

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062320\
 Data File : VD065865.D
 Acq On : 23 Jun 2020 17:31
 Operator : VA/SY
 Sample : L3082-18
 Misc : 5.83G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-19

Quant Time: Jun 24 04:44:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060520S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 05 13:07:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	6375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	15176	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	18349	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	6915	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	26595	422.19	ug/l	0.00
Spiked Amount			Recovery	=	844.38%	
35) Dibromofluoromethane	7.91	113	12648	131.94	ug/l	0.00
Spiked Amount			Recovery	=	263.88%	
50) Toluene-d8	10.34	98	17094	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
62) 4-Bromofluorobenzene	12.64	95	7968	65.73	ug/l	0.00
Spiked Amount			Recovery	=	131.46%	

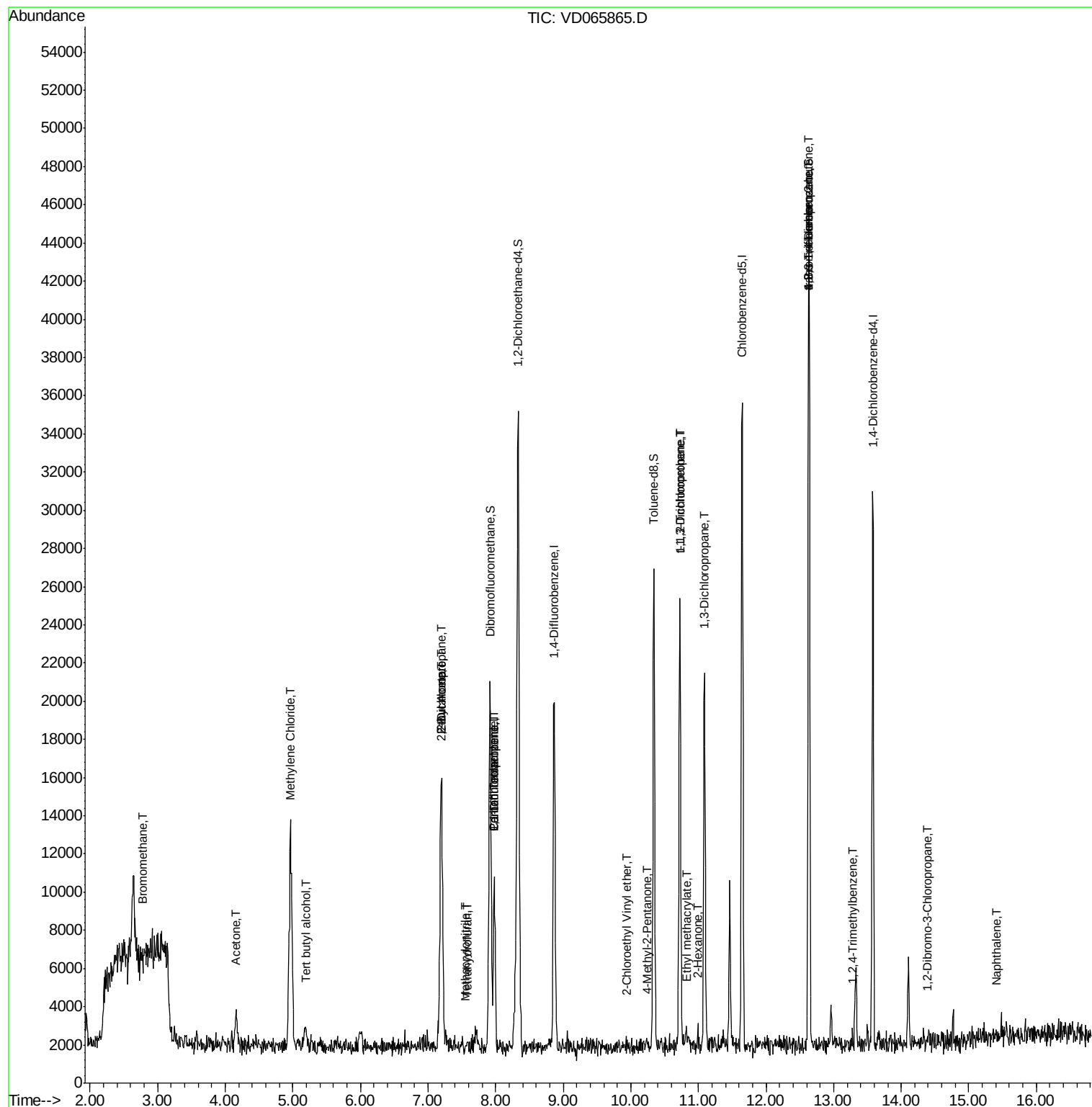
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	129	Below Cal	#	43
5) Bromomethane	2.78	94	226	3.436	ug/l #	5
11) Tert butyl alcohol	5.19	59	439	103.476	ug/l #	74
16) Acetone	4.16	43	2995	252.049	ug/l #	84
18) Methyl Acetate	4.77	43	57	Below Cal	#	52
20) Methylene Chloride	4.96	84	8201	137.768	ug/l #	84
25) 2-Butanone	7.20	43	651	39.670	ug/l #	52
26) 2,2-Dichloropropane	7.19	77	1021	9.772	ug/l #	54
29) Tetrahydrofuran	7.57	42	61	5.881	ug/l #	34
36) 1,1-Dichloropropene	7.98	75	500	3.439	ug/l #	41
37) Ethyl Acetate	7.20	43	651	11.369	ug/l #	1
38) Carbon Tetrachloride	7.98	117	696	4.549	ug/l #	12
41) Methacrylonitrile	7.55	41	71	2.082	ug/l #	28
51) 4-Methyl-2-Pentanone	10.23	43	288	5.162	ug/l #	37
53) t-1,3-Dichloropropene	10.72	75	297	2.260	ug/l #	42
55) 1,1,2-Trichloroethane	10.73	97	218	3.012	ug/l #	15
56) Ethyl methacrylate	10.82	69	325	3.818	ug/l #	21
57) 1,3-Dichloropropane	11.09	76	142	1.133	ug/l #	42
58) 2-Chloroethyl Vinyl ether	9.94	63	83	2.097	ug/l #	46
59) 2-Hexanone	10.99	43	62	1.648	ug/l #	26
76) 1,2,3-Trichloropropane	12.63	75	4929	91.653	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	4929	198.028	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.27	105	438	1.134	ug/l	70
92) 1,2-Dibromo-3-Chloropropan	14.39	75	87	6.676	ug/l #	1
95) Naphthalene	15.40	128	303	1.413	ug/l #	69

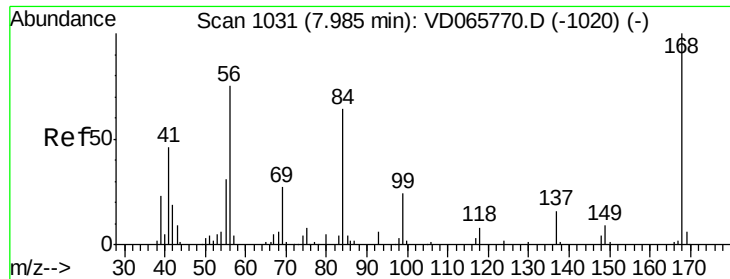
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 05 13:07:30 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

Instrument :

MSVOA_D

ClientSampleId :

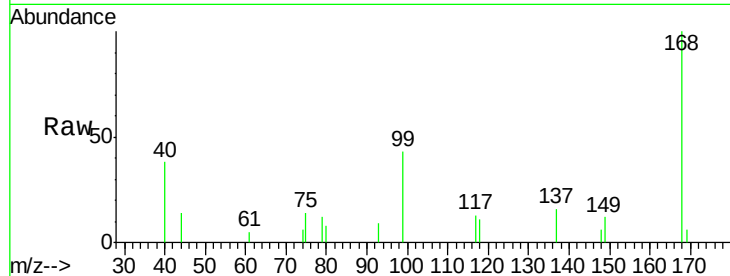
SB-19

Tot Ion:168 Resp: 6375

Ion Ratio Lower Upper

168 100

99 42.8 45.3 67.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

4000

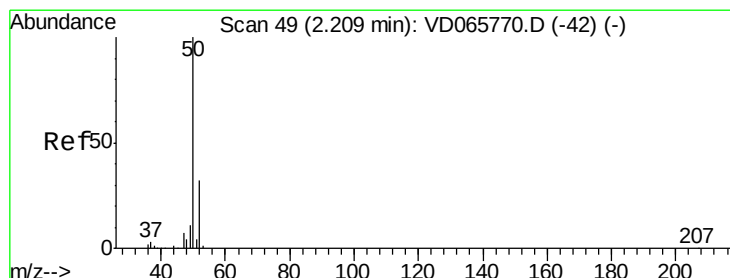
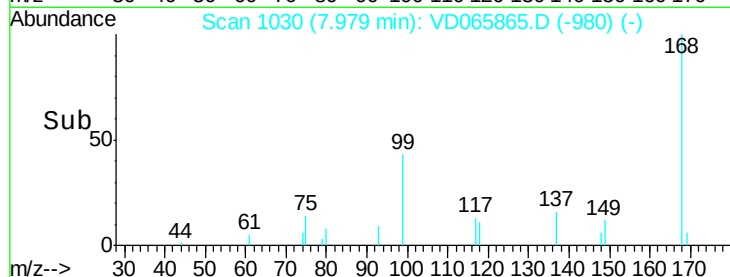
3000

2000

1000

0

Time--> 7.90 7.95 8.00 8.05



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065865.D

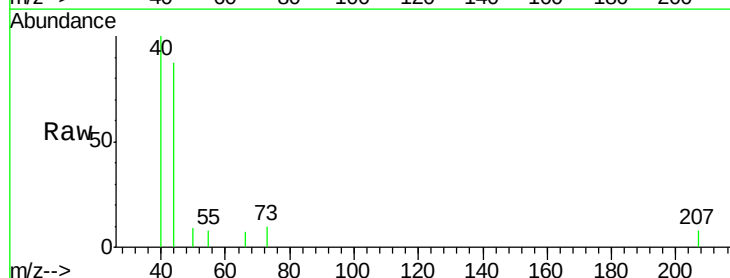
Acq: 23 Jun 2020 17:31

Tgt Ion: 50 Resp: 129

Ion Ratio Lower Upper

50 100

52 0.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

200

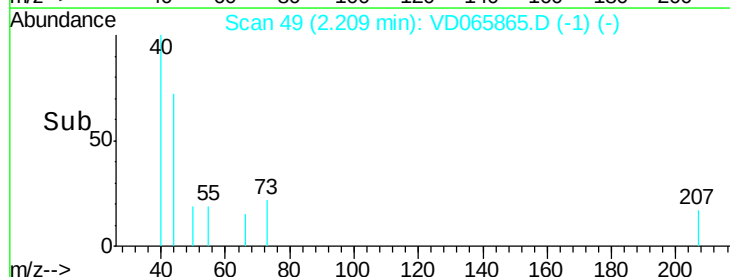
150

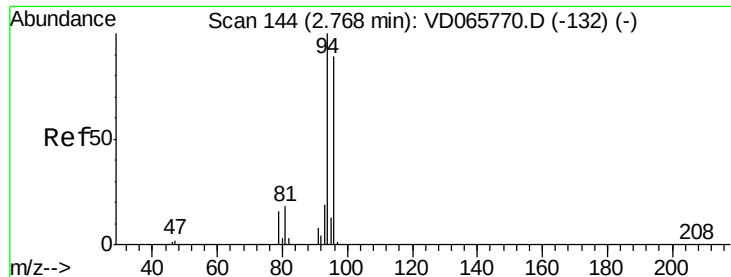
100

50

0

Time--> 2.18 2.20 2.22 2.24





#5

Bromomethane

Concen: 3.436 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

Instrument :

MSVOA_D

ClientSampleId :

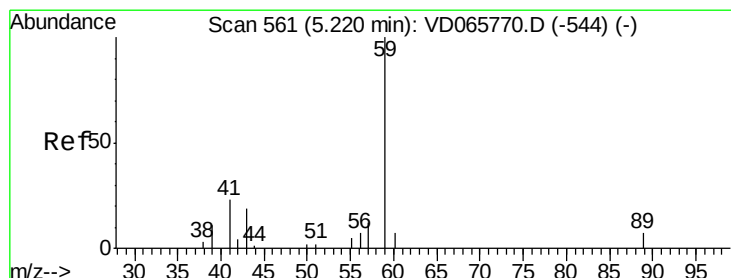
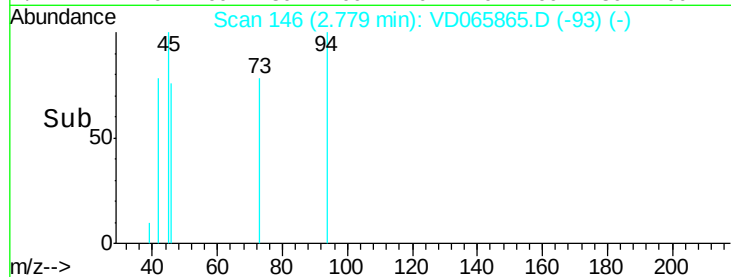
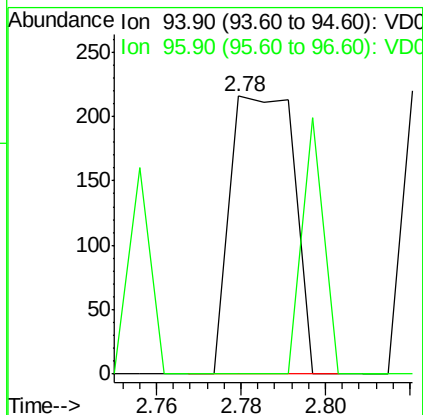
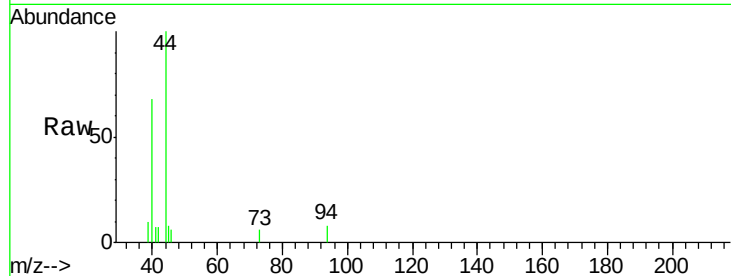
SB-19

Tot Ion: 94 Resp: 226

Ion Ratio Lower Upper

94 100

96 0.0 71.4 107.0#



#11

Tert butyl alcohol

Concen: 103.476 ug/l

RT: 5.19 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD065865.D

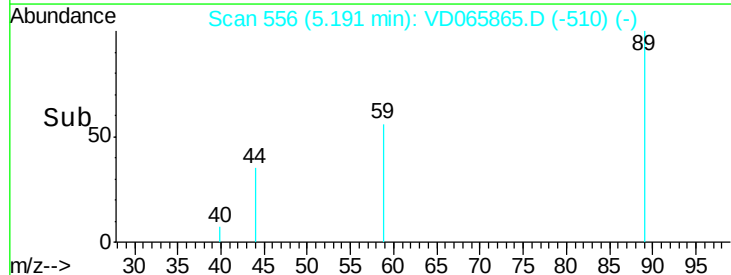
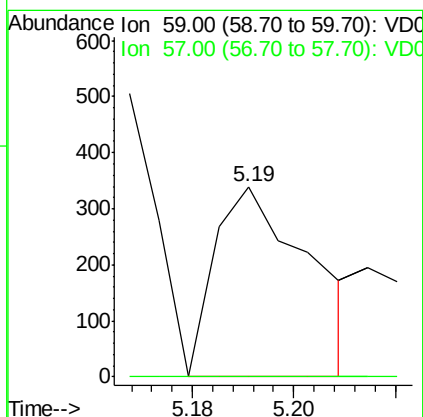
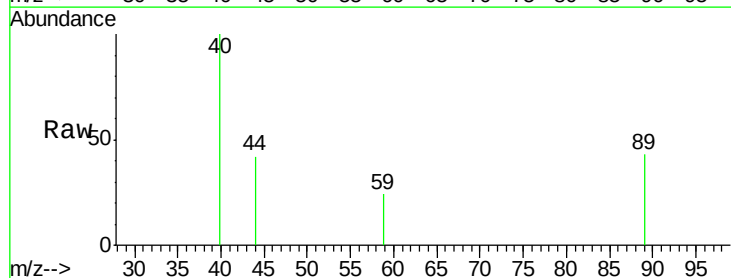
Acq: 23 Jun 2020 17:31

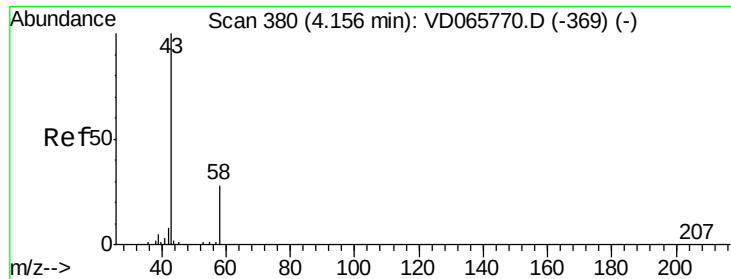
Tgt Ion: 59 Resp: 439

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#





#16

Acetone

Concen: 252.049 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

Instrument :

MSVOA_D

ClientSampled :

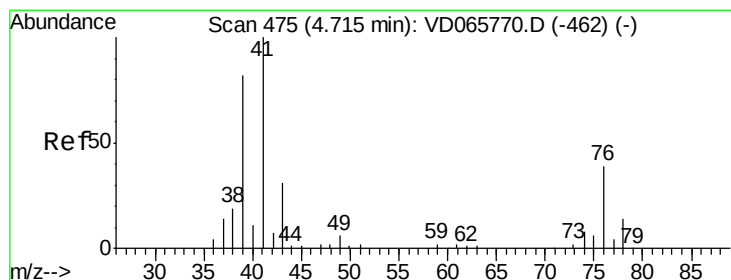
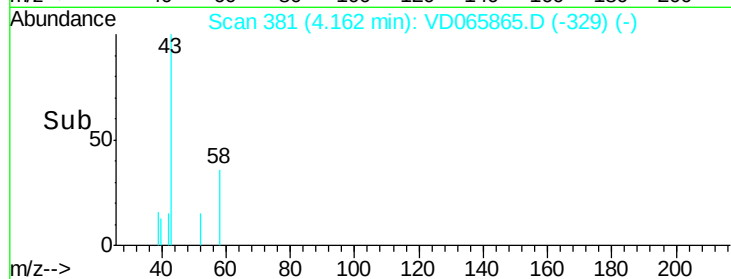
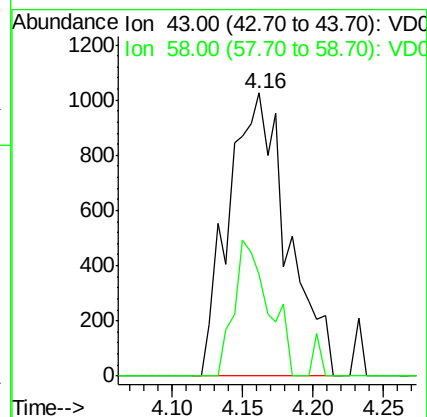
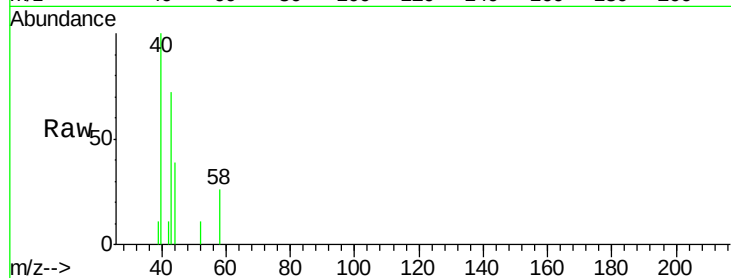
SB-19

Tot Ion: 43 Resp: 2995

Ion Ratio Lower Upper

43 100

58 36.1 22.3 33.5#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.77 min Scan# 485

Delta R.T. 0.06 min

Lab File: VD065865.D

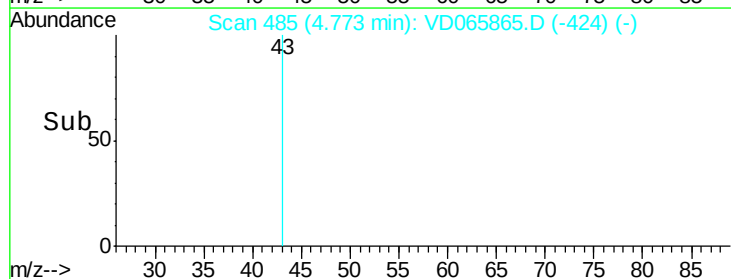
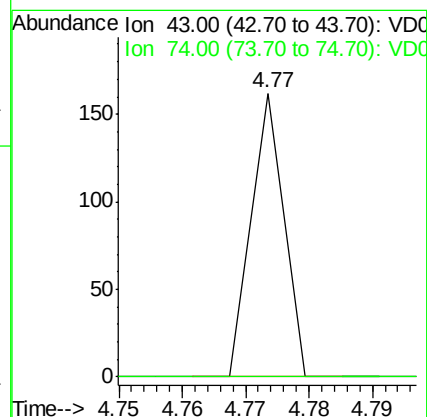
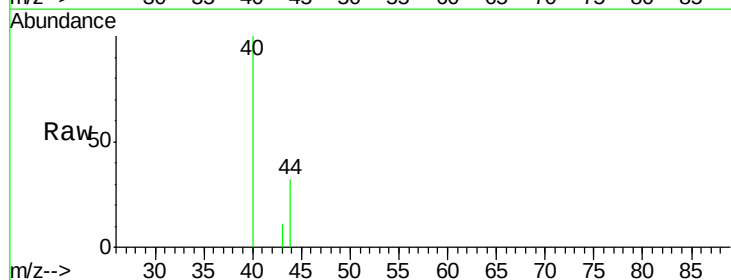
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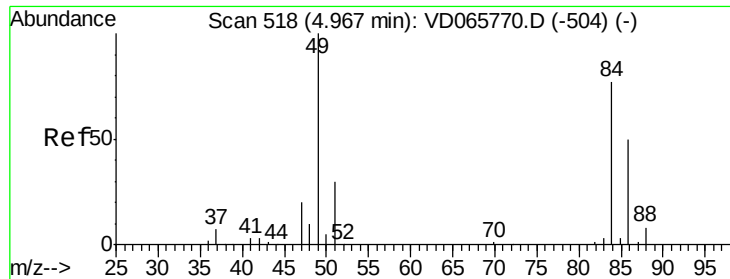
Tgt Ion: 43 Resp: 57

Ion Ratio Lower Upper

43 100

74 0.0 18.7 28.1#

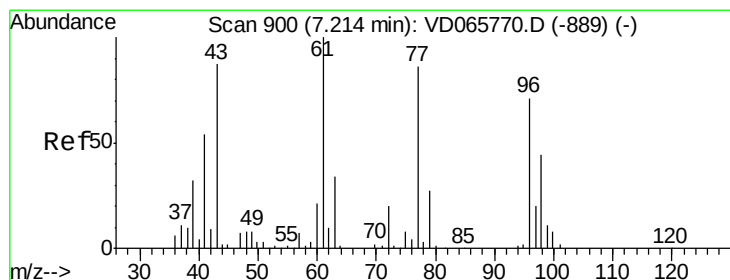
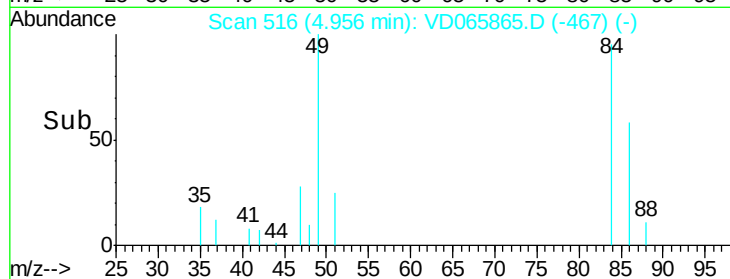
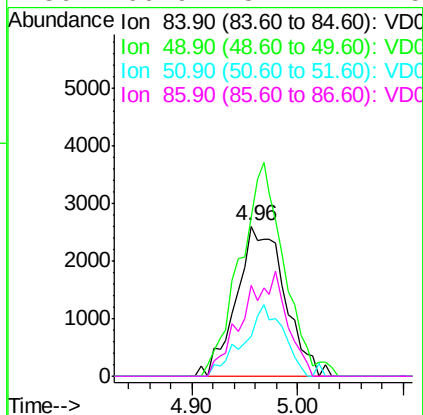
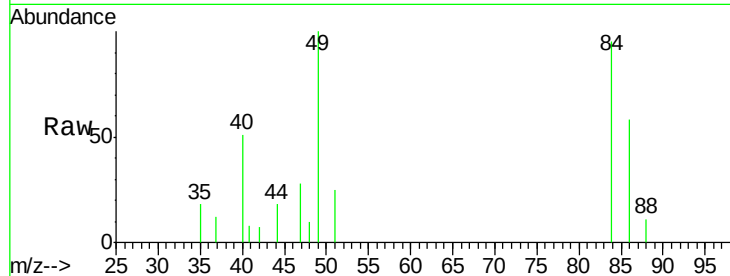




#20
Methvlene Chloride
Concen: 137.768 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

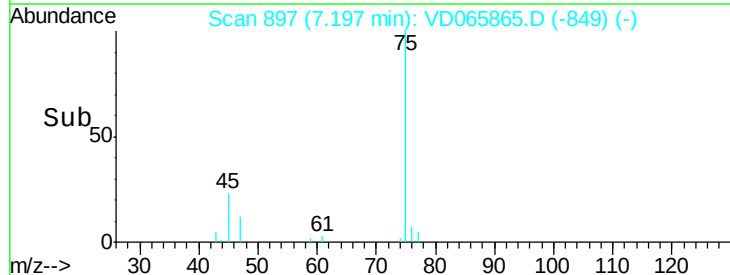
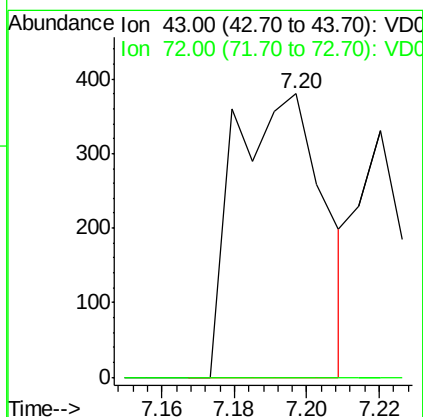
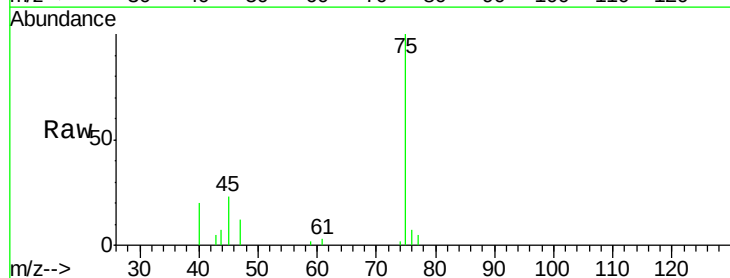
Instrument :
MSVOA_D
ClientSampled :
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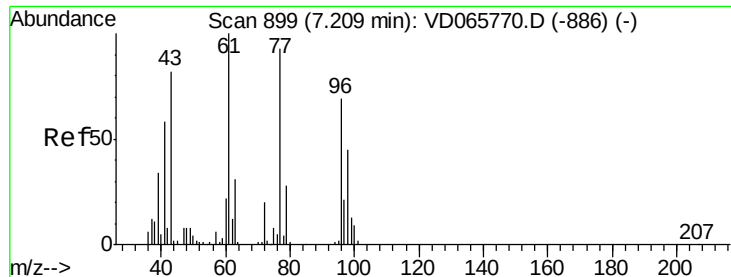
Tot Ion: 84 Resp: 8201
Ion Ratio Lower Upper
84 100
49 105.5 103.4 155.0
51 26.1 31.4 47.2#
86 60.9 51.7 77.5



#25
2-Butanone
Concen: 39.670 ug/l
RT: 7.20 min Scan# 897
Delta R.T. -0.02 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

Tgt Ion: 43 Resp: 651
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#

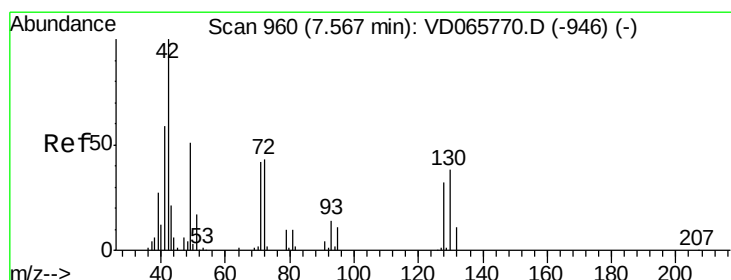
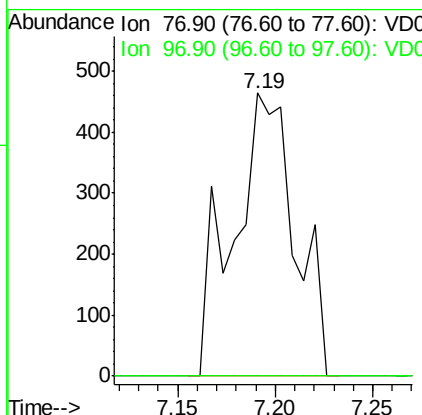
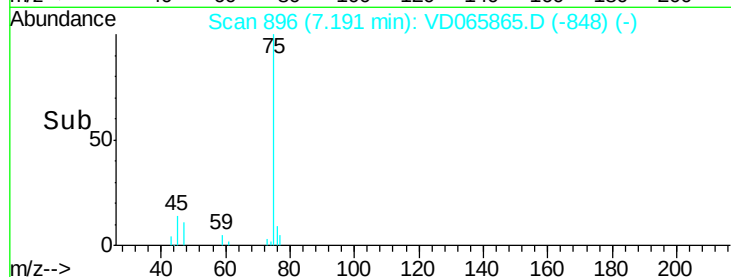
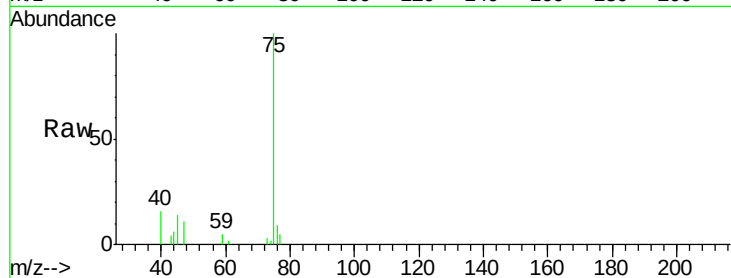




#26
 2,2-Dichloropropane
 Concen: 9.772 ug/l
 RT: 7.19 min Scan# 896
 Delta R.T. -0.02 min
 Lab File: VD065865.D
 Acq: 23 Jun 2020 17:31

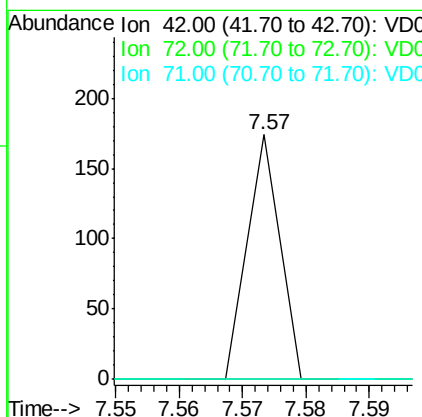
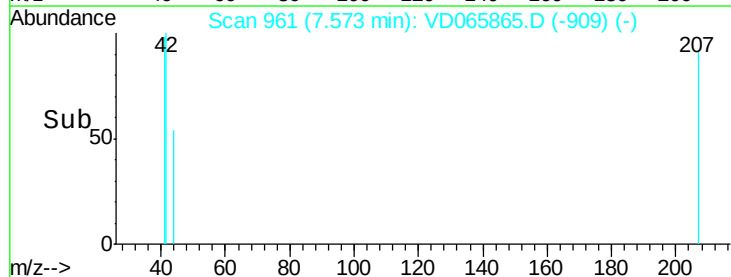
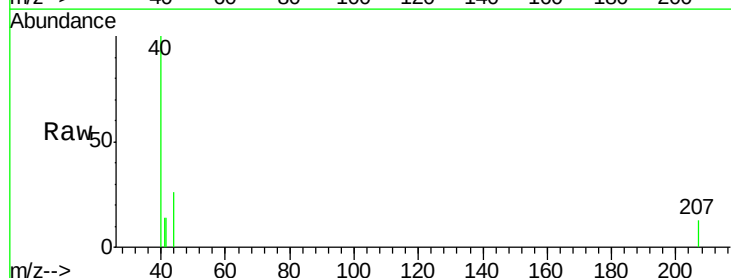
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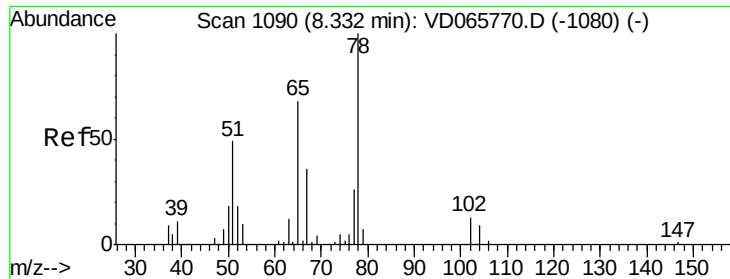
Tot Ion: 77 Resp: 1021
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.9 32.7#



#29
 Tetrahydrofuran
 Concen: 5.881 ug/l
 RT: 7.57 min Scan# 961
 Delta R.T. 0.01 min
 Lab File: VD065865.D
 Acq: 23 Jun 2020 17:31

Tgt Ion: 42 Resp: 61
 Ion Ratio Lower Upper
 42 100
 72 0.0 34.9 52.3#
 71 0.0 31.2 46.8#

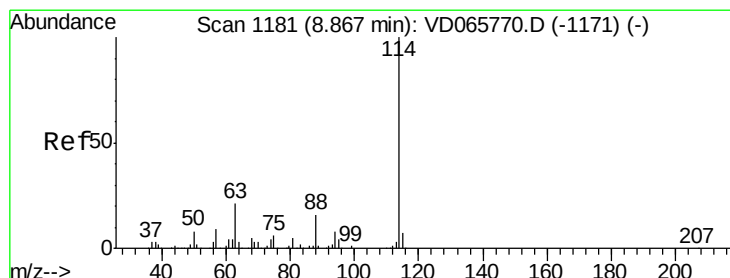
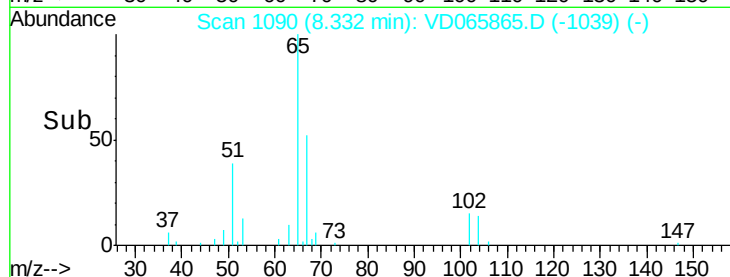
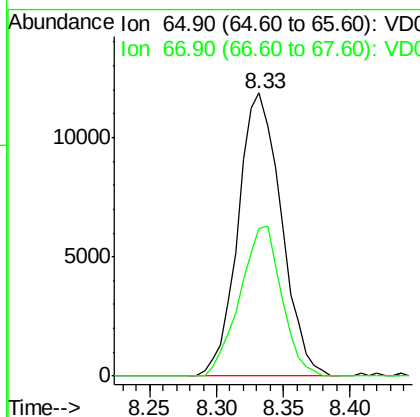
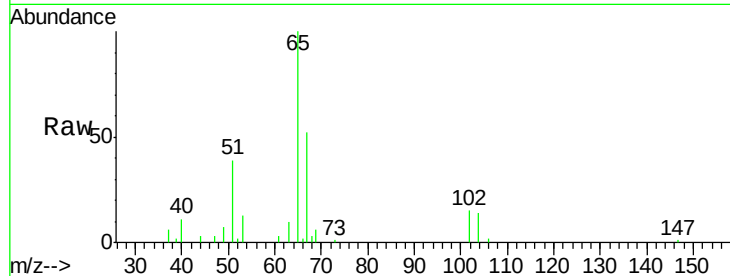




#33
 1,2-Dichloroethane-d4
 Concen: 422.186 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD065865.D
 Acq: 23 Jun 2020 17:31

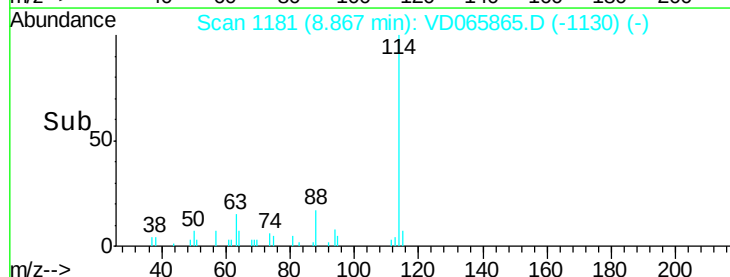
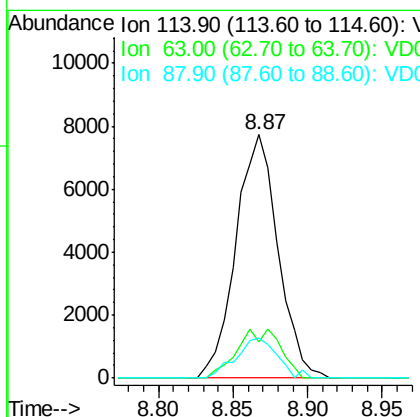
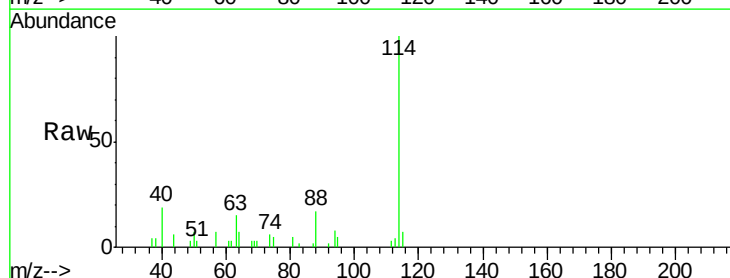
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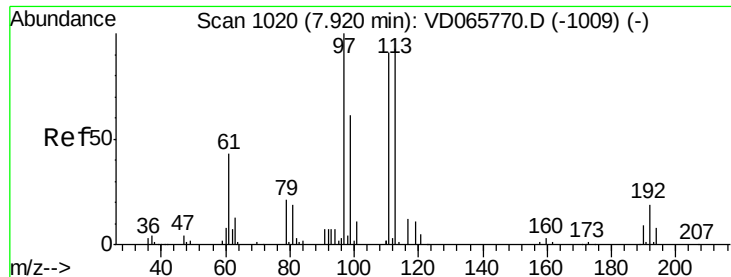
Tot Ion: 65 Resp: 26595
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065865.D
 Acq: 23 Jun 2020 17:31

Tgt Ion: 114 Resp: 15176
 Ion Ratio Lower Upper
 114 100
 63 14.6 0.0 41.8
 88 16.6 0.0 32.0

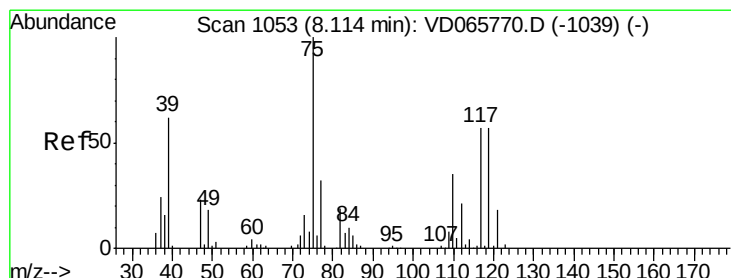
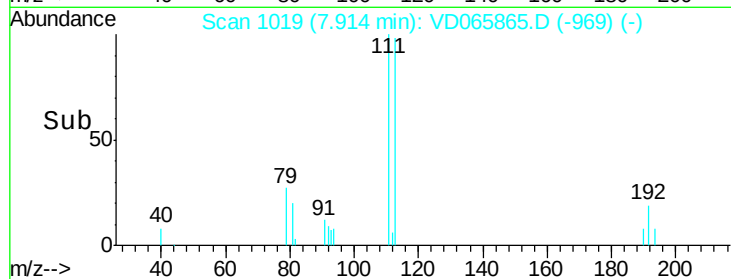
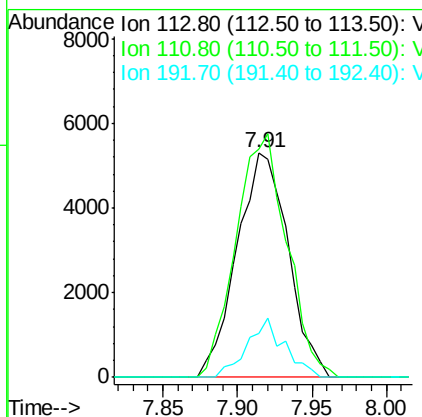
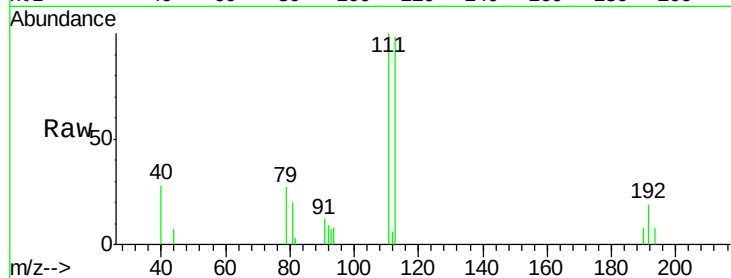




#35
 Dibromofluoromethane
 Concen: 131.942 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD065865.D
 Acq: 23 Jun 2020 17:31

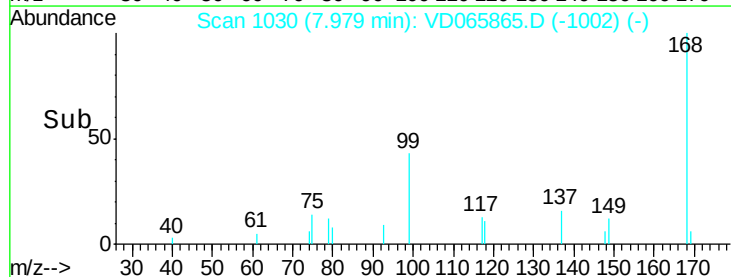
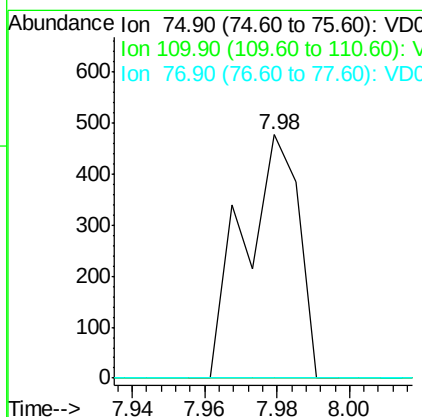
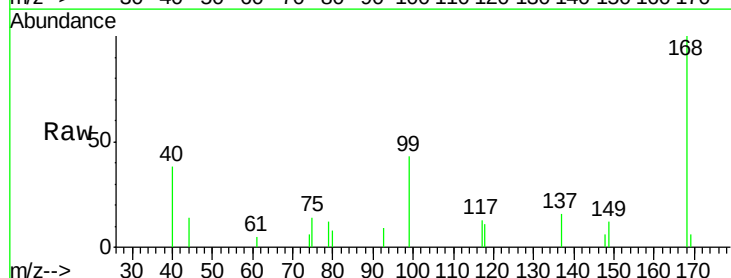
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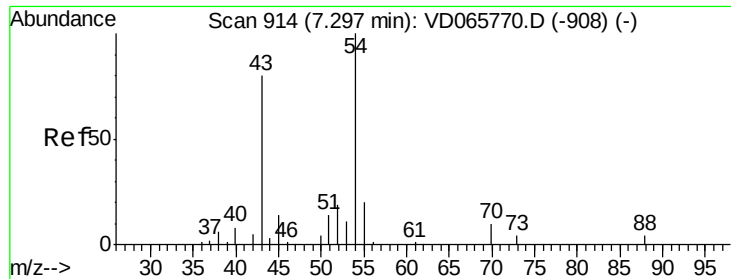
Tot Ion:113 Resp: 12648
 Ion Ratio Lower Upper
 113 100
 111 107.8 83.4 125.0
 192 19.1 15.7 23.5



#36
 1,1-Dichloropropene
 Concen: 3.439 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065865.D
 Acq: 23 Jun 2020 17:31

Tgt Ion: 75 Resp: 500
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.6 52.8#
 77 0.0 25.1 37.7#

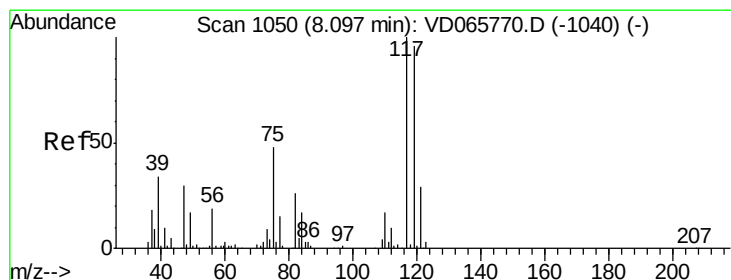
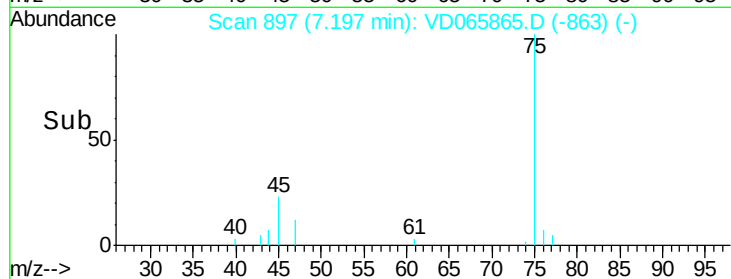
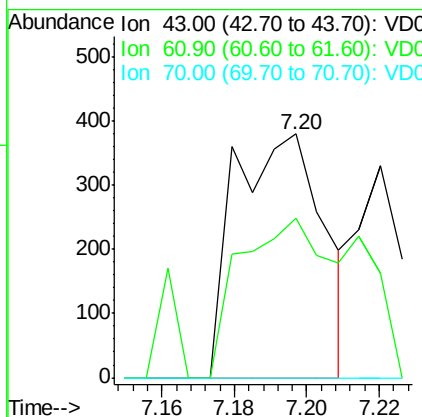
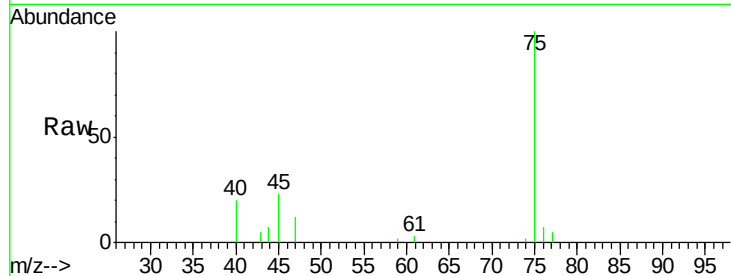




#37
Ethyl Acetate
Concen: 11.369 ug/l
RT: 7.20 min Scan# 897
Delta R.T. -0.10 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

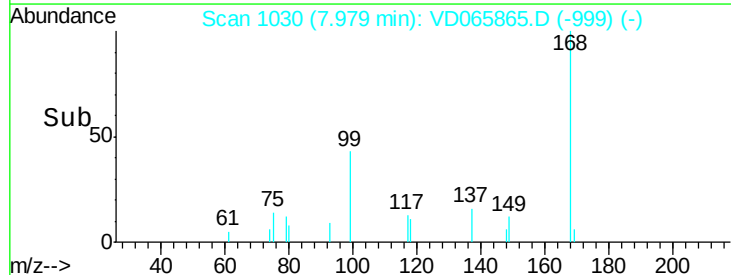
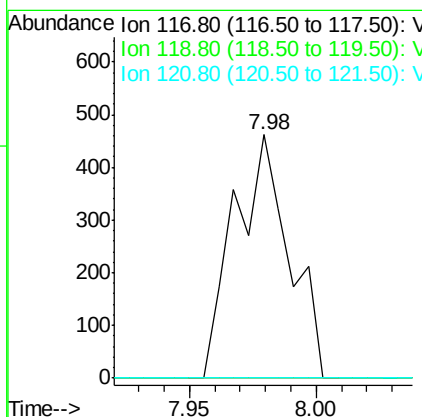
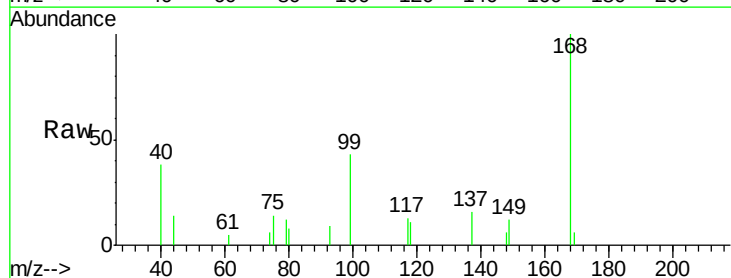
Instrument :
MSVOA_D
ClientSampled :
SB-19

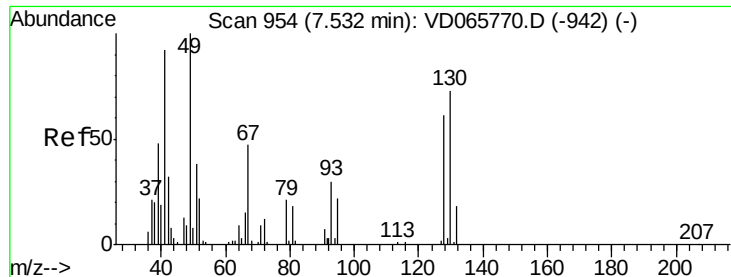
Tot Ion: 43 Resp: 651
Ion Ratio Lower Upper
43 100
61 87.1 10.6 15.8#
70 0.0 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 4.549 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

Tgt Ion: 117 Resp: 696
Ion Ratio Lower Upper
117 100
119 0.0 76.8 115.2#
121 0.0 23.4 35.2#

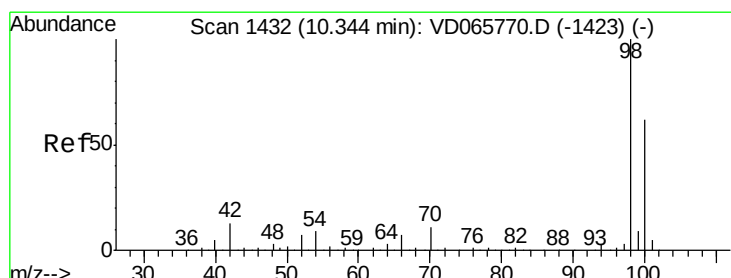
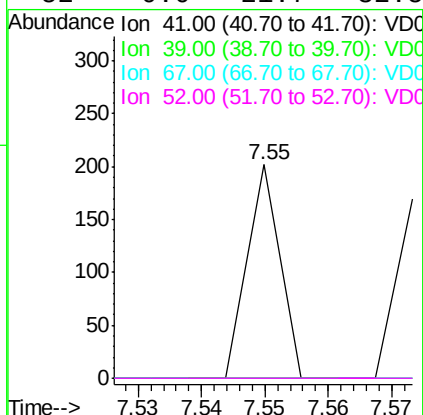
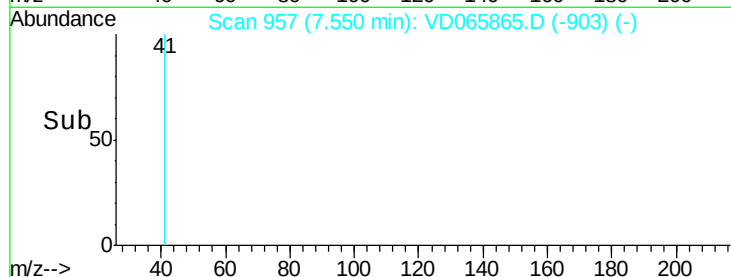
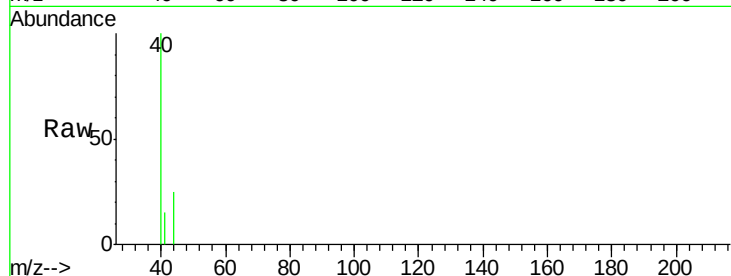




#41
Methacrylonitrile
Concen: 2.082 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.02 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

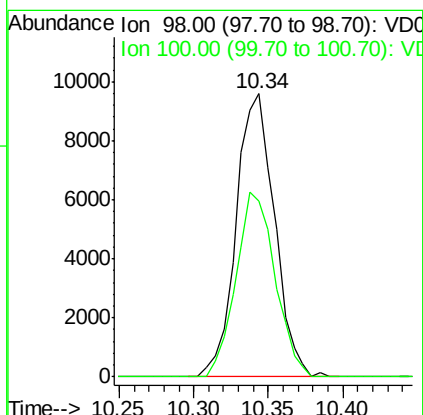
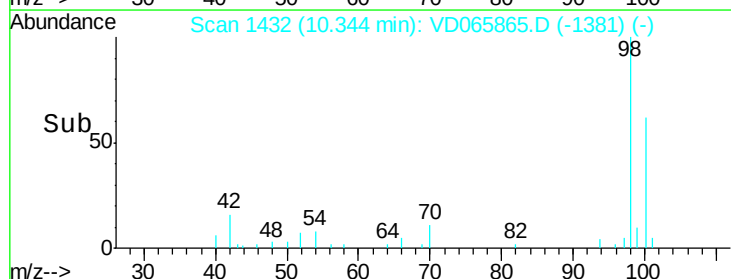
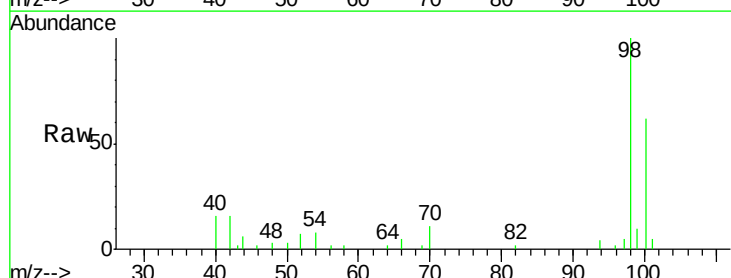
Instrument :
MSVOA_D
ClientSampleId :
SB-19

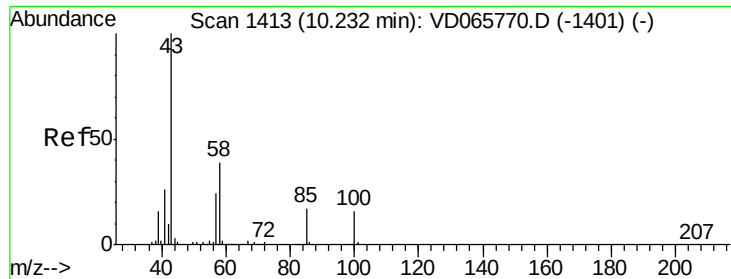
Tot Ion: 41 Resp: 71
Ion Ratio Lower Upper
41 100
39 0.0 38.3 57.5#
67 0.0 49.8 74.6#
52 0.0 21.7 32.5#



#50
Toluene-d8
Concen: 47.822 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

Tgt Ion: 98 Resp: 17094
Ion Ratio Lower Upper
98 100
100 66.4 51.4 77.2





#51

4-Methyl-2-Pentanone

Concen: 5.162 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

Instrument :

MSVOA_D

ClientSampleID :

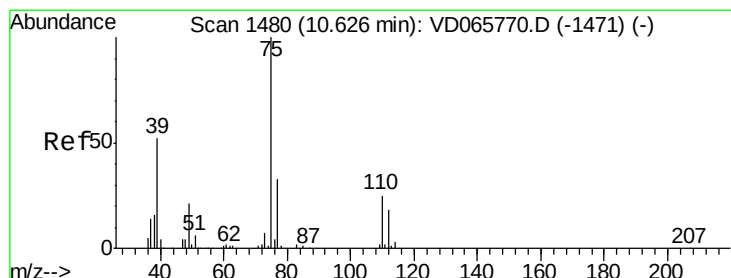
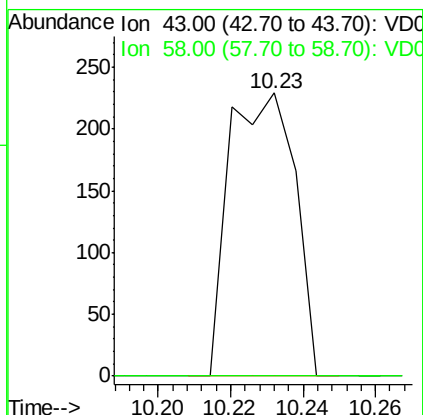
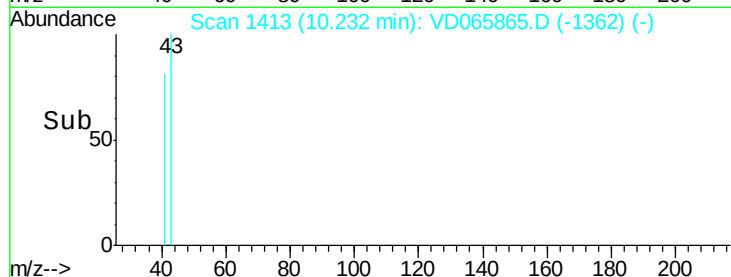
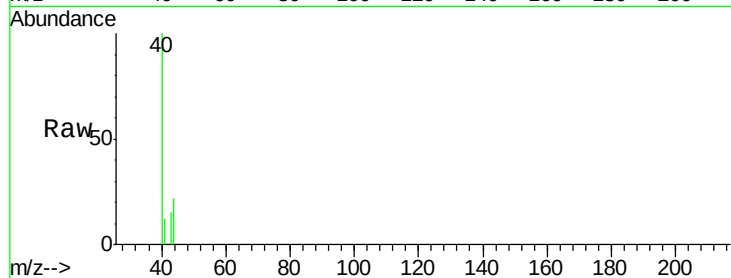
SB-19

Tot Ion: 43 Resp: 288

Ion Ratio Lower Upper

43 100

58 0.0 30.7 46.1#



#53

t-1,3-Dichloropropene

Concen: 2.260 ug/l

RT: 10.72 min Scan# 1496

Delta R.T. 0.09 min

Lab File: VD065865.D

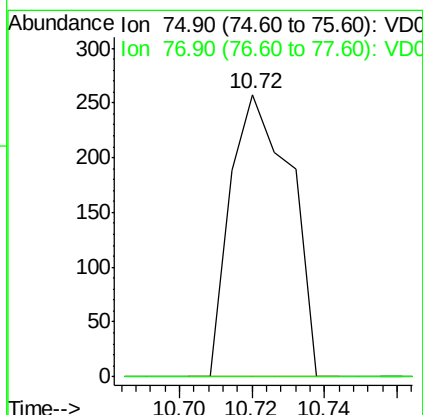
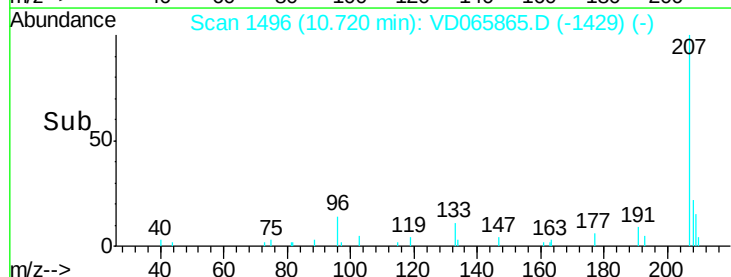
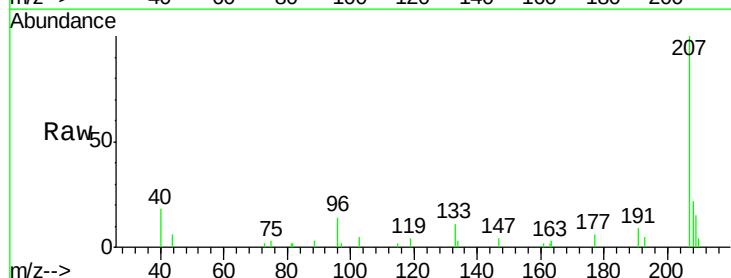
Acq: 23 Jun 2020 17:31

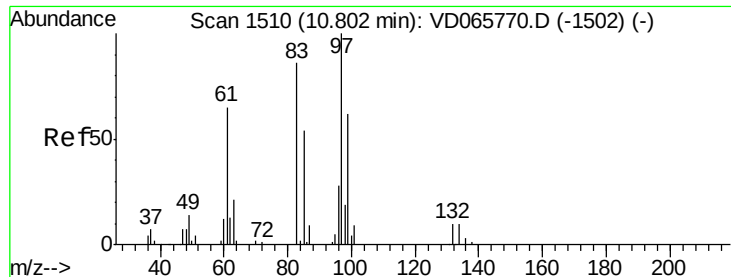
Tgt Ion: 75 Resp: 297

Ion Ratio Lower Upper

75 100

77 0.0 26.4 39.6#





#55

1,1,2-Trichloroethane

Concen: 3.012 ug/l

RT: 10.73 min Scan# 1497

Delta R.T. -0.08 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

Instrument :

MSVOA_D

ClientSampleId :

SB-19

Tot Ion: 97 Resp: 218

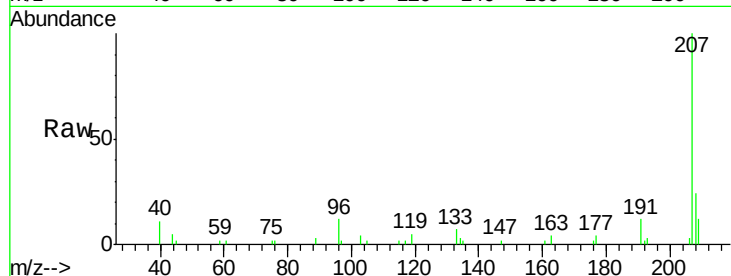
Ion Ratio Lower Upper

97 100

83 0.0 68.7 103.1#

85 0.0 43.0 64.6#

99 0.0 49.8 74.6#

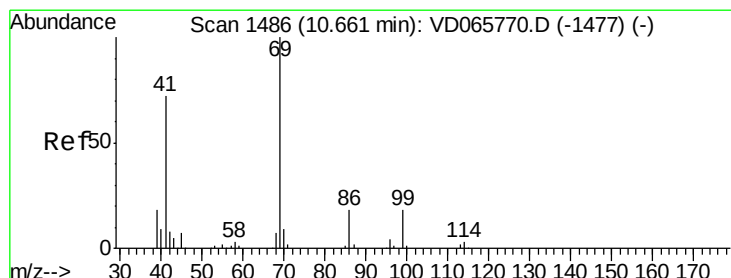
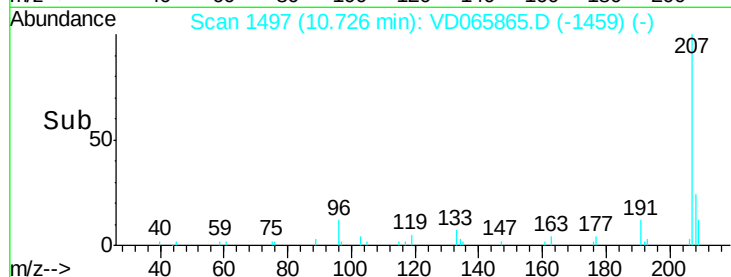
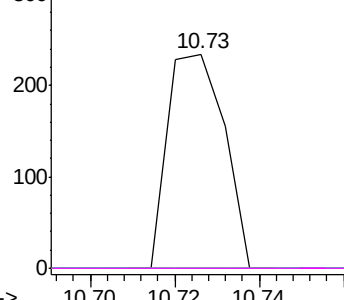


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 3.818 ug/l

RT: 10.82 min Scan# 1513

Delta R.T. 0.16 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

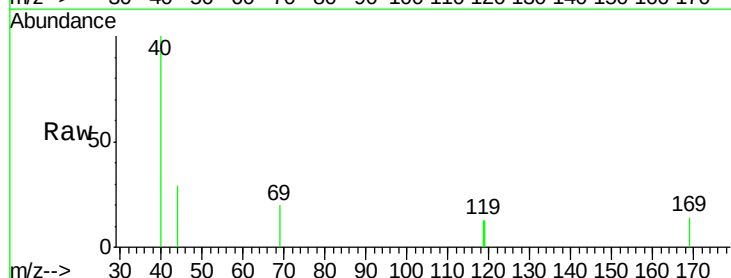
Tgt Ion: 69 Resp: 325

Ion Ratio Lower Upper

69 100

41 0.0 56.9 85.3#

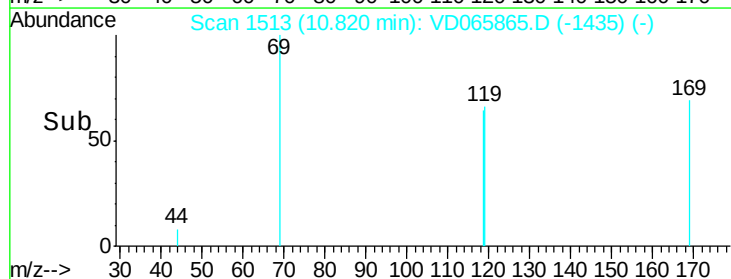
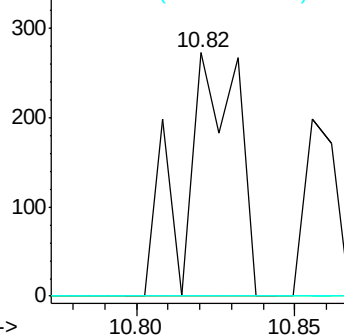
39 0.0 36.0 54.0#

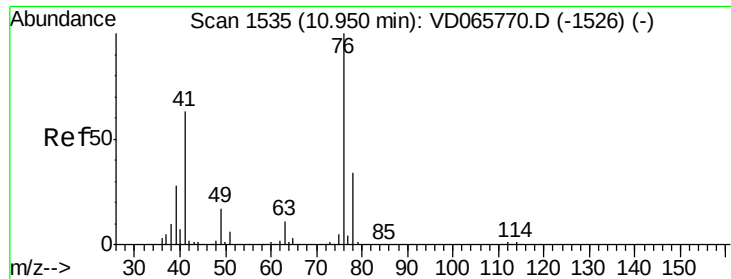


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#57

1,3-Dichloropropane

Concen: 1.133 ug/l

RT: 11.09 min Scan# 1559

Delta R.T. 0.14 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

Instrument :

MSVOA_D

ClientSampled :

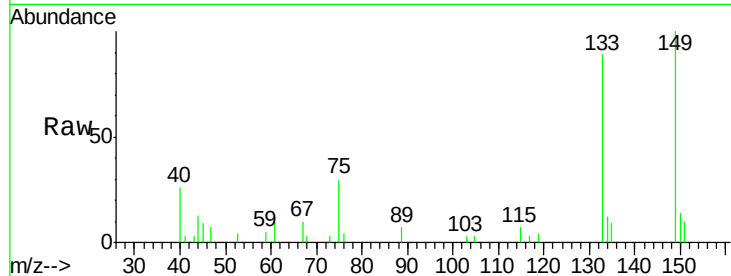
SB-19

Tot Ion: 76 Resp: 142

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#

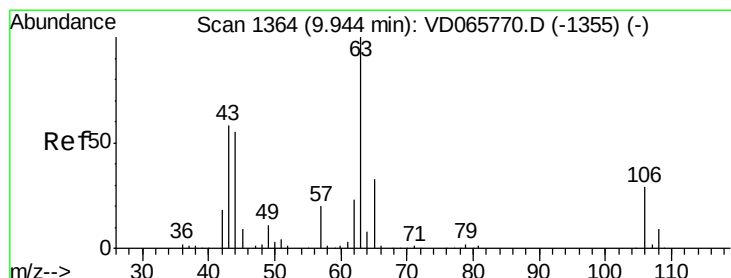
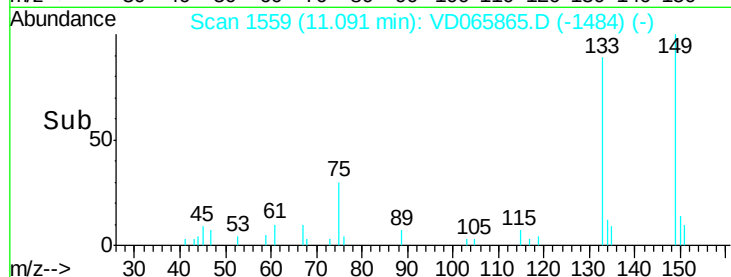


Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

11.09

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 2.097 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD065865.D

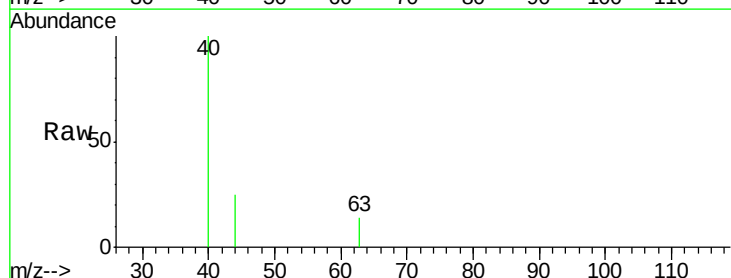
Acq: 23 Jun 2020 17:31

Tgt Ion: 63 Resp: 83

Ion Ratio Lower Upper

63 100

106 0.0 23.2 34.8#

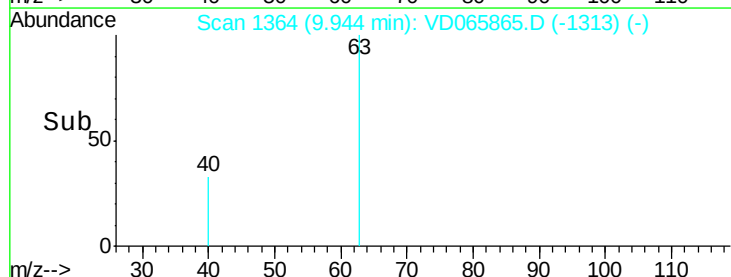


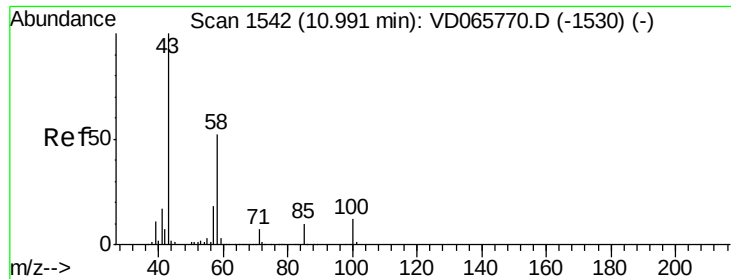
Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

9.94

Time-->

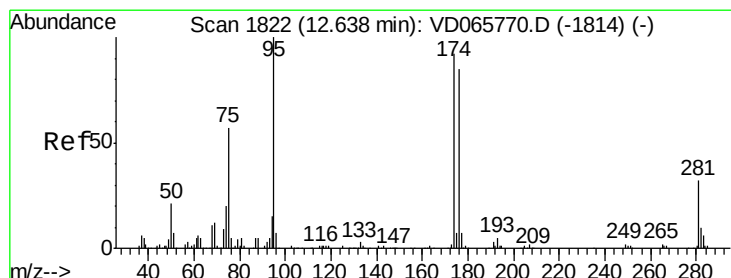
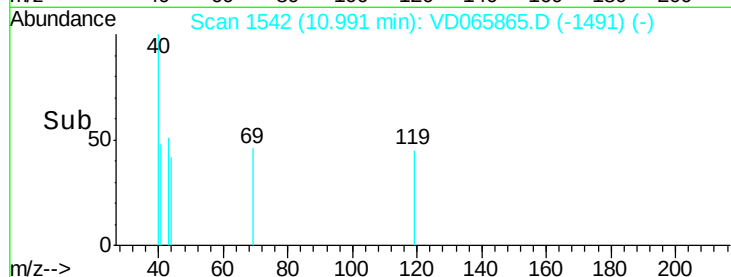
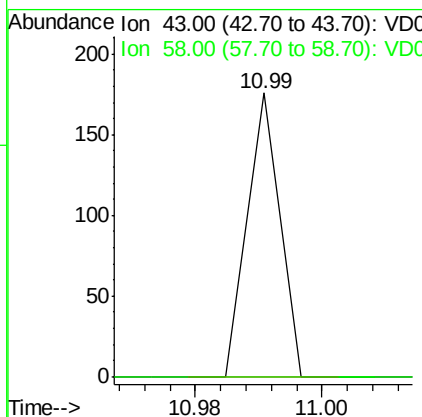
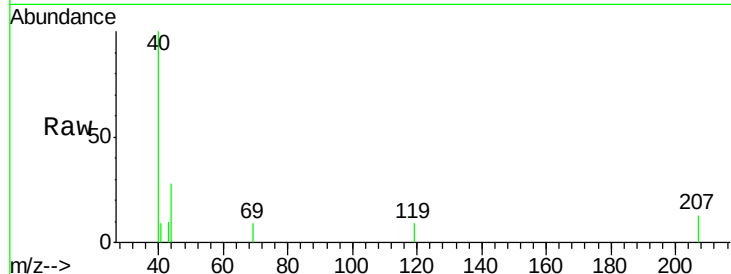




#59
2-Hexanone
Concen: 1.648 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

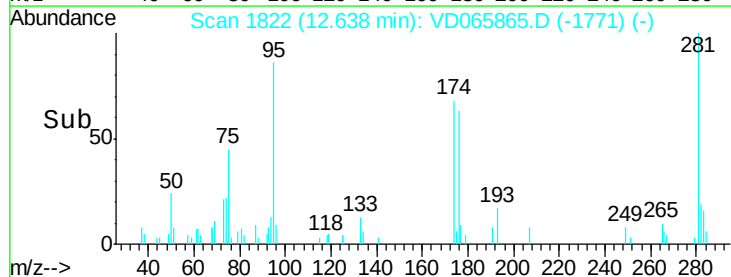
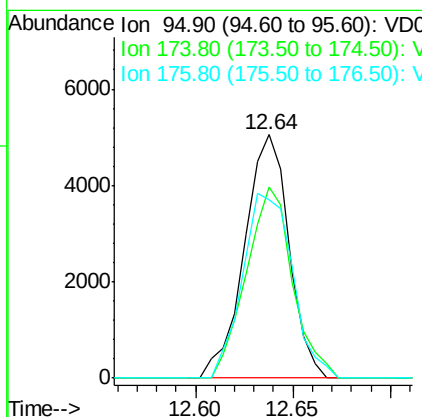
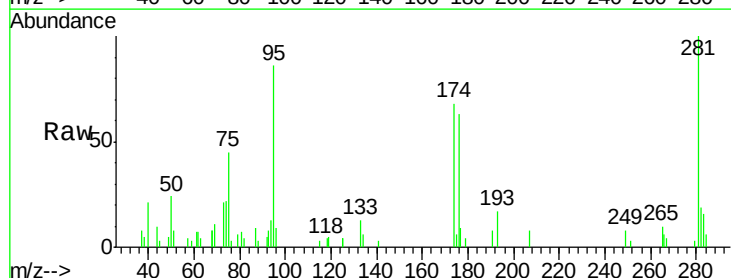
Instrument :
MSVOA_D
ClientSampleId :
SB-19

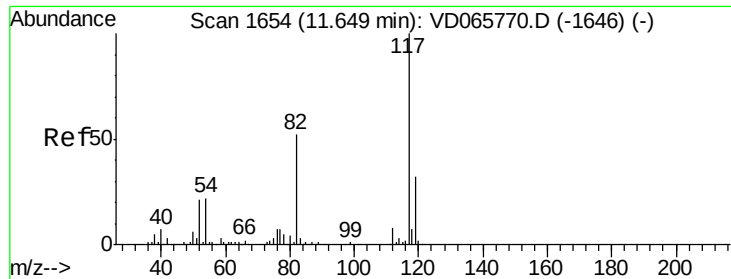
Tot Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 25.7 77.0#



#62
4-Bromofluorobenzene
Concen: 65.729 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

Tgt Ion: 95 Resp: 7968
Ion Ratio Lower Upper
95 100
174 81.3 0.0 175.2
176 85.0 0.0 163.0

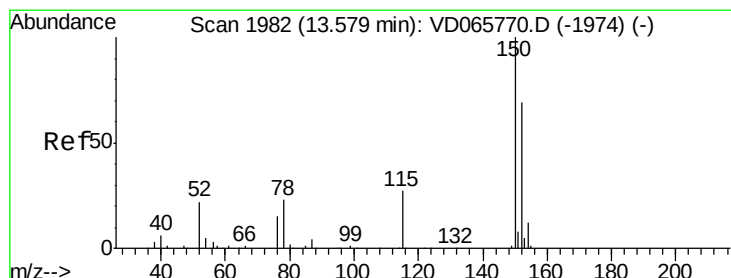
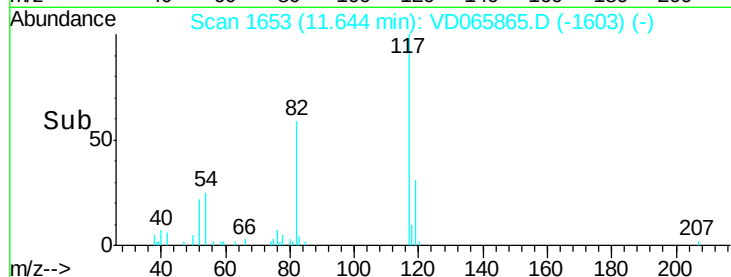
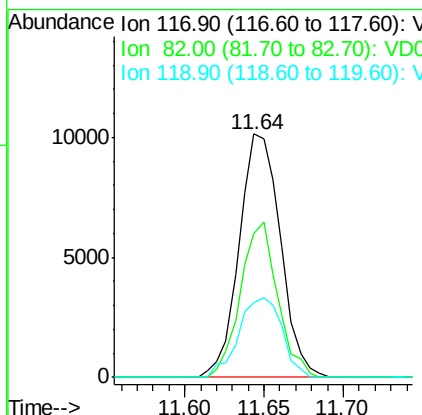
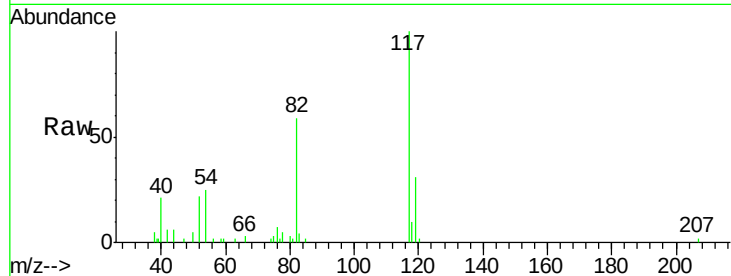




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

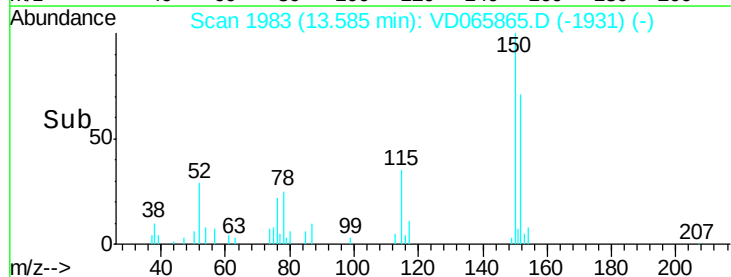
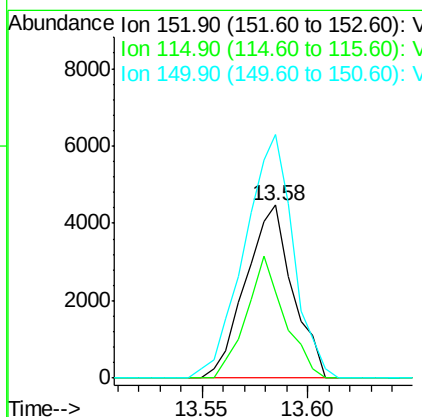
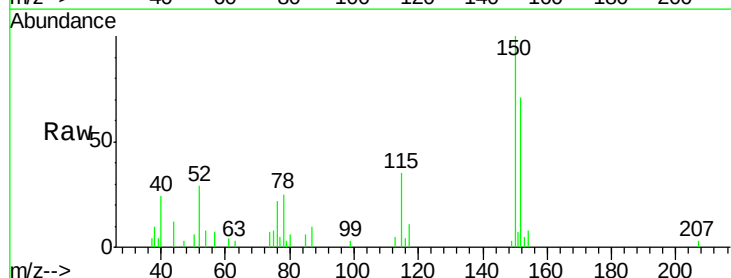
Instrument :
MSVOA_D
ClientSampleId :
SB-19

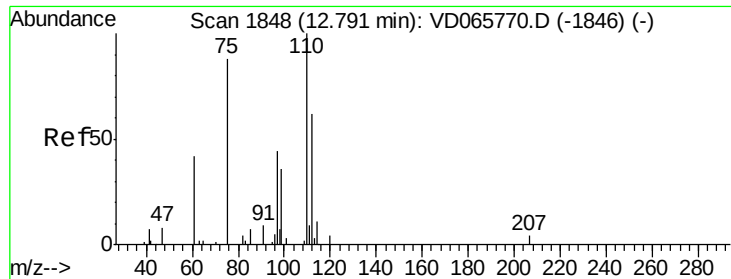
Tot Ion:117 Resp: 18349
Ion Ratio Lower Upper
117 100
82 59.2 41.9 62.9
119 30.8 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD065865.D
Acq: 23 Jun 2020 17:31

Tgt Ion:152 Resp: 6915
Ion Ratio Lower Upper
152 100
115 57.2 28.7 86.1
150 146.1 0.0 348.0





#76

1,2,3-Trichloropropane

Concen: 91.653 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.16 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

Instrument :

MSVOA_D

ClientSampleId :

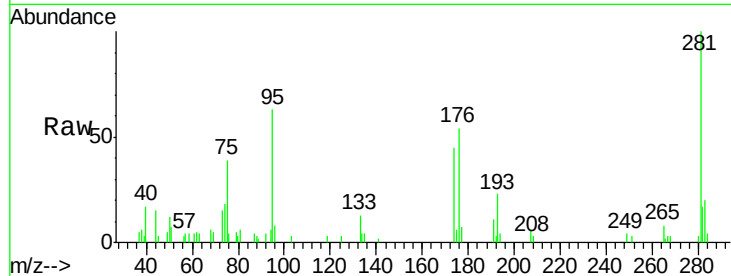
SB-19

Tot Ion: 75 Resp: 4929

Ion Ratio Lower Upper

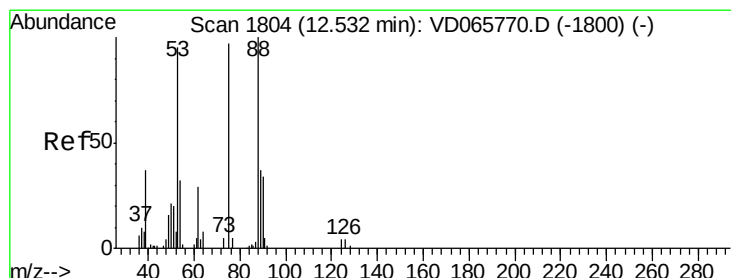
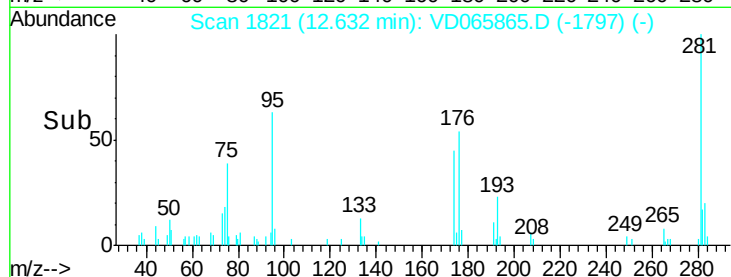
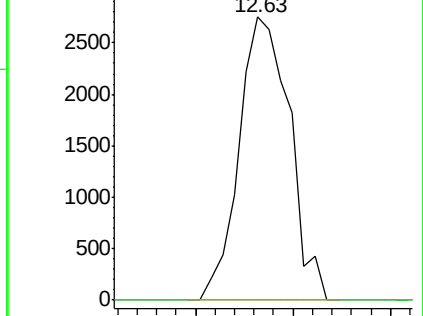
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 198.028 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

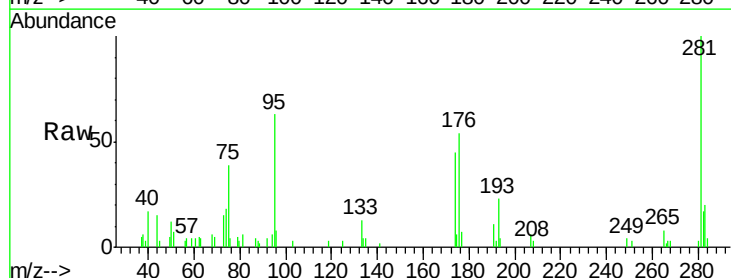
Tgt Ion: 75 Resp: 4929

Ion Ratio Lower Upper

75 100

53 0.0 82.6 123.8#

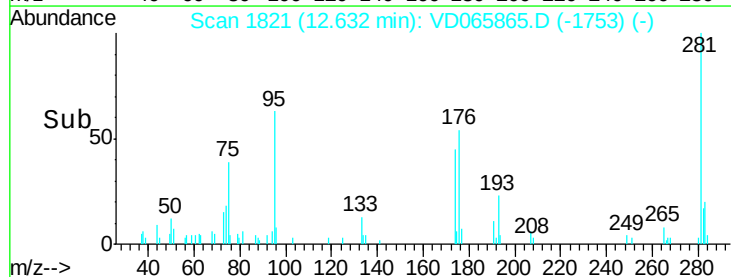
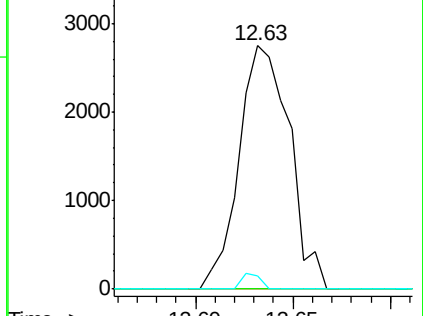
89 2.4 35.9 53.9#

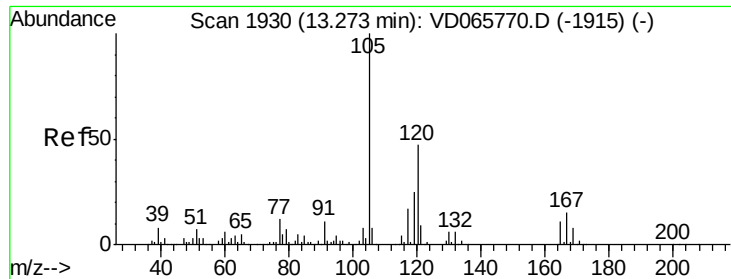


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#84

1,2,4-Trimethylbenzene

Concen: 1.134 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

Instrument :

MSVOA_D

ClientSampleId :

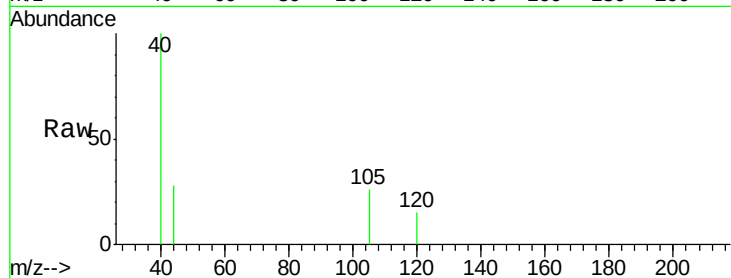
SB-19

Tot Ion:105 Resp: 438

Ion Ratio Lower Upper

105 100

120 26.3 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.27

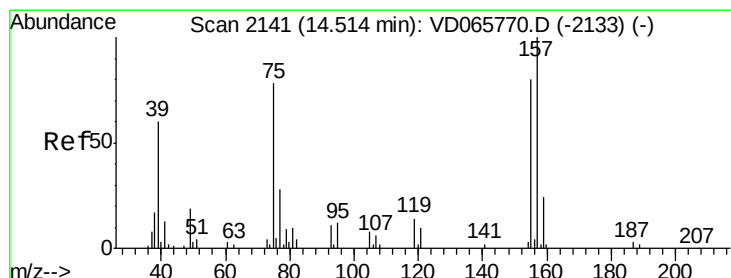
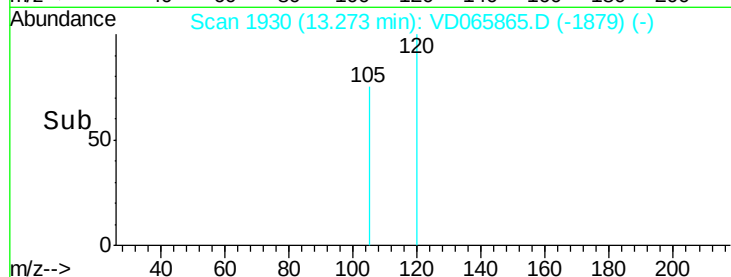
300

200

100

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 6.676 ug/l

RT: 14.39 min Scan# 2120

Delta R.T. -0.12 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

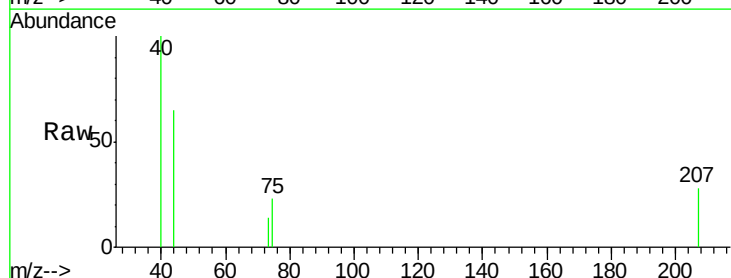
Tgt Ion: 75 Resp: 87

Ion Ratio Lower Upper

75 100

155 0.0 46.3 138.9#

157 0.0 58.1 174.3#



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

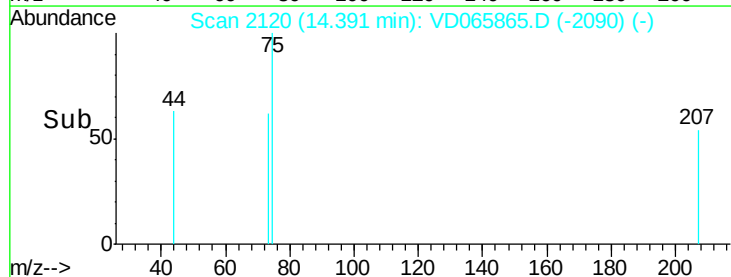
300

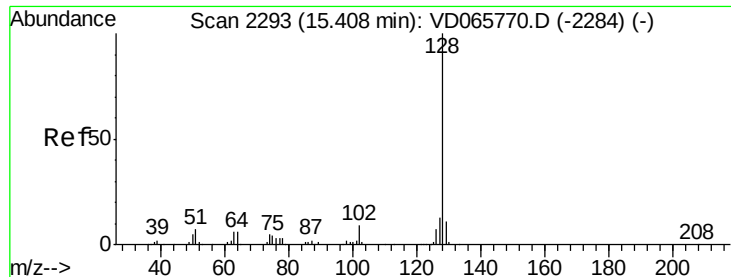
200

100

0

Time-->





#95

Naphthalene

Concen: 1.413 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD065865.D

Acq: 23 Jun 2020 17:31

Instrument :

MSVOA_D

ClientSampleId :

SB-19

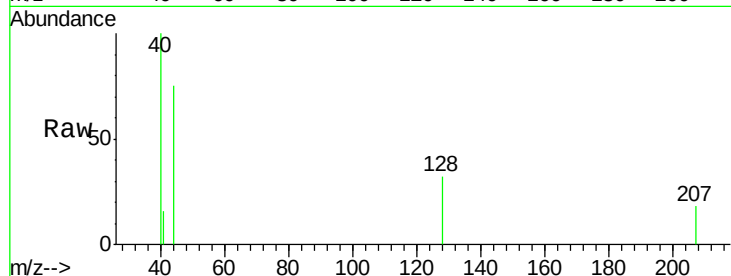
Tot Ion:128 Resp: 303

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.6 12.8#



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

