

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070319\
 Data File : VD063023.D
 Acq On : 3 Jul 2019 14:13
 Operator : VA/AP
 Sample : K3645-02RE
 Misc : 4.31g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-010RE

Quant Time: Jul 04 00:46:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	996552	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	1330398	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1124681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	574871	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	441012	40.71	ug/l	0.00
Spiked Amount			Recovery	=	81.42%	
35) Dibromofluoromethane	6.93	113	185687	16.55	ug/l	0.00
Spiked Amount			Recovery	=	33.10%	
50) Toluene-d8	10.41	98	1076344	44.08	ug/l	0.00
Spiked Amount			Recovery	=	88.16%	
62) 4-Bromofluorobenzene	13.55	95	442781	39.88	ug/l	0.00
Spiked Amount			Recovery	=	79.76%	

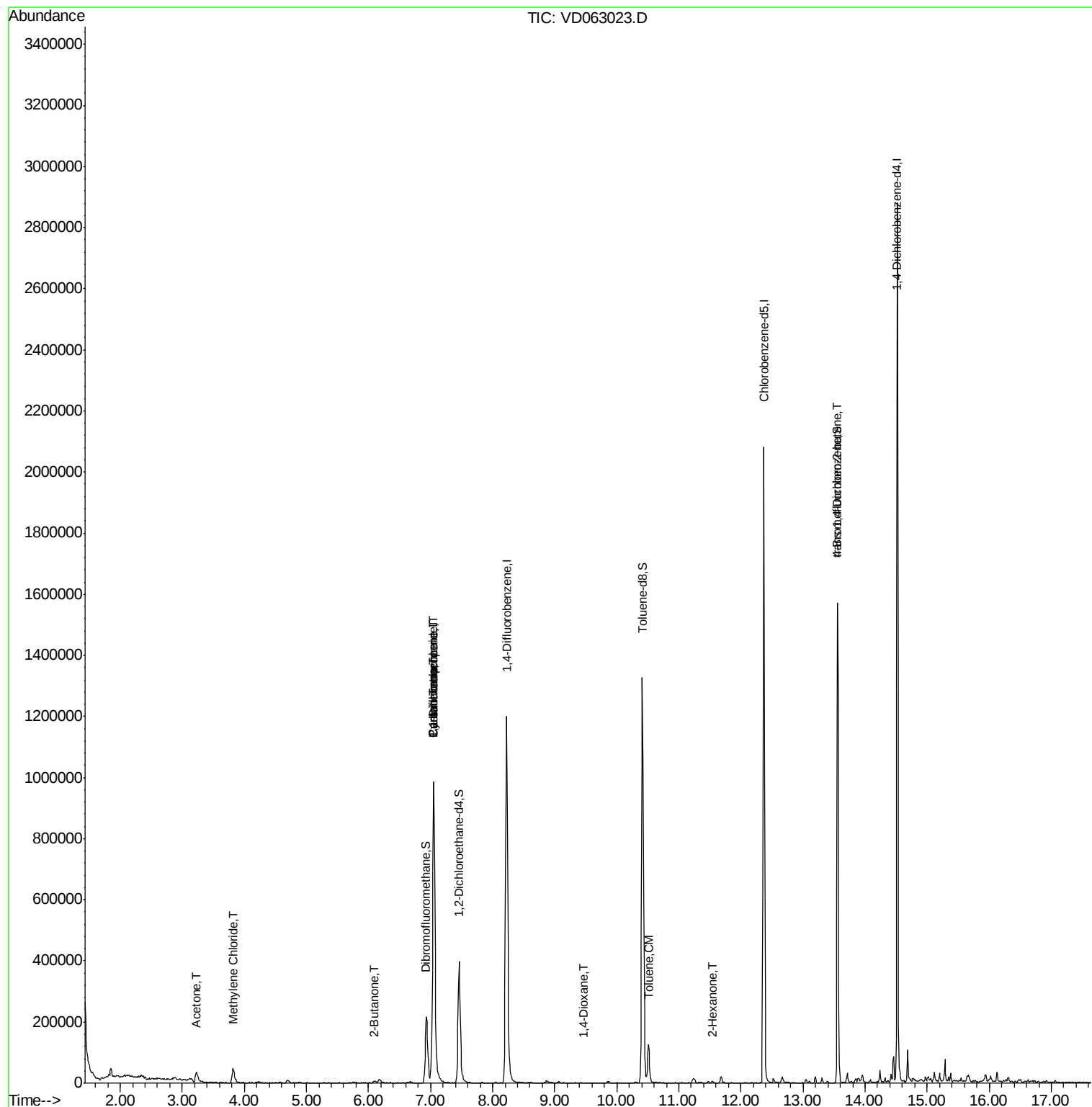
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.23	43	70739	25.932	ug/l	96
20) Methylene Chloride	3.82	84	29848	3.613	ug/l #	77
25) 2-Butanone	6.08	43	8863	4.375	ug/l #	84
31) Cyclohexane	7.06	56	22705	2.232	ug/l #	6
36) 1,1-Dichloropropene	7.05	75	79497	6.312	ug/l #	54
37) Ethyl Acetate	6.20	43	271	Below Cal	#	69
38) Carbon Tetrachloride	7.05	117	100750	5.319	ug/l #	16
49) 1,4-Dioxane	9.47	88	291	7.455	ug/l #	29
52) Toluene	10.51	92	59363	3.493	ug/l	91
59) 2-Hexanone	11.54	43	5062	1.518	ug/l	78
81) trans-1,4-Dichloro-2-buten	13.55	75	209354	120.366	ug/l #	2

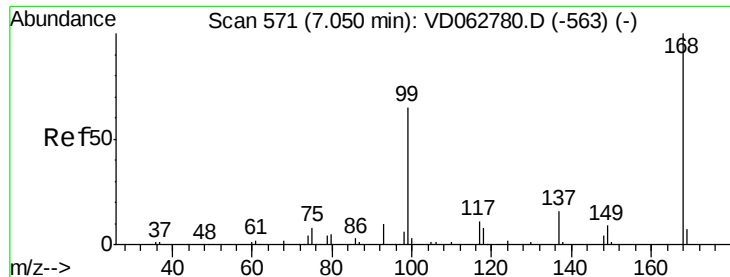
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

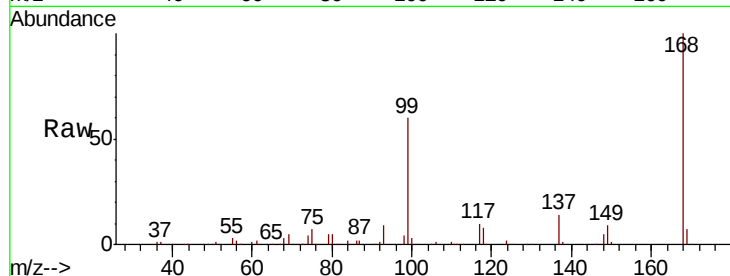
FK-0D015-03-010RE

Tot Ion:168 Resp: 996552

Ion Ratio Lower Upper

168 100

99 59.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

400000

300000

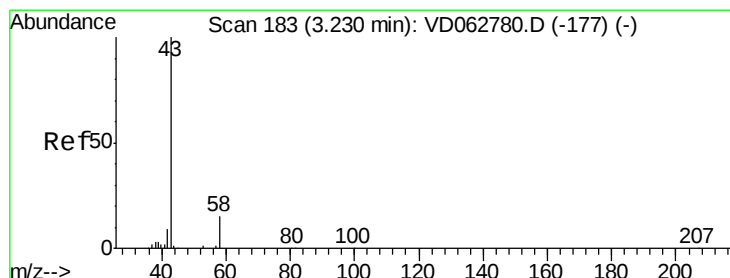
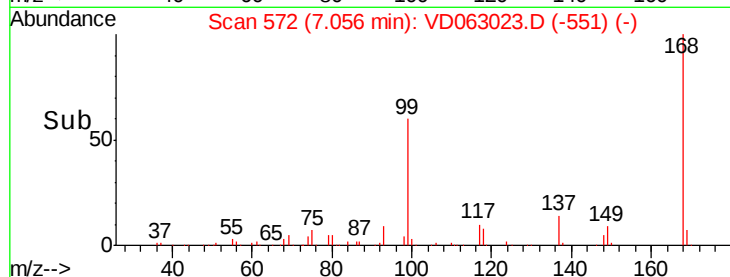
200000

100000

0

6.90 7.00 7.10 7.20

Time-->



#16

Acetone

Concen: 25.932 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD063023.D

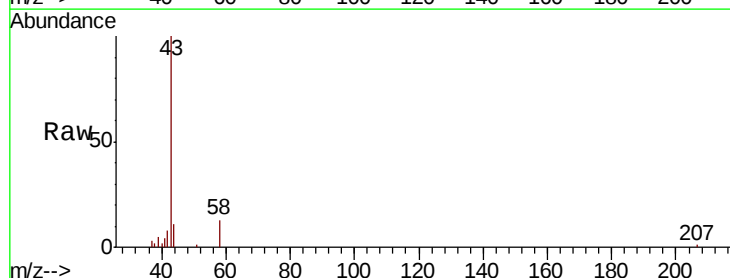
Acq: 3 Jul 2019 14:13

Tgt Ion: 43 Resp: 70739

Ion Ratio Lower Upper

43 100

58 13.2 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

25000

20000

15000

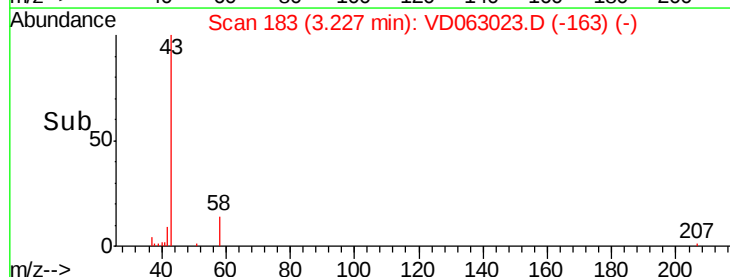
10000

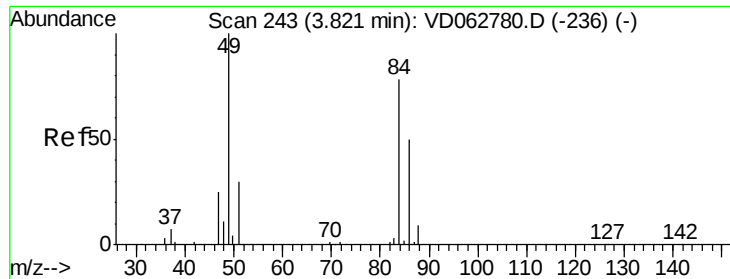
5000

0

3.10 3.20 3.30 3.40

Time-->

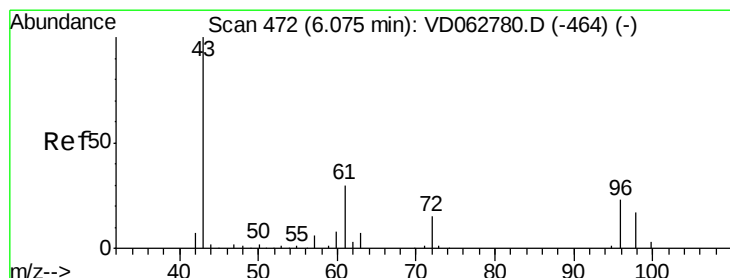
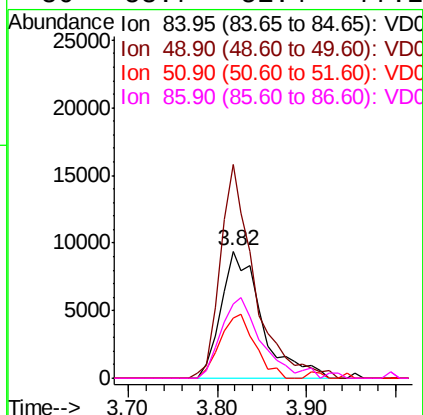
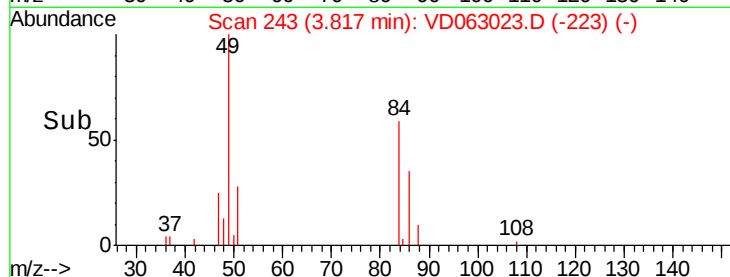
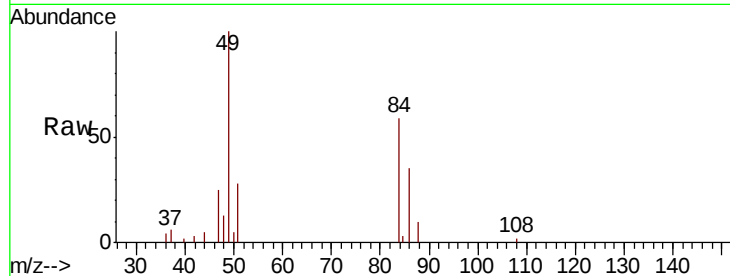




#20
Methvlene Chloride
Concen: 3.613 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD063023.D
Acq: 3 Jul 2019 14:13

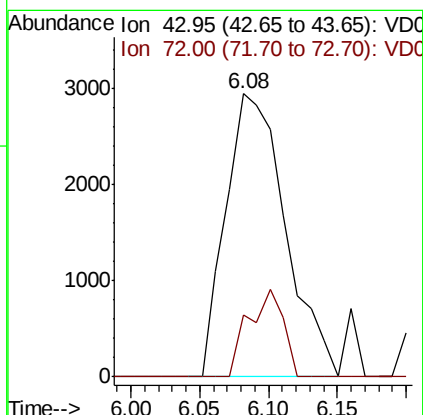
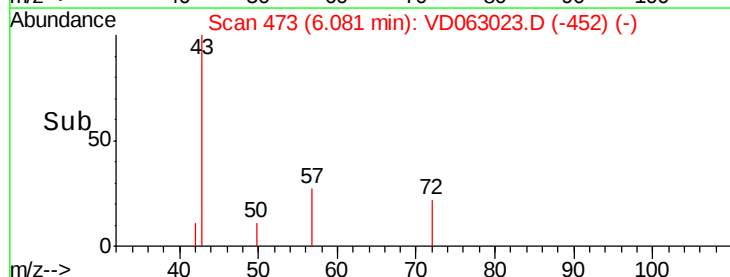
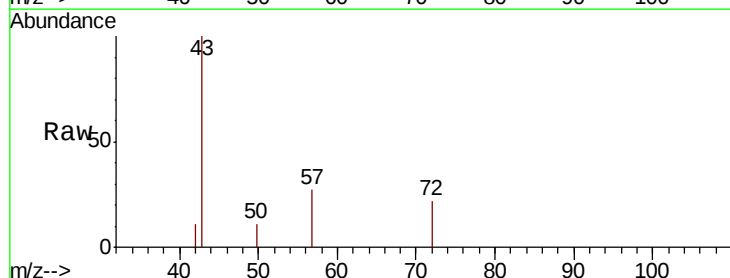
Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-010RE

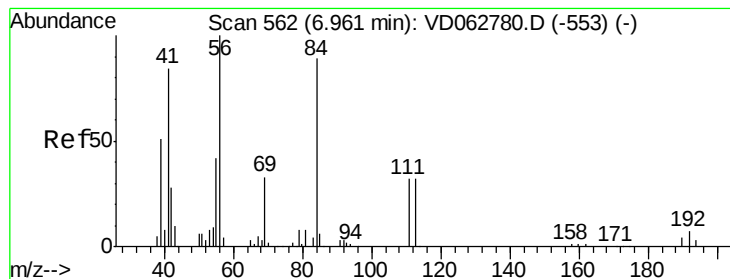
Tot Ion: 84 Resp: 29848
Ion Ratio Lower Upper
84 100
49 168.1 102.9 154.3#
51 47.7 31.2 46.8#
86 58.7 51.4 77.2



#25
2-Butanone
Concen: 4.375 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.01 min
Lab File: VD063023.D
Acq: 3 Jul 2019 14:13

Tgt Ion: 43 Resp: 8863
Ion Ratio Lower Upper
43 100
72 21.7 11.9 17.9#





#31

Cyclohexane

Concen: 2.232 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.10 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-010RE

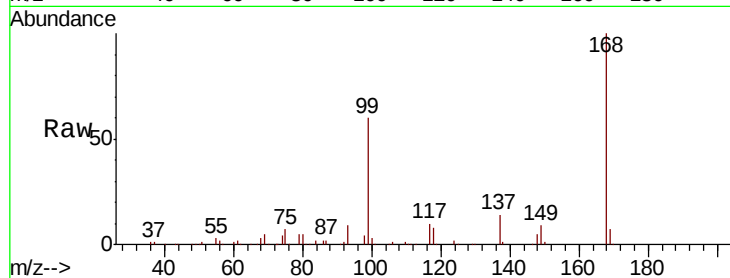
Tot Ion: 56 Resp: 22705

Ion Ratio Lower Upper

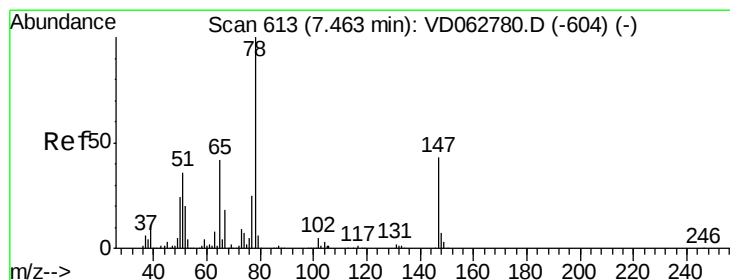
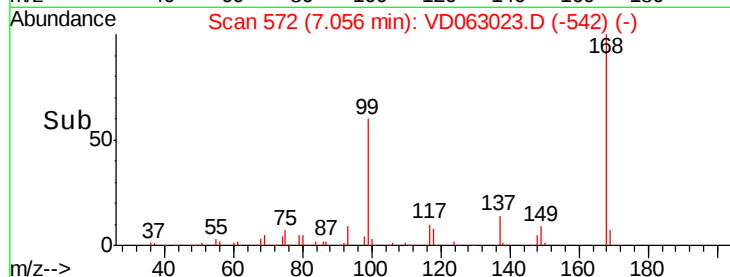
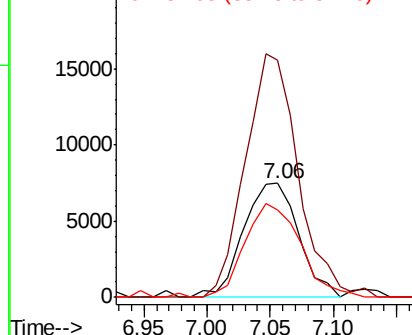
56 100

69 208.8 26.6 39.8#

84 76.5 75.5 113.3



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 40.712 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD063023.D

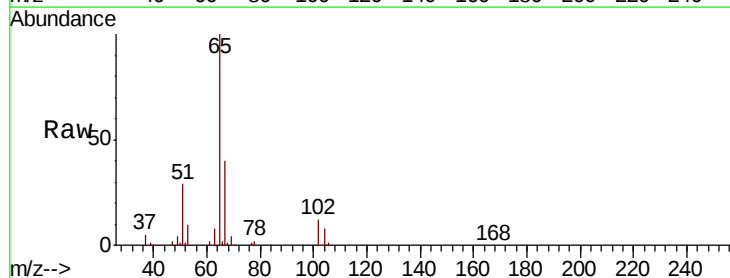
Acq: 3 Jul 2019 14:13

Tgt Ion: 65 Resp: 441012

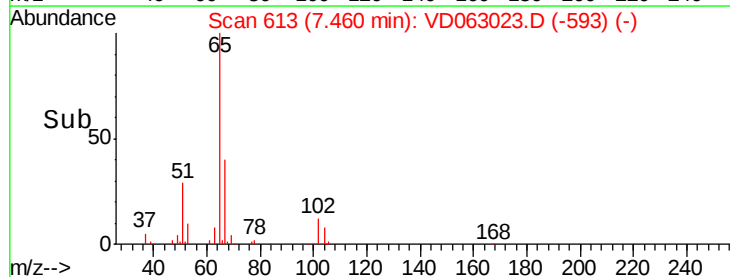
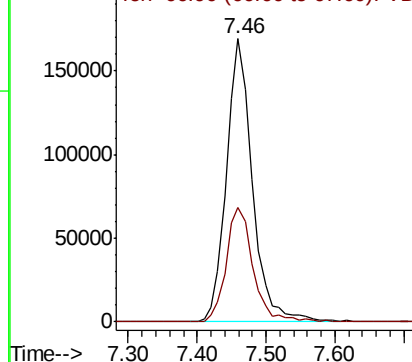
Ion Ratio Lower Upper

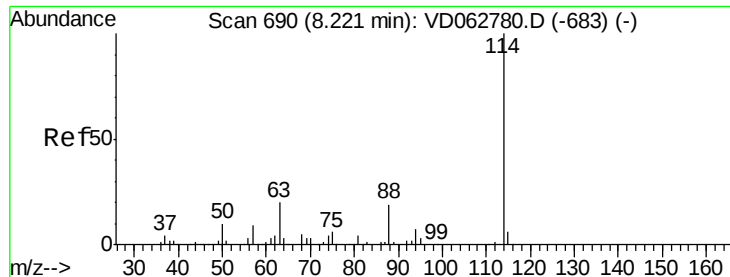
65 100

67 40.5 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-010RE

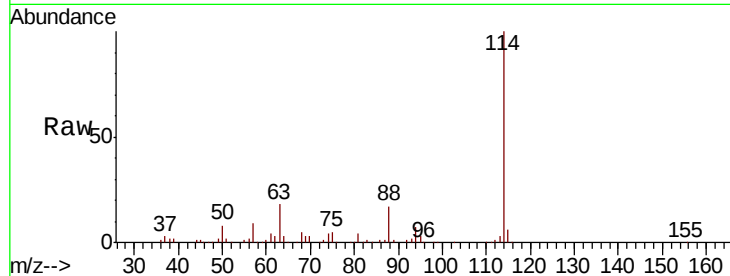
Tot Ion:114 Resp: 1330398

Ion Ratio Lower Upper

114 100

63 17.8 0.0 40.0

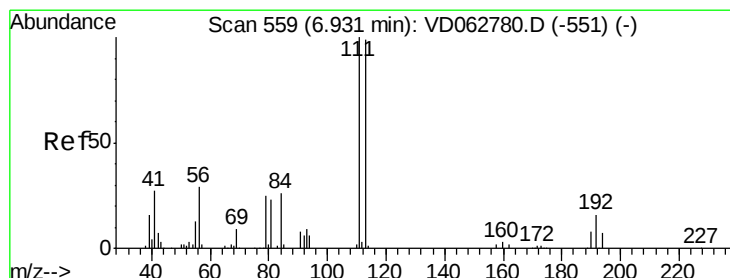
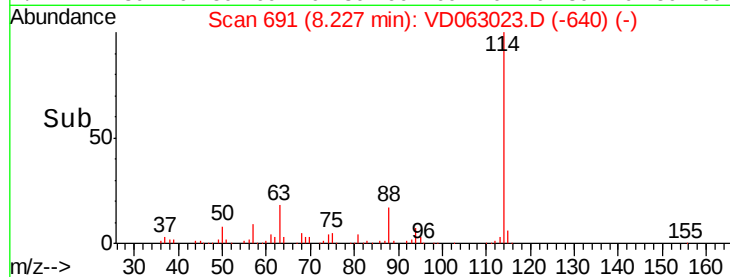
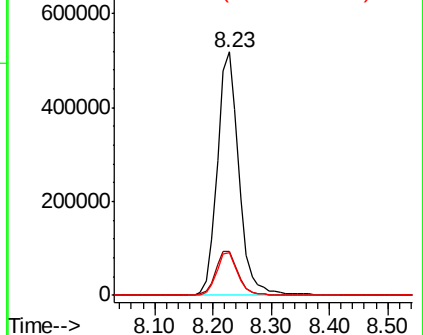
88 17.4 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 16.553 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

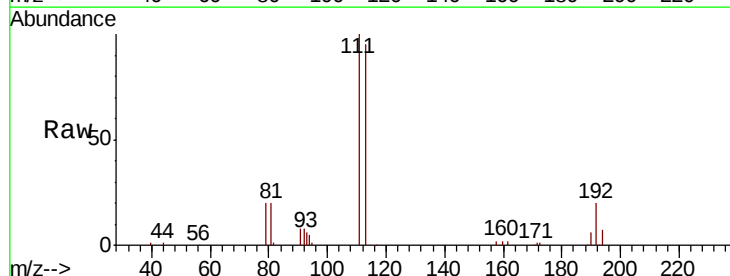
Tgt Ion:113 Resp: 185687

Ion Ratio Lower Upper

113 100

111 105.0 81.2 121.8

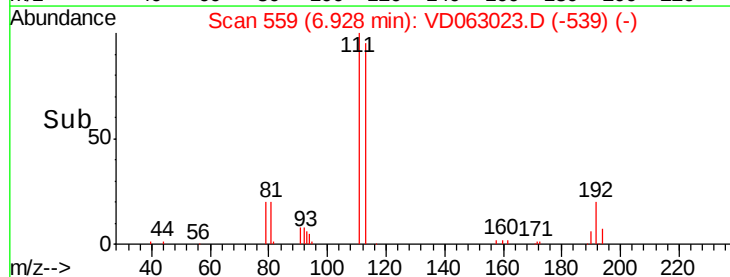
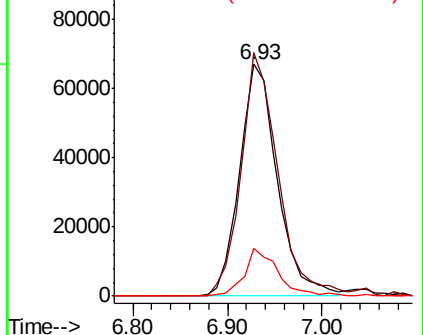
192 20.5 12.9 19.3#

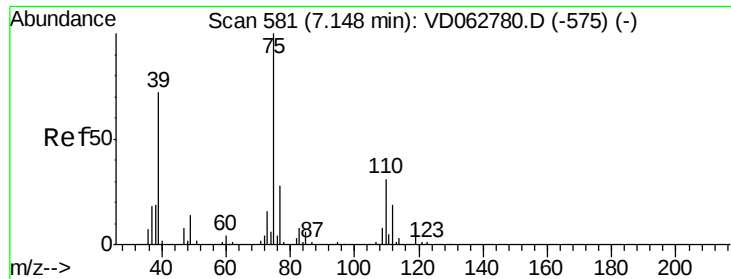


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

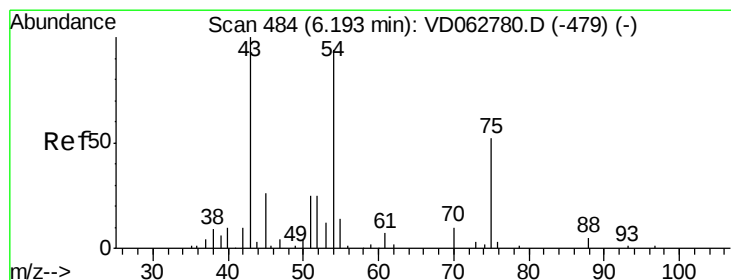
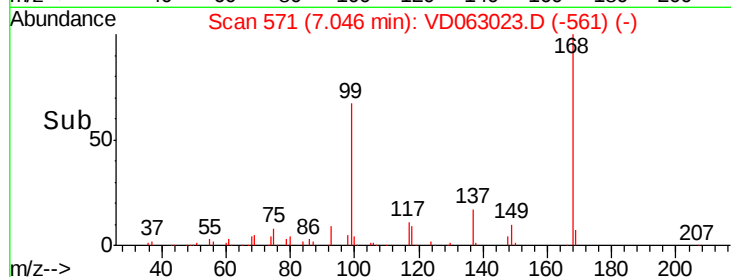
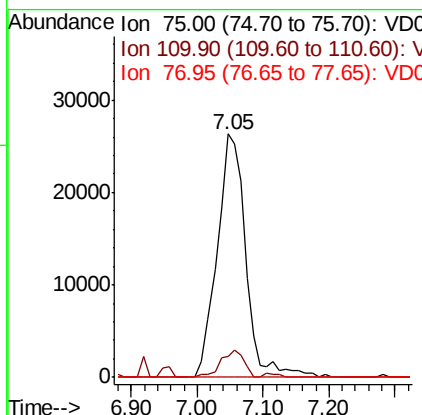
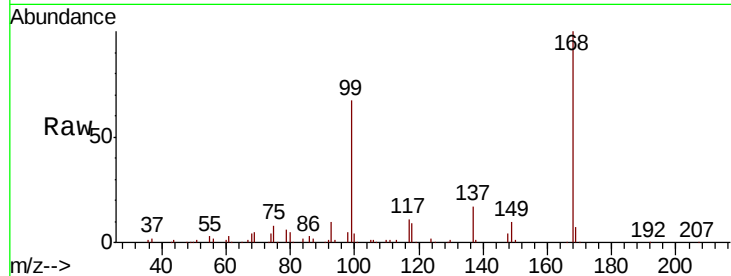




#36
 1,1-Dichloropropene
 Concen: 6.312 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD063023.D
 Acq: 3 Jul 2019 14:13

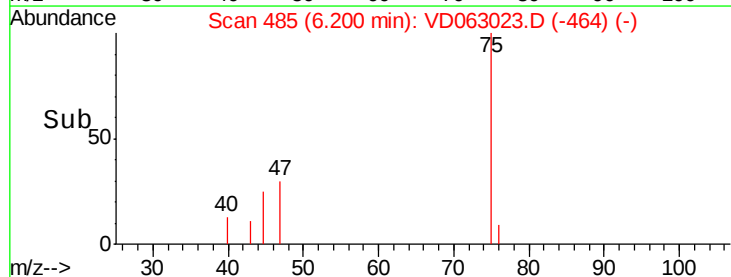
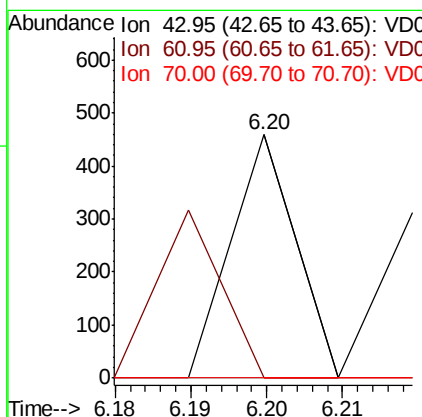
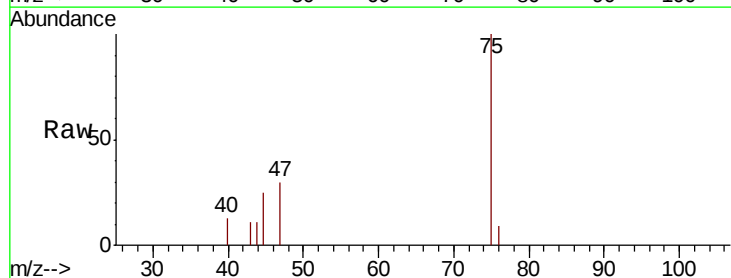
Instrument :
 MSVOA_D
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 FK-0D015-03-010RE

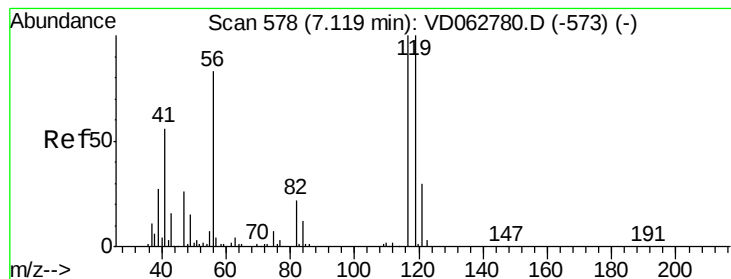
Tot Ion	75	Resp	79497
Ion Ratio	Lower	Upper	
75	100		
110	8.8	15.0	45.1#
77	0.0	22.2	33.2#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 6.20 min Scan# 485
 Delta R.T. 0.01 min
 Lab File: VD063023.D
 Acq: 3 Jul 2019 14:13

Tgt Ion	43	Resp	271
Ion Ratio	Lower	Upper	
43	100		
61	0.0	11.6	17.4#
70	0.0	6.4	9.6#





#38

Carbon Tetrachloride

Concen: 5.319 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-010RE

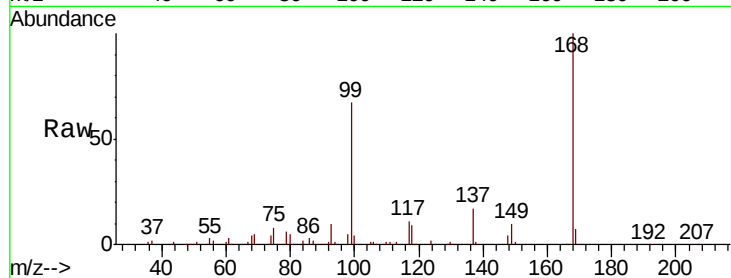
Tot Ion:117 Resp: 100750

Ion Ratio Lower Upper

117 100

119 4.1 75.4 113.2#

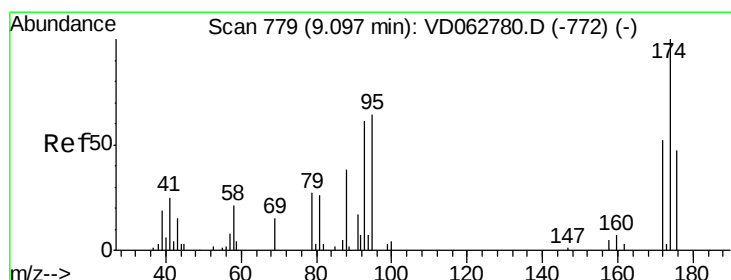
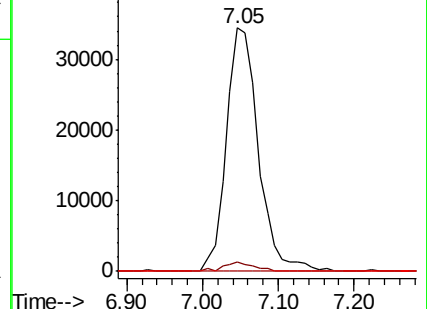
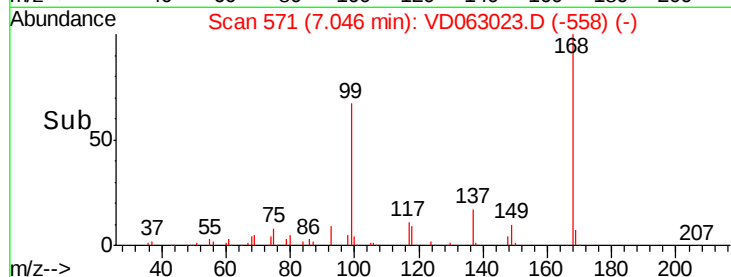
121 0.0 22.3 33.5#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#49

1,4-Dioxane

Concen: 7.455 ug/l

RT: 9.47 min Scan# 817

Delta R.T. 0.37 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

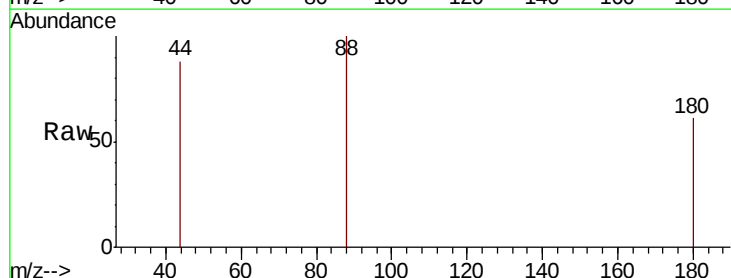
Tgt Ion: 88 Resp: 291

Ion Ratio Lower Upper

88 100

43 0.0 32.1 48.1#

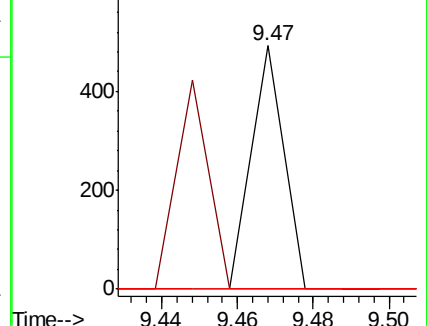
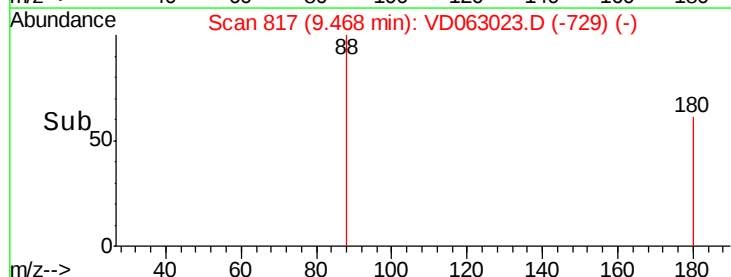
58 0.0 44.1 66.1#

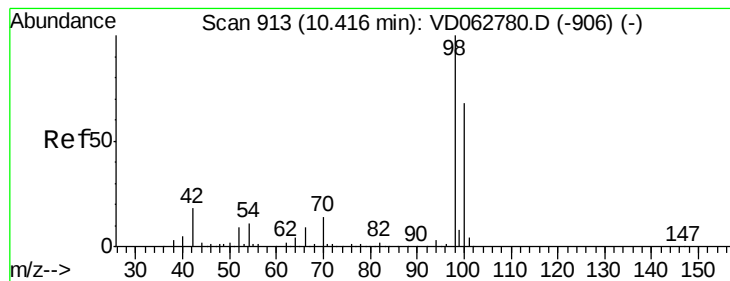


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 44.085 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

Instrument :

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ClientSampleId :

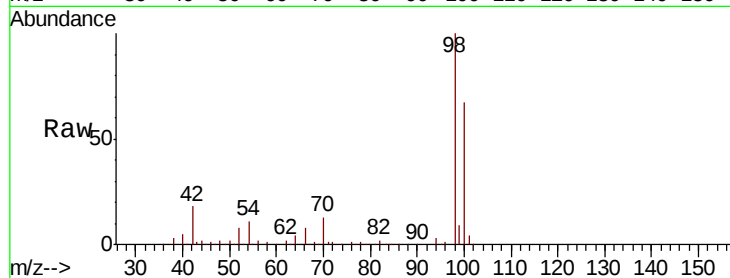
FK-0D015-03-010RE

Tot Ion: 98 Resp: 1076344

Ion Ratio Lower Upper

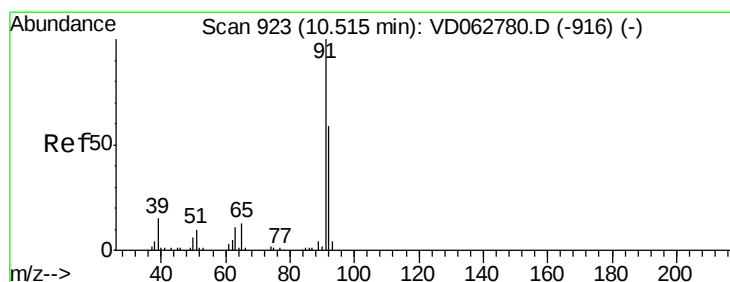
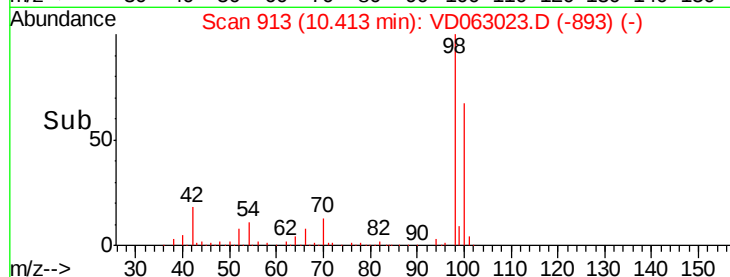
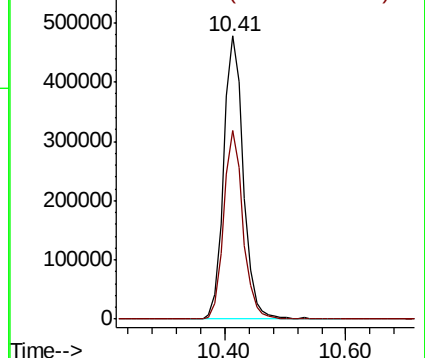
98 100

100 66.5 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 3.493 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD063023.D

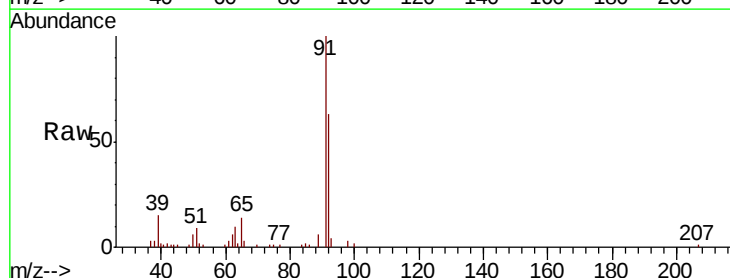
Acq: 3 Jul 2019 14:13

Tgt Ion: 92 Resp: 59363

Ion Ratio Lower Upper

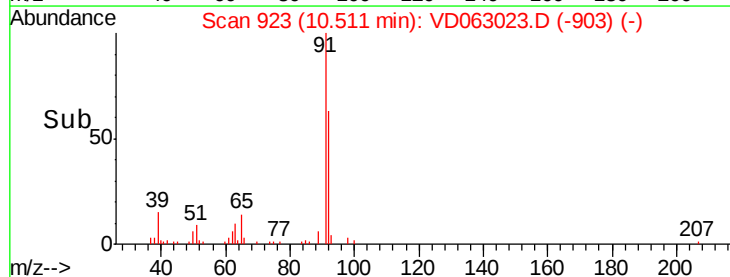
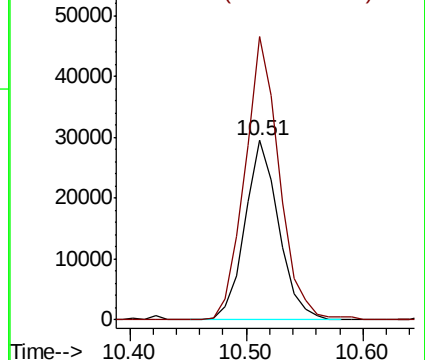
92 100

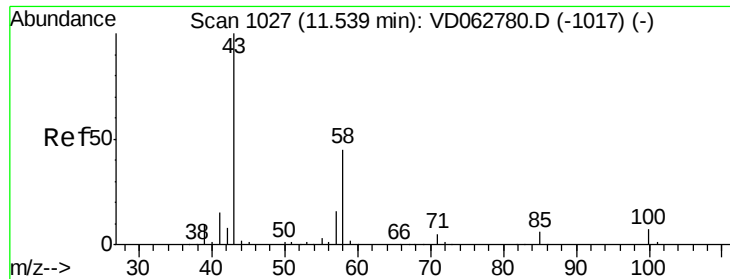
91 158.0 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#59

2-Hexanone

Concen: 1.518 ug/l

RT: 11.54 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

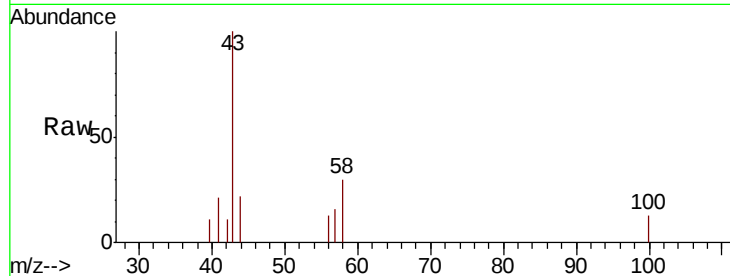
FK-0D015-03-010RE

Tot Ion: 43 Resp: 5062

Ion Ratio Lower Upper

43 100

58 30.4 22.4 67.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

11.54

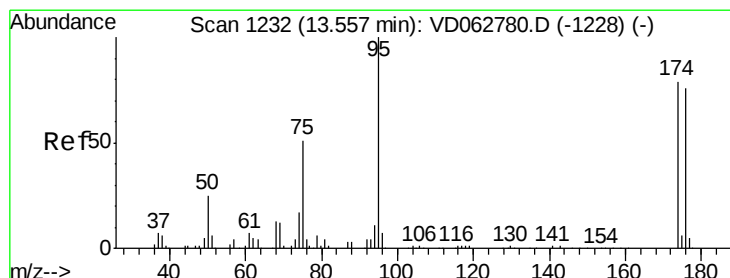
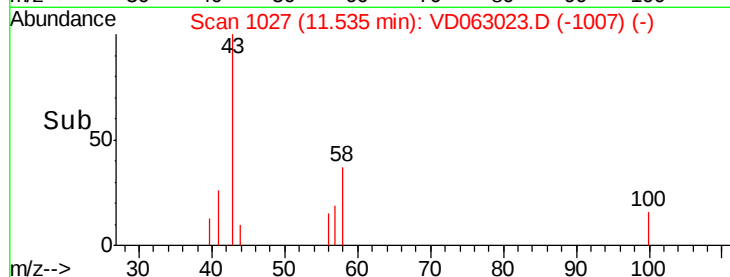
3000

2000

1000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 39.884 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

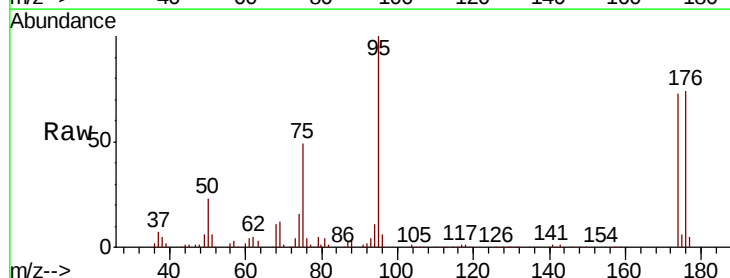
Tgt Ion: 95 Resp: 442781

Ion Ratio Lower Upper

95 100

174 72.8 0.0 158.0

176 73.5 0.0 151.6



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

13.55

400000

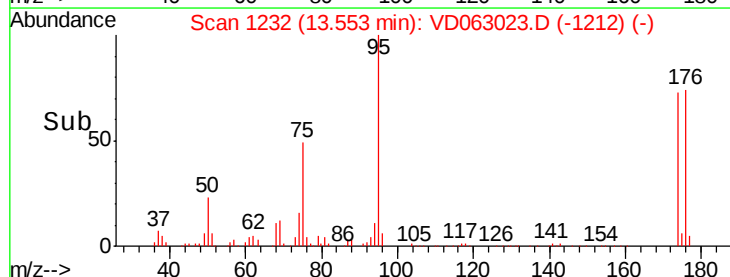
300000

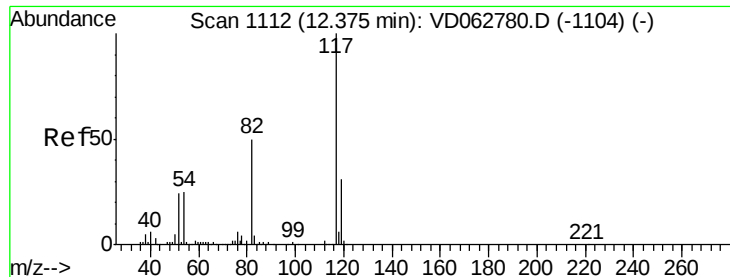
200000

100000

0

Time-->

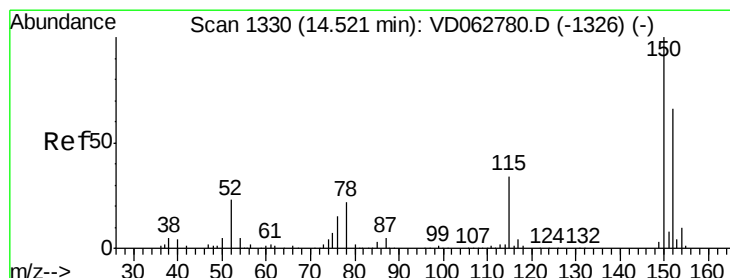
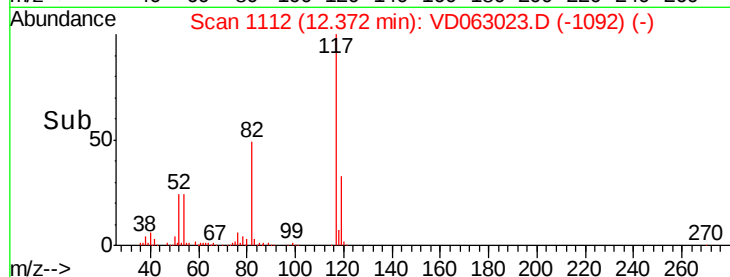
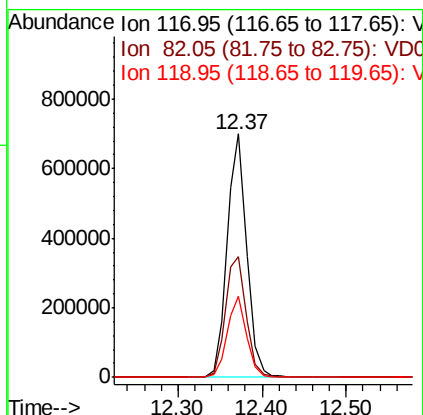
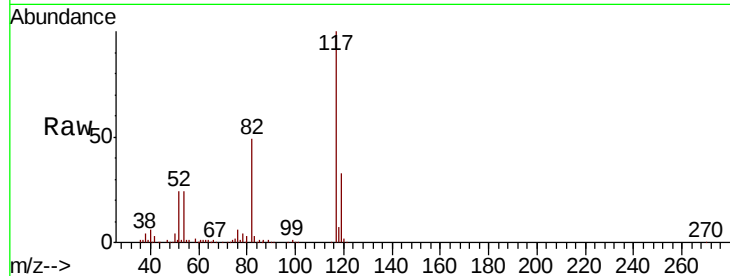




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD063023.D
Acq: 3 Jul 2019 14:13

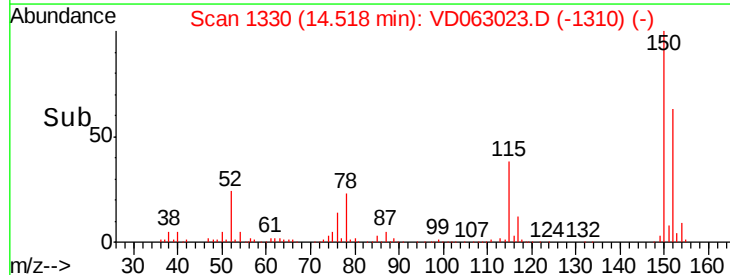
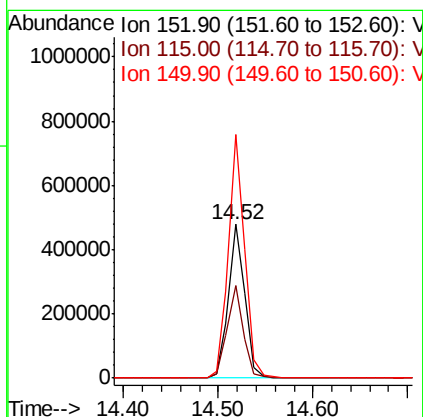
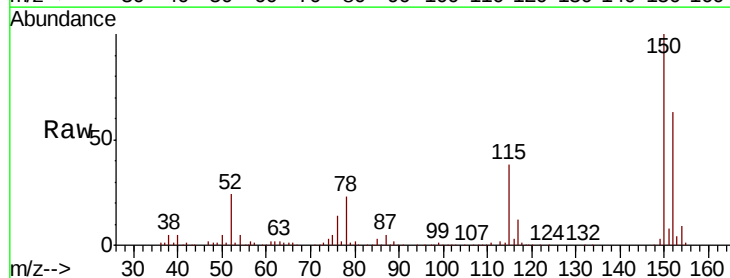
Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-010RE

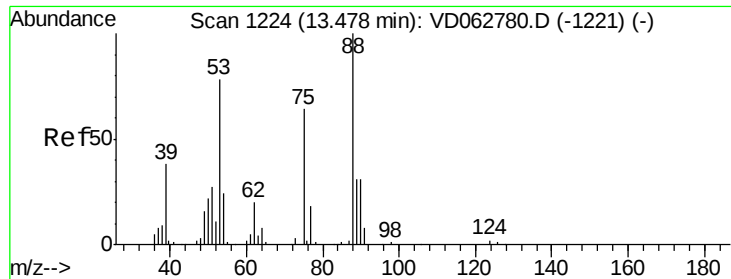
Tot Ion:117 Resp: 1124681
Ion Ratio Lower Upper
117 100
82 49.4 40.4 60.6
119 33.4 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD063023.D
Acq: 3 Jul 2019 14:13

Tgt Ion:152 Resp: 574871
Ion Ratio Lower Upper
152 100
115 60.6 29.2 87.6
150 158.2 0.0 305.8





#81

trans-1,4-Dichloro-2-butene

Concen: 120.366 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063023.D

Acq: 3 Jul 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-010RE

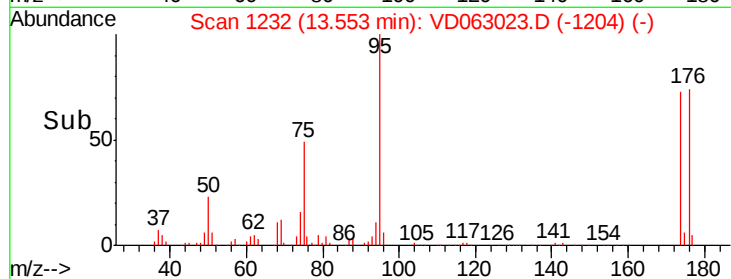
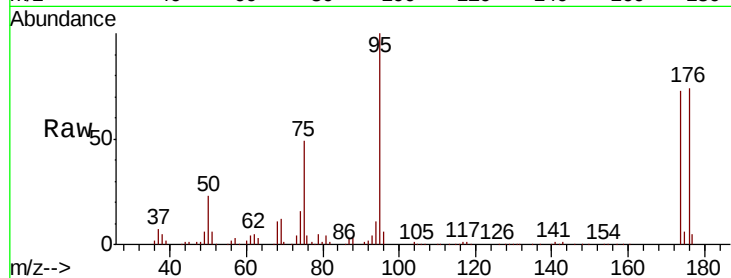
Tot Ion: 75 Resp: 209354

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

89 0.0 39.4 59.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

