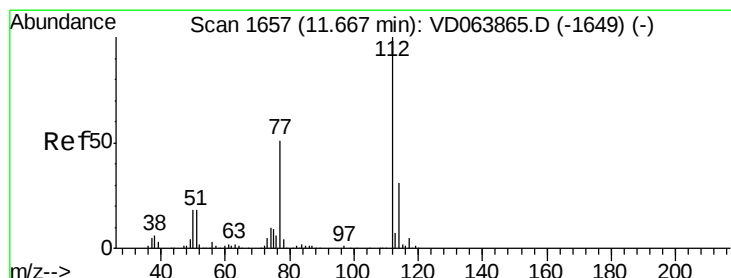
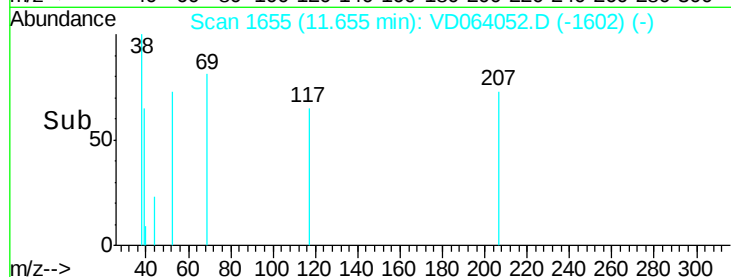
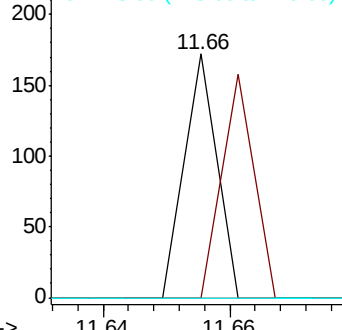
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

Instrument :
MSVOA_D
ClientSampleId :
168-74-(1)RE

Tot Ion:117 Resp: 61
Ion Ratio Lower Upper
117 100
82 0.0 42.8 64.2#
119 0.0 24.4 36.6#

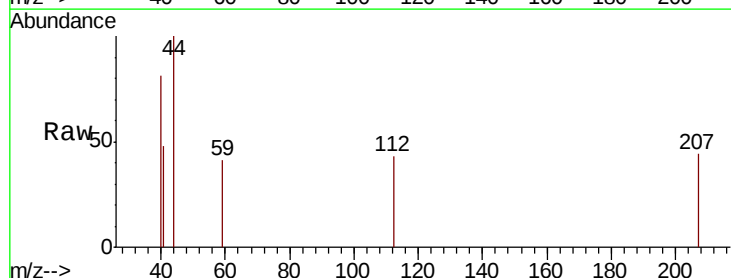


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VD
Ion 118.90 (118.60 to 119.60): V

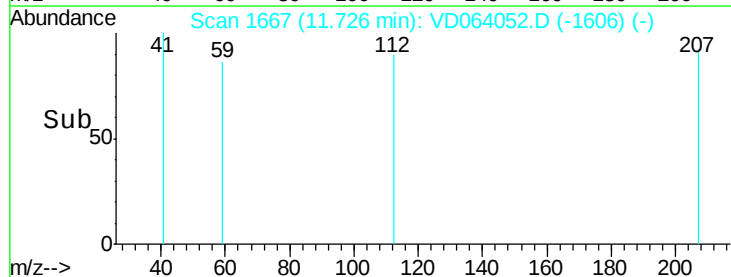
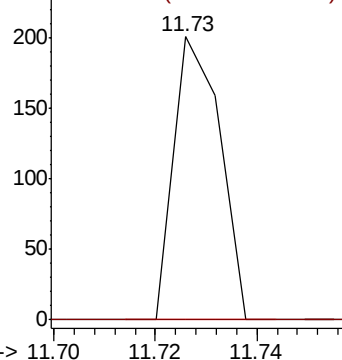


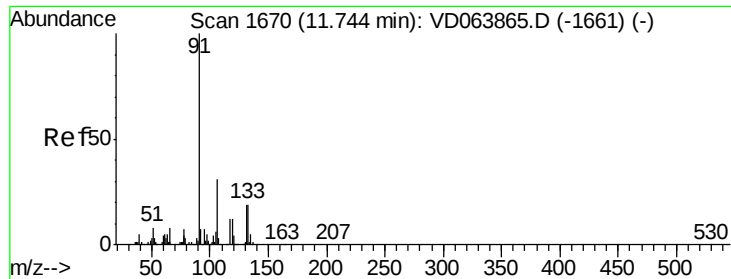
#65
Chlorobenzene
Concen: 103.669 ug/l
RT: 11.73 min Scan# 1667
Delta R.T. 0.06 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

Tgt Ion:112 Resp: 127
Ion Ratio Lower Upper
112 100
114 0.0 25.1 37.7#



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

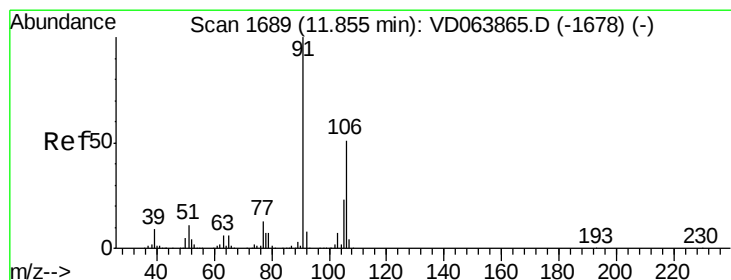
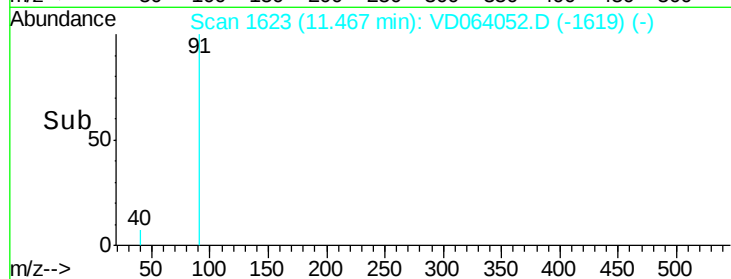
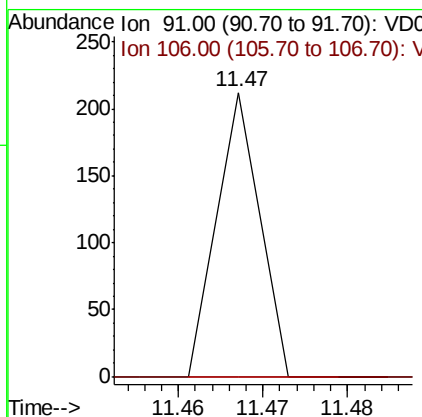
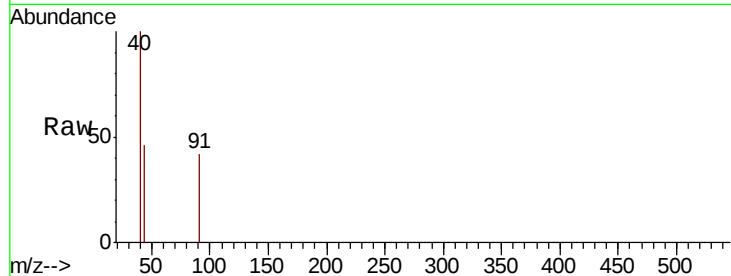




#67
Ethyl Benzene
Concen: 33.952 ug/l
RT: 11.47 min Scan# 1623
Delta R.T. -0.28 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

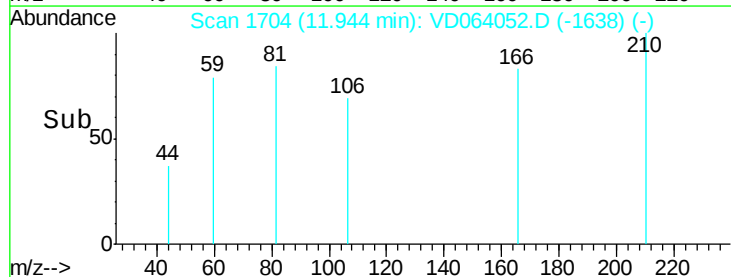
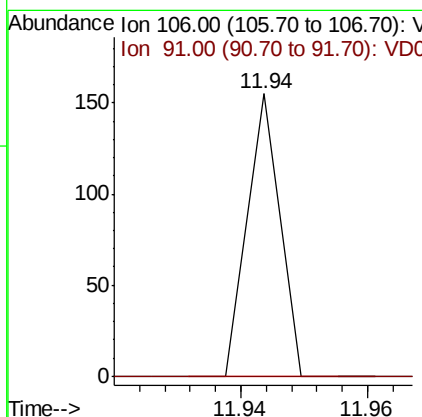
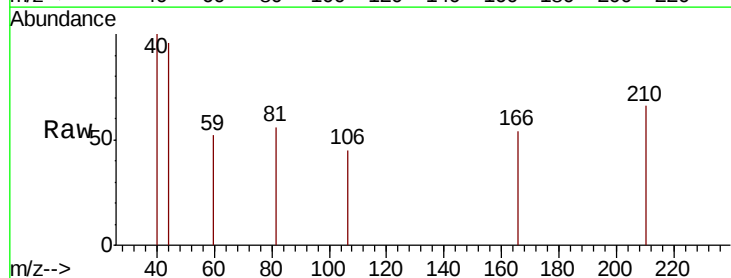
Instrument :
MSVOA_D
ClientSampleId :
168-74-(1)RE

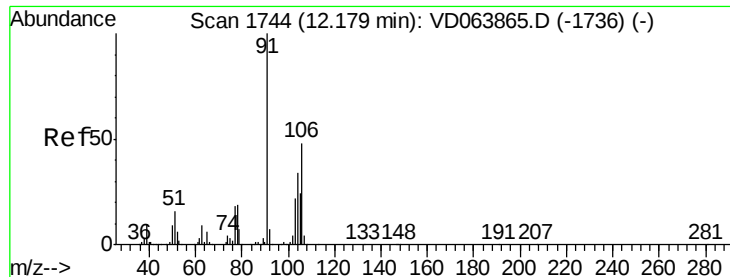
Tot Ion: 91 Resp: 75
Ion Ratio Lower Upper
91 100
106 0.0 24.6 37.0#



#68
m/p-Xylenes
Concen: 64.507 ug/l
RT: 11.94 min Scan# 1704
Delta R.T. 0.09 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

Tgt Ion: 106 Resp: 55
Ion Ratio Lower Upper
106 100
91 0.0 154.8 232.2#

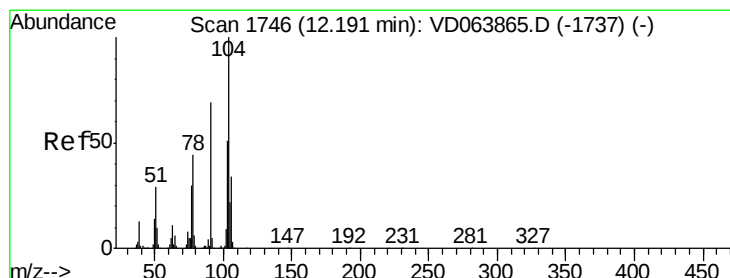
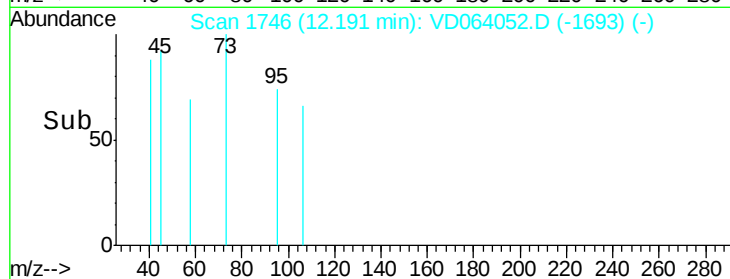
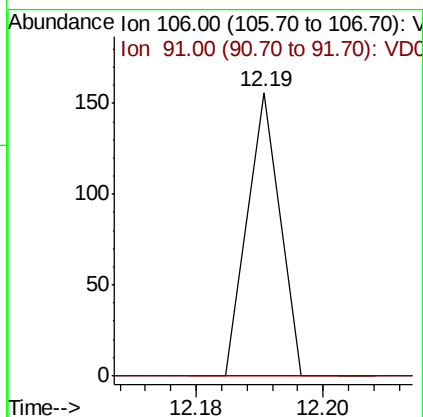
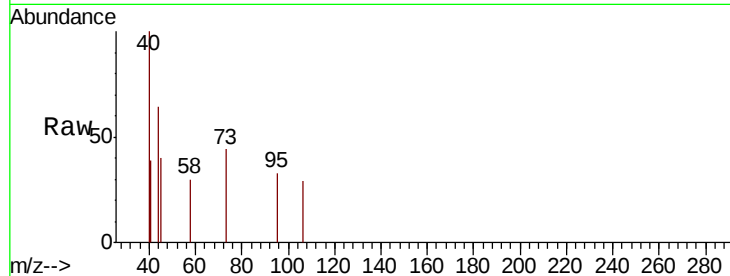




#69
o-Xylene
Concen: 67.367 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

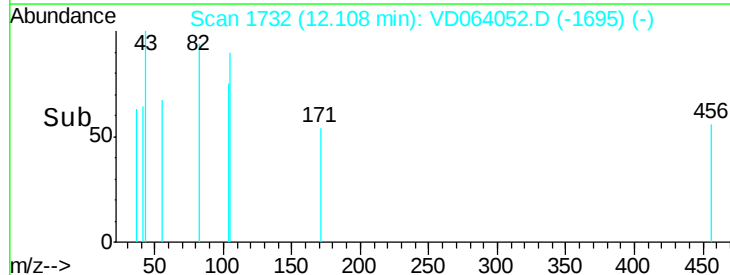
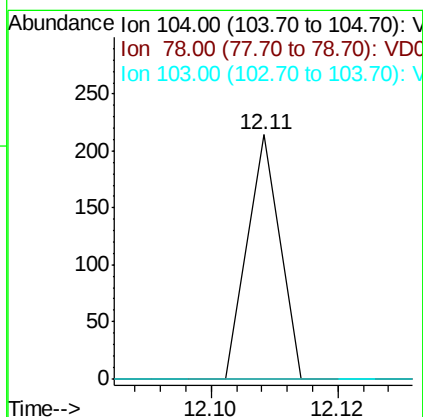
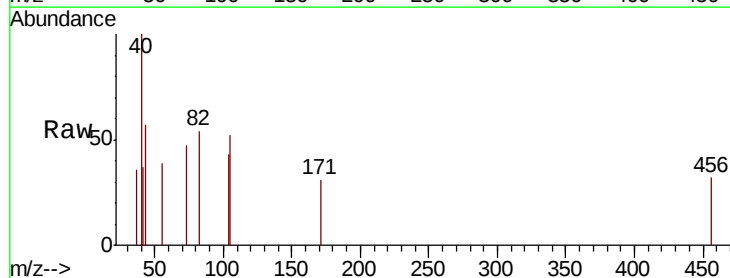
Instrument :
MSVOA_D
ClientSampleId :
168-74-(1)RE

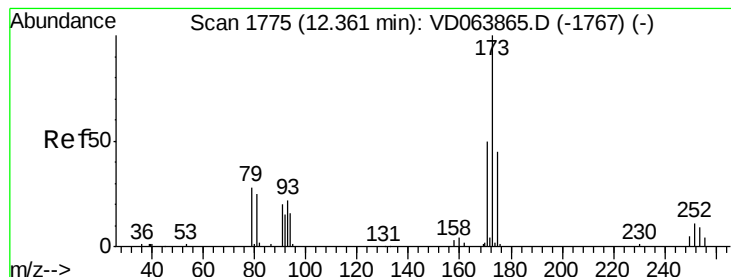
Tot Ion:106 Resp: 55
Ion Ratio Lower Upper
106 100
91 0.0 103.9 311.7#



#70
Styrene
Concen: 54.989 ug/l
RT: 12.11 min Scan# 1732
Delta R.T. -0.08 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

Tgt Ion:104 Resp: 76
Ion Ratio Lower Upper
104 100
78 0.0 37.0 55.4#
103 0.0 44.2 66.4#





#71

Bromoform

Concen: 268.314 ug/l

RT: 12.58 min Scan# 1812

Delta R.T. 0.22 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

168-74-(1)RE

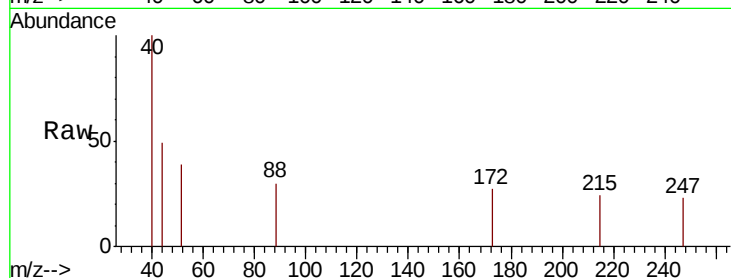
Tot Ion:173 Resp: 65

Ion Ratio Lower Upper

173 100

175 0.0 24.6 74.0#

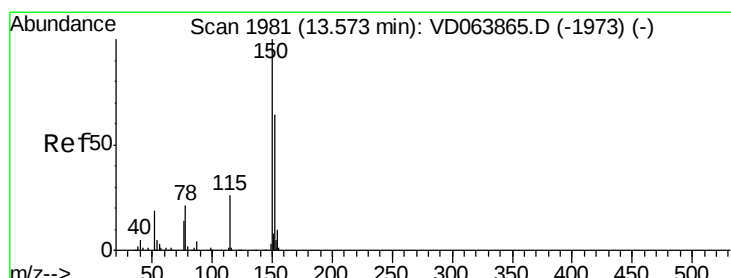
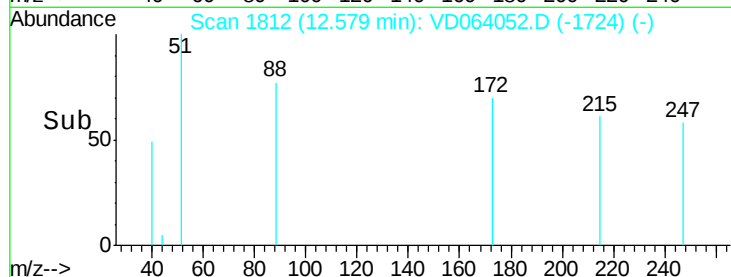
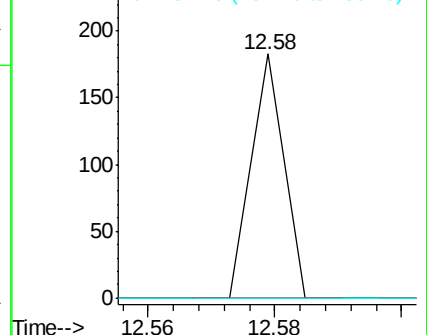
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VD064052.D

Acq: 24 Oct 2019 18:14

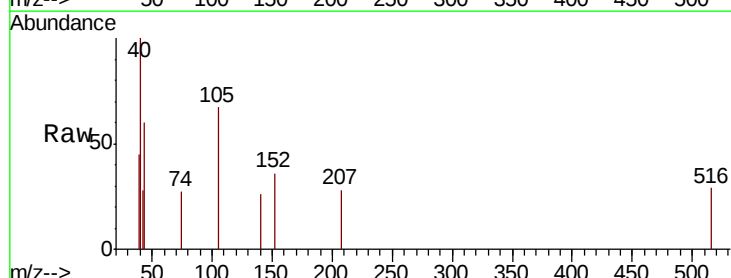
Tgt Ion:152 Resp: 74

Ion Ratio Lower Upper

152 100

115 0.0 25.9 77.7#

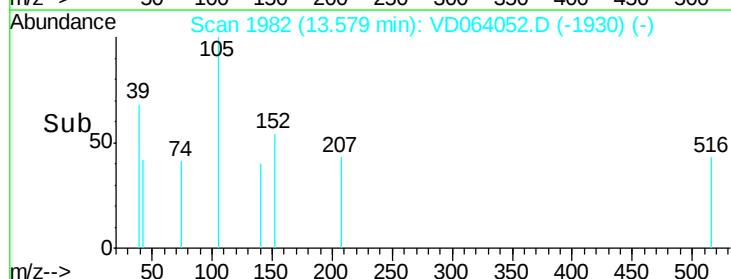
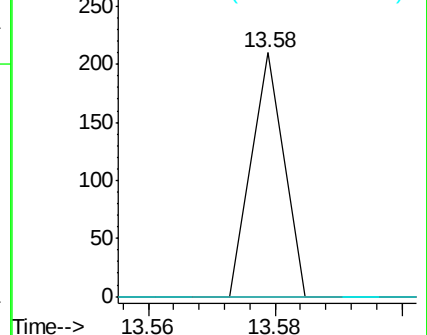
150 0.0 0.0 344.2

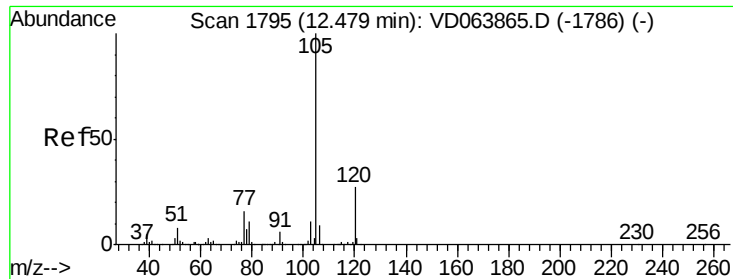


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 11.458 ug/l

RT: 12.26 min Scan# 1758

Delta R.T. -0.22 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

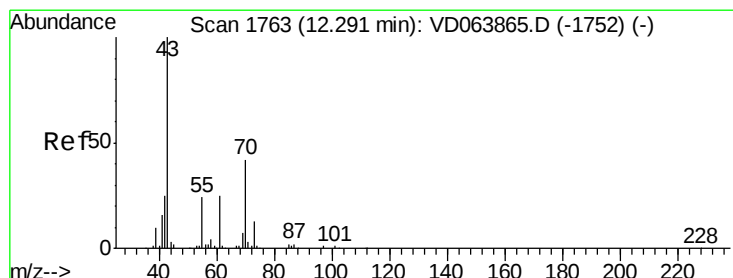
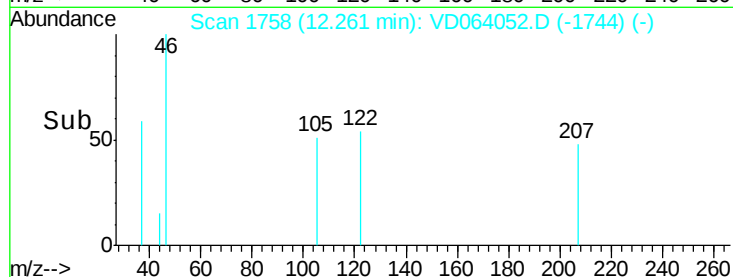
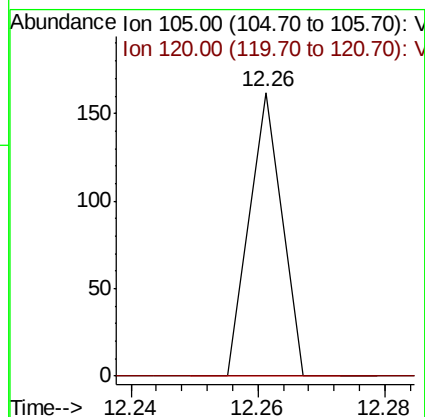
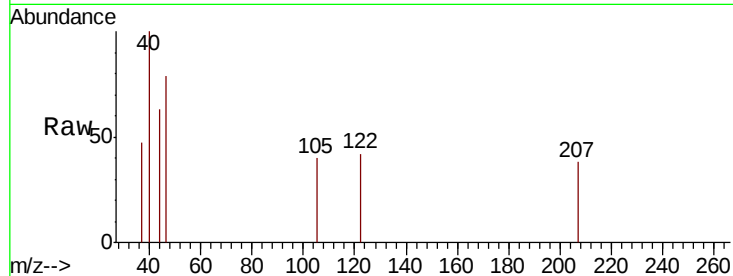
168-74-(1)RE

Tot Ion:105 Resp: 57

Ion Ratio Lower Upper

105 100

120 0.0 13.3 39.8#



#74

N-ethyl acetate

Concen: 57.887 ug/l

RT: 12.26 min Scan# 1757

Delta R.T. -0.04 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Tgt Ion: 43 Resp: 62

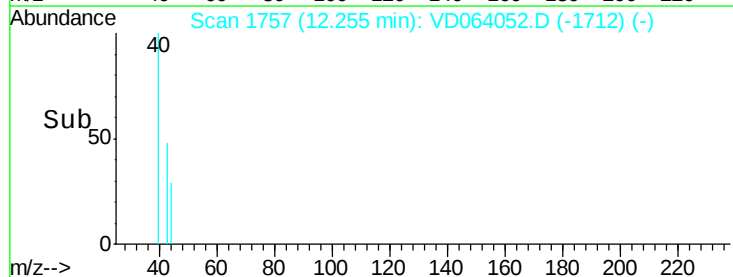
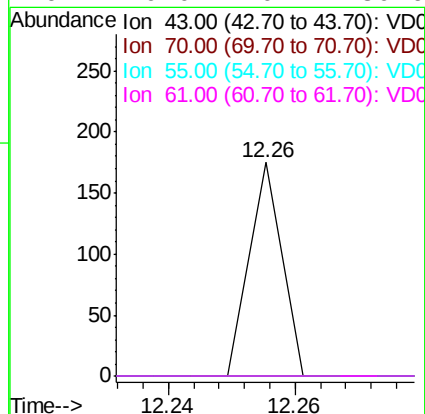
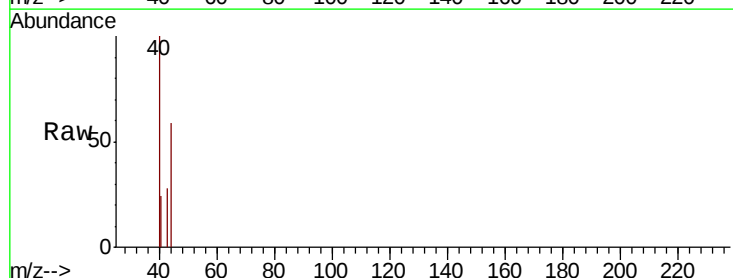
Ion Ratio Lower Upper

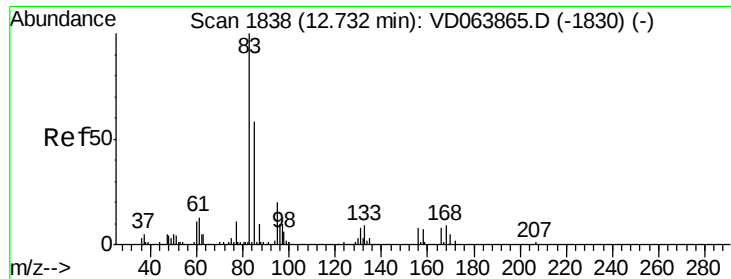
43 100

70 0.0 35.8 53.6#

55 0.0 19.4 29.0#

61 0.0 20.4 30.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 69.312 ug/l

RT: 12.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

168-74-(1)RE

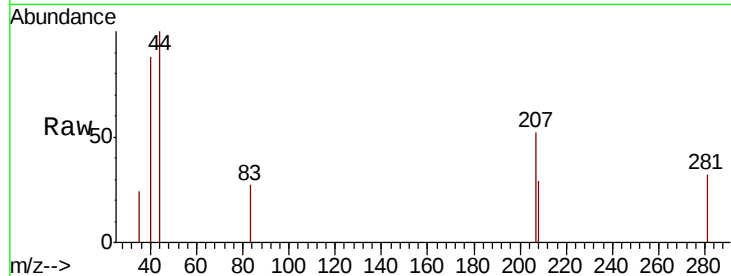
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

131 0.0 5.6 16.8#

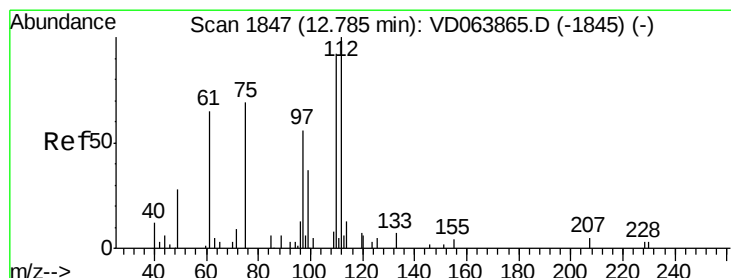
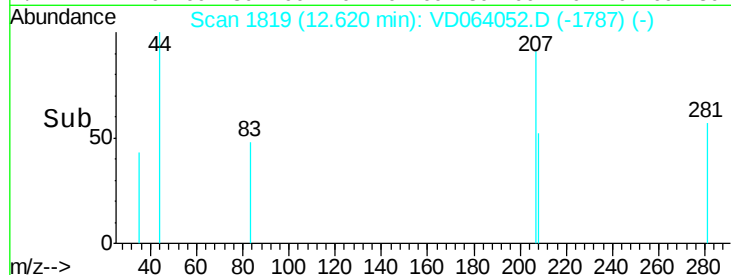
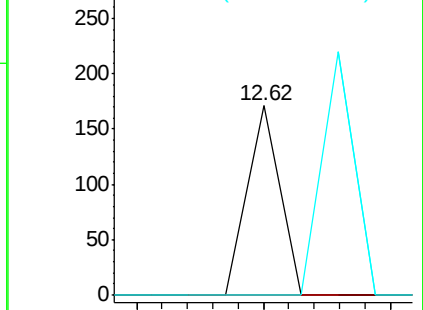
85 130.0 32.3 96.8#



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: 112.987 ug/l

RT: 12.84 min Scan# 1857

Delta R.T. 0.06 min

Lab File: VD064052.D

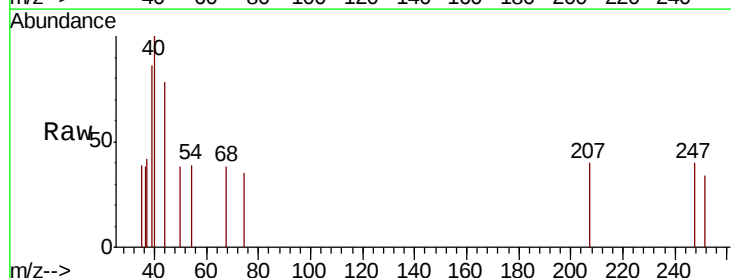
Acq: 24 Oct 2019 18:14

Tgt Ion: 75 Resp: 56

Ion Ratio Lower Upper

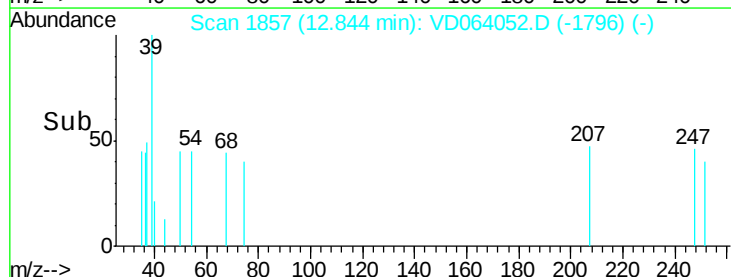
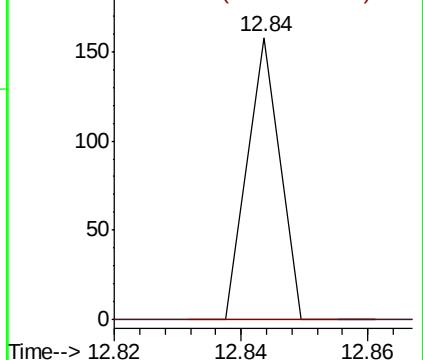
75 100

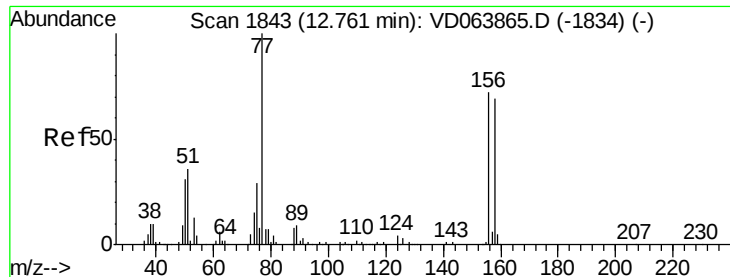
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 65.354 ug/l

RT: 12.50 min Scan# 1799

Delta R.T. -0.26 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

168-74-(1)RE

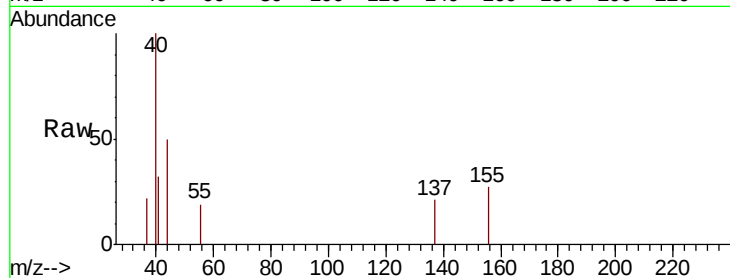
Tot Ion:156 Resp: 81

Ion Ratio Lower Upper

156 100

77 0.0 80.3 241.0#

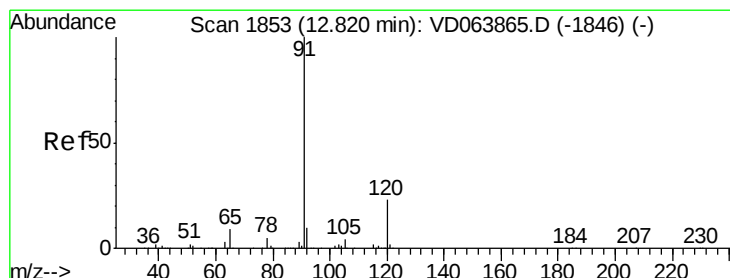
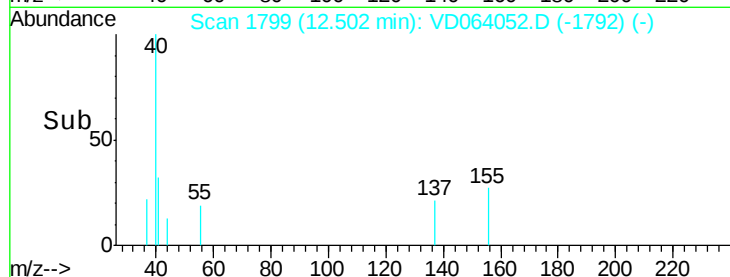
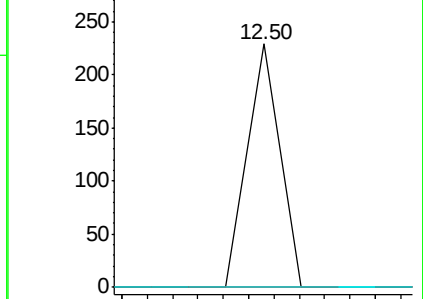
158 0.0 47.4 142.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.750 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VD064052.D

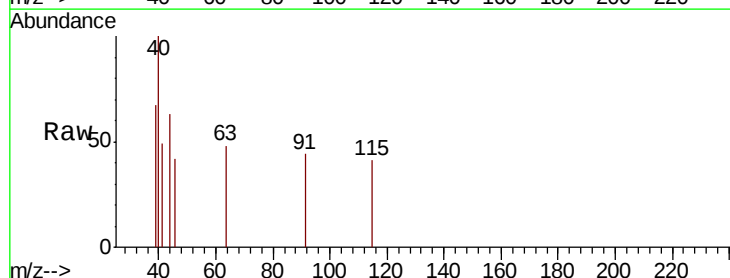
Acq: 24 Oct 2019 18:14

Tgt Ion: 91 Resp: 127

Ion Ratio Lower Upper

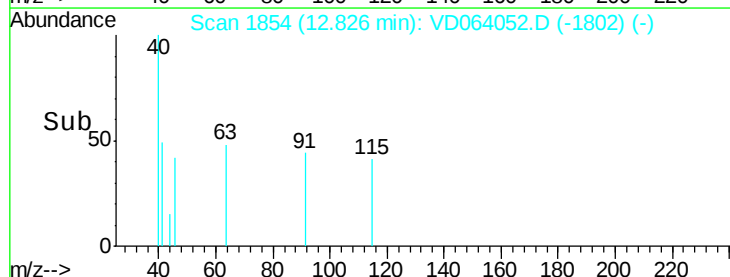
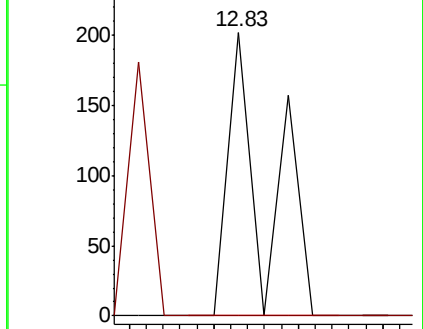
91 100

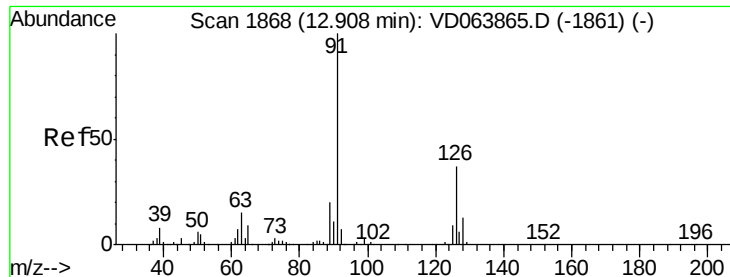
120 0.0 12.0 36.0#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

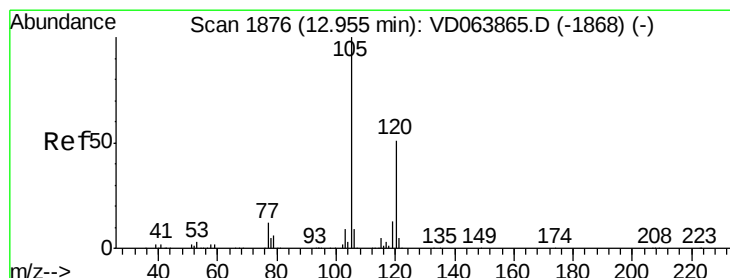
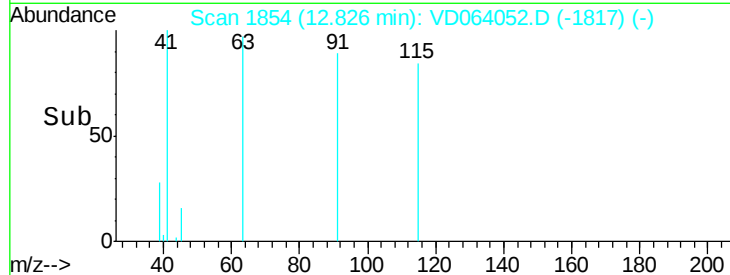
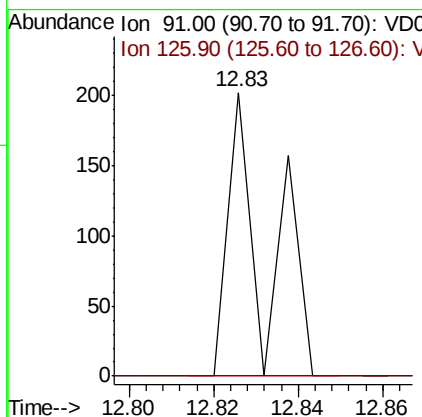
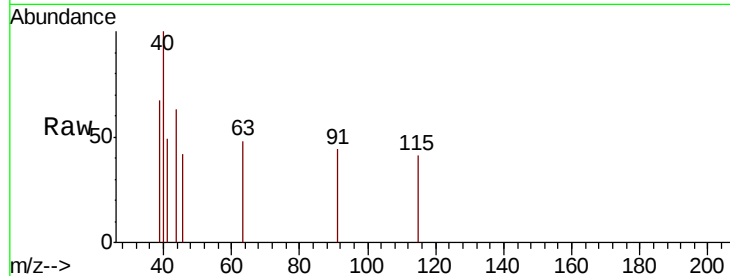




#79
 2-Chlorotoluene
 Concen: 39.445 ug/l
 RT: 12.83 min Scan# 1854
 Delta R.T. -0.08 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

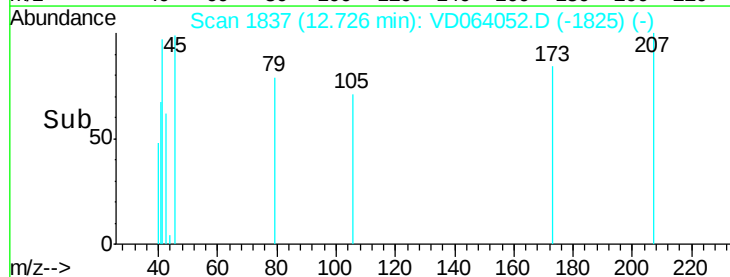
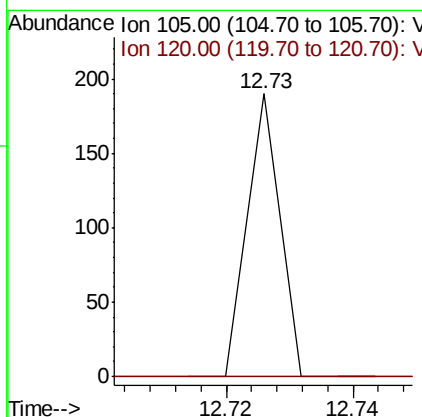
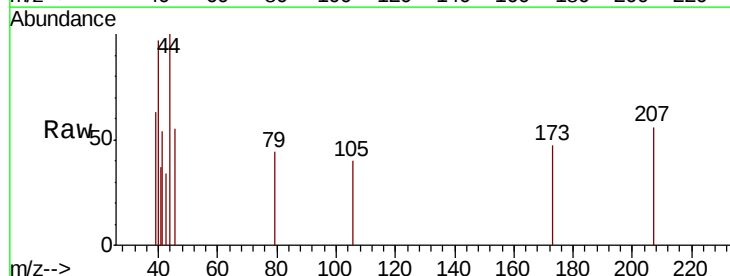
Instrument :
 MSVOA_D
 ClientSampleId :
 168-74-(1)RE

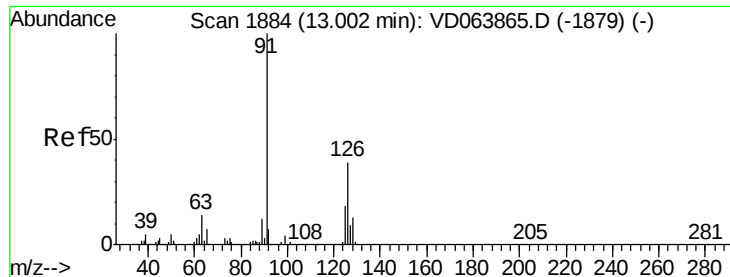
Tot Ion: 91 Resp: 127
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.4 55.2#



#80
 1,3,5-Trimethylbenzene
 Concen: 16.144 ug/l
 RT: 12.73 min Scan# 1837
 Delta R.T. -0.23 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

Tgt Ion: 105 Resp: 67
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.9 77.8#





#82

4-Chlorotoluene

Concen: 17.274 ug/l

RT: 13.16 min Scan# 1910

Delta R.T. 0.15 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

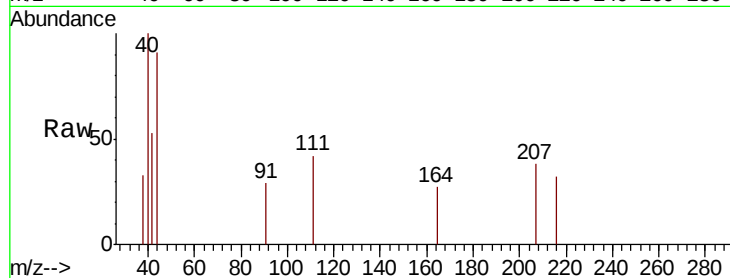
168-74-(1)RE

Tot Ion: 91 Resp: 59

Ion Ratio Lower Upper

91 100

126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): VDC

13.16

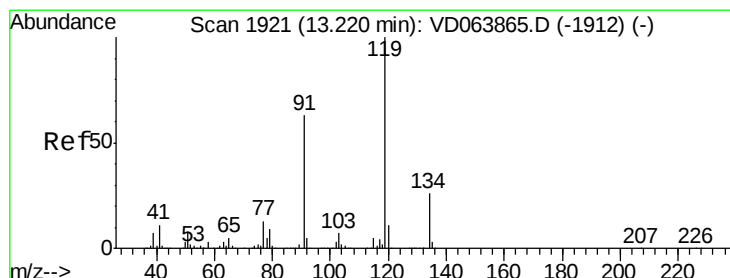
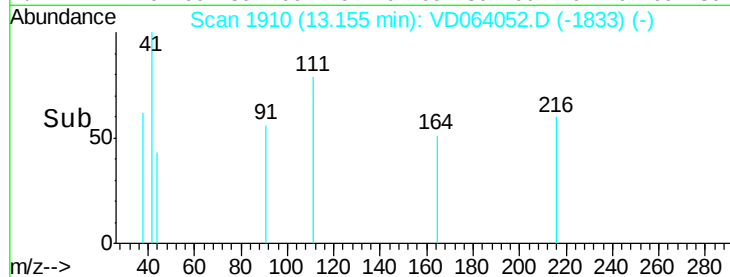
150

100

50

0

Time-->



#83

tert-Butylbenzene

Concen: 18.410 ug/l

RT: 13.20 min Scan# 1918

Delta R.T. -0.02 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

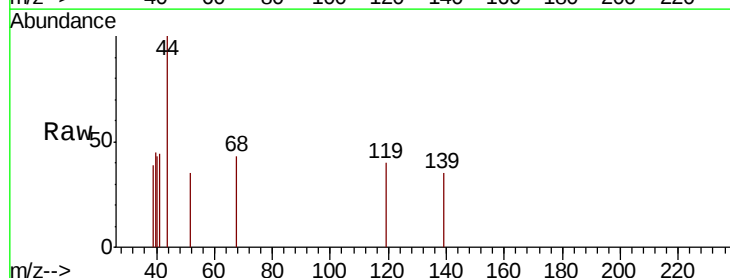
Tgt Ion: 119 Resp: 68

Ion Ratio Lower Upper

119 100

91 0.0 30.0 90.0#

134 0.0 13.0 38.9#



Abundance Ion 119.00 (118.70 to 119.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

Ion 134.00 (133.70 to 134.70): VDC

250

200

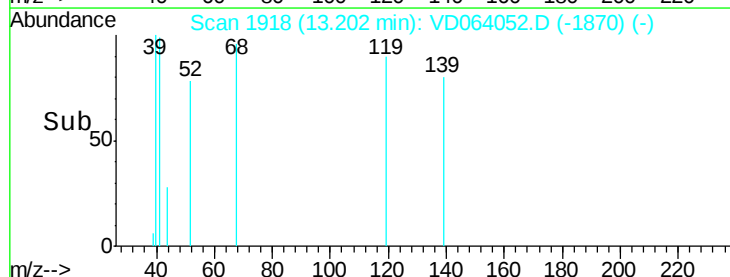
150

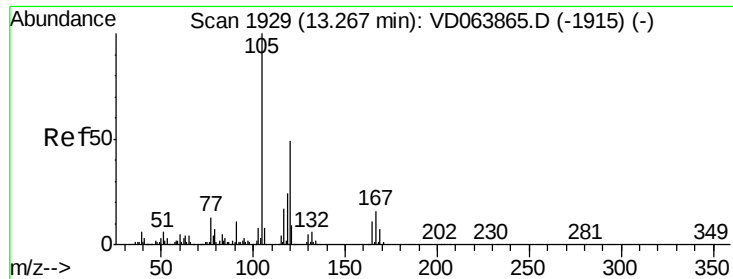
100

50

0

Time-->

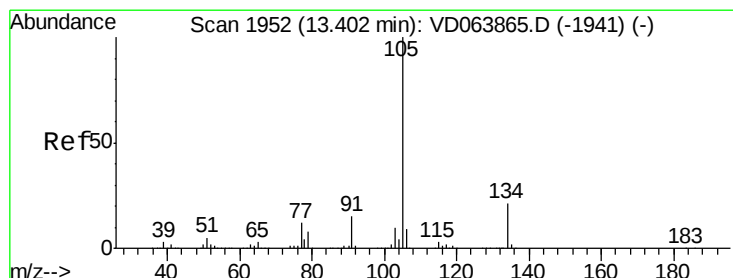
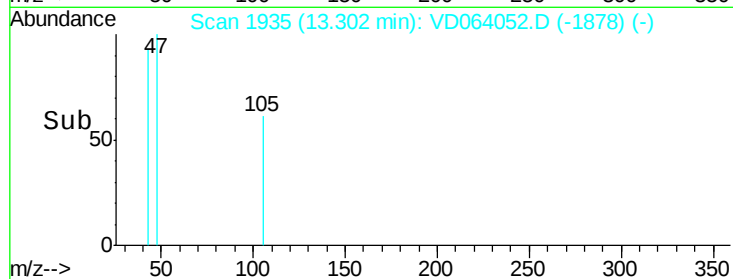
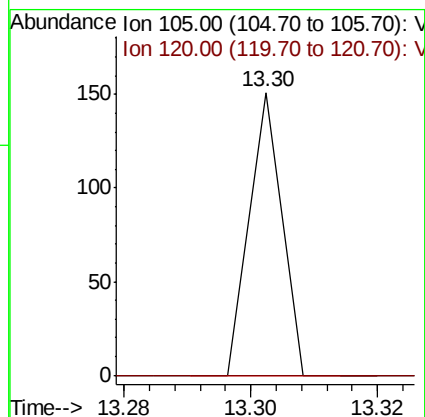
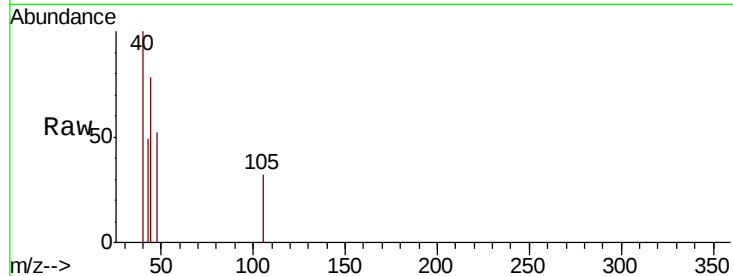




#84
 1,2,4-Trimethylbenzene
 Concen: 12.387 ug/l
 RT: 13.30 min Scan# 1935
 Delta R.T. 0.04 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

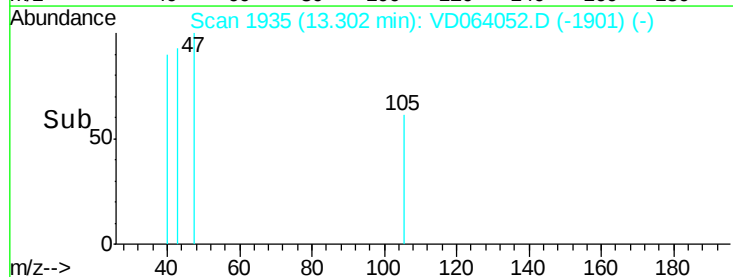
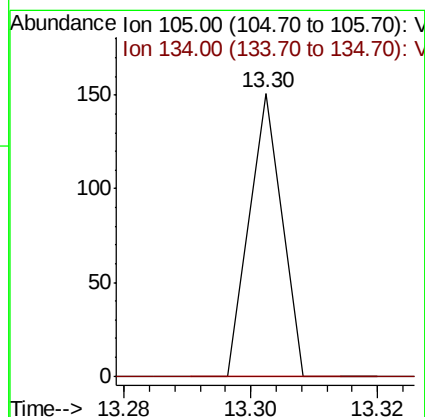
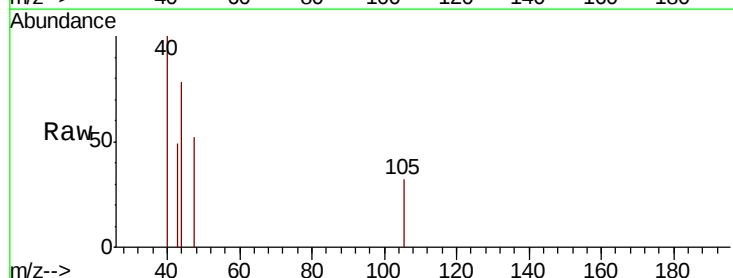
Instrument :
 MSVOA_D
 ClientSampleId :
 168-74-(1)RE

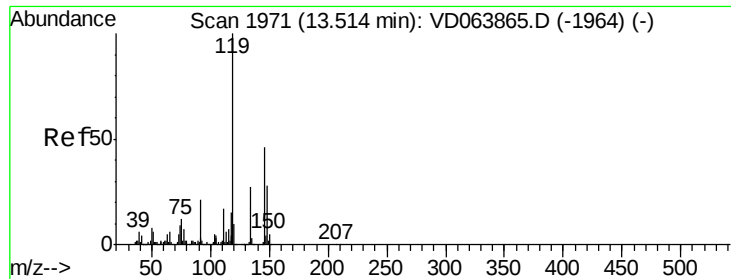
Tot Ion:105 Resp: 53
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.8 71.5#



#85
 sec-Butylbenzene
 Concen: 10.625 ug/l
 RT: 13.30 min Scan# 1935
 Delta R.T. -0.10 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

Tgt Ion:105 Resp: 53
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.6 31.8#

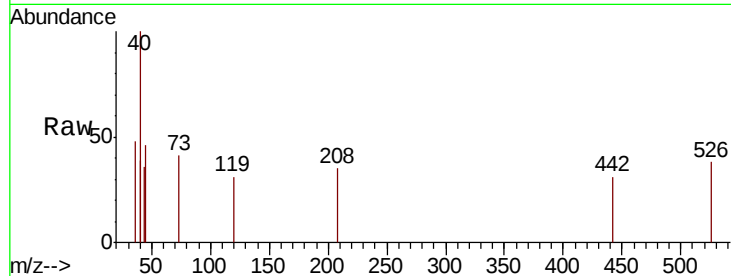




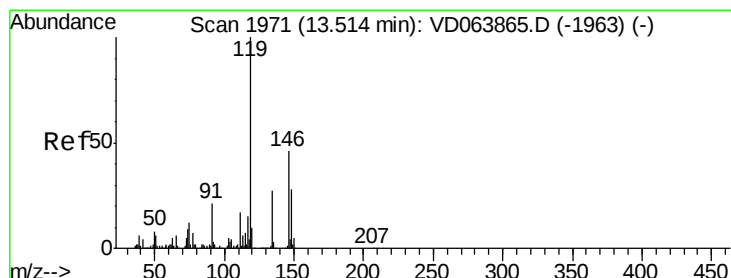
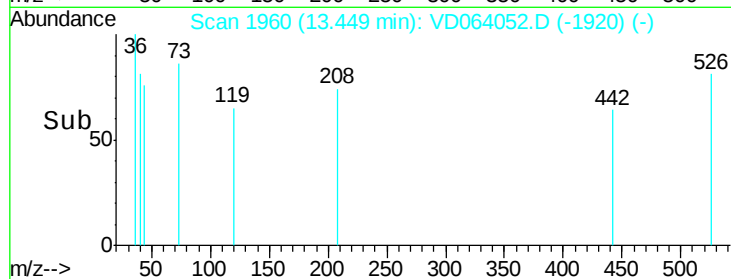
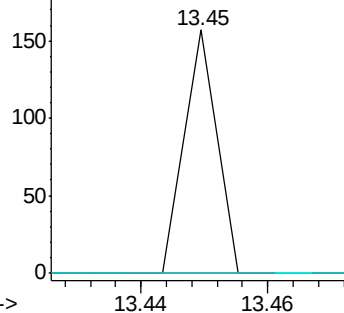
#86
 p-Isopropyltoluene
 Concen: 11.652 ug/l
 RT: 13.45 min Scan# 1960
 Delta R.T. -0.06 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

Instrument :
 MSVOA_D
 ClientSampleId :
 168-74-(1)RE

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.9	41.6#
91	0.0	11.2	33.5#

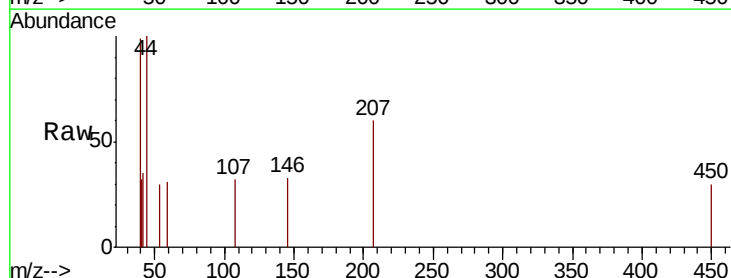


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

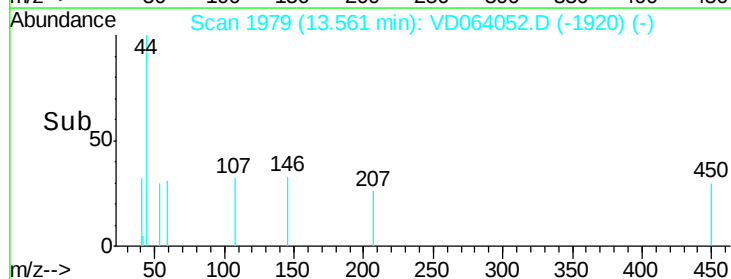
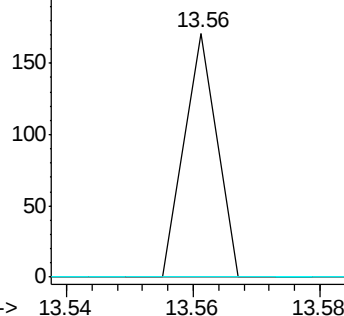


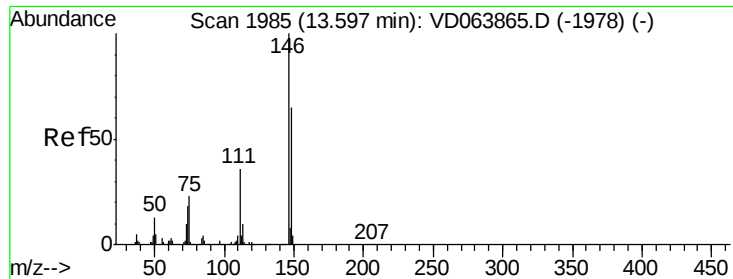
#87
 1,3-Dichlorobenzene
 Concen: 24.501 ug/l
 RT: 13.56 min Scan# 1979
 Delta R.T. 0.05 min
 Lab File: VD064052.D
 Acq: 24 Oct 2019 18:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.3	54.9#
148	0.0	31.8	95.4#



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 24.835 ug/l

RT: 13.56 min Scan# 1979

Delta R.T. -0.04 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

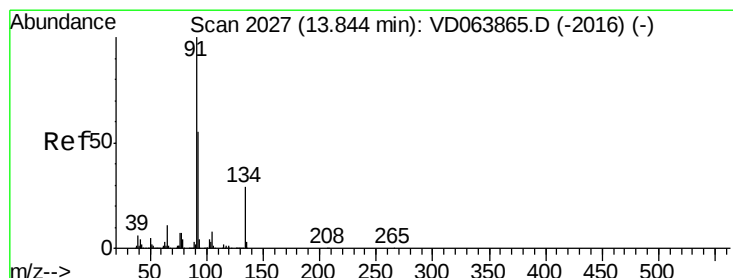
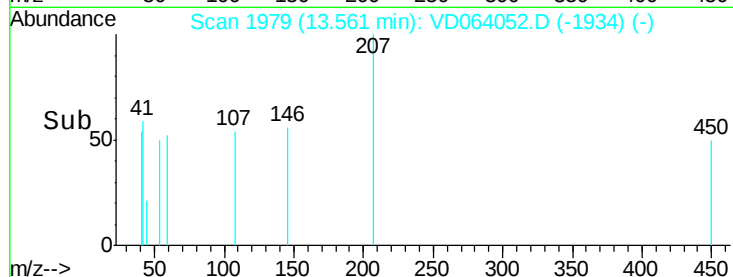
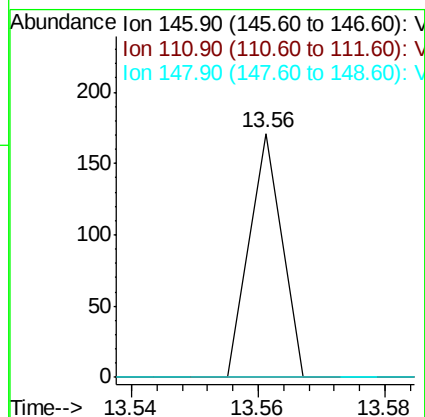
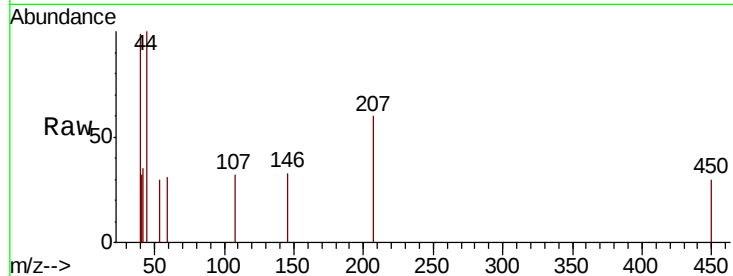
Instrument :

MSVOA_D

ClientSampleId :

168-74-(1)RE

Tot Ion:	146	Resp:	60
Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.6	56.0#
148	0.0	32.6	98.0#



#89

n-Butylbenzene

Concen: 16.843 ug/l

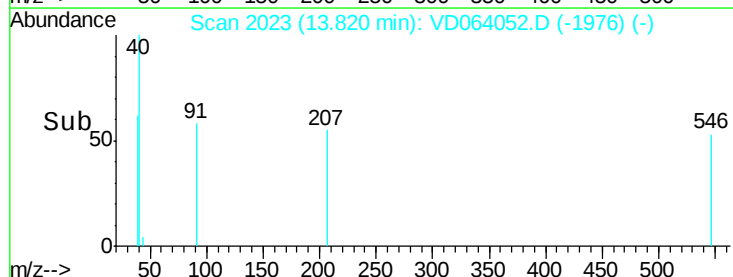
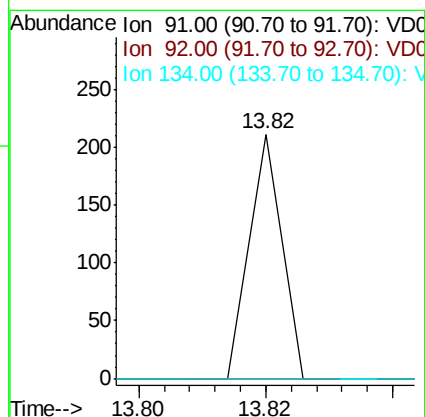
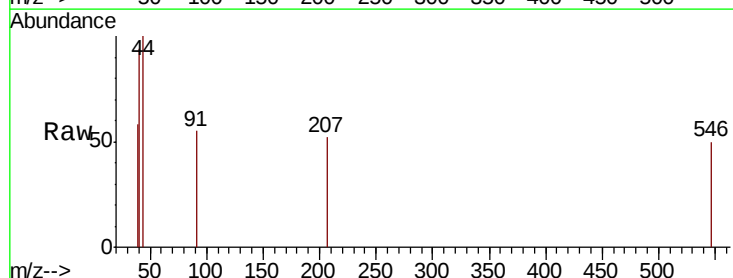
RT: 13.82 min Scan# 2023

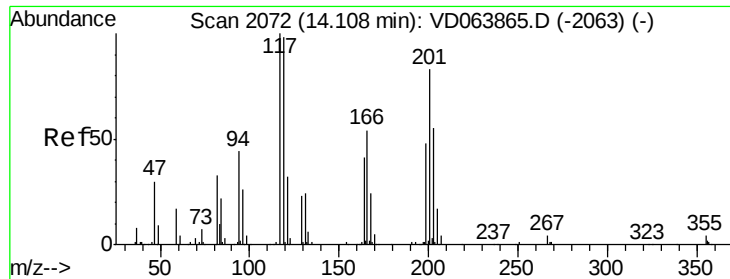
Delta R.T. -0.02 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Tgt Ion:	91	Resp:	74
Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.8	80.3#
134	0.0	14.4	43.0#

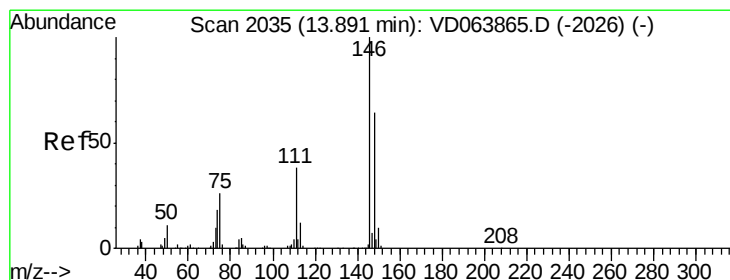
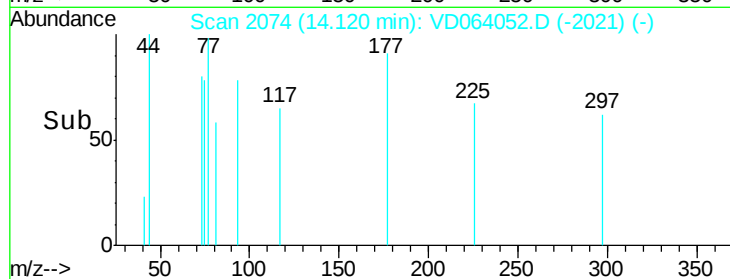
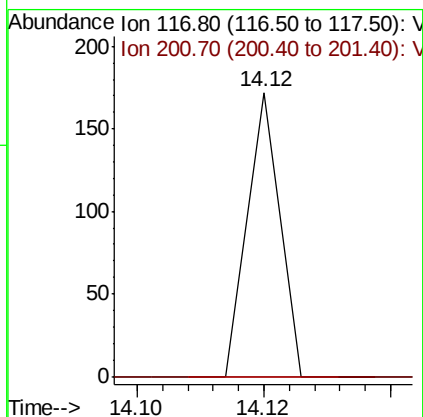
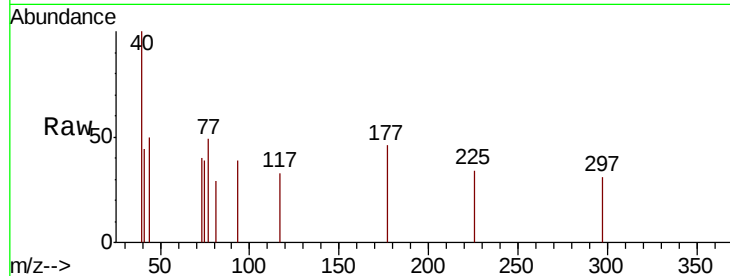




#90
Hexachloroethane
Concen: 71.855 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.01 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

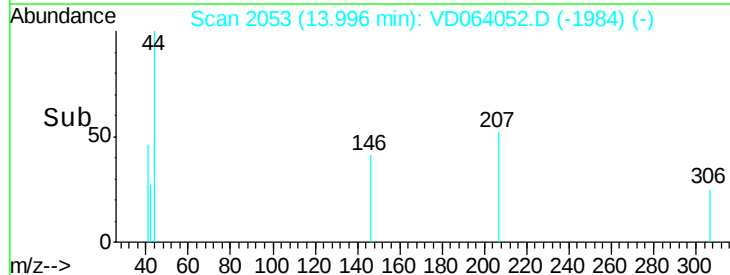
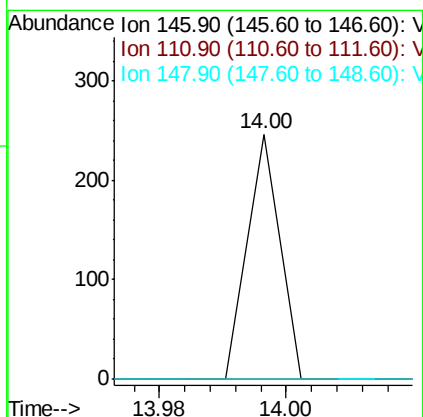
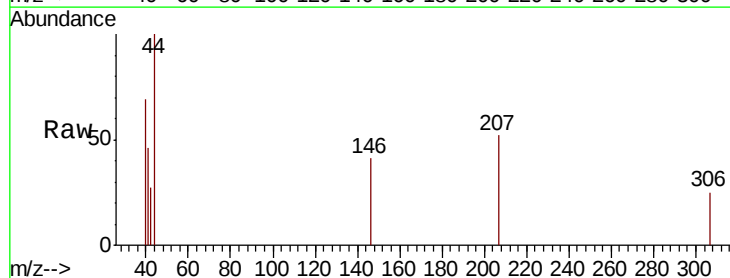
Instrument :
MSVOA_D
ClientSampleId :
168-74-(1)RE

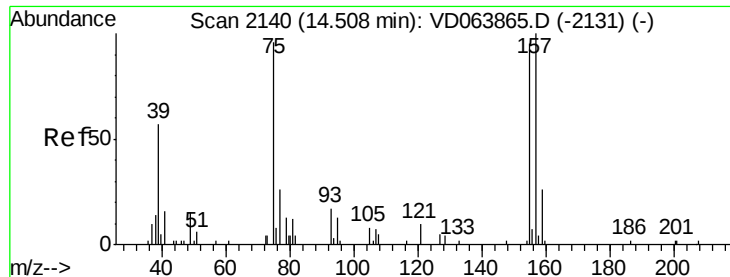
Tot Ion:117 Resp: 61
Ion Ratio Lower Upper
117 100
201 0.0 40.6 121.7#



#91
1,2-Dichlorobenzene
Concen: 41.224 ug/l
RT: 14.00 min Scan# 2053
Delta R.T. 0.11 min
Lab File: VD064052.D
Acq: 24 Oct 2019 18:14

Tgt Ion:146 Resp: 87
Ion Ratio Lower Upper
146 100
111 0.0 18.6 55.6#
148 0.0 31.6 95.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 513.495 ug/l

RT: 14.48 min Scan# 2135

Delta R.T. -0.03 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

168-74-(1)RE

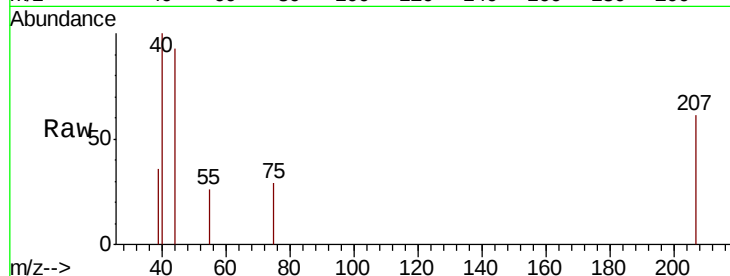
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

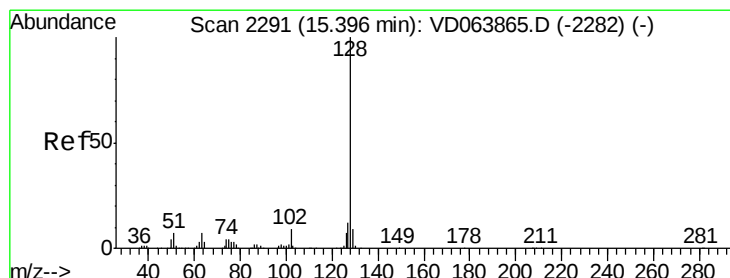
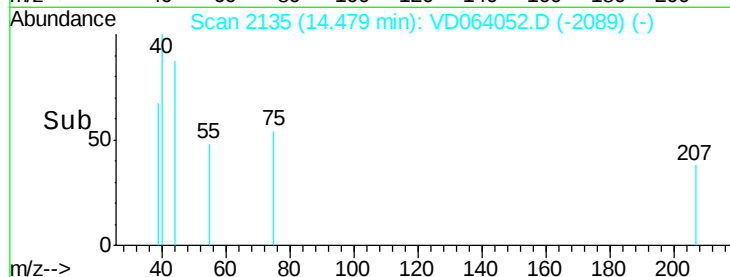
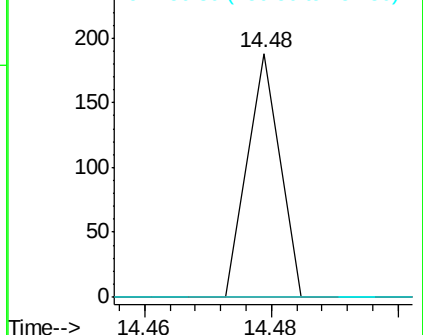
157 0.0 56.0 167.9#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 26.672 ug/l

RT: 15.37 min Scan# 2287

Delta R.T. -0.02 min

Lab File: VD064052.D

Acq: 24 Oct 2019 18:14

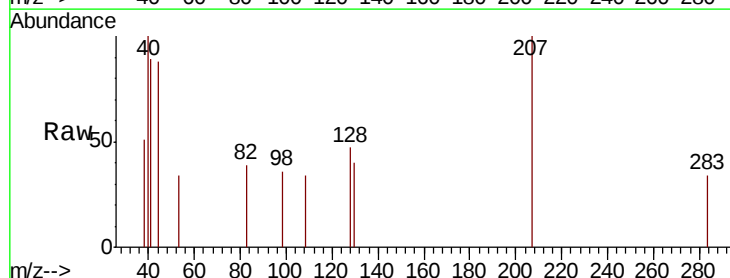
Tgt Ion: 128 Resp: 73

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 75.3 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

