

Data File : VV015936.D
Acq On : 07 May 2020 11:42
Operator : SY/MD
Sample : VSTD02035
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02035

Quant Time: May 08 04:42:03 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 08 04:37:53 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	159782	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	158897	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	83620	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	175227	18.28	ug/L	0.00
7) Chloroethane-d5	1.58	69	160626	18.55	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	371942	19.01	ug/L	0.00
20) 2-Butanone-d5	3.94	46	568864	223.83	ug/L	0.00
24) Chloroform-d	4.37	84	400295	20.85	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.06	65	221149	19.94	ug/L	0.00
32) Benzene-d6	5.07	84	771406	19.56	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.09	67	237590	19.66	ug/L	0.00
41) Toluene-d8	7.34	98	746499	20.22	ug/L	0.00
45) trans-1,3-Dichloropropene-	7.64	79	102836	21.82	ug/L	0.00
48) 2-Hexanone-d5	8.11	63	479729	229.61	ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	10.24	84	176054	20.28	ug/L	0.00
65) 1,2-Dichlorobenzene-d4	11.65	152	270376	19.50	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	250331	19.672 ug/L	99
3) Chloromethane	1.25	50	245346	19.301 ug/L	100
5) Vinyl chloride	1.32	62	240464	19.808 ug/L	100
6) Bromomethane	1.53	94	140110	20.712 ug/L	99
8) Chloroethane	1.59	64	148748	19.933 ug/L	98
9) Trichlorofluoromethane	1.76	101	332008	20.207 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	184817	19.818 ug/L	99
12) 1,1-Dichloroethene	2.13	96	175623	19.515 ug/L	86
13) Acetone	2.23	43	343704	219.013 ug/L	69
14) Carbon disulfide	2.31	76	612349	20.986 ug/L	98
15) Methyl Acetate	2.46	43	84549	23.106 ug/L	96
16) Methylene chloride	2.52	84	196900	15.754 ug/L	98
17) Methyl tert-butyl Ether	2.79	73	486252	20.651 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	202847	20.224 ug/L	98
19) 1,1-Dichloroethane	3.21	63	386124	20.169 ug/L	99
21) 2-Butanone	4.02	43	587225	226.638 ug/L	97
22) cis-1,2-Dichloroethene	3.94	96	214353	20.488 ug/L	99
23) Bromochloromethane	4.27	128	89958	20.465 ug/L	96
25) Chloroform	4.40	83	406121	19.421 ug/L	99
27) 1,2-Dichloroethane	5.15	62	260919	20.373 ug/L	100
29) 1,1,1-Trichloroethane	4.63	97	359418	19.947 ug/L	99
30) Cyclohexane	4.70	56	372496	20.258 ug/L	98
31) Carbon tetrachloride	4.85	117	312156	20.157 ug/L	98
33) Benzene	5.12	78	833932	20.188 ug/L	100
34) Trichloroethene	5.94	95	226847	20.084 ug/L	98
35) Methylcyclohexane	6.15	83	376164	20.511 ug/L	100
37) 1,2-Dichloropropane	6.20	63	209162	20.386 ug/L	100
38) Bromodichloromethane	6.53	83	272568	20.914 ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	326001	22.357 ug/L	98
40) 4-Methyl-2-pentanone	7.25	43	1398303	213.428 ug/L	98

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Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	905012	20.529	ug/L	99
43) 1,3,5-Trimethylbenzene	10.56	105	909885	22.297	ug/L #	100
44) 1,2,4-Trimethylbenzene	10.94	105	919162	22.244	ug/L #	100
46) trans-1,3-Dichloropropene	7.67	75	280456	22.754	ug/L	97
47) 1,1,2-Trichloroethane	7.86	97	139907	20.273	ug/L	97
49) Tetrachloroethene	8.00	164	164328	19.631	ug/L	99
50) 2-Hexanone	8.16	43	1021546	221.724	ug/L	99
51) Dibromochloromethane	8.27	129	172268	22.683	ug/L	97
52) 1,2-Dibromoethane	8.37	107	134517	20.376	ug/L	95
53) Chlorobenzene	8.90	112	565765	20.140	ug/L	98
54) Ethylbenzene	9.03	91	1048728	20.981	ug/L	99
55) m,p-xylene	9.16	106	395374	21.086	ug/L	98
56) o-xylene	9.57	106	377712	21.286	ug/L	96
57) Styrene	9.58	104	657353	22.024	ug/L	99
58) Isopropylbenzene	9.95	105	1049062	21.399	ug/L	99
60) 1,1,2,2-Tetrachloroethane	10.26	83	161366	20.437	ug/L	98
62) Bromoform	9.75	173	86202	23.905	ug/L	98
63) 1,3-Dichlorobenzene	11.20	146	465013	19.767	ug/L	99
64) 1,4-Dichlorobenzene	11.30	146	467002	20.118	ug/L	99
66) 1,2-Dichlorobenzene	11.67	146	423133	19.914	ug/L	98
67) 1,2-Dibromo-3-chloropropan	12.45	75	29892	20.388	ug/L	94
68) 1,3,5-Trichlorobenzene	12.67	180	348770	20.058	ug/L	100
69) 1,2,4-trichlorobenzene	13.29	180	307364	21.012	ug/L	99
70) Naphthalene	13.52	128	545960	22.414	ug/L	99
71) 1,2,3-Trichlorobenzene	13.77	180	270557	20.659	ug/L	100

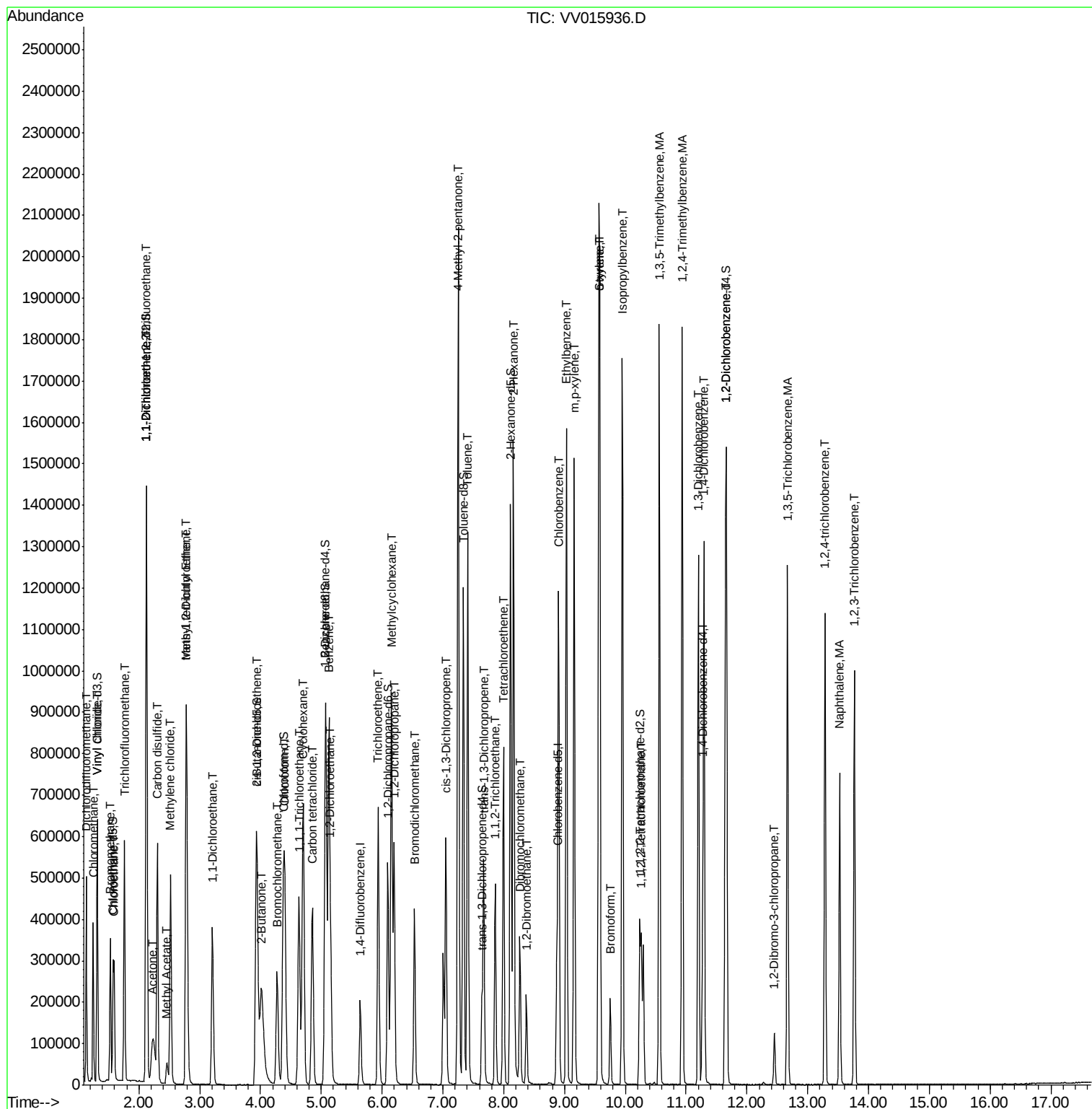
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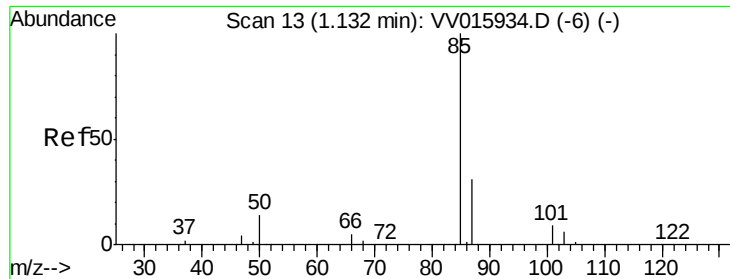
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#2

Dichlorodifluoromethane

Concen: 19.672 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV015936.D

Acq: 07 May 2020 11:42

Instrument :

MSVOA_V

ClientSampleId :

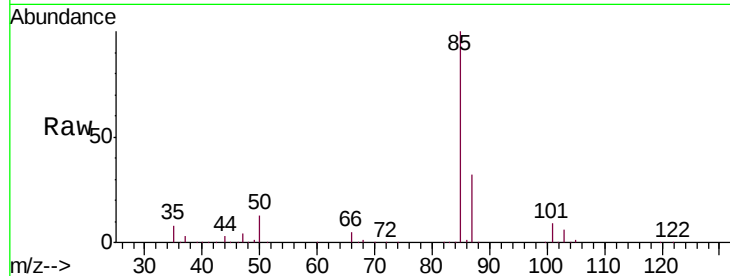
VSTD02035

Tgt Ion: 85 Resp: 250331

Ion Ratio Lower Upper

85 100

87 32.3 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VV015936.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV015936.D (-6) (-)

1.14

250000

200000

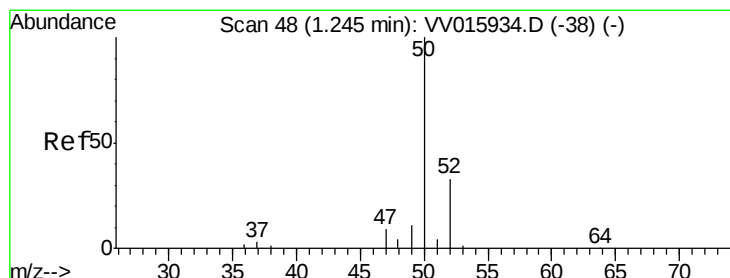
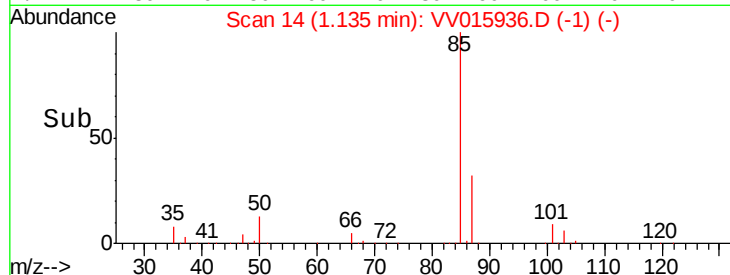
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 19.301 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV015936.D

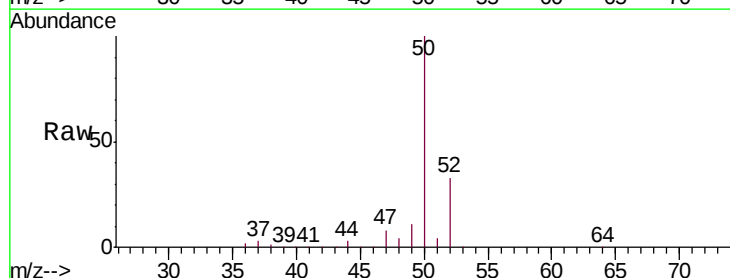
Acq: 07 May 2020 11:42

Tgt Ion: 50 Resp: 245346

Ion Ratio Lower Upper

50 100

52 32.6 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VV015936.D (-38) (-)

Ion 52.05 (51.75 to 52.75): VV015936.D (-38) (-)

1.25

250000

200000

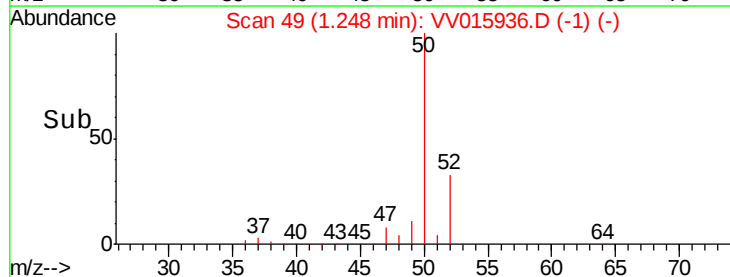
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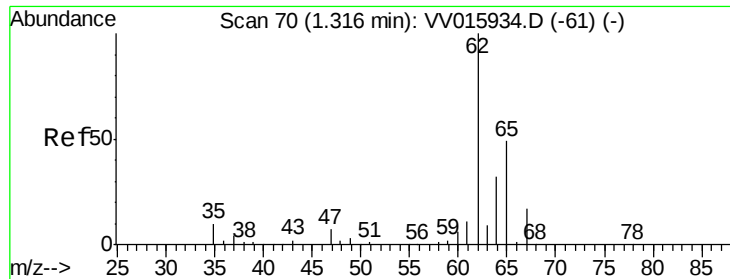
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 19.808 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV015936.D

Acq: 07 May 2020 11:42

Instrument :

MSVOA_V

ClientSampleId :

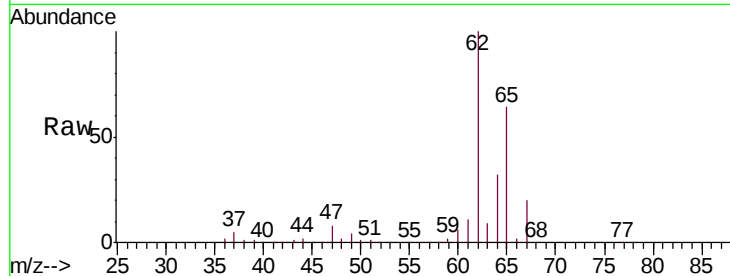
VSTD02035

Tgt Ion: 62 Resp: 240464

Ion Ratio Lower Upper

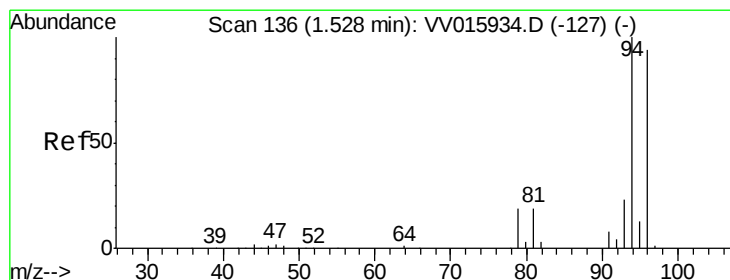
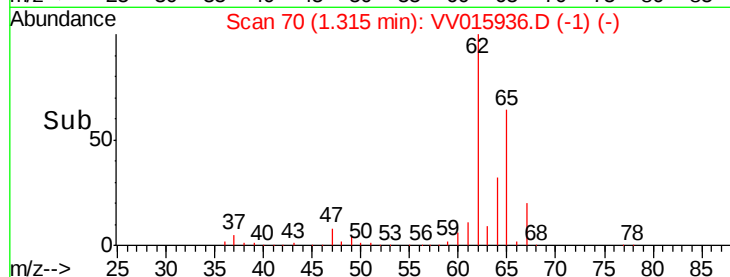
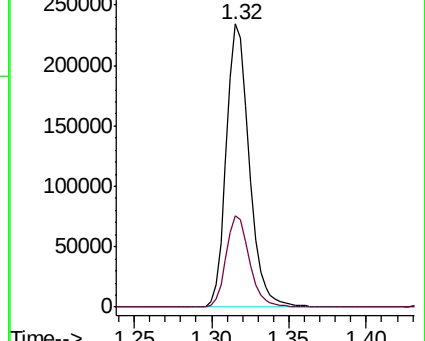
62 100

64 32.2 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 20.712 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV015936.D

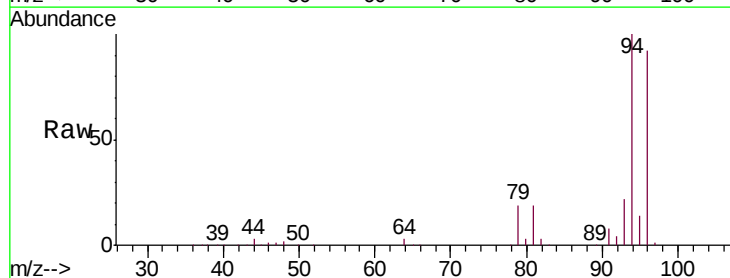
Acq: 07 May 2020 11:42

Tgt Ion: 94 Resp: 140110

Ion Ratio Lower Upper

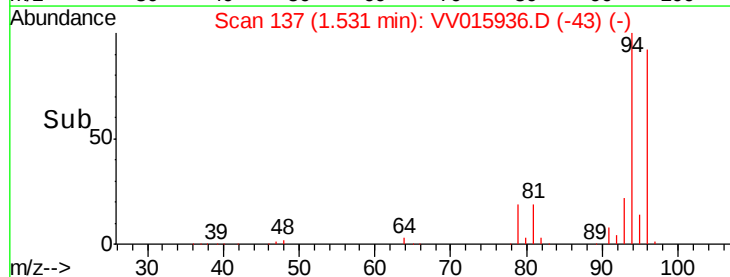
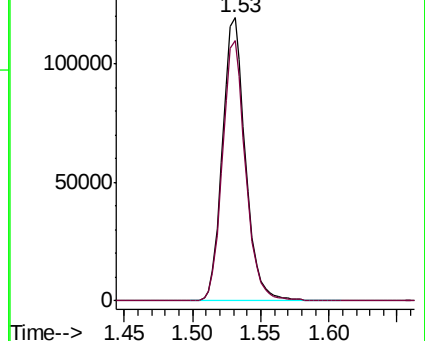
94 100

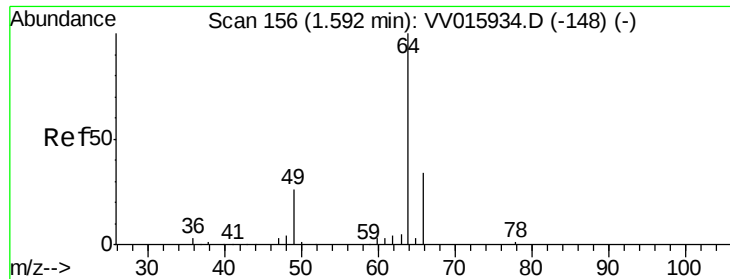
96 92.2 65.4 121.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 19.933 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV015936.D

Acq: 07 May 2020 11:42

Instrument :

MSVOA_V

ClientSampleId :

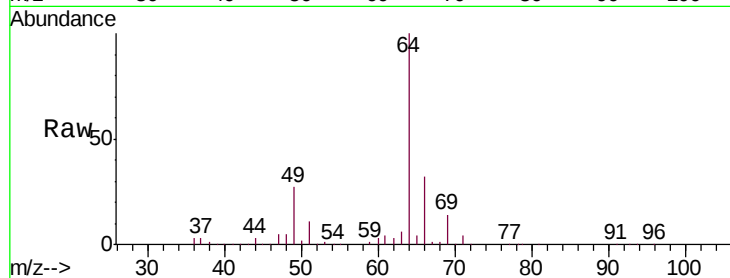
VSTD02035

Tgt Ion: 64 Resp: 148748

Ion Ratio Lower Upper

64 100

66 32.3 23.6 43.8



Abundance Ion 64.10 (63.80 to 64.80): VV015936.D (-148) (-)

Ion 66.05 (65.75 to 66.75): VV015936.D (-148) (-)

1.59

150000

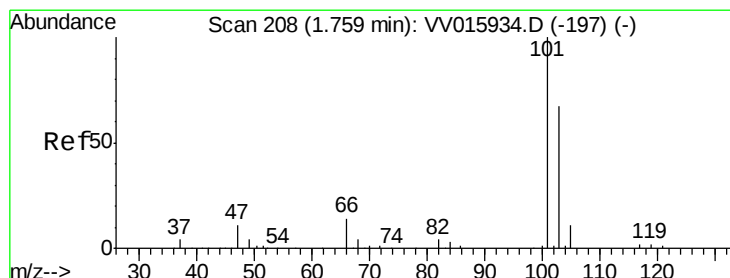
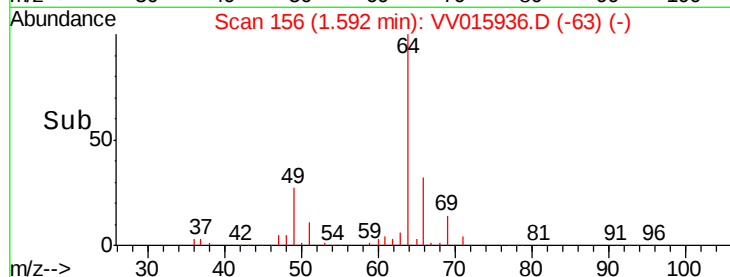
100000

50000

0

Time-->

1.50 1.55 1.60 1.65 1.70



#9

Trichlorofluoromethane

Concen: 20.207 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV015936.D

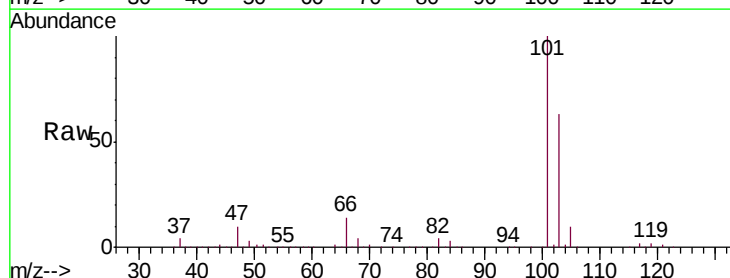
Acq: 07 May 2020 11:42

Tgt Ion: 101 Resp: 332008

Ion Ratio Lower Upper

101 100

103 63.8 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VV015936.D (-197) (-)

Ion 103.00 (102.70 to 103.70): VV015936.D (-197) (-)

1.76

300000

250000

200000

150000

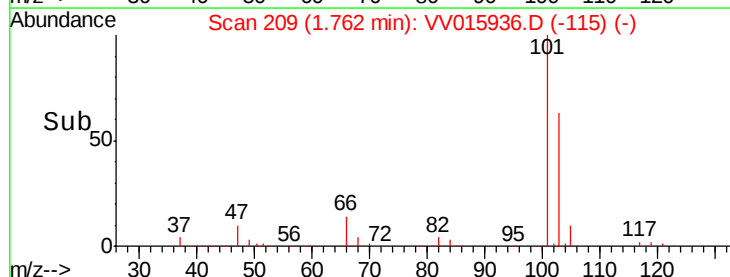
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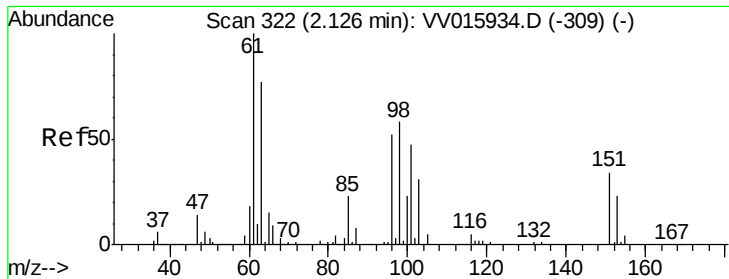
50000

0

Time-->

1.70 1.75 1.80 1.85





#10

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

Concen: 19.818 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015936.D

Acq: 07 May 2020 11:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD02035

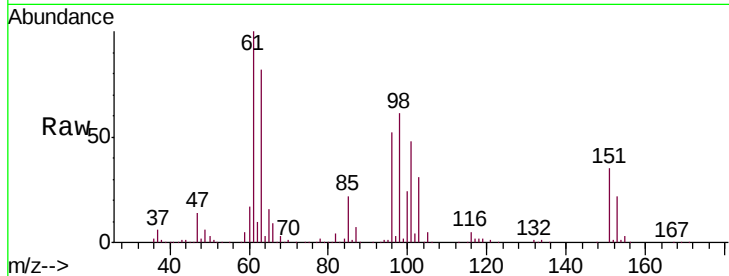
Tgt Ion: 101 Resp: 184817

Ion Ratio Lower Upper

101 100

85 45.3 35.7 53.5

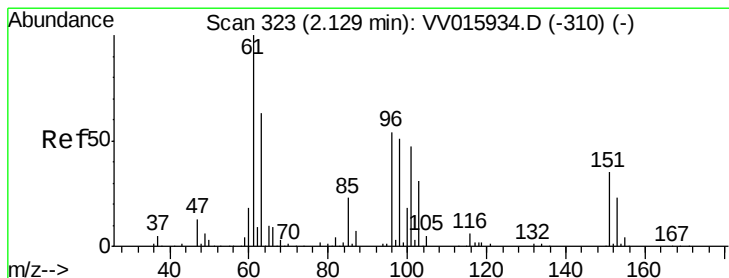
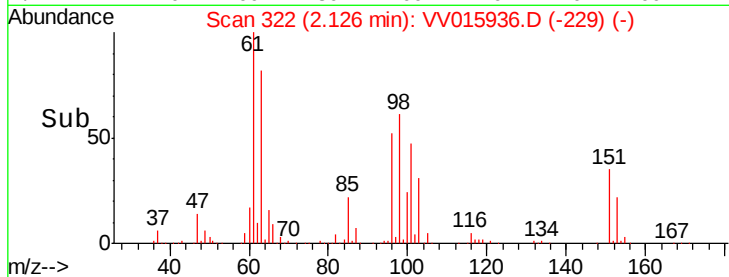
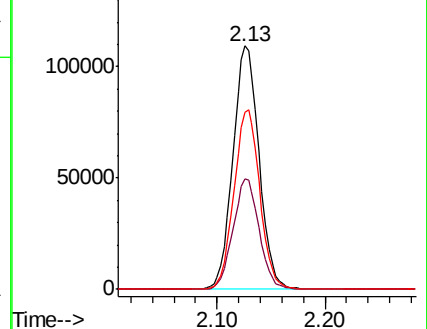
151 73.0 58.0 87.0



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: 19.515 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV015936.D

Acq: 07 May 2020 11:42

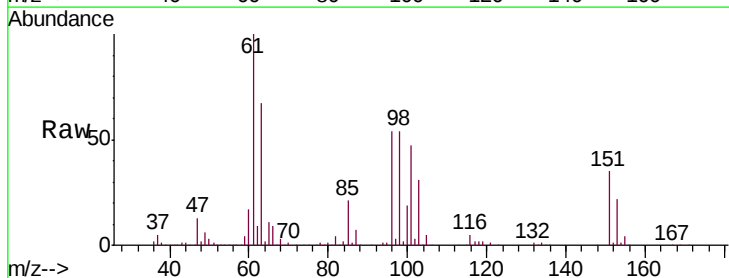
Tgt Ion: 96 Resp: 175623

Ion Ratio Lower Upper

96 100

61 186.5 139.9 259.7

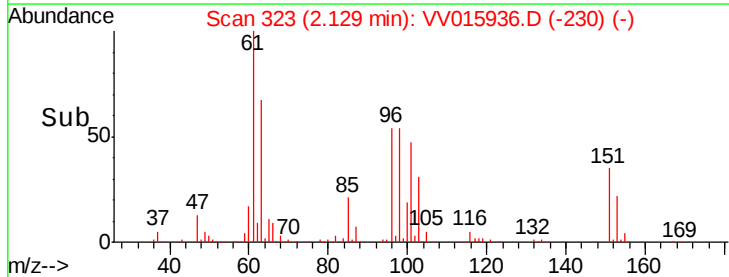
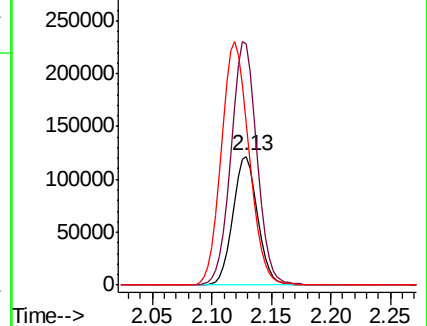
63 125.7 106.4 197.6

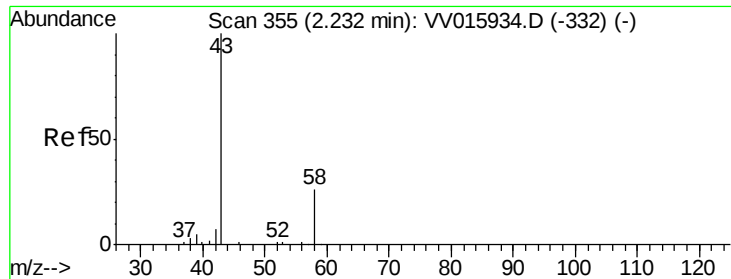


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

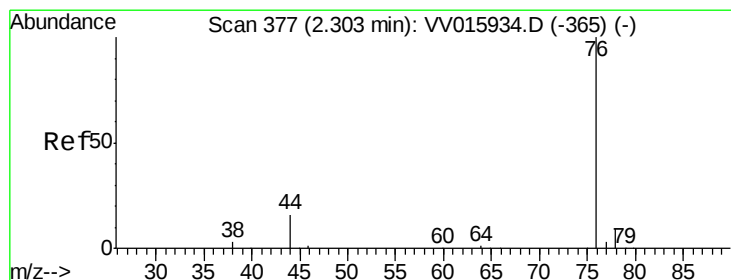
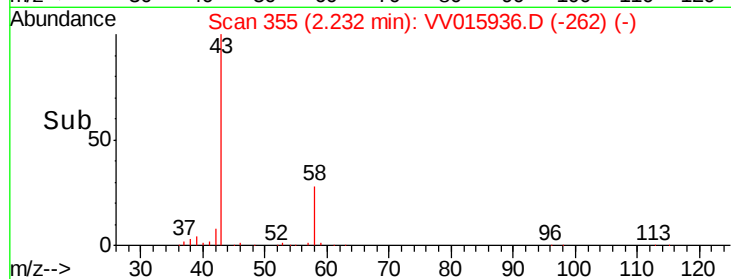
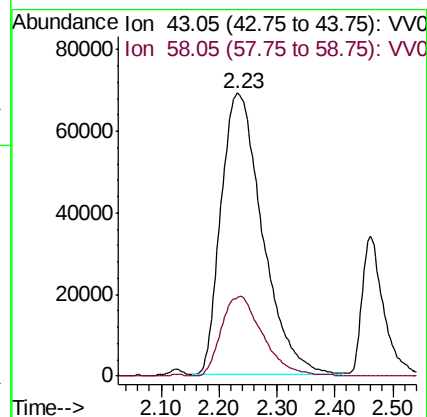
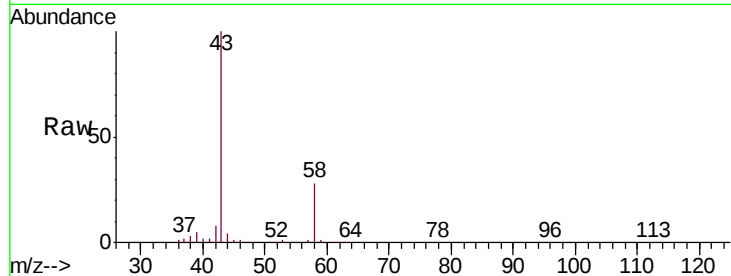




#13
Acetone
Concen: 219.013 ug/L
RT: 2.23 min Scan# 355
Delta R.T. -0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

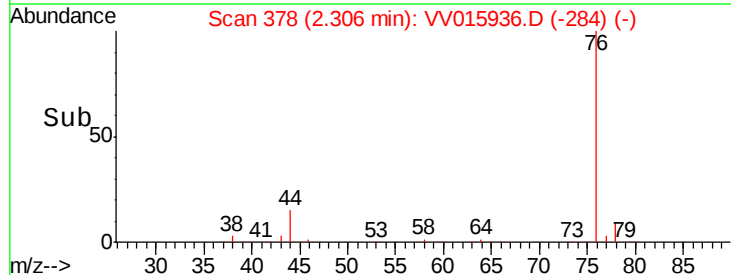
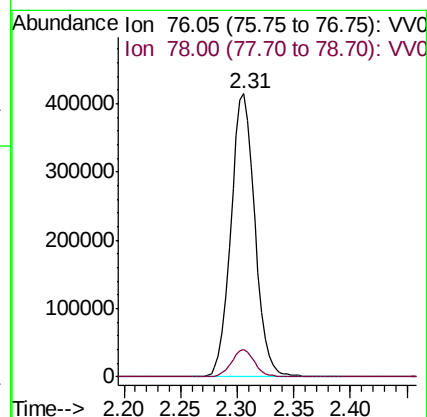
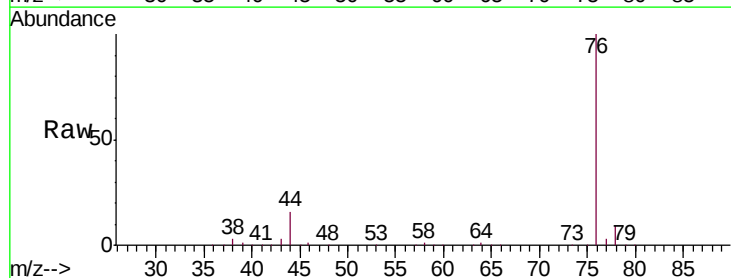
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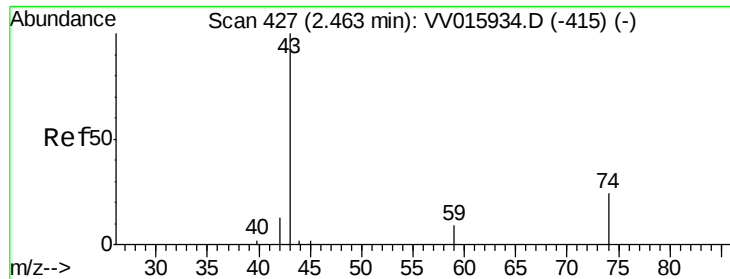
Tgt Ion: 43 Resp: 343704
Ion Ratio Lower Upper
43 100
58 28.5 0.0 30.8



#14
Carbon disulfide
Concen: 20.986 ug/L
RT: 2.31 min Scan# 378
Delta R.T. 0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

Tgt Ion: 76 Resp: 612349
Ion Ratio Lower Upper
76 100
78 9.5 7.0 10.6

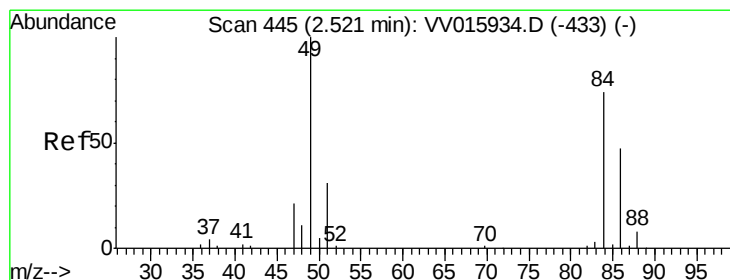
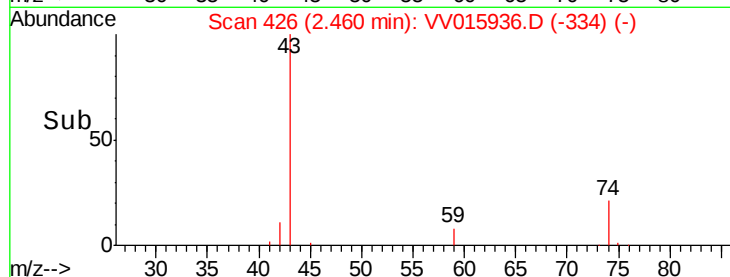
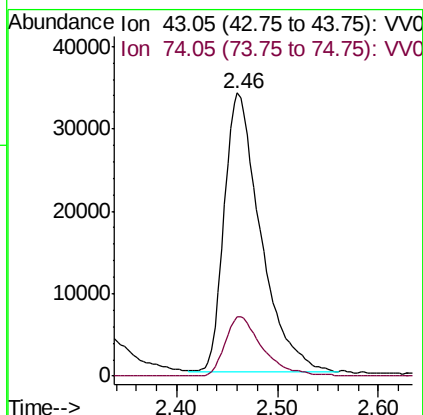
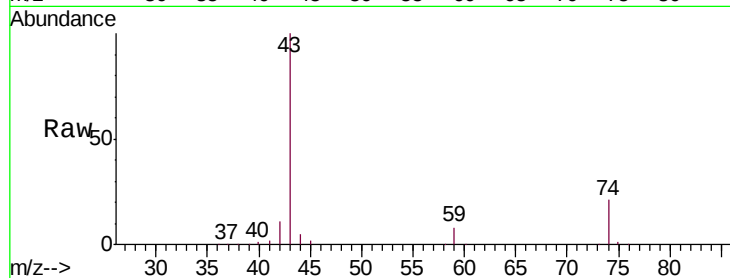




#15
Methyl Acetate
Concen: 23.106 ug/L
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

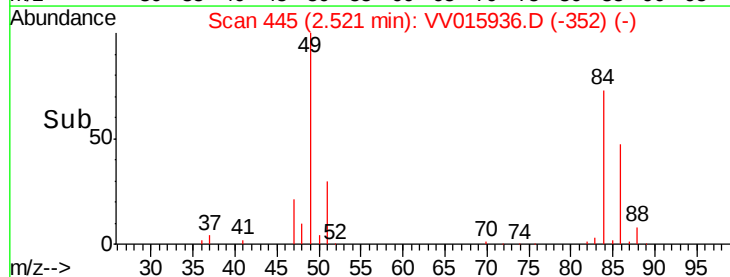
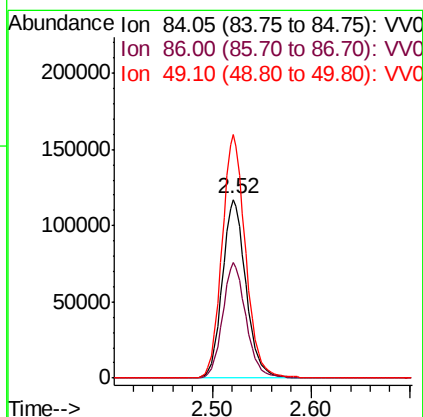
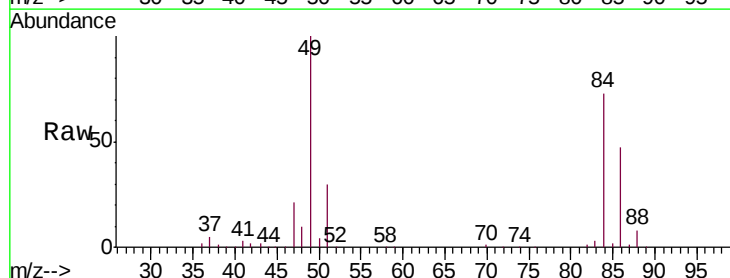
Instrument :
MSVOA_V
ClientSampleId :
VSTD02035

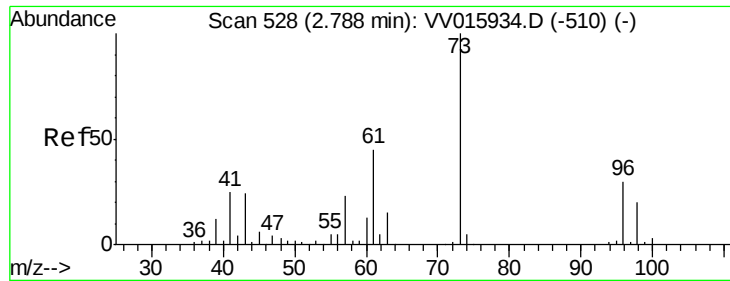
Tgt Ion: 43 Resp: 84549
Ion Ratio Lower Upper
43 100
74 22.3 19.2 28.8



#16
Methylene chloride
Concen: 15.754 ug/L
RT: 2.52 min Scan# 445
Delta R.T. -0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

Tgt Ion: 84 Resp: 196900
Ion Ratio Lower Upper
84 100
86 64.8 45.6 84.8
49 136.4 93.6 173.8

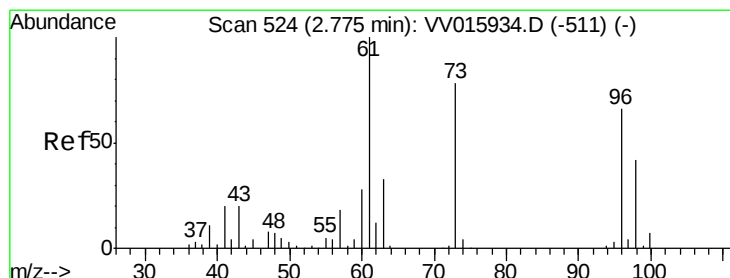
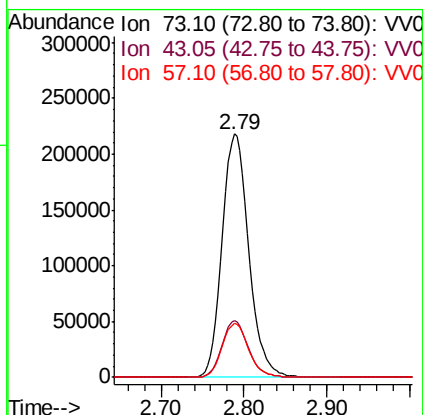
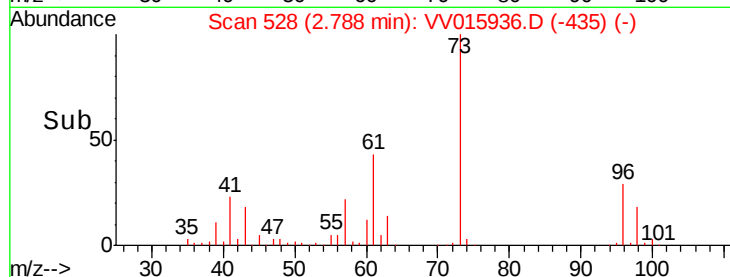
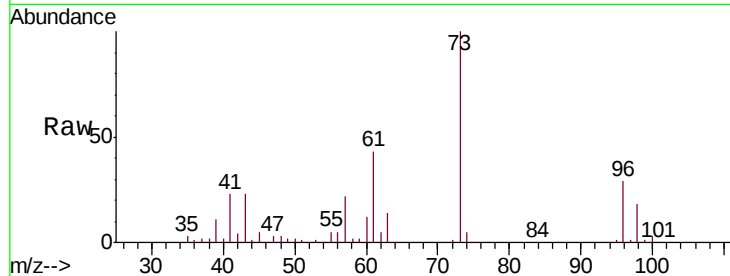




#17
Methyl tert-butyl Ether
Concen: 20.651 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

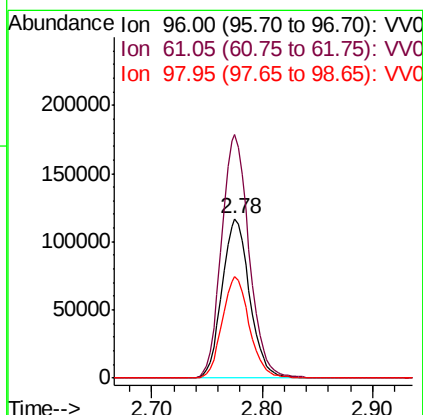
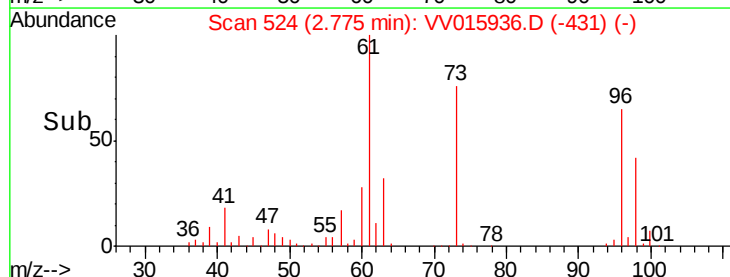
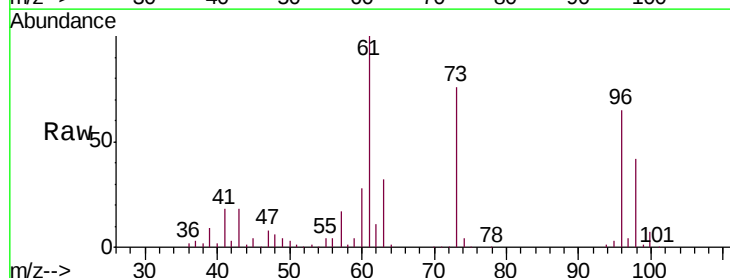
Instrument :
MSVOA_V
ClientSampled :
VSTD02035

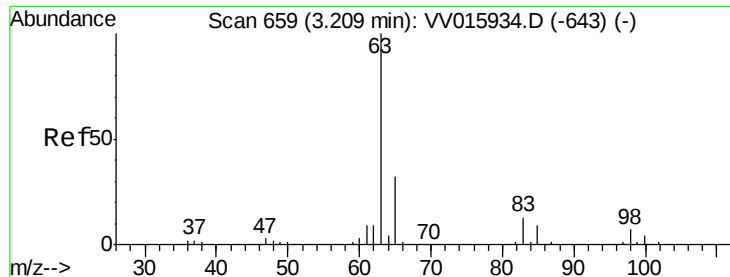
Tgt Ion: 73 Resp: 486252
Ion Ratio Lower Upper
73 100
43 22.7 18.8 28.2
57 22.3 17.8 26.6



#18
trans-1,2-Dichloroethene
Concen: 20.224 ug/L
RT: 2.78 min Scan# 524
Delta R.T. -0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

Tgt Ion: 96 Resp: 202847
Ion Ratio Lower Upper
96 100
61 152.8 105.3 195.5
98 63.9 44.0 81.6

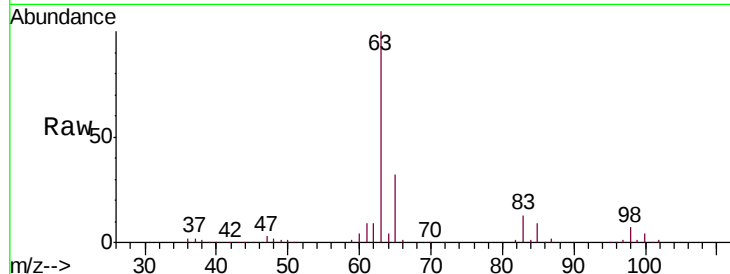




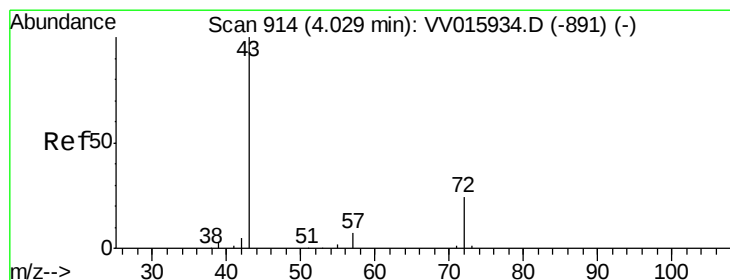
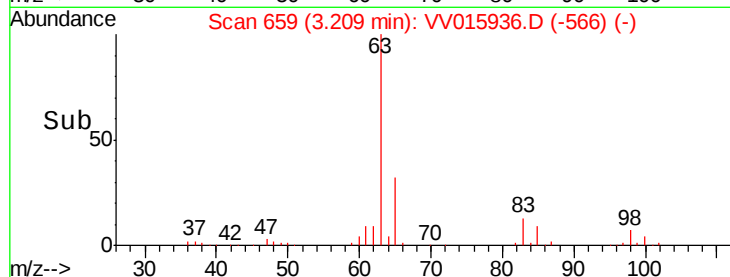
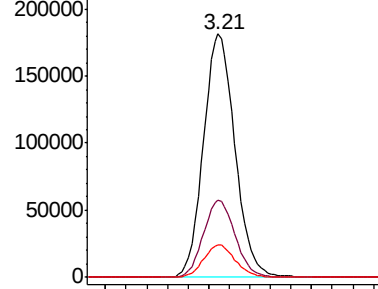
#19
 1,1-Dichloroethane
 Concen: 20.169 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VV015936.D
 Acq: 07 May 2020 11:42

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02035

Tgt Ion: 63 Resp: 386124
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.0 41.0
 83 13.5 9.8 18.2

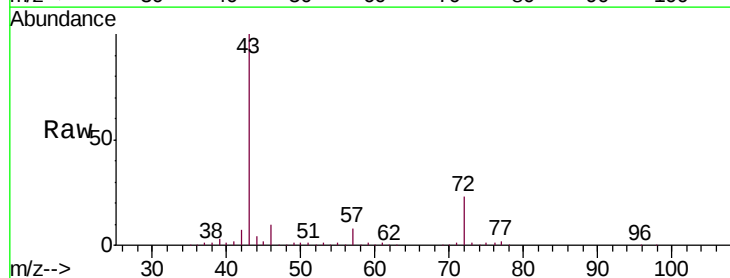


Abundance Ion 63.10 (62.80 to 63.80): VV0
 250000 Ion 65.10 (64.80 to 65.80): VV0
 200000 Ion 83.05 (82.75 to 83.75): VV0

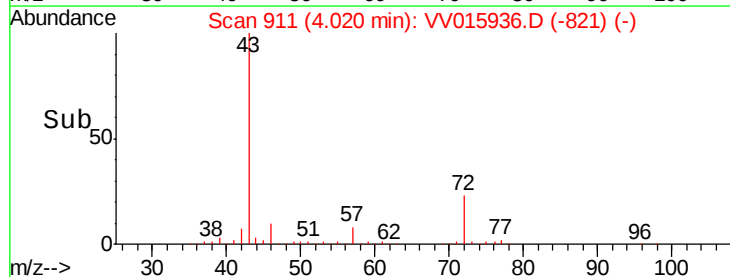
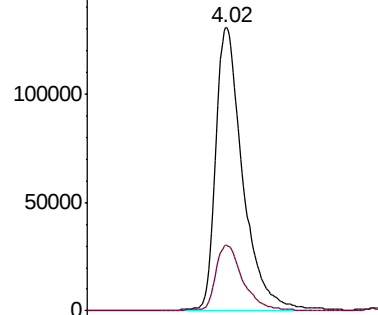


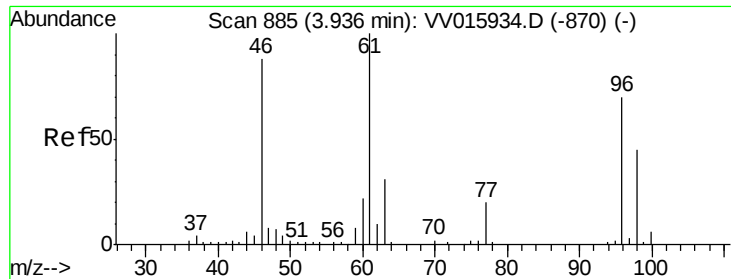
#21
 2-Butanone
 Concen: 226.638 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. -0.01 min
 Lab File: VV015936.D
 Acq: 07 May 2020 11:42

Tgt Ion: 43 Resp: 587225
 Ion Ratio Lower Upper
 43 100
 72 22.6 10.5 31.5



Abundance Ion 43.00 (42.70 to 43.70): VV0
 150000 Ion 72.00 (71.70 to 72.70): VV0



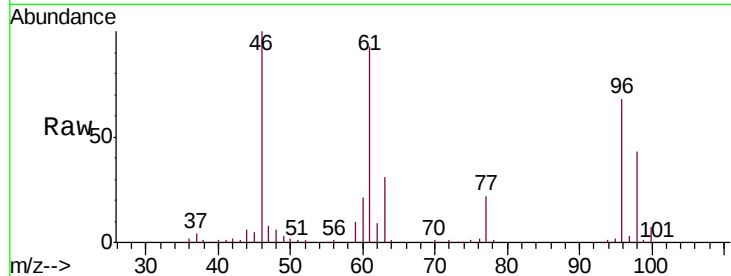


#22

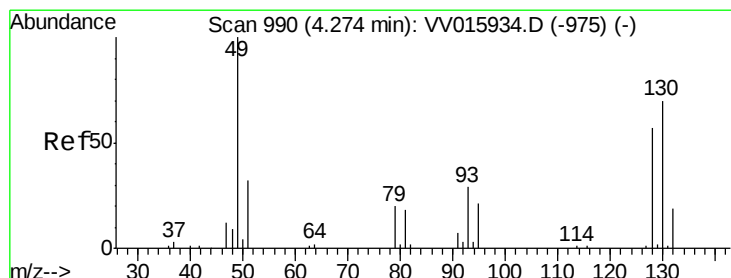
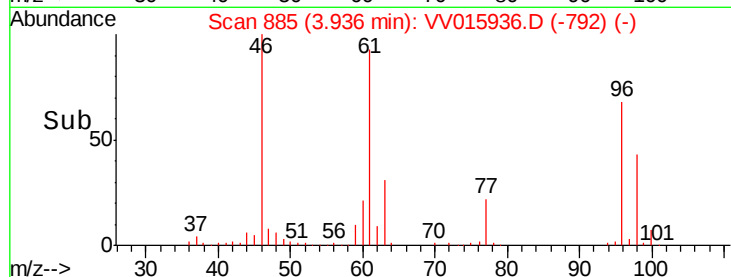
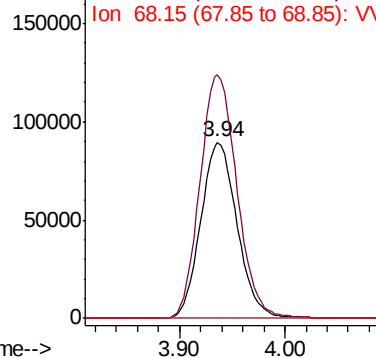
cis-1,2-Dichloroethene
Concen: 20.488 ug/L
RT: 3.94 min Scan# 885
Delta R.T. -0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

Instrument :
MSVOA_V
ClientSampleId :
VSTD02035

Tgt Ion: 96 Resp: 214353
Ion Ratio Lower Upper
96 100
61 138.1 97.2 180.6
68 0.0 0.0 0.0



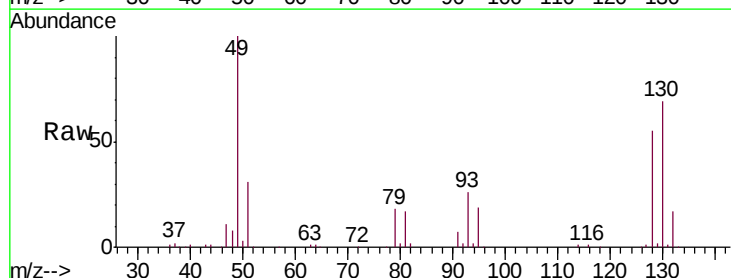
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



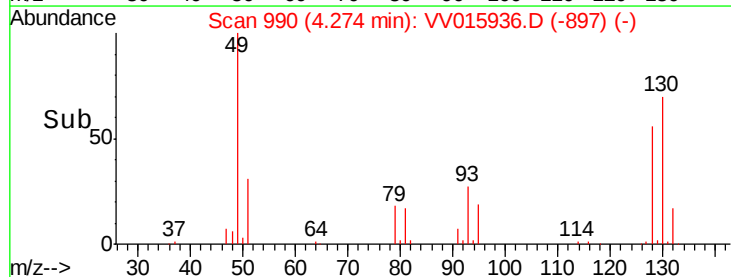
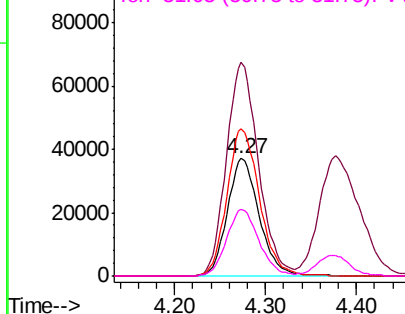
#23

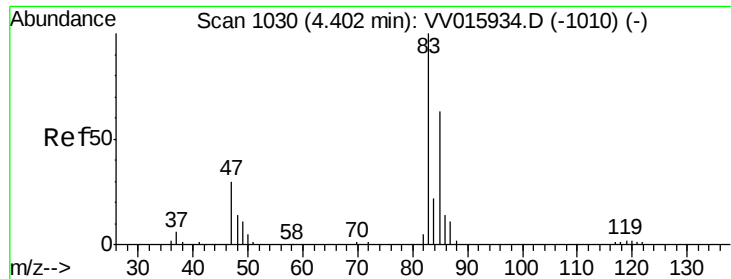
Bromochloromethane
Concen: 20.465 ug/L
RT: 4.27 min Scan# 990
Delta R.T. -0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

Tgt Ion: 128 Resp: 89958
Ion Ratio Lower Upper
128 100
49 181.7 131.3 243.8
130 125.7 91.8 170.4
51 56.7 48.8 73.2



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0

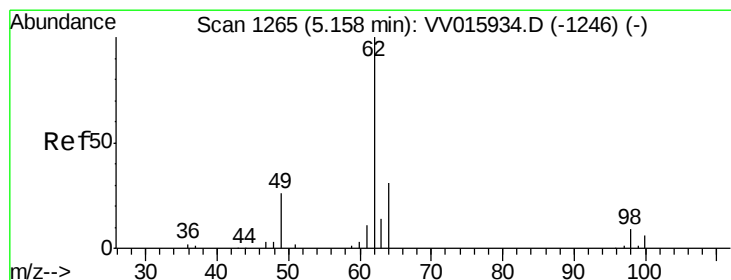
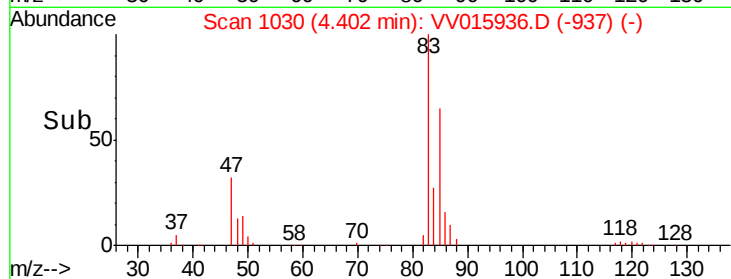
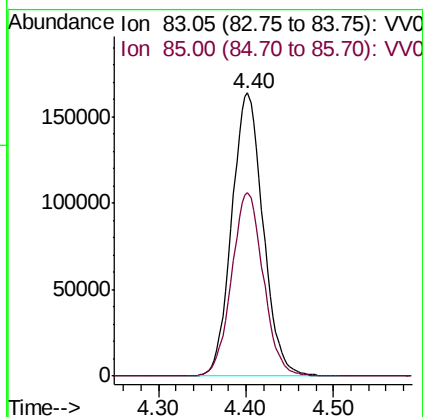
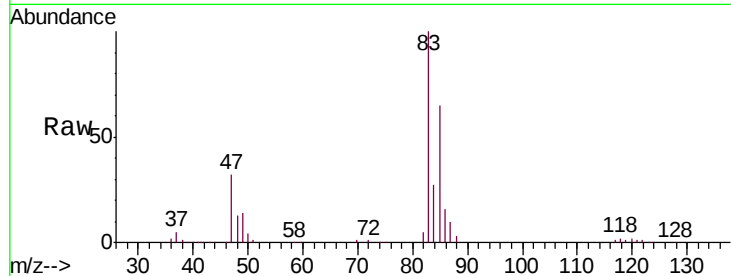




#25
Chloroform
Concen: 19.421 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

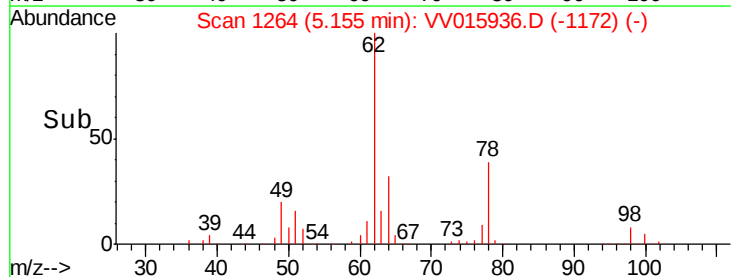
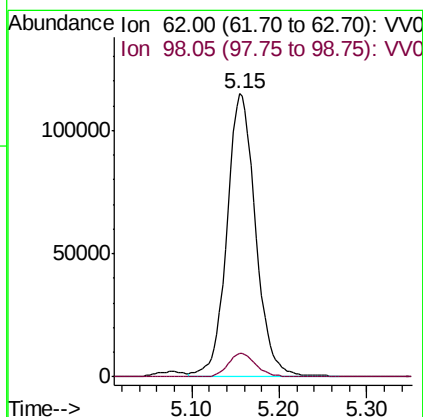
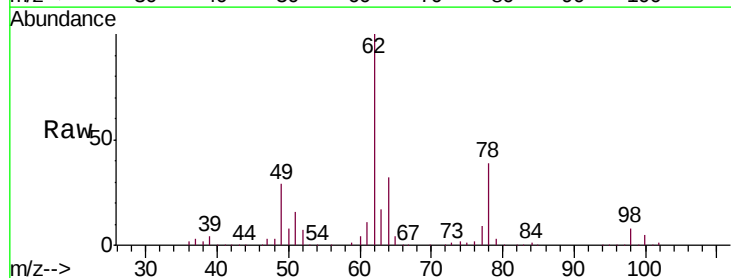
Instrument :
MSVOA_V
ClientSampleId :
VSTD02035

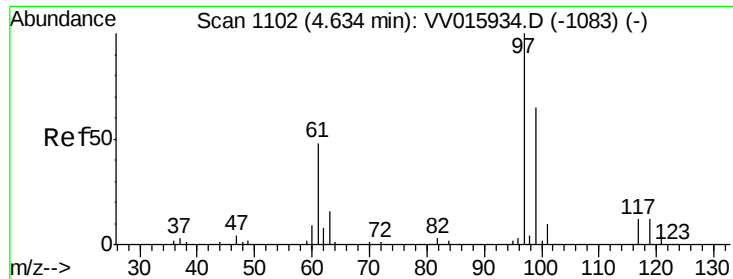
Tgt Ion: 83 Resp: 406121
Ion Ratio Lower Upper
83 100
85 64.7 45.7 84.9



#27
1,2-Dichloroethane
Concen: 20.373 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VV015936.D
Acq: 07 May 2020 11:42

Tgt Ion: 62 Resp: 260919
Ion Ratio Lower Upper
62 100
98 8.5 6.7 10.1

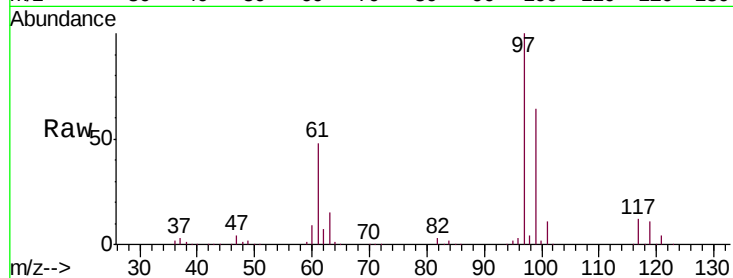




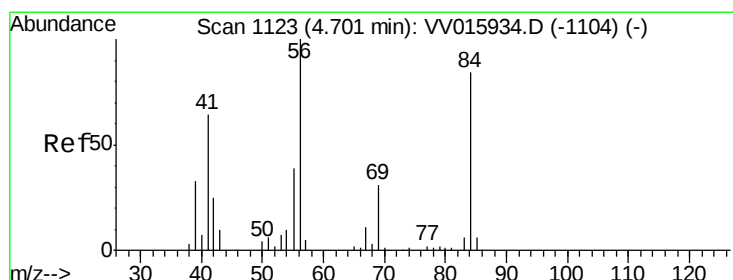
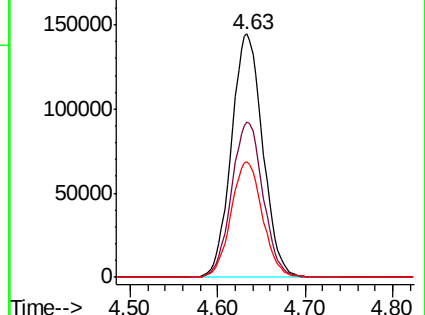
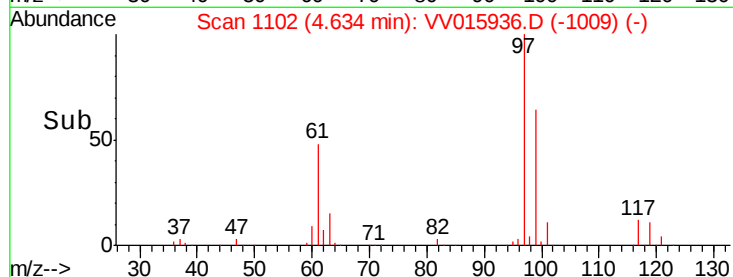
#29
 1,1,1-Trichloroethane
 Concen: 19.947 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. -0.00 min
 Lab File: VV015936.D
 Acq: 07 May 2020 11:42

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02035

Tgt Ion: 97 Resp: 359418
 Ion Ratio Lower Upper
 97 100
 99 64.1 50.7 76.1
 61 47.9 38.8 58.2

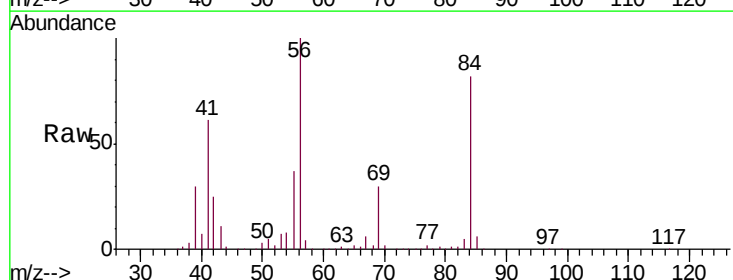


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

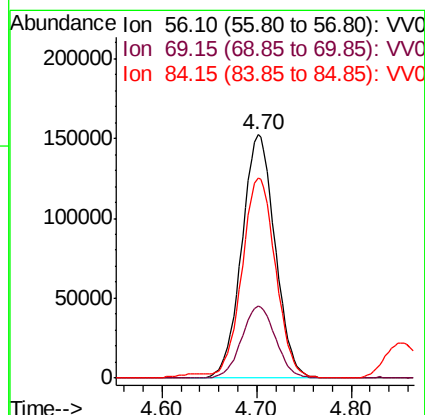
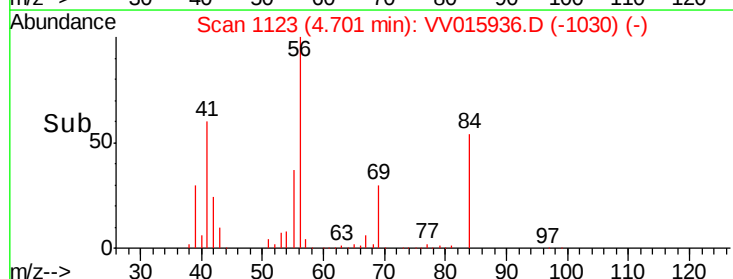


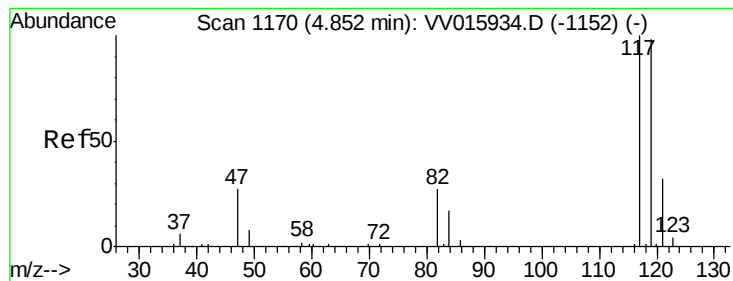
#30
 Cyclohexane
 Concen: 20.258 ug/L
 RT: 4.70 min Scan# 1123
 Delta R.T. -0.00 min
 Lab File: VV015936.D
 Acq: 07 May 2020 11:42

Tgt Ion: 56 Resp: 372496
 Ion Ratio Lower Upper
 56 100
 69 30.1 24.2 36.2
 84 83.2 68.3 102.5



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 20.157 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV015936.D

Acq: 07 May 2020 11:42

Instrument :

MSVOA_V

ClientSampled :

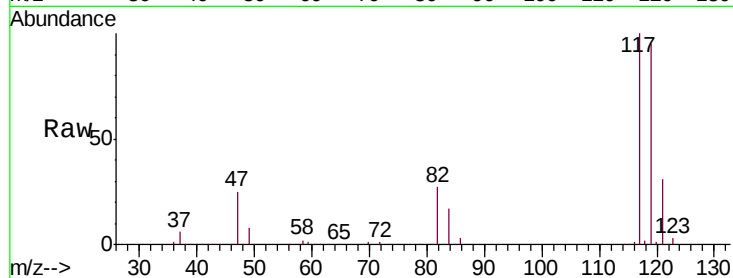
VSTD02035

Tgt Ion:117 Resp: 312156

Ion Ratio Lower Upper

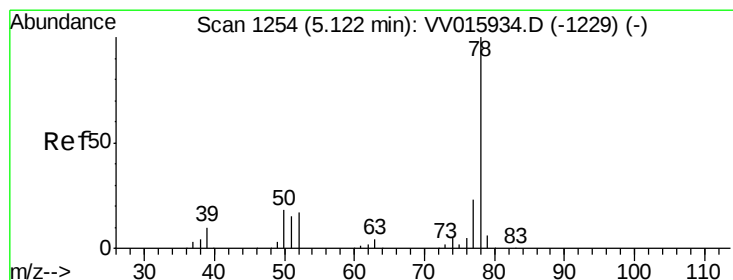
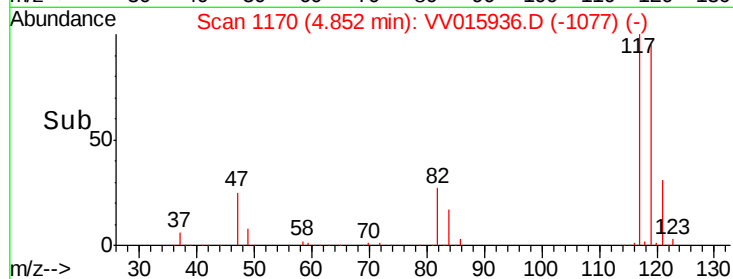
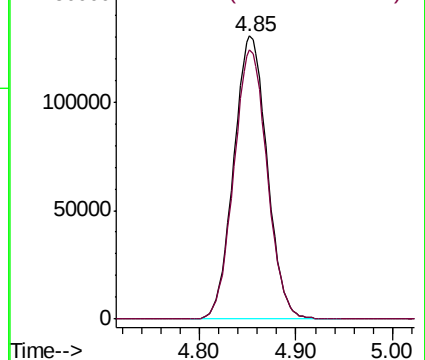
117 100

119 95.0 77.3 115.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 20.188 ug/L

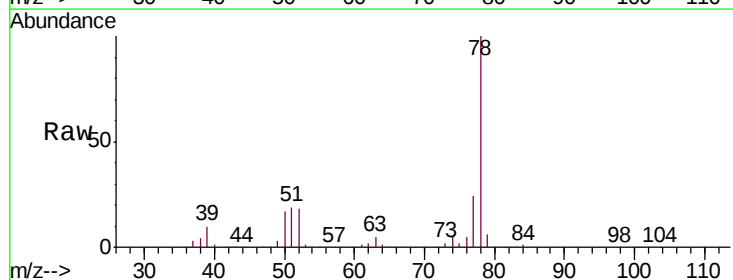
RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

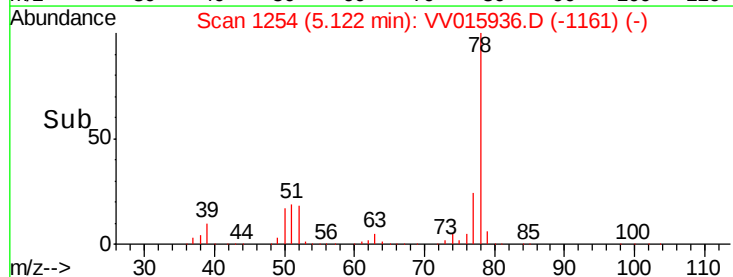
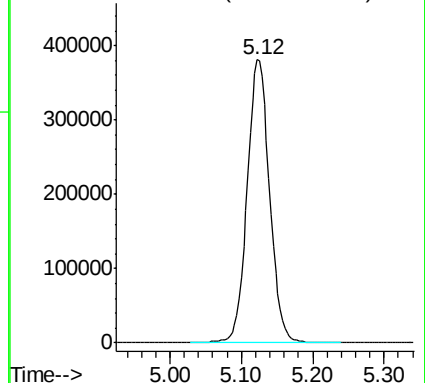
Lab File: VV015936.D

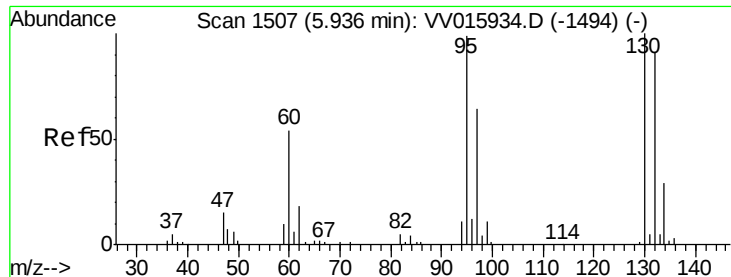
Acq: 07 May 2020 11:42

Tgt Ion: 78 Resp: 833932



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 20.084 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV015936.D

Acq: 07 May 2020 11:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD02035

Tgt Ion: 95 Resp: 226847

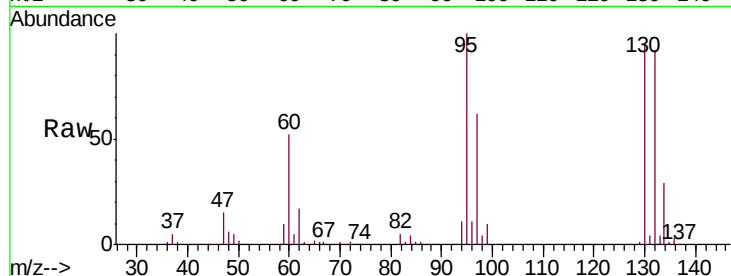
Ion Ratio Lower Upper

95 100

97 61.8 43.3 80.5

132 91.5 60.3 112.1

130 94.7 66.0 122.6

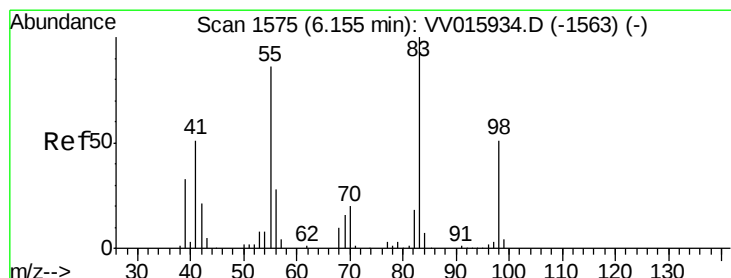
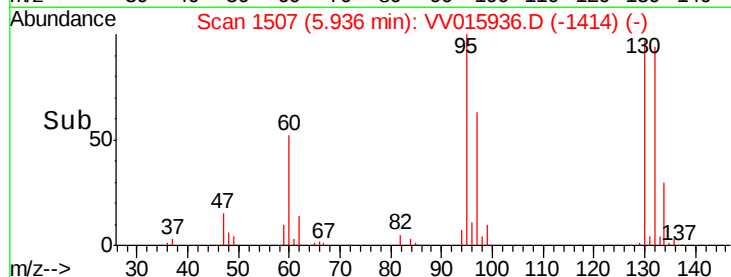
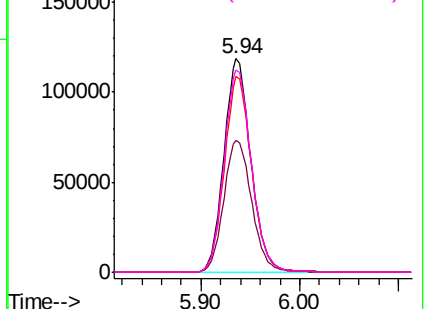


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 20.511 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VV015936.D

Acq: 07 May 2020 11:42

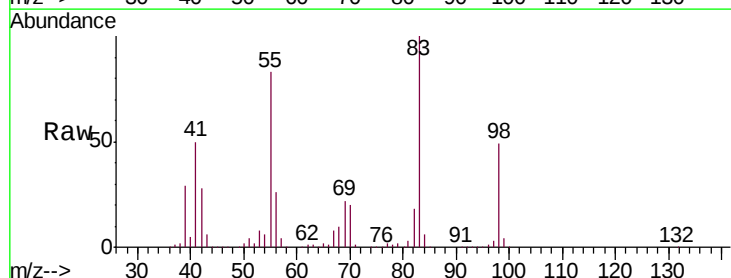
Tgt Ion: 83 Resp: 376164

Ion Ratio Lower Upper

83 100

55 82.3 66.2 99.2

98 47.6 37.9 56.9



Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

