

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092619\
 Data File : VX012673.D
 Acq On : 26 Sep 2019 14:52
 Operator : JC/SP
 Sample : K5048-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0525

Quant Time: Sep 26 23:34:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	162155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	283020	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	238652	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	95405	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	119690	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
35) Dibromofluoromethane	5.49	113	84577	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
50) Toluene-d8	8.71	98	332251	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
62) 4-Bromofluorobenzene	11.14	95	116453	45.63	ug/l	0.00
Spiked Amount			Recovery	=	91.26%	

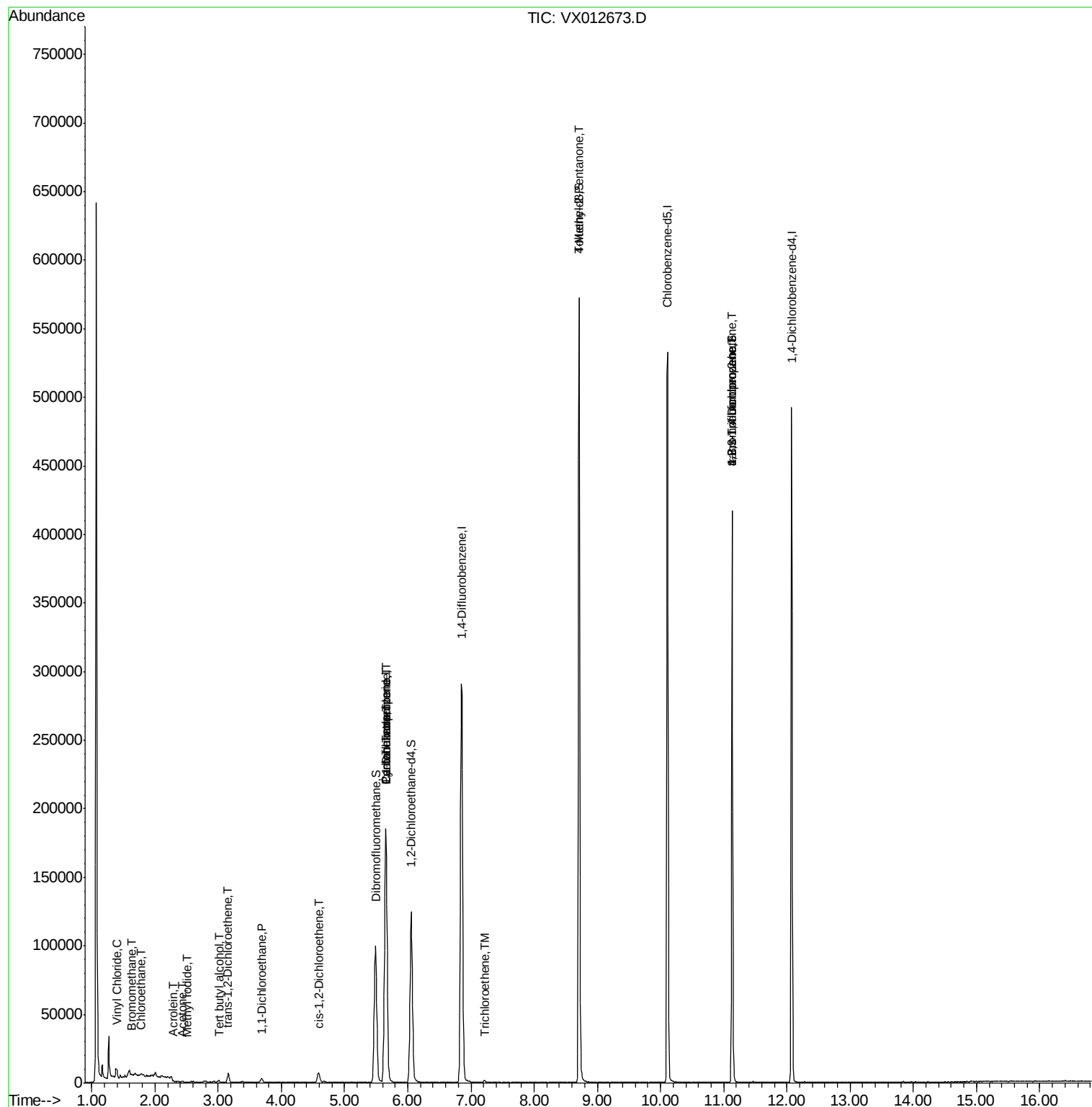
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	892	0.428	ug/l	95
5) Bromomethane	1.64	94	297	0.363	ug/l	86
6) Chloroethane	1.77	64	318	0.227	ug/l #	45
10) Methyl Iodide	2.51	142	223	5.060	ug/l #	54
11) Tert butyl alcohol	3.01	59	792	1.343	ug/l #	72
13) Acrolein	2.29	56	46	10.367	ug/l #	15
16) Acetone	2.44	43	605	0.484	ug/l #	46
21) trans-1,2-Dichloroethene	3.16	96	2627	1.360	ug/l	96
24) 1,1-Dichloroethane	3.69	63	3167	0.872	ug/l #	92
27) cis-1,2-Dichloroethene	4.59	96	4426	1.975	ug/l	88
31) Cyclohexane	5.65	56	4136	1.258	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14925	5.471	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19134	6.905	ug/l #	18
44) Trichloroethene	7.21	130	599	0.292	ug/l	61
51) 4-Methyl-2-Pentanone	8.71	43	1658	0.504	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	61001	24.171	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	61001	69.269	ug/l #	8

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampleId :

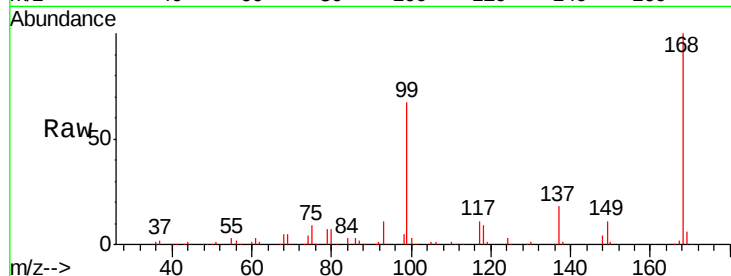
S49-0525

Tgt Ion:168 Resp: 162155

Ion Ratio Lower Upper

168 100

99 66.7 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

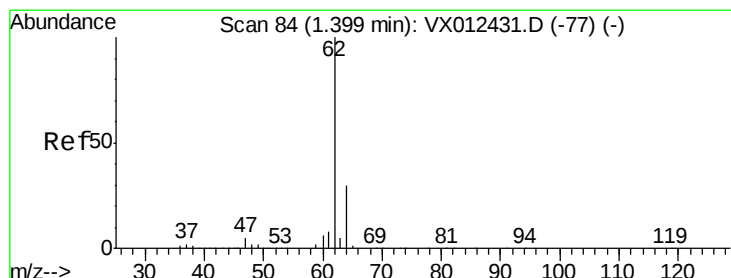
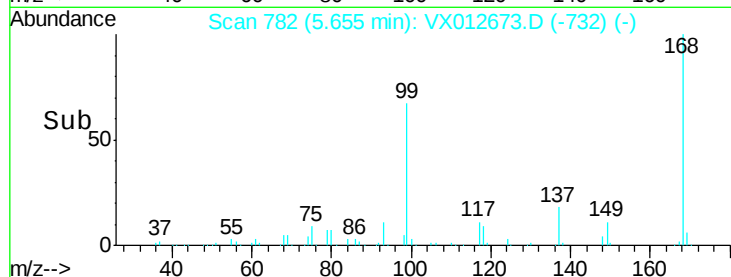
60000

40000

20000

0

Time--> 5.50 5.60 5.70



#4

Vinyl Chloride

Concen: 0.428 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012673.D

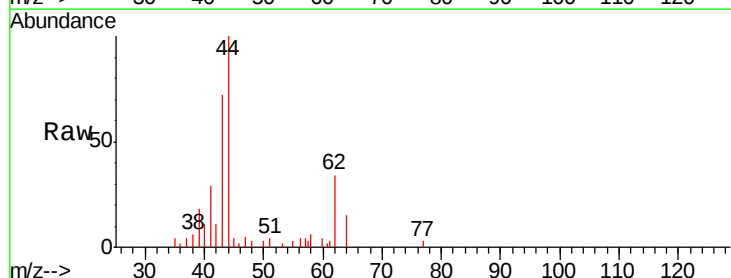
Acq: 26 Sep 2019 14:52

Tgt Ion: 62 Resp: 892

Ion Ratio Lower Upper

62 100

64 27.6 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

1000

800

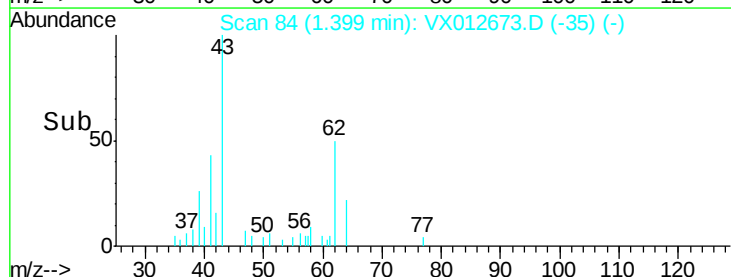
600

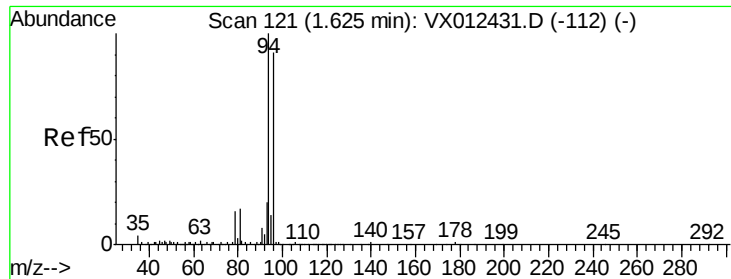
400

200

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 0.363 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampleId :

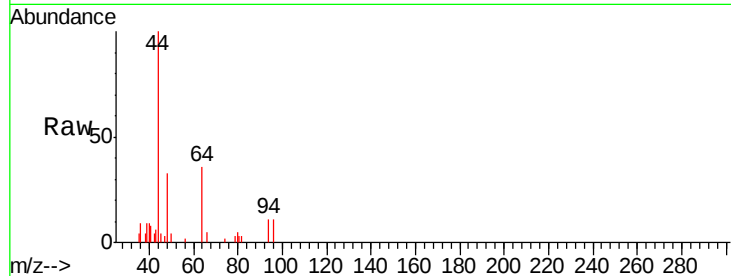
S49-0525

Tgt Ion: 94 Resp: 297

Ion Ratio Lower Upper

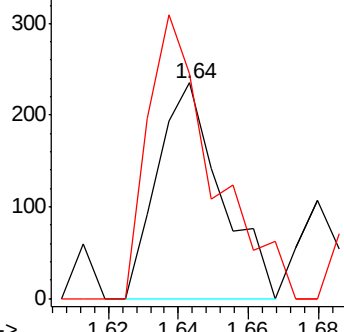
94 100

96 104.3 72.8 109.2

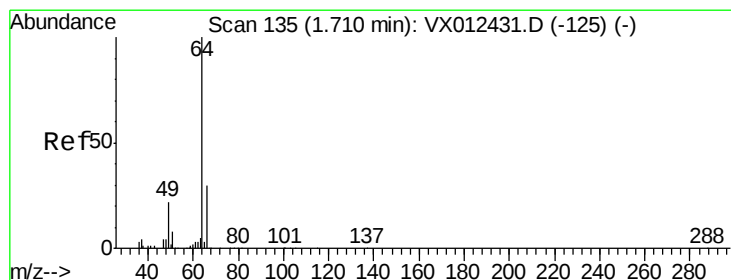
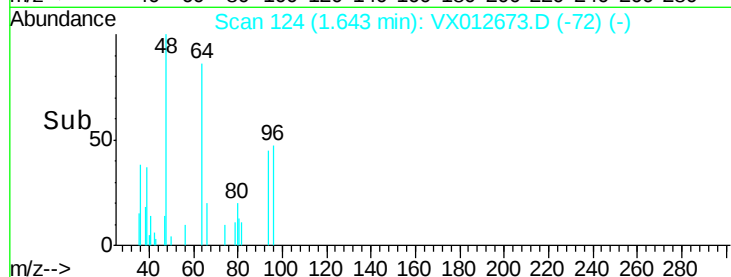


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.227 ug/l

RT: 1.77 min Scan# 144

Delta R.T. 0.06 min

Lab File: VX012673.D

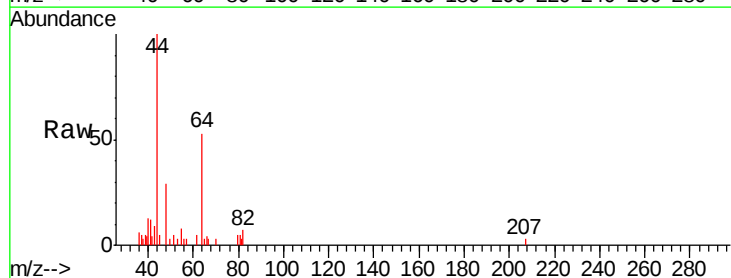
Acq: 26 Sep 2019 14:52

Tgt Ion: 64 Resp: 318

Ion Ratio Lower Upper

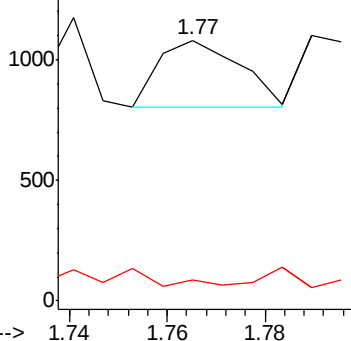
64 100

66 0.0 24.0 36.0#

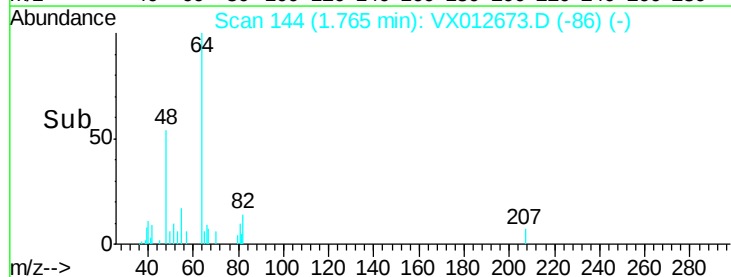


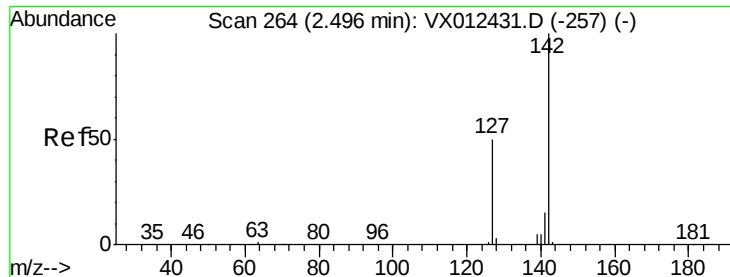
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#10

Methyl Iodide

Concen: 5.060 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampled :

S49-0525

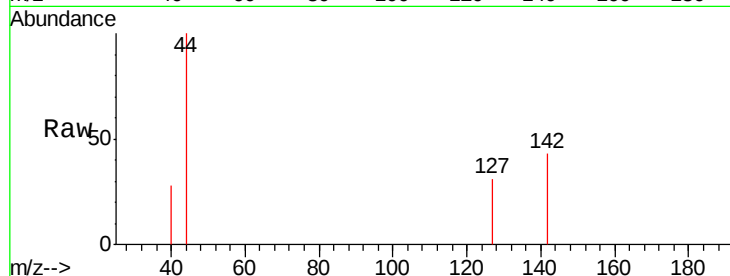
Tgt Ion: 142 Resp: 223

Ion Ratio Lower Upper

142 100

127 85.2 40.8 61.2#

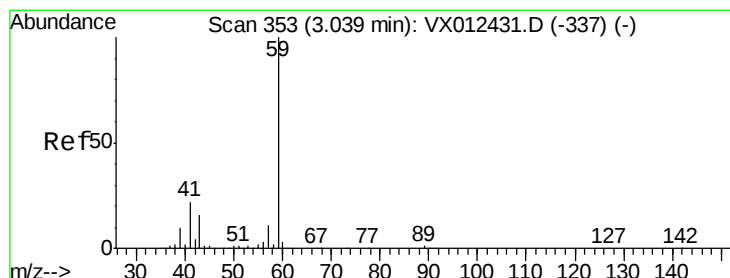
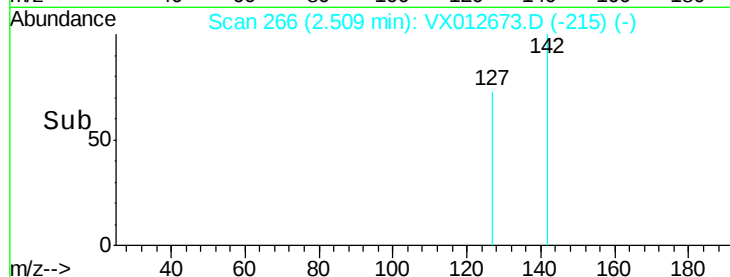
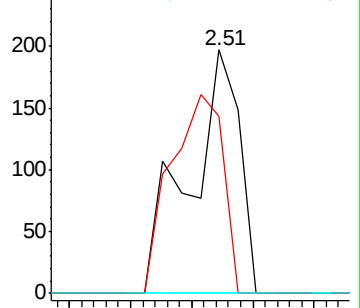
141 0.0 12.1 18.1#



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: 1.343 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX012673.D

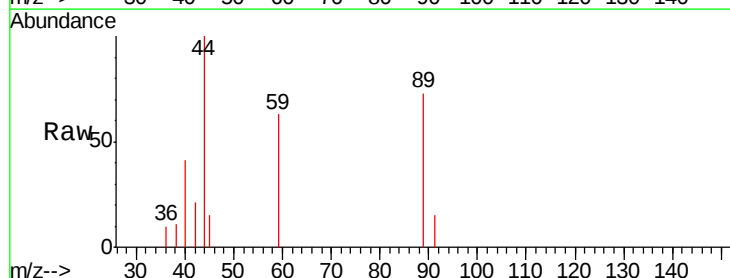
Acq: 26 Sep 2019 14:52

Tgt Ion: 59 Resp: 792

Ion Ratio Lower Upper

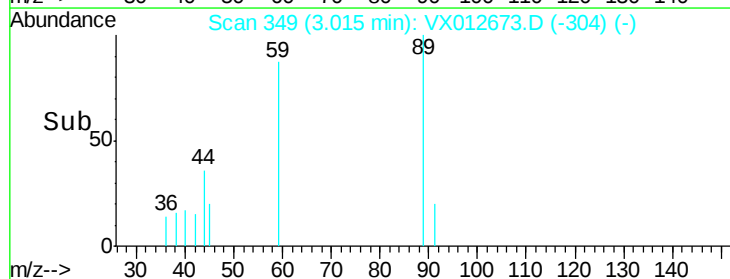
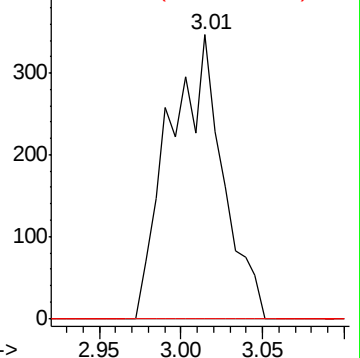
59 100

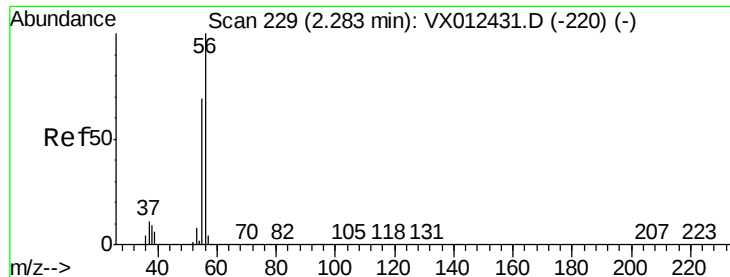
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 10.367 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampled :

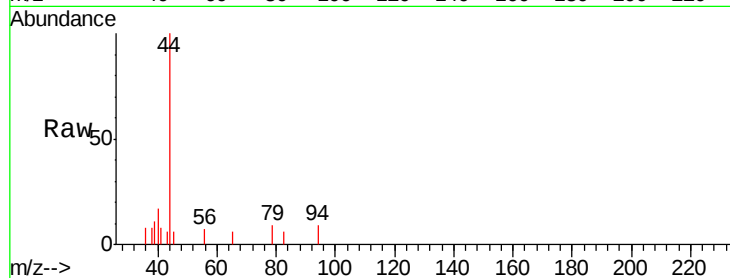
S49-0525

Tgt Ion: 56 Resp: 46

Ion Ratio Lower Upper

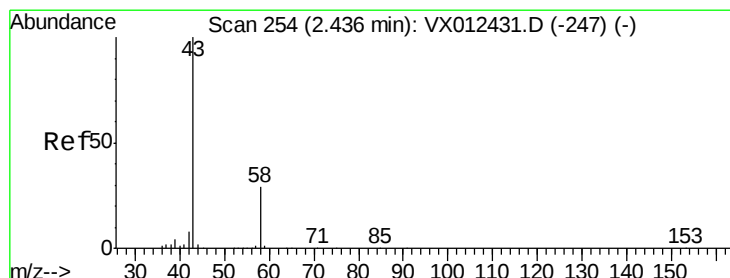
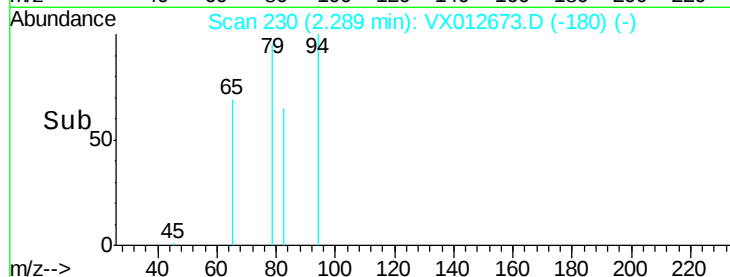
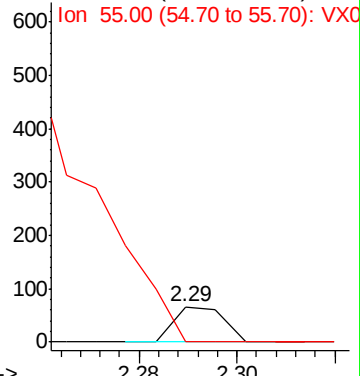
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.484 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012673.D

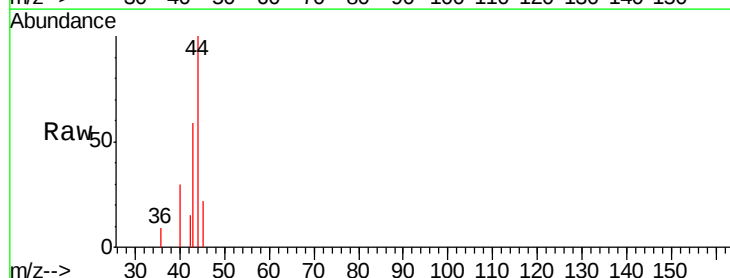
Acq: 26 Sep 2019 14:52

Tgt Ion: 43 Resp: 605

Ion Ratio Lower Upper

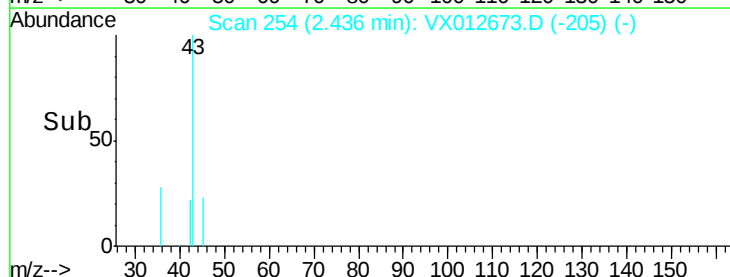
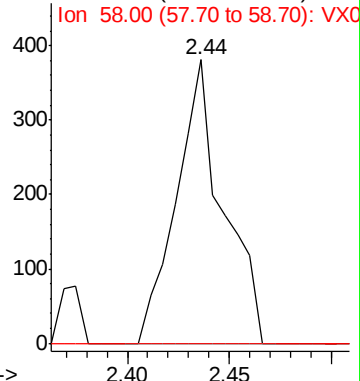
43 100

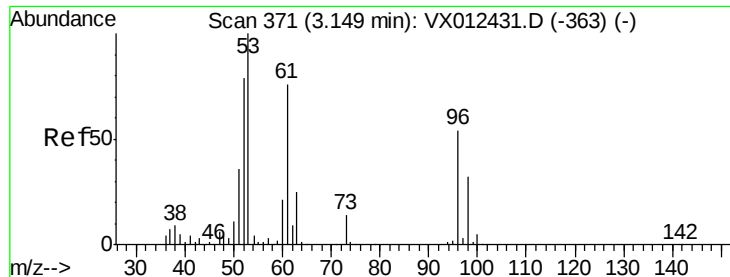
58 0.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 1.360 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampled :

S49-0525

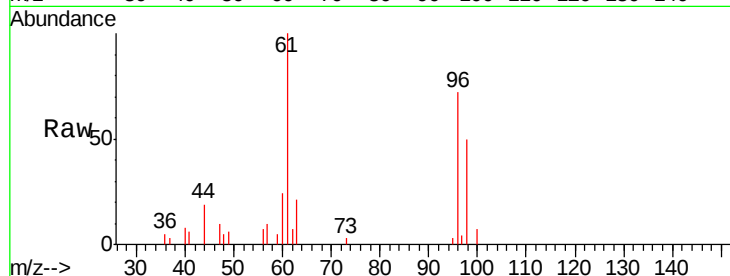
Tgt Ion: 96 Resp: 2627

Ion Ratio Lower Upper

96 100

61 139.0 112.0 168.0

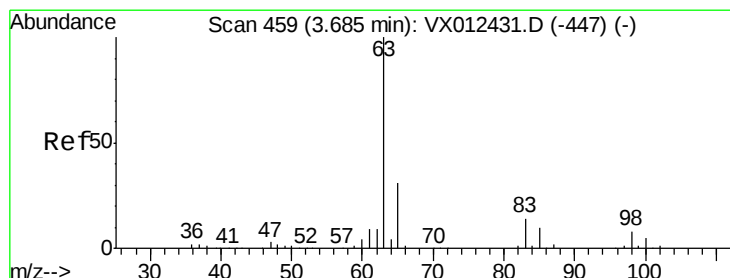
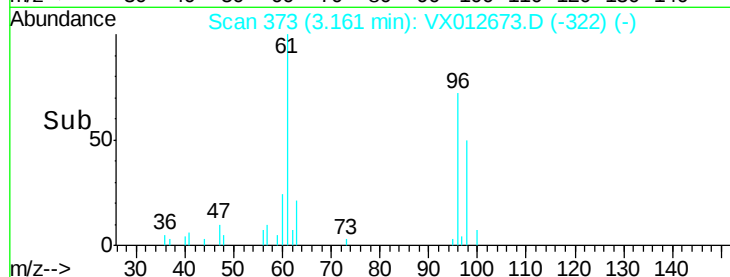
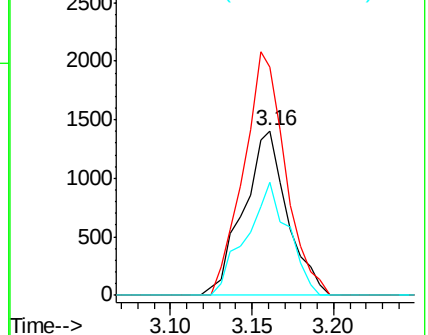
98 68.9 47.8 71.8



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



#24

1,1-Dichloroethane

Concen: 0.872 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

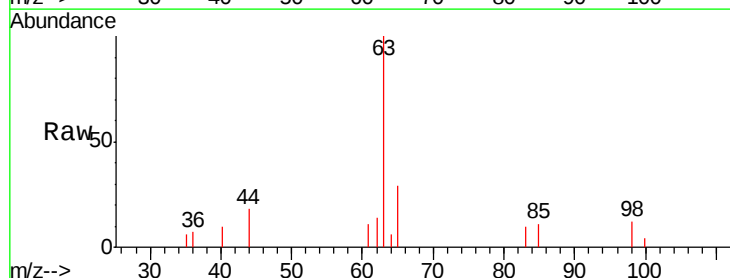
Tgt Ion: 63 Resp: 3167

Ion Ratio Lower Upper

63 100

98 11.8 3.9 11.7#

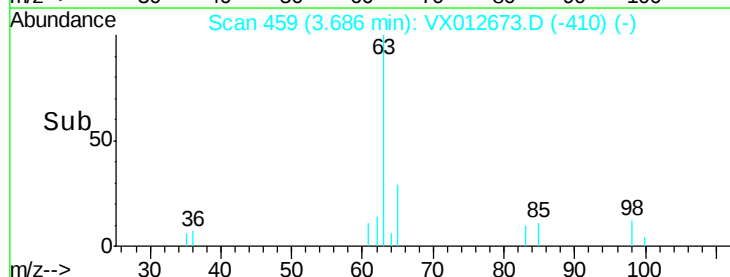
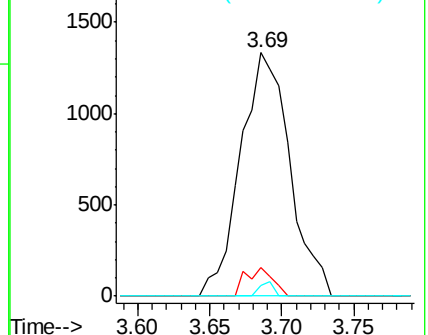
100 4.2 2.3 6.9

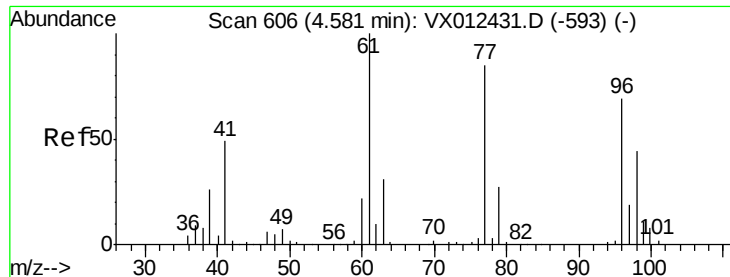


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



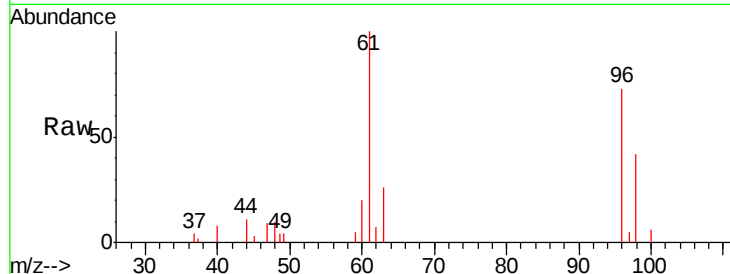


#27

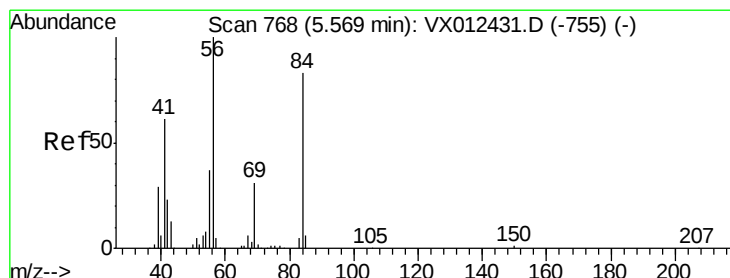
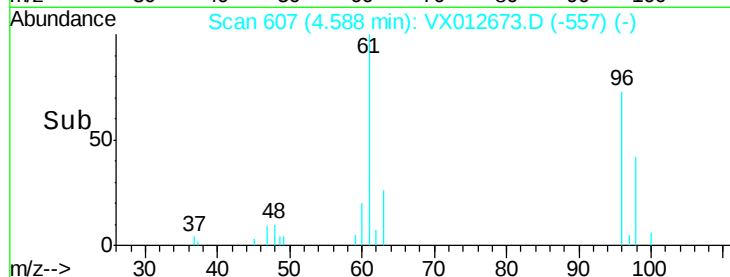
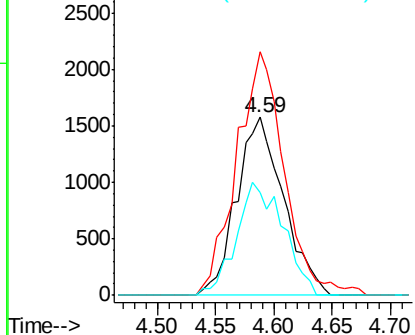
cis-1,2-Dichloroethene
 Concen: 1.975 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX012673.D
 Acq: 26 Sep 2019 14:52

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0525

Tgt Ion: 96 Resp: 4426
 Ion Ratio Lower Upper
 96 100
 61 139.0 0.0 319.4
 98 62.9 0.0 130.6



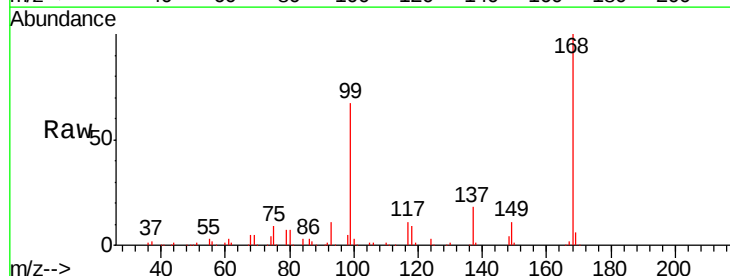
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



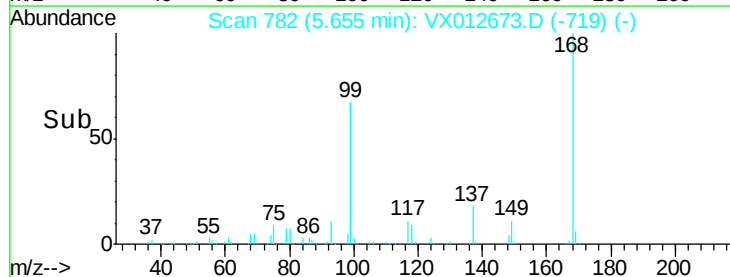
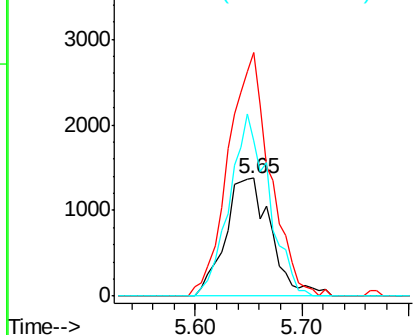
#31

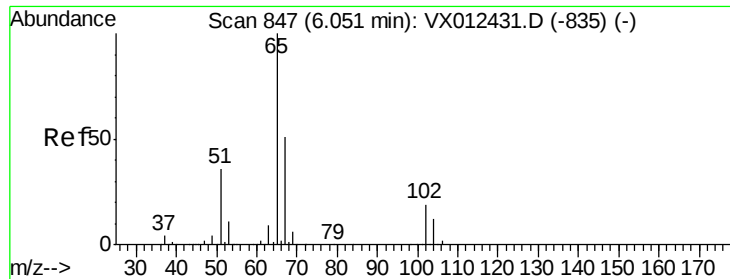
Cyclohexane
 Concen: 1.258 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.09 min
 Lab File: VX012673.D
 Acq: 26 Sep 2019 14:52

Tgt Ion: 56 Resp: 4136
 Ion Ratio Lower Upper
 56 100
 69 206.4 25.0 37.6#
 84 131.4 66.4 99.6#



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

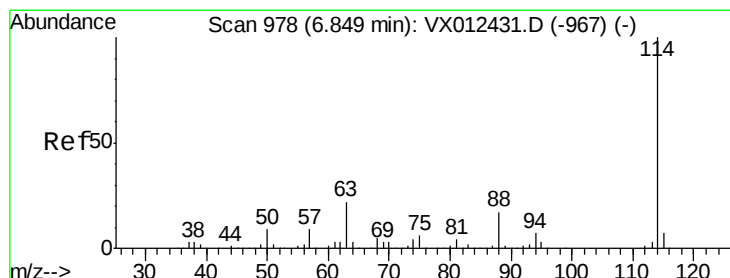
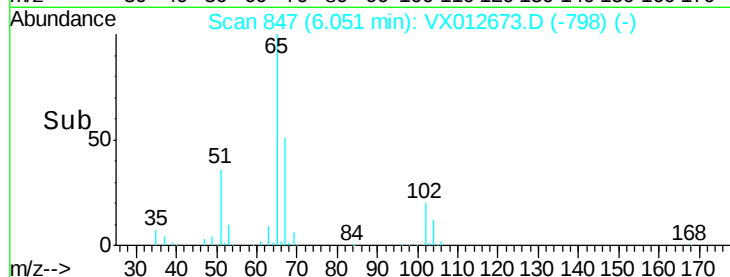
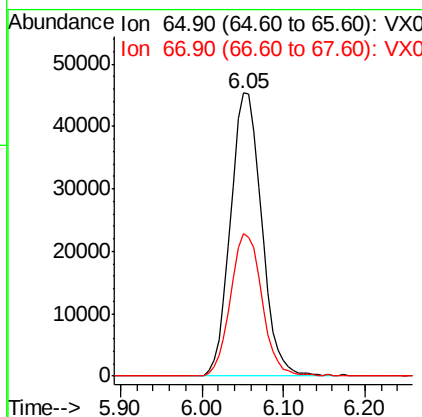
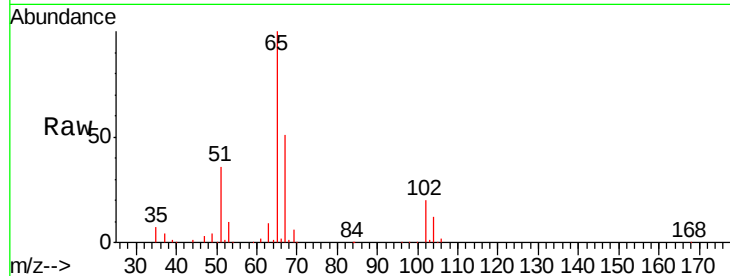




#33
 1,2-Dichloroethane-d4
 Concen: 50.688 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012673.D
 Acq: 26 Sep 2019 14:52

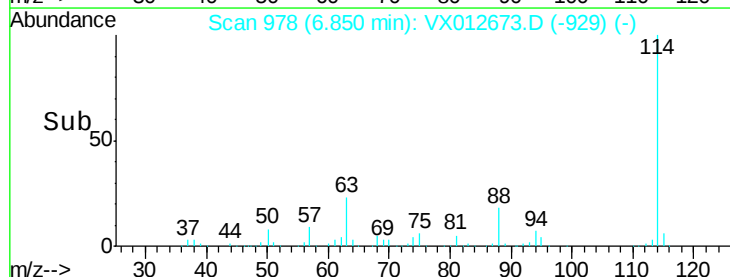
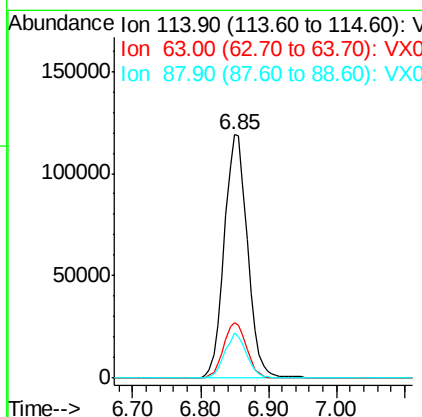
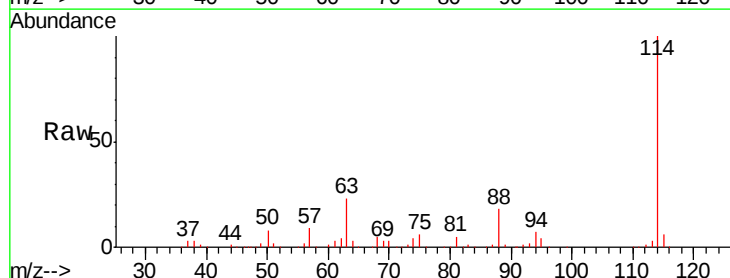
Instrument :
 MSVOA_X
 ClientSampled :
 S49-0525

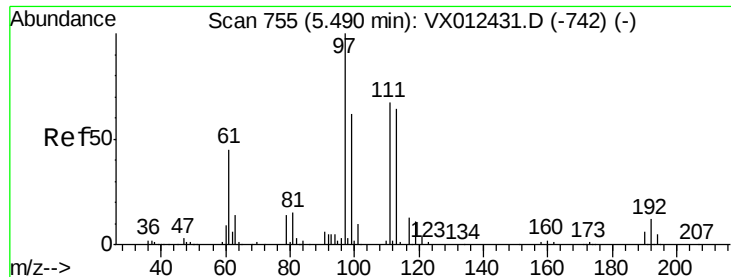
Tgt Ion: 65 Resp: 119690
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012673.D
 Acq: 26 Sep 2019 14:52

Tgt Ion: 114 Resp: 283020
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 43.2
 88 18.4 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.179 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampleId :

S49-0525

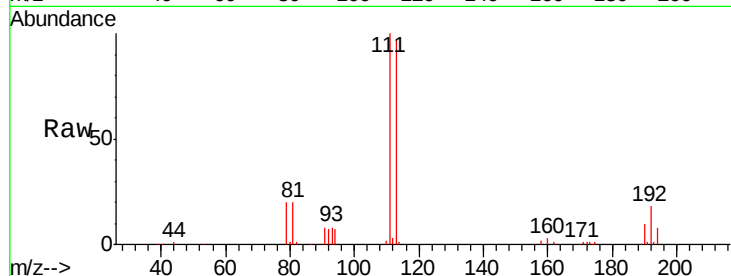
Tgt Ion:113 Resp: 84577

Ion Ratio Lower Upper

113 100

111 102.4 83.4 125.2

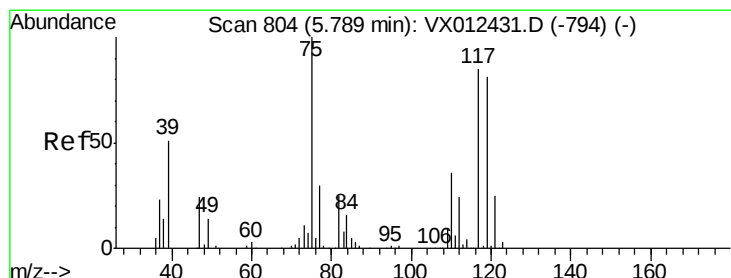
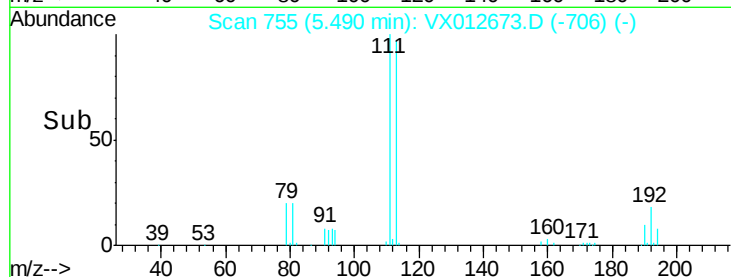
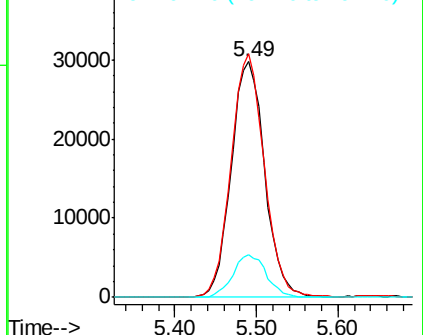
192 18.2 14.4 21.6



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: 5.471 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

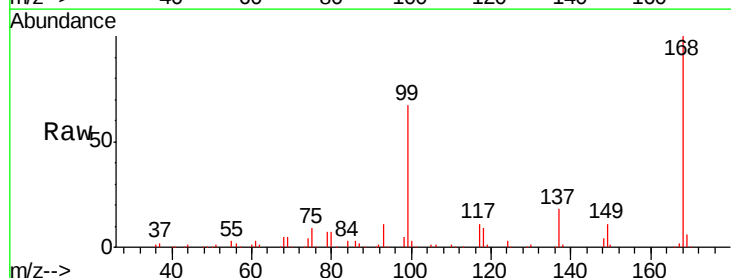
Tgt Ion: 75 Resp: 14925

Ion Ratio Lower Upper

75 100

110 9.7 16.7 50.0#

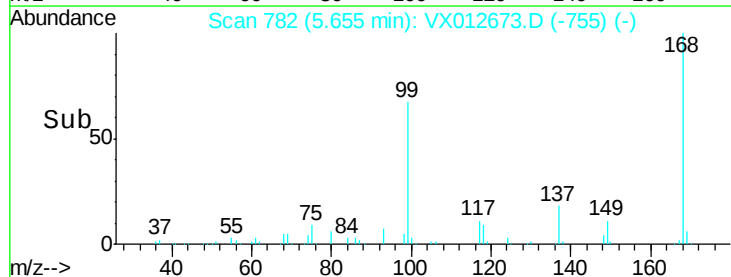
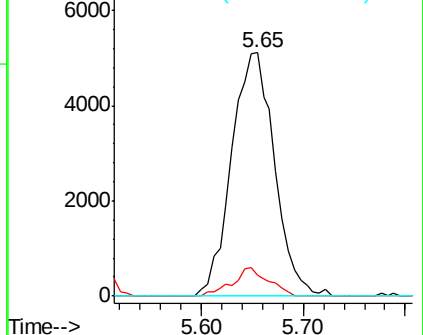
77 0.0 24.2 36.2#

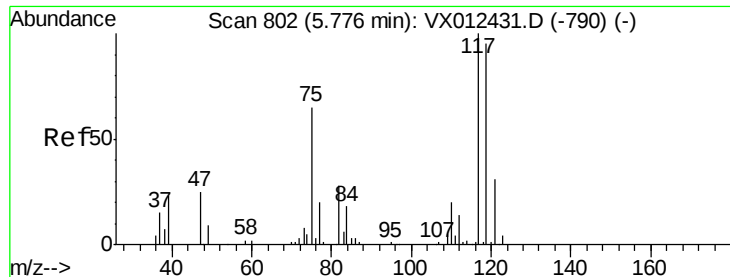


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.905 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampleId :

S49-0525

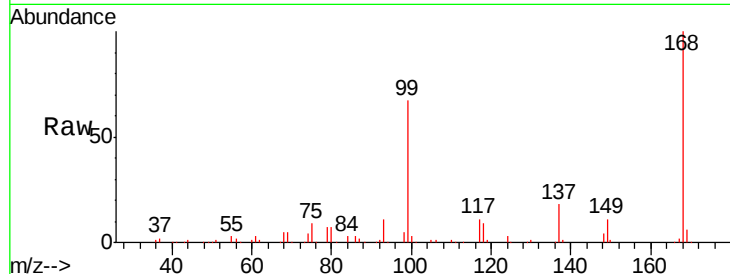
Tgt Ion:117 Resp: 19134

Ion Ratio Lower Upper

117 100

119 6.6 75.7 113.5#

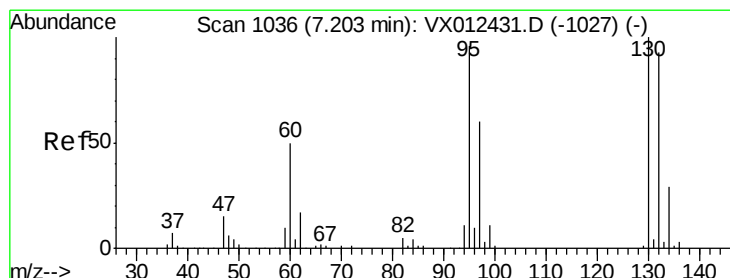
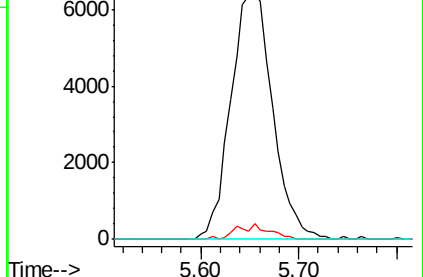
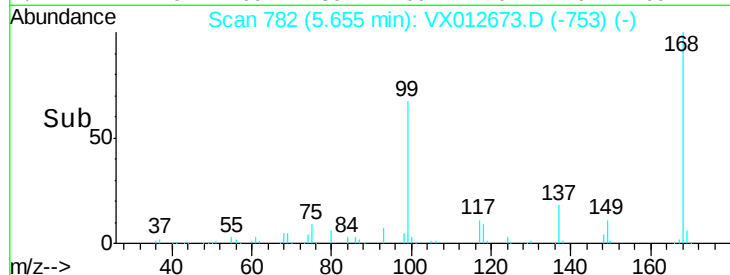
121 0.0 24.2 36.4#



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



#44

Trichloroethene

Concen: 0.292 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012673.D

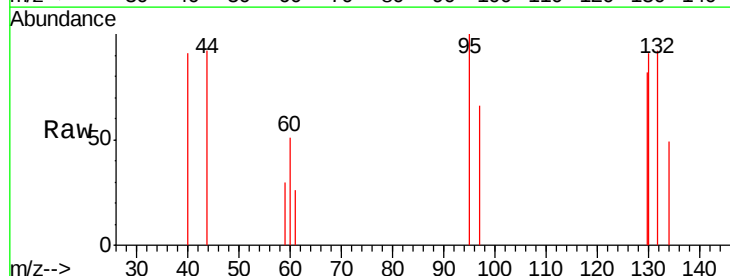
Acq: 26 Sep 2019 14:52

Tgt Ion:130 Resp: 599

Ion Ratio Lower Upper

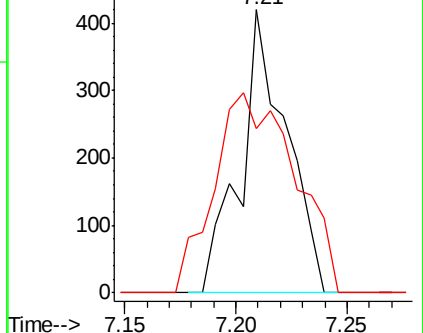
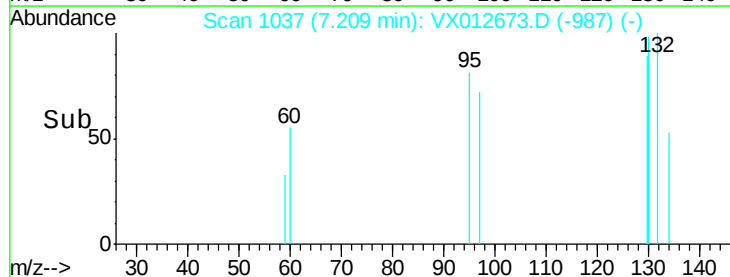
130 100

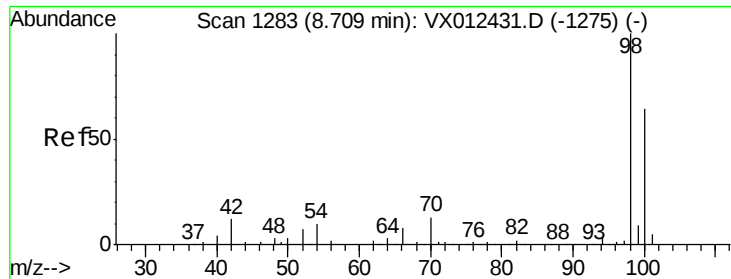
95 57.9 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

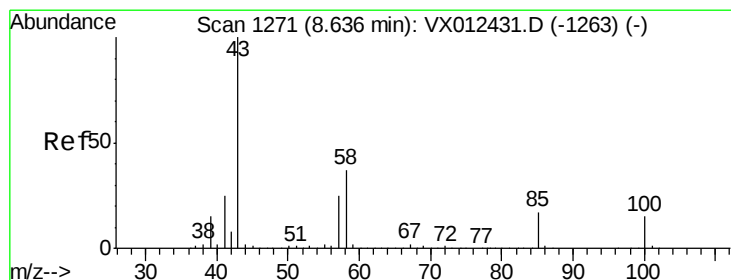
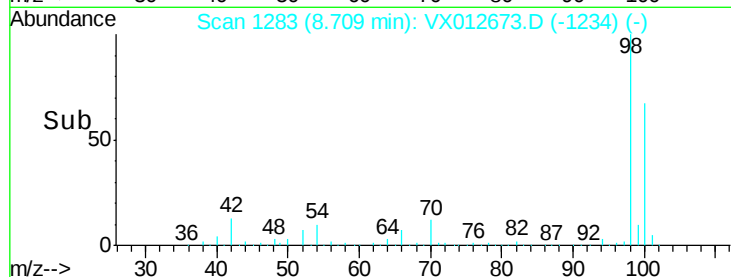
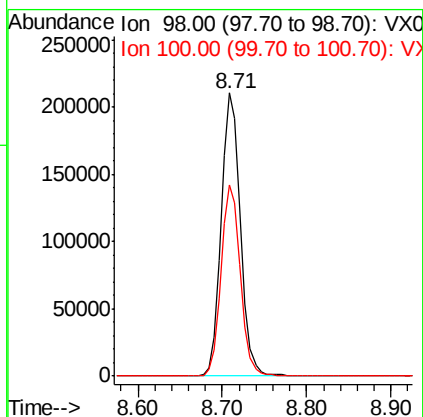
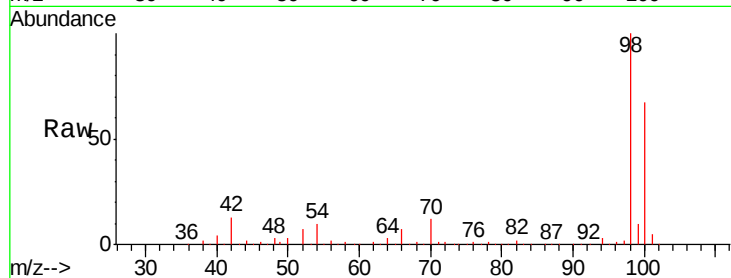




#50
Toluene-d8
Concen: 51.186 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012673.D
Acq: 26 Sep 2019 14:52

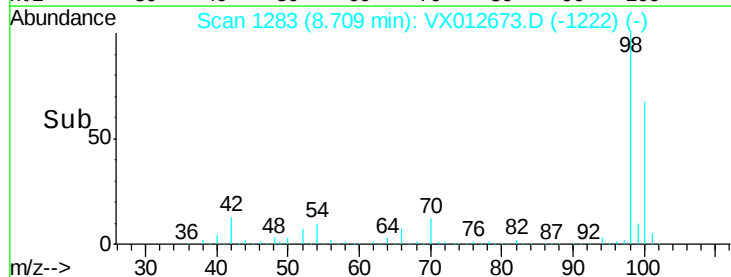
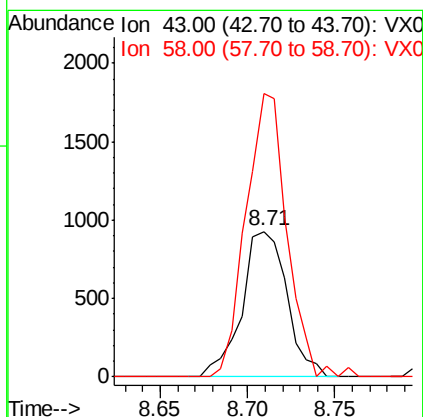
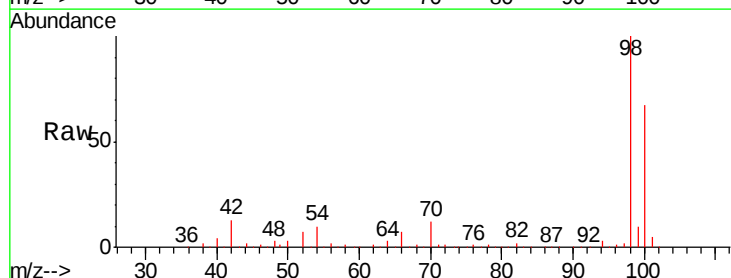
Instrument :
MSVOA_X
ClientSampleId :
S49-0525

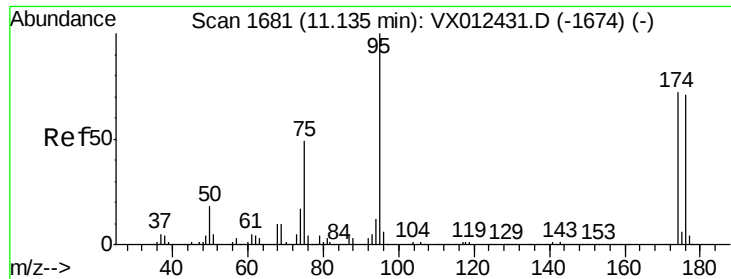
Tgt Ion: 98 Resp: 332251
Ion Ratio Lower Upper
98 100
100 67.6 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.504 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012673.D
Acq: 26 Sep 2019 14:52

Tgt Ion: 43 Resp: 1658
Ion Ratio Lower Upper
43 100
58 177.6 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 45.627 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampleId :

S49-0525

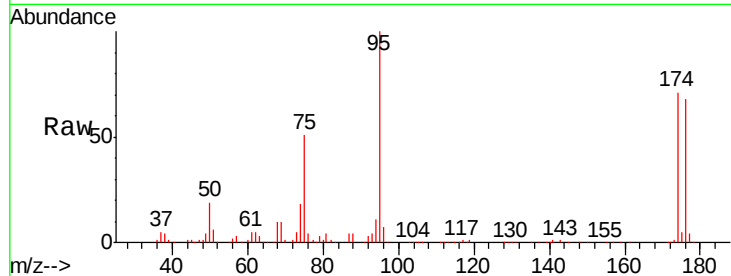
Tgt Ion: 95 Resp: 116453

Ion Ratio Lower Upper

95 100

174 67.5 0.0 140.0

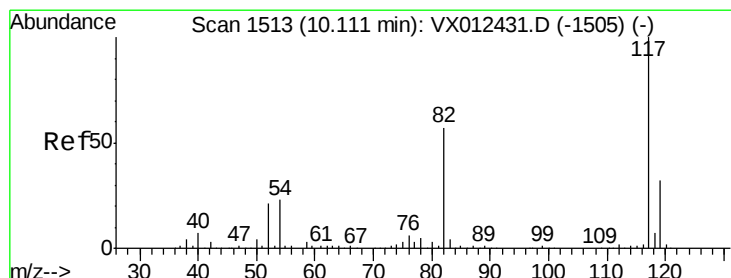
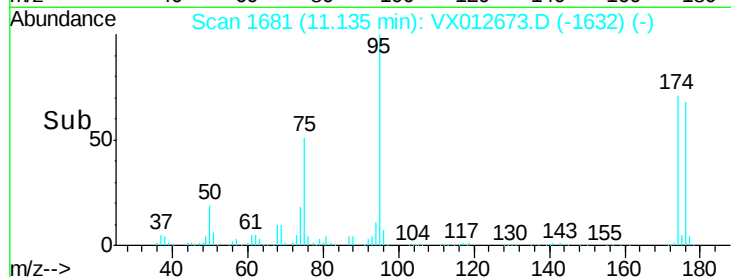
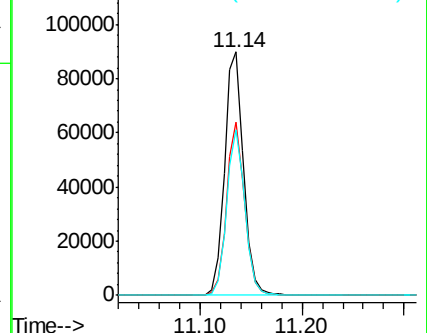
176 65.0 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012673.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012673.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012673.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

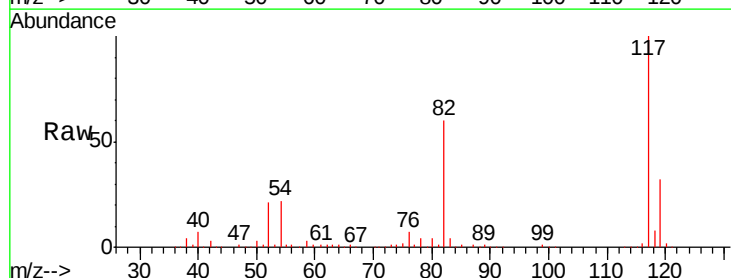
Tgt Ion: 117 Resp: 238652

Ion Ratio Lower Upper

117 100

82 59.7 45.9 68.9

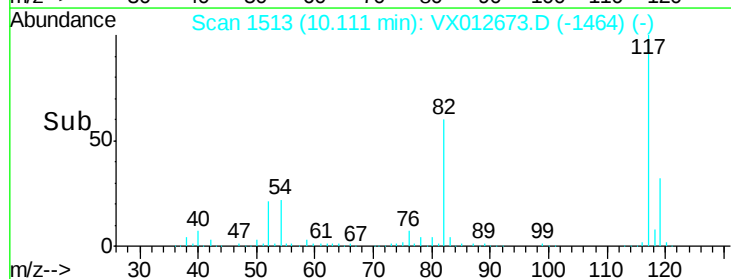
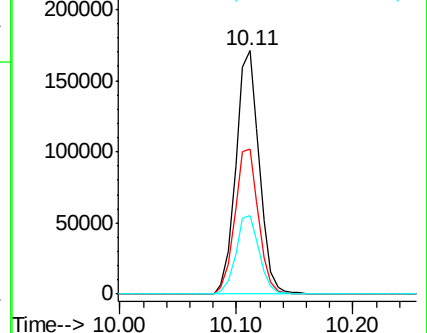
119 32.2 25.3 37.9

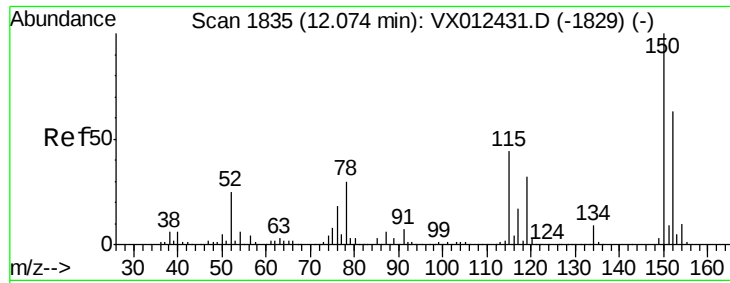


Abundance Ion 116.90 (116.60 to 117.60): VX012673.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012673.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012673.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampleId :

S49-0525

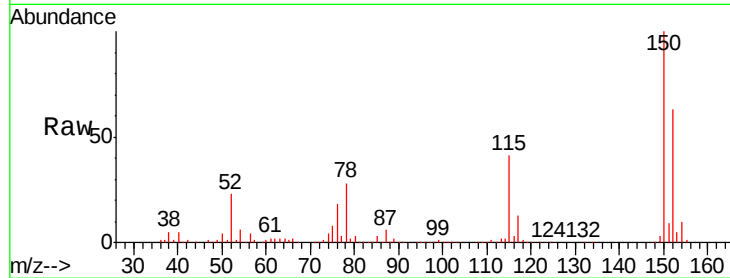
Tgt Ion:152 Resp: 95405

Ion Ratio Lower Upper

152 100

115 65.4 44.1 132.3

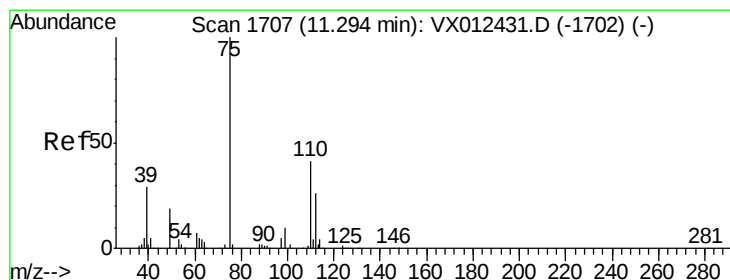
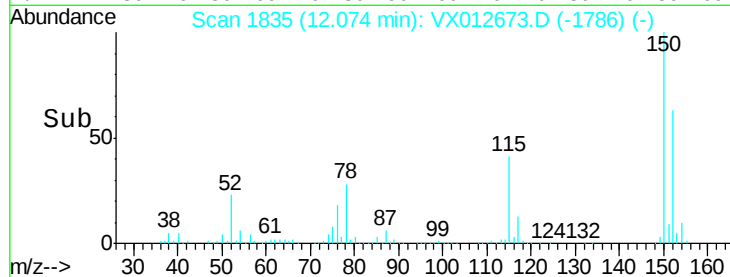
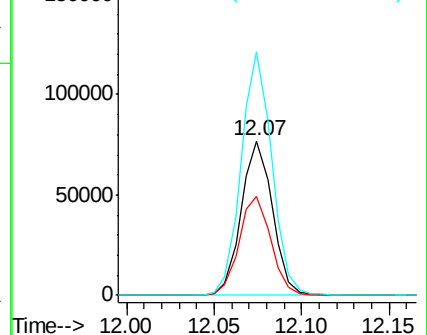
150 154.8 0.0 343.8



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: 24.171 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012673.D

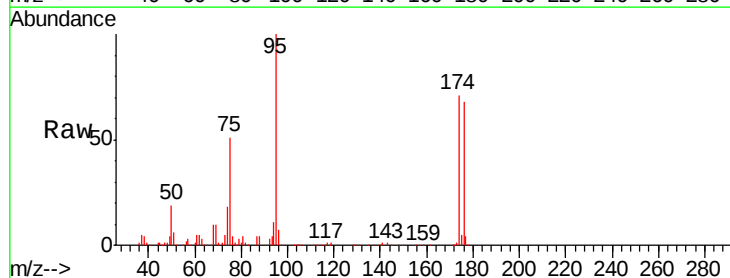
Acq: 26 Sep 2019 14:52

Tgt Ion: 75 Resp: 61001

Ion Ratio Lower Upper

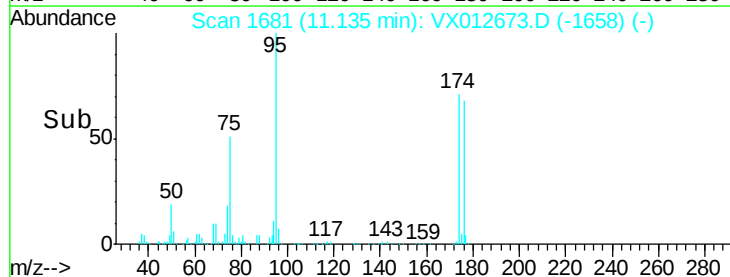
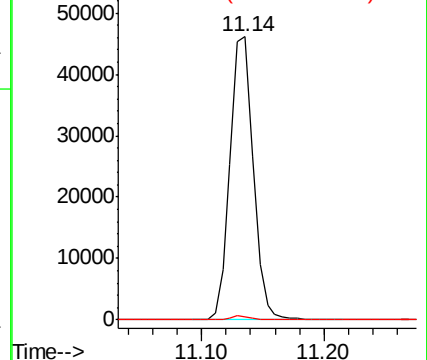
75 100

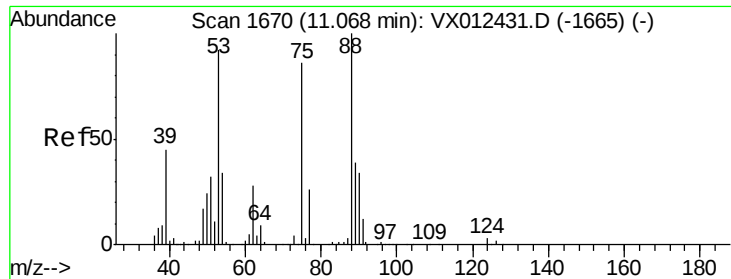
77 1.2 19.7 59.0#



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: 69.269 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012673.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_X

ClientSampleId :

S49-0525

Tgt Ion: 75 Resp: 61001

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

