

Data File : VL032920.D
Acq On : 7 Dec 2018 3:39
Operator : SY/AP
Sample : VSTDICCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Dec 07 05:50:43 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 05:41:55 2018
QLast Update : Fri Dec 07 05:41:55 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1226908	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3093931	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3763972	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2346668	8.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	85.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	1553872	9.237	ppbv	100
3) Chlorodifluoromethane	3.02	51	859166	8.977	ppbv	100
4) Chloromethane	3.17	50	469988	8.331	ppbv	100
5) Vinyl Chloride	3.30	62	490881	8.882	ppbv	100
6) Bromomethane	3.52	94	326015	9.099	ppbv	100
7) Chloroethane	3.61	64	186233	8.697	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1263171	9.224	ppbv	100
9) Propene	3.04	41	339186	8.854	ppbv	100
10) Heptane	8.25	43	1419585	9.742	ppbv	100
11) Trichlorofluoromethane	4.01	101	1454979	8.734	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1192080	9.414	ppbv	100
13) Ethanol	3.65	45	84593	6.523	ppbv	99
14) Bromoethene	3.79	108	435075	9.387	ppbv	100
15) Acetone	3.91	43	891713	8.143	ppbv	100
16) 1,3-Butadiene	3.37	39	408461	9.344	ppbv	100
17) tert-Butyl alcohol	4.36	59	145991	4.800	ppbv #	98
18) 1,1-Dichloroethene	4.36	96	466871	8.487	ppbv	100
19) Isopropyl Alcohol	4.03	45	619049	7.816	ppbv	100
20) Methylene Chloride	4.42	84	466128	7.574	ppbv	100
21) Allyl Chloride	4.48	41	847489	10.493	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	572482	8.616	ppbv	100
23) Vinyl Acetate	5.16	43	1723497	8.351	ppbv	100
24) 1,1-Dichloroethane	5.10	63	1368077	8.614	ppbv	100
25) Ethyl Acetate	5.78	43	2448926	9.477	ppbv	100
26) Hexane	5.79	57	1147000	9.455	ppbv	100
27) Carbon Disulfide	4.62	76	1400787	9.129	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	1692954	8.709	ppbv	100
29) Chloroform	5.86	83	1973937	9.797	ppbv	100
30) Cyclohexane	7.25	84	971489	9.808	ppbv	100
31) cis-1,2-Dichloroethene	5.65	61	1068934	9.684	ppbv	100
32) 1,1,1-Trichloroethane	6.63	97	2041518	9.052	ppbv	100
34) 2-Butanone	5.34	43	1346861	8.793	ppbv	100
35) Carbon Tetrachloride	7.14	117	2211230	9.610	ppbv	100
36) Benzene	7.01	78	2295189	9.470	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1537903	9.868	ppbv	100
38) Trichloroethene	7.97	130	978646	10.136	ppbv	100
39) 1,2-Dichloropropane	7.74	63	857825	9.655	ppbv	100
40) 1,4-Dioxane	7.97	88	303387	9.040	ppbv #	100
41) Tetrahydrofuran	6.16	42	882466	10.120	ppbv	100
42) Bromodichloromethane	7.93	83	2151148	9.926	ppbv	100
43) Methyl Methacrylate	8.15	69	940016	10.493	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3955297	10.003	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1295831	11.011	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1462101	10.956	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	963174	9.173	ppbv	100
48) Dibromochloromethane	10.46	129	1845117	9.512	ppbv	100
49) Bromoform	13.21	173	1575449	9.677	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2227590	9.944	ppbv	100
51) 2-Hexanone	10.28	43	1723265	10.402	ppbv #	100
52) Tetrachloroethene	11.38	164	848007	9.349	ppbv	100
53) Toluene	9.96	91	2738781	9.971	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1546413	9.874	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1323794	7.784	ppbv	100
57) Chlorobenzene	12.31	112	2106798	7.497	ppbv	100
58) Ethyl Benzene	12.88	91	3698657	8.621	ppbv	100
59) m/p-Xylene	13.16	91	3183856	8.222	ppbv #	100
60) o-Xylene	13.86	91	3100080	8.195	ppbv	100
61) Styrene	13.70	104	2431566	9.623	ppbv	100
62) Isopropylbenzene	14.84	105	4428829	8.249	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2117797	7.426	ppbv	100
64) n-propylbenzene	15.73	120	1196982	8.843	ppbv	100
65) tert-Butylbenzene	16.92	119	4393574	9.540	ppbv	100
66) Benzyl Chloride	17.17	91	2537873	10.394	ppbv	100
67) sec-Butylbenzene	17.47	105	6156675	9.429	ppbv	100
69) p-Isopropyltoluene	17.83	119	5029138	9.690	ppbv	100
70) n-Butylbenzene	18.73	91	4747528	9.297	ppbv	100
71) 2-Chlorotoluene	15.63	91	3508109	9.046	ppbv	100
72) 4-Ethyltoluene	16.01	105	3794729	9.508	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	3459672	8.998	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3941834	9.423	ppbv	100
75) 1,3-Dichlorobenzene	17.18	146	2192604	8.952	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2165977	9.440	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2101894	9.101	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	930636	6.378	ppbv	100
79) Naphthalene	22.42	128	2725041	11.020	ppbv	100
80) Naphthalene,2-methyl-	25.12	142	721544	13.054	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1348433	10.341	ppbv	100

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

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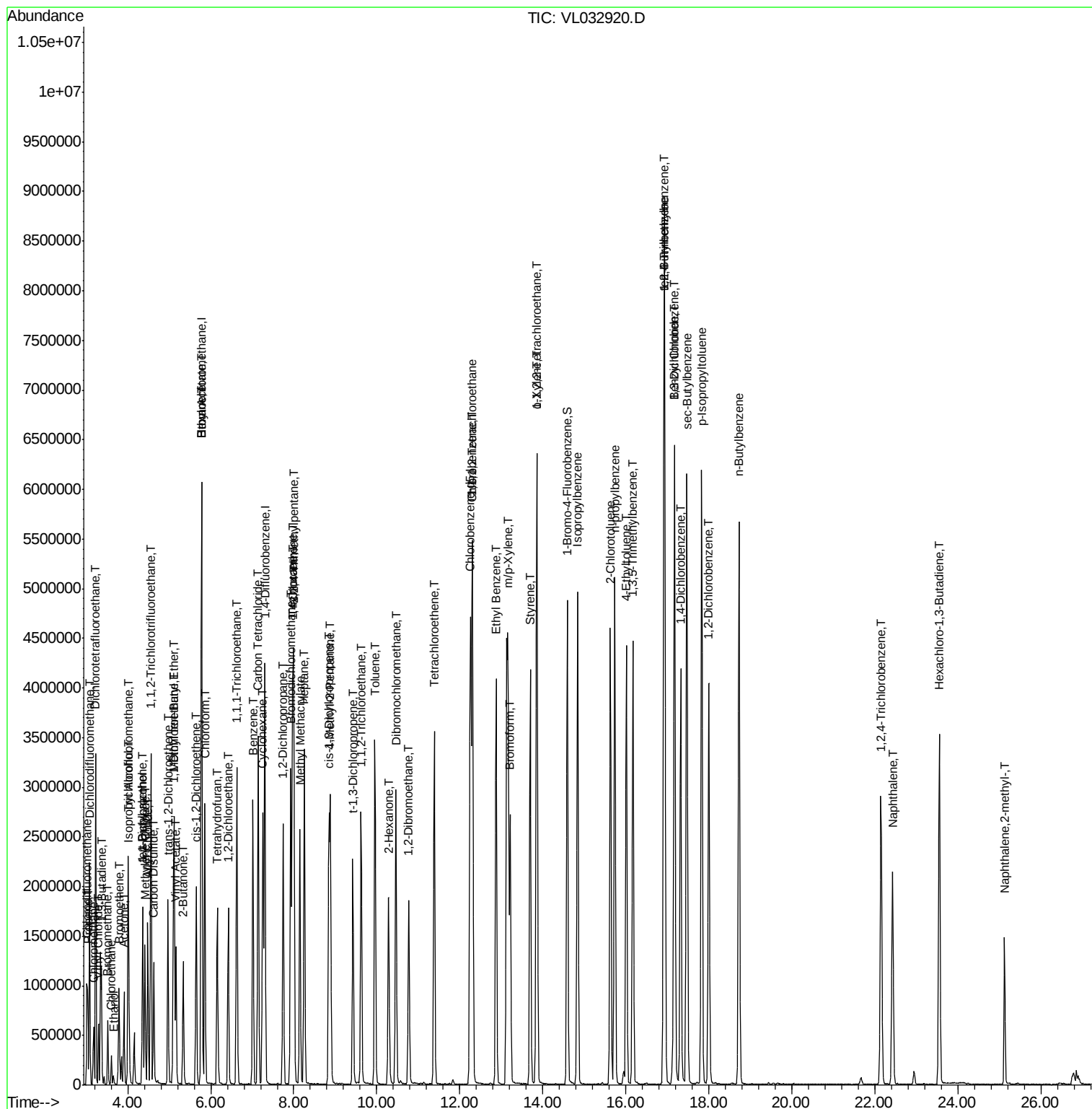
Quant Time: Dec 07 05:50:43 2018

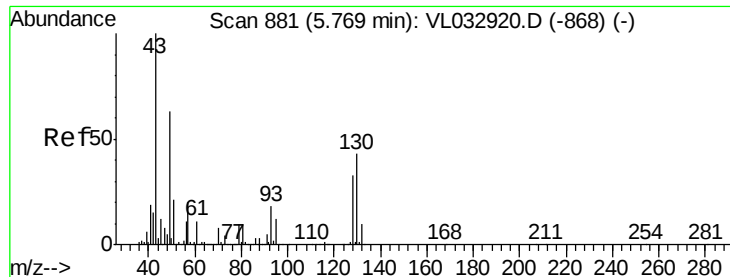
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL120718AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Dec 07 05:41:55 2018

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL032920.D

Acq: 7 Dec 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

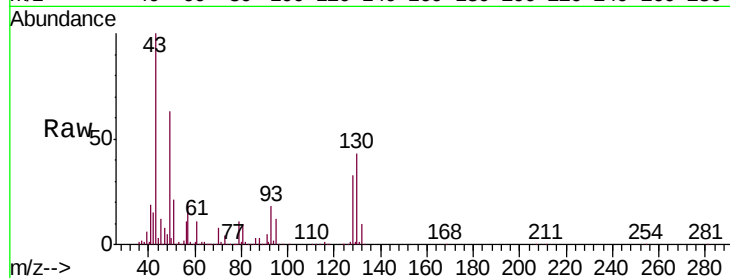
Tgt Ion: 49 Resp: 1226908

Ion Ratio Lower Upper

49 100

128 52.5 26.3 78.8

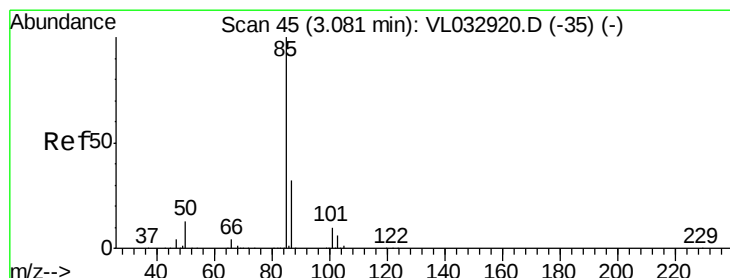
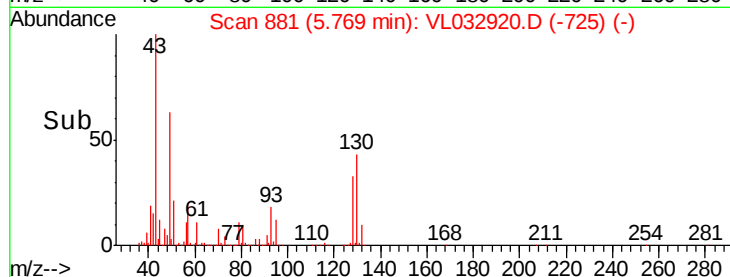
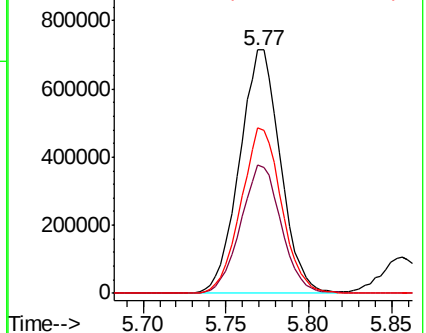
130 67.7 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 9.237 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032920.D

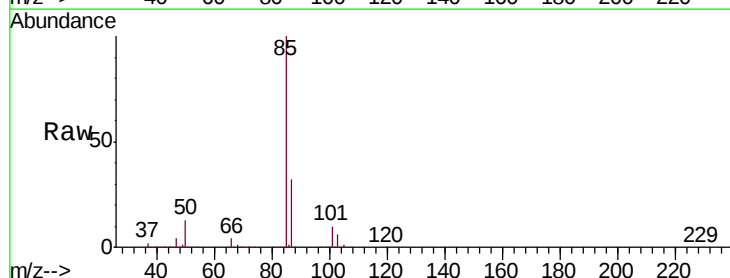
Acq: 7 Dec 2018 3:39

Tgt Ion: 85 Resp: 1553872

Ion Ratio Lower Upper

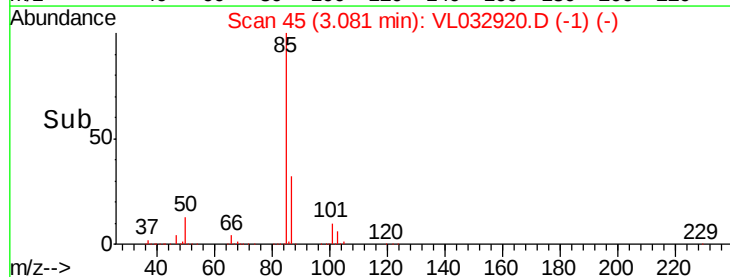
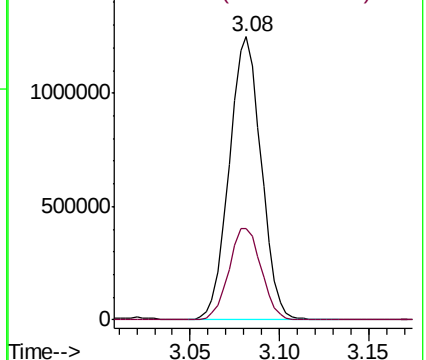
85 100

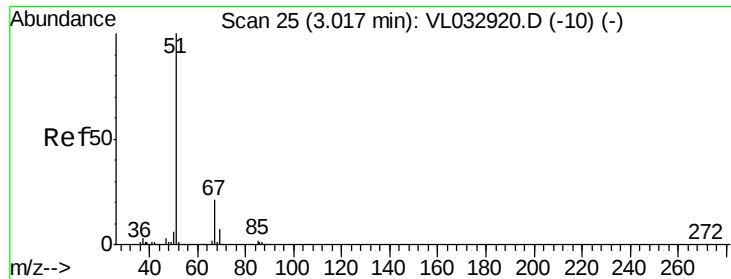
87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.977 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032920.D

Acq: 7 Dec 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

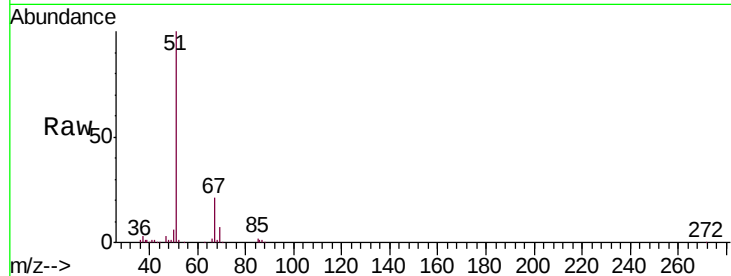
VSTDICCC010

Tgt Ion: 51 Resp: 859166

Ion Ratio Lower Upper

51 100

67 21.0 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.02

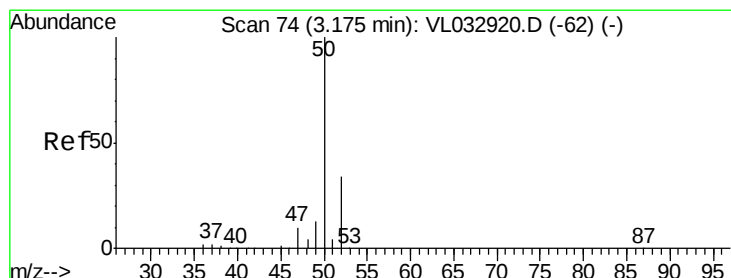
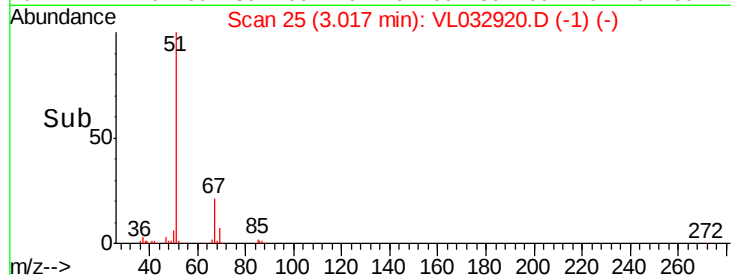
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 8.331 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032920.D

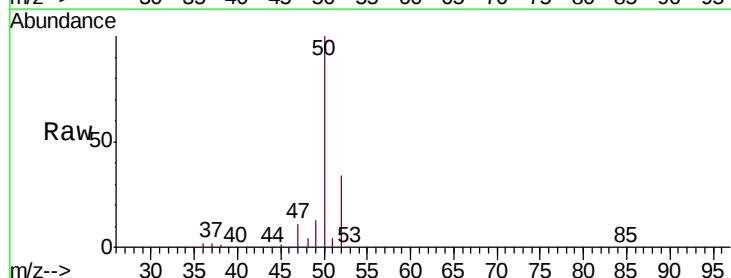
Acq: 7 Dec 2018 3:39

Tgt Ion: 50 Resp: 469988

Ion Ratio Lower Upper

50 100

52 34.1 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

400000

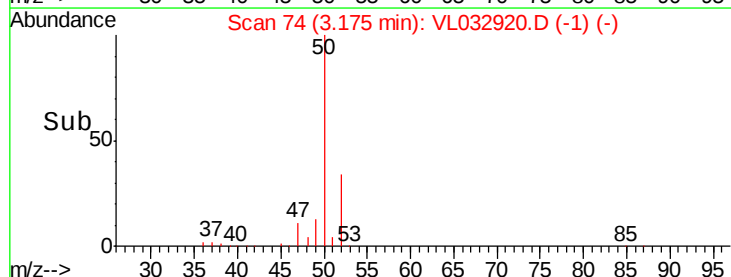
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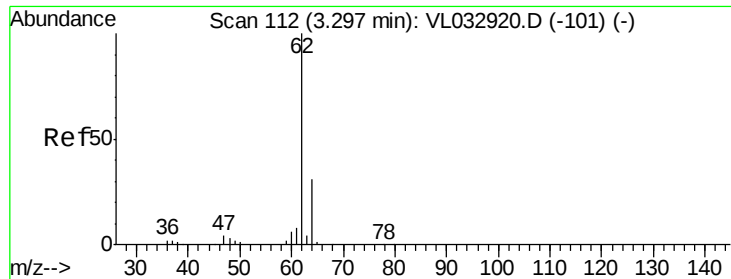
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 8.882 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032920.D

Acq: 7 Dec 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

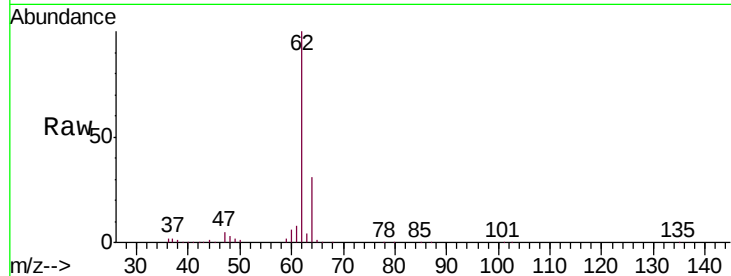
VSTDICCC010

Tgt Ion: 62 Resp: 490881

Ion Ratio Lower Upper

62 100

64 31.0 24.8 37.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.30

400000

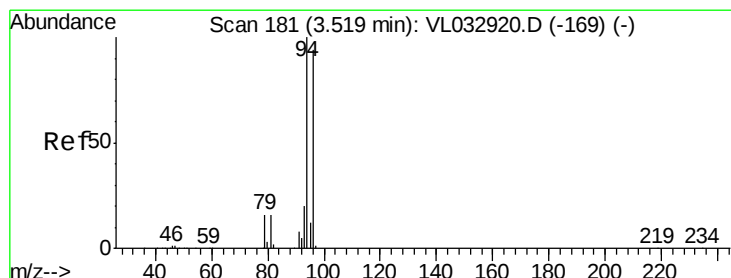
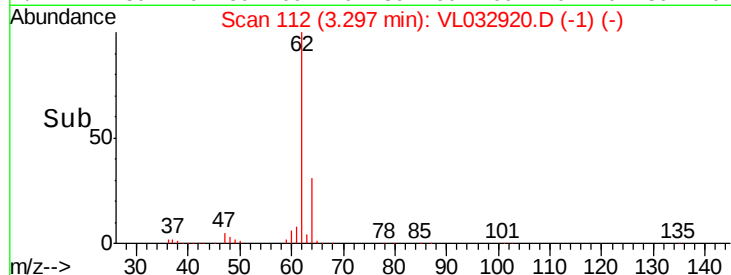
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.099 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032920.D

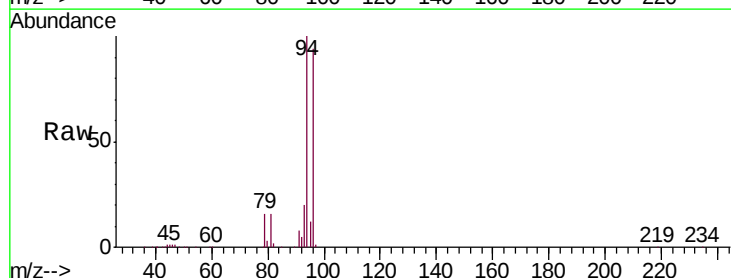
Acq: 7 Dec 2018 3:39

Tgt Ion: 94 Resp: 326015

Ion Ratio Lower Upper

94 100

96 94.4 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

250000

200000

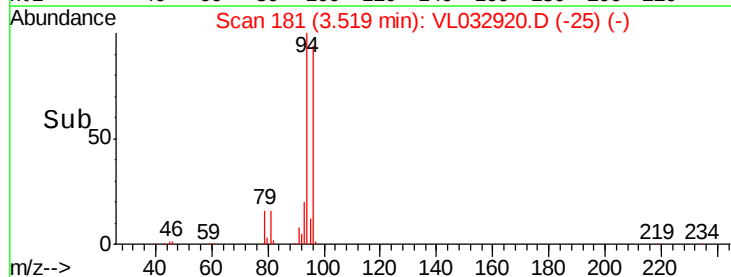
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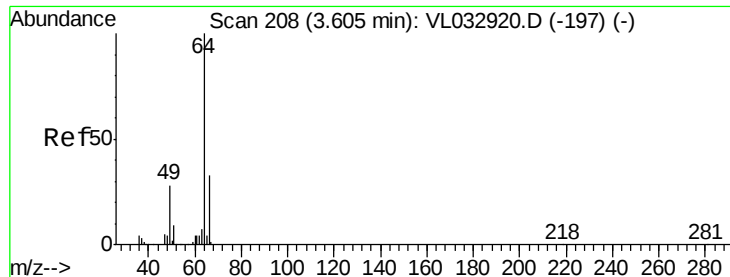
100000

50000

0

Time-->





#7

Chloroethane

Concen: 8.697 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032920.D

Acq: 7 Dec 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

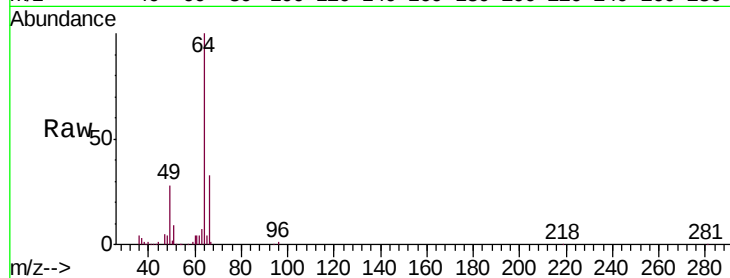
VSTDICCC010

Tgt Ion: 64 Resp: 186233

Ion Ratio Lower Upper

64 100

66 33.3 26.6 40.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.61

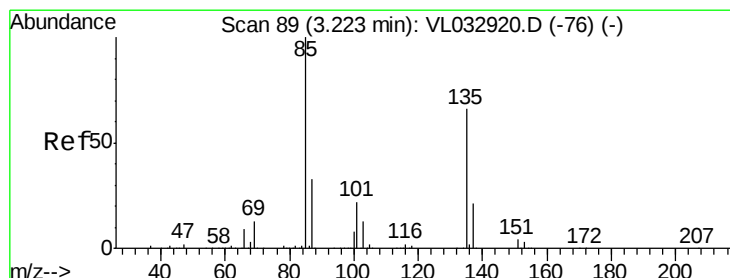
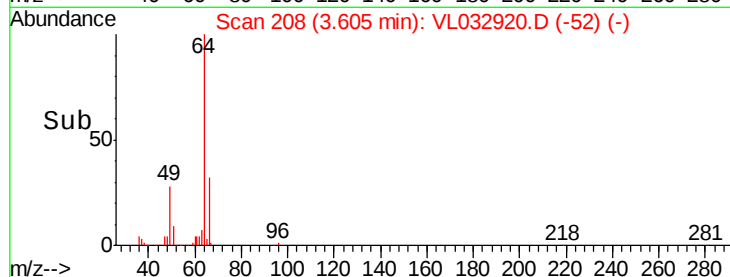
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.224 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL032920.D

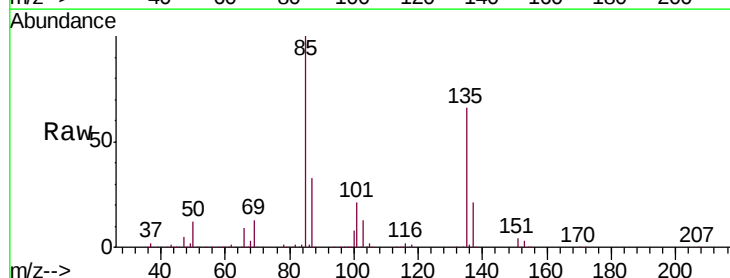
Acq: 7 Dec 2018 3:39

Tgt Ion: 85 Resp: 1263171

Ion Ratio Lower Upper

85 100

135 68.1 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

1000000

800000

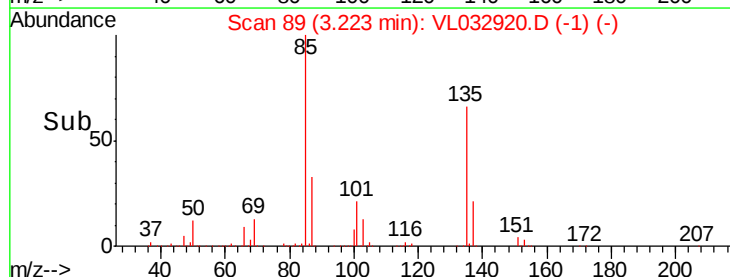
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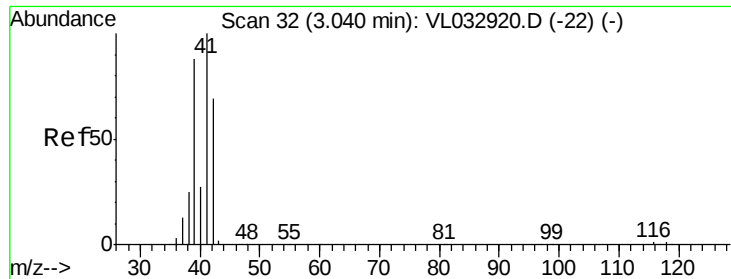
400000

200000

0

Time-->





#9

Propene

Concen: 8.854 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

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Instrument :

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ClientSampleId :

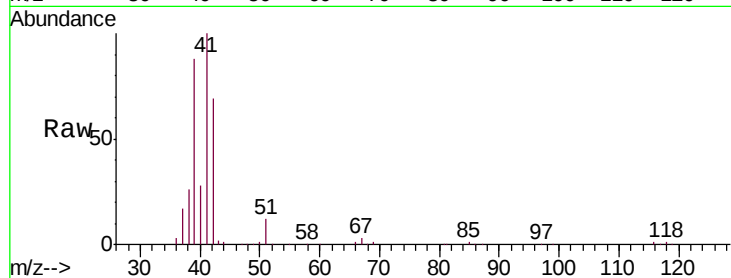
VSTDICCC010

Tgt Ion: 41 Resp: 339186

Ion Ratio Lower Upper

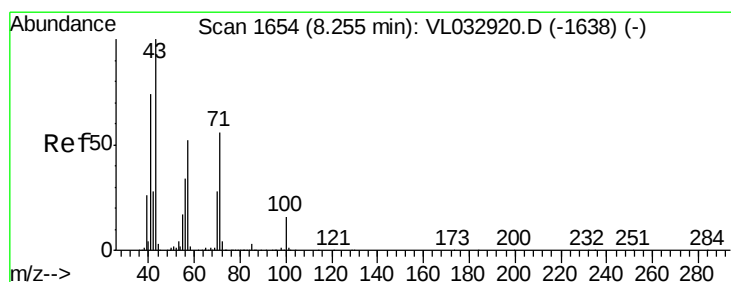
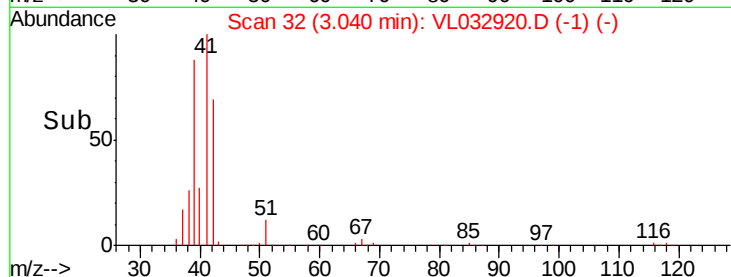
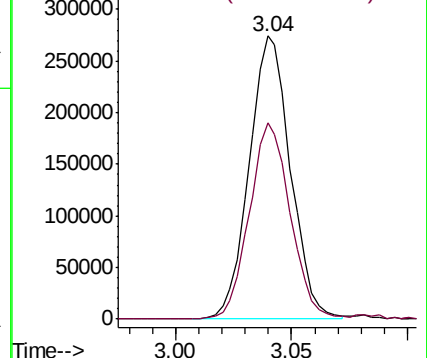
41 100

42 70.2 56.2 84.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.742 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL032920.D

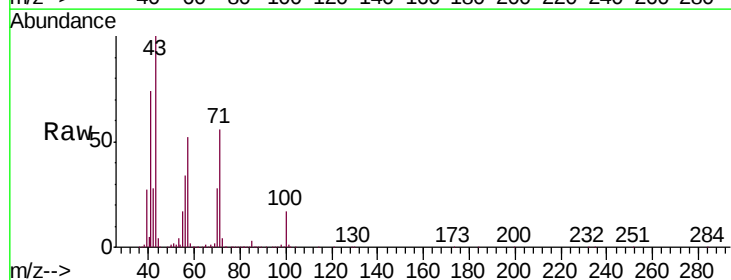
Acq: 7 Dec 2018 3:39

Tgt Ion: 43 Resp: 1419585

Ion Ratio Lower Upper

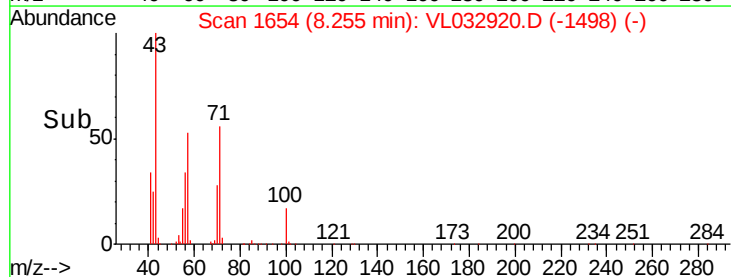
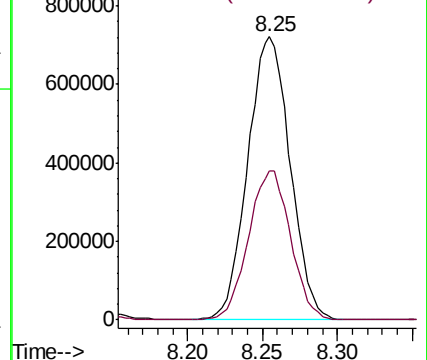
43 100

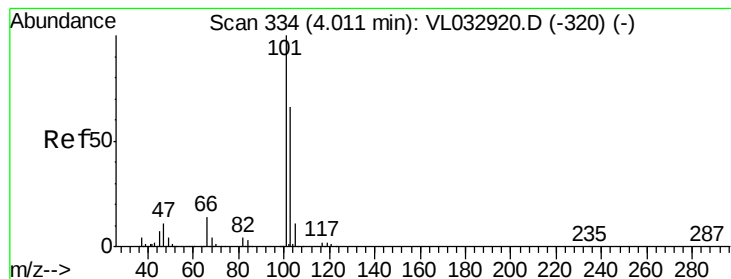
57 52.2 41.8 62.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 8.734 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

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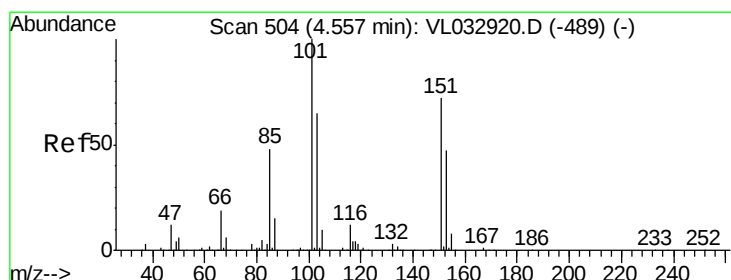
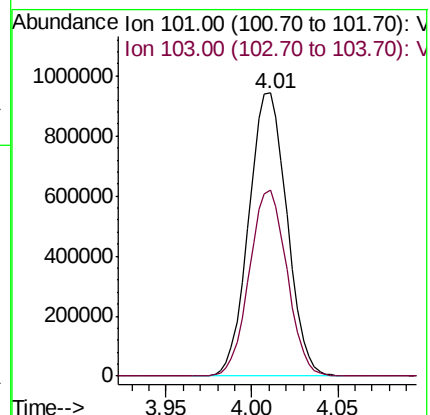
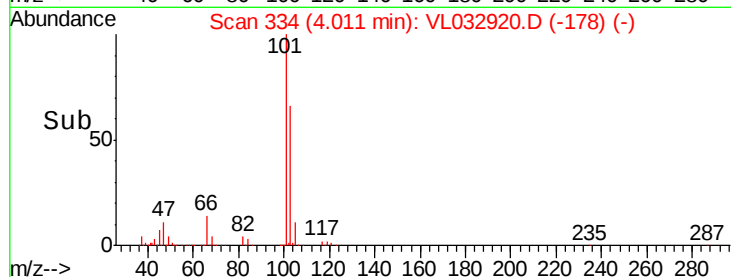
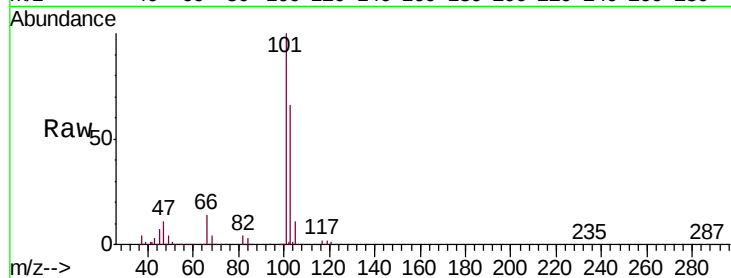
VSTDICCC010

Tgt Ion:101 Resp: 1454979

Ion Ratio Lower Upper

101 100

103 65.9 52.7 79.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.414 ppbv

RT: 4.56 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL032920.D

Acq: 7 Dec 2018 3:39

Tgt Ion:101 Resp: 1192080

Ion Ratio Lower Upper

101 100

151 74.1 59.3 88.9

