

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL072524

Review By	Semsettin Yesilyurt	Review On	7/29/2024 10:58:46 AM
Supervise By	Mahesh Dadoda	Supervise On	7/29/2024 5:57:16 PM
SubDirectory	VL072524	HP Acquire Method	AIR-TO15
		HP Processing Method	VL072524AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2535		
Initial Calibration Stds	AP2539,AP2540,AP2541		
CCC	AP2539		
Internal Standard/PEM	AP2535		
ICV/I.BLK	AP2537		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041397.D	25 Jul 2024 12:29	SY/MD	Ok
2	VSTDICC0.5	VL041398.D	25 Jul 2024 13:19	SY/MD	Ok,M
3	VSTDICCC010	VL041399.D	25 Jul 2024 13:59	SY/MD	Ok,M
4	VSTDICC002	VL041400.D	25 Jul 2024 14:40	SY/MD	Ok,M
5	VSTDICC001	VL041401.D	25 Jul 2024 15:19	SY/MD	Ok,M
6	VSTDICC0.5	VL041402.D	25 Jul 2024 16:00	SY/MD	Not Ok
7	VSTDICC0.1	VL041403.D	25 Jul 2024 16:42	SY/MD	Ok,M
8	VSTDICC0.03	VL041404.D	25 Jul 2024 17:24	SY/MD	Ok,M
9	VSTDICC015	VL041405.D	25 Jul 2024 18:06	SY/MD	Ok,M
10	VSTDICV010	VL041406.D	25 Jul 2024 19:31	SY/MD	Ok,M
11	VL0725ABL01	VL041407.D	25 Jul 2024 20:56	SY/MD	Ok
12	VL0725ABS01	VL041408.D	25 Jul 2024 21:38	SY/MD	Ok,M
13	VIBLK	VL041409.D	25 Jul 2024 22:20	SY/MD	Ok
14	P3320-01	VL041410.D	26 Jul 2024 7:22	SY/MD	Ok,M
15	P3320-01DUP	VL041411.D	26 Jul 2024 8:02	SY/MD	Ok,M
16	P3320-02	VL041412.D	26 Jul 2024 8:43	SY/MD	Dilution
17	P3342-04	VL041413.D	26 Jul 2024 9:24	SY/MD	Ok,M
18	P3356-01	VL041414.D	26 Jul 2024 10:04	SY/MD	Dilution
19	P3356-02	VL041415.D	26 Jul 2024 10:45	SY/MD	Ok,M
20	P3320-02DL	VL041416.D	26 Jul 2024 11:25	SY/MD	Ok,M
21	P3356-01DL	VL041417.D	26 Jul 2024 12:05	SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL072524

Review By	Semsettin Yesilyurt	Review On	7/29/2024 10:58:46 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/29/2024 5:57:16 PM		
SubDirectory	VL072524	HP Acquire Method	AIR-TO15	HP Processing Method	VL072524AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2535				
Initial Calibration Stds	AP2539,AP2540,AP2541				
CCC	AP2539				
Internal Standard/PEM	AP2535				
ICV/I.BLK	AP2537				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VSTDCCC010	VL041418.D	26 Jul 2024 12:45	SY/MD	Not Ok
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M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081924

Review By	Semsettin Yesilyurt	Review On	8/20/2024 2:35:55 PM
Supervise By	Mahesh Dadoda	Supervise On	8/20/2024 4:35:44 PM
SubDirectory	VL081924	HP Acquire Method	AIR-TO15
		HP Processing Method	VL072524AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2536		
Initial Calibration Stds	AP2539,AP2540,AP2541		
CCC	AP2539		
Internal Standard/PEM	AP2536		
ICV/I.BLK	AP2537		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041539.D	19 Aug 2024 8:10	SY/MD	Ok
2	VSTDCCC010	VL041540.D	19 Aug 2024 8:59	SY/MD	Ok,M
3	VL0819ABL01	VL041541.D	19 Aug 2024 10:07	SY/MD	Ok
4	VL0819ABS01	VL041542.D	19 Aug 2024 10:48	SY/MD	Ok,M
5	QC081324 CAN 10604	VL041543.D	19 Aug 2024 11:29	SY/MD	Ok
6	QC081424 CAN 10280	VL041544.D	19 Aug 2024 12:10	SY/MD	Ok
7	QC081424 CAN 10054	VL041545.D	19 Aug 2024 12:51	SY/MD	Ok
8	P3658-01	VL041546.D	19 Aug 2024 13:33	SY/MD	Ok,M
9	P3658-01DUP	VL041547.D	19 Aug 2024 14:14	SY/MD	Ok,M
10	P3658-02	VL041548.D	19 Aug 2024 14:56	SY/MD	Ok,M
11	P3659-01	VL041549.D	19 Aug 2024 15:40	SY/MD	Ok,M
12	P3658-03	VL041550.D	19 Aug 2024 16:25	SY/MD	Ok,M
13	P3658-03DL	VL041551.D	19 Aug 2024 17:11	SY/MD	Not Ok
14	P3658-04	VL041552.D	19 Aug 2024 17:56	SY/MD	ReRun
15	P3658-04DL	VL041553.D	19 Aug 2024 18:40	SY/MD	Confirms
16	P3658-05	VL041554.D	19 Aug 2024 19:24	SY/MD	ReRun
17	P3658-05DL	VL041555.D	19 Aug 2024 20:09	SY/MD	Confirms
18	P3659-02	VL041556.D	19 Aug 2024 20:53	SY/MD	Dilution
19	P3659-02DL	VL041557.D	19 Aug 2024 21:36	SY/MD	Dilution

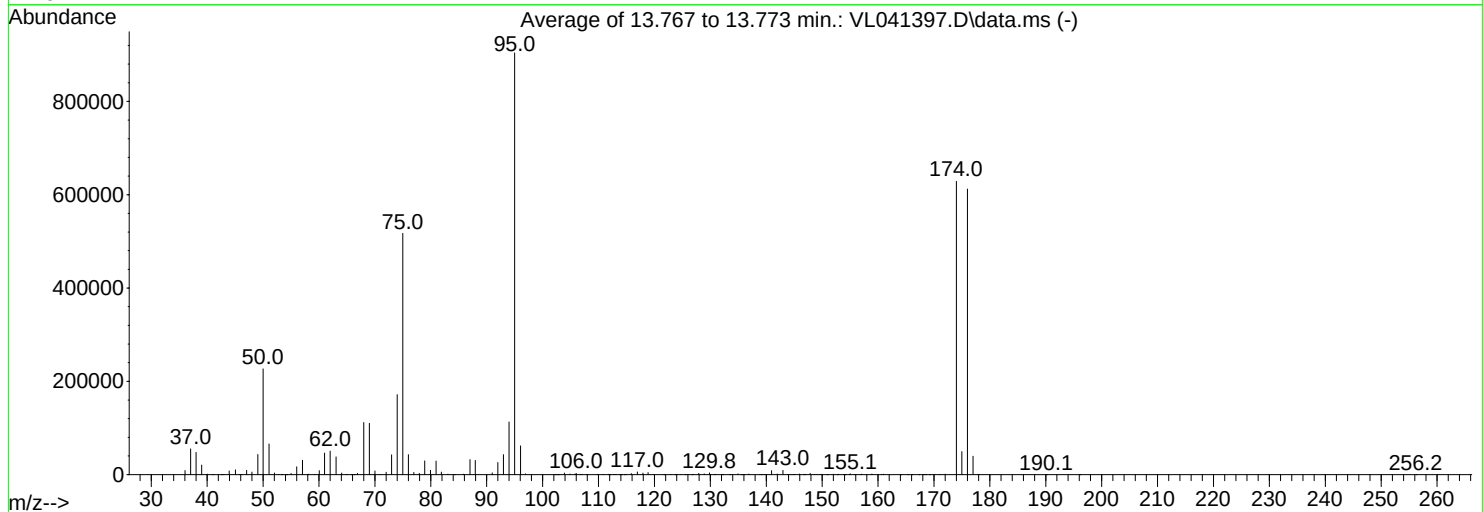
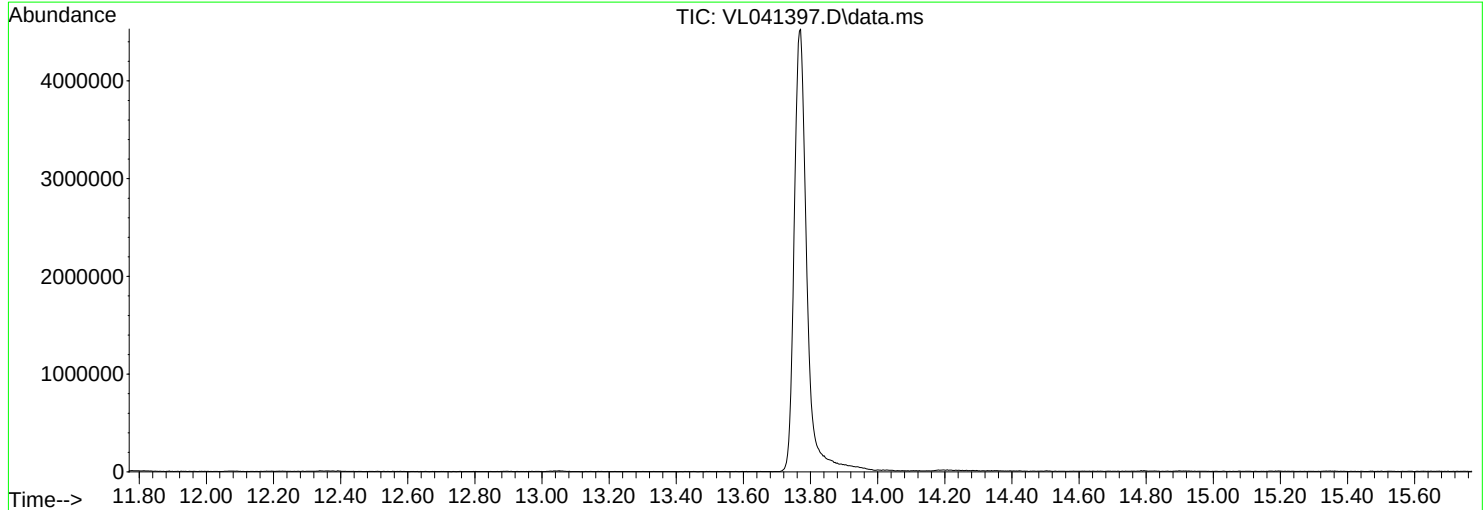
M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
Data File : VL041397.D
Acq On : 25 Jul 2024 12:29
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\VL072524AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Jul 26 07:31:14 2024



AutoFind: Scans 3472, 3473, 3474; Background Corrected with Scan 3447

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	25.1	226560	PASS
75	95	30	66	57.2	517099	PASS
95	95	100	100	100.0	904149	PASS
96	95	5	9	6.8	61827	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	69.5	628715	PASS
175	174	4	9	7.9	49563	PASS
176	174	93	101	97.4	612373	PASS
177	176	5	9	6.5	39536	PASS

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

Method File : VL072524AIR.M

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

Last Update : Fri Jul 26 07:31:14 2024

Response Via : Initial Calibration

Calibration Files

0.03=VL041404.D 0.1 =VL041403.D 0.5 =VL041398.D 1 =VL041401.D 2 =VL041400.D 10 =VL041399.D 15 =VL041405.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.883	2.019	2.126	1.425	1.148	1.720	24.23
3) Chlorodifluoro...			1.302	1.262	1.264	1.070	1.054	1.190	9.97
4) Chloromethane			0.682	0.685	0.687	0.564	0.548	0.633	11.12
5) T Vinyl Chloride	0.719	0.563	0.628	0.663	0.653	0.570	0.571	0.624	9.45
6) T Bromomethane			0.331	0.344	0.333	0.295	0.301	0.321	6.69
7) Chloroethane			0.240	0.210	0.226	0.202	0.198	0.215	8.14
8) T Dichlorotetra...			1.593	1.646	1.681	1.381	1.321	1.524	10.69
9) T Propene			0.576	0.586	0.588	0.489	0.495	0.547	9.16
10) T Heptane			1.139	1.240	1.371	1.200	1.194	1.229	7.09
11) T Trichlorofluor...			1.621	1.638	1.636	1.383	1.362	1.528	9.32
12) T 1,1,2-Trichlor...			1.154	1.154	1.201	0.999	0.992	1.100	8.85
13) Ethanol			0.044	0.066	0.065	0.035	0.035	0.049#	31.91
14) T Bromoethene			0.417	0.430	0.468	0.412	0.417	0.429	5.27
15) T Acetone			1.292	1.192	1.231	0.996	0.969	1.136	12.76
16) T 1,3-Butadiene			0.605	0.652	0.664	0.556	0.558	0.607	8.38
17) tert-Butyl alc...			1.032	1.100	0.986	1.053	1.011	1.036	4.17
18) T 1,1-Dichloroet...			0.460	0.479	0.515	0.455	0.444	0.471	5.93
19) T Isopropyl Alcohol			0.711	0.674	0.661	0.646	0.630	0.664	4.64
20) T Methylene Chlo...			0.502	0.430	0.444	0.371	0.372	0.424	12.91
21) T Allyl Chloride			0.714	0.783	0.796	0.726	0.707	0.745	5.53
22) T trans-1,2-Dich...			0.462	0.481	0.516	0.448	0.446	0.471	6.16
23) T Vinyl Acetate			0.777	0.874	0.939	0.884	0.865	0.868	6.71
24) T 1,1-Dichloroet...			1.083	1.045	1.116	0.941	0.923	1.022	8.40
25) T Ethyl Acetate			2.177	2.381	2.517	2.116	2.094	2.257	8.16
26) T Hexane			0.897	0.951	1.056	0.889	0.889	0.936	7.64
27) T Carbon Disulfide			1.055	1.020	1.160	1.120	1.122	1.095	5.18
28) T Methyl tert-Bu...			0.565	0.637	0.652	0.555	0.543	0.591	8.53
29) T Chloroform			1.554	1.612	1.659	1.414	1.398	1.527	7.65
30) T Cyclohexane			0.602	0.795	0.875	0.764	0.777	0.763	13.04
31) T cis-1,2-Dichlo...			0.879	0.937	1.022	0.890	0.896	0.925	6.35
32) T 1,1,1-Trichlor...	1.713	1.310	1.498	1.517	1.581	1.398	1.388	1.487	9.11

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.465	0.491	0.528	0.467	0.467	0.484	5.58
35) T Carbon Tetrach...	0.584	0.500	0.542	0.558	0.589	0.548	0.540	0.552	5.42
36) T Benzene			0.691	0.778	0.792	0.705	0.689	0.731	6.82
37) T 1,2-Dichloroet...			0.413	0.416	0.428	0.393	0.396	0.409	3.55
38) T Trichloroethene	0.394	0.288	0.326	0.349	0.349	0.320	0.317	0.335	9.99
39) T 1,2-Dichloropr...			0.267	0.294	0.303	0.266	0.269	0.280	6.21

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL072524AIR.M										
40) T	1,4-Dioxane			0.130	0.110	0.106	0.115	0.101	0.112	9.70
41) T	Tetrahydrofuran			0.226	0.291	0.308	0.278	0.280	0.277	11.09
42) T	Bromodichlorom...			0.573	0.613	0.622	0.576	0.568	0.591	4.26
43) T	Methyl Methacr...			0.205	0.252	0.287	0.283	0.284	0.262	13.30
44) T	2,2,4-Trimethy...			1.168	1.294	1.342	1.165	1.132	1.220	7.54
45) T	t-1,3-Dichloro...			0.166	0.202	0.248	0.287	0.302	0.241	23.76
46) T	cis-1,3-Dichlo...			0.270	0.325	0.372	0.382	0.392	0.348	14.53
47) T	1,1,2-Trichlor...			0.310	0.313	0.334	0.294	0.291	0.308	5.62
48) T	Dibromochlorom...			0.447	0.503	0.526	0.505	0.503	0.497	5.97
49) T	Bromoform			0.354	0.401	0.455	0.446	0.443	0.420	10.10
50) T	4-Methyl-2-Pen...			0.644	0.773	0.860	0.776	0.763	0.763	10.08
51) T	2-Hexanone			0.398	0.569	0.640	0.639	0.640	0.577	18.10
52) T	Tetrachloroethene	0.308	0.260	0.275	0.289	0.304	0.271	0.270	0.282	6.49
53) T	Toluene			0.678	0.851	0.889	0.829	0.822	0.814	9.86
54) T	1,2-Dibromoethane	0.340		0.377	0.424	0.463	0.429	0.429	0.410	10.74
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.401	0.401	0.412	0.372	0.353	0.388	6.36
57) T	Chlorobenzene			0.747	0.762	0.758	0.667	0.626	0.712	8.71
58) T	Ethyl Benzene			1.028	1.229	1.262	1.151	1.092	1.153	8.35
59) T	m/p-Xylene			0.934	1.065	1.083	0.979	0.914	0.995	7.68
60) T	o-Xylene			0.842	1.015	1.038	0.931	0.880	0.941	8.96
61) T	Styrene			0.313	0.424	0.468	0.464	0.455	0.425	15.32
62) T	Isopropylbenzene			1.404	1.552	1.560	1.368	1.270	1.431	8.68
63) T	1,1,2,2-Tetrac...	0.575	0.568	0.626	0.641	0.650	0.569	0.533	0.594	7.45
64) T	n-propylbenzene			0.353	0.393	0.408	0.370	0.347	0.374	6.89
65) T	tert-Butylbenzene			1.229	1.412	1.448	1.235	1.138	1.292	10.21
66) T	Benzyl Chloride			0.069	0.076	0.080	0.092	0.097	0.083	13.50
67) T	sec-Butylbenzene			1.641	1.940	2.017	1.719	1.586	1.781	10.59
68) S	1-Bromo-4-Fluo...	0.772	0.783	0.774	0.764	0.764	0.782	0.747	0.770	1.63
69) T	p-Isopropyltol...			1.299	1.617	1.674	1.453	1.346	1.478	11.11
70) T	n-Butylbenzene			1.347	1.622	1.731	1.488	1.386	1.515	10.64
71) T	2-Chlorotoluene			0.990	1.133	1.154	1.033	0.966	1.055	8.00
72) T	4-Ethyltoluene			0.976	1.143	1.229	1.138	1.054	1.108	8.70
73) T	1,3,5-Trimethy...			0.831	0.987	1.072	0.974	0.909	0.955	9.46
74) T	1,2,4-Trimethy...			1.034	1.199	1.238	1.074	1.003	1.110	9.32
75) T	1,3-Dichlorobe...			0.663	0.751	0.768	0.672	0.634	0.698	8.33
76) T	1,4-Dichlorobe...			0.673	0.710	0.716	0.656	0.623	0.676	5.74
77) T	1,2-Dichlorobe...			0.692	0.731	0.767	0.654	0.614	0.692	8.73
78) T	Hexachloro-1,3...			0.621	0.680	0.665	0.499	0.484	0.590	15.69
79) T	Naphthalene	0.490		0.808	1.106	1.252	1.125	1.096	0.980	28.67
80) T	Naphthalene,2-...			0.499	0.667	0.911	0.992	1.036	0.821	27.97
81) T	1,2,4-Trichlor...			0.504	0.606	0.646	0.587	0.573	0.583	8.95

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041398.D
 Acq On : 25 Jul 2024 13:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/26/2024
 Supervised By : Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 05:07:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Fri Jul 26 05:07:02 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1163290	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3245422	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3043708	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2357044 10.071 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.709	85	109541	0.539	ppbv	98
3) Chlorodifluoromethane	2.655	51	75741	0.549	ppbv	100
4) Chloromethane	2.793	50	39649	0.546	ppbv	96
5) Vinyl Chloride	2.906	62	36538	0.508	ppbv #	87
6) Bromomethane	3.102	94	19255	0.523	ppbv	93
7) Chloroethane	3.179	64	13984	0.572	ppbv	92
8) Dichlorotetrafluoroethane	2.838	85	92652	0.521	ppbv	93
9) Propene	2.671	41	33491	0.523	ppbv	98
10) Heptane	7.568	43	66249	0.465	ppbv	97
11) Trichlorofluoromethane	3.545	101	94267	0.536	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.050	101	67103	0.527	ppbv	99
13) Ethanol	3.237	45	2541m	0.454	ppbv	
14) Bromoethene	3.346	108	24275	0.495	ppbv #	90
15) Acetone	3.462	43	75165	0.574	ppbv	100
16) 1,3-Butadiene	2.963	39	35196m	0.505	ppbv	
17) tert-Butyl alcohol	3.870	59	59997	0.504	ppbv	99
18) 1,1-Dichloroethene	3.864	96	26744	0.484	ppbv	90
19) Isopropyl Alcohol	3.568	45	41335m	0.559	ppbv	
20) Methylene Chloride	3.915	84	29173	0.603	ppbv #	93
21) Allyl Chloride	3.979	41	41531	0.483	ppbv	94
22) trans-1,2-Dichloroethene	4.433	96	26864	0.500	ppbv	93
23) Vinyl Acetate	4.616	43	45209	0.444	ppbv #	97
24) 1,1-Dichloroethane	4.545	63	62999	0.542	ppbv #	97
25) Ethyl Acetate	5.195	43	126641	0.485	ppbv	99
26) Hexane	5.192	57	52190	0.475	ppbv	91
27) Carbon Disulfide	4.111	76	61342	0.489	ppbv #	93
28) Methyl tert-Butyl Ether	4.581	73	32882	0.475	ppbv	95
29) Chloroform	5.256	83	90359	0.503	ppbv	99
30) Cyclohexane	6.594	84	35035	0.389	ppbv #	88
31) cis-1,2-Dichloroethene	5.063	61	51136	0.472	ppbv #	87
32) 1,1,1-Trichloroethane	5.989	97	87155	0.508	ppbv	97
34) 2-Butanone	4.787	43	75522m	0.481	ppbv	
35) Carbon Tetrachloride	6.478	117	88027	0.495	ppbv	86
36) Benzene	6.356	78	112067	0.470	ppbv	95
37) 1,2-Dichloroethane	5.793	62	66949	0.507	ppbv	98
38) Trichloroethene	7.282	130	52825	0.488	ppbv	98
39) 1,2-Dichloropropane	7.060	63	43368	0.473	ppbv	95
40) 1,4-Dioxane	7.304	88	21057m	0.633	ppbv	
41) Tetrahydrofuran	5.568	42	36699	0.403	ppbv	98
42) Bromodichloromethane	7.237	83	92906	0.486	ppbv	98
43) Methyl Methacrylate	7.465	69	33258	0.386	ppbv	91
44) 2,2,4-Trimethylpentane	7.314	57	189569	0.479	ppbv	94
45) t-1,3-Dichloropropene	8.700	75	26864m	0.341	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041398.D
 Acq On : 25 Jul 2024 13:19
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 05:07:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Fri Jul 26 05:07:02 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	43823m	0.384	ppbv	
47) 1,1,2-Trichloroethane	8.886	97	50232	0.505	ppbv	95
48) Dibromochloromethane	9.700	129	72480	0.452	ppbv	100
49) Bromoform	12.400	173	57383	0.423	ppbv	95
50) 4-Methyl-2-Pentanone	8.185	43	104559m	0.417	ppbv	
51) 2-Hexanone	9.558	43	64659	0.338	ppbv #	97
52) Tetrachloroethene	10.600	164	44583	0.486	ppbv	92
53) Toluene	9.211	91	110057	0.411	ppbv	98
54) 1,2-Dibromoethane	10.002	107	61242	0.455	ppbv	89
56) 1,1,1,2-Tetrachloroethane	11.497	131	61039	0.519	ppbv #	1
57) Chlorobenzene	11.516	112	113739	0.524	ppbv	94
58) Ethyl Benzene	12.079	91	156513	0.441	ppbv	96
59) m/p-Xylene	12.365	91	284326m	0.936	ppbv	
60) o-Xylene	13.050	91	128195	0.440	ppbv	99
61) Styrene	12.889	104	47561	0.362	ppbv	94
62) Isopropylbenzene	14.018	105	213603m	0.492	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.040	83	95214	0.526	ppbv	97
64) n-propylbenzene	14.915	120	53748m	0.473	ppbv	
65) tert-Butylbenzene	16.082	119	187031m	0.476	ppbv	
66) Benzyl Chloride	16.323	91	10564m	0.422	ppbv	
67) sec-Butylbenzene	16.632	105	249741	0.458	ppbv	99
69) p-Isopropyltoluene	16.992	119	197625	0.434	ppbv	96
70) n-Butylbenzene	17.886	91	204999	0.443	ppbv	98
71) 2-Chlorotoluene	14.796	91	150717	0.465	ppbv	100
72) 4-Ethyltoluene	15.188	105	148551	0.441	ppbv	97
73) 1,3,5-Trimethylbenzene	15.346	105	126480	0.429	ppbv	92
74) 1,2,4-Trimethylbenzene	16.098	105	157396m	0.463	ppbv	
75) 1,3-Dichlorobenzene	16.326	146	100938	0.476	ppbv	94
76) 1,4-Dichlorobenzene	16.468	146	102368m	0.492	ppbv	
77) 1,2-Dichlorobenzene	17.143	146	105386m	0.503	ppbv	
78) Hexachloro-1,3-Butadiene	22.631	225	94555m	0.520	ppbv	
79) Naphthalene	21.387	128	123028m	0.412	ppbv	
80) Naphthalene,2-methyl-	24.374	142	75989	0.313	ppbv	93
81) 1,2,4-Trichlorobenzene	21.143	180	76641m	0.428	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041399.D
 Acq On : 25 Jul 2024 13:59
 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 07/26/2024
 Supervised By : Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 05:05:14 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Fri Jul 26 04:51:44 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1227171	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	3353351	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	3260833m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2550034 10.170 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.706	85	1748662	8.150	ppbv	100
3) Chlorodifluoromethane	2.652	51	1312868	9.025	ppbv	100
4) Chloromethane	2.790	50	692256	9.024	ppbv	99
5) Vinyl Chloride	2.899	62	699389	9.214	ppbv	100
6) Bromomethane	3.099	94	361665	9.227	ppbv	100
7) Chloroethane	3.176	64	248340	9.630	ppbv	100
8) Dichlorotetrafluoroethane	2.835	85	1694634	9.039	ppbv	100
9) Propene	2.671	41	600396	8.889	ppbv	100
10) Heptane	7.568	43	1472225	9.801	ppbv	99
11) Trichlorofluoromethane	3.542	101	1696907	9.145	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.047	101	1226328	9.136	ppbv	100
13) Ethanol	3.224	45	43077m	7.073	ppbv	
14) Bromoethene	3.346	108	505960	9.786	ppbv	100
15) Acetone	3.446	43	1222864	8.859	ppbv	100
16) 1,3-Butadiene	2.964	39	681843	9.269	ppbv	100
17) tert-Butyl alcohol	3.861	59	1291681	10.276	ppbv	100
18) 1,1-Dichloroethene	3.861	96	558470	9.575	ppbv	100
19) Isopropyl Alcohol	3.555	45	792740	10.155	ppbv	100
20) Methylene Chloride	3.915	84	455611	8.929	ppbv	100
21) Allyl Chloride	3.980	41	890718	9.827	ppbv	100
22) trans-1,2-Dichloroethene	4.430	96	549902	9.711	ppbv	100
23) Vinyl Acetate	4.610	43	1085315	10.104	ppbv	100
24) 1,1-Dichloroethane	4.549	63	1154644	9.415	ppbv	100
25) Ethyl Acetate	5.189	43	2597295	9.430	ppbv	100
26) Hexane	5.198	57	1090849	9.420	ppbv	100
27) Carbon Disulfide	4.105	76	1375021	10.384	ppbv	99
28) Methyl tert-Butyl Ether	4.568	73	681033	9.329	ppbv	100
29) Chloroform	5.259	83	1735318	9.163	ppbv	100
30) Cyclohexane	6.590	84	937363	9.878	ppbv	100
31) cis-1,2-Dichloroethene	5.063	61	1091838	9.548	ppbv	100
32) 1,1,1-Trichloroethane	5.989	97	1715896	9.483	ppbv	100
34) 2-Butanone	4.771	43	1567685	9.654	ppbv	100
35) Carbon Tetrachloride	6.484	117	1836059	9.983	ppbv	100
36) Benzene	6.359	78	2363293	9.591	ppbv	100
37) 1,2-Dichloroethane	5.796	62	1317693	9.664	ppbv	99
38) Trichloroethene	7.282	130	1074518	9.605	ppbv	100
39) 1,2-Dichloropropane	7.063	63	891517	9.403	ppbv	100
40) 1,4-Dioxane	7.275	88	384473	11.177	ppbv	100
41) Tetrahydrofuran	5.542	42	931064	9.892	ppbv	100
42) Bromodichloromethane	7.240	83	1932798	9.793	ppbv	100
43) Methyl Methacrylate	7.465	69	948521	10.646	ppbv	100
44) 2,2,4-Trimethylpentane	7.317	57	3907968	9.554	ppbv	100
45) t-1,3-Dichloropropene	8.703	75	963383	11.835	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041399.D
 Acq On : 25 Jul 2024 13:59
 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 07/26/2024
 Supervised By : Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 05:05:14 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Fri Jul 26 04:51:44 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	1281640	10.855	ppbv	100
47) 1,1,2-Trichloroethane	8.893	97	987016	9.602	ppbv	100
48) Dibromochloromethane	9.706	129	1692234	10.224	ppbv	100
49) Bromoform	12.404	173	1496236	10.670	ppbv	99
50) 4-Methyl-2-Pentanone	8.172	43	2603717	10.051	ppbv	100
51) 2-Hexanone	9.542	43	2141345	10.819	ppbv	100
52) Tetrachloroethene	10.613	164	907950	9.585	ppbv	100
53) Toluene	9.214	91	2779504	10.036	ppbv	100
54) 1,2-Dibromoethane	10.002	107	1438535	10.342	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.503	131	1213659	9.640	ppbv #	58
57) Chlorobenzene	11.523	112	2174265	9.343	ppbv	100
58) Ethyl Benzene	12.085	91	3752771	9.870	ppbv	100
59) m/p-Xylene	12.368	91	6382118m	19.609	ppbv	
60) o-Xylene	13.053	91	3036791	9.732	ppbv	100
61) Styrene	12.896	104	1513410	10.748	ppbv	100
62) Isopropylbenzene	14.024	105	4462038	9.595	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.040	83	1853886	9.567	ppbv	100
64) n-propylbenzene	14.912	120	1205437	9.895	ppbv	100
65) tert-Butylbenzene	16.085	119	4027165	9.564	ppbv	100
66) Benzyl Chloride	16.323	91	299511	11.162	ppbv	100
67) sec-Butylbenzene	16.635	105	5605419	9.602	ppbv	100
69) p-Isopropyltoluene	16.989	119	4737222	9.713	ppbv	100
70) n-Butylbenzene	17.883	91	4851380	9.796	ppbv	100
71) 2-Chlorotoluene	14.799	91	3368997	9.707	ppbv	100
72) 4-Ethyltoluene	15.188	105	3711228	10.293	ppbv	99
73) 1,3,5-Trimethylbenzene	15.346	105	3175291	10.049	ppbv	100
74) 1,2,4-Trimethylbenzene	16.105	105	3502689	9.621	ppbv	100
75) 1,3-Dichlorobenzene	16.330	146	2192883	9.642	ppbv	100
76) 1,4-Dichlorobenzene	16.471	146	2140459	9.596	ppbv	100
77) 1,2-Dichlorobenzene	17.140	146	2131506	9.501	ppbv	100
78) Hexachloro-1,3-Butadiene	22.628	225	1626038	8.347	ppbv	100
79) Naphthalene	21.381	128	3669460	11.481	ppbv	100
80) Naphthalene,2-methyl-	24.371	142	3235986	12.454	ppbv	100
81) 1,2,4-Trichlorobenzene	21.133	180	1912951	9.962	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041400.D
 Acq On : 25 Jul 2024 14:40
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 25 15:37:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1187869	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3361544	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	3300753	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.773 95 2521024 10.190 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.710	85	505198	2.492	ppbv	99
3) Chlorodifluoromethane	2.652	51	300375	1.467	ppbv	99
4) Chloromethane	2.793	50	163139	2.084	ppbv	96
5) Vinyl Chloride	2.899	62	155185	1.835	ppbv	99
6) Bromomethane	3.102	94	79103	2.956	ppbv	98
7) Chloroethane	3.176	64	53717	1.922	ppbv	94
8) Dichlorotetrafluoroethane	2.835	85	399415	2.027	ppbv	100
9) Propene	2.671	41	139773	1.972	ppbv	99
10) Heptane	7.568	43	325614	1.956	ppbv	100
11) Trichlorofluoromethane	3.546	101	388765	1.970	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.050	101	285420	2.064	ppbv	100
13) Ethanol	3.237	45	15410m	0.980	ppbv	
14) Bromoethene	3.346	108	111081	2.003	ppbv	93
15) Acetone	3.456	43	292550	1.865	ppbv	99
16) 1,3-Butadiene	2.967	39	157764	2.113	ppbv	99
17) tert-Butyl alcohol	3.861	59	234318	1.936	ppbv	99
18) 1,1-Dichloroethene	3.861	96	122348	2.013	ppbv	97
19) Isopropyl Alcohol	3.562	45	156947m	1.822	ppbv	
20) Methylene Chloride	3.915	84	105428	1.852	ppbv	98
21) Allyl Chloride	3.980	41	189033	1.998	ppbv	90
22) trans-1,2-Dichloroethene	4.427	96	122560	2.030	ppbv	90
23) Vinyl Acetate	4.613	43	223002	1.442	ppbv	# 98
24) 1,1-Dichloroethane	4.546	63	265124	1.977	ppbv	98
25) Ethyl Acetate	5.192	43	597999	2.070	ppbv	99
26) Hexane	5.198	57	250786	1.961	ppbv	98
27) Carbon Disulfide	4.108	76	275637	1.771	ppbv	94
28) Methyl tert-Butyl Ether	4.578	73	154942	1.633	ppbv	97
29) Chloroform	5.259	83	394045	1.997	ppbv	99
30) Cyclohexane	6.587	84	207896	2.040	ppbv	93
31) cis-1,2-Dichloroethene	5.063	61	242910	1.981	ppbv	97
32) 1,1,1-Trichloroethane	5.992	97	375703	1.814	ppbv	97
34) 2-Butanone	4.774	43	355170	2.002	ppbv	98
35) Carbon Tetrachloride	6.481	117	395969	1.784	ppbv	98
36) Benzene	6.359	78	532213	1.913	ppbv	97
37) 1,2-Dichloroethane	5.793	62	287587	1.802	ppbv	98
38) Trichloroethene	7.282	130	234513	1.935	ppbv	93
39) 1,2-Dichloropropane	7.060	63	203420	1.892	ppbv	96
40) 1,4-Dioxane	7.288	88	71274	2.068	ppbv	# 1
41) Tetrahydrofuran	5.552	42	207220	1.886	ppbv	99
42) Bromodichloromethane	7.237	83	418292	1.873	ppbv	98
43) Methyl Methacrylate	7.468	69	192639	1.843	ppbv	94
44) 2,2,4-Trimethylpentane	7.317	57	902570	1.909	ppbv	99
45) t-1,3-Dichloropropene	8.700	75	166952	2.524	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041400.D
 Acq On : 25 Jul 2024 14:40
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 25 15:37:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	249911	2.810	ppbv	97
47) 1,1,2-Trichloroethane	8.889	97	224865	1.950	ppbv	94
48) Dibromochloromethane	9.703	129	353718	1.910	ppbv	100
49) Bromoform	12.401	173	305646	2.073	ppbv	99
50) 4-Methyl-2-Pentanone	8.176	43	577958	2.029	ppbv	99
51) 2-Hexanone	9.555	43	430093	2.124	ppbv #	96
52) Tetrachloroethene	10.606	164	204374	1.829	ppbv	98
53) Toluene	9.214	91	597804	1.905	ppbv	100
54) 1,2-Dibromoethane	10.005	107	311374	2.182	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.503	131	272178	1.832	ppbv #	1
57) Chlorobenzene	11.520	112	500573	1.933	ppbv	96
58) Ethyl Benzene	12.082	91	833428	1.887	ppbv	96
59) m/p-Xylene	12.365	91	1430508m	3.743	ppbv	
60) o-Xylene	13.053	91	685320	1.900	ppbv	99
61) Styrene	12.896	104	308833	1.763	ppbv	99
62) Isopropylbenzene	14.027	105	1029899	1.850	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.044	83	428827	1.509	ppbv	98
64) n-propylbenzene	14.912	120	269236	1.852	ppbv	91
65) tert-Butylbenzene	16.085	119	956093	1.928	ppbv	100
66) Benzyl Chloride	16.326	91	52950m	1.625	ppbv	
67) sec-Butylbenzene	16.635	105	1331315	1.898	ppbv	99
69) p-Isopropyltoluene	16.992	119	1105164	1.908	ppbv	100
70) n-Butylbenzene	17.886	91	1142994	1.931	ppbv	99
71) 2-Chlorotoluene	14.799	91	762002	1.842	ppbv	99
72) 4-Ethyltoluene	15.188	105	811504	1.889	ppbv	99
73) 1,3,5-Trimethylbenzene	15.349	105	707827	1.925	ppbv	95
74) 1,2,4-Trimethylbenzene	16.105	105	817315	1.972	ppbv	95
75) 1,3-Dichlorobenzene	16.326	146	506675	2.061	ppbv	99
76) 1,4-Dichlorobenzene	16.468	146	472957	1.931	ppbv	97
77) 1,2-Dichlorobenzene	17.140	146	506084	2.019	ppbv	99
78) Hexachloro-1,3-Butadiene	22.628	225	438766	2.407	ppbv	98
79) Naphthalene	21.384	128	826782	3.710	ppbv	98
80) Naphthalene,2-methyl-	24.371	142	601537	1025.625	ppbv	99
81) 1,2,4-Trichlorobenzene	21.140	180	426225	3.095	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
Data File : VL041400.D
Acq On : 25 Jul 2024 14:40
Operator : SY/MD
Sample : VSTDIC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 07/26/2024
Supervised By : Mahesh Dadoda 07/29/2024

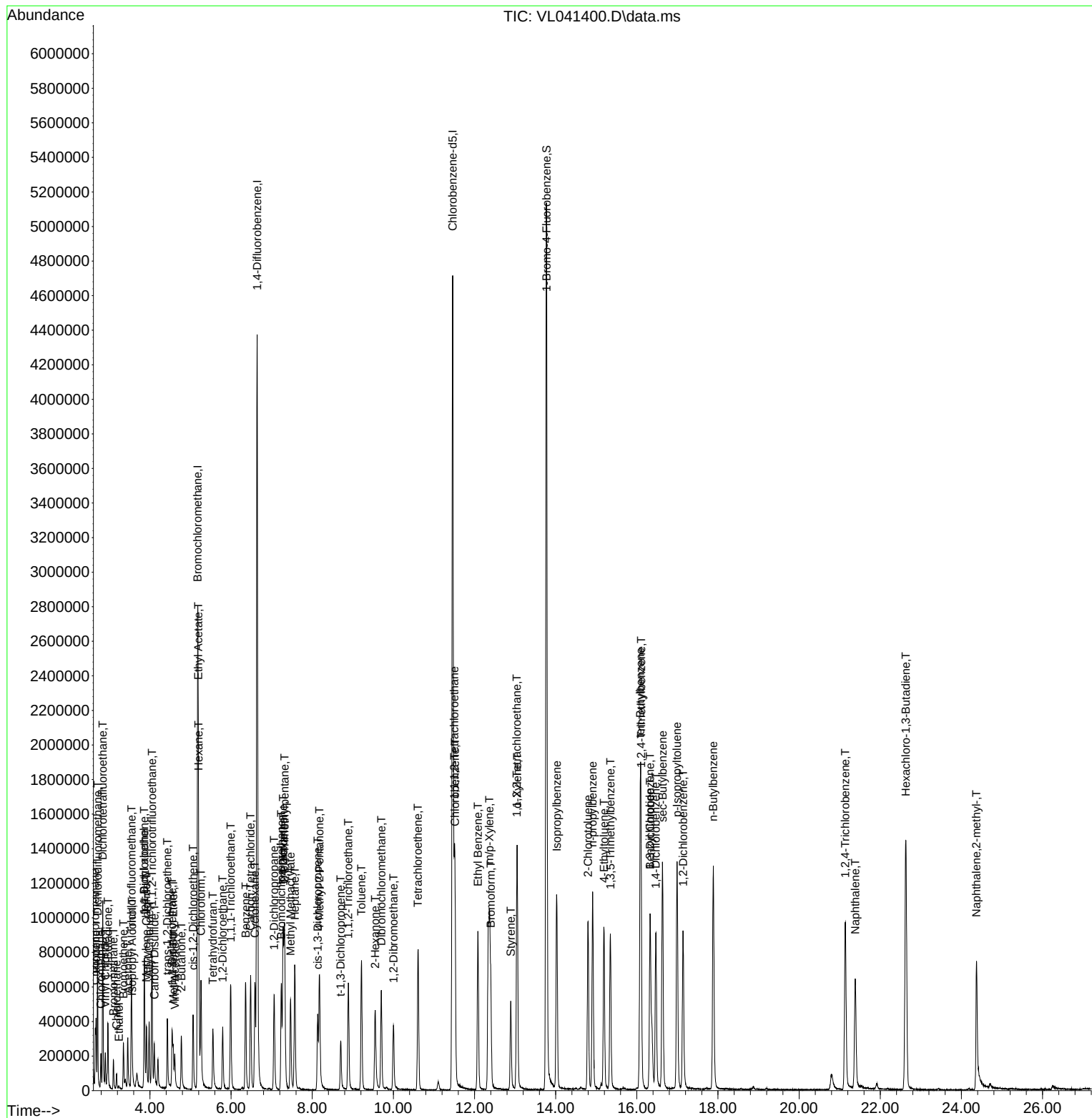
Quant Time: Jul 25 15:37:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041401.D
 Acq On : 25 Jul 2024 15:19
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:43:04 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1198624	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3342988	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.459	117	3161618	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.774 95 2414921 10.191 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.706	85	241964	1.183	ppbv	95
3) Chlorodifluoromethane	2.652	51	151299	0.732	ppbv	98
4) Chloromethane	2.793	50	82099	1.039	ppbv	96
5) Vinyl Chloride	2.899	62	79527	0.932	ppbv	98
6) Bromomethane	3.099	94	41204	1.526	ppbv	92
7) Chloroethane	3.179	64	25119	0.891	ppbv	92
8) Dichlorotetrafluoroethane	2.835	85	197281	0.992	ppbv	99
9) Propene	2.674	41	70203	0.982	ppbv	97
10) Heptane	7.568	43	148675	0.885	ppbv	96
11) Trichlorofluoromethane	3.542	101	196294	0.986	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.050	101	138368	0.992	ppbv	99
13) Ethanol	3.240	45	7925m	0.500	ppbv	
14) Bromoethene	3.350	108	51557	0.921	ppbv #	85
15) Acetone	3.456	43	142863	0.902	ppbv	97
16) 1,3-Butadiene	2.967	39	78187	1.038	ppbv	96
17) tert-Butyl alcohol	3.867	59	131833	1.080	ppbv	100
18) 1,1-Dichloroethene	3.861	96	57445	0.937	ppbv	99
19) Isopropyl Alcohol	3.568	45	80830	0.930	ppbv #	98
20) Methylene Chloride	3.912	84	51566	0.898	ppbv	96
21) Allyl Chloride	3.980	41	93864	0.983	ppbv	95
22) trans-1,2-Dichloroethene	4.433	96	57666	0.947	ppbv	91
23) Vinyl Acetate	4.613	43	104758	0.671	ppbv #	94
24) 1,1-Dichloroethane	4.546	63	125314	0.926	ppbv	100
25) Ethyl Acetate	5.195	43	285442	0.979	ppbv	98
26) Hexane	5.198	57	113990	0.883	ppbv	88
27) Carbon Disulfide	4.112	76	122266	0.779	ppbv	97
28) Methyl tert-Butyl Ether	4.575	73	76370	0.798	ppbv	99
29) Chloroform	5.259	83	193219	0.970	ppbv	91
30) Cyclohexane	6.594	84	95243m	0.926	ppbv	
31) cis-1,2-Dichloroethene	5.066	61	112360	0.908	ppbv	96
32) 1,1,1-Trichloroethane	5.986	97	181889	0.870	ppbv	99
34) 2-Butanone	4.777	43	163975	0.930	ppbv	97
35) Carbon Tetrachloride	6.481	117	186609	0.845	ppbv	99
36) Benzene	6.356	78	259942	0.940	ppbv	95
37) 1,2-Dichloroethane	5.793	62	138981	0.875	ppbv	100
38) Trichloroethene	7.279	130	116586m	0.967	ppbv	
39) 1,2-Dichloropropane	7.063	63	98425m	0.921	ppbv	
40) 1,4-Dioxane	7.298	88	36813m	1.074	ppbv	
41) Tetrahydrofuran	5.558	42	97249	0.890	ppbv	98
42) Bromodichloromethane	7.240	83	204988	0.923	ppbv	99
43) Methyl Methacrylate	7.472	69	84268	0.811	ppbv	88
44) 2,2,4-Trimethylpentane	7.317	57	432528	0.920	ppbv	99
45) t-1,3-Dichloropropene	8.706	75	67675	1.029	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041401.D
 Acq On : 25 Jul 2024 15:19
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:43:04 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	108779	1.230	ppbv	99
47) 1,1,2-Trichloroethane	8.889	97	104479	0.911	ppbv	97
48) Dibromochloromethane	9.703	129	168168	0.913	ppbv	97
49) Bromoform	12.404	173	133988	0.914	ppbv	99
50) 4-Methyl-2-Pentanone	8.182	43	258275	0.912	ppbv	96
51) 2-Hexanone	9.558	43	190138	0.944	ppbv #	100
52) Tetrachloroethene	10.613	164	96753m	0.871	ppbv	
53) Toluene	9.211	91	284562	0.912	ppbv	98
54) 1,2-Dibromoethane	10.005	107	141838	0.999	ppbv	91
56) 1,1,1,2-Tetrachloroethane	11.504	131	126753	0.891	ppbv #	1
57) Chlorobenzene	11.520	112	240871	0.971	ppbv	95
58) Ethyl Benzene	12.086	91	388676	0.919	ppbv	98
59) m/p-Xylene	12.368	91	673526m	1.840	ppbv	
60) o-Xylene	13.053	91	320813	0.929	ppbv	99
61) Styrene	12.896	104	133924	0.798	ppbv	99
62) Isopropylbenzene	14.024	105	490658	0.920	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.047	83	202749	0.745	ppbv	98
64) n-propylbenzene	14.915	120	124102	0.891	ppbv	83
65) tert-Butylbenzene	16.085	119	446299	0.940	ppbv	99
66) Benzyl Chloride	16.326	91	24142m	0.774	ppbv	
67) sec-Butylbenzene	16.632	105	613358	0.913	ppbv	99
69) p-Isopropyltoluene	16.992	119	511080	0.921	ppbv	100
70) n-Butylbenzene	17.886	91	512783	0.904	ppbv	98
71) 2-Chlorotoluene	14.796	91	358079	0.904	ppbv	100
72) 4-Ethyltoluene	15.188	105	361470	0.878	ppbv	97
73) 1,3,5-Trimethylbenzene	15.349	105	312184	0.886	ppbv	98
74) 1,2,4-Trimethylbenzene	16.101	105	379183	0.955	ppbv #	91
75) 1,3-Dichlorobenzene	16.330	146	237337	1.008	ppbv	99
76) 1,4-Dichlorobenzene	16.468	146	224373	0.956	ppbv	98
77) 1,2-Dichlorobenzene	17.140	146	231111	0.963	ppbv	98
78) Hexachloro-1,3-Butadiene	22.632	225	215079	1.232	ppbv	99
79) Naphthalene	21.387	128	349592m	1.638	ppbv	
80) Naphthalene,2-methyl-	24.374	142	210840	375.304	ppbv	98
81) 1,2,4-Trichlorobenzene	21.143	180	191623	1.452	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041403.D
 Acq On : 25 Jul 2024 16:42
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:44:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 25 14:31:18 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1207844	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3343894	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3087423	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2418801	10.453	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%
Target Compounds						
						Qvalue
5) Vinyl Chloride	2.899	62	6804	0.079	ppbv	94
32) 1,1,1-Trichloroethane	5.989	97	15825m	0.075	ppbv	
35) Carbon Tetrachloride	6.478	117	16719m	0.076	ppbv	
38) Trichloroethene	7.278	130	9639m	0.080	ppbv	
52) Tetrachloroethene	10.593	164	8679m	0.078	ppbv	
54) 1,2-Dibromoethane	9.995	107	11367m	0.080	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.040	83	17530m	0.066	ppbv	
79) Naphthalene	21.403	128	15122m	0.073	ppbv	

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

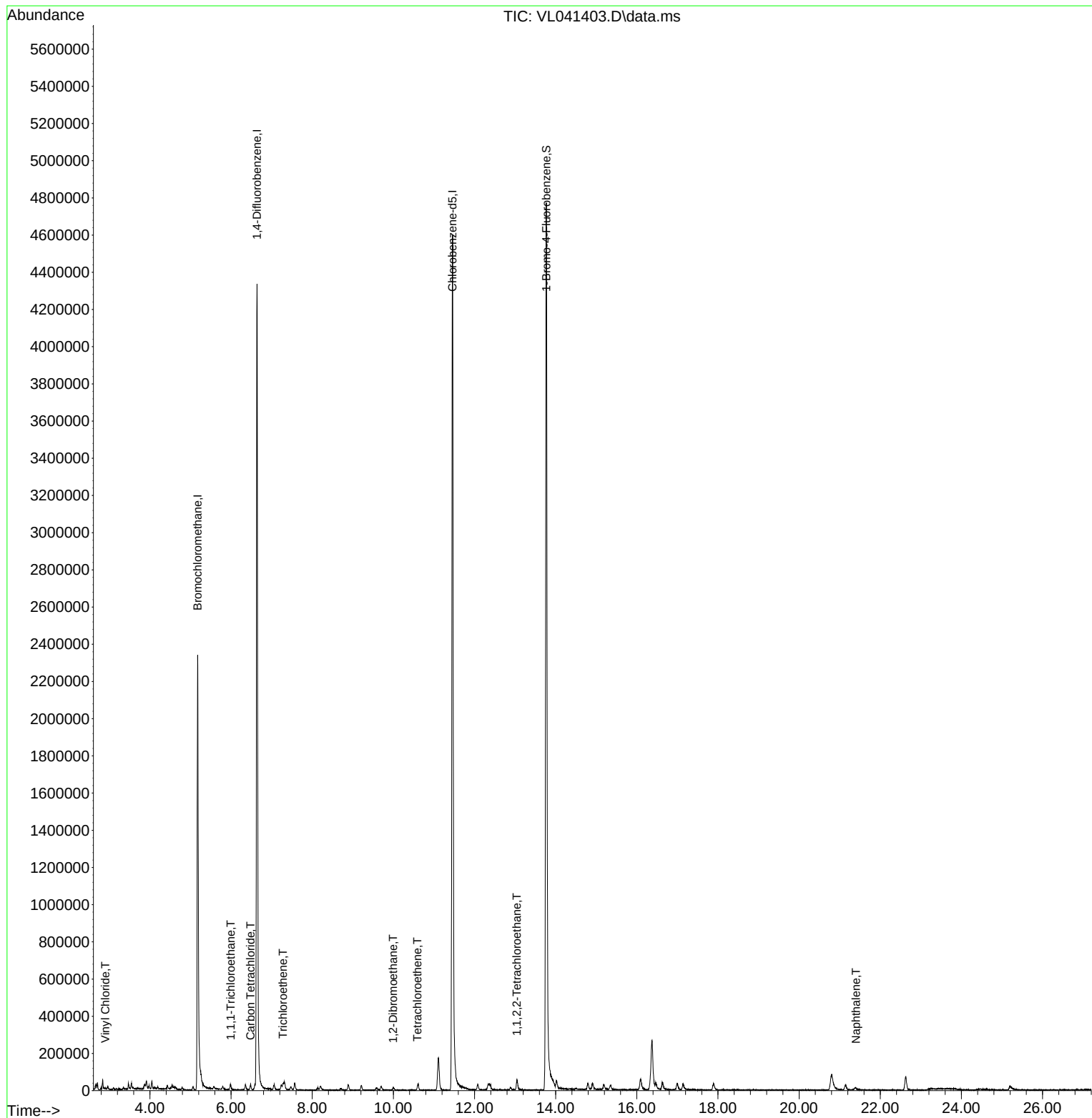
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
Data File : VL041403.D
Acq On : 25 Jul 2024 16:42
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Jul 26 02:44:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 25 14:31:18 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 07/26/2024
Supervised By : Mahesh Dadoda 07/29/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041404.D
 Acq On : 25 Jul 2024 17:24
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:45:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 25 14:31:18 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1173154	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3272729	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3056197	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2360153	10.303	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.000%	
Target Compounds						
					Qvalue	
5) Vinyl Chloride	2.899	62	2531m	0.030	ppbv	
32) 1,1,1-Trichloroethane	5.983	97	6029m	0.029	ppbv	
35) Carbon Tetrachloride	6.478	117	5730m	0.027	ppbv	
38) Trichloroethene	7.275	130	3872m	0.033	ppbv	
52) Tetrachloroethene	10.610	164	3020m	0.028	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.037	83	5269m	0.020	ppbv	

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

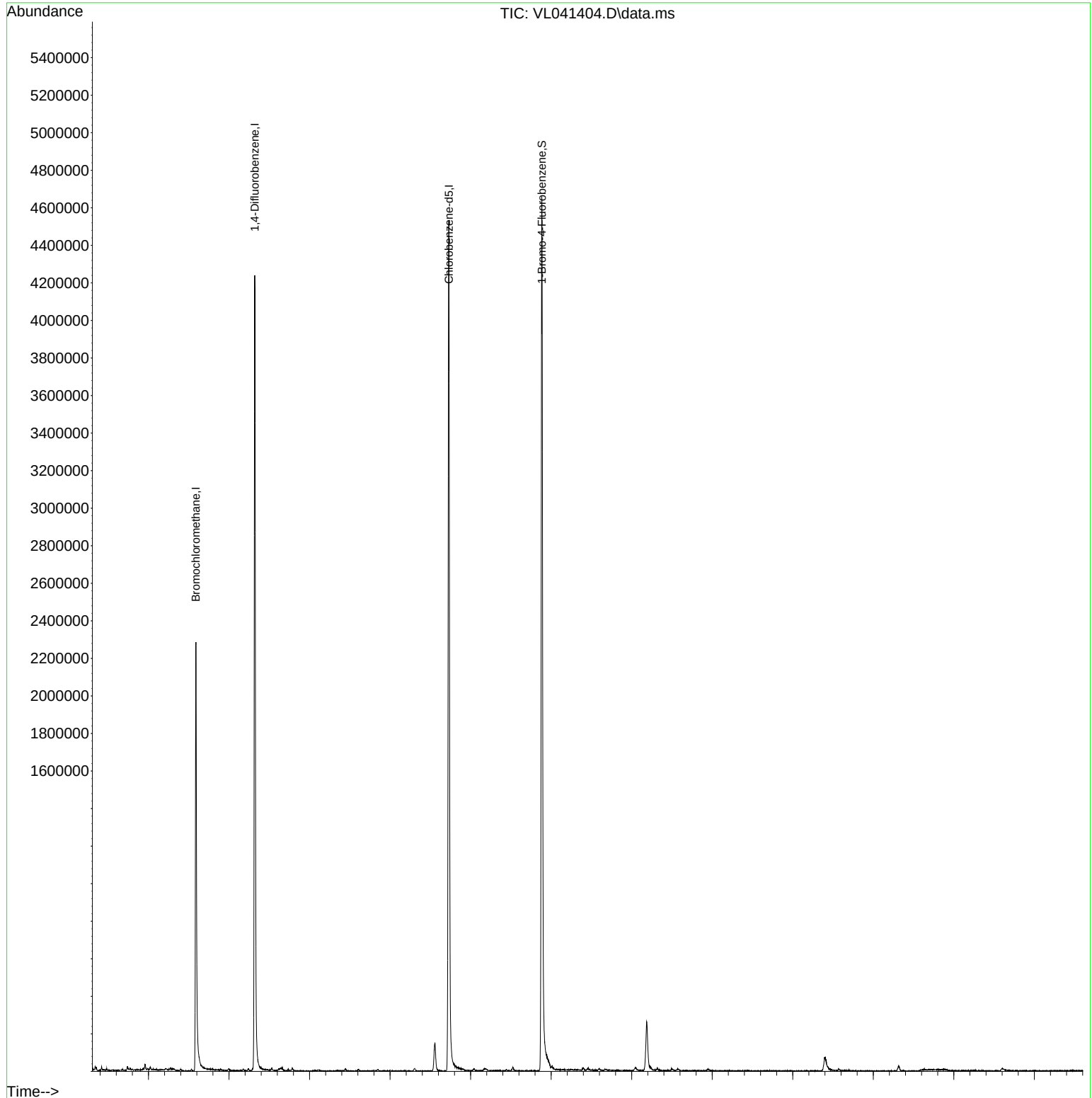
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
Data File : VL041404.D
Acq On : 25 Jul 2024 17:24
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/26/2024
Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:45:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 25 14:31:18 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041405.D
 Acq On : 25 Jul 2024 18:06
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:45:39 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	1211244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3327019	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3365868	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2515088 9.970 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.706	85	2086477	10.095	ppbv	99
3) Chlorodifluoromethane	2.652	51	1914240	9.165	ppbv	100
4) Chloromethane	2.790	50	996482	12.485	ppbv	99
5) Vinyl Chloride	2.899	62	1038128	12.036	ppbv	98
6) Bromomethane	3.099	94	547488	20.067	ppbv	96
7) Chloroethane	3.176	64	360614	12.655	ppbv	95
8) Dichlorotetrafluoroethane	2.835	85	2399417	11.943	ppbv	99
9) Propene	2.671	41	899840	12.451	ppbv	98
10) Heptane	7.571	43	2169367	12.780	ppbv	99
11) Trichlorofluoromethane	3.542	101	2473823	12.296	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.047	101	1802452	12.784	ppbv	99
13) Ethanol	3.221	45	62897m	3.923	ppbv	
14) Bromoethene	3.346	108	757933	13.400	ppbv	98
15) Acetone	3.446	43	1760479	11.005	ppbv	99
16) 1,3-Butadiene	2.964	39	1014052	13.319	ppbv	99
17) tert-Butyl alcohol	3.857	59	1836705	14.883	ppbv	99
18) 1,1-Dichloroethene	3.861	96	806522	13.011	ppbv	100
19) Isopropyl Alcohol	3.555	45	1143994	13.027	ppbv	100
20) Methylene Chloride	3.915	84	675282	11.634	ppbv	99
21) Allyl Chloride	3.980	41	1284615	13.313	ppbv	97
22) trans-1,2-Dichloroethene	4.430	96	809963	13.156	ppbv	99
23) Vinyl Acetate	4.613	43	1570687	9.960	ppbv	98
24) 1,1-Dichloroethane	4.545	63	1677304	12.269	ppbv	99
25) Ethyl Acetate	5.189	43	3804371	12.915	ppbv	100
26) Hexane	5.198	57	1615258	12.384	ppbv	98
27) Carbon Disulfide	4.105	76	2038049	12.842	ppbv	99
28) Methyl tert-Butyl Ether	4.568	73	986442	10.196	ppbv	100
29) Chloroform	5.263	83	2540539	12.624	ppbv	99
30) Cyclohexane	6.590	84	1411237	13.581	ppbv	96
31) cis-1,2-Dichloroethene	5.063	61	1628471	13.023	ppbv	100
32) 1,1,1-Trichloroethane	5.989	97	2522136	11.940	ppbv	100
34) 2-Butanone	4.771	43	2330483	13.274	ppbv	99
35) Carbon Tetrachloride	6.481	117	2695636	12.269	ppbv	98
36) Benzene	6.359	78	3438269	12.487	ppbv	100
37) 1,2-Dichloroethane	5.793	62	1975307	12.503	ppbv	100
38) Trichloroethene	7.282	130	1582683	13.195	ppbv	98
39) 1,2-Dichloropropane	7.063	63	1340584	12.599	ppbv	96
40) 1,4-Dioxane	7.269	88	505735	14.825	ppbv	80
41) Tetrahydrofuran	5.542	42	1399340	12.868	ppbv	100
42) Bromodichloromethane	7.240	83	2836611	12.832	ppbv	99
43) Methyl Methacrylate	7.465	69	1415809	13.686	ppbv	100
44) 2,2,4-Trimethylpentane	7.314	57	5650271	12.075	ppbv	99
45) t-1,3-Dichloropropene	8.703	75	1508473	23.041	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041405.D
 Acq On : 25 Jul 2024 18:06
 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 07/26/2024
 Supervised By : Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:45:39 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	1956016	22.219	ppbv	96
47) 1,1,2-Trichloroethane	8.893	97	1451859	12.721	ppbv	96
48) Dibromochloromethane	9.706	129	2512083	13.707	ppbv	100
49) Bromoform	12.404	173	2210280	15.143	ppbv	99
50) 4-Methyl-2-Pentanone	8.169	43	3807510	13.505	ppbv	99
51) 2-Hexanone	9.542	43	3193628	15.936	ppbv	100
52) Tetrachloroethene	10.610	164	1349134	12.202	ppbv	98
53) Toluene	9.214	91	4102245	13.210	ppbv	99
54) 1,2-Dibromoethane	10.002	107	2140365	15.154	ppbv	96
56) 1,1,1,2-Tetrachloroethane	11.503	131	1780102	11.753	ppbv #	58
57) Chlorobenzene	11.523	112	3158639	11.963	ppbv	98
58) Ethyl Benzene	12.082	91	5512808	12.242	ppbv	99
59) m/p-Xylene	12.365	91	9224976m	23.671	ppbv	
60) o-Xylene	13.053	91	4441698	12.076	ppbv	100
61) Styrene	12.892	104	2297760	12.864	ppbv	99
62) Isopropylbenzene	14.027	105	6413793	11.295	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.044	83	2691069	9.287	ppbv	99
64) n-propylbenzene	14.915	120	1752978	11.826	ppbv	100
65) tert-Butylbenzene	16.088	119	5746630	11.366	ppbv	99
66) Benzyl Chloride	16.323	91	487926	14.686	ppbv	99
67) sec-Butylbenzene	16.632	105	8009840	11.201	ppbv	98
69) p-Isopropyltoluene	16.992	119	6796381	11.508	ppbv	99
70) n-Butylbenzene	17.883	91	6996243	11.589	ppbv	98
71) 2-Chlorotoluene	14.796	91	4875167	11.557	ppbv	98
72) 4-Ethyltoluene	15.188	105	5320289	12.144	ppbv	97
73) 1,3,5-Trimethylbenzene	15.349	105	4587750	12.234	ppbv	99
74) 1,2,4-Trimethylbenzene	16.105	105	5066348	11.990	ppbv	97
75) 1,3-Dichlorobenzene	16.330	146	3202871	12.778	ppbv	100
76) 1,4-Dichlorobenzene	16.471	146	3142958	12.585	ppbv	100
77) 1,2-Dichlorobenzene	17.140	146	3101661	12.137	ppbv	99
78) Hexachloro-1,3-Butadiene	22.628	225	2444092	13.150	ppbv	99
79) Naphthalene	21.381	128	5532989	24.347	ppbv	99
80) Naphthalene,2-methyl-	24.368	142	5230189	8744.993	ppbv	100
81) 1,2,4-Trichlorobenzene	21.136	180	2891669	20.588	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041406.D
 Acq On : 25 Jul 2024 19:31
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072524

Quant Time: Jul 29 01:38:18 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Fri Jul 26 07:31:14 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/29/2024
 Supervised By : Mahesh Dadoda 07/29/2024

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

Internal Standards						
1) Bromochloromethane	5.176	49	1233360	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3392081	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	3403283m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2574566 9.830 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.709	85	2089346	9.847	ppbv	98
3) Chlorodifluoromethane	2.655	51	1318682	8.981	ppbv	99
4) Chloromethane	2.793	50	699978	8.963	ppbv	100
5) Vinyl Chloride	2.899	62	713101	9.264	ppbv	97
6) Bromomethane	3.099	94	364517	9.214	ppbv	95
7) Chloroethane	3.176	64	252261	9.496	ppbv	96
8) Dichlorotetrafluoroethane	2.835	85	1697946	9.031	ppbv	99
9) Propene	2.674	41	639582	9.482	ppbv	96
10) Heptane	7.568	43	1491349	9.841	ppbv	99
11) Trichlorofluoromethane	3.545	101	1658278	8.800	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.050	101	1213196	8.941	ppbv	99
13) Ethanol	3.224	45	37793m	6.269	ppbv	
14) Bromoethene	3.346	108	507449	9.593	ppbv	100
15) Acetone	3.449	43	1230438	8.780	ppbv	99
16) 1,3-Butadiene	2.964	39	668082	8.923	ppbv	96
17) tert-Butyl alcohol	3.857	59	1324286	10.362	ppbv	100
18) 1,1-Dichloroethene	3.861	96	557323	9.602	ppbv	98
19) Isopropyl Alcohol	3.555	45	721368	8.805	ppbv	99
20) Methylene Chloride	3.915	84	448788	8.588	ppbv	97
21) Allyl Chloride	3.980	41	895495	9.744	ppbv	99
22) trans-1,2-Dichloroethene	4.430	96	558720	9.627	ppbv	99
23) Vinyl Acetate	4.610	43	1095721	10.238	ppbv	99
24) 1,1-Dichloroethane	4.545	63	1130815	8.974	ppbv	100
25) Ethyl Acetate	5.189	43	2667366	9.581	ppbv	99
26) Hexane	5.198	57	1124469	9.737	ppbv	99
27) Carbon Disulfide	4.105	76	1334231	9.875	ppbv	98
28) Methyl tert-Butyl Ether	4.571	73	697129	9.572	ppbv	99
29) Chloroform	5.259	83	1729039	9.179	ppbv	97
30) Cyclohexane	6.587	84	960876	10.217	ppbv	100
31) cis-1,2-Dichloroethene	5.063	61	1119982	9.817	ppbv	95
32) 1,1,1-Trichloroethane	5.989	97	1701553	9.280	ppbv	99
34) 2-Butanone	4.771	43	1622167	9.886	ppbv	100
35) Carbon Tetrachloride	6.481	117	1763315	9.425	ppbv	99
36) Benzene	6.359	78	2398715	9.678	ppbv	99
37) 1,2-Dichloroethane	5.793	62	1330637	9.592	ppbv	99
38) Trichloroethene	7.282	130	1077080	9.485	ppbv	98
39) 1,2-Dichloropropane	7.063	63	922512	9.722	ppbv	97
40) 1,4-Dioxane	7.278	88	291753	7.654	ppbv #	37
41) Tetrahydrofuran	5.542	42	998498	10.640	ppbv	99
42) Bromodichloromethane	7.240	83	1912987	9.550	ppbv	98
43) Methyl Methacrylate	7.465	69	968598	10.898	ppbv	99
44) 2,2,4-Trimethylpentane	7.314	57	3920496	9.470	ppbv	100
45) t-1,3-Dichloropropene	8.700	75	983393	12.021	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041406.D
 Acq On : 25 Jul 2024 19:31
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072524

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/29/2024
 Supervised By : Mahesh Dadoda 07/29/2024

Quant Time: Jul 29 01:38:18 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Fri Jul 26 07:31:14 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	1301297	11.015	ppbv	96
47) 1,1,2-Trichloroethane	8.893	97	988701	9.452	ppbv	97
48) Dibromochloromethane	9.703	129	1650868	9.797	ppbv	100
49) Bromoform	12.404	173	1471871	10.340	ppbv	99
50) 4-Methyl-2-Pentanone	8.169	43	2646380	10.222	ppbv	99
51) 2-Hexanone	9.542	43	2152180	10.994	ppbv #	100
52) Tetrachloroethene	10.606	164	919784	9.604	ppbv	99
53) Toluene	9.211	91	2811445	10.183	ppbv	99
54) 1,2-Dibromoethane	10.002	107	1435862	10.313	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.503	131	1179925	8.940	ppbv #	56
57) Chlorobenzene	11.519	112	2154494	8.892	ppbv	98
58) Ethyl Benzene	12.082	91	3742890	9.542	ppbv	97
59) m/p-Xylene	12.368	91	6295312m	18.591	ppbv	
60) o-Xylene	13.053	91	3021924	9.434	ppbv	99
61) Styrene	12.889	104	1515228	10.485	ppbv	99
62) Isopropylbenzene	14.021	105	4395572	9.026	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.037	83	1799183	8.895	ppbv	99
64) n-propylbenzene	14.908	120	1178085	9.254	ppbv	99
65) tert-Butylbenzene	16.082	119	3927896	8.930	ppbv	100
66) Benzyl Chloride	16.326	91	311587m	11.045	ppbv	
67) sec-Butylbenzene	16.629	105	5460239	9.010	ppbv	99
69) p-Isopropyltoluene	16.989	119	4608861	9.165	ppbv	100
70) n-Butylbenzene	17.879	91	4724502	9.165	ppbv	100
71) 2-Chlorotoluene	14.793	91	3319940	9.245	ppbv	100
72) 4-Ethyltoluene	15.185	105	3595789	9.535	ppbv	99
73) 1,3,5-Trimethylbenzene	15.346	105	3106784	9.563	ppbv	99
74) 1,2,4-Trimethylbenzene	16.101	105	3420961	9.057	ppbv	98
75) 1,3-Dichlorobenzene	16.323	146	2143246	9.027	ppbv	100
76) 1,4-Dichlorobenzene	16.468	146	2089633	9.089	ppbv	100
77) 1,2-Dichlorobenzene	17.137	146	2088726	8.874	ppbv	100
78) Hexachloro-1,3-Butadiene	22.625	225	1608282	8.012	ppbv	100
79) Naphthalene	21.374	128	3604007	10.810	ppbv	99
80) Naphthalene,2-methyl-	24.365	142	3294736	11.790	ppbv	100
81) 1,2,4-Trichlorobenzene	21.130	180	1888152	9.517	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041406.D
 Acq On : 25 Jul 2024 19:31
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072524

Quant Time: Jul 29 01:38:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 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	101	0.00
2 T	Dichlorodifluoromethane	1.720	1.694	1.5	119	0.00
3	Chlorodifluoromethane	1.190	1.069	10.2	100	0.00
4	Chloromethane	0.633	0.568	10.3	101	0.00
5 T	Vinyl Chloride	0.624	0.578	7.4	102	0.00
6 T	Bromomethane	0.321	0.296	7.8	101	0.00
7	Chloroethane	0.215	0.205	4.7	102	0.00
8 T	Dichlorotetrafluoroethane	1.524	1.377	9.6	100	0.00
9 T	Propene	0.547	0.519	5.1	107	0.00
10 T	Heptane	1.229	1.209	1.6	101	0.00
11 T	Trichlorofluoromethane	1.528	1.345	12.0	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.100	0.984	10.5	99	0.00
13	Ethanol	0.049	0.031#	36.7#	88	0.00
14 T	Bromoethene	0.429	0.411	4.2	100	0.00
15 T	Acetone	1.136	0.998	12.1	101	0.00
16 T	1,3-Butadiene	0.607	0.542	10.7	98	0.00
17	tert-Butyl alcohol	1.036	1.074	-3.7	103	0.00
18 T	1,1-Dichloroethene	0.471	0.452	4.0	100	0.00
19 T	Isopropyl Alcohol	0.664	0.585	11.9	91	0.00
20 T	Methylene Chloride	0.424	0.364	14.2	99	0.00
21 T	Allyl Chloride	0.745	0.726	2.6	101	0.00
22 T	trans-1,2-Dichloroethene	0.471	0.453	3.8	102	0.00
23 T	Vinyl Acetate	0.868	0.888	-2.3	101	0.00
24 T	1,1-Dichloroethane	1.022	0.917	10.3	98	0.00
25 T	Ethyl Acetate	2.257	2.163	4.2	103	0.00
26 T	Hexane	0.936	0.912	2.6	103	0.00
27 T	Carbon Disulfide	1.095	1.082	1.2	97	0.00
28 T	Methyl tert-Butyl Ether	0.591	0.565	4.4	102	0.00
29 T	Chloroform	1.527	1.402	8.2	100	0.00
30 T	Cyclohexane	0.763	0.779	-2.1	103	0.00
31 T	cis-1,2-Dichloroethene	0.925	0.908	1.8	103	0.00
32 T	1,1,1-Trichloroethane	1.487	1.380	7.2	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
34 T	2-Butanone	0.484	0.478	1.2	103	0.00
35 T	Carbon Tetrachloride	0.552	0.520	5.8	96	0.00
36 T	Benzene	0.731	0.707	3.3	101	0.00
37 T	1,2-Dichloroethane	0.409	0.392	4.2	101	0.00
38 T	Trichloroethene	0.335	0.318	5.1	100	0.00
39 T	1,2-Dichloropropane	0.280	0.272	2.9	103	0.00
40 T	1,4-Dioxane	0.112	0.086	23.2	76	0.00
41 T	Tetrahydrofuran	0.277	0.294	-6.1	107	0.00
42 T	Bromodichloromethane	0.591	0.564	4.6	99	0.00
43	Methyl Methacrylate	0.262	0.286	-9.2	102	0.00
44 T	2,2,4-Trimethylpentane	1.220	1.156	5.2	100	0.00
45 T	t-1,3-Dichloropropene	0.241	0.290	-20.3	102	0.00
46 T	cis-1,3-Dichloropropene	0.348	0.384	-10.3	102	0.00
47 T	1,1,2-Trichloroethane	0.308	0.291	5.5	100	0.00
48 T	Dibromochloromethane	0.497	0.487	2.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041406.D
 Acq On : 25 Jul 2024 19:31
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072524

Quant Time: Jul 29 01:38:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 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	0.420	0.434	-3.3	98	0.00
50 T	4-Methyl-2-Pentanone	0.763	0.780	-2.2	102	0.00
51 T	2-Hexanone	0.577	0.634	-9.9	101	0.00
52 T	Tetrachloroethene	0.282	0.271	3.9	101	0.00
53 T	Toluene	0.814	0.829	-1.8	101	0.00
54 T	1,2-Dibromoethane	0.410	0.423	-3.2	100	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
56	1,1,1,2-Tetrachloroethane	0.388	0.347	10.6	97	0.00
57 T	Chlorobenzene	0.712	0.633	11.1	99	0.00
58 T	Ethyl Benzene	1.153	1.100	4.6	100	0.00
59 T	m/p-Xylene	0.995	0.925	7.0	99	0.00
60 T	o-Xylene	0.941	0.888	5.6	100	0.00
61 T	Styrene	0.425	0.445	-4.7	100	0.00
62	Isopropylbenzene	1.431	1.292	9.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.594	0.529	10.9	97	0.00
64	n-propylbenzene	0.374	0.346	7.5	98	0.00
65	tert-Butylbenzene	1.292	1.154	10.7	98	0.00
66 T	Benzyl Chloride	0.083	0.092	-10.8	104	0.00
67	sec-Butylbenzene	1.781	1.604	9.9	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.770	0.756	1.8	101	0.00
69	p-Isopropyltoluene	1.478	1.354	8.4	97	0.00
70	n-Butylbenzene	1.515	1.388	8.4	97	0.00
71	2-Chlorotoluene	1.055	0.976	7.5	99	0.00
72 T	4-Ethyltoluene	1.108	1.057	4.6	97	0.00
73 T	1,3,5-Trimethylbenzene	0.955	0.913	4.4	98	0.00
74 T	1,2,4-Trimethylbenzene	1.110	1.005	9.5	98	0.00
75 T	1,3-Dichlorobenzene	0.698	0.630	9.7	98	0.00
76 T	1,4-Dichlorobenzene	0.676	0.614	9.2	98	0.00
77 T	1,2-Dichlorobenzene	0.692	0.614	11.3	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.590	0.473	19.8	99	0.00
79 T	Naphthalene	0.980	1.059	-8.1	98	0.00
80 T	Naphthalene,2-methyl-	0.821	0.968	-17.9	102	0.00
81 T	1,2,4-Trichlorobenzene	0.583	0.555	4.8	99	0.00

(#) = Out of Range

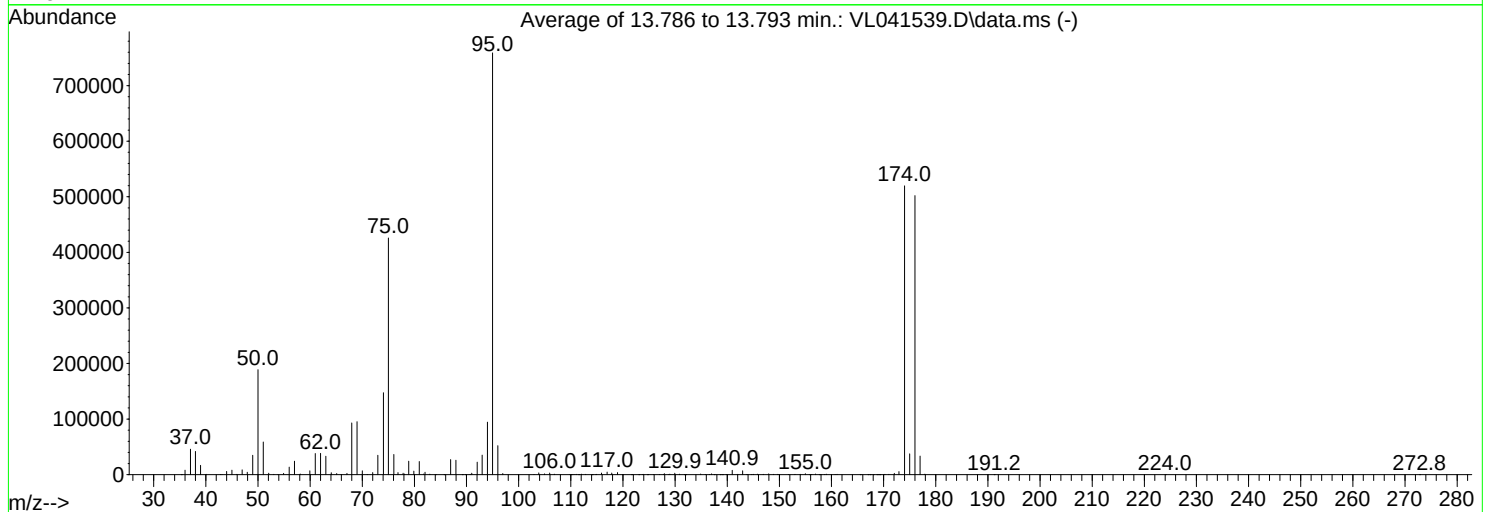
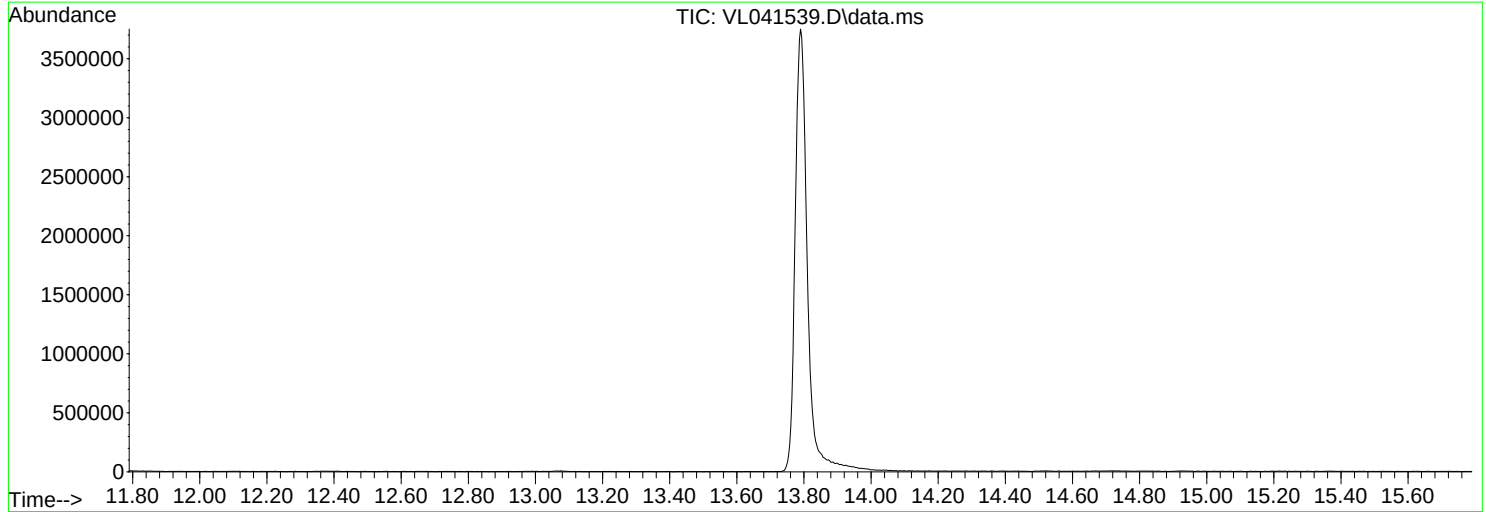
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
Data File : VL041539.D
Acq On : 19 Aug 2024 8:10
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\VL072524AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Aug 20 02:10:04 2024



AutoFind: Scans 3478, 3479, 3480; Background Corrected with Scan 3456

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	188907	PASS
75	95	30	66	56.1	425728	PASS
95	95	100	100	100.0	758997	PASS
96	95	5	9	6.9	52083	PASS
173	174	0.00	2	1.0	5439	PASS
174	95	50	120	68.5	519701	PASS
175	174	4	9	7.2	37573	PASS
176	174	93	101	96.6	502080	PASS
177	176	5	9	6.6	33307	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041540.D
 Acq On : 19 Aug 2024 8:59
 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 : Semsettin Yesilyurt 08/20/2024
 Supervised By : Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:13:28 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	949994	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2559374	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.491	117	2515938m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.799 95 1947516 10.059 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.748	85	884681	5.413	ppbv	99
3) Chlorodifluoromethane	2.693	51	1159695	10.254	ppbv	100
4) Chloromethane	2.832	50	629369	10.463	ppbv	99
5) Vinyl Chloride	2.938	62	619805	10.454	ppbv	99
6) Bromomethane	3.137	94	327691	10.754	ppbv	92
7) Chloroethane	3.214	64	229324	11.207	ppbv	97
8) Dichlorotetrafluoroethane	2.874	85	1383474	9.554	ppbv	100
9) Propene	2.713	41	521016	10.029	ppbv	98
10) Heptane	7.597	43	1321671	11.323	ppbv	99
11) Trichlorofluoromethane	3.581	101	1519219	10.467	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.082	101	1094070	10.468	ppbv	98
13) Ethanol	3.256	45	36044m	7.762	ppbv	
14) Bromoethene	3.385	108	440924	10.821	ppbv	99
15) Acetone	3.484	43	1130098	10.470	ppbv	100
16) 1,3-Butadiene	3.002	39	624120	10.822	ppbv	97
17) tert-Butyl alcohol	3.893	59	1096646	11.140	ppbv	100
18) 1,1-Dichloroethene	3.899	96	487068	10.895	ppbv	92
19) Isopropyl Alcohol	3.591	45	651343	10.322	ppbv #	96
20) Methylene Chloride	3.951	84	412911	10.258	ppbv	98
21) Allyl Chloride	4.012	41	770702	10.888	ppbv	100
22) trans-1,2-Dichloroethene	4.462	96	491446	10.994	ppbv	98
23) Vinyl Acetate	4.642	43	966046	11.719	ppbv #	98
24) 1,1-Dichloroethane	4.581	63	1045215	10.768	ppbv	99
25) Ethyl Acetate	5.221	43	2381732	11.107	ppbv	99
26) Hexane	5.230	57	979260	11.009	ppbv	99
27) Carbon Disulfide	4.144	76	1163109	11.177	ppbv	99
28) Methyl tert-Butyl Ether	4.603	73	587594	10.474	ppbv	100
29) Chloroform	5.295	83	1547234	10.664	ppbv	99
30) Cyclohexane	6.623	84	817710	11.288	ppbv	99
31) cis-1,2-Dichloroethene	5.095	61	948884	10.798	ppbv	98
32) 1,1,1-Trichloroethane	6.021	97	1527033	10.812	ppbv	99
34) 2-Butanone	4.803	43	1405398	11.352	ppbv	99
35) Carbon Tetrachloride	6.513	117	1609727	11.403	ppbv	99
36) Benzene	6.391	78	2059410	11.012	ppbv	99
37) 1,2-Dichloroethane	5.825	62	1153588	11.021	ppbv	99
38) Trichloroethene	7.311	130	978782	11.424	ppbv	97
39) 1,2-Dichloropropane	7.095	63	811438	11.333	ppbv	97
40) 1,4-Dioxane	7.307	88	311632	10.835	ppbv	78
41) Tetrahydrofuran	5.574	42	831216	11.739	ppbv	98
42) Bromodichloromethane	7.269	83	1693152	11.203	ppbv	99
43) Methyl Methacrylate	7.494	69	821493	12.250	ppbv	97
44) 2,2,4-Trimethylpentane	7.343	57	3513799	11.249	ppbv	99
45) t-1,3-Dichloropropene	8.729	75	843236	13.661	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041540.D
 Acq On : 19 Aug 2024 8:59
 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 : Semsettin Yesilyurt 08/20/2024
 Supervised By : Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:13:28 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 20 02:13:28 2024

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.163	75	1113175	12.489	ppbv	97
47) 1,1,2-Trichloroethane	8.918	97	874878	11.085	ppbv	96
48) Dibromochloromethane	9.732	129	1471389	11.573	ppbv	100
49) Bromoform	12.429	173	1290363	12.015	ppbv	99
50) 4-Methyl-2-Pentanone	8.198	43	2348083	12.021	ppbv	100
51) 2-Hexanone	9.571	43	1889904	12.796	ppbv #	98
52) Tetrachloroethene	10.635	164	785134	10.865	ppbv	98
53) Toluene	9.240	91	2434932	11.689	ppbv	100
54) 1,2-Dibromoethane	10.031	107	1279830	12.183	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.529	131	1082376	11.093	ppbv #	57
57) Chlorobenzene	11.545	112	1917343	10.704	ppbv	99
58) Ethyl Benzene	12.111	91	3295215	11.363	ppbv	100
59) m/p-Xylene	12.394	91	5677231m	22.679	ppbv	
60) o-Xylene	13.079	91	2717555	11.476	ppbv	100
61) Styrene	12.918	104	1314555	12.305	ppbv	99
62) Isopropylbenzene	14.050	105	3944805	10.958	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.069	83	1675653	11.206	ppbv	99
64) n-propylbenzene	14.937	120	1056999	11.231	ppbv	95
65) tert-Butylbenzene	16.111	119	3568987	10.976	ppbv	100
66) Benzyl Chloride	16.346	91	294537	14.122	ppbv	98
67) sec-Butylbenzene	16.658	105	5012445	11.189	ppbv	99
69) p-Isopropyltoluene	17.018	119	4225410	11.366	ppbv	100
70) n-Butylbenzene	17.908	91	4335585	11.376	ppbv	100
71) 2-Chlorotoluene	14.822	91	2983953	11.240	ppbv	99
72) 4-Ethyltoluene	15.214	105	3230798	11.588	ppbv	98
73) 1,3,5-Trimethylbenzene	15.371	105	2794784	11.636	ppbv	98
74) 1,2,4-Trimethylbenzene	16.127	105	3136247	11.232	ppbv	97
75) 1,3-Dichlorobenzene	16.355	146	1953807	11.131	ppbv	100
76) 1,4-Dichlorobenzene	16.494	146	1933808	11.378	ppbv	98
77) 1,2-Dichlorobenzene	17.162	146	1900542	10.922	ppbv	100
78) Hexachloro-1,3-Butadiene	22.657	225	1416463	9.546	ppbv	99
79) Naphthalene	21.410	128	3145958	12.765	ppbv	99
80) Naphthalene,2-methyl-	24.390	142	2696816	13.054	ppbv	100
81) 1,2,4-Trichlorobenzene	21.162	180	1663658	11.343	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041541.D
 Acq On : 19 Aug 2024 10:07
 Operator : SY/MD
 Sample : VL0819ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0819ABL01

Quant Time: Aug 20 02:14:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 20 02:10:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	895764	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2374230	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2131055	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1588219	9.684	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%

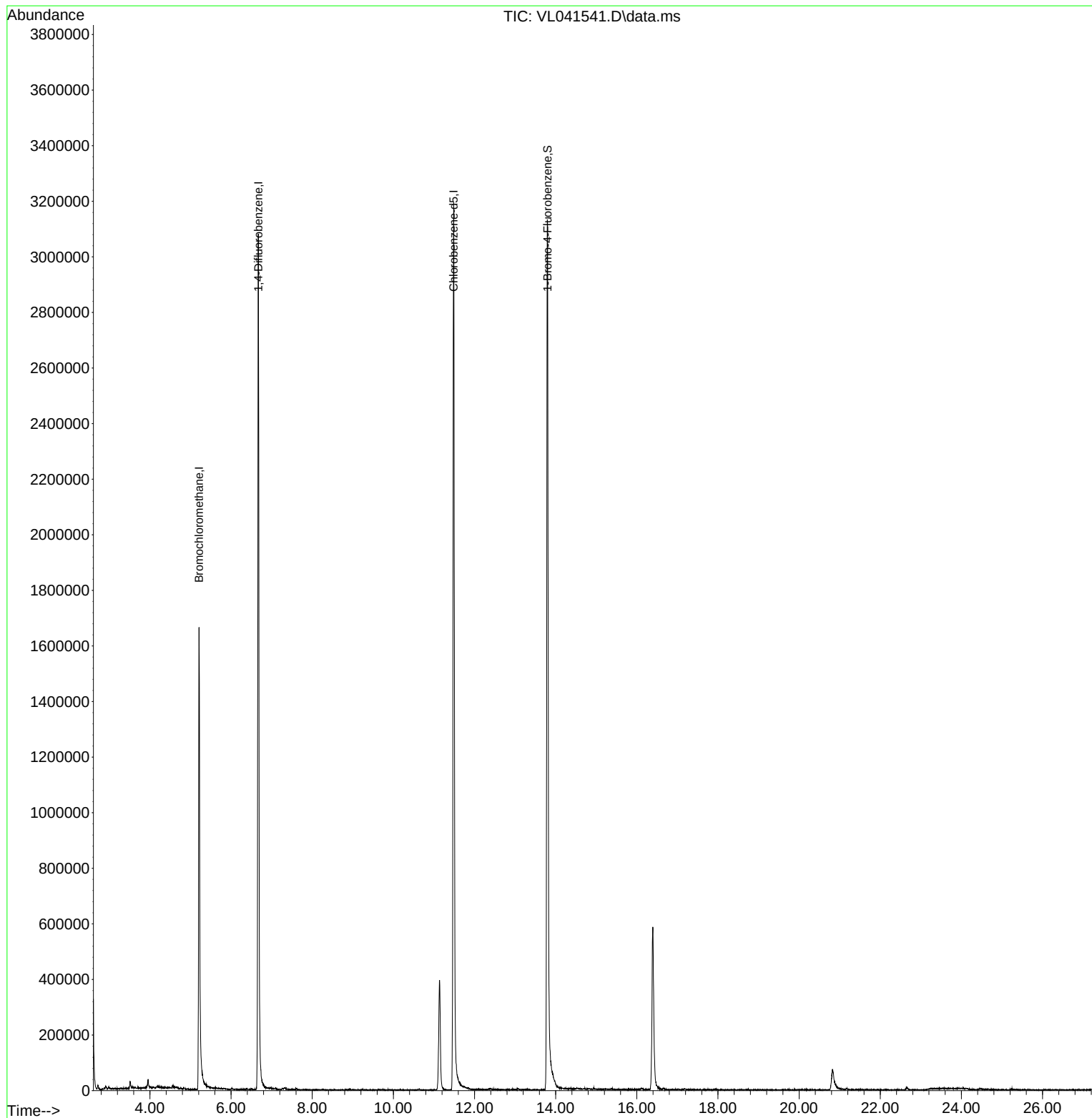
Target Compounds	Qvalue

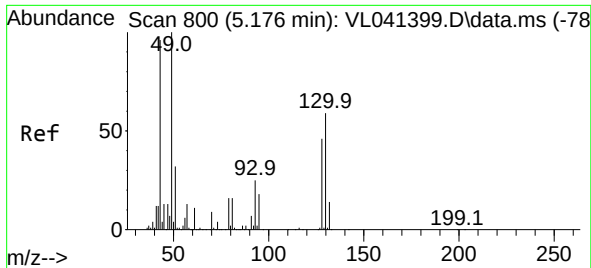
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
Data File : VL041541.D
Acq On : 19 Aug 2024 10:07
Operator : SY/MD
Sample : VL0819ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0819ABL01

Quant Time: Aug 20 02:14:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Aug 20 02:10:04 2024
Response via : Initial Calibration

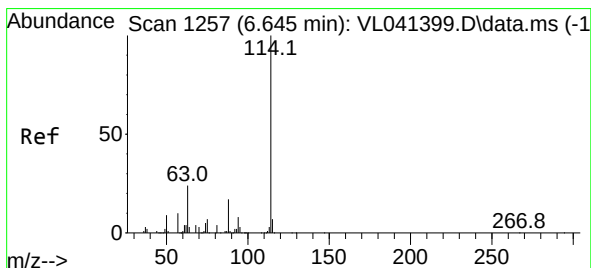
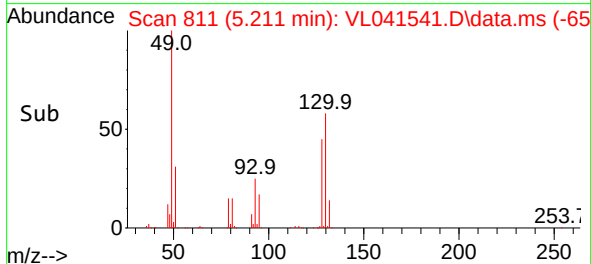
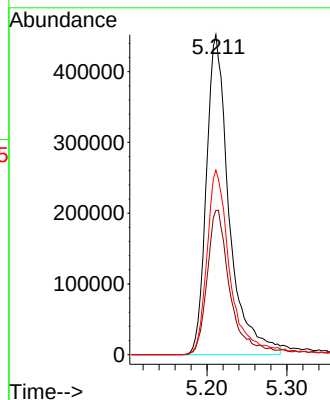
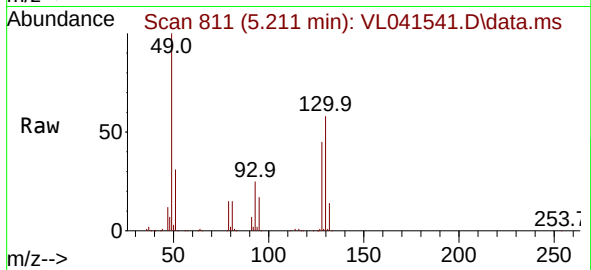




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL041541.D
Acq: 19 Aug 2024 10:07

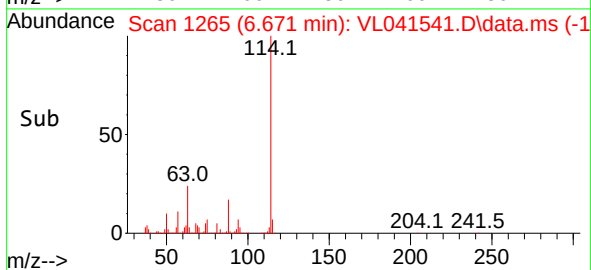
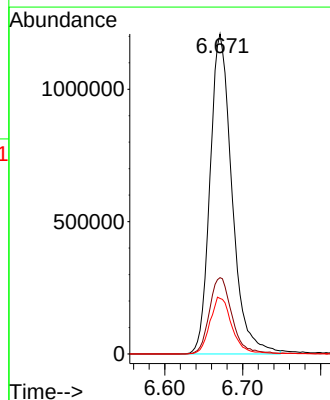
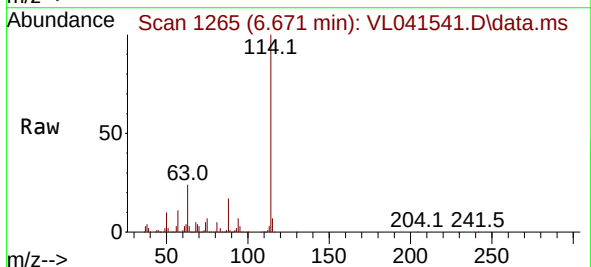
Instrument :
MSVOA_L
ClientSampleId :
VL0819ABL01

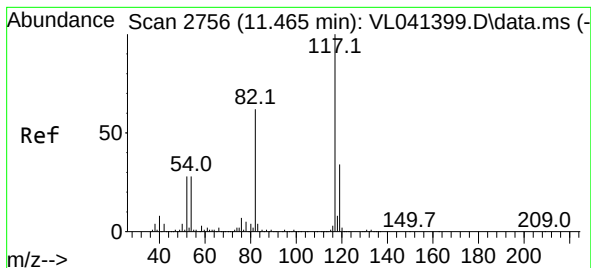
Tgt Ion: 49 Resp: 895764
Ion Ratio Lower Upper
49 100
128 47.0 23.8 71.4
130 61.2 30.8 92.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.671 min Scan# 1265
Delta R.T. 0.000 min
Lab File: VL041541.D
Acq: 19 Aug 2024 10:07

Tgt Ion: 114 Resp: 2374230
Ion Ratio Lower Upper
114 100
63 24.9 20.3 30.5
88 17.9 14.3 21.5

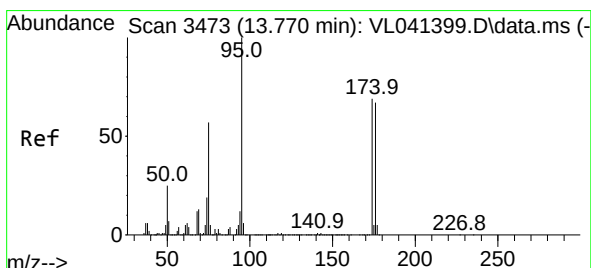
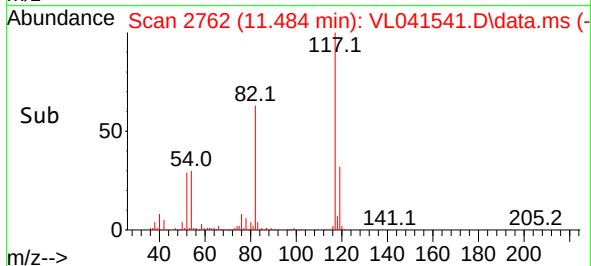
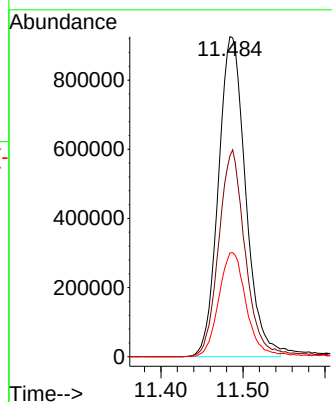
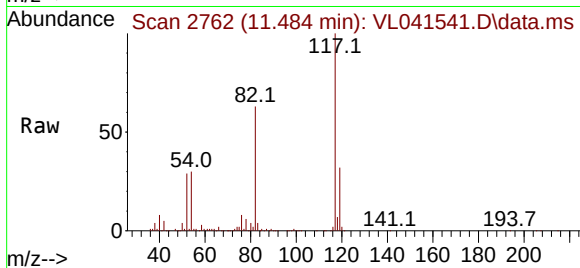




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041541.D
Acq: 19 Aug 2024 10:07

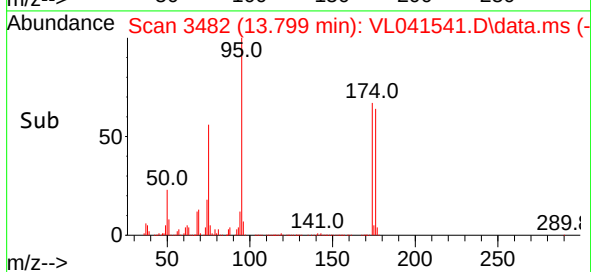
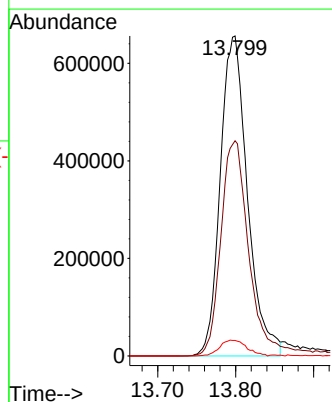
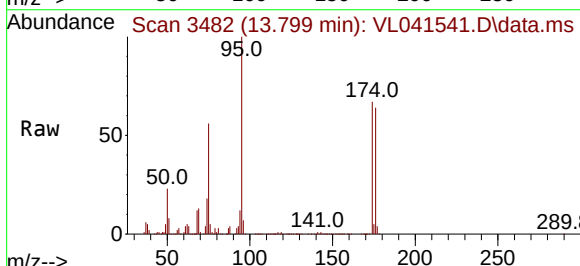
Instrument :
MSVOA_L
ClientSampleId :
VL0819ABL01

Tgt Ion:117 Resp: 2131055
Ion Ratio Lower Upper
117 100
82 65.1 51.0 76.6
119 33.2 45.2 67.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.684 ppbv
RT: 13.799 min Scan# 3482
Delta R.T. 0.000 min
Lab File: VL041541.D
Acq: 19 Aug 2024 10:07

Tgt Ion: 95 Resp: 1588219
Ion Ratio Lower Upper
95 100
174 71.7 56.3 84.5
175 5.1 4.0 6.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041540.D
 Acq On : 19 Aug 2024 8:59
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 20 02:13:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 20 02:10:04 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	77	0.00
2 T	Dichlorodifluoromethane	1.720	0.931	45.9#	51	0.00
3	Chlorodifluoromethane	1.190	1.221	-2.6	88	0.00
4	Chloromethane	0.633	0.662	-4.6	91	0.00
5 T	Vinyl Chloride	0.624	0.652	-4.5	89	0.00
6 T	Bromomethane	0.321	0.345	-7.5	91	0.00
7	Chloroethane	0.215	0.241	-12.1	92	0.00
8 T	Dichlorotetrafluoroethane	1.524	1.456	4.5	82	0.00
9 T	Propene	0.547	0.548	-0.2	87	0.00
10 T	Heptane	1.229	1.391	-13.2	90	0.00
11 T	Trichlorofluoromethane	1.528	1.599	-4.6	90	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.100	1.152	-4.7	89	0.00
13	Ethanol	0.049	0.038#	22.4	84	0.00
14 T	Bromoethene	0.429	0.464	-8.2	87	0.00
15 T	Acetone	1.136	1.190	-4.8	92	0.00
16 T	1,3-Butadiene	0.607	0.657	-8.2	92	0.00
17	tert-Butyl alcohol	1.036	1.154	-11.4	85	0.00
18 T	1,1-Dichloroethene	0.471	0.513	-8.9	87	0.00
19 T	Isopropyl Alcohol	0.664	0.686	-3.3	82	0.00
20 T	Methylene Chloride	0.424	0.435	-2.6	91	0.00
21 T	Allyl Chloride	0.745	0.811	-8.9	87	0.00
22 T	trans-1,2-Dichloroethene	0.471	0.517	-9.8	89	0.00
23 T	Vinyl Acetate	0.868	1.017	-17.2	89	0.00
24 T	1,1-Dichloroethane	1.022	1.100	-7.6	91	0.00
25 T	Ethyl Acetate	2.257	2.507	-11.1	92	0.00
26 T	Hexane	0.936	1.031	-10.1	90	0.00
27 T	Carbon Disulfide	1.095	1.224	-11.8	85	0.00
28 T	Methyl tert-Butyl Ether	0.591	0.619	-4.7	86	0.00
29 T	Chloroform	1.527	1.629	-6.7	89	0.00
30 T	Cyclohexane	0.763	0.861	-12.8	87	0.00
31 T	cis-1,2-Dichloroethene	0.925	0.999	-8.0	87	0.00
32 T	1,1,1-Trichloroethane	1.487	1.607	-8.1	89	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
34 T	2-Butanone	0.484	0.549	-13.4	90	0.00
35 T	Carbon Tetrachloride	0.552	0.629	-13.9	88	0.00
36 T	Benzene	0.731	0.805	-10.1	87	0.00
37 T	1,2-Dichloroethane	0.409	0.451	-10.3	88	0.00
38 T	Trichloroethene	0.335	0.382	-14.0	91	0.00
39 T	1,2-Dichloropropane	0.280	0.317	-13.2	91	0.00
40 T	1,4-Dioxane	0.112	0.122	-8.9	81	0.00
41 T	Tetrahydrofuran	0.277	0.325	-17.3	89	0.00
42 T	Bromodichloromethane	0.591	0.662	-12.0	88	0.00
43	Methyl Methacrylate	0.262	0.321	-22.5	87	0.00
44 T	2,2,4-Trimethylpentane	1.220	1.373	-12.5	90	0.00
45 T	t-1,3-Dichloropropene	0.241	0.329	-36.5#	88	0.00
46 T	cis-1,3-Dichloropropene	0.348	0.435	-25.0	87	0.00
47 T	1,1,2-Trichloroethane	0.308	0.342	-11.0	89	0.00
48 T	Dibromochloromethane	0.497	0.575	-15.7	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041540.D
 Acq On : 19 Aug 2024 8:59
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 20 02:13:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 20 02:10:04 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	0.420	0.504	-20.0	86	0.00
50 T	4-Methyl-2-Pentanone	0.763	0.917	-20.2	90	0.00
51 T	2-Hexanone	0.577	0.738	-27.9	88	0.00
52 T	Tetrachloroethene	0.282	0.307	-8.9	86	0.00
53 T	Toluene	0.814	0.951	-16.8	88	0.00
54 T	1,2-Dibromoethane	0.410	0.500	-22.0	89	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	77	0.00
56	1,1,1,2-Tetrachloroethane	0.388	0.430	-10.8	89	0.00
57 T	Chlorobenzene	0.712	0.762	-7.0	88	0.00
58 T	Ethyl Benzene	1.153	1.310	-13.6	88	0.00
59 T	m/p-Xylene	0.995	1.128	-13.4	89	0.00
60 T	o-Xylene	0.941	1.080	-14.8	89	0.00
61 T	Styrene	0.425	0.522	-22.8	87	0.00
62	Isopropylbenzene	1.431	1.568	-9.6	88	0.00
63 T	1,1,2,2-Tetrachloroethane	0.594	0.666	-12.1	90	0.00
64	n-propylbenzene	0.374	0.420	-12.3	88	0.00
65	tert-Butylbenzene	1.292	1.419	-9.8	89	0.00
66 T	Benzyl Chloride	0.083	0.117	-41.0#	98	0.00
67	sec-Butylbenzene	1.781	1.992	-11.8	89	0.00
68 S	1-Bromo-4-Fluorobenzene	0.770	0.774	-0.5	76	0.00
69	p-Isopropyltoluene	1.478	1.679	-13.6	89	0.00
70	n-Butylbenzene	1.515	1.723	-13.7	89	0.00
71	2-Chlorotoluene	1.055	1.186	-12.4	89	0.00
72 T	4-Ethyltoluene	1.108	1.284	-15.9	87	0.00
73 T	1,3,5-Trimethylbenzene	0.955	1.111	-16.3	88	0.00
74 T	1,2,4-Trimethylbenzene	1.110	1.247	-12.3	90	0.00
75 T	1,3-Dichlorobenzene	0.698	0.777	-11.3	89	0.00
76 T	1,4-Dichlorobenzene	0.676	0.769	-13.8	90	0.00
77 T	1,2-Dichlorobenzene	0.692	0.755	-9.1	89	0.00
78 T	Hexachloro-1,3-Butadiene	0.590	0.563	4.6	87	0.00
79 T	Naphthalene	0.980	1.250	-27.6	86	0.00
80 T	Naphthalene,2-methyl-	0.821	1.072	-30.6#	83	0.00
81 T	1,2,4-Trichlorobenzene	0.583	0.661	-13.4	87	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041542.D
 Acq On : 19 Aug 2024 10:48
 Operator : SY/MD
 Sample : VL0819ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0819ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
 Supervised By :Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:14:35 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	953834	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2568604	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	2570572	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.796 95 1934486 9.779 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.748	85	866011	5.278	ppbv	100
3) Chlorodifluoromethane	2.694	51	1148497	10.115	ppbv	100
4) Chloromethane	2.832	50	626957	10.381	ppbv	99
5) Vinyl Chloride	2.941	62	632244	10.621	ppbv	96
6) Bromomethane	3.141	94	337860	11.043	ppbv	98
7) Chloroethane	3.214	64	227400	11.069	ppbv	96
8) Dichlorotetrafluoroethane	2.877	85	1381485	9.502	ppbv	99
9) Propene	2.713	41	529749	10.156	ppbv	98
10) Heptane	7.600	43	1331349	11.360	ppbv	100
11) Trichlorofluoromethane	3.581	101	1495695	10.264	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.086	101	1072747	10.223	ppbv	100
13) Ethanol	3.259	45	36448m	7.818	ppbv	
14) Bromoethene	3.385	108	429951	10.510	ppbv	99
15) Acetone	3.488	43	1136536	10.487	ppbv	99
16) 1,3-Butadiene	3.005	39	616058	10.640	ppbv	99
17) tert-Butyl alcohol	3.896	59	1138725	11.521	ppbv	100
18) 1,1-Dichloroethene	3.899	96	490575	10.929	ppbv	96
19) Isopropyl Alcohol	3.594	45	662593	10.458	ppbv #	98
20) Methylene Chloride	3.951	84	468002	11.580	ppbv	95
21) Allyl Chloride	4.015	41	776304	10.923	ppbv	100
22) trans-1,2-Dichloroethene	4.465	96	469979	10.471	ppbv	97
23) Vinyl Acetate	4.645	43	984169	11.890	ppbv #	98
24) 1,1-Dichloroethane	4.581	63	1033773	10.608	ppbv	99
25) Ethyl Acetate	5.224	43	2417577	11.229	ppbv	99
26) Hexane	5.234	57	1027698	11.507	ppbv	97
27) Carbon Disulfide	4.144	76	1155043	11.055	ppbv	99
28) Methyl tert-Butyl Ether	4.603	73	589223	10.461	ppbv	100
29) Chloroform	5.295	83	1534946	10.536	ppbv	99
30) Cyclohexane	6.623	84	826550	11.364	ppbv	99
31) cis-1,2-Dichloroethene	5.099	61	959317	10.873	ppbv	99
32) 1,1,1-Trichloroethane	6.025	97	1517453	10.701	ppbv	100
34) 2-Butanone	4.806	43	1409794	11.346	ppbv	100
35) Carbon Tetrachloride	6.513	117	1592749	11.242	ppbv	98
36) Benzene	6.391	78	2079587	11.080	ppbv	98
37) 1,2-Dichloroethane	5.829	62	1168791	11.126	ppbv	100
38) Trichloroethene	7.311	130	970933	11.292	ppbv	97
39) 1,2-Dichloropropane	7.095	63	802701	11.171	ppbv	96
40) 1,4-Dioxane	7.308	88	276693	9.586	ppbv #	52
41) Tetrahydrofuran	5.574	42	830620	11.688	ppbv	98
42) Bromodichloromethane	7.269	83	1674518	11.039	ppbv	98
43) Methyl Methacrylate	7.494	69	830856	12.345	ppbv	99
44) 2,2,4-Trimethylpentane	7.346	57	3498360	11.160	ppbv	99
45) t-1,3-Dichloropropene	8.732	75	832465	13.438	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041542.D
 Acq On : 19 Aug 2024 10:48
 Operator : SY/MD
 Sample : VL0819ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0819ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
 Supervised By :Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:14:35 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.166	75	1134089	12.678	ppbv	98
47) 1,1,2-Trichloroethane	8.922	97	871843	11.007	ppbv	98
48) Dibromochloromethane	9.732	129	1455263	11.405	ppbv	100
49) Bromoform	12.430	173	1269504	11.778	ppbv	99
50) 4-Methyl-2-Pentanone	8.201	43	2350707	11.991	ppbv	99
51) 2-Hexanone	9.571	43	1863582	12.572	ppbv #	99
52) Tetrachloroethene	10.639	164	782284	10.787	ppbv	98
53) Toluene	9.243	91	2430940	11.628	ppbv	100
54) 1,2-Dibromoethane	10.031	107	1250868	11.865	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.529	131	1071372	10.747	ppbv #	59
57) Chlorobenzene	11.549	112	1920481	10.493	ppbv	98
58) Ethyl Benzene	12.111	91	3271939	11.043	ppbv	98
59) m/p-Xylene	12.391	91	5625619m	21.995	ppbv	
60) o-Xylene	13.079	91	2684986	11.097	ppbv	100
61) Styrene	12.918	104	1314788	12.045	ppbv	98
62) Isopropylbenzene	14.050	105	3916892	10.649	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.069	83	1660380	10.867	ppbv	100
64) n-propylbenzene	14.937	120	1051699	10.937	ppbv	95
65) tert-Butylbenzene	16.111	119	3561329	10.720	ppbv	100
66) Benzyl Chloride	16.349	91	293870	13.791	ppbv	99
67) sec-Butylbenzene	16.658	105	4963512	10.844	ppbv	100
69) p-Isopropyltoluene	17.015	119	4185466	11.019	ppbv	99
70) n-Butylbenzene	17.908	91	4322218	11.100	ppbv	100
71) 2-Chlorotoluene	14.822	91	2956439	10.899	ppbv	99
72) 4-Ethyltoluene	15.214	105	3303117	11.596	ppbv	99
73) 1,3,5-Trimethylbenzene	15.372	105	2807444	11.440	ppbv	98
74) 1,2,4-Trimethylbenzene	16.130	105	3111891	10.908	ppbv	99
75) 1,3-Dichlorobenzene	16.352	146	1936719	10.799	ppbv	100
76) 1,4-Dichlorobenzene	16.494	146	1874477	10.794	ppbv	99
77) 1,2-Dichlorobenzene	17.166	146	1866349	10.498	ppbv	100
78) Hexachloro-1,3-Butadiene	22.654	225	1419954	9.366	ppbv	100
79) Naphthalene	21.407	128	3143301	12.483	ppbv	99
80) Naphthalene,2-methyl-	24.394	142	2571622	12.183	ppbv	99
81) 1,2,4-Trichlorobenzene	21.166	180	1655281	11.046	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041545.D
 Acq On : 19 Aug 2024 12:51
 Operator : SY/MD
 Sample : QC081424 CAN 10054
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC081424 CAN 10054

Quant Time: Aug 20 02:16:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 20 02:10:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.214	49	919015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2504237	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.491	117	2251168	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1729778	9.985	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
Data File : VL041545.D
Acq On : 19 Aug 2024 12:51
Operator : SY/MD
Sample : QC081424 CAN 10054
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC081424 CAN 10054

Quant Time: Aug 20 02:16:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Aug 20 02:10:04 2024
Response via : Initial Calibration

