

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034309.D
 Acq On : 16 Oct 2019 22:44
 Operator : SY/AP
 Sample : K5111-14 0.5 PPB LOQ
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:43 PM

Quant Time: Oct 17 14:40:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 14:40:03 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1076399	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.23	114	2073910	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.17	117	2065576	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1808208	10.34	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	120706	0.650 ppbv	97
3) Chlorodifluoromethane	2.98	51	67422	0.534 ppbv	99
4) Chloromethane	3.14	50	40071m	0.537 ppbv	
5) Vinyl Chloride	3.25	62	34900	0.490 ppbv	92
6) Bromomethane	3.47	94	18772	0.539 ppbv	91
7) Chloroethane	3.56	64	13578m	0.542 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	90731	0.564 ppbv	97
9) Propene	3.00	41	27459m	0.491 ppbv	
10) Heptane	8.18	43	62402	0.435 ppbv	97
11) Trichlorofluoromethane	3.96	101	100376	0.570 ppbv #	83
12) 1,1,2-Trichlorotrifluoroet	4.50	101	64144	0.556 ppbv	95
13) Ethanol	3.61	45	7619m	0.608 ppbv	
14) Bromoethene	3.75	108	23111	0.509 ppbv #	89
15) Acetone	3.87	43	99154	0.644 ppbv	100
16) 1,3-Butadiene	3.32	39	29652	0.474 ppbv	94
17) tert-Butyl alcohol	4.32	59	60029m	0.611 ppbv	
18) 1,1-Dichloroethene	4.30	96	24222	0.479 ppbv	93
19) Isopropyl Alcohol	3.99	45	50430	0.587 ppbv #	91
20) Methylene Chloride	4.36	84	35528	0.638 ppbv #	93
21) Allyl Chloride	4.43	41	44368	0.521 ppbv	98
22) trans-1,2-Dichloroethene	4.91	96	27132m	0.538 ppbv	
23) Vinyl Acetate	5.10	43	82466	0.429 ppbv #	95
24) 1,1-Dichloroethane	5.04	63	73671	0.516 ppbv #	92
25) Ethyl Acetate	5.72	43	131456	0.506 ppbv	98
26) Hexane	5.72	57	55122	0.498 ppbv	94
27) Carbon Disulfide	4.57	76	52226	0.454 ppbv #	83
28) Methyl tert-Butyl Ether	5.07	73	77077	0.460 ppbv	95
29) Chloroform	5.79	83	91922	0.525 ppbv	99
30) Cyclohexane	7.19	84	37366m	0.459 ppbv	
31) cis-1,2-Dichloroethene	5.59	61	48595	0.432 ppbv #	87
32) 1,1,1-Trichloroethane	6.56	97	83368	0.489 ppbv	98
34) 2-Butanone	5.29	43	76060	0.449 ppbv	95
35) Carbon Tetrachloride	7.07	117	89281m	0.494 ppbv	
36) Benzene	6.94	78	92226	0.463 ppbv	96
37) 1,2-Dichloroethane	6.35	62	78596	0.530 ppbv	99
38) Trichloroethene	7.90	130	35658	0.447 ppbv	99
39) 1,2-Dichloropropane	7.67	63	42746m	0.499 ppbv	
40) 1,4-Dioxane	7.92	88	16654m	0.553 ppbv	
41) Tetrahydrofuran	6.11	42	39730	0.422 ppbv	98
42) Bromodichloromethane	7.85	83	87812	0.483 ppbv	89
43) Methyl Methacrylate	8.08	69	33002	0.401 ppbv	88

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44) 2,2,4-Trimethylpentane	7.93	57	183869m	0.499	ppbv	
45) t-1,3-Dichloropropene	9.35	75	33059m	0.330	ppbv	
46) cis-1,3-Dichloropropene	8.78	75	45759	0.397	ppbv #	79
47) 1,1,2-Trichloroethane	9.55	97	43070m	0.496	ppbv	
48) Dibromochloromethane	10.38	129	66324	0.466	ppbv	98
49) Bromoform	13.13	173	52591m	0.417	ppbv	
50) 4-Methyl-2-Pentanone	8.82	43	110530	0.455	ppbv	99
51) 2-Hexanone	10.23	43	75635	0.380	ppbv #	95
52) Tetrachloroethene	11.30	164	36456m	0.467	ppbv	
53) Toluene	9.88	91	89611	0.408	ppbv	99
54) 1,2-Dibromoethane	10.69	107	58604	0.456	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.21	131	52459	0.551	ppbv #	1
57) Chlorobenzene	12.23	112	90821	0.527	ppbv	97
58) Ethyl Benzene	12.80	91	136762	0.474	ppbv	96
59) m/p-Xylene	13.07	91	251021m	1.003	ppbv	
60) o-Xylene	13.78	91	124673m	0.500	ppbv	
61) Styrene	13.62	104	71529m	0.408	ppbv	
62) Isopropylbenzene	14.76	105	165464m	0.503	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	104592m	0.522	ppbv	
64) n-propylbenzene	15.66	120	41646m	0.493	ppbv	
65) tert-Butylbenzene	16.84	119	142065m	0.487	ppbv	
66) Benzyl Chloride	17.09	91	39982m	0.347	ppbv	
67) sec-Butylbenzene	17.39	105	208455	0.508	ppbv	95
69) p-Isopropyltoluene	17.75	119	148554	0.444	ppbv	98
70) n-Butylbenzene	18.65	91	178262	0.490	ppbv	96
71) 2-Chlorotoluene	15.55	91	123836m	0.486	ppbv	
72) 4-Ethyltoluene	15.93	105	130404	0.466	ppbv	97
73) 1,3,5-Trimethylbenzene	16.09	105	133027m	0.479	ppbv	
74) 1,2,4-Trimethylbenzene	16.86	105	142803	0.494	ppbv	94
75) 1,3-Dichlorobenzene	17.09	146	94870m	0.546	ppbv	
76) 1,4-Dichlorobenzene	17.24	146	83643	0.493	ppbv	98
77) 1,2-Dichlorobenzene	17.92	146	85674	0.503	ppbv	97
78) Hexachloro-1,3-Butadiene	23.48	225	68136m	0.484	ppbv	
79) Naphthalene	22.34	128	76685m	0.363	ppbv	
80) Naphthalene, 2-methyl-	25.07	142	13191	0.216	ppbv	93
81) 1,2,4-Trichlorobenzene	22.06	180	59593m	0.432	ppbv	

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

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