

Data File : VV014107.D
Acq On : 17 Dec 2019 20:42
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05085

Quant Time: Dec 18 06:57:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 18 06:35:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	798515	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	757358	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	411551	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	262860	56.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	113.84%
7) Chloroethane-d5	1.58	69	239580	49.70	ug/L	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.40%
11) 1,1-Dichloroethene-d2	2.13	63	474663	46.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.96%
21) 2-Butanone-d5	3.92	46	351867	108.25	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.25%
24) Chloroform-d	4.40	84	484664	49.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.94%
26) 1,2-Dichloroethane-d4	5.08	65	299882	48.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.60%
32) Benzene-d6	5.09	84	991178	50.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.02%
36) 1,2-Dichloropropane-d6	6.11	67	306616	52.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.10%
41) Toluene-d8	7.35	98	918864	51.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.72%
43) trans-1,3-Dichloropropene-	7.66	79	132080	46.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.16%
47) 2-Hexanone-d5	8.13	63	256627	116.67	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.67%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	387963	45.48	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.96%
64) 1,2-Dichlorobenzene-d4	11.67	152	369269	45.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.36%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	306755	43.144	ug/L 98
3) Chloromethane	1.25	50	365429	56.218	ug/L 100
5) Vinyl chloride	1.33	62	325145	47.960	ug/L 97
6) Bromomethane	1.53	94	138514	33.793	ug/L 100
8) Chloroethane	1.60	64	195732	43.391	ug/L 99
9) Trichlorofluoromethane	1.77	101	433883	41.149	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	243161	40.489	ug/L 98
12) 1,1-Dichloroethene	2.14	96	233852	40.312	ug/L 91
13) Acetone	2.18	43	262880	55.186	ug/L 96
14) Carbon disulfide	2.32	76	633750	41.427	ug/L 100
15) Methyl Acetate	2.45	43	293944	50.070	ug/L 98
16) Methylene chloride	2.53	84	283027	46.852	ug/L 94
17) trans-1,2-Dichloroethene	2.79	96	253022	44.592	ug/L 97
18) Methyl tert-butyl Ether	2.80	73	788742	47.900	ug/L 99
19) 1,1-Dichloroethane	3.23	63	488538	47.789	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	284132	46.240	ug/L 98
22) 2-Butanone	4.00	43	399272	87.326	ug/L 95

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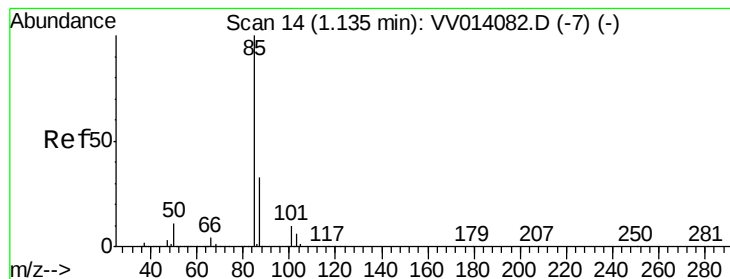
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	151966	44.763	ug/L	93
25) Chloroform	4.42	83	514760	47.101	ug/L	99
27) 1,2-Dichloroethane	5.17	62	377155	47.893	ug/L	99
29) Cyclohexane	4.72	56	408439	46.159	ug/L	97
30) 1,1,1-Trichloroethane	4.66	97	424770	46.459	ug/L	99
31) Carbon tetrachloride	4.87	117	379152	46.423	ug/L	99
33) Benzene	5.14	78	1076193	47.716	ug/L	100
34) Trichloroethene	5.96	95	297276	49.143	ug/L	98
35) Methylcyclohexane	6.17	83	415684	45.799	ug/L	98
37) 1,2-Dichloropropane	6.22	63	281974	51.656	ug/L	100
38) Bromodichloromethane	6.55	83	375823	48.547	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	406179	47.266	ug/L	95
40) 4-Methyl-2-pentanone	7.26	43	766248	107.948	ug/L	99
42) Toluene	7.43	91	1124905	48.340	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	362871	46.631	ug/L	96
45) 1,1,2-Trichloroethane	7.88	97	272684	50.326	ug/L	97
46) Tetrachloroethene	8.02	164	239391	43.855	ug/L	98
48) 2-Hexanone	8.18	43	584462	102.930	ug/L	94
49) Dibromochloromethane	8.29	129	310529	46.884	ug/L	99
50) 1,2-Dibromoethane	8.39	107	283704	47.531	ug/L	98
51) Chlorobenzene	8.92	112	730767	45.517	ug/L	99
52) Ethylbenzene	9.05	91	1210357	47.180	ug/L	99
53) m,p-Xylene	9.18	106	467961	47.171	ug/L	99
54) o-xylene	9.58	106	465192	47.959	ug/L	98
55) Styrene	9.60	104	821772	49.105	ug/L	98
56) Isopropylbenzene	9.97	105	1192383	45.734	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	383467	43.472	ug/L	99
59) 1,2,3-Trichloropropane	10.31	75	354376	47.973	ug/L	98
61) Bromoform	9.77	173	246704	49.004	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	595147	44.072	ug/L	100
63) 1,4-Dichlorobenzene	11.31	146	603781	43.249	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	604337	44.739	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	83546	44.504	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	445070	40.585	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	382936	38.700	ug/L	99
69) Naphthalene	13.55	128	1053523	40.550	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	422400	40.820	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 43.144 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014107.D

Acq: 17 Dec 2019 20:42

Instrument :

MSVOA_V

ClientSampleId :

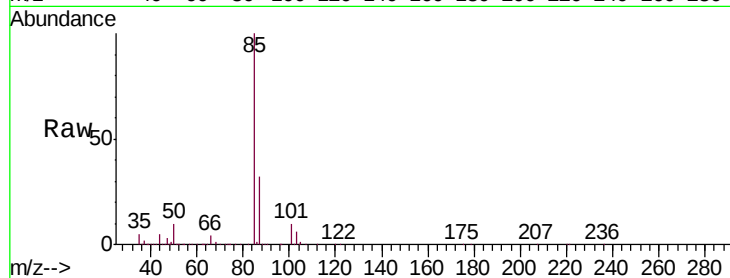
VSTD05085

Tgt Ion: 85 Resp: 306755

Ion Ratio Lower Upper

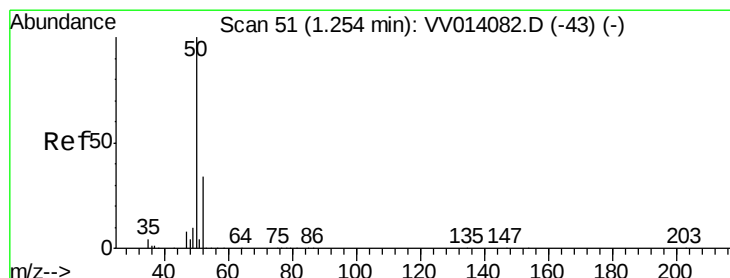
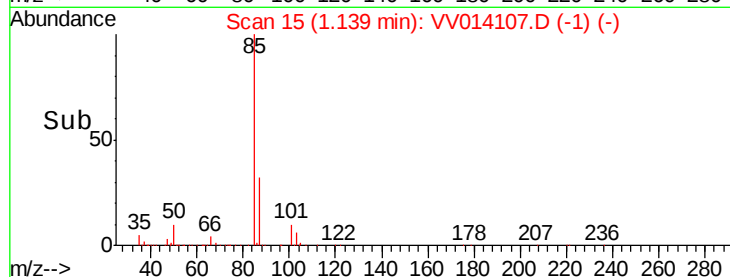
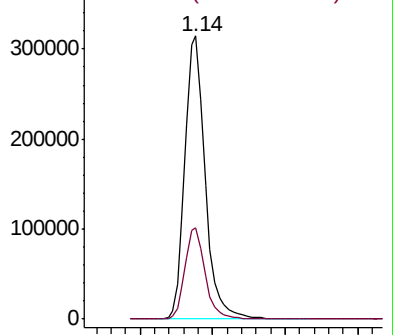
85 100

87 32.1 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 56.218 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV014107.D

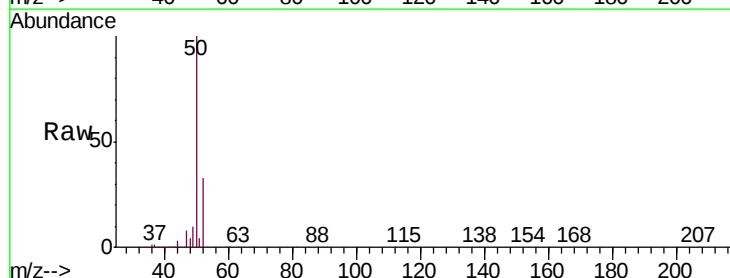
Acq: 17 Dec 2019 20:42

Tgt Ion: 50 Resp: 365429

Ion Ratio Lower Upper

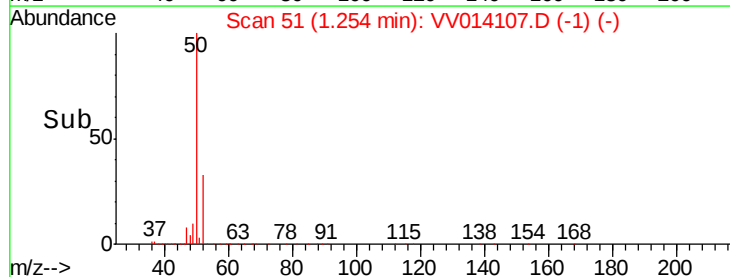
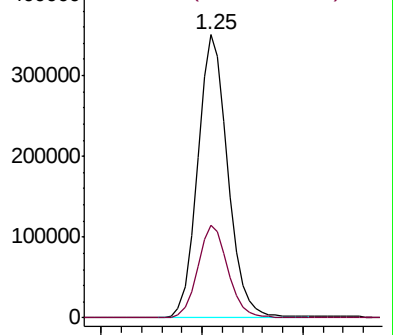
50 100

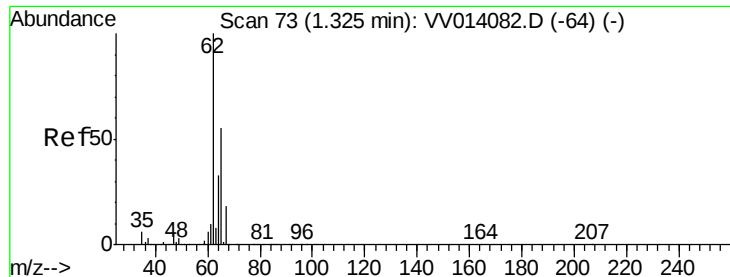
52 32.6 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 47.960 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014107.D

Acq: 17 Dec 2019 20:42

Instrument :

MSVOA_V

ClientSampleId :

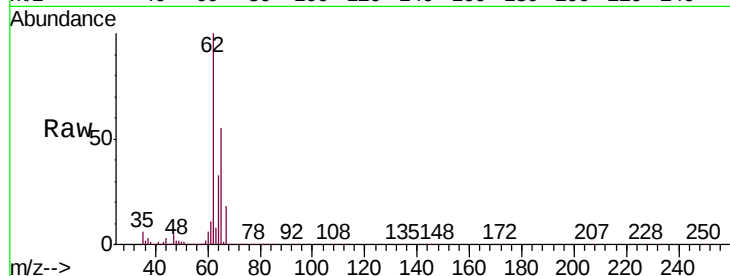
VSTD05085

Tgt Ion: 62 Resp: 325145

Ion Ratio Lower Upper

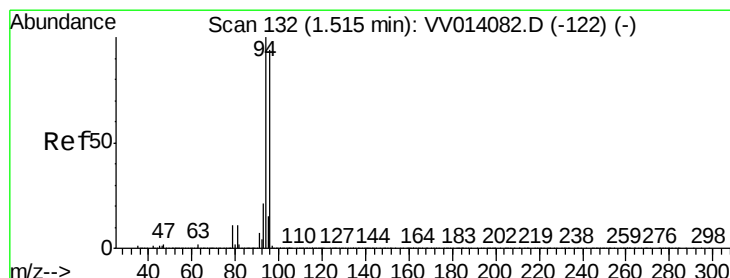
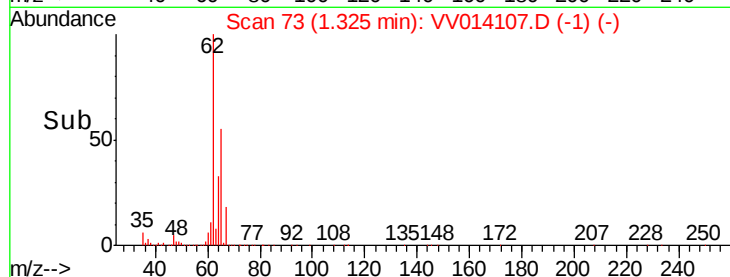
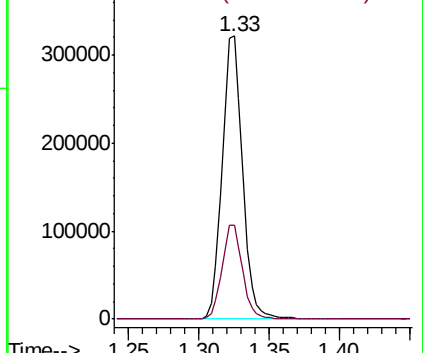
62 100

64 33.0 24.1 44.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 33.793 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.02 min

Lab File: VV014107.D

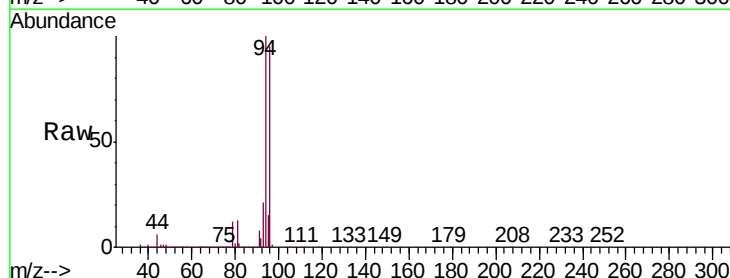
Acq: 17 Dec 2019 20:42

Tgt Ion: 94 Resp: 138514

Ion Ratio Lower Upper

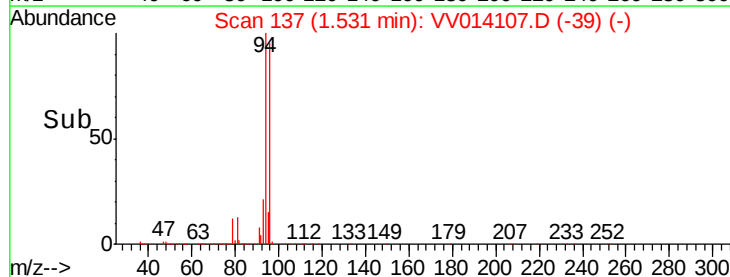
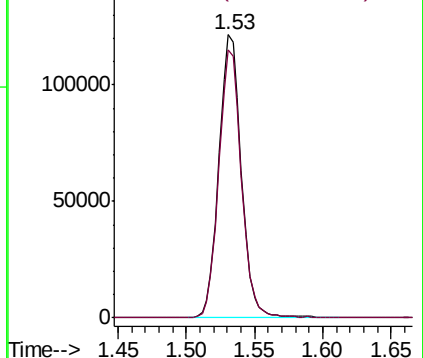
94 100

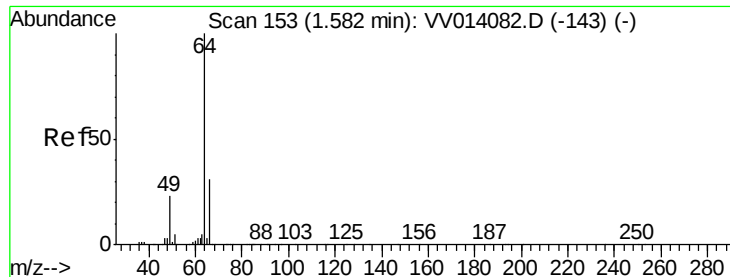
96 94.9 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 43.391 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.02 min

Lab File: VV014107.D

Acq: 17 Dec 2019 20:42

Instrument :

MSVOA_V

ClientSampleId :

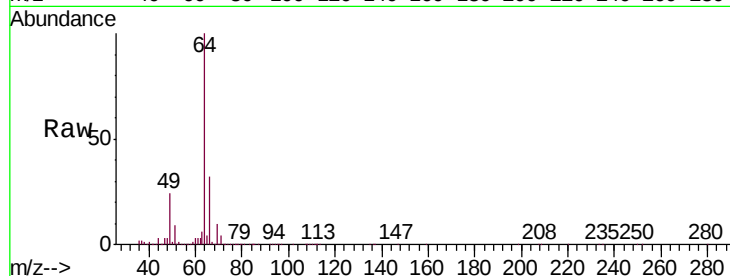
VSTD05085

Tgt Ion: 64 Resp: 195732

Ion Ratio Lower Upper

64 100

66 31.9 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VV014107.D (-153) (-)

Ion 66.00 (65.70 to 66.70): VV014107.D (-153) (-)

200000

150000

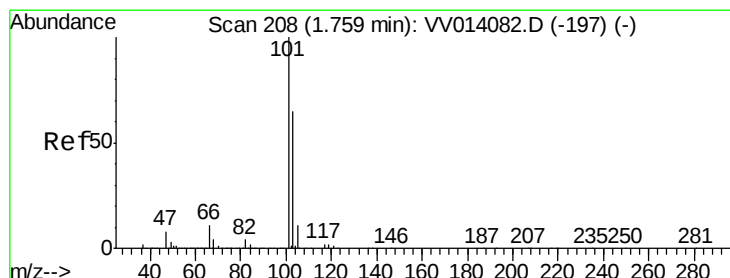
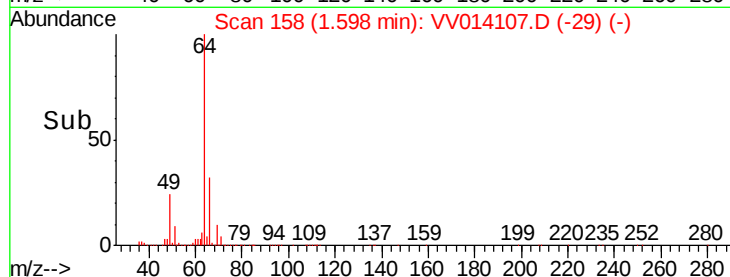
100000

50000

0

1.55 1.60 1.65 1.70

Time-->



#9

Trichlorofluoromethane

Concen: 41.149 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.01 min

Lab File: VV014107.D

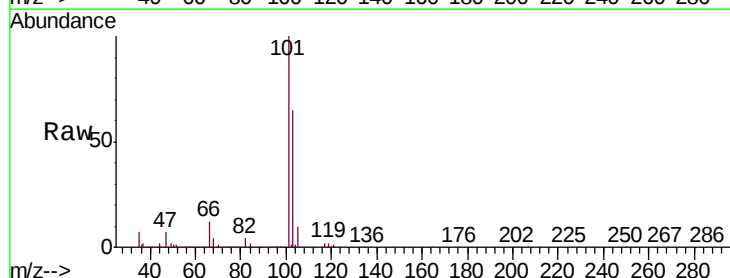
Acq: 17 Dec 2019 20:42

Tgt Ion: 101 Resp: 433883

Ion Ratio Lower Upper

101 100

103 65.3 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV014107.D (-208) (-)

Ion 103.00 (102.70 to 103.70): VV014107.D (-208) (-)

400000

300000

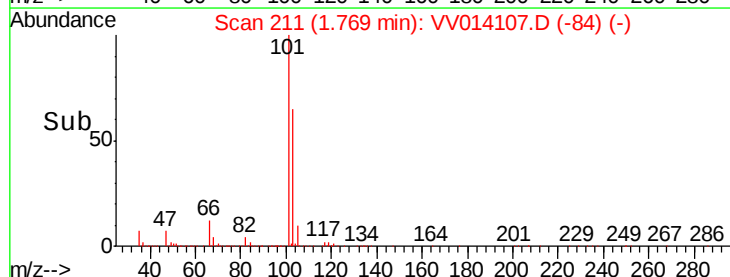
200000

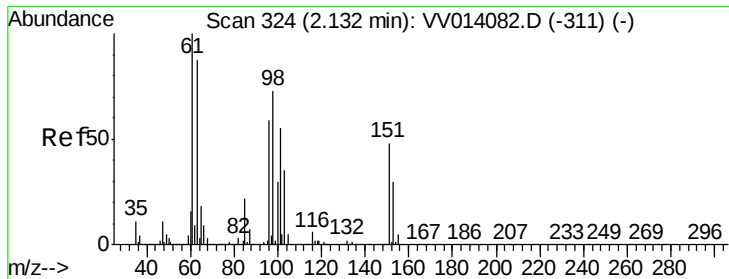
100000

0

1.70 1.75 1.80

Time-->





#10

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

Concen: 40.489 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV014107.D

Acq: 17 Dec 2019 20:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD05085

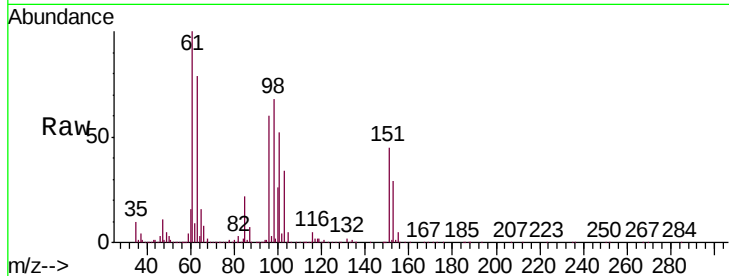
Tgt Ion: 101 Resp: 243161

Ion Ratio Lower Upper

101 100

85 41.0 32.5 48.7

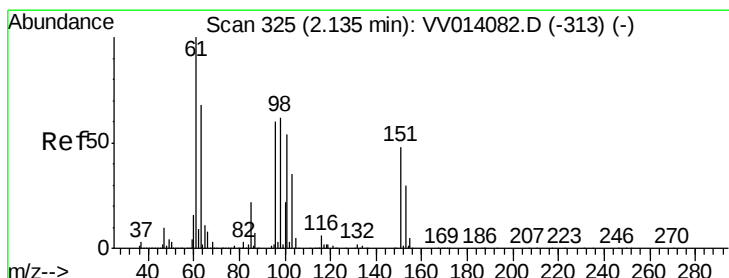
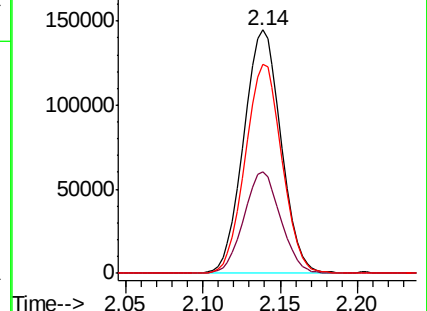
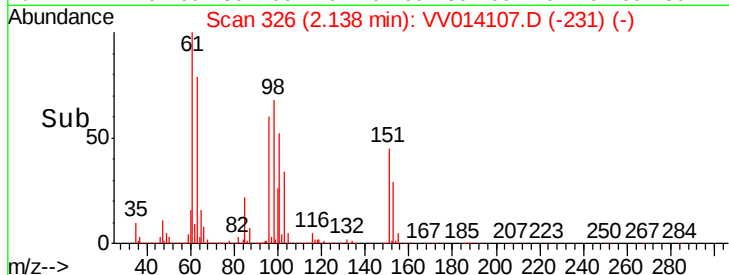
151 84.6 69.8 104.6



Abundance Ion 101.00 (100.70 to 101.70): VV014107.D (-231) (-)

Ion 85.00 (84.70 to 85.70): VV014107.D (-231) (-)

Ion 151.00 (150.70 to 151.70): VV014107.D (-231) (-)



#12

1,1-Dichloroethene

Concen: 40.312 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014107.D

Acq: 17 Dec 2019 20:42

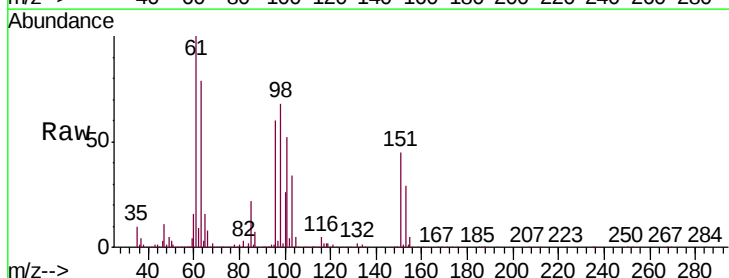
Tgt Ion: 96 Resp: 233852

Ion Ratio Lower Upper

96 100

61 167.2 114.0 211.8

63 132.5 80.3 149.1



Abundance Ion 96.00 (95.70 to 96.70): VV014107.D (-232) (-)

Ion 61.00 (60.70 to 61.70): VV014107.D (-232) (-)

Ion 63.00 (62.70 to 63.70): VV014107.D (-232) (-)

