

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV081619\
 Data File : VV012273.D
 Acq On : 16 Aug 2019 16:53
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

Quant Time: Aug 17 01:06:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR081319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 16 23:35:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	215410	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	224531	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	115315	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	65669	4.95	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	99.00%
7) Chloroethane-d5	1.58	69	56962	5.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	112.40%
11) 1,1-Dichloroethene-d2	2.13	63	91617	4.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.40%
20) 2-Butanone-d5	3.96	46	138150	48.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.40%
24) Chloroform-d	4.40	84	134575	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.40%
26) 1,2-Dichloroethane-d4	5.08	65	63186	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%
32) Benzene-d6	5.09	84	270304	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.11	67	79751	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.20%
41) Toluene-d8	7.36	98	260296	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
43) trans-1,3-Dichloropropene-	7.66	79	31849	4.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.40%
46) 2-Hexanone-d5	8.14	63	111582	54.28	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.56%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	64323	5.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	99872	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	102442	4.955 ug/L	100
3) Chloromethane	1.25	50	90191	4.817 ug/L	100
5) Vinyl chloride	1.32	62	94816	4.929 ug/L	99
6) Bromomethane	1.53	94	47685	4.386 ug/L	98
8) Chloroethane	1.60	64	54107	4.876 ug/L	96
9) Trichlorofluoromethane	1.77	101	108605	4.488 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	50599	4.135 ug/L	97
12) 1,1-Dichloroethene	2.14	96	44556	3.932 ug/L	96
13) Acetone	2.23	43	73045	40.894 ug/L	92
14) Carbon disulfide	2.32	76	123034	3.707 ug/L	99
15) Methyl Acetate	2.47	43	15333	3.400 ug/L	99
16) Methylene chloride	2.53	84	45763	3.745 ug/L	95
17) Methyl tert-butyl Ether	2.81	73	135255	4.333 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	64825	4.288 ug/L	99
19) 1,1-Dichloroethane	3.22	63	119353	4.311 ug/L	98
21) 2-Butanone	4.05	43	149922	41.048 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	71078	4.258 ug/L	99

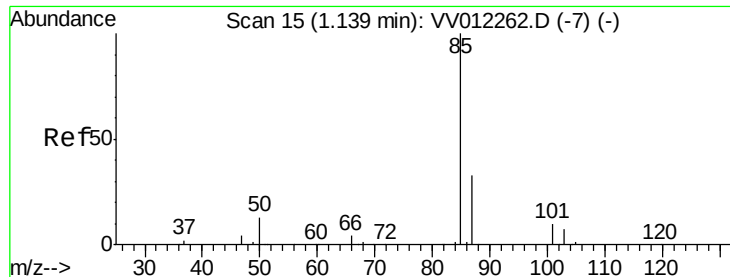
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV081619\
 Data File : VV012273.D
 Acq On : 16 Aug 2019 16:53
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 16 23:35:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	34036	4.783	ug/L	92
25) Chloroform	4.42	83	136096	4.329	ug/L	99
27) 1,2-Dichloroethane	5.18	62	78244	4.532	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	119696	4.359	ug/L	98
30) Cyclohexane	4.72	56	111254	4.068	ug/L	99
31) Carbon tetrachloride	4.87	117	109354	4.401	ug/L	99
33) Benzene	5.14	78	290765	4.293	ug/L	100
34) Trichloroethene	5.96	95	77903	4.246	ug/L	96
35) Methylcyclohexane	6.17	83	121773	4.272	ug/L	98
37) 1,2-Dichloropropane	6.22	63	70593	4.177	ug/L	99
38) Bromodichloromethane	6.55	83	93400	4.290	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	103679	4.455	ug/L	100
40) 4-Methyl-2-pentanone	7.28	43	401954	43.265	ug/L	98
42) Toluene	7.43	91	327327	4.543	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	80802	4.412	ug/L	96
45) 1,1,2-Trichloroethane	7.88	97	51430	4.563	ug/L	98
47) Tetrachloroethene	8.02	164	71269	4.713	ug/L	95
48) 2-Hexanone	8.19	43	300377	45.872	ug/L	96
49) Dibromochloromethane	8.29	129	67996	4.859	ug/L	95
50) 1,2-Dibromoethane	8.40	107	51903	4.767	ug/L	100
51) Chlorobenzene	8.92	112	222860	4.777	ug/L	99
52) Ethylbenzene	9.05	91	374664	4.879	ug/L	99
53) m,p-xylene	9.18	106	145739	4.943	ug/L	99
54) o-xylene	9.59	106	138222	4.953	ug/L	96
55) Styrene	9.60	104	239485	5.135	ug/L	99
56) Isopropylbenzene	9.97	105	369231	4.947	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.28	83	61430	4.698	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	47686	4.974	ug/L	100
61) Bromoform	9.78	173	34828	4.685	ug/L	98
62) 1,3-Dichlorobenzene	11.23	146	177617	4.627	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	177123	4.630	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	166800	4.736	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	9403	4.193	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	133696	4.612	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	97706	4.535	ug/L	100
69) Naphthalene	13.55	128	141001	4.527	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	95236	4.681	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.955 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

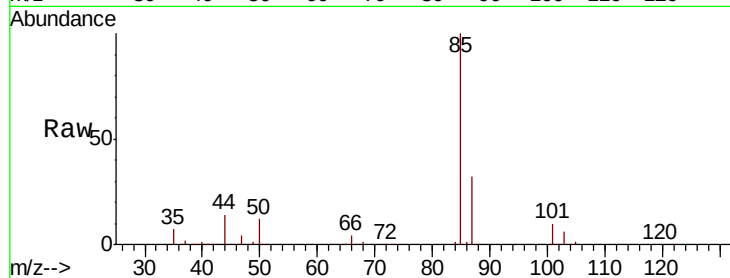
VSTD00544

Tgt Ion: 85.00 Resp: 102442

Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV012262.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV012262.D (-7) (-)

1.14

100000

80000

60000

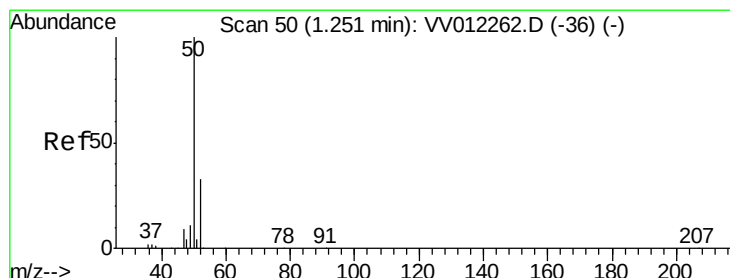
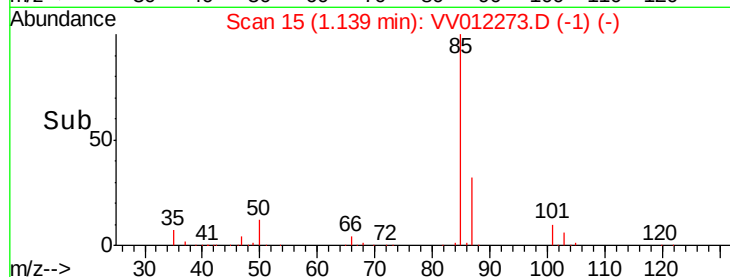
40000

20000

0

1.10 1.15 1.20

Time-->



#3

Chloromethane

Concen: 4.817 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012273.D

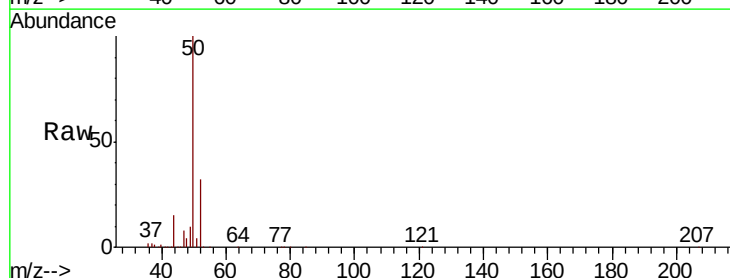
Acq: 16 Aug 2019 16:53

Tgt Ion: 50.00 Resp: 90191

Ion Ratio Lower Upper

50 100

52 32.4 22.6 42.0



Abundance Ion 50.05 (49.75 to 50.75): VV012262.D (-36) (-)

Ion 52.05 (51.75 to 52.75): VV012262.D (-36) (-)

1.25

80000

60000

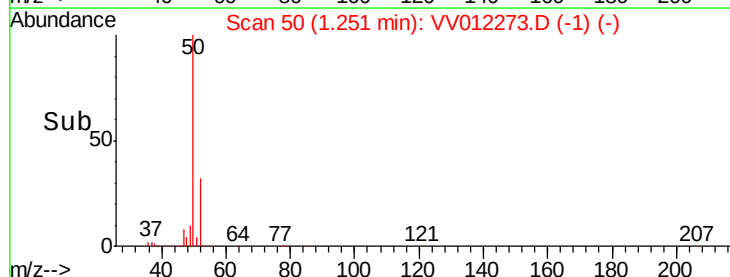
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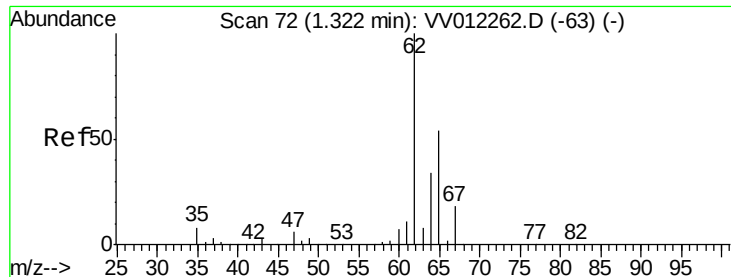
20000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 4.929 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

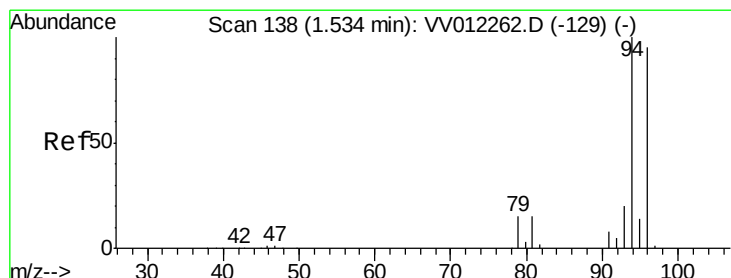
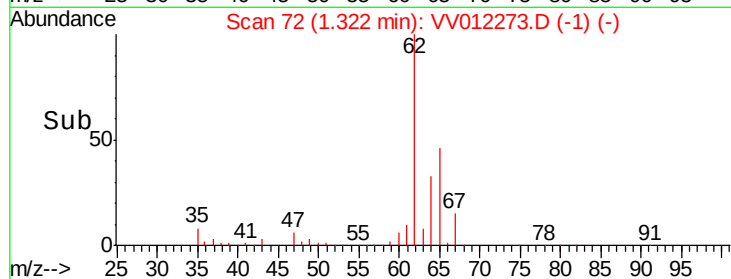
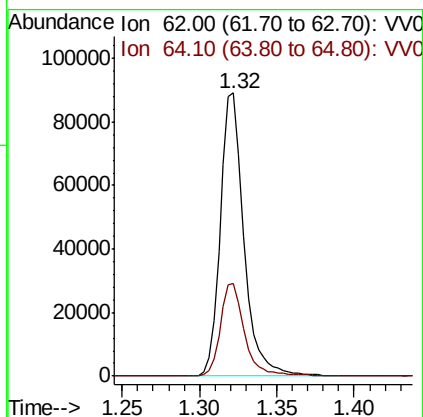
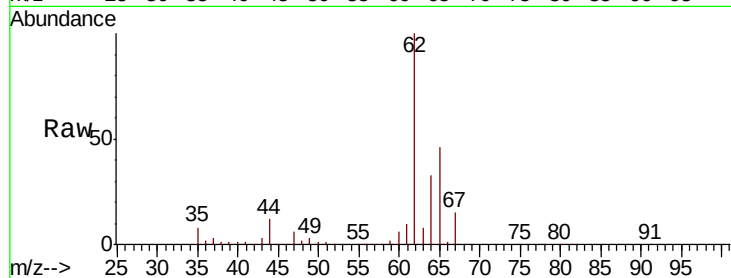
VSTD00544

Tgt Ion: 62 Resp: 94816

Ion Ratio Lower Upper

62 100

64 32.8 22.7 42.1



#6

Bromomethane

Concen: 4.386 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV012273.D

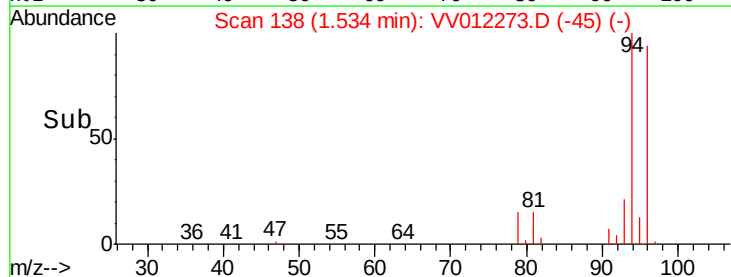
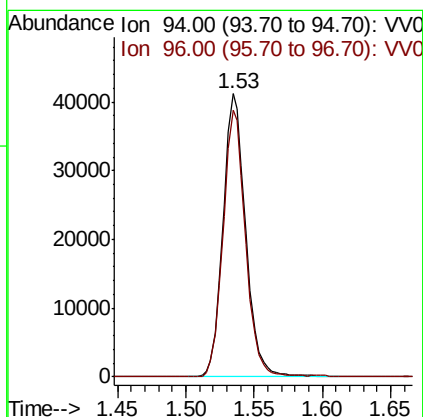
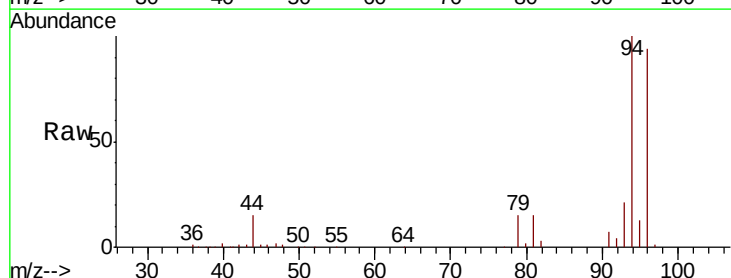
Acq: 16 Aug 2019 16:53

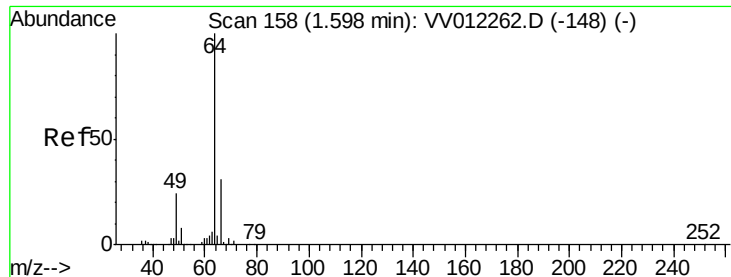
Tgt Ion: 94 Resp: 47685

Ion Ratio Lower Upper

94 100

96 94.2 67.3 125.1





#8

Chloroethane

Concen: 4.876 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

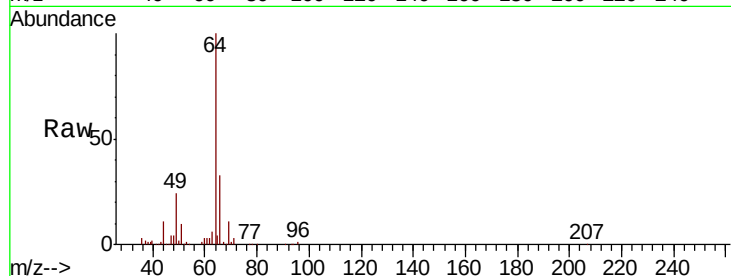
VSTD00544

Tgt Ion: 64 Resp: 54107

Ion Ratio Lower Upper

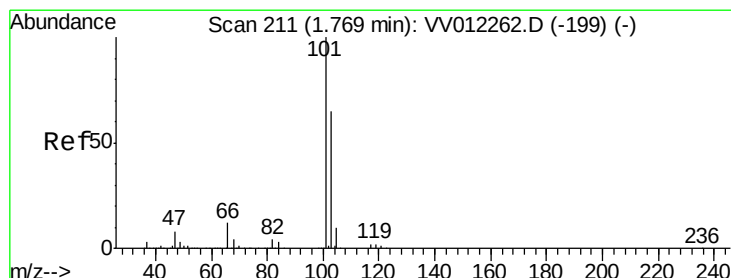
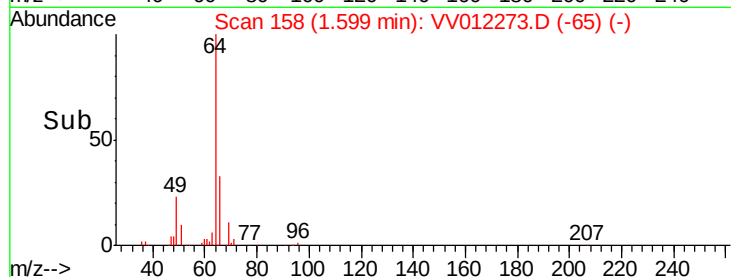
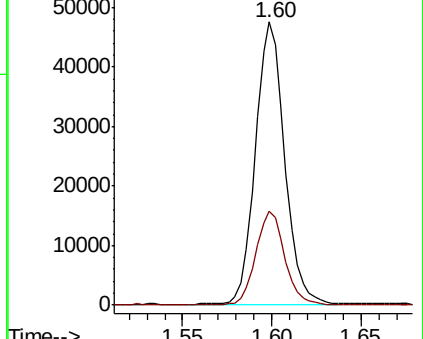
64 100

66 33.0 21.8 40.4



Abundance Ion 64.10 (63.80 to 64.80): VV012262.D (-148) (-)

Ion 66.05 (65.75 to 66.75): VV012262.D (-148) (-)



#9

Trichlorofluoromethane

Concen: 4.488 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012273.D

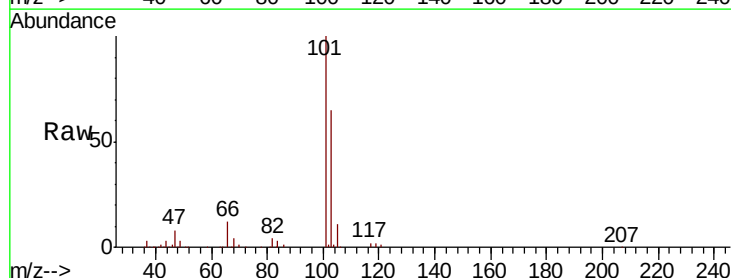
Acq: 16 Aug 2019 16:53

Tgt Ion: 101 Resp: 108605

Ion Ratio Lower Upper

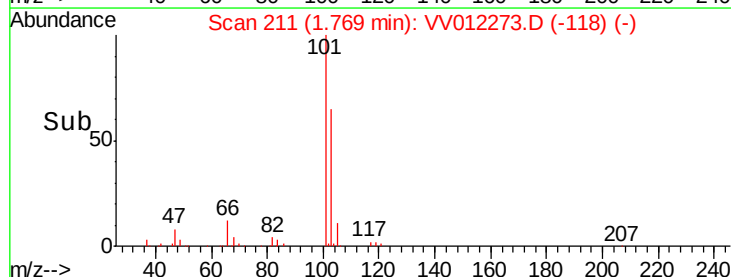
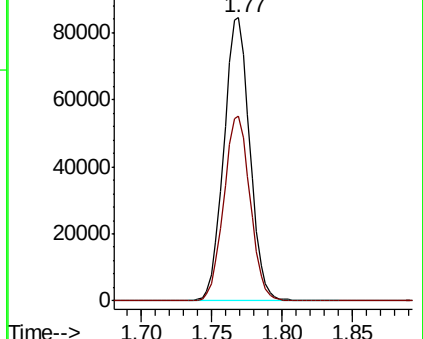
101 100

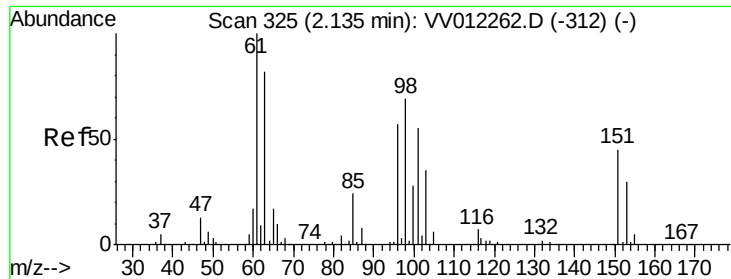
103 66.1 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VV012262.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV012262.D (-199) (-)





#10

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

Concen: 4.135 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

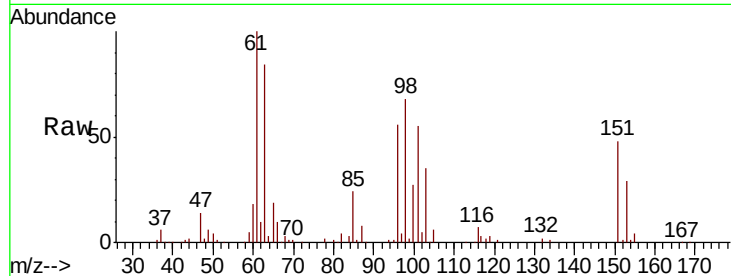
Tgt Ion:101 Resp: 50599

Ion Ratio Lower Upper

101 100

85 44.2 33.7 50.5

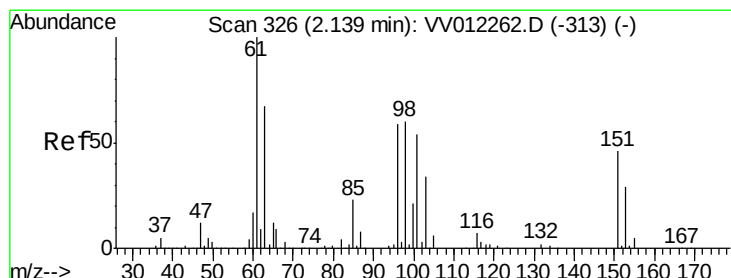
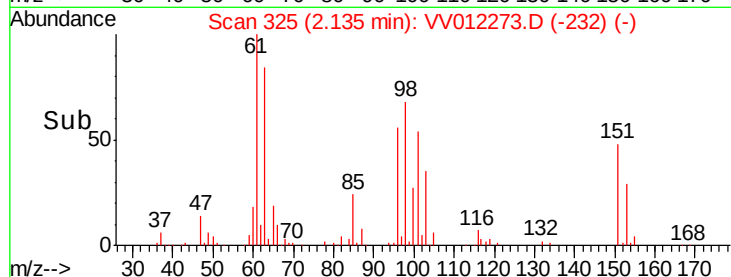
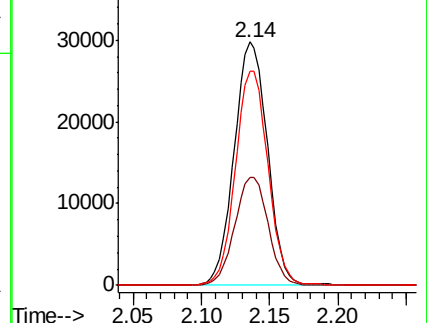
151 85.8 66.3 99.5



Abundance Ion 101.00 (100.70 to 101.70): VV012262.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV012262.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV012262.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 3.932 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

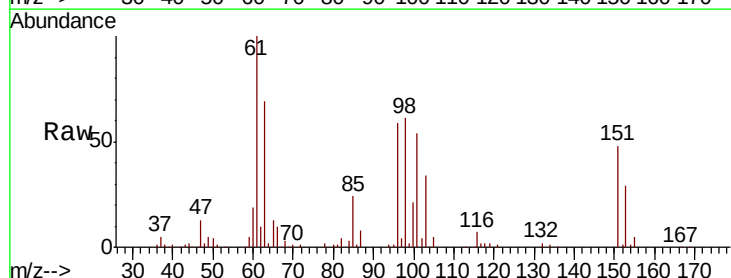
Tgt Ion: 96 Resp: 44556

Ion Ratio Lower Upper

96 100

61 170.3 119.3 221.5

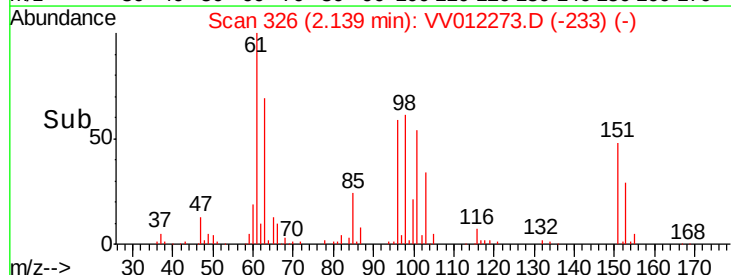
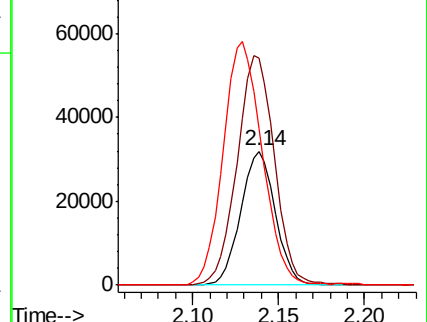
63 116.9 74.9 139.1

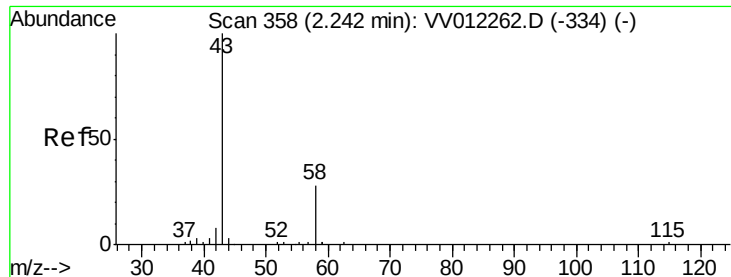


Abundance Ion 96.00 (95.70 to 96.70): VV012262.D (-313) (-)

Ion 61.05 (60.75 to 61.75): VV012262.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV012262.D (-313) (-)





#13

Acetone

Concen: 40.894 ug/L

RT: 2.23 min Scan# 354

Delta R.T. -0.01 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

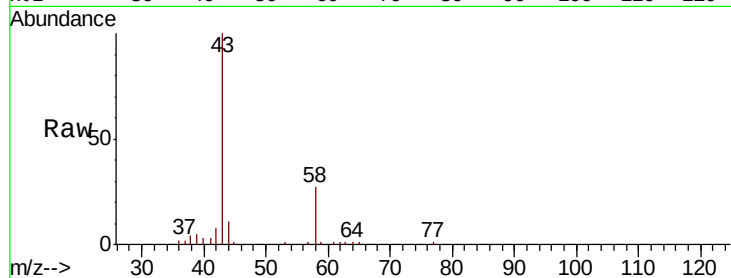
VSTD00544

Tgt Ion: 43 Resp: 73045

Ion Ratio Lower Upper

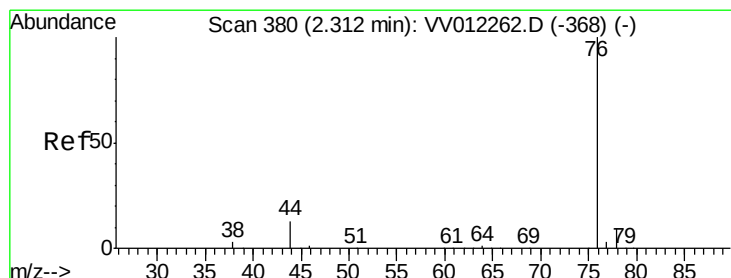
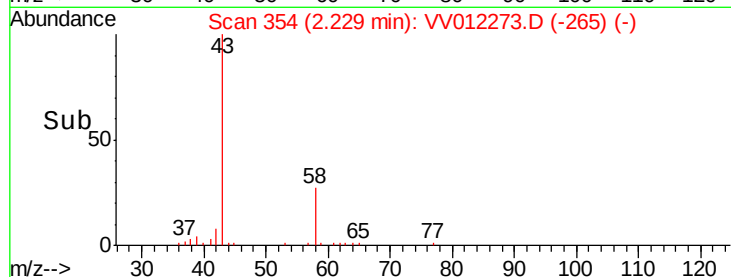
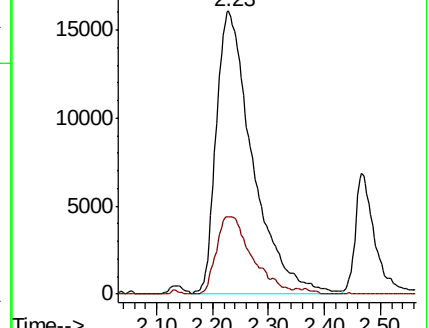
43 100

58 25.2 0.0 59.4



Abundance Ion 43.05 (42.75 to 43.75): VV012262.D (-334) (-)

Ion 58.05 (57.75 to 58.75): VV012262.D (-334) (-)



#14

Carbon disulfide

Concen: 3.707 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012273.D

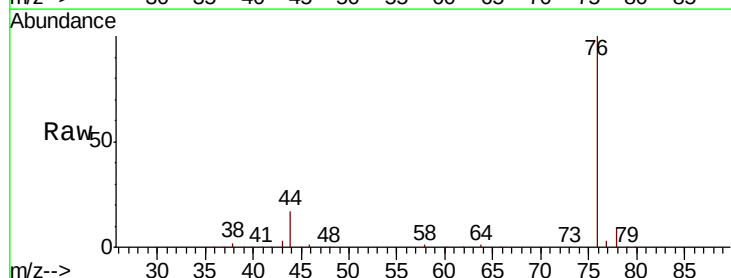
Acq: 16 Aug 2019 16:53

Tgt Ion: 76 Resp: 123034

Ion Ratio Lower Upper

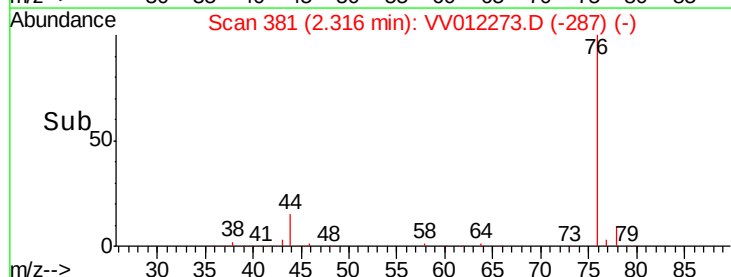
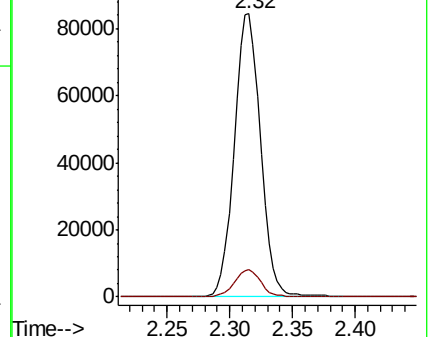
76 100

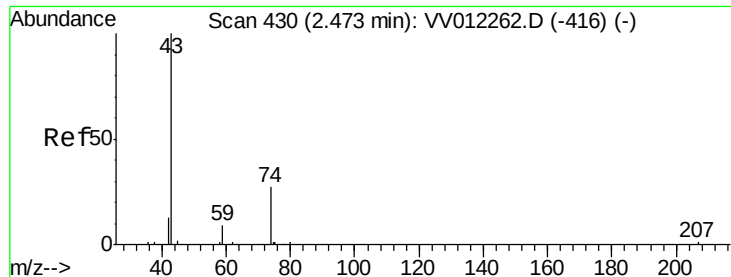
78 9.5 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VV012262.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV012262.D (-368) (-)

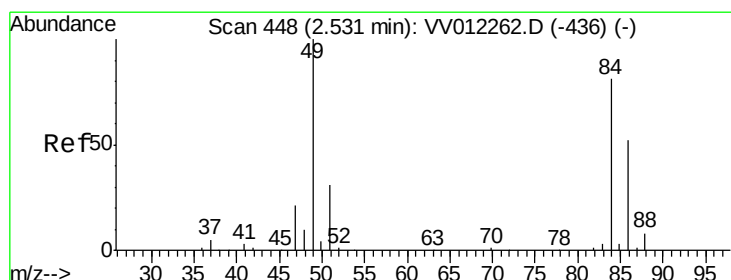
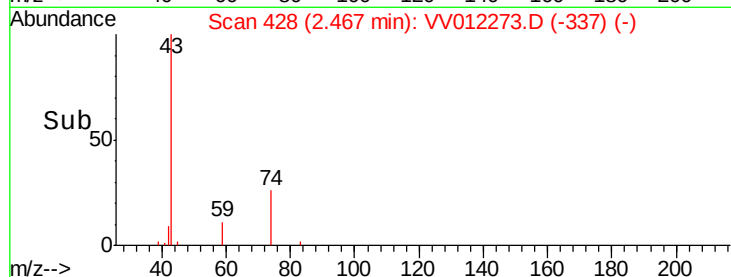
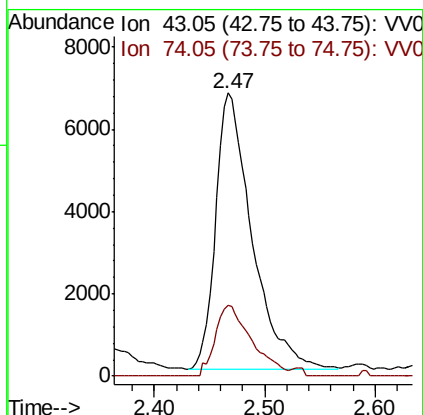
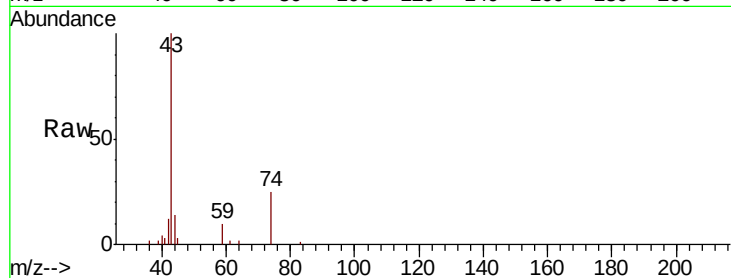




#15
Methyl Acetate
Concen: 3.400 ug/L
RT: 2.47 min Scan# 428
Delta R.T. -0.01 min
Lab File: VV012273.D
Acq: 16 Aug 2019 16:53

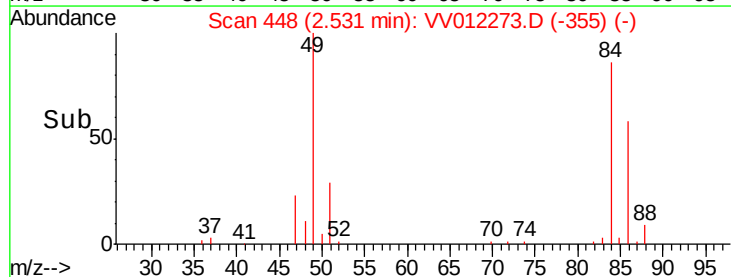
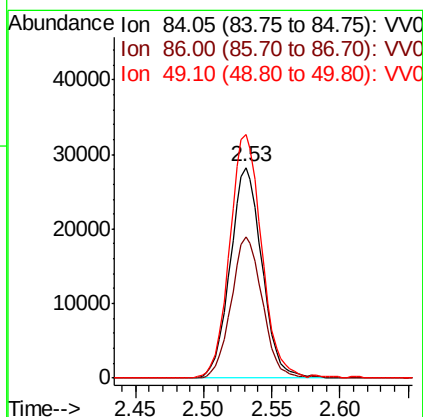
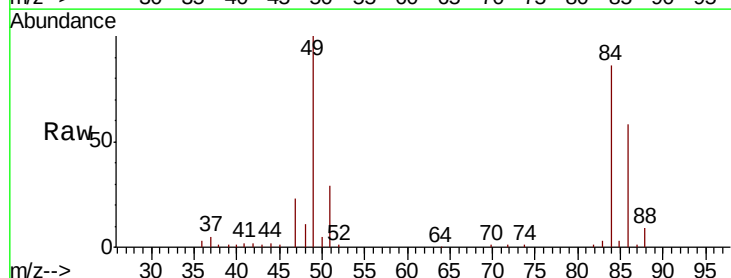
Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

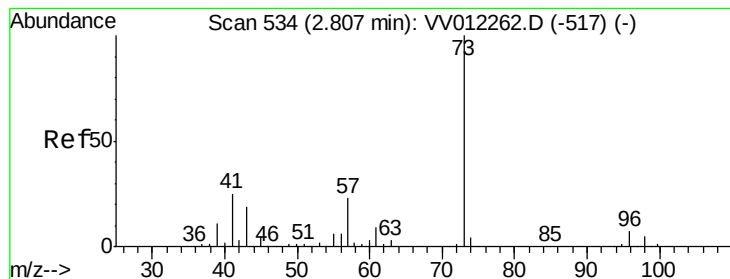
Tgt Ion: 43 Resp: 15333
Ion Ratio Lower Upper
43 100
74 25.9 20.3 30.5



#16
Methylene chloride
Concen: 3.745 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV012273.D
Acq: 16 Aug 2019 16:53

Tgt Ion: 84 Resp: 45763
Ion Ratio Lower Upper
84 100
86 67.1 44.4 82.5
49 115.6 85.1 158.1



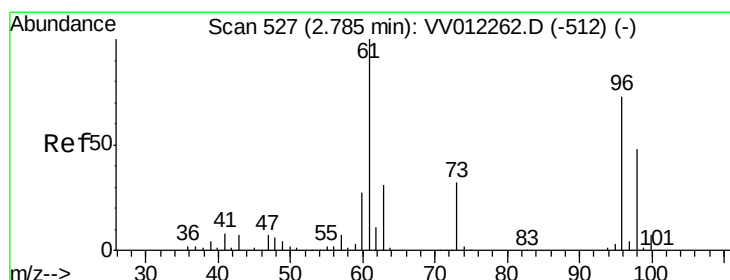
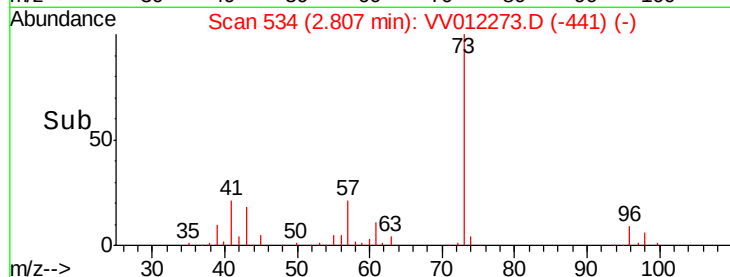
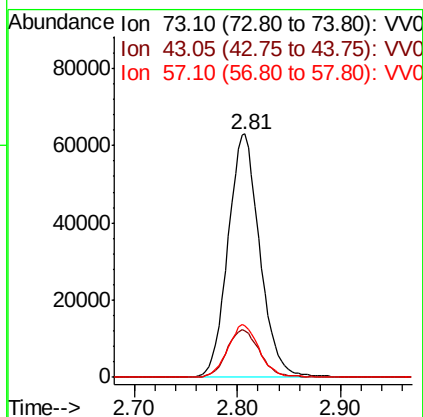
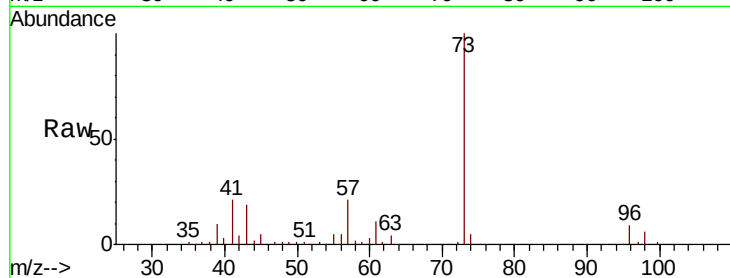


#17

Methyl tert-butyl Ether
 Concen: 4.333 ug/L
 RT: 2.81 min Scan# 534
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

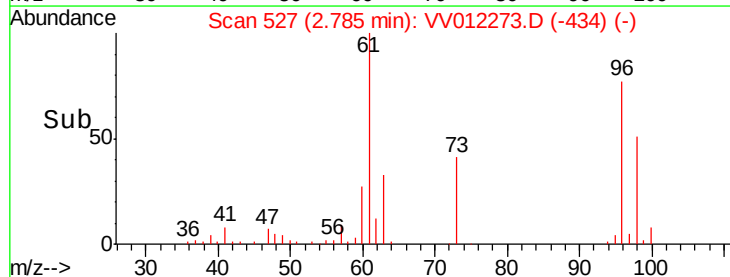
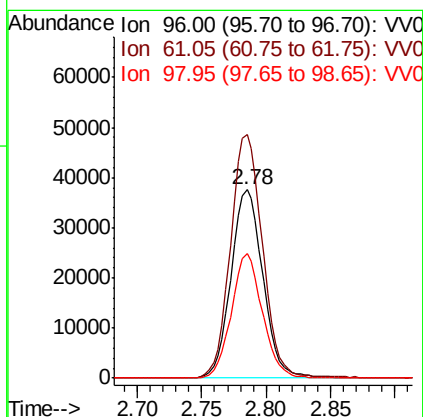
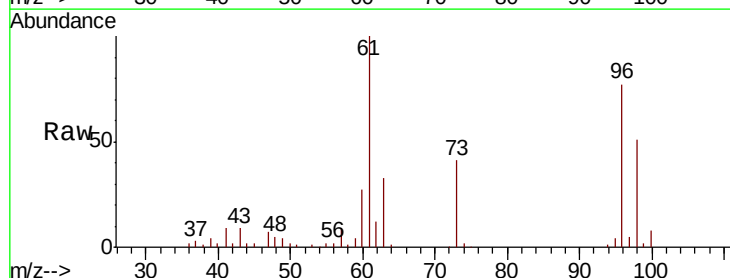
Tgt Ion:	73	Resp:	135255
Ion	Ratio	Lower	Upper
73	100		
43	20.4	15.4	23.0
57	21.5	17.8	26.6

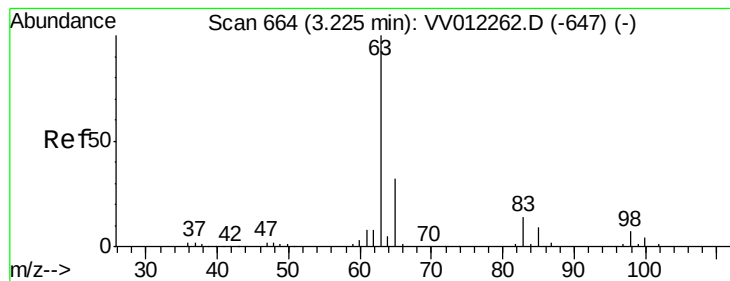


#18

trans-1,2-Dichloroethene
 Concen: 4.288 ug/L
 RT: 2.78 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Tgt Ion:	96	Resp:	64825
Ion	Ratio	Lower	Upper
96	100		
61	129.5	90.8	168.6
98	66.2	44.4	82.4





#19

1,1-Dichloroethane

Concen: 4.311 ug/L

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

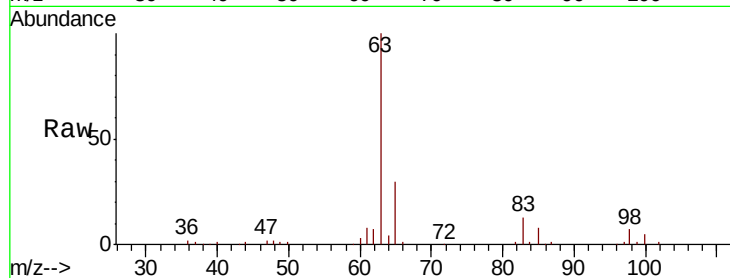
Tgt Ion: 63 Resp: 119353

Ion Ratio Lower Upper

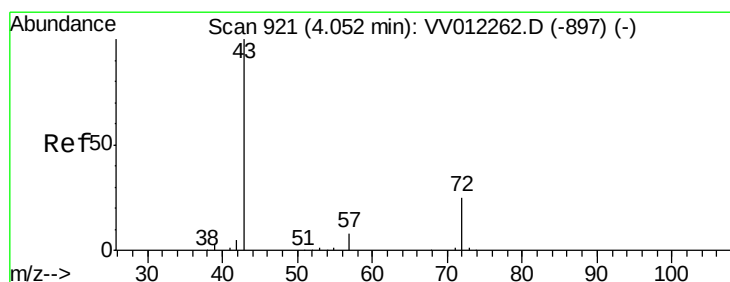
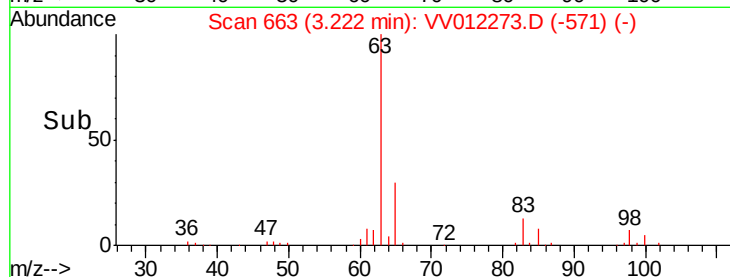
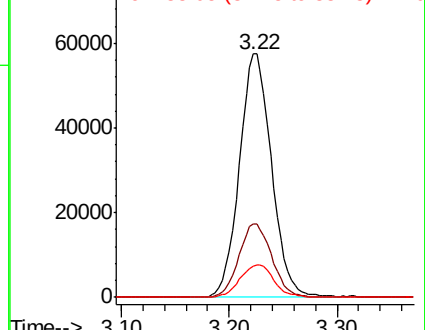
63 100

65 30.4 21.7 40.3

83 12.9 10.1 18.9



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



#21

2-Butanone

Concen: 41.048 ug/L

RT: 4.05 min Scan# 919

Delta R.T. -0.01 min

Lab File: VV012273.D

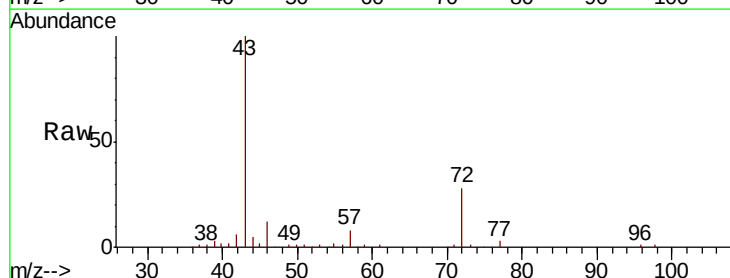
Acq: 16 Aug 2019 16:53

Tgt Ion: 43 Resp: 149922

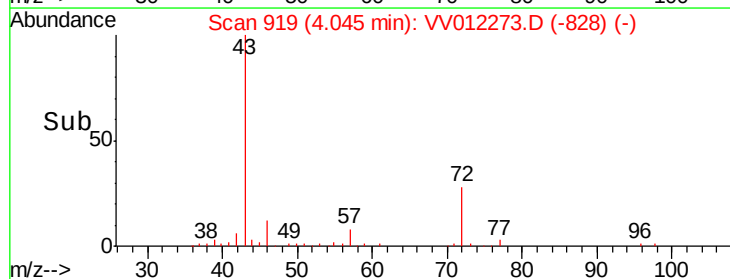
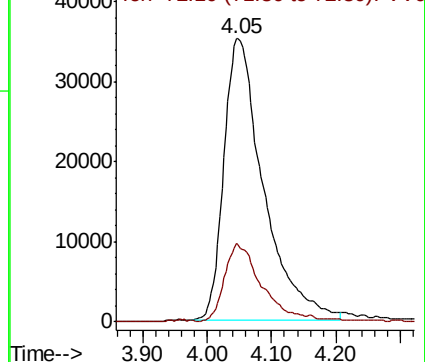
Ion Ratio Lower Upper

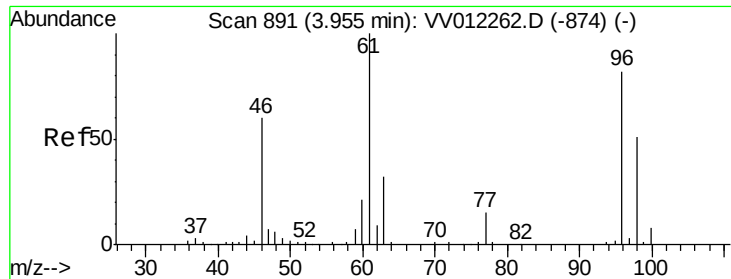
43 100

72 25.9 12.9 38.7



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 72.10 (71.80 to 72.80): VV0



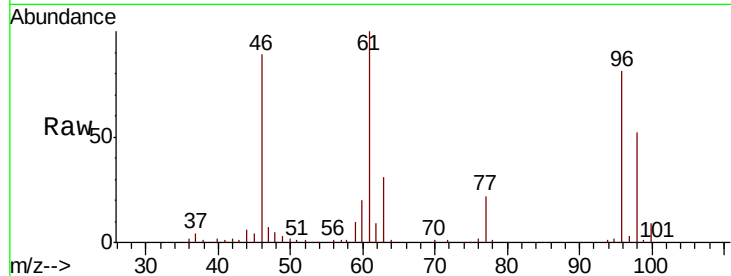


#22

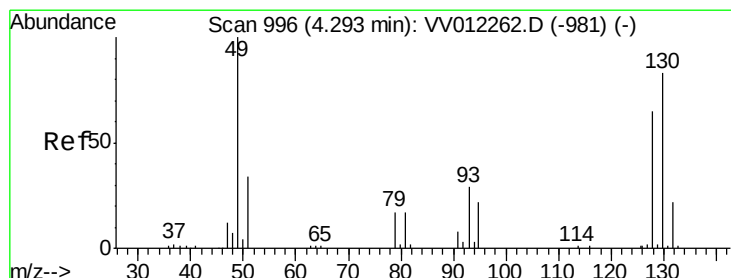
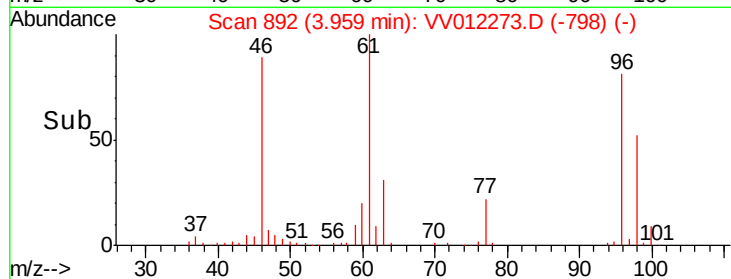
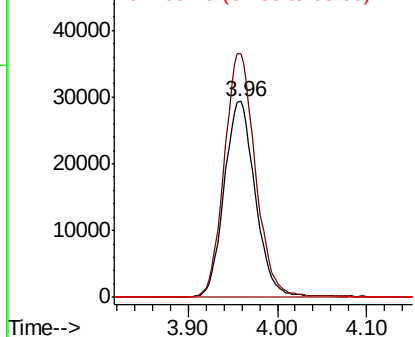
cis-1,2-Dichloroethene
 Concen: 4.258 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

Tgt Ion: 96 Resp: 71078
 Ion Ratio Lower Upper
 96 100
 61 124.1 86.0 159.6
 68 0.0 0.0 0.0



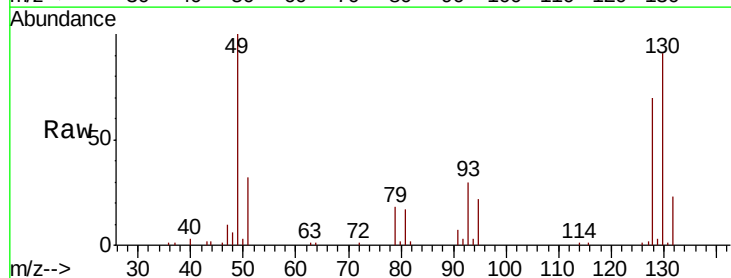
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



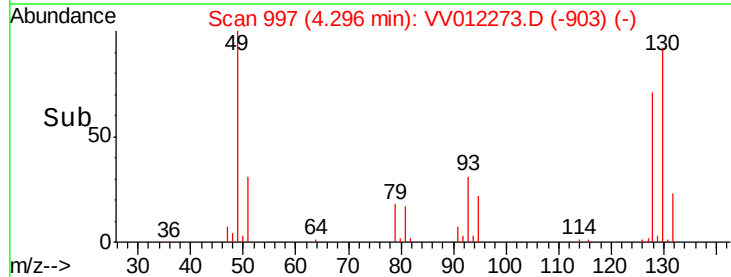
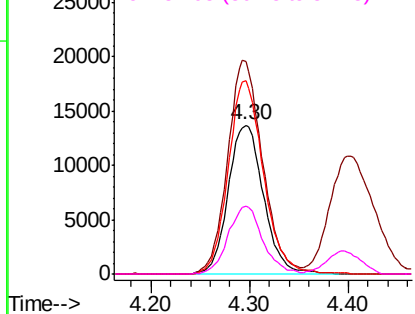
#23

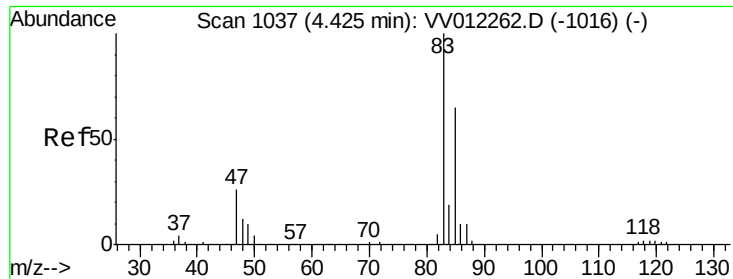
Bromochloromethane
 Concen: 4.783 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Tgt Ion: 128 Resp: 34036
 Ion Ratio Lower Upper
 128 100
 49 142.7 111.5 207.1
 130 129.5 87.4 162.4
 51 45.4 38.2 57.2



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

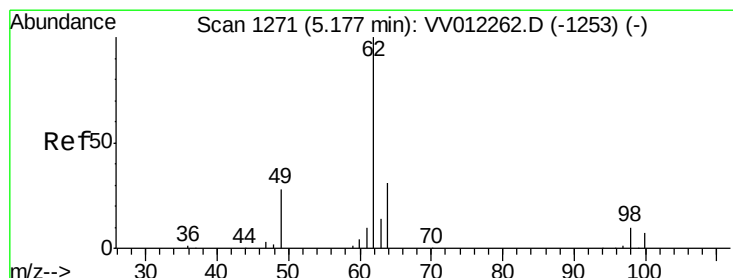
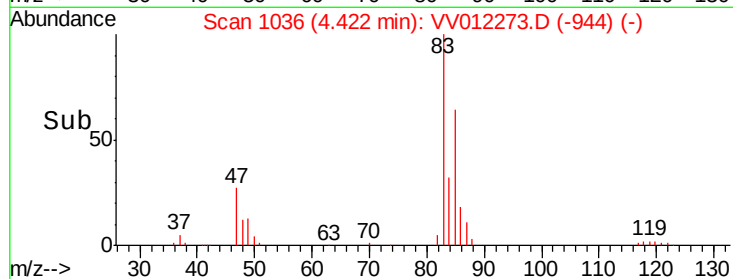
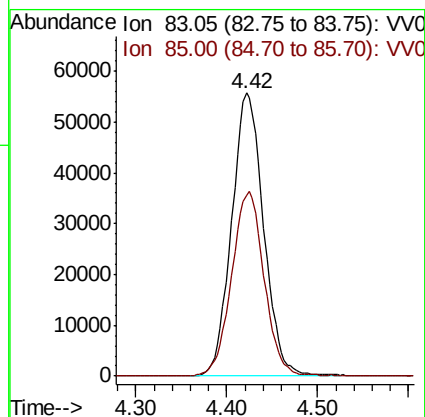
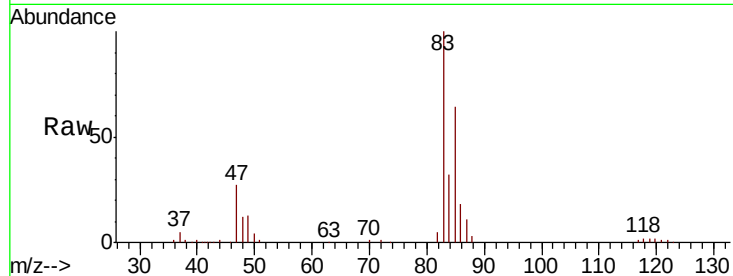




#25
Chloroform
Concen: 4.329 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV012273.D
Acq: 16 Aug 2019 16:53

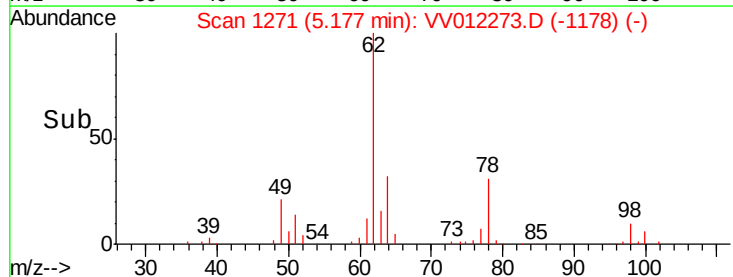
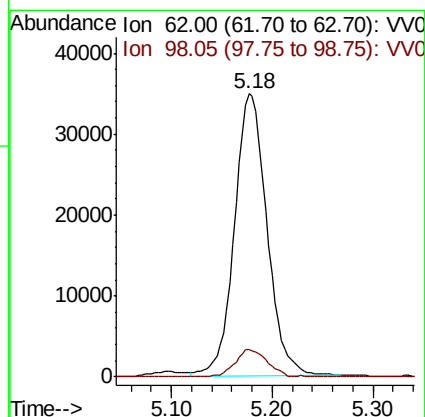
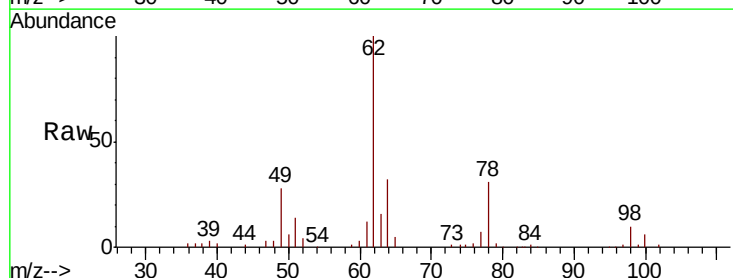
Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

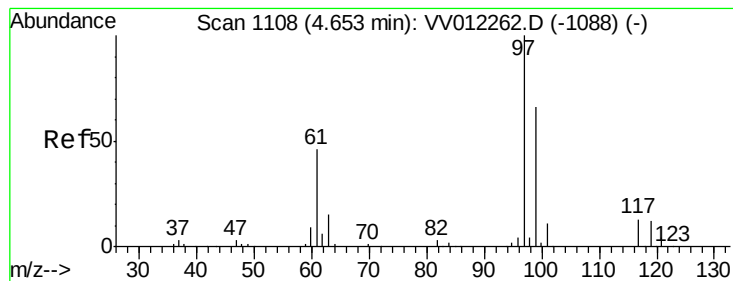
Tgt Ion: 83 Resp: 136096
Ion Ratio Lower Upper
83 100
85 64.0 44.3 82.3



#27
1,2-Dichloroethane
Concen: 4.532 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV012273.D
Acq: 16 Aug 2019 16:53

Tgt Ion: 62 Resp: 78244
Ion Ratio Lower Upper
62 100
98 9.8 7.5 11.3





#29

1,1,1-Trichloroethane

Concen: 4.359 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

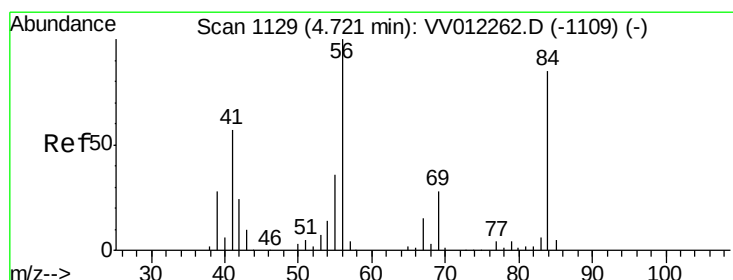
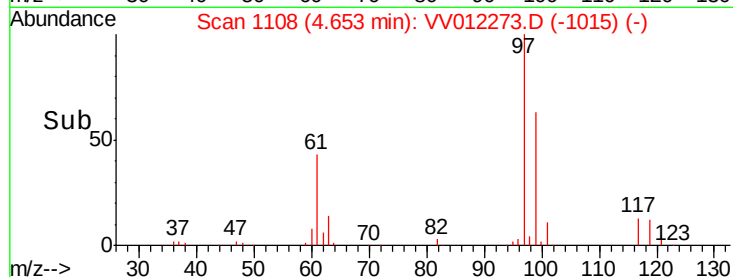
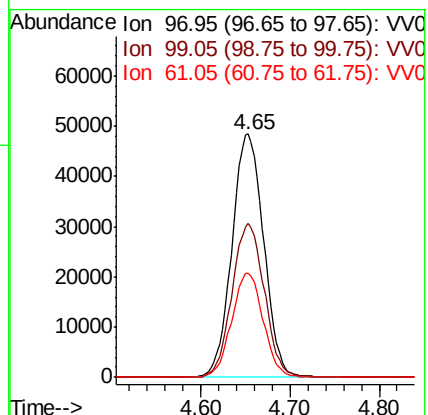
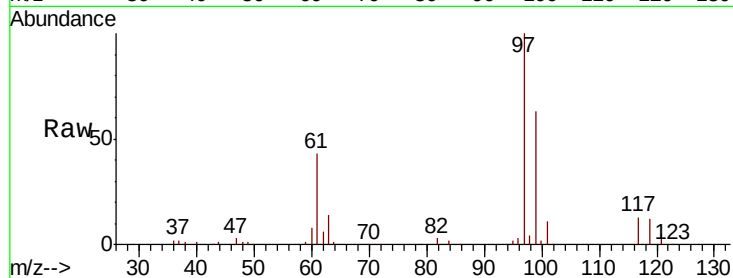
Tgt Ion: 97 Resp: 119696

Ion Ratio Lower Upper

97 100

99 64.1 52.1 78.1

61 42.4 35.4 53.0



#30

Cyclohexane

Concen: 4.068 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

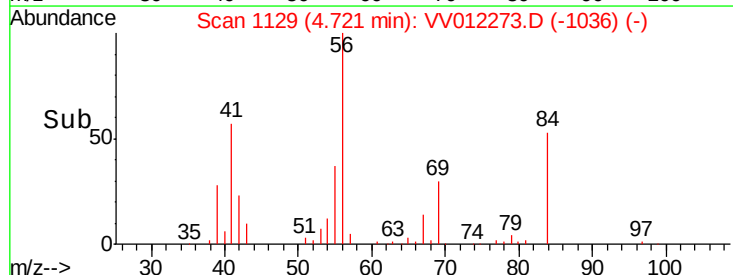
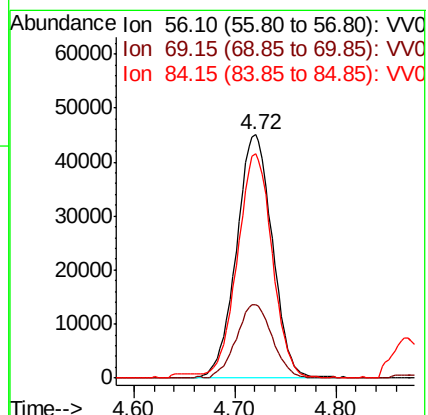
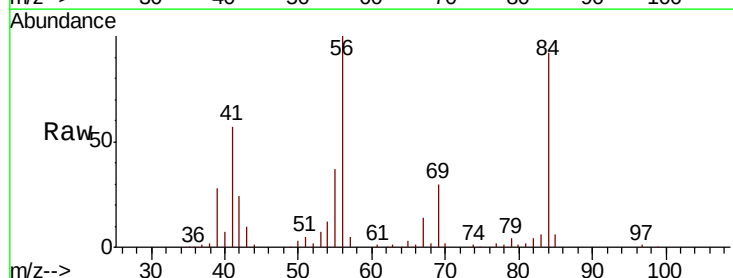
Tgt Ion: 56 Resp: 111254

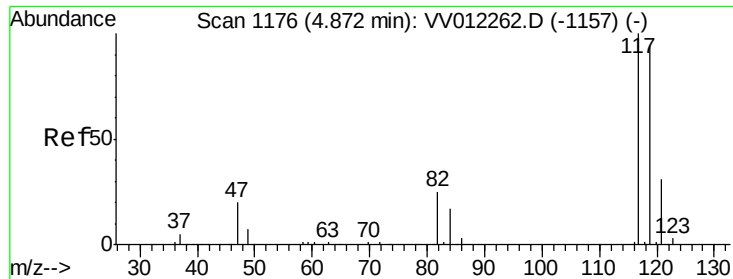
Ion Ratio Lower Upper

56 100

69 30.1 24.6 36.8

84 88.2 71.0 106.6





#31

Carbon tetrachloride

Concen: 4.401 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

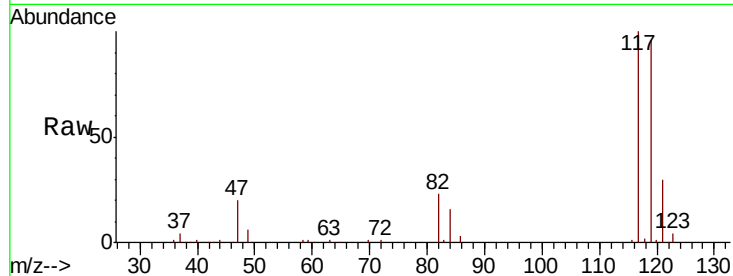
VSTD00544

Tgt Ion:117 Resp: 109354

Ion Ratio Lower Upper

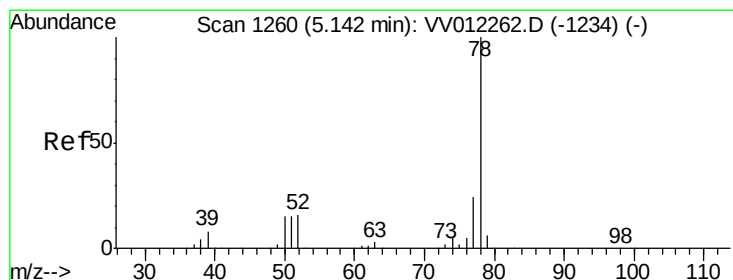
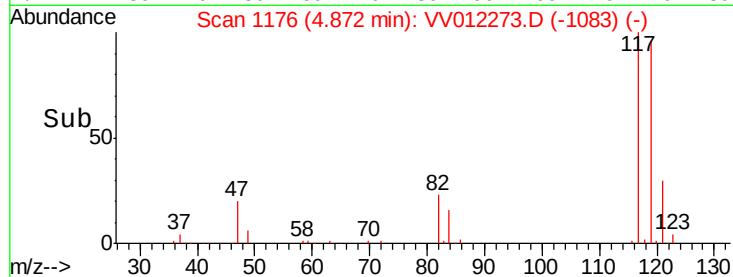
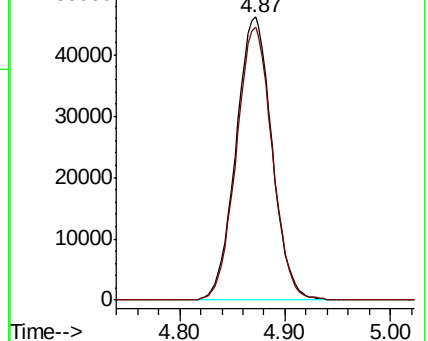
117 100

119 96.3 77.9 116.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.293 ug/L

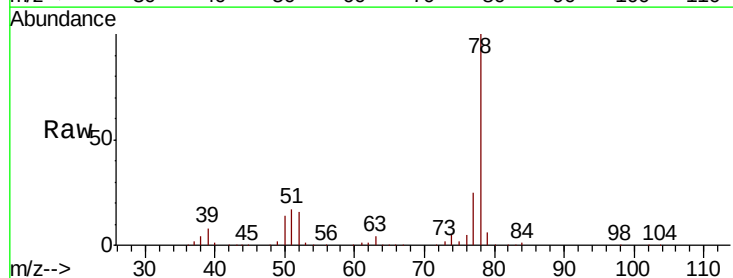
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

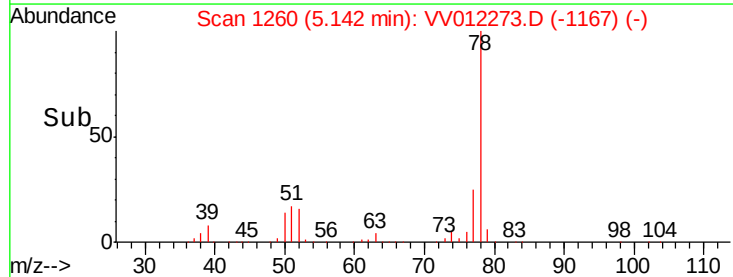
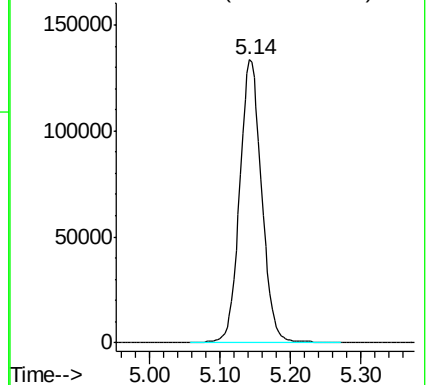
Lab File: VV012273.D

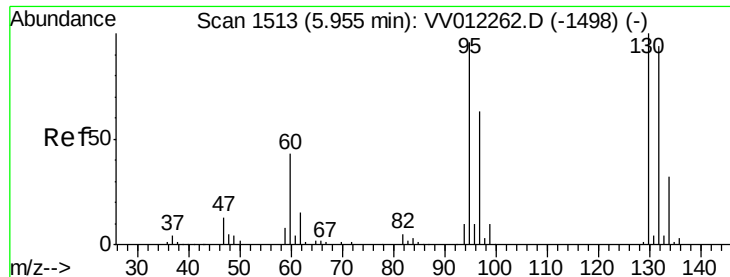
Acq: 16 Aug 2019 16:53

Tgt Ion: 78 Resp: 290765



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.246 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

Tgt Ion: 95 Resp: 77903

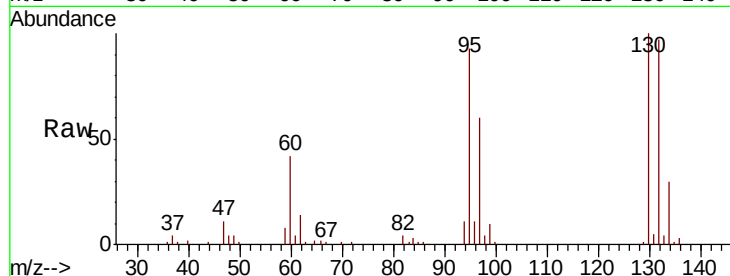
Ion Ratio Lower Upper

95 100

97 64.9 43.3 80.3

132 104.6 67.5 125.3

130 107.7 74.9 139.1

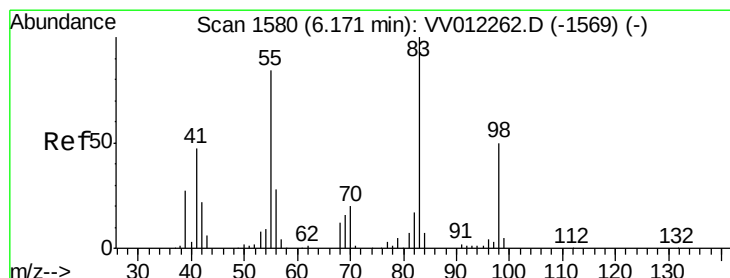
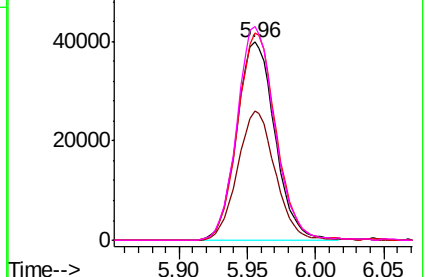
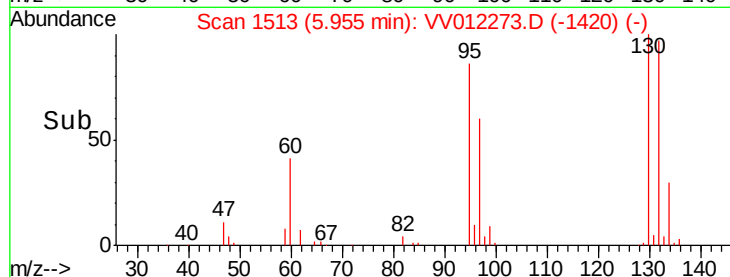


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 4.272 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

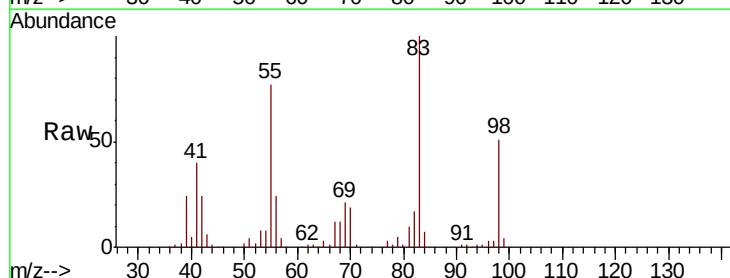
Tgt Ion: 83 Resp: 121773

Ion Ratio Lower Upper

83 100

55 77.4 62.2 93.2

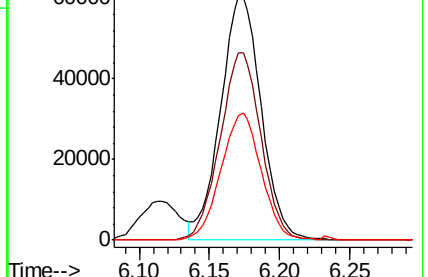
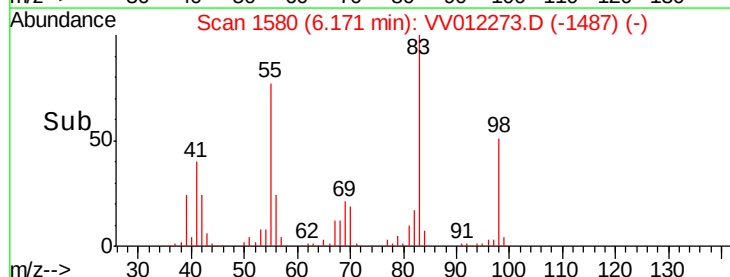
98 51.5 39.2 58.8

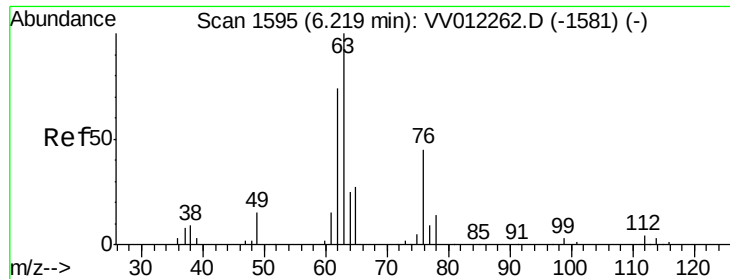


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

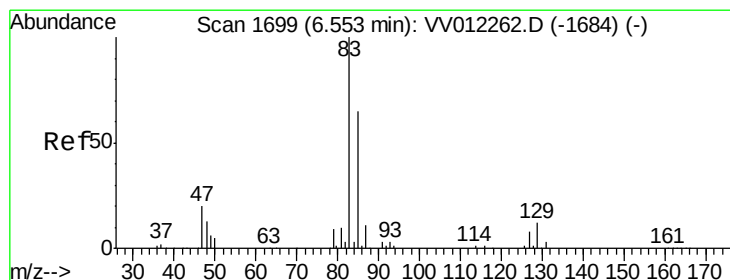
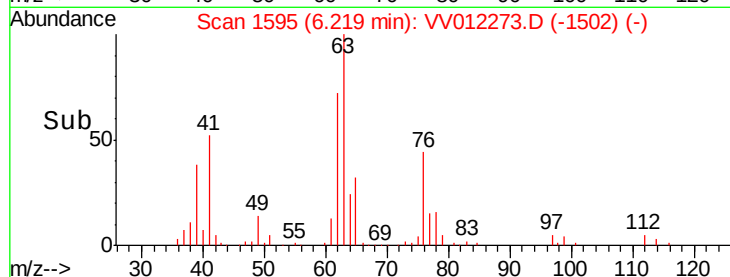
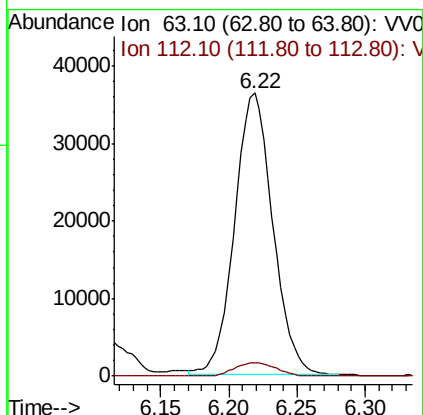
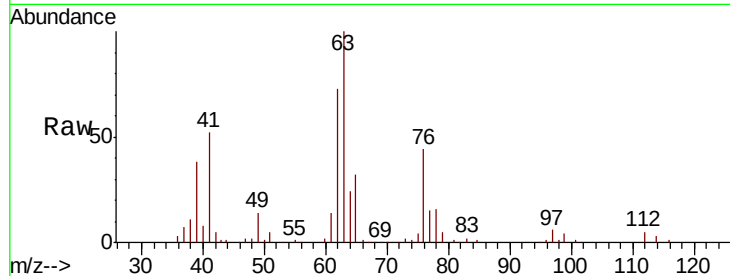




#37
 1,2-Dichloropropane
 Concen: 4.177 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

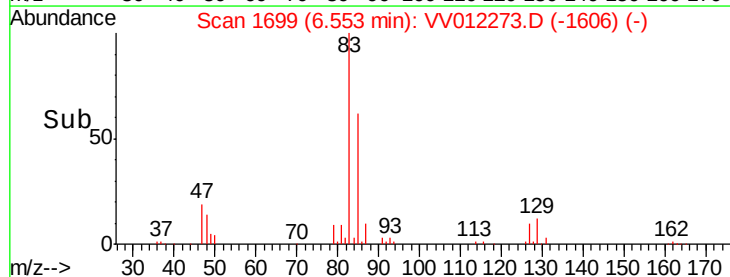
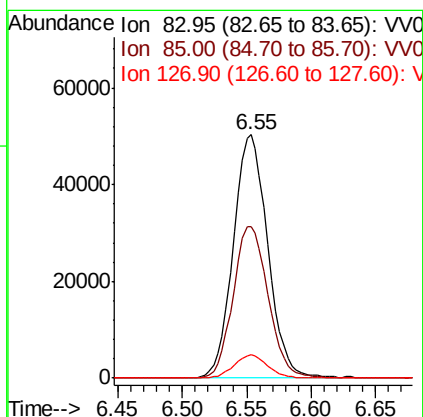
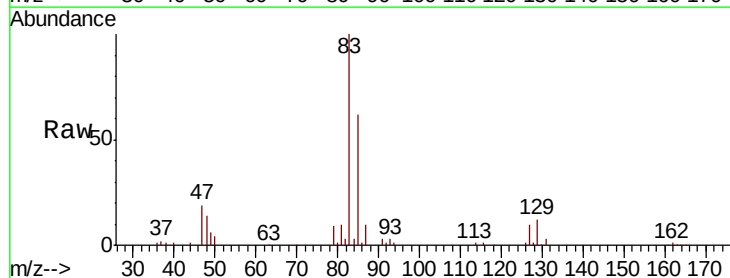
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

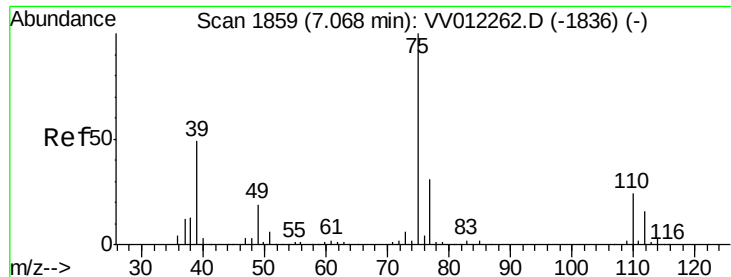
Tgt Ion: 63 Resp: 70593
 Ion Ratio Lower Upper
 63 100
 112 5.2 3.8 5.8



#38
 Bromodichloromethane
 Concen: 4.290 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Tgt Ion: 83 Resp: 93400
 Ion Ratio Lower Upper
 83 100
 85 62.3 45.9 85.3
 127 9.5 7.4 11.2

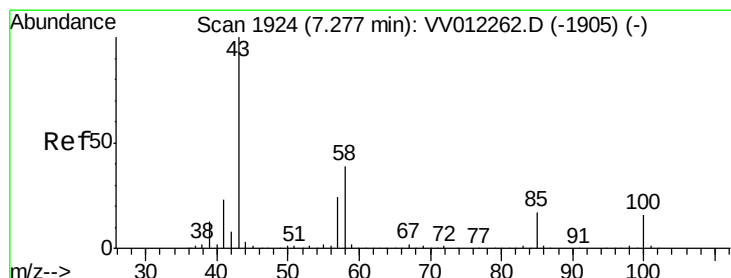
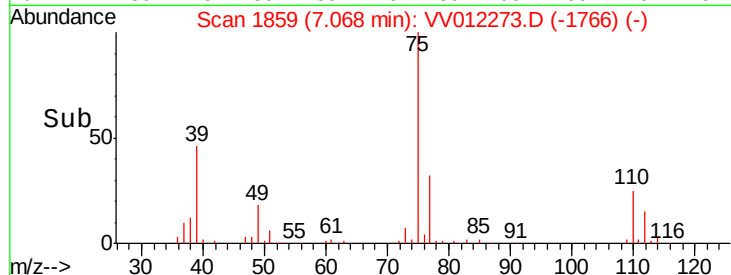
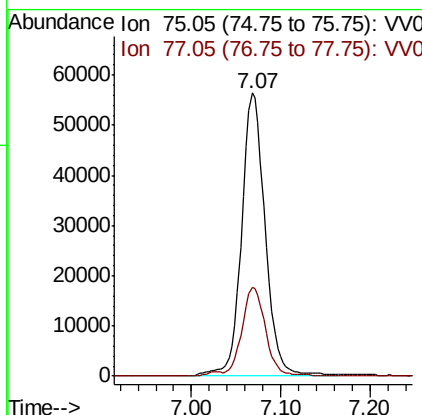
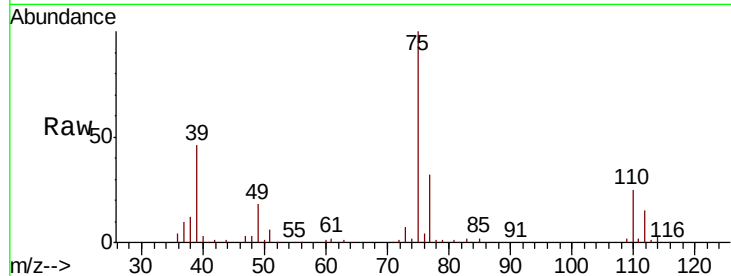




#39
 cis-1,3-Dichloropropene
 Concen: 4.455 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

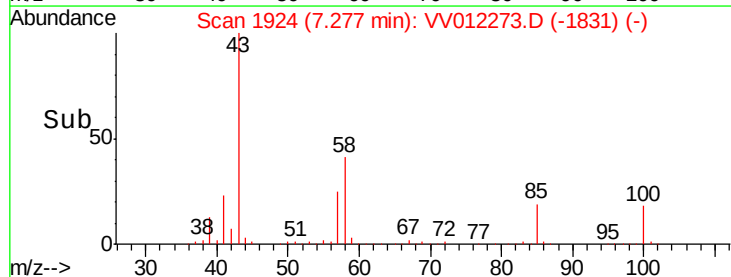
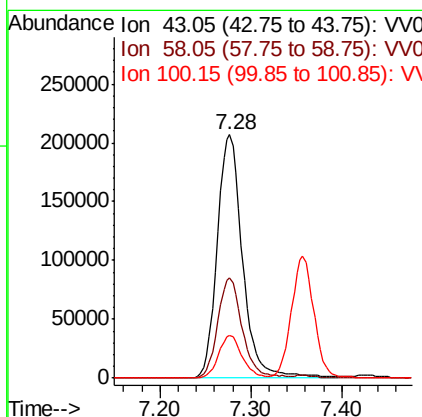
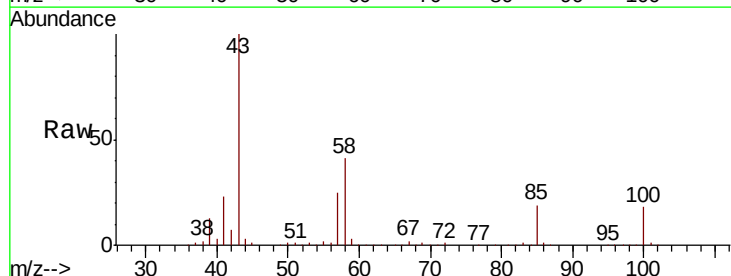
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

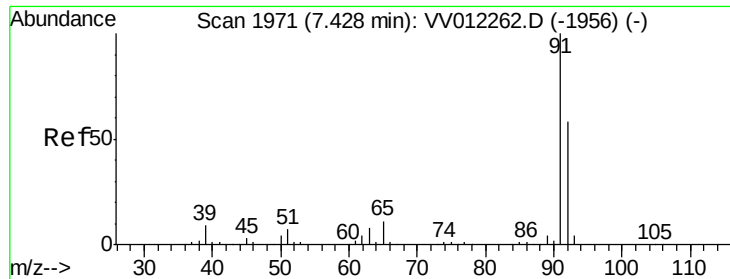
Tgt Ion: 75 Resp: 103679
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 43.265 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Tgt Ion: 43 Resp: 401954
 Ion Ratio Lower Upper
 43 100
 58 39.6 30.7 46.1
 100 16.2 12.5 18.7





#42

Toluene

Concen: 4.543 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

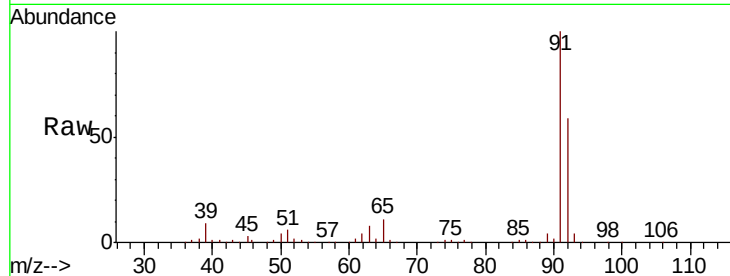
VSTD00544

Tgt Ion: 91 Resp: 327327

Ion Ratio Lower Upper

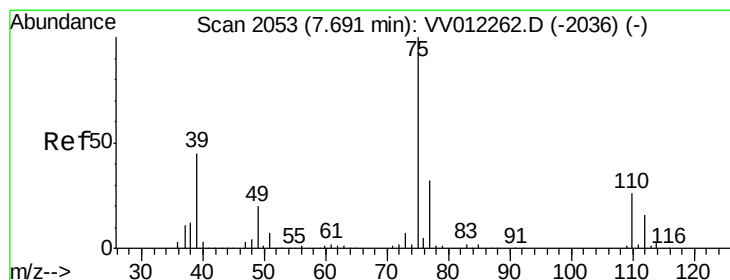
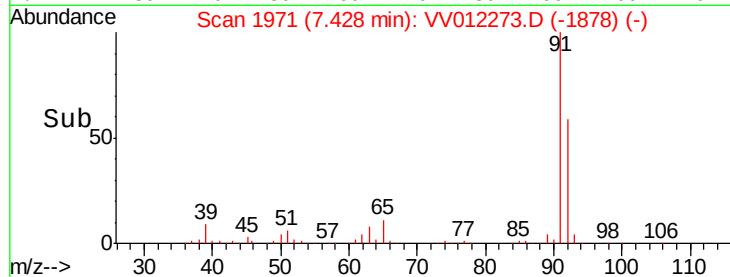
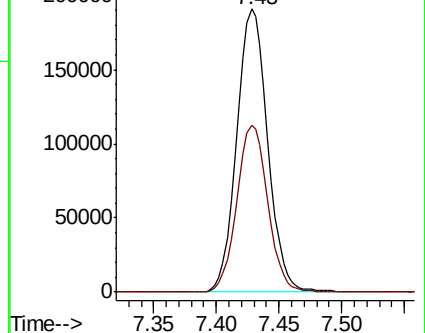
91 100

92 59.0 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 4.412 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012273.D

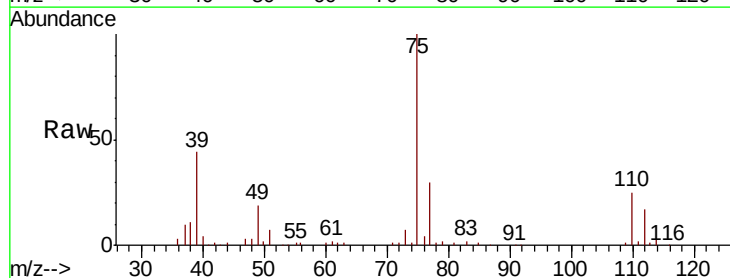
Acq: 16 Aug 2019 16:53

Tgt Ion: 75 Resp: 80802

Ion Ratio Lower Upper

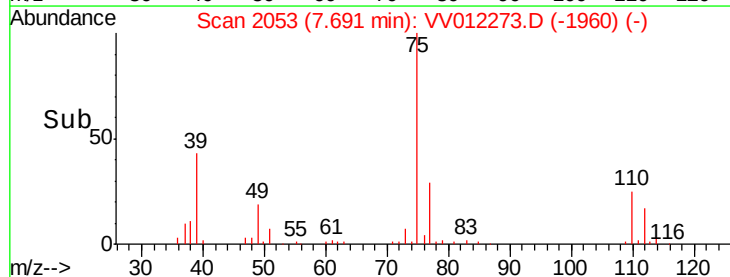
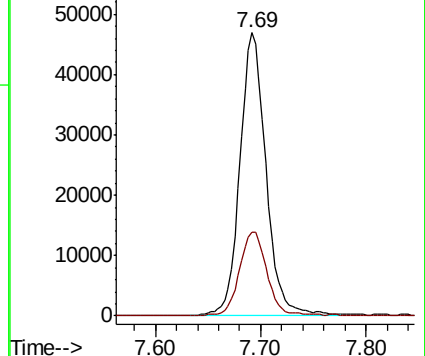
75 100

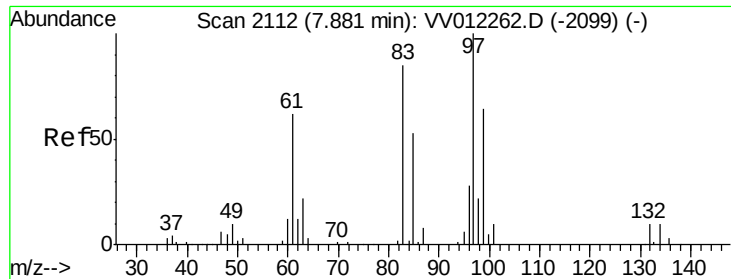
77 29.6 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

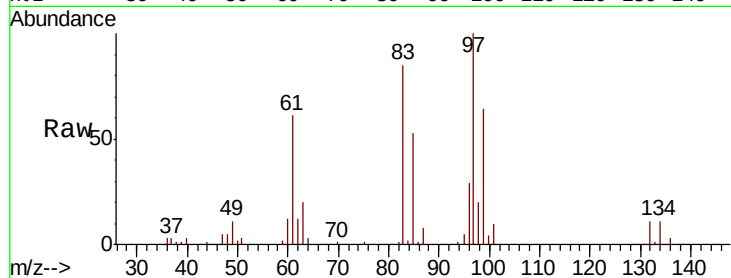




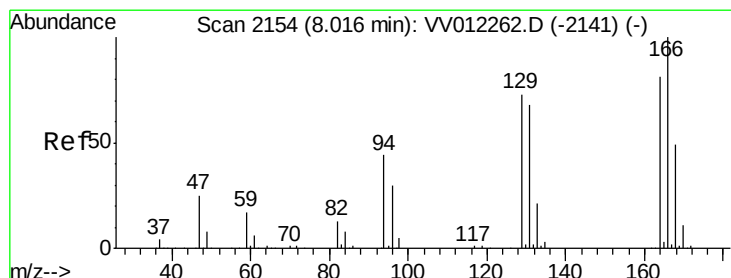
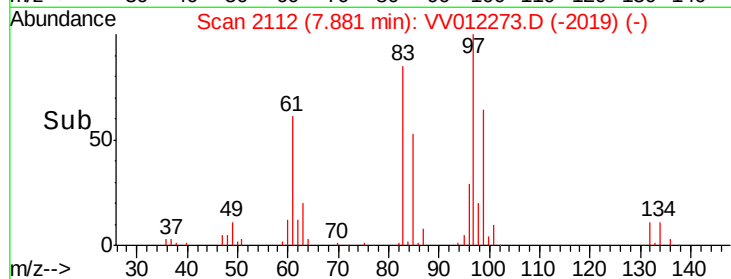
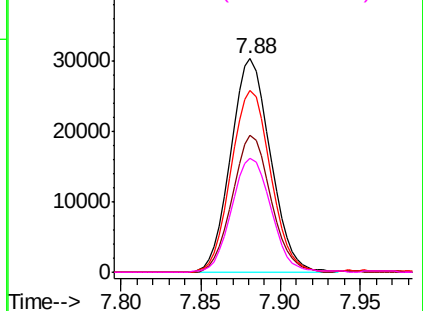
#45
 1,1,2-Trichloroethane
 Concen: 4.563 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

Tgt Ion:	97	Resp:	51430
Ion	Ratio	Lower	Upper
97	100		
99	64.3	45.4	84.2
83	85.0	60.1	111.5
85	53.3	39.8	73.8

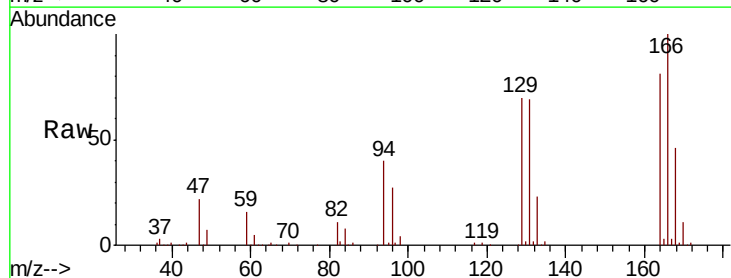


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

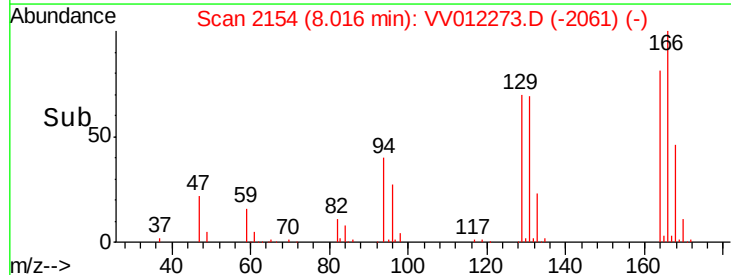
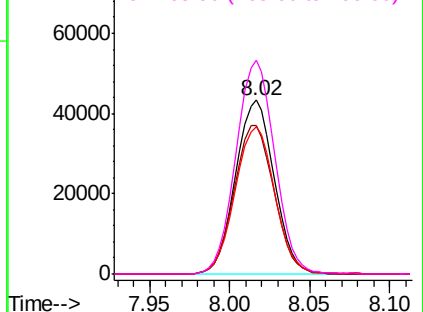


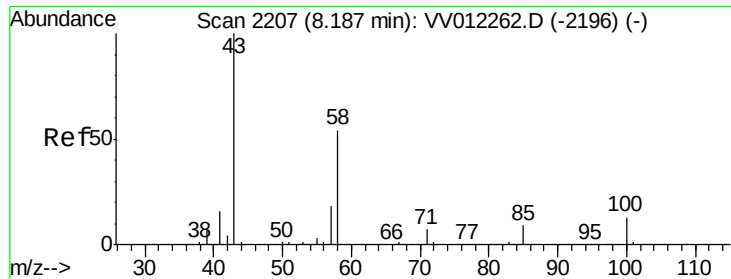
#47
 Tetrachloroethene
 Concen: 4.713 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Tgt Ion:	164	Resp:	71269
Ion	Ratio	Lower	Upper
164	100		
129	85.8	65.8	122.2
131	84.5	61.9	114.9
166	122.8	88.3	164.1



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

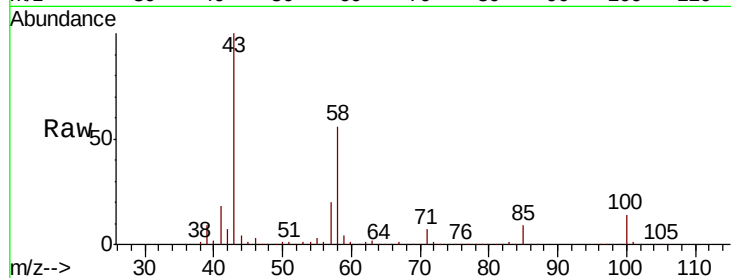




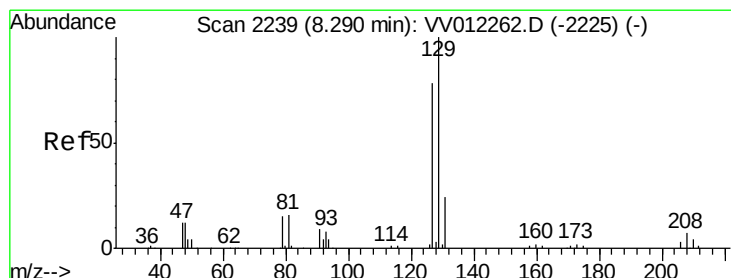
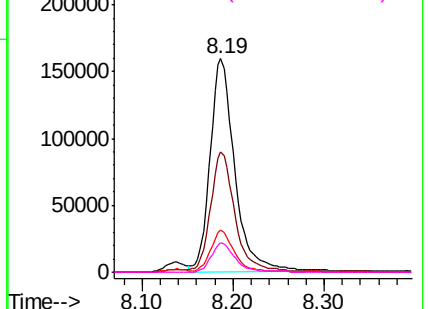
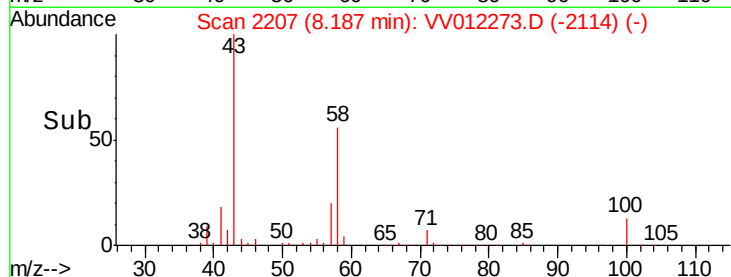
#48
2-Hexanone
Concen: 45.872 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV012273.D
Acq: 16 Aug 2019 16:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

Tgt Ion:	43	Resp:	300377
Ion	Ratio	Lower	Upper
43	100		
58	57.5	43.0	64.4
57	18.5	14.9	22.3
100	13.2	10.3	15.5

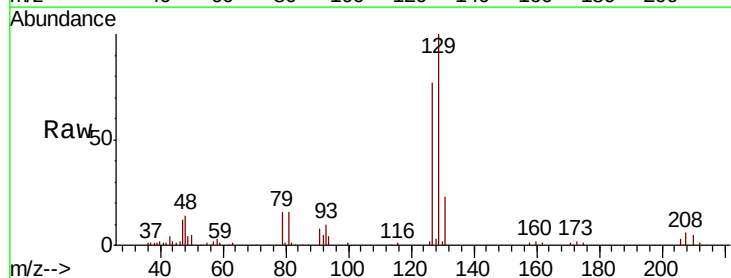


Abundance Ion 43.05 (42.75 to 43.75): VV012273.D (-2114) (-)
Ion 58.05 (57.75 to 58.75): VV012273.D (-2114) (-)
Ion 57.20 (56.90 to 57.90): VV012273.D (-2114) (-)
Ion 100.15 (99.85 to 100.85): VV012273.D (-2114) (-)

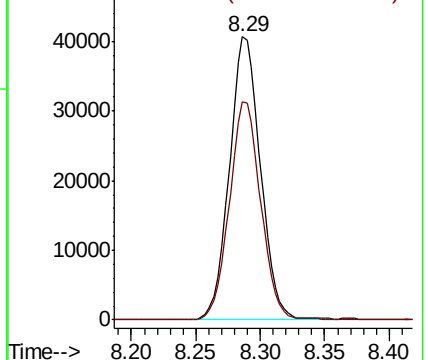
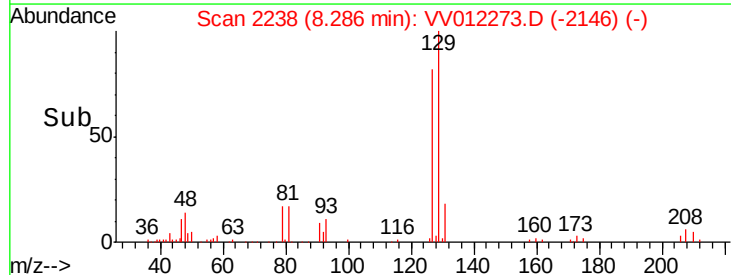


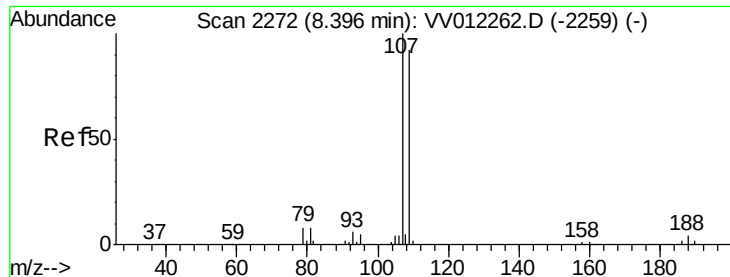
#49
Dibromochloromethane
Concen: 4.859 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV012273.D
Acq: 16 Aug 2019 16:53

Tgt Ion:	129	Resp:	67996
Ion	Ratio	Lower	Upper
129	100		
127	77.0	51.0	94.8



Abundance Ion 128.95 (128.65 to 129.65): VV012273.D (-2146) (-)
Ion 126.90 (126.60 to 127.60): VV012273.D (-2146) (-)

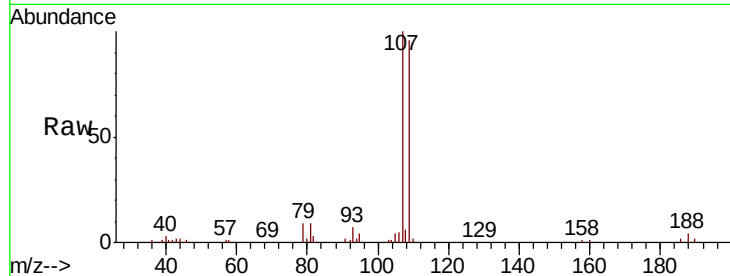




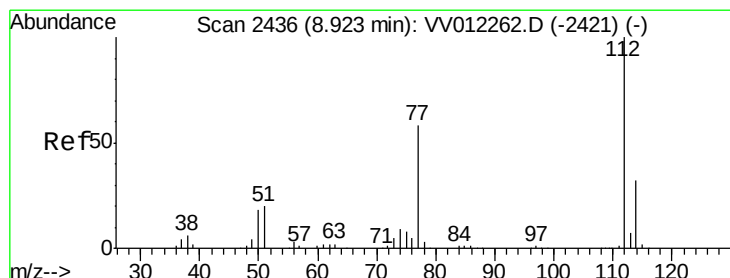
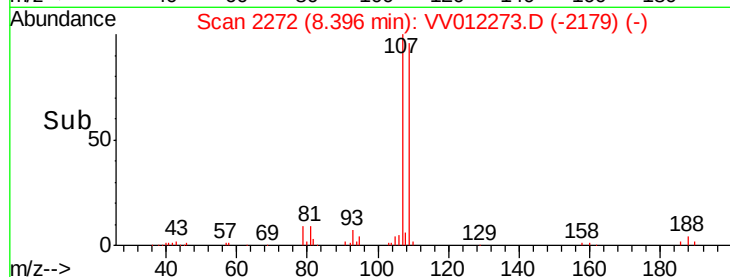
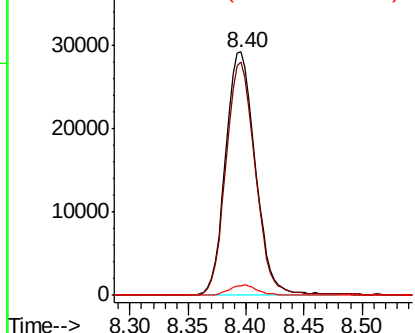
#50
 1,2-Dibromoethane
 Concen: 4.767 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

Tgt Ion:107 Resp: 51903
 Ion Ratio Lower Upper
 107 100
 109 95.8 67.3 125.1
 188 4.1 3.4 5.0

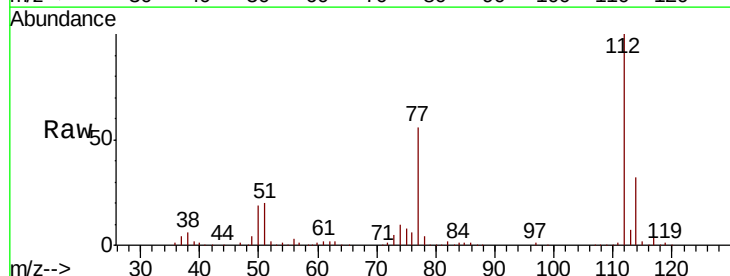


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

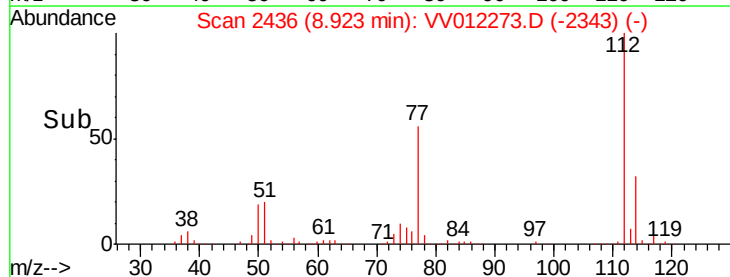
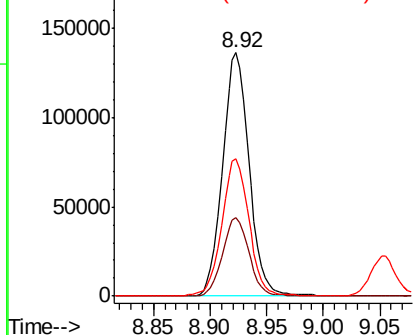


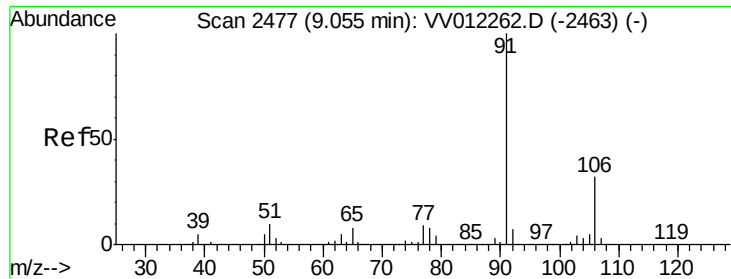
#51
 Chlorobenzene
 Concen: 4.777 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Tgt Ion:112 Resp: 222860
 Ion Ratio Lower Upper
 112 100
 114 32.0 22.8 42.4
 77 56.3 45.4 68.2



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 4.879 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

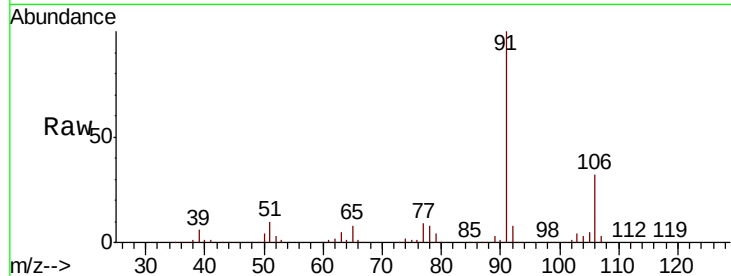
VSTD00544

Tgt Ion: 91 Resp: 374664

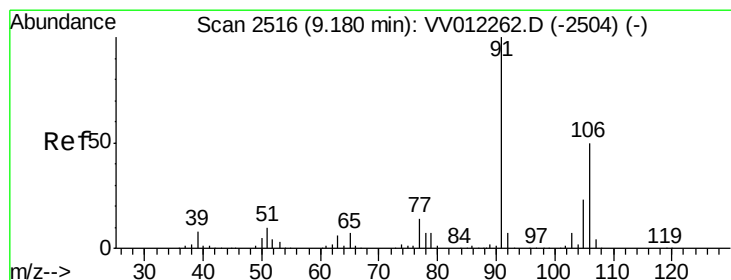
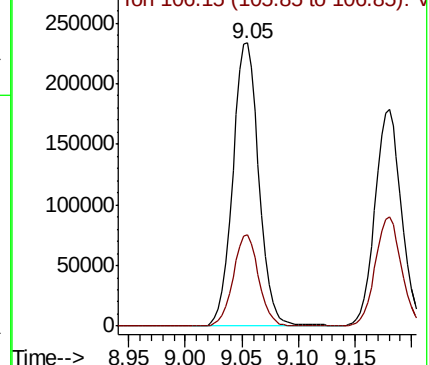
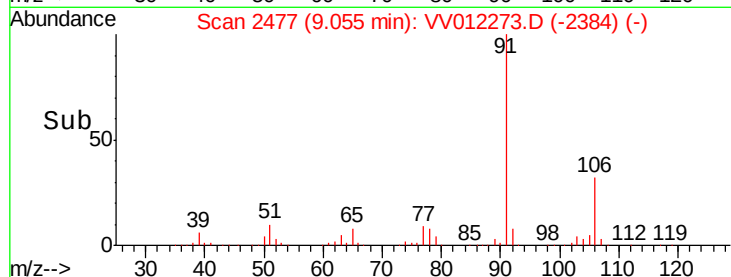
Ion Ratio Lower Upper

91 100

106 32.2 22.3 41.3



Abundance Ion 91.15 (90.85 to 91.85): VV012273.D (-2384) (-)



#53

m,p-xylene

Concen: 4.943 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012273.D

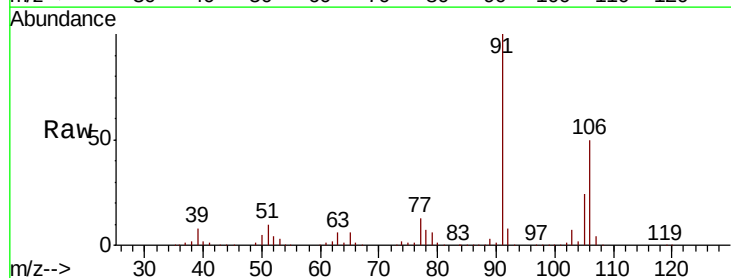
Acq: 16 Aug 2019 16:53

Tgt Ion: 106 Resp: 145739

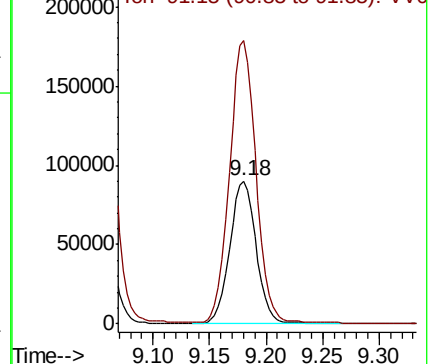
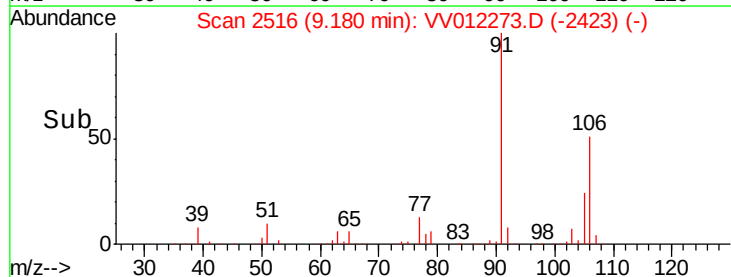
Ion Ratio Lower Upper

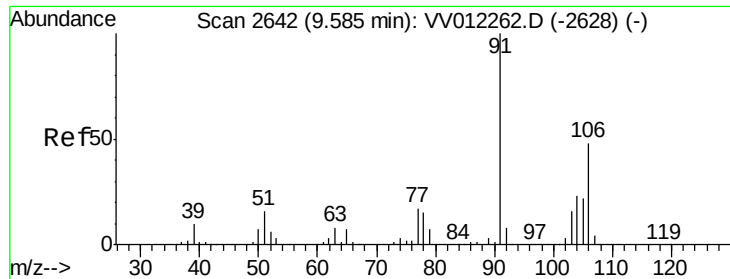
106 100

91 198.2 137.5 255.3



Abundance Ion 106.15 (105.85 to 106.85): VV012273.D (-2423) (-)





#54

o-xylene

Concen: 4.953 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

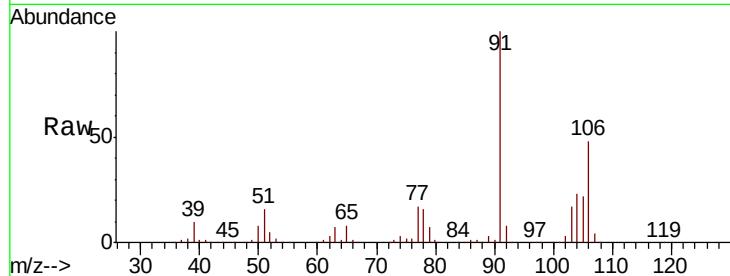
VSTD00544

Tgt Ion:106 Resp: 138222

Ion Ratio Lower Upper

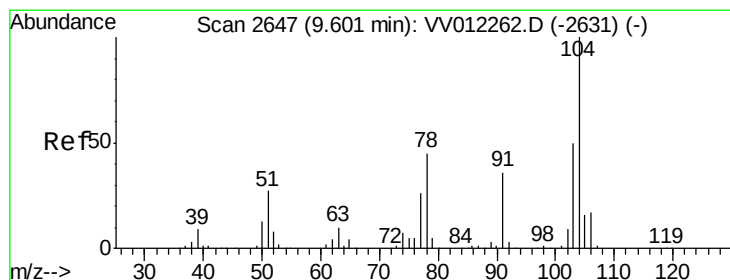
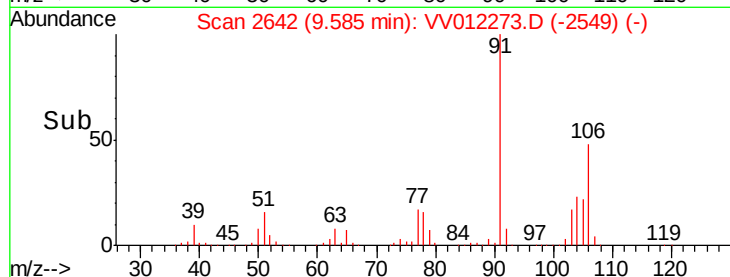
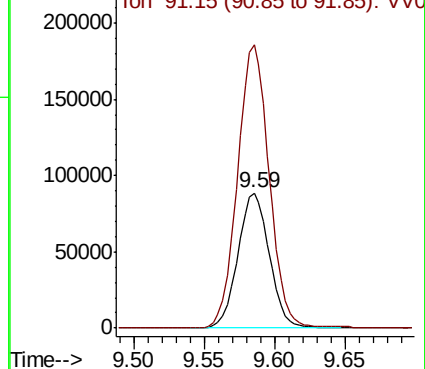
106 100

91 209.0 151.1 280.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.135 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012273.D

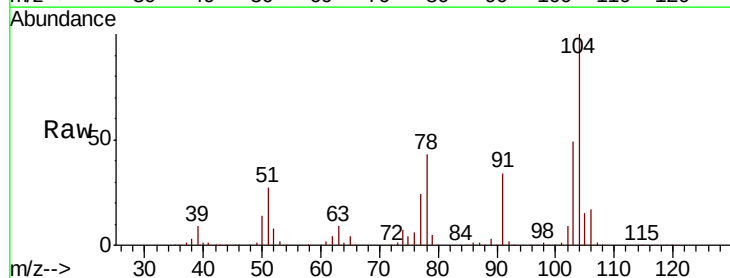
Acq: 16 Aug 2019 16:53

Tgt Ion:104 Resp: 239485

Ion Ratio Lower Upper

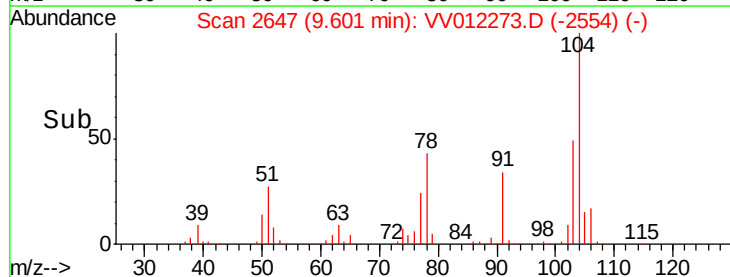
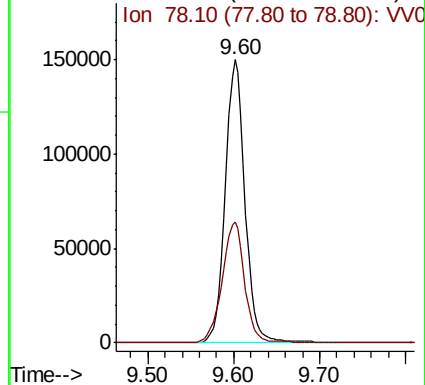
104 100

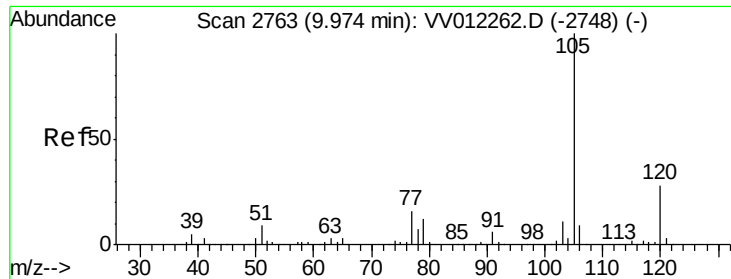
78 42.8 30.3 56.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.947 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

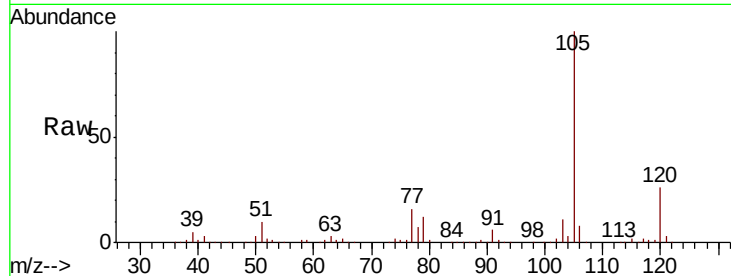
Tgt Ion: 105 Resp: 369231

Ion Ratio Lower Upper

105 100

120 26.3 22.0 33.0

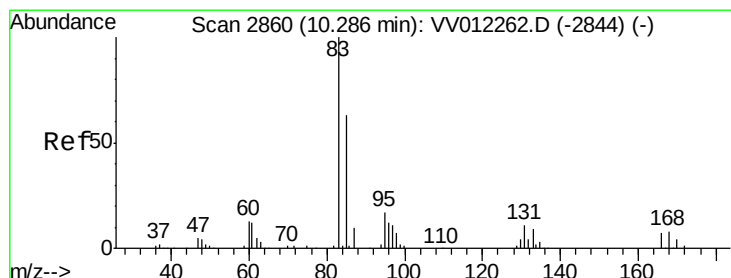
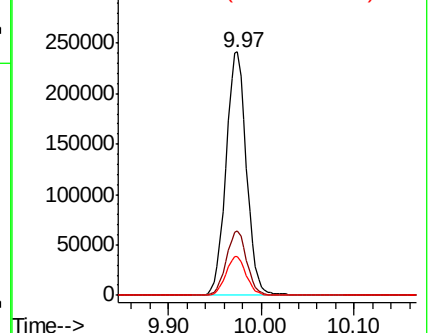
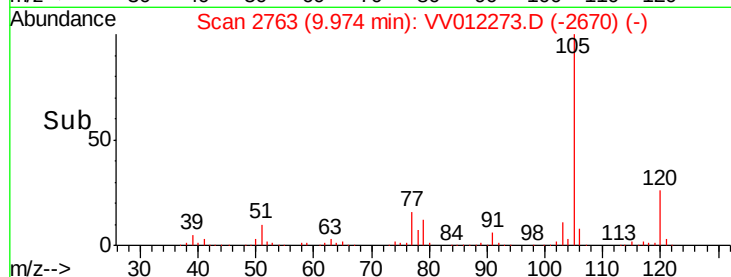
77 16.1 12.5 18.7



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: 4.698 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

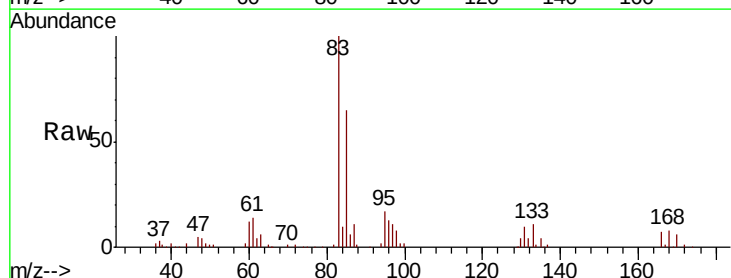
Tgt Ion: 83 Resp: 61430

Ion Ratio Lower Upper

83 100

85 64.7 45.0 83.6

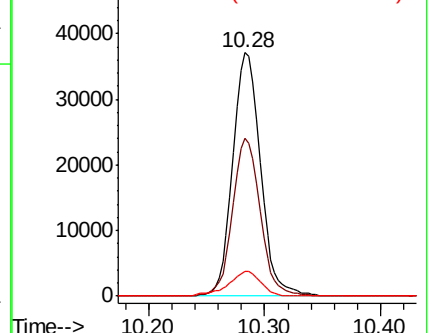
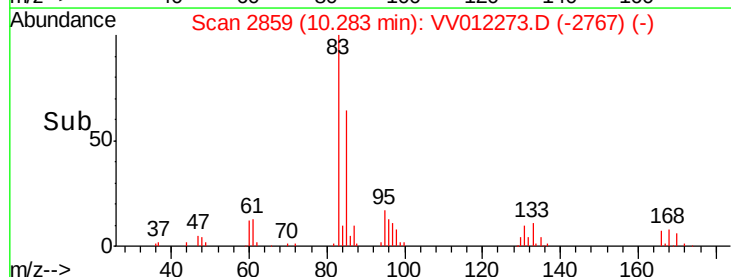
131 10.3 8.3 12.5

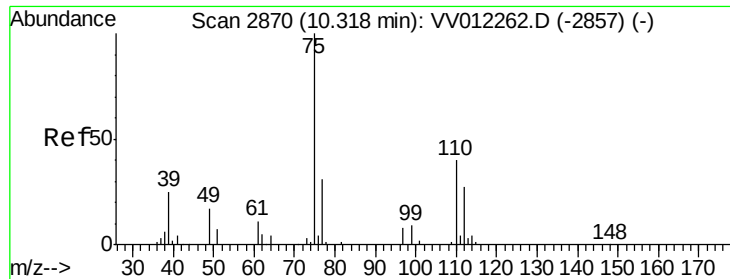


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.974 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

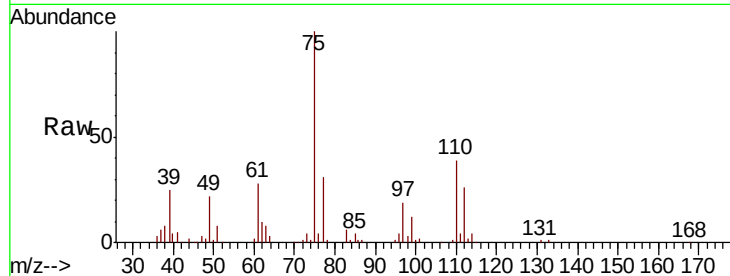
VSTD00544

Tgt Ion: 75 Resp: 47686

Ion Ratio Lower Upper

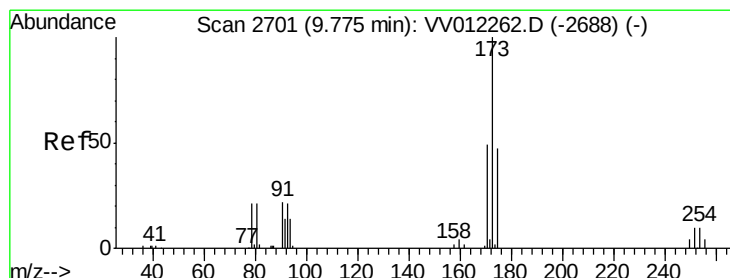
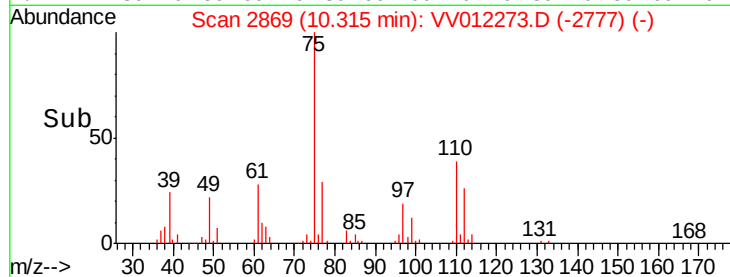
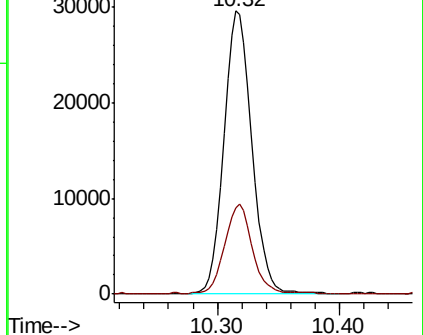
75 100

77 31.5 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VV012262.D (-2857) (-)

Ion 77.00 (76.70 to 77.70): VV012262.D (-2857) (-)



#61

Bromoform

Concen: 4.685 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

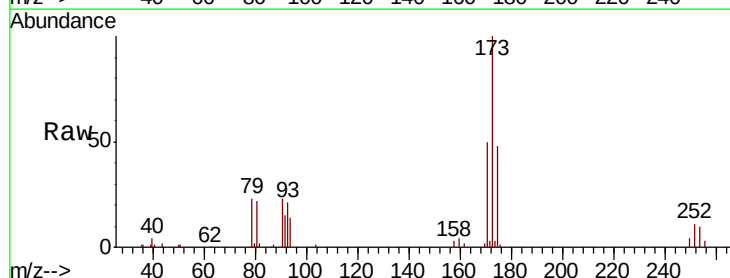
Tgt Ion: 173 Resp: 34828

Ion Ratio Lower Upper

173 100

175 49.8 38.8 58.2

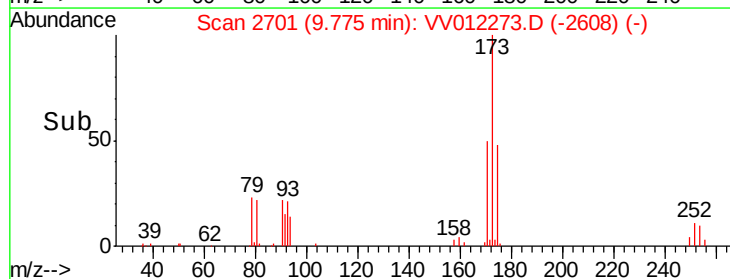
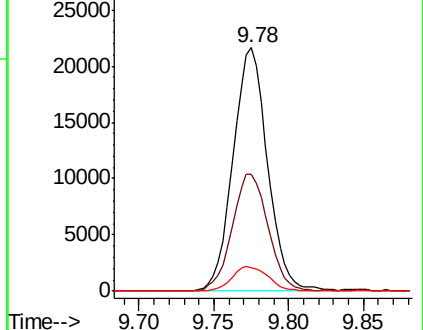
254 10.5 7.6 11.4

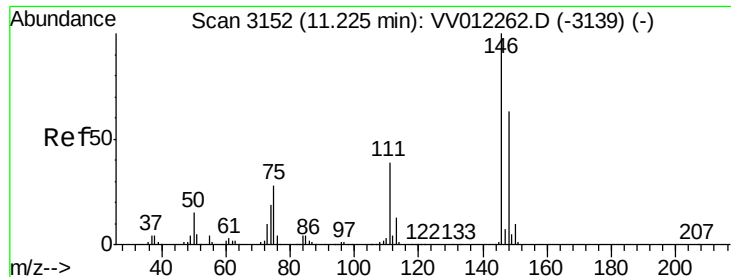


Abundance Ion 172.90 (172.60 to 173.60): VV012262.D (-2688) (-)

Ion 174.90 (174.60 to 175.60): VV012262.D (-2688) (-)

Ion 253.75 (253.45 to 254.45): VV012262.D (-2688) (-)





#62

1,3-Dichlorobenzene

Concen: 4.627 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampled :

VSTD00544

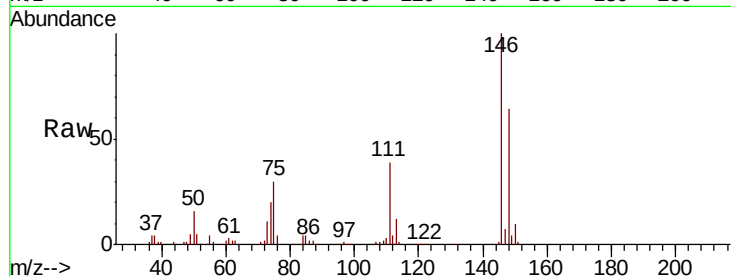
Tgt Ion:146 Resp: 177617

Ion Ratio Lower Upper

146 100

111 39.3 26.9 50.1

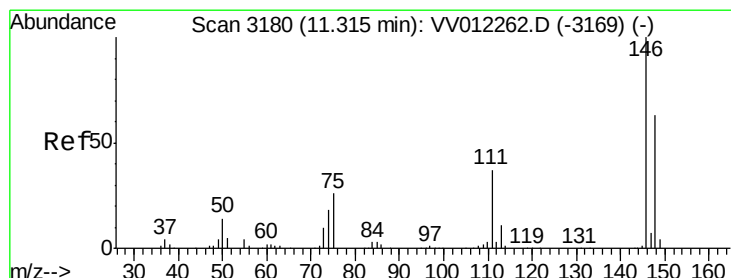
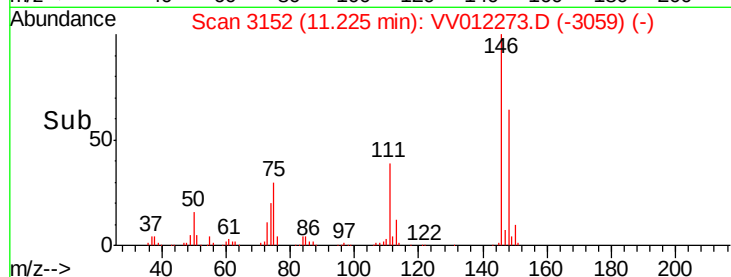
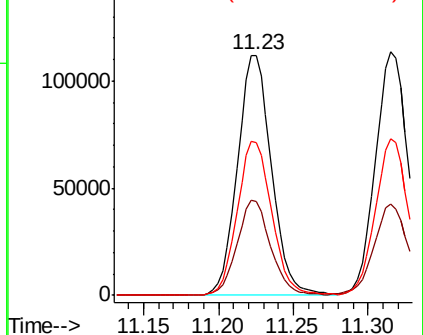
148 63.7 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.630 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

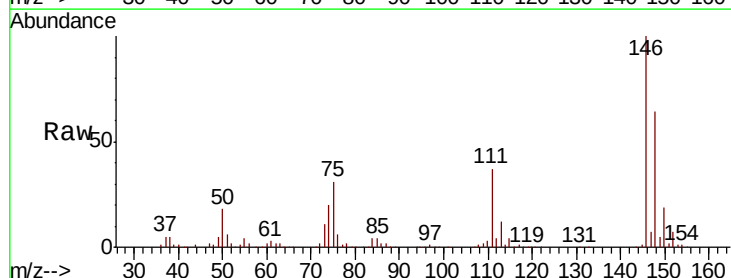
Tgt Ion:146 Resp: 177123

Ion Ratio Lower Upper

146 100

111 37.3 27.0 50.2

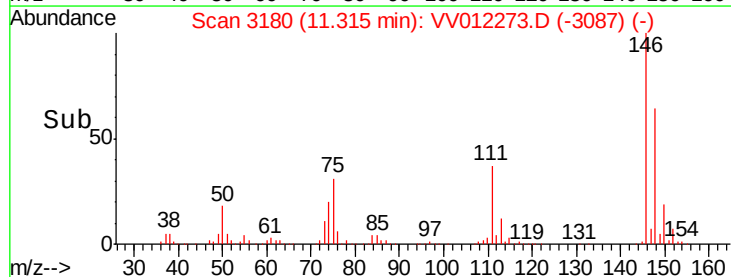
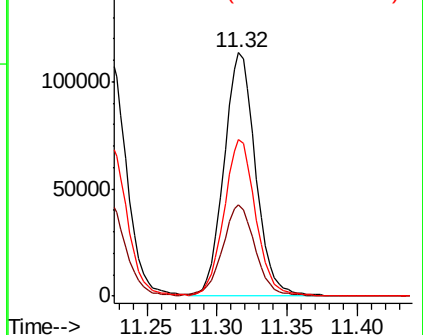
148 64.3 44.5 82.7

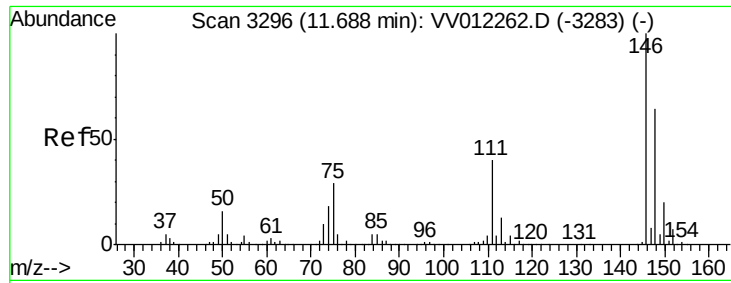


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.736 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

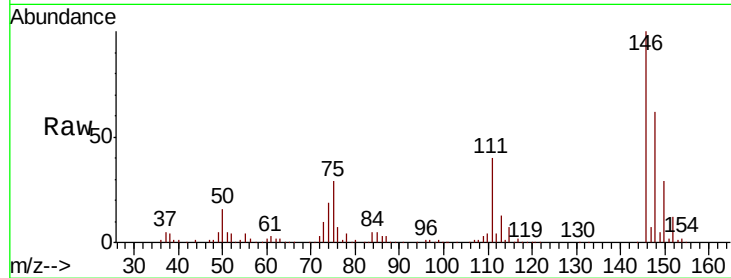
Tgt Ion:146 Resp: 166800

Ion Ratio Lower Upper

146 100

111 40.2 33.0 49.4

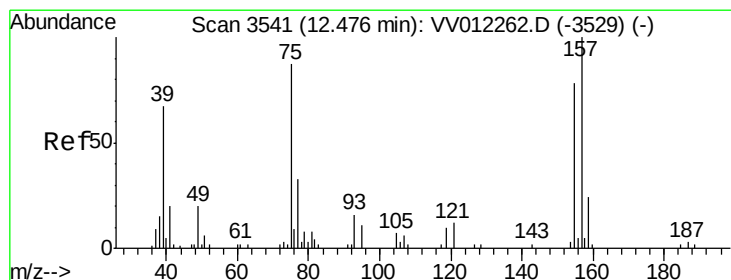
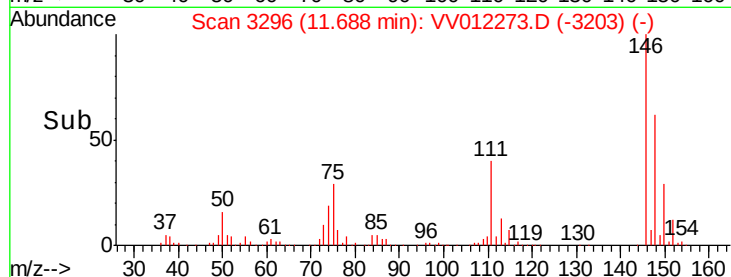
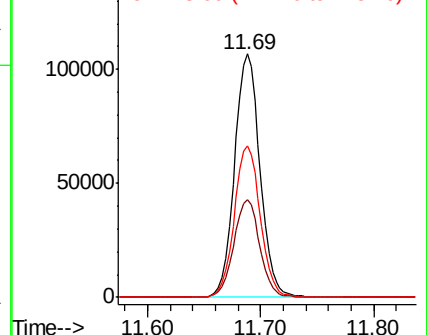
148 62.2 51.1 76.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.193 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

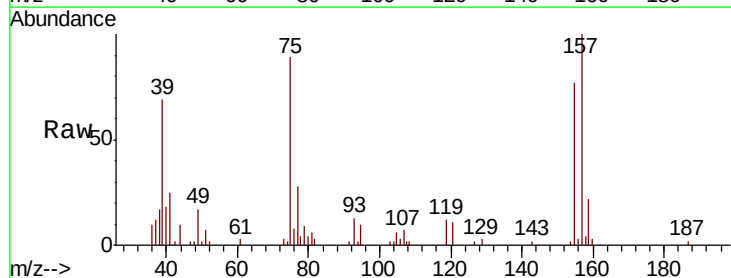
Tgt Ion: 75 Resp: 9403

Ion Ratio Lower Upper

75 100

155 85.6 70.8 106.2

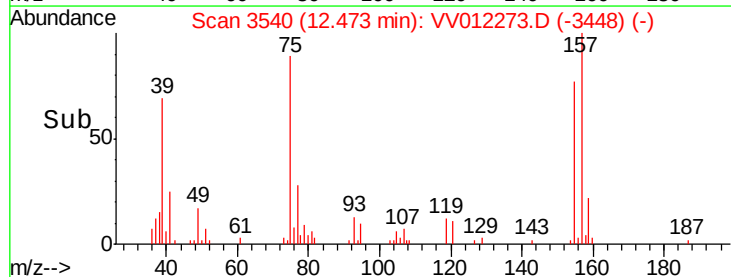
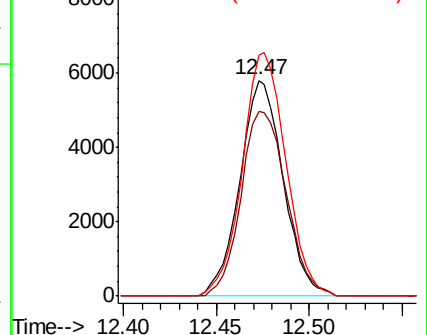
157 111.8 83.5 125.3

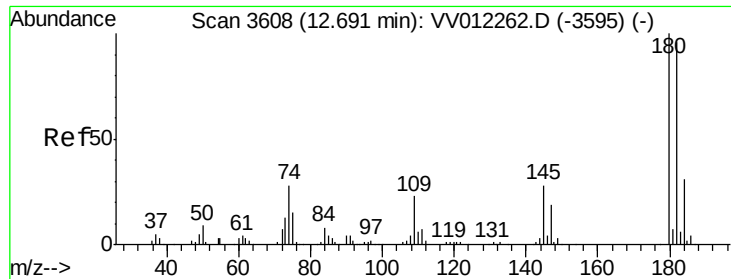


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

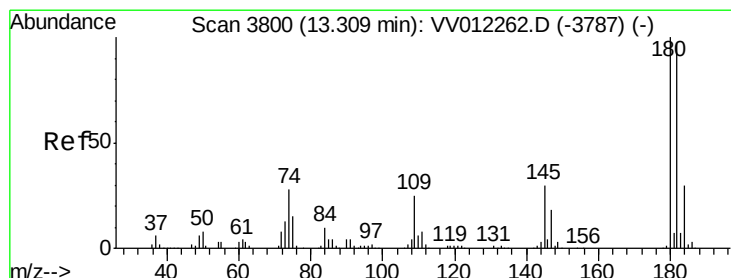
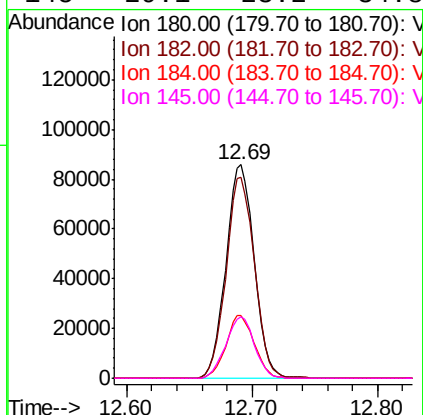
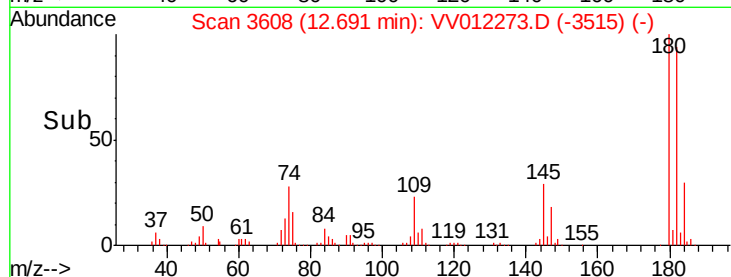
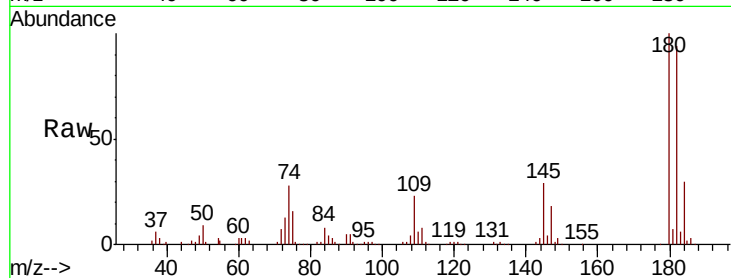




#67
 1,3,5-Trichlorobenzene
 Concen: 4.612 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

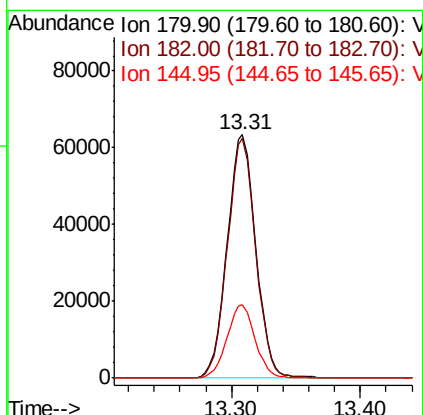
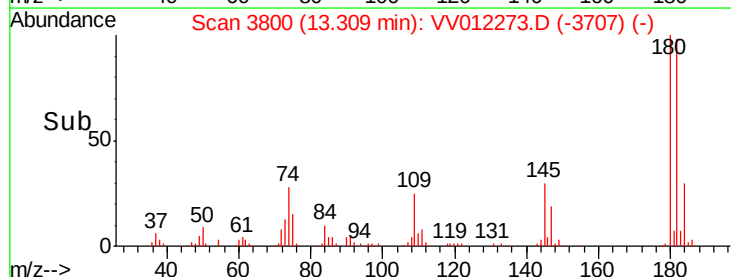
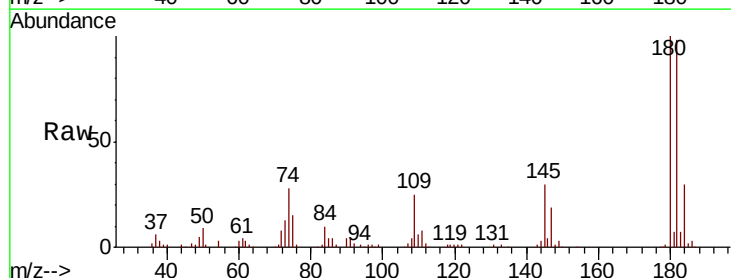
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

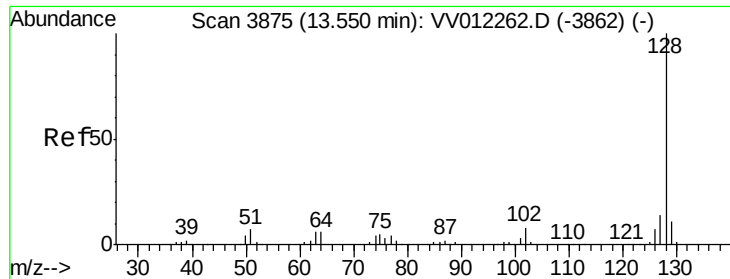
Tgt Ion:	180	Resp:	133696
Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.3	114.5
184	29.4	24.6	36.8
145	29.1	23.2	34.8



#68
 1,2,4-trichlorobenzene
 Concen: 4.535 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012273.D
 Acq: 16 Aug 2019 16:53

Tgt Ion:	180	Resp:	97706
Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.2	115.8
145	29.5	23.9	35.9





#69

Naphthalene

Concen: 4.527 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

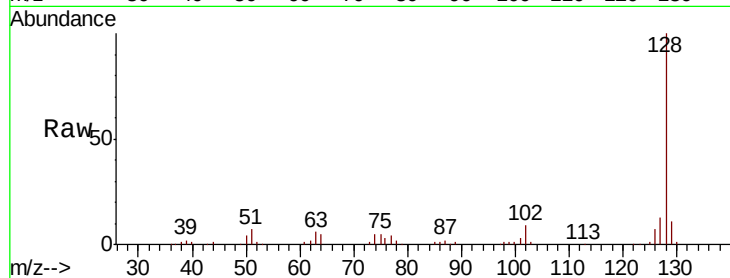
Tgt Ion:128 Resp: 141001

Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

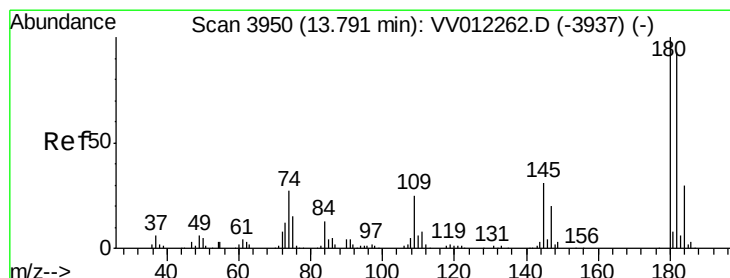
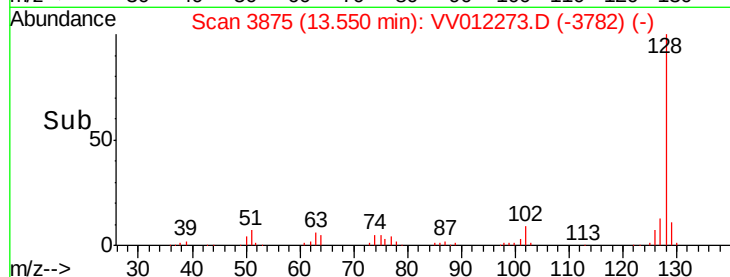
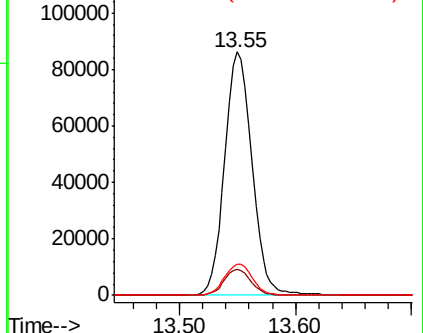
127 13.0 10.1 15.1



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: 4.681 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012273.D

Acq: 16 Aug 2019 16:53

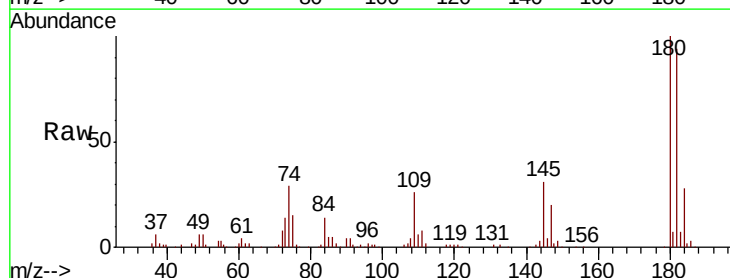
Tgt Ion:180 Resp: 95236

Ion Ratio Lower Upper

180 100

182 94.4 75.0 112.4

145 30.7 24.8 37.2



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

