

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062581.D
 Acq On : 14 May 2019 11:02
 Operator : FY/SY
 Sample : K2836-01
 Misc : 5.41g/5mL/MSVOA F/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

Quant Time: May 14 11:27:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	1577	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	748	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.93	117	60	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.58	152	66	50.00	ug/l	-0.04

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.09	65	176	11.81	ug/l	0.07
Spiked Amount	50.000		Recovery	=	23.62%	
35) Dibromofluoromethane	4.30	113	62	10.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	20.80%	
50) Toluene-d8	7.74	98	111	7.69	ug/l	0.03
Spiked Amount	50.000		Recovery	=	15.38%	
62) 4-Bromofluorobenzene	11.49	95	74	11.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	80	4.383	ug/l #	41
3) Chloromethane	1.16	50	151	12.544	ug/l #	42
4) Vinyl Chloride	1.14	62	131	10.911	ug/l #	42
5) Bromomethane	1.40	94	77	6.306	ug/l #	3
6) Chloroethane	1.46	64	233	38.600	ug/l #	41
7) Trichlorofluoromethane	1.71	101	70	2.810	ug/l #	20
8) Diethyl Ether	1.63	74	75	19.897	ug/l	68
9) 1,1,2-Trichlorotrifluoroet	1.74	101	107	7.523	ug/l #	41
10) Methyl Iodide	2.09	142	67	2.859	ug/l #	1
11) Tert butyl alcohol	2.76	59	60	71.234	ug/l #	70
12) 1,1-Dichloroethene	1.86	96	241	19.933	ug/l #	1
13) Acrolein	2.14	56	108	203.511	ug/l #	13
14) Allyl chloride	2.21	41	414	38.763	ug/l #	2
15) Acrylonitrile	3.09	53	72	45.126	ug/l #	10
16) Acetone	2.35	43	183	60.700	ug/l #	62
17) Carbon Disulfide	1.87	76	83	3.148	ug/l #	71
18) Methyl Acetate	2.47	43	80	12.182	ug/l #	58
19) Methyl tert-butyl Ether	2.54	73	234	9.376	ug/l #	61
20) Methylene Chloride	2.24	84	89	8.159	ug/l #	13
21) trans-1,2-Dichloroethene	2.43	96	319	27.692	ug/l #	1
22) Diisopropyl ether	2.94	45	302	9.047	ug/l #	47
23) Vinyl Acetate	3.36	43	143	9.612	ug/l #	1
24) 1,1-Dichloroethane	2.92	63	80	3.965	ug/l #	1
25) 2-Butanone	4.54	43	67	17.689	ug/l #	60
26) 2,2-Dichloropropane	3.77	77	365	32.397	ug/l #	58
27) cis-1,2-Dichloroethene	3.64	96	64	4.445	ug/l #	1
28) Bromochloromethane	3.88	49	80	8.744	ug/l #	1
29) Tetrahydrofuran	4.23	42	229	131.551	ug/l	97
30) Chloroform	4.20	83	180	6.604	ug/l #	19
31) Cyclohexane	3.91	56	75	4.658	ug/l #	16
32) 1,1,1-Trichloroethane	4.29	97	66	2.825	ug/l #	22
36) 1,1-Dichloropropene	4.44	75	60	9.338	ug/l #	1
37) Ethyl Acetate	4.33	43	164	67.374	ug/l #	73
38) Carbon Tetrachloride	4.06	117	98	12.626	ug/l #	14

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.67	83	66	10.242	ug/l #	23
40) Benzene	4.86	78	63	4.452	ug/l #	1
41) Methacrylonitrile	4.95	41	270	175.242	ug/l #	38
42) 1,2-Dichloroethane	5.13	62	73	12.336	ug/l #	1
43) Isopropyl Acetate	7.16	43	205	70.141	ug/l #	48
44) Trichloroethene	5.71	130	63	12.121	ug/l #	2
45) 1,2-Dichloropropane	6.44	63	143	44.619	ug/l #	43
47) Bromodichloromethane	6.45	83	215	32.362	ug/l #	27
48) Methyl methacrylate	6.90	41	193	93.443	ug/l #	17
49) 1,4-Dioxane	7.07	88	60	2848.686	ug/l #	1
51) 4-Methyl-2-Pentanone	8.44	43	132	59.603	ug/l #	40
52) Toluene	7.73	92	79	9.050	ug/l #	1
53) t-1,3-Dichloropropene	8.54	75	143	28.459	ug/l #	43
54) cis-1,3-Dichloropropene	7.50	75	76	12.996	ug/l #	22
55) 1,1,2-Trichloroethane	8.66	97	65	23.457	ug/l #	14
56) Ethyl methacrylate	8.80	69	89	30.426	ug/l #	1
57) 1,3-Dichloropropane	8.88	76	153	36.553	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.39	63	71	80.736	ug/l #	42
59) 2-Hexanone	9.42	43	120	78.347	ug/l #	91
60) Dibromochloromethane	8.91	129	102	22.506	ug/l #	11
61) 1,2-Dibromoethane	9.23	107	59	18.116	ug/l #	3
67) Ethyl Benzene	10.04	91	65	37.391	ug/l #	45
69) o-Xylene	10.72	106	63	90.899	ug/l #	1
70) Styrene	10.89	104	67	64.503	ug/l #	1
71) Bromoform	10.68	173	73	266.066	ug/l #	29
73) Isopropylbenzene	11.28	105	62	15.846	ug/l #	50
74) N-amyl acetate	11.42	43	210	249.997	ug/l #	80
75) 1,1,2,2-Tetrachloroethane	11.67	83	63	102.834	ug/l #	22
76) 1,2,3-Trichloropropane	11.88	75	67	143.345	ug/l #	100
77) Bromobenzene	11.67	156	60	58.429	ug/l #	1
78) n-propylbenzene	11.61	91	72	17.284	ug/l #	52
79) 2-Chlorotoluene	11.61	91	72	27.796	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.65	105	83	24.202	ug/l #	28
81) trans-1,4-Dichloro-2-buten	11.88	75	67	381.351	ug/l #	5
82) 4-Chlorotoluene	12.01	91	69	26.970	ug/l #	1
83) tert-Butylbenzene	12.26	119	80	22.196	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.25	105	69	20.559	ug/l #	3
85) sec-Butylbenzene	12.25	105	69	15.728	ug/l #	57
86) p-Isopropyltoluene	12.43	119	62	15.211	ug/l #	1
87) 1,3-Dichlorobenzene	12.76	146	69	36.791	ug/l #	25
88) 1,4-Dichlorobenzene	12.76	146	69	38.119	ug/l #	25
89) n-Butylbenzene	12.92	91	63	17.373	ug/l #	29
90) Hexachloroethane	12.72	117	63	61.904	ug/l #	3
91) 1,2-Dichlorobenzene	12.76	146	69	38.011	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.73	75	154	1122.043	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.23	180	60	36.850	ug/l #	11
94) Hexachlorobutadiene	14.04	225	63	51.914	ug/l #	18
95) Naphthalene	14.51	128	60	24.511	ug/l #	69

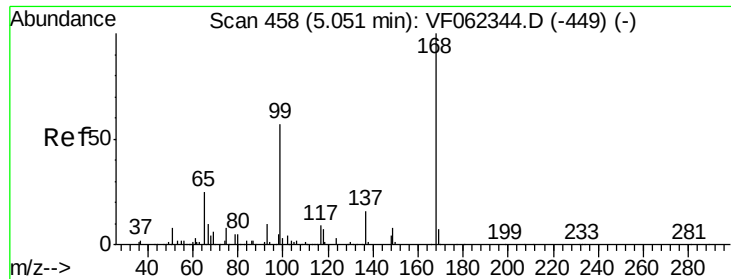
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

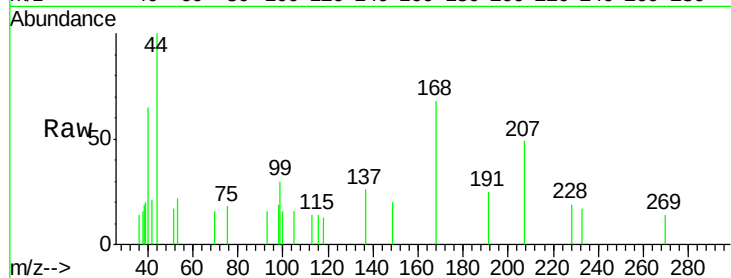
CULVER-CBTC-WC1-051019

Tot Ion:168 Resp: 1577

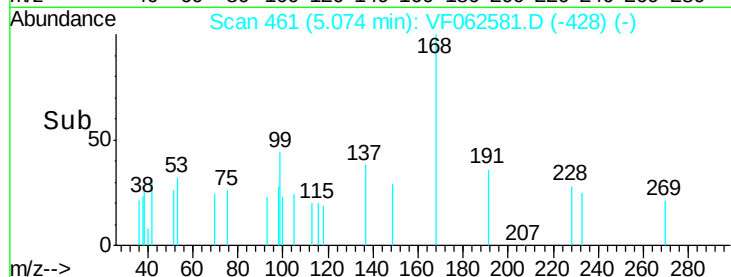
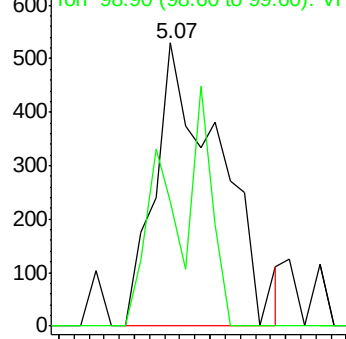
Ion Ratio Lower Upper

168 100

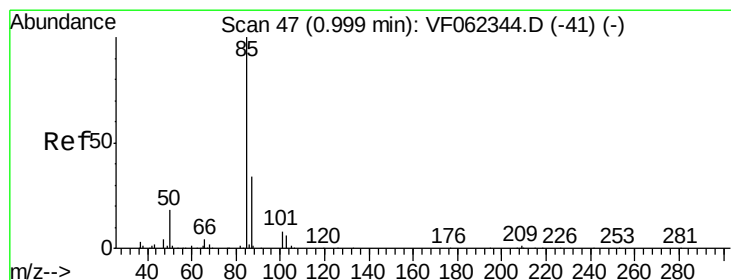
99 44.2 45.9 68.9#



Abundance Ion 167.90 (167.60 to 168.60): VF0



Time-->



#2

Dichlorodifluoromethane

Concen: 4.383 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062581.D

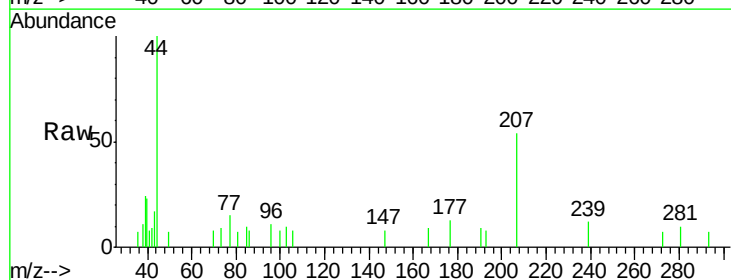
Acq: 14 May 2019 11:02

Tgt Ion: 85 Resp: 80

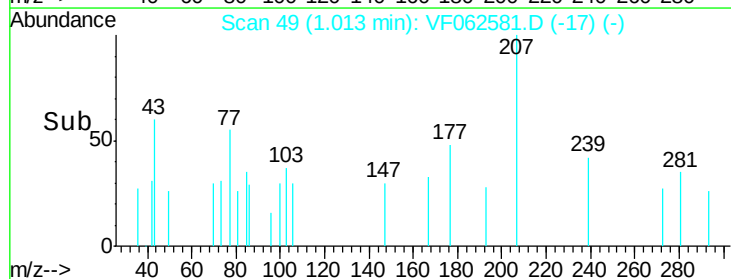
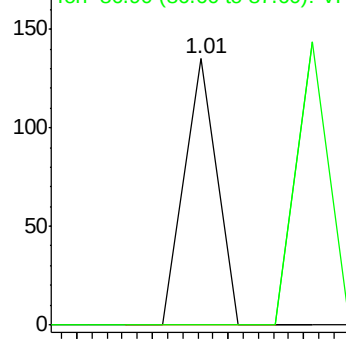
Ion Ratio Lower Upper

85 100

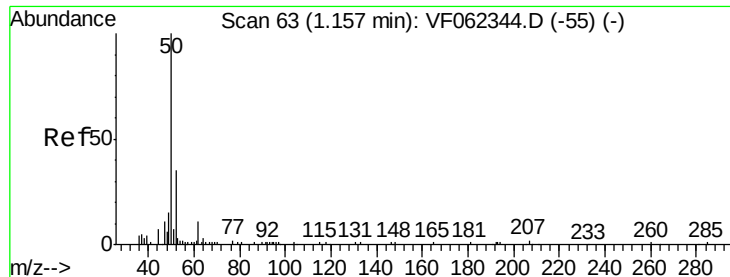
87 0.0 16.8 50.4#



Abundance Ion 84.90 (84.60 to 85.60): VF0



Time-->



#3

Chloromethane

Concen: 12.544 ug/l

RT: 1.16 min Scan# 64

Delta R.T. 0.00 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

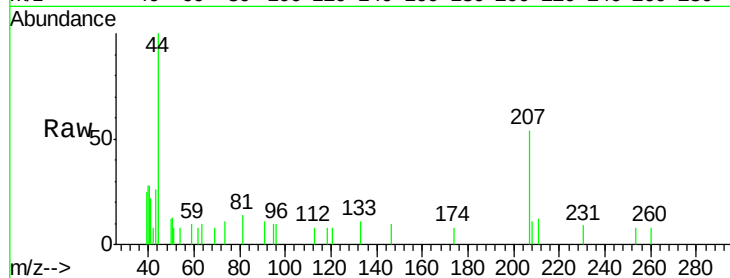
CULVER-CBTC-WC1-051019

Tot Ion: 50 Resp: 151

Ion Ratio Lower Upper

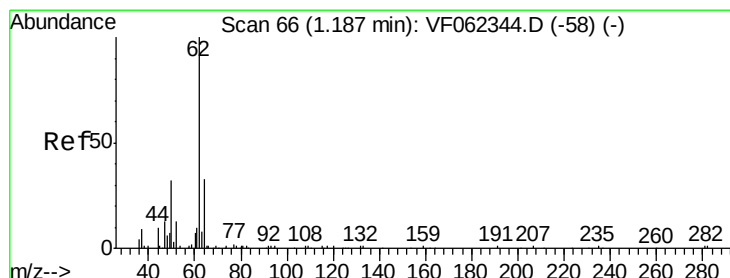
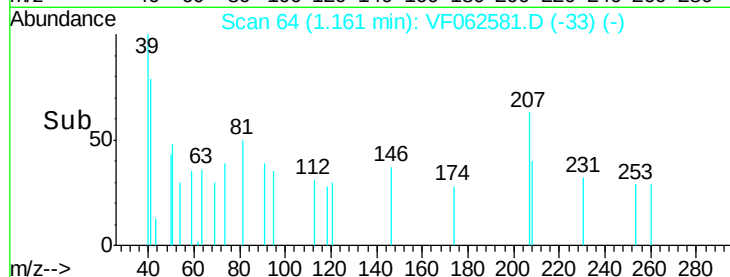
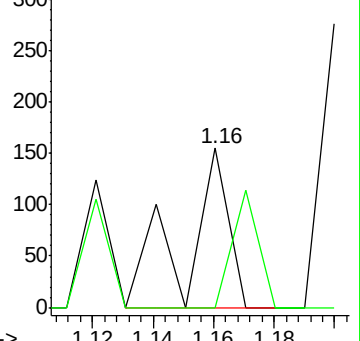
50 100

52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0



#4

Vinyl Chloride

Concen: 10.911 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.05 min

Lab File: VF062581.D

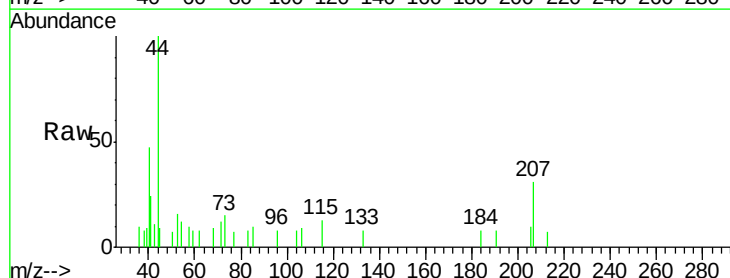
Acq: 14 May 2019 11:02

Tgt Ion: 62 Resp: 131

Ion Ratio Lower Upper

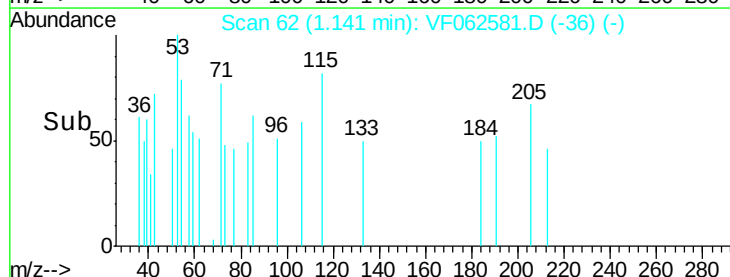
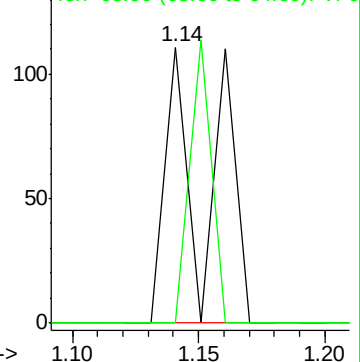
62 100

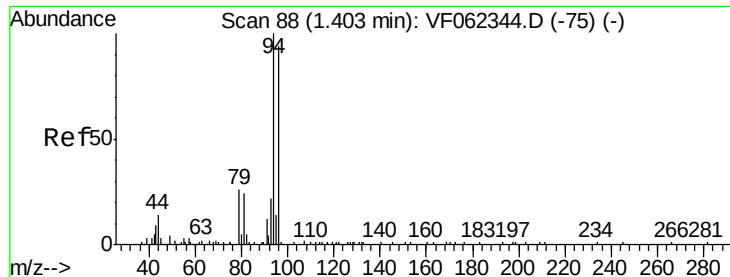
64 0.0 26.1 39.1#



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 63.90 (63.60 to 64.60): VF0





#5

Bromomethane

Concen: 6.306 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

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ClientSampleId :

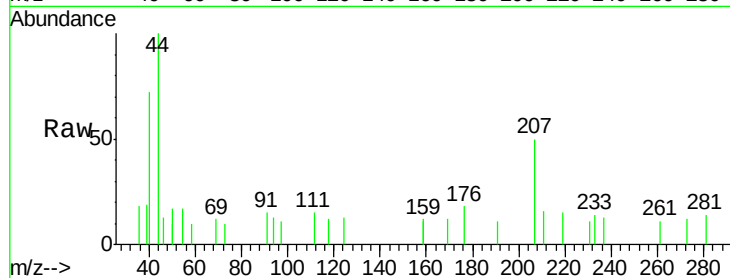
CULVER-CBTC-WC1-051019

Tot Ion: 94 Resp: 77

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

200

150

100

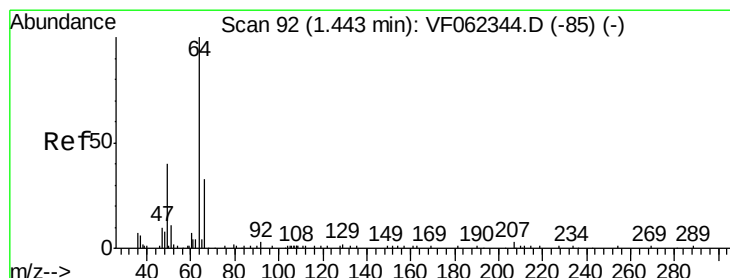
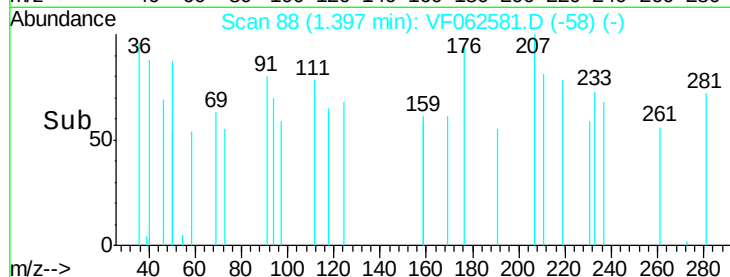
50

0

1.38

1.40

Time-->



#6

Chloroethane

Concen: 38.600 ug/l

RT: 1.46 min Scan# 94

Delta R.T. 0.01 min

Lab File: VF062581.D

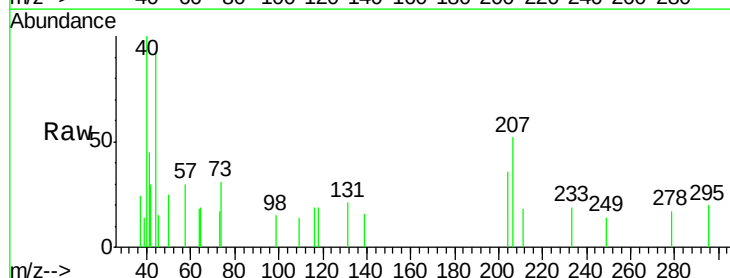
Acq: 14 May 2019 11:02

Tgt Ion: 64 Resp: 233

Ion Ratio Lower Upper

64 100

66 0.0 26.6 39.8#



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0

300

250

200

150

100

50

0

1.42

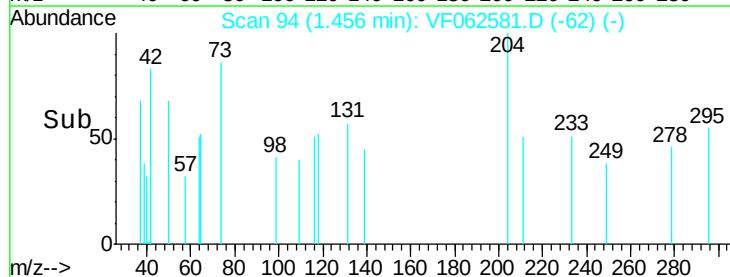
1.44

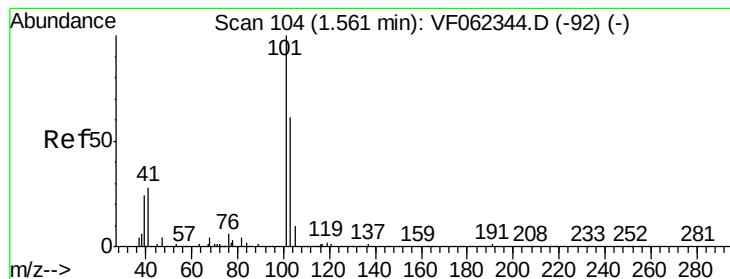
1.46

1.48

1.50

Time-->



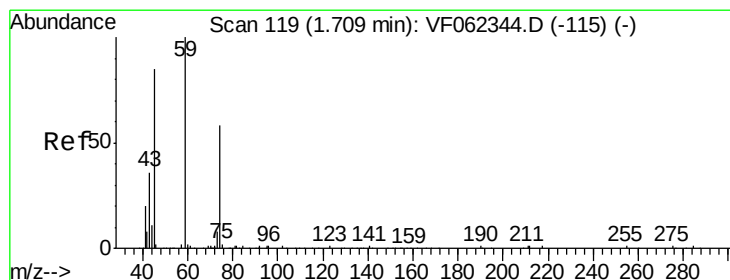
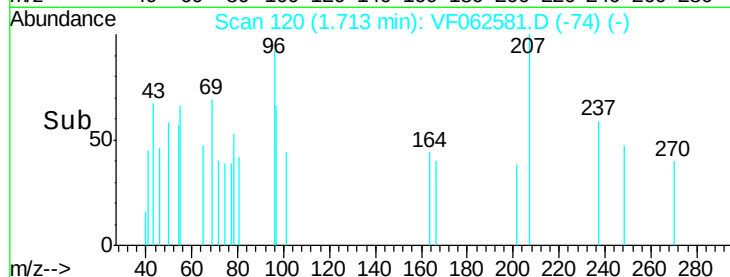
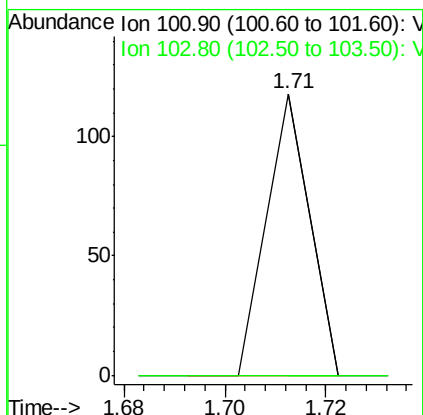
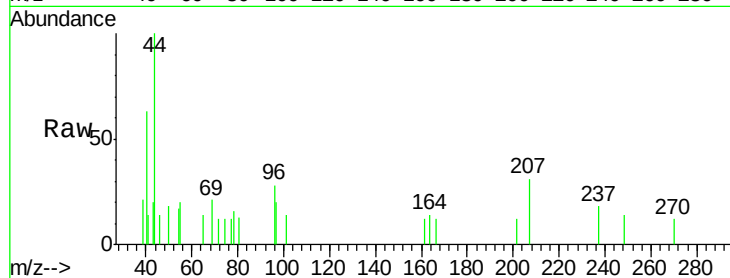


#7

Trichlorofluoromethane
Concen: 2.810 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.15 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

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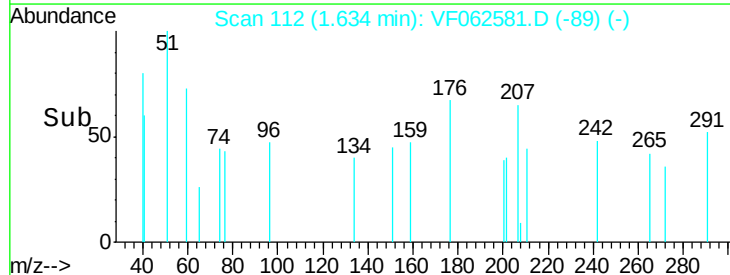
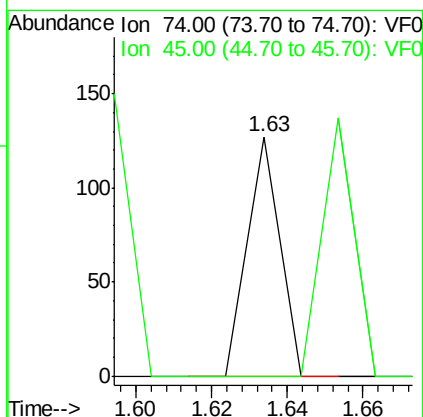
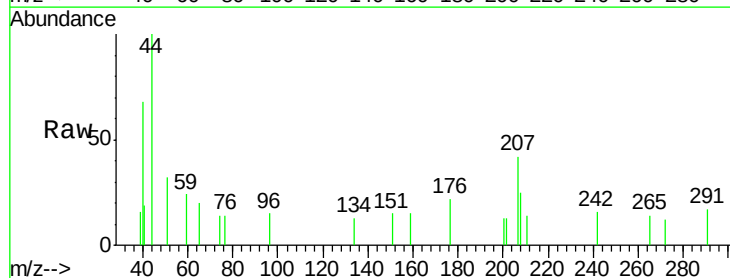
Tot Ion:101 Resp: 70
Ion Ratio Lower Upper
101 100
103 0.0 48.5 72.7#

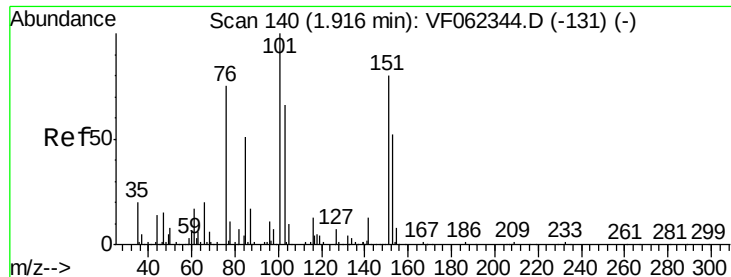


#8

Diethyl Ether
Concen: 19.897 ug/l
RT: 1.63 min Scan# 112
Delta R.T. -0.08 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

Tgt Ion: 74 Resp: 75
Ion Ratio Lower Upper
74 100
45 108.0 73.9 221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 7.523 ug/l

RT: 1.74 min Scan# 123

Delta R.T. -0.17 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

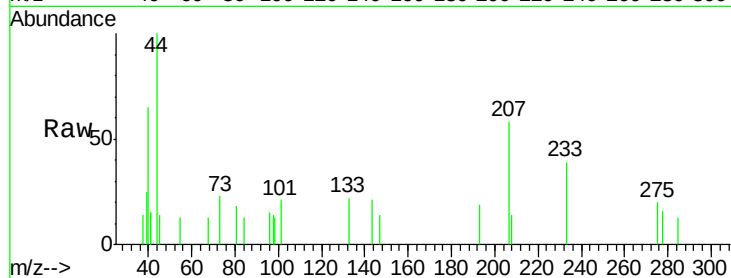
Tot Ion:101 Resp: 107

Ion Ratio Lower Upper

101 100

85 59.8 39.5 59.3#

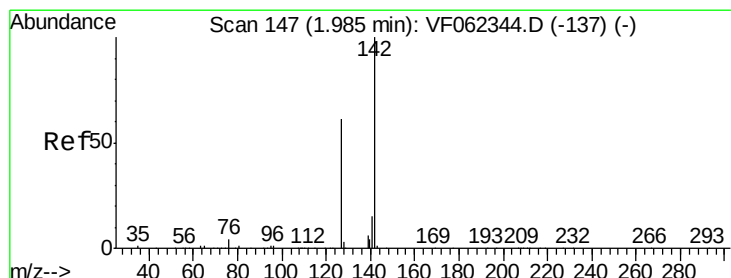
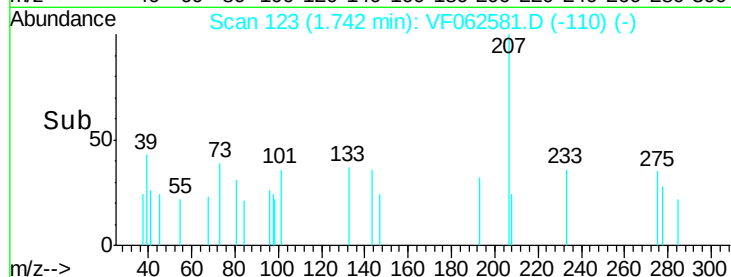
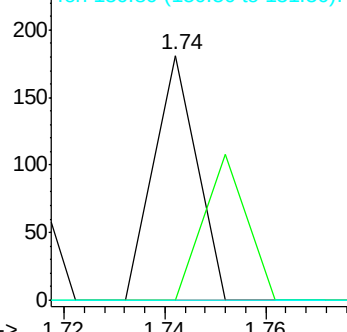
151 0.0 59.9 89.9#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.859 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.10 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

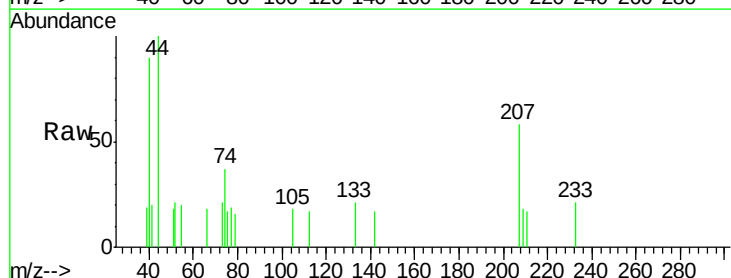
Tgt Ion:142 Resp: 67

Ion Ratio Lower Upper

142 100

127 0.0 48.4 72.6#

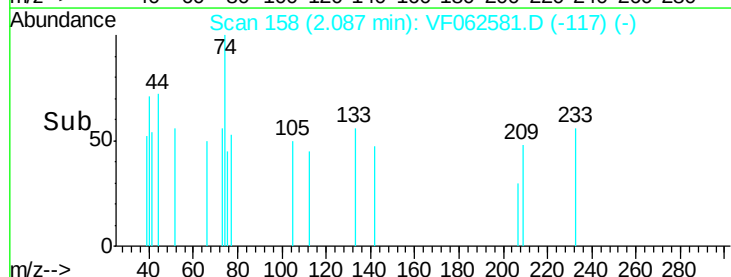
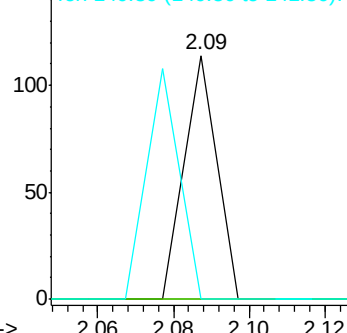
141 95.5 12.2 18.4#

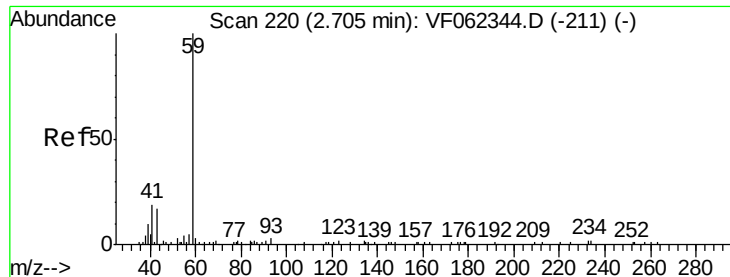


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



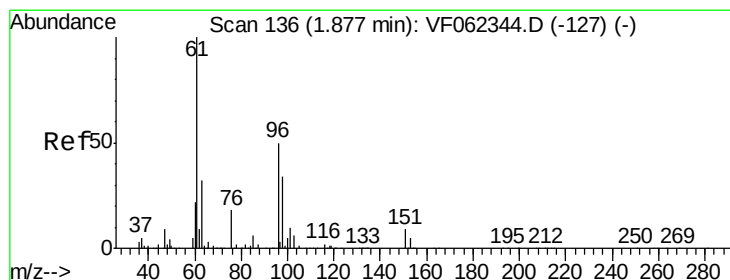
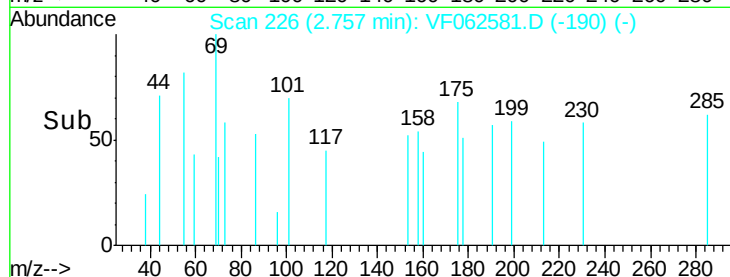
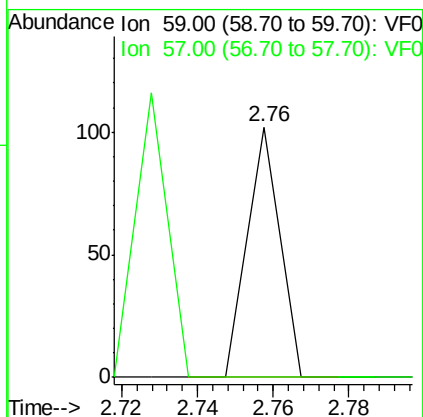
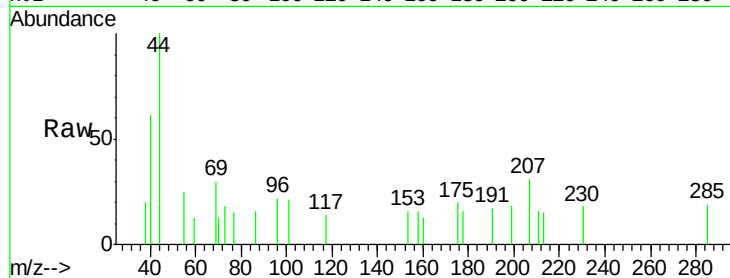


#11

Tert butyl alcohol
 Concen: 71.234 ug/l
 RT: 2.76 min Scan# 226
 Delta R.T. 0.05 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

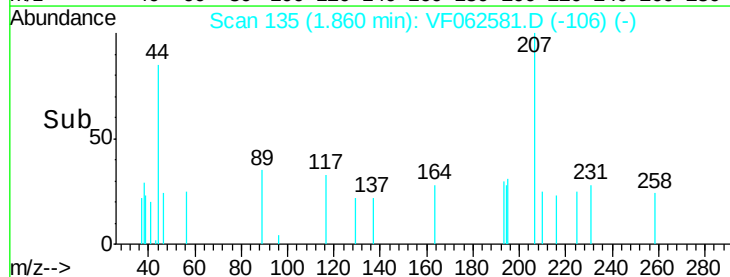
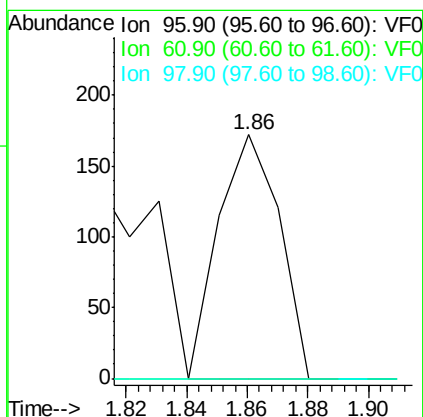
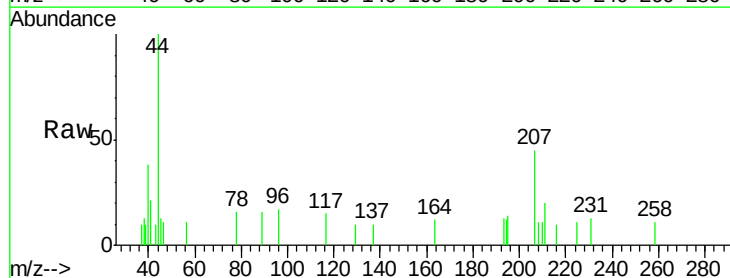
Tot Ion: 59 Resp: 60
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

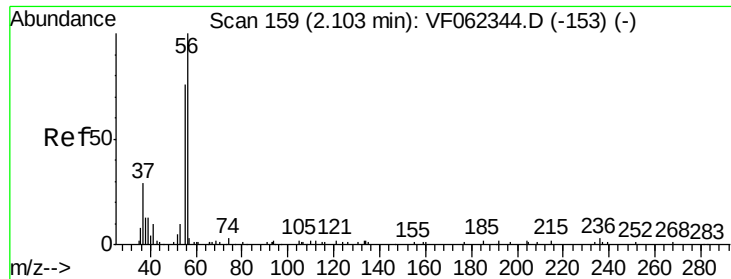


#12

1,1-Dichloroethene
 Concen: 19.933 ug/l
 RT: 1.86 min Scan# 135
 Delta R.T. -0.02 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

Tgt Ion: 96 Resp: 241
 Ion Ratio Lower Upper
 96 100
 61 0.0 163.2 244.8#
 98 0.0 55.2 82.8#

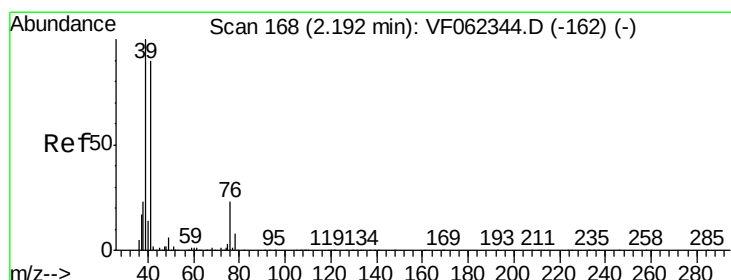
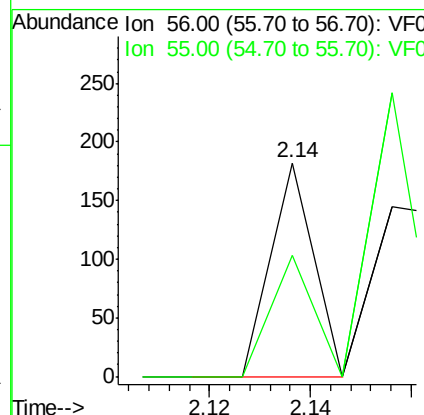
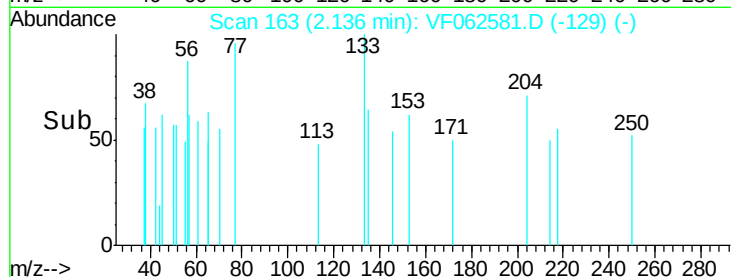
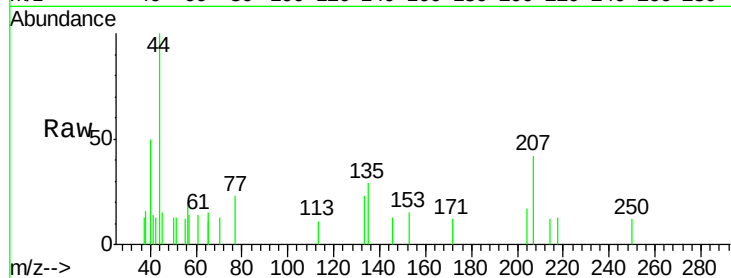




#13
Acrolein
Concen: 203.511 ug/l
RT: 2.14 min Scan# 163
Delta R.T. 0.03 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

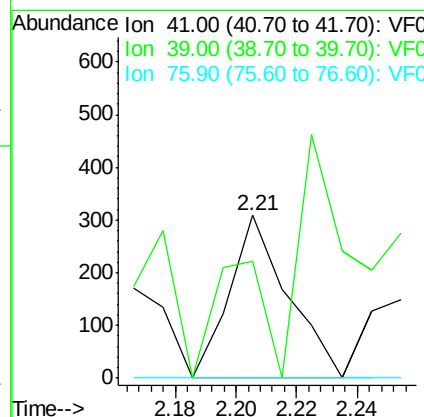
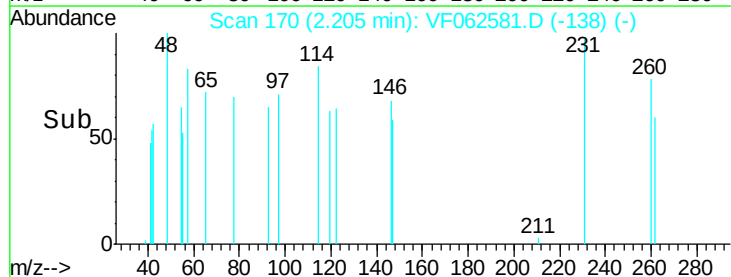
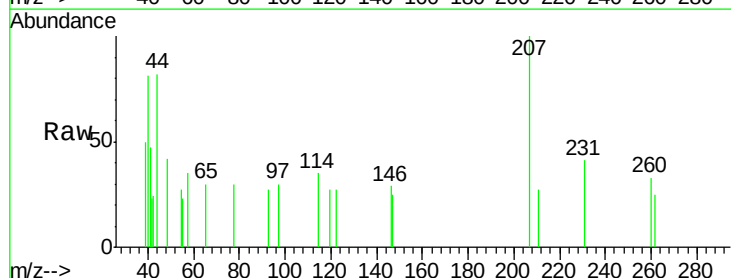
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

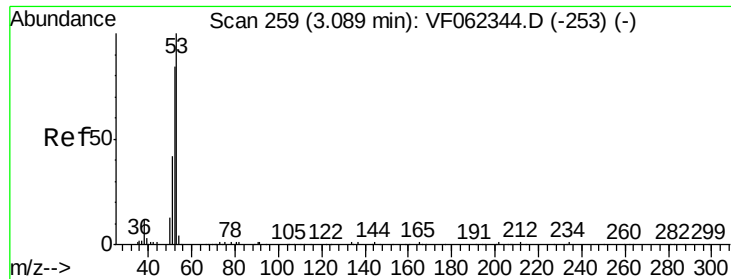
Tot Ion: 56 Resp: 108
Ion Ratio Lower Upper
56 100
55 0.0 58.4 87.6#



#14
Allyl chloride
Concen: 38.763 ug/l
RT: 2.21 min Scan# 170
Delta R.T. 0.01 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

Tgt Ion: 41 Resp: 414
Ion Ratio Lower Upper
41 100
39 230.7 90.8 136.2#
76 0.0 22.2 33.4#





#15

Acrylonitrile

Concen: 45.126 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

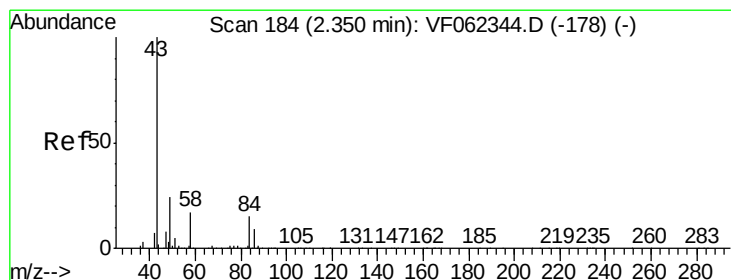
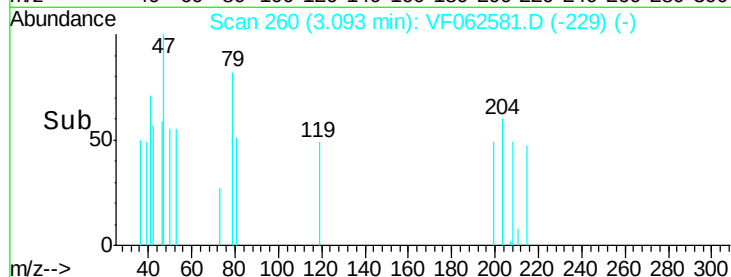
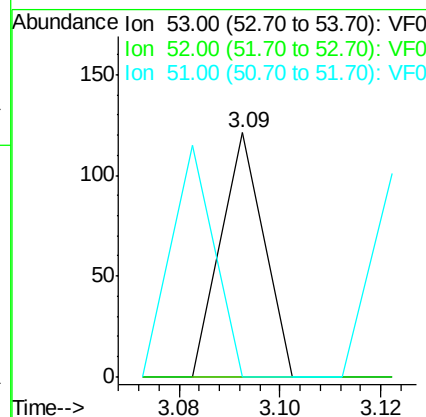
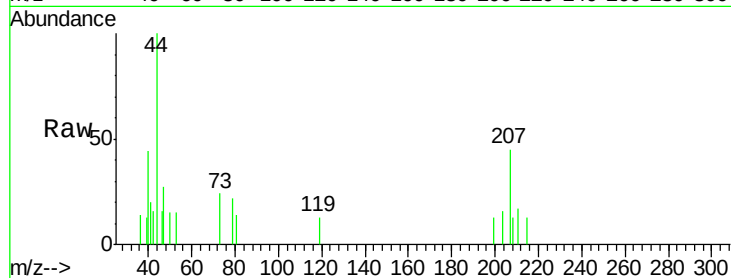
Tot Ion: 53 Resp: 72

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

51 0.0 40.6 61.0#



#16

Acetone

Concen: 60.700 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062581.D

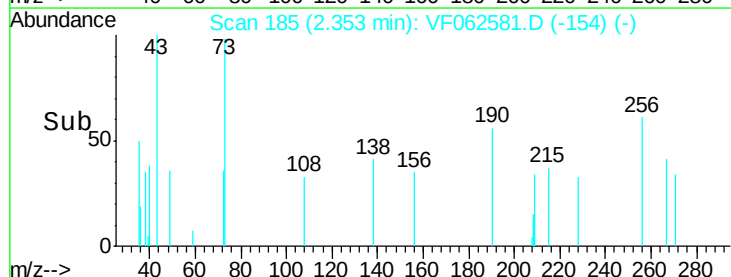
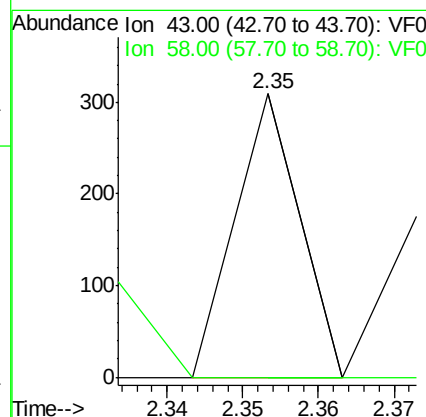
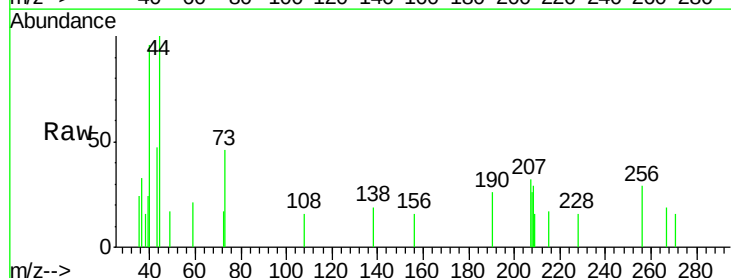
Acq: 14 May 2019 11:02

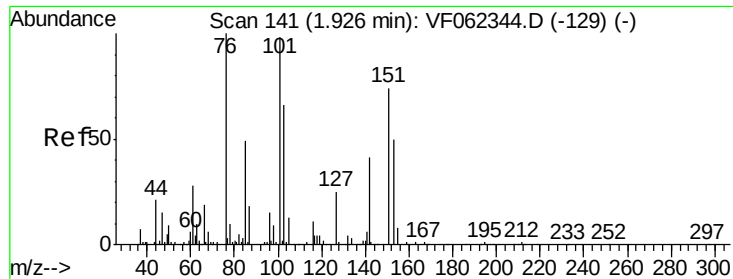
Tgt Ion: 43 Resp: 183

Ion Ratio Lower Upper

43 100

58 0.0 13.1 19.7#





#17

Carbon Disulfide

Concen: 3.148 ug/l

RT: 1.87 min Scan# 136

Delta R.T. -0.06 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

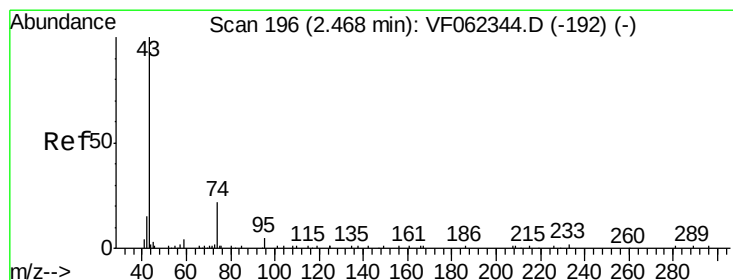
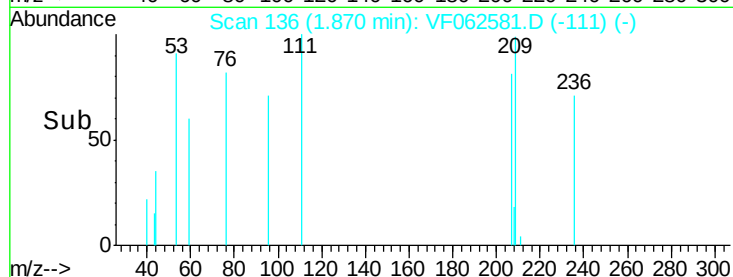
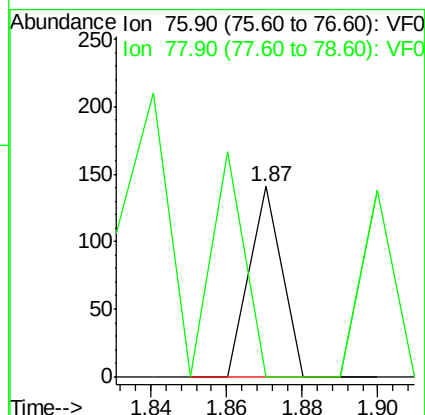
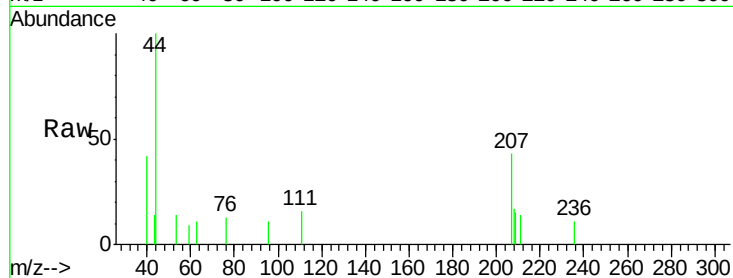
CULVER-CBTC-WC1-051019

Tot Ion: 76 Resp: 83

Ion Ratio Lower Upper

76 100

78 0.0 9.0 13.4#



#18

Methyl Acetate

Concen: 12.182 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF062581.D

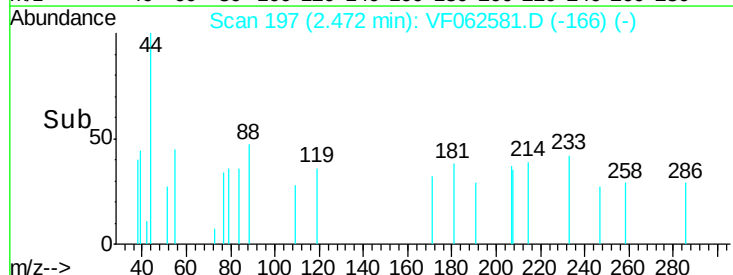
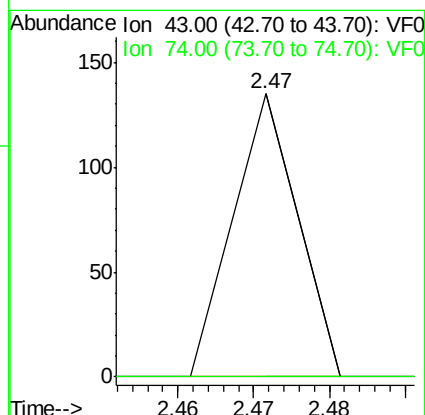
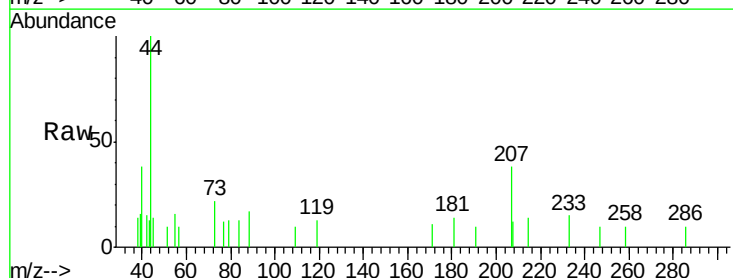
Acq: 14 May 2019 11:02

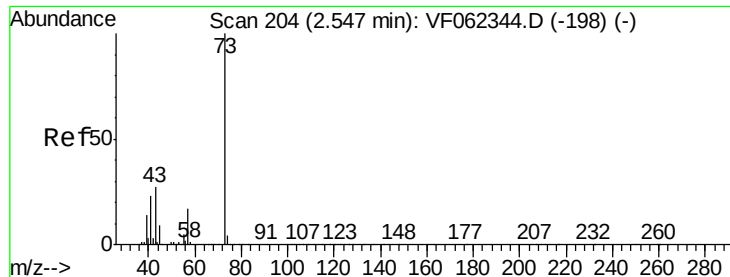
Tgt Ion: 43 Resp: 80

Ion Ratio Lower Upper

43 100

74 0.0 15.0 22.4#





#19

Methyl tert-butyl Ether

Concen: 9.376 ug/l

RT: 2.54 min Scan# 204

Delta R.T. -0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

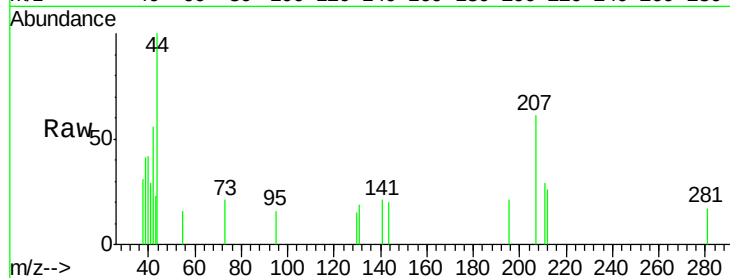
CULVER-CBTC-WC1-051019

Tot Ion: 73 Resp: 234

Ion Ratio Lower Upper

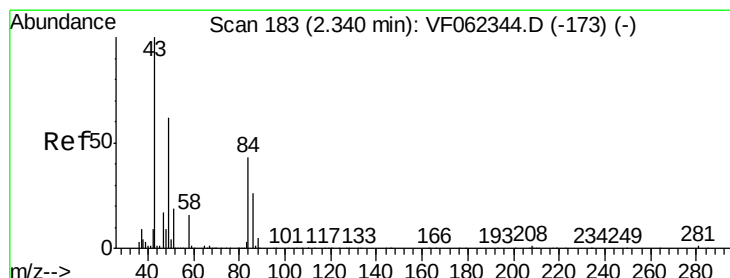
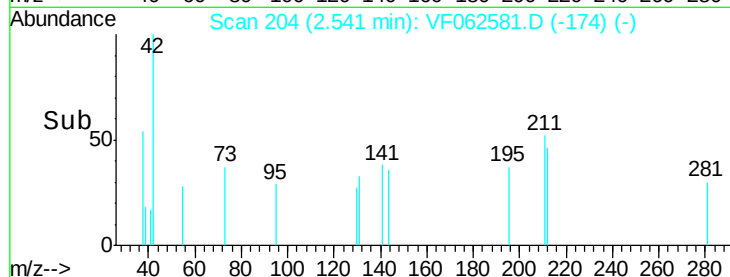
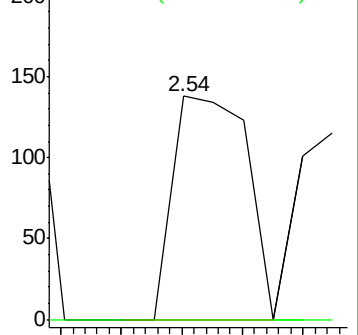
73 100

57 0.0 13.7 20.5#



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#20

Methylene Chloride

Concen: 8.159 ug/l

RT: 2.24 min Scan# 174

Delta R.T. -0.10 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Tgt Ion: 84 Resp: 89

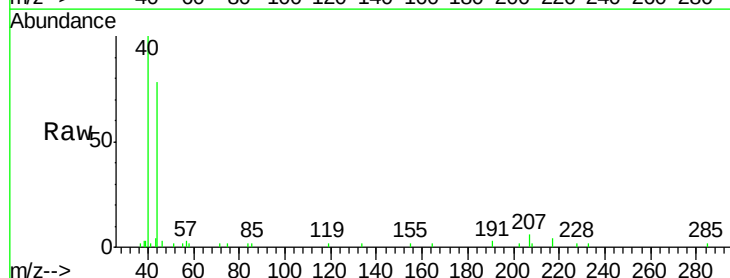
Ion Ratio Lower Upper

84 100

49 0.0 117.5 176.3#

51 98.0 37.0 55.4#

86 76.8 49.3 73.9#

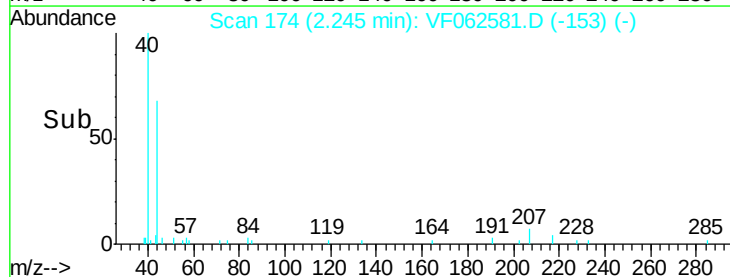
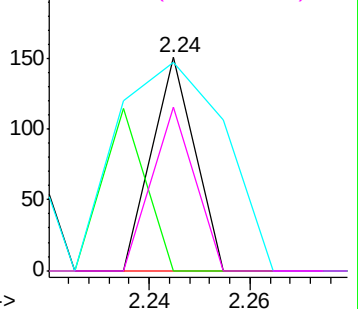


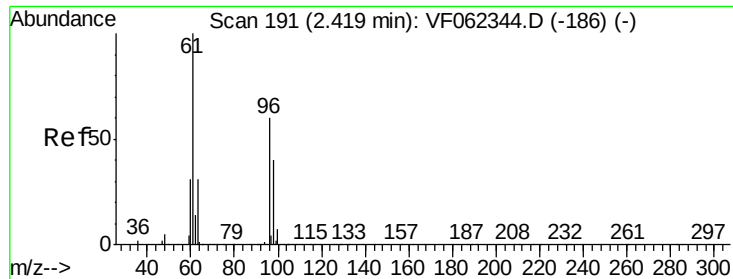
Abundance Ion 83.90 (83.60 to 84.60): VF0

Ion 48.90 (48.60 to 49.60): VF0

Ion 50.90 (50.60 to 51.60): VF0

Ion 85.90 (85.60 to 86.60): VF0





#21

trans-1,2-Dichloroethene

Concen: 27.692 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

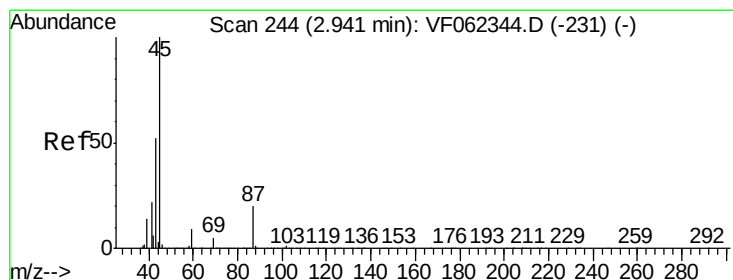
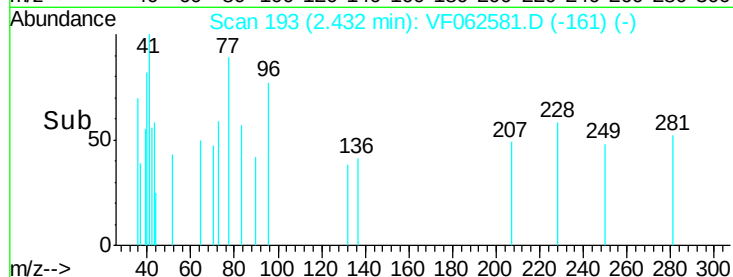
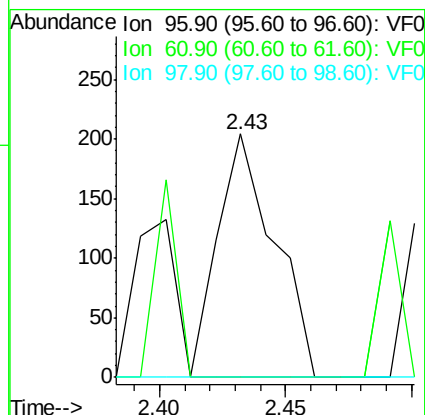
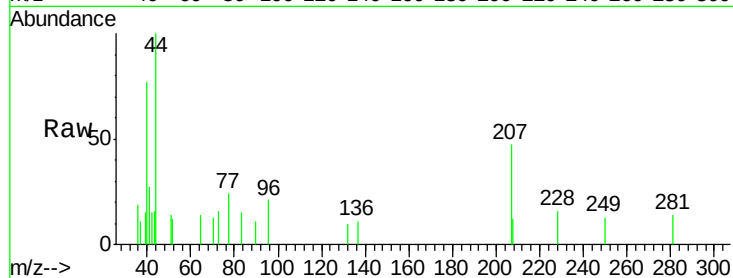
Tot Ion: 96 Resp: 319

Ion Ratio Lower Upper

96 100

61 0.0 133.2 199.8#

98 0.0 53.1 79.7#



#22

Diisopropyl ether

Concen: 9.047 ug/l

RT: 2.94 min Scan# 245

Delta R.T. 0.00 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Tgt Ion: 45 Resp: 302

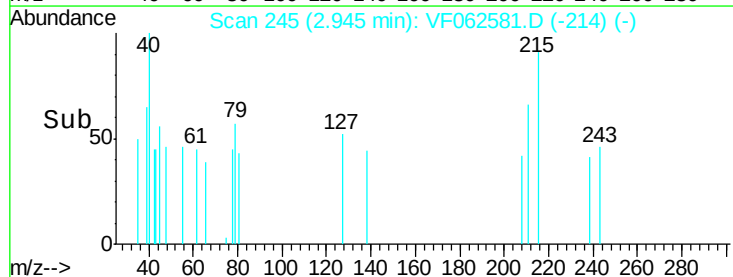
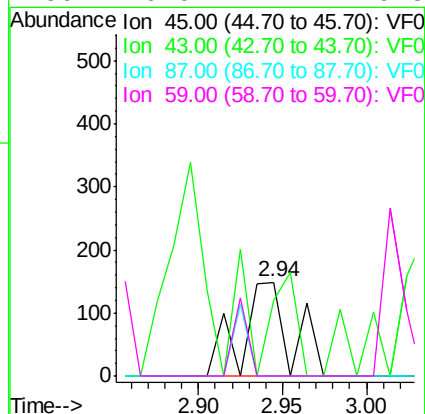
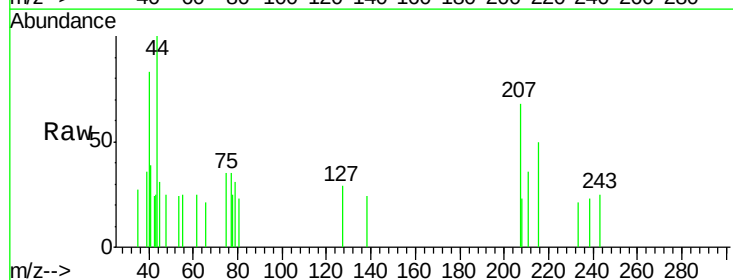
Ion Ratio Lower Upper

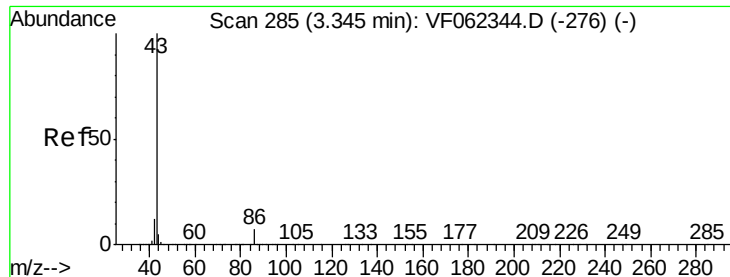
45 100

43 8.7 41.4 62.0#

87 0.0 15.8 23.6#

59 0.0 7.2 10.8#





#23

Vinyl Acetate

Concen: 9.612 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

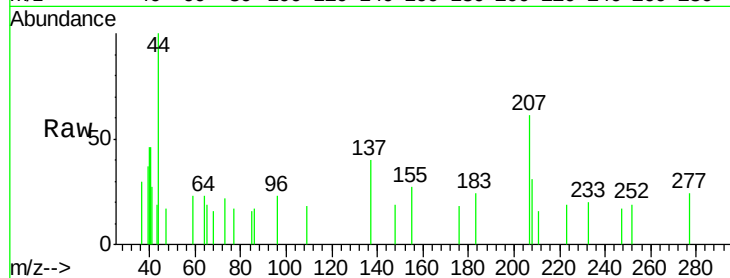
CULVER-CBTC-WC1-051019

Tot Ion: 43 Resp: 143

Ion Ratio Lower Upper

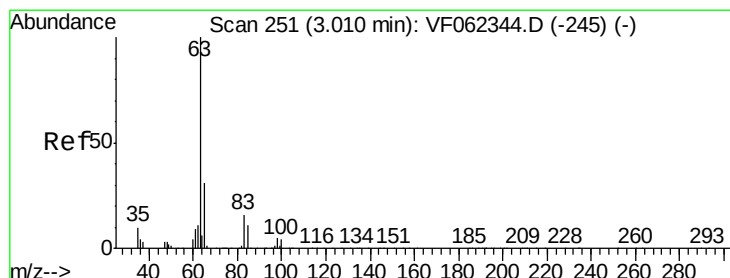
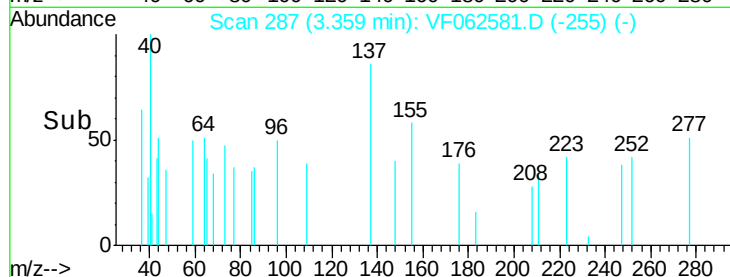
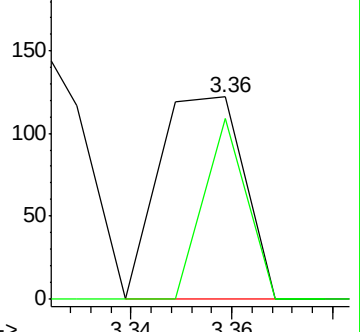
43 100

86 89.3 5.7 8.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 3.965 ug/l

RT: 2.92 min Scan# 243

Delta R.T. -0.09 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

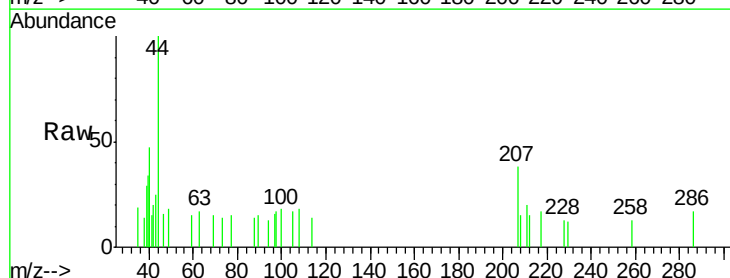
Tgt Ion: 63 Resp: 80

Ion Ratio Lower Upper

63 100

98 103.0 2.6 8.0#

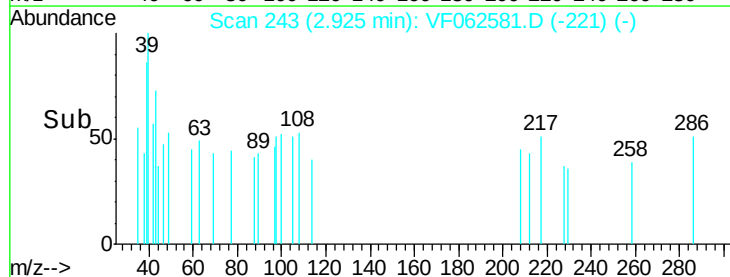
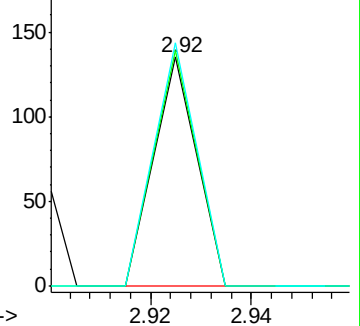
100 106.7 1.8 5.4#

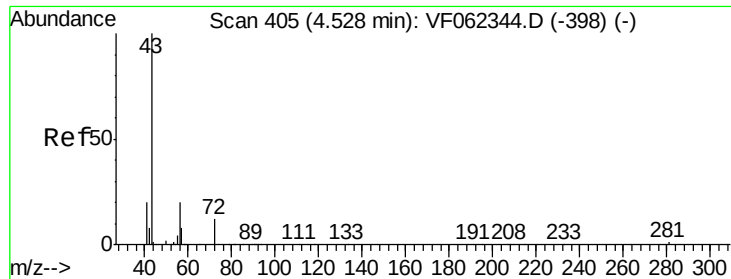


Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0





#25

2-Butanone

Concen: 17.689 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

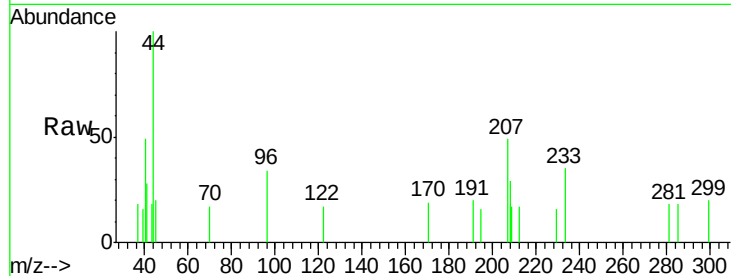
CULVER-CBTC-WC1-051019

Tot Ion: 43 Resp: 67

Ion Ratio Lower Upper

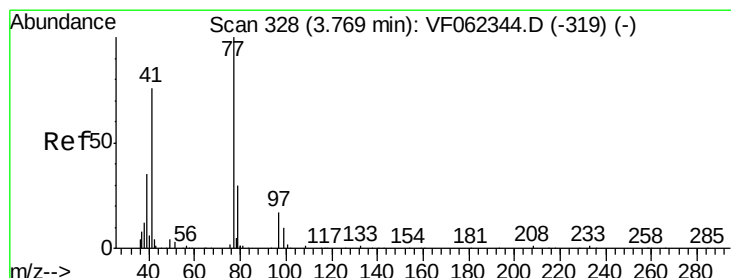
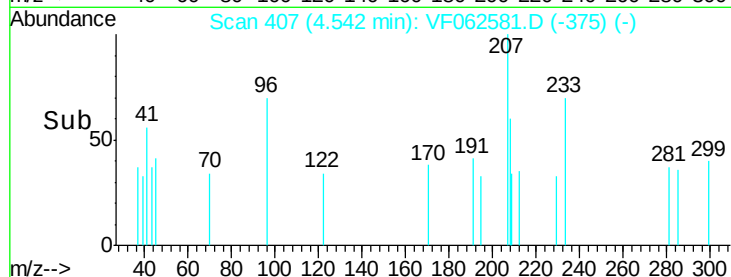
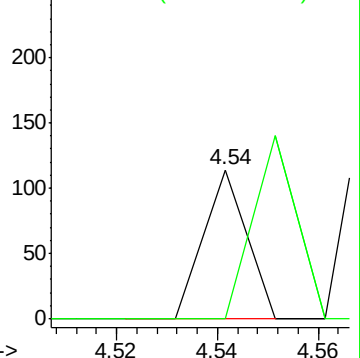
43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 32.397 ug/l

RT: 3.77 min Scan# 329

Delta R.T. 0.00 min

Lab File: VF062581.D

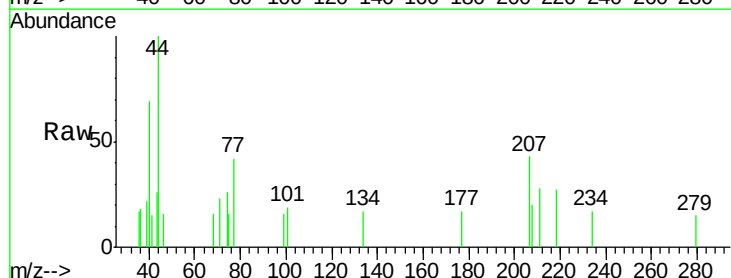
Acq: 14 May 2019 11:02

Tgt Ion: 77 Resp: 365

Ion Ratio Lower Upper

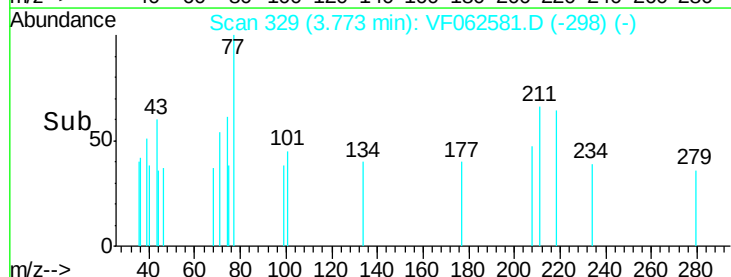
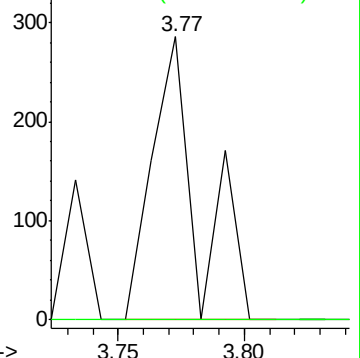
77 100

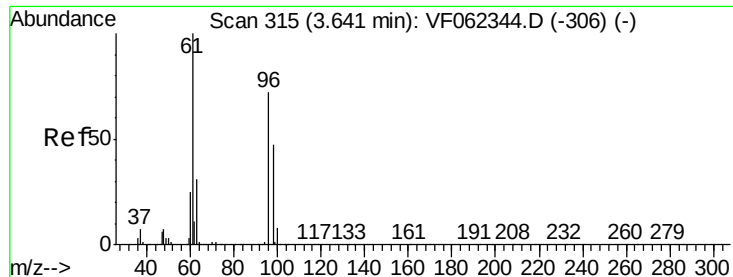
97 0.0 9.5 28.5#



Abundance Ion 76.90 (76.60 to 77.60): VF0

Ion 96.90 (96.60 to 97.60): VF0



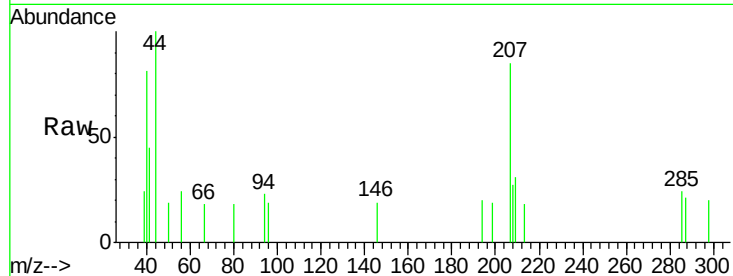


#27

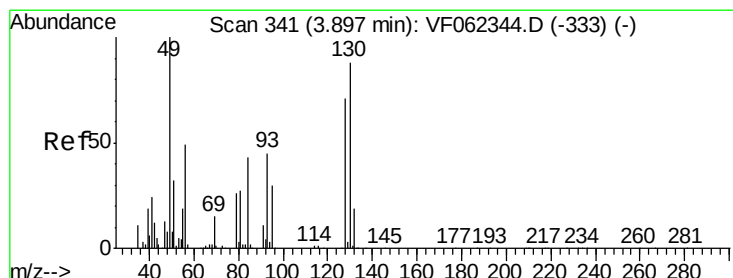
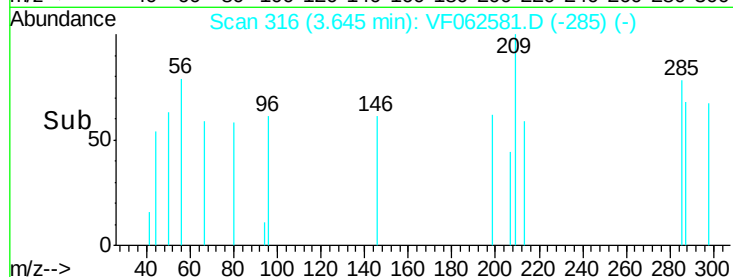
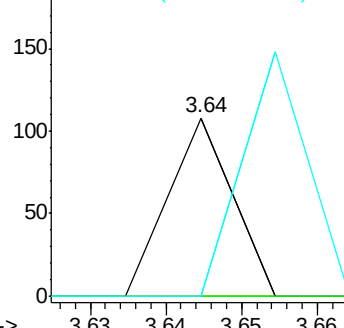
cis-1,2-Dichloroethene
Concen: 4.445 ug/l
RT: 3.64 min Scan# 316
Delta R.T. 0.00 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

Tot Ion: 96 Resp: 64
Ion Ratio Lower Upper
96 100
61 0.0 0.0 263.0
98 137.5 0.0 130.8#



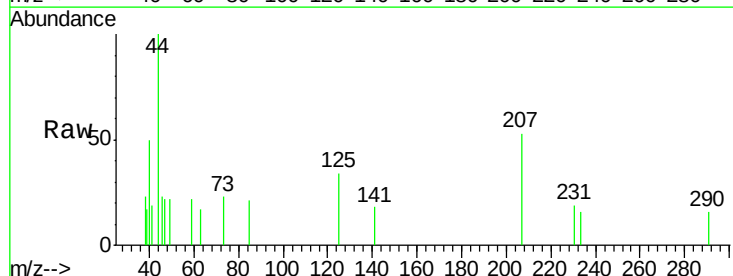
Abundance Ion 95.90 (95.60 to 96.60): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 97.90 (97.60 to 98.60): VF0



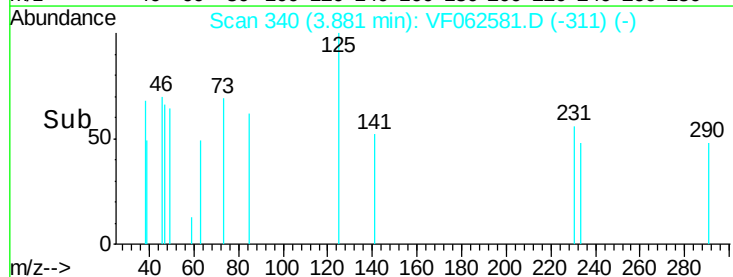
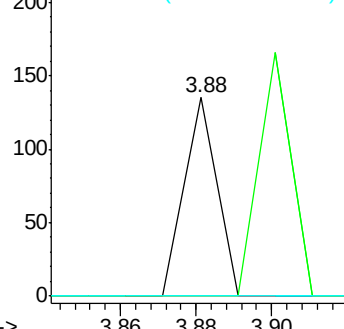
#28

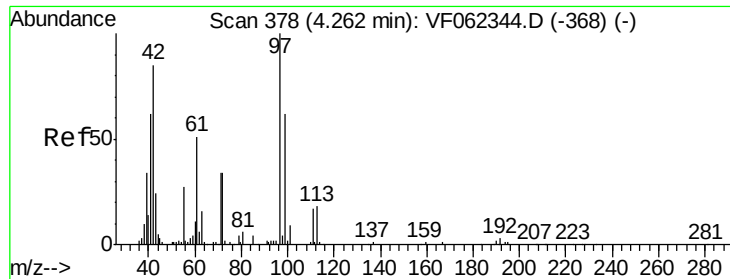
Bromochloromethane
Concen: 8.744 ug/l
RT: 3.88 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

Tgt Ion: 49 Resp: 80
Ion Ratio Lower Upper
49 100
129 122.5 0.0 2.2#
130 0.0 79.4 119.0#



Abundance Ion 48.90 (48.60 to 49.60): VF0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 131.551 ug/l

RT: 4.23 min Scan# 375

Delta R.T. -0.04 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

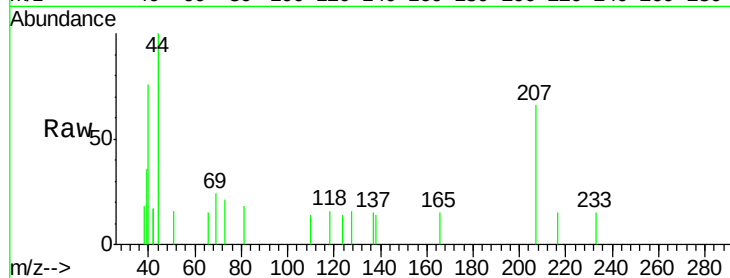
Tot Ion: 42 Resp: 229

Ion Ratio Lower Upper

42 100

72 37.1 31.4 47.0

71 38.4 31.7 47.5



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

4.23

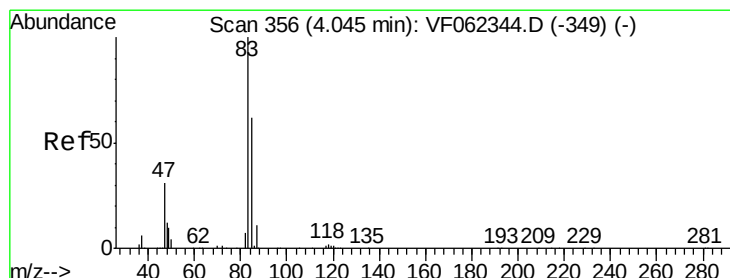
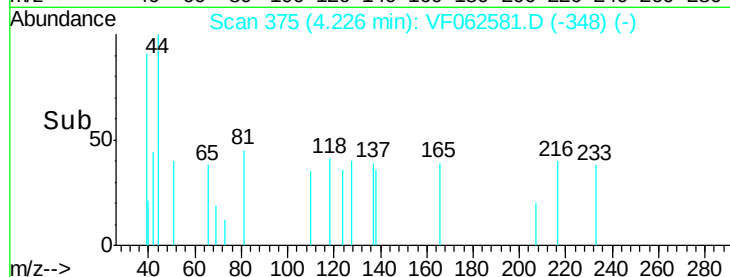
200

100

0

4.20 4.22 4.24 4.26

Time-->



#30

Chloroform

Concen: 6.604 ug/l

RT: 4.20 min Scan# 372

Delta R.T. 0.15 min

Lab File: VF062581.D

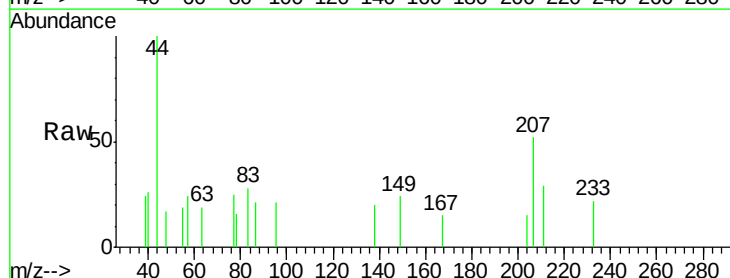
Acq: 14 May 2019 11:02

Tgt Ion: 83 Resp: 180

Ion Ratio Lower Upper

83 100

85 0.0 49.6 74.4#



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

4.20

200

150

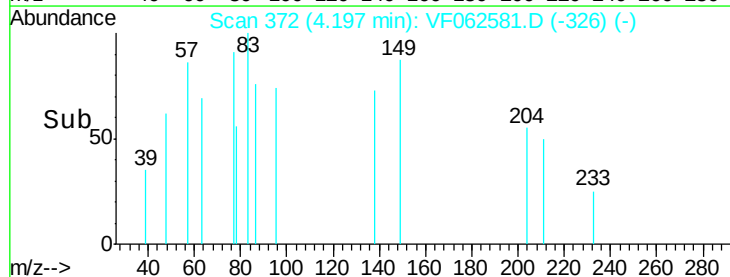
100

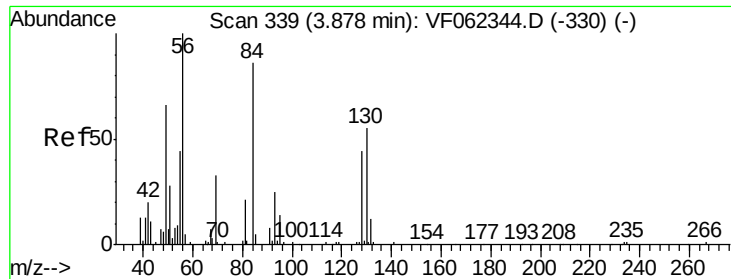
50

0

4.15 4.20 4.25

Time-->





#31

Cyclohexane

Concen: 4.658 ug/l

RT: 3.91 min Scan# 343

Delta R.T. 0.03 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

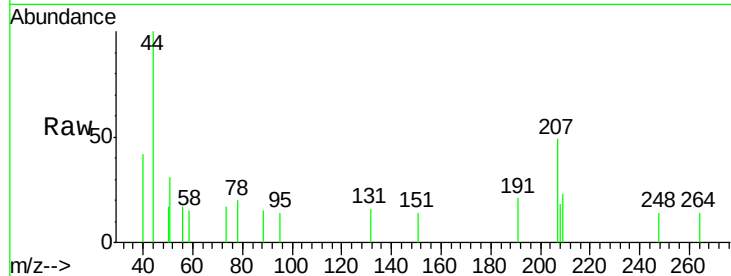
Tot Ion: 56 Resp: 75

Ion Ratio Lower Upper

56 100

69 0.0 26.4 39.6#

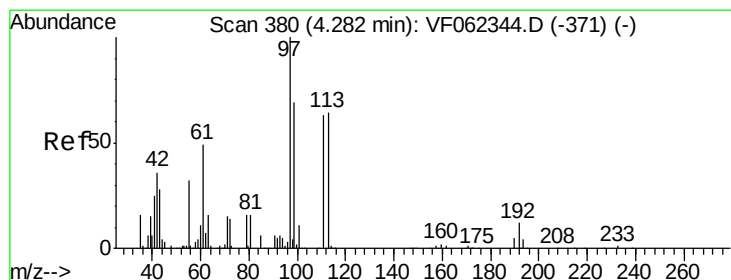
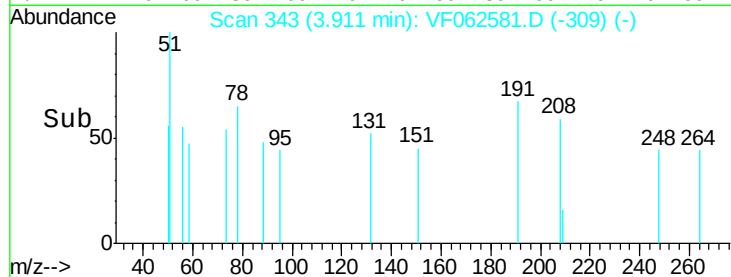
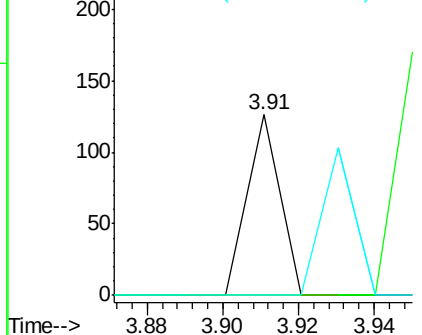
84 0.0 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 2.825 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.00 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

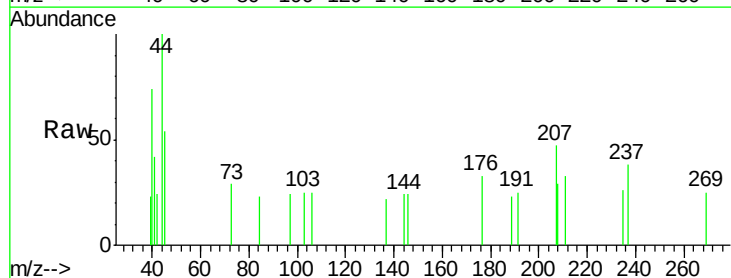
Tgt Ion: 97 Resp: 66

Ion Ratio Lower Upper

97 100

99 0.0 52.6 78.8#

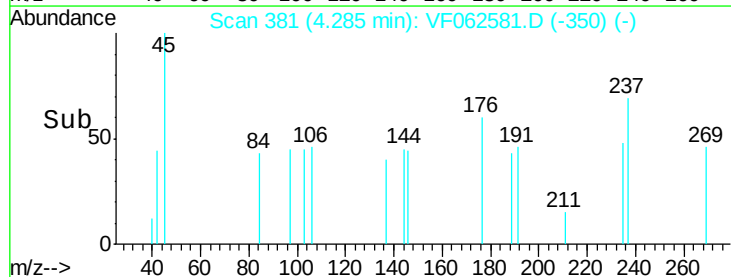
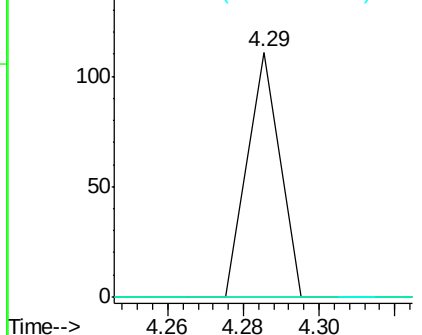
61 0.0 39.4 59.0#

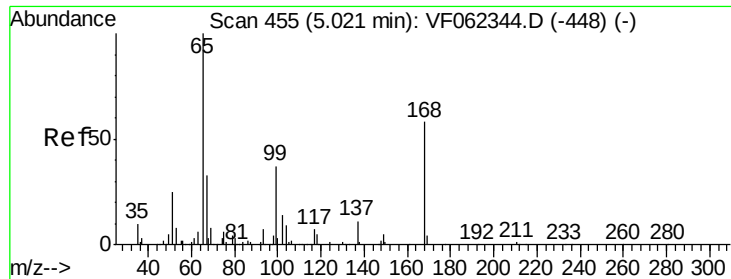


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

Ion 60.90 (60.60 to 61.60): VF0





#33

1,2-Dichloroethane-d4

Concen: 11.809 ug/l

RT: 5.09 min Scan# 463

Delta R.T. 0.07 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

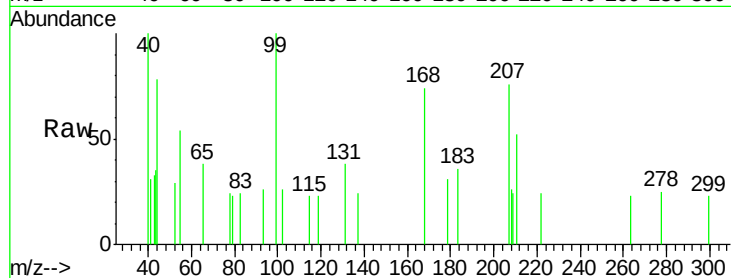
CULVER-CBTC-WC1-051019

Tot Ion: 65 Resp: 176

Ion Ratio Lower Upper

65 100

67 36.4 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

200

150

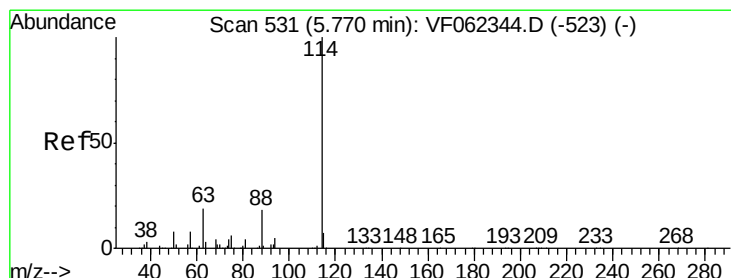
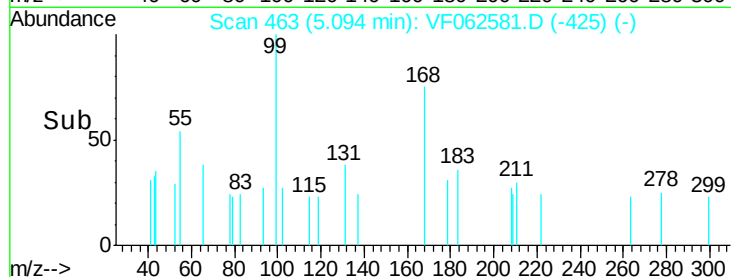
100

50

0

5.06 5.08 5.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.02 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

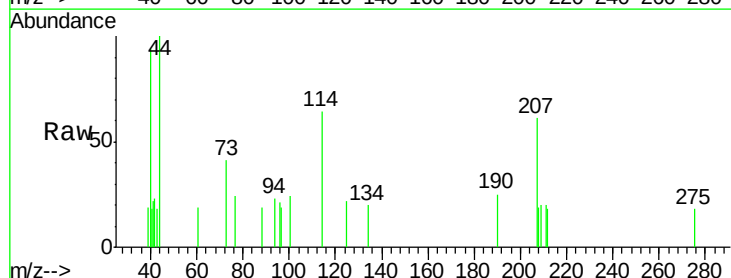
Tgt Ion: 114 Resp: 748

Ion Ratio Lower Upper

114 100

63 0.0 0.0 37.4

88 29.2 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

500

400

300

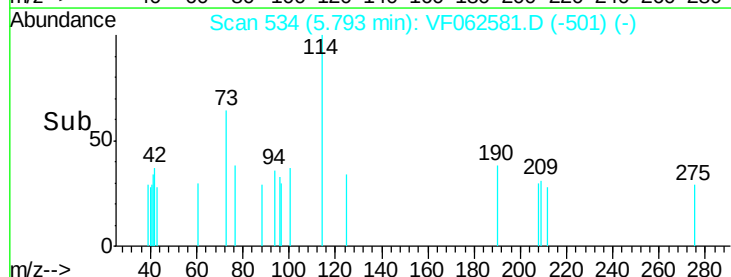
200

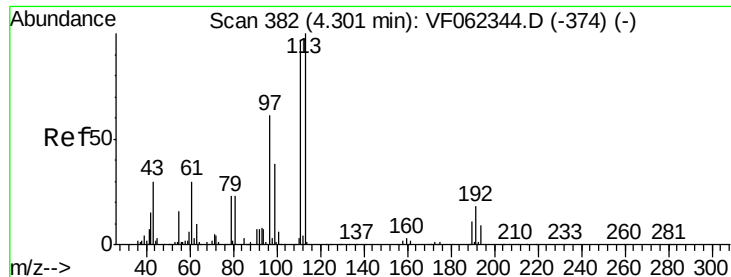
100

0

5.70 5.75 5.80 5.85

Time-->

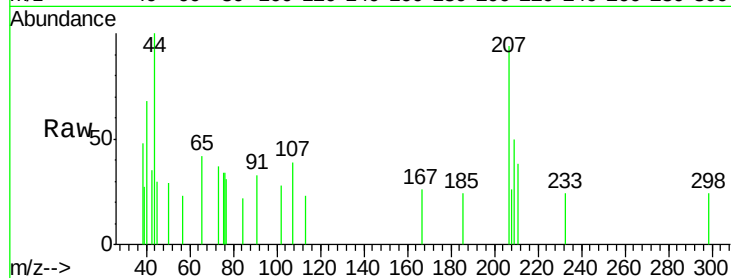




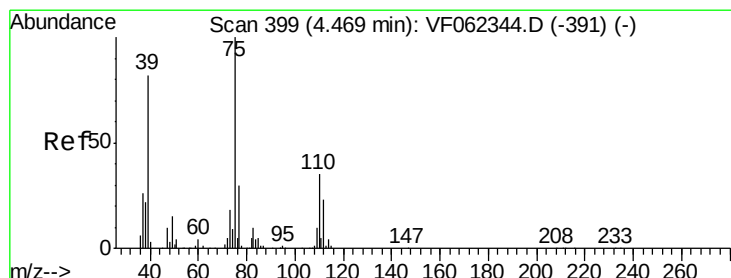
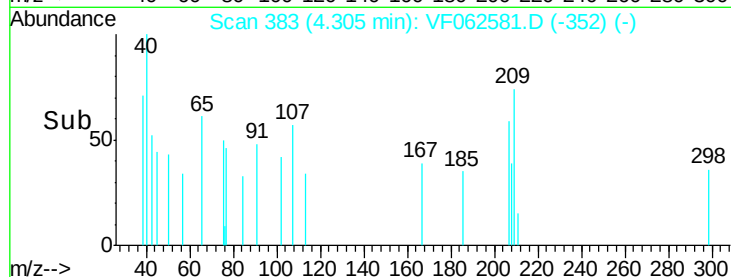
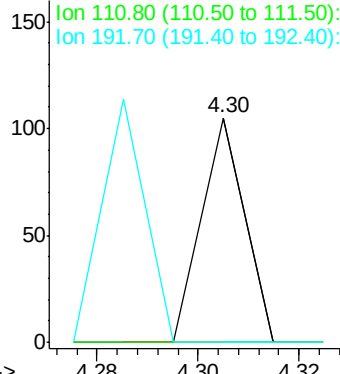
#35
 Dibromofluoromethane
 Concen: 10.404 ug/l
 RT: 4.30 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

Tot Ion:113 Resp: 62
 Ion Ratio Lower Upper
 113 100
 111 0.0 79.4 119.0#
 192 108.1 16.0 24.0#

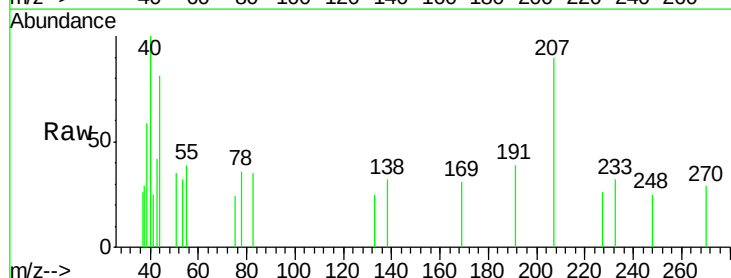


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

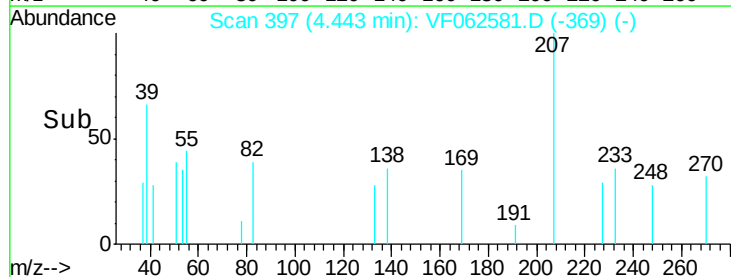
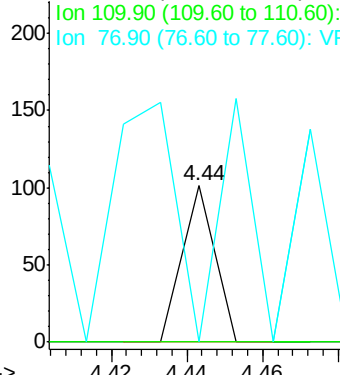


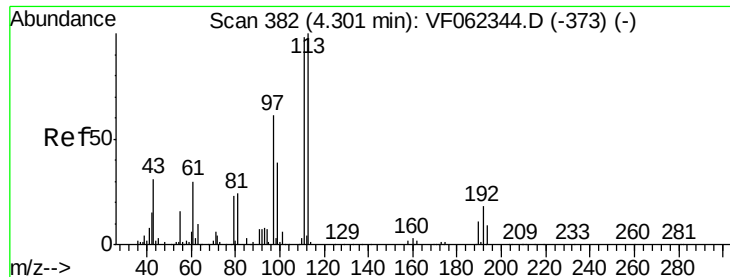
#36
 1,1-Dichloropropene
 Concen: 9.338 ug/l
 RT: 4.44 min Scan# 397
 Delta R.T. -0.03 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

Tgt Ion: 75 Resp: 60
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.2 51.5#
 77 405.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VF0





#37

Ethyl Acetate

Concen: 67.374 ug/l

RT: 4.33 min Scan# 386

Delta R.T. 0.03 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

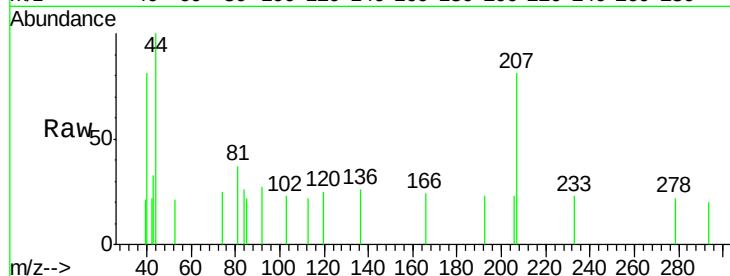
Tot Ion: 43 Resp: 164

Ion Ratio Lower Upper

43 100

61 37.8 0.0 0.0#

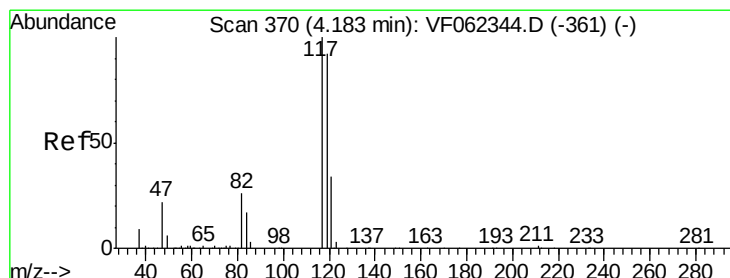
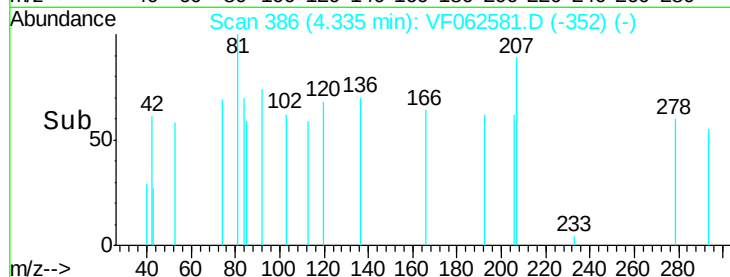
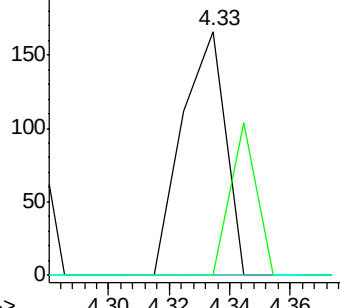
70 0.0 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 12.626 ug/l

RT: 4.06 min Scan# 358

Delta R.T. -0.12 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

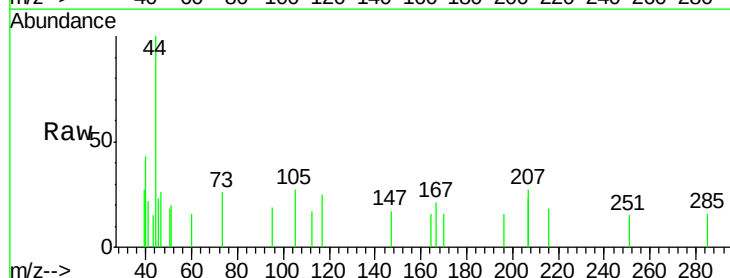
Tgt Ion: 117 Resp: 98

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

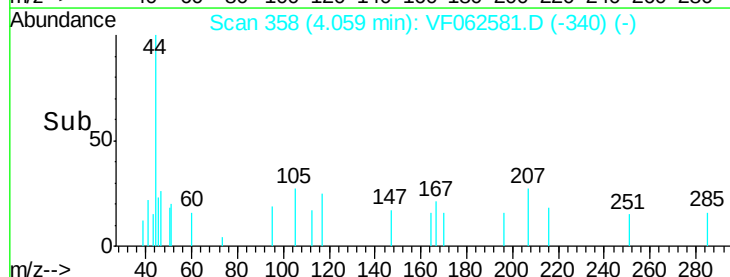
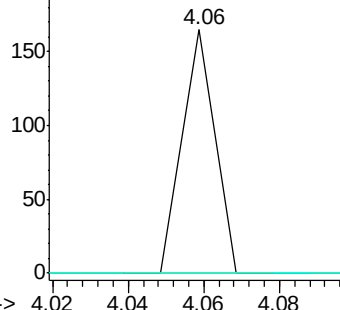
121 0.0 27.4 41.0#

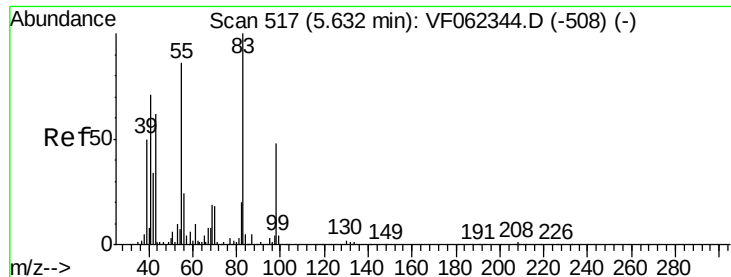


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

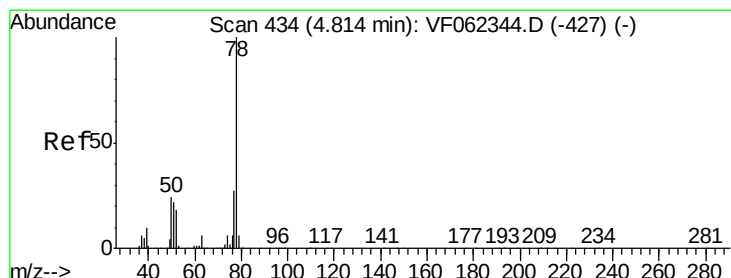
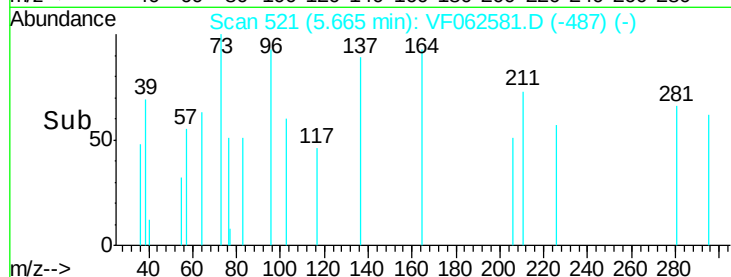
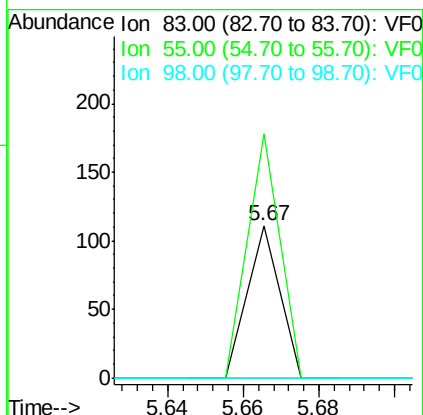
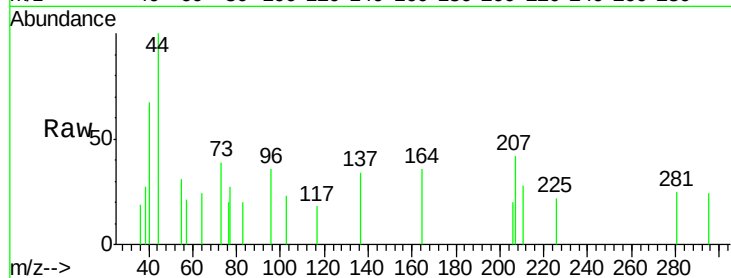




#39
Methylvlcyclohexane
Concen: 10.242 ug/l
RT: 5.67 min Scan# 521
Delta R.T. 0.03 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

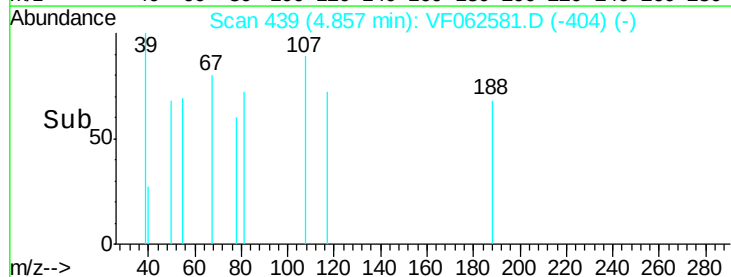
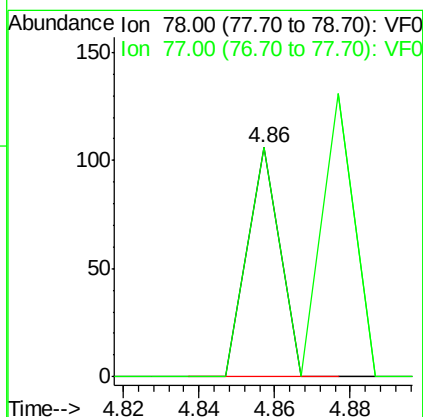
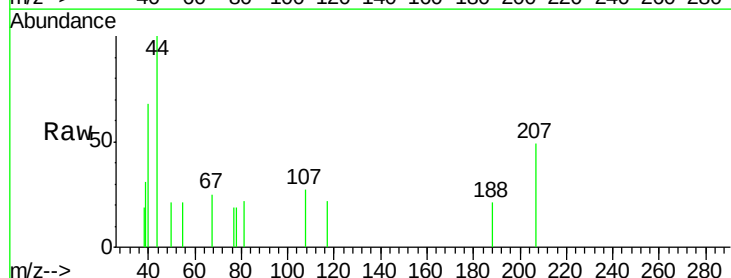
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

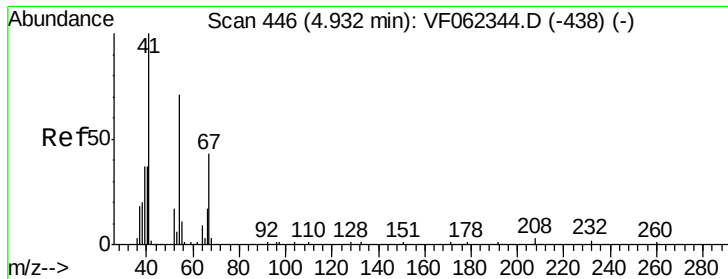
Tot Ion: 83 Resp: 66
Ion Ratio Lower Upper
83 100
55 160.4 69.0 103.6#
98 0.0 38.6 58.0#



#40
Benzene
Concen: 4.452 ug/l
RT: 4.86 min Scan# 439
Delta R.T. 0.04 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

Tgt Ion: 78 Resp: 63
Ion Ratio Lower Upper
78 100
77 100.0 21.6 32.4#





#41

Methacrylonitrile

Concen: 175.242 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

Tot Ion: 41 Resp: 270

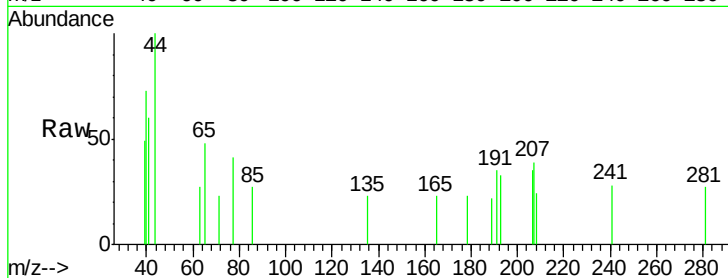
Ion Ratio Lower Upper

41 100

39 123.0 54.3 81.5#

67 0.0 37.8 56.8#

52 30.4 58.2 87.4#



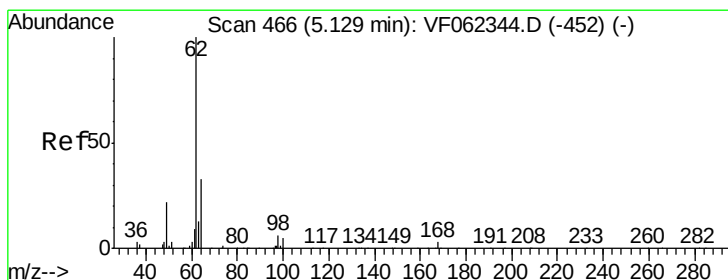
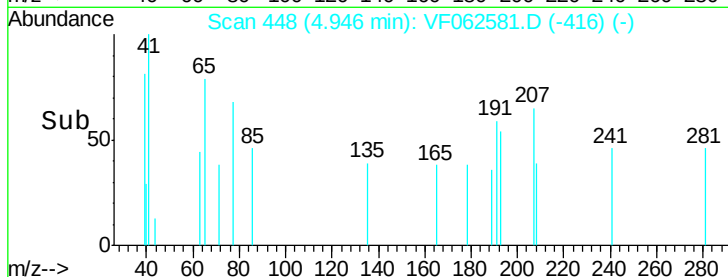
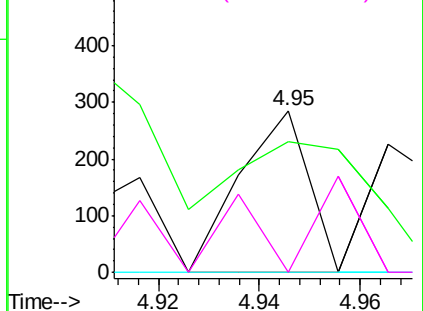
Abundance

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 12.336 ug/l

RT: 5.13 min Scan# 467

Delta R.T. 0.00 min

Lab File: VF062581.D

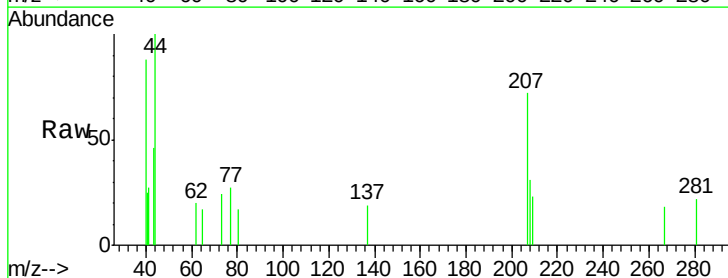
Acq: 14 May 2019 11:02

Tgt Ion: 62 Resp: 73

Ion Ratio Lower Upper

62 100

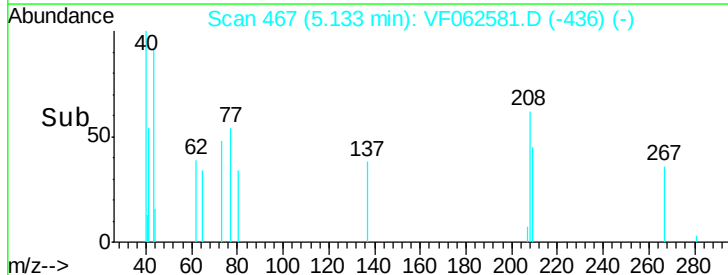
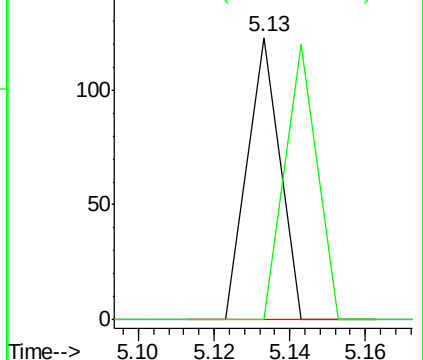
98 97.3 0.0 12.4#

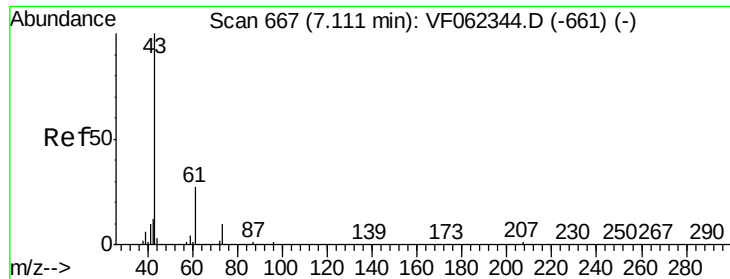


Abundance

Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0





#43

Isopropyl Acetate

Concen: 70.141 ug/l

RT: 7.16 min Scan# 673

Delta R.T. 0.05 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

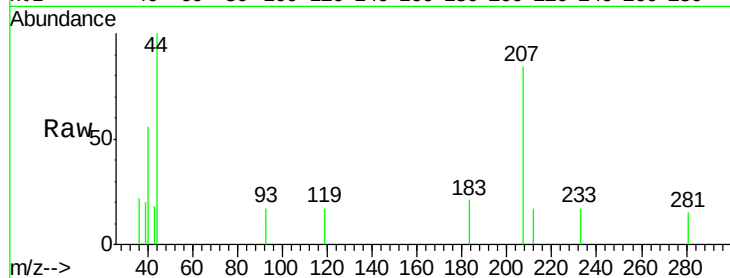
Tot Ion: 43 Resp: 205

Ion Ratio Lower Upper

43 100

61 0.0 22.8 34.2#

87 0.0 0.6 1.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

250

200

150

100

50

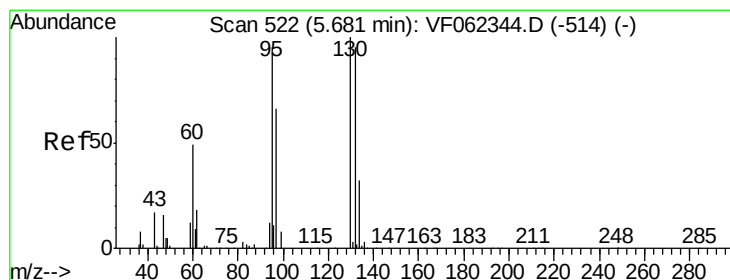
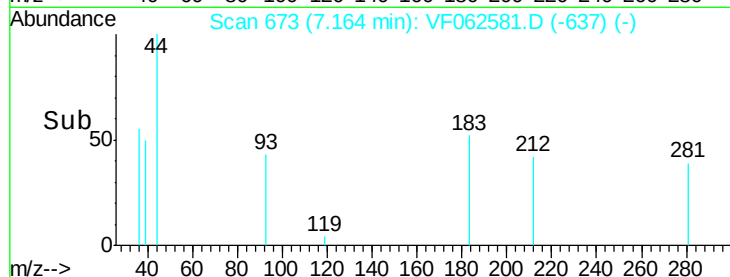
0

7.10

7.15

7.20

Time-->



#44

Trichloroethene

Concen: 12.121 ug/l

RT: 5.71 min Scan# 526

Delta R.T. 0.03 min

Lab File: VF062581.D

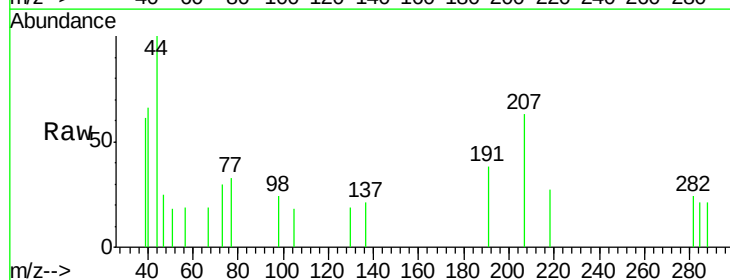
Acq: 14 May 2019 11:02

Tgt Ion: 130 Resp: 63

Ion Ratio Lower Upper

130 100

95 0.0 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VF0

150

100

50

0

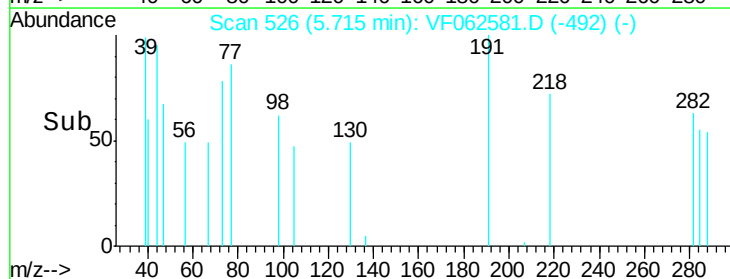
5.68

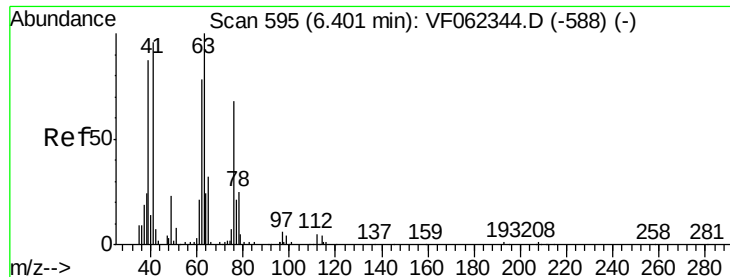
5.70

5.72

5.74

Time-->





#45

1,2-Dichloropropane

Concen: 44.619 ug/l

RT: 6.44 min Scan# 600

Delta R.T. 0.04 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

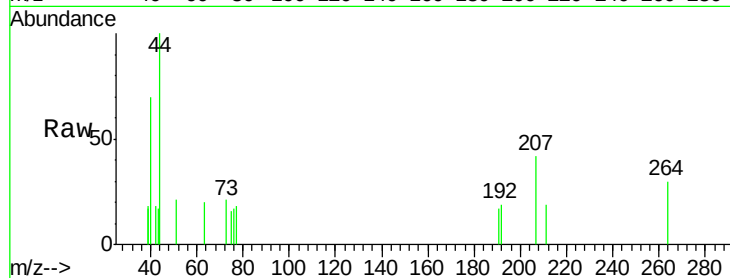
CULVER-CBTC-WC1-051019

Tot Ion: 63 Resp: 143

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 64.90 (64.60 to 65.60): VF0

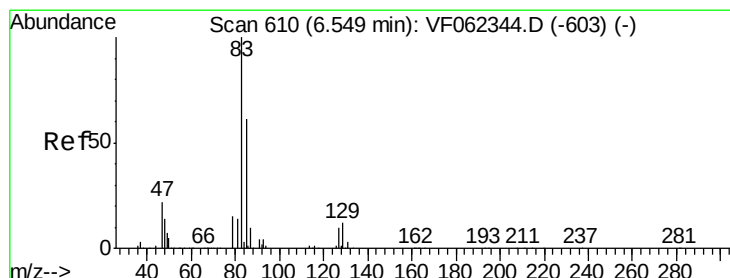
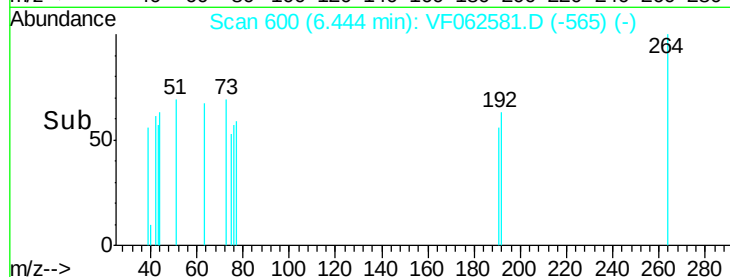
6.44

100

50

0

Time--> 6.40 6.45 6.50



#47

Bromodichloromethane

Concen: 32.362 ug/l

RT: 6.45 min Scan# 601

Delta R.T. -0.09 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

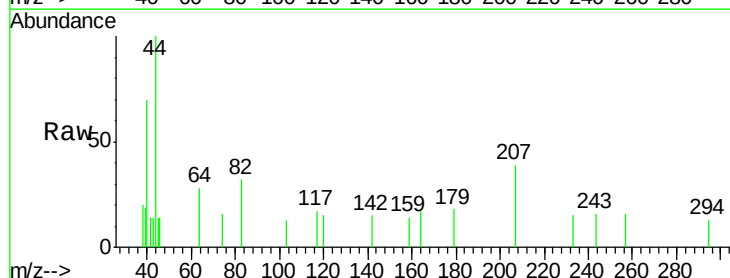
Tgt Ion: 83 Resp: 215

Ion Ratio Lower Upper

83 100

85 0.0 49.1 73.7#

127 0.0 7.8 11.8#



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V

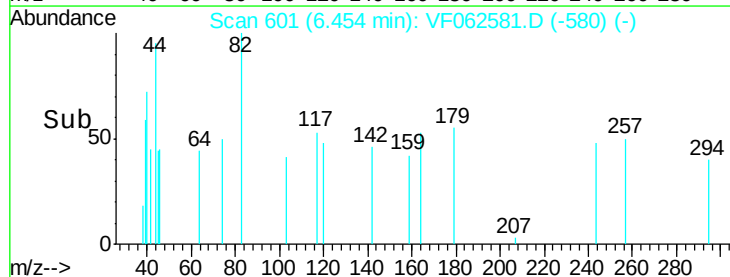
300

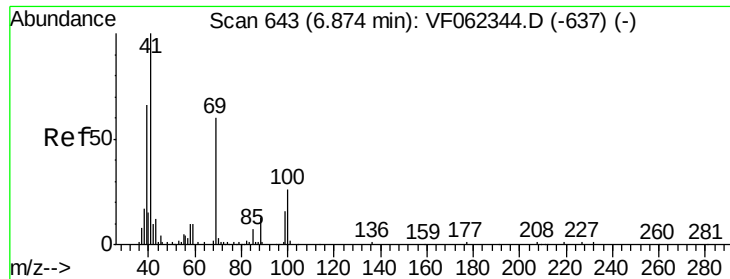
200

100

0

Time--> 6.40 6.45

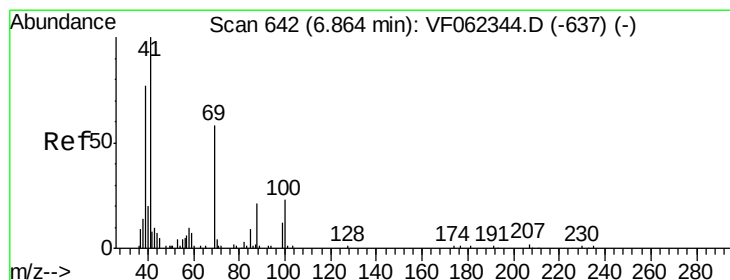
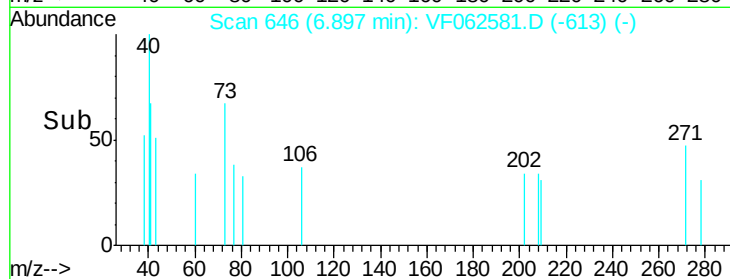
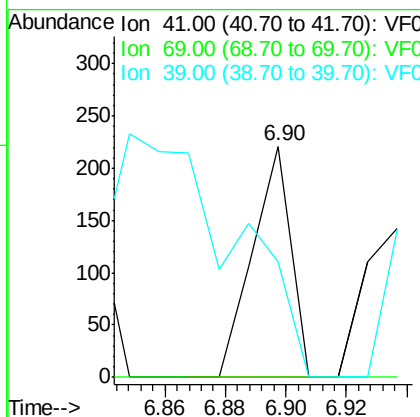
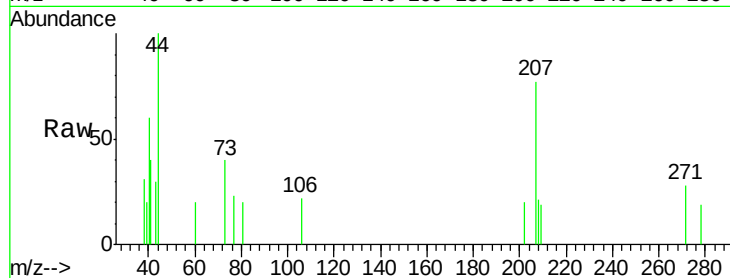




#48
Methvl methacrylate
Concen: 93.443 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.02 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

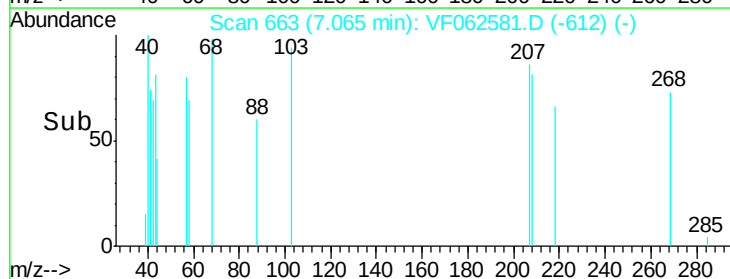
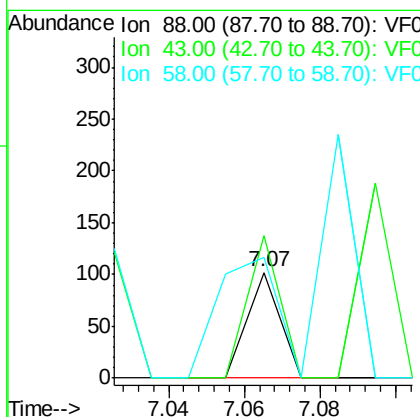
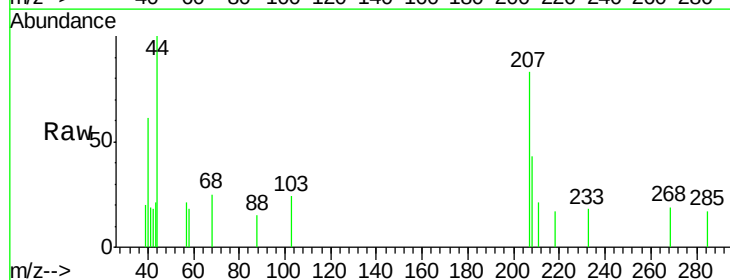
Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

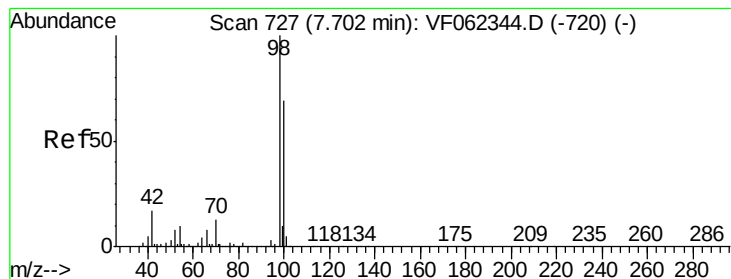
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	48.6	72.8#
39	0.0	56.1	84.1#



#49
1,4-Dioxane
Concen: 2848.686 ug/l
RT: 7.07 min Scan# 663
Delta R.T. 0.20 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

Tgt Ion	Ratio	Lower	Upper
88	100		
43	136.7	55.6	83.4#
58	215.0	52.8	79.2#





#50

Toluene-d8

Concen: 7.695 ug/l

RT: 7.74 min Scan# 731

Delta R.T. 0.03 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

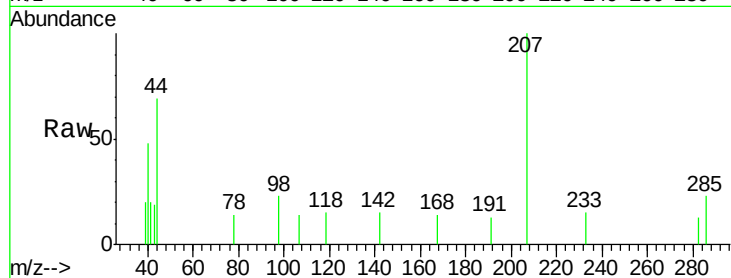
CULVER-CBTC-WC1-051019

Tot Ion: 98 Resp: 111

Ion Ratio Lower Upper

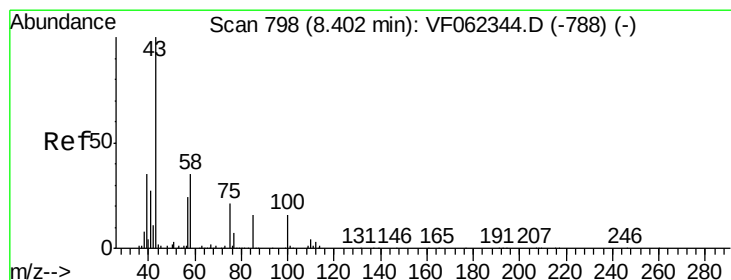
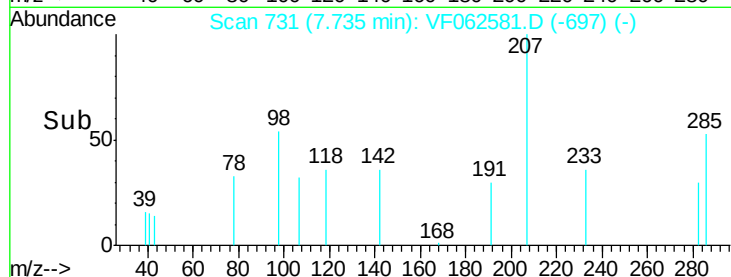
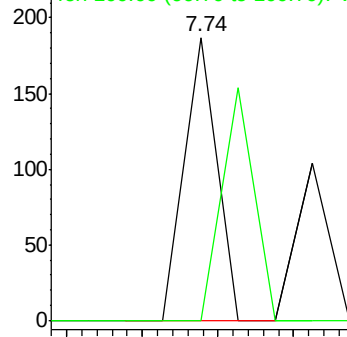
98 100

100 82.0 53.3 79.9#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 59.603 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.03 min

Lab File: VF062581.D

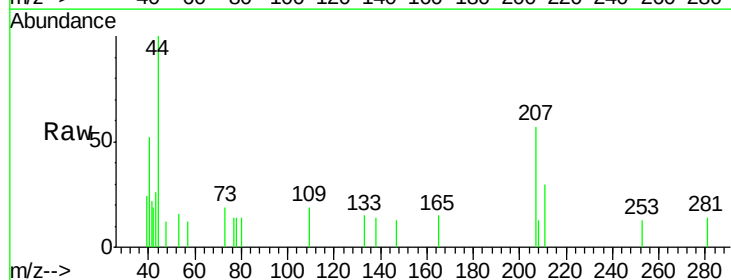
Acq: 14 May 2019 11:02

Tgt Ion: 43 Resp: 132

Ion Ratio Lower Upper

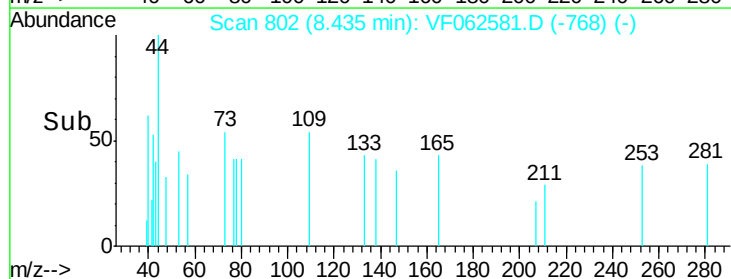
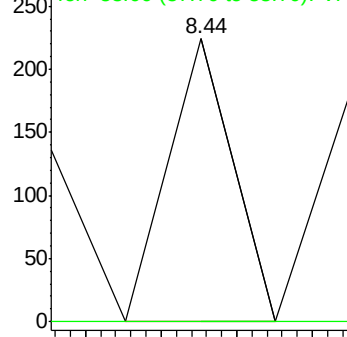
43 100

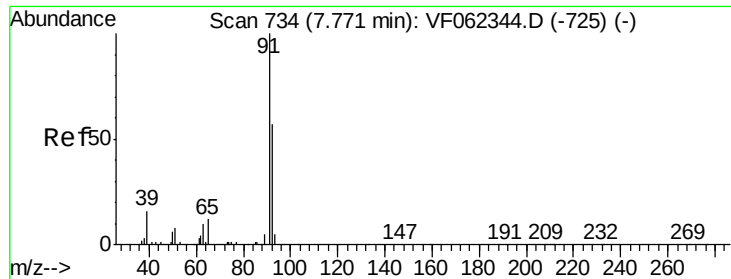
58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 9.050 ug/l

RT: 7.73 min Scan# 730

Delta R.T. -0.05 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

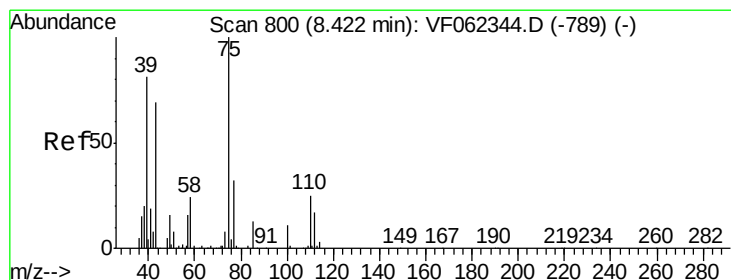
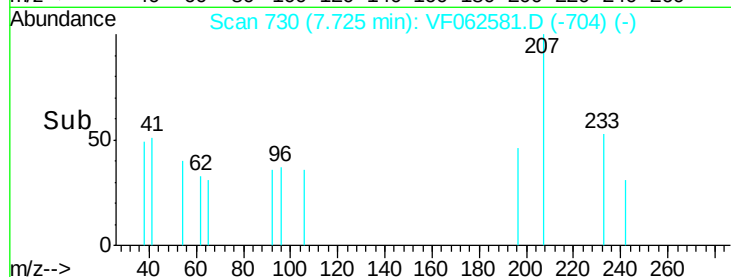
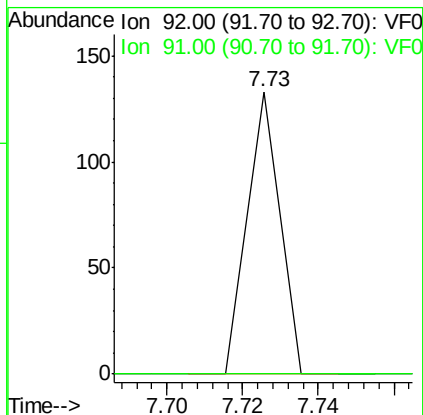
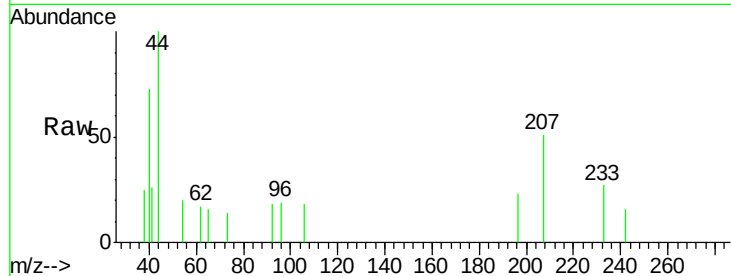
CULVER-CBTC-WC1-051019

Tot Ion: 92 Resp: 79

Ion Ratio Lower Upper

92 100

91 0.0 138.7 208.1#



#53

t-1,3-Dichloropropene

Concen: 28.459 ug/l

RT: 8.54 min Scan# 813

Delta R.T. 0.12 min

Lab File: VF062581.D

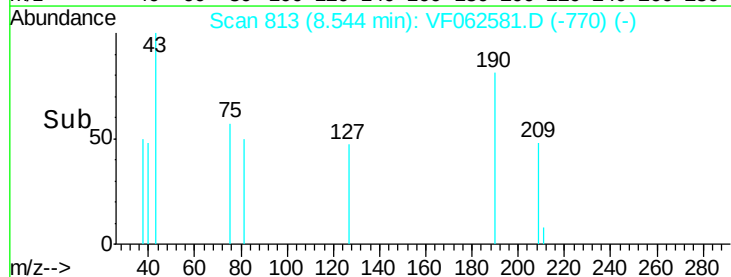
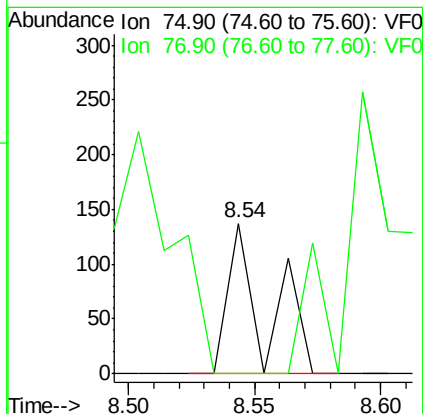
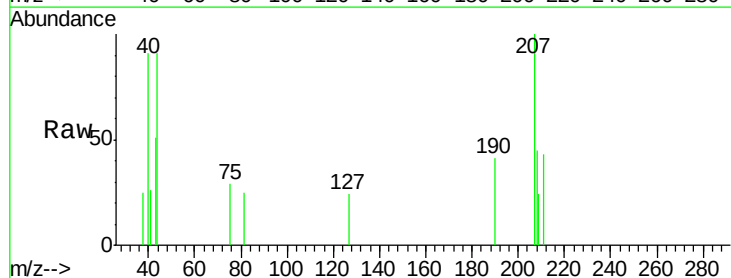
Acq: 14 May 2019 11:02

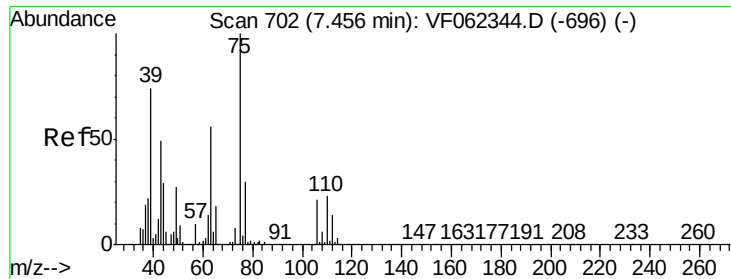
Tgt Ion: 75 Resp: 143

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#





#54

cis-1,3-Dichloropropene

Concen: 12.996 ug/l

RT: 7.50 min Scan# 707

Delta R.T. 0.04 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

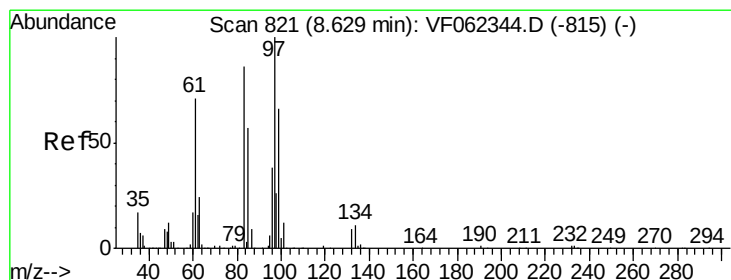
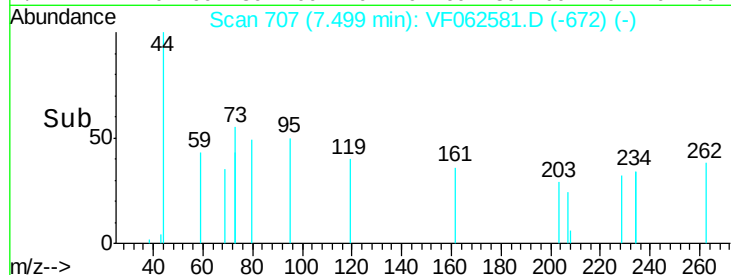
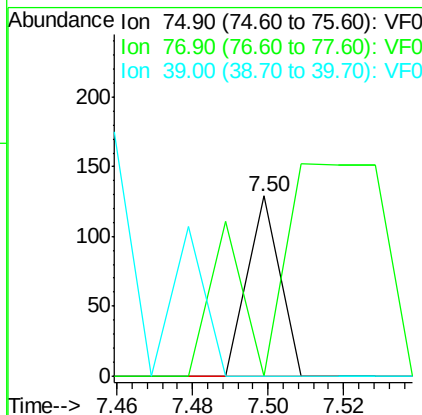
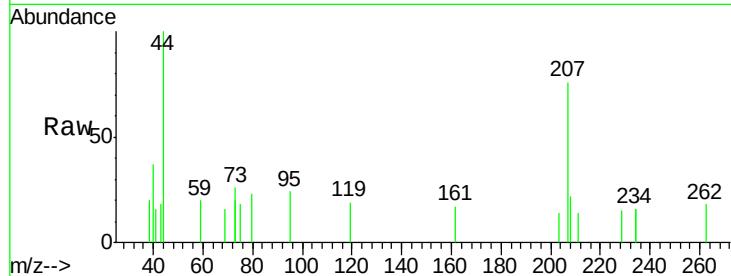
Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

Tot Ion:	75	Resp:	76
Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.0	36.0#
39	0.0	58.7	88.1#



#55

1,1,2-Trichloroethane

Concen: 23.457 ug/l

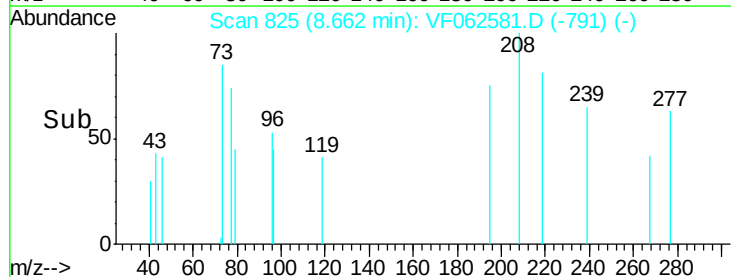
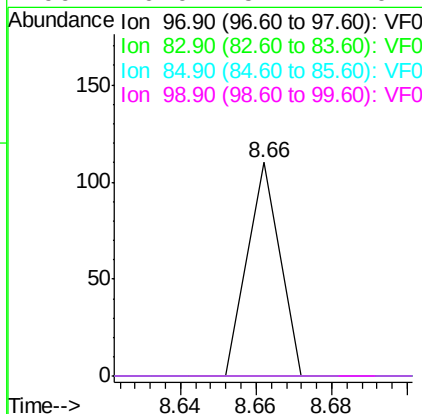
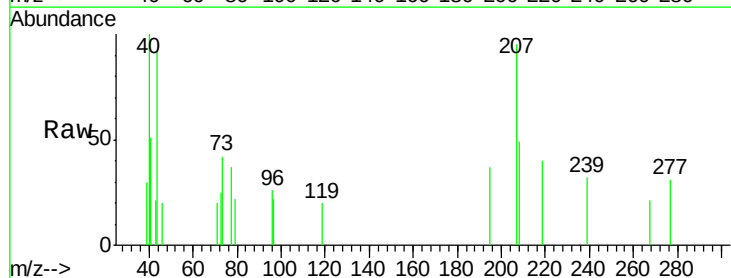
RT: 8.66 min Scan# 825

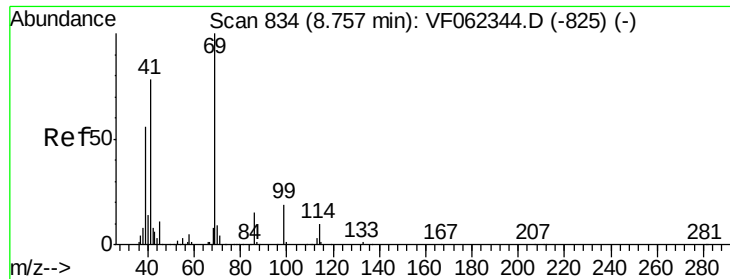
Delta R.T. 0.03 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Tgt Ion:	97	Resp:	65
Ion	Ratio	Lower	Upper
97	100		
83	0.0	68.5	102.7#
85	0.0	45.4	68.2#
99	0.0	52.7	79.1#





#56

Ethyl methacrylate

Concen: 30.426 ug/l

RT: 8.80 min Scan# 839

Delta R.T. 0.04 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

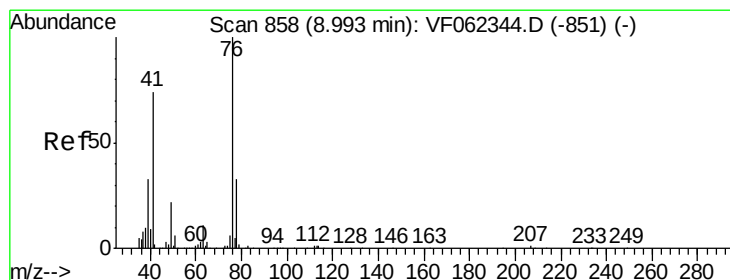
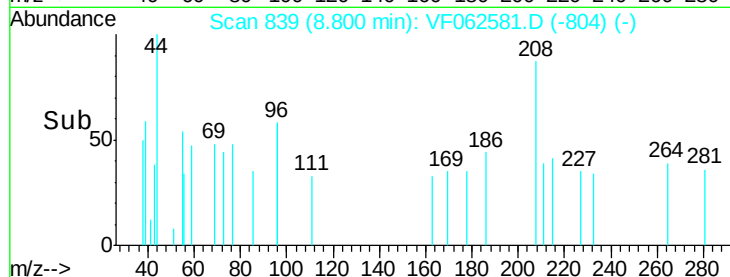
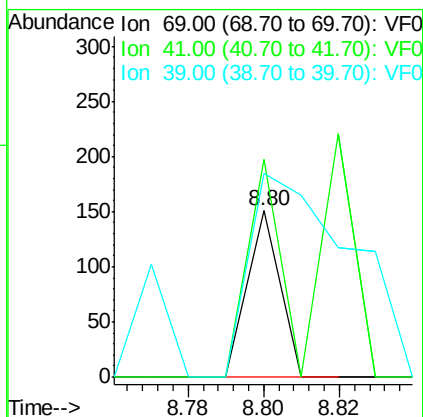
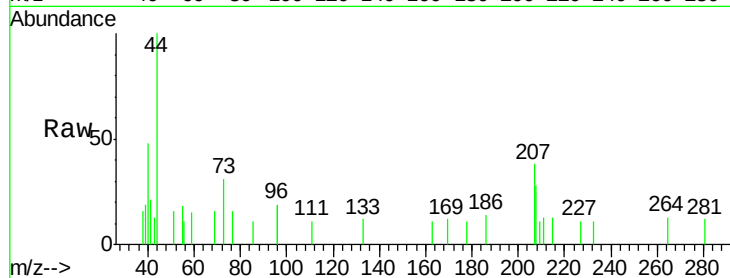
Tot Ion: 69 Resp: 89

Ion Ratio Lower Upper

69 100

41 278.7 66.3 99.5#

39 386.5 50.1 75.1#



#57

1,3-Dichloropropane

Concen: 36.553 ug/l

RT: 8.88 min Scan# 847

Delta R.T. -0.11 min

Lab File: VF062581.D

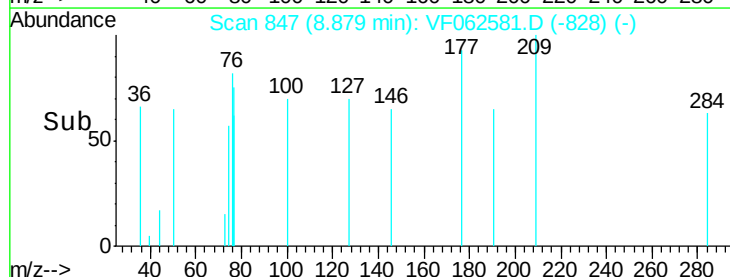
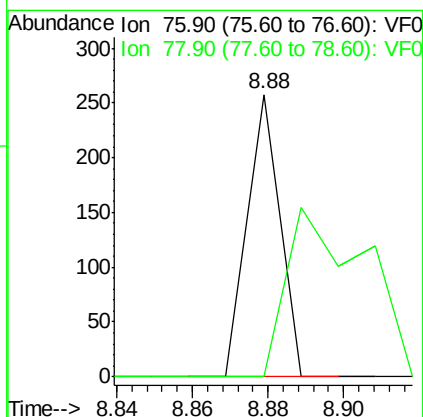
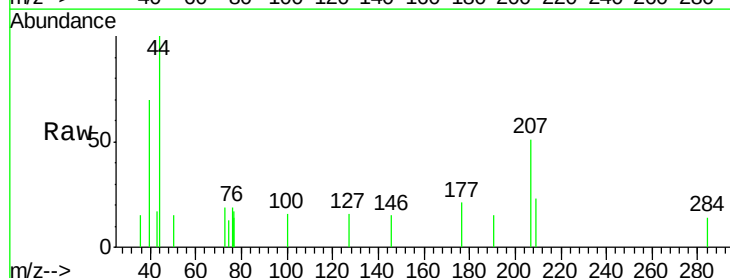
Acq: 14 May 2019 11:02

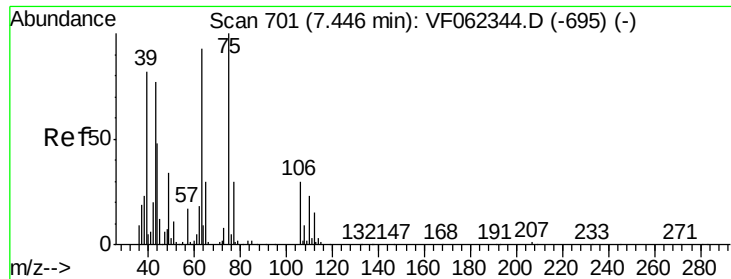
Tgt Ion: 76 Resp: 153

Ion Ratio Lower Upper

76 100

78 144.4 26.4 39.6#





#58

2-Chloroethyl Vinyl ether

Concen: 80.736 ug/l

RT: 7.39 min Scan# 696

Delta R.T. -0.06 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

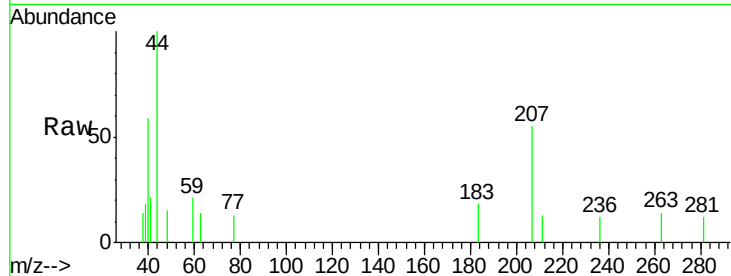
CULVER-CBTC-WC1-051019

Tot Ion: 63 Resp: 71

Ion Ratio Lower Upper

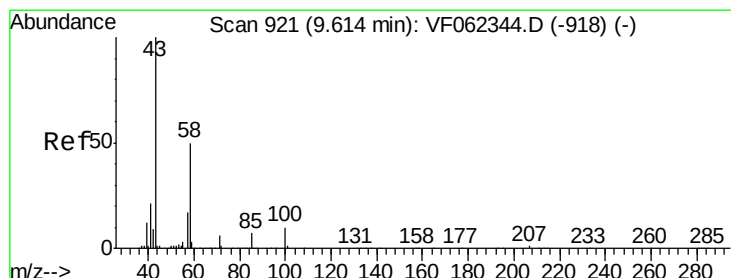
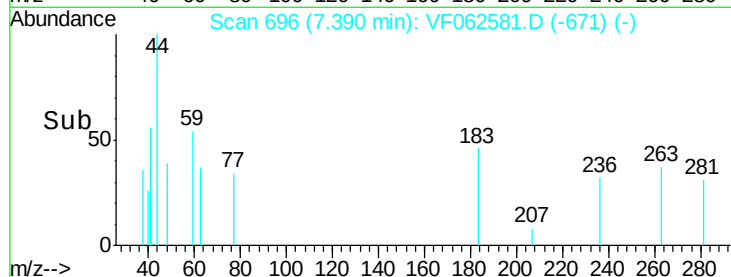
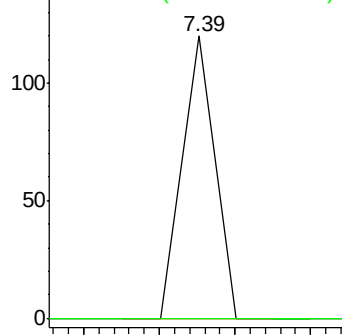
63 100

106 0.0 25.8 38.8#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V



#59

2-Hexanone

Concen: 78.347 ug/l

RT: 9.42 min Scan# 902

Delta R.T. -0.19 min

Lab File: VF062581.D

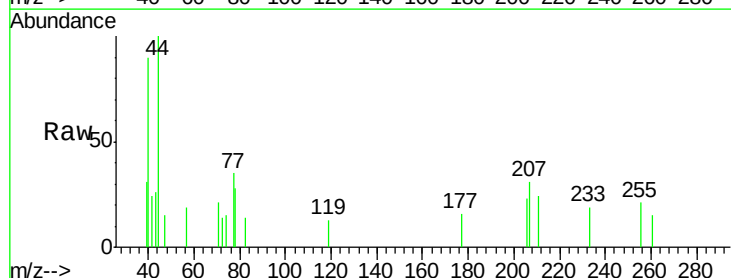
Acq: 14 May 2019 11:02

Tgt Ion: 43 Resp: 120

Ion Ratio Lower Upper

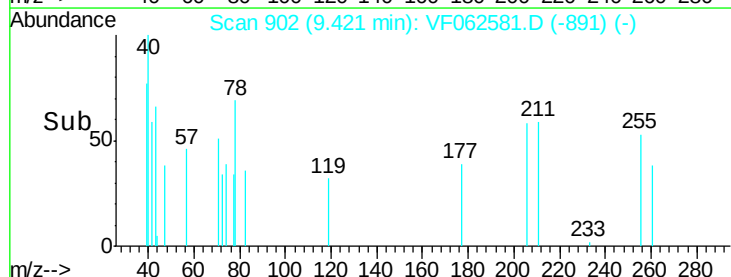
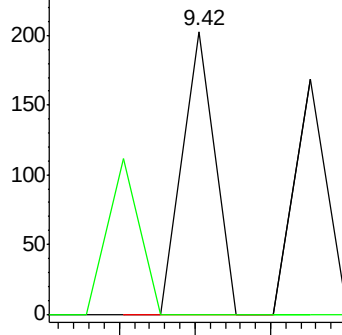
43 100

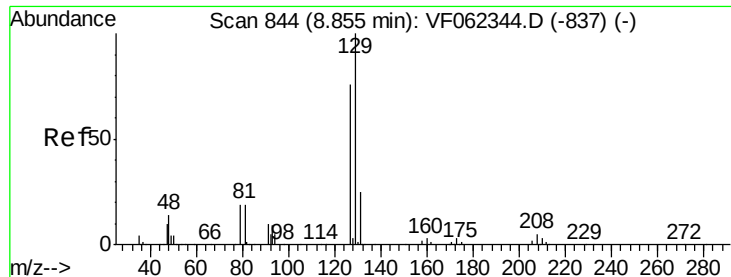
58 55.0 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#60

Dibromochloromethane

Concen: 22.506 ug/l

RT: 8.91 min Scan# 850

Delta R.T. 0.05 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

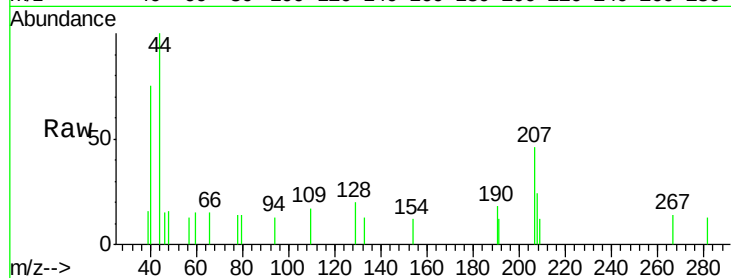
CULVER-CBTC-WC1-051019

Tot Ion:129 Resp: 102

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.91

150

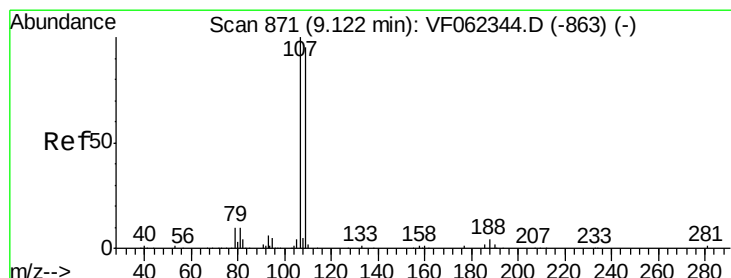
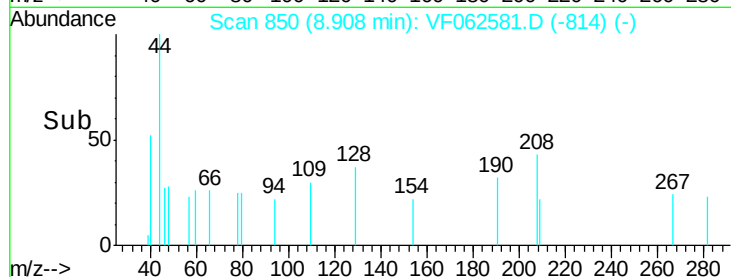
100

50

0

8.88 8.90 8.92 8.94

Time-->



#61

1,2-Dibromoethane

Concen: 18.116 ug/l

RT: 9.23 min Scan# 883

Delta R.T. 0.11 min

Lab File: VF062581.D

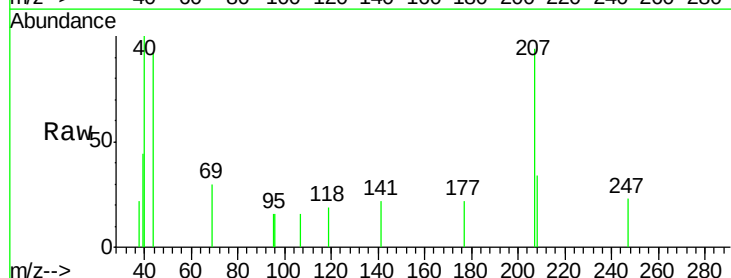
Acq: 14 May 2019 11:02

Tgt Ion:107 Resp: 59

Ion Ratio Lower Upper

107 100

109 0.0 75.2 112.8#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.23

100

80

60

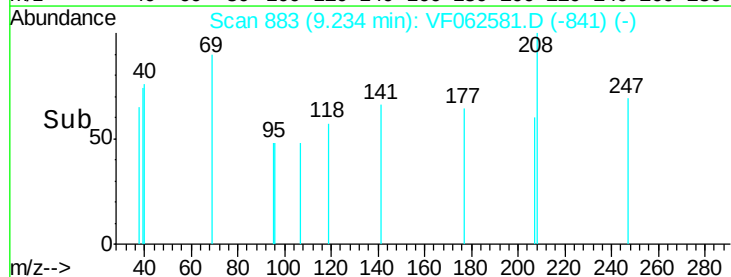
40

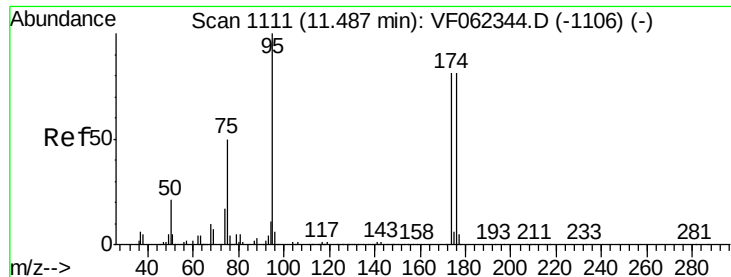
20

0

9.20 9.22 9.24 9.26

Time-->





#62

4-Bromofluorobenzene

Concen: 11.370 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

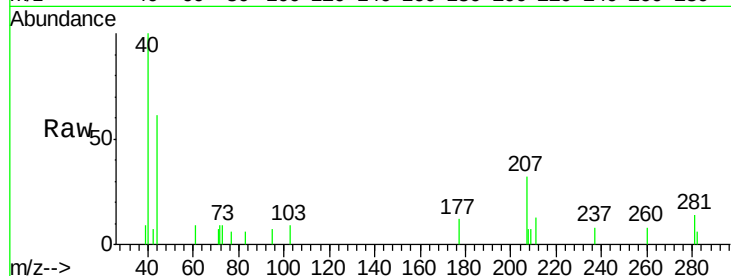
Tot Ion: 95 Resp: 74

Ion Ratio Lower Upper

95 100

174 0.0 0.0 191.8

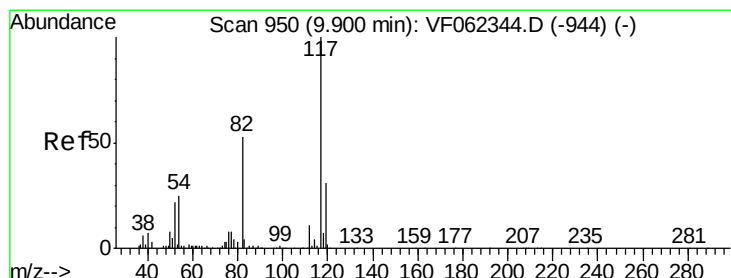
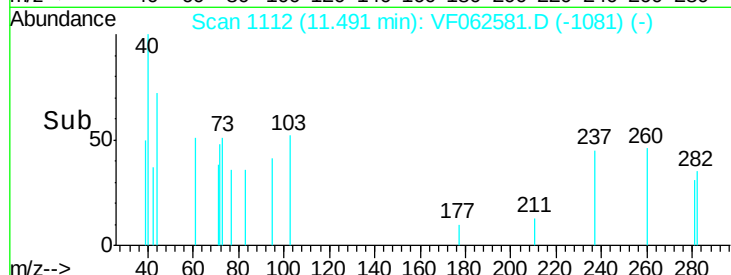
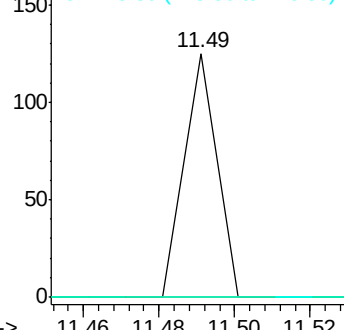
176 0.0 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 954

Delta R.T. 0.03 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

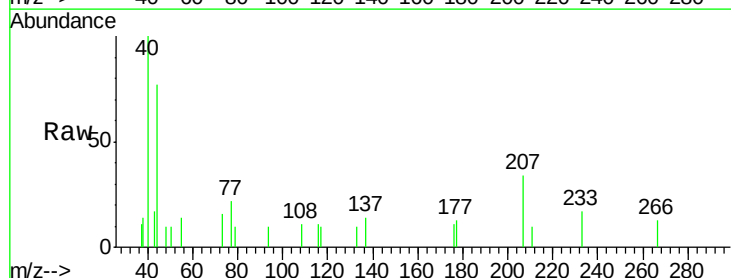
Tgt Ion: 117 Resp: 60

Ion Ratio Lower Upper

117 100

82 0.0 42.2 63.2#

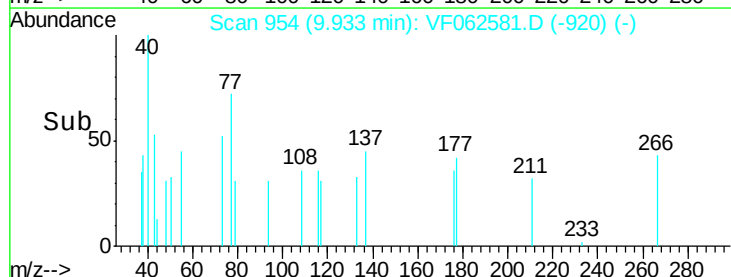
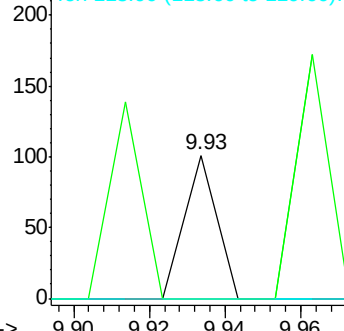
119 0.0 25.0 37.4#

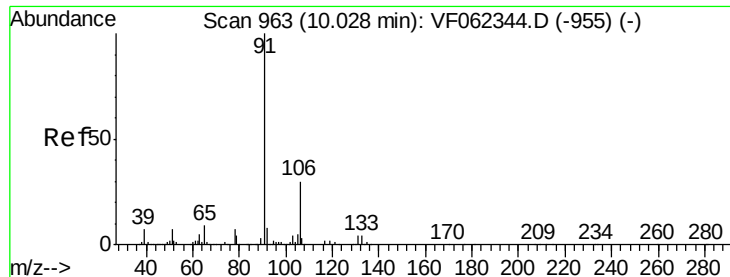


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 37.391 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

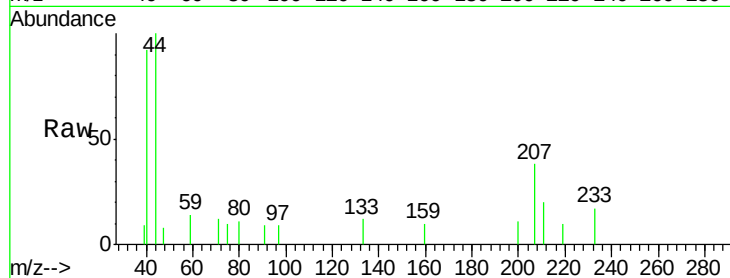
CULVER-CBTC-WC1-051019

Tot Ion: 91 Resp: 65

Ion Ratio Lower Upper

91 100

106 0.0 24.1 36.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.04

100

80

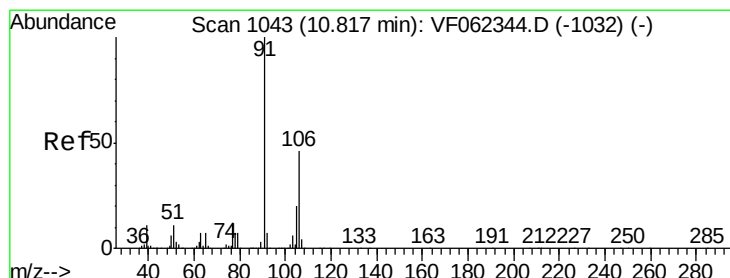
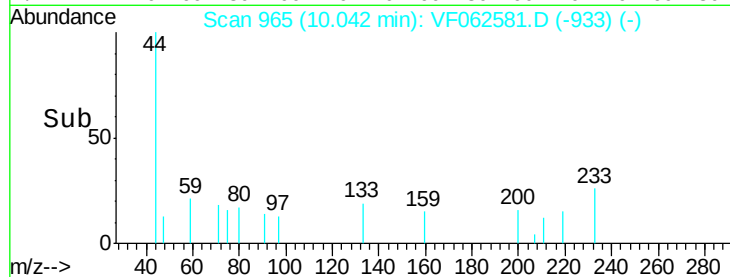
60

40

20

0

Time-->



#69

o-Xylene

Concen: 90.899 ug/l

RT: 10.72 min Scan# 1034

Delta R.T. -0.10 min

Lab File: VF062581.D

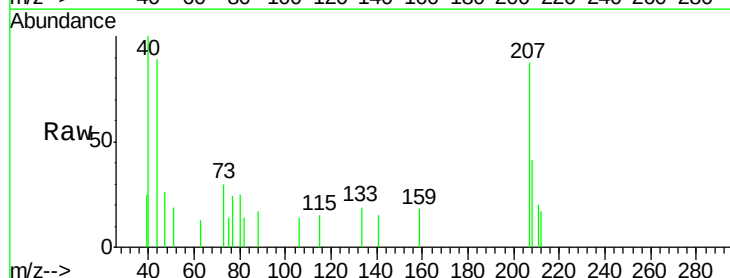
Acq: 14 May 2019 11:02

Tgt Ion: 106 Resp: 63

Ion Ratio Lower Upper

106 100

91 0.0 111.3 333.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

10.72

100

80

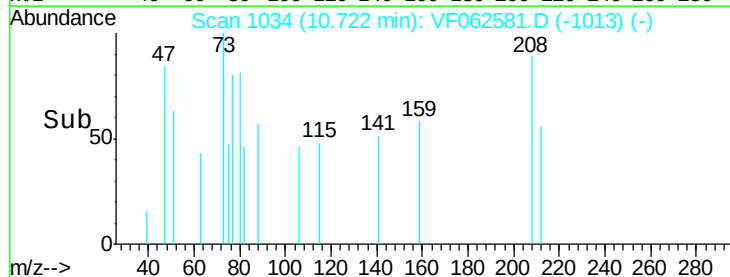
60

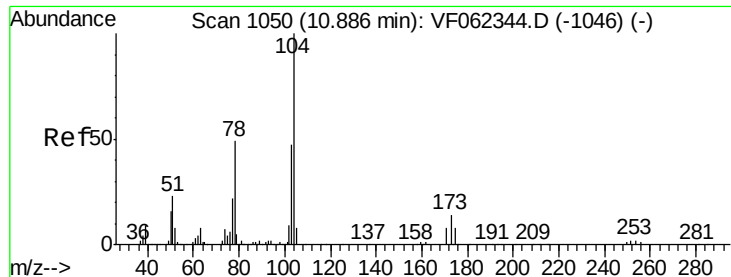
40

20

0

Time-->





#70

Stvrene

Concen: 64.503 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

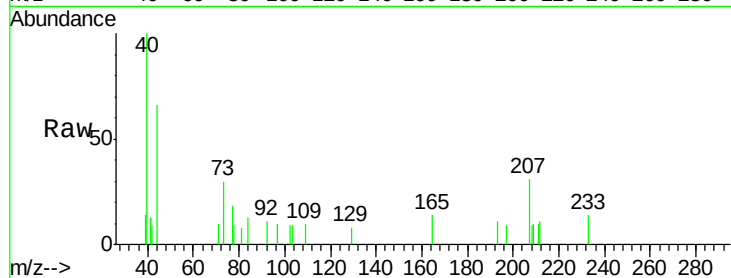
Tot Ion:104 Resp: 67

Ion Ratio Lower Upper

104 100

78 138.8 39.5 59.3#

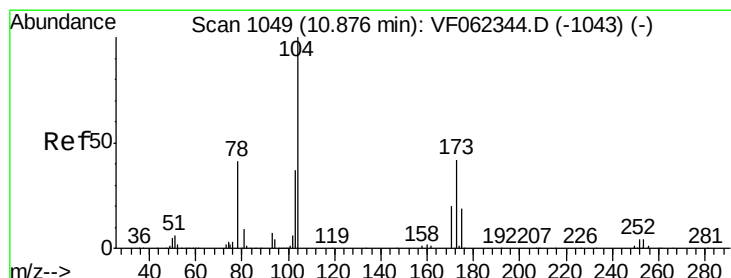
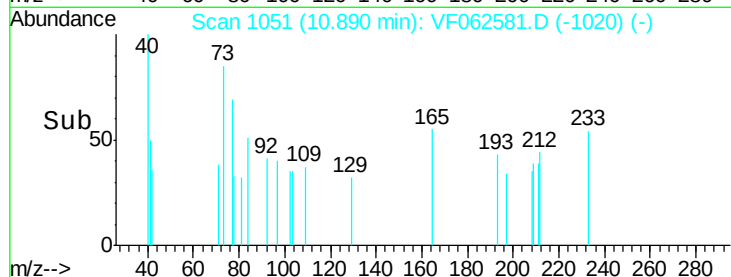
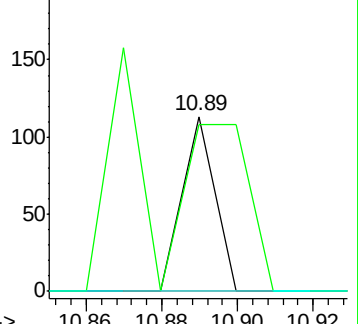
103 0.0 38.4 57.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 266.066 ug/l

RT: 10.68 min Scan# 1030

Delta R.T. -0.19 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

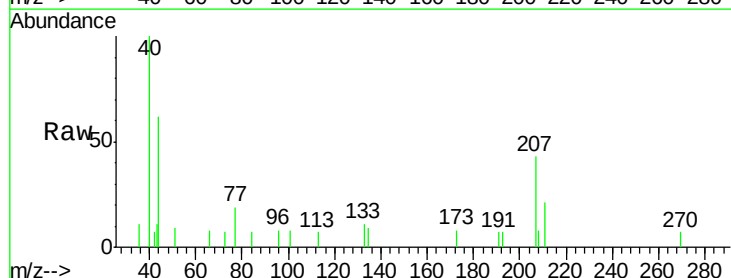
Tgt Ion:173 Resp: 73

Ion Ratio Lower Upper

173 100

175 0.0 23.8 71.2#

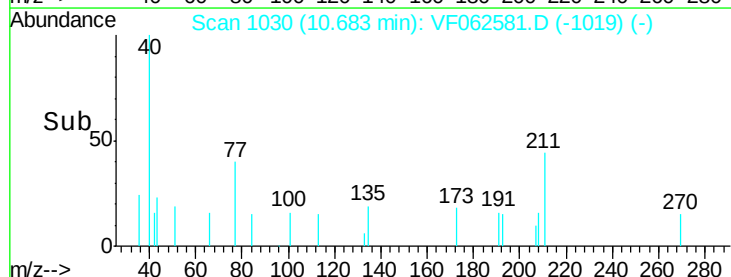
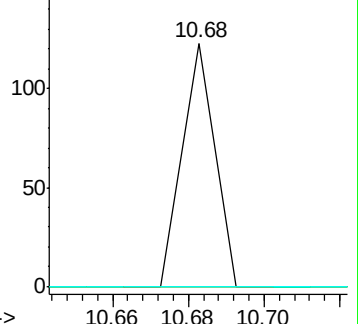
254 0.0 0.1 0.1#

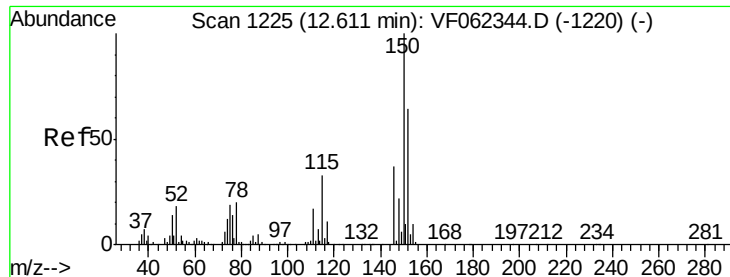


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



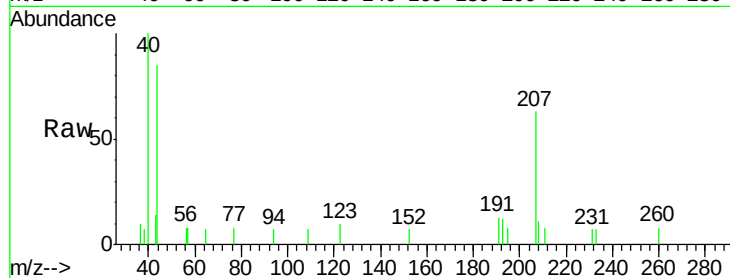


#72

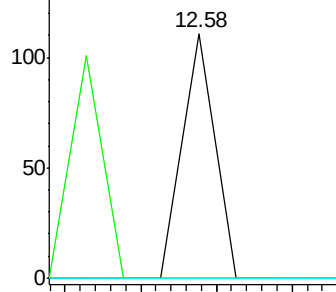
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.58 min Scan# 1222
Delta R.T. -0.04 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

Instrument :
MSVOA_F
ClientSampleId :
CULVER-CBTC-WC1-051019

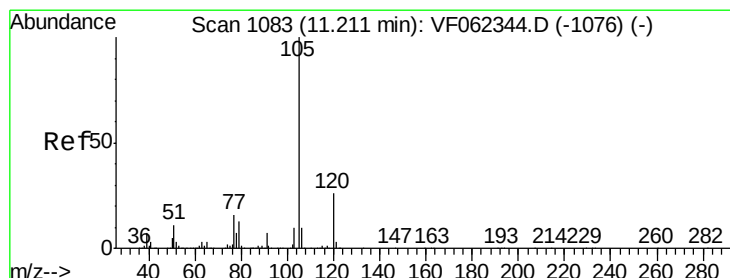
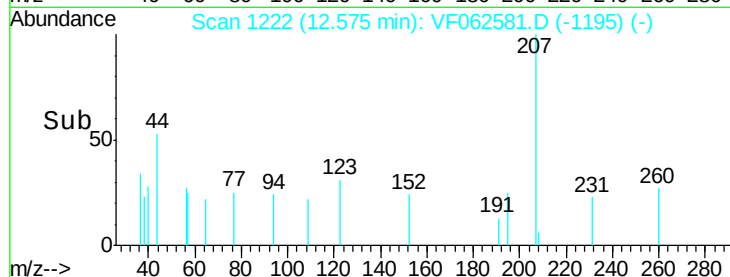
Tot Ion	Ratio	Lower	Upper
152	100		
115	0.0	26.4	79.2#
150	0.0	0.0	335.0



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



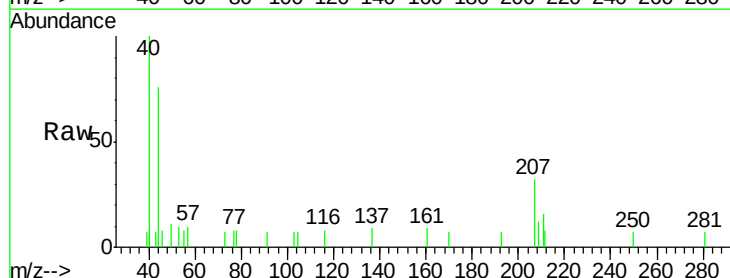
Time-->



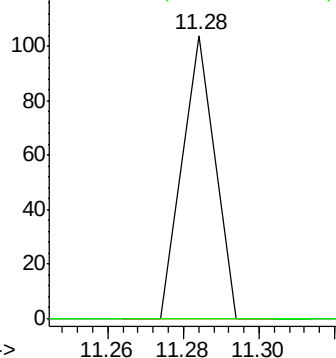
#73

Isopropylbenzene
Concen: 15.846 ug/l
RT: 11.28 min Scan# 1091
Delta R.T. 0.07 min
Lab File: VF062581.D
Acq: 14 May 2019 11:02

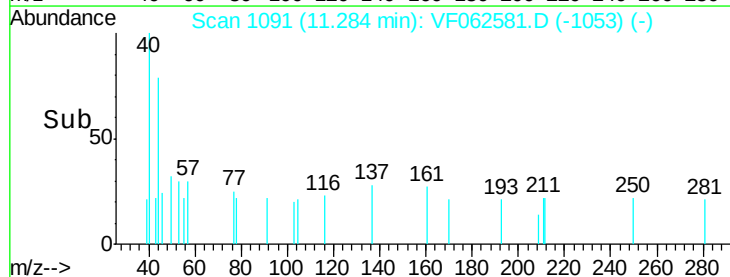
Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.7	38.0#

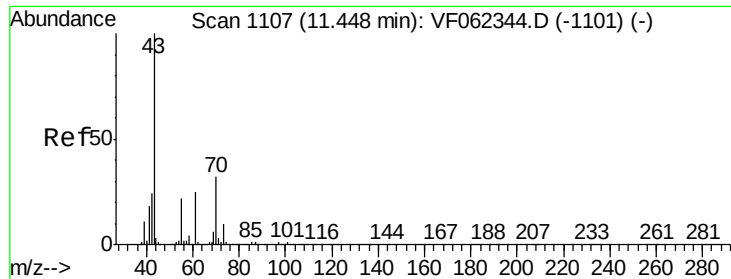


Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



Time-->





#74

N-amvl acetate

Concen: 249.997 ug/l

RT: 11.42 min Scan# 1105

Delta R.T. -0.03 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

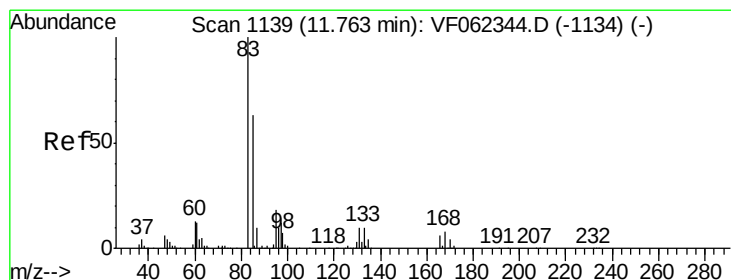
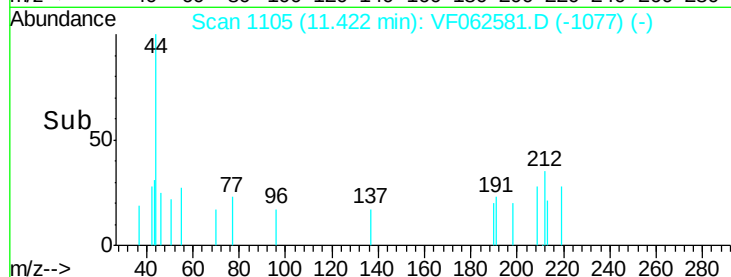
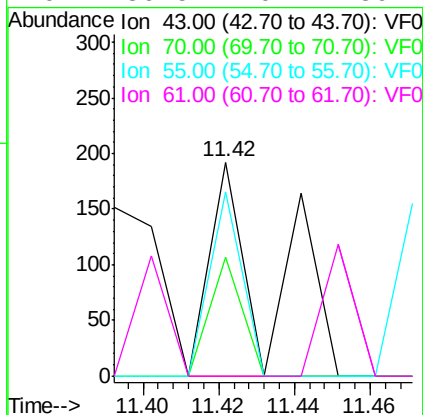
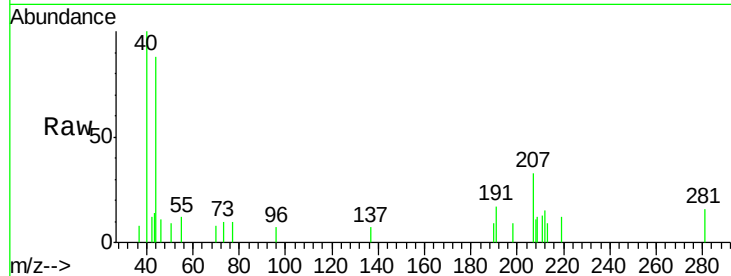
Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

Tot Ion:	43	Resp:	210
Ion	Ratio	Lower	Upper
43	100		
70	30.0	26.5	39.7
55	46.7	17.8	26.6#
61	30.5	20.2	30.2#



#75

1,1,2,2-Tetrachloroethane

Concen: 102.834 ug/l

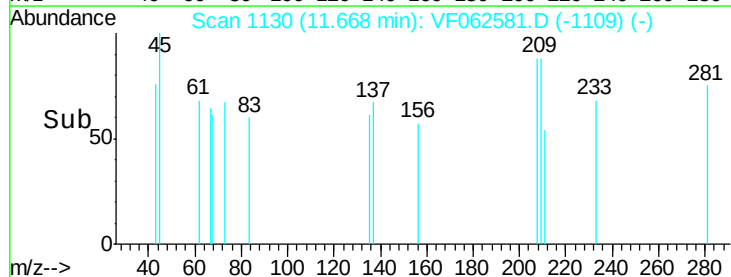
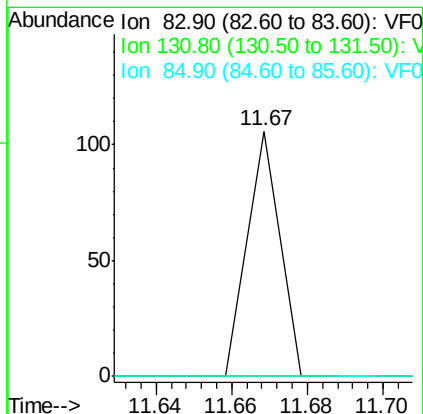
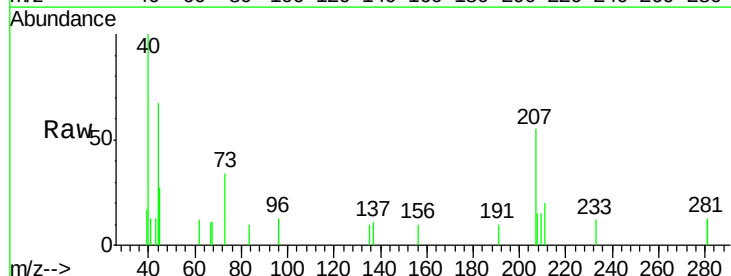
RT: 11.67 min Scan# 1130

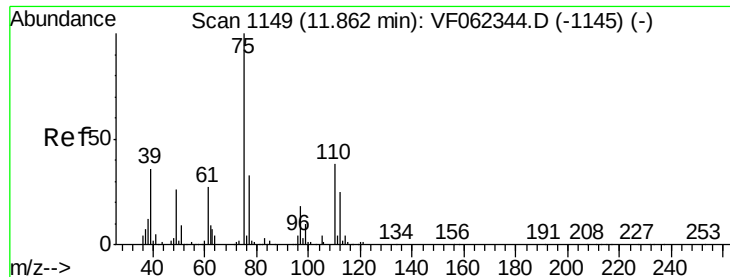
Delta R.T. -0.10 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Tgt Ion:	83	Resp:	63
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.8	17.4#
85	0.0	35.3	105.7#





#76

1,2,3-Trichloropropane

Concen: 143.345 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

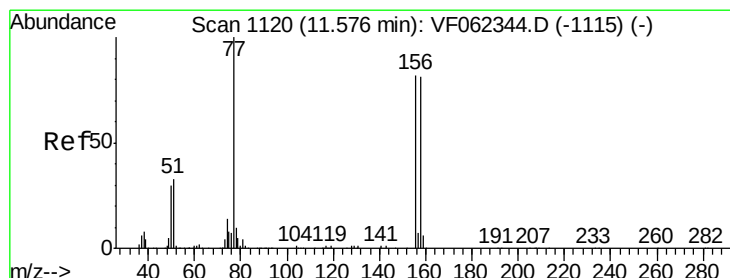
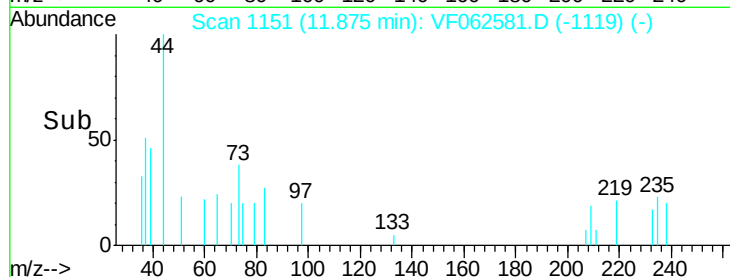
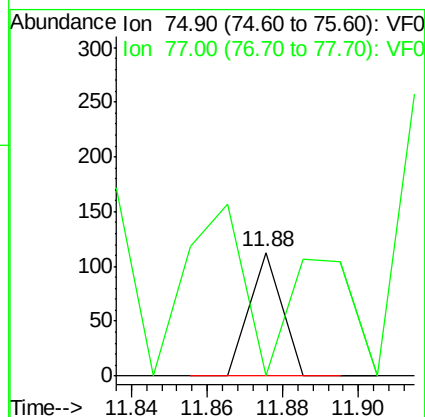
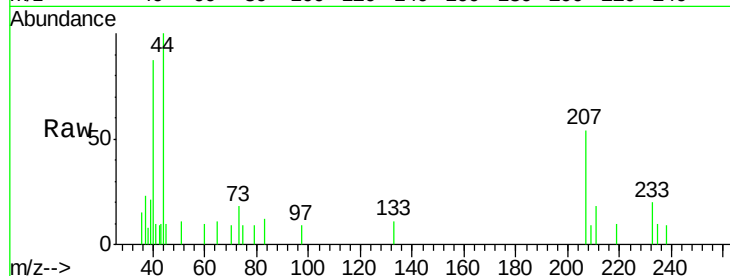
CULVER-CBTC-WC1-051019

Tot Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

77 243.3 0.0 0.0#



#77

Bromobenzene

Concen: 58.429 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. 0.09 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

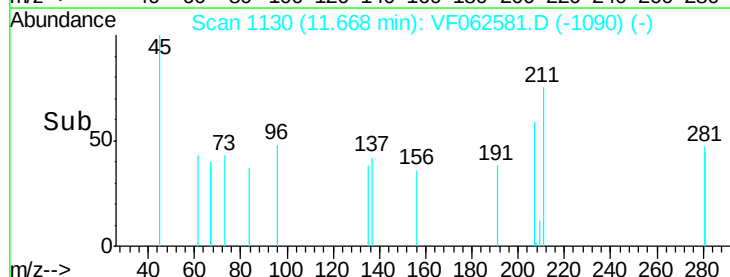
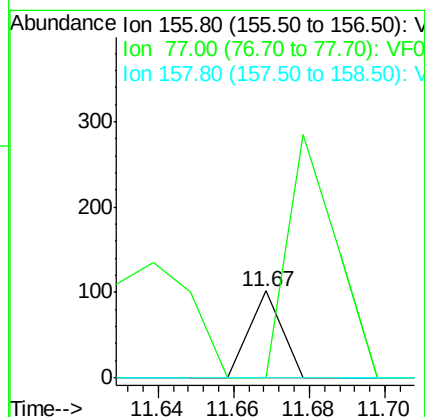
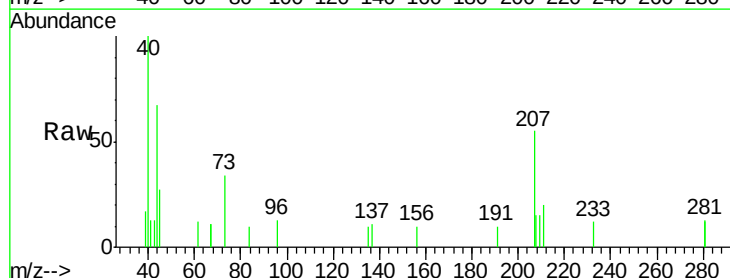
Tgt Ion: 156 Resp: 60

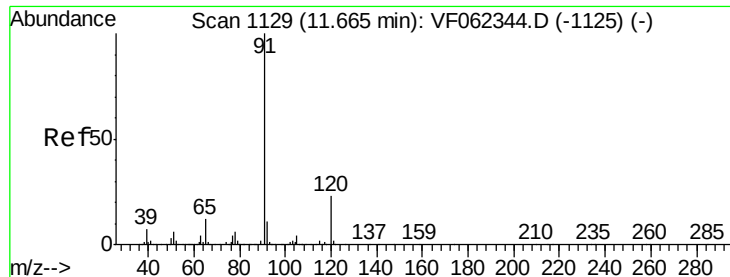
Ion Ratio Lower Upper

156 100

77 425.0 64.8 194.3#

158 0.0 49.1 147.3#





#78

n-propylbenzene

Concen: 17.284 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. -0.06 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

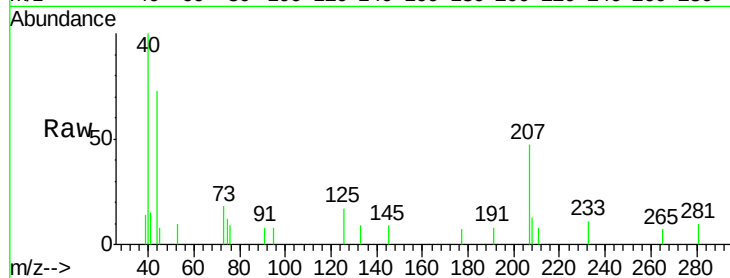
CULVER-CBTC-WC1-051019

Tot Ion: 91 Resp: 72

Ion Ratio Lower Upper

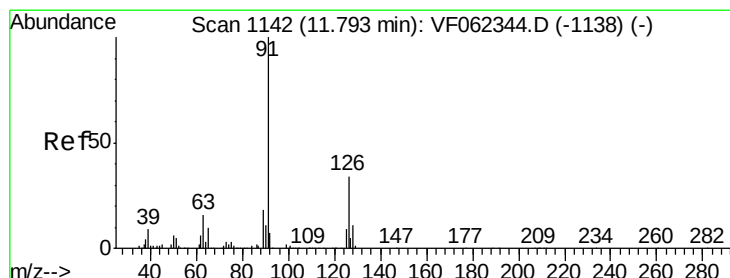
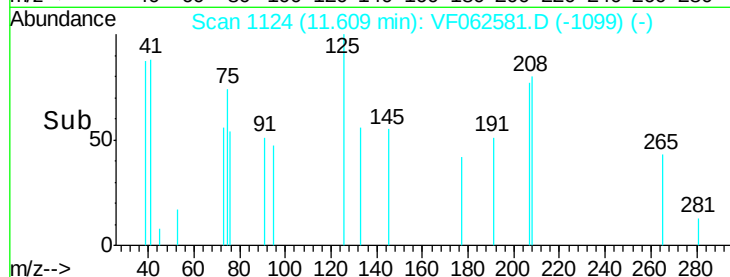
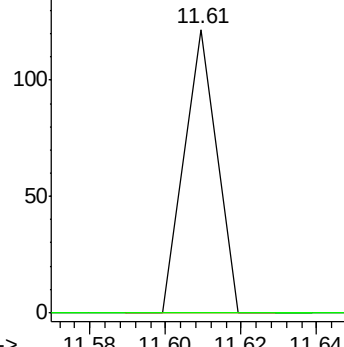
91 100

120 0.0 11.9 35.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 27.796 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. -0.18 min

Lab File: VF062581.D

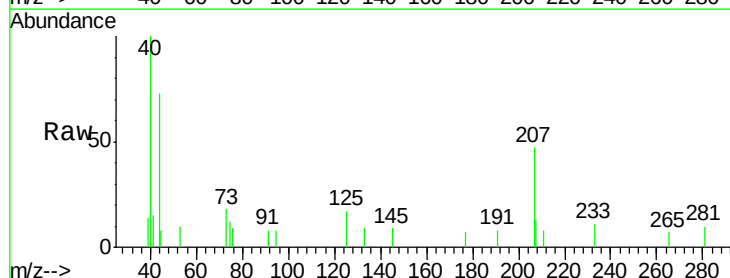
Acq: 14 May 2019 11:02

Tgt Ion: 91 Resp: 72

Ion Ratio Lower Upper

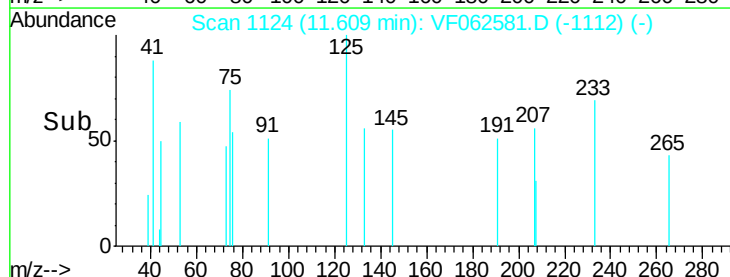
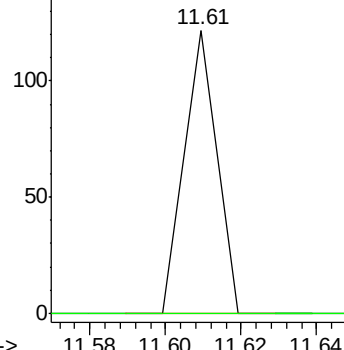
91 100

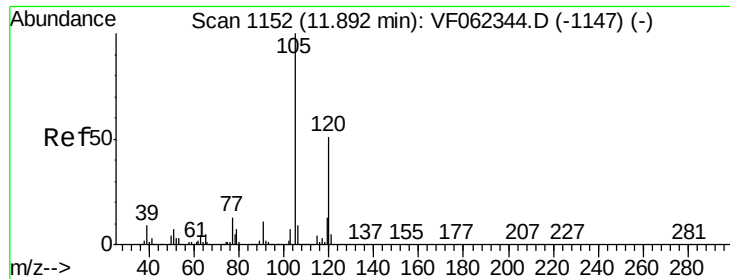
126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 24.202 ug/l

RT: 11.65 min Scan# 1128

Delta R.T. -0.24 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

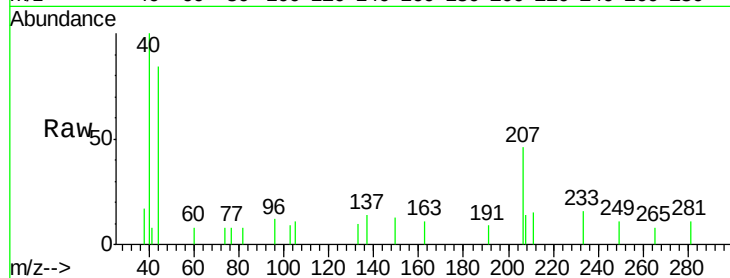
CULVER-CBTC-WC1-051019

Tot Ion:105 Resp: 83

Ion Ratio Lower Upper

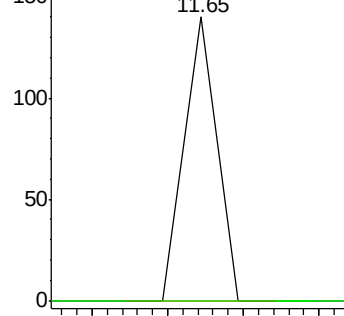
105 100

120 0.0 24.6 74.0#

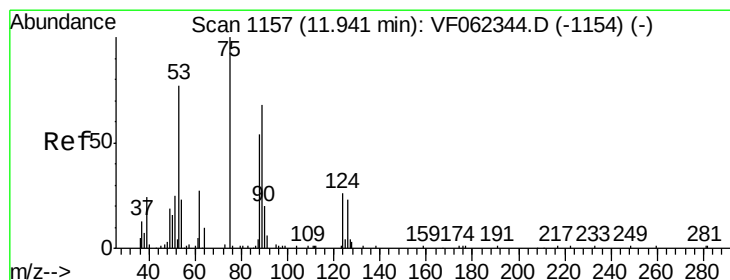
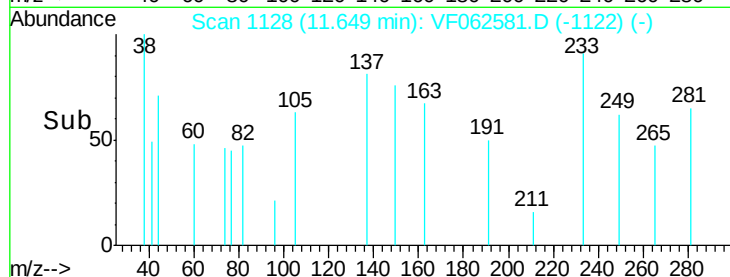


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 381.351 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.07 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

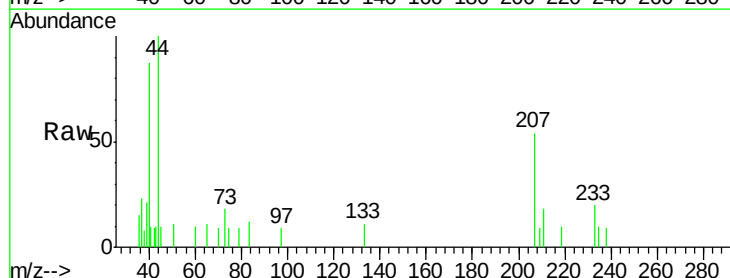
Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

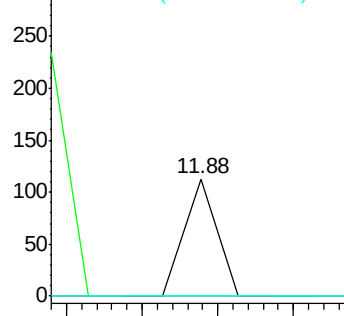
89 0.0 0.0 0.0



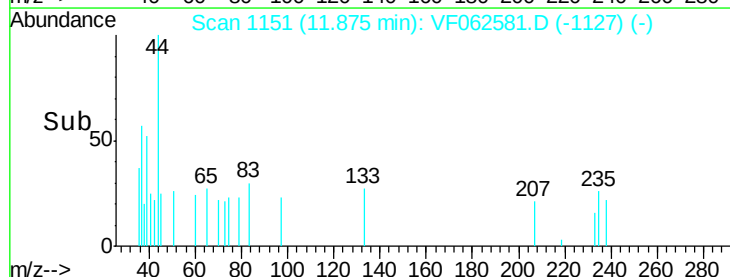
Abundance Ion 74.90 (74.60 to 75.60): VF0

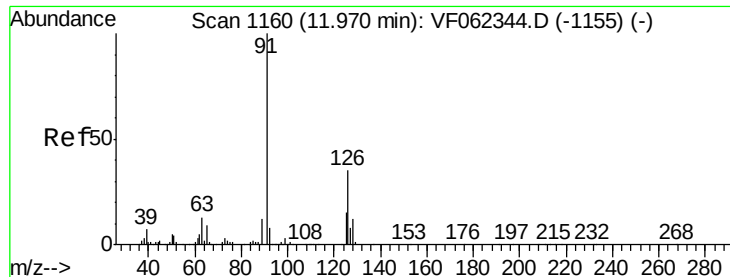
Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



Time-->





#82

4-Chlorotoluene

Concen: 26.970 ug/l

RT: 12.01 min Scan# 1165

Delta R.T. 0.04 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

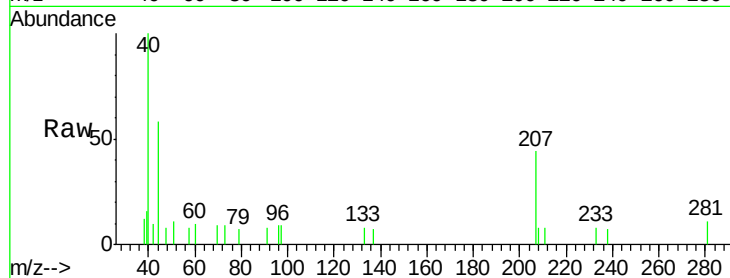
CULVER-CBTC-WC1-051019

Tot Ion: 91 Resp: 69

Ion Ratio Lower Upper

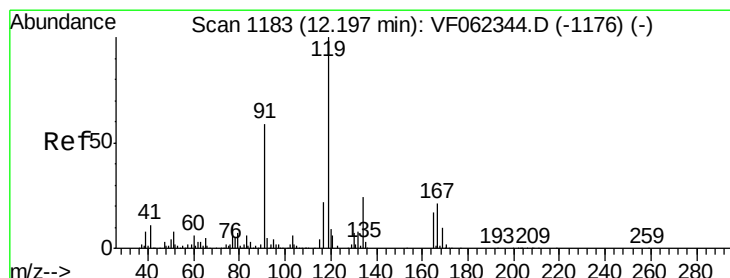
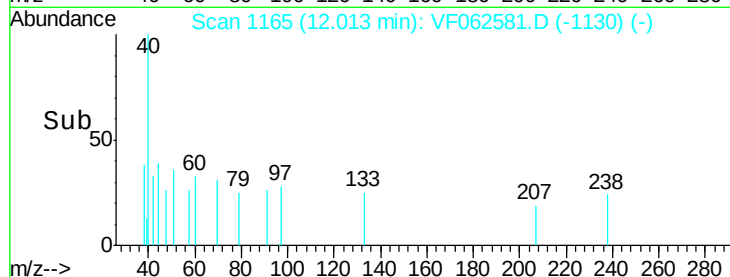
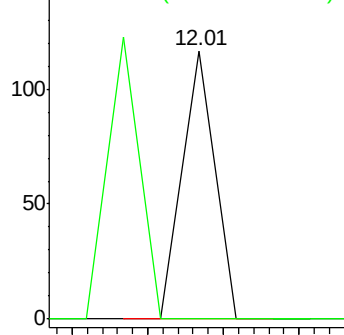
91 100

126 105.8 17.7 53.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



#83

tert-Butylbenzene

Concen: 22.196 ug/l

RT: 12.26 min Scan# 1190

Delta R.T. 0.06 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

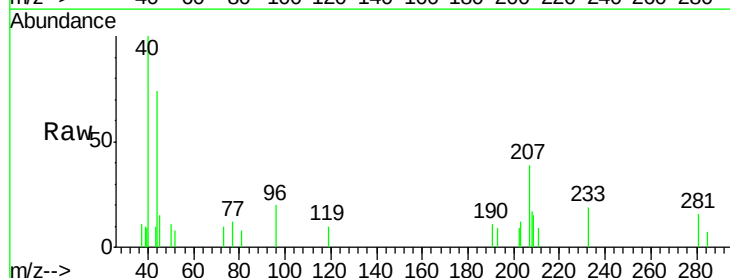
Tgt Ion: 119 Resp: 80

Ion Ratio Lower Upper

119 100

91 203.8 30.4 91.3#

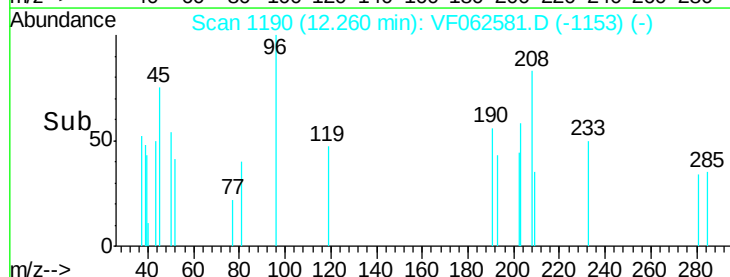
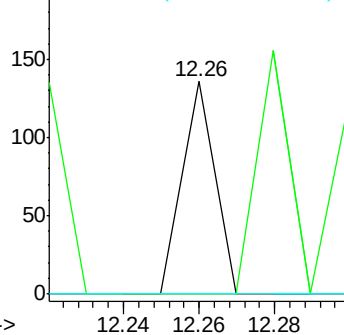
134 0.0 11.9 35.7#

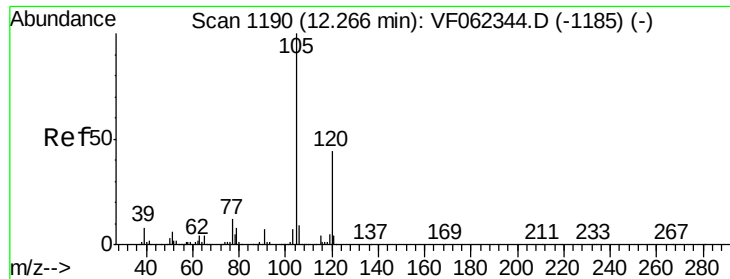


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

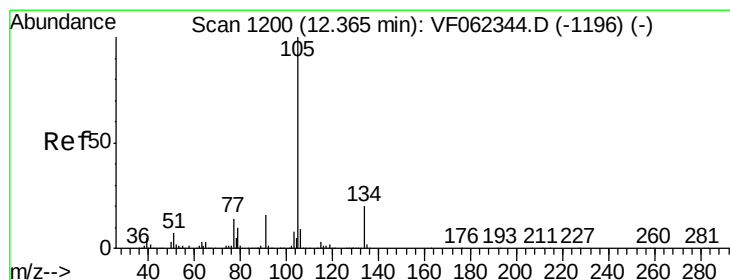
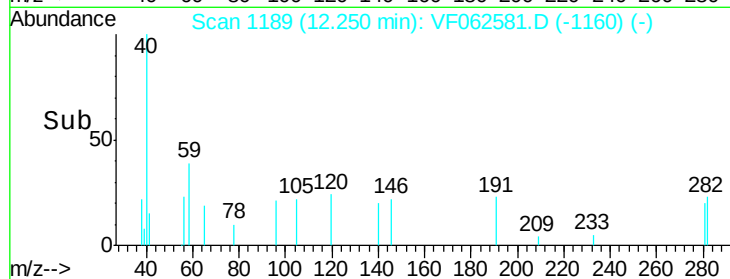
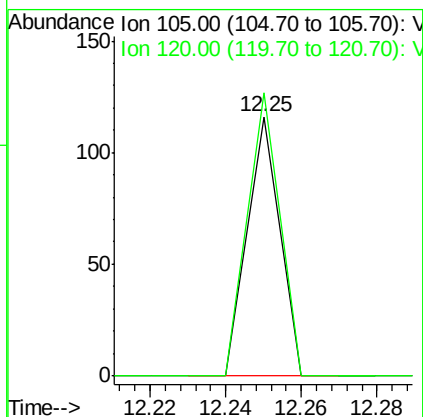
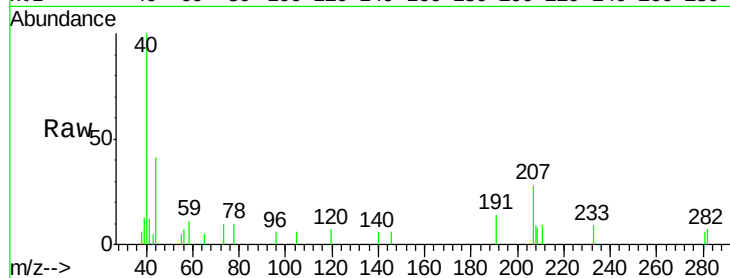




#84
 1,2,4-Trimethylbenzene
 Concen: 20.559 ug/l
 RT: 12.25 min Scan# 1189
 Delta R.T. -0.02 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

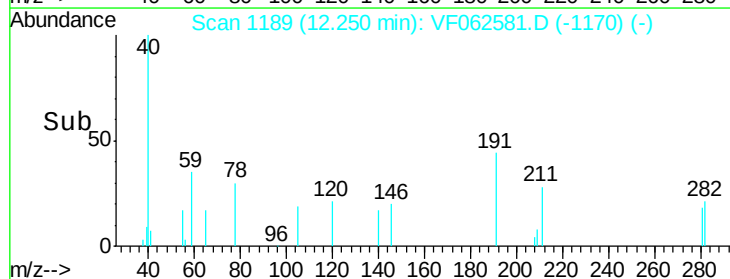
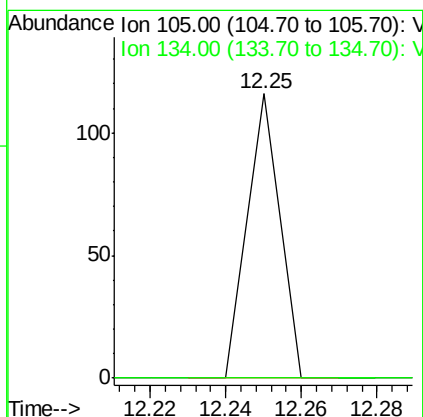
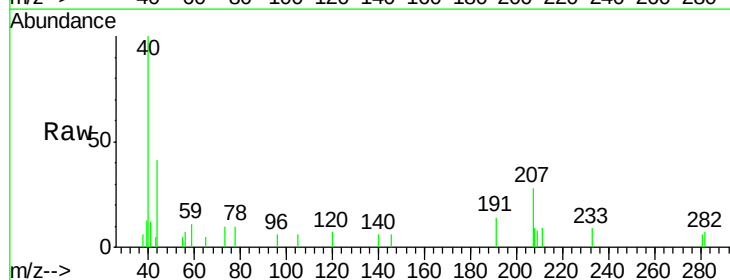
Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

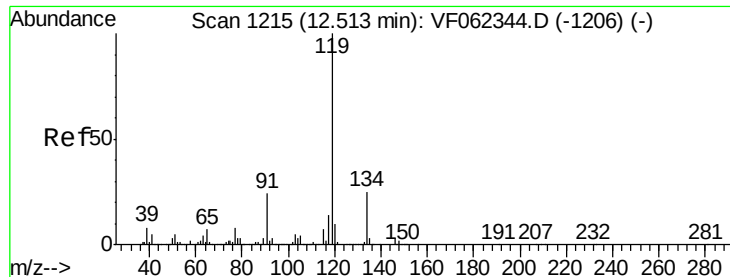
Tot Ion	Ratio	Lower	Upper
105	100		
120	108.7	22.6	67.7#



#85
 sec-Butylbenzene
 Concen: 15.728 ug/l
 RT: 12.25 min Scan# 1189
 Delta R.T. -0.11 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.0	9.8	29.5#

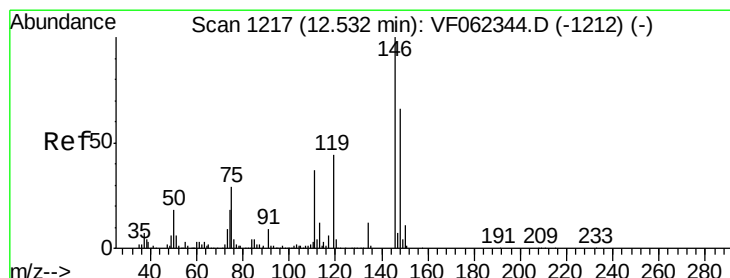
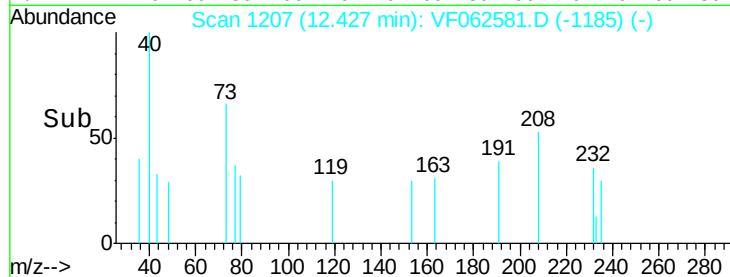
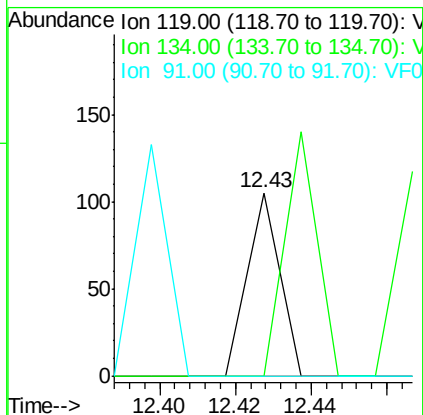
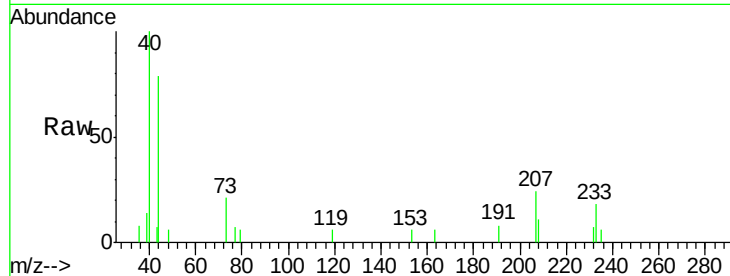




#86
 p-Isopropyltoluene
 Concen: 15.211 ug/l
 RT: 12.43 min Scan# 1207
 Delta R.T. -0.09 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

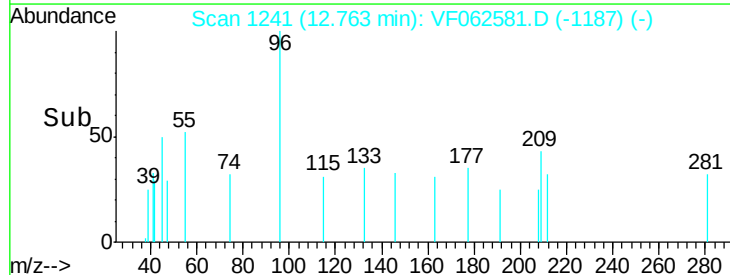
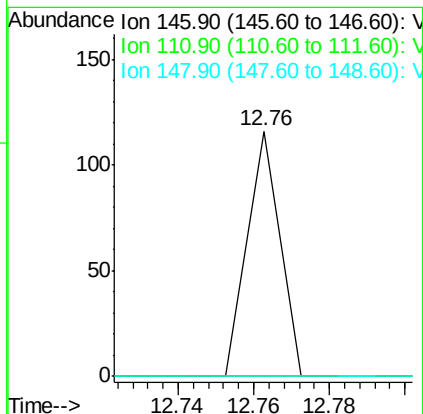
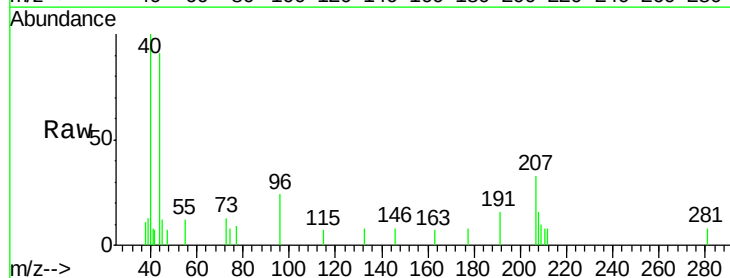
Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

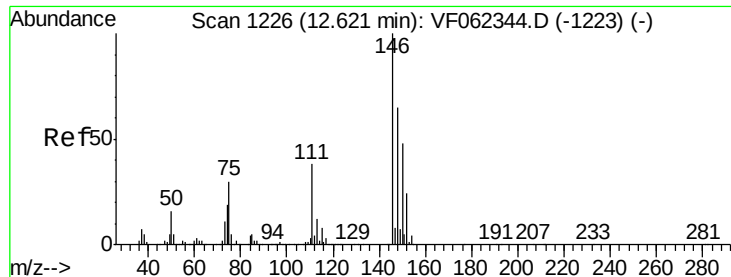
Tot Ion	Ratio	Lower	Upper
119	100		
134	133.9	12.9	38.7#
91	0.0	12.3	36.8#



#87
 1,3-Dichlorobenzene
 Concen: 36.791 ug/l
 RT: 12.76 min Scan# 1241
 Delta R.T. 0.23 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.3	54.8#
148	0.0	32.3	96.9#

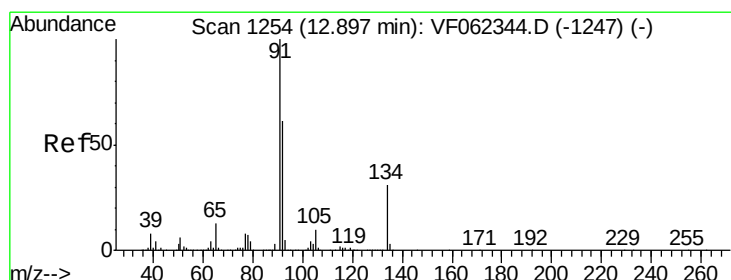
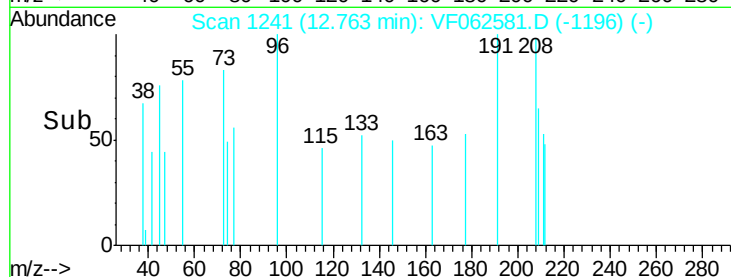
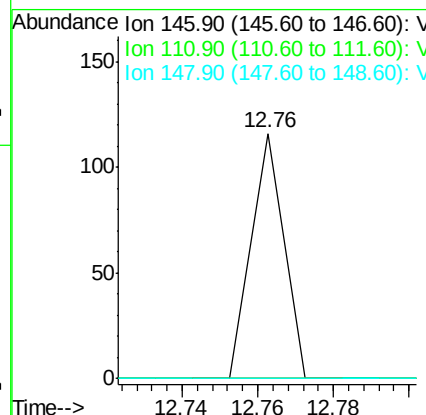
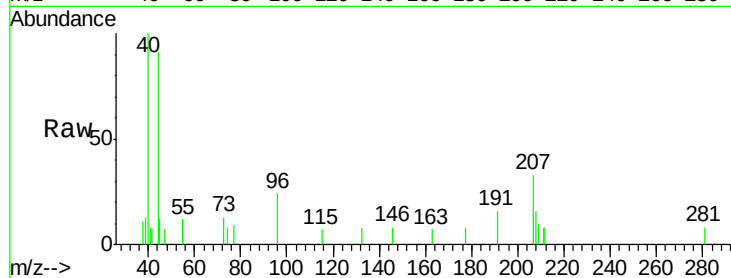




#88
 1,4-Dichlorobenzene
 Concen: 38.119 ug/l
 RT: 12.76 min Scan# 1241
 Delta R.T. 0.14 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

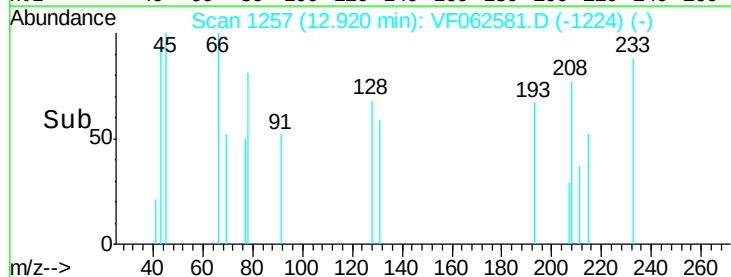
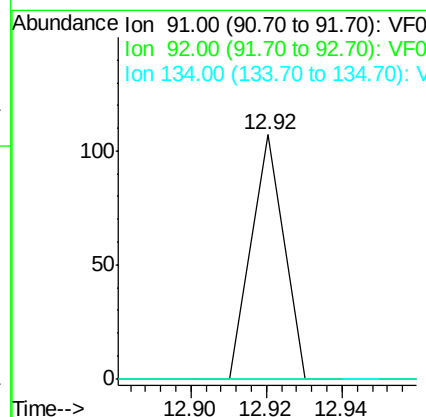
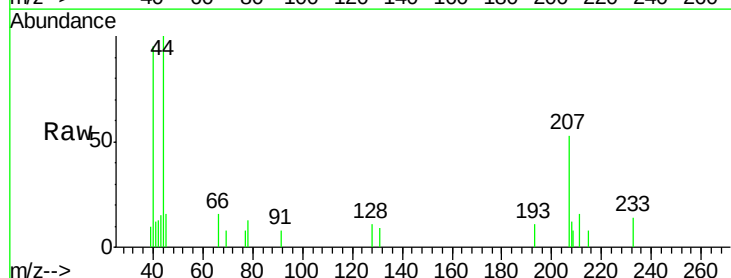
Instrument :
 MSVOA_F
 ClientSampleId :
 CULVER-CBTC-WC1-051019

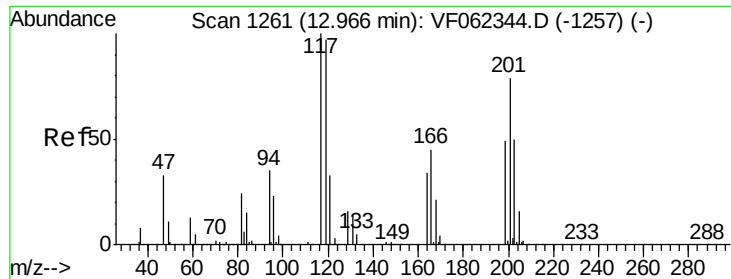
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.8	56.3#
148	0.0	32.2	96.6#



#89
 n-Butylbenzene
 Concen: 17.373 ug/l
 RT: 12.92 min Scan# 1257
 Delta R.T. 0.02 min
 Lab File: VF062581.D
 Acq: 14 May 2019 11:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	30.0	90.0#
134	0.0	14.1	42.4#





#90

Hexachloroethane

Concen: 61.904 ug/l

RT: 12.72 min Scan# 1237

Delta R.T. -0.24 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

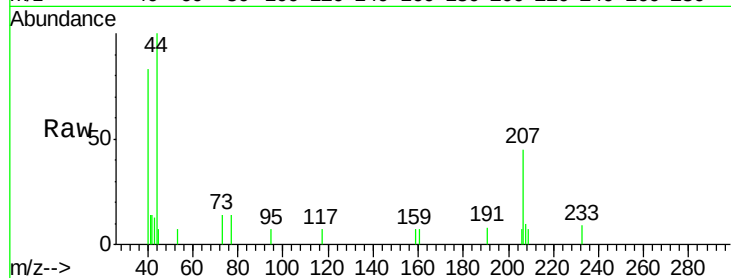
CULVER-CBTC-WC1-051019

Tot Ion:117 Resp: 63

Ion Ratio Lower Upper

117 100

201 0.0 46.2 138.5#

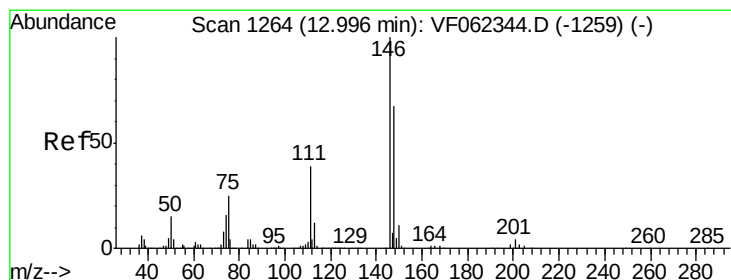
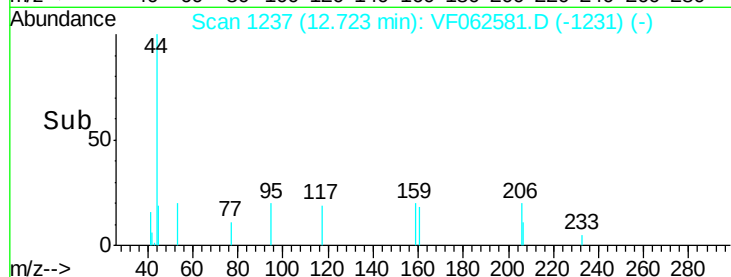


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.72

Time-->



#91

1,2-Dichlorobenzene

Concen: 38.011 ug/l

RT: 12.76 min Scan# 1241

Delta R.T. -0.23 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

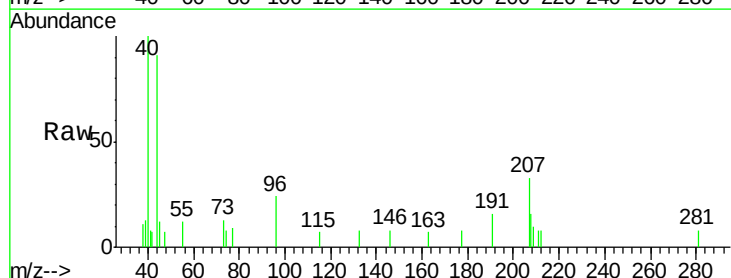
Tgt Ion:146 Resp: 69

Ion Ratio Lower Upper

146 100

111 0.0 20.0 60.0#

148 0.0 33.1 99.5#



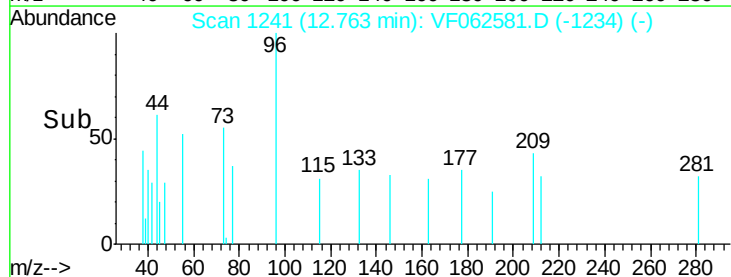
Abundance Ion 145.90 (145.60 to 146.60): V

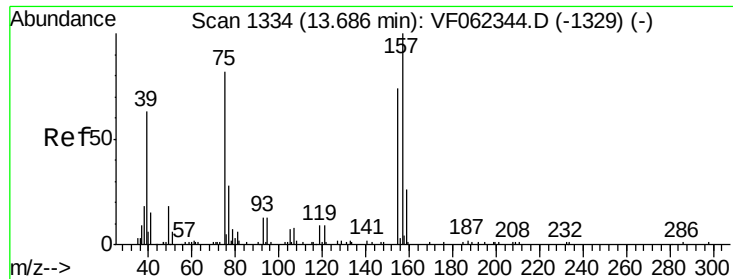
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

12.76

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 1122.043 ug/l

RT: 13.73 min Scan# 1339

Delta R.T. 0.04 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Instrument :

MSVOA_F

ClientSampleId :

CULVER-CBTC-WC1-051019

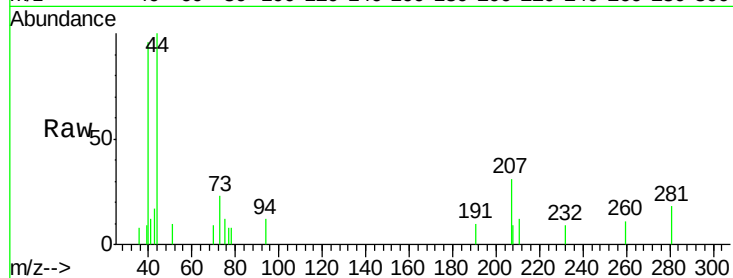
Tot Ion: 75 Resp: 154

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

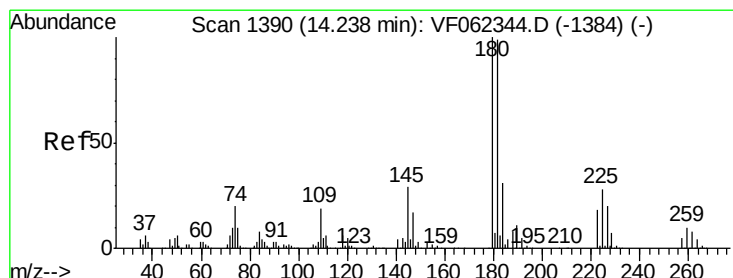
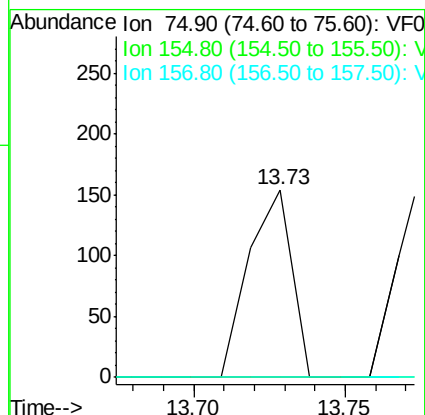
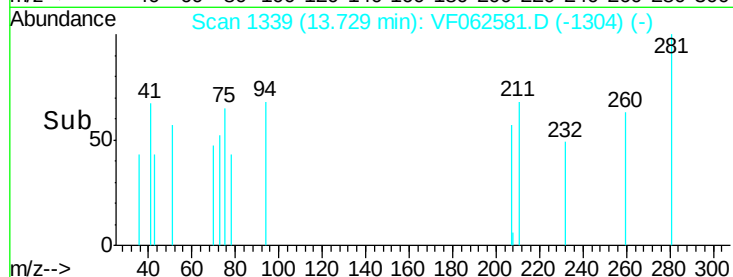
157 0.0 67.3 201.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 36.850 ug/l

RT: 14.23 min Scan# 1390

Delta R.T. -0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

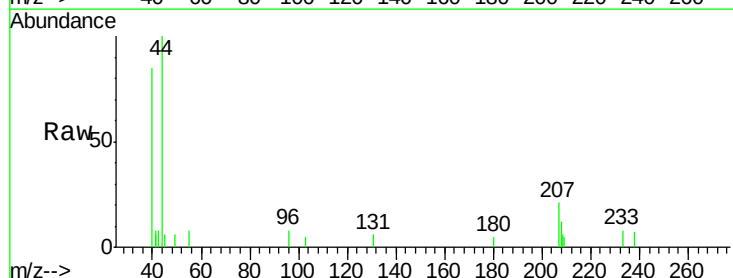
Tgt Ion: 180 Resp: 60

Ion Ratio Lower Upper

180 100

182 0.0 49.0 147.0#

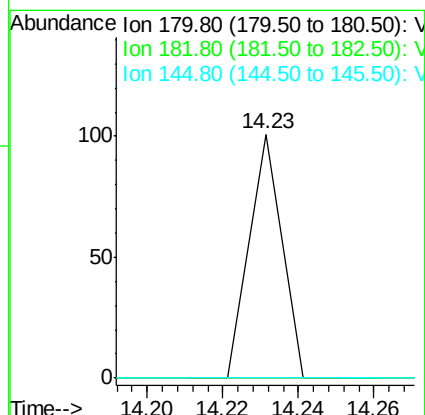
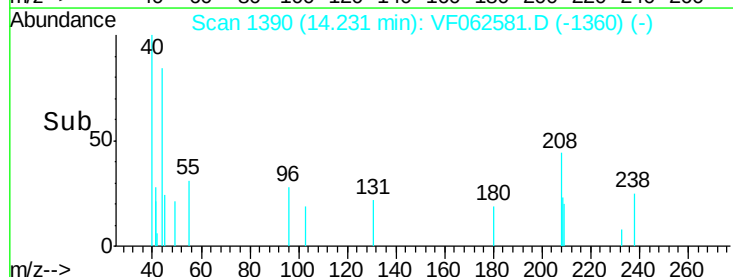
145 0.0 16.7 50.1#

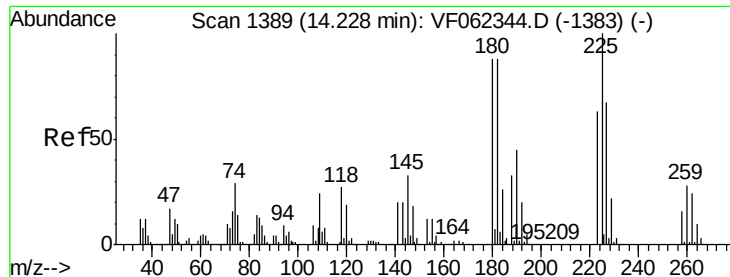


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 51.914 ug/l

RT: 14.04 min Scan# 1371

Delta R.T. -0.18 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

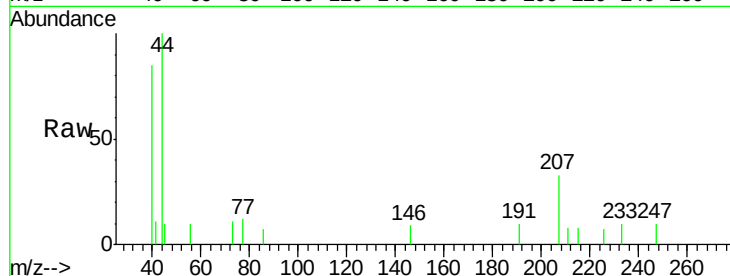
Instrument :

MSVOA_F

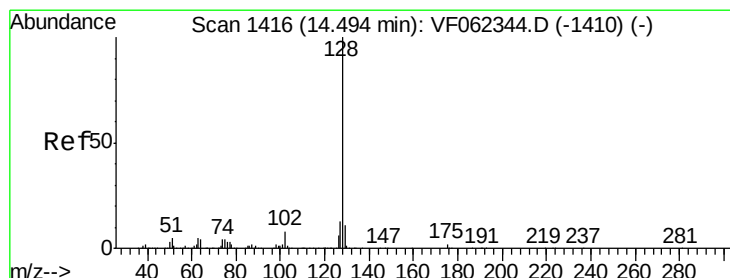
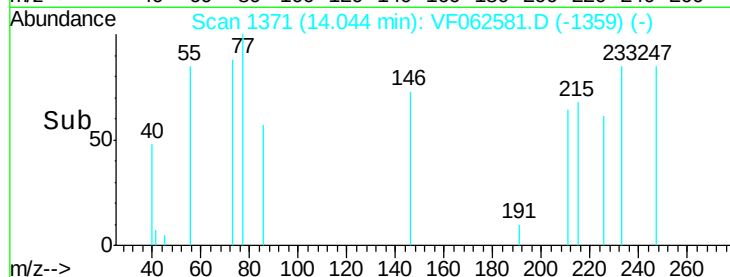
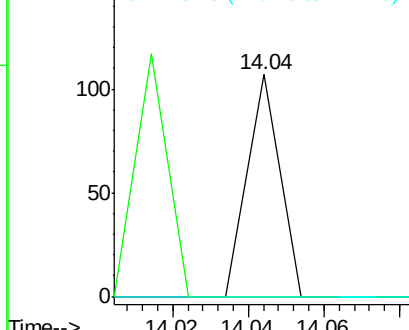
ClientSampleId :

CULVER-CBTC-WC1-051019

Tot Ion:	225	Resp:	63
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.9	95.5#
227	0.0	33.1	99.5#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 24.511 ug/l

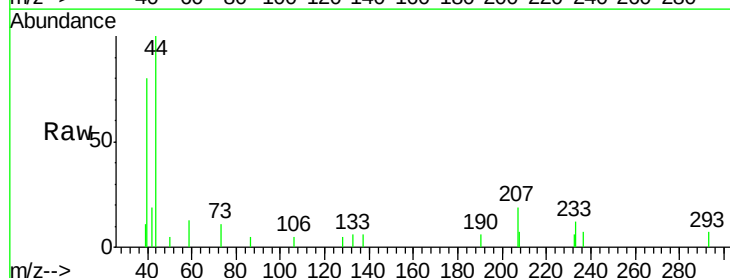
RT: 14.51 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VF062581.D

Acq: 14 May 2019 11:02

Tgt Ion:	128	Resp:	60
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

