

Data File : VV010346.D
Acq On : 18 Apr 2019 12:49
Operator : SY/MD
Sample : VSTD05004
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05004

Quant Time: Apr 18 13:10:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041819S.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 18 12:43:26 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	312301	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	310553	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	172432	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	185908	51.71	ug/L	0.00
7) Chloroethane-d5	1.57	69	154906	50.14	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	446817	48.83	ug/L	0.00
20) 2-Butanone-d5	3.94	46	129699	142.57	ug/L	0.00
24) Chloroform-d	4.40	84	414475	58.12	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	241664	59.49	ug/L	0.00
29) Benzene-d6	5.10	84	781636	52.20	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	232855	52.28	ug/L	0.00
37) Toluene-d8	7.36	98	781429	53.51	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	119876	64.55	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	115431	150.05	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	242374	60.63	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	341778	53.67	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	226362	45.230	ug/L	97
3) Chloromethane	1.25	50	193474	47.113	ug/L	99
5) Vinyl chloride	1.32	62	202156	45.778	ug/L	99
6) Bromomethane	1.52	94	133591	37.325	ug/L	99
8) Chloroethane	1.59	64	123721	44.930	ug/L	98
9) Trichlorofluoromethane	1.76	101	410221	45.867	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	214860	44.875	ug/L	97
12) 1,1-Dichloroethene	2.14	96	189480	45.987	ug/L	92
13) Acetone	2.19	43	102099	105.037	ug/L	100
14) Carbon disulfide	2.31	76	464480	46.679	ug/L	100
15) Methyl Acetate	2.46	43	101084	58.389	ug/L	93
16) Methylene chloride	2.53	84	200328	32.754	ug/L	99
17) Methyl tert-butyl Ether	2.81	73	497146	55.758	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	183725	46.928	ug/L	96
19) 1,1-Dichloroethane	3.23	63	323587	50.246	ug/L	98
21) 2-Butanone	4.02	43	139422	125.757	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	214728	50.408	ug/L	100
23) Bromochloromethane	4.30	128	108213	51.589	ug/L	95
25) Chloroform	4.43	83	374796	48.995	ug/L	99
27) 1,2-Dichloroethane	5.18	62	272537	55.669	ug/L	99
30) Cyclohexane	4.73	56	266426	45.812	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	330339	50.852	ug/L	98
32) Carbon tetrachloride	4.87	117	309491	51.126	ug/L	99
34) Benzene	5.15	78	729036	46.311	ug/L	100
35) Trichloroethene	5.96	95	208779	45.901	ug/L	99
36) Methylcyclohexane	6.18	83	314474	46.269	ug/L	99
40) 1,2-Dichloropropane	6.22	63	190540	49.466	ug/L	100
41) Bromodichloromethane	6.56	83	278128	54.189	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	313165	53.648	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	305497	122.538	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Thu Apr 18 12:43:26 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	846636	47.839	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	290164	59.229	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	173603	53.130	ug/L	98
47) Tetrachloroethene	8.02	164	189090	46.895	ug/L	98
49) 2-Hexanone	8.18	43	221335	135.030	ug/L	98
50) Dibromochloromethane	8.29	129	228374	57.136	ug/L	99
51) 1,2-Dibromoethane	8.40	107	175435	52.642	ug/L	98
52) Chlorobenzene	8.93	112	586838	47.520	ug/L	99
53) Ethylbenzene	9.05	91	966879	49.545	ug/L	100
54) m,p-Xylene	9.18	106	389402	50.581	ug/L	95
55) o-xylene	9.59	106	371063	48.401	ug/L	97
56) Styrene	9.60	104	643475	52.716	ug/L	99
57) Isopropylbenzene	9.97	105	979745	50.282	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	225286	55.785	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	163346	54.958	ug/L	98
62) Bromoform	9.77	173	138830	55.477	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	511693	47.860	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	527659	48.501	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	496303	48.630	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	39383	68.213	ug/L	90
67) 1,3,5-Trichlorobenzene	12.69	180	427152	53.917	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	358838	66.103	ug/L	99
69) Naphthalene	13.55	128	699508	94.824	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	349028	69.328	ug/L	100

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

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Instrument :
MSVOA_V
ClientSampleId :
VSTD05004

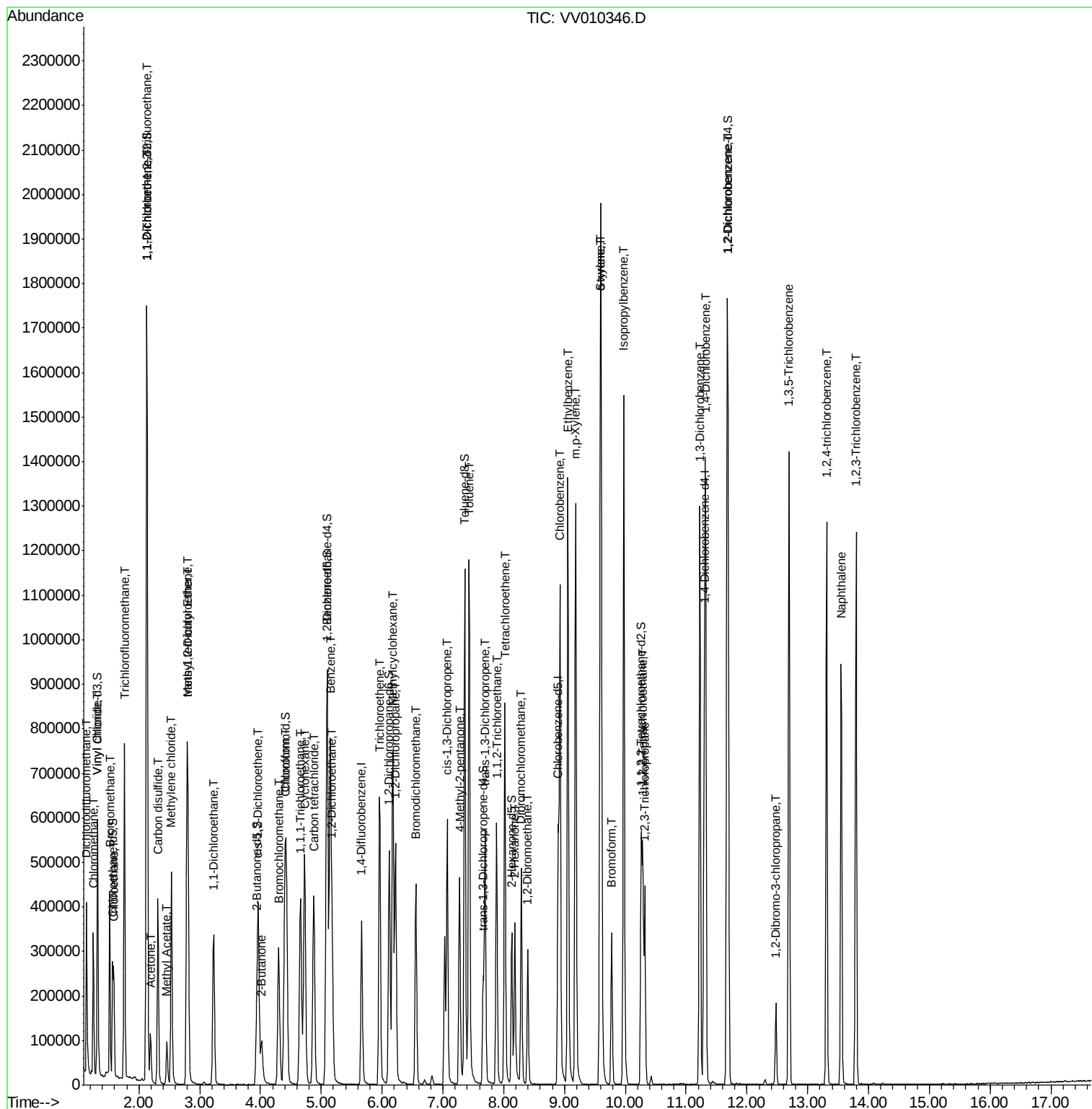
Quant Time: Apr 18 13:10:38 2019

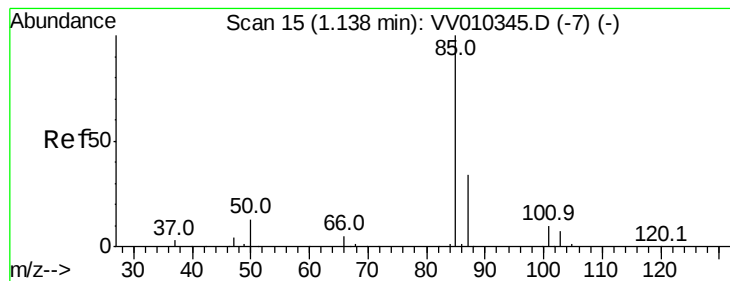
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM041819S.M

Quant Title : VOC Analysis

QLast Update : Thu Apr 18 12:43:26 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 45.230 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV010346.D

Acq: 18 Apr 2019 12:49

Instrument :

MSVOA_V

ClientSampleId :

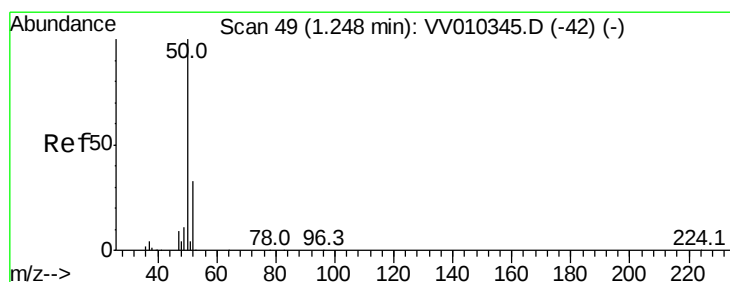
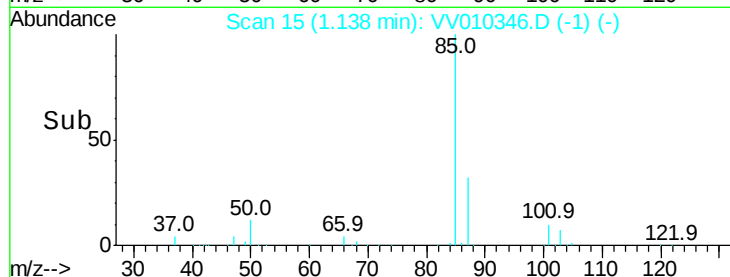
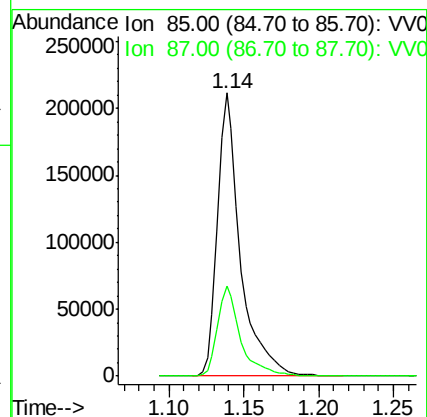
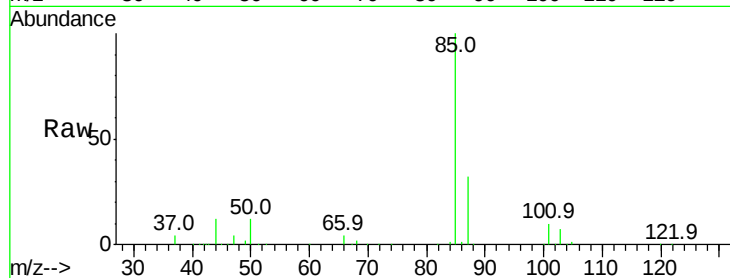
VSTD05004

Tgt Ion: 85 Resp: 226362

Ion Ratio Lower Upper

85 100

87 32.0 23.4 43.4



#3

Chloromethane

Concen: 47.113 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV010346.D

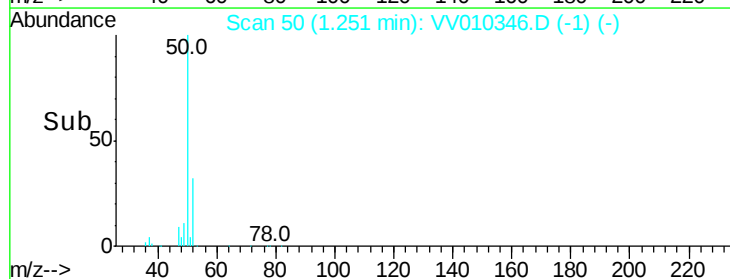
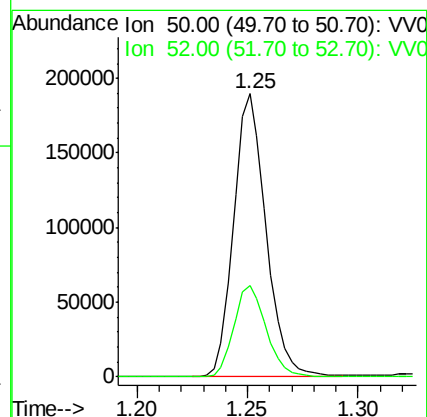
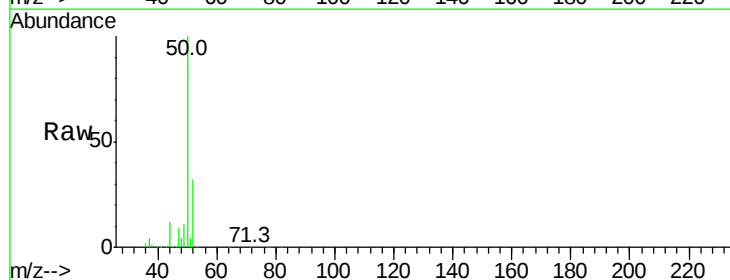
Acq: 18 Apr 2019 12:49

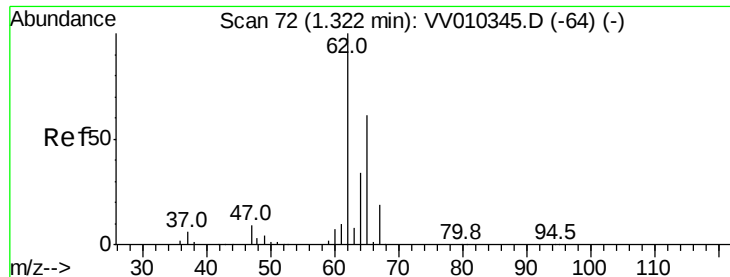
Tgt Ion: 50 Resp: 193474

Ion Ratio Lower Upper

50 100

52 32.4 23.2 43.2





#5

Vinyl chloride

Concen: 45.778 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010346.D

Acq: 18 Apr 2019 12:49

Instrument :

MSVOA_V

ClientSampleId :

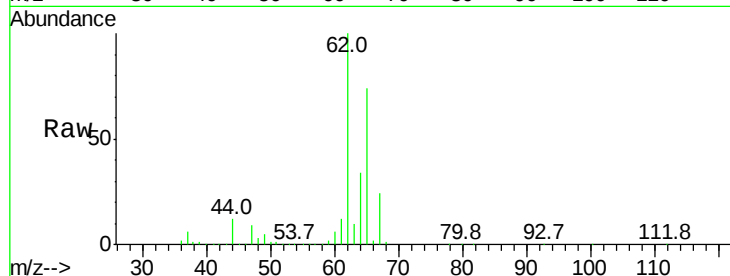
VSTD05004

Tgt Ion: 62 Resp: 202156

Ion Ratio Lower Upper

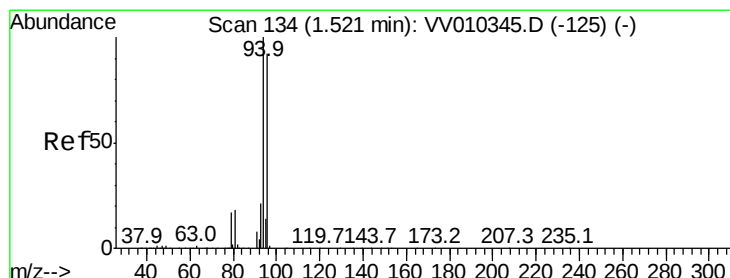
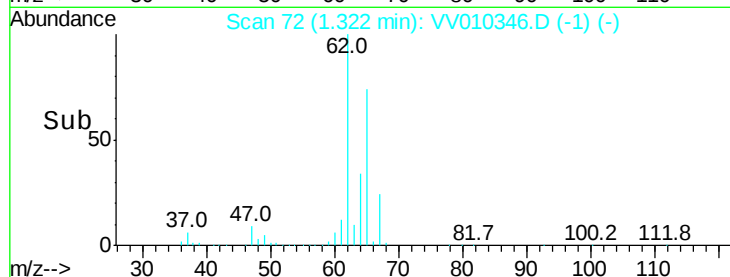
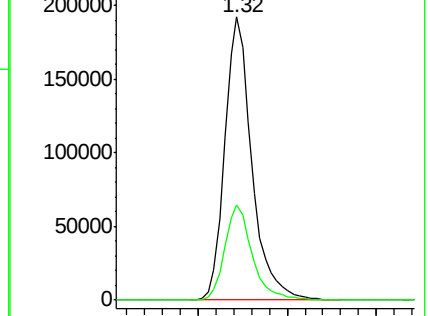
62 100

64 33.5 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 37.325 ug/L

RT: 1.52 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV010346.D

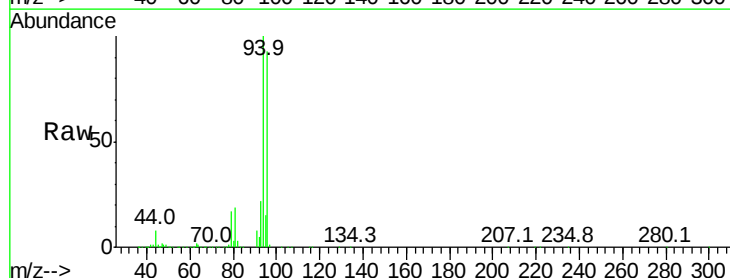
Acq: 18 Apr 2019 12:49

Tgt Ion: 94 Resp: 133591

Ion Ratio Lower Upper

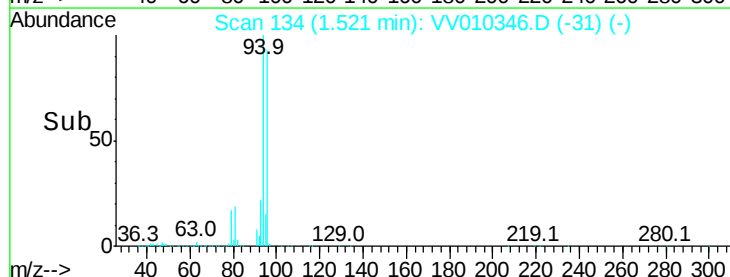
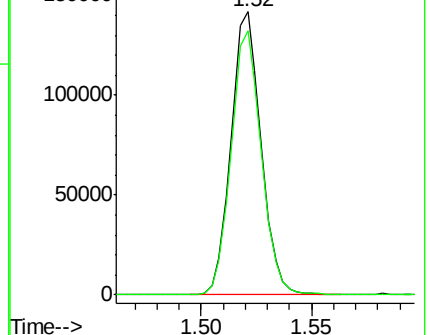
94 100

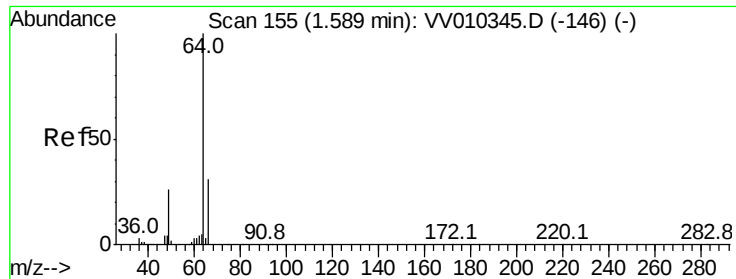
96 94.3 9.3 177.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 44.930 ug/L

RT: 1.59 min Scan# 155

Delta R.T. -0.00 min

Lab File: VV010346.D

Acq: 18 Apr 2019 12:49

Instrument :

MSVOA_V

ClientSampleId :

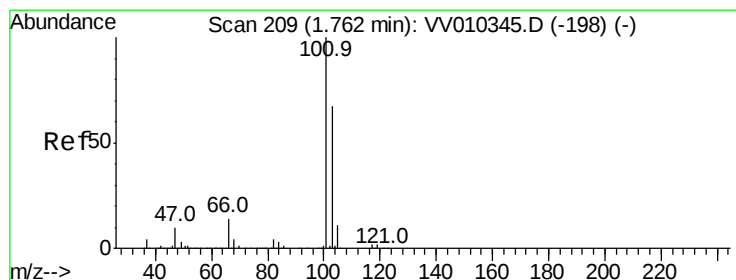
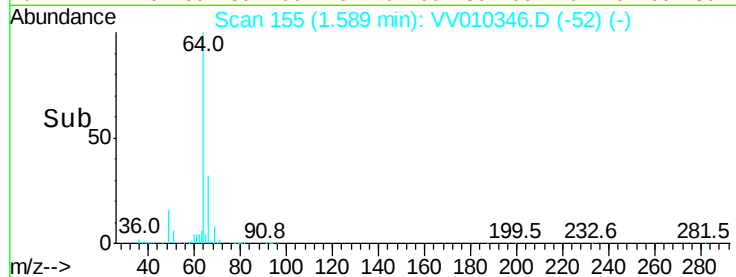
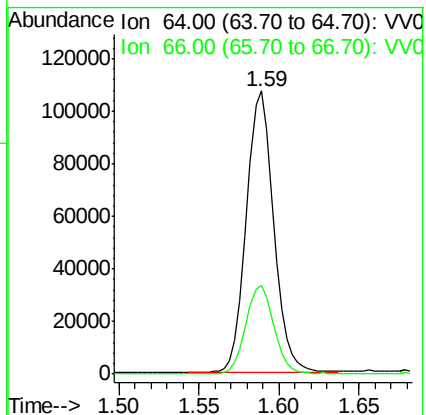
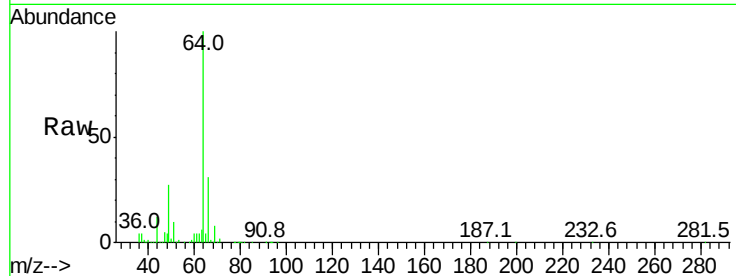
VSTD05004

Tgt Ion: 64 Resp: 123721

Ion Ratio Lower Upper

64 100

66 31.4 21.4 39.8



#9

Trichlorofluoromethane

Concen: 45.867 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV010346.D

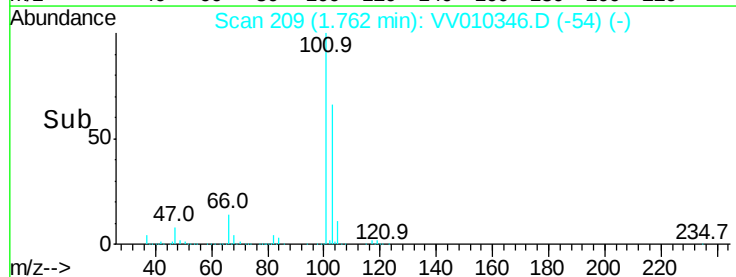
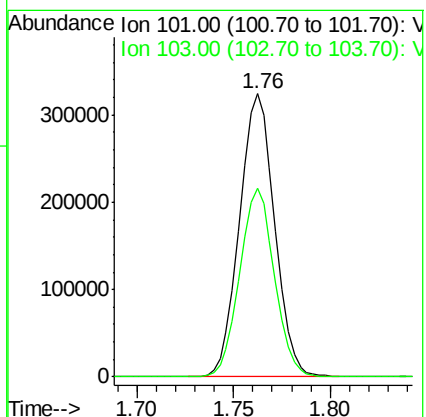
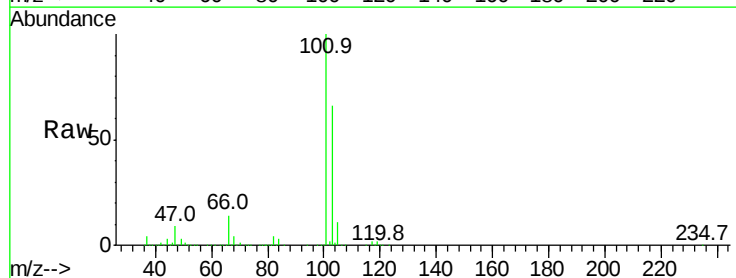
Acq: 18 Apr 2019 12:49

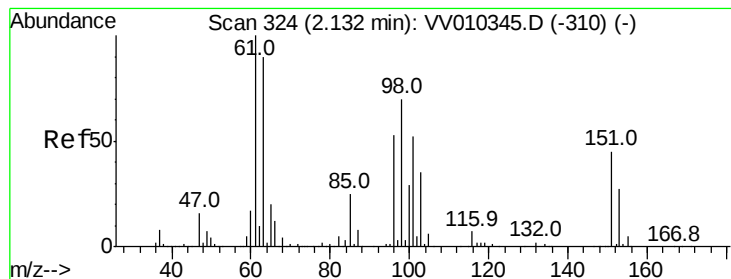
Tgt Ion: 101 Resp: 410221

Ion Ratio Lower Upper

101 100

103 65.7 45.5 84.5





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 44.875 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV010346.D

Acq: 18 Apr 2019 12:49

Instrument :

MSVOA_V

ClientSampleId :

VSTD05004

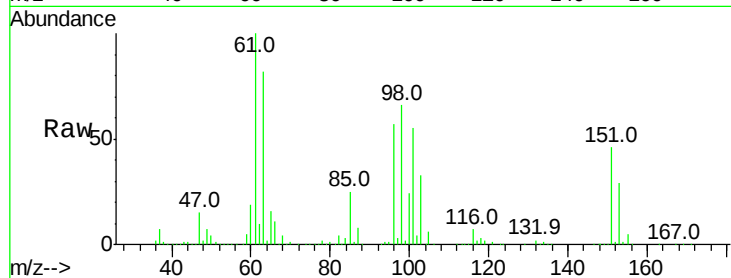
Tgt Ion:101 Resp: 214860

Ion Ratio Lower Upper

101 100

85 45.9 37.3 55.9

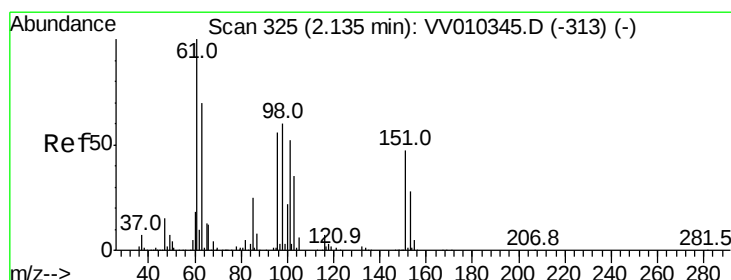
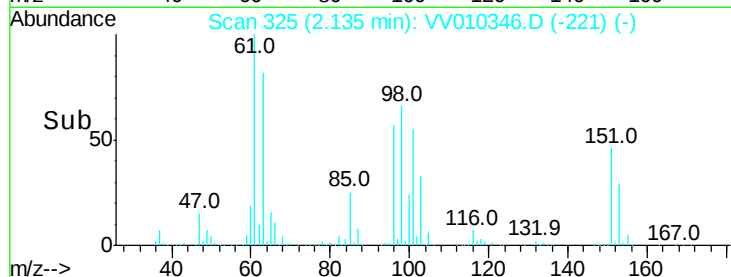
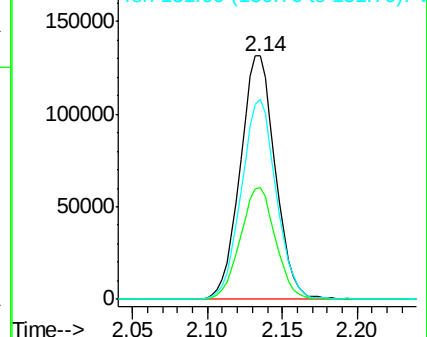
151 81.6 67.8 101.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.987 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010346.D

Acq: 18 Apr 2019 12:49

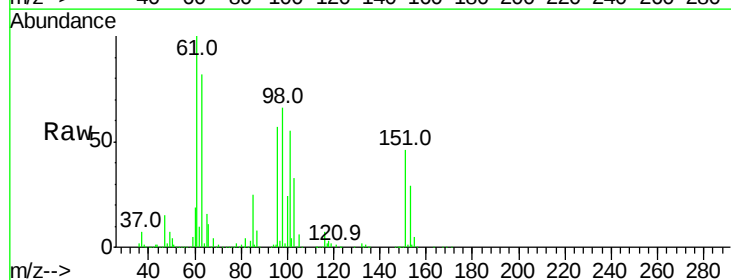
Tgt Ion: 96 Resp: 189480

Ion Ratio Lower Upper

96 100

61 174.4 124.7 231.5

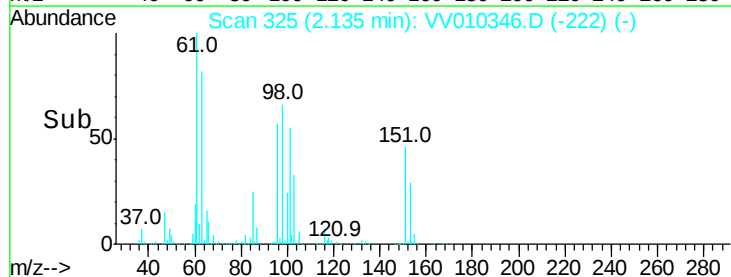
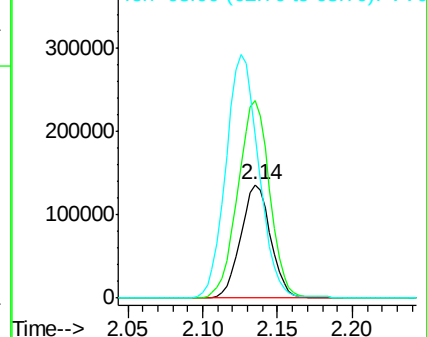
63 143.7 88.7 164.7

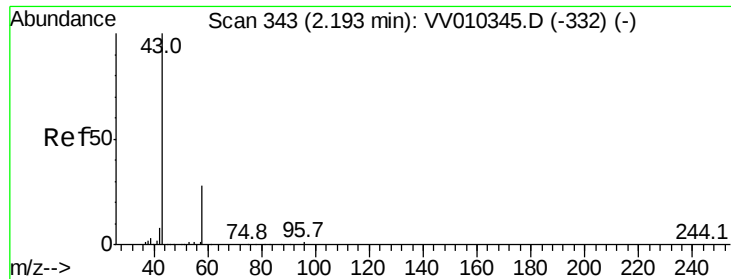


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 105.037 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

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Acq: 18 Apr 2019 12:49

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ClientSampleId :

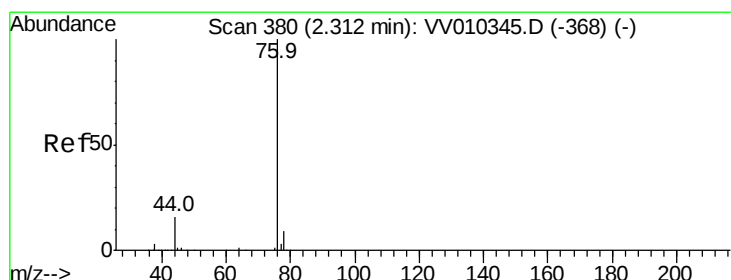
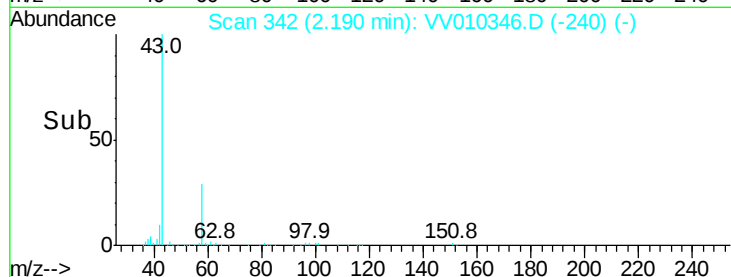
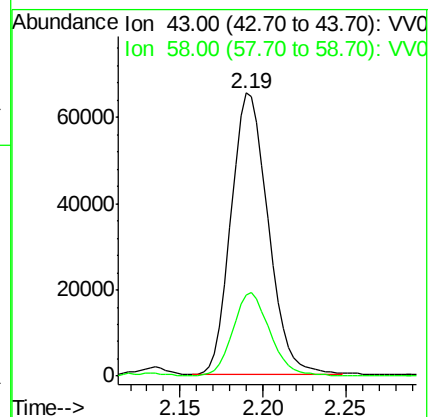
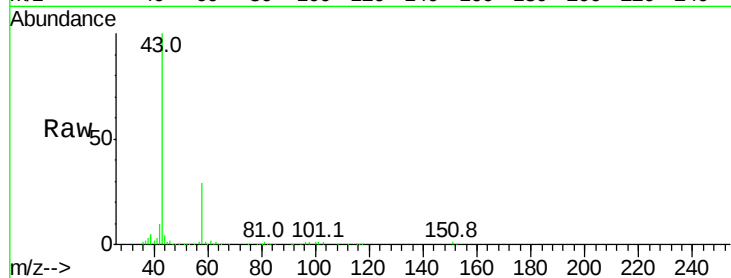
VSTD05004

Tgt Ion: 43 Resp: 102099

Ion Ratio Lower Upper

43 100

58 29.8 0.0 60.0



#14

Carbon disulfide

Concen: 46.679 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV010346.D

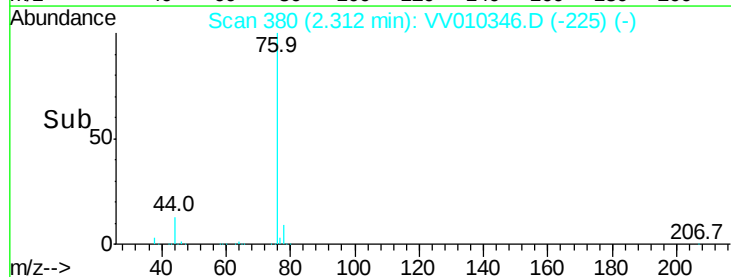
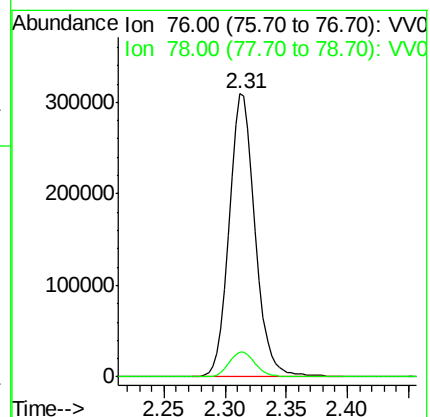
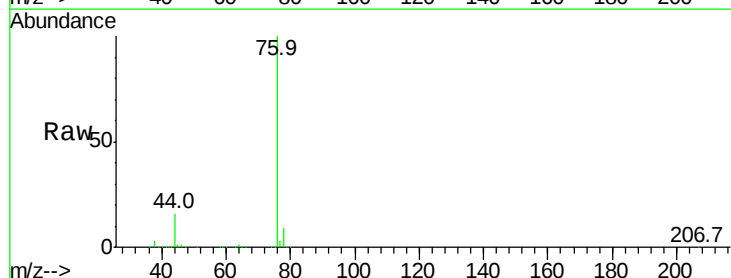
Acq: 18 Apr 2019 12:49

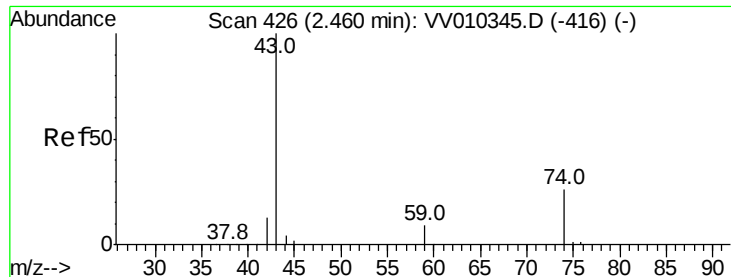
Tgt Ion: 76 Resp: 464480

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7





#15

Methyl Acetate

Concen: 58.389 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VV010346.D

Acq: 18 Apr 2019 12:49

Instrument :

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ClientSampleId :

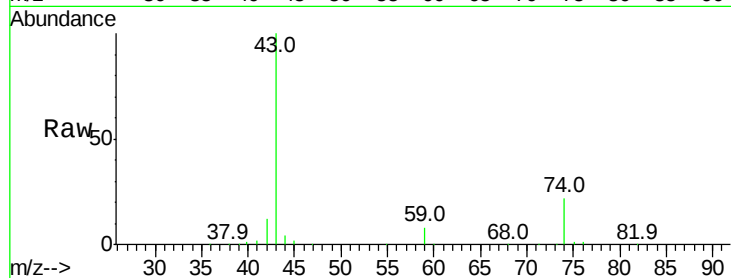
VSTD05004

Tgt Ion: 43 Resp: 101084

Ion Ratio Lower Upper

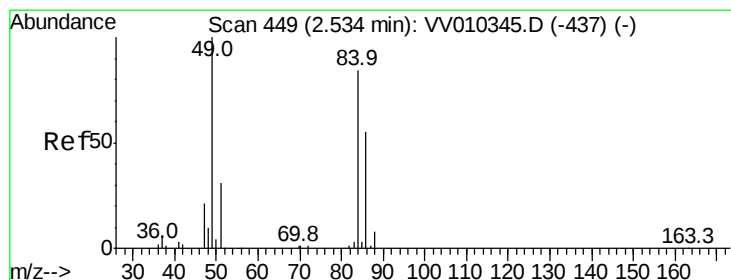
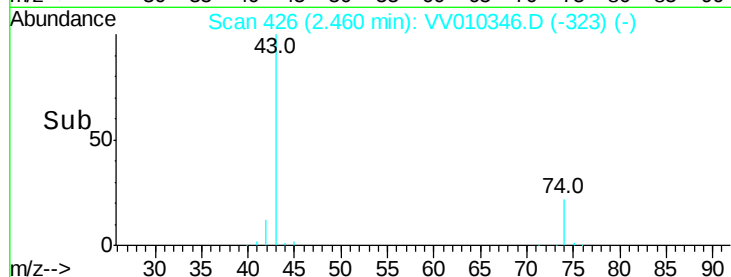
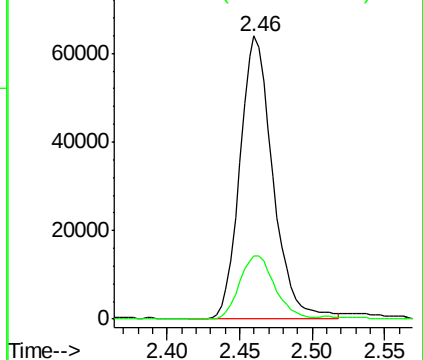
43 100

74 23.9 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 32.754 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV010346.D

Acq: 18 Apr 2019 12:49

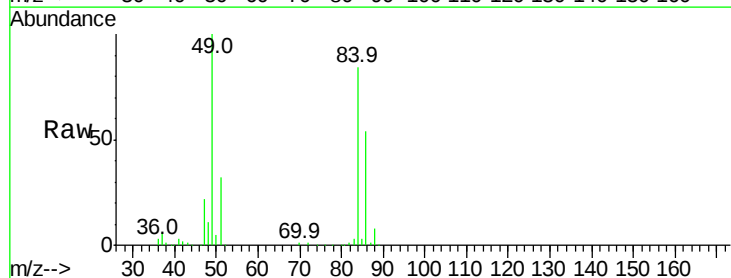
Tgt Ion: 84 Resp: 200328

Ion Ratio Lower Upper

84 100

49 119.3 83.8 155.6

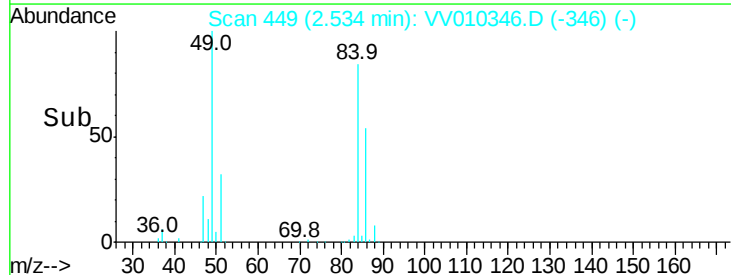
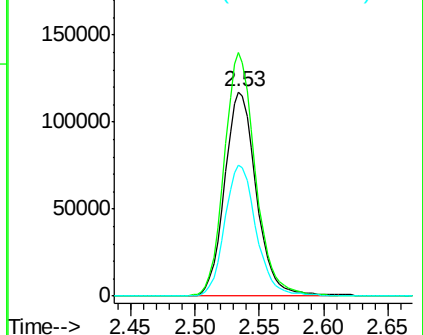
86 64.2 46.1 85.5

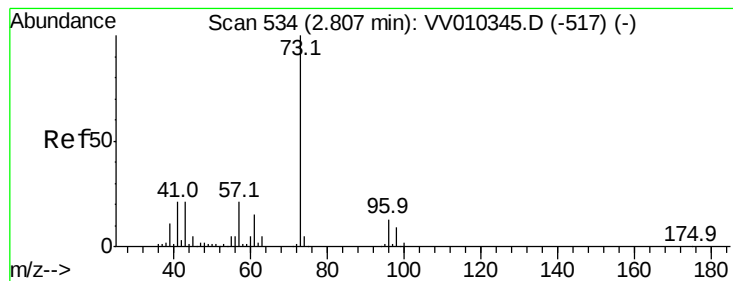


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0





#17

Methyl tert-butyl Ether

Concen: 55.758 ug/L

RT: 2.81 min Scan# 534

Delta R.T. -0.00 min

Lab File: VV010346.D

Acq: 18 Apr 2019 12:49

Instrument :

MSVOA_V

ClientSampleId :

VSTD05004

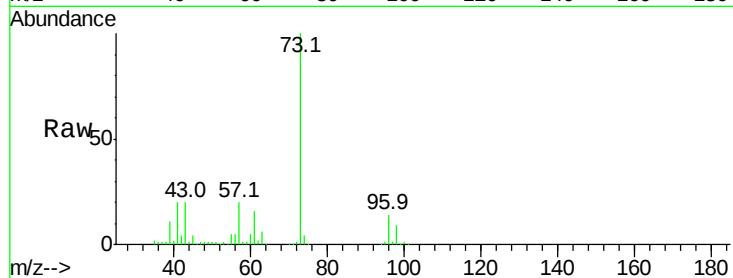
Tgt Ion: 73 Resp: 497146

Ion Ratio Lower Upper

73 100

43 20.3 16.6 24.8

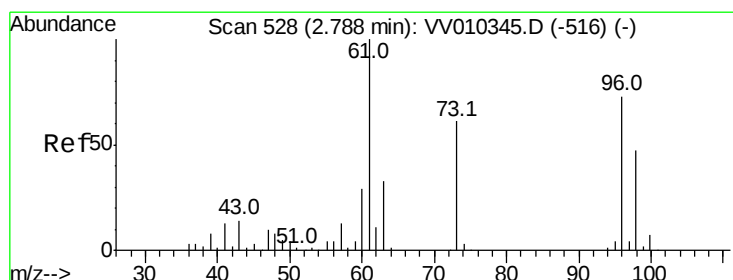
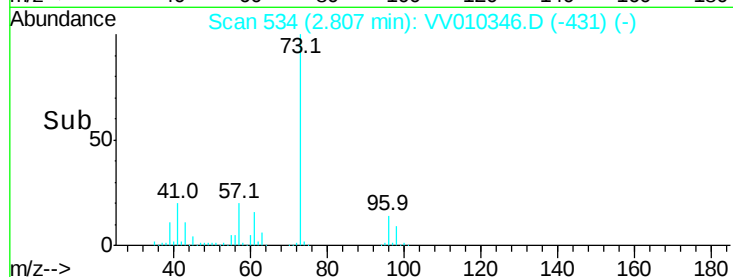
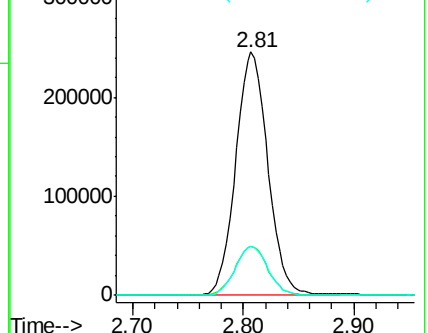
57 20.5 17.0 25.6



Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0



#18

trans-1,2-Dichloroethene

Concen: 46.928 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV010346.D

Acq: 18 Apr 2019 12:49

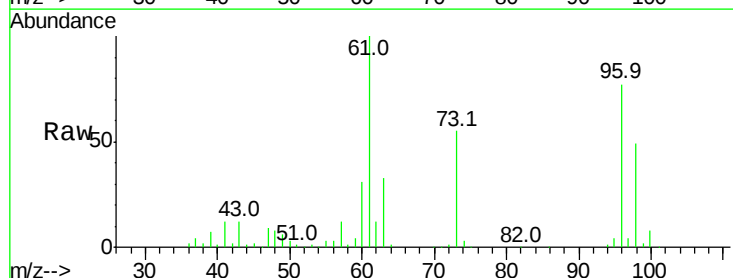
Tgt Ion: 96 Resp: 183725

Ion Ratio Lower Upper

96 100

61 130.4 96.3 178.9

98 63.6 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

