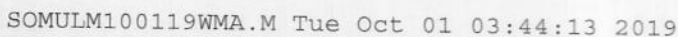


Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

MMDadoda
10/1/2019 10:52:59 AM



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (Qedit)

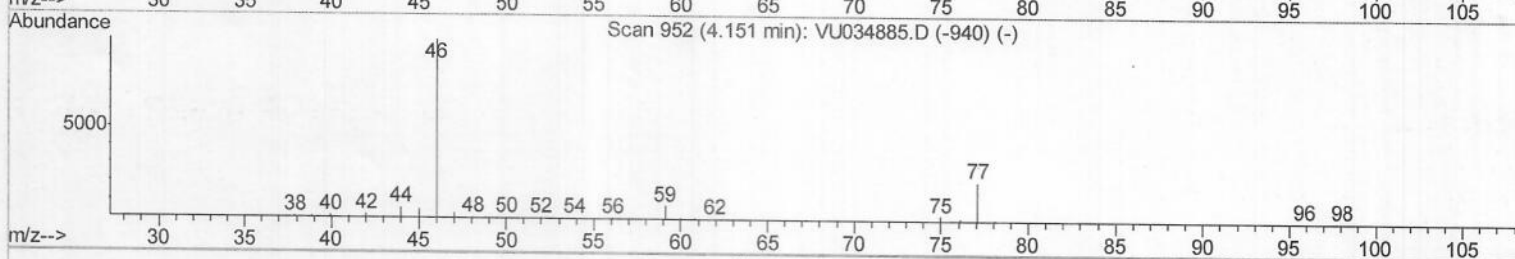
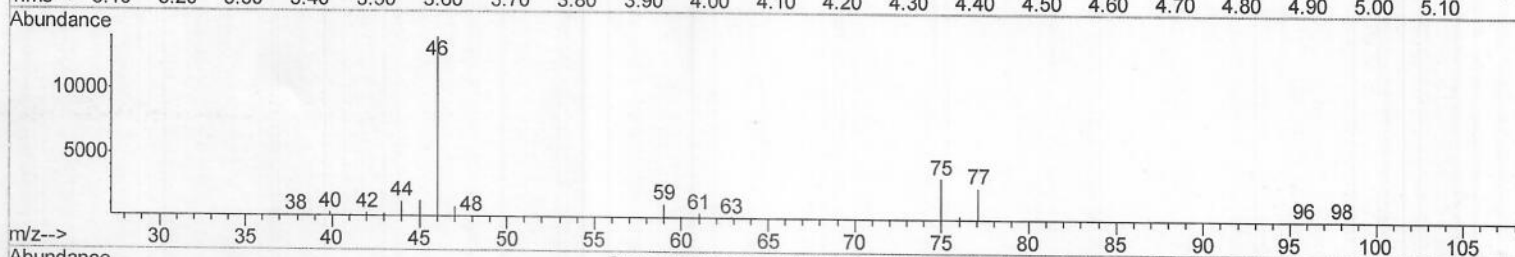
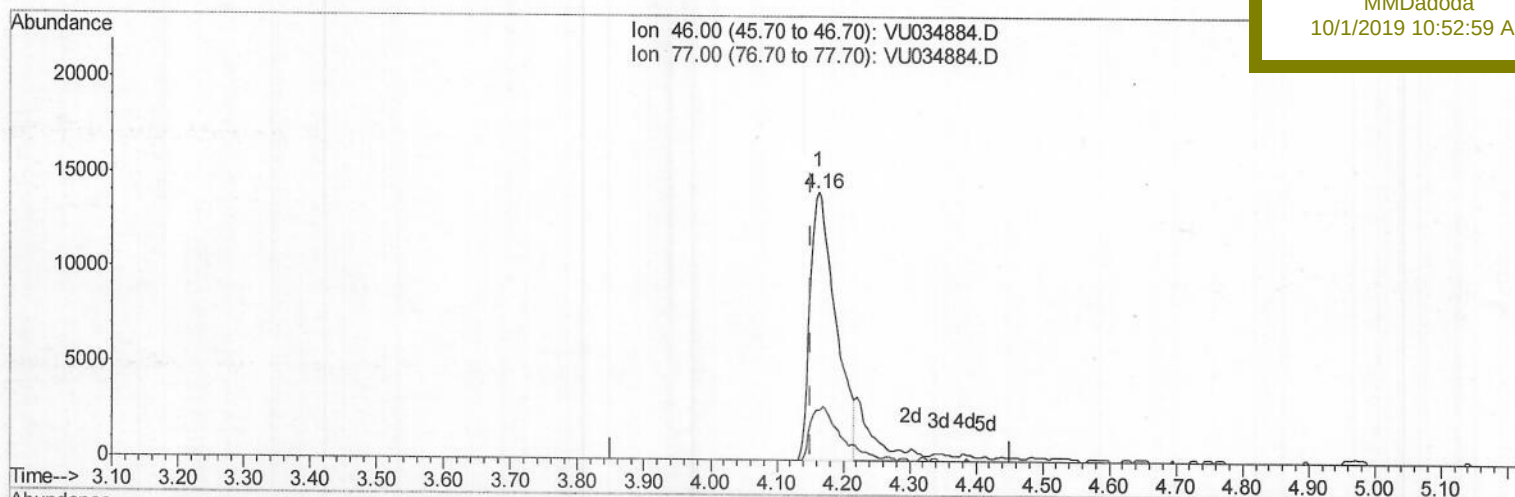
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:39:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampled :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(21) 2-Butanone-d5 (S)

4.164min (+0.013) 14.73ug/L

response 37652

Ion	Exp%	Act%
46.00	100	100
77.00	20.90	20.22
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (Qedit)

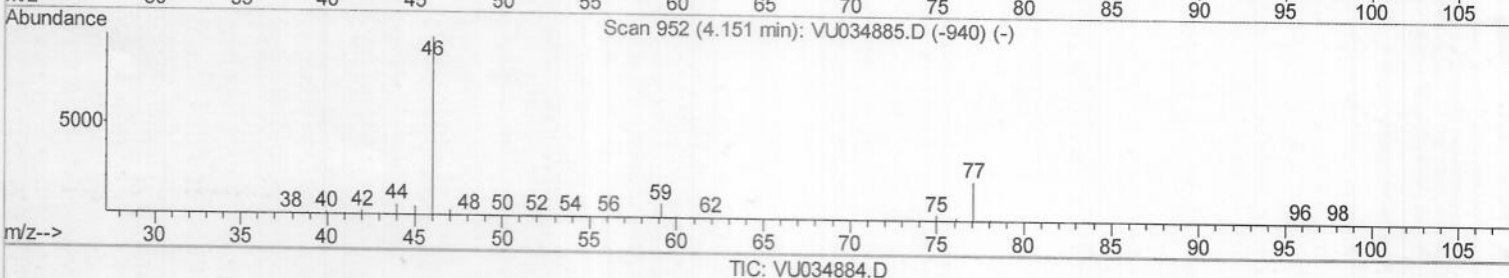
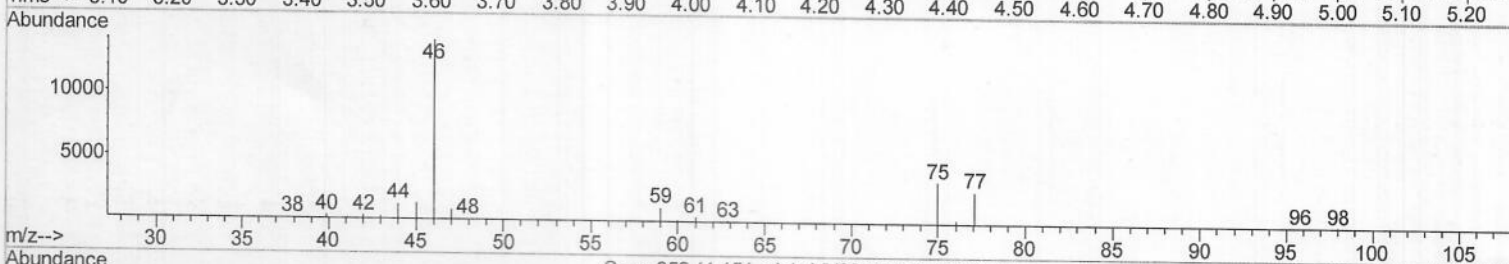
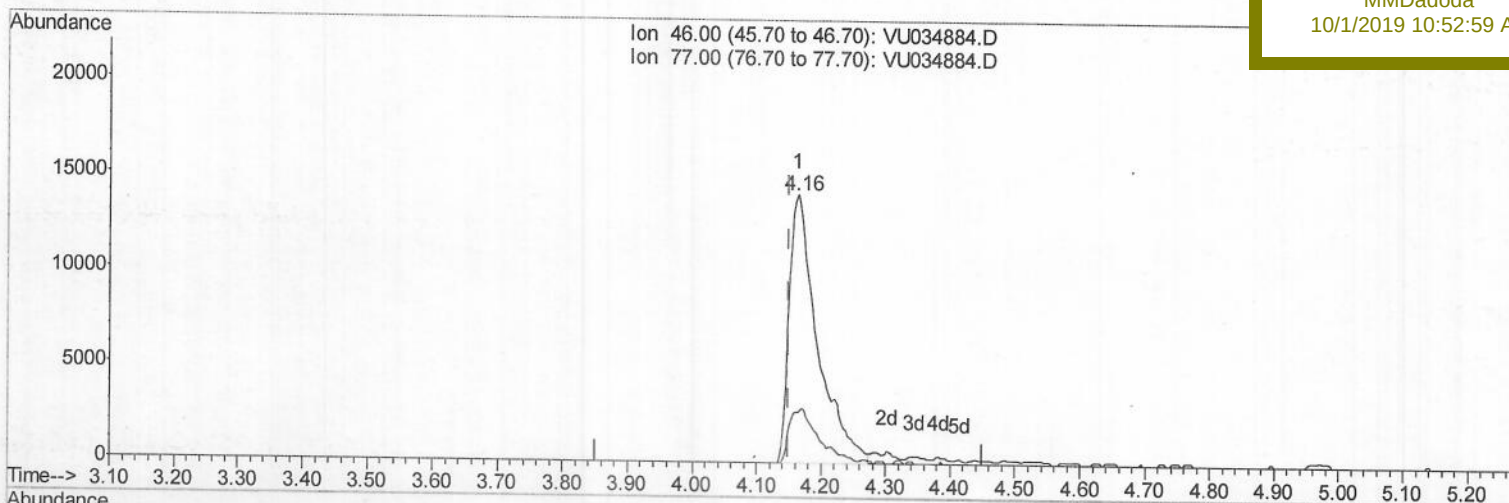
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:39:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(21) 2-Butanone-d5 (S)

4.164min (+0.013) 16.82ug/L m > MD
20/20/19

response 43008

Ion	Exp%	Act%
46.00	100	100
77.00	20.90	17.71
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (Qedit)

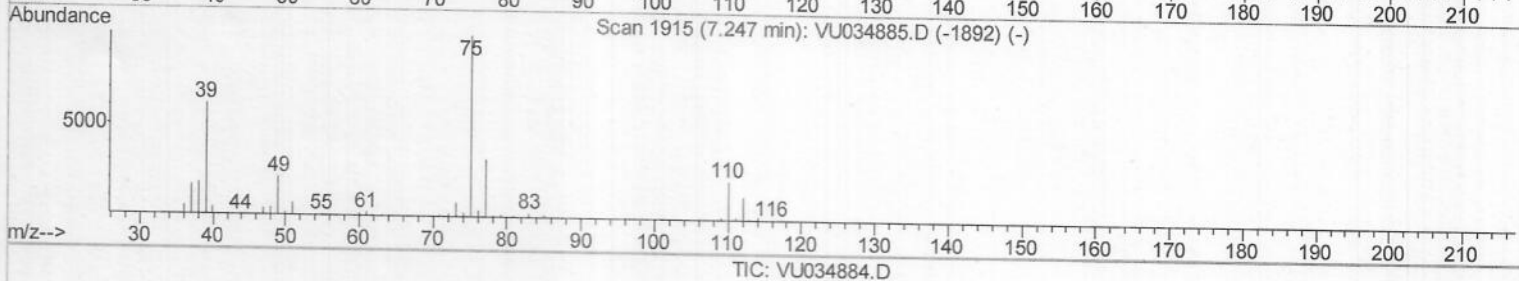
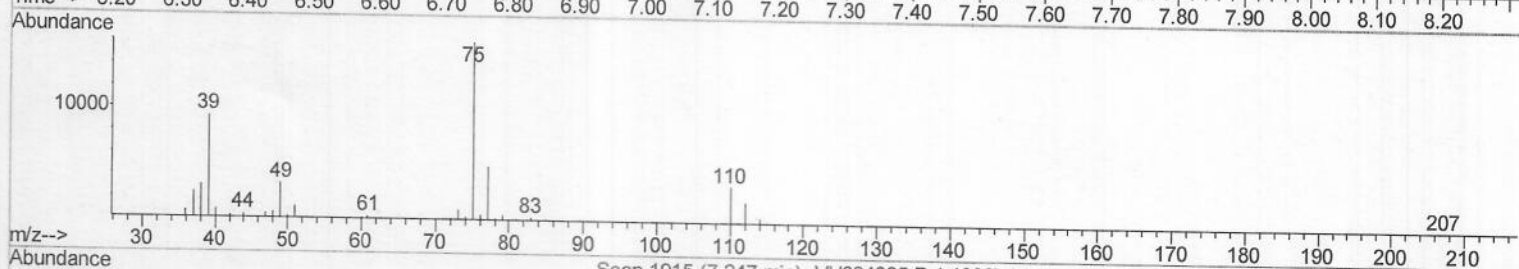
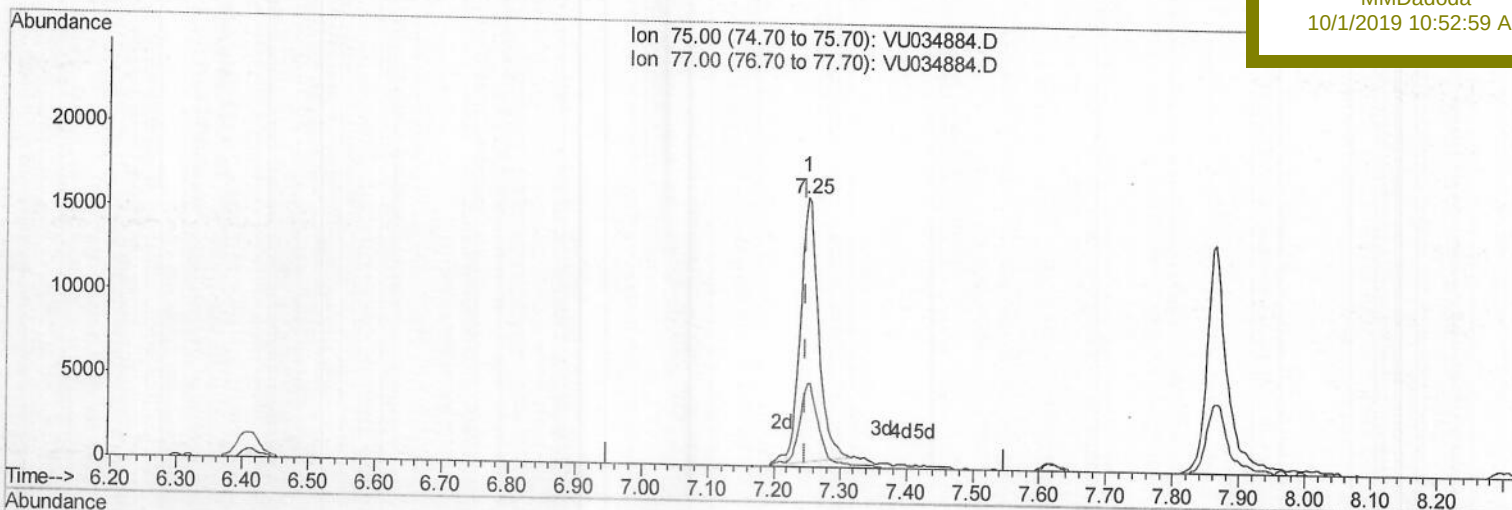
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:39:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(39) cis-1,3-Dichloropropene (T)

7.250min (+0.003) 6.13ug/L

response 29414

Ion	Exp%	Act%
75.00	100	100
77.00	32.00	30.76
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (Qedit)

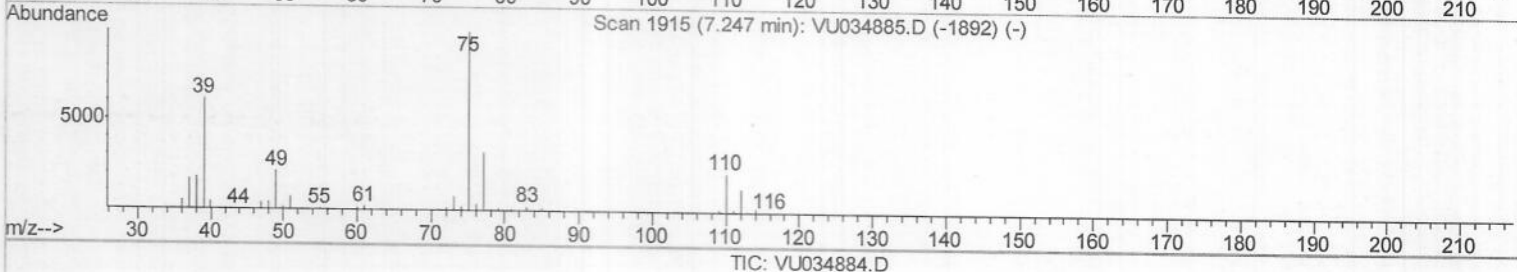
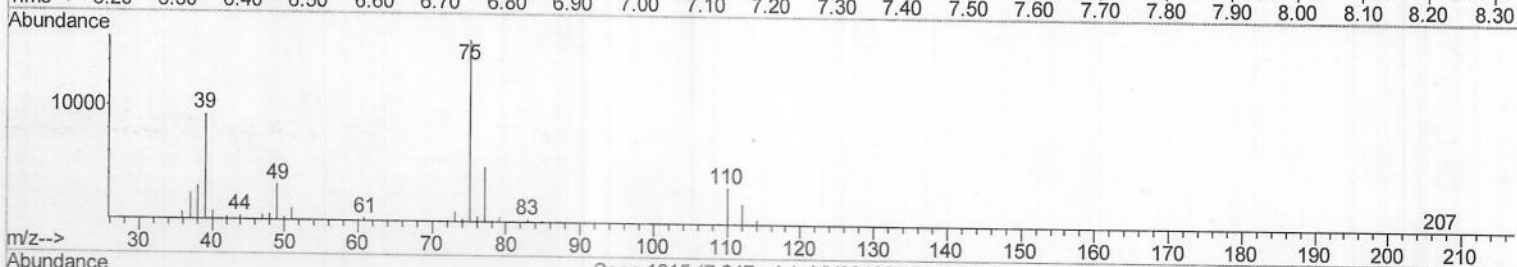
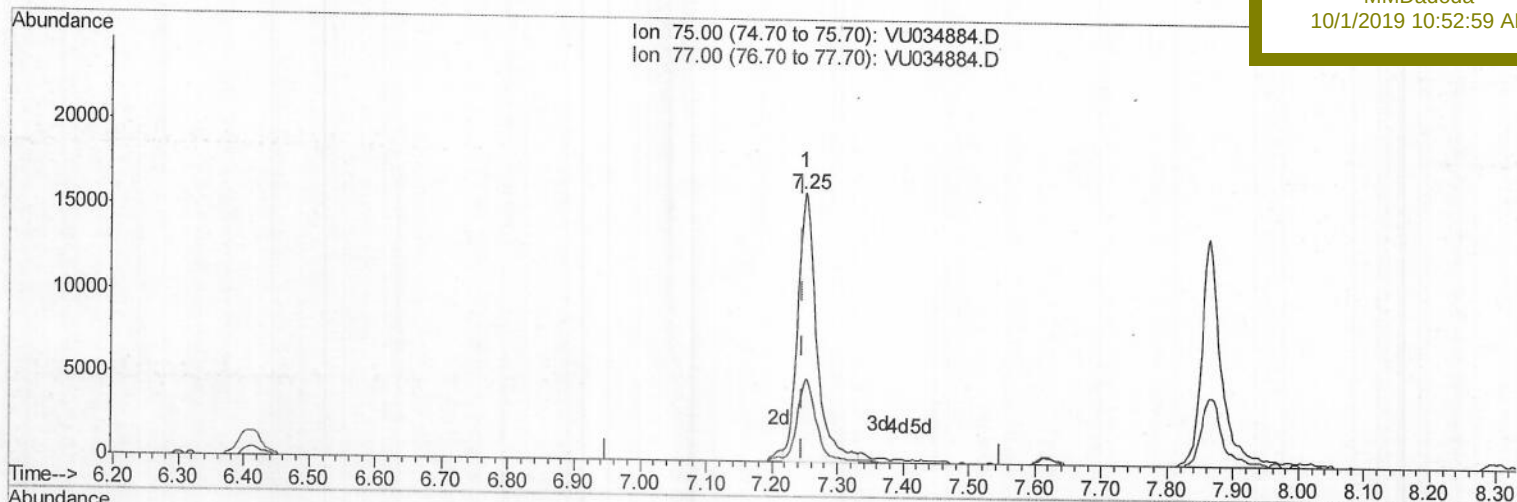
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:39:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(39) cis-1,3-Dichloropropene (T)

7.250min (+0.003) 6.68ug/L m

9 MD 20120119

response 32080

Ion	Exp%	Act%
75.00	100	100
77.00	32.00	30.76
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (Qedit)

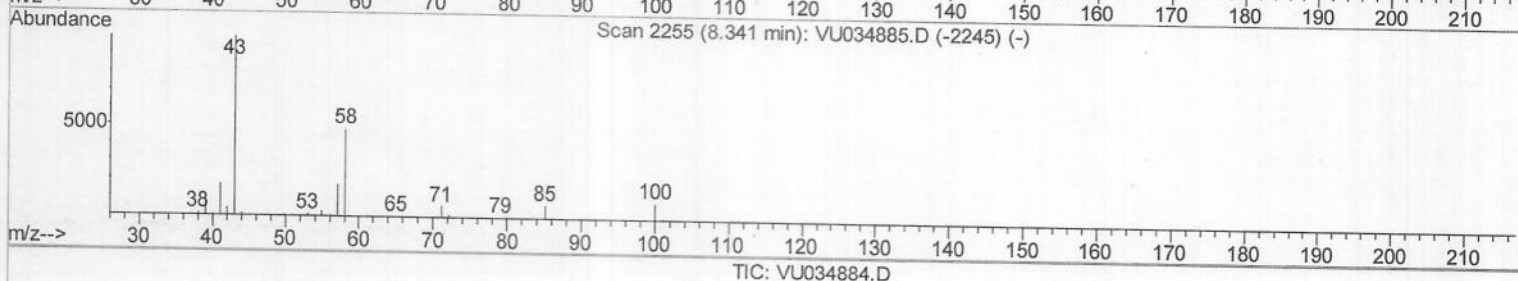
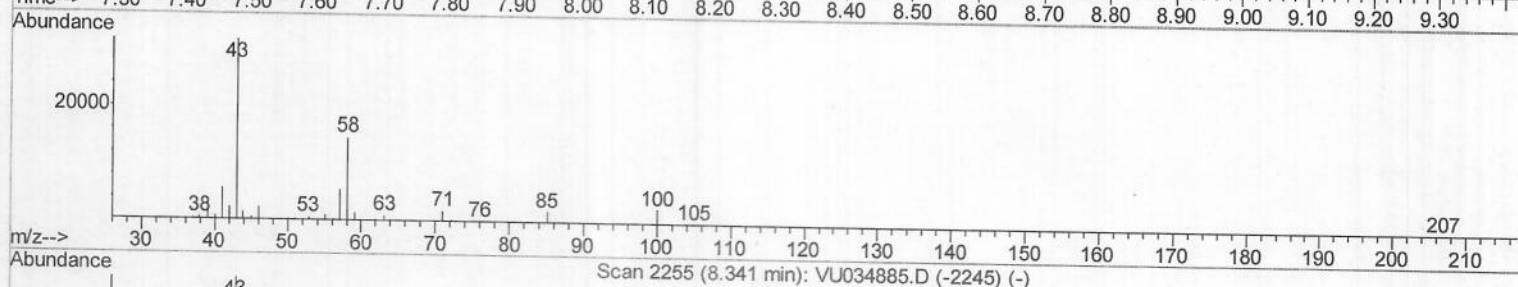
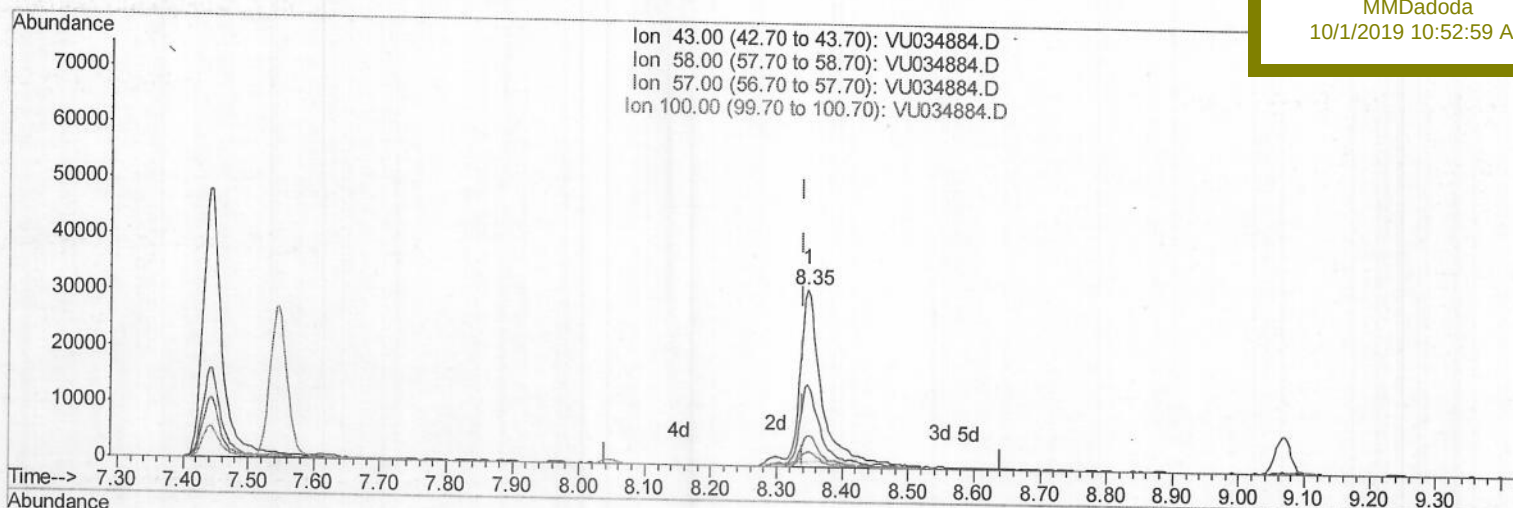
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:39:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(48) 2-Hexanone (T)

8.347min (+0.006) 13.08ug/L

response 62530

Ion	Exp%	Act%
43.00	100	100
58.00	47.30	46.48
57.00	16.70	15.80
100.00	8.90	8.54

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (Qedit)

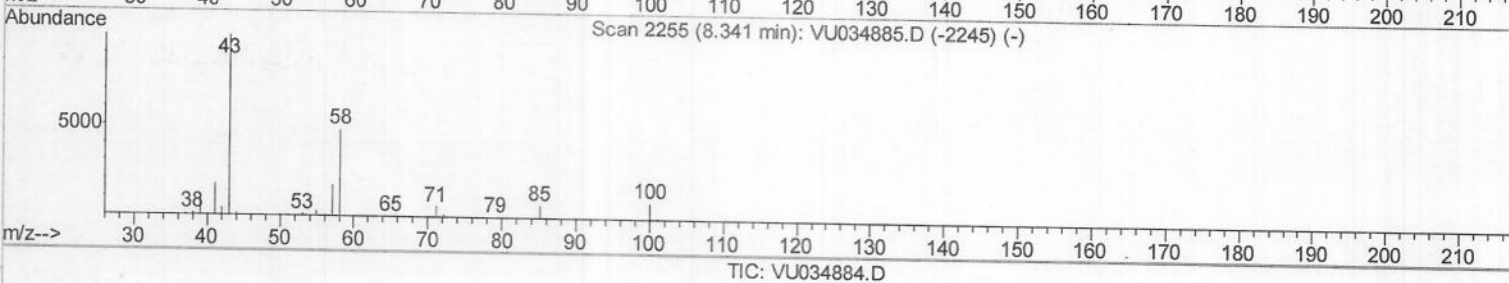
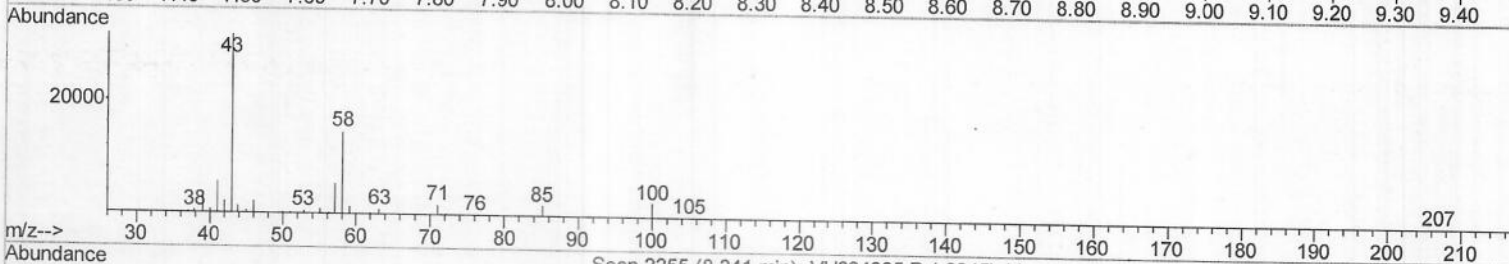
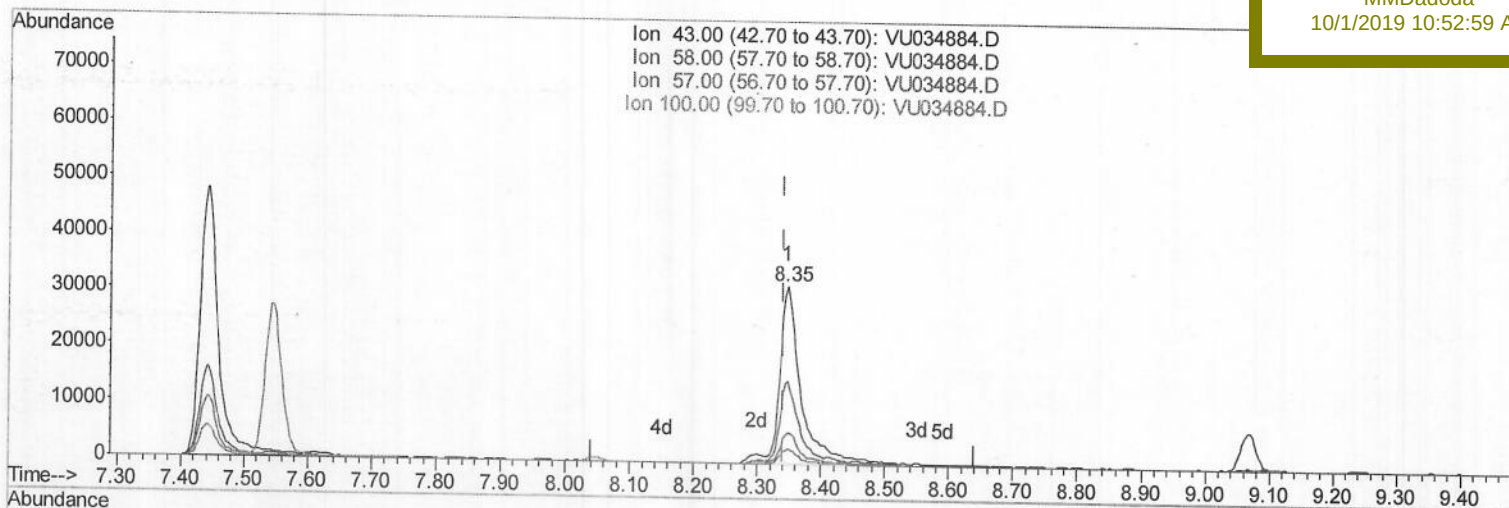
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:39:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(48) 2-Hexanone (T)

8.347min (+0.006) 15.24ug/L m *7 MD 10/1/2019*

response 72828

Ion	Exp%	Act%
43.00	100	100
58.00	47.30	39.91
57.00	16.70	13.57
100.00	8.90	7.34

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (Qedit)

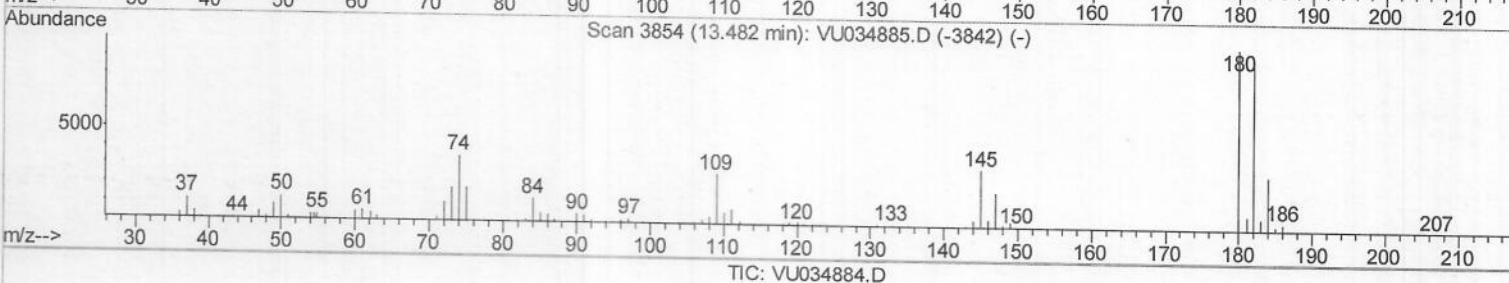
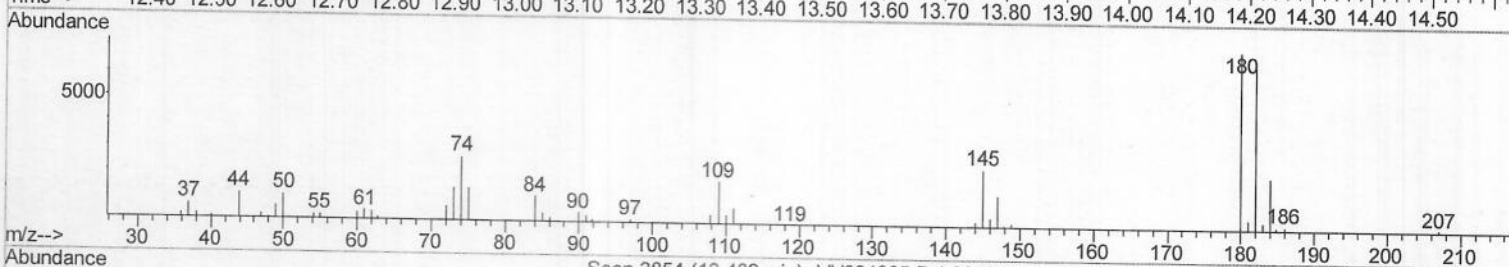
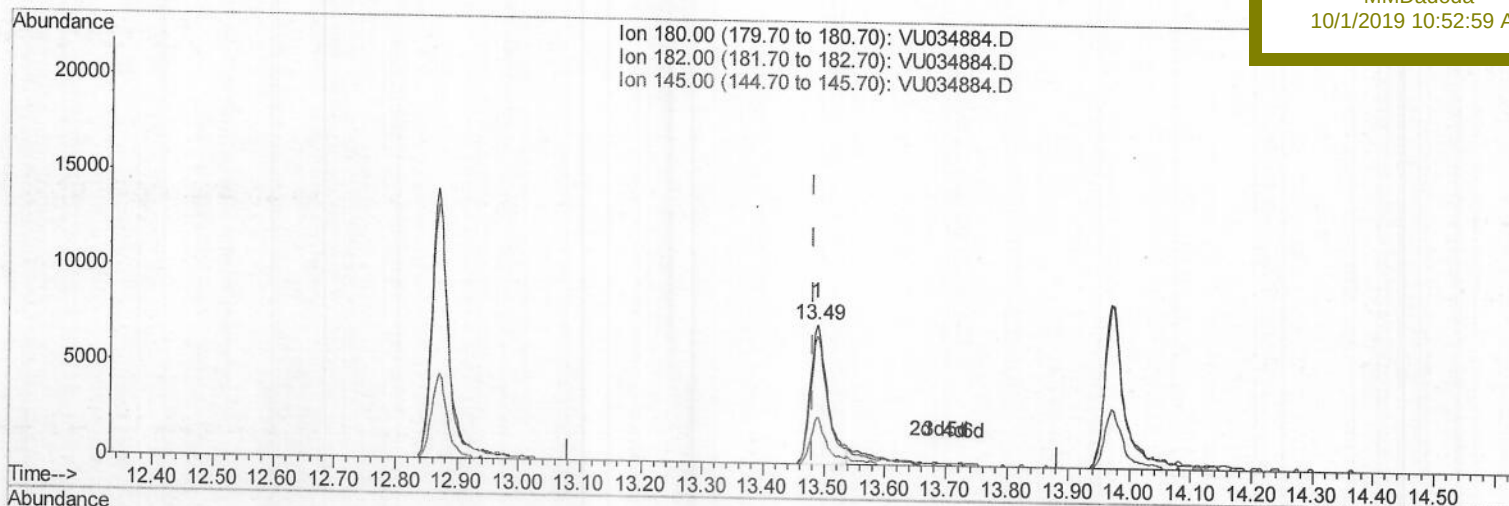
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:39:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
Client Sampled :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(68) 1,2,4-trichlorobenzene (T)

13.488min (+0.006) 5.92ug/L

response 14574

Ion	Exp%	Act%
180.00	100	100
182.00	91.80	87.91
145.00	30.50	28.08
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (Qedit)

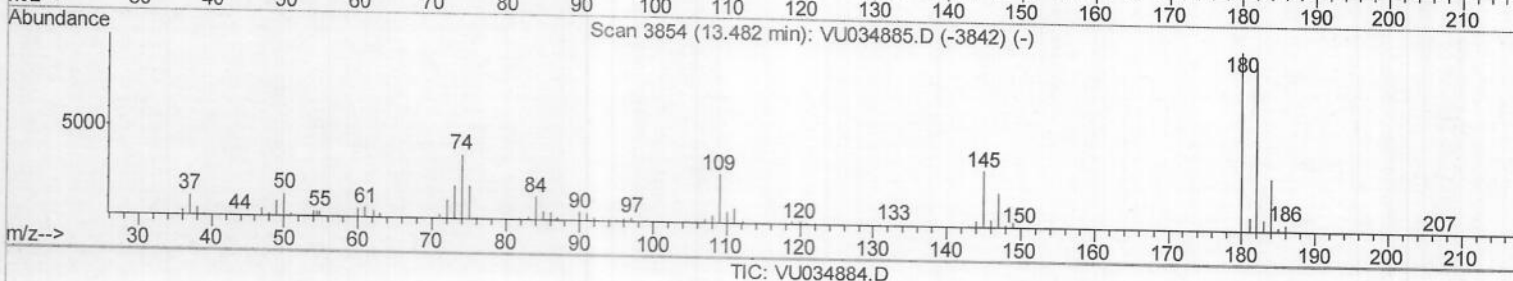
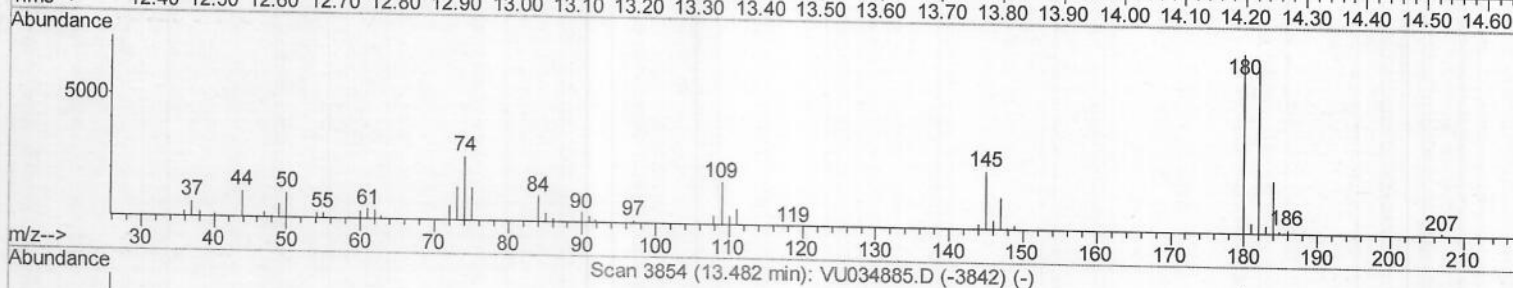
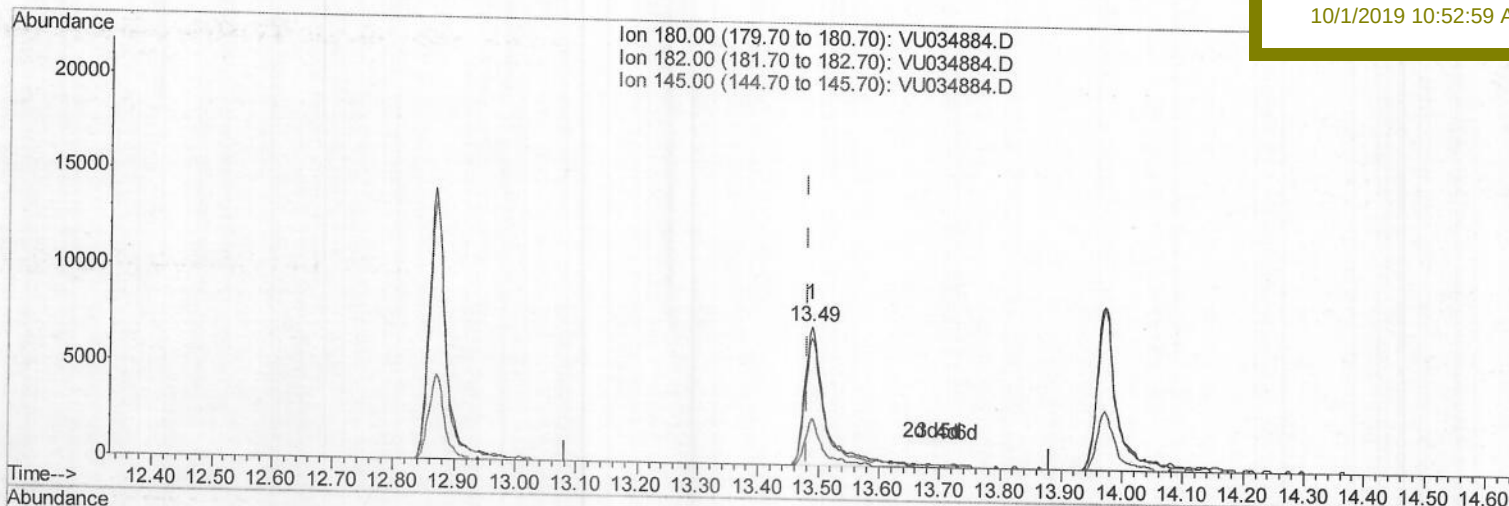
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:59:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
Client Sample Id :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(68) 1,2,4-trichlorobenzene (T)

13.488min (+0.006) 7.04ug/L m & MD 10/1/19

response 17330

Ion	Exp%	Act%
180.00	100	100
182.00	91.80	73.93
145.00	30.50	23.62#
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (Qedit)

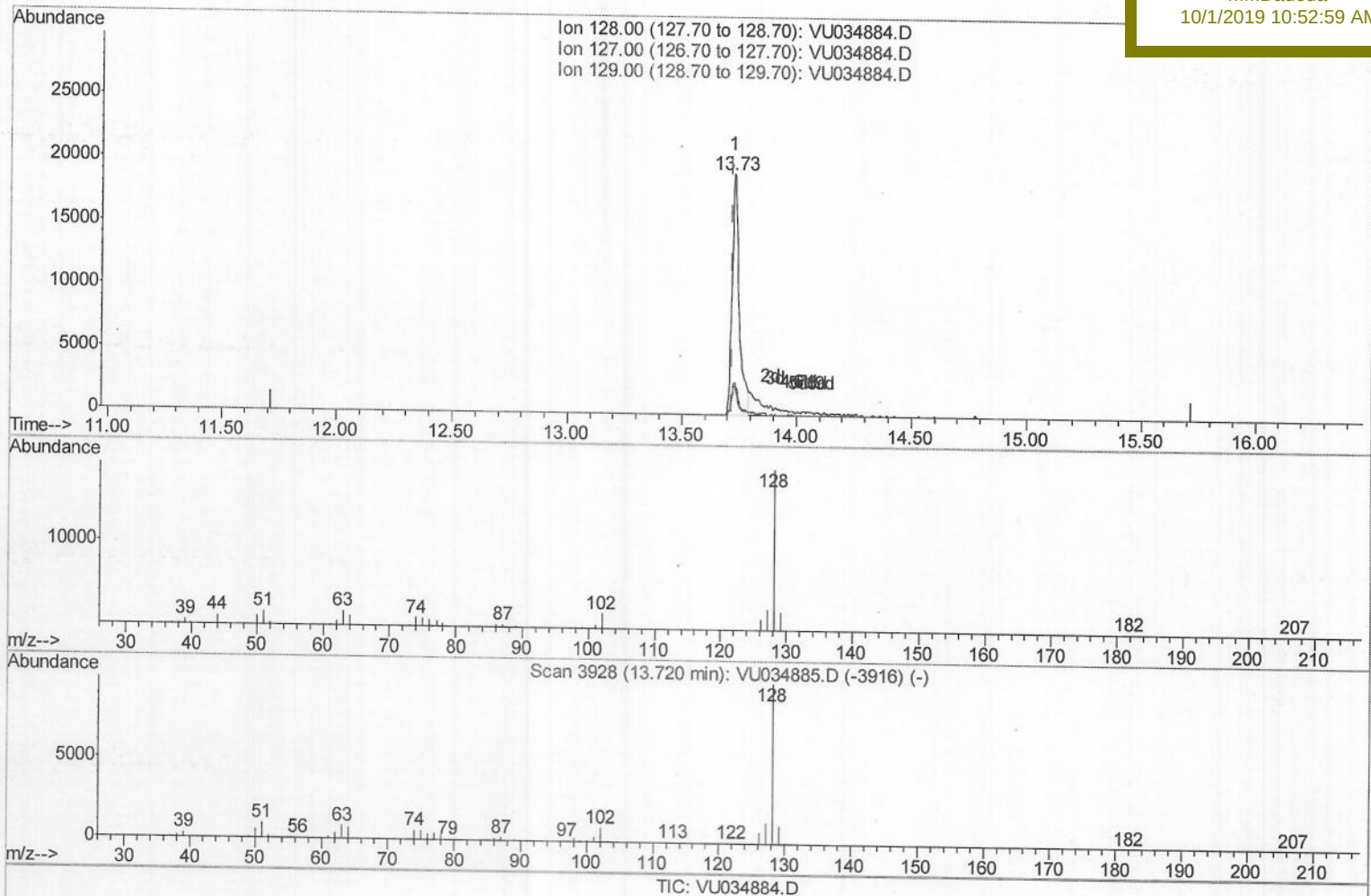
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:39:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampled :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(69) Naphthalene

13.726min (+0.006) 4.85ug/L

response 41231

Ion	Exp%	Act%
128.00	100	100
127.00	13.00	12.43
129.00	10.60	10.41
0.00	0.00	0.00

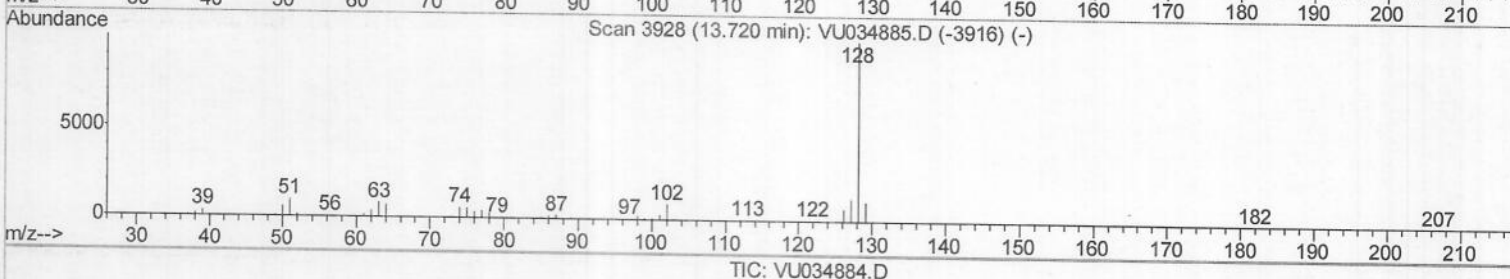
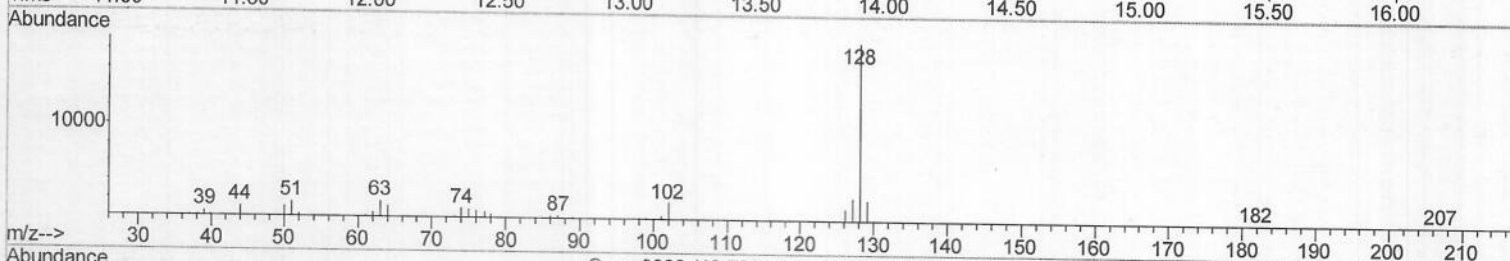
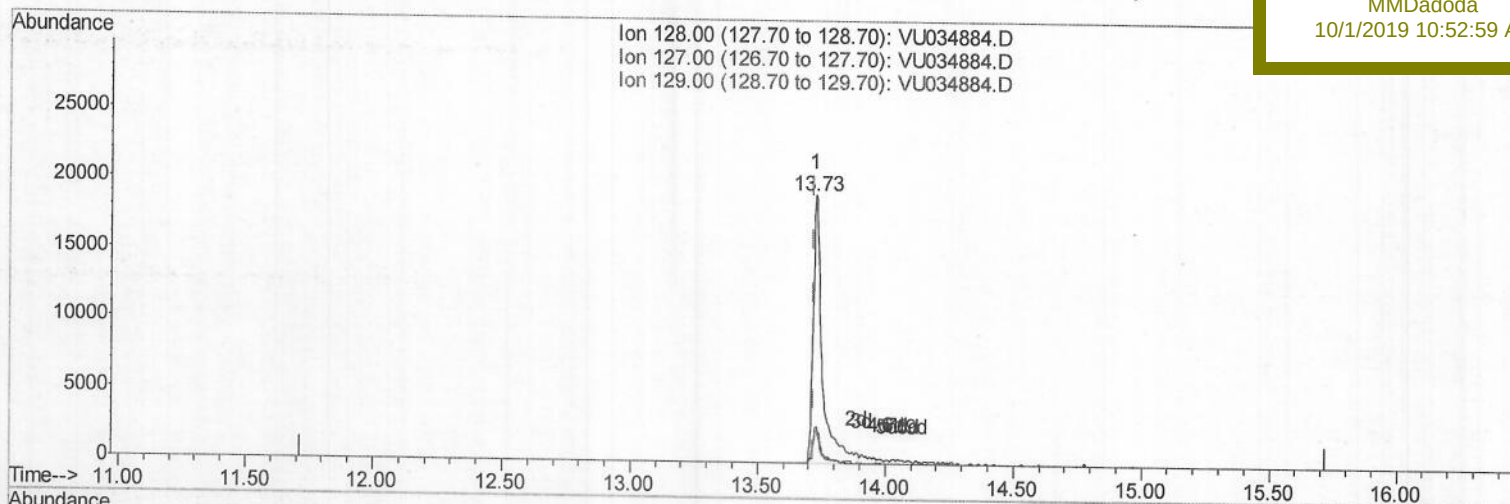
Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 02:39:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM



(69) Naphthalene

13.726min (+0.006) 5.64ug/L m

YMD
201-20-1-19

response 47928

Ion	Exp%	Act%
128.00	100	100
127.00	13.00	10.69
129.00	10.60	8.96
0.00	0.00	0.00

Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 03:46:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
Client Sampled :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	5.86	114	335894	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	326762	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	138440	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	24052	7.44	ug/L	0.00
7) Chloroethane-d5	1.68	69	19975	7.92	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	42636	7.72	ug/L	0.00
21) 2-Butanone-d5	4.16	46	43008m	16.82	ug/L	0.01
24) Chloroform-d	4.63	84	43798	8.92	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	33763	9.33	ug/L	0.00
32) Benzene-d6	5.32	84	90237	9.10	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	29684	8.64	ug/L	0.00
41) Toluene-d8	7.55	98	82208	8.77	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	12387	7.61	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	25153	14.65	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	42040	8.71	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	26835	9.29	ug/L	0.00

3 MD
10/1/2019

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	19808	6.208	ug/L	100
3) Chloromethane	1.32	50	17613	4.765	ug/L	100
5) Vinyl chloride	1.40	62	17194	5.070	ug/L	98
6) Bromomethane	1.62	94	8197	4.454	ug/L	100
8) Chloroethane	1.69	64	11093	5.640	ug/L	96
9) Trichlorofluoromethane	1.88	101	25937	5.921	ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	16681	7.693	ug/L	98
12) 1,1-Dichloroethene	2.27	96	13049	6.458	ug/L	96
13) Acetone	2.31	43	39218	13.692	ug/L	95
14) Carbon disulfide	2.47	76	20327	3.186	ug/L	96
15) Methyl Acetate	2.60	43	29078	7.473	ug/L	99
16) Methylene chloride	2.68	84	18910	7.222	ug/L	96
17) trans-1,2-Dichloroethene	2.97	96	13215	6.003	ug/L	95
18) Methyl tert-butyl Ether	2.98	73	75354	8.743	ug/L	99
19) 1,1-Dichloroethane	3.42	63	40296	7.727	ug/L	96
20) cis-1,2-Dichloroethene	4.20	96	19133	7.197	ug/L	96
22) 2-Butanone	4.25	43	46386	13.526	ug/L	91
23) Bromochloromethane	4.53	128	9495	7.493	ug/L	90
25) Chloroform	4.65	83	44312	8.492	ug/L	97
27) 1,2-Dichloroethane	5.39	62	33501	7.571	ug/L	97
29) Cyclohexane	4.97	56	24115	4.996	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	32019	7.561	ug/L	99
31) Carbon tetrachloride	5.11	117	24588	6.934	ug/L	97
33) Benzene	5.37	78	72939	6.911	ug/L	100
34) Trichloroethene	6.17	95	18015	6.889	ug/L	97
35) Methylcyclohexane	6.39	83	22335	5.211	ug/L	99
37) 1,2-Dichloropropane	6.41	63	24598	7.713	ug/L	100
38) Bromodichloromethane	6.74	83	30273	7.744	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	32080m	6.682	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	95848	15.543	ug/L	97

3 MD
10/1/2019

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100119\
Quantitation Report (QT Reviewed)

Data File : VU034884.D
Acq On : 30 Sep 2019 17:42
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 03:46:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

Manual Integrations
APPROVED

MMDadoda
10/1/2019 10:52:59 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
42) Toluene	7.62	91	75345	6.618	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	28365	6.614	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	22807	8.687	ug/L	96
46) Tetrachloroethene	8.21	164	11909	6.546	ug/L	98
48) 2-Hexanone	8.35	43	72828m	15.240	ug/L	
49) Dibromochloromethane	8.45	129	22164	7.631	ug/L	95
50) 1,2-Dibromoethane	8.57	107	20370	7.378	ug/L	99
51) Chlorobenzene	9.10	112	51715	7.350	ug/L	98
52) Ethylbenzene	9.23	91	89146	6.897	ug/L	100
53) m,p-Xylene	9.35	106	31233	6.861	ug/L	93
54) o-xylene	9.76	106	31998	7.034	ug/L	94
55) Styrene	9.77	104	55365	7.151	ug/L	100
56) Isopropylbenzene	10.14	105	91268	7.390	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	42955	8.464	ug/L	96
59) 1,2,3-Trichloropropane	10.47	75	36782	8.949	ug/L	99
61) Bromoform	9.94	173	14759	7.981	ug/L	94
62) 1,3-Dichlorobenzene	11.40	146	37759	8.141	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	38277	8.115	ug/L	95
65) 1,2-Dichlorobenzene	11.86	146	42344	8.937	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.64	75	7879	7.821	ug/L	92
67) 1,3,5-Trichlorobenzene	12.87	180	25507	8.093	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	17330m	7.035	ug/L	
69) Naphthalene	13.73	128	47928m	5.640	ug/L	
70) 1,2,3-Trichlorobenzene	13.97	180	18225	7.104	ug/L	98

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

MD
10/1/2019