

Data File : VX001141.D

Acq On : 26 Apr 2018 20:28

Operator : JC/MD

Sample : VSTDICV050

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Quant Time: Apr 27 07:14:01 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M

Quant Title : SW846 8260

QLast Update : Fri Apr 27 01:51:42 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	232191	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	322304	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	306450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	205281	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.08	65	167647	46.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.16%	
35) Dibromofluoromethane	5.51	113	134670	50.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.96%	
50) Toluene-d8	8.72	98	495151	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
62) 4-Bromofluorobenzene	11.15	95	196060	49.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	113815	46.74	ug/l	100
3) Chloromethane	1.32	50	131856	51.71	ug/l	99
4) Vinyl Chloride	1.40	62	134853	49.84	ug/l	98
5) Bromomethane	1.64	94	87892	53.26	ug/l	100
6) Chloroethane	1.72	64	84752	49.77	ug/l	98
7) Trichlorofluoromethane	1.93	101	206021	47.15	ug/l	99
8) Diethyl Ether	2.19	74	82310	48.99	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	108638	45.12	ug/l	100
10) Methyl Iodide	2.51	142	111506	45.34	ug/l	99
11) Tert butyl alcohol	3.09	59	179970	253.56	ug/l	99
12) 1,1-Dichloroethene	2.37	96	112447	47.89	ug/l	98
13) Acrolein	2.30	56	65447	243.91	ug/l	99
14) Allyl chloride	2.73	41	219290	51.20	ug/l	99
15) Acrylonitrile	3.16	53	378328	249.61	ug/l	100
16) Acetone	2.45	43	347470	234.76	ug/l	99
17) Carbon Disulfide	2.57	76	302226	50.45	ug/l	100
18) Methyl Acetate	2.79	43	188377	50.86	ug/l	99
19) Methyl tert-butyl Ether	3.21	73	427203	49.43	ug/l	99
20) Methylene Chloride	2.86	84	130053	47.18	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	126124	48.59	ug/l	99
22) Diisopropyl ether	3.89	45	428072	49.95	ug/l	98
23) Vinyl Acetate	3.84	43	1910564	262.78	ug/l	100
24) 1,1-Dichloroethane	3.70	63	230792	51.24	ug/l	99
25) 2-Butanone	4.72	43	549007	247.90	ug/l	100
26) 2,2-Dichloropropane	4.59	77	162812	45.92	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	142056	49.99	ug/l	99
28) Bromochloromethane	5.03	49	98652	48.85	ug/l	99
29) Tetrahydrofuran	5.18	42	356098	250.09	ug/l	100
30) Chloroform	5.23	83	242020	50.53	ug/l	99
31) Cyclohexane	5.58	56	173753	45.40	ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	209799	50.74	ug/l	99
36) 1,1-Dichloropropene	5.81	75	170291	47.95	ug/l	99
37) Ethyl Acetate	4.88	43	213418	50.18	ug/l	99
38) Carbon Tetrachloride	5.79	117	180297	49.51	ug/l	99

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BFB

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Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M

Quant Title : SW846 8260

QLast Update : Fri Apr 27 01:51:42 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.47	83	180344	45.88	ug/l	97
40) Benzene	6.15	78	516108	50.23	ug/l	100
41) Methacrylonitrile	5.07	41	121718	50.93	ug/l	99
42) 1,2-Dichloroethane	6.21	62	208793	50.43	ug/l	100
43) Isopropyl Acetate	6.48	43	343421	51.41	ug/l	100
44) Trichloroethene	7.22	130	149594	48.87	ug/l	96
45) 1,2-Dichloropropane	7.52	63	133455	49.39	ug/l	99
46) Dibromomethane	7.67	93	94847	50.69	ug/l	99
47) Bromodichloromethane	7.91	83	180389	53.06	ug/l	99
48) Methyl methacrylate	7.79	41	179738	50.62	ug/l	100
49) 1,4-Dioxane	7.77	88	73033	1027.39	ug/l	99
51) 4-Methyl-2-Pentanone	8.66	43	1141452	260.14	ug/l	100
52) Toluene	8.79	92	339643	50.55	ug/l	99
53) t-1,3-Dichloropropene	8.45	75	211308	53.46	ug/l	97
54) cis-1,3-Dichloropropene	9.05	75	201318	47.11	ug/l	99
55) 1,1,2-Trichloroethane	9.23	97	142535	50.14	ug/l	97
56) Ethyl methacrylate	9.19	69	221241	52.53	ug/l	100
57) 1,3-Dichloropropane	9.38	76	232165	50.49	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	504507	253.39	ug/l	100
59) 2-Hexanone	9.51	43	892660	259.65	ug/l	99
60) Dibromochloromethane	9.59	129	157073	47.49	ug/l	99
61) 1,2-Dibromoethane	9.68	107	154481	51.87	ug/l	99
64) Tetrachloroethene	9.34	164	153961	47.07	ug/l	95
65) Chlorobenzene	10.15	112	394806	49.17	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.23	131	148083	53.31	ug/l	99
67) Ethyl Benzene	10.26	91	648856	49.74	ug/l	100
68) m/p-Xylenes	10.37	106	508658	98.63	ug/l	99
69) o-Xylene	10.71	106	252203	50.42	ug/l	100
70) Styrene	10.72	104	423165	50.83	ug/l	99
71) Bromoform	10.87	173	133099	45.99	ug/l	99
73) Isopropylbenzene	11.02	105	651178	48.67	ug/l	100
74) N-amyl acetate	6.48	43	343421	50.94	ug/l #	100
75) 1,1,2,2-Tetrachloroethane	11.27	83	225036	50.69	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	258957	61.95	ug/l	90
77) Bromobenzene	11.26	156	197098	49.68	ug/l	100
78) n-propylbenzene	11.37	91	726670	48.71	ug/l	99
79) 2-Chlorotoluene	11.43	91	450871	48.75	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	565707	49.94	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.08	75	58915	45.35	ug/l	99
82) 4-Chlorotoluene	11.52	91	544846	49.56	ug/l	100
83) tert-Butylbenzene	11.77	119	565522	50.02	ug/l	100
84) 1,2,4-Trimethylbenzene	11.81	105	590621	50.72	ug/l	99
85) sec-Butylbenzene	11.95	105	642611	48.66	ug/l	99
86) p-Isopropyltoluene	12.07	119	599109	48.77	ug/l	99
87) 1,3-Dichlorobenzene	12.03	146	352518	49.49	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	361964	48.77	ug/l	100
89) n-Butylbenzene	12.40	91	514230	48.36	ug/l	100
90) Hexachloroethane	12.60	117	90028	45.72	ug/l	100
91) 1,2-Dichlorobenzene	12.40	146	356938	49.58	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.01	75	53111	54.21	ug/l	98

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042618\
Quantitation Report (Not Reviewed)

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Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 27 01:51:42 2018
Response via : Initial Calibration

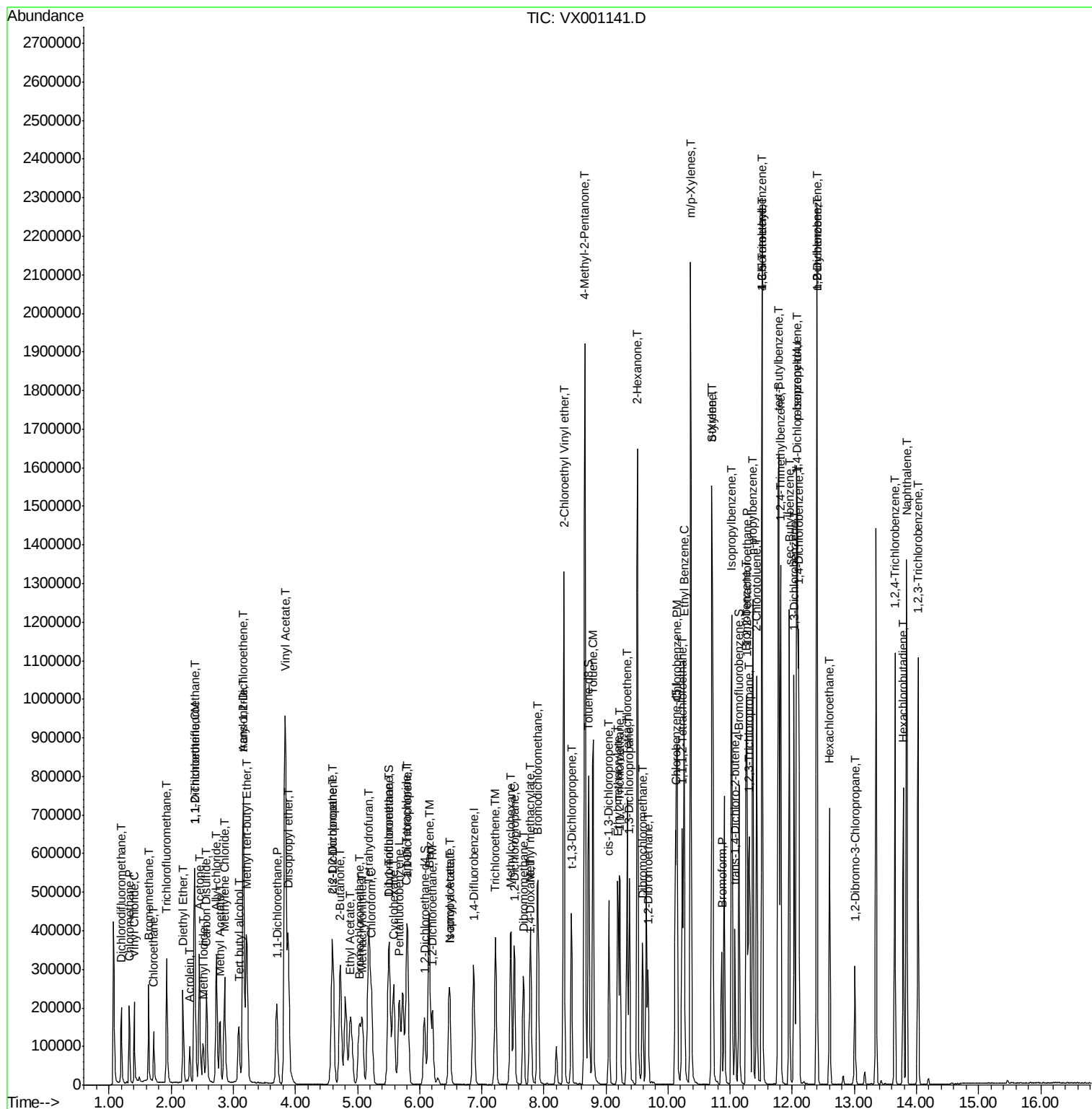
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	278397	49.33	ug/l	100
94) Hexachlorobutadiene	13.79	225	124602	46.97	ug/l	99
95) Naphthalene	13.84	128	821288	52.23	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	281884	50.19	ug/l	100

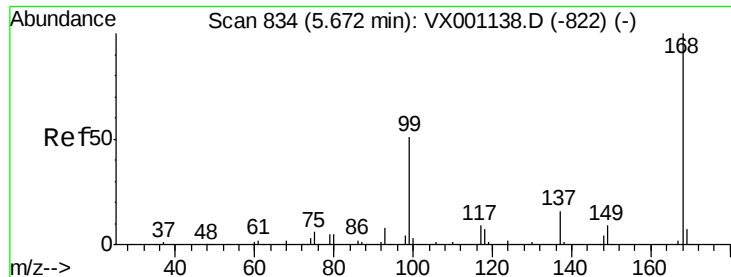
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial      : 11      Sample Multiplier: 1
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BFB

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

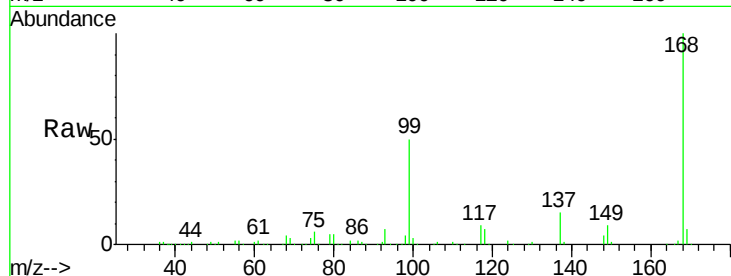
BFB

Tgt Ion:168 Resp: 232191

Ion Ratio Lower Upper

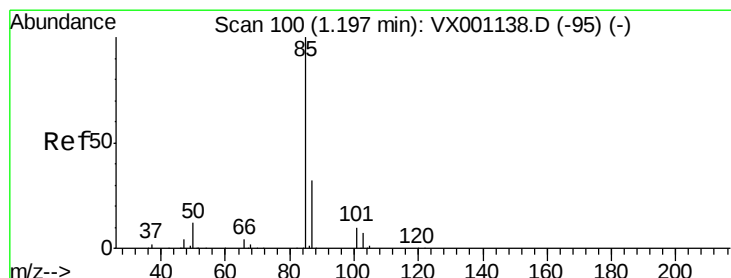
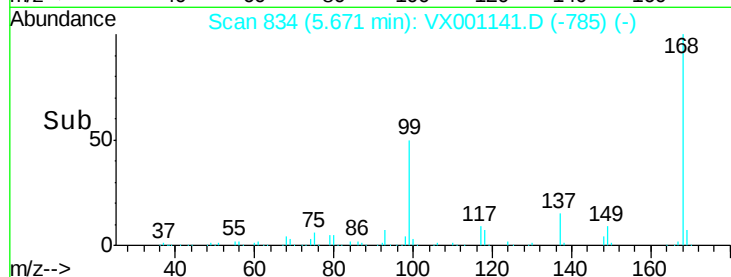
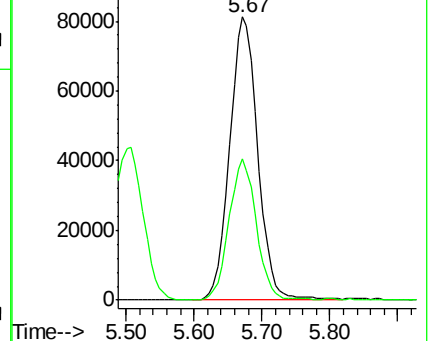
168 100

99 49.8 40.6 60.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 46.74 ug/l

RT: 1.20 min Scan# 100

Delta R.T. -0.00 min

Lab File: VX001141.D

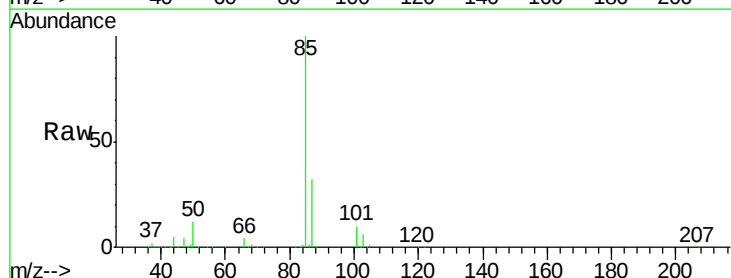
Acq: 26 Apr 2018 20:28

Tgt Ion: 85 Resp: 113815

Ion Ratio Lower Upper

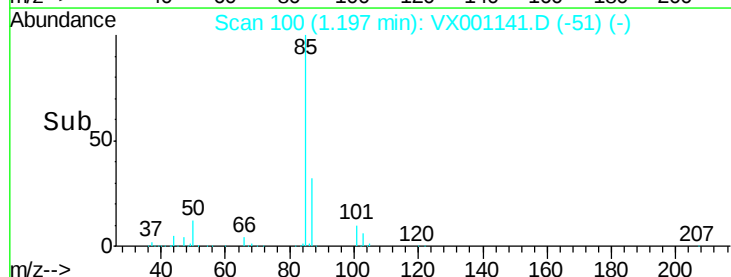
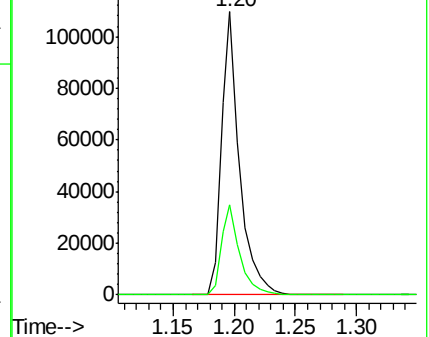
85 100

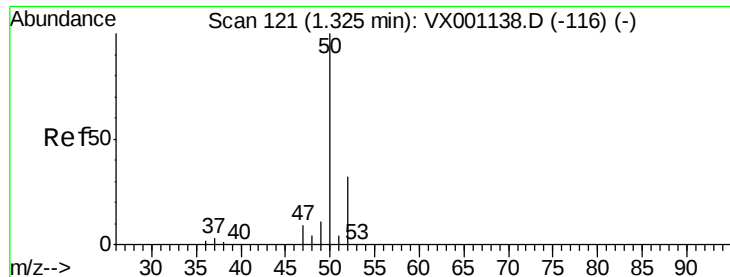
87 31.9 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 51.71 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Instrument :

MSVOA_X

ClientSampled :

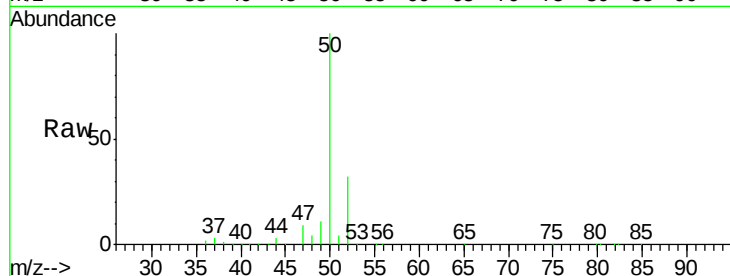
BFB

Tgt Ion: 50 Resp: 131856

Ion Ratio Lower Upper

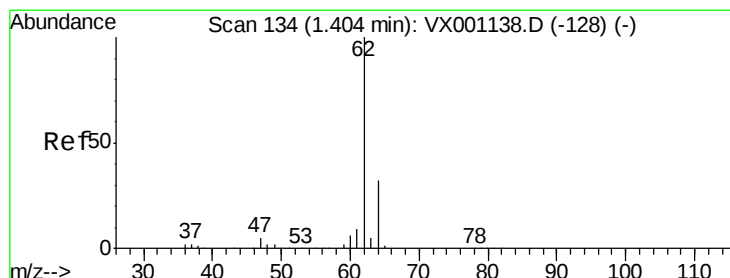
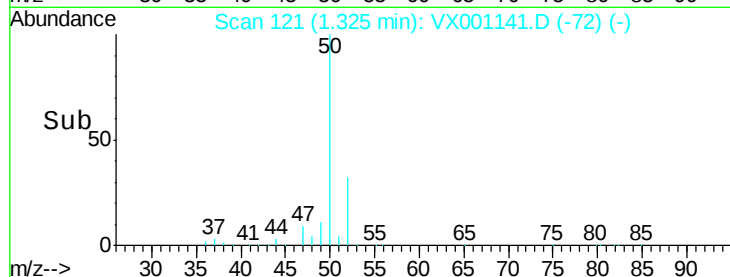
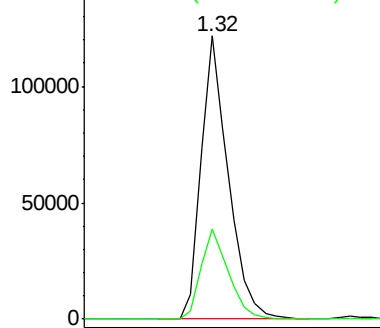
50 100

52 31.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 49.84 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX001141.D

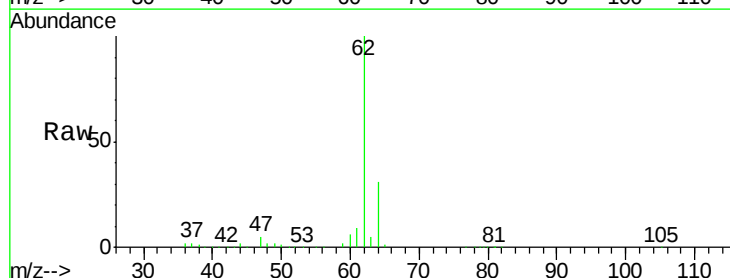
Acq: 26 Apr 2018 20:28

Tgt Ion: 62 Resp: 134853

Ion Ratio Lower Upper

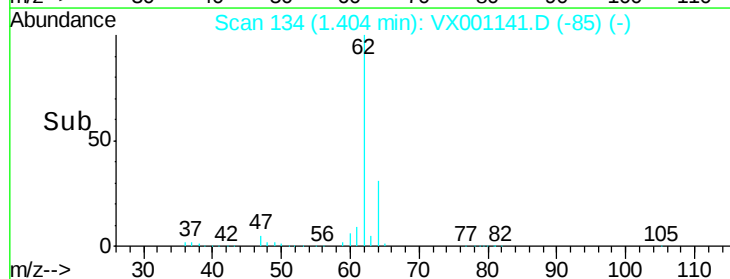
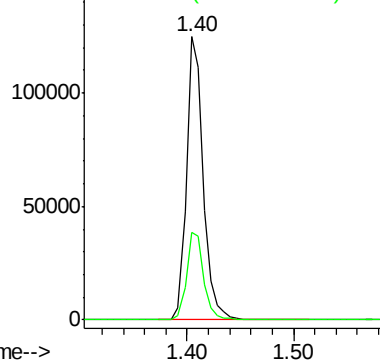
62 100

64 31.0 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 53.26 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Instrument :

MSVOA_X

ClientSampled :

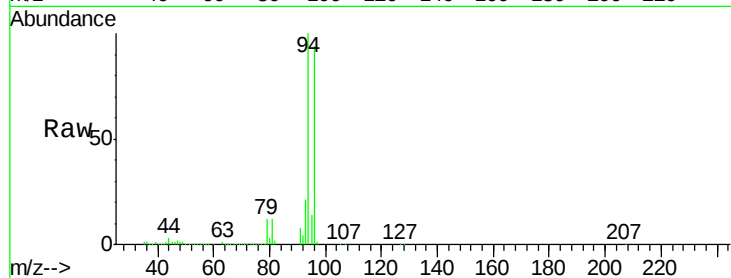
BFB

Tgt Ion: 94 Resp: 87892

Ion Ratio Lower Upper

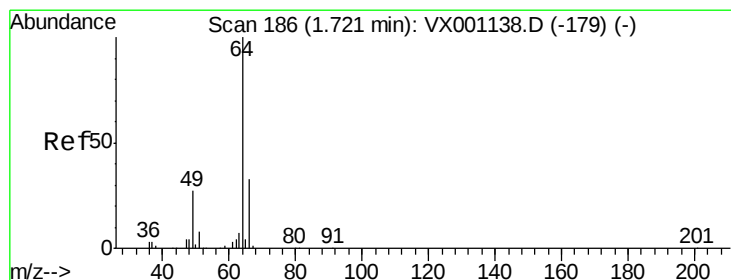
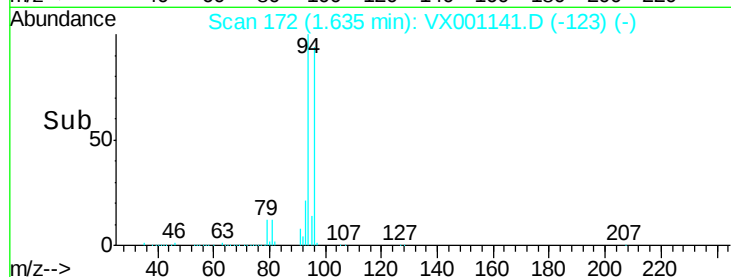
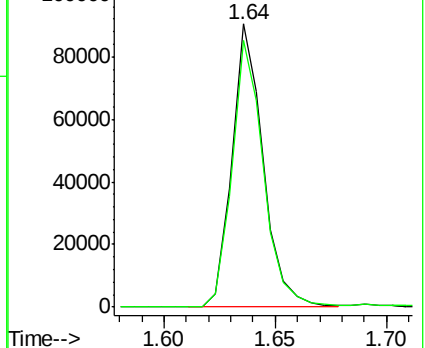
94 100

96 94.1 75.3 112.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 49.77 ug/l

RT: 1.72 min Scan# 186

Delta R.T. -0.00 min

Lab File: VX001141.D

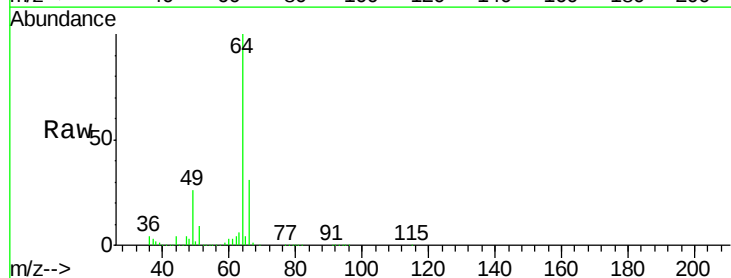
Acq: 26 Apr 2018 20:28

Tgt Ion: 64 Resp: 84752

Ion Ratio Lower Upper

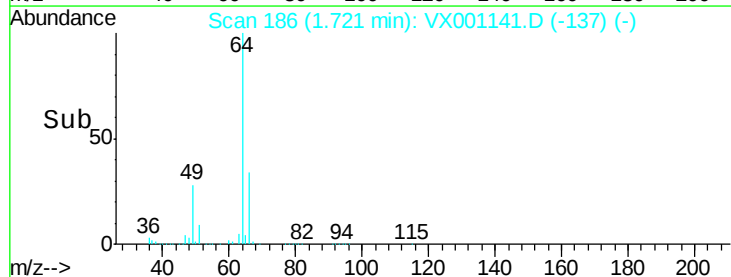
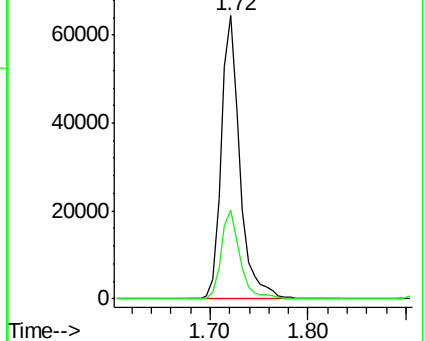
64 100

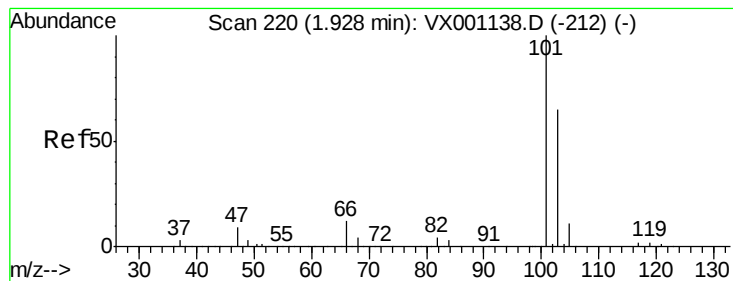
66 31.3 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

Trichlorofluoromethane

Concen: 47.15 ug/l

RT: 1.93 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

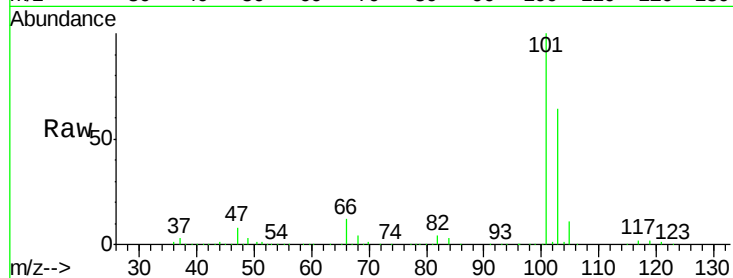
BFB

Tgt Ion:101 Resp: 206021

Ion Ratio Lower Upper

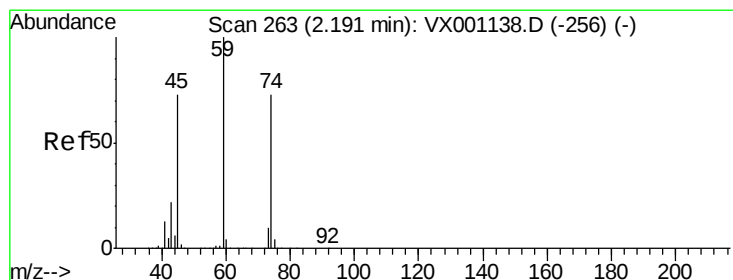
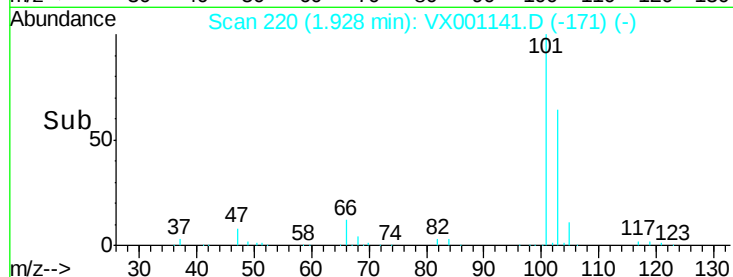
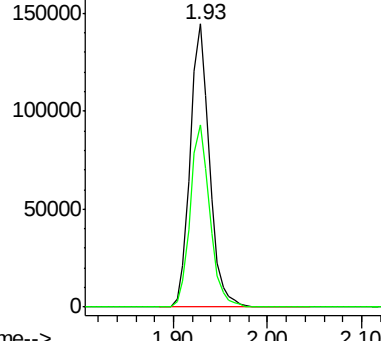
101 100

103 64.4 51.9 77.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 48.99 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX001141.D

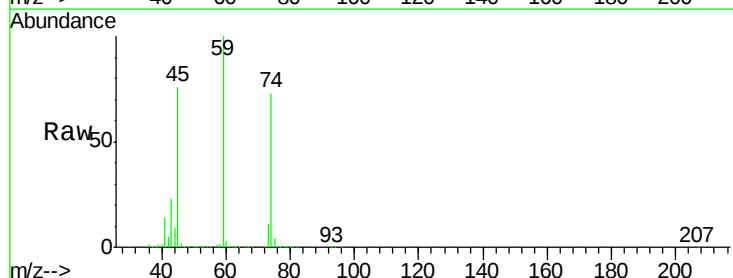
Acq: 26 Apr 2018 20:28

Tgt Ion: 74 Resp: 82310

Ion Ratio Lower Upper

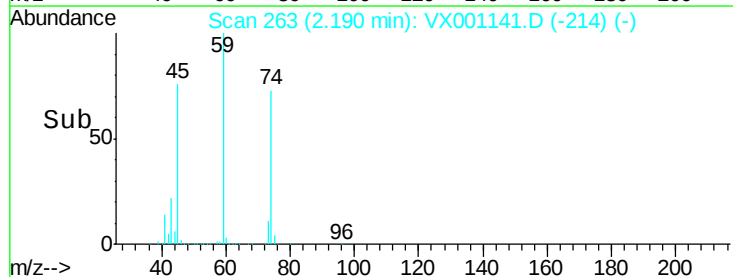
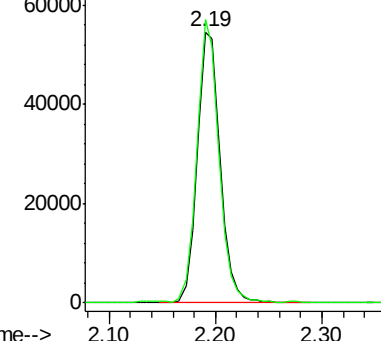
74 100

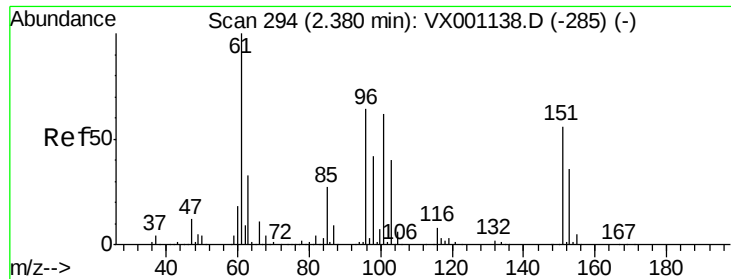
45 99.3 49.5 148.7



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.12 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

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ClientSampleId :

BFB

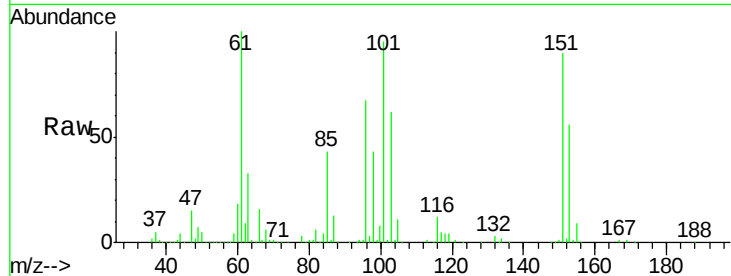
Tgt Ion:101 Resp: 108638

Ion Ratio Lower Upper

101 100

85 44.4 35.4 53.0

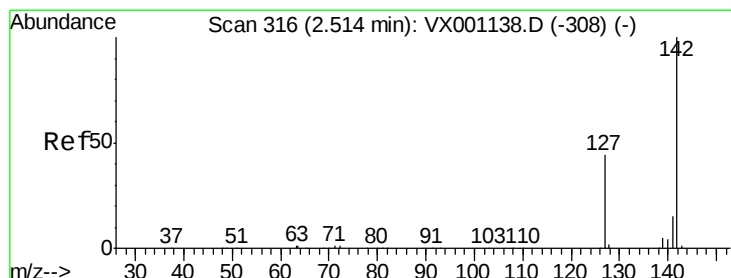
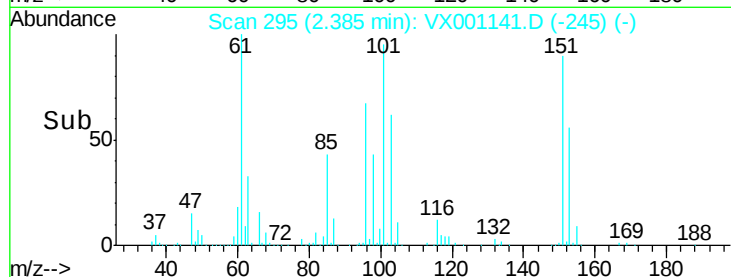
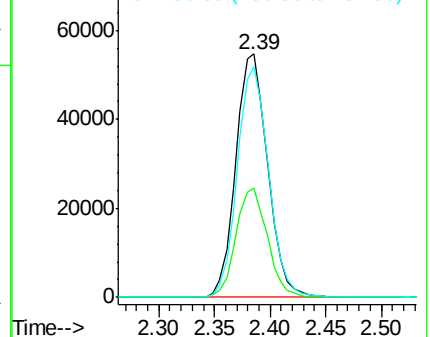
151 93.1 74.2 111.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 45.34 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

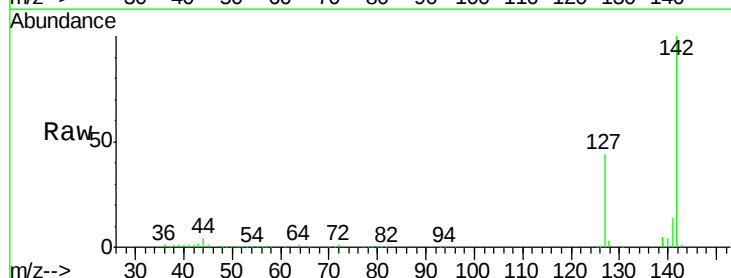
Tgt Ion:142 Resp: 111506

Ion Ratio Lower Upper

142 100

127 44.2 34.7 52.1

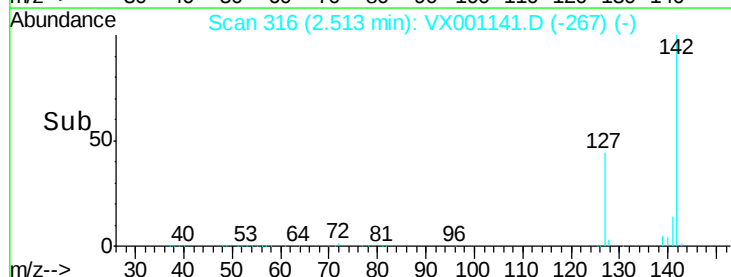
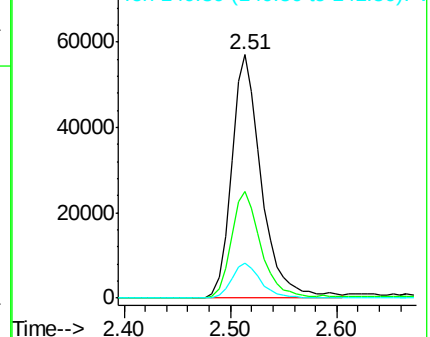
141 14.5 11.6 17.4

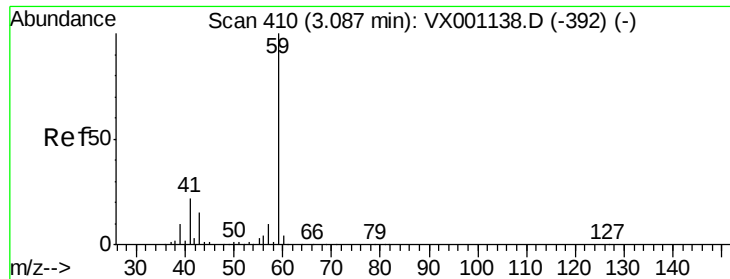


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

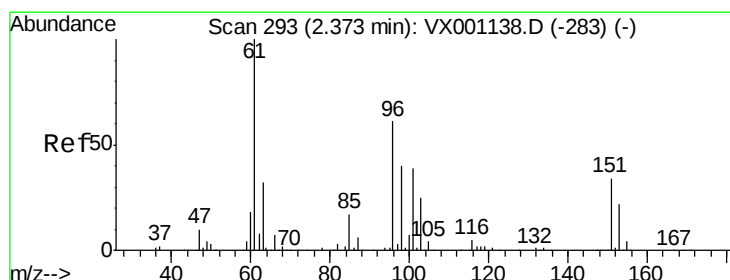
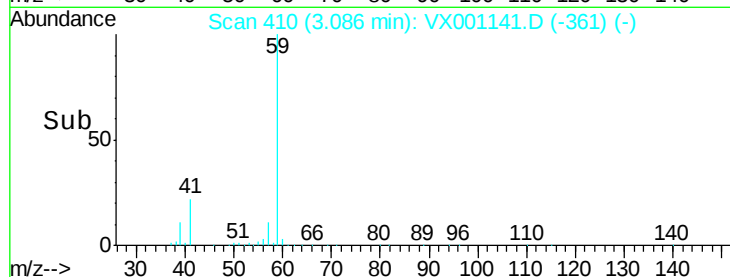
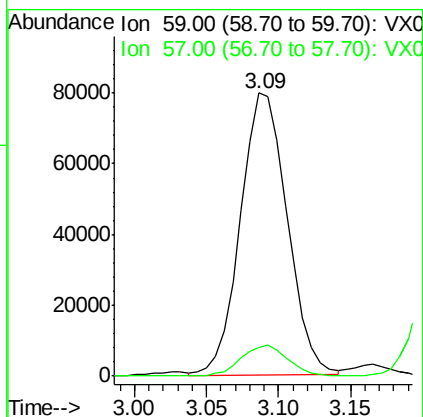
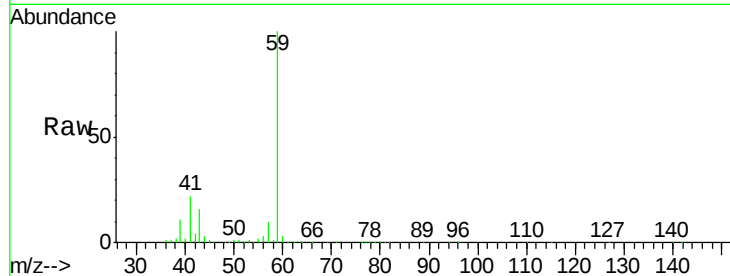




#11
Tert butyl alcohol
Concen: 253.56 ug/l
RT: 3.09 min Scan# 410
Delta R.T. -0.00 min
Lab File: VX001141.D
Acq: 26 Apr 2018 20:28

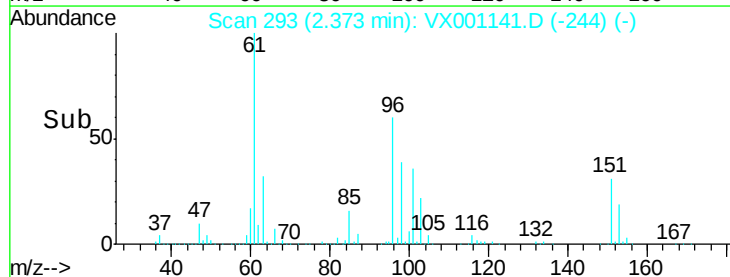
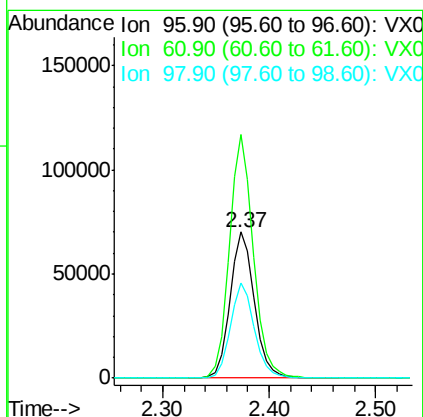
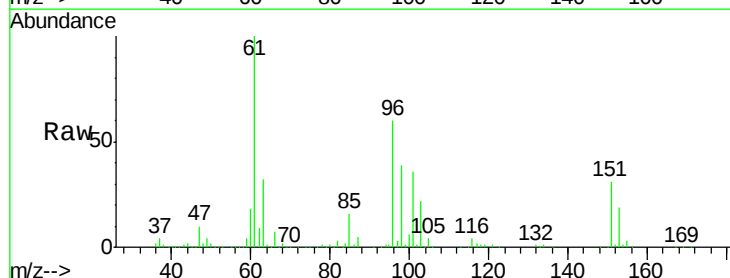
Instrument :
MSVOA_X
ClientSampleId :
BFB

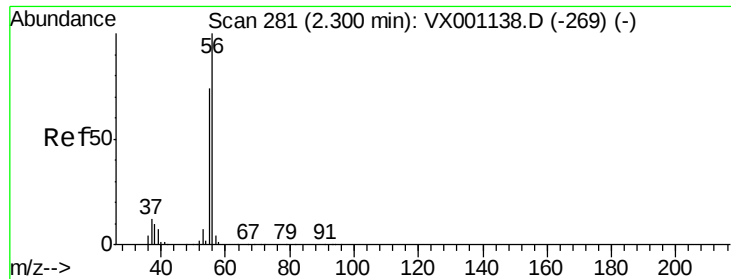
Tgt Ion: 59 Resp: 179970
Ion Ratio Lower Upper
59 100
57 10.8 8.2 12.4



#12
1,1-Dichloroethene
Concen: 47.89 ug/l
RT: 2.37 min Scan# 293
Delta R.T. -0.00 min
Lab File: VX001141.D
Acq: 26 Apr 2018 20:28

Tgt Ion: 96 Resp: 112447
Ion Ratio Lower Upper
96 100
61 166.5 130.2 195.4
98 64.8 51.5 77.3





#13

Acrolein

Concen: 243.91 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

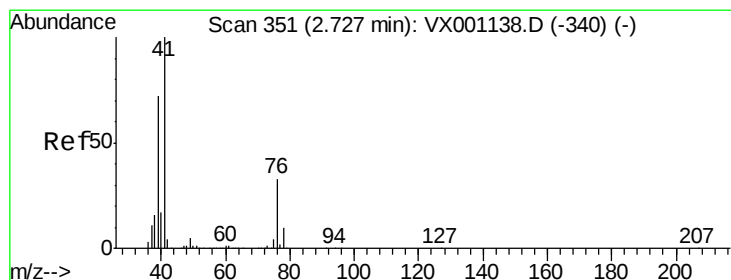
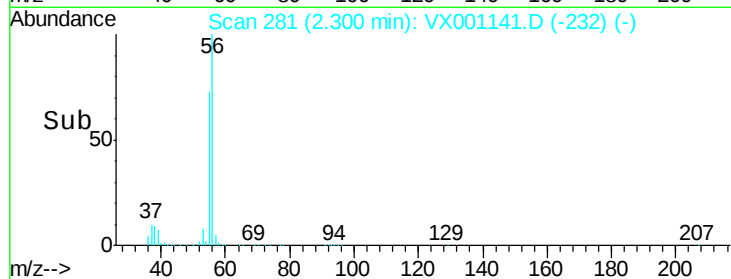
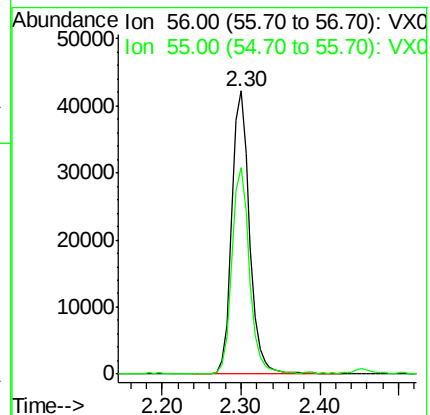
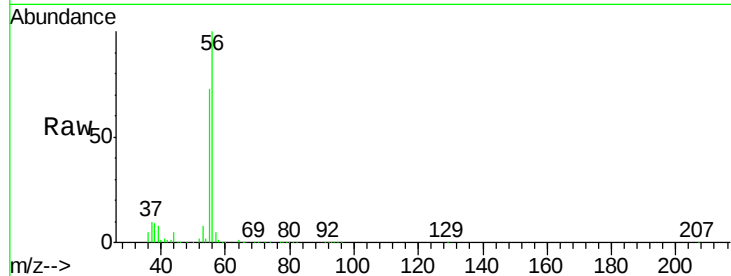
BFB

Tgt Ion: 56 Resp: 65447

Ion Ratio Lower Upper

56 100

55 72.2 57.2 85.8



#14

Allyl chloride

Concen: 51.20 ug/l

RT: 2.73 min Scan# 351

Delta R.T. -0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

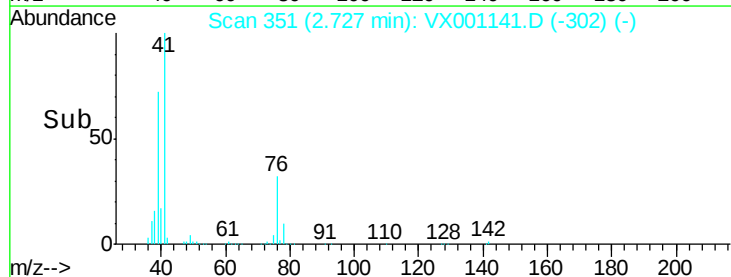
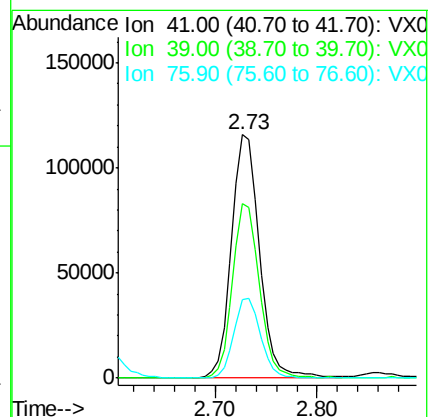
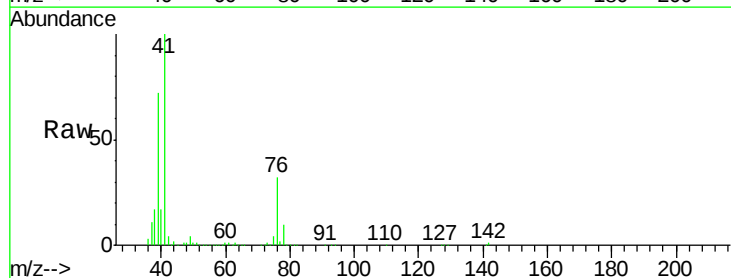
Tgt Ion: 41 Resp: 219290

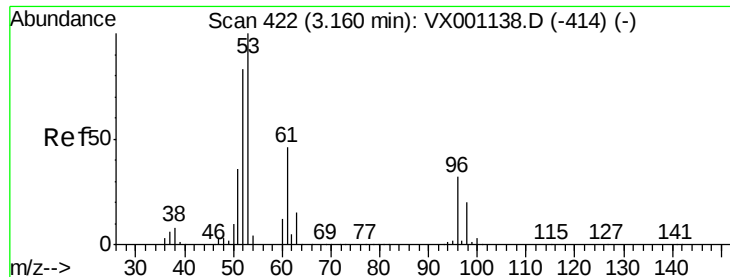
Ion Ratio Lower Upper

41 100

39 68.4 55.6 83.4

76 31.2 24.8 37.2





#15

Acrylonitrile

Concen: 249.61 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Instrument :

MSVOA_X

ClientSampled :

BFB

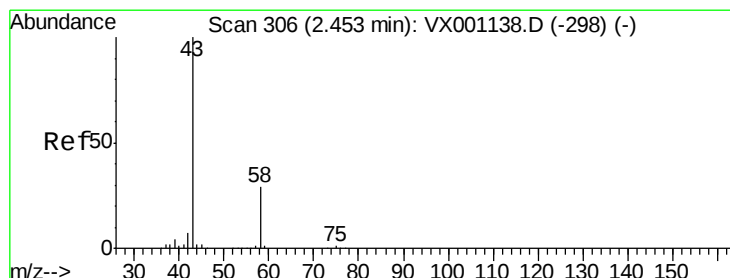
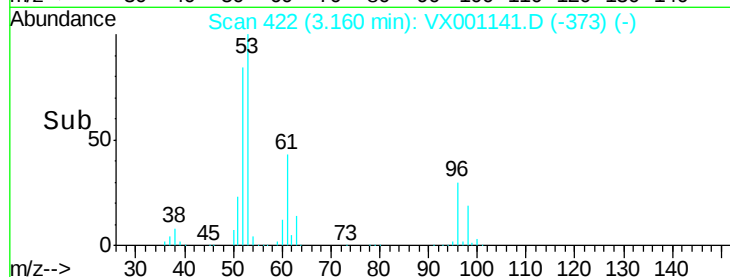
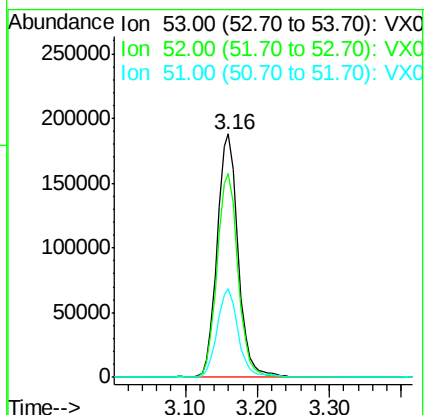
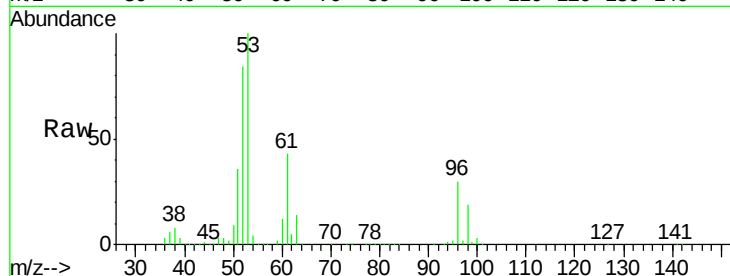
Tgt Ion: 53 Resp: 378328

Ion Ratio Lower Upper

53 100

52 83.4 66.5 99.7

51 36.9 29.5 44.3



#16

Acetone

Concen: 234.76 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001141.D

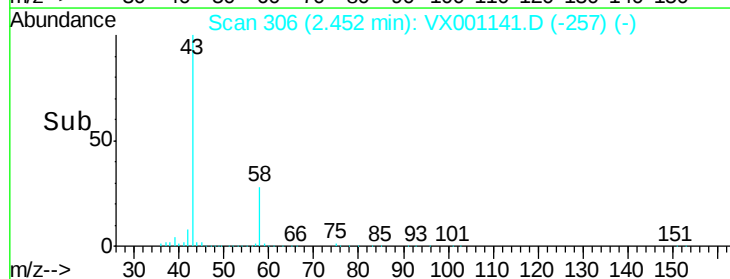
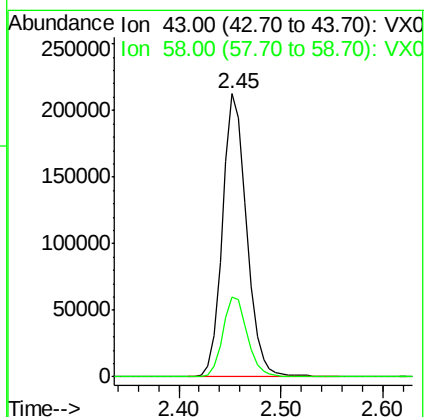
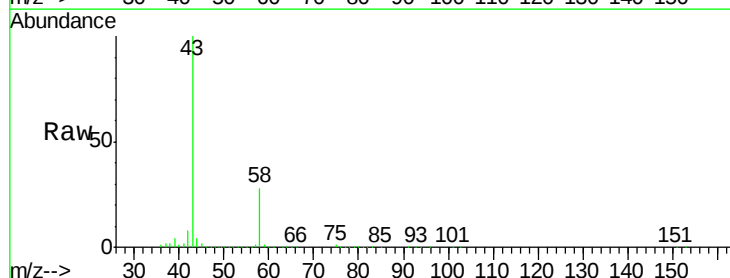
Acq: 26 Apr 2018 20:28

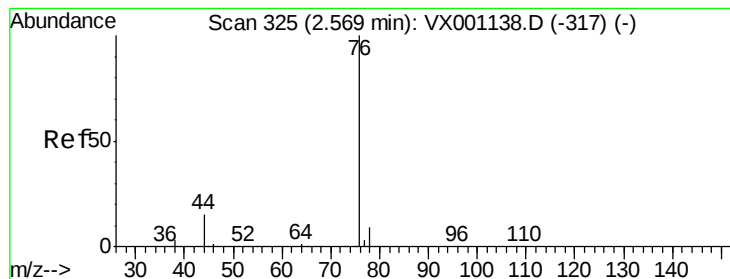
Tgt Ion: 43 Resp: 347470

Ion Ratio Lower Upper

43 100

58 28.4 23.0 34.6





#17

Carbon Disulfide

Concen: 50.45 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

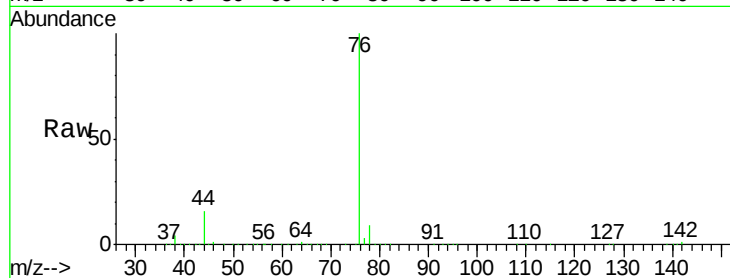
BFB

Tgt Ion: 76 Resp: 302226

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

200000

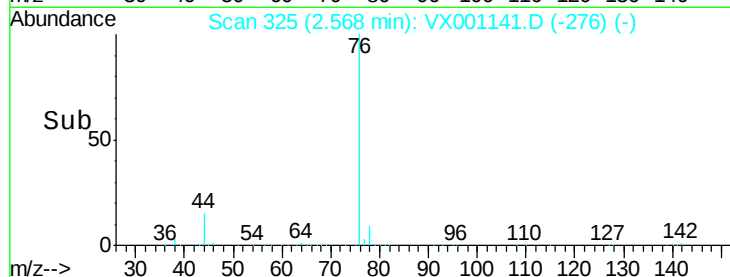
150000

100000

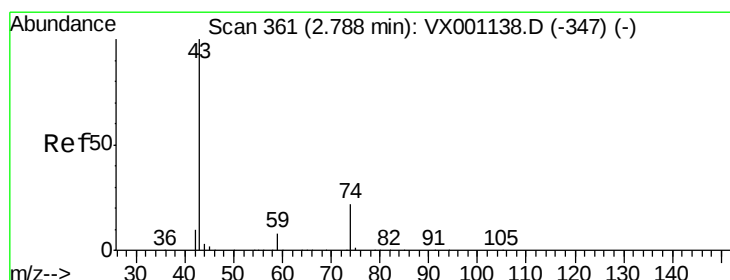
50000

0

Time-->



Time-->



#18

Methyl Acetate

Concen: 50.86 ug/l

RT: 2.79 min Scan# 361

Delta R.T. -0.00 min

Lab File: VX001141.D

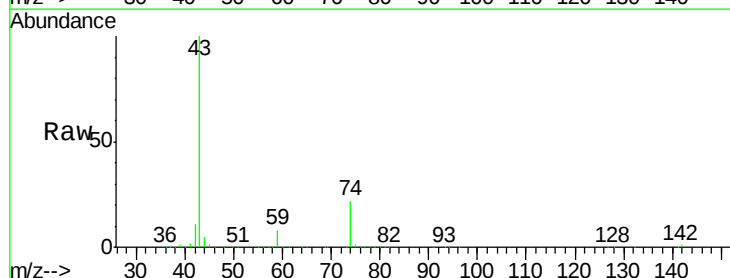
Acq: 26 Apr 2018 20:28

Tgt Ion: 43 Resp: 188377

Ion Ratio Lower Upper

43 100

74 22.0 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

120000

100000

80000

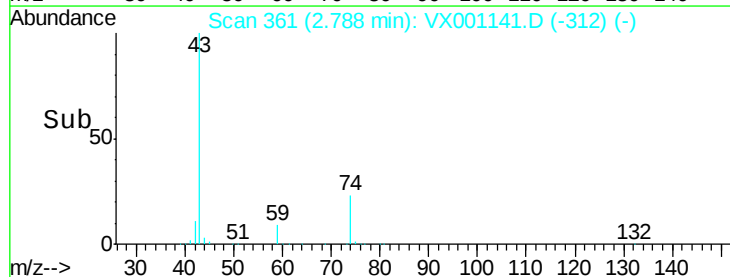
60000

40000

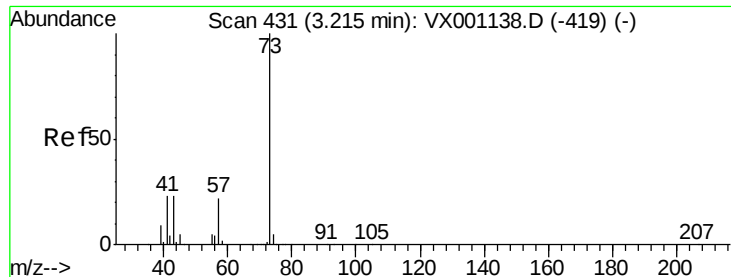
20000

0

Time-->



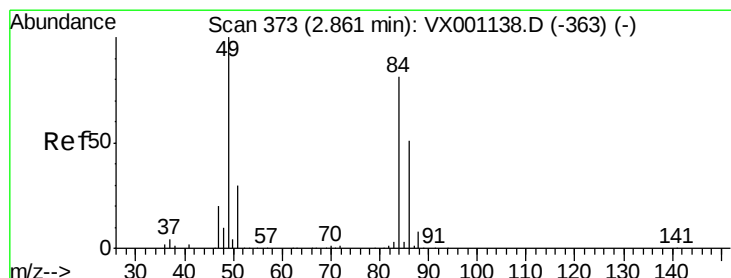
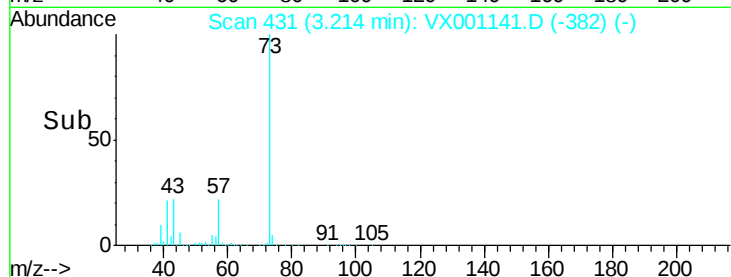
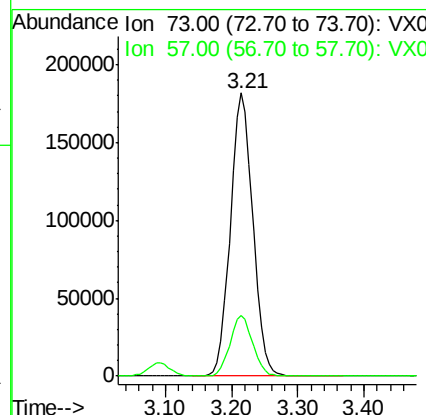
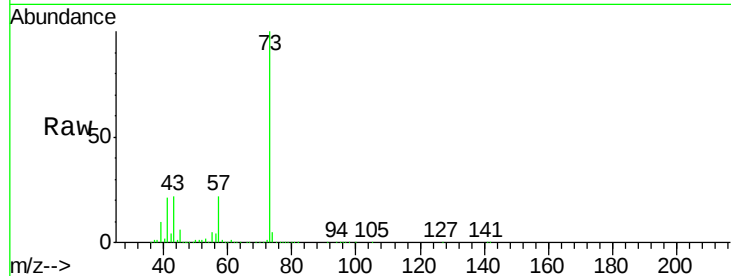
Time-->



#19
Methyl tert-butyl Ether
Concen: 49.43 ug/l
RT: 3.21 min Scan# 431
Delta R.T. -0.00 min
Lab File: VX001141.D
Acq: 26 Apr 2018 20:28

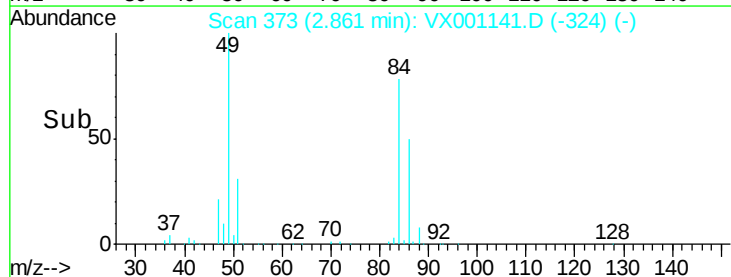
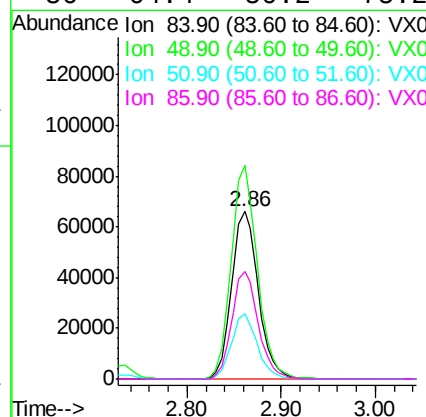
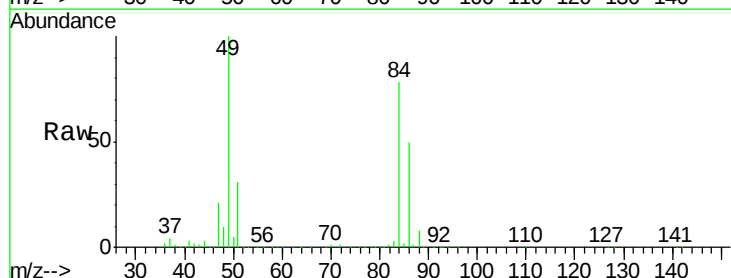
Instrument :
MSVOA_X
ClientSampleId :
BFB

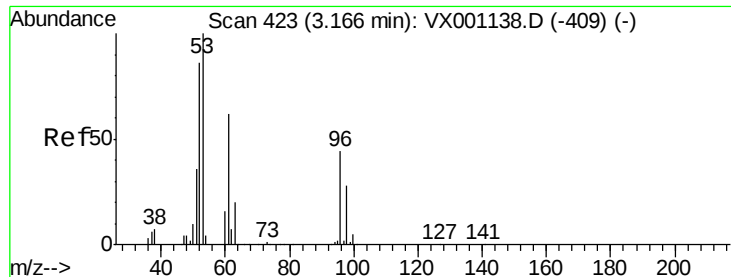
Tgt Ion: 73 Resp: 427203
Ion Ratio Lower Upper
73 100
57 21.5 17.7 26.5



#20
Methylene Chloride
Concen: 47.18 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX001141.D
Acq: 26 Apr 2018 20:28

Tgt Ion: 84 Resp: 130053
Ion Ratio Lower Upper
84 100
49 127.5 99.2 148.8
51 39.2 29.5 44.3
86 64.4 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 48.59 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

BFB

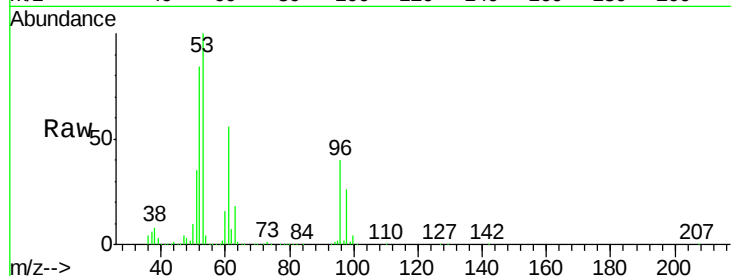
Tgt Ion: 96 Resp: 126124

Ion Ratio Lower Upper

96 100

61 138.4 111.9 167.9

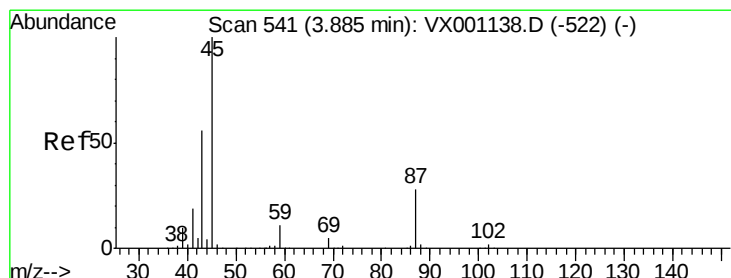
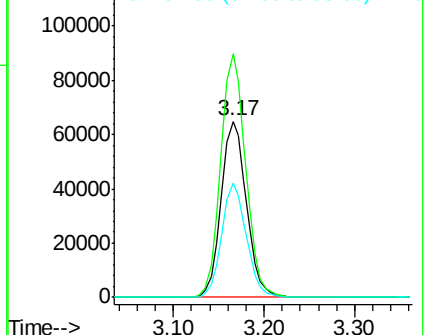
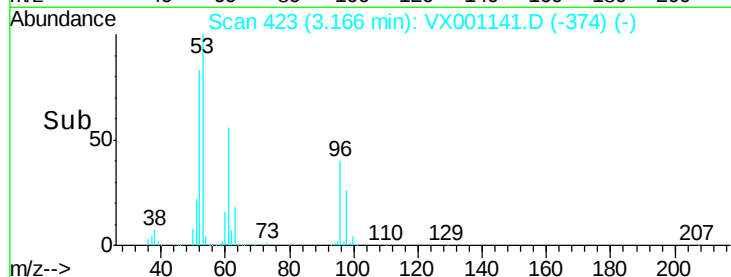
98 64.8 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 49.95 ug/l

RT: 3.89 min Scan# 541

Delta R.T. -0.00 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Tgt Ion: 45 Resp: 428072

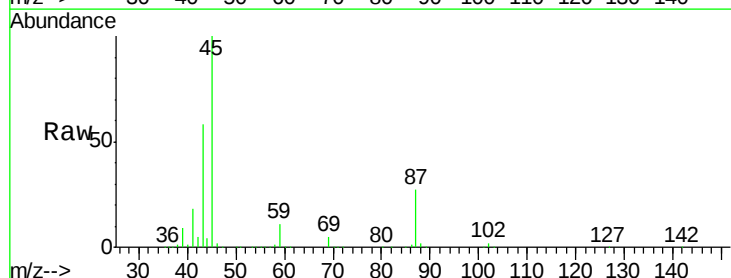
Ion Ratio Lower Upper

45 100

43 57.8 45.0 67.4

87 27.0 22.8 34.2

59 11.1 9.0 13.6

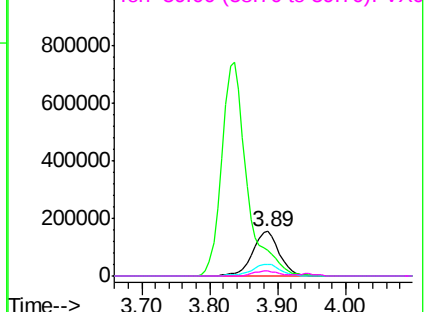
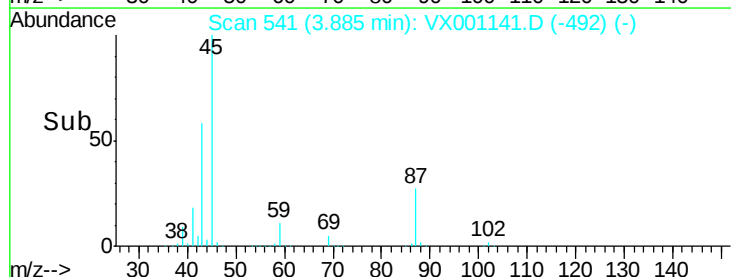


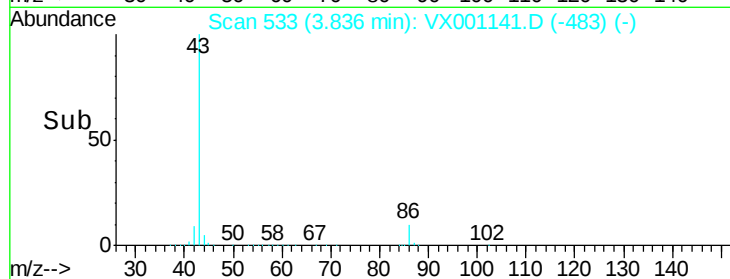
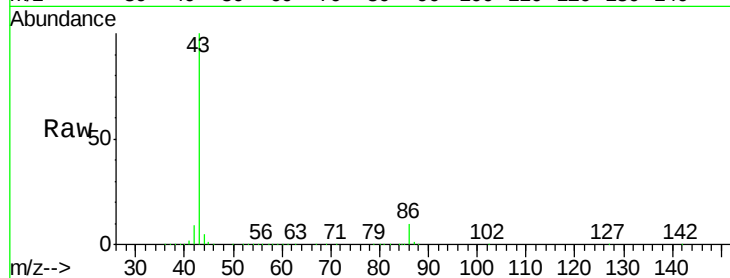
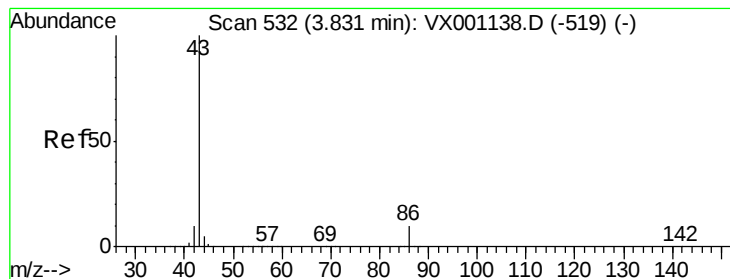
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 262.78 ug/l

RT: 3.84 min Scan# 533

Delta R.T. 0.01 min

Lab File: VX001141.D

Acq: 26 Apr 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

BFB

Tgt Ion: 43 Resp: 1910564

Ion Ratio Lower Upper

43 100

86 10.0 8.0 12.0

