

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL121624

Review By	Mahesh Dadoda	Review On	12/18/2024 8:44:47 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:48:10 AM		
SubDirectory	VL121624	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2556			
Initial Calibration Stds		AP2560,AP2561,AP2562			
CCC		AP2560,MDL,AP2561,AP2562			
Internal Standard/PEM		AP2556			
ICV/I.BLK		AP2558			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041750.D	16 Dec 2024 12:02	SY/MD	Ok
2	VSTDICC0.5	VL041751.D	16 Dec 2024 12:59	SY/MD	Not Ok
3	VSTDICCC010	VL041752.D	16 Dec 2024 13:30	SY/MD	Ok,M
4	VSTDICC002	VL041753.D	16 Dec 2024 14:03	SY/MD	Ok,M
5	VSTDICC001	VL041754.D	16 Dec 2024 14:34	SY/MD	Ok,M
6	VSTDICC0.5	VL041755.D	16 Dec 2024 15:05	SY/MD	Ok,M
7	VSTDICC0.1	VL041756.D	16 Dec 2024 15:37	SY/MD	Ok,M
8	VSTDICC0.03	VL041757.D	16 Dec 2024 16:08	SY/MD	Ok,M
9	VSTDICC015	VL041758.D	16 Dec 2024 16:41	SY/MD	Ok,M
10	VSTDICV010	VL041759.D	16 Dec 2024 18:59	SY/MD	Ok,M
11	VL1216ABL01	VL041760.D	16 Dec 2024 20:20	SY/MD	Ok
12	VL1216ABL02	VL041761.D	16 Dec 2024 20:51	SY/MD	Ok
13	VL1216ABL03	VL041762.D	16 Dec 2024 21:21	SY/MD	Ok
14	MDL 0.4	VL041763.D	16 Dec 2024 21:52	SY/MD	Ok,M
15	MDL 0.4	VL041764.D	16 Dec 2024 22:23	SY/MD	Ok,M
16	MDL 0.4	VL041765.D	16 Dec 2024 22:54	SY/MD	Ok,M
17	MDL 0.03	VL041766.D	16 Dec 2024 23:24	SY/MD	Ok,M
18	MDL 0.03	VL041767.D	16 Dec 2024 23:55	SY/MD	Ok,M
19	VL1216ABS01	VL041768.D	17 Dec 2024 00:57	SY/MD	Ok,M
20	VSTDCCC010	VL041769.D	17 Dec 2024 07:59	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL121724

Review By	Maresh Dadoda	Review On	12/18/2024 8:41:19 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:53:09 AM		
SubDirectory	VL121724	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2556			
Initial Calibration Stds		AP2560,AP2561,AP2562			
CCC		AP2560,MDL,AP2561,AP2562			
Internal Standard/PEM		AP2556			
ICV/I.BLK		AP2558			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041770.D	17 Dec 2024 08:44	SY/MD	Ok
2	VSTDCCC010	VL041771.D	17 Dec 2024 09:49	SY/MD	Ok,M
3	VL1217ABL01	VL041772.D	17 Dec 2024 10:36	SY/MD	Ok
4	VL1217ABL02	VL041773.D	17 Dec 2024 11:07	SY/MD	Ok
5	VL1217ABL03	VL041774.D	17 Dec 2024 11:38	SY/MD	Ok
6	MDL 0.4	VL041775.D	17 Dec 2024 13:10	SY/MD	Ok,M
7	MDL 0.4	VL041776.D	17 Dec 2024 13:41	SY/MD	Ok,M
8	MDL 0.4	VL041777.D	17 Dec 2024 14:13	SY/MD	Ok,M
9	MDL 0.03	VL041778.D	17 Dec 2024 14:44	SY/MD	Ok,M
10	MDL 0.03	VL041779.D	17 Dec 2024 15:15	SY/MD	Ok,M
11	MDL 0.03	VL041780.D	17 Dec 2024 15:46	SY/MD	Ok,M
12	MDL 0.03	VL041781.D	17 Dec 2024 16:17	SY/MD	Ok,M
13	QC120324 CAN 10279	VL041782.D	17 Dec 2024 16:48	SY/MD	Ok
14	QC120324 CAN 10654	VL041783.D	17 Dec 2024 17:19	SY/MD	Ok
15	VIBLK	VL041784.D	17 Dec 2024 17:50	SY/MD	Ok
16	VL1217ABS01	VL041785.D	17 Dec 2024 18:21	SY/MD	Ok,M
17	VSTDCCC010	VL041786.D	17 Dec 2024 18:52	SY/MD	Ok,M

M : Manual Integration

Process Report

Order ID : Q1532

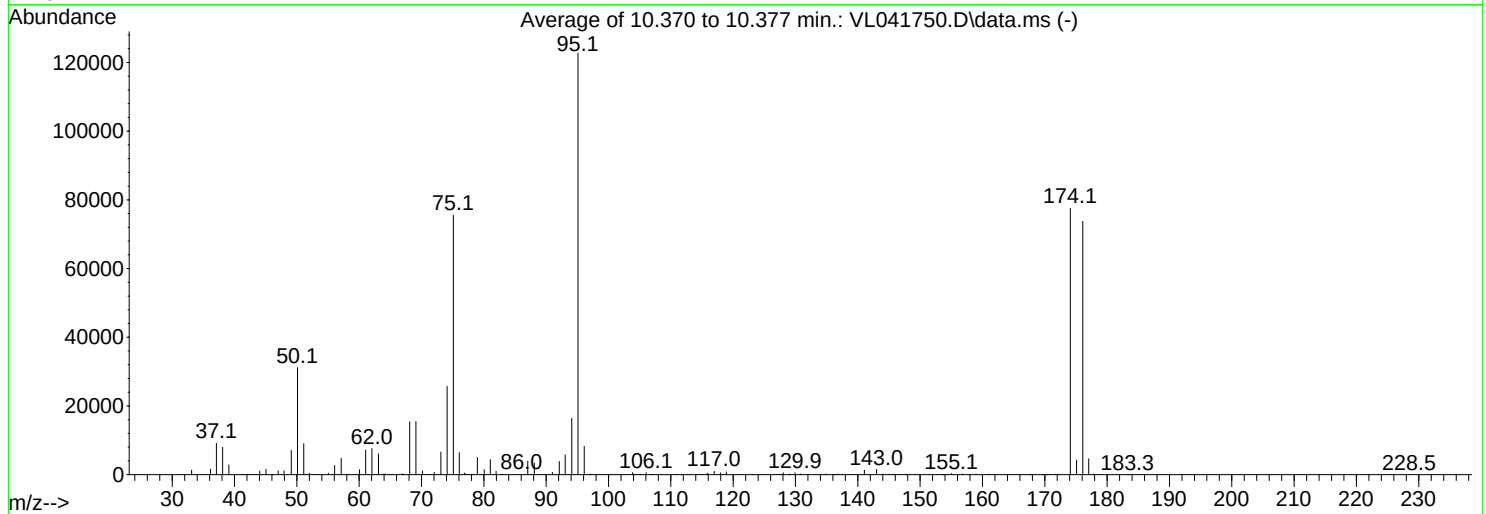
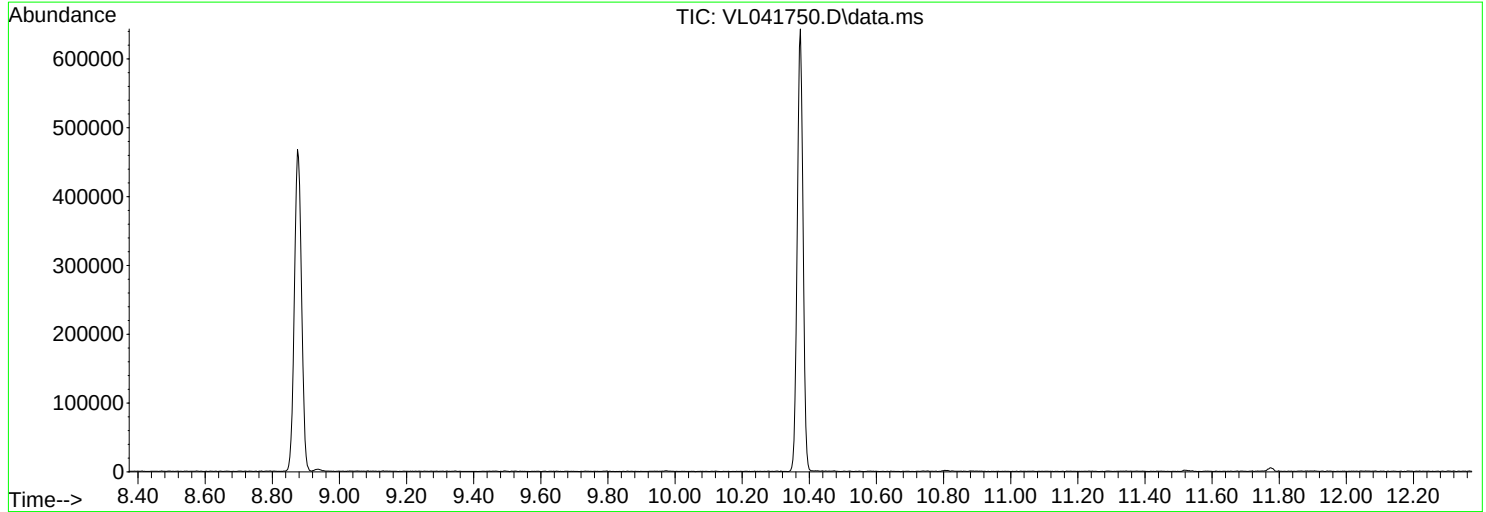
Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/10/2025	B2502012	Q1532-02	-2.7	10590	6 L	10784		C2412002	VL041796.D Seq :vl121824 TUNE : VL041787.D ICAL : VL041757.D CCAL : VL041788.D MB : VL041790.D
03/10/2025	B2502012	Q1532-04	-4.7	10295	6 L	10714		C2412001	VL041782.D Seq :vl121724 TUNE : VL041770.D ICAL : VL041757.D CCAL : VL041771.D MB : VL041774.D
03/10/2025	B2502012	Q1532-03	-4.3	10279	6 L	10704		C2412001	VL041782.D Seq :vl121724 TUNE : VL041770.D ICAL : VL041757.D CCAL : VL041771.D MB : VL041774.D
03/10/2025	B2503003	Q1532-01	-4.7	10303	6 L	10517		C2501003	VL041954.D Seq :VL012725 TUNE : VL041943.D ICAL : VL041894.D CCAL : VL041944.D MB : VL041946.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041750.D
Acq On : 16 Dec 2024 12:02
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	25.4	31157	PASS
75	95	30	66	61.5	75504	PASS
95	95	100	100	100.0	122797	PASS
96	95	5	9	6.7	8239	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.2	77565	PASS
175	174	4	9	5.5	4234	PASS
176	174	93	101	95.0	73717	PASS
177	176	5	9	6.3	4630	PASS

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL121624AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Thu Dec 19 07:32:09 2024

Response Via : Initial Calibration

Calibration Files

0.03=VL041757.D 0.1 =VL041756.D 0.5 =VL041755.D 1 =VL041754.D 2 =VL041753.D 10 =VL041752.D 15 =VL041758.D

Compound		0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...			1.886	1.927	1.840	1.682	1.562	1.779	8.61
3)	Chlorodifluoro...			1.679	1.697	1.653	1.566	1.559	1.631	3.94
4)	Chloromethane			0.737	0.729	0.736	0.630	0.650	0.696	7.48
5) T	Vinyl Chloride	0.909	0.673	0.682	0.695	0.689	0.625	0.637	0.701	13.60
6) T	Bromomethane			0.343	0.363	0.343	0.295	0.310	0.331	8.32
7)	Chloroethane			0.282	0.267	0.297	0.254	0.262	0.272	6.26
8) T	Dichlorotetra...			1.712	1.659	1.616	1.461	1.516	1.593	6.49
9) T	Propene			0.788	0.734	0.750	0.633	0.629	0.707	10.16
10) T	Heptane			1.950	1.821	1.875	1.705	1.726	1.816	5.64
11) T	Trichlorofluor...			1.981	1.915	1.943	1.791	1.820	1.890	4.31
12) T	1,1,2-Trichlor...			1.491	1.504	1.466	1.341	1.386	1.437	4.92
13)	Ethanol			0.081	0.080	0.059	0.036	0.037	0.059	37.17
14) T	Bromoethene			0.509	0.477	0.484	0.474	0.482	0.485	2.84
15) T	Acetone			2.474	2.284	2.047	1.461	1.462	1.946	24.00
16) T	1,3-Butadiene			0.891	0.779	0.777	0.685	0.699	0.766	10.74
17)	tert-Butyl alc...			1.999	2.024	1.975	1.833	1.819	1.930	5.00
18) T	1,1-Dichloroet...			0.608	0.628	0.622	0.565	0.591	0.603	4.20
19) T	Isopropyl Alcohol			1.709	1.320	1.107	0.860	0.841	1.167	30.91
20) T	Methylene Chlo...			0.653	0.587	0.562	0.477	0.495	0.555	12.88
21) T	Allyl Chloride			1.008	1.126	1.092	1.012	1.038	1.055	4.93
22) T	trans-1,2-Dich...			0.749	0.698	0.697	0.640	0.665	0.690	5.96
23) T	Vinyl Acetate			0.781	0.811	1.309	0.790	0.826	0.903	25.15
24) T	1,1-Dichloroet...			1.458	1.459	1.414	1.311	1.340	1.396	4.89
25) T	Ethyl Acetate			3.618	3.813	3.745	3.430	3.492	3.620	4.48
26) T	Hexane			1.423	1.403	1.423	1.303	1.316	1.374	4.32
27) T	Carbon Disulfide			1.024	1.237	1.202	1.346	1.380	1.238	11.34
28) T	Methyl tert-Bu...			1.033	1.295	1.115	1.098	1.030	1.114	9.69
29) T	Chloroform			2.155	2.182	2.138	1.969	2.022	2.093	4.41
30) T	Cyclohexane			1.217	1.187	1.215	1.096	1.130	1.169	4.62
31) T	cis-1,2-Dichlo...			1.430	1.519	1.460	1.331	1.358	1.419	5.37
32) T	1,1,1-Trichlor...	2.218	2.113	2.158	2.186	2.101	2.028	2.091	2.128	3.03
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone			0.869	0.820	0.860	0.736	0.737	0.805	8.05
35) T	Carbon Tetrach...	0.671	0.657	0.634	0.716	0.758	0.756	0.777	0.710	7.94
36) T	Benzene			1.079	1.080	1.059	0.975	0.979	1.034	5.16
37) T	1,2-Dichloroet...			0.690	0.642	0.650	0.608	0.628	0.644	4.71
38) T	Trichloroethene	0.551	0.469	0.408	0.437	0.428	0.388	0.393	0.439	12.92
39) T	1,2-Dichloropr...			0.382	0.395	0.388	0.353	0.353	0.374	5.36

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL121624AIR.M										
40)	T	1,4-Dioxane		0.212	0.181	0.187	0.167	0.167	0.183	10.12
41)	T	Tetrahydrofuran		0.455	0.488	0.455	0.427	0.428	0.451	5.52
42)	T	Bromodichlorom...		0.664	0.735	0.730	0.777	0.796	0.740	6.88
43)		Methyl Methacr...		0.372	0.394	0.406	0.395	0.404	0.394	3.38
44)	T	2,2,4-Trimethy...		1.826	1.809	1.842	1.674	1.681	1.767	4.64
45)	T	t-1,3-Dichloro...		0.382	0.393	0.407	0.423	0.434	0.408	5.25
46)	T	cis-1,3-Dichlo...		0.500	0.493	0.522	0.533	0.540	0.518	3.96
47)	T	1,1,2-Trichlor...		0.408	0.402	0.406	0.368	0.371	0.391	5.06
48)	T	Dibromochlorom...		0.433	0.493	0.540	0.593	0.609	0.534	13.58
49)	T	Bromoform		0.328	0.395	0.443	0.498	0.519	0.437	17.80
50)	T	4-Methyl-2-Pen...		1.062	1.130	1.149	1.060	1.076	1.095	3.75
51)	T	2-Hexanone		0.831	0.923	0.953	0.857	0.876	0.888	5.59
52)	T	Tetrachloroethene	0.555 0.333	0.346	0.395	0.372	0.343	0.351	0.385	20.18
53)	T	Toluene		1.183	1.207	1.215	1.123	1.136	1.173	3.54
54)	T	1,2-Dibromoethane	0.565	0.540	0.545	0.542	0.512	0.527	0.538	3.32
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.487	0.533	0.568	0.532	0.532	0.530	5.43
57)	T	Chlorobenzene		1.053	1.078	1.088	0.951	0.946	1.023	6.78
58)	T	Ethyl Benzene		1.694	1.834	1.931	1.774	1.769	1.800	4.90
59)	T	m/p-Xylene		1.423	1.467	1.522	1.417	1.410	1.448	3.26
60)	T	o-Xylene		1.382	1.492	1.560	1.421	1.404	1.452	5.04
61)	T	Styrene		0.544	0.598	0.636	0.674	0.687	0.628	9.27
62)		Isopropylbenzene		2.138	2.234	2.293	2.135	2.105	2.181	3.64
63)	T	1,1,2,2-Tetrac...	0.979 0.936	0.953	0.909	0.907	0.841	0.835	0.909	5.96
64)		n-propylbenzene		0.520	0.581	0.584	0.535	0.537	0.551	5.28
65)		tert-Butylbenzene		1.964	2.027	2.100	1.892	1.856	1.968	5.04
66)	T	Benzyl Chloride		0.169	0.155	0.165	0.190	0.188	0.173	8.70
67)		sec-Butylbenzene		2.682	2.774	2.926	2.638	2.595	2.723	4.84
68)	S	1-Bromo-4-Fluo...	0.827 0.829	0.834	0.819	0.844	0.848	0.833	0.833	1.18
69)		p-Isopropyltol...		2.149	2.237	2.416	2.223	2.195	2.244	4.54
70)		n-Butylbenzene		1.977	2.184	2.300	2.198	2.183	2.168	5.43
71)		2-Chlorotoluene		1.640	1.698	1.760	1.616	1.609	1.665	3.84
72)	T	4-Ethyltoluene		1.681	1.659	1.794	1.731	1.703	1.713	3.06
73)	T	1,3,5-Trimethy...		1.324	1.378	1.483	1.465	1.458	1.422	4.78
74)	T	1,2,4-Trimethy...		1.396	1.519	1.619	1.566	1.543	1.529	5.41
75)	T	1,3-Dichlorobe...		1.023	1.015	0.994	0.929	0.912	0.975	5.22
76)	T	1,4-Dichlorobe...		0.996	0.972	0.992	0.931	0.924	0.963	3.50
77)	T	1,2-Dichlorobe...		1.009	0.978	0.983	0.865	0.855	0.938	7.68
78)	T	Hexachloro-1,3...		0.786	0.756	0.773	0.586	0.575	0.695	15.13
79)	T	Naphthalene	0.754	0.928	1.046	1.154	1.258	1.251	1.065	18.57
80)	T	Naphthalene,2- ...		0.094	0.093	0.137	0.651	0.673	0.329	92.27
81)	T	1,2,4-Trichlor...		0.536	0.553	0.592	0.621	0.608	0.582	6.25

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041752.D
 Acq On : 16 Dec 2024 13:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:11:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	68599	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	183786	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	163333	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 138451 10.172 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.496	85	115385	9.453 ppbv	100
3) Chlorodifluoromethane	1.473	51	107429	9.603 ppbv	100
4) Chloromethane	1.531	50	43215	9.049 ppbv	100
5) Vinyl Chloride	1.580	62	42849	8.905 ppbv	100
6) Bromomethane	1.667	94	20252	8.919 ppbv	100
7) Chloroethane	1.703	64	17403	9.311 ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	100191	9.171 ppbv	100
9) Propene	1.483	41	43440	8.959 ppbv	100
10) Heptane	4.979	43	116969	9.391 ppbv	100
11) Trichlorofluoromethane	1.875	101	122831	9.474 ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	91977	9.327 ppbv	100
13) Ethanol	1.719	45	2484	6.161 ppbv	100
14) Bromoethene	1.781	108	32528	9.770 ppbv	100
15) Acetone	1.832	43	100229	7.509 ppbv	100
16) 1,3-Butadiene	1.606	39	46989	8.940 ppbv	100
17) tert-Butyl alcohol	2.036	59	125757	9.497 ppbv	100
18) 1,1-Dichloroethene	2.033	96	38775	9.379 ppbv	100
19) Isopropyl Alcohol	1.884	45	59026	7.370 ppbv	100
20) Methylene Chloride	2.059	84	32734	8.601 ppbv	100
21) Allyl Chloride	2.095	41	69406	9.588 ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	43898	9.276 ppbv	100
23) Vinyl Acetate	2.457	43	54227	9.350 ppbv	100
24) 1,1-Dichloroethane	2.405	63	89912	9.386 ppbv	100
25) Ethyl Acetate	2.833	43	235305	9.432 ppbv	100
26) Hexane	2.823	57	89385	9.486 ppbv	100
27) Carbon Disulfide	2.150	76	92329	10.873 ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	75330	9.854 ppbv	100
29) Chloroform	2.846	83	135099	9.408 ppbv	100
30) Cyclohexane	3.855	84	75156	9.374 ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	91276	9.374 ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	139102	9.733 ppbv	100
34) 2-Butanone	2.554	43	135331	9.153 ppbv	100
35) Carbon Tetrachloride	3.758	117	138952	10.650 ppbv	100
36) Benzene	3.655	78	179134	9.423 ppbv	100
37) 1,2-Dichloroethane	3.215	62	111770	9.449 ppbv	100
38) Trichloroethene	4.545	130	71297	8.907 ppbv	100
39) 1,2-Dichloropropane	4.309	63	64789	9.423 ppbv	100
40) 1,4-Dioxane	4.580	88	30658	9.128 ppbv #	100
41) Tetrahydrofuran	3.049	42	78480	9.474 ppbv	100
42) Bromodichloromethane	4.483	83	142819	10.494 ppbv	100
43) Methyl Methacrylate	4.878	69	72578	10.020 ppbv	100
44) 2,2,4-Trimethylpentane	4.639	57	307748	9.479 ppbv	100
45) t-1,3-Dichloropropene	6.412	75	77752	10.378 ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041752.D
 Acq On : 16 Dec 2024 13:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:11:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	97992	10.303	ppbv	100
47) 1,1,2-Trichloroethane	6.577	97	67550	9.406	ppbv	100
48) Dibromochloromethane	7.383	129	108899	11.105	ppbv	100
49) Bromoform	9.481	173	91587	11.410	ppbv	100
50) 4-Methyl-2-Pentanone	5.749	43	194838	9.678	ppbv	100
51) 2-Hexanone	7.432	43	157473	9.650	ppbv	100
52) Tetrachloroethene	8.222	164	62989	8.901	ppbv	100
53) Toluene	6.930	91	206354	9.574	ppbv	100
54) 1,2-Dibromoethane	7.649	107	94016	9.501	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	86831	10.027	ppbv	100
57) Chlorobenzene	8.921	112	155349	9.295	ppbv	100
58) Ethyl Benzene	9.354	91	289734	9.853	ppbv	100
59) m/p-Xylene	9.549	91	462802m	19.568	ppbv	
60) o-Xylene	9.963	91	232101	9.789	ppbv	100
61) Styrene	9.869	104	110041	10.733	ppbv	100
62) Isopropylbenzene	10.539	105	348684	9.788	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	137363	9.255	ppbv	100
64) n-propylbenzene	10.989	120	87360	9.700	ppbv	100
65) tert-Butylbenzene	11.529	119	309036	9.615	ppbv	100
66) Benzyl Chloride	11.614	91	31039	10.954	ppbv	100
67) sec-Butylbenzene	11.769	105	430810	9.687	ppbv	100
69) p-Isopropyltoluene	11.924	119	363072	9.906	ppbv	100
70) n-Butylbenzene	12.280	91	358993	10.137	ppbv	100
71) 2-Chlorotoluene	10.902	91	264002	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	282698	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	239261	10.304	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	255780	10.244	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	151752	9.532	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	152099	9.671	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	141338	9.227	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	95751	8.431	ppbv	100
79) Naphthalene	13.514	128	205511	11.812	ppbv	100
80) Naphthalene,2-methyl-	14.459	142	106311	19.755	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	101461	10.672	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041753.D
 Acq On : 16 Dec 2024 14:03
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:12:42 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	67443	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	182992	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	163971	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 138312 10.122 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	24819	2.068	ppbv	98
3) Chlorodifluoromethane	1.476	51	22299	2.027	ppbv	96
4) Chloromethane	1.531	50	9926	2.114	ppbv	99
5) Vinyl Chloride	1.580	62	9300	1.966	ppbv	99
6) Bromomethane	1.667	94	4625	2.072	ppbv	99
7) Chloroethane	1.706	64	4003	2.178	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	21791	2.029	ppbv	100
9) Propene	1.483	41	10115	2.122	ppbv	97
10) Heptane	4.978	43	25297	2.066	ppbv	100
11) Trichlorofluoromethane	1.878	101	26208	2.056	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	19770	2.039	ppbv	99
13) Ethanol	1.722	45	792	1.998	ppbv #	49
14) Bromoethene	1.784	108	6527	1.994	ppbv #	90
15) Acetone	1.835	43	27613	2.104	ppbv	99
16) 1,3-Butadiene	1.609	39	10478	2.028	ppbv	96
17) tert-Butyl alcohol	2.043	59	26646	2.047	ppbv	99
18) 1,1-Dichloroethene	2.033	96	8389	2.064	ppbv	92
19) Isopropyl Alcohol	1.887	45	14937	1.897	ppbv	93
20) Methylene Chloride	2.062	84	7586	2.027	ppbv	94
21) Allyl Chloride	2.094	41	14731	2.070	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	9407	2.022	ppbv	94
23) Vinyl Acetate	2.463	43	17652	3.096	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	19070	2.025	ppbv	99
25) Ethyl Acetate	2.836	43	50510	2.059	ppbv	99
26) Hexane	2.826	57	19200	2.073	ppbv	98
27) Carbon Disulfide	2.153	76	16214	1.942	ppbv #	34
28) Methyl tert-Butyl Ether	2.441	73	15039	2.001	ppbv	98
29) Chloroform	2.849	83	28843	2.043	ppbv	98
30) Cyclohexane	3.858	84	16384	2.079	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	19688	2.057	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	28341	2.017	ppbv	98
34) 2-Butanone	2.557	43	31483	2.138	ppbv	99
35) Carbon Tetrachloride	3.765	117	27727	2.134	ppbv	98
36) Benzene	3.658	78	38759	2.048	ppbv	94
37) 1,2-Dichloroethane	3.221	62	23800	2.021	ppbv	98
38) Trichloroethene	4.548	130	15660	1.965	ppbv	94
39) 1,2-Dichloropropane	4.315	63	14197	2.074	ppbv	94
40) 1,4-Dioxane	4.603	88	6826m	2.041	ppbv	
41) Tetrahydrofuran	3.059	42	16665	2.021	ppbv	96
42) Bromodichloromethane	4.489	83	26716	1.972	ppbv	98
43) Methyl Methacrylate	4.884	69	14849	2.059	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	67432	2.086	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	14885	1.995	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041753.D
 Acq On : 16 Dec 2024 14:03
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:12:42 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	19105m	2.017	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	14858	2.078	ppbv	89
48) Dibromochloromethane	7.390	129	19764	2.024	ppbv	98
49) Bromoform	9.484	173	16200	2.027	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	42045	2.098	ppbv	97
51) 2-Hexanone	7.441	43	34878	2.147	ppbv #	98
52) Tetrachloroethene	8.225	164	13612	1.932	ppbv	93
53) Toluene	6.933	91	44470	2.072	ppbv	99
54) 1,2-Dibromoethane	7.655	107	19820	2.012	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.924	131	18613	2.141	ppbv	98
57) Chlorobenzene	8.920	112	35685	2.127	ppbv	99
58) Ethyl Benzene	9.354	91	63316	2.145	ppbv	97
59) m/p-Xylene	9.535	91	99821m	4.204	ppbv	
60) o-Xylene	9.966	91	51152	2.149	ppbv	99
61) Styrene	9.872	104	20842	2.025	ppbv	96
62) Isopropylbenzene	10.539	105	75206	2.103	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	29751	1.997	ppbv	100
64) n-propylbenzene	10.992	120	19146	2.117	ppbv	99
65) tert-Butylbenzene	11.532	119	68879	2.135	ppbv	98
66) Benzyl Chloride	11.617	91	5400	1.898	ppbv	99
67) sec-Butylbenzene	11.769	105	95968	2.149	ppbv	100
69) p-Isopropyltoluene	11.927	119	79236	2.153	ppbv	100
70) n-Butylbenzene	12.283	91	75430	2.122	ppbv	99
71) 2-Chlorotoluene	10.901	91	57724	2.114	ppbv	99
72) 4-Ethyltoluene	11.125	105	58841	2.098	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	48645	2.087	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	53084	2.118	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	32609	2.040	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	32527	2.060	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	32223	2.095	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	25358	2.224	ppbv	98
79) Naphthalene	13.513	128	37855	2.167	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	4482	0.830	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	19425	2.035	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041754.D
 Acq On : 16 Dec 2024 14:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:13:31 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	65928	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	178926	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	162267	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 132857 9.825 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	12706	1.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	11187	1.041	ppbv	98
4) Chloromethane	1.531	50	4805	1.047	ppbv	99
5) Vinyl Chloride	1.580	62	4580	0.990	ppbv	98
6) Bromomethane	1.667	94	2394	1.097	ppbv	99
7) Chloroethane	1.703	64	1763	0.981	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	10938	1.042	ppbv	99
9) Propene	1.483	41	4840	1.039	ppbv	94
10) Heptane	4.972	43	12004	1.003	ppbv	93
11) Trichlorofluoromethane	1.874	101	12625	1.013	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	9915	1.046	ppbv	98
13) Ethanol	1.719	45	525m	1.355	ppbv	
14) Bromoethene	1.780	108	3148	0.984	ppbv #	86
15) Acetone	1.832	43	15060	1.174	ppbv	99
16) 1,3-Butadiene	1.609	39	5137	1.017	ppbv	95
17) tert-Butyl alcohol	2.039	59	13341	1.048	ppbv	96
18) 1,1-Dichloroethene	2.033	96	4139	1.042	ppbv	96
19) Isopropyl Alcohol	1.884	45	8703	1.131	ppbv	100
20) Methylene Chloride	2.059	84	3868	1.057	ppbv	92
21) Allyl Chloride	2.094	41	7425	1.067	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	4599	1.011	ppbv	96
23) Vinyl Acetate	2.460	43	5345	0.959	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9621	1.045	ppbv	98
25) Ethyl Acetate	2.836	43	25141	1.049	ppbv	99
26) Hexane	2.826	57	9250	1.021	ppbv	93
27) Carbon Disulfide	2.149	76	8152	0.999	ppbv #	19
28) Methyl tert-Butyl Ether	2.441	73	8539	1.162	ppbv	94
29) Chloroform	2.845	83	14384	1.042	ppbv	96
30) Cyclohexane	3.852	84	7824	1.015	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	10013	1.070	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	14415	1.049	ppbv	98
34) 2-Butanone	2.557	43	14673	1.019	ppbv	99
35) Carbon Tetrachloride	3.761	117	12808m	1.008	ppbv	
36) Benzene	3.651	78	19331	1.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	11490	0.998	ppbv #	94
38) Trichloroethene	4.551	130	7824m	1.004	ppbv	
39) 1,2-Dichloropropane	4.311	63	7068	1.056	ppbv	86
40) 1,4-Dioxane	4.596	88	3241	0.991	ppbv #	40
41) Tetrahydrofuran	3.062	42	8727	1.082	ppbv	97
42) Bromodichloromethane	4.489	83	13154	0.993	ppbv	100
43) Methyl Methacrylate	4.875	69	7044m	0.999	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	32361	1.024	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	7027	0.963	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041754.D
 Acq On : 16 Dec 2024 14:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:13:31 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8815m	0.952	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	7189m	1.028	ppbv	
48) Dibromochloromethane	7.383	129	8817	0.924	ppbv	97
49) Bromoform	9.480	173	7073	0.905	ppbv	96
50) 4-Methyl-2-Pentanone	5.761	43	20212	1.031	ppbv	100
51) 2-Hexanone	7.441	43	16514	1.040	ppbv #	99
52) Tetrachloroethene	8.225	164	7067m	1.026	ppbv	
53) Toluene	6.930	91	21594	1.029	ppbv	100
54) 1,2-Dibromoethane	7.648	107	9758	1.013	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	8643	1.005	ppbv	93
57) Chlorobenzene	8.920	112	17500	1.054	ppbv	97
58) Ethyl Benzene	9.351	91	29762	1.019	ppbv	98
59) m/p-Xylene	9.529	91	47599m	2.026	ppbv	
60) o-Xylene	9.963	91	24210	1.028	ppbv	98
61) Styrene	9.869	104	9707	0.953	ppbv	100
62) Isopropylbenzene	10.539	105	36251	1.024	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	14752	1.001	ppbv	98
64) n-propylbenzene	10.985	120	9432	1.054	ppbv	91
65) tert-Butylbenzene	11.529	119	32887	1.030	ppbv	100
66) Benzyl Chloride	11.610	91	2518	0.894	ppbv	97
67) sec-Butylbenzene	11.765	105	45015	1.019	ppbv	98
69) p-Isopropyltoluene	11.924	119	36298	0.997	ppbv	98
70) n-Butylbenzene	12.280	91	35432	1.007	ppbv	98
71) 2-Chlorotoluene	10.901	91	27561	1.020	ppbv	97
72) 4-Ethyltoluene	11.125	105	26921	0.970	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	22360	0.969	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	24654	0.994	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	16476	1.042	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	15774	1.010	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	15866	1.043	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	12266	1.087	ppbv	97
79) Naphthalene	13.513	128	16971	0.982	ppbv	96
80) Naphthalene,2-methyl-	14.458	142	1504	0.281	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.439	180	8973	0.950	ppbv	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041755.D
 Acq On : 16 Dec 2024 15:05
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 19 06:14:17 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	66562	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	178453	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	158571	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 132273 10.010 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	6277	0.530	ppbv	94
3) Chlorodifluoromethane	1.476	51	5587	0.515	ppbv	95
4) Chloromethane	1.531	50	2452	0.529	ppbv	90
5) Vinyl Chloride	1.580	62	2269	0.486	ppbv	97
6) Bromomethane	1.667	94	1143	0.519	ppbv #	78
7) Chloroethane	1.703	64	939	0.518	ppbv	88
8) Dichlorotetrafluoroethane	1.554	85	5699	0.538	ppbv	97
9) Propene	1.483	41	2622	0.557	ppbv #	82
10) Heptane	4.978	43	6491m	0.537	ppbv	
11) Trichlorofluoromethane	1.878	101	6594	0.524	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	4962	0.519	ppbv	96
13) Ethanol	1.719	45	269m	0.688	ppbv	
14) Bromoethene	1.781	108	1694	0.524	ppbv #	93
15) Acetone	1.836	43	8233	0.636	ppbv	97
16) 1,3-Butadiene	1.609	39	2966	0.582	ppbv	88
17) tert-Butyl alcohol	2.043	59	6654	0.518	ppbv #	91
18) 1,1-Dichloroethene	2.033	96	2022	0.504	ppbv	96
19) Isopropyl Alcohol	1.884	45	5687	0.732	ppbv #	39
20) Methylene Chloride	2.062	84	2174	0.589	ppbv #	91
21) Allyl Chloride	2.098	41	3354	0.478	ppbv	86
22) trans-1,2-Dichloroethene	2.341	96	2494	0.543	ppbv	83
23) Vinyl Acetate	2.464	43	2599	0.462	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	4854	0.522	ppbv #	97
25) Ethyl Acetate	2.839	43	12040	0.497	ppbv #	97
26) Hexane	2.829	57	4735	0.518	ppbv	96
27) Carbon Disulfide	2.153	76	3409	0.414	ppbv #	37
28) Methyl tert-Butyl Ether	2.441	73	3438	0.464	ppbv	99
29) Chloroform	2.849	83	7172	0.515	ppbv	98
30) Cyclohexane	3.859	84	4051	0.521	ppbv	96
31) cis-1,2-Dichloroethene	2.723	61	4758	0.504	ppbv	91
32) 1,1,1-Trichloroethane	3.367	97	7182	0.518	ppbv	99
34) 2-Butanone	2.557	43	7756	0.540	ppbv	94
35) Carbon Tetrachloride	3.765	117	5655	0.446	ppbv	90
36) Benzene	3.658	78	9629	0.522	ppbv	97
37) 1,2-Dichloroethane	3.218	62	6154	0.536	ppbv	99
38) Trichloroethene	4.551	130	3637m	0.468	ppbv	
39) 1,2-Dichloropropane	4.318	63	3410m	0.511	ppbv	
40) 1,4-Dioxane	4.606	88	1892m	0.580	ppbv	
41) Tetrahydrofuran	3.066	42	4061	0.505	ppbv	99
42) Bromodichloromethane	4.490	83	5926m	0.448	ppbv	
43) Methyl Methacrylate	4.881	69	3322	0.472	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	16294m	0.517	ppbv	
45) t-1,3-Dichloropropene	6.422	75	3406m	0.468	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041755.D
 Acq On : 16 Dec 2024 15:05
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 19 06:14:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.597	75	4462m	0.483	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	3636m	0.521	ppbv	
48) Dibromochloromethane	7.387	129	3865	0.406	ppbv	99
49) Bromoform	9.484	173	2928m	0.376	ppbv	
50) 4-Methyl-2-Pentanone	5.765	43	9479m	0.485	ppbv	
51) 2-Hexanone	7.451	43	7412	0.468	ppbv #	99
52) Tetrachloroethene	8.225	164	3091	0.450	ppbv #	78
53) Toluene	6.933	91	10554	0.504	ppbv	99
54) 1,2-Dibromoethane	7.658	107	4819m	0.502	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.930	131	3858m	0.459	ppbv	
57) Chlorobenzene	8.927	112	8346m	0.514	ppbv	
58) Ethyl Benzene	9.358	91	13428	0.470	ppbv	97
59) m/p-Xylene	9.552	91	22560m	0.983	ppbv	
60) o-Xylene	9.963	91	10954	0.476	ppbv	98
61) Styrene	9.869	104	4314	0.433	ppbv	94
62) Isopropylbenzene	10.542	105	16953	0.490	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.966	83	7559	0.525	ppbv	98
64) n-propylbenzene	10.989	120	4126	0.472	ppbv	92
65) tert-Butylbenzene	11.529	119	15569	0.499	ppbv	99
66) Benzyl Chloride	11.620	91	1340m	0.487	ppbv	
67) sec-Butylbenzene	11.769	105	21263	0.492	ppbv	96
69) p-Isopropyltoluene	11.928	119	17041	0.479	ppbv	99
70) n-Butylbenzene	12.284	91	15671	0.456	ppbv	99
71) 2-Chlorotoluene	10.902	91	13000	0.492	ppbv	97
72) 4-Ethyltoluene	11.128	105	13324	0.491	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	10497	0.466	ppbv	91
74) 1,2,4-Trimethylbenzene	11.536	105	11070	0.457	ppbv #	76
75) 1,3-Dichlorobenzene	11.604	146	8107	0.525	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	7893	0.517	ppbv	97
77) 1,2-Dichlorobenzene	11.950	146	7997	0.538	ppbv	96
78) Hexachloro-1,3-Butadiene	13.882	225	6232	0.565	ppbv	98
79) Naphthalene	13.517	128	7360	0.436	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	748	0.143	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	4248	0.460	ppbv	93

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041756.D
 Acq On : 16 Dec 2024 15:37
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:15:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	65926	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	177964	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	158649	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	131540	9.950	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
5) Vinyl Chloride	1.580	62	444	0.096	ppbv #	78
32) 1,1,1-Trichloroethane	3.370	97	1393	0.101	ppbv	97
35) Carbon Tetrachloride	3.771	117	1170	0.093	ppbv #	84
38) Trichloroethene	4.548	130	835m	0.108	ppbv	
52) Tetrachloroethene	8.228	164	593m	0.087	ppbv	
54) 1,2-Dibromoethane	7.658	107	1005m	0.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	1485m	0.103	ppbv	
79) Naphthalene	13.523	128	1196	0.071	ppbv #	90

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

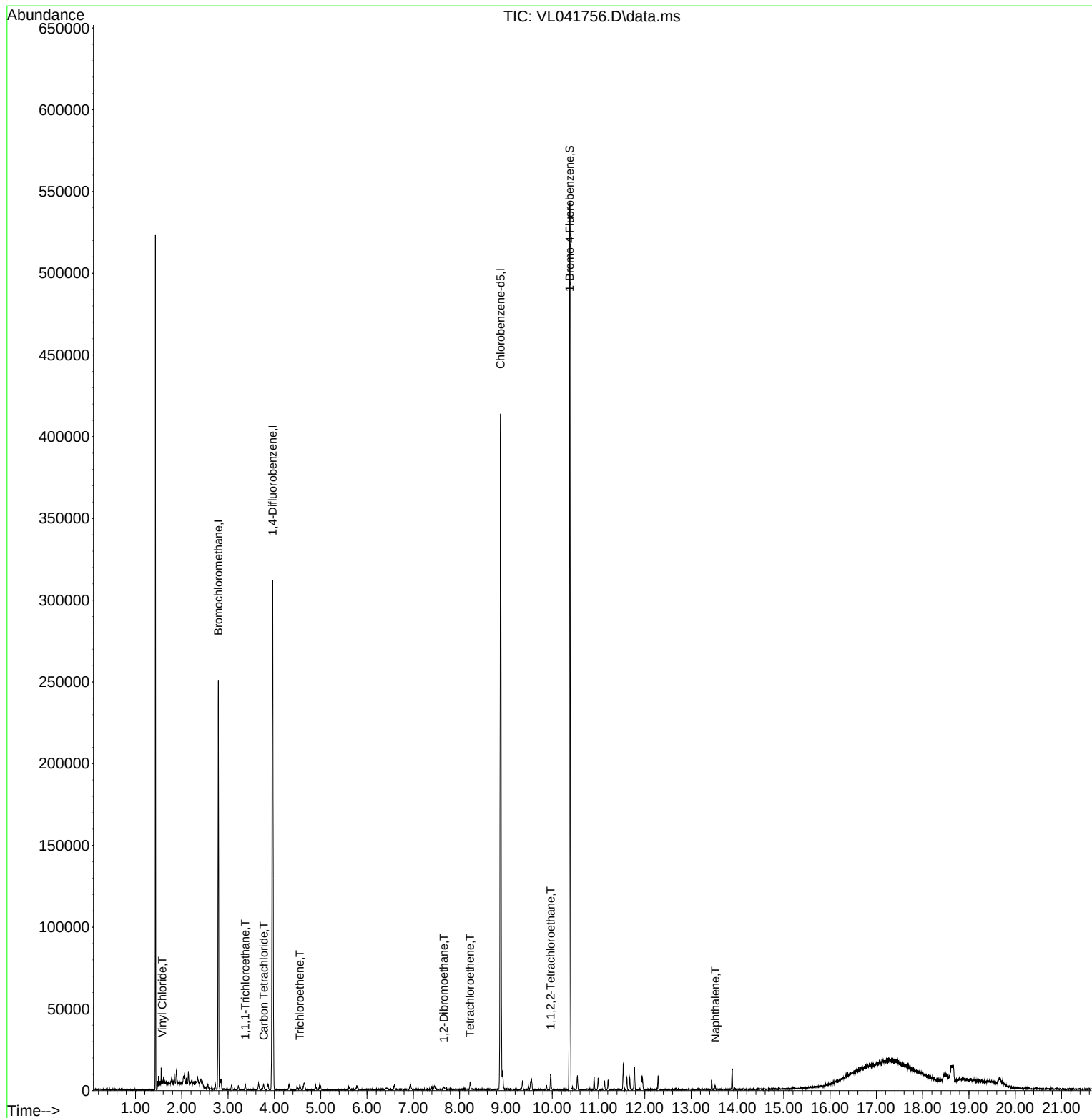
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041756.D
Acq On : 16 Dec 2024 15:37
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:15:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041757.D
 Acq On : 16 Dec 2024 16:08
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:15:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	64158	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	174825	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	154998	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	128167	9.923	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	175	0.039	ppbv #	84
32) 1,1,1-Trichloroethane	3.369	97	427m	0.032	ppbv	
35) Carbon Tetrachloride	3.768	117	352m	0.028	ppbv	
38) Trichloroethene	4.551	130	289m	0.038	ppbv	
52) Tetrachloroethene	8.234	164	291m	0.043	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	455	0.032	ppbv #	96

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

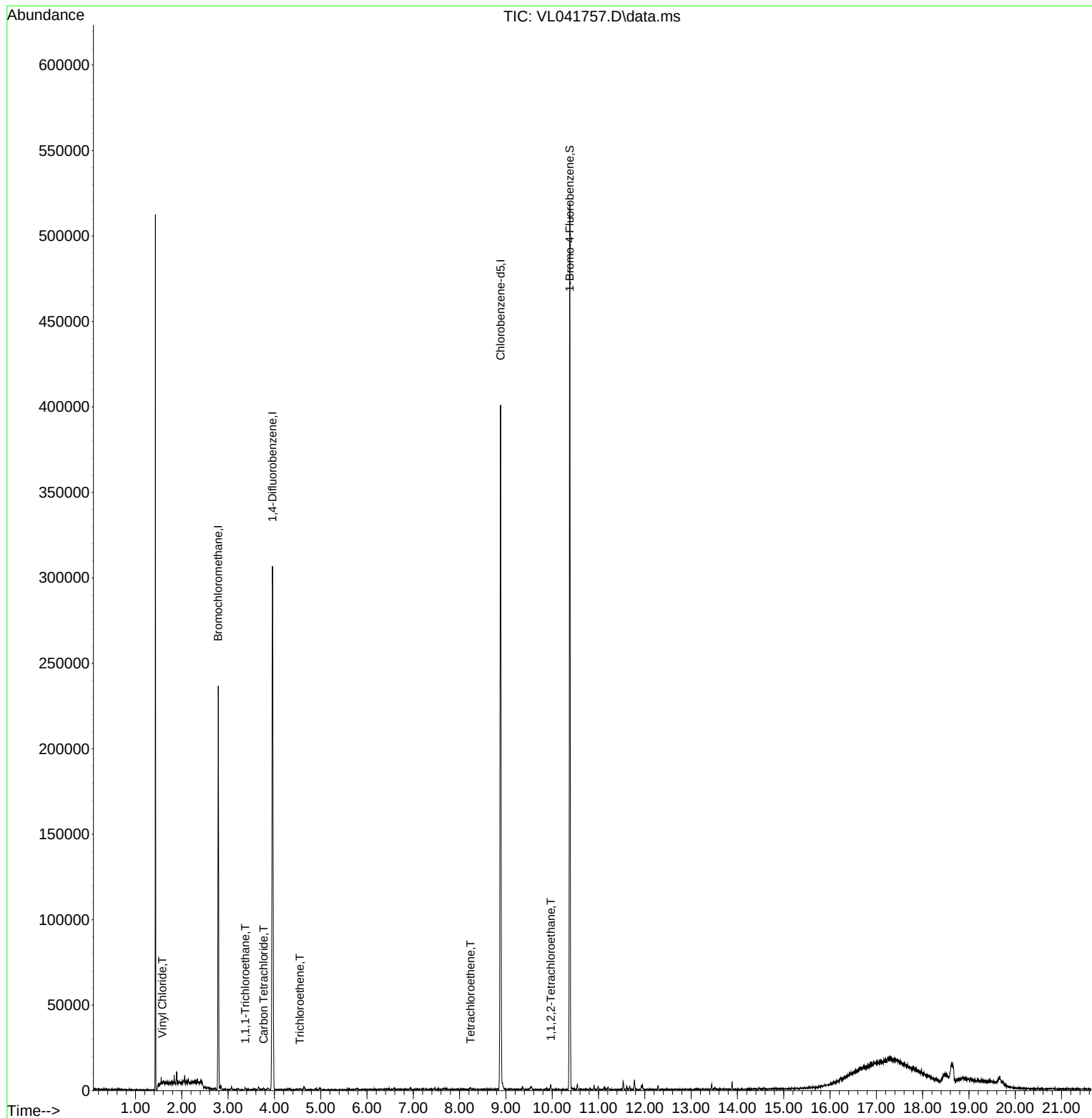
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041757.D
Acq On : 16 Dec 2024 16:08
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Dec 19 06:15:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
Supervised By : Mahesh Dadoda 12/20/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041758.D
 Acq On : 16 Dec 2024 16:41
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:16:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	65186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	176856	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	160457	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 133687 9.998 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	152683	13.163	ppbv	95
3) Chlorodifluoromethane	1.473	51	152455	14.341	ppbv	98
4) Chloromethane	1.531	50	63517	13.996	ppbv	98
5) Vinyl Chloride	1.577	62	62250	13.615	ppbv	99
6) Bromomethane	1.667	94	30345	14.064	ppbv	96
7) Chloroethane	1.703	64	25650	14.442	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	148190	14.274	ppbv	99
9) Propene	1.483	41	61515	13.351	ppbv	99
10) Heptane	4.978	43	168804	14.263	ppbv	100
11) Trichlorofluoromethane	1.874	101	177984	14.446	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	135538	14.464	ppbv	98
13) Ethanol	1.719	45	3643	9.509	ppbv	100
14) Bromoethene	1.780	108	47132	14.898	ppbv	99
15) Acetone	1.832	43	142980	11.273	ppbv	100
16) 1,3-Butadiene	1.606	39	68311	13.678	ppbv	98
17) tert-Butyl alcohol	2.036	59	177908	14.140	ppbv	99
18) 1,1-Dichloroethene	2.033	96	57770	14.705	ppbv	99
19) Isopropyl Alcohol	1.884	45	82211	10.802	ppbv	99
20) Methylene Chloride	2.059	84	48356	13.371	ppbv	99
21) Allyl Chloride	2.094	41	101528	14.760	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	65029	14.461	ppbv	97
23) Vinyl Acetate	2.460	43	80795	14.661	ppbv	98
24) 1,1-Dichloroethane	2.405	63	131030	14.394	ppbv	100
25) Ethyl Acetate	2.832	43	341429	14.402	ppbv	100
26) Hexane	2.823	57	128657	14.369	ppbv	99
27) Carbon Disulfide	2.149	76	134963	16.726	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	100758	13.871	ppbv	100
29) Chloroform	2.845	83	197713	14.489	ppbv	99
30) Cyclohexane	3.855	84	110448	14.497	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	132821	14.355	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	204468	15.055	ppbv	100
34) 2-Butanone	2.554	43	195439	13.736	ppbv	99
35) Carbon Tetrachloride	3.761	117	206252	16.428	ppbv	94
36) Benzene	3.654	78	259630	14.192	ppbv	99
37) 1,2-Dichloroethane	3.214	62	166576	14.633	ppbv	100
38) Trichloroethene	4.548	130	104184	13.525	ppbv	95
39) 1,2-Dichloropropane	4.312	63	93624	14.150	ppbv	97
40) 1,4-Dioxane	4.577	88	44377	13.730	ppbv #	96
41) Tetrahydrofuran	3.052	42	113618	14.254	ppbv	100
42) Bromodichloromethane	4.486	83	211145	16.123	ppbv	96
43) Methyl Methacrylate	4.878	69	107165	15.374	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	445947	14.274	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	115159	15.973	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041758.D
 Acq On : 16 Dec 2024 16:41
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:16:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	143172	15.643	ppbv	95
47) 1,1,2-Trichloroethane	6.580	97	98426	14.242	ppbv	94
48) Dibromochloromethane	7.386	129	161661	17.131	ppbv	100
49) Bromoform	9.484	173	137786	17.838	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	285467	14.735	ppbv	99
51) 2-Hexanone	7.435	43	232363	14.798	ppbv #	100
52) Tetrachloroethene	8.225	164	93120	13.675	ppbv	98
53) Toluene	6.930	91	301428	14.533	ppbv	100
54) 1,2-Dibromoethane	7.652	107	139889	14.690	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	128108	15.059	ppbv	99
57) Chlorobenzene	8.924	112	227716	13.869	ppbv	100
58) Ethyl Benzene	9.354	91	425852	14.742	ppbv	99
59) m/p-Xylene	9.552	91	678656m	29.209	ppbv	
60) o-Xylene	9.963	91	337891	14.506	ppbv	100
61) Styrene	9.869	104	165328	16.415	ppbv	100
62) Isopropylbenzene	10.539	105	506570	14.475	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	201057	13.790	ppbv	100
64) n-propylbenzene	10.989	120	129200	14.602	ppbv	97
65) tert-Butylbenzene	11.532	119	446690	14.148	ppbv	98
66) Benzyl Chloride	11.617	91	45189	16.234	ppbv	99
67) sec-Butylbenzene	11.769	105	624565	14.295	ppbv	99
69) p-Isopropyltoluene	11.927	119	528265	14.671	ppbv	99
70) n-Butylbenzene	12.283	91	525377	15.101	ppbv	100
71) 2-Chlorotoluene	10.901	91	387300	14.498	ppbv	100
72) 4-Ethyltoluene	11.125	105	409822	14.934	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	350895	15.383	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	371476	15.144	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	219506	14.036	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	222290	14.388	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	205737	13.672	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	138481	12.412	ppbv	100
79) Naphthalene	13.513	128	301006	17.611	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	161927	30.630	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	146340	15.669	ppbv	99

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

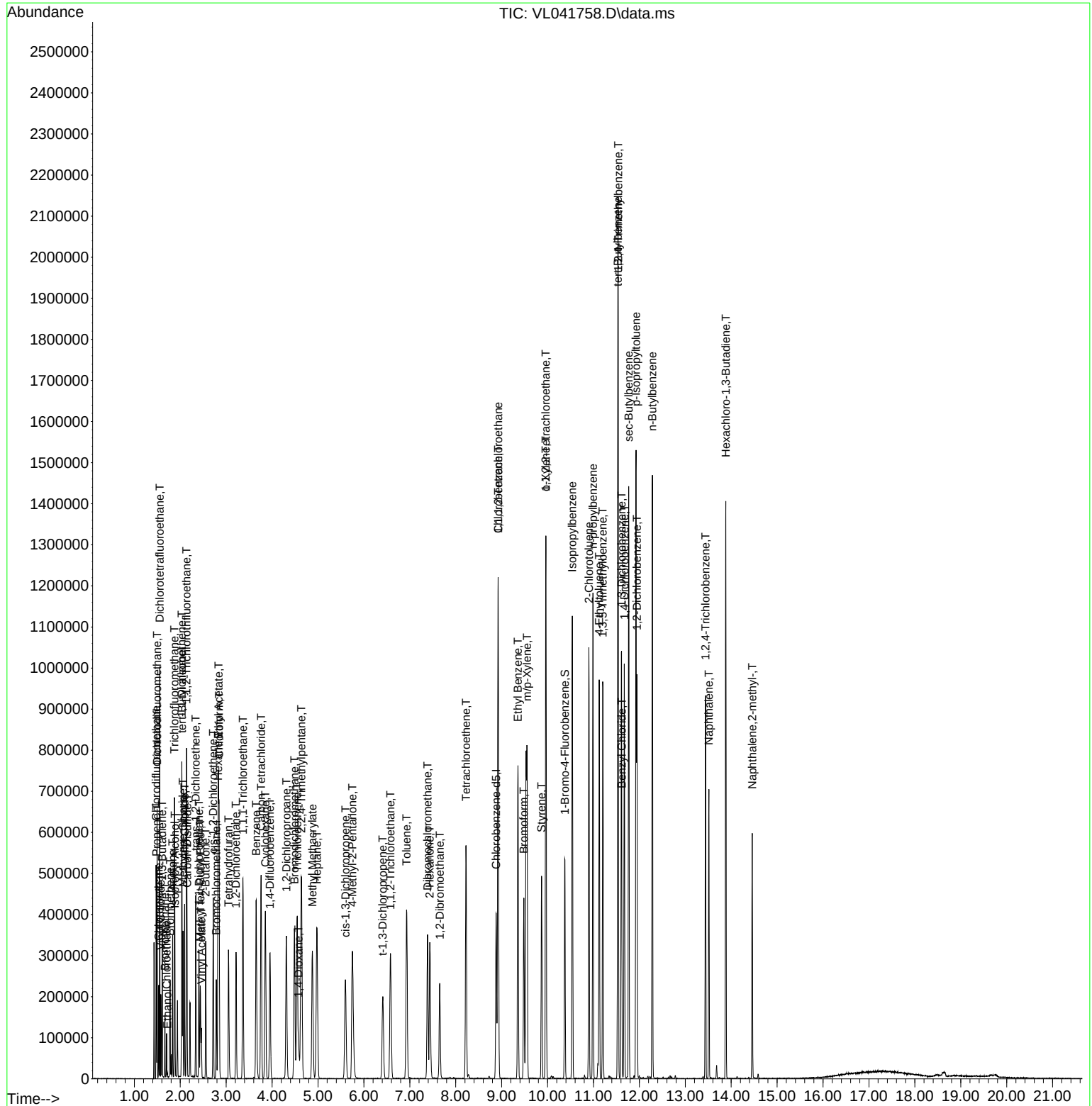
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041758.D
 Acq On : 16 Dec 2024 16:41
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:16:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 07:36:00 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	64976	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	174378	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	153443	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 129985 10.166 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	106780	9.236	ppbv	95
3) Chlorodifluoromethane	1.476	51	105141	9.922	ppbv	99
4) Chloromethane	1.531	50	43409	9.596	ppbv	96
5) Vinyl Chloride	1.580	62	40956	8.986	ppbv	97
6) Bromomethane	1.667	94	19590	9.109	ppbv	94
7) Chloroethane	1.703	64	17356	9.803	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	99858	9.650	ppbv	98
9) Propene	1.483	41	41721	9.084	ppbv	98
10) Heptane	4.981	43	115804	9.816	ppbv	99
11) Trichlorofluoromethane	1.877	101	115785	9.428	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	88265	9.450	ppbv	100
13) Ethanol	1.722	45	2749m	7.229	ppbv	
14) Bromoethene	1.780	108	31492	9.987	ppbv	98
15) Acetone	1.835	43	94879	7.505	ppbv	99
16) 1,3-Butadiene	1.609	39	45119	9.063	ppbv	98
17) tert-Butyl alcohol	2.039	59	122035	9.730	ppbv	100
18) 1,1-Dichloroethene	2.033	96	37466	9.568	ppbv	98
19) Isopropyl Alcohol	1.884	45	57577	7.590	ppbv	98
20) Methylene Chloride	2.062	84	32325	8.967	ppbv	96
21) Allyl Chloride	2.094	41	67596	9.859	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	42651	9.515	ppbv	97
23) Vinyl Acetate	2.463	43	51812	8.826	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	87006	9.589	ppbv	100
25) Ethyl Acetate	2.835	43	234370	9.965	ppbv	100
26) Hexane	2.826	57	87034	9.752	ppbv	97
27) Carbon Disulfide	2.149	76	85650	10.649	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	62189	8.589	ppbv	99
29) Chloroform	2.848	83	134541	9.892	ppbv	98
30) Cyclohexane	3.858	84	75274	9.912	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	91628	9.935	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	137978	9.979	ppbv	99
34) 2-Butanone	2.557	43	133939	9.547	ppbv	99
35) Carbon Tetrachloride	3.764	117	138537	11.191	ppbv	97
36) Benzene	3.658	78	176537	9.787	ppbv	99
37) 1,2-Dichloroethane	3.221	62	112037	9.982	ppbv	99
38) Trichloroethene	4.551	130	70108	9.156	ppbv	96
39) 1,2-Dichloropropane	4.318	63	63675	9.761	ppbv	95
40) 1,4-Dioxane	4.583	88	30891	9.693	ppbv #	98
41) Tetrahydrofuran	3.056	42	77472	9.857	ppbv	99
42) Bromodichloromethane	4.493	83	139717	10.821	ppbv	95
43) Methyl Methacrylate	4.881	69	70299	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.641	57	301772	9.796	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	77534	10.907	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 07:36:00 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	95812	10.617	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	66169m	9.711	ppbv	
48) Dibromochloromethane	7.389	129	105378	11.326	ppbv	100
49) Bromoform	9.487	173	88971	11.682	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	190637	9.980	ppbv	99
51) 2-Hexanone	7.441	43	155646	10.053	ppbv #	100
52) Tetrachloroethene	8.228	164	62782	9.351	ppbv	96
53) Toluene	6.933	91	199754	9.768	ppbv	99
54) 1,2-Dibromoethane	7.655	107	93439	9.952	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	85883	10.558	ppbv	99
57) Chlorobenzene	8.924	112	155257	9.888	ppbv	98
58) Ethyl Benzene	9.357	91	284770	10.308	ppbv	98
59) m/p-Xylene	9.555	91	459102m	20.669	ppbv	
60) o-Xylene	9.966	91	229517	10.304	ppbv	98
61) Styrene	9.875	104	106841	11.093	ppbv	99
62) Isopropylbenzene	10.542	105	348887	10.425	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	137547	9.865	ppbv	99
64) n-propylbenzene	10.992	120	87865	10.384	ppbv	98
65) tert-Butylbenzene	11.536	119	307790	10.194	ppbv	100
66) Benzyl Chloride	11.620	91	29398	11.054	ppbv	99
67) sec-Butylbenzene	11.772	105	430521	10.304	ppbv	99
69) p-Isopropyltoluene	11.927	119	365667	10.620	ppbv	100
70) n-Butylbenzene	12.283	91	356880	10.727	ppbv	99
71) 2-Chlorotoluene	10.904	91	264123	10.340	ppbv	99
72) 4-Ethyltoluene	11.128	105	280580	10.672	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	237804	10.902	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	256141	10.919	ppbv #	88
75) 1,3-Dichlorobenzene	11.610	146	149927	10.025	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	152212	10.302	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	142734	9.919	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	94671	8.873	ppbv	99
79) Naphthalene	13.516	128	202413	12.384	ppbv	100
80) Naphthalene,2-methyl-	14.461	142	102431	20.261	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	98468	11.025	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Quant Time: Dec 19 07:36:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	95	0.00
2 T	Dichlorodifluoromethane	1.779	1.643	7.6	93	0.00
3	Chlorodifluoromethane	1.631	1.618	0.8	98	0.00
4	Chloromethane	0.696	0.668	4.0	100	0.00
5 T	Vinyl Chloride	0.701	0.630	10.1	96	0.00
6 T	Bromomethane	0.331	0.301	9.1	97	0.00
7	Chloroethane	0.272	0.267	1.8	100	0.00
8 T	Dichlorotetrafluoroethane	1.593	1.537	3.5	100	0.00
9 T	Propene	0.707	0.642	9.2	96	0.00
10 T	Heptane	1.816	1.782	1.9	99	0.00
11 T	Trichlorofluoromethane	1.890	1.782	5.7	94	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.437	1.358	5.5	96	0.00
13	Ethanol	0.059	0.042#	28.8	111	0.00
14 T	Bromoethene	0.485	0.485	0.0	97	0.00
15 T	Acetone	1.946	1.460	25.0	95	0.00
16 T	1,3-Butadiene	0.766	0.694	9.4	96	0.00
17	tert-Butyl alcohol	1.930	1.878	2.7	97	0.00
18 T	1,1-Dichloroethene	0.603	0.577	4.3	97	0.00
19 T	Isopropyl Alcohol	1.167	0.886	24.1	98	0.00
20 T	Methylene Chloride	0.555	0.497	10.5	99	0.00
21 T	Allyl Chloride	1.055	1.040	1.4	97	0.00
22 T	trans-1,2-Dichloroethene	0.690	0.656	4.9	97	0.00
23 T	Vinyl Acetate	0.903	0.797	11.7	96	0.00
24 T	1,1-Dichloroethane	1.396	1.339	4.1	97	0.00
25 T	Ethyl Acetate	3.620	3.607	0.4	100	0.00
26 T	Hexane	1.374	1.339	2.5	97	0.00
27 T	Carbon Disulfide	1.238	1.318	-6.5	93	0.00
28 T	Methyl tert-Butyl Ether	1.114	0.957	14.1	83	0.00
29 T	Chloroform	2.093	2.071	1.1	100	0.00
30 T	Cyclohexane	1.169	1.158	0.9	100	0.00
31 T	cis-1,2-Dichloroethene	1.419	1.410	0.6	100	0.00
32 T	1,1,1-Trichloroethane	2.128	2.124	0.2	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
34 T	2-Butanone	0.805	0.768	4.6	99	0.00
35 T	Carbon Tetrachloride	0.710	0.794	-11.8	100	0.00
36 T	Benzene	1.034	1.012	2.1	99	0.00
37 T	1,2-Dichloroethane	0.644	0.642	0.3	100	0.00
38 T	Trichloroethene	0.439	0.402	8.4	98	0.00
39 T	1,2-Dichloropropane	0.374	0.365	2.4	98	0.00
40 T	1,4-Dioxane	0.183	0.177	3.3	101	0.00
41 T	Tetrahydrofuran	0.451	0.444	1.6	99	0.00
42 T	Bromodichloromethane	0.740	0.801	-8.2	98	0.00
43	Methyl Methacrylate	0.394	0.403	-2.3	97	0.00
44 T	2,2,4-Trimethylpentane	1.767	1.731	2.0	98	0.00
45 T	t-1,3-Dichloropropene	0.408	0.445	-9.1	100	0.00
46 T	cis-1,3-Dichloropropene	0.518	0.549	-6.0	98	0.00
47 T	1,1,2-Trichloroethane	0.391	0.379	3.1	98	0.00
48 T	Dibromochloromethane	0.534	0.604	-13.1	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Quant Time: Dec 19 07:36:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.437	0.510	-16.7	97	0.00
50 T	4-Methyl-2-Pentanone	1.095	1.093	0.2	98	0.00
51 T	2-Hexanone	0.888	0.893	-0.6	99	0.00
52 T	Tetrachloroethene	0.385	0.360	6.5	100	0.00
53 T	Toluene	1.173	1.146	2.3	97	0.00
54 T	1,2-Dibromoethane	0.538	0.536	0.4	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.530	0.560	-5.7	99	0.00
57 T	Chlorobenzene	1.023	1.012	1.1	100	0.00
58 T	Ethyl Benzene	1.800	1.856	-3.1	98	0.00
59 T	m/p-Xylene	1.448	1.496	-3.3	99	0.00
60 T	o-Xylene	1.452	1.496	-3.0	99	0.00
61 T	Styrene	0.628	0.696	-10.8	97	0.00
62	Isopropylbenzene	2.181	2.274	-4.3	100	0.00
63 T	1,1,2,2-Tetrachloroethane	0.909	0.896	1.4	100	0.00
64	n-propylbenzene	0.551	0.573	-4.0	101	0.00
65	tert-Butylbenzene	1.968	2.006	-1.9	100	0.00
66 T	Benzyl Chloride	0.173	0.192	-11.0	95	0.00
67	sec-Butylbenzene	2.723	2.806	-3.0	100	0.00
68 S	1-Bromo-4-Fluorobenzene	0.833	0.847	-1.7	94	0.00
69	p-Isopropyltoluene	2.244	2.383	-6.2	101	0.00
70	n-Butylbenzene	2.168	2.326	-7.3	99	0.00
71	2-Chlorotoluene	1.665	1.721	-3.4	100	0.00
72 T	4-Ethyltoluene	1.713	1.829	-6.8	99	0.00
73 T	1,3,5-Trimethylbenzene	1.422	1.550	-9.0	99	0.00
74 T	1,2,4-Trimethylbenzene	1.529	1.669	-9.2	100	0.00
75 T	1,3-Dichlorobenzene	0.975	0.977	-0.2	99	0.00
76 T	1,4-Dichlorobenzene	0.963	0.992	-3.0	100	0.00
77 T	1,2-Dichlorobenzene	0.938	0.930	0.9	101	0.00
78 T	Hexachloro-1,3-Butadiene	0.695	0.617	11.2	99	0.00
79 T	Naphthalene	1.065	1.319	-23.8	98	0.00
80 T	Naphthalene,2-methyl-	0.329	0.668	-103.0#	96	0.00
81 T	1,2,4-Trichlorobenzene	0.582	0.642	-10.3	97	0.00

(#) = Out of Range

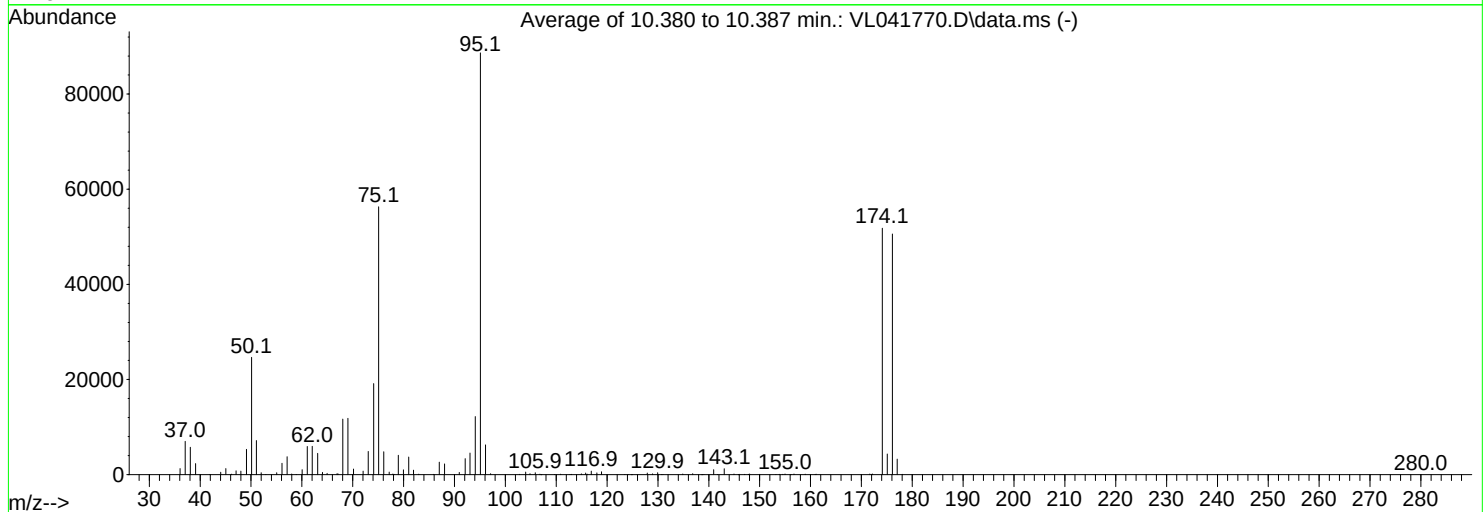
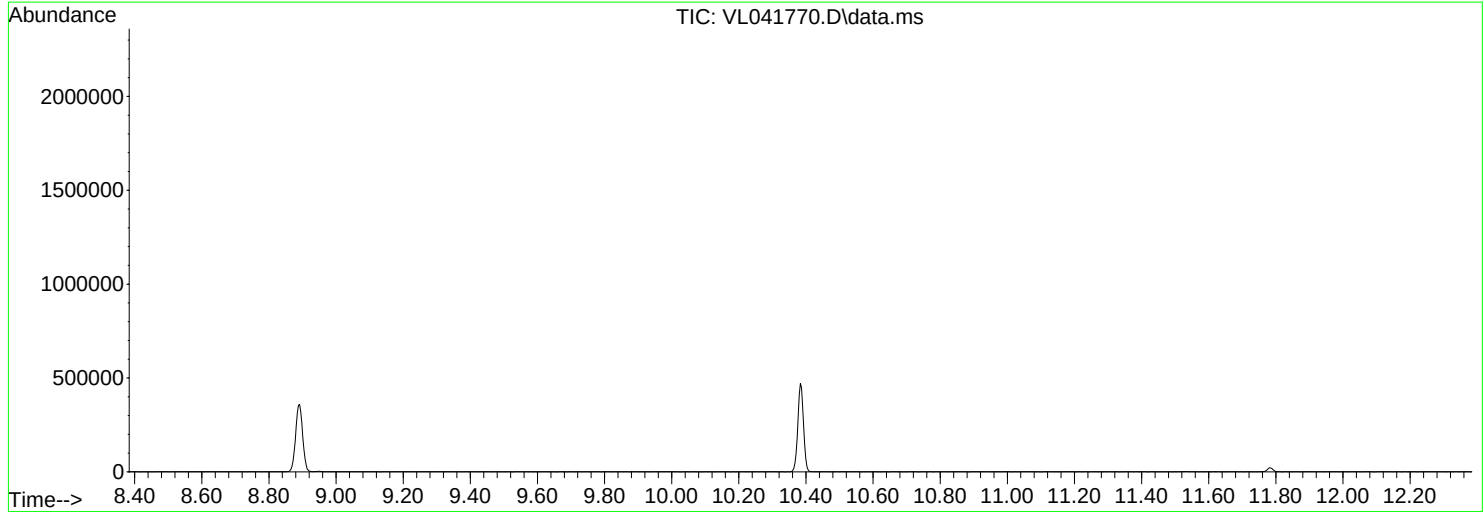
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041770.D
Acq On : 17 Dec 2024 08:44
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024



AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	27.8	24648	PASS
75	95	30	66	63.5	56309	PASS
95	95	100	100	100.0	88664	PASS
96	95	5	9	7.1	6255	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.4	51792	PASS
175	174	4	9	8.4	4336	PASS
176	174	93	101	97.7	50603	PASS
177	176	5	9	6.5	3270	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
 Data File : VL041771.D
 Acq On : 17 Dec 2024 09:49
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
 Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 21 01:02:10 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	63883	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	170187	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	148019	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 126112 10.224 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	114858	10.104	ppbv	98
3) Chlorodifluoromethane	1.476	51	106911	10.262	ppbv	98
4) Chloromethane	1.534	50	46946	10.555	ppbv	99
5) Vinyl Chloride	1.583	62	44602	9.954	ppbv	98
6) Bromomethane	1.670	94	20846	9.858	ppbv	95
7) Chloroethane	1.706	64	18045	10.367	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	106150	10.433	ppbv	97
9) Propene	1.486	41	38601	8.548	ppbv	94
10) Heptane	4.991	43	112356	9.687	ppbv	99
11) Trichlorofluoromethane	1.881	101	124685	10.327	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	94656	10.308	ppbv	99
13) Ethanol	1.722	45	2836m	7.585	ppbv	
14) Bromoethene	1.784	108	32828	10.588	ppbv	97
15) Acetone	1.839	43	102064	8.211	ppbv	98
16) 1,3-Butadiene	1.612	39	48987	10.009	ppbv	98
17) tert-Butyl alcohol	2.043	59	124445	10.092	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40376	10.487	ppbv	95
19) Isopropyl Alcohol	1.887	45	58910	7.899	ppbv	96
20) Methylene Chloride	2.065	84	34491	9.731	ppbv	97
21) Allyl Chloride	2.098	41	68576	10.173	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	44672	10.136	ppbv	99
23) Vinyl Acetate	2.467	43	50341	8.723	ppbv	98
24) 1,1-Dichloroethane	2.412	63	93890	10.525	ppbv	98
25) Ethyl Acetate	2.842	43	235645	10.191	ppbv	100
26) Hexane	2.829	57	87940	10.022	ppbv	97
27) Carbon Disulfide	2.153	76	81899	10.357	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	68145	9.573	ppbv	96
29) Chloroform	2.855	83	140153	10.481	ppbv	98
30) Cyclohexane	3.865	84	73570	9.854	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	91424	10.083	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	144527	10.632	ppbv	98
34) 2-Butanone	2.560	43	134057	9.791	ppbv	99
35) Carbon Tetrachloride	3.771	117	144928	11.996	ppbv	96
36) Benzene	3.664	78	176315	10.016	ppbv	99
37) 1,2-Dichloroethane	3.224	62	117688	10.744	ppbv	100
38) Trichloroethene	4.557	130	71903	9.622	ppbv	98
39) 1,2-Dichloropropane	4.324	63	63050	9.903	ppbv	99
40) 1,4-Dioxane	4.593	88	30339	9.754	ppbv #	95
41) Tetrahydrofuran	3.059	42	72983	9.515	ppbv	97
42) Bromodichloromethane	4.499	83	141557	11.233	ppbv	96
43) Methyl Methacrylate	4.891	69	70021	10.439	ppbv	97
44) 2,2,4-Trimethylpentane	4.651	57	299816	9.972	ppbv	98
45) t-1,3-Dichloropropene	6.425	75	72674	10.475	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
 Data File : VL041771.D
 Acq On : 17 Dec 2024 09:49
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
 Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 21 01:02:10 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	89477	10.159	ppbv	98
47) 1,1,2-Trichloroethane	6.593	97	67399	10.135	ppbv	96
48) Dibromochloromethane	7.399	129	105580	11.627	ppbv	99
49) Bromoform	9.493	173	84969	11.431	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	187697	10.068	ppbv	99
51) 2-Hexanone	7.448	43	149660	9.904	ppbv #	100
52) Tetrachloroethene	8.234	164	62093	9.476	ppbv	95
53) Toluene	6.946	91	198382	9.940	ppbv	100
54) 1,2-Dibromoethane	7.665	107	96206	10.499	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	89730	11.435	ppbv	98
57) Chlorobenzene	8.930	112	156382	10.324	ppbv	100
58) Ethyl Benzene	9.364	91	284336	10.670	ppbv	96
59) m/p-Xylene	9.561	91	467116m	21.800	ppbv	
60) o-Xylene	9.972	91	232011	10.798	ppbv	100
61) Styrene	9.879	104	106367	11.448	ppbv	99
62) Isopropylbenzene	10.549	105	351803	10.897	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	141837	10.546	ppbv	99
64) n-propylbenzene	10.998	120	90334	11.067	ppbv	98
65) tert-Butylbenzene	11.539	119	313159	10.752	ppbv	97
66) Benzyl Chloride	11.623	91	24817	9.673	ppbv	99
67) sec-Butylbenzene	11.775	105	444694	11.033	ppbv	100
69) p-Isopropyltoluene	11.934	119	369199	11.115	ppbv	100
70) n-Butylbenzene	12.290	91	367292	11.444	ppbv	99
71) 2-Chlorotoluene	10.908	91	267997	10.876	ppbv	100
72) 4-Ethyltoluene	11.134	105	285054	11.239	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	243649	11.579	ppbv	98
74) 1,2,4-Trimethylbenzene	11.545	105	260072	11.493	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	152917	10.599	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	155829	10.934	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	144600	10.417	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	94068	9.139	ppbv	99
79) Naphthalene	13.520	128	203690	12.919	ppbv	98
80) Naphthalene,2-methyl-	14.465	142	99597	20.423	ppbv	99
81) 1,2,4-Trichlorobenzene	13.449	180	97162	11.277	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
 Data File : VL041771.D
 Acq On : 17 Dec 2024 09:49
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Dec 21 01:02:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	1.779	1.798	-1.1	100	0.00
3	Chlorodifluoromethane	1.631	1.674	-2.6	100	0.00
4	Chloromethane	0.696	0.735	-5.6	109	0.00
5 T	Vinyl Chloride	0.701	0.698	0.4	104	0.00
6 T	Bromomethane	0.331	0.326	1.5	103	0.00
7	Chloroethane	0.272	0.282	-3.7	104	0.00
8 T	Dichlorotetrafluoroethane	1.593	1.662	-4.3	106	0.00
9 T	Propene	0.707	0.604	14.6	89	0.00
10 T	Heptane	1.816	1.759	3.1	96	0.01
11 T	Trichlorofluoromethane	1.890	1.952	-3.3	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.437	1.482	-3.1	103	0.00
13	Ethanol	0.059	0.044#	25.4	114	0.00
14 T	Bromoethene	0.485	0.514	-6.0	101	0.00
15 T	Acetone	1.946	1.598	17.9	102	0.00
16 T	1,3-Butadiene	0.766	0.767	-0.1	104	0.00
17	tert-Butyl alcohol	1.930	1.948	-0.9	99	0.00
18 T	1,1-Dichloroethene	0.603	0.632	-4.8	104	0.00
19 T	Isopropyl Alcohol	1.167	0.922	21.0	100	0.00
20 T	Methylene Chloride	0.555	0.540	2.7	105	0.00
21 T	Allyl Chloride	1.055	1.073	-1.7	99	0.00
22 T	trans-1,2-Dichloroethene	0.690	0.699	-1.3	102	0.00
23 T	Vinyl Acetate	0.903	0.788	12.7	93	0.00
24 T	1,1-Dichloroethane	1.396	1.470	-5.3	104	0.00
25 T	Ethyl Acetate	3.620	3.689	-1.9	100	0.00
26 T	Hexane	1.374	1.377	-0.2	98	0.00
27 T	Carbon Disulfide	1.238	1.282	-3.6	89	0.00
28 T	Methyl tert-Butyl Ether	1.114	1.067	4.2	90	0.00
29 T	Chloroform	2.093	2.194	-4.8	104	0.00
30 T	Cyclohexane	1.169	1.152	1.5	98	0.00
31 T	cis-1,2-Dichloroethene	1.419	1.431	-0.8	100	0.00
32 T	1,1,1-Trichloroethane	2.128	2.262	-6.3	104	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.805	0.788	2.1	99	0.00
35 T	Carbon Tetrachloride	0.710	0.852	-20.0	104	0.01
36 T	Benzene	1.034	1.036	-0.2	98	0.00
37 T	1,2-Dichloroethane	0.644	0.692	-7.5	105	0.00
38 T	Trichloroethene	0.439	0.422	3.9	101	0.01
39 T	1,2-Dichloropropane	0.374	0.370	1.1	97	0.02
40 T	1,4-Dioxane	0.183	0.178	2.7	99	0.01
41 T	Tetrahydrofuran	0.451	0.429	4.9	93	0.00
42 T	Bromodichloromethane	0.740	0.832	-12.4	99	0.02
43	Methyl Methacrylate	0.394	0.411	-4.3	96	0.01
44 T	2,2,4-Trimethylpentane	1.767	1.762	0.3	97	0.01
45 T	t-1,3-Dichloropropene	0.408	0.427	-4.7	93	0.01
46 T	cis-1,3-Dichloropropene	0.518	0.526	-1.5	91	0.02
47 T	1,1,2-Trichloroethane	0.391	0.396	-1.3	100	0.02
48 T	Dibromochloromethane	0.534	0.620	-16.1	97	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
 Data File : VL041771.D
 Acq On : 17 Dec 2024 09:49
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Dec 21 01:02:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.437	0.499	-14.2	93	0.01
50 T	4-Methyl-2-Pentanone	1.095	1.103	-0.7	96	0.02
51 T	2-Hexanone	0.888	0.879	1.0	95	0.02
52 T	Tetrachloroethene	0.385	0.365	5.2	99	0.01
53 T	Toluene	1.173	1.166	0.6	96	0.02
54 T	1,2-Dibromoethane	0.538	0.565	-5.0	102	0.02
55 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.01
56	1,1,1,2-Tetrachloroethane	0.530	0.606	-14.3	103	0.00
57 T	Chlorobenzene	1.023	1.056	-3.2	101	0.00
58 T	Ethyl Benzene	1.800	1.921	-6.7	98	0.00
59 T	m/p-Xylene	1.448	1.578	-9.0	101	0.01
60 T	o-Xylene	1.452	1.567	-7.9	100	0.00
61 T	Styrene	0.628	0.719	-14.5	97	0.00
62	Isopropylbenzene	2.181	2.377	-9.0	101	0.00
63 T	1,1,2,2-Tetrachloroethane	0.909	0.958	-5.4	103	0.00
64	n-propylbenzene	0.551	0.610	-10.7	103	0.00
65	tert-Butylbenzene	1.968	2.116	-7.5	101	0.00
66 T	Benzyl Chloride	0.173	0.168	2.9	80	0.00
67	sec-Butylbenzene	2.723	3.004	-10.3	103	0.00
68 S	1-Bromo-4-Fluorobenzene	0.833	0.852	-2.3	91	0.00
69	p-Isopropyltoluene	2.244	2.494	-11.1	102	0.00
70	n-Butylbenzene	2.168	2.481	-14.4	102	0.00
71	2-Chlorotoluene	1.665	1.811	-8.8	102	0.00
72 T	4-Ethyltoluene	1.713	1.926	-12.4	101	0.00
73 T	1,3,5-Trimethylbenzene	1.422	1.646	-15.8	102	0.00
74 T	1,2,4-Trimethylbenzene	1.529	1.757	-14.9	102	0.00
75 T	1,3-Dichlorobenzene	0.975	1.033	-5.9	101	0.00
76 T	1,4-Dichlorobenzene	0.963	1.053	-9.3	102	0.00
77 T	1,2-Dichlorobenzene	0.938	0.977	-4.2	102	0.00
78 T	Hexachloro-1,3-Butadiene	0.695	0.636	8.5	98	0.00
79 T	Naphthalene	1.065	1.376	-29.2	99	0.00
80 T	Naphthalene,2-methyl-	0.329	0.673	-104.6#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.582	0.656	-12.7	96	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
 Data File : VL041774.D
 Acq On : 17 Dec 2024 11:38
 Operator : SY/MD
 Sample : VL1217ABL03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1217ABL03

Quant Time: Dec 21 01:23:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	58655	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	151953	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	129932	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	107886	9.964	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

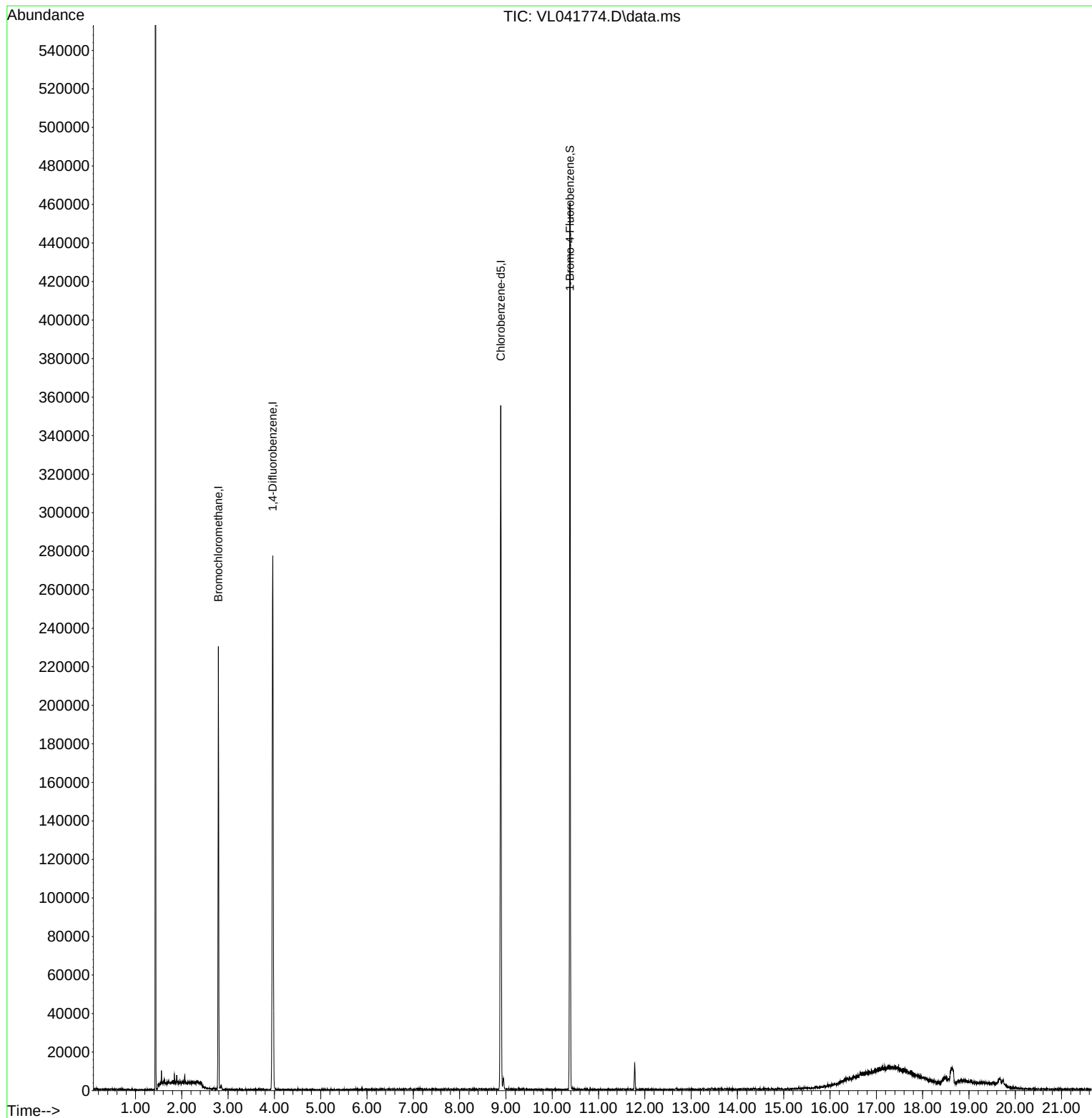
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041774.D
Acq On : 17 Dec 2024 11:38
Operator : SY/MD
Sample : VL1217ABL03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1217ABL03

Quant Time: Dec 21 01:23:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
 Data File : VL041782.D
 Acq On : 17 Dec 2024 16:48
 Operator : SY/MD
 Sample : QC120324 CAN 10279
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC120324 CAN 10279

Quant Time: Dec 21 01:23:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.793	49	52249	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	133574	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	111625	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	92764	9.972	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%

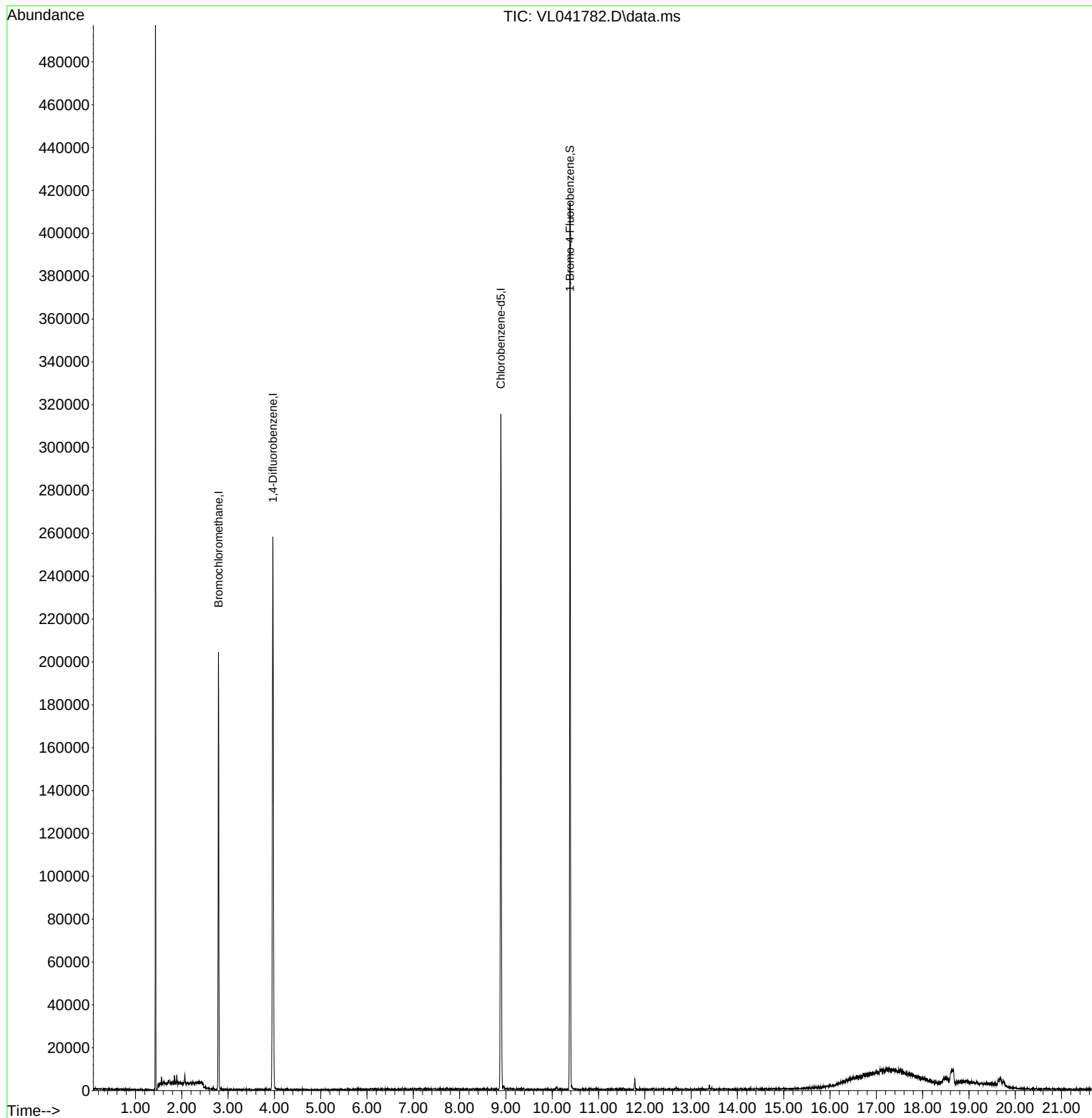
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041782.D
Acq On : 17 Dec 2024 16:48
Operator : SY/MD
Sample : QC120324 CAN 10279
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC120324 CAN 10279

Quant Time: Dec 21 01:23:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
 Data File : VL041785.D
 Acq On : 17 Dec 2024 18:21
 Operator : SY/MD
 Sample : VL1217ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1217ABS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
 Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 21 01:24:59 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	54213	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	140075	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	121094	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 105471 10.452 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	122071	12.654	ppbv	96
3) Chlorodifluoromethane	1.476	51	97620	11.042	ppbv	97
4) Chloromethane	1.535	50	45514	12.059	ppbv	100
5) Vinyl Chloride	1.580	62	41769	10.984	ppbv	99
6) Bromomethane	1.667	94	20050	11.173	ppbv	97
7) Chloroethane	1.706	64	17448	11.812	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	103546	11.993	ppbv	98
9) Propene	1.483	41	33269	8.682	ppbv	100
10) Heptane	4.988	43	97758	9.932	ppbv	98
11) Trichlorofluoromethane	1.878	101	126103	12.307	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	91035	11.681	ppbv	97
13) Ethanol	1.722	45	2169	6.836	ppbv	99
14) Bromoethene	1.784	108	30006	11.405	ppbv	98
15) Acetone	1.836	43	102941	9.759	ppbv	98
16) 1,3-Butadiene	1.609	39	50702	12.207	ppbv	92
17) tert-Butyl alcohol	2.039	59	118264	11.302	ppbv	100
18) 1,1-Dichloroethene	2.036	96	37940	11.612	ppbv	94
19) Isopropyl Alcohol	1.887	45	50959	8.051	ppbv #	37
20) Methylene Chloride	2.062	84	32617	10.844	ppbv	97
21) Allyl Chloride	2.098	41	65202	11.397	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	41460	11.086	ppbv	97
23) Vinyl Acetate	2.463	43	38650	7.891	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	89281	11.793	ppbv	99
25) Ethyl Acetate	2.836	43	202270	10.308	ppbv	99
26) Hexane	2.829	57	75521	10.142	ppbv	95
27) Carbon Disulfide	2.153	76	70287	10.474	ppbv	94
28) Methyl tert-Butyl Ether	2.441	73	60841	10.071	ppbv	99
29) Chloroform	2.852	83	131902	11.623	ppbv	98
30) Cyclohexane	3.858	84	63139	9.965	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	77368	10.054	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	127851	11.082	ppbv	98
34) 2-Butanone	2.557	43	117732	10.447	ppbv	99
35) Carbon Tetrachloride	3.765	117	132599	13.335	ppbv	100
36) Benzene	3.661	78	152574	10.530	ppbv	97
37) 1,2-Dichloroethane	3.221	62	109290	12.122	ppbv	98
38) Trichloroethene	4.554	130	60544	9.844	ppbv	94
39) 1,2-Dichloropropane	4.318	63	54900	10.476	ppbv	94
40) 1,4-Dioxane	4.590	88	23530	9.192	ppbv #	94
41) Tetrahydrofuran	3.059	42	60687	9.613	ppbv	99
42) Bromodichloromethane	4.496	83	125015	12.053	ppbv	99
43) Methyl Methacrylate	4.884	69	56790	10.287	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	265340	10.723	ppbv	96
45) t-1,3-Dichloropropene	6.422	75	53137	9.305	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
 Data File : VL041785.D
 Acq On : 17 Dec 2024 18:21
 Operator : SY/MD
 Sample : VL1217ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1217ABS01

Quant Time: Dec 21 01:24:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Mahesh Dadoda 12/18/2024
 Supervised By : Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	68915	9.506	ppbv #	95
47) 1,1,2-Trichloroethane	6.587	97	60020	10.965	ppbv	94
48) Dibromochloromethane	7.396	129	87978	11.771	ppbv	99
49) Bromoform	9.487	173	69543	11.367	ppbv	99
50) 4-Methyl-2-Pentanone	5.762	43	161524	10.527	ppbv	98
51) 2-Hexanone	7.445	43	124882	10.041	ppbv #	98
52) Tetrachloroethene	8.231	164	50417	9.348	ppbv	92
53) Toluene	6.940	91	164444	10.010	ppbv	100
54) 1,2-Dibromoethane	7.655	107	81185	10.764	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.930	131	77953	12.143	ppbv	99
57) Chlorobenzene	8.927	112	133682	10.788	ppbv	99
58) Ethyl Benzene	9.361	91	238227	10.927	ppbv	98
59) m/p-Xylene	9.555	91	403788m	23.035	ppbv	
60) o-Xylene	9.969	91	203719	11.589	ppbv	100
61) Styrene	9.875	104	81621	10.738	ppbv	99
62) Isopropylbenzene	10.545	105	301277	11.407	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	120585	10.959	ppbv	98
64) n-propylbenzene	10.995	120	75657	11.330	ppbv	100
65) tert-Butylbenzene	11.536	119	265393	11.138	ppbv	97
66) Benzyl Chloride	11.620	91	15405	7.340	ppbv	98
67) sec-Butylbenzene	11.772	105	369494	11.206	ppbv	100
69) p-Isopropyltoluene	11.931	119	293875	10.815	ppbv	98
70) n-Butylbenzene	12.287	91	286572	10.915	ppbv	98
71) 2-Chlorotoluene	10.905	91	217719	10.800	ppbv	97
72) 4-Ethyltoluene	11.128	105	233768	11.266	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	199390	11.582	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	216724	11.707	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	119553	10.129	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	117225	10.054	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	114949	10.122	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	72933	8.662	ppbv	98
79) Naphthalene	13.517	128	150651	11.679	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	51565	12.925	ppbv	96
81) 1,2,4-Trichlorobenzene	13.445	180	71526	10.148	ppbv	97

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

