

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080720\
 Data File : VD066159.D
 Acq On : 07 Aug 2020 15:52
 Operator : VA/SY
 Sample : L3575-02RE
 Misc : 5.92G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-016RE

Quant Time: Aug 08 00:39:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:49:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	248608	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	438806	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	508572	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	278002	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	117484	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
35) Dibromofluoromethane	7.91	113	54069	19.45	ug/l	0.00
Spiked Amount			Recovery	=	38.90%	
50) Toluene-d8	10.34	98	546237	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
62) 4-Bromofluorobenzene	12.64	95	240744	65.11	ug/l	0.00
Spiked Amount			Recovery	=	130.22%	

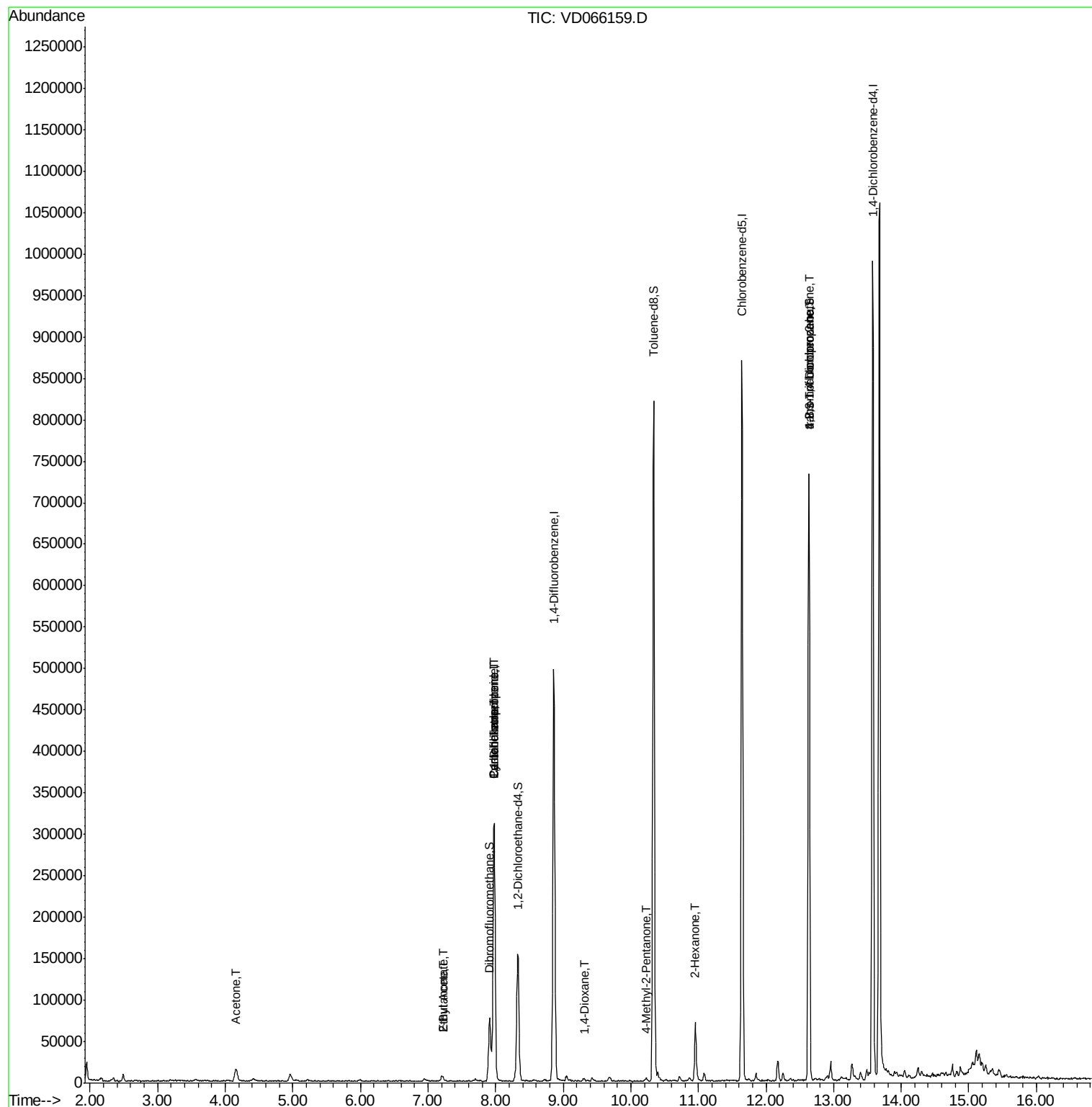
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.22	59	1398	Below Cal	#	87
16) Acetone	4.16	43	27664	65.735	ug/l	89
20) Methylene Chloride	4.96	84	3097	Below Cal		94
25) 2-Butanone	7.22	43	6390	10.323	ug/l	95
31) Cyclohexane	7.97	56	5070	1.305	ug/l #	29
36) 1,1-Dichloropropene	7.98	75	16629	4.033	ug/l #	51
37) Ethyl Acetate	7.22	43	6390	3.911	ug/l #	66
38) Carbon Tetrachloride	7.97	117	24657	5.362	ug/l #	15
49) 1,4-Dioxane	9.31	88	63	3.182	ug/l #	1
51) 4-Methyl-2-Pentanone	10.23	43	2684	1.623	ug/l	100
59) 2-Hexanone	10.96	43	57261	49.345	ug/l #	24
76) 1,2,3-Trichloropropane	12.63	75	118339	51.045	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	118339	112.837	ug/l #	13

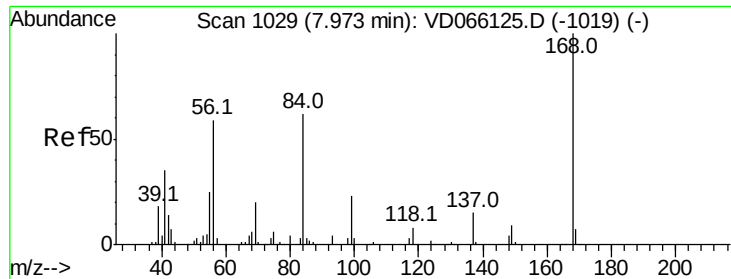
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 08 00:39:42 2020
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Instrument :

MSVOA_D

ClientSampleId :

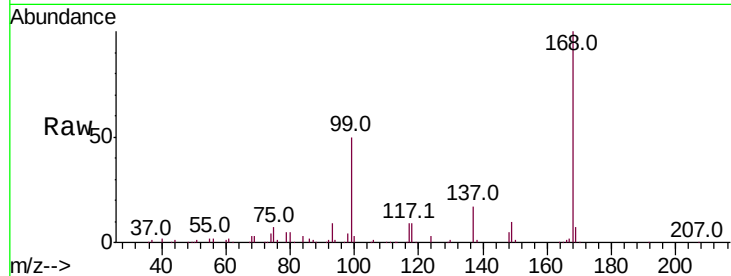
FK-0D015-03-016RE

Tot Ion:168 Resp: 248608

Ion Ratio Lower Upper

168 100

99 50.5 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

120000

100000

80000

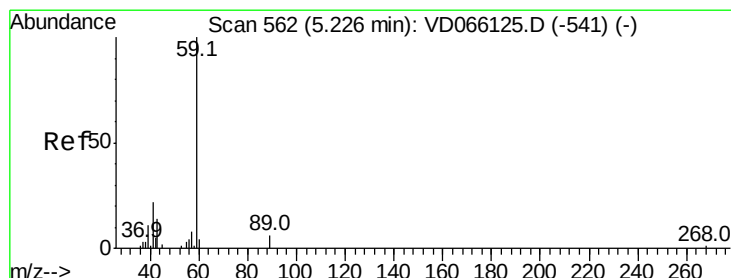
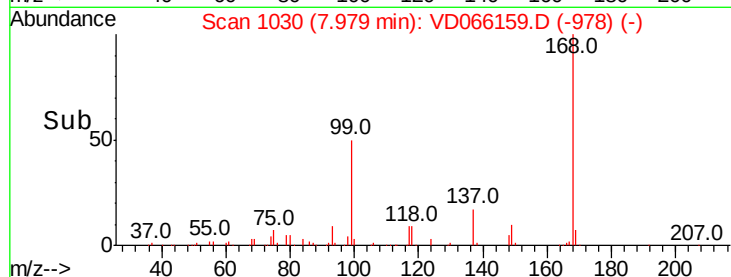
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.22 min Scan# 561

Delta R.T. -0.01 min

Lab File: VD066159.D

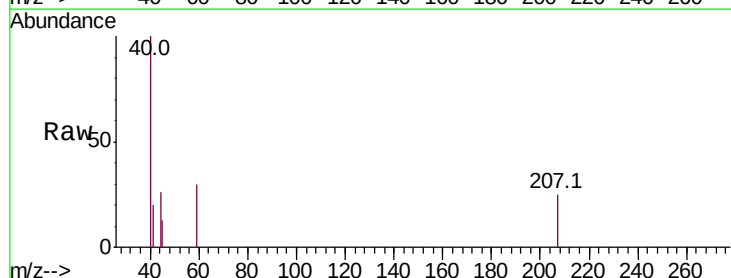
Acq: 07 Aug 2020 15:52

Tgt Ion: 59 Resp: 1398

Ion Ratio Lower Upper

59 100

57 4.1 7.0 10.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.22

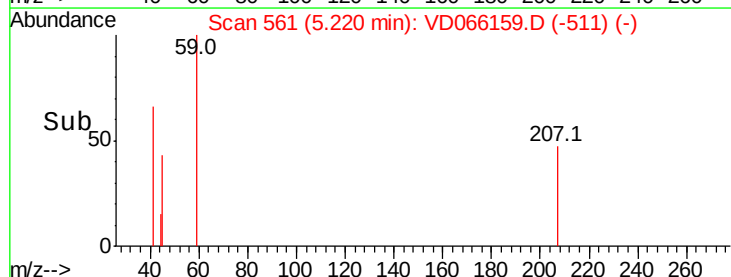
600

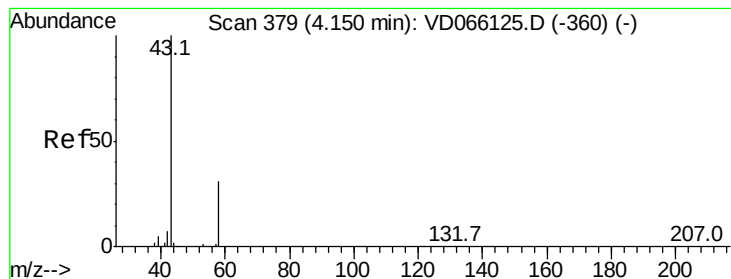
400

200

0

Time-->





#16

Acetone

Concen: 65.735 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.01 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Instrument :

MSVOA_D

ClientSampleId :

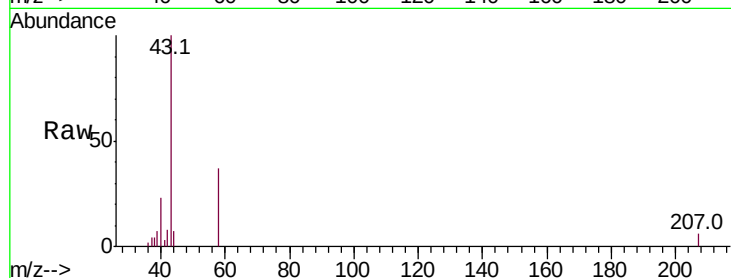
FK-0D015-03-016RE

Tot Ion: 43 Resp: 27664

Ion Ratio Lower Upper

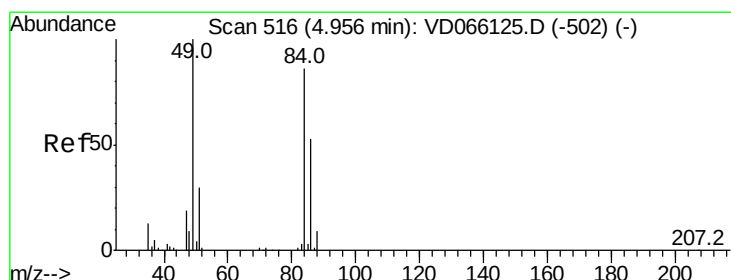
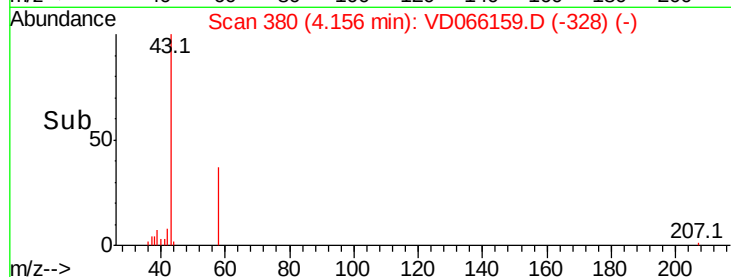
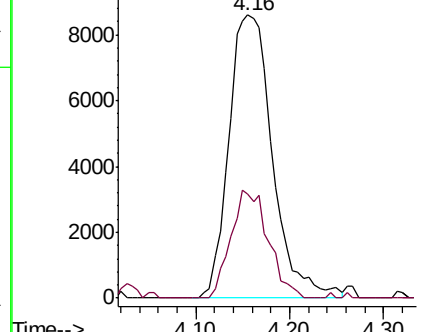
43 100

58 36.9 24.7 37.1



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: 4.96 min Scan# 516

Delta R.T. 0.00 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Tgt Ion: 84 Resp: 3097

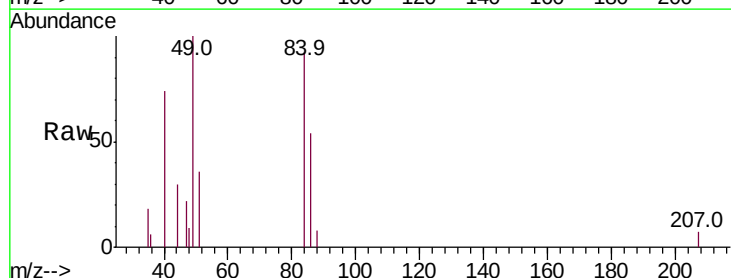
Ion Ratio Lower Upper

84 100

49 108.7 93.5 140.3

51 38.8 28.2 42.4

86 58.1 49.5 74.3

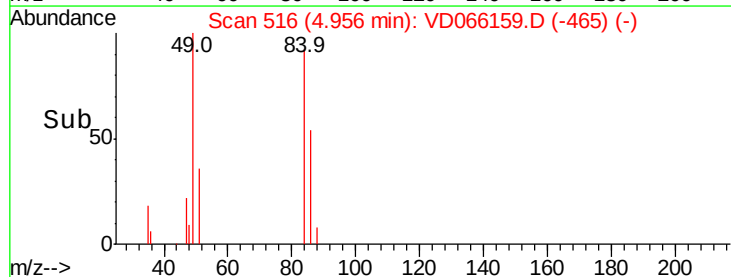
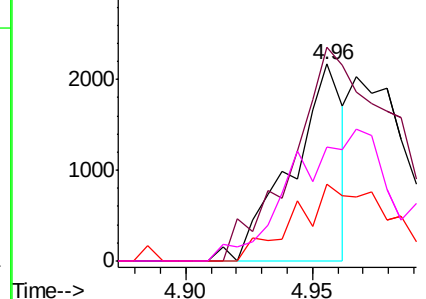


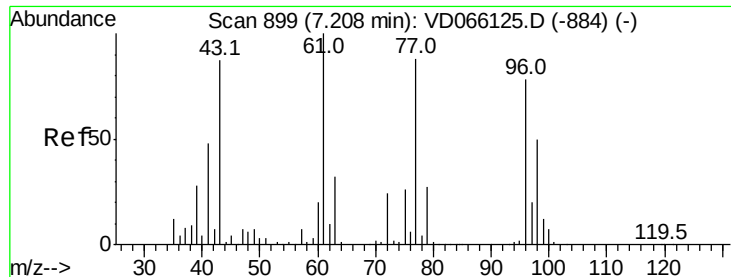
Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 10.323 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Instrument :

MSVOA_D

ClientSampleId :

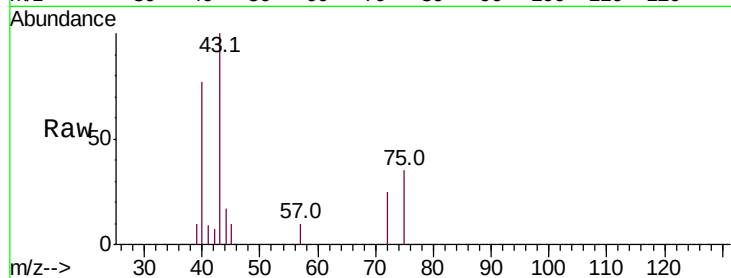
FK-0D015-03-016RE

Tot Ion: 43 Resp: 6390

Ion Ratio Lower Upper

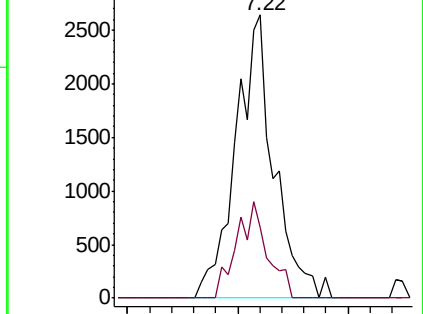
43 100

72 25.0 22.2 33.2

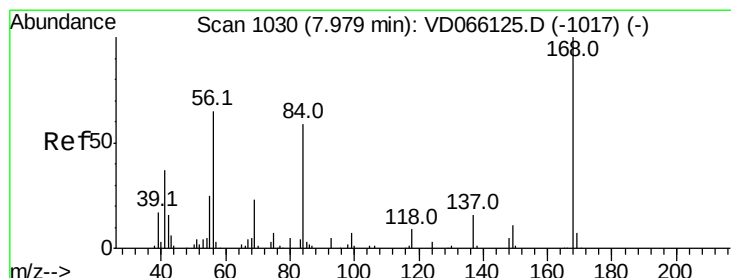
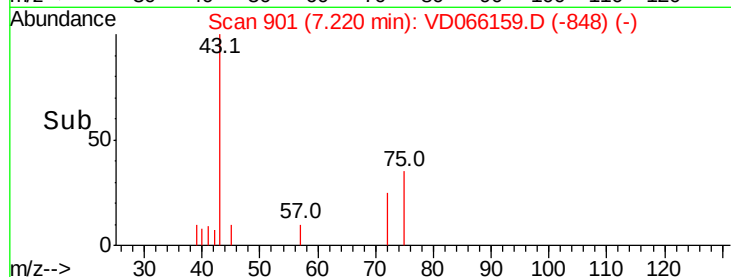


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#31

Cyclohexane

Concen: 1.305 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

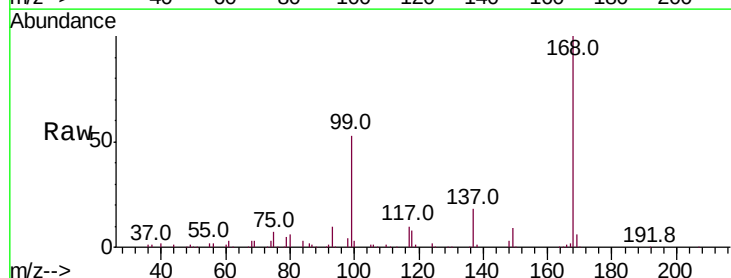
Tgt Ion: 56 Resp: 5070

Ion Ratio Lower Upper

56 100

69 142.2 28.8 43.2#

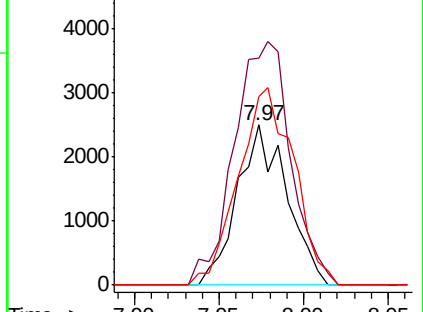
84 118.2 73.0 109.6#



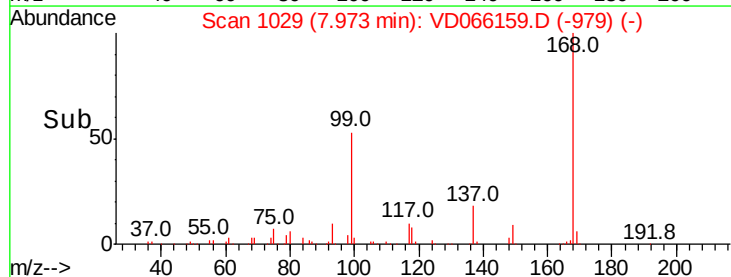
Abundance Ion 56.00 (55.70 to 56.70): VDC

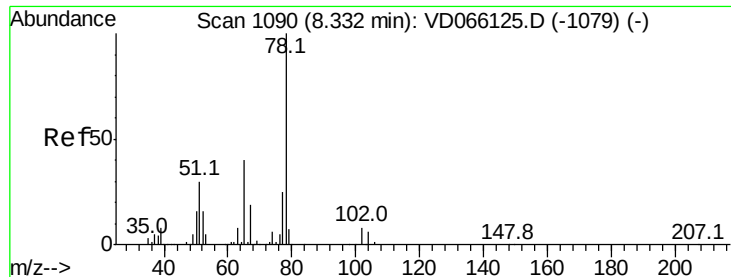
Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC



Time-->

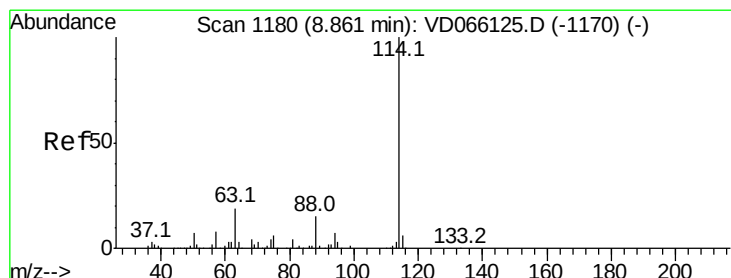
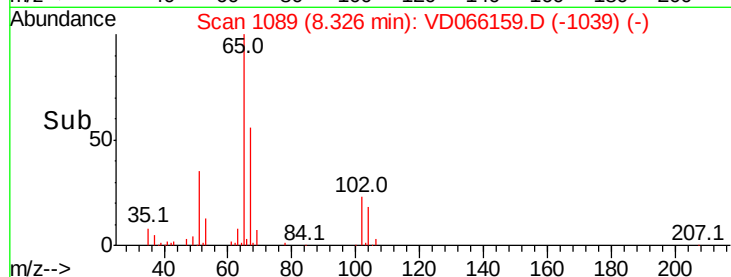
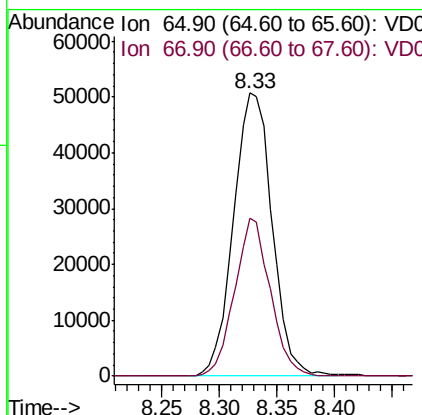
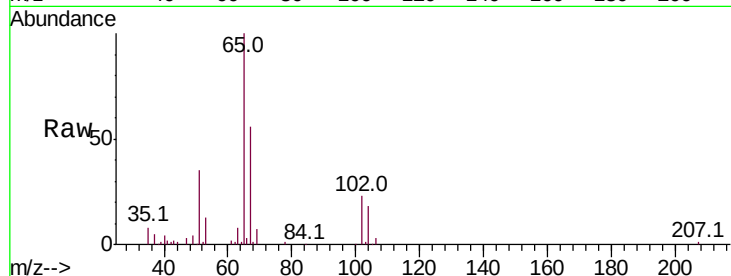




#33
 1,2-Dichloroethane-d4
 Concen: 52.969 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VD066159.D
 Acq: 07 Aug 2020 15:52

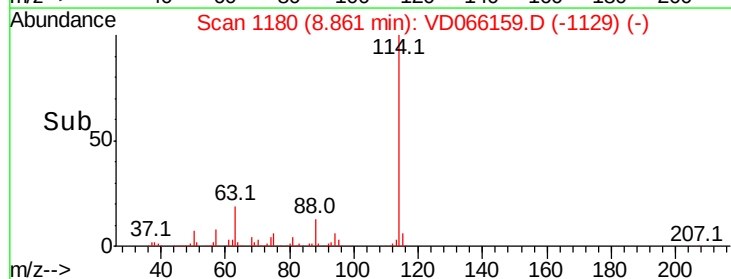
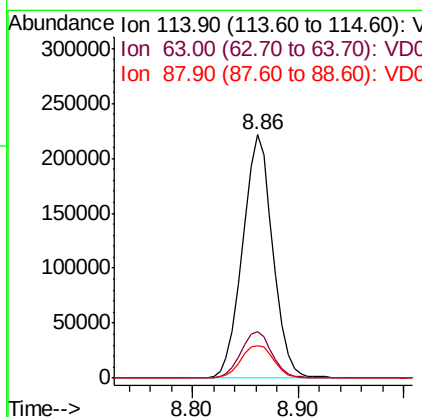
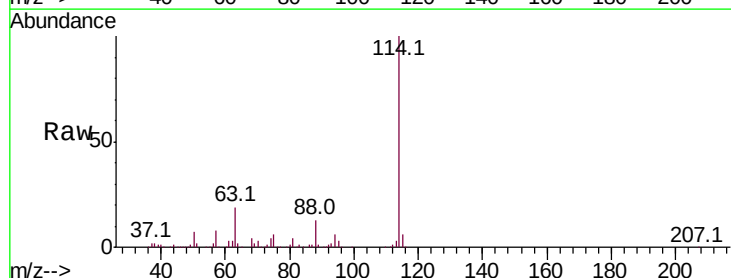
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-016RE

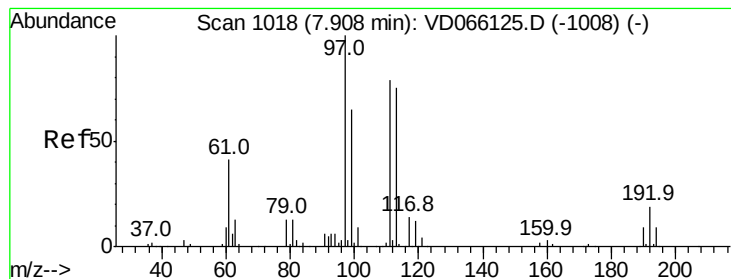
Tot Ion: 65 Resp: 117484
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD066159.D
 Acq: 07 Aug 2020 15:52

Tgt Ion: 114 Resp: 438806
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 13.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 19.451 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Instrument :

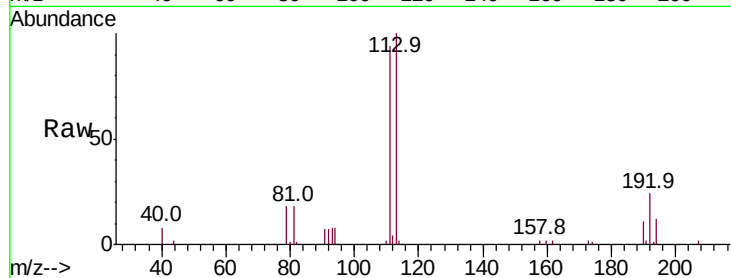
MSVOA_D

ClientSampleId :

FK-0D015-03-016RE

Tot Ion:113 Resp: 54069

Ion	Ratio	Lower	Upper
113	100		
111	105.5	80.7	121.1
192	24.3	18.4	27.6

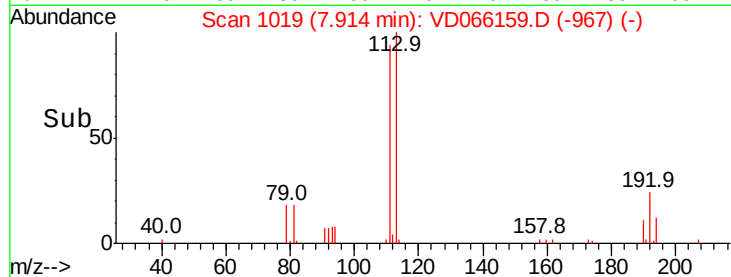
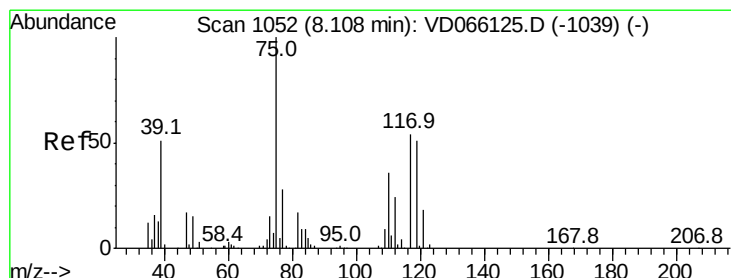


Abundance

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: 4.033 ug/l

RT: 7.98 min Scan# 1030

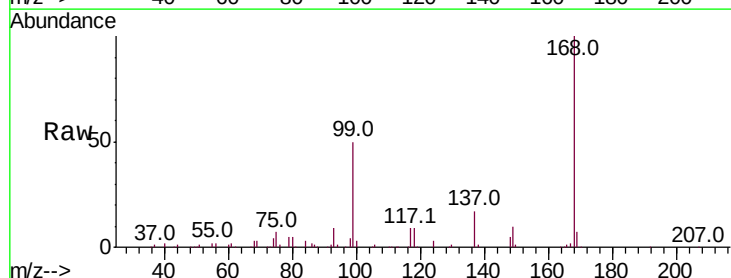
Delta R.T. -0.13 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Tgt Ion: 75 Resp: 16629

Ion	Ratio	Lower	Upper
75	100		
110	11.7	18.8	56.3#
77	0.0	24.2	36.2#

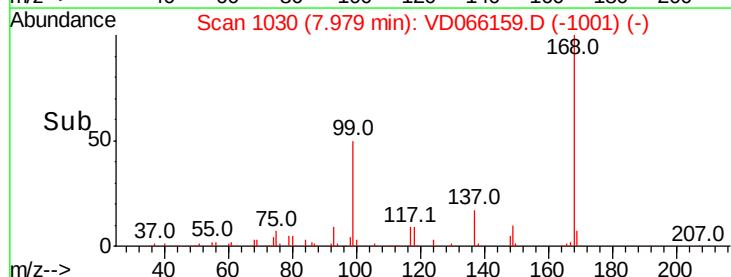


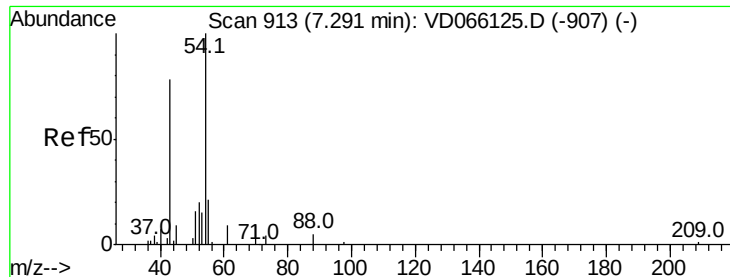
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 3.911 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.07 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-016RE

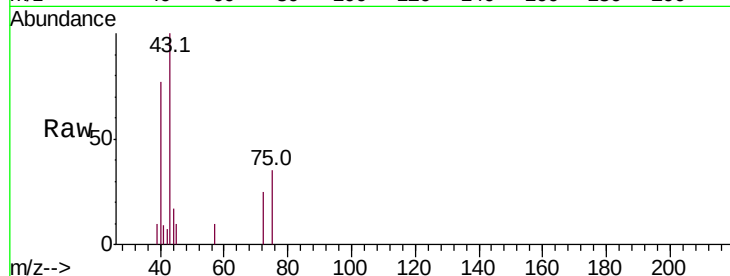
Tot Ion: 43 Resp: 6390

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

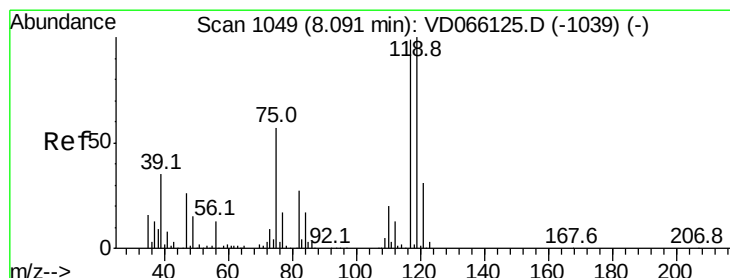
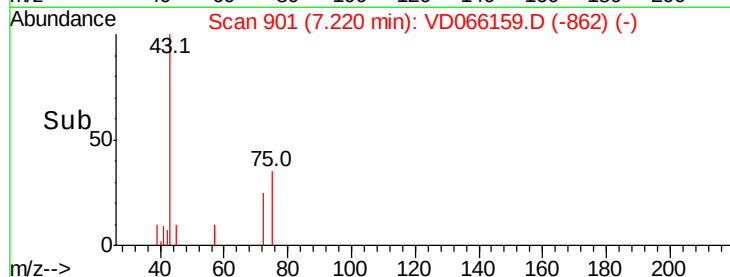
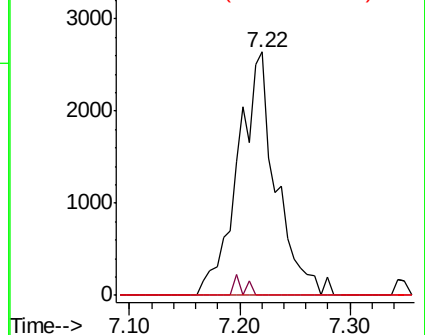
70 0.0 9.7 14.5#



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: 5.362 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

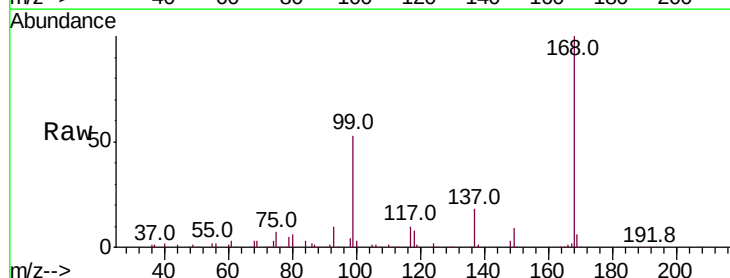
Tgt Ion: 117 Resp: 24657

Ion Ratio Lower Upper

117 100

119 7.0 81.0 121.4#

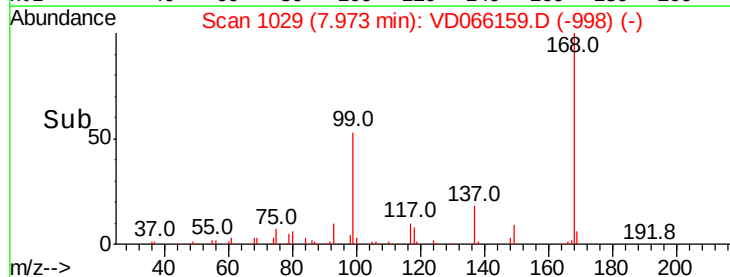
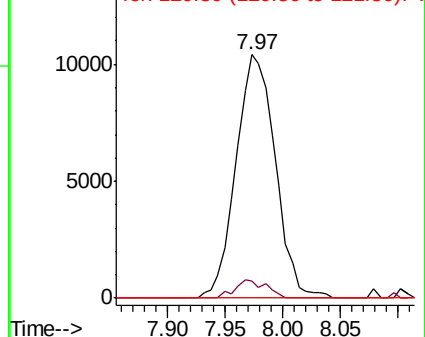
121 0.0 24.8 37.2#

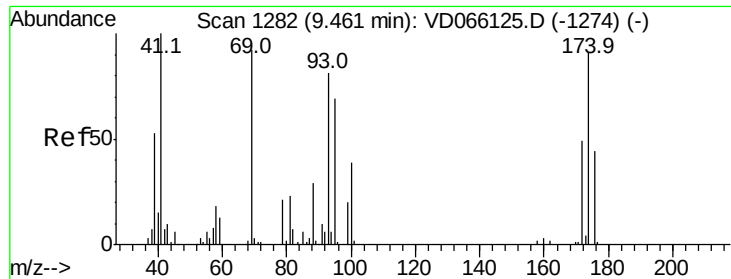


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 3.182 ug/l

RT: 9.31 min Scan# 1256

Delta R.T. -0.15 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-016RE

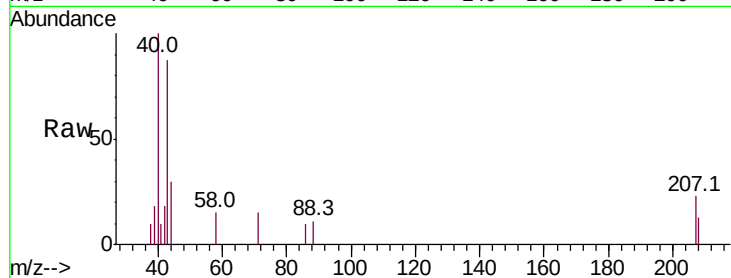
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 5276.2 27.5 41.3#

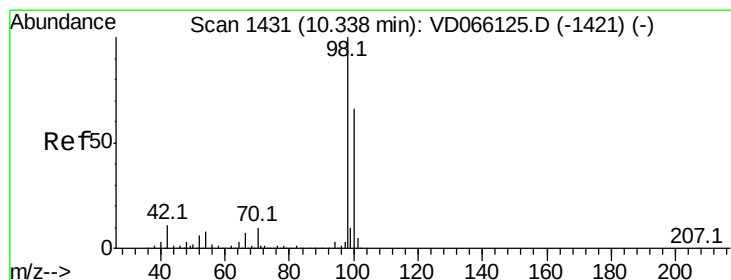
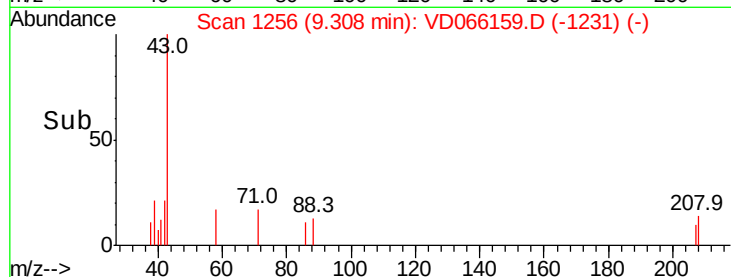
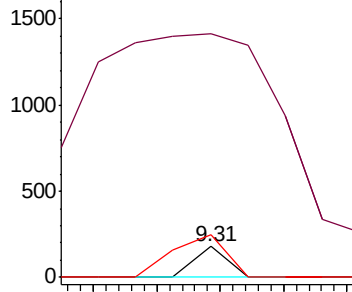
58 227.0 50.2 75.4#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 53.249 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066159.D

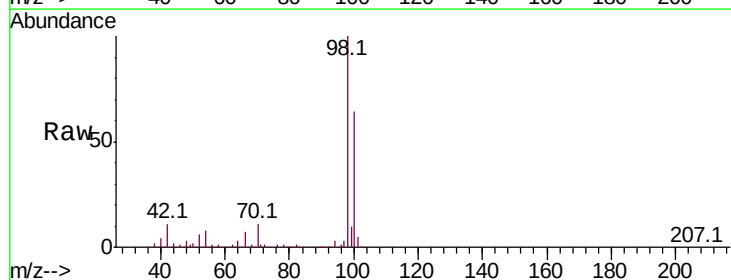
Acq: 07 Aug 2020 15:52

Tgt Ion: 98 Resp: 546237

Ion Ratio Lower Upper

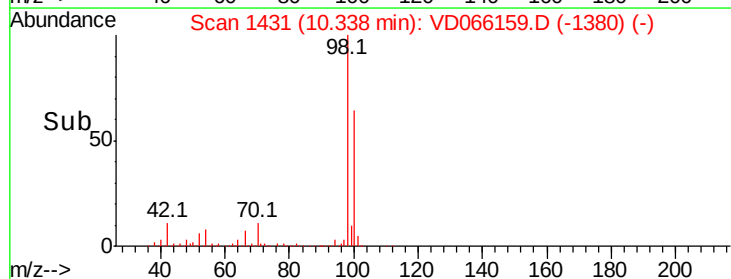
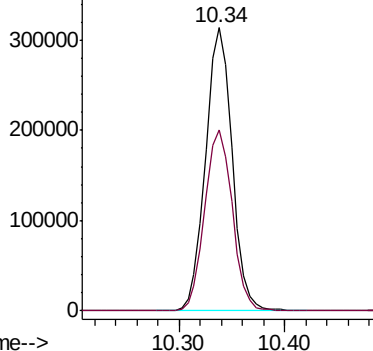
98 100

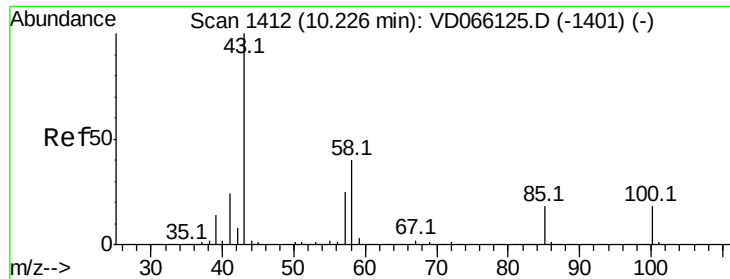
100 66.2 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

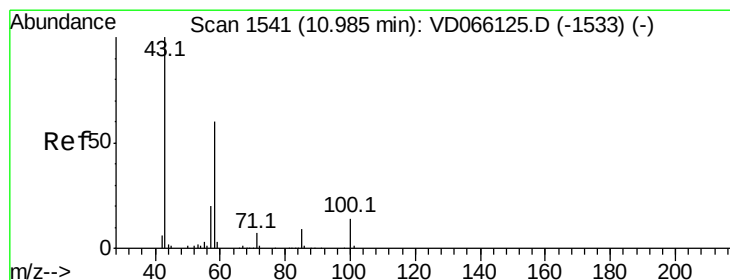
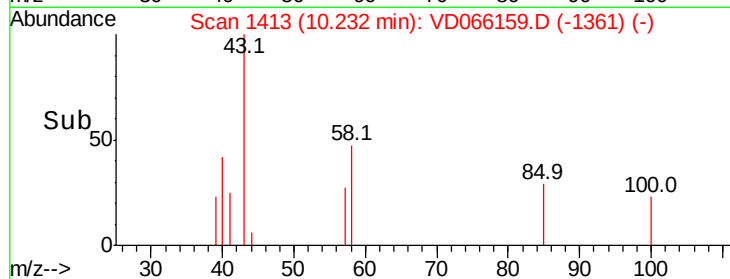
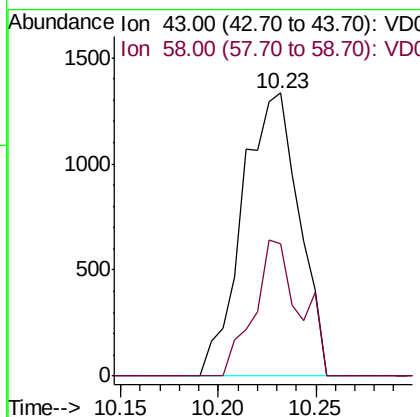
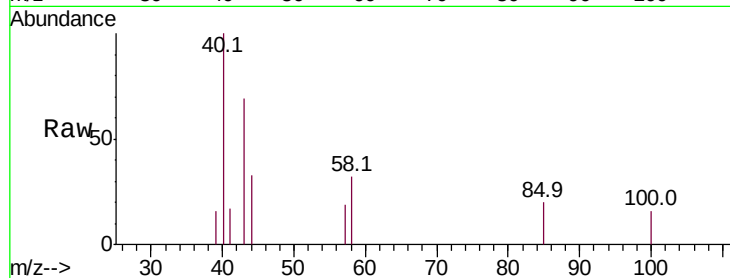




#51
4-Methyl-2-Pentanone
Concen: 1.623 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.01 min
Lab File: VD066159.D
Acq: 07 Aug 2020 15:52

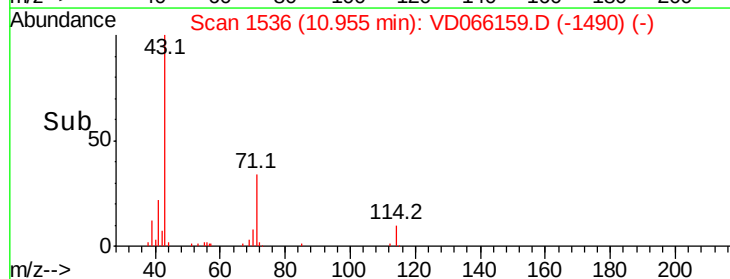
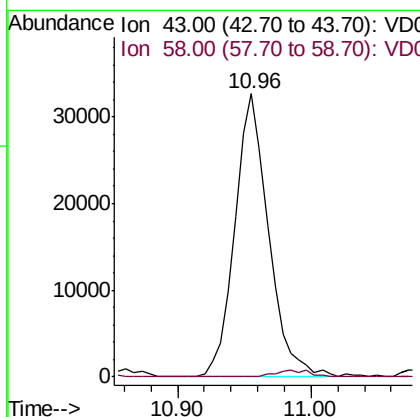
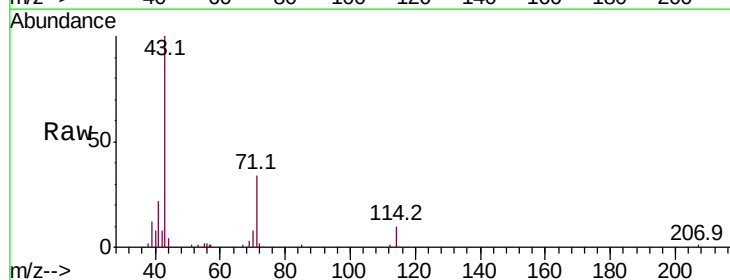
Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-016RE

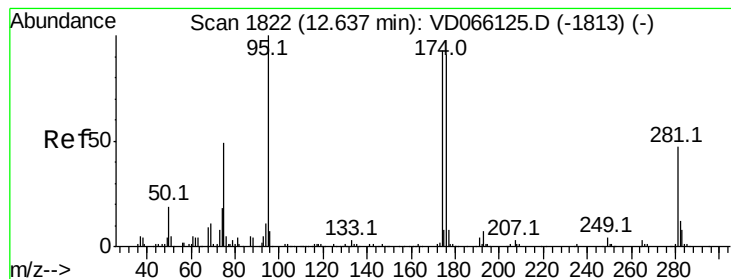
Tot Ion: 43 Resp: 2684
Ion Ratio Lower Upper
43 100
58 38.7 31.1 46.7



#59
2-Hexanone
Concen: 49.345 ug/l
RT: 10.96 min Scan# 1536
Delta R.T. -0.03 min
Lab File: VD066159.D
Acq: 07 Aug 2020 15:52

Tgt Ion: 43 Resp: 57261
Ion Ratio Lower Upper
43 100
58 0.0 27.8 83.4#





#62

4-Bromofluorobenzene

Concen: 65.107 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-016RE

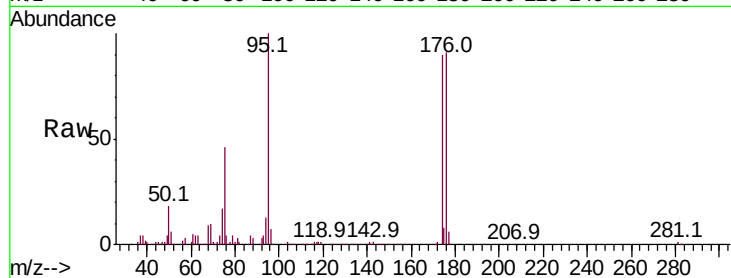
Tot Ion: 95 Resp: 240744

Ion Ratio Lower Upper

95 100

174 90.4 0.0 180.8

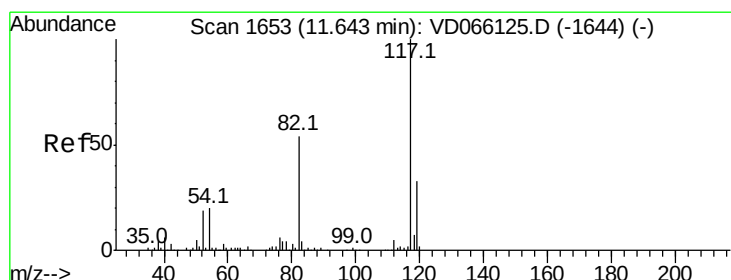
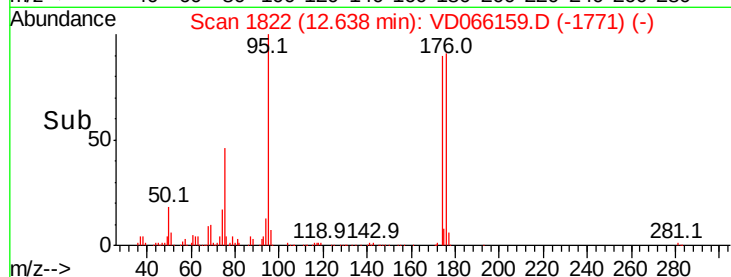
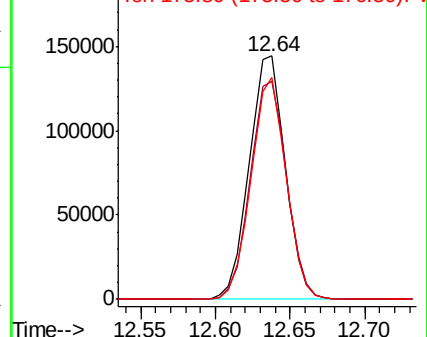
176 88.2 0.0 181.2



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: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

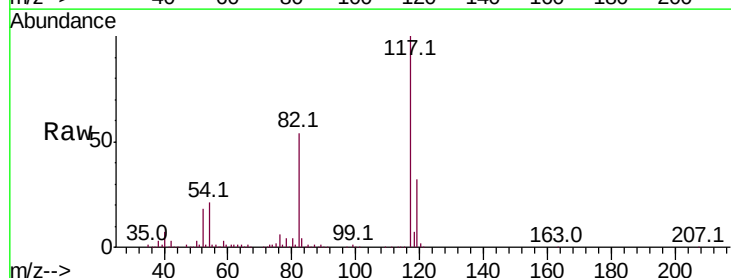
Tgt Ion: 117 Resp: 508572

Ion Ratio Lower Upper

117 100

82 53.8 43.0 64.4

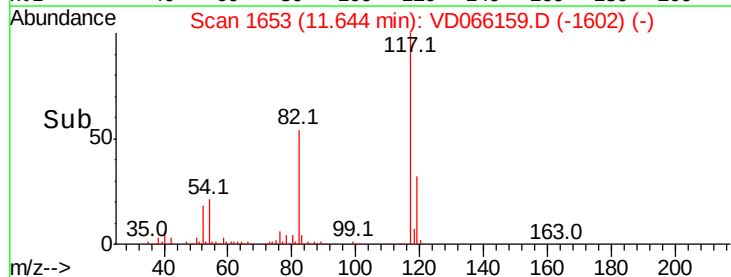
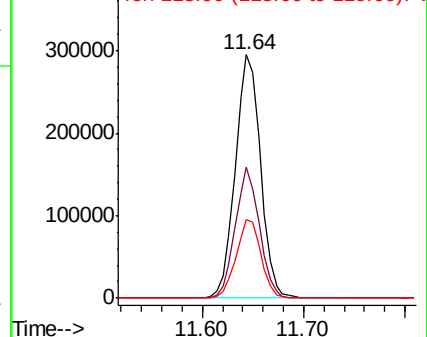
119 32.4 26.1 39.1

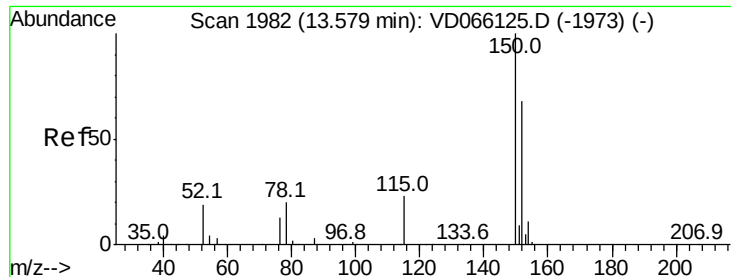


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1982

Delta R.T. 0.00 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-016RE

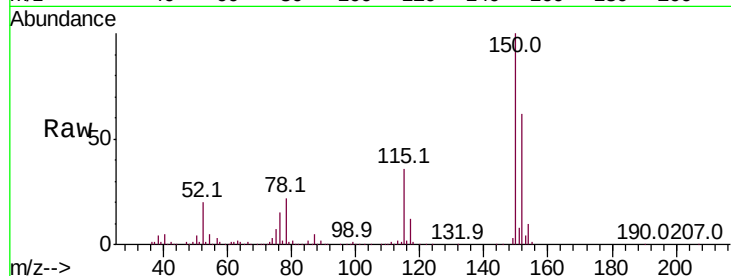
Tot Ion:152 Resp: 278002

Ion Ratio Lower Upper

152 100

115 56.3 28.0 83.9

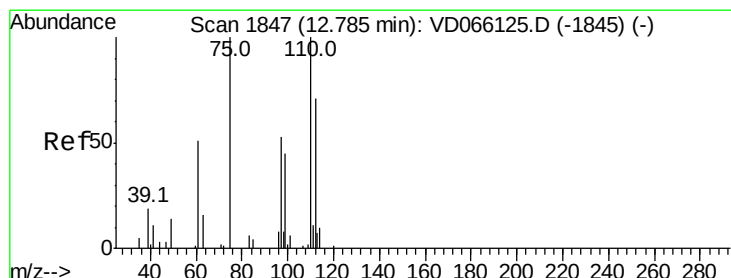
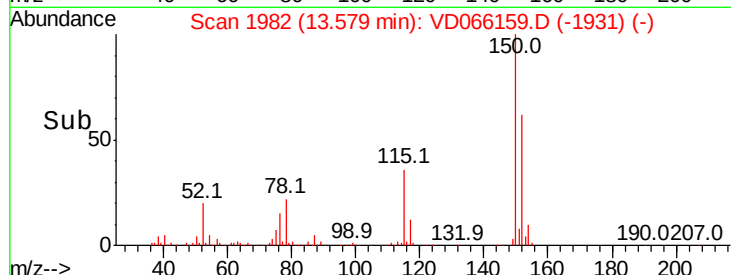
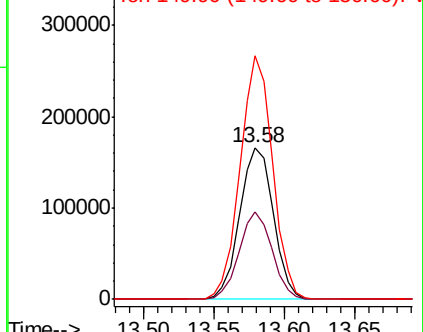
150 154.5 0.0 346.4



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: 51.045 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066159.D

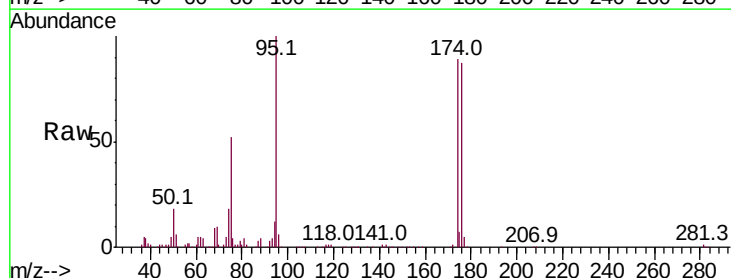
Acq: 07 Aug 2020 15:52

Tgt Ion: 75 Resp: 118339

Ion Ratio Lower Upper

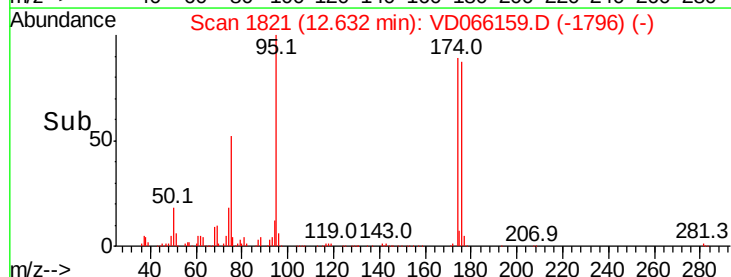
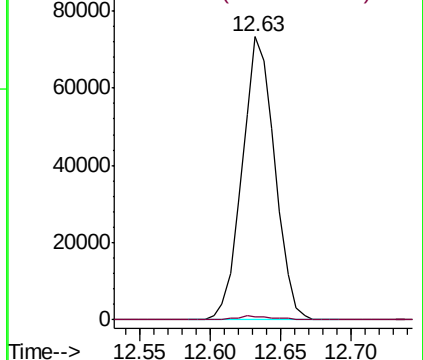
75 100

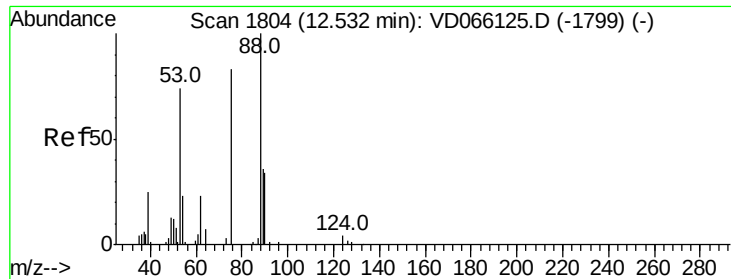
77 1.3 0.0 0.0#



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: 112.837 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066159.D

Acq: 07 Aug 2020 15:52

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-016RE

Tot Ion: 75 Resp: 118339

Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.2#

89 0.0 36.6 55.0#

