

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019283.D
 Acq On : 04 Nov 2020 20:49
 Operator : JC/MD
 Sample : L4616-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 05 02:26:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	281850	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	501868	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	486602	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	242411	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	200562	55.18	ug/l	0.00
Spiked Amount			Recovery	=	110.36%	
35) Dibromofluoromethane	5.46	113	157033	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
50) Toluene-d8	8.70	98	626068	52.68	ug/l	0.00
Spiked Amount			Recovery	=	105.36%	
62) 4-Bromofluorobenzene	11.12	95	239970	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	

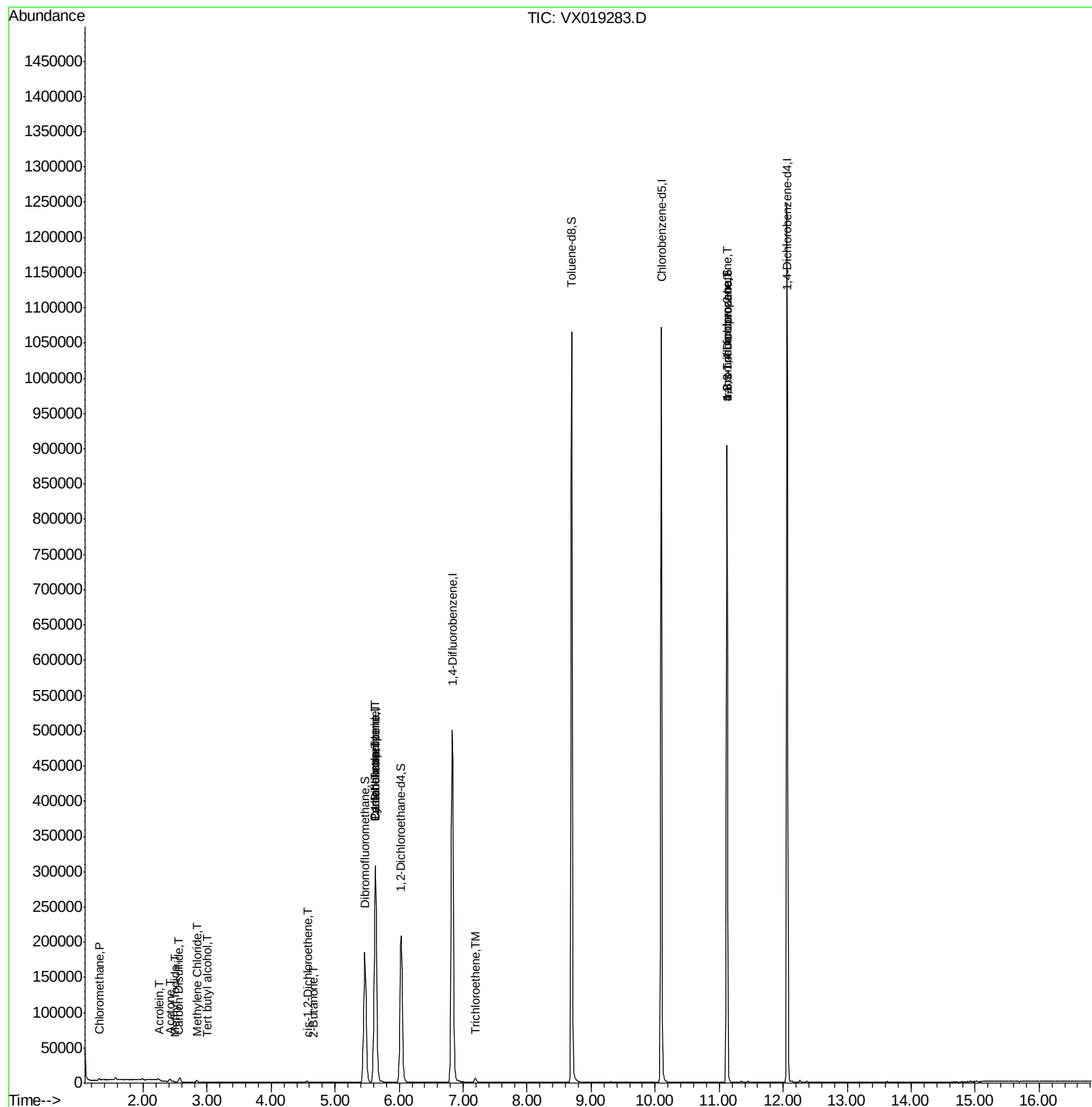
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	655	0.250	ug/l #	85
10) Methyl Iodide	2.49	142	45	6.391	ug/l #	39
11) Tert butyl alcohol	2.99	59	192	0.267	ug/l #	72
13) Acrolein	2.26	56	171	6.169	ug/l #	1
16) Acetone	2.42	43	4019	3.205	ug/l	97
17) Carbon Disulfide	2.55	76	1234	0.916	ug/l #	88
20) Methylene Chloride	2.84	84	1051	0.334	ug/l #	82
25) 2-Butanone	4.65	43	488	0.247	ug/l #	44
27) cis-1,2-Dichloroethene	4.57	96	747	0.213	ug/l	82
31) Cyclohexane	5.63	56	6071	1.321	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22852	4.931	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29125	6.166	ug/l #	16
44) Trichloroethene	7.19	130	1956	0.520	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	122078	24.390	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	122078	64.218	ug/l #	12

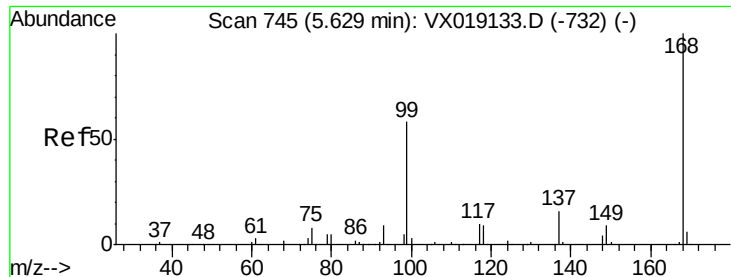
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

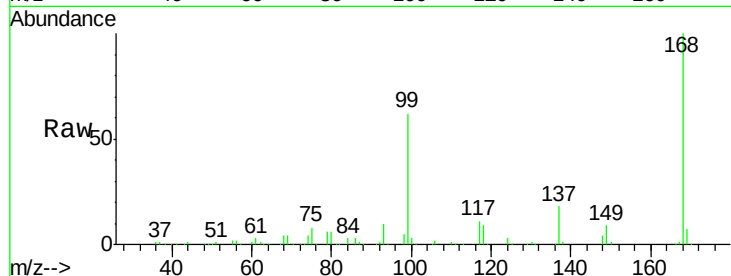
ClientSampleId :

Tot Ion:168 Resp: 281850

Ion Ratio Lower Upper

168 100

99 61.6 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

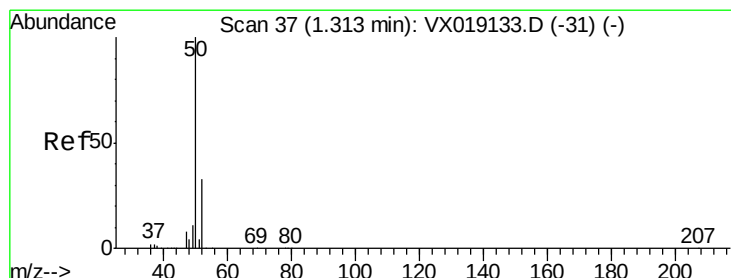
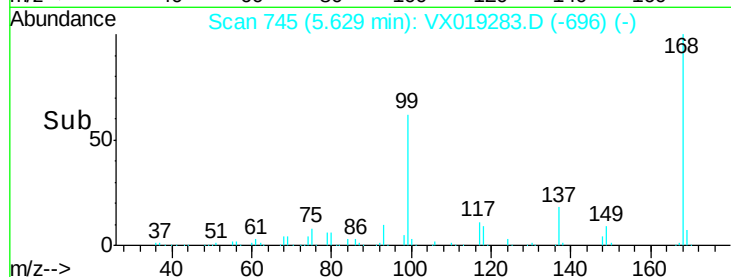
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.250 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019283.D

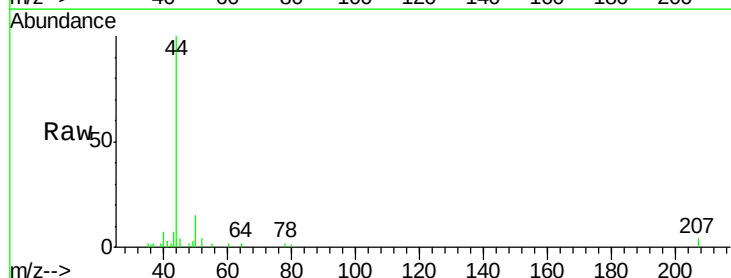
Acq: 04 Nov 2020 20:49

Tgt Ion: 50 Resp: 655

Ion Ratio Lower Upper

50 100

52 24.7 26.8 40.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

600

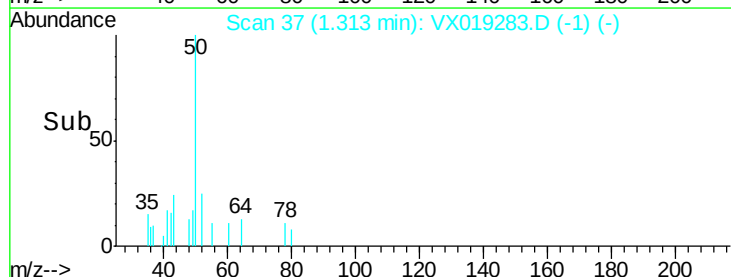
400

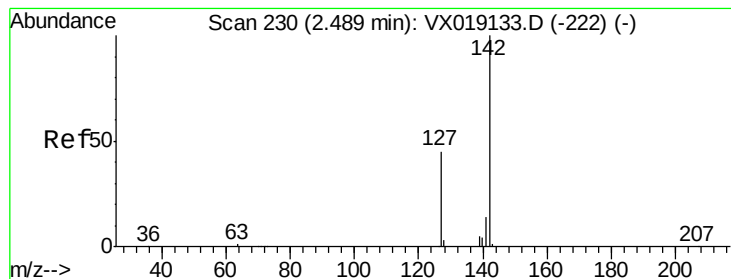
200

0

Time-->

1.30 1.35





#10

Methyl Iodide

Concen: 6.391 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019283.D

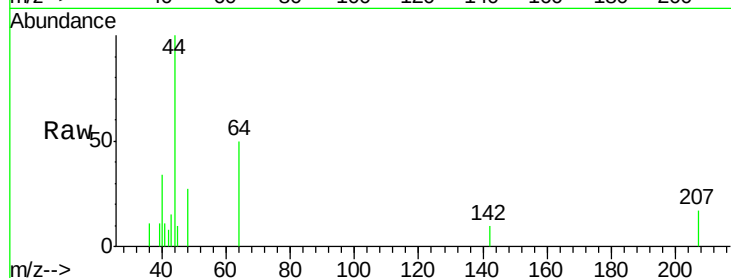
Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

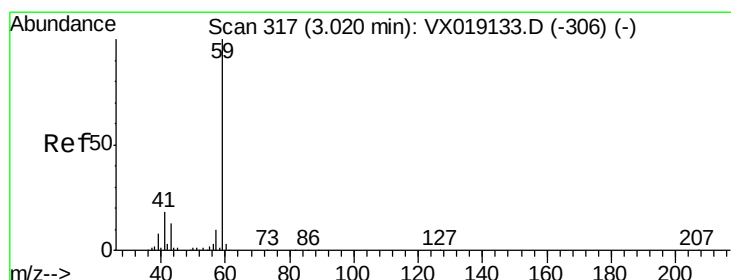
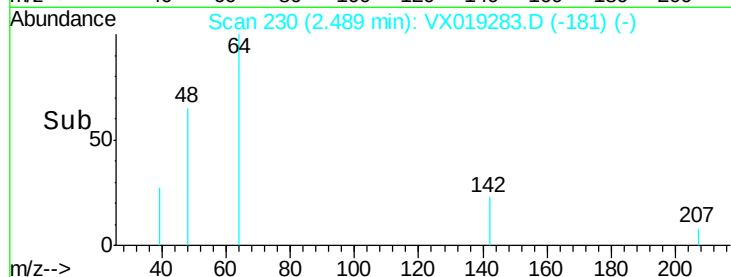
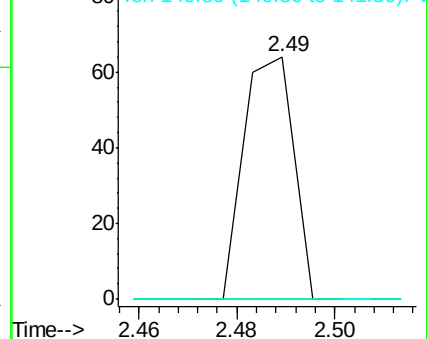
Tot Ion:	142	Resp:	45
Ion	Ratio	Lower	Upper
142	100		
127	0.0	36.1	54.1#
141	0.0	11.3	16.9#



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: 0.267 ug/l

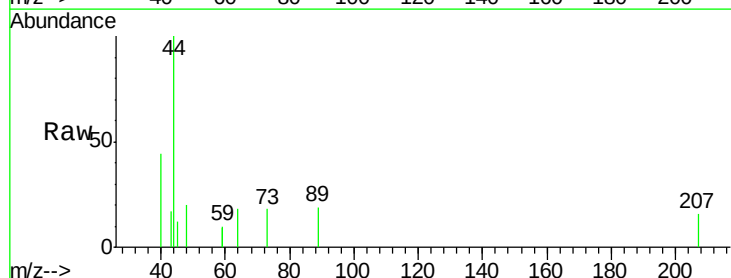
RT: 2.99 min Scan# 312

Delta R.T. -0.03 min

Lab File: VX019283.D

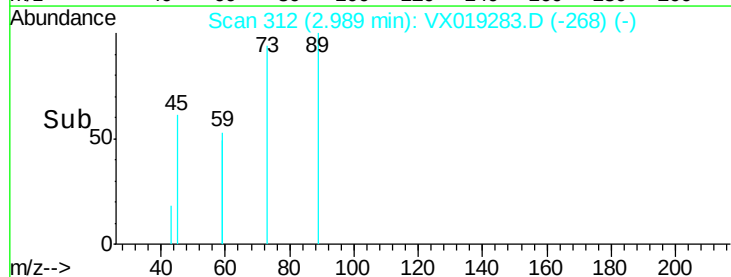
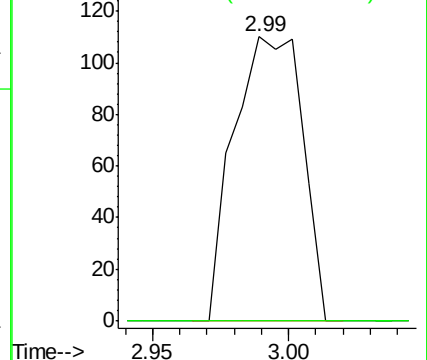
Acq: 04 Nov 2020 20:49

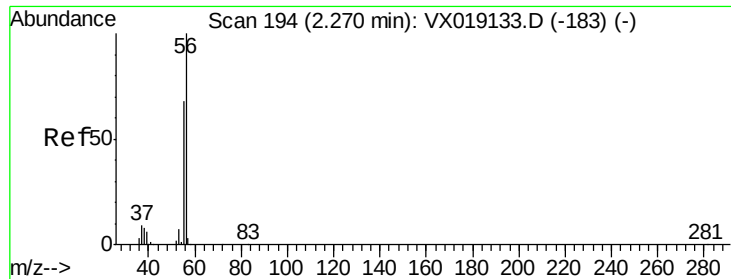
Tgt Ion:	59	Resp:	192
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.4	12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 6.169 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.01 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

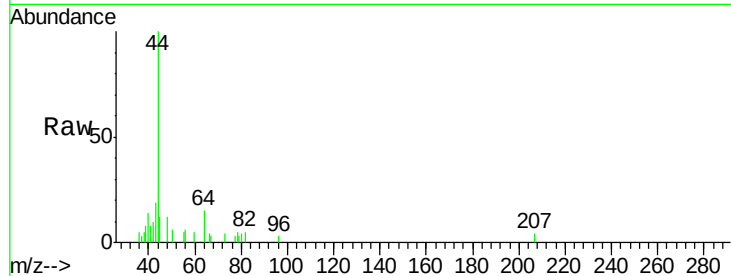
ClientSampleId :

Tot Ion: 56 Resp: 171

Ion Ratio Lower Upper

56 100

55 199.4 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

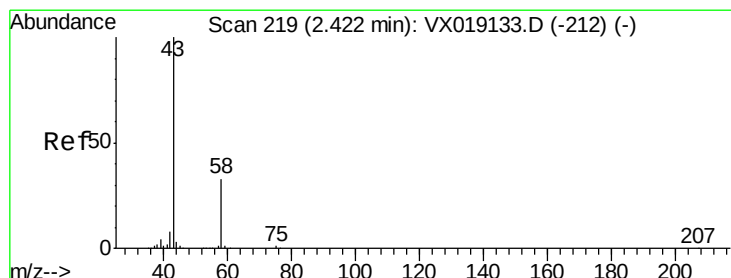
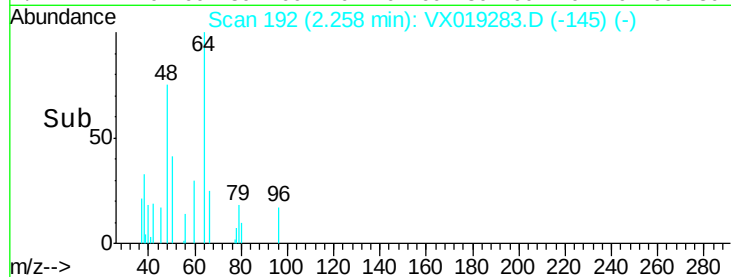
100

50

0

2.22 2.24 2.26 2.28 2.30

Time-->



#16

Acetone

Concen: 3.205 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019283.D

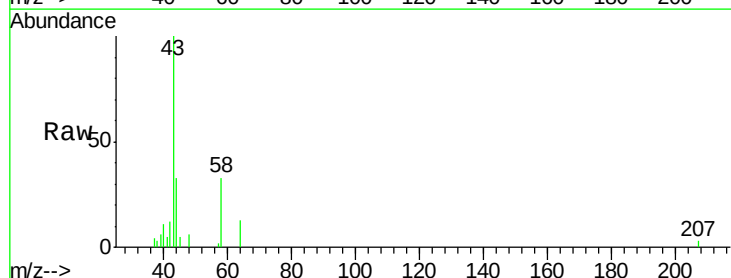
Acq: 04 Nov 2020 20:49

Tgt Ion: 43 Resp: 4019

Ion Ratio Lower Upper

43 100

58 34.5 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

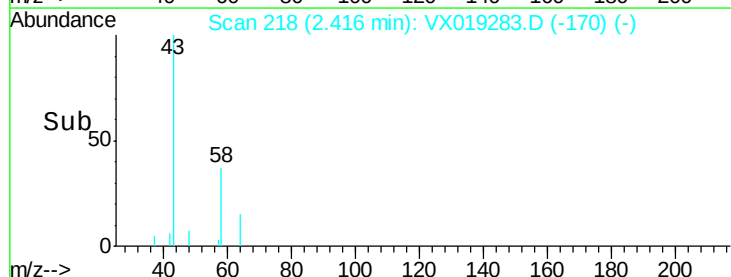
1000

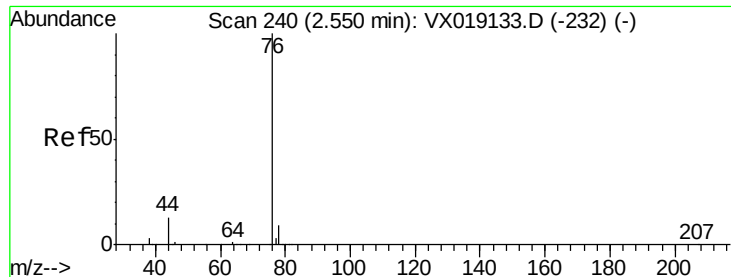
500

0

2.35 2.40 2.45 2.50

Time-->





#17

Carbon Disulfide

Concen: 0.916 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

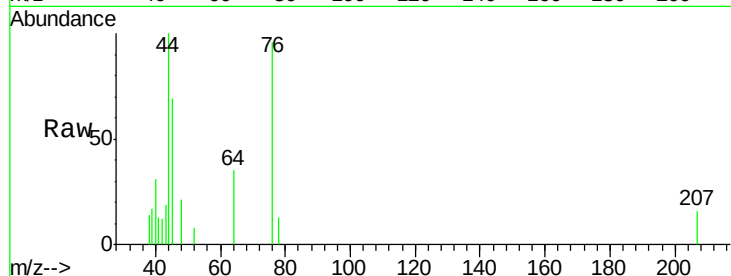
ClientSampleId :

Tot Ion: 76 Resp: 1234

Ion Ratio Lower Upper

76 100

78 13.4 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.55

800

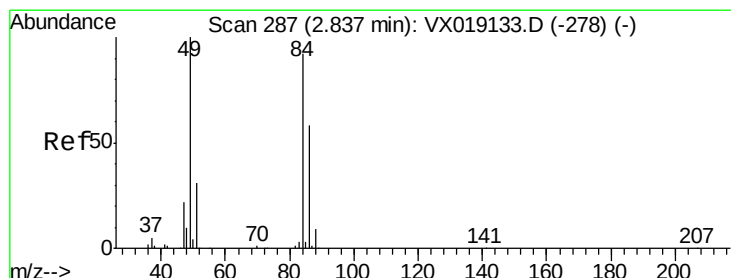
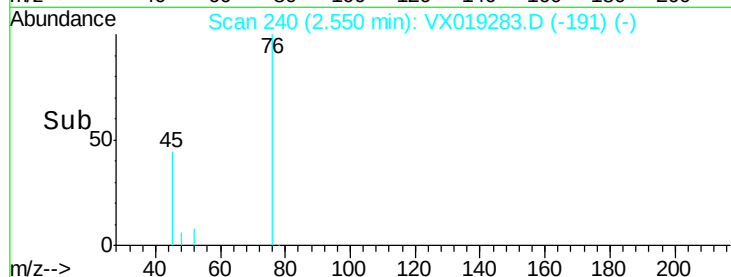
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 0.334 ug/l

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

Tgt Ion: 84 Resp: 1051

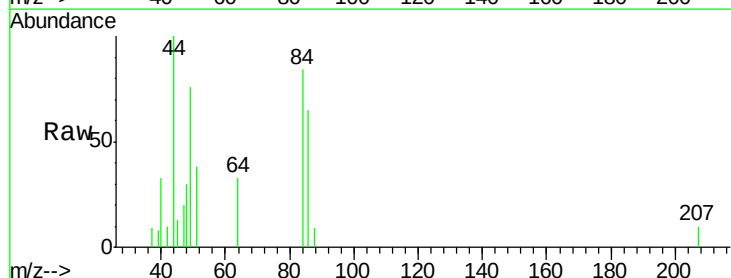
Ion Ratio Lower Upper

84 100

49 90.3 86.8 130.2

51 45.7 27.3 40.9#

86 77.6 50.6 76.0#



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

1200

1000

800

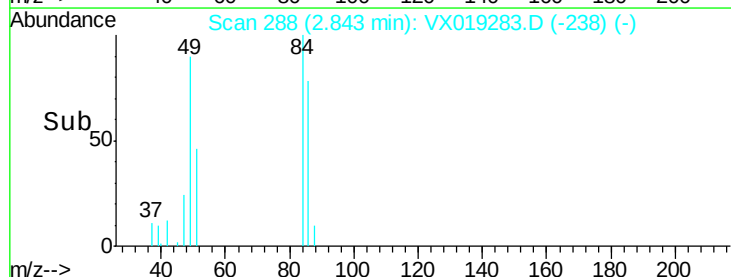
600

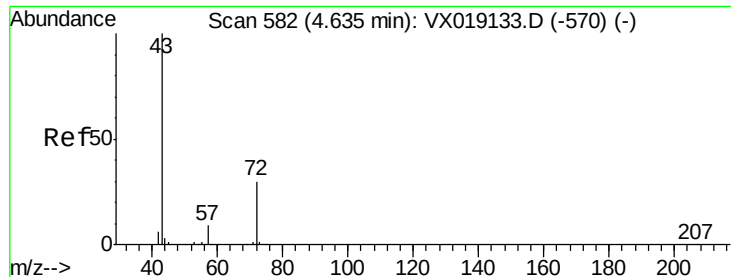
400

200

0

Time-->





#25

2-Butanone

Concen: 0.247 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

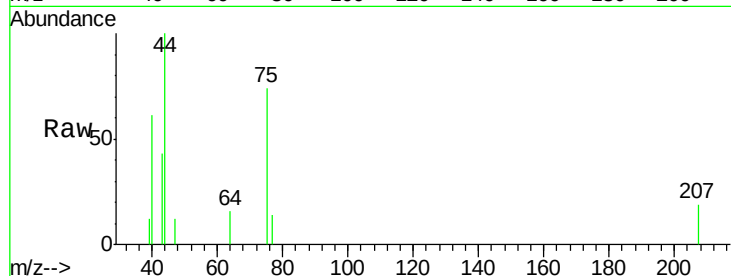
ClientSampled :

Tot Ion: 43 Resp: 488

Ion Ratio Lower Upper

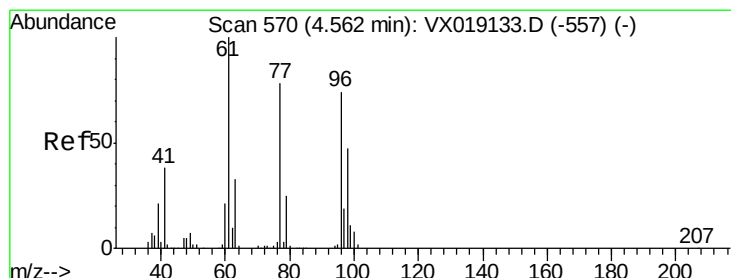
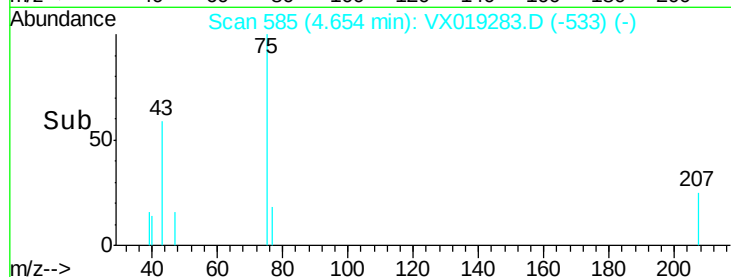
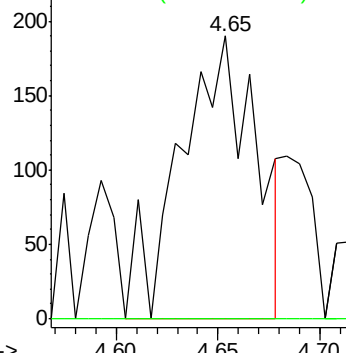
43 100

72 0.0 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.213 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

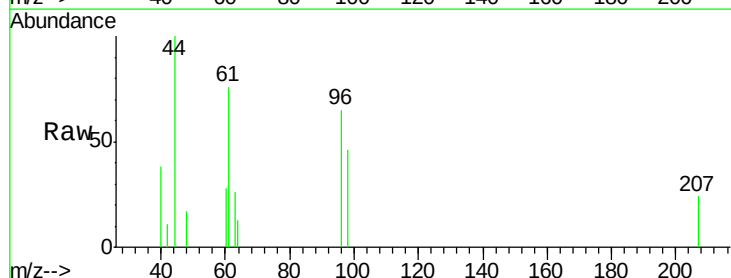
Tgt Ion: 96 Resp: 747

Ion Ratio Lower Upper

96 100

61 126.9 0.0 278.8

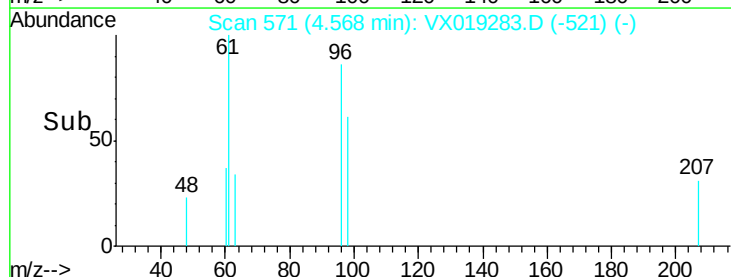
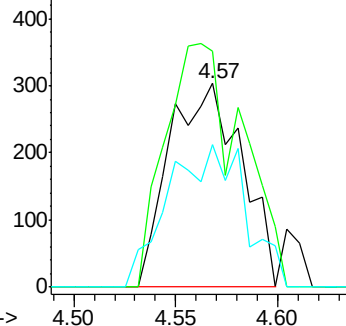
98 36.8 0.0 130.2

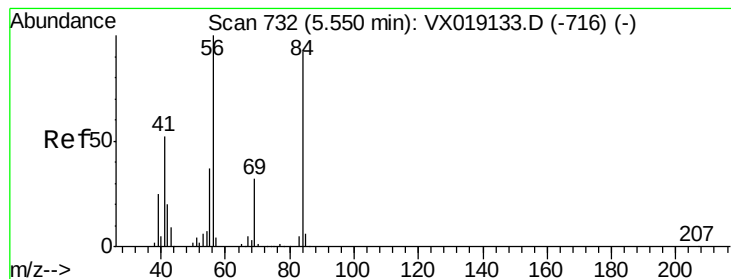


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.321 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

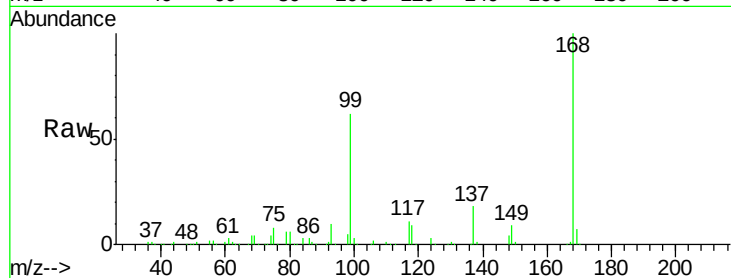
Tot Ion: 56 Resp: 6071

Ion Ratio Lower Upper

56 100

69 173.6 25.9 38.9#

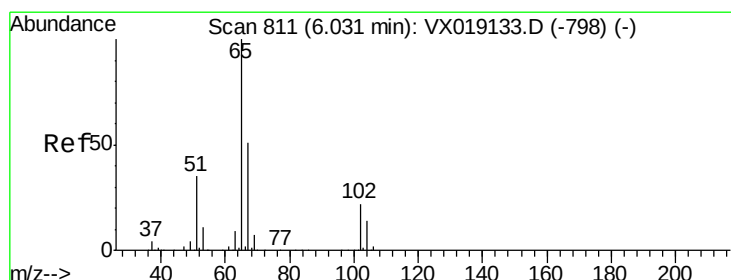
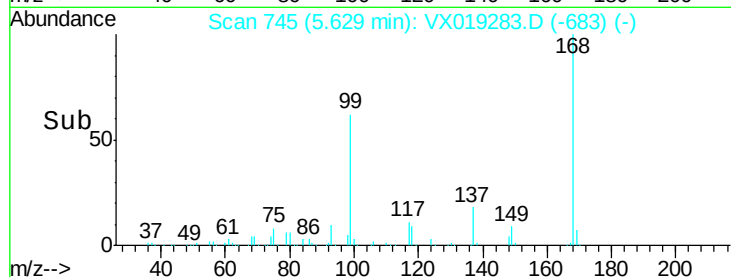
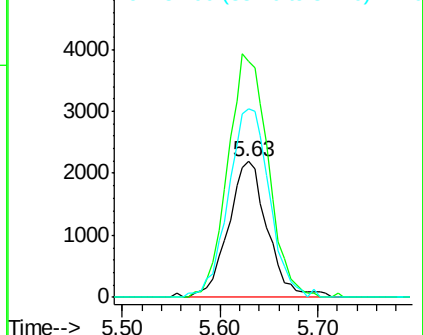
84 139.3 73.4 110.2#



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: 55.178 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019283.D

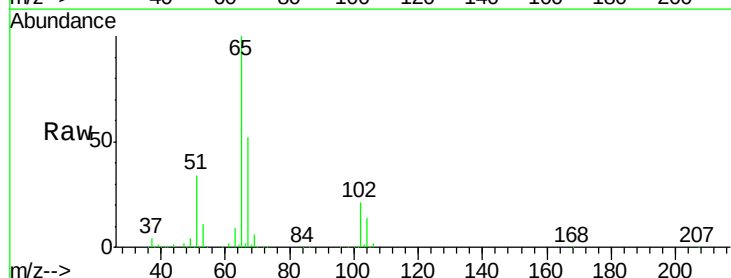
Acq: 04 Nov 2020 20:49

Tgt Ion: 65 Resp: 200562

Ion Ratio Lower Upper

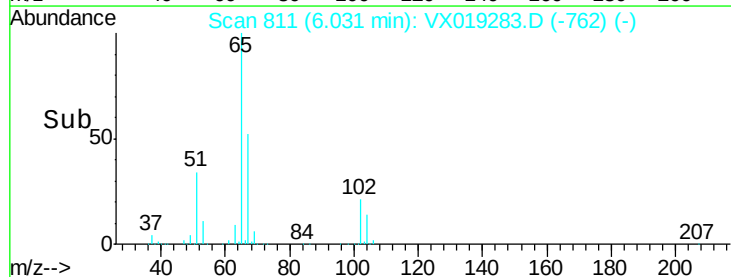
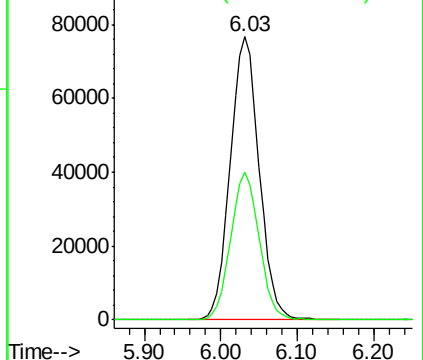
65 100

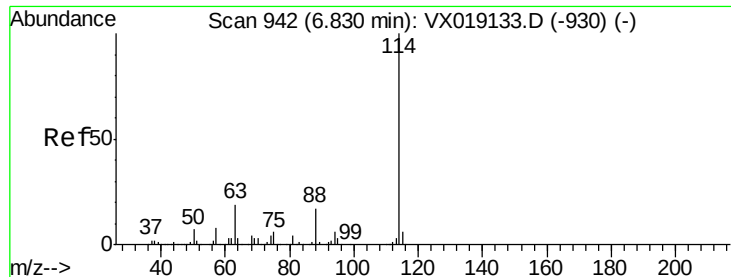
67 51.5 0.0 103.0



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: VX019283.D

Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

ClientSampled :

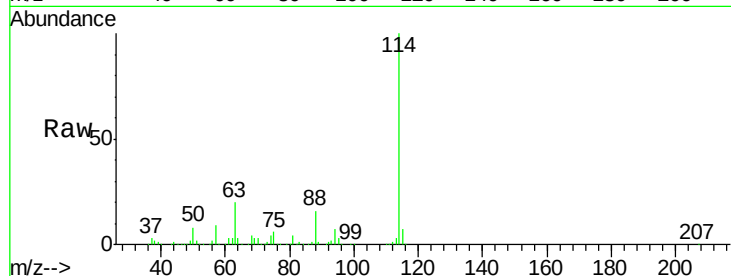
Tot Ion:114 Resp: 501868

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.8

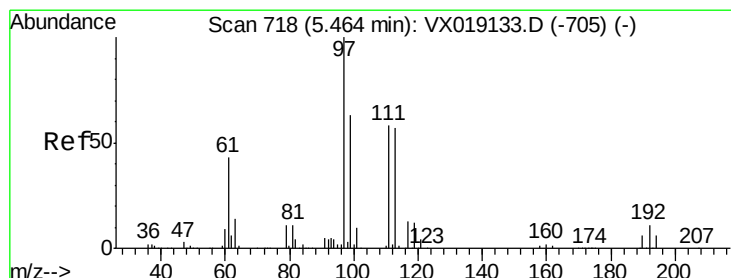
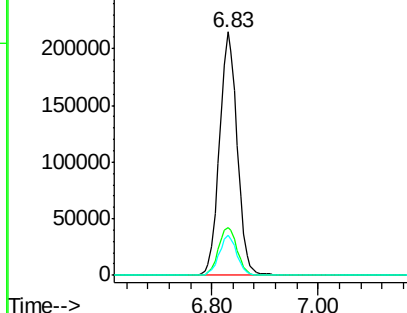
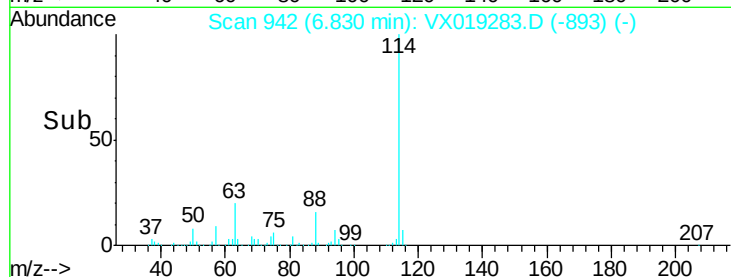
88 16.4 0.0 34.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.814 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

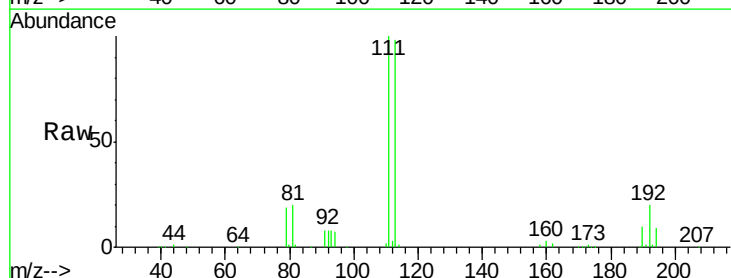
Tgt Ion:113 Resp: 157033

Ion Ratio Lower Upper

113 100

111 103.5 82.3 123.5

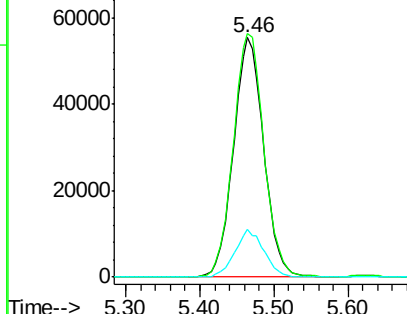
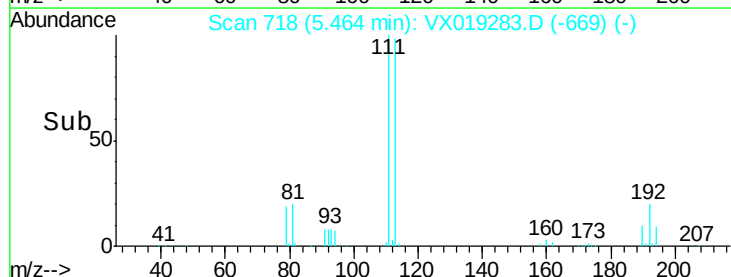
192 19.1 16.2 24.2

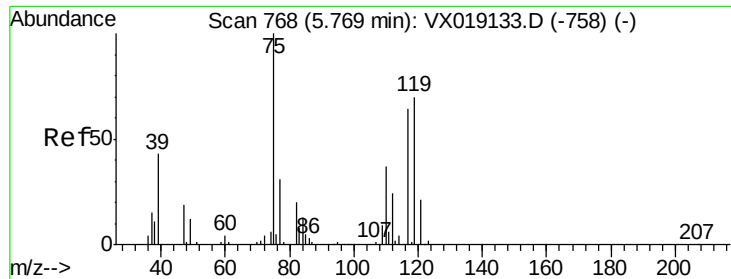


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

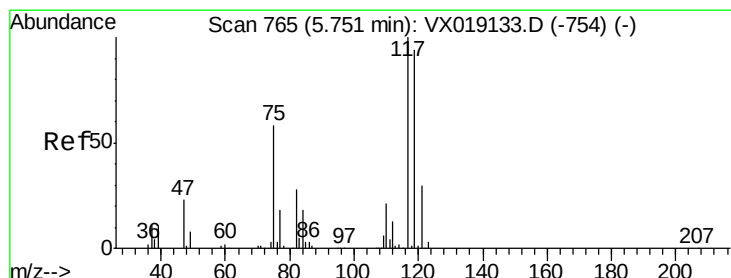
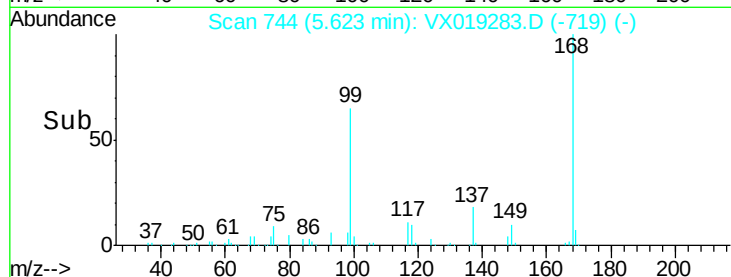
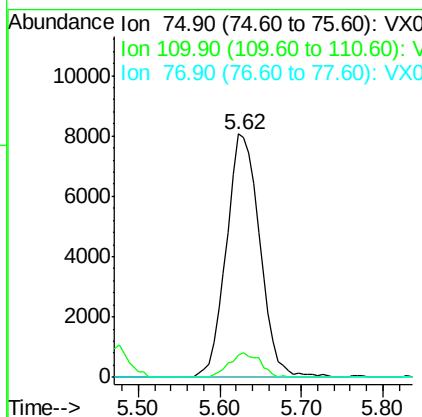
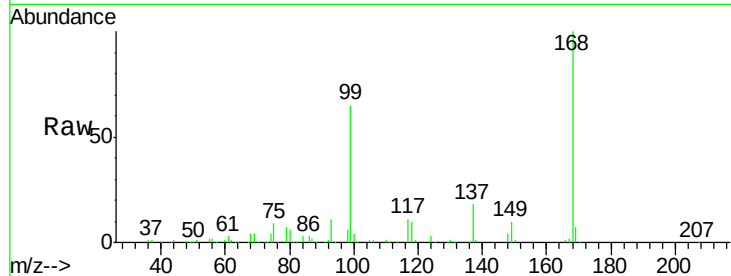




#36
 1,1-Dichloropropene
 Concen: 4.931 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX019283.D
 Acq: 04 Nov 2020 20:49

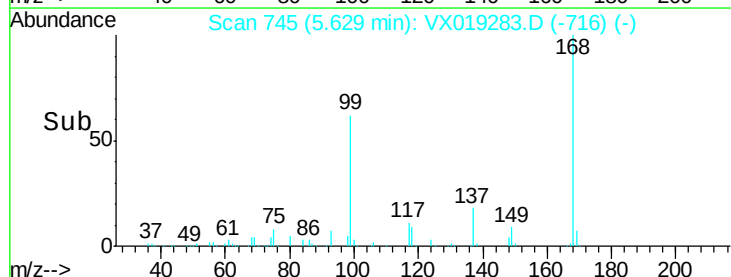
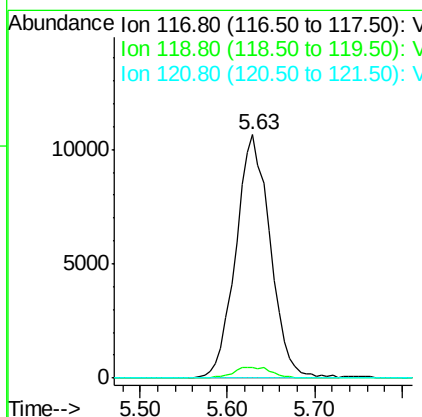
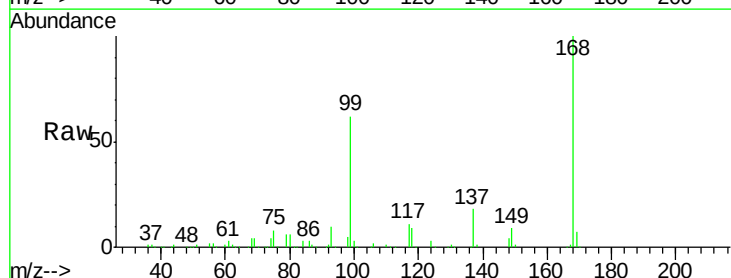
Instrument :
 MSVOA_X
 ClientSampled :

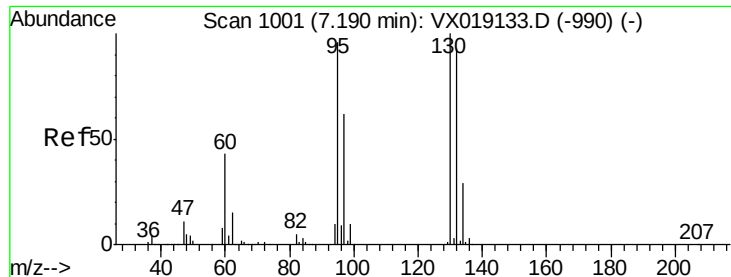
Tot Ion: 75 Resp: 22852
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.166 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019283.D
 Acq: 04 Nov 2020 20:49

Tgt Ion: 117 Resp: 29125
 Ion Ratio Lower Upper
 117 100
 119 4.2 75.0 112.6#
 121 0.0 23.9 35.9#





#44

Trichloroethene

Concen: 0.520 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

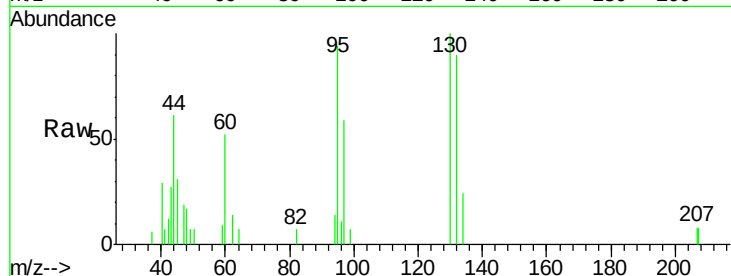
ClientSampleId :

Tot Ion:130 Resp: 1956

Ion Ratio Lower Upper

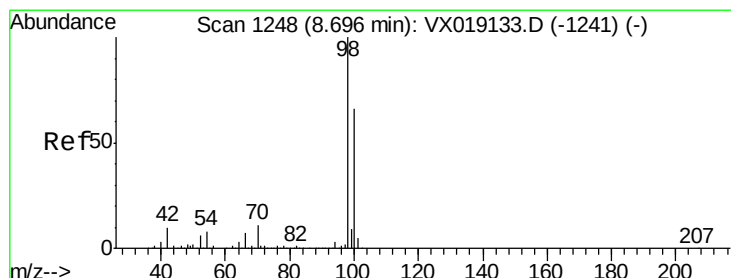
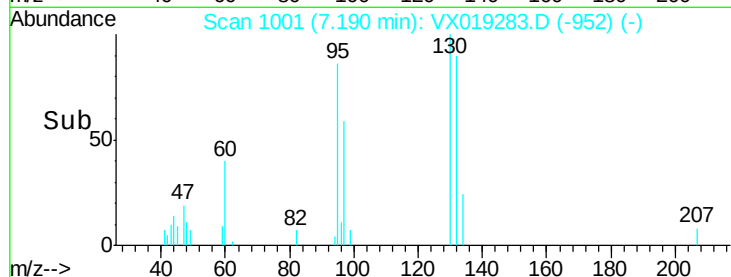
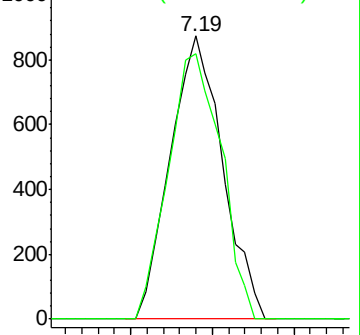
130 100

95 93.7 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 52.684 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019283.D

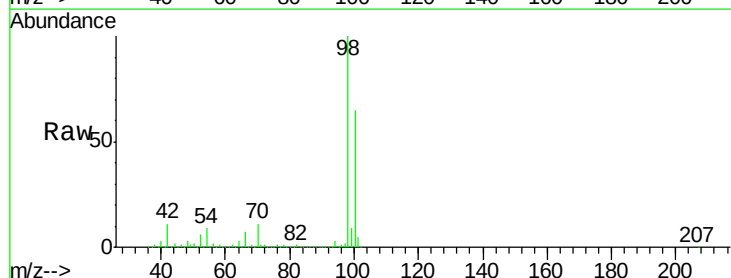
Acq: 04 Nov 2020 20:49

Tgt Ion: 98 Resp: 626068

Ion Ratio Lower Upper

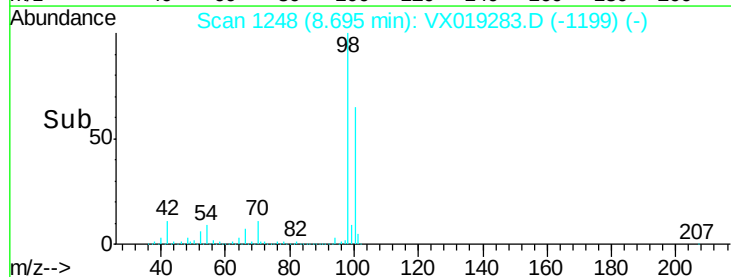
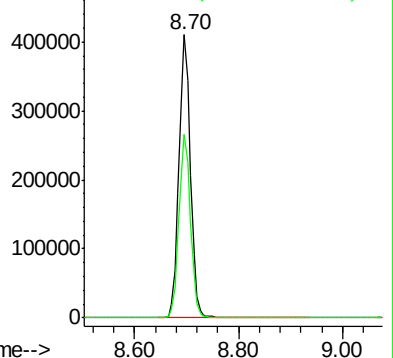
98 100

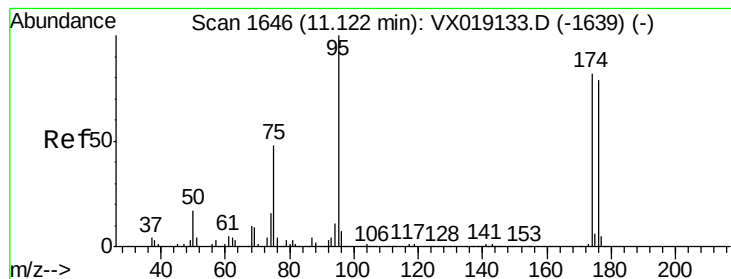
100 65.2 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.322 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

ClientSampled :

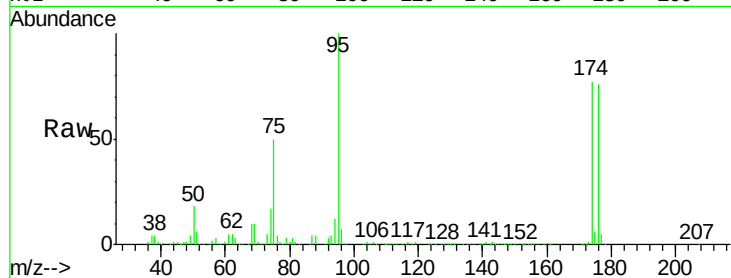
Tot Ion: 95 Resp: 239970

Ion Ratio Lower Upper

95 100

174 75.1 0.0 156.0

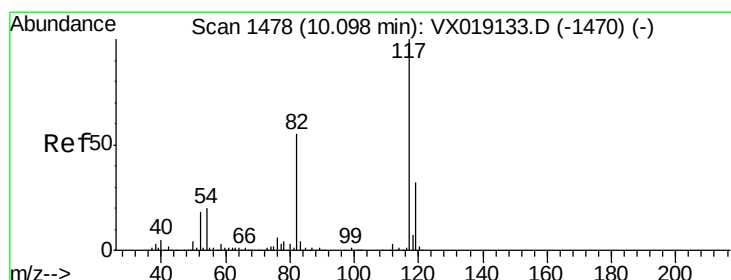
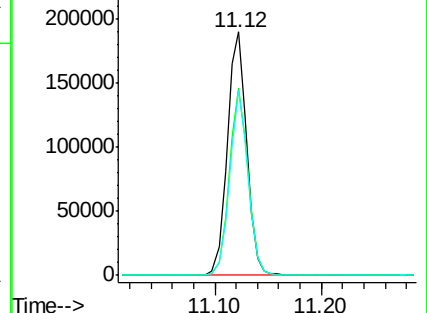
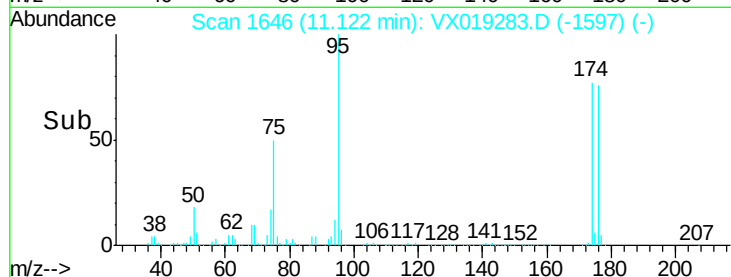
176 72.3 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX019283.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX019283.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX019283.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

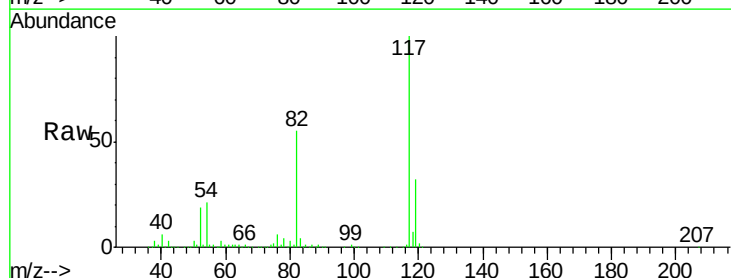
Tgt Ion: 117 Resp: 486602

Ion Ratio Lower Upper

117 100

82 55.4 43.6 65.4

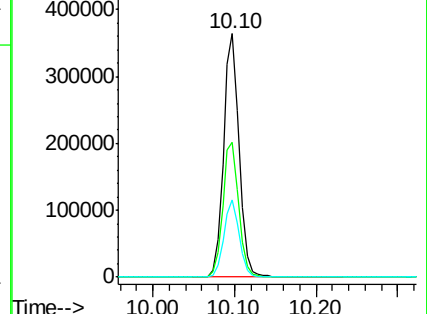
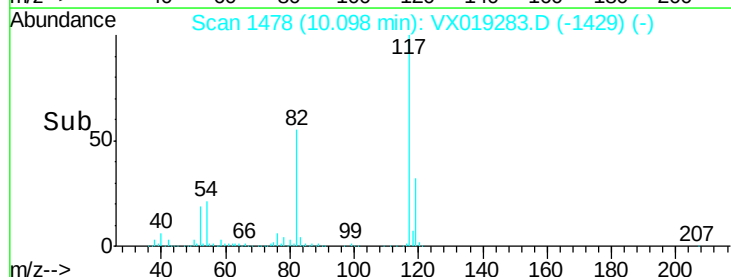
119 31.7 25.5 38.3

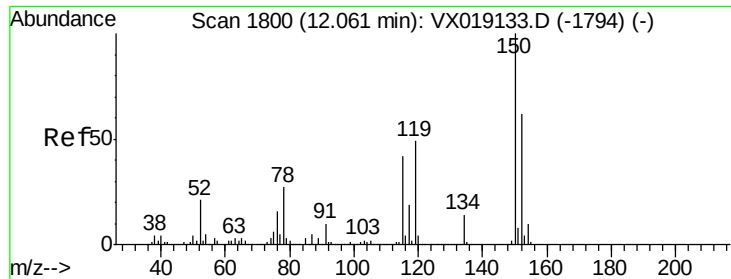


Abundance Ion 116.90 (116.60 to 117.60): VX019283.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX019283.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX019283.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019283.D

Acq: 04 Nov 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

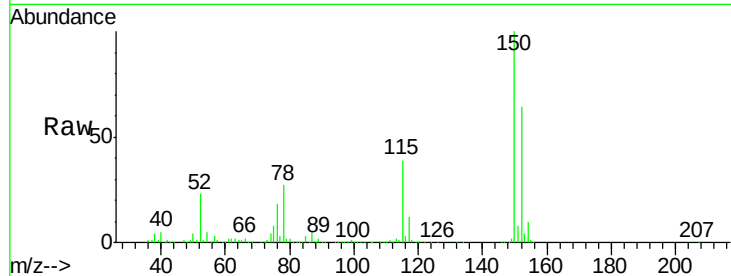
Tot Ion:152 Resp: 242411

Ion Ratio Lower Upper

152 100

115 61.7 41.9 125.7

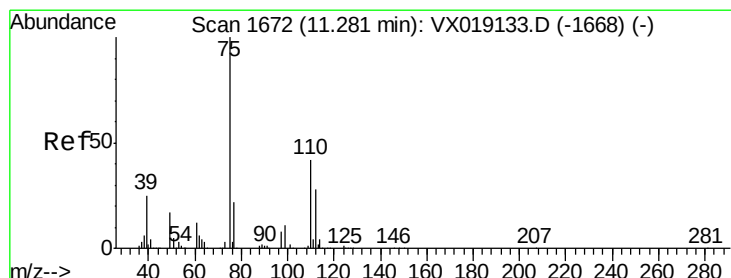
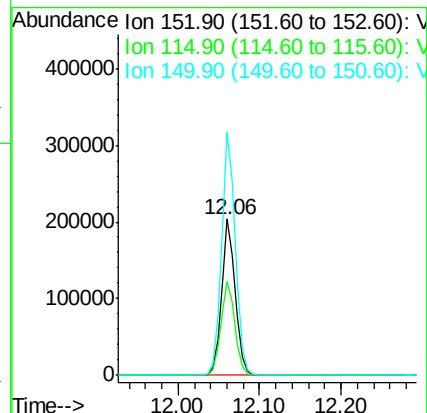
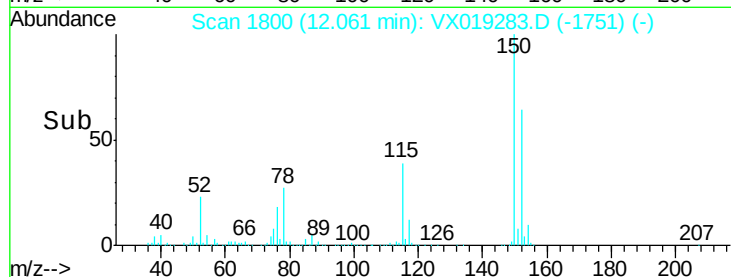
150 157.6 0.0 347.8



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: 24.390 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019283.D

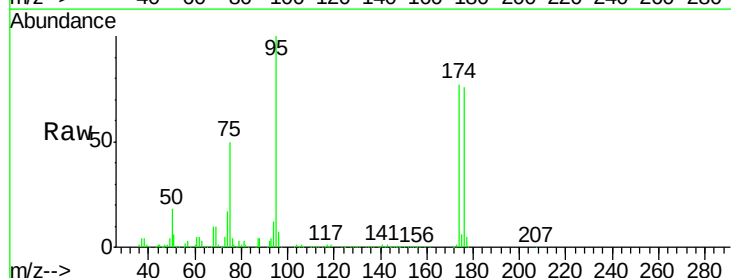
Acq: 04 Nov 2020 20:49

Tgt Ion: 75 Resp: 122078

Ion Ratio Lower Upper

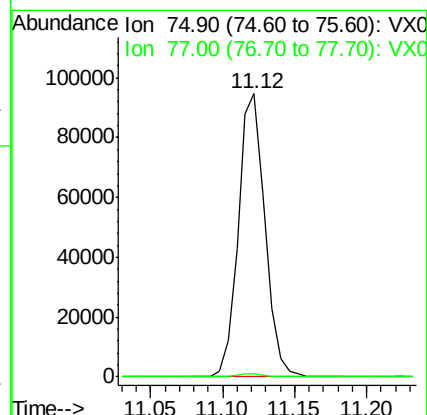
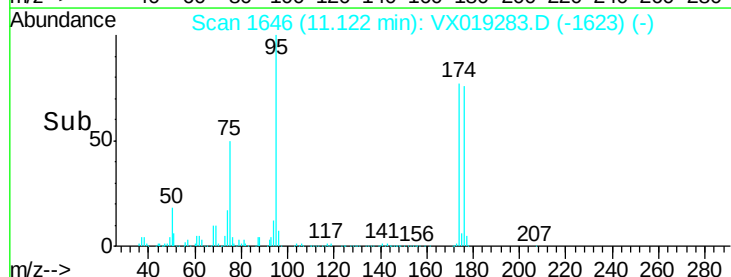
75 100

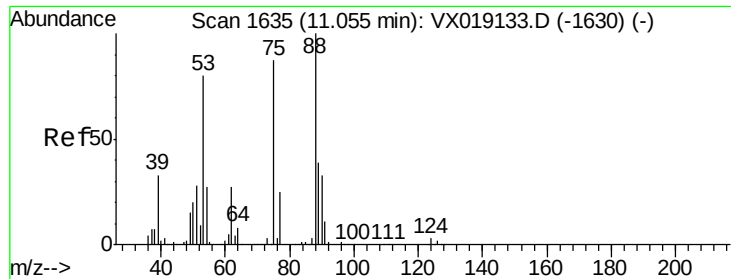
77 1.2 20.3 60.9#



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: 64.218 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019283.D
 Acq: 04 Nov 2020 20:49

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 122078
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.3 109.9#
 89 0.0 38.2 57.2#

