

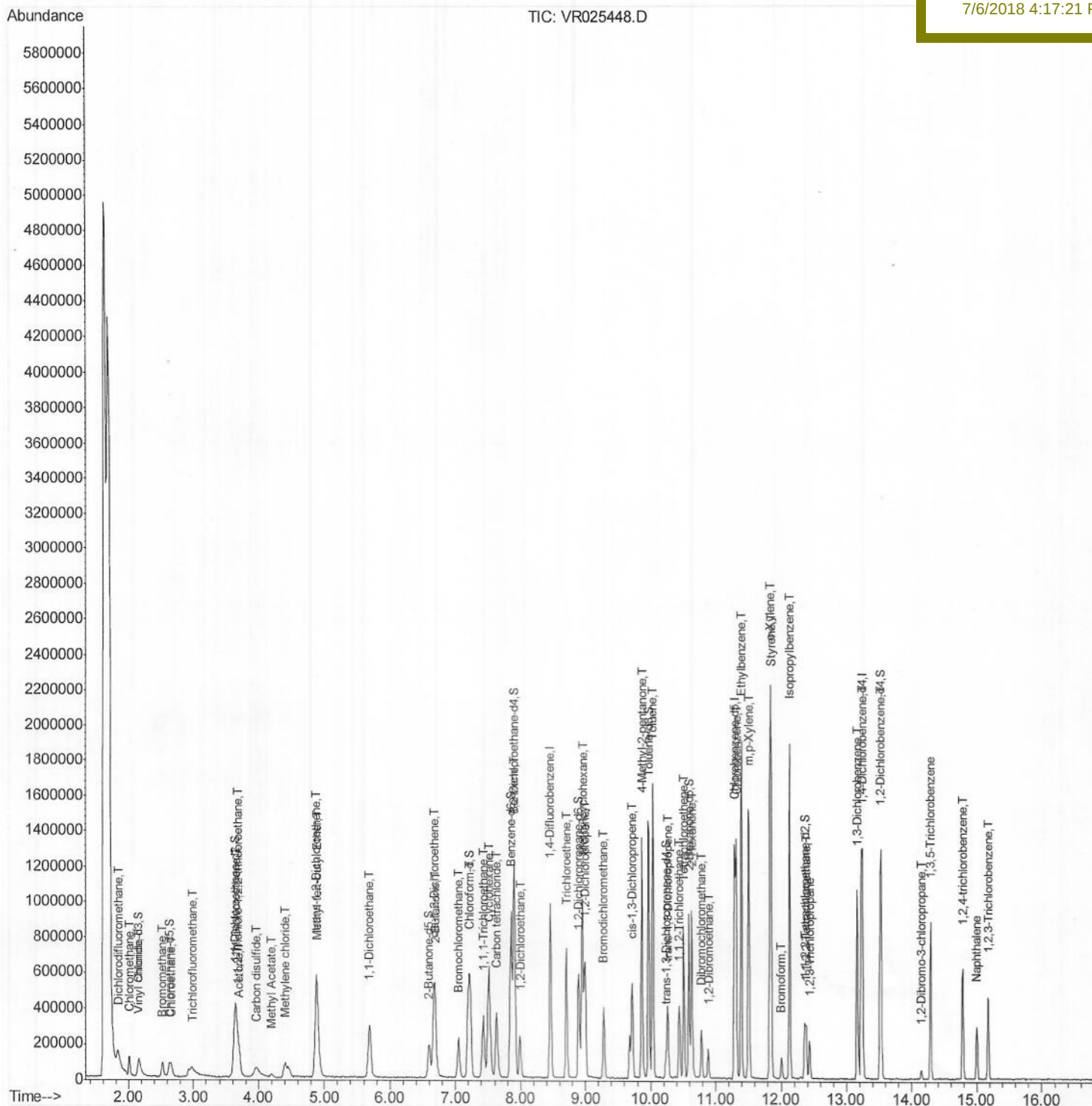
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR070518\
Data File : VR025448.D
Acq On : 5 Jul 2018 20:14
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 06 01:51:13 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 05 15:29:58 2018
Response via : Initial Calibration

Instrument :
MSVOA_R
LabSampleId :
VSTD00587

Manual Integrations
APPROVED

MMDadoda
7/6/2018 4:17:21 PM



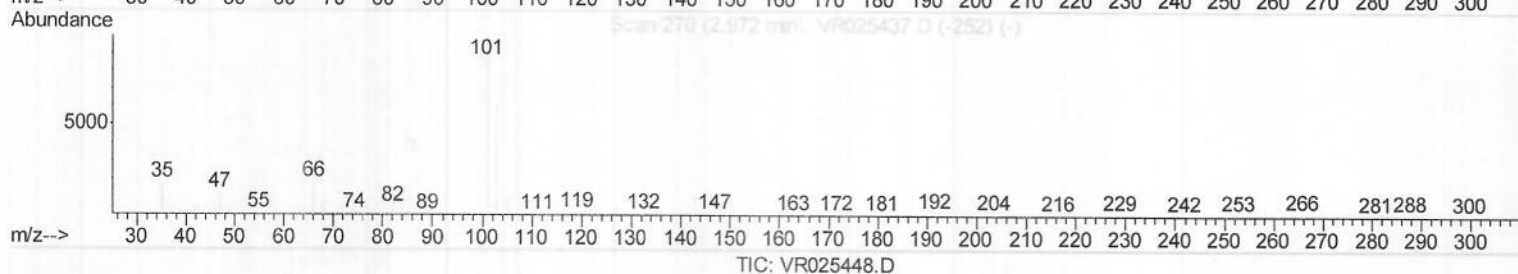
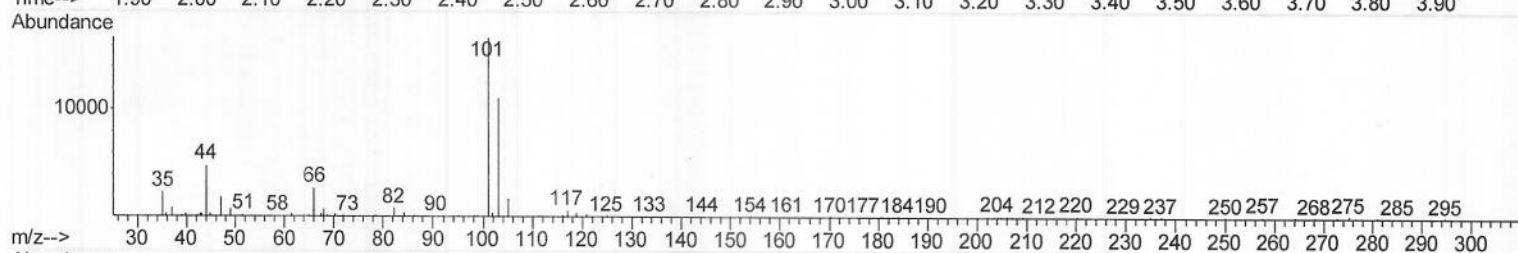
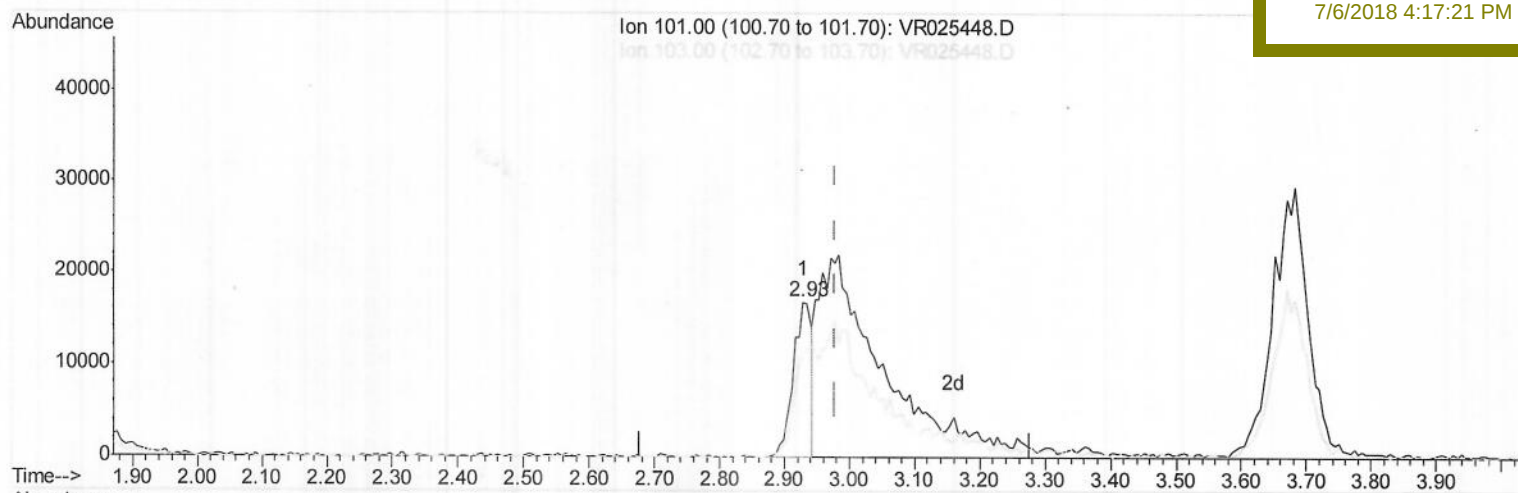
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR070518\
Data File : VR025448.D
Acq On : 5 Jul 2018 20:14
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 06 01:26:16 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 05 15:29:58 2018
Response via : Initial Calibration

Instrument :
MSVOA_R
LabSampleId :
VSTD00587

Manual Integrations
APPROVED

MMDadoda
7/6/2018 4:17:21 PM



(9) Trichlorofluoromethane (T)

2.929min (-0.049) 0.90ug/L

response 32404

Ion	Exp%	Act%
101.00	100	100
103.00	13.70	95.29#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR070518\

Data File : VR025448.D

Acq On : 5 Jul 2018 20:14

Operator : SY/MD

Sample : VSTDCCC005EC

Misc : 25mL/MSVOA_R/WATER

ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 06 01:26:16 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Thu Jul 05 15:29:58 2018

Response via : Initial Calibration

Instrument :

MSVOA_R

LabSampleId :

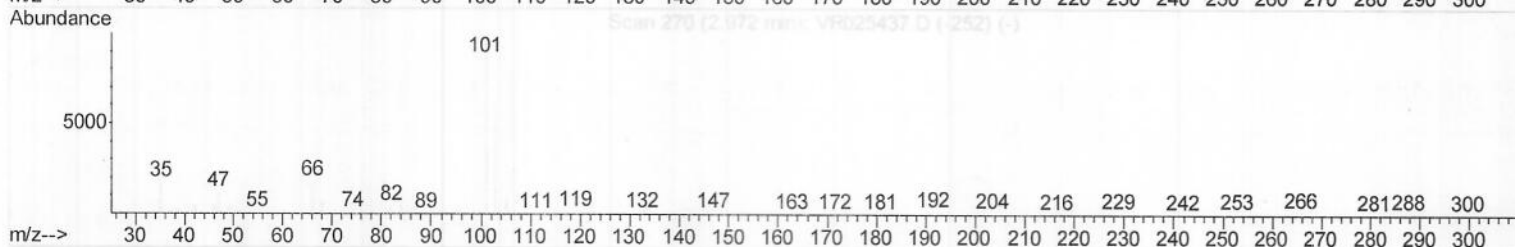
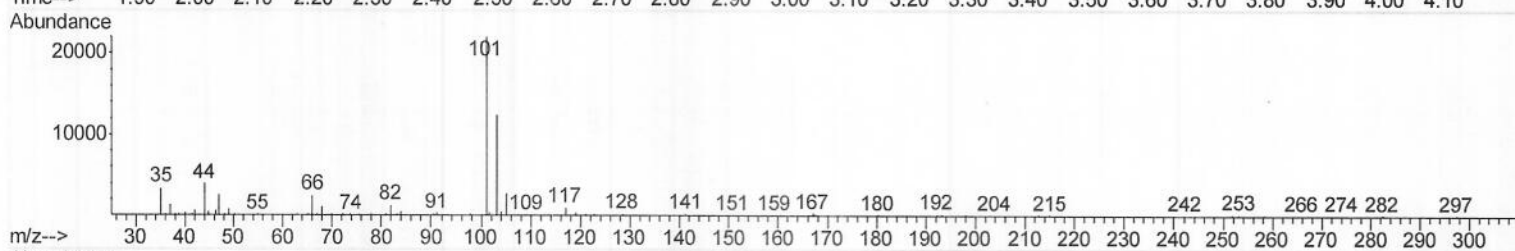
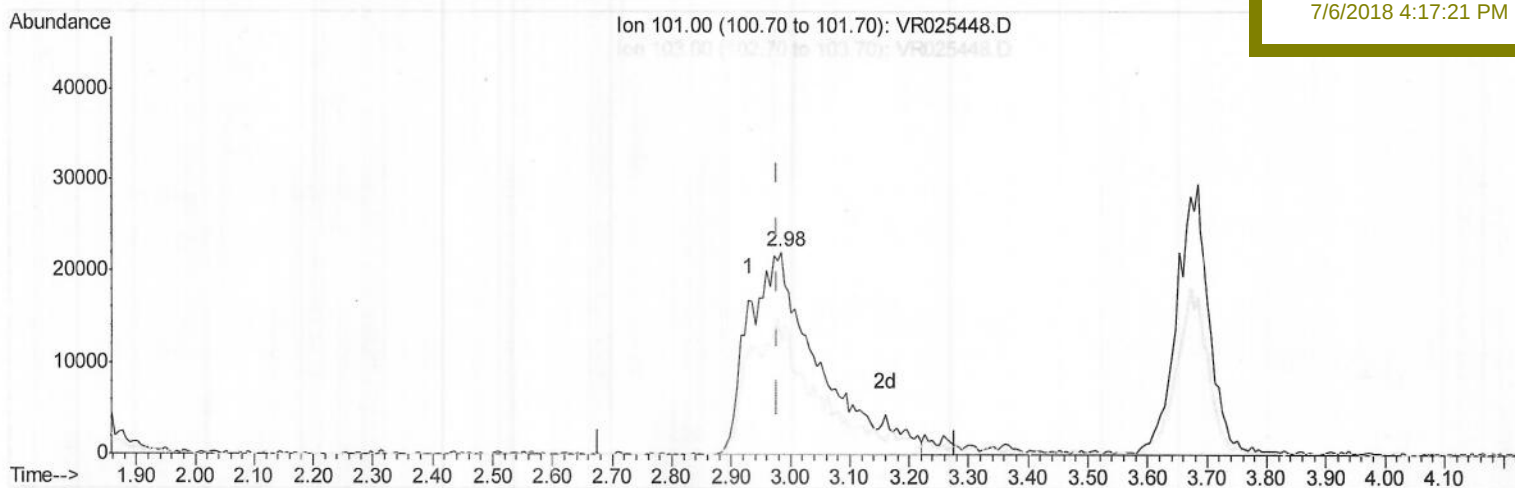
VSTD00587

Manual Integrations

APPROVED

MMDadoda

7/6/2018 4:17:21 PM



TIC: VR025448.D

(9) Trichlorofluoromethane (T)

2.984min (+0.006) 4.99ug/L m) MD

response 180550

07/07/18

Ion	Exp%	Act%
101.00	100	100
103.00	13.70	17.10#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR070518\

Data File : VR025448.D

Acq On : 5 Jul 2018 20:14

Operator : SY/MD

Sample : VSTDCCC005EC

Misc : 25mL/MSVOA_R/WATER

ALS Vial : 16 Sample Multiplier: 1

Instrument :

MSVOA_R

LabSampleId :

VSTD00587

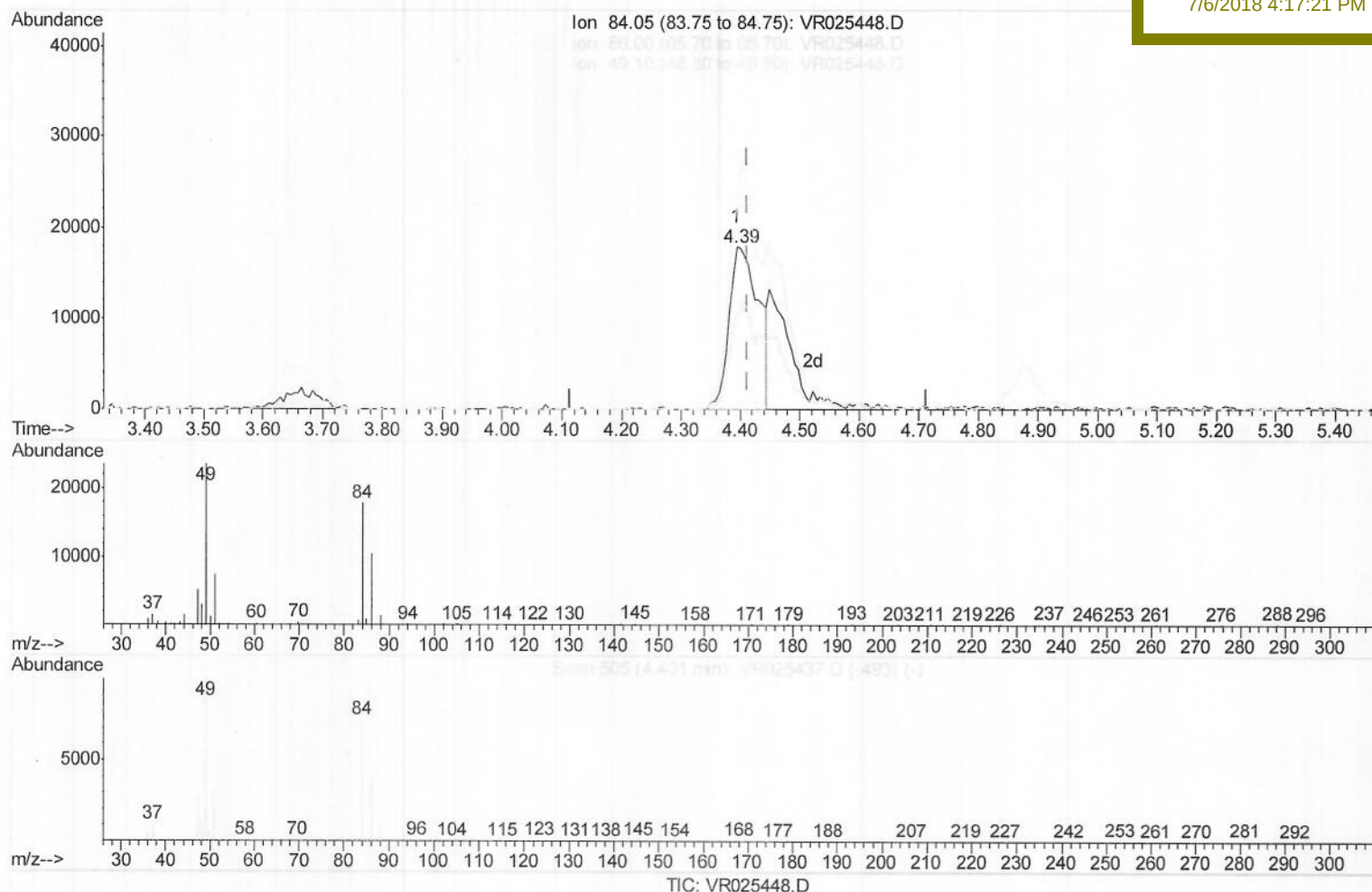
Quant Time: Jul 06 01:26:16 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Thu Jul 05 15:29:58 2018

Response via : Initial Calibration

Manual Integrations
APPROVEDMMDadoda
7/6/2018 4:17:21 PM

(16) Methylene chloride (T)

4.395min (-0.018) 2.85ug/L

response 61531

Ion	Exp%	Act%
84.05	100	100
86.00	62.40	59.09
49.10	124.60	131.79
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR070518\

Data File : VR025448.D

Acq On : 5 Jul 2018 20:14

Operator : SY/MD

Sample : VSTDCCC005EC

Misc : 25mL/MSVOA_R/WATER

ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 06 01:26:16 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Thu Jul 05 15:29:58 2018

Response via : Initial Calibration

Instrument :

MSVOA_R

LabSampleId :

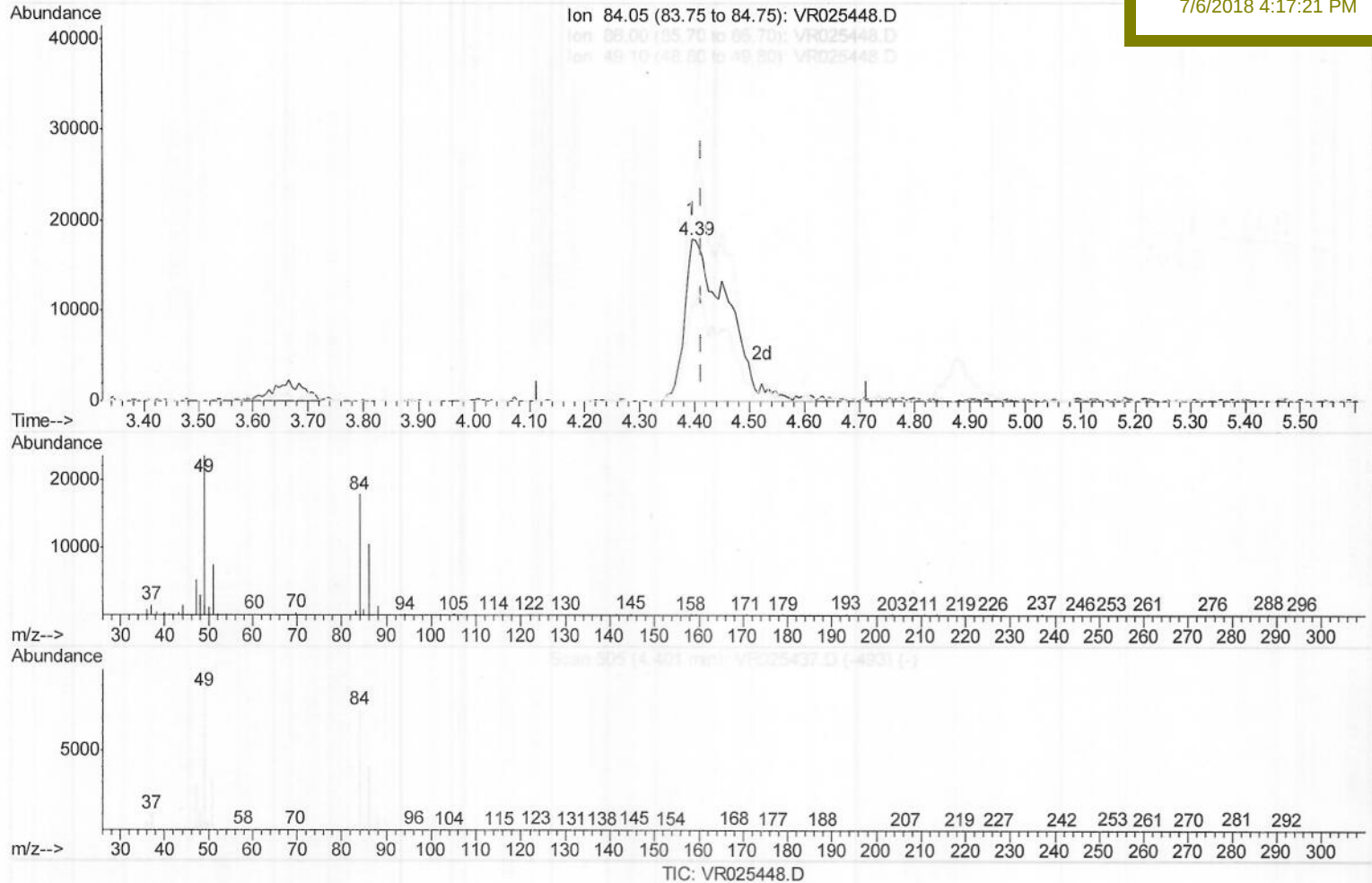
VSTD00587

Manual Integrations

APPROVED

MMDadoda

7/6/2018 4:17:21 PM



(16) Methylene chloride (T)

4.395min (-0.018) 4.51ug/L m) MD
response 97201 07/07/18

Ion	Exp%	Act%
84.05	100	100
86.00	62.40	59.09
49.10	124.60	131.79
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR070518\
 Data File : VR025448.D
 Acq On : 5 Jul 2018 20:14
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA_R/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_R
 LabSampleId :
 VSTD00587

Quant Time: Jul 06 01:51:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 05 15:29:58 2018
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 7/6/2018 4:17:21 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	736207	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	625413	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	246347	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.16	65	99204	4.89	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.80%
7) Chloroethane-d5	2.62	69	82841	4.79	ug/L	-0.01
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.80%
11) 1,1-Dichloroethene-d2	3.63	63	288849	4.70	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.00%
20) 2-Butanone-d5	6.60	46	327601	51.97	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.94%
24) Chloroform-d	7.21	84	468354	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	7.90	65	182596	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
32) Benzene-d6	7.86	84	1006312	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
36) 1,2-Dichloropropane-d6	8.90	67	282159	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.00%
41) Toluene-d8	9.97	98	892458	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
43) trans-1,3-Dichloropropene-	10.24	79	71041	4.41	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.20%
46) 2-Hexanone-d5	10.59	63	298117	57.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.68%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	133285	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.20%
64) 1,2-Dichlorobenzene-d4	13.51	152	201534	4.96	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.20%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.83	85	211585	5.087	ug/L	92
3) Chloromethane	2.00	50	116253	4.715	ug/L	96
5) Vinyl chloride	2.16	62	114019	5.147	ug/L	99
6) Bromomethane	2.53	94	62812	4.819	ug/L	93
8) Chloroethane	2.66	64	63944	4.636	ug/L	87
9) Trichlorofluoromethane	2.98	101	180550m)	4.988	ug/L	
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	109533	4.971	ug/L	98
12) 1,1-Dichloroethene	3.65	96	110399	5.016	ug/L	99
13) Acetone	3.70	43	131412	46.269	ug/L	99
14) Carbon disulfide	3.97	76	220786	4.408	ug/L	97
15) Methyl Acetate	4.19	43	31964	5.030	ug/L	100
16) Methylene chloride	4.39	84	97201m)	4.508	ug/L	
17) Methyl tert-butyl Ether	4.90	73	345043	4.810	ug/L	99
18) trans-1,2-Dichloroethene	4.88	96	262575	4.796	ug/L	96
19) 1,1-Dichloroethane	5.69	63	441433	4.700	ug/L	98
21) 2-Butanone	6.69	43	357602	54.052	ug/L	99
22) cis-1,2-Dichloroethene	6.68	96	261081	5.196	ug/L #	99

MD
 07/07/18

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR070518\
 Data File : VR025448.D
 Acq On : 5 Jul 2018 20:14
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA_R/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_R
 LabSampleId :
 VSTD00587

Quant Time: Jul 06 01:51:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 05 15:29:58 2018
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 7/6/2018 4:17:21 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.05	128	77319	4.779	ug/L	95
25) Chloroform	7.23	83	427379	4.737	ug/L	100
27) 1,2-Dichloroethane	7.99	62	194399	4.806	ug/L #	95
29) 1,1,1-Trichloroethane	7.43	97	290831	4.572	ug/L	99
30) Cyclohexane	7.52	56	389424	5.706	ug/L	98
31) Carbon tetrachloride	7.64	117	273696	4.863	ug/L	99
33) Benzene	7.91	78	1083969	5.028	ug/L	100
34) Trichloroethene	8.71	95	257466	4.691	ug/L	97
35) Methylcyclohexane	8.96	83	419232	5.714	ug/L	96
37) 1,2-Dichloropropane	8.99	63	241507	4.820	ug/L	99
38) Bromodichloromethane	9.28	83	245175	4.801	ug/L	99
39) cis-1,3-Dichloropropene	9.72	75	282520	5.014	ug/L	92
40) 4-Methyl-2-pentanone	9.86	43	813238	56.002	ug/L	96
42) Toluene	10.03	91	1095975	5.228	ug/L	100
44) trans-1,3-Dichloropropene	10.27	75	202015	4.882	ug/L	92
45) 1,1,2-Trichloroethane	10.44	97	116989	4.765	ug/L	96
47) Tetrachloroethene	10.51	164	176061	4.913	ug/L	97
48) 2-Hexanone	10.64	43	536446	53.702	ug/L	96
49) Dibromochloromethane	10.78	129	123197	4.813	ug/L	97
50) 1,2-Dibromoethane	10.89	107	93462	4.699	ug/L #	94
51) Chlorobenzene	11.31	112	619625	4.854	ug/L	99
52) Ethylbenzene	11.39	91	1192694	5.306	ug/L	97
53) m,p-Xylene	11.50	106	451133	5.348	ug/L	94
54) o-Xylene	11.83	106	410098	5.644	ug/L	99
55) Styrene	11.85	104	660771	5.527	ug/L	91
56) Isopropylbenzene	12.13	105	1094257	5.687	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.38	83	117876	4.874	ug/L	96
59) 1,2,3-Trichloropropane	12.44	75	85070	4.887	ug/L	100
61) Bromoform	12.01	173	47452	4.729	ug/L	99
62) 1,3-Dichlorobenzene	13.16	146	360881	5.000	ug/L	97
63) 1,4-Dichlorobenzene	13.24	146	389664	4.863	ug/L	99
65) 1,2-Dichlorobenzene	13.53	146	322497	5.141	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.15	75	12768	4.602	ug/L #	74
67) 1,3,5-Trichlorobenzene	14.29	180	227987	4.836	ug/L	98
68) 1,2,4-trichlorobenzene	14.79	180	154652	4.772	ug/L	98
69) Naphthalene	15.00	128	206618	4.979	ug/L	98
70) 1,2,3-Trichlorobenzene	15.18	180	125881	5.037	ug/L	96

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