

Data File : VX012444.D
Acq On : 17 Sep 2019 20:15
Operator : JC/SP
Sample : K4858-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE135D1-20190910

Quant Time: Sep 18 03:26:24 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	129782	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	206112	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	170309	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	62360	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	89659	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	
35) Dibromofluoromethane	5.49	113	63403	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	
50) Toluene-d8	8.71	98	237392	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
62) 4-Bromofluorobenzene	11.14	95	81551	42.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.08%	

Target Compounds

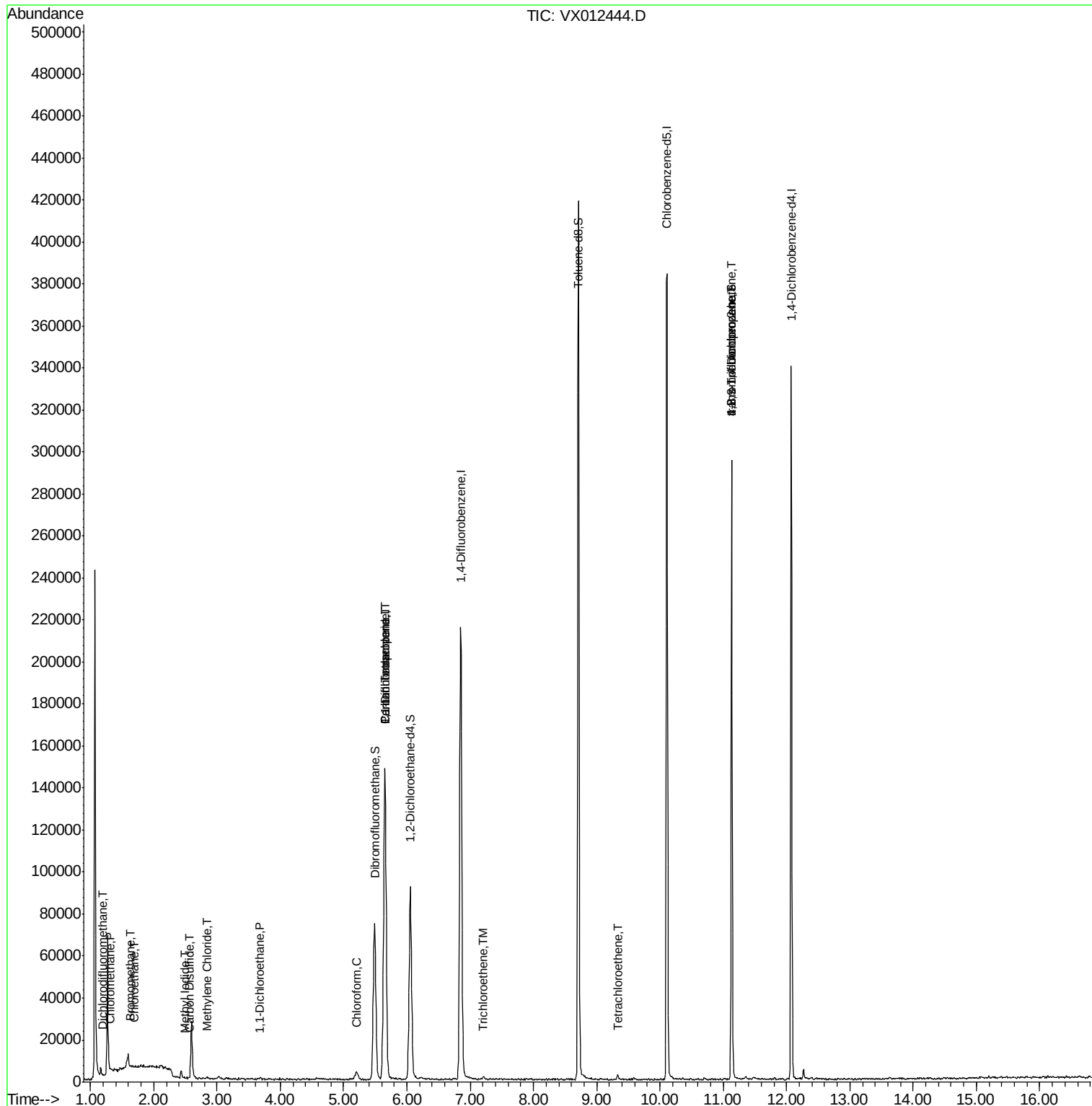
						Qvalue
2) Dichlorodifluoromethane	1.20	85	54	0.453	ug/l #	43
3) Chloromethane	1.32	50	589	0.826	ug/l #	77
5) Bromomethane	1.64	94	376	1.241	ug/l	83
6) Chloroethane	1.69	64	218	0.361	ug/l #	57
10) Methyl Iodide	2.50	142	282	4.735	ug/l #	85
11) Tert butyl alcohol	3.03	59	1377	Below Cal	#	93
13) Acrolein	2.29	56	102	Below Cal	#	1
16) Acetone	2.43	43	3704	Below Cal		95
17) Carbon Disulfide	2.55	76	357	2.105	ug/l #	75
20) Methylene Chloride	2.85	84	369	0.328	ug/l #	76
24) 1,1-Dichloroethane	3.67	63	435	0.204	ug/l #	81
30) Chloroform	5.21	83	4113	1.683	ug/l	85
36) 1,1-Dichloropropene	5.65	75	11304	9.024	ug/l #	54
38) Carbon Tetrachloride	5.65	117	14154	9.085	ug/l #	16
44) Trichloroethene	7.20	130	528	0.504	ug/l	64
64) Tetrachloroethene	9.34	164	275	0.352	ug/l #	63
76) 1,2,3-Trichloropropane	11.13	75	42664	29.784	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	42664	79.801	ug/l #	8

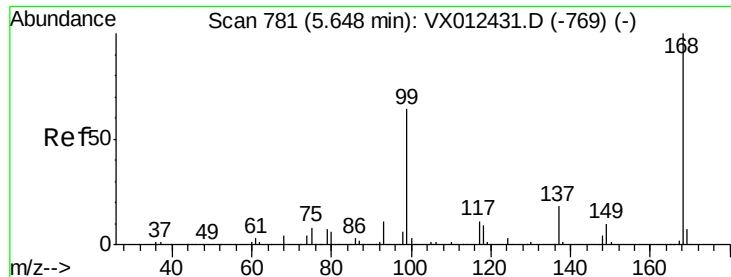
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012444.D

Acq: 17 Sep 2019 20:15

Instrument :

MSVOA_X

ClientSampleId :

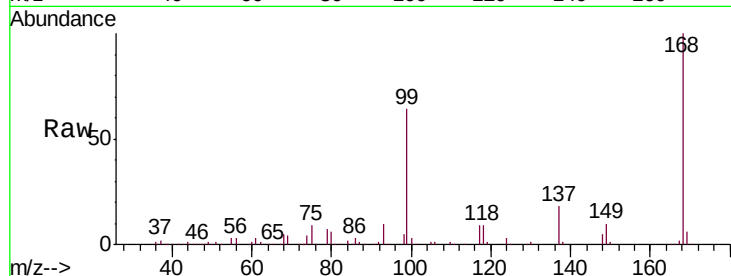
RE135D1-20190910

Tgt Ion:168 Resp: 129782

Ion Ratio Lower Upper

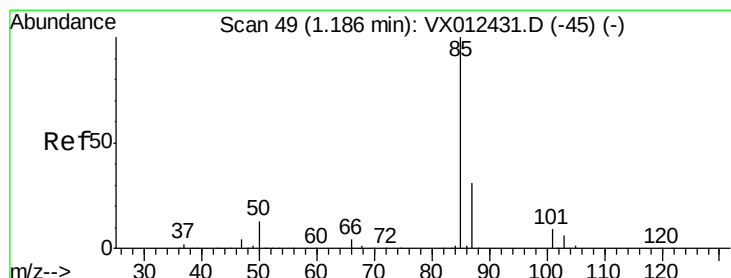
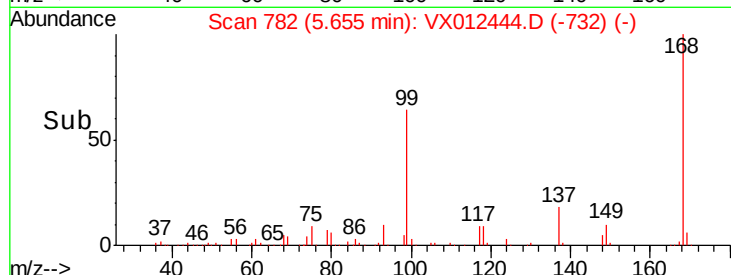
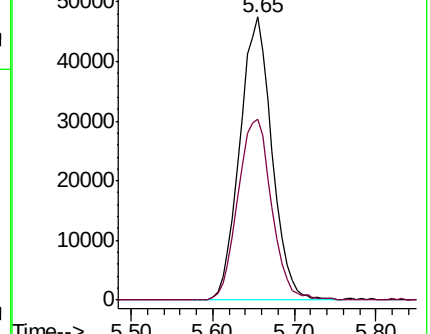
168 100

99 63.8 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: 0.453 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX012444.D

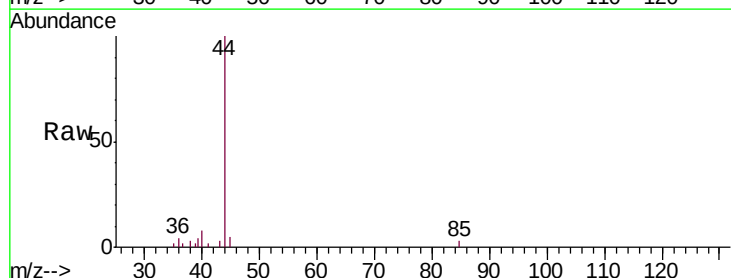
Acq: 17 Sep 2019 20:15

Tgt Ion: 85 Resp: 54

Ion Ratio Lower Upper

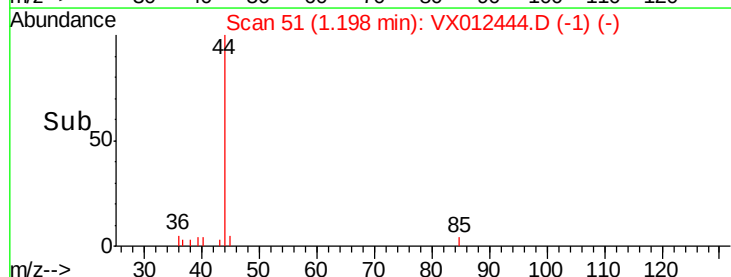
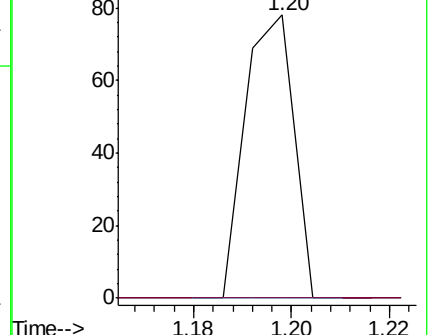
85 100

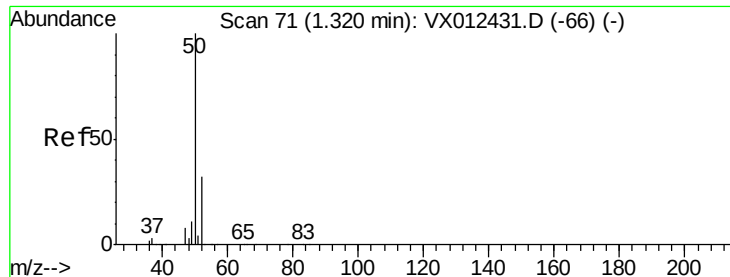
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.826 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

Instrument :

MSVOA_X

ClientSampleId :

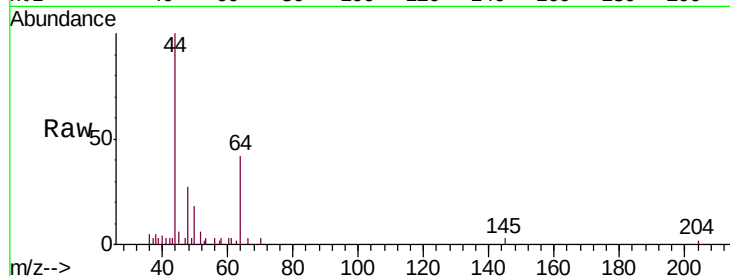
RE135D1-20190910

Tgt Ion: 50 Resp: 589

Ion Ratio Lower Upper

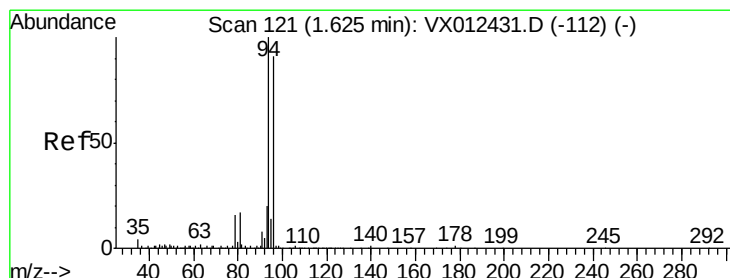
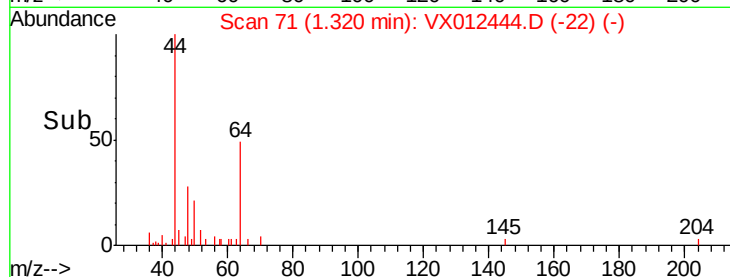
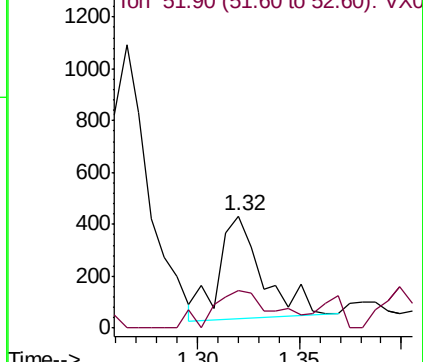
50 100

52 19.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 1.241 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012444.D

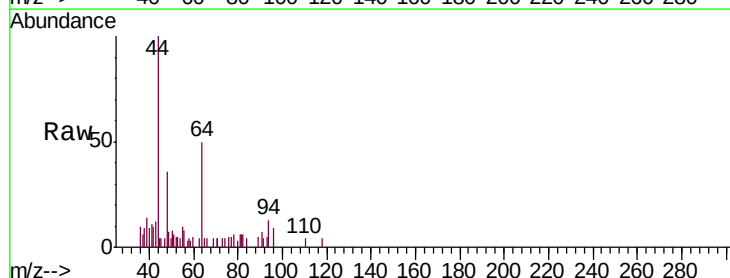
Acq: 17 Sep 2019 20:15

Tgt Ion: 94 Resp: 376

Ion Ratio Lower Upper

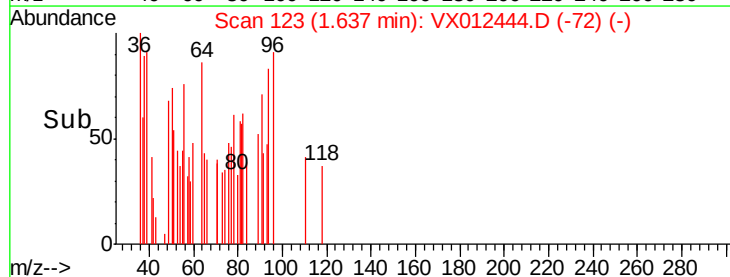
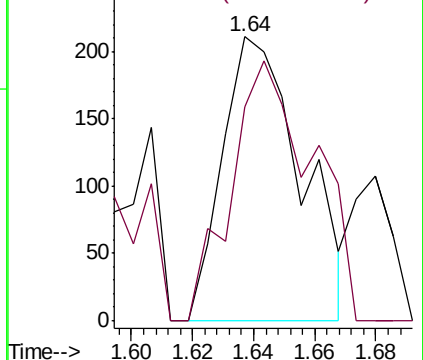
94 100

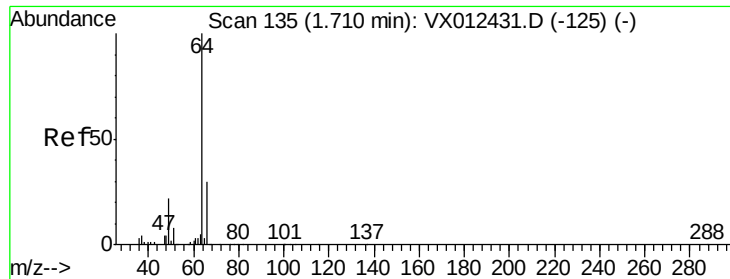
96 75.4 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.361 ug/l

RT: 1.69 min Scan# 132

Delta R.T. -0.02 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

Instrument :

MSVOA_X

ClientSampleId :

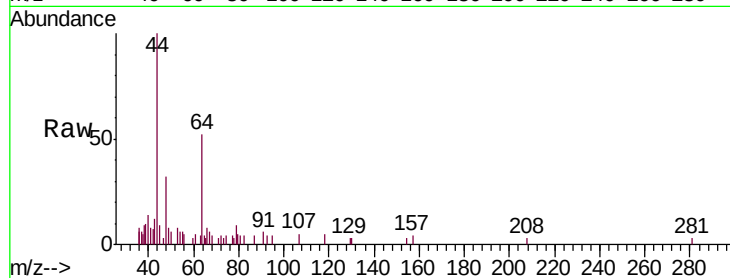
RE135D1-20190910

Tgt Ion: 64 Resp: 218

Ion Ratio Lower Upper

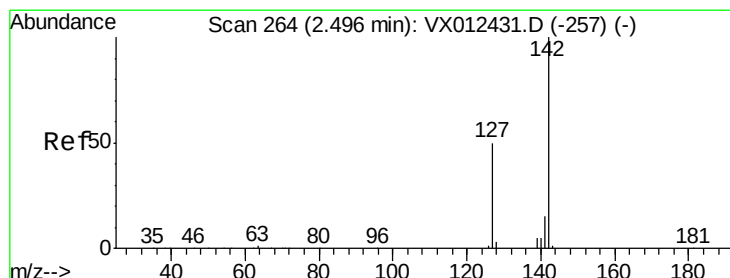
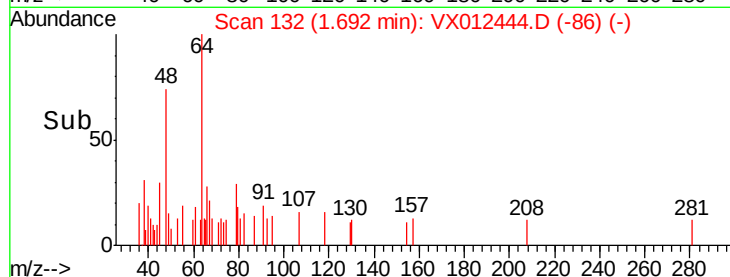
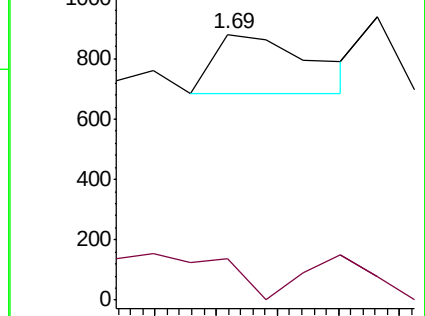
64 100

66 6.6 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: 4.735 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

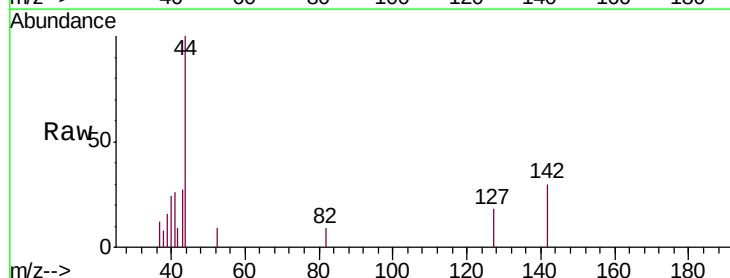
Tgt Ion: 142 Resp: 282

Ion Ratio Lower Upper

142 100

127 56.7 40.8 61.2

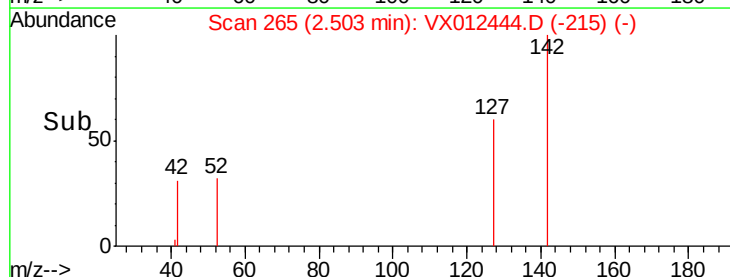
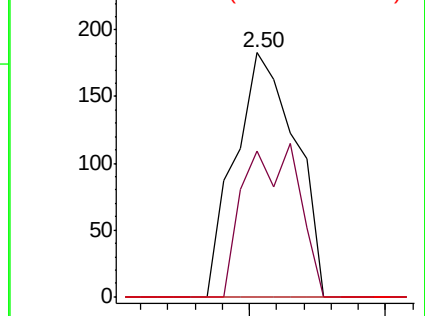
141 0.0 12.1 18.1#

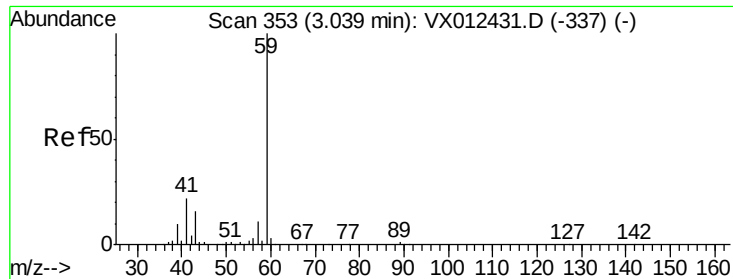


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

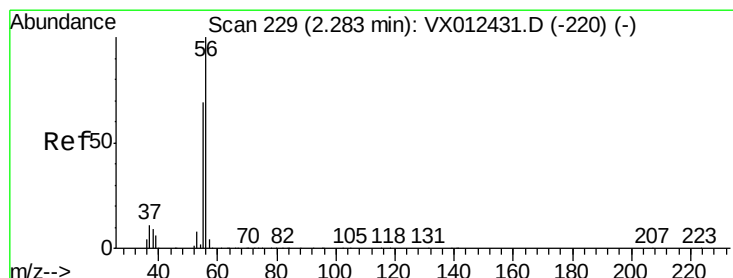
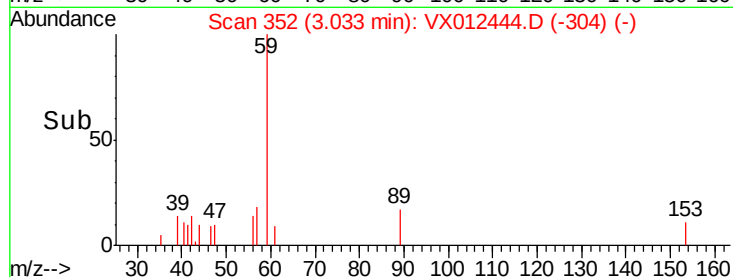
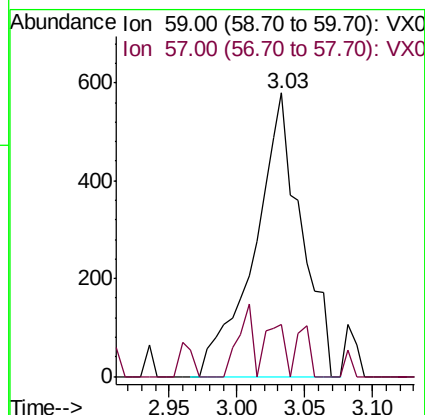
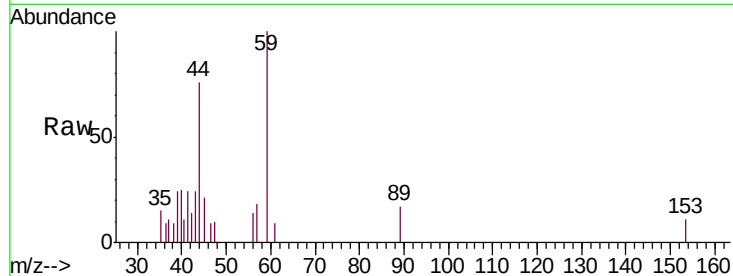




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 352
Delta R.T. -0.01 min
Lab File: VX012444.D
Acq: 17 Sep 2019 20:15

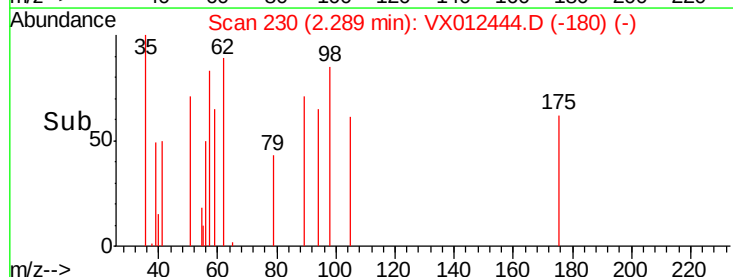
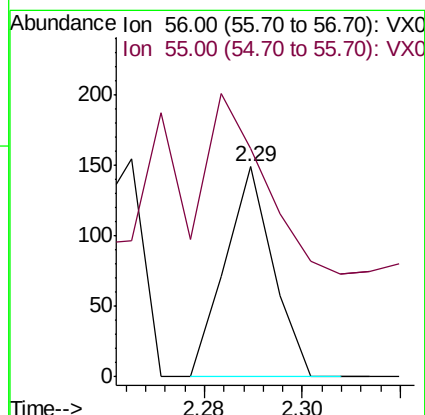
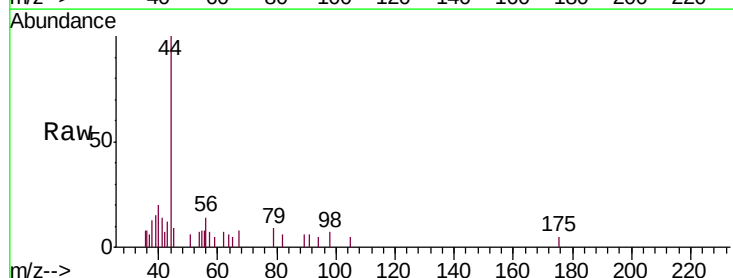
Instrument :
MSVOA_X
ClientSampleId :
RE135D1-20190910

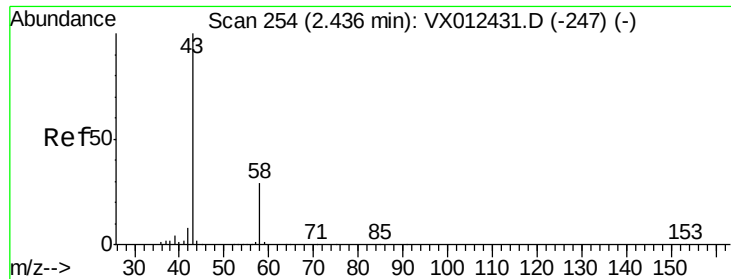
Tgt Ion: 59 Resp: 1377
Ion Ratio Lower Upper
59 100
57 7.9 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX012444.D
Acq: 17 Sep 2019 20:15

Tgt Ion: 56 Resp: 102
Ion Ratio Lower Upper
56 100
55 385.3 55.8 83.8#





#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

Instrument :

MSVOA_X

ClientSampleId :

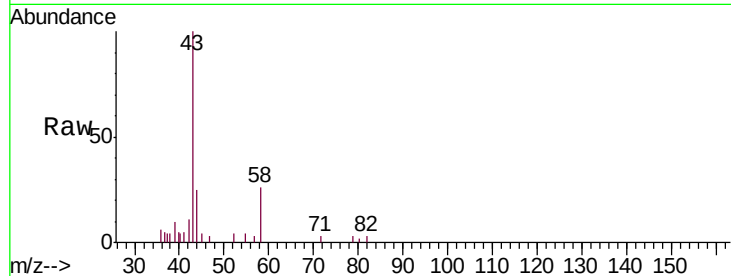
RE135D1-20190910

Tgt Ion: 43 Resp: 3704

Ion Ratio Lower Upper

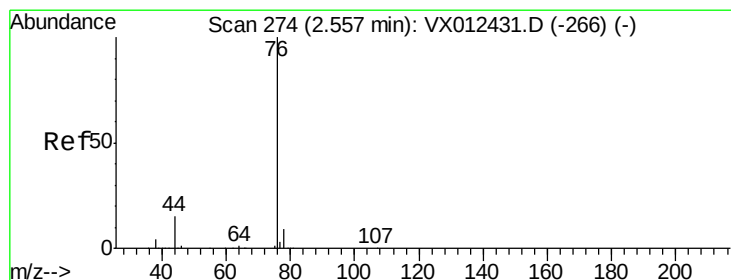
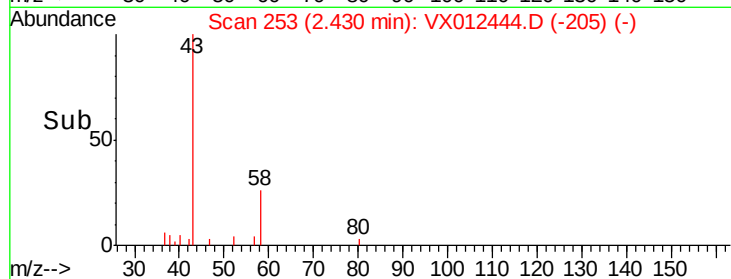
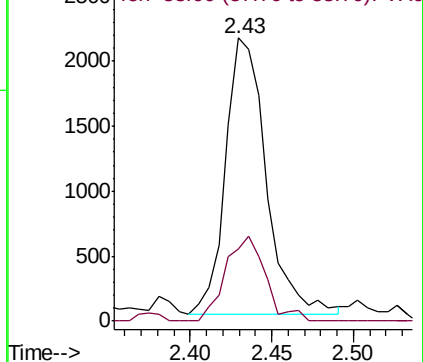
43 100

58 26.3 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: 2.105 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX012444.D

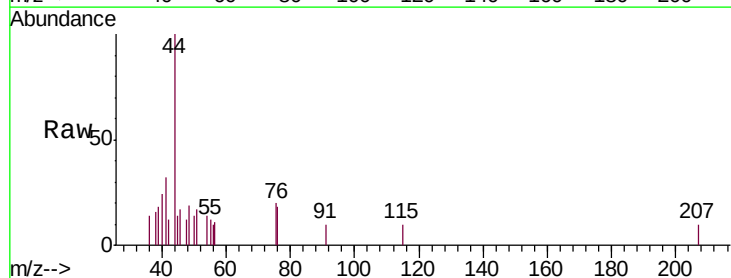
Acq: 17 Sep 2019 20:15

Tgt Ion: 76 Resp: 357

Ion Ratio Lower Upper

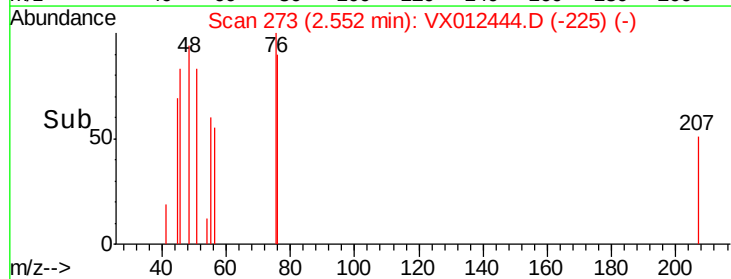
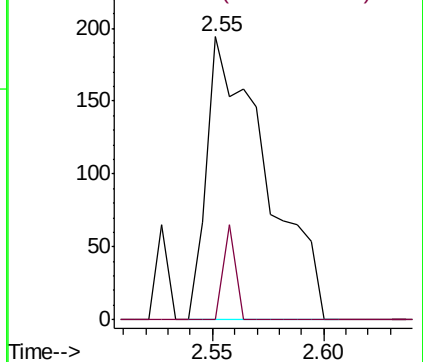
76 100

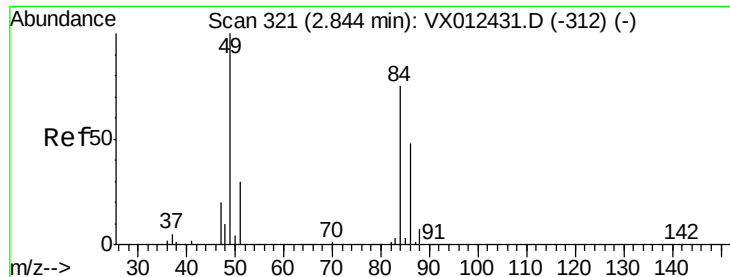
78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

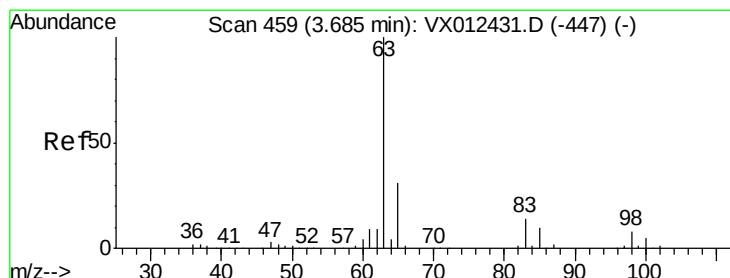
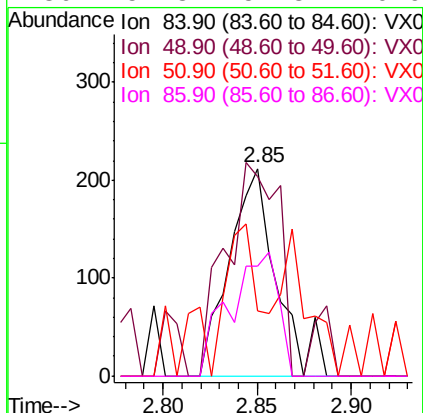
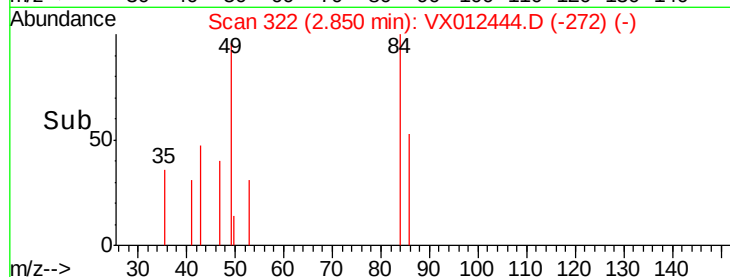
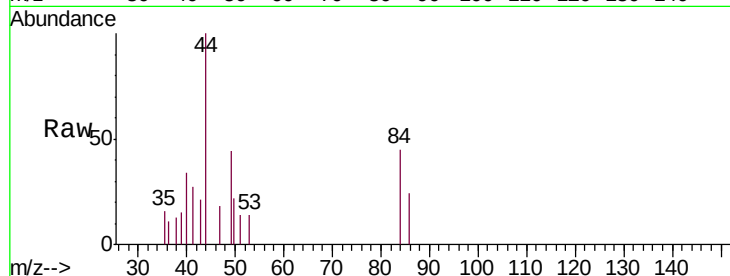




#20
Methylene Chloride
Concen: 0.328 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX012444.D
Acq: 17 Sep 2019 20:15

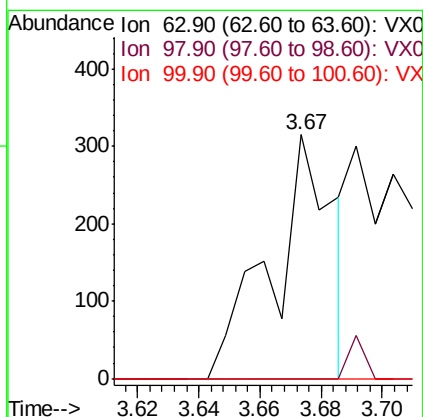
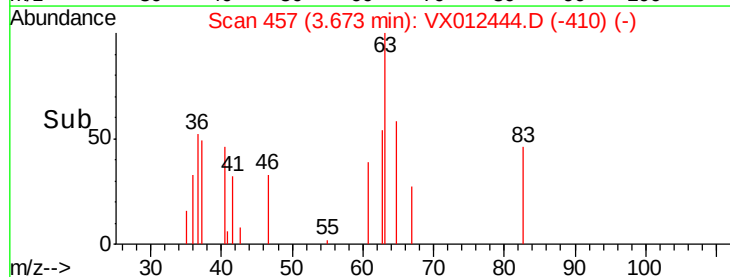
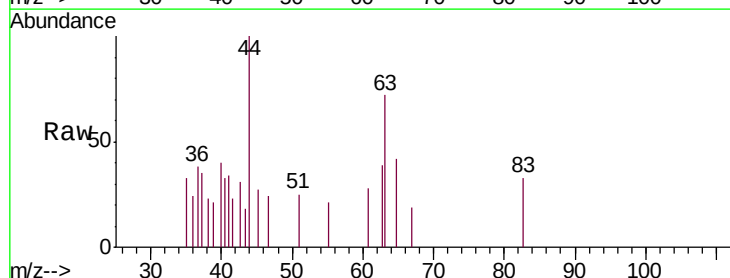
Instrument :
MSVOA_X
ClientSampleId :
RE135D1-20190910

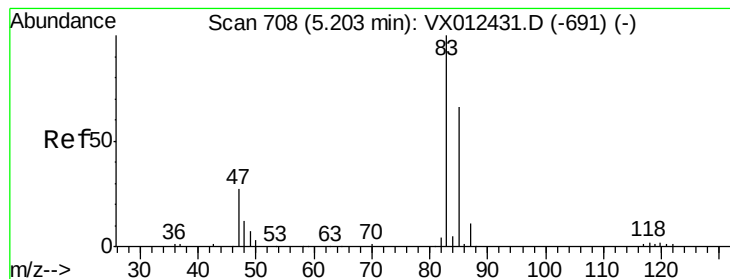
Tgt Ion: 84 Resp: 369
Ion Ratio Lower Upper
84 100
49 96.2 106.8 160.2#
51 31.1 32.3 48.5#
86 52.8 51.3 76.9



#24
1,1-Dichloroethane
Concen: 0.204 ug/l
RT: 3.67 min Scan# 457
Delta R.T. -0.01 min
Lab File: VX012444.D
Acq: 17 Sep 2019 20:15

Tgt Ion: 63 Resp: 435
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.7#
100 0.0 2.3 6.9#





#30

Chloroform

Concen: 1.683 ug/l

RT: 5.21 min Scan# 709

Delta R.T. 0.01 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

Instrument :

MSVOA_X

ClientSampleId :

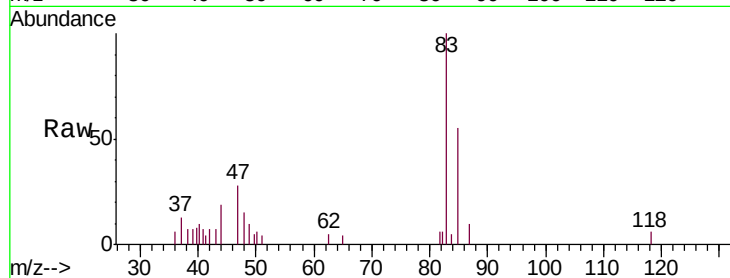
RE135D1-20190910

Tgt Ion: 83 Resp: 4113

Ion Ratio Lower Upper

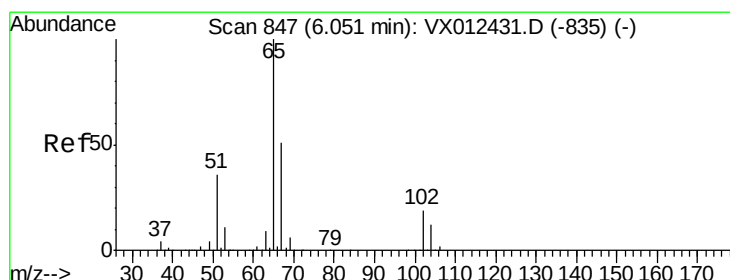
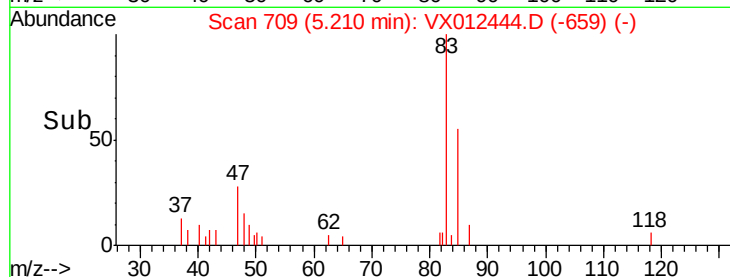
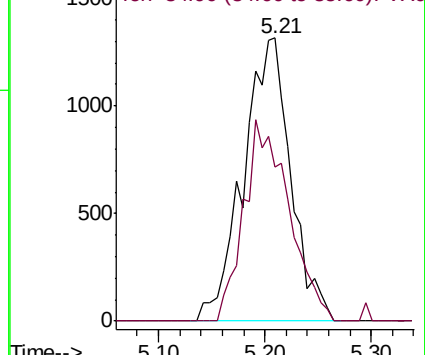
83 100

85 54.6 53.0 79.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.203 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012444.D

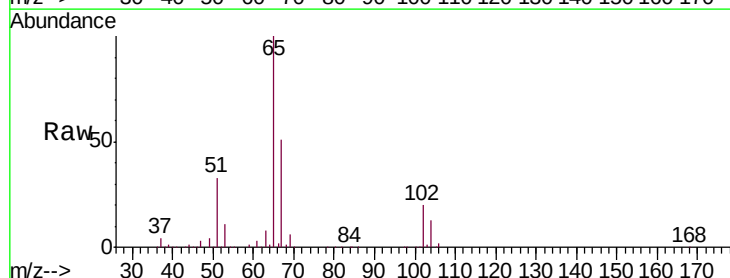
Acq: 17 Sep 2019 20:15

Tgt Ion: 65 Resp: 89659

Ion Ratio Lower Upper

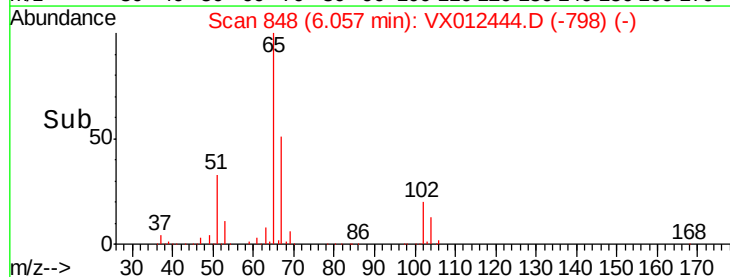
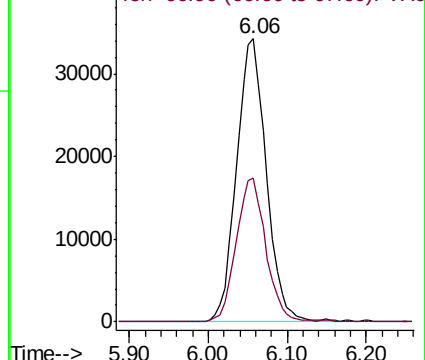
65 100

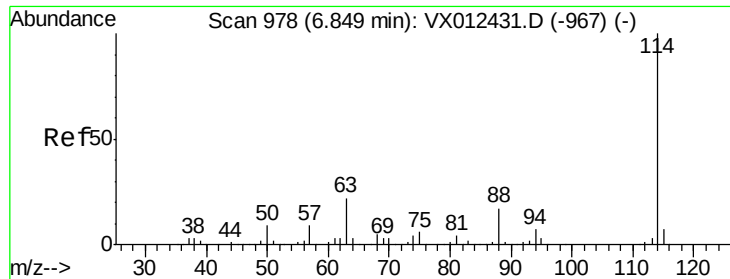
67 50.4 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

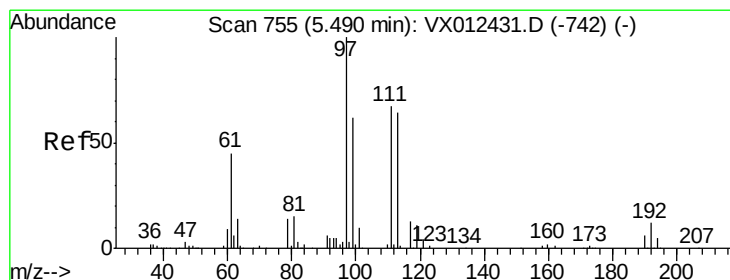
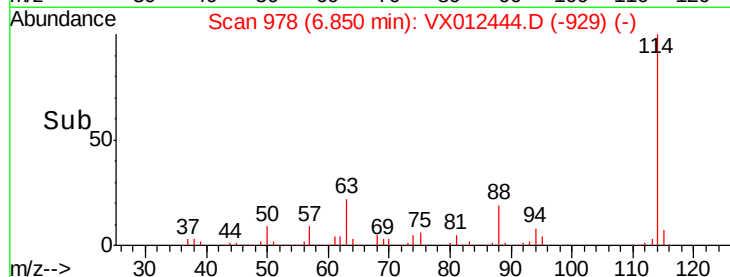
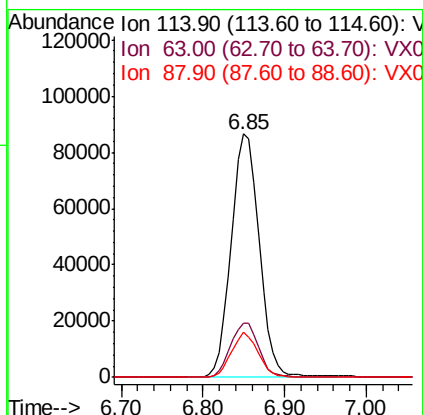
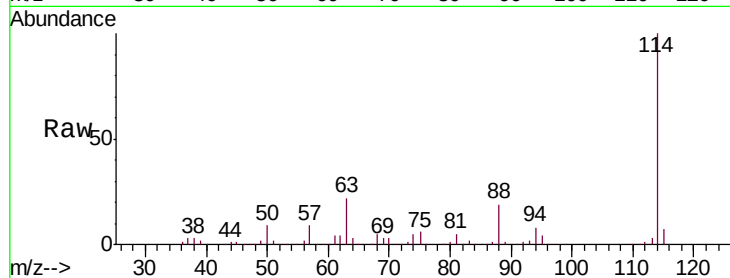




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012444.D
 Acq: 17 Sep 2019 20:15

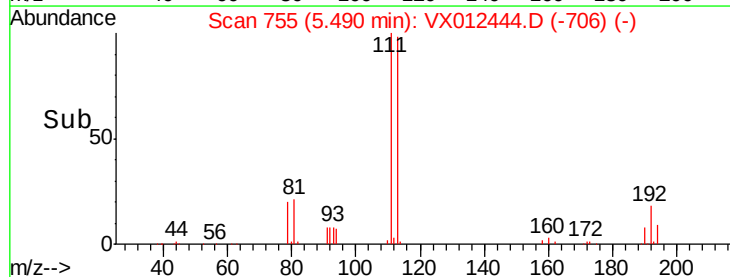
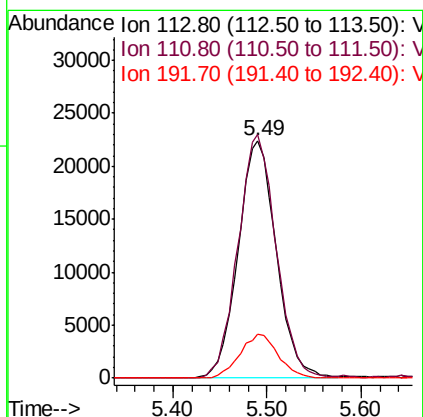
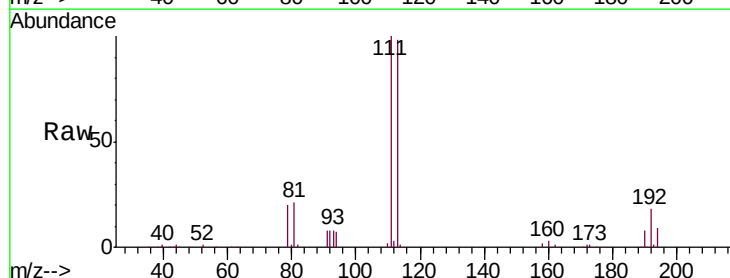
Instrument :
 MSVOA_X
 ClientSampleId :
 RE135D1-20190910

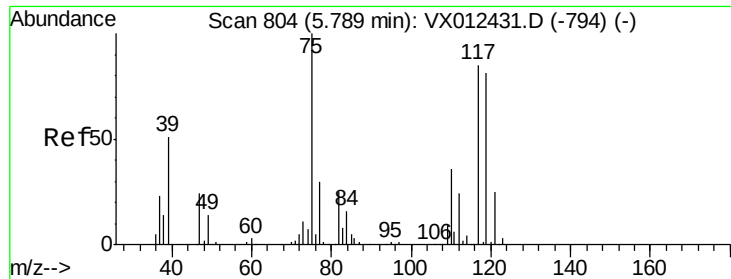
Tgt Ion:114 Resp: 206112
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.2
 88 18.6 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 50.824 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012444.D
 Acq: 17 Sep 2019 20:15

Tgt Ion:113 Resp: 63403
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.4 125.2
 192 18.6 14.4 21.6

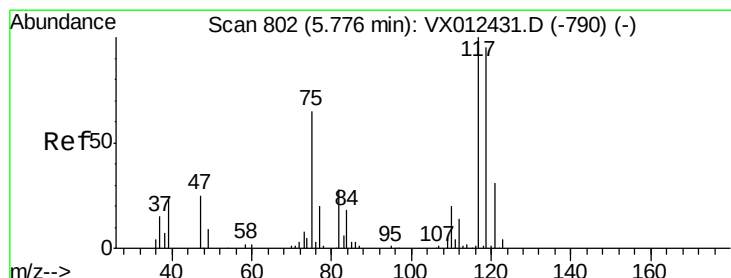
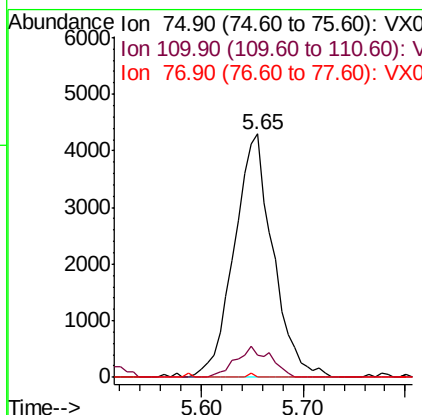
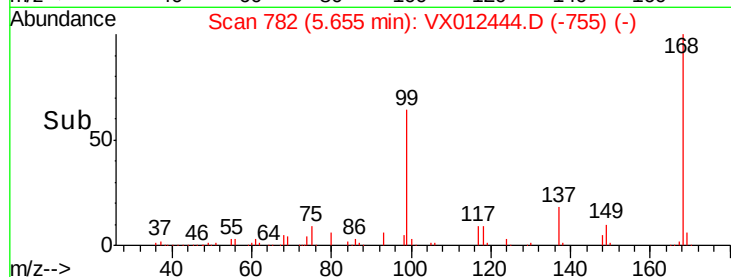
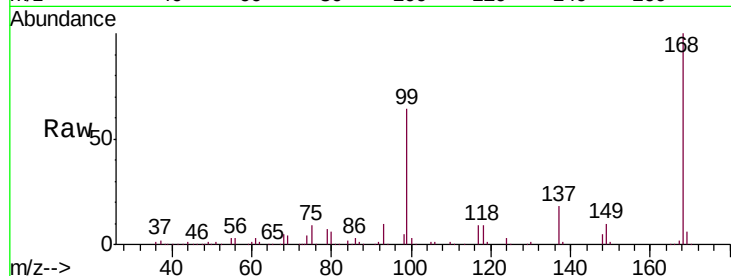




#36
 1,1-Dichloropropene
 Concen: 9.024 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012444.D
 Acq: 17 Sep 2019 20:15

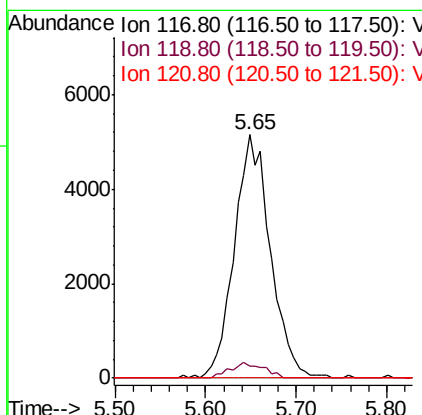
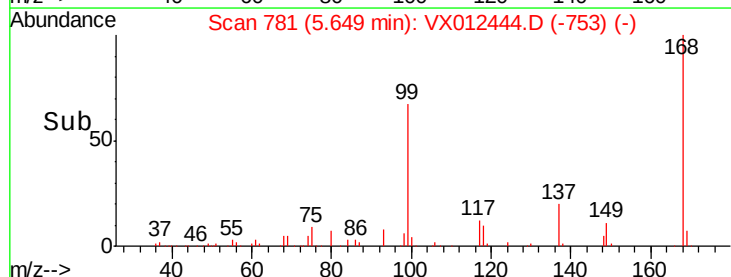
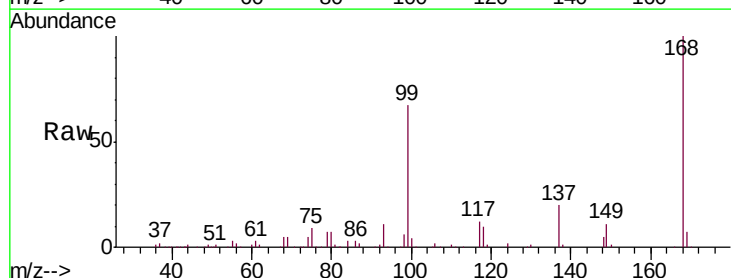
Instrument :
 MSVOA_X
 ClientSampleId :
 RE135D1-20190910

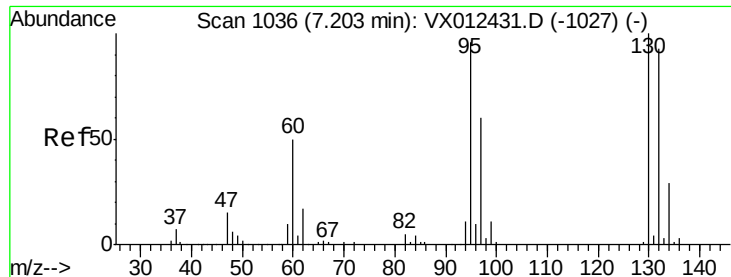
Tgt Ion: 75 Resp: 11304
 Ion Ratio Lower Upper
 75 100
 110 11.4 16.7 50.0#
 77 0.2 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 9.085 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012444.D
 Acq: 17 Sep 2019 20:15

Tgt Ion: 117 Resp: 14154
 Ion Ratio Lower Upper
 117 100
 119 4.9 75.7 113.5#
 121 0.0 24.2 36.4#

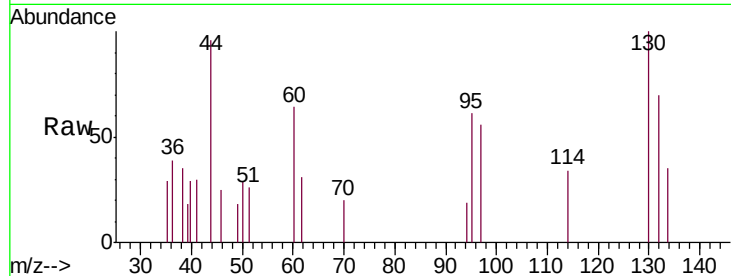




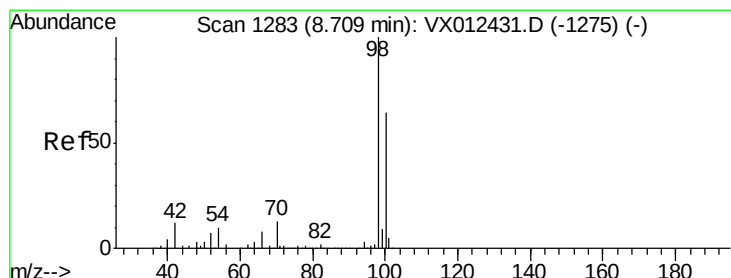
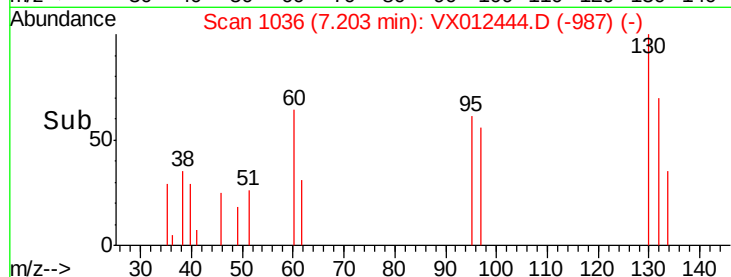
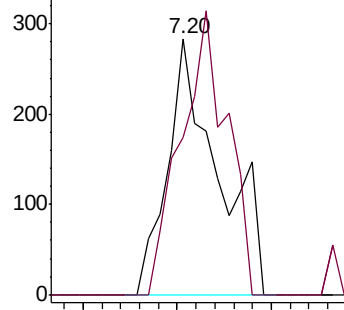
#44
 Trichloroethene
 Concen: 0.504 ug/l
 RT: 7.20 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: VX012444.D
 Acq: 17 Sep 2019 20:15

Instrument :
 MSVOA_X
 ClientSampleId :
 RE135D1-20190910

Tgt Ion:130 Resp: 528
 Ion Ratio Lower Upper
 130 100
 95 61.3 0.0 193.0

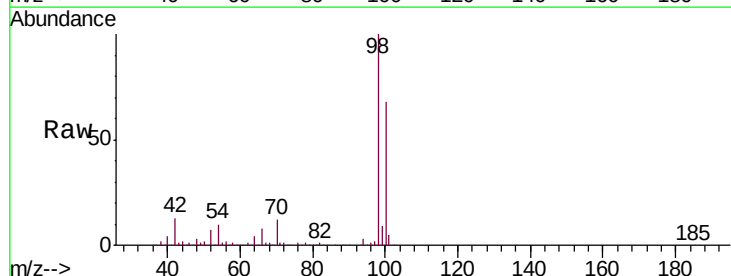


Abundance Ion 129.80 (129.50 to 130.50): VX012431.D (-1027) (-)
 Ion 94.90 (94.60 to 95.60): VX012431.D (-1027) (-)

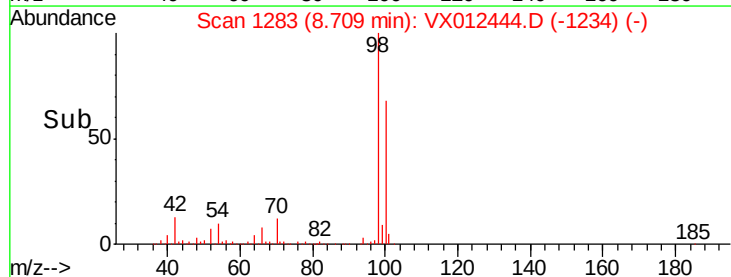
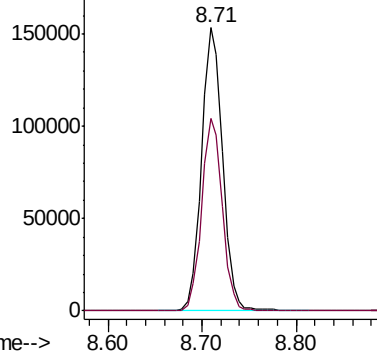


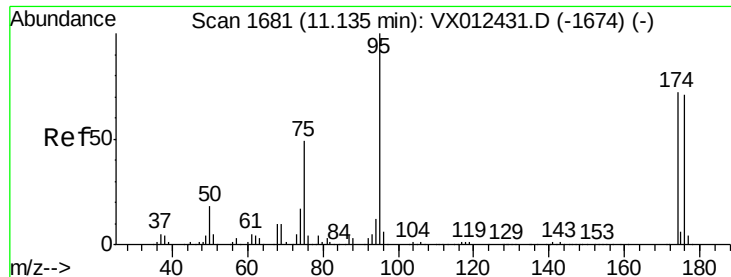
#50
 Toluene-d8
 Concen: 51.410 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VX012444.D
 Acq: 17 Sep 2019 20:15

Tgt Ion: 98 Resp: 237392
 Ion Ratio Lower Upper
 98 100
 100 66.6 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX012431.D (-1275) (-)
 Ion 100.00 (99.70 to 100.70): VX012431.D (-1275) (-)





#62

4-Bromofluorobenzene

Concen: 42.535 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

Instrument :

MSVOA_X

ClientSampleId :

RE135D1-20190910

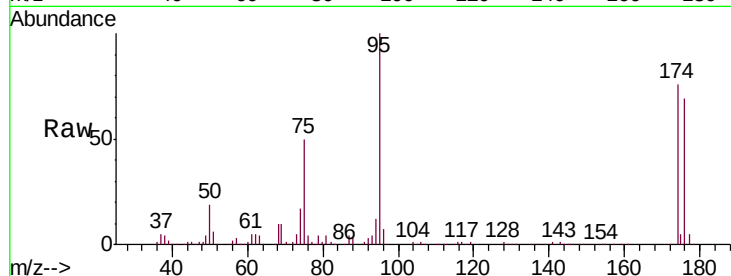
Tgt Ion: 95 Resp: 81551

Ion Ratio Lower Upper

95 100

174 70.8 0.0 140.0

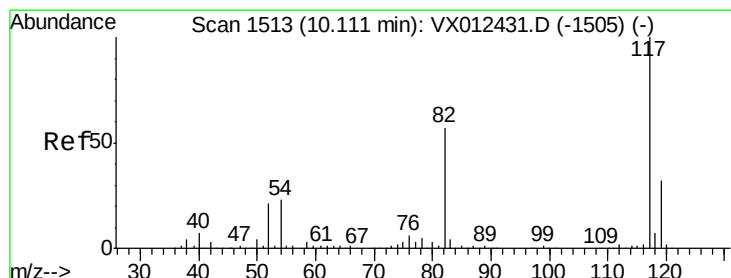
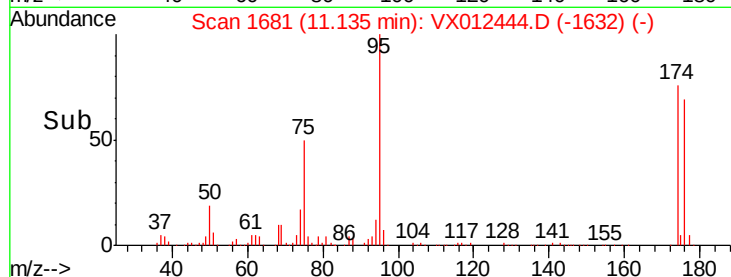
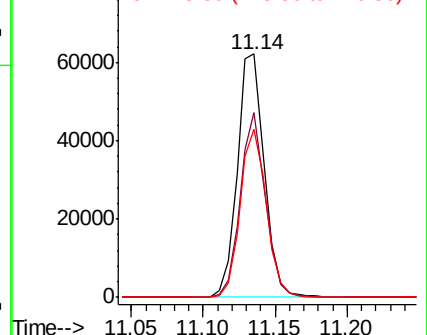
176 66.8 0.0 135.4



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

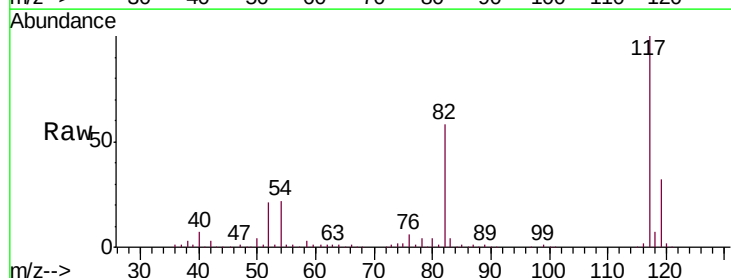
Tgt Ion: 117 Resp: 170309

Ion Ratio Lower Upper

117 100

82 57.8 45.9 68.9

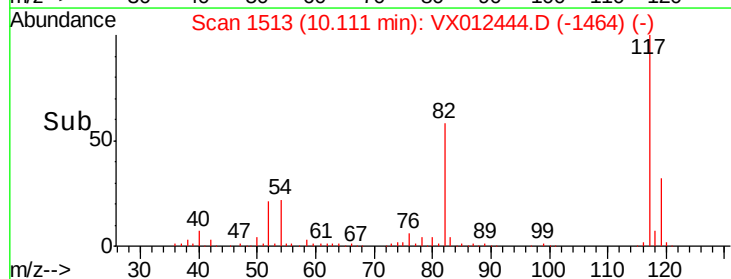
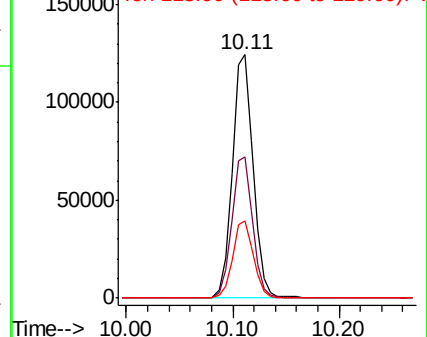
119 31.7 25.3 37.9

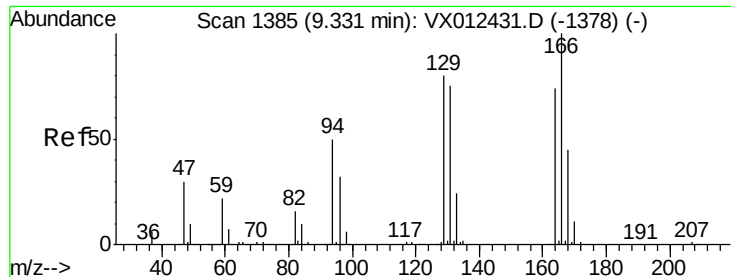


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.352 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

Instrument :

MSVOA_X

ClientSampleId :

RE135D1-20190910

Tgt Ion:164 Resp: 275

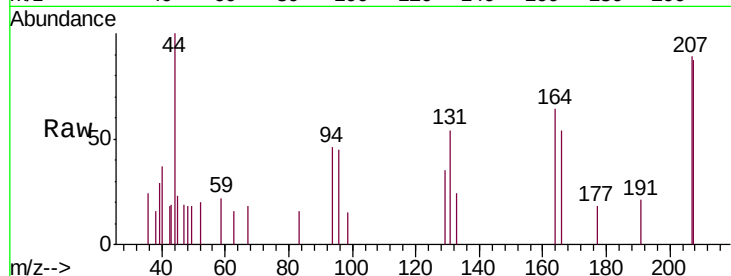
Ion Ratio Lower Upper

164 100

166 84.1 107.8 161.6#

129 54.2 86.2 129.2#

131 85.5 80.4 120.6

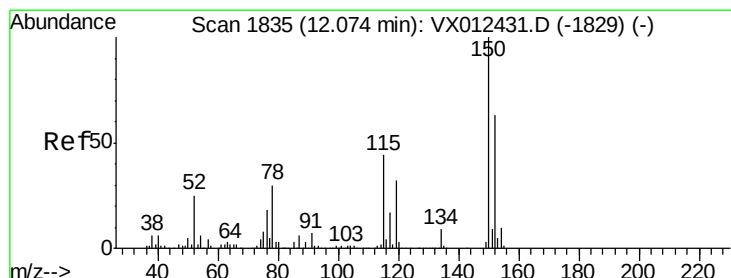
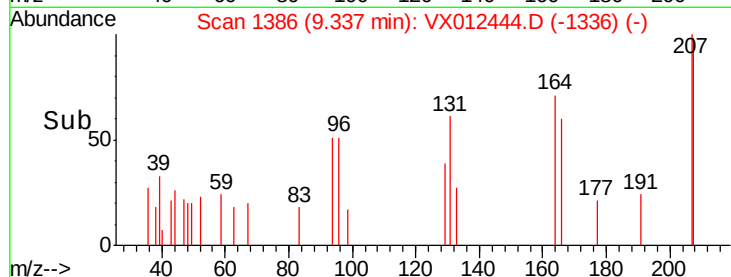
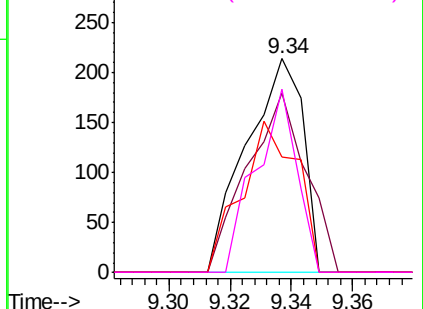


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX012444.D

Acq: 17 Sep 2019 20:15

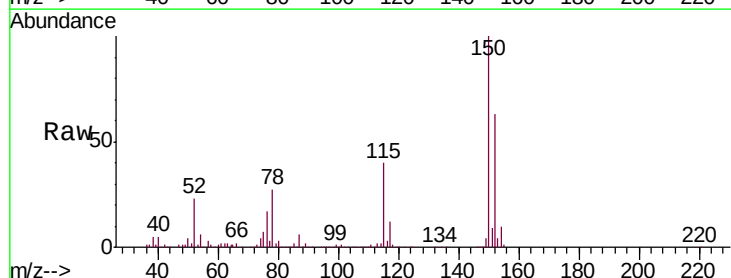
Tgt Ion:152 Resp: 62360

Ion Ratio Lower Upper

152 100

115 65.6 44.1 132.3

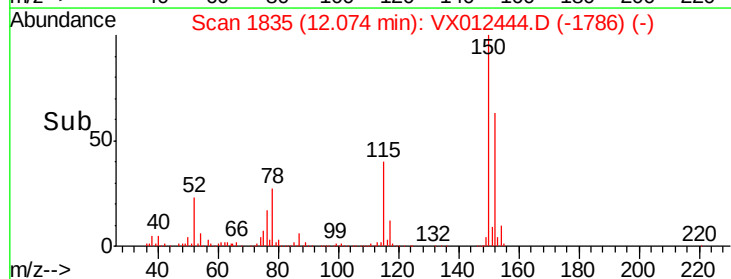
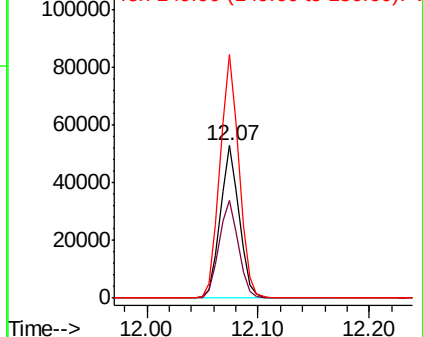
150 160.9 0.0 343.8

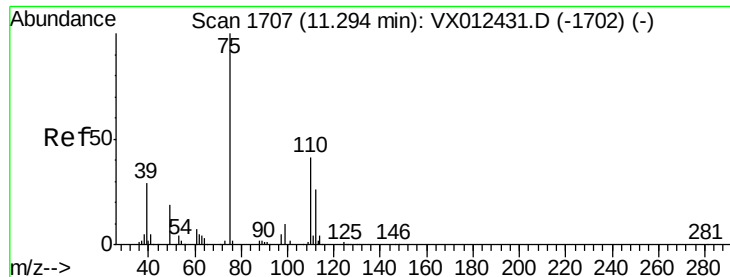


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.784 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

Instrument :

MSVOA_X

ClientSampleId :

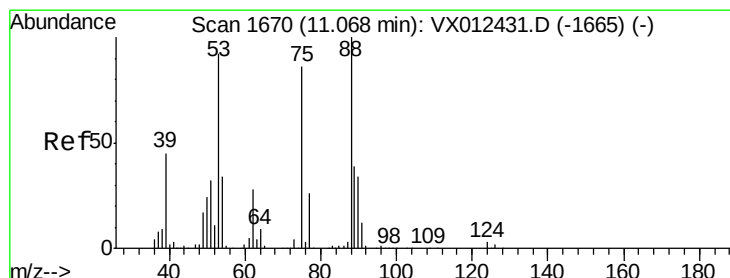
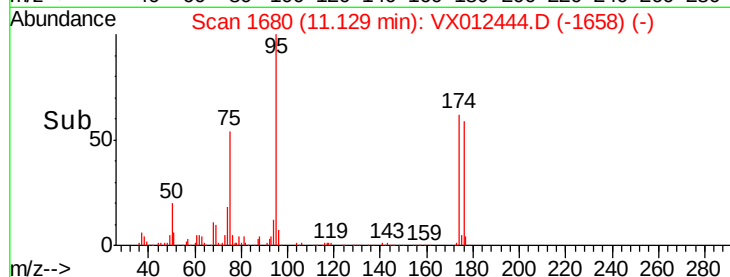
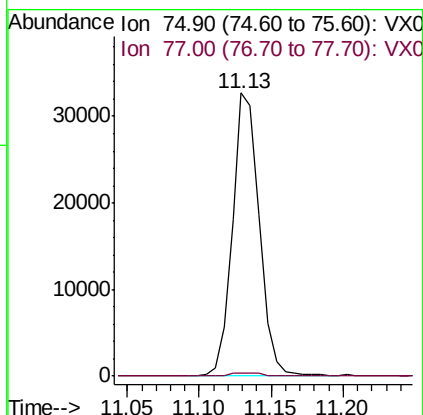
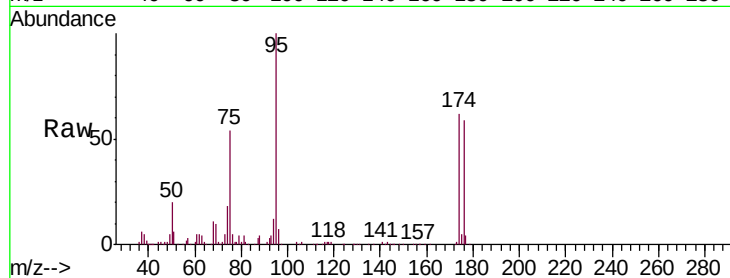
RE135D1-20190910

Tgt Ion: 75 Resp: 42664

Ion Ratio Lower Upper

75 100

77 1.4 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 79.801 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012444.D

Acq: 17 Sep 2019 20:15

Tgt Ion: 75 Resp: 42664

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

