

Data File : VL037612.D

Acq On : 16 Sep 2021 10:03

Operator : SY/AP

Sample : VSTDICCC010

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Sep 16 10:40:25 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021

QLast Update : Tue Aug 17 02:13:47 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1699531	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4996370	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	5769383	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3490134	8.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	85.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	3310216	12.139	ppbv	98
3) Chlorodifluoromethane	2.98	51	2947290	9.056	ppbv	99
4) Chloromethane	3.13	50	1112961	9.570	ppbv	93
5) Vinyl Chloride	3.25	62	1124795	9.441	ppbv	96
6) Bromomethane	3.47	94	634676	9.725	ppbv	96
7) Chloroethane	3.55	64	374709	9.214	ppbv	93
8) Dichlorotetrafluoroethane	3.18	85	2534881	9.004	ppbv	99
9) Propene	3.00	41	1037513	8.910	ppbv	95
10) Heptane	8.11	43	2692617	10.046	ppbv	98
11) Trichlorofluoromethane	3.94	101	2314298	9.041	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1676277	8.924	ppbv	100
13) Ethanol	3.60	45	47284	4.173	ppbv #	1
14) Bromoethene	3.73	108	779638	9.143	ppbv	97
15) Acetone	3.84	43	1358112	7.852	ppbv	100
16) 1,3-Butadiene	3.32	39	1067503	9.621	ppbv	98
17) tert-Butyl alcohol	4.27	59	1524940	9.651	ppbv	100
18) 1,1-Dichloroethene	4.28	96	765026	8.966	ppbv	99
19) Isopropyl Alcohol	3.95	45	902075	9.103	ppbv #	95
20) Methylene Chloride	4.33	84	679824	7.850	ppbv	97
21) Allyl Chloride	4.40	41	1263055	8.991	ppbv	94
22) trans-1,2-Dichloroethene	4.87	96	798298	9.378	ppbv	97
23) Vinyl Acetate	5.06	43	2492263	9.776	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1594456	8.623	ppbv	98
25) Ethyl Acetate	5.66	43	4181485	9.523	ppbv	99
26) Hexane	5.67	57	2010811	9.366	ppbv	99
27) Carbon Disulfide	4.54	76	1893397	9.896	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1707345	8.281	ppbv	98
29) Chloroform	5.74	83	2838954	9.331	ppbv	100
30) Cyclohexane	7.11	84	1675386	9.366	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1863144	9.589	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2717133	9.089	ppbv	99
34) 2-Butanone	5.23	43	1871433	9.172	ppbv	97
35) Carbon Tetrachloride	7.00	117	2829790	9.583	ppbv	99
36) Benzene	6.88	78	4102366	9.767	ppbv	99
37) 1,2-Dichloroethane	6.29	62	2010073	9.661	ppbv	100
38) Trichloroethene	7.82	130	1644093	9.540	ppbv	95
39) 1,2-Dichloropropane	7.60	63	1588949	9.845	ppbv	99
40) 1,4-Dioxane	7.82	88	412825	10.441	ppbv #	100
41) Tetrahydrofuran	6.03	42	976819	9.939	ppbv	99
42) Bromodichloromethane	7.78	83	3007884	9.887	ppbv	100
43) Methyl Methacrylate	8.00	69	1499859	10.246	ppbv	100

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Instrument :
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Quant Time: Sep 16 10:40:25 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration

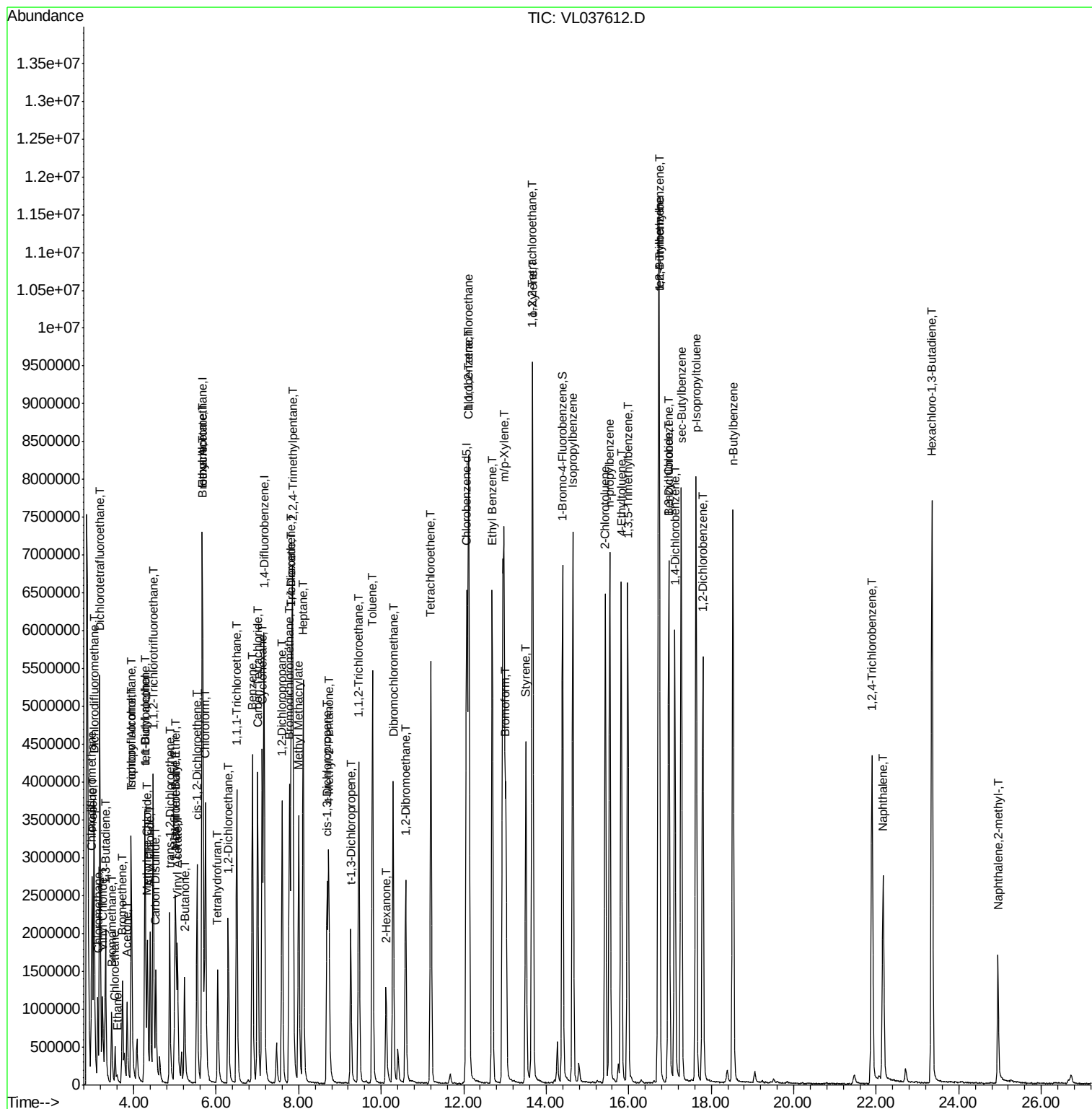
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	6840392	9.677	ppbv	100
45) t-1,3-Dichloropropene	9.26	75	1310869	11.895	ppbv	96
46) cis-1,3-Dichloropropene	8.69	75	1694224	11.021	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1714606	9.832	ppbv	99
48) Dibromochloromethane	10.29	129	2688532	10.713	ppbv	98
49) Bromoform	13.02	173	2295813	11.606	ppbv	96
50) 4-Methyl-2-Pentanone	8.73	43	2676370	10.055	ppbv	99
51) 2-Hexanone	10.12	43	1262879	10.315	ppbv #	97
52) Tetrachloroethene	11.20	164	1538036	8.936	ppbv	98
53) Toluene	9.79	91	4792119	9.992	ppbv	100
54) 1,2-Dibromoethane	10.59	107	2449001	10.059	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.11	131	1868475	7.772	ppbv	93
57) Chlorobenzene	12.13	112	3622441	7.566	ppbv	98
58) Ethyl Benzene	12.69	91	6268831	7.830	ppbv	99
59) m/p-Xylene	12.98	91	4996153	7.198	ppbv #	25
60) o-Xylene	13.67	91	4912419	7.583	ppbv	98
61) Styrene	13.51	104	2842909	8.448	ppbv	98
62) Isopropylbenzene	14.65	105	6798048	7.435	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.65	83	3499174	7.268	ppbv	99
64) n-propylbenzene	15.54	120	1864628	8.014	ppbv	86
65) tert-Butylbenzene	16.73	119	5926380	7.117	ppbv	99
66) Benzyl Chloride	16.97	91	369337	9.805	ppbv	97
67) sec-Butylbenzene	17.27	105	8190676	7.040	ppbv	99
69) p-Isopropyltoluene	17.63	119	6907349	7.285	ppbv	100
70) n-Butylbenzene	18.53	91	6716891	7.413	ppbv	100
71) 2-Chlorotoluene	15.43	91	5139783	7.666	ppbv	98
72) 4-Ethyltoluene	15.82	105	5929382	7.695	ppbv	100
73) 1,3,5-Trimethylbenzene	15.98	105	5342503	7.449	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	5428804	7.123	ppbv #	90
75) 1,3-Dichlorobenzene	16.98	146	3405660	7.423	ppbv	98
76) 1,4-Dichlorobenzene	17.12	146	3351099	7.251	ppbv	99
77) 1,2-Dichlorobenzene	17.80	146	3184437	7.049	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	2299643	6.122	ppbv	99
79) Naphthalene	22.17	128	3829896	7.509	ppbv	98
80) Naphthalene,2-methyl-	24.95	142	1050322	7.392	ppbv	93
81) 1,2,4-Trichlorobenzene	21.90	180	1145093	3.578	ppbv #	14

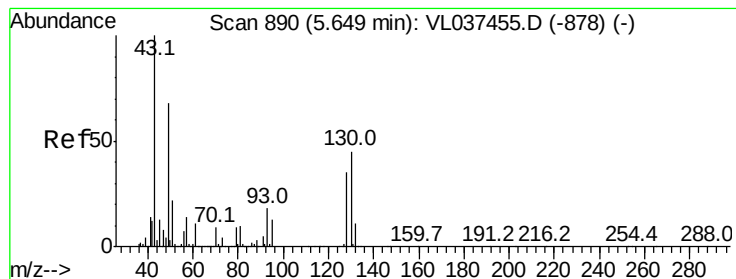
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

ClientSampleId :

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037612.D

Acq: 16 Sep 2021 10:03

Instrument :
MSVOA_L
ClientSampleId :

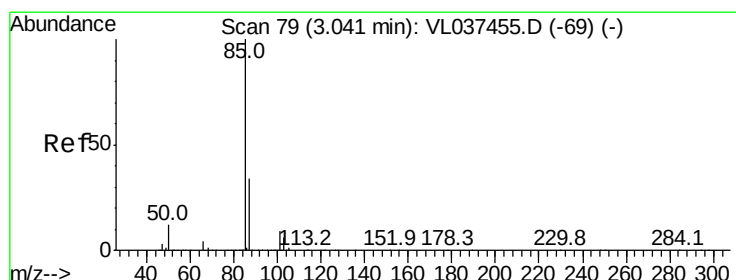
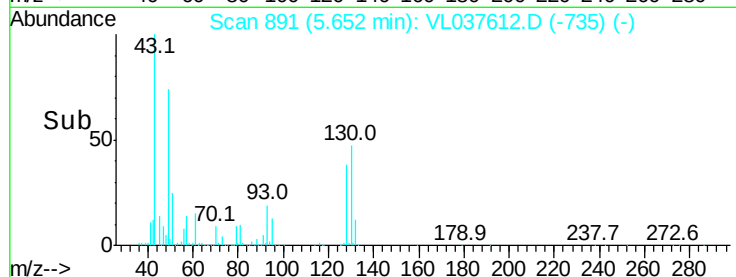
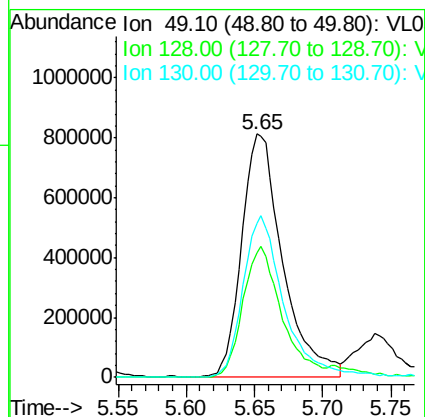
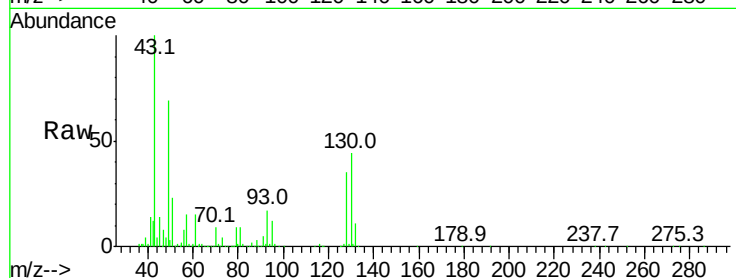
Tgt Ion: 49 Resp: 1699531

Ion Ratio Lower Upper

49 100

128 55.7 27.5 82.4

130 67.8 34.0 101.8



#2

Dichlorodifluoromethane

Concen: 12.139 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL037612.D

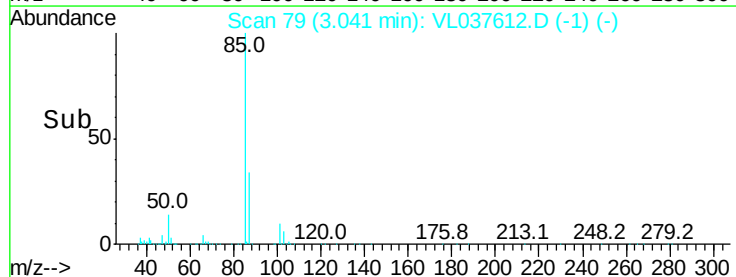
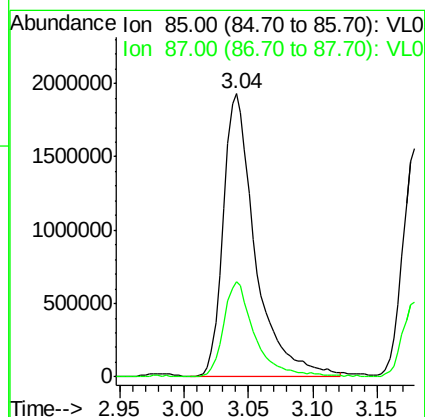
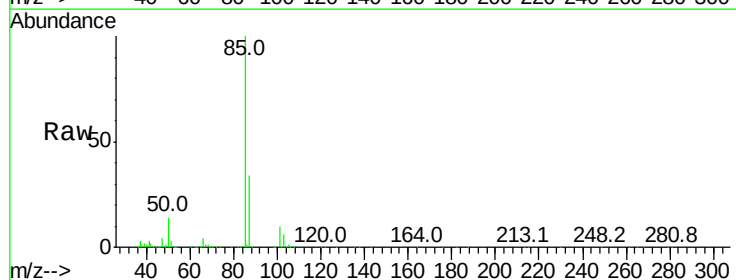
Acq: 16 Sep 2021 10:03

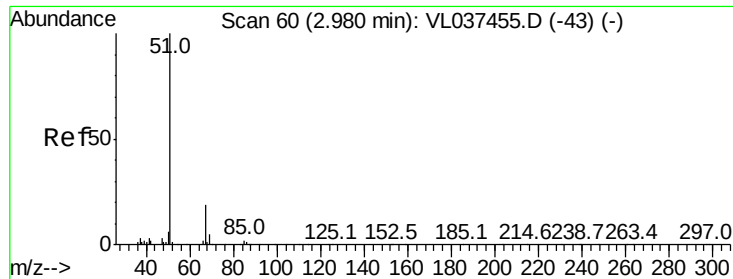
Tgt Ion: 85 Resp: 3310216

Ion Ratio Lower Upper

85 100

87 33.5 27.6 41.4





#3

Chlorodifluoromethane

Concen: 9.056 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL037612.D

Acq: 16 Sep 2021 10:03

Instrument :

MSVOA_L

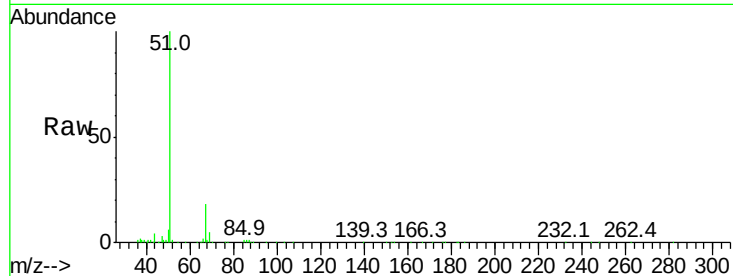
ClientSampleId :

Tgt Ion: 51 Resp: 2947290

Ion Ratio Lower Upper

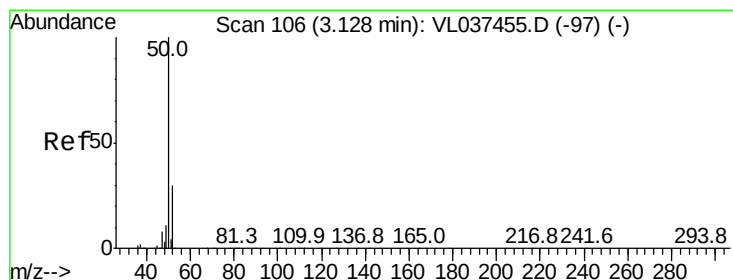
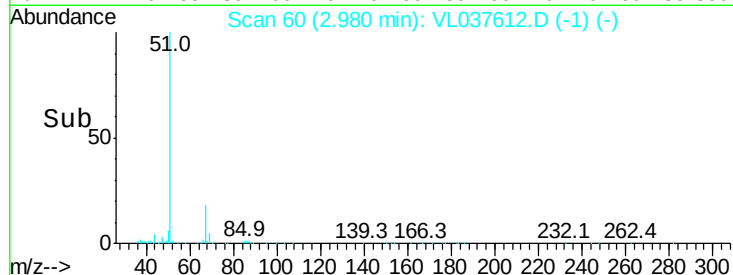
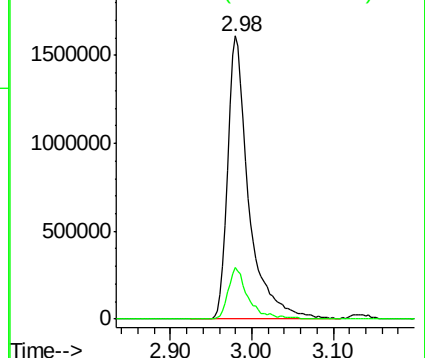
51 100

67 17.5 14.2 21.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.570 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037612.D

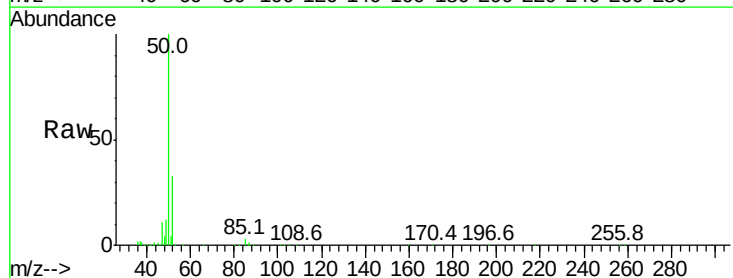
Acq: 16 Sep 2021 10:03

Tgt Ion: 50 Resp: 1112961

Ion Ratio Lower Upper

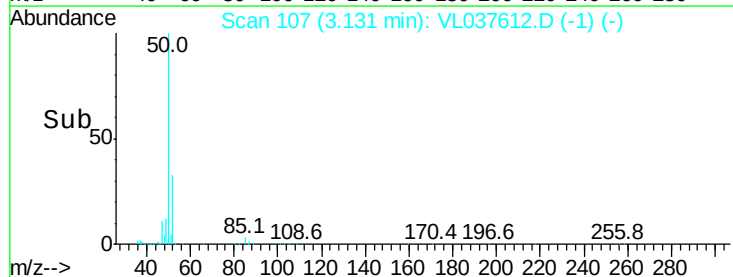
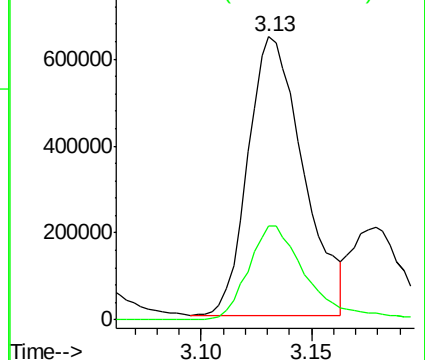
50 100

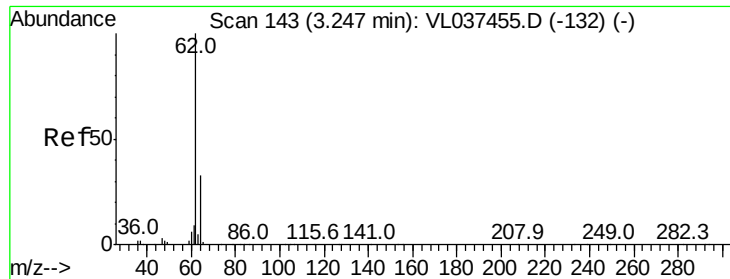
52 33.9 24.0 36.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.441 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL037612.D

Acq: 16 Sep 2021 10:03

Instrument :

MSVOA_L

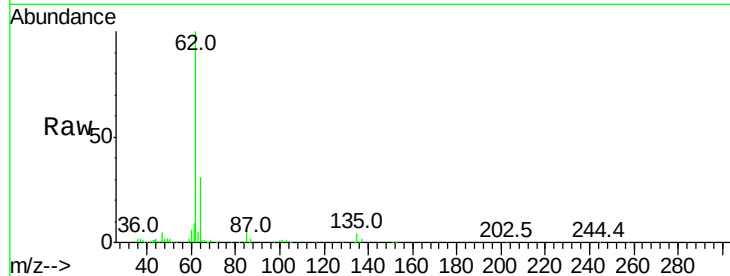
ClientSampleId :

Tgt Ion: 62 Resp: 1124795

Ion Ratio Lower Upper

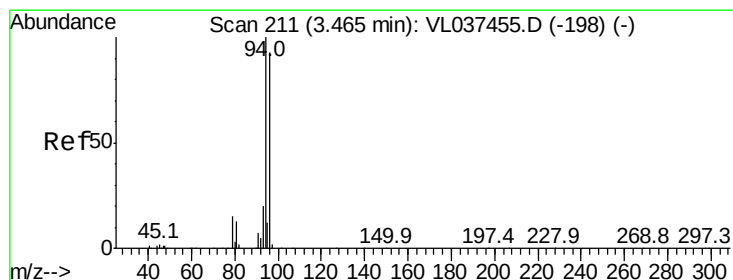
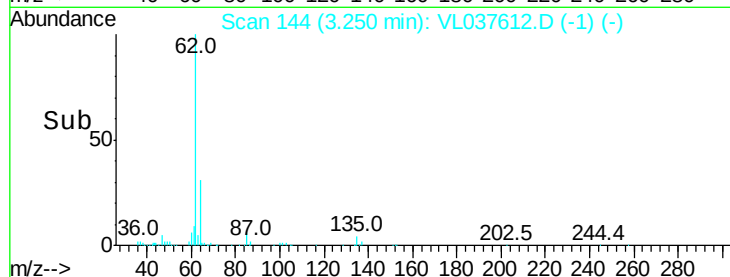
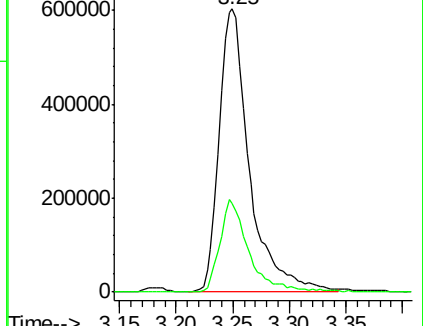
62 100

64 31.1 26.5 39.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.725 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL037612.D

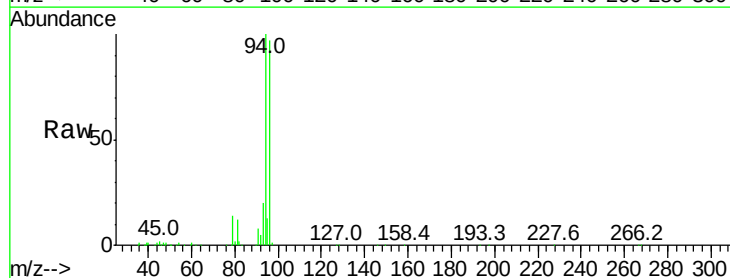
Acq: 16 Sep 2021 10:03

Tgt Ion: 94 Resp: 634676

Ion Ratio Lower Upper

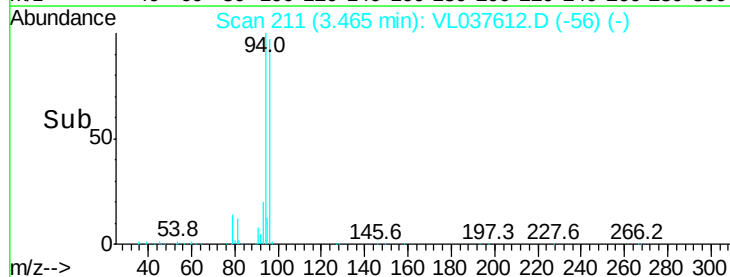
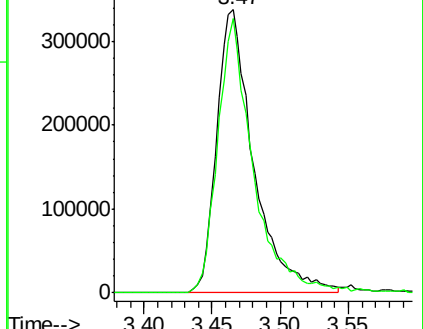
94 100

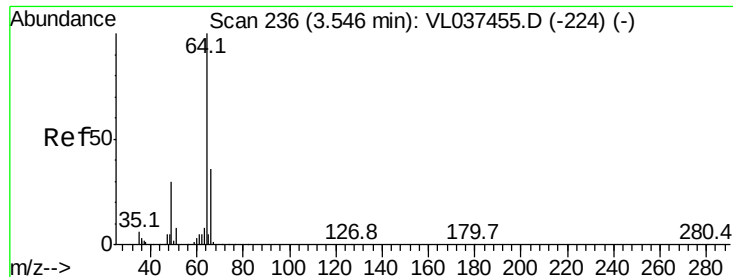
96 96.6 74.5 111.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.214 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL037612.D

Acq: 16 Sep 2021 10:03

Instrument :

MSVOA_L

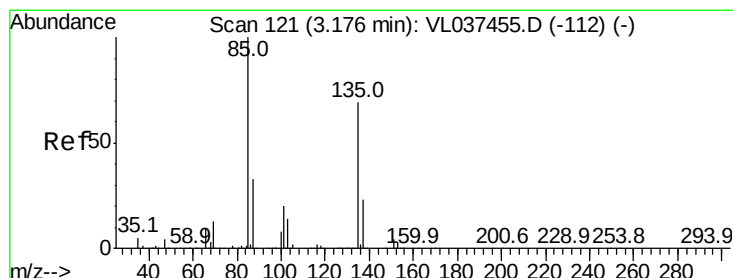
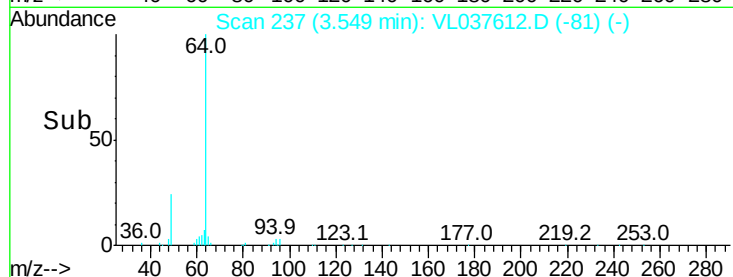
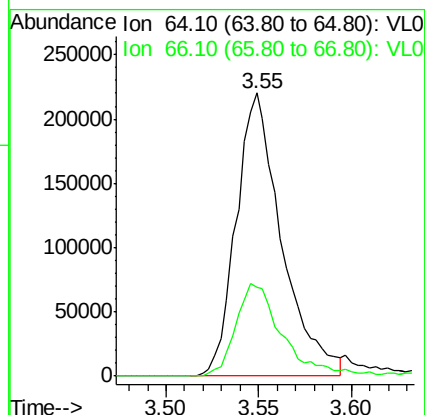
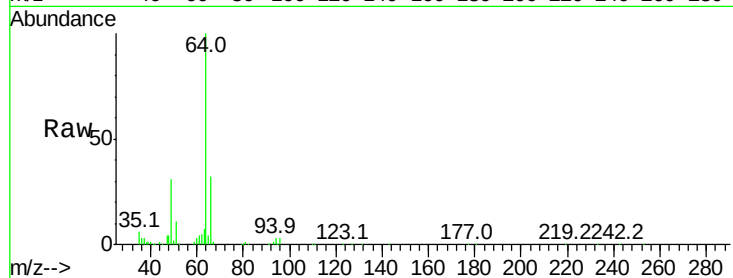
ClientSampleId :

Tgt Ion: 64 Resp: 374709

Ion Ratio Lower Upper

64 100

66 31.6 28.6 43.0



#8

Dichlorotetrafluoroethane

Concen: 9.004 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL037612.D

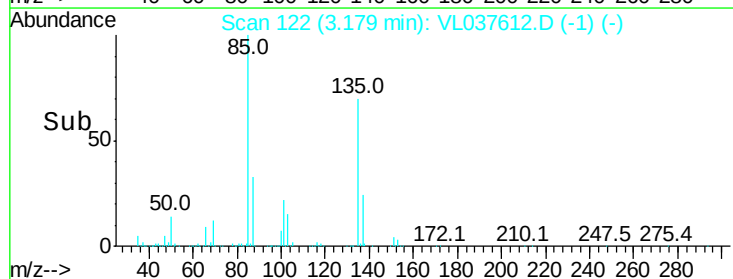
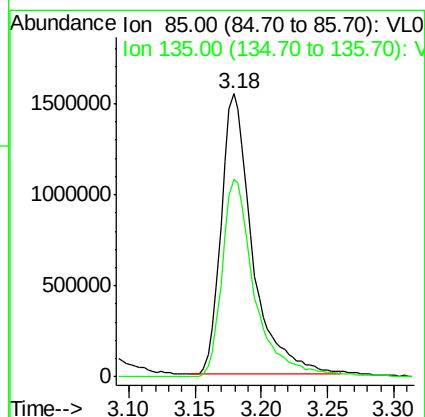
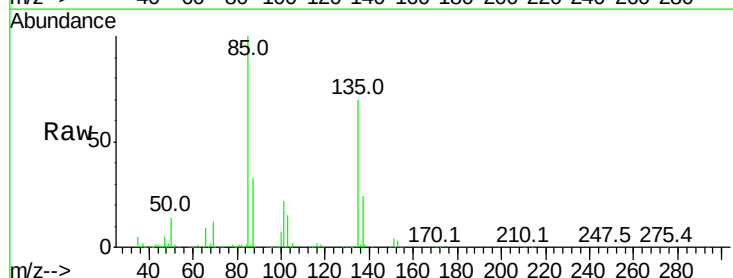
Acq: 16 Sep 2021 10:03

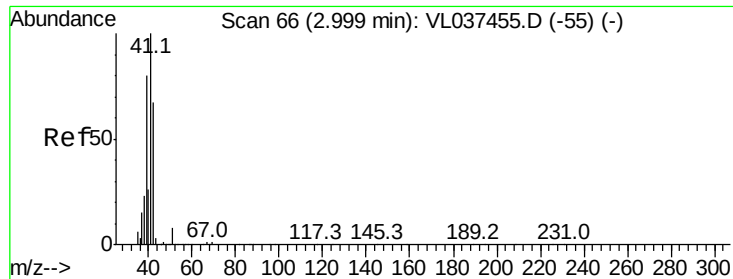
Tgt Ion: 85 Resp: 2534881

Ion Ratio Lower Upper

85 100

135 74.1 58.8 88.2





#9

Propene

Concen: 8.910 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL037612.D

Acq: 16 Sep 2021 10:03

Instrument :

MSVOA_L

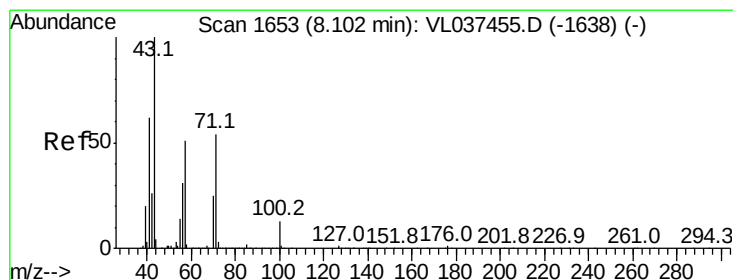
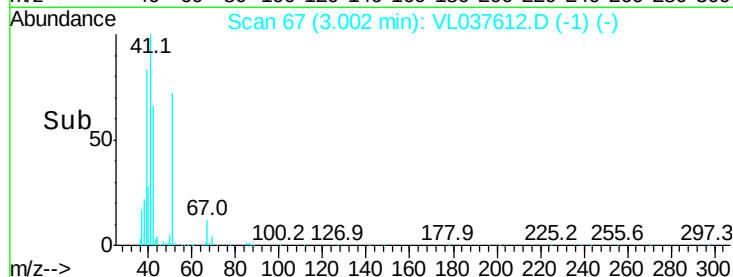
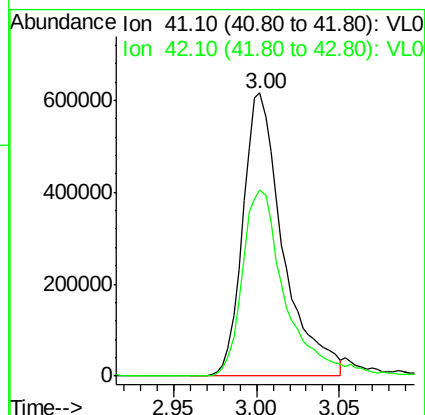
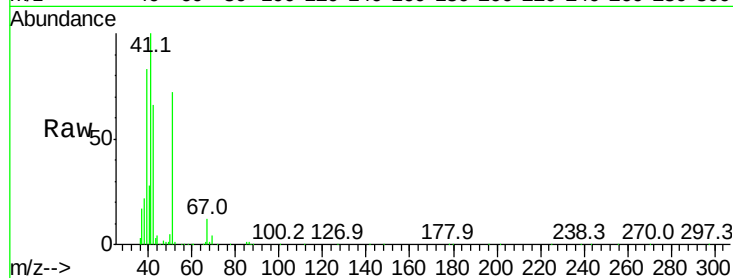
ClientSampleId :

Tgt Ion: 41 Resp: 1037513

Ion Ratio Lower Upper

41 100

42 71.5 53.7 80.5



#10

Heptane

Concen: 10.046 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VL037612.D

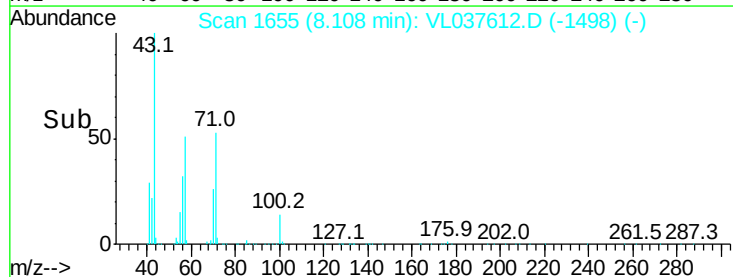
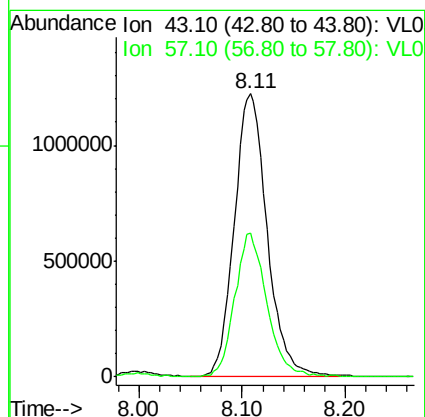
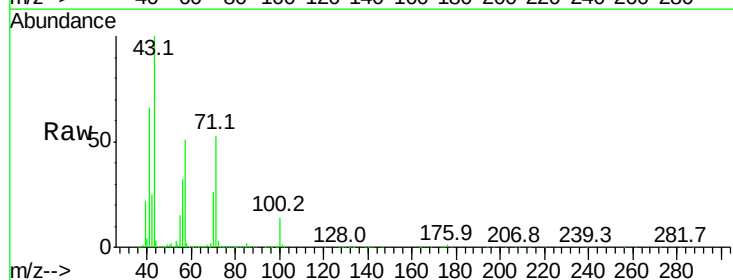
Acq: 16 Sep 2021 10:03

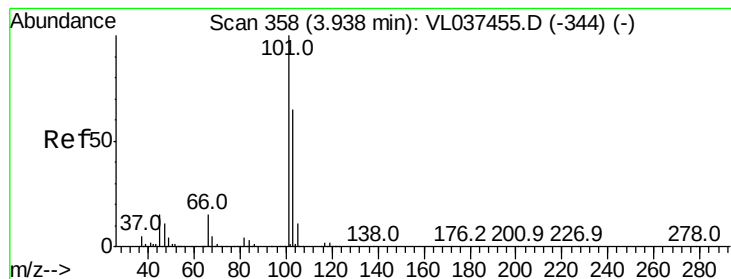
Tgt Ion: 43 Resp: 2692617

Ion Ratio Lower Upper

43 100

57 50.1 41.0 61.6





#11

Trichlorofluoromethane

Concen: 9.041 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL037612.D

Acq: 16 Sep 2021 10:03

Instrument :

MSVOA_L

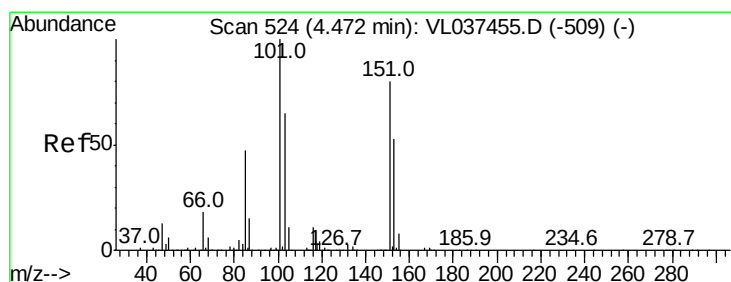
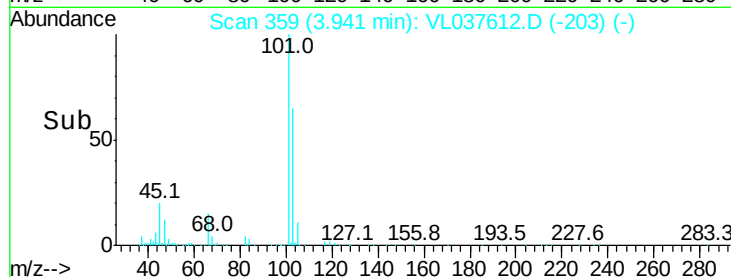
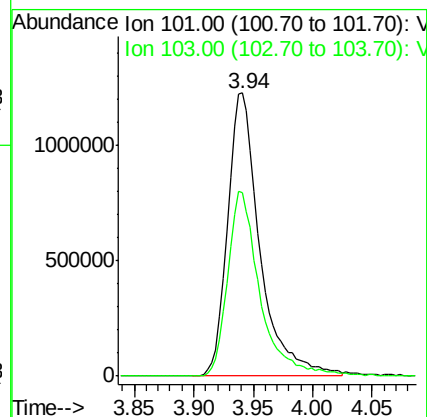
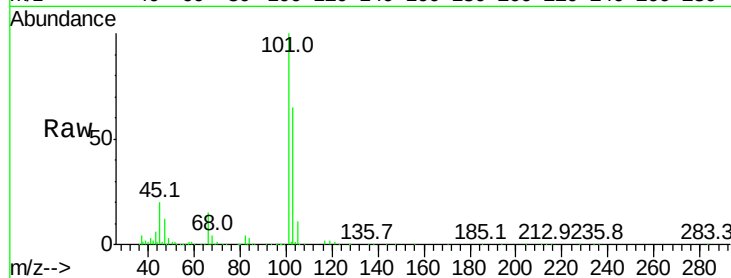
ClientSampled :

Tgt Ion:101 Resp: 2314298

Ion Ratio Lower Upper

101 100

103 64.9 51.8 77.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.924 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL037612.D

Acq: 16 Sep 2021 10:03

Tgt Ion:101 Resp: 1676277

Ion Ratio Lower Upper

101 100

151 79.4 63.7 95.5

