

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX101520\
 Data File : VX018935.D
 Acq On : 15 Oct 2020 14:25
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Quant Time: Oct 15 14:46:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X101520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 14:34:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	54139	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	295531	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	262059	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	102300	24.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	83.17%
60) 4-Bromofluorobenzene	11.12	95	119744	26.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.70%
63) Toluene-d8	8.70	98	346097	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.18	85	124443	44.507	ug/l 100
3) Chloromethane	1.31	50	144052	47.191	ug/l 98
4) Vinyl Chloride	1.39	62	177714	54.458	ug/l 98
5) Bromomethane	1.62	94	119441	55.066	ug/l 100
6) Chloroethane	1.71	64	120025	59.509	ug/l 97
7) Trichlorofluoromethane	1.92	101	276043	50.657	ug/l 100
8) Diethyl Ether	2.17	74	108496	60.582	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	153151	54.146	ug/l 98
10) 1,1-Dichloroethene	2.36	96	158591	56.588	ug/l 97
11) Methyl Iodide	2.49	142	196681	62.705	ug/l 97
12) Methyl Acetate	2.75	43	159157	45.453	ug/l 96
13) Acrolein	2.27	56	144621	424.047	ug/l 100
14) Acrylonitrile	3.12	53	372065	233.660	ug/l 98
15) Acetone	2.42	58	131430	286.090	ug/l 99
16) Carbon Disulfide	2.55	76	394582	50.063	ug/l 99
17) Allyl chloride	2.71	41	207715	43.865	ug/l 98
18) Methylene Chloride	2.83	84	158872	49.877	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	160352	52.434	ug/l 99
20) Diisopropyl ether	3.82	45	385265	41.748	ug/l 93
21) 1,1-Dichloroethane	3.67	63	265043	48.553	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	184376	54.562	ug/l 98
23) tert-Butyl Alcohol	3.01	59	206509	281.595	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	444146	46.526	ug/l 99
25) Chloroform	5.18	83	282096	48.450	ug/l 95
26) Cyclohexane	5.55	56	210780	47.474	ug/l # 98
29) 1,1-Dichloropropene	5.77	75	214609	48.030	ug/l 99
30) 2-Butanone	4.64	43	542694	226.438	ug/l 99
31) 2,2-Dichloropropane	4.55	77	252908	47.123	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	262345	45.669	ug/l 98
33) Carbon Tetrachloride	5.76	117	238687	44.784	ug/l 97
34) Benzene	6.11	78	641142	50.198	ug/l 99
35) Methacrylonitrile	5.00	41	110925	43.819	ug/l 97
36) 1,2-Dichloroethane	6.16	62	212372	41.577	ug/l 99
37) Trichloroethene	7.19	130	189543	50.867	ug/l 100
38) Methylcyclohexane	7.44	83	245631	50.530	ug/l 98
39) 1,2-Dichloropropane	7.49	63	157556	46.851	ug/l 96
40) Dibromomethane	7.63	93	116082	47.568	ug/l 98

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Quant Time: Oct 15 14:46:49 2020
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 14:34:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	232540	46.001	ug/l	97
42) Vinyl Acetate	3.79	43	1921833	216.308	ug/l	100
43) Ethyl Acetate	4.79	43	214668	44.973	ug/l	98
44) Isopropyl Acetate	6.41	43	359179	46.193	ug/l #	100
45) 1,4-Dioxane	7.71	88	75779	1102.539	ug/l	98
46) Methyl methacrylate	7.74	41	168467	44.101	ug/l	98
47) n-amyl Acetate	10.88	43	293033	42.671	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	270008	48.955	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	283767	49.036	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	165191	48.037	ug/l	96
51) Ethyl methacrylate	9.16	69	262623	51.605	ug/l	99
52) 1,3-Dichloropropane	9.35	76	274672	48.169	ug/l	100
53) Dibromochloromethane	9.57	129	199147	46.542	ug/l	99
54) 1,2-Dibromoethane	9.65	107	184088	48.593	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	681092	257.180	ug/l	99
56) Bromoform	10.84	173	152526	46.821	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	1075167	244.887	ug/l	100
59) 2-Hexanone	9.47	43	814346	243.128	ug/l	100
61) Tetrachloroethene	9.32	164	166136	51.511	ug/l	96
62) Toluene	8.76	91	713378	53.963	ug/l	100
64) Chlorobenzene	10.12	112	450805	52.964	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.20	131	175369	51.182	ug/l	99
66) Ethyl Benzene	10.23	91	783156	53.130	ug/l	99
67) m/p-Xylenes	10.34	106	606726	107.544	ug/l	99
68) o-Xylene	10.68	106	287985	53.676	ug/l	100
69) Styrene	10.70	104	494510	53.220	ug/l	99
70) Isopropylbenzene	11.00	105	763662	51.745	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	237567	50.194	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	293914	64.793	ug/l	86
73) Bromobenzene	11.24	156	197860	49.597	ug/l	98
74) n-propylbenzene	11.34	91	873312	50.543	ug/l	100
75) 2-Chlorotoluene	11.40	91	500609	48.302	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	633724	49.635	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	95924	52.758	ug/l	98
78) 4-Chlorotoluene	11.49	91	582981	47.277	ug/l	99
79) tert-butylbenzene	11.76	119	645352	52.009	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	634398	50.326	ug/l	100
81) sec-Butylbenzene	11.93	105	740056	51.150	ug/l	100
82) p-Isopropyltoluene	12.05	119	688284	50.985	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	354728	50.109	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	351603	49.655	ug/l	99
85) n-Butylbenzene	12.37	91	608360	51.062	ug/l	100
86) Hexachloroethane	12.58	117	114961	44.387	ug/l	95
87) 1,2-Dichlorobenzene	12.38	146	340133	50.899	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	58221	48.051	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	241045	52.538	ug/l	98
90) Hexachlorobutadiene	13.76	225	97751	51.004	ug/l	94
91) Naphthalene	13.82	128	815892	56.281	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	245812	54.206	ug/l	100

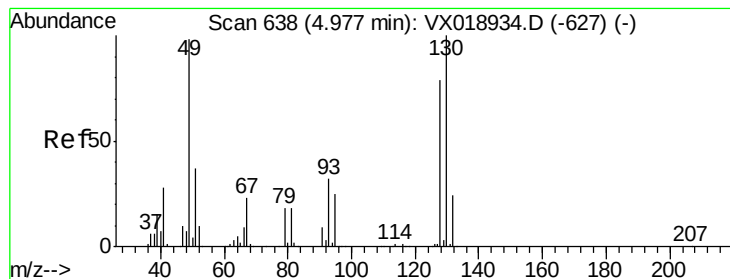
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 15 14:34:11 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX018935.D

Acq: 15 Oct 2020 14:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC050

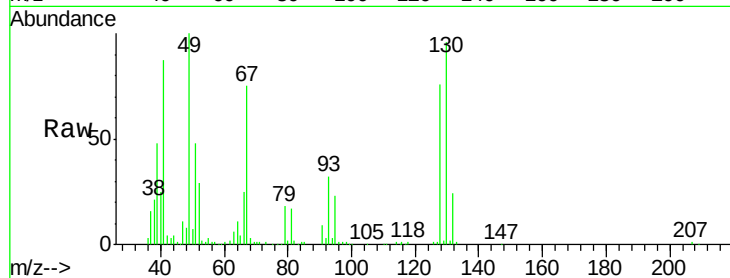
Tgt Ion:128 Resp: 54139

Ion Ratio Lower Upper

128 100

49 133.6 0.0 330.5

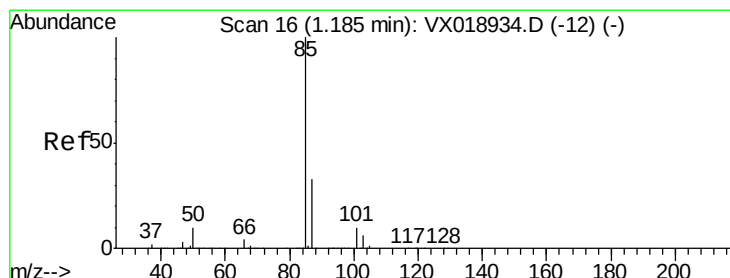
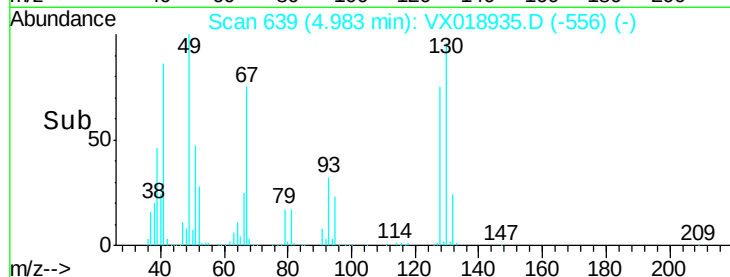
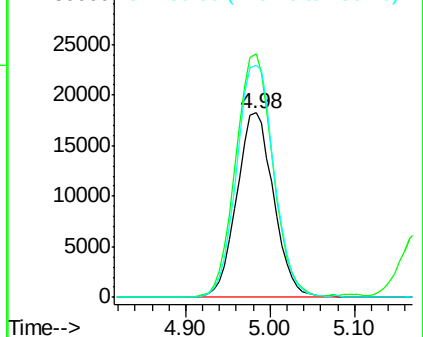
130 128.1 0.0 323.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 44.507 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018935.D

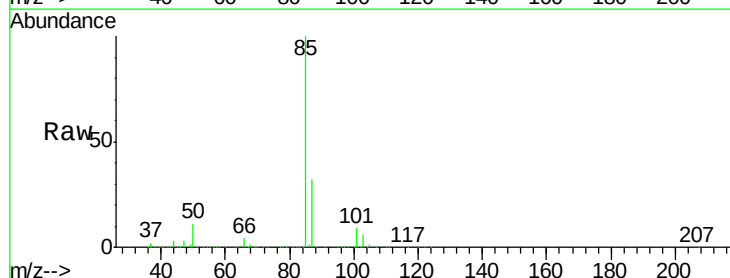
Acq: 15 Oct 2020 14:25

Tgt Ion: 85 Resp: 124443

Ion Ratio Lower Upper

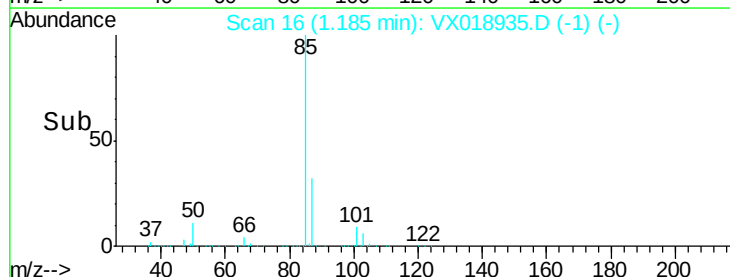
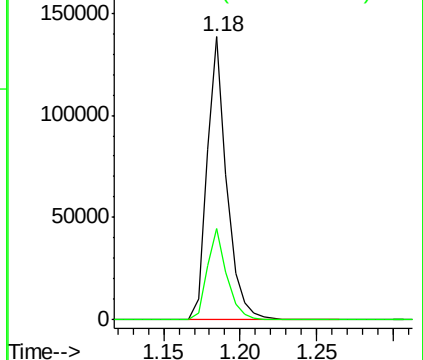
85 100

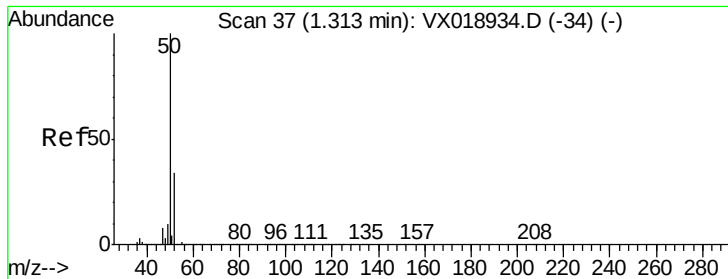
87 32.3 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 47.191 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018935.D

Acq: 15 Oct 2020 14:25

Instrument :

MSVOA_X

ClientSampleId :

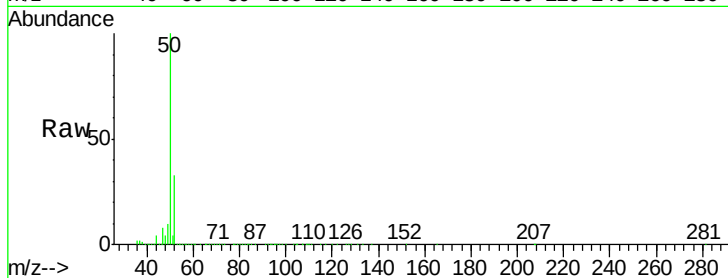
VSTDIC050

Tgt Ion: 50 Resp: 144052

Ion Ratio Lower Upper

50 100

52 32.7 27.0 40.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

1.31

150000

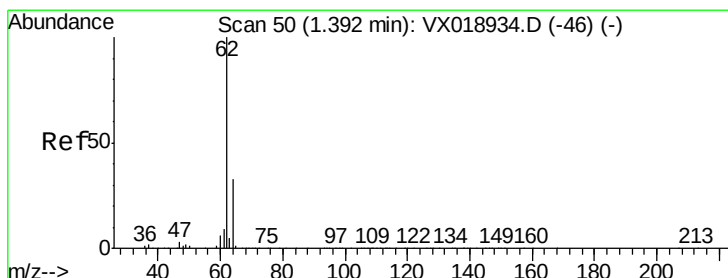
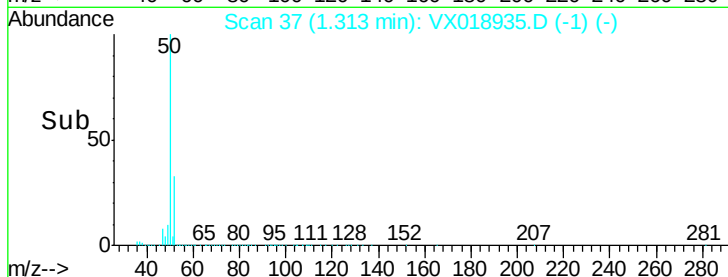
100000

50000

0

1.30 1.35

Time-->



#4

Vinyl Chloride

Concen: 54.458 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX018935.D

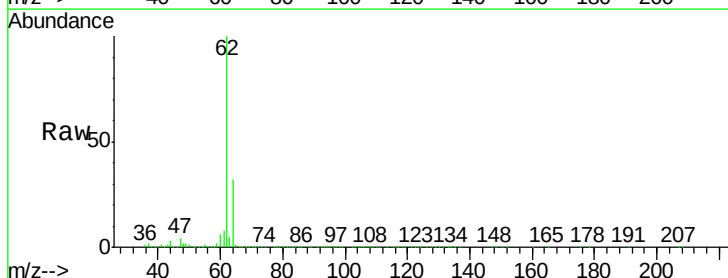
Acq: 15 Oct 2020 14:25

Tgt Ion: 62 Resp: 177714

Ion Ratio Lower Upper

62 100

64 31.5 26.1 39.1



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0

1.39

200000

150000

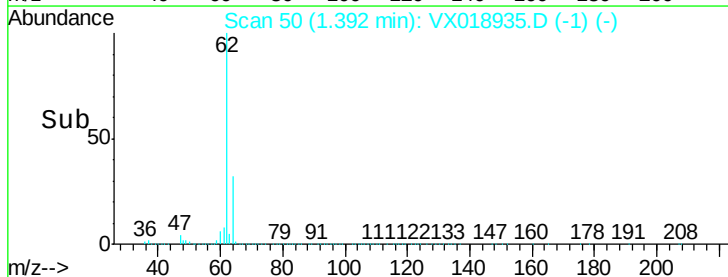
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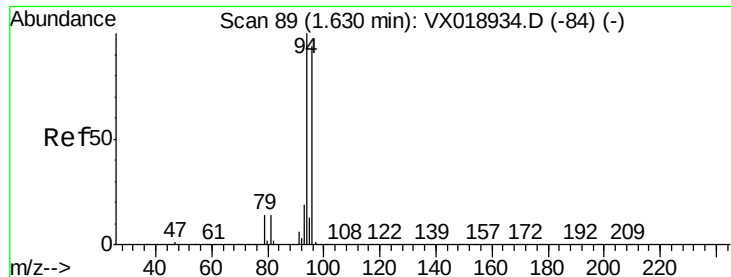
50000

0

1.35 1.40 1.45

Time-->





#5

Bromomethane

Concen: 55.066 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.01 min

Lab File: VX018935.D

Acq: 15 Oct 2020 14:25

Instrument :

MSVOA_X

ClientSampleId :

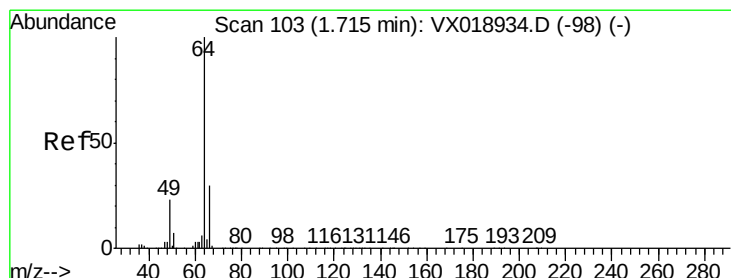
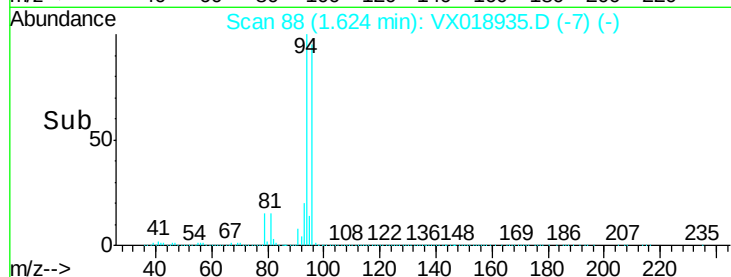
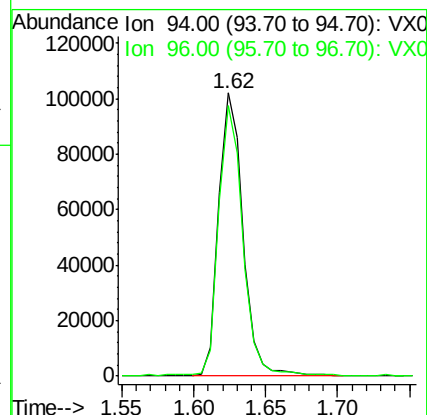
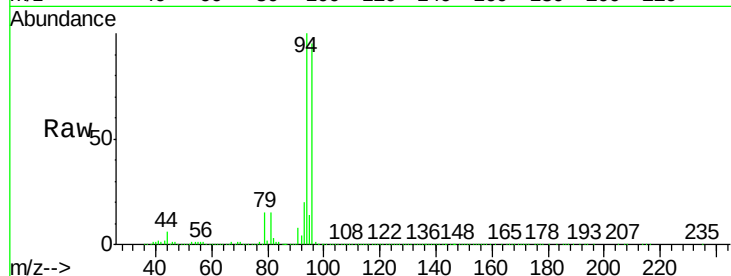
VSTDIC050

Tgt Ion: 94 Resp: 119441

Ion Ratio Lower Upper

94 100

96 95.3 75.9 113.9



#6

Chloroethane

Concen: 59.509 ug/l

RT: 1.71 min Scan# 102

Delta R.T. -0.01 min

Lab File: VX018935.D

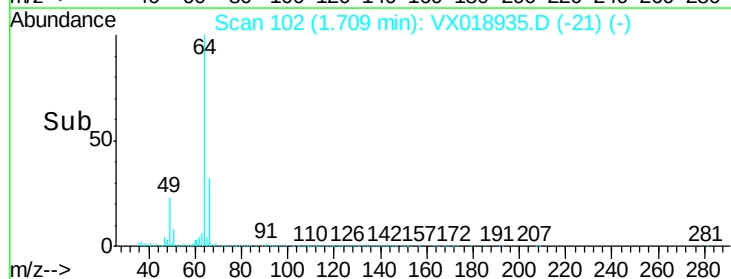
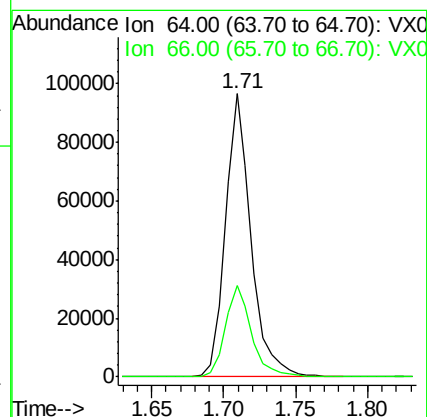
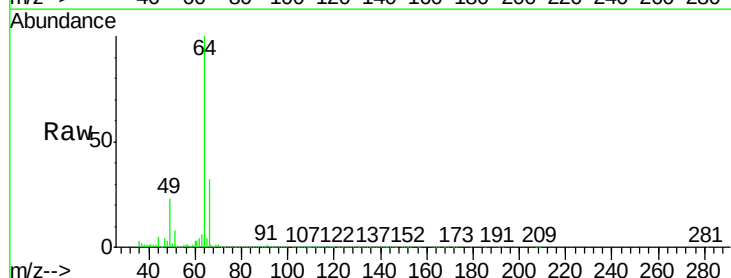
Acq: 15 Oct 2020 14:25

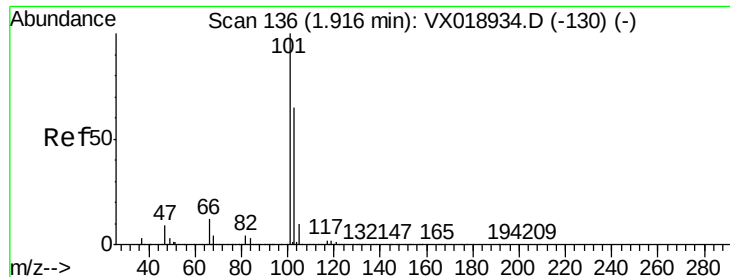
Tgt Ion: 64 Resp: 120025

Ion Ratio Lower Upper

64 100

66 32.1 24.5 36.7



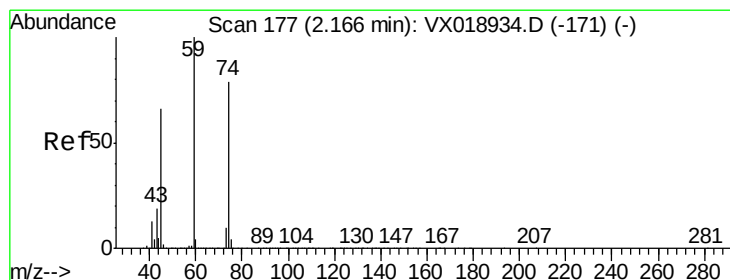
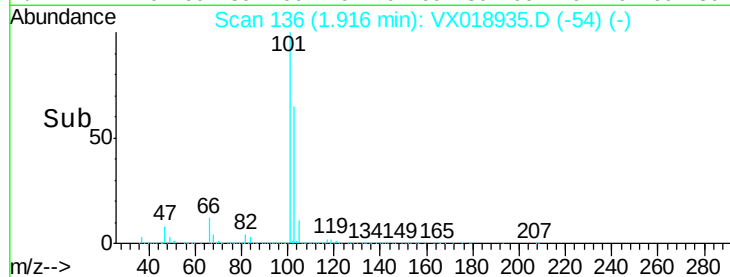
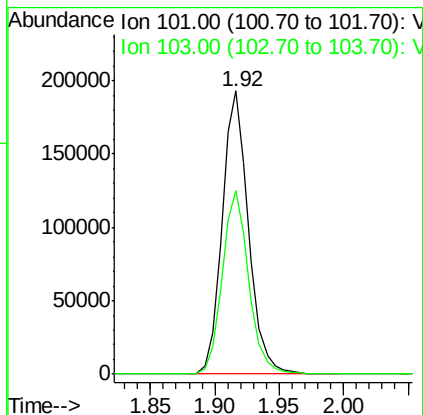
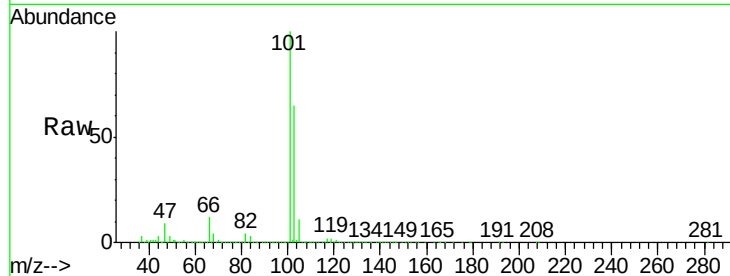


#7

Trichlorofluoromethane
 Concen: 50.657 ug/l
 RT: 1.92 min Scan# 136
 Delta R.T. 0.00 min
 Lab File: VX018935.D
 Acq: 15 Oct 2020 14:25

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Tgt Ion:101 Resp: 276043
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.8 77.6



#8

Diethyl Ether
 Concen: 60.582 ug/l
 RT: 2.17 min Scan# 177
 Delta R.T. 0.00 min
 Lab File: VX018935.D
 Acq: 15 Oct 2020 14:25

Tgt Ion: 74 Resp: 108496
 Ion Ratio Lower Upper
 74 100
 45 82.7 16.6 149.2

