

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090420\
 Data File : VD066569.D
 Acq On : 04 Sep 2020 18:02
 Operator : VA/SY
 Sample : L3923-01
 Misc : 5.03G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB181-GW-858-860

Quant Time: Sep 14 01:45:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	318272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	565933	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	515308	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	193395	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	214929	55.81	ug/l	0.00
Spiked Amount			Recovery	=	111.62%	
35) Dibromofluoromethane	7.91	113	199159	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
50) Toluene-d8	10.34	98	695671	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.63	95	218884	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	

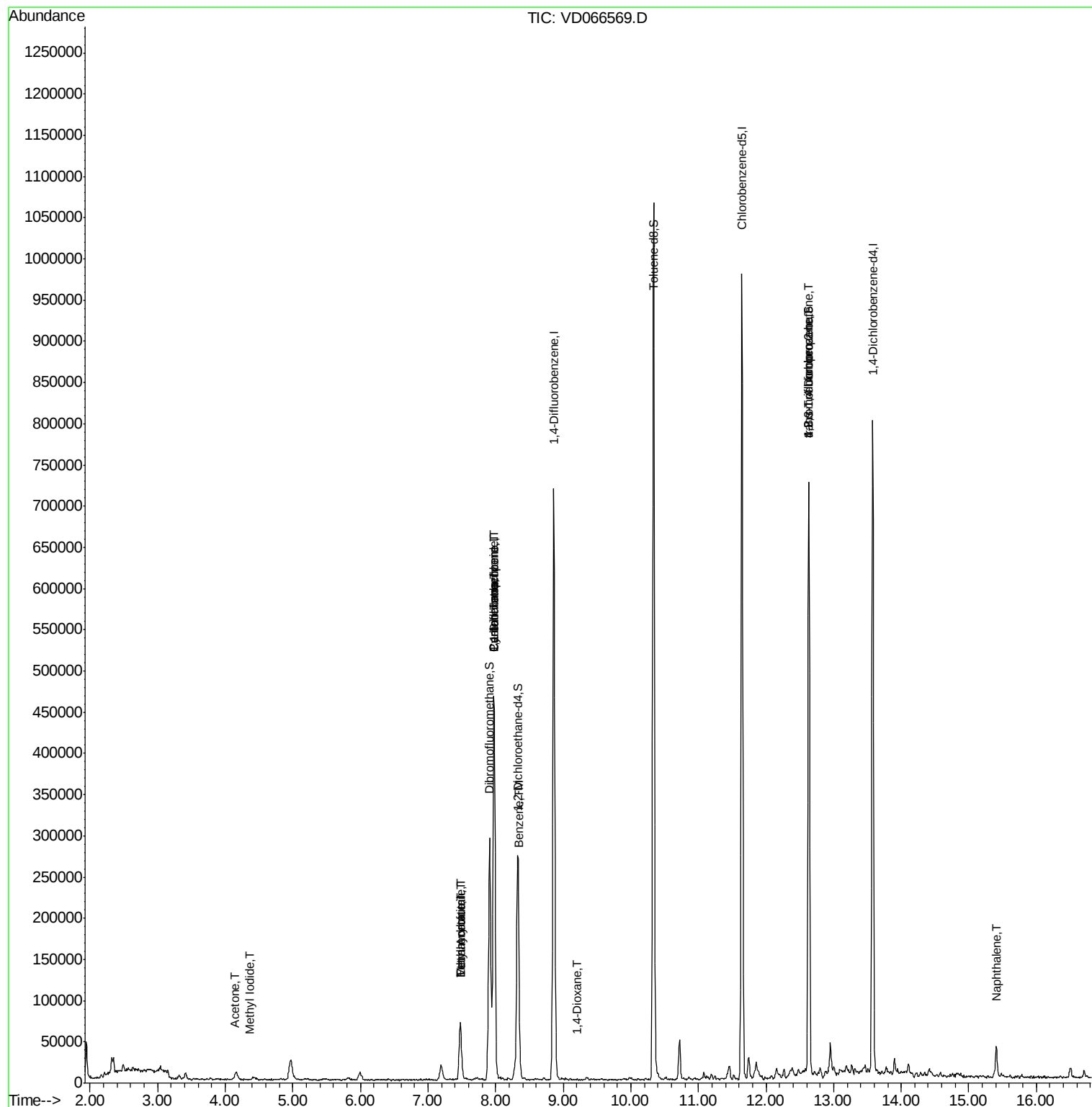
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	354	Below Cal	#	46
5) Bromomethane	2.77	94	985	Below Cal	#	51
10) Methyl Iodide	4.36	142	58	4.040	ug/l #	35
11) Tert butyl alcohol	5.21	59	672	Below Cal	#	74
16) Acetone	4.15	43	8105	11.439	ug/l	98
20) Methylene Chloride	4.96	84	16856	Below Cal		95
29) Tetrahydrofuran	7.48	42	11110	18.756	ug/l #	35
31) Cyclohexane	7.97	56	10228	1.628	ug/l #	39
36) 1,1-Dichloropropene	7.97	75	29301	4.975	ug/l #	50
37) Ethyl Acetate	7.48	43	58277	24.849	ug/l #	68
38) Carbon Tetrachloride	7.97	117	34875	5.602	ug/l #	17
40) Benzene	8.34	78	21885	1.357	ug/l #	86
41) Methacrylonitrile	7.47	41	38660	34.055	ug/l #	43
49) 1,4-Dioxane	9.21	88	53	2.159	ug/l #	23
76) 1,2,3-Trichloropropane	12.63	75	121770	65.470	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	121770	152.849	ug/l #	7
95) Naphthalene	15.41	128	33376	5.745	ug/l	96

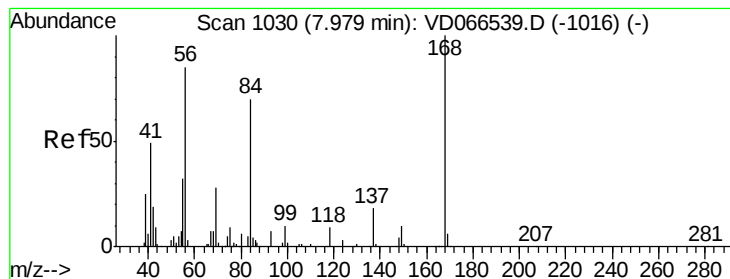
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

Instrument :

MSVOA_D

ClientSampleId :

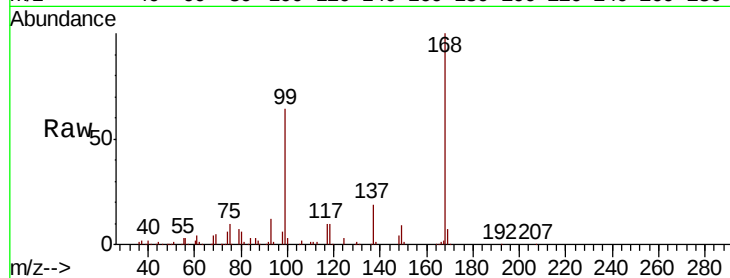
BP-VPB181-GW-858-860

Tot Ion:168 Resp: 318272

Ion Ratio Lower Upper

168 100

99 63.6 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

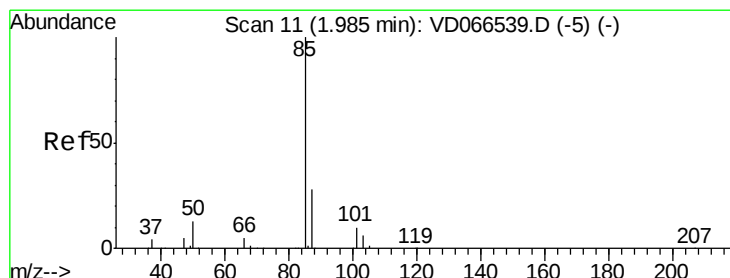
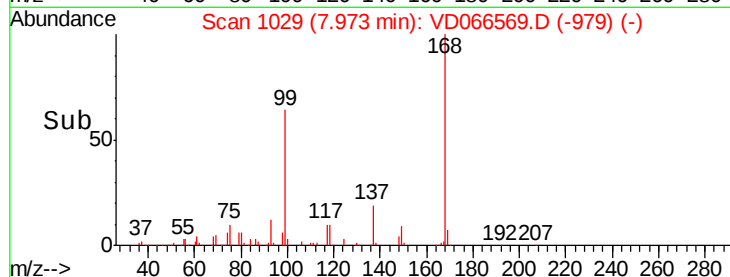
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066569.D

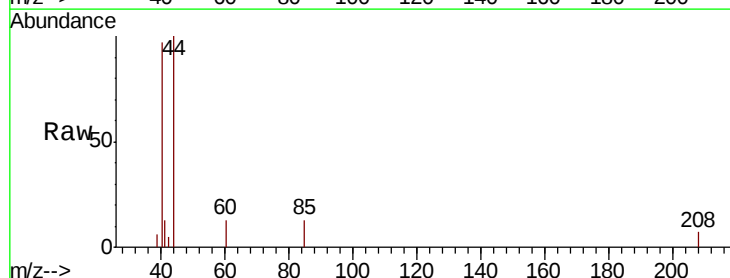
Acq: 04 Sep 2020 18:02

Tgt Ion: 85 Resp: 354

Ion Ratio Lower Upper

85 100

87 0.0 14.2 42.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

500

400

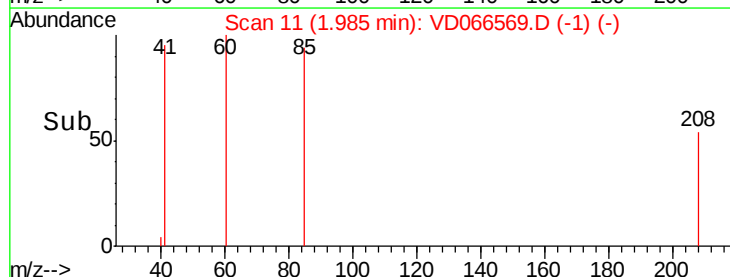
300

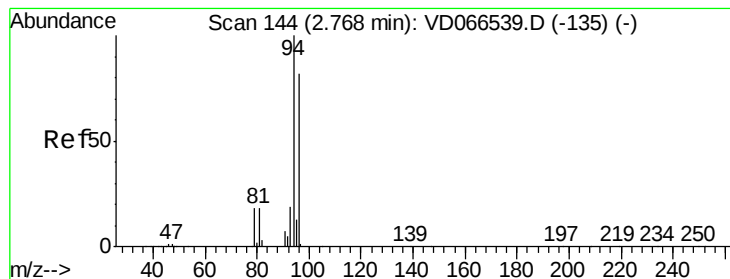
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

Instrument :

MSVOA_D

ClientSampleId :

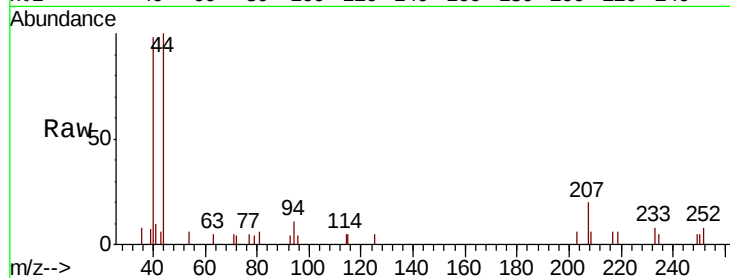
BP-VPB181-GW-858-860

Tot Ion: 94 Resp: 985

Ion Ratio Lower Upper

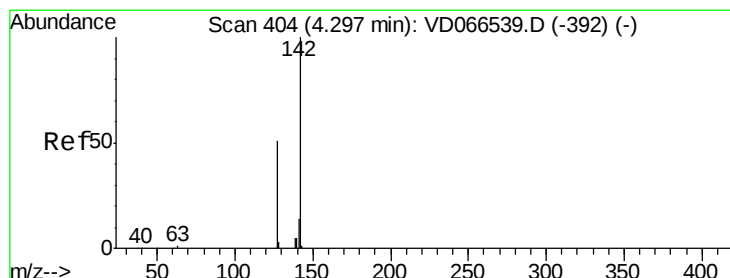
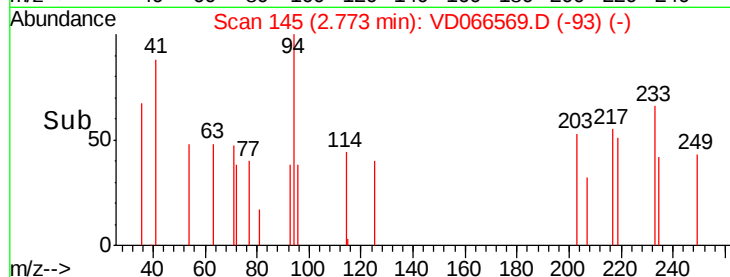
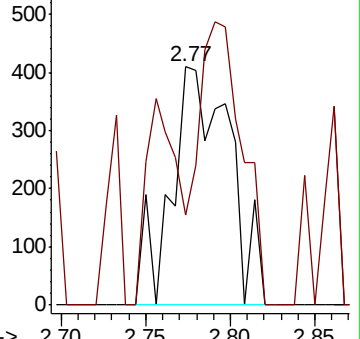
94 100

96 37.9 65.2 97.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 4.040 ug/l

RT: 4.36 min Scan# 414

Delta R.T. 0.06 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

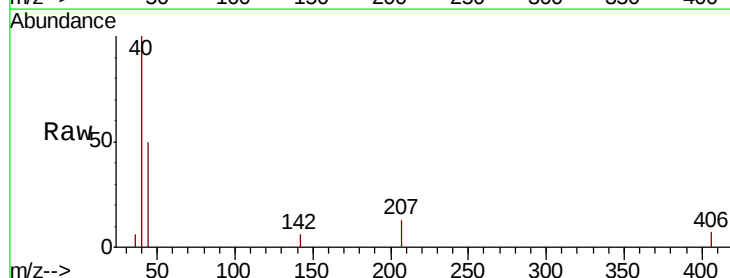
Tgt Ion: 142 Resp: 58

Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

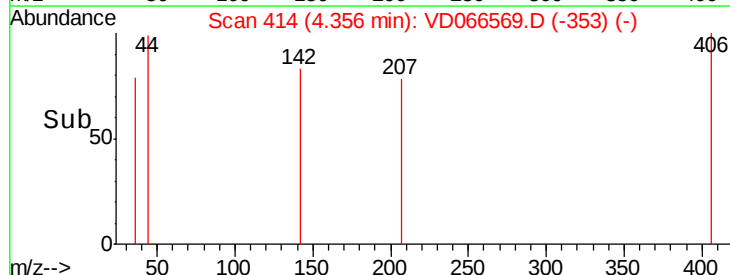
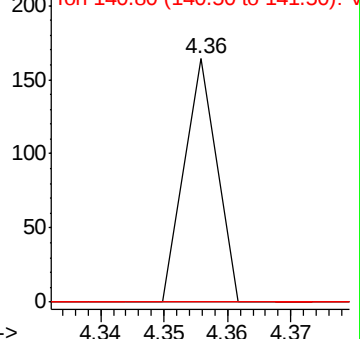
141 0.0 12.2 18.4#

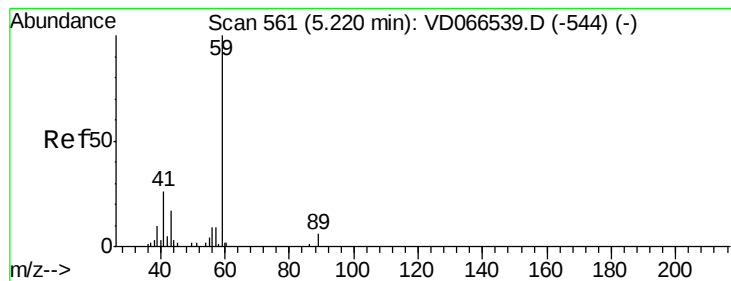


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



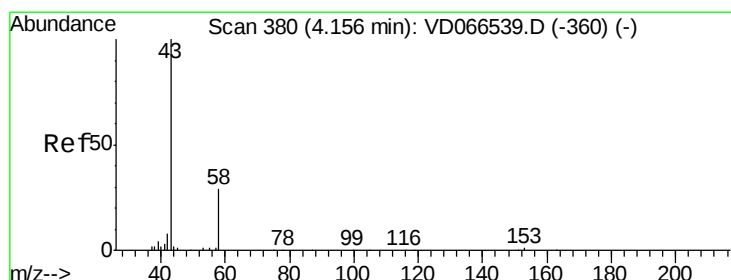
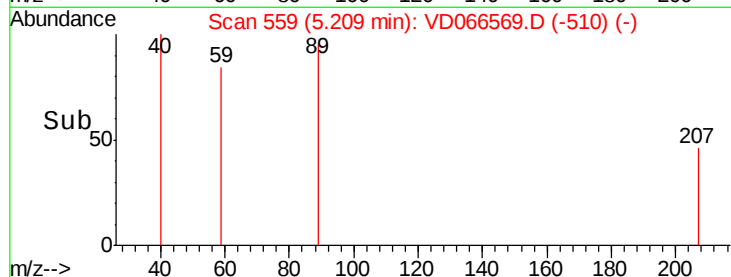
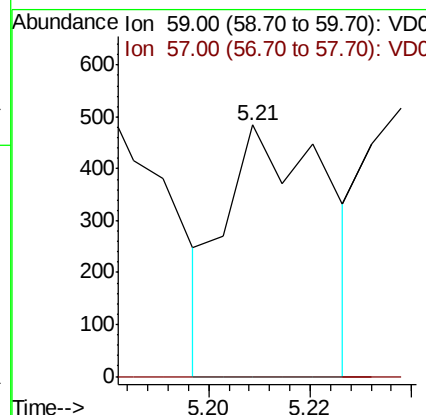
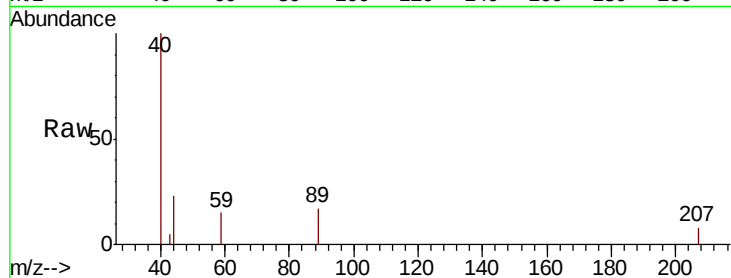


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.21 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD066569.D
 Acq: 04 Sep 2020 18:02

Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB181-GW-858-860

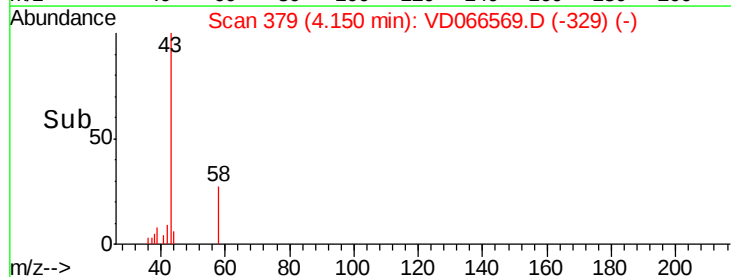
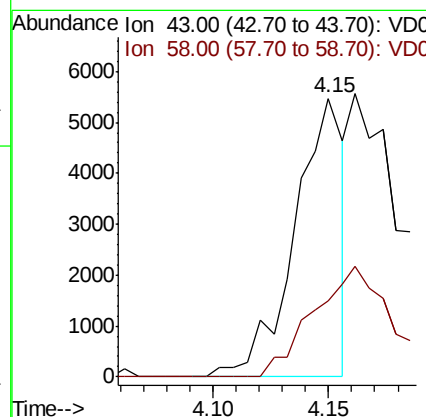
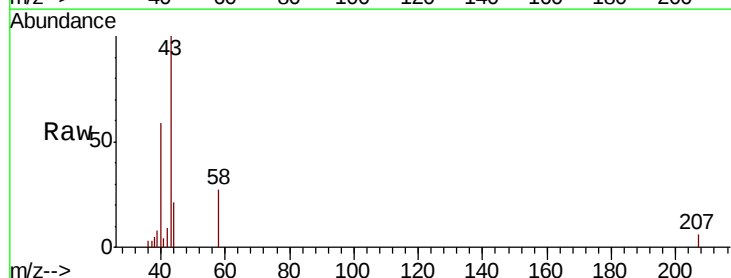
Tot Ion: 59 Resp: 672
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

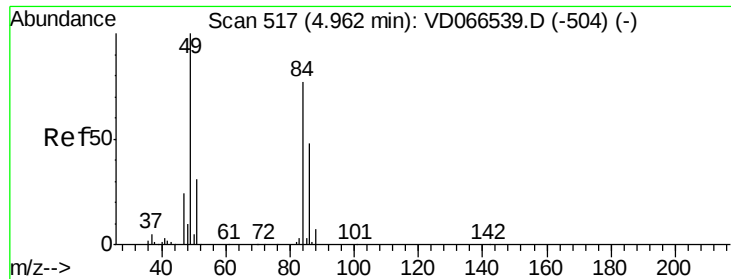


#16

Acetone
 Concen: 11.439 ug/l
 RT: 4.15 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VD066569.D
 Acq: 04 Sep 2020 18:02

Tgt Ion: 43 Resp: 8105
 Ion Ratio Lower Upper
 43 100
 58 27.3 22.9 34.3





#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB181-GW-858-860

Tot Ion: 84 Resp: 16856

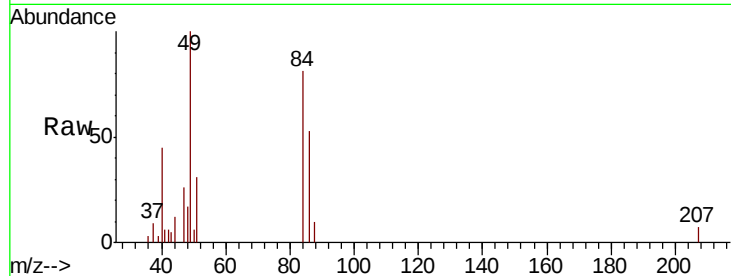
Ion Ratio Lower Upper

84 100

49 123.3 104.3 156.5

51 38.4 32.2 48.4

86 65.1 50.0 75.0

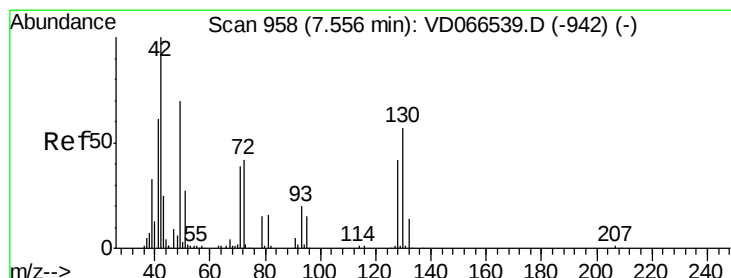
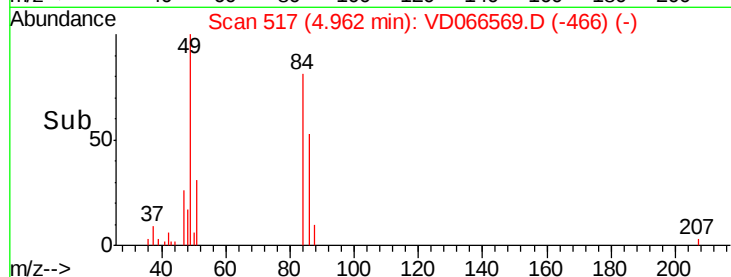
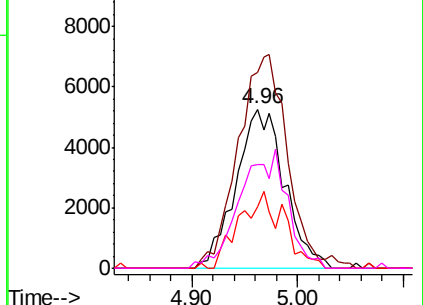


Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#29

Tetrahydrofuran

Concen: 18.756 ug/l

RT: 7.48 min Scan# 945

Delta R.T. -0.08 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

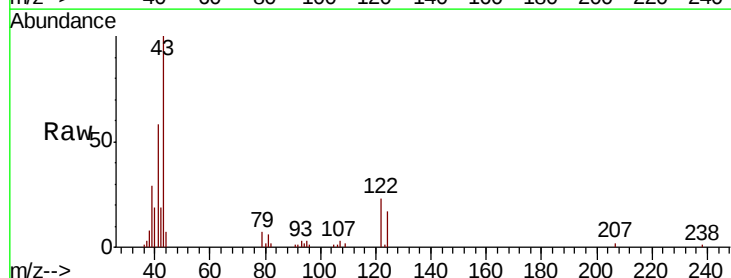
Tgt Ion: 42 Resp: 11110

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.0#

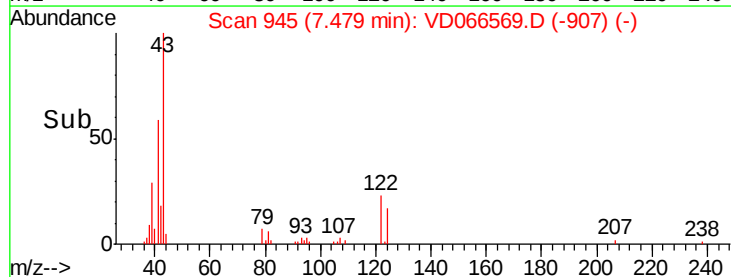
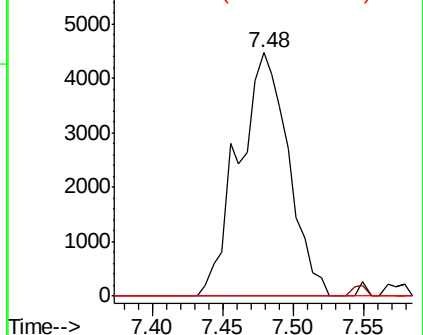
71 0.0 31.9 47.9#

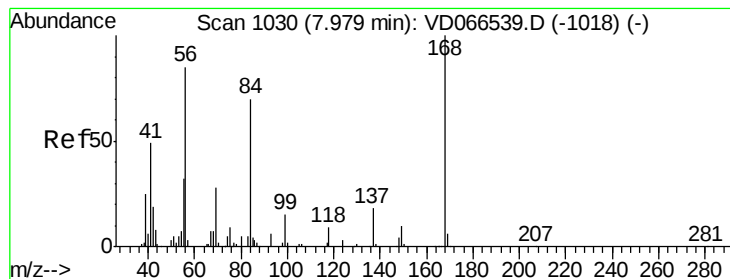


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.628 ug/l

RT: 7.97 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB181-GW-858-860

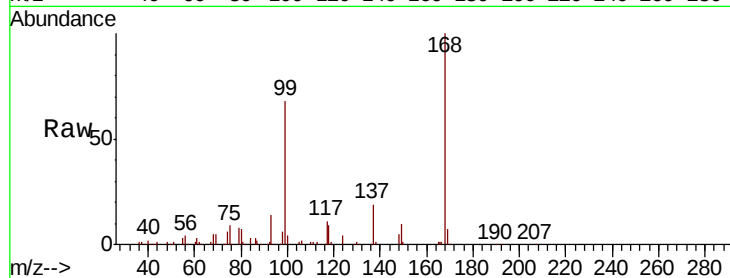
Tot Ion: 56 Resp: 10228

Ion Ratio Lower Upper

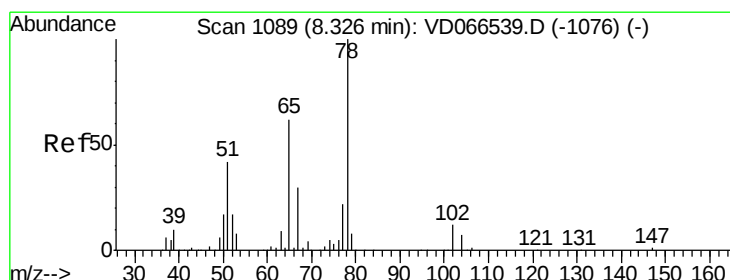
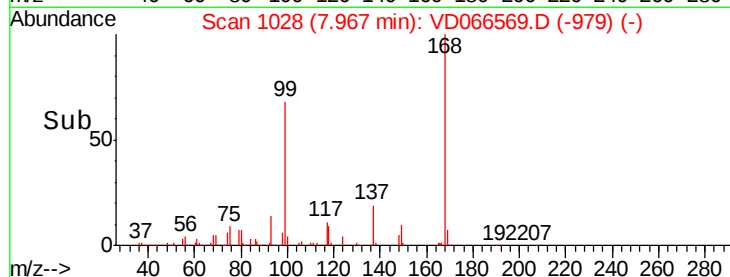
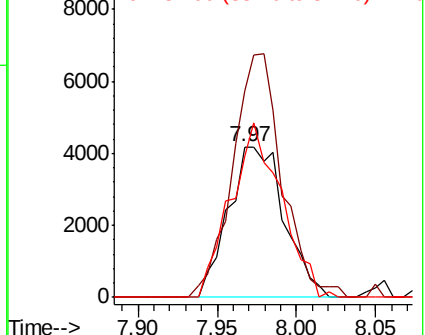
56 100

69 137.1 26.3 39.5#

84 93.6 66.1 99.1



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: 55.814 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VD066569.D

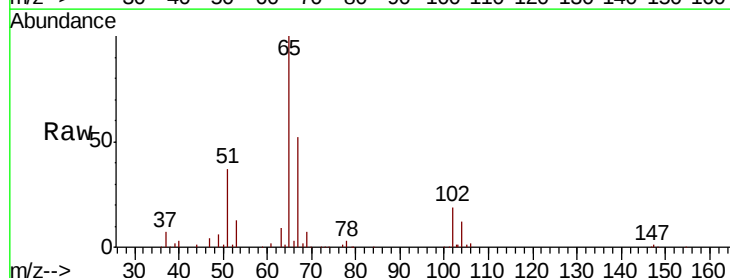
Acq: 04 Sep 2020 18:02

Tgt Ion: 65 Resp: 214929

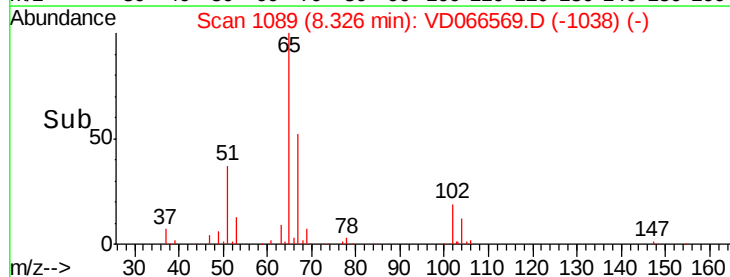
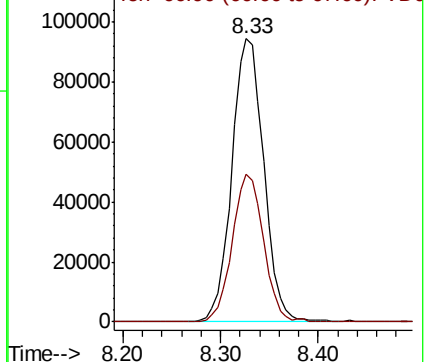
Ion Ratio Lower Upper

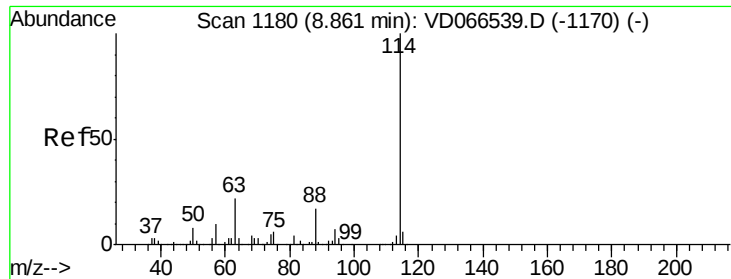
65 100

67 51.1 0.0 102.8



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: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

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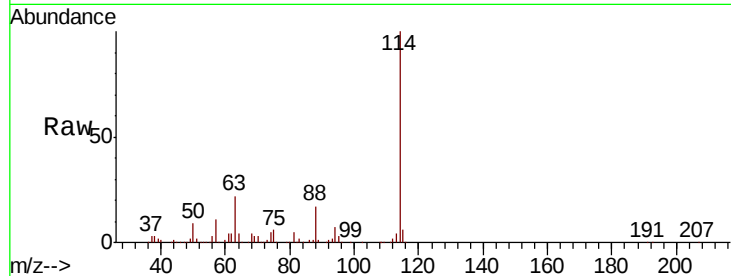
Tot Ion:114 Resp: 565933

Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.2

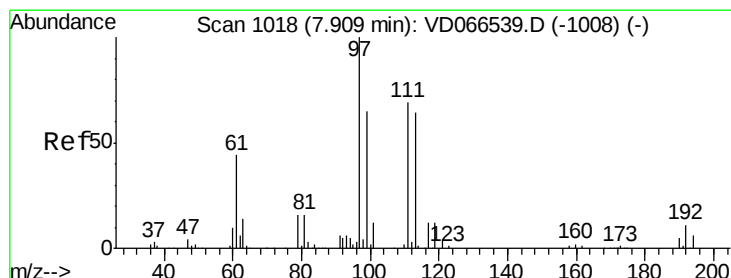
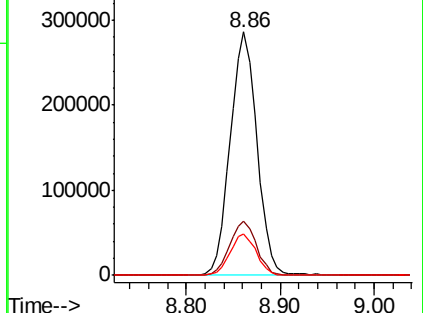
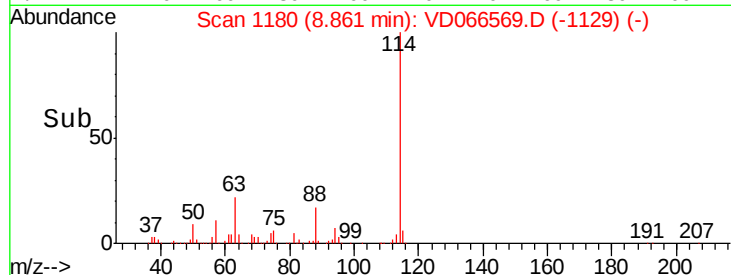
88 16.8 0.0 33.2



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: 52.165 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

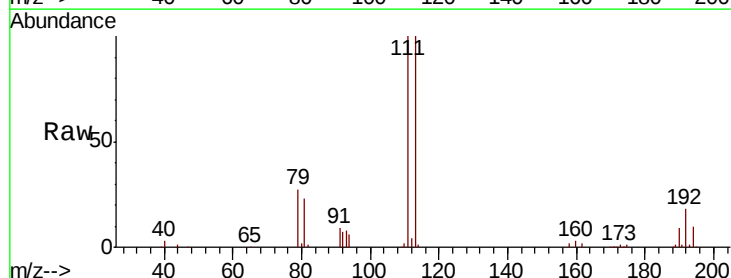
Tgt Ion:113 Resp: 199159

Ion Ratio Lower Upper

113 100

111 102.0 83.2 124.8

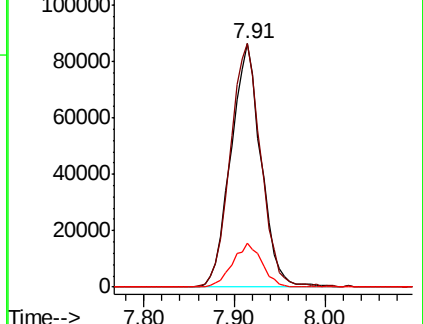
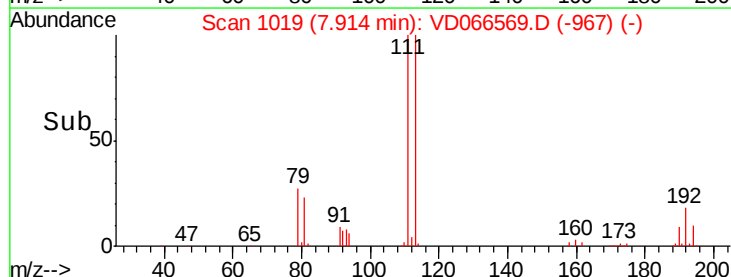
192 17.7 13.7 20.5

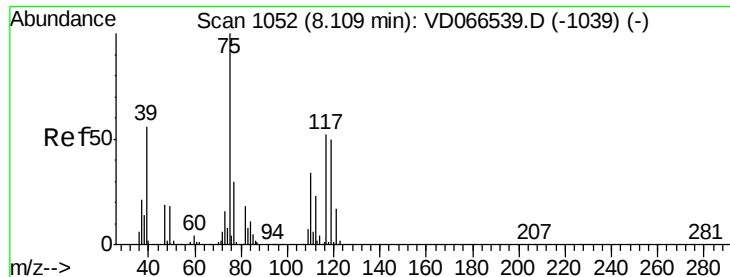


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.975 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066569.D

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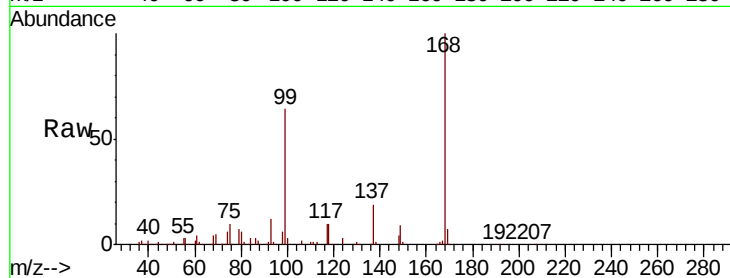
Tot Ion: 75 Resp: 29301

Ion Ratio Lower Upper

75 100

110 9.8 17.3 52.0#

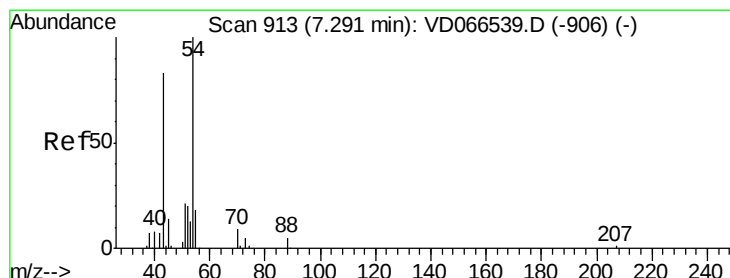
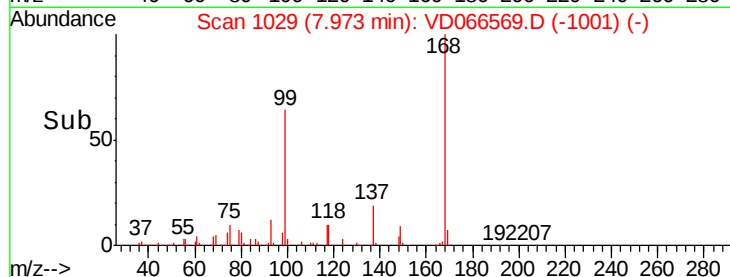
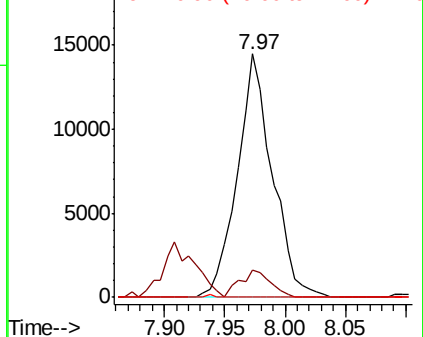
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 24.849 ug/l

RT: 7.48 min Scan# 945

Delta R.T. 0.19 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

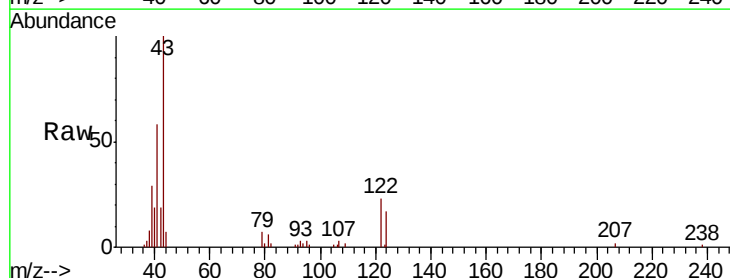
Tgt Ion: 43 Resp: 58277

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.8#

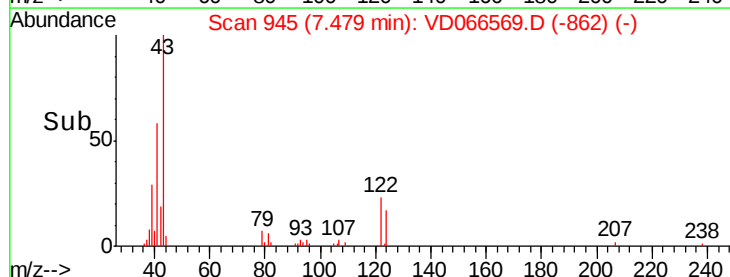
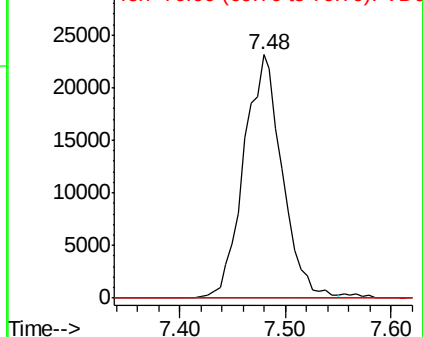
70 0.0 7.9 11.9#

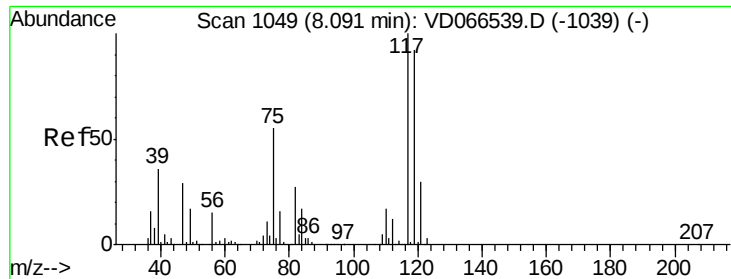


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.602 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB181-GW-858-860

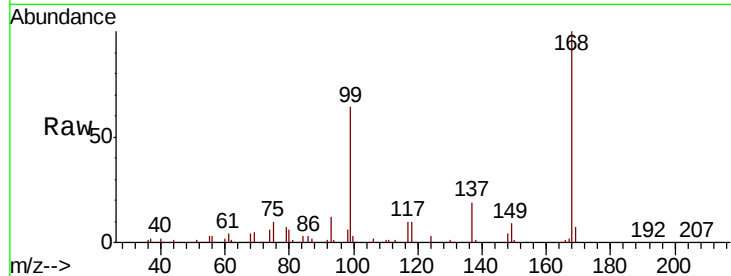
Tot Ion:117 Resp: 34875

Ion Ratio Lower Upper

117 100

119 4.3 73.9 110.9#

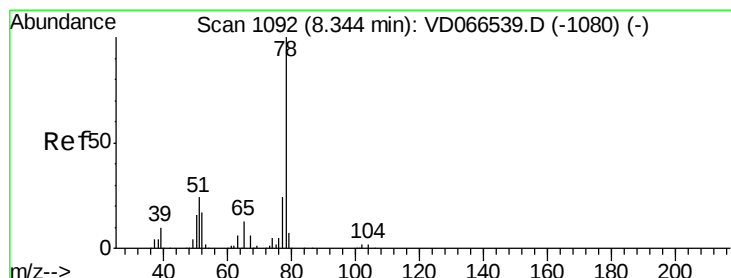
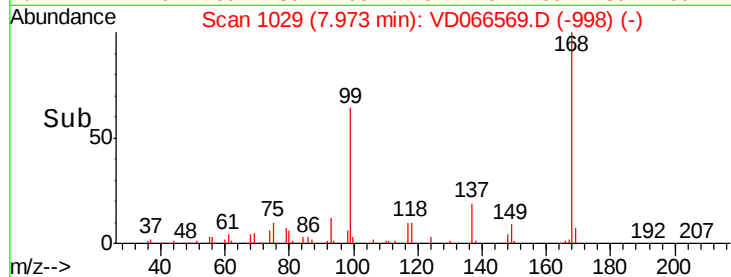
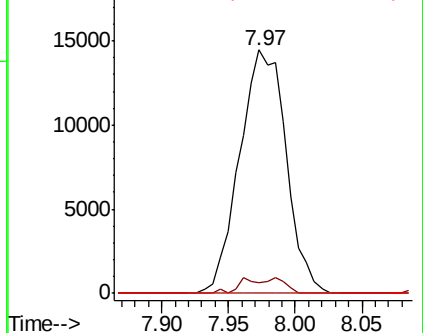
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 1.357 ug/l

RT: 8.34 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VD066569.D

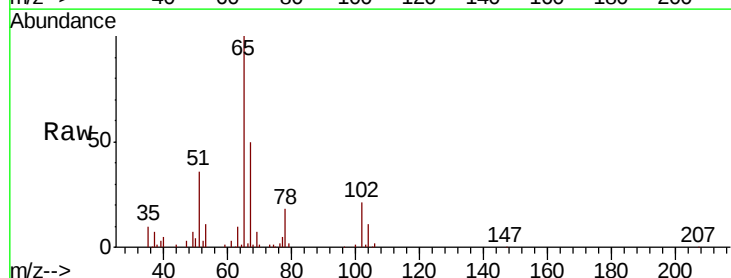
Acq: 04 Sep 2020 18:02

Tgt Ion: 78 Resp: 21885

Ion Ratio Lower Upper

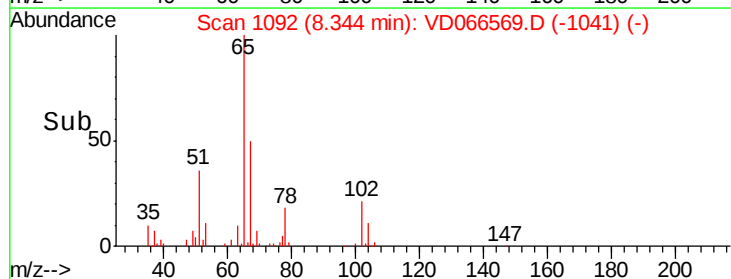
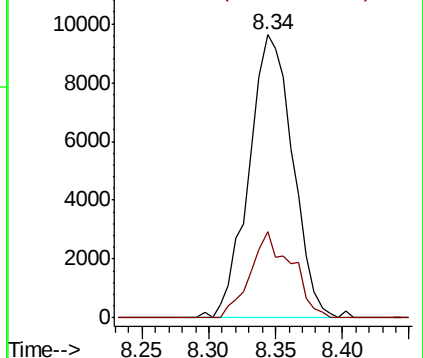
78 100

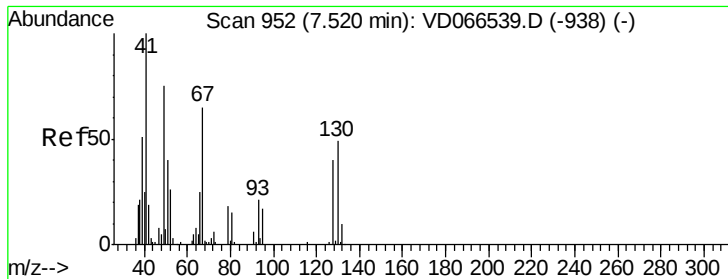
77 30.6 19.1 28.7#



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V

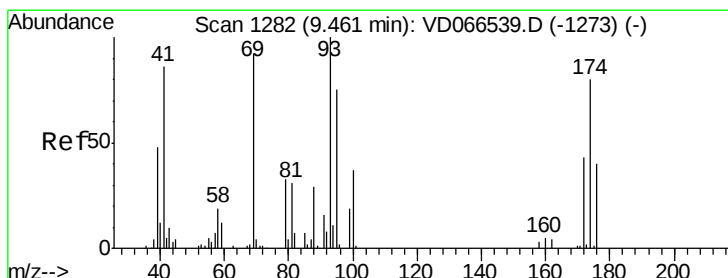
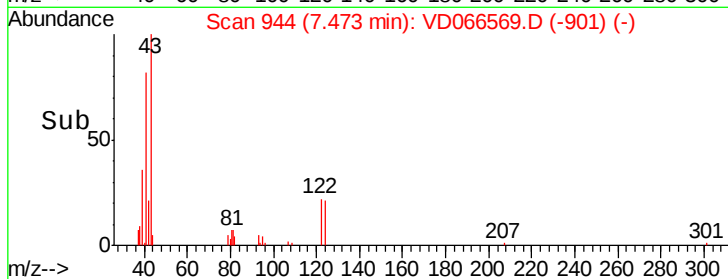
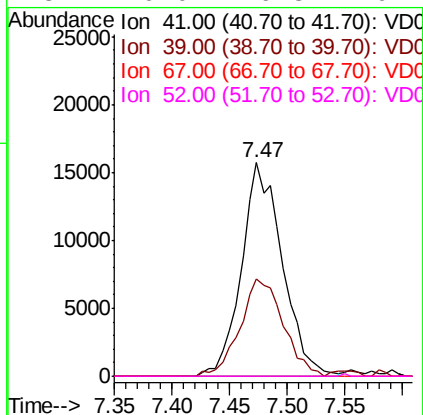
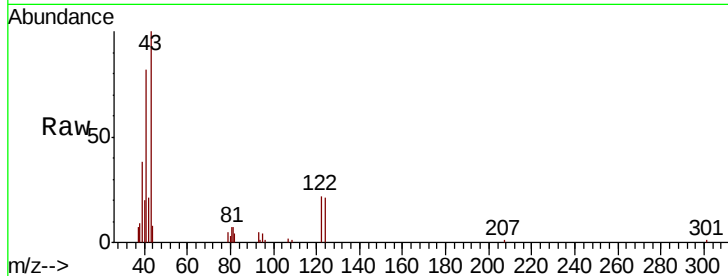




#41
Methacrylonitrile
Concen: 34.055 ug/l
RT: 7.47 min Scan# 944
Delta R.T. -0.05 min
Lab File: VD066569.D
Acq: 04 Sep 2020 18:02

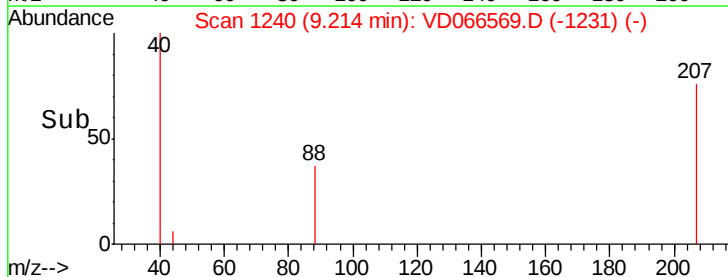
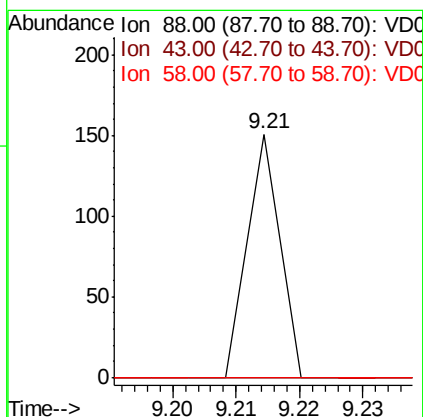
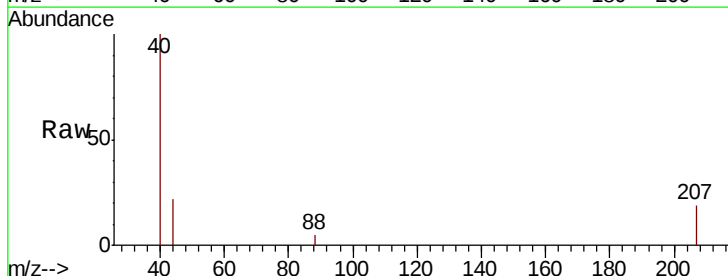
Instrument :
MSVOA_D
ClientSampleId :
BP-VPB181-GW-858-860

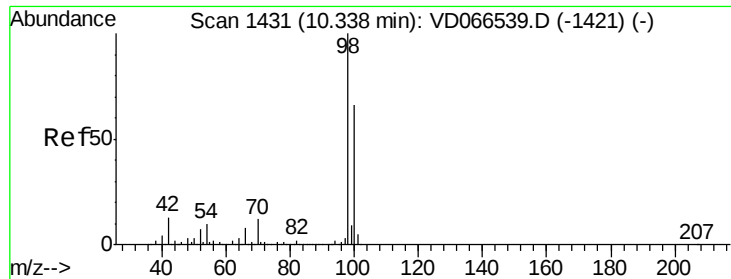
Tot Ion:	41	Resp:	38660
Ion	Ratio	Lower	Upper
41	100		
39	48.2	53.6	80.4#
67	0.0	59.2	88.8#
52	0.0	26.8	40.2#



#49
1,4-Dioxane
Concen: 2.159 ug/l
RT: 9.21 min Scan# 1240
Delta R.T. -0.25 min
Lab File: VD066569.D
Acq: 04 Sep 2020 18:02

Tgt Ion:	88	Resp:	53
Ion	Ratio	Lower	Upper
88	100		
43	0.0	28.3	42.5#
58	0.0	56.1	84.1#





#50

Toluene-d8

Concen: 50.982 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

Instrument :

MSVOA_D

ClientSampleId :

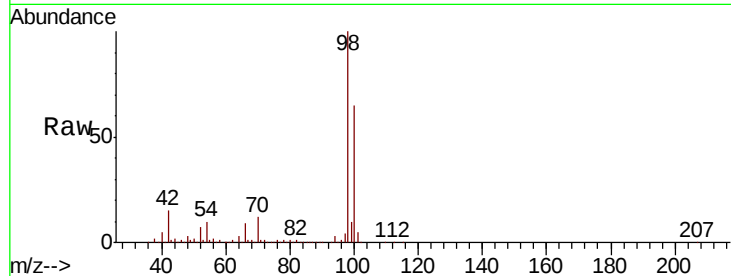
BP-VPB181-GW-858-860

Tot Ion: 98 Resp: 695671

Ion Ratio Lower Upper

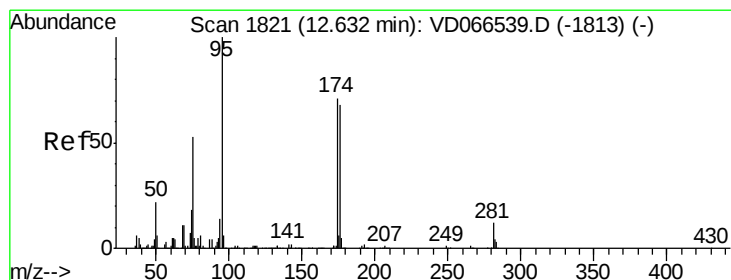
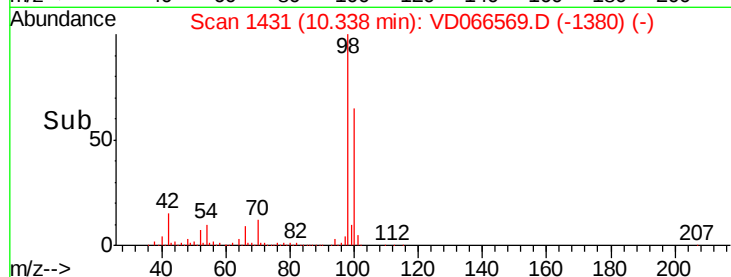
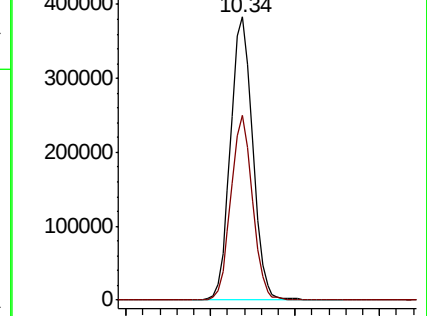
98 100

100 63.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 48.375 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

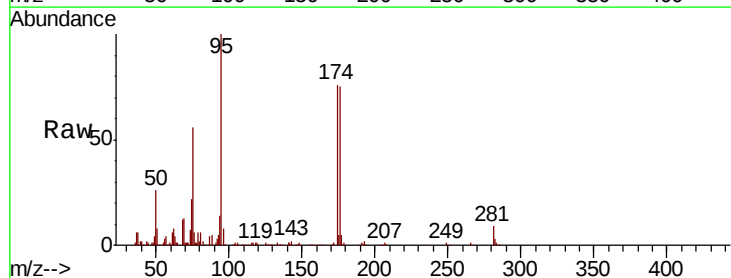
Tgt Ion: 95 Resp: 218884

Ion Ratio Lower Upper

95 100

174 73.6 0.0 155.8

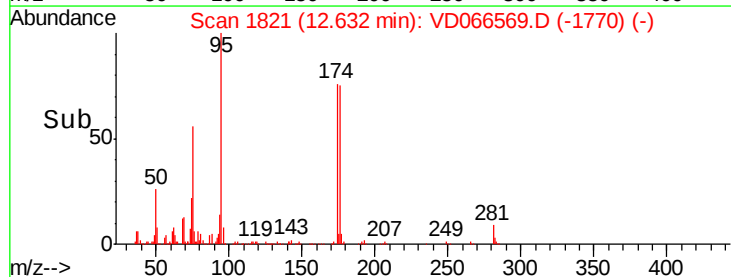
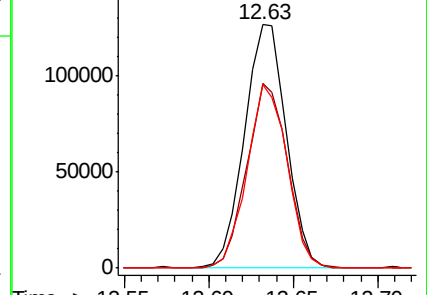
176 72.0 0.0 148.6

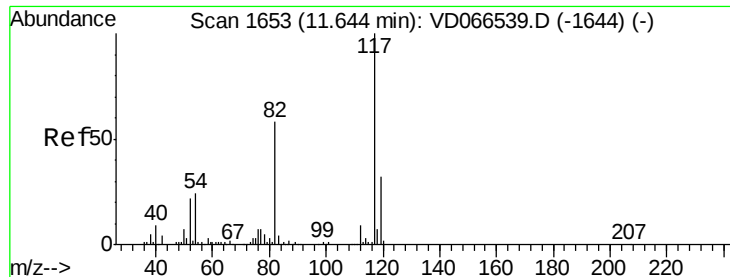


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

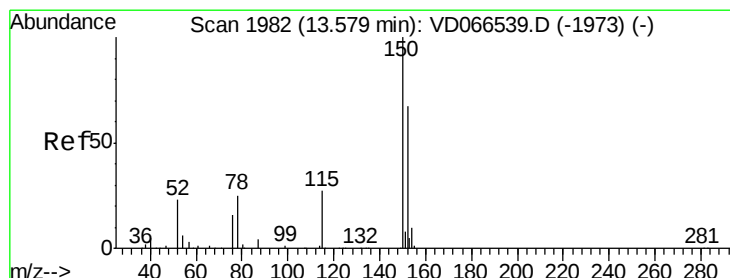
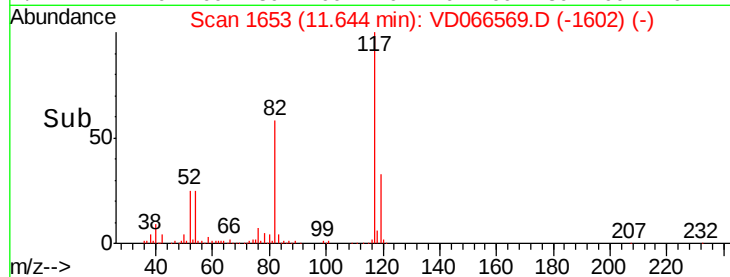
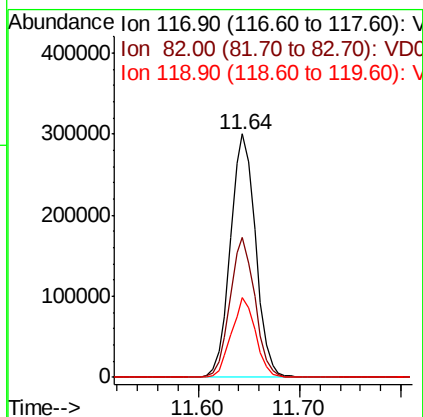
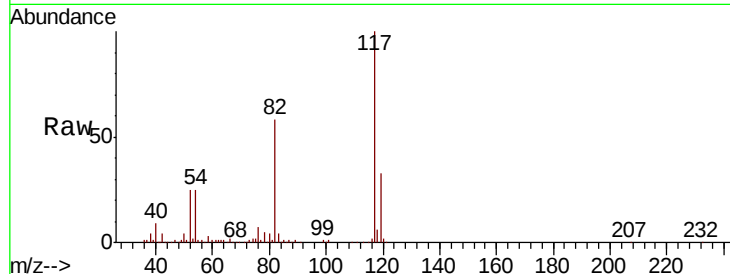




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066569.D
Acq: 04 Sep 2020 18:02

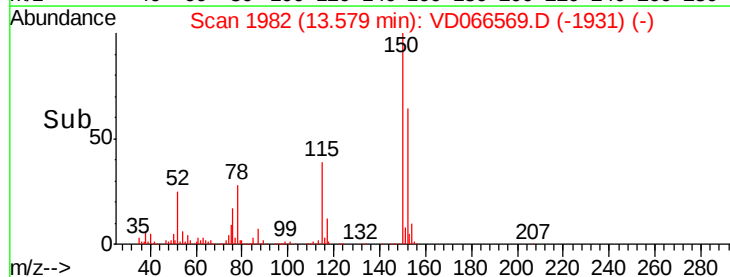
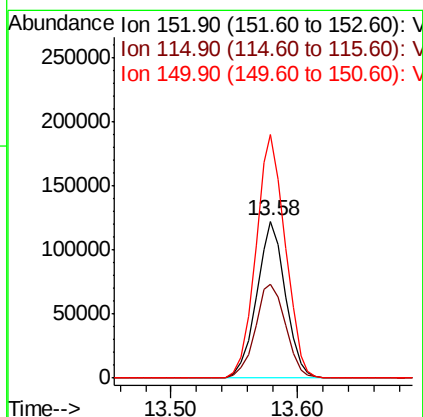
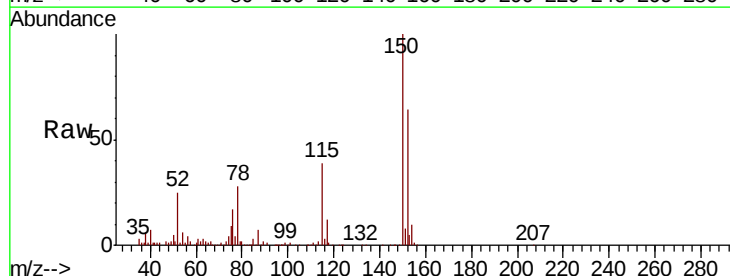
Instrument :
MSVOA_D
ClientSampleId :
BP-VPB181-GW-858-860

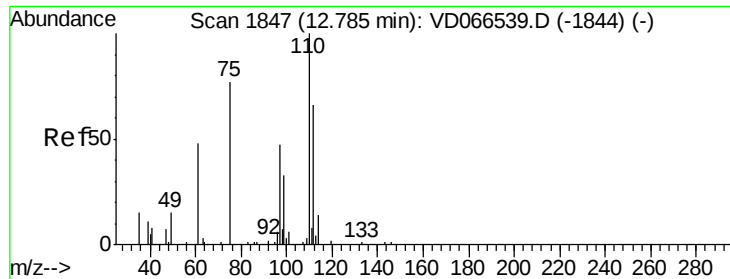
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.2	69.2
119	32.9	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066569.D
Acq: 04 Sep 2020 18:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.4	30.4	91.2
150	158.5	0.0	345.8





#76

1,2,3-Trichloropropane

Concen: 65.470 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

Instrument :

MSVOA_D

ClientSampleId :

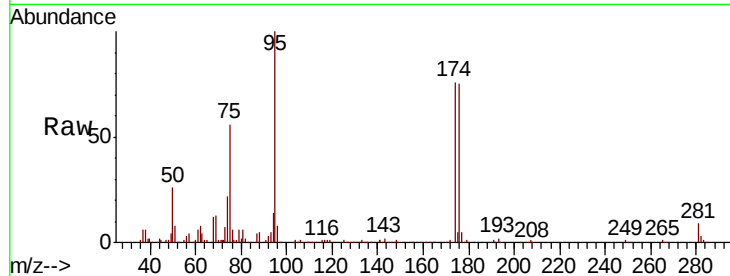
BP-VPB181-GW-858-860

Tot Ion: 75 Resp: 121770

Ion Ratio Lower Upper

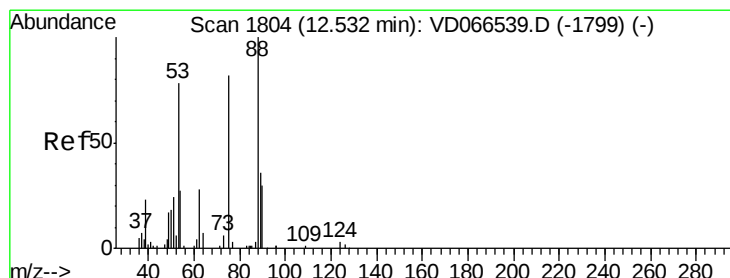
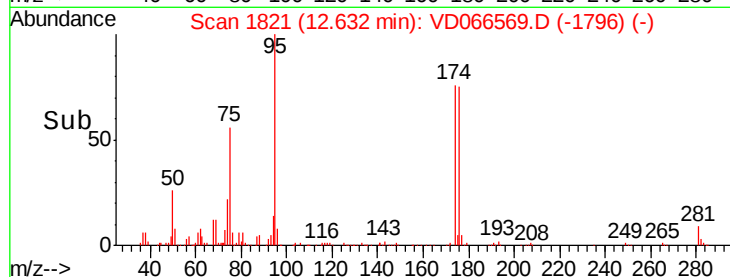
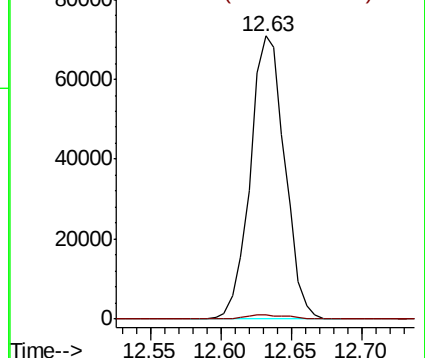
75 100

77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 152.849 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066569.D

Acq: 04 Sep 2020 18:02

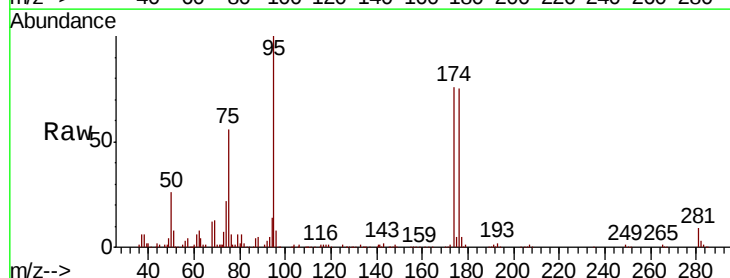
Tgt Ion: 75 Resp: 121770

Ion Ratio Lower Upper

75 100

53 0.4 87.0 130.4#

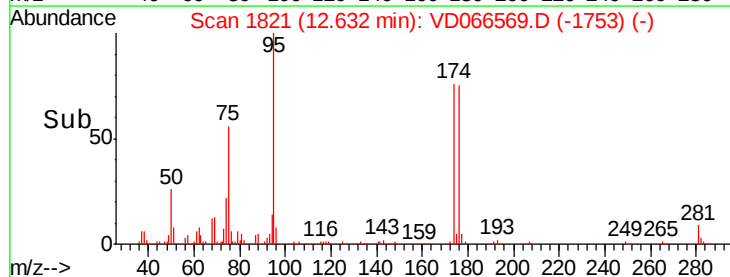
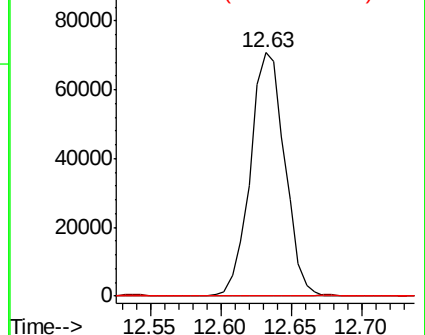
89 0.1 37.1 55.7#

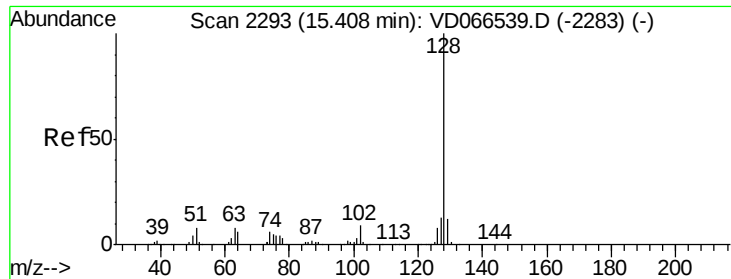


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

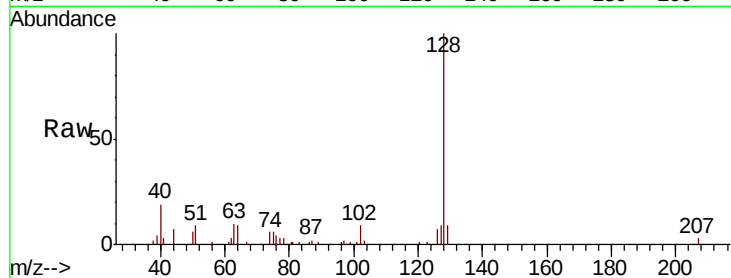




#95
Naphthalene
Concen: 5.745 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VD066569.D
Acq: 04 Sep 2020 18:02

Instrument :
MSVOA_D
ClientSampleId :
BP-VPB181-GW-858-860

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.2	10.7	16.1
129	10.7	9.1	13.7



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

