

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:00:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	296535	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	275623	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	128776	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	9694	2.44	ug/L	0.00
7) Chloroethane-d5	1.57	69	8092	1.64	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	23546	2.35	ug/L	0.00
20) 2-Butanone-d5	3.94	46	2284	2.02	ug/L	0.01
24) Chloroform-d	4.40	84	16762	2.24	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	9893	2.37	ug/L	0.00
29) Benzene-d6	5.10	84	34958	2.45	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	11066	2.62	ug/L	0.00
37) Toluene-d8	7.36	98	33163	2.41	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	3603	2.00	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	2458	2.91	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	8206	1.97	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	12335	2.46	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	12702	2.962	ug/L	95
3) Chloromethane	1.25	50	10092	2.640	ug/L	98
5) Vinyl chloride	1.33	62	10941	2.628	ug/L	94
6) Bromomethane	1.52	94	8195	1.740	ug/L	99
8) Chloroethane	1.59	64	6560	1.803	ug/L	98
9) Trichlorofluoromethane	1.77	101	23277	2.713	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	12168	2.550	ug/L	98
12) 1,1-Dichloroethene	2.14	96	9902	2.442	ug/L	94
13) Acetone	2.19	43	5497	4.922	ug/L	88
14) Carbon disulfide	2.32	76	21699	2.579	ug/L #	94
15) Methyl Acetate	2.46	43	3587	2.007	ug/L	98
16) Methylene chloride	2.54	84	19792	3.799	ug/L	96
17) Methyl tert-butyl Ether	2.80	73	19354	2.229	ug/L #	92
18) trans-1,2-Dichloroethene	2.79	96	9338	2.637	ug/L	86
19) 1,1-Dichloroethane	3.23	63	15321	2.546	ug/L	94
21) 2-Butanone	4.03	43	2680	2.191	ug/L	76
22) cis-1,2-Dichloroethene	3.97	96	10147	2.581	ug/L	95
23) Bromochloromethane	4.30	128	4590	2.406	ug/L #	84
25) Chloroform	4.43	83	19771	2.932	ug/L	99
27) 1,2-Dichloroethane	5.18	62	10857	2.361	ug/L #	94
30) Cyclohexane	4.73	56	13131	2.639	ug/L	94
31) 1,1,1-Trichloroethane	4.66	97	14291	2.542	ug/L #	77
32) Carbon tetrachloride	4.87	117	13138	2.615	ug/L	97
34) Benzene	5.15	78	35179	2.610	ug/L	100
35) Trichloroethene	5.96	95	10135	2.612	ug/L	95
36) Methylcyclohexane	6.17	83	13939	2.398	ug/L	88
40) 1,2-Dichloropropane	6.22	63	9212	2.705	ug/L #	90
41) Bromodichloromethane	6.56	83	10642	2.403	ug/L	91
42) cis-1,3-Dichloropropene	7.07	75	10916	2.214	ug/L	91
43) 4-Methyl-2-pentanone	7.27	43	9899	3.929	ug/L	97

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Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	39297	2.598	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	9017	2.151	ug/L	87
46) 1,1,2-Trichloroethane	7.88	97	7123	2.359	ug/L	87
47) Tetrachloroethene	8.02	164	9481	2.920	ug/L	93
49) 2-Hexanone	8.18	43	5742	3.190	ug/L #	96
50) Dibromochloromethane	8.29	129	7710	2.278	ug/L	95
51) 1,2-Dibromoethane	8.40	107	7063	2.367	ug/L #	95
52) Chlorobenzene	8.93	112	27246	2.641	ug/L	99
53) Ethylbenzene	9.06	91	41220	2.485	ug/L	98
54) m,p-Xylene	9.18	106	15523	2.404	ug/L	95
55) o-xylene	9.59	106	16275	2.602	ug/L	95
56) Styrene	9.61	104	22380	2.163	ug/L	96
57) Isopropylbenzene	9.98	105	39365	2.386	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	8320	2.145	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	6586	2.368	ug/L	96
62) Bromoform	9.78	173	4225	2.333	ug/L #	90
63) 1,3-Dichlorobenzene	11.23	146	19911	2.634	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	19971	2.536	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	18733	2.523	ug/L	92
66) 1,2-Dibromo-3-chloropropan	12.70	75	2282	4.533	ug/L #	1
67) 1,3,5-Trichlorobenzene	12.69	180	13211	2.354	ug/L	94
68) 1,2,4-trichlorobenzene	13.31	180	7000	1.629	ug/L	97
69) Naphthalene	13.56	128	6964	0.974	ug/L	97
70) 1,2,3-Trichlorobenzene	13.80	180	6708	1.672	ug/L	93

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

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Misc : 5.00G/10mL/MSV0A V/SOIL

```
ALS Vial      : 1      Sample Multiplier: 1
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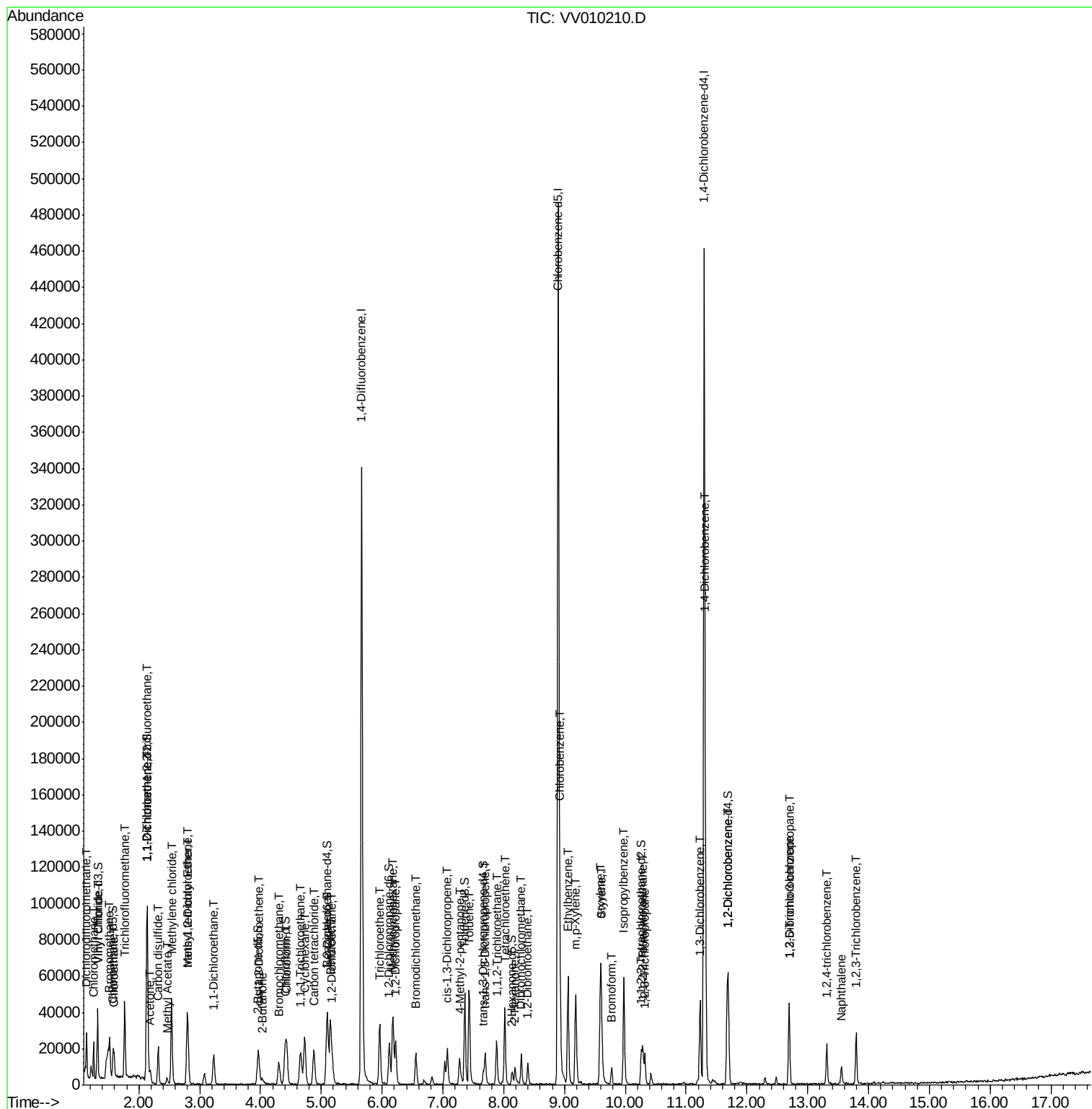
Quant Time: Apr 10 14:00:54 2019

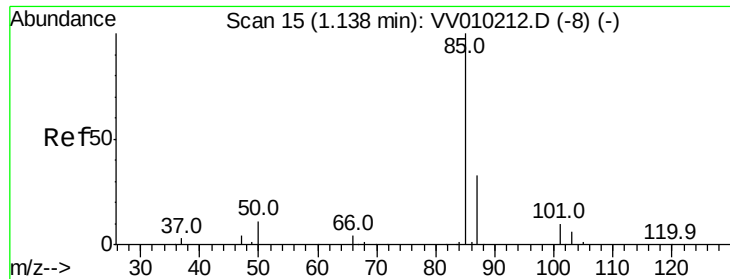
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM041019S.M

Quant Title : VOC Analysis

QLast Update : Wed Apr 10 13:55:42 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.962 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV010210.D

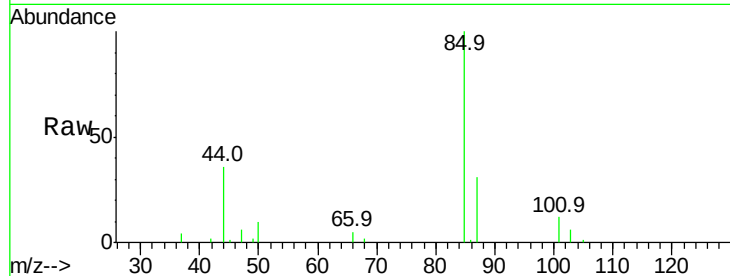
Acq: 10 Apr 2019 12:14

Tgt Ion: 85 Resp: 12702

Ion Ratio Lower Upper

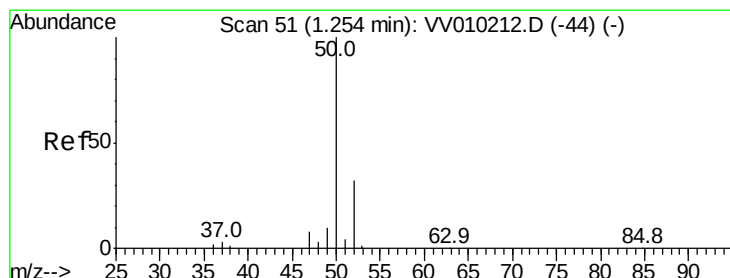
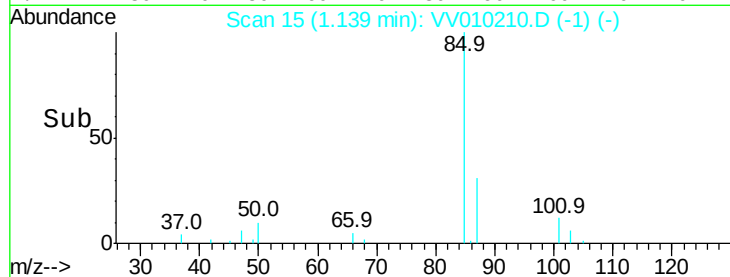
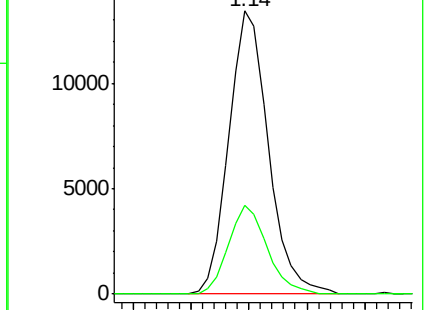
85 100

87 30.6 23.3 43.3



Abundance Ion 85.00 (84.70 to 85.70): VV010210.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010210.D (-8) (-)



#3

Chloromethane

Concen: 2.640 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV010210.D

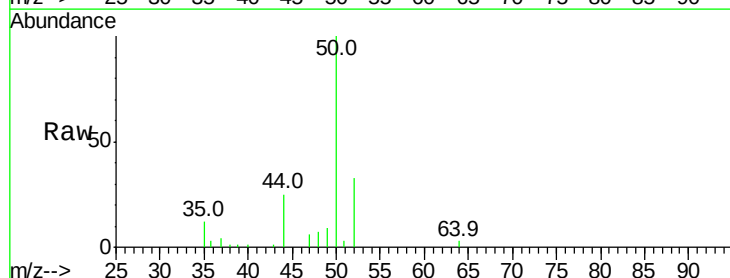
Acq: 10 Apr 2019 12:14

Tgt Ion: 50 Resp: 10092

Ion Ratio Lower Upper

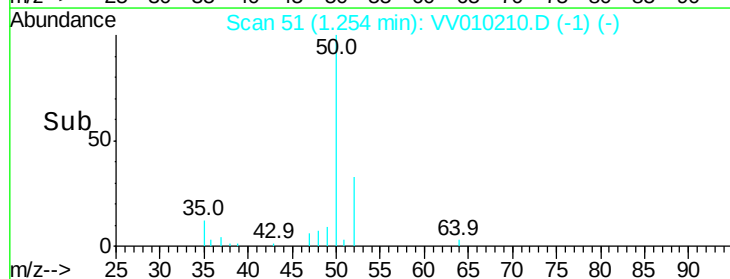
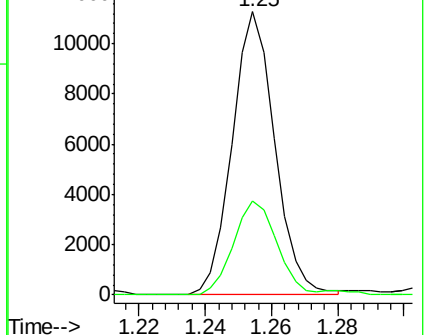
50 100

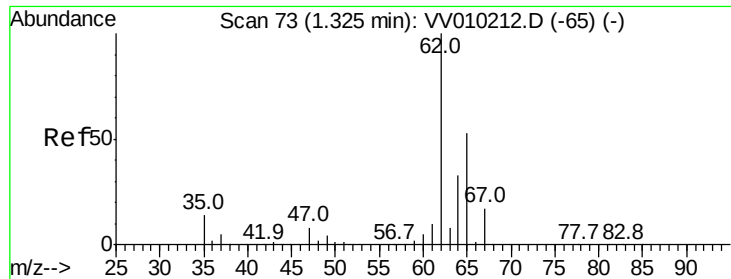
52 33.2 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VV010210.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV010210.D (-44) (-)





#5

Vinyl chloride

Concen: 2.628 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV010210.D

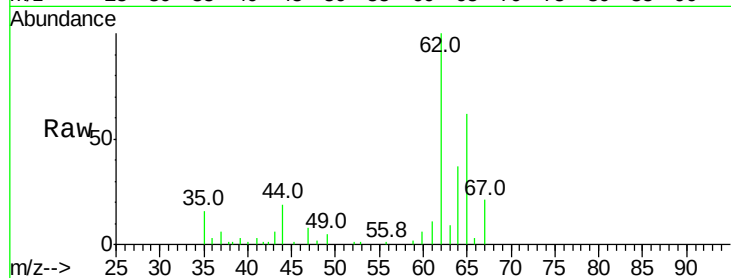
Acq: 10 Apr 2019 12:14

Tgt Ion: 62 Resp: 10941

Ion Ratio Lower Upper

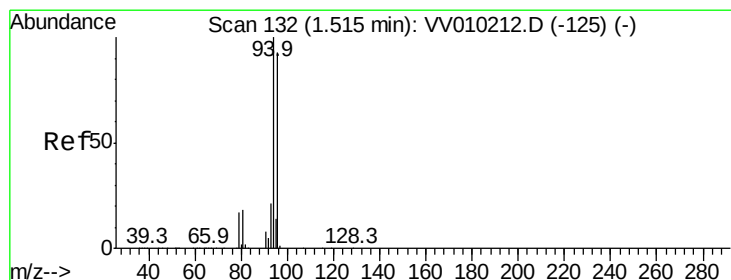
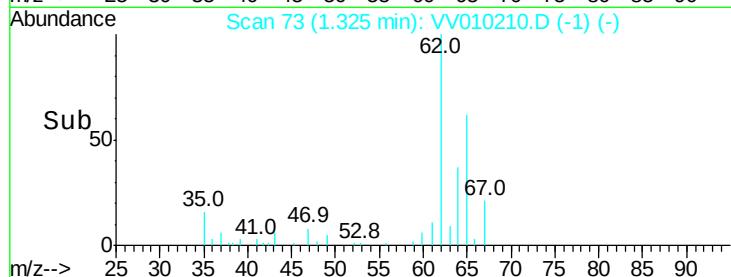
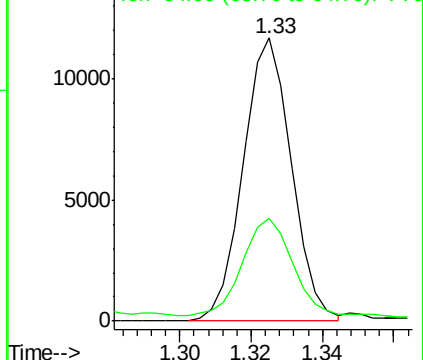
62 100

64 36.6 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 1.740 ug/L

RT: 1.52 min Scan# 134

Delta R.T. 0.01 min

Lab File: VV010210.D

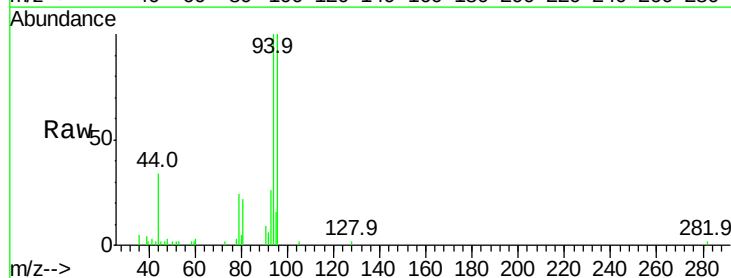
Acq: 10 Apr 2019 12:14

Tgt Ion: 94 Resp: 8195

Ion Ratio Lower Upper

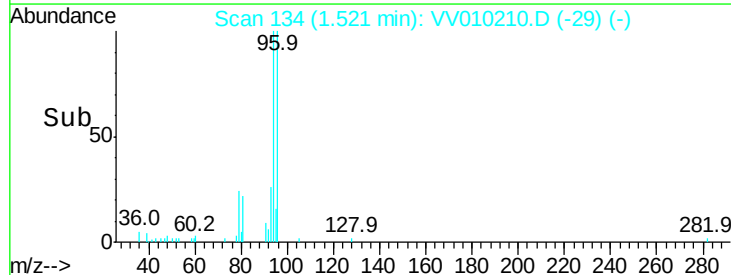
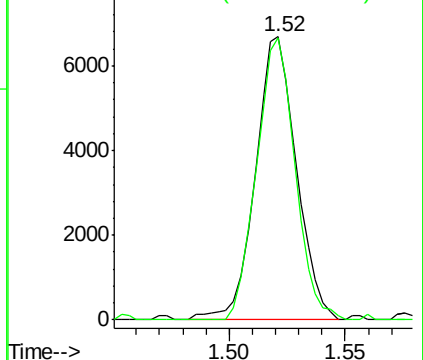
94 100

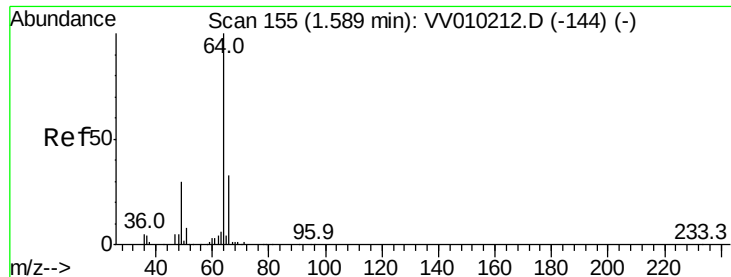
96 93.4 9.4 179.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 1.803 ug/L

RT: 1.59 min Scan# 156

Delta R.T. 0.00 min

Lab File: VV010210.D

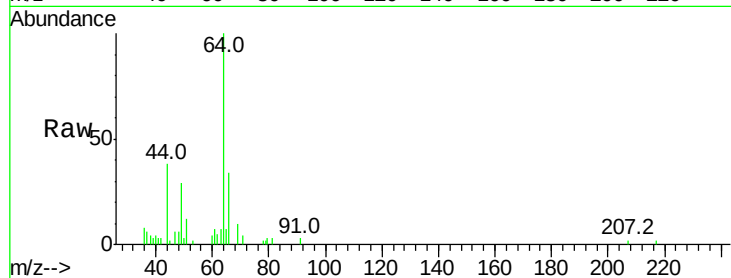
Acq: 10 Apr 2019 12:14

Tgt Ion: 64 Resp: 6560

Ion Ratio Lower Upper

64 100

66 33.6 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV010210.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV010210.D (-144) (-)

1.59

6000

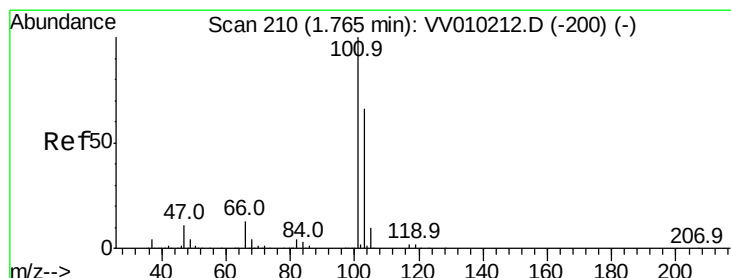
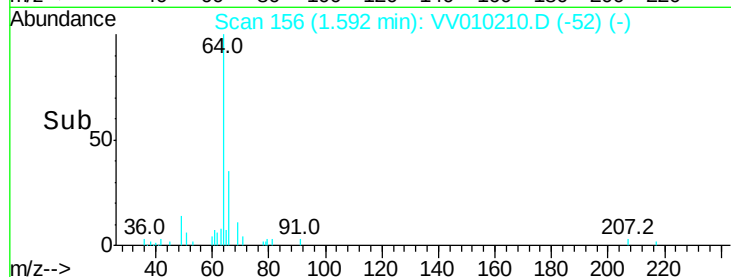
4000

2000

0

Time-->

1.55 1.60



#9

Trichlorofluoromethane

Concen: 2.713 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV010210.D

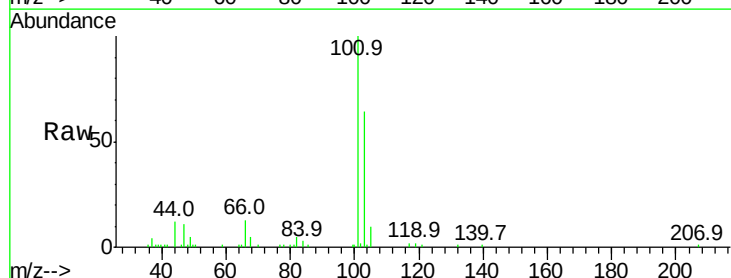
Acq: 10 Apr 2019 12:14

Tgt Ion: 101 Resp: 23277

Ion Ratio Lower Upper

101 100

103 65.1 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): VV010210.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV010210.D (-200) (-)

1.77

20000

15000

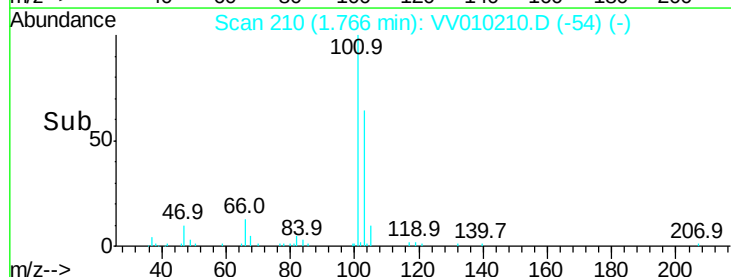
10000

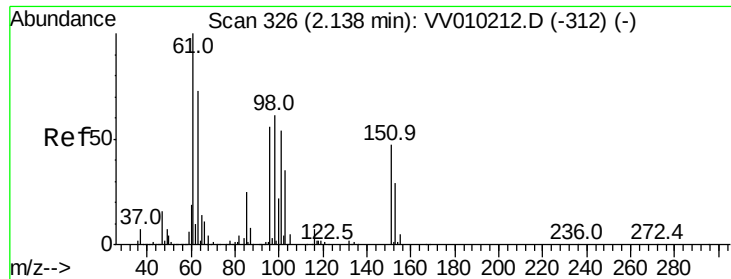
5000

0

Time-->

1.75 1.80





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.550 ug/L

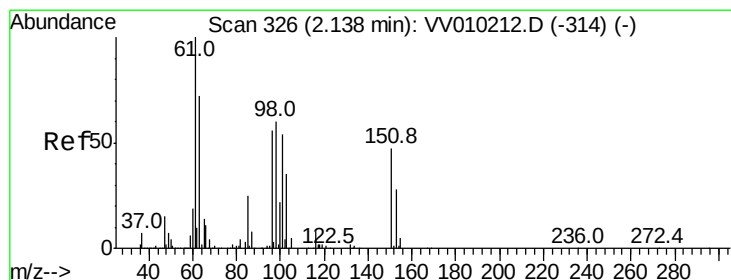
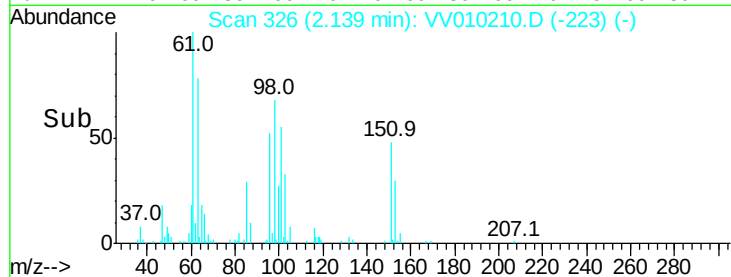
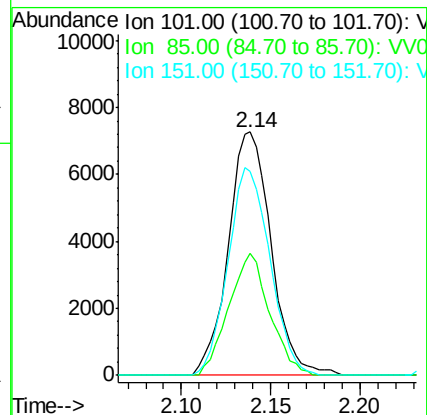
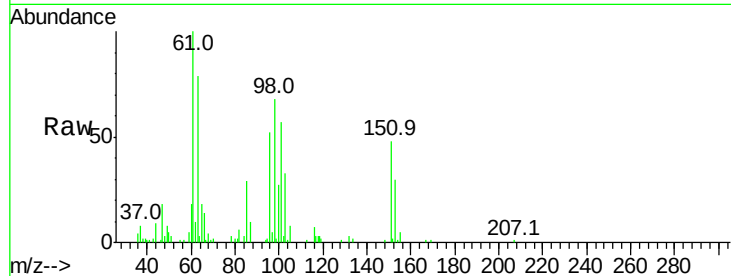
RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV010210.D

Acq: 10 Apr 2019 12:14

Tgt Ion:	101	Resp:	12168
Ion	Ratio	Lower	Upper
101	100		
85	47.9	36.7	55.1
151	83.6	68.1	102.1



#12

1,1-Dichloroethene

Concen: 2.442 ug/L

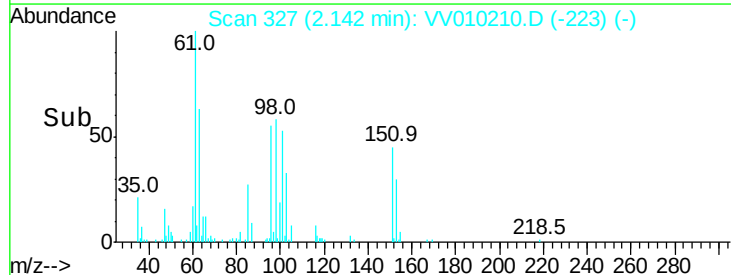
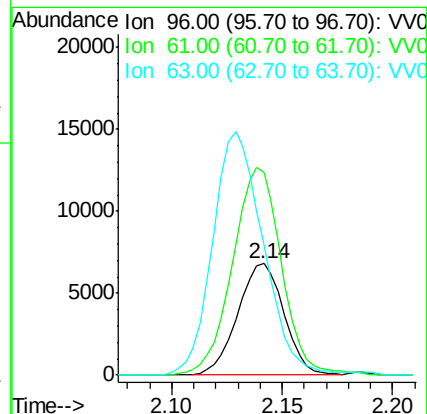
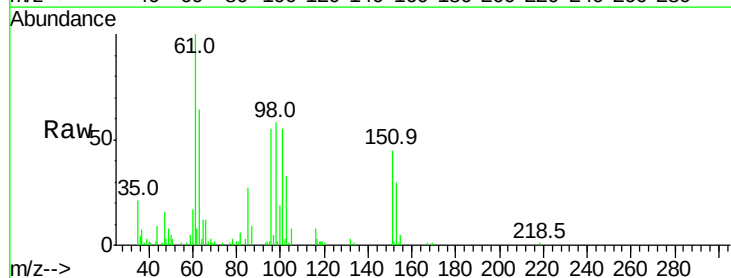
RT: 2.14 min Scan# 327

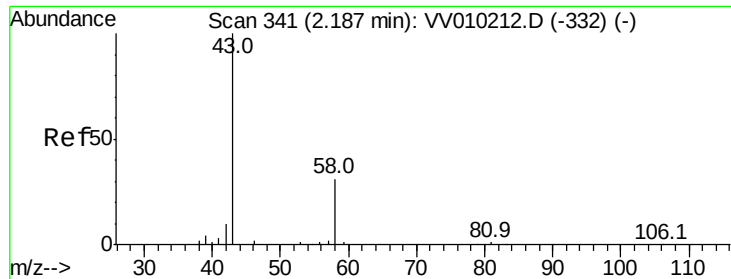
Delta R.T. 0.00 min

Lab File: VV010210.D

Acq: 10 Apr 2019 12:14

Tgt Ion:	96	Resp:	9902
Ion	Ratio	Lower	Upper
96	100		
61	181.7	125.3	232.7
63	116.3	91.3	169.6





#13

Acetone

Concen: 4.922 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV010210.D

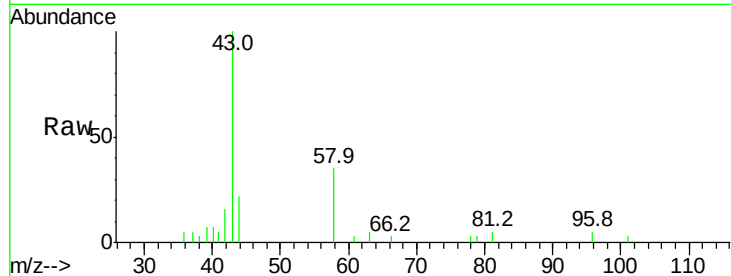
Acq: 10 Apr 2019 12:14

Tgt Ion: 43 Resp: 5497

Ion Ratio Lower Upper

43 100

58 37.4 0.0 61.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2.19

4000

3000

2000

1000

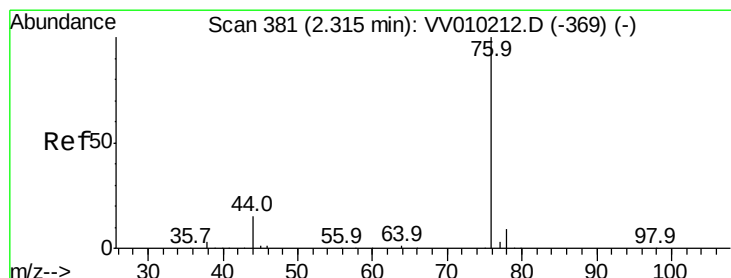
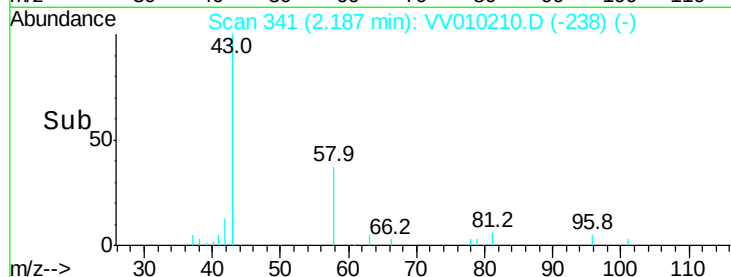
0

Time-->

2.15

2.20

2.25



#14

Carbon disulfide

Concen: 2.579 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV010210.D

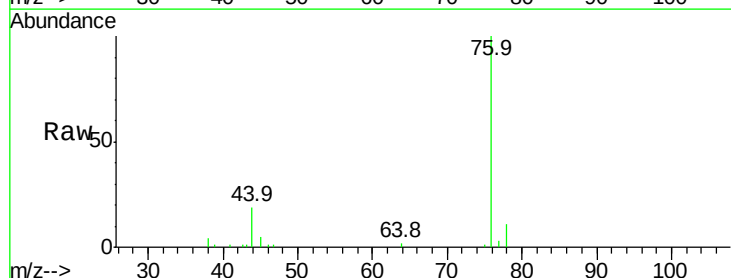
Acq: 10 Apr 2019 12:14

Tgt Ion: 76 Resp: 21699

Ion Ratio Lower Upper

76 100

78 10.9 7.0 10.4#



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

15000

10000

5000

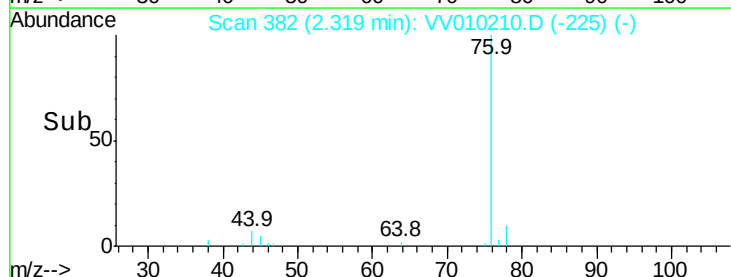
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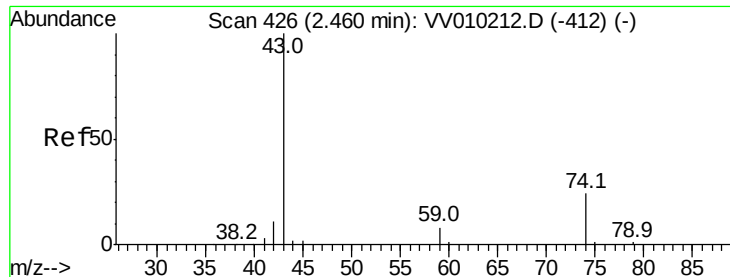
Time-->

2.25

2.30

2.35





#15

Methyl Acetate

Concen: 2.007 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV010210.D

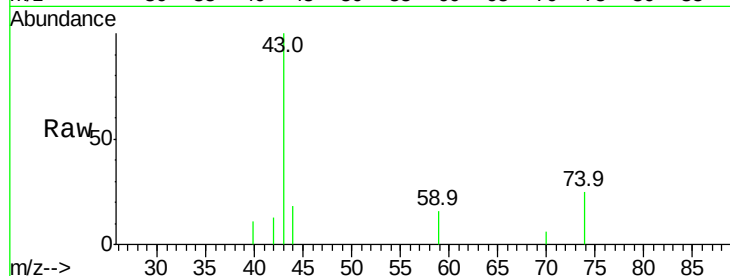
Acq: 10 Apr 2019 12:14

Tgt Ion: 43 Resp: 3587

Ion Ratio Lower Upper

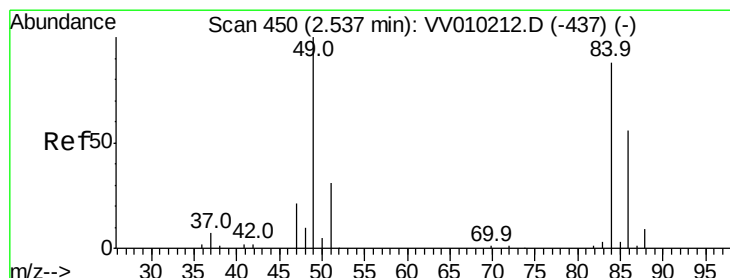
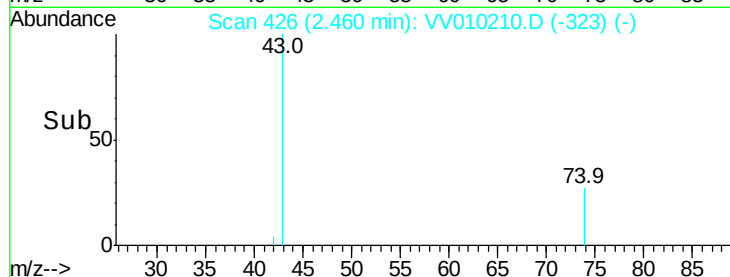
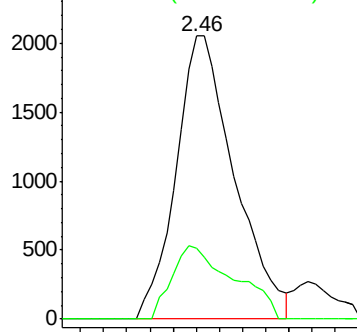
43 100

74 22.9 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VV010210.D (-323) (-)

Ion 74.00 (73.70 to 74.70): VV010210.D (-323) (-)



#16

Methylene chloride

Concen: 3.799 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV010210.D

Acq: 10 Apr 2019 12:14

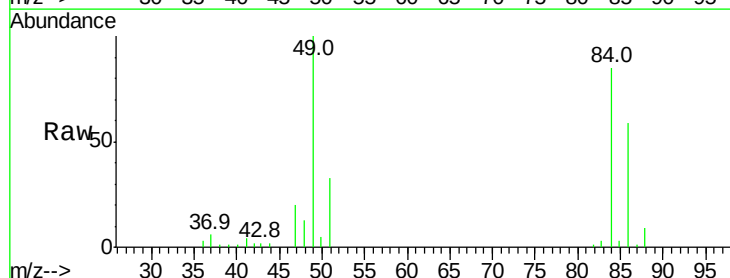
Tgt Ion: 84 Resp: 19792

Ion Ratio Lower Upper

84 100

49 117.4 79.9 148.5

86 68.8 44.5 82.7



Abundance Ion 84.00 (83.70 to 84.70): VV010210.D (-347) (-)

Ion 49.00 (48.70 to 49.70): VV010210.D (-347) (-)

Ion 86.00 (85.70 to 86.70): VV010210.D (-347) (-)

