

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019889.D
 Acq On : 11 Dec 2020 20:53
 Operator : JC/MD
 Sample : L4996-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D3-20201207

Quant Time: Dec 12 00:06:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	317111	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	527488	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	475779	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	204457	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	200763	48.17	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.34%	
35) Dibromofluoromethane		5.46	113	163063	47.83	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.66%	
50) Toluene-d8		8.70	98	642477	49.36	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.72%	
62) 4-Bromofluorobenzene		11.12	95	220192	44.45	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	88.90%	

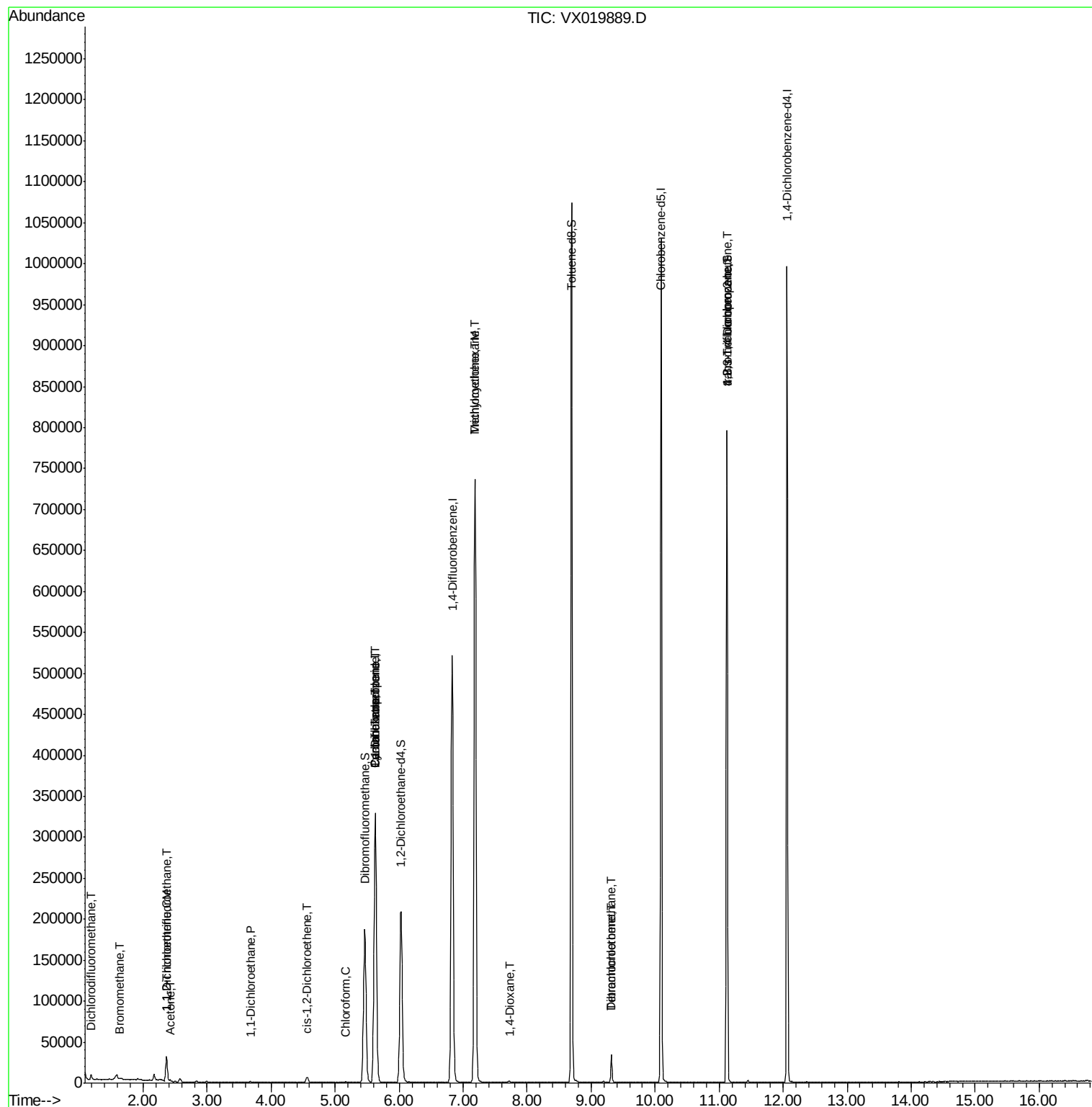
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	2131	0.734	ug/l	97
5) Bromomethane	1.64	94	585	0.489	ug/l #	63
9) 1,1,2-Trichlorotrifluoroet	2.37	101	11875	4.132	ug/l	99
11) Tert butyl alcohol	3.00	59	683	Below Cal	#	73
12) 1,1-Dichloroethene	2.36	96	1674	0.576	ug/l #	94
16) Acetone	2.42	43	2082	1.329	ug/l	91
20) Methylene Chloride	2.84	84	773	Below Cal		92
24) 1,1-Dichloroethane	3.67	63	1360	0.227	ug/l #	81
27) cis-1,2-Dichloroethene	4.56	96	3924	0.990	ug/l	95
30) Chloroform	5.17	83	1250	0.203	ug/l	95
31) Cyclohexane	5.62	56	6105	1.178	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24680	5.178	ug/l #	48
38) Carbon Tetrachloride	5.63	117	31143	6.672	ug/l #	17
39) Methylcyclohexane	7.18	83	3391	0.606	ug/l #	1
44) Trichloroethene	7.18	130	292297	76.511	ug/l	98
49) 1,4-Dioxane	7.71	88	1605	17.217	ug/l #	91
60) Dibromochloromethane	9.32	129	6066	1.627	ug/l #	11
64) Tetrachloroethene	9.32	164	6443	2.019	ug/l	91
76) 1,2,3-Trichloropropane	11.12	75	107725	23.492	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107725	67.911	ug/l #	12

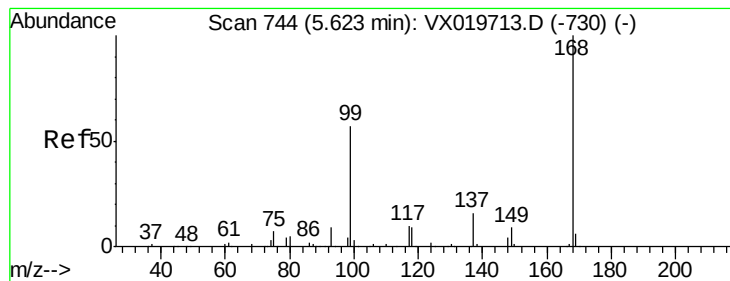
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

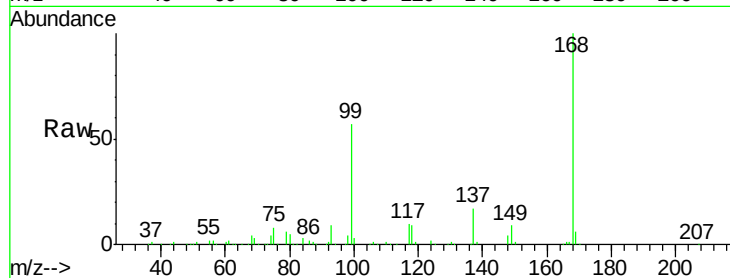
RE132D3-20201207

Tgt Ion:168 Resp: 317111

Ion Ratio Lower Upper

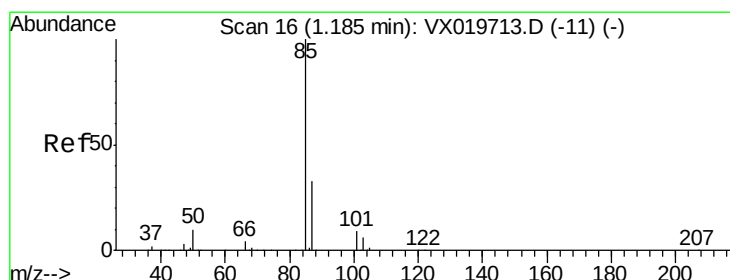
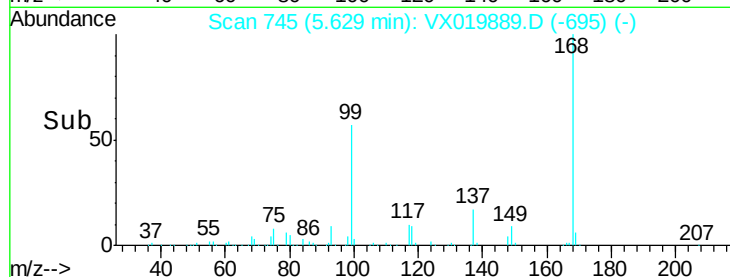
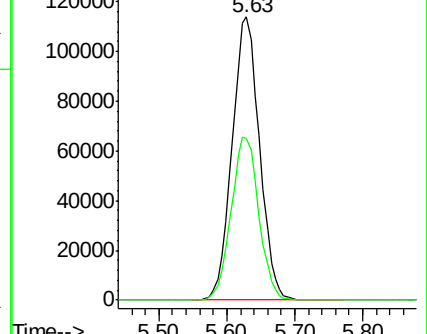
168 100

99 57.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.734 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019889.D

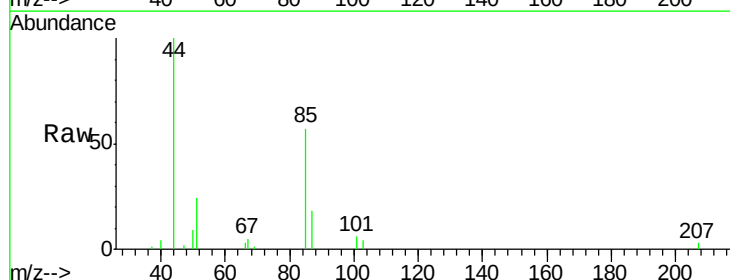
Acq: 11 Dec 2020 20:53

Tgt Ion: 85 Resp: 2131

Ion Ratio Lower Upper

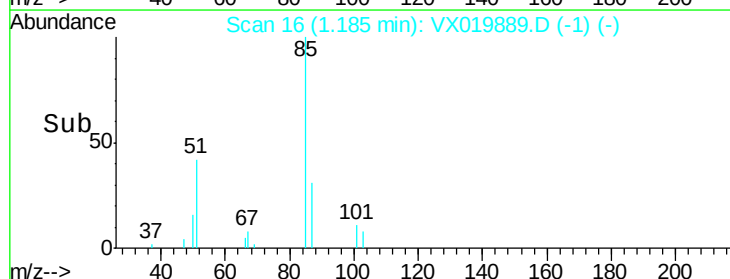
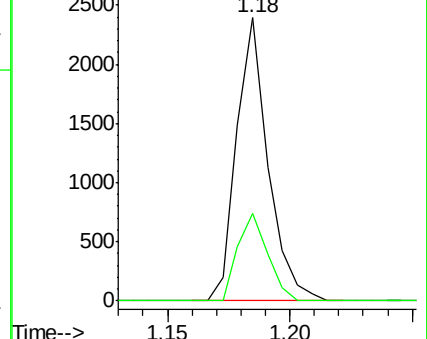
85 100

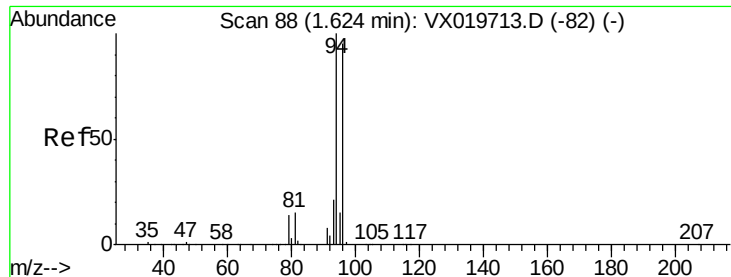
87 31.1 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: 0.489 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

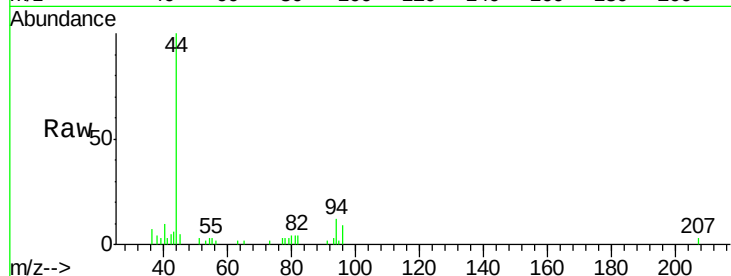
RE132D3-20201207

Tgt Ion: 94 Resp: 585

Ion Ratio Lower Upper

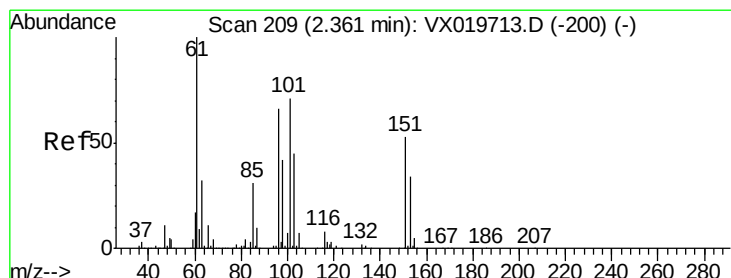
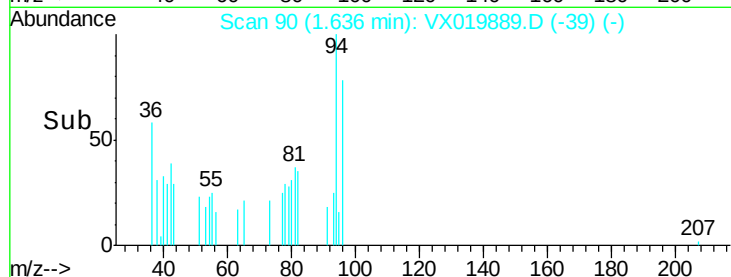
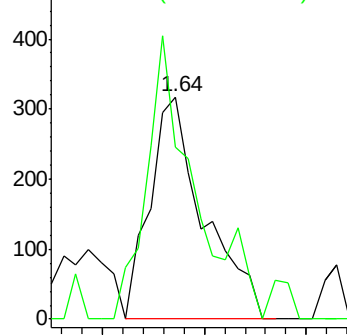
94 100

96 59.9 76.4 114.6#



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: 4.132 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

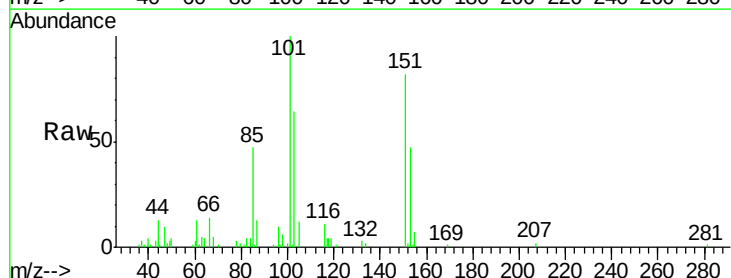
Tgt Ion: 101 Resp: 11875

Ion Ratio Lower Upper

101 100

85 44.2 34.9 52.3

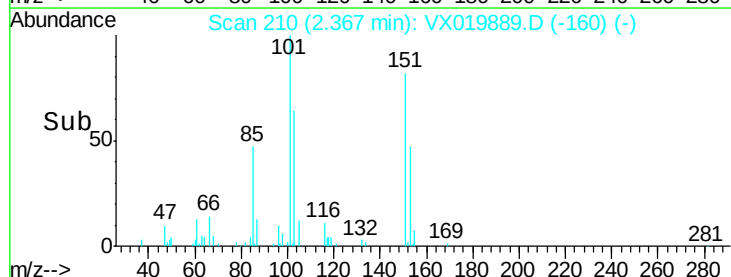
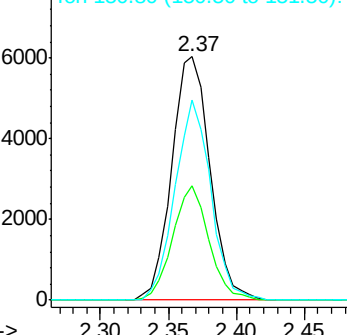
151 77.0 61.4 92.2

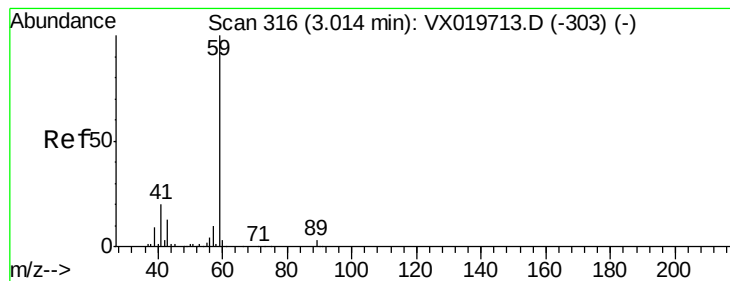


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



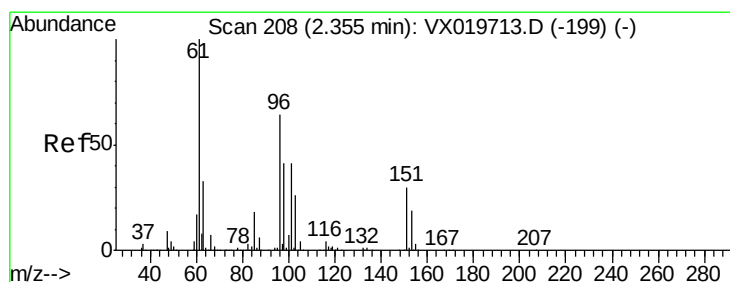
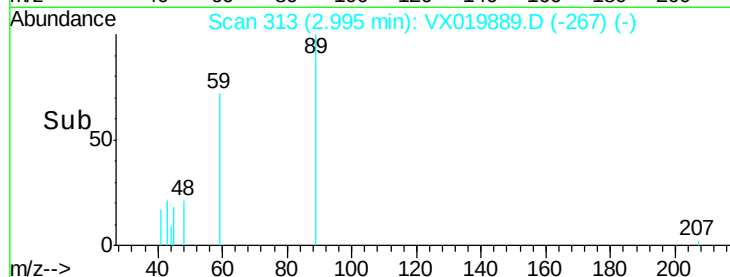
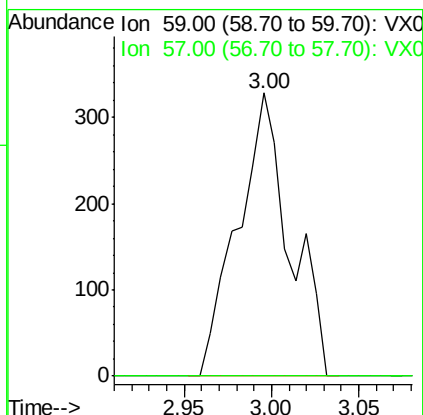
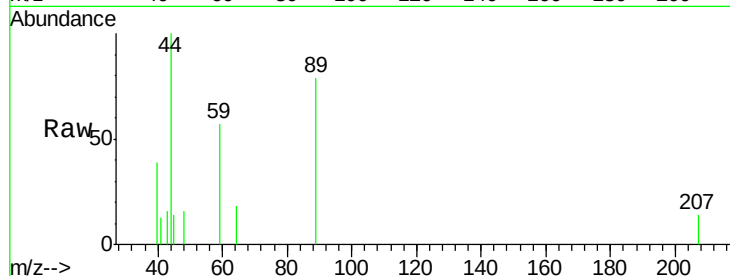


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019889.D
Acq: 11 Dec 2020 20:53

Instrument :
MSVOA_X
ClientSampleId :
RE132D3-20201207

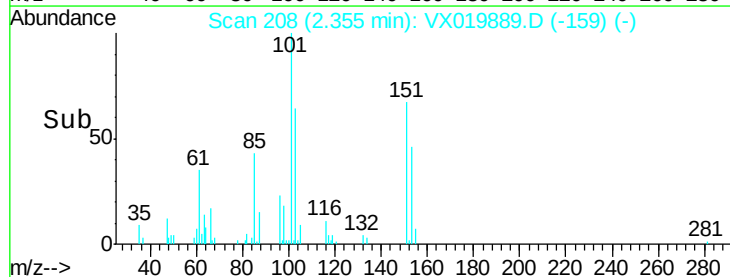
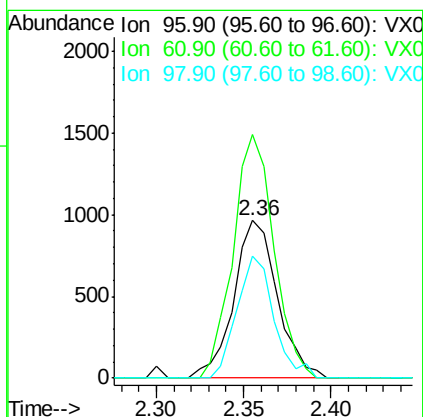
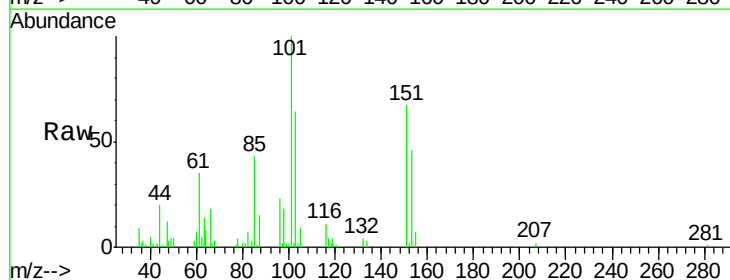
Tgt Ion: 59 Resp: 683
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

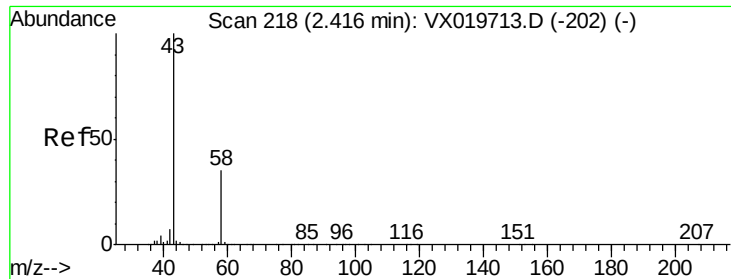


#12

1,1-Dichloroethene
Concen: 0.576 ug/l
RT: 2.36 min Scan# 208
Delta R.T. 0.00 min
Lab File: VX019889.D
Acq: 11 Dec 2020 20:53

Tgt Ion: 96 Resp: 1674
Ion Ratio Lower Upper
96 100
61 154.7 124.6 187.0
98 77.5 50.6 76.0#





#16

Acetone

Concen: 1.329 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

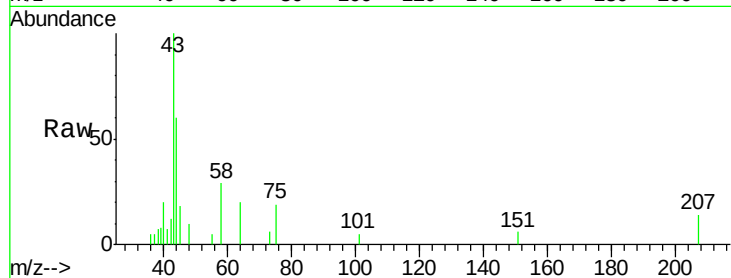
RE132D3-20201207

Tgt Ion: 43 Resp: 2082

Ion Ratio Lower Upper

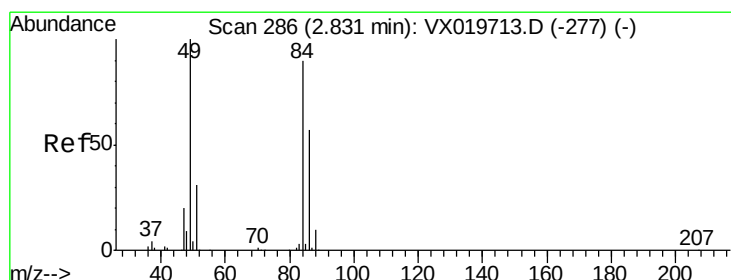
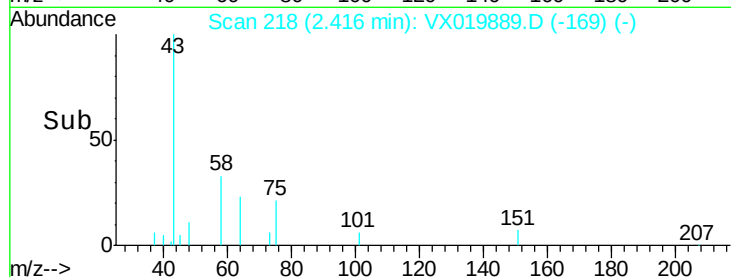
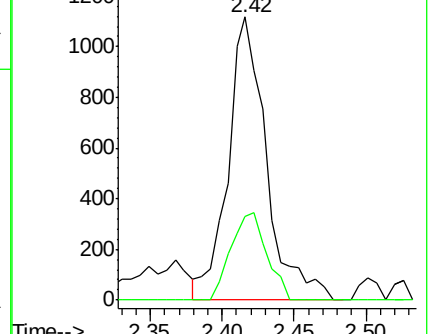
43 100

58 29.4 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Tgt Ion: 84 Resp: 773

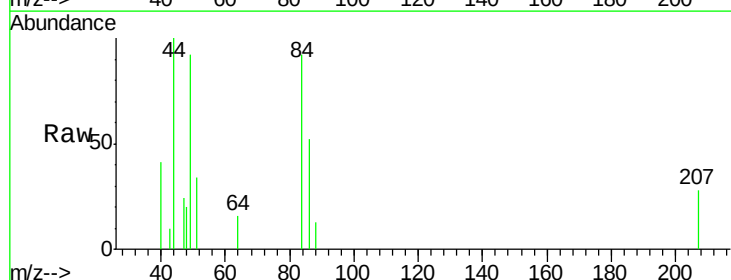
Ion Ratio Lower Upper

84 100

49 100.8 88.6 132.8

51 36.6 27.0 40.6

86 56.7 50.3 75.5

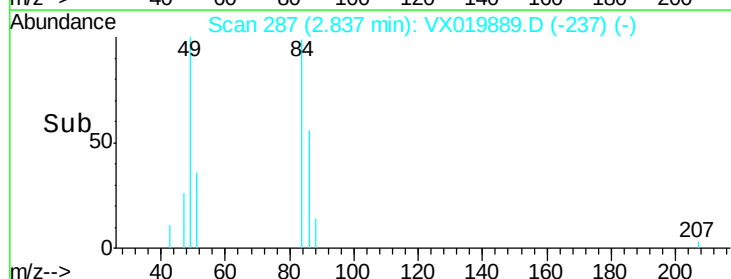
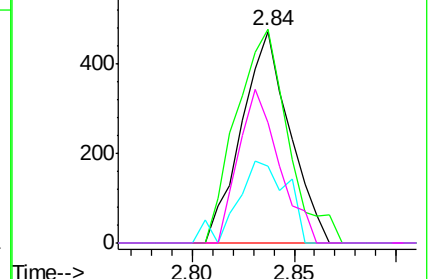


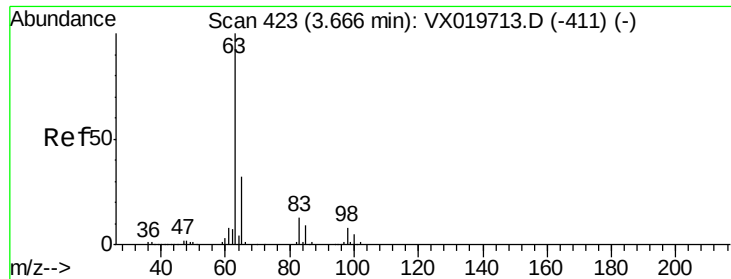
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#24

1,1-Dichloroethane

Concen: 0.227 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

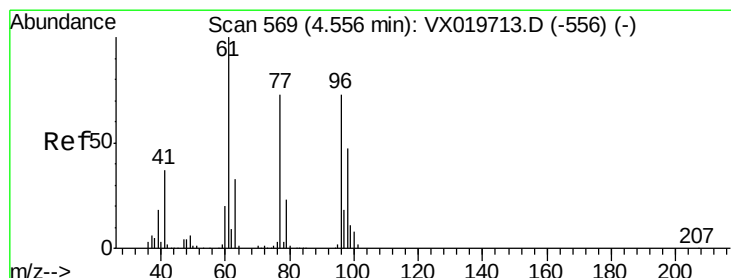
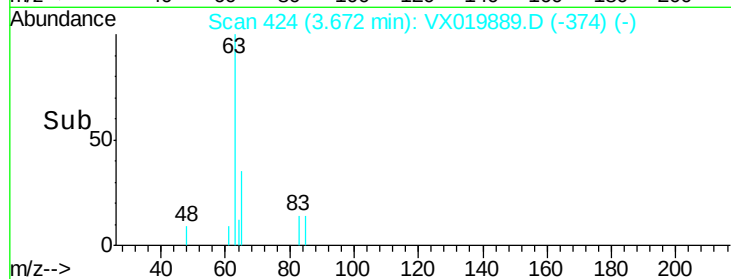
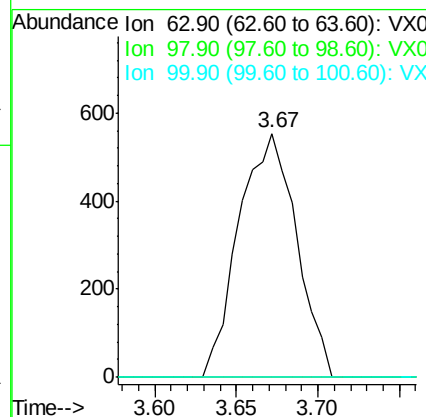
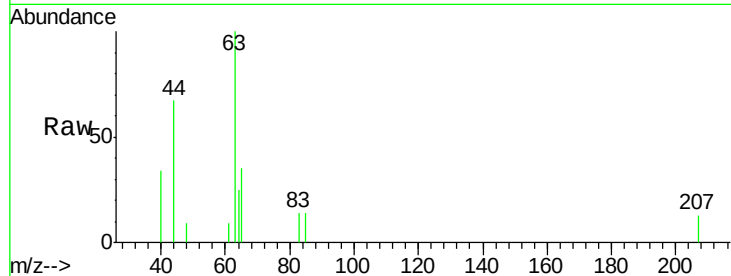
Instrument :

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ClientSampleId :

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Tgt Ion:	63	Resp:	1360
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.2#
100	0.0	2.5	7.5#



#27

cis-1,2-Dichloroethene

Concen: 0.990 ug/l

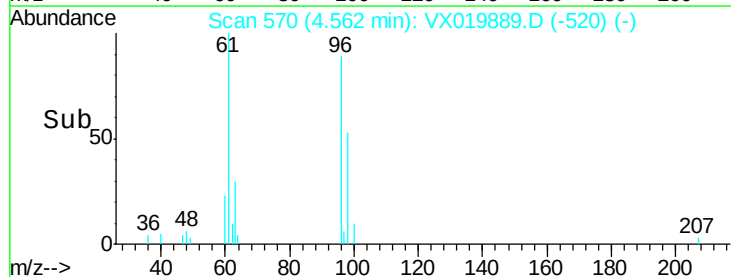
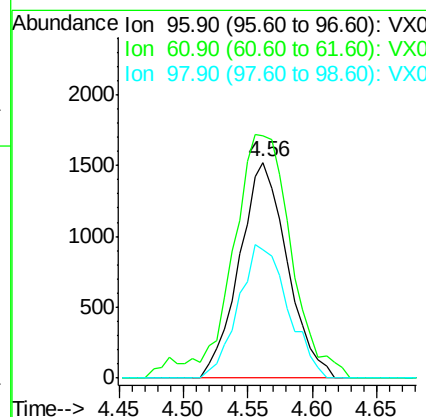
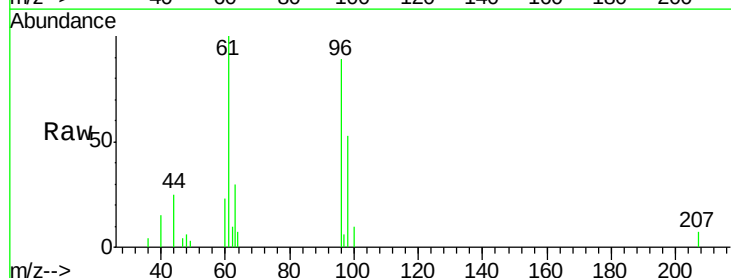
RT: 4.56 min Scan# 570

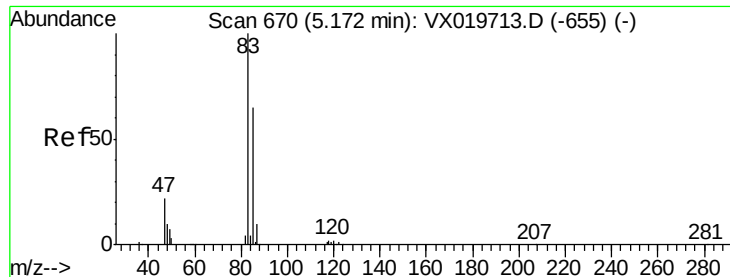
Delta R.T. 0.01 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Tgt Ion:	96	Resp:	3924
Ion	Ratio	Lower	Upper
96	100		
61	135.2	0.0	285.6
98	63.6	0.0	129.6

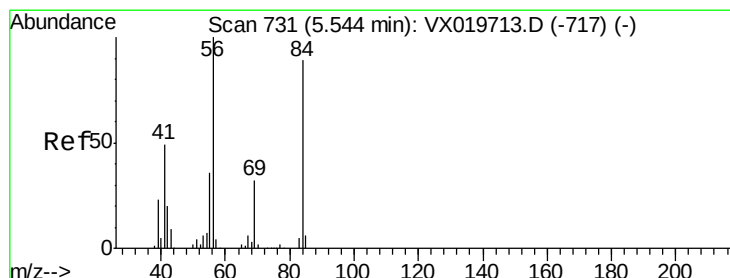
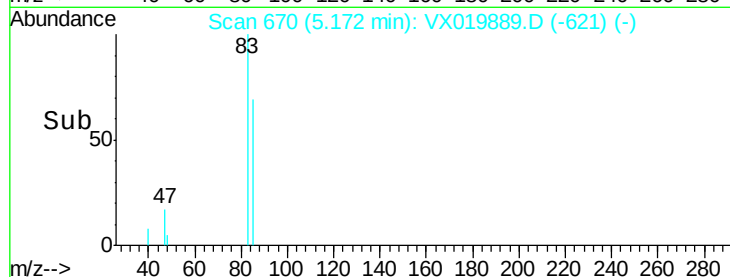
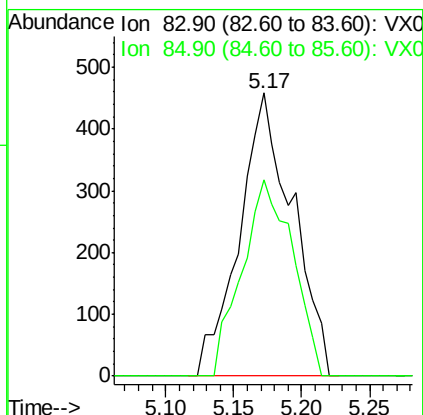
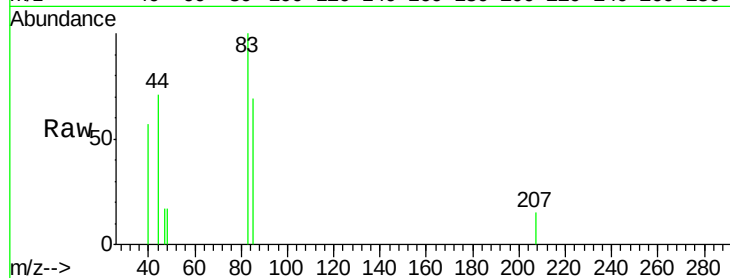




#30
Chloroform
Concen: 0.203 ug/l
RT: 5.17 min Scan# 670
Delta R.T. 0.00 min
Lab File: VX019889.D
Acq: 11 Dec 2020 20:53

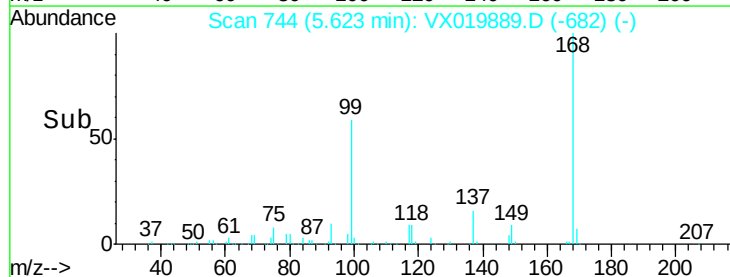
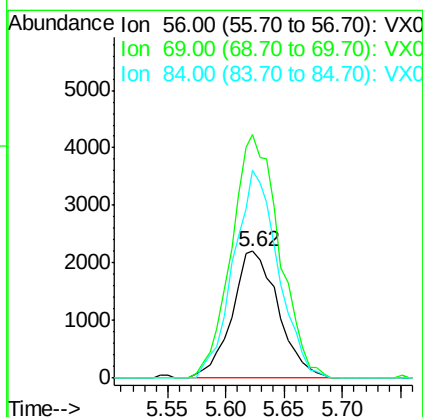
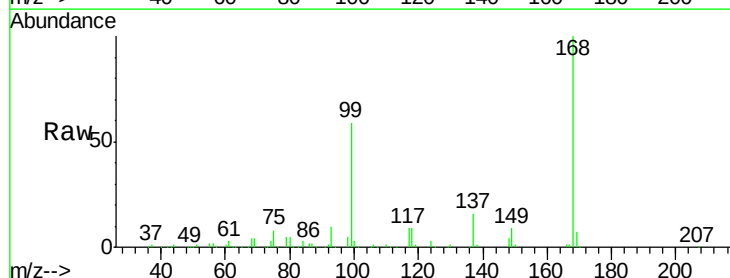
Instrument :
MSVOA_X
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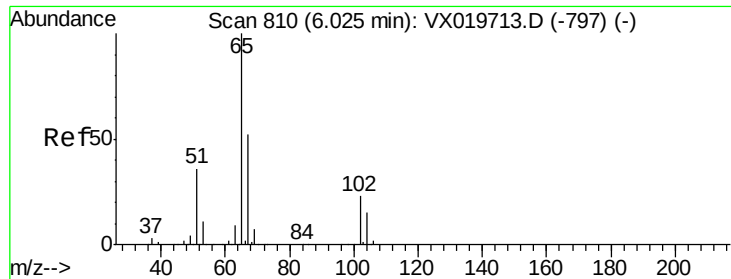
Tgt Ion: 83 Resp: 1250
Ion Ratio Lower Upper
83 100
85 69.2 52.0 78.0



#31
Cyclohexane
Concen: 1.178 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019889.D
Acq: 11 Dec 2020 20:53

Tgt Ion: 56 Resp: 6105
Ion Ratio Lower Upper
56 100
69 192.4 25.3 37.9#
84 164.2 71.4 107.0#

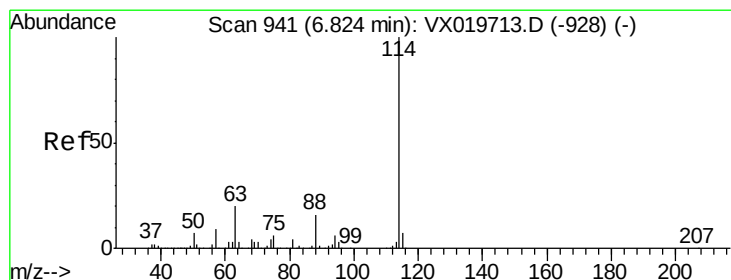
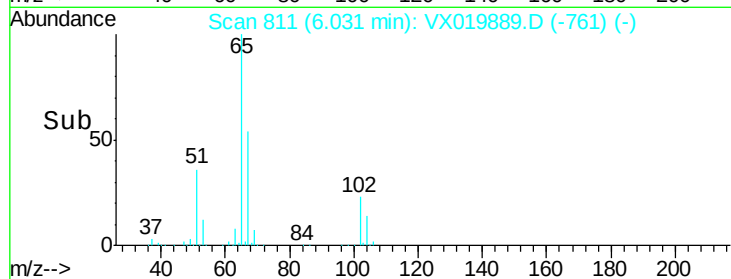
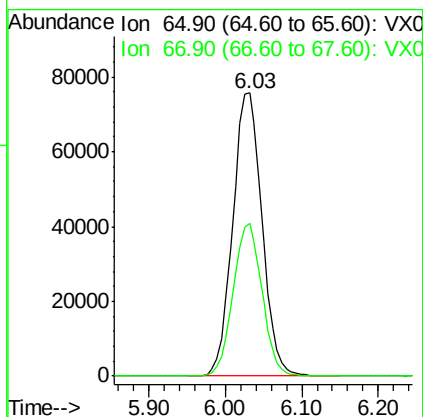
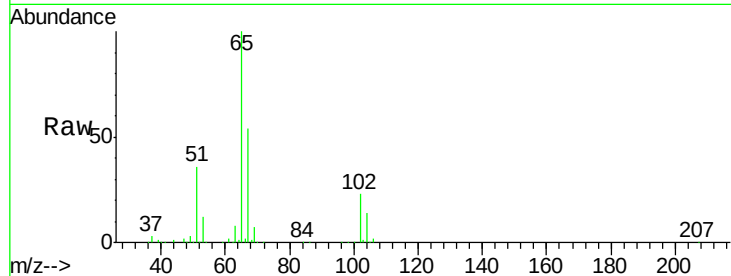




#33
 1,2-Dichloroethane-d4
 Concen: 48.170 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.01 min
 Lab File: VX019889.D
 Acq: 11 Dec 2020 20:53

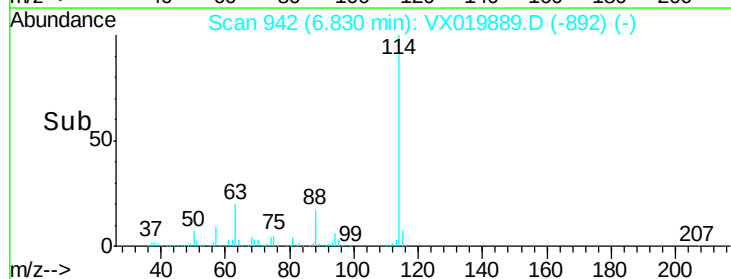
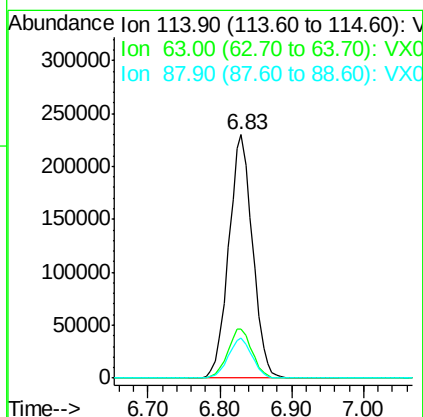
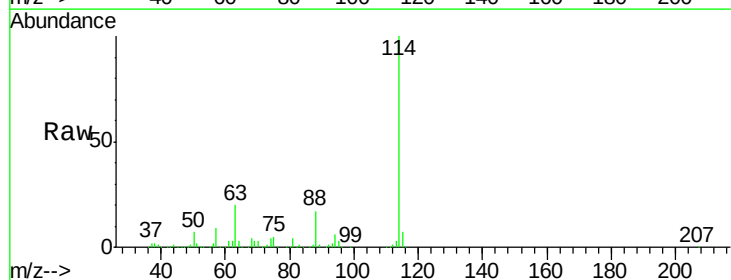
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D3-20201207

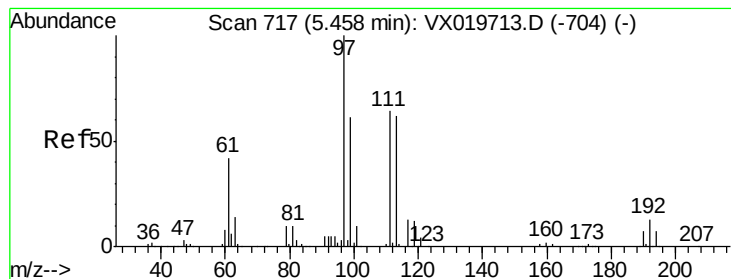
Tgt Ion: 65 Resp: 200763
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019889.D
 Acq: 11 Dec 2020 20:53

Tgt Ion: 114 Resp: 527488
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.8
 88 16.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.832 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20201207

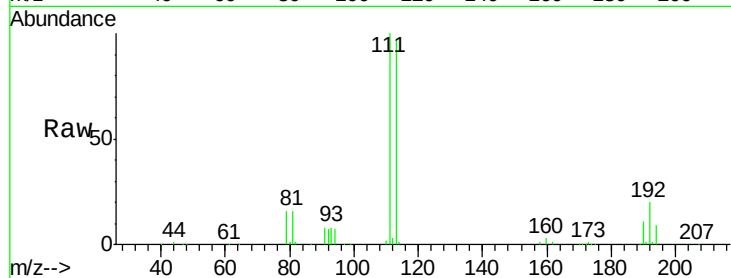
Tgt Ion:113 Resp: 163063

Ion Ratio Lower Upper

113 100

111 102.9 81.9 122.9

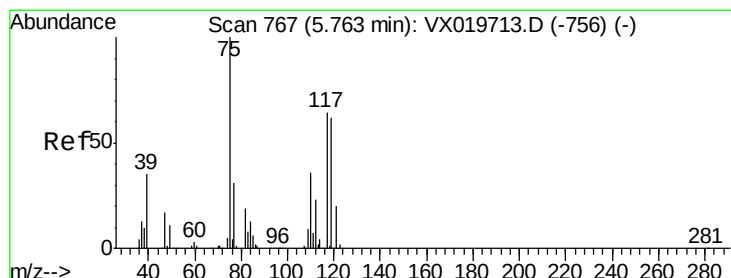
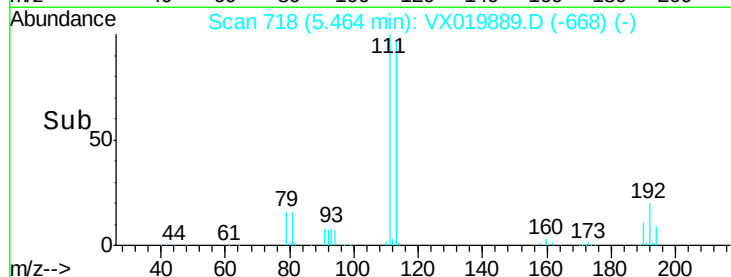
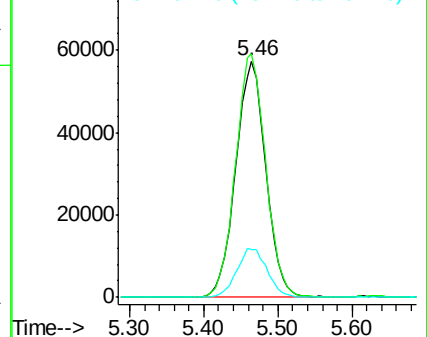
192 20.8 16.7 25.1



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: 5.178 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

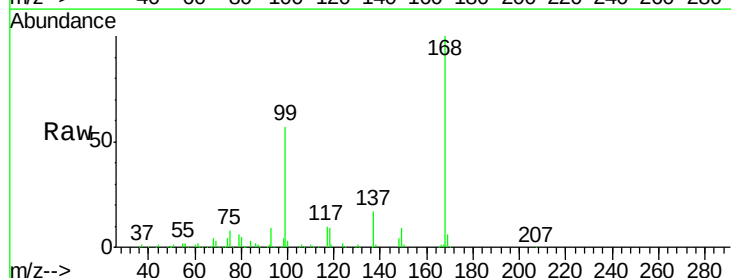
Tgt Ion: 75 Resp: 24680

Ion Ratio Lower Upper

75 100

110 8.3 18.1 54.4#

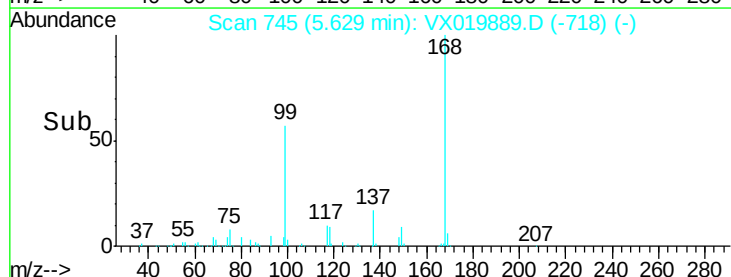
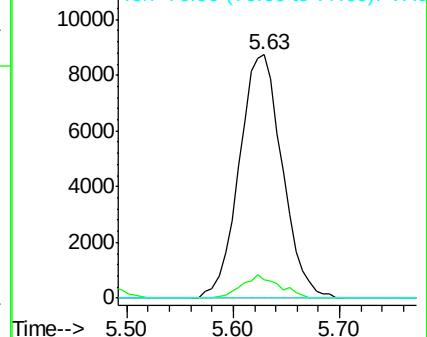
77 0.0 25.3 37.9#

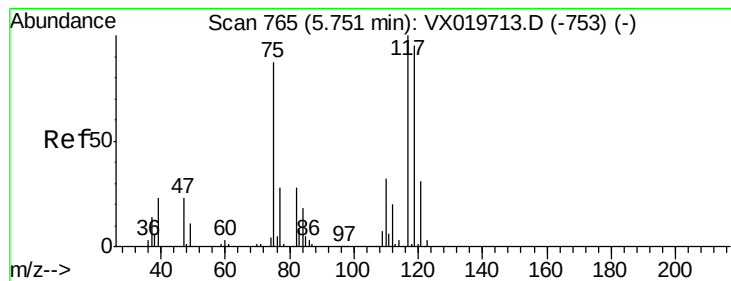


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.672 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20201207

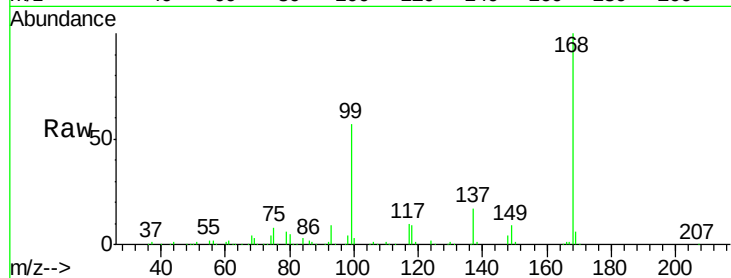
Tgt Ion: 117 Resp: 31143

Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.2#

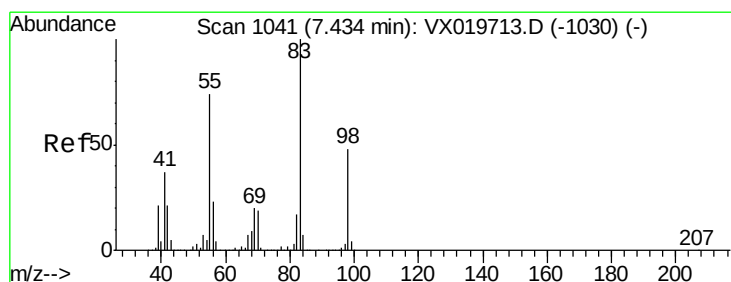
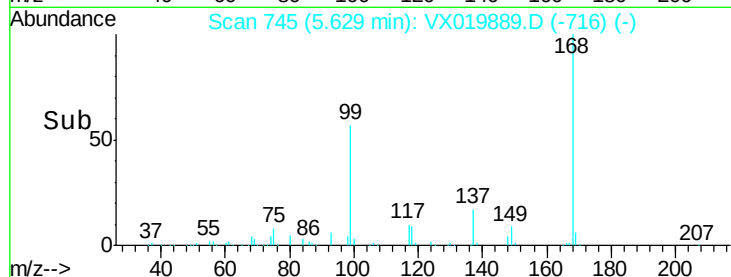
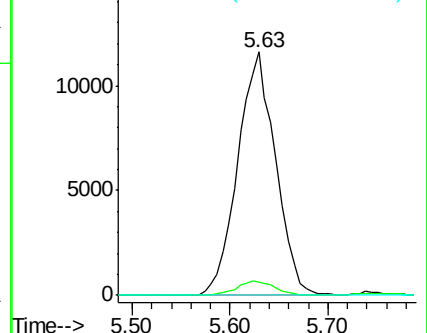
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.606 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.25 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

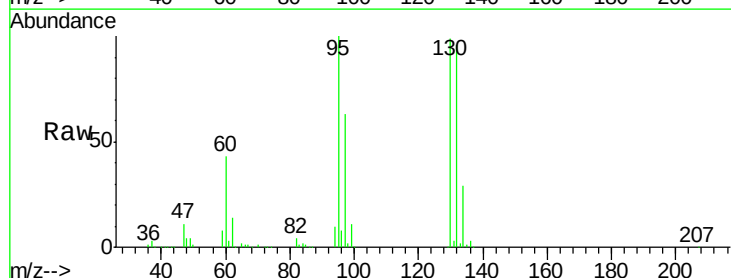
Tgt Ion: 83 Resp: 3391

Ion Ratio Lower Upper

83 100

55 0.0 58.9 88.3#

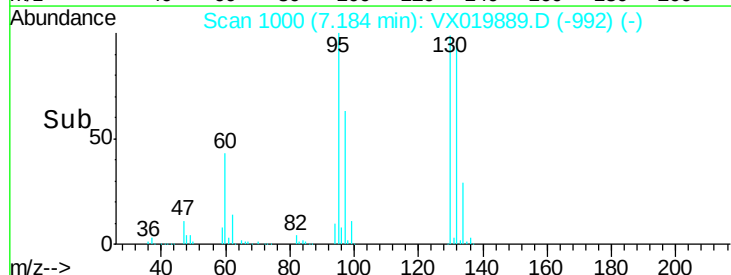
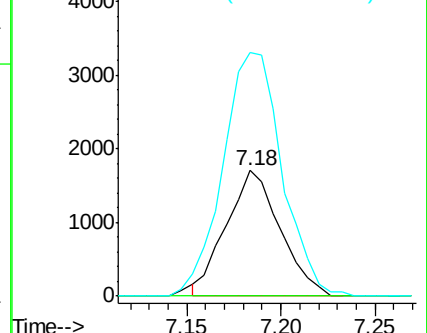
98 190.1 38.1 57.1#

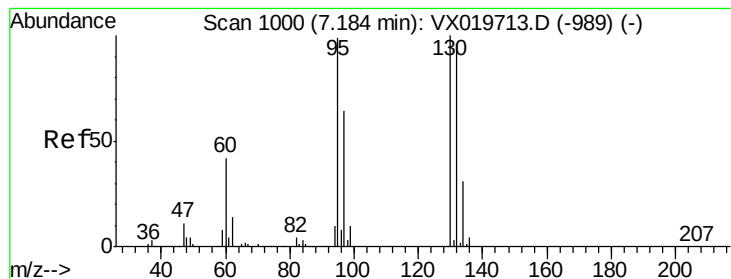


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 76.511 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

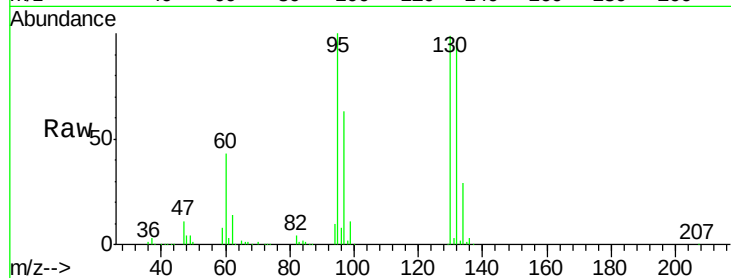
RE132D3-20201207

Tgt Ion:130 Resp: 292297

Ion Ratio Lower Upper

130 100

95 101.2 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.18

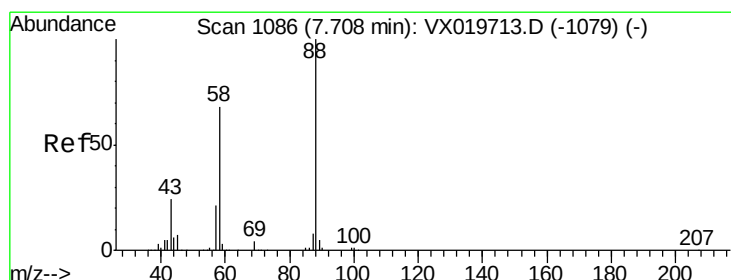
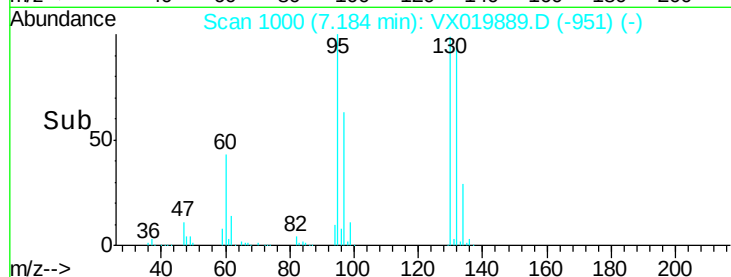
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 17.217 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. 0.01 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

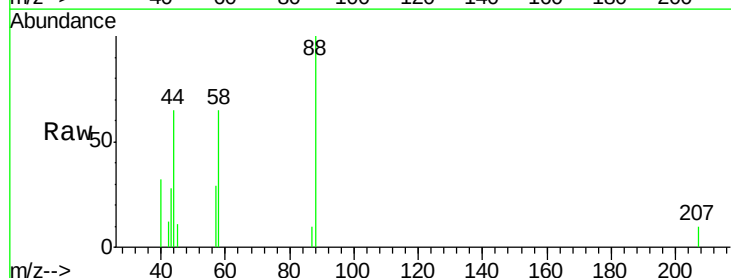
Tgt Ion: 88 Resp: 1605

Ion Ratio Lower Upper

88 100

43 42.9 23.2 34.8#

58 67.0 55.0 82.4



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

7.71

1000

800

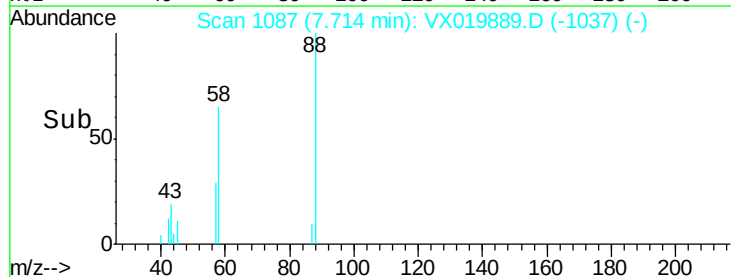
600

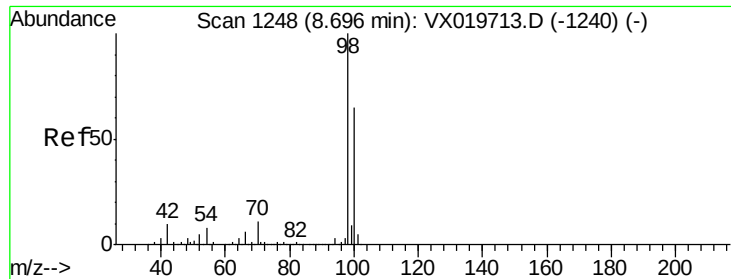
400

200

0

Time-->

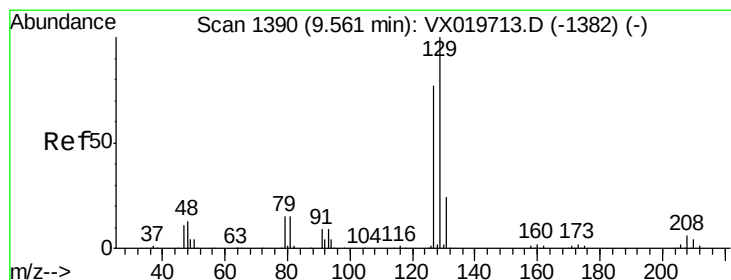
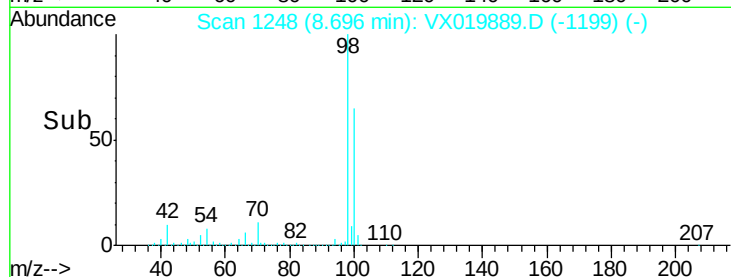
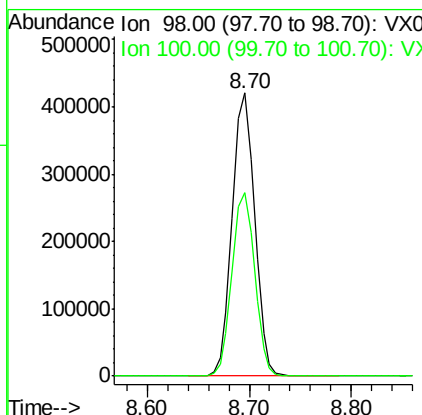
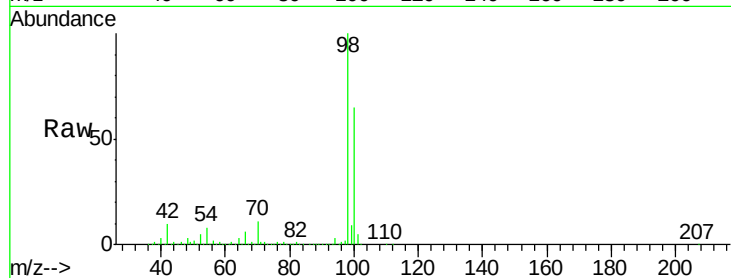




#50
Toluene-d8
Concen: 49.364 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019889.D
Acq: 11 Dec 2020 20:53

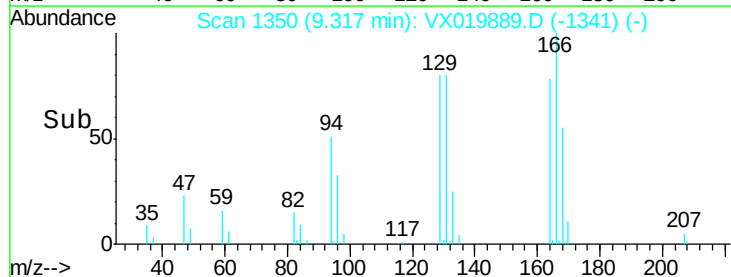
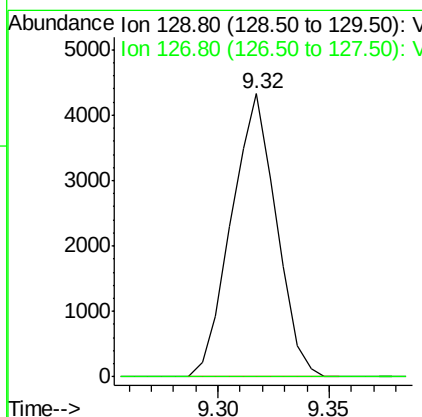
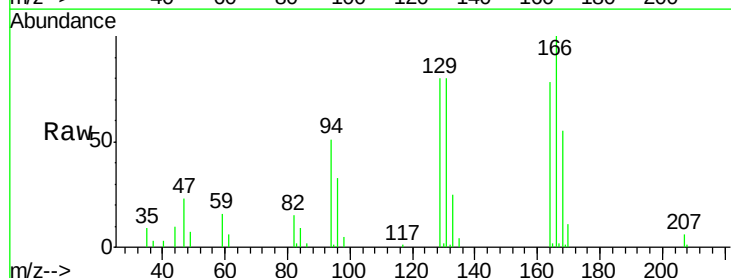
Instrument :
MSVOA_X
ClientSampleId :
RE132D3-20201207

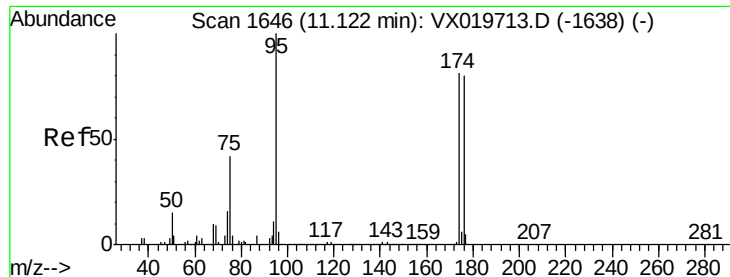
Tgt Ion: 98 Resp: 642477
Ion Ratio Lower Upper
98 100
100 65.3 51.9 77.9



#60
Dibromochloromethane
Concen: 1.627 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.24 min
Lab File: VX019889.D
Acq: 11 Dec 2020 20:53

Tgt Ion: 129 Resp: 6066
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 44.450 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20201207

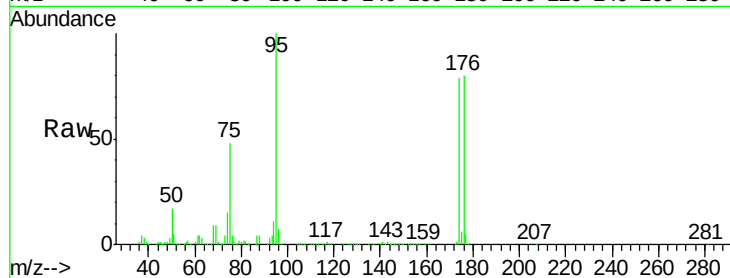
Tgt Ion: 95 Resp: 220192

Ion Ratio Lower Upper

95 100

174 77.2 0.0 154.6

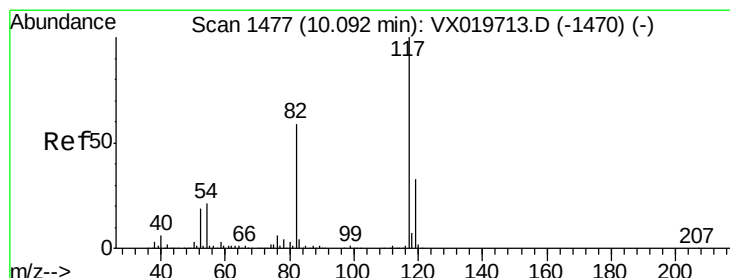
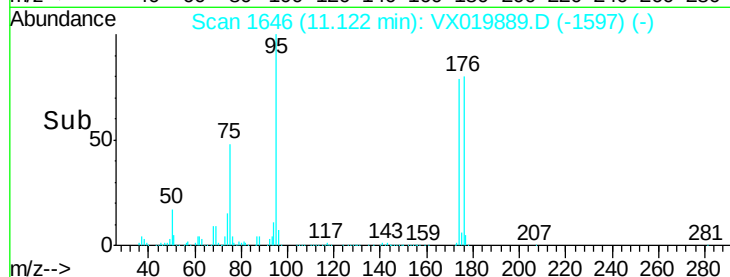
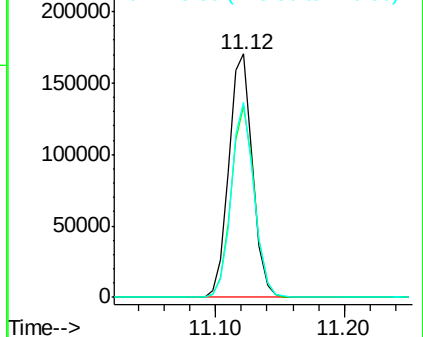
176 77.0 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

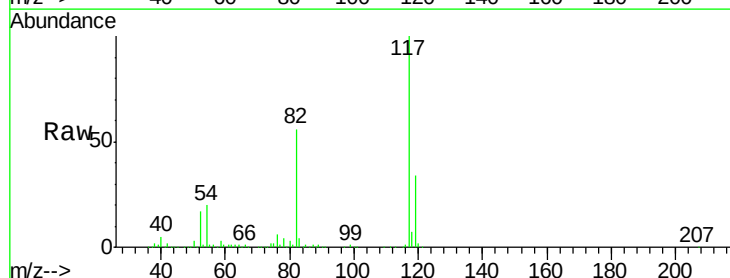
Tgt Ion: 117 Resp: 475779

Ion Ratio Lower Upper

117 100

82 55.6 47.4 71.2

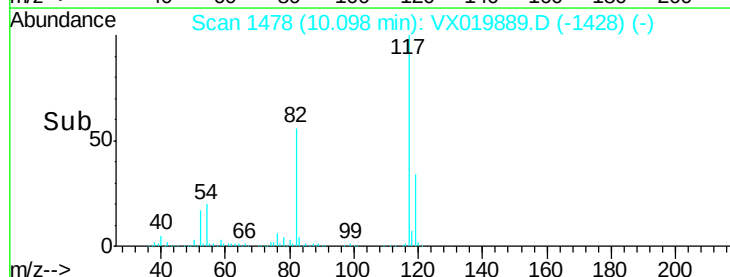
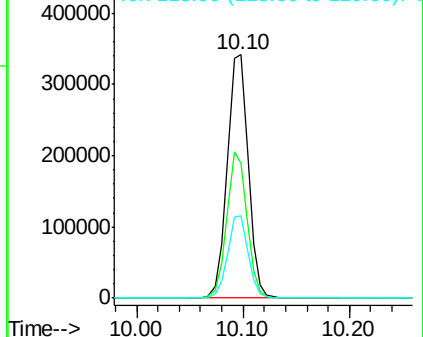
119 33.8 26.6 39.8

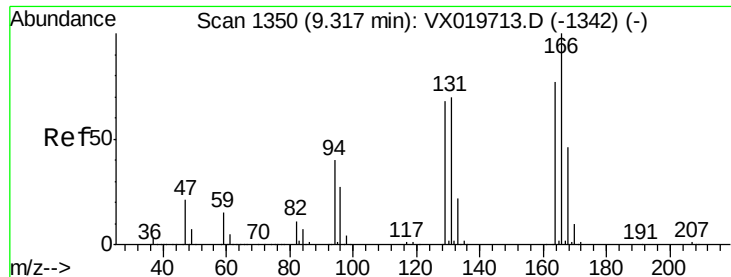


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#64

Tetrachloroethene

Concen: 2.019 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20201207

Tgt Ion:164 Resp: 6443

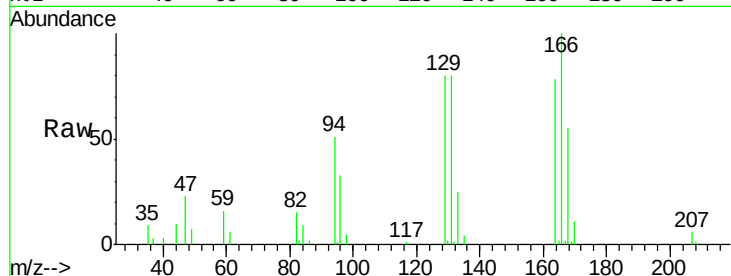
Ion Ratio Lower Upper

164 100

166 128.5 103.4 155.2

129 103.1 70.8 106.2

131 102.6 72.5 108.7

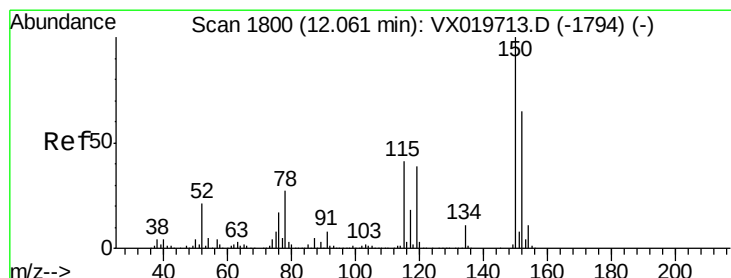
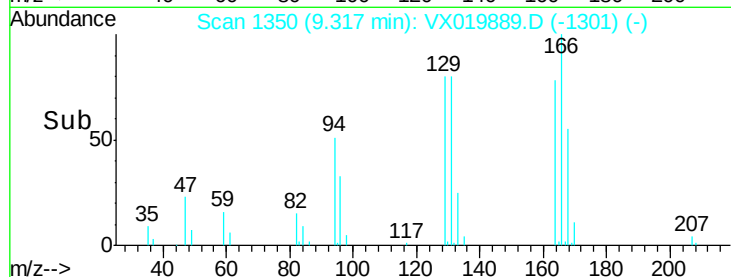
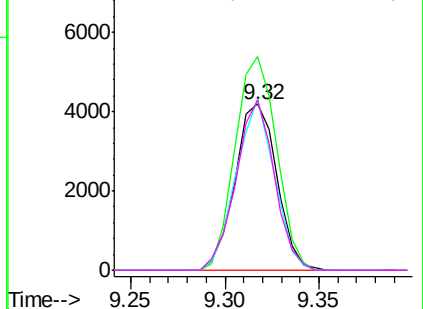


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019889.D

Acq: 11 Dec 2020 20:53

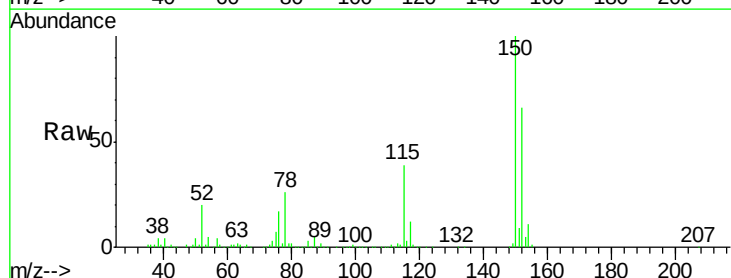
Tgt Ion:152 Resp: 204457

Ion Ratio Lower Upper

152 100

115 60.9 41.1 123.3

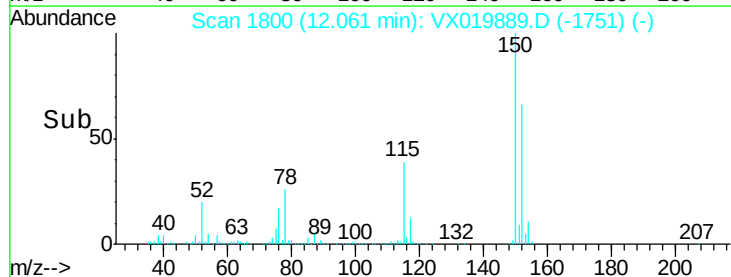
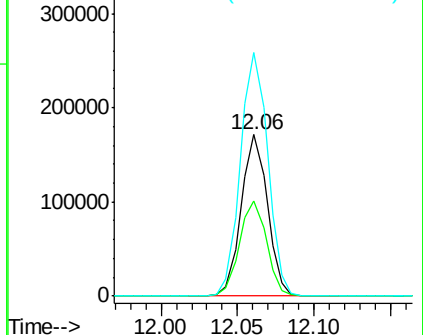
150 157.4 0.0 349.0

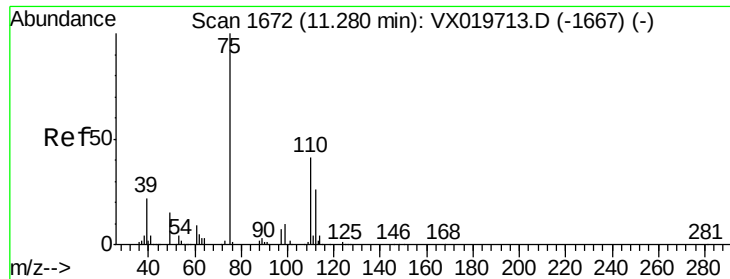


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

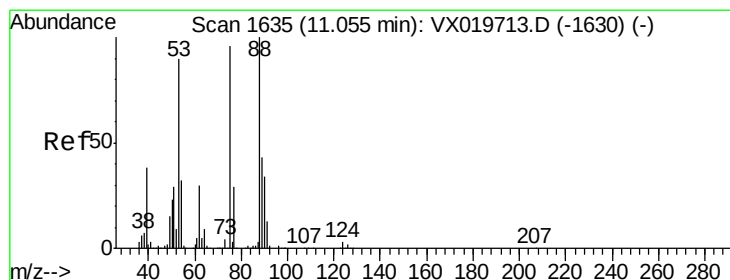
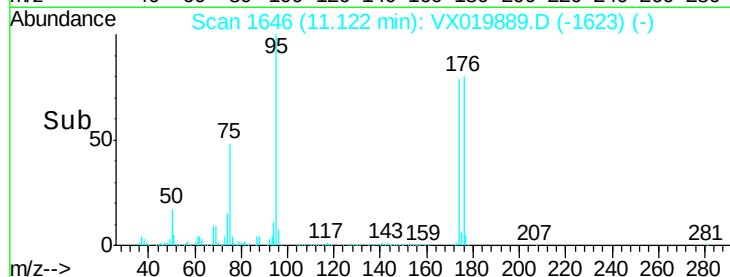
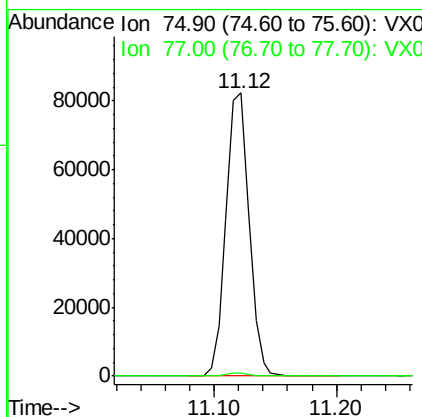
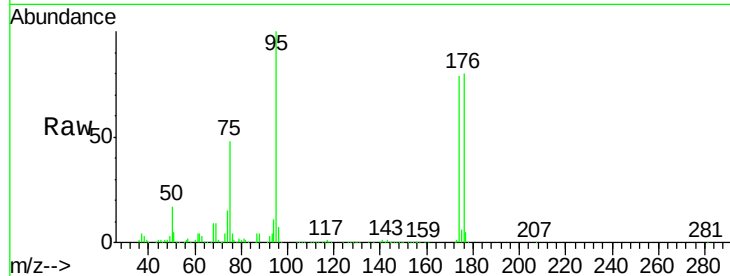




#76
 1,2,3-Trichloropropane
 Concen: 23.492 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX019889.D
 Acq: 11 Dec 2020 20:53

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D3-20201207

Tgt Ion: 75 Resp: 107725
 Ion Ratio Lower Upper
 75 100
 77 1.1 19.1 57.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.911 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019889.D
 Acq: 11 Dec 2020 20:53

Tgt Ion: 75 Resp: 107725
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.5 111.7#
 89 0.0 37.9 56.9#

