

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020009.D
 Acq On : 15 Dec 2020 14:15
 Operator : JC/MD
 Sample : L5052-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5227-121020

Quant Time: Dec 16 00:23:59 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	5.62	168	308040	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	515821	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	470986	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	204090	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	196632	48.57	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.14%	
35) Dibromofluoromethane		5.46	113	159609	47.88	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.76%	
50) Toluene-d8		8.70	98	620069	48.72	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.44%	
62) 4-Bromofluorobenzene		11.12	95	221067	45.64	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.28%	

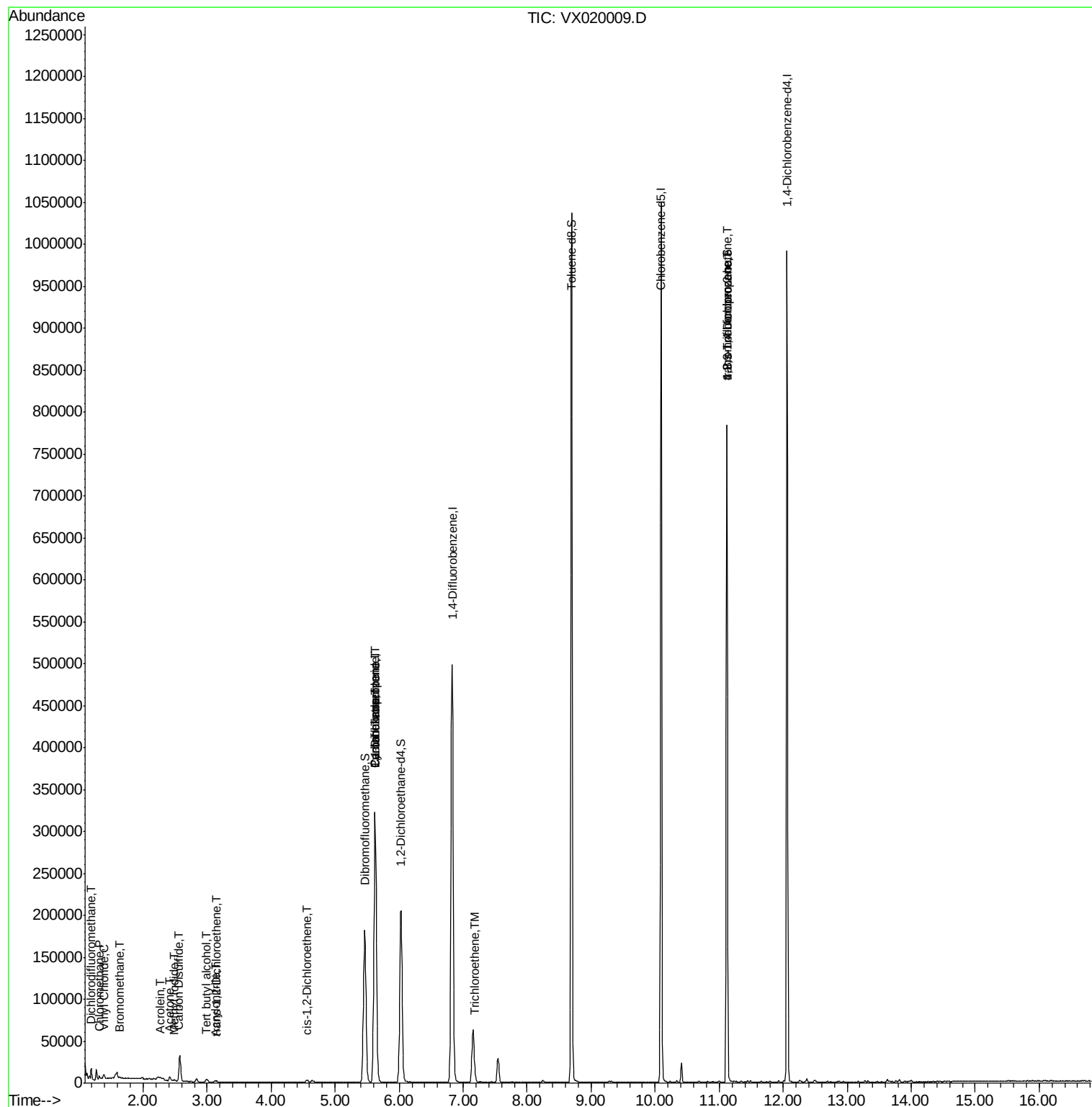
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	3827	1.357	ug/l	97
3) Chloromethane	1.31	50	1778	0.536	ug/l	96
4) Vinyl Chloride	1.39	62	1511	0.432	ug/l #	80
5) Bromomethane	1.64	94	790	0.680	ug/l #	61
10) Methyl Iodide	2.50	142	2160	0.525	ug/l	99
11) Tert butyl alcohol	3.00	59	2346	0.208	ug/l #	73
13) Acrolein	2.27	56	390	0.873	ug/l #	61
15) Acrylonitrile	3.12	53	507	0.277	ug/l	94
16) Acetone	2.42	43	5115	3.361	ug/l	100
17) Carbon Disulfide	2.55	76	1931	0.238	ug/l #	75
20) Methylene Chloride	2.83	84	1688	Below Cal	#	95
21) trans-1,2-Dichloroethene	3.14	96	818	0.249	ug/l #	81
27) cis-1,2-Dichloroethene	4.56	96	1850	0.480	ug/l	97
31) Cyclohexane	5.62	56	6479	1.287	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24022	5.154	ug/l #	49
38) Carbon Tetrachloride	5.63	117	30661	6.717	ug/l #	16
44) Trichloroethene	7.18	130	1027	0.275	ug/l	87
76) 1,2,3-Trichloropropane	11.12	75	107278	23.437	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107278	67.751	ug/l #	12

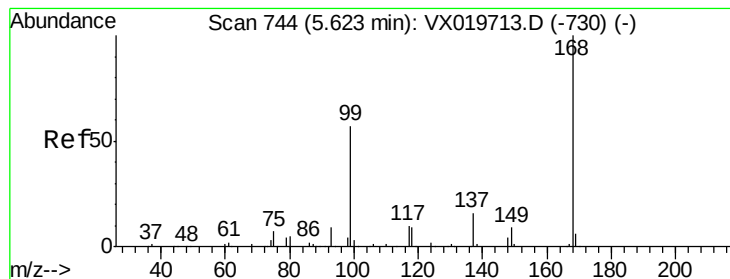
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
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Quant Time: Dec 16 00:23:59 2020
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: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

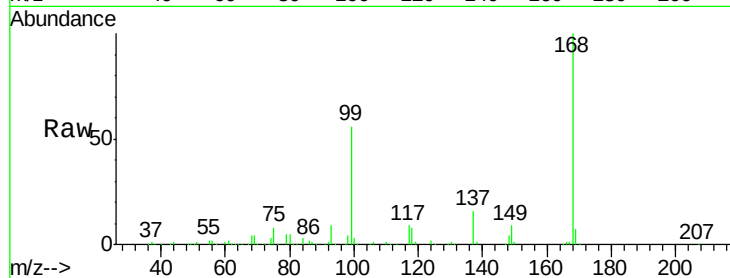
TU032-32-5227-121020

Tgt Ion:168 Resp: 308040

Ion Ratio Lower Upper

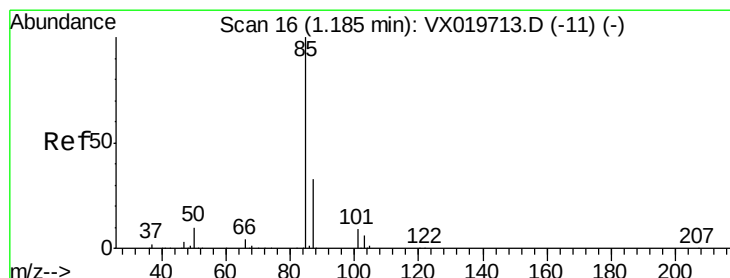
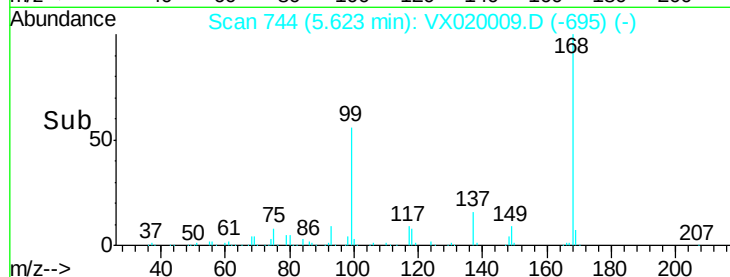
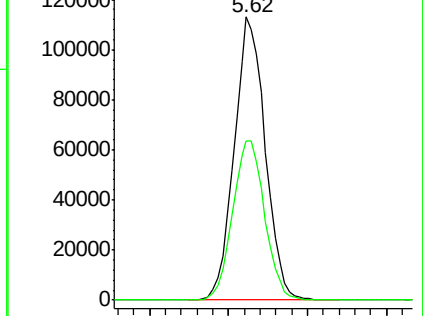
168 100

99 56.2 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: 1.357 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX020009.D

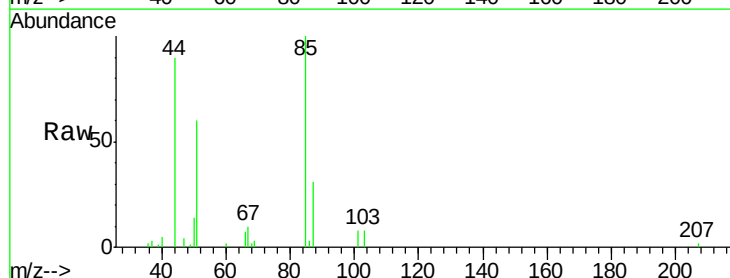
Acq: 15 Dec 2020 14:15

Tgt Ion: 85 Resp: 3827

Ion Ratio Lower Upper

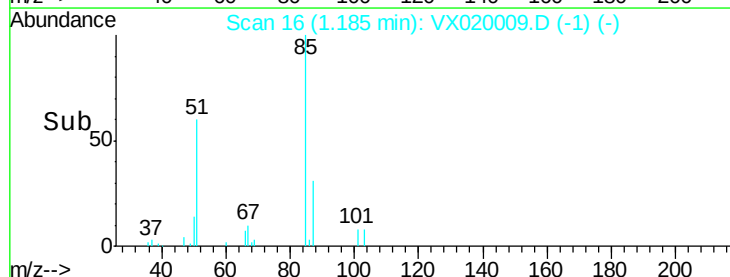
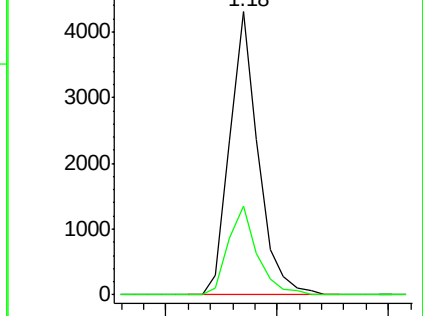
85 100

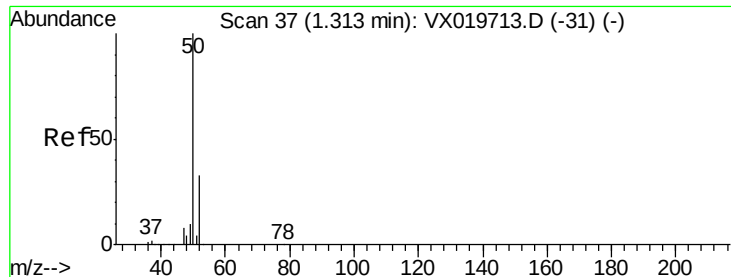
87 31.3 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.536 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

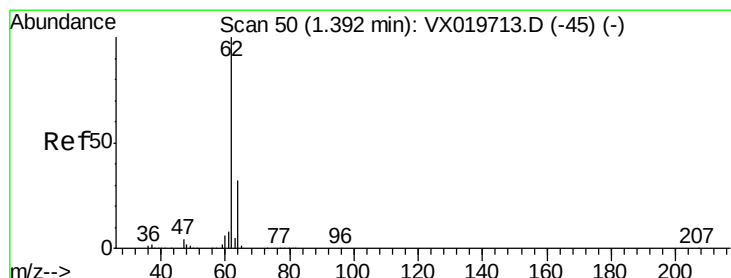
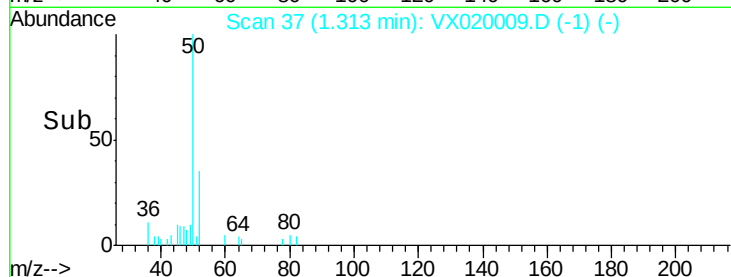
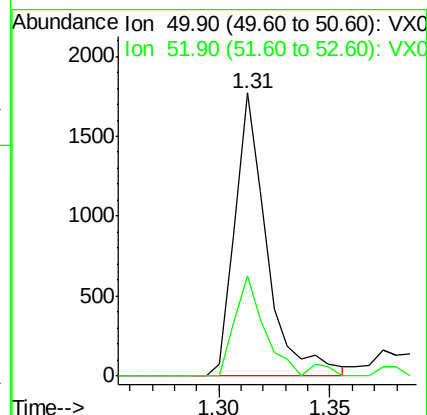
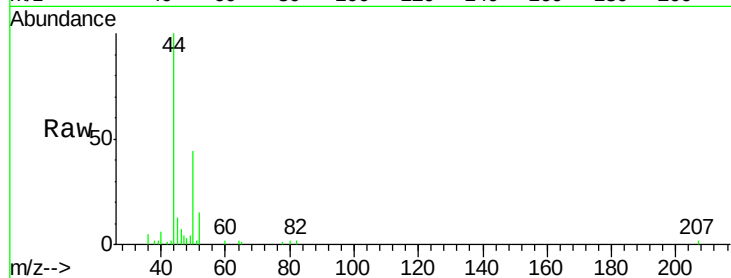
TU032-32-5227-121020

Tgt Ion: 50 Resp: 1778

Ion Ratio Lower Upper

50 100

52 35.4 26.4 39.6



#4

Vinyl Chloride

Concen: 0.432 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX020009.D

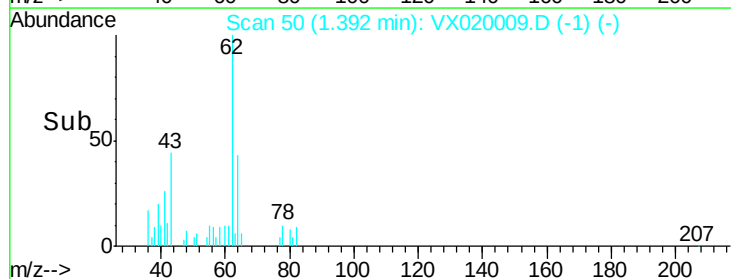
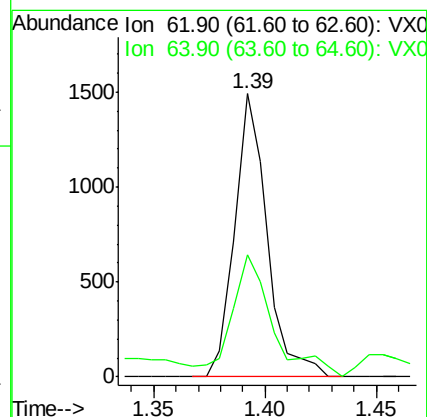
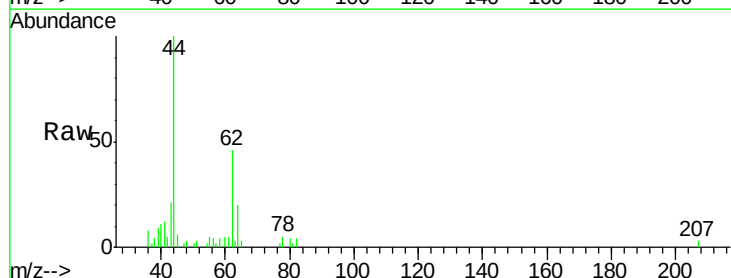
Acq: 15 Dec 2020 14:15

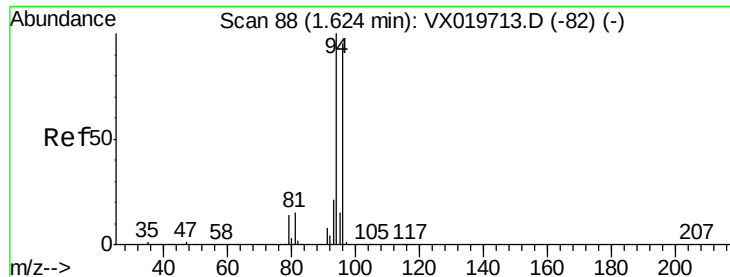
Tgt Ion: 62 Resp: 1511

Ion Ratio Lower Upper

62 100

64 43.3 25.7 38.5#





#5

Bromomethane

Concen: 0.680 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

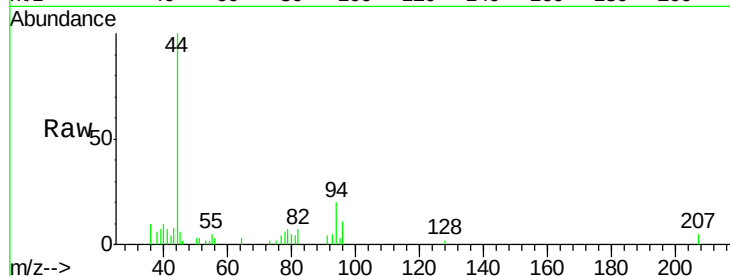
TU032-32-5227-121020

Tgt Ion: 94 Resp: 790

Ion Ratio Lower Upper

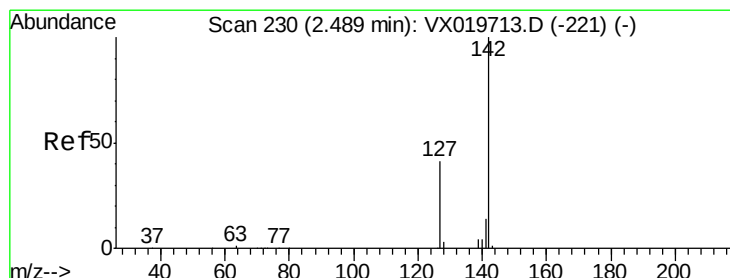
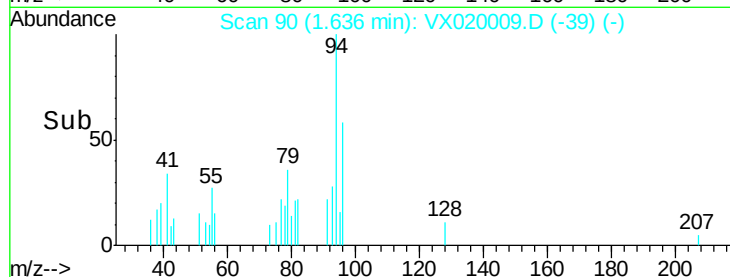
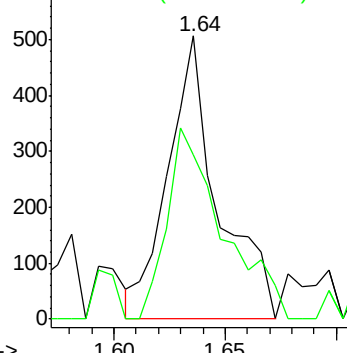
94 100

96 57.9 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: 0.525 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

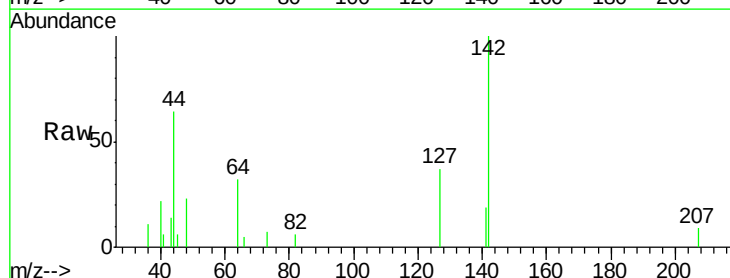
Tgt Ion:142 Resp: 2160

Ion Ratio Lower Upper

142 100

127 41.8 33.3 49.9

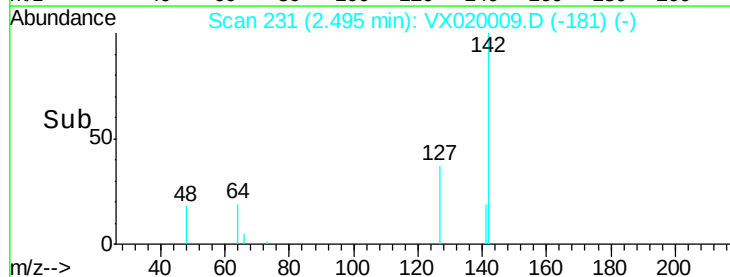
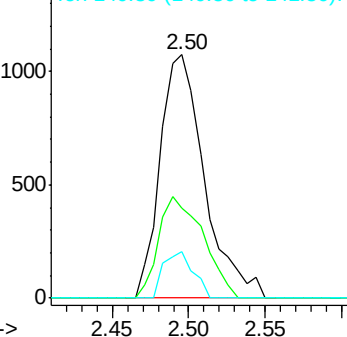
141 12.7 11.4 17.0

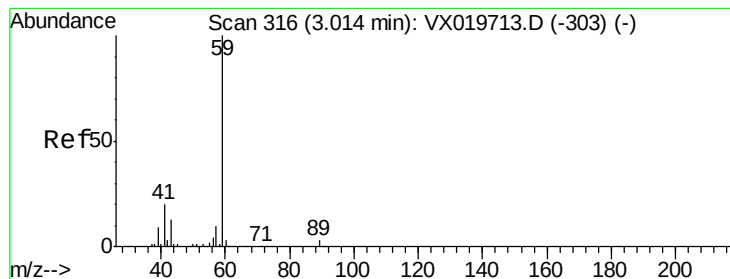


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 0.208 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

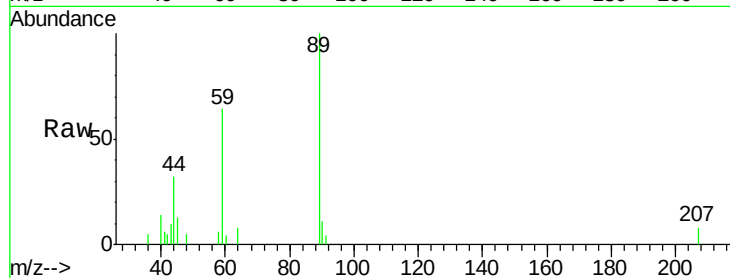
TU032-32-5227-121020

Tgt Ion: 59 Resp: 2346

Ion Ratio Lower Upper

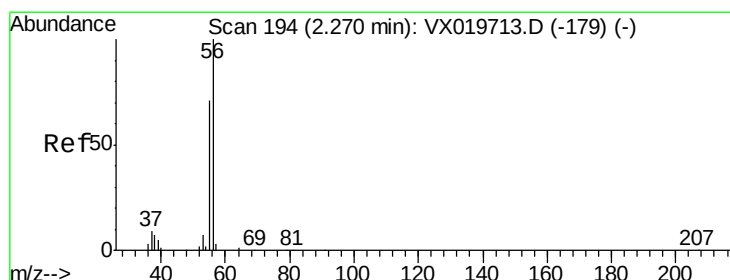
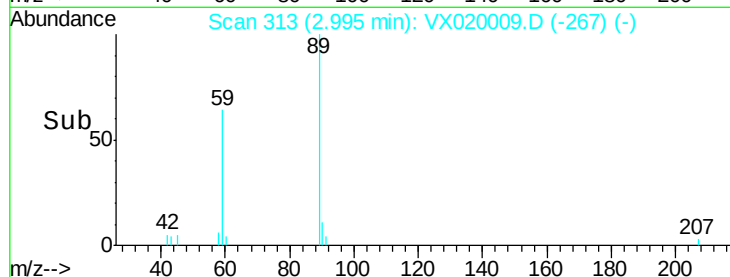
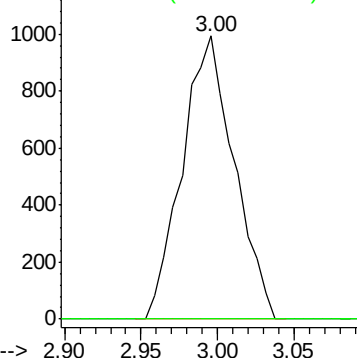
59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.873 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX020009.D

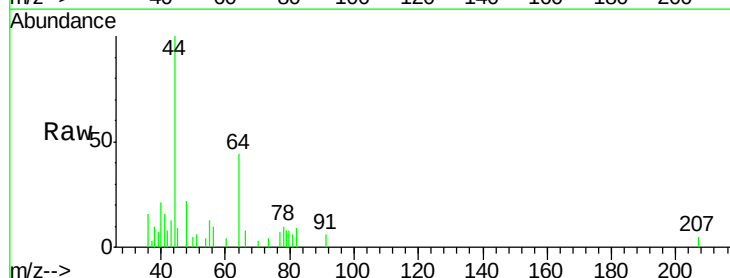
Acq: 15 Dec 2020 14:15

Tgt Ion: 56 Resp: 390

Ion Ratio Lower Upper

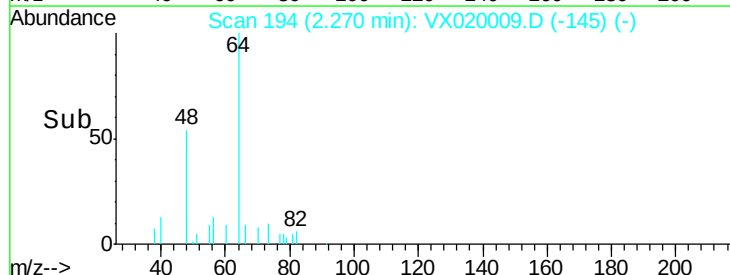
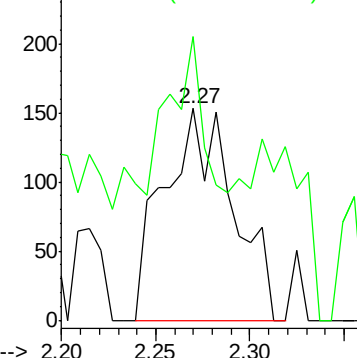
56 100

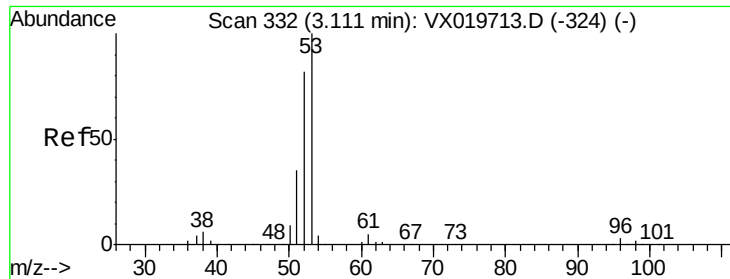
55 38.5 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

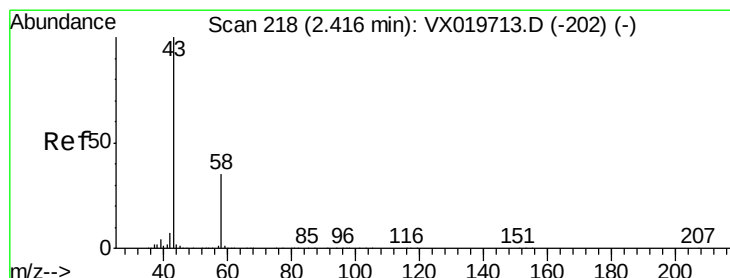
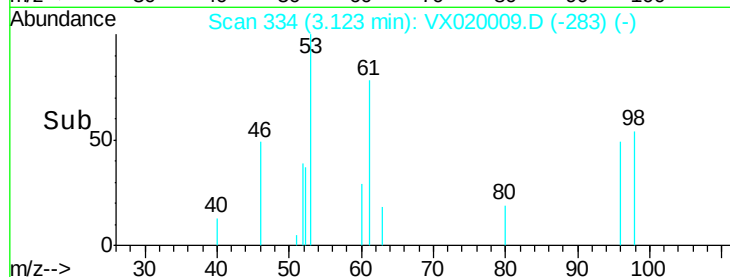
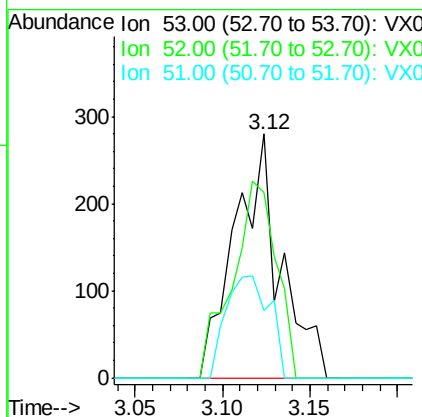
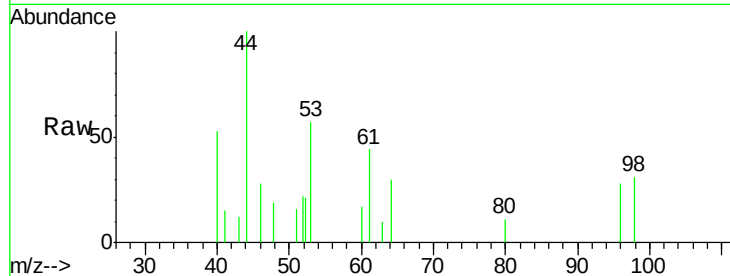




#15
 Acrylonitrile
 Concen: 0.277 ug/l
 RT: 3.12 min Scan# 334
 Delta R.T. 0.01 min
 Lab File: VX020009.D
 Acq: 15 Dec 2020 14:15

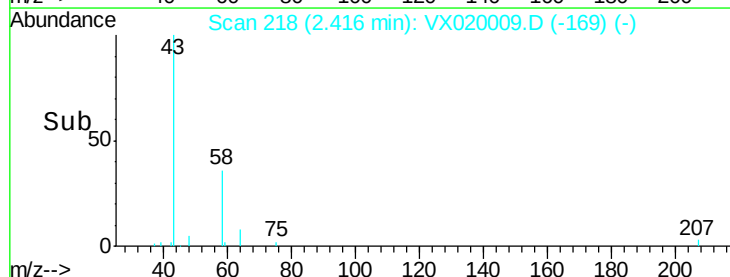
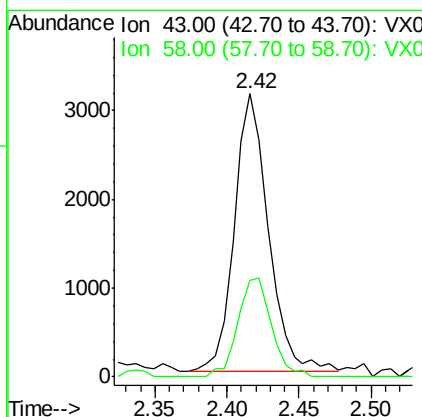
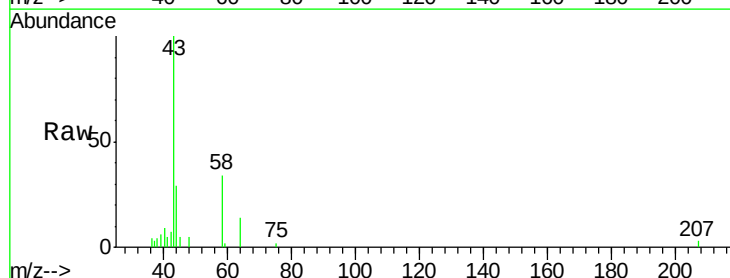
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 TU032-32-5227-121020

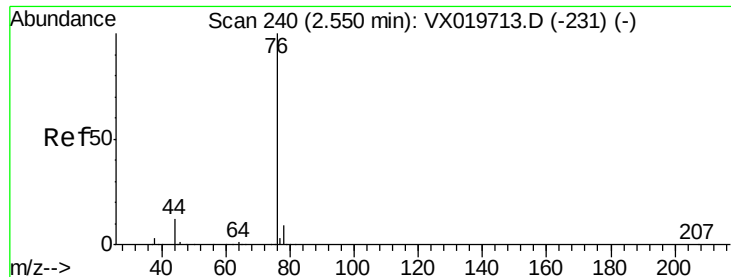
Tgt Ion: 53 Resp: 507
 Ion Ratio Lower Upper
 53 100
 52 77.7 65.3 97.9
 51 40.2 28.2 42.2



#16
 Acetone
 Concen: 3.361 ug/l
 RT: 2.42 min Scan# 218
 Delta R.T. -0.00 min
 Lab File: VX020009.D
 Acq: 15 Dec 2020 14:15

Tgt Ion: 43 Resp: 5115
 Ion Ratio Lower Upper
 43 100
 58 34.8 27.8 41.8





#17

Carbon Disulfide

Concen: 0.238 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

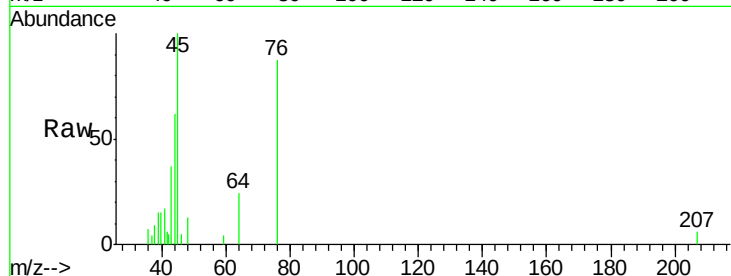
TU032-32-5227-121020

Tgt Ion: 76 Resp: 1931

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1500

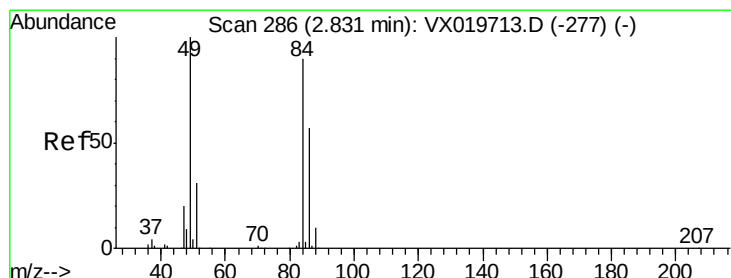
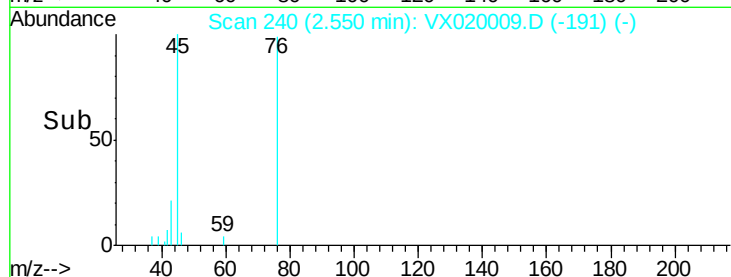
1000

500

0

2.50 2.55 2.60

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Tgt Ion: 84 Resp: 1688

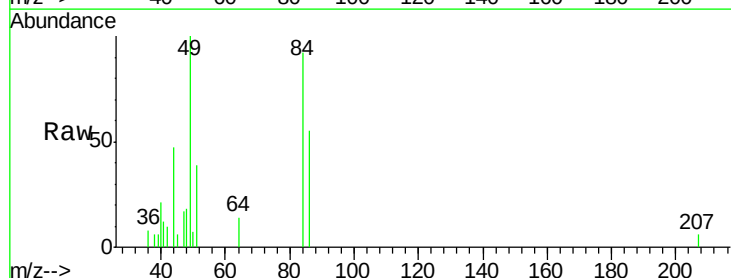
Ion Ratio Lower Upper

84 100

49 108.2 88.6 132.8

51 42.7 27.0 40.6#

86 59.5 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

1500

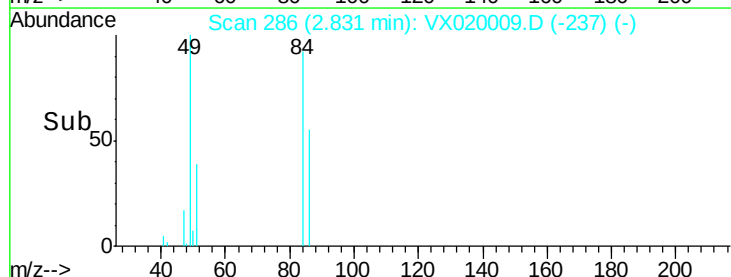
1000

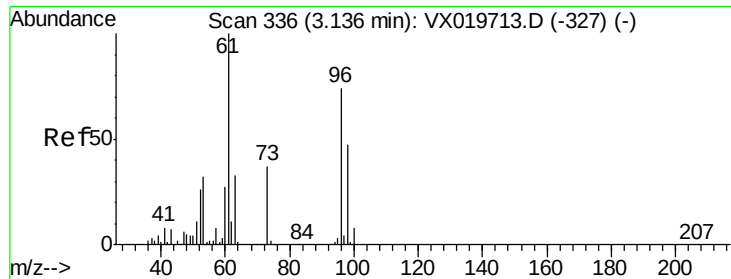
500

0

2.75 2.80 2.85 2.90

Time-->

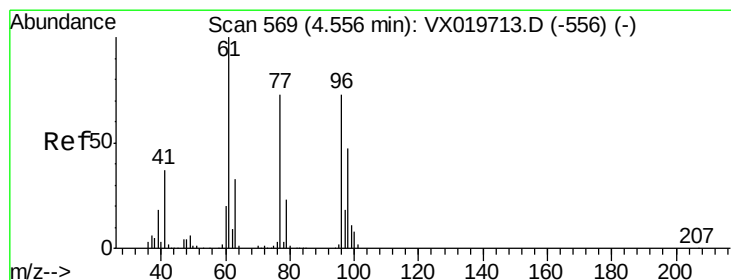
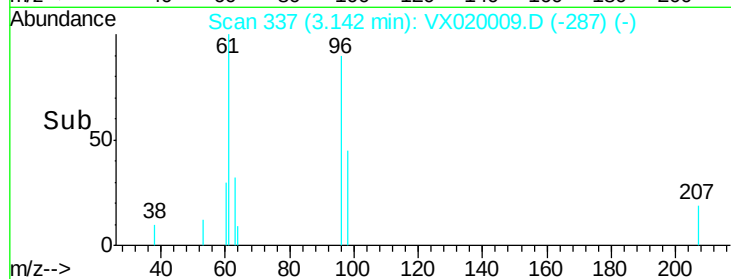
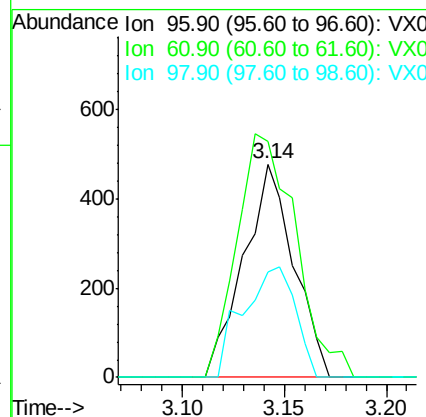
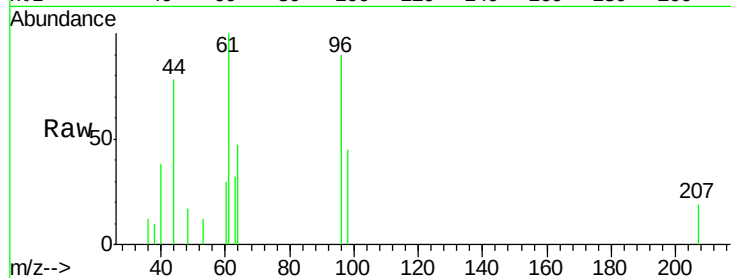




#21
trans-1,2-Dichloroethene
Concen: 0.249 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX020009.D
Acq: 15 Dec 2020 14:15

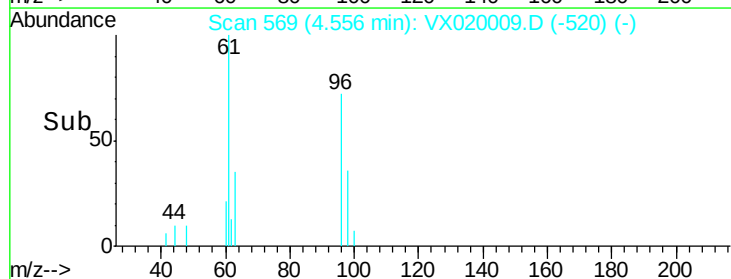
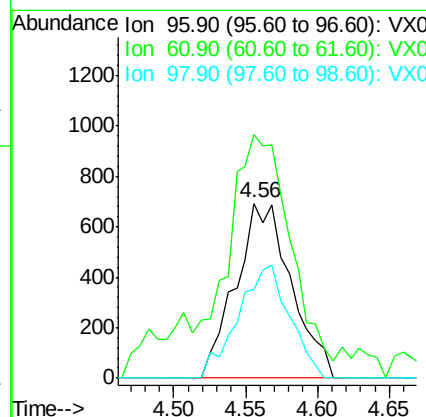
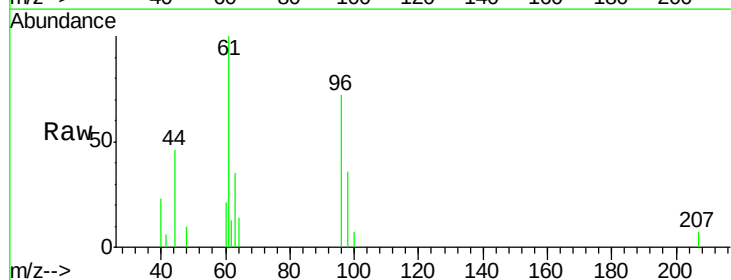
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5227-121020

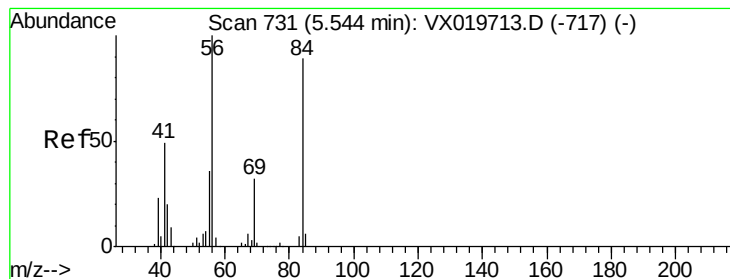
Tgt Ion: 96 Resp: 818
Ion Ratio Lower Upper
96 100
61 110.7 107.7 161.5
98 49.4 50.4 75.6#



#27
cis-1,2-Dichloroethene
Concen: 0.480 ug/l
RT: 4.56 min Scan# 569
Delta R.T. -0.00 min
Lab File: VX020009.D
Acq: 15 Dec 2020 14:15

Tgt Ion: 96 Resp: 1850
Ion Ratio Lower Upper
96 100
61 144.3 0.0 285.6
98 60.2 0.0 129.6





#31

Cyclohexane

Concen: 1.287 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

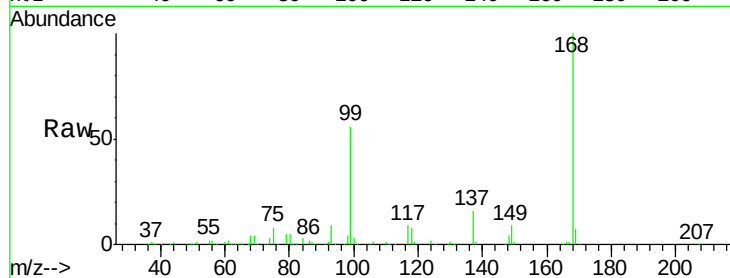
Tgt Ion: 56 Resp: 6479

Ion Ratio Lower Upper

56 100

69 185.2 25.3 37.9#

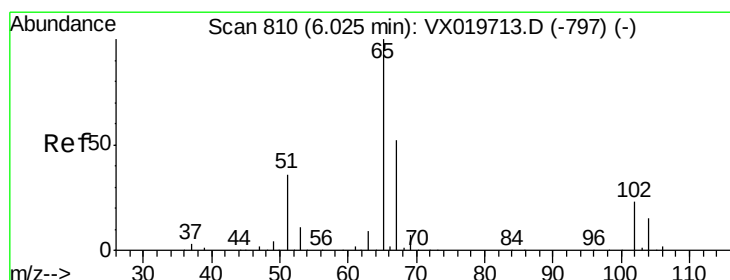
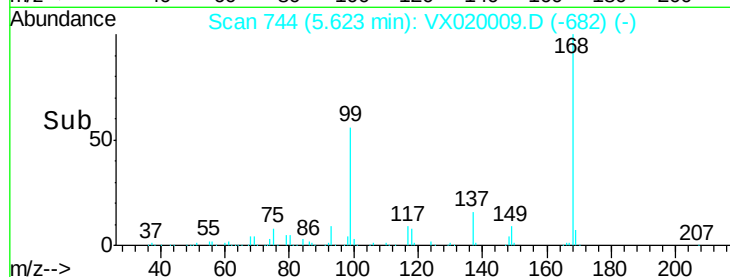
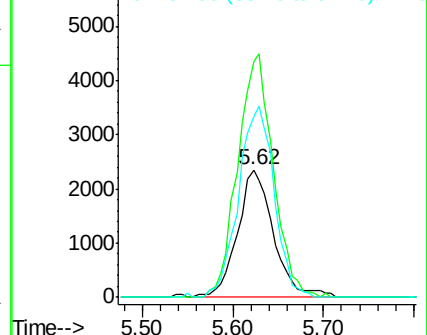
84 141.9 71.4 107.0#



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: 48.569 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.00 min

Lab File: VX020009.D

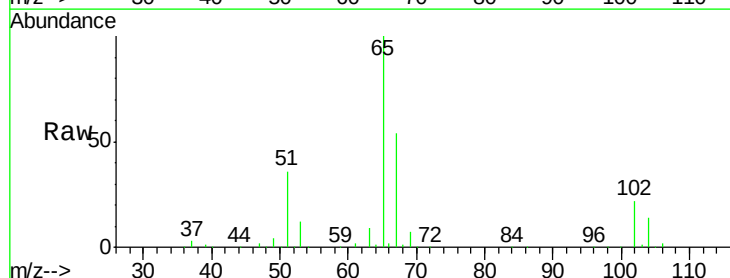
Acq: 15 Dec 2020 14:15

Tgt Ion: 65 Resp: 196632

Ion Ratio Lower Upper

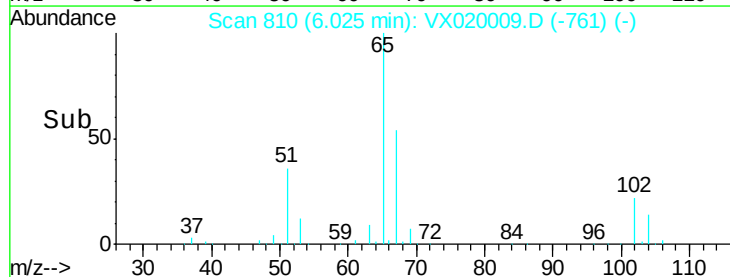
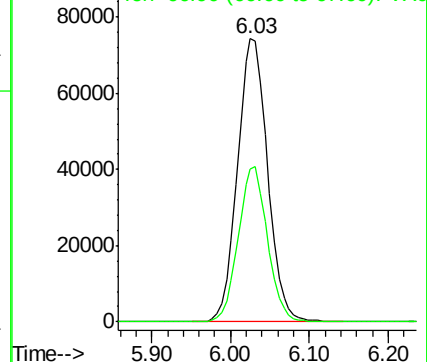
65 100

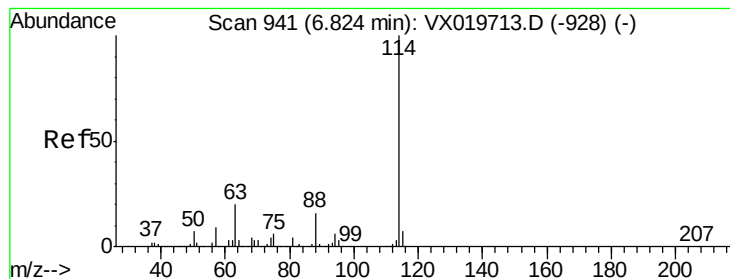
67 53.4 0.0 105.4



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: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

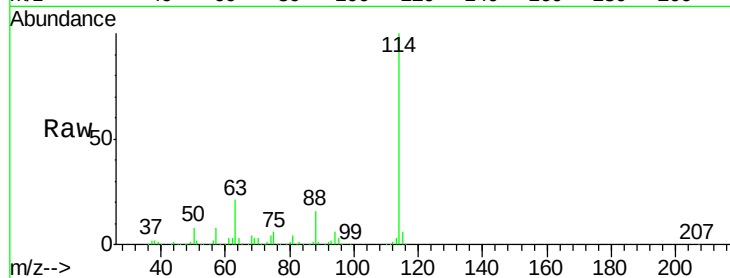
Tgt Ion:114 Resp: 515821

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

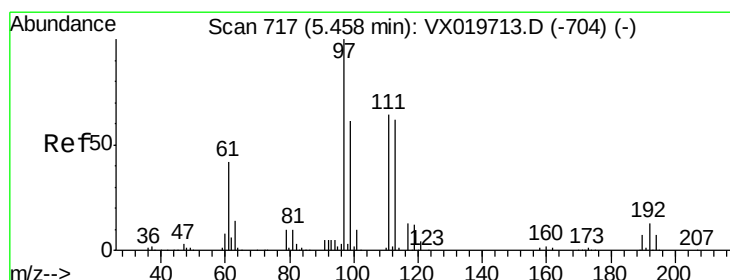
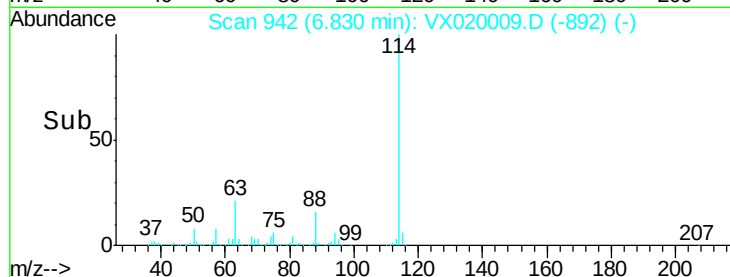
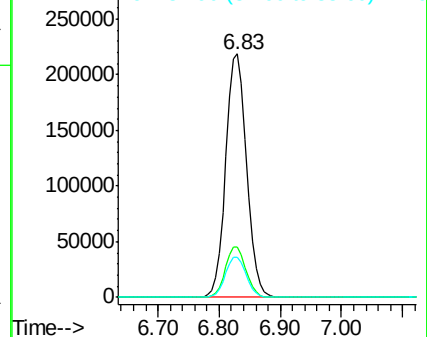
88 16.3 0.0 32.8



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: 47.878 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.00 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

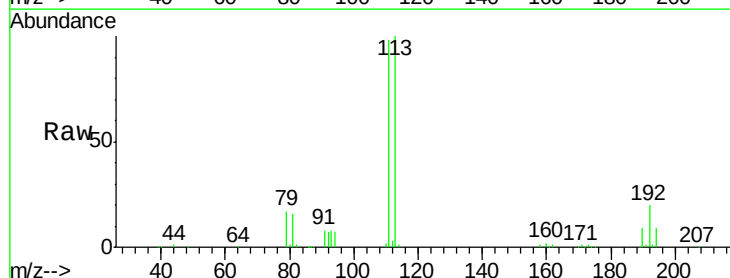
Tgt Ion:113 Resp: 159609

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

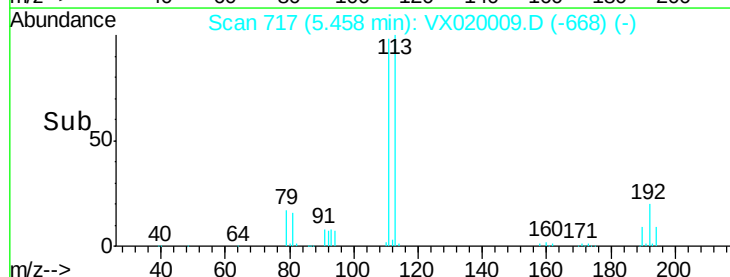
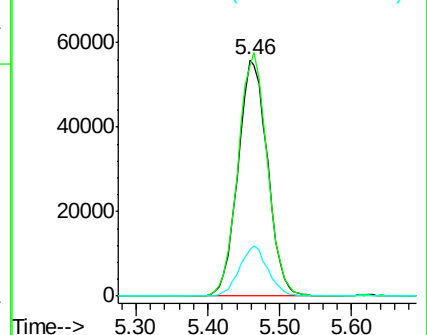
192 20.5 16.7 25.1

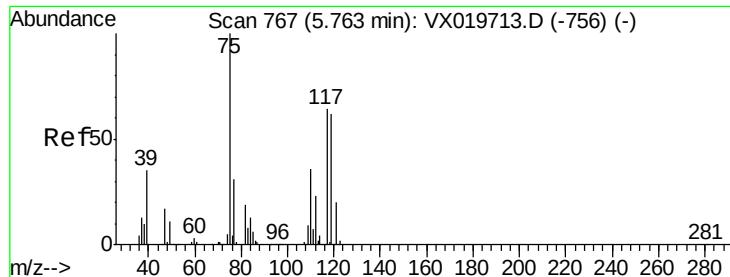


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

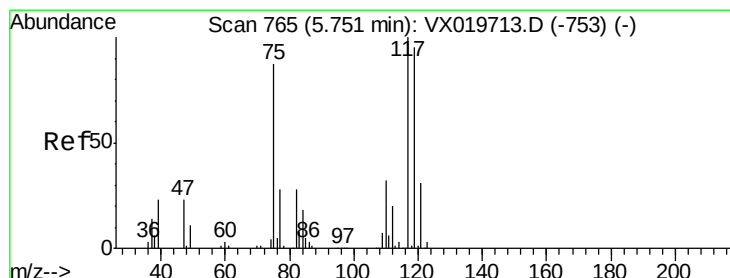
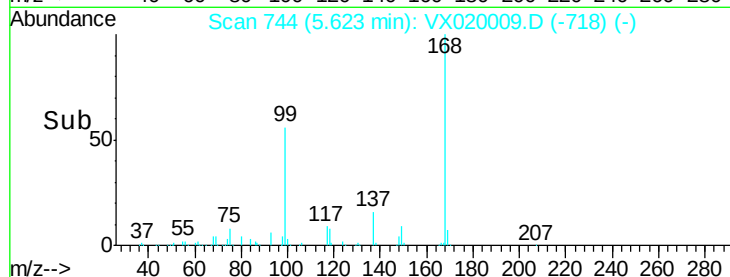
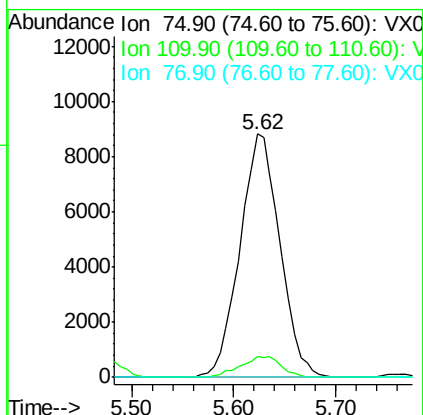
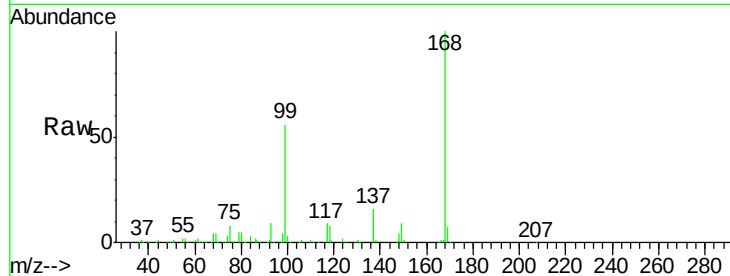




#36
 1,1-Dichloropropene
 Concen: 5.154 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX020009.D
 Acq: 15 Dec 2020 14:15

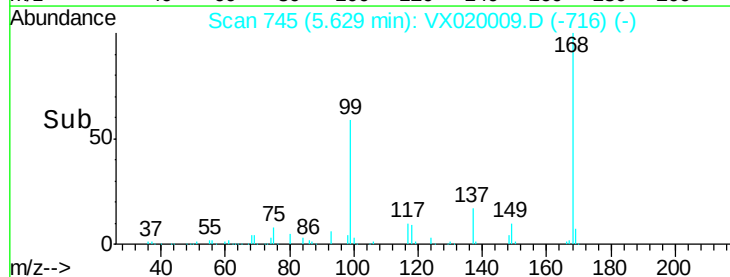
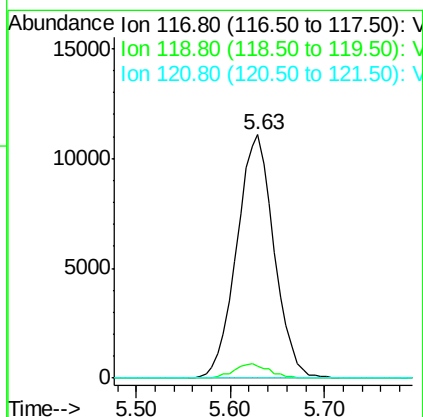
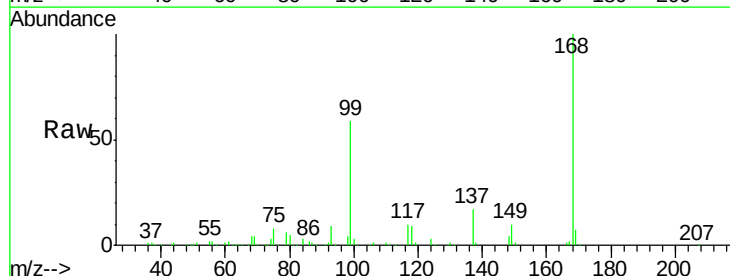
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5227-121020

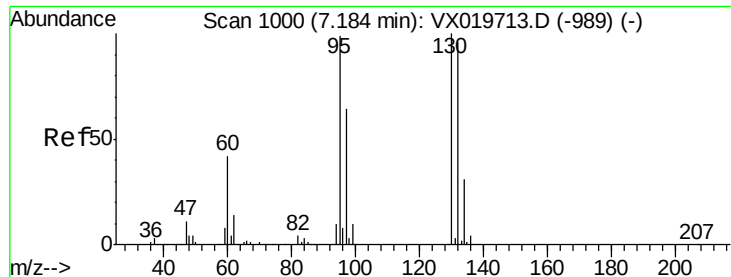
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.1	54.4#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 6.717 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX020009.D
 Acq: 15 Dec 2020 14:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.2	114.2#
121	0.0	24.8	37.2#





#44

Trichloroethene

Concen: 0.275 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

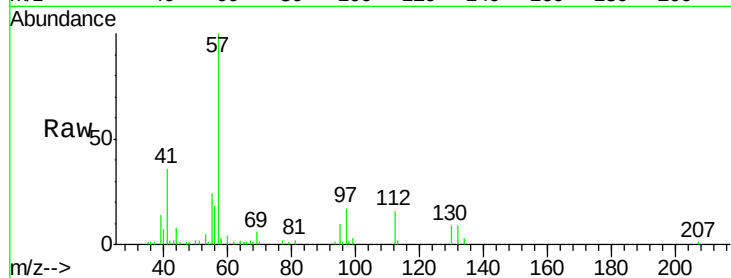
TU032-32-5227-121020

Tgt Ion:130 Resp: 1027

Ion Ratio Lower Upper

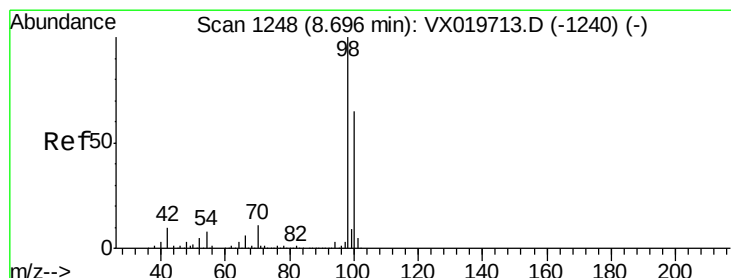
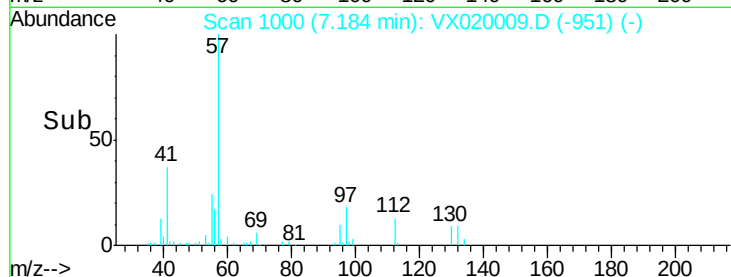
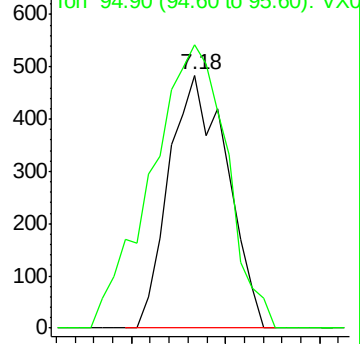
130 100

95 112.0 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.720 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX020009.D

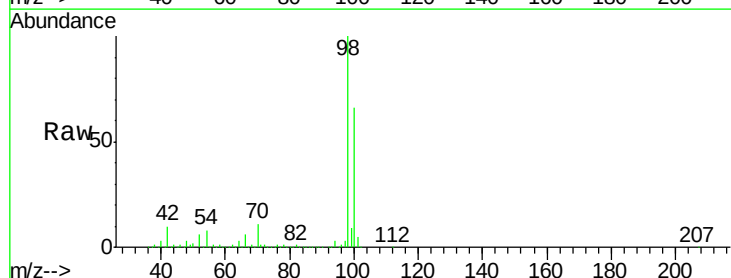
Acq: 15 Dec 2020 14:15

Tgt Ion: 98 Resp: 620069

Ion Ratio Lower Upper

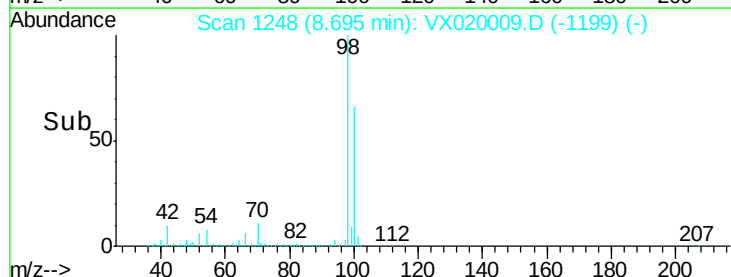
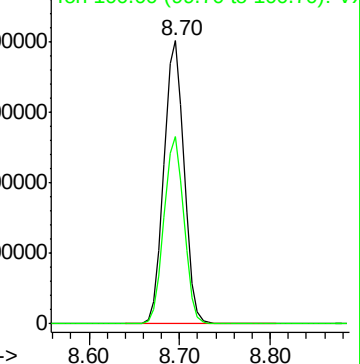
98 100

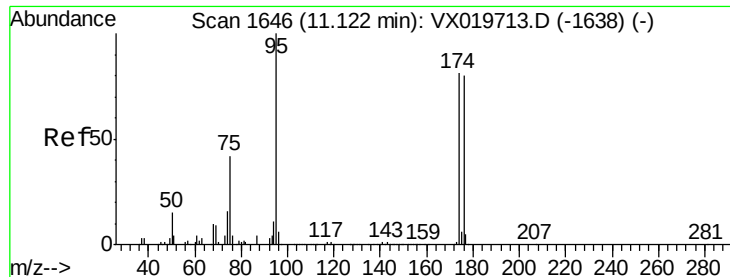
100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.636 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

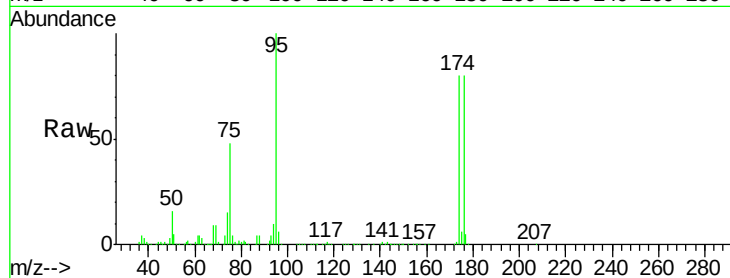
Tgt Ion: 95 Resp: 221067

Ion Ratio Lower Upper

95 100

174 76.8 0.0 154.6

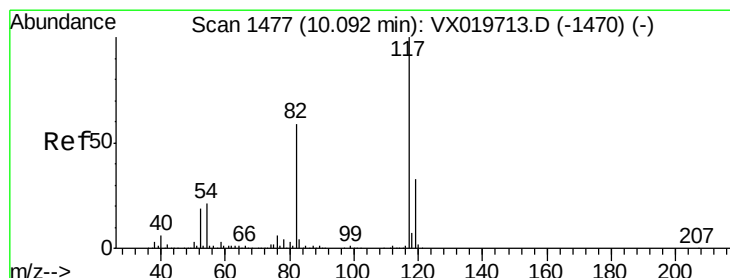
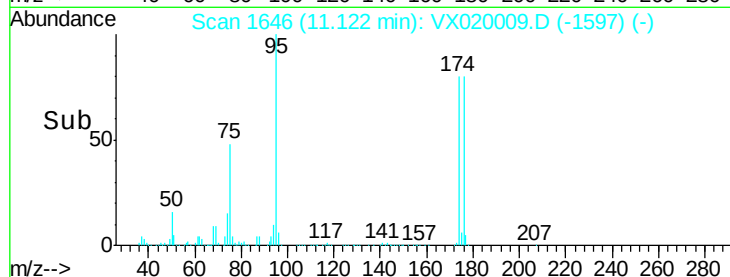
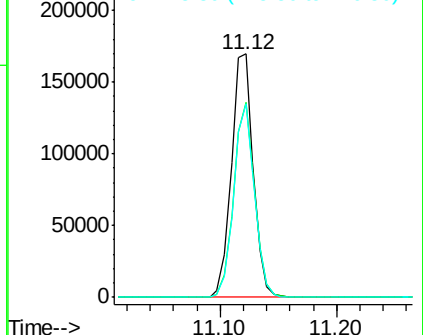
176 75.6 0.0 155.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

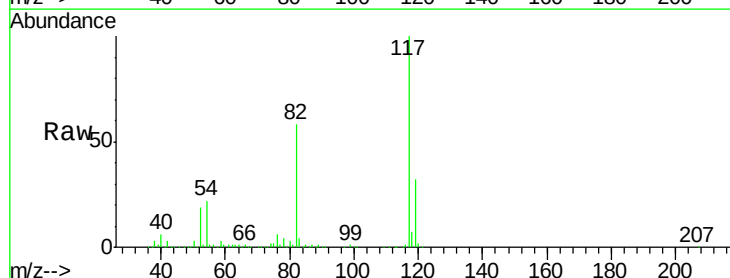
Tgt Ion: 117 Resp: 470986

Ion Ratio Lower Upper

117 100

82 58.1 47.4 71.2

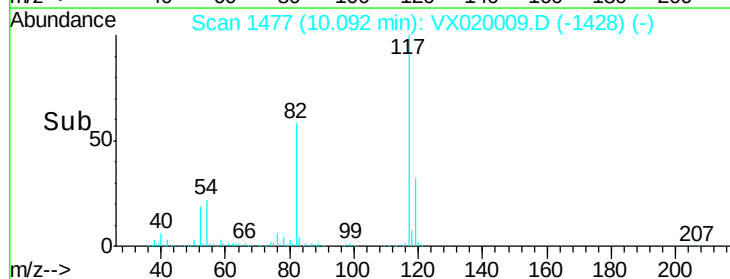
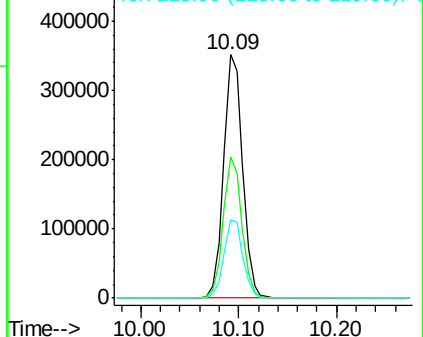
119 32.1 26.6 39.8

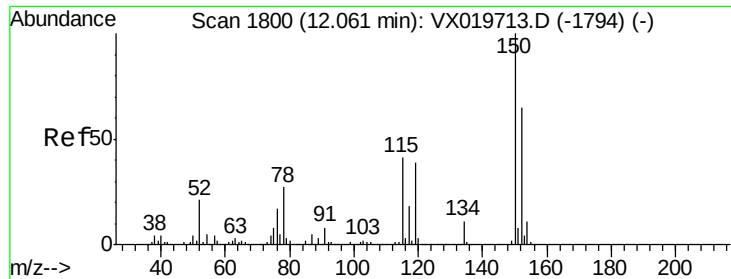


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): 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: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

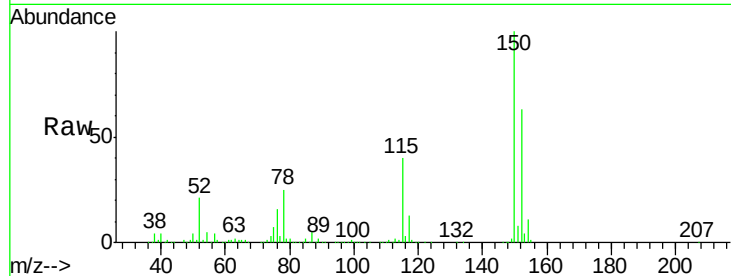
Tgt Ion:152 Resp: 204090

Ion Ratio Lower Upper

152 100

115 61.1 41.1 123.3

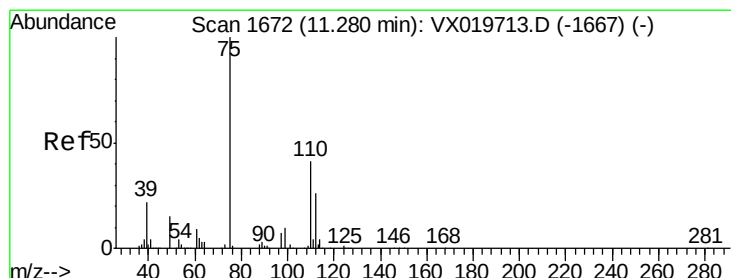
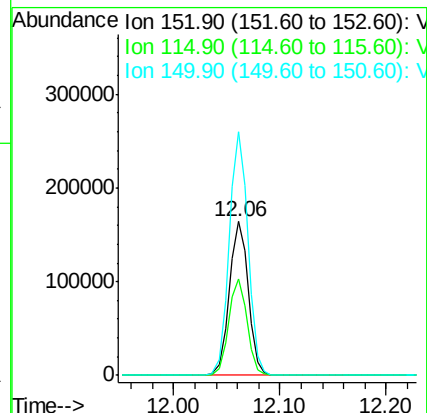
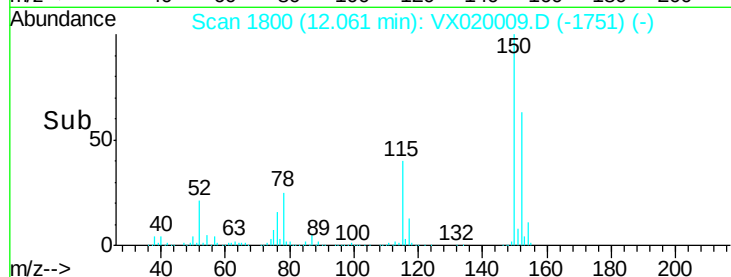
150 157.5 0.0 349.0



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: 23.437 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020009.D

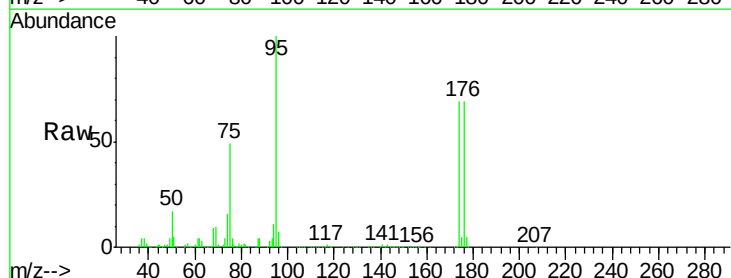
Acq: 15 Dec 2020 14:15

Tgt Ion: 75 Resp: 107278

Ion Ratio Lower Upper

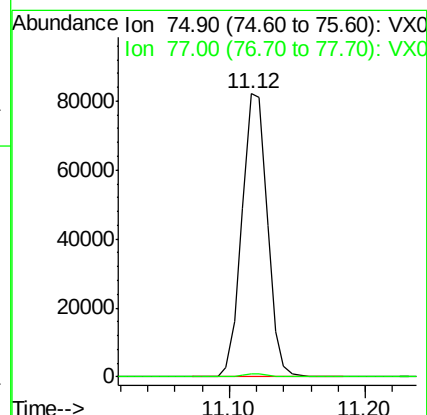
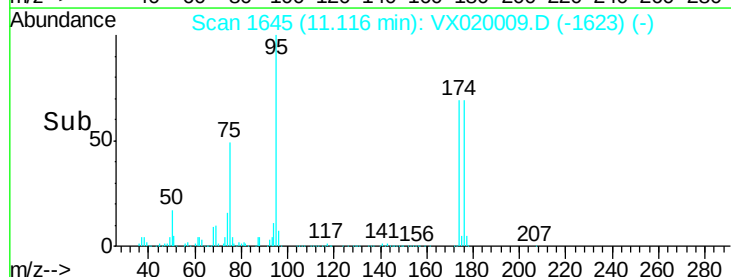
75 100

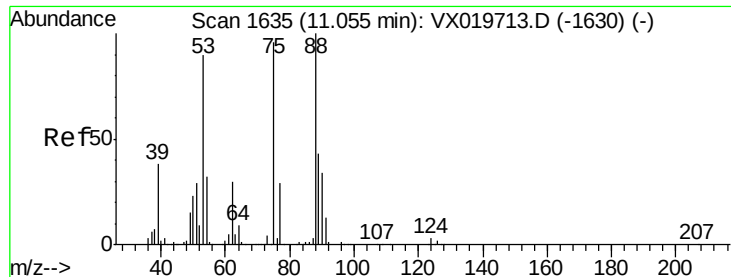
77 1.3 19.1 57.5#



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: 67.751 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020009.D

Acq: 15 Dec 2020 14:15

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

Tgt Ion: 75 Resp: 107278

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

