

Data File : VW008519.D
Acq On : 06 Feb 2019 11:27
Operator : SY/VA
Sample : VW0206SBS01
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0206SBS01

Quant Time: Feb 07 01:45:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	626570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	953254	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	831595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	429760	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	298523	48.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.00%	
35) Dibromofluoromethane	7.88	113	296316	53.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.32%	
50) Toluene-d8	10.32	98	1126959	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
62) 4-Bromofluorobenzene	12.62	95	413282	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	49572	16.053	ug/l	94
3) Chloromethane	2.21	50	83297	16.286	ug/l	99
4) Vinyl Chloride	2.36	62	117473	18.043	ug/l	99
5) Bromomethane	2.78	94	99469	23.686	ug/l	99
6) Chloroethane	2.93	64	87153	21.888	ug/l	99
7) Trichlorofluoromethane	3.25	101	85847	18.452	ug/l	97
8) Diethyl Ether	3.68	74	57388	18.366	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.05	101	106653	18.820	ug/l	98
10) Methyl Iodide	4.26	142	170029	18.995	ug/l	99
11) Tert butyl alcohol	5.18	59	17883	36.085	ug/l	96
12) 1,1-Dichloroethene	4.03	96	102804	17.925	ug/l	96
13) Acrolein	3.89	56	29155	69.747	ug/l	98
14) Allyl chloride	4.65	41	182261	16.736	ug/l	98
15) Acrylonitrile	5.37	53	117211	86.870	ug/l	97
16) Acetone	4.12	43	112087	81.087	ug/l	91
17) Carbon Disulfide	4.37	76	312470	17.059	ug/l	98
18) Methyl Acetate	4.67	43	59381	16.106	ug/l	95
19) Methyl tert-butyl Ether	5.42	73	173618	18.297	ug/l	98
20) Methylene Chloride	4.91	84	122328	19.200	ug/l	94
21) trans-1,2-Dichloroethene	5.42	96	119094	18.471	ug/l	92
22) Diisopropyl ether	6.31	45	355114	17.205	ug/l	95
23) Vinyl Acetate	6.25	43	1034997	84.923	ug/l	97
24) 1,1-Dichloroethane	6.20	63	209253	17.911	ug/l	98
25) 2-Butanone	7.17	43	162603	84.690	ug/l	98
26) 2,2-Dichloropropane	7.16	77	141096	17.867	ug/l	97
27) cis-1,2-Dichloroethene	7.16	96	130588	18.584	ug/l	97
28) Bromochloromethane	7.51	49	94234	17.561	ug/l	96
29) Tetrahydrofuran	7.53	42	101152	83.136	ug/l	98
30) Chloroform	7.67	83	211828	18.434	ug/l	98
31) Cyclohexane	7.95	56	205163	16.983	ug/l	96
32) 1,1,1-Trichloroethane	7.87	97	184487	18.587	ug/l	99
36) 1,1-Dichloropropene	8.08	75	171906	19.091	ug/l	98
37) Ethyl Acetate	7.25	43	70519	17.701	ug/l	98
38) Carbon Tetrachloride	8.06	117	177146	19.550	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	216131	18.271	ug/l	99
40) Benzene	8.32	78	471925	18.887	ug/l	96
41) Methacrylonitrile	7.48	41	42498	18.016	ug/l	99
42) 1,2-Dichloroethane	8.40	62	139260	19.232	ug/l	99
43) Isopropyl Acetate	8.42	43	143852	17.381	ug/l	97
44) Trichloroethene	9.09	130	133009	19.576	ug/l	100
45) 1,2-Dichloropropane	9.37	63	116832	18.753	ug/l	99
46) Dibromomethane	9.46	93	60522	18.887	ug/l	97
47) Bromodichloromethane	9.64	83	157234	18.551	ug/l	98
48) Methyl methacrylate	9.43	41	66951	16.544	ug/l	95
49) 1,4-Dioxane	9.46	88	17908	330.628	ug/l #	72
51) 4-Methyl-2-Pentanone	10.21	43	352285	86.156	ug/l	99
52) Toluene	10.38	92	308954	18.731	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	159956	17.736	ug/l	97
54) cis-1,3-Dichloropropene	10.07	75	186168	18.190	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	82840	18.638	ug/l	98
56) Ethyl methacrylate	10.65	69	106699	17.132	ug/l	96
57) 1,3-Dichloropropane	10.93	76	150207	18.864	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	286794	94.778	ug/l	97
59) 2-Hexanone	10.97	43	252887	87.607	ug/l	99
60) Dibromochloromethane	11.13	129	103893	18.189	ug/l	99
61) 1,2-Dibromoethane	11.23	107	80874	18.351	ug/l	99
64) Tetrachloroethene	10.86	164	112053	19.901	ug/l	92
65) Chlorobenzene	11.66	112	333442	19.642	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	116600	19.198	ug/l	97
67) Ethyl Benzene	11.73	91	590252	18.916	ug/l	98
68) m/p-Xylenes	11.84	106	458049	37.833	ug/l	97
69) o-Xylene	12.16	106	216933	18.858	ug/l	99
70) Styrene	12.18	104	347529	18.289	ug/l	97
71) Bromoform	12.35	173	62922	18.413	ug/l	99
73) Isopropylbenzene	12.46	105	601697	18.780	ug/l	99
74) N-amyl acetate	12.27	43	138587	16.790	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	95910	18.908	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	130148	34.832	ug/l #	1
77) Bromobenzene	12.75	156	136106	19.452	ug/l	94
78) n-propylbenzene	12.80	91	718234	18.664	ug/l	98
79) 2-Chlorotoluene	12.89	91	399052	18.377	ug/l	96
80) 1,3,5-Trimethylbenzene	12.94	105	497283	18.569	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	31191	16.487	ug/l	97
82) 4-Chlorotoluene	12.99	91	414013	17.908	ug/l	96
83) tert-Butylbenzene	13.21	119	433764	18.202	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	508166	18.669	ug/l	99
85) sec-Butylbenzene	13.38	105	631597	18.558	ug/l	99
86) p-Isopropyltoluene	13.50	119	565326	18.963	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	274228	19.406	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	271843	19.357	ug/l	99
89) n-Butylbenzene	13.83	91	535250	18.286	ug/l	99
90) Hexachloroethane	14.10	117	106334	18.239	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	242303	19.379	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	16824	17.480	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW020619\
Quantitation Report (Not Reviewed)

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QLast Update : Fri Jan 25 11:07:41 2019
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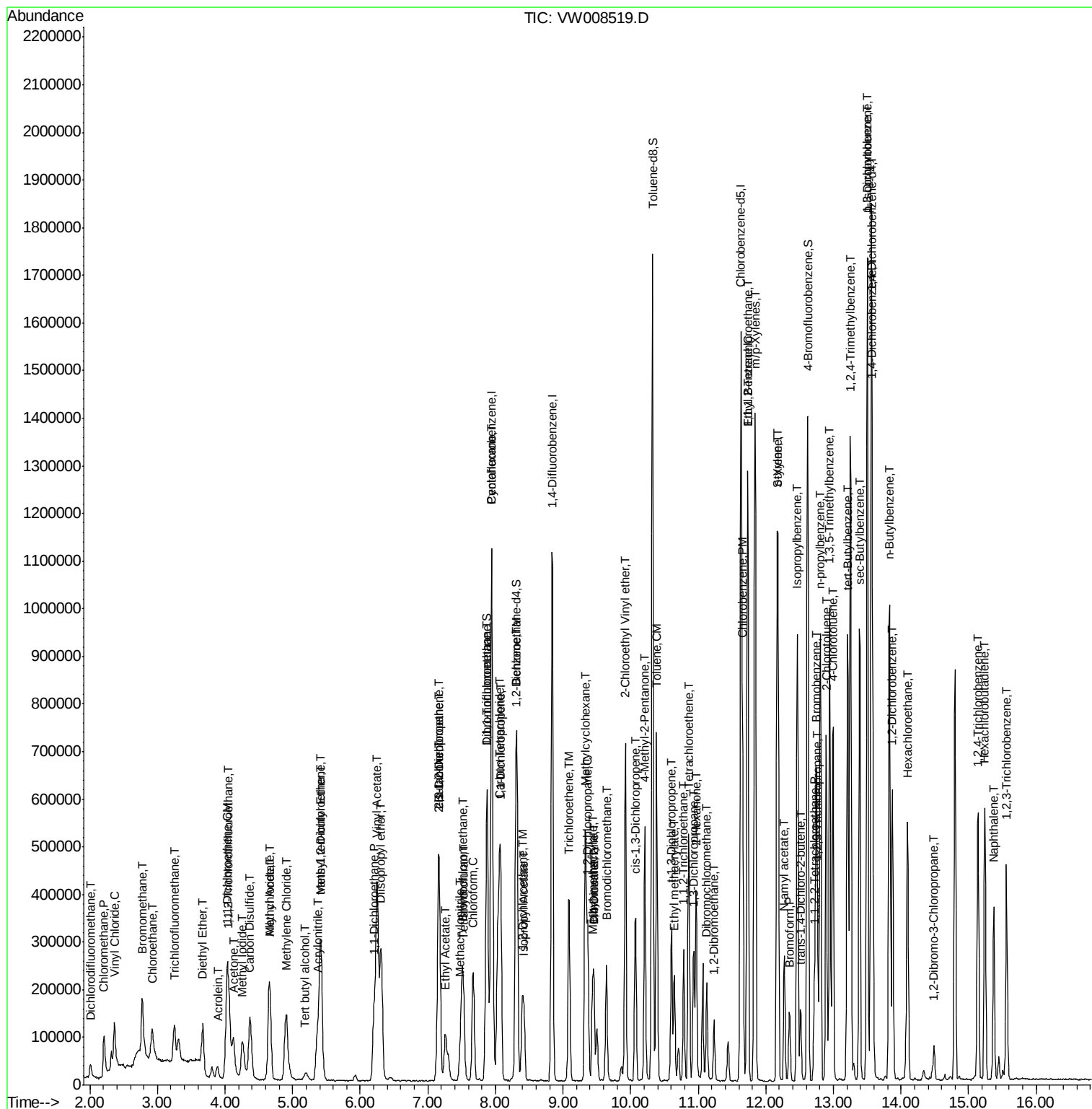
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	183560	20.572	ug/l	96
94) Hexachlorobutadiene	15.24	225	109071	20.283	ug/l	99
95) Naphthalene	15.37	128	302825	19.329	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	150619	19.900	ug/l	99

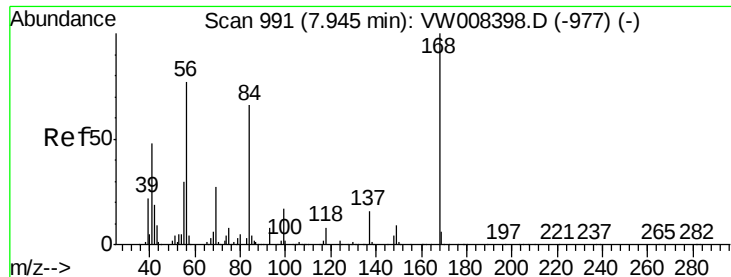
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008519.D

Acq: 06 Feb 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

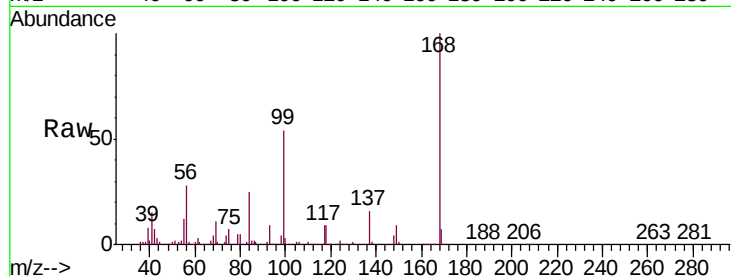
VW0206SBS01

Tgt Ion:168 Resp: 626570

Ion Ratio Lower Upper

168 100

99 53.9 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

150000

100000

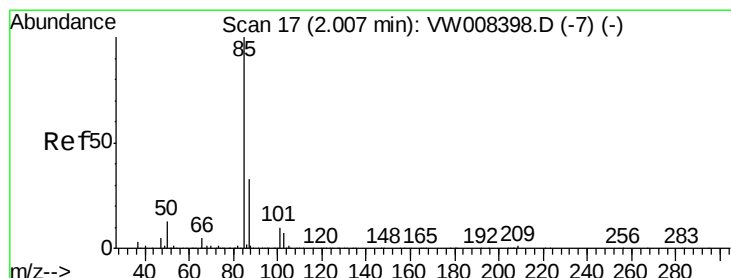
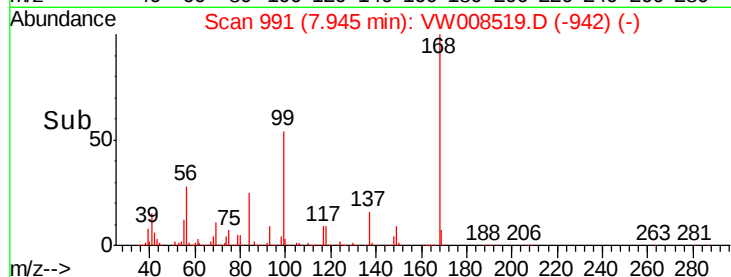
50000

0

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 16.053 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW008519.D

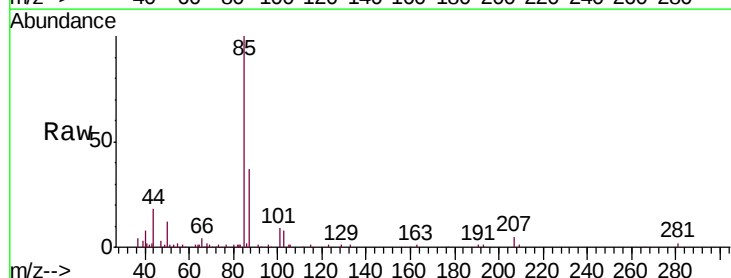
Acq: 06 Feb 2019 11:27

Tgt Ion: 85 Resp: 49572

Ion Ratio Lower Upper

85 100

87 37.1 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

20000

15000

10000

5000

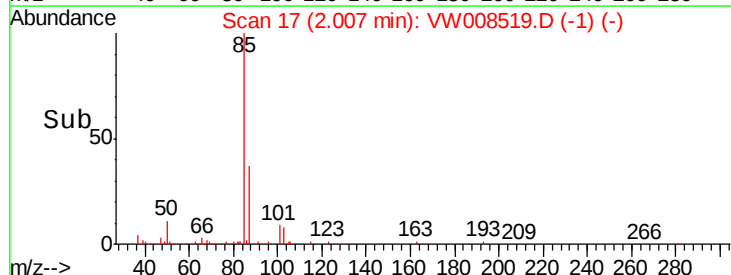
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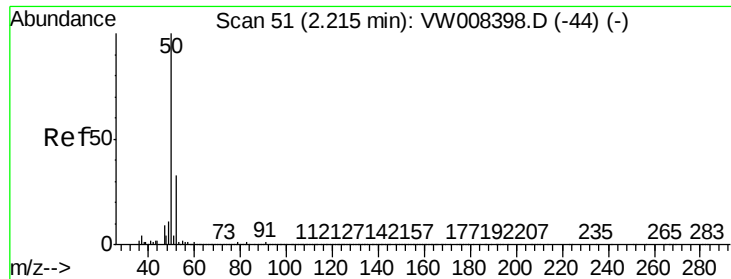
1.90

2.00

2.10

Time-->

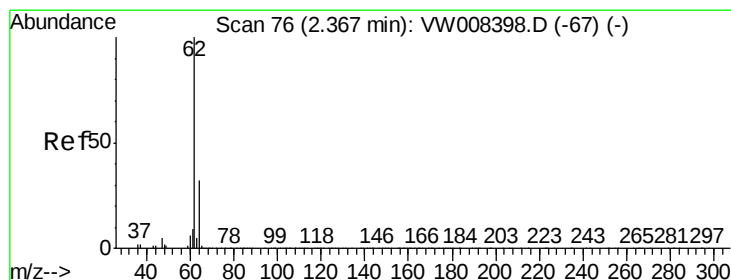
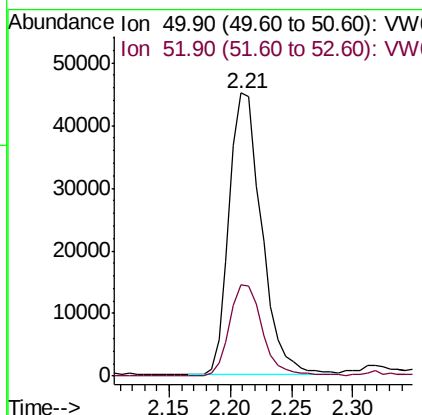
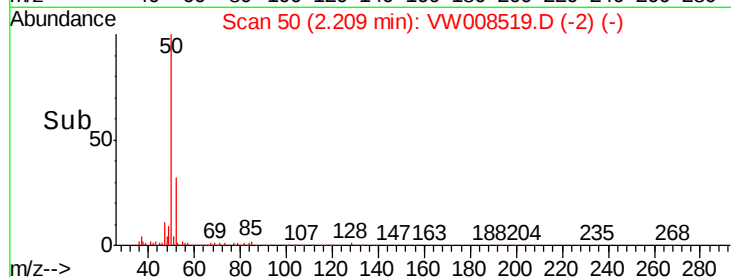
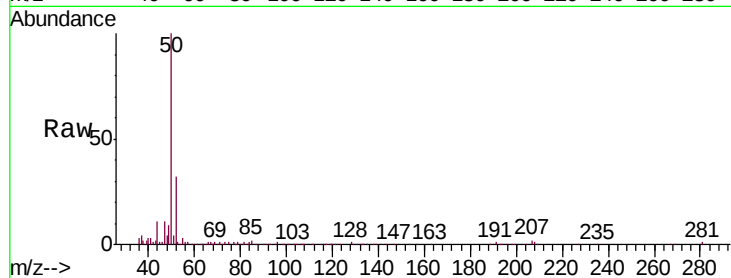




#3
Chloromethane
Concen: 16.286 ug/l
RT: 2.21 min Scan# 50
Delta R.T. -0.01 min
Lab File: VW008519.D
Acq: 06 Feb 2019 11:27

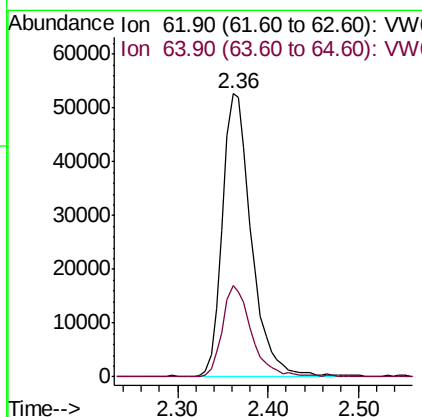
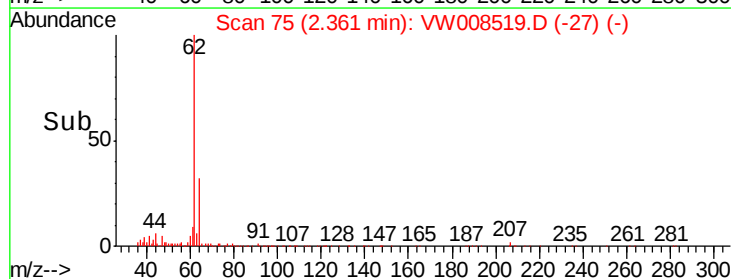
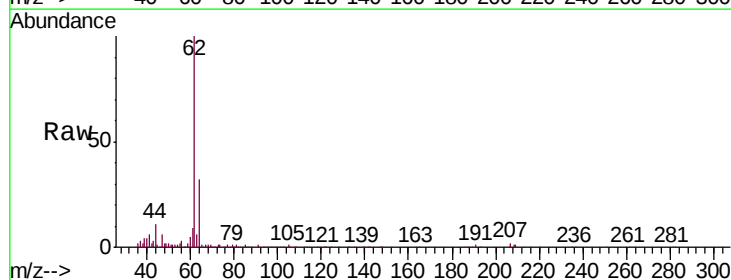
Instrument :
MSVOA_W
ClientSampleId :
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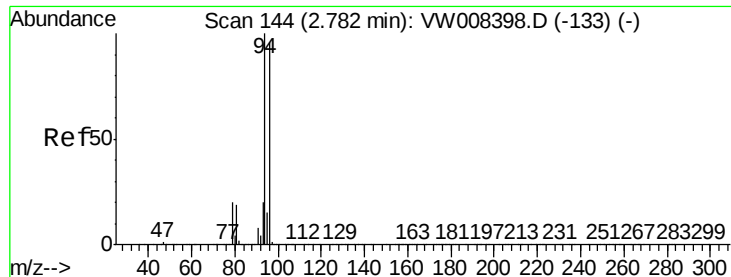
Tgt Ion: 50 Resp: 83297
Ion Ratio Lower Upper
50 100
52 32.3 26.3 39.5



#4
Vinyl Chloride
Concen: 18.043 ug/l
RT: 2.36 min Scan# 75
Delta R.T. -0.01 min
Lab File: VW008519.D
Acq: 06 Feb 2019 11:27

Tgt Ion: 62 Resp: 117473
Ion Ratio Lower Upper
62 100
64 32.4 25.5 38.3





#5

Bromomethane

Concen: 23.686 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW008519.D

Acq: 06 Feb 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

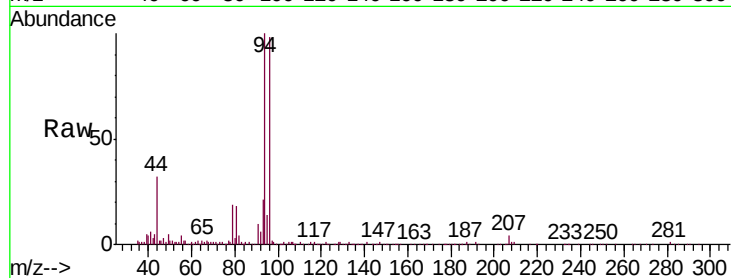
VW0206SBS01

Tgt Ion: 94 Resp: 99469

Ion Ratio Lower Upper

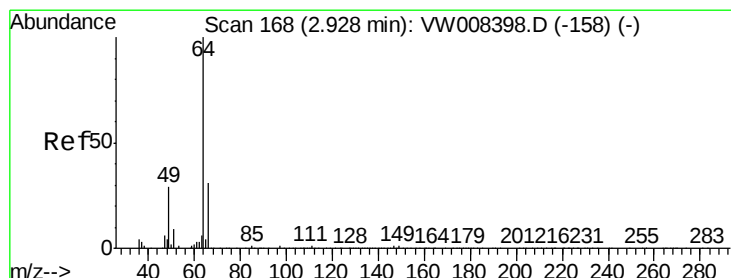
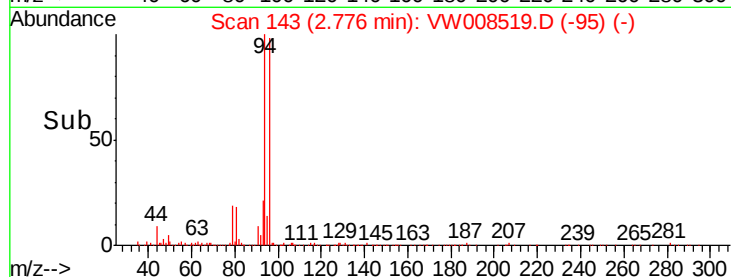
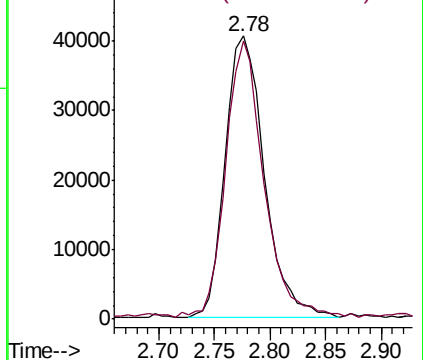
94 100

96 97.6 77.2 115.8



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 21.888 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW008519.D

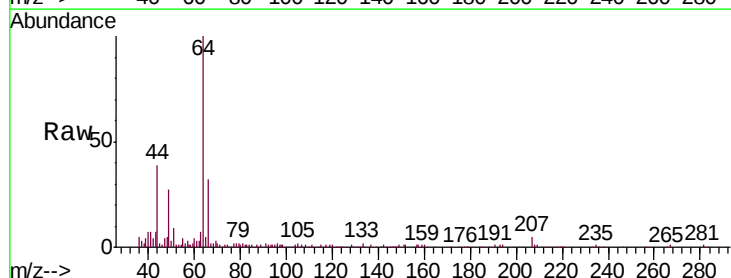
Acq: 06 Feb 2019 11:27

Tgt Ion: 64 Resp: 87153

Ion Ratio Lower Upper

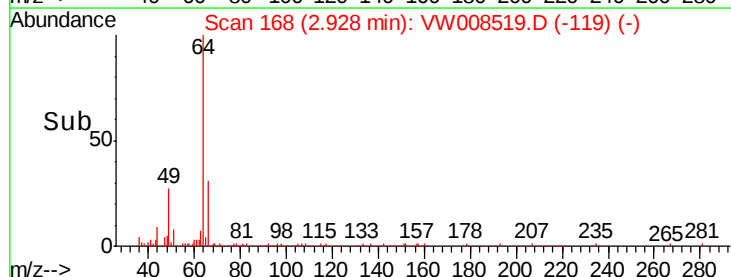
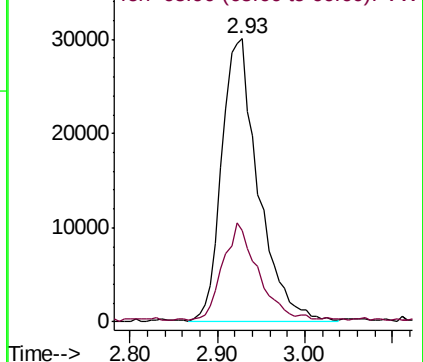
64 100

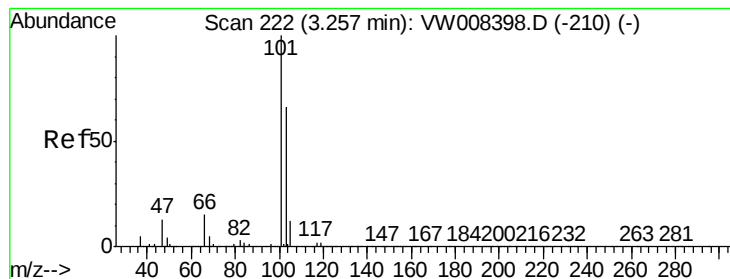
66 31.5 24.9 37.3



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



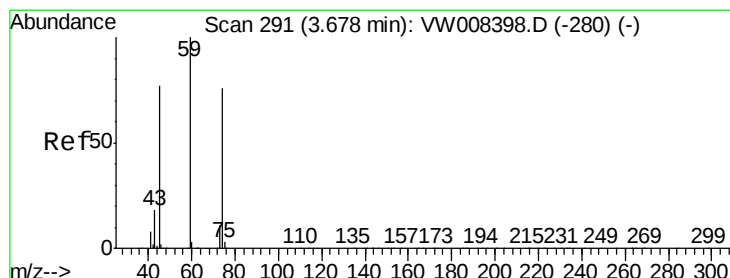
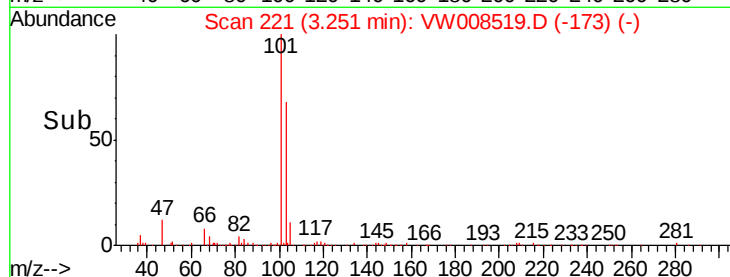
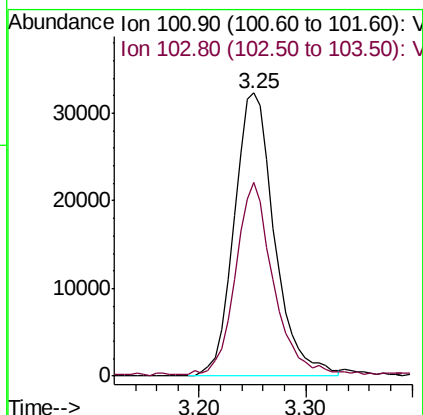
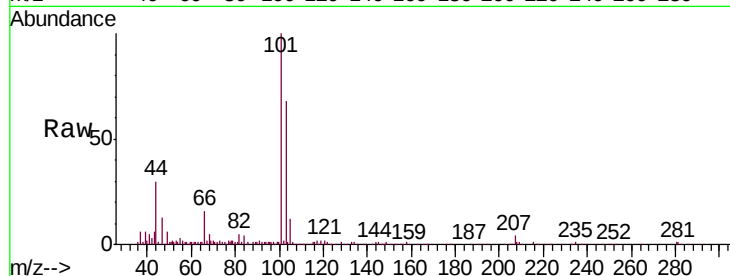


#7

Trichlorofluoromethane
 Concen: 18.452 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW008519.D
 Acq: 06 Feb 2019 11:27

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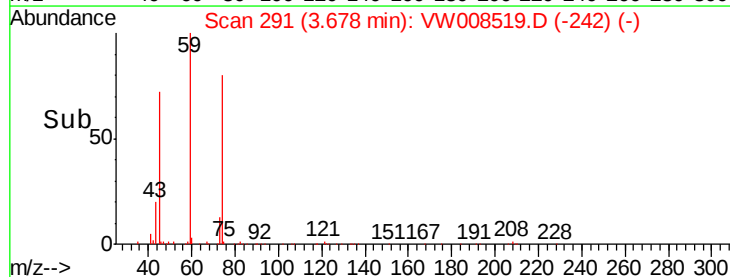
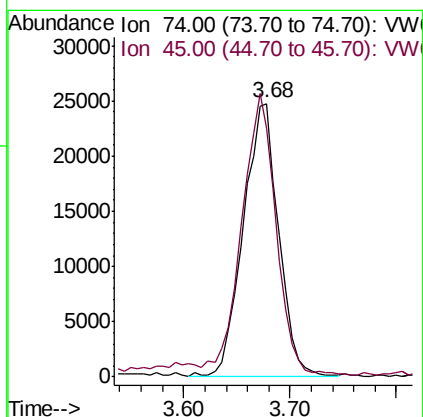
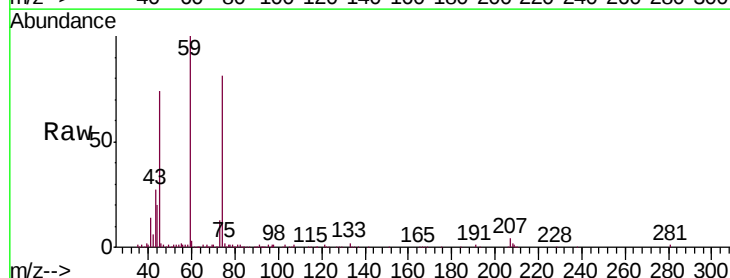
Tgt Ion:101 Resp: 85847
 Ion Ratio Lower Upper
 101 100
 103 67.6 52.5 78.7



#8

Diethyl Ether
 Concen: 18.366 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. 0.00 min
 Lab File: VW008519.D
 Acq: 06 Feb 2019 11:27

Tgt Ion: 74 Resp: 57388
 Ion Ratio Lower Upper
 74 100
 45 100.6 51.7 155.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.820 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW008519.D

Acq: 06 Feb 2019 11:27

Instrument :

MSVOA_W

ClientSampleId :

VW0206SBS01

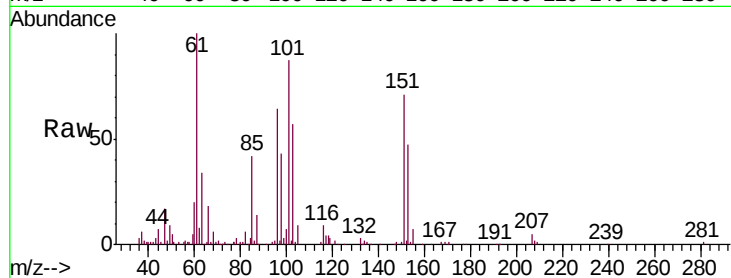
Tgt Ion:101 Resp: 106653

Ion Ratio Lower Upper

101 100

85 44.8 35.0 52.4

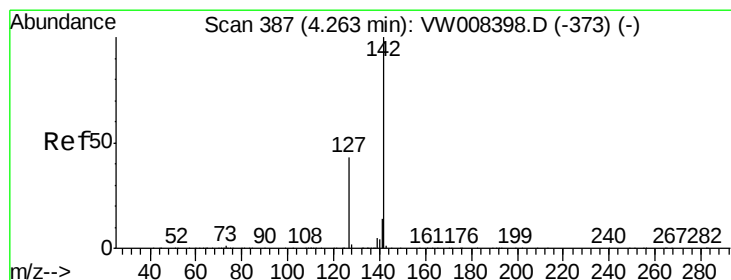
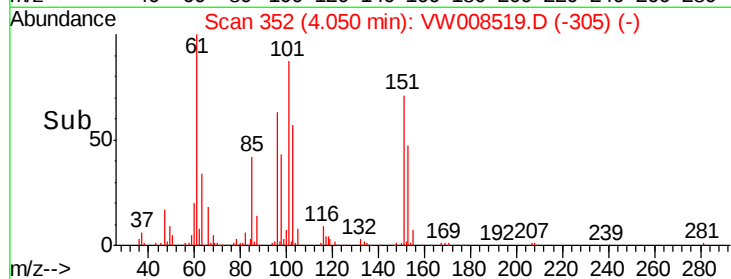
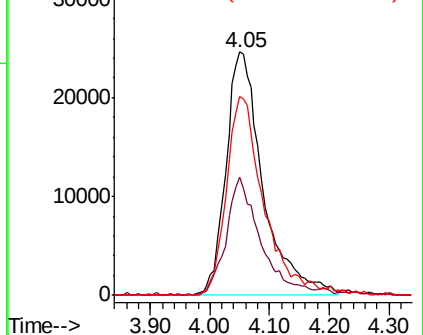
151 79.6 62.6 94.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 18.995 ug/l

RT: 4.26 min Scan# 386

Delta R.T. -0.01 min

Lab File: VW008519.D

Acq: 06 Feb 2019 11:27

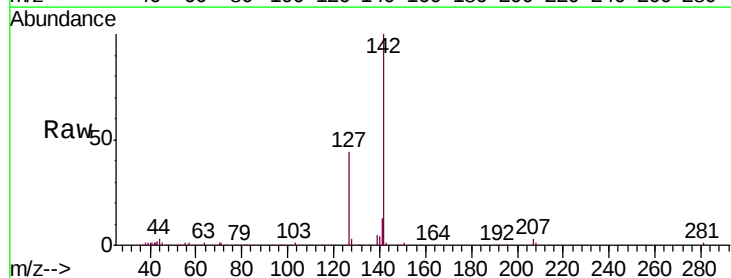
Tgt Ion:142 Resp: 170029

Ion Ratio Lower Upper

142 100

127 42.8 34.6 52.0

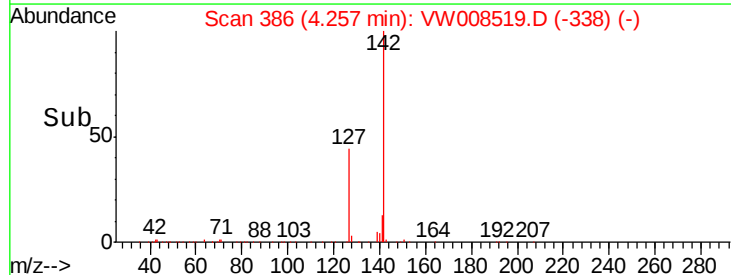
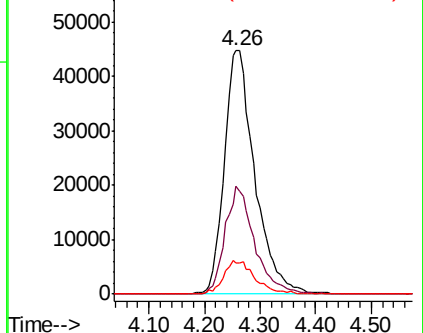
141 13.9 11.4 17.2

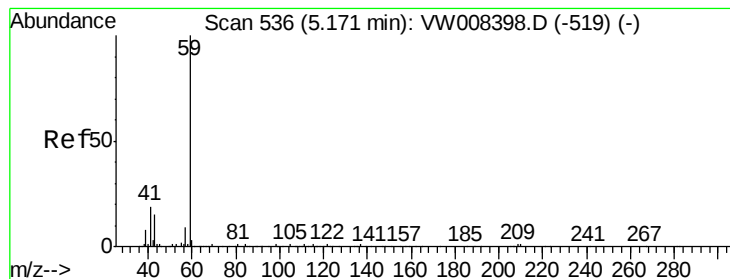


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



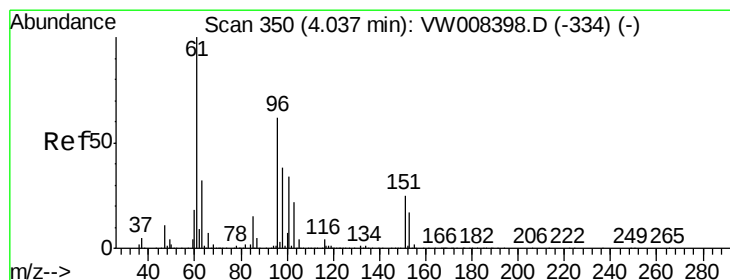
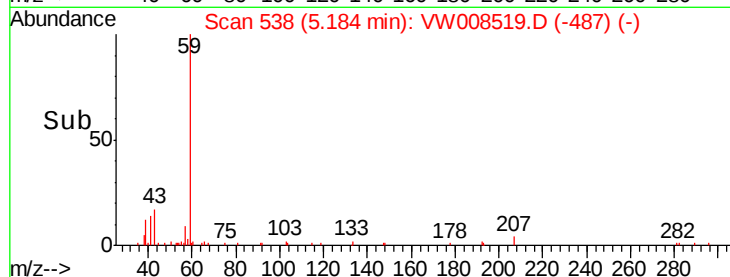
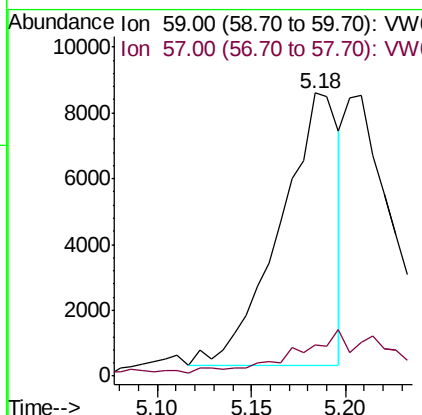
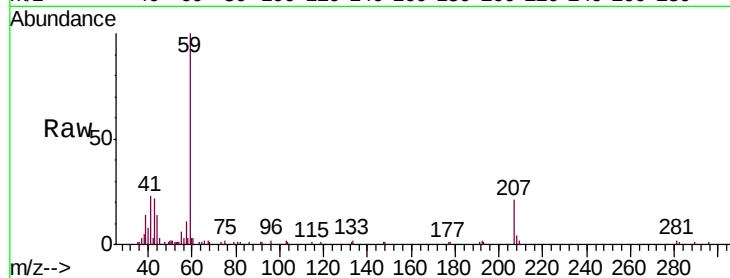


#11

Tert butyl alcohol
 Concen: 36.085 ug/l
 RT: 5.18 min Scan# 538
 Delta R.T. 0.01 min
 Lab File: VW008519.D
 Acq: 06 Feb 2019 11:27

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0206SBS01

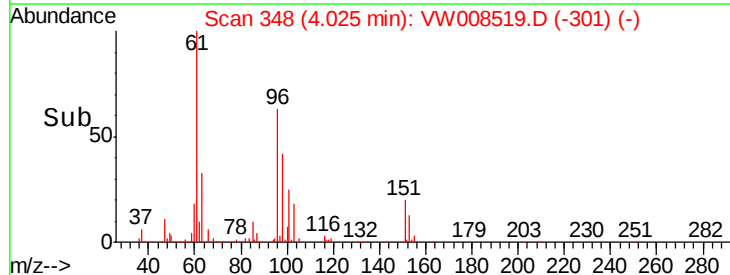
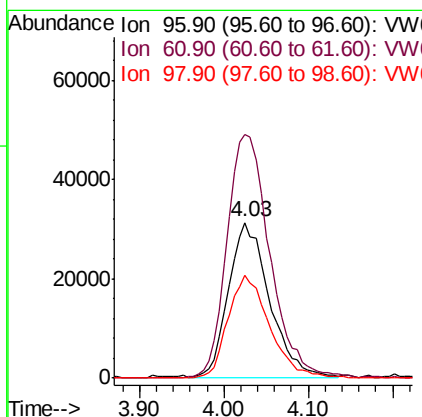
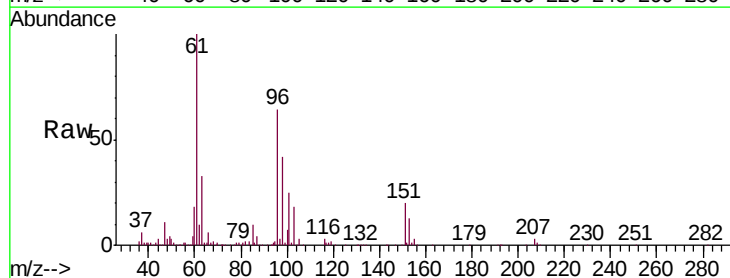
Tgt Ion: 59 Resp: 17883
 Ion Ratio Lower Upper
 59 100
 57 10.2 9.3 13.9

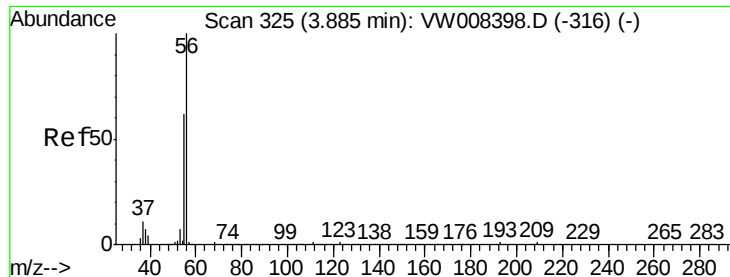


#12

1,1-Dichloroethene
 Concen: 17.925 ug/l
 RT: 4.03 min Scan# 348
 Delta R.T. -0.01 min
 Lab File: VW008519.D
 Acq: 06 Feb 2019 11:27

Tgt Ion: 96 Resp: 102804
 Ion Ratio Lower Upper
 96 100
 61 157.7 129.5 194.3
 98 66.2 48.6 73.0





#13

Acrolein

Concen: 69.747 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW008519.D

Acq: 06 Feb 2019 11:27

Instrument :

MSVOA_W

ClientSampled :

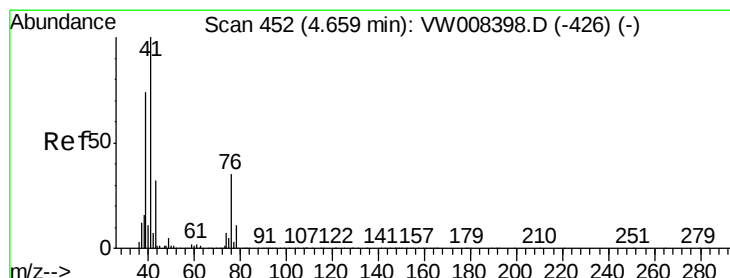
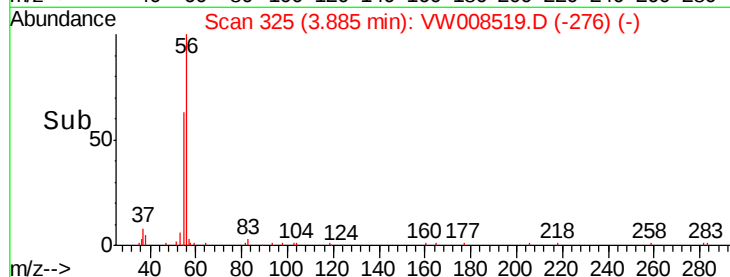
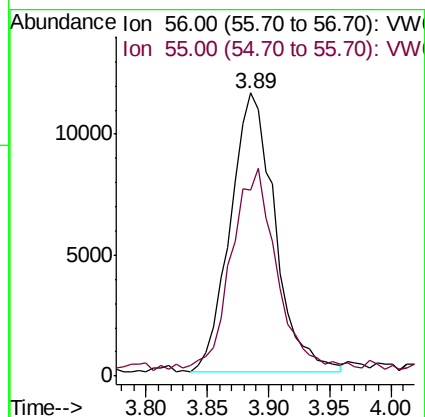
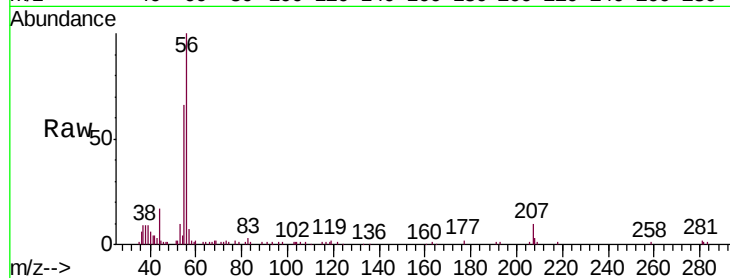
VW0206SBS01

Tgt Ion: 56 Resp: 29155

Ion Ratio Lower Upper

56 100

55 72.7 56.7 85.1



#14

Allyl chloride

Concen: 16.736 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW008519.D

Acq: 06 Feb 2019 11:27

Tgt Ion: 41 Resp: 182261

Ion Ratio Lower Upper

41 100

39 72.8 57.7 86.5

76 36.3 26.9 40.3

