

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036538.D
 Acq On : 29 Mar 2021 13:12
 Operator : SY/AP
 Sample : VL0329ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0329ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/30/2021 7:44:02 PM

Quant Time: Mar 30 07:03:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1590776	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3856836	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3589897m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3048638	10.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	2465079	9.501	ppbv 97
3) Chlorodifluoromethane	2.98	51	2771287	9.324	ppbv 99
4) Chloromethane	3.14	50	995399	9.482	ppbv 96
5) Vinyl Chloride	3.25	62	989929	9.171	ppbv 96
6) Bromomethane	3.47	94	581413	9.783	ppbv 96
7) Chloroethane	3.56	64	361868	9.756	ppbv 95
8) Dichlorotetrafluoroethane	3.19	85	2381244	9.616	ppbv 99
9) Propene	3.01	41	917360	9.682	ppbv 99
10) Heptane	8.12	43	2379746	9.859	ppbv 99
11) Trichlorofluoromethane	3.95	101	2605053	9.852	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1645918	9.736	ppbv 97
13) Ethanol	3.60	45	92228	8.174	ppbv 99
14) Bromoethene	3.74	108	688676	9.799	ppbv 100
15) Acetone	3.85	43	1430672	9.138	ppbv 100
16) 1,3-Butadiene	3.32	39	1009258	9.259	ppbv 95
17) tert-Butyl alcohol	4.29	59	1230664	9.029	ppbv 99
18) 1,1-Dichloroethene	4.29	96	707163	9.404	ppbv 97
19) Isopropyl Alcohol	3.97	45	666075	7.734	ppbv 99
20) Methylene Chloride	4.34	84	607607	8.289	ppbv 95
21) Allyl Chloride	4.41	41	1227357	9.834	ppbv 97
22) trans-1,2-Dichloroethene	4.88	96	687740	9.865	ppbv 87
23) Vinyl Acetate	5.08	43	2661489	9.938	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1910969	9.789	ppbv 99
25) Ethyl Acetate	5.68	43	3521709	9.461	ppbv 100
26) Hexane	5.69	57	1682602	9.741	ppbv 99
27) Carbon Disulfide	4.55	76	1830275	10.756	ppbv 98
28) Methyl tert-Butyl Ether	5.03	73	1987854	9.758	ppbv 99
29) Chloroform	5.75	83	2661559	9.634	ppbv 100
30) Cyclohexane	7.13	84	1406766	10.042	ppbv 100
31) cis-1,2-Dichloroethene	5.55	61	1652128	9.888	ppbv 95
32) 1,1,1-Trichloroethane	6.51	97	2651159	9.522	ppbv 98
34) 2-Butanone	5.24	43	1790336	9.510	ppbv 99
35) Carbon Tetrachloride	7.02	117	2790184	9.419	ppbv 96
36) Benzene	6.89	78	3423233	9.624	ppbv 98
37) 1,2-Dichloroethane	6.31	62	2002526	9.565	ppbv 99
38) Trichloroethene	7.83	130	1210690	8.746	ppbv 97
39) 1,2-Dichloropropane	7.62	63	1379136	9.558	ppbv 97
40) 1,4-Dioxane	7.83	88	277588	8.266	ppbv # 1
41) Tetrahydrofuran	6.05	42	843992	9.723	ppbv 99
42) Bromodichloromethane	7.79	83	2868238	10.072	ppbv 99
43) Methyl Methacrylate	8.01	69	1256260	10.518	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5825497	9.305	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1516100	11.116	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1880854	10.788	ppbv	100
47) 1,1,2-Trichloroethane	9.47	97	1402122	9.594	ppbv	98
48) Dibromochloromethane	10.30	129	2318430	10.406	ppbv	100
49) Bromoform	13.04	173	1896963	10.567	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	2745349	10.078	ppbv	100
51) 2-Hexanone	10.14	43	1514575	11.018	ppbv #	99
52) Tetrachloroethene	11.23	164	1154264	8.812	ppbv	98
53) Toluene	9.81	91	3852434	10.170	ppbv	100
54) 1,2-Dibromoethane	10.61	107	2029909	9.835	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.13	131	1551535	9.555	ppbv	99
57) Chlorobenzene	12.15	112	2827844	9.258	ppbv	99
58) Ethyl Benzene	12.71	91	5191875	9.941	ppbv	100
59) m/p-Xylene	13.00	91	8757951m	19.225	ppbv	
60) o-Xylene	13.70	91	4165416	9.457	ppbv	100
61) Styrene	13.53	104	2455813	11.082	ppbv	100
62) Isopropylbenzene	14.67	105	5554398	9.364	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	3007028	8.949	ppbv	100
64) n-propylbenzene	15.56	120	1472262	10.152	ppbv	99
65) tert-Butylbenzene	16.75	119	4797544	9.327	ppbv	99
66) Benzyl Chloride	16.99	91	701050	12.331	ppbv	99
67) sec-Butylbenzene	17.30	105	6745477	9.291	ppbv	100
69) p-Isopropyltoluene	17.66	119	5564026	9.814	ppbv	100
70) n-Butylbenzene	18.55	91	5745721	9.774	ppbv	100
71) 2-Chlorotoluene	15.46	91	4327905	9.737	ppbv	100
72) 4-Ethyltoluene	15.84	105	4832140	10.012	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	4368433	9.697	ppbv	97
74) 1,2,4-Trimethylbenzene	16.77	105	4503771	9.343	ppbv	94
75) 1,3-Dichlorobenzene	17.00	146	2556861	9.423	ppbv	100
76) 1,4-Dichlorobenzene	17.14	146	2469237	9.165	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	2449598	9.604	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	1856584	8.128	ppbv	99
79) Naphthalene	22.20	128	3143656	11.176	ppbv	99
80) Naphthalene, 2-methyl-	24.98	142	645308	11.633	ppbv	96
81) 1,2,4-Trichlorobenzene	21.93	180	1803484	10.384	ppbv	99

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

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