

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL122921\
 Data File : VL038233.D
 Acq On : 29 Dec 2021 15:14
 Operator : SY/AP
 Sample : VL1229ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1229ABS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/30/2021
 Supervised By :Semsettin Yesilyurt 01/02/2022

Quant Time: Dec 29 19:01:21 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Tue Dec 21 17:47:08 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	721435	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1943044	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1656741m	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1440608	11.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.06	85	1157390	8.514	ppbv	97
3) Chlorodifluoromethane	3.00	51	1325032	8.741	ppbv	97
4) Chloromethane	3.15	50	444693	8.460	ppbv	99
5) Vinyl Chloride	3.27	62	466617	8.832	ppbv	99
6) Bromomethane	3.48	94	259818	9.651	ppbv	96
7) Chloroethane	3.57	64	160322	9.011	ppbv	96
8) Dichlorotetrafluoroethane	3.20	85	1108011	8.588	ppbv	94
9) Propene	3.02	41	423383	8.043	ppbv	97
10) Heptane	8.13	43	1131847	8.477	ppbv	99
11) Trichlorofluoromethane	3.96	101	1136198	9.101	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.50	101	788907	8.366	ppbv	99
13) Ethanol	3.62	45	55708m	6.242	ppbv	
14) Bromoethene	3.75	108	350120	9.320	ppbv	97
15) Acetone	3.86	43	569420	7.864	ppbv	100
16) 1,3-Butadiene	3.34	39	440355	8.928	ppbv	100
17) tert-Butyl alcohol	4.30	59	685553	8.621	ppbv	99
18) 1,1-Dichloroethene	4.30	96	349490	8.463	ppbv	100
19) Isopropyl Alcohol	3.98	45	378086	8.372	ppbv #	39
20) Methylene Chloride	4.36	84	293647	7.183	ppbv	93
21) Allyl Chloride	4.42	41	543500	8.874	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	385354	9.146	ppbv	96
23) Vinyl Acetate	5.08	43	865527	8.829	ppbv	99
24) 1,1-Dichloroethane	5.02	63	747493	8.526	ppbv	99
25) Ethyl Acetate	5.69	43	1769939	9.023	ppbv	99
26) Hexane	5.70	57	810315	8.233	ppbv	96
27) Carbon Disulfide	4.56	76	973672	11.239	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	787460	7.962	ppbv	100
29) Chloroform	5.76	83	1311560	8.980	ppbv	98
30) Cyclohexane	7.14	84	680740	7.809	ppbv	89
31) cis-1,2-Dichloroethene	5.56	61	803047	10.404	ppbv	91
32) 1,1,1-Trichloroethane	6.52	97	1329562	9.175	ppbv	97
34) 2-Butanone	5.25	43	618009	10.582	ppbv	98
35) Carbon Tetrachloride	7.03	117	1395274	11.633	ppbv	99
36) Benzene	6.90	78	1698878	9.374	ppbv	98
37) 1,2-Dichloroethane	6.32	62	995223	10.944	ppbv	97
38) Trichloroethene	7.84	130	611792	8.870	ppbv	96
39) 1,2-Dichloropropane	7.62	63	664944	9.533	ppbv	96
40) 1,4-Dioxane	7.84	88	178835m	8.813	ppbv	
41) Tetrahydrofuran	6.06	42	434806	10.165	ppbv	96
42) Bromodichloromethane	7.80	83	1470854	11.367	ppbv	99
43) Methyl Methacrylate	8.02	69	645553	10.350	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	2848990	9.254	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	598337	12.962	ppbv	97
46) cis-1,3-Dichloropropene	8.71	75	737351	11.540	ppbv	95
47) 1,1,2-Trichloroethane	9.48	97	659912	9.115	ppbv	96
48) Dibromochloromethane	10.31	129	1165128	11.445	ppbv	99
49) Bromoform	13.05	173	834526	11.537	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	1183927	11.150	ppbv	97
51) 2-Hexanone	10.15	43	540744	10.640	ppbv #	96
52) Tetrachloroethene	11.23	164	530356	7.928	ppbv	92
53) Toluene	9.81	91	1881659	8.998	ppbv	98
54) 1,2-Dibromoethane	10.62	107	960548	9.353	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	722350	10.483	ppbv #	57
57) Chlorobenzene	12.15	112	1271490	8.849	ppbv	98
58) Ethyl Benzene	12.72	91	2423178	9.425	ppbv	97
59) m/p-Xylene	13.00	91	4180006m	19.018	ppbv	
60) o-Xylene	13.70	91	1867717	9.165	ppbv	97
61) Styrene	13.53	104	986318	9.556	ppbv	97
62) Isopropylbenzene	14.67	105	2517569	8.800	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	1323070	8.443	ppbv	99
64) n-propylbenzene	15.56	120	618897	8.701	ppbv	87
65) tert-Butylbenzene	16.75	119	2132424	8.468	ppbv	95
66) Benzyl Chloride	16.99	91	139320	14.844	ppbv	95
67) sec-Butylbenzene	17.30	105	2995794	8.658	ppbv	100
69) p-Isopropyltoluene	17.66	119	2378730	8.547	ppbv	98
70) n-Butylbenzene	18.55	91	2446841	9.247	ppbv	98
71) 2-Chlorotoluene	15.46	91	1892478	8.887	ppbv	97
72) 4-Ethyltoluene	15.84	105	2090261	8.907	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	1862075	8.867	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	1943141	8.810	ppbv	94
75) 1,3-Dichlorobenzene	17.00	146	1061574	8.910	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	1025935	8.679	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	995746	8.729	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	609342m	8.657	ppbv	
79) Naphthalene	22.20	128	1172991	10.295	ppbv	99
80) Naphthalene,2-methyl-	24.97	142	186342	8.243	ppbv	92
81) 1,2,4-Trichlorobenzene	21.93	180	621087	9.532	ppbv	99

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

