

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013564.D
 Acq On : 23 Nov 2019 03:59
 Operator : JC/SP
 Sample : K5968-04 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-117N-20191121

Quant Time: Nov 23 04:24:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	617367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1010283	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	900020	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	417070	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	370795	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
35) Dibromofluoromethane	5.48	113	306496	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
50) Toluene-d8	8.71	98	1209005	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
62) 4-Bromofluorobenzene	11.14	95	398852	46.26	ug/l	0.00
Spiked Amount			Recovery	=	92.52%	

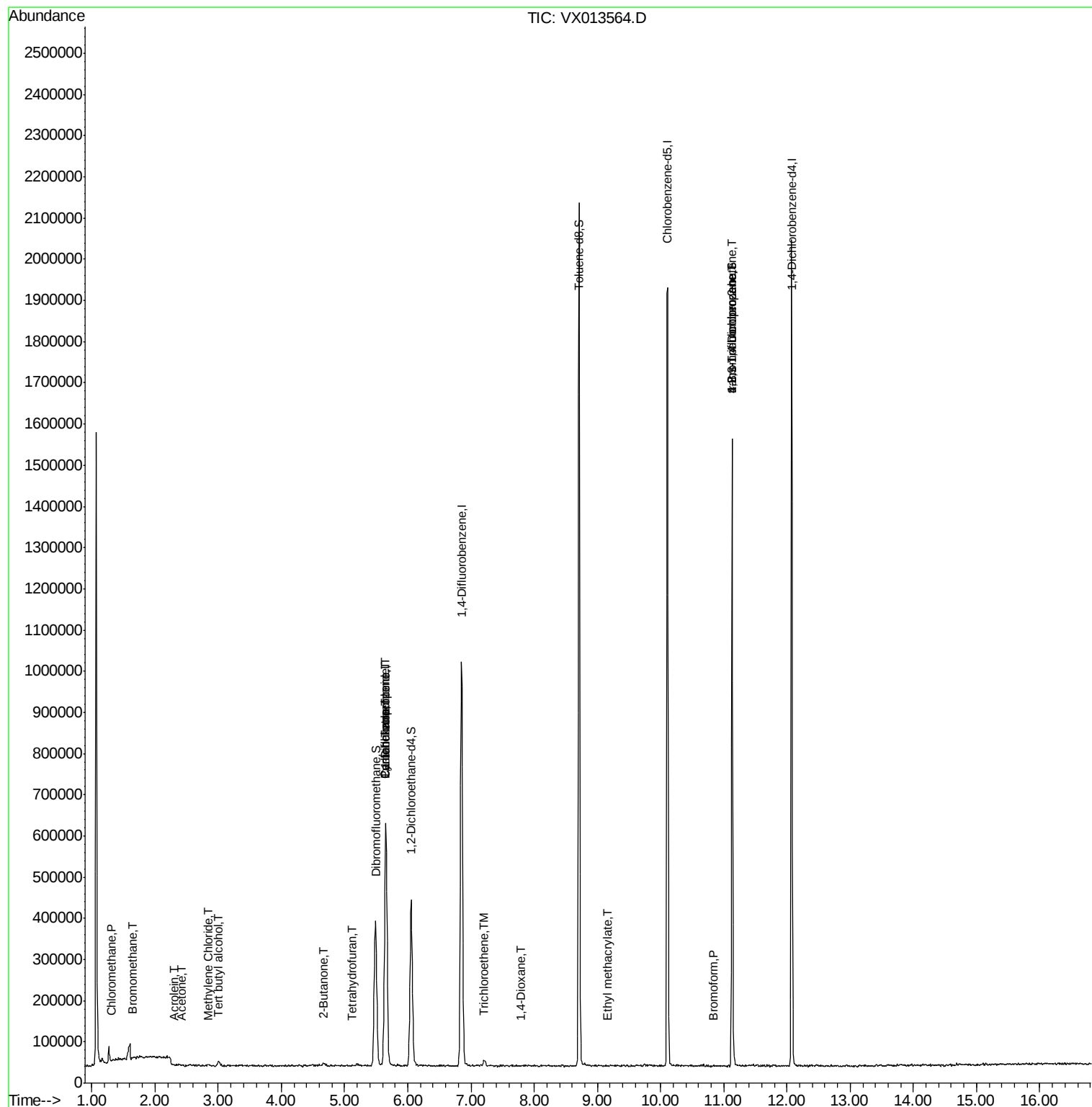
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1690	0.219	ug/l	89
5) Bromomethane	1.64	94	1387	0.227	ug/l	90
6) Chloroethane	1.66	64	3311	Below Cal	#	43
11) Tert butyl alcohol	3.00	59	8379	4.347	ug/l #	94
13) Acrolein	2.29	56	364	0.348	ug/l #	14
16) Acetone	2.43	43	1940	0.532	ug/l #	52
20) Methylene Chloride	2.84	84	1730	0.257	ug/l	89
25) 2-Butanone	4.66	43	2268	0.424	ug/l #	49
29) Tetrahydrofuran	5.12	42	924	0.280	ug/l #	66
31) Cyclohexane	5.65	56	10986	1.099	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	41422	4.779	ug/l #	53
38) Carbon Tetrachloride	5.65	117	55338	6.529	ug/l #	16
44) Trichloroethene	7.21	130	5477	0.737	ug/l	93
49) 1,4-Dioxane	7.78	88	577	3.027	ug/l #	50
56) Ethyl methacrylate	9.17	69	168	1.577	ug/l #	1
71) Bromoform	10.83	173	233	3.238	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	195833	23.117	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	195833	59.504	ug/l #	10

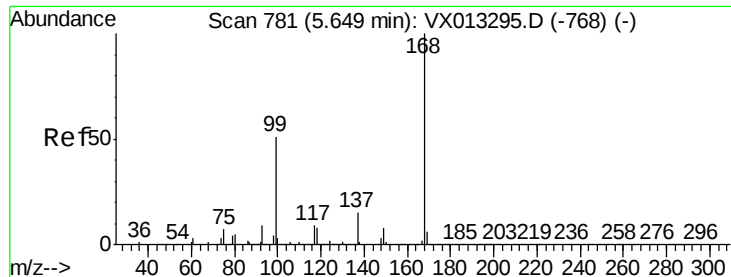
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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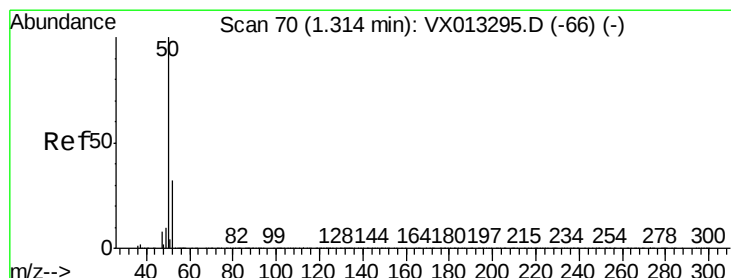
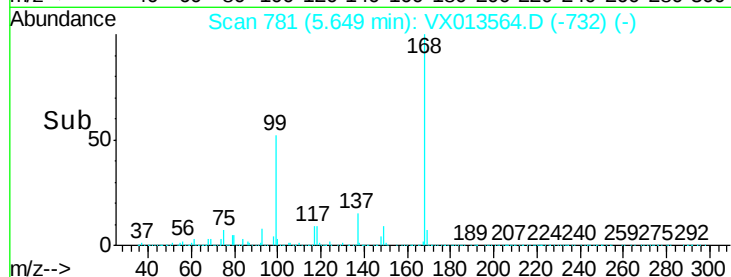
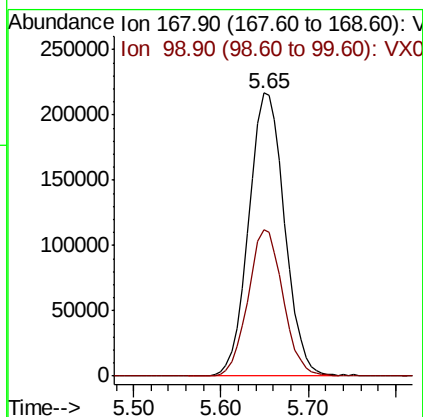
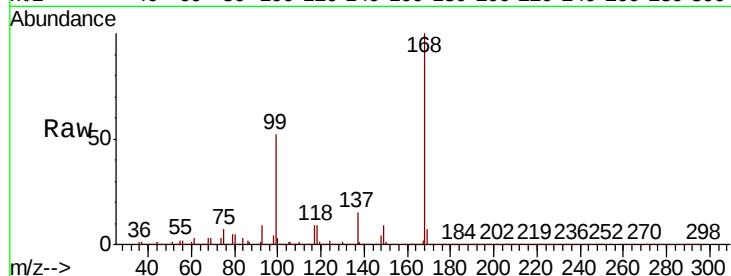


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. 0.00 min
 Lab File: VX013564.D
 Acq: 23 Nov 2019 03:59

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-117N-20191121

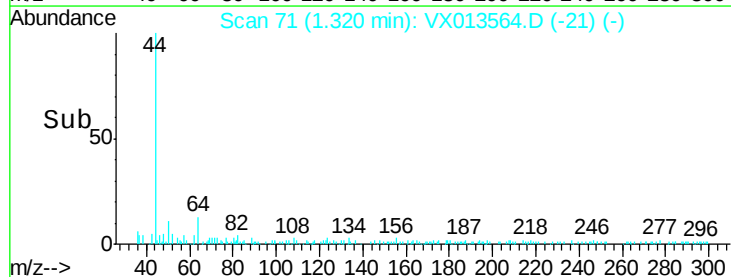
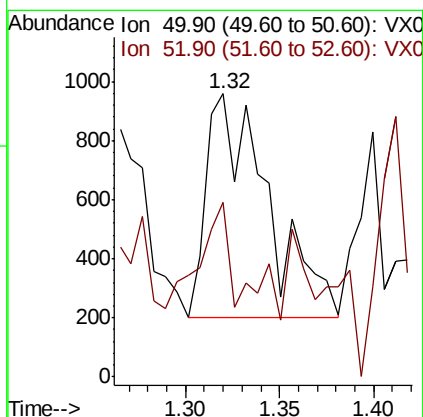
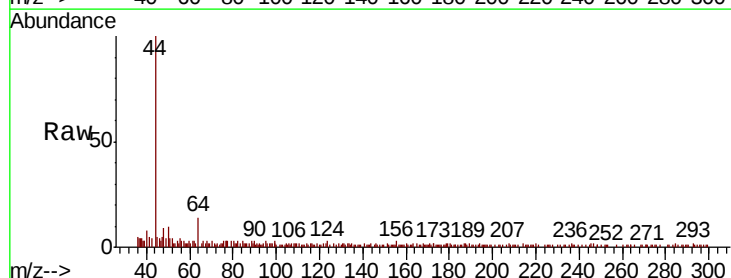
Tot Ion:168 Resp: 617367
 Ion Ratio Lower Upper
 168 100
 99 51.6 40.8 61.2

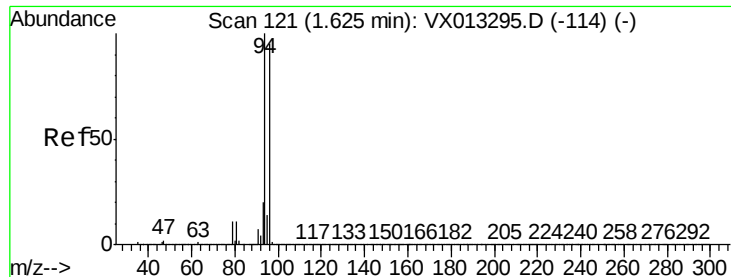


#3

Chloromethane
 Concen: 0.219 ug/l
 RT: 1.32 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VX013564.D
 Acq: 23 Nov 2019 03:59

Tgt Ion: 50 Resp: 1690
 Ion Ratio Lower Upper
 50 100
 52 38.1 25.5 38.3





#5

Bromomethane

Concen: 0.227 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Instrument :

MSVOA_X

ClientSampleId :

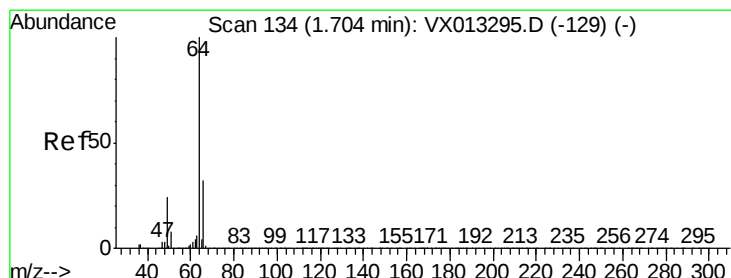
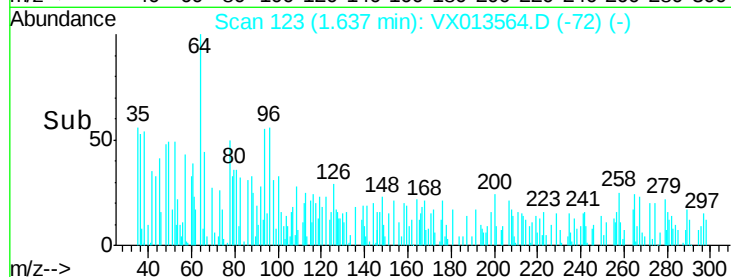
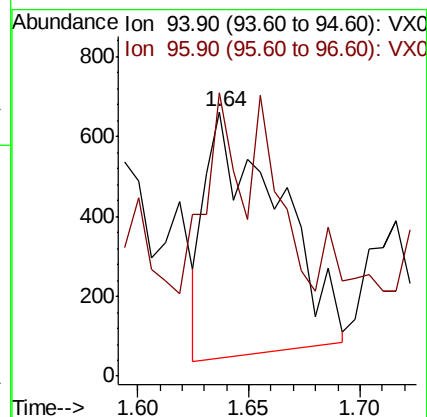
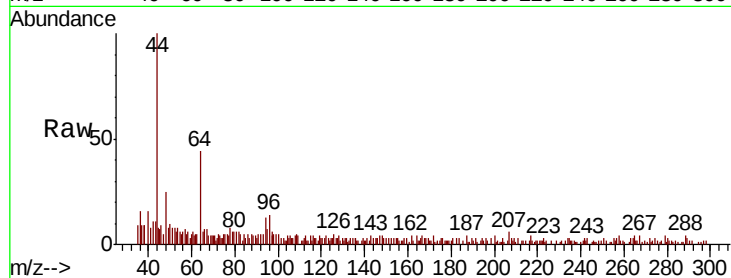
MH-117N-20191121

Tot Ion: 94 Resp: 1387

Ion Ratio Lower Upper

94 100

96 85.3 75.8 113.8



#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 127

Delta R.T. -0.04 min

Lab File: VX013564.D

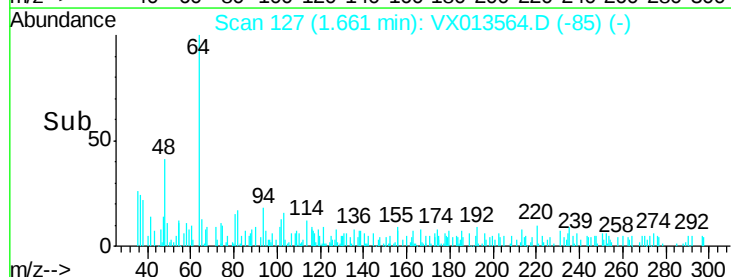
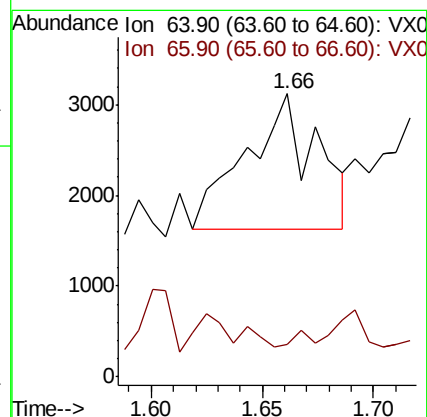
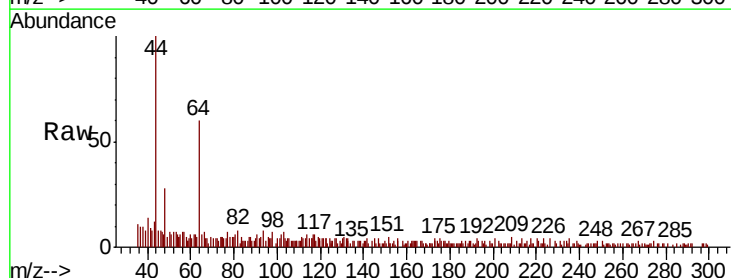
Acq: 23 Nov 2019 03:59

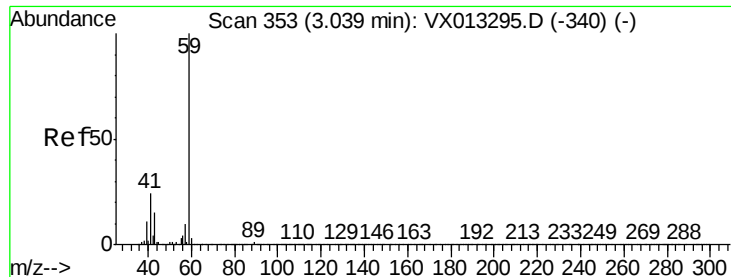
Tgt Ion: 64 Resp: 3311

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#

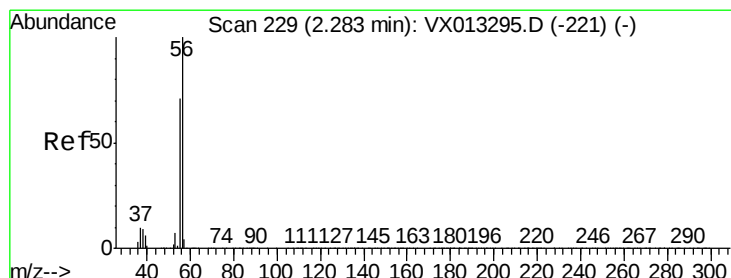
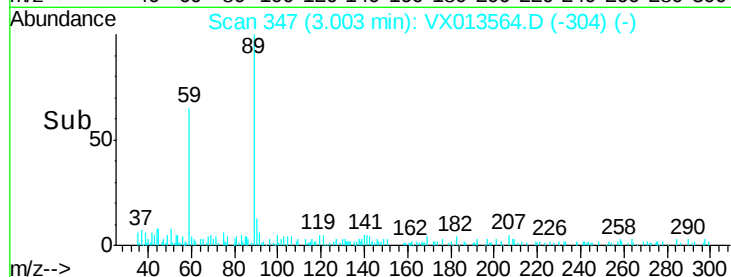
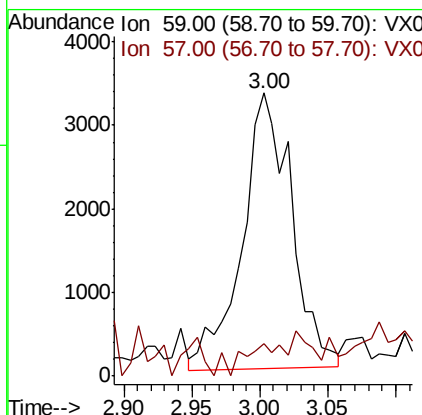
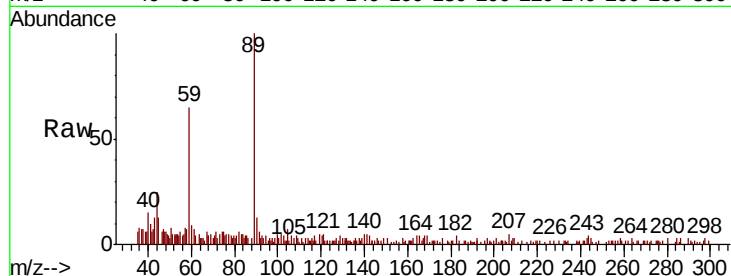




#11
Tert butyl alcohol
Concen: 4.347 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX013564.D
Acq: 23 Nov 2019 03:59

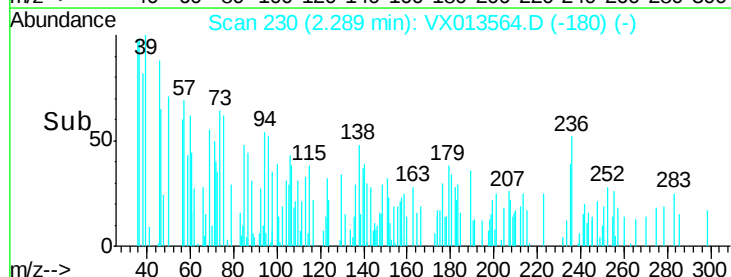
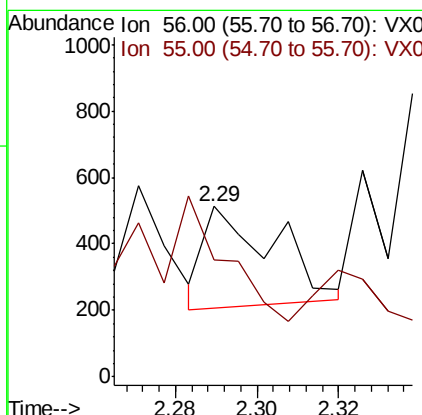
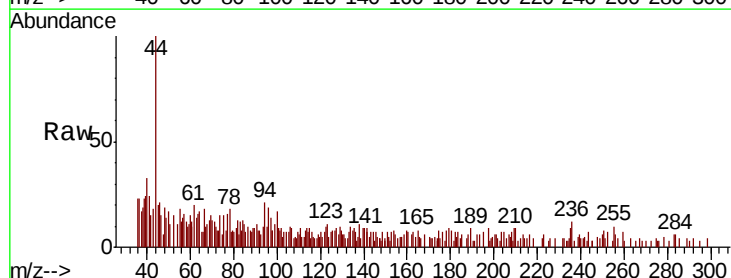
Instrument :
MSVOA_X
ClientSampleId :
MH-117N-20191121

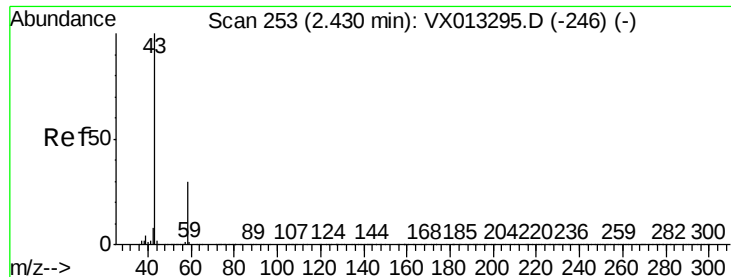
Tot Ion: 59 Resp: 8379
Ion Ratio Lower Upper
59 100
57 7.8 8.0 12.0#



#13
Acrolein
Concen: 0.348 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX013564.D
Acq: 23 Nov 2019 03:59

Tgt Ion: 56 Resp: 364
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#





#16

Acetone

Concen: 0.532 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Instrument :

MSVOA_X

ClientSampleId :

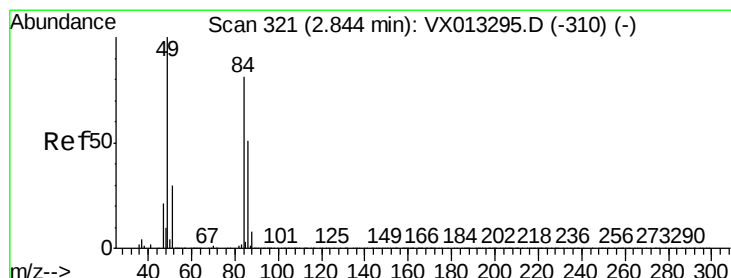
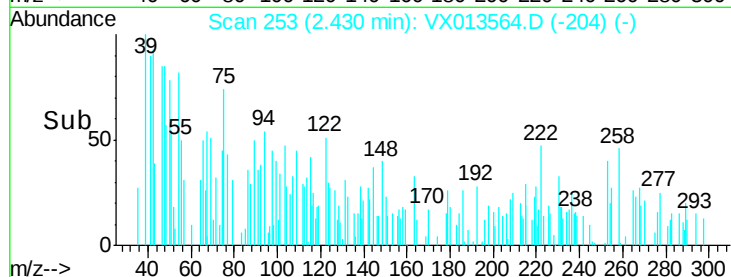
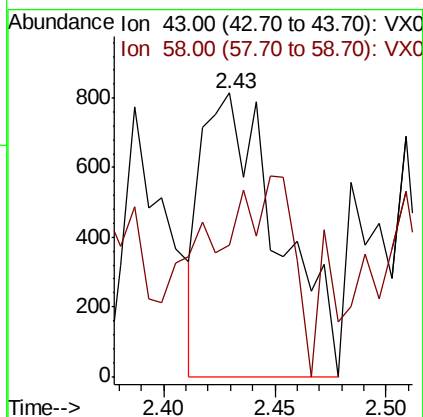
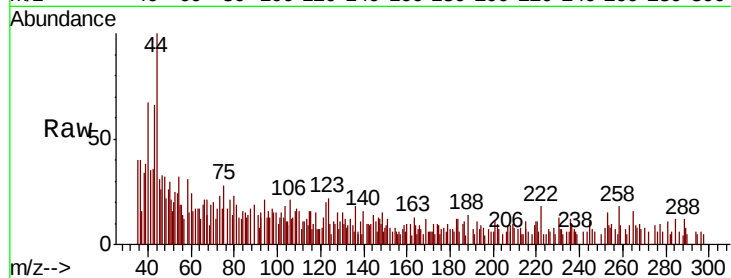
MH-117N-20191121

Tot Ion: 43 Resp: 1940

Ion Ratio Lower Upper

43 100

58 4.2 24.3 36.5#



#20

Methylene Chloride

Concen: 0.257 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Tgt Ion: 84 Resp: 1730

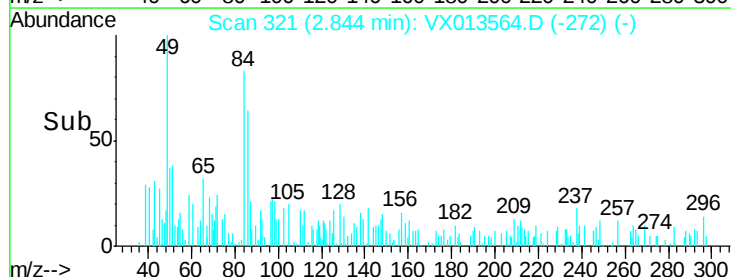
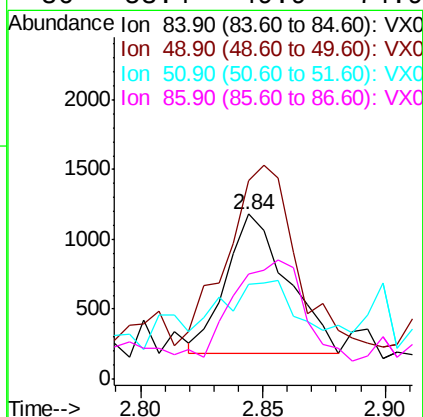
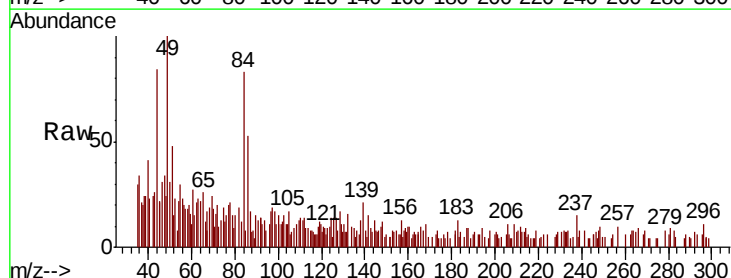
Ion Ratio Lower Upper

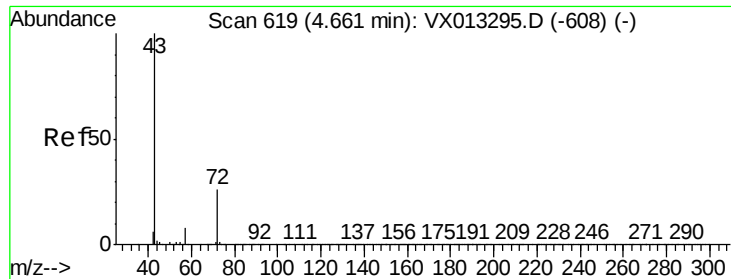
84 100

49 108.2 98.2 147.4

51 33.9 29.9 44.9

86 53.4 49.9 74.9





#25

2-Butanone

Concen: 0.424 ug/l

RT: 4.66 min Scan# 619

Delta R.T. -0.00 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Instrument :

MSVOA_X

ClientSampleId :

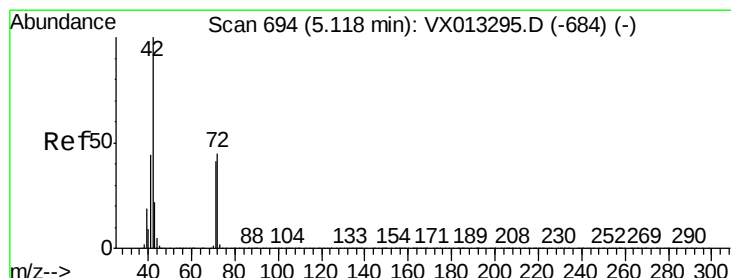
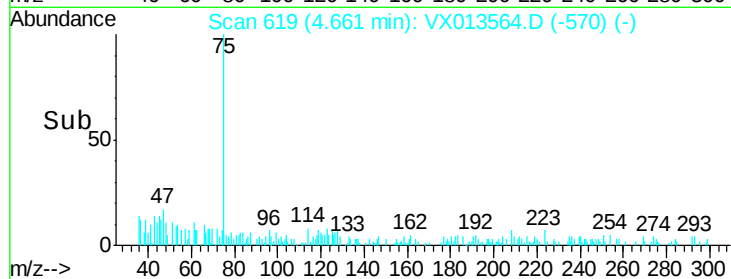
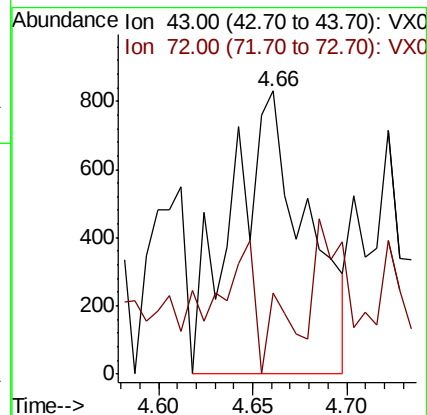
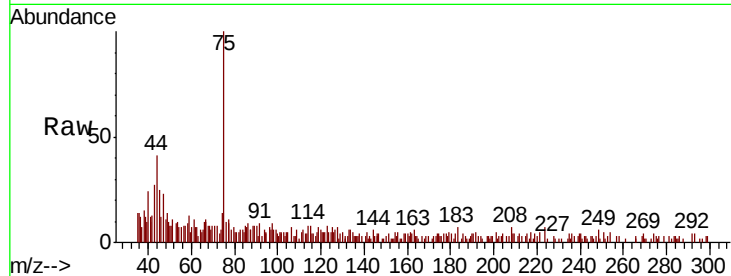
MH-117N-20191121

Tot Ion: 43 Resp: 2268

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.280 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

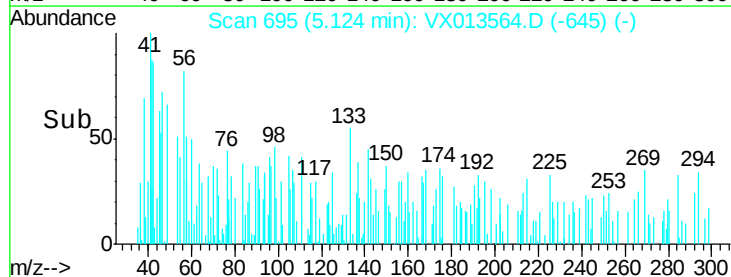
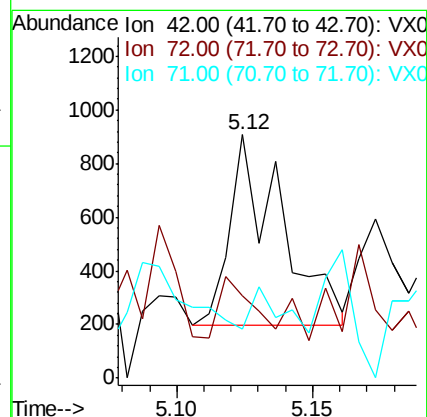
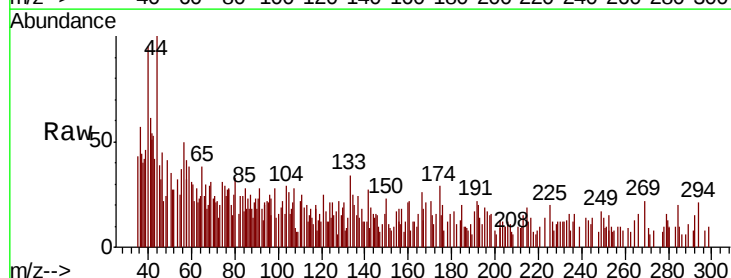
Tgt Ion: 42 Resp: 924

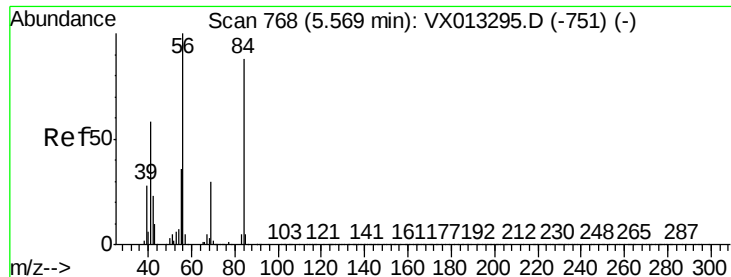
Ion Ratio Lower Upper

42 100

72 20.3 35.8 53.8#

71 22.5 33.4 50.0#





#31

Cyclohexane

Concen: 1.099 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Instrument :

MSVOA_X

ClientSampleId :

MH-117N-20191121

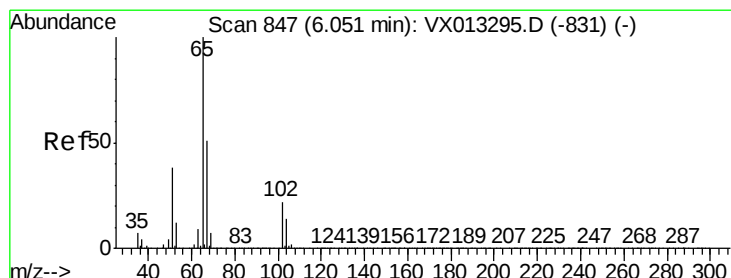
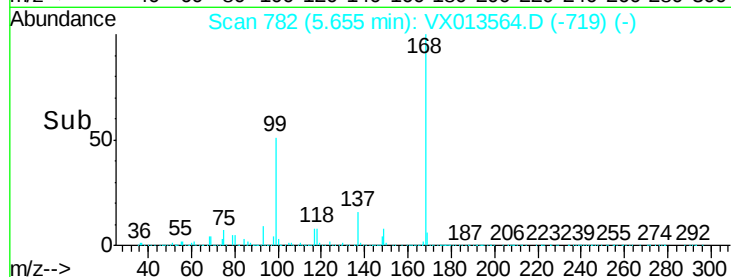
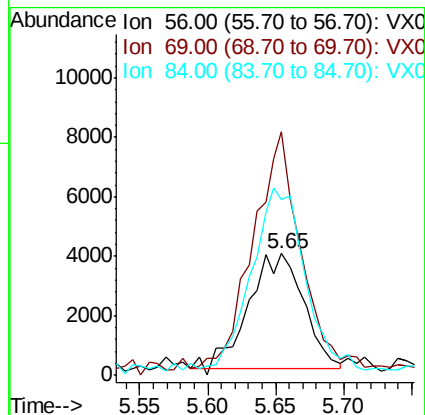
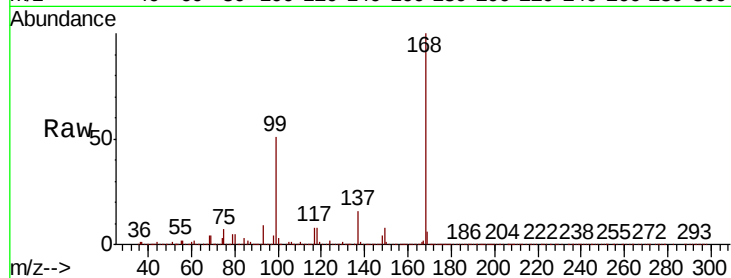
Tot Ion: 56 Resp: 10986

Ion Ratio Lower Upper

56 100

69 215.6 23.7 35.5#

84 149.0 70.6 105.8#



#33

1,2-Dichloroethane-d4

Concen: 50.697 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013564.D

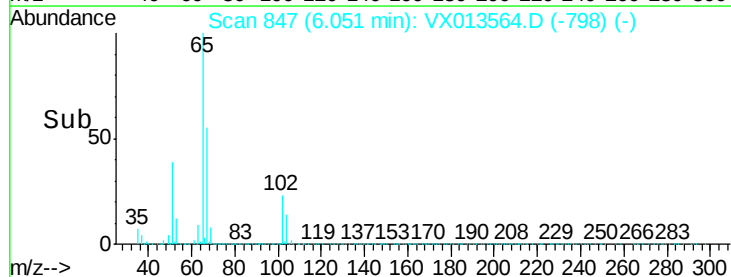
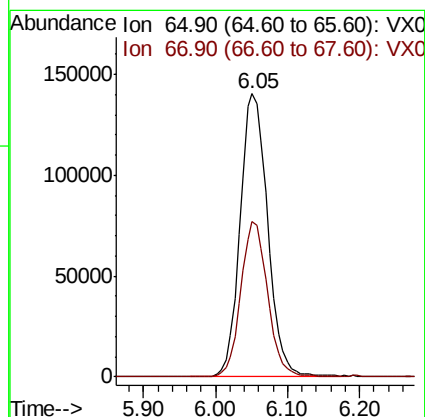
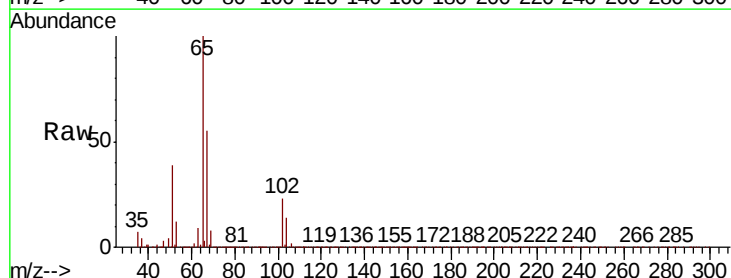
Acq: 23 Nov 2019 03:59

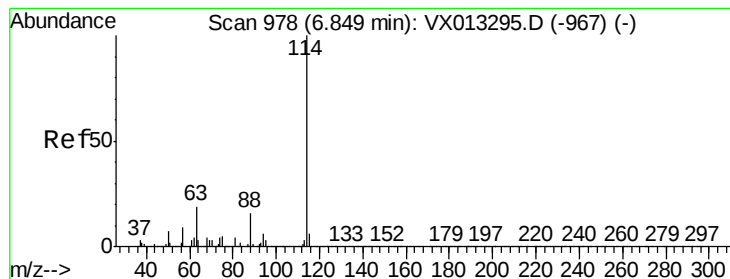
Tgt Ion: 65 Resp: 370795

Ion Ratio Lower Upper

65 100

67 53.5 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Instrument :

MSVOA_X

ClientSampleId :

MH-117N-20191121

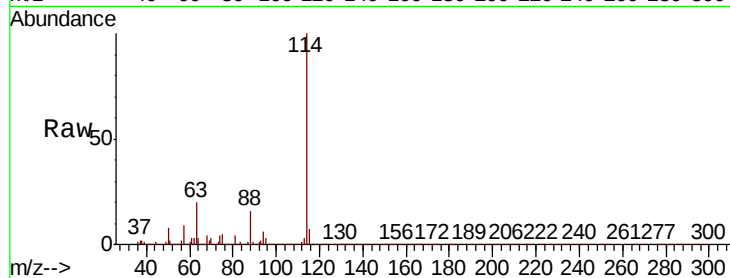
Tot Ion:114 Resp: 1010283

Ion Ratio Lower Upper

114 100

63 20.2 0.0 38.4

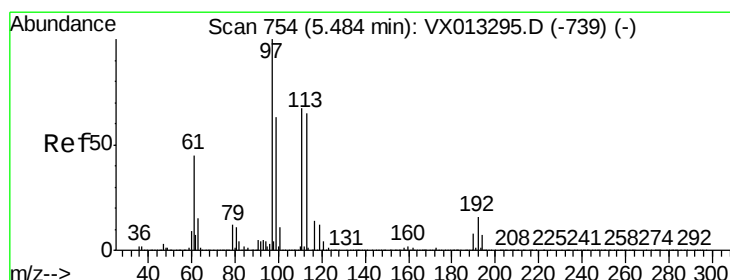
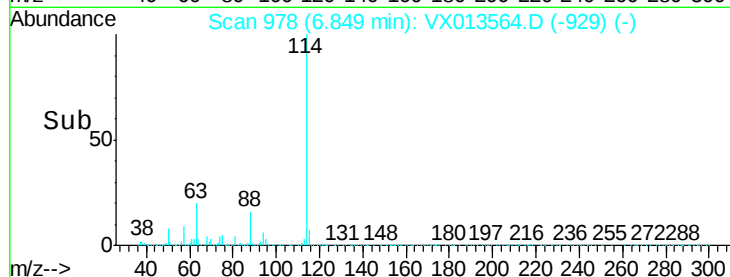
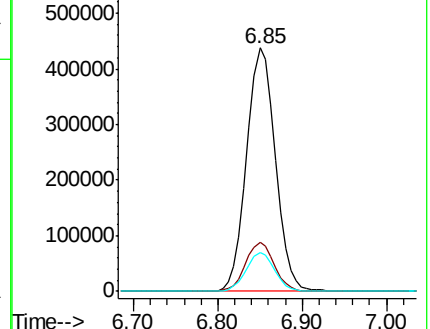
88 15.7 0.0 32.2



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



#35

Dibromofluoromethane

Concen: 48.369 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

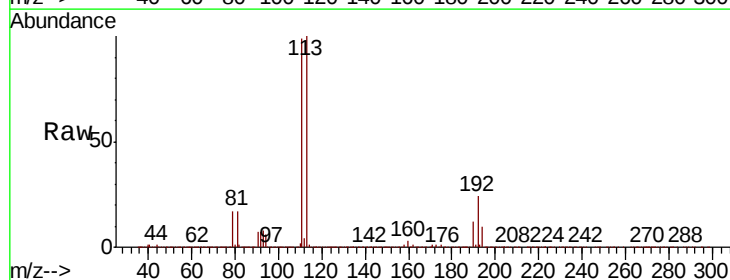
Tgt Ion:113 Resp: 306496

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

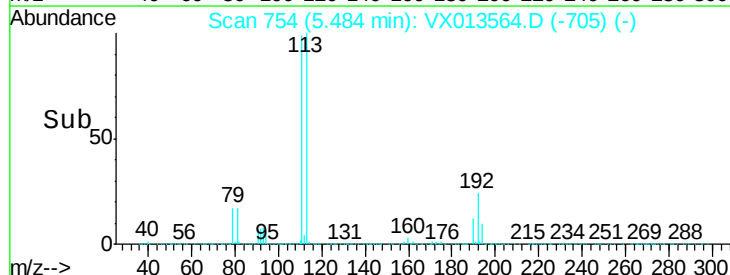
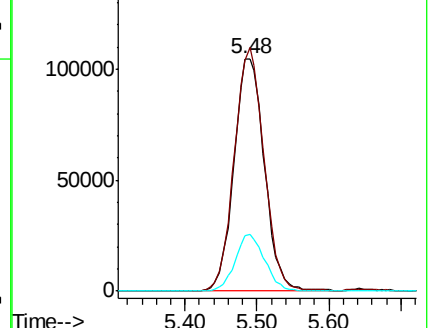
192 24.0 19.1 28.7

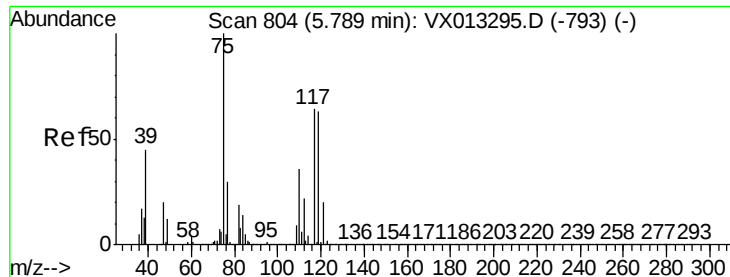


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

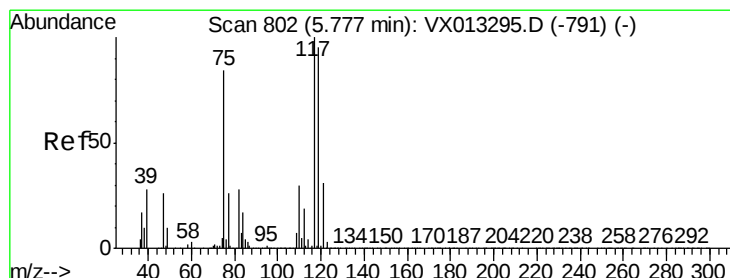
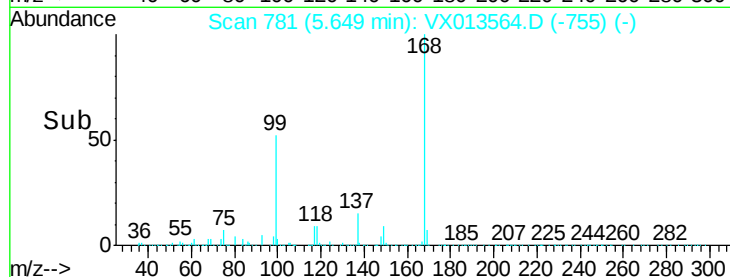
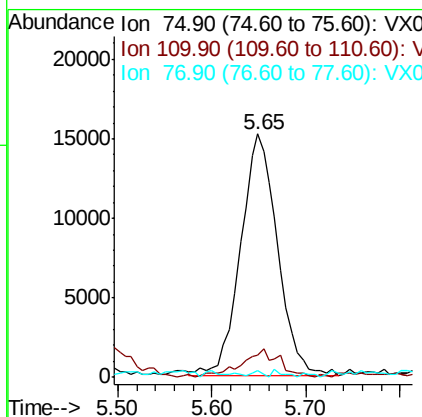
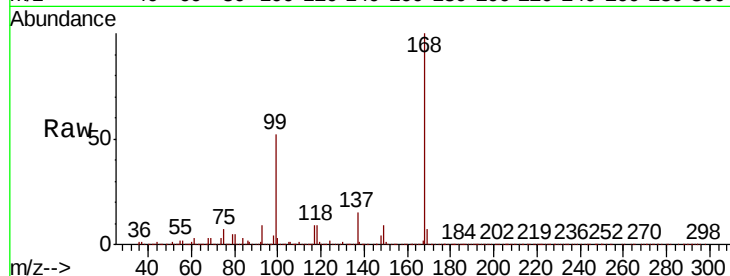




#36
 1,1-Dichloropropene
 Concen: 4.779 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013564.D
 Acq: 23 Nov 2019 03:59

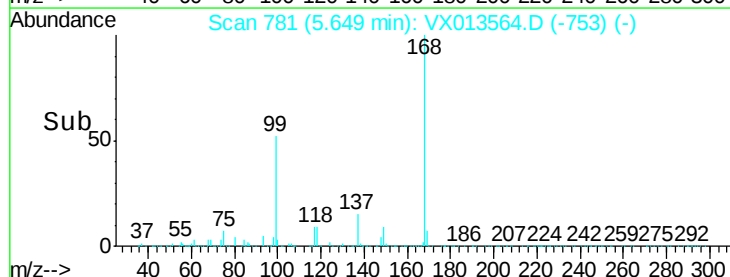
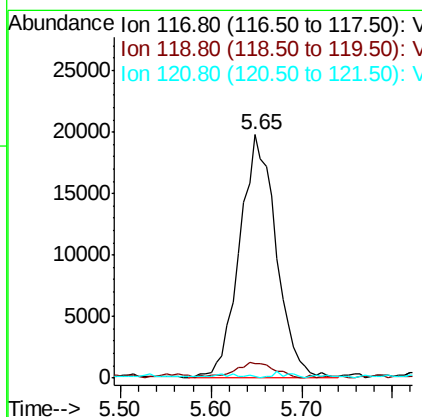
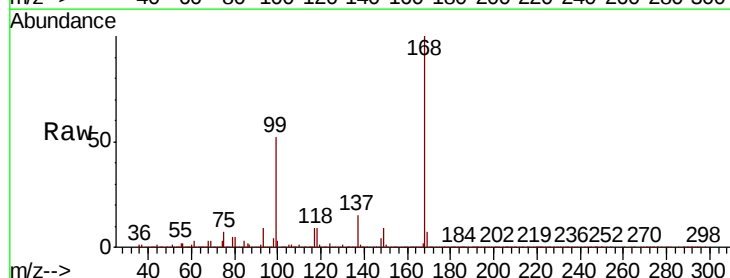
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-117N-20191121

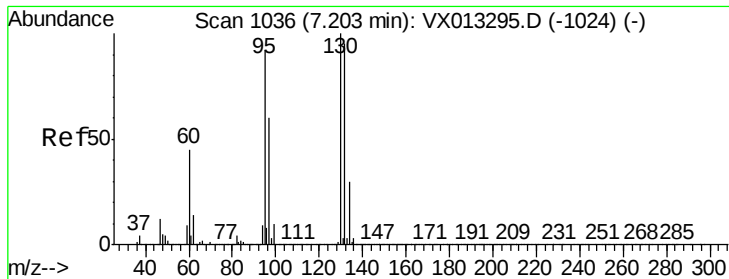
Tot Ion	Ratio	Lower	Upper
75	100		
110	12.2	18.1	54.1#
77	0.8	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.529 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013564.D
 Acq: 23 Nov 2019 03:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.1	114.1#
121	0.0	24.6	37.0#





#44

Trichloroethene

Concen: 0.737 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Instrument :

MSVOA_X

ClientSampleId :

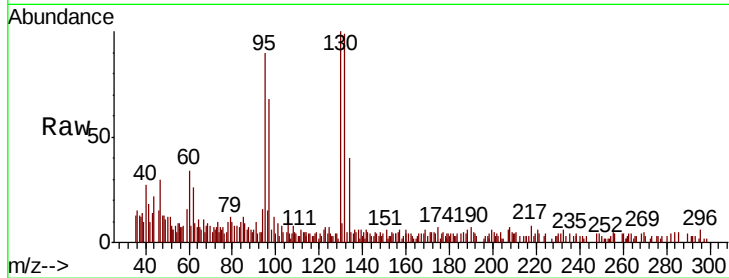
MH-117N-20191121

Tot Ion:130 Resp: 5477

Ion Ratio Lower Upper

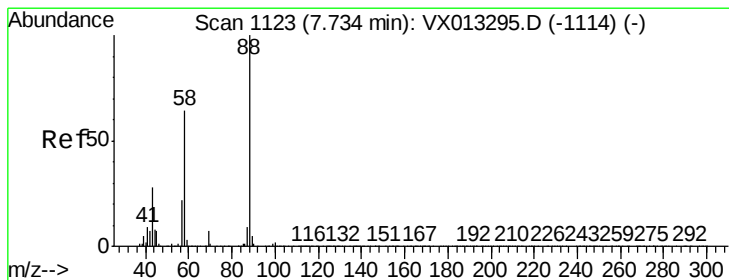
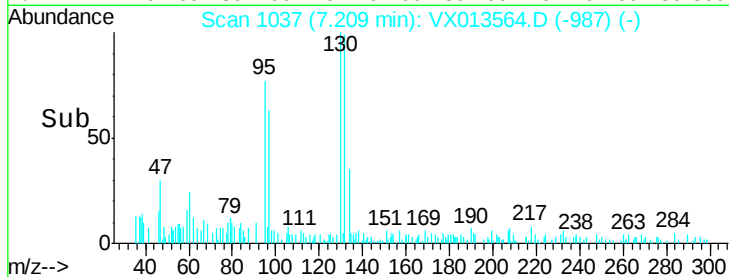
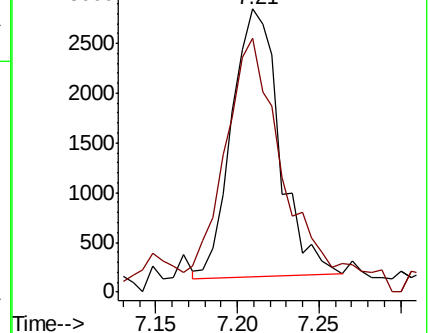
130 100

95 86.2 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 3.027 ug/l

RT: 7.78 min Scan# 1130

Delta R.T. 0.04 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

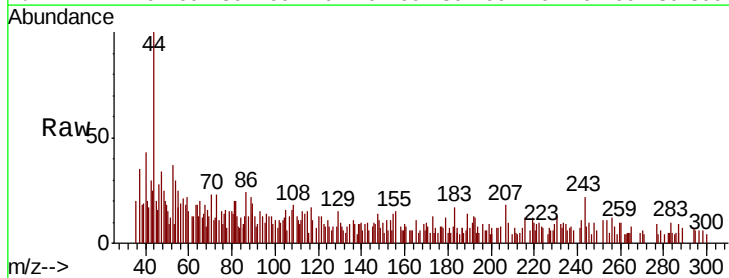
Tgt Ion: 88 Resp: 577

Ion Ratio Lower Upper

88 100

43 91.0 26.6 39.8#

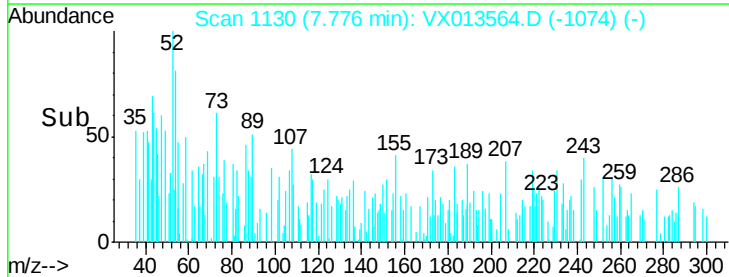
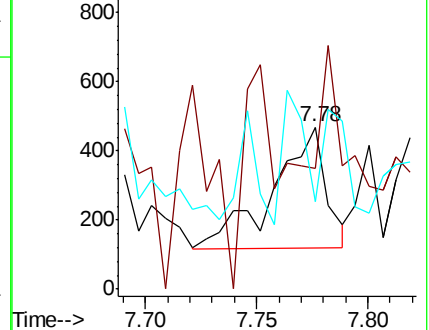
58 48.5 55.0 82.6#

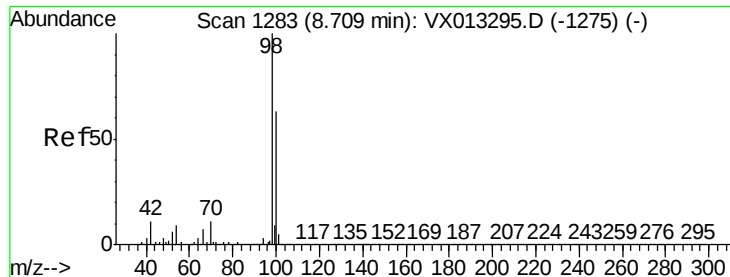


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.611 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Instrument :

MSVOA_X

ClientSampleId :

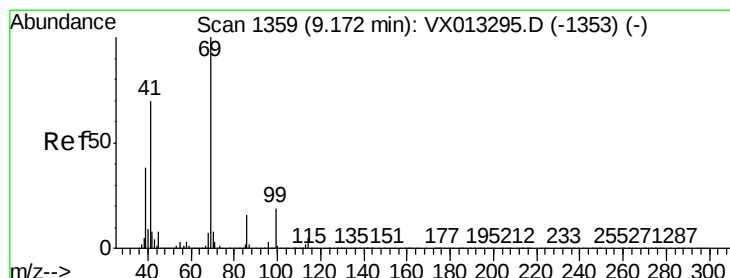
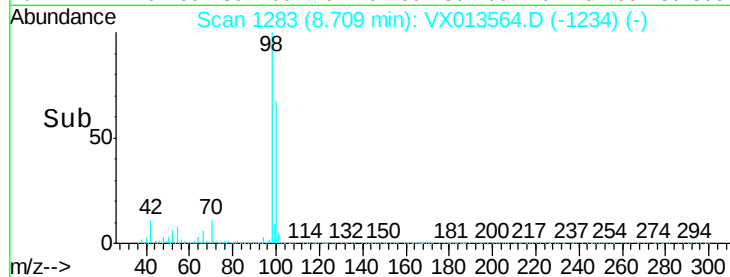
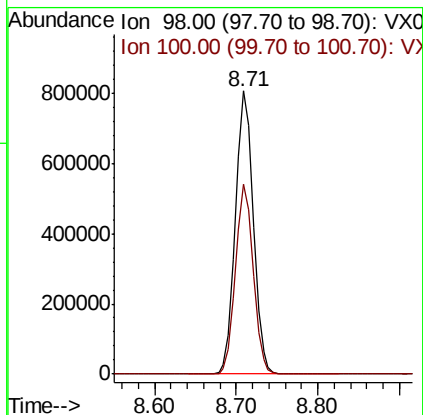
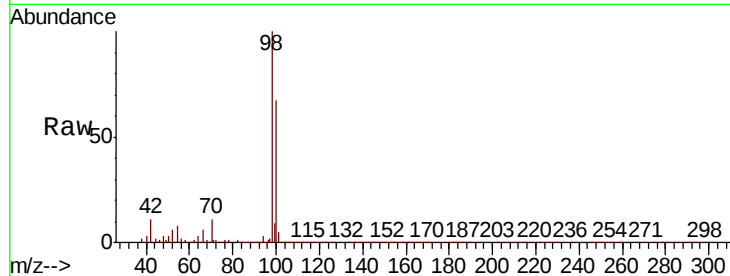
MH-117N-20191121

Tot Ion: 98 Resp: 1209005

Ion Ratio Lower Upper

98 100

100 66.2 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.577 ug/l

RT: 9.17 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

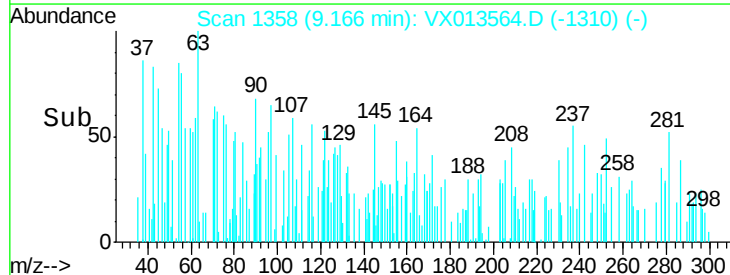
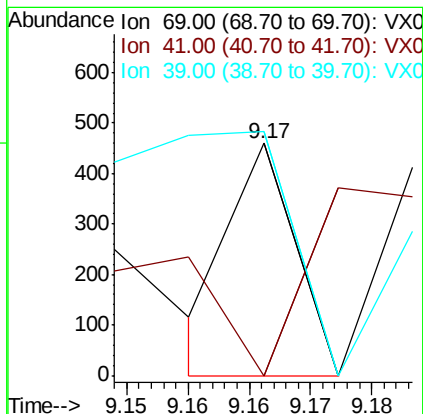
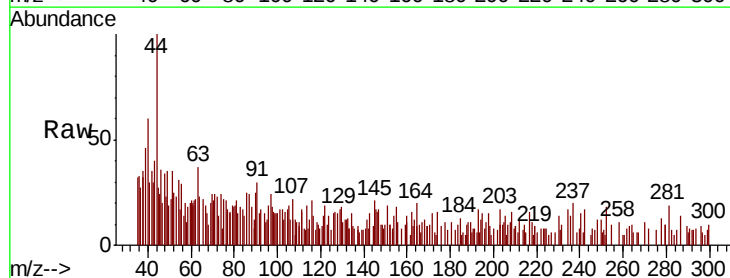
Tgt Ion: 69 Resp: 168

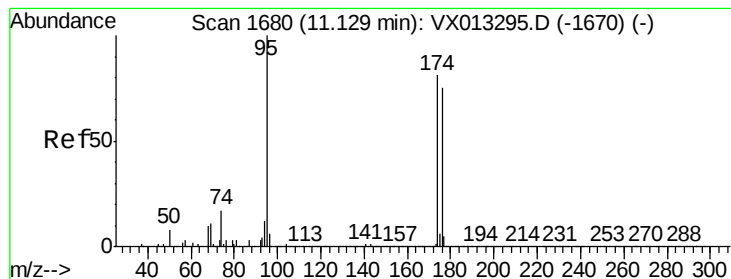
Ion Ratio Lower Upper

69 100

41 0.0 56.2 84.2#

39 208.3 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 46.263 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Instrument :

MSVOA_X

ClientSampleId :

MH-117N-20191121

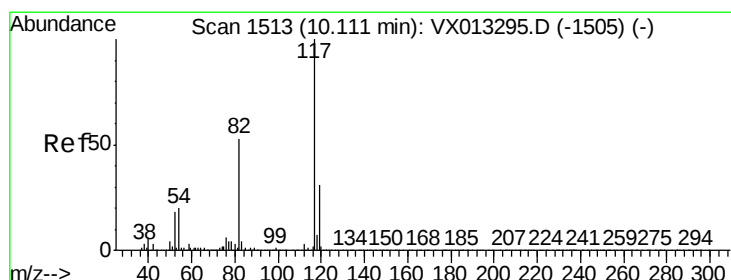
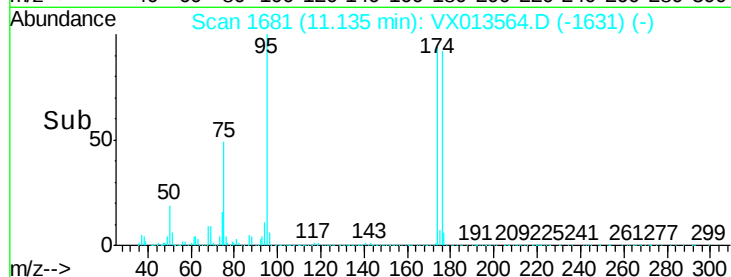
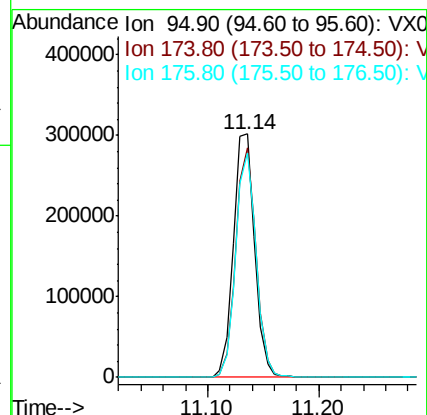
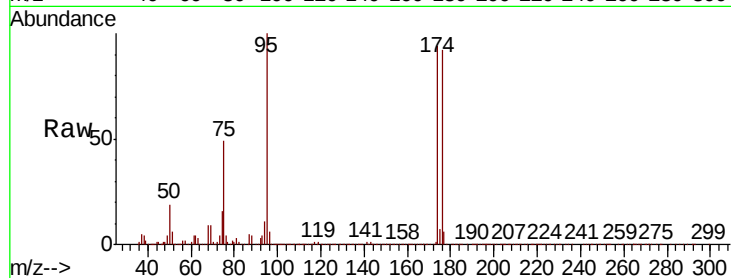
Tot Ion: 95 Resp: 398852

Ion Ratio Lower Upper

95 100

174 90.2 0.0 179.8

176 88.9 0.0 173.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

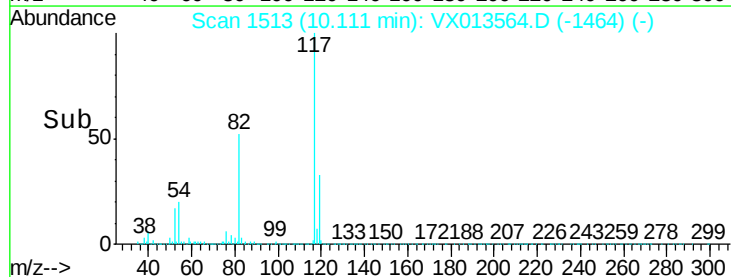
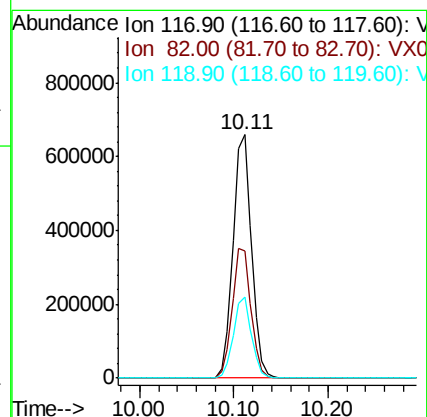
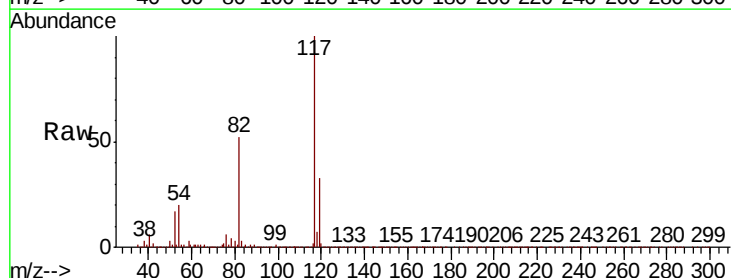
Tgt Ion: 117 Resp: 900020

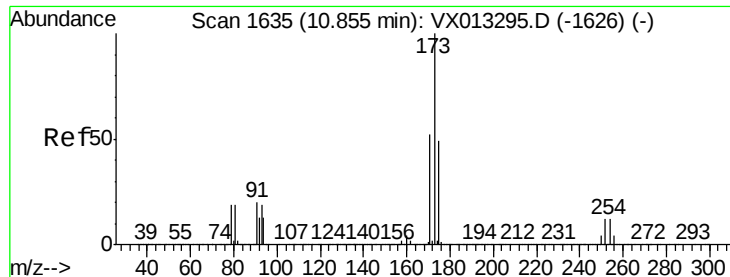
Ion Ratio Lower Upper

117 100

82 52.1 42.6 64.0

119 33.1 24.8 37.2

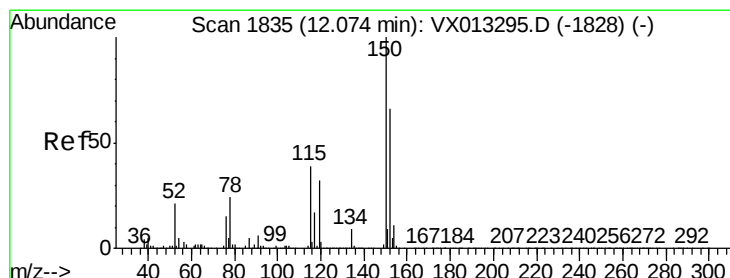
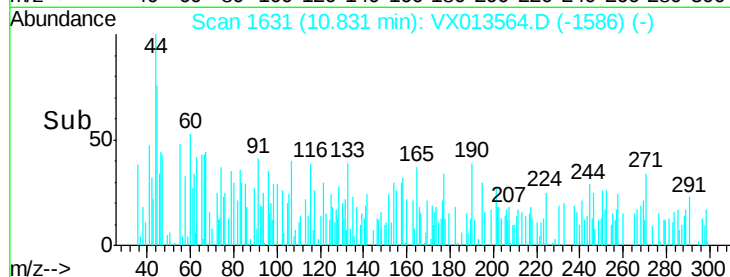
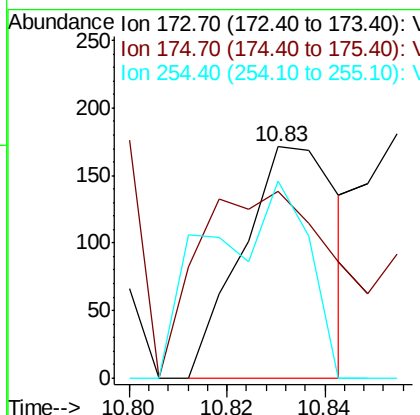
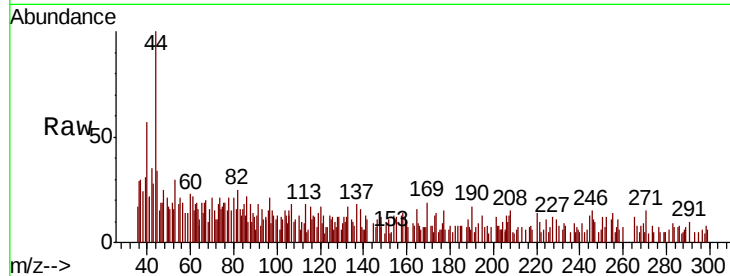




#71
Bromoform
Concen: 3.238 ug/l
RT: 10.83 min Scan# 1631
Delta R.T. -0.02 min
Lab File: VX013564.D
Acq: 23 Nov 2019 03:59

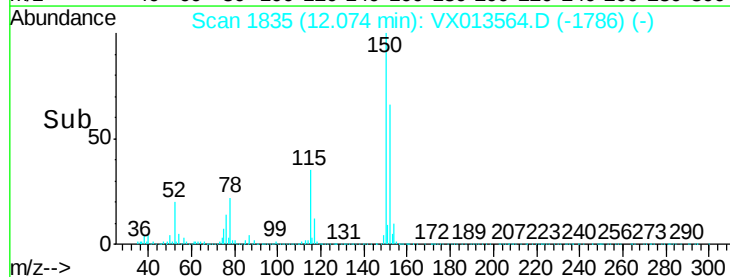
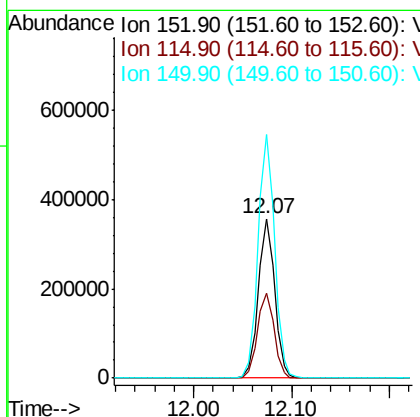
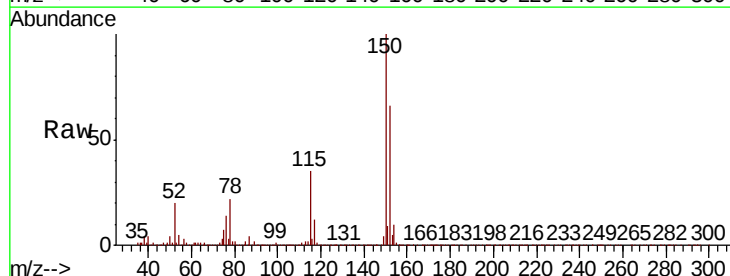
Instrument :
MSVOA_X
ClientSampleId :
MH-117N-20191121

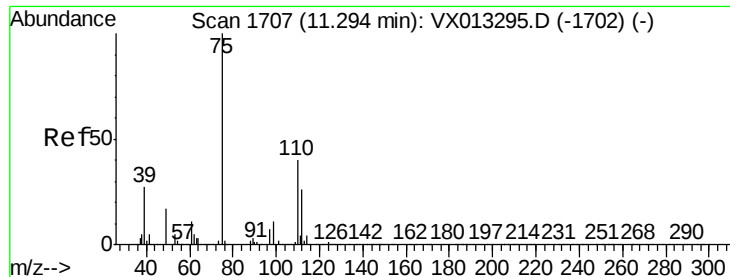
Tot Ion:173 Resp: 233
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 85.8 0.2 0.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013564.D
Acq: 23 Nov 2019 03:59

Tgt Ion:152 Resp: 417070
Ion Ratio Lower Upper
152 100
115 54.4 39.5 118.3
150 154.0 0.0 344.4





#76

1,2,3-Trichloropropane

Concen: 23.117 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

Instrument :

MSVOA_X

ClientSampleId :

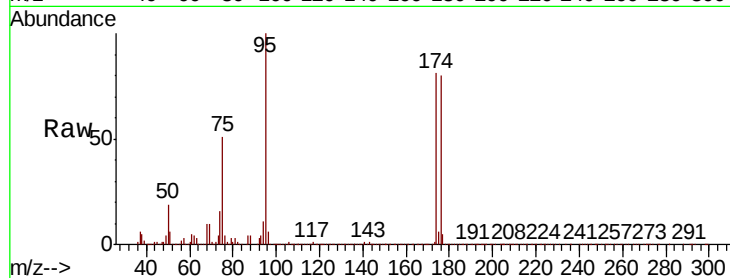
MH-117N-20191121

Tot Ion: 75 Resp: 195833

Ion Ratio Lower Upper

75 100

77 1.4 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

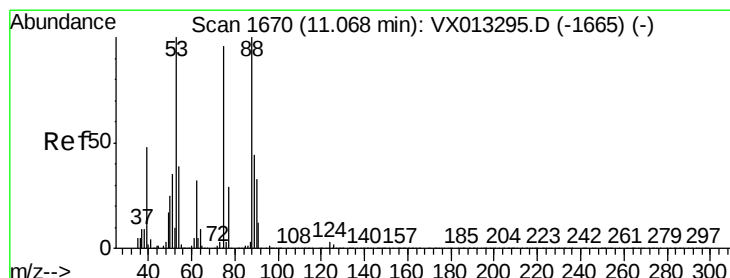
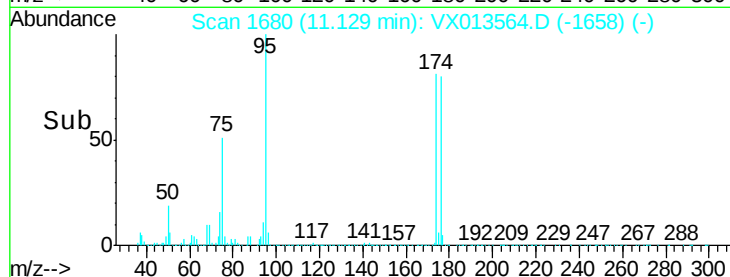
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 59.504 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013564.D

Acq: 23 Nov 2019 03:59

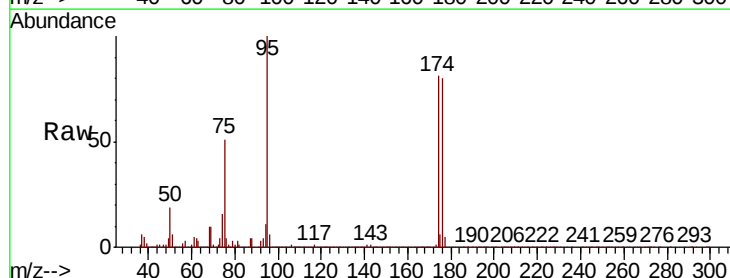
Tgt Ion: 75 Resp: 195833

Ion Ratio Lower Upper

75 100

53 0.6 81.0 121.6#

89 0.1 36.0 54.0#



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

200000

150000

100000

50000

0

Time-->

