

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012483.D
 Acq On : 18 Sep 2019 18:54
 Operator : JC/SP
 Sample : K4858-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE135D1-20190910

Quant Time: Sep 19 06:04:08 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	189215	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	295539	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	98576	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	126915	46.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.60%	
35) Dibromofluoromethane	5.49	113	88816	49.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.30%	
50) Toluene-d8	8.71	98	334777	50.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.14	95	116392	42.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.68%	

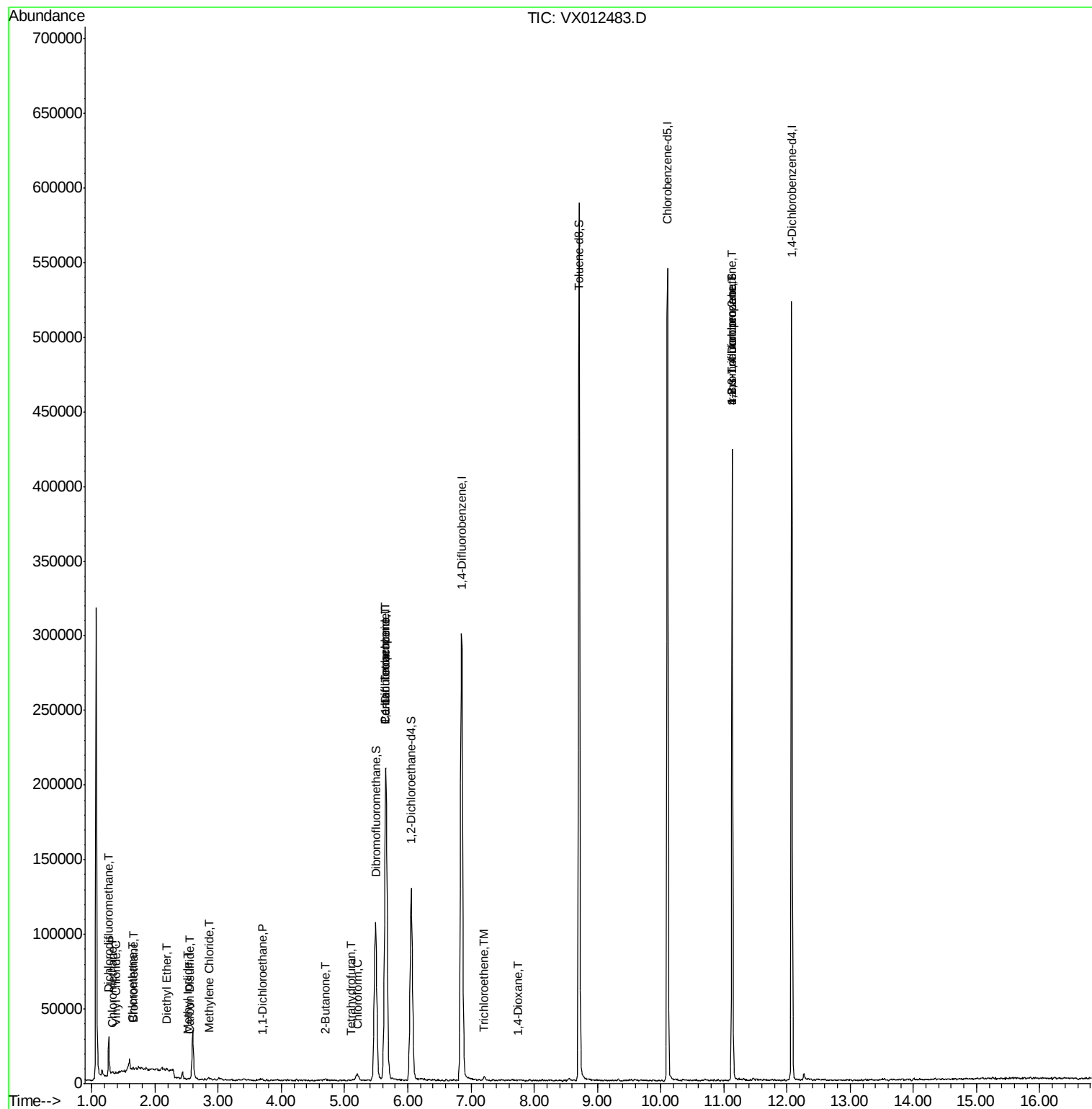
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.27	85	59	0.438	ug/l #	43
3) Chloromethane	1.32	50	841	0.808	ug/l #	75
4) Vinyl Chloride	1.39	62	305	0.271	ug/l #	1
5) Bromomethane	1.65	94	476	1.078	ug/l #	19
6) Chloroethane	1.64	64	302	0.343	ug/l #	63
8) Diethyl Ether	2.19	74	230	0.247	ug/l	70
10) Methyl Iodide	2.51	142	127	4.533	ug/l #	26
11) Tert butyl alcohol	3.03	59	1850	Below Cal	#	88
13) Acrolein	2.34	56	64	Below Cal	#	1
16) Acetone	2.44	43	4781	Below Cal		98
17) Carbon Disulfide	2.55	76	121	1.876	ug/l #	75
20) Methylene Chloride	2.85	84	697	0.425	ug/l #	79
24) 1,1-Dichloroethane	3.69	63	777	0.250	ug/l #	67
25) 2-Butanone	4.69	43	411	0.218	ug/l	91
29) Tetrahydrofuran	5.11	42	330	0.318	ug/l #	51
30) Chloroform	5.20	83	4882	1.370	ug/l	94
36) 1,1-Dichloropropene	5.65	75	15554	8.660	ug/l #	53
38) Carbon Tetrachloride	5.65	117	20502	9.178	ug/l #	16
44) Trichloroethene	7.20	130	686	0.457	ug/l	62
49) 1,4-Dioxane	7.73	88	19	0.335	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	60578	26.753	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	60578	71.994	ug/l #	8

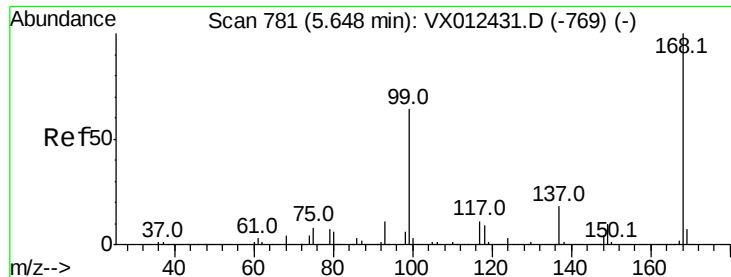
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 782

Delta R.T. 0.01 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

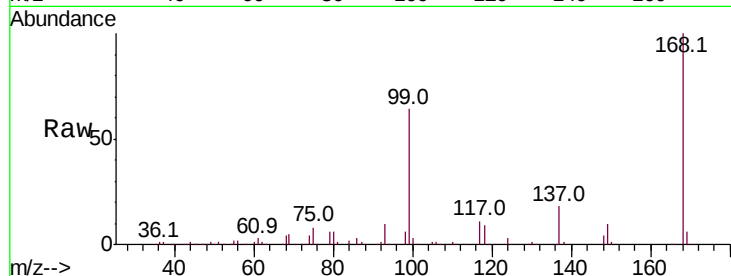
RE135D1-20190910

Tot Ion:168 Resp: 189215

Ion Ratio Lower Upper

168 100

99 64.0 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

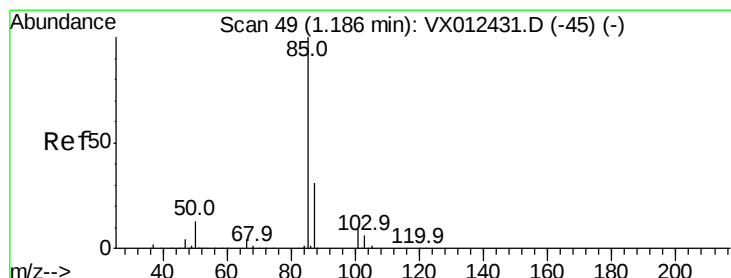
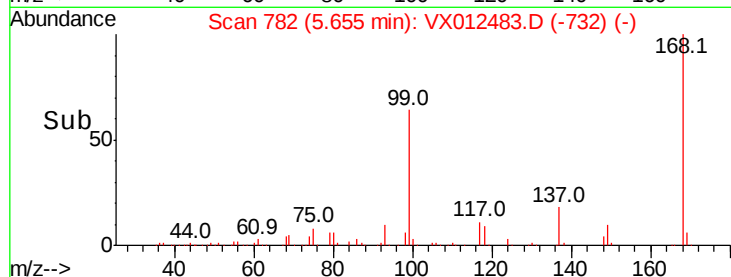
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.438 ug/l

RT: 1.27 min Scan# 62

Delta R.T. 0.08 min

Lab File: VX012483.D

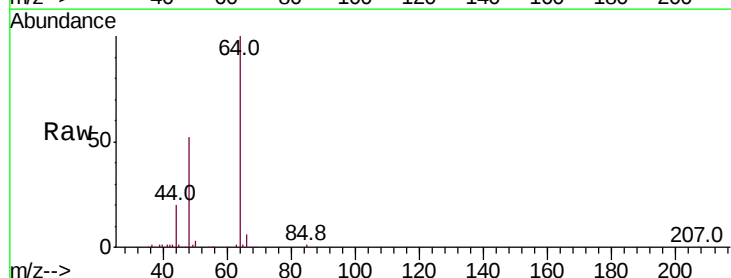
Acq: 18 Sep 2019 18:54

Tgt Ion: 85 Resp: 59

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

80

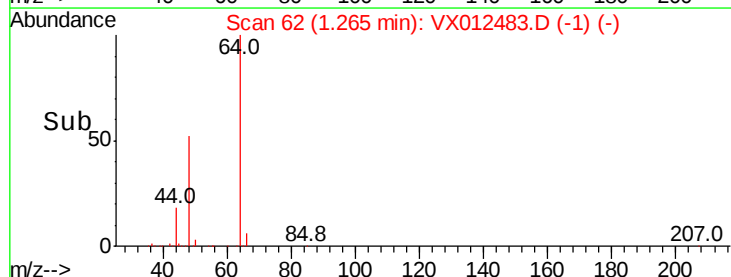
60

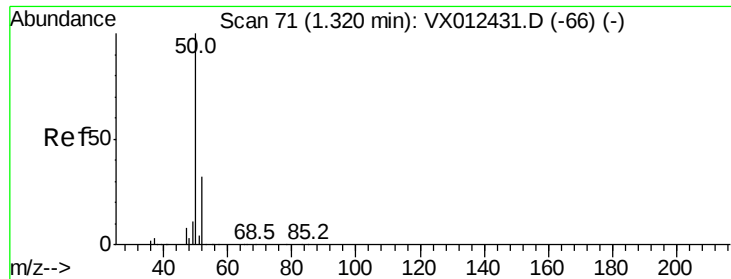
40

20

0

Time--> 1.24 1.26 1.28





#3

Chloromethane

Concen: 0.808 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

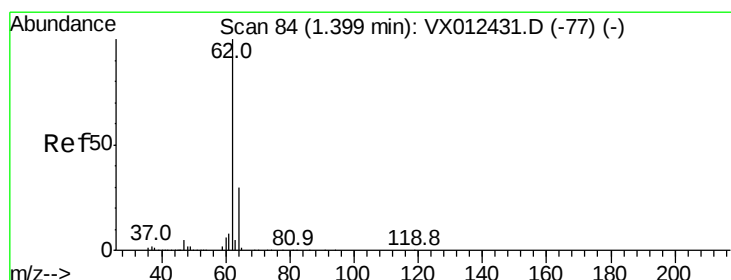
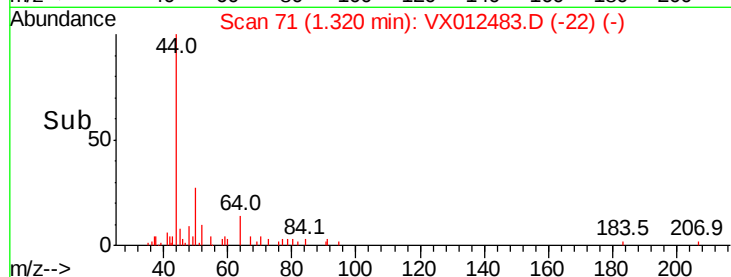
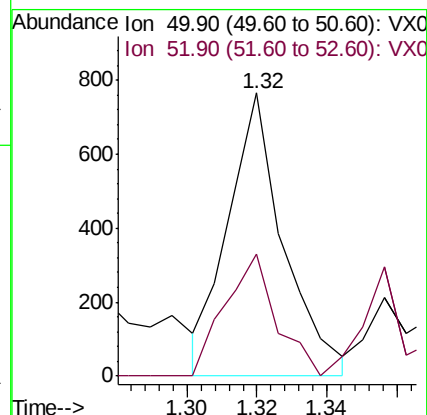
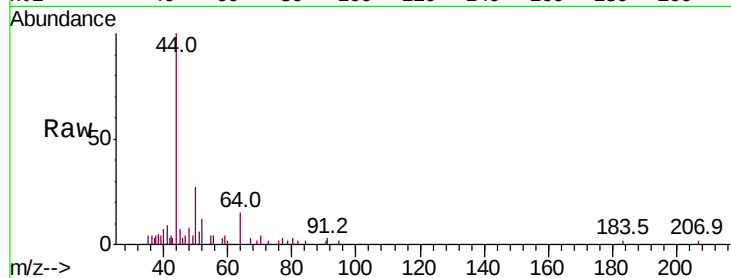
RE135D1-20190910

Tot Ion: 50 Resp: 841

Ion Ratio Lower Upper

50 100

52 46.2 25.7 38.5#



#4

Vinyl Chloride

Concen: 0.271 ug/l

RT: 1.39 min Scan# 82

Delta R.T. -0.01 min

Lab File: VX012483.D

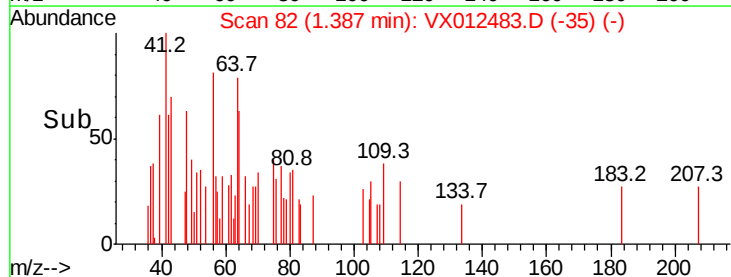
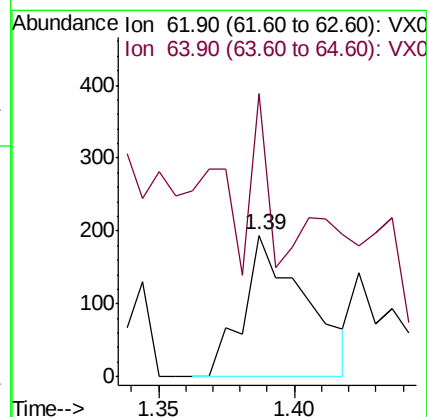
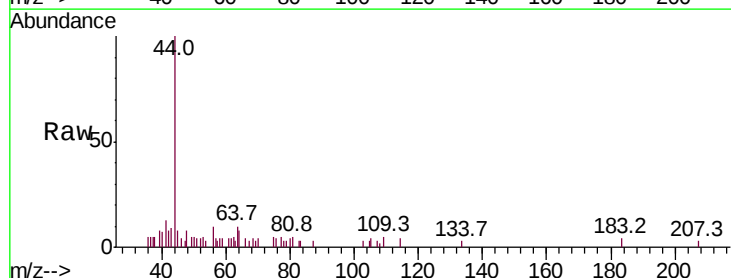
Acq: 18 Sep 2019 18:54

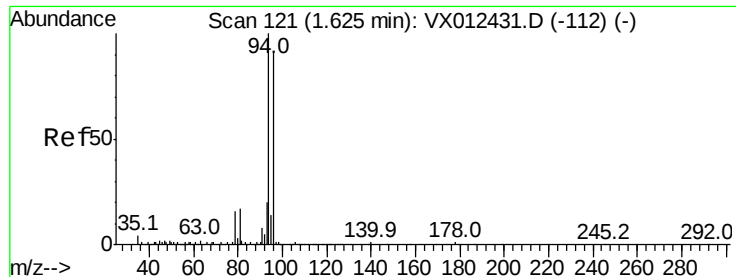
Tgt Ion: 62 Resp: 305

Ion Ratio Lower Upper

62 100

64 99.0 24.2 36.2#





#5

Bromomethane

Concen: 1.078 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

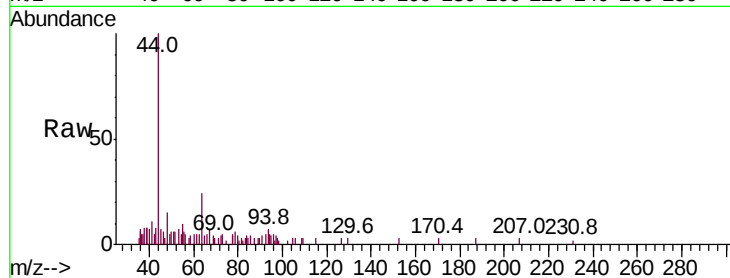
RE135D1-20190910

Tot Ion: 94 Resp: 476

Ion Ratio Lower Upper

94 100

96 14.3 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1.60

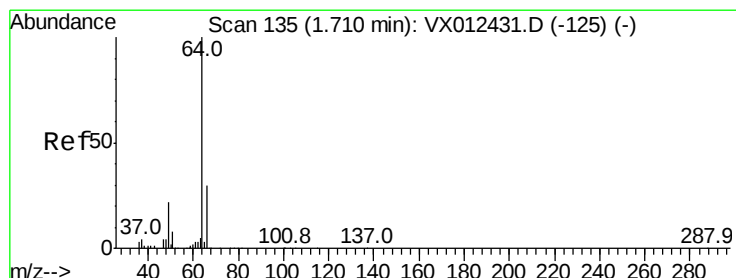
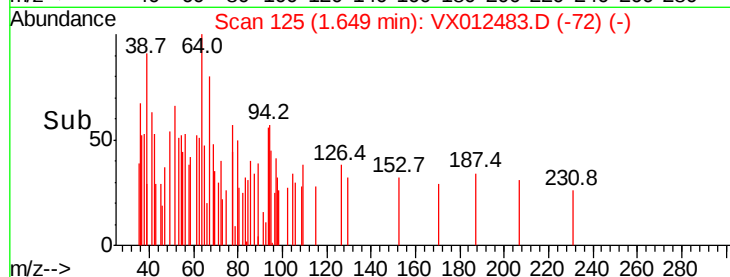
1.65

1.60

1.65

1.60

1.65



#6

Chloroethane

Concen: 0.343 ug/l

RT: 1.64 min Scan# 123

Delta R.T. -0.07 min

Lab File: VX012483.D

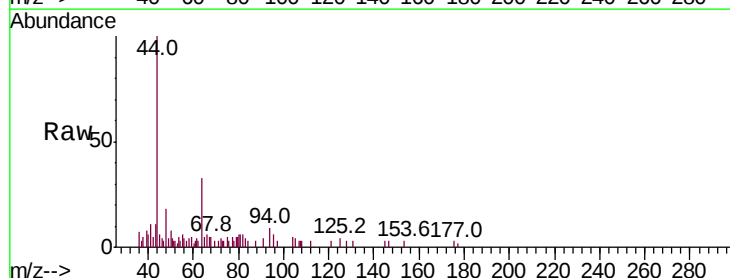
Acq: 18 Sep 2019 18:54

Tgt Ion: 64 Resp: 302

Ion Ratio Lower Upper

64 100

66 9.7 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.64

1.63

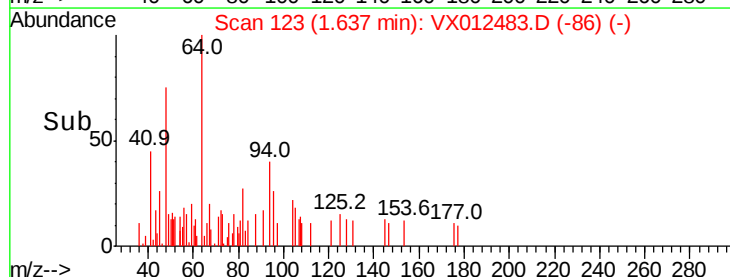
1.64

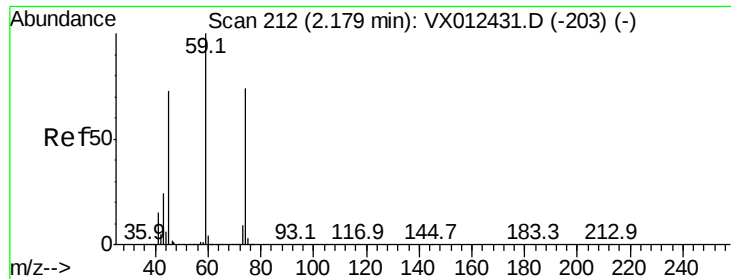
1.63

1.64

1.63

1.64





#8

Diethyl Ether

Concen: 0.247 ug/l

RT: 2.19 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

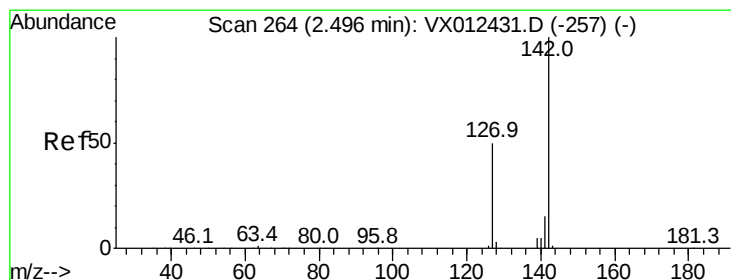
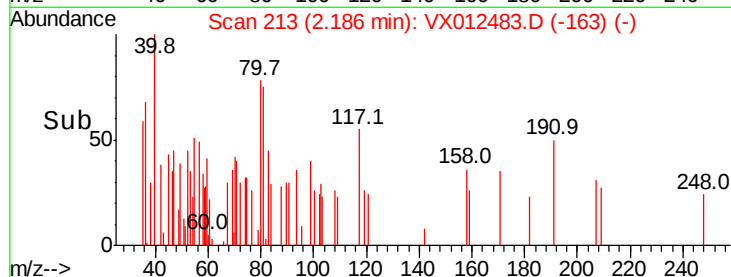
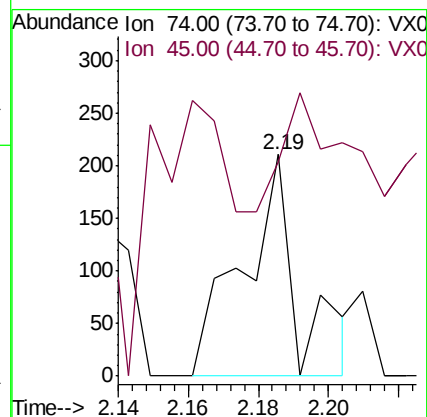
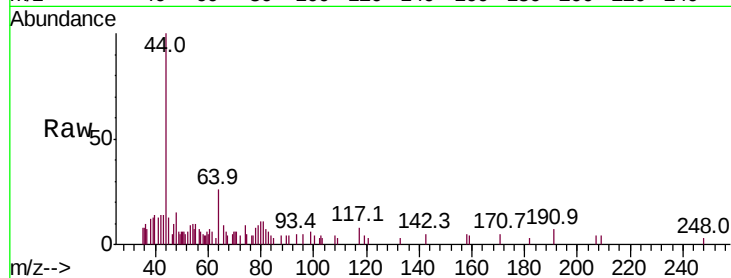
RE135D1-20190910

Tot Ion: 74 Resp: 230

Ion Ratio Lower Upper

74 100

45 69.6 49.9 149.7



#10

Methyl Iodide

Concen: 4.533 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

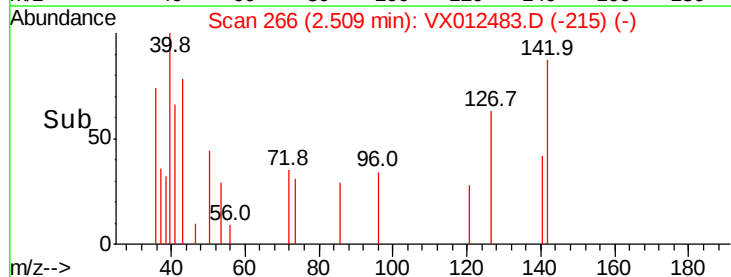
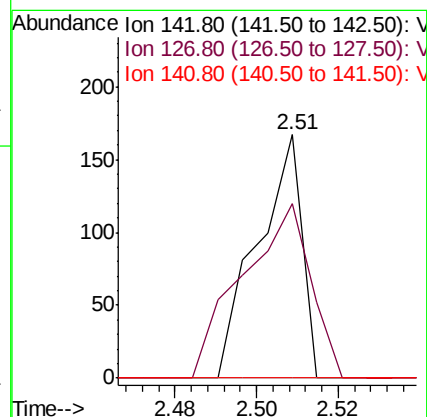
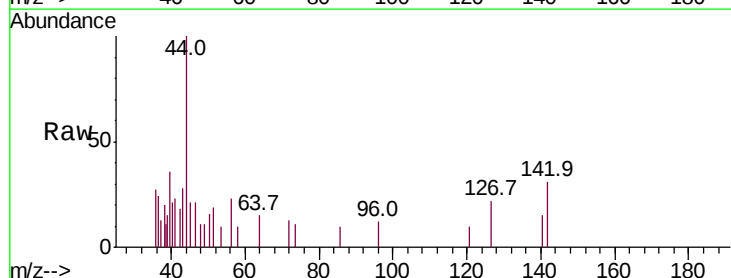
Tgt Ion: 142 Resp: 127

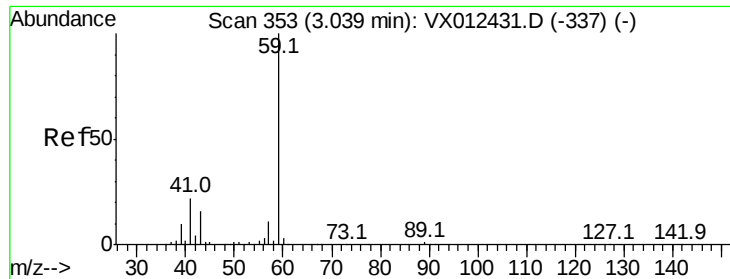
Ion Ratio Lower Upper

142 100

127 110.2 40.8 61.2#

141 0.0 12.1 18.1#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.03 min Scan# 352

Delta R.T. -0.01 min

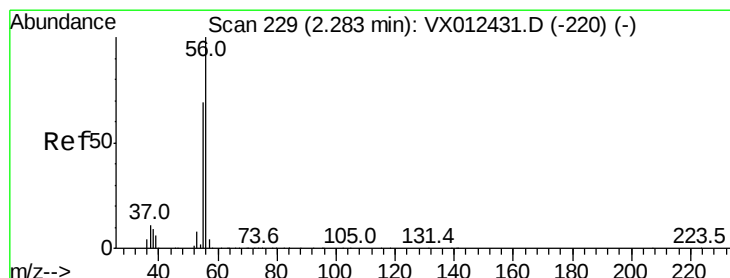
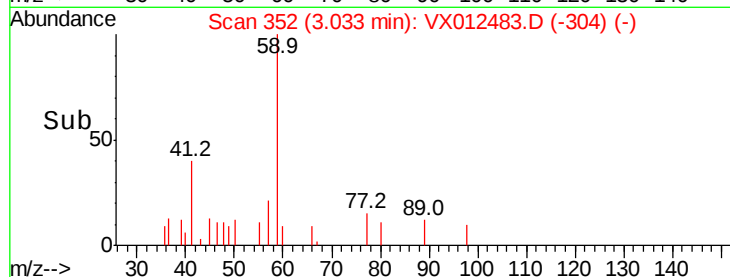
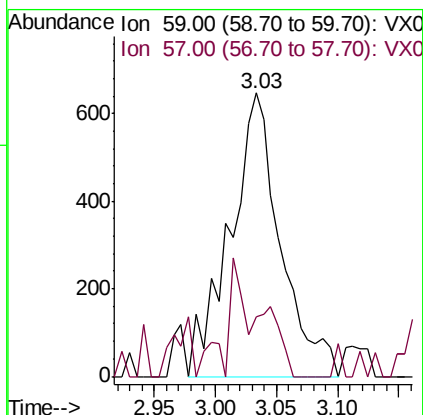
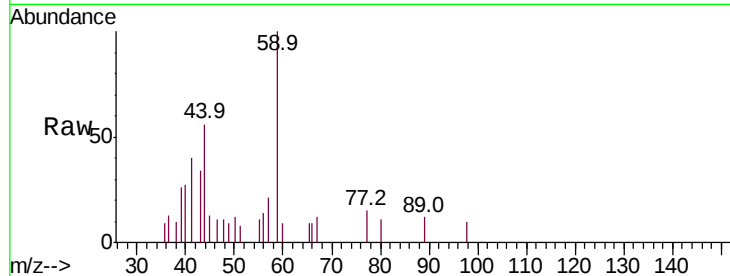
Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
RE135D1-20190910

Tot Ion: 59 Resp: 1850

Ion	Ratio	Lower	Upper
59	100		
57	15.0	8.3	12.5#



#13

Acrolein

Concen: Below Cal

RT: 2.34 min Scan# 238

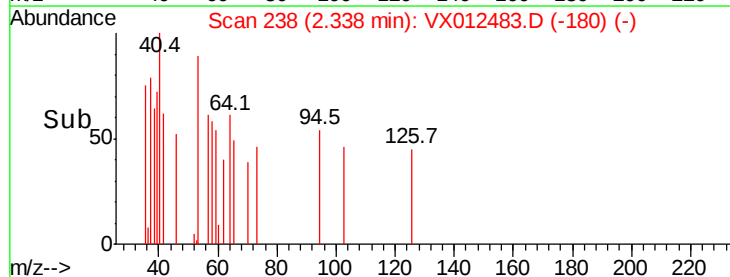
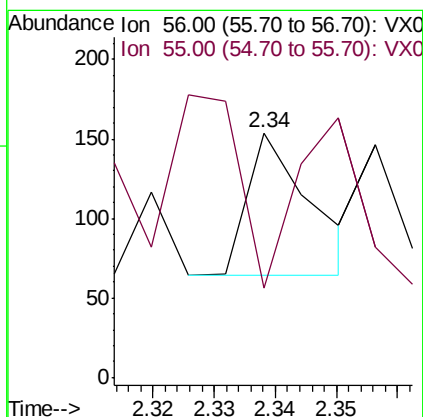
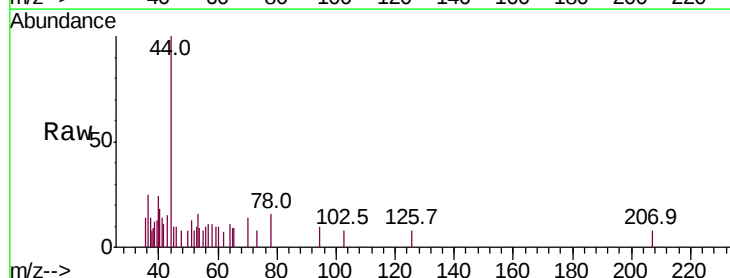
Delta R.T. 0.06 min

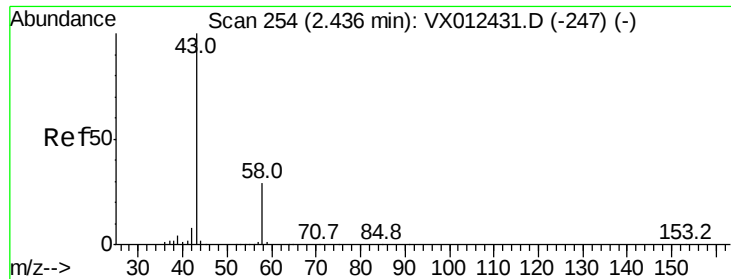
Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Tgt Ion: 56 Resp: 64

Ion	Ratio	Lower	Upper
56	100		
55	196.9	55.8	83.8#





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

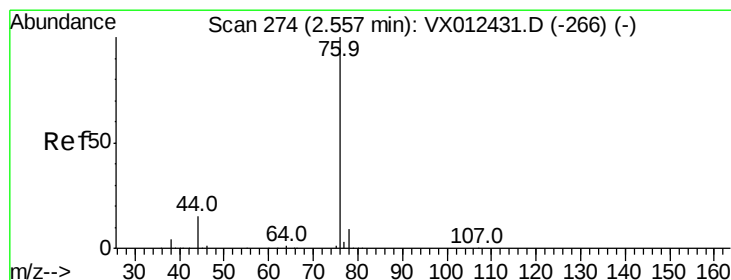
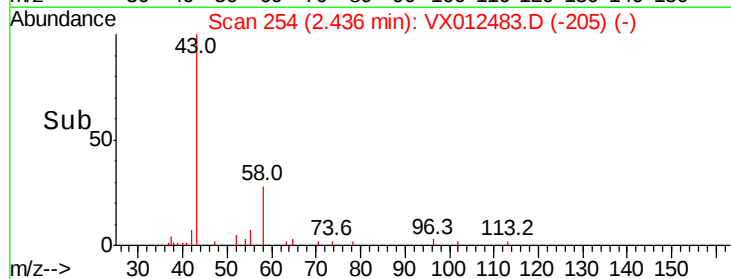
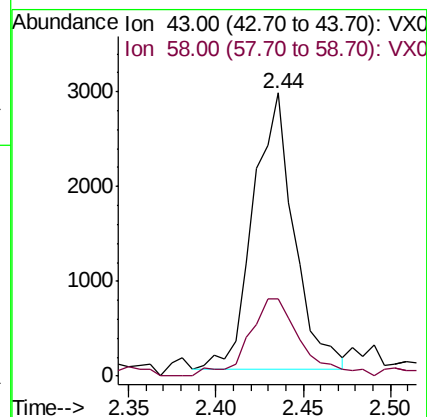
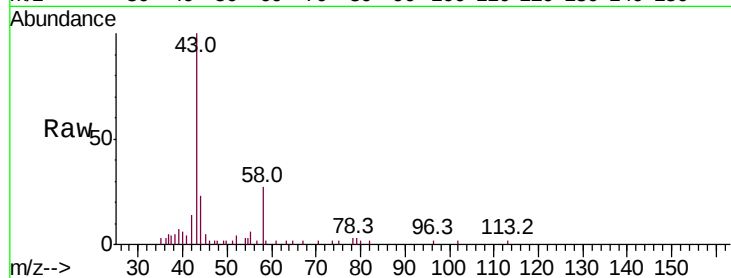
RE135D1-20190910

Tot Ion: 43 Resp: 4781

Ion Ratio Lower Upper

43 100

58 27.9 23.3 34.9



#17

Carbon Disulfide

Concen: 1.876 ug/l

RT: 2.55 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX012483.D

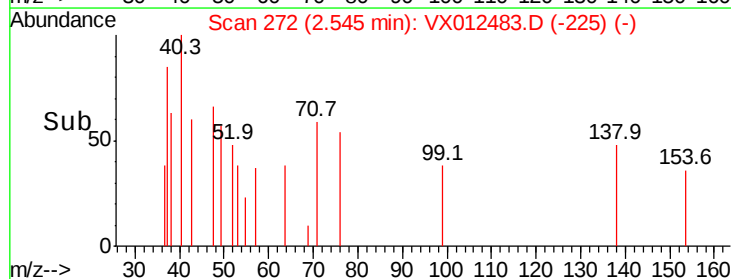
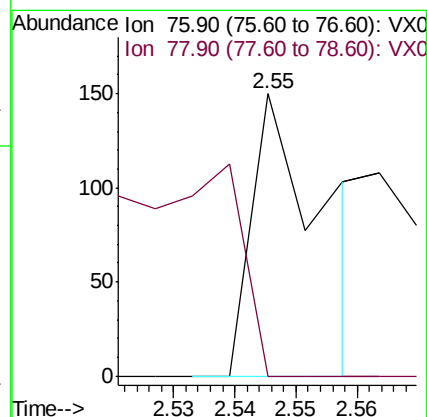
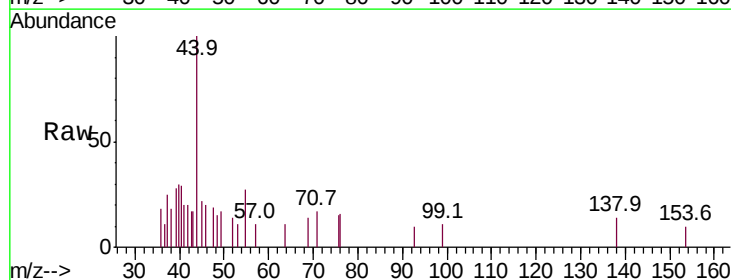
Acq: 18 Sep 2019 18:54

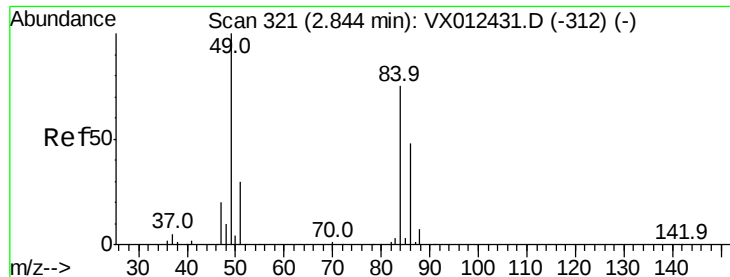
Tgt Ion: 76 Resp: 121

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

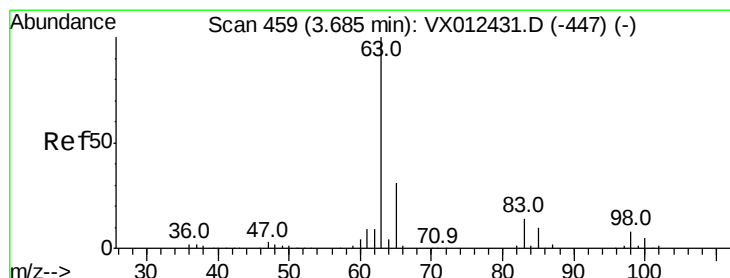
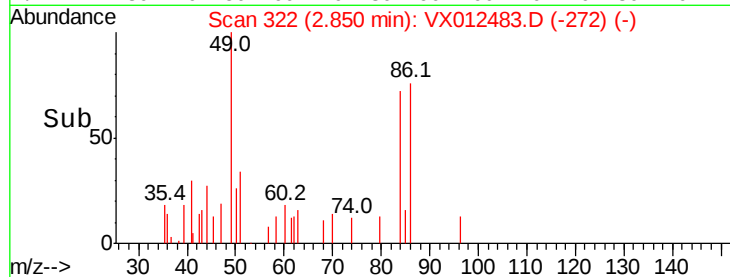
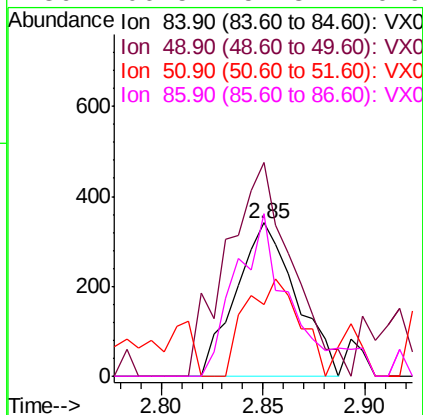
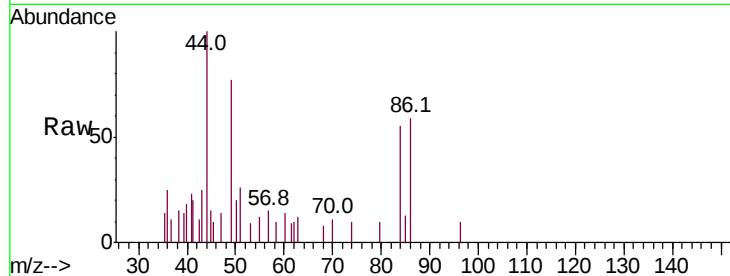




#20
Methvlene Chloride
Concen: 0.425 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX012483.D
Acq: 18 Sep 2019 18:54

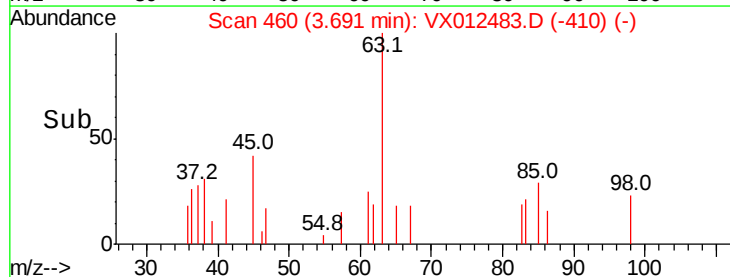
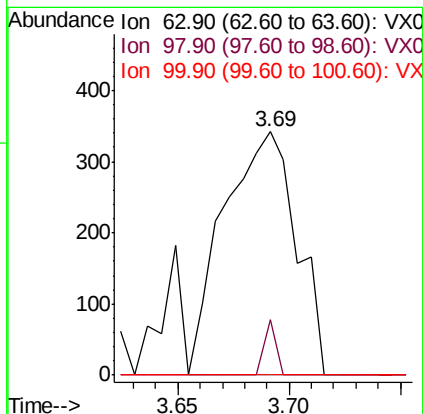
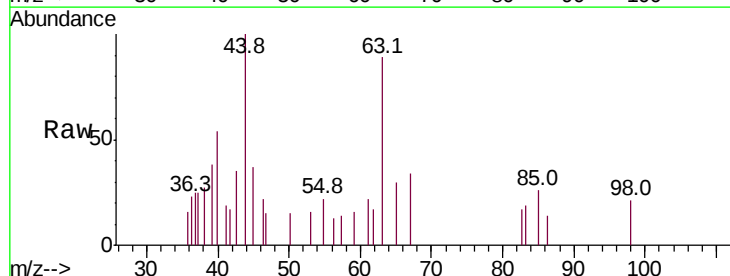
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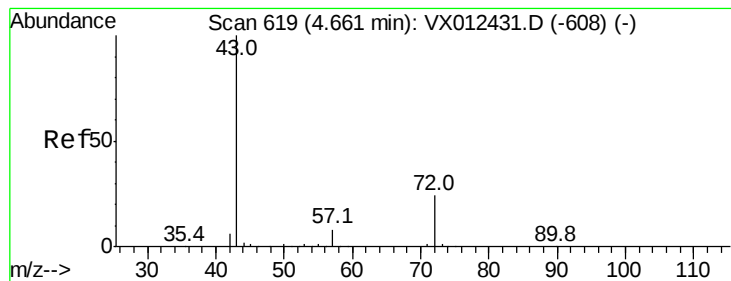
Tot Ion: 84 Resp: 697
Ion Ratio Lower Upper
84 100
49 139.3 106.8 160.2
51 27.6 32.3 48.5#
86 106.5 51.3 76.9#



#24
1,1-Dichloroethane
Concen: 0.250 ug/l
RT: 3.69 min Scan# 460
Delta R.T. 0.01 min
Lab File: VX012483.D
Acq: 18 Sep 2019 18:54

Tgt Ion: 63 Resp: 777
Ion Ratio Lower Upper
63 100
98 23.1 3.9 11.7#
100 0.0 2.3 6.9#





#25

2-Butanone

Concen: 0.218 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

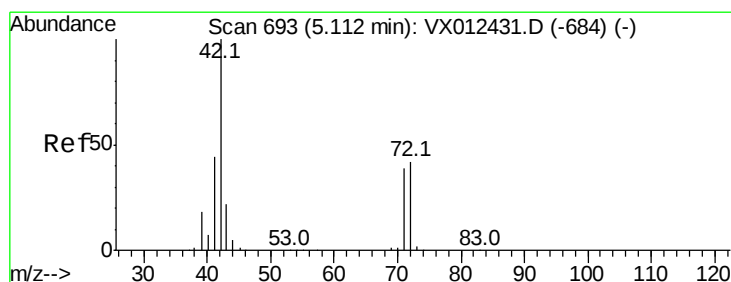
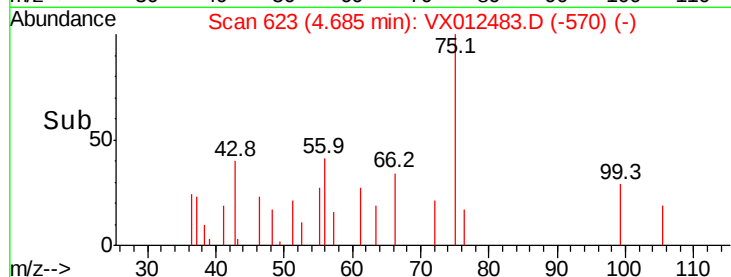
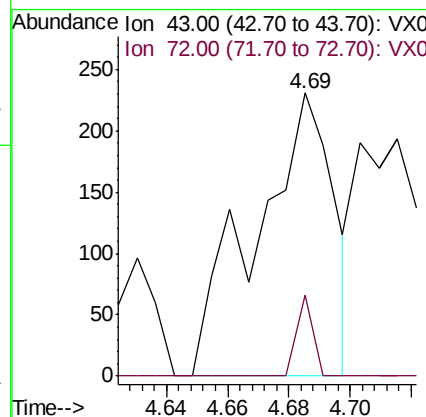
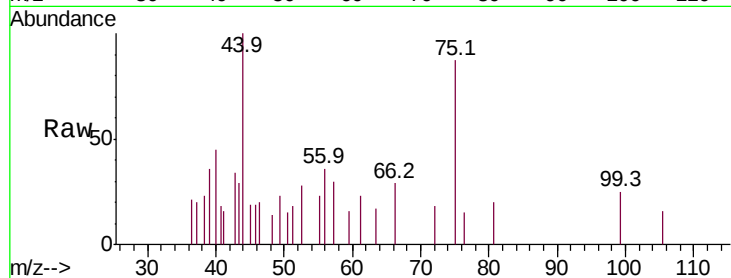
RE135D1-20190910

Tot Ion: 43 Resp: 411

Ion Ratio Lower Upper

43 100

72 28.6 19.2 28.8



#29

Tetrahydrofuran

Concen: 0.318 ug/l

RT: 5.11 min Scan# 693

Delta R.T. 0.00 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

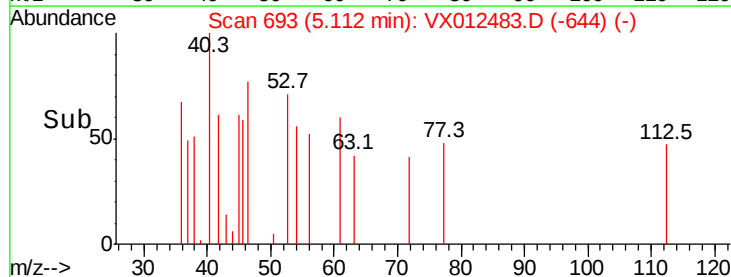
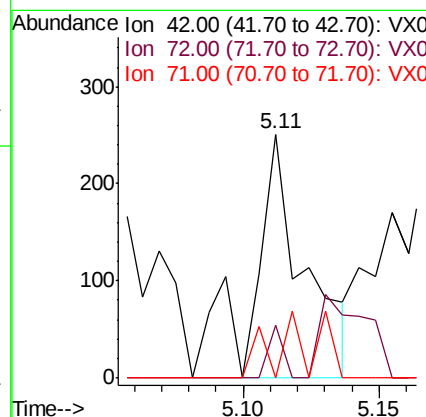
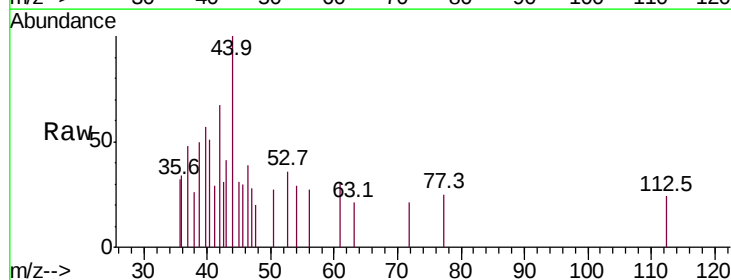
Tgt Ion: 42 Resp: 330

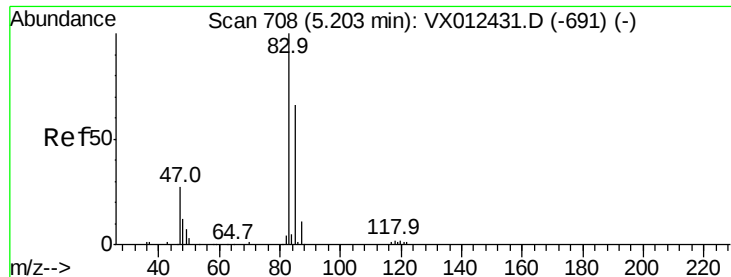
Ion Ratio Lower Upper

42 100

72 6.1 34.0 51.0#

71 15.2 31.5 47.3#

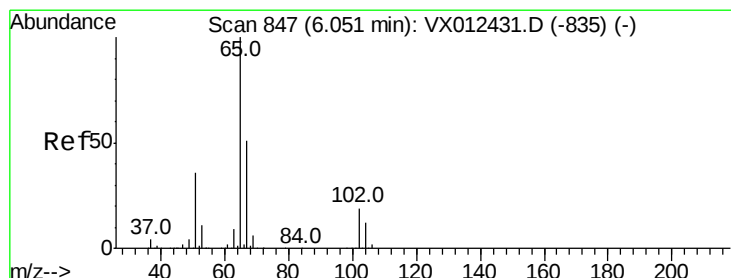
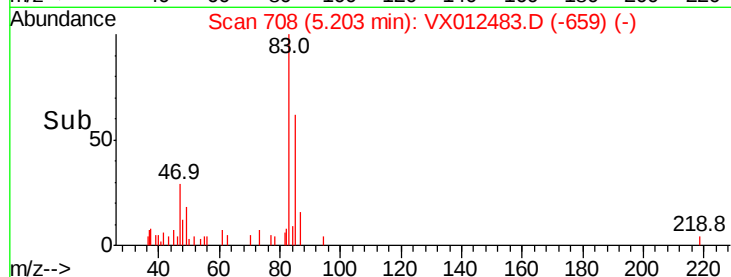
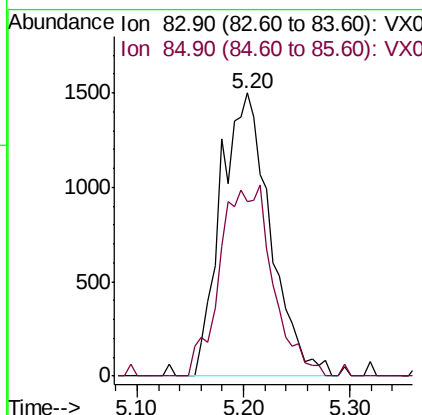
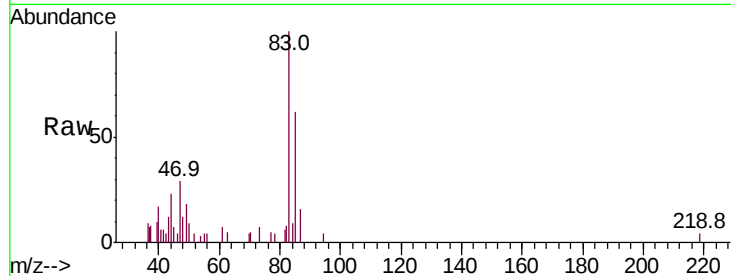




#30
Chloroform
Concen: 1.370 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.00 min
Lab File: VX012483.D
Acq: 18 Sep 2019 18:54

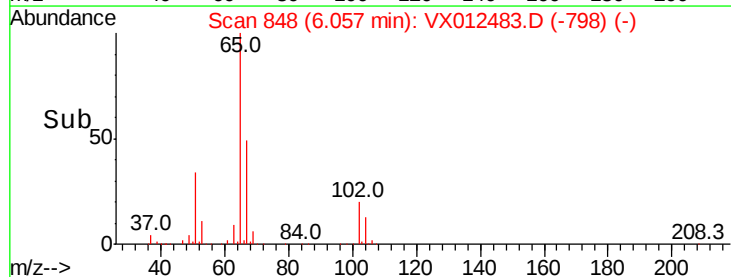
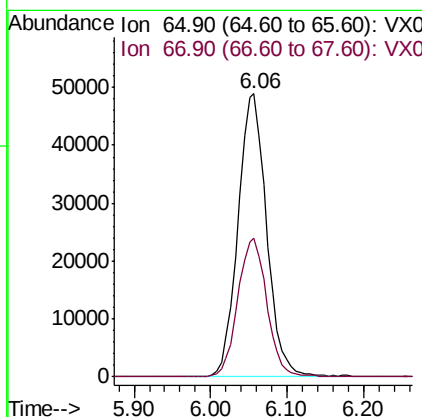
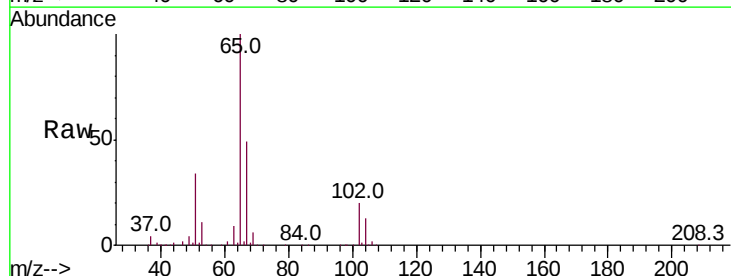
Instrument :
MSVOA_X
ClientSampleId :
RE135D1-20190910

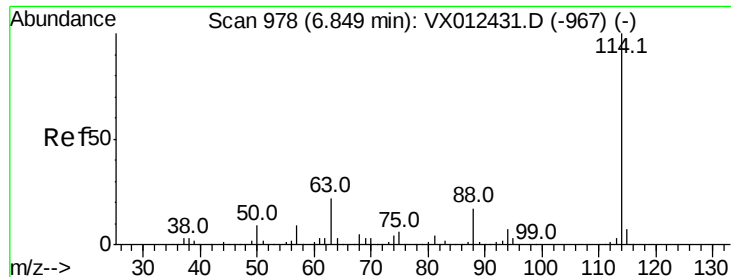
Tot Ion: 83 Resp: 4882
Ion Ratio Lower Upper
83 100
85 61.6 53.0 79.4



#33
1,2-Dichloroethane-d4
Concen: 46.800 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX012483.D
Acq: 18 Sep 2019 18:54

Tgt Ion: 65 Resp: 126915
Ion Ratio Lower Upper
65 100
67 49.8 0.0 101.2

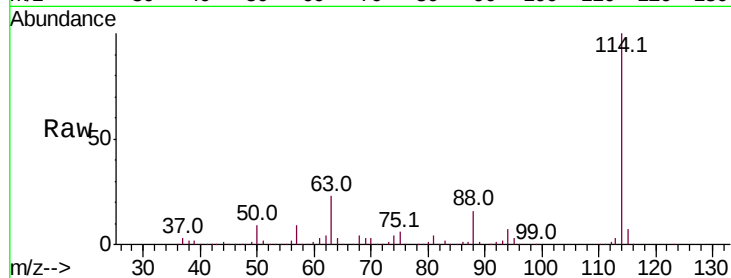




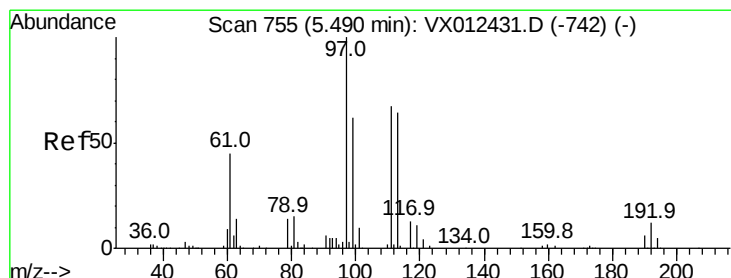
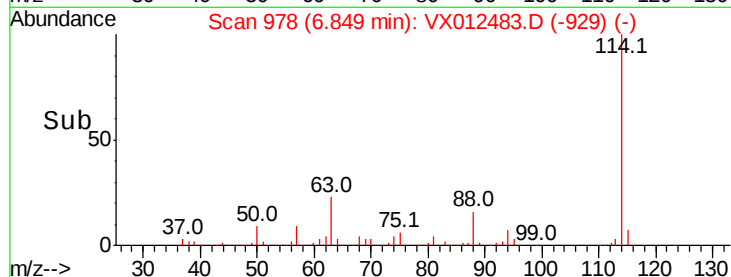
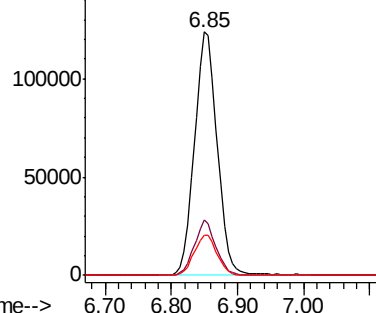
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012483.D
 Acq: 18 Sep 2019 18:54

Instrument :
 MSVOA_X
 ClientSampleId :
 RE135D1-20190910

Tot Ion:114 Resp: 295539
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 43.2
 88 16.4 0.0 33.2

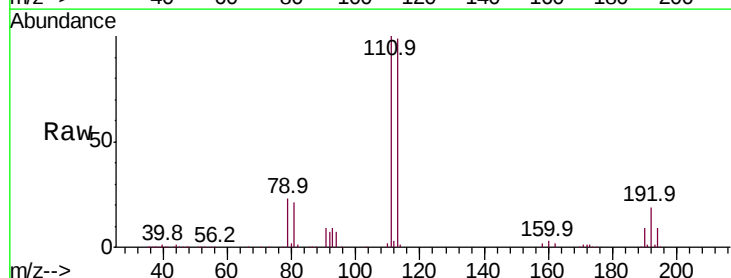


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

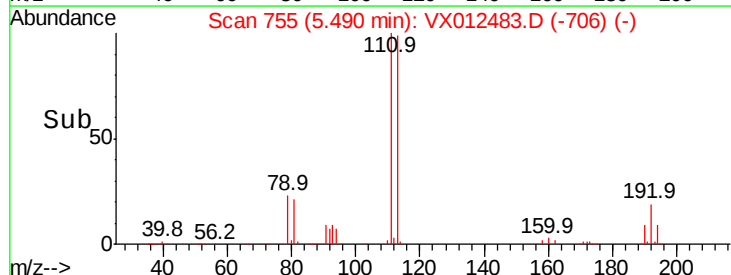
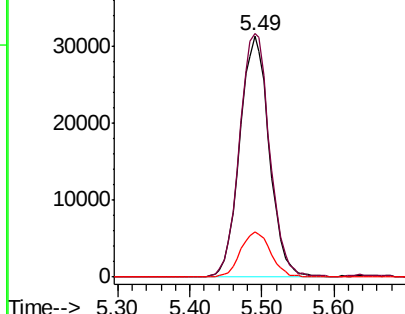


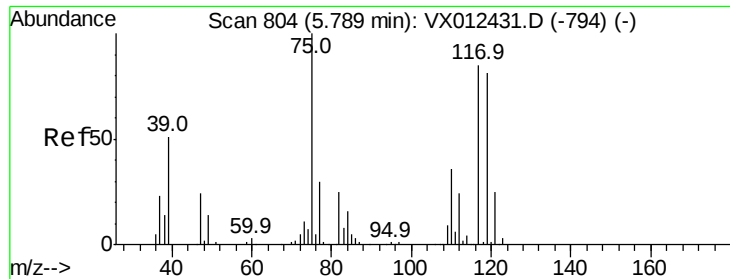
#35
 Dibromofluoromethane
 Concen: 49.652 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012483.D
 Acq: 18 Sep 2019 18:54

Tgt Ion:113 Resp: 88816
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.4 125.2
 192 19.1 14.4 21.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

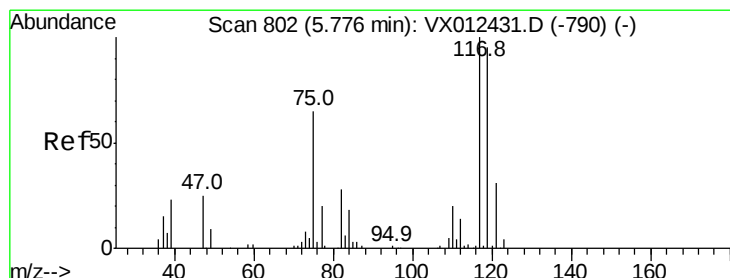
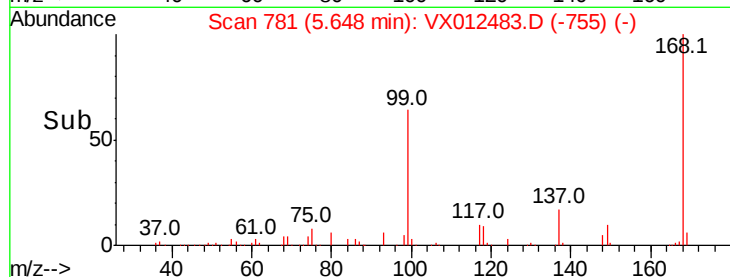
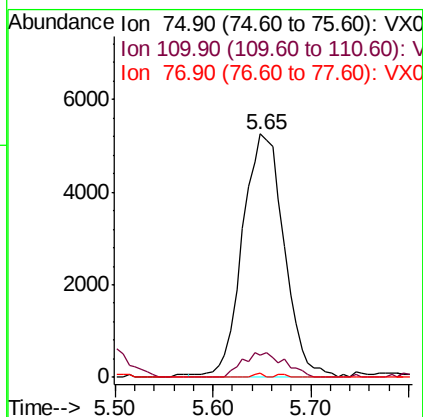
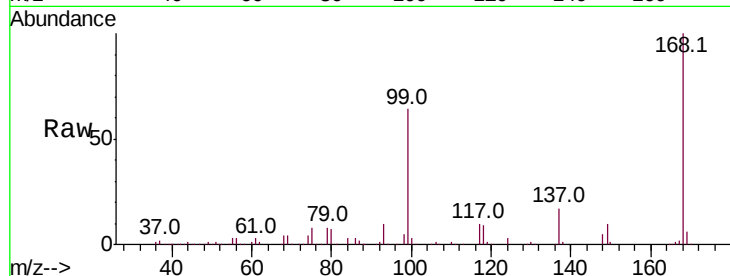




#36
 1,1-Dichloropropene
 Concen: 8.660 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012483.D
 Acq: 18 Sep 2019 18:54

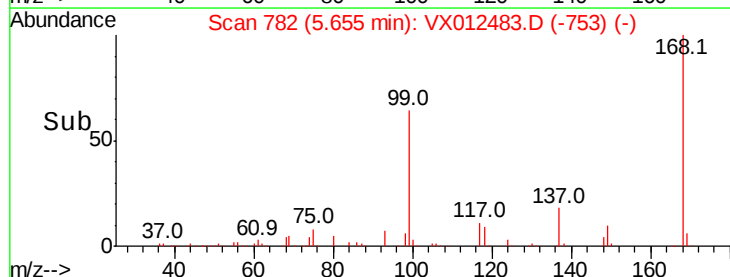
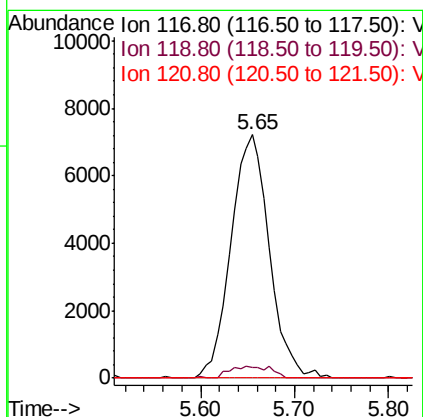
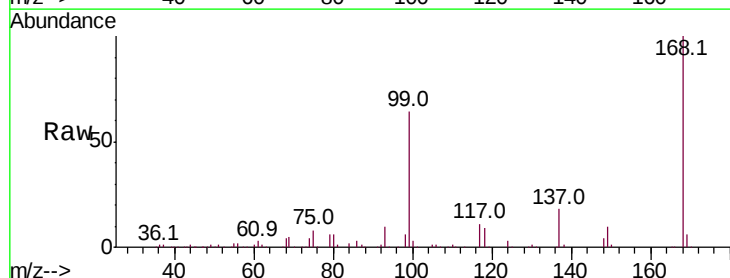
Instrument :
 MSVOA_X
 ClientSampleId :
 RE135D1-20190910

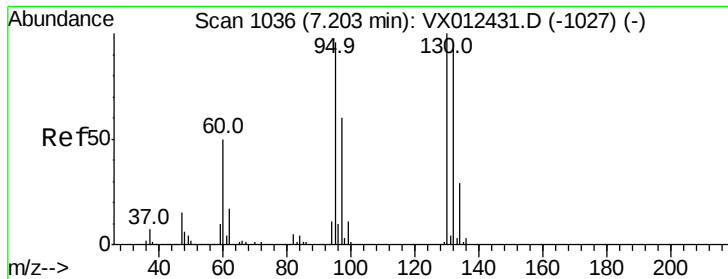
Tot Ion: 75 Resp: 15554
 Ion Ratio Lower Upper
 75 100
 110 10.4 16.7 50.0#
 77 0.4 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 9.178 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX012483.D
 Acq: 18 Sep 2019 18:54

Tgt Ion: 117 Resp: 20502
 Ion Ratio Lower Upper
 117 100
 119 4.1 75.7 113.5#
 121 0.0 24.2 36.4#





#44

Trichloroethene

Concen: 0.457 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

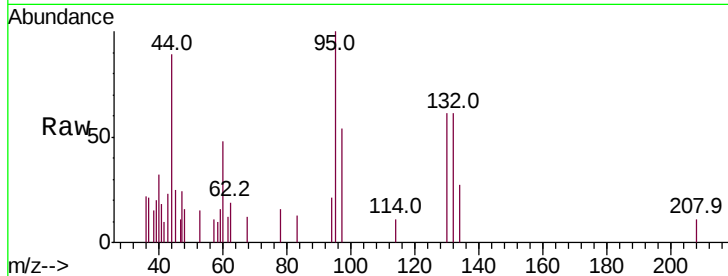
RE135D1-20190910

Tot Ion:130 Resp: 686

Ion Ratio Lower Upper

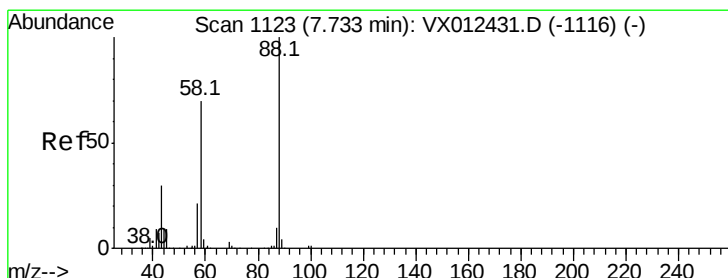
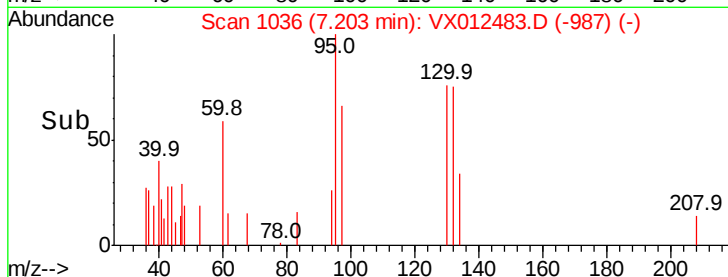
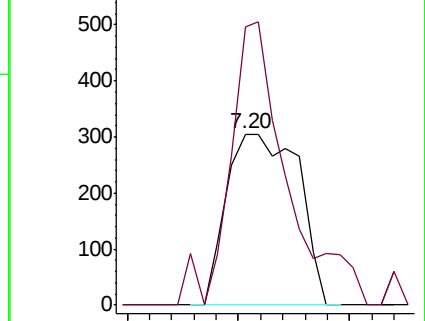
130 100

95 133.8 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: 0.335 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

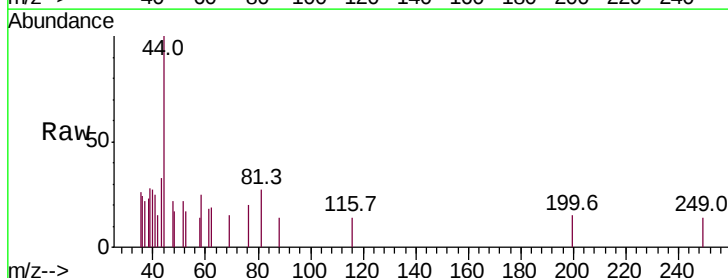
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 1573.7 29.4 44.0#

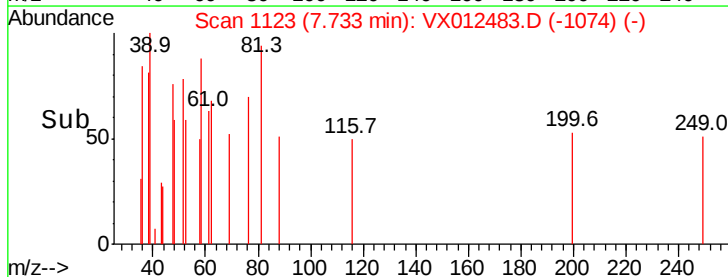
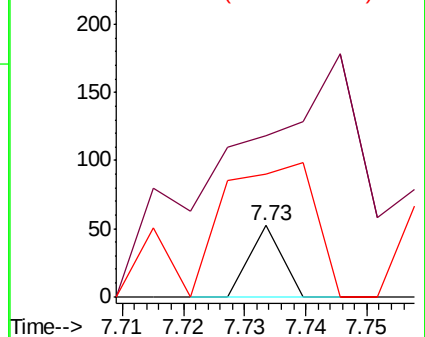
58 626.3 57.5 86.3#

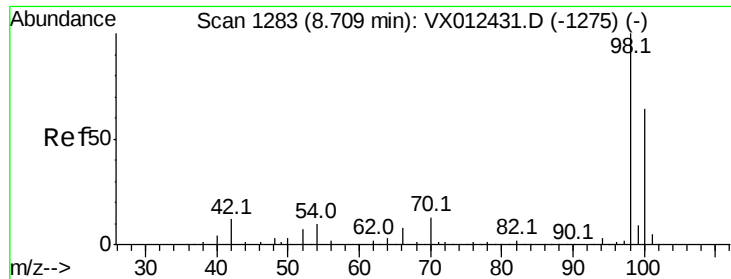


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

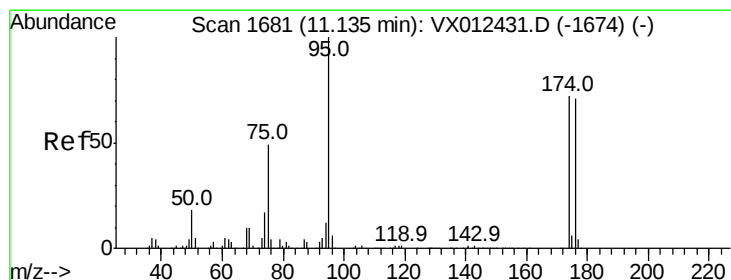
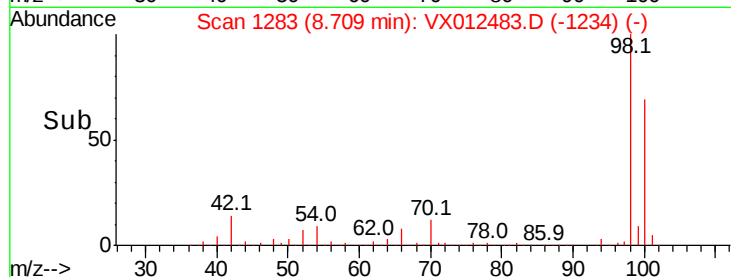
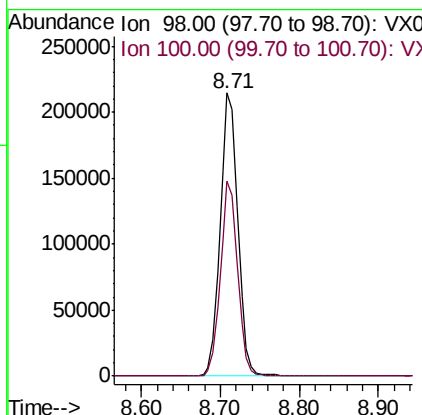
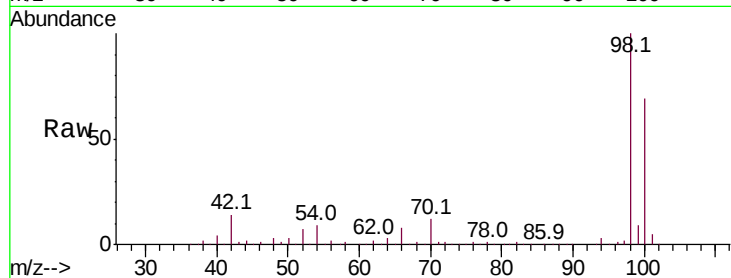




#50
Toluene-d8
Concen: 50.563 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012483.D
Acq: 18 Sep 2019 18:54

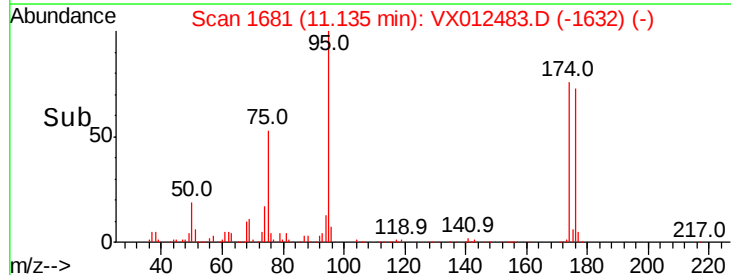
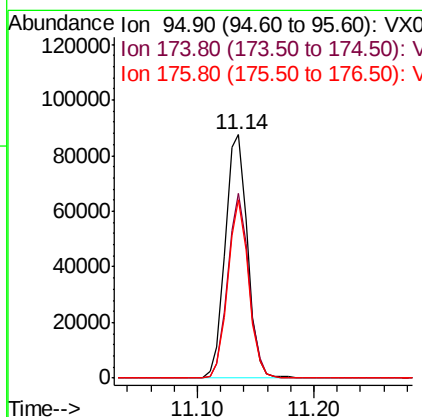
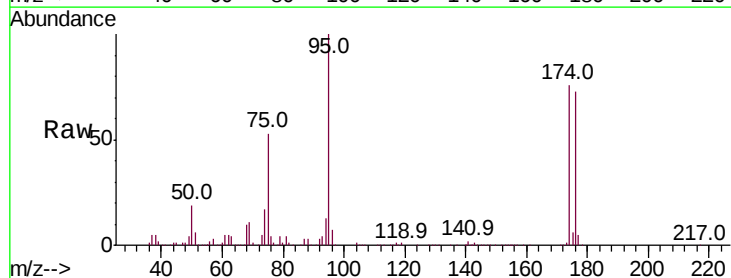
Instrument :
MSVOA_X
ClientSampleId :
RE135D1-20190910

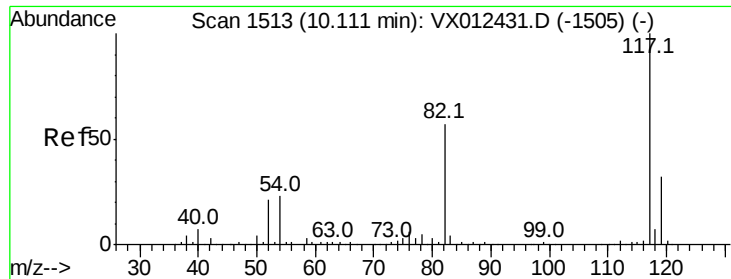
Tot Ion: 98 Resp: 334777
Ion Ratio Lower Upper
98 100
100 67.0 53.4 80.2



#62
4-Bromofluorobenzene
Concen: 42.338 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012483.D
Acq: 18 Sep 2019 18:54

Tgt Ion: 95 Resp: 116392
Ion Ratio Lower Upper
95 100
174 71.9 0.0 140.0
176 68.6 0.0 135.4

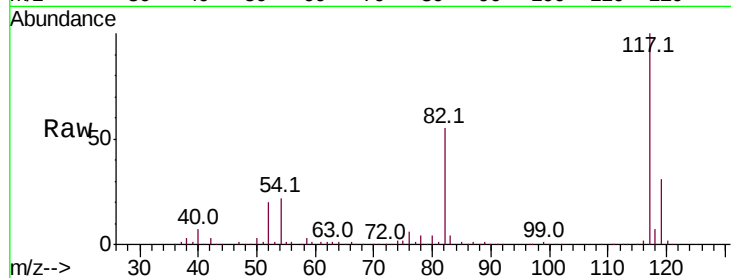




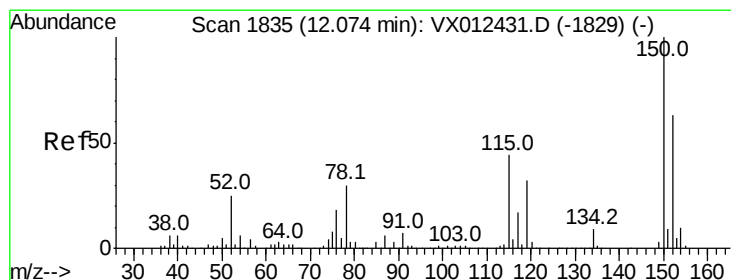
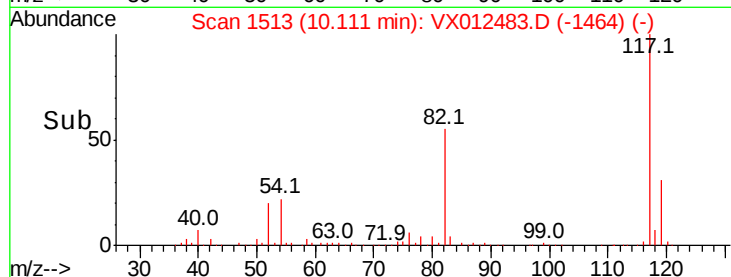
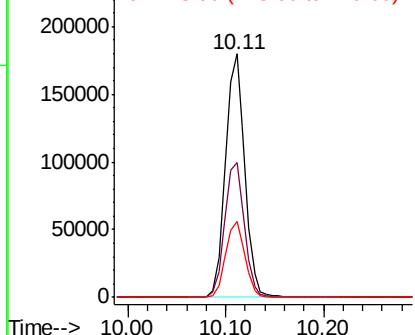
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012483.D
Acq: 18 Sep 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
RE135D1-20190910

Tot Ion:117 Resp: 244417
Ion Ratio Lower Upper
117 100
82 55.3 45.9 68.9
119 31.3 25.3 37.9

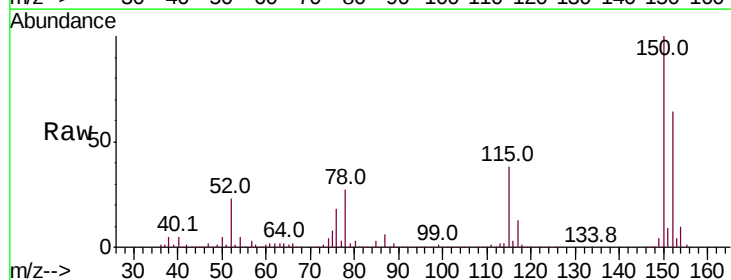


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

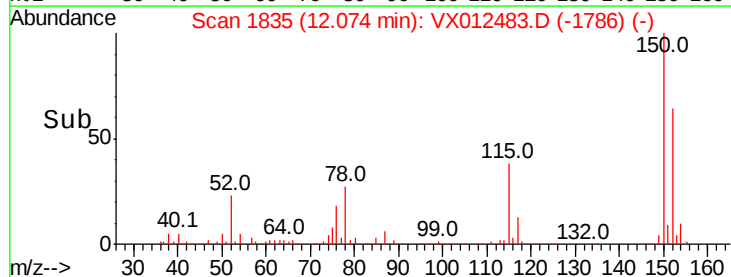
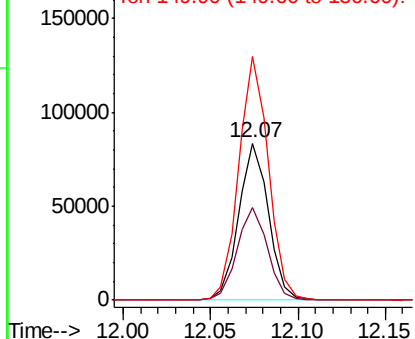


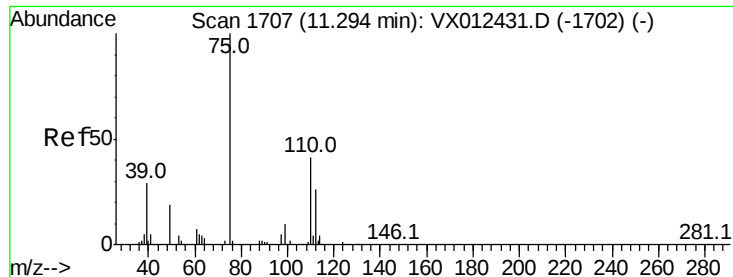
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012483.D
Acq: 18 Sep 2019 18:54

Tgt Ion:152 Resp: 98576
Ion Ratio Lower Upper
152 100
115 60.5 44.1 132.3
150 155.3 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: 26.753 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

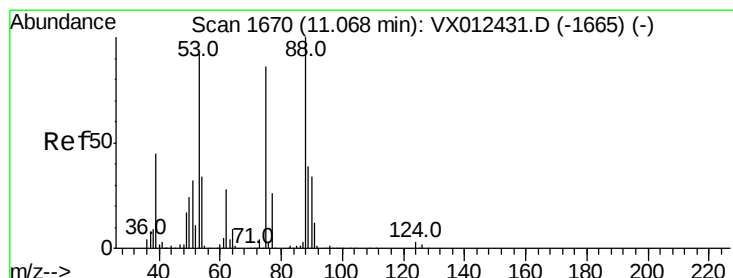
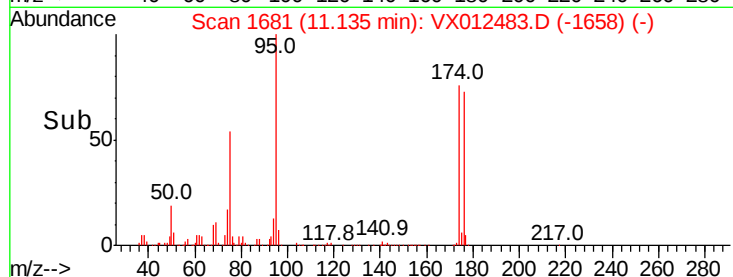
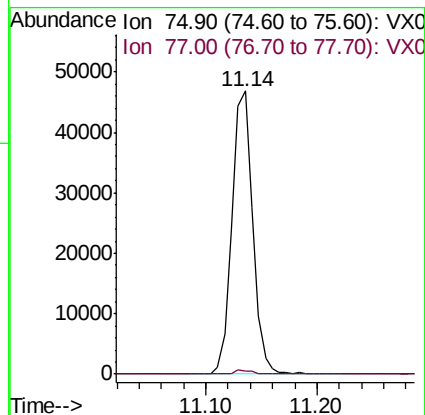
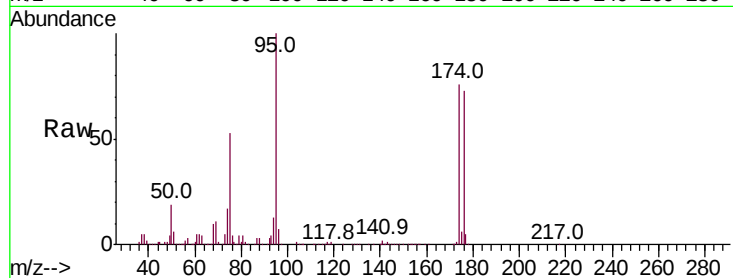
RE135D1-20190910

Tot Ion: 75 Resp: 60578

Ion Ratio Lower Upper

75 100

77 1.4 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.994 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012483.D

Acq: 18 Sep 2019 18:54

Tgt Ion: 75 Resp: 60578

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.1 36.3 54.5#

