

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091919\
 Data File : VX012534.D
 Acq On : 19 Sep 2019 17:30
 Operator : JC/SP
 Sample : K4888-01DL 10X
 Misc : 6.64g/10mL/100uL/10mL/MSVOA_X/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 979-S-1-(18-19)DL

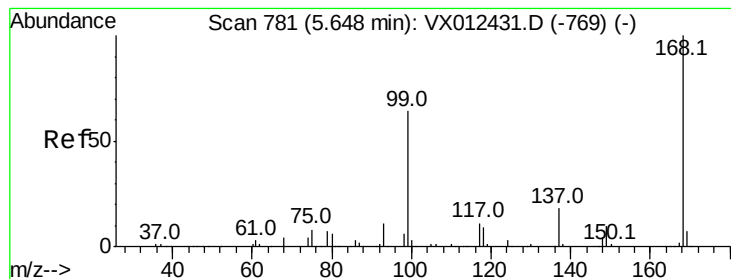
Quant Time: Sep 20 04:35:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	185237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	289696	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	92997	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	124313	46.83	ug/l	0.00
Spiked Amount			Recovery	=	93.66%	
35) Dibromofluoromethane	5.49	113	87865	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
50) Toluene-d8	8.71	98	338378	52.14	ug/l	0.00
Spiked Amount			Recovery	=	104.28%	
62) 4-Bromofluorobenzene	11.14	95	120895	44.86	ug/l	0.00
Spiked Amount			Recovery	=	89.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.27	85	20	0.407	ug/l #	43
3) Chloromethane	1.33	50	518	0.509	ug/l	91
4) Vinyl Chloride	1.40	62	4276	3.885	ug/l	99
5) Bromomethane	1.62	94	733	1.695	ug/l #	20
6) Chloroethane	1.73	64	1055	1.225	ug/l #	45
10) Methyl Iodide	2.50	142	286	4.650	ug/l #	54
11) Tert butyl alcohol	3.01	59	10008	9.210	ug/l #	83
12) 1,1-Dichloroethene	2.36	96	726	0.623	ug/l #	58
16) Acetone	2.44	43	950	Below Cal	#	83
17) Carbon Disulfide	2.55	76	278	1.969	ug/l #	75
20) Methylene Chloride	2.84	84	884	0.550	ug/l #	78
21) trans-1,2-Dichloroethene	3.16	96	761	0.629	ug/l #	71
27) cis-1,2-Dichloroethene	4.59	96	38038	21.055	ug/l	84
29) Tetrahydrofuran	5.12	42	267	0.262	ug/l #	55
36) 1,1-Dichloropropene	5.65	75	16002	9.089	ug/l #	53
38) Carbon Tetrachloride	5.65	117	20490	9.357	ug/l #	17
44) Trichloroethene	7.21	130	26341	17.885	ug/l	95
49) 1,4-Dioxane	7.70	88	49	0.880	ug/l #	1
55) 1,1,2-Trichloroethane	9.33	97	1062	0.571	ug/l #	21
60) Dibromochloromethane	9.33	129	101793	53.767	ug/l #	11
64) Tetrachloroethene	9.33	164	101628	90.779	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	63069	29.524	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	63069	79.131	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

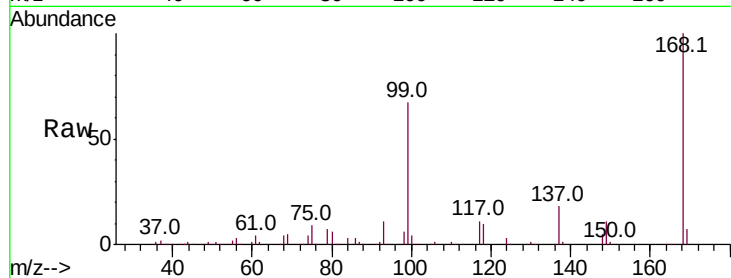
979-S-1-(18-19)DL

Tot Ion:168 Resp: 185237

Ion Ratio Lower Upper

168 100

99 67.1 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

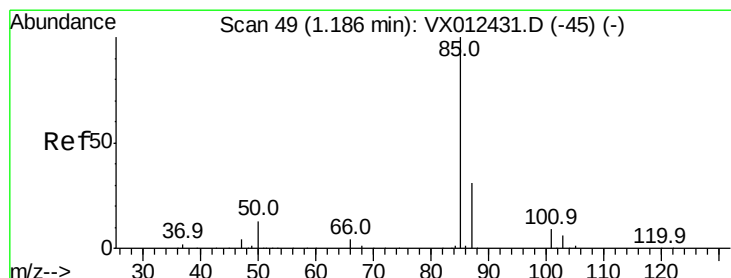
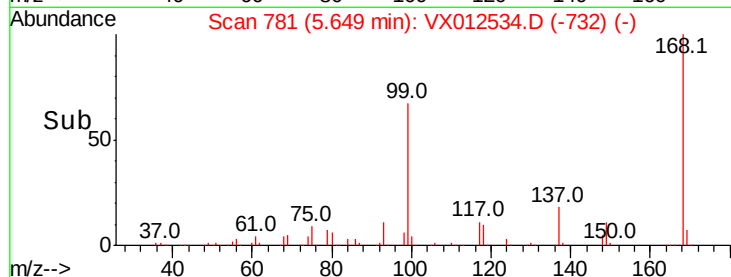
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.407 ug/l

RT: 1.27 min Scan# 62

Delta R.T. 0.08 min

Lab File: VX012534.D

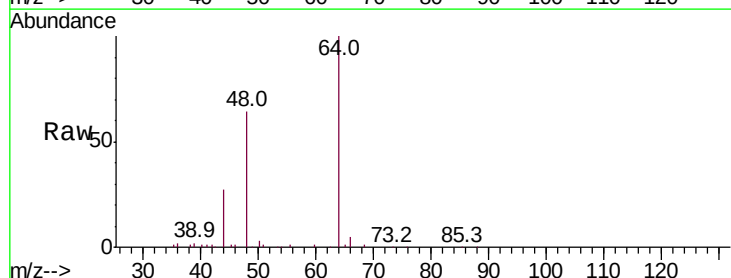
Acq: 19 Sep 2019 17:30

Tgt Ion: 85 Resp: 20

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

1.27

60

50

40

30

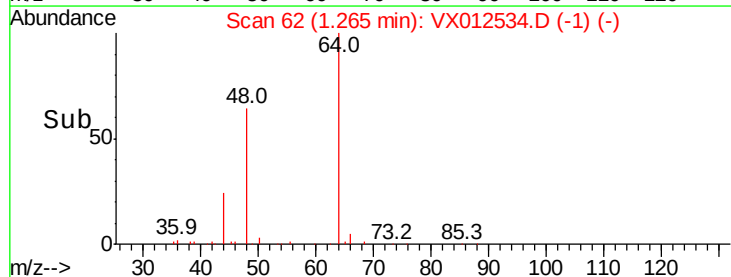
20

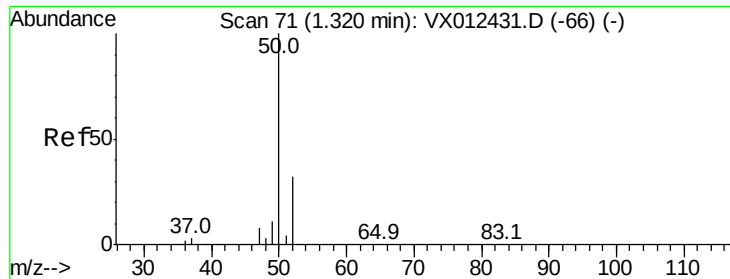
10

0

Time-->

1.25 1.26 1.27 1.28





#3

Chloromethane

Concen: 0.509 ug/l

RT: 1.33 min Scan# 72

Delta R.T. 0.01 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

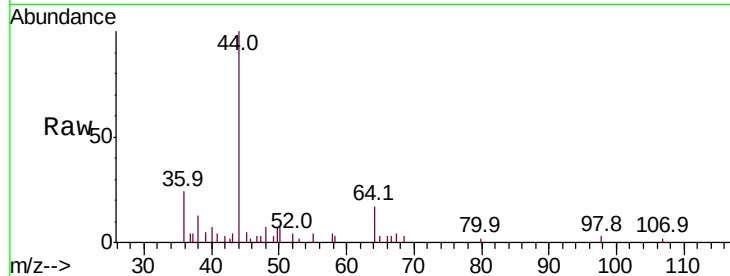
979-S-1-(18-19)DL

Tot Ion: 50 Resp: 518

Ion Ratio Lower Upper

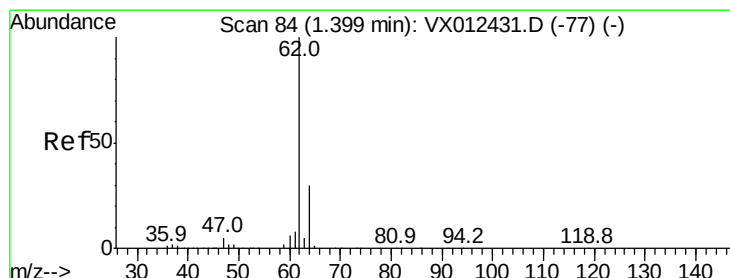
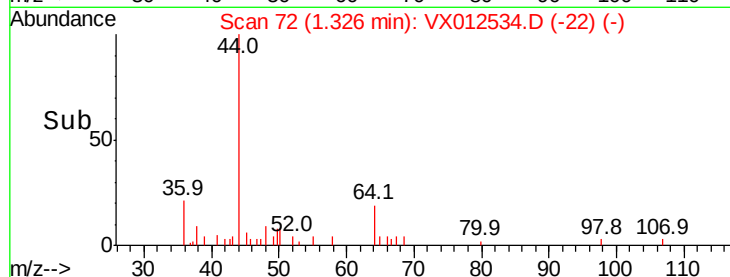
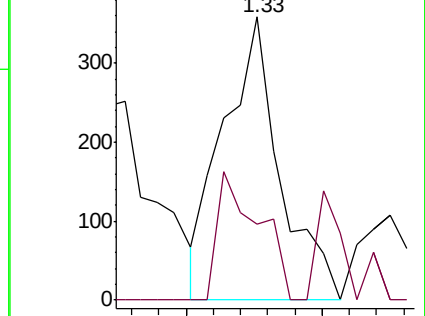
50 100

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



#4

Vinyl Chloride

Concen: 3.885 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012534.D

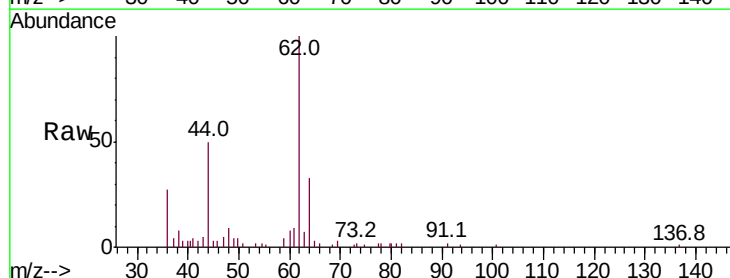
Acq: 19 Sep 2019 17:30

Tgt Ion: 62 Resp: 4276

Ion Ratio Lower Upper

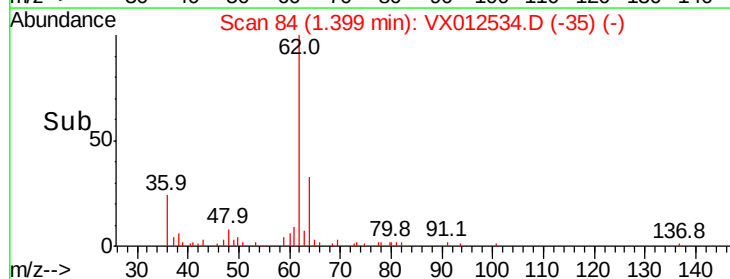
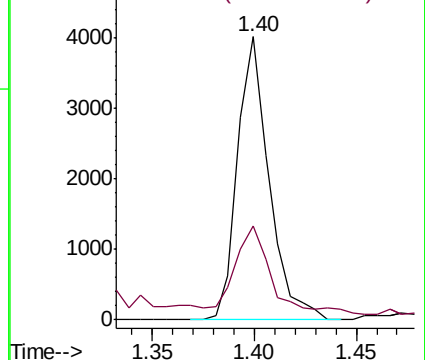
62 100

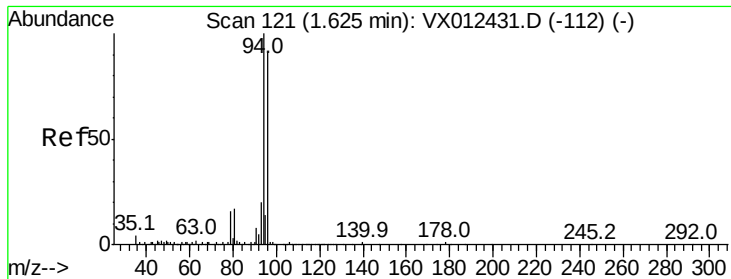
64 29.6 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 1.695 ug/l

RT: 1.62 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

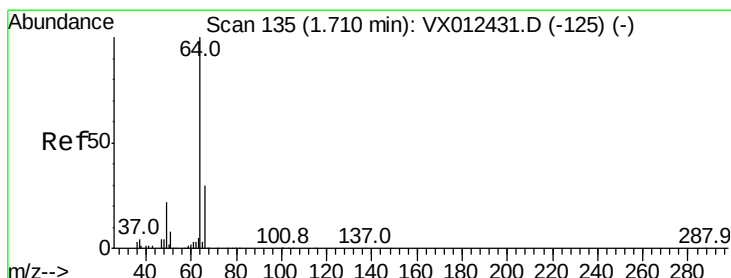
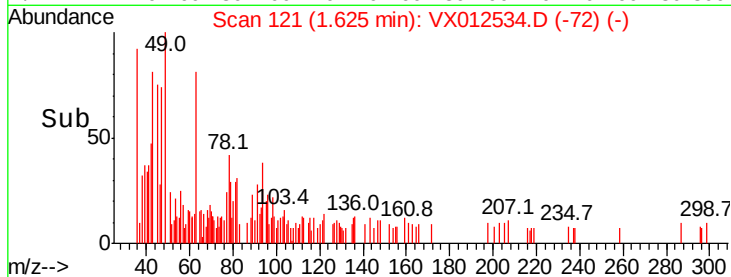
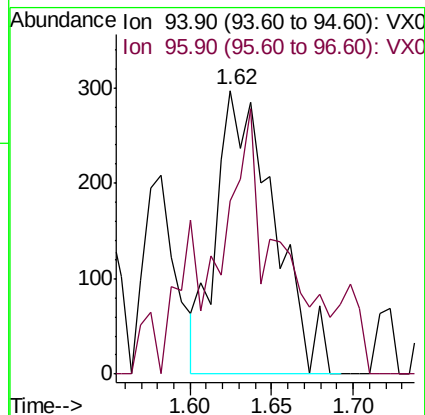
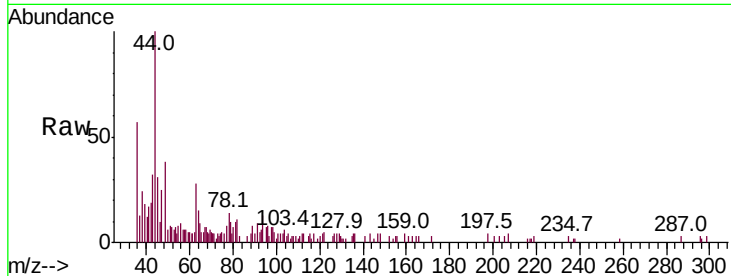
979-S-1-(18-19)DL

Tot Ion: 94 Resp: 733

Ion Ratio Lower Upper

94 100

96 15.2 72.8 109.2#



#6

Chloroethane

Concen: 1.225 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX012534.D

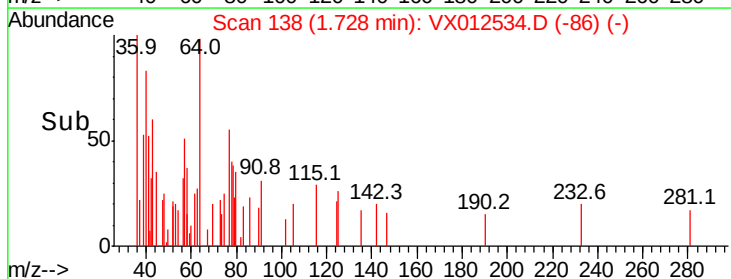
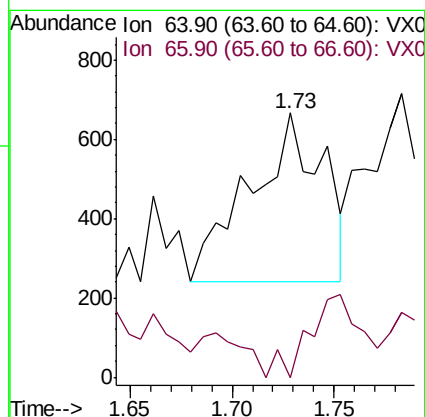
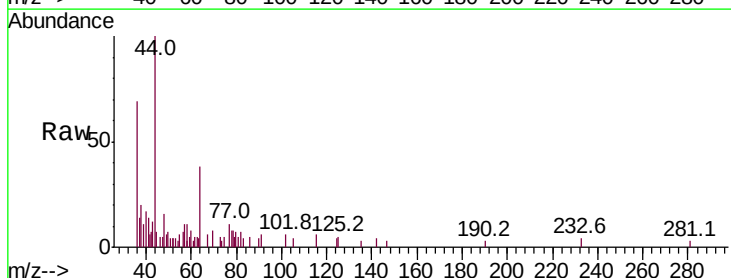
Acq: 19 Sep 2019 17:30

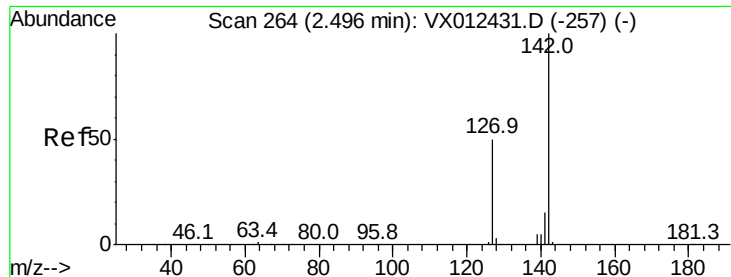
Tgt Ion: 64 Resp: 1055

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#

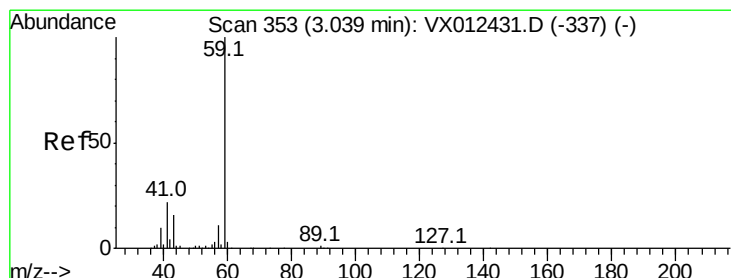
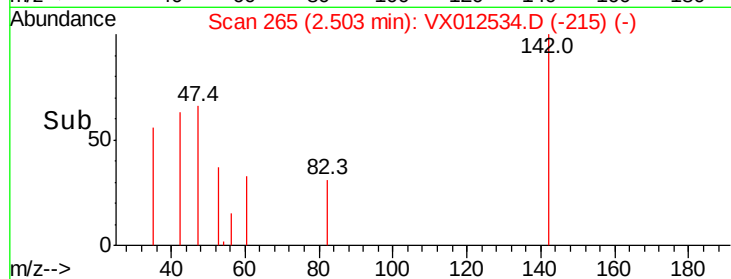
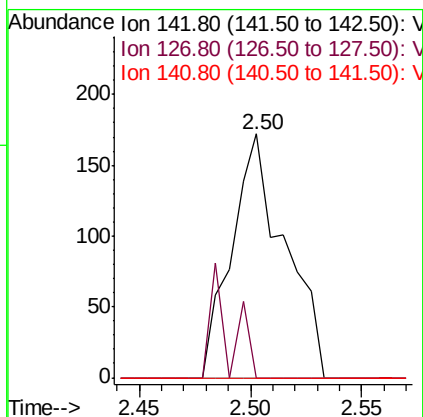
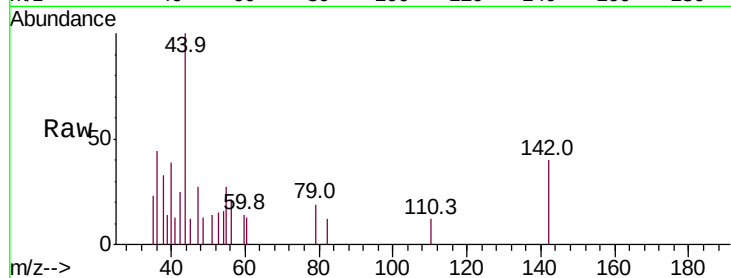




#10
Methyl Iodide
Concen: 4.650 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX012534.D
Acq: 19 Sep 2019 17:30

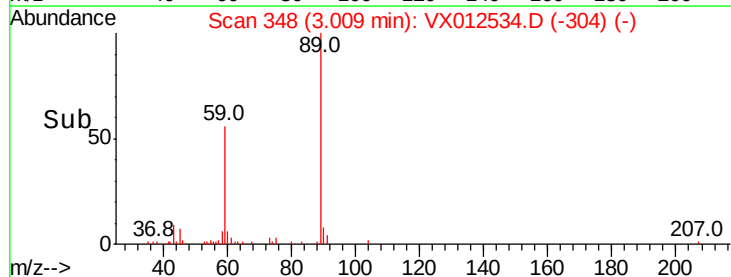
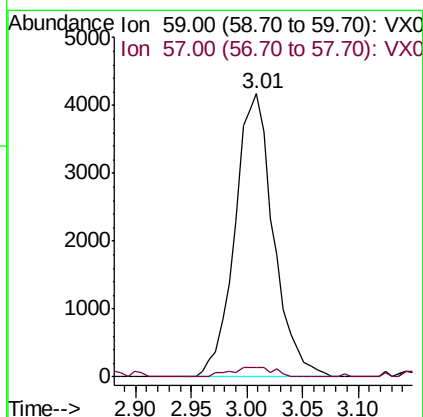
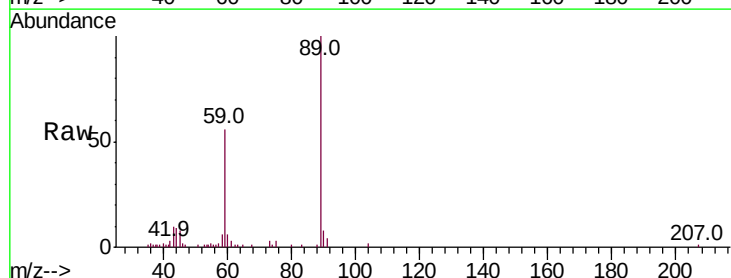
Instrument :
MSVOA_X
ClientSampleId :
979-S-1-(18-19)DL

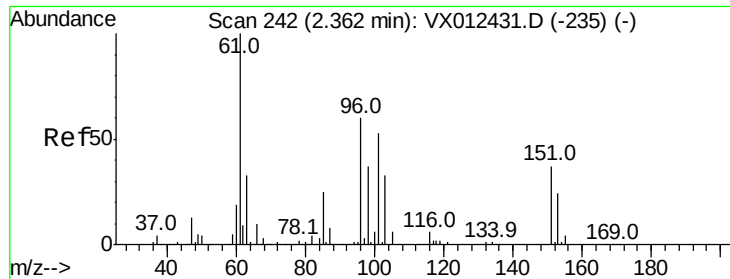
Tot Ion:142 Resp: 286
Ion Ratio Lower Upper
142 100
127 17.1 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 9.210 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX012534.D
Acq: 19 Sep 2019 17:30

Tgt Ion: 59 Resp: 10008
Ion Ratio Lower Upper
59 100
57 4.1 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 0.623 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

979-S-1-(18-19)DL

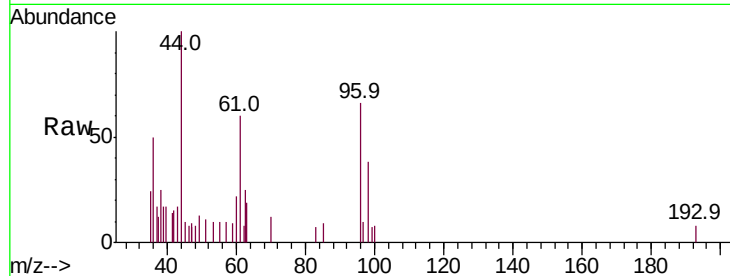
Tot Ion: 96 Resp: 726

Ion Ratio Lower Upper

96 100

61 91.8 133.8 200.6#

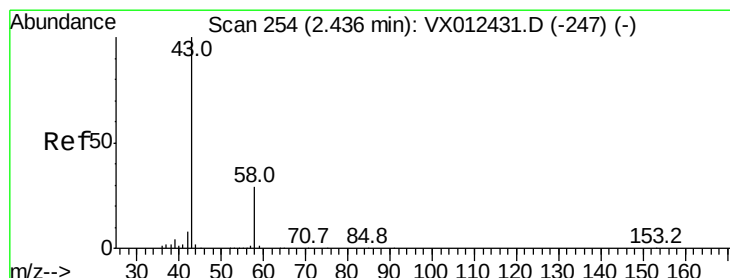
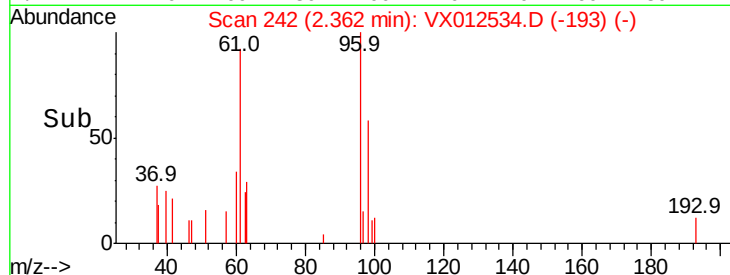
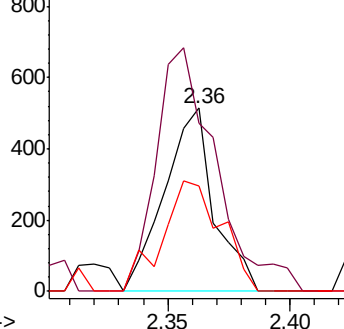
98 57.8 49.9 74.9



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



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX012534.D

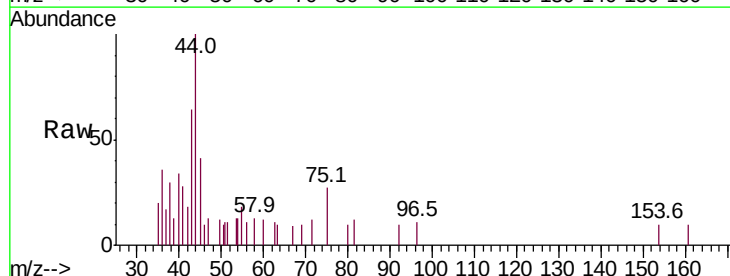
Acq: 19 Sep 2019 17:30

Tgt Ion: 43 Resp: 950

Ion Ratio Lower Upper

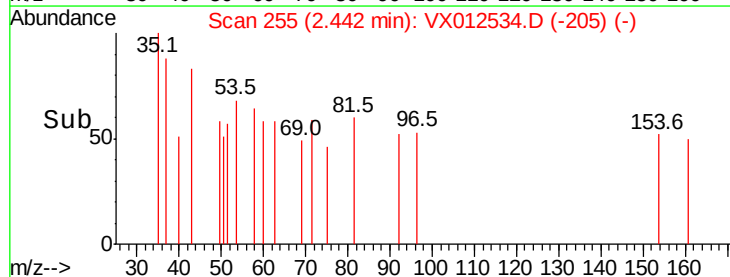
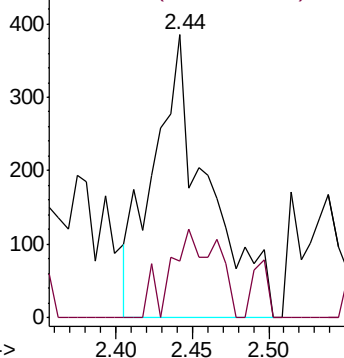
43 100

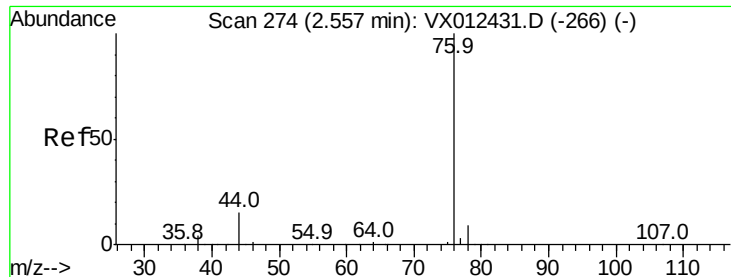
58 20.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.969 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

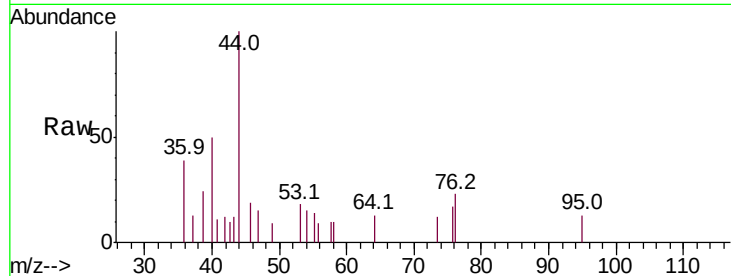
979-S-1-(18-19)DL

Tot Ion: 76 Resp: 278

Ion Ratio Lower Upper

76 100

78 0.0 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

200

150

100

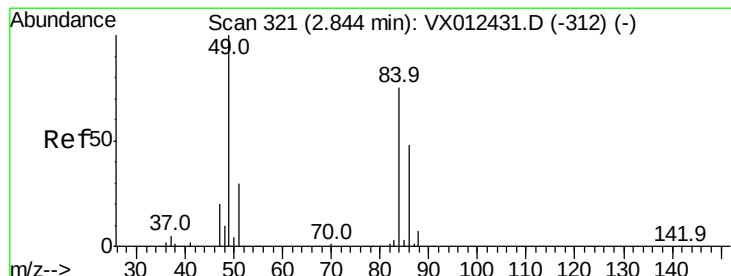
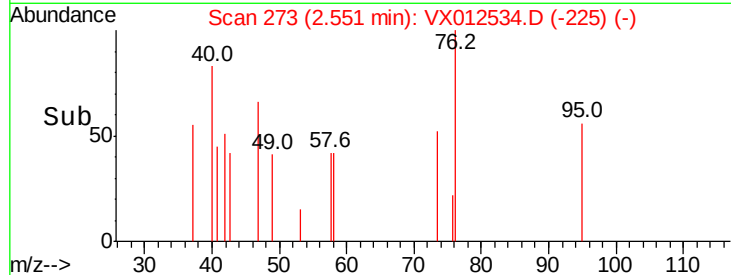
50

0

2.55

2.60

Time-->



#20

Methylene Chloride

Concen: 0.550 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Tgt Ion: 84 Resp: 884

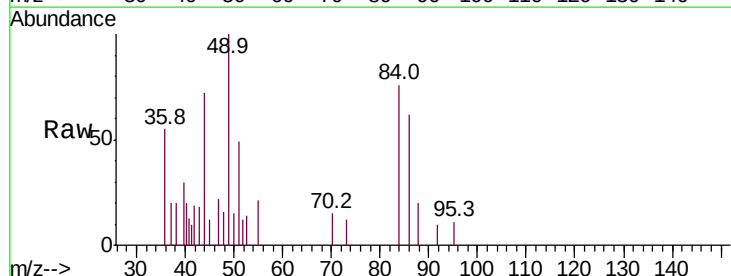
Ion Ratio Lower Upper

84 100

49 113.3 106.8 160.2

51 64.1 32.3 48.5#

86 80.6 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

1000

800

600

400

200

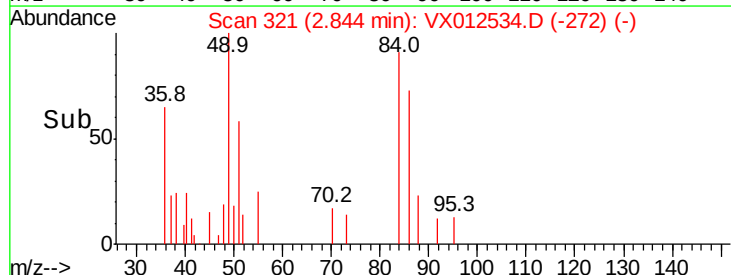
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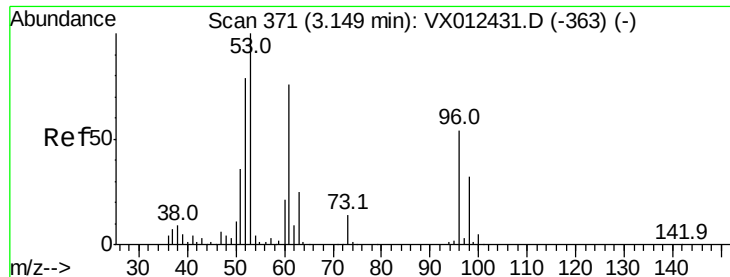
2.80

2.85

2.90

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.629 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.01 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

979-S-1-(18-19)DL

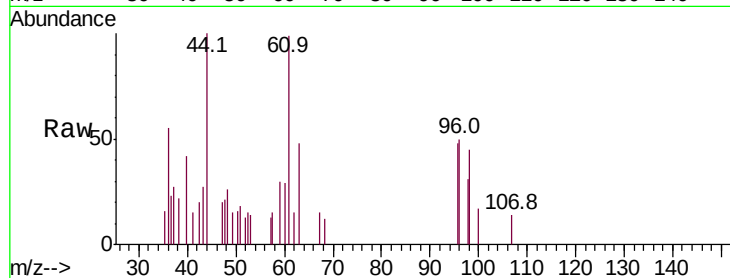
Tot Ion: 96 Resp: 761

Ion Ratio Lower Upper

96 100

61 101.0 112.0 168.0#

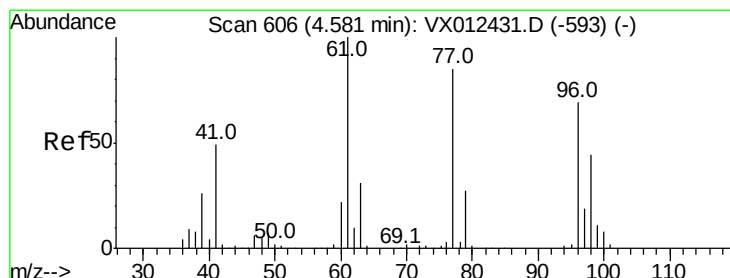
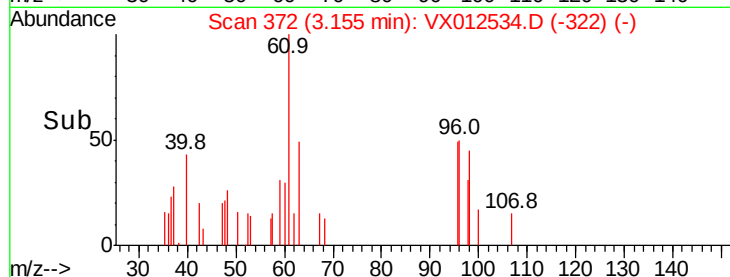
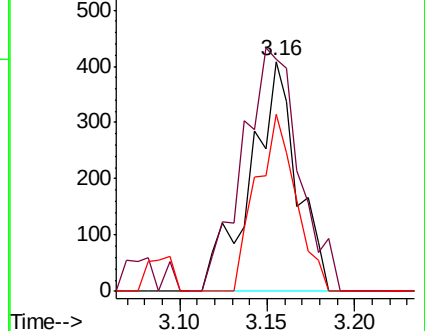
98 77.0 47.8 71.8#



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



#27

cis-1,2-Dichloroethene

Concen: 21.055 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

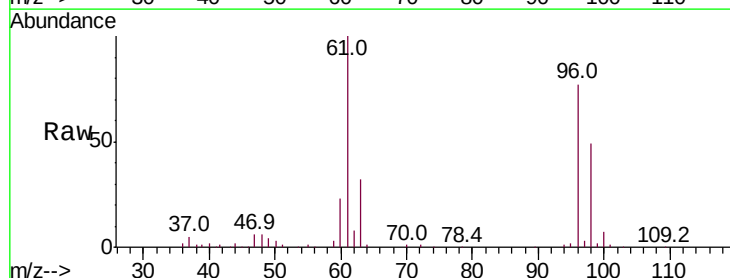
Tgt Ion: 96 Resp: 38038

Ion Ratio Lower Upper

96 100

61 131.4 0.0 319.4

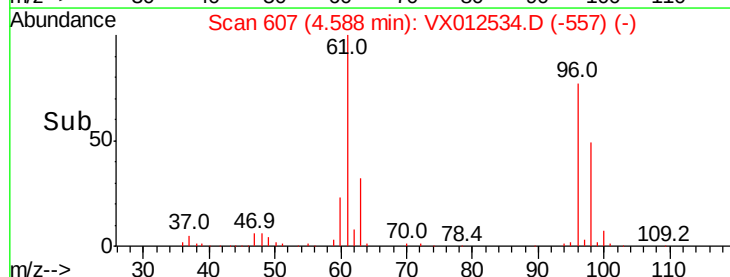
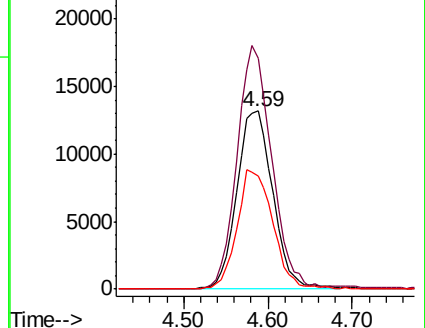
98 66.3 0.0 130.6

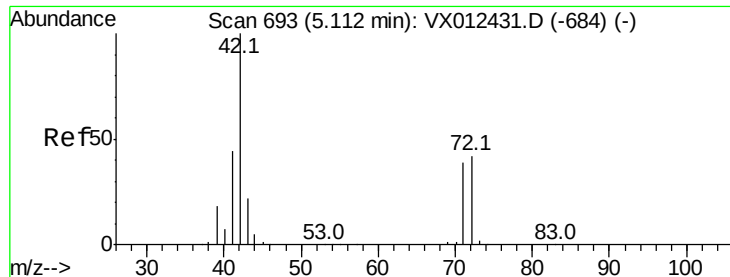


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

979-S-1-(18-19)DL

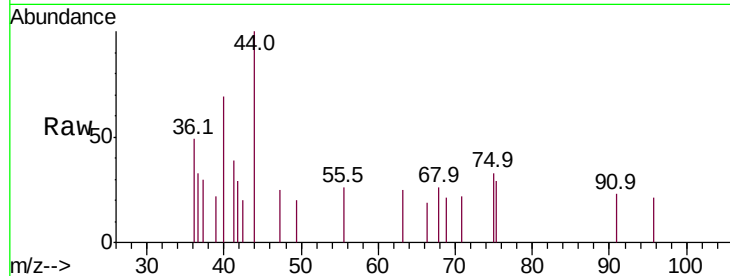
Tot Ion: 42 Resp: 267

Ion Ratio Lower Upper

42 100

72 9.0 34.0 51.0#

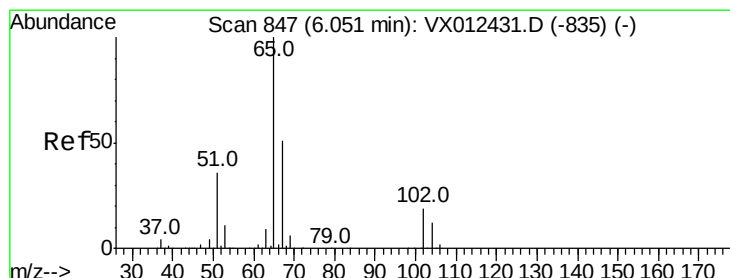
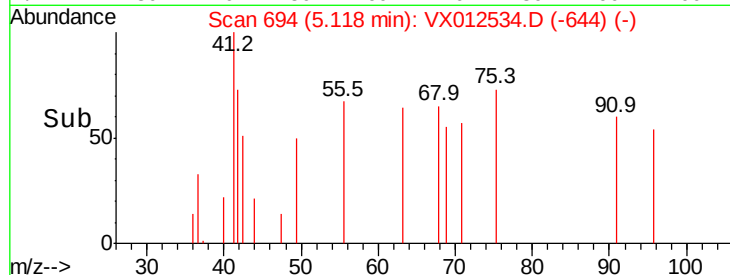
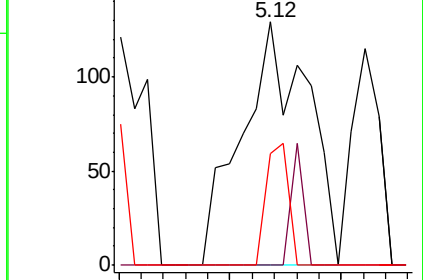
71 16.9 31.5 47.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.825 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012534.D

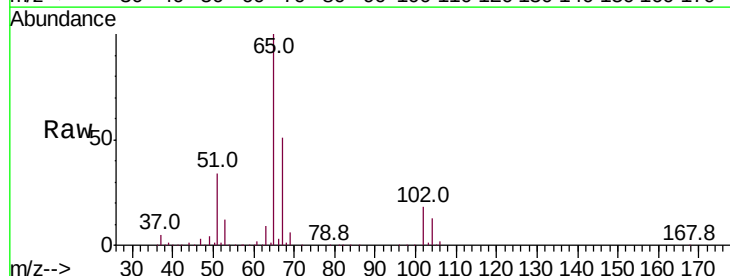
Acq: 19 Sep 2019 17:30

Tgt Ion: 65 Resp: 124313

Ion Ratio Lower Upper

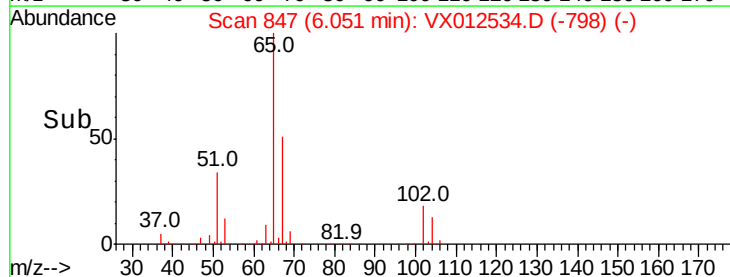
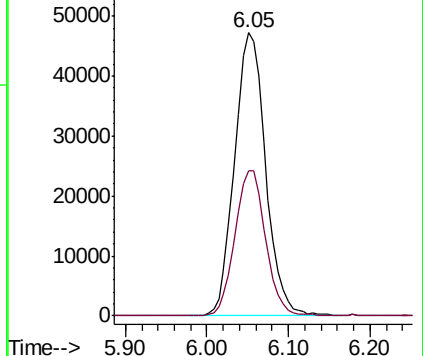
65 100

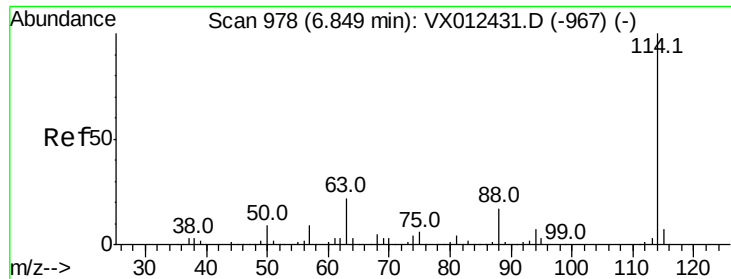
67 50.7 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

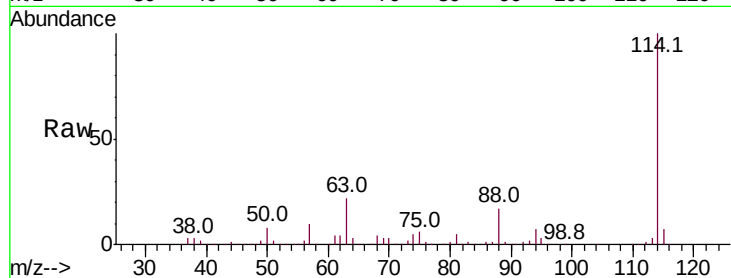




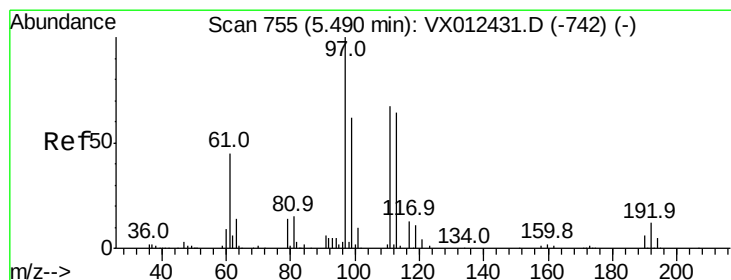
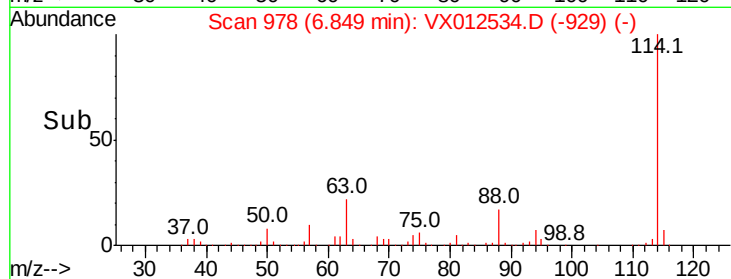
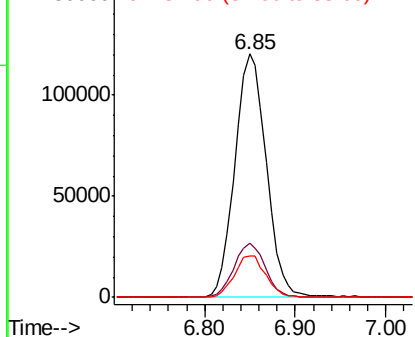
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012534.D
 Acq: 19 Sep 2019 17:30

Instrument :
 MSVOA_X
 ClientSampleId :
 979-S-1-(18-19)DL

Tot Ion:114 Resp: 289696
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.2
 88 17.3 0.0 33.2

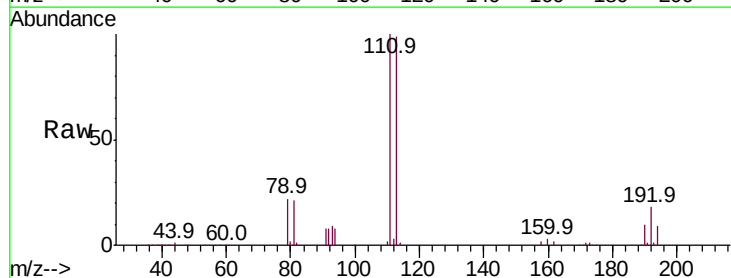


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

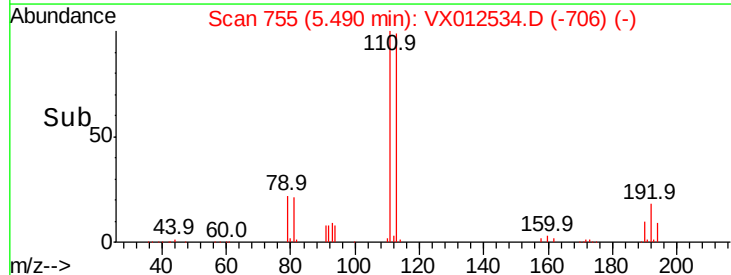
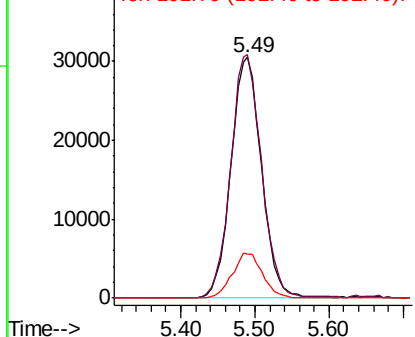


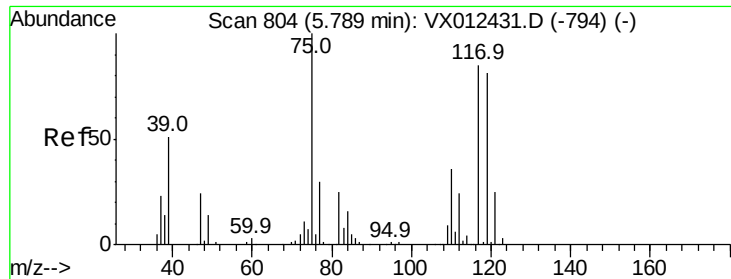
#35
 Dibromofluoromethane
 Concen: 50.111 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012534.D
 Acq: 19 Sep 2019 17:30

Tgt Ion:113 Resp: 87865
 Ion Ratio Lower Upper
 113 100
 111 101.5 83.4 125.2
 192 18.3 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

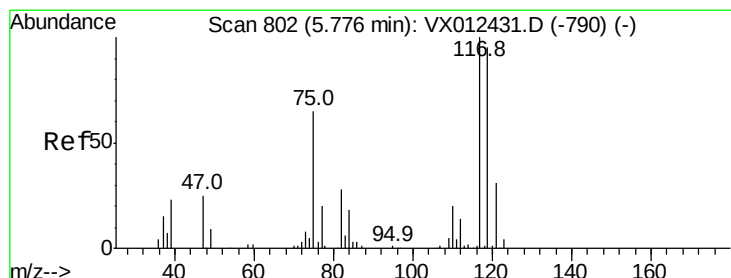
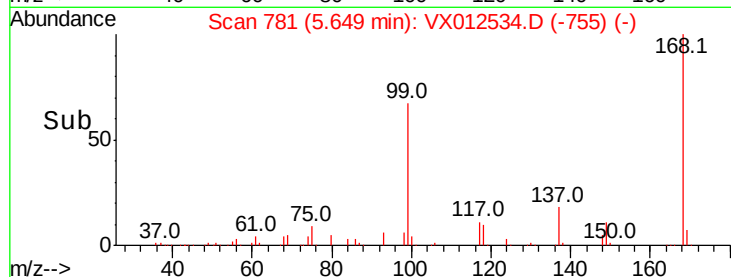
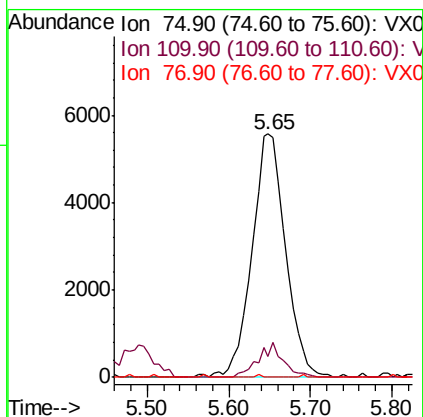
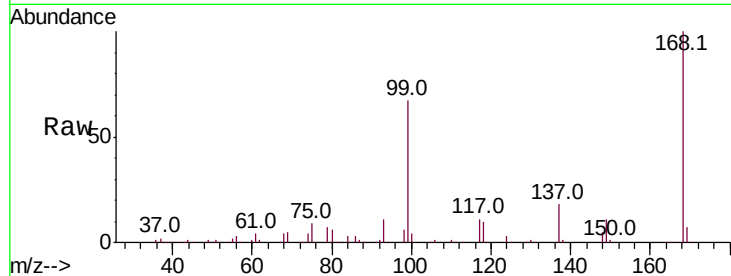




#36
 1,1-Dichloropropene
 Concen: 9.089 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012534.D
 Acq: 19 Sep 2019 17:30

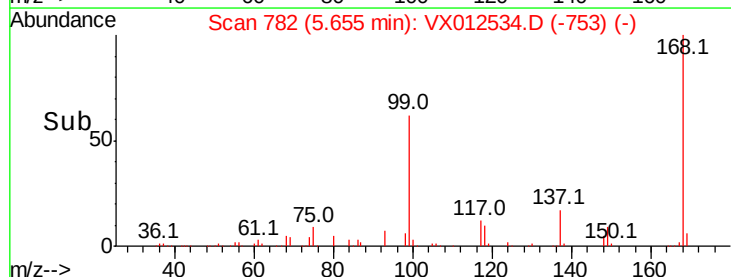
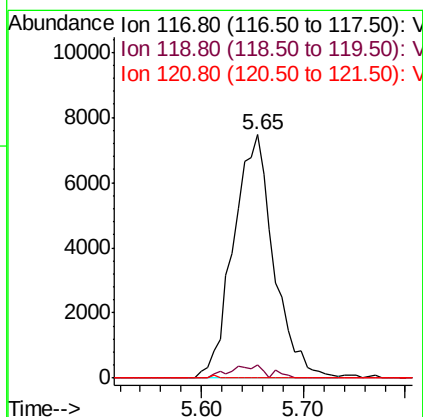
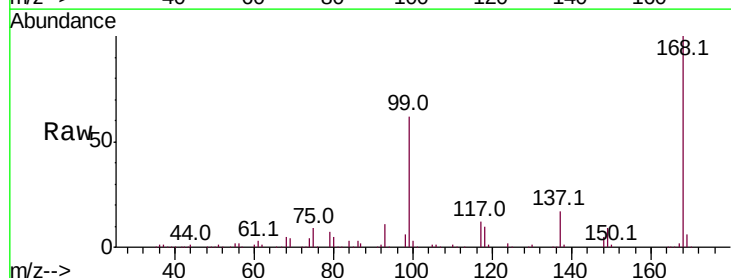
Instrument :
 MSVOA_X
 ClientSampleId :
 979-S-1-(18-19)DL

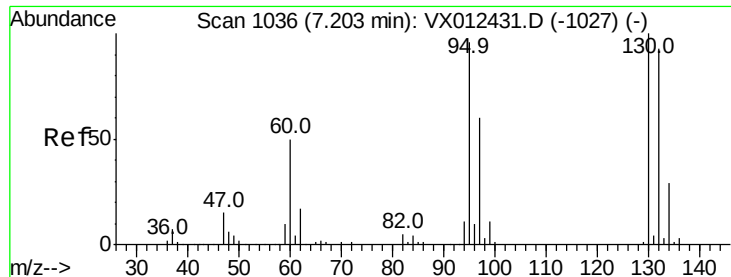
Tot Ion: 75 Resp: 16002
 Ion Ratio Lower Upper
 75 100
 110 10.6 16.7 50.0#
 77 0.1 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 9.357 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX012534.D
 Acq: 19 Sep 2019 17:30

Tgt Ion: 117 Resp: 20490
 Ion Ratio Lower Upper
 117 100
 119 5.4 75.7 113.5#
 121 0.0 24.2 36.4#





#44

Trichloroethene

Concen: 17.885 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

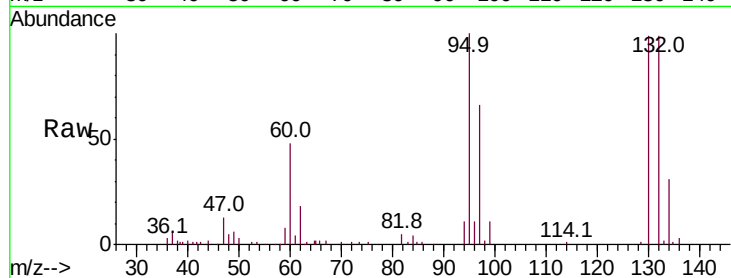
979-S-1-(18-19)DL

Tot Ion:130 Resp: 26341

Ion Ratio Lower Upper

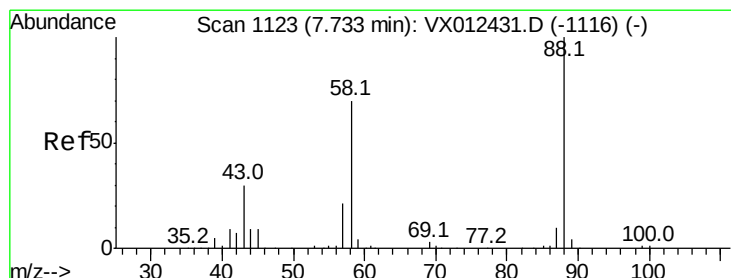
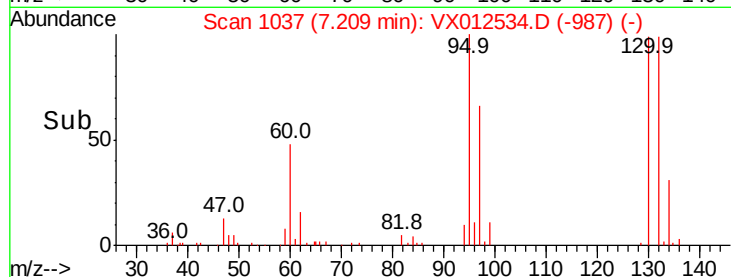
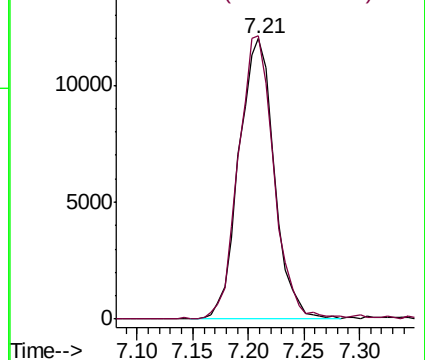
130 100

95 100.9 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.880 ug/l

RT: 7.70 min Scan# 1117

Delta R.T. -0.04 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

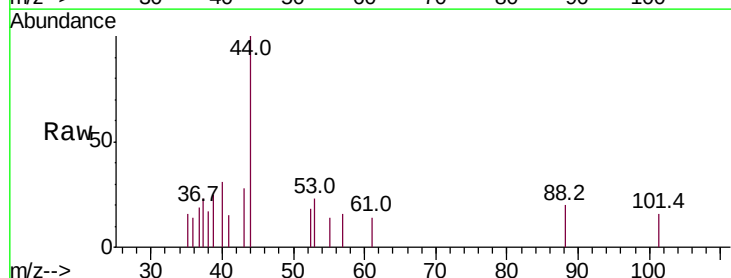
Tgt Ion: 88 Resp: 49

Ion Ratio Lower Upper

88 100

43 618.4 29.4 44.0#

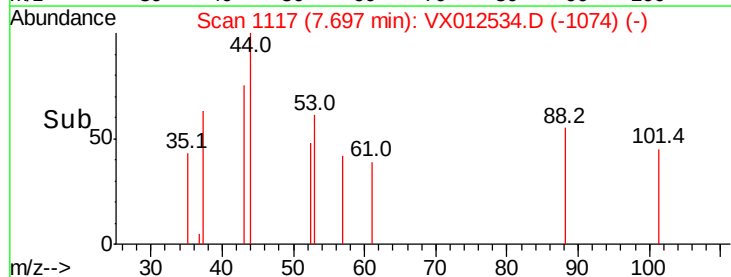
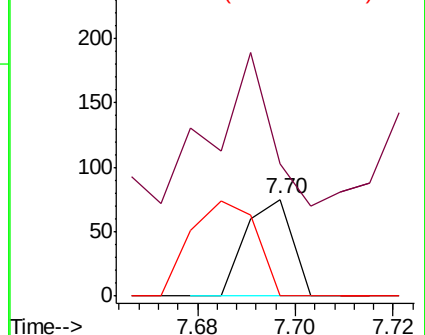
58 140.8 57.5 86.3#

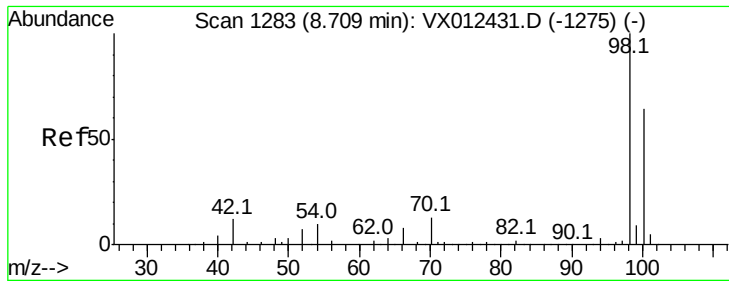


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.137 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

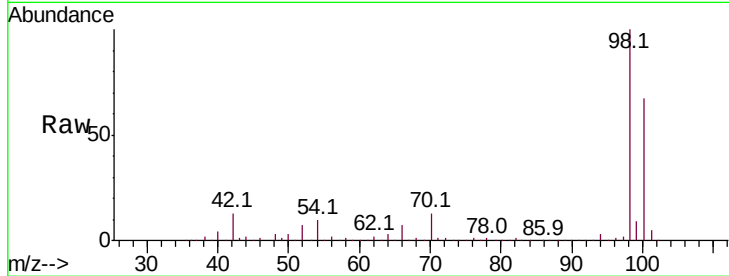
979-S-1-(18-19)DL

Tot Ion: 98 Resp: 338378

Ion Ratio Lower Upper

98 100

100 67.0 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

250000

200000

150000

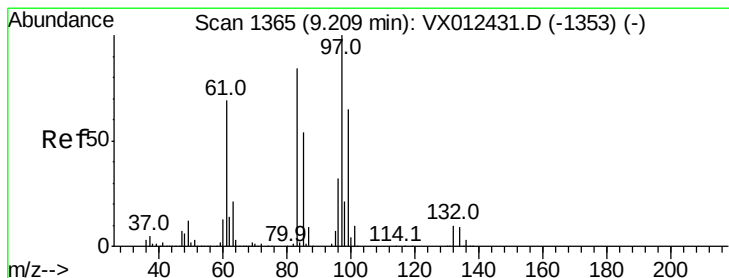
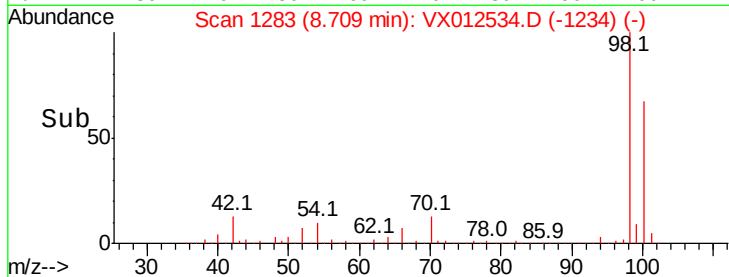
100000

50000

0

8.60 8.70 8.80

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.571 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.12 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Tgt Ion: 97 Resp: 1062

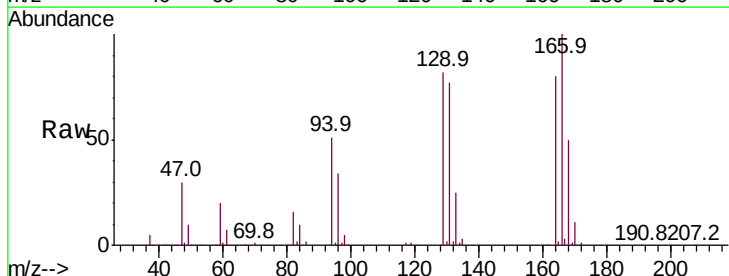
Ion Ratio Lower Upper

97 100

83 194.5 67.4 101.2#

85 32.5 43.5 65.3#

99 14.3 51.8 77.8#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

2000

1500

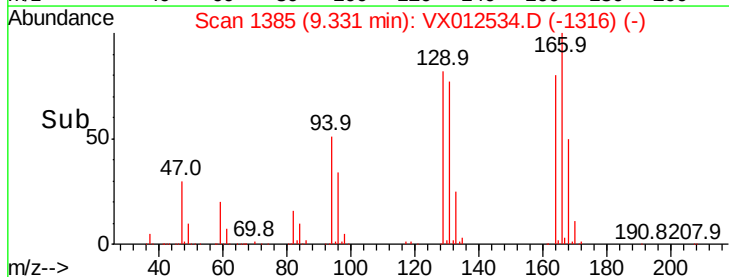
1000

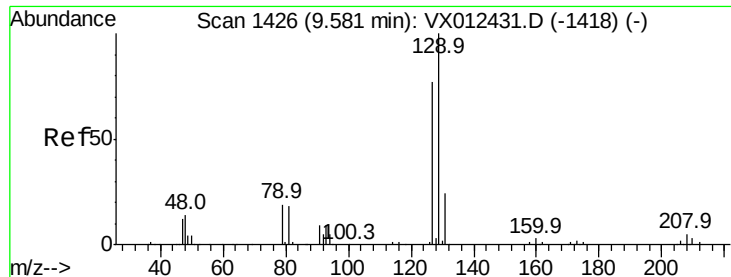
500

0

9.30 9.35

Time-->





#60

Dibromochloromethane

Concen: 53.767 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

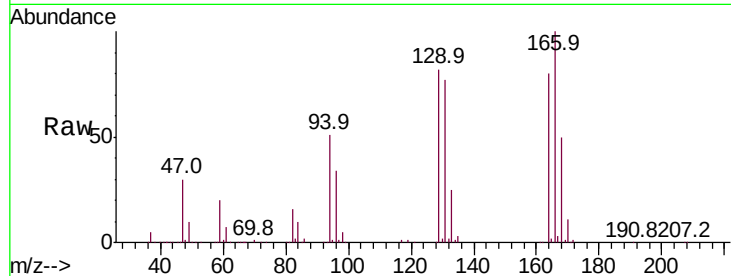
979-S-1-(18-19)DL

Tot Ion:129 Resp: 101793

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

80000

60000

40000

20000

0

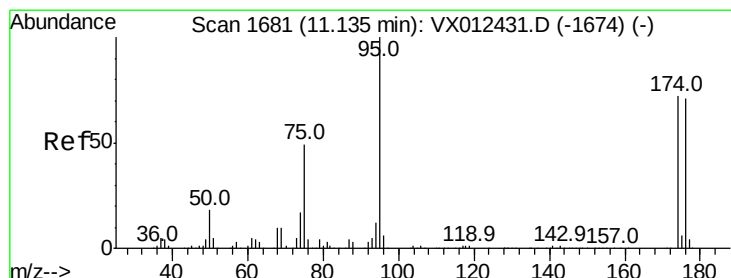
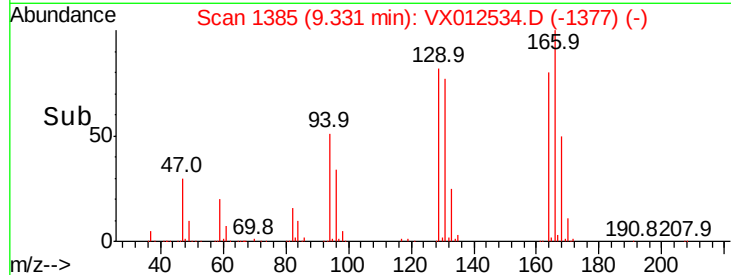
Time-->

9.25

9.30

9.35

9.40



#62

4-Bromofluorobenzene

Concen: 44.863 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

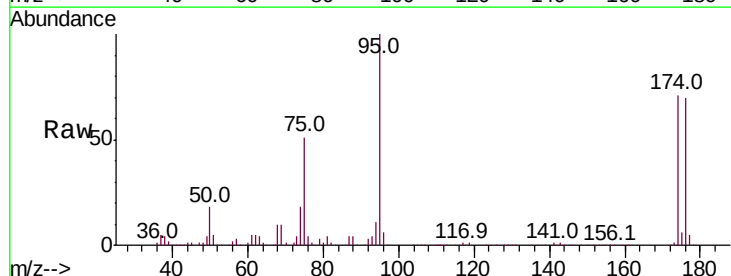
Tgt Ion: 95 Resp: 120895

Ion Ratio Lower Upper

95 100

174 68.6 0.0 140.0

176 66.8 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

120000

100000

80000

60000

40000

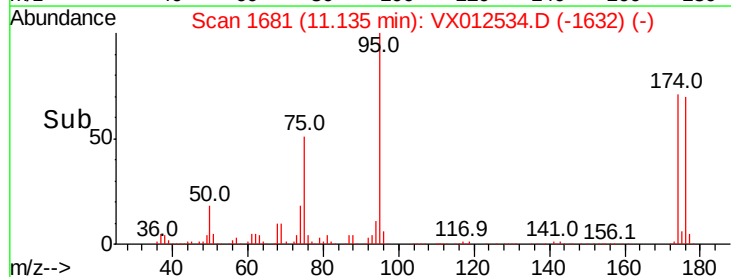
20000

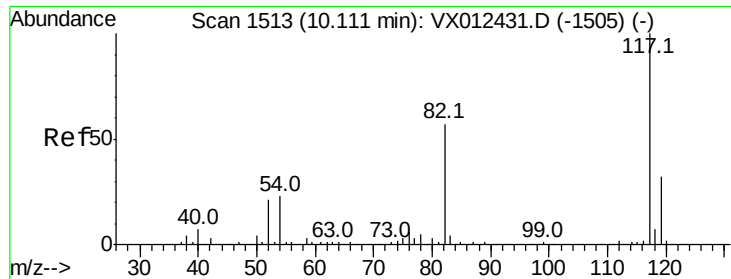
0

Time-->

11.10

11.20

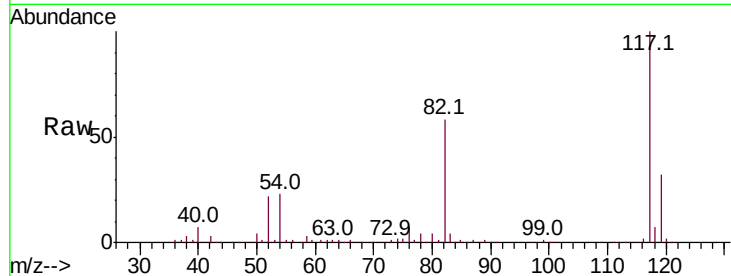




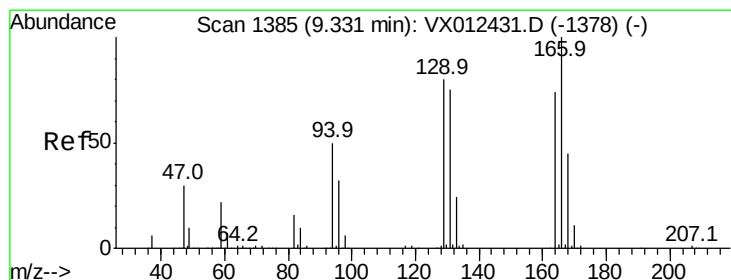
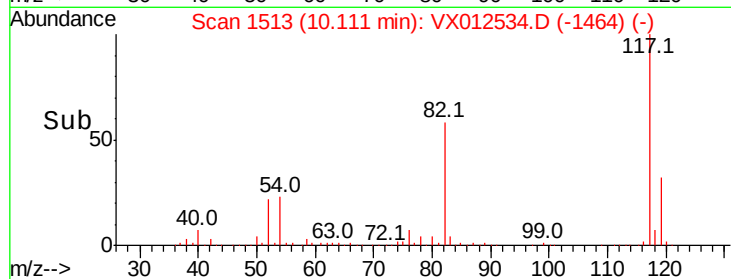
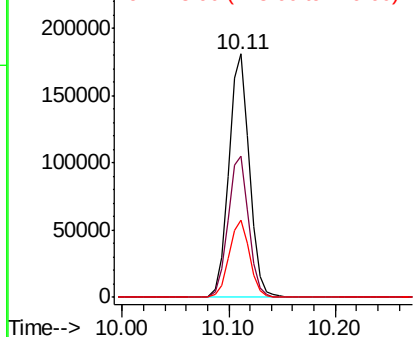
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012534.D
Acq: 19 Sep 2019 17:30

Instrument :
MSVOA_X
ClientSampleId :
979-S-1-(18-19)DL

Tot Ion:117 Resp: 244307
Ion Ratio Lower Upper
117 100
82 58.0 45.9 68.9
119 31.9 25.3 37.9

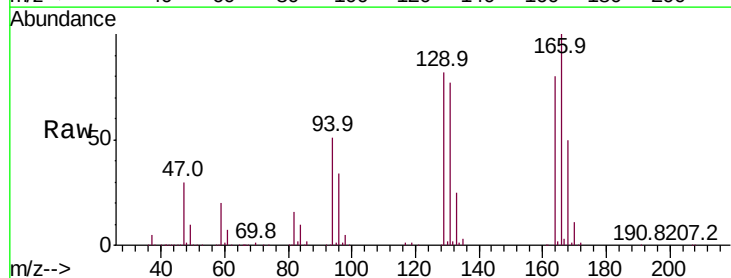


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

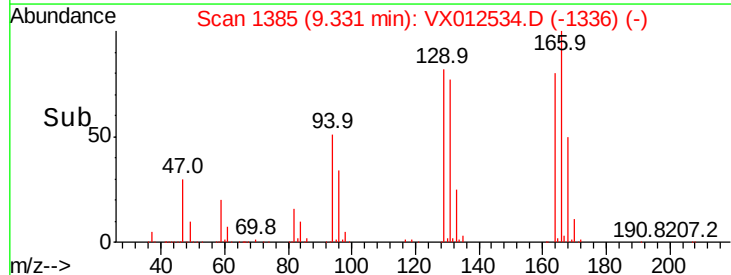
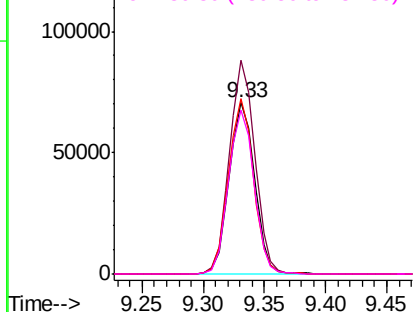


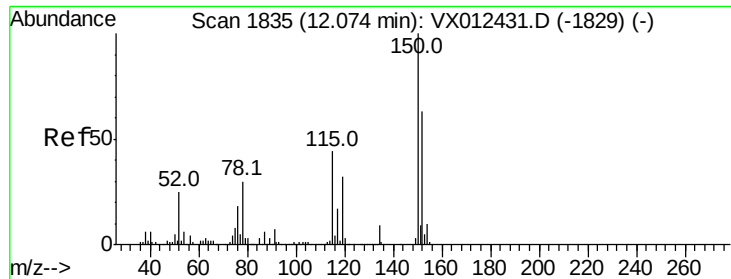
#64
Tetrachloroethene
Concen: 90.779 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX012534.D
Acq: 19 Sep 2019 17:30

Tgt Ion:164 Resp: 101628
Ion Ratio Lower Upper
164 100
166 124.8 107.8 161.6
129 102.6 86.2 129.2
131 95.5 80.4 120.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



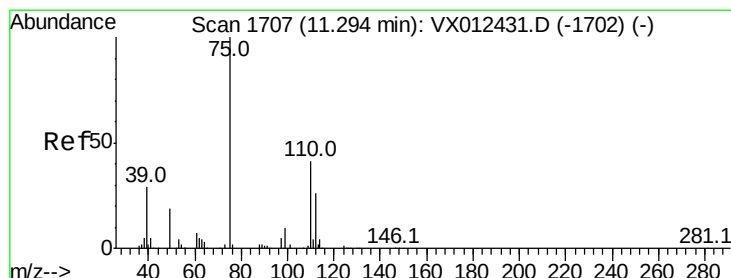
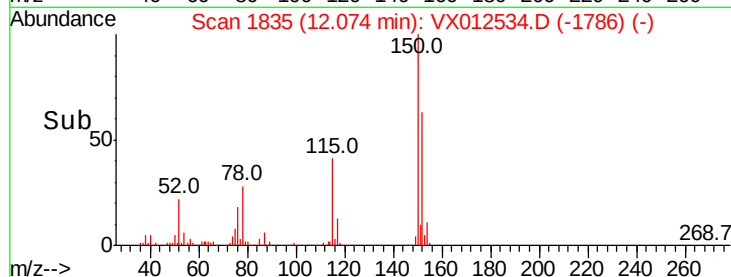
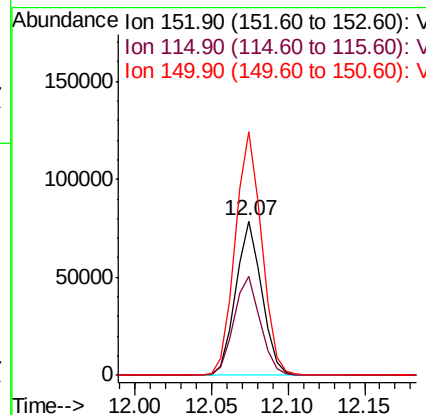
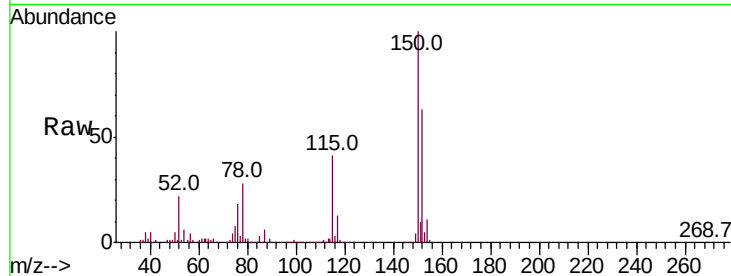


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012534.D
Acq: 19 Sep 2019 17:30

Instrument :
MSVOA_X
ClientSampleId :
979-S-1-(18-19)DL

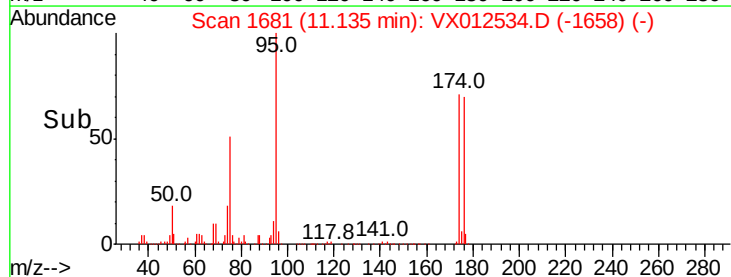
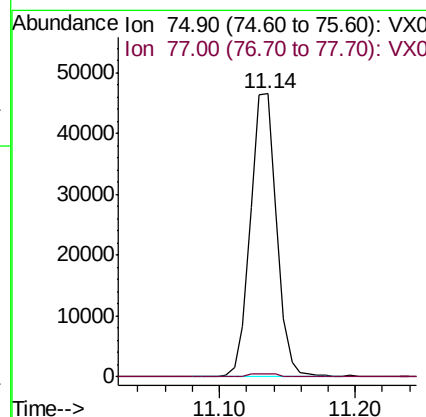
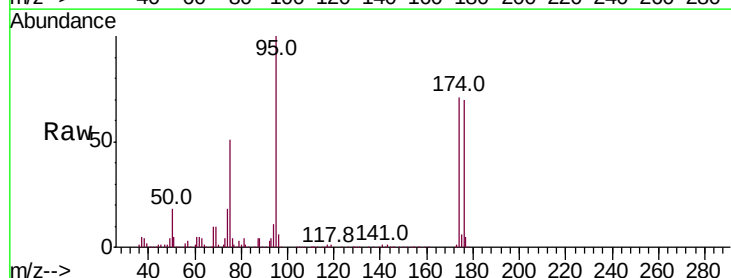
Tot Ion:152 Resp: 92997
Ion Ratio Lower Upper
152 100
115 65.2 44.1 132.3
150 160.1 0.0 343.8

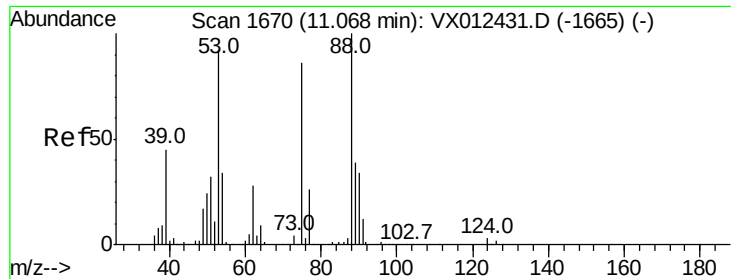


#76

1,2,3-Trichloropropane
Concen: 29.524 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.16 min
Lab File: VX012534.D
Acq: 19 Sep 2019 17:30

Tgt Ion: 75 Resp: 63069
Ion Ratio Lower Upper
75 100
77 1.5 19.7 59.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 79.131 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012534.D

Acq: 19 Sep 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

979-S-1-(18-19)DL

Tot Ion: 75 Resp: 63069

Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

89 0.1 36.3 54.5#

