

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019908.D
 Acq On : 12 Dec 2020 05:24
 Operator : JC/MD
 Sample : L5025-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-TB-120920

Quant Time: Dec 12 06:55:22 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	329489	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	540977	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	490873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	210907	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	206549	47.70	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.40%
35) Dibromofluoromethane	5.46	113	166638	47.66	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.32%
50) Toluene-d8	8.70	98	658539	49.34	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.68%
62) 4-Bromofluorobenzene	11.12	95	228555	44.99	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.98%

Target Compounds

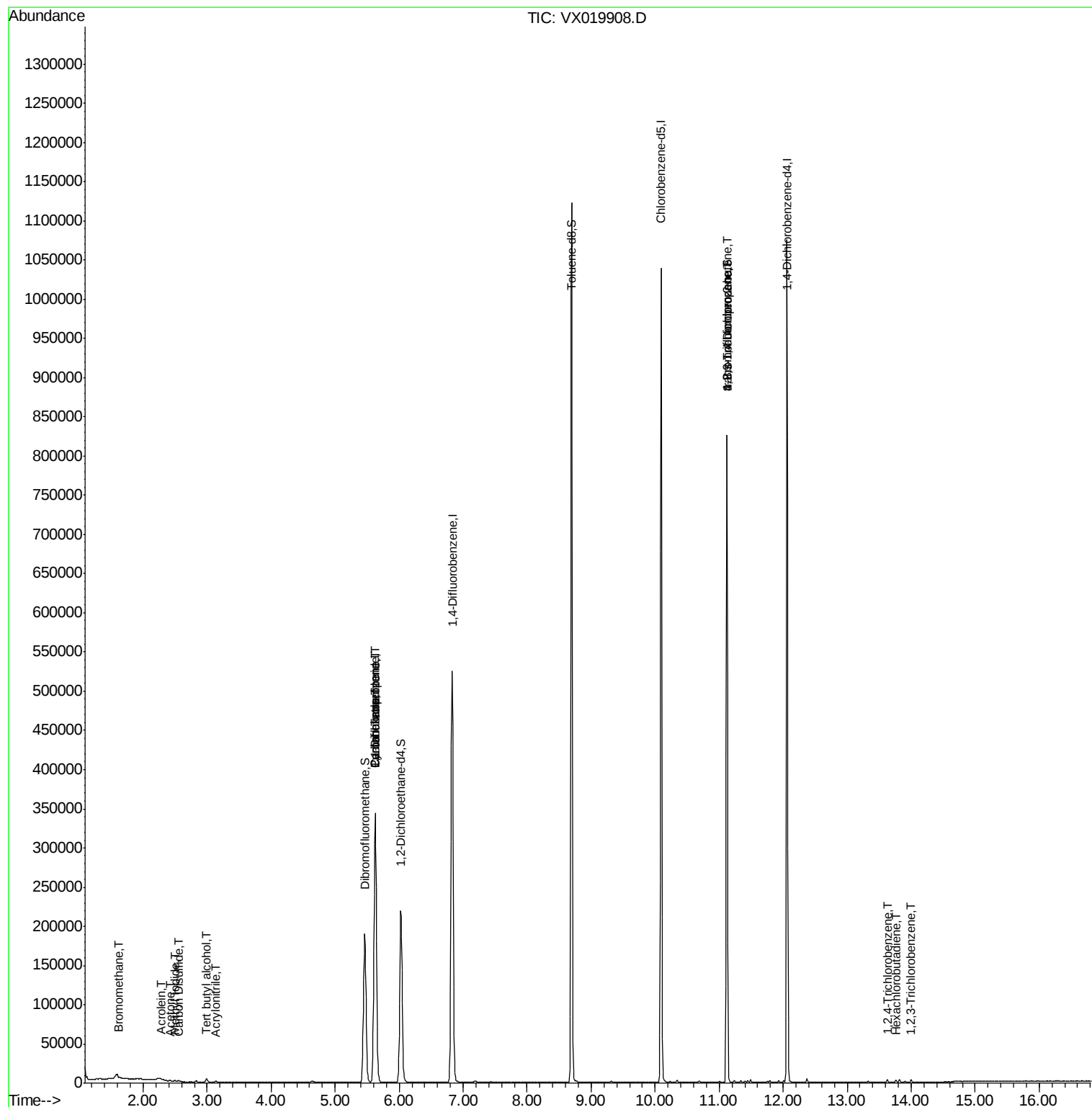
					Qvalue	
5) Bromomethane	1.63	94	589	0.474	ug/l	88
10) Methyl Iodide	2.49	142	2004	0.455	ug/l #	96
11) Tert butyl alcohol	2.98	59	2718	0.444	ug/l #	73
13) Acrolein	2.27	56	339	0.709	ug/l #	51
15) Acrylonitrile	3.12	53	591	0.302	ug/l	94
16) Acetone	2.42	43	1307	0.803	ug/l	98
17) Carbon Disulfide	2.55	76	2015	0.233	ug/l #	87
20) Methylene Chloride	2.83	84	914	Below Cal	#	86
31) Cyclohexane	5.62	56	6611	1.227	ug/l #	4
36) 1,1-Dichloropropene	5.62	75	24497	5.011	ug/l #	49
38) Carbon Tetrachloride	5.63	117	32541	6.798	ug/l #	17
76) 1,2,3-Trichloropropane	11.12	75	111258	23.520	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	111258	67.993	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	1050	0.244	ug/l	97
94) Hexachlorobutadiene	13.76	225	447	0.233	ug/l	89
96) 1,2,3-Trichlorobenzene	14.00	180	925	0.220	ug/l	96

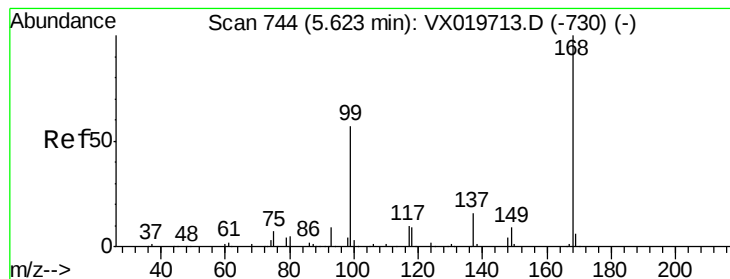
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
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: VX019908.D

Acq: 12 Dec 2020 05:24

Instrument :

MSVOA_X

ClientSampleId :

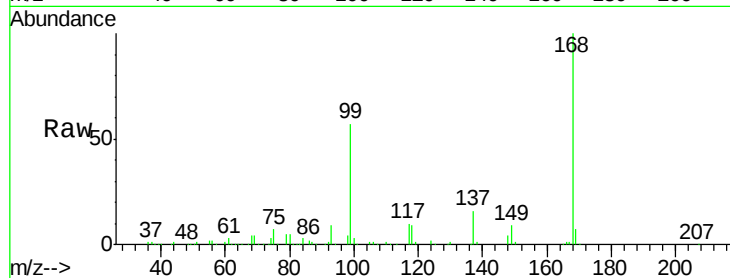
TU032-32-TB-120920

Tgt Ion:168 Resp: 329489

Ion Ratio Lower Upper

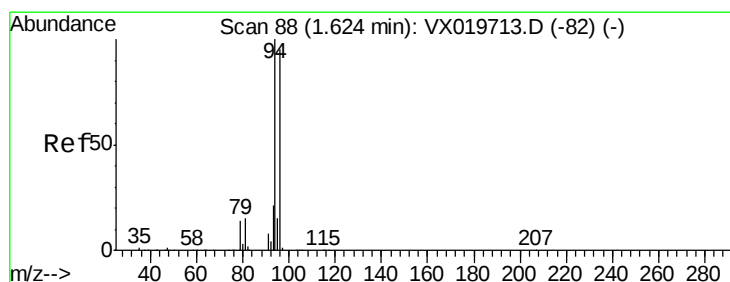
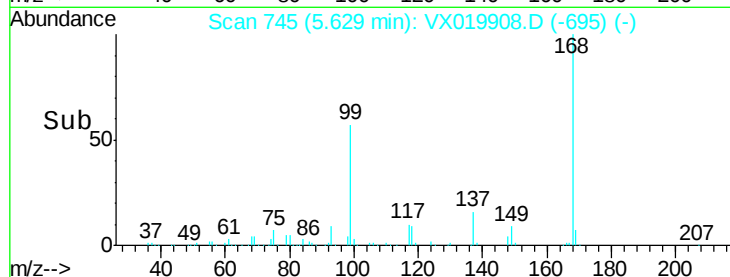
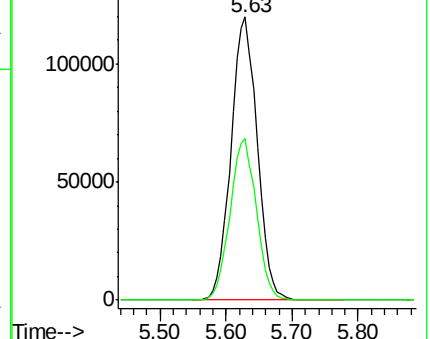
168 100

99 57.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.474 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019908.D

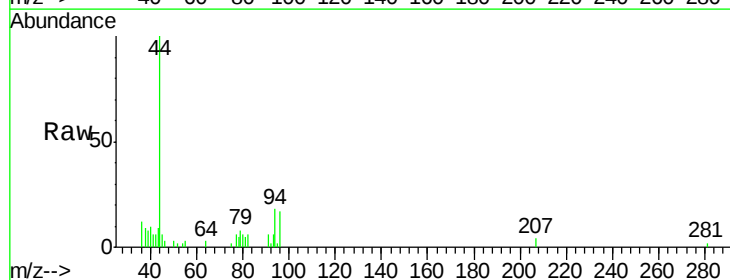
Acq: 12 Dec 2020 05:24

Tgt Ion: 94 Resp: 589

Ion Ratio Lower Upper

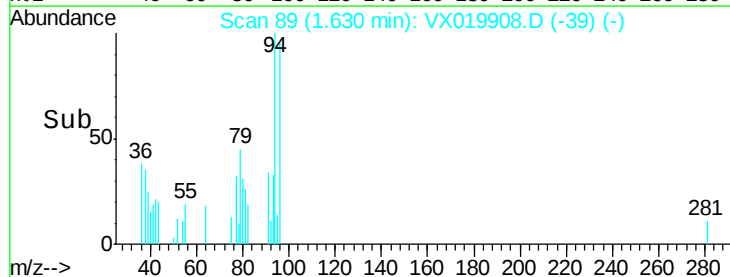
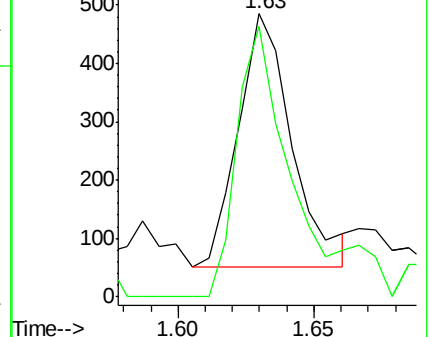
94 100

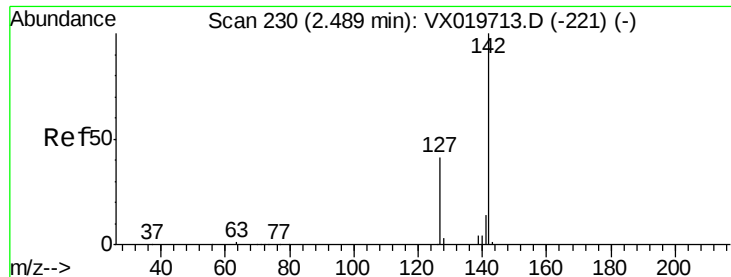
96 106.9 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

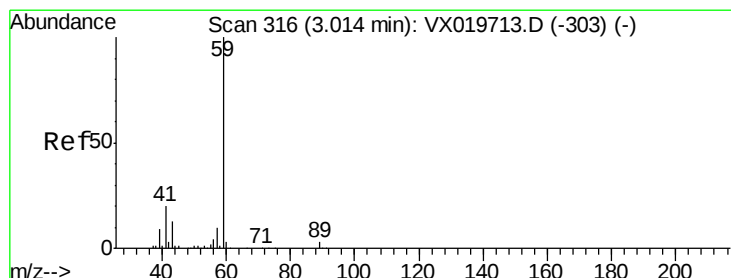
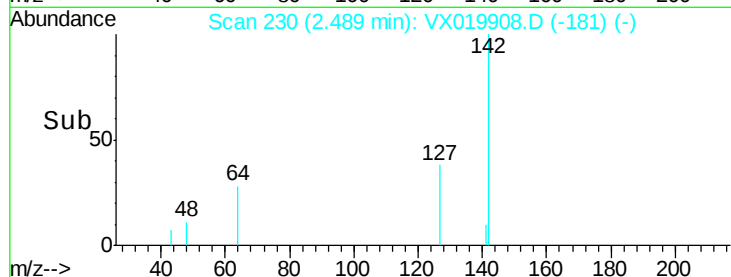
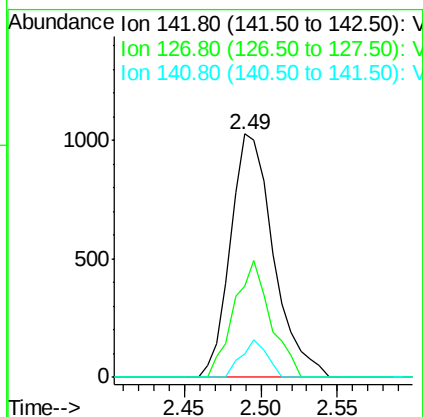
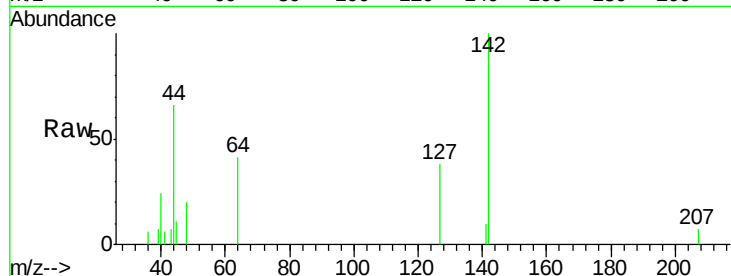




#10
Methyl Iodide
Concen: 0.455 ug/l
RT: 2.49 min Scan# 230
Delta R.T. 0.00 min
Lab File: VX019908.D
Acq: 12 Dec 2020 05:24

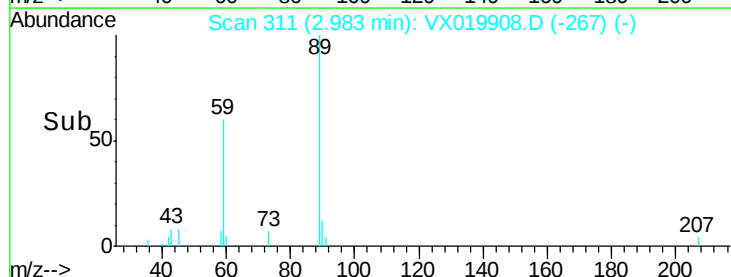
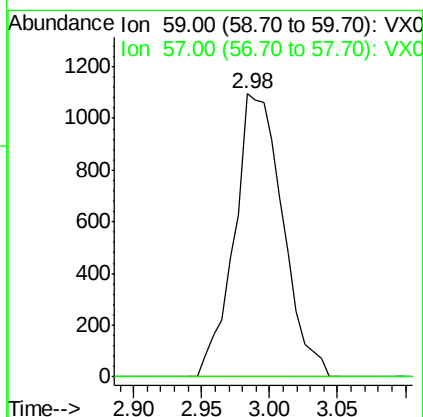
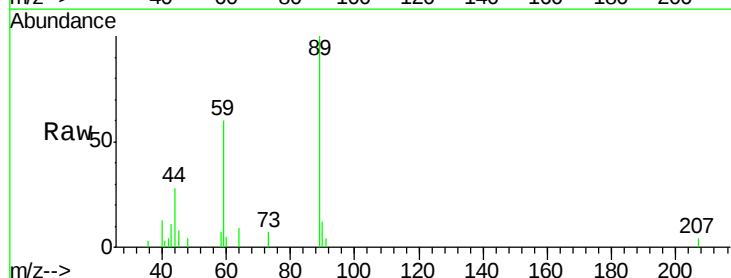
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-TB-120920

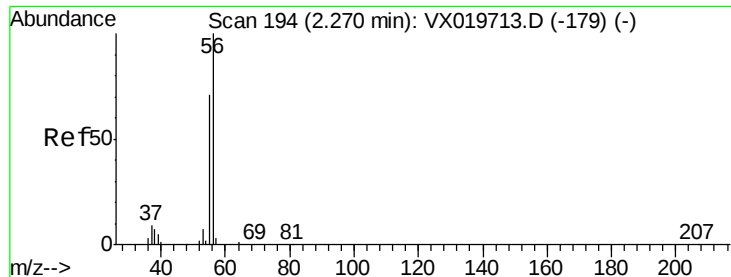
Tgt Ion:142 Resp: 2004
Ion Ratio Lower Upper
142 100
127 40.9 33.3 49.9
141 9.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.444 ug/l
RT: 2.98 min Scan# 311
Delta R.T. -0.03 min
Lab File: VX019908.D
Acq: 12 Dec 2020 05:24

Tgt Ion: 59 Resp: 2718
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#13

Acrolein

Concen: 0.709 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

Instrument :

MSVOA_X

ClientSampleId :

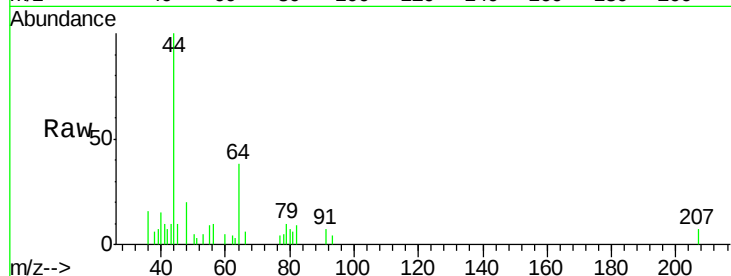
TU032-32-TB-120920

Tgt Ion: 56 Resp: 339

Ion Ratio Lower Upper

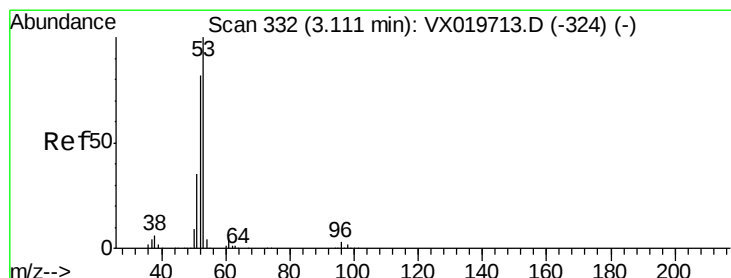
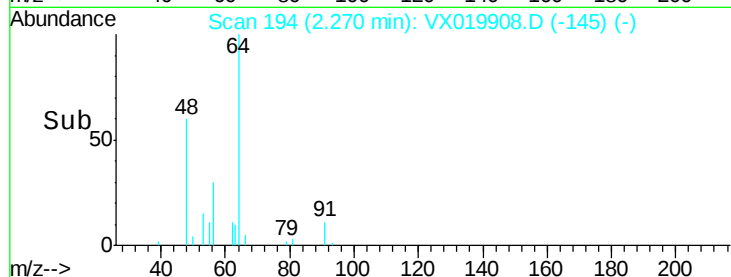
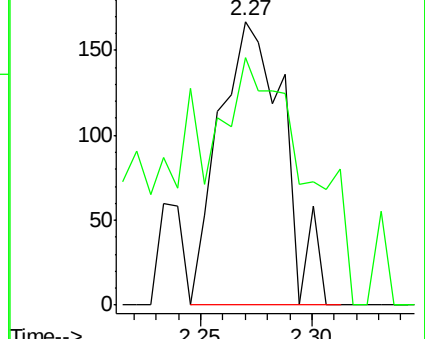
56 100

55 111.2 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.302 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

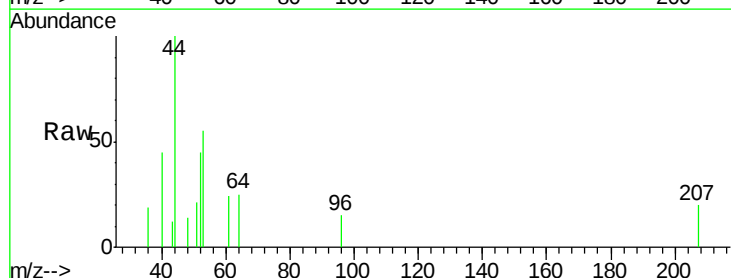
Tgt Ion: 53 Resp: 591

Ion Ratio Lower Upper

53 100

52 84.4 65.3 97.9

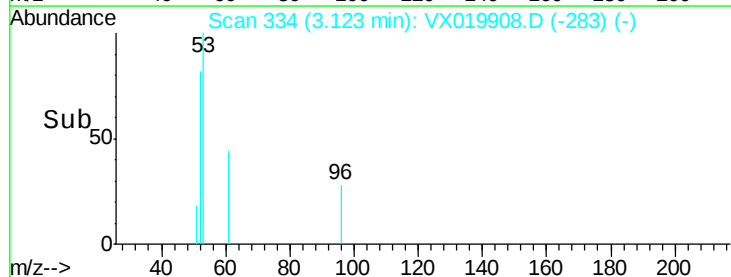
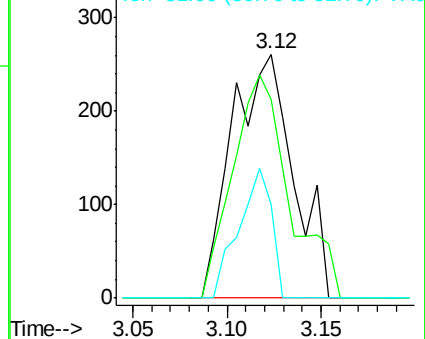
51 28.4 28.2 42.2

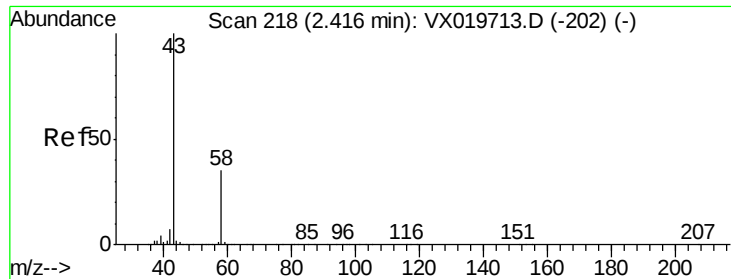


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.803 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

Instrument :

MSVOA_X

ClientSampleId :

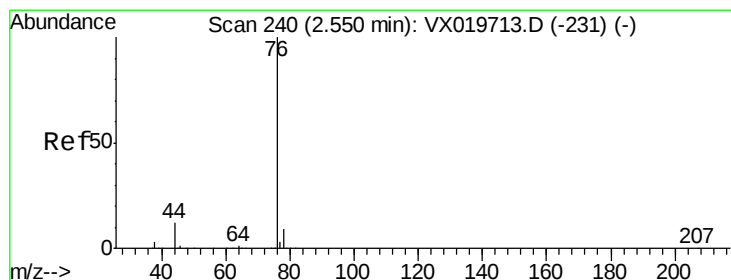
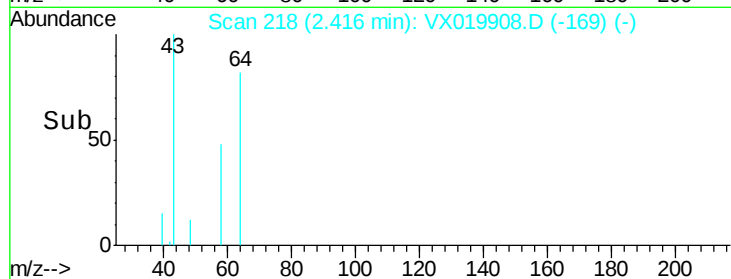
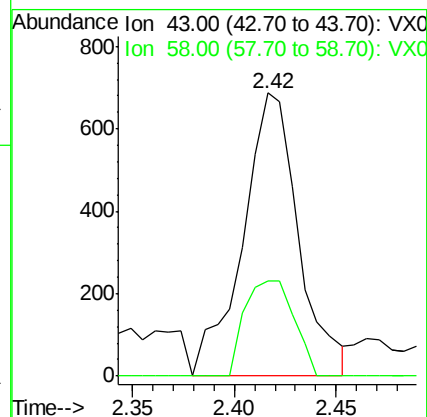
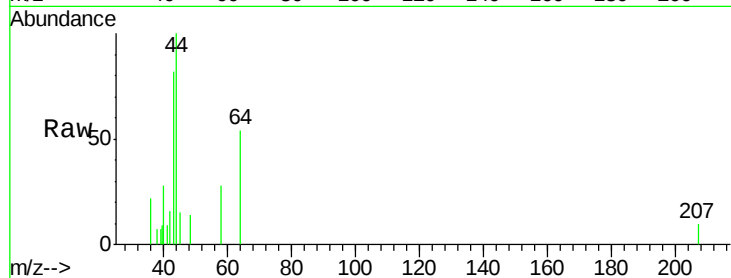
TU032-32-TB-120920

Tgt Ion: 43 Resp: 1307

Ion Ratio Lower Upper

43 100

58 33.8 27.8 41.8



#17

Carbon Disulfide

Concen: 0.233 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019908.D

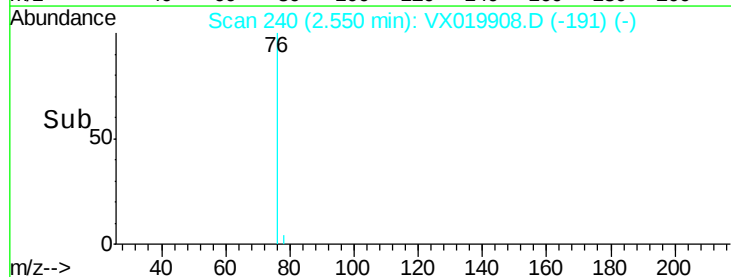
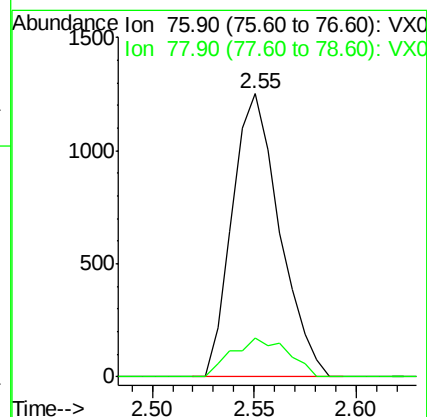
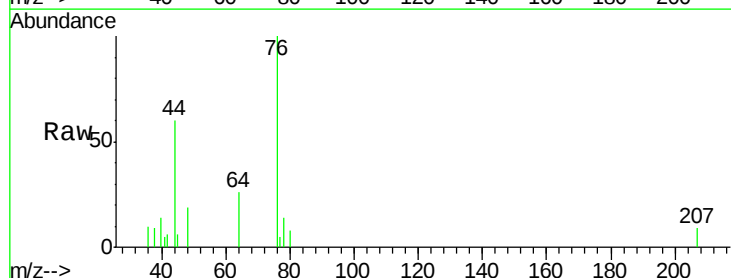
Acq: 12 Dec 2020 05:24

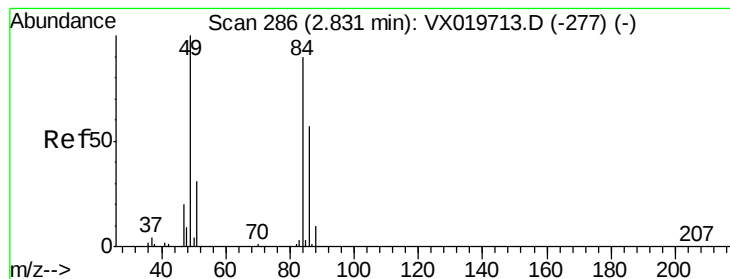
Tgt Ion: 76 Resp: 2015

Ion Ratio Lower Upper

76 100

78 13.7 7.2 10.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-TB-120920

Tgt Ion: 84 Resp: 914

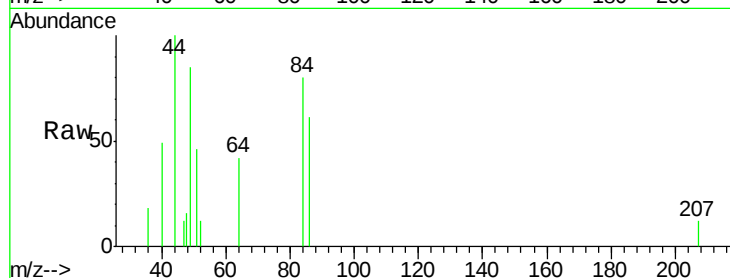
Ion Ratio Lower Upper

84 100

49 107.0 88.6 132.8

51 58.1 27.0 40.6#

86 76.4 50.3 75.5#

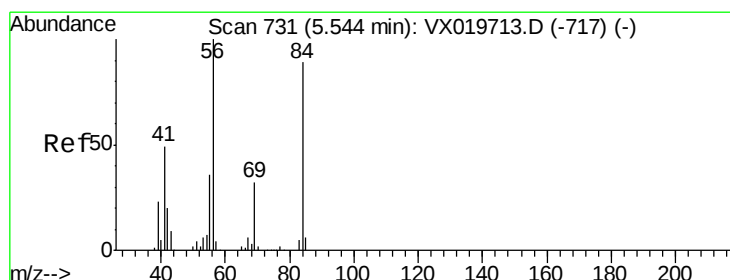
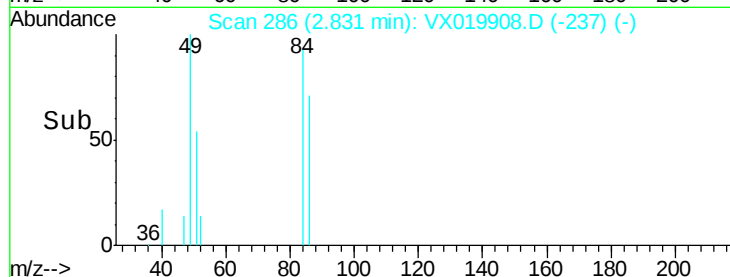
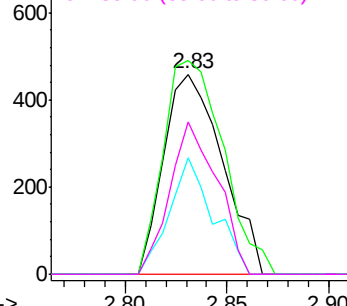


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#31

Cyclohexane

Concen: 1.227 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

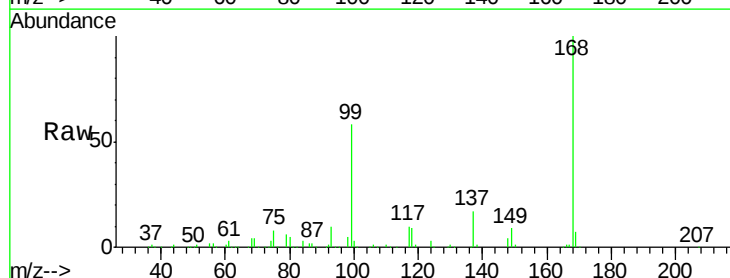
Tgt Ion: 56 Resp: 6611

Ion Ratio Lower Upper

56 100

69 178.7 25.3 37.9#

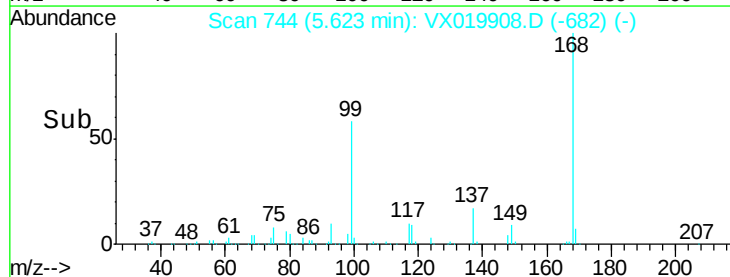
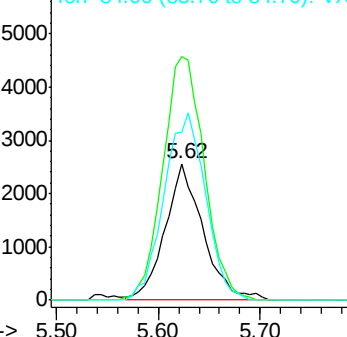
84 123.3 71.4 107.0#

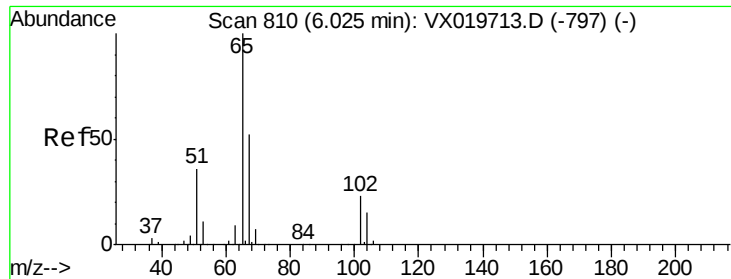


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.697 ug/l

RT: 6.03 min Scan# 810

Delta R.T. 0.00 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

Instrument :

MSVOA_X

ClientSampleId :

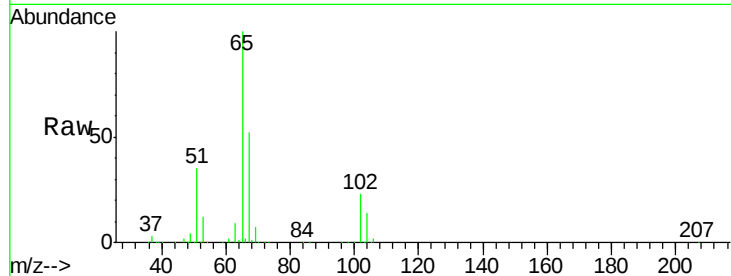
TU032-32-TB-120920

Tgt Ion: 65 Resp: 206549

Ion Ratio Lower Upper

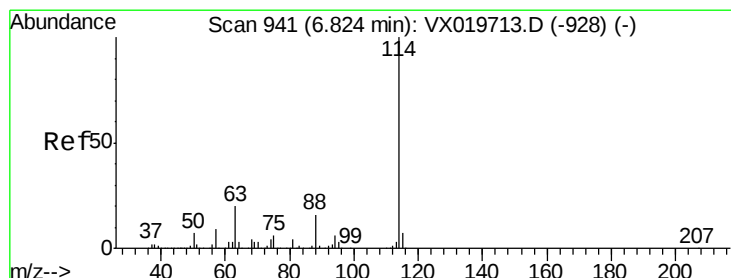
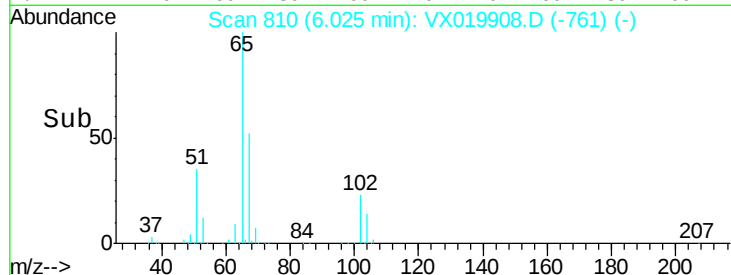
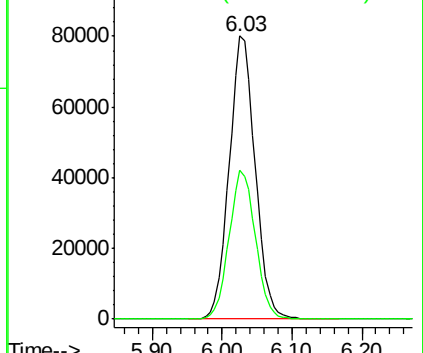
65 100

67 53.2 0.0 105.4



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. 0.01 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

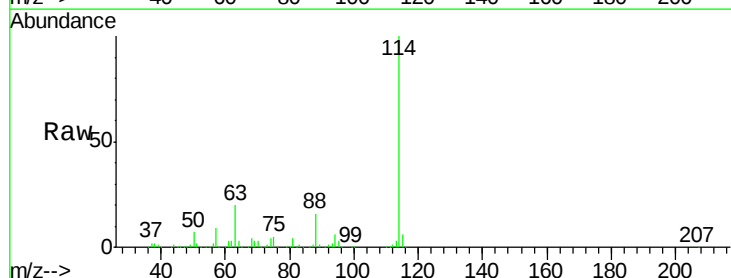
Tgt Ion: 114 Resp: 540977

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

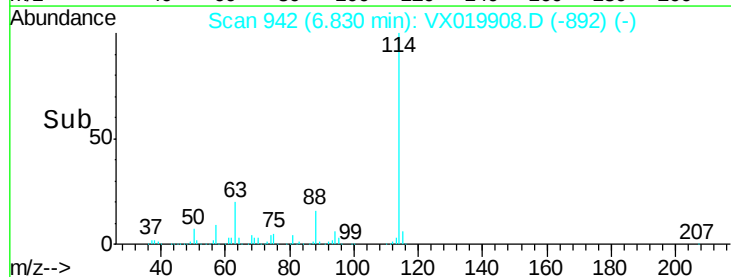
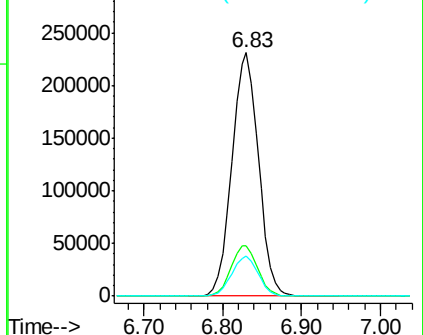
88 16.4 0.0 32.8

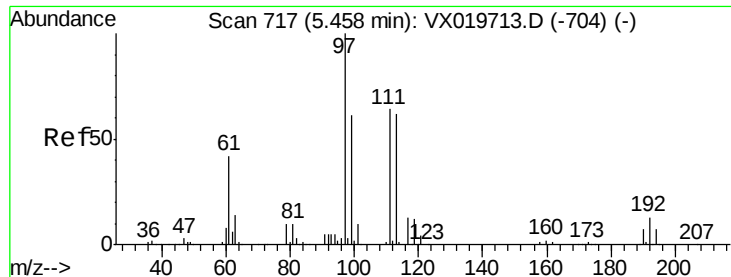


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

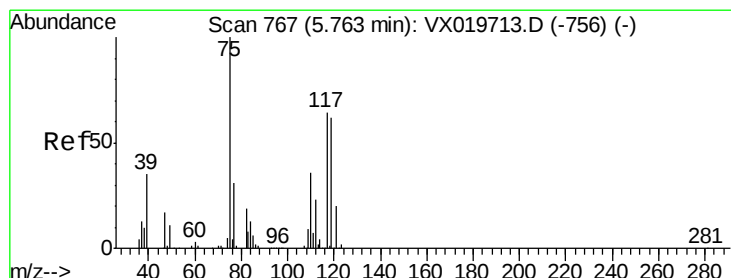
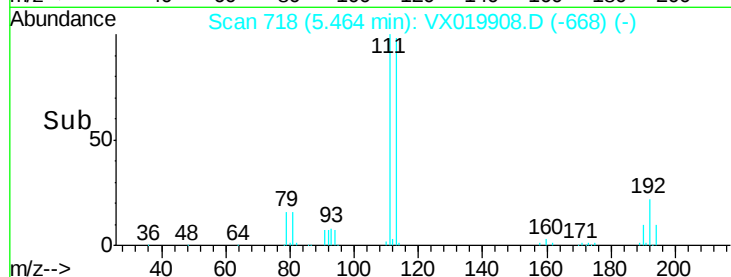
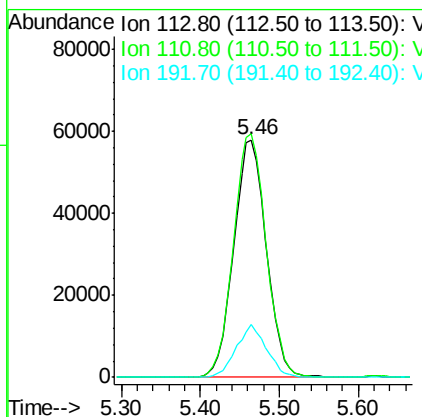
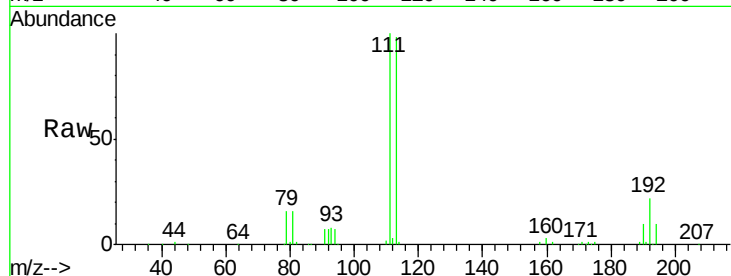




#35
 Dibromofluoromethane
 Concen: 47.662 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019908.D
 Acq: 12 Dec 2020 05:24

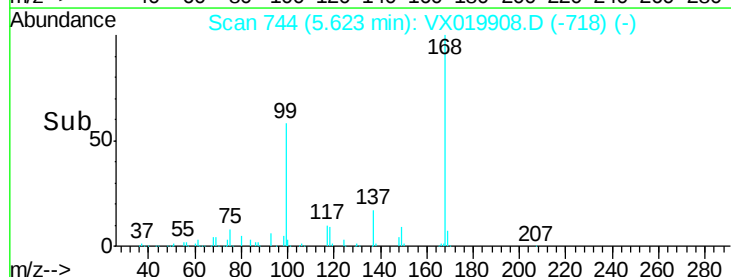
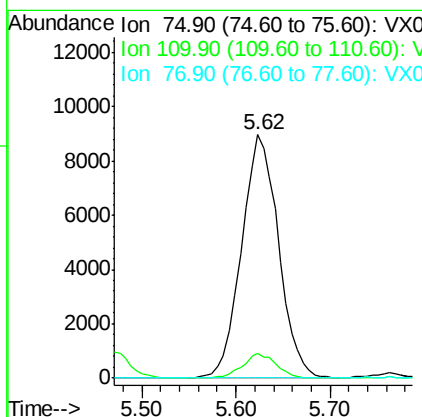
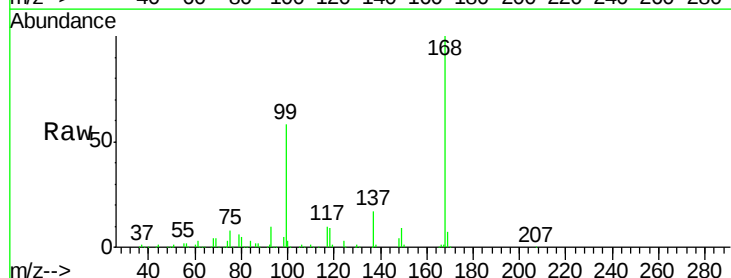
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-TB-120920

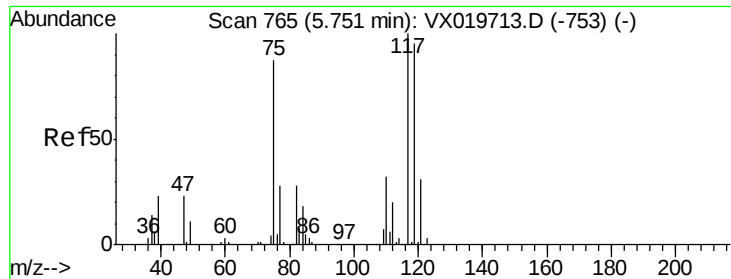
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.9	122.9
192	20.6	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 5.011 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019908.D
 Acq: 12 Dec 2020 05:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.1	54.4#
77	0.0	25.3	37.9#

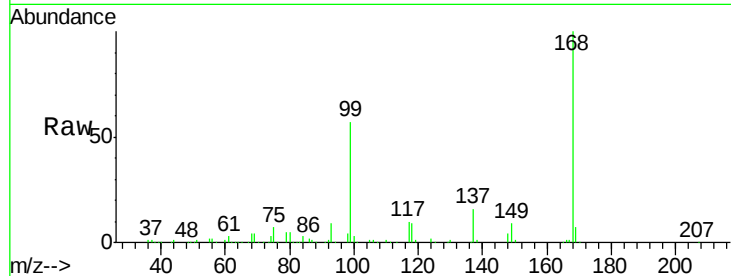




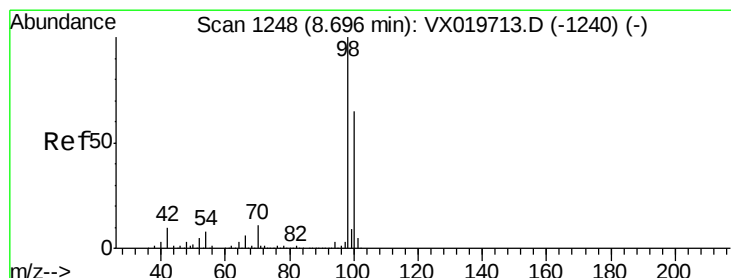
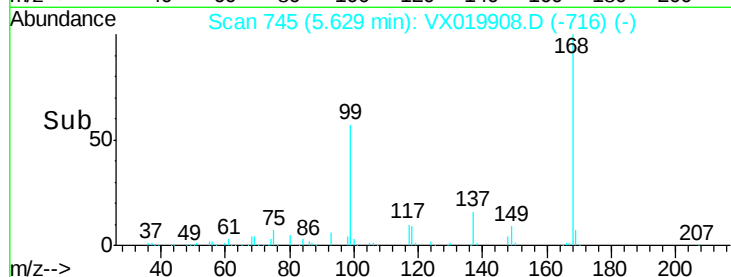
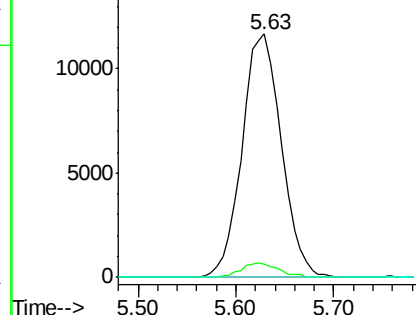
#38
Carbon Tetrachloride
Concen: 6.798 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX019908.D
Acq: 12 Dec 2020 05:24

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-TB-120920

Tgt Ion: 117 Resp: 32541
Ion Ratio Lower Upper
117 100
119 5.6 76.2 114.2#
121 0.0 24.8 37.2#

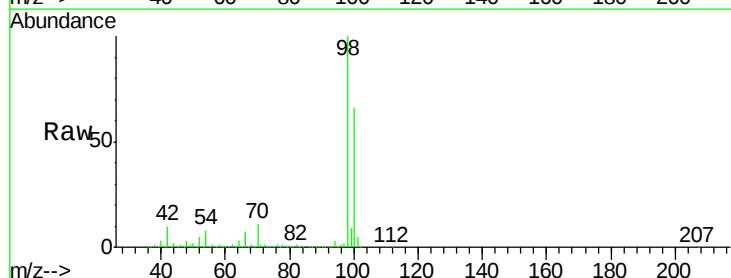


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

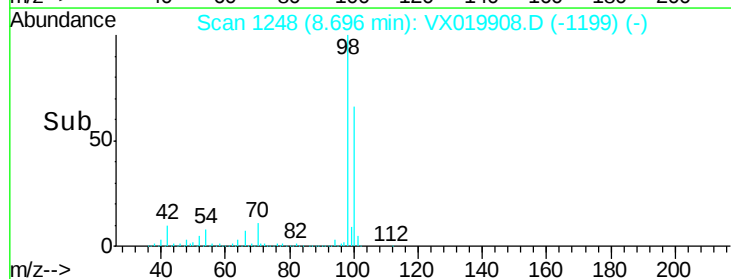
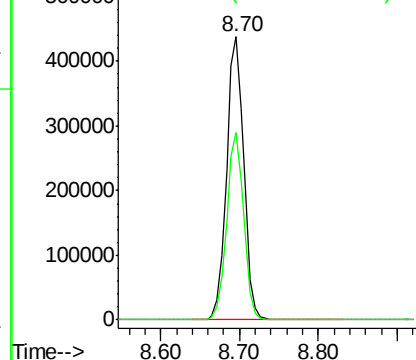


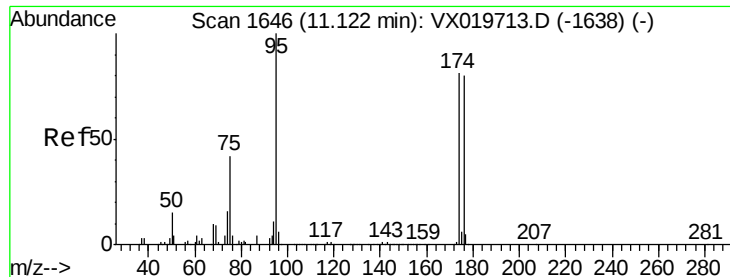
#50
Toluene-d8
Concen: 49.337 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019908.D
Acq: 12 Dec 2020 05:24

Tgt Ion: 98 Resp: 658539
Ion Ratio Lower Upper
98 100
100 65.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.988 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-TB-120920

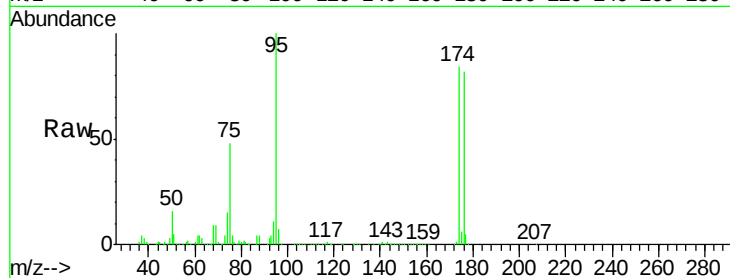
Tgt Ion: 95 Resp: 228555

Ion Ratio Lower Upper

95 100

174 78.9 0.0 154.6

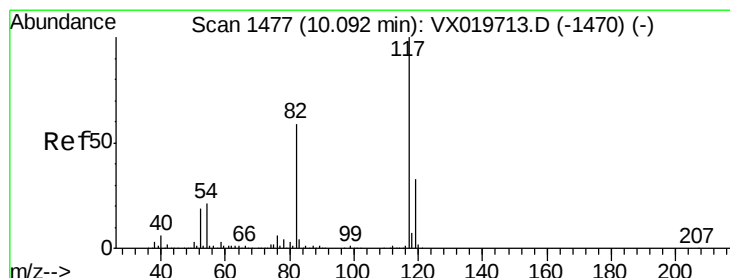
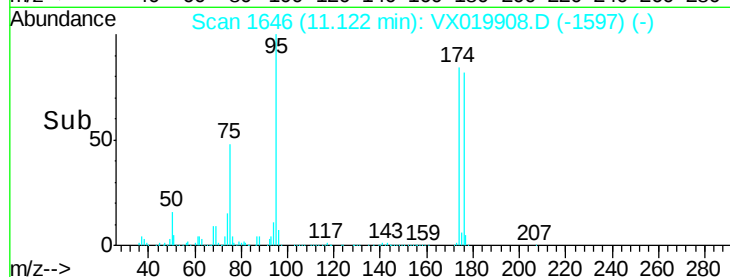
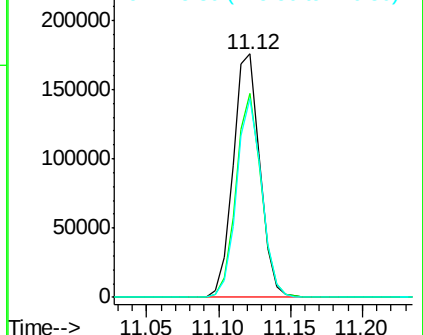
176 76.7 0.0 155.8



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: VX019908.D

Acq: 12 Dec 2020 05:24

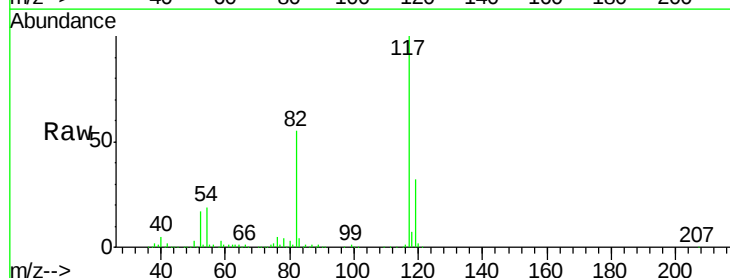
Tgt Ion: 117 Resp: 490873

Ion Ratio Lower Upper

117 100

82 55.2 47.4 71.2

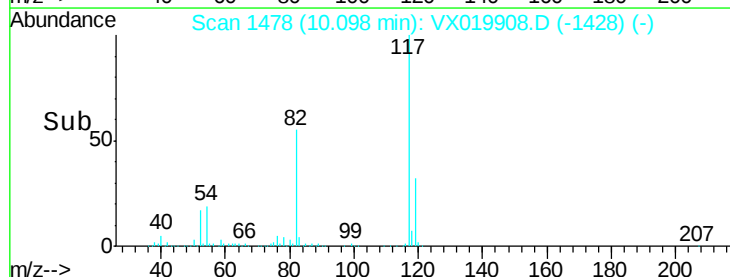
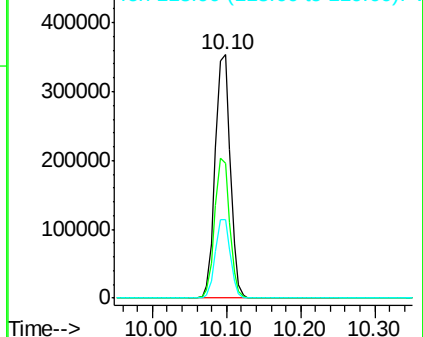
119 32.3 26.6 39.8

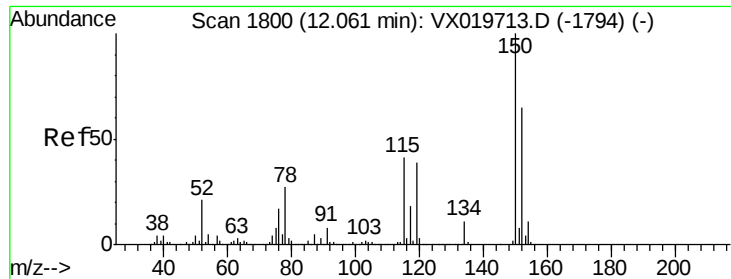


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-TB-120920

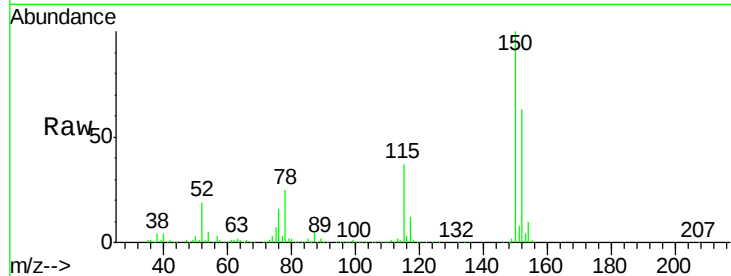
Tgt Ion:152 Resp: 210907

Ion Ratio Lower Upper

152 100

115 60.5 41.1 123.3

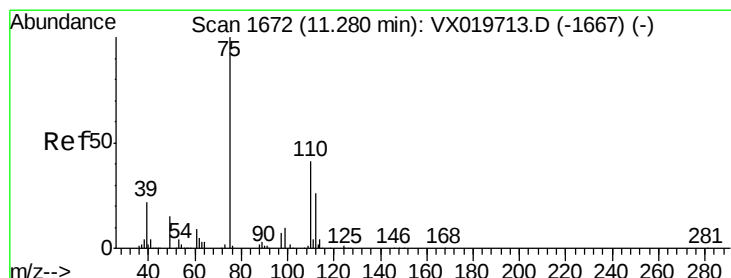
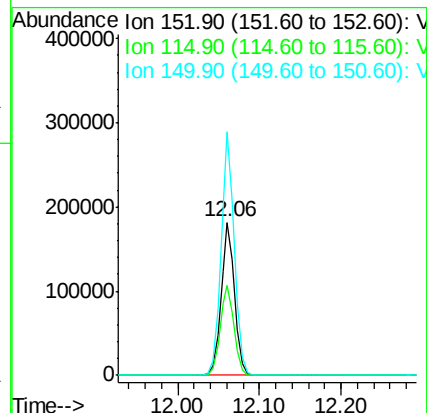
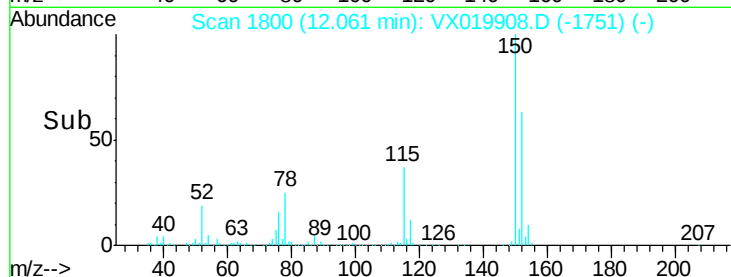
150 157.3 0.0 349.0



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: 23.520 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019908.D

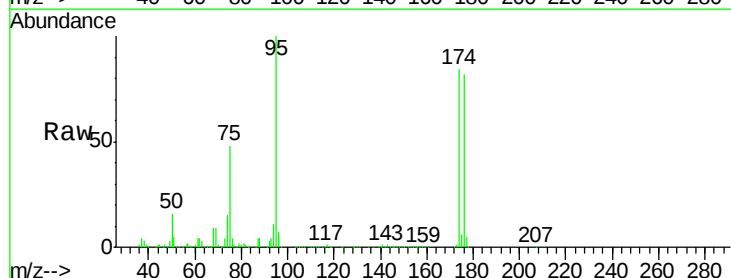
Acq: 12 Dec 2020 05:24

Tgt Ion: 75 Resp: 111258

Ion Ratio Lower Upper

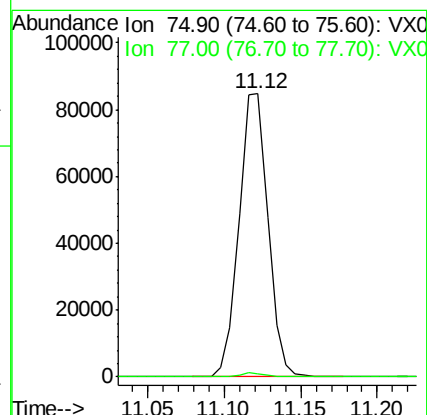
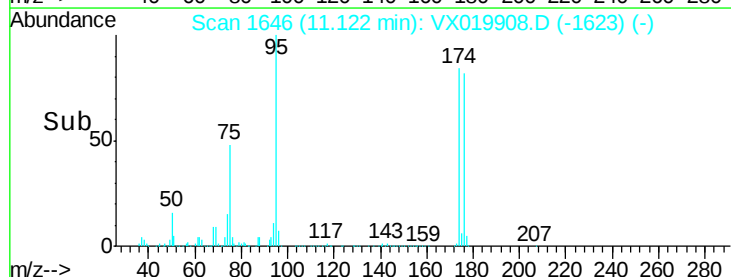
75 100

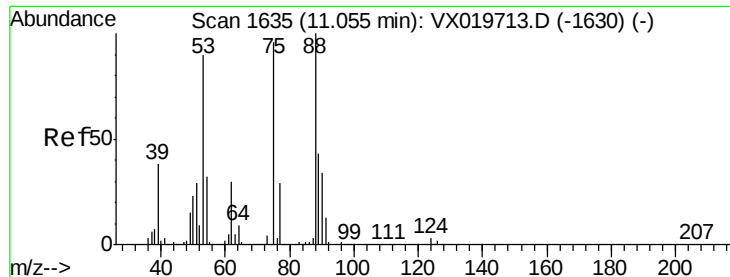
77 1.2 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

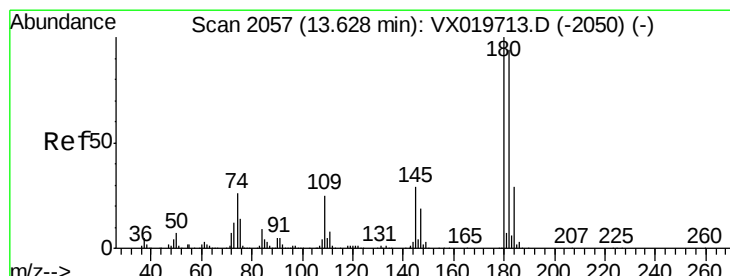
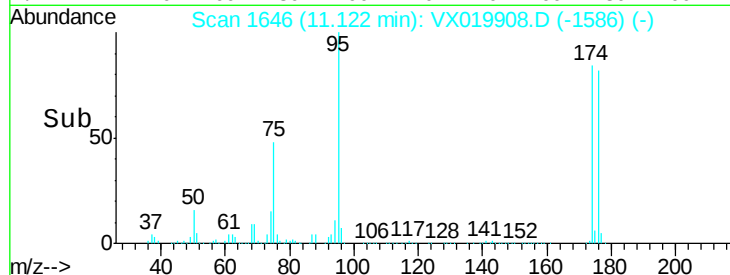
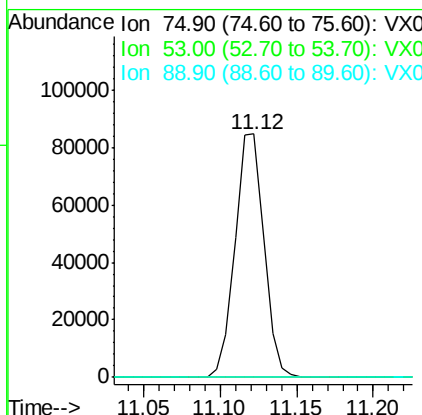
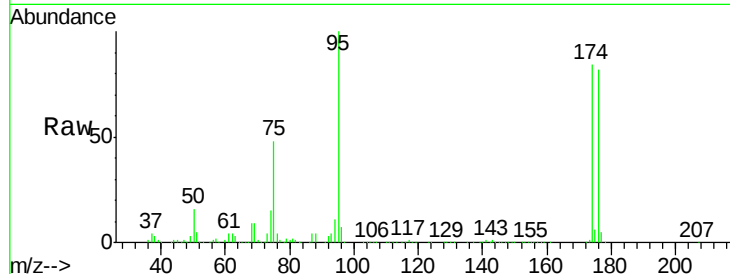




#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.993 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019908.D
 Acq: 12 Dec 2020 05:24

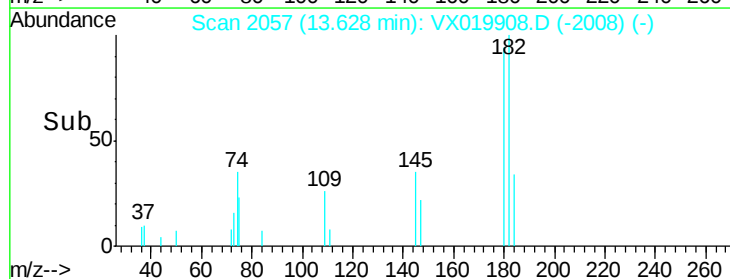
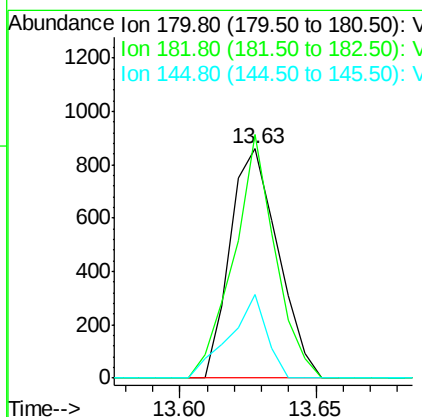
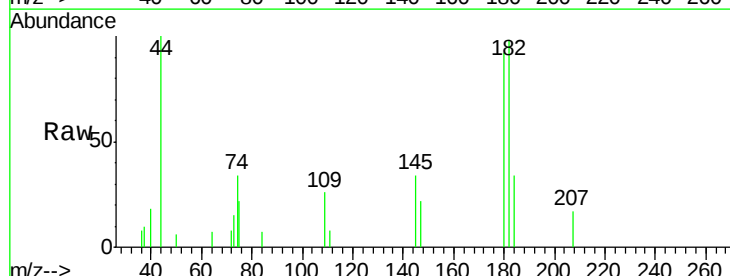
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-TB-120920

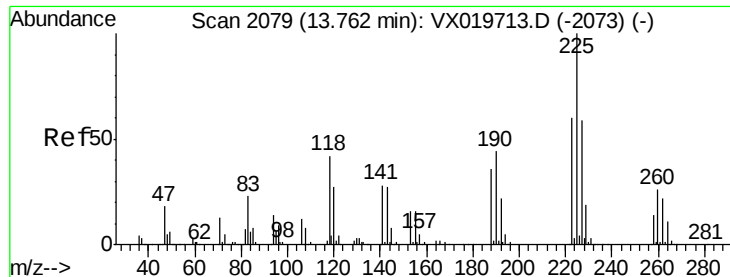
Tgt Ion: 75 Resp: 111258
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.244 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX019908.D
 Acq: 12 Dec 2020 05:24

Tgt Ion:180 Resp: 1050
 Ion Ratio Lower Upper
 180 100
 182 91.9 47.7 143.1
 145 28.5 15.0 45.0





#94

Hexachlorobutadiene

Concen: 0.233 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-TB-120920

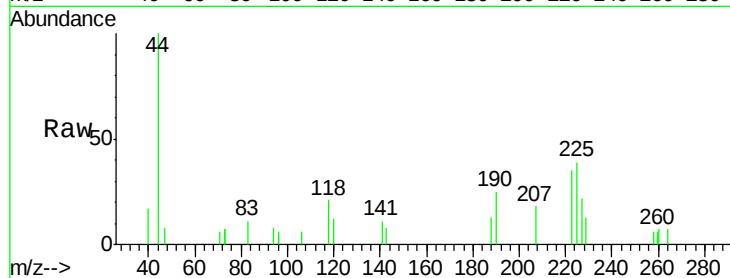
Tgt Ion:225 Resp: 447

Ion Ratio Lower Upper

225 100

223 75.6 31.1 93.2

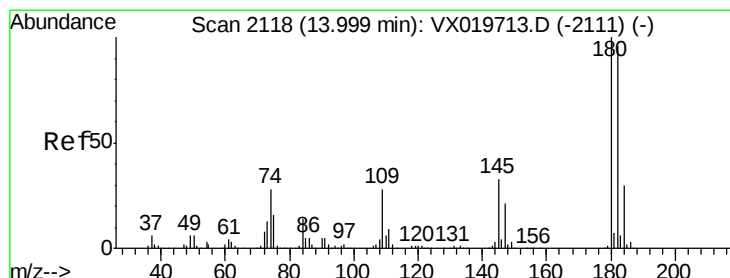
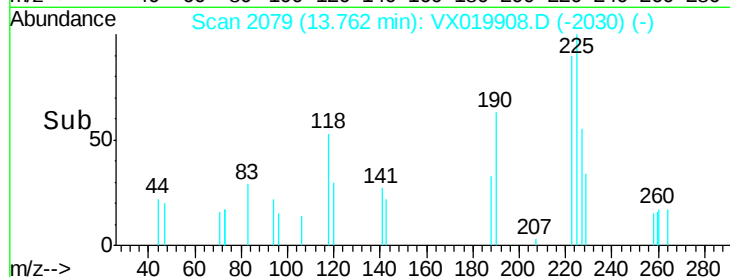
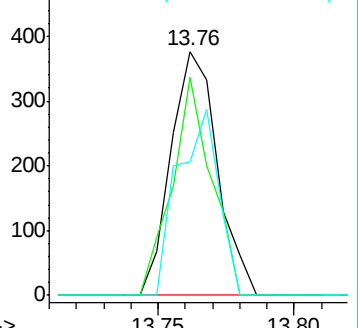
227 66.9 31.6 95.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.220 ug/l

RT: 14.00 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VX019908.D

Acq: 12 Dec 2020 05:24

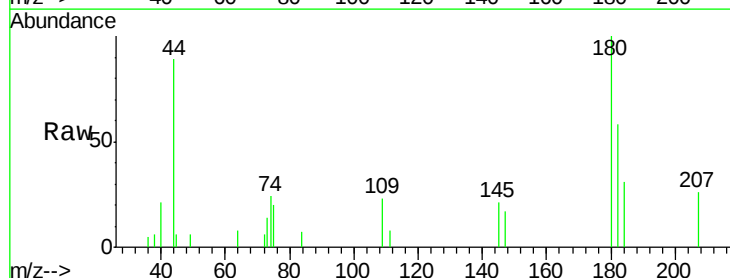
Tgt Ion:180 Resp: 925

Ion Ratio Lower Upper

180 100

182 97.3 47.6 142.9

145 25.7 16.1 48.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

