

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD100820\
 Data File : VD067189.D
 Acq On : 08 Oct 2020 12:47
 Operator : VA/SY
 Sample : L4282-03RE
 Misc : 1.17G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 68-89RE

Quant Time: Oct 08 18:58:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	237457	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	399590	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	310681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	114072	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	137099	59.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.88%	
35) Dibromofluoromethane	7.91	113	138175	52.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.64%	
50) Toluene-d8	10.34	98	412375	43.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.52%	
62) 4-Bromofluorobenzene	12.64	95	112304	34.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.40%	

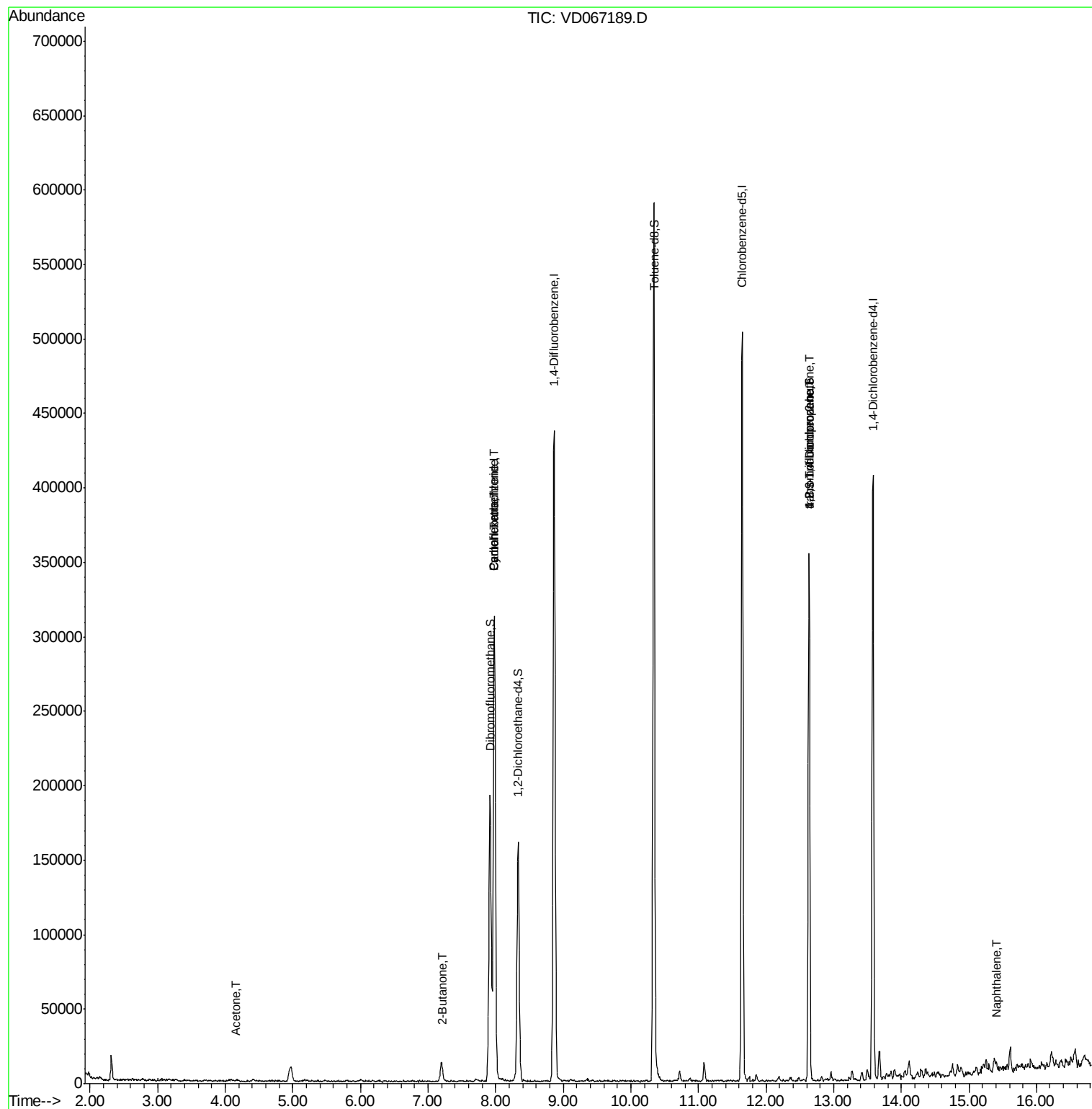
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	728	Below Cal		76
5) Bromomethane	2.78	94	240	Below Cal		97
11) Tert butyl alcohol	5.24	59	163	Below Cal	#	72
16) Acetone	4.16	43	1261	3.612	ug/l #	42
20) Methylene Chloride	4.97	84	10028	Below Cal		90
25) 2-Butanone	7.22	43	537	1.085	ug/l #	46
26) 2,2-Dichloropropane	7.20	77	902	Below Cal	#	53
31) Cyclohexane	7.98	56	5282	1.538	ug/l #	18
38) Carbon Tetrachloride	7.98	117	25055	6.217	ug/l #	14
76) 1,2,3-Trichloropropane	12.64	75	57456	57.826	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	57456	144.167	ug/l #	12
95) Naphthalene	15.41	128	5819	1.695	ug/l	95

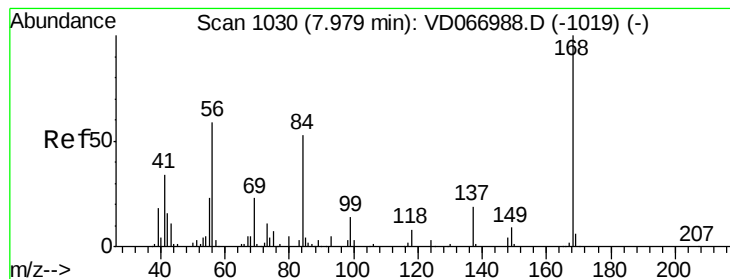
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

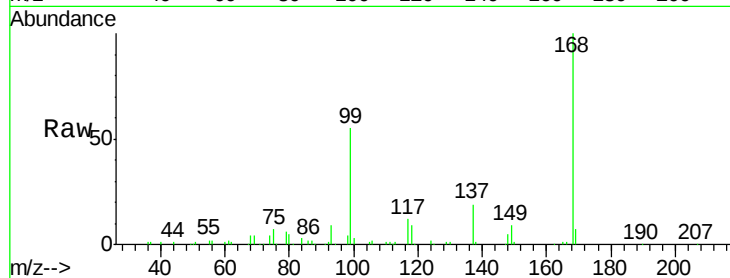
68-89RE

Tgt Ion:168 Resp: 237457

Ion Ratio Lower Upper

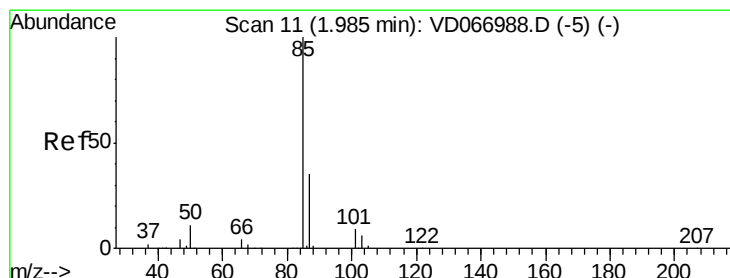
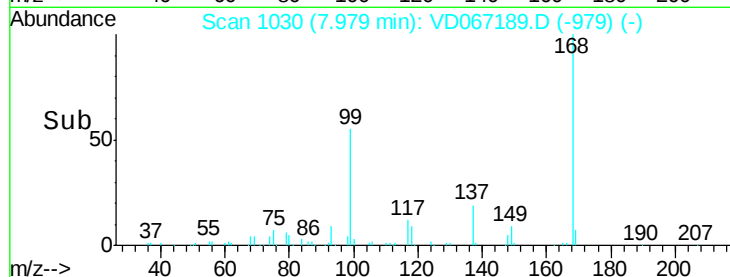
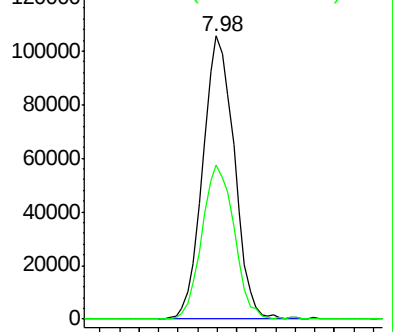
168 100

99 54.5 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067189.D

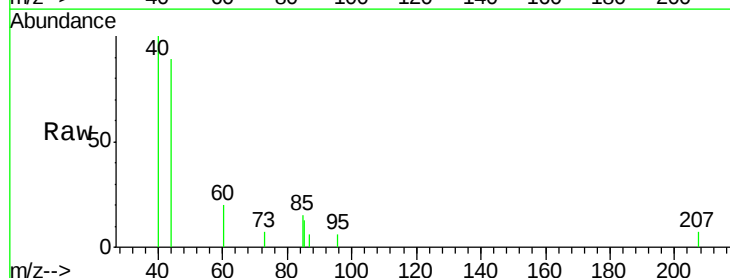
Acq: 08 Oct 2020 12:47

Tgt Ion: 85 Resp: 728

Ion Ratio Lower Upper

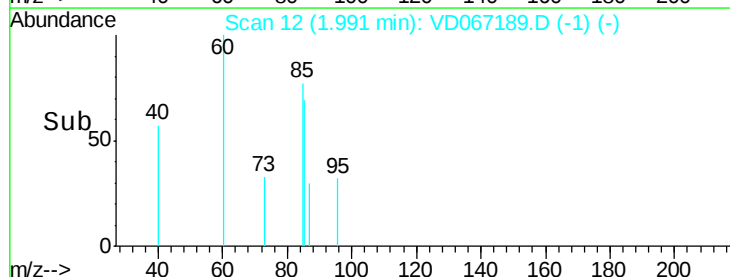
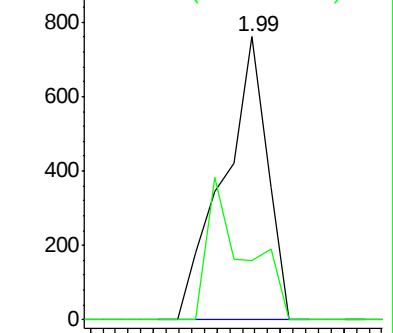
85 100

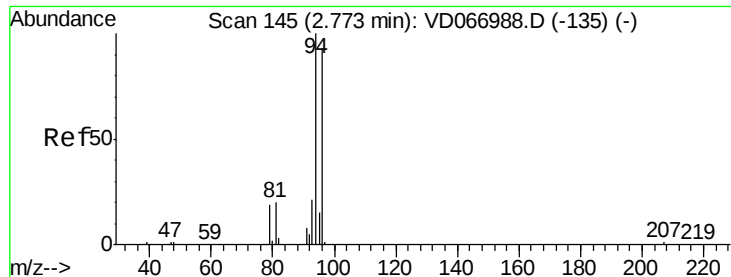
87 20.9 17.3 52.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

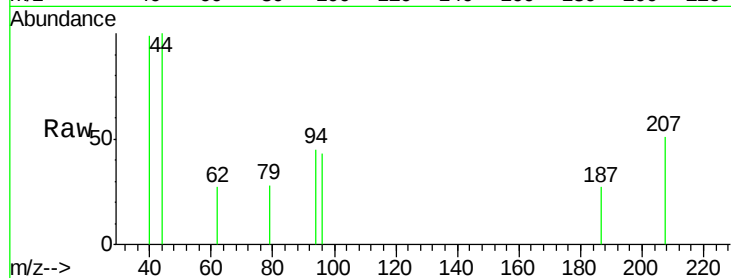
68-89RE

Tgt Ion: 94 Resp: 240

Ion Ratio Lower Upper

94 100

96 96.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

500

400

300

200

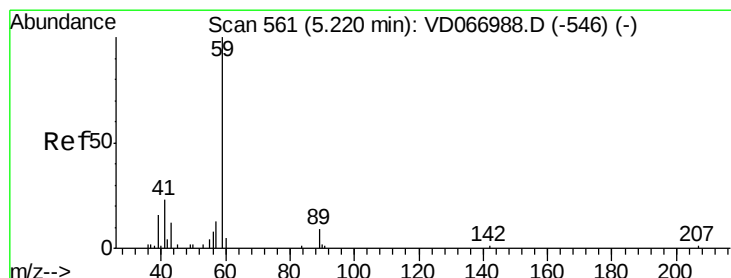
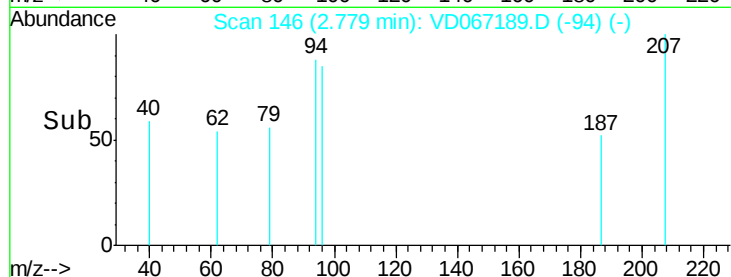
100

0

2.76

2.78

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.24 min Scan# 564

Delta R.T. 0.02 min

Lab File: VD067189.D

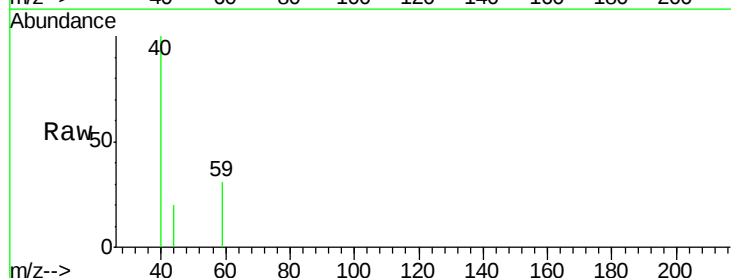
Acq: 08 Oct 2020 12:47

Tgt Ion: 59 Resp: 163

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

400

300

200

100

0

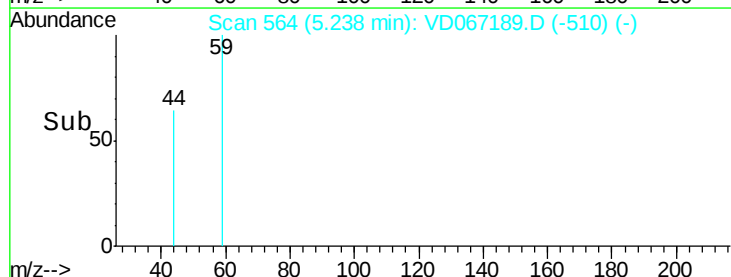
5.22

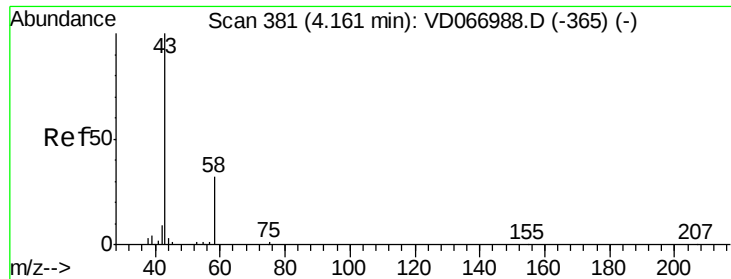
5.23

5.24

5.25

Time-->





#16

Acetone

Concen: 3.612 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

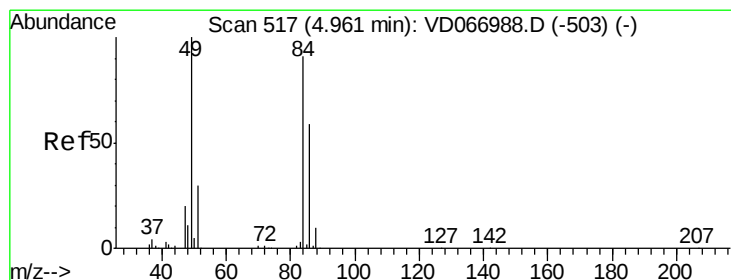
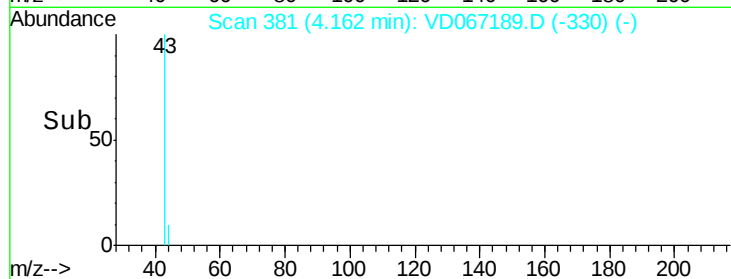
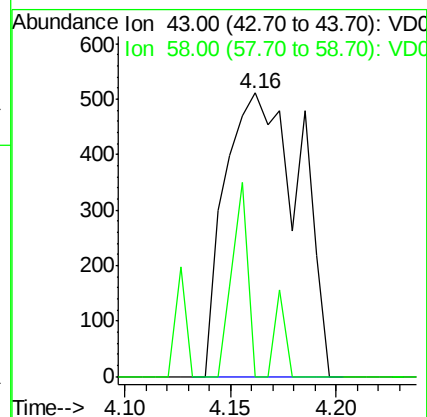
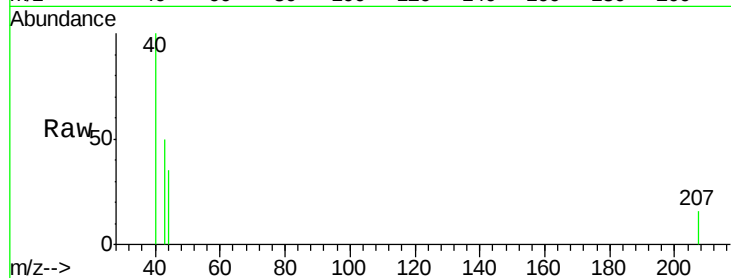
68-89RE

Tgt Ion: 43 Resp: 1261

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

Tgt Ion: 84 Resp: 10028

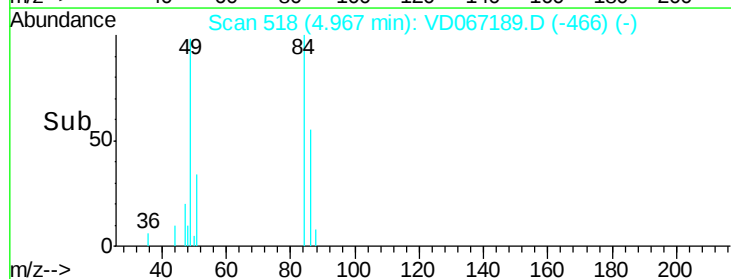
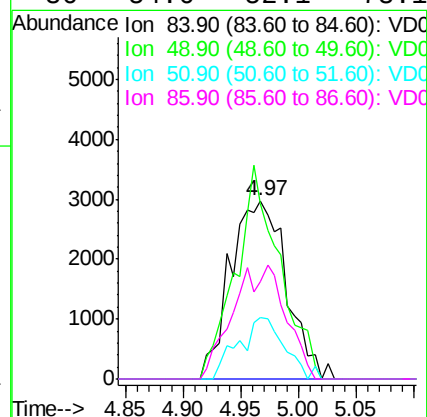
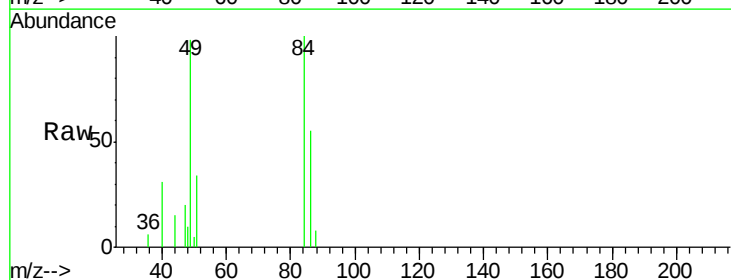
Ion Ratio Lower Upper

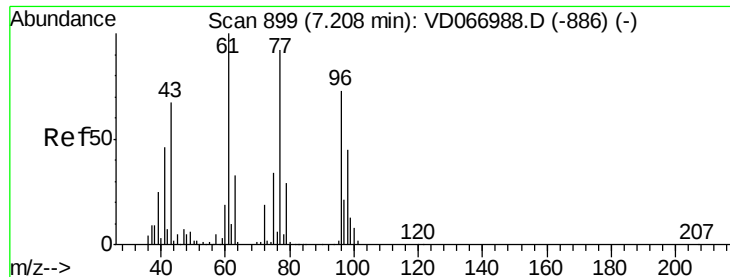
84 100

49 98.3 88.2 132.2

51 34.3 26.6 39.8

86 54.6 52.1 78.1





#25

2-Butanone

Concen: 1.085 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

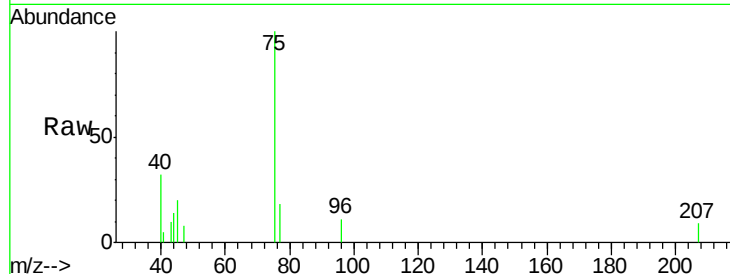
68-89RE

Tgt Ion: 43 Resp: 537

Ion Ratio Lower Upper

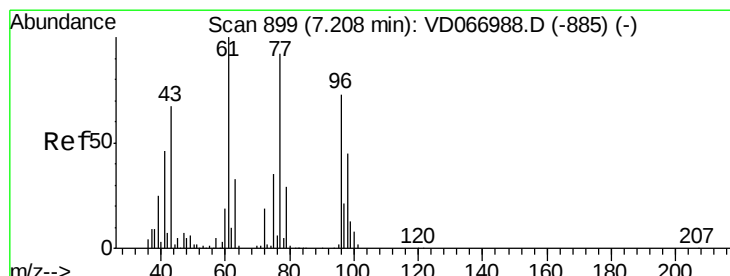
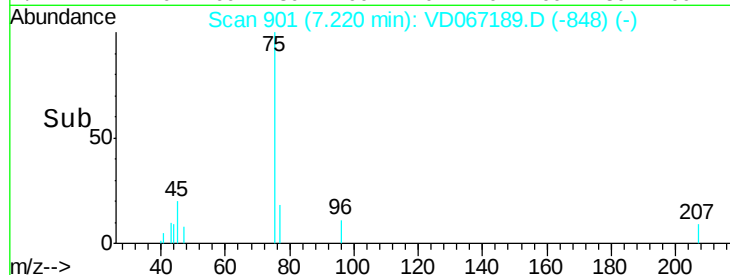
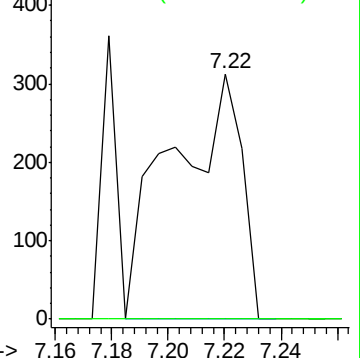
43 100

72 0.0 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD067189.D

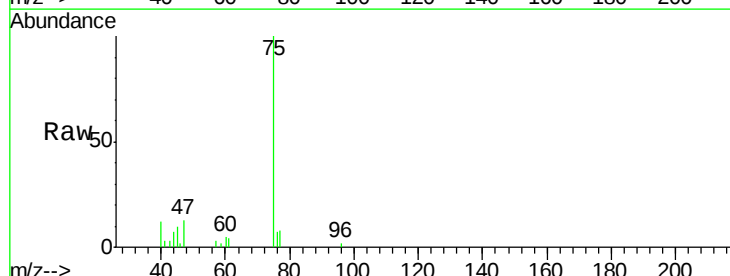
Acq: 08 Oct 2020 12:47

Tgt Ion: 77 Resp: 902

Ion Ratio Lower Upper

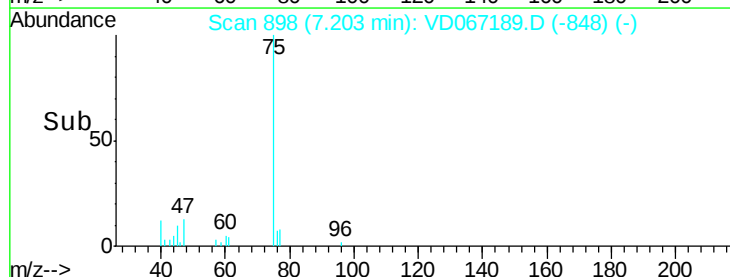
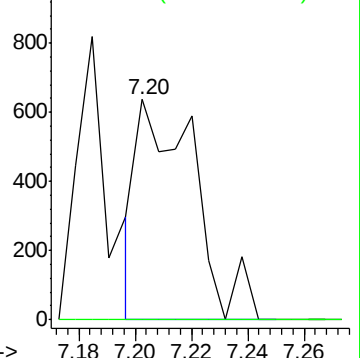
77 100

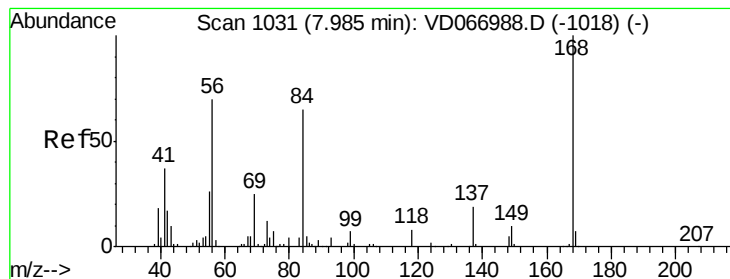
97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#31

Cyclohexane

Concen: 1.538 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

68-89RE

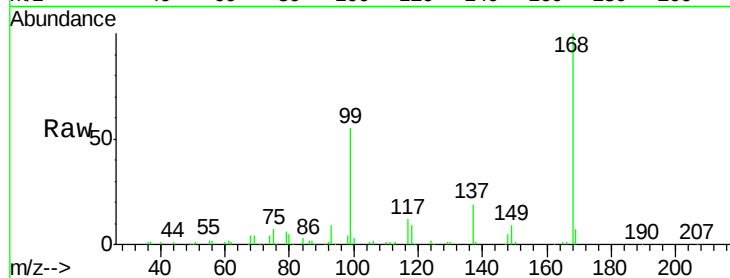
Tgt Ion: 56 Resp: 5282

Ion Ratio Lower Upper

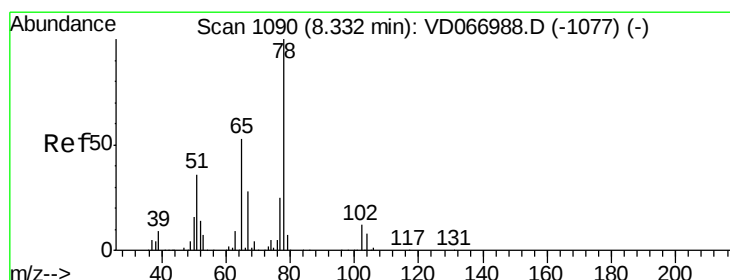
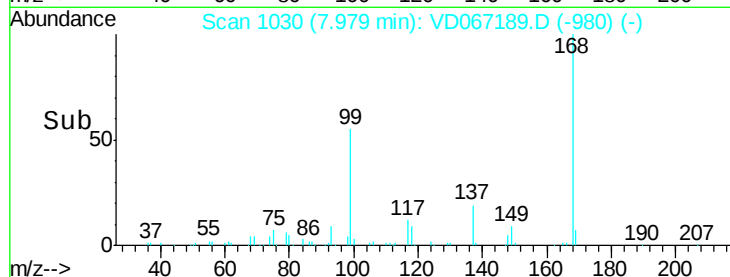
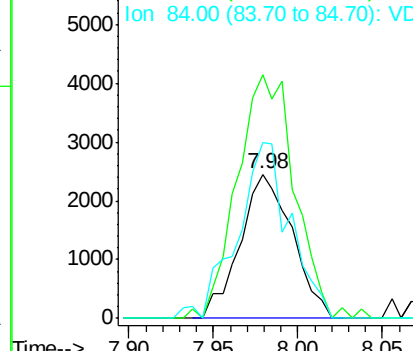
56 100

69 162.7 29.0 43.6#

84 121.9 74.2 111.2#



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



#33

1,2-Dichloroethane-d4

Concen: 59.943 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067189.D

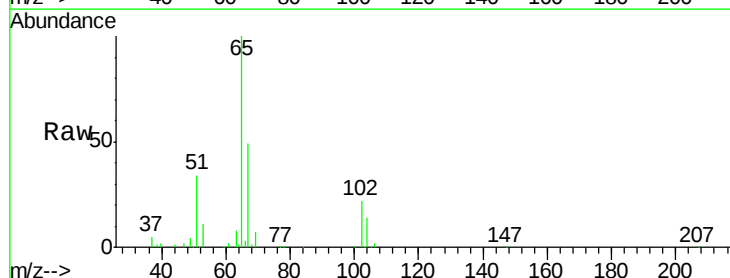
Acq: 08 Oct 2020 12:47

Tgt Ion: 65 Resp: 137099

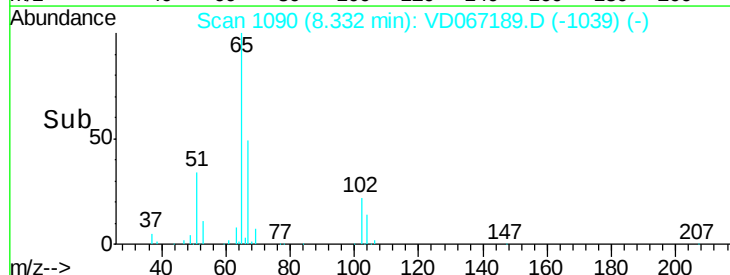
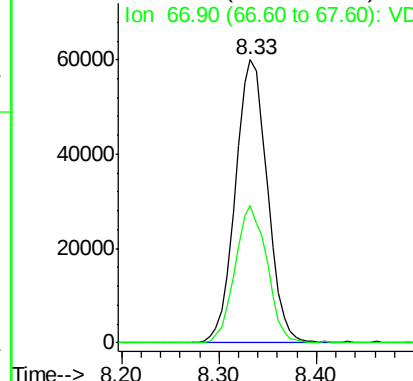
Ion Ratio Lower Upper

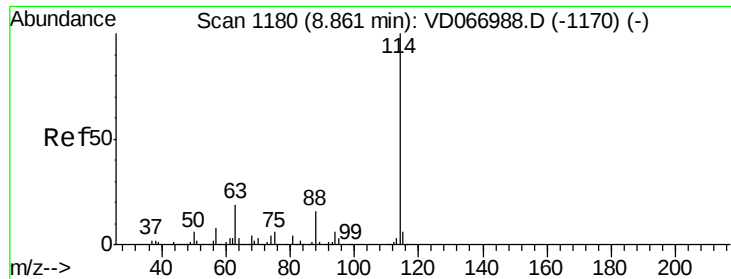
65 100

67 48.4 0.0 106.8



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

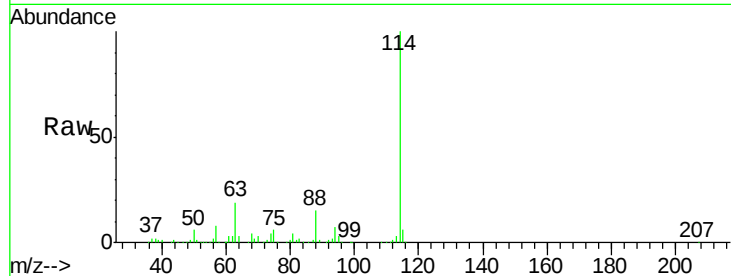




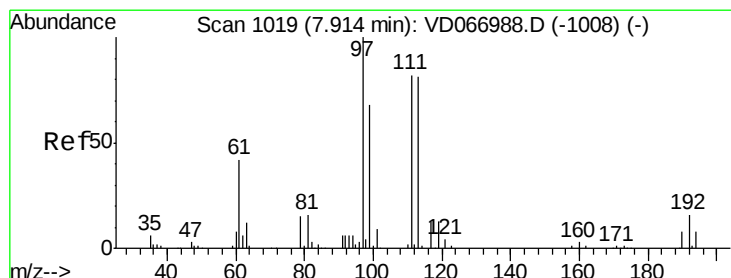
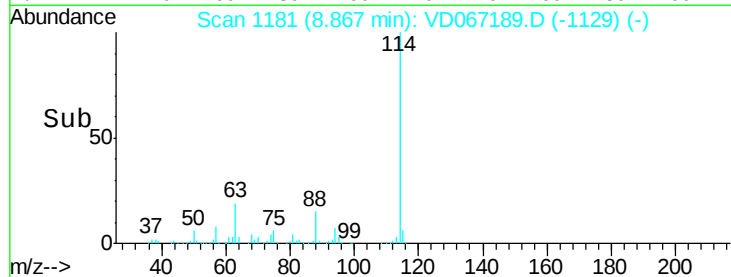
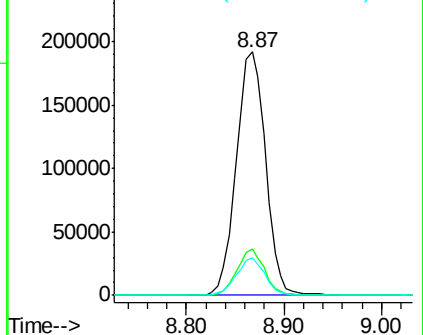
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.01 min
 Lab File: VD067189.D
 Acq: 08 Oct 2020 12:47

Instrument :
 MSVOA_D
 ClientSampleId :
 68-89RE

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.4
88	15.2	0.0	31.2

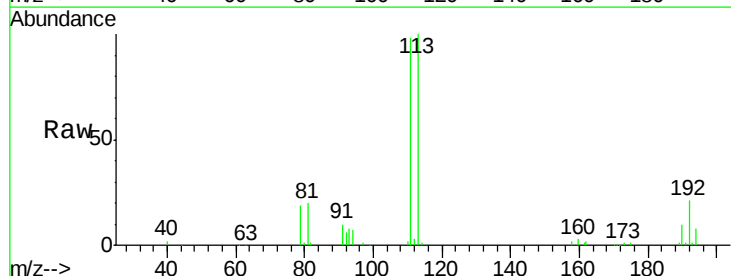


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

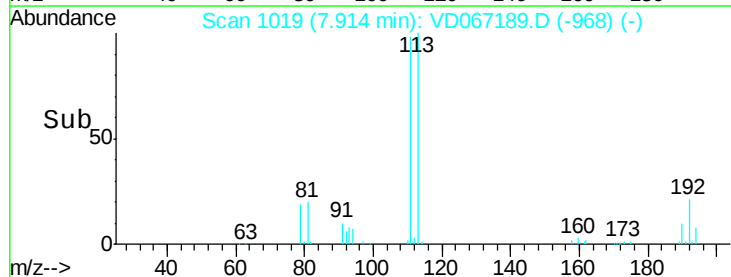
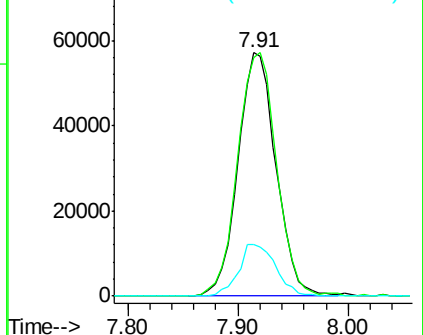


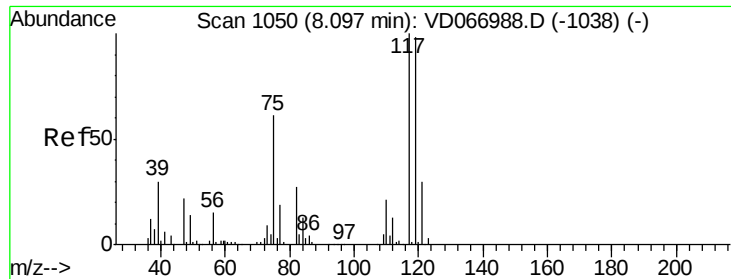
#35
 Dibromofluoromethane
 Concen: 52.818 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD067189.D
 Acq: 08 Oct 2020 12:47

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.0	124.4
192	20.9	15.5	23.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

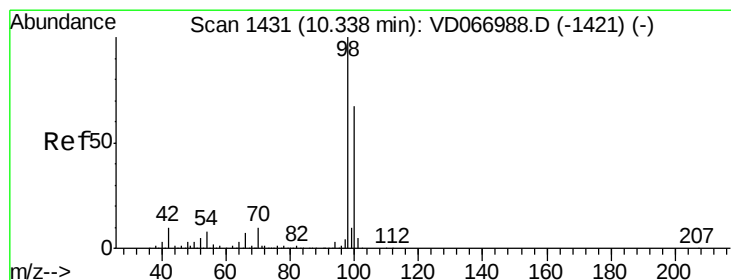
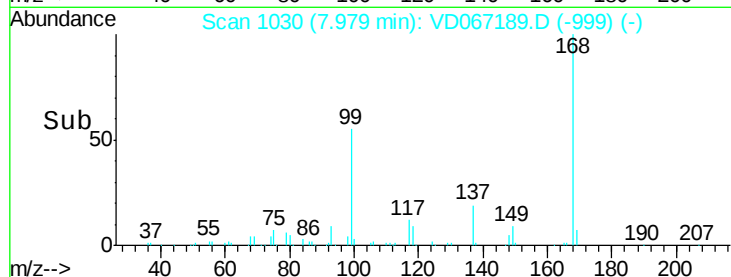
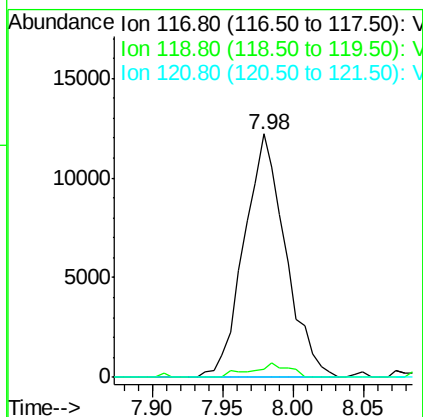
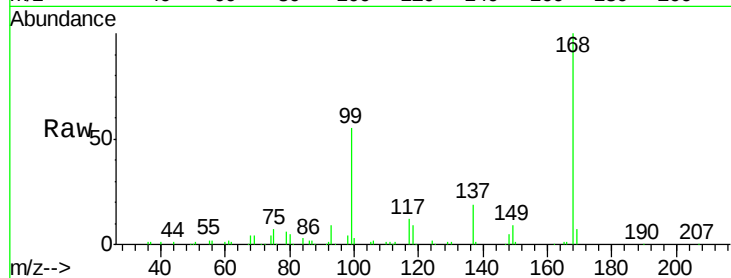




#38
Carbon Tetrachloride
Concen: 6.217 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD067189.D
Acq: 08 Oct 2020 12:47

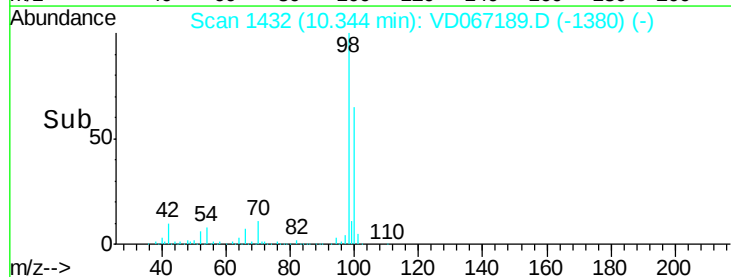
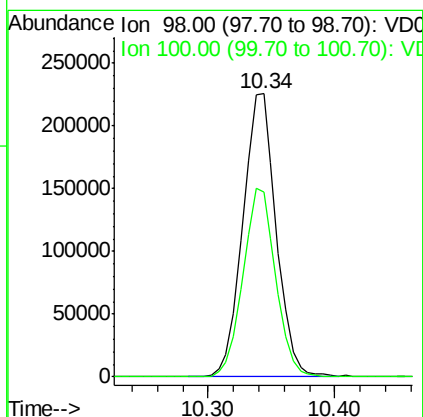
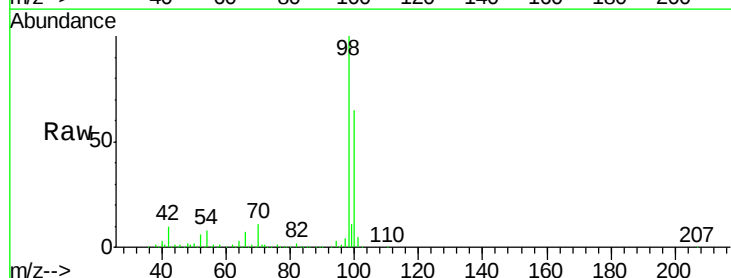
Instrument :
MSVOA_D
ClientSampleId :
68-89RE

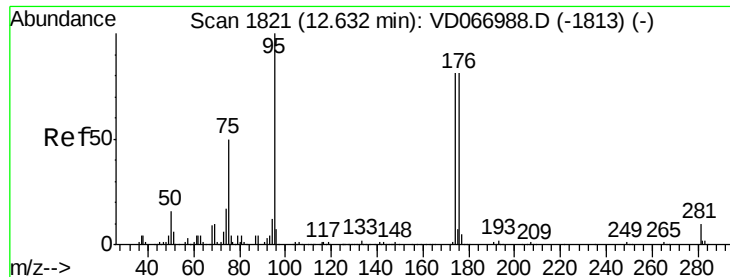
Tgt Ion:117 Resp: 25055
Ion Ratio Lower Upper
117 100
119 3.5 78.7 118.1#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 43.260 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD067189.D
Acq: 08 Oct 2020 12:47

Tgt Ion: 98 Resp: 412375
Ion Ratio Lower Upper
98 100
100 65.3 52.8 79.2





#62

4-Bromofluorobenzene

Concen: 34.704 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

68-89RE

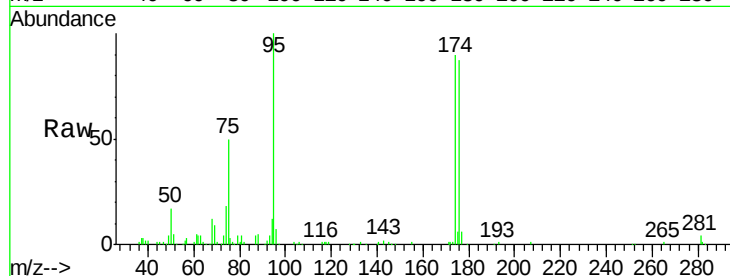
Tgt Ion: 95 Resp: 112304

Ion Ratio Lower Upper

95 100

174 90.2 0.0 167.6

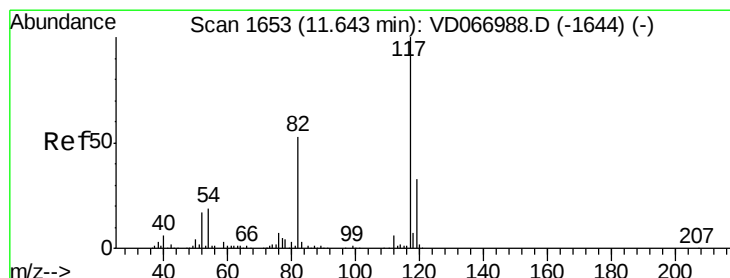
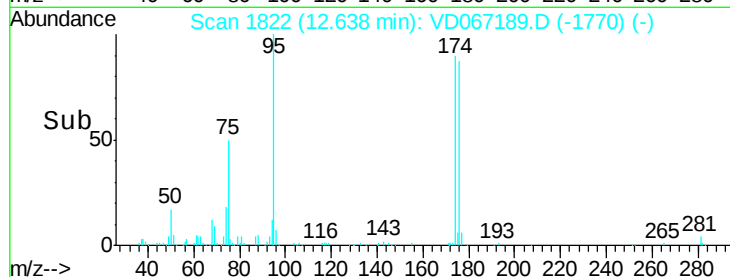
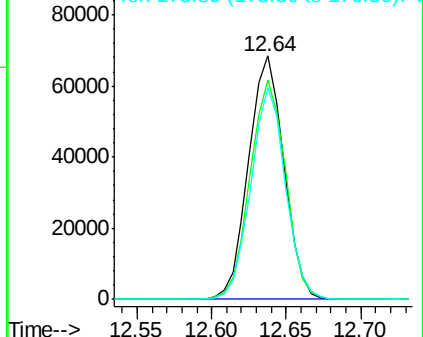
176 84.8 0.0 162.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

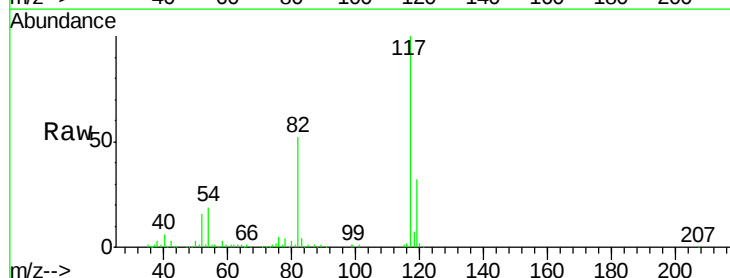
Tgt Ion: 117 Resp: 310681

Ion Ratio Lower Upper

117 100

82 51.9 42.6 63.8

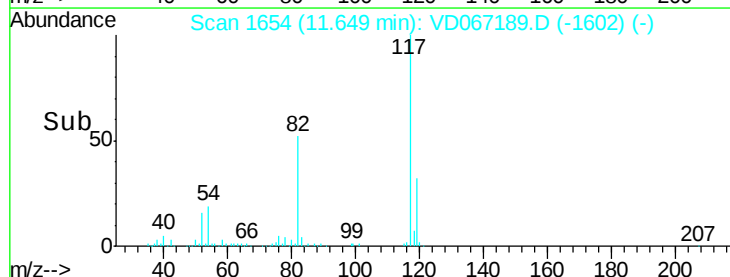
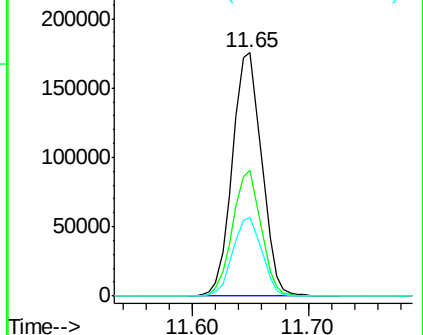
119 32.5 26.3 39.5

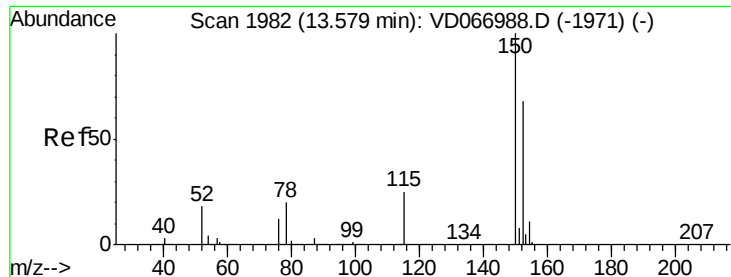


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

68-89RE

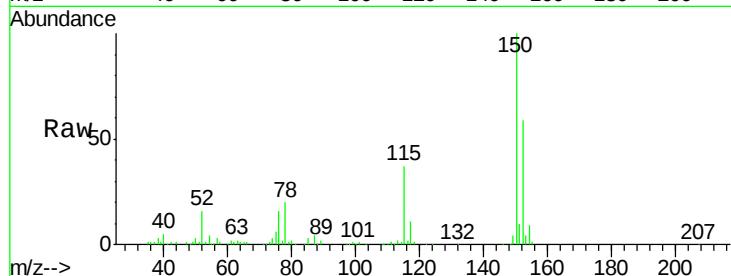
Tgt Ion:152 Resp: 114072

Ion Ratio Lower Upper

152 100

115 60.8 29.6 88.8

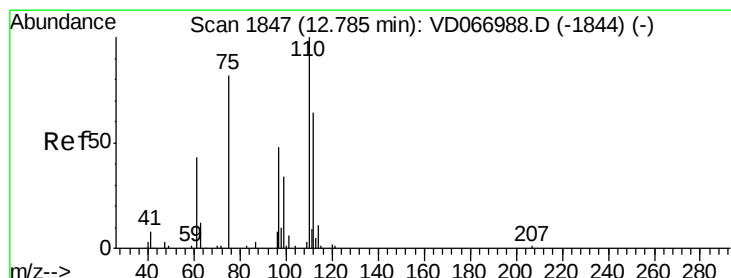
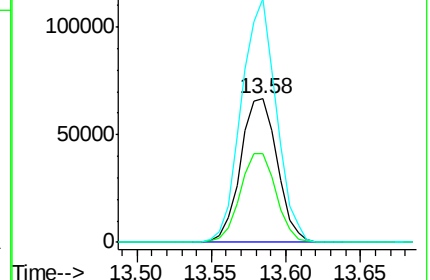
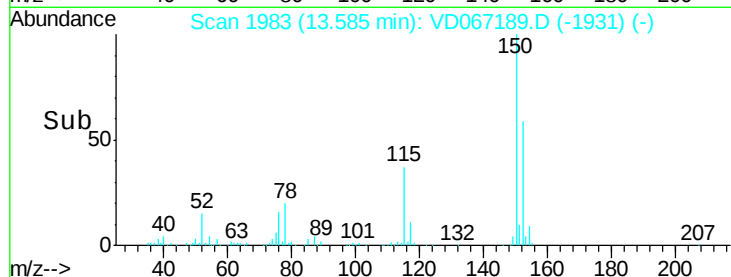
150 161.3 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 57.826 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067189.D

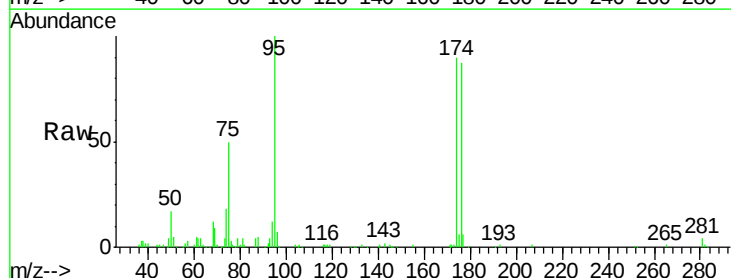
Acq: 08 Oct 2020 12:47

Tgt Ion: 75 Resp: 57456

Ion Ratio Lower Upper

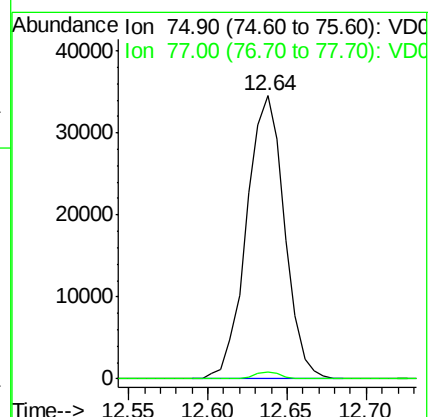
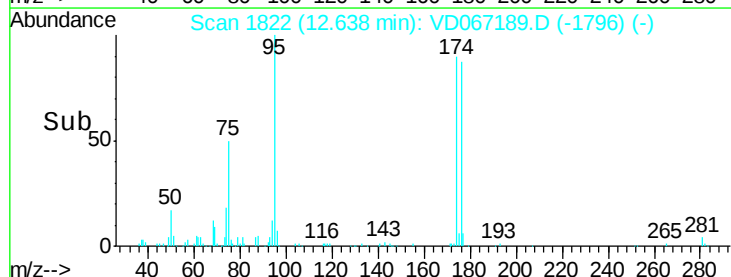
75 100

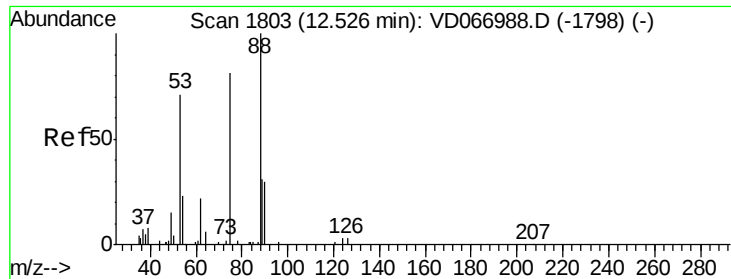
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 144.167 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

68-89RE

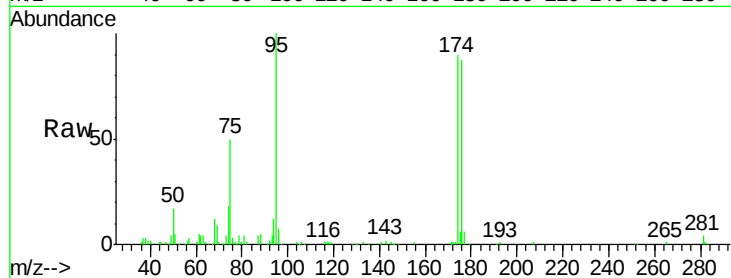
Tgt Ion: 75 Resp: 57456

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

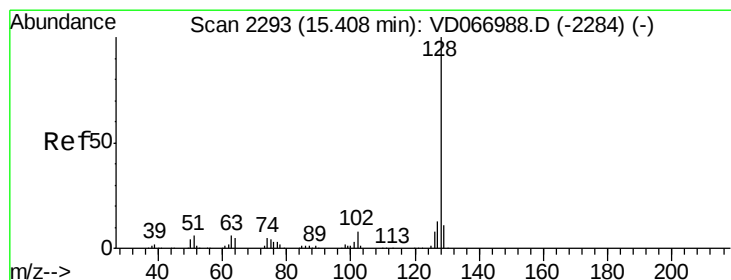
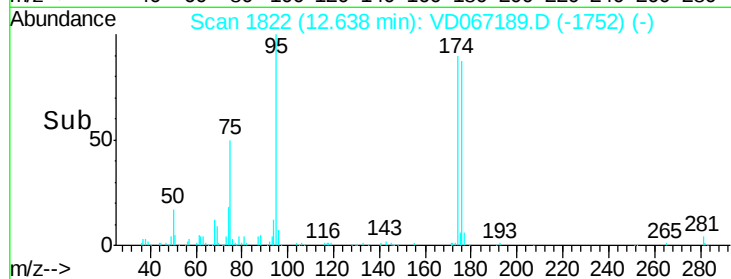
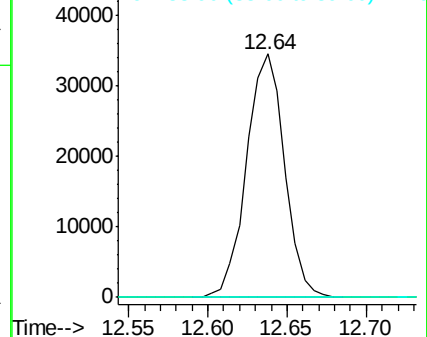
89 0.0 38.9 58.3#



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



#95

Naphthalene

Concen: 1.695 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD067189.D

Acq: 08 Oct 2020 12:47

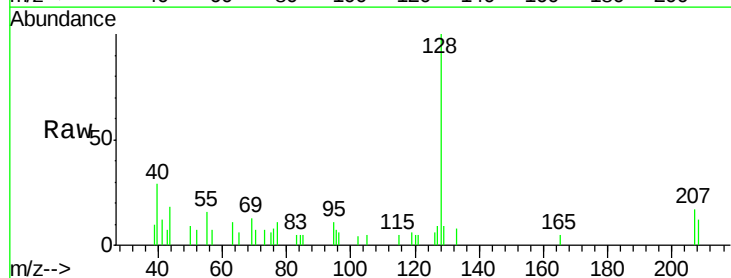
Tgt Ion: 128 Resp: 5819

Ion Ratio Lower Upper

128 100

127 15.1 10.3 15.5

129 12.8 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

