

Data File : VV014643.D
Acq On : 20 Feb 2020 23:15
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

Quant Time: Feb 21 03:38:04 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM021220WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 21 03:31:59 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	264407	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	243485	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	121933	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	48615	47.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.76%
7) Chloroethane-d5	1.58	69	37127	51.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.98%
11) 1,1-Dichloroethene-d2	2.13	63	89757	52.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.94%
21) 2-Butanone-d5	3.93	46	88303	104.87	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.87%
24) Chloroform-d	4.40	84	150568	50.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.70%
26) 1,2-Dichloroethane-d4	5.08	65	100380	54.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.30%
32) Benzene-d6	5.10	84	309563	53.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.32%
36) 1,2-Dichloropropane-d6	6.11	67	90764	51.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.50%
41) Toluene-d8	7.36	98	294261	52.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.06%
43) trans-1,3-Dichloropropene-	7.66	79	49434	51.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.24%
47) 2-Hexanone-d5	8.13	63	74380	106.13	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.13%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	124596	52.34	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.68%
64) 1,2-Dichlorobenzene-d4	11.67	152	113028	52.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.94%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	88521	47.176	ug/L 100
3) Chloromethane	1.25	50	49805	29.881	ug/L 96
5) Vinyl chloride	1.32	62	48930	41.306	ug/L 98
6) Bromomethane	1.54	94	23899	41.464	ug/L 99
8) Chloroethane	1.60	64	26432	44.428	ug/L 97
9) Trichlorofluoromethane	1.77	101	103427	50.542	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	42858	49.129	ug/L 99
12) 1,1-Dichloroethene	2.14	96	39281	48.441	ug/L 92
13) Acetone	2.20	43	53280	73.755	ug/L 97
14) Carbon disulfide	2.32	76	174325	43.916	ug/L 99
15) Methyl Acetate	2.46	43	65633	47.404	ug/L 99
16) Methylene chloride	2.54	84	80842	47.695	ug/L 96
17) trans-1,2-Dichloroethene	2.79	96	75011	46.893	ug/L 96
18) Methyl tert-butyl Ether	2.80	73	251183	48.967	ug/L 99
19) 1,1-Dichloroethane	3.23	63	136076	48.514	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	86887	46.982	ug/L 98
22) 2-Butanone	4.02	43	91611	84.580	ug/L 95

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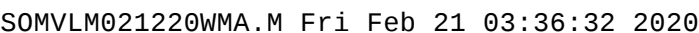
Instrument :
MSVOA_V
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VSTD05071

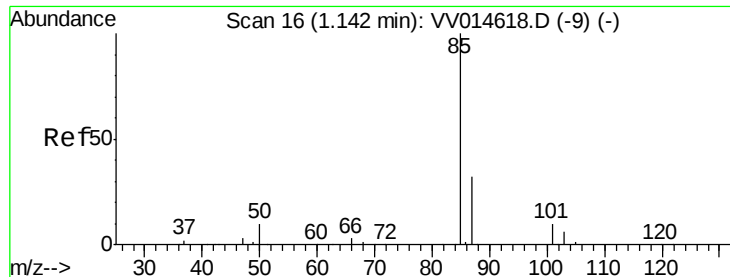
Quant Time: Feb 21 03:38:04 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM021220WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 21 03:31:59 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	43703	48.789	ug/L	98
25) Chloroform	4.42	83	158694	51.135	ug/L	98
27) 1,2-Dichloroethane	5.18	62	117057	51.160	ug/L	99
29) Cyclohexane	4.73	56	112736	46.251	ug/L	100
30) 1,1,1-Trichloroethane	4.66	97	136827	51.656	ug/L	100
31) Carbon tetrachloride	4.87	117	121509	50.803	ug/L	99
33) Benzene	5.14	78	310054	48.501	ug/L	100
34) Trichloroethene	5.95	95	128405	74.433	ug/L	98
35) Methylcyclohexane	6.17	83	126977	47.012	ug/L	98
37) 1,2-Dichloropropane	6.22	63	76778	48.639	ug/L	100
38) Bromodichloromethane	6.55	83	116427	50.299	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	135781	48.725	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	187833	96.331	ug/L	99
42) Toluene	7.43	91	336345	48.248	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	120694	47.957	ug/L	96
45) 1,1,2-Trichloroethane	7.88	97	80972	49.659	ug/L	98
46) Tetrachloroethene	8.02	164	63628	46.905	ug/L	97
48) 2-Hexanone	8.18	43	145683	95.831	ug/L	97
49) Dibromochloromethane	8.29	129	96915	49.870	ug/L	99
50) 1,2-Dibromoethane	8.39	107	88366	50.086	ug/L	99
51) Chlorobenzene	8.92	112	226930	48.691	ug/L	99
52) Ethylbenzene	9.05	91	383871	48.544	ug/L	99
53) m,p-Xylene	9.18	106	147919	47.913	ug/L	99
54) o-xylene	9.58	106	144044	48.814	ug/L	99
55) Styrene	9.60	104	245587	48.435	ug/L	99
56) Isopropylbenzene	9.97	105	385678	49.137	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	126811	49.228	ug/L	100
59) 1,2,3-Trichloropropane	10.31	75	101200	49.817	ug/L	100
61) Bromoform	9.77	173	65198	49.403	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	180833	49.038	ug/L	98
63) 1,4-Dichlorobenzene	11.31	146	182540	48.565	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	176429	48.706	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	30345	51.425	ug/L	91
67) 1,3,5-Trichlorobenzene	12.68	180	130906	49.363	ug/L	98
68) 1,2,4-trichlorobenzene	13.30	180	120921	49.239	ug/L	99
69) Naphthalene	13.54	128	407412	52.318	ug/L	100
70) 1,2,3-Trichlorobenzene	13.78	180	126246	53.326	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 47.176 ug/L

RT: 1.14 min Scan# 16

Delta R.T. -0.00 min

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Acq: 20 Feb 2020 23:15

Instrument :

MSVOA_V

ClientSampleId :

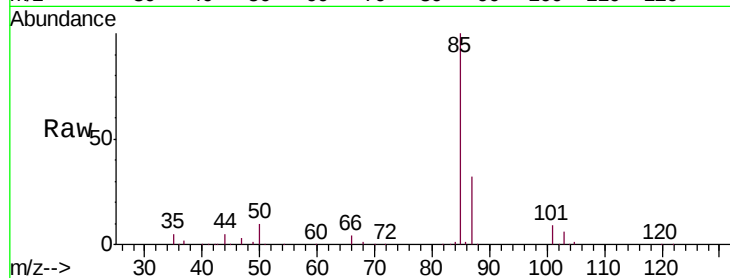
VSTD05071

Tgt Ion: 85 Resp: 88521

Ion Ratio Lower Upper

85 100

87 32.2 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VV014618.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV014618.D (-9) (-)

1.14

100000

80000

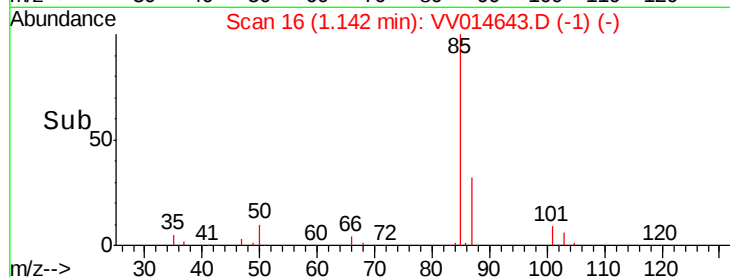
60000

40000

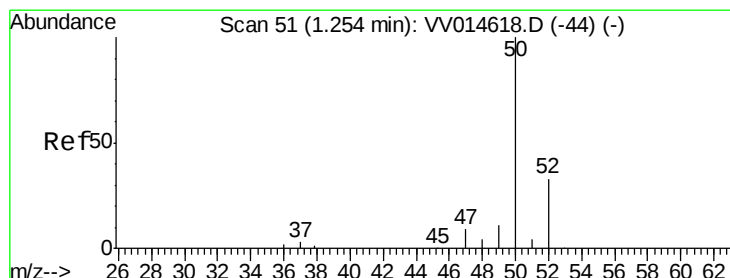
20000

0

Time-->



Time-->



#3

Chloromethane

Concen: 29.881 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV014643.D

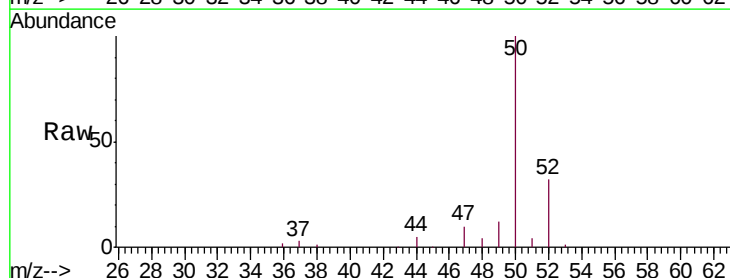
Acq: 20 Feb 2020 23:15

Tgt Ion: 50 Resp: 49805

Ion Ratio Lower Upper

50 100

52 32.4 24.3 45.1



Abundance Ion 50.00 (49.70 to 50.70): VV014618.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV014618.D (-44) (-)

1.25

50000

40000

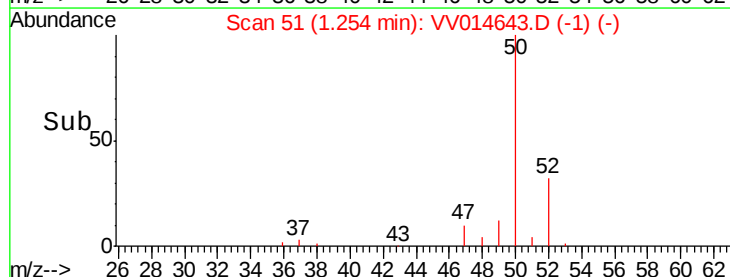
30000

20000

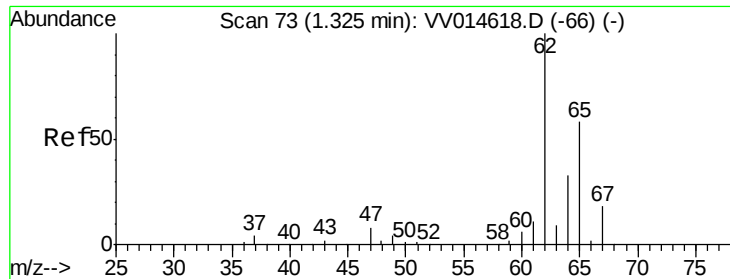
10000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 41.306 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

Instrument :

MSVOA_V

ClientSampled :

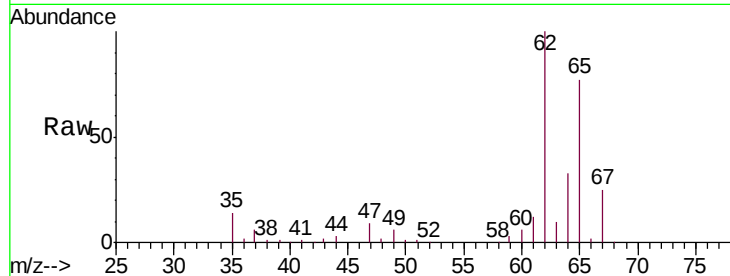
VSTD05071

Tgt Ion: 62 Resp: 48930

Ion Ratio Lower Upper

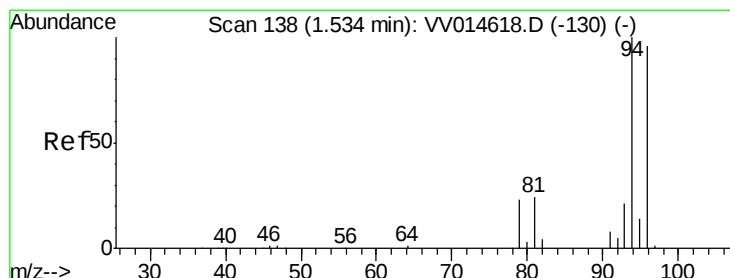
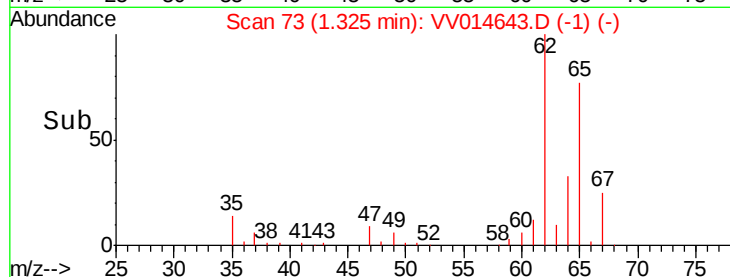
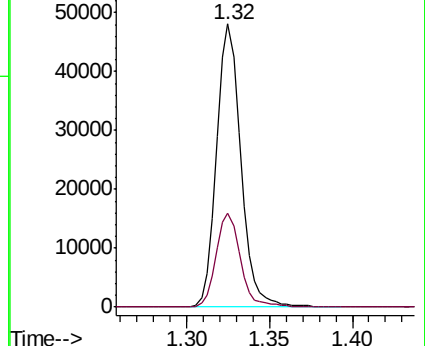
62 100

64 33.3 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 41.464 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014643.D

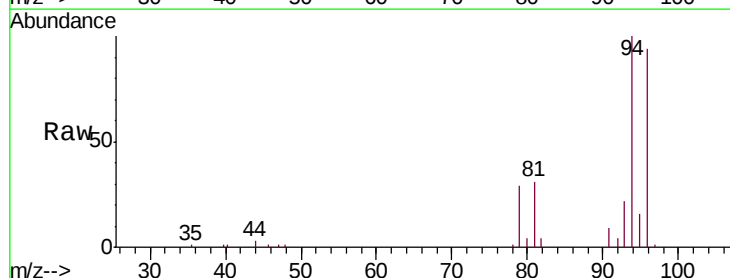
Acq: 20 Feb 2020 23:15

Tgt Ion: 94 Resp: 23899

Ion Ratio Lower Upper

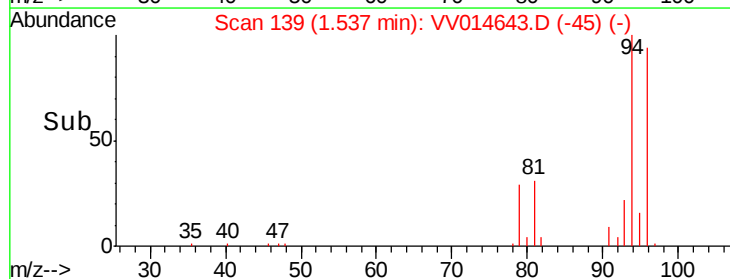
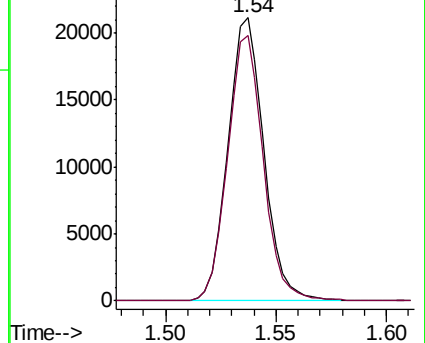
94 100

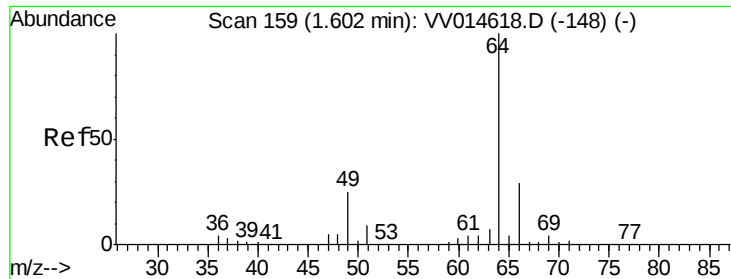
96 93.9 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 44.428 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

Instrument :

MSVOA_V

ClientSampleId :

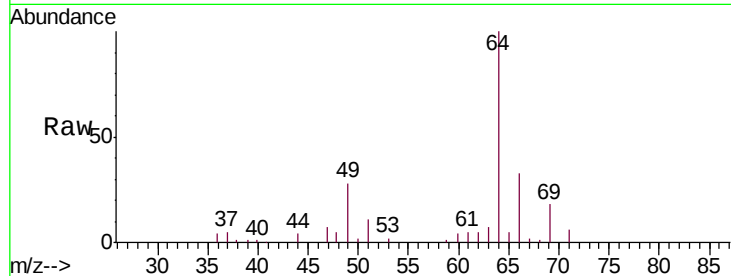
VSTD05071

Tgt Ion: 64 Resp: 26432

Ion Ratio Lower Upper

64 100

66 33.3 22.3 41.5



Abundance Ion 64.00 (63.70 to 64.70): VV014618.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV014618.D (-148) (-)

1.60

25000

20000

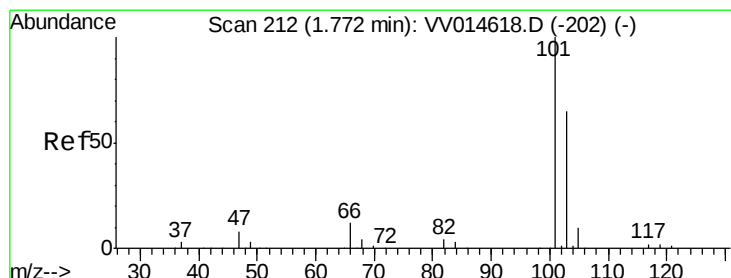
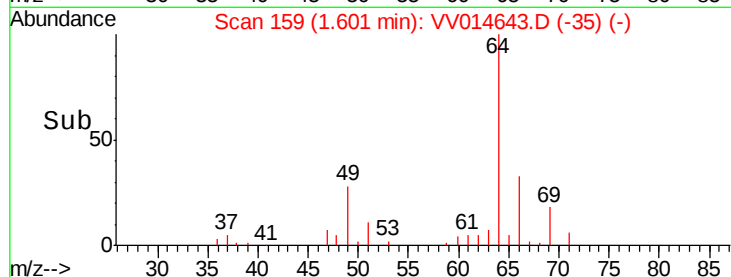
15000

10000

5000

0

Time-->



#9

Trichlorofluoromethane

Concen: 50.542 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV014643.D

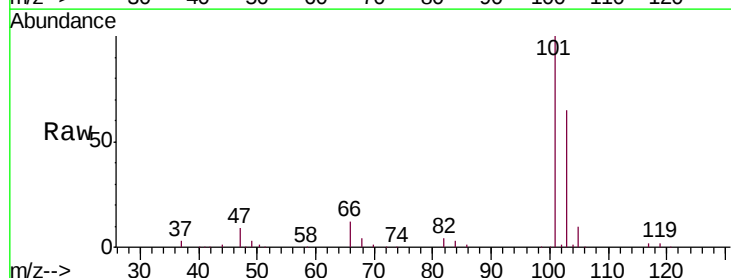
Acq: 20 Feb 2020 23:15

Tgt Ion: 101 Resp: 103427

Ion Ratio Lower Upper

101 100

103 64.3 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VV014618.D (-202) (-)

Ion 103.00 (102.70 to 103.70): VV014618.D (-202) (-)

1.77

80000

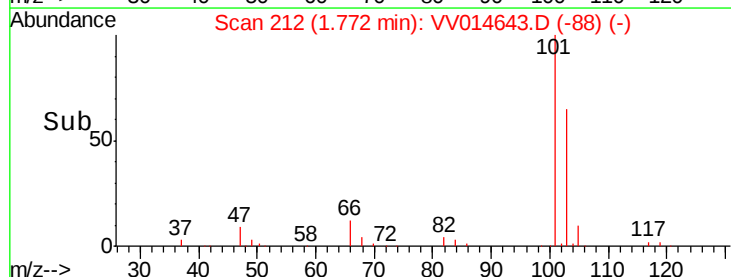
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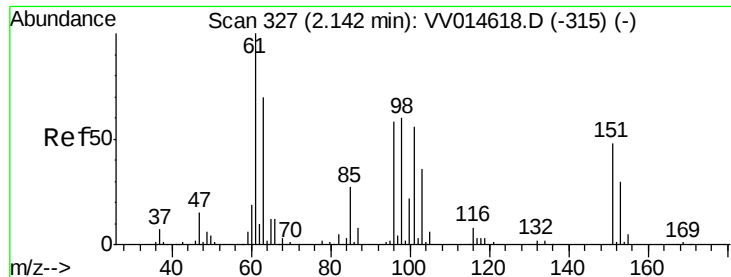
40000

20000

0

Time-->





#10

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

Concen: 49.129 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

Instrument :

MSVOA_V

ClientSampleId :

VSTD05071

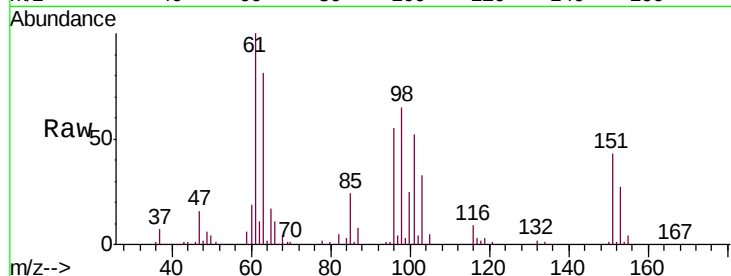
Tgt Ion: 101 Resp: 42858

Ion Ratio Lower Upper

101 100

85 45.8 35.4 53.0

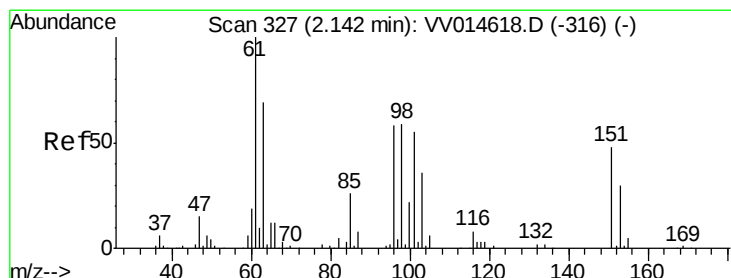
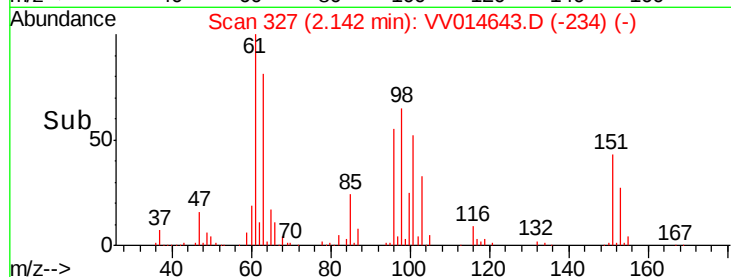
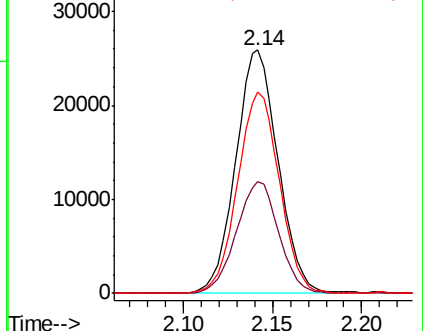
151 81.8 65.4 98.2



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: 48.441 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

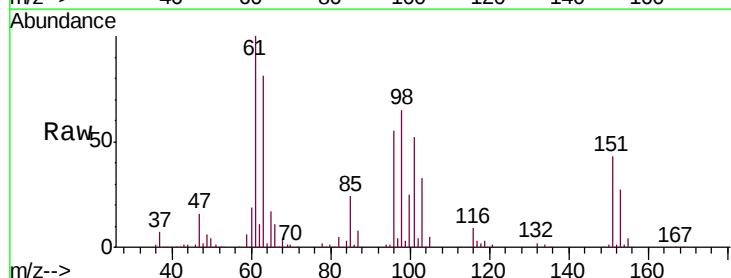
Tgt Ion: 96 Resp: 39281

Ion Ratio Lower Upper

96 100

61 180.2 124.2 230.6

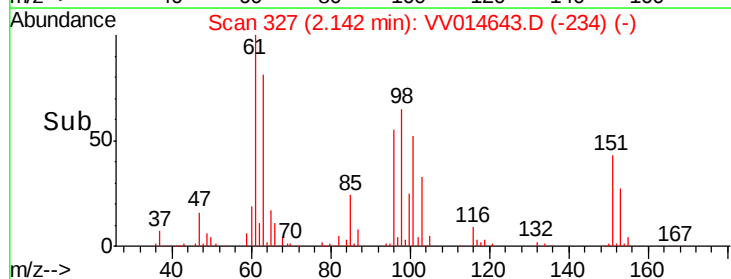
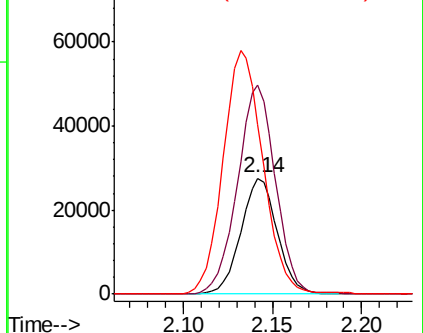
63 145.8 89.2 165.8

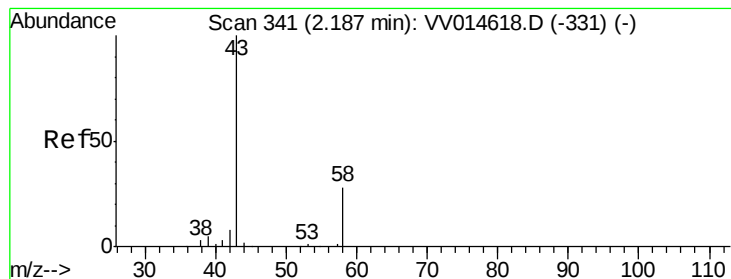


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 73.755 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

Instrument :

MSVOA_V

ClientSampleId :

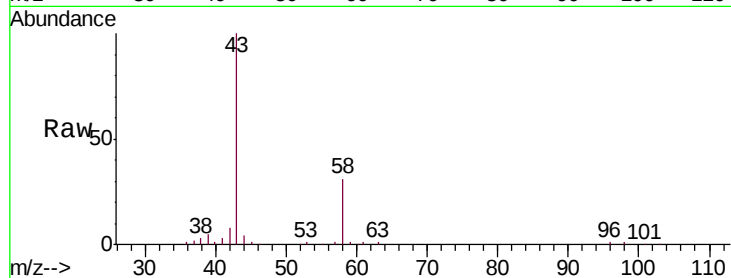
VSTD05071

Tgt Ion: 43 Resp: 53280

Ion Ratio Lower Upper

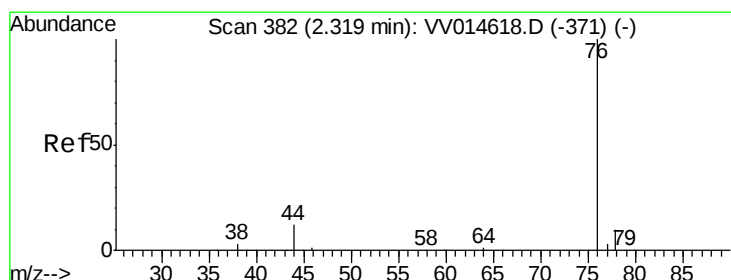
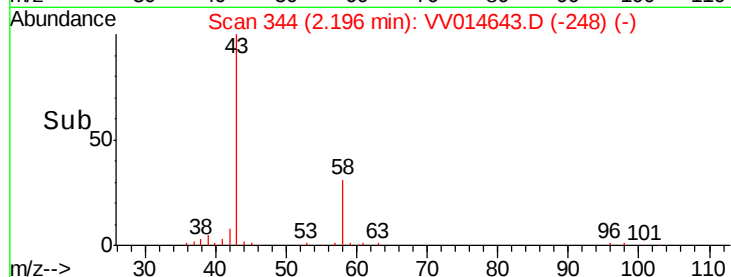
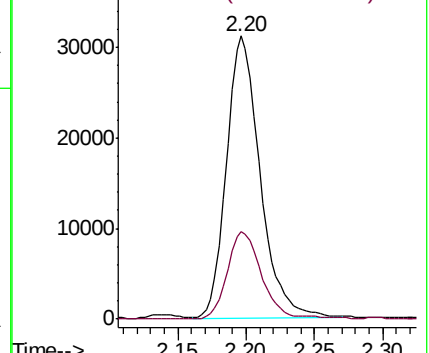
43 100

58 31.2 0.0 58.8



Abundance Ion 43.00 (42.70 to 43.70): VV014618.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV014618.D (-331) (-)



#14

Carbon disulfide

Concen: 43.916 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV014643.D

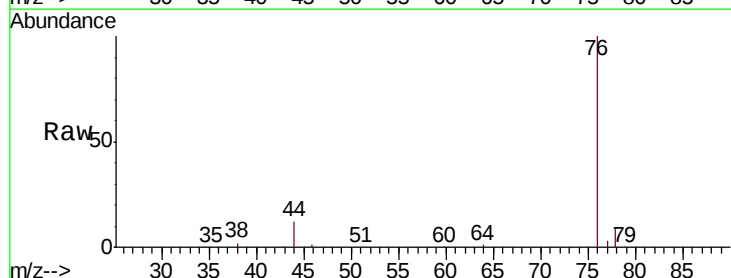
Acq: 20 Feb 2020 23:15

Tgt Ion: 76 Resp: 174325

Ion Ratio Lower Upper

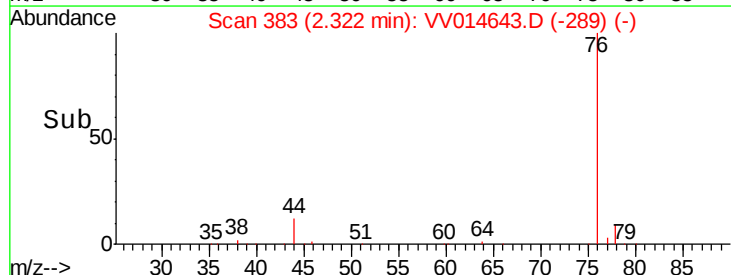
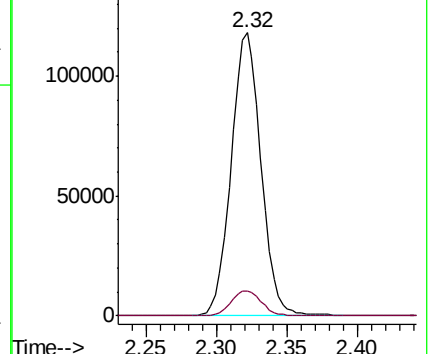
76 100

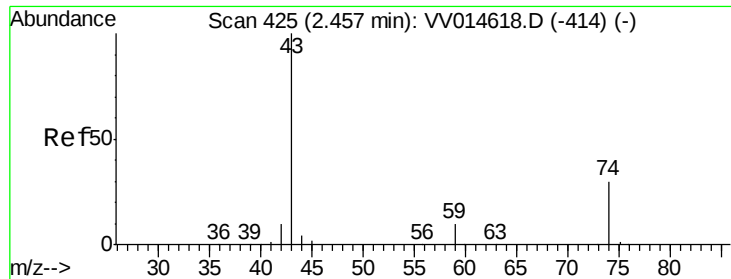
78 9.0 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV014618.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV014618.D (-371) (-)

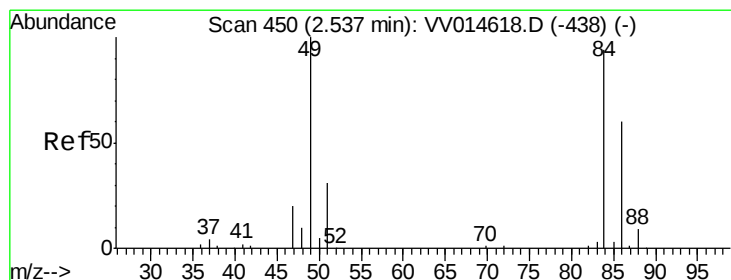
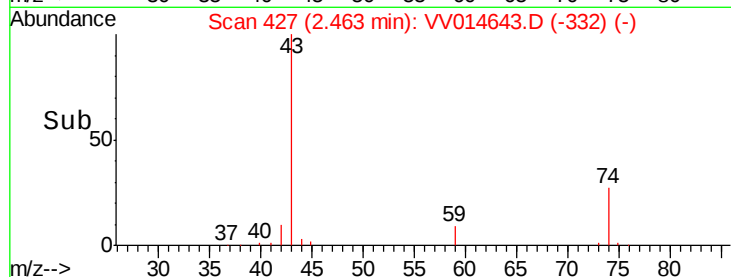
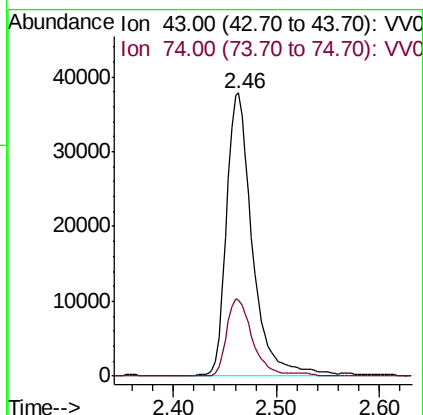
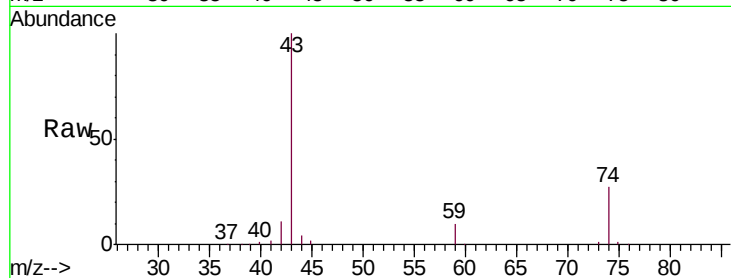




#15
Methyl Acetate
Concen: 47.404 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.01 min
Lab File: VV014643.D
Acq: 20 Feb 2020 23:15

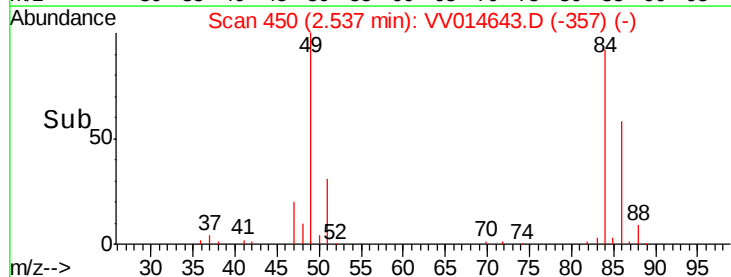
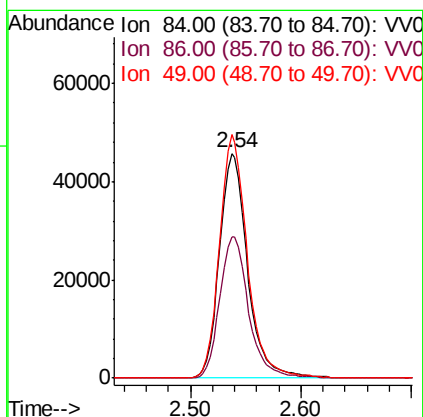
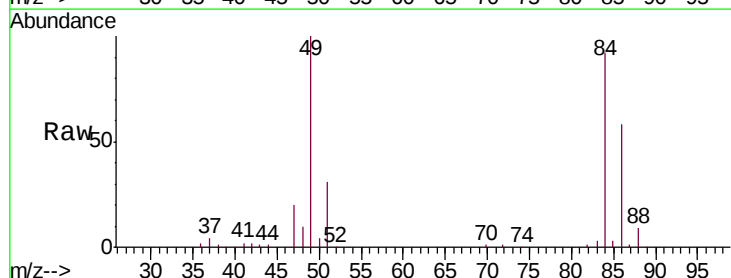
Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

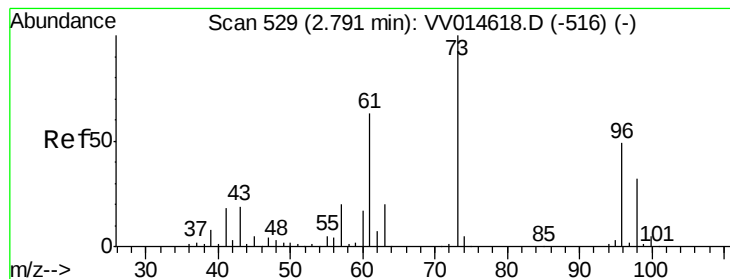
Tgt Ion: 43 Resp: 65633
Ion Ratio Lower Upper
43 100
74 27.2 21.4 32.2



#16
Methylene chloride
Concen: 47.695 ug/L
RT: 2.54 min Scan# 450
Delta R.T. -0.00 min
Lab File: VV014643.D
Acq: 20 Feb 2020 23:15

Tgt Ion: 84 Resp: 80842
Ion Ratio Lower Upper
84 100
86 62.9 46.3 86.1
49 108.3 78.1 145.1





#17

trans-1,2-Dichloroethene

Concen: 46.893 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

Instrument :

MSVOA_V

ClientSampleId :

VSTD05071

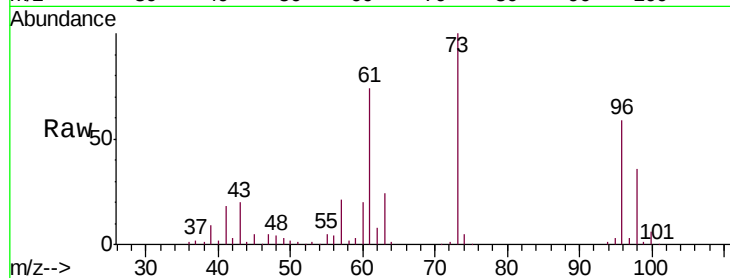
Tgt Ion: 96 Resp: 75011

Ion Ratio Lower Upper

96 100

61 126.8 93.0 172.6

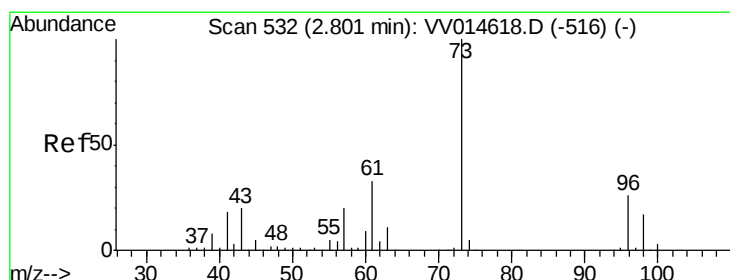
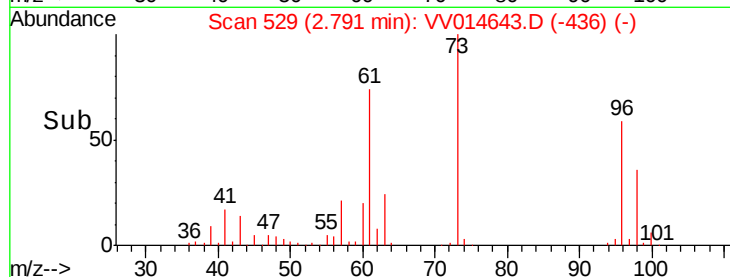
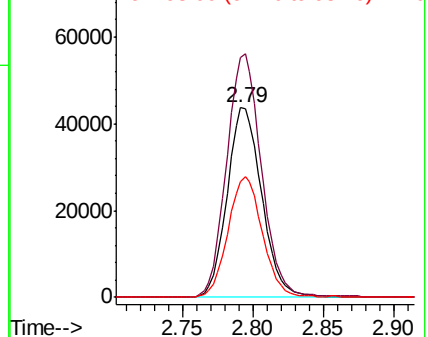
98 61.2 44.2 82.0



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



#18

Methyl tert-butyl Ether

Concen: 48.967 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

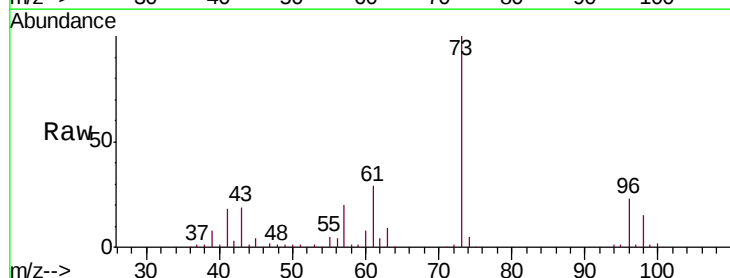
Tgt Ion: 73 Resp: 251183

Ion Ratio Lower Upper

73 100

43 19.3 15.1 22.7

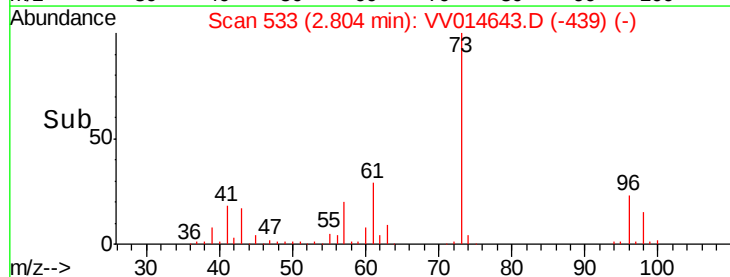
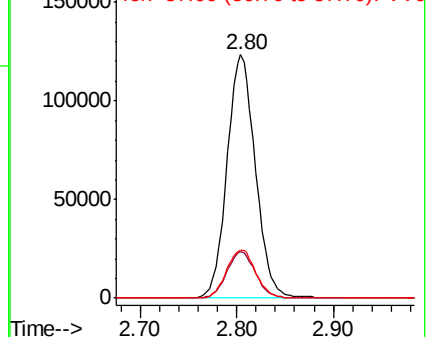
57 20.5 16.2 24.4

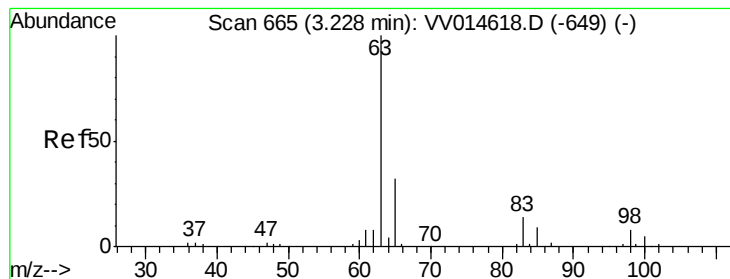


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 48.514 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

Instrument :

MSVOA_V

ClientSampleId :

VSTD05071

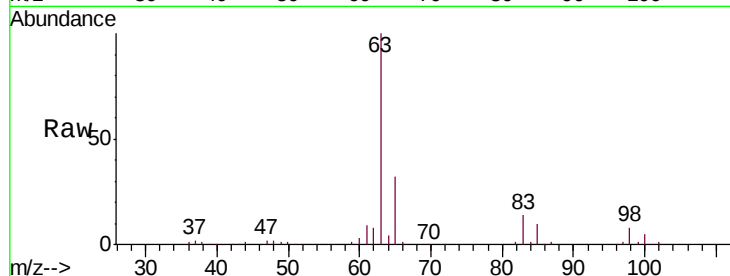
Tgt Ion: 63 Resp: 136076

Ion Ratio Lower Upper

63 100

65 32.1 22.2 41.2

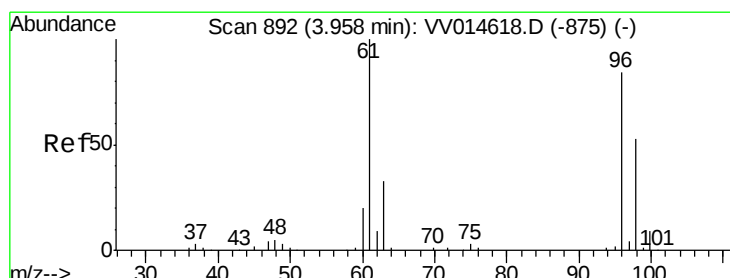
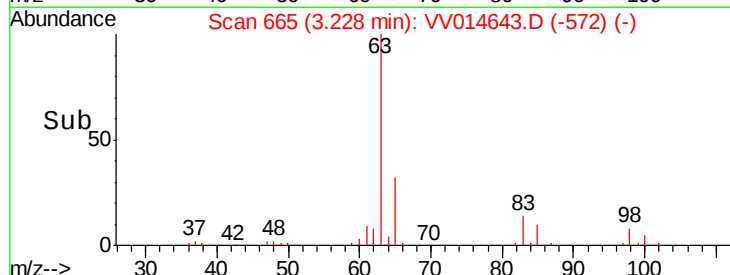
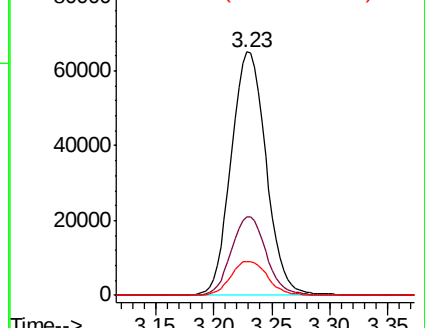
83 14.0 10.4 19.2



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



#20

cis-1,2-Dichloroethene

Concen: 46.982 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

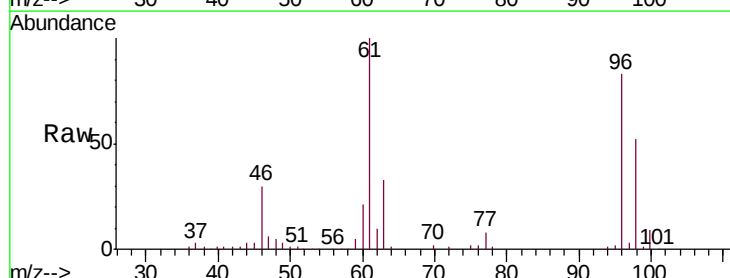
Tgt Ion: 96 Resp: 86887

Ion Ratio Lower Upper

96 100

61 120.3 85.9 159.5

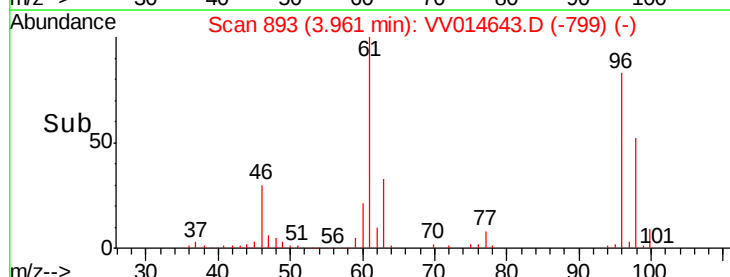
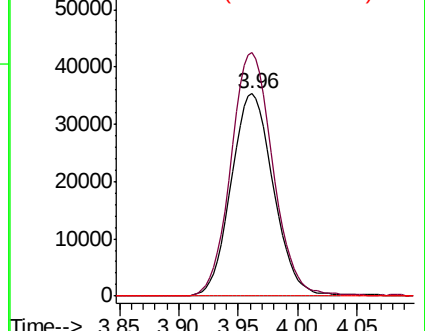
68 0.0 0.0 0.0

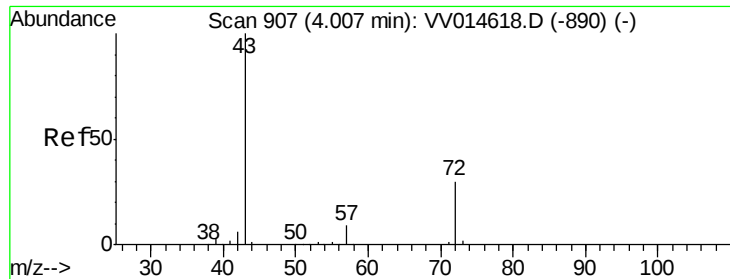


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 84.580 ug/L

RT: 4.02 min Scan# 910

Delta R.T. 0.01 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

Instrument :

MSVOA_V

ClientSampleId :

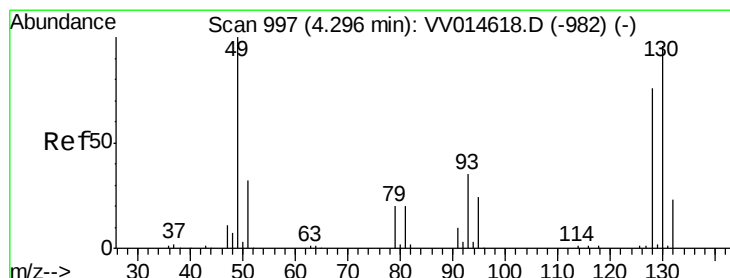
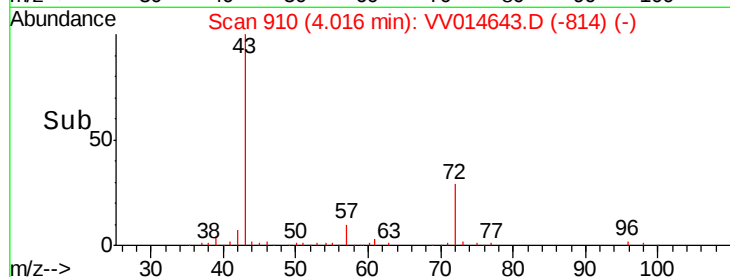
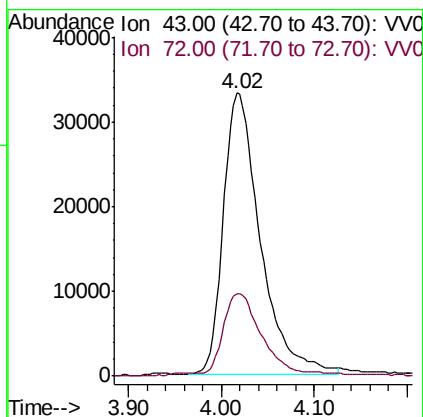
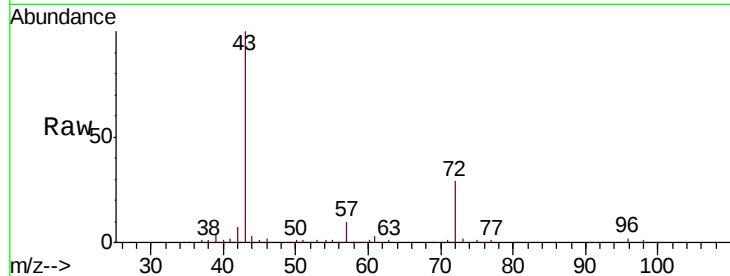
VSTD05071

Tgt Ion: 43 Resp: 91611

Ion Ratio Lower Upper

43 100

72 29.0 15.9 47.7



#23

Bromochloromethane

Concen: 48.789 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV014643.D

Acq: 20 Feb 2020 23:15

Tgt Ion: 128 Resp: 43703

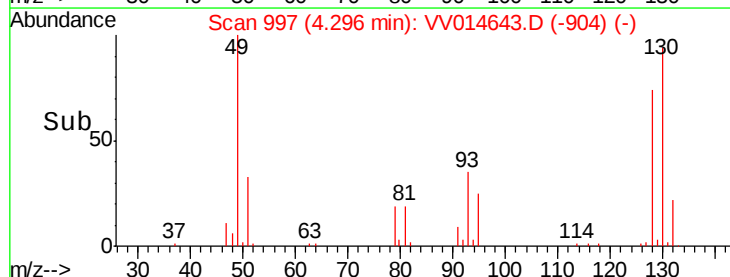
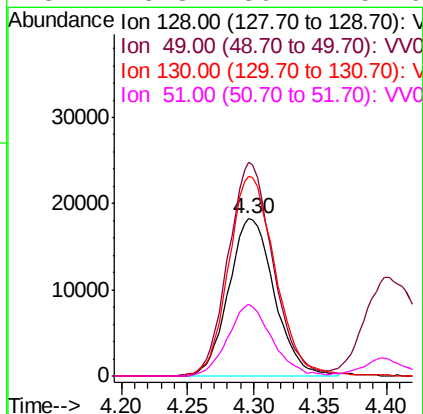
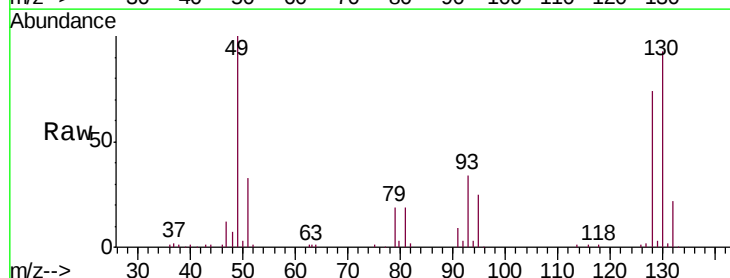
Ion Ratio Lower Upper

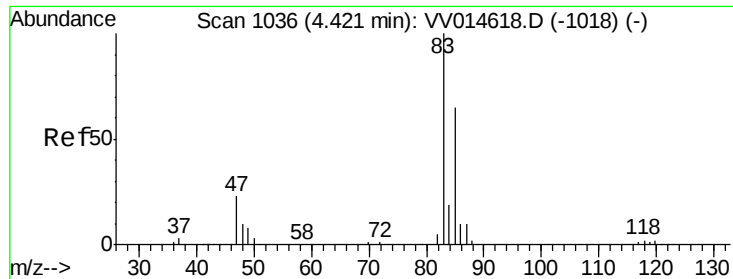
128 100

49 135.9 97.1 180.3

130 126.7 90.7 168.5

51 45.3 36.4 54.6

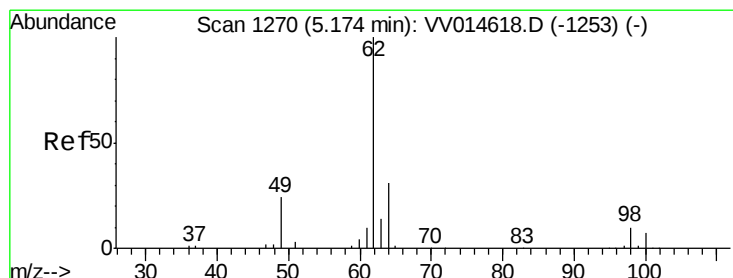
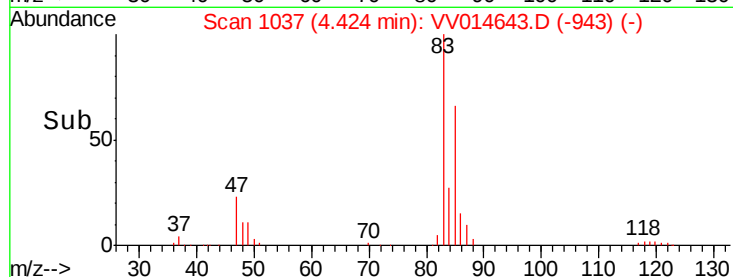
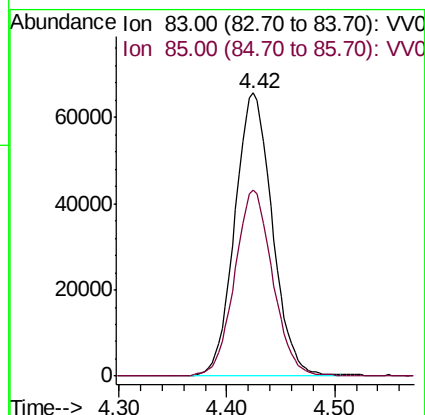
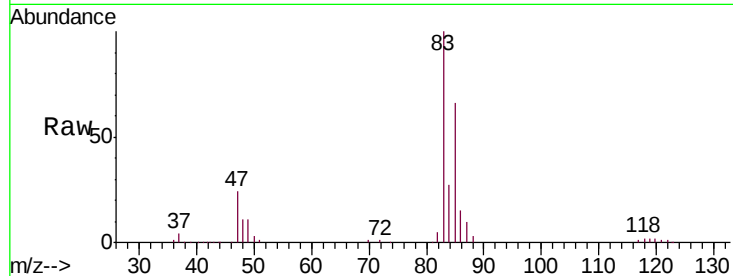




#25
Chloroform
Concen: 51.135 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV014643.D
Acq: 20 Feb 2020 23:15

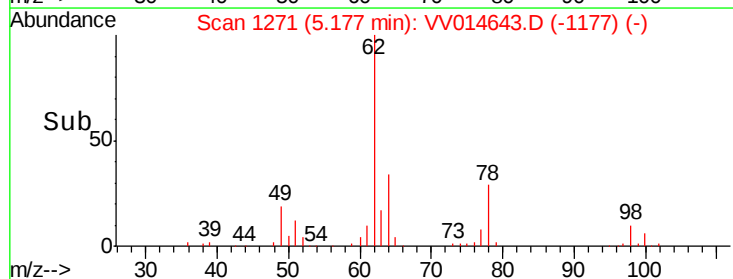
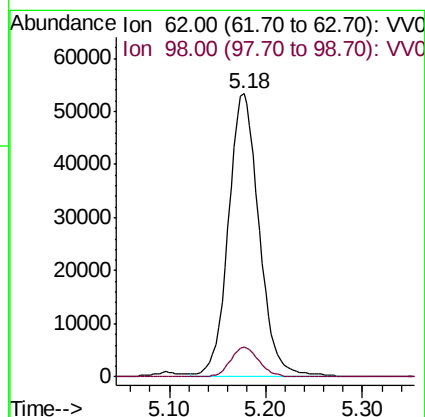
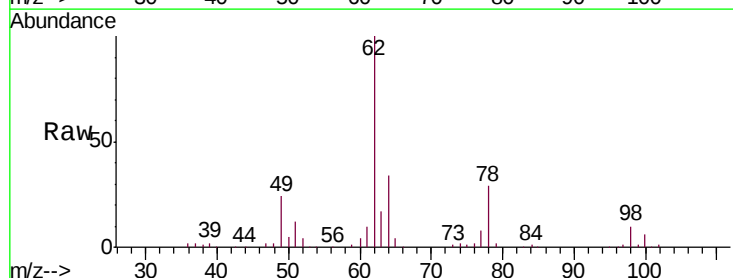
Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

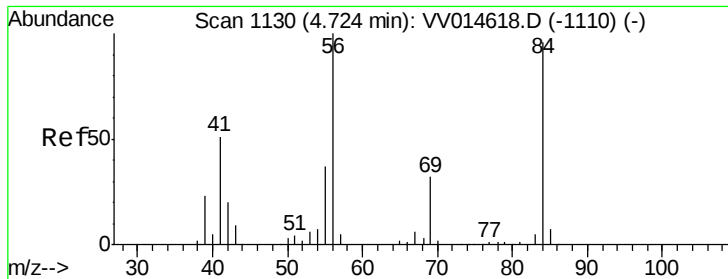
Tgt Ion: 83 Resp: 158694
Ion Ratio Lower Upper
83 100
85 65.9 45.0 83.6



#27
1,2-Dichloroethane
Concen: 51.160 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV014643.D
Acq: 20 Feb 2020 23:15

Tgt Ion: 62 Resp: 117057
Ion Ratio Lower Upper
62 100
98 10.4 7.9 11.9

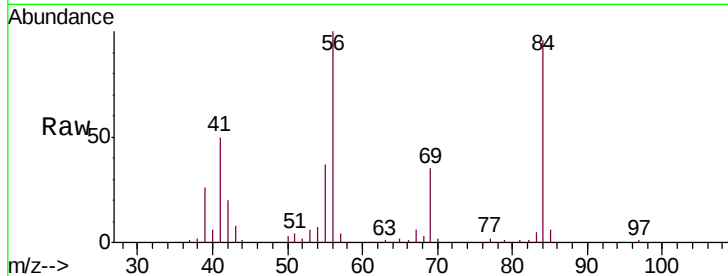




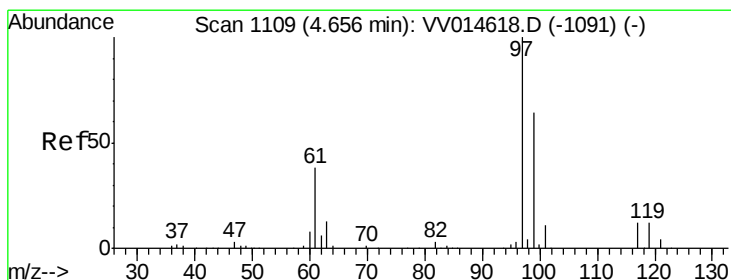
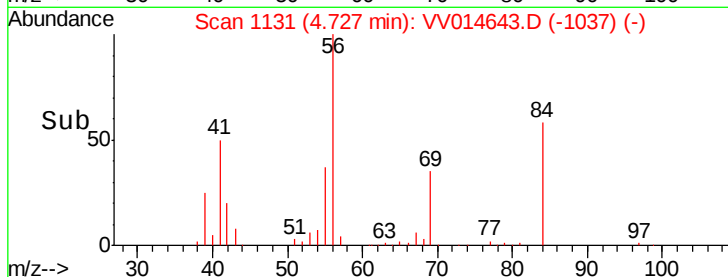
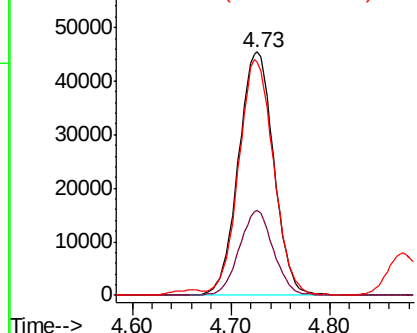
#29
Cyclohexane
Concen: 46.251 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VV014643.D
Acq: 20 Feb 2020 23:15

Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

Tgt Ion: 56 Resp: 112736
Ion Ratio Lower Upper
56 100
69 33.6 26.5 39.7
84 95.0 75.8 113.8

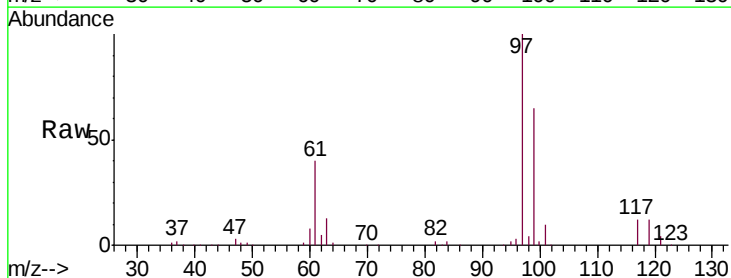


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30
1,1,1-Trichloroethane
Concen: 51.656 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VV014643.D
Acq: 20 Feb 2020 23:15

Tgt Ion: 97 Resp: 136827
Ion Ratio Lower Upper
97 100
99 63.9 51.2 76.8
61 40.8 32.4 48.6



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0

