

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122418\
 Data File : VX006794.D
 Acq On : 24 Dec 2018 14:51
 Operator : JC/MD
 Sample : J6192-03ME
 Misc : 6.86g/5mL/100uL/5.0mL/MSVOA_X/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HD-01-122018

Quant Time: Dec 25 01:21:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	563264	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	858422	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	788601	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	413479	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	284542	46.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.74%	
35) Dibromofluoromethane	5.51	113	238446	43.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.84%	
50) Toluene-d8	8.71	98	998724	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.14	95	368860	49.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.42%	

Target Compounds

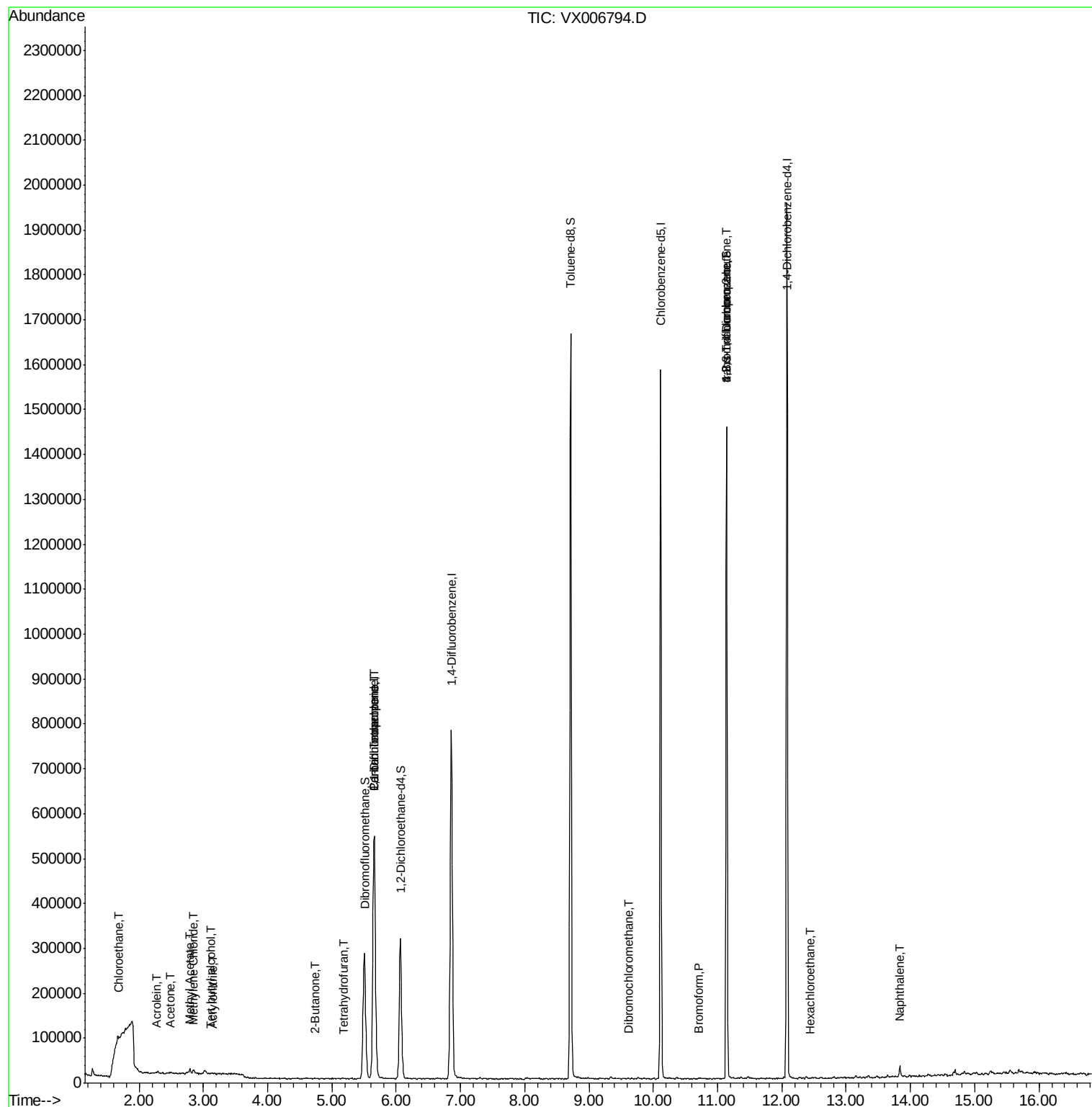
				Qvalue
5) Bromomethane	1.64	94	2815	Below Cal # 76
6) Chloroethane	1.68	64	1276	0.318 ug/l 98
11) Tert butyl alcohol	3.11	59	279	0.206 ug/l # 1
13) Acrolein	2.28	56	621	0.679 ug/l # 62
15) Acrylonitrile	3.15	53	741	0.246 ug/l # 29
16) Acetone	2.48	43	1984	0.711 ug/l # 58
18) Methyl Acetate	2.79	43	9053	1.104 ug/l 96
20) Methylene Chloride	2.85	84	5253	0.911 ug/l 90
25) 2-Butanone	4.74	43	1991	0.508 ug/l 93
28) Bromochloromethane	5.04	49	94	Below Cal # 1
29) Tetrahydrofuran	5.18	42	534	0.207 ug/l # 77
36) 1,1-Dichloropropene	5.66	75	35831	5.040 ug/l # 50
38) Carbon Tetrachloride	5.65	117	50706	7.339 ug/l # 15
49) 1,4-Dioxane	7.74	88	106	Below Cal # 1
60) Dibromochloromethane	9.62	129	69	2.335 ug/l 80
71) Bromoform	10.71	173	116	4.482 ug/l # 28
76) 1,2,3-Trichloropropane	11.14	75	174992	22.773 ug/l # 40
81) trans-1,4-Dichloro-2-buten	11.14	75	174992	67.671 ug/l # 10
90) Hexachloroethane	12.45	117	26	3.299 ug/l 82
95) Naphthalene	13.83	128	15787	0.520 ug/l 96

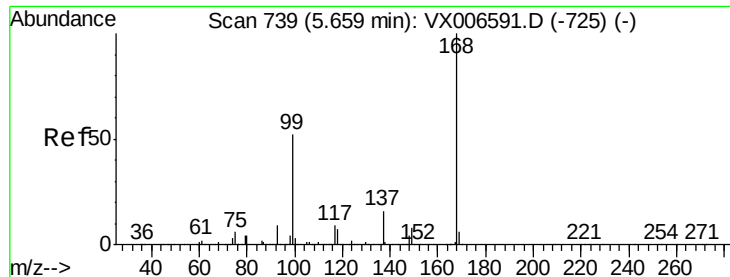
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 25 01:21:28 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

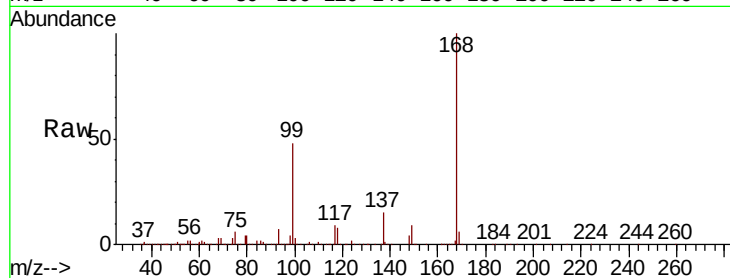
HD-01-122018

Tot Ion:168 Resp: 563264

Ion Ratio Lower Upper

168 100

99 48.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

200000

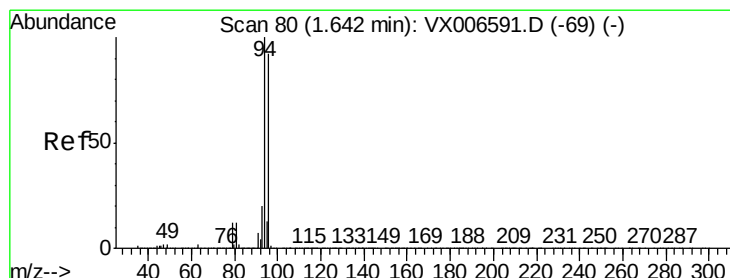
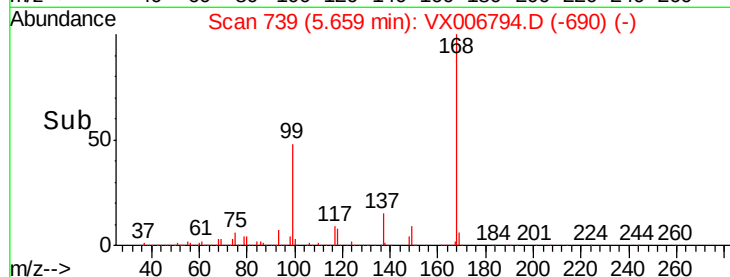
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006794.D

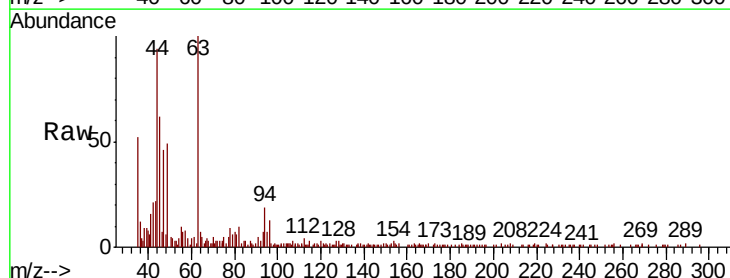
Acq: 24 Dec 2018 14:51

Tgt Ion: 94 Resp: 2815

Ion Ratio Lower Upper

94 100

96 69.0 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

2000

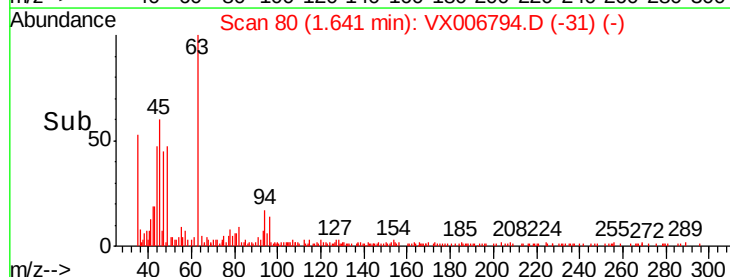
1500

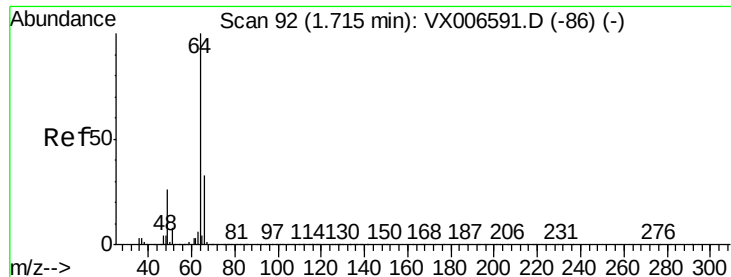
1000

500

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.318 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

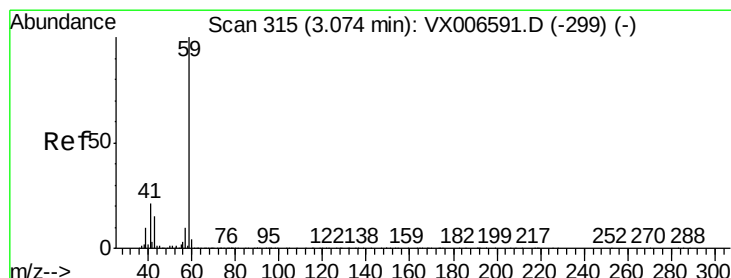
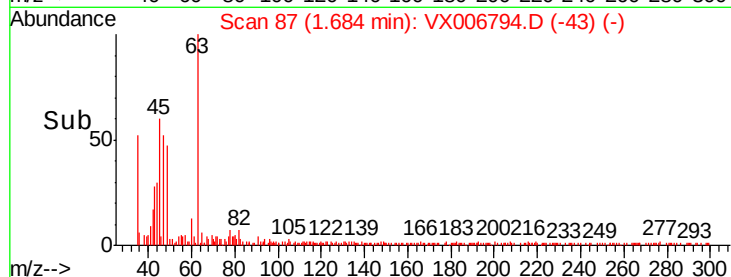
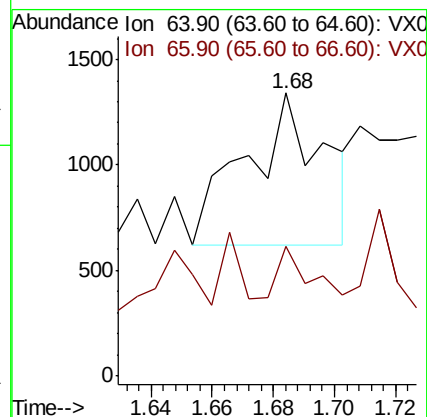
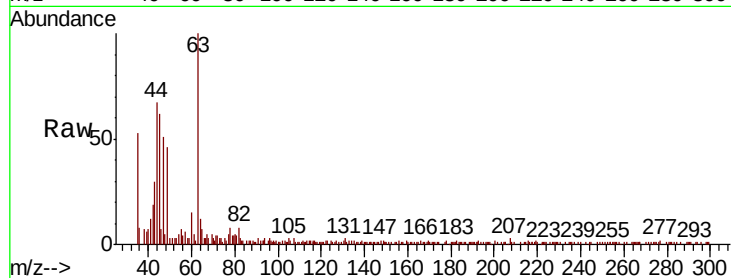
HD-01-122018

Tot Ion: 64 Resp: 1276

Ion Ratio Lower Upper

64 100

66 31.6 26.4 39.6



#11

Tert butyl alcohol

Concen: 0.206 ug/l

RT: 3.11 min Scan# 321

Delta R.T. 0.04 min

Lab File: VX006794.D

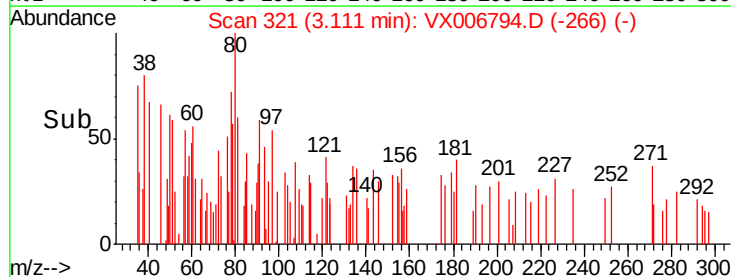
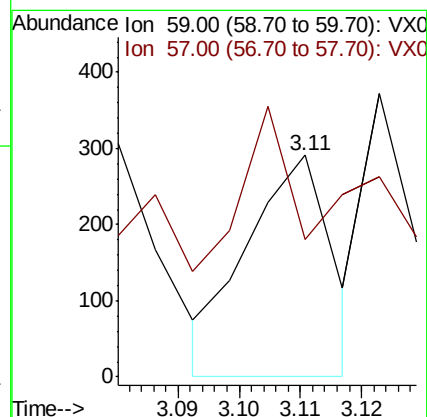
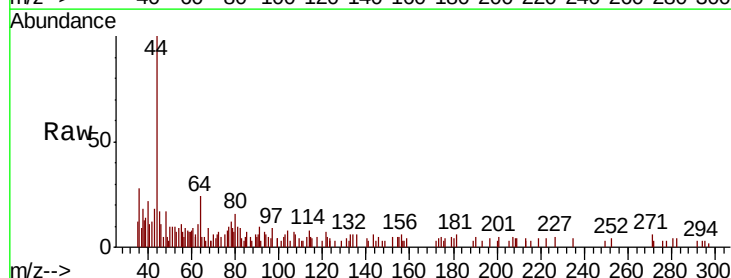
Acq: 24 Dec 2018 14:51

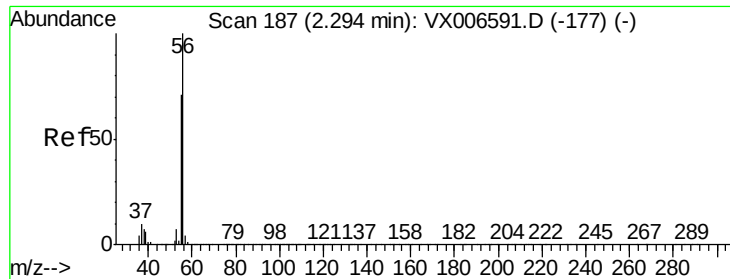
Tgt Ion: 59 Resp: 279

Ion Ratio Lower Upper

59 100

57 54.5 8.5 12.7#





#13

Acrolein

Concen: 0.679 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

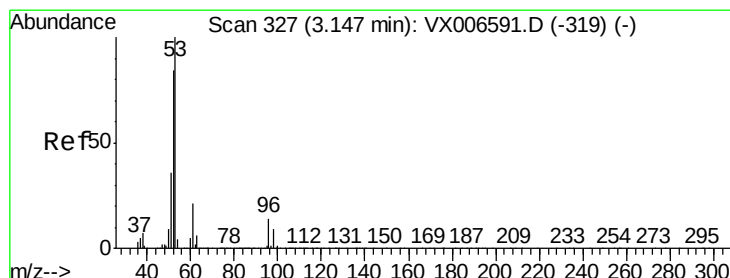
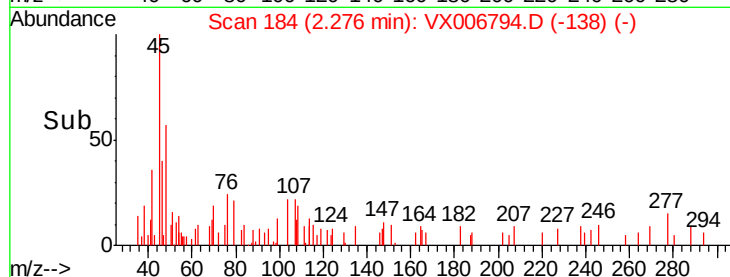
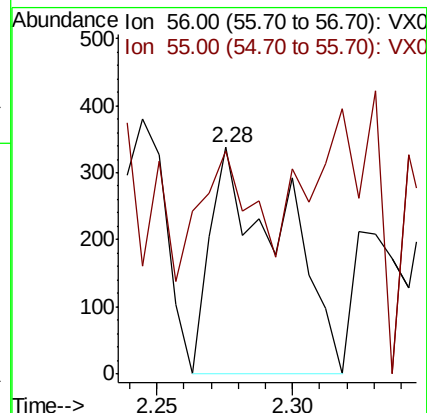
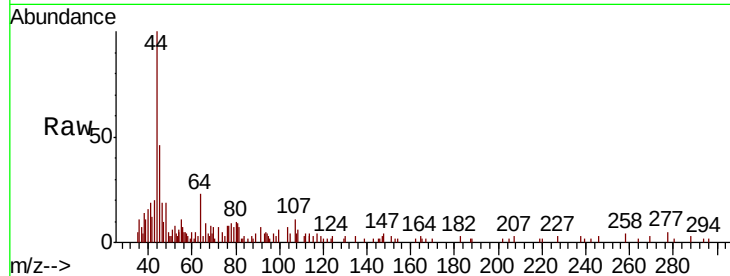
HD-01-122018

Tot Ion: 56 Resp: 621

Ion Ratio Lower Upper

56 100

55 41.1 58.2 87.4#



#15

Acrylonitrile

Concen: 0.246 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

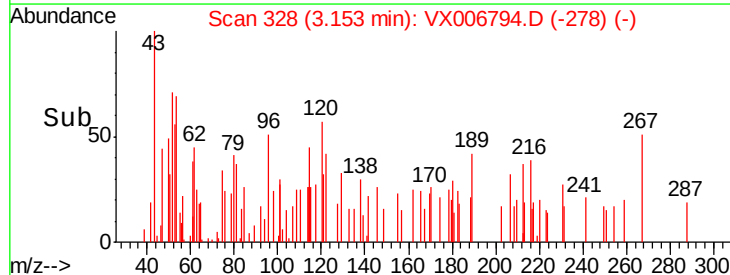
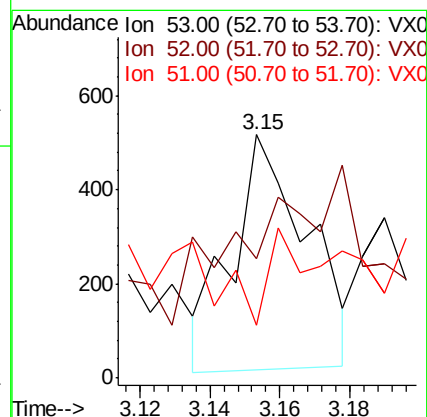
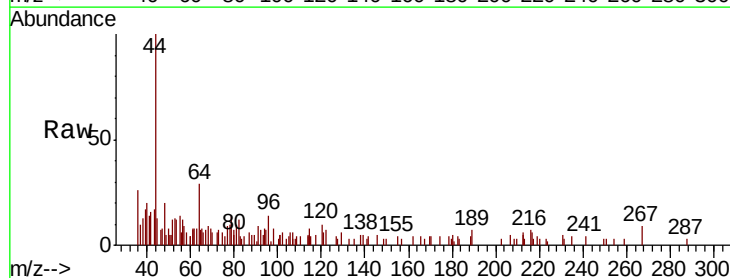
Tgt Ion: 53 Resp: 741

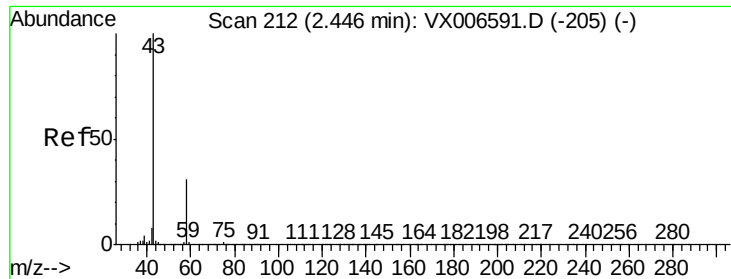
Ion Ratio Lower Upper

53 100

52 0.0 66.0 99.0#

51 22.1 28.6 42.8#

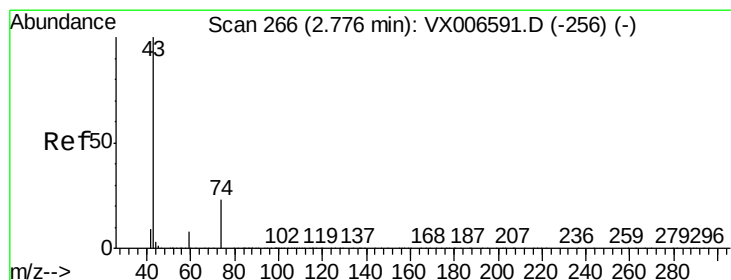
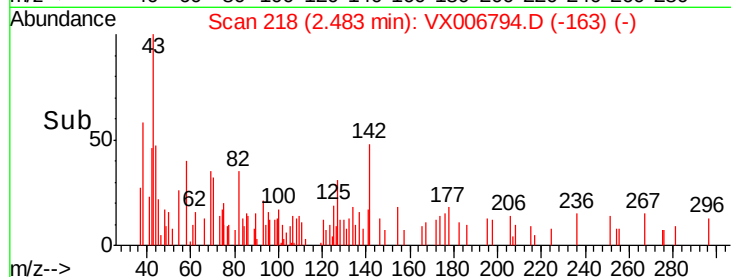
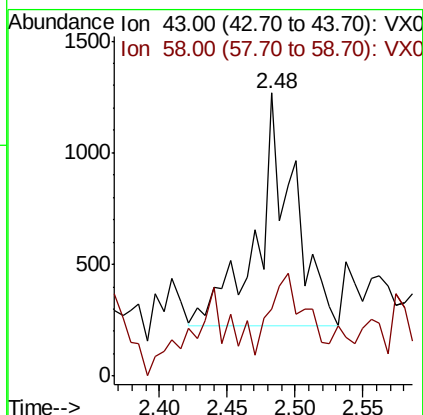
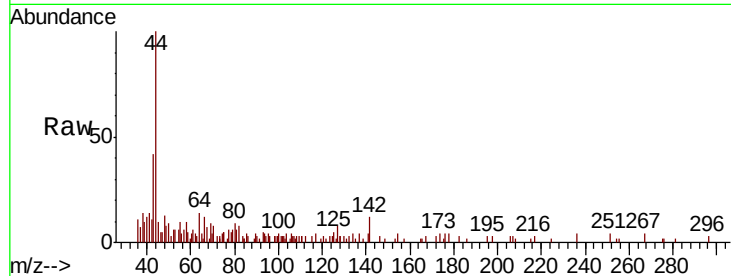




#16
Acetone
Concen: 0.711 ug/l
RT: 2.48 min Scan# 218
Delta R.T. 0.04 min
Lab File: VX006794.D
Acq: 24 Dec 2018 14:51

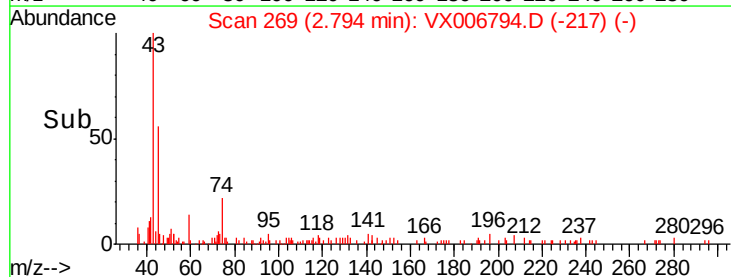
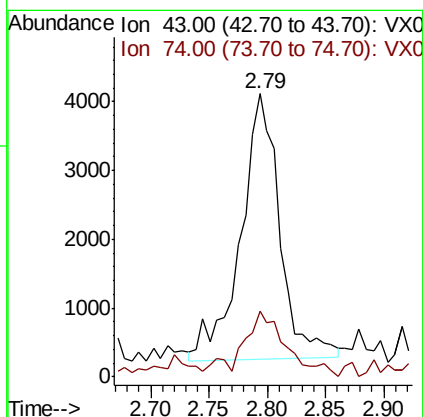
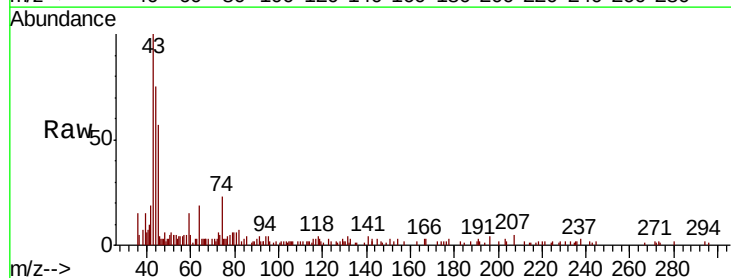
Instrument :
MSVOA_X
ClientSampleId :
HD-01-122018

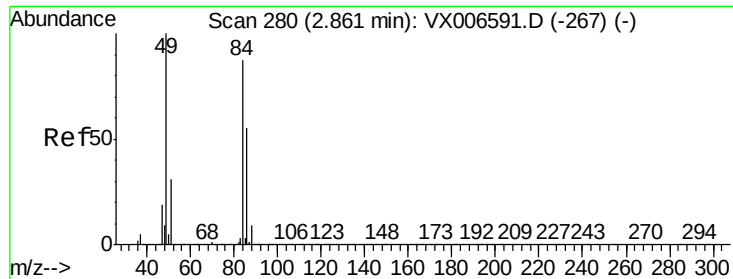
Tot Ion: 43 Resp: 1984
Ion Ratio Lower Upper
43 100
58 8.1 25.0 37.6#



#18
Methyl Acetate
Concen: 1.104 ug/l
RT: 2.79 min Scan# 269
Delta R.T. 0.02 min
Lab File: VX006794.D
Acq: 24 Dec 2018 14:51

Tgt Ion: 43 Resp: 9053
Ion Ratio Lower Upper
43 100
74 25.2 18.6 28.0

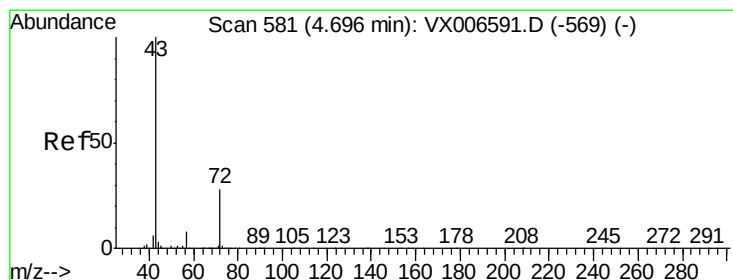
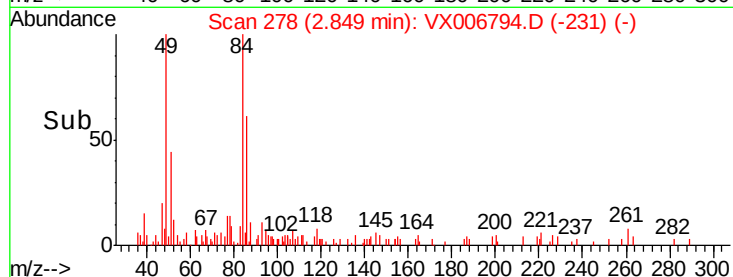
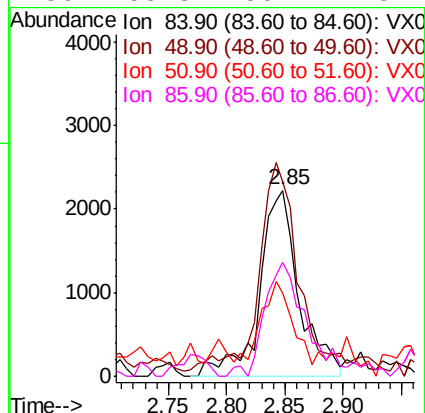
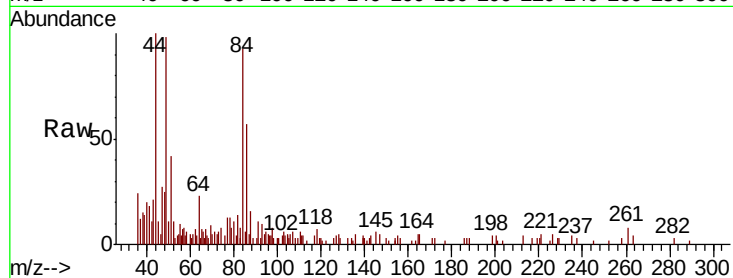




#20
Methvlene Chloride
Concen: 0.911 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX006794.D
Acq: 24 Dec 2018 14:51

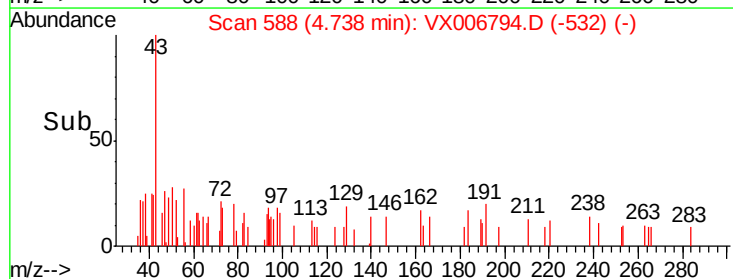
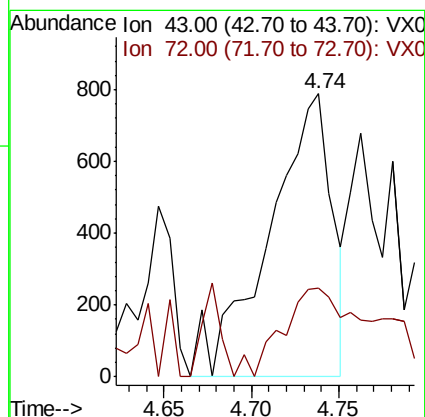
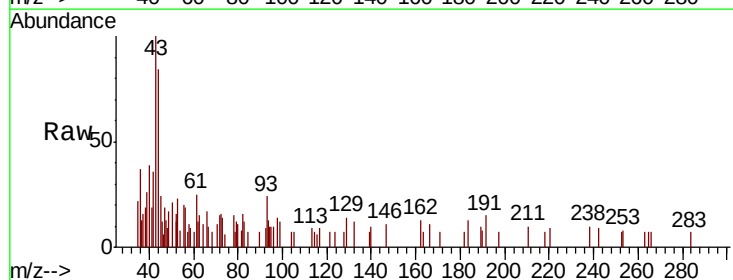
Instrument :
MSVOA_X
ClientSampleId :
HD-01-122018

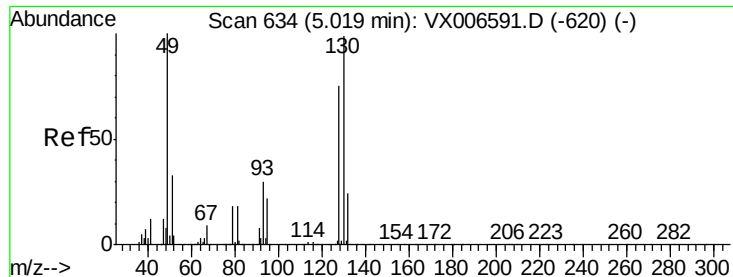
Tot Ion:	84	Resp:	5253
Ion	Ratio	Lower	Upper
84	100		
49	100.9	91.8	137.6
51	34.3	28.5	42.7
86	55.8	50.2	75.2



#25
2-Butanone
Concen: 0.508 ug/l
RT: 4.74 min Scan# 588
Delta R.T. 0.04 min
Lab File: VX006794.D
Acq: 24 Dec 2018 14:51

Tgt Ion:	43	Resp:	1991
Ion	Ratio	Lower	Upper
43	100		
72	31.5	22.4	33.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

Delta R.T. 0.02 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

HD-01-122018

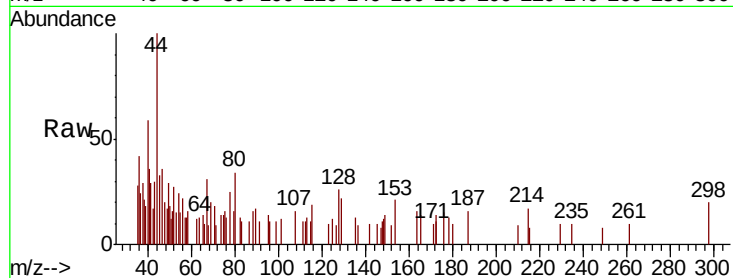
Tot Ion: 49 Resp: 94

Ion Ratio Lower Upper

49 100

129 101.1 0.0 5.4#

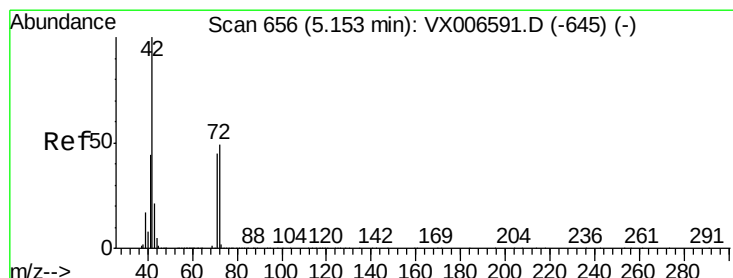
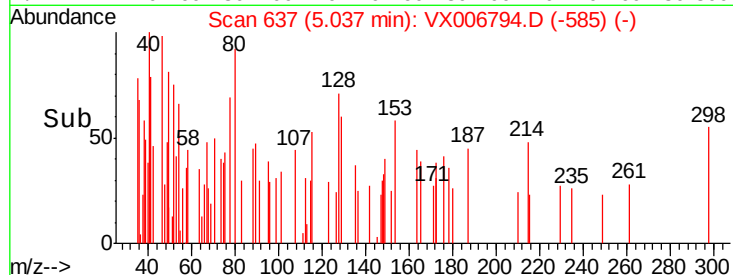
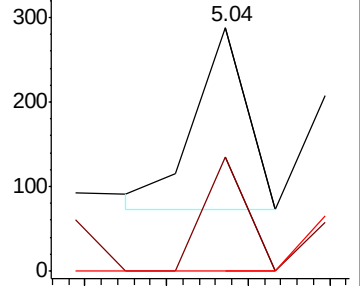
130 0.0 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.207 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

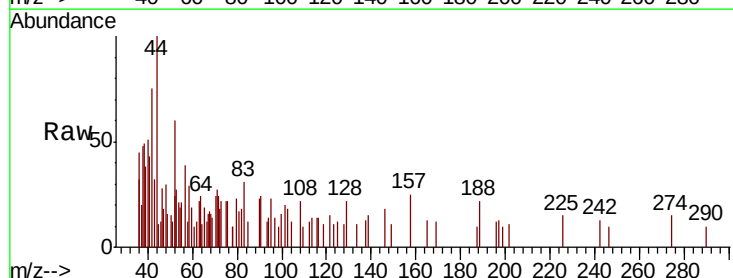
Tgt Ion: 42 Resp: 534

Ion Ratio Lower Upper

42 100

72 45.9 38.9 58.3

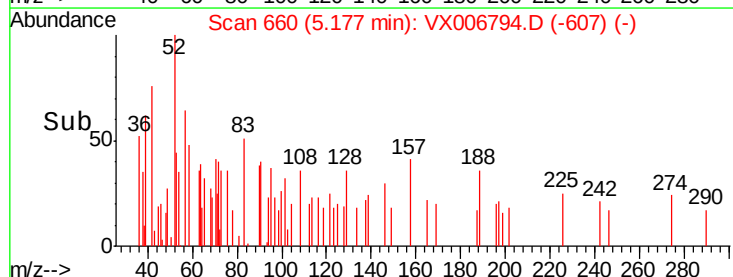
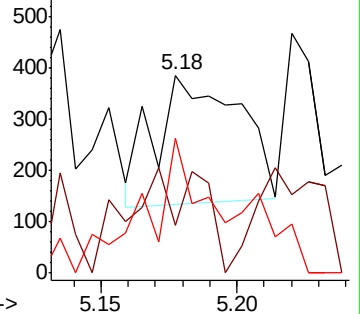
71 73.2 36.2 54.4#

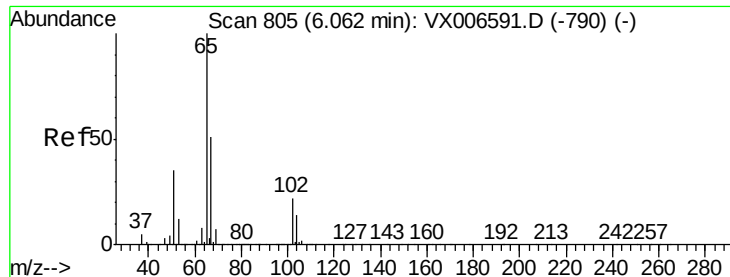


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.872 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

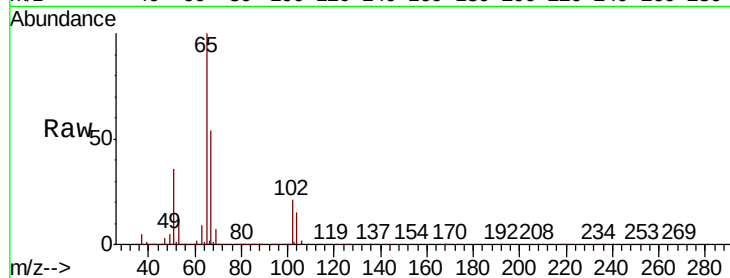
HD-01-122018

Tot Ion: 65 Resp: 284542

Ion Ratio Lower Upper

65 100

67 54.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

120000

100000

80000

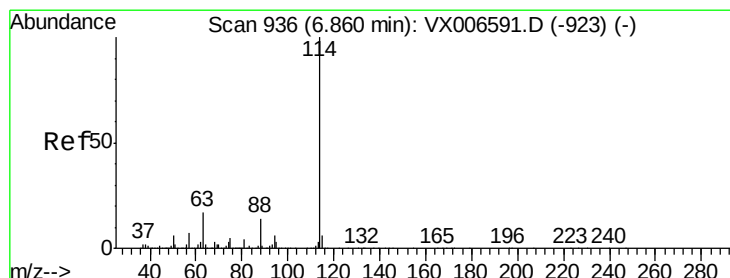
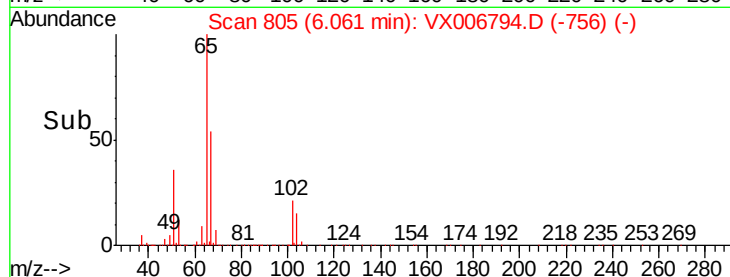
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

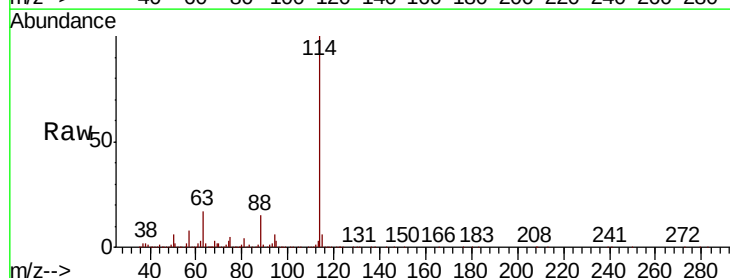
Tgt Ion: 114 Resp: 858422

Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.8

88 14.7 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

500000

400000

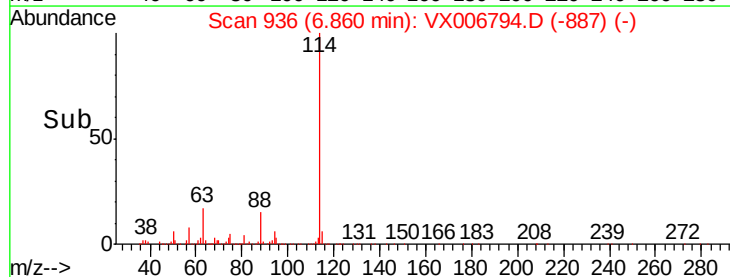
300000

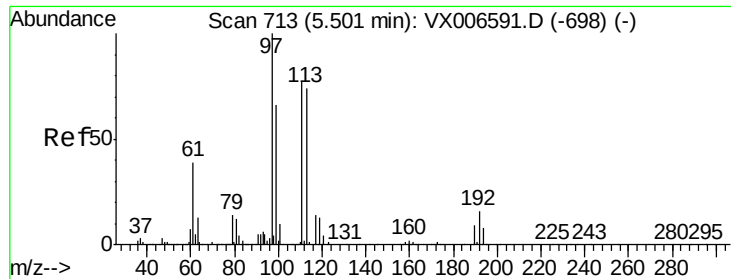
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 43.925 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

HD-01-122018

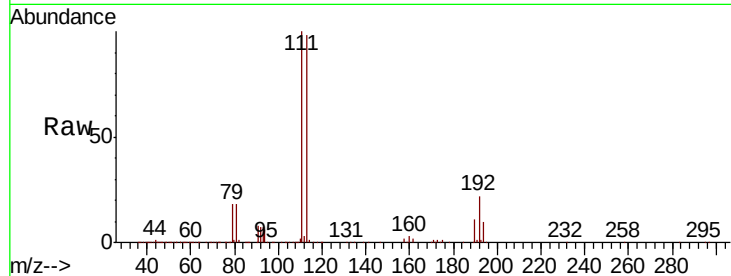
Tot Ion:113 Resp: 238446

Ion Ratio Lower Upper

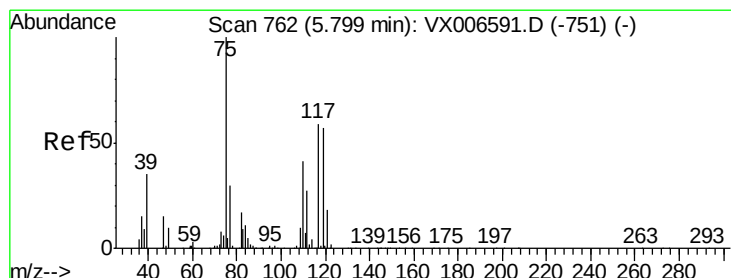
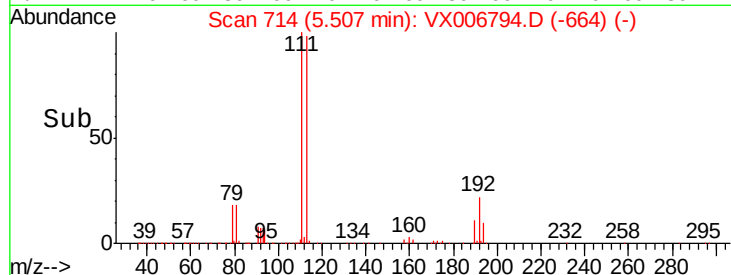
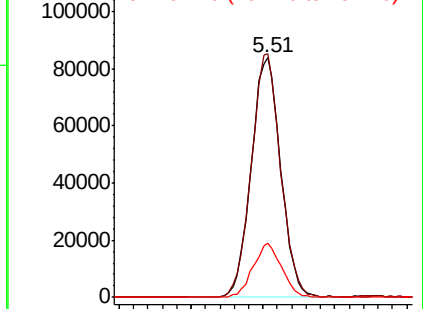
113 100

111 100.4 81.6 122.4

192 21.8 16.7 25.1



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: 5.040 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

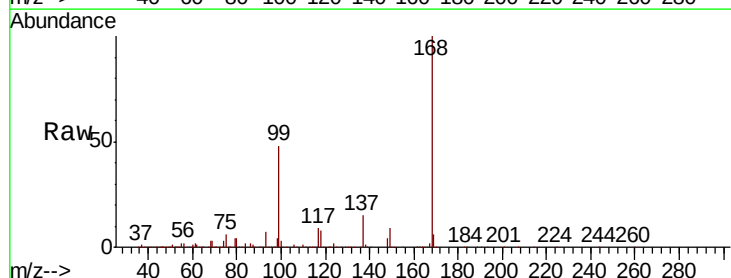
Tgt Ion: 75 Resp: 35831

Ion Ratio Lower Upper

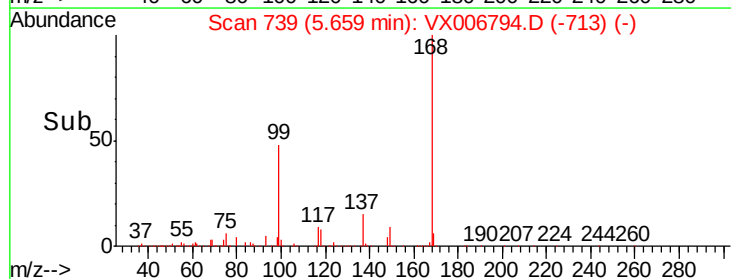
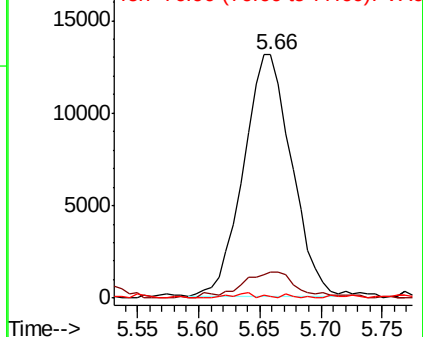
75 100

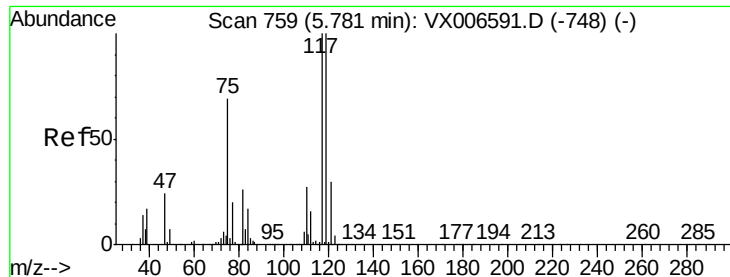
110 12.4 20.2 60.5#

77 0.3 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.339 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

HD-01-122018

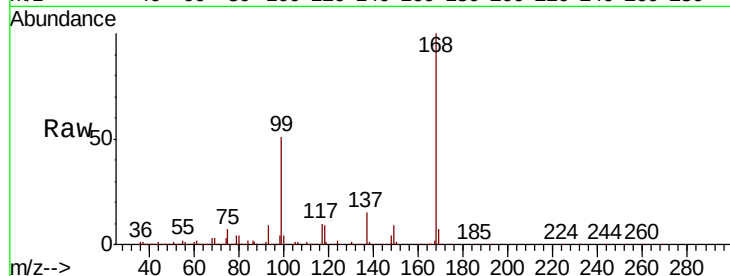
Tot Ion:117 Resp: 50706

Ion Ratio Lower Upper

117 100

119 5.1 79.4 119.2#

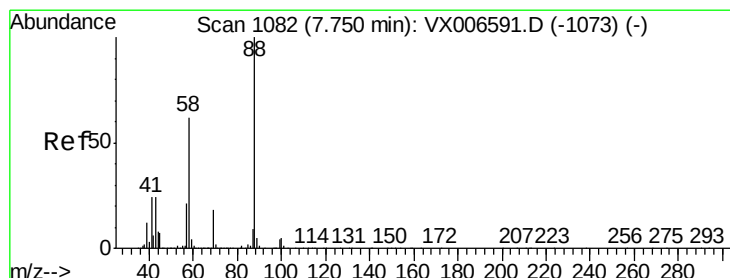
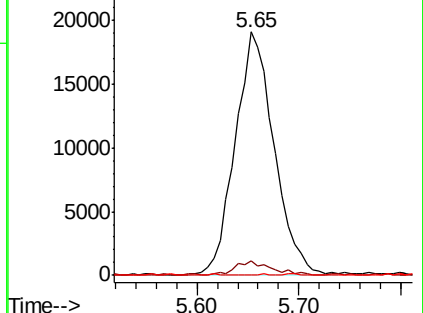
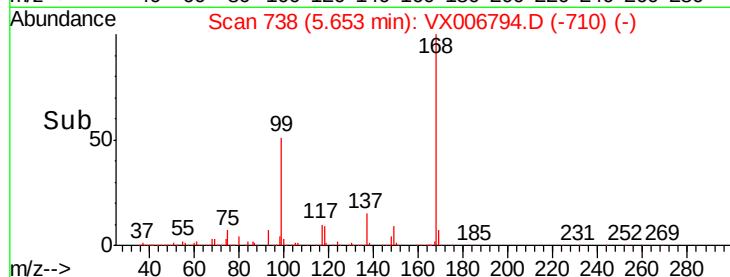
121 0.0 24.0 36.0#



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: Below Cal

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

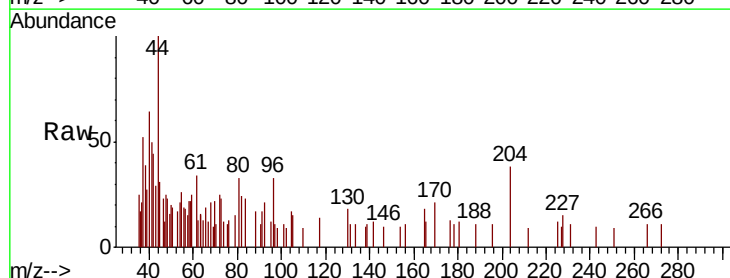
Tgt Ion: 88 Resp: 106

Ion Ratio Lower Upper

88 100

43 78.3 22.2 33.4#

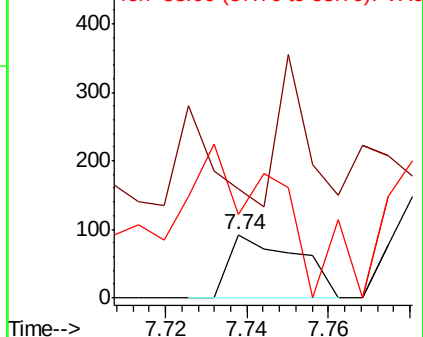
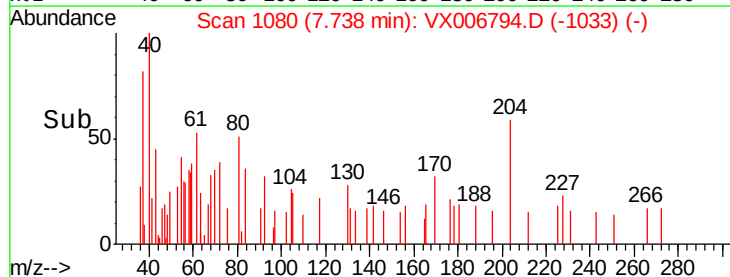
58 288.7 51.0 76.4#

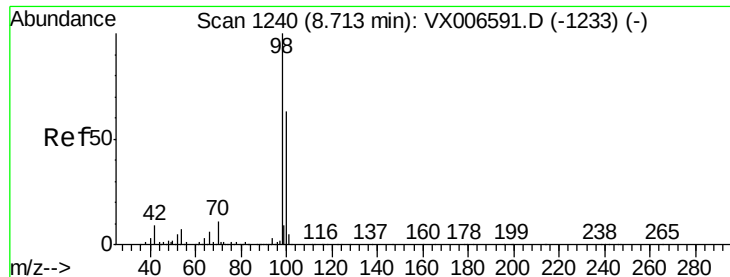


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.800 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

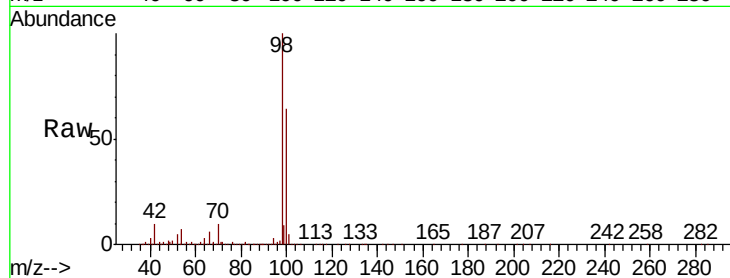
HD-01-122018

Tot Ion: 98 Resp: 998724

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

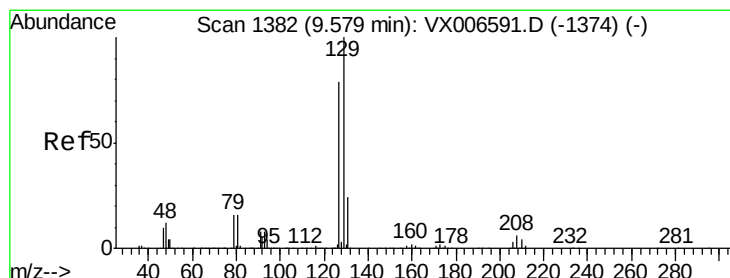
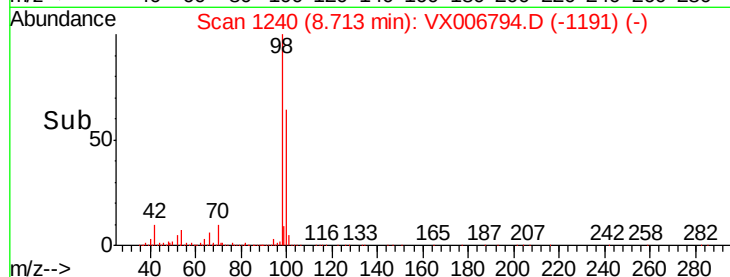
600000

400000

200000

0

Time--> 8.60 8.70 8.80



#60

Dibromochloromethane

Concen: 2.335 ug/l

RT: 9.62 min Scan# 1388

Delta R.T. 0.04 min

Lab File: VX006794.D

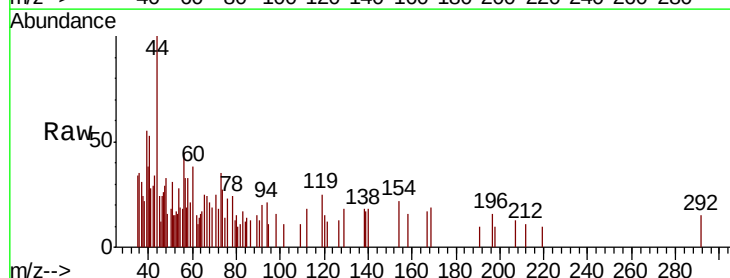
Acq: 24 Dec 2018 14:51

Tgt Ion:129 Resp: 69

Ion Ratio Lower Upper

129 100

127 95.7 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

120

100

80

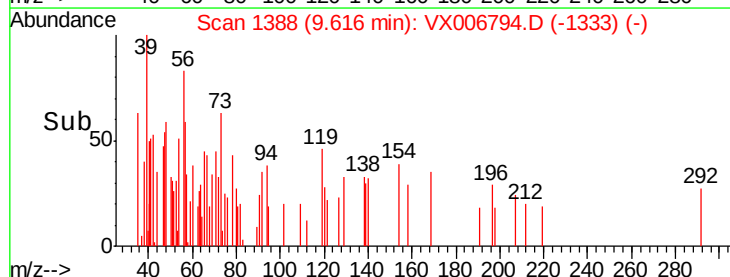
60

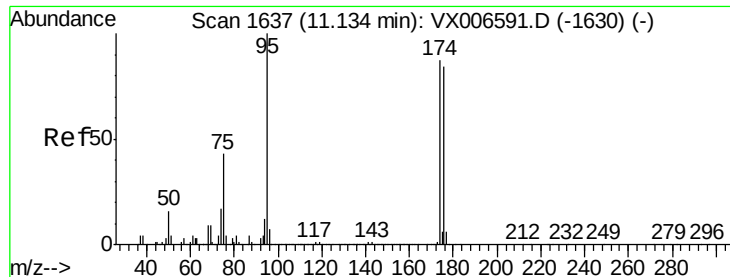
40

20

0

Time--> 9.60 9.61 9.62 9.63





#62

4-Bromofluorobenzene

Concen: 49.212 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

HD-01-122018

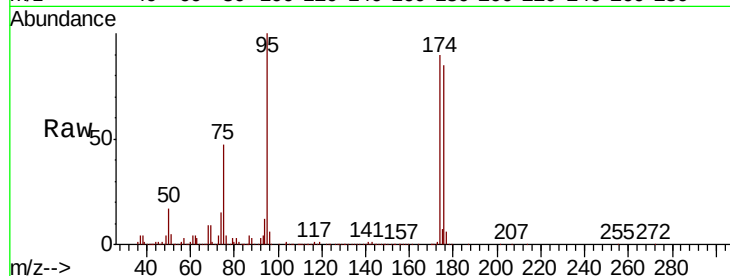
Tot Ion: 95 Resp: 368860

Ion Ratio Lower Upper

95 100

174 90.7 0.0 182.2

176 87.7 0.0 178.8

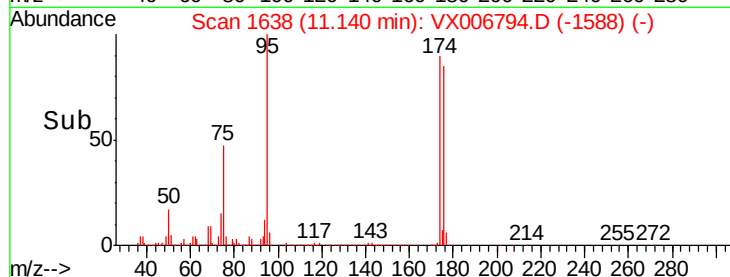


Abundance Ion 94.90 (94.60 to 95.60): VX006591.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX006591.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX006591.D (-1630) (-)

Time-->



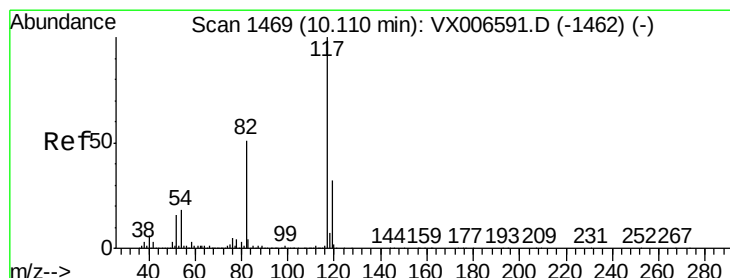
Abundance

Ion 94.90 (94.60 to 95.60): VX006794.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX006794.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX006794.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

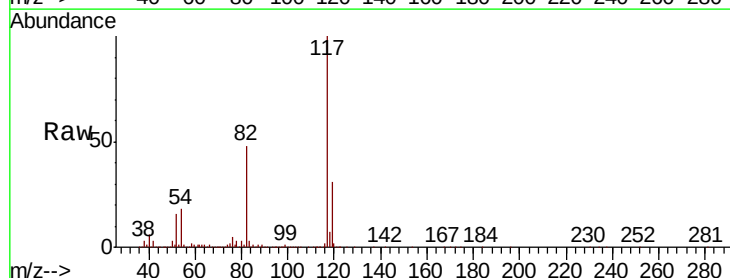
Tgt Ion: 117 Resp: 788601

Ion Ratio Lower Upper

117 100

82 47.8 41.0 61.6

119 31.3 25.4 38.0

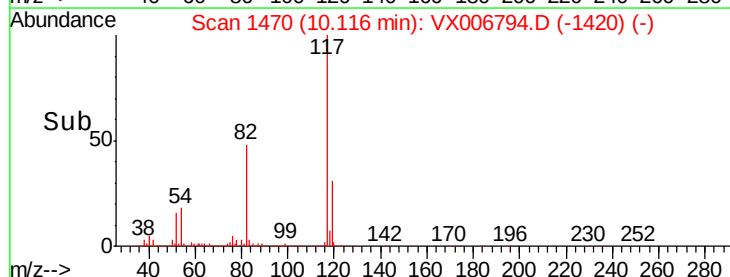


Abundance Ion 116.90 (116.60 to 117.60): VX006591.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006591.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006591.D (-1462) (-)

Time-->



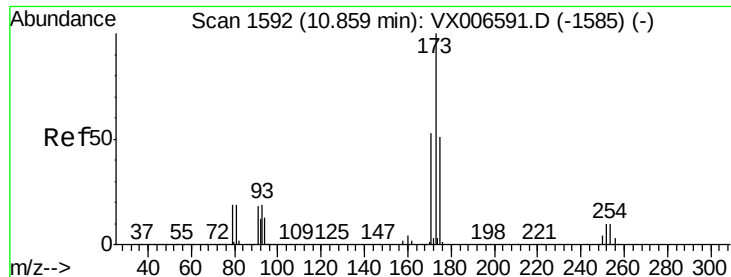
Abundance

Ion 116.90 (116.60 to 117.60): VX006794.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX006794.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX006794.D (-1420) (-)

Time-->



#71

Bromoform

Concen: 4.482 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. -0.15 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampled :

HD-01-122018

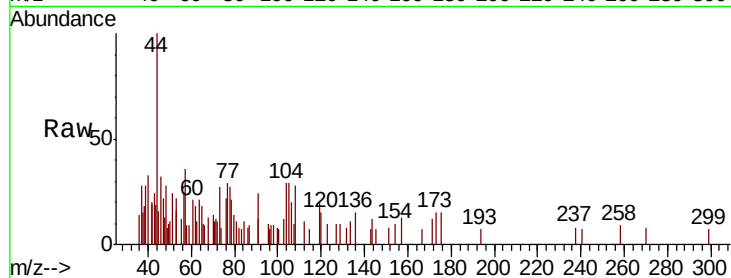
Tot Ion:173 Resp: 116

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

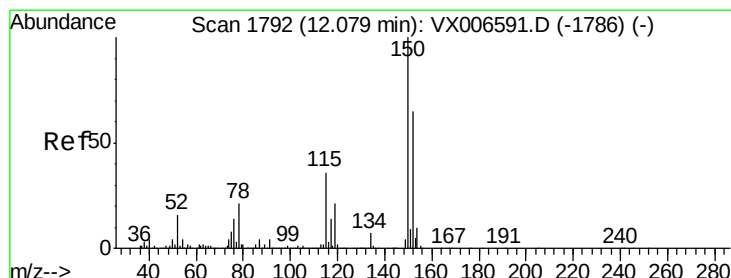
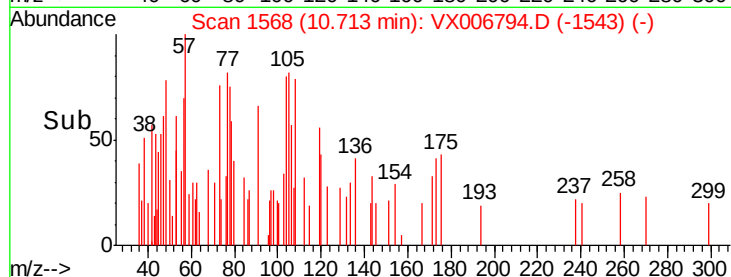
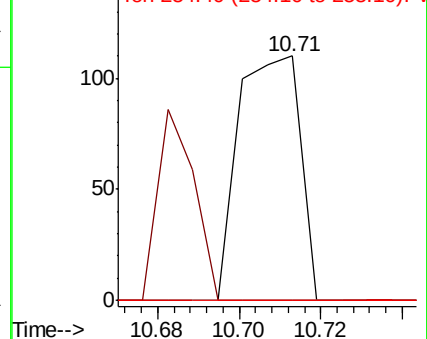
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

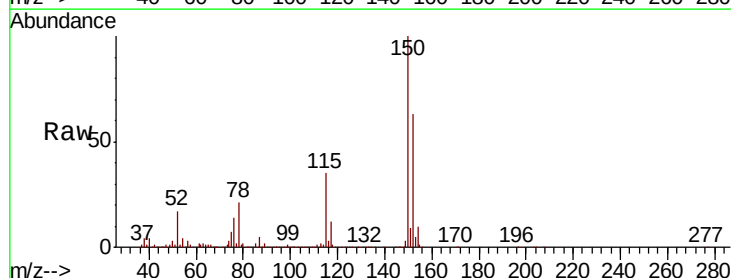
Tgt Ion:152 Resp: 413479

Ion Ratio Lower Upper

152 100

115 55.3 39.1 117.2

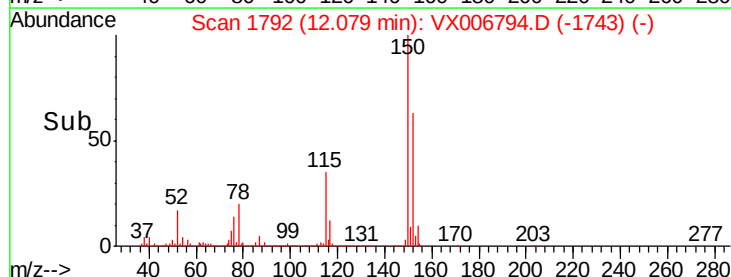
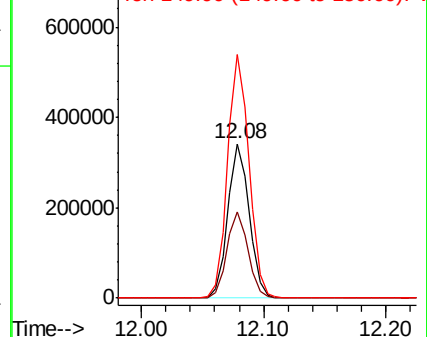
150 158.3 0.0 344.8

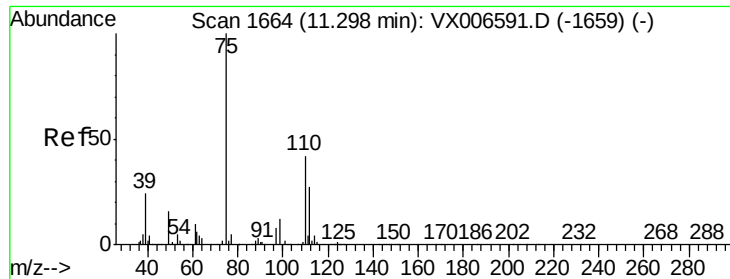


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.773 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

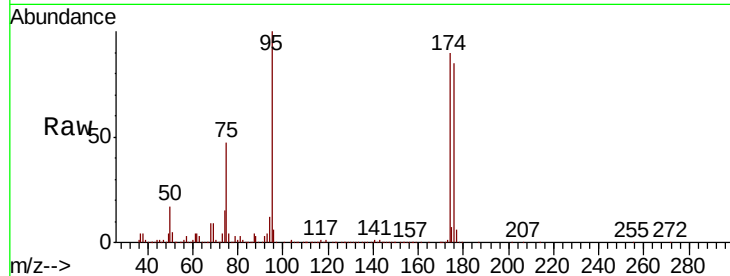
HD-01-122018

Tot Ion: 75 Resp: 174992

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

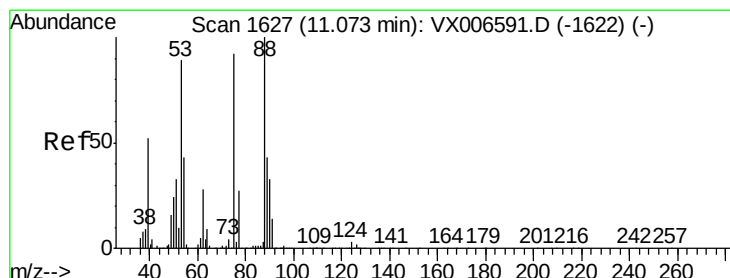
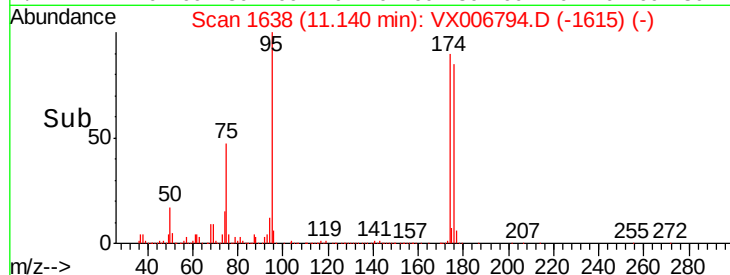
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 67.671 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

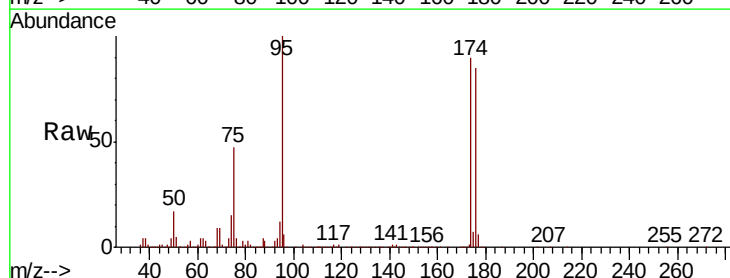
Tgt Ion: 75 Resp: 174992

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.1 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.14

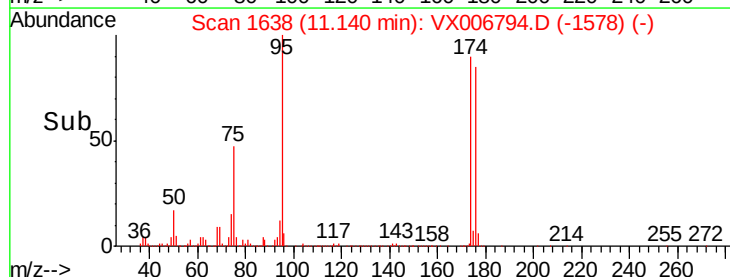
150000

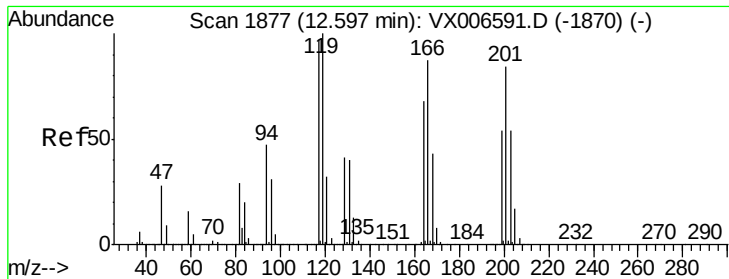
100000

50000

0

Time-->





#90

Hexachloroethane

Concen: 3.299 ug/l

RT: 12.45 min Scan# 1853

Delta R.T. -0.15 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

Instrument :

MSVOA_X

ClientSampleId :

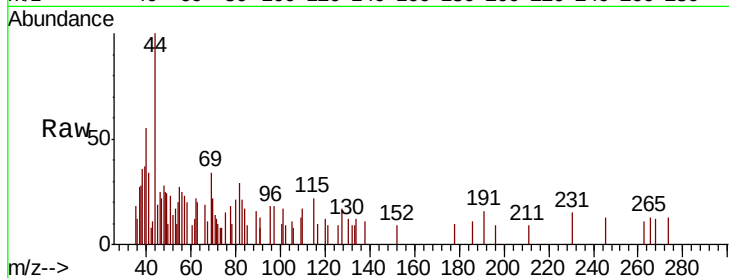
HD-01-122018

Tot Ion:117 Resp: 26

Ion Ratio Lower Upper

117 100

201 69.2 42.9 128.7

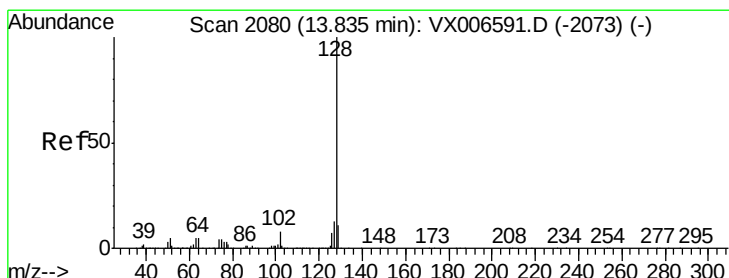
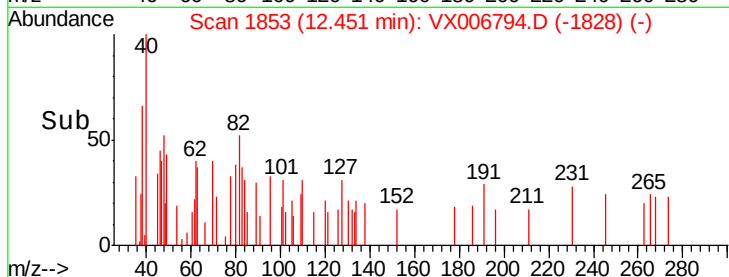


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.45

12.44 12.46



#95

Naphthalene

Concen: 0.520 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006794.D

Acq: 24 Dec 2018 14:51

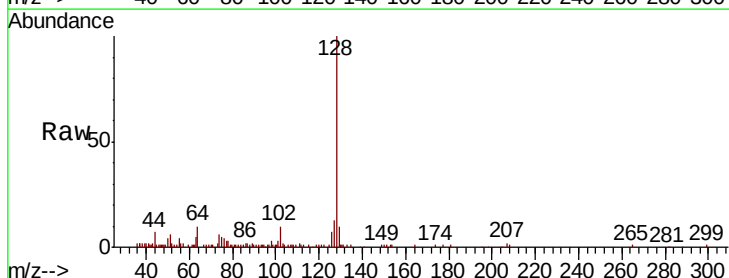
Tgt Ion:128 Resp: 15787

Ion Ratio Lower Upper

128 100

127 14.1 10.1 15.1

129 12.5 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.83

13.75 13.80 13.85 13.90

