

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037826.D
 Acq On : 8 Oct 2021 10:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
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 10/14/2021 1:19:04 PM

Quant Time: Oct 09 18:15:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 09 18:15:14 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1350339	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	4000078	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3490399m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2647058	10.84	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	1700257	7.883	ppbv	98
3) Chlorodifluoromethane	2.98	51	2351347	9.062	ppbv	98
4) Chloromethane	3.13	50	878362	9.243	ppbv	96
5) Vinyl Chloride	3.25	62	855453	9.820	ppbv	99
6) Bromomethane	3.47	94	407286	8.643	ppbv	92
7) Chloroethane	3.55	64	290662	9.074	ppbv	92
8) Dichlorotetrafluoroethane	3.18	85	1965986	9.222	ppbv	98
9) Propene	3.00	41	804530	8.427	ppbv	94
10) Heptane	8.11	43	2154930	9.939	ppbv	99
11) Trichlorofluoromethane	3.94	101	1815510	9.435	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1340838	9.196	ppbv	99
13) Ethanol	3.60	45	70463m	9.025	ppbv	
14) Bromoethene	3.73	108	607143	9.470	ppbv	95
15) Acetone	3.84	43	1076708	8.882	ppbv	100
16) 1,3-Butadiene	3.32	39	844385	9.574	ppbv	99
17) tert-Butyl alcohol	4.27	59	1217804	9.755	ppbv	100
18) 1,1-Dichloroethene	4.28	96	599728	9.051	ppbv	94
19) Isopropyl Alcohol	3.95	45	724754	9.610	ppbv #	98
20) Methylene Chloride	4.33	84	525867	8.586	ppbv	98
21) Allyl Chloride	4.40	41	975440	9.083	ppbv	96
22) trans-1,2-Dichloroethene	4.87	96	618044	9.278	ppbv	99
23) Vinyl Acetate	5.06	43	1600757	8.812	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1275793	9.648	ppbv	99
25) Ethyl Acetate	5.66	43	3340795	9.821	ppbv	99
26) Hexane	5.67	57	1571834	9.384	ppbv	98
27) Carbon Disulfide	4.54	76	1516979	10.219	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	1336704	9.585	ppbv	98
29) Chloroform	5.74	83	2232280	9.324	ppbv	100
30) Cyclohexane	7.11	84	1337332	9.415	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1485820	9.771	ppbv	97
32) 1,1,1-Trichloroethane	6.50	97	2148114	9.464	ppbv	99
34) 2-Butanone	5.23	43	1461949	9.053	ppbv	100
35) Carbon Tetrachloride	7.01	117	2205470	9.708	ppbv	99
36) Benzene	6.88	78	3277372	9.593	ppbv	99
37) 1,2-Dichloroethane	6.29	62	1581055	9.828	ppbv	100
38) Trichloroethene	7.82	130	1304553	9.665	ppbv	96
39) 1,2-Dichloropropane	7.60	63	1246121	9.696	ppbv	93
40) 1,4-Dioxane	7.83	88	324254m	10.083	ppbv	
41) Tetrahydrofuran	6.03	42	758528	9.592	ppbv	99
42) Bromodichloromethane	7.78	83	2345362	9.925	ppbv	96
43) Methyl Methacrylate	8.00	69	1197919	10.734	ppbv	98

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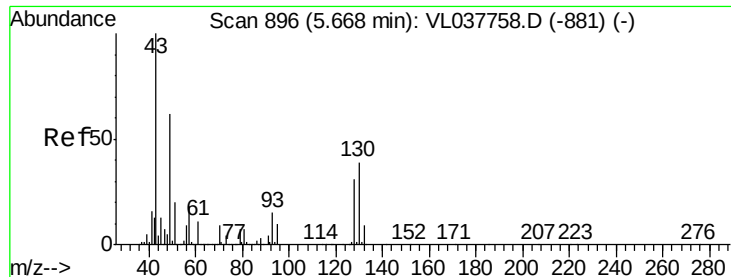
Manual Integrations
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Quant Time: Oct 09 18:15:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	5451912	9.498	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	773184	10.070	ppbv	100
46) cis-1,3-Dichloropropene	8.69	75	1061957	9.978	ppbv	97
47) 1,1,2-Trichloroethane	9.46	97	1325718	9.489	ppbv	98
48) Dibromochloromethane	10.29	129	2076079	10.424	ppbv	99
49) Bromoform	13.02	173	1748951	11.477	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	2152788	10.241	ppbv	100
51) 2-Hexanone	10.12	43	1007974	10.741	ppbv #	100
52) Tetrachloroethene	11.20	164	1226126	9.224	ppbv	97
53) Toluene	9.79	91	3807076	10.055	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1865158	9.884	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.11	131	1448673	10.026	ppbv	98
57) Chlorobenzene	12.13	112	2802528	9.788	ppbv	98
58) Ethyl Benzene	12.69	91	4938615	10.537	ppbv	97
59) m/p-Xylene	12.98	91	8354053m	20.765	ppbv	
60) o-Xylene	13.68	91	3834784	9.946	ppbv	100
61) Styrene	13.51	104	2136110	11.454	ppbv	99
62) Isopropylbenzene	14.65	105	5424249	10.086	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	2834123	9.526	ppbv	100
64) n-propylbenzene	15.55	120	1453458	10.838	ppbv	99
65) tert-Butylbenzene	16.73	119	4834850	10.216	ppbv	100
66) Benzyl Chloride	16.97	91	260520m	11.154	ppbv	
67) sec-Butylbenzene	17.28	105	6792588	10.495	ppbv	100
69) p-Isopropyltoluene	17.64	119	5748183	10.985	ppbv	100
70) n-Butylbenzene	18.53	91	5719970	11.506	ppbv	99
71) 2-Chlorotoluene	15.44	91	4060216	10.691	ppbv	99
72) 4-Ethyltoluene	15.82	105	4864688	11.112	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	4273950	10.748	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	4463222	10.688	ppbv	99
75) 1,3-Dichlorobenzene	16.98	146	2782721	10.756	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	2744318	11.119	ppbv	99
77) 1,2-Dichlorobenzene	17.80	146	2672878	10.755	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	1985046	9.782	ppbv	99
79) Naphthalene	22.17	128	3328042	13.013	ppbv	98
80) Naphthalene,2-methyl-	24.96	142	866648	12.620	ppbv	99
81) 1,2,4-Trichlorobenzene	21.90	180	1992156	12.179	ppbv	100

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



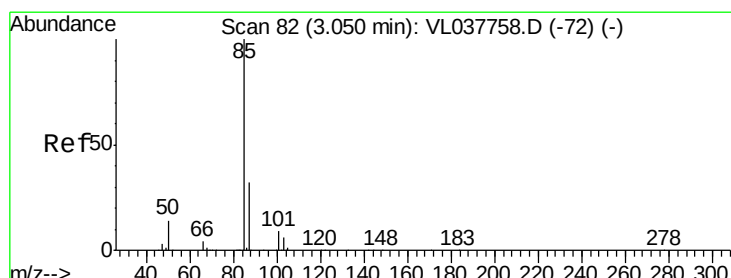
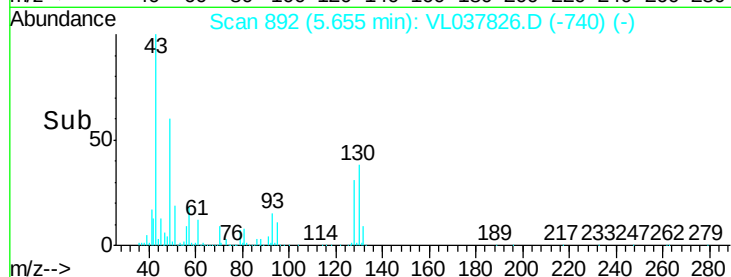
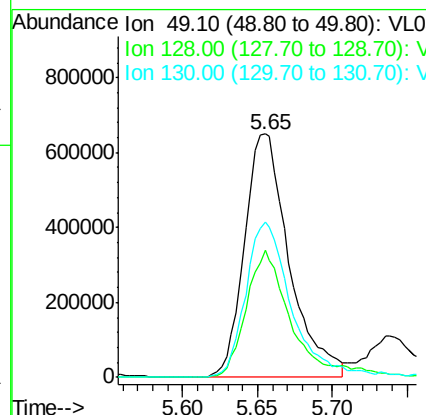
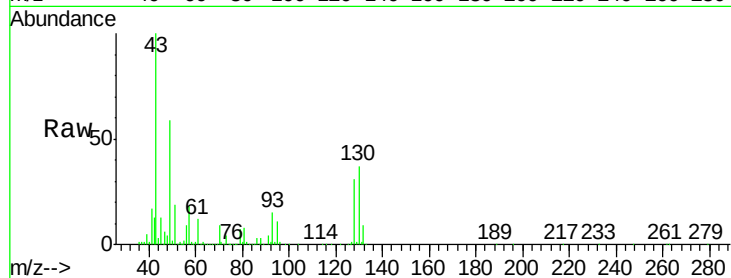
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.01 min
Lab File: VL037826.D
Acq: 8 Oct 2021 10:58

Instrument :
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ClientSampleId :
VSTDCCC010EC

Tgt Ion: 49 Resp: 1350339
Ion Ratio Lower Upper
49 100
128 53.7 27.1 81.3
130 67.0 33.2 99.6

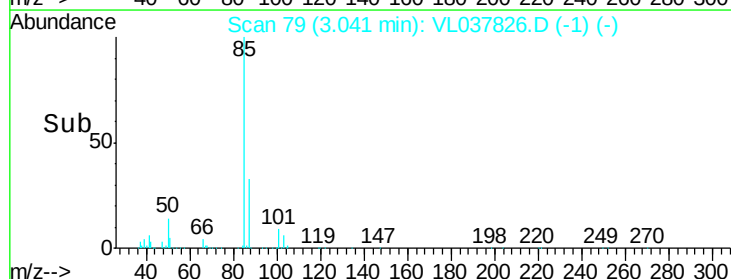
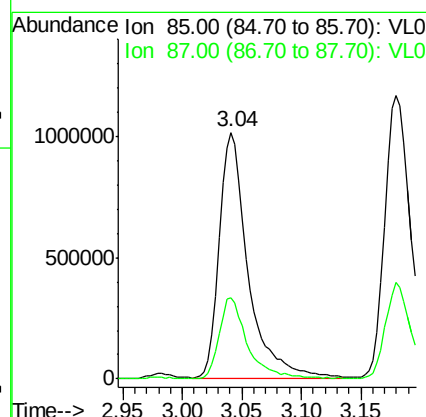
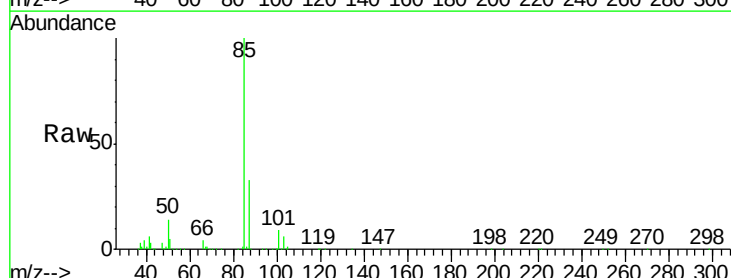
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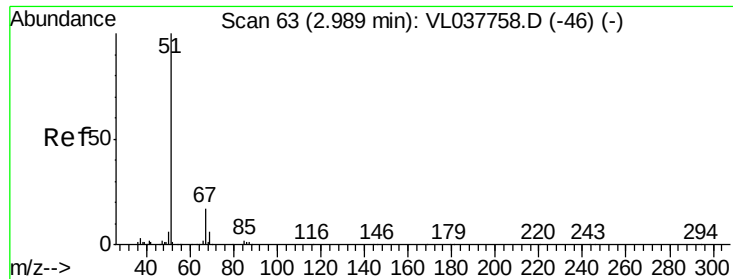
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#2
Dichlorodifluoromethane
Concen: 7.883 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL037826.D
Acq: 8 Oct 2021 10:58

Tgt Ion: 85 Resp: 1700257
Ion Ratio Lower Upper
85 100
87 33.0 25.7 38.5





#3

Chlorodifluoromethane

Concen: 9.062 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037826.D

Acq: 8 Oct 2021 10:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 51 Resp: 2351347

Ion Ratio Lower Upper

51 100

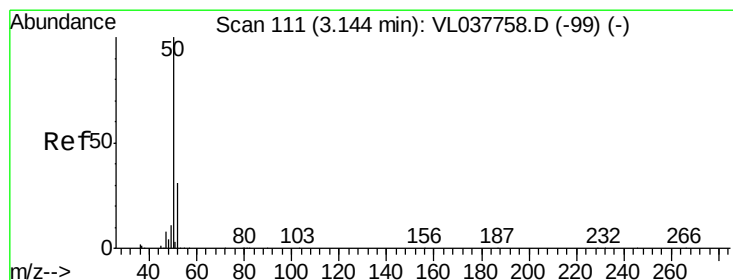
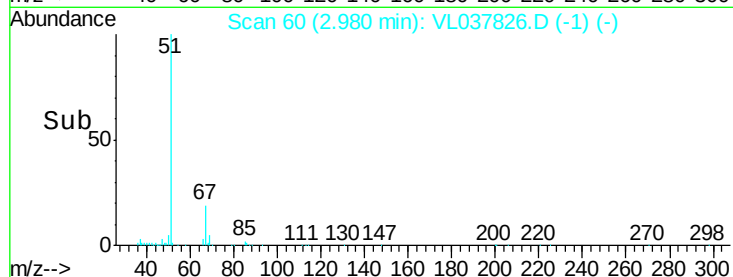
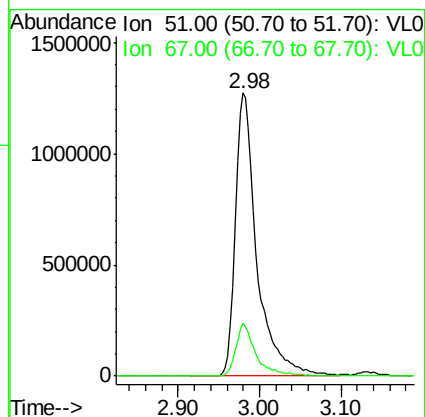
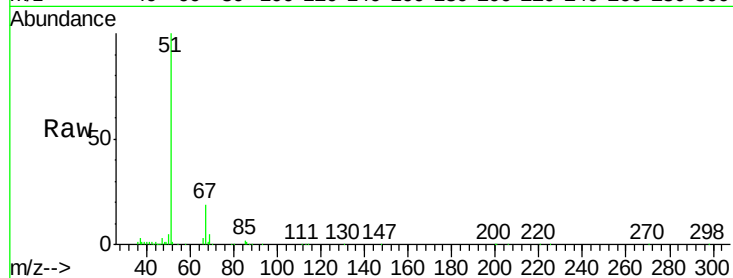
67 17.7 13.5 20.3

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#4

Chloromethane

Concen: 9.243 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037826.D

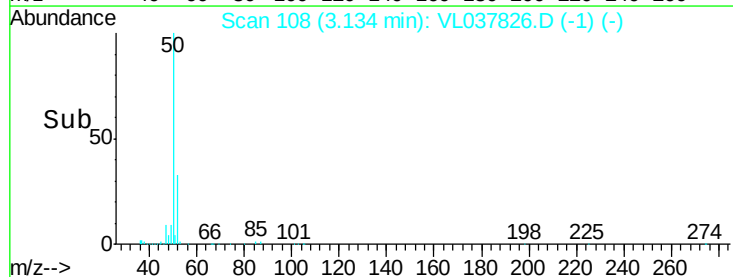
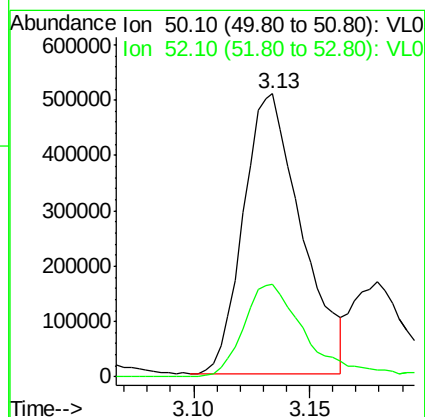
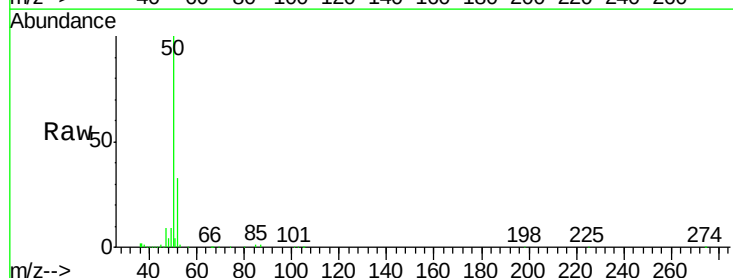
Acq: 8 Oct 2021 10:58

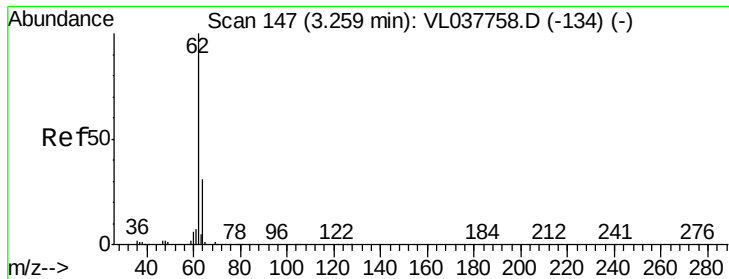
Tgt Ion: 50 Resp: 878362

Ion Ratio Lower Upper

50 100

52 32.7 24.4 36.6





#5

Vinyl Chloride

Concen: 9.820 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL037826.D

Acq: 8 Oct 2021 10:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 62 Resp: 855453

Ion Ratio Lower Upper

62 100

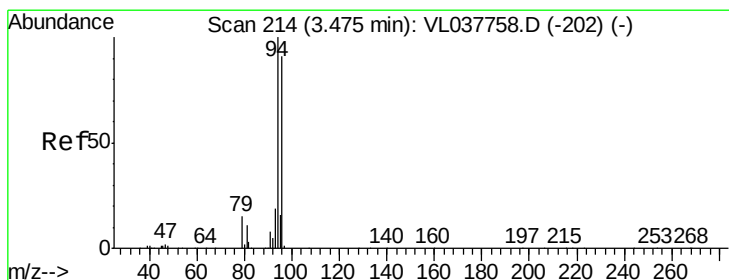
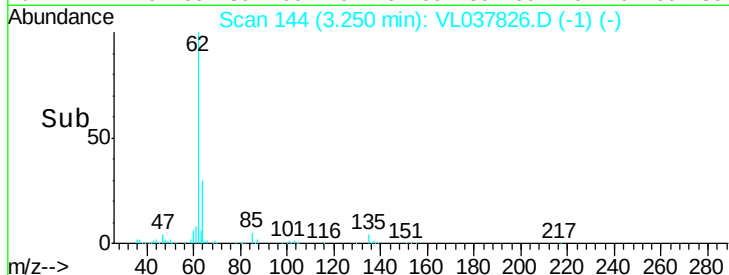
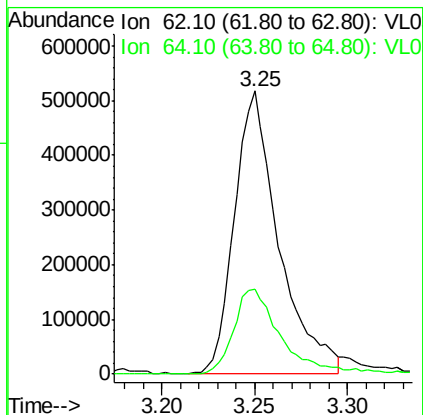
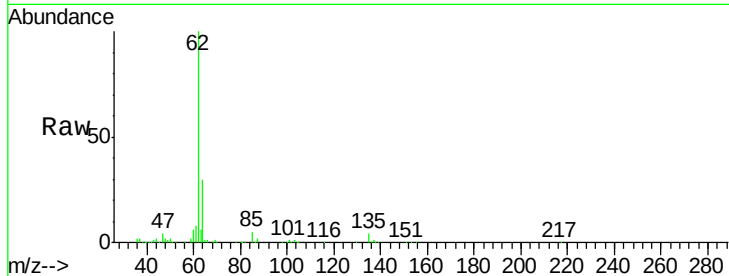
64 30.3 24.9 37.3

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#6

Bromomethane

Concen: 8.643 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL037826.D

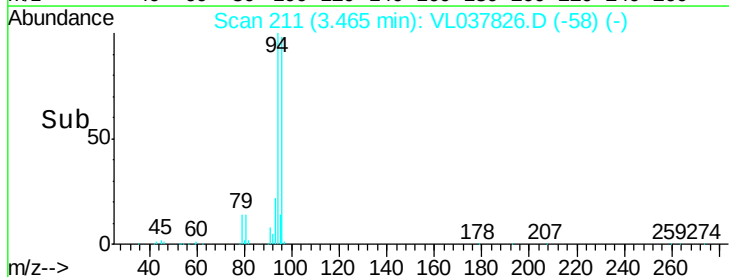
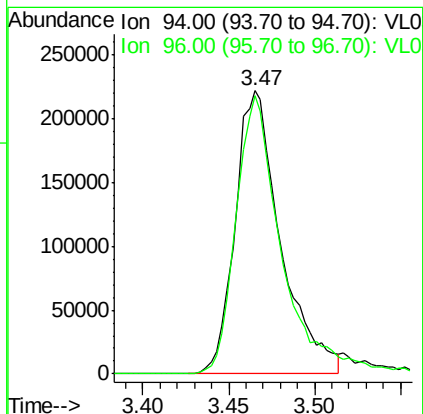
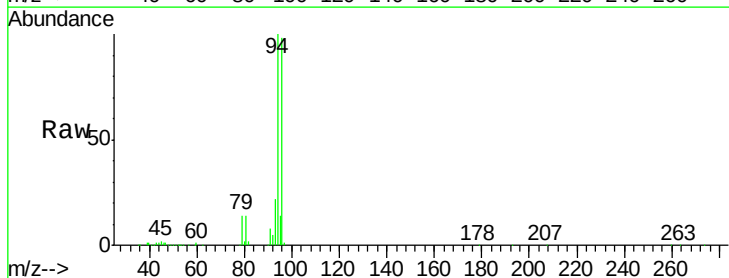
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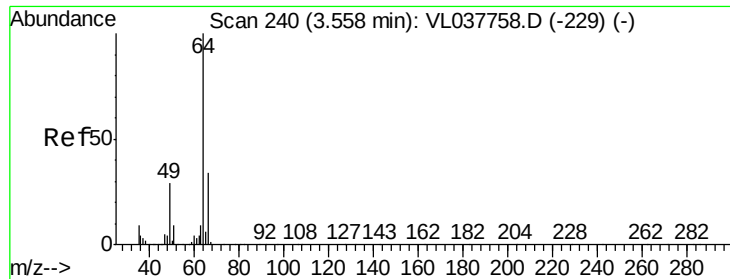
Tgt Ion: 94 Resp: 407286

Ion Ratio Lower Upper

94 100

96 98.2 72.5 108.7





#7

Chloroethane

Concen: 9.074 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL037826.D

Acq: 8 Oct 2021 10:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 64 Resp: 290662

Ion Ratio Lower Upper

64 100

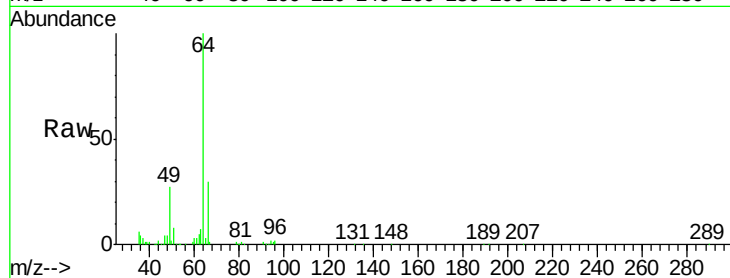
66 29.6 27.5 41.3

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

200000

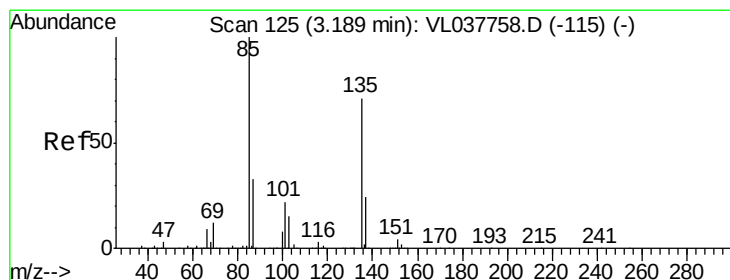
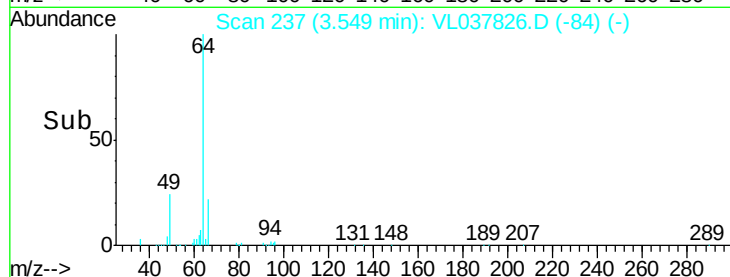
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.222 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL037826.D

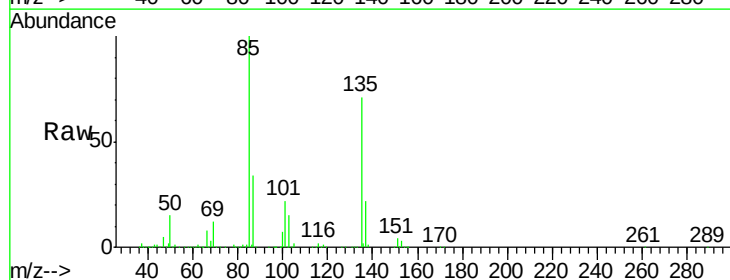
Acq: 8 Oct 2021 10:58

Tgt Ion: 85 Resp: 1965986

Ion Ratio Lower Upper

85 100

135 72.6 59.5 89.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

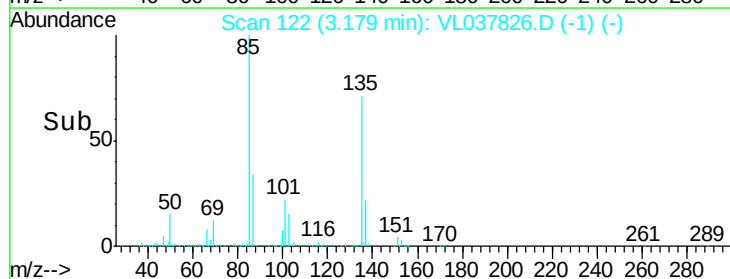
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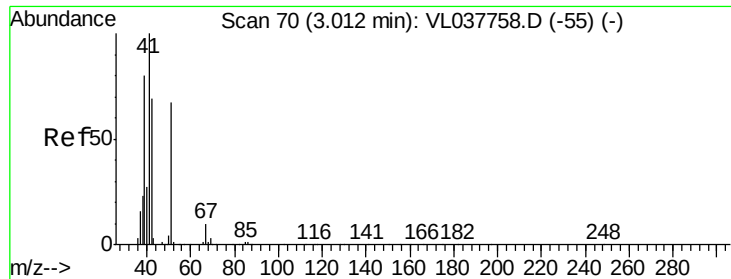
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500000

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Time-->





#9

Propene

Concen: 8.427 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037826.D

Acq: 8 Oct 2021 10:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 41 Resp: 804530

Ion Ratio Lower Upper

41 100

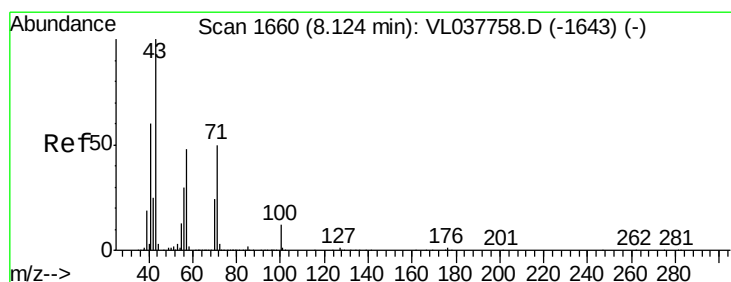
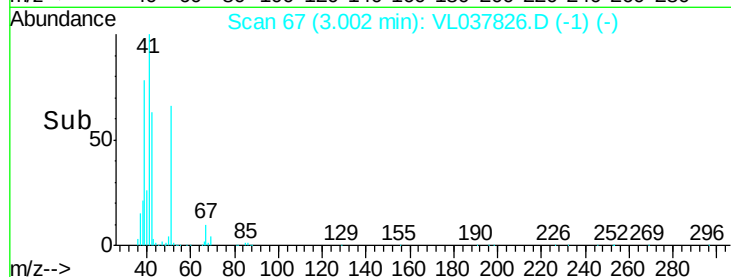
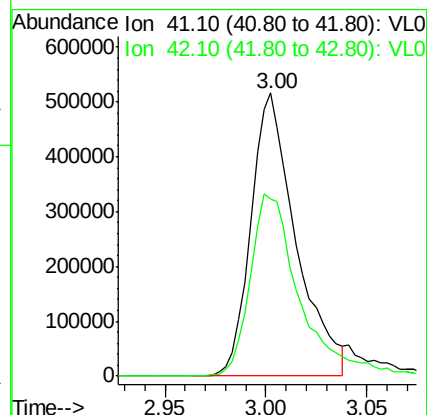
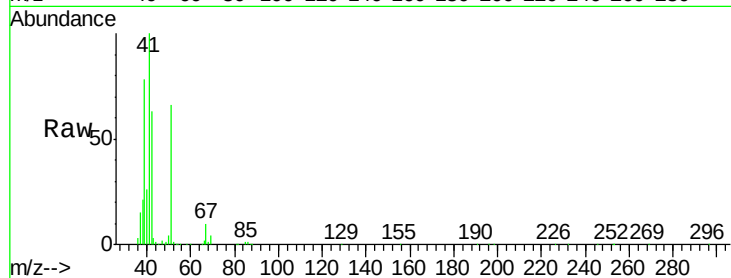
42 72.5 54.2 81.2

Manual Integrations

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#10

Heptane

Concen: 9.939 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.02 min

Lab File: VL037826.D

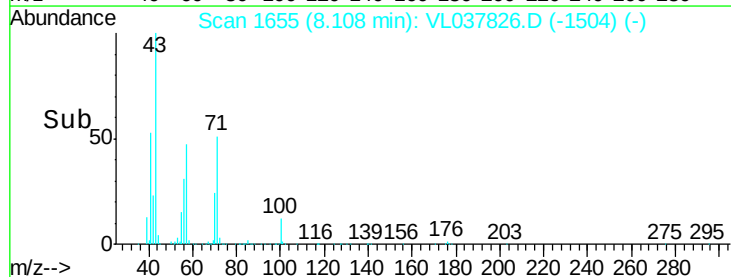
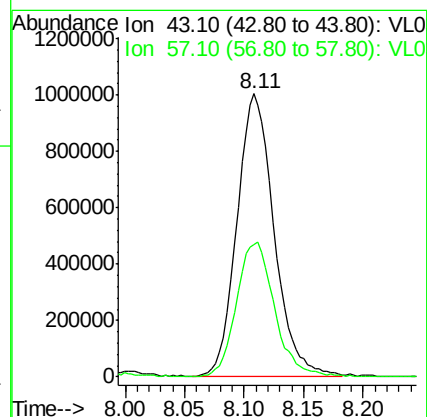
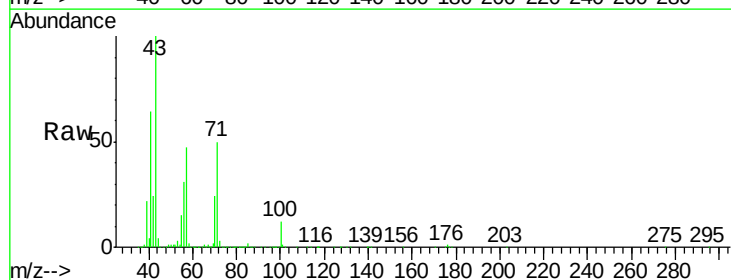
Acq: 8 Oct 2021 10:58

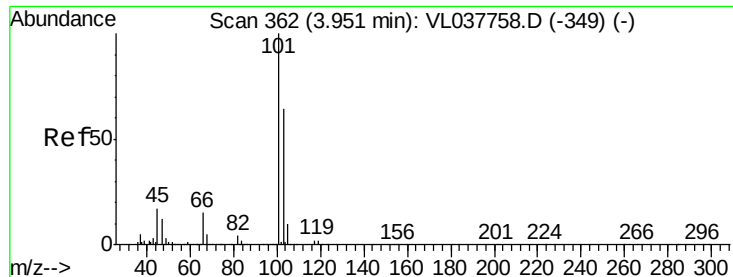
Tgt Ion: 43 Resp: 2154930

Ion Ratio Lower Upper

43 100

57 49.3 40.0 60.0





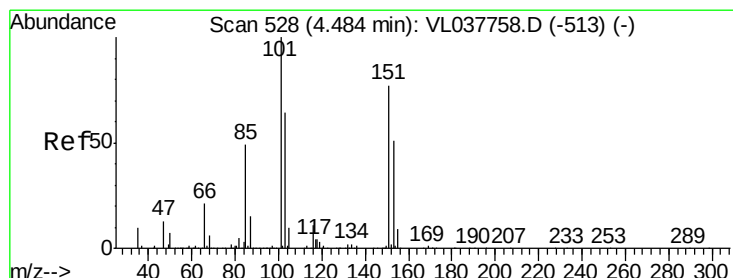
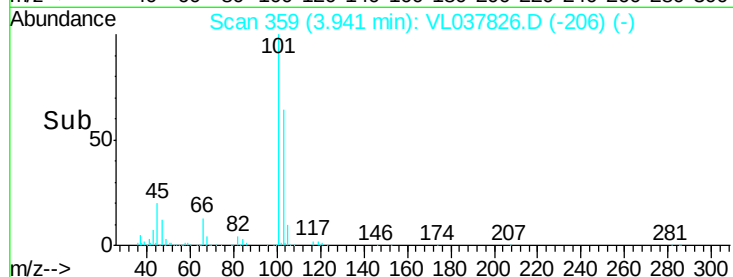
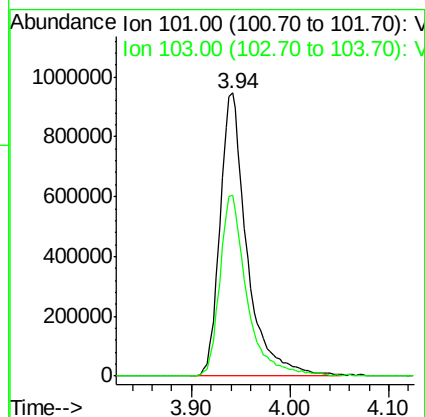
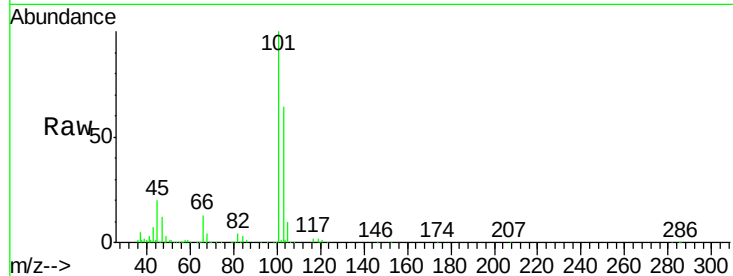
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 Trichlorofluoromethane
 Concen: 9.435 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL037826.D
 Acq: 8 Oct 2021 10:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:101 Resp: 1815510
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.5 77.3

Manual Integrations
 APPROVED

apatel
 10/14/2021 1:19:04 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.196 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. -0.01 min
 Lab File: VL037826.D
 Acq: 8 Oct 2021 10:58

Tgt Ion:101 Resp: 1340838
 Ion Ratio Lower Upper
 101 100
 151 79.4 62.9 94.3

