

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VOX092019\
 Data File : VX012560.D
 Acq On : 20 Sep 2019 16:22
 Operator : JC/SP
 Sample : K4858-27DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20190911DL

Quant Time: Sep 21 01:34:53 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	178205	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	288793	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241900	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	99532	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	121172	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
35) Dibromofluoromethane	5.49	113	85349	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
50) Toluene-d8	8.71	98	331938	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	11.14	95	117933	43.90	ug/l	0.00
Spiked Amount			Recovery	=	87.80%	

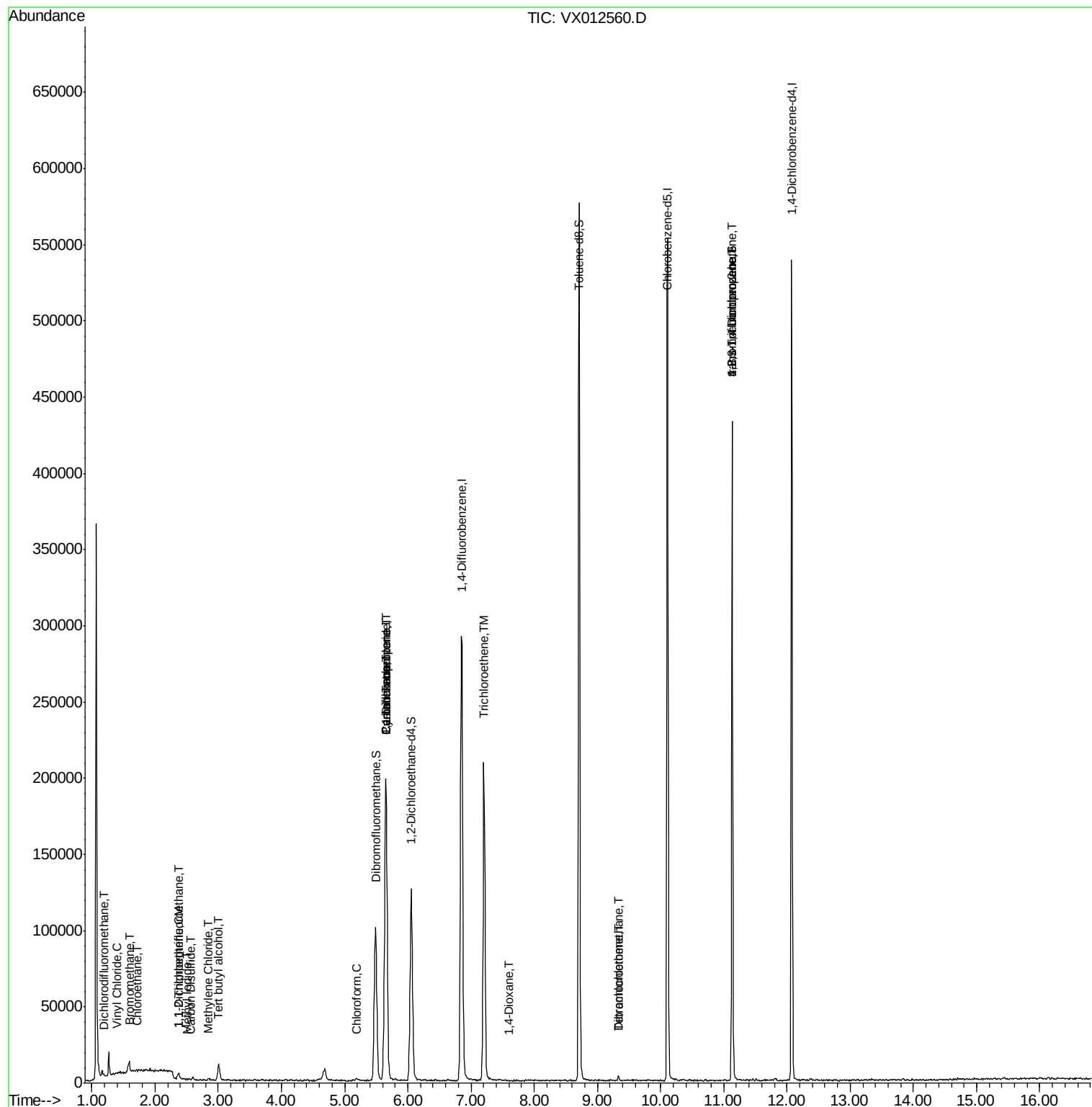
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	22	0.410	ug/l #	1
4) Vinyl Chloride	1.39	62	305	0.288	ug/l #	75
5) Bromomethane	1.61	94	126	0.303	ug/l #	4
6) Chloroethane	1.72	64	729	0.880	ug/l #	45
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1347	0.959	ug/l	95
10) Methyl Iodide	2.50	142	178	4.577	ug/l	97
11) Tert butyl alcohol	3.01	59	6461	4.202	ug/l #	77
12) 1,1-Dichloroethene	2.37	96	490	0.437	ug/l #	59
13) Acrolein	2.26	56	304	Below Cal	#	78
16) Acetone	2.44	43	466	Below Cal		98
17) Carbon Disulfide	2.57	76	195	1.925	ug/l #	75
20) Methylene Chloride	2.84	84	393	0.254	ug/l	94
30) Chloroform	5.20	83	1092	0.325	ug/l #	69
31) Cyclohexane	5.65	56	4555	2.582	ug/l #	23
36) 1,1-Dichloropropene	5.65	75	15888	9.052	ug/l #	51
38) Carbon Tetrachloride	5.65	117	19831	9.085	ug/l #	18
44) Trichloroethene	7.21	130	78999	53.808	ug/l	97
49) 1,4-Dioxane	7.59	88	20	0.361	ug/l #	1
60) Dibromochloromethane	9.33	129	475	0.252	ug/l #	11
64) Tetrachloroethene	9.33	164	675	0.609	ug/l #	70
76) 1,2,3-Trichloropropane	11.14	75	60728	26.561	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	60728	71.502	ug/l #	8

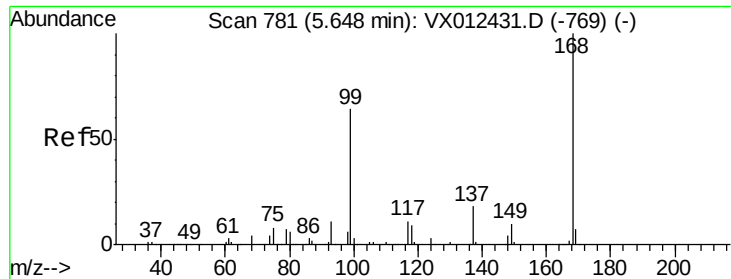
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092019\
Data File : VX012560.D
Acq On : 20 Sep 2019 16:22
Operator : JC/SP
Sample : K4858-27DL 20X
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20190911DL

Quant Time: Sep 21 01:34:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

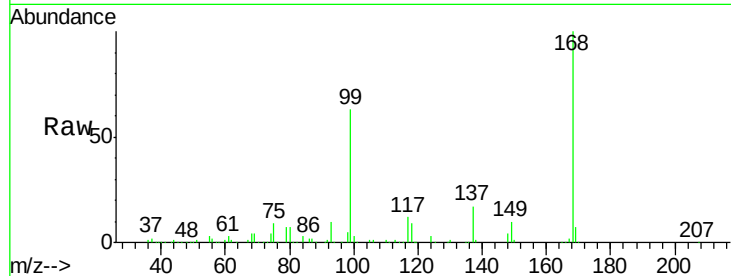
RE132D7-20190911DL

Tot Ion:168 Resp: 178205

Ion Ratio Lower Upper

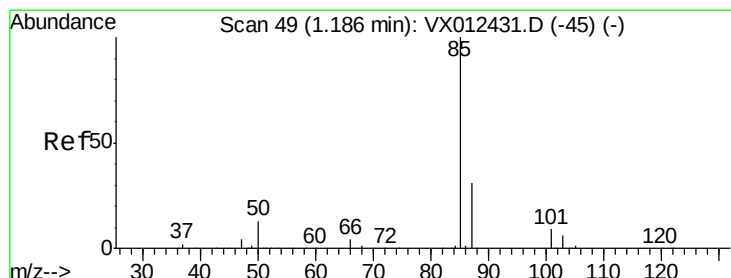
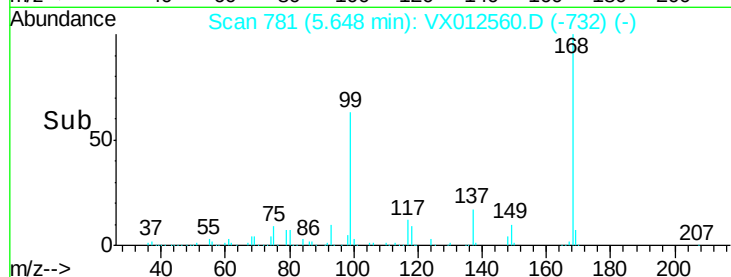
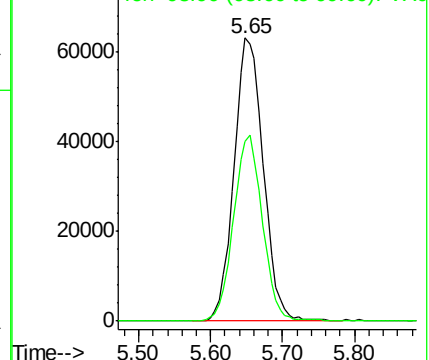
168 100

99 63.3 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: 0.410 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX012560.D

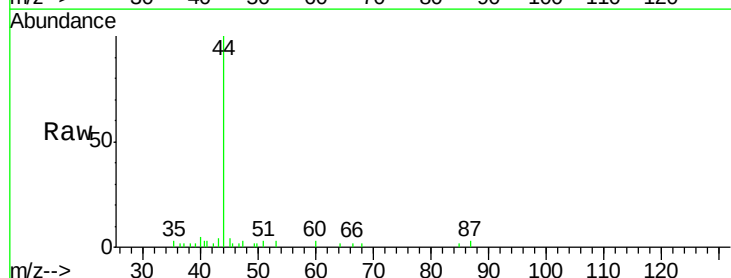
Acq: 20 Sep 2019 16:22

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

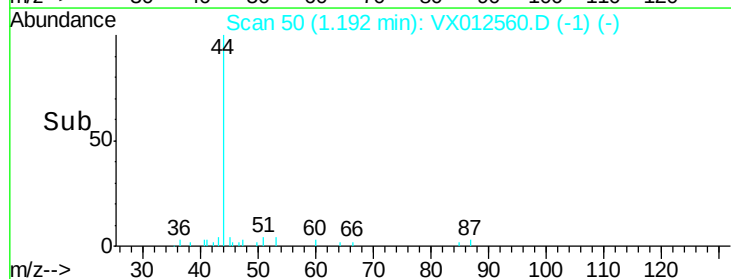
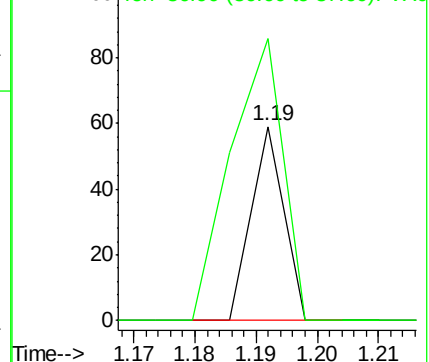
85 100

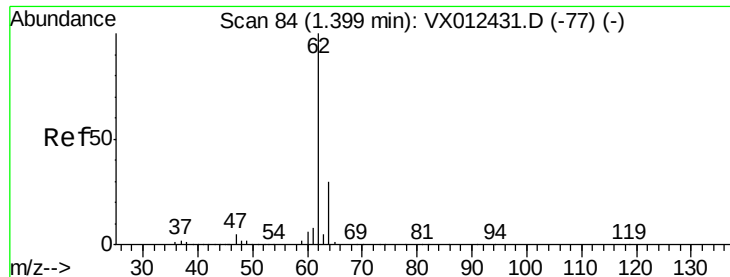
87 145.8 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#4

Vinyl Chloride

Concen: 0.288 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.01 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

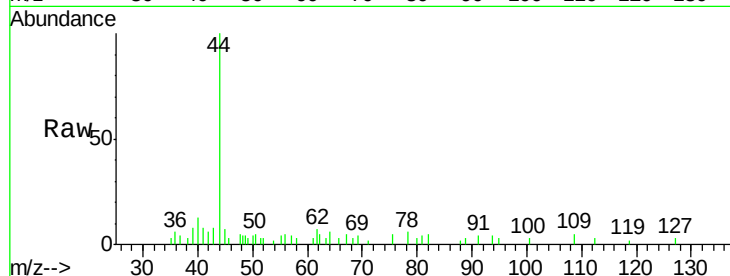
RE132D7-20190911DL

Tot Ion: 62 Resp: 305

Ion Ratio Lower Upper

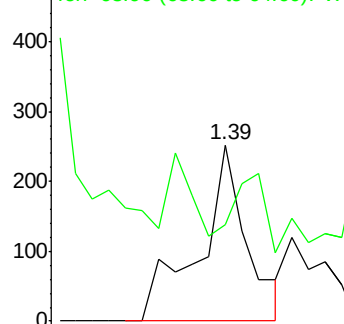
62 100

64 16.7 24.2 36.2#

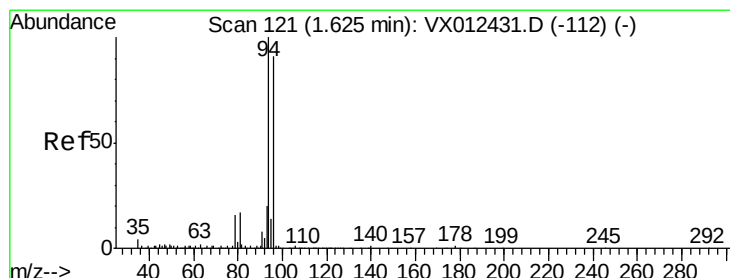
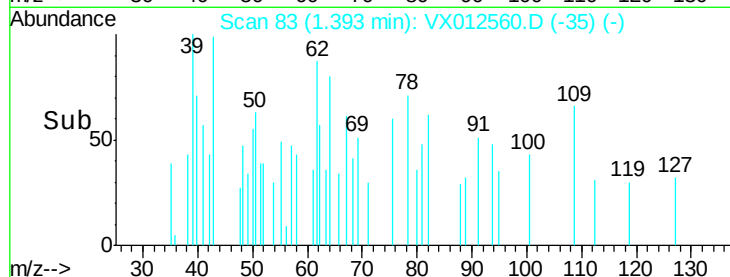


Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->



#5

Bromomethane

Concen: 0.303 ug/l

RT: 1.61 min Scan# 119

Delta R.T. -0.01 min

Lab File: VX012560.D

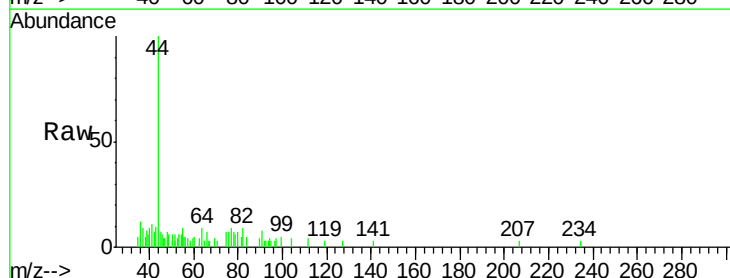
Acq: 20 Sep 2019 16:22

Tgt Ion: 94 Resp: 126

Ion Ratio Lower Upper

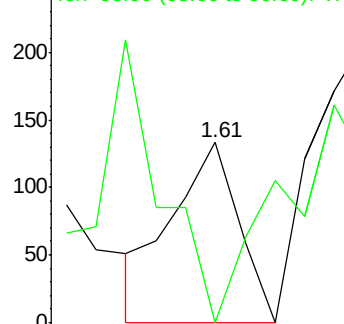
94 100

96 0.0 72.8 109.2#

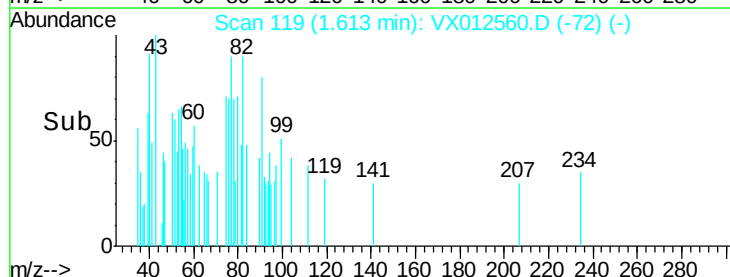


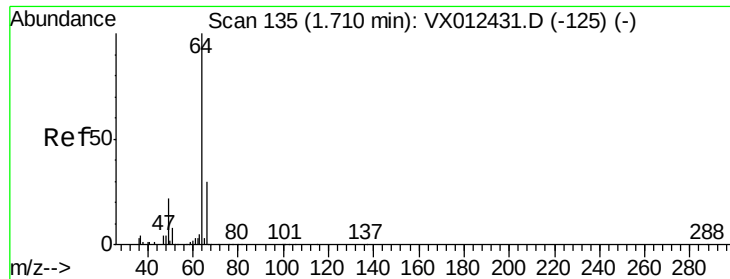
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->





#6

Chloroethane

Concen: 0.880 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

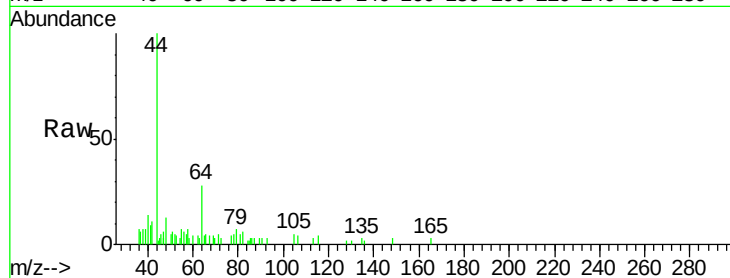
RE132D7-20190911DL

Tot Ion: 64 Resp: 729

Ion Ratio Lower Upper

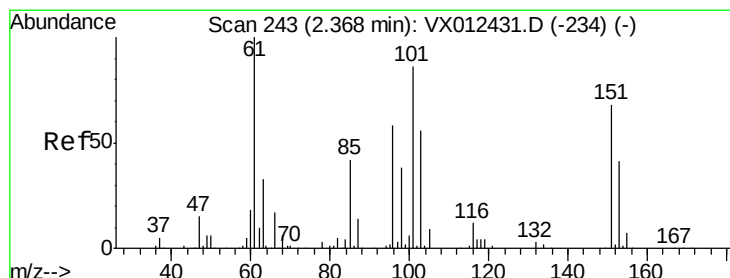
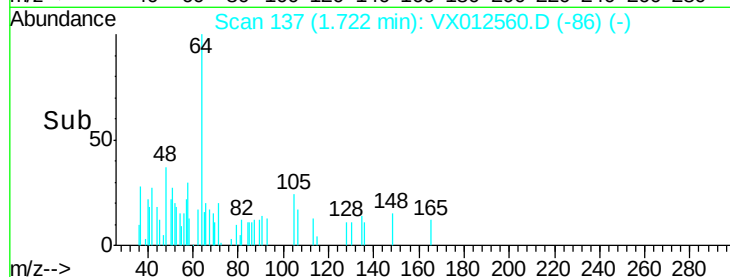
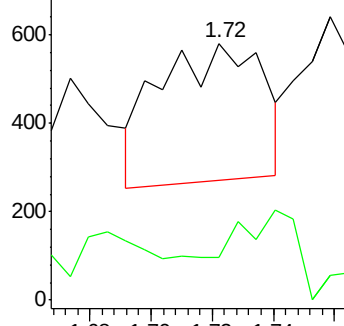
64 100

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



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.959 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

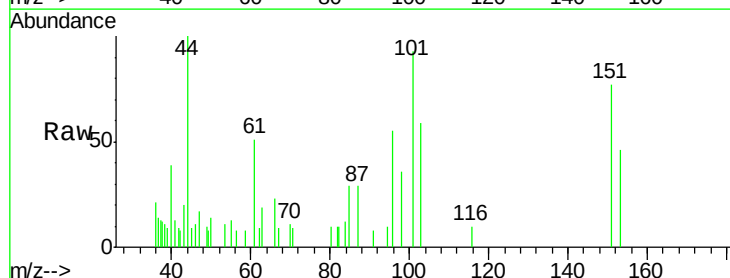
Tgt Ion: 101 Resp: 1347

Ion Ratio Lower Upper

101 100

85 51.9 37.3 55.9

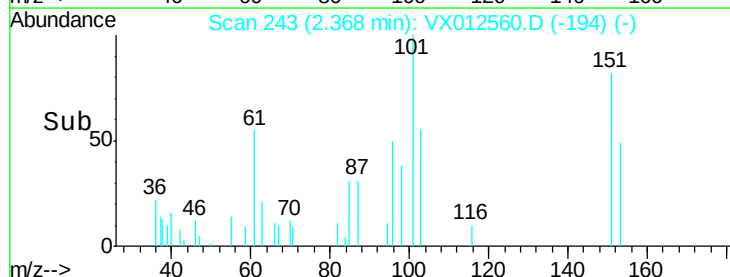
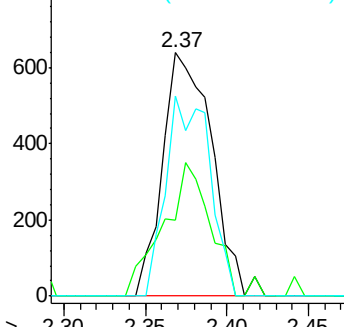
151 73.0 61.0 91.4

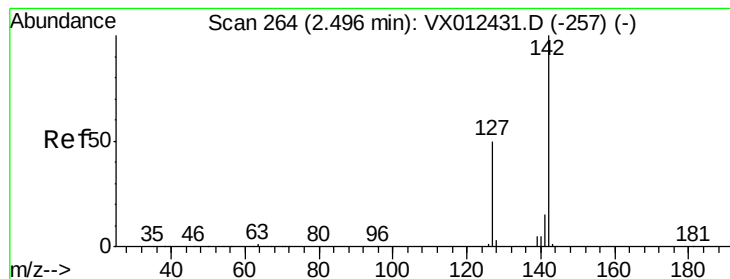


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V





#10

Methvl Iodide

Concen: 4.577 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20190911DL

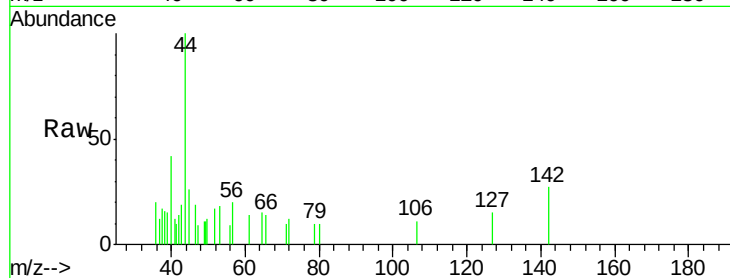
Tot Ion:142 Resp: 178

Ion Ratio Lower Upper

142 100

127 48.9 40.8 61.2

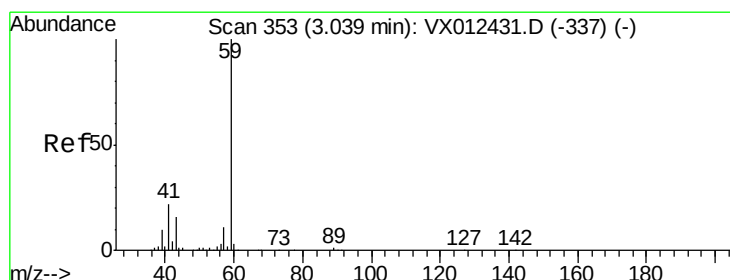
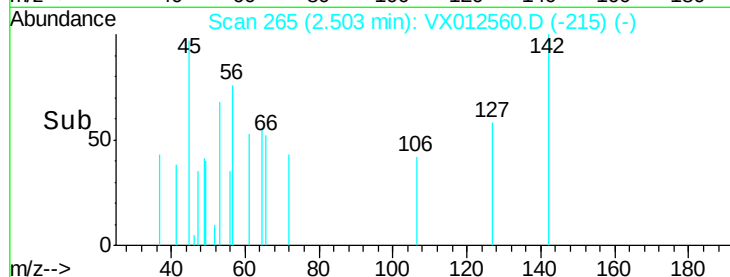
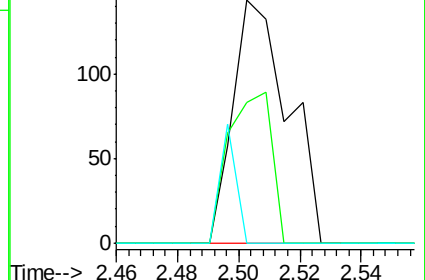
141 14.6 12.1 18.1



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: 4.202 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX012560.D

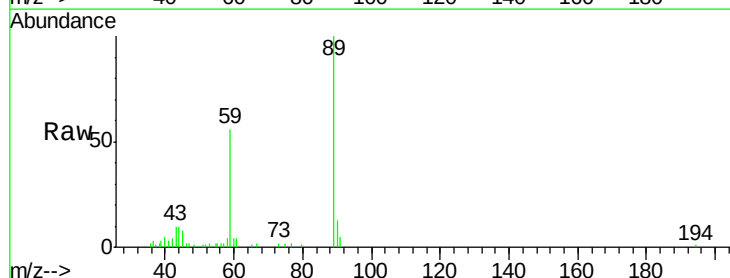
Acq: 20 Sep 2019 16:22

Tgt Ion: 59 Resp: 6461

Ion Ratio Lower Upper

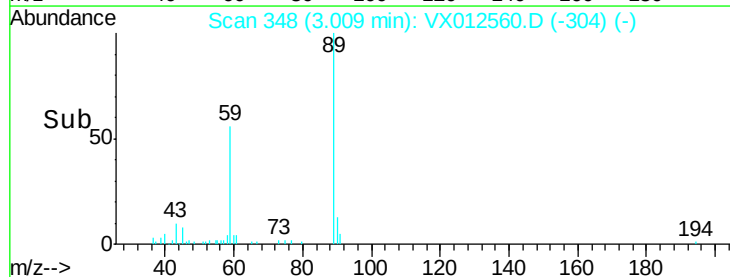
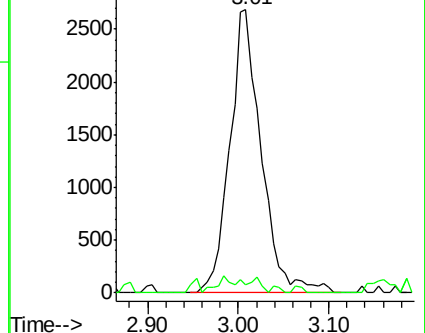
59 100

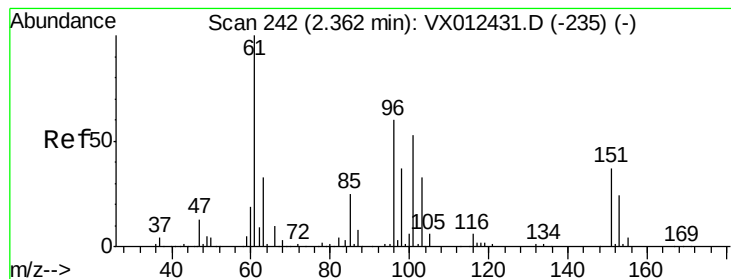
57 1.8 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.437 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20190911DL

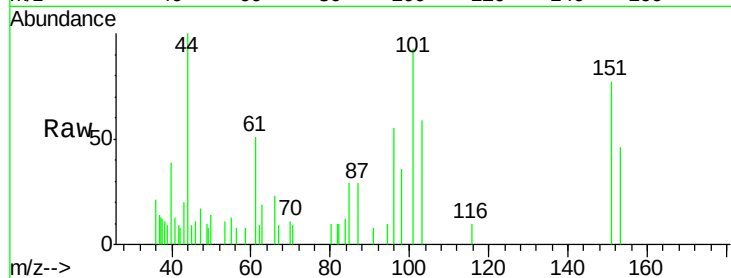
Tot Ion: 96 Resp: 490

Ion Ratio Lower Upper

96 100

61 91.6 133.8 200.6#

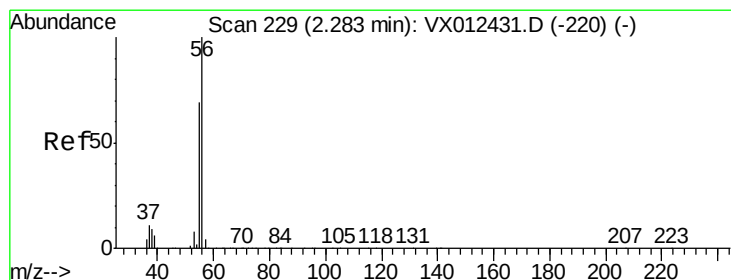
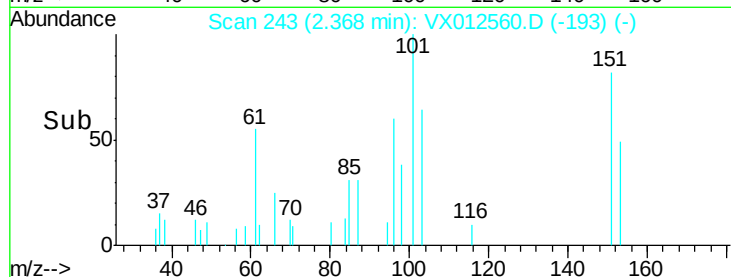
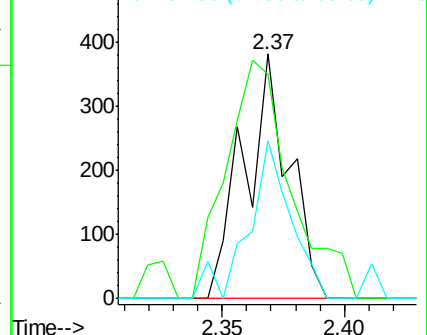
98 64.3 49.9 74.9



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



#13

Acrolein

Concen: Below Cal

RT: 2.26 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX012560.D

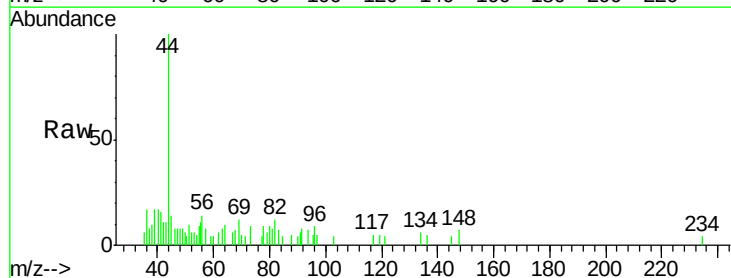
Acq: 20 Sep 2019 16:22

Tgt Ion: 56 Resp: 304

Ion Ratio Lower Upper

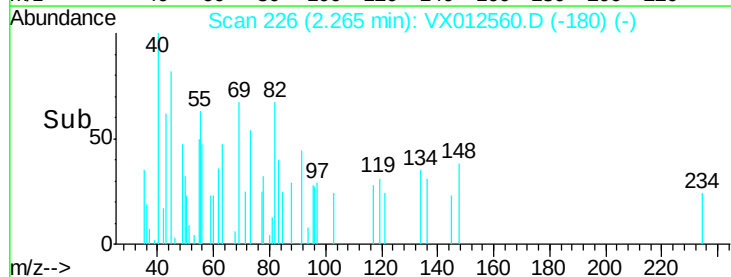
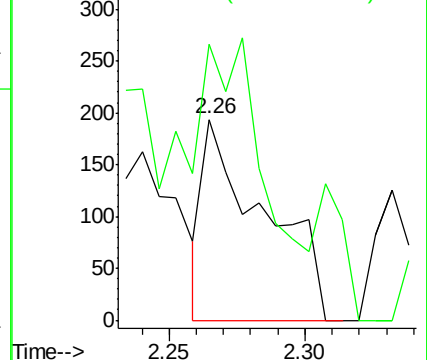
56 100

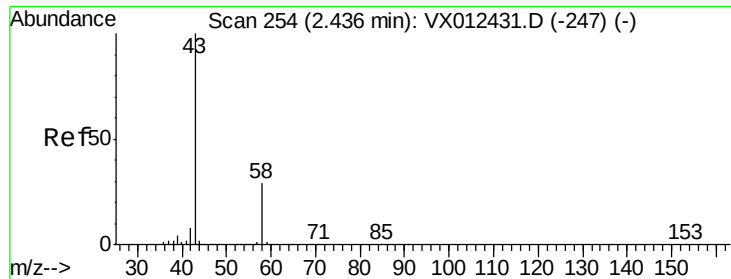
55 87.5 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

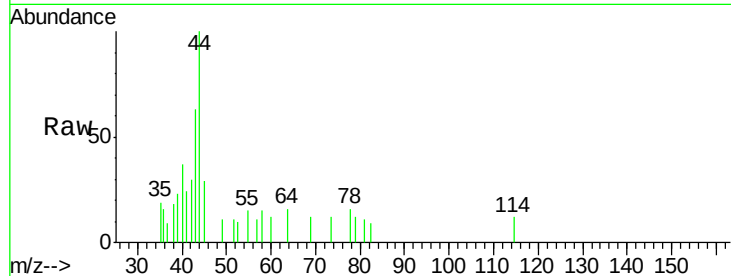
RE132D7-20190911DL

Tot Ion: 43 Resp: 466

Ion Ratio Lower Upper

43 100

58 30.4 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

300

200

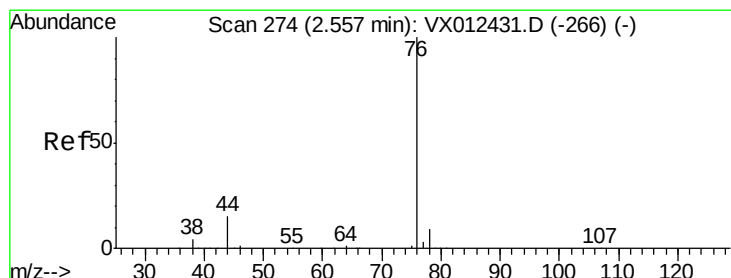
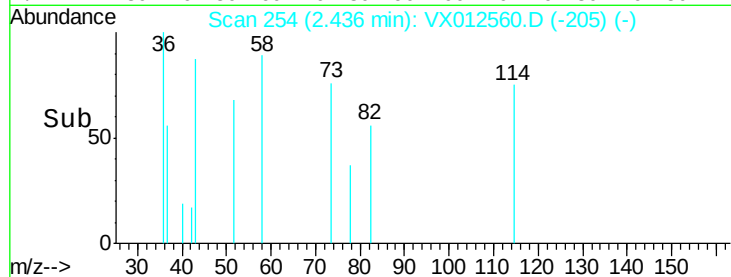
100

0

2.40

2.45

Time-->



#17

Carbon Disulfide

Concen: 1.925 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX012560.D

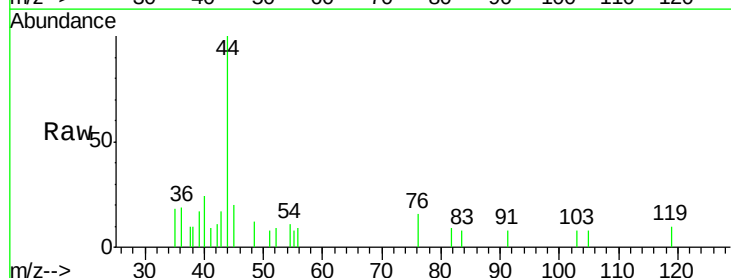
Acq: 20 Sep 2019 16:22

Tgt Ion: 76 Resp: 195

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

2.57

120

100

80

60

40

20

0

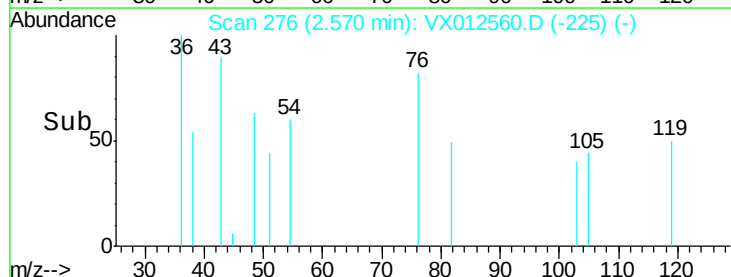
2.52

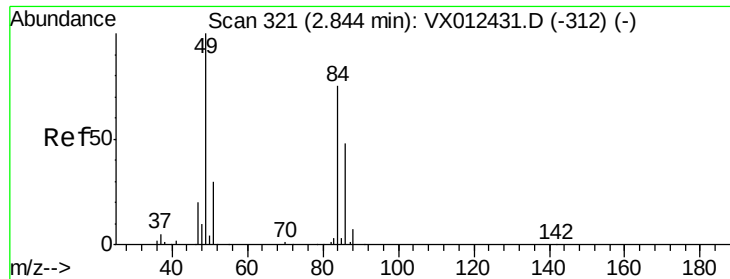
2.54

2.56

2.58

Time-->

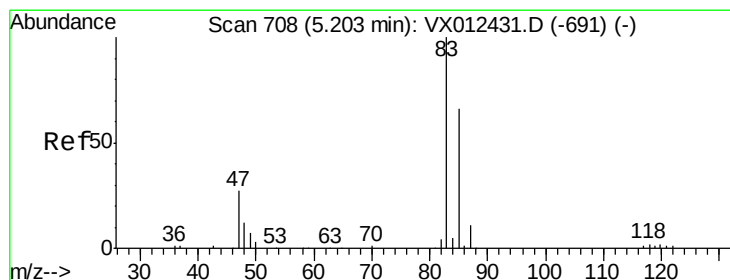
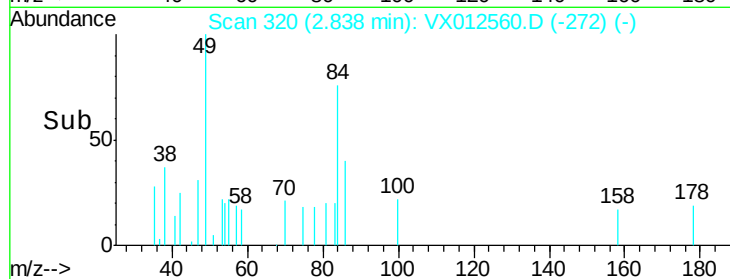
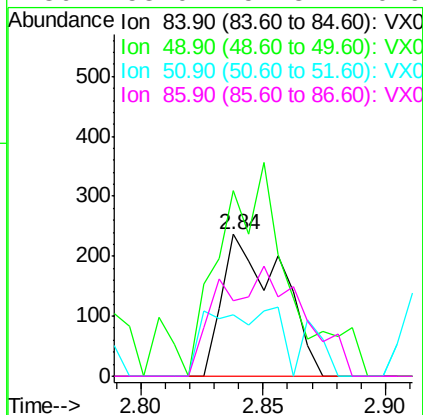
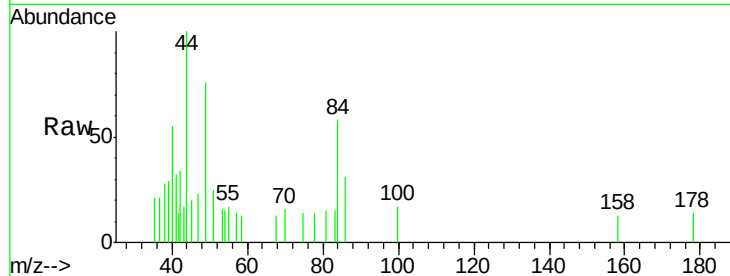




#20
Methylene Chloride
Concen: 0.254 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX012560.D
Acq: 20 Sep 2019 16:22

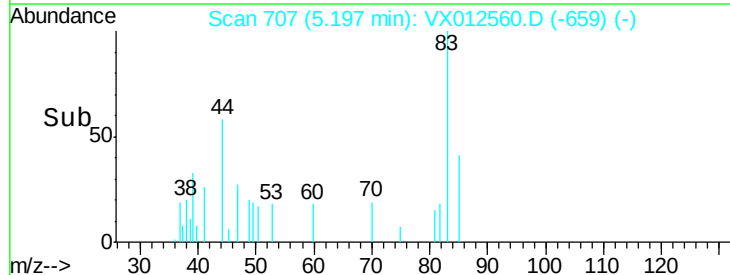
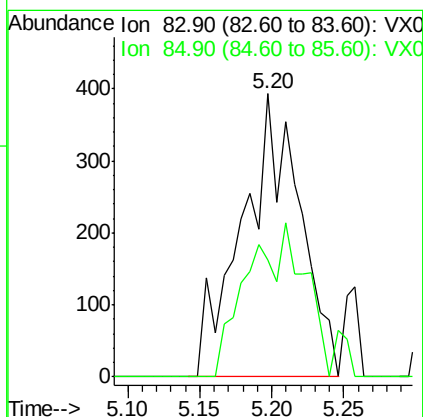
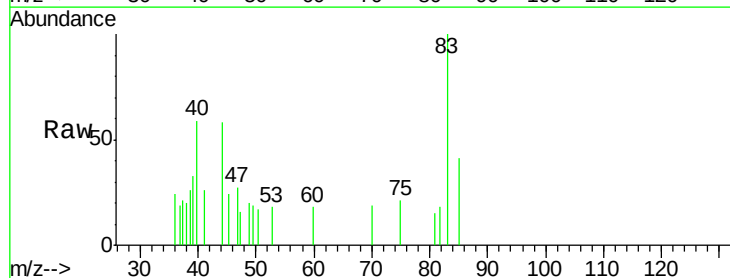
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20190911DL

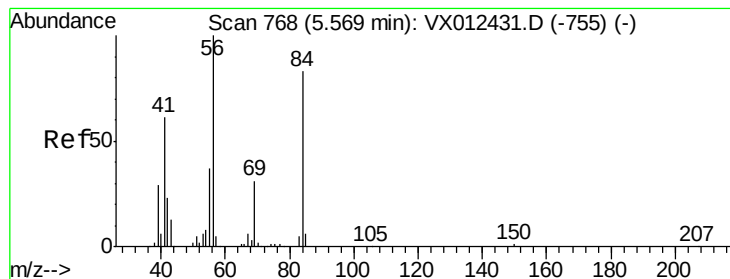
Tot Ion:	84	Resp:	393
Ion	Ratio	Lower	Upper
84	100		
49	130.9	106.8	160.2
51	43.2	32.3	48.5
86	53.0	51.3	76.9



#30
Chloroform
Concen: 0.325 ug/l
RT: 5.20 min Scan# 707
Delta R.T. -0.01 min
Lab File: VX012560.D
Acq: 20 Sep 2019 16:22

Tgt Ion:	83	Resp:	1092
Ion	Ratio	Lower	Upper
83	100		
85	41.5	53.0	79.4#





#31

Cyclohexane

Concen: 2.582 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20190911DL

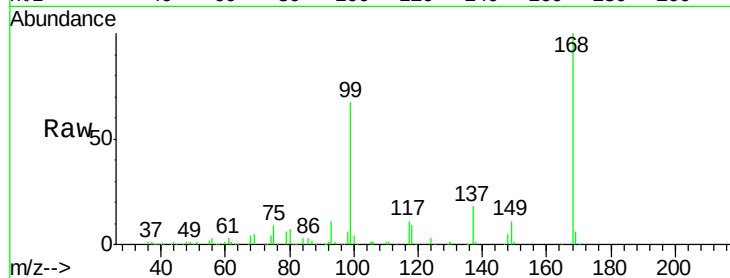
Tot Ion: 56 Resp: 4555

Ion Ratio Lower Upper

56 100

69 171.6 25.0 37.6#

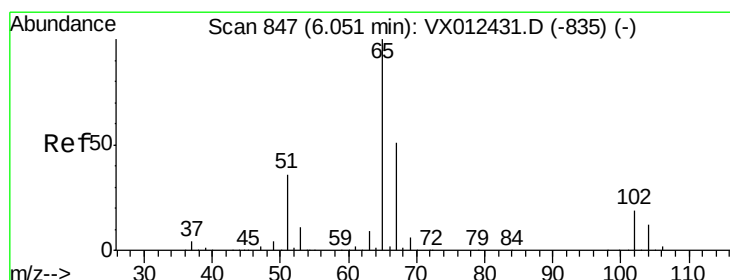
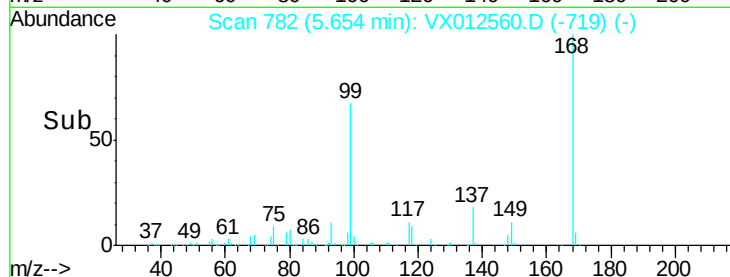
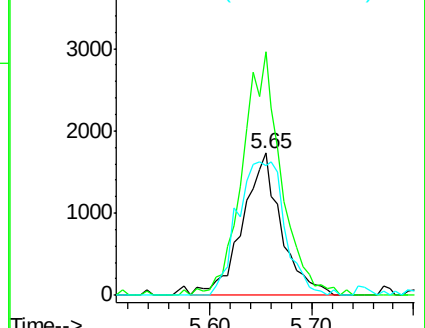
84 91.6 66.4 99.6



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: 47.443 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012560.D

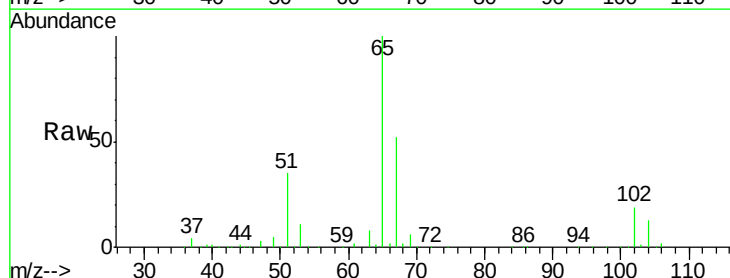
Acq: 20 Sep 2019 16:22

Tgt Ion: 65 Resp: 121172

Ion Ratio Lower Upper

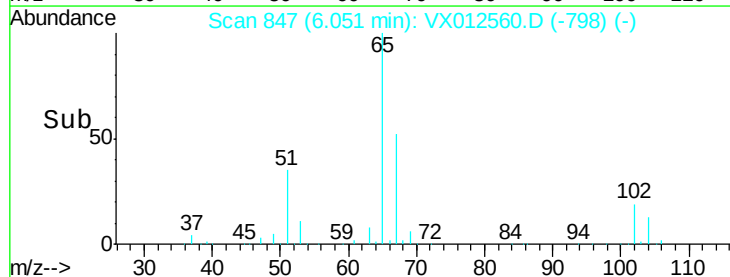
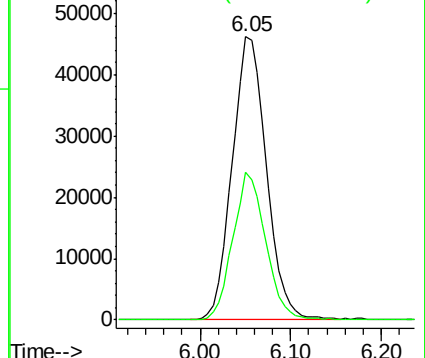
65 100

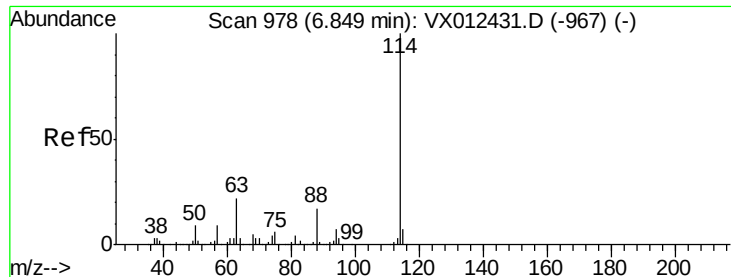
67 50.1 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

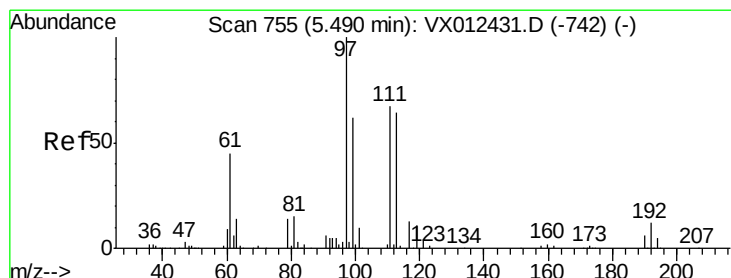
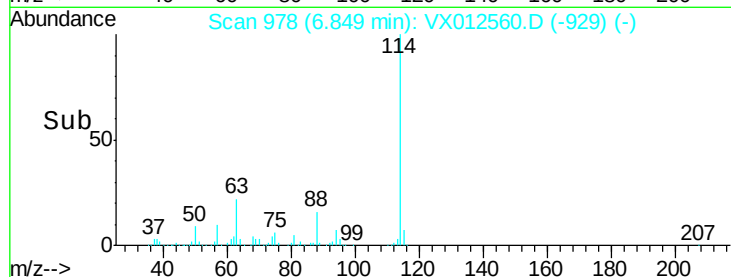
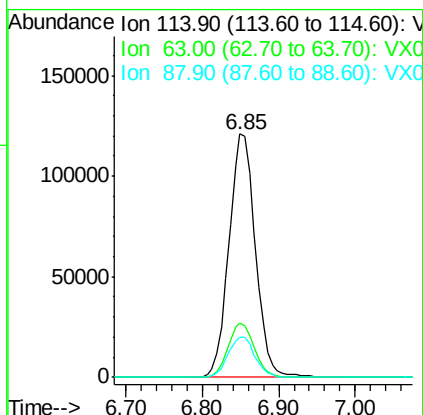
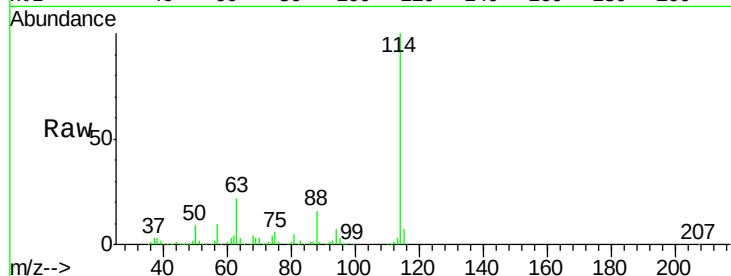




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012560.D
 Acq: 20 Sep 2019 16:22

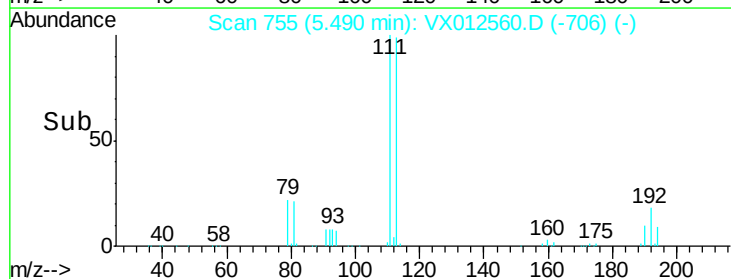
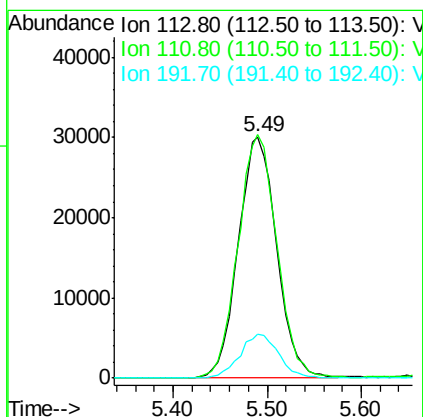
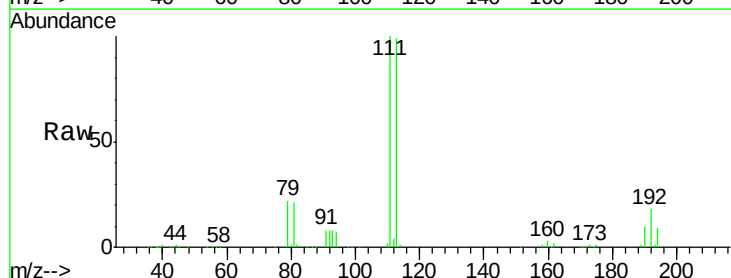
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D7-20190911DL

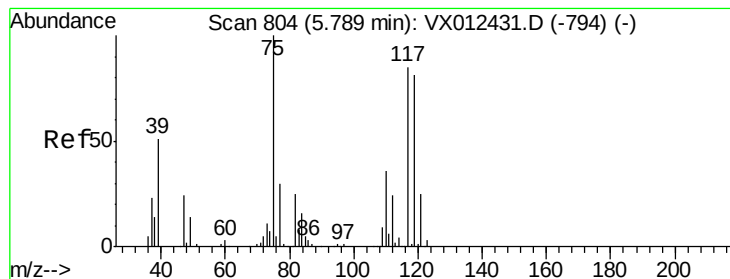
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	43.2
88	16.3	0.0	33.2



#35
 Dibromofluoromethane
 Concen: 48.828 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012560.D
 Acq: 20 Sep 2019 16:22

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	83.4	125.2
192	18.3	14.4	21.6





#36

1,1-Dichloropropene

Concen: 9.052 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20190911DL

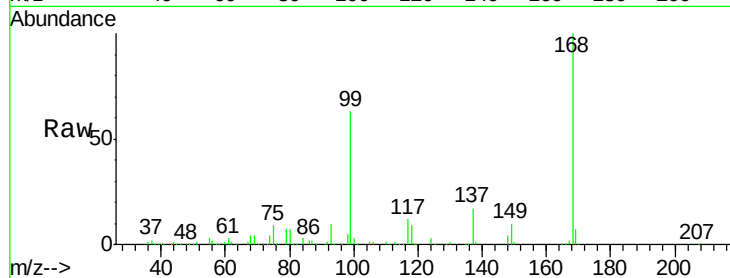
Tot Ion: 75 Resp: 15888

Ion Ratio Lower Upper

75 100

110 9.3 16.7 50.0#

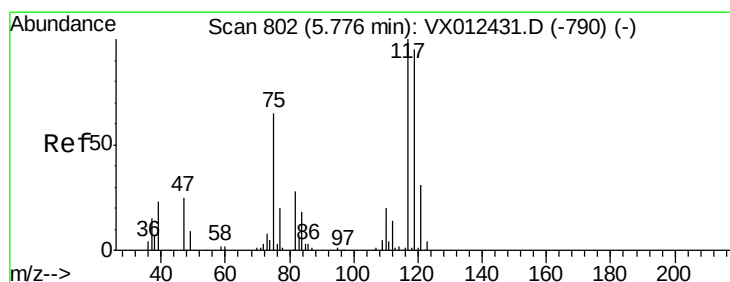
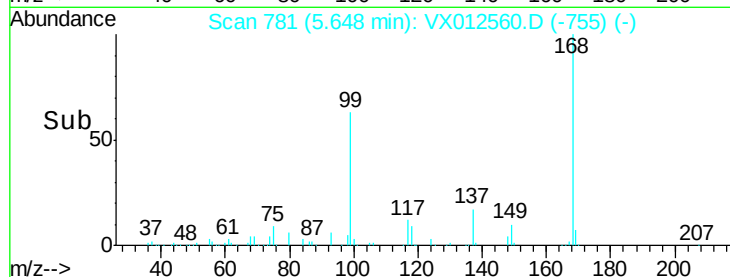
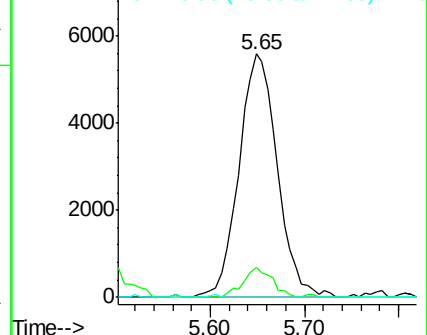
77 0.0 24.2 36.2#



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: 9.085 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

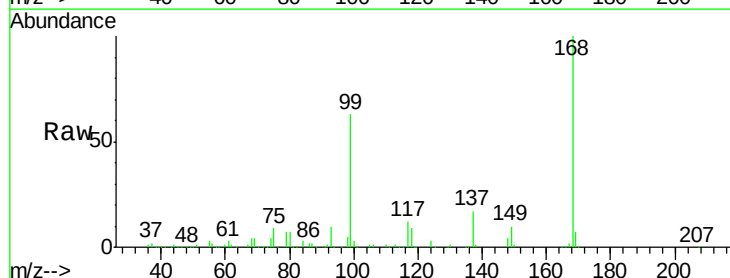
Tgt Ion: 117 Resp: 19831

Ion Ratio Lower Upper

117 100

119 7.3 75.7 113.5#

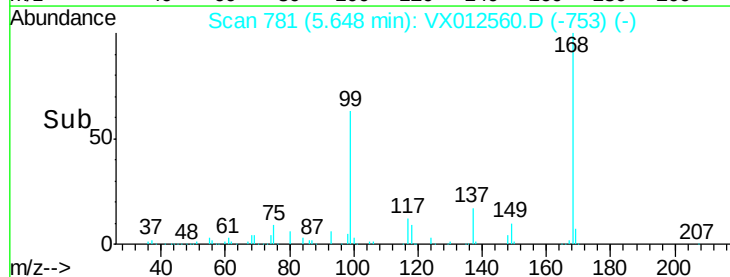
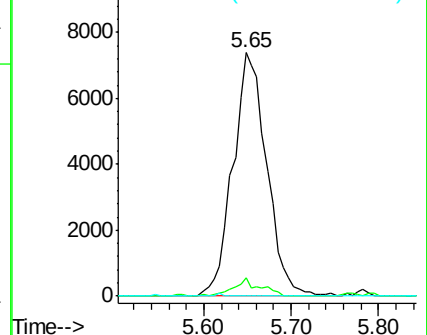
121 0.0 24.2 36.4#

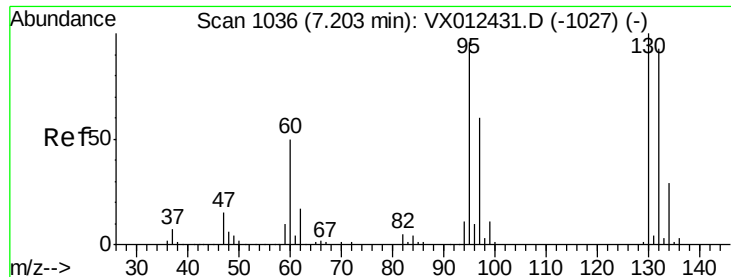


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 53.808 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

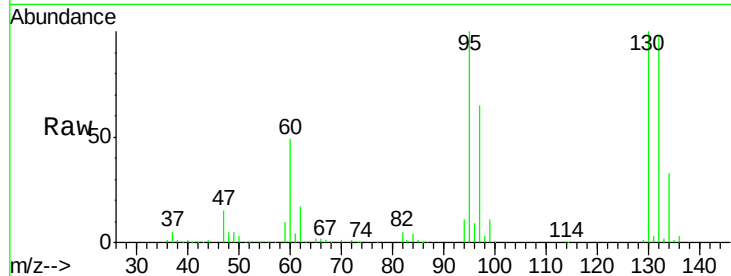
RE132D7-20190911DL

Tot Ion:130 Resp: 78999

Ion Ratio Lower Upper

130 100

95 99.8 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

40000

30000

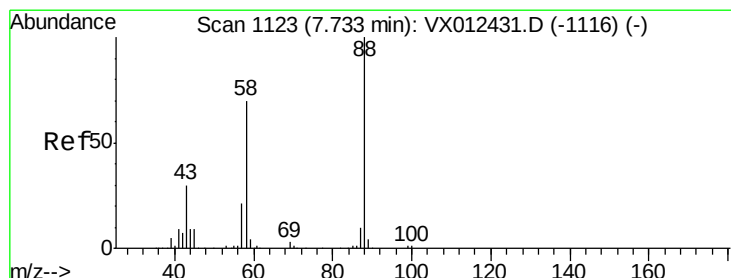
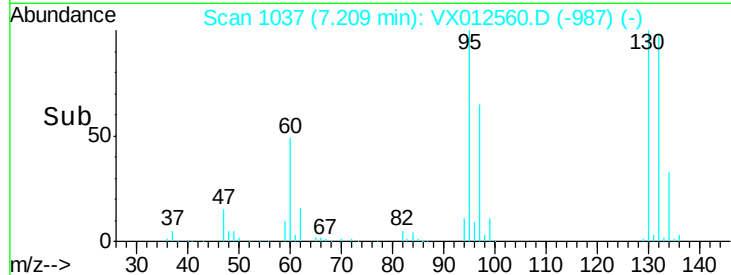
20000

10000

0

Time-->

7.10 7.20 7.30



#49

1,4-Dioxane

Concen: 0.361 ug/l

RT: 7.59 min Scan# 1100

Delta R.T. -0.14 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

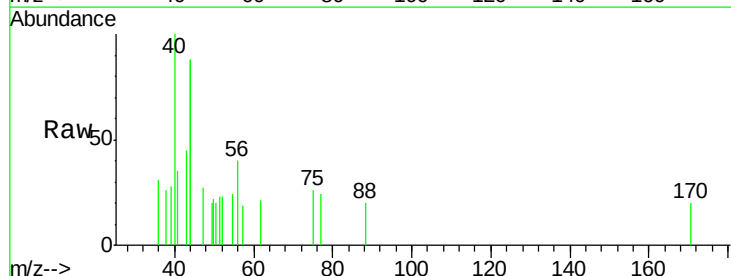
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 995.0 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

150

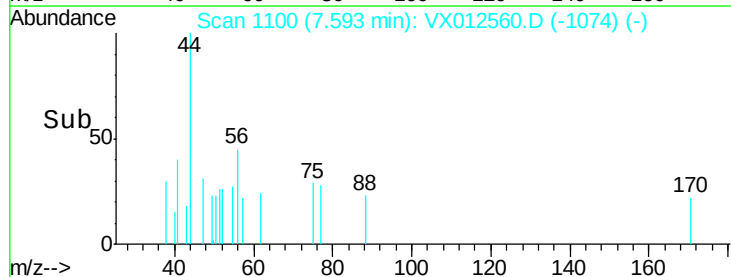
100

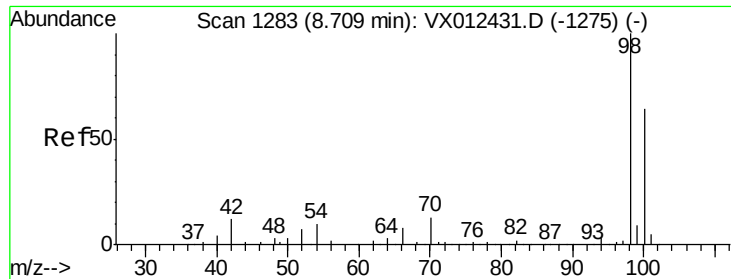
50

0

Time-->

7.57 7.58 7.59 7.60 7.61





#50

Toluene-d8

Concen: 51.305 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

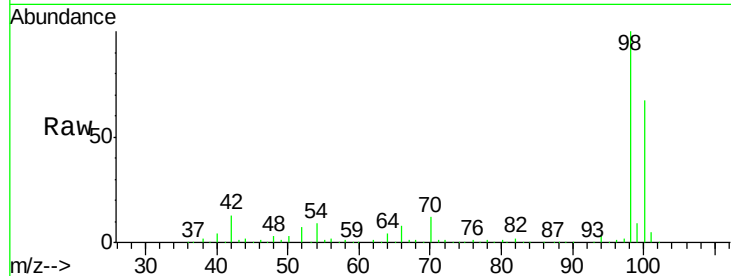
RE132D7-20190911DL

Tot Ion: 98 Resp: 331938

Ion Ratio Lower Upper

98 100

100 66.7 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

200000

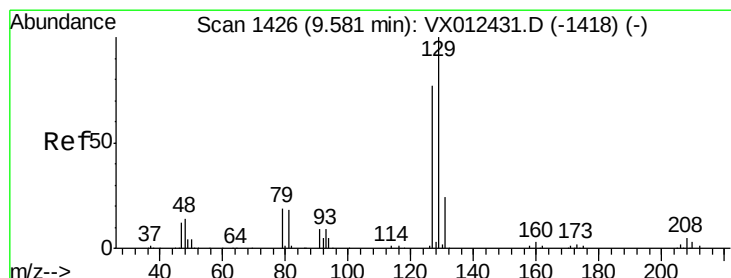
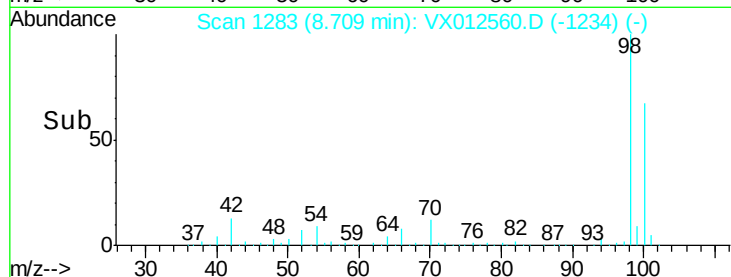
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#60

Dibromochloromethane

Concen: 0.252 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012560.D

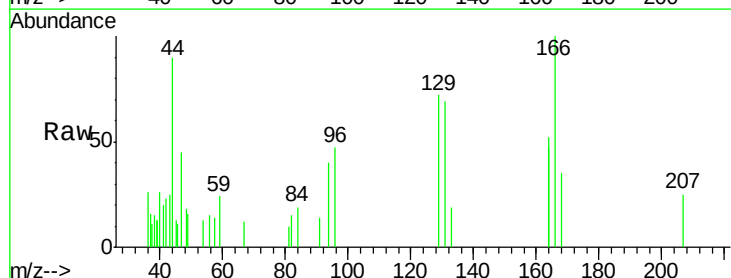
Acq: 20 Sep 2019 16:22

Tgt Ion: 129 Resp: 475

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

400

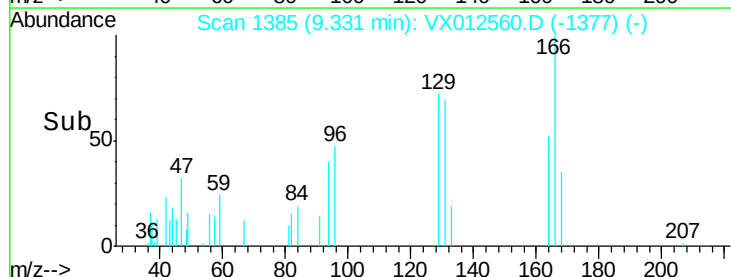
300

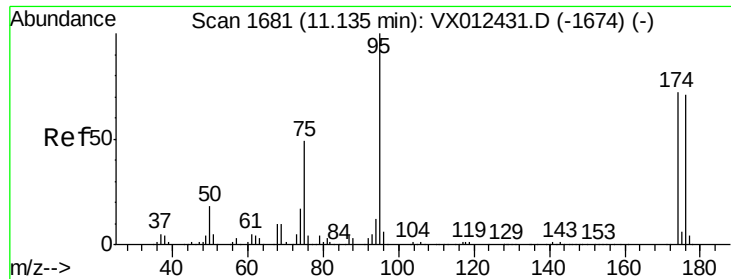
200

100

0

Time--> 9.30 9.35

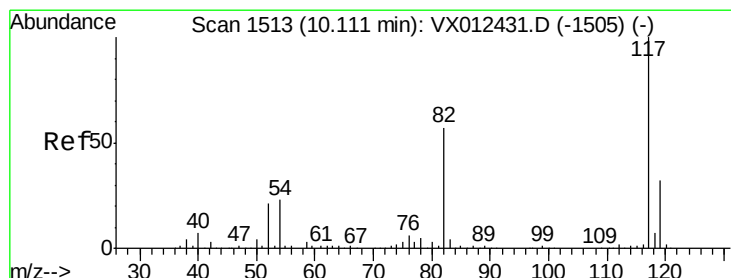
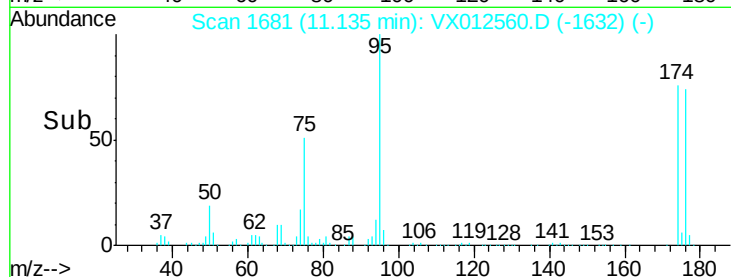
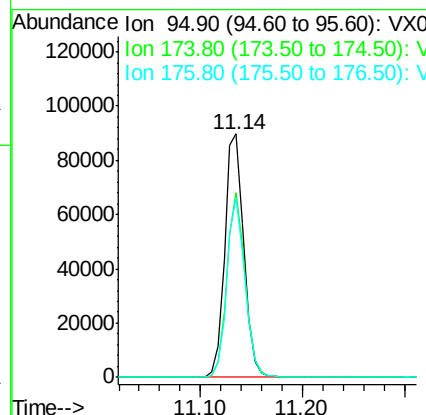
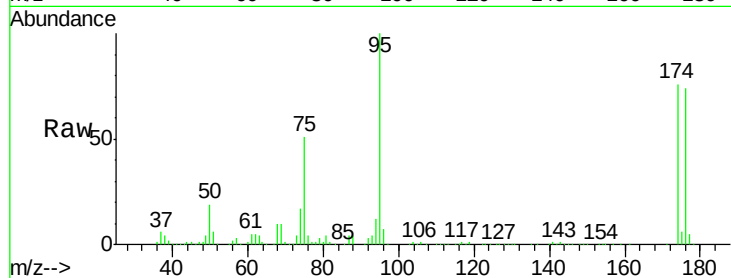




#62
4-Bromofluorobenzene
Concen: 43.901 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012560.D
Acq: 20 Sep 2019 16:22

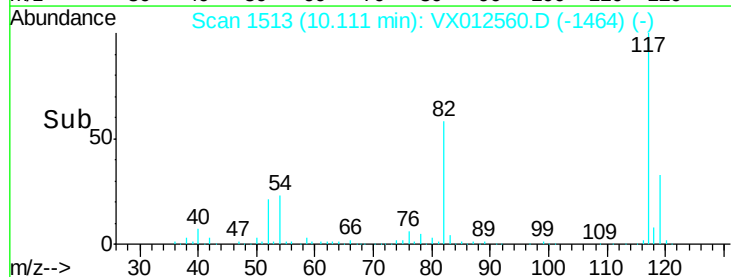
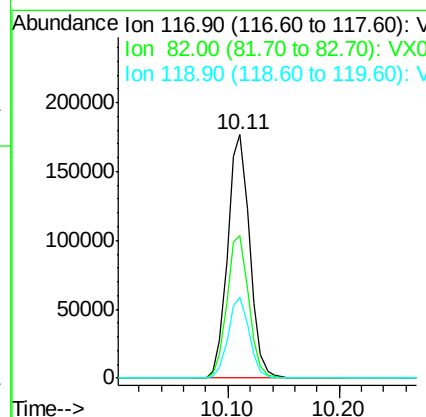
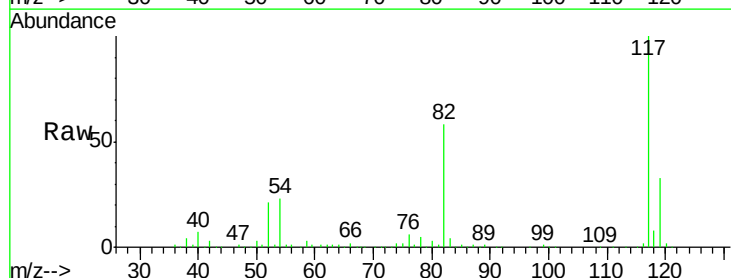
Instrument :
MSVOA_X
ClientSampleId :
RE132D7-20190911DL

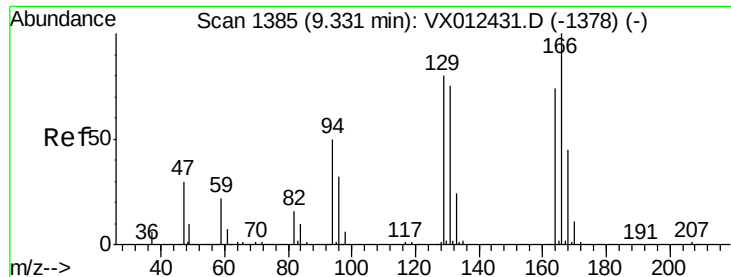
Tot Ion: 95 Resp: 117933
Ion Ratio Lower Upper
95 100
174 72.0 0.0 140.0
176 69.8 0.0 135.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012560.D
Acq: 20 Sep 2019 16:22

Tgt Ion: 117 Resp: 241900
Ion Ratio Lower Upper
117 100
82 58.4 45.9 68.9
119 33.2 25.3 37.9





#64

Tetrachloroethene

Concen: 0.609 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

RE132D7-20190911DL

Tot Ion:164 Resp: 675

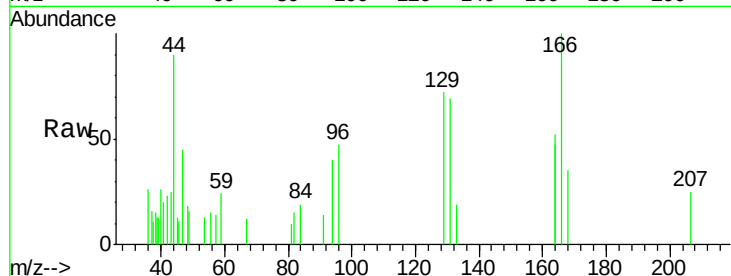
Ion Ratio Lower Upper

164 100

166 101.2 107.8 161.6#

129 73.3 86.2 129.2#

131 69.6 80.4 120.6#

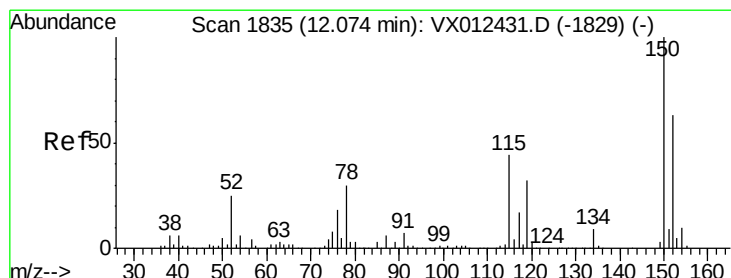
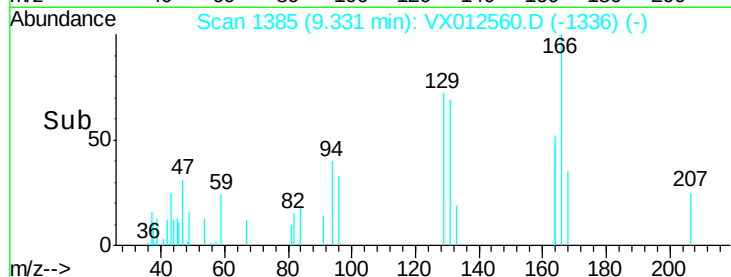
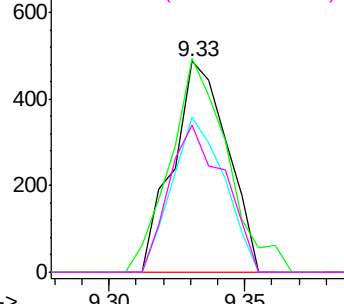


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX012560.D

Acq: 20 Sep 2019 16:22

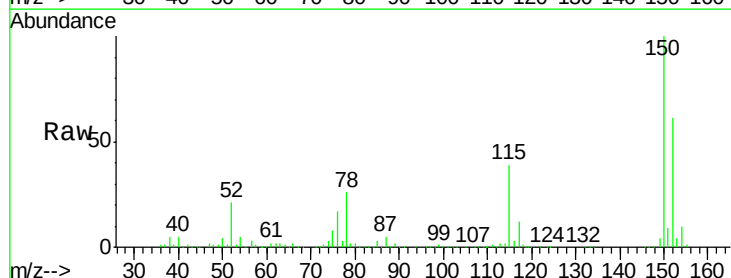
Tgt Ion:152 Resp: 99532

Ion Ratio Lower Upper

152 100

115 63.8 44.1 132.3

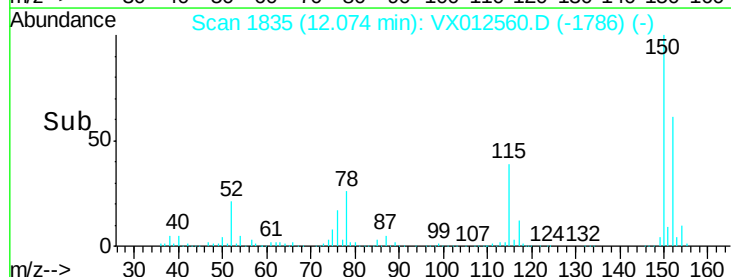
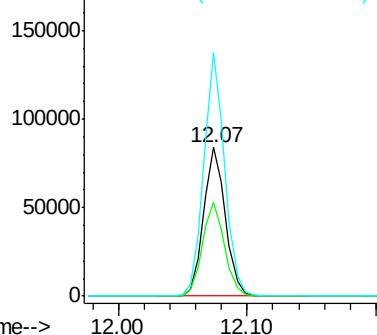
150 157.5 0.0 343.8

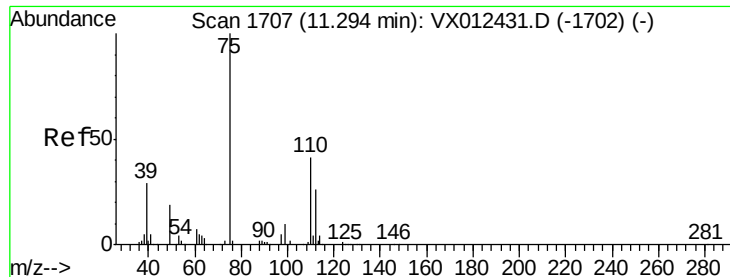


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.561 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

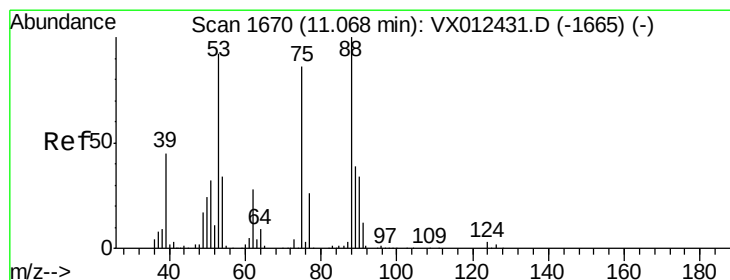
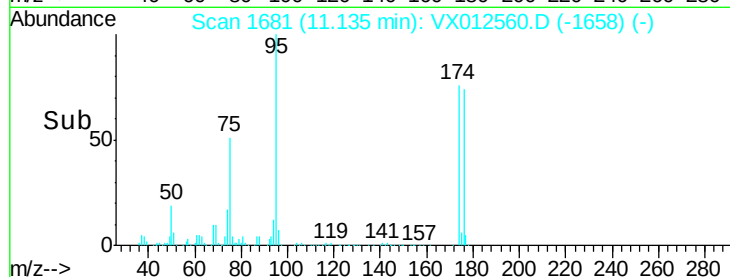
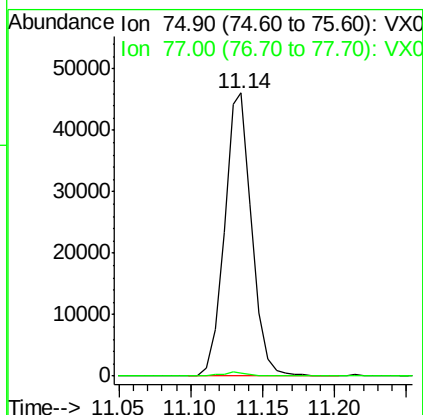
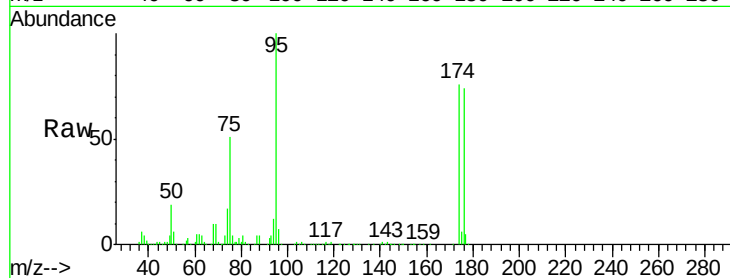
RE132D7-20190911DL

Tot Ion: 75 Resp: 60728

Ion Ratio Lower Upper

75 100

77 1.4 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.502 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012560.D

Acq: 20 Sep 2019 16:22

Tgt Ion: 75 Resp: 60728

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.0 36.3 54.5#

