

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011720\
 Data File : VV014346.D
 Acq On : 17 Jan 2020 19:12
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00539

Quant Time: Jan 17 22:56:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR010220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 17 22:51:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	782004	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	711974	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	338378	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	229094	4.19	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.80%
7) Chloroethane-d5	1.58	69	171169	4.05	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.00%
11) 1,1-Dichloroethene-d2	2.13	63	388133	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.20%
20) 2-Butanone-d5	3.94	46	686187	52.21	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.42%
24) Chloroform-d	4.40	84	513570	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.08	65	251920	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
32) Benzene-d6	5.10	84	1064692	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.20%
36) 1,2-Dichloropropane-d6	6.12	67	335935	5.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.00%
41) Toluene-d8	7.36	98	963784	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
43) trans-1,3-Dichloropropene-	7.66	79	131562	4.52	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.40%
46) 2-Hexanone-d5	8.13	63	606789	49.18	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.36%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	227249	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	308828	4.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	281998	4.783	ug/L 97
3) Chloromethane	1.26	50	300919	5.135	ug/L 99
5) Vinyl chloride	1.32	62	291513	5.326	ug/L 99
6) Bromomethane	1.54	94	143772	4.630	ug/L 100
8) Chloroethane	1.60	64	152061	4.945	ug/L 100
9) Trichlorofluoromethane	1.77	101	367915	5.695	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	199196	5.692	ug/L 97
12) 1,1-Dichloroethene	2.14	96	199316	5.705	ug/L 95
13) Acetone	2.20	43	332637	36.749	ug/L 97
14) Carbon disulfide	2.32	76	792783	5.114	ug/L 100
15) Methyl Acetate	2.47	43	108559	5.152	ug/L 96
16) Methylene chloride	2.54	84	288743	5.077	ug/L 93
17) Methyl tert-butyl Ether	2.80	73	656697	5.079	ug/L 98
18) trans-1,2-Dichloroethene	2.79	96	282362	5.377	ug/L 97
19) 1,1-Dichloroethane	3.23	63	556518	5.407	ug/L 97
21) 2-Butanone	4.02	43	690673	50.869	ug/L 97
22) cis-1,2-Dichloroethene	3.96	96	312630	5.430	ug/L 91

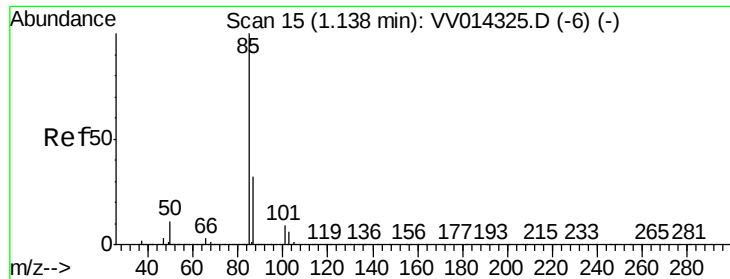
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011720\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 17 22:51:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	113853	5.202	uq/L	88
25) Chloroform	4.43	83	562838	5.711	uq/L	99
27) 1,2-Dichloroethane	5.18	62	306187	5.193	uq/L	96
29) 1,1,1-Trichloroethane	4.66	97	463095	5.464	uq/L	99
30) Cyclohexane	4.72	56	531995	5.685	uq/L	97
31) Carbon tetrachloride	4.87	117	392147	5.403	uq/L	98
33) Benzene	5.15	78	1209084	5.514	uq/L	100
34) Trichloroethene	5.96	95	321615	5.708	uq/L	97
35) Methylcyclohexane	6.17	83	522884	5.676	uq/L	96
37) 1,2-Dichloropropane	6.22	63	300786	5.435	uq/L	100
38) Bromodichloromethane	6.55	83	373622	5.235	uq/L	100
39) cis-1,3-Dichloropropene	7.07	75	459678	5.130	uq/L	99
40) 4-Methyl-2-pentanone	7.27	43	1814514	52.010	uq/L	99
42) Toluene	7.43	91	1277200	5.518	uq/L	100
44) trans-1,3-Dichloropropene	7.69	75	341611	4.965	uq/L	99
45) 1,1,2-Trichloroethane	7.88	97	188675	5.337	uq/L	98
47) Tetrachloroethene	8.02	164	211398	5.492	uq/L	98
48) 2-Hexanone	8.18	43	1265543	52.445	uq/L	98
49) Dibromochloromethane	8.29	129	230450	5.156	uq/L	98
50) 1,2-Dibromoethane	8.39	107	173469	5.067	uq/L	93
51) Chlorobenzene	8.92	112	773185	5.432	uq/L	98
52) Ethylbenzene	9.05	91	1457194	5.628	uq/L	99
53) m,p-xylene	9.18	106	536340	5.615	uq/L	97
54) o-xylene	9.58	106	515758	5.490	uq/L	94
55) Styrene	9.60	104	865940	5.442	uq/L	96
56) Isopropylbenzene	9.97	105	1395145	5.694	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	218904	5.021	uq/L	100
59) 1,2,3-Trichloropropane	10.31	75	171619	5.204	uq/L	99
61) Bromoform	9.77	173	111359	4.855	uq/L	95
62) 1,3-Dichlorobenzene	11.22	146	571932	5.406	uq/L	100
63) 1,4-Dichlorobenzene	11.31	146	577789	5.493	uq/L	99
65) 1,2-Dichlorobenzene	11.68	146	521042	5.454	uq/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	39152	4.459	uq/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	411407	5.348	uq/L	98
68) 1,2,4-trichlorobenzene	13.30	180	353880	5.245	uq/L	99
69) Naphthalene	13.55	128	665783	4.857	uq/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	314421	5.296	uq/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.783 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

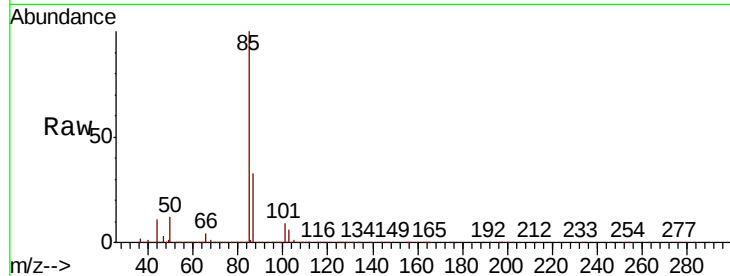
VSTD00539

Tot Ion: 85 Resp: 281998

Ion Ratio Lower Upper

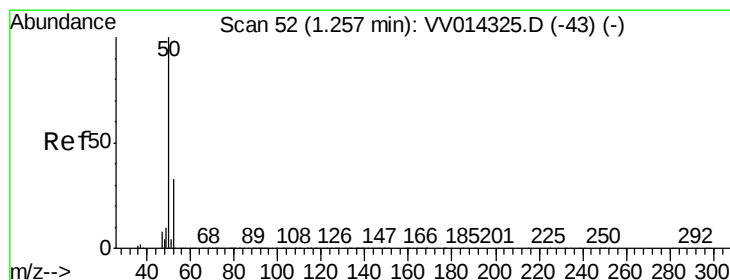
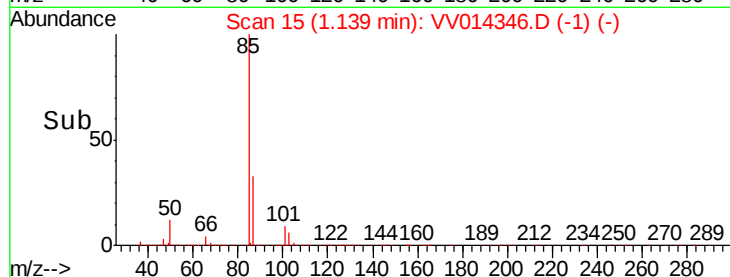
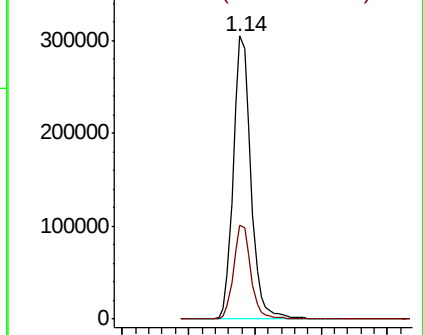
85 100

87 32.8 25.1 37.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 5.135 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014346.D

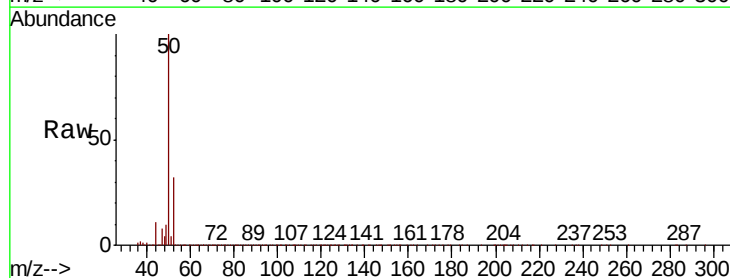
Acq: 17 Jan 2020 19:12

Tgt Ion: 50 Resp: 300919

Ion Ratio Lower Upper

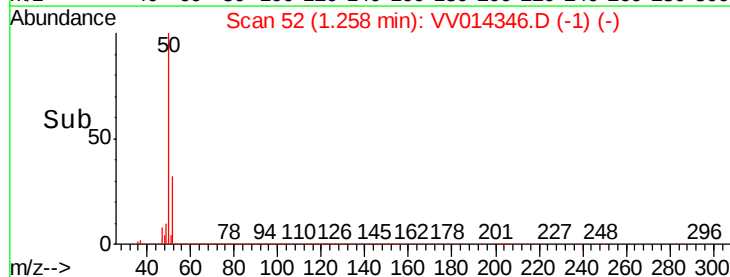
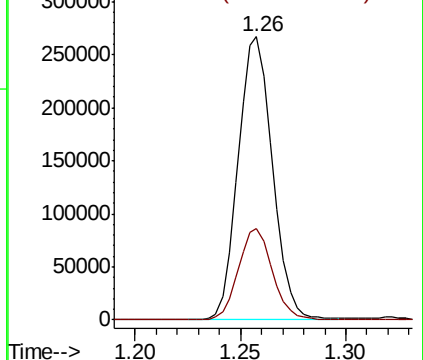
50 100

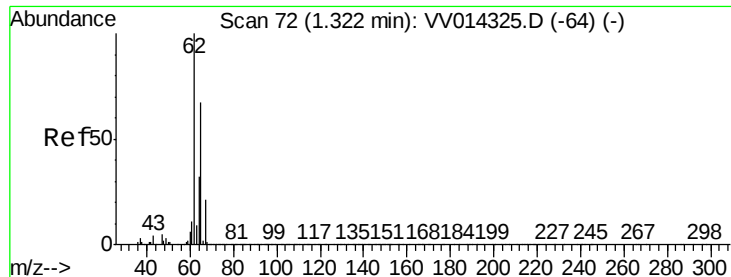
52 32.2 22.3 41.3



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 5.326 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

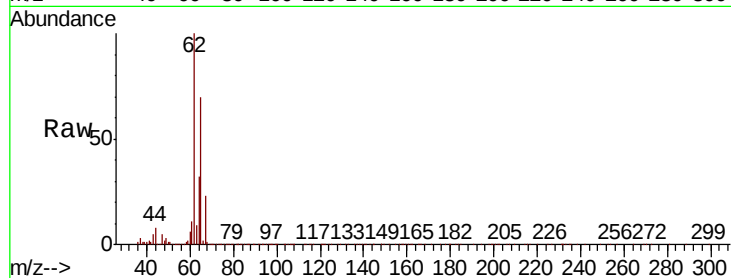
VSTD00539

Tot Ion: 62 Resp: 291513

Ion Ratio Lower Upper

62 100

64 32.1 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

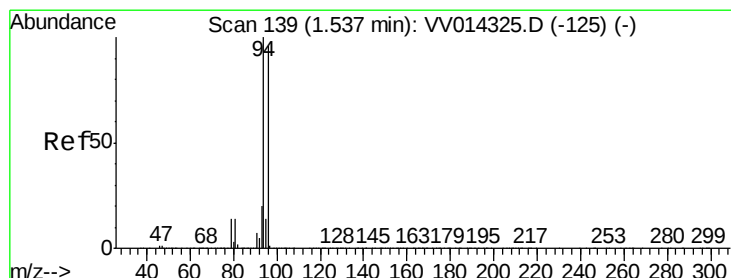
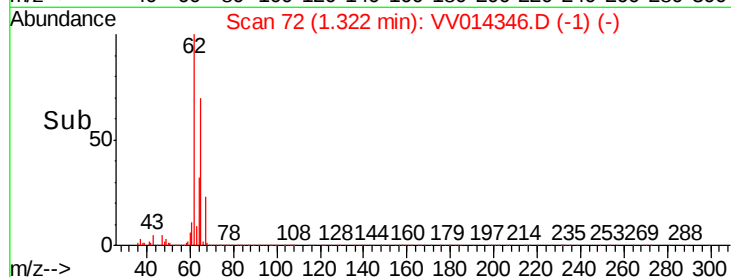
300000

200000

100000

0

Time--> 1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 4.630 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014346.D

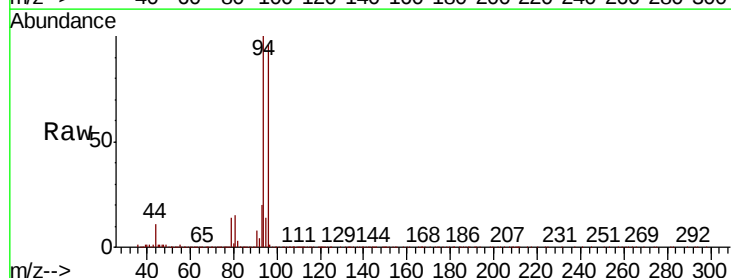
Acq: 17 Jan 2020 19:12

Tgt Ion: 94 Resp: 143772

Ion Ratio Lower Upper

94 100

96 95.7 66.9 124.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

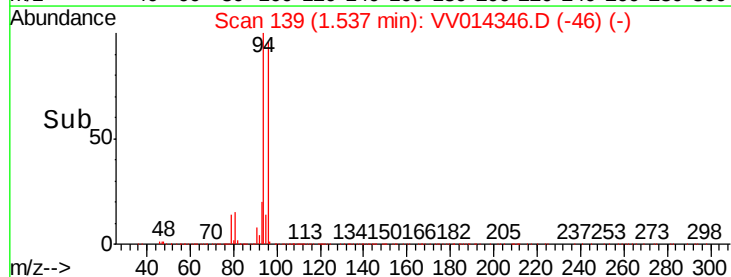
150000

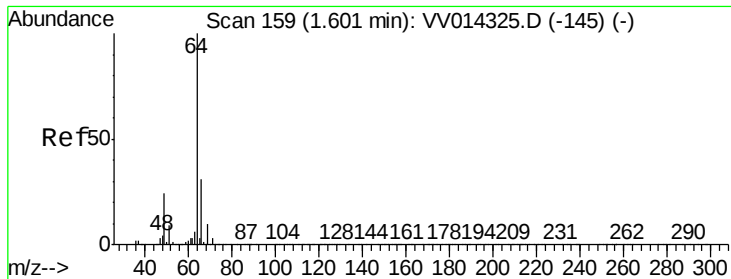
100000

50000

0

Time--> 1.50 1.55 1.60

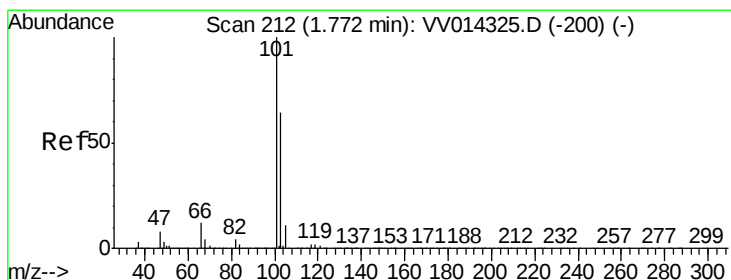
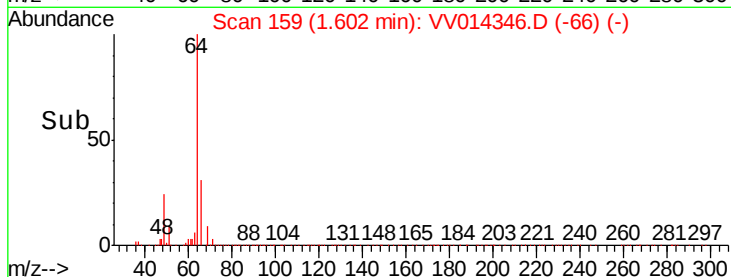
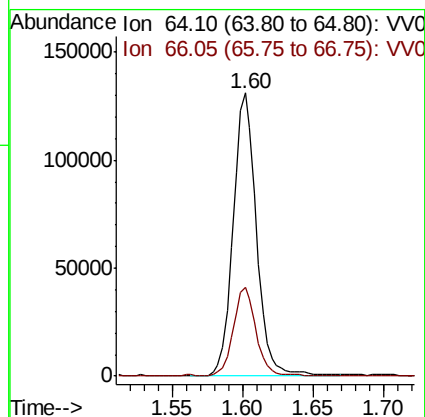
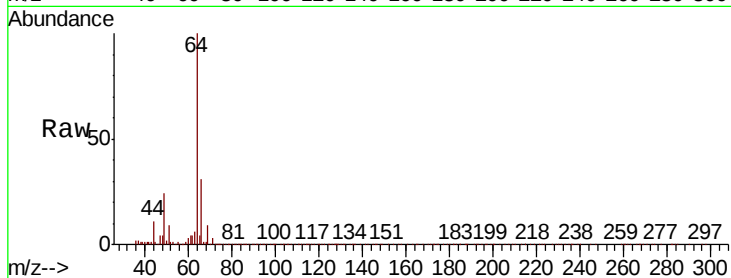




#8
Chloroethane
Concen: 4.945 ug/L
RT: 1.60 min Scan# 159
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

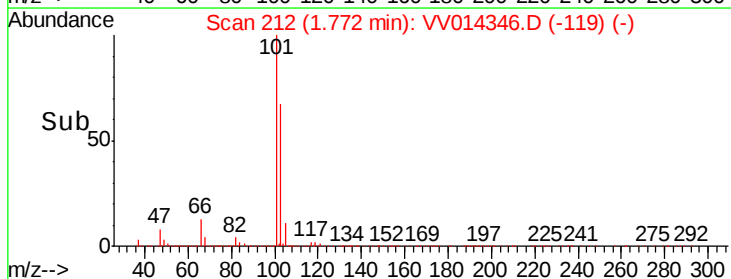
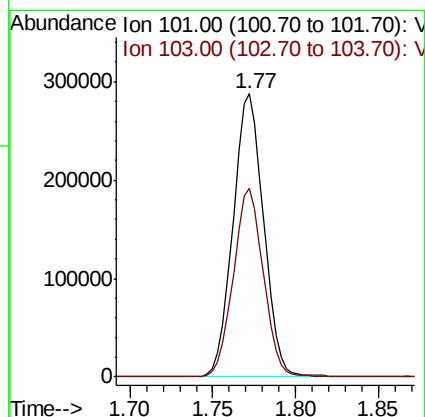
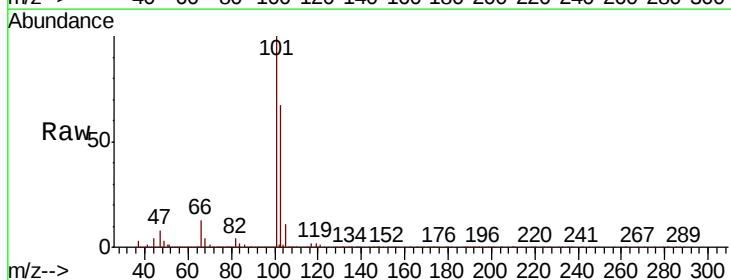
Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

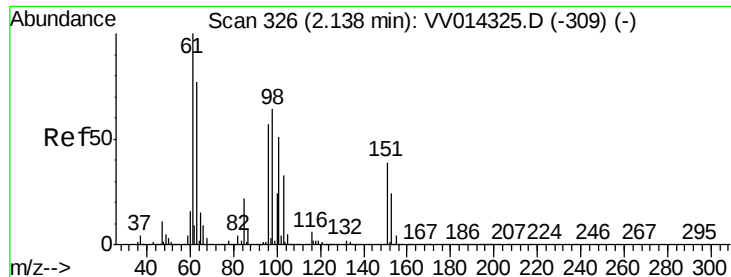
Tot Ion: 64 Resp: 152061
Ion Ratio Lower Upper
64 100
66 31.3 21.8 40.6



#9
Trichlorofluoromethane
Concen: 5.695 ug/L
RT: 1.77 min Scan# 212
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

Tgt Ion: 101 Resp: 367915
Ion Ratio Lower Upper
101 100
103 65.4 52.6 78.8





#10

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

Concen: 5.692 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

VSTD00539

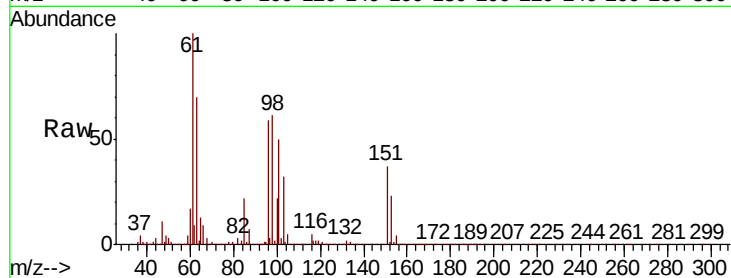
Tot Ion:101 Resp: 199196

Ion Ratio Lower Upper

101 100

85 43.7 34.9 52.3

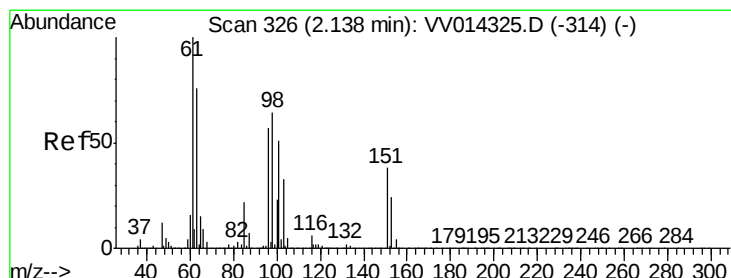
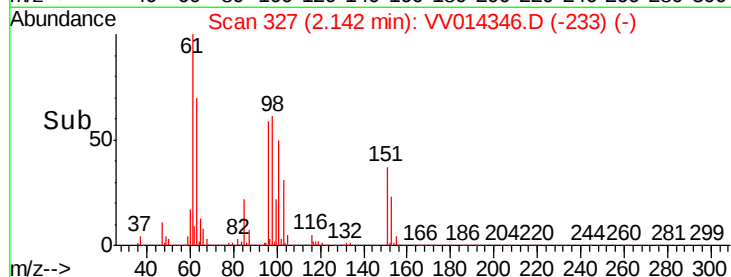
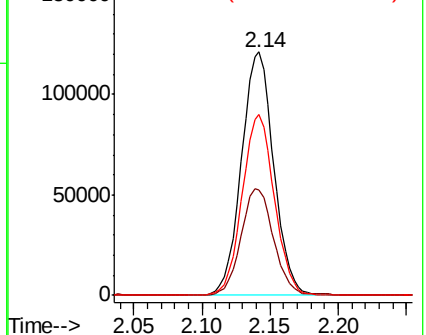
151 73.9 62.5 93.7



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: 5.705 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

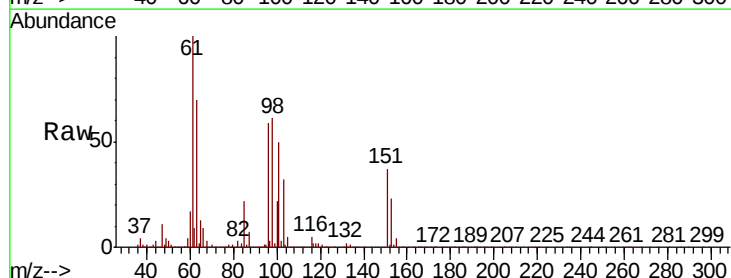
Tgt Ion: 96 Resp: 199316

Ion Ratio Lower Upper

96 100

61 170.4 121.5 225.7

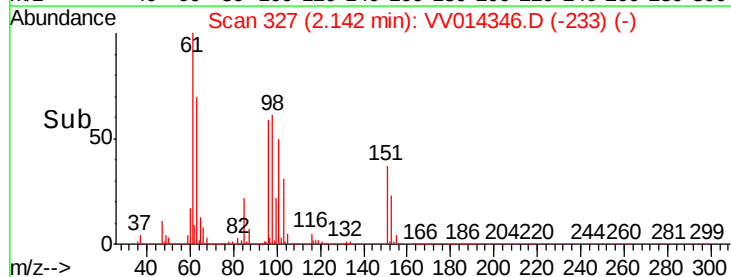
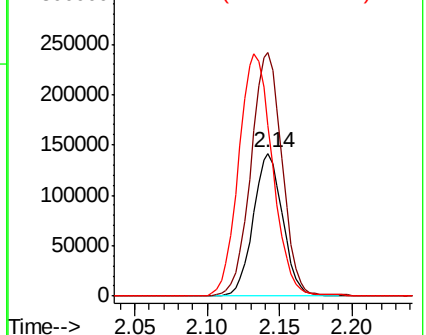
63 119.5 90.3 167.7

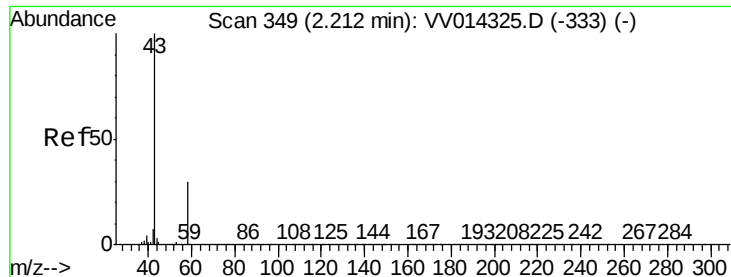


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 36.749 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.01 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

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ClientSampleId :

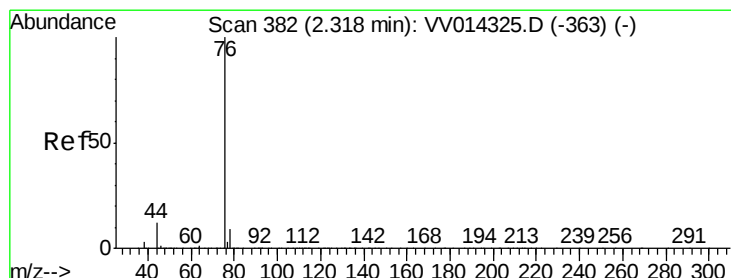
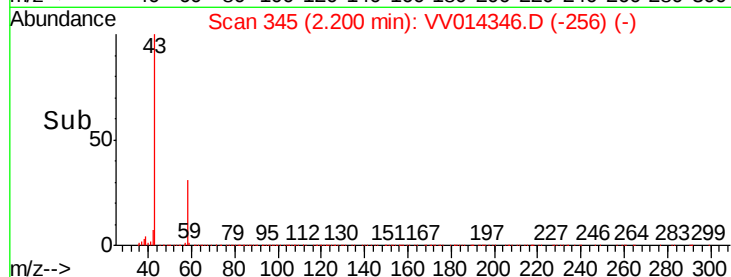
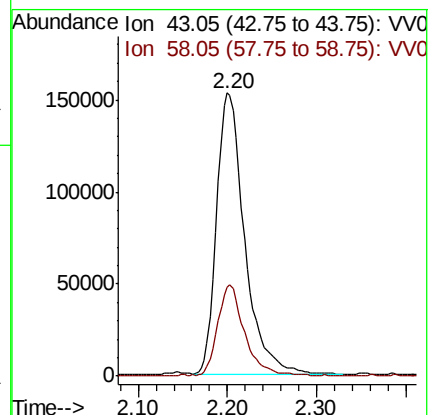
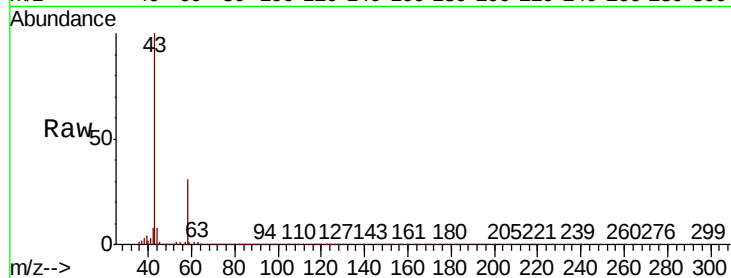
VSTD00539

Tot Ion: 43 Resp: 332637

Ion Ratio Lower Upper

43 100

58 31.4 0.0 66.0



#14

Carbon disulfide

Concen: 5.114 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014346.D

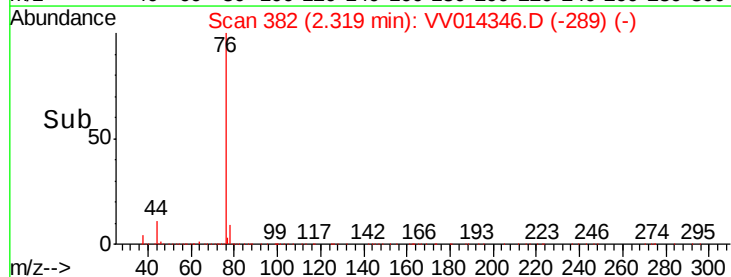
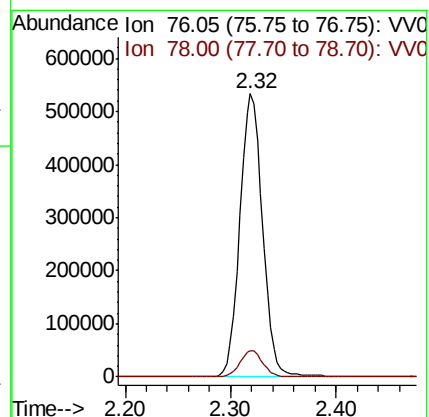
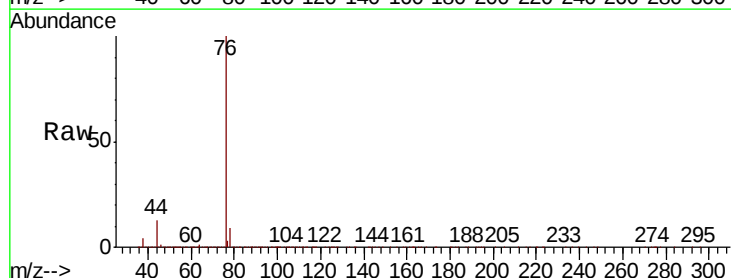
Acq: 17 Jan 2020 19:12

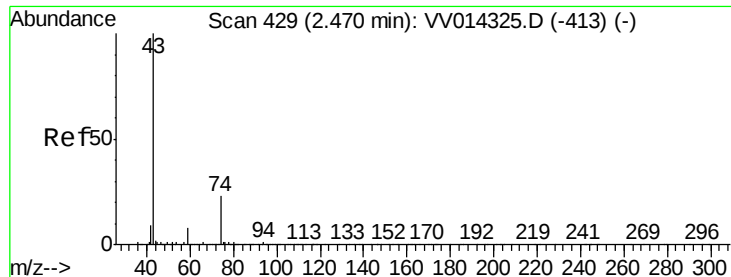
Tgt Ion: 76 Resp: 792783

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3





#15

Methyl Acetate

Concen: 5.152 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

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ClientSampleId :

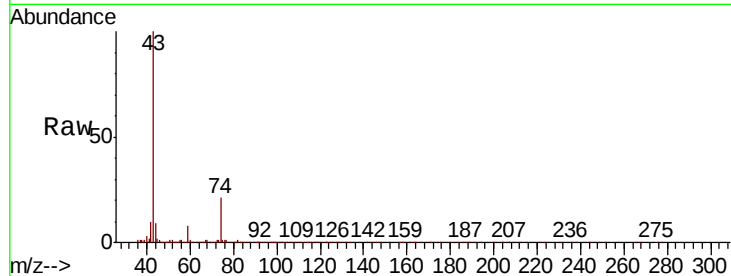
VSTD00539

Tot Ion: 43 Resp: 108559

Ion Ratio Lower Upper

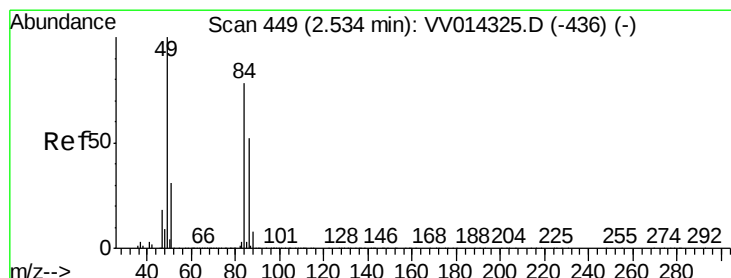
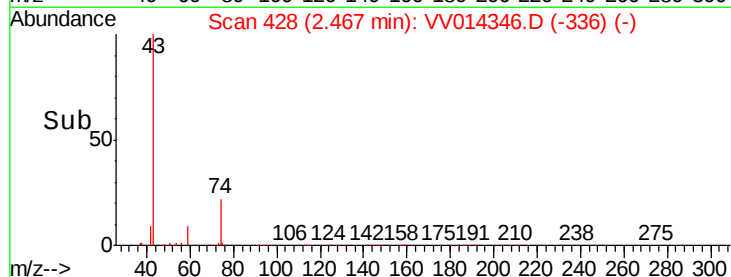
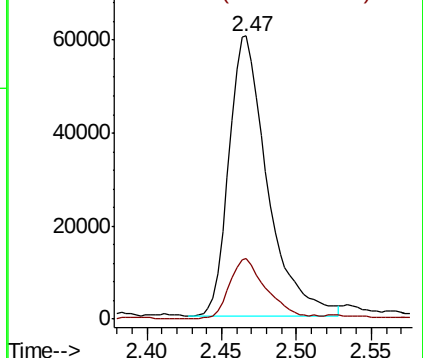
43 100

74 21.1 18.6 28.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 5.077 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

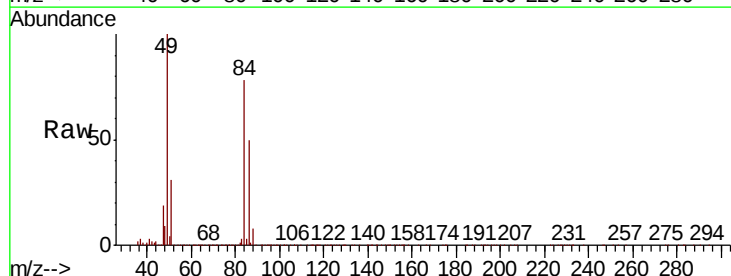
Tgt Ion: 84 Resp: 288743

Ion Ratio Lower Upper

84 100

86 63.5 43.1 80.1

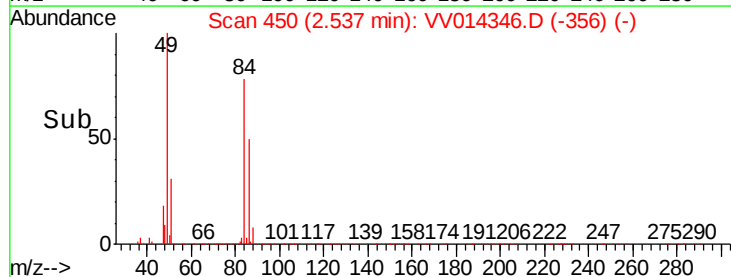
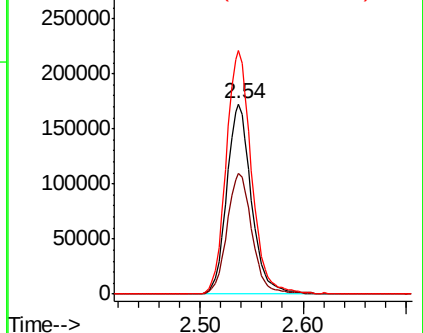
49 128.0 82.1 152.5

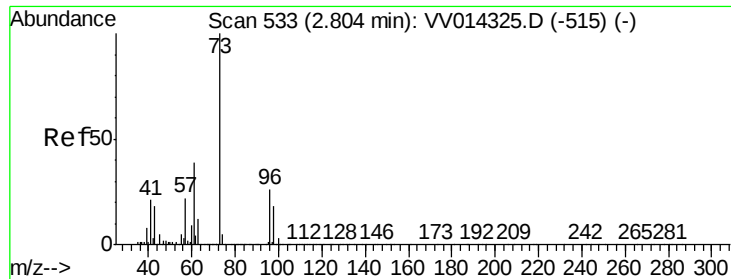


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

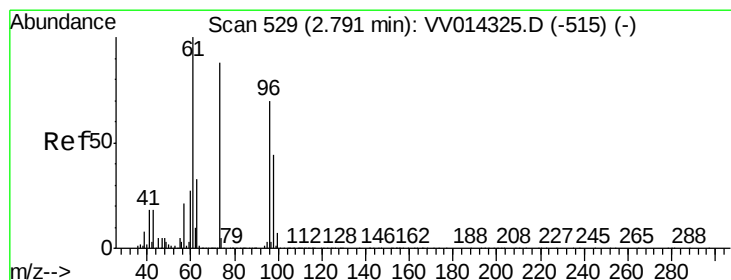
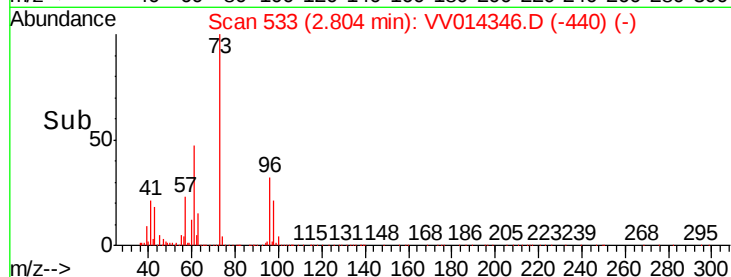
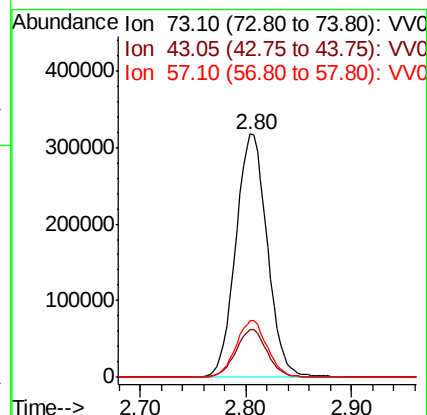
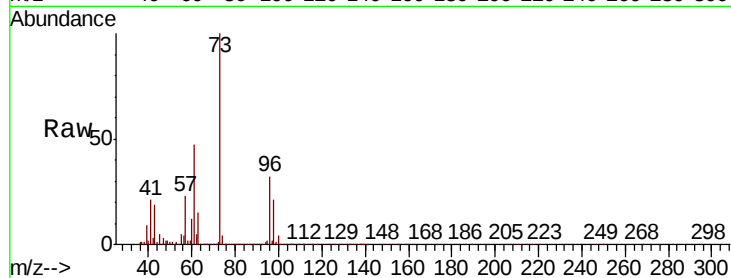




#17
Methvl tert-butvl Ether
Concen: 5.079 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

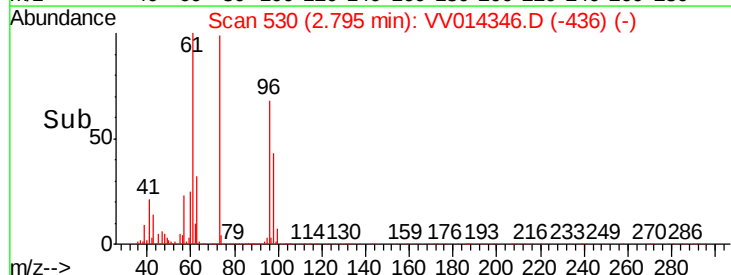
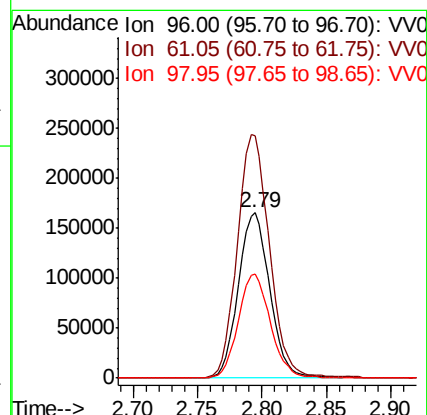
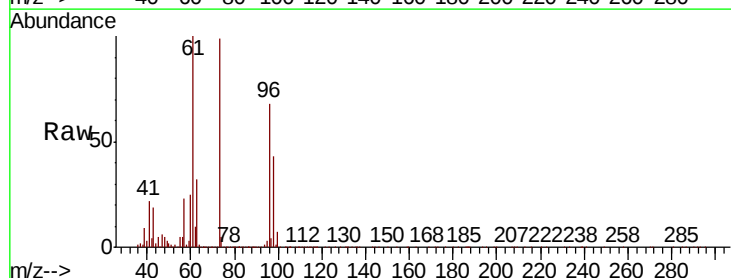
Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

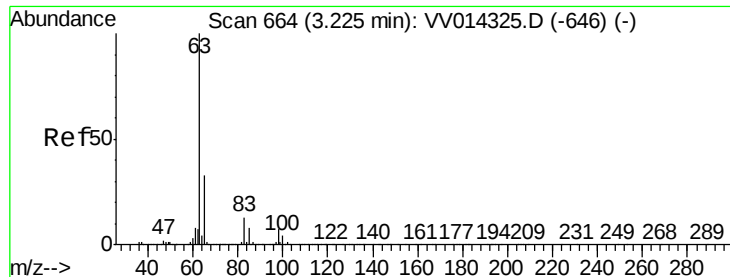
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.2	14.7	22.1
57	23.2	17.9	26.9



#18
trans-1,2-Dichloroethene
Concen: 5.377 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.7	99.2	184.2
98	62.8	43.1	80.1

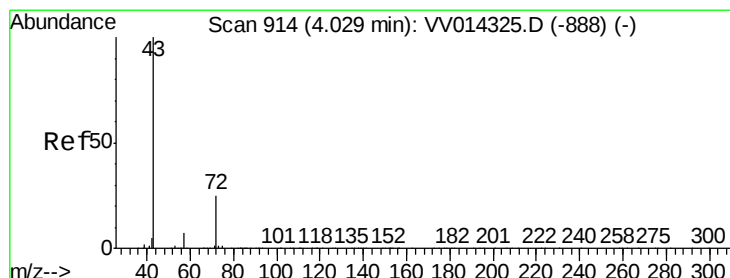
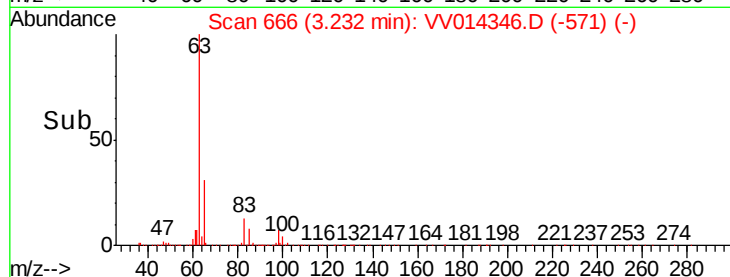
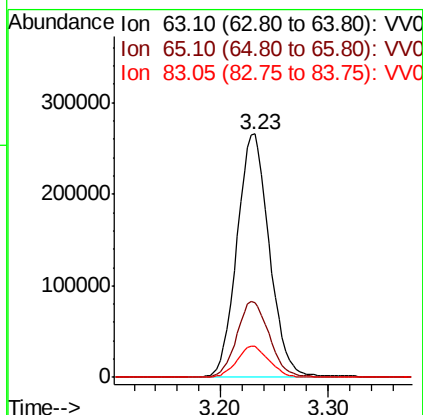
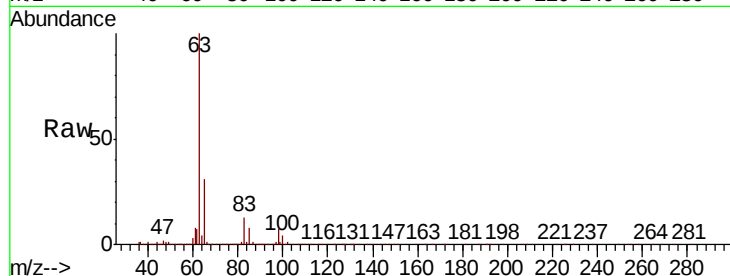




#19
 1,1-Dichloroethane
 Concen: 5.407 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

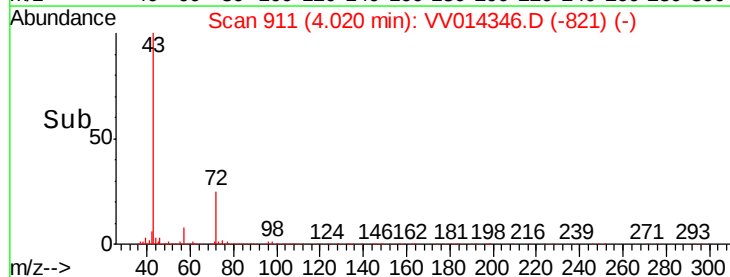
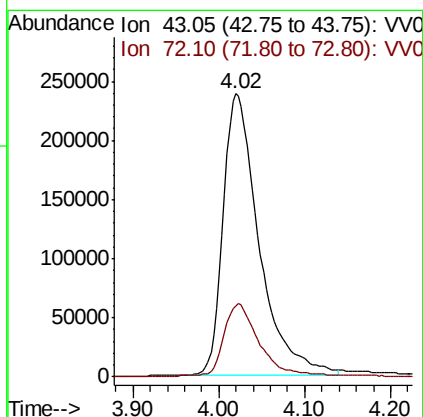
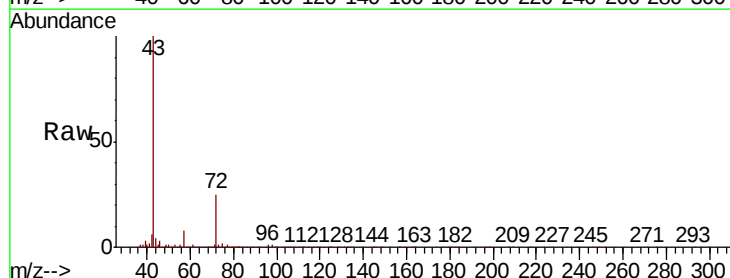
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00539

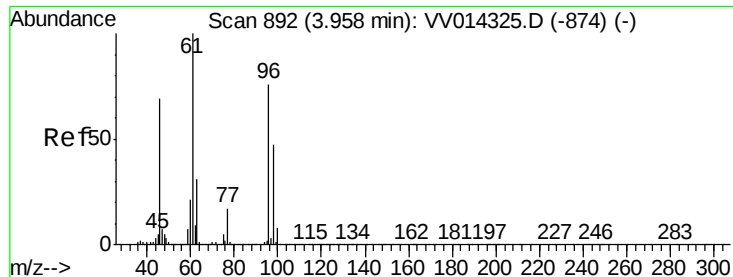
Tot Ion: 63 Resp: 556518
 Ion Ratio Lower Upper
 63 100
 65 30.9 22.7 42.3
 83 12.7 10.0 18.6



#21
 2-Butanone
 Concen: 50.869 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. -0.01 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

Tgt Ion: 43 Resp: 690673
 Ion Ratio Lower Upper
 43 100
 72 26.2 12.4 37.2



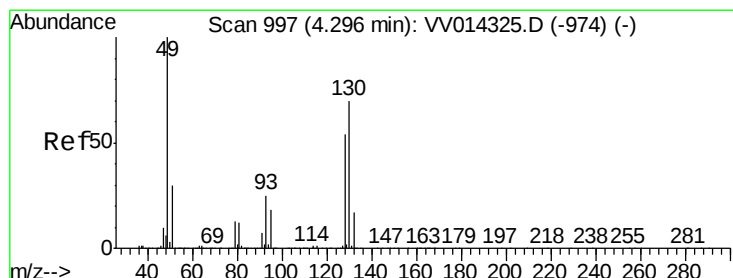
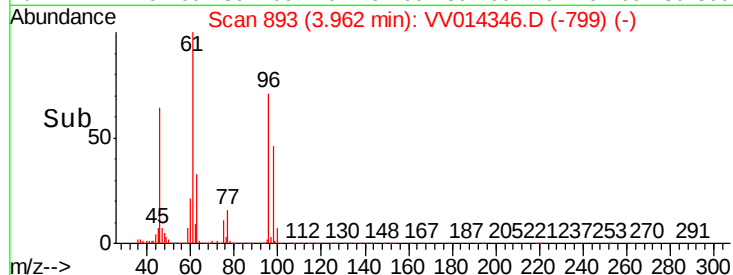
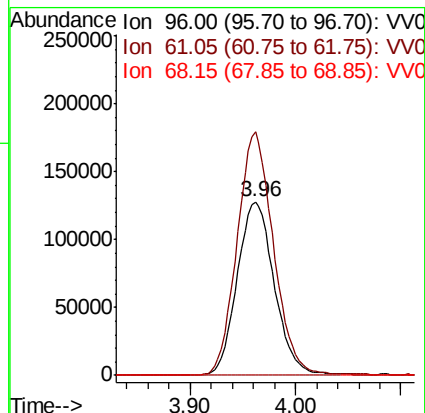
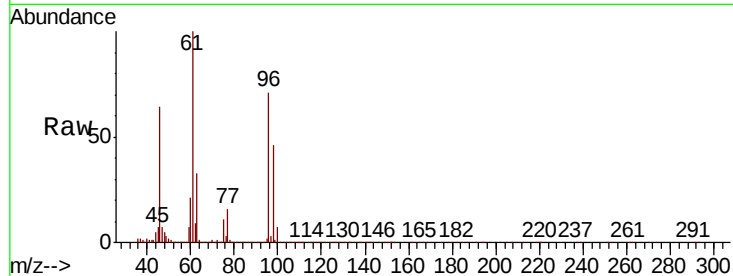


#22

cis-1,2-Dichloroethene
 Concen: 5.430 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00539

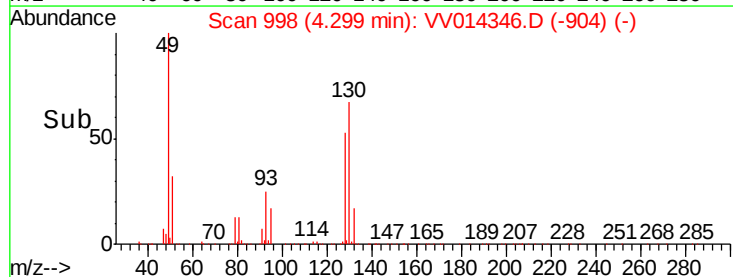
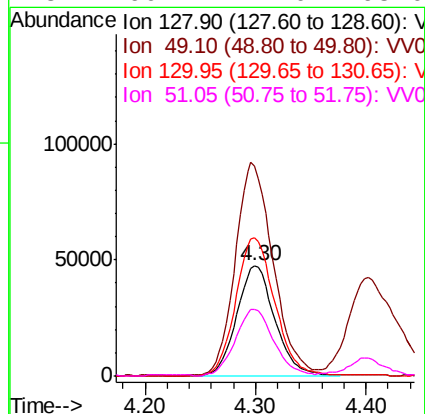
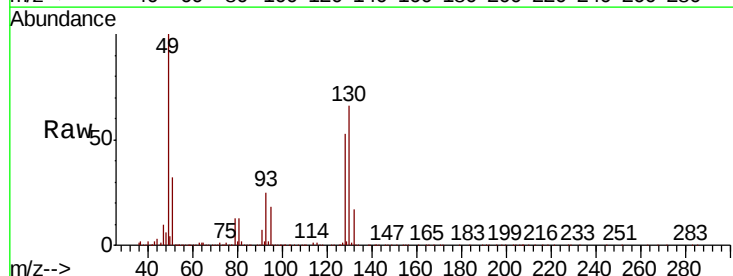
Tot Ion	Ratio	Lower	Upper
96	100		
61	140.0	90.6	168.3
68	0.4	0.3	0.7

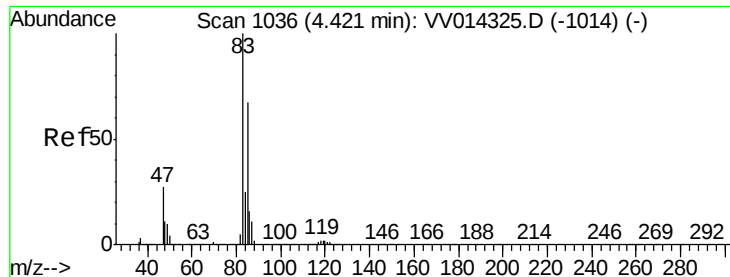


#23

Bromochloromethane
 Concen: 5.202 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

Tgt Ion	Ratio	Lower	Upper
128	100		
49	189.5	117.5	218.1
130	125.3	93.7	173.9
51	60.7	42.0	63.0





#25

Chloroform

Concen: 5.711 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

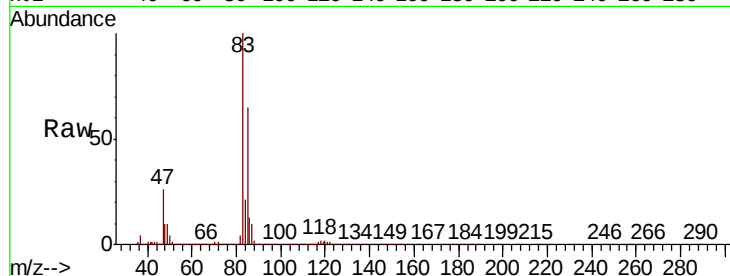
VSTD00539

Tot Ion: 83 Resp: 562838

Ion Ratio Lower Upper

83 100

85 65.2 46.2 85.8



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0

4.43

250000

200000

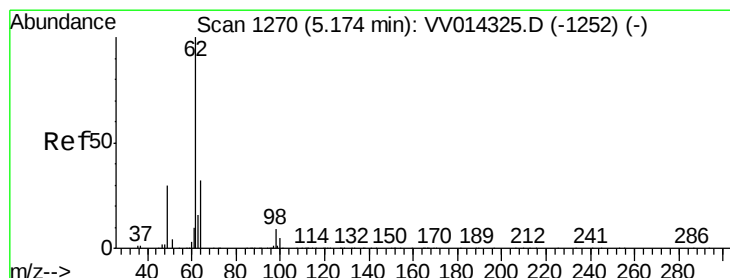
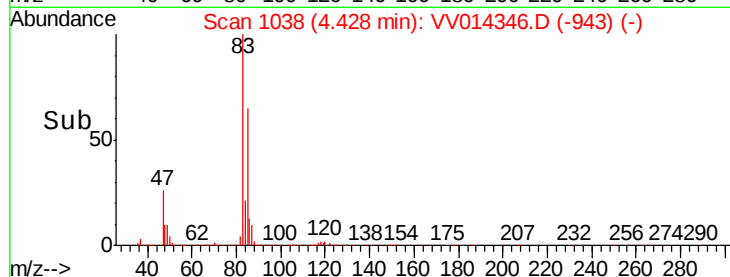
150000

100000

50000

0

Time--> 4.30 4.40 4.50



#27

1,2-Dichloroethane

Concen: 5.193 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV014346.D

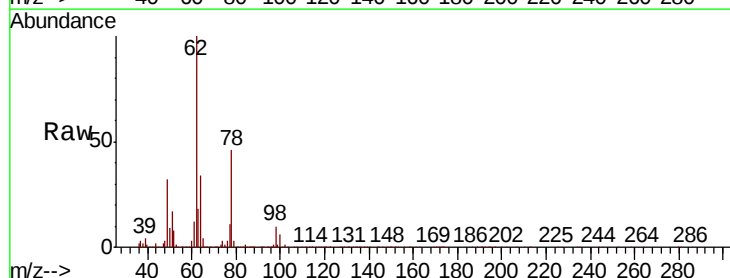
Acq: 17 Jan 2020 19:12

Tgt Ion: 62 Resp: 306187

Ion Ratio Lower Upper

62 100

98 10.0 9.2 13.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0

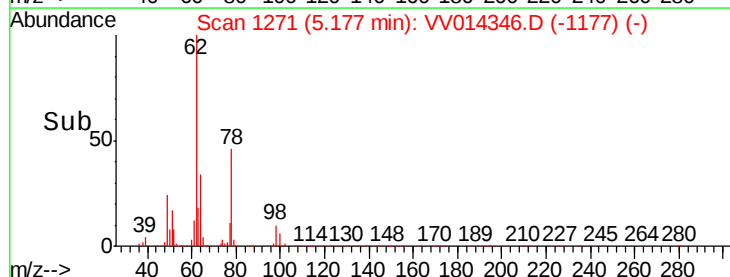
150000

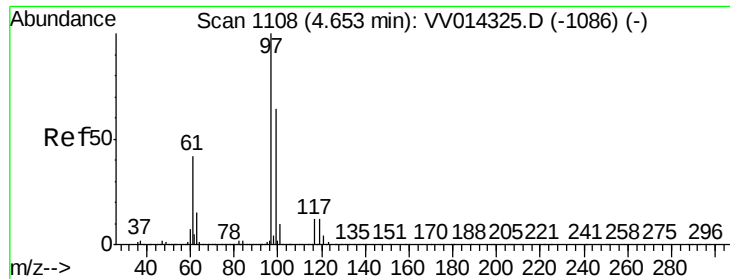
100000

50000

0

Time--> 5.10 5.20 5.30

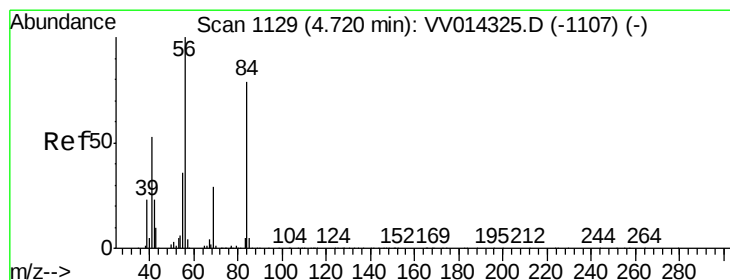
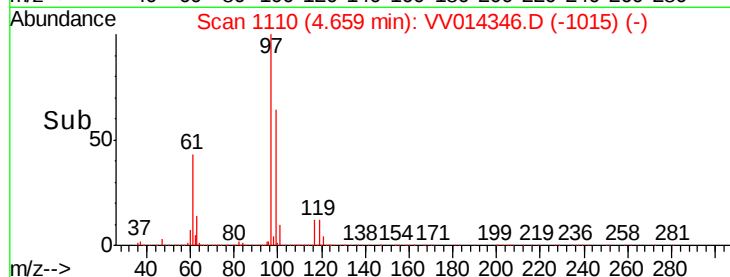
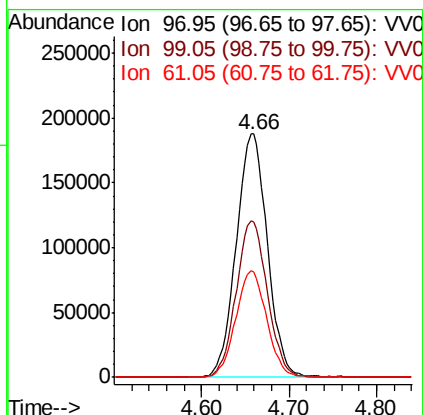
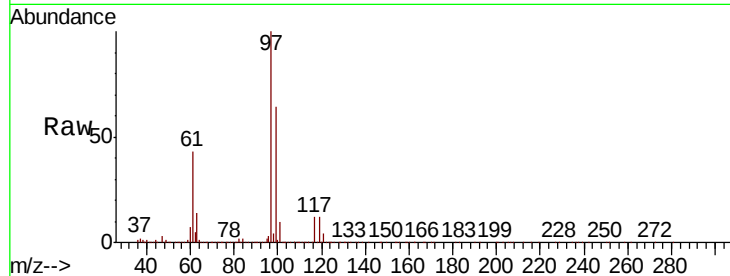




#29
 1,1,1-Trichloroethane
 Concen: 5.464 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. 0.01 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

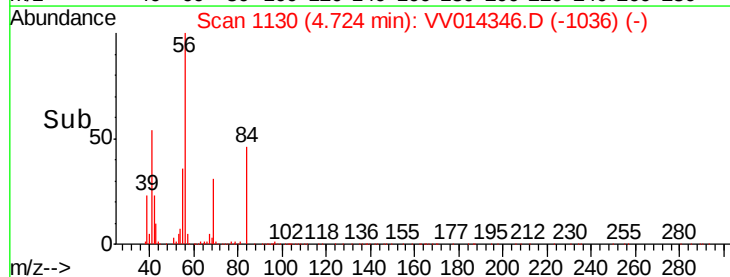
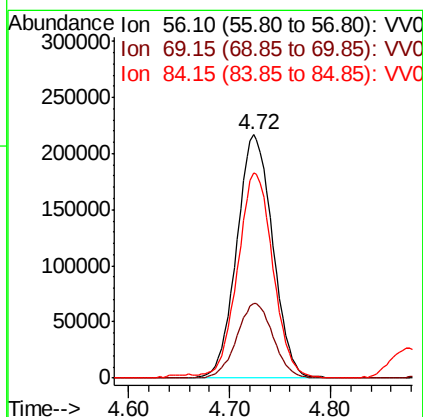
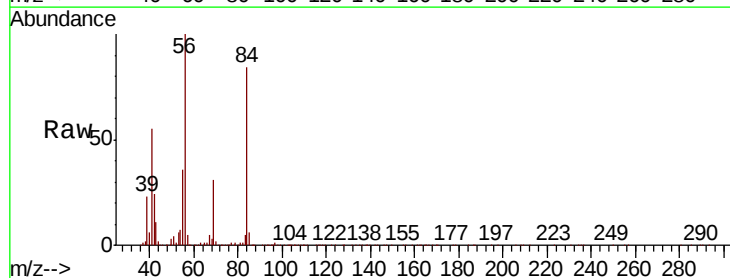
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00539

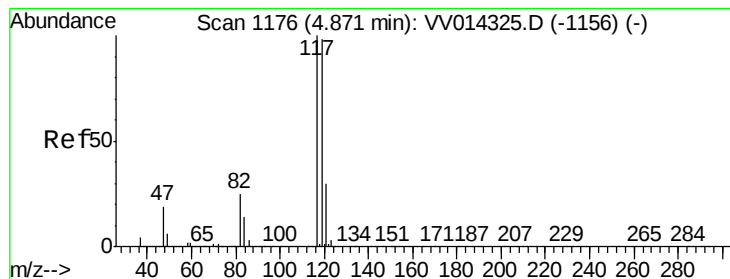
Tot Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	43.8	33.9	50.9



#30
 Cyclohexane
 Concen: 5.685 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.2	23.9	35.9
84	82.8	68.9	103.3





#31

Carbon tetrachloride

Concen: 5.403 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

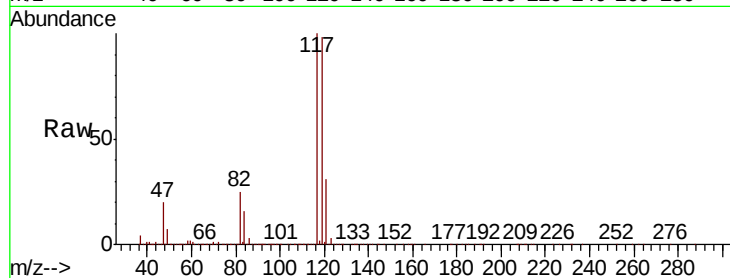
VSTD00539

Tot Ion:117 Resp: 392147

Ion Ratio Lower Upper

117 100

119 94.3 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

150000

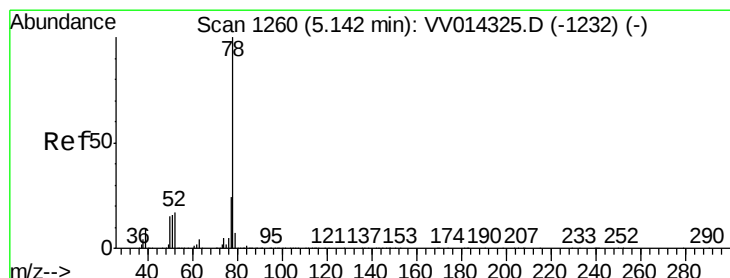
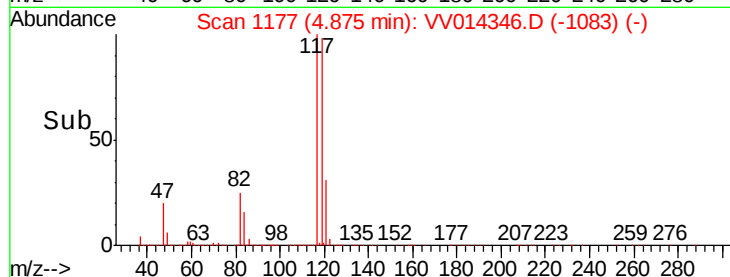
100000

50000

0

Time-->

4.80 4.90 5.00



#33

Benzene

Concen: 5.514 ug/L

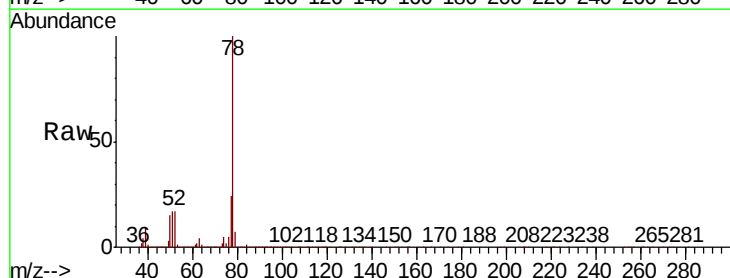
RT: 5.15 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Tgt Ion: 78 Resp: 1209084



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.15

600000

500000

400000

300000

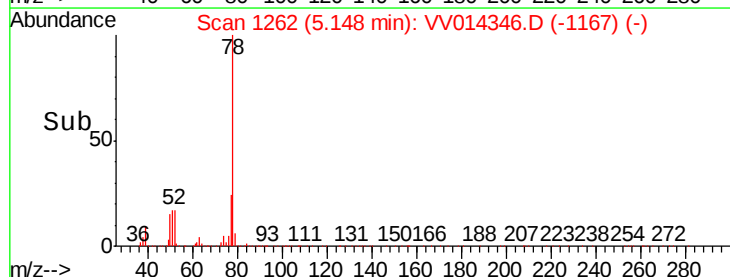
200000

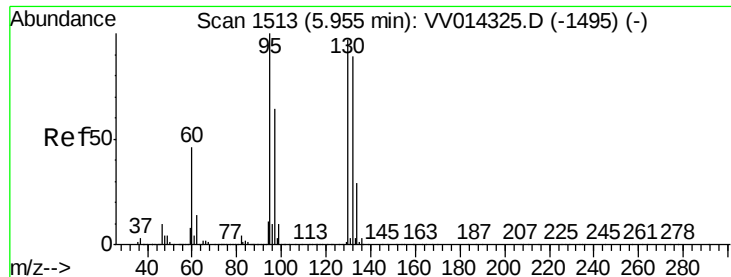
100000

0

Time-->

5.00 5.10 5.20 5.30





#34

Trichloroethene

Concen: 5.708 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

VSTD00539

Tot Ion: 95 Resp: 321615

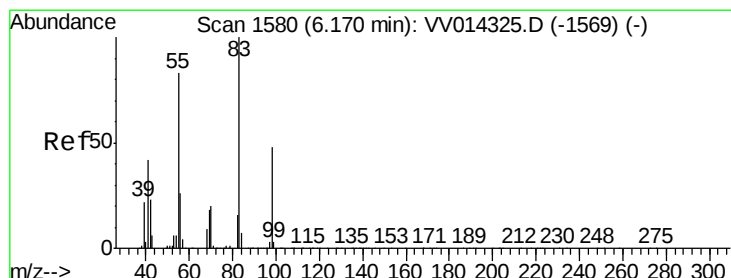
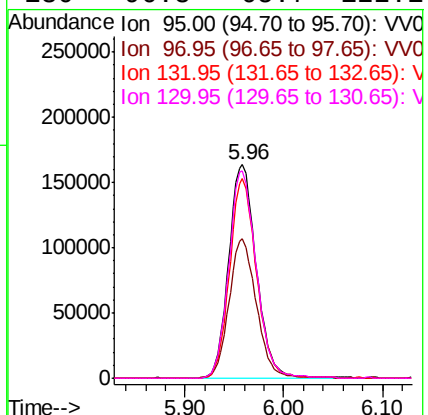
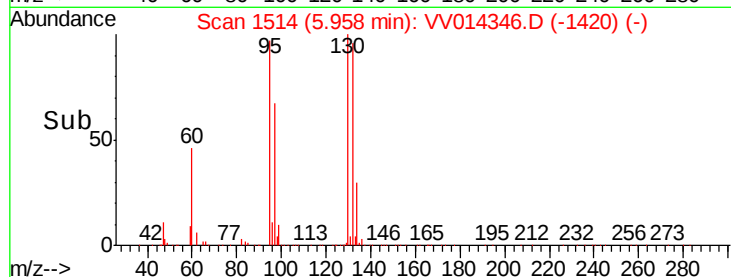
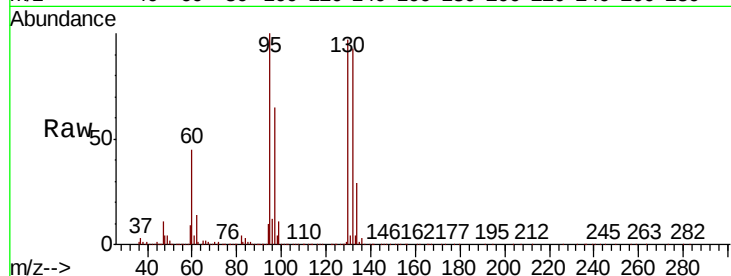
Ion Ratio Lower Upper

95 100

97 65.2 43.8 81.3

132 93.2 63.4 117.8

130 96.8 65.7 122.1



#35

Methylcyclohexane

Concen: 5.676 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

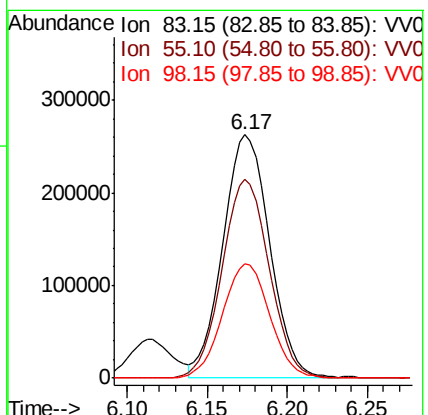
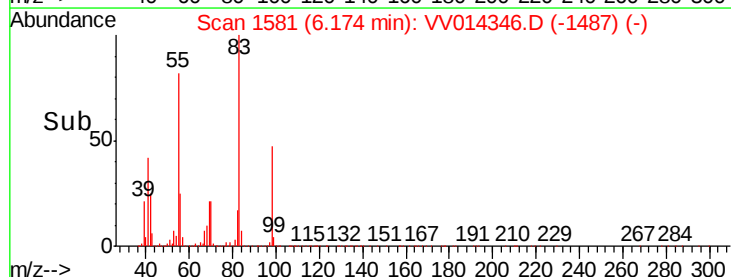
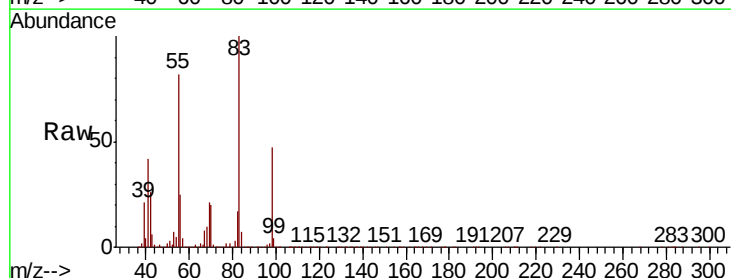
Tgt Ion: 83 Resp: 522884

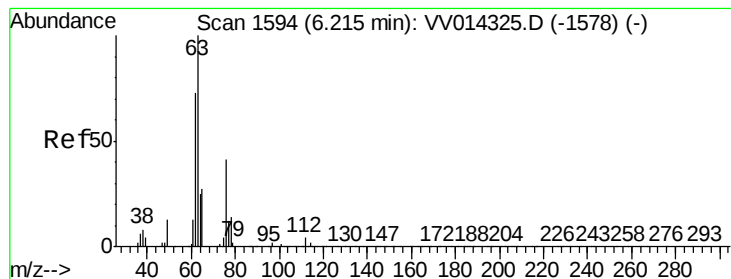
Ion Ratio Lower Upper

83 100

55 82.3 61.7 92.5

98 48.0 38.1 57.1





#37

1,2-Dichloropropane

Concen: 5.435 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

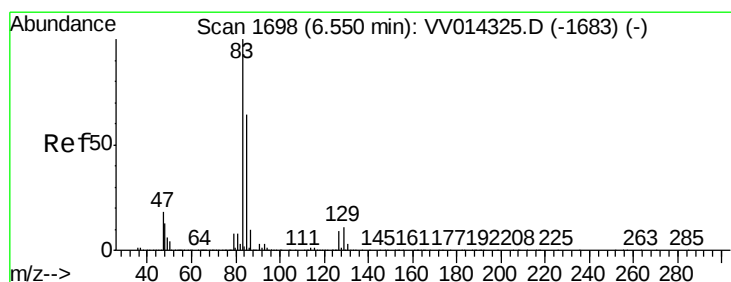
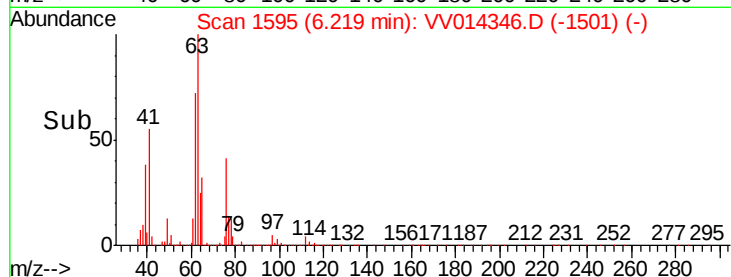
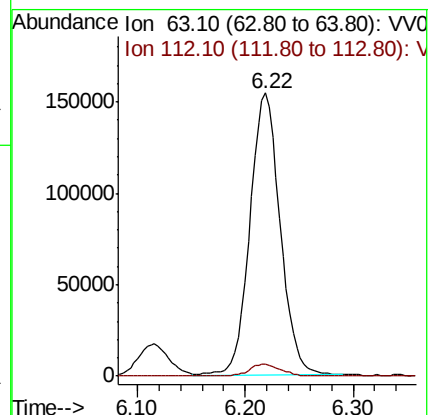
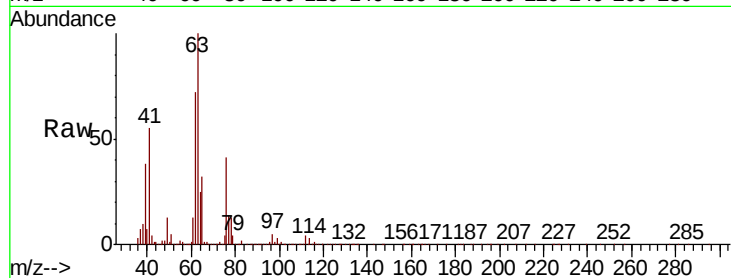
VSTD00539

Tot Ion: 63 Resp: 300786

Ion Ratio Lower Upper

63 100

112 4.5 3.7 5.5



#38

Bromodichloromethane

Concen: 5.235 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

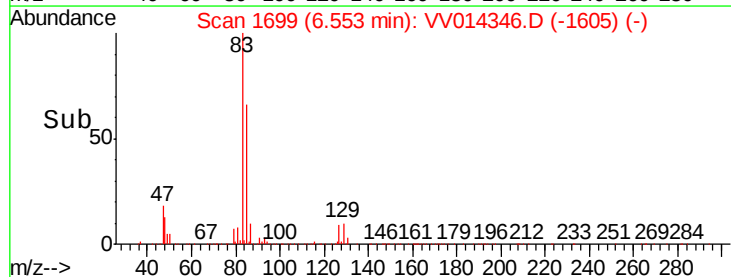
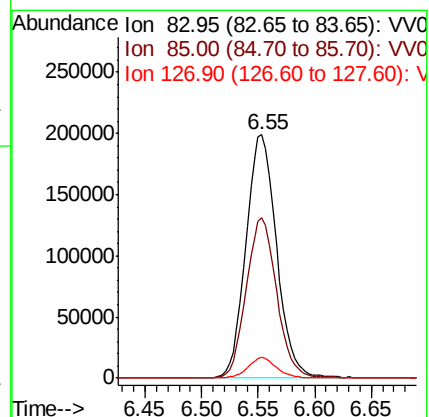
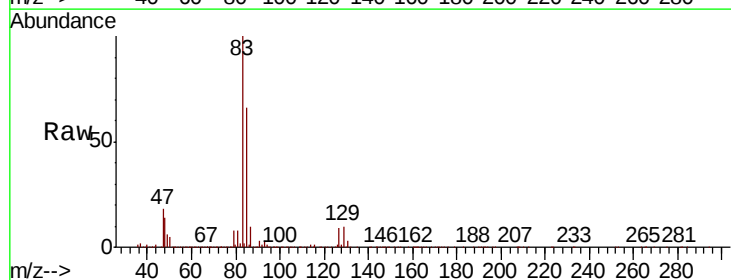
Tgt Ion: 83 Resp: 373622

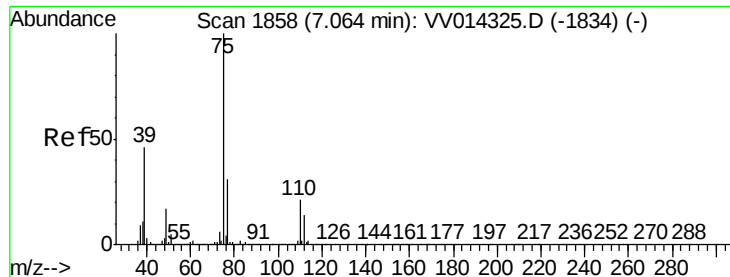
Ion Ratio Lower Upper

83 100

85 66.1 46.4 86.2

127 8.6 6.3 9.5

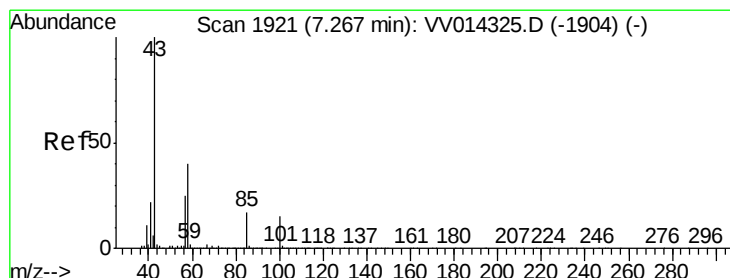
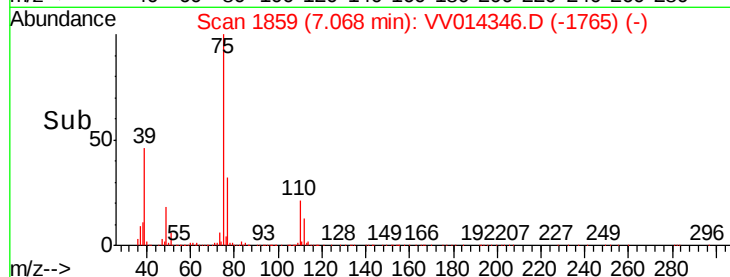
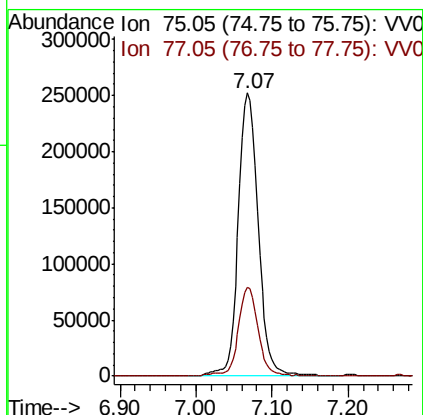
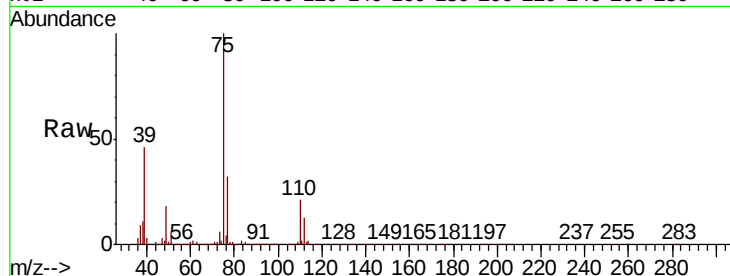




#39
 cis-1,3-Dichloropropene
 Concen: 5.130 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

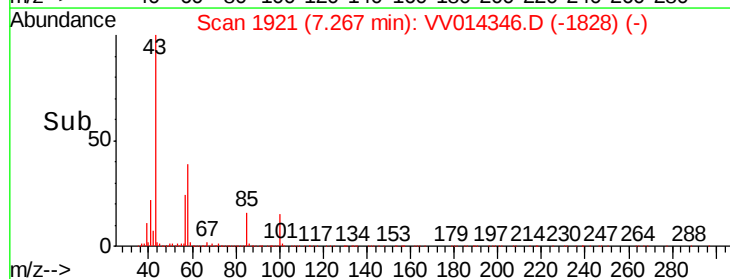
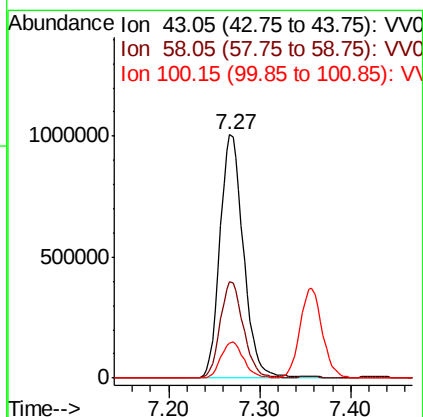
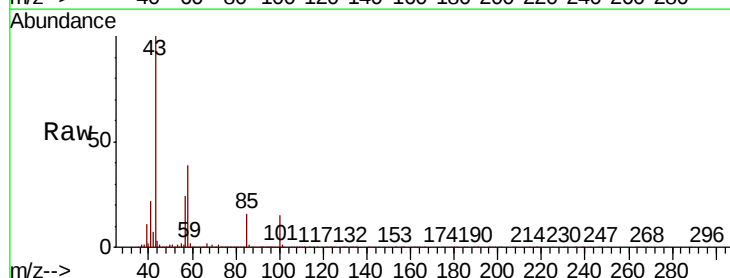
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00539

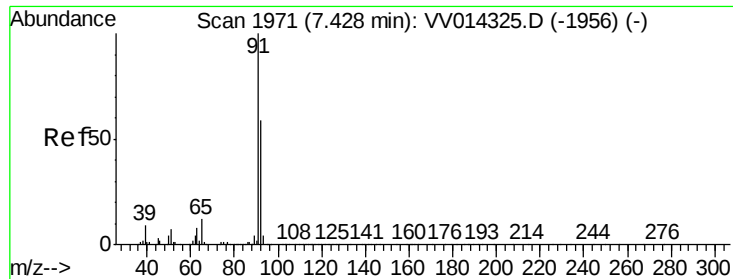
Tot Ion: 75 Resp: 459678
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 52.010 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

Tgt Ion: 43 Resp: 1814514
 Ion Ratio Lower Upper
 43 100
 58 39.2 31.5 47.3
 100 14.4 12.2 18.2





#42

Toluene

Concen: 5.518 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

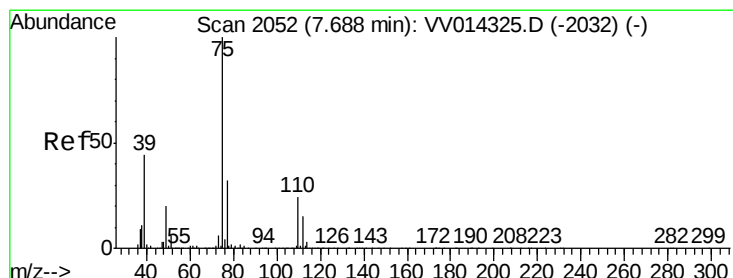
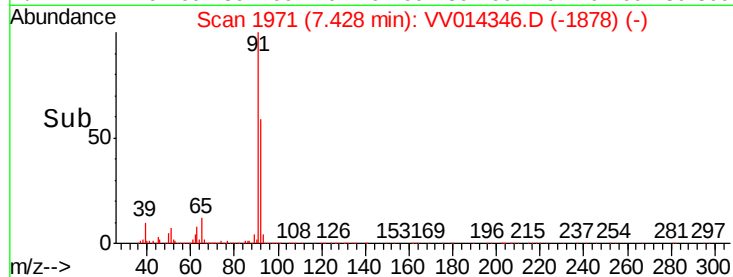
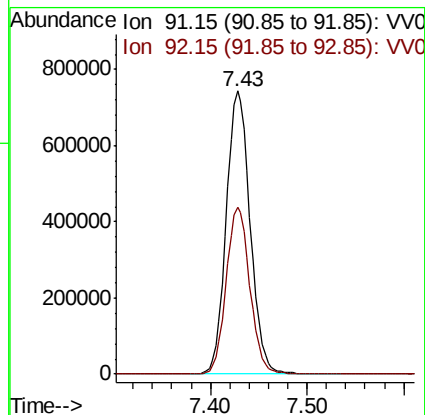
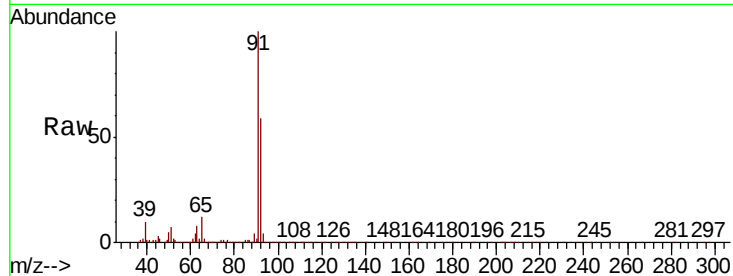
VSTD00539

Tot Ion: 91 Resp: 1277200

Ion Ratio Lower Upper

91 100

92 59.2 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 4.965 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014346.D

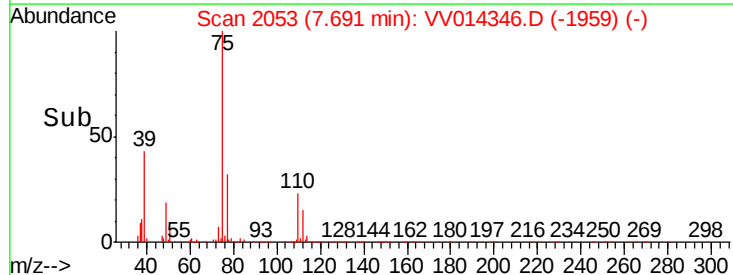
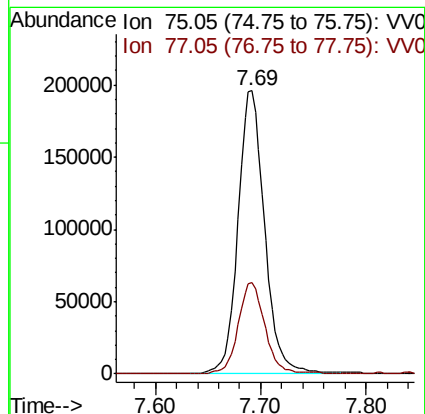
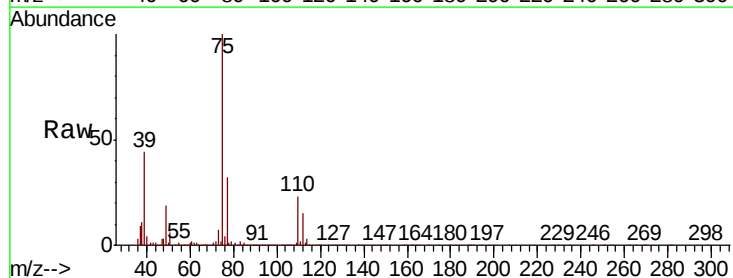
Acq: 17 Jan 2020 19:12

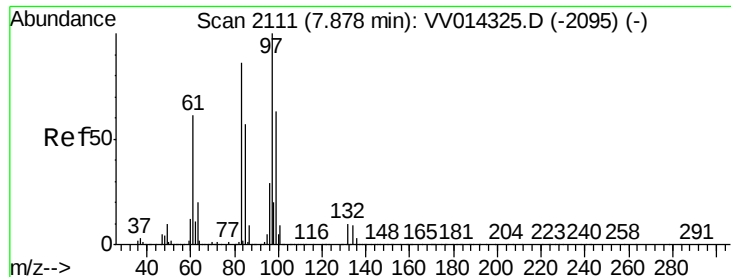
Tgt Ion: 75 Resp: 341611

Ion Ratio Lower Upper

75 100

77 32.1 22.0 41.0

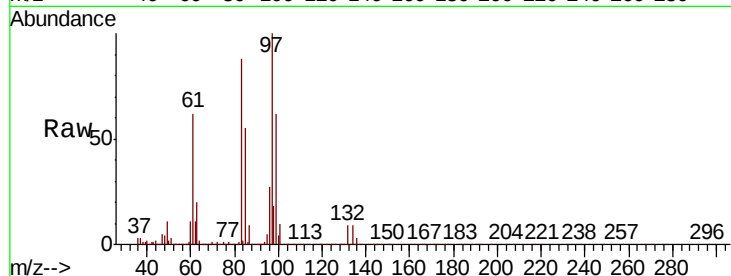




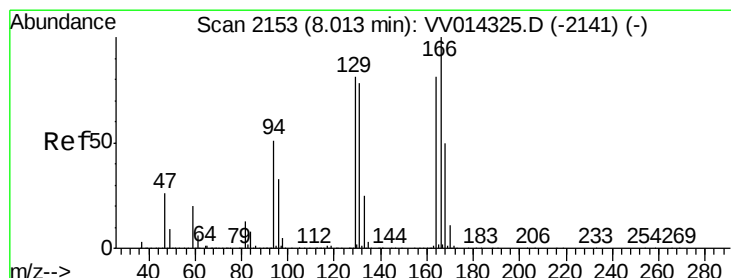
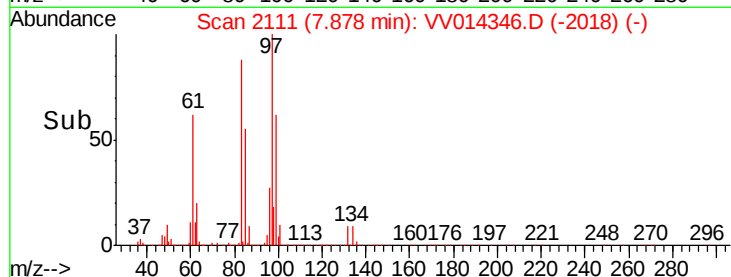
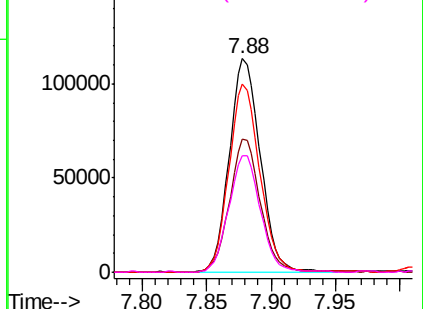
#45
1,1,2-Trichloroethane
Concen: 5.337 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

Tot Ion:	97	Resp:	188675
Ion	Ratio	Lower	Upper
97	100		
99	62.1	43.7	81.1
83	88.0	60.0	111.4
85	54.7	39.2	72.8

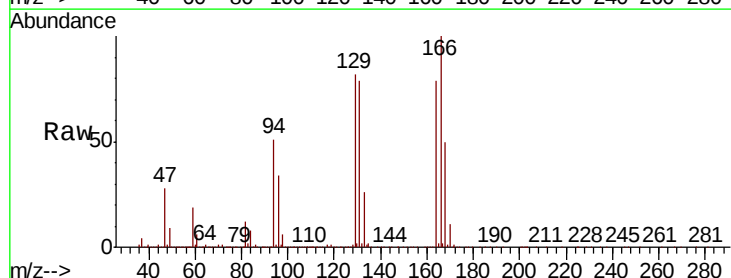


Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0

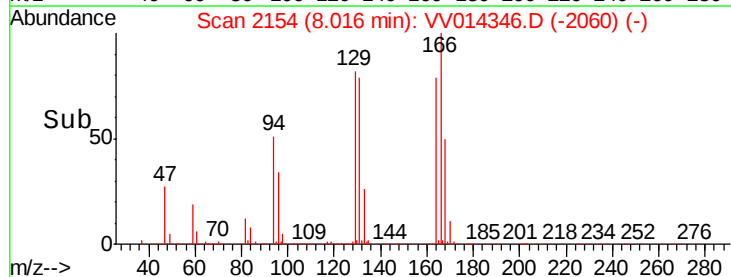
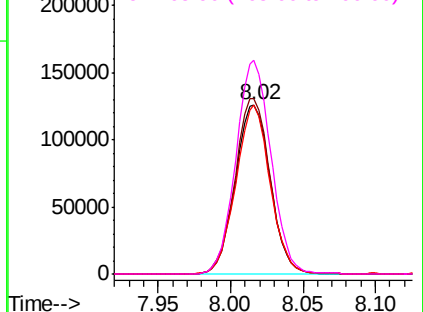


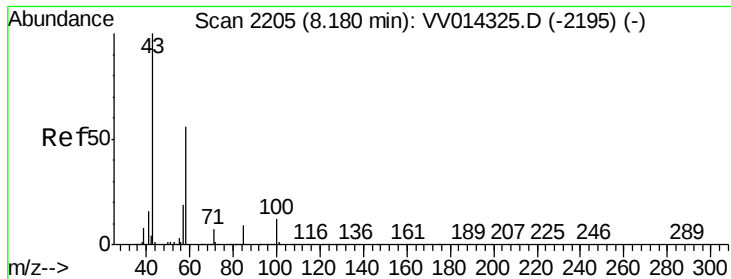
#47
Tetrachloroethene
Concen: 5.492 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

Tgt Ion:	164	Resp:	211398
Ion	Ratio	Lower	Upper
164	100		
129	103.8	71.7	133.3
131	99.9	70.4	130.8
166	126.1	90.3	167.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V



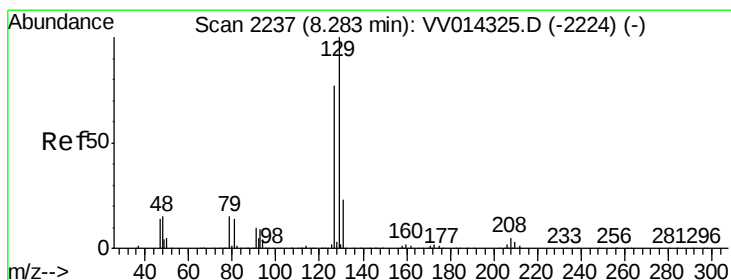
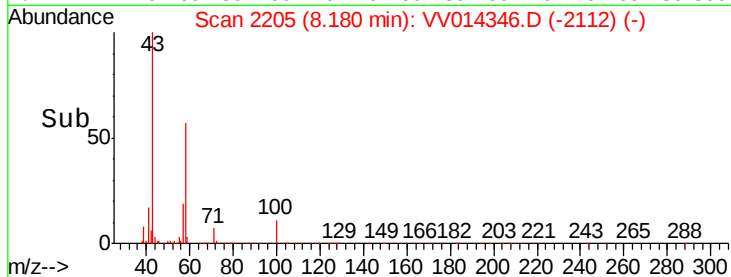
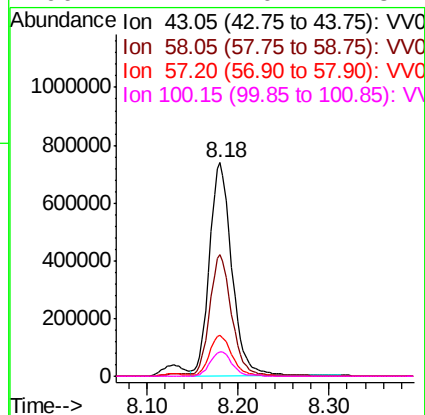
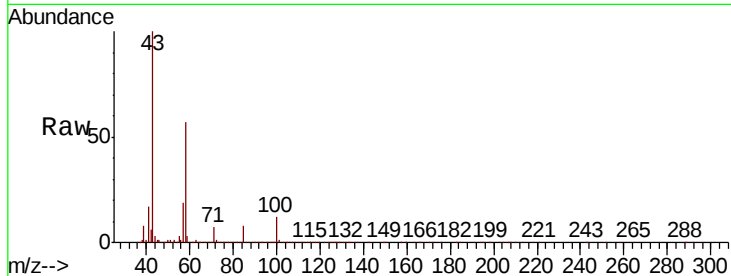


#48
2-Hexanone
Concen: 52.445 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

Tot Ion: 43 Resp: 1265543

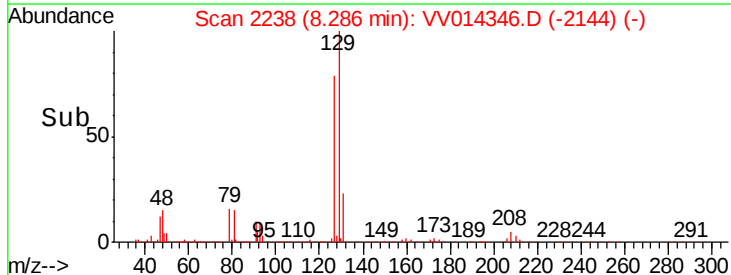
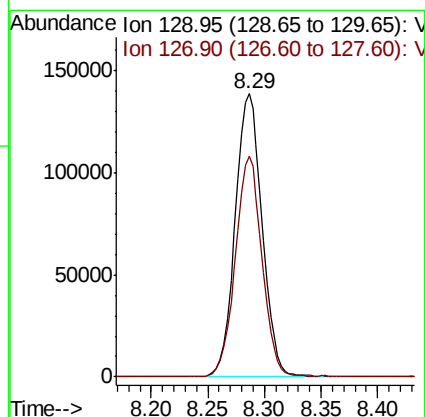
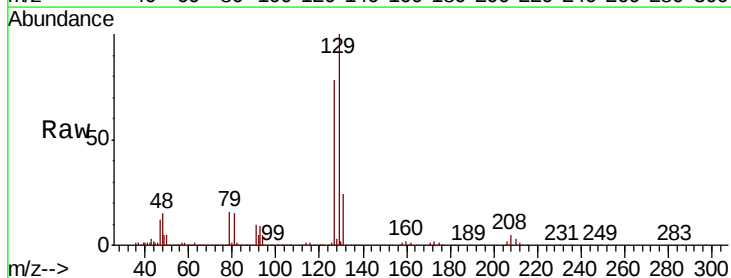
Ion	Ratio	Lower	Upper
43	100		
58	55.8	45.4	68.0
57	18.9	15.8	23.8
100	11.7	10.2	15.4

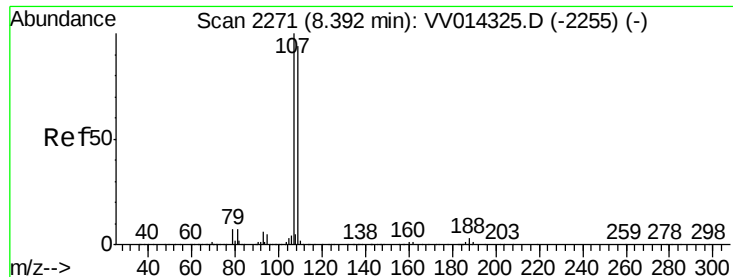


#49
Dibromochloromethane
Concen: 5.156 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

Tgt Ion: 129 Resp: 230450

Ion	Ratio	Lower	Upper
129	100		
127	78.2	55.7	103.5

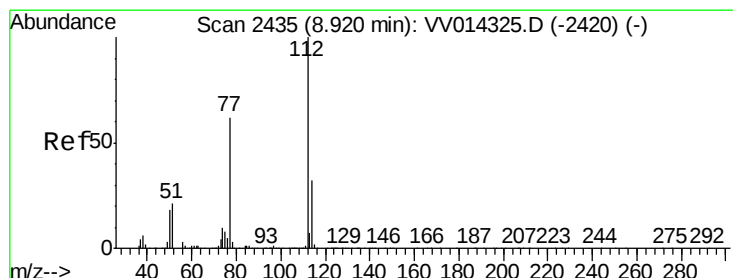
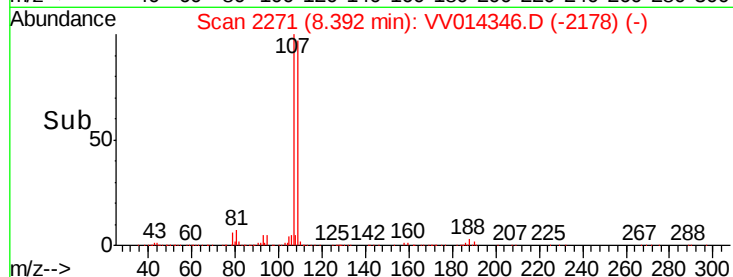
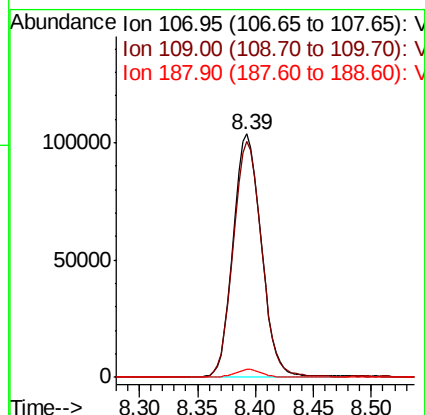
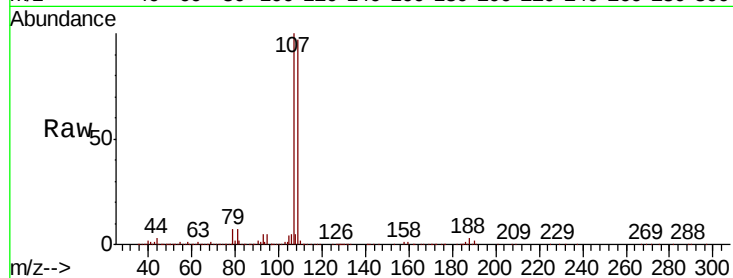




#50
1,2-Dibromoethane
Concen: 5.067 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

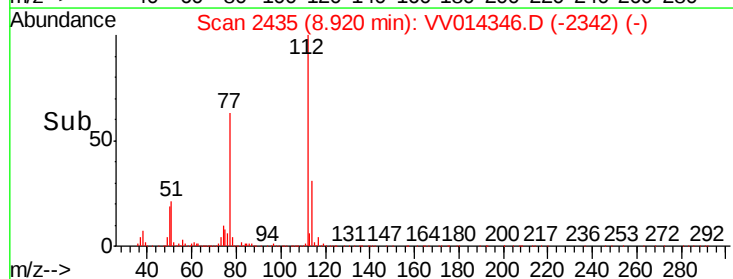
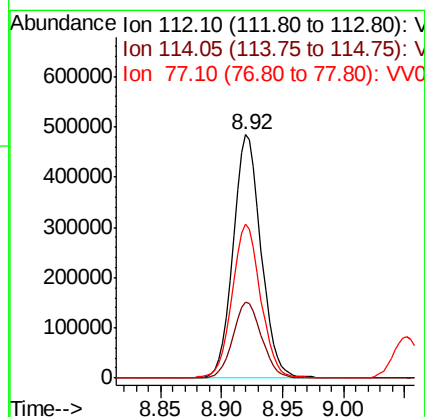
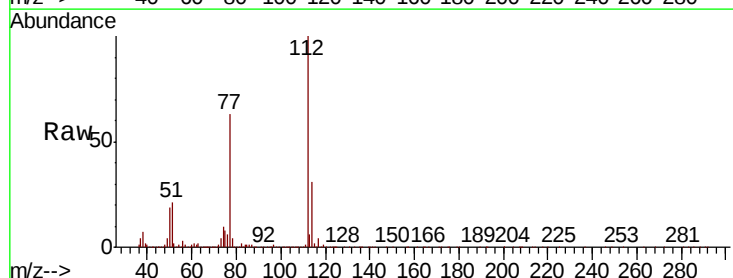
Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

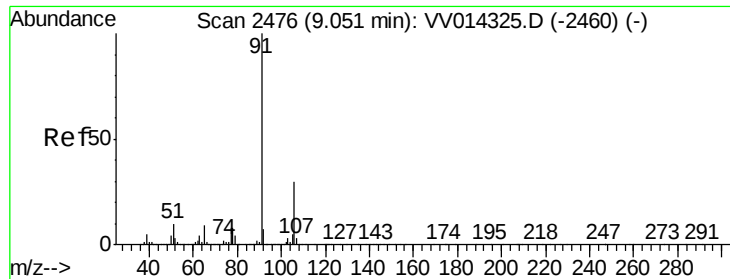
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.7	63.0	117.0
188	3.2	3.0	4.4



#51
Chlorobenzene
Concen: 5.432 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV014346.D
Acq: 17 Jan 2020 19:12

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.1	22.5	41.7
77	63.1	49.3	73.9





#52

Ethylbenzene

Concen: 5.628 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

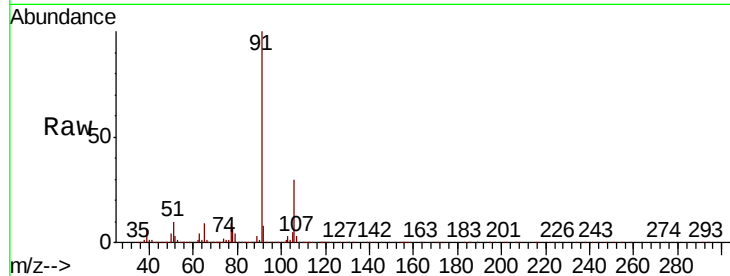
VSTD00539

Tot Ion: 91 Resp: 1457194

Ion Ratio Lower Upper

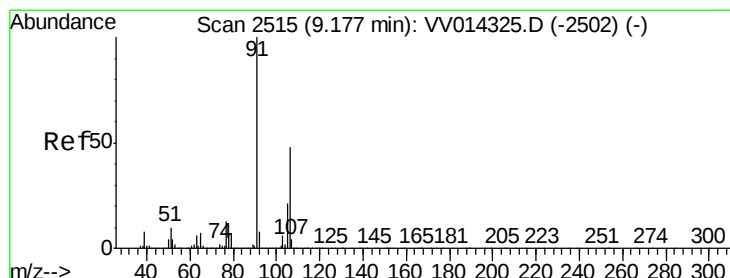
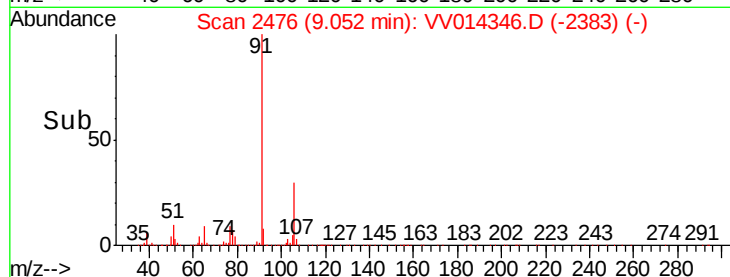
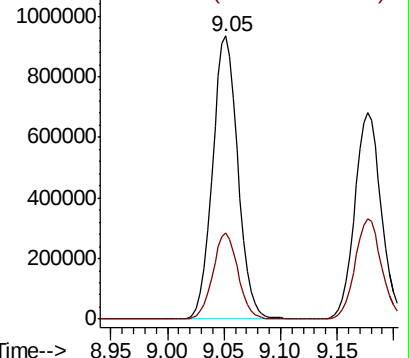
91 100

106 30.3 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V



#53

m,p-xylene

Concen: 5.615 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014346.D

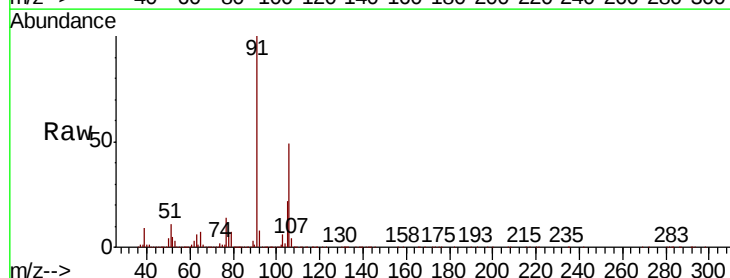
Acq: 17 Jan 2020 19:12

Tgt Ion: 106 Resp: 536340

Ion Ratio Lower Upper

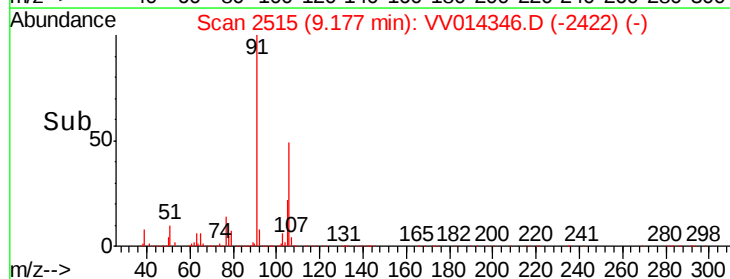
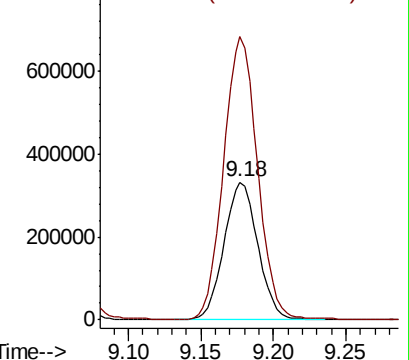
106 100

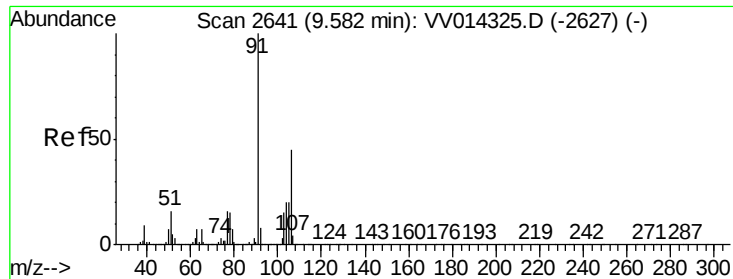
91 205.2 146.8 272.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#54

o-xylene

Concen: 5.490 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

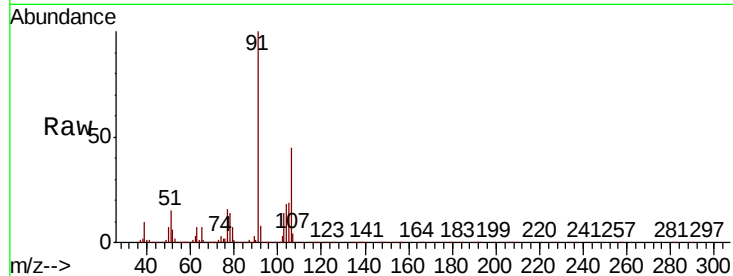
VSTD00539

Tot Ion:106 Resp: 515758

Ion Ratio Lower Upper

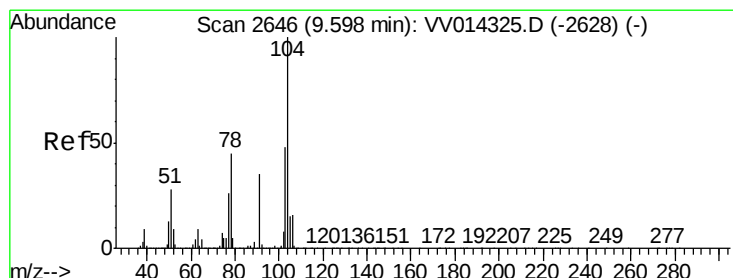
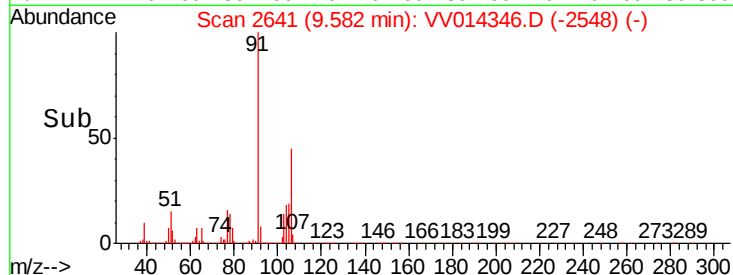
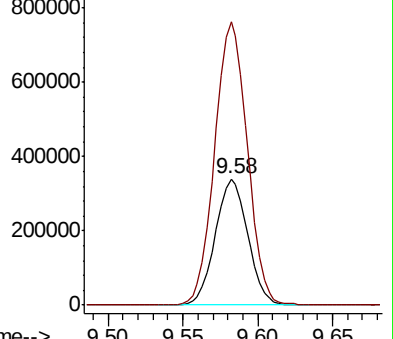
106 100

91 224.3 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.442 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014346.D

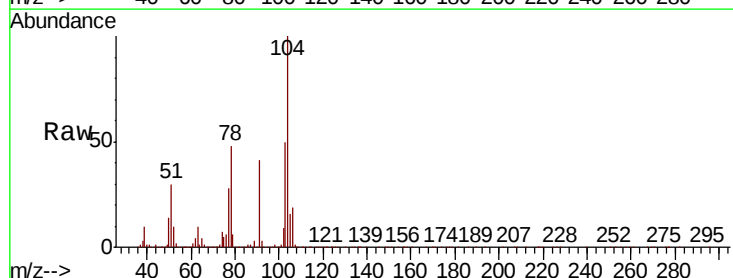
Acq: 17 Jan 2020 19:12

Tgt Ion:104 Resp: 865940

Ion Ratio Lower Upper

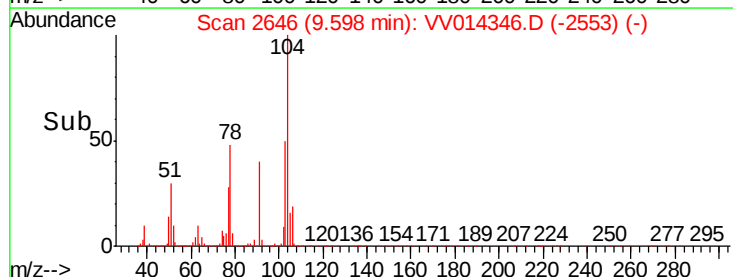
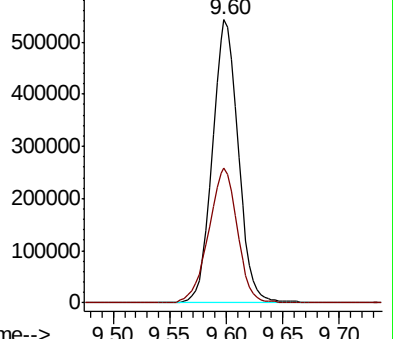
104 100

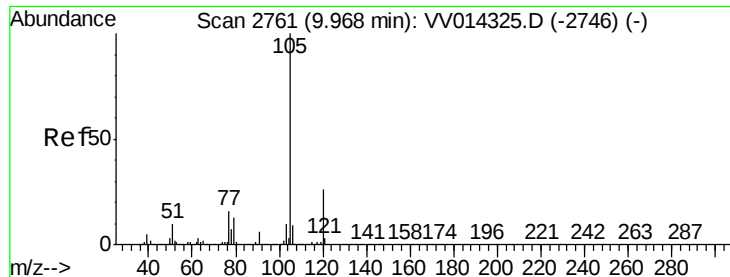
78 47.9 31.7 58.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.694 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

VSTD00539

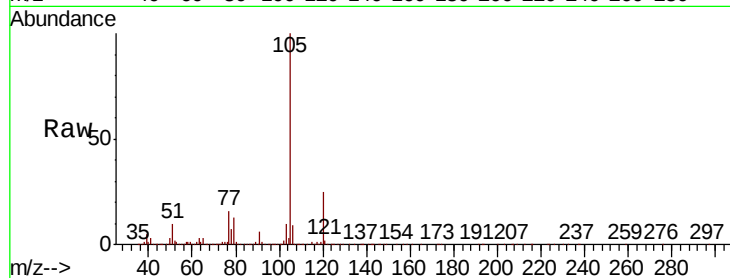
Tot Ion:105 Resp: 1395145

Ion Ratio Lower Upper

105 100

120 25.8 21.0 31.4

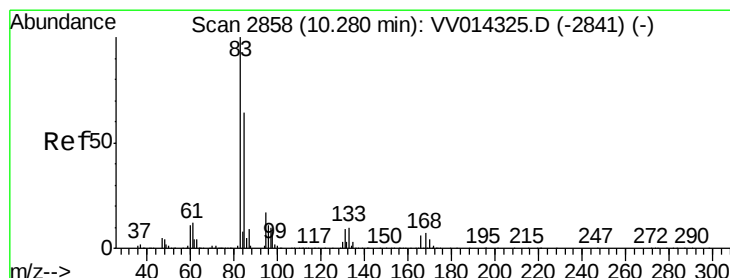
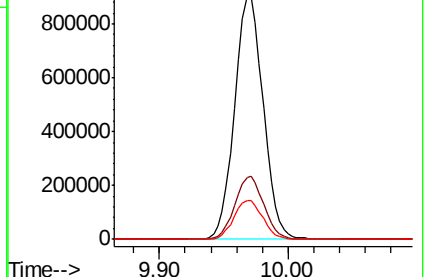
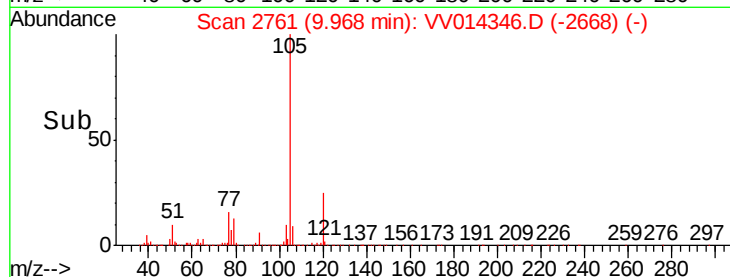
77 16.2 12.5 18.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.021 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

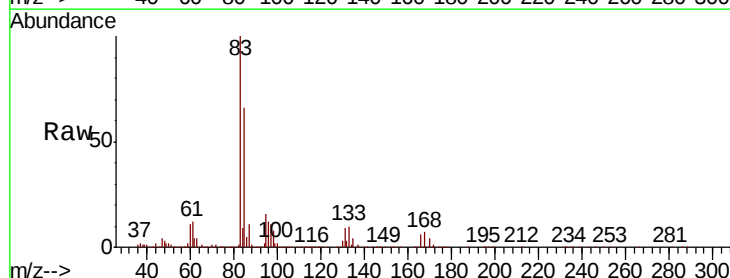
Tgt Ion: 83 Resp: 218904

Ion Ratio Lower Upper

83 100

85 65.7 45.9 85.3

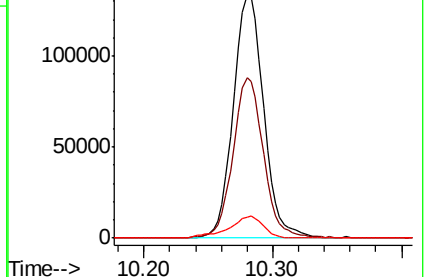
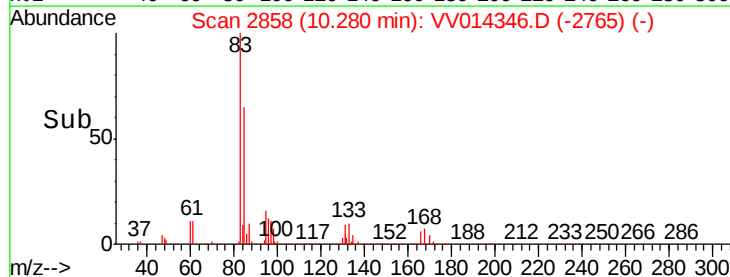
131 8.7 7.8 11.8

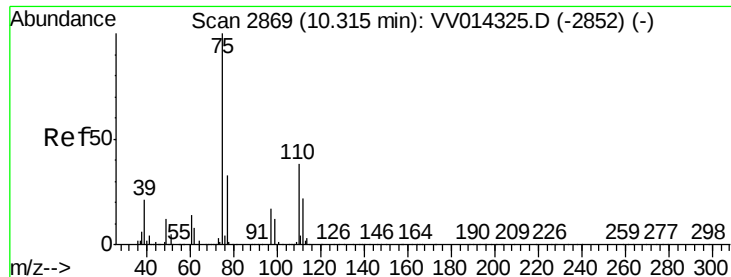


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.204 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampleId :

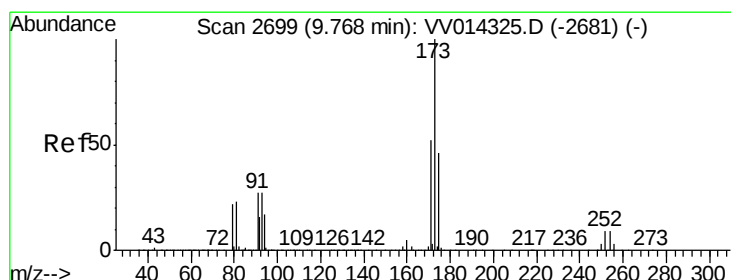
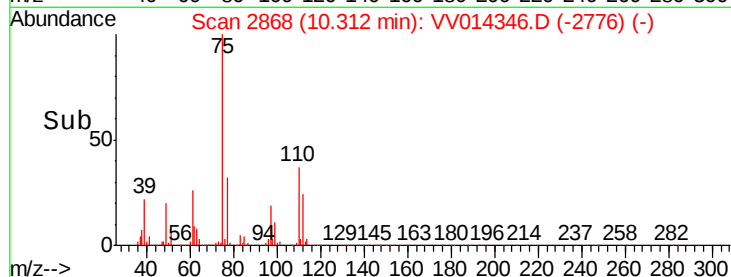
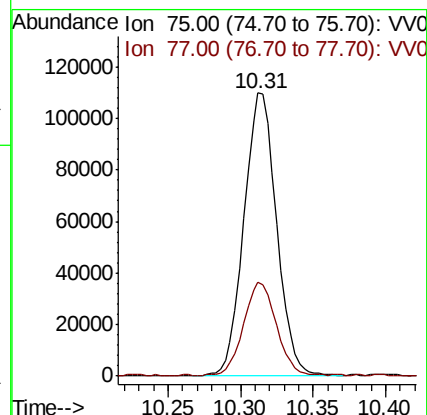
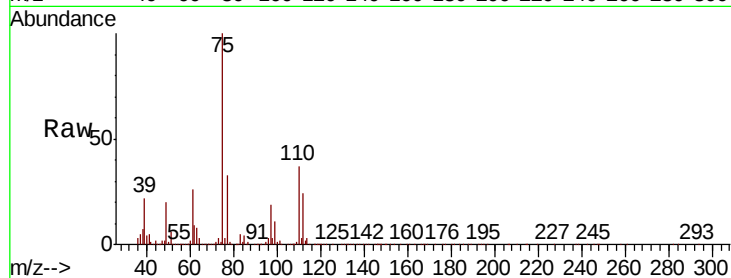
VSTD00539

Tot Ion: 75 Resp: 171619

Ion Ratio Lower Upper

75 100

77 32.6 25.7 38.5



#61

Bromoform

Concen: 4.855 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

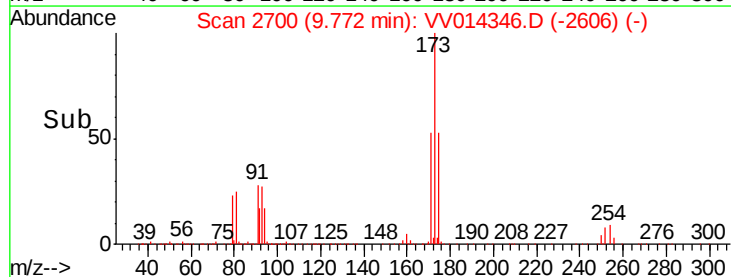
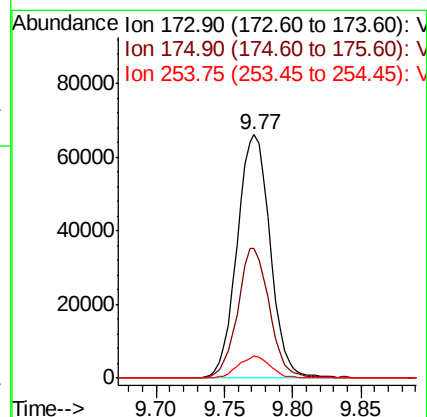
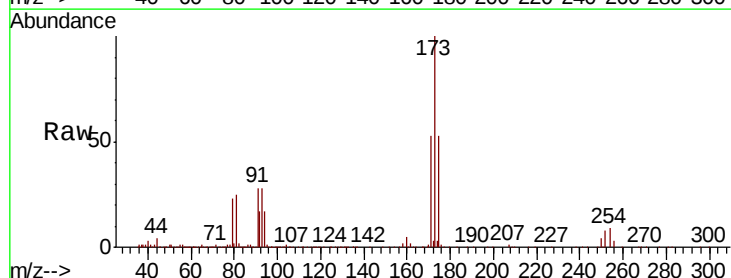
Tgt Ion: 173 Resp: 111359

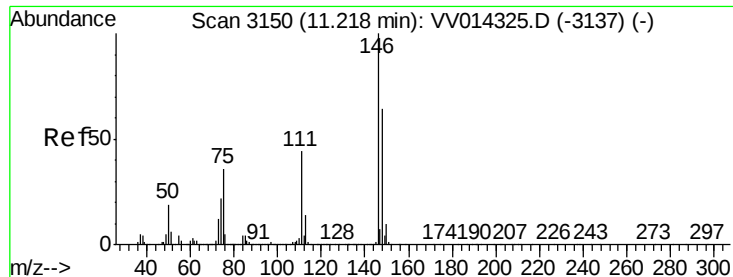
Ion Ratio Lower Upper

173 100

175 51.2 37.9 56.9

254 8.9 7.6 11.4

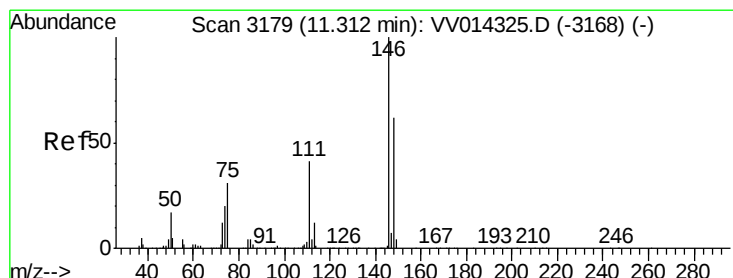
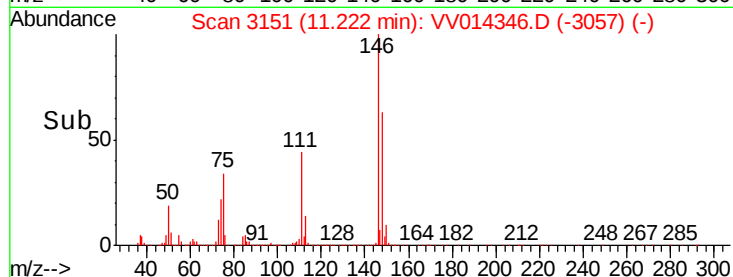
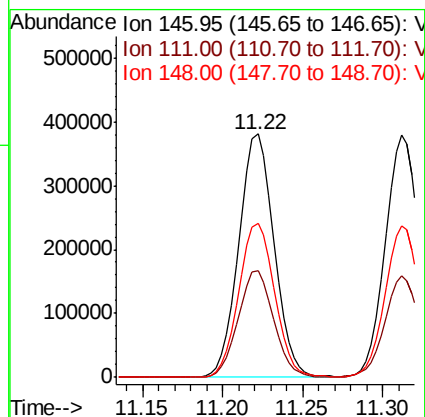
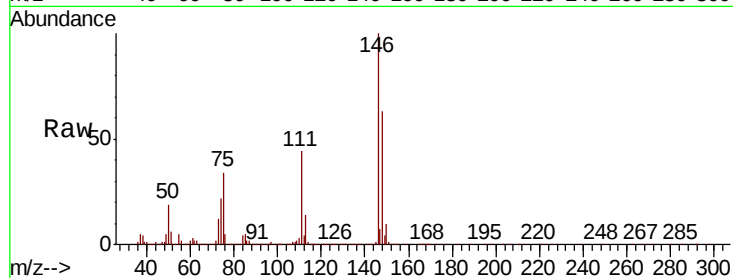




#62
 1,3-Dichlorobenzene
 Concen: 5.406 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

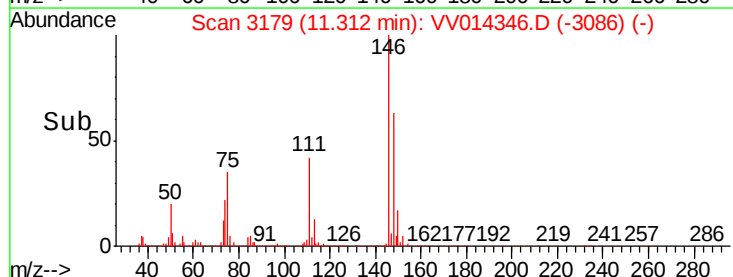
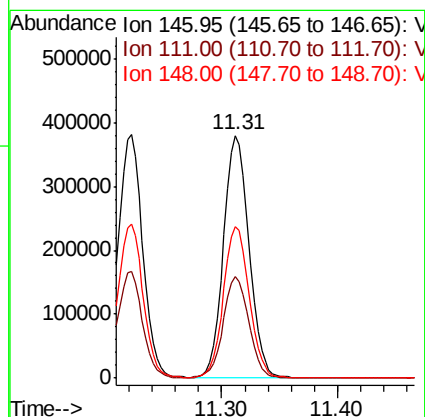
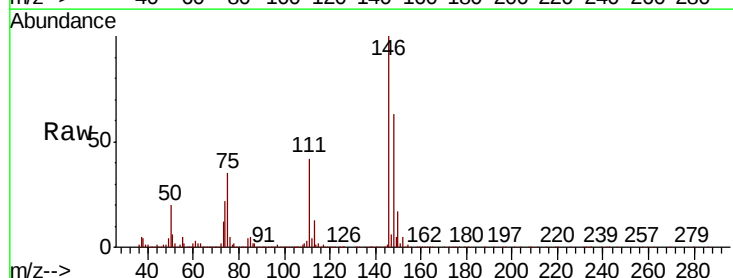
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00539

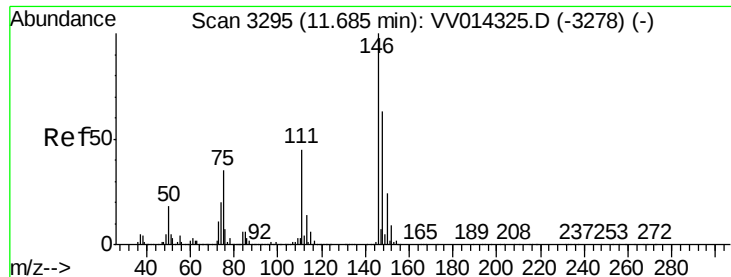
Tot Ion:146 Resp: 571932
 Ion Ratio Lower Upper
 146 100
 111 43.8 30.7 57.1
 148 63.3 44.4 82.5



#63
 1,4-Dichlorobenzene
 Concen: 5.493 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

Tgt Ion:146 Resp: 577789
 Ion Ratio Lower Upper
 146 100
 111 41.7 28.8 53.4
 148 62.7 44.5 82.7

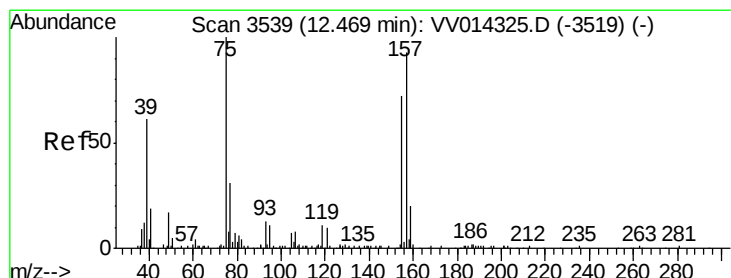
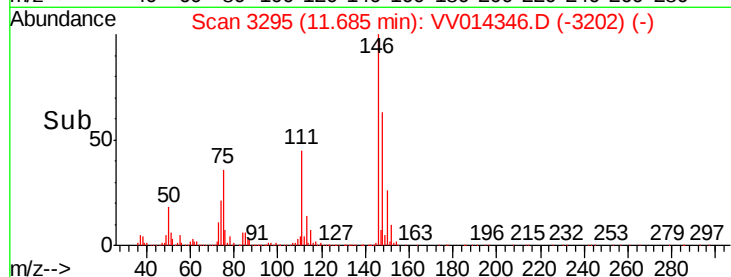
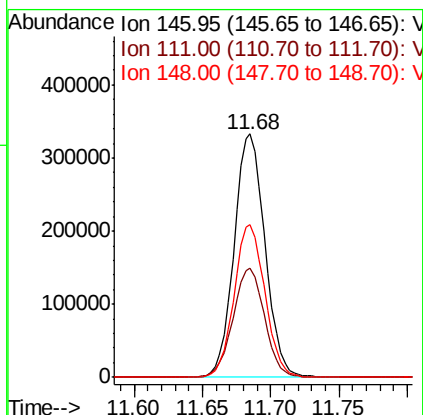
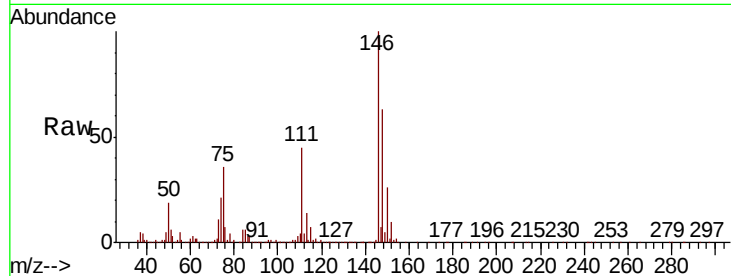




#65
 1,2-Dichlorobenzene
 Concen: 5.454 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

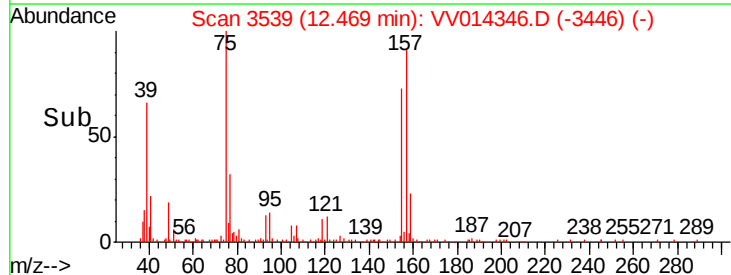
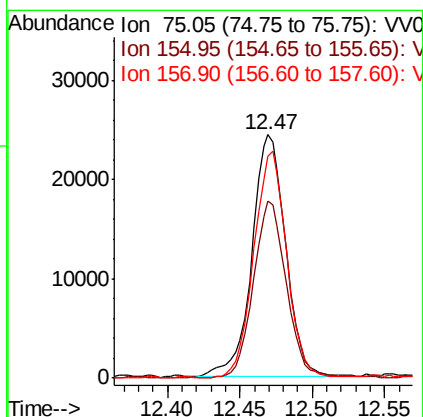
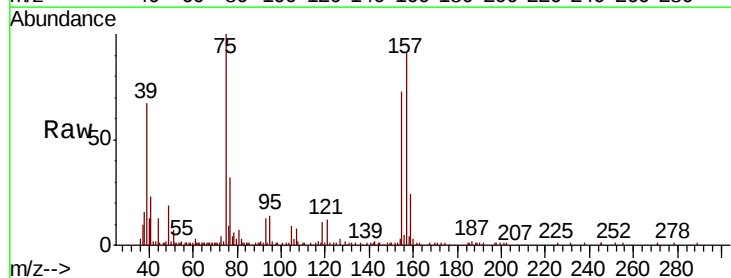
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00539

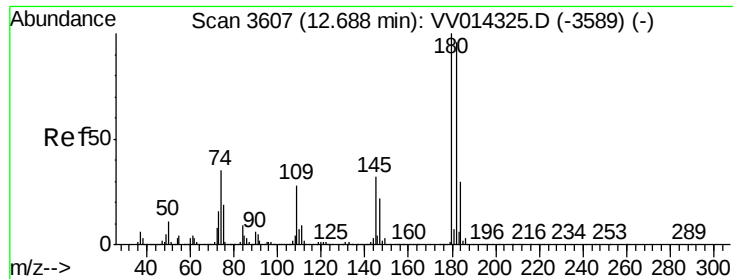
Tot Ion	Ratio	Lower	Upper
146	100		
111	44.6	36.4	54.6
148	62.8	51.3	76.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.459 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.8	56.9	85.3
157	91.2	82.0	123.0

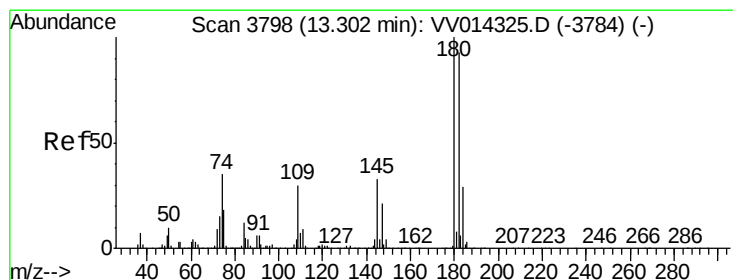
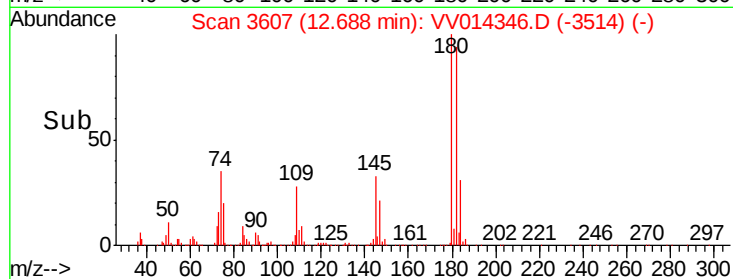
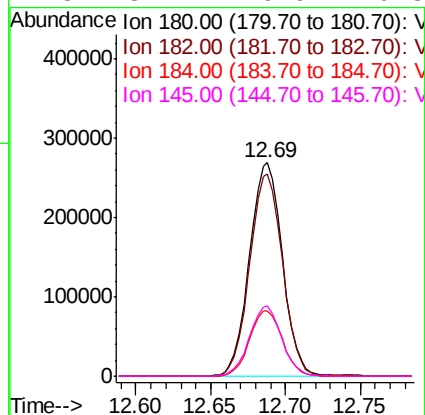
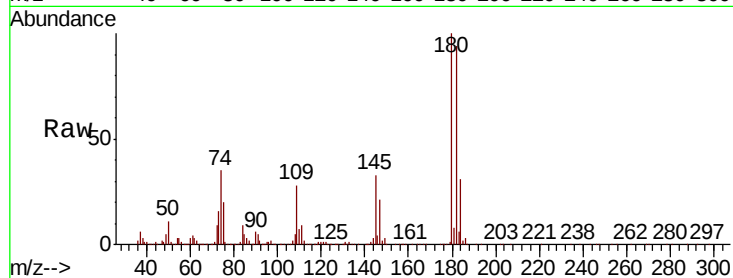




#67
 1,3,5-Trichlorobenzene
 Concen: 5.348 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

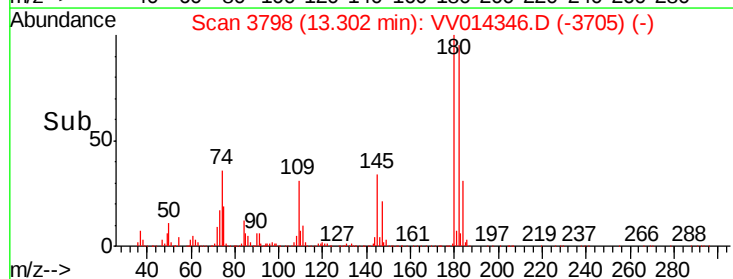
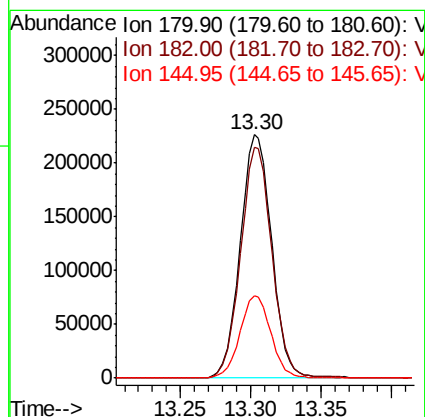
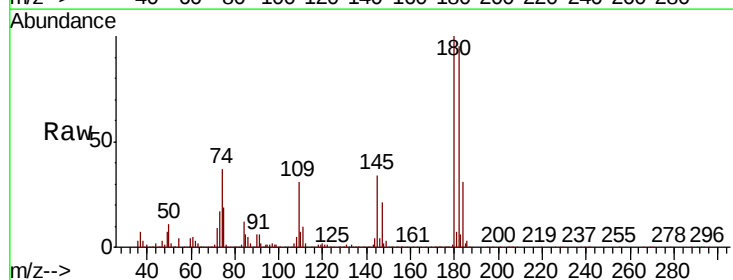
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00539

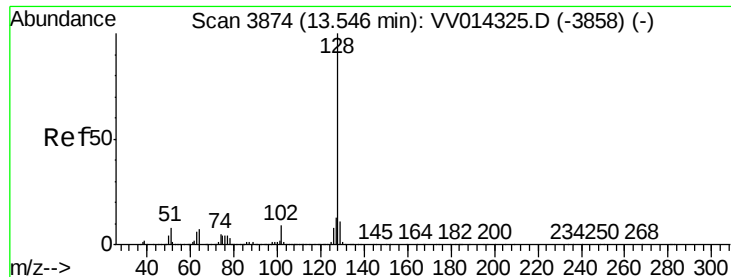
Tot Ion:	180	Resp:	411407
Ion	Ratio	Lower	Upper
180	100		
182	94.8	77.2	115.8
184	30.9	24.6	36.8
145	32.1	26.9	40.3



#68
 1,2,4-trichlorobenzene
 Concen: 5.245 ug/L
 RT: 13.30 min Scan# 3798
 Delta R.T. 0.00 min
 Lab File: VV014346.D
 Acq: 17 Jan 2020 19:12

Tgt Ion:	180	Resp:	353880
Ion	Ratio	Lower	Upper
180	100		
182	94.6	75.2	112.8
145	33.3	26.2	39.4





#69

Naphthalene

Concen: 4.857 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

Instrument :

MSVOA_V

ClientSampled :

VSTD00539

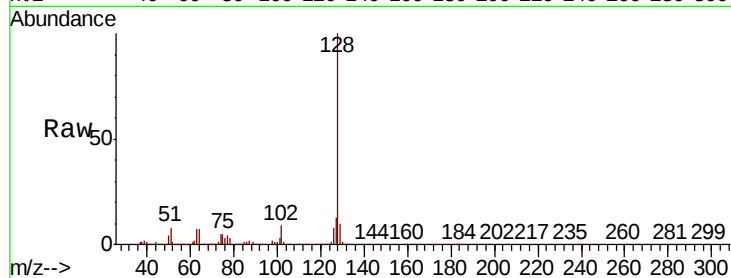
Tot Ion:128 Resp: 665783

Ion Ratio Lower Upper

128 100

129 10.7 8.6 13.0

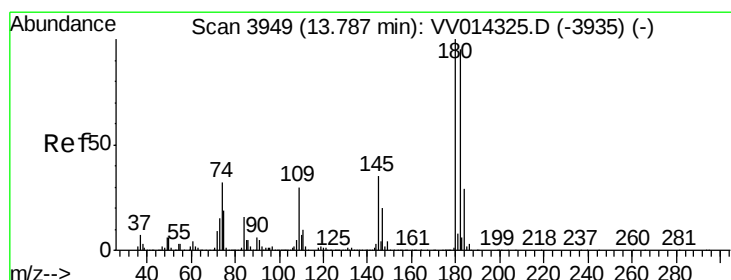
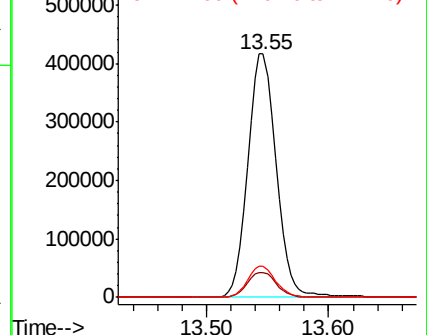
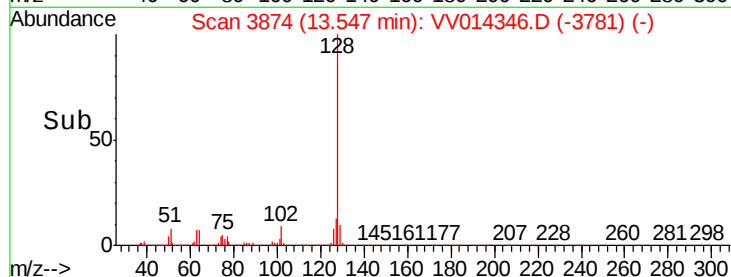
127 12.7 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.296 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014346.D

Acq: 17 Jan 2020 19:12

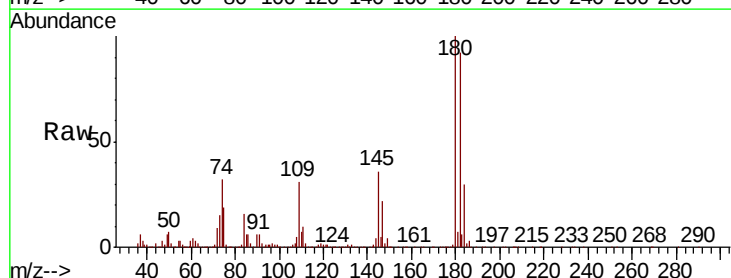
Tgt Ion:180 Resp: 314421

Ion Ratio Lower Upper

180 100

182 93.3 74.8 112.2

145 35.6 29.0 43.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

