

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090420\
 Data File : VD066566.D
 Acq On : 04 Sep 2020 16:40
 Operator : VA/SY
 Sample : L3876-10
 Misc : 1.03G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1451-52

Quant Time: Sep 05 03:48:27 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	403078	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	685536	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	576594	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	249593	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	234621	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
35) Dibromofluoromethane	7.91	113	222573	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
50) Toluene-d8	10.34	98	814737	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.63	95	263538	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	

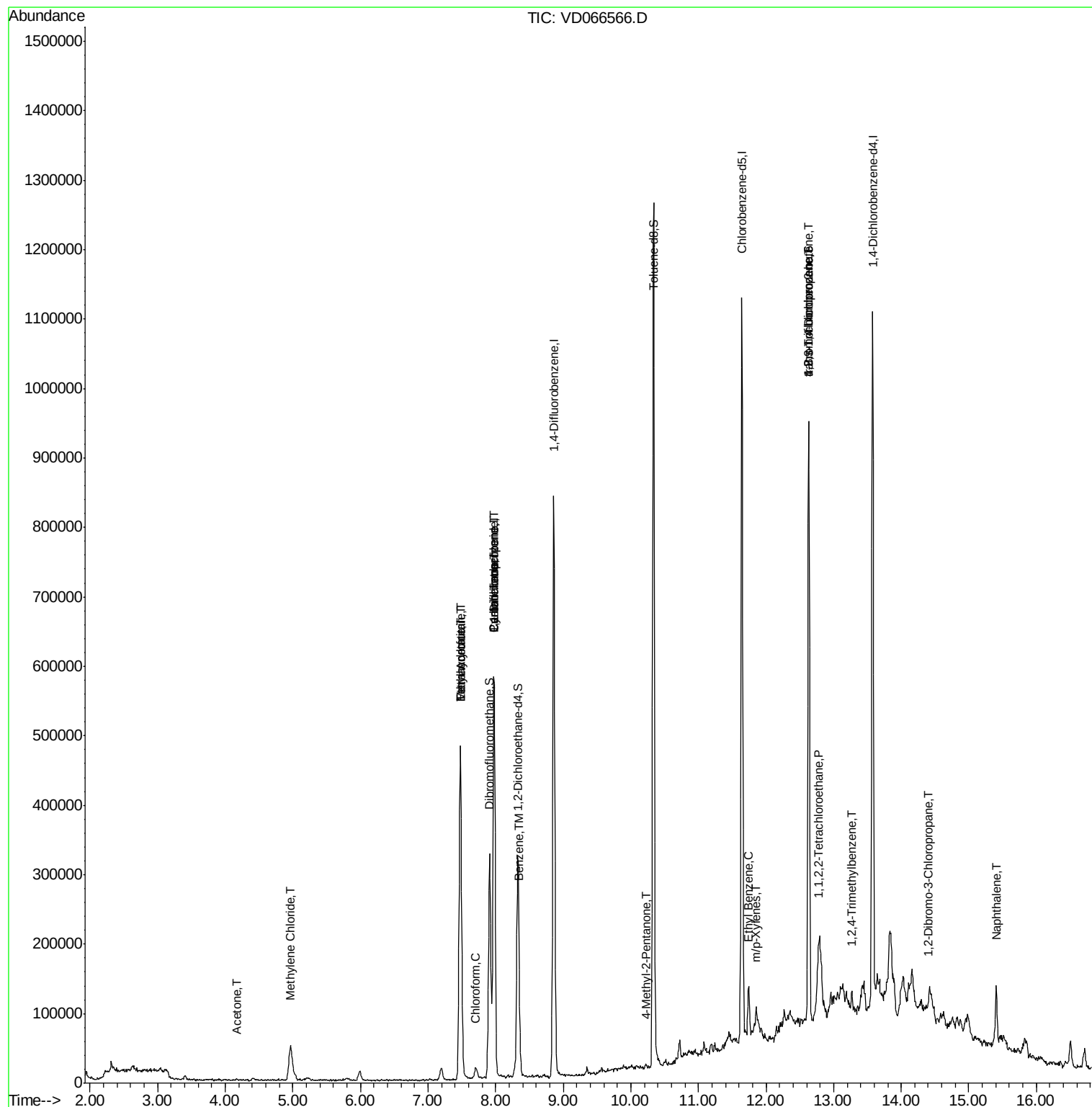
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.98	85	476	Below Cal	#	46
5) Bromomethane	2.77	94	1025	Below Cal		86
11) Tert butyl alcohol	5.20	59	5499	Below Cal	#	83
16) Acetone	4.16	43	2644	2.947	ug/l #	63
20) Methylene Chloride	4.96	84	38252	1.387	ug/l	89
29) Tetrahydrofuran	7.48	42	63841	85.100	ug/l #	35
30) Chloroform	7.70	83	12833	1.409	ug/l #	71
31) Cyclohexane	7.98	56	11752	1.477	ug/l #	54
36) 1,1-Dichloropropene	7.98	75	38095	5.340	ug/l #	49
37) Ethyl Acetate	7.48	43	417634	147.009	ug/l #	68
38) Carbon Tetrachloride	7.98	117	45302	6.007	ug/l #	18
40) Benzene	8.35	78	59148	3.027	ug/l	97
41) Methacrylonitrile	7.48	41	259881	188.984	ug/l #	42
51) 4-Methyl-2-Pentanone	10.22	43	2769	1.008	ug/l #	61
67) Ethyl Benzene	11.74	91	52842	2.418	ug/l	98
68) m/p-Xylenes	11.86	106	9122	1.124	ug/l	90
75) 1,1,2,2-Tetrachloroethane	12.77	83	27392	8.390	ug/l #	28
76) 1,2,3-Trichloropropane	12.63	75	149993	62.486	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	149993	145.883	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.27	105	17367	1.121	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.40	75	728	1.313	ug/l	88
95) Naphthalene	15.41	128	75638	10.089	ug/l	97

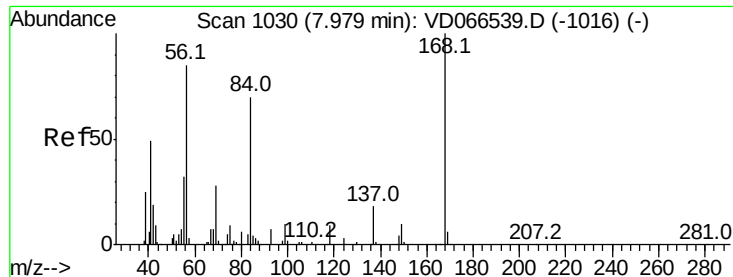
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 04 01:57:04 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

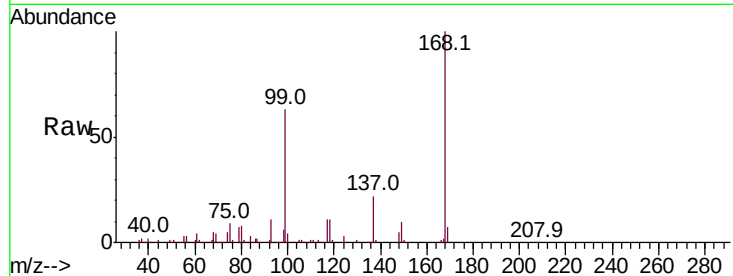
1451-52

Tot Ion:168 Resp: 403078

Ion Ratio Lower Upper

168 100

99 62.9 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

200000

150000

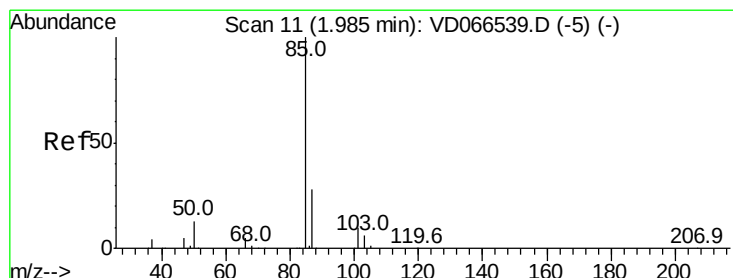
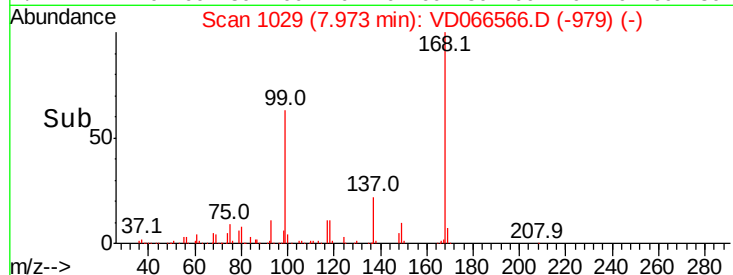
100000

50000

0

7.97

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD066566.D

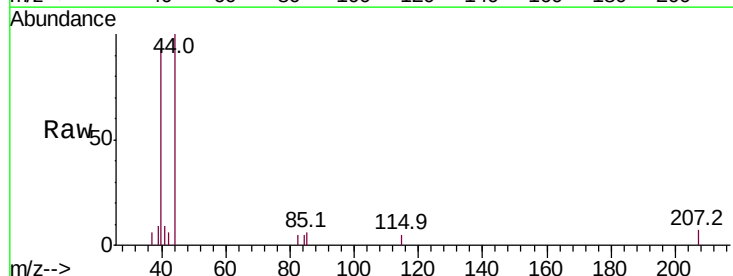
Acq: 04 Sep 2020 16:40

Tgt Ion: 85 Resp: 476

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

500

400

300

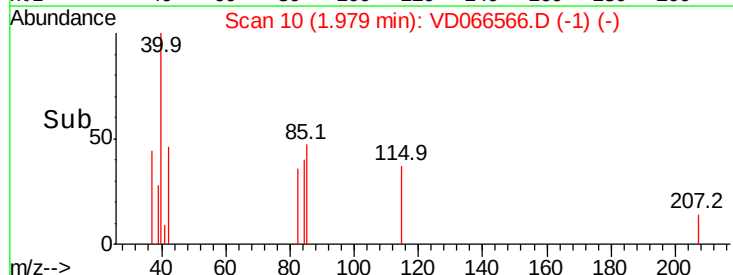
200

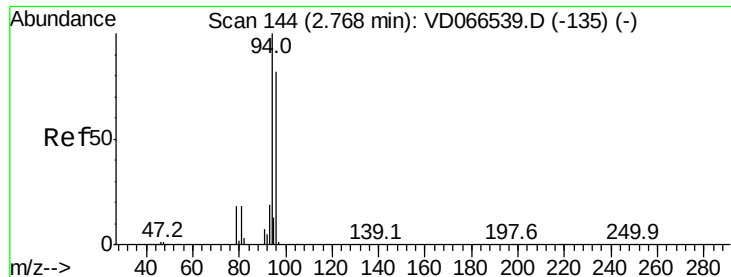
100

0

1.98

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

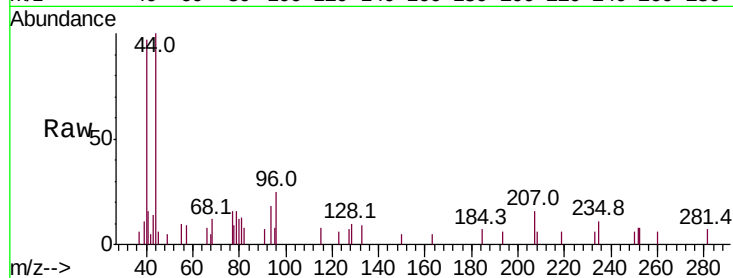
1451-52

Tot Ion: 94 Resp: 1025

Ion Ratio Lower Upper

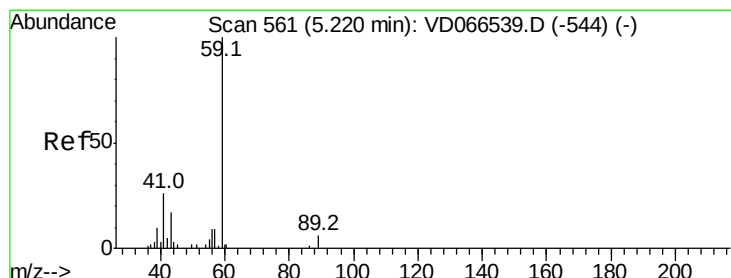
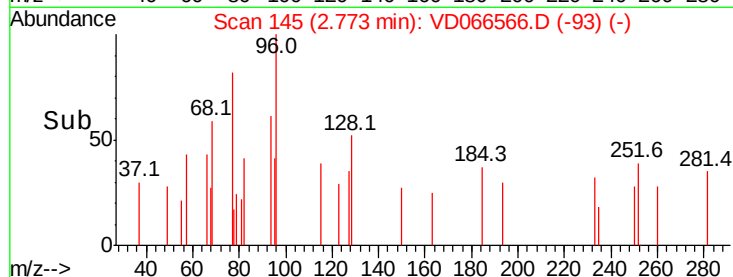
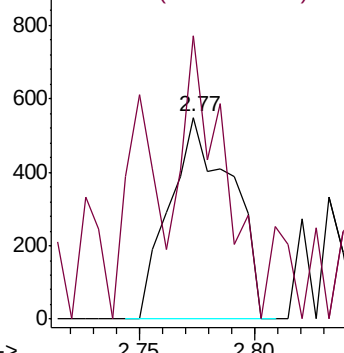
94 100

96 94.2 65.2 97.8



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: 5.20 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD066566.D

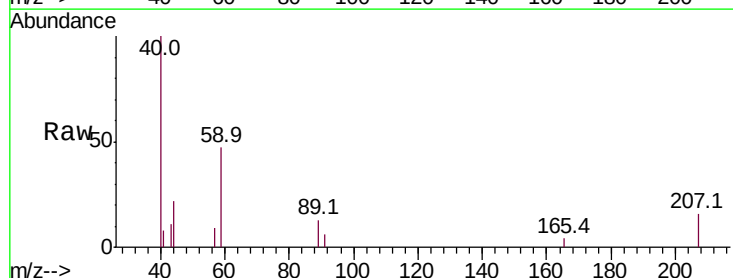
Acq: 04 Sep 2020 16:40

Tgt Ion: 59 Resp: 5499

Ion Ratio Lower Upper

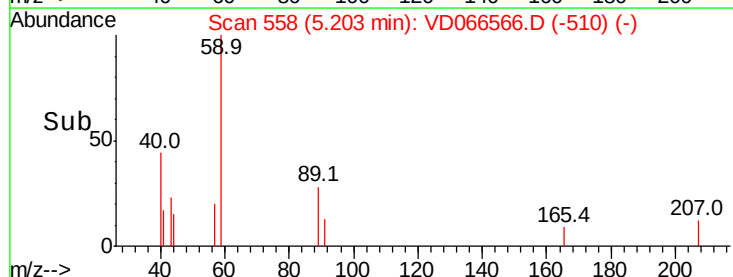
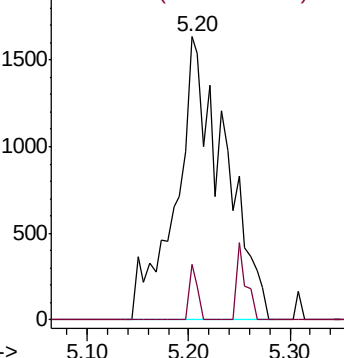
59 100

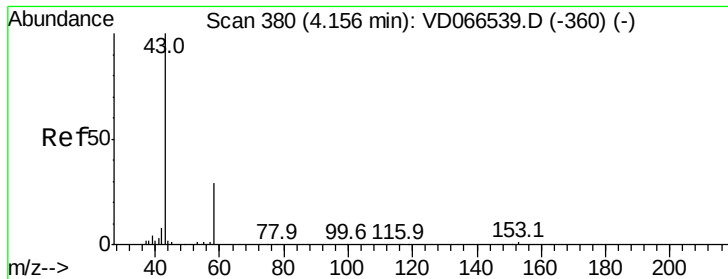
57 3.3 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 2.947 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

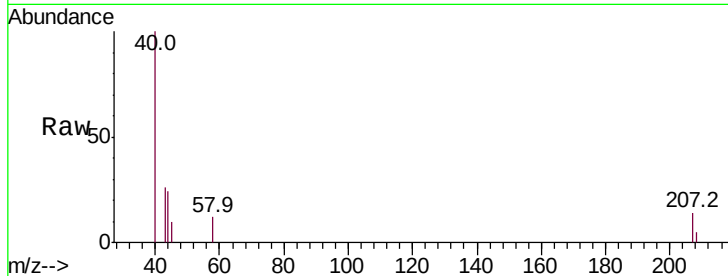
1451-52

Tot Ion: 43 Resp: 2644

Ion Ratio Lower Upper

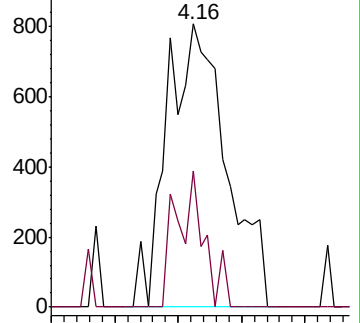
43 100

58 48.1 22.9 34.3#

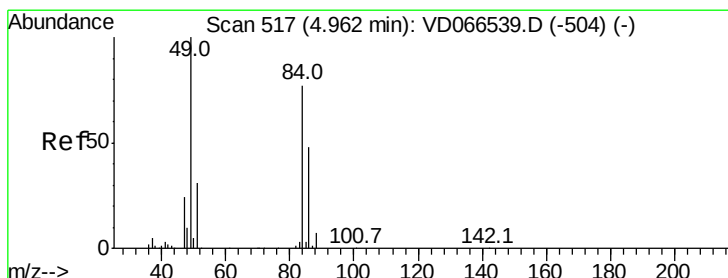
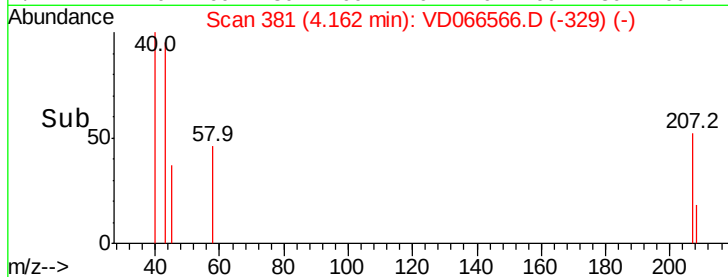


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



Time--> 4.05 4.10 4.15 4.20 4.25



#20

Methylene Chloride

Concen: 1.387 ug/l

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Tgt Ion: 84 Resp: 38252

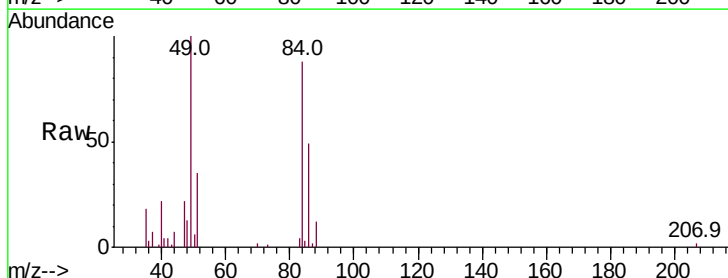
Ion Ratio Lower Upper

84 100

49 113.5 104.3 156.5

51 39.4 32.2 48.4

86 56.0 50.0 75.0

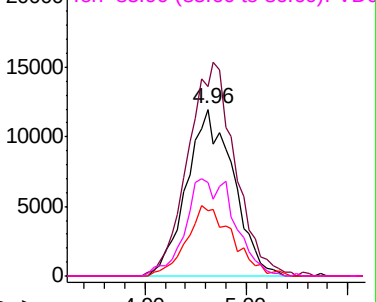


Abundance Ion 83.90 (83.60 to 84.60): VDC

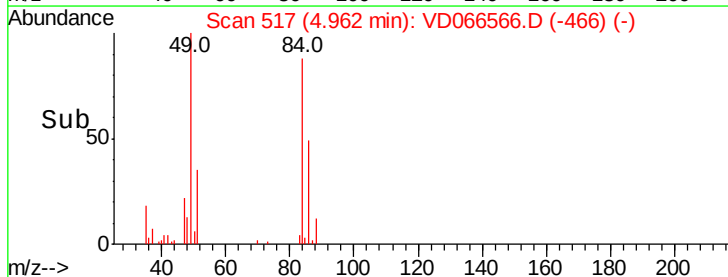
Ion 48.90 (48.60 to 49.60): VDC

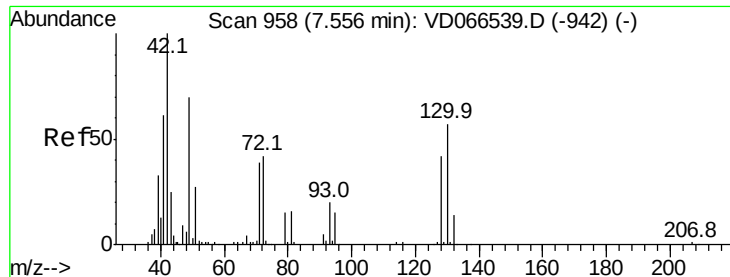
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



Time--> 4.90 5.00

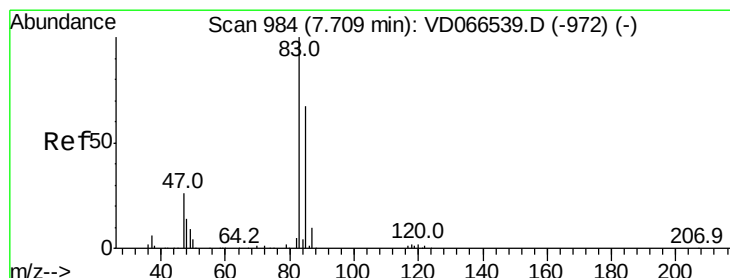
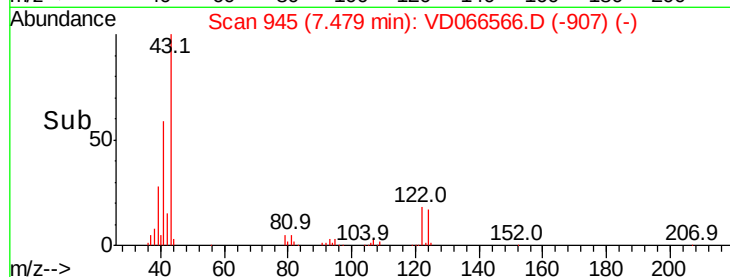
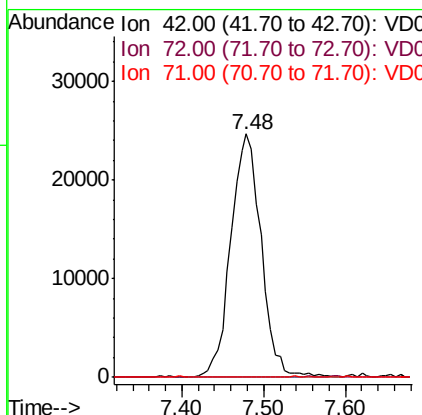
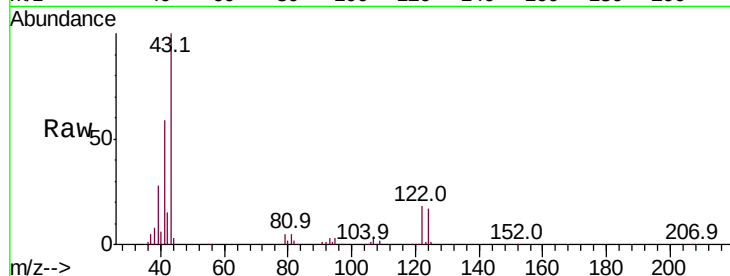




#29
Tetrahydrofuran
Concen: 85.100 ug/l
RT: 7.48 min Scan# 945
Delta R.T. -0.08 min
Lab File: VD066566.D
Acq: 04 Sep 2020 16:40

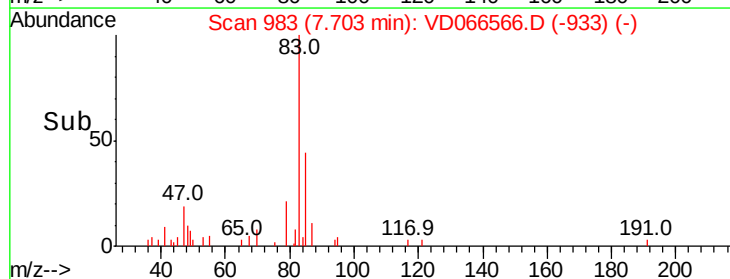
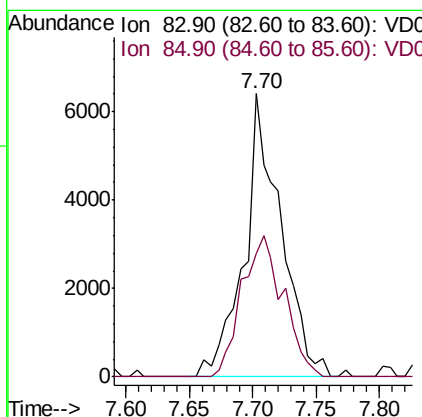
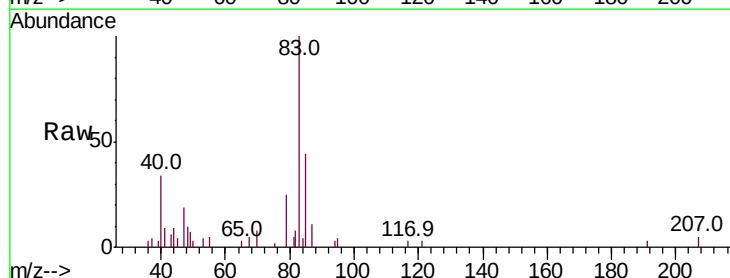
Instrument :
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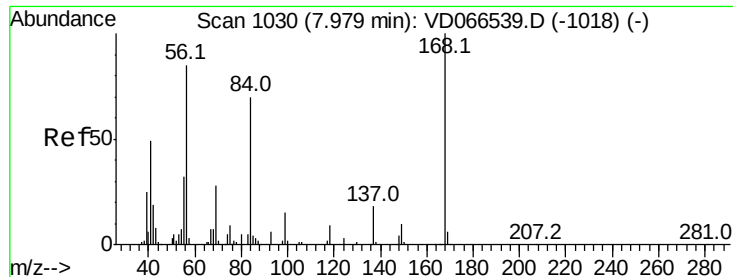
Tot Ion: 42 Resp: 63841
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.0#
71 0.0 31.9 47.9#



#30
Chloroform
Concen: 1.409 ug/l
RT: 7.70 min Scan# 983
Delta R.T. -0.01 min
Lab File: VD066566.D
Acq: 04 Sep 2020 16:40

Tgt Ion: 83 Resp: 12833
Ion Ratio Lower Upper
83 100
85 43.7 53.6 80.4#

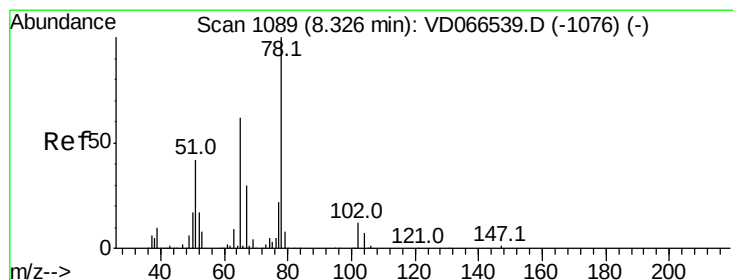
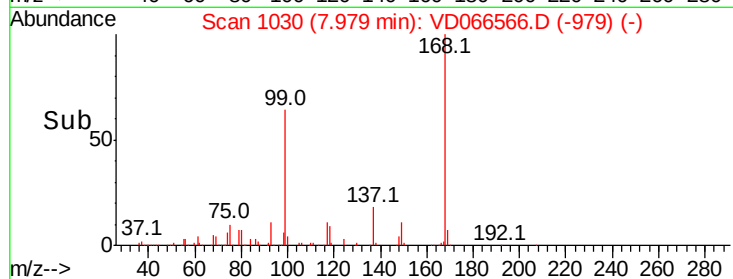
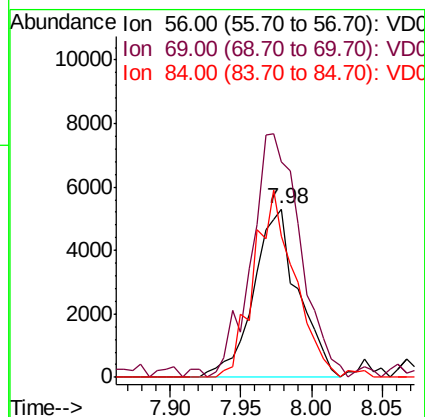
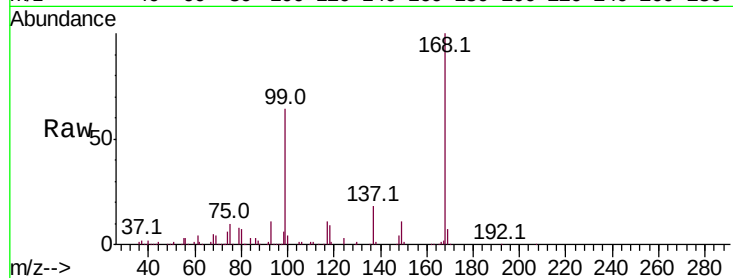




#31
Cyclohexane
Concen: 1.477 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD066566.D
Acq: 04 Sep 2020 16:40

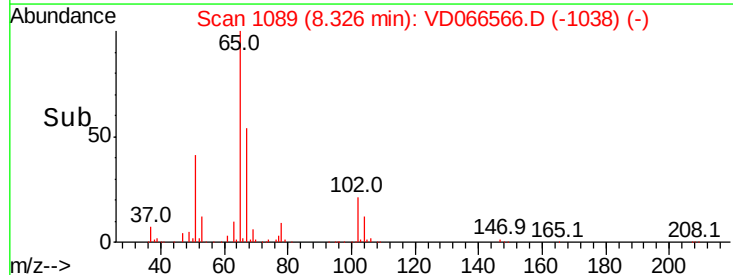
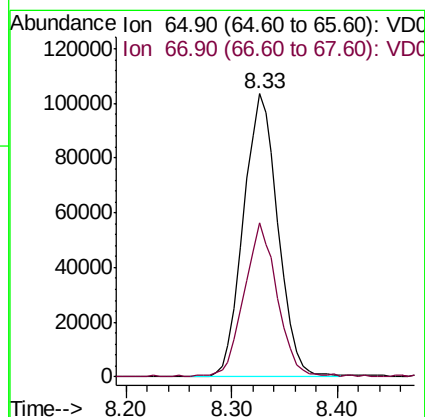
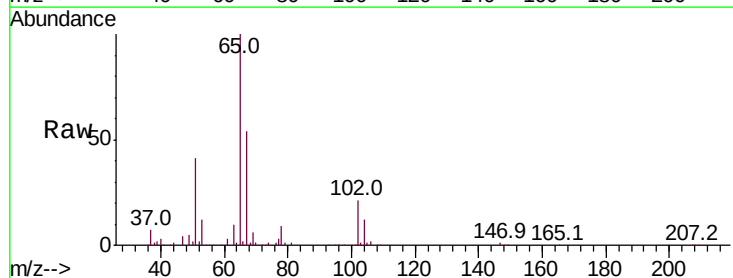
Instrument :
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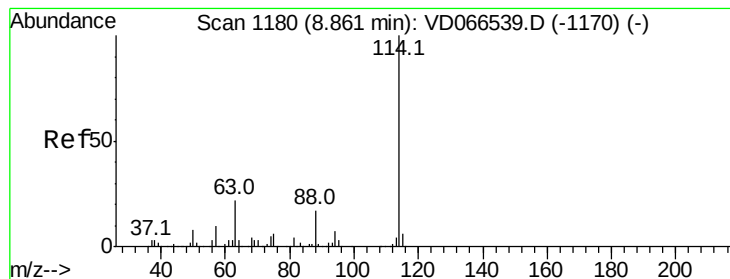
Tot Ion: 56 Resp: 11752
Ion Ratio Lower Upper
56 100
69 122.8 26.3 39.5#
84 83.8 66.1 99.1



#33
1,2-Dichloroethane-d4
Concen: 48.109 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VD066566.D
Acq: 04 Sep 2020 16:40

Tgt Ion: 65 Resp: 234621
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

1451-52

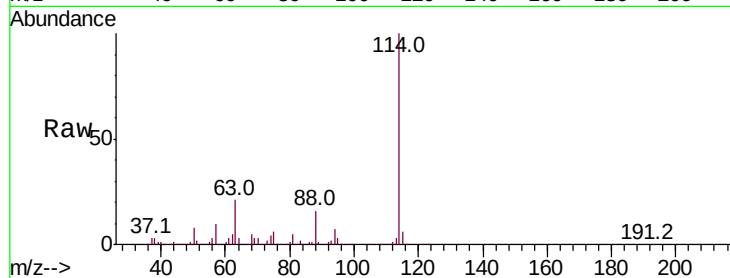
Tot Ion:114 Resp: 685536

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.2

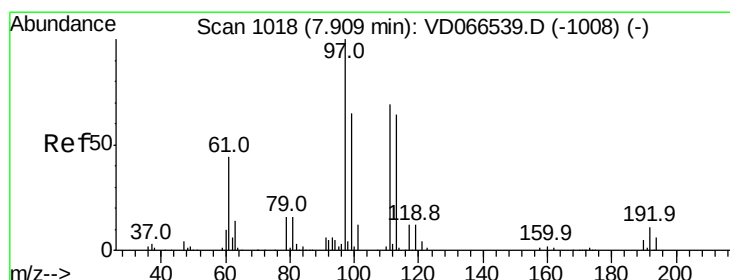
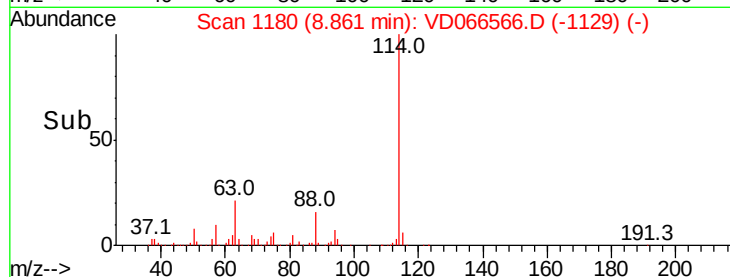
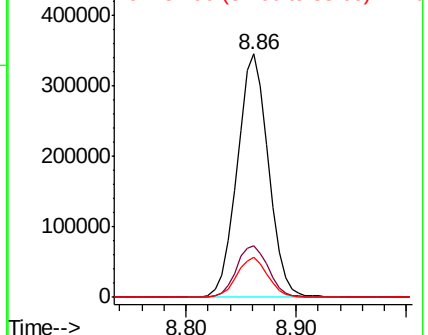
88 16.3 0.0 33.2



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: 48.127 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

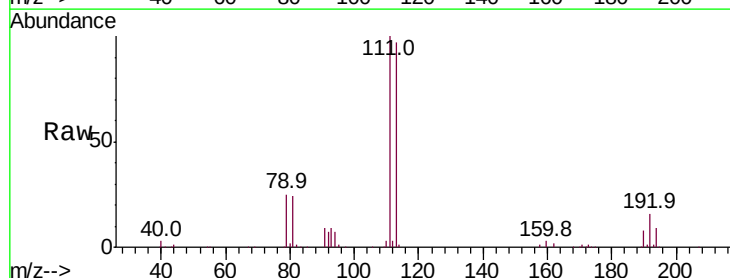
Tgt Ion:113 Resp: 222573

Ion Ratio Lower Upper

113 100

111 104.7 83.2 124.8

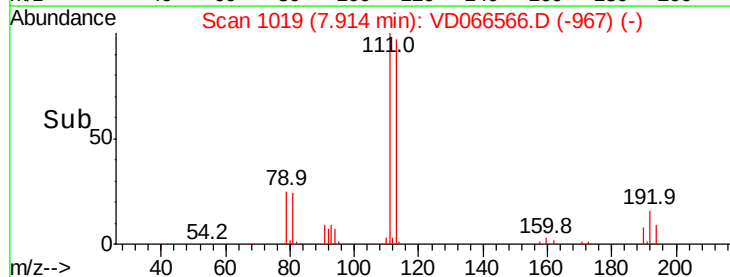
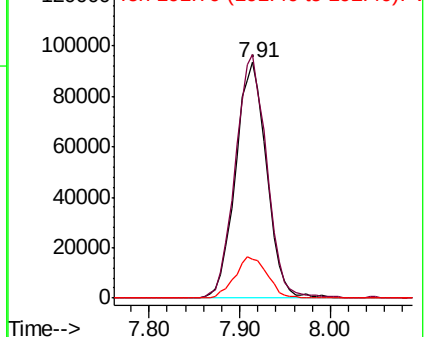
192 18.2 13.7 20.5

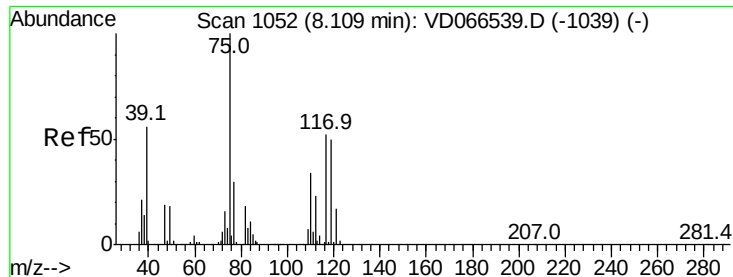


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.340 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

1451-52

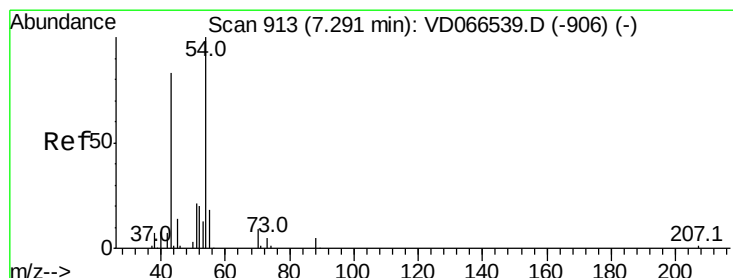
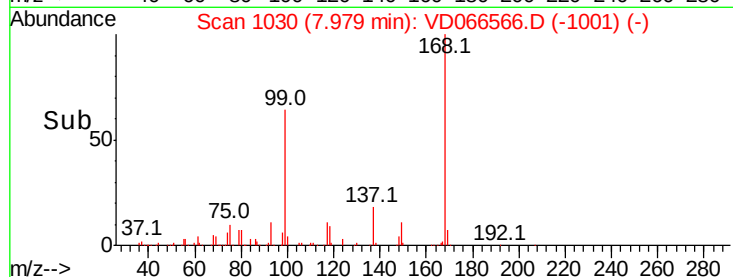
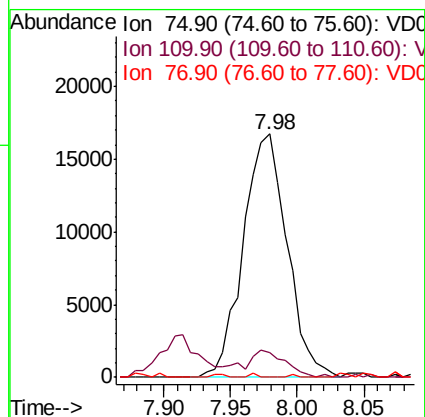
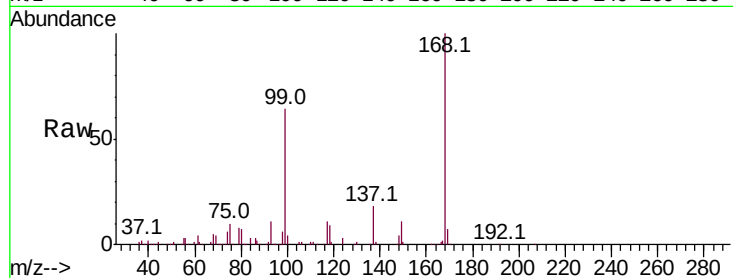
Tot Ion: 75 Resp: 38095

Ion Ratio Lower Upper

75 100

110 8.3 17.3 52.0#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 147.009 ug/l

RT: 7.48 min Scan# 945

Delta R.T. 0.19 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

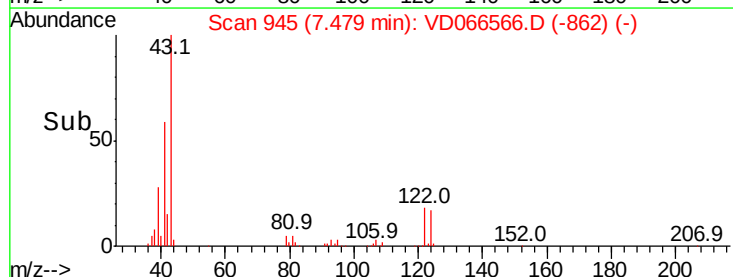
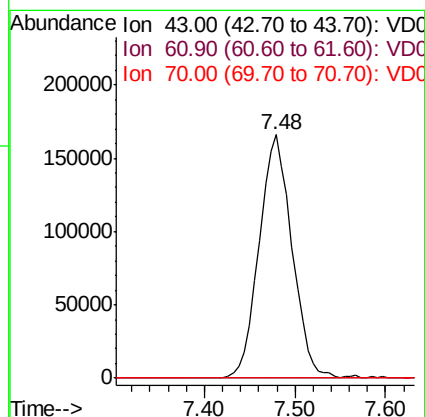
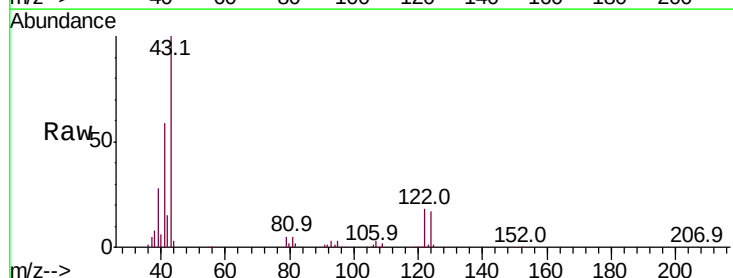
Tgt Ion: 43 Resp: 417634

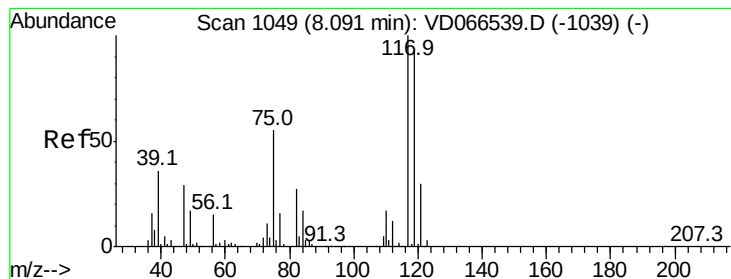
Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.8#

70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.007 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :

MSVOA_D

ClientSampled :

1451-52

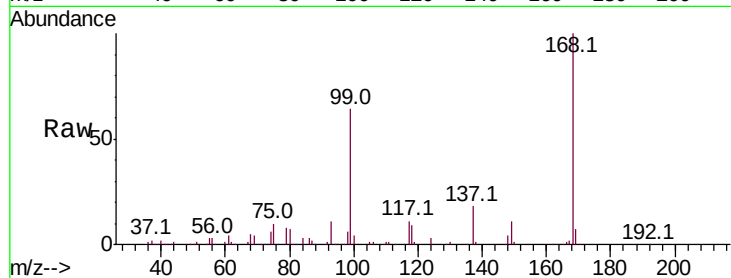
Tot Ion:117 Resp: 45302

Ion Ratio Lower Upper

117 100

119 5.8 73.9 110.9#

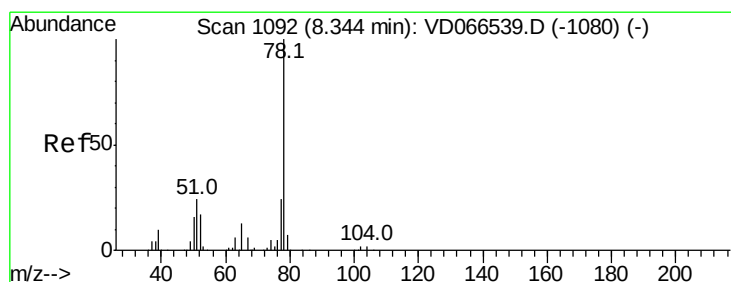
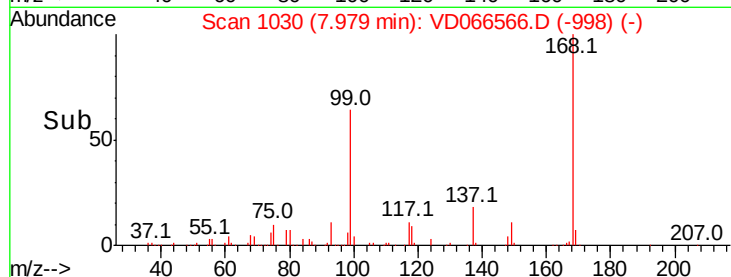
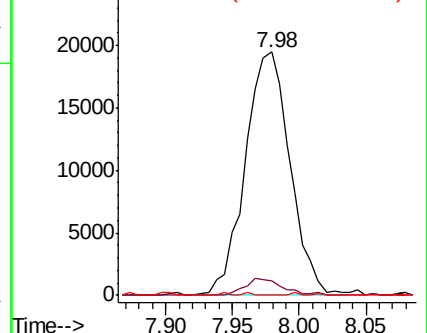
121 0.0 24.1 36.1#



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: 3.027 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VD066566.D

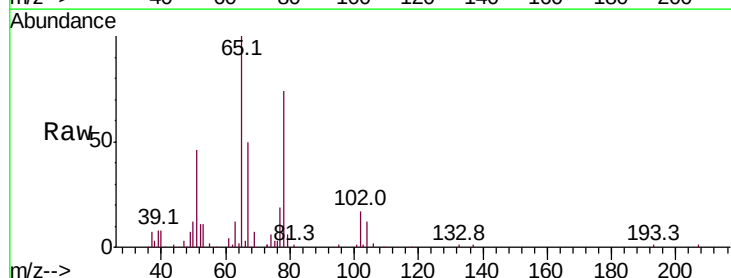
Acq: 04 Sep 2020 16:40

Tgt Ion: 78 Resp: 59148

Ion Ratio Lower Upper

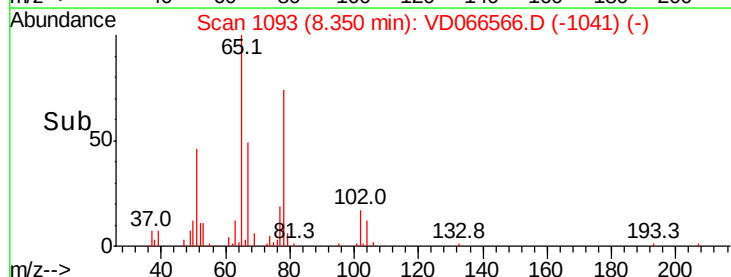
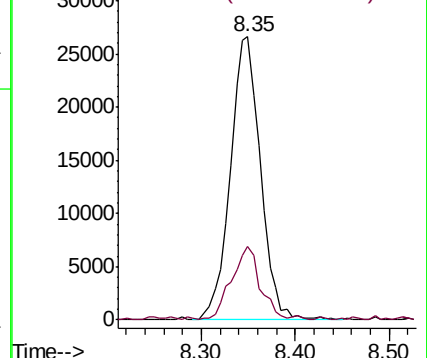
78 100

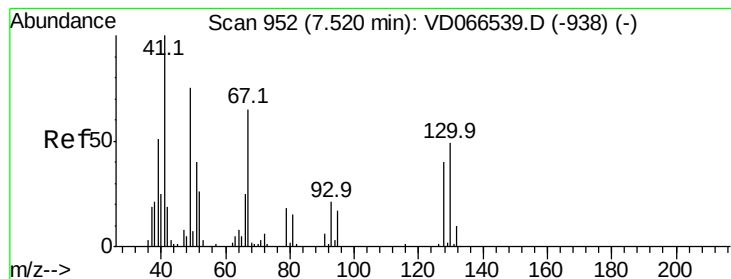
77 25.3 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V





#41

Methacrylonitrile

Concen: 188.984 ug/l

RT: 7.48 min Scan# 945

Delta R.T. -0.04 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

1451-52

Tot Ion: 41 Resp: 259881

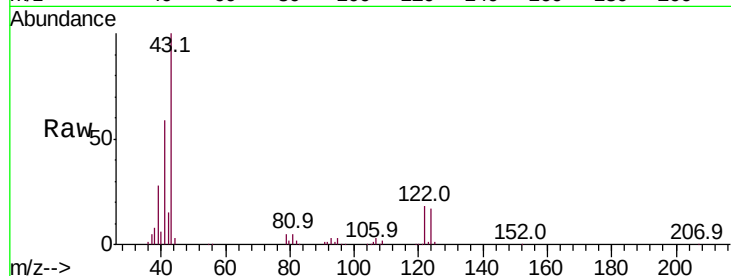
Ion Ratio Lower Upper

41 100

39 46.2 53.6 80.4#

67 0.0 59.2 88.8#

52 0.0 26.8 40.2#

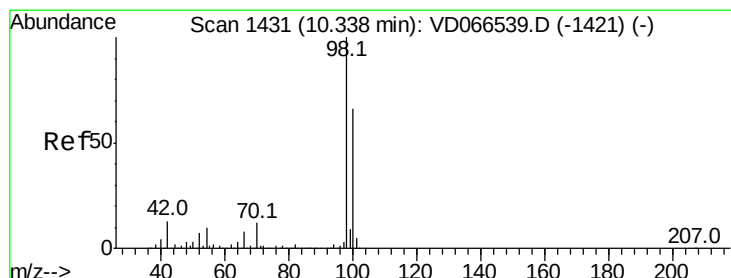
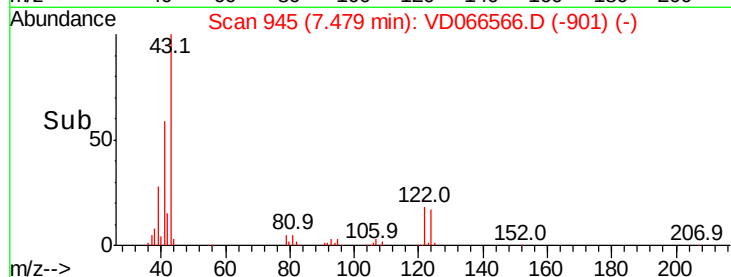
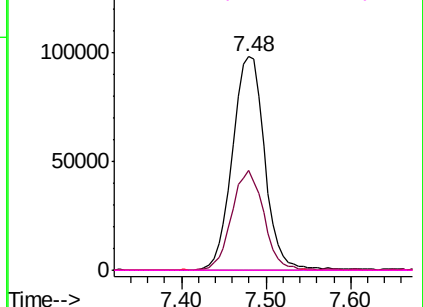


Abundance Ion 41.00 (40.70 to 41.70): VDC

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: 49.290 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066566.D

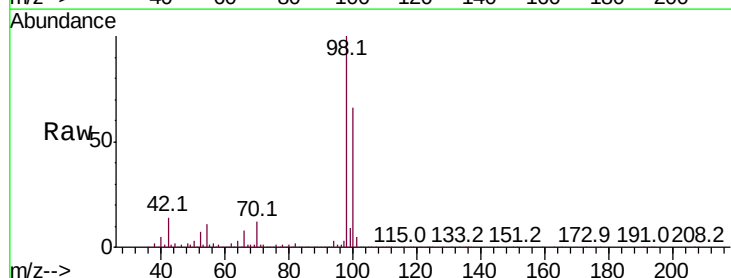
Acq: 04 Sep 2020 16:40

Tgt Ion: 98 Resp: 814737

Ion Ratio Lower Upper

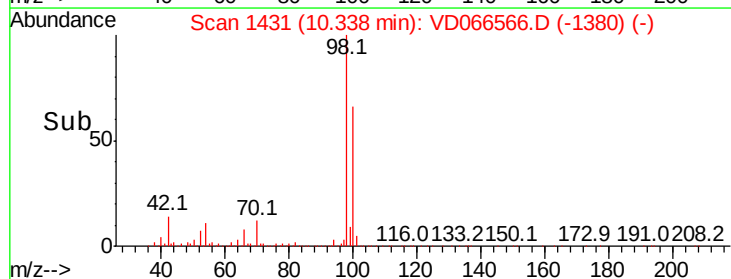
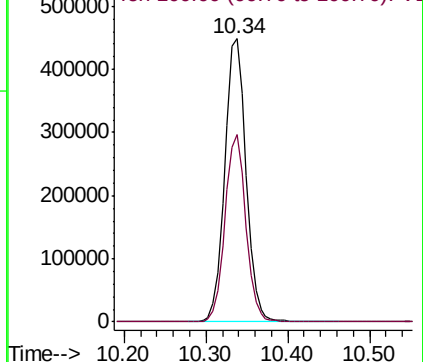
98 100

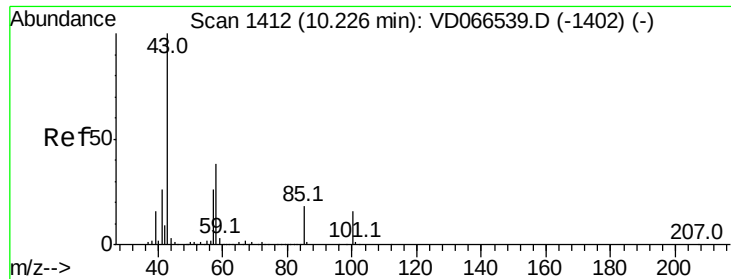
100 64.7 52.9 79.3



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: 1.008 ug/l

RT: 10.22 min Scan# 1411

Delta R.T. -0.01 min

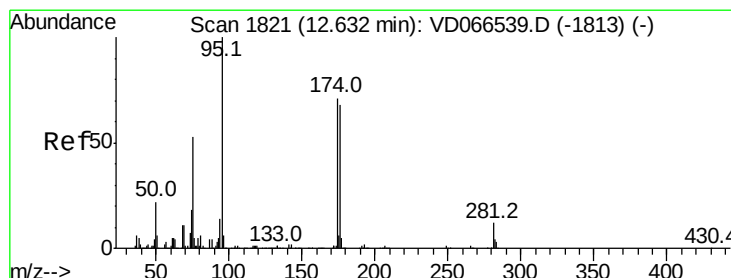
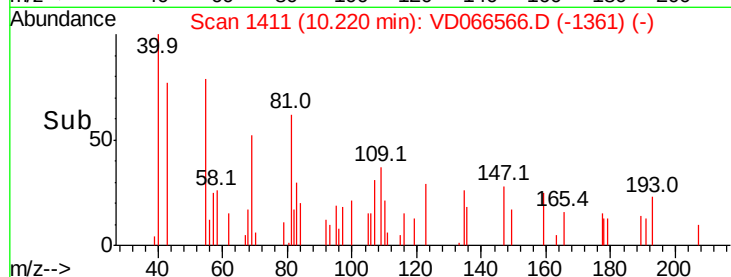
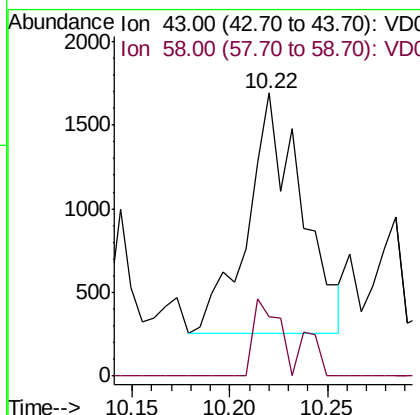
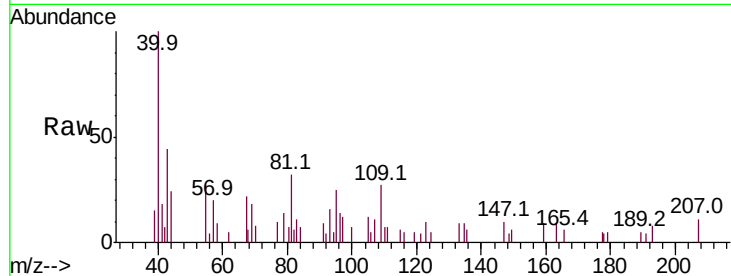
Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :
MSVOA_D
ClientSampleId :
1451-52

Tot Ion: 43 Resp: 2769

Ion	Ratio	Lower	Upper
43	100		
58	14.8	30.5	45.7#



#62

4-Bromofluorobenzene

Concen: 48.083 ug/l

RT: 12.63 min Scan# 1821

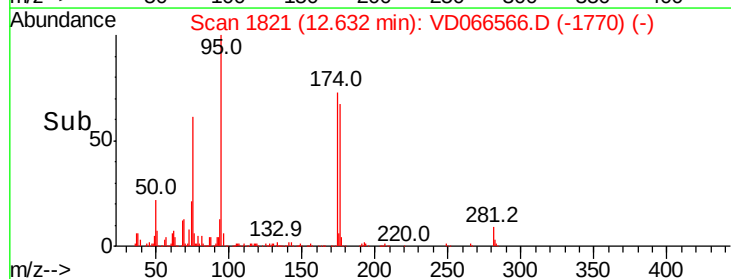
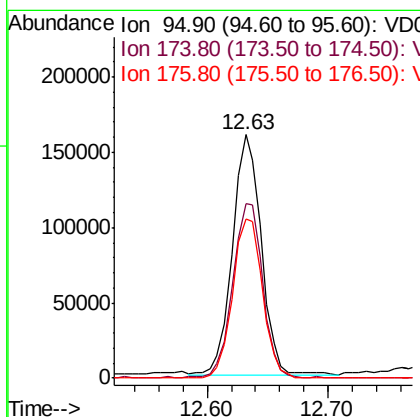
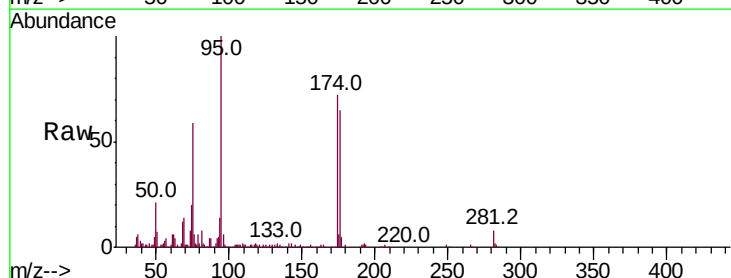
Delta R.T. -0.00 min

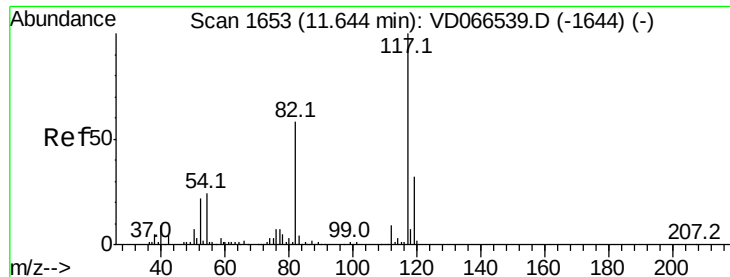
Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Tgt Ion: 95 Resp: 263538

Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	155.8
176	69.4	0.0	148.6

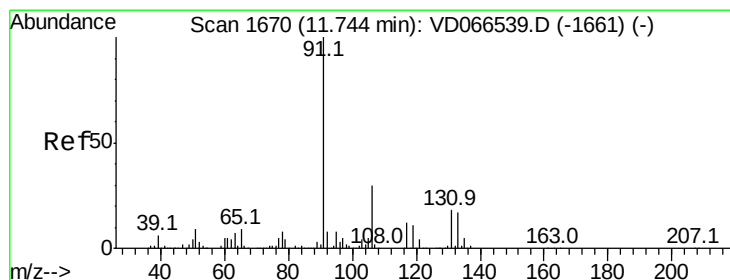
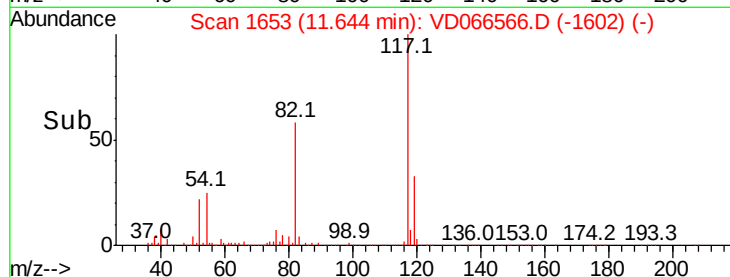
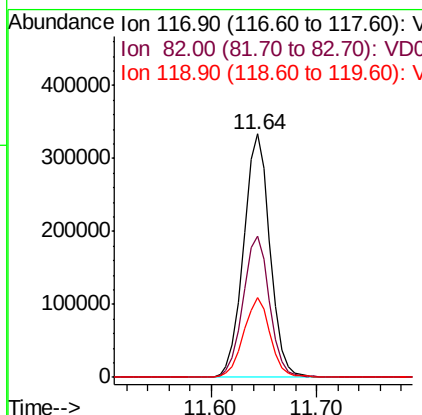
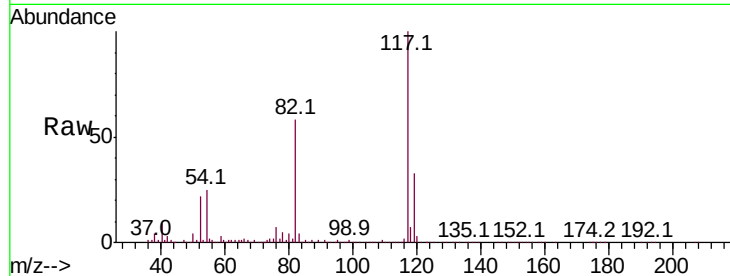




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066566.D
Acq: 04 Sep 2020 16:40

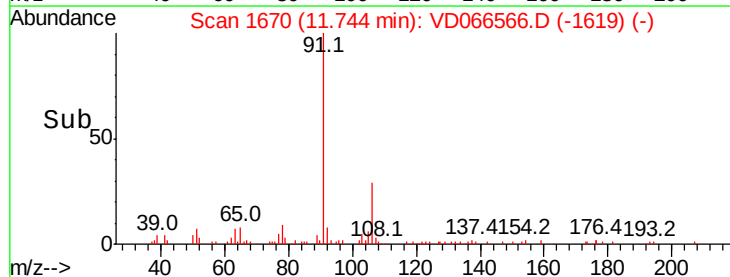
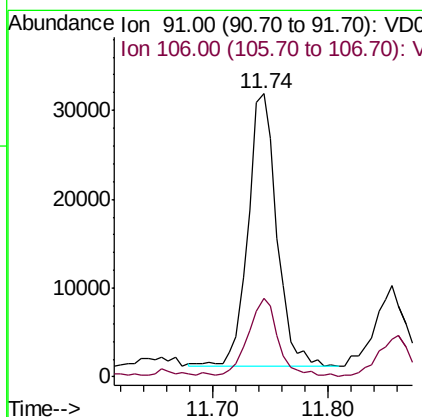
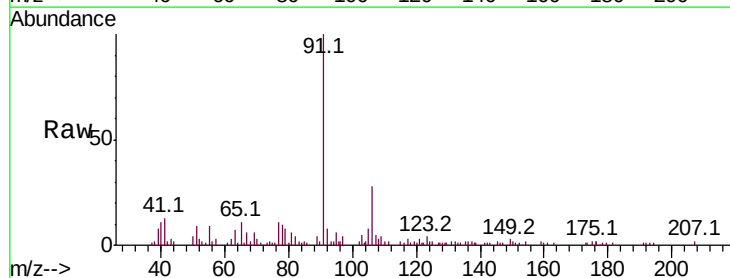
Instrument :
MSVOA_D
ClientSampleId :
1451-52

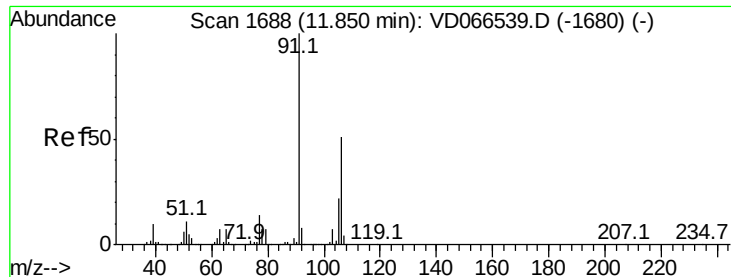
Tot Ion:117 Resp: 576594
Ion Ratio Lower Upper
117 100
82 57.8 46.2 69.2
119 32.8 25.8 38.8



#67
Ethyl Benzene
Concen: 2.418 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD066566.D
Acq: 04 Sep 2020 16:40

Tgt Ion: 91 Resp: 52842
Ion Ratio Lower Upper
91 100
106 29.1 24.3 36.5

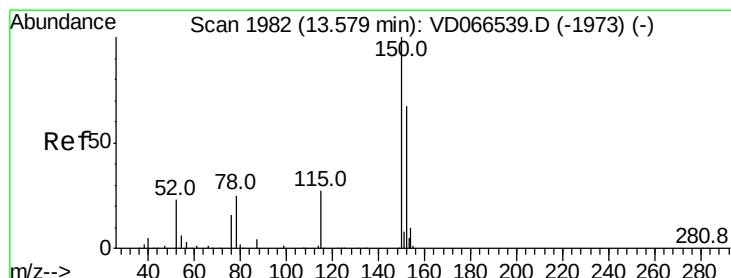
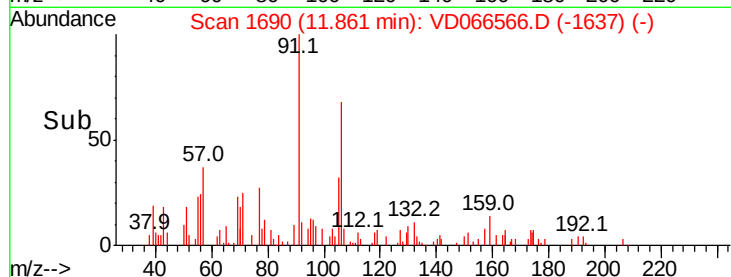
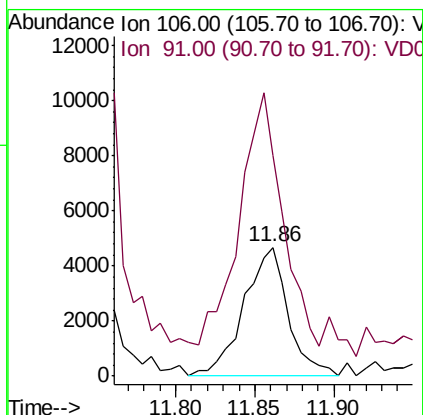
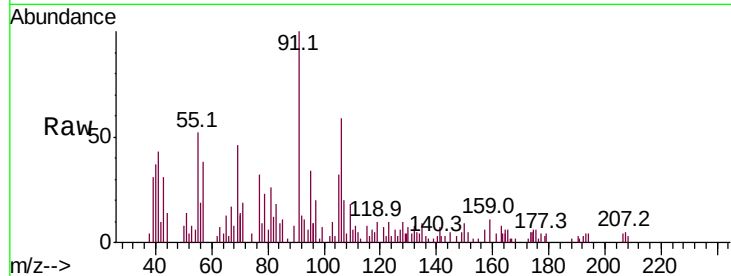




#68
m/p-Xvlenes
Concen: 1.124 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VD066566.D
Acq: 04 Sep 2020 16:40

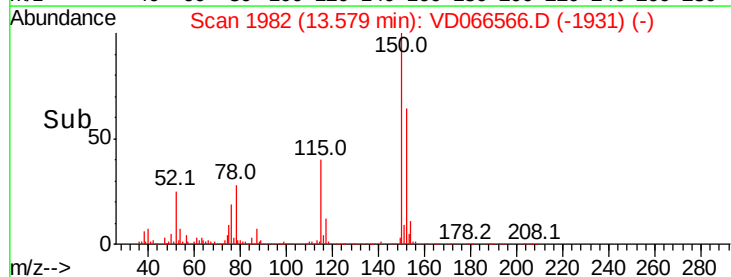
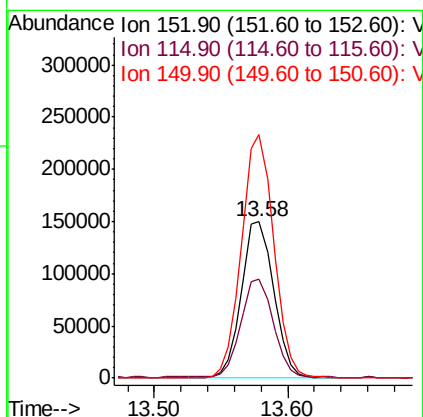
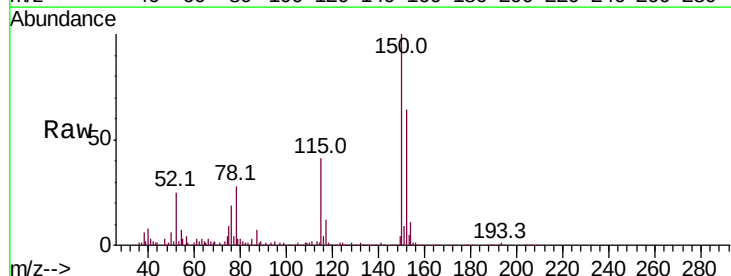
Instrument :
MSVOA_D
ClientSampleId :
1451-52

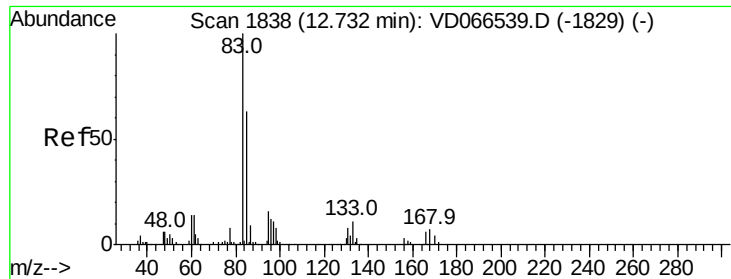
Tot Ion:106 Resp: 9122
Ion Ratio Lower Upper
106 100
91 187.2 162.4 243.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066566.D
Acq: 04 Sep 2020 16:40

Tgt Ion:152 Resp: 249593
Ion Ratio Lower Upper
152 100
115 63.1 30.4 91.2
150 155.7 0.0 345.8





#75

1,1,2,2-Tetrachloroethane

Concen: 8.390 ug/l

RT: 12.77 min Scan# 1845

Delta R.T. 0.04 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

1451-52

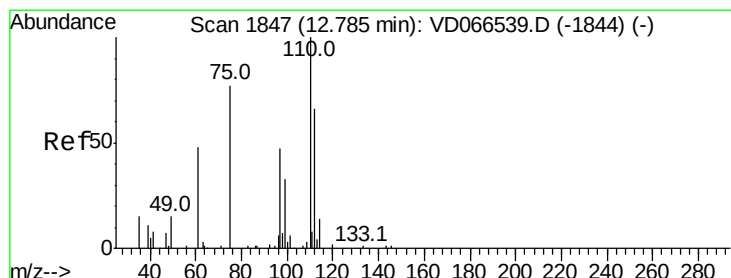
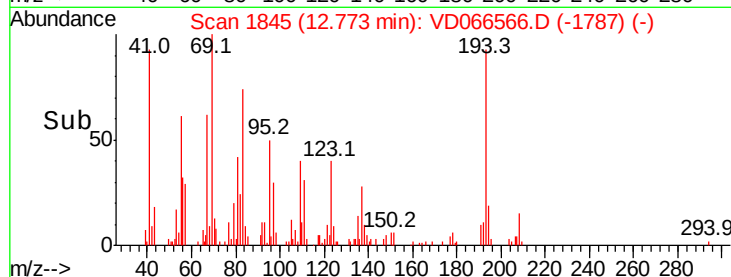
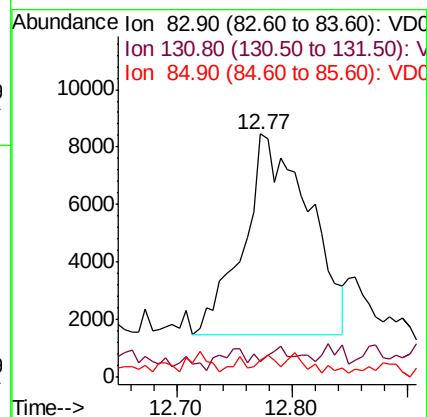
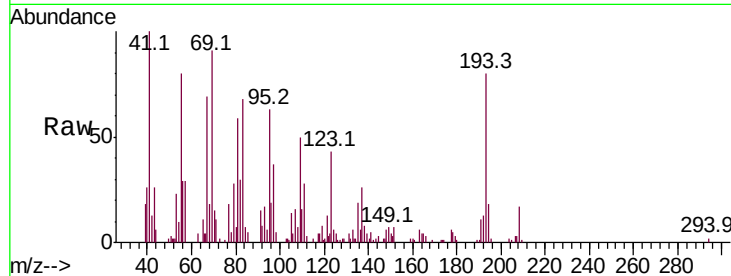
Tot Ion: 83 Resp: 27392

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 2.1 32.1 96.3#



#76

1,2,3-Trichloropropane

Concen: 62.486 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066566.D

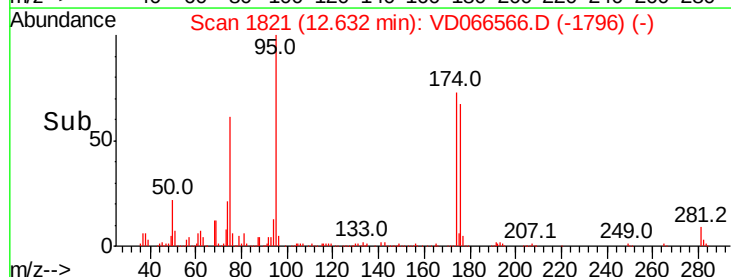
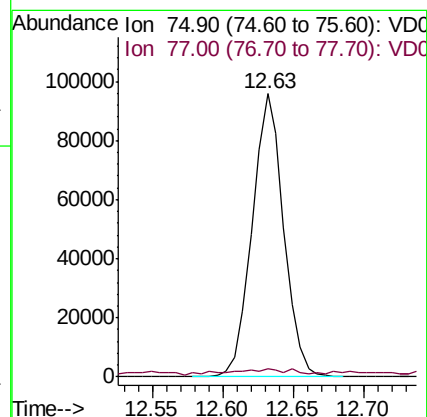
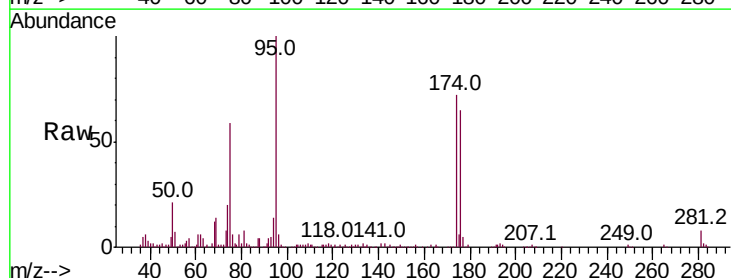
Acq: 04 Sep 2020 16:40

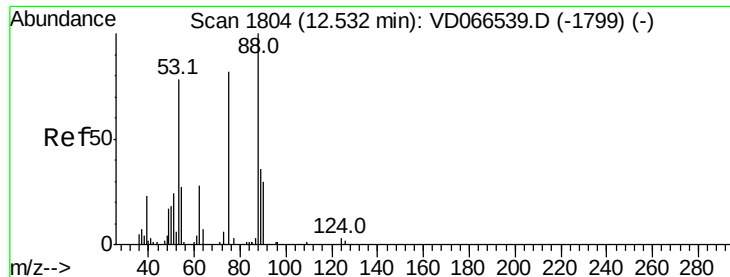
Tgt Ion: 75 Resp: 149993

Ion Ratio Lower Upper

75 100

77 3.7 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 145.883 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066566.D

Acq: 04 Sep 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

1451-52

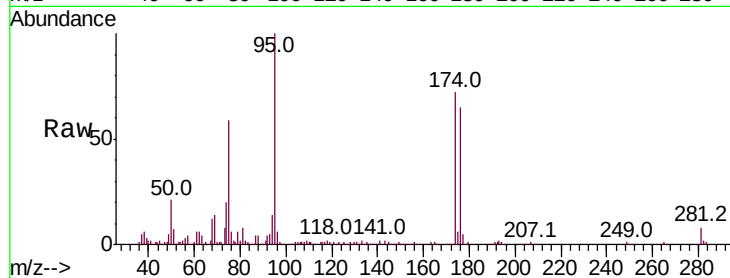
Tot Ion: 75 Resp: 149993

Ion Ratio Lower Upper

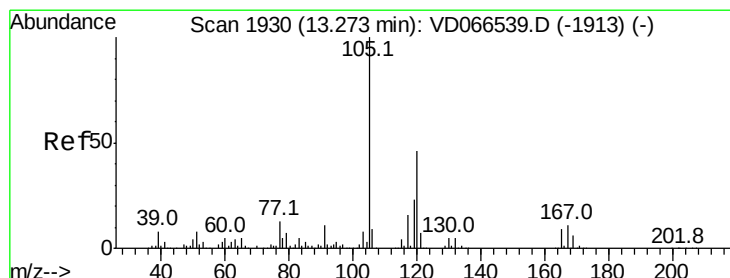
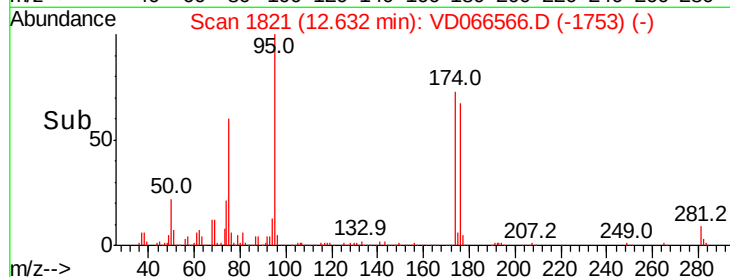
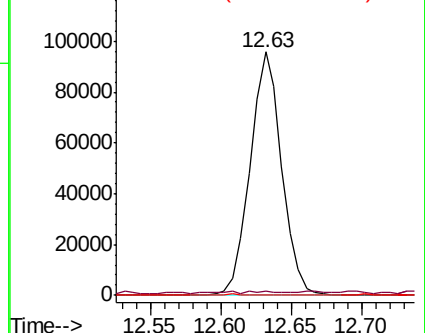
75 100

53 0.8 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



#84

1,2,4-Trimethylbenzene

Concen: 1.121 ug/l

RT: 13.27 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VD066566.D

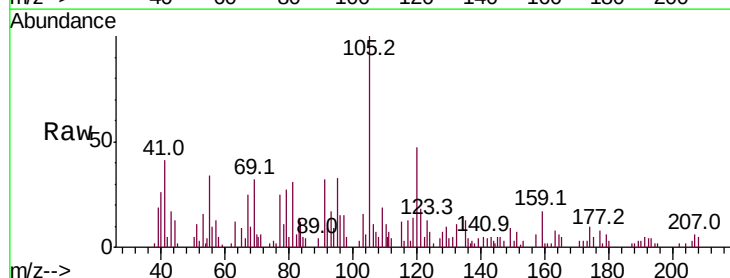
Acq: 04 Sep 2020 16:40

Tgt Ion:105 Resp: 17367

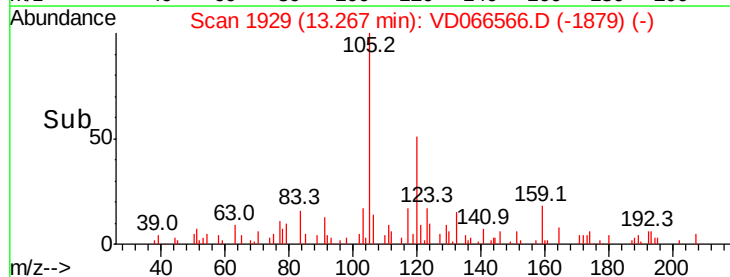
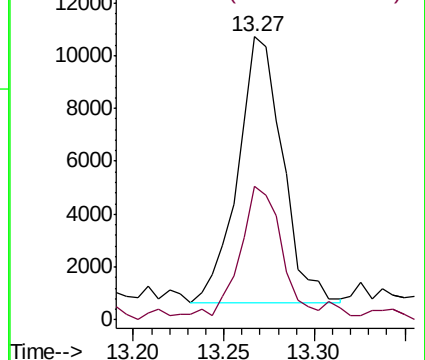
Ion Ratio Lower Upper

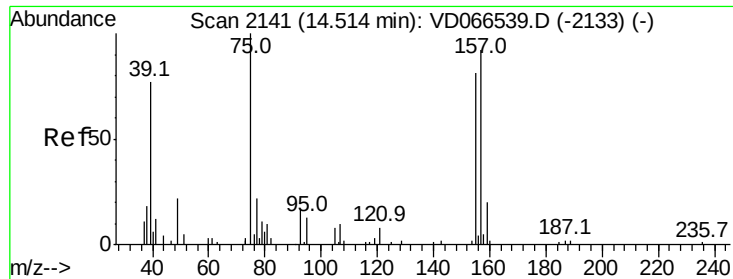
105 100

120 42.7 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

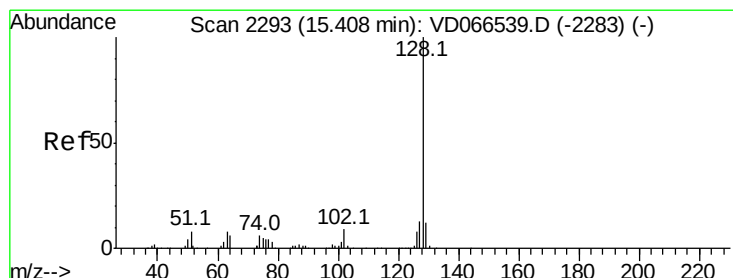
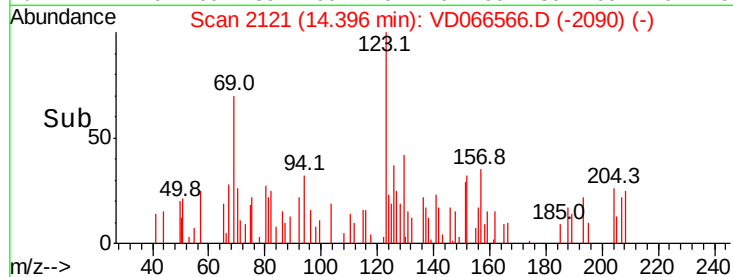
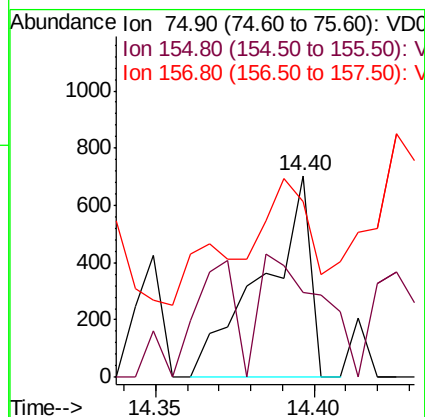
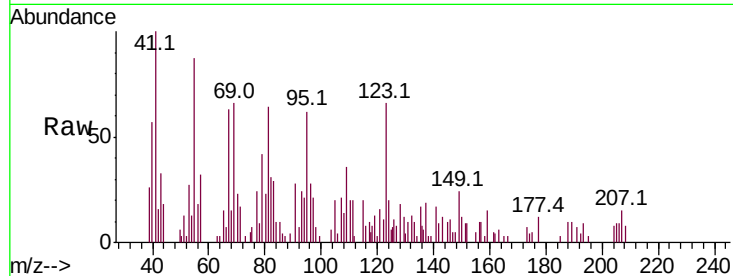




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.313 ug/l
 RT: 14.40 min Scan# 2121
 Delta R.T. -0.12 min
 Lab File: VD066566.D
 Acq: 04 Sep 2020 16:40

Instrument :
 MSVOA_D
 ClientSampled :
 1451-52

Tot Ion: 75 Resp: 728
 Ion Ratio Lower Upper
 75 100
 155 78.8 39.3 117.8
 157 71.7 46.0 137.8



#95
 Naphthalene
 Concen: 10.089 ug/l
 RT: 15.41 min Scan# 2293
 Delta R.T. -0.00 min
 Lab File: VD066566.D
 Acq: 04 Sep 2020 16:40

Tgt Ion: 128 Resp: 75638
 Ion Ratio Lower Upper
 128 100
 127 13.6 10.7 16.1
 129 13.6 9.1 13.7

