

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033877.D
 Acq On : 7 Jun 2019 3:59
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 9:18:27 AM

Quant Time: Jun 07 08:52:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	991353	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2289227	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	2193346	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1882418	10.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	101954	0.509 ppbv	98
3) Chlorodifluoromethane	3.01	51	63389	0.555 ppbv	100
4) Chloromethane	3.16	50	34898	0.535 ppbv	90
5) Vinyl Chloride	3.29	62	32328	0.486 ppbv	94
6) Bromomethane	3.51	94	21244	0.523 ppbv	90
7) Chloroethane	3.60	64	12743	0.537 ppbv	95
8) Dichlorotetrafluoroethane	3.21	85	90404	0.529 ppbv	98
9) Propene	3.03	41	21453	0.451 ppbv	98
10) Heptane	8.23	43	43266	0.321 ppbv	96
11) Trichlorofluoromethane	3.99	101	108157	0.539 ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.54	101	75421	0.540 ppbv	96
13) Ethanol	3.64	45	9071m	0.592 ppbv	
14) Bromoethene	3.78	108	25125	0.481 ppbv	95
15) Acetone	3.90	43	83105	0.605 ppbv	100
16) 1,3-Butadiene	3.36	39	27256	0.492 ppbv	96
17) tert-Butyl alcohol	4.36	59	62695	0.549 ppbv	99
18) 1,1-Dichloroethene	4.34	96	30469	0.516 ppbv #	92
19) Isopropyl Alcohol	4.02	45	46801	0.524 ppbv #	93
20) Methylene Chloride	4.40	84	33644	0.631 ppbv	98
21) Allyl Chloride	4.47	41	39107	0.458 ppbv	94
22) trans-1,2-Dichloroethene	4.95	96	32108	0.522 ppbv	92
23) Vinyl Acetate	5.14	43	70787m	0.392 ppbv	
24) 1,1-Dichloroethane	5.08	63	65339	0.472 ppbv	99
25) Ethyl Acetate	5.76	43	106050	0.442 ppbv	99
26) Hexane	5.77	57	48313	0.470 ppbv	93
27) Carbon Disulfide	4.61	76	64196	0.450 ppbv #	81
28) Methyl tert-Butyl Ether	5.11	73	60601	0.356 ppbv	95
29) Chloroform	5.83	83	87491	0.459 ppbv	98
30) Cyclohexane	7.23	84	28374m	0.330 ppbv	
31) cis-1,2-Dichloroethene	5.62	61	36354	0.353 ppbv #	90
32) 1,1,1-Trichloroethane	6.60	97	83887m	0.440 ppbv	
34) 2-Butanone	5.33	43	55624	0.393 ppbv	99
35) Carbon Tetrachloride	7.12	117	86176	0.469 ppbv	98
36) Benzene	6.99	78	72155	0.353 ppbv	96
37) 1,2-Dichloroethane	6.40	62	62326	0.462 ppbv	100
38) Trichloroethene	7.95	130	31042	0.400 ppbv	91
39) 1,2-Dichloropropane	7.72	63	31155m	0.406 ppbv	
40) 1,4-Dioxane	7.97	88	13407m	0.415 ppbv	
41) Tetrahydrofuran	6.16	42	24063m	0.309 ppbv	
42) Bromodichloromethane	7.90	83	77770	0.423 ppbv	92
43) Methyl Methacrylate	8.13	69	22848	0.301 ppbv	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.98	57	129650	0.372	ppbv	92
45) t-1,3-Dichloropropene	9.40	75	27915m	0.290	ppbv	
46) cis-1,3-Dichloropropene	8.82	75	33158m	0.296	ppbv	
47) 1,1,2-Trichloroethane	9.60	97	37185m	0.423	ppbv	
48) Dibromochloromethane	10.43	129	58653	0.384	ppbv	99
49) Bromoform	13.19	173	48417	0.369	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	73541	0.341	ppbv	91
51) 2-Hexanone	10.27	43	49807m	0.296	ppbv	
52) Tetrachloroethene	11.36	164	28171	0.387	ppbv #	80
53) Toluene	9.93	91	64446	0.290	ppbv	99
54) 1,2-Dibromoethane	10.74	107	50854	0.380	ppbv	89
56) 1,1,1,2-Tetrachloroethane	12.26	131	48737	0.484	ppbv #	1
57) Chlorobenzene	12.28	112	83535	0.468	ppbv	90
58) Ethyl Benzene	12.85	91	85865	0.301	ppbv #	85
59) m/p-Xylene	13.13	91	178247m	0.711	ppbv	
60) o-Xylene	13.83	91	93682	0.367	ppbv	99
61) Styrene	13.67	104	46408	0.273	ppbv	98
62) Isopropylbenzene	14.81	105	131405	0.383	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.81	83	92027	0.493	ppbv	99
64) n-propylbenzene	15.71	120	30503	0.344	ppbv	80
65) tert-Butylbenzene	16.90	119	111882	0.357	ppbv	90
66) Benzyl Chloride	17.14	91	56466m	0.377	ppbv	
67) sec-Butylbenzene	17.44	105	158012	0.360	ppbv	99
69) p-Isopropyltoluene	17.80	119	126335	0.348	ppbv	96
70) n-Butylbenzene	18.70	91	147325m	0.377	ppbv	
71) 2-Chlorotoluene	15.60	91	84365	0.332	ppbv	97
72) 4-Ethyltoluene	15.99	105	94279	0.324	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.14	105	100877	0.354	ppbv	94
74) 1,2,4-Trimethylbenzene	16.90	105	132006	0.425	ppbv #	89
75) 1,3-Dichlorobenzene	17.15	146	95599	0.501	ppbv	98
76) 1,4-Dichlorobenzene	17.29	146	74883	0.414	ppbv	94
77) 1,2-Dichlorobenzene	17.97	146	80722m	0.450	ppbv	
78) Hexachloro-1,3-Butadiene	23.53	225	75276	0.560	ppbv	99
79) Naphthalene	22.39	128	80821	0.290	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	41745	0.416	ppbv	97
81) 1,2,4-Trichlorobenzene	22.12	180	59654m	0.358	ppbv	

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

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