

Data File : VX003731.D
Acq On : 30 Jul 2018 18:31
Operator : JC/SP
Sample : VSTDICV050
Misc : 5.00G/5.0mL/MSVOA_X/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX073018

Quant Time: Jul 31 05:42:30 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X073018S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 31 05:41:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	124375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	185075	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	167685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	95536	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	64445	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
35) Dibromofluoromethane	5.50	113	57454	52.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.44%	
50) Toluene-d8	8.72	98	234920	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	
62) 4-Bromofluorobenzene	11.14	95	85792	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.19	85	48321	46.030	ug/l	99
3) Chloromethane	1.32	50	64566	48.928	ug/l	100
4) Vinyl Chloride	1.40	62	65811	46.364	ug/l #	88
5) Bromomethane	1.63	94	42706	55.385	ug/l	99
6) Chloroethane	1.71	64	41070	45.921	ug/l	100
7) Trichlorofluoromethane	1.92	101	89248	47.949	ug/l	94
8) Diethyl Ether	2.18	74	36324	51.637	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	57212	48.455	ug/l	99
10) Methyl Iodide	2.51	142	70753	52.121	ug/l	100
11) Tert butyl alcohol	3.08	59	48367	237.461	ug/l	99
12) 1,1-Dichloroethene	2.37	96	53729	48.331	ug/l	95
13) Acrolein	2.29	56	10605	159.139	ug/l	92
14) Allyl chloride	2.72	41	99101	50.288	ug/l	99
15) Acrylonitrile	3.15	53	127390	245.927	ug/l	100
16) Acetone	2.45	43	118835	247.325	ug/l	100
17) Carbon Disulfide	2.56	76	172604	47.720	ug/l	100
18) Methyl Acetate	2.78	43	60155	44.552	ug/l	99
19) Methyl tert-butyl Ether	3.20	73	157363	52.004	ug/l	99
20) Methylene Chloride	2.85	84	65526	51.906	ug/l	97
21) trans-1,2-Dichloroethene	3.16	96	59322	48.700	ug/l	94
22) Diisopropyl ether	3.87	45	181126	50.914	ug/l	98
23) Vinyl Acetate	3.82	43	685703	267.251	ug/l	99
24) 1,1-Dichloroethane	3.70	63	104668	50.451	ug/l	96
25) 2-Butanone	4.70	43	180158	257.210	ug/l	94
26) 2,2-Dichloropropane	4.59	77	82913	50.743	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	66508	50.664	ug/l	99
28) Bromochloromethane	5.02	49	47445	50.982	ug/l	98
29) Tetrahydrofuran	5.15	42	108975	244.135	ug/l	99
30) Chloroform	5.21	83	103797	50.773	ug/l	98
31) Cyclohexane	5.57	56	97784	48.793	ug/l #	87
32) 1,1,1-Trichloroethane	5.50	97	89595	50.992	ug/l	99
36) 1,1-Dichloropropene	5.80	75	84514	48.761	ug/l	99
37) Ethyl Acetate	4.85	43	65683	49.334	ug/l	99
38) Carbon Tetrachloride	5.78	117	78338	48.865	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	105306	49.487	ug/l	96
40) Benzene	6.14	78	254857	51.312	ug/l	98
41) Methacrylonitrile	5.06	41	37266	49.658	ug/l	100
42) 1,2-Dichloroethane	6.20	62	75226	50.145	ug/l	99
43) Isopropyl Acetate	6.46	43	106864	50.377	ug/l	98
44) Trichloroethene	7.21	130	68921	48.643	ug/l	96
45) 1,2-Dichloropropane	7.52	63	62086	50.831	ug/l	98
46) Dibromomethane	7.67	93	35993	51.136	ug/l	97
47) Bromodichloromethane	7.90	83	73572	52.451	ug/l	99
48) Methyl methacrylate	7.78	41	54220	50.956	ug/l	100
49) 1,4-Dioxane	7.75	88	20700	963.863	ug/l	98
51) 4-Methyl-2-Pentanone	8.65	43	330000	253.130	ug/l	100
52) Toluene	8.79	92	155201	50.093	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	84960	53.033	ug/l	99
54) cis-1,3-Dichloropropene	8.44	75	95200	53.312	ug/l	99
55) 1,1,2-Trichloroethane	9.22	97	54858	51.447	ug/l	97
56) Ethyl methacrylate	9.18	69	78620	53.677	ug/l	99
57) 1,3-Dichloropropane	9.37	76	92188	51.503	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.32	63	197333	252.302	ug/l	100
59) 2-Hexanone	9.50	43	250228	251.949	ug/l	100
60) Dibromochloromethane	9.59	129	56615	52.721	ug/l	100
61) 1,2-Dibromoethane	9.68	107	55932	51.375	ug/l	99
64) Tetrachloroethene	9.34	164	63529	48.199	ug/l	96
65) Chlorobenzene	10.14	112	175531	50.093	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.23	131	59659	52.209	ug/l	100
67) Ethyl Benzene	10.26	91	300497	50.788	ug/l	100
68) m/p-Xylenes	10.36	106	234766	101.431	ug/l	99
69) o-Xylene	10.70	106	110716	51.516	ug/l	99
70) Styrene	10.71	104	189751	52.481	ug/l	100
71) Bromoform	10.86	173	42148	53.645	ug/l #	97
73) Isopropylbenzene	11.02	105	303544	50.753	ug/l	100
74) N-amyl acetate	6.46	43	106864	50.410	ug/l #	57
75) 1,1,2,2-Tetrachloroethane	11.27	83	77570	49.887	ug/l	100
76) 1,2,3-Trichloropropane	11.30	75	88243	67.012	ug/l	83
77) Bromobenzene	11.26	156	80052	51.340	ug/l	99
78) n-propylbenzene	11.36	91	362918	50.087	ug/l	100
79) 2-Chlorotoluene	11.42	91	205626	49.986	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	259810	50.893	ug/l #	67
81) trans-1,4-Dichloro-2-buten	11.08	75	23781	53.492	ug/l	99
82) 4-Chlorotoluene	11.51	91	247127	49.528	ug/l	99
83) tert-Butylbenzene	11.77	119	259886	51.471	ug/l	100
84) 1,2,4-Trimethylbenzene	11.81	105	267554	50.918	ug/l	100
85) sec-Butylbenzene	11.95	105	323077	50.014	ug/l	100
86) p-Isopropyltoluene	12.07	119	294575	50.173	ug/l #	69
87) 1,3-Dichlorobenzene	12.03	146	156321	49.560	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	157697	49.004	ug/l	100
89) n-Butylbenzene	12.39	91	279962	50.101	ug/l	99
90) Hexachloroethane	12.60	117	44644	51.209	ug/l	100
91) 1,2-Dichlorobenzene	12.40	146	147463	50.202	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.00	75	15531	50.340	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073018\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	120098	51.541	ug/l	100
94) Hexachlorobutadiene	13.79	225	73110	49.063	ug/l	99
95) Naphthalene	13.83	128	270495	54.323	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	110507	52.244	ug/l	100

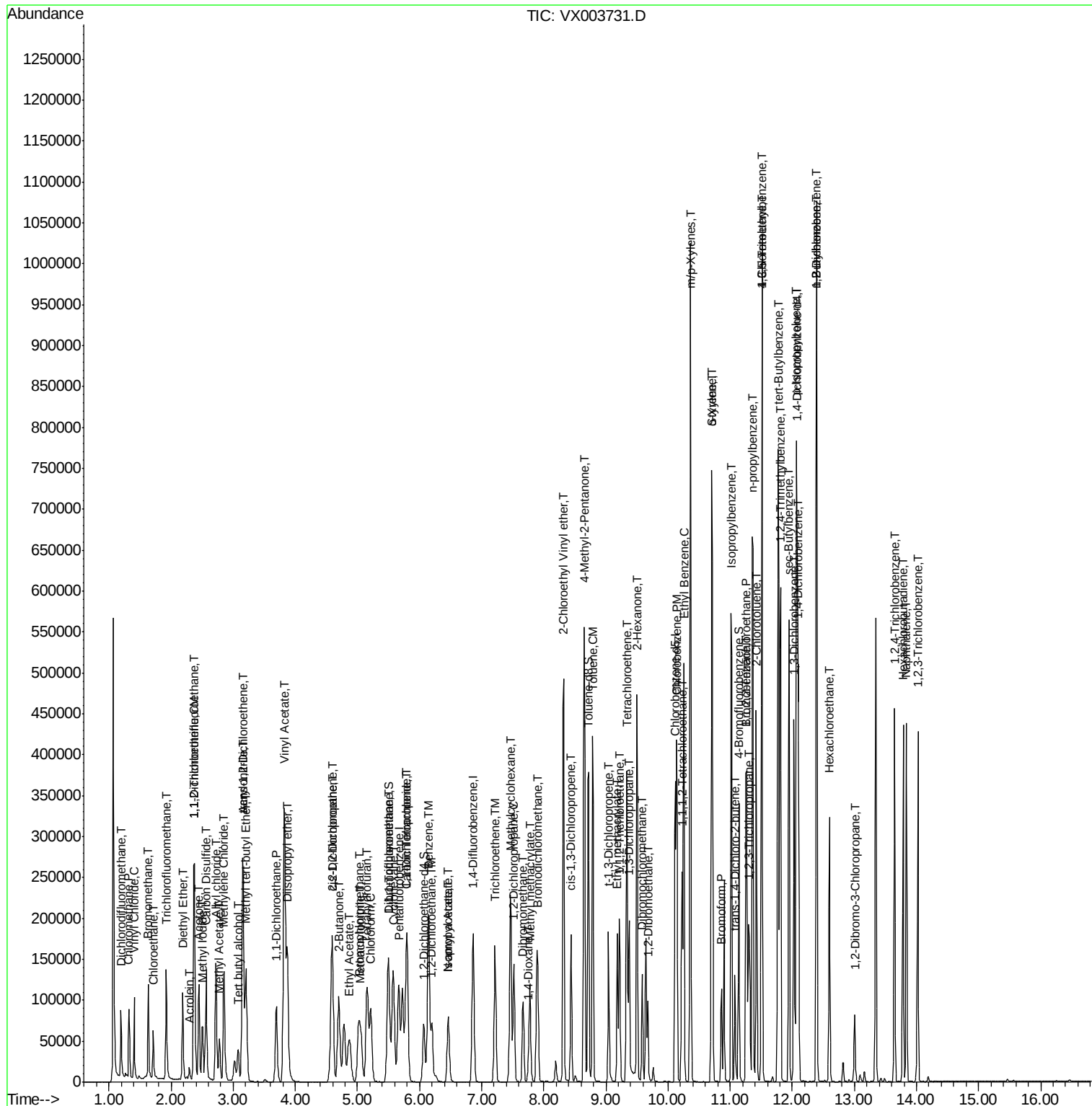
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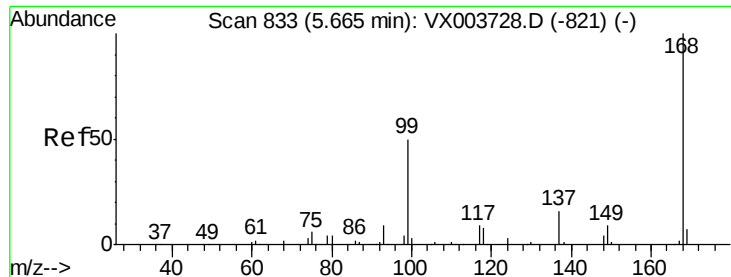
Data File : VX003731.D

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

Instrument :

MSVOA_X

ClientSampleId :

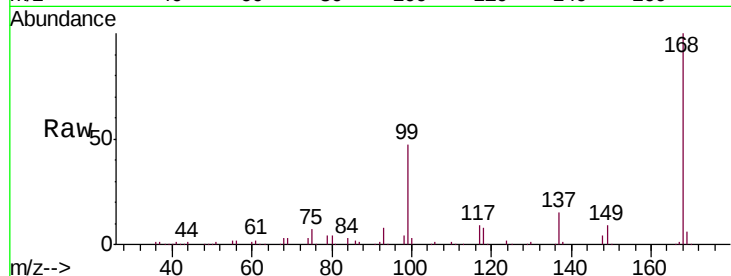
ICVVX073018

Tgt Ion:168 Resp: 124375

Ion Ratio Lower Upper

168 100

99 47.0 40.2 60.2



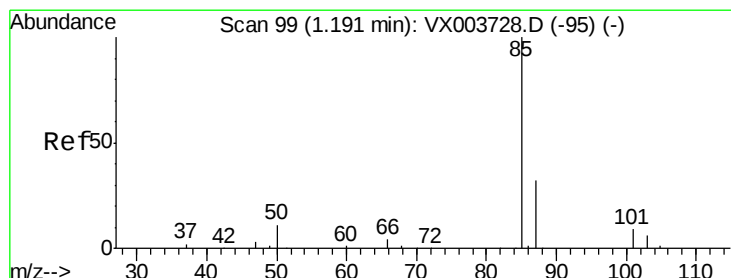
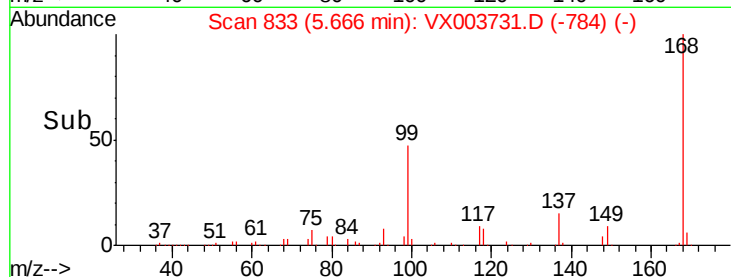
Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 46.030 ug/l

RT: 1.19 min Scan# 99

Delta R.T. 0.00 min

Lab File: VX003731.D

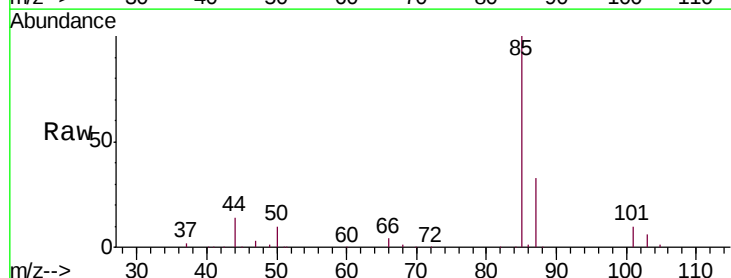
Acq: 30 Jul 2018 18:31

Tgt Ion: 85 Resp: 48321

Ion Ratio Lower Upper

85 100

87 32.6 16.1 48.2



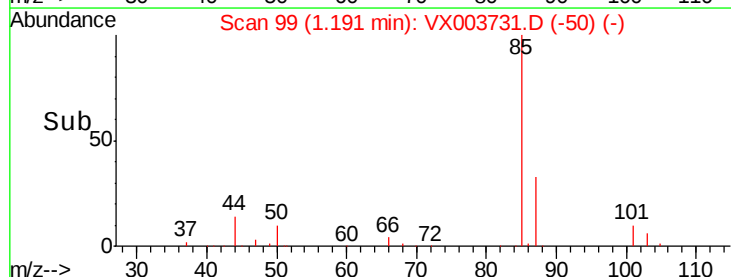
Abundance Ion 84.90 (84.60 to 85.60): VX0

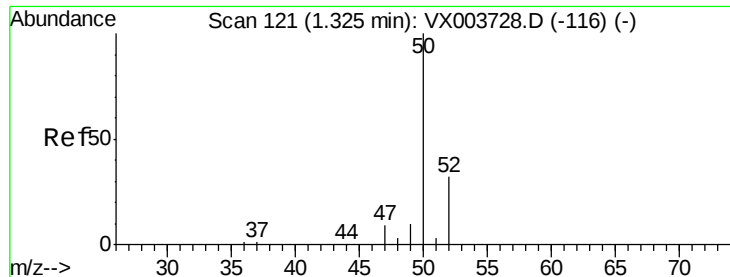
Ion 86.90 (86.60 to 87.60): VX0

1.19

1.15 1.20 1.25 1.30

Time-->





#3

Chloromethane

Concen: 48.928 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

Instrument :

MSVOA_X

ClientSampleId :

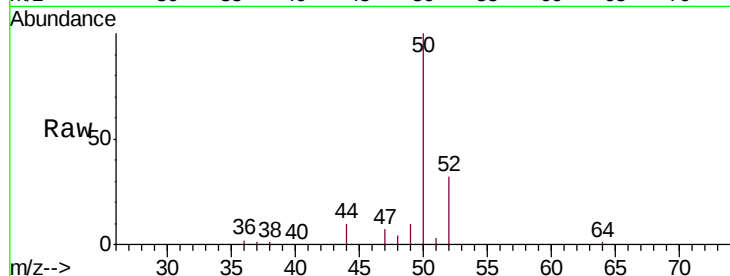
ICVVX073018

Tgt Ion: 50 Resp: 64566

Ion Ratio Lower Upper

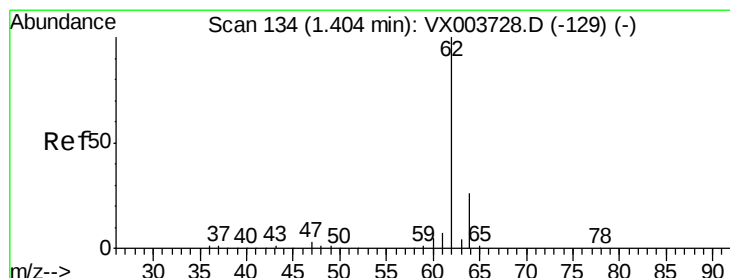
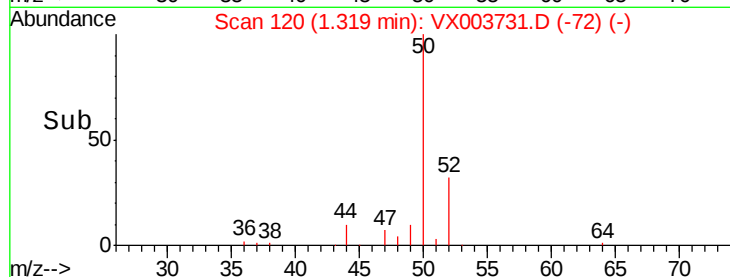
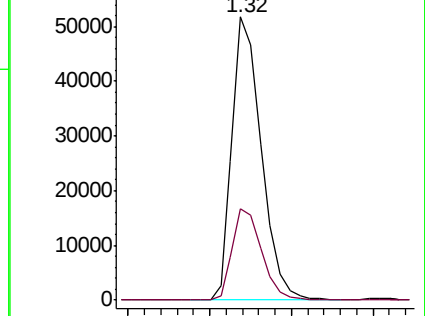
50 100

52 32.5 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: 46.364 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003731.D

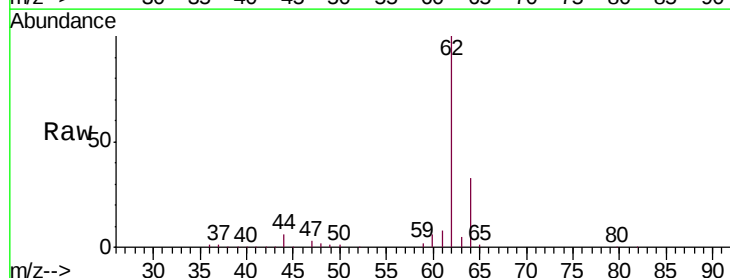
Acq: 30 Jul 2018 18:31

Tgt Ion: 62 Resp: 65811

Ion Ratio Lower Upper

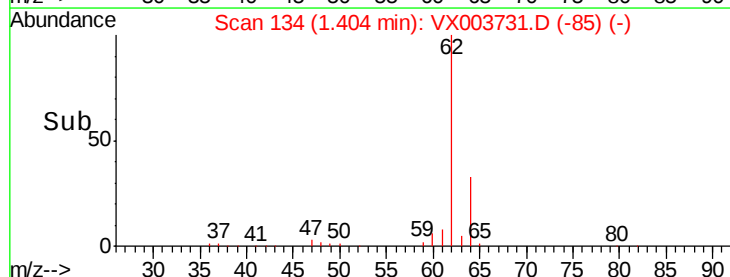
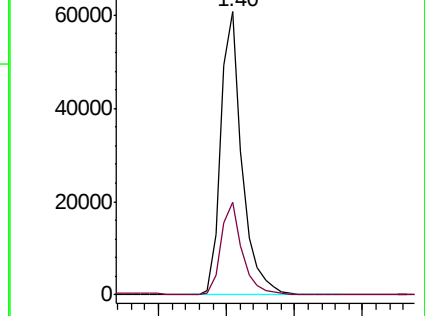
62 100

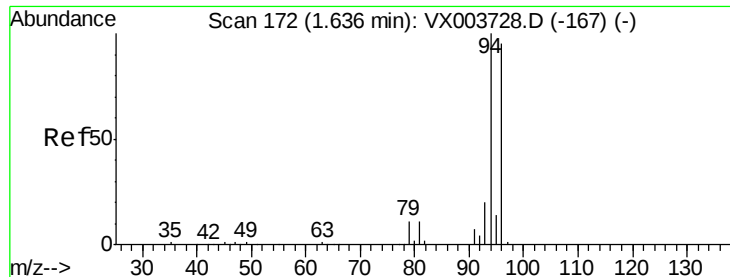
64 32.5 21.0 31.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 55.385 ug/l

RT: 1.63 min Scan# 171

Delta R.T. -0.01 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

Instrument :

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ClientSampleId :

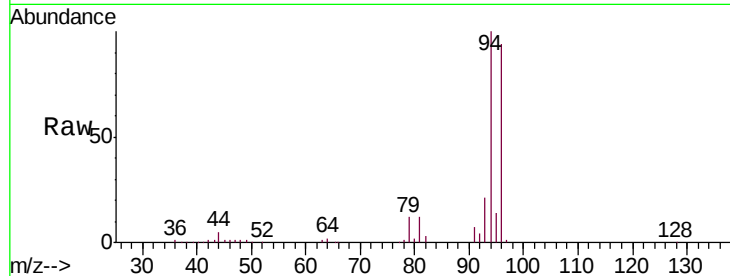
ICVVX073018

Tgt Ion: 94 Resp: 42706

Ion Ratio Lower Upper

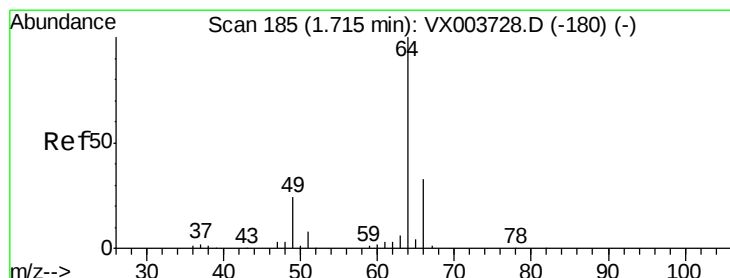
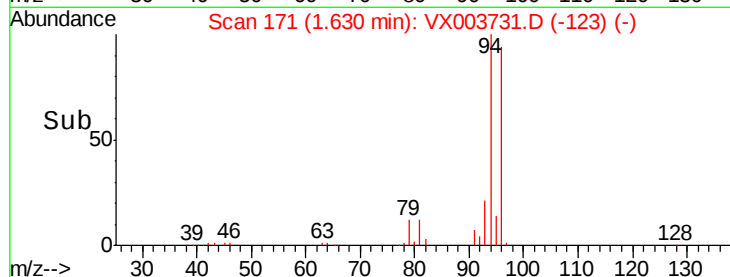
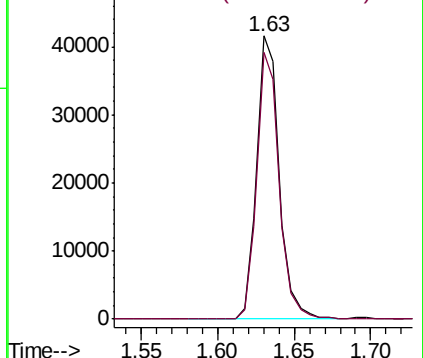
94 100

96 94.4 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 45.921 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.00 min

Lab File: VX003731.D

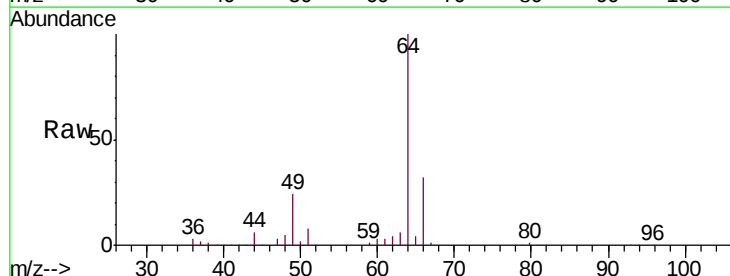
Acq: 30 Jul 2018 18:31

Tgt Ion: 64 Resp: 41070

Ion Ratio Lower Upper

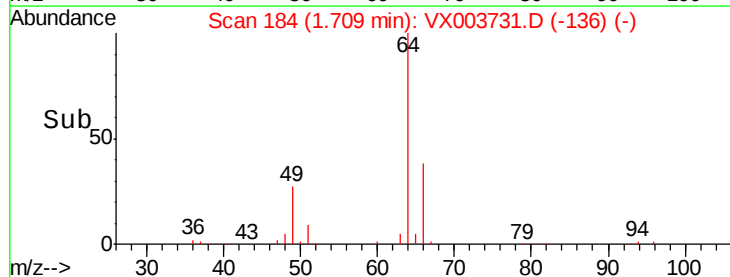
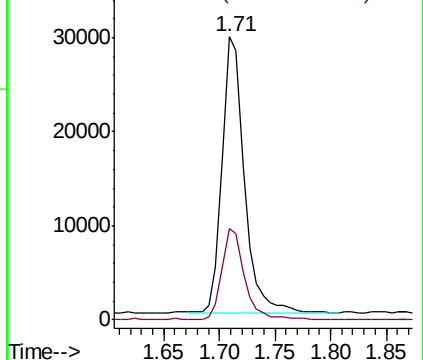
64 100

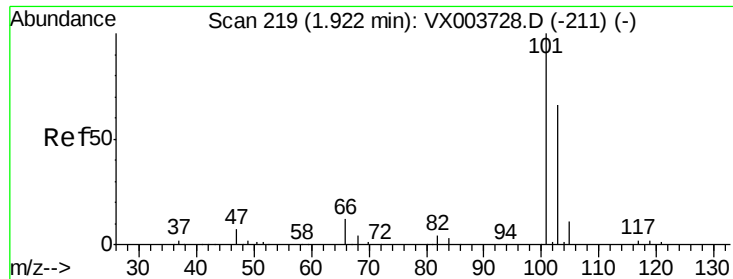
66 32.9 26.4 39.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



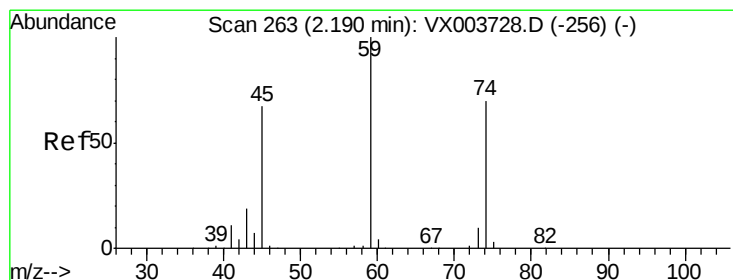
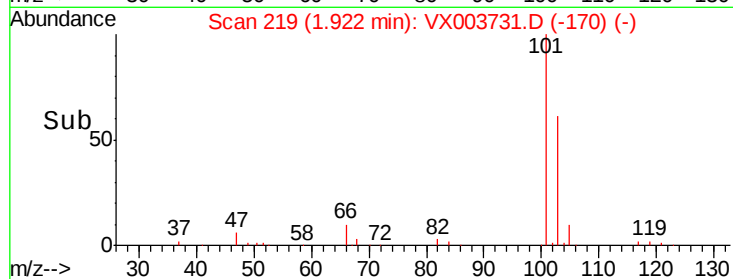
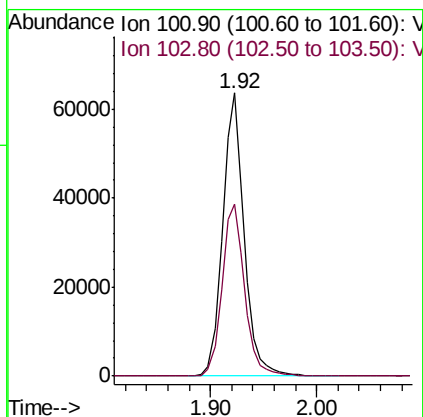
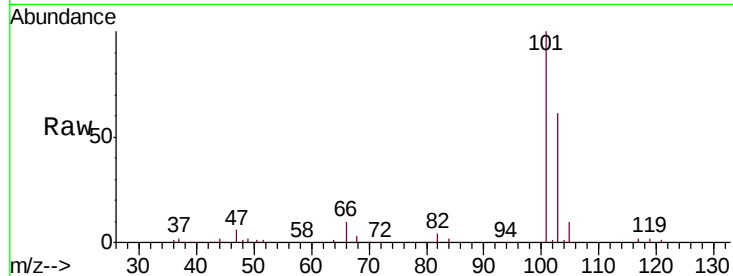


#7

Trichlorofluoromethane
Concen: 47.949 ug/l
RT: 1.92 min Scan# 219
Delta R.T. 0.00 min
Lab File: VX003731.D
Acq: 30 Jul 2018 18:31

Instrument :
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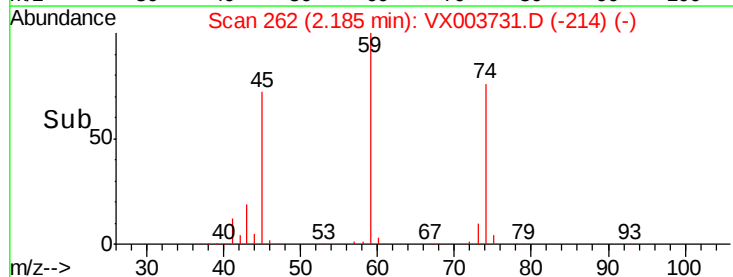
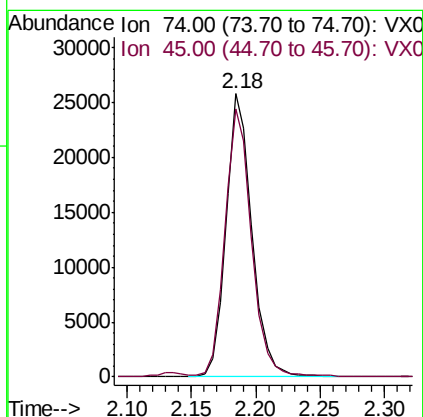
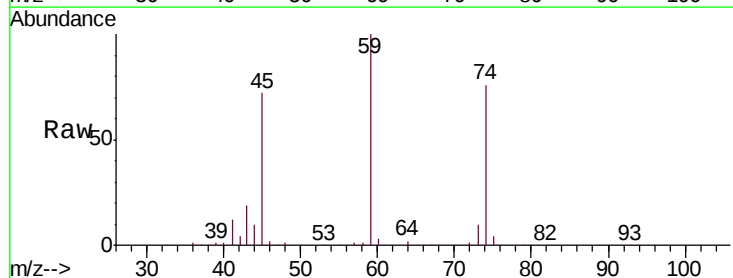
Tgt Ion:101 Resp: 89248
Ion Ratio Lower Upper
101 100
103 60.9 52.6 78.8

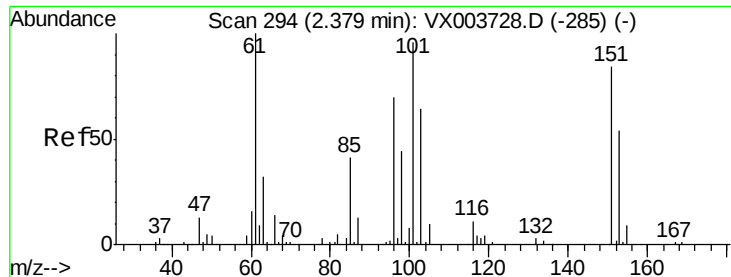


#8

Diethyl Ether
Concen: 51.637 ug/l
RT: 2.18 min Scan# 262
Delta R.T. -0.01 min
Lab File: VX003731.D
Acq: 30 Jul 2018 18:31

Tgt Ion: 74 Resp: 36324
Ion Ratio Lower Upper
74 100
45 97.9 49.5 148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.455 ug/l

RT: 2.37 min Scan# 293

Delta R.T. -0.01 min

Lab File: VX003731.D

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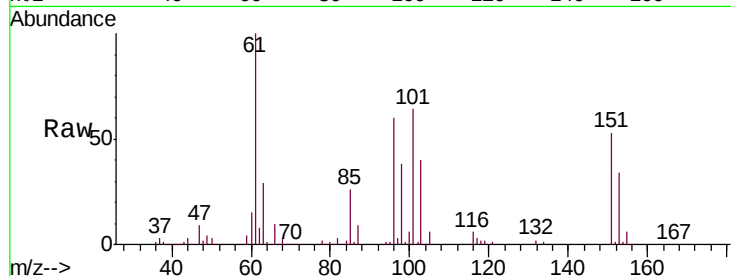
Tgt Ion:101 Resp: 57212

Ion Ratio Lower Upper

101 100

85 41.7 33.3 49.9

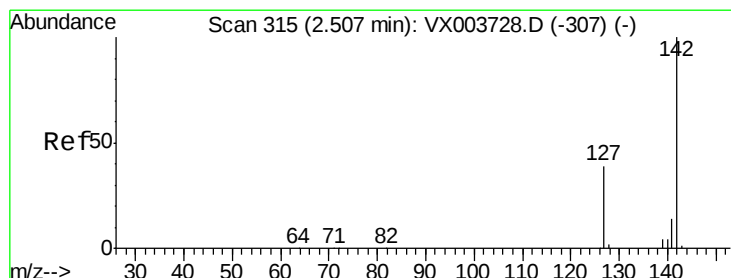
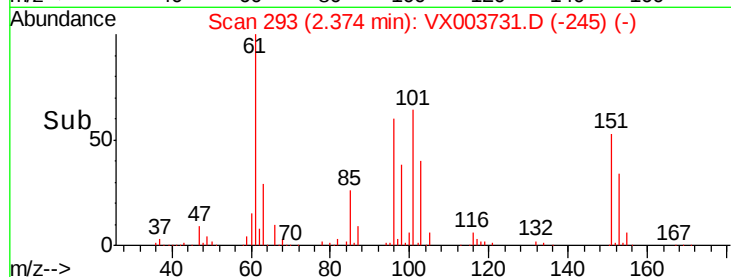
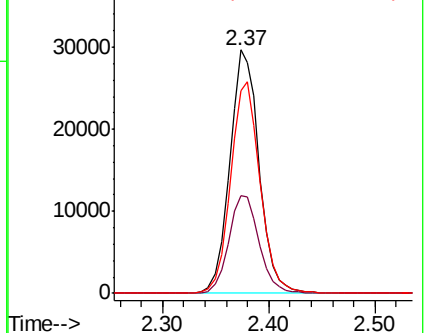
151 86.9 68.8 103.2



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: 52.121 ug/l

RT: 2.51 min Scan# 315

Delta R.T. 0.00 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

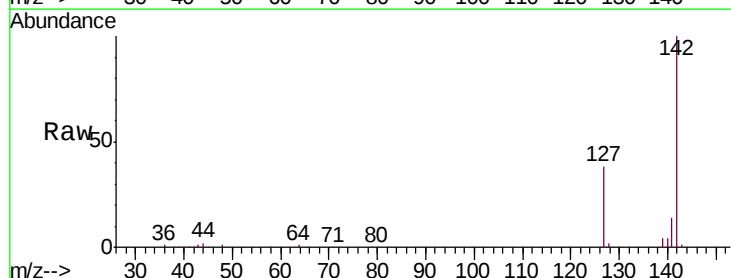
Tgt Ion:142 Resp: 70753

Ion Ratio Lower Upper

142 100

127 39.7 32.0 48.0

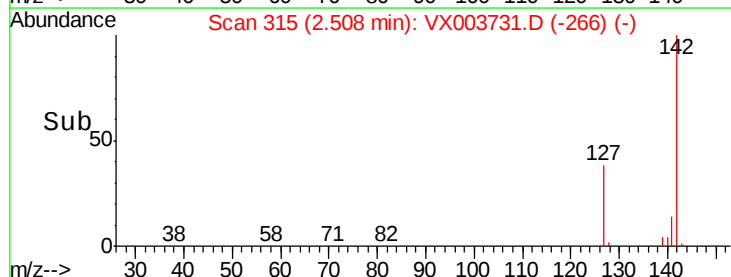
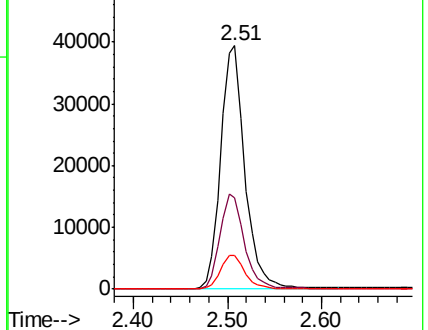
141 14.0 11.3 16.9

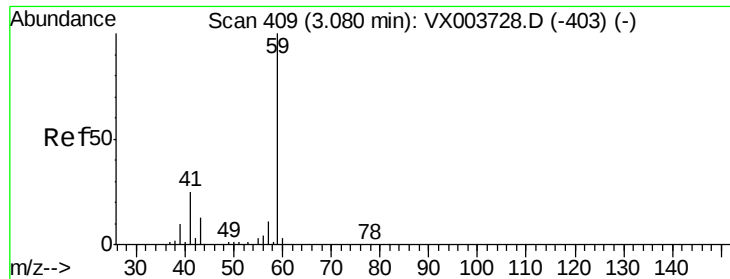


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

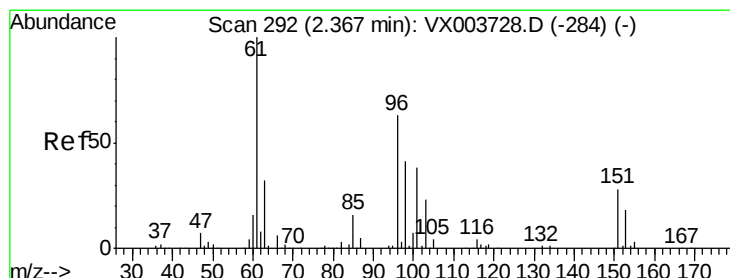
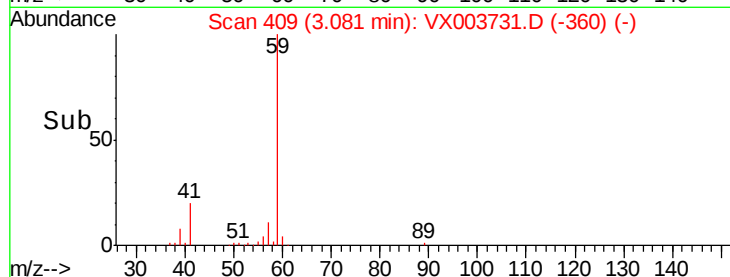
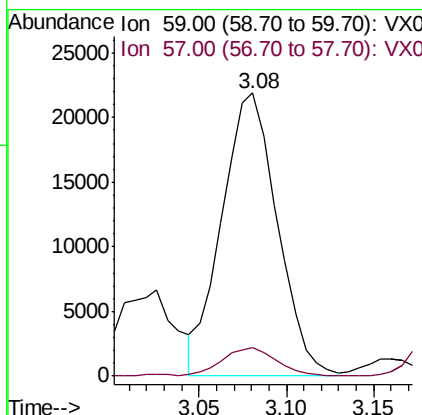
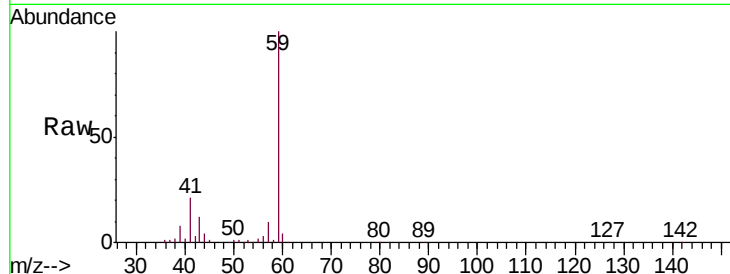




#11
Tert butyl alcohol
Concen: 237.461 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX003731.D
Acq: 30 Jul 2018 18:31

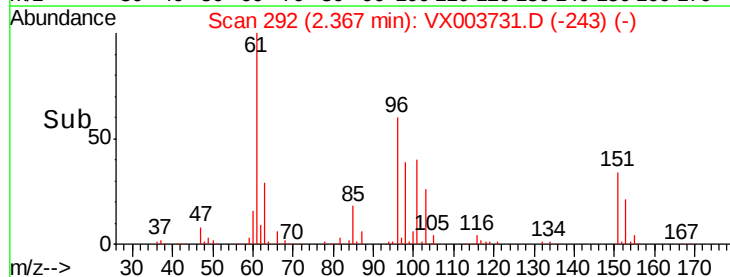
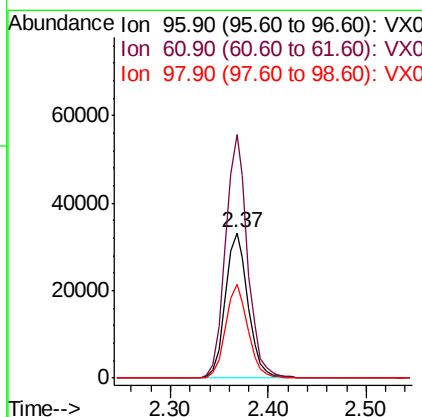
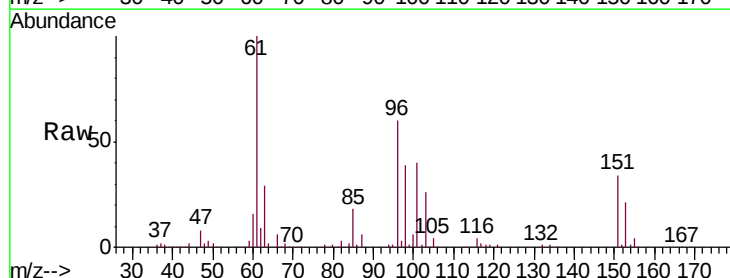
Instrument :
MSVOA_X
ClientSampleId :
ICVVX073018

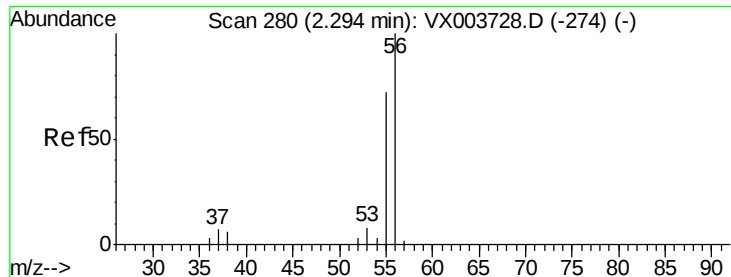
Tgt Ion: 59 Resp: 48367
Ion Ratio Lower Upper
59 100
57 10.6 8.1 12.1



#12
1,1-Dichloroethene
Concen: 48.331 ug/l
RT: 2.37 min Scan# 292
Delta R.T. 0.00 min
Lab File: VX003731.D
Acq: 30 Jul 2018 18:31

Tgt Ion: 96 Resp: 53729
Ion Ratio Lower Upper
96 100
61 167.5 127.1 190.7
98 64.9 52.0 78.0





#13

Acrolein

Concen: 159.139 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

Instrument :

MSVOA_X

ClientSampleId :

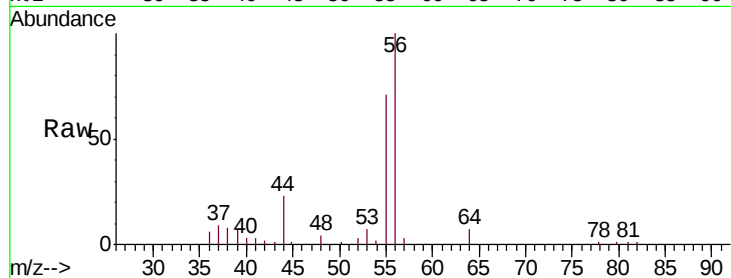
ICVVX073018

Tgt Ion: 56 Resp: 10605

Ion Ratio Lower Upper

56 100

55 70.1 61.4 92.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

8000

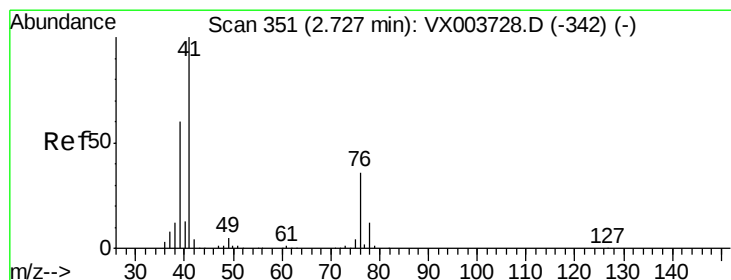
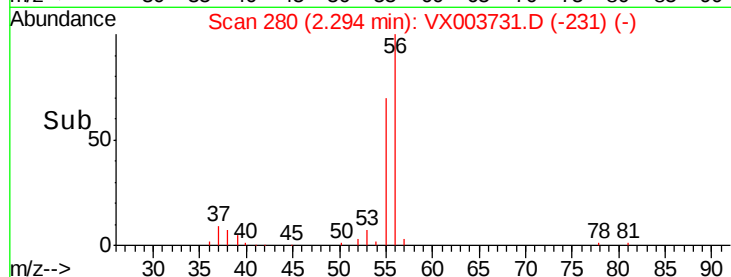
6000

4000

2000

0

Time--> 2.20 2.25 2.30 2.35 2.40



#14

Allyl chloride

Concen: 50.288 ug/l

RT: 2.72 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

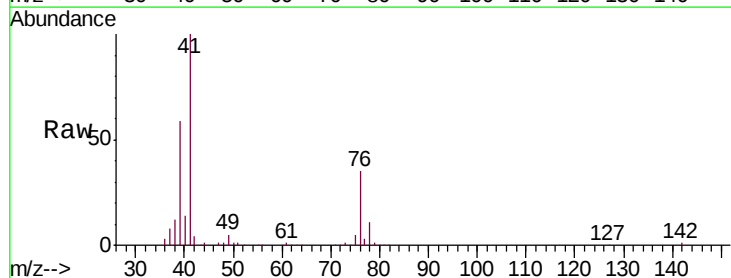
Tgt Ion: 41 Resp: 99101

Ion Ratio Lower Upper

41 100

39 58.2 47.7 71.5

76 33.8 27.0 40.6



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

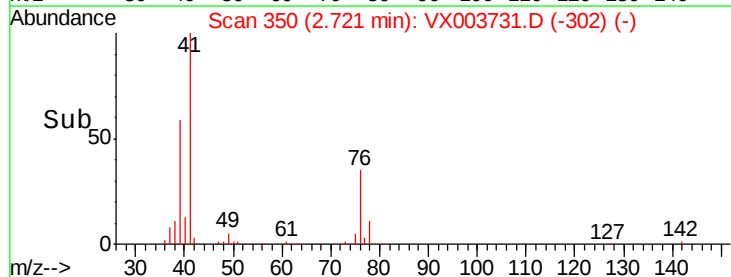
60000

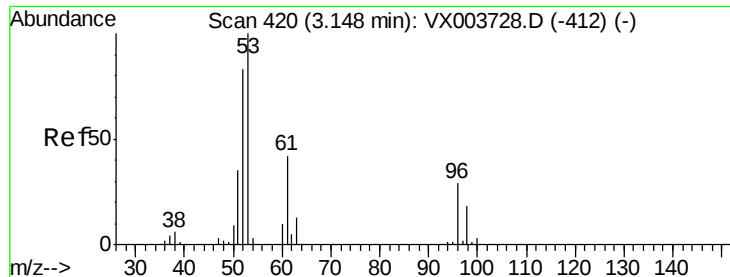
40000

20000

0

Time--> 2.60 2.70 2.80





#15

Acrylonitrile

Concen: 245.927 ug/l

RT: 3.15 min Scan# 420

Delta R.T. 0.00 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

Instrument :

MSVOA_X

ClientSampleId :

ICVVX073018

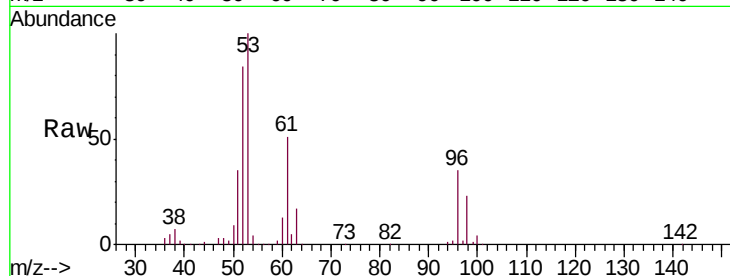
Tgt Ion: 53 Resp: 127390

Ion Ratio Lower Upper

53 100

52 83.0 66.2 99.2

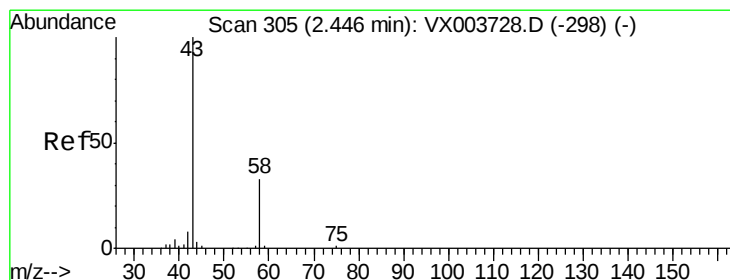
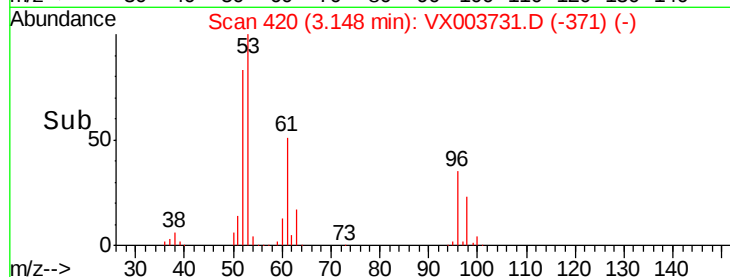
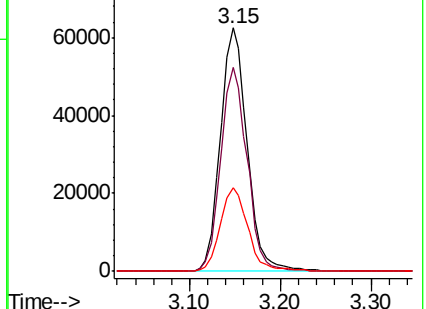
51 35.9 28.5 42.7



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 247.325 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003731.D

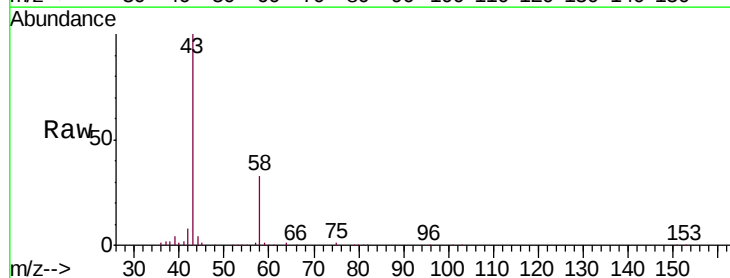
Acq: 30 Jul 2018 18:31

Tgt Ion: 43 Resp: 118835

Ion Ratio Lower Upper

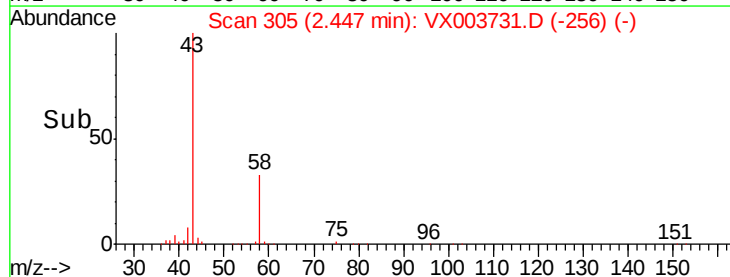
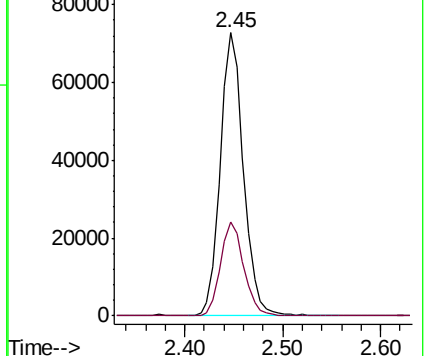
43 100

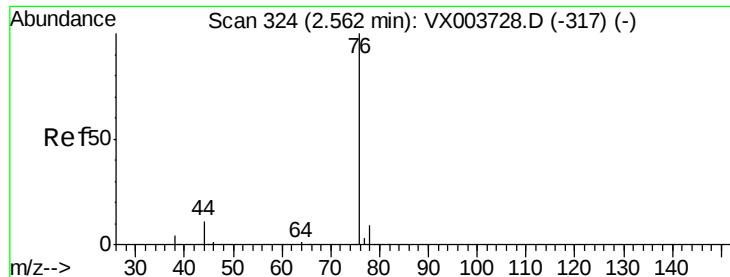
58 33.2 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 47.720 ug/l

RT: 2.56 min Scan# 324

Delta R.T. 0.00 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

Instrument :

MSVOA_X

ClientSampleId :

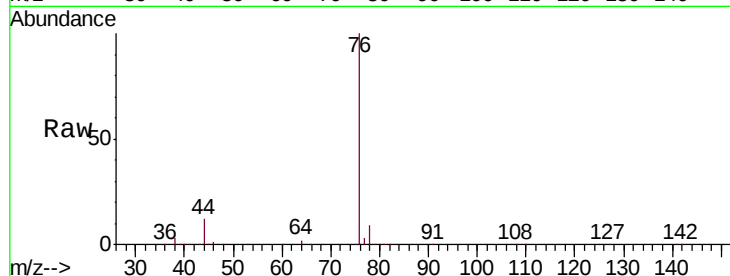
ICVVX073018

Tgt Ion: 76 Resp: 172604

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

2.56

100000

80000

60000

40000

20000

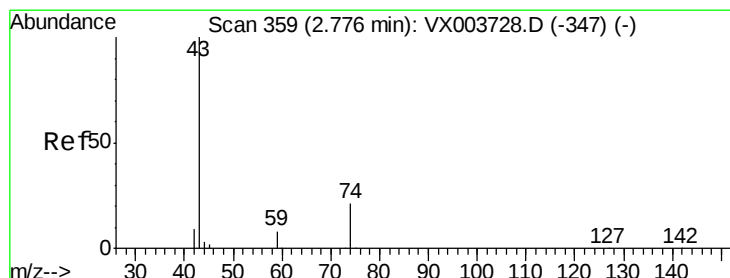
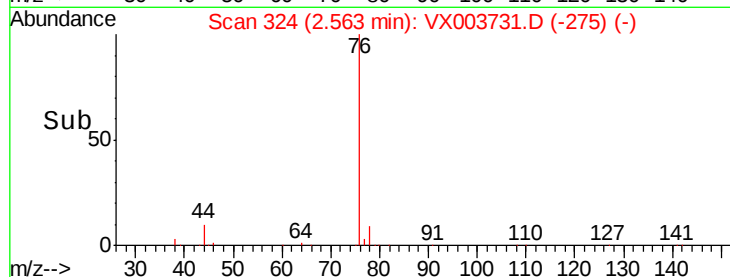
0

Time-->

2.50

2.60

2.70



#18

Methyl Acetate

Concen: 44.552 ug/l

RT: 2.78 min Scan# 359

Delta R.T. 0.00 min

Lab File: VX003731.D

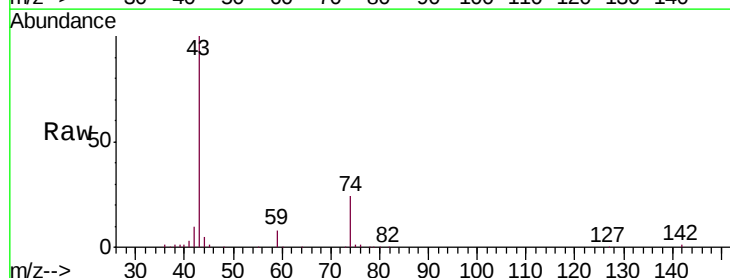
Acq: 30 Jul 2018 18:31

Tgt Ion: 43 Resp: 60155

Ion Ratio Lower Upper

43 100

74 23.3 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

40000

30000

20000

10000

0

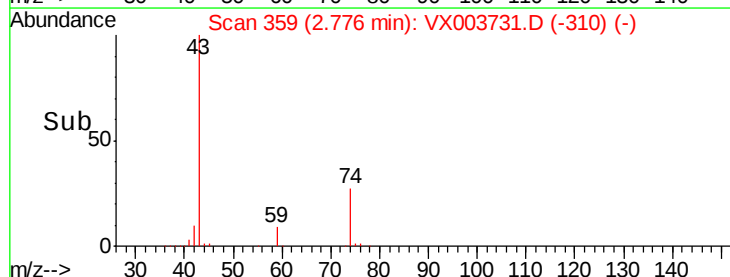
Time-->

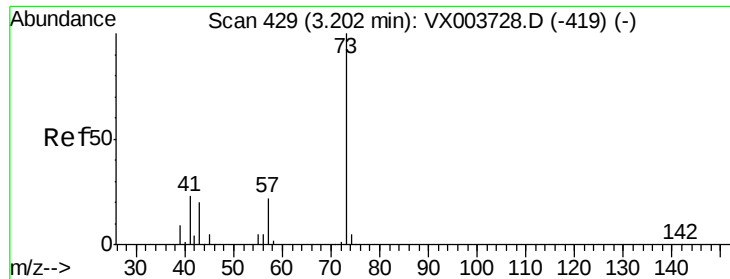
2.70

2.75

2.80

2.85

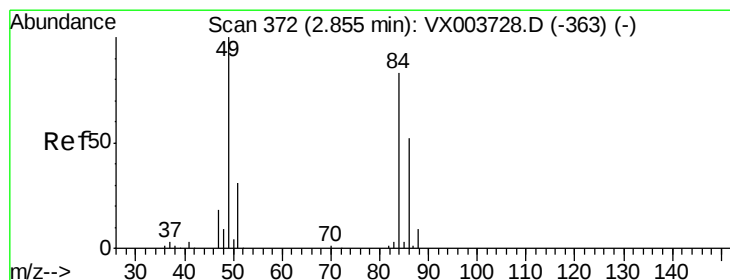
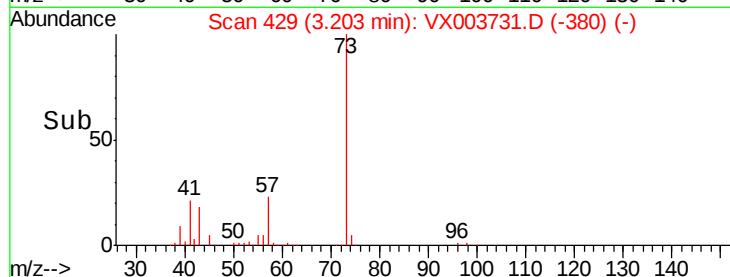
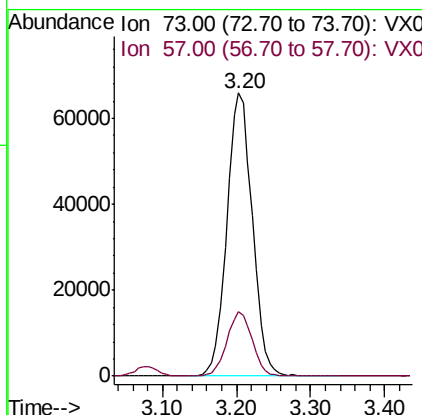
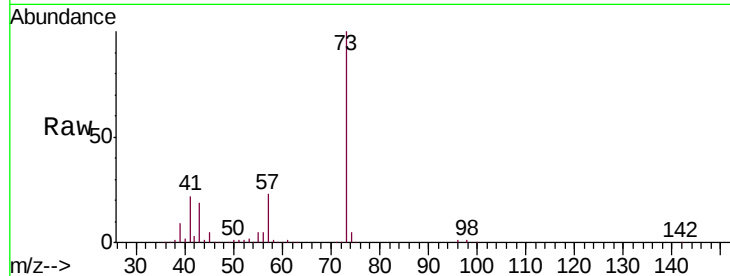




#19
Methyl tert-butyl Ether
Concen: 52.004 ug/l
RT: 3.20 min Scan# 429
Delta R.T. 0.00 min
Lab File: VX003731.D
Acq: 30 Jul 2018 18:31

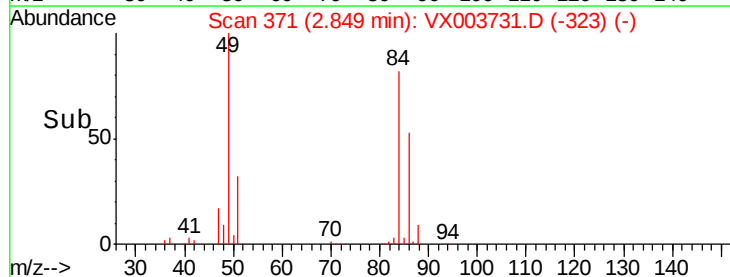
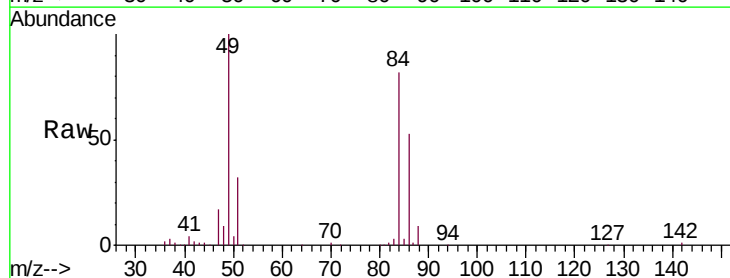
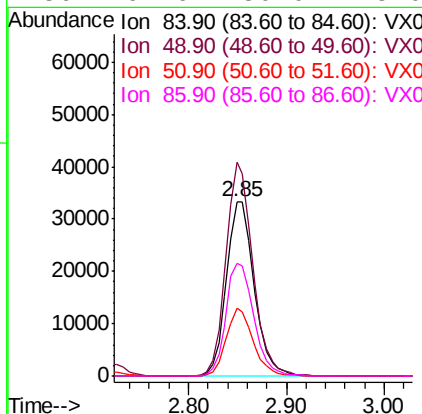
Instrument :
MSVOA_X
ClientSampleId :
ICVVX073018

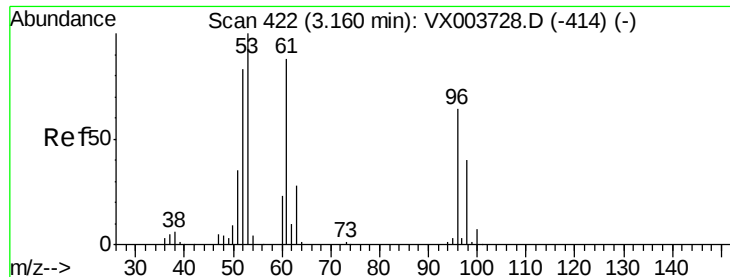
Tgt Ion: 73 Resp: 157363
Ion Ratio Lower Upper
73 100
57 22.9 18.0 27.0



#20
Methylene Chloride
Concen: 51.906 ug/l
RT: 2.85 min Scan# 371
Delta R.T. -0.00 min
Lab File: VX003731.D
Acq: 30 Jul 2018 18:31

Tgt Ion: 84 Resp: 65526
Ion Ratio Lower Upper
84 100
49 122.3 95.8 143.8
51 38.7 29.6 44.4
86 64.6 50.0 75.0





#21

trans-1,2-Dichloroethene

Concen: 48.700 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.00 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

Instrument :

MSVOA_X

ClientSampleId :

ICVVX073018

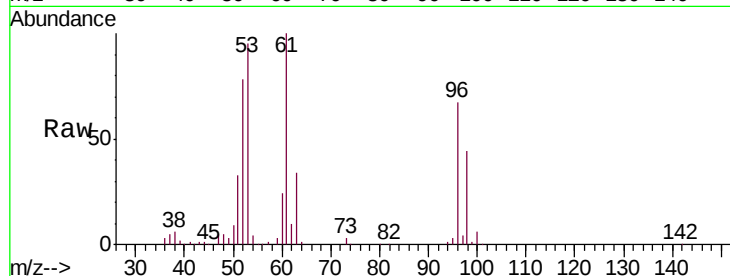
Tgt Ion: 96 Resp: 59322

Ion Ratio Lower Upper

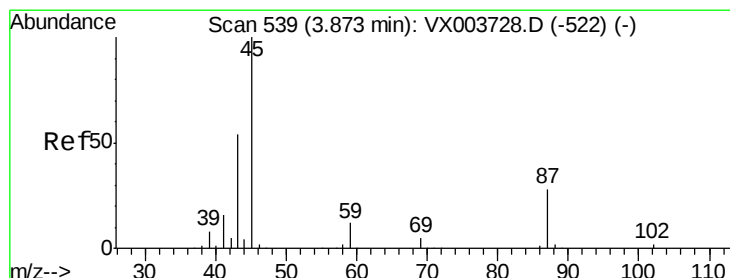
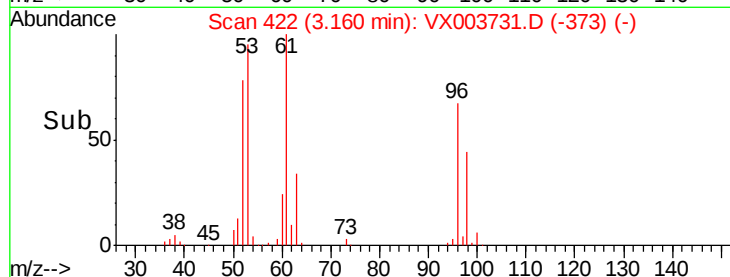
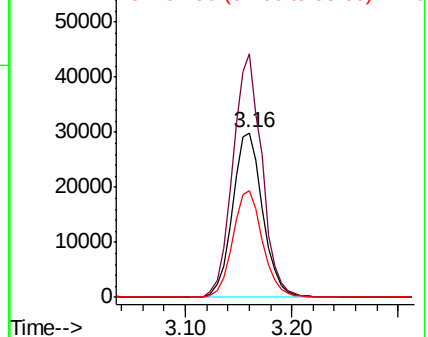
96 100

61 148.2 110.9 166.3

98 65.0 50.2 75.4



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: 50.914 ug/l

RT: 3.87 min Scan# 538

Delta R.T. -0.01 min

Lab File: VX003731.D

Acq: 30 Jul 2018 18:31

Tgt Ion: 45 Resp: 181126

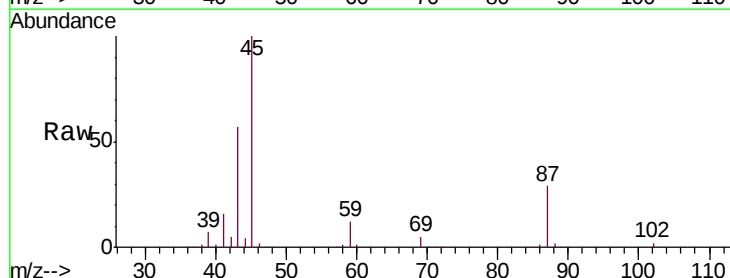
Ion Ratio Lower Upper

45 100

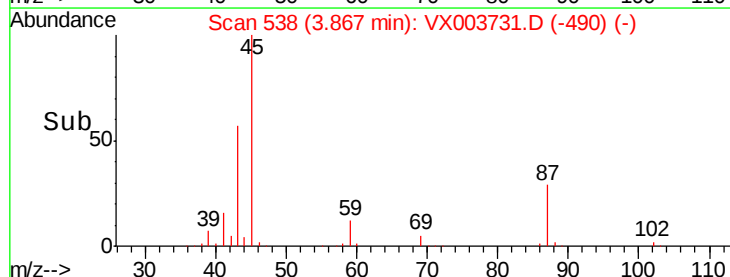
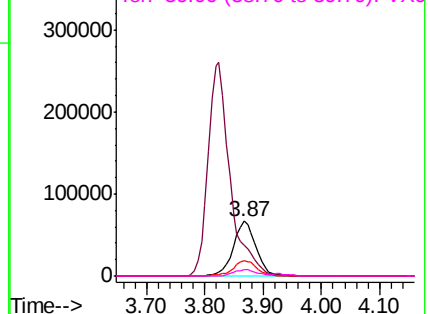
43 57.2 43.5 65.3

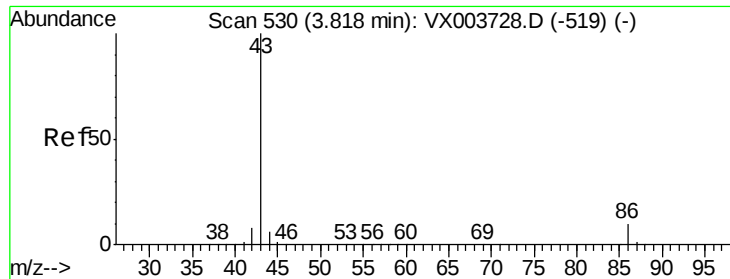
87 28.5 22.6 33.8

59 11.8 9.3 13.9



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

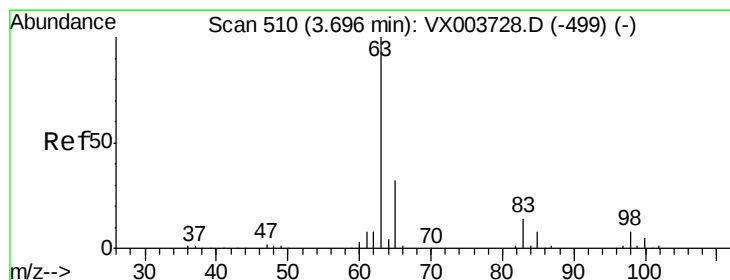
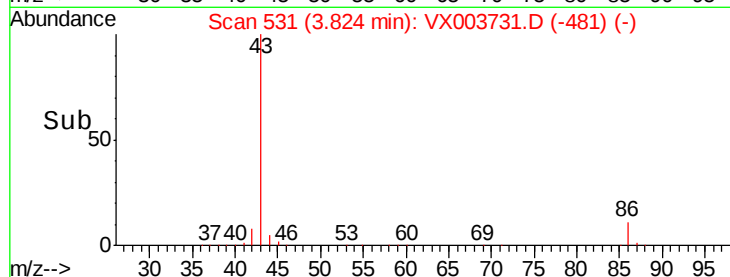
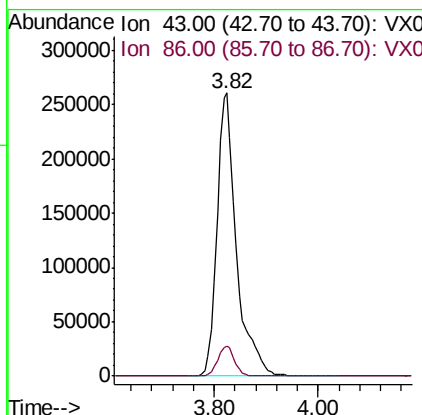
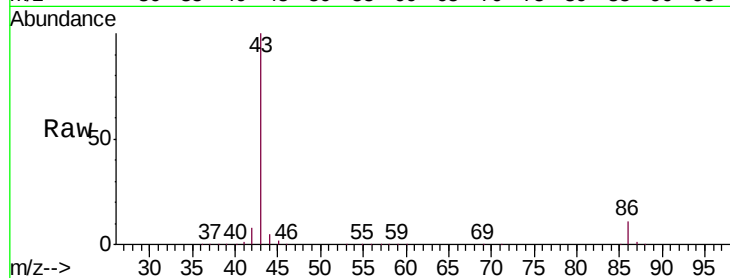




#23
 Vinyl Acetate
 Concen: 267.251 ug/l
 RT: 3.82 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VX003731.D
 Acq: 30 Jul 2018 18:31

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX073018

Tgt Ion: 43 Resp: 685703
 Ion Ratio Lower Upper
 43 100
 86 10.6 8.2 12.2



#24
 1,1-Dichloroethane
 Concen: 50.451 ug/l
 RT: 3.70 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VX003731.D
 Acq: 30 Jul 2018 18:31

Tgt Ion: 63 Resp: 104668
 Ion Ratio Lower Upper
 63 100
 98 6.4 4.0 12.0
 100 4.1 2.4 7.2

