

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092019\
 Data File : VX012583.D
 Acq On : 21 Sep 2019 02:06
 Operator : JC/SP
 Sample : K4930-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190916

Quant Time: Sep 21 04:03:22 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	177562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	279795	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	234301	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	94212	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	117894	46.33	ug/l	0.00
Spiked Amount			Recovery	=	92.66%	
35) Dibromofluoromethane	5.49	113	85251	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
50) Toluene-d8	8.71	98	320503	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
62) 4-Bromofluorobenzene	11.14	95	111376	42.79	ug/l	0.00
Spiked Amount			Recovery	=	85.58%	

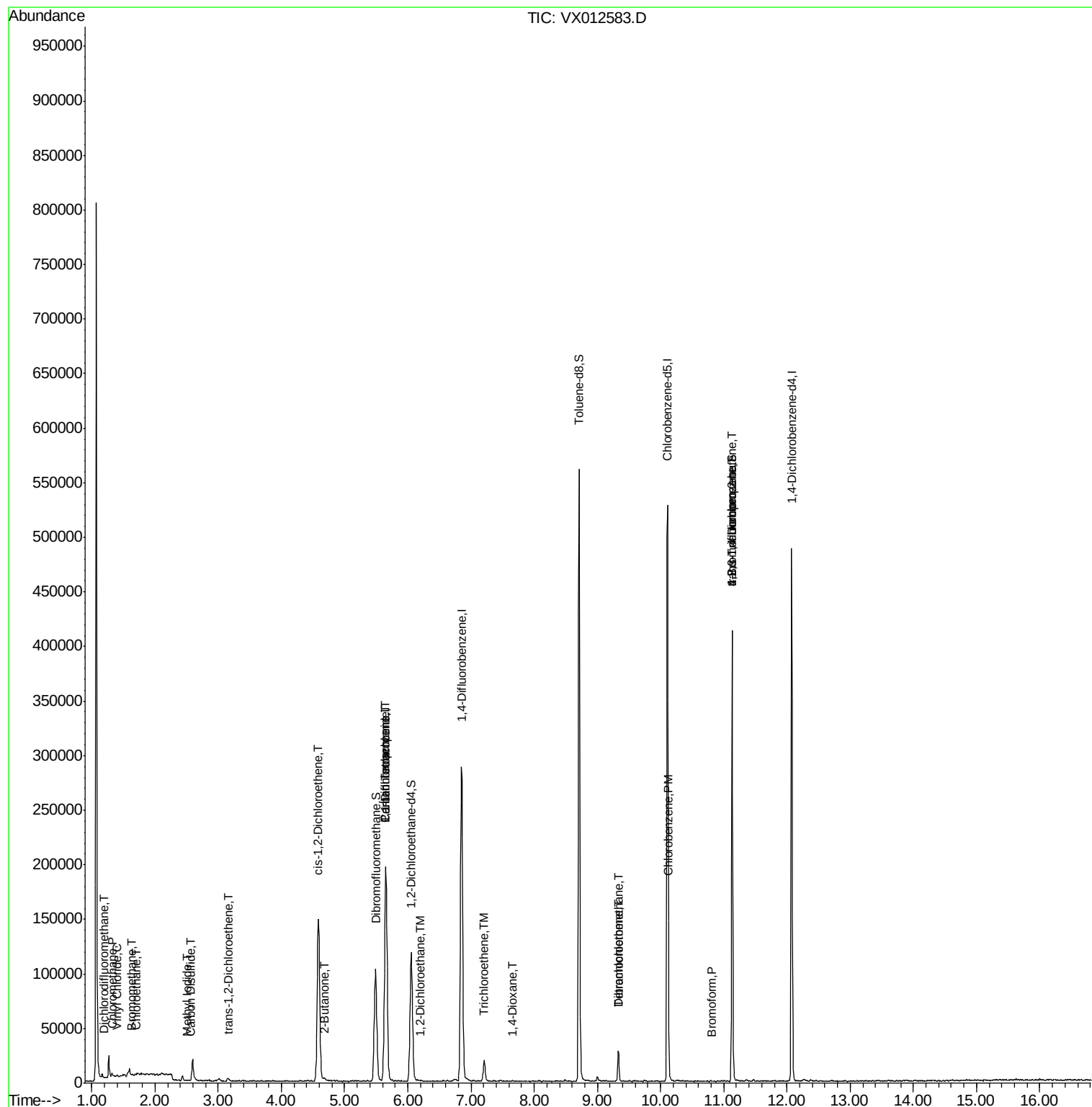
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	24	0.411	ug/l #	43
3) Chloromethane	1.32	50	1665	1.706	ug/l	98
4) Vinyl Chloride	1.40	62	771	0.731	ug/l #	66
5) Bromomethane	1.63	94	282	0.680	ug/l #	5
6) Chloroethane	1.70	64	1940	2.350	ug/l #	62
10) Methyl Iodide	2.51	142	195	4.590	ug/l #	91
11) Tert butyl alcohol	3.00	59	1671	Below Cal	#	72
13) Acrolein	2.28	56	98	Below Cal	#	15
16) Acetone	2.44	43	3900	Below Cal		95
17) Carbon Disulfide	2.56	76	167	1.908	ug/l #	1
21) trans-1,2-Dichloroethene	3.15	96	881	0.760	ug/l	92
25) 2-Butanone	4.68	43	888	0.503	ug/l #	83
27) cis-1,2-Dichloroethene	4.59	96	91319	52.733	ug/l	84
36) 1,1-Dichloropropene	5.65	75	14610	8.592	ug/l #	43
38) Carbon Tetrachloride	5.65	117	18534	8.764	ug/l #	16
42) 1,2-Dichloroethane	6.19	62	637	0.254	ug/l	93
44) Trichloroethene	7.21	130	7127	5.010	ug/l	97
49) 1,4-Dioxane	7.65	88	51	0.949	ug/l #	1
60) Dibromochloromethane	9.33	129	4876	2.667	ug/l #	11
64) Tetrachloroethene	9.33	164	5086	4.737	ug/l	89
65) Chlorobenzene	10.13	112	876	0.227	ug/l #	82
71) Bromoform	10.82	173	25	2.887	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	58349	26.962	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	58349	72.533	ug/l #	8

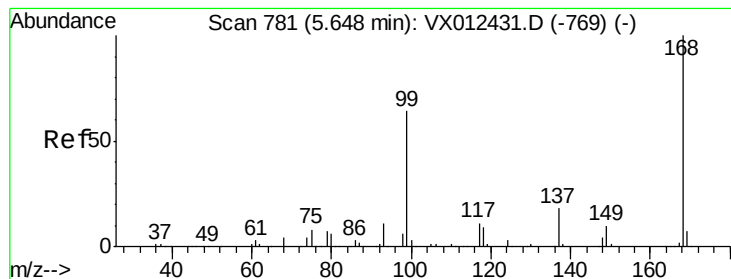
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

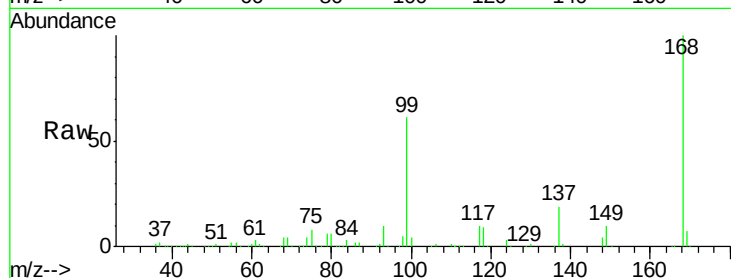
KY038PS027-190916

Tot Ion:168 Resp: 177562

Ion Ratio Lower Upper

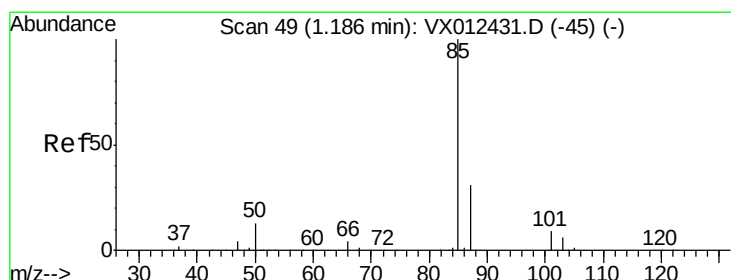
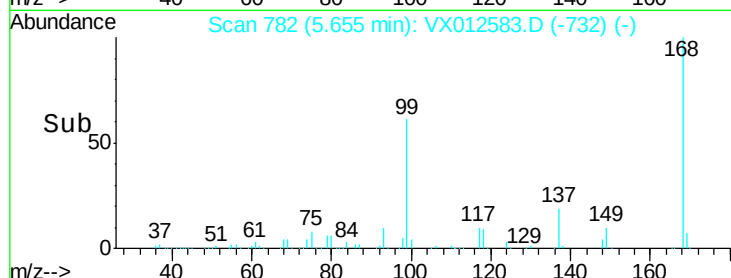
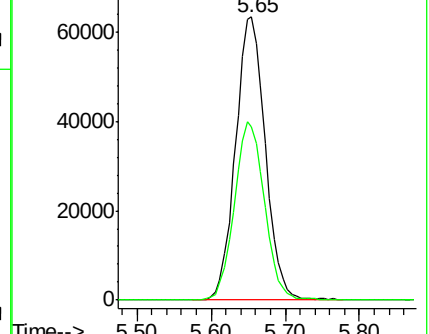
168 100

99 61.4 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: 0.411 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX012583.D

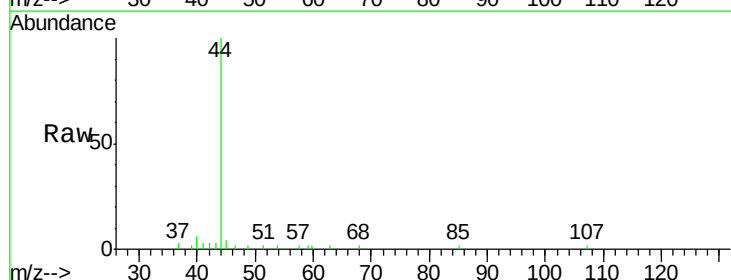
Acq: 21 Sep 2019 02:06

Tgt Ion: 85 Resp: 24

Ion Ratio Lower Upper

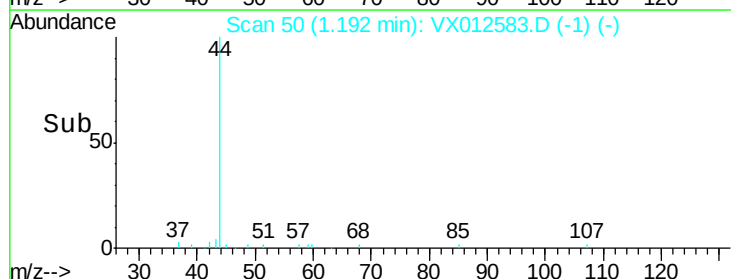
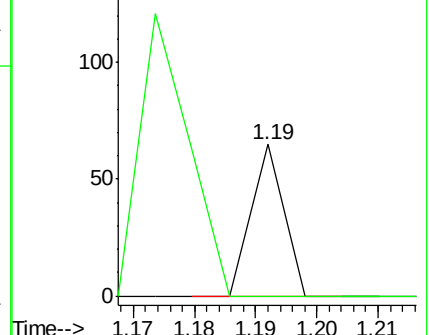
85 100

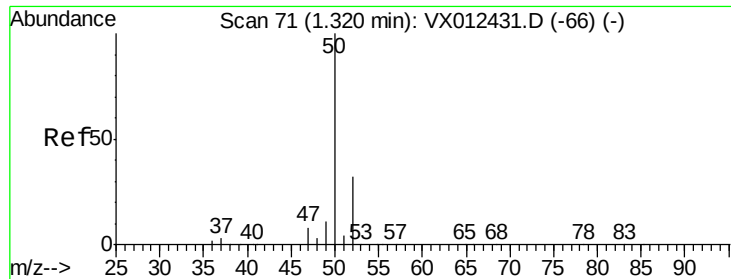
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 1.706 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

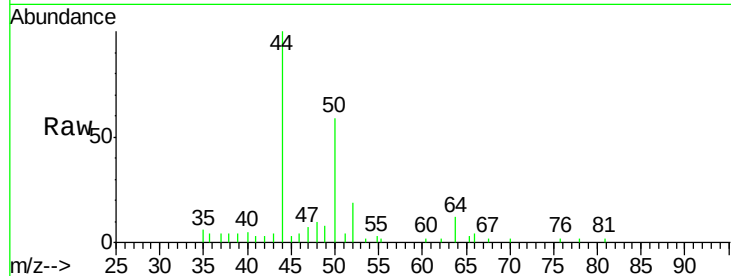
KY038PS027-190916

Tot Ion: 50 Resp: 1665

Ion Ratio Lower Upper

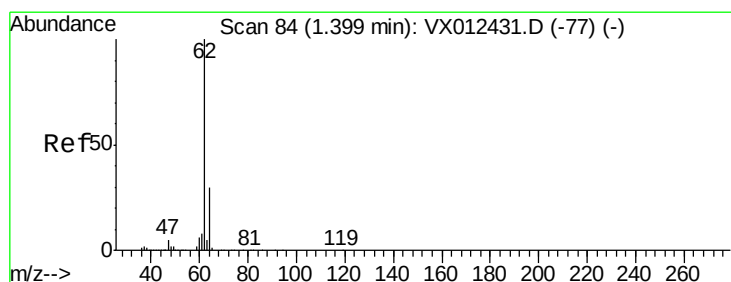
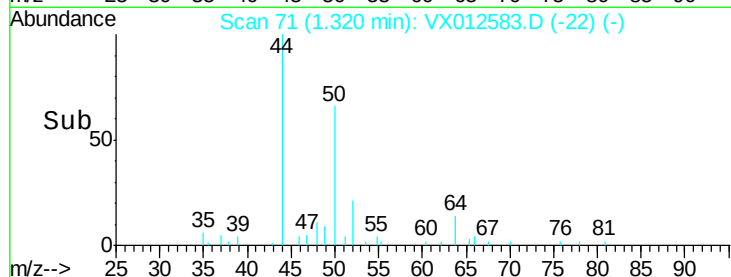
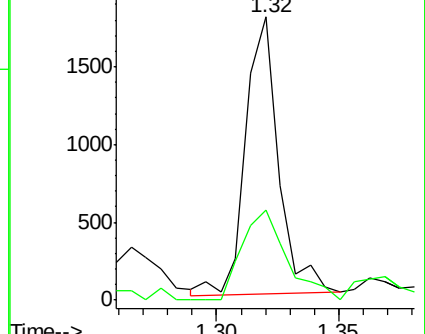
50 100

52 33.0 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: 0.731 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012583.D

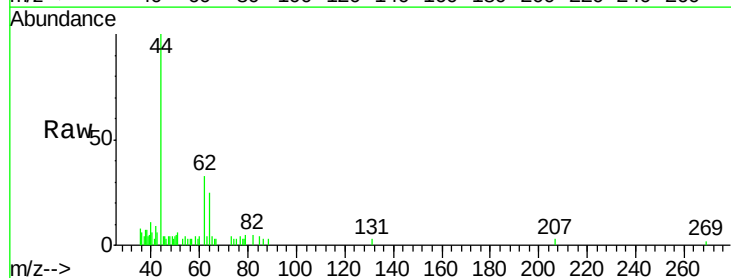
Acq: 21 Sep 2019 02:06

Tgt Ion: 62 Resp: 771

Ion Ratio Lower Upper

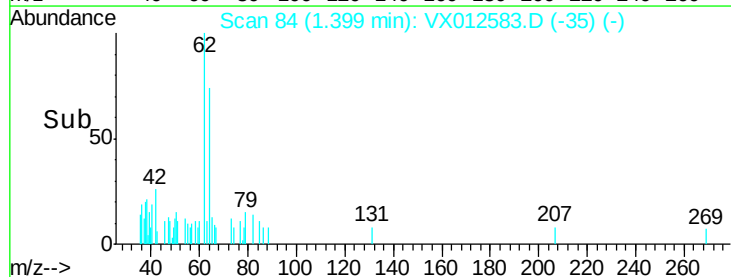
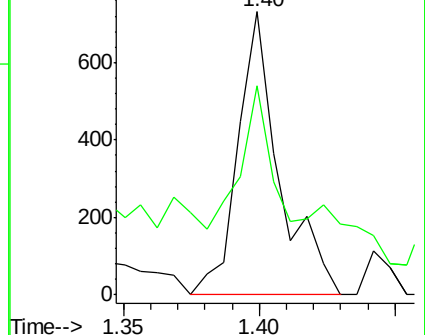
62 100

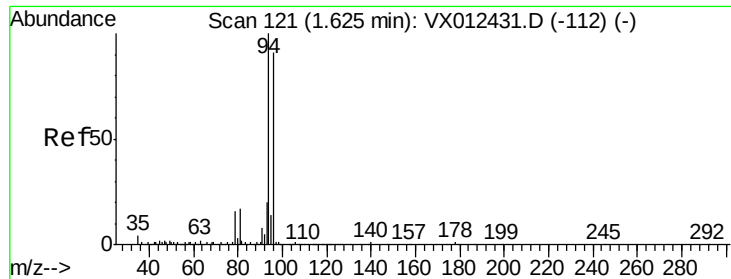
64 48.7 24.2 36.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.680 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

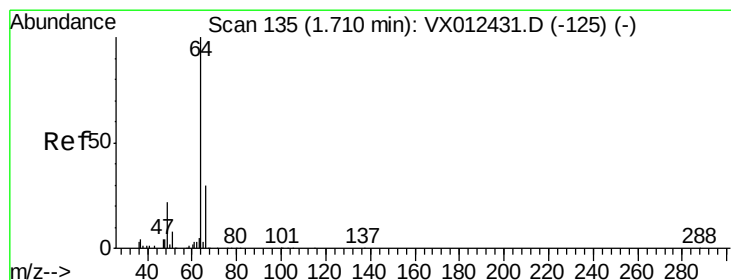
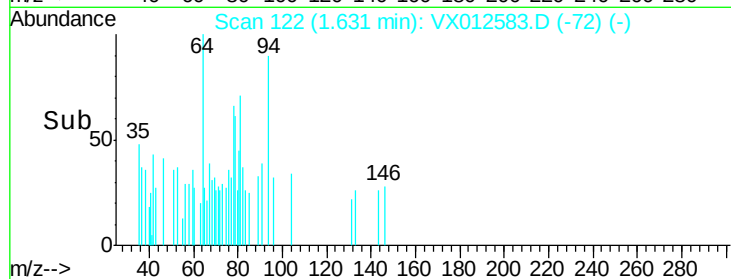
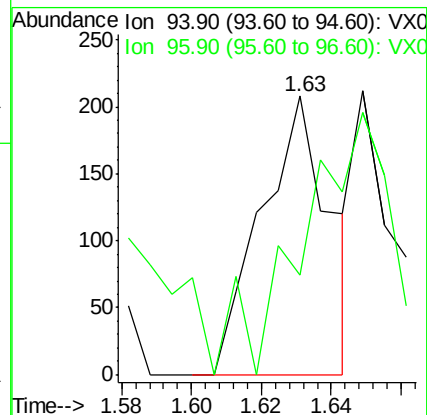
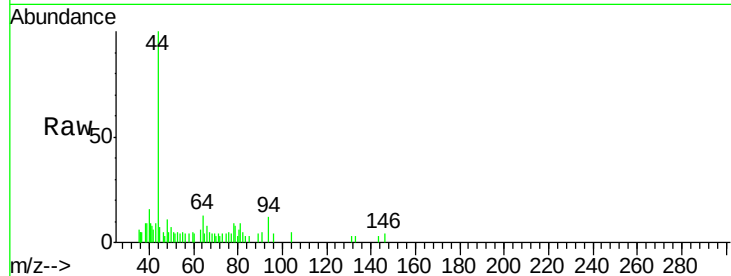
KY038PS027-190916

Tot Ion: 94 Resp: 282

Ion Ratio Lower Upper

94 100

96 1.0 72.8 109.2#



#6

Chloroethane

Concen: 2.350 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012583.D

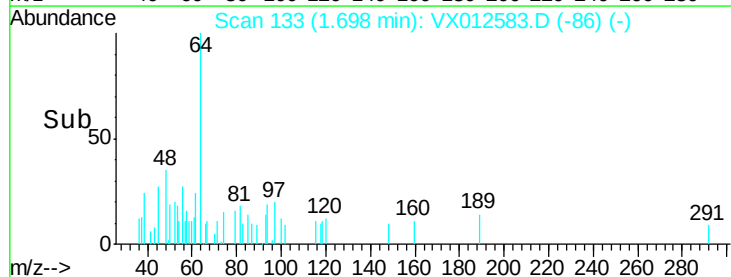
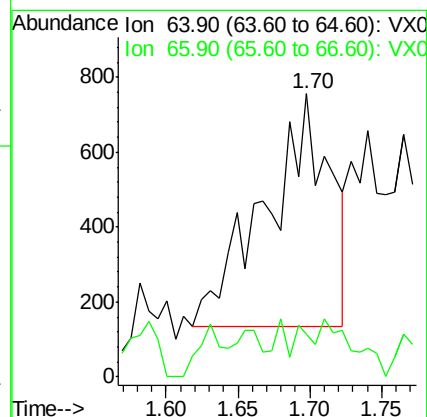
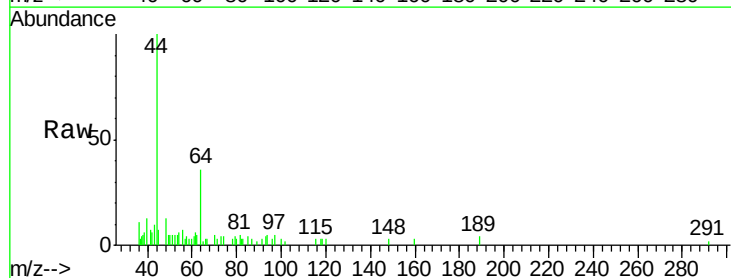
Acq: 21 Sep 2019 02:06

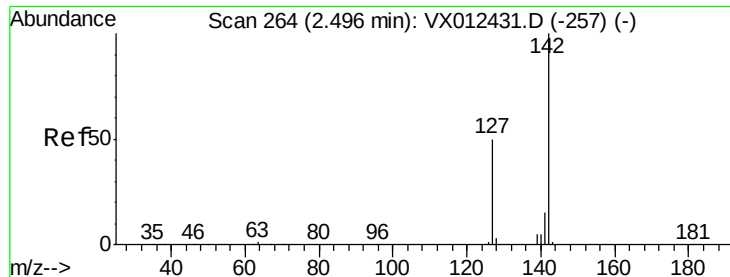
Tgt Ion: 64 Resp: 1940

Ion Ratio Lower Upper

64 100

66 9.3 24.0 36.0#

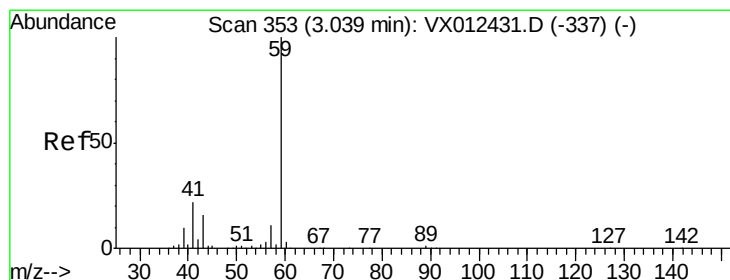
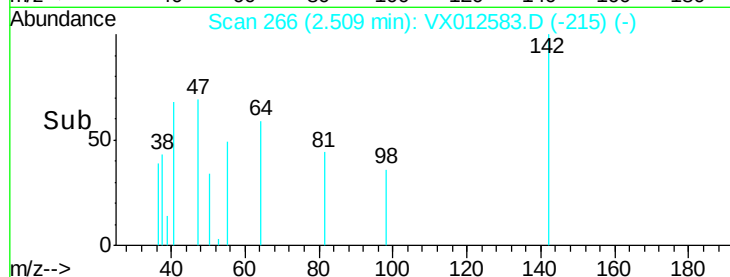
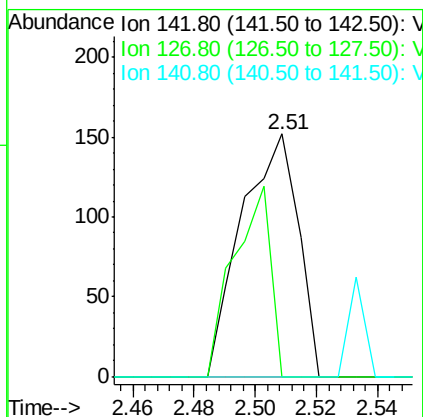
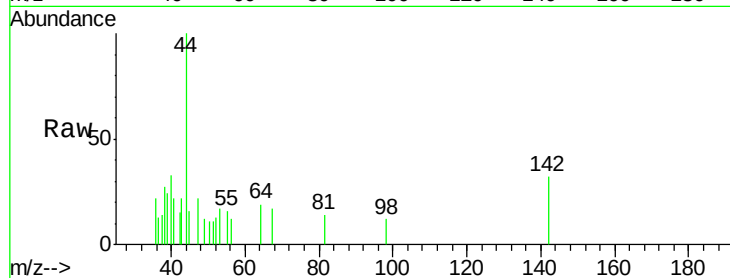




#10
Methvl Iodide
Concen: 4.590 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012583.D
Acq: 21 Sep 2019 02:06

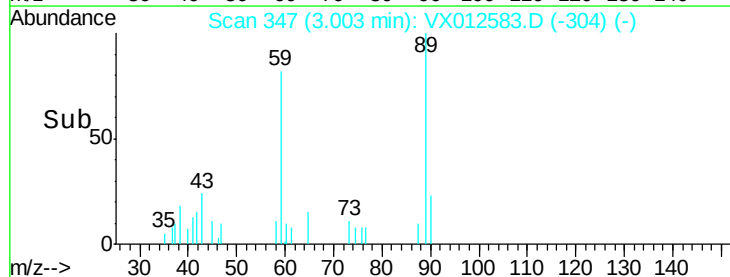
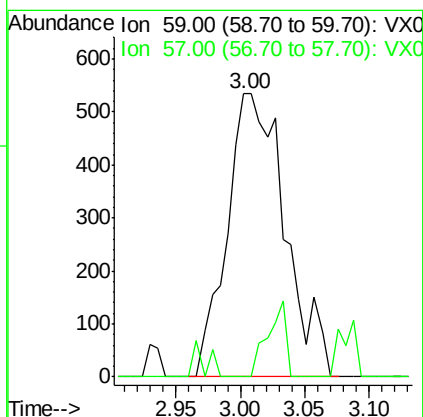
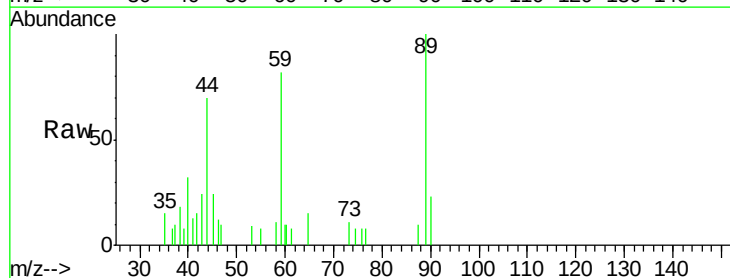
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190916

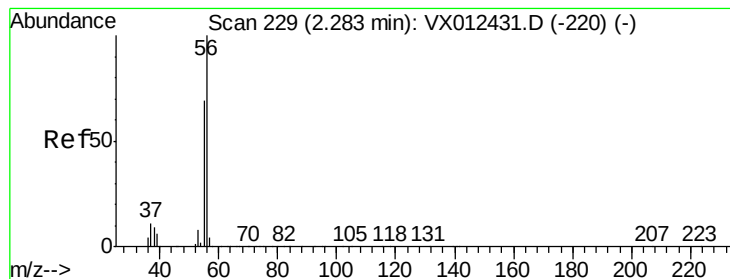
Tot Ion:142 Resp: 195
Ion Ratio Lower Upper
142 100
127 51.3 40.8 61.2
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX012583.D
Acq: 21 Sep 2019 02:06

Tgt Ion: 59 Resp: 1671
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

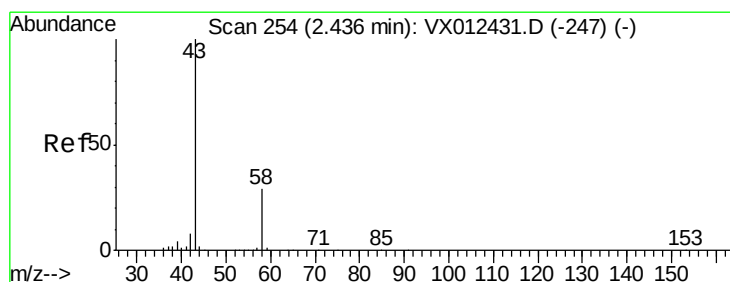
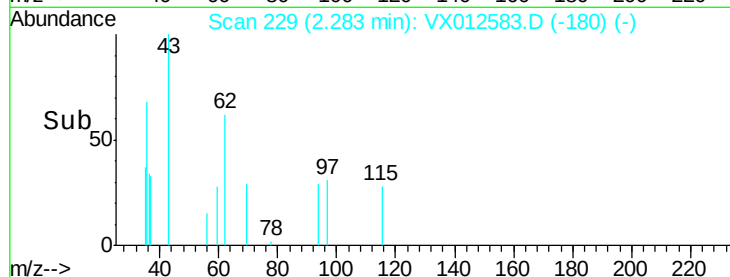
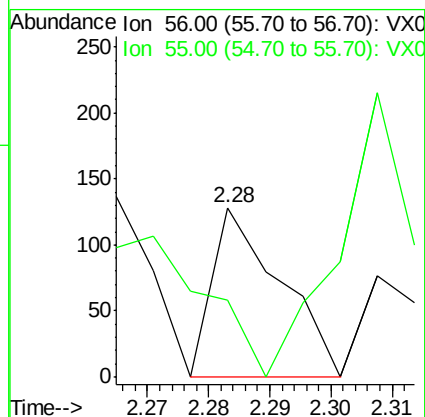
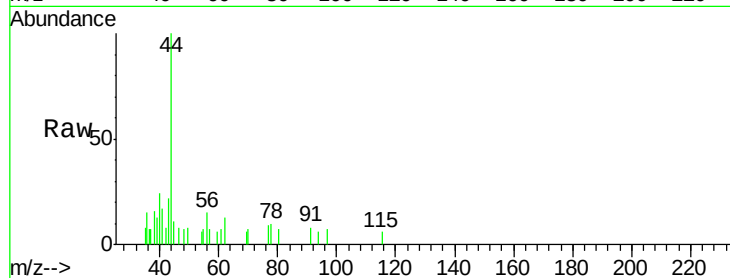
KY038PS027-190916

Tot Ion: 56 Resp: 98

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012583.D

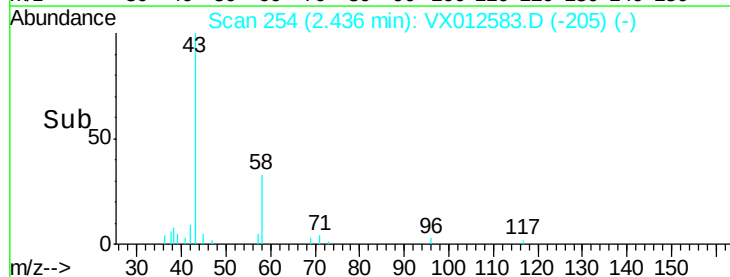
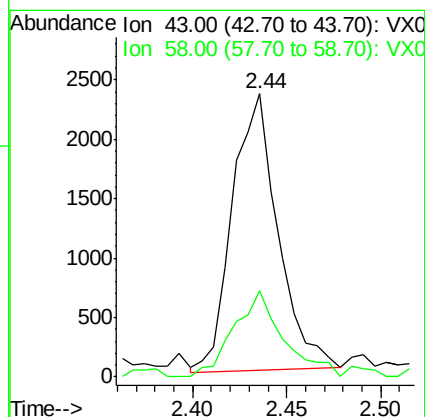
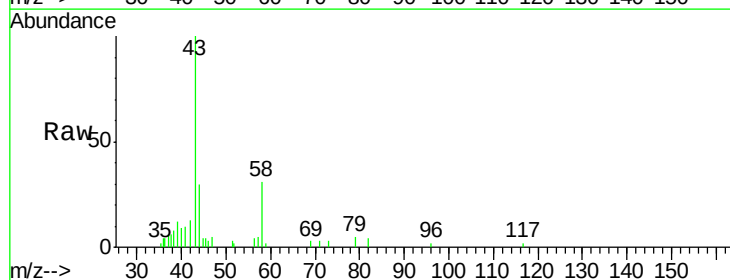
Acq: 21 Sep 2019 02:06

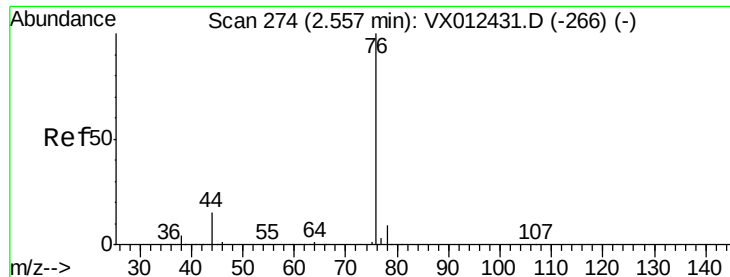
Tgt Ion: 43 Resp: 3900

Ion Ratio Lower Upper

43 100

58 31.7 23.3 34.9





#17

Carbon Disulfide

Concen: 1.908 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

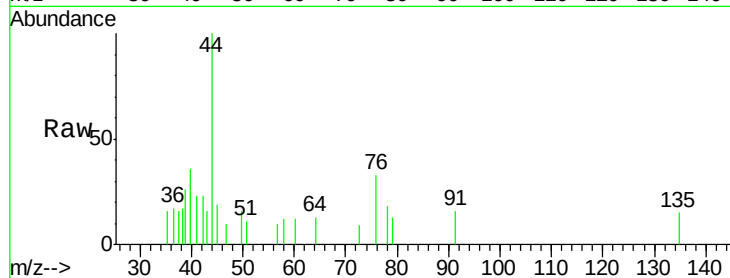
KY038PS027-190916

Tot Ion: 76 Resp: 167

Ion Ratio Lower Upper

76 100

78 54.8 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

150

100

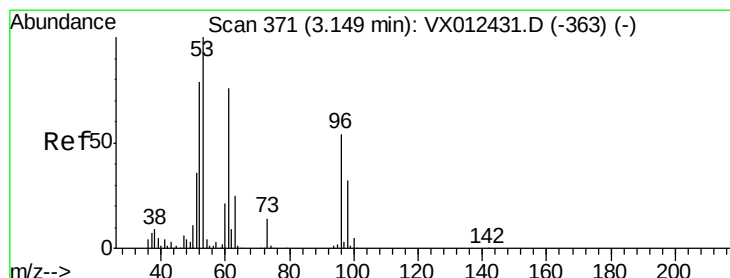
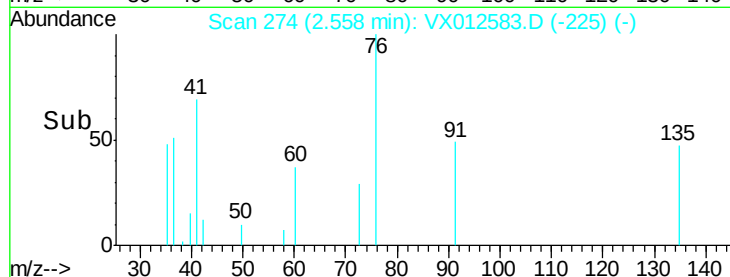
50

0

2.55

2.60

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.760 ug/l

RT: 3.15 min Scan# 372

Delta R.T. 0.01 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

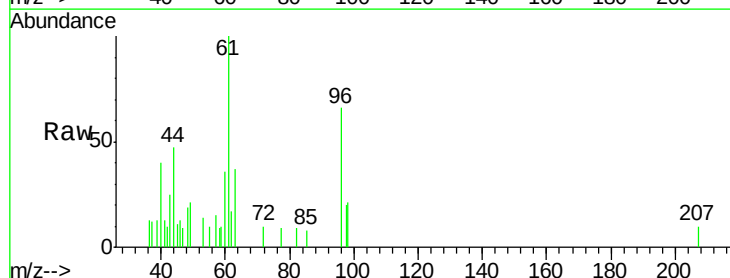
Tgt Ion: 96 Resp: 881

Ion Ratio Lower Upper

96 100

61 152.0 112.0 168.0

98 62.1 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

1000

800

600

400

200

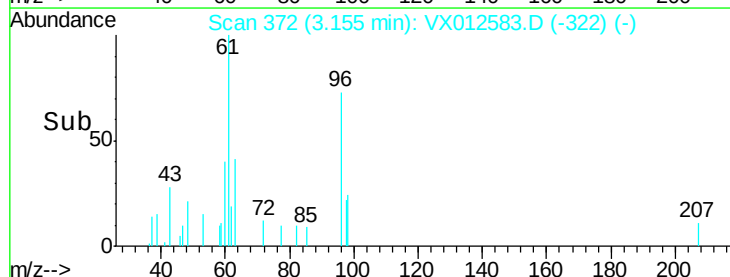
0

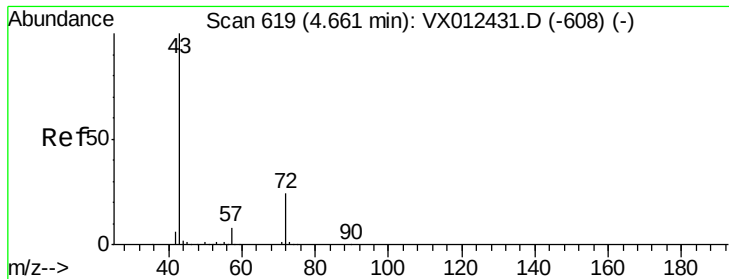
3.10

3.15

3.20

Time-->





#25

2-Butanone

Concen: 0.503 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

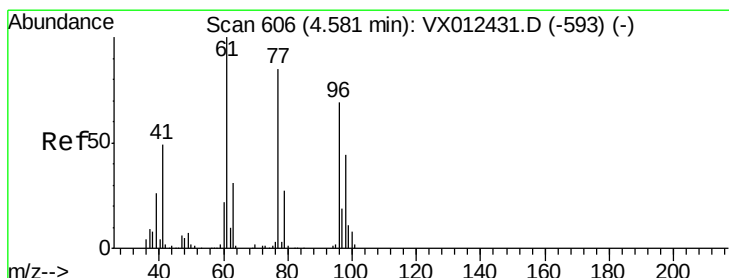
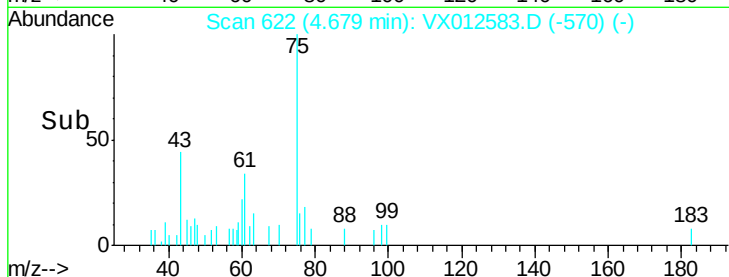
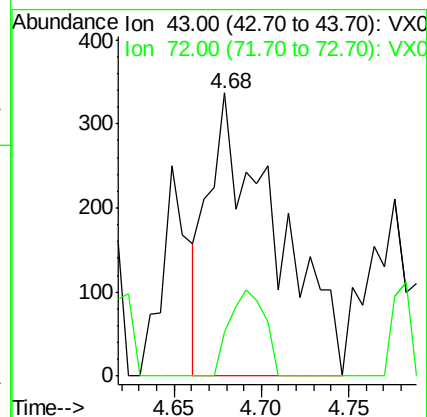
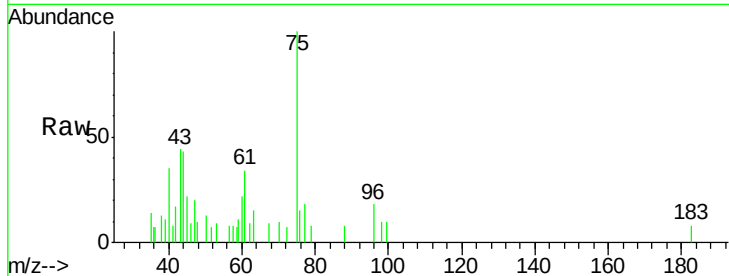
KY038PS027-190916

Tot Ion: 43 Resp: 888

Ion Ratio Lower Upper

43 100

72 15.7 19.2 28.8#



#27

cis-1,2-Dichloroethene

Concen: 52.733 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

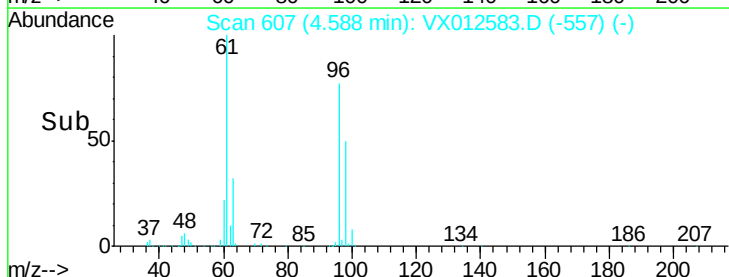
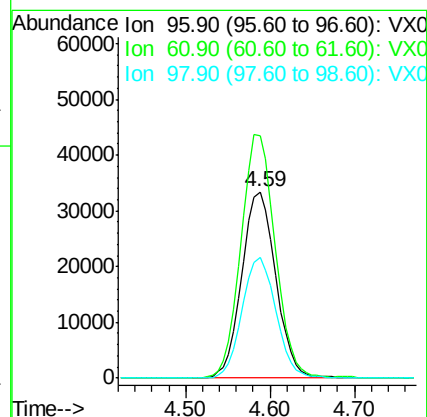
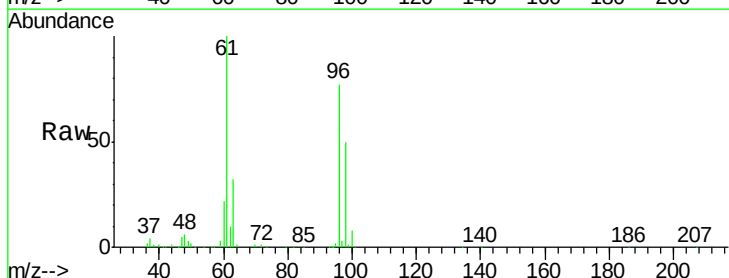
Tgt Ion: 96 Resp: 91319

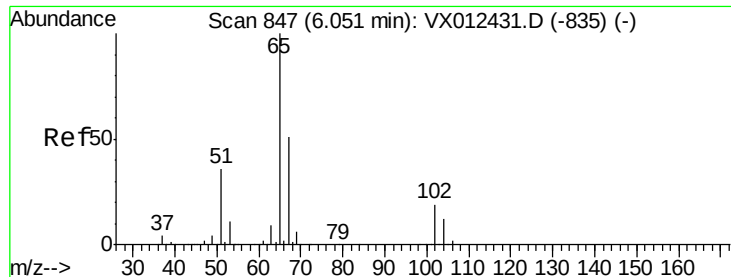
Ion Ratio Lower Upper

96 100

61 131.4 0.0 319.4

98 64.6 0.0 130.6

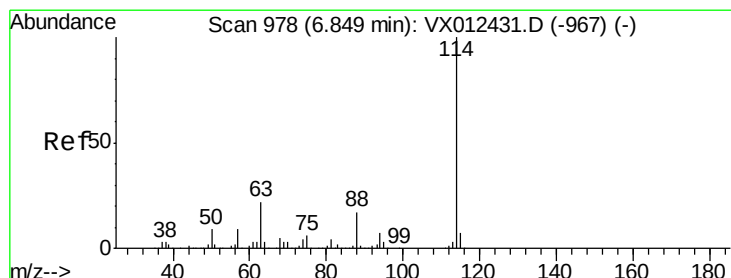
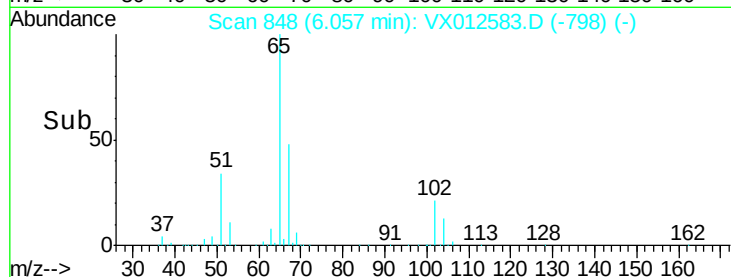
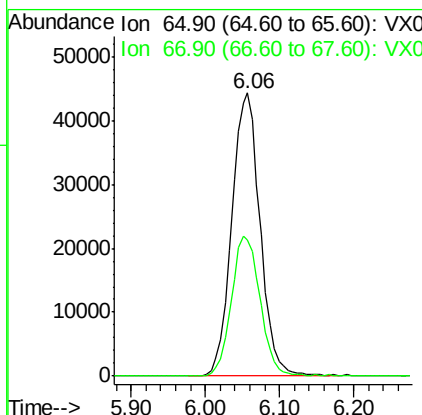
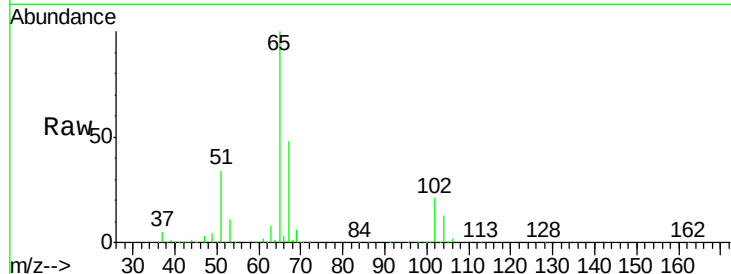




#33
 1,2-Dichloroethane-d4
 Concen: 46.327 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX012583.D
 Acq: 21 Sep 2019 02:06

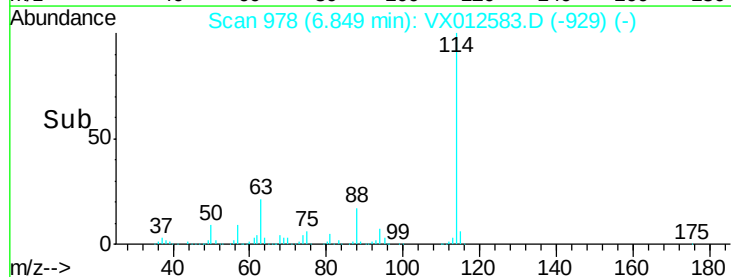
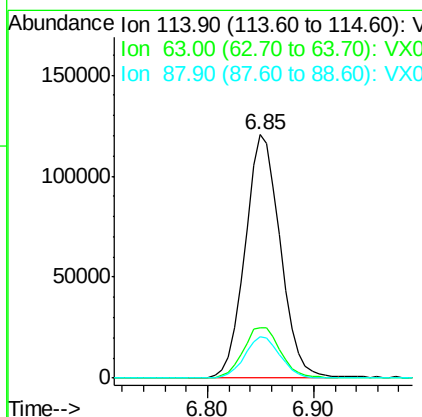
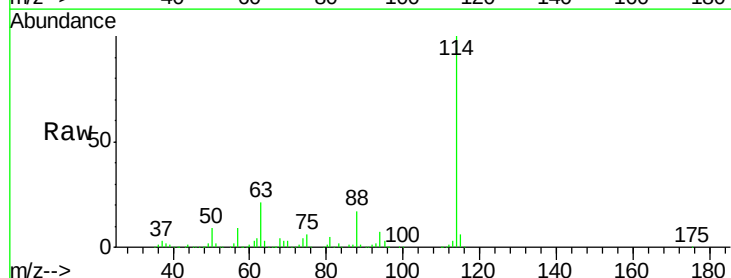
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190916

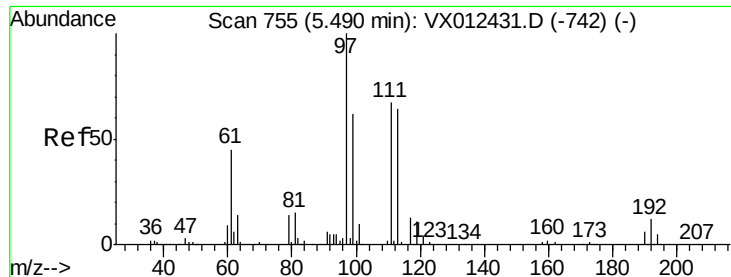
Tot Ion: 65 Resp: 117894
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012583.D
 Acq: 21 Sep 2019 02:06

Tgt Ion: 114 Resp: 279795
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 43.2
 88 16.9 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.341 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190916

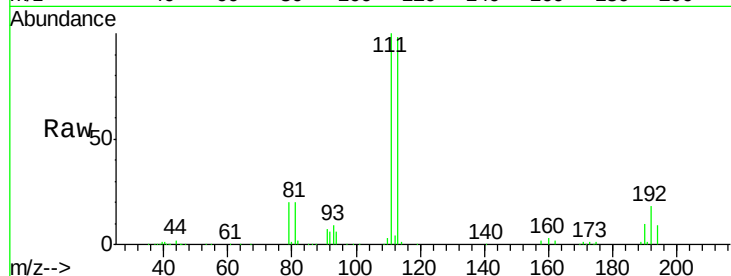
Tot Ion:113 Resp: 85251

Ion Ratio Lower Upper

113 100

111 102.3 83.4 125.2

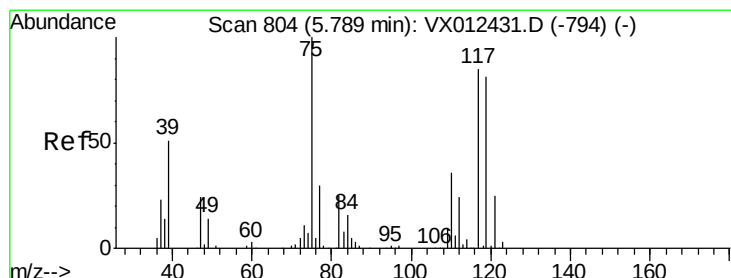
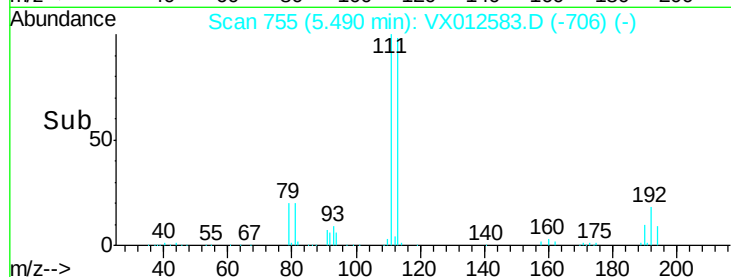
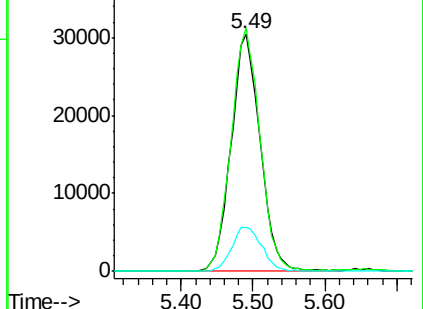
192 19.3 14.4 21.6



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: 8.592 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

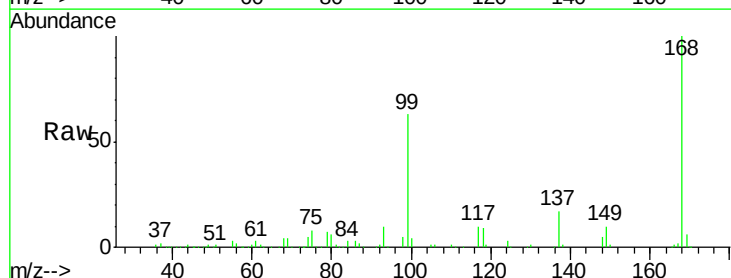
Tgt Ion: 75 Resp: 14610

Ion Ratio Lower Upper

75 100

110 0.0 16.7 50.0#

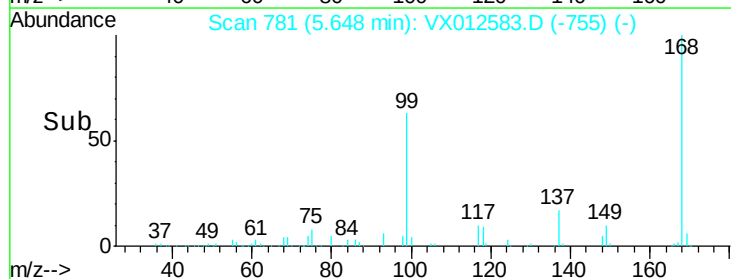
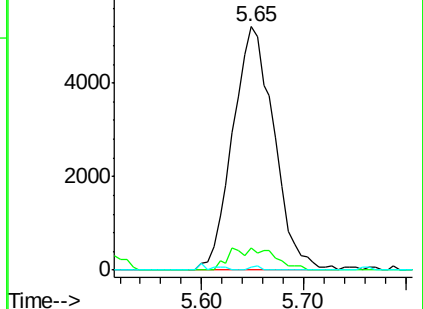
77 0.4 24.2 36.2#

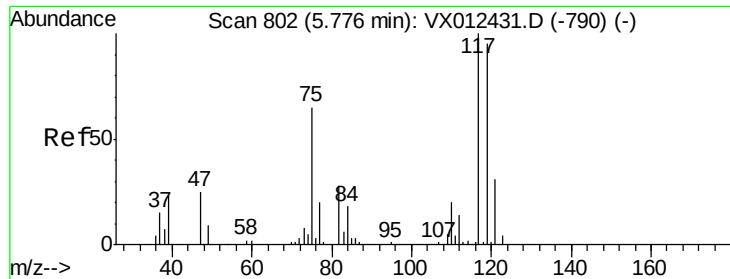


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 8.764 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190916

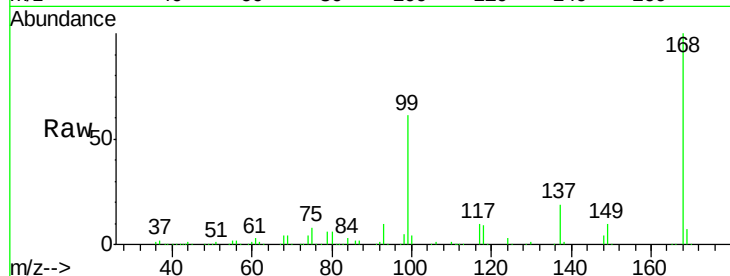
Tot Ion:117 Resp: 18534

Ion Ratio Lower Upper

117 100

119 4.9 75.7 113.5#

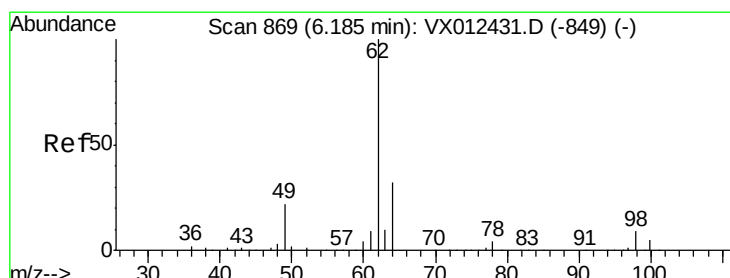
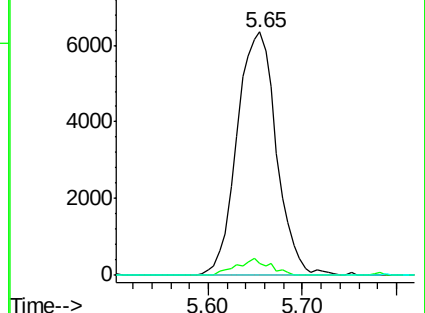
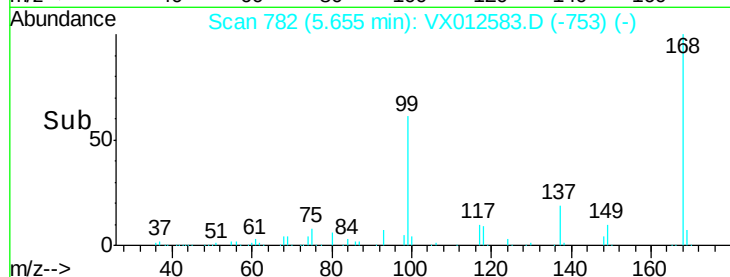
121 0.0 24.2 36.4#



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



#42

1,2-Dichloroethane

Concen: 0.254 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX012583.D

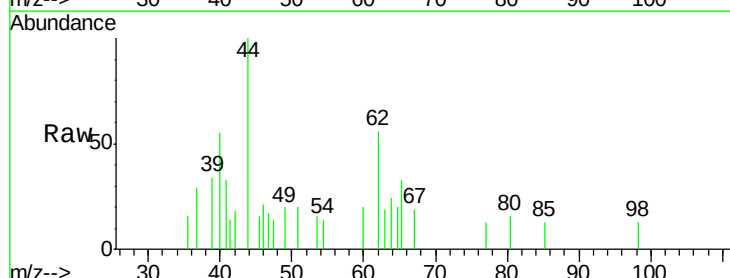
Acq: 21 Sep 2019 02:06

Tgt Ion: 62 Resp: 637

Ion Ratio Lower Upper

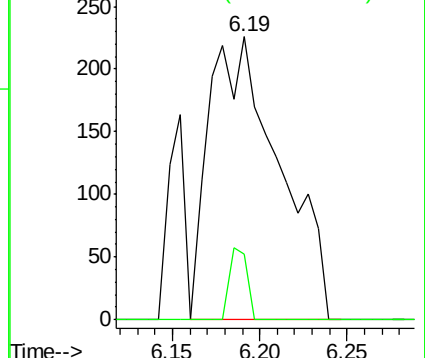
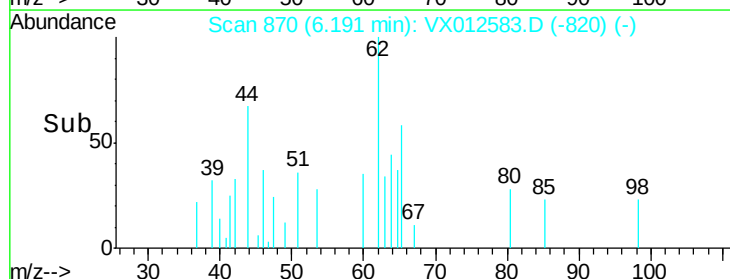
62 100

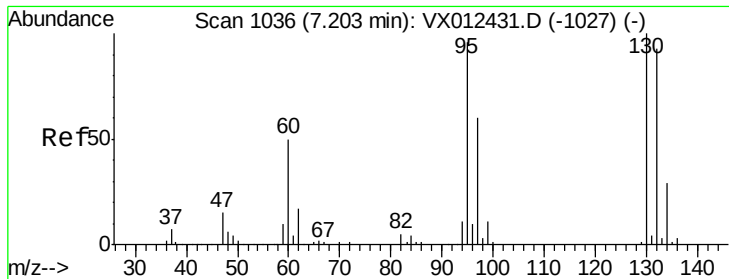
98 6.3 0.0 17.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

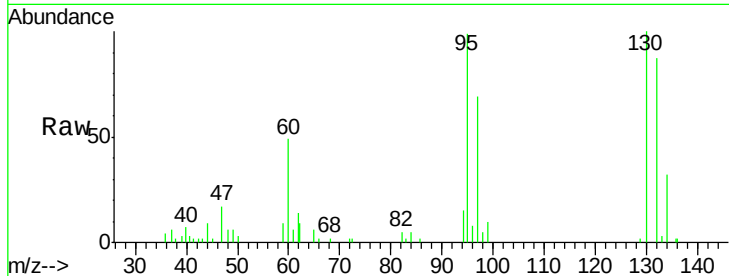




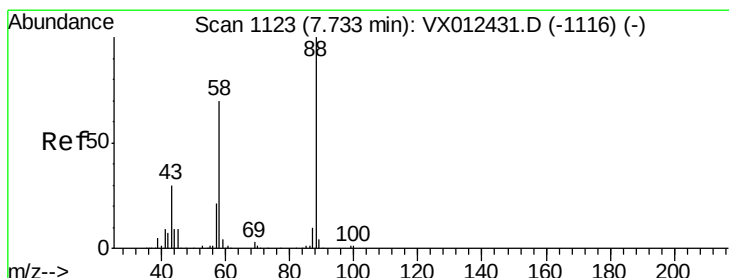
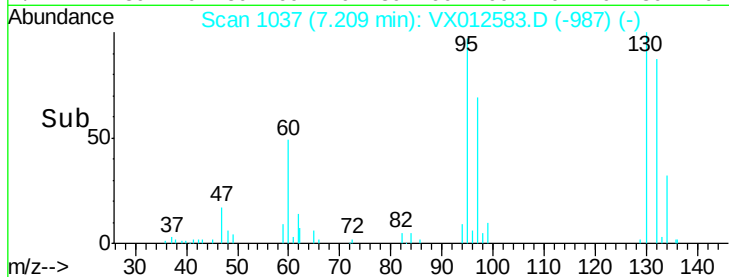
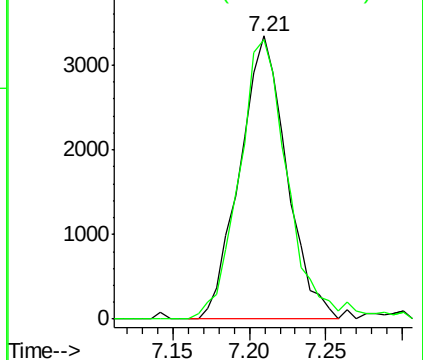
#44
 Trichloroethene
 Concen: 5.010 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. 0.01 min
 Lab File: VX012583.D
 Acq: 21 Sep 2019 02:06

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190916

Tot Ion:130 Resp: 7127
 Ion Ratio Lower Upper
 130 100
 95 99.0 0.0 193.0

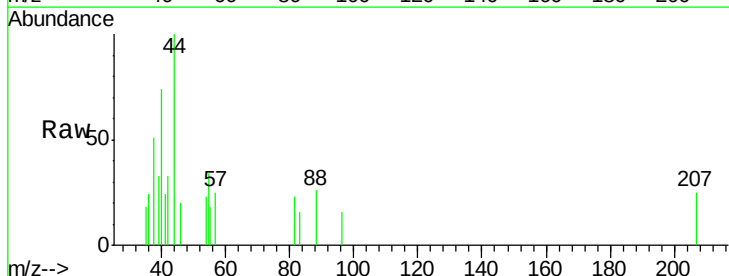


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

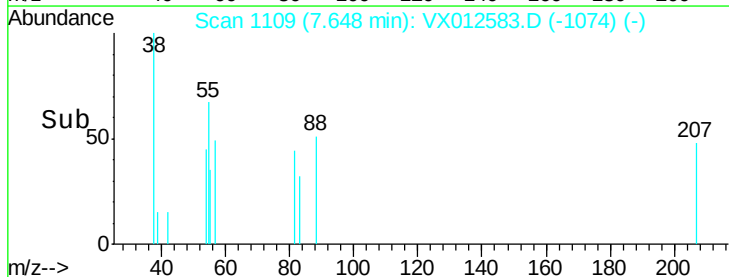
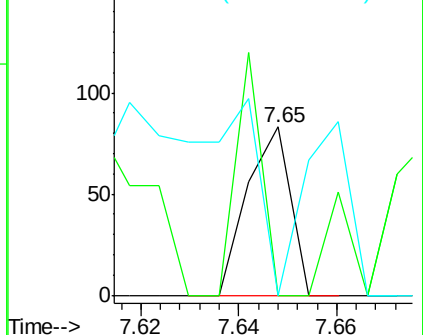


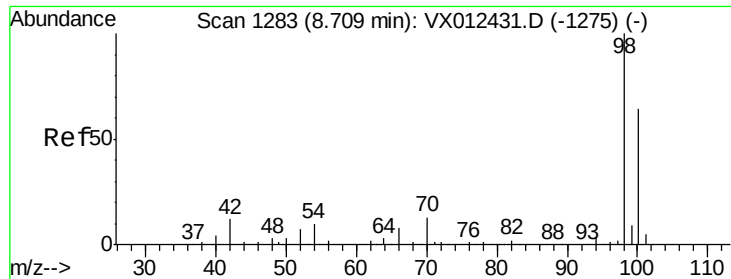
#49
 1,4-Dioxane
 Concen: 0.949 ug/l
 RT: 7.65 min Scan# 1109
 Delta R.T. -0.09 min
 Lab File: VX012583.D
 Acq: 21 Sep 2019 02:06

Tgt Ion: 88 Resp: 51
 Ion Ratio Lower Upper
 88 100
 43 86.3 29.4 44.0#
 58 458.8 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: 51.131 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

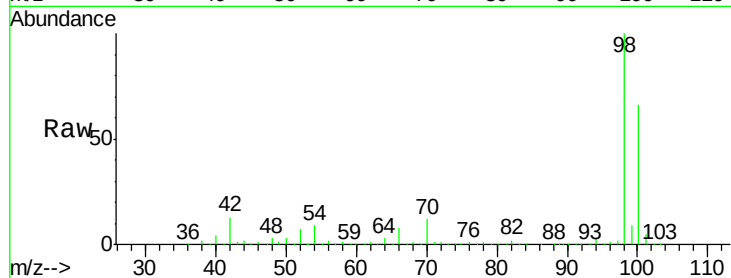
KY038PS027-190916

Tot Ion: 98 Resp: 320503

Ion Ratio Lower Upper

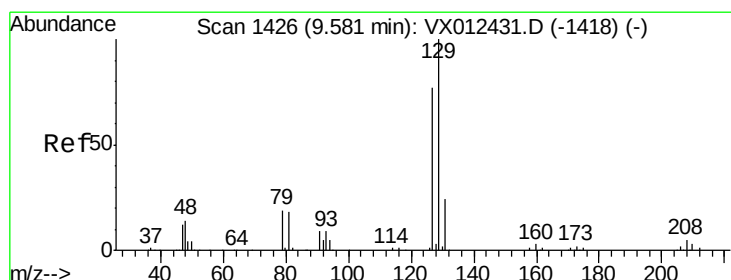
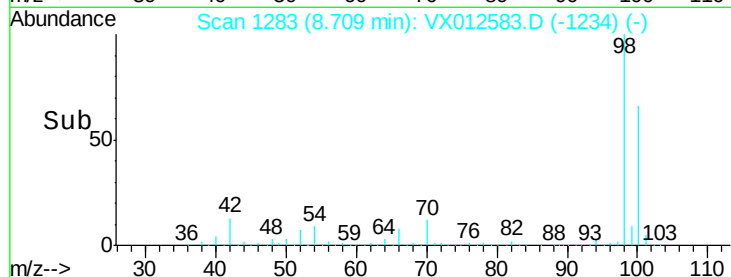
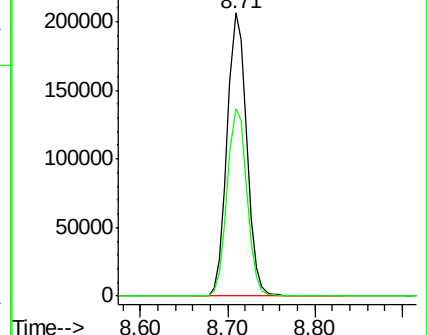
98 100

100 67.0 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) (-)



#60

Dibromochloromethane

Concen: 2.667 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012583.D

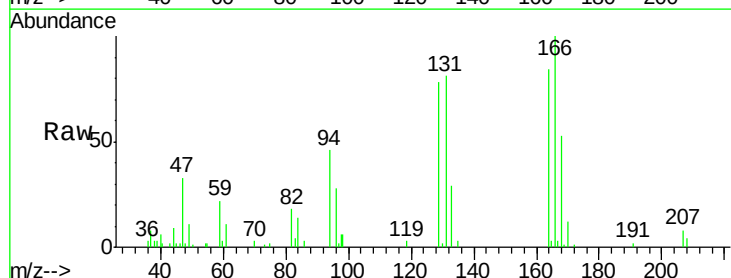
Acq: 21 Sep 2019 02:06

Tgt Ion: 129 Resp: 4876

Ion Ratio Lower Upper

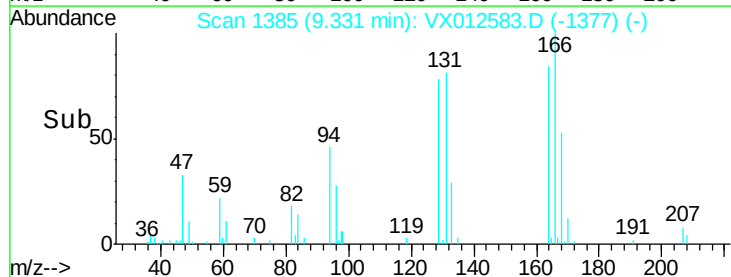
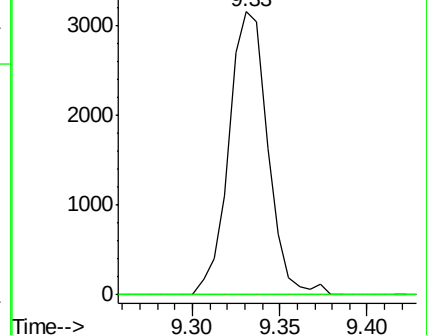
129 100

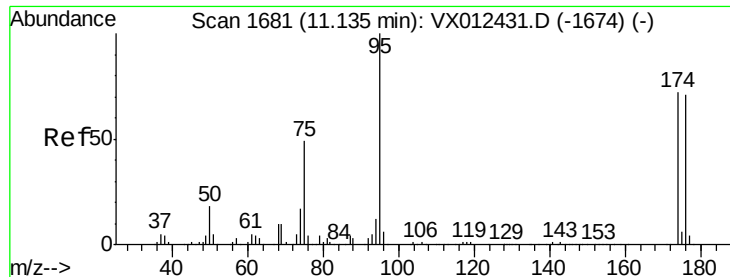
127 0.0 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): VX012431.D (-1418) (-)

Ion 126.80 (126.50 to 127.50): VX012431.D (-1418) (-)





#62

4-Bromofluorobenzene

Concen: 42.793 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190916

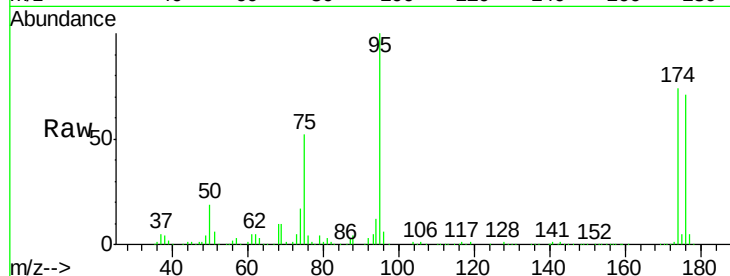
Tot Ion: 95 Resp: 111376

Ion Ratio Lower Upper

95 100

174 71.7 0.0 140.0

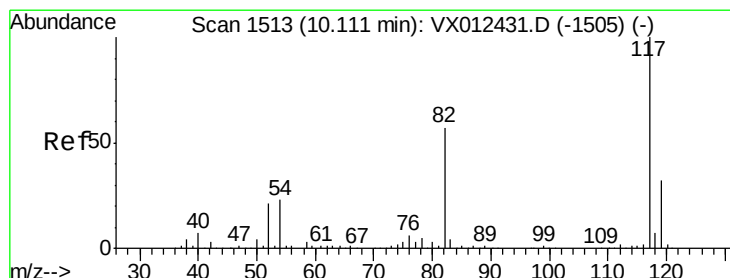
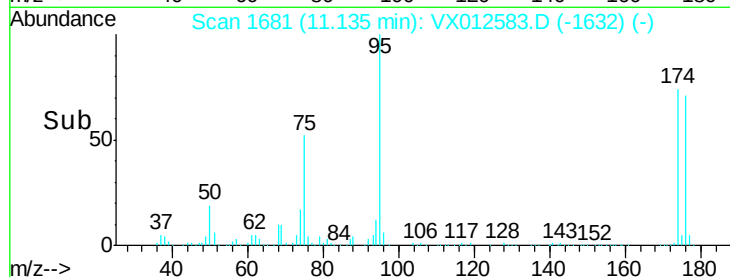
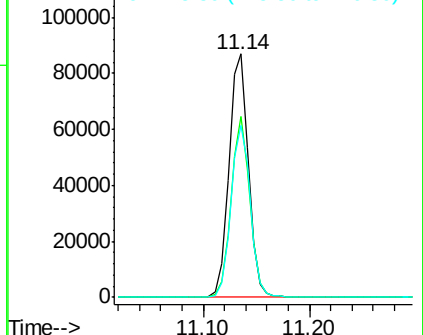
176 70.3 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

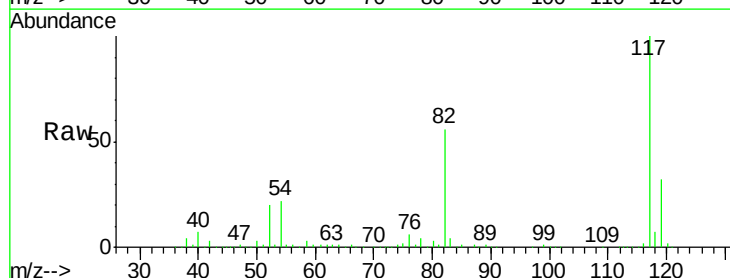
Tgt Ion: 117 Resp: 234301

Ion Ratio Lower Upper

117 100

82 55.8 45.9 68.9

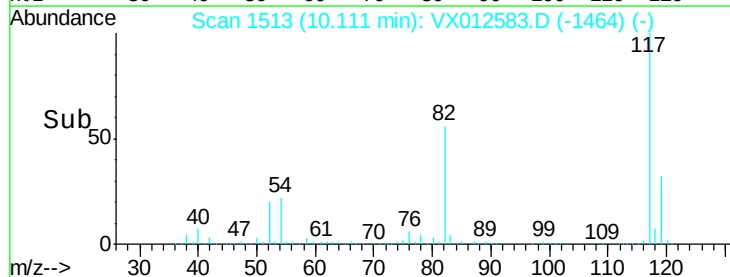
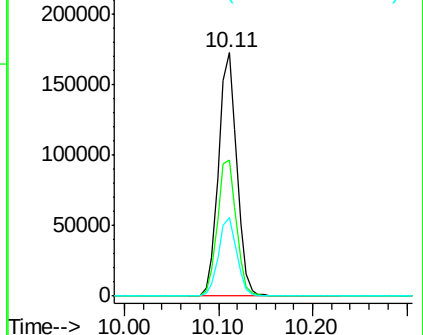
119 32.3 25.3 37.9

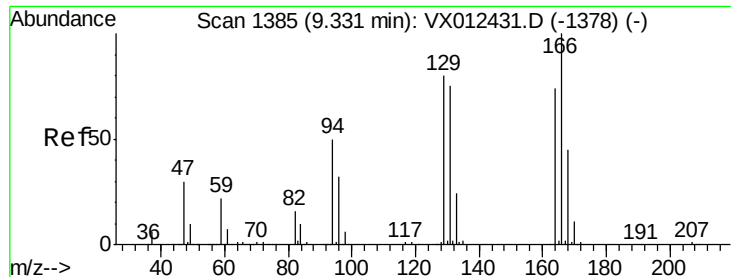


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 4.737 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190916

Tot Ion:164 Resp: 5086

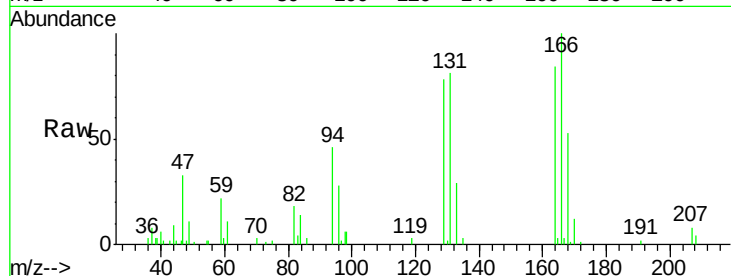
Ion Ratio Lower Upper

164 100

166 119.5 107.8 161.6

129 92.7 86.2 129.2

131 96.6 80.4 120.6

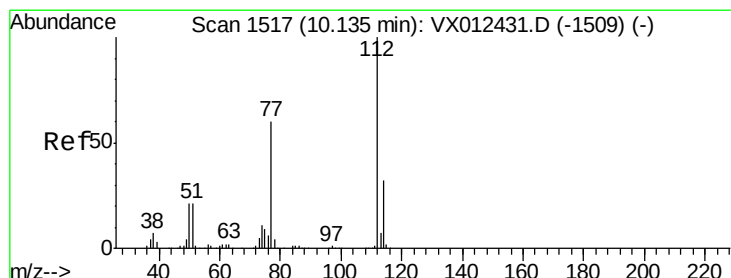
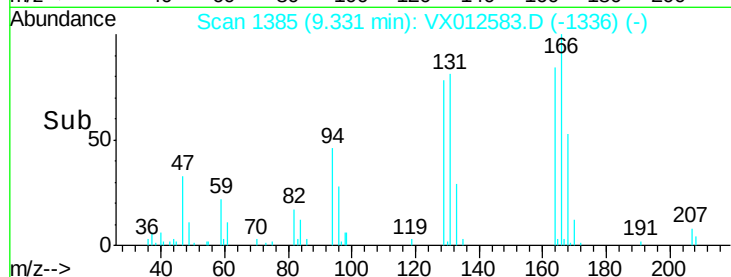
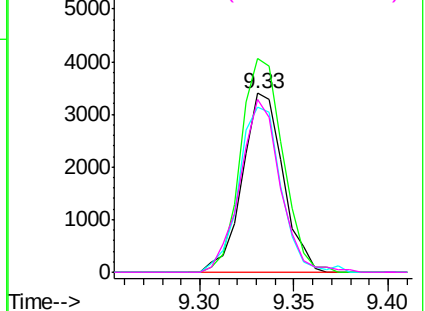


Abundance Ion 163.80 (163.50 to 164.50): V

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



#65

Chlorobenzene

Concen: 0.227 ug/l

RT: 10.13 min Scan# 1516

Delta R.T. -0.01 min

Lab File: VX012583.D

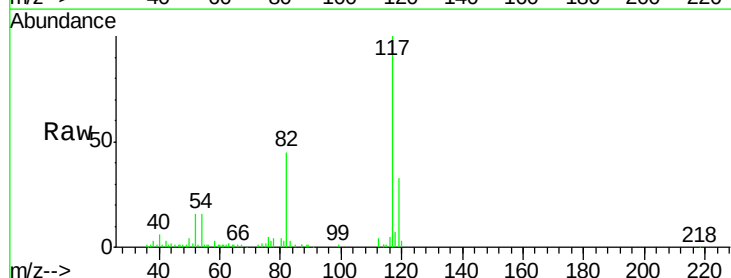
Acq: 21 Sep 2019 02:06

Tgt Ion:112 Resp: 876

Ion Ratio Lower Upper

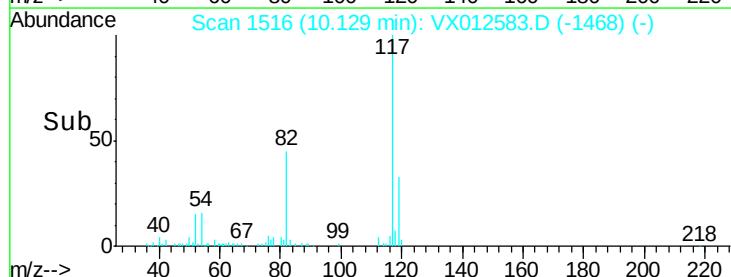
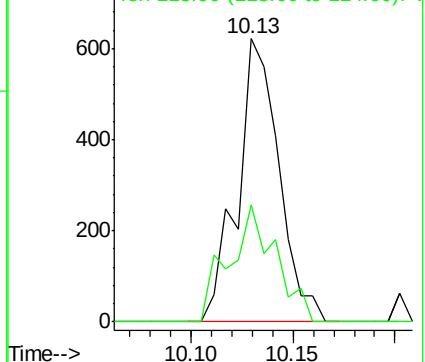
112 100

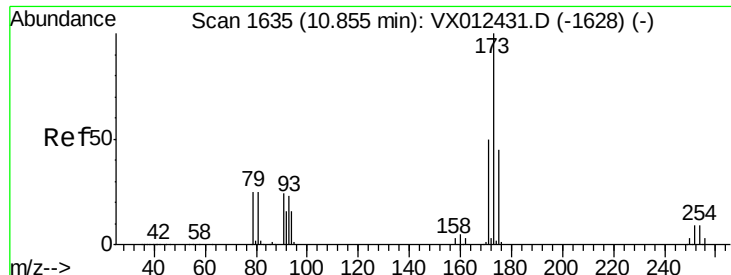
114 41.5 25.4 38.0#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 2.887 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.04 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

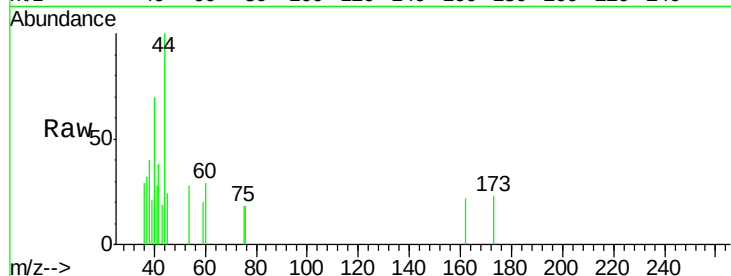
Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190916

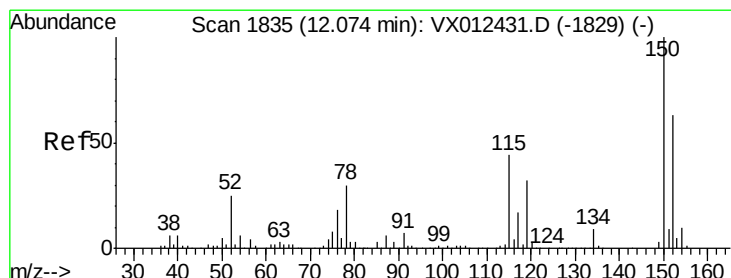
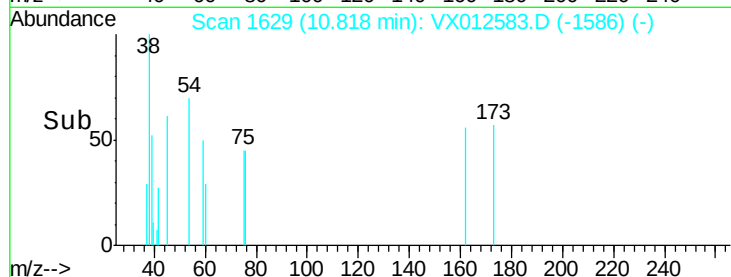
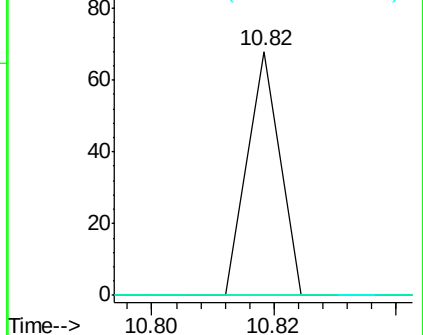
Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	23.7	71.1#
254	0.0	0.1	0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

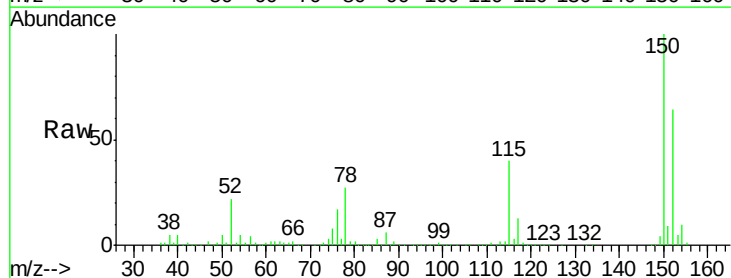
RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

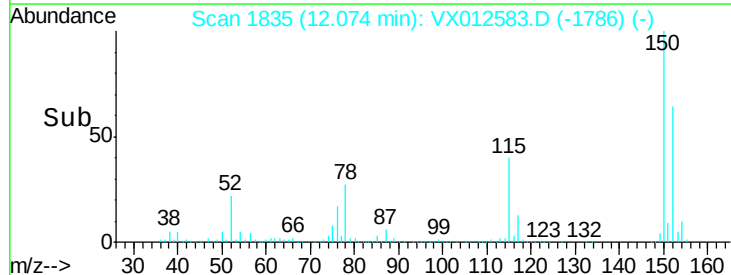
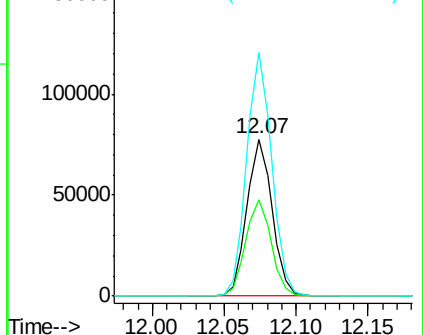
Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.0	44.1	132.3
150	153.9	0.0	343.8

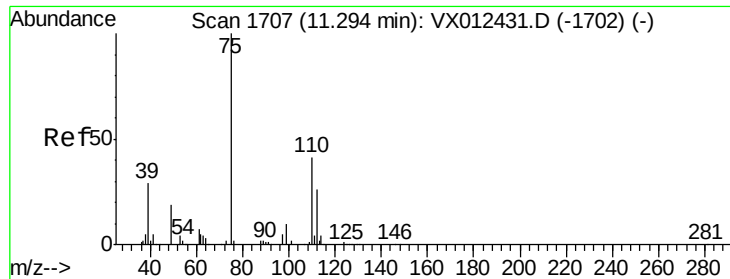


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.962 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Instrument :

MSVOA_X

ClientSampleId :

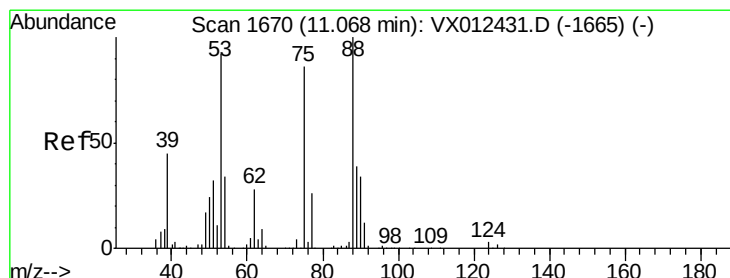
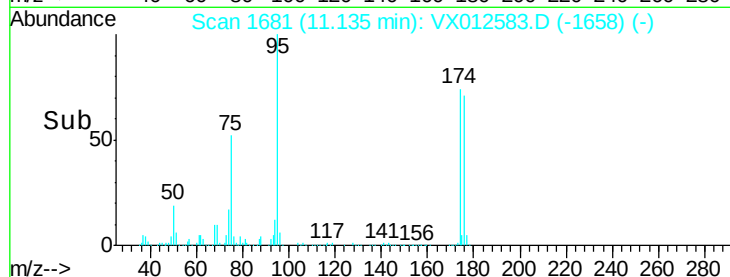
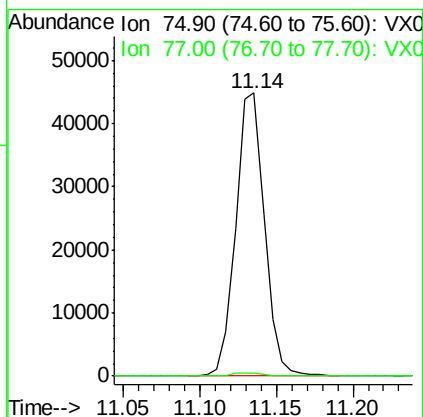
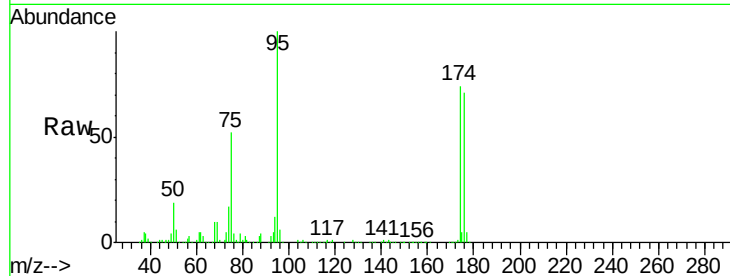
KY038PS027-190916

Tot Ion: 75 Resp: 58349

Ion Ratio Lower Upper

75 100

77 1.5 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.533 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012583.D

Acq: 21 Sep 2019 02:06

Tgt Ion: 75 Resp: 58349

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.1 36.3 54.5#

