

Data File : VV012931.D
Acq On : 23 Sep 2019 11:27
Operator : SY/MD
Sample : VSTD05004
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

Quant Time: Sep 23 11:50:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
Quant Title : VOC Analysis
QLast Update : Mon Sep 23 11:20:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	780950	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	785077	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	426028	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	589804	53.34	ug/L	0.00
7) Chloroethane-d5	1.58	69	475347	52.21	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	976514	52.67	ug/L	0.00
20) 2-Butanone-d5	3.94	46	472427	125.38	ug/L	0.00
24) Chloroform-d	4.40	84	1061128	57.16	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	628232	60.37	ug/L	0.00
29) Benzene-d6	5.10	84	2202427	55.12	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.11	67	687380	56.35	ug/L	0.00
37) Toluene-d8	7.36	98	2079961	57.33	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	306840	60.43	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	336880	144.52	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	683798	60.83	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	816972	55.71	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	469278	54.290	ug/L	100
3) Chloromethane	1.25	50	556140	49.295	ug/L	98
5) Vinyl chloride	1.32	62	557026	49.666	ug/L	99
6) Bromomethane	1.53	94	346900	50.766	ug/L	100
8) Chloroethane	1.60	64	329710	46.977	ug/L	99
9) Trichlorofluoromethane	1.77	101	742663	49.938	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	463533	49.481	ug/L	99
12) 1,1-Dichloroethene	2.14	96	432733	48.953	ug/L	99
13) Acetone	2.21	43	456260	93.821	ug/L	100
14) Carbon disulfide	2.32	76	1410382	50.131	ug/L	100
15) Methyl Acetate	2.46	43	363459	56.097	ug/L	98
16) Methylene chloride	2.53	84	550209	31.055	ug/L	99
17) Methyl tert-butyl Ether	2.80	73	1377195	57.089	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	519706	50.407	ug/L	99
19) 1,1-Dichloroethane	3.23	63	940934	50.654	ug/L	99
21) 2-Butanone	4.03	43	564374	101.333	ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	583147	53.410	ug/L	97
23) Bromochloromethane	4.30	128	284735	55.379	ug/L	98
25) Chloroform	4.42	83	977675	52.114	ug/L	100
27) 1,2-Dichloroethane	5.18	62	724342	55.368	ug/L	100
30) Cyclohexane	4.72	56	891292	48.891	ug/L	100
31) 1,1,1-Trichloroethane	4.66	97	765819	48.066	ug/L	99
32) Carbon tetrachloride	4.87	117	687171	48.225	ug/L	99
34) Benzene	5.14	78	2193308	49.486	ug/L	100
35) Trichloroethene	5.96	95	582498	48.325	ug/L	99
36) Methylcyclohexane	6.17	83	965571	49.181	ug/L	100
40) 1,2-Dichloropropane	6.22	63	575708	52.065	ug/L	99
41) Bromodichloromethane	6.55	83	735212	52.543	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	878139	53.363	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	1042295	115.429	ug/L	99

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VSTD05064

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
Quant Title : VOC Analysis
QLast Update : Mon Sep 23 11:20:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	2381645	50.831	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	760819	56.175	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	489571	53.816	ug/L	99
47) Tetrachloroethene	8.02	164	480067	48.789	ug/L	99
49) 2-Hexanone	8.18	43	832452	113.413	ug/L	97
50) Dibromochloromethane	8.29	129	573436	55.589	ug/L	100
51) 1,2-Dibromoethane	8.39	107	495485	55.265	ug/L	99
52) Chlorobenzene	8.92	112	1577393	50.309	ug/L	98
53) Ethylbenzene	9.05	91	2654307	51.066	ug/L	100
54) m,p-Xylene	9.18	106	1030558	52.425	ug/L	99
55) o-xylene	9.59	106	998900	53.923	ug/L	98
56) Styrene	9.60	104	1768800	55.092	ug/L	99
57) Isopropylbenzene	9.97	105	2602462	52.620	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	626704	54.453	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	507181	54.628	ug/L	100
62) Bromoform	9.77	173	377491	56.117	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	1308020	50.186	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	1337038	49.386	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	1253823	51.181	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	116127	55.041	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	1042535	50.407	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	939737	52.381	ug/L	100
69) Naphthalene	13.55	128	2124512	58.506	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	911839	52.274	ug/L	99

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

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```
ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

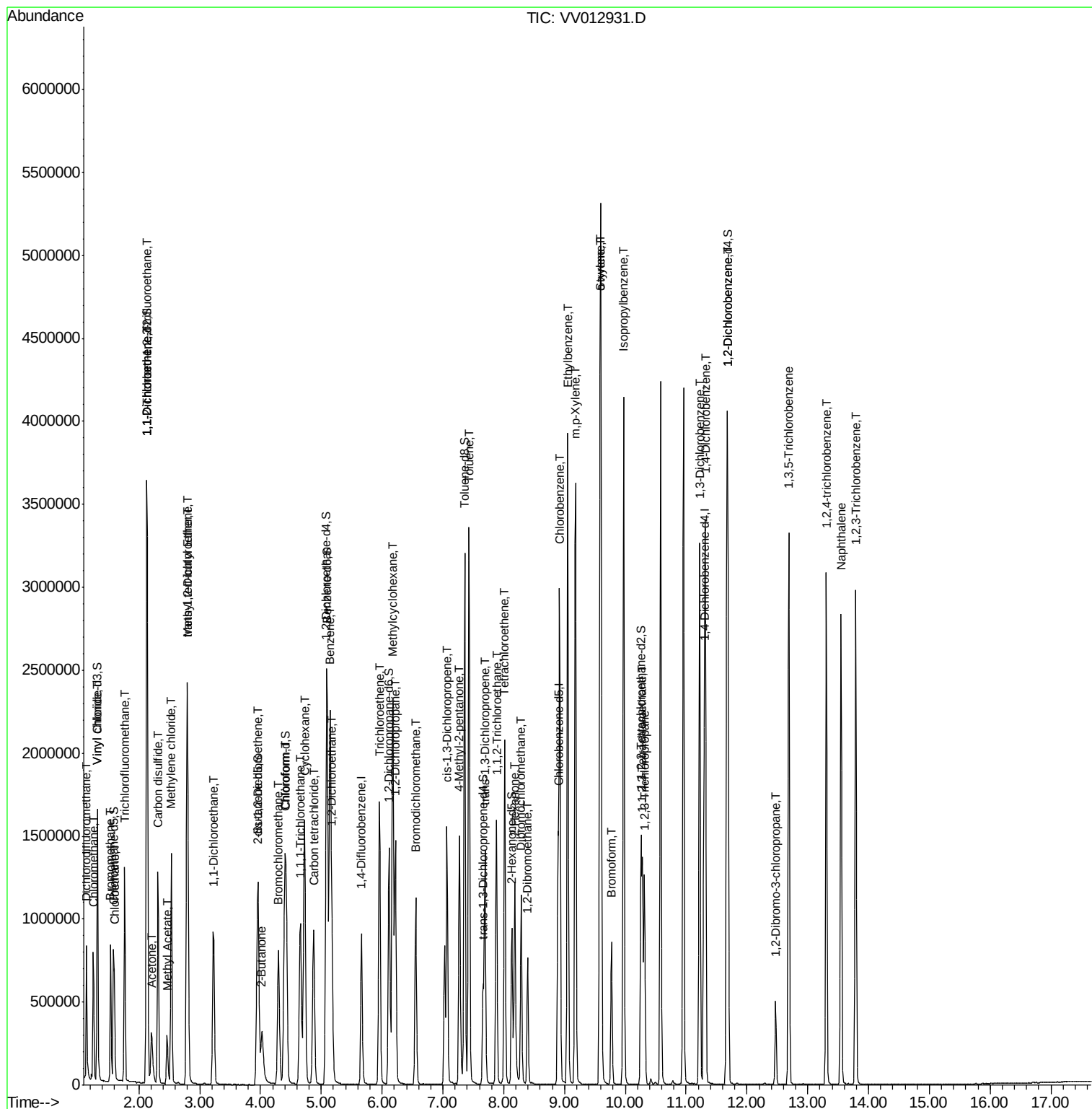
Quant Time: Sep 23 11:50:18 2019

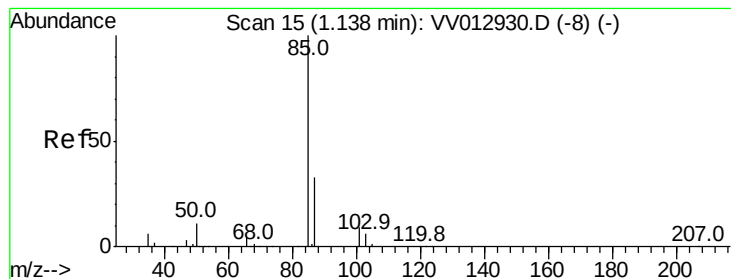
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M

Quant Title : VOC Analysis

QLast Update : Mon Sep 23 11:20:02 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 54.290 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012931.D

Acq: 23 Sep 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

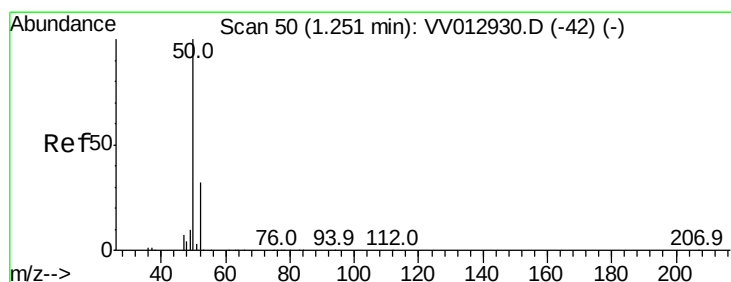
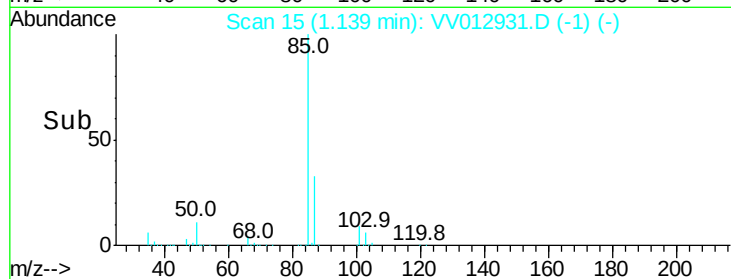
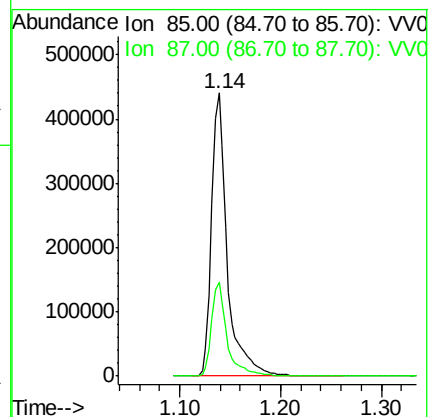
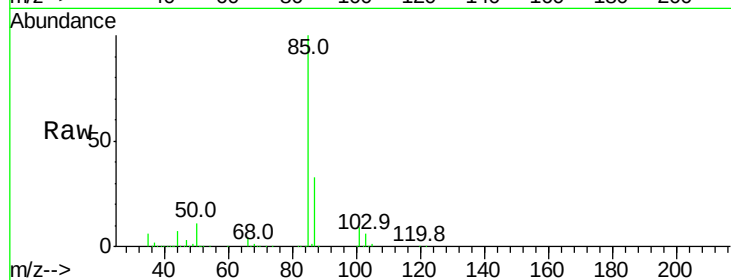
VSTD05064

Tgt Ion: 85 Resp: 469278

Ion Ratio Lower Upper

85 100

87 32.9 23.2 43.0



#3

Chloromethane

Concen: 49.295 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012931.D

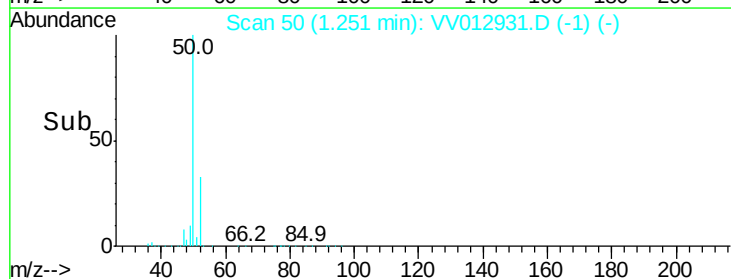
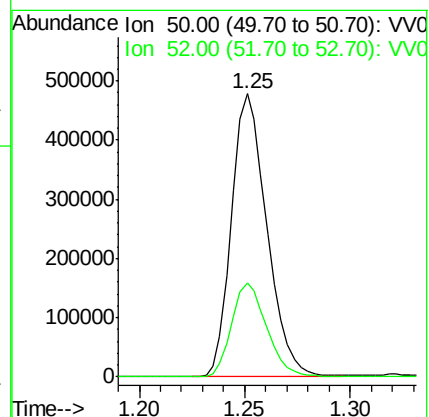
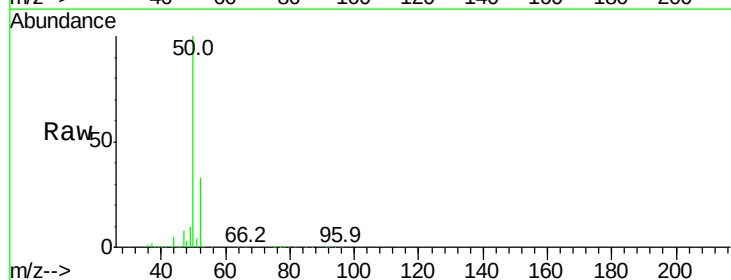
Acq: 23 Sep 2019 11:27

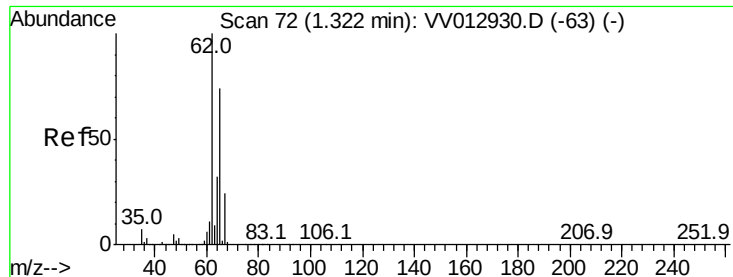
Tgt Ion: 50 Resp: 556140

Ion Ratio Lower Upper

50 100

52 33.4 22.7 42.1





#5

Vinyl chloride

Concen: 49.666 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012931.D

Acq: 23 Sep 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

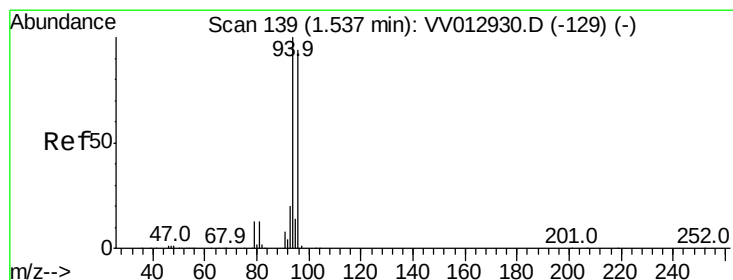
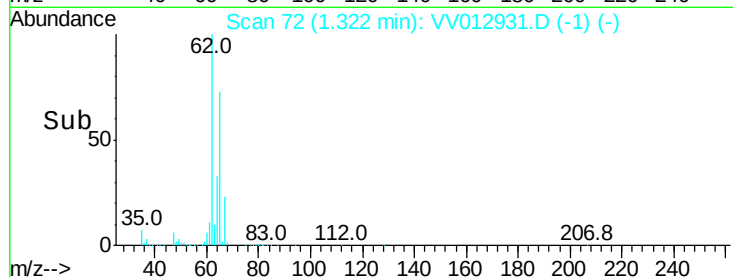
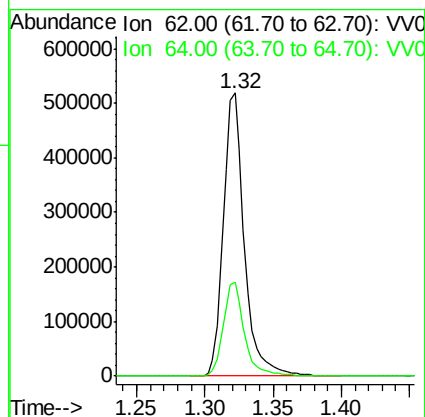
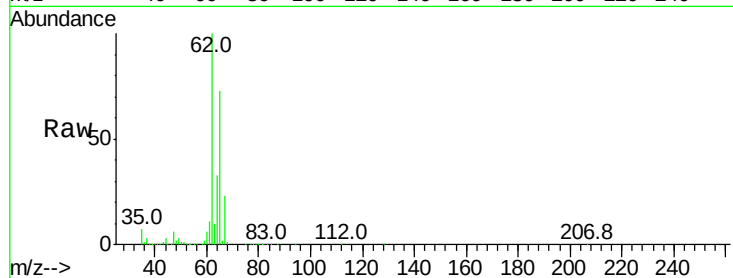
VSTD05064

Tgt Ion: 62 Resp: 557026

Ion Ratio Lower Upper

62 100

64 33.1 22.7 42.1



#6

Bromomethane

Concen: 50.766 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV012931.D

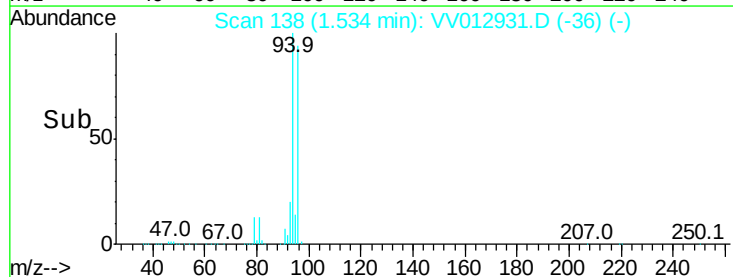
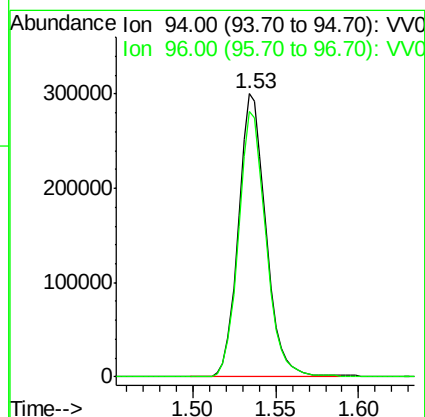
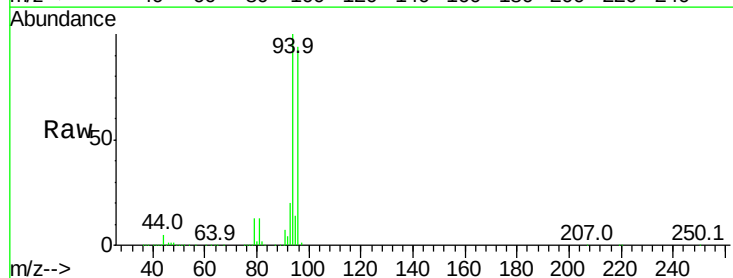
Acq: 23 Sep 2019 11:27

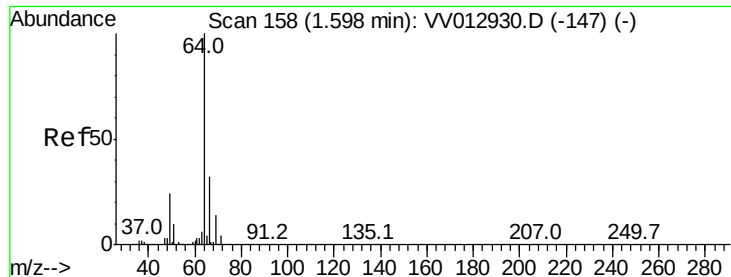
Tgt Ion: 94 Resp: 346900

Ion Ratio Lower Upper

94 100

96 93.8 9.4 177.8





#8

Chloroethane

Concen: 46.977 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012931.D

Acq: 23 Sep 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

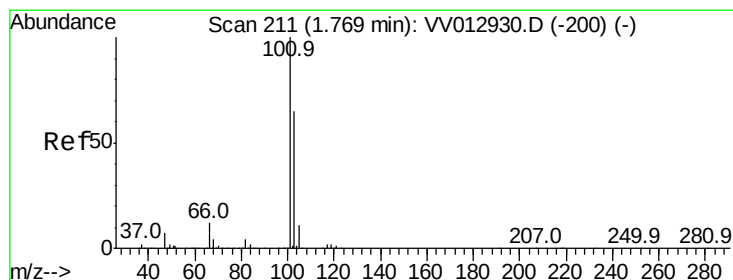
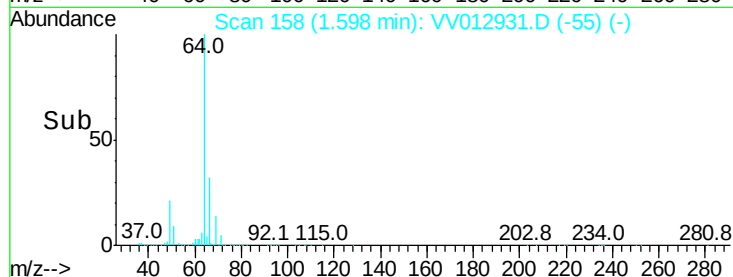
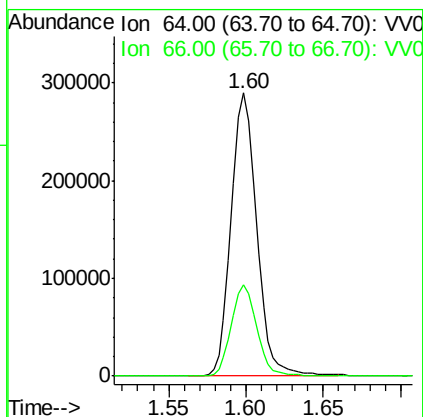
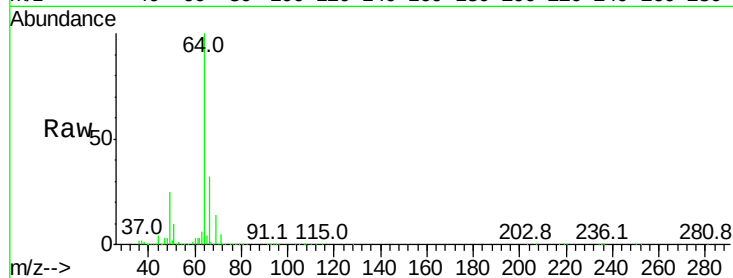
VSTD05064

Tgt Ion: 64 Resp: 329710

Ion Ratio Lower Upper

64 100

66 32.2 22.2 41.2



#9

Trichlorofluoromethane

Concen: 49.938 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV012931.D

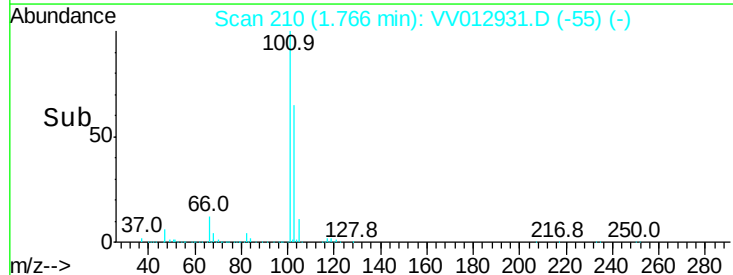
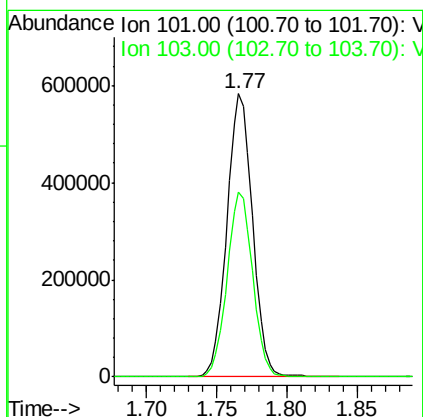
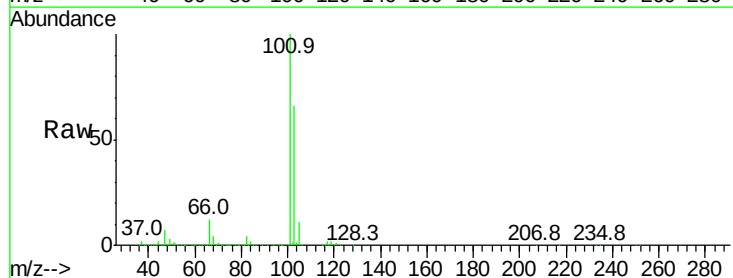
Acq: 23 Sep 2019 11:27

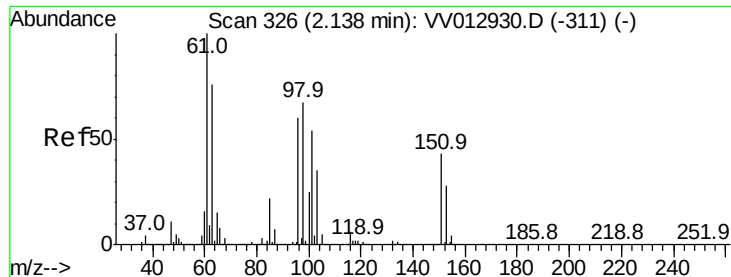
Tgt Ion: 101 Resp: 742663

Ion Ratio Lower Upper

101 100

103 64.9 45.1 83.9





#11

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

Concen: 49.481 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012931.D

Acq: 23 Sep 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

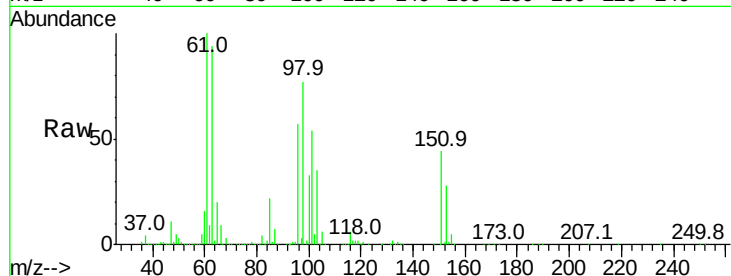
Tgt Ion: 101 Resp: 463533

Ion Ratio Lower Upper

101 100

85 41.5 32.6 49.0

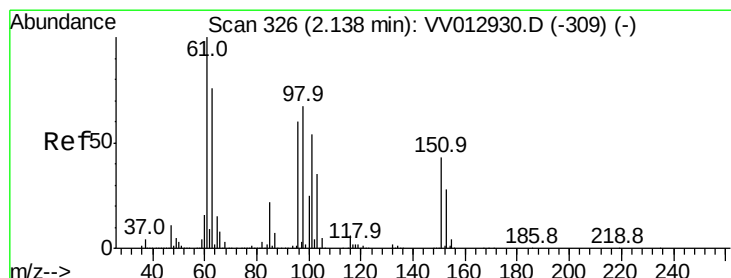
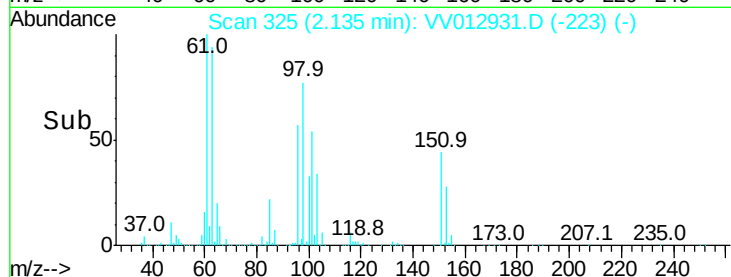
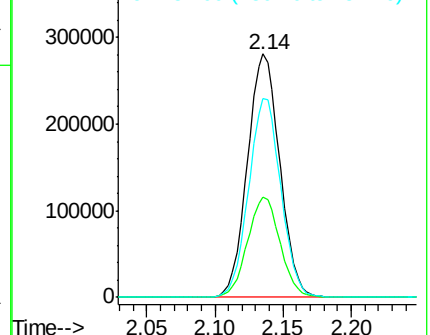
151 81.3 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV012931.D (-223) (-)

Ion 85.00 (84.70 to 85.70): VV012931.D (-223) (-)

Ion 151.00 (150.70 to 151.70): VV012931.D (-223) (-)



#12

1,1-Dichloroethene

Concen: 48.953 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012931.D

Acq: 23 Sep 2019 11:27

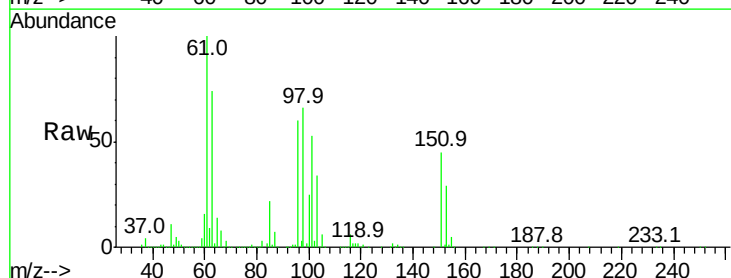
Tgt Ion: 96 Resp: 432733

Ion Ratio Lower Upper

96 100

61 167.5 117.2 217.8

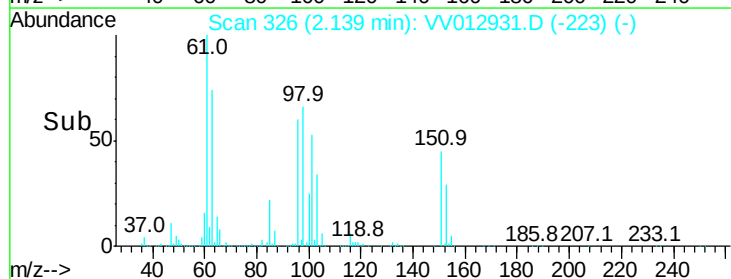
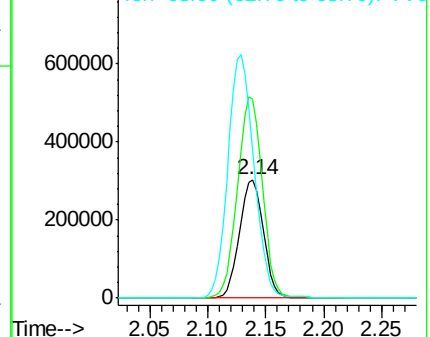
63 124.2 89.6 166.4

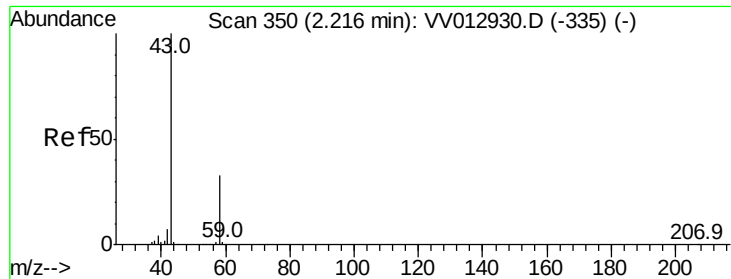


Abundance Ion 96.00 (95.70 to 96.70): VV012931.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV012931.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV012931.D (-223) (-)





#13

Acetone

Concen: 93.821 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.01 min

Lab File: VV012931.D

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Instrument :

MSVOA_V

ClientSampleId :

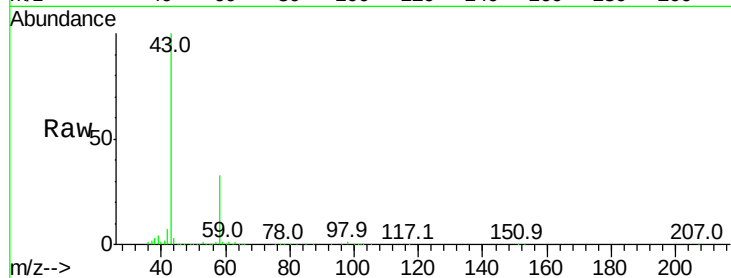
VSTD05064

Tgt Ion: 43 Resp: 456260

Ion Ratio Lower Upper

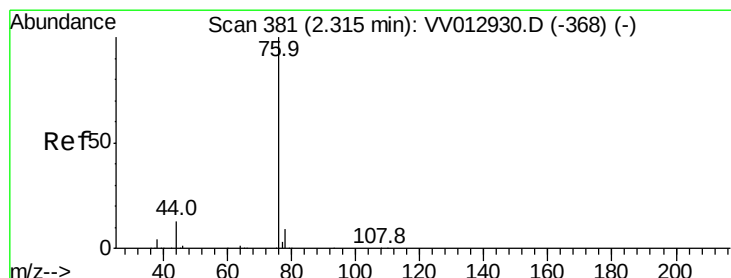
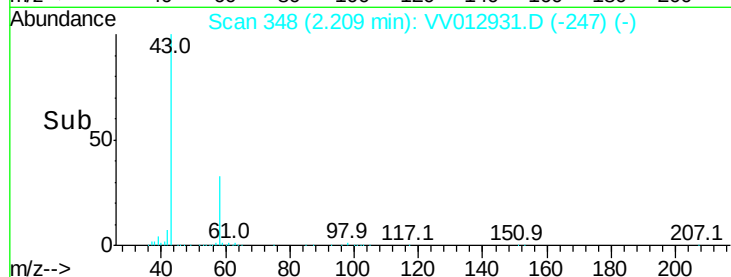
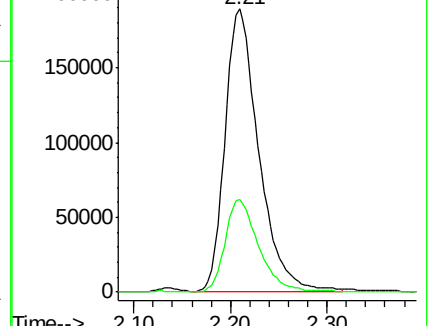
43 100

58 32.3 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 50.131 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012931.D

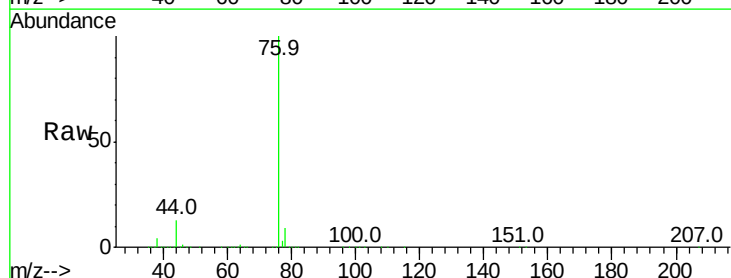
Acq: 23 Sep 2019 11:27

Tgt Ion: 76 Resp: 1410382

Ion Ratio Lower Upper

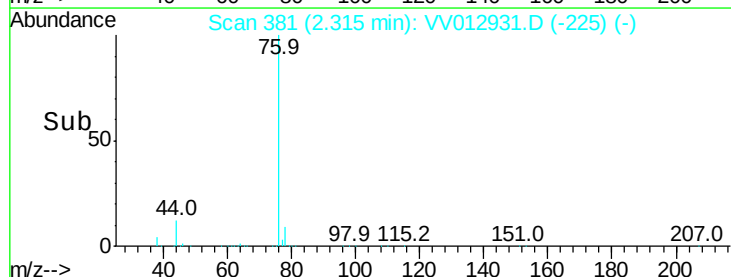
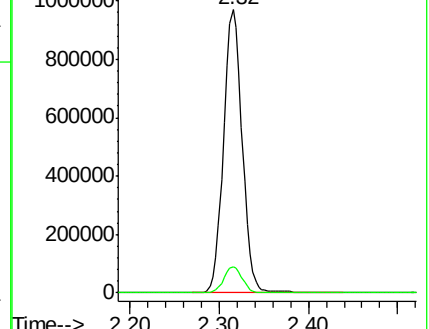
76 100

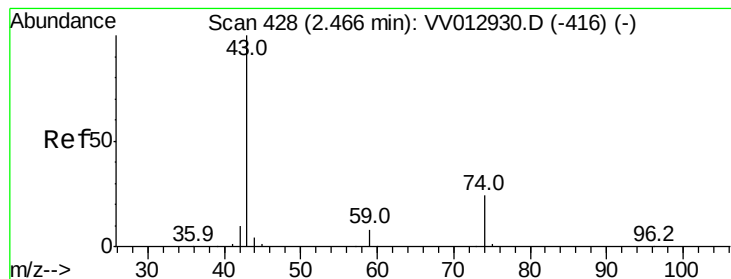
78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0





#15

Methyl Acetate

Concen: 56.097 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VV012931.D

Acq: 23 Sep 2019 11:27

Instrument :

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ClientSampleId :

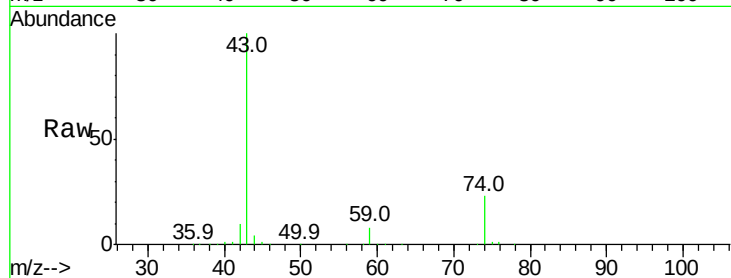
VSTD05064

Tgt Ion: 43 Resp: 363459

Ion Ratio Lower Upper

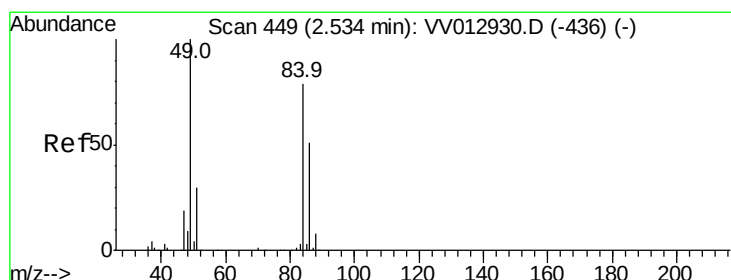
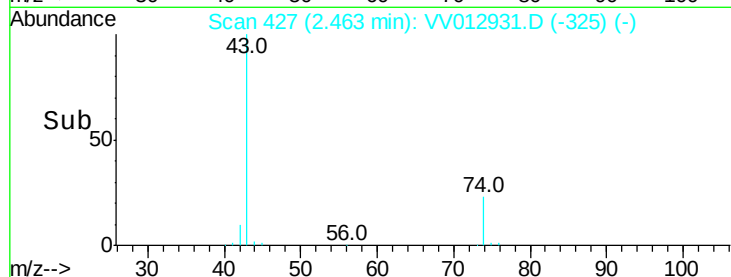
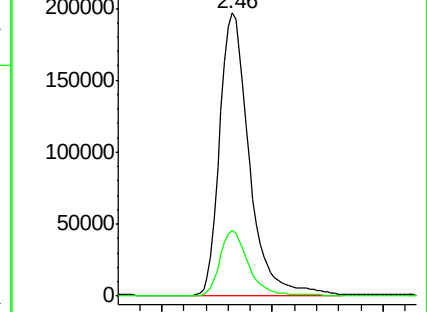
43 100

74 22.8 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 31.055 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV012931.D

Acq: 23 Sep 2019 11:27

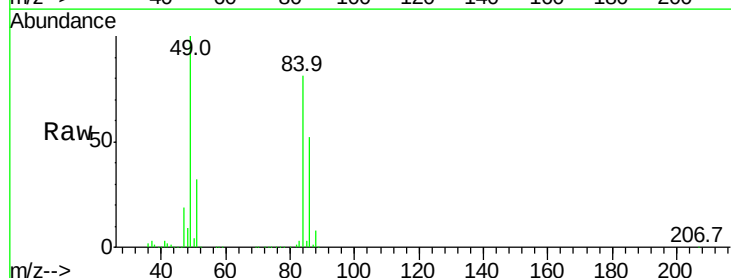
Tgt Ion: 84 Resp: 550209

Ion Ratio Lower Upper

84 100

49 123.9 88.3 164.1

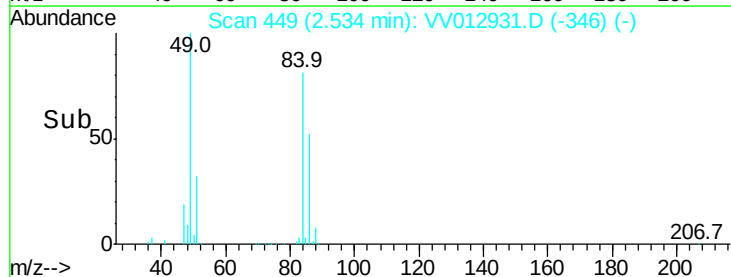
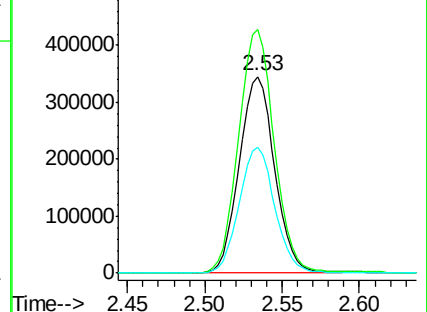
86 64.1 44.9 83.3

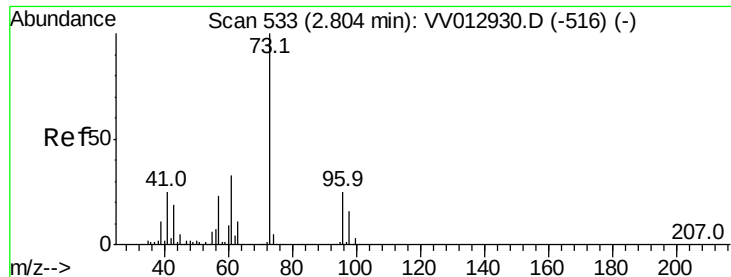


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

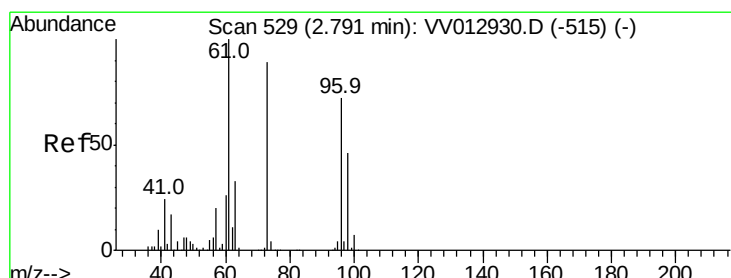
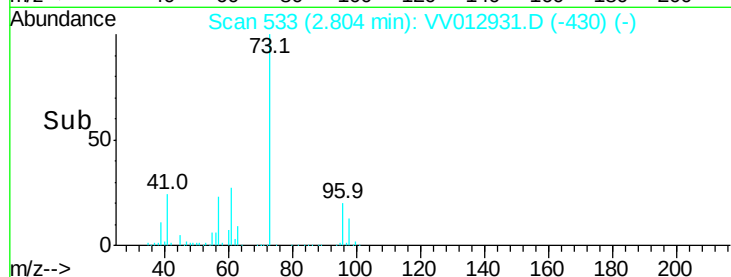
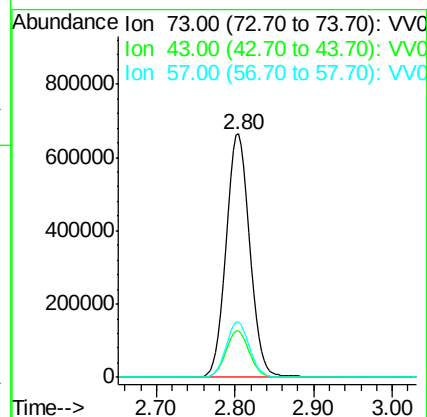
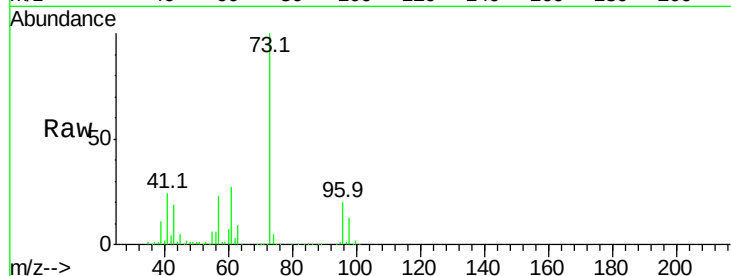




#17
Methyl tert-butyl Ether
Concen: 57.089 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV012931.D
Acq: 23 Sep 2019 11:27

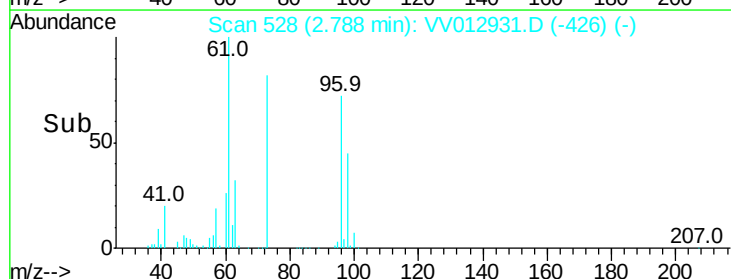
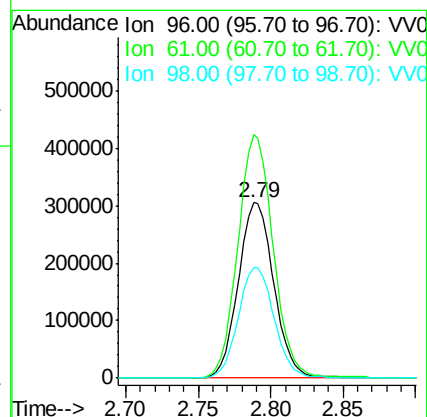
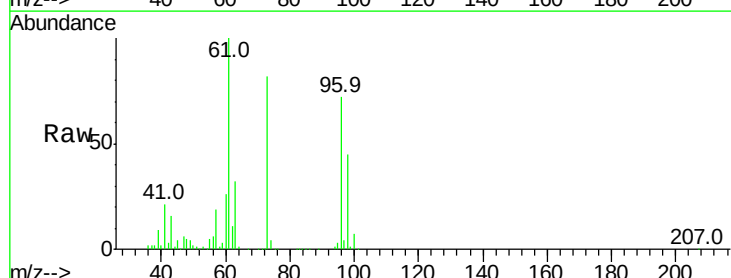
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

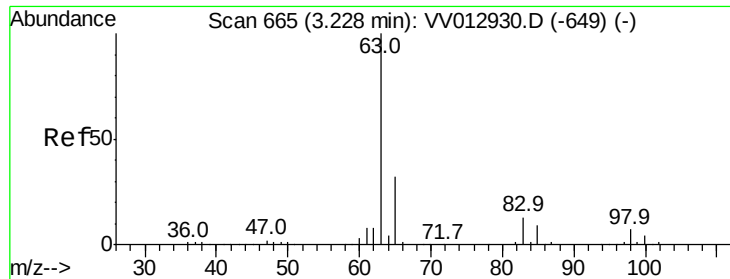
Tgt Ion: 73 Resp: 1377195
Ion Ratio Lower Upper
73 100
43 18.8 15.0 22.6
57 22.4 18.3 27.5



#18
trans-1,2-Dichloroethene
Concen: 50.407 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV012931.D
Acq: 23 Sep 2019 11:27

Tgt Ion: 96 Resp: 519706
Ion Ratio Lower Upper
96 100
61 138.6 96.8 179.8
98 62.8 44.8 83.2





#19

1,1-Dichloroethane

Concen: 50.654 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV012931.D

Acq: 23 Sep 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

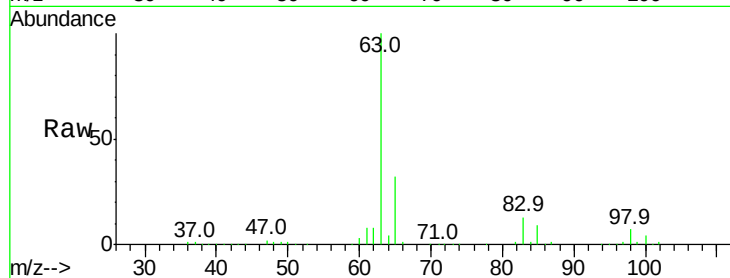
Tgt Ion: 63 Resp: 940934

Ion Ratio Lower Upper

63 100

65 31.8 22.0 41.0

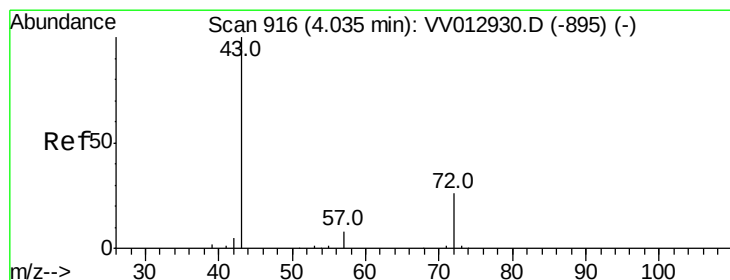
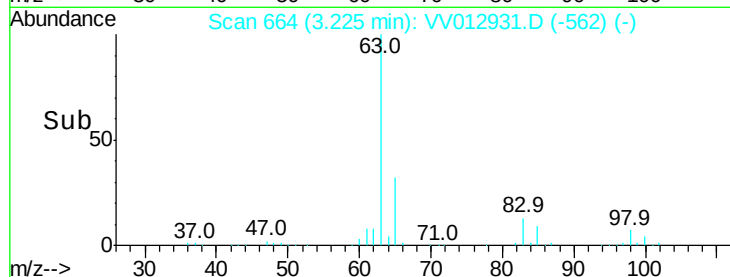
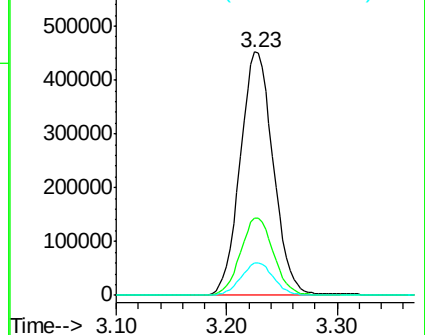
83 13.3 9.2 17.0



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#21

2-Butanone

Concen: 101.333 ug/L

RT: 4.03 min Scan# 913

Delta R.T. -0.01 min

Lab File: VV012931.D

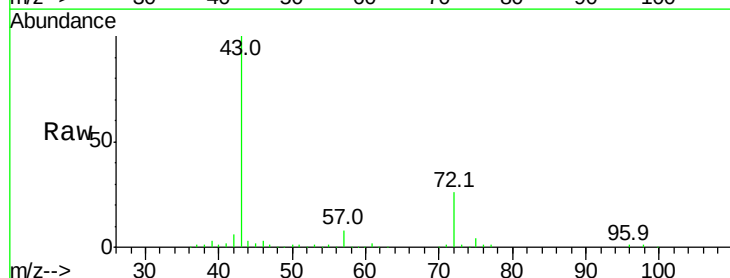
Acq: 23 Sep 2019 11:27

Tgt Ion: 43 Resp: 564374

Ion Ratio Lower Upper

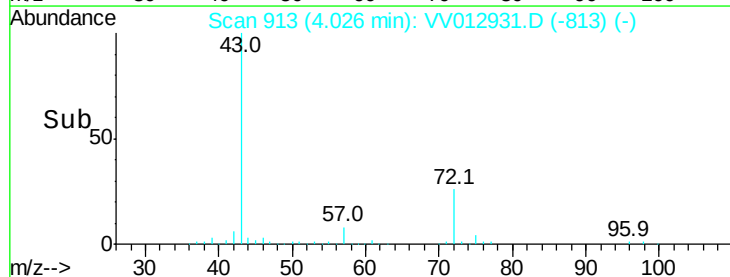
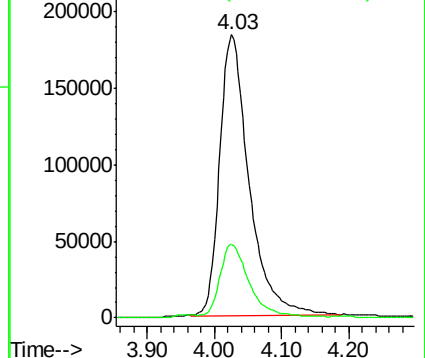
43 100

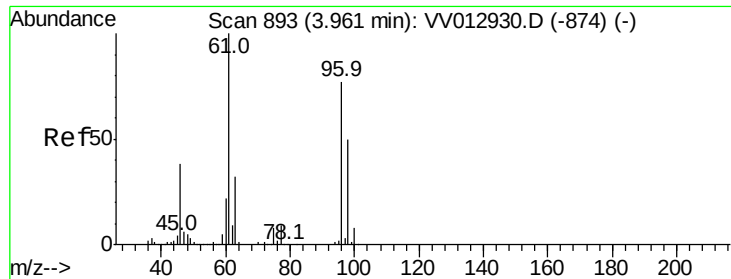
72 24.5 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0



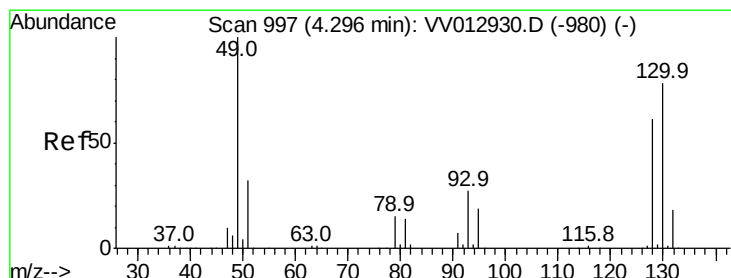
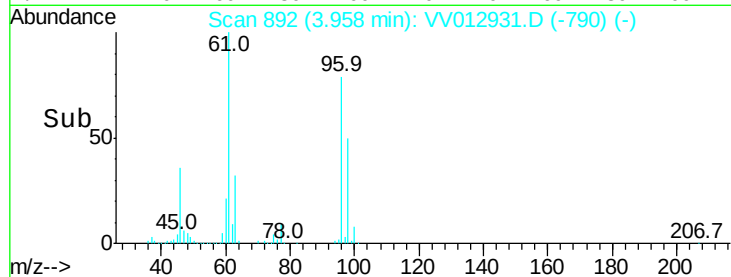
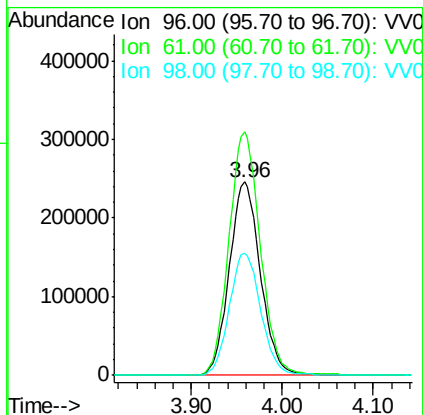
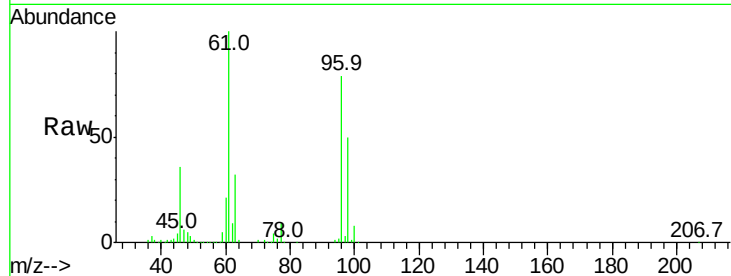


#22

cis-1,2-Dichloroethene
Concen: 53.410 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV012931.D
Acq: 23 Sep 2019 11:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

Tgt Ion: 96 Resp: 583147
Ion Ratio Lower Upper
96 100
61 126.0 90.9 168.7
98 63.5 45.6 84.6



#23

Bromochloromethane
Concen: 55.379 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV012931.D
Acq: 23 Sep 2019 11:27

Tgt Ion: 128 Resp: 284735
Ion Ratio Lower Upper
128 100
49 164.6 114.4 212.6
130 130.2 88.5 164.4
51 51.4 41.4 62.2

