

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092320\
 Data File : VX018549.D
 Acq On : 23 Sep 2020 21:00
 Operator : JC/SP
 Sample : L4083-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D1-20200917

Quant Time: Sep 24 00:38:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	458600	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.83	114	736316	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	707542	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	354821	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	319642	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
35) Dibromofluoromethane	5.47	113	253398	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
50) Toluene-d8	8.70	98	900509	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
62) 4-Bromofluorobenzene	11.12	95	340302	46.26	ug/l	0.00
Spiked Amount			Recovery	=	92.52%	

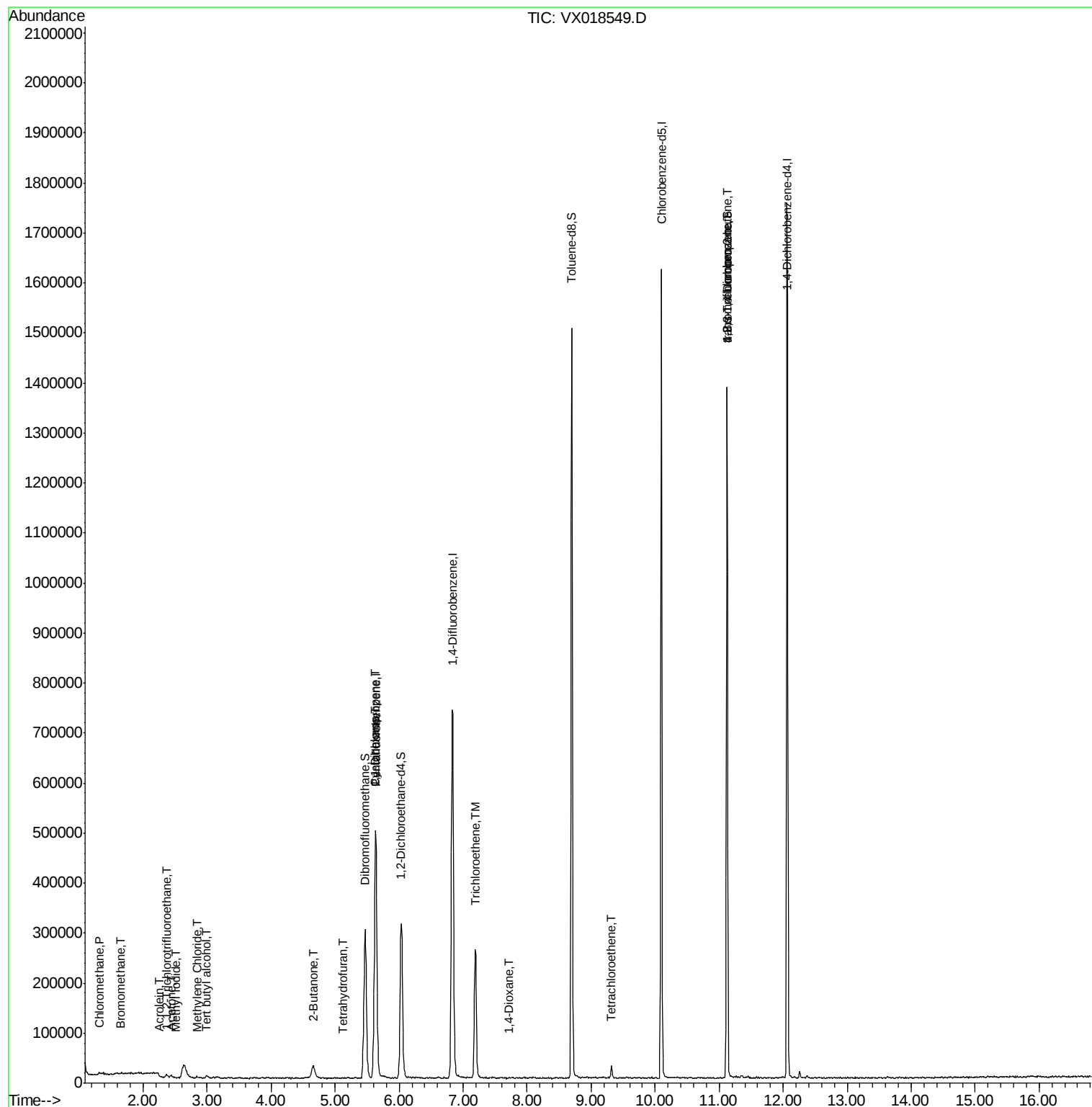
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	2210	0.434	ug/l #	86
5) Bromomethane	1.64	94	663	0.200	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.37	101	2144	0.487	ug/l #	86
10) Methyl Iodide	2.51	142	448	4.988	ug/l #	39
11) Tert butyl alcohol	2.98	59	2001	1.773	ug/l	97
13) Acrolein	2.26	56	268	0.375	ug/l #	1
16) Acetone	2.43	43	5978	2.409	ug/l	98
20) Methylene Chloride	2.83	84	2258	0.412	ug/l #	82
25) 2-Butanone	4.65	43	2417	0.626	ug/l #	63
29) Tetrahydrofuran	5.12	42	666	0.273	ug/l #	83
31) Cyclohexane	5.63	56	10503	1.338	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	36374	5.090	ug/l #	51
44) Trichloroethene	7.19	130	99088	16.712	ug/l	99
49) 1,4-Dioxane	7.71	88	176	1.728	ug/l #	1
64) Tetrachloroethene	9.32	164	4167	0.748	ug/l #	64
76) 1,2,3-Trichloropropane	11.12	75	172981	23.199	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	172981	59.448	ug/l #	13

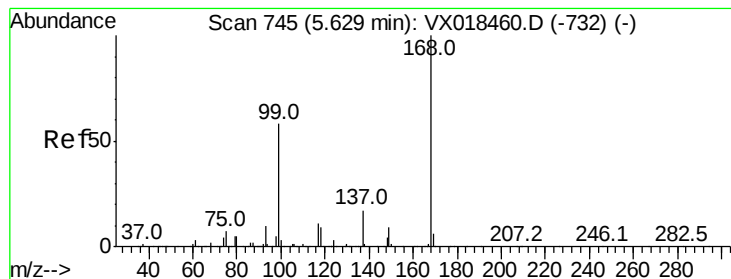
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 17 12:17:36 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 747

Delta R.T. 0.01 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

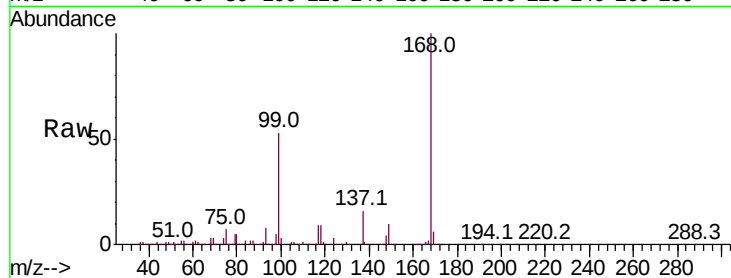
RE109D1-20200917

Tot Ion:168 Resp: 458600

Ion Ratio Lower Upper

168 100

99 53.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

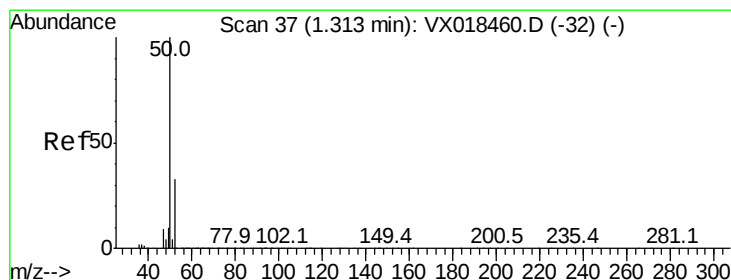
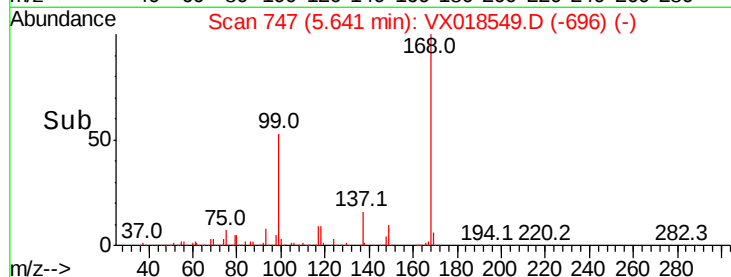
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.434 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018549.D

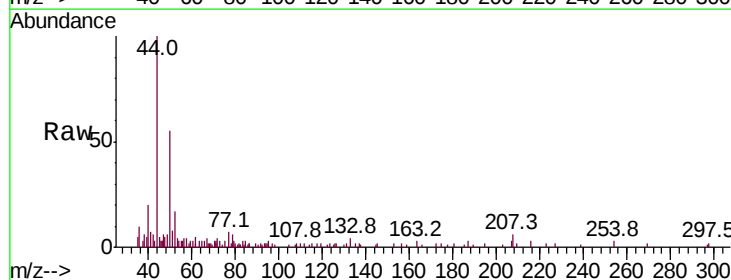
Acq: 23 Sep 2020 21:00

Tgt Ion: 50 Resp: 2210

Ion Ratio Lower Upper

50 100

52 25.6 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

2500

2000

1500

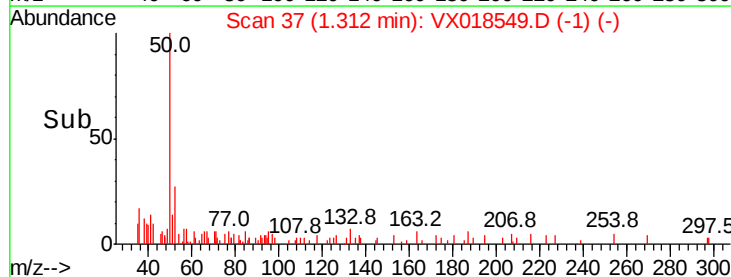
1000

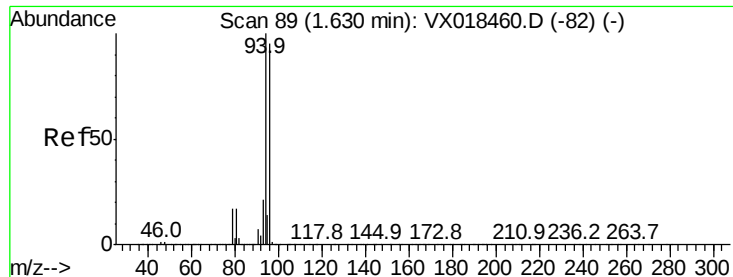
500

0

Time-->

1.28 1.30 1.32 1.34





#5

Bromomethane

Concen: 0.200 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

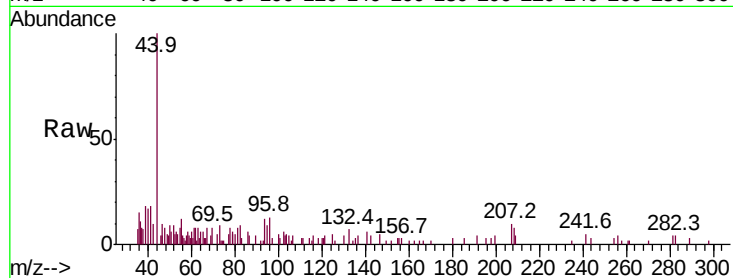
RE109D1-20200917

Tot Ion: 94 Resp: 663

Ion Ratio Lower Upper

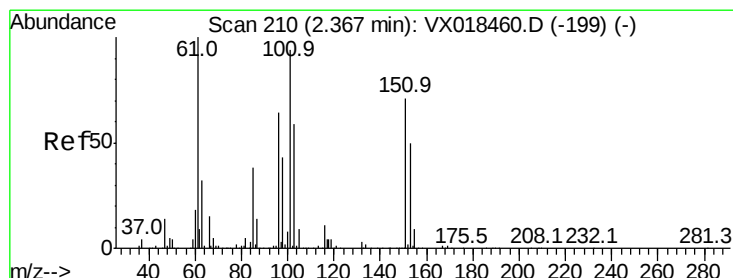
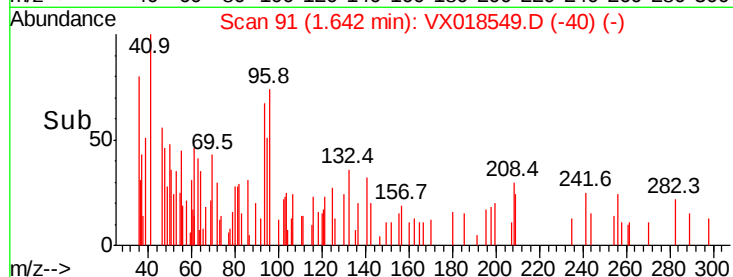
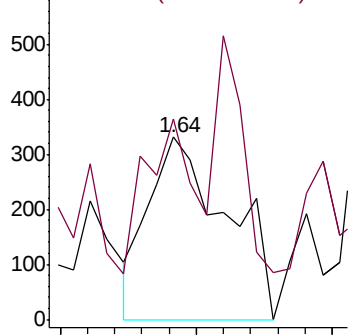
94 100

96 85.2 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.487 ug/l

RT: 2.37 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

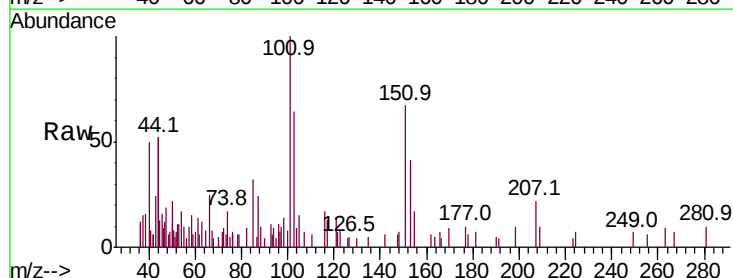
Tgt Ion: 101 Resp: 2144

Ion Ratio Lower Upper

101 100

85 34.3 34.7 52.1#

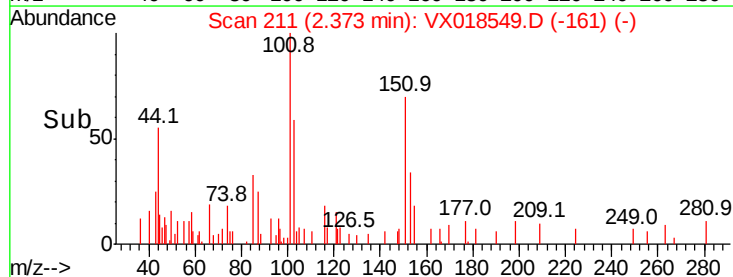
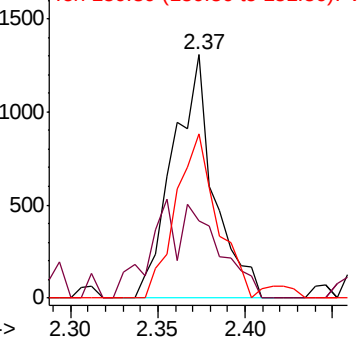
151 68.3 64.9 97.3

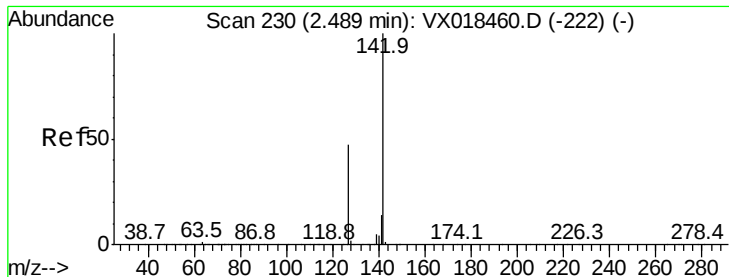


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

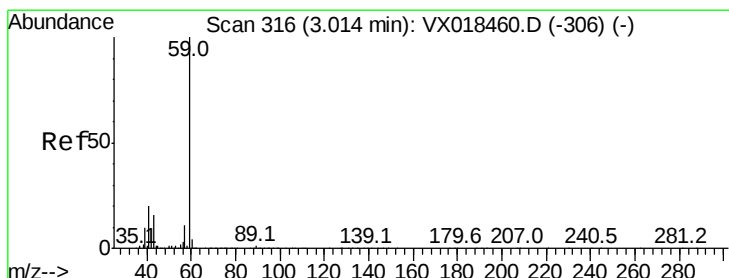
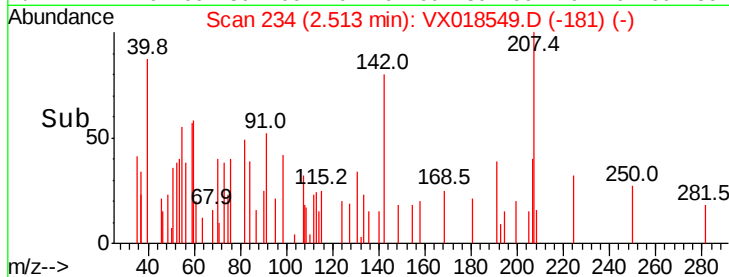
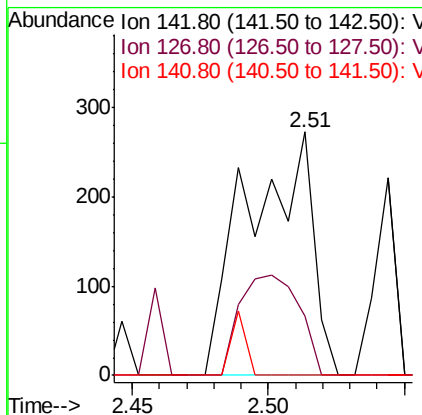
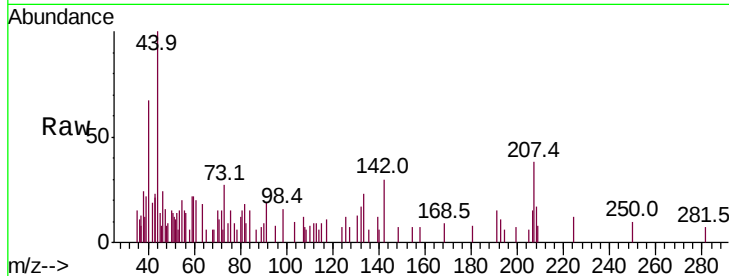




#10
Methyl Iodide
Concen: 4.988 ug/l
RT: 2.51 min Scan# 234
Delta R.T. 0.02 min
Lab File: VX018549.D
Acq: 23 Sep 2020 21:00

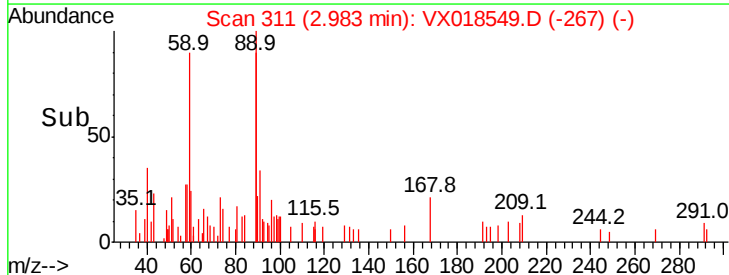
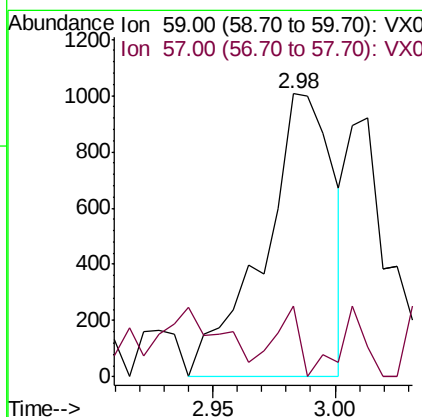
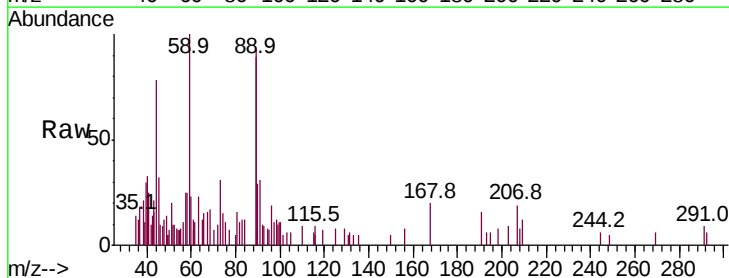
Instrument :
MSVOA_X
ClientSampleId :
RE109D1-20200917

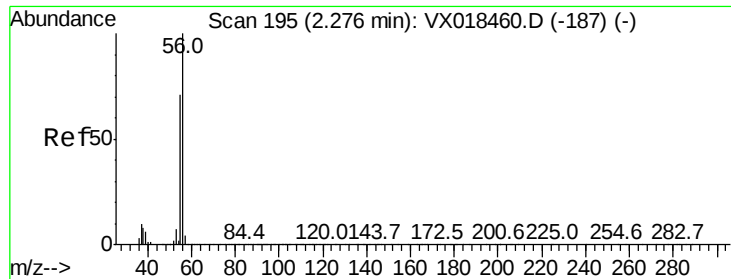
Tot Ion:142 Resp: 448
Ion Ratio Lower Upper
142 100
127 0.0 36.0 54.0#
141 0.0 11.9 17.9#



#11
Tert butyl alcohol
Concen: 1.773 ug/l
RT: 2.98 min Scan# 311
Delta R.T. -0.03 min
Lab File: VX018549.D
Acq: 23 Sep 2020 21:00

Tgt Ion: 59 Resp: 2001
Ion Ratio Lower Upper
59 100
57 9.1 8.2 12.4





#13

Acrolein

Concen: 0.375 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.02 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

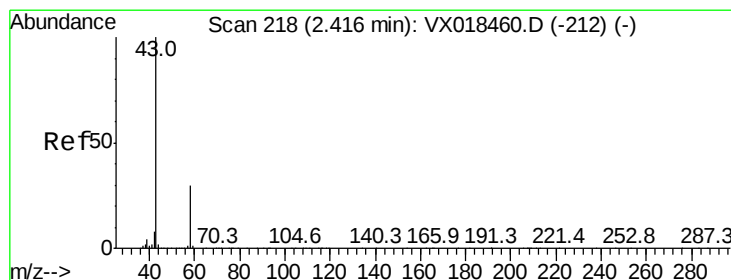
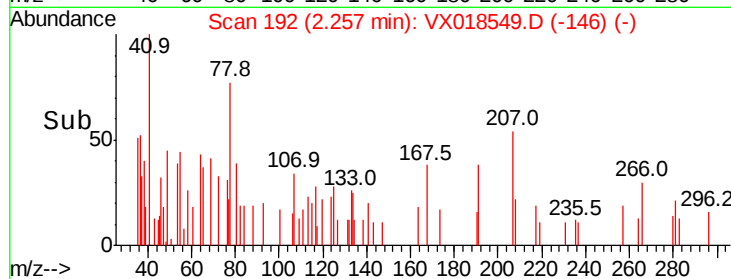
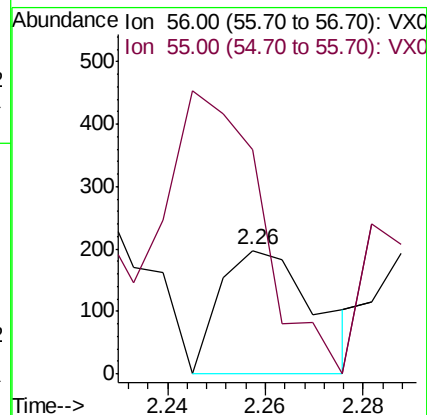
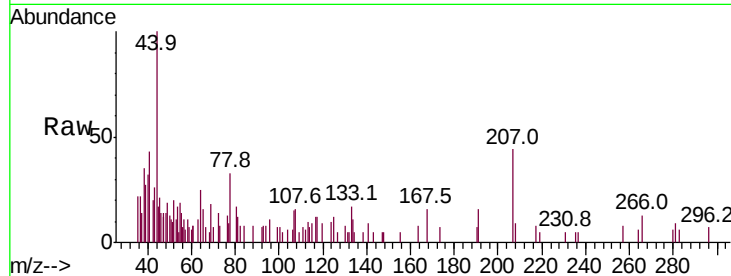
RE109D1-20200917

Tot Ion: 56 Resp: 268

Ion Ratio Lower Upper

56 100

55 223.9 58.2 87.4#



#16

Acetone

Concen: 2.409 ug/l

RT: 2.43 min Scan# 221

Delta R.T. 0.02 min

Lab File: VX018549.D

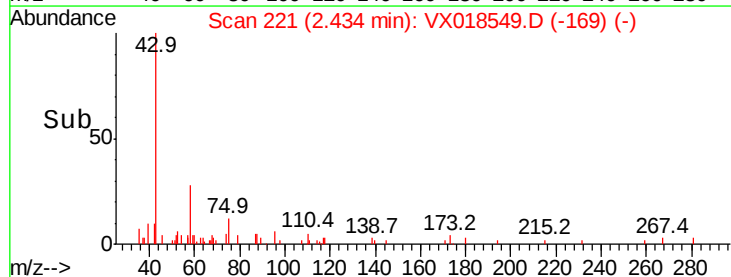
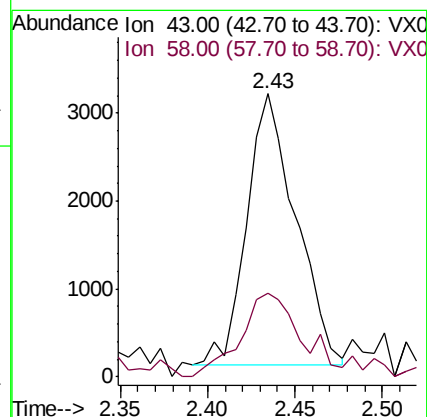
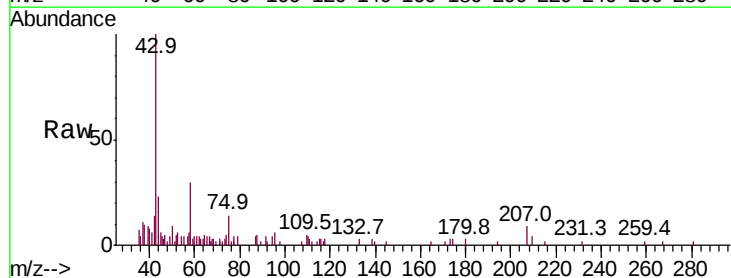
Acq: 23 Sep 2020 21:00

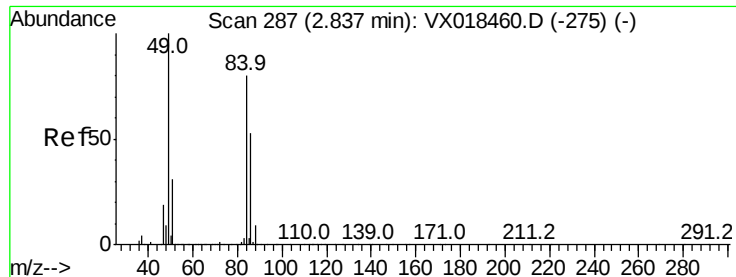
Tgt Ion: 43 Resp: 5978

Ion Ratio Lower Upper

43 100

58 31.0 24.0 36.0

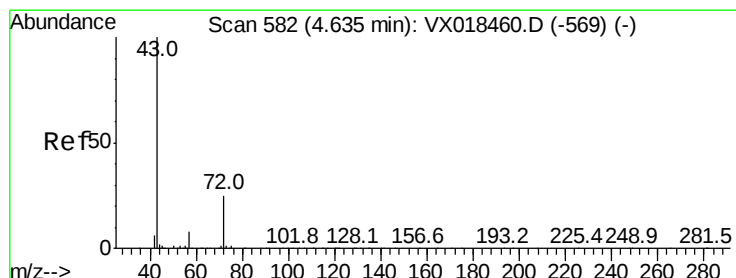
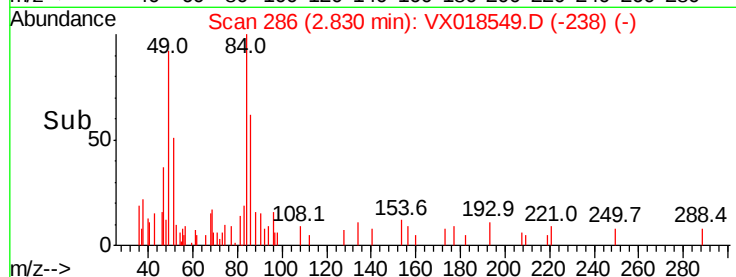
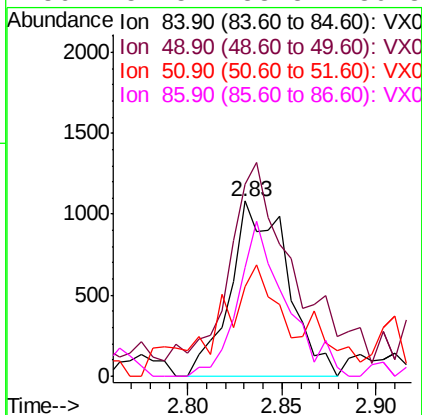
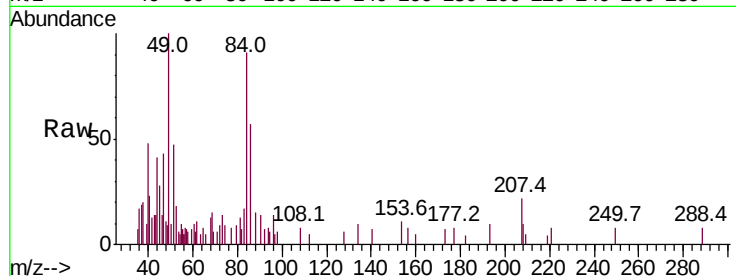




#20
Methvlene Chloride
Concen: 0.412 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX018549.D
Acq: 23 Sep 2020 21:00

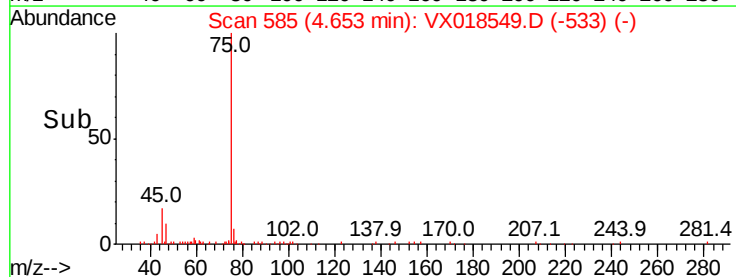
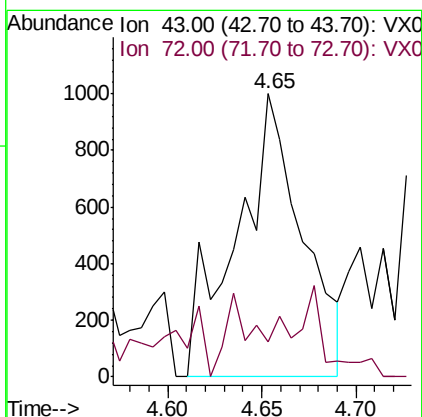
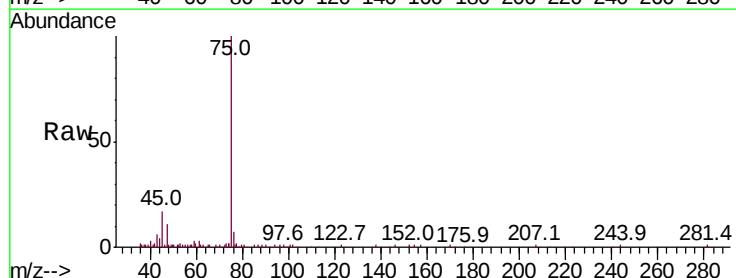
Instrument :
MSVOA_X
ClientSampleId :
RE109D1-20200917

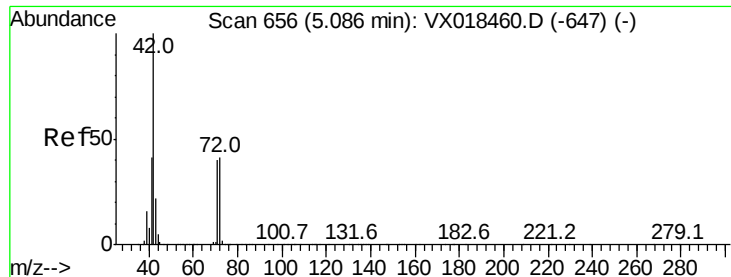
Tot Ion:	84	Resp:	2258
Ion	Ratio	Lower	Upper
84	100		
49	96.3	100.6	151.0#
51	36.9	30.9	46.3
86	57.5	53.5	80.3



#25
2-Butanone
Concen: 0.626 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX018549.D
Acq: 23 Sep 2020 21:00

Tgt Ion:	43	Resp:	2417
Ion	Ratio	Lower	Upper
43	100		
72	6.4	20.2	30.4#





#29

Tetrahydrofuran

Concen: 0.273 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.03 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

RE109D1-20200917

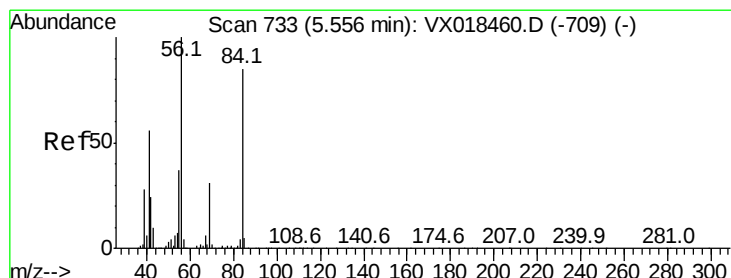
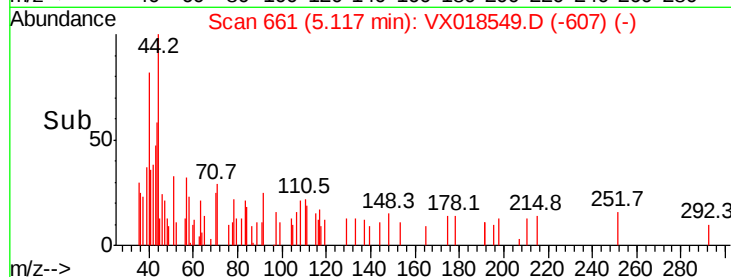
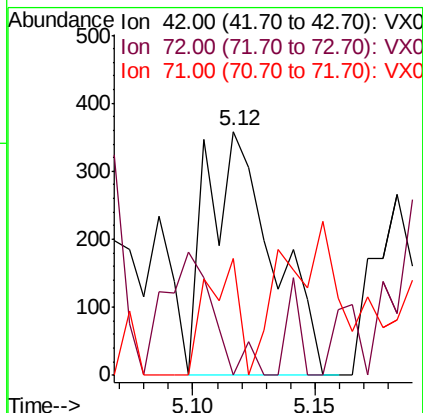
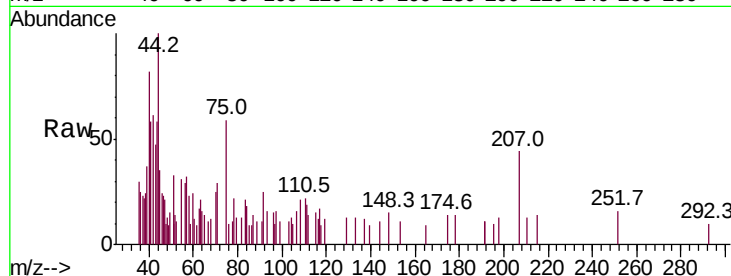
Tot Ion: 42 Resp: 666

Ion Ratio Lower Upper

42 100

72 37.8 34.3 51.5

71 23.3 32.1 48.1#



#31

Cyclohexane

Concen: 1.338 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.08 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

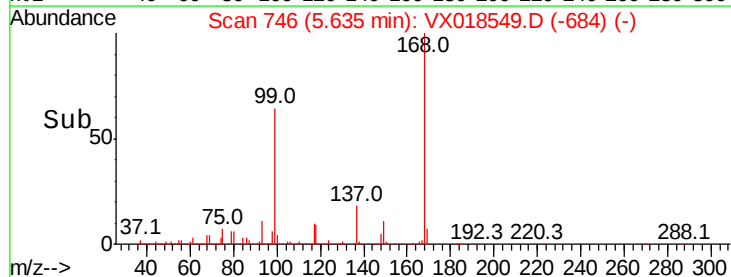
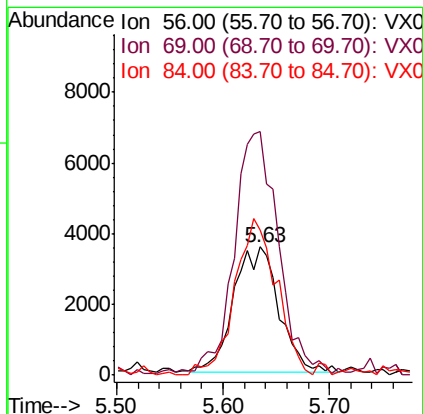
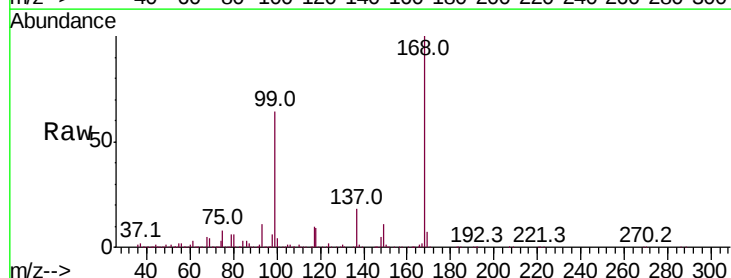
Tgt Ion: 56 Resp: 10503

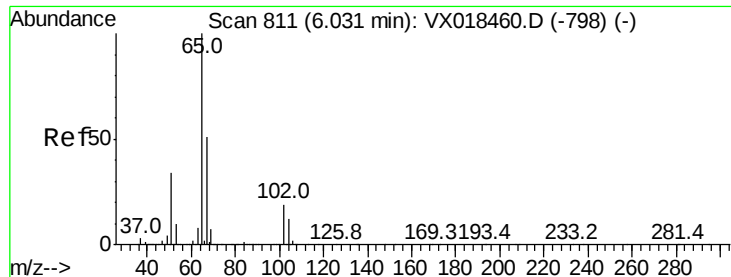
Ion Ratio Lower Upper

56 100

69 192.8 24.8 37.2#

84 116.2 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 49.270 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

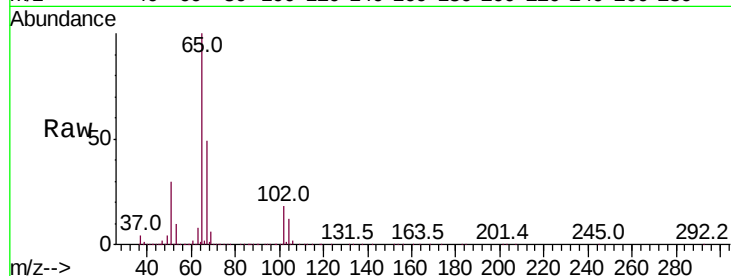
RE109D1-20200917

Tot Ion: 65 Resp: 319642

Ion Ratio Lower Upper

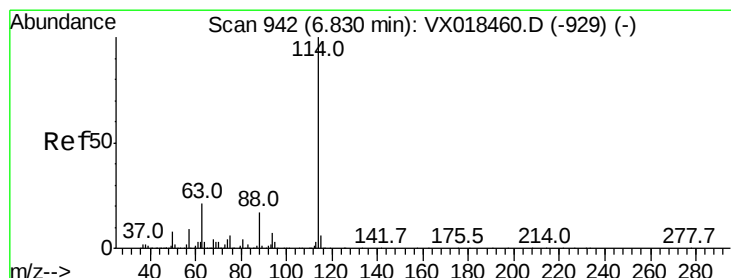
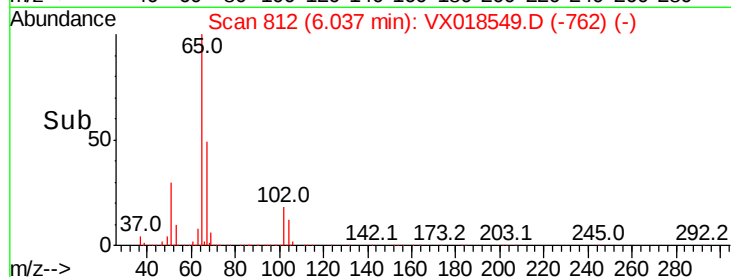
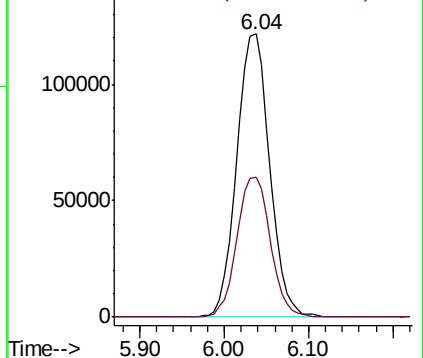
65 100

67 50.7 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

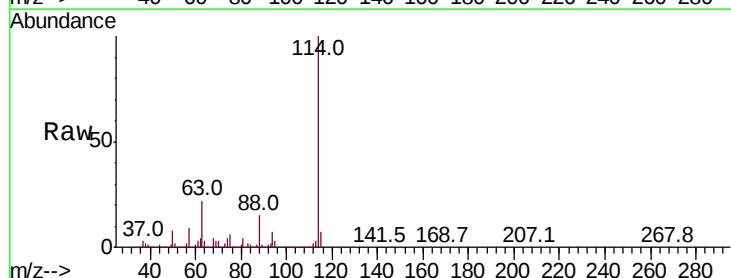
Tgt Ion: 114 Resp: 736316

Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.8

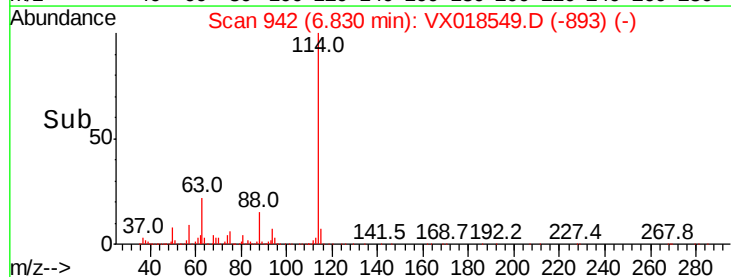
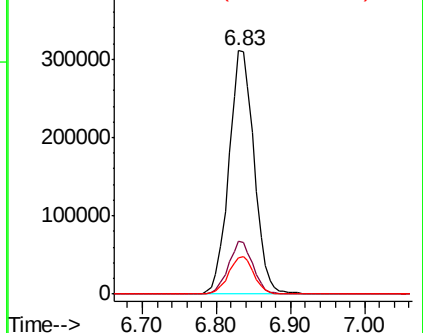
88 14.9 0.0 33.6

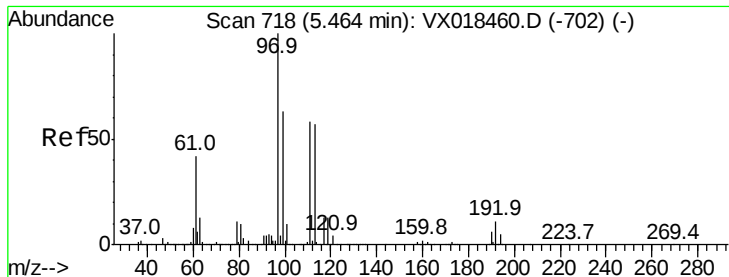


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.781 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

RE109D1-20200917

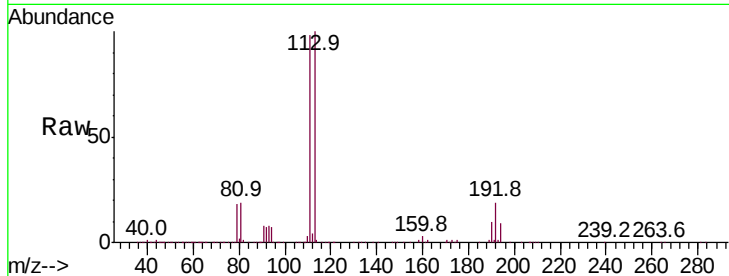
Tot Ion:113 Resp: 253398

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.2

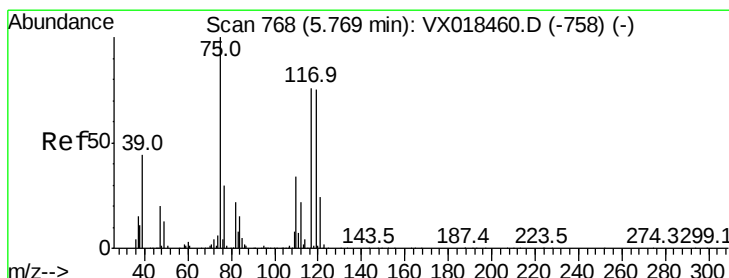
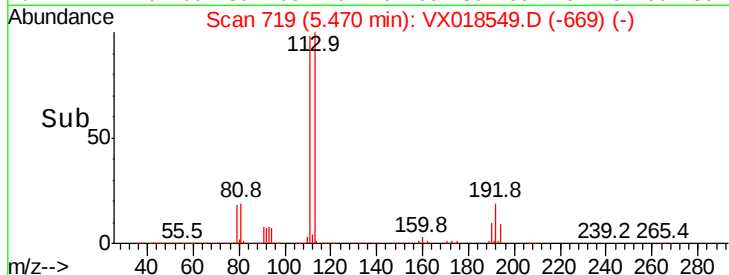
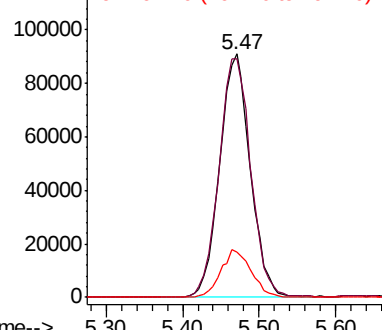
192 19.4 16.6 24.8



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: 5.090 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

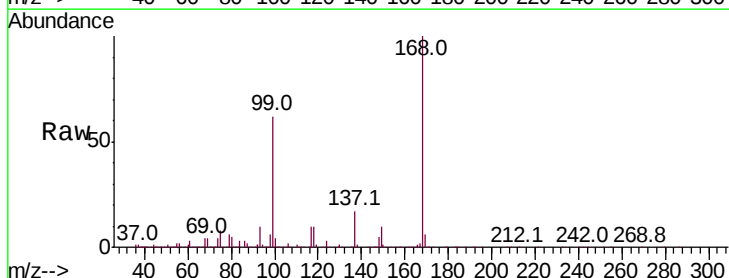
Tgt Ion: 75 Resp: 36374

Ion Ratio Lower Upper

75 100

110 10.4 17.6 52.8#

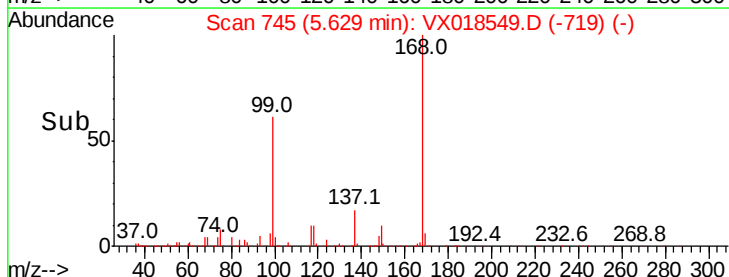
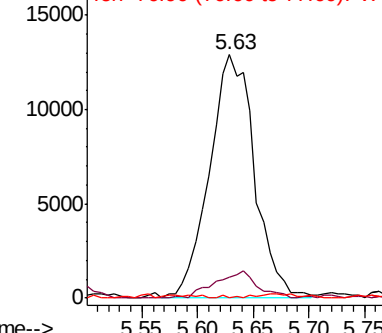
77 0.1 25.0 37.6#

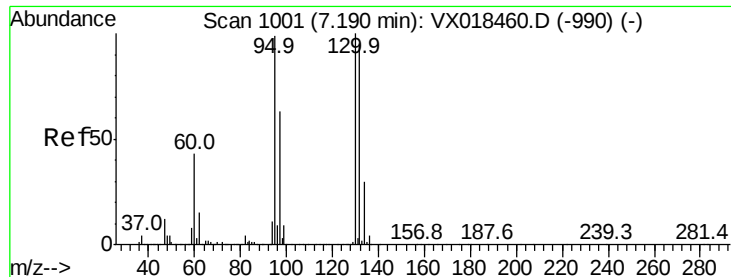


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#44

Trichloroethene

Concen: 16.712 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

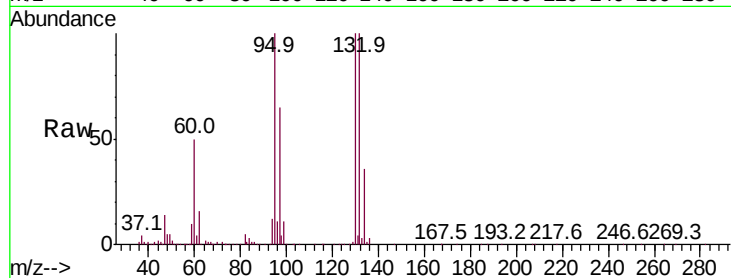
RE109D1-20200917

Tot Ion:130 Resp: 99088

Ion Ratio Lower Upper

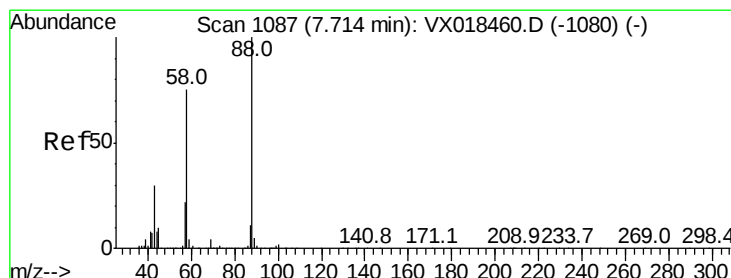
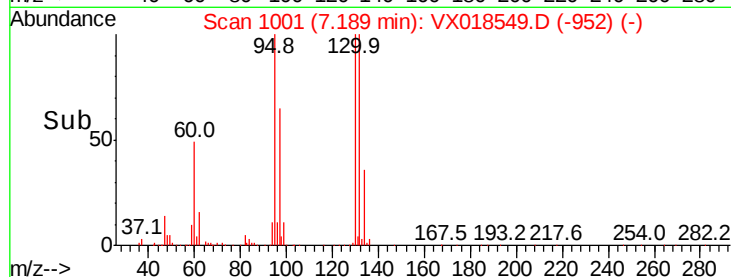
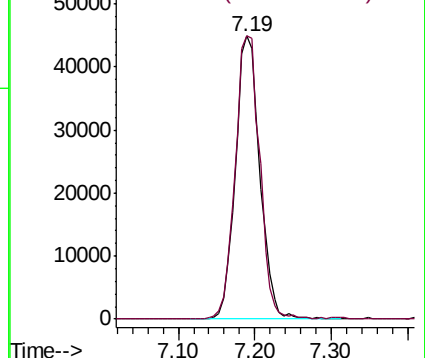
130 100

95 100.0 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 1.728 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

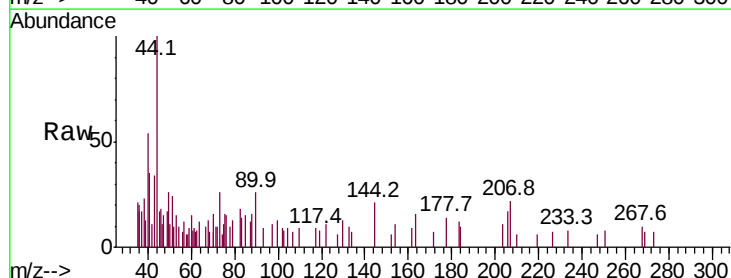
Tgt Ion: 88 Resp: 176

Ion Ratio Lower Upper

88 100

43 346.0 29.9 44.9#

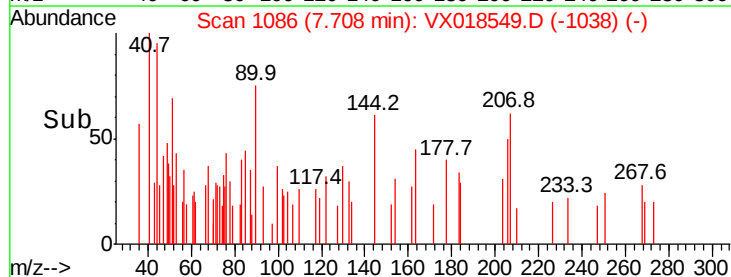
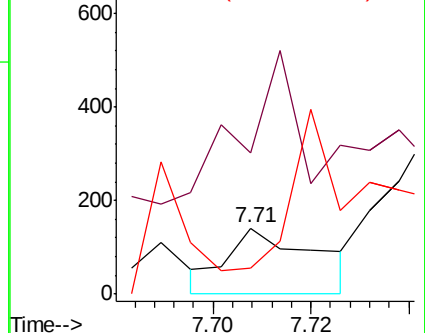
58 186.4 59.0 88.6#

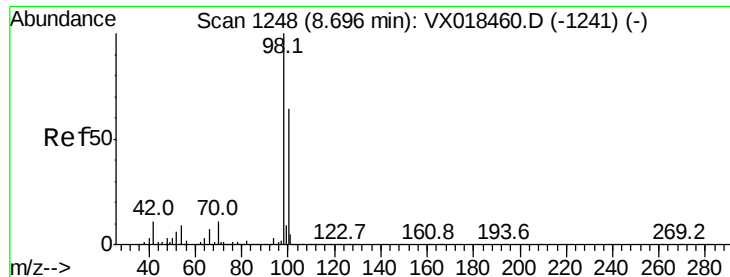


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.690 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

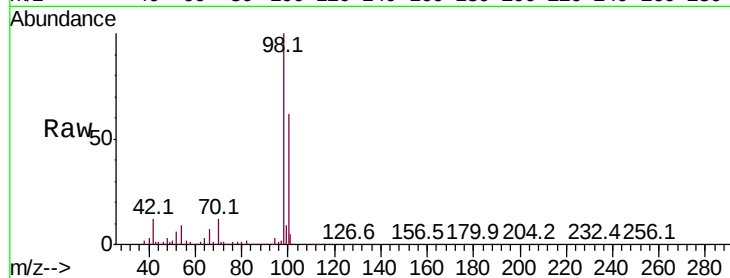
RE109D1-20200917

Tot Ion: 98 Resp: 900509

Ion Ratio Lower Upper

98 100

100 63.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

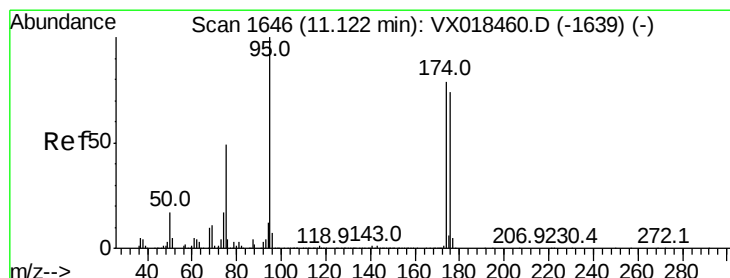
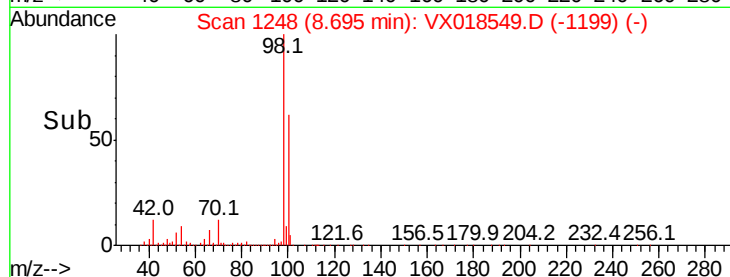
600000

400000

200000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.257 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

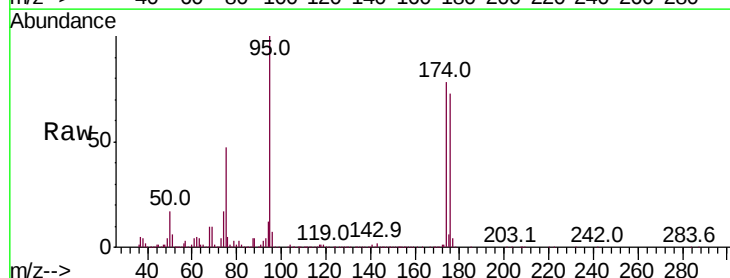
Tgt Ion: 95 Resp: 340302

Ion Ratio Lower Upper

95 100

174 79.8 0.0 161.4

176 76.1 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

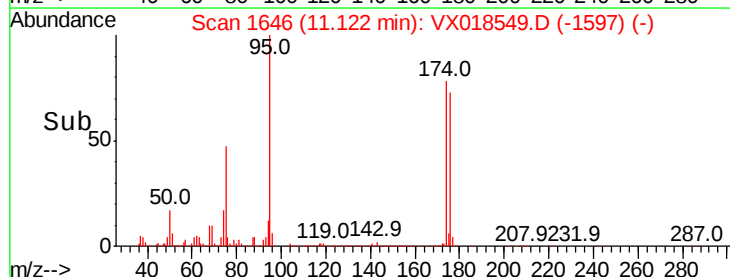
300000

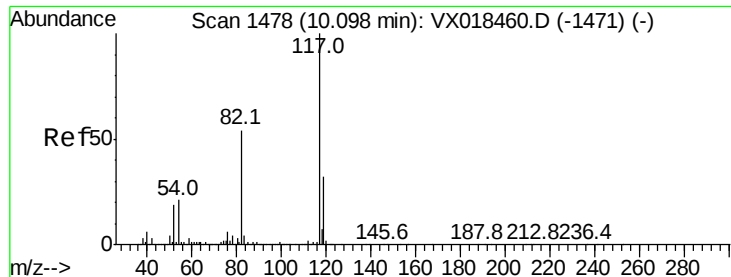
200000

100000

0

Time-->

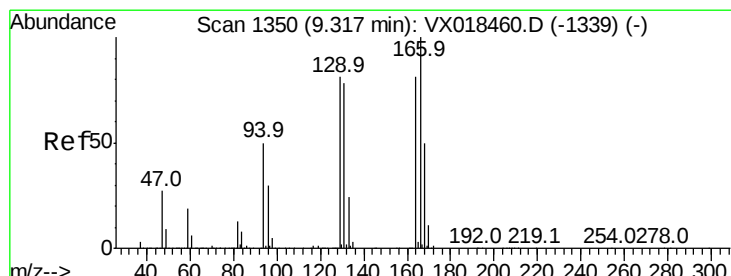
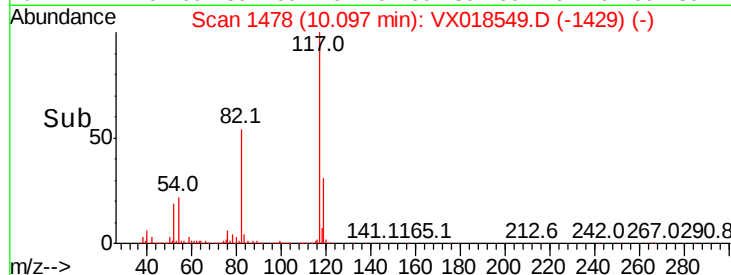
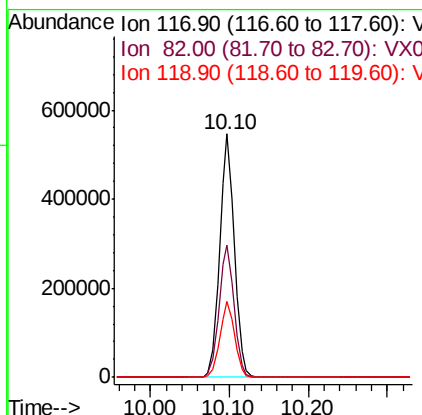
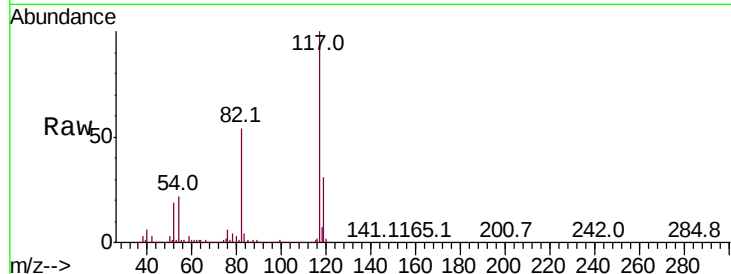




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018549.D
Acq: 23 Sep 2020 21:00

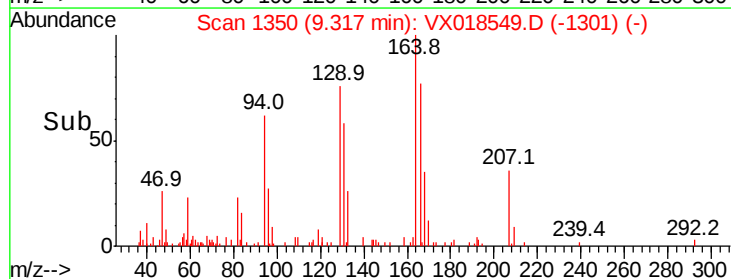
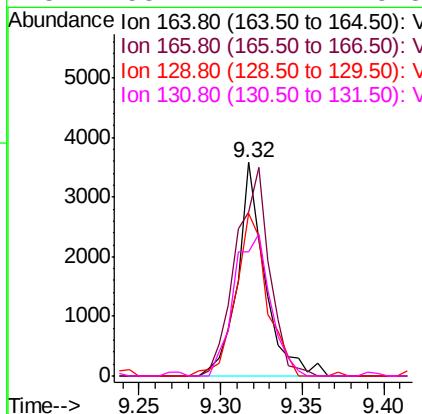
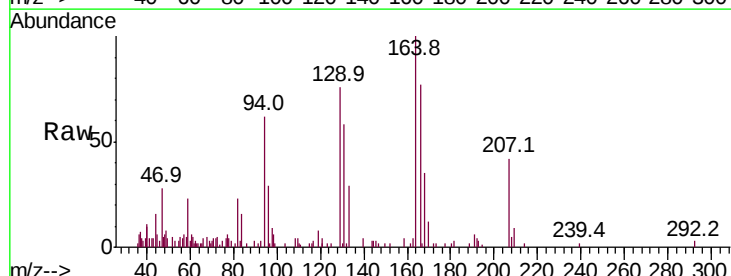
Instrument :
MSVOA_X
ClientSampleId :
RE109D1-20200917

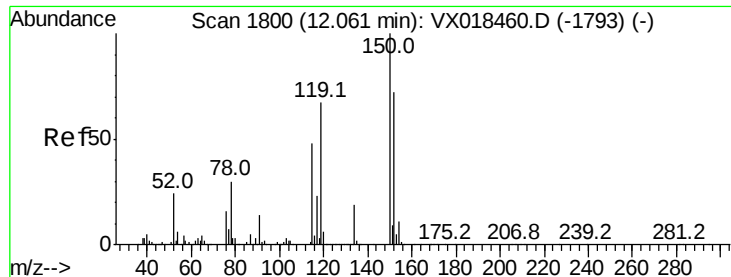
Tot Ion:117 Resp: 707542
Ion Ratio Lower Upper
117 100
82 54.3 43.3 64.9
119 30.9 25.9 38.9



#64
Tetrachloroethene
Concen: 0.748 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX018549.D
Acq: 23 Sep 2020 21:00

Tgt Ion:164 Resp: 4167
Ion Ratio Lower Upper
164 100
166 76.7 99.3 148.9#
129 76.1 80.7 121.1#
131 58.2 77.2 115.8#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

RE109D1-20200917

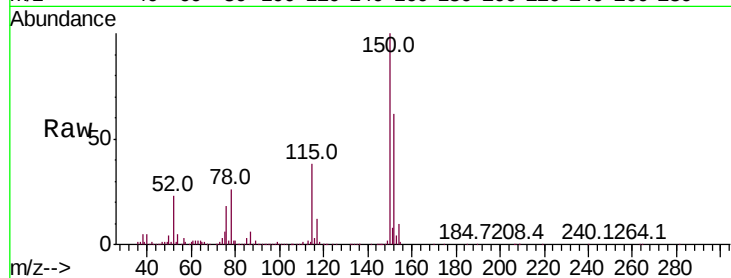
Tot Ion:152 Resp: 354821

Ion Ratio Lower Upper

152 100

115 61.1 41.8 125.4

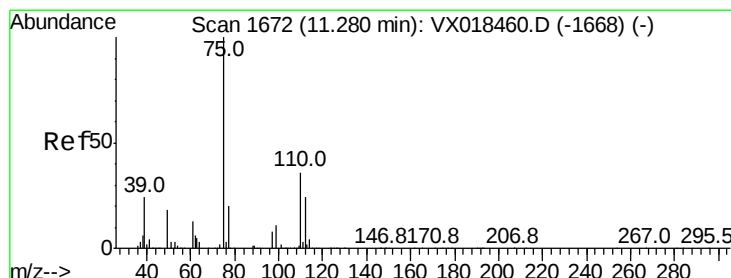
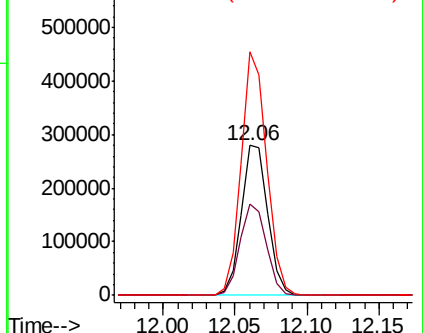
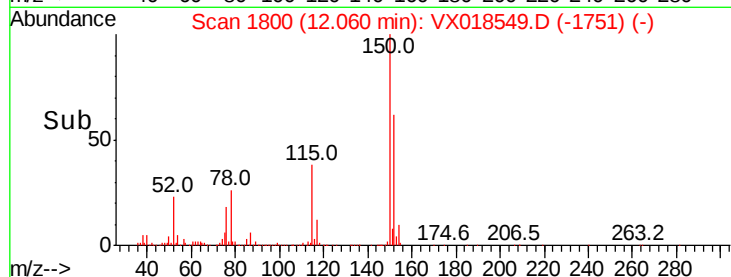
150 157.4 0.0 342.4



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: 23.199 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018549.D

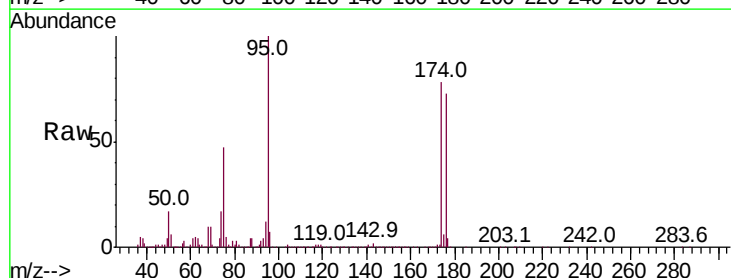
Acq: 23 Sep 2020 21:00

Tgt Ion: 75 Resp: 172981

Ion Ratio Lower Upper

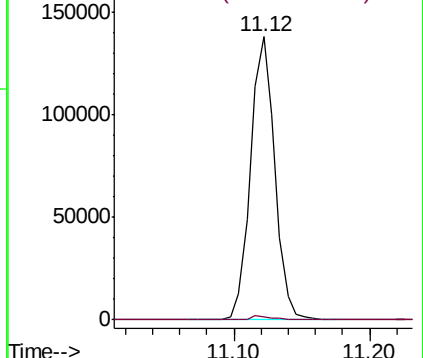
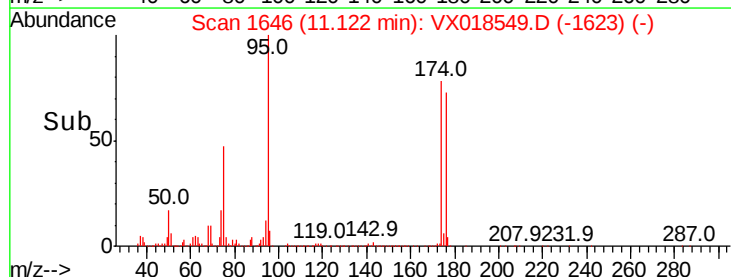
75 100

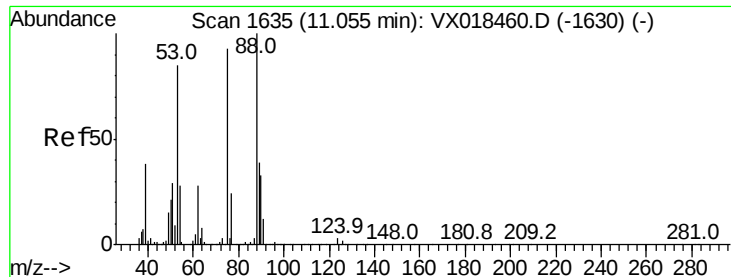
77 1.6 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.448 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018549.D

Acq: 23 Sep 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

RE109D1-20200917

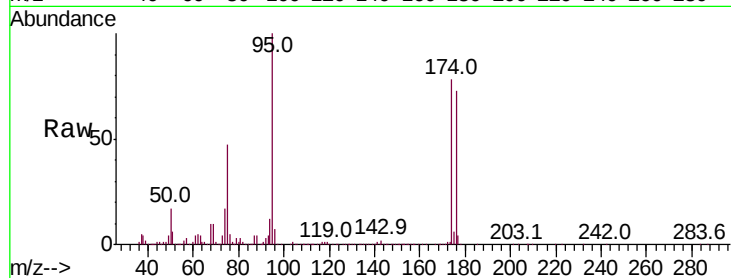
Tot Ion: 75 Resp: 172981

Ion Ratio Lower Upper

75 100

53 0.5 74.6 111.8#

89 0.1 36.2 54.4#



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

