

Data File : VX000160.D

Acq On : 28 Feb 2018 11:17

Operator : JC/MD

Sample : VSTDCCC050

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Mar 01 06:19:51 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X021418W.M

Quant Title : SW846 8260

QLast Update : Thu Feb 15 12:46:41 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	136291	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	224296	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	228576	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	139563	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	93590	54.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.98%	
35) Dibromofluoromethane	5.51	113	73105	51.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.28%	
50) Toluene-d8	8.72	98	301062	53.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.82%	
62) 4-Bromofluorobenzene	11.15	95	122899	56.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	59390	42.32	ug/l	99
3) Chloromethane	1.32	50	53695	39.01	ug/l	99
4) Vinyl Chloride	1.41	62	68416	44.62	ug/l	100
5) Bromomethane	1.64	94	74295	61.53	ug/l	100
6) Chloroethane	1.72	64	44307	43.03	ug/l	97
7) Trichlorofluoromethane	1.93	101	125008	45.59	ug/l	97
8) Diethyl Ether	2.19	74	43581	46.06	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.39	101	69965	45.66	ug/l	95
10) Methyl Iodide	2.51	142	55462	33.04	ug/l	96
11) Tert butyl alcohol	3.07	59	167981	256.11	ug/l	99
12) 1,1-Dichloroethene	2.38	96	60632	42.48	ug/l	95
13) Acrolein	2.29	56	13706	43.75	ug/l	95
14) Allyl chloride	2.73	41	114856	48.07	ug/l	96
15) Acrylonitrile	3.15	53	274314	244.90	ug/l	99
16) Acetone	2.45	43	392321	355.42	ug/l	98
17) Carbon Disulfide	2.57	76	141582	33.69	ug/l	98
18) Methyl Acetate	2.78	43	145675	56.28	ug/l	97
19) Methyl tert-butyl Ether	3.21	73	241729	49.34	ug/l	99
20) Methylene Chloride	2.86	84	66951	47.58	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	66140	42.74	ug/l	94
22) Diisopropyl ether	3.88	45	228775	54.80	ug/l	97
23) Vinyl Acetate	3.83	43	1069386	275.64	ug/l	97
24) 1,1-Dichloroethane	3.70	63	123274	49.84	ug/l	98
25) 2-Butanone	4.71	43	437452	283.87	ug/l	98
26) 2,2-Dichloropropane	4.59	77	97944	45.55	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	67940	46.09	ug/l	99
28) Bromochloromethane	5.03	49	60542	54.59	ug/l	90
29) Tetrahydrofuran	5.17	42	257330	256.43	ug/l	97
30) Chloroform	5.22	83	128611	49.41	ug/l	98
31) Cyclohexane	5.59	56	96719	45.48	ug/l	95
32) 1,1,1-Trichloroethane	5.51	97	114694	47.88	ug/l	98
36) 1,1-Dichloropropene	5.81	75	92246	45.83	ug/l	97
37) Ethyl Acetate	4.87	43	134045	48.47	ug/l	97
38) Carbon Tetrachloride	5.79	117	95971	44.14	ug/l	98

Data File : VX000160.D

Acq On : 28 Feb 2018 11:17

Operator : JC/MD

Sample : VSTDCCC050

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Mar 01 06:19:51 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X021418W.M

Quant Title : SW846 8260

QLast Update : Thu Feb 15 12:46:41 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.47	83	114205	47.13	ug/l	99
40) Benzene	6.15	78	267689	46.55	ug/l	100
41) Methacrylonitrile	5.07	41	70764	53.35	ug/l	99
42) 1,2-Dichloroethane	6.20	62	106882	50.65	ug/l	98
43) Isopropyl Acetate	6.48	43	204461	51.27	ug/l	98
44) Trichloroethene	7.22	130	79337	46.85	ug/l	97
45) 1,2-Dichloropropane	7.52	63	72977	51.78	ug/l	98
46) Dibromomethane	7.67	93	55296	50.28	ug/l	94
47) Bromodichloromethane	7.90	83	105741	52.05	ug/l	98
48) Methyl methacrylate	7.79	41	99989	51.15	ug/l	97
49) 1,4-Dioxane	7.77	88	51667	1008.04	ug/l	96
51) 4-Methyl-2-Pentanone	8.66	43	801498	274.96	ug/l	97
52) Toluene	8.79	92	192365	50.07	ug/l	99
53) t-1,3-Dichloropropene	8.45	75	120158	50.30	ug/l	97
54) cis-1,3-Dichloropropene	9.05	75	124433	52.46	ug/l	98
55) 1,1,2-Trichloroethane	9.22	97	80854	50.89	ug/l	97
56) Ethyl methacrylate	9.19	69	127632	52.35	ug/l	93
57) 1,3-Dichloropropane	9.38	76	131796	52.23	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	288116	233.79	ug/l	96
59) 2-Hexanone	9.51	43	712333	288.63	ug/l	98
60) Dibromochloromethane	9.59	129	91811	51.02	ug/l	99
61) 1,2-Dibromoethane	9.68	107	90431	51.29	ug/l	97
64) Tetrachloroethene	9.34	164	73207	43.98	ug/l	96
65) Chlorobenzene	10.15	112	233810	48.45	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.23	131	82051	48.59	ug/l	99
67) Ethyl Benzene	10.26	91	397936	49.12	ug/l	100
68) m/p-Xylenes	10.37	106	311156	97.00	ug/l	97
69) o-Xylene	10.71	106	152264	49.22	ug/l	97
70) Styrene	10.72	104	255341	50.48	ug/l	98
71) Bromoform	10.87	173	72321	47.16	ug/l #	100
73) Isopropylbenzene	11.02	105	415533	46.98	ug/l	99
74) N-amyl acetate	6.48	43	204461	45.76	ug/l #	98
75) 1,1,2,2-Tetrachloroethane	11.27	83	149748	48.61	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	181821	62.89	ug/l	80
77) Bromobenzene	11.26	156	104796	43.72	ug/l	93
78) n-propylbenzene	11.37	91	494947	47.46	ug/l	99
79) 2-Chlorotoluene	11.43	91	279181	46.79	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	363639	48.63	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.09	75	48378	47.66	ug/l	94
82) 4-Chlorotoluene	11.52	91	348351	48.26	ug/l	96
83) tert-Butylbenzene	11.78	119	364299	48.24	ug/l	99
84) 1,2,4-Trimethylbenzene	11.82	105	372075	47.92	ug/l	100
85) sec-Butylbenzene	11.96	105	457642	48.80	ug/l	99
86) p-Isopropyltoluene	12.07	119	412214	49.19	ug/l	99
87) 1,3-Dichlorobenzene	12.04	146	209374	45.53	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	219777	46.25	ug/l	99
89) n-Butylbenzene	12.40	91	386505	48.91	ug/l	98
90) Hexachloroethane	12.60	117	66460	48.71	ug/l	91
91) 1,2-Dichlorobenzene	12.40	146	207758	45.90	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.01	75	45368	53.06	ug/l	89

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX022818\
Quantitation Report (Not Reviewed)

Data File : VX000160.D
Acq On : 28 Feb 2018 11:17
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Mar 01 06:19:51 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X021418W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 15 12:46:41 2018
Response via : Initial Calibration

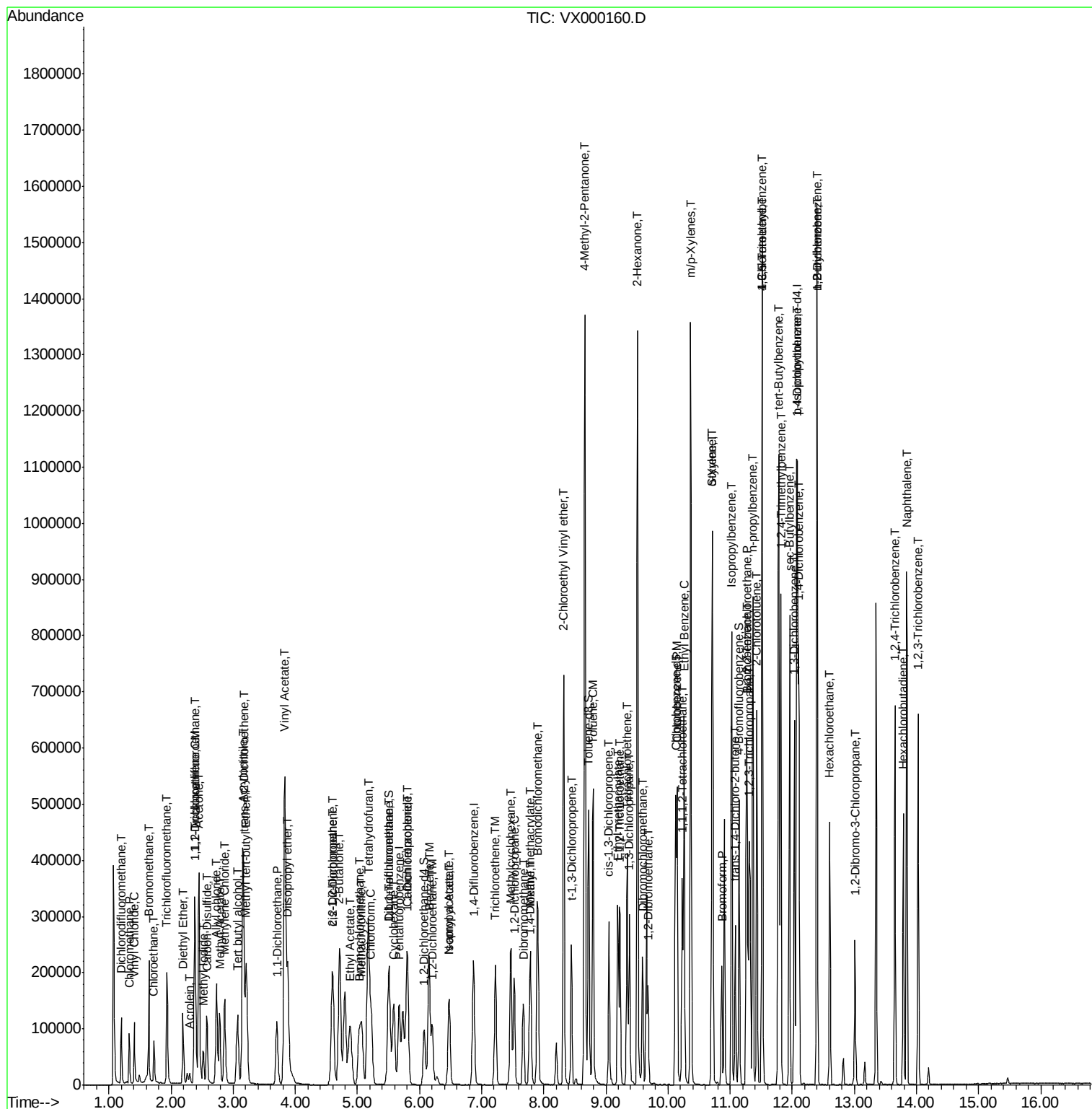
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	151616	44.65	ug/l	99
94) Hexachlorobutadiene	13.79	225	63481	42.84	ug/l	99
95) Naphthalene	13.84	128	548538	47.64	ug/l	100
96) 1,2,3-Trichlorobenzene	14.03	180	148903	44.42	ug/l	99

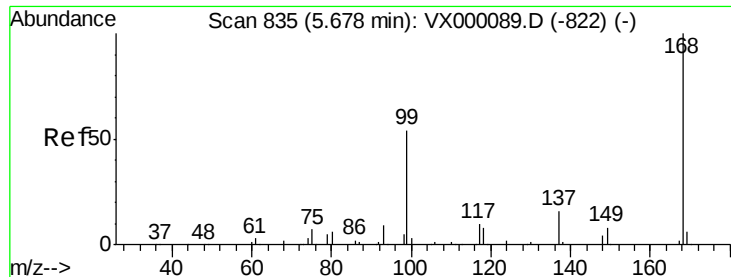
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
ALS Vial      : 2      Sample Multiplier: 1
```

ClientSampleId :

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000160.D

Acq: 28 Feb 2018 11:17

Instrument :

MSVOA_X

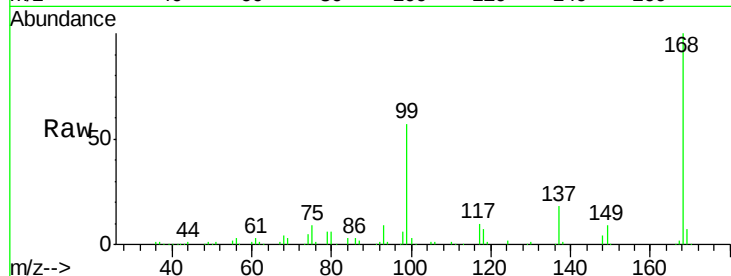
ClientSampleId :

Tgt Ion:168 Resp: 136291

Ion Ratio Lower Upper

168 100

99 57.3 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

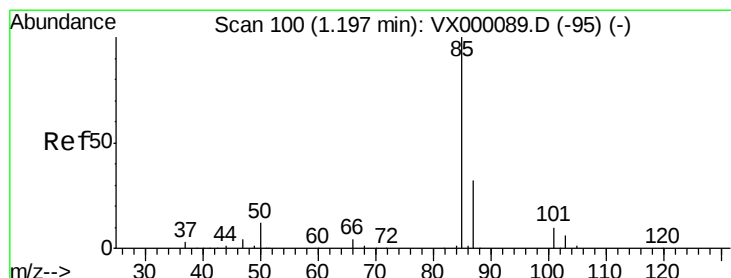
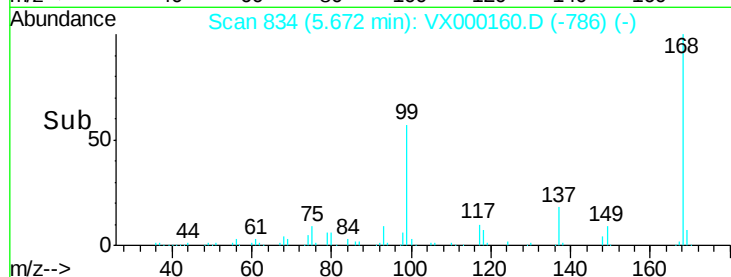
20000

10000

0

5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 42.32 ug/l

RT: 1.20 min Scan# 100

Delta R.T. -0.00 min

Lab File: VX000160.D

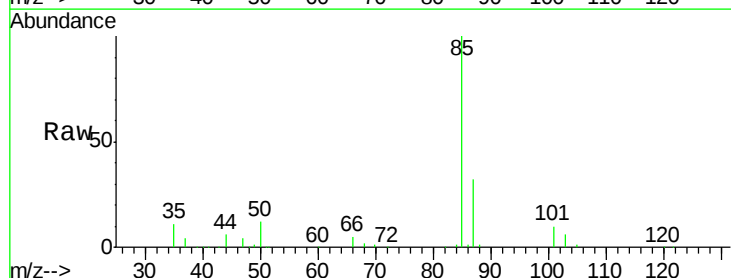
Acq: 28 Feb 2018 11:17

Tgt Ion: 85 Resp: 59390

Ion Ratio Lower Upper

85 100

87 32.4 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60000

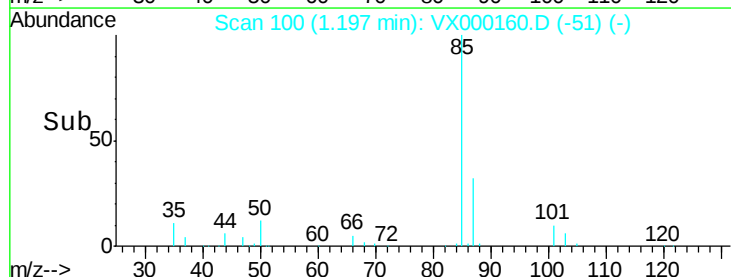
40000

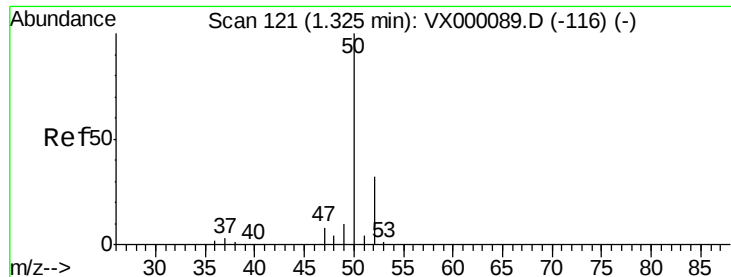
20000

0

1.15 1.20 1.25 1.30

Time-->





#3

Chloromethane

Concen: 39.01 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX000160.D

Acq: 28 Feb 2018 11:17

Instrument :

MSVOA_X

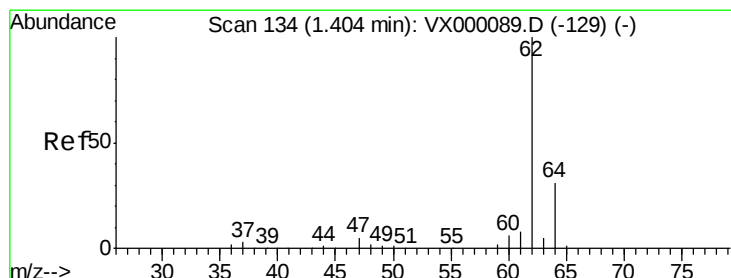
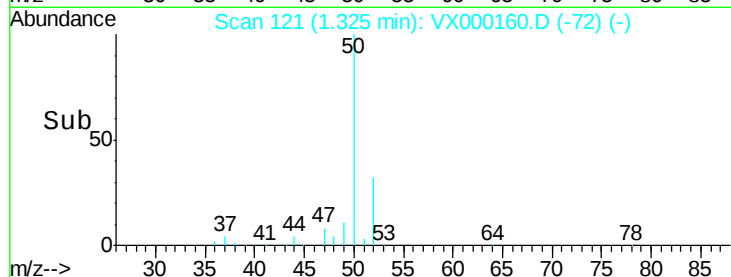
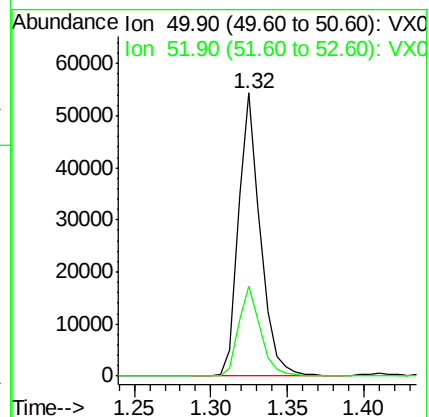
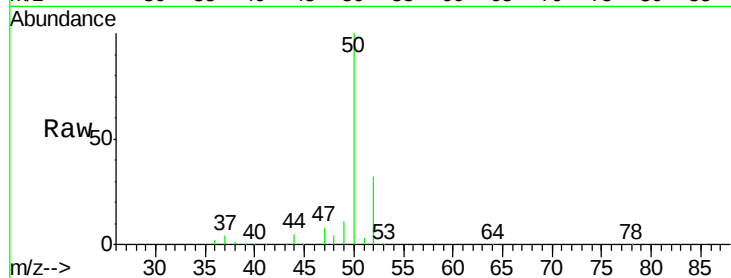
ClientSampleId :

Tgt Ion: 50 Resp: 53695

Ion Ratio Lower Upper

50 100

52 31.8 25.9 38.9



#4

Vinyl Chloride

Concen: 44.62 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX000160.D

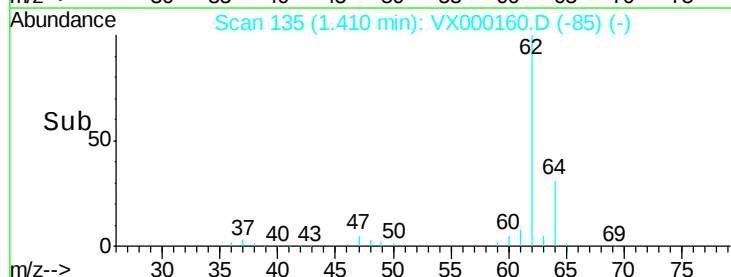
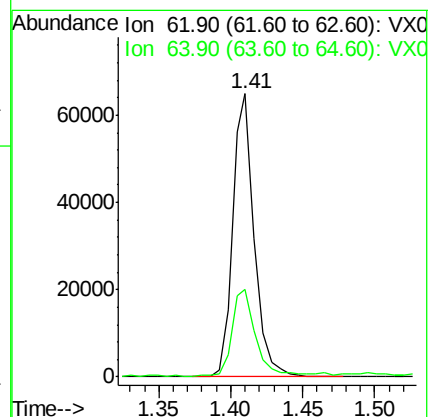
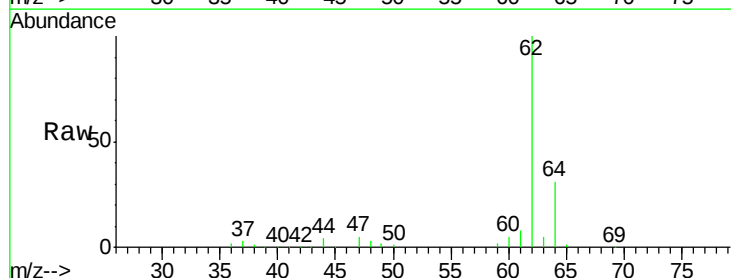
Acq: 28 Feb 2018 11:17

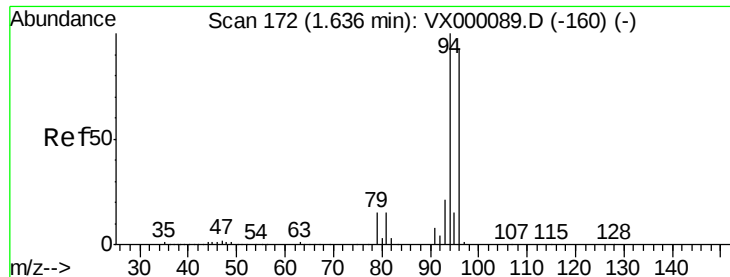
Tgt Ion: 62 Resp: 68416

Ion Ratio Lower Upper

62 100

64 30.8 24.6 37.0





#5

Bromomethane

Concen: 61.53 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX000160.D

Acq: 28 Feb 2018 11:17

Instrument :

MSVOA_X

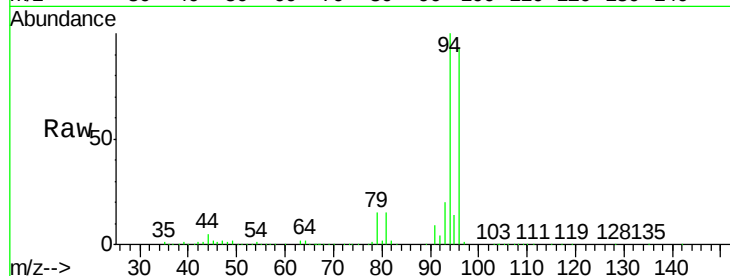
ClientSampleId :

Tgt Ion: 94 Resp: 74295

Ion Ratio Lower Upper

94 100

96 93.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

80000

60000

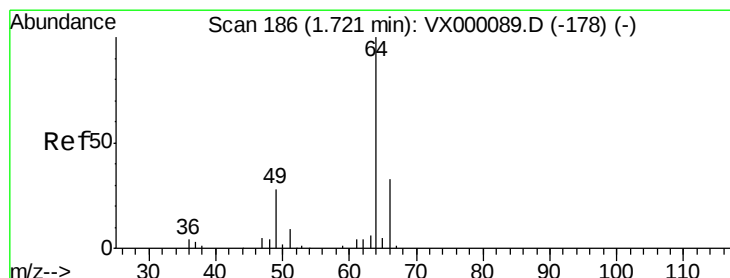
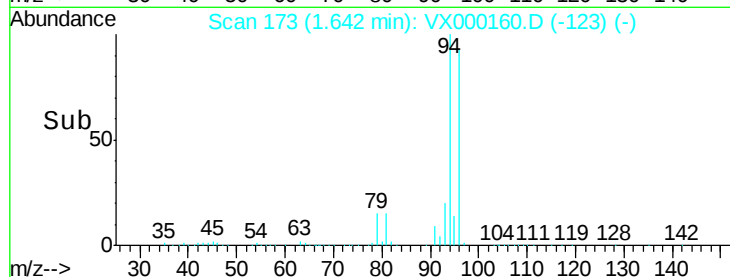
40000

20000

0

Time-->

1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: 43.03 ug/l

RT: 1.72 min Scan# 186

Delta R.T. -0.00 min

Lab File: VX000160.D

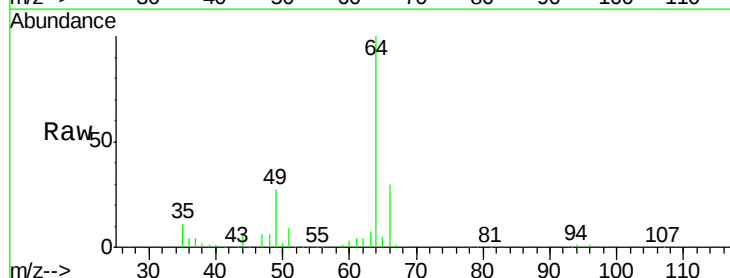
Acq: 28 Feb 2018 11:17

Tgt Ion: 64 Resp: 44307

Ion Ratio Lower Upper

64 100

66 30.9 26.0 39.0



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

30000

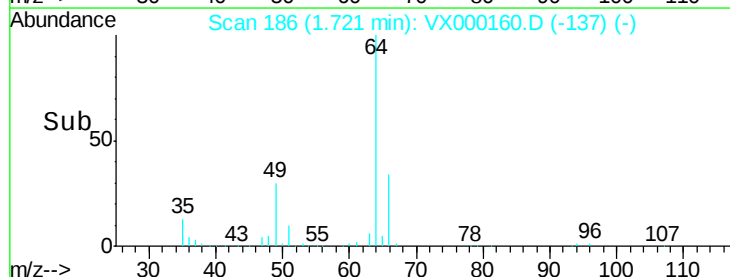
20000

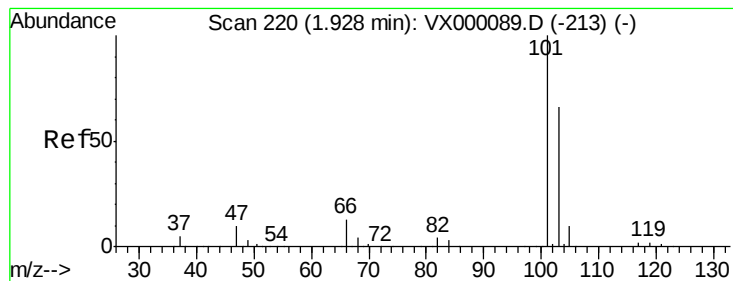
10000

0

Time-->

1.65 1.70 1.75 1.80



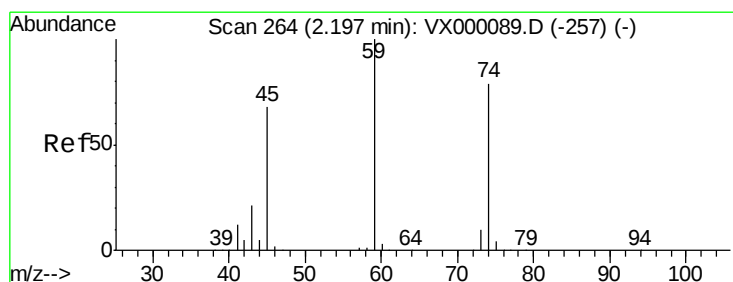
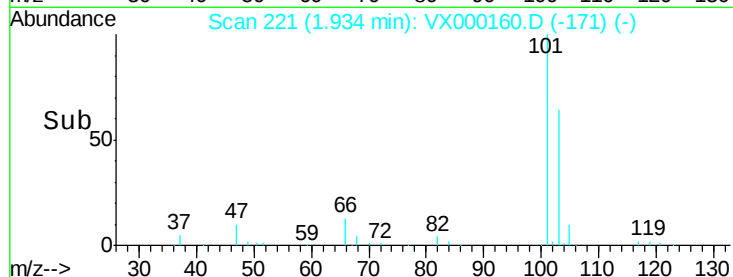
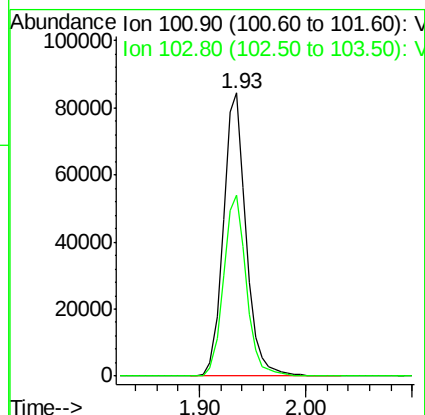
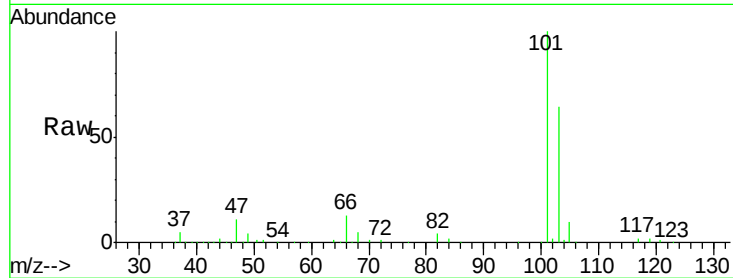


#7

Trichlorofluoromethane
Concen: 45.59 ug/l
RT: 1.93 min Scan# 221
Delta R.T. 0.01 min
Lab File: VX000160.D
Acq: 28 Feb 2018 11:17

Instrument :
MSVOA_X
ClientSampled :

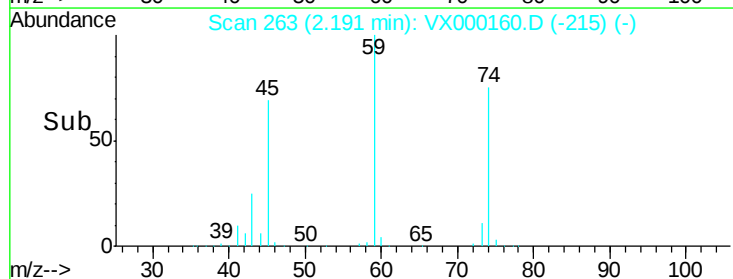
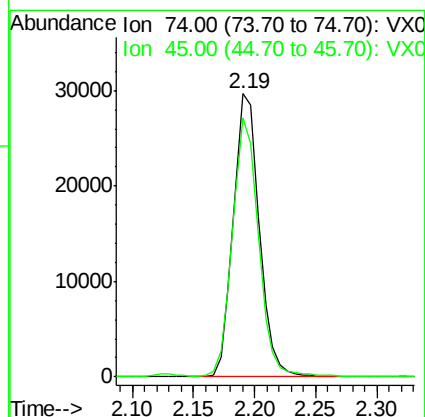
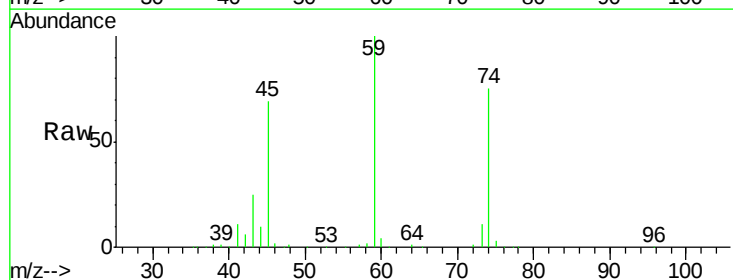
Tgt Ion: 101 Resp: 125008
Ion Ratio Lower Upper
101 100
103 63.8 52.7 79.1

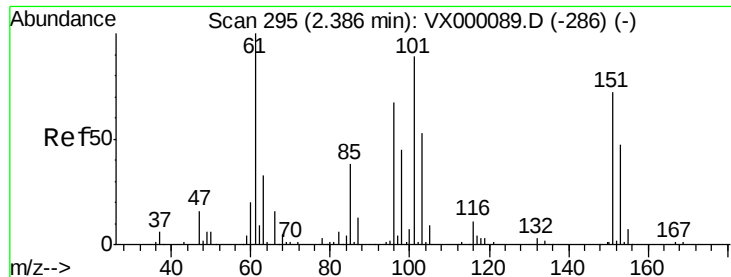


#8

Diethyl Ether
Concen: 46.06 ug/l
RT: 2.19 min Scan# 263
Delta R.T. -0.01 min
Lab File: VX000160.D
Acq: 28 Feb 2018 11:17

Tgt Ion: 74 Resp: 43581
Ion Ratio Lower Upper
74 100
45 92.4 44.7 134.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.66 ug/l

RT: 2.39 min Scan# 296

Delta R.T. 0.01 min

Lab File: VX000160.D

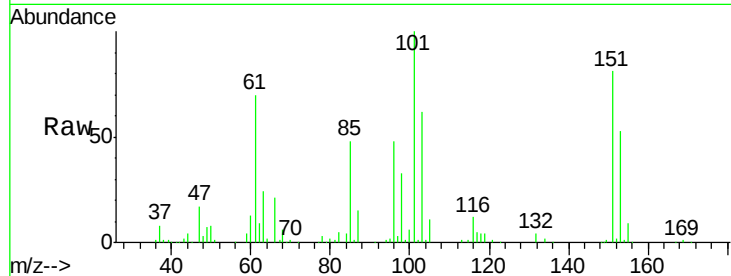
Acq: 28 Feb 2018 11:17

Instrument :

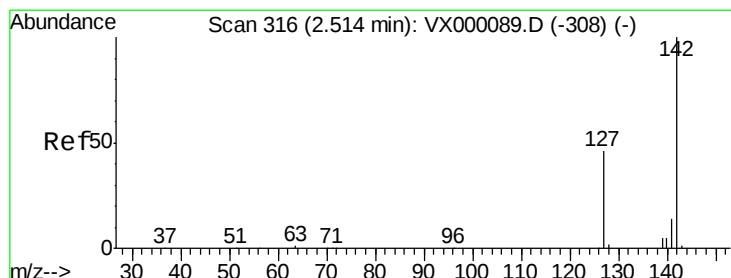
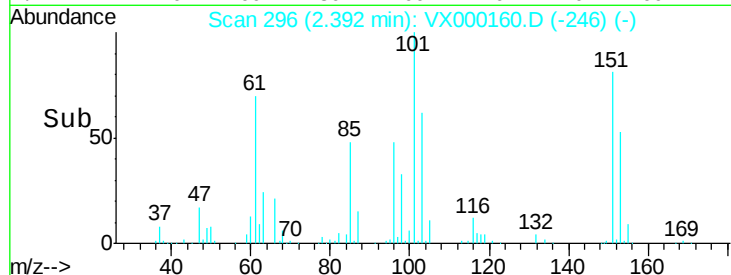
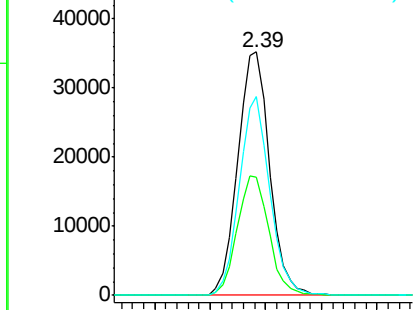
MSVOA_X

ClientSampleId :

Tgt Ion:	101	Resp:	69965
Ion	Ratio	Lower	Upper
101	100		
85	48.8	36.7	55.1
151	78.0	65.8	98.6



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: 33.04 ug/l

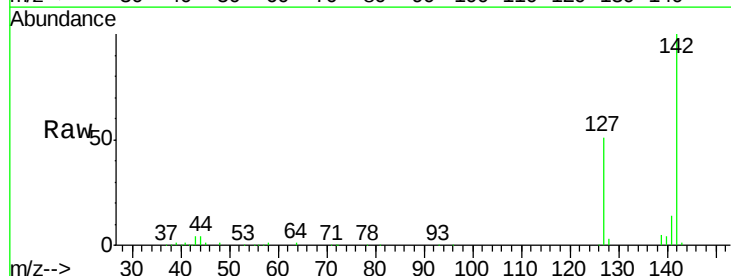
RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

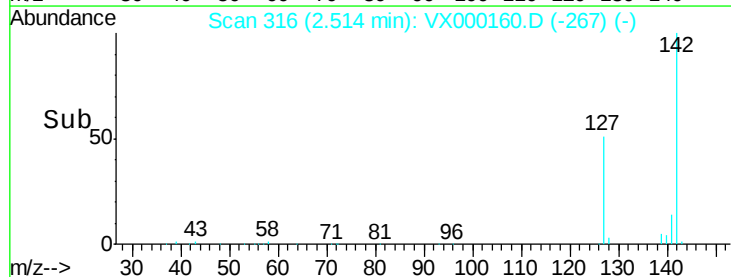
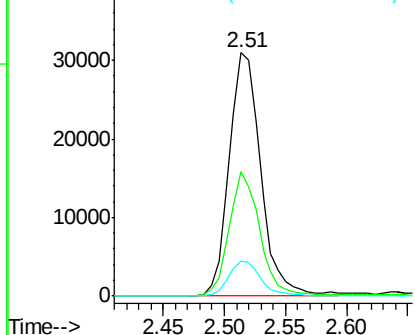
Lab File: VX000160.D

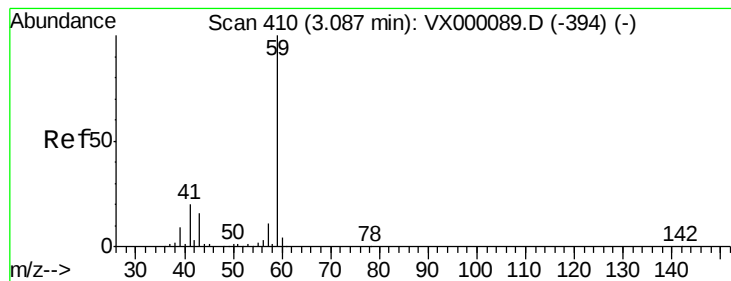
Acq: 28 Feb 2018 11:17

Tgt Ion:	142	Resp:	55462
Ion	Ratio	Lower	Upper
142	100		
127	49.4	36.8	55.2
141	14.8	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



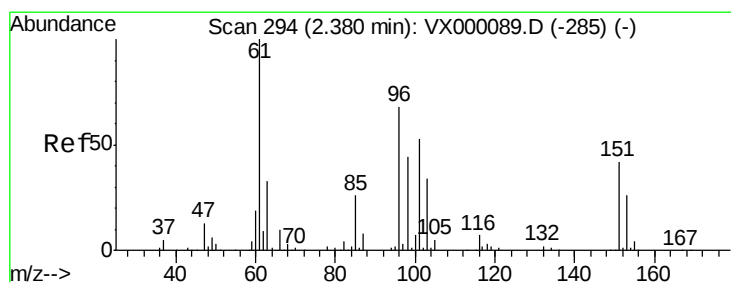
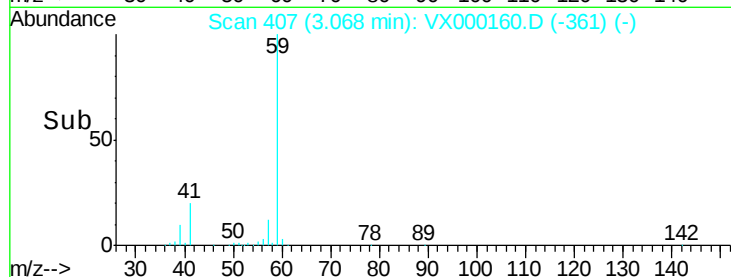
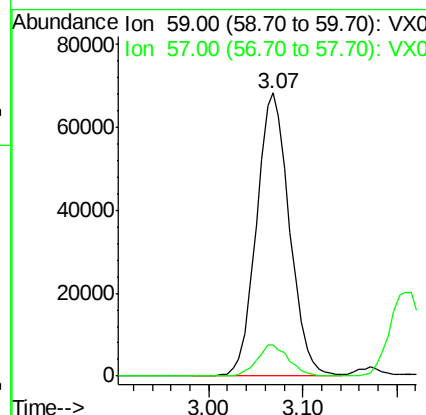
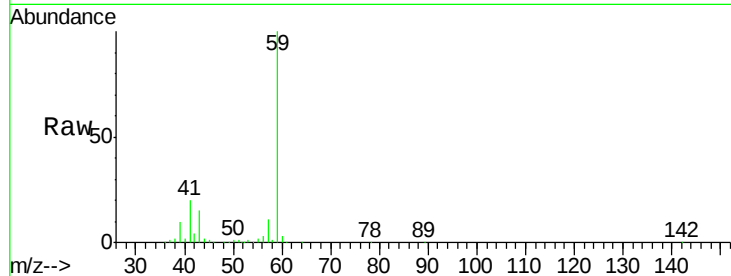


#11

Tert butyl alcohol
 Concen: 256.11 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.02 min
 Lab File: VX000160.D
 Acq: 28 Feb 2018 11:17

Instrument :
 MSVOA_X
 ClientSampleId :

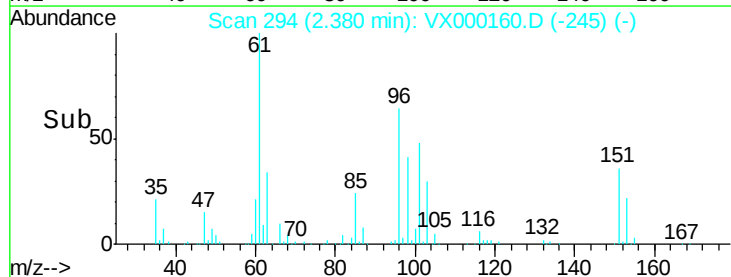
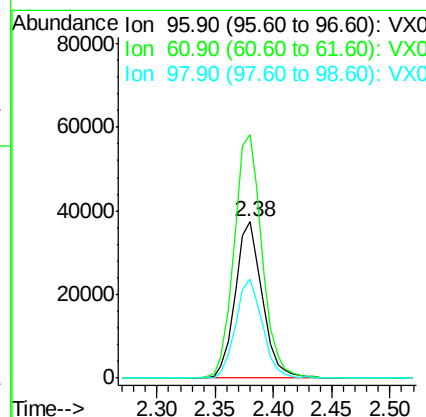
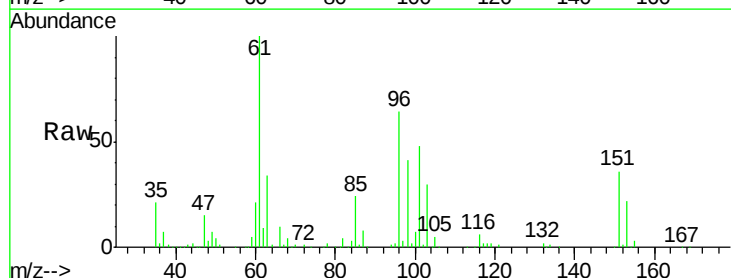
Tgt Ion: 59 Resp: 167981
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.3 12.5

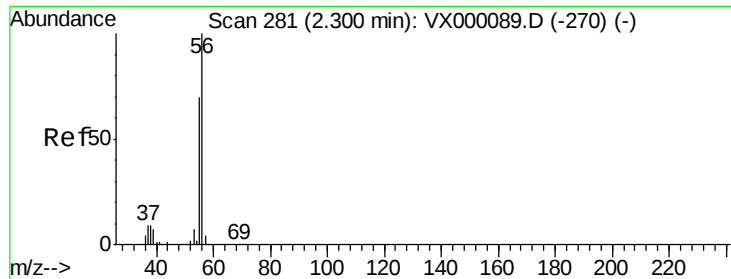


#12

1,1-Dichloroethene
 Concen: 42.48 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. -0.00 min
 Lab File: VX000160.D
 Acq: 28 Feb 2018 11:17

Tgt Ion: 96 Resp: 60632
 Ion Ratio Lower Upper
 96 100
 61 155.7 117.7 176.5
 98 63.5 51.3 76.9





#13

Acrolein

Concen: 43.75 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX000160.D

Acq: 28 Feb 2018 11:17

Instrument :

MSVOA_X

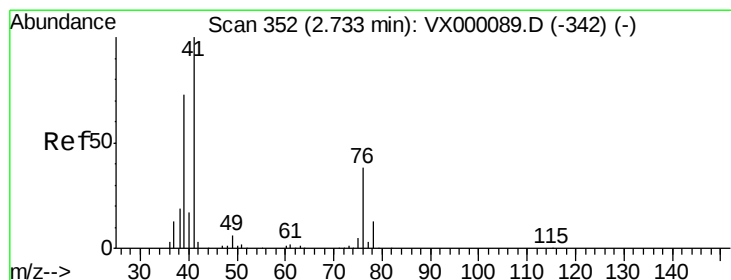
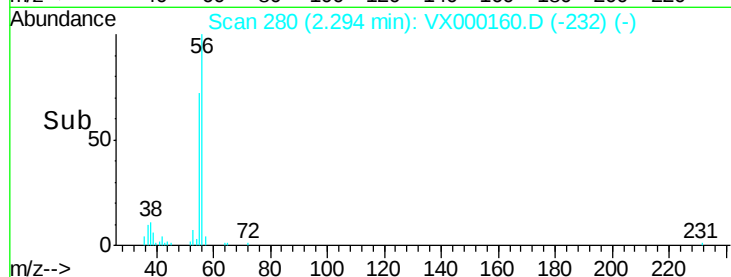
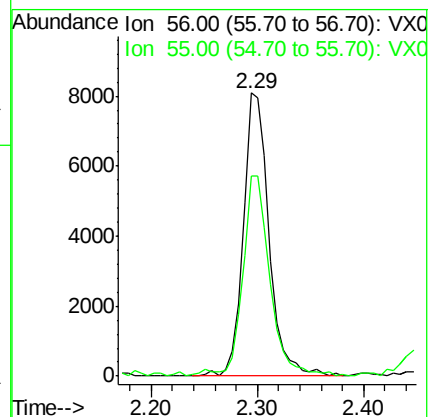
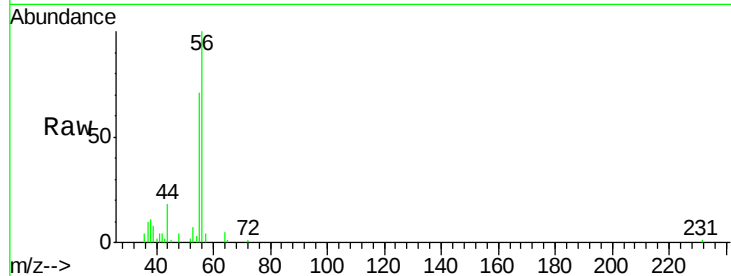
ClientSampleId :

Tgt Ion: 56 Resp: 13706

Ion Ratio Lower Upper

56 100

55 74.2 56.2 84.4



#14

Allyl chloride

Concen: 48.07 ug/l

RT: 2.73 min Scan# 352

Delta R.T. -0.00 min

Lab File: VX000160.D

Acq: 28 Feb 2018 11:17

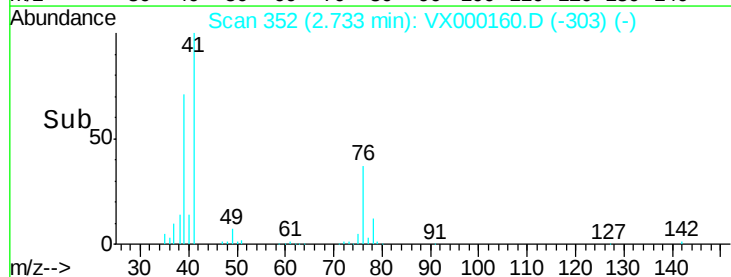
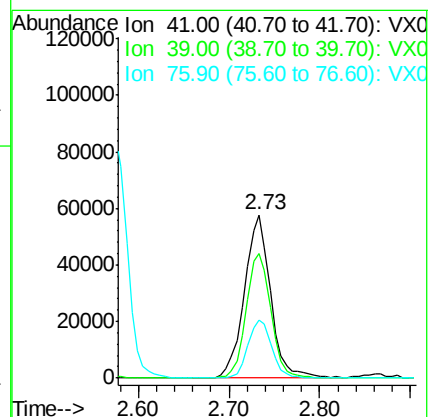
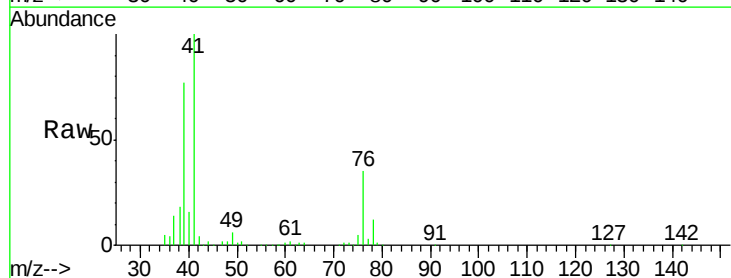
Tgt Ion: 41 Resp: 114856

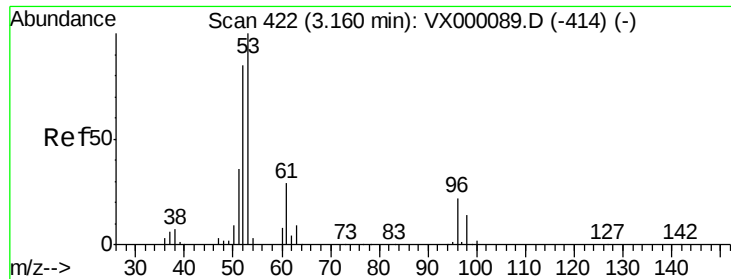
Ion Ratio Lower Upper

41 100

39 71.6 55.1 82.7

76 32.6 28.5 42.7





#15

Acrylonitrile

Concen: 244.90 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.01 min

Lab File: VX000160.D

Acq: 28 Feb 2018 11:17

Instrument :

MSVOA_X

ClientSampleId :

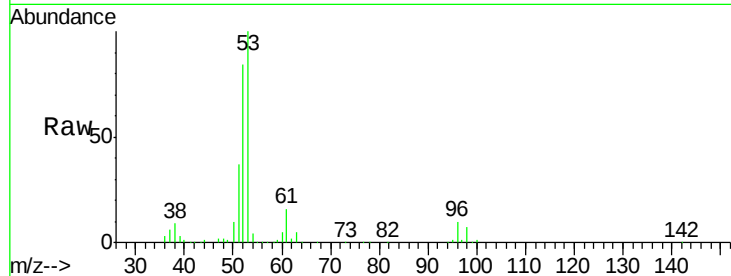
Tgt Ion: 53 Resp: 274314

Ion Ratio Lower Upper

53 100

52 84.0 66.5 99.7

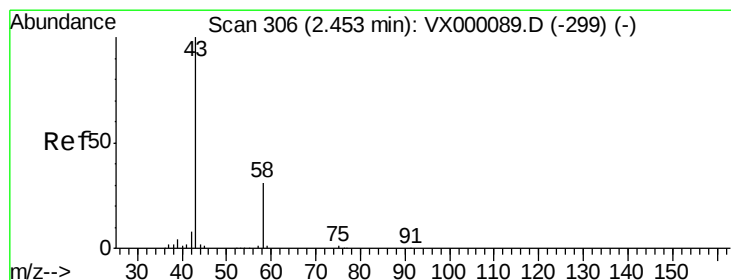
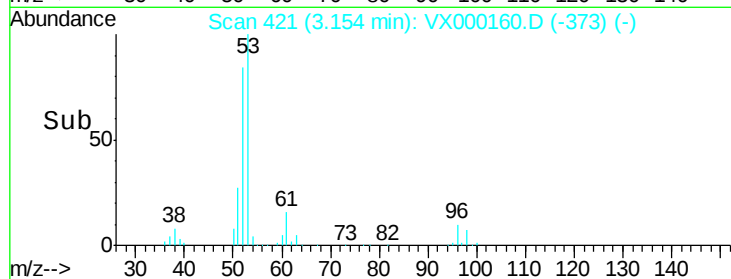
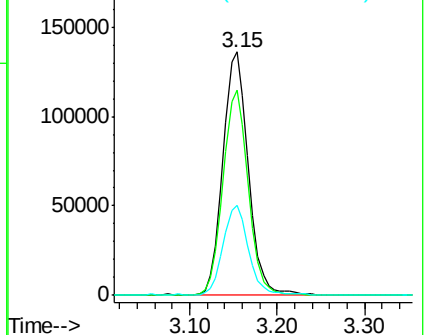
51 37.2 29.0 43.6



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: 355.42 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000160.D

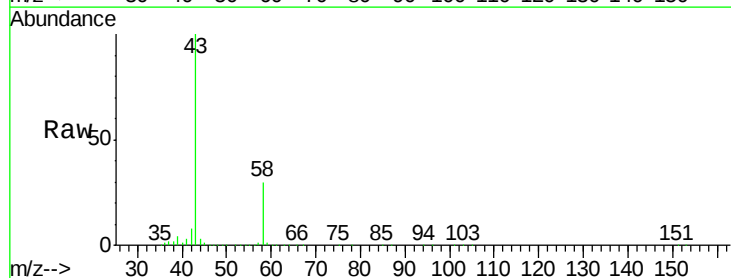
Acq: 28 Feb 2018 11:17

Tgt Ion: 43 Resp: 392321

Ion Ratio Lower Upper

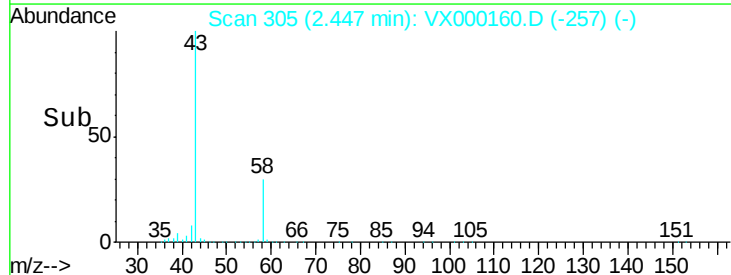
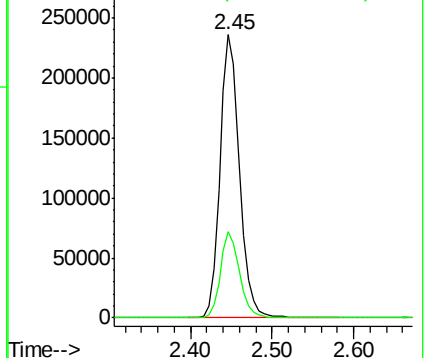
43 100

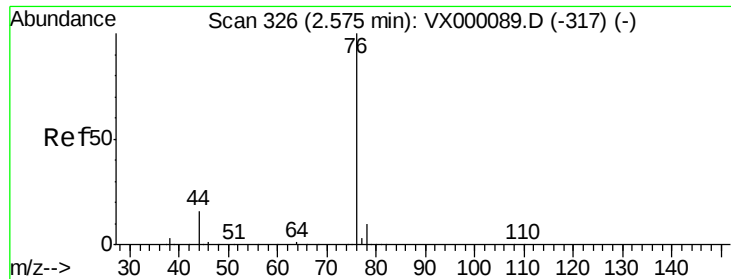
58 30.3 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

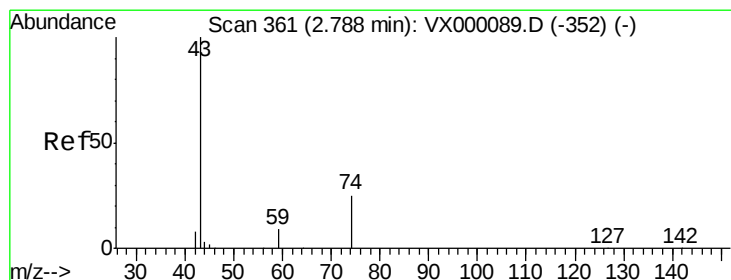
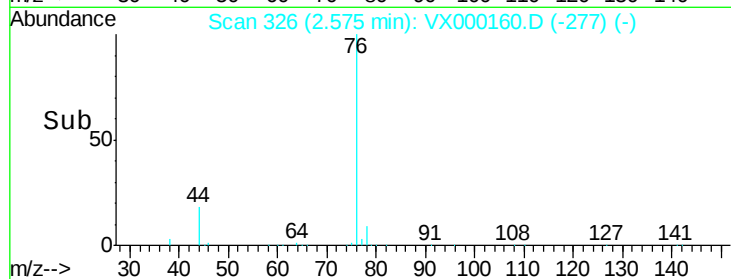
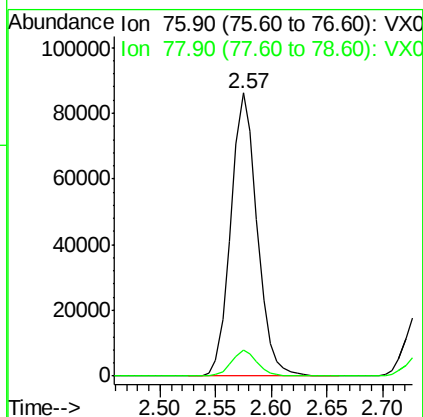
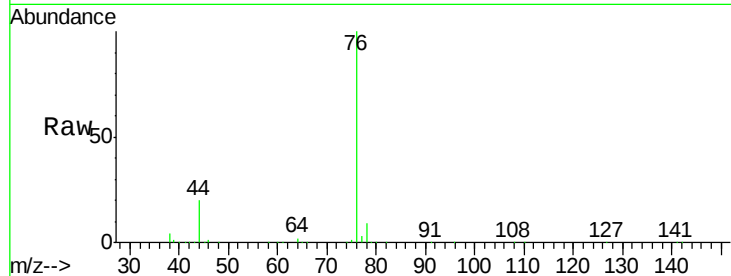




#17
Carbon Disulfide
Concen: 33.69 ug/l
RT: 2.57 min Scan# 326
Delta R.T. -0.00 min
Lab File: VX000160.D
Acq: 28 Feb 2018 11:17

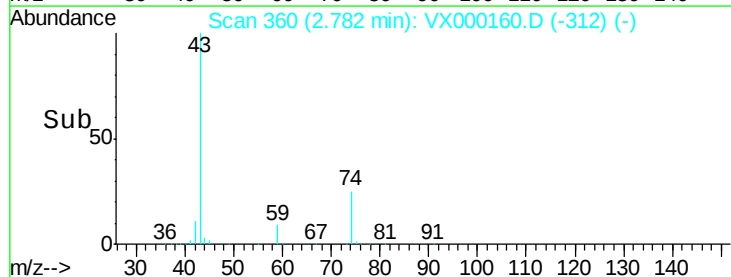
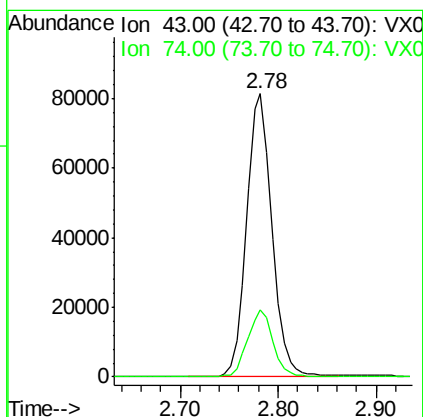
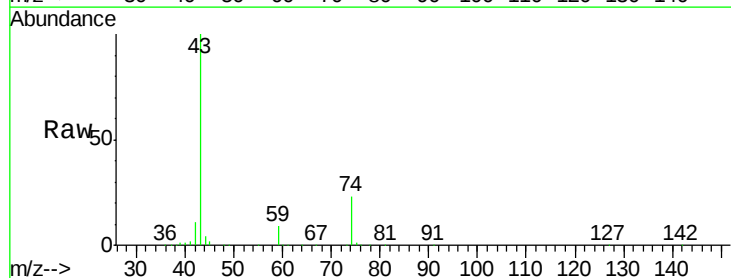
Instrument :
MSVOA_X
ClientSampleId :

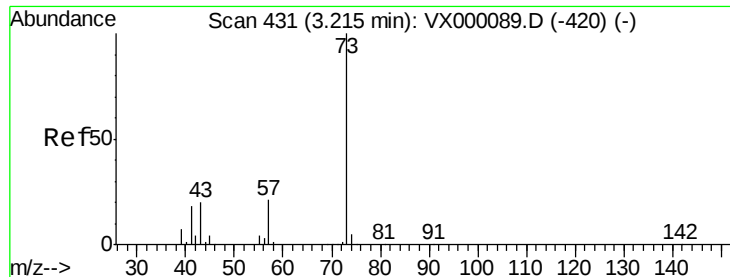
Tgt Ion: 76 Resp: 141582
Ion Ratio Lower Upper
76 100
78 9.1 7.8 11.8



#18
Methyl Acetate
Concen: 56.28 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.01 min
Lab File: VX000160.D
Acq: 28 Feb 2018 11:17

Tgt Ion: 43 Resp: 145675
Ion Ratio Lower Upper
43 100
74 23.9 20.2 30.4

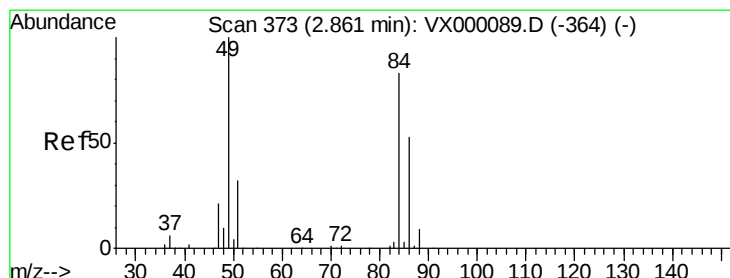
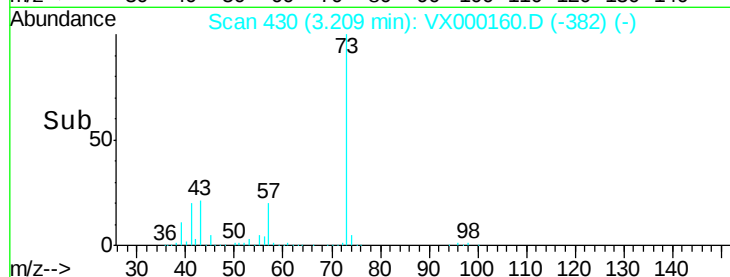
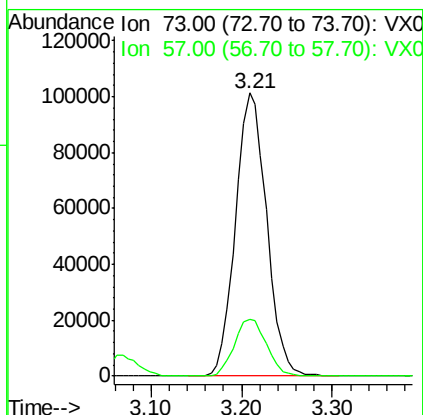
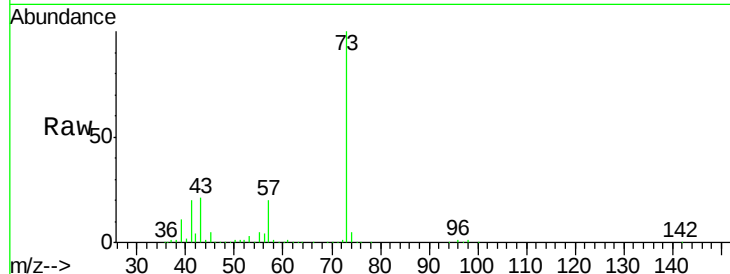




#19
Methyl tert-butyl Ether
Concen: 49.34 ug/l
RT: 3.21 min Scan# 430
Delta R.T. -0.01 min
Lab File: VX000160.D
Acq: 28 Feb 2018 11:17

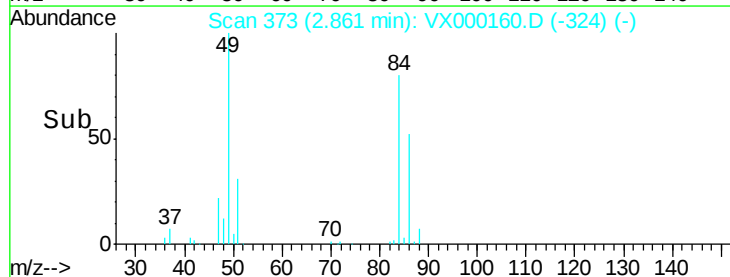
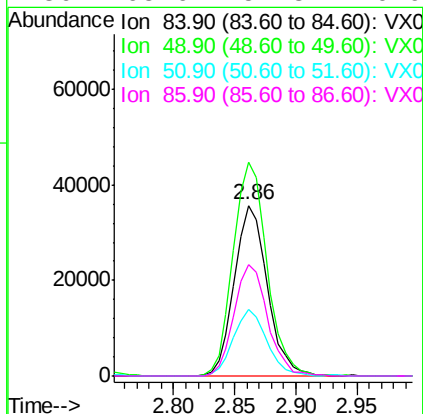
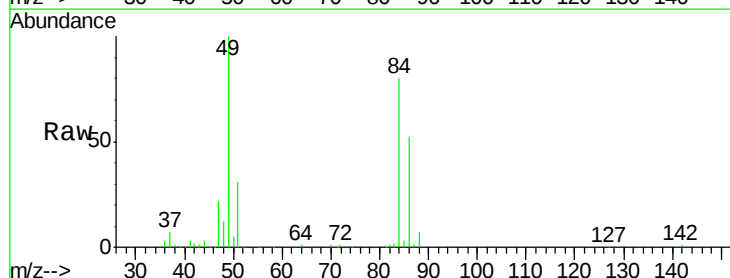
Instrument :
MSVOA_X
ClientSampled :

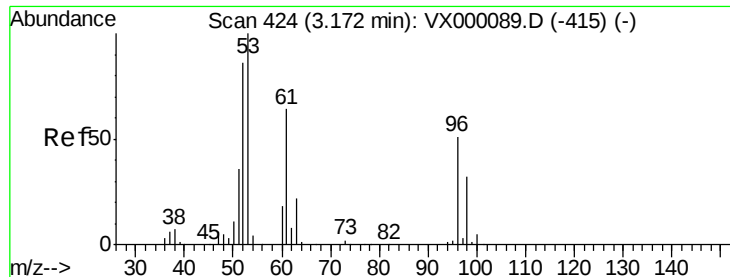
Tgt Ion: 73 Resp: 241729
Ion Ratio Lower Upper
73 100
57 19.9 16.4 24.6



#20
Methylene Chloride
Concen: 47.58 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX000160.D
Acq: 28 Feb 2018 11:17

Tgt Ion: 84 Resp: 66951
Ion Ratio Lower Upper
84 100
49 125.1 96.1 144.1
51 38.7 30.5 45.7
86 65.6 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 42.74 ug/l

RT: 3.17 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX000160.D

Acq: 28 Feb 2018 11:17

Instrument :

MSVOA_X

ClientSampleId :

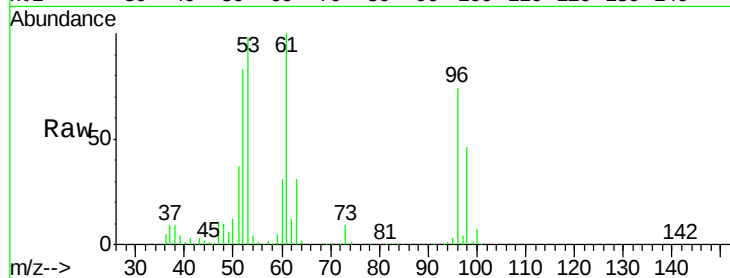
Tgt Ion: 96 Resp: 66140

Ion Ratio Lower Upper

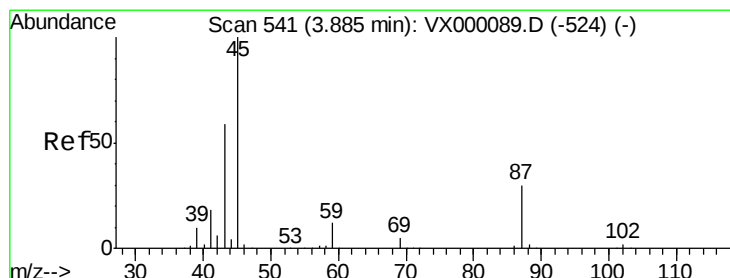
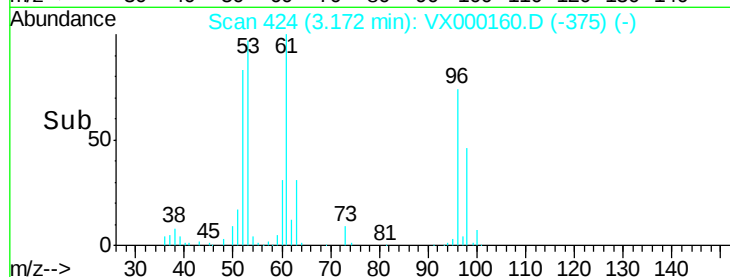
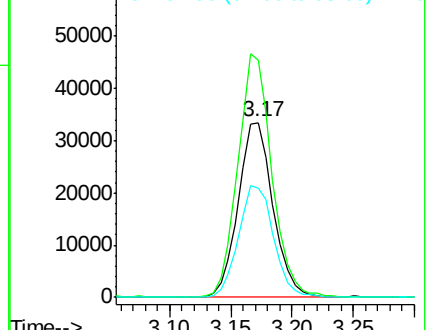
96 100

61 135.4 100.3 150.5

98 62.3 50.6 75.8



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 54.80 ug/l

RT: 3.88 min Scan# 540

Delta R.T. -0.01 min

Lab File: VX000160.D

Acq: 28 Feb 2018 11:17

Tgt Ion: 45 Resp: 228775

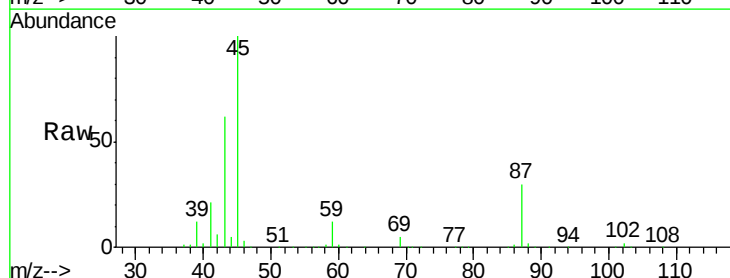
Ion Ratio Lower Upper

45 100

43 62.3 47.4 71.2

87 30.0 24.2 36.2

59 12.0 9.2 13.8



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

