

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092019\
 Data File : VX012577.D
 Acq On : 20 Sep 2019 23:45
 Operator : JC/SP
 Sample : K4956-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-TB-2019-3

Quant Time: Sep 21 01:41:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	176424	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	281943	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	99743	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	119229	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
35) Dibromofluoromethane	5.49	113	84659	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
50) Toluene-d8	8.71	98	327836	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	
62) 4-Bromofluorobenzene	11.14	95	117198	44.69	ug/l	0.00
Spiked Amount			Recovery	=	89.38%	

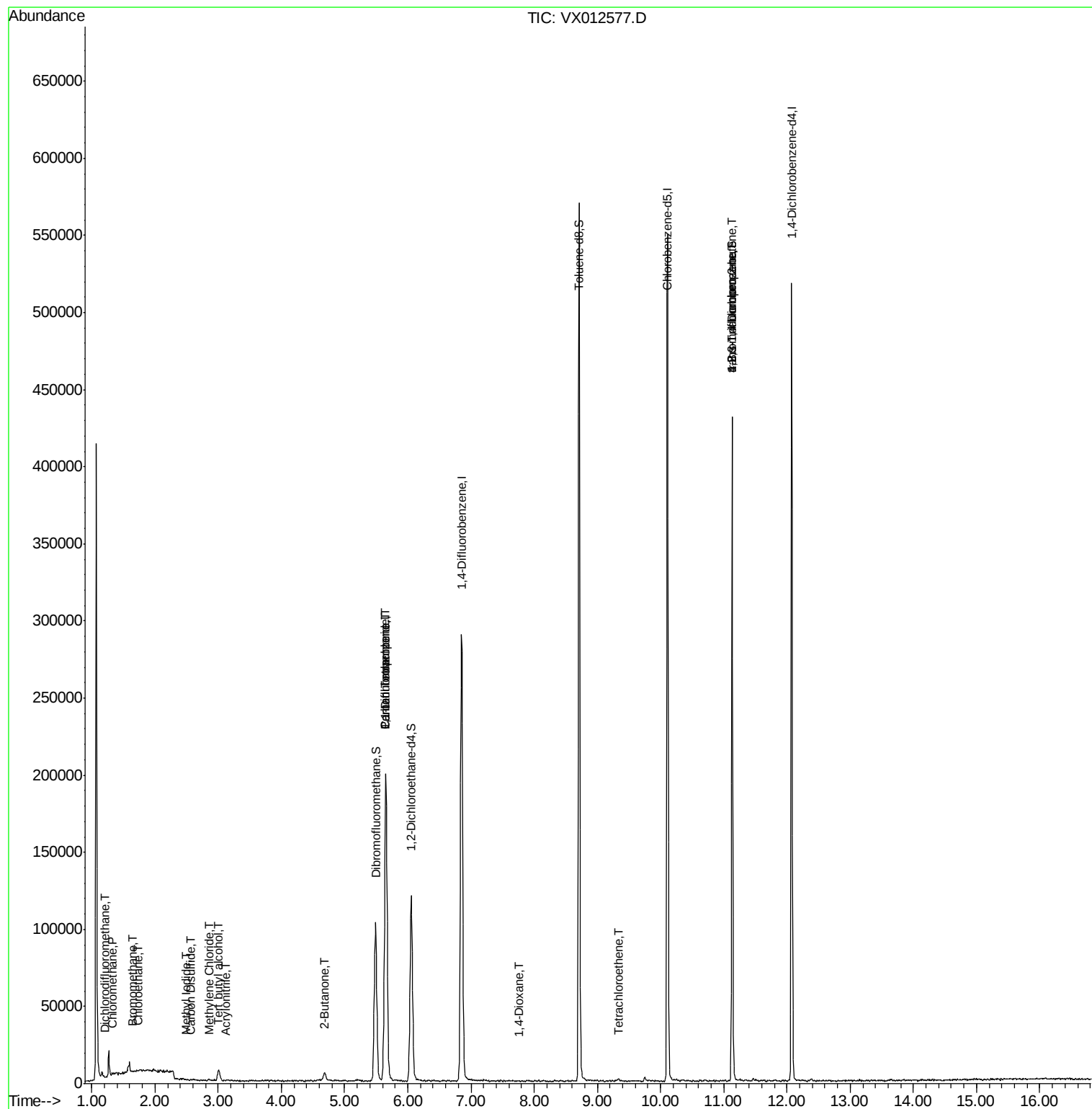
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	121	0.493	ug/l #	43
3) Chloromethane	1.33	50	437	0.451	ug/l	91
5) Bromomethane	1.64	94	569	1.382	ug/l #	60
6) Chloroethane	1.72	64	1028	1.253	ug/l #	48
10) Methyl Iodide	2.50	142	391	4.741	ug/l #	95
11) Tert butyl alcohol	3.00	59	4608	1.346	ug/l #	86
13) Acrolein	2.29	56	336	Below Cal	#	64
15) Acrylonitrile	3.12	53	311	0.284	ug/l	90
16) Acetone	2.42	43	432	Below Cal	#	71
17) Carbon Disulfide	2.56	76	315	2.000	ug/l #	1
20) Methylene Chloride	2.86	84	423	0.276	ug/l #	79
25) 2-Butanone	4.67	43	632	0.360	ug/l #	51
36) 1,1-Dichloropropene	5.65	75	15078	8.799	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19699	9.243	ug/l #	16
49) 1,4-Dioxane	7.75	88	19	0.351	ug/l #	1
64) Tetrachloroethene	9.34	164	266	0.241	ug/l #	55
76) 1,2,3-Trichloropropane	11.14	75	61282	26.747	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	61282	71.980	ug/l #	8

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

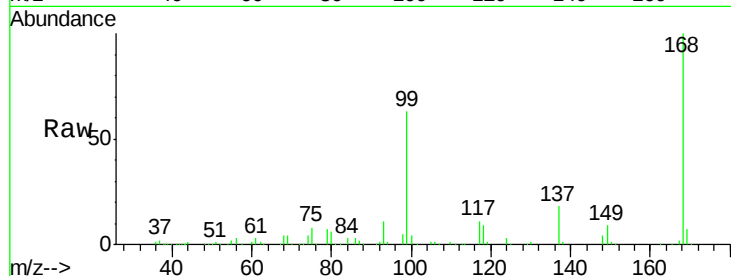
S49-TB-2019-3

Tot Ion:168 Resp: 176424

Ion Ratio Lower Upper

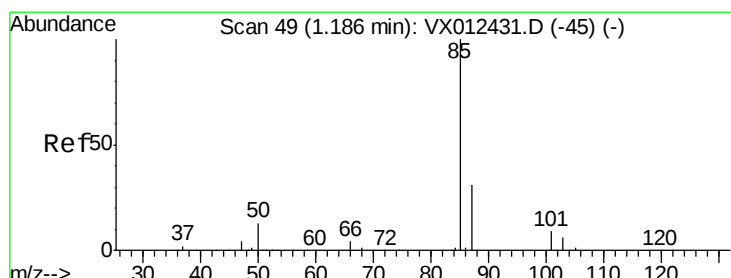
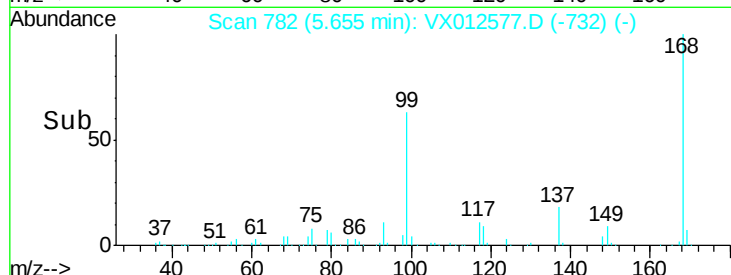
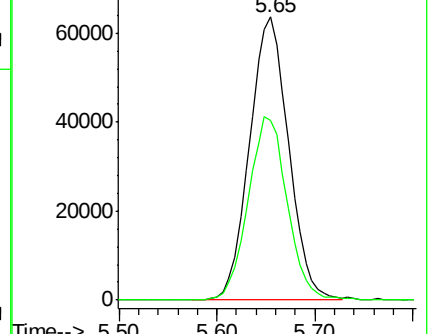
168 100

99 63.4 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.493 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX012577.D

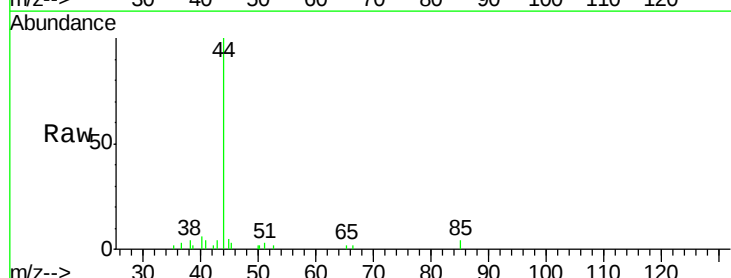
Acq: 20 Sep 2019 23:45

Tgt Ion: 85 Resp: 121

Ion Ratio Lower Upper

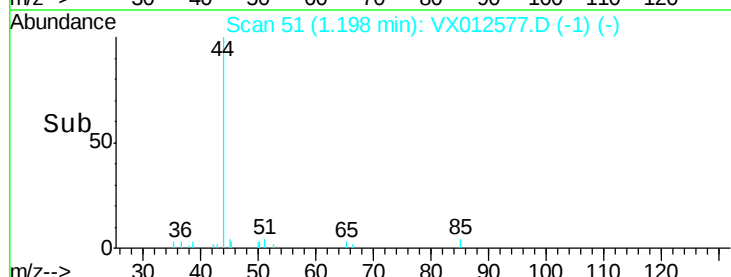
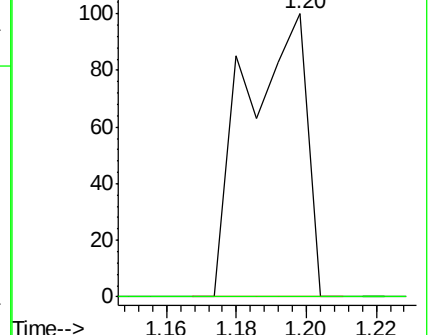
85 100

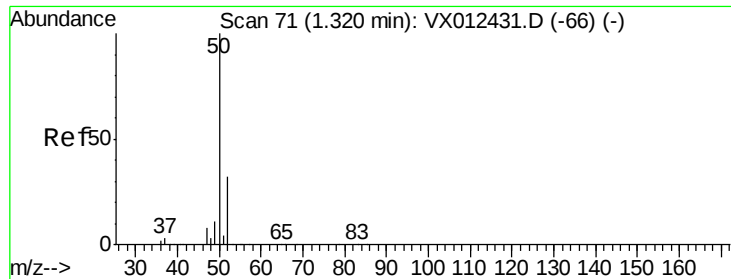
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.451 ug/l

RT: 1.33 min Scan# 72

Delta R.T. 0.01 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

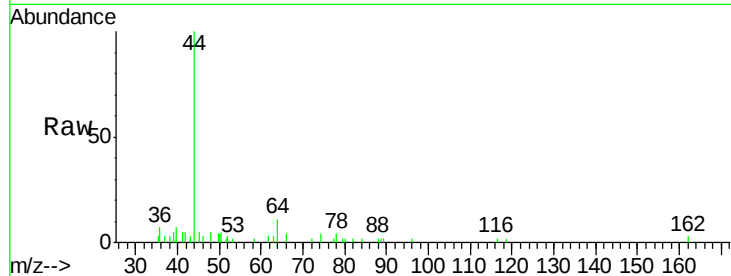
S49-TB-2019-3

Tot Ion: 50 Resp: 437

Ion Ratio Lower Upper

50 100

52 26.8 25.7 38.5

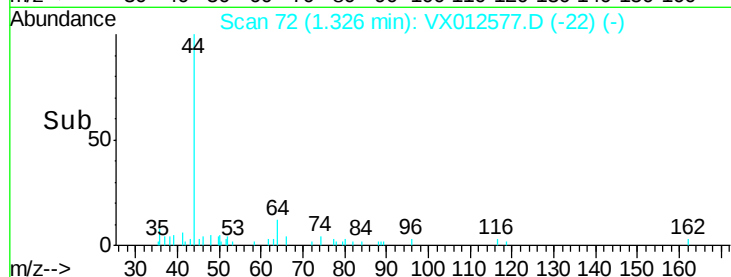


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

Time-->

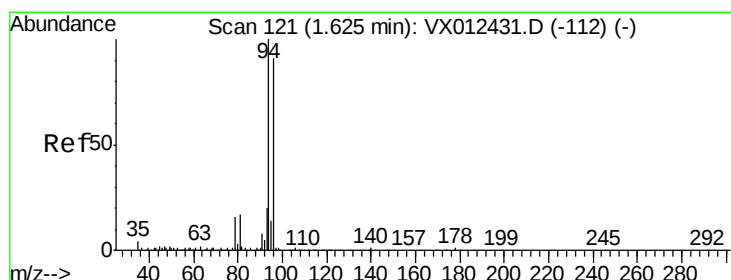


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

Time-->



#5

Bromomethane

Concen: 1.382 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012577.D

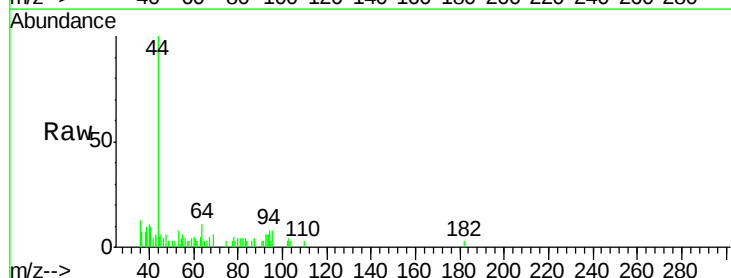
Acq: 20 Sep 2019 23:45

Tgt Ion: 94 Resp: 569

Ion Ratio Lower Upper

94 100

96 52.8 72.8 109.2#

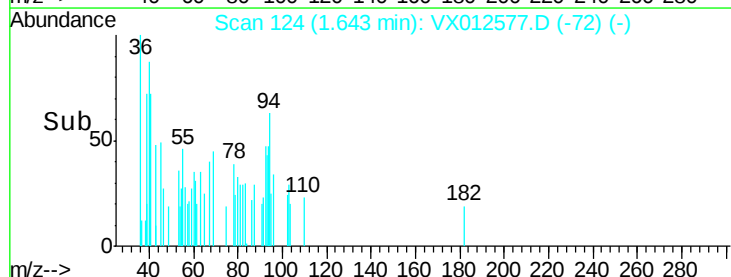


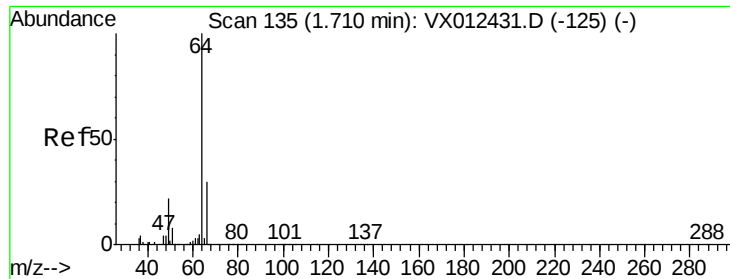
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

Time-->





#6

Chloroethane

Concen: 1.253 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

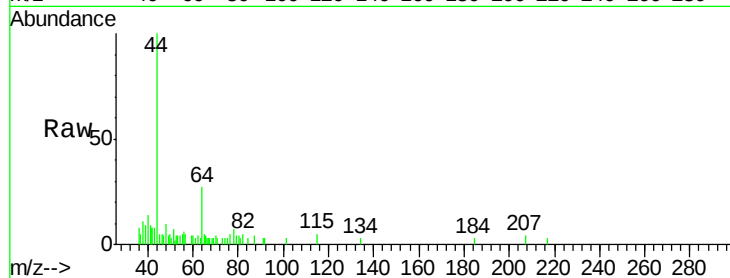
S49-TB-2019-3

Tot Ion: 64 Resp: 1028

Ion Ratio Lower Upper

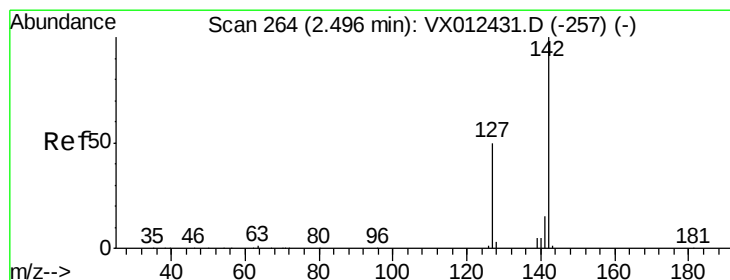
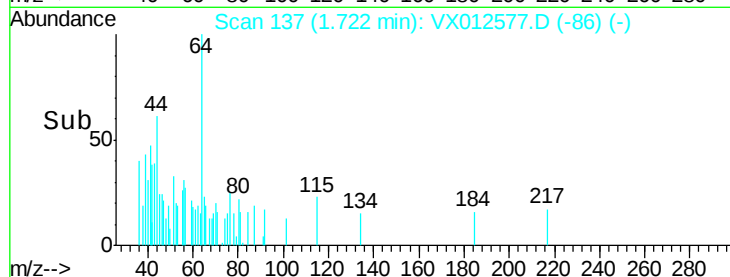
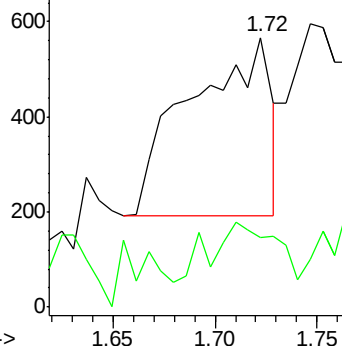
64 100

66 1.6 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.741 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

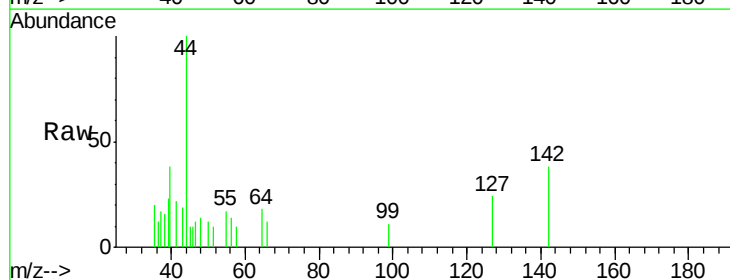
Tgt Ion: 142 Resp: 391

Ion Ratio Lower Upper

142 100

127 50.1 40.8 61.2

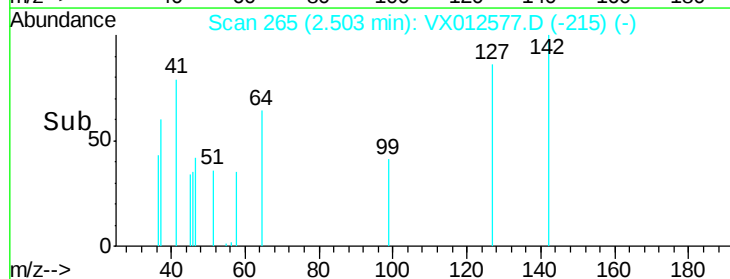
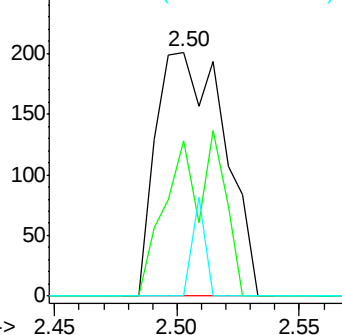
141 7.7 12.1 18.1#

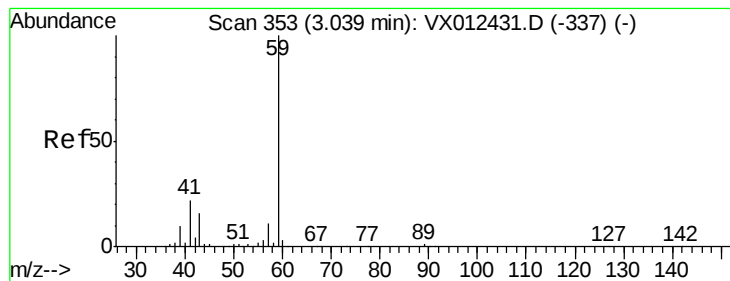


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



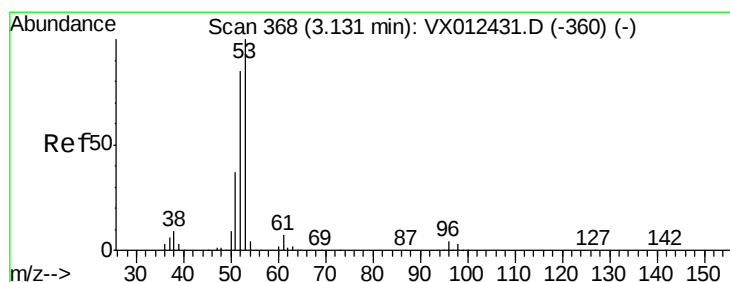
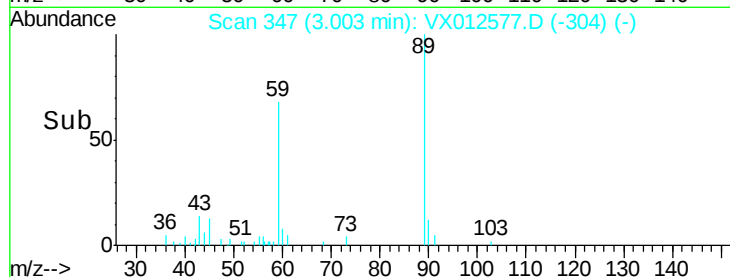
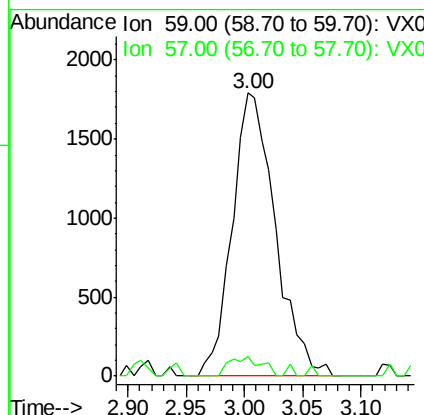
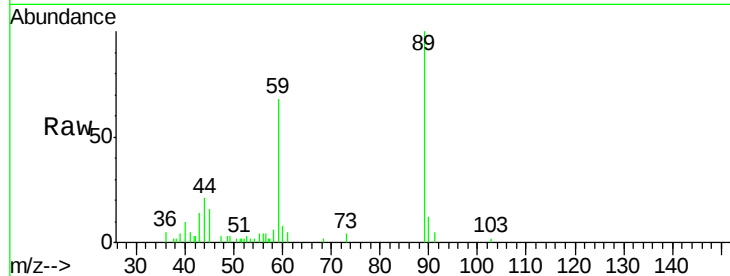


#11

Tert butyl alcohol
 Concen: 1.346 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX012577.D
 Acq: 20 Sep 2019 23:45

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-TB-2019-3

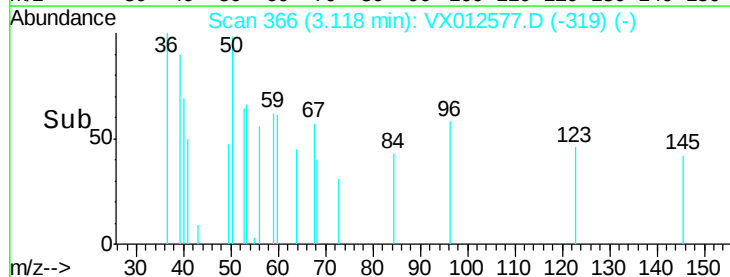
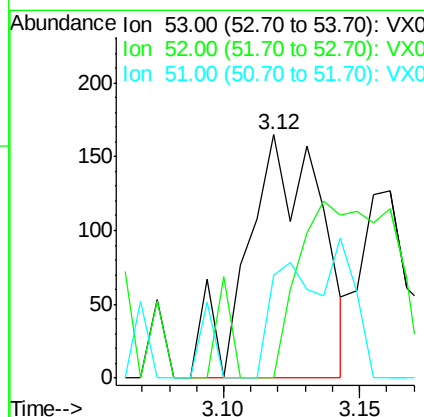
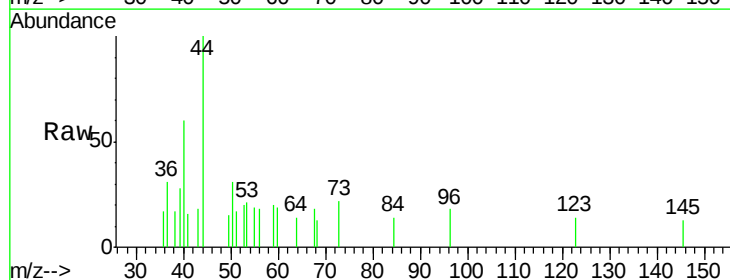
Tot Ion: 59 Resp: 4608
 Ion Ratio Lower Upper
 59 100
 57 5.0 8.3 12.5#

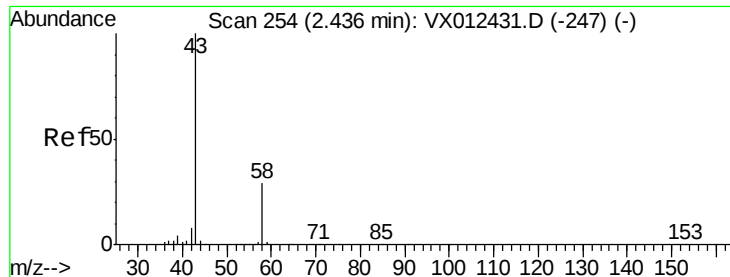


#15

Acrylonitrile
 Concen: 0.284 ug/l
 RT: 3.12 min Scan# 366
 Delta R.T. -0.01 min
 Lab File: VX012577.D
 Acq: 20 Sep 2019 23:45

Tgt Ion: 53 Resp: 311
 Ion Ratio Lower Upper
 53 100
 52 92.6 67.0 100.4
 51 31.2 29.6 44.4





#16

Acetone

Concen: Below Cal

RT: 2.42 min Scan# 252

Delta R.T. -0.01 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

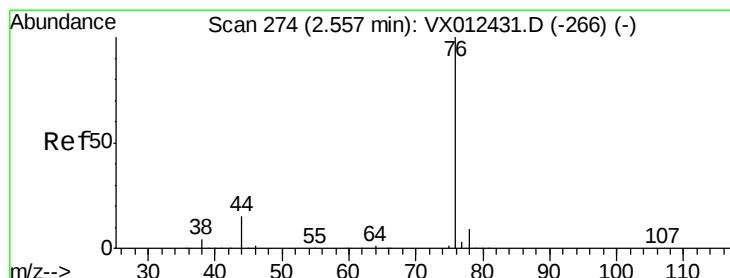
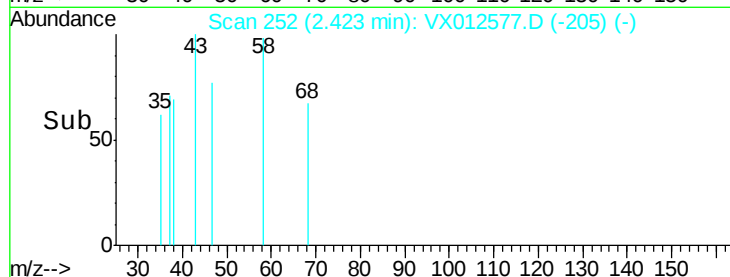
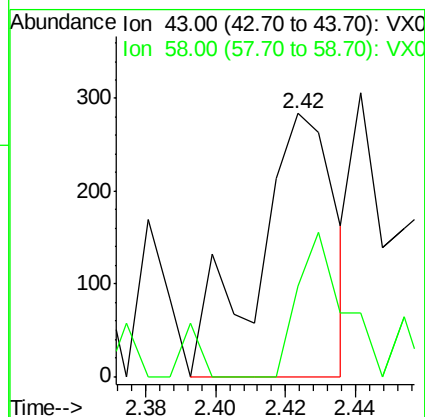
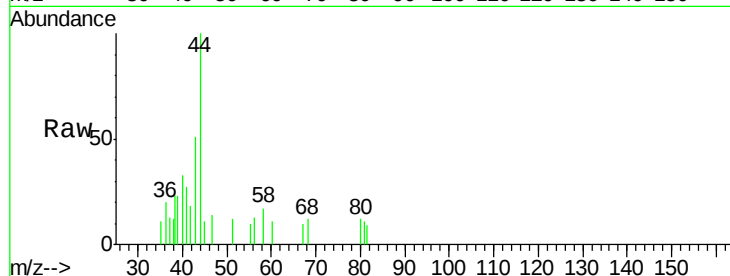
S49-TB-2019-3

Tot Ion: 43 Resp: 432

Ion Ratio Lower Upper

43 100

58 13.7 23.3 34.9#



#17

Carbon Disulfide

Concen: 2.000 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012577.D

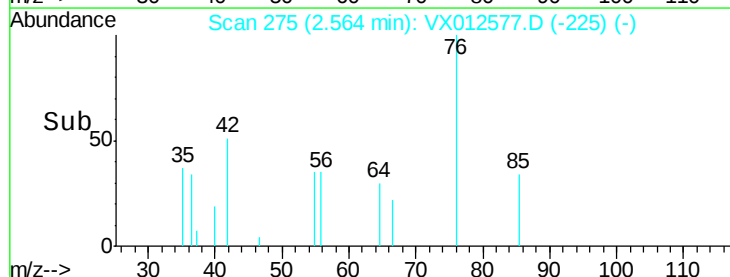
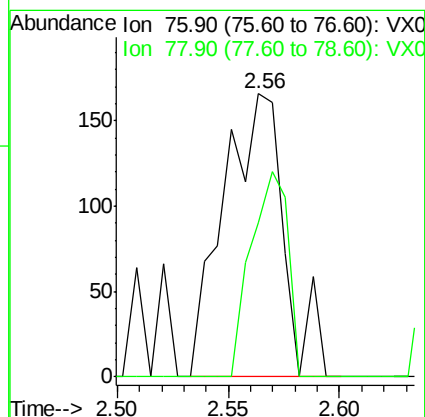
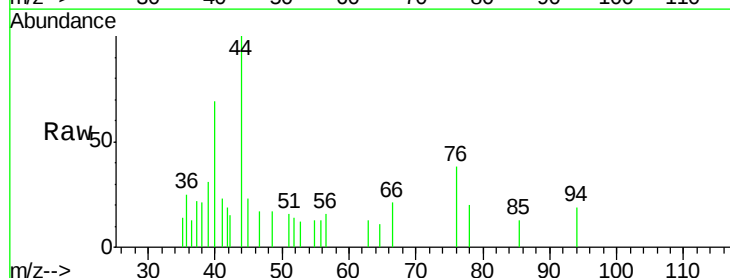
Acq: 20 Sep 2019 23:45

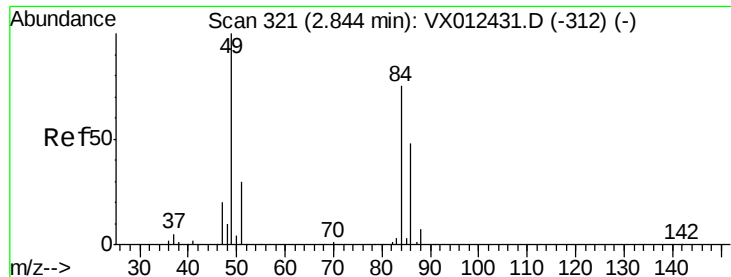
Tgt Ion: 76 Resp: 315

Ion Ratio Lower Upper

76 100

78 54.2 7.3 10.9#





#20

Methvlene Chloride

Concen: 0.276 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2019-3

Tot Ion: 84 Resp: 423

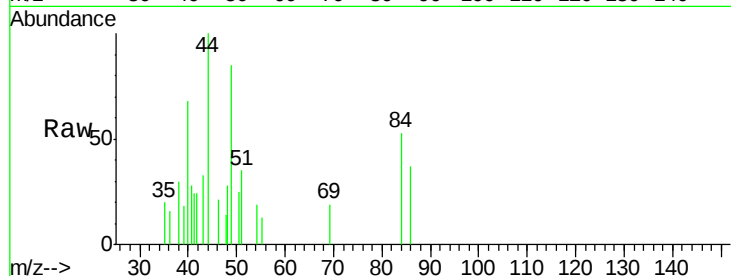
Ion Ratio Lower Upper

84 100

49 160.0 106.8 160.2

51 66.3 32.3 48.5#

86 69.3 51.3 76.9

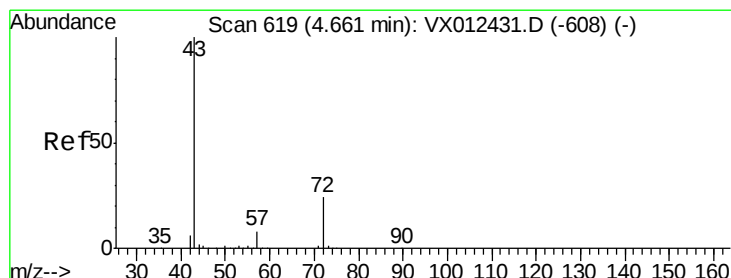
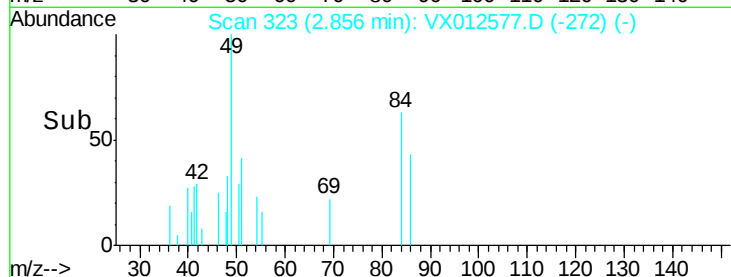
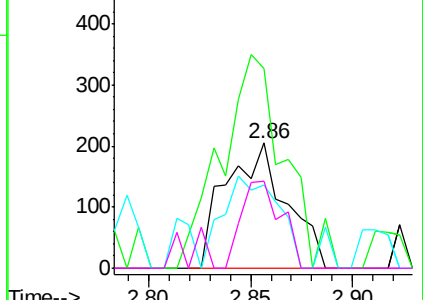


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 0.360 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX012577.D

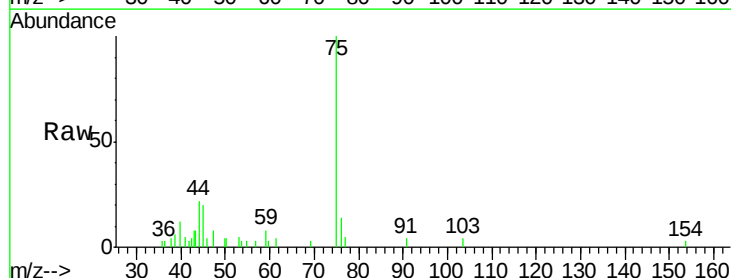
Acq: 20 Sep 2019 23:45

Tgt Ion: 43 Resp: 632

Ion Ratio Lower Upper

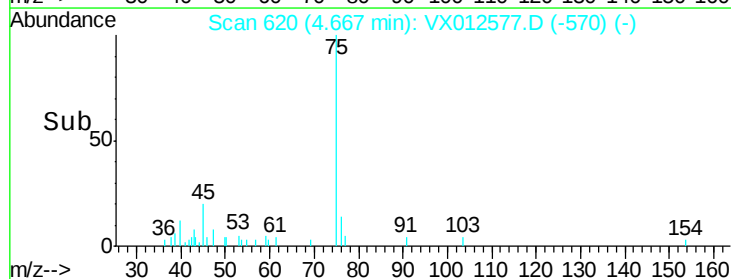
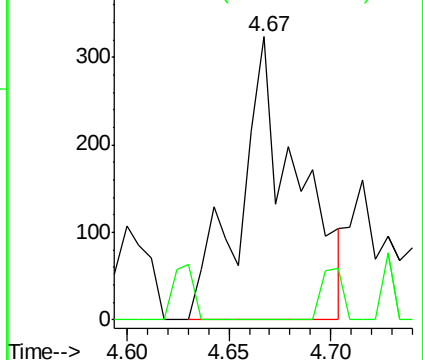
43 100

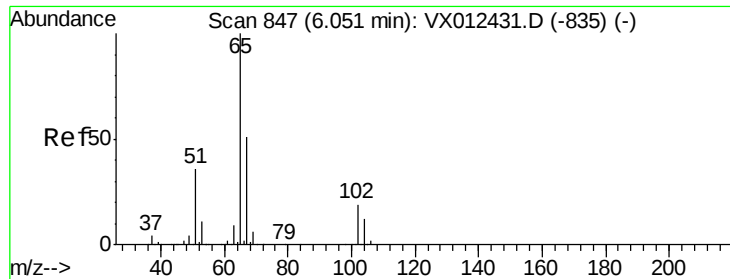
72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.154 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

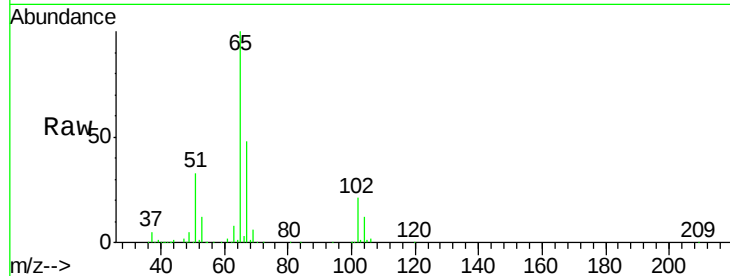
S49-TB-2019-3

Tot Ion: 65 Resp: 119229

Ion Ratio Lower Upper

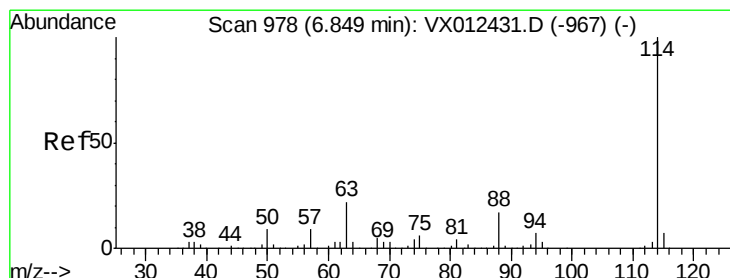
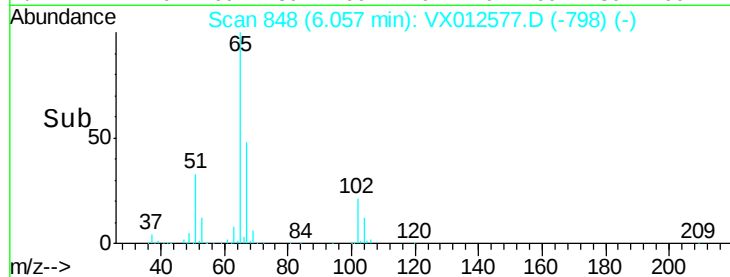
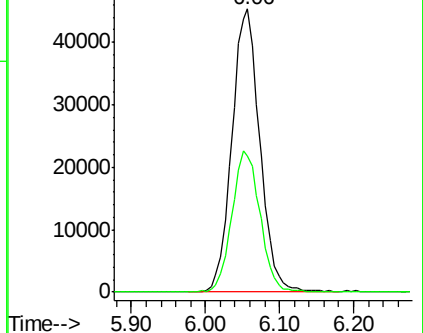
65 100

67 50.3 0.0 101.2



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

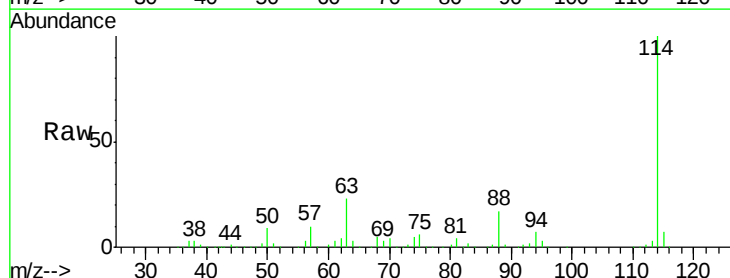
Tgt Ion: 114 Resp: 281943

Ion Ratio Lower Upper

114 100

63 22.7 0.0 43.2

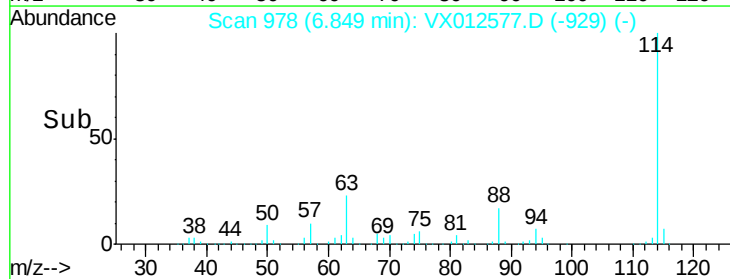
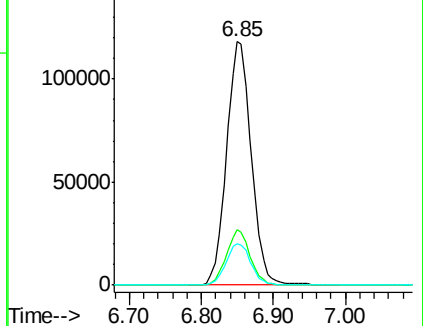
88 17.2 0.0 33.2

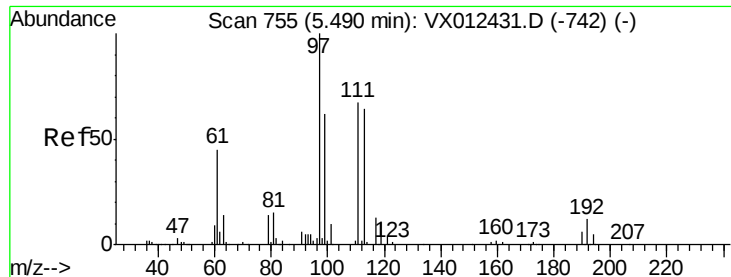


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.610 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2019-3

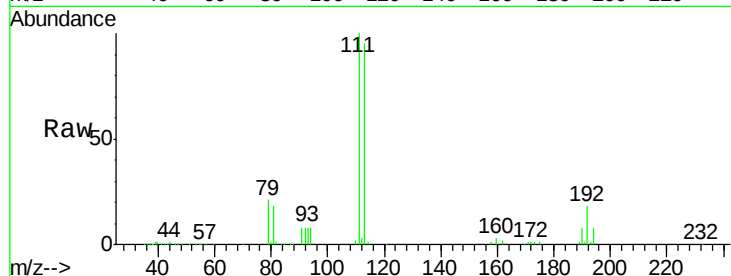
Tot Ion:113 Resp: 84659

Ion Ratio Lower Upper

113 100

111 102.6 83.4 125.2

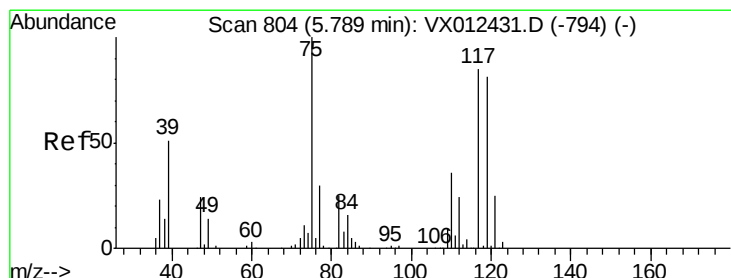
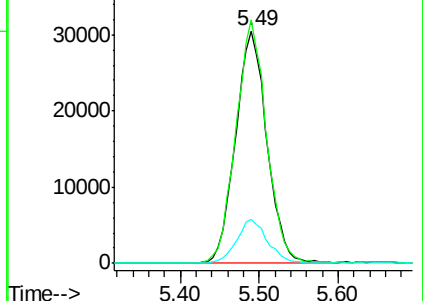
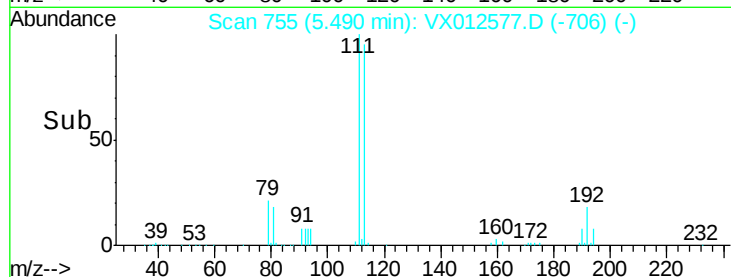
192 18.5 14.4 21.6



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: 8.799 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

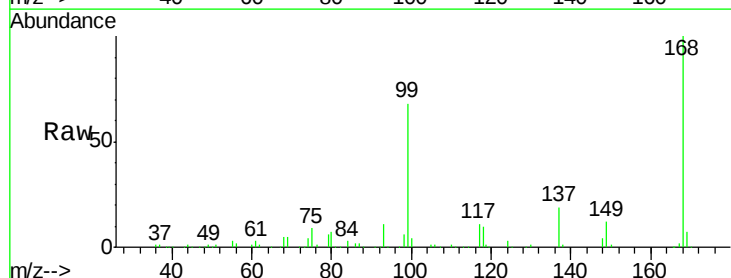
Tgt Ion: 75 Resp: 15078

Ion Ratio Lower Upper

75 100

110 10.2 16.7 50.0#

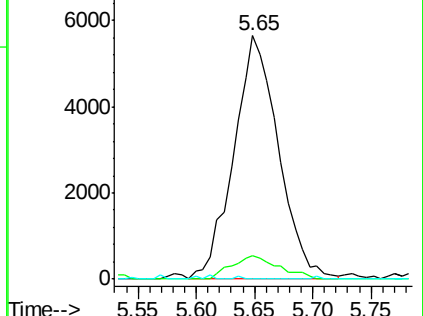
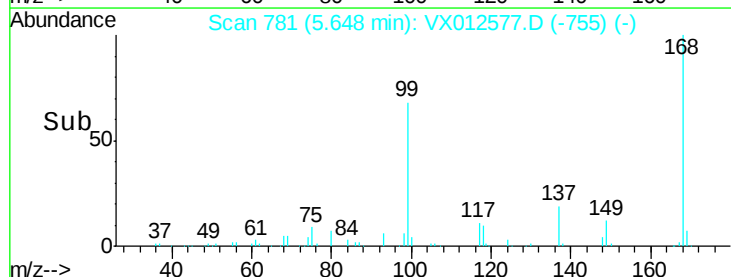
77 0.1 24.2 36.2#

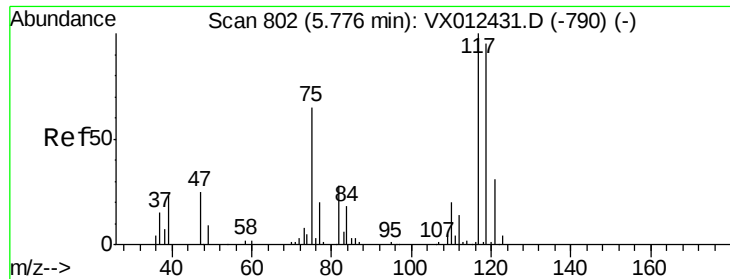


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 9.243 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2019-3

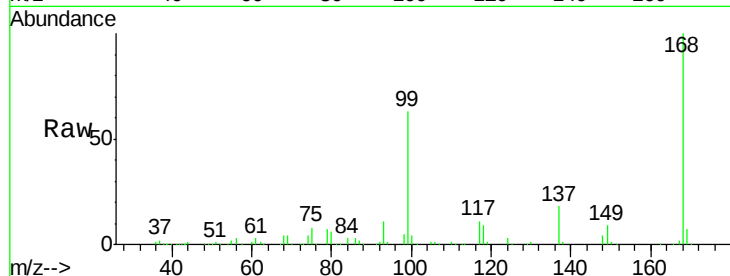
Tot Ion:117 Resp: 19699

Ion Ratio Lower Upper

117 100

119 4.7 75.7 113.5#

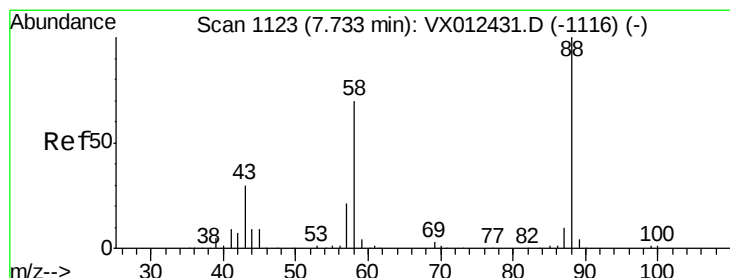
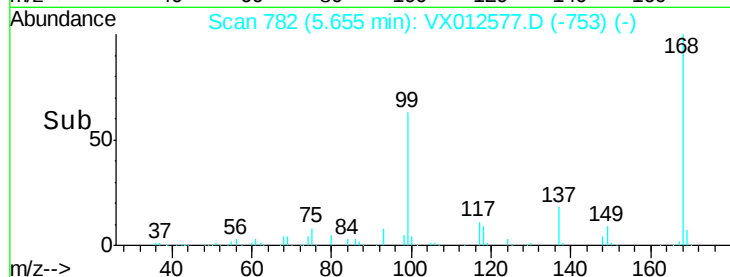
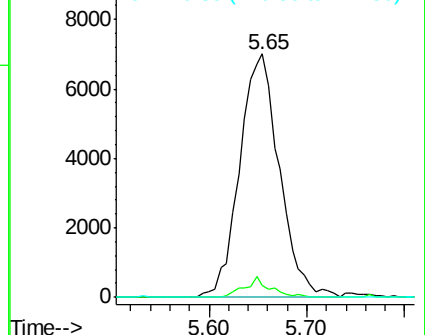
121 0.0 24.2 36.4#



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



#49

1,4-Dioxane

Concen: 0.351 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

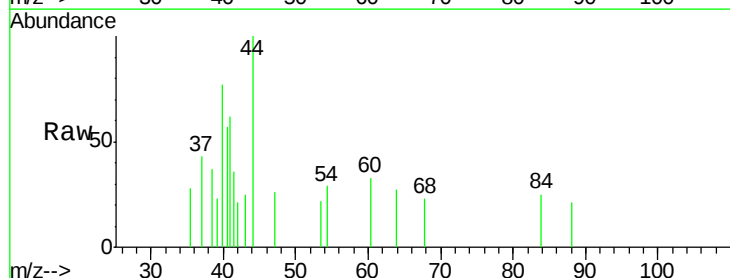
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 221.1 29.4 44.0#

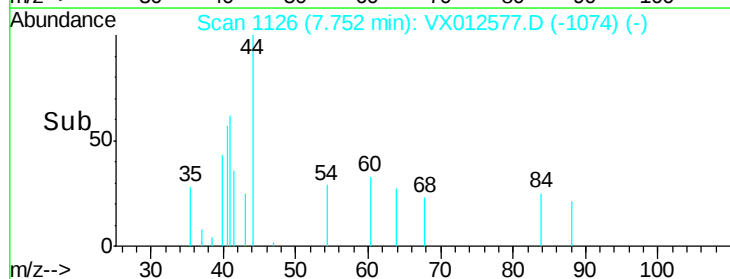
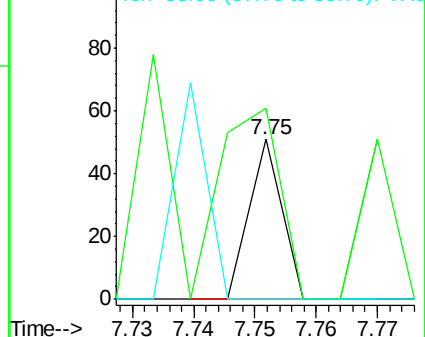
58 0.0 57.5 86.3#

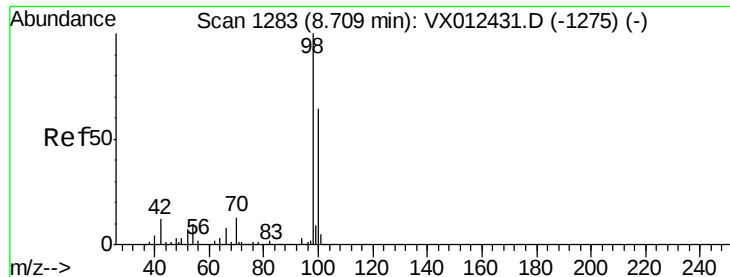


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.902 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

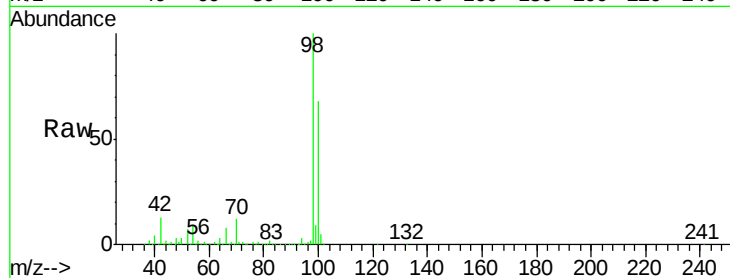
S49-TB-2019-3

Tot Ion: 98 Resp: 327836

Ion Ratio Lower Upper

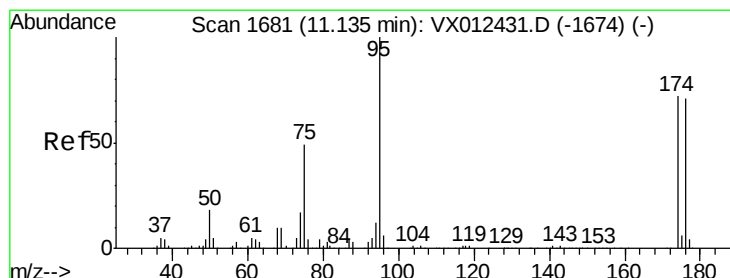
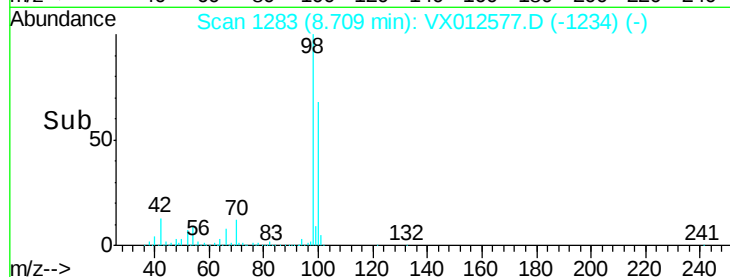
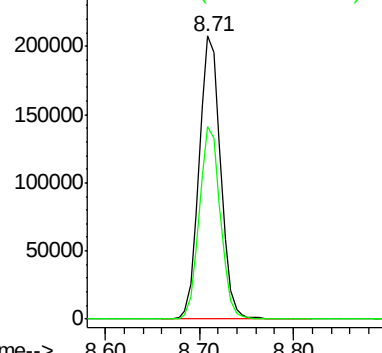
98 100

100 66.8 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 44.687 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

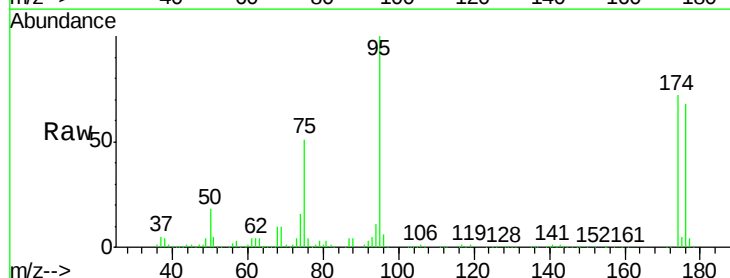
Tgt Ion: 95 Resp: 117198

Ion Ratio Lower Upper

95 100

174 70.6 0.0 140.0

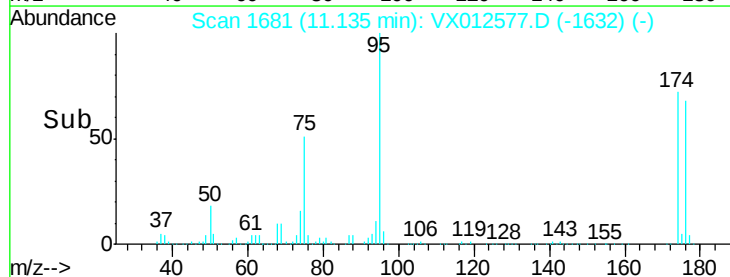
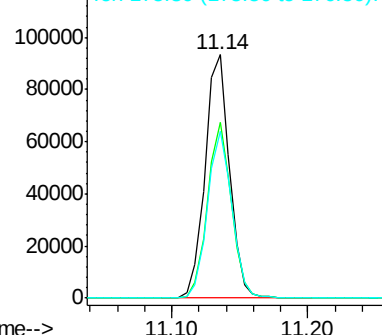
176 68.3 0.0 135.4

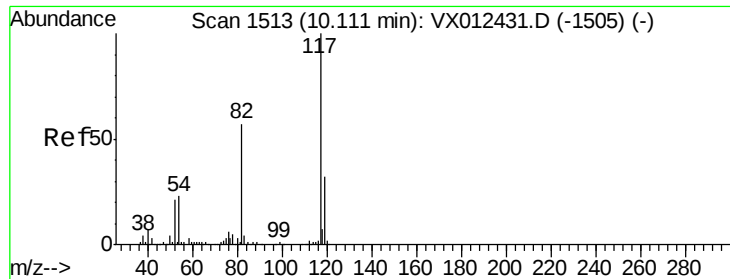


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

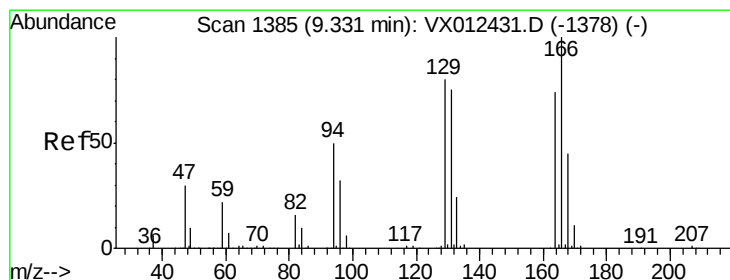
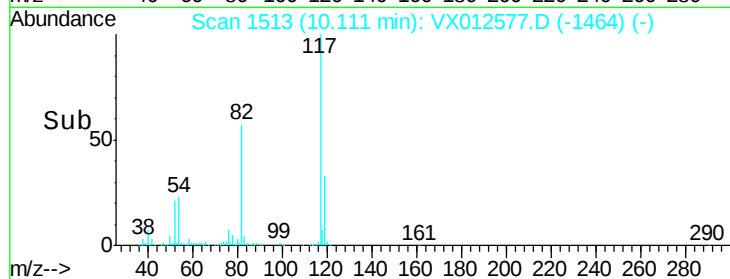
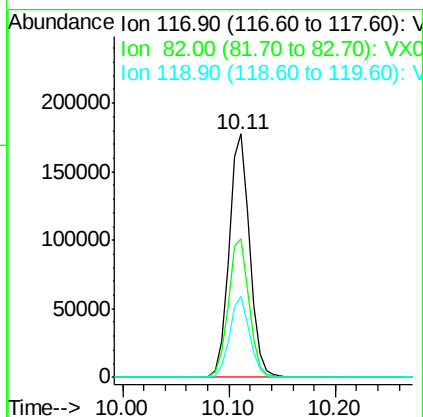
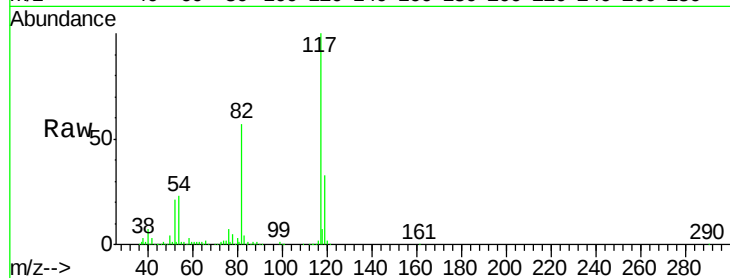




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012577.D
Acq: 20 Sep 2019 23:45

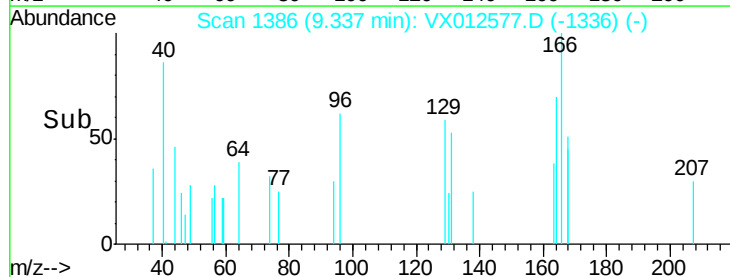
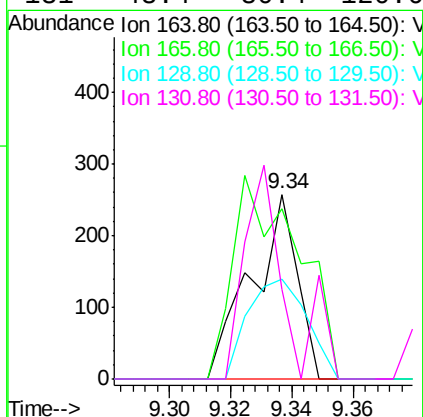
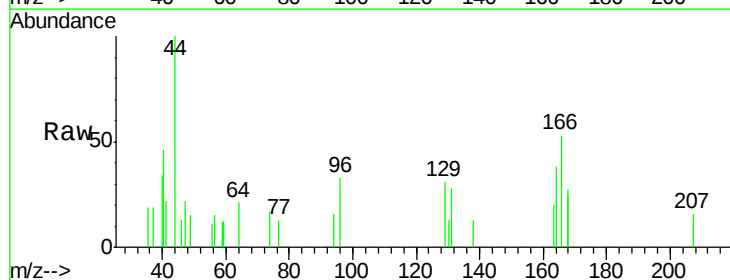
Instrument :
MSVOA_X
ClientSampleId :
S49-TB-2019-3

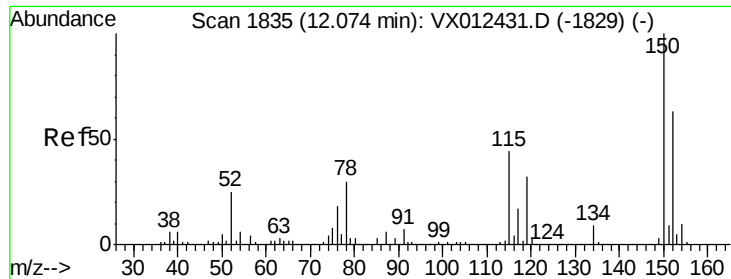
Tot Ion:117 Resp: 240553
Ion Ratio Lower Upper
117 100
82 56.9 45.9 68.9
119 33.1 25.3 37.9



#64
Tetrachloroethene
Concen: 0.241 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX012577.D
Acq: 20 Sep 2019 23:45

Tgt Ion:164 Resp: 266
Ion Ratio Lower Upper
164 100
166 91.9 107.8 161.6#
129 54.3 86.2 129.2#
131 48.4 80.4 120.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2019-3

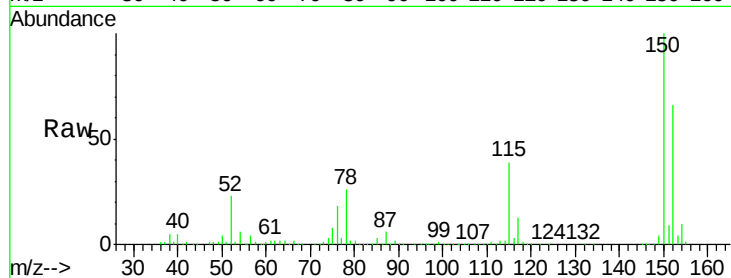
Tot Ion:152 Resp: 99743

Ion Ratio Lower Upper

152 100

115 61.2 44.1 132.3

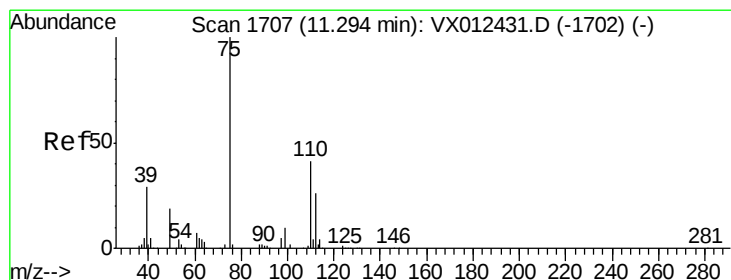
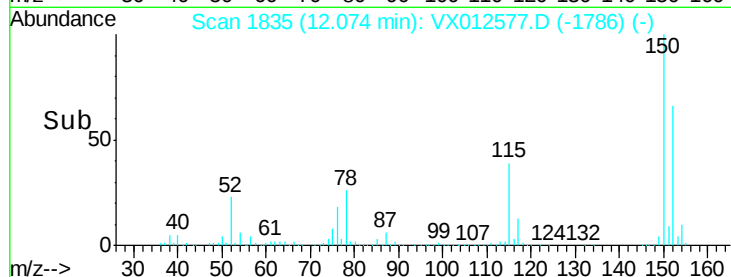
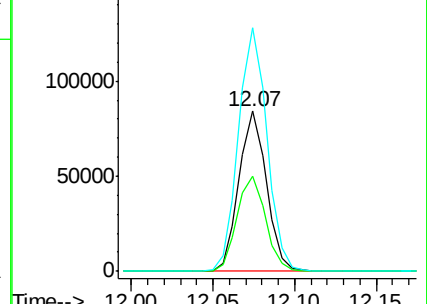
150 156.6 0.0 343.8



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: 26.747 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012577.D

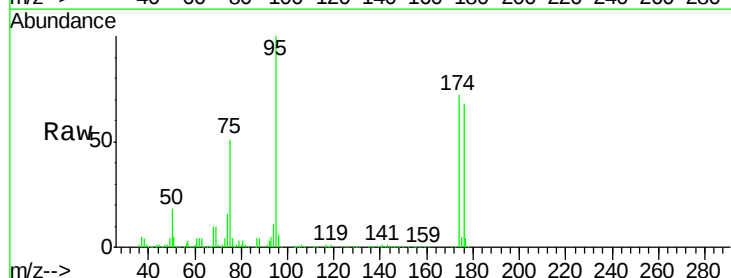
Acq: 20 Sep 2019 23:45

Tgt Ion: 75 Resp: 61282

Ion Ratio Lower Upper

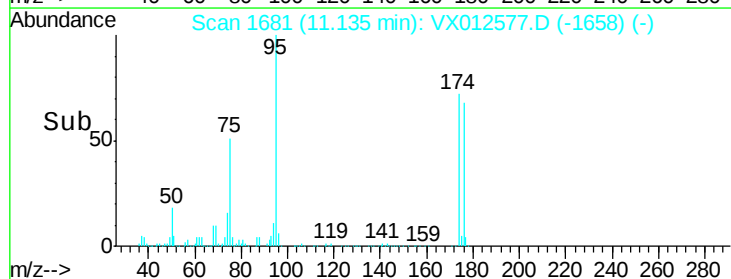
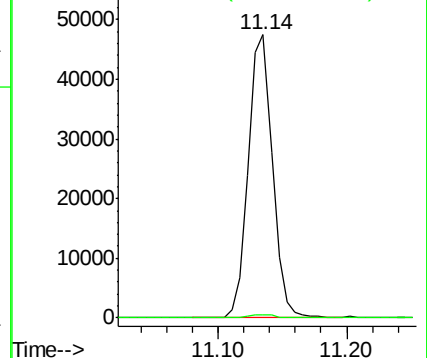
75 100

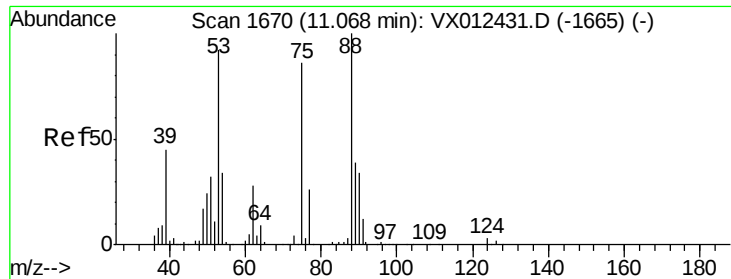
77 1.3 19.7 59.0#



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: 71.980 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012577.D

Acq: 20 Sep 2019 23:45

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2019-3

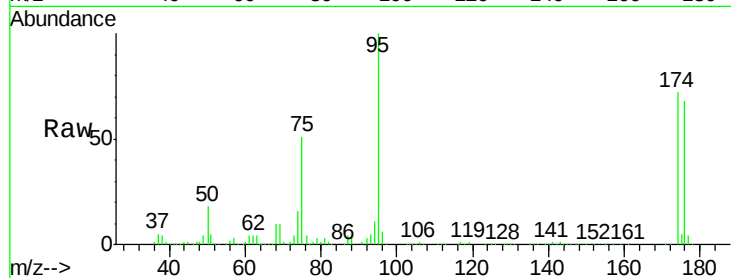
Tot Ion: 75 Resp: 61282

Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

