

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102120\
 Data File : VD067345.D
 Acq On : 21 Oct 2020 14:04
 Operator : VA/SY
 Sample : L4221-10
 Misc : 7.98G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-03-102020

Quant Time: Oct 22 00:20:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	344356	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	570815	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	541583	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	254966	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	182316	52.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.70%	
35) Dibromofluoromethane	7.92	113	184321	48.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.04%	
50) Toluene-d8	10.35	98	657869	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
62) 4-Bromofluorobenzene	12.64	95	232018	48.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.08%	

Target Compounds

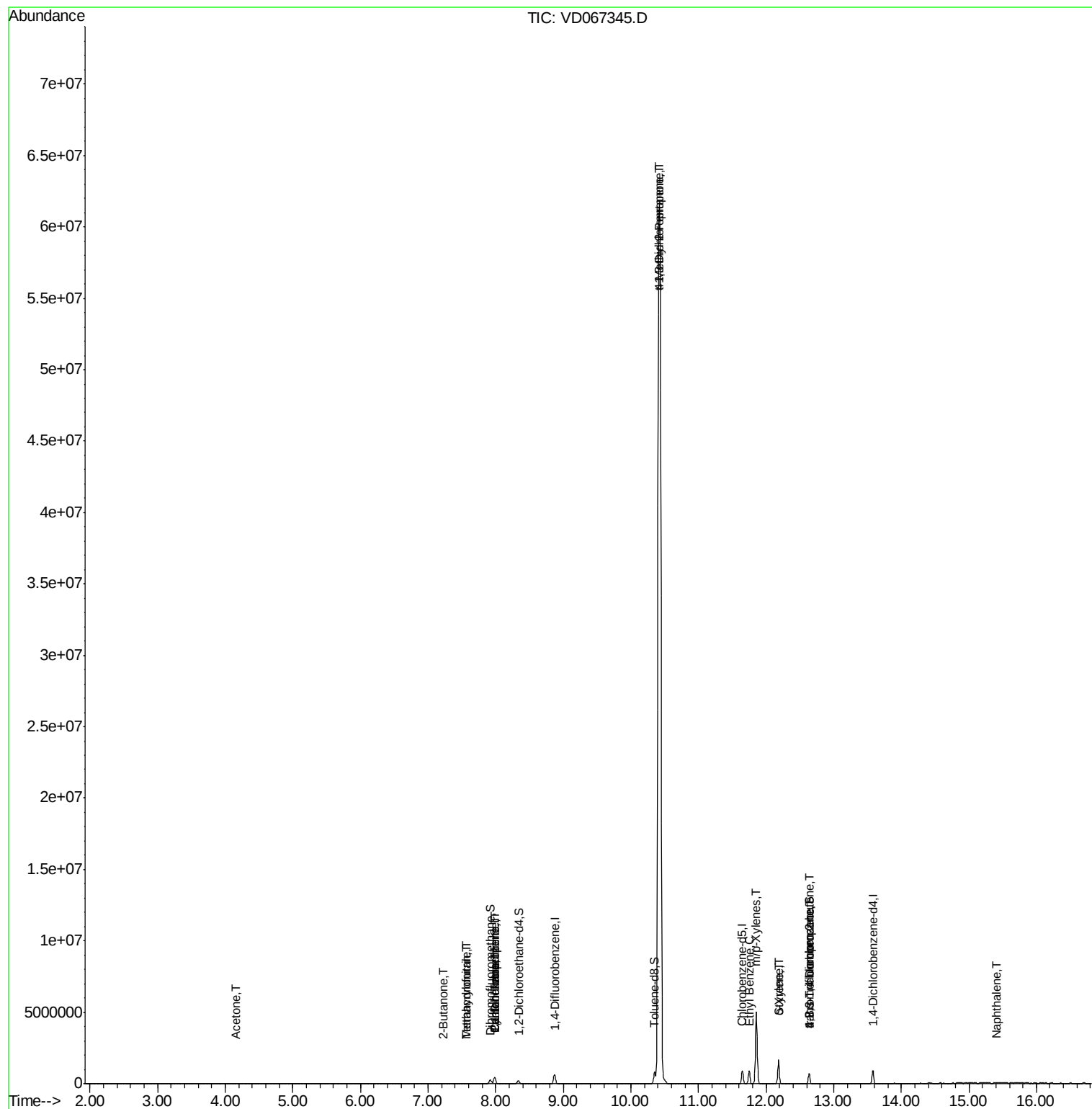
						Qvalue
2) Dichlorodifluoromethane	1.99	85	192	Below Cal	#	44
5) Bromomethane	2.78	94	143	Below Cal	#	80
11) Tert butyl alcohol	5.23	59	195	Below Cal	#	81
16) Acetone	4.16	43	13815	28.593	ug/l #	87
20) Methylene Chloride	4.95	84	363	Below Cal	#	52
25) 2-Butanone	7.23	43	2261	4.105	ug/l	95
29) Tetrahydrofuran	7.56	42	1236	4.037	ug/l #	74
31) Cyclohexane	7.98	56	6905	1.738	ug/l #	31
36) 1,1-Dichloropropene	7.98	75	23915	4.943	ug/l #	50
38) Carbon Tetrachloride	7.98	117	35147	5.684	ug/l #	19
41) Methacrylonitrile	7.57	41	898	1.167	ug/l #	20
51) 4-Methyl-2-Pentanone	10.43	43	521703	370.328	ug/l #	32
53) t-1,3-Dichloropropene	10.41	75	1056768	234.281	ug/l #	1
67) Ethyl Benzene	11.75	91	642309	36.079	ug/l	98
68) m/p-Xylenes	11.86	106	1649082	240.548	ug/l	99
69) o-Xylene	12.18	106	459289	72.349	ug/l	98
70) Styrene	12.18	104	23960	2.193	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	119897	67.847	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	119897	153.858	ug/l #	10
95) Naphthalene	15.41	128	27834	3.707	ug/l #	92

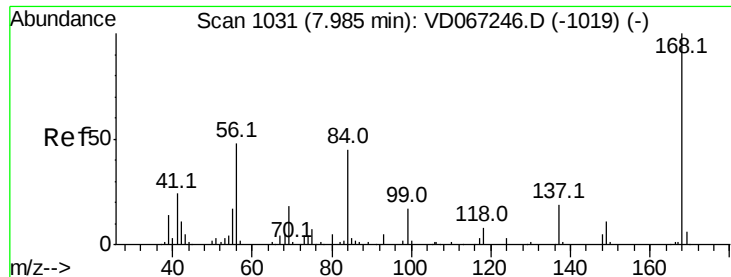
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102120\
Data File : VD067345.D
Acq On : 21 Oct 2020 14:04
Operator : VA/SY
Sample : L4221-10
Misc : 7.98G/5.00ml/MSVOA D/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
OK-03-102020

Quant Time: Oct 22 00:20:19 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
Quant Title : SW846 8260
QLast Update : Mon Oct 19 19:13:29 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

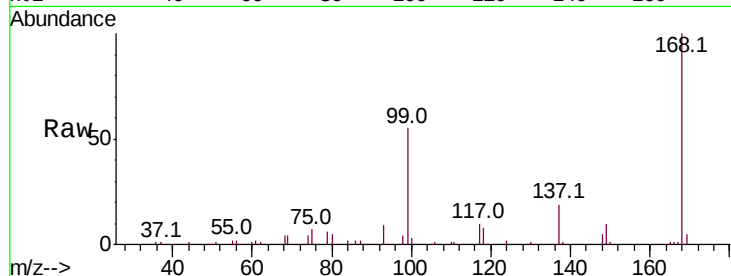
OK-03-102020

Tot Ion:168 Resp: 344356

Ion Ratio Lower Upper

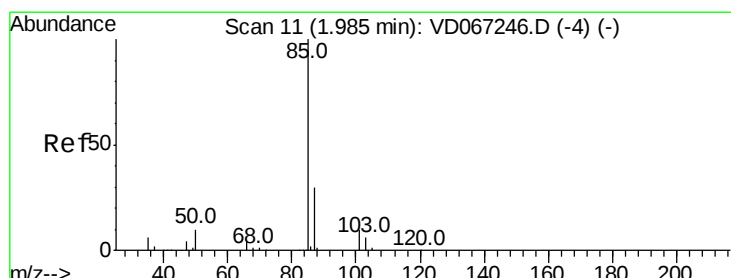
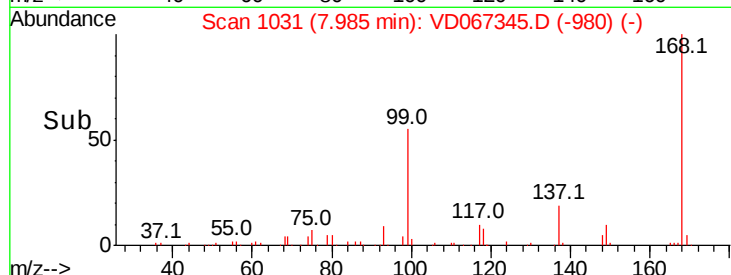
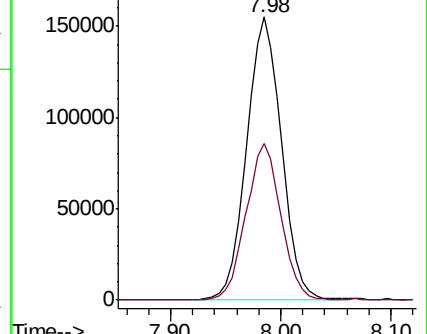
168 100

99 55.0 45.9 68.9



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: VD067345.D

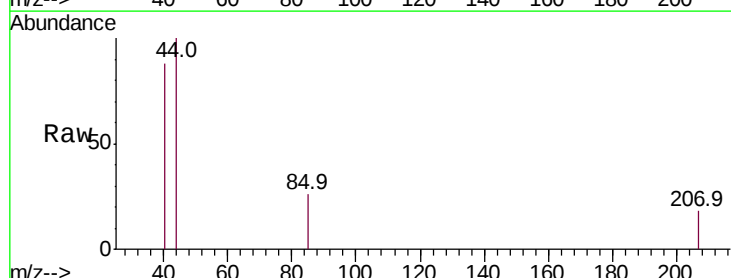
Acq: 21 Oct 2020 14:04

Tgt Ion: 85 Resp: 192

Ion Ratio Lower Upper

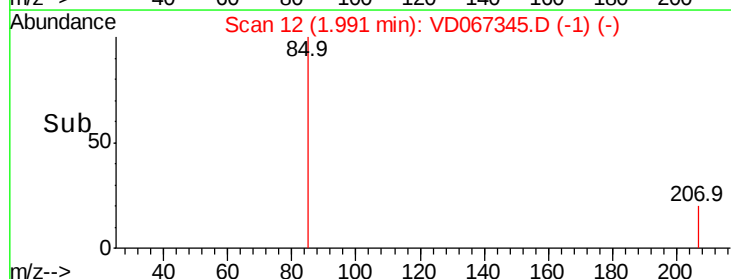
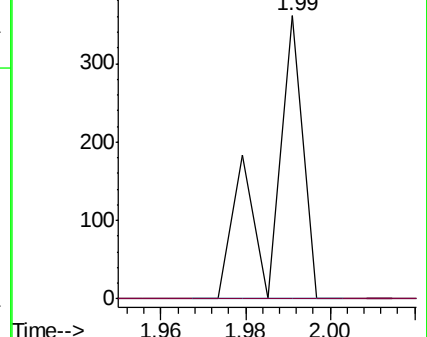
85 100

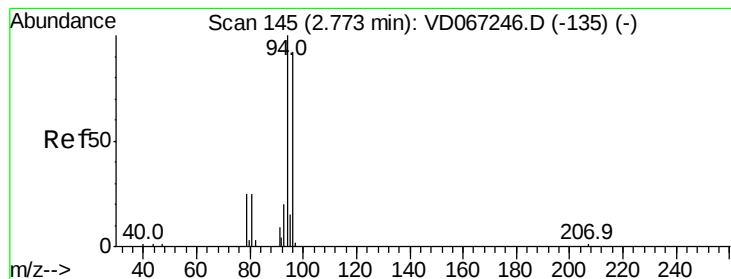
87 0.0 15.2 45.6#



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: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

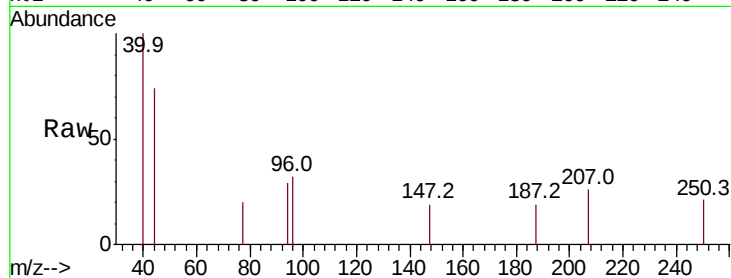
OK-03-102020

Tot Ion: 94 Resp: 143

Ion Ratio Lower Upper

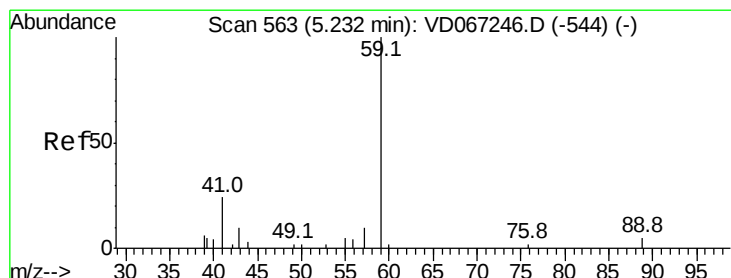
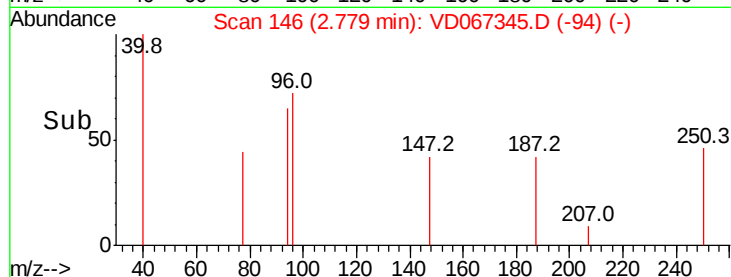
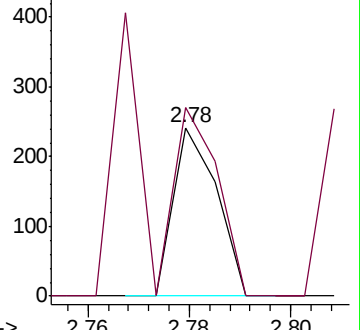
94 100

96 111.6 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 562

Delta R.T. -0.00 min

Lab File: VD067345.D

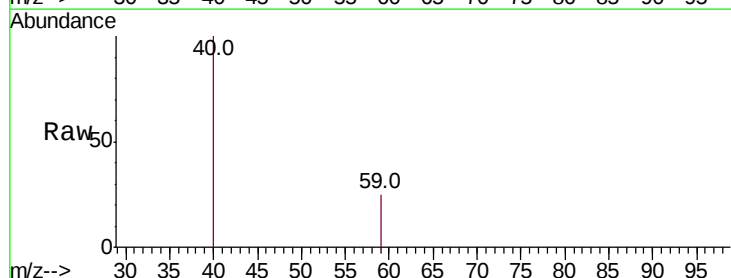
Acq: 21 Oct 2020 14:04

Tgt Ion: 59 Resp: 195

Ion Ratio Lower Upper

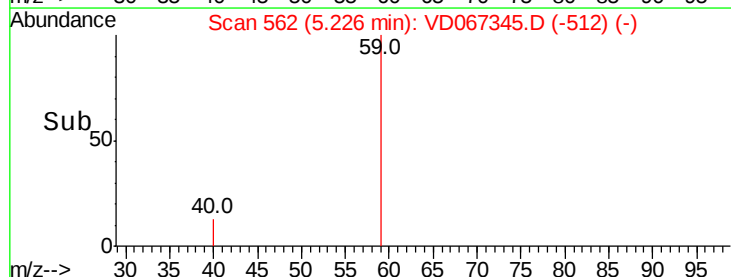
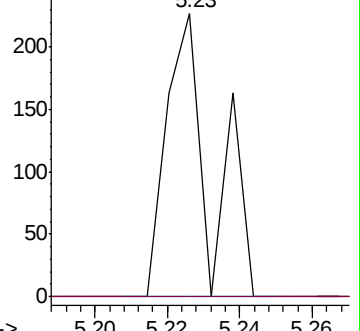
59 100

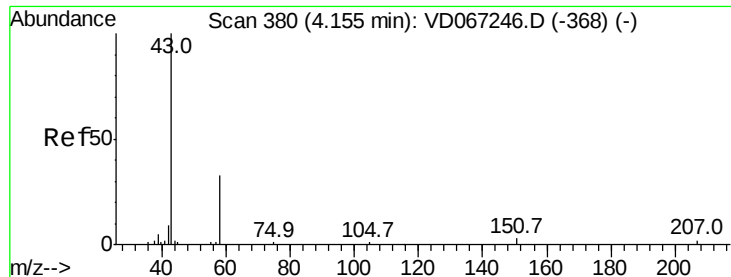
57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 28.593 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

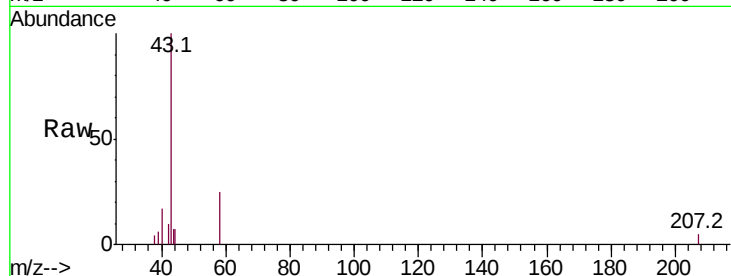
OK-03-102020

Tot Ion: 43 Resp: 13815

Ion Ratio Lower Upper

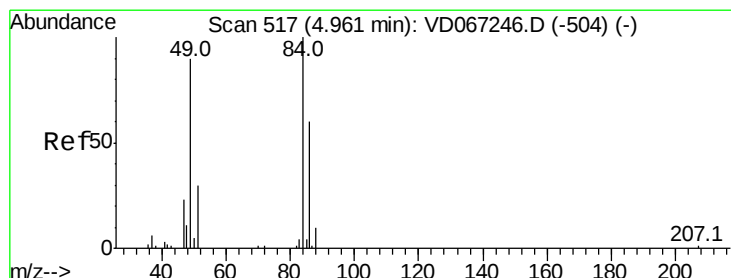
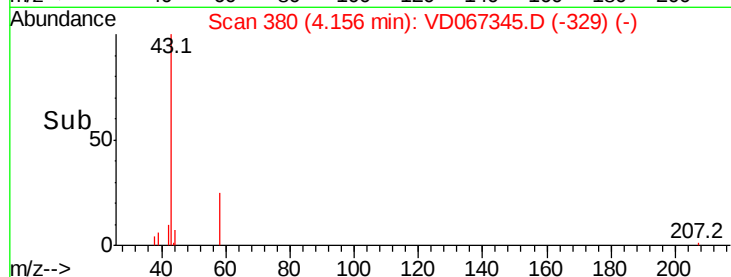
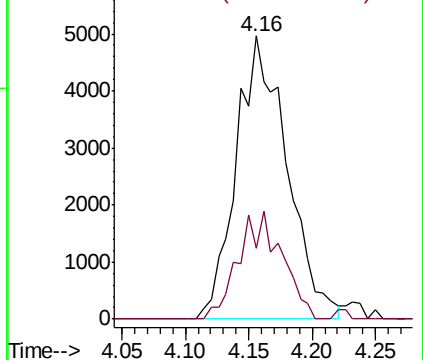
43 100

58 25.2 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.95 min Scan# 515

Delta R.T. -0.01 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Tgt Ion: 84 Resp: 363

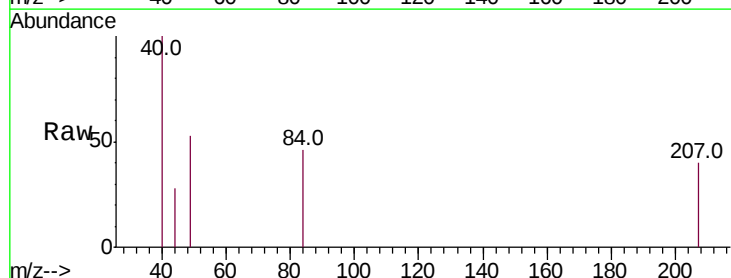
Ion Ratio Lower Upper

84 100

49 114.0 72.2 108.2#

51 0.0 23.8 35.8#

86 0.0 48.2 72.4#

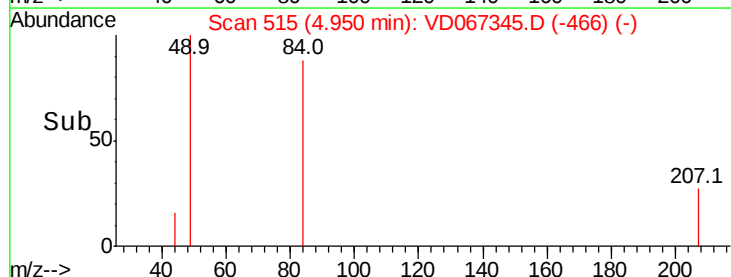
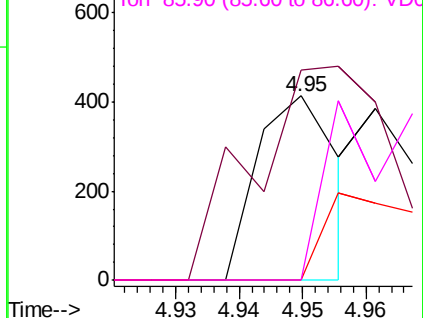


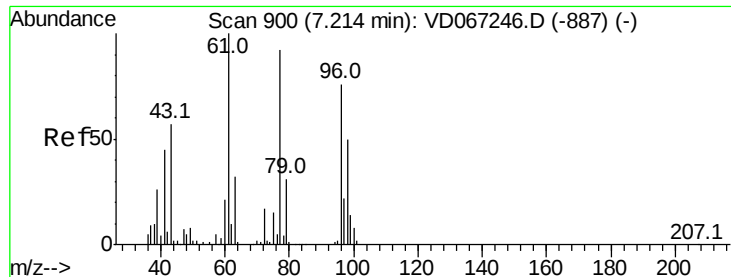
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

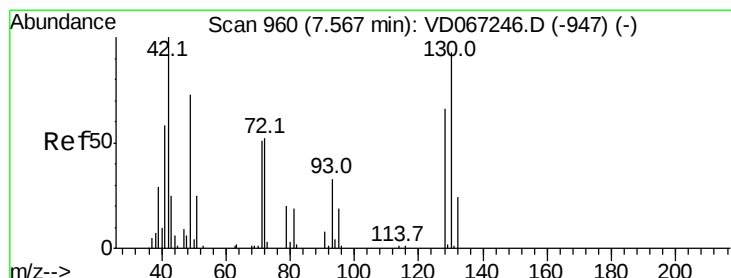
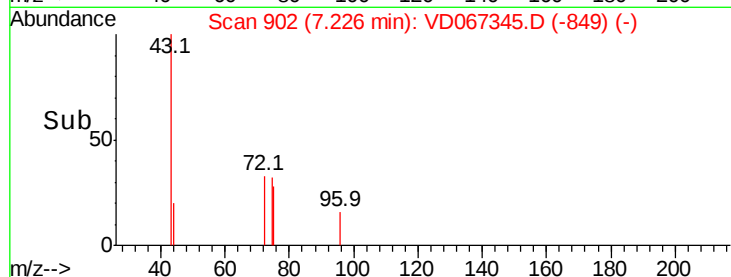
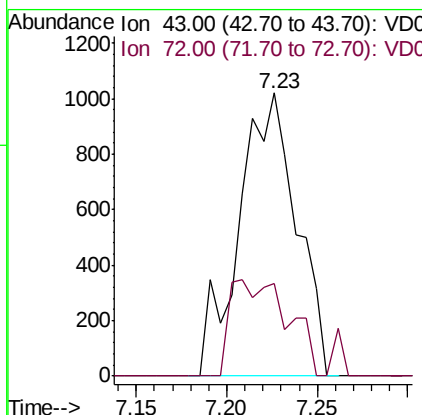
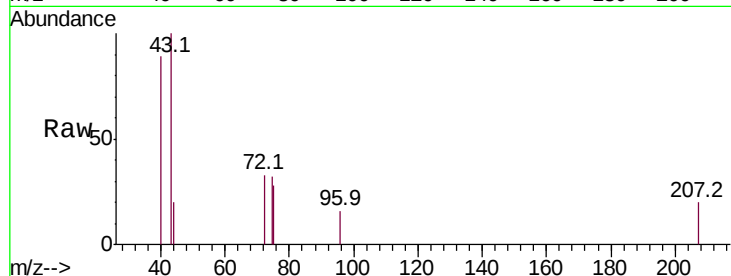




#25
 2-Butanone
 Concen: 4.105 ug/l
 RT: 7.23 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: VD067345.D
 Acq: 21 Oct 2020 14:04

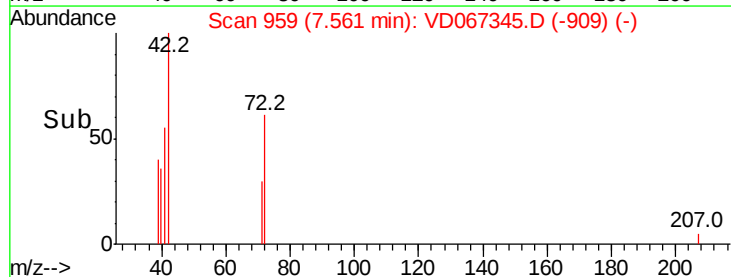
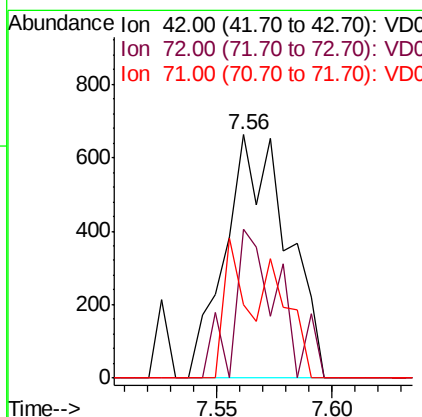
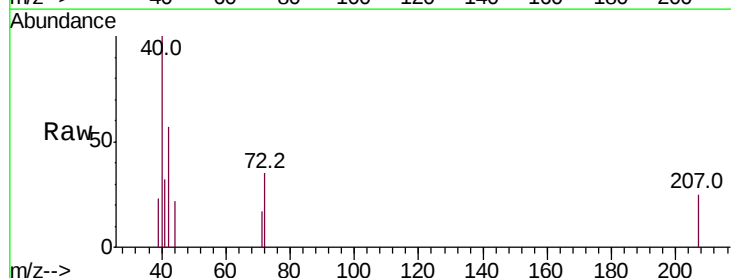
Instrument :
 MSVOA_D
 ClientSampleId :
 OK-03-102020

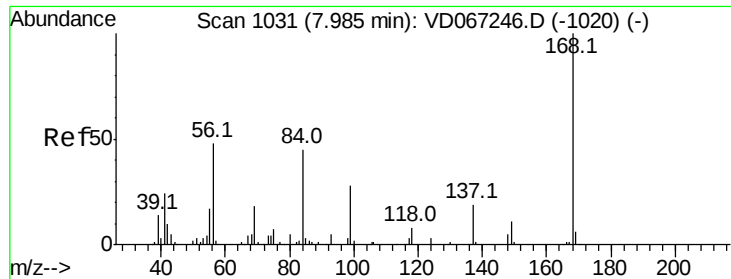
Tot Ion: 43 Resp: 2261
 Ion Ratio Lower Upper
 43 100
 72 32.5 23.7 35.5



#29
 Tetrahydrofuran
 Concen: 4.037 ug/l
 RT: 7.56 min Scan# 959
 Delta R.T. -0.01 min
 Lab File: VD067345.D
 Acq: 21 Oct 2020 14:04

Tgt Ion: 42 Resp: 1236
 Ion Ratio Lower Upper
 42 100
 72 45.6 43.2 64.8
 71 21.0 39.4 59.0#

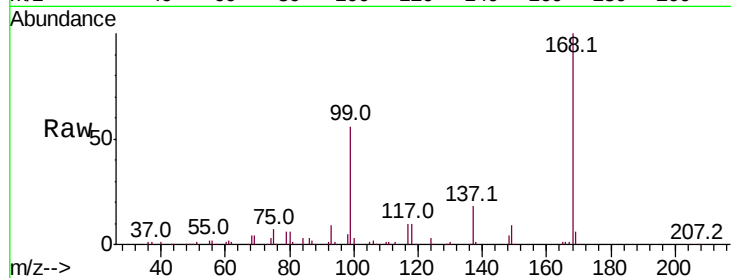




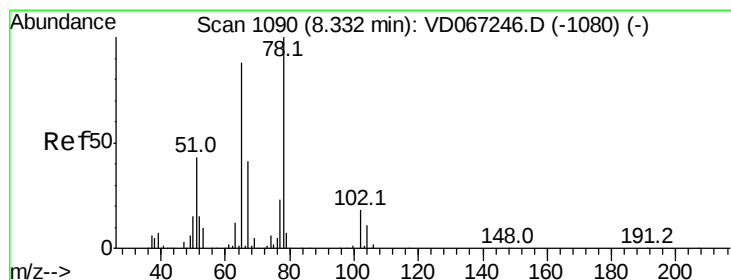
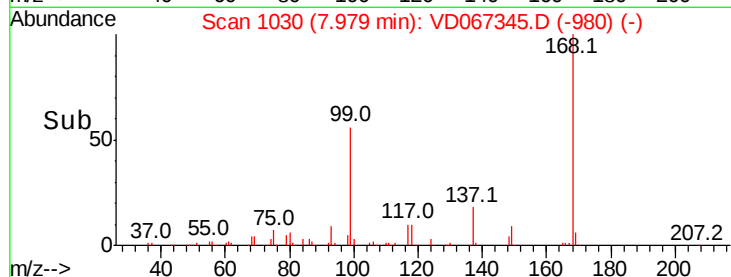
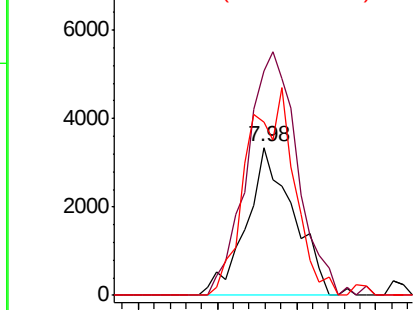
#31
Cyclohexane
Concen: 1.738 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067345.D
Acq: 21 Oct 2020 14:04

Instrument :
MSVOA_D
ClientSampleId :
OK-03-102020

Tot Ion: 56 Resp: 6905
Ion Ratio Lower Upper
56 100
69 152.0 29.8 44.6#
84 116.9 76.6 114.8#

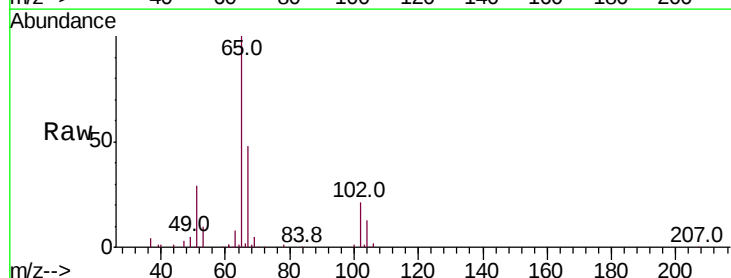


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

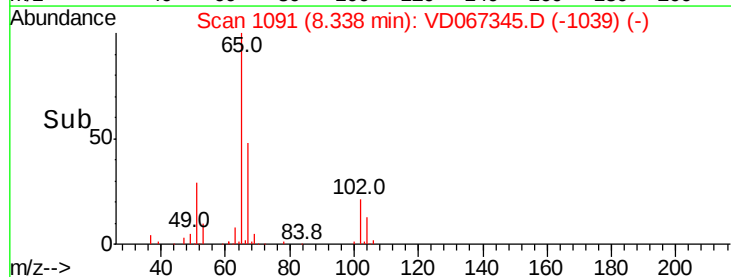
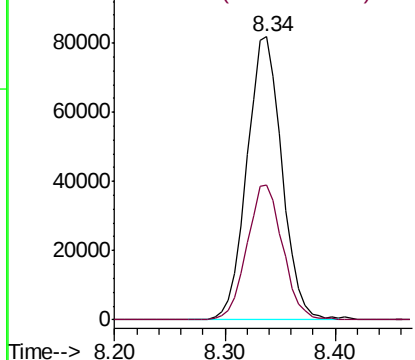


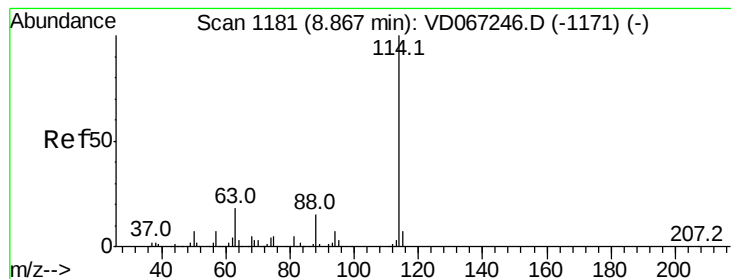
#33
1,2-Dichloroethane-d4
Concen: 52.846 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD067345.D
Acq: 21 Oct 2020 14:04

Tgt Ion: 65 Resp: 182316
Ion Ratio Lower Upper
65 100
67 48.8 0.0 103.8



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# 1182

Delta R.T. 0.01 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

OK-03-102020

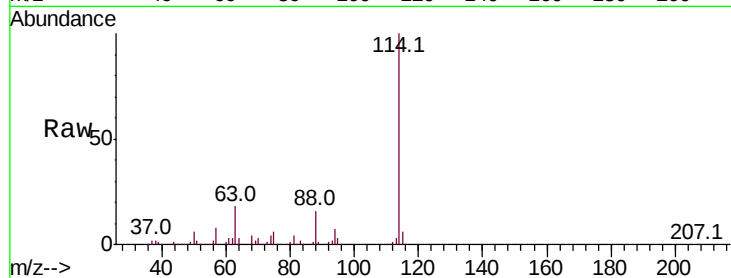
Tot Ion:114 Resp: 570815

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.0

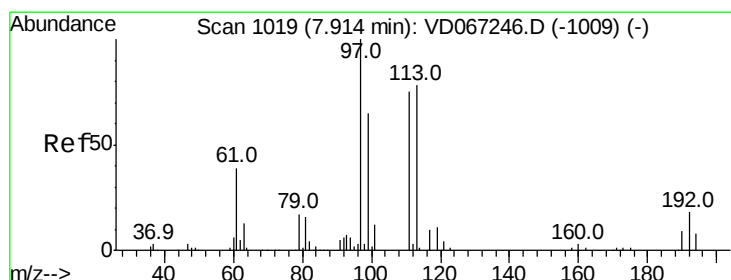
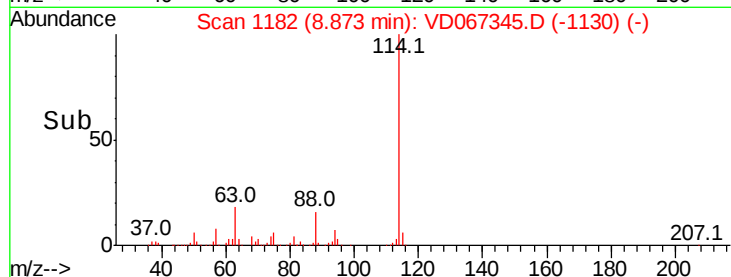
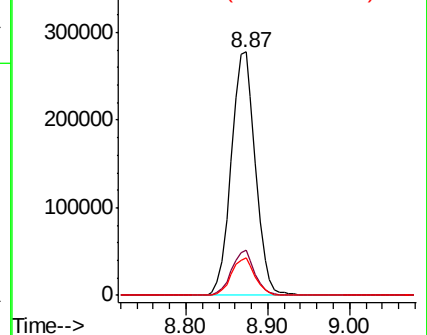
88 15.6 0.0 30.6



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: 48.521 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

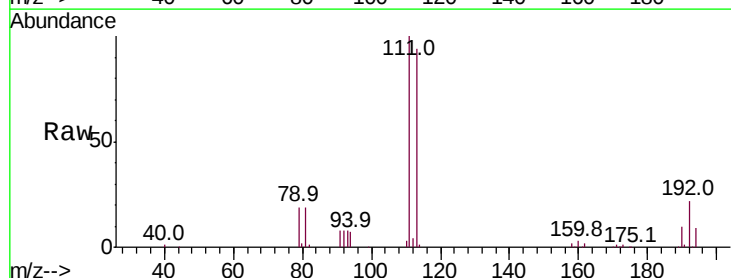
Tgt Ion:113 Resp: 184321

Ion Ratio Lower Upper

113 100

111 105.2 81.6 122.4

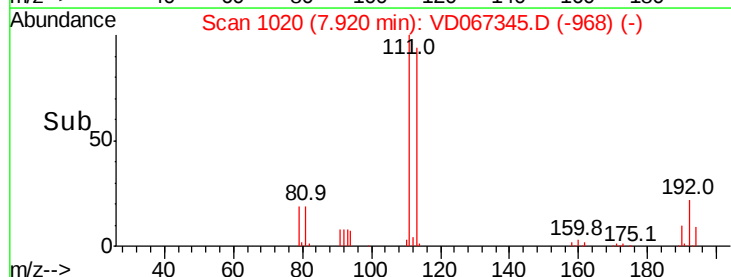
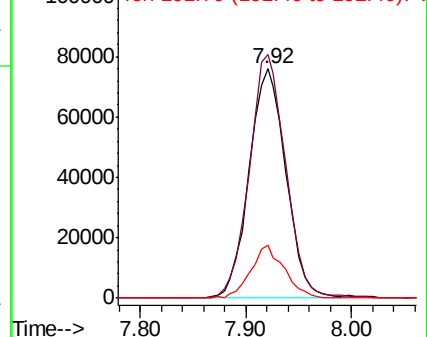
192 20.9 17.0 25.4

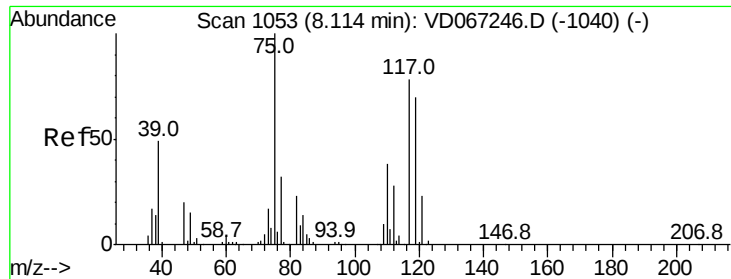


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

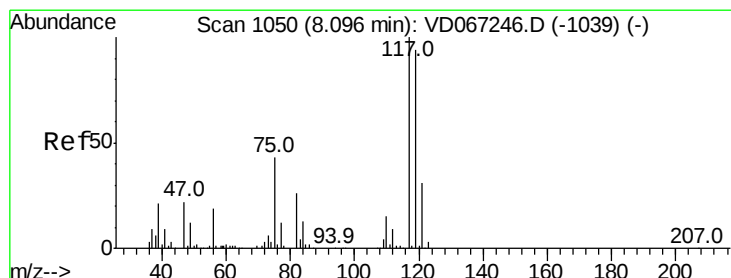
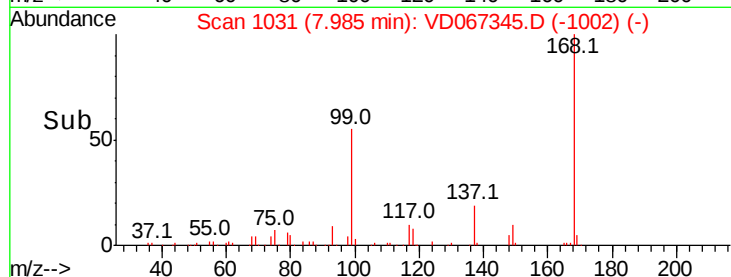
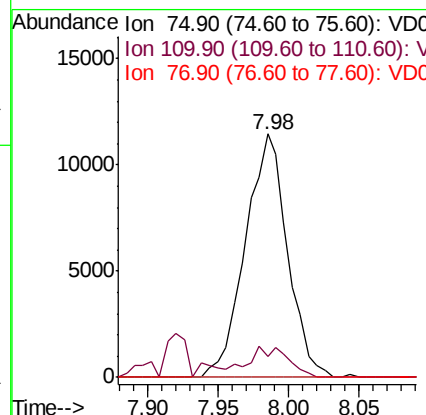
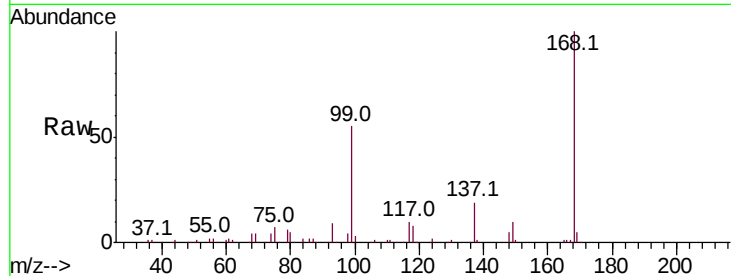




#36
 1,1-Dichloropropene
 Concen: 4.943 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD067345.D
 Acq: 21 Oct 2020 14:04

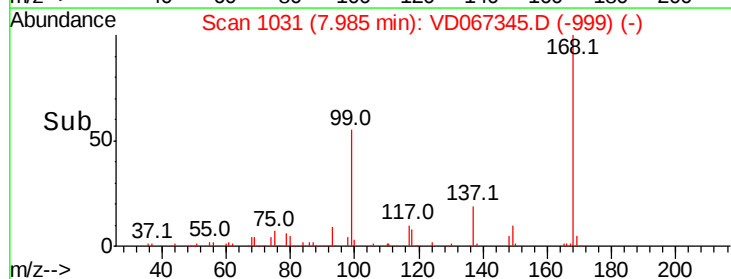
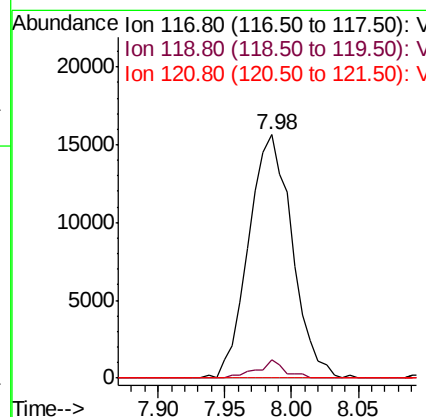
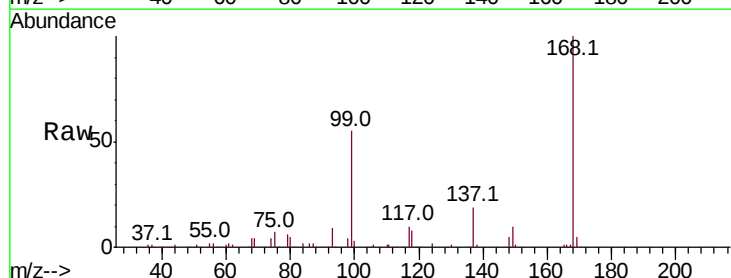
Instrument :
 MSVOA_D
 ClientSampleId :
 OK-03-102020

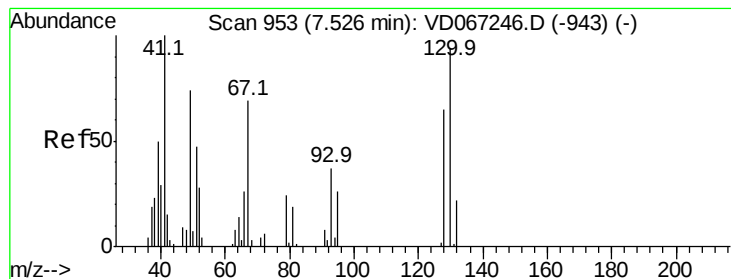
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.8	19.6	58.7#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.684 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD067345.D
 Acq: 21 Oct 2020 14:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.8	75.0	112.4#
121	0.0	24.9	37.3#





#41

Methacrylonitrile

Concen: 1.167 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.04 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

OK-03-102020

Tot Ion: 41 Resp: 898

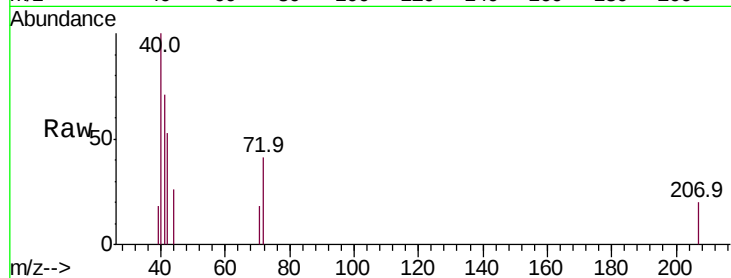
Ion Ratio Lower Upper

41 100

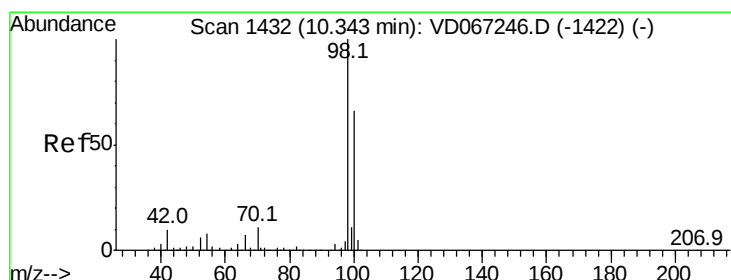
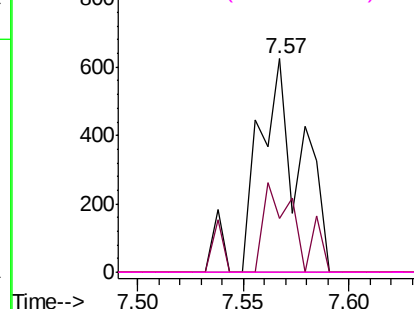
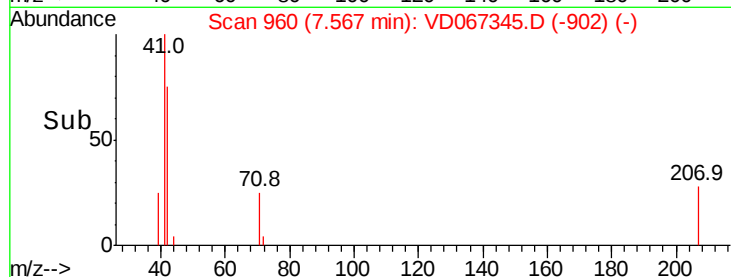
39 31.5 60.0 90.0#

67 0.0 88.9 133.3#

52 0.0 36.9 55.3#



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC



#50

Toluene-d8

Concen: 47.854 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.01 min

Lab File: VD067345.D

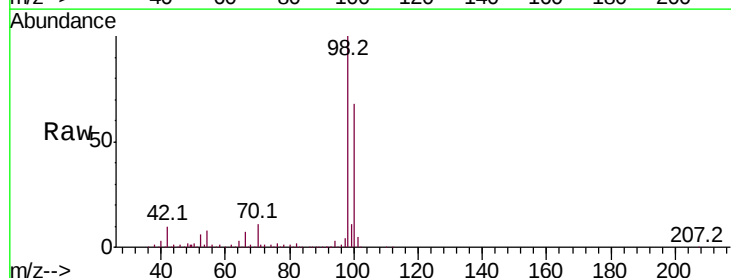
Acq: 21 Oct 2020 14:04

Tgt Ion: 98 Resp: 657869

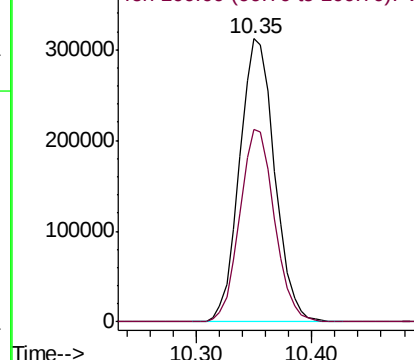
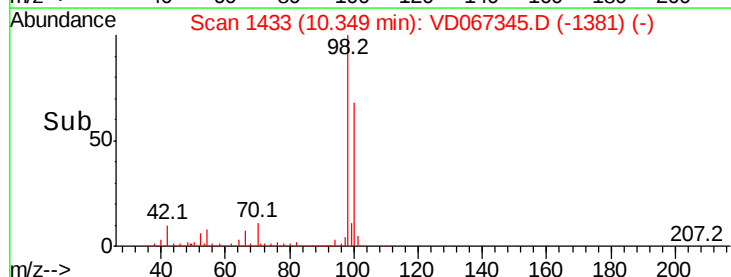
Ion Ratio Lower Upper

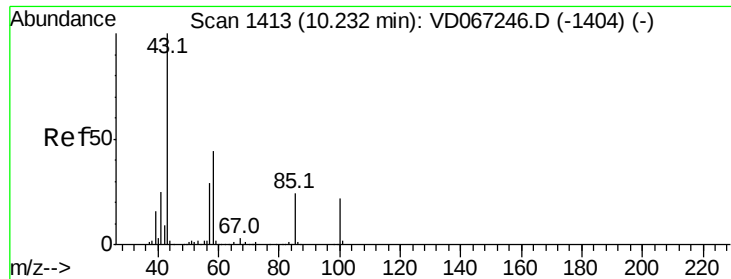
98 100

100 67.2 53.1 79.7



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





#51

4-Methyl-2-Pentanone

Concen: 370.328 ug/l

RT: 10.43 min Scan# 1446

Delta R.T. 0.19 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

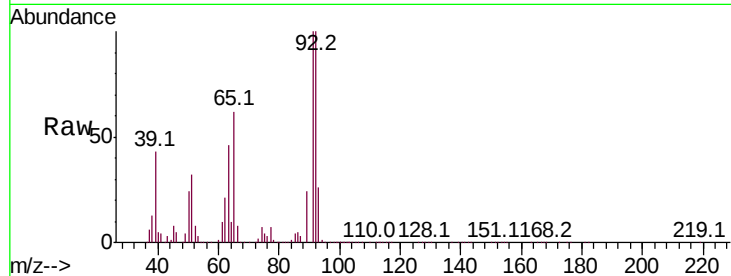
OK-03-102020

Tot Ion: 43 Resp: 521703

Ion Ratio Lower Upper

43 100

58 0.2 35.7 53.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

250000

200000

150000

100000

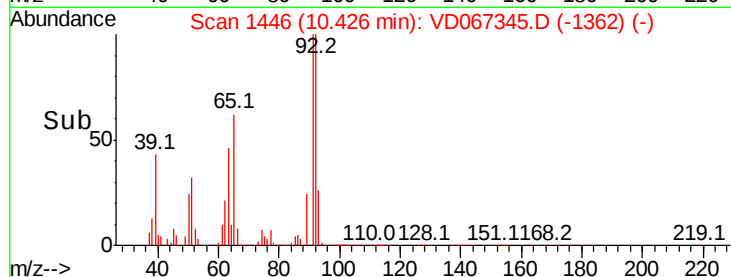
50000

0

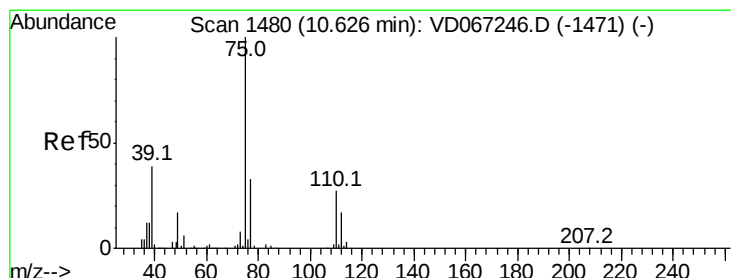
10.30

10.40

10.50



Time-->



#53

t-1,3-Dichloropropene

Concen: 234.281 ug/l

RT: 10.41 min Scan# 1444

Delta R.T. -0.21 min

Lab File: VD067345.D

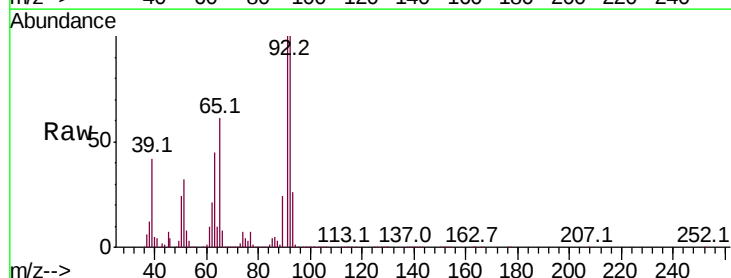
Acq: 21 Oct 2020 14:04

Tgt Ion: 75 Resp: 1056768

Ion Ratio Lower Upper

75 100

77 162.8 26.5 39.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

600000

400000

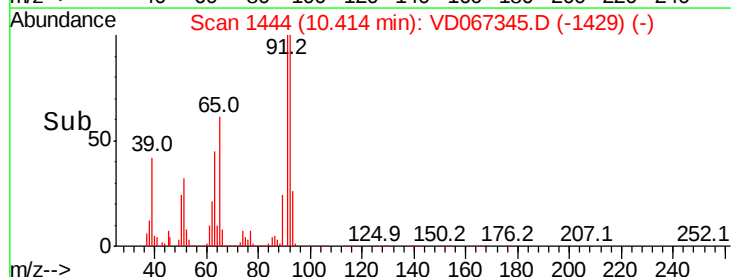
200000

0

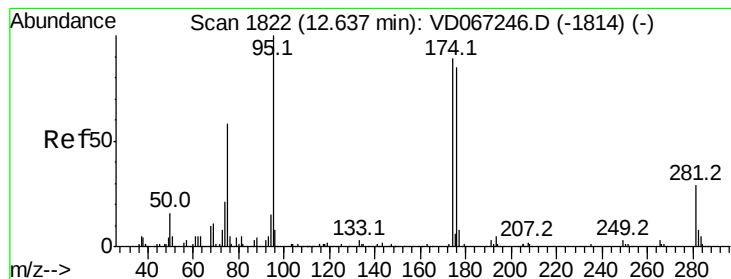
10.30

10.40

10.50



Time-->



#62

4-Bromofluorobenzene

Concen: 48.536 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

OK-03-102020

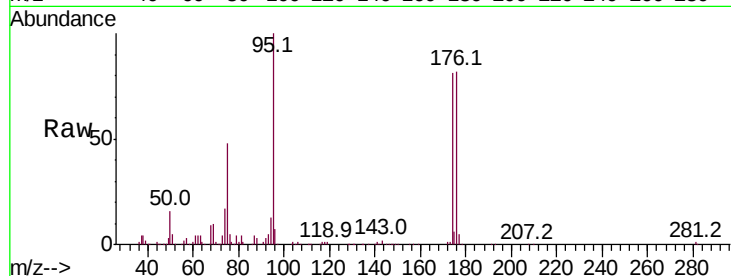
Tot Ion: 95 Resp: 232018

Ion Ratio Lower Upper

95 100

174 87.5 0.0 175.2

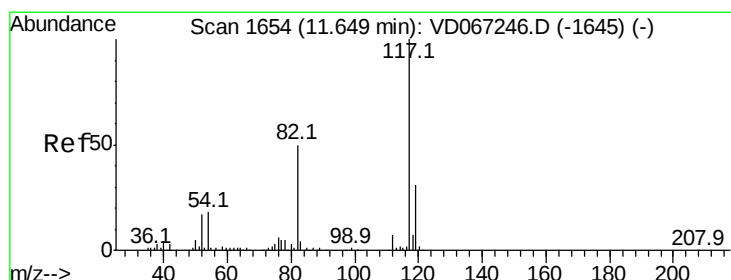
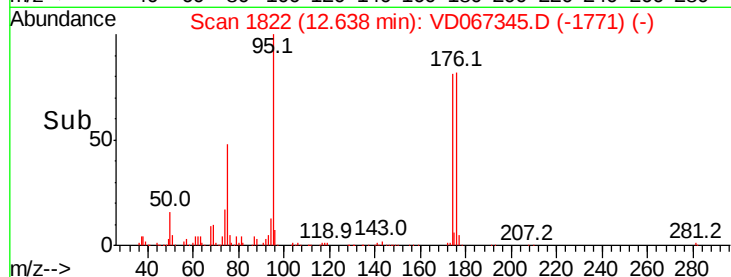
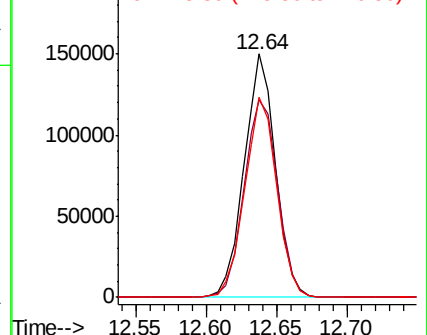
176 84.2 0.0 168.6



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. 0.00 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

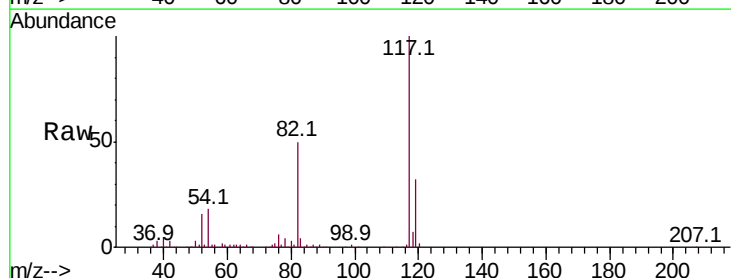
Tgt Ion: 117 Resp: 541583

Ion Ratio Lower Upper

117 100

82 49.8 39.9 59.9

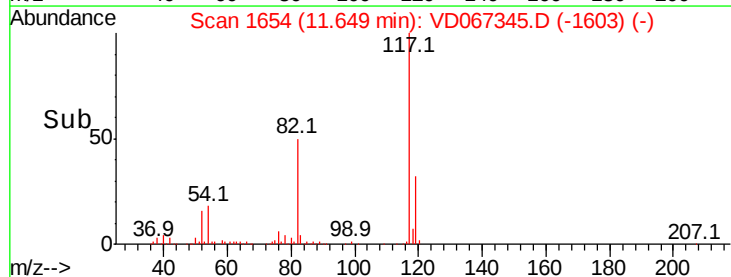
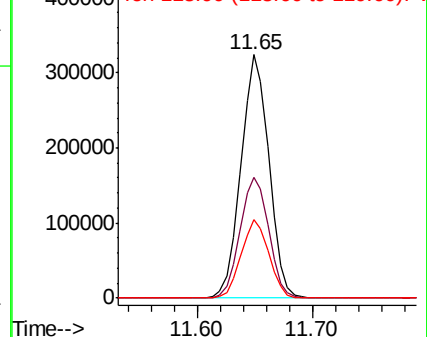
119 32.2 24.9 37.3

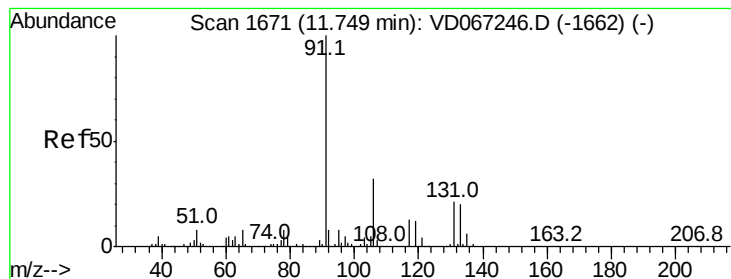


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 36.079 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

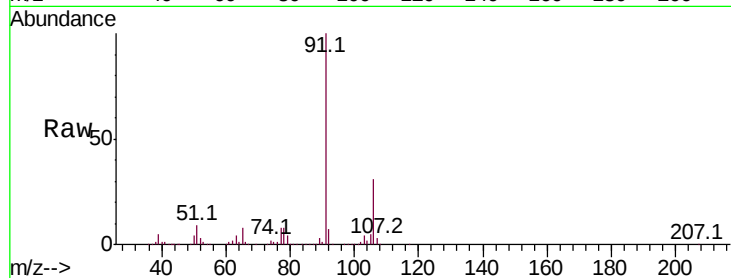
OK-03-102020

Tot Ion: 91 Resp: 642309

Ion Ratio Lower Upper

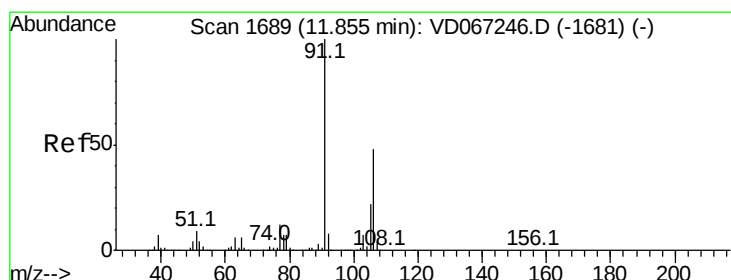
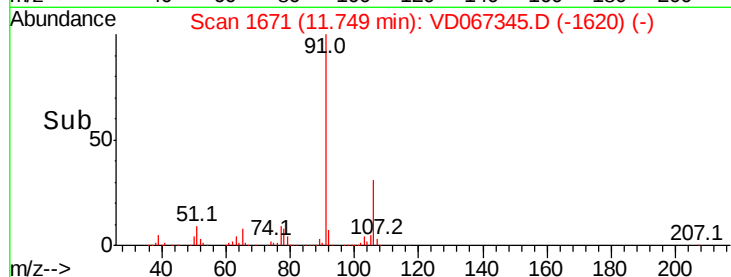
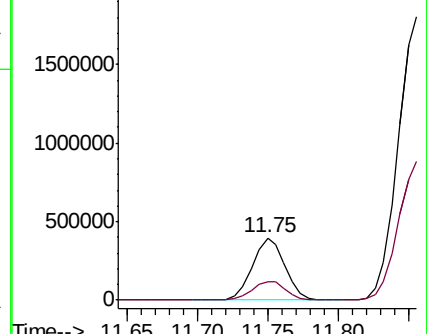
91 100

106 30.6 25.4 38.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.00 (105.70 to 106.70): VDC



#68

m/p-Xylenes

Concen: 240.548 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD067345.D

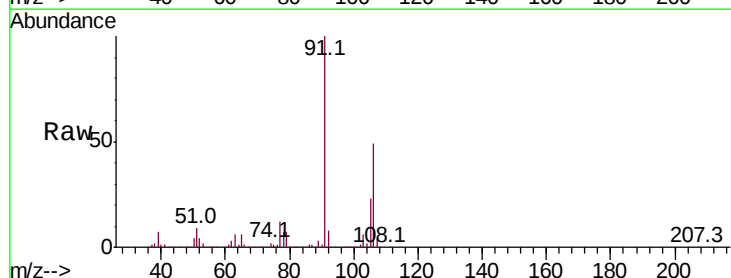
Acq: 21 Oct 2020 14:04

Tgt Ion:106 Resp: 1649082

Ion Ratio Lower Upper

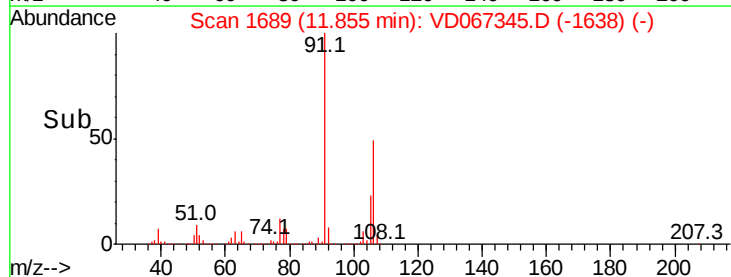
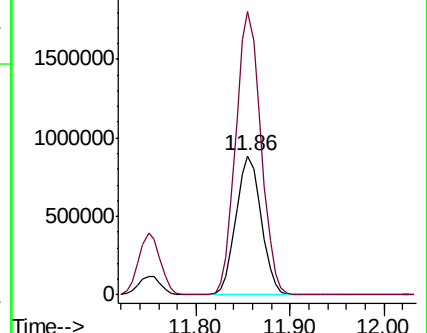
106 100

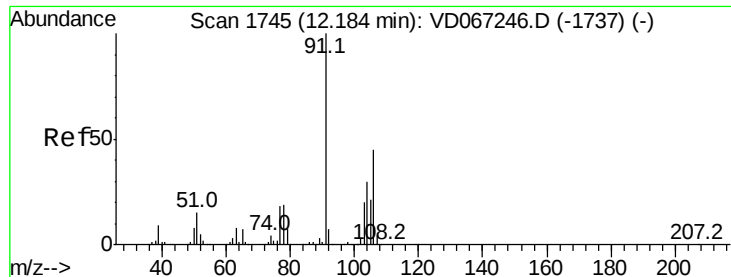
91 203.1 163.8 245.8



Abundance Ion 106.00 (105.70 to 106.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

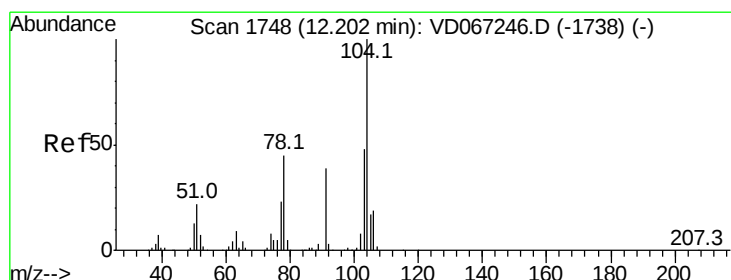
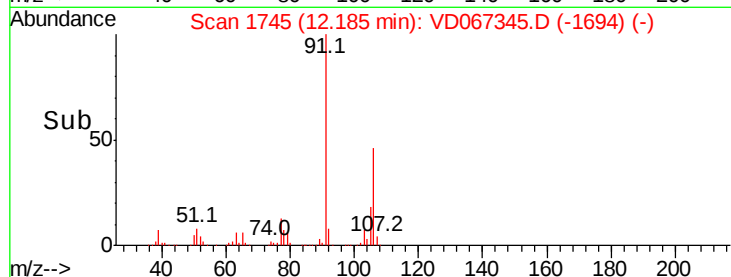
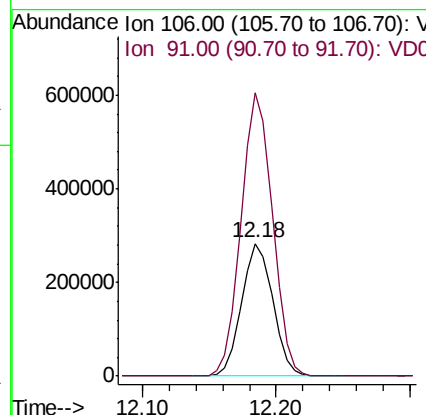
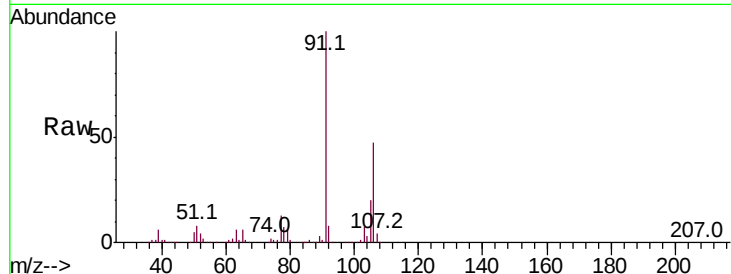




#69
o-Xylene
Concen: 72.349 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD067345.D
Acq: 21 Oct 2020 14:04

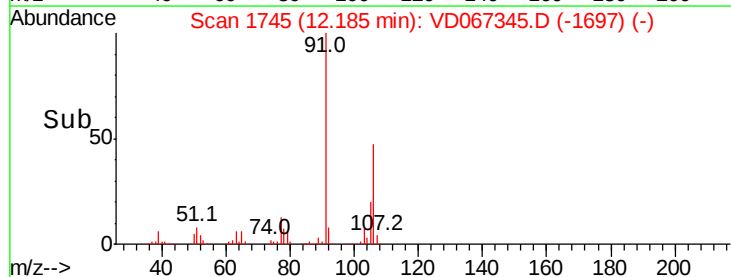
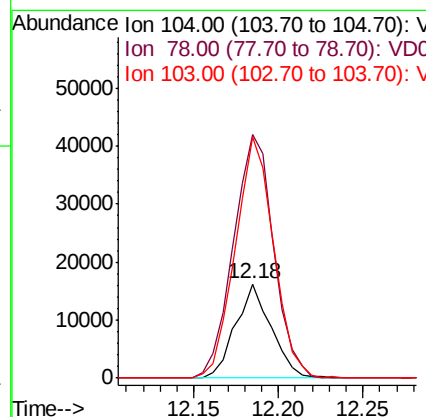
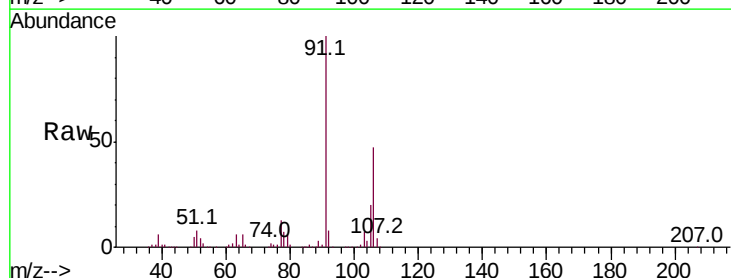
Instrument :
MSVOA_D
ClientSampleId :
OK-03-102020

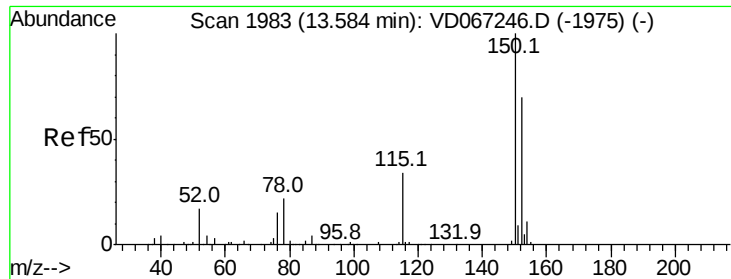
Tot Ion:106 Resp: 459289
Ion Ratio Lower Upper
106 100
91 214.7 109.1 327.3



#70
Styrene
Concen: 2.193 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.02 min
Lab File: VD067345.D
Acq: 21 Oct 2020 14:04

Tgt Ion:104 Resp: 23960
Ion Ratio Lower Upper
104 100
78 290.6 39.8 59.6#
103 274.7 42.6 64.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

OK-03-102020

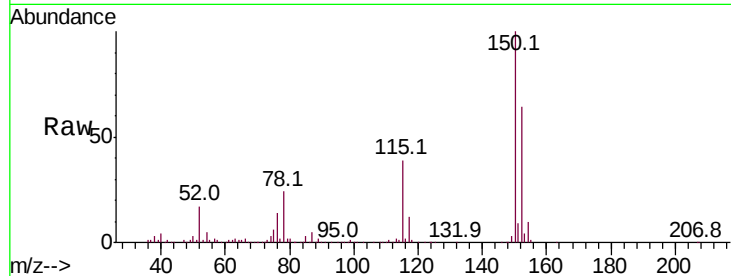
Tot Ion:152 Resp: 254966

Ion Ratio Lower Upper

152 100

115 61.4 29.3 87.9

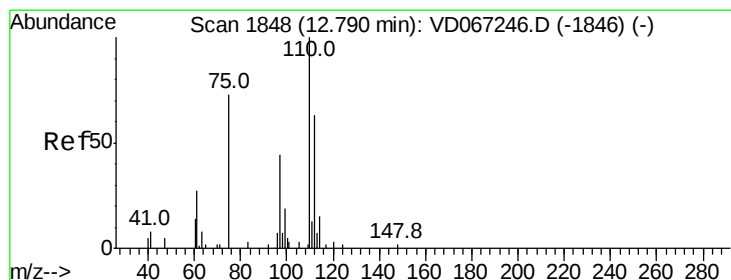
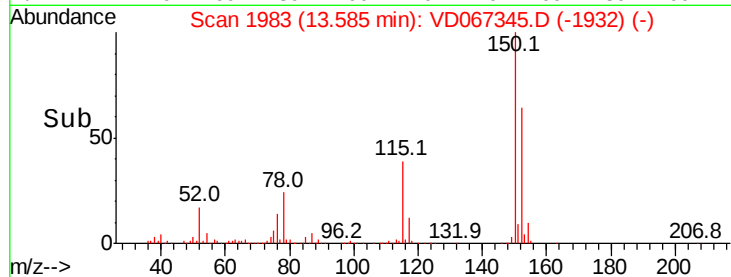
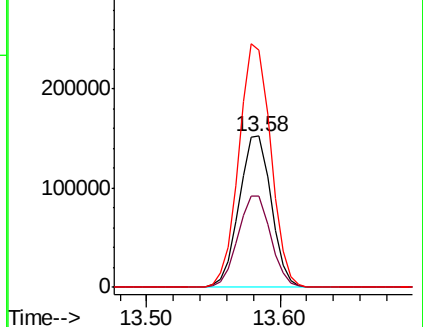
150 159.1 0.0 339.0



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: 67.847 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067345.D

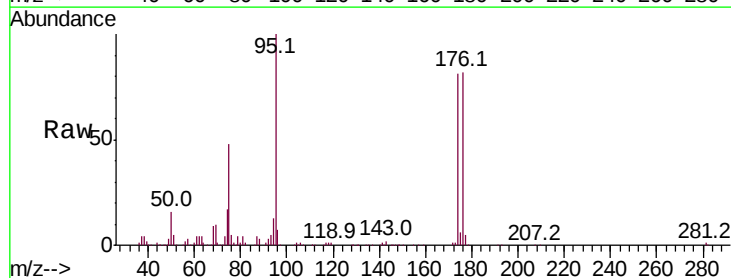
Acq: 21 Oct 2020 14:04

Tgt Ion: 75 Resp: 119897

Ion Ratio Lower Upper

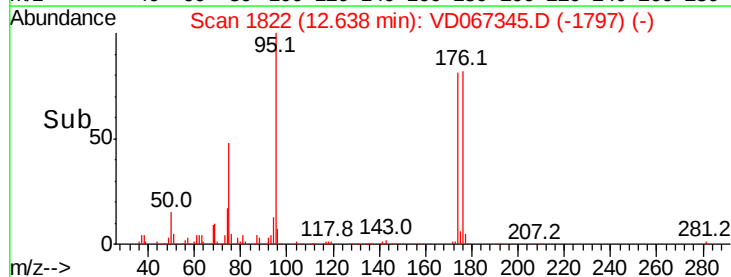
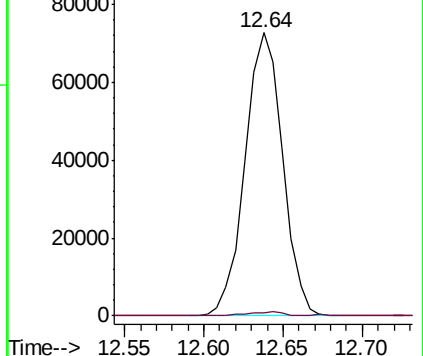
75 100

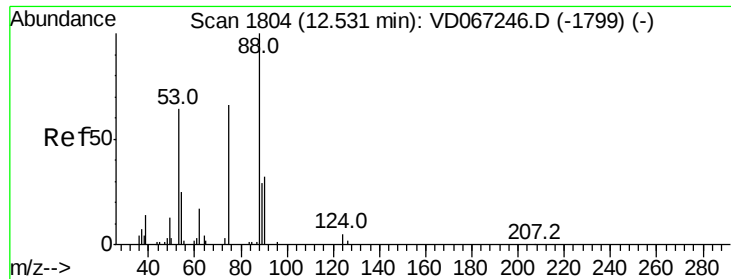
77 1.6 0.0 0.0#



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: 153.858 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Instrument :

MSVOA_D

ClientSampleId :

OK-03-102020

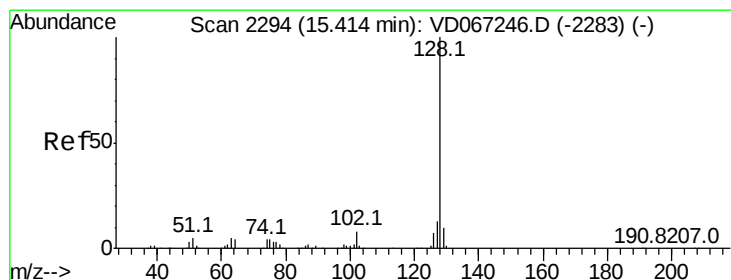
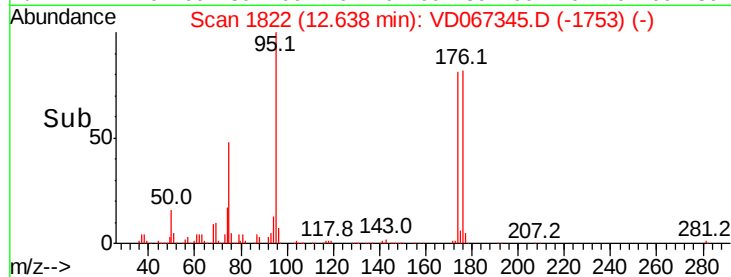
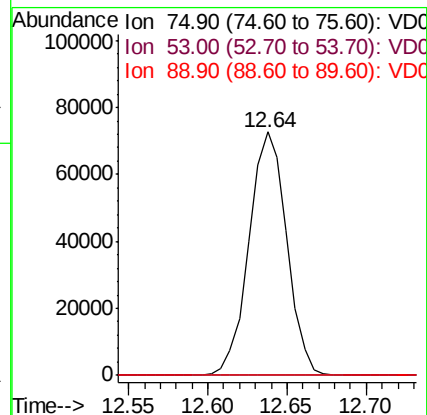
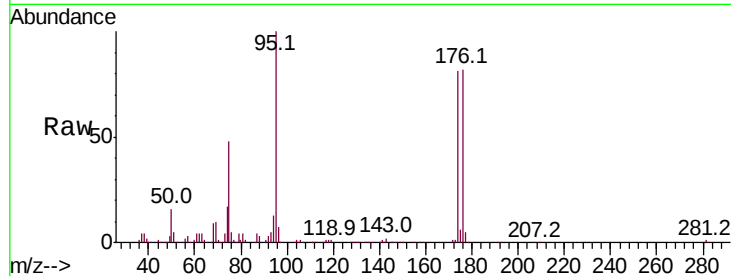
Tot Ion: 75 Resp: 119897

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 39.9 59.9#



#95

Naphthalene

Concen: 3.707 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD067345.D

Acq: 21 Oct 2020 14:04

Tgt Ion: 128 Resp: 27834

Ion Ratio Lower Upper

128 100

127 17.2 10.4 15.6#

129 13.0 8.6 12.8#

