

Data File : VV009957.D
Acq On : 28 Mar 2019 05:09
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

Quant Time: Mar 28 07:23:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:17:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	182675	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	184865	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	81486	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	71292	19.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.92%
7) Chloroethane-d5	1.56	69	83754	20.92	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.68%
10) 1,1-Dichloroethene-d2	2.12	63	203273	20.05	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	80.20%
20) 2-Butanone-d5	3.92	46	36266	52.50	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.00%
24) Chloroform-d	4.39	84	110355	23.71	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.84%
26) 1,2-Dichloroethane-d4	5.07	65	73852	26.37	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.48%
29) Benzene-d6	5.09	84	240065	24.73	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.92%
33) 1,2-Dichloropropane-d6	6.11	67	75411	26.55	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	106.20%
37) Toluene-d8	7.36	98	220029	23.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.76%
38) trans-1,3-Dichloropropene-	7.66	79	26730	23.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.00%
39) 2-Hexanone-d5	8.13	63	26375	49.75	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.50%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	68965	24.52	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.08%
61) 1,2-Dichlorobenzene-d4	11.67	152	73871	23.81	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.24%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.13	85	52986	18.735	ug/L 100
3) Chloromethane	1.24	50	65358	19.997	ug/L 99
5) Vinyl chloride	1.32	62	89842	21.140	ug/L 95
6) Bromomethane	1.51	94	88439	20.864	ug/L 99
8) Chloroethane	1.58	64	76518	20.901	ug/L 99
9) Trichlorofluoromethane	1.75	101	203945	22.503	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	2.12	101	94982	18.031	ug/L 98
12) 1,1-Dichloroethene	2.13	96	85034	19.028	ug/L 91
13) Acetone	2.18	43	28855	27.590	ug/L 89
14) Carbon disulfide	2.31	76	128823	21.307	ug/L 100
15) Methyl Acetate	2.45	43	32638	26.642	ug/L 97
16) Methylene chloride	2.53	84	77106	25.631	ug/L 98
17) Methyl tert-butyl Ether	2.80	73	162700	27.903	ug/L 97
18) trans-1,2-Dichloroethene	2.78	96	60151	25.130	ug/L 92
19) 1,1-Dichloroethane	3.22	63	114210	26.092	ug/L 97
21) 2-Butanone	4.01	43	38277	41.094	ug/L 86
22) cis-1,2-Dichloroethene	3.95	96	70861	26.812	ug/L 92

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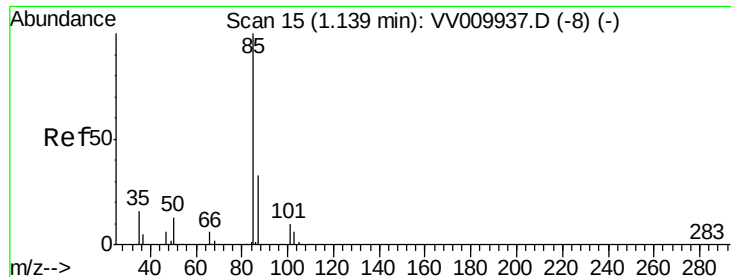
Quant Time: Mar 28 07:23:47 2019
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Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:17:22 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	33934	27.807	ug/L	98
25) Chloroform	4.42	83	145738	30.112	ug/L	99
27) 1,2-Dichloroethane	5.17	62	92744	27.046	ug/L	98
30) Cyclohexane	4.72	56	78445	21.045	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	94068	25.426	ug/L	97
32) Carbon tetrachloride	4.87	117	76951	23.930	ug/L	98
34) Benzene	5.14	78	262881	25.896	ug/L	100
35) Trichloroethene	5.95	95	65927	24.621	ug/L	98
36) Methylcyclohexane	6.17	83	86090	20.492	ug/L	95
40) 1,2-Dichloropropane	6.22	63	69898	27.555	ug/L #	93
41) Bromodichloromethane	6.55	83	90315	28.629	ug/L	97
42) cis-1,3-Dichloropropene	7.07	75	93162	25.190	ug/L	94
43) 4-Methyl-2-pentanone	7.27	43	94858	52.401	ug/L	100
44) Toluene	7.43	91	281286	25.134	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	81566	26.942	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	55589	26.496	ug/L	96
47) Tetrachloroethene	8.02	164	48478	22.943	ug/L	98
49) 2-Hexanone	8.18	43	60760	49.663	ug/L	99
50) Dibromochloromethane	8.29	129	58284	26.792	ug/L	93
51) 1,2-Dibromoethane	8.40	107	53333	26.181	ug/L #	95
52) Chlorobenzene	8.92	112	182130	24.446	ug/L	98
53) Ethylbenzene	9.05	91	301556	24.427	ug/L	100
54) m,p-Xylene	9.18	106	113753	23.461	ug/L	92
55) o-xylene	9.59	106	113585	24.134	ug/L	89
56) Styrene	9.60	104	197486	24.430	ug/L	98
57) Isopropylbenzene	9.97	105	284531	23.304	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	71100	25.142	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	50691	24.837	ug/L	99
62) Bromoform	9.77	173	28138	26.846	ug/L	96
63) 1,3-Dichlorobenzene	11.23	146	126556	25.110	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	132970	24.276	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	125446	25.220	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	7917	25.466	ug/L	86
67) 1,3,5-Trichlorobenzene	12.69	180	84933	23.729	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	65448	24.788	ug/L	99
69) Naphthalene	13.55	128	107816	24.566	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	64647	25.750	ug/L	97

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

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#2

Dichlorodifluoromethane

Concen: 18.735 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.01 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

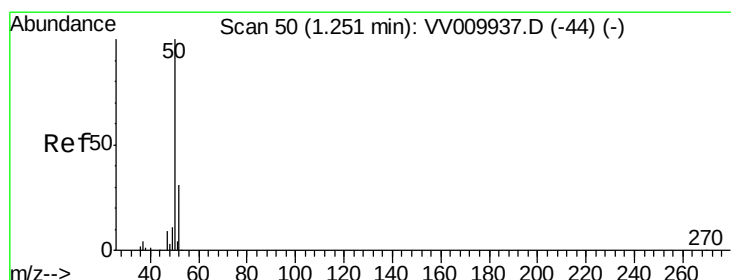
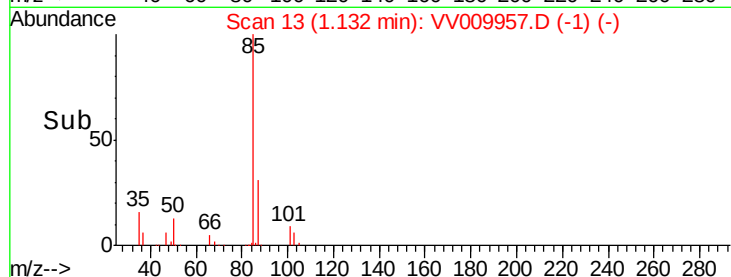
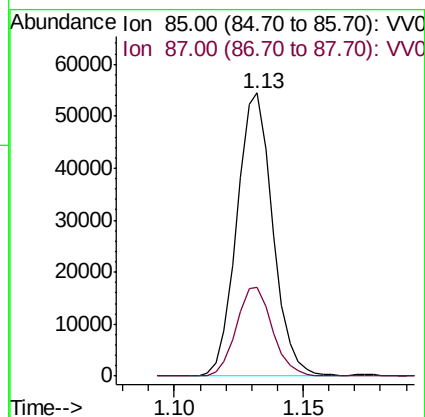
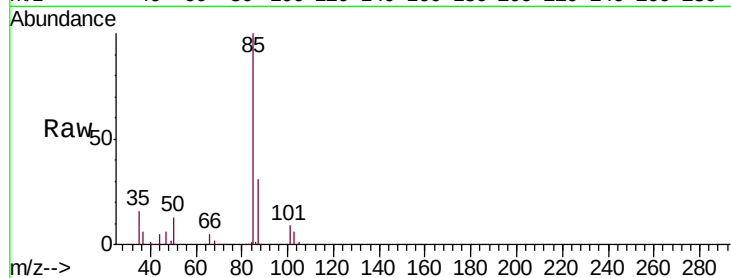
VSTD02568

Tgt Ion: 85 Resp: 52986

Ion Ratio Lower Upper

85 100

87 31.6 22.2 41.2



#3

Chloromethane

Concen: 19.997 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.01 min

Lab File: VV009957.D

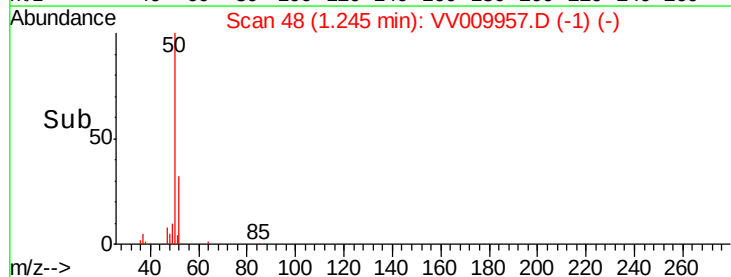
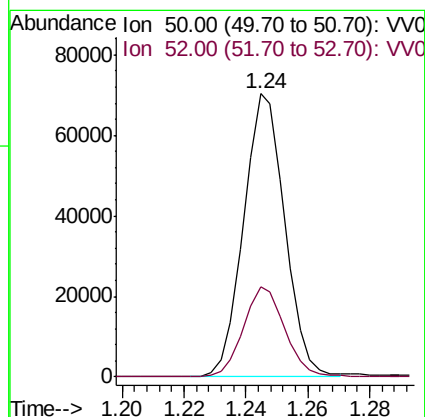
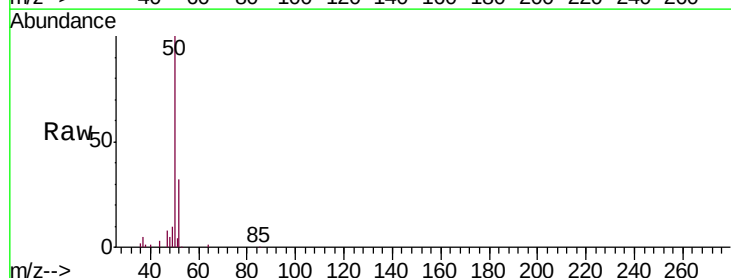
Acq: 28 Mar 2019 05:09

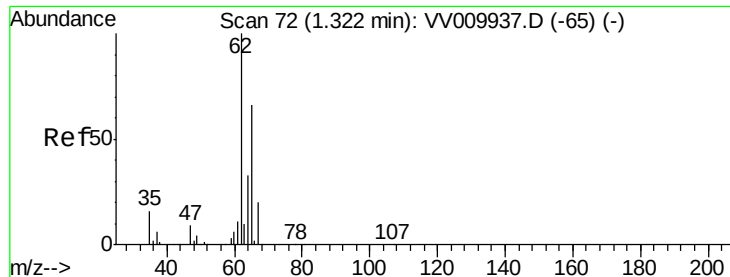
Tgt Ion: 50 Resp: 65358

Ion Ratio Lower Upper

50 100

52 32.0 21.8 40.6





#5

Vinyl chloride

Concen: 21.140 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

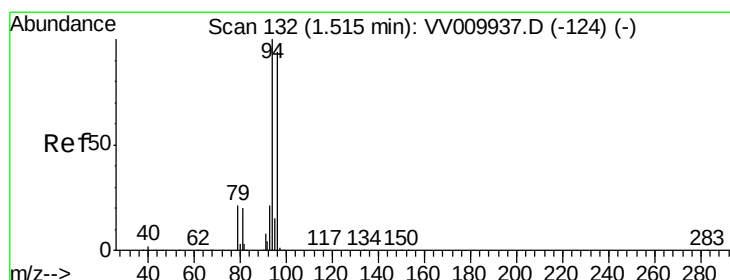
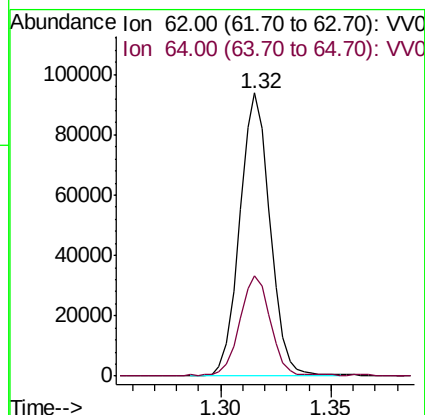
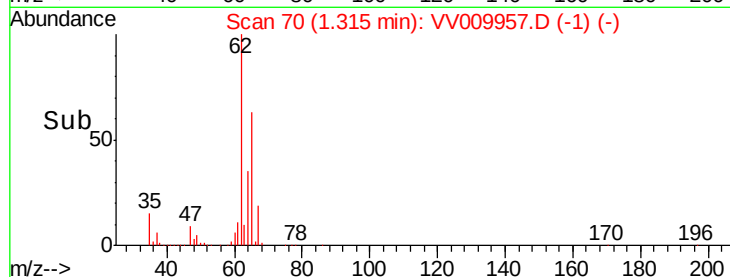
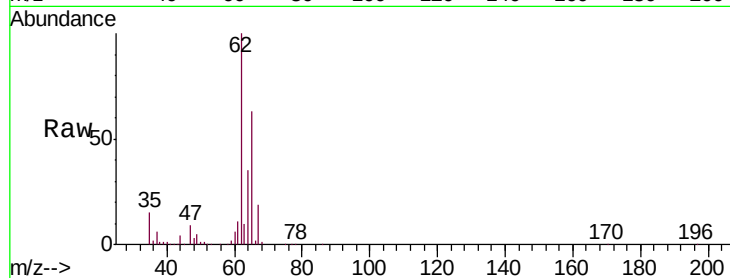
VSTD02568

Tgt Ion: 62 Resp: 89842

Ion Ratio Lower Upper

62 100

64 35.5 22.8 42.4



#6

Bromomethane

Concen: 20.864 ug/L

RT: 1.51 min Scan# 129

Delta R.T. -0.01 min

Lab File: VV009957.D

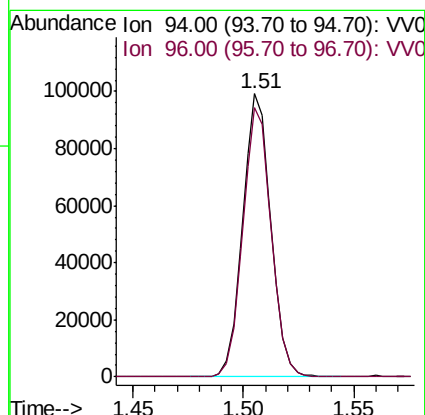
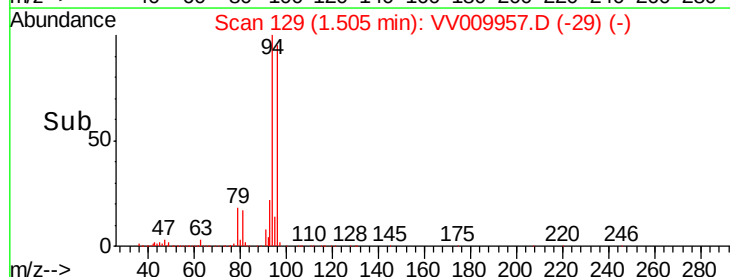
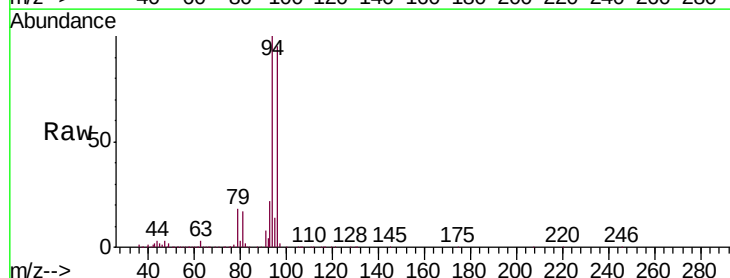
Acq: 28 Mar 2019 05:09

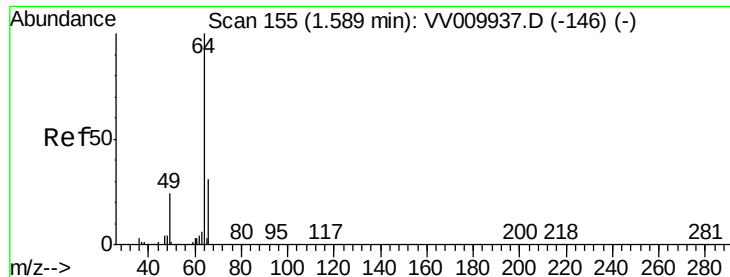
Tgt Ion: 94 Resp: 88439

Ion Ratio Lower Upper

94 100

96 95.4 9.4 179.4





#8

Chloroethane

Concen: 20.901 ug/L

RT: 1.58 min Scan# 151

Delta R.T. -0.01 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

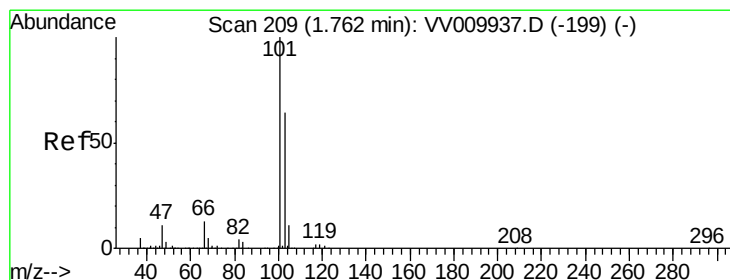
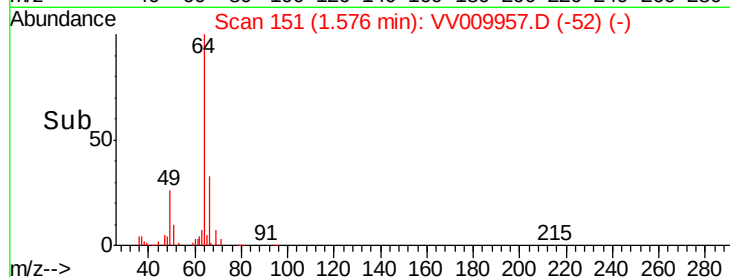
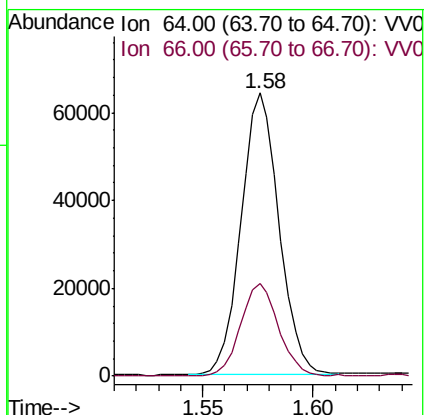
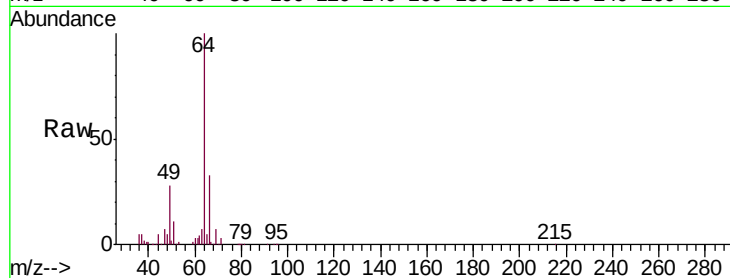
VSTD02568

Tgt Ion: 64 Resp: 76518

Ion Ratio Lower Upper

64 100

66 32.7 22.3 41.5



#9

Trichlorofluoromethane

Concen: 22.503 ug/L

RT: 1.75 min Scan# 206

Delta R.T. -0.01 min

Lab File: VV009957.D

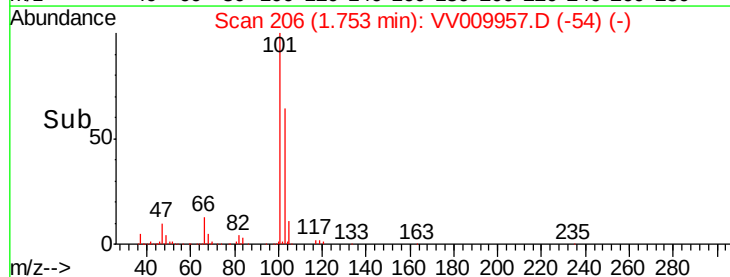
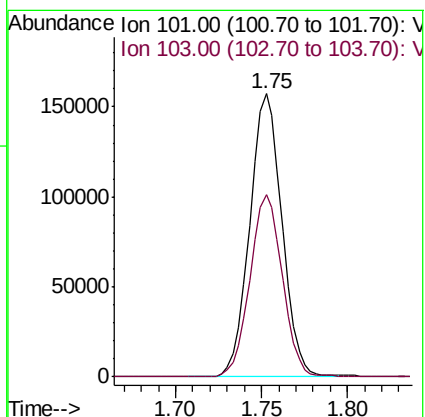
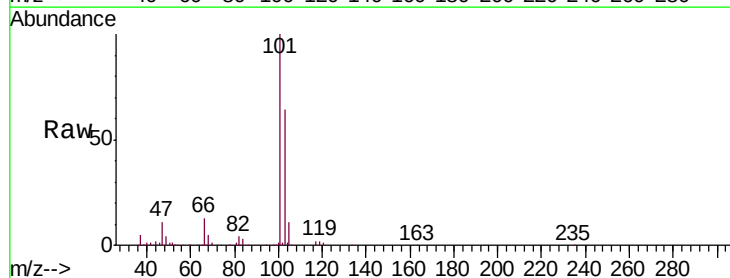
Acq: 28 Mar 2019 05:09

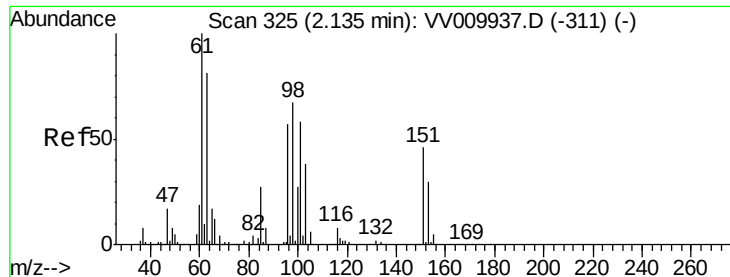
Tgt Ion: 101 Resp: 203945

Ion Ratio Lower Upper

101 100

103 64.8 45.1 83.9





#11

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

Concen: 18.031 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

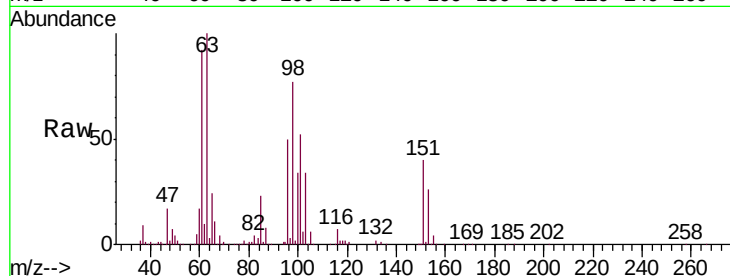
Tgt Ion:101 Resp: 94982

Ion Ratio Lower Upper

101 100

85 45.7 36.9 55.3

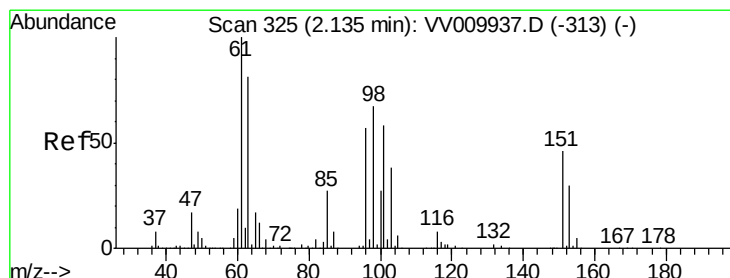
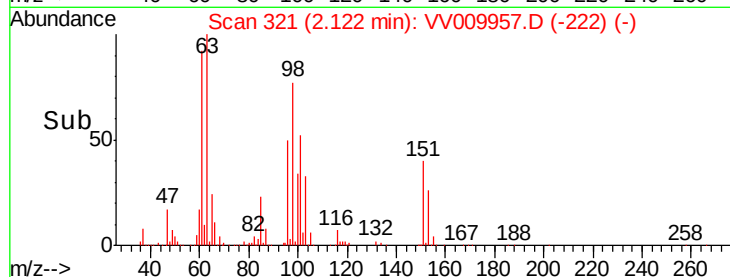
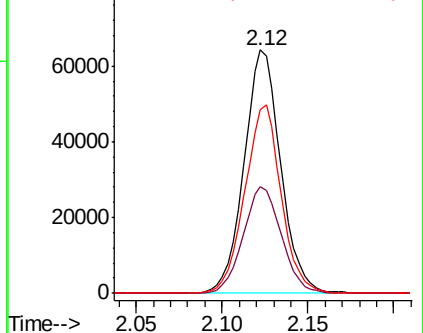
151 76.7 63.6 95.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 19.028 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

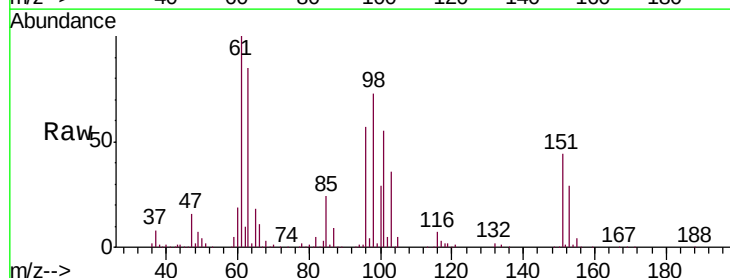
Tgt Ion: 96 Resp: 85034

Ion Ratio Lower Upper

96 100

61 174.1 124.3 230.8

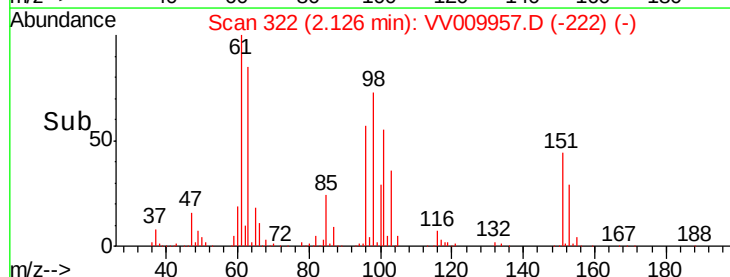
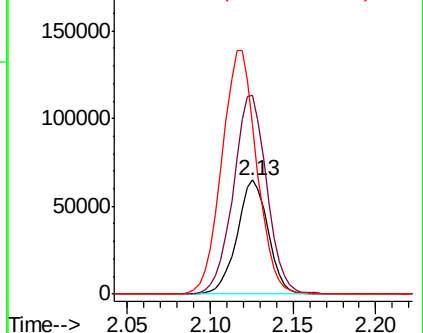
63 148.1 88.2 163.8

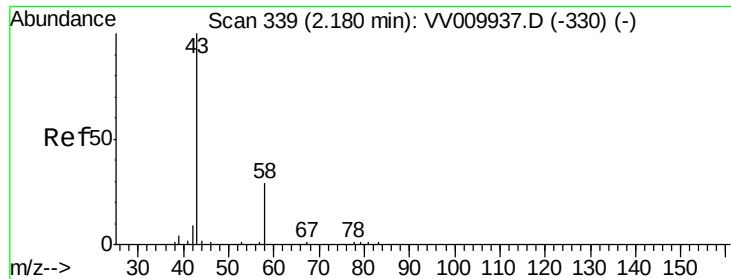


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 27.590 ug/L

RT: 2.18 min Scan# 339

Delta R.T. -0.00 min

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Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

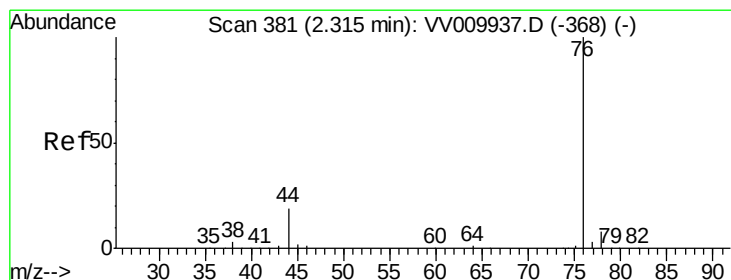
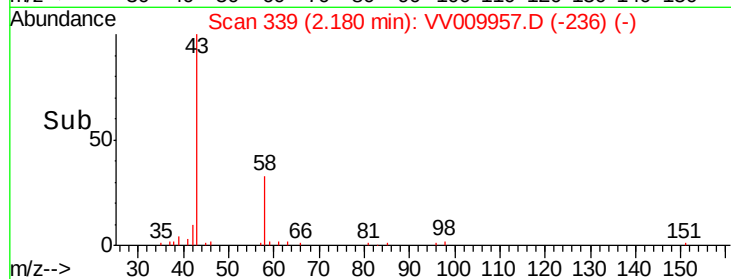
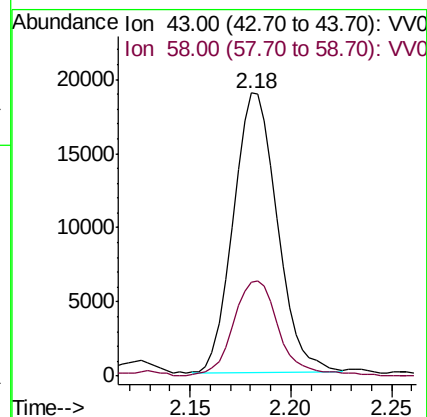
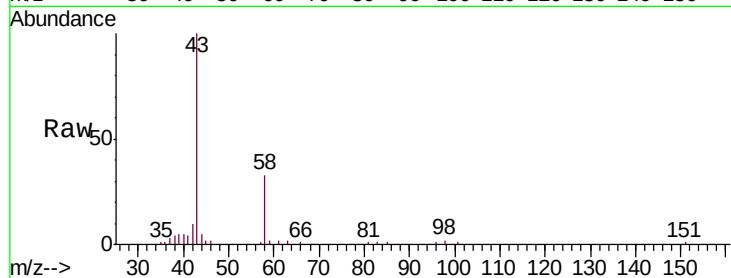
VSTD02568

Tgt Ion: 43 Resp: 28855

Ion Ratio Lower Upper

43 100

58 35.7 0.0 59.4



#14

Carbon disulfide

Concen: 21.307 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV009957.D

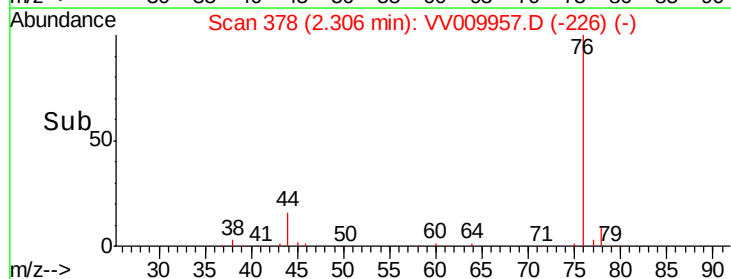
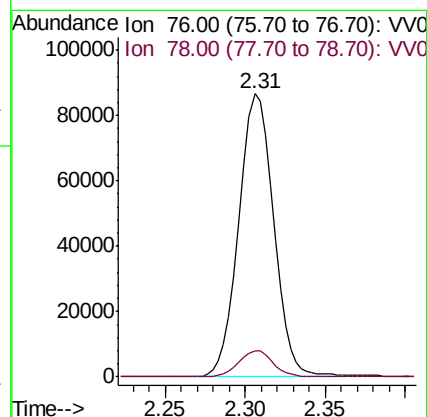
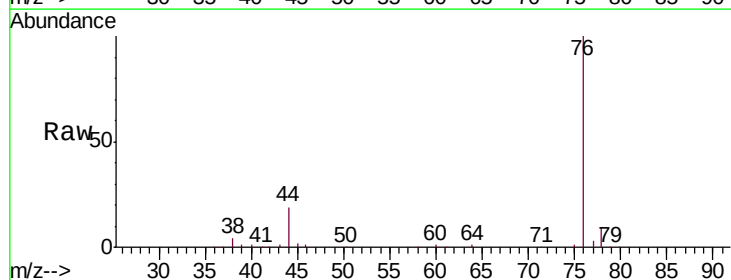
Acq: 28 Mar 2019 05:09

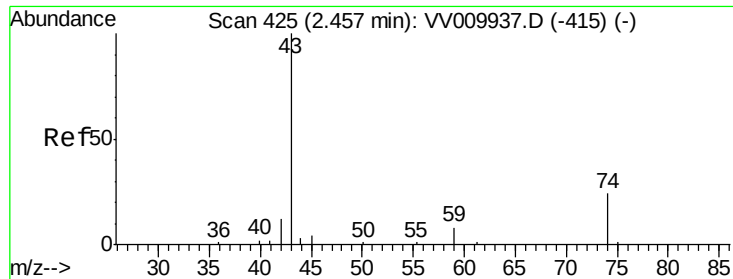
Tgt Ion: 76 Resp: 128823

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3

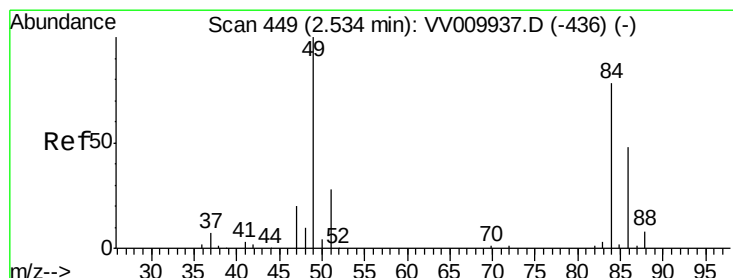
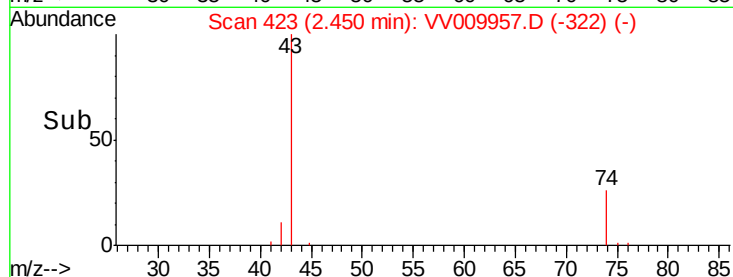
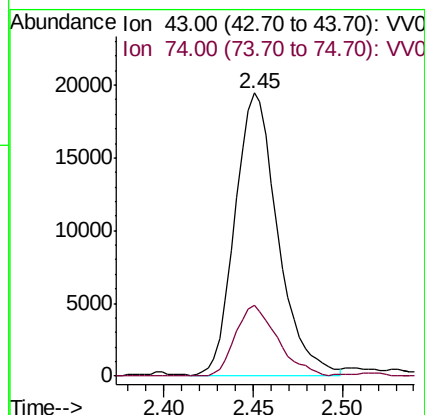
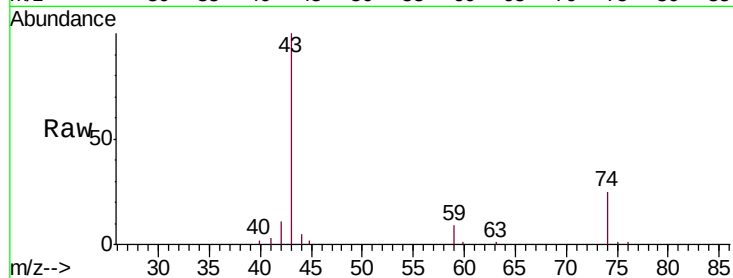




#15
Methyl Acetate
Concen: 26.642 ug/L
RT: 2.45 min Scan# 423
Delta R.T. -0.01 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

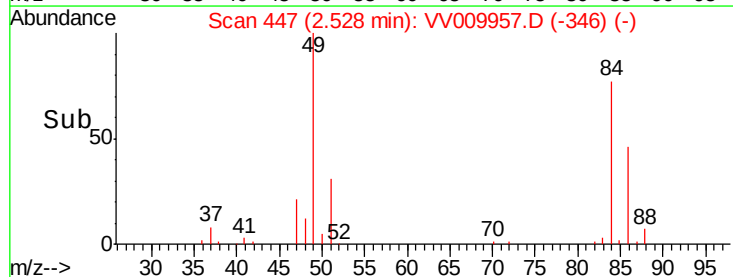
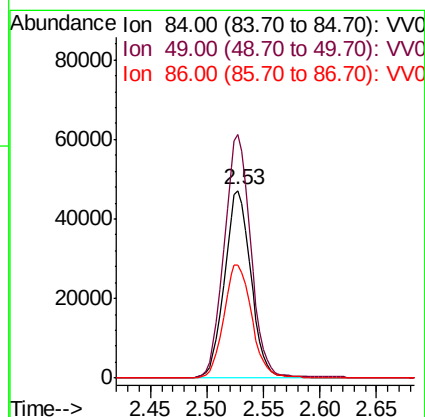
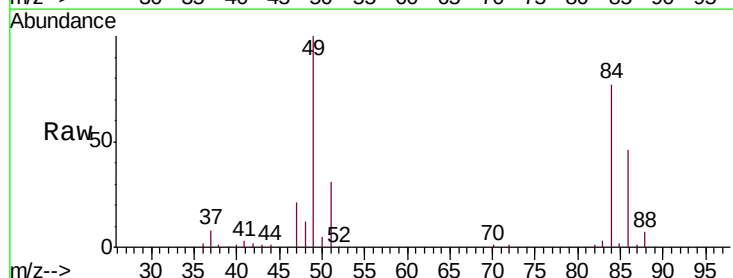
Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

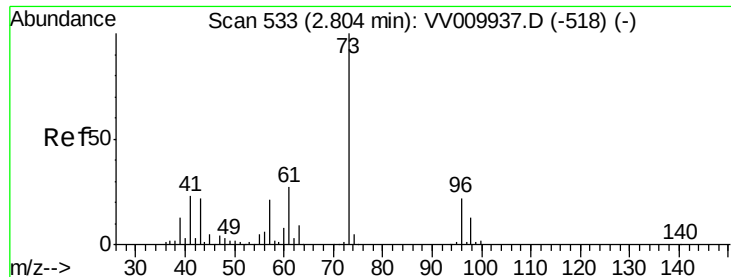
Tgt Ion: 43 Resp: 32638
Ion Ratio Lower Upper
43 100
74 24.5 20.9 31.3



#16
Methylene chloride
Concen: 25.631 ug/L
RT: 2.53 min Scan# 447
Delta R.T. -0.01 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

Tgt Ion: 84 Resp: 77106
Ion Ratio Lower Upper
84 100
49 129.7 90.4 167.8
86 60.0 44.0 81.6

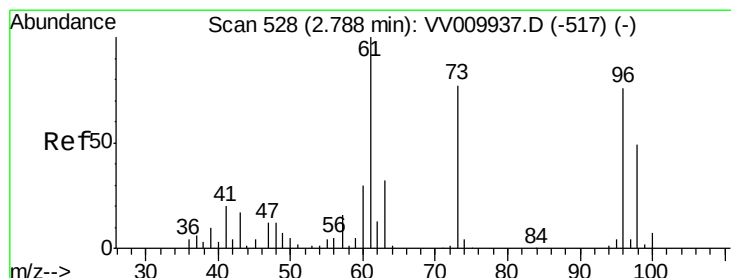
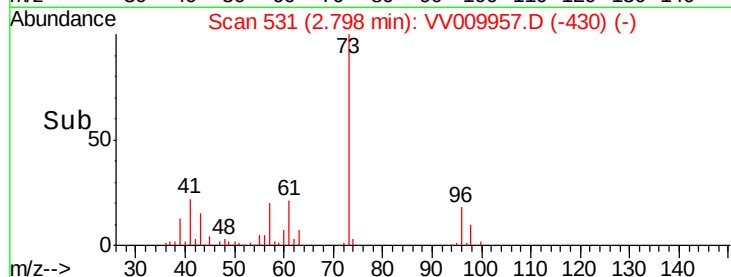
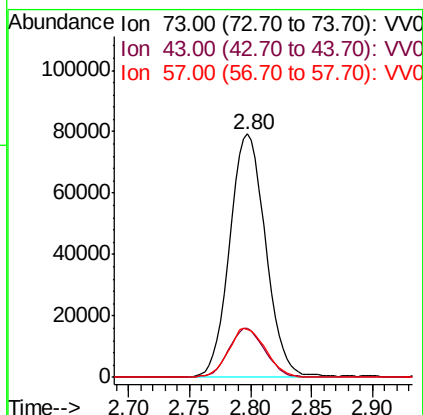
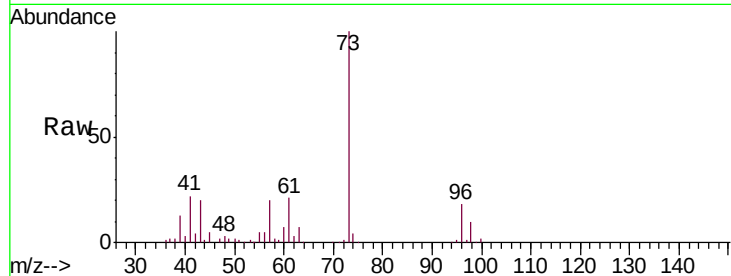




#17
Methyl tert-butyl Ether
Concen: 27.903 ug/L
RT: 2.80 min Scan# 531
Delta R.T. -0.01 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

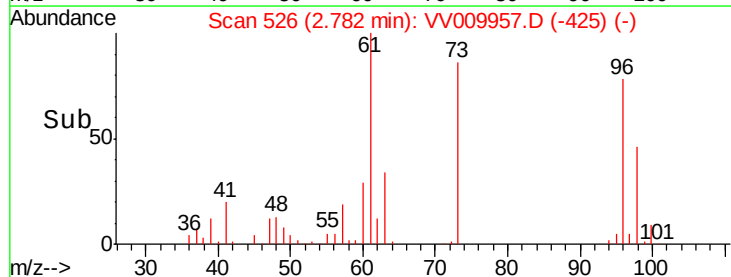
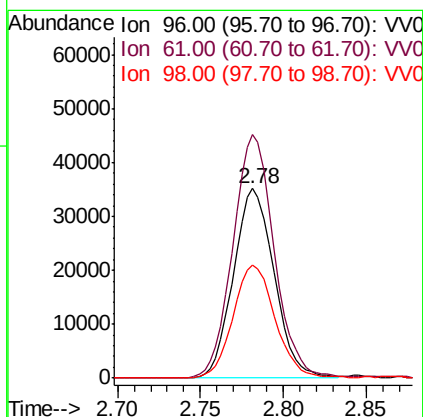
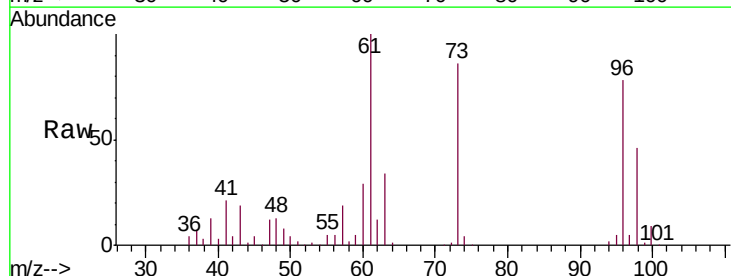
Instrument :
MSVOA_V
ClientSampled :
VSTD02568

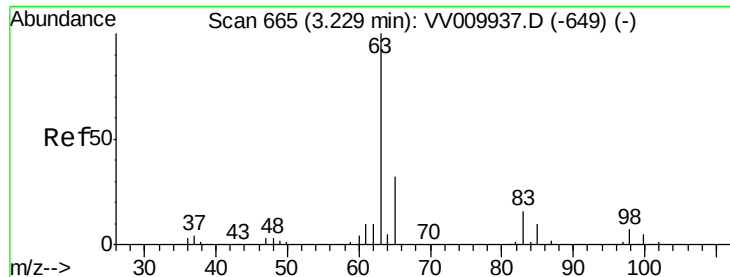
Tgt Ion: 73 Resp: 162700
Ion Ratio Lower Upper
73 100
43 20.1 17.0 25.6
57 20.8 18.0 27.0



#18
trans-1,2-Dichloroethene
Concen: 25.130 ug/L
RT: 2.78 min Scan# 526
Delta R.T. -0.01 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

Tgt Ion: 96 Resp: 60151
Ion Ratio Lower Upper
96 100
61 128.4 96.8 179.8
98 59.4 46.1 85.7

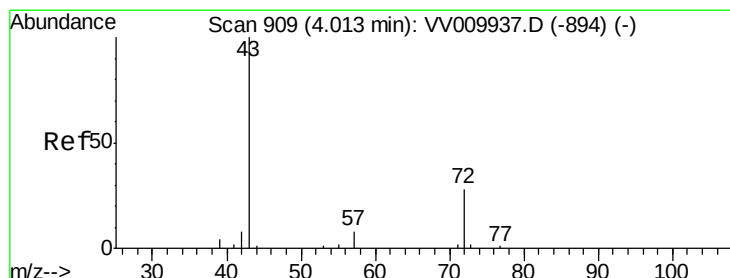
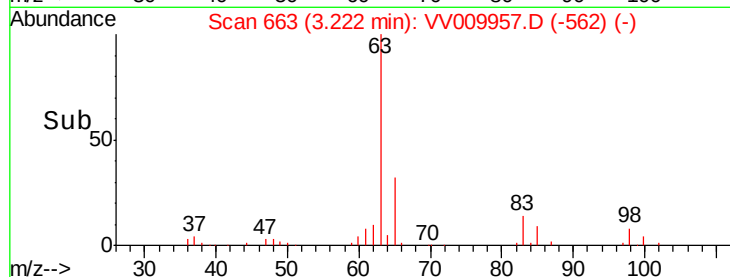
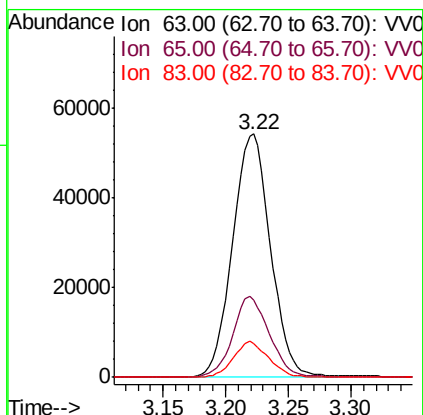
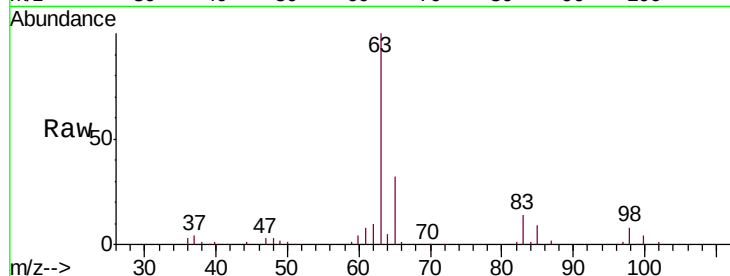




#19
 1,1-Dichloroethane
 Concen: 26.092 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. -0.01 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

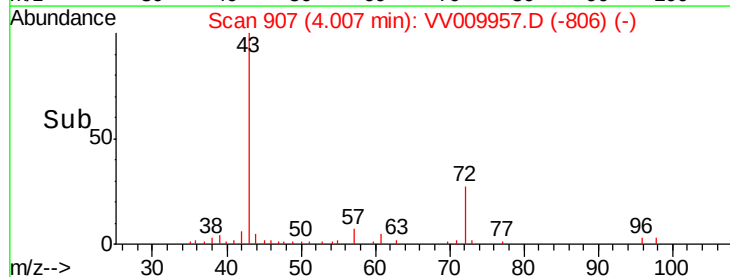
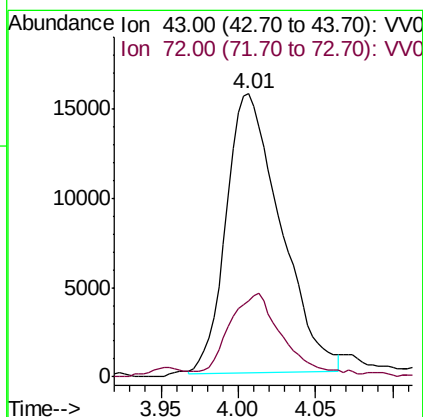
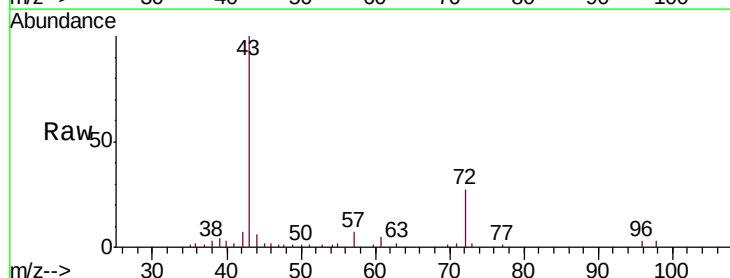
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

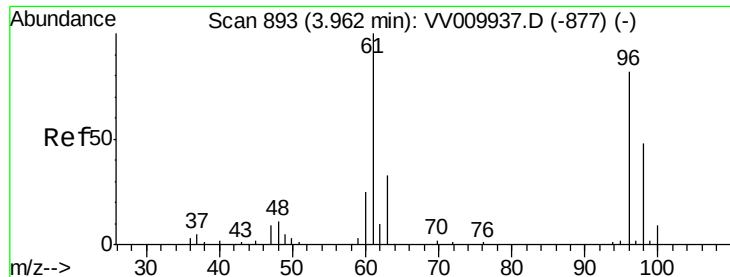
Tgt Ion: 63 Resp: 114210
 Ion Ratio Lower Upper
 63 100
 65 31.7 23.2 43.0
 83 14.0 11.3 21.1



#21
 2-Butanone
 Concen: 41.094 ug/L
 RT: 4.01 min Scan# 907
 Delta R.T. -0.01 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Tgt Ion: 43 Resp: 38277
 Ion Ratio Lower Upper
 43 100
 72 29.0 11.1 33.1



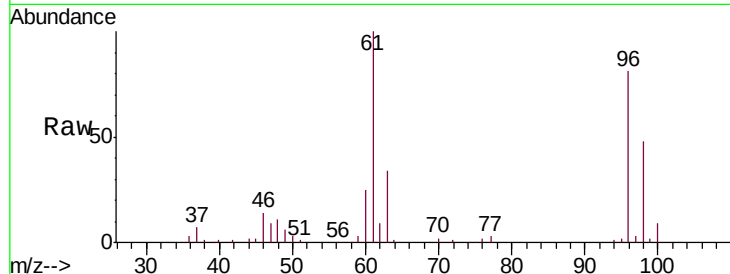


#22

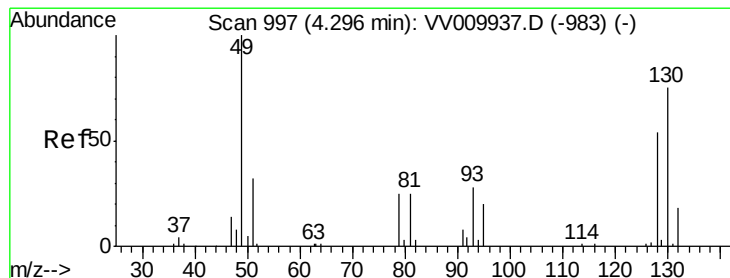
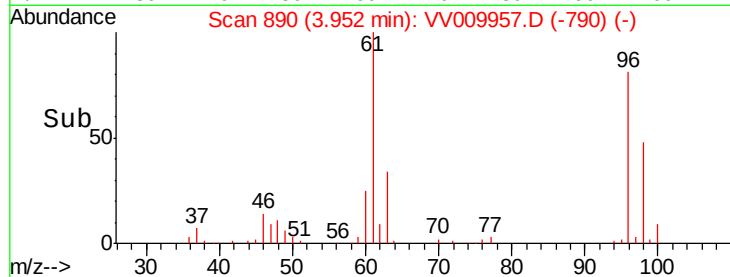
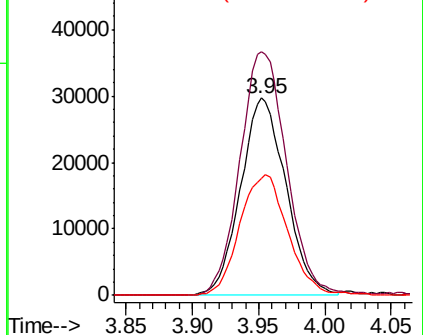
cis-1,2-Dichloroethene
 Concen: 26.812 ug/L
 RT: 3.95 min Scan# 890
 Delta R.T. -0.01 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion: 96 Resp: 70861
 Ion Ratio Lower Upper
 96 100
 61 123.6 91.4 169.8
 98 59.6 48.0 89.2



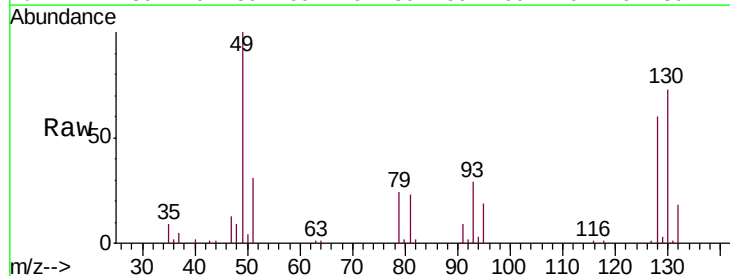
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



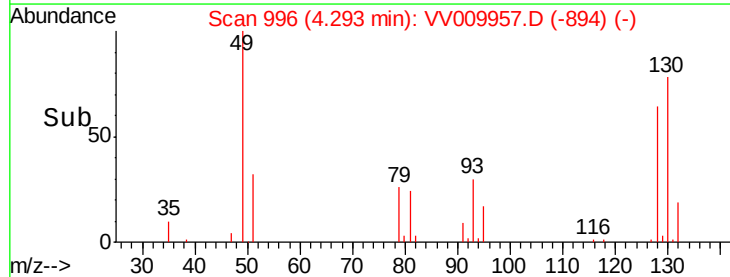
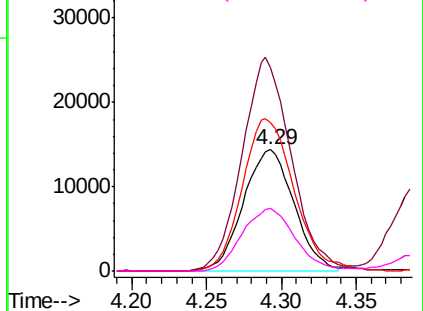
#23

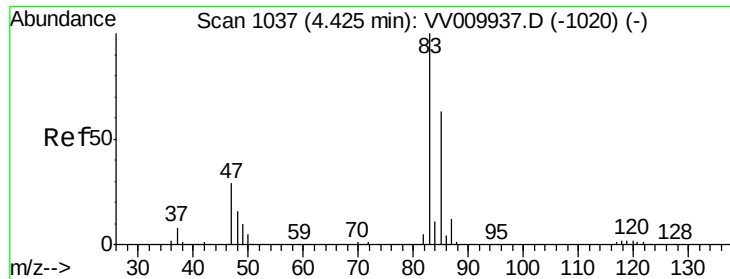
Bromochloromethane
 Concen: 27.807 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Tgt Ion: 128 Resp: 33934
 Ion Ratio Lower Upper
 128 100
 49 167.0 118.2 219.6
 130 122.1 83.4 154.8
 51 51.2 39.4 59.2



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

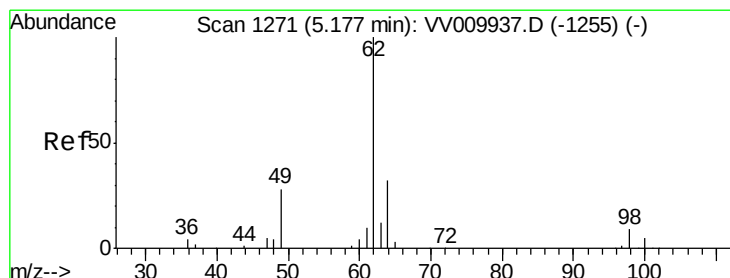
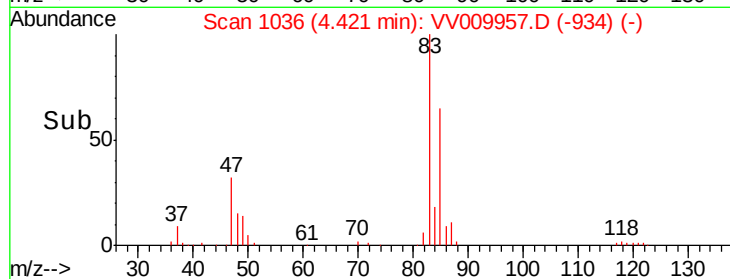
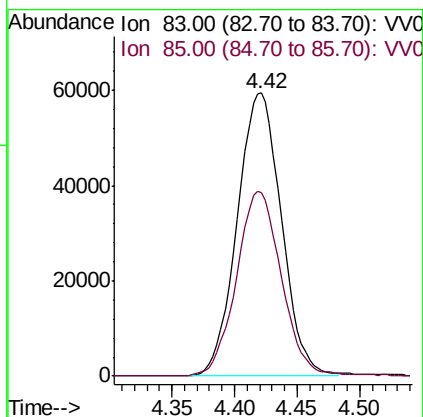
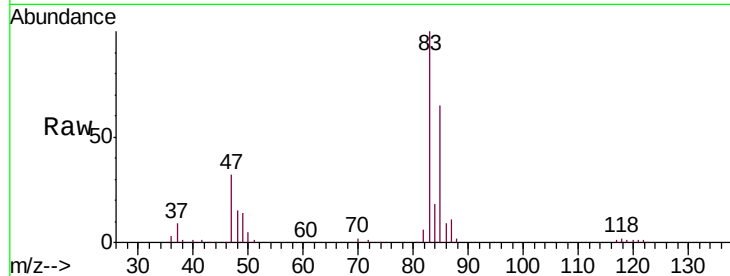




#25
Chloroform
Concen: 30.112 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

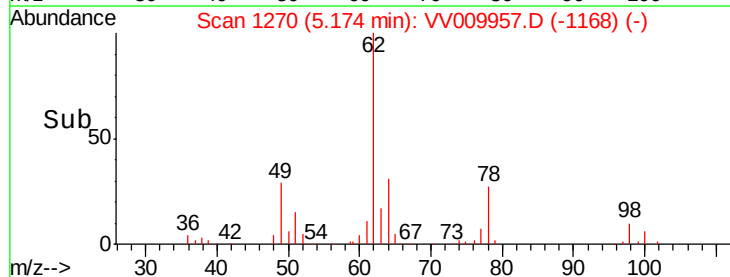
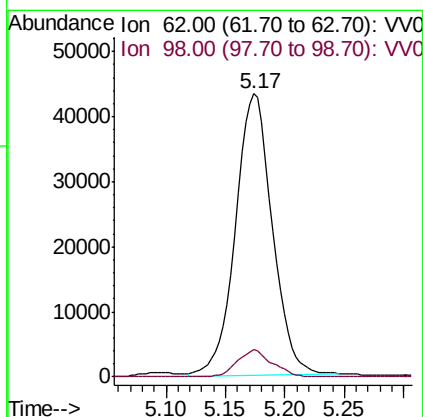
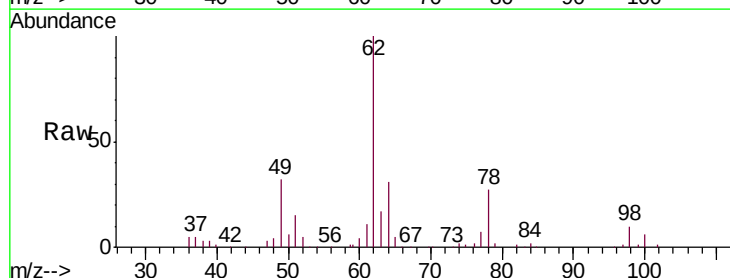
Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

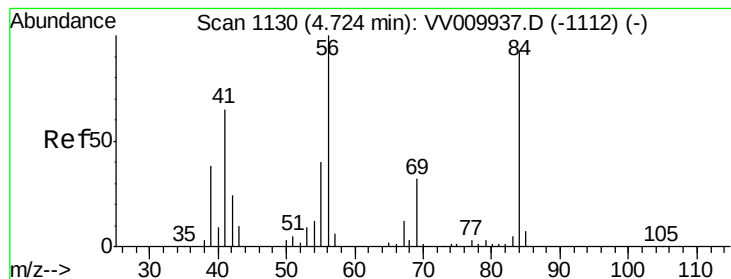
Tgt Ion: 83 Resp: 145738
Ion Ratio Lower Upper
83 100
85 66.4 46.1 85.7



#27
1,2-Dichloroethane
Concen: 27.046 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

Tgt Ion: 62 Resp: 92744
Ion Ratio Lower Upper
62 100
98 9.5 7.2 10.8





#30

Cyclohexane

Concen: 21.045 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

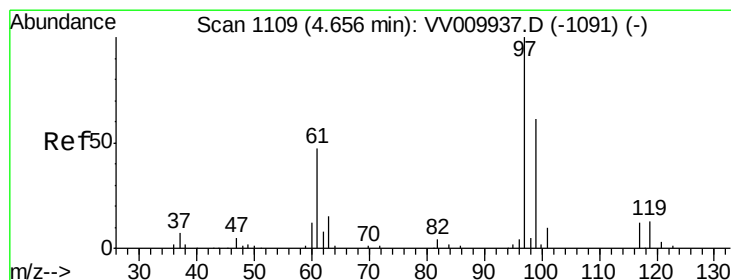
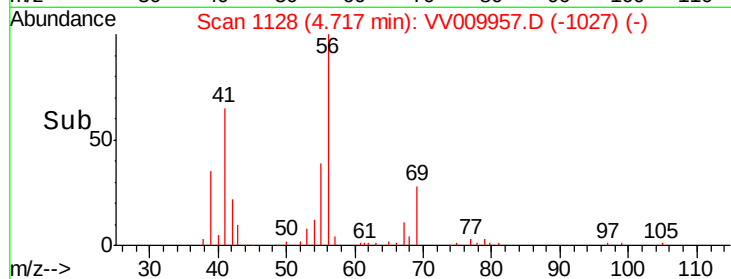
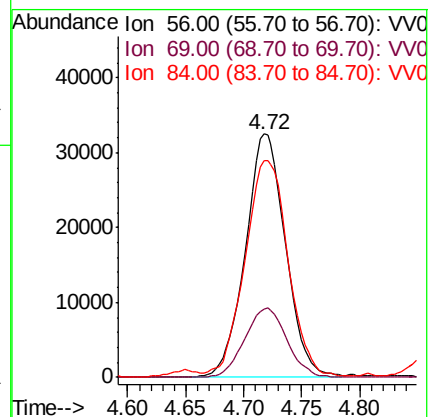
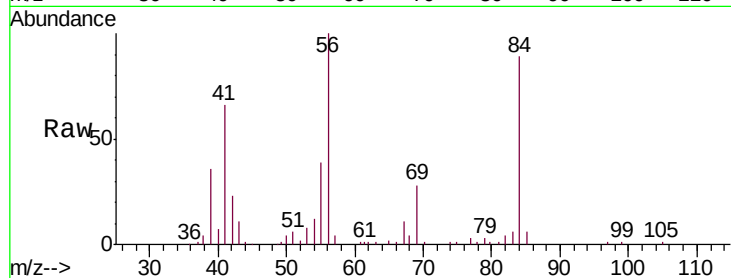
Tgt Ion: 56 Resp: 78445

Ion Ratio Lower Upper

56 100

69 29.7 24.5 36.7

84 95.3 75.6 113.4



#31

1,1,1-Trichloroethane

Concen: 25.426 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

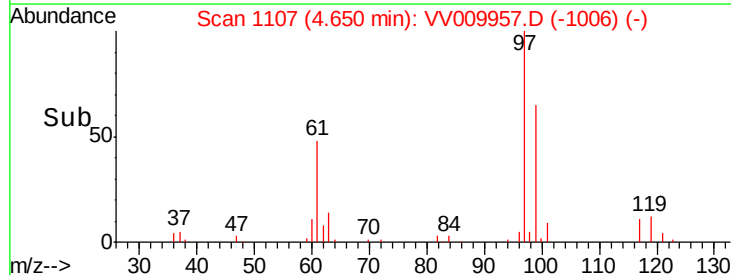
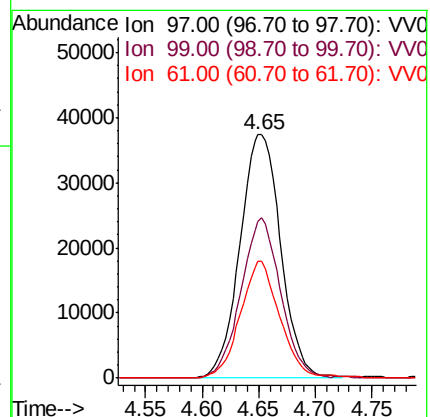
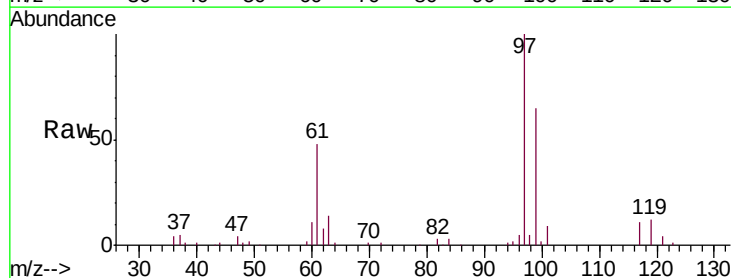
Tgt Ion: 97 Resp: 94068

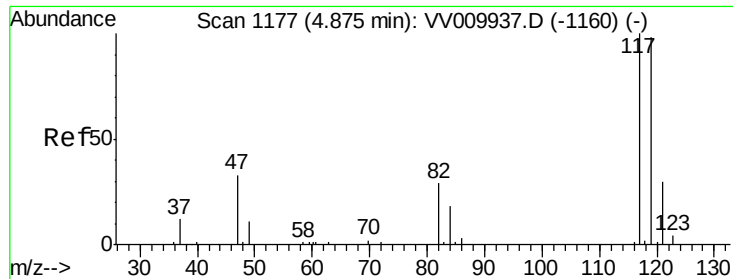
Ion Ratio Lower Upper

97 100

99 63.7 51.5 77.3

61 46.0 39.4 59.0





#32

Carbon tetrachloride

Concen: 23.930 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

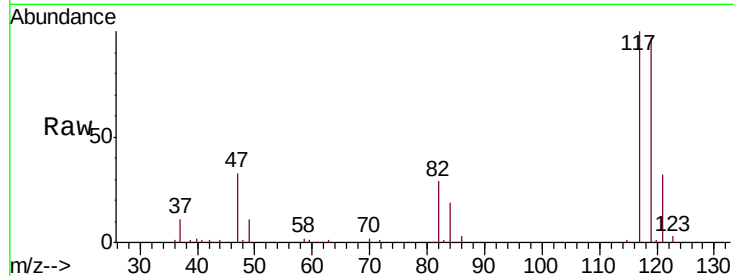
VSTD02568

Tgt Ion:117 Resp: 76951

Ion Ratio Lower Upper

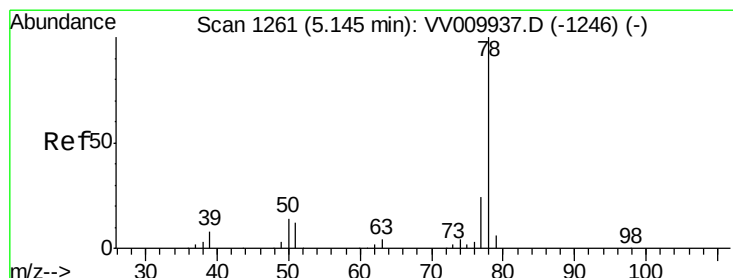
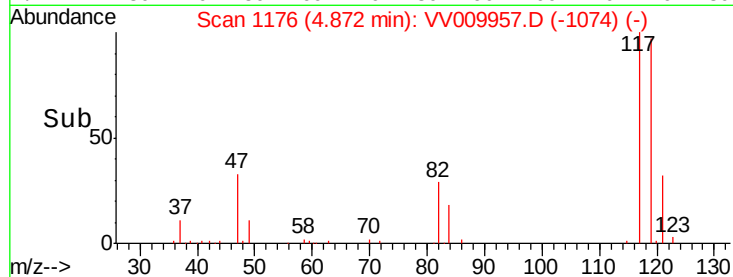
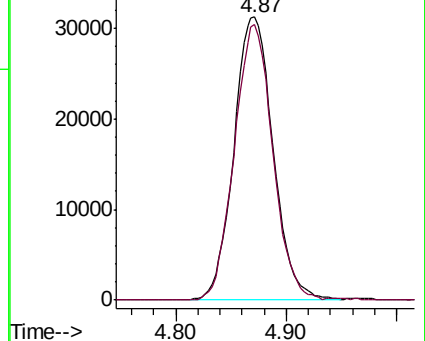
117 100

119 95.1 78.1 117.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.896 ug/L

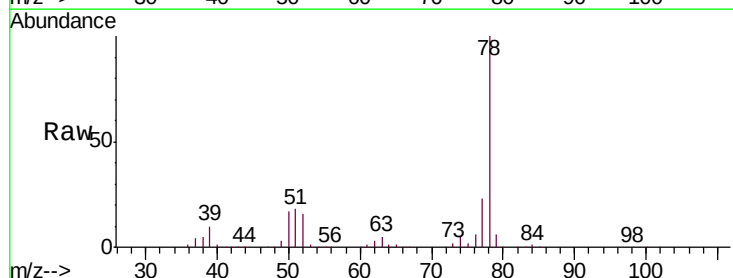
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

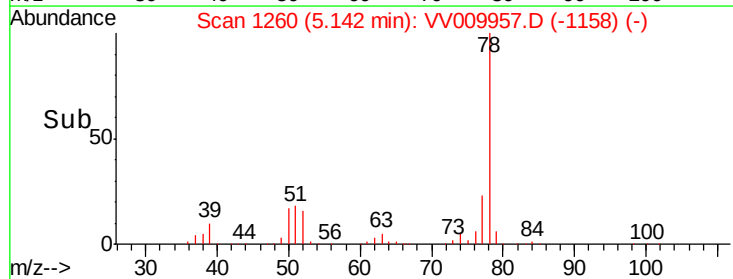
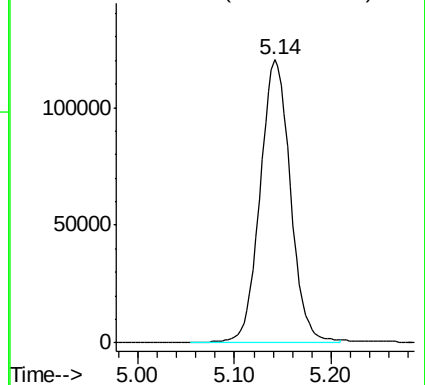
Lab File: VV009957.D

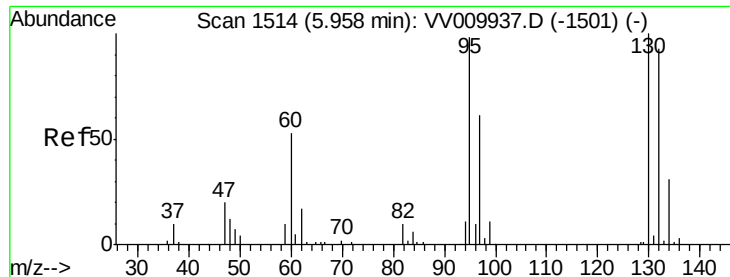
Acq: 28 Mar 2019 05:09

Tgt Ion: 78 Resp: 262881



Abundance Ion 78.00 (77.70 to 78.70): VV0

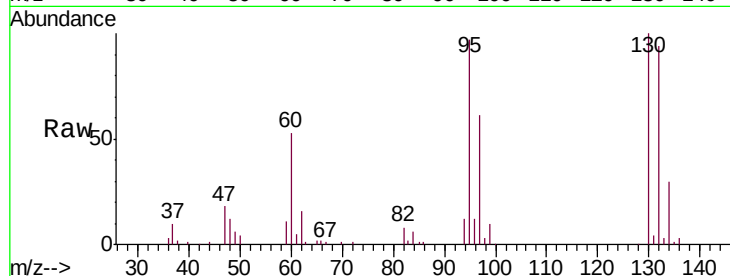




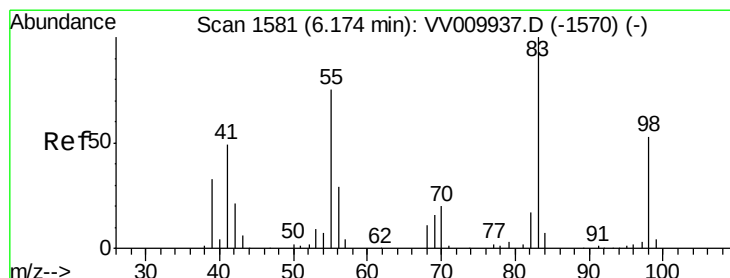
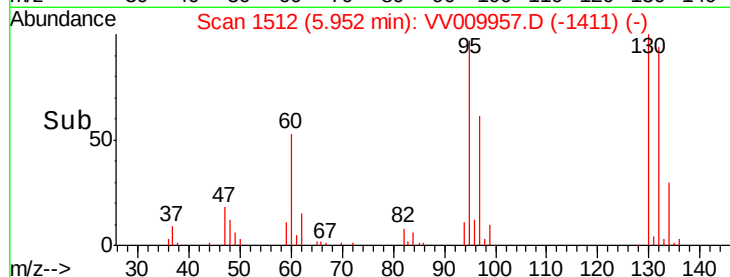
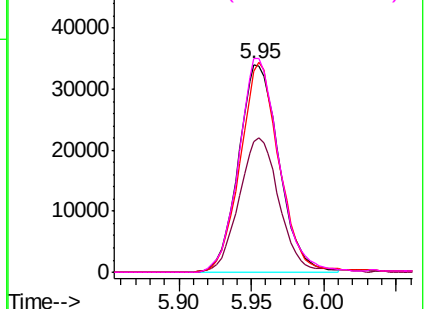
#35
 Trichloroethene
 Concen: 24.621 ug/L
 RT: 5.95 min Scan# 1512
 Delta R.T. -0.01 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion: 95 Resp: 65927
 Ion Ratio Lower Upper
 95 100
 97 64.3 46.3 85.9
 132 97.2 69.3 128.7
 130 102.2 69.5 129.1

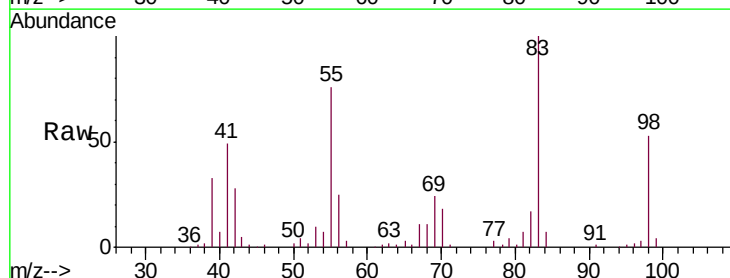


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

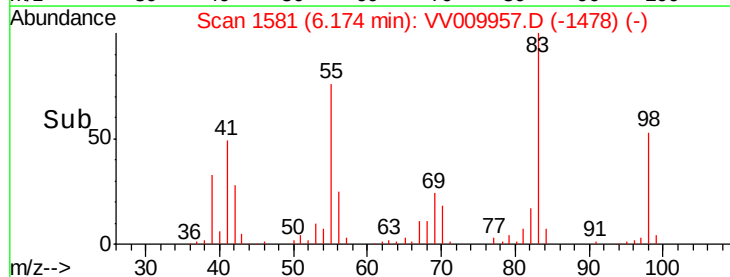
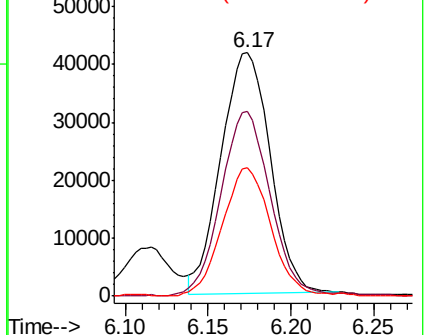


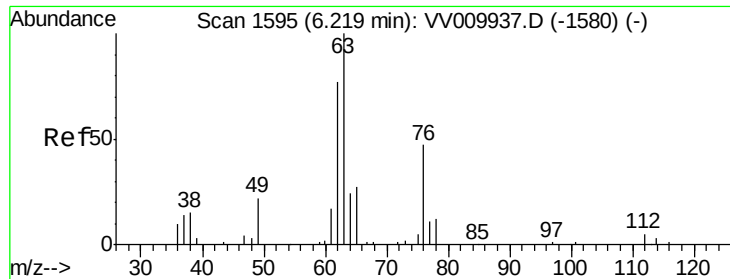
#36
 Methylcyclohexane
 Concen: 20.492 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Tgt Ion: 83 Resp: 86090
 Ion Ratio Lower Upper
 83 100
 55 75.9 57.3 85.9
 98 52.4 39.2 58.8



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

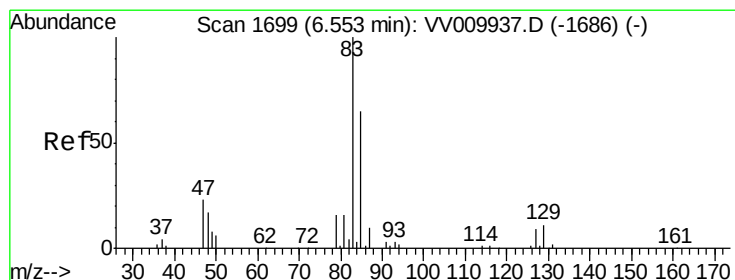
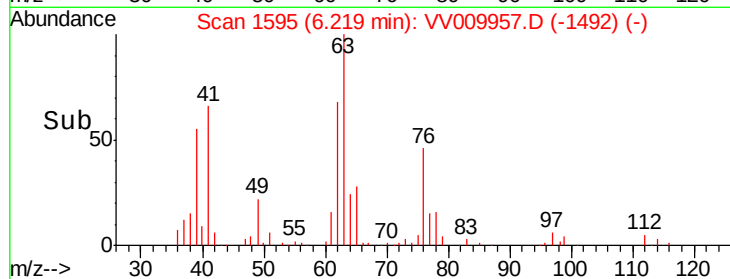
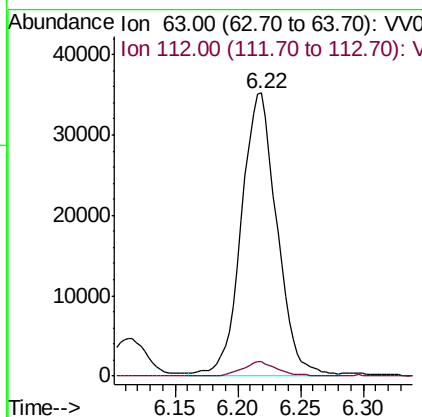
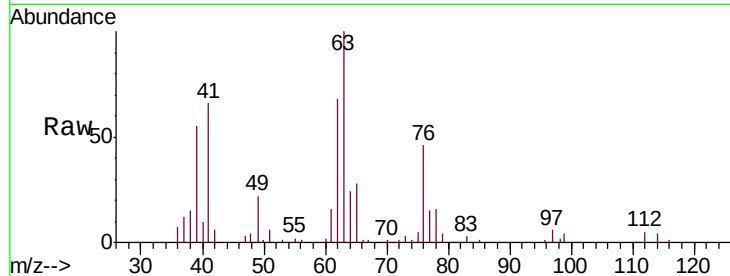




#40
 1,2-Dichloropropane
 Concen: 27.555 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

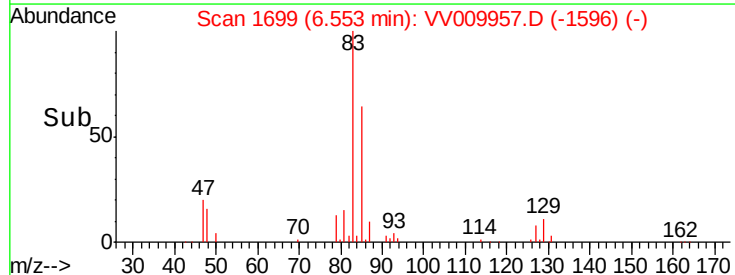
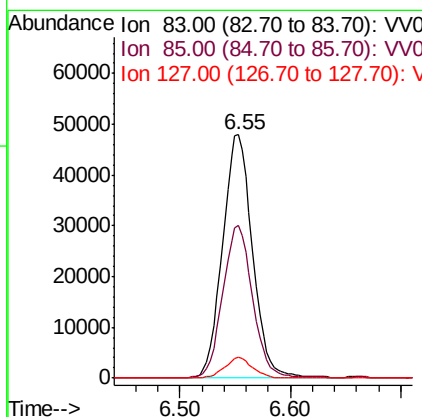
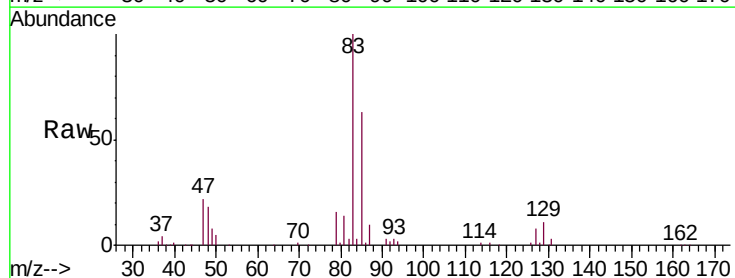
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

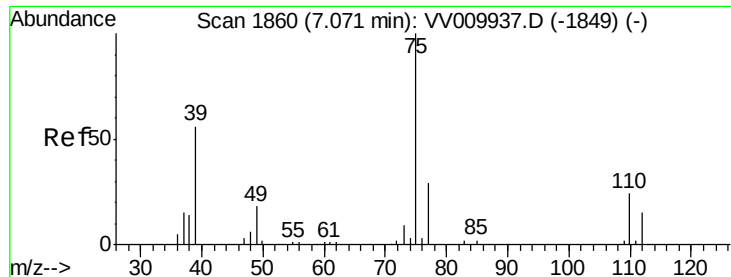
Tgt Ion: 63 Resp: 69898
 Ion Ratio Lower Upper
 63 100
 112 4.9 2.1 3.1#



#41
 Bromodichloromethane
 Concen: 28.629 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Tgt Ion: 83 Resp: 90315
 Ion Ratio Lower Upper
 83 100
 85 62.9 45.6 84.8
 127 8.3 6.2 9.4



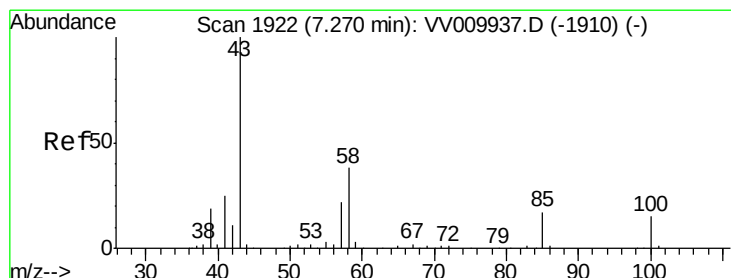
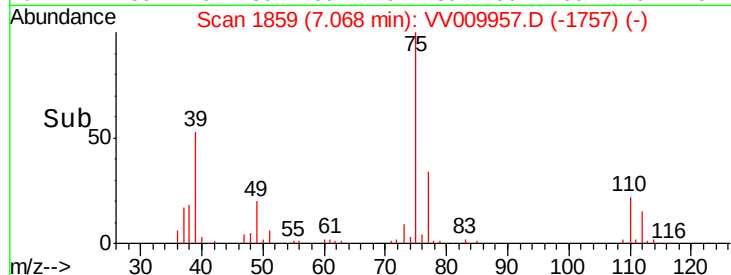
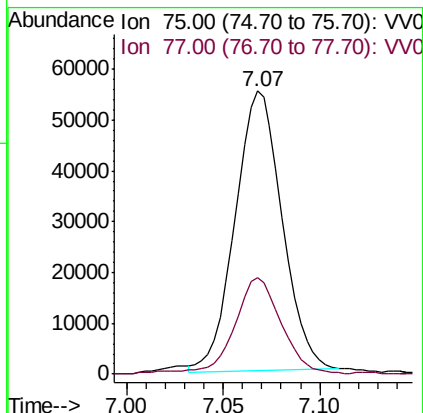
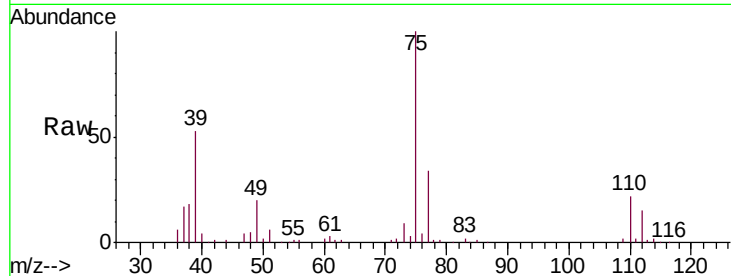


#42

cis-1,3-Dichloropropene
 Concen: 25.190 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

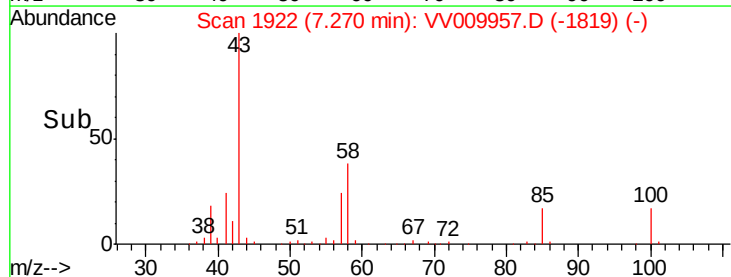
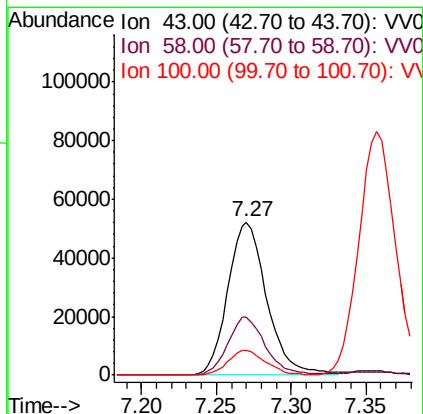
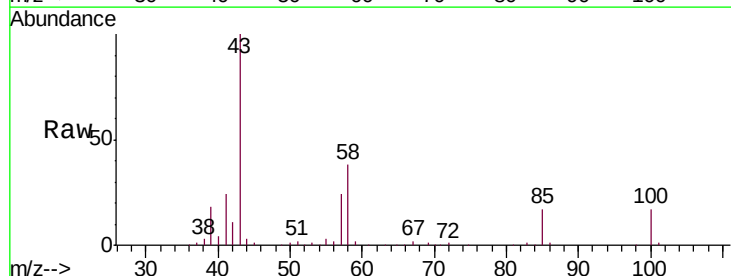
Tgt Ion: 75 Resp: 93162
 Ion Ratio Lower Upper
 75 100
 77 34.2 21.8 40.6

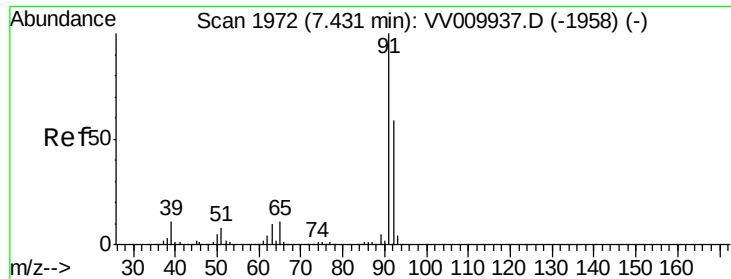


#43

4-Methyl-2-pentanone
 Concen: 52.401 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Tgt Ion: 43 Resp: 94858
 Ion Ratio Lower Upper
 43 100
 58 36.6 29.4 44.2
 100 15.5 12.2 18.4





#44

Toluene

Concen: 25.134 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

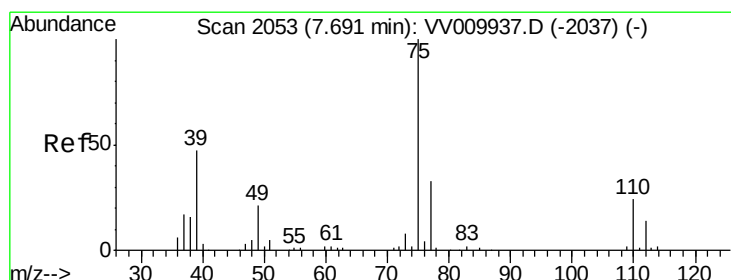
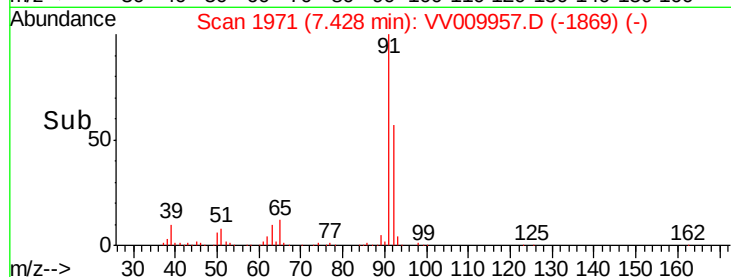
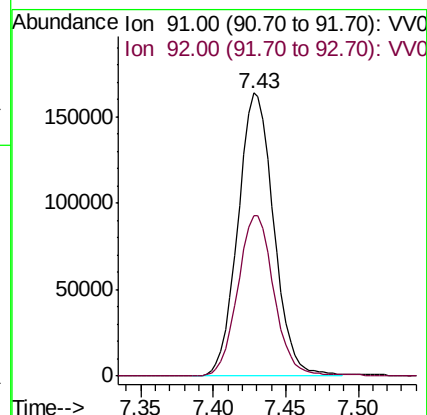
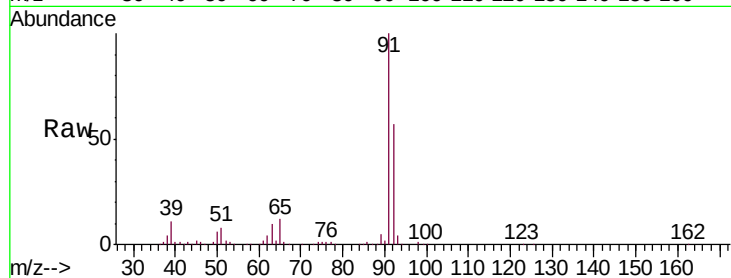
VSTD02568

Tgt Ion: 91 Resp: 281286

Ion Ratio Lower Upper

91 100

92 56.8 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 26.942 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009957.D

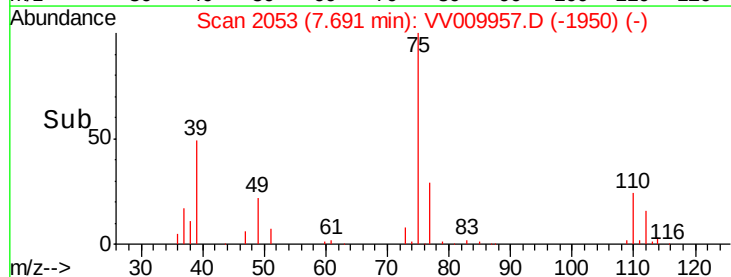
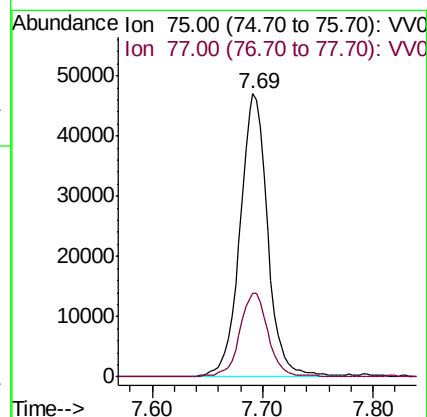
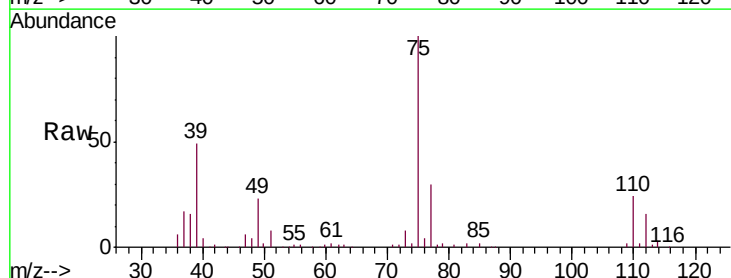
Acq: 28 Mar 2019 05:09

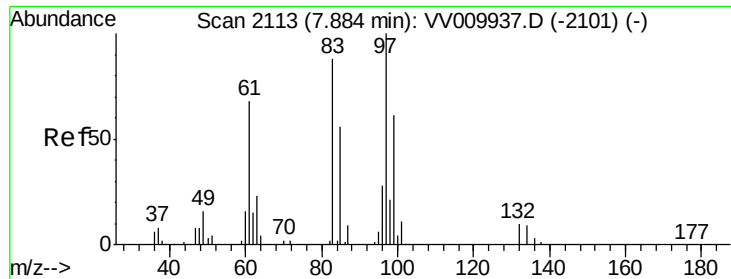
Tgt Ion: 75 Resp: 81566

Ion Ratio Lower Upper

75 100

77 29.7 20.7 38.5

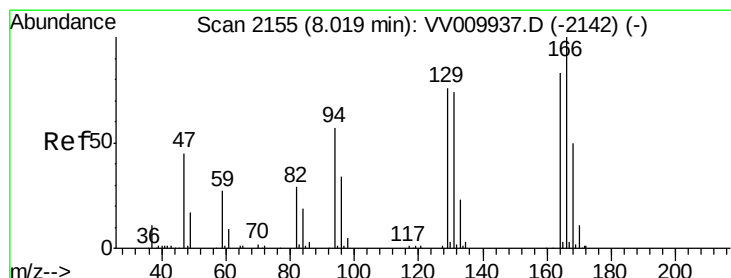
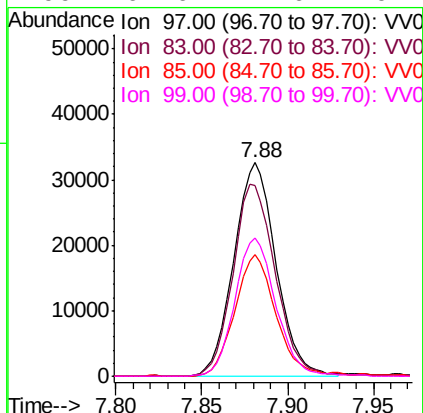
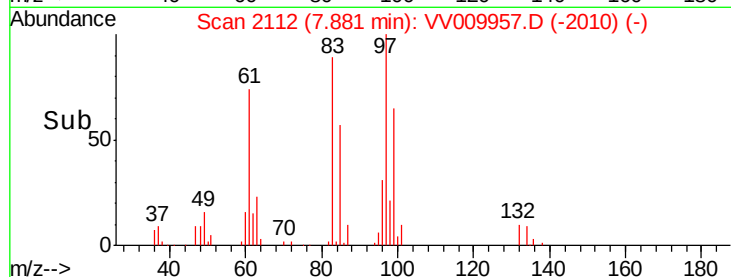
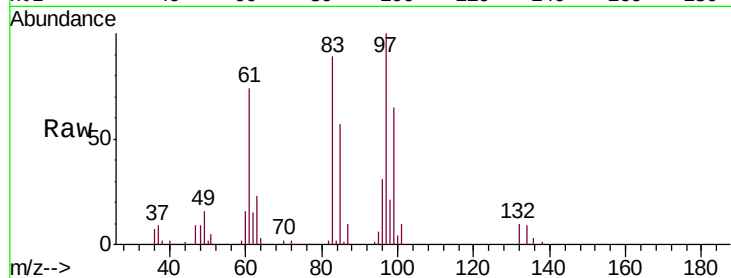




#46
 1,1,2-Trichloroethane
 Concen: 26.496 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

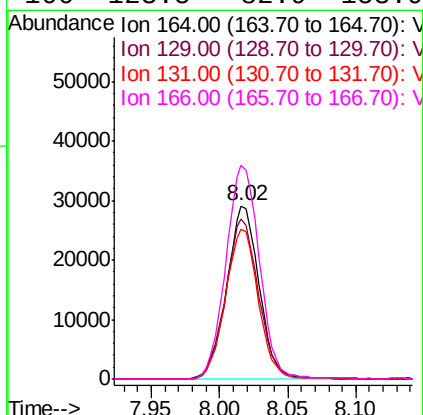
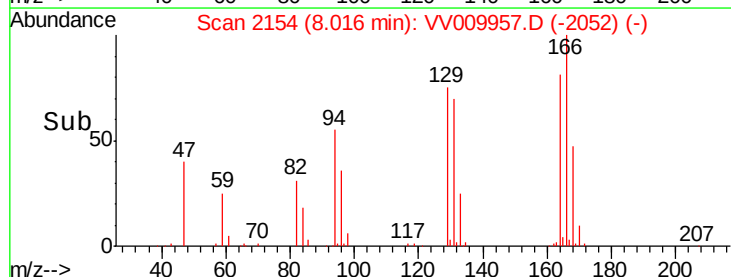
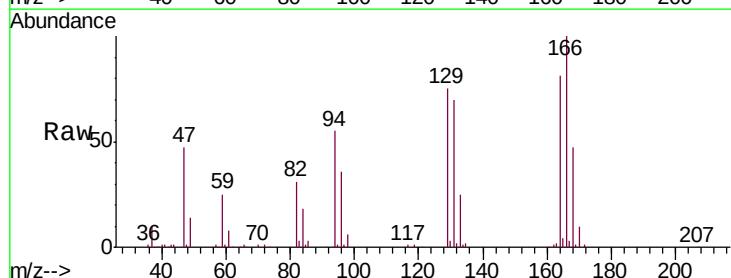
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

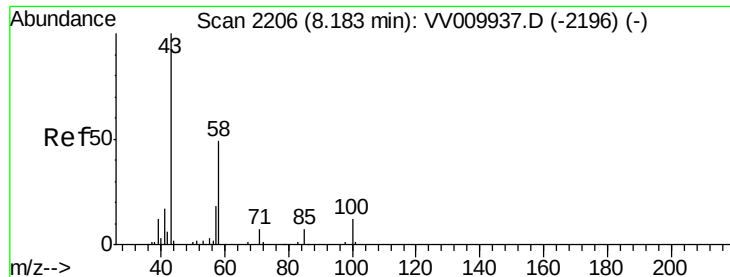
Tgt Ion:	97	Resp:	55589
Ion	Ratio	Lower	Upper
97	100		
83	89.5	59.6	110.8
85	56.8	39.2	72.8
99	64.6	42.6	79.2



#47
 Tetrachloroethene
 Concen: 22.943 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Tgt Ion:	164	Resp:	48478
Ion	Ratio	Lower	Upper
164	100		
129	92.8	64.9	120.5
131	86.9	62.0	115.2
166	123.5	82.9	153.9

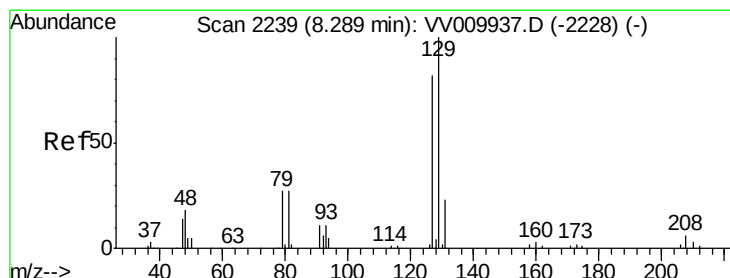
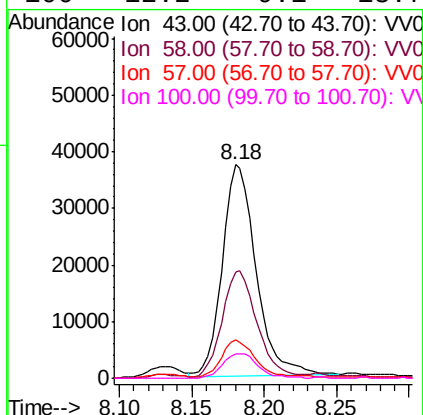
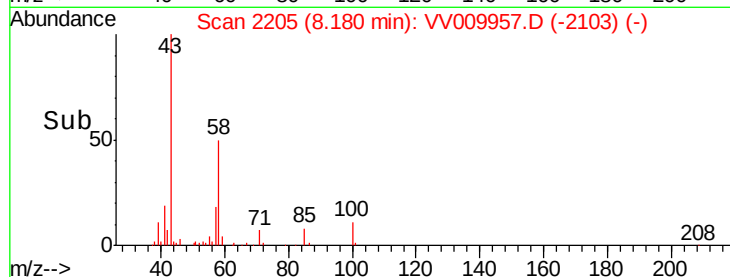
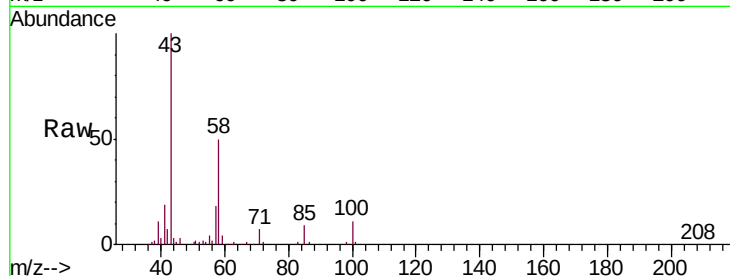




#49
2-Hexanone
Concen: 49.663 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

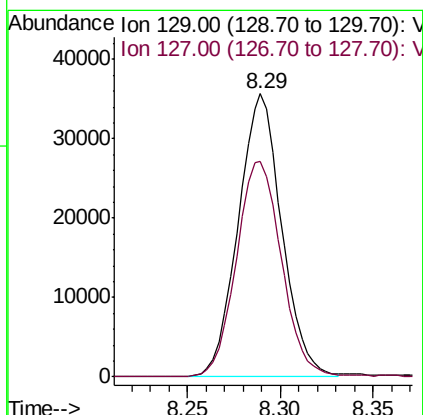
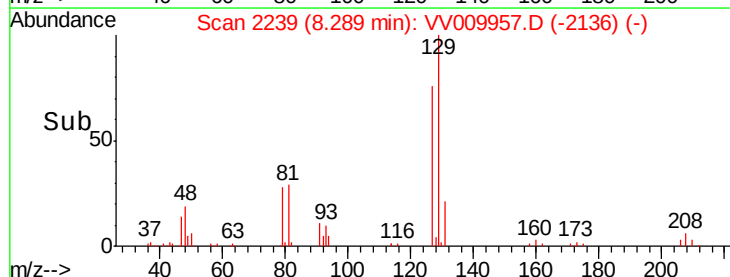
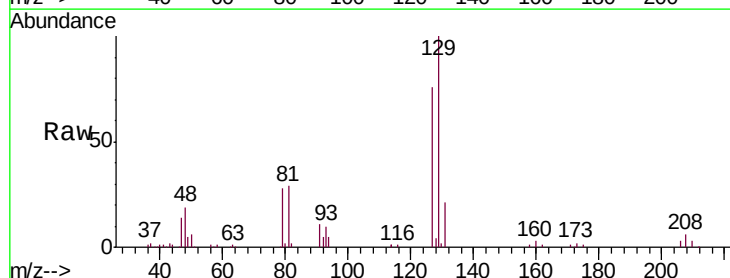
Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

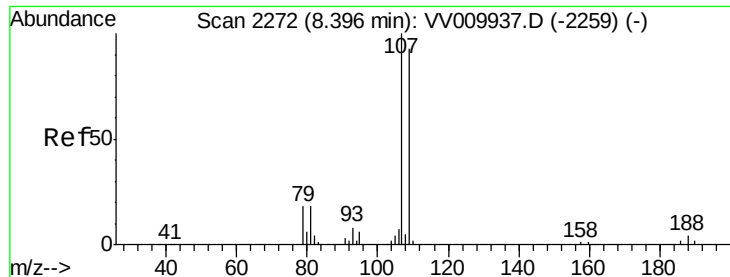
Tgt Ion: 43 Resp: 60760
Ion Ratio Lower Upper
43 100
58 52.9 42.0 63.0
57 17.4 12.9 19.3
100 12.2 9.1 13.7



#50
Dibromochloromethane
Concen: 26.792 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

Tgt Ion: 129 Resp: 58284
Ion Ratio Lower Upper
129 100
127 76.3 57.9 107.5





#51

1,2-Dibromoethane

Concen: 26.181 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

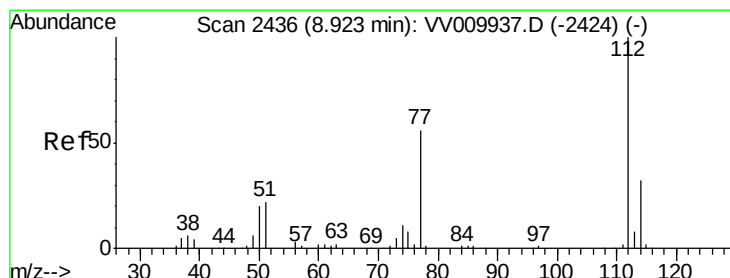
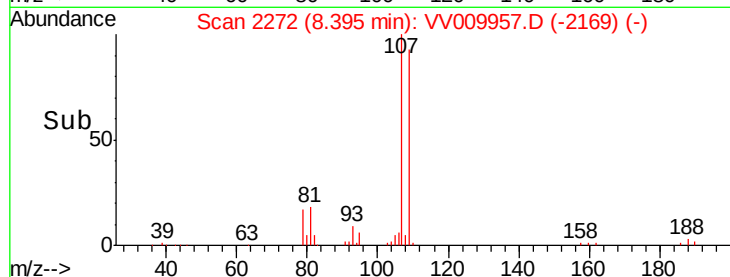
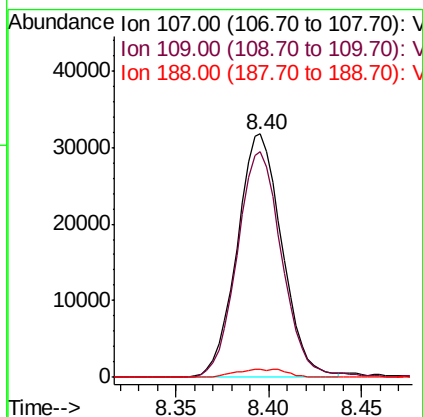
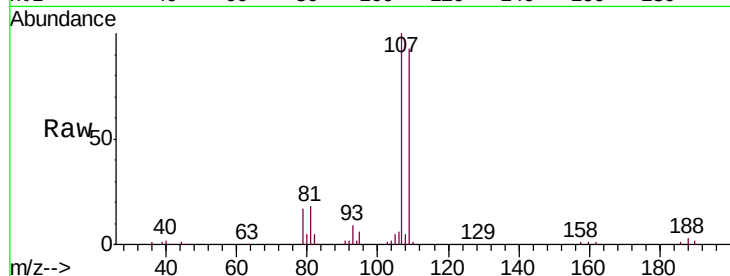
Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

Tgt Ion:	107	Resp:	53333
Ion	Ratio	Lower	Upper
107	100		
109	92.6	61.8	114.8
188	3.1	3.5	5.3#



#52

Chlorobenzene

Concen: 24.446 ug/L

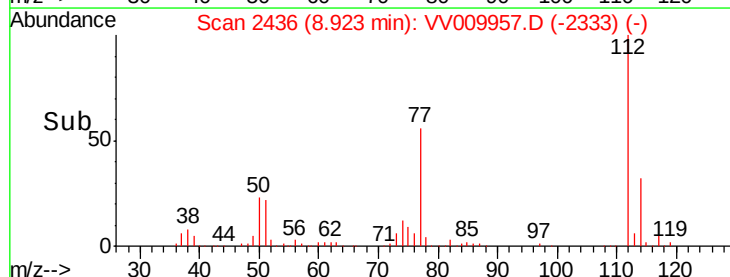
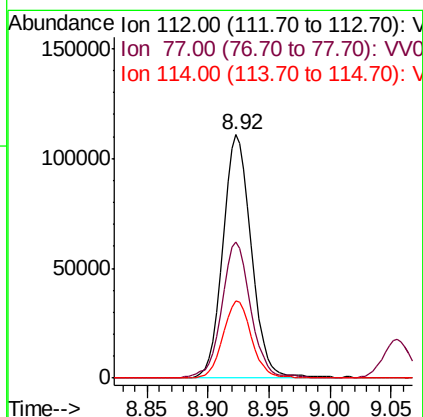
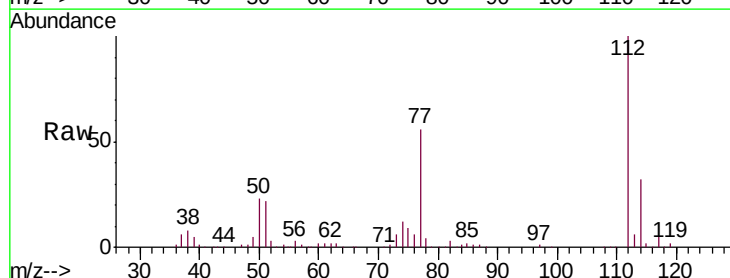
RT: 8.92 min Scan# 2436

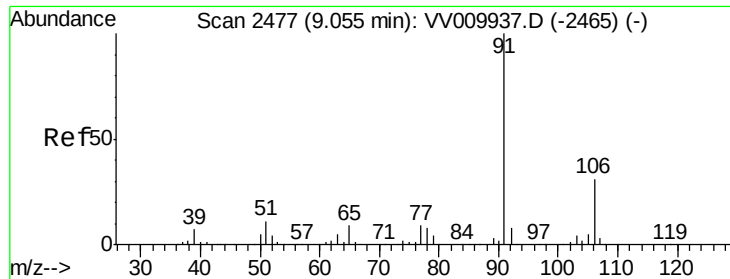
Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Tgt Ion:	112	Resp:	182130
Ion	Ratio	Lower	Upper
112	100		
77	56.1	46.8	70.2
114	31.6	22.3	41.5

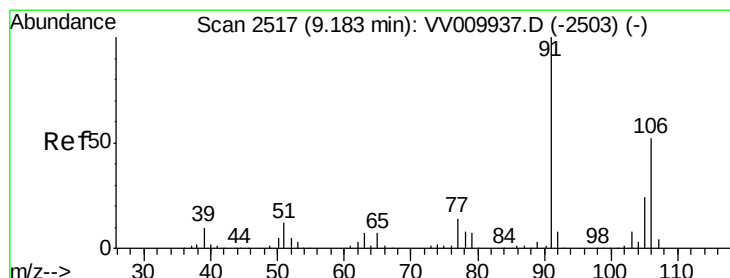
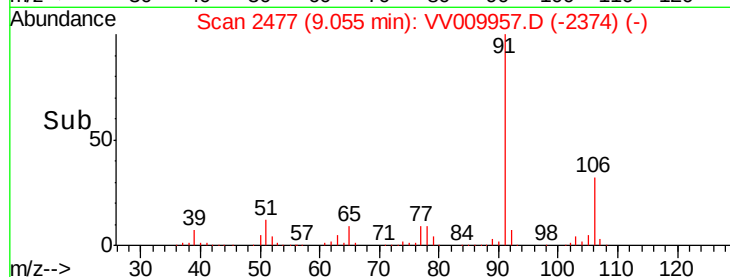
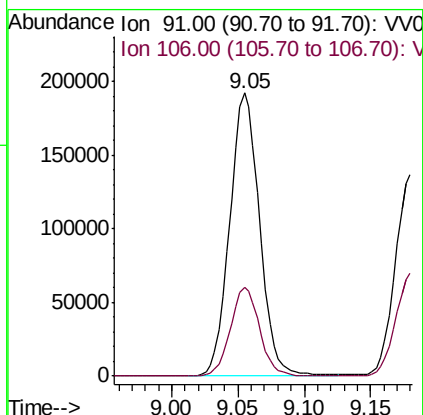
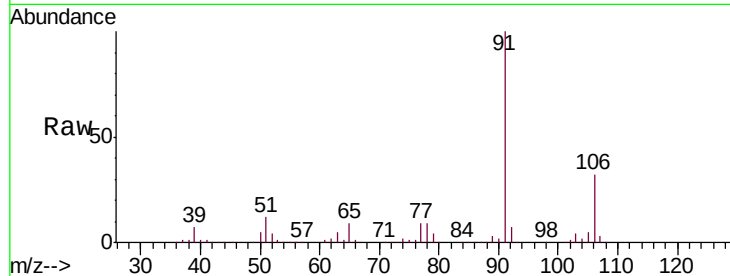




#53
Ethylbenzene
Concen: 24.427 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

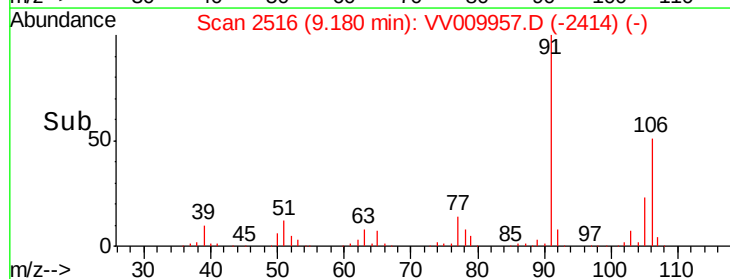
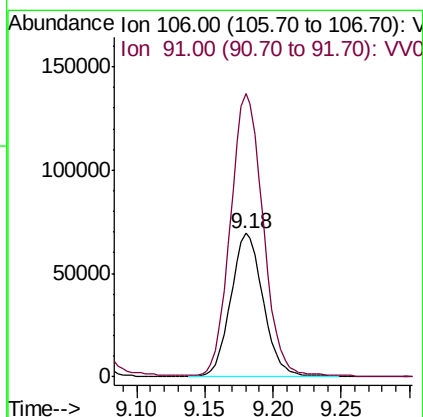
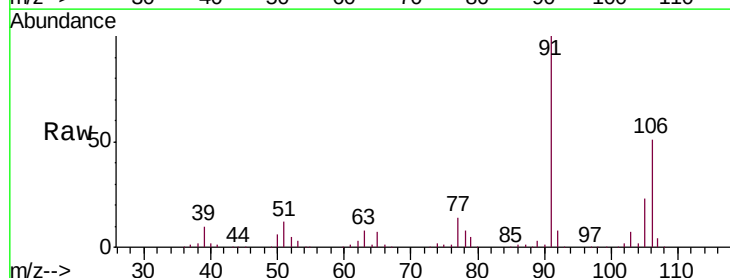
Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

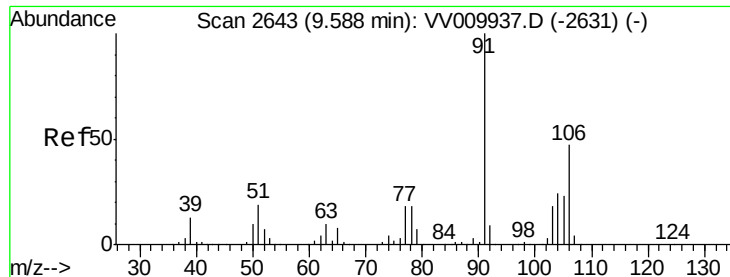
Tgt Ion: 91 Resp: 301556
Ion Ratio Lower Upper
91 100
106 31.5 22.3 41.3



#54
m,p-Xylene
Concen: 23.461 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV009957.D
Acq: 28 Mar 2019 05:09

Tgt Ion: 106 Resp: 113753
Ion Ratio Lower Upper
106 100
91 196.9 130.0 241.4





#55

o-xylene

Concen: 24.134 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

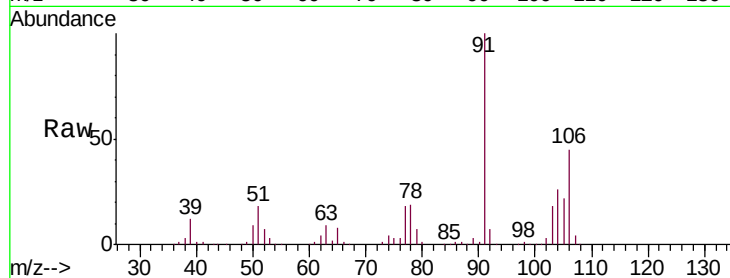
VSTD02568

Tgt Ion:106 Resp: 113585

Ion Ratio Lower Upper

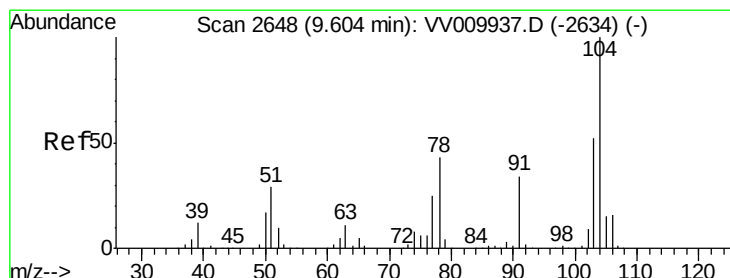
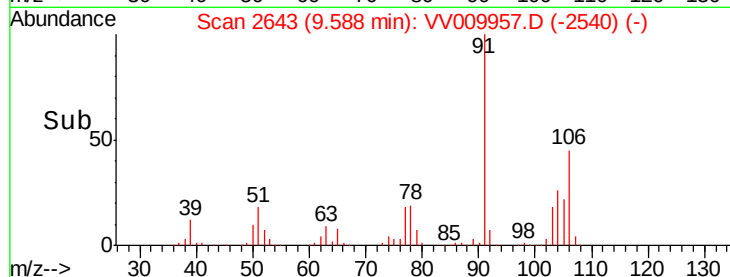
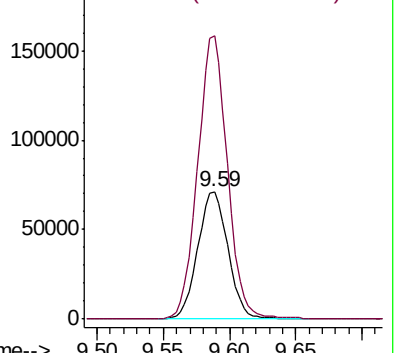
106 100

91 222.4 144.3 268.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 24.430 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009957.D

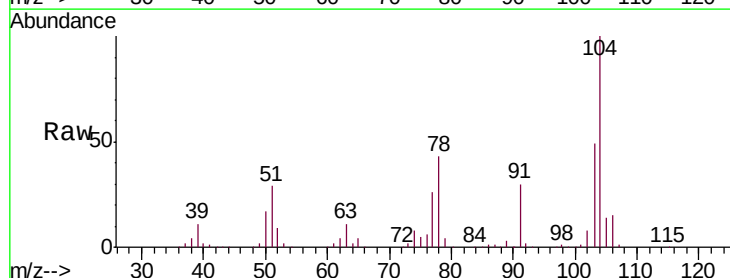
Acq: 28 Mar 2019 05:09

Tgt Ion:104 Resp: 197486

Ion Ratio Lower Upper

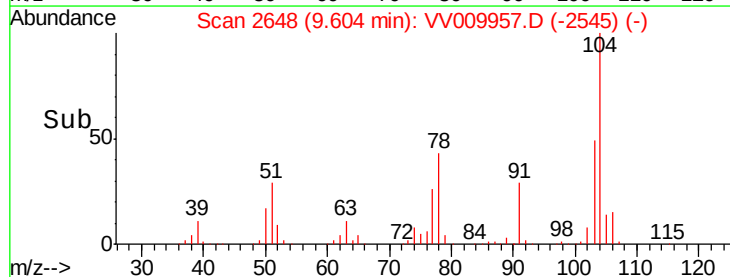
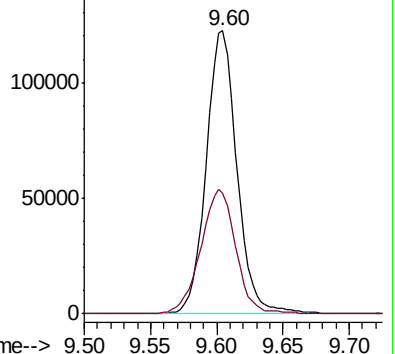
104 100

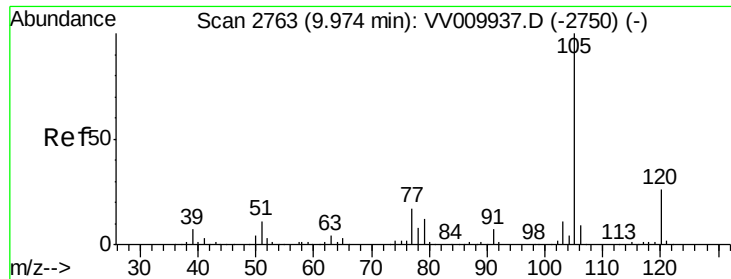
78 42.8 29.3 54.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.304 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

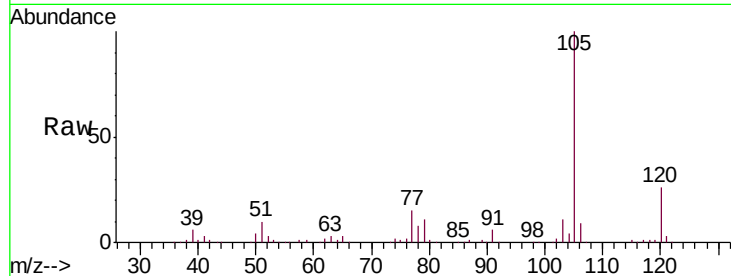
Tgt Ion: 105 Resp: 284531

Ion Ratio Lower Upper

105 100

120 25.9 20.8 31.2

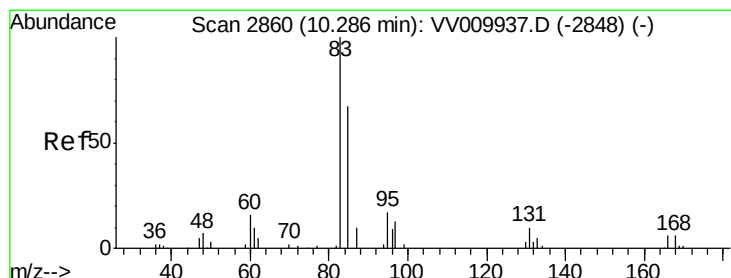
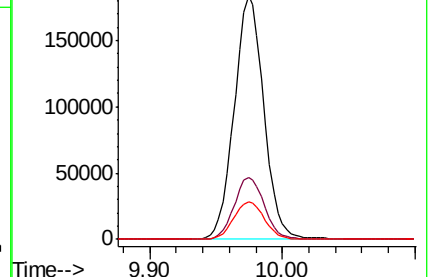
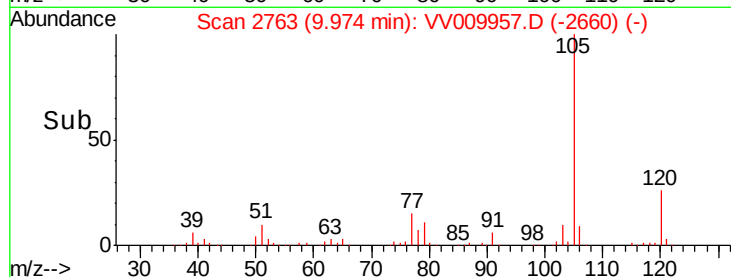
77 16.1 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 25.142 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

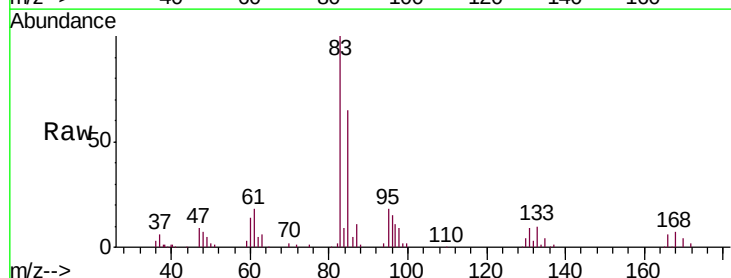
Tgt Ion: 83 Resp: 71100

Ion Ratio Lower Upper

83 100

85 64.9 45.8 85.0

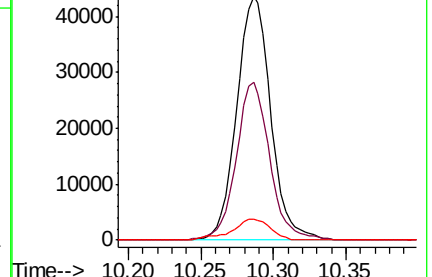
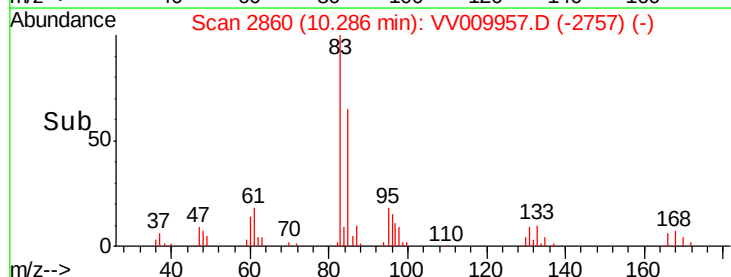
131 8.6 6.2 9.4

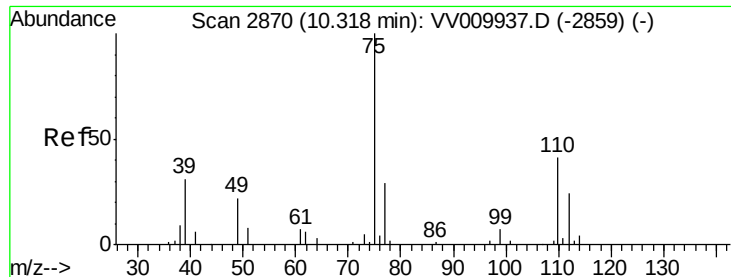


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.837 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

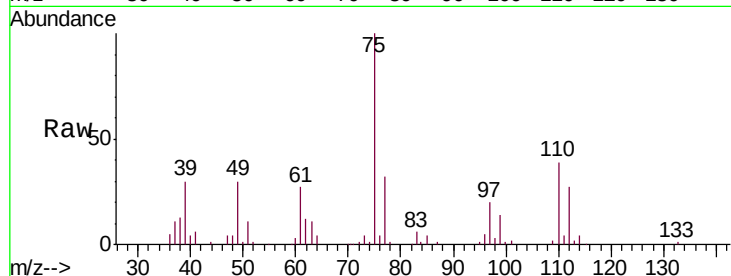
VSTD02568

Tgt Ion: 75 Resp: 50691

Ion Ratio Lower Upper

75 100

77 32.0 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VV009937.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009937.D (-2859) (-)

10.32

30000

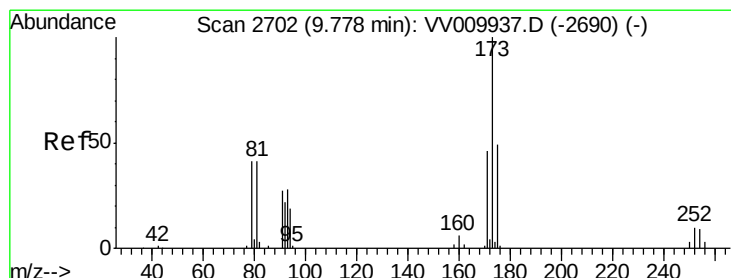
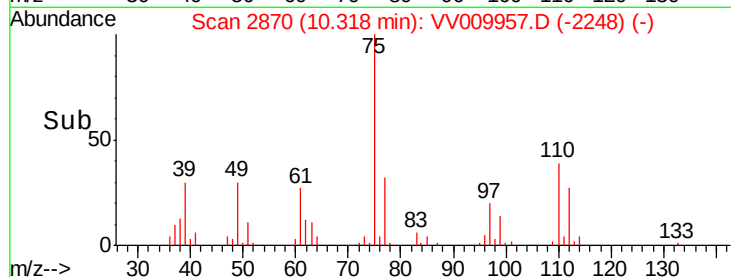
20000

10000

0

Time-->

10.25 10.30 10.35 10.40



#62

Bromoform

Concen: 26.846 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

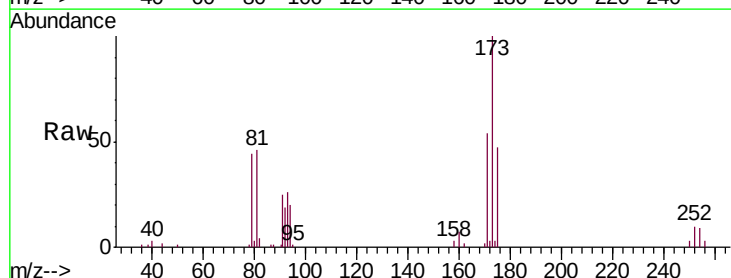
Tgt Ion: 173 Resp: 28138

Ion Ratio Lower Upper

173 100

175 49.7 37.8 56.8

254 9.8 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VV009937.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV009937.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV009937.D (-2690) (-)

9.77

20000

15000

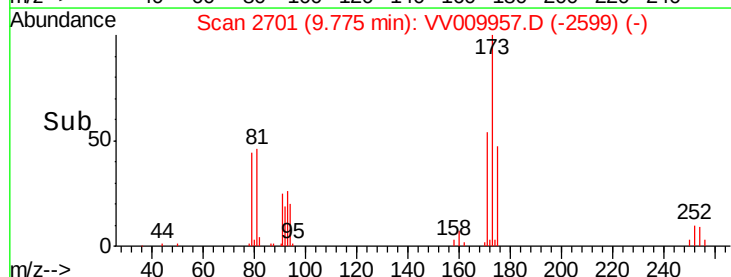
10000

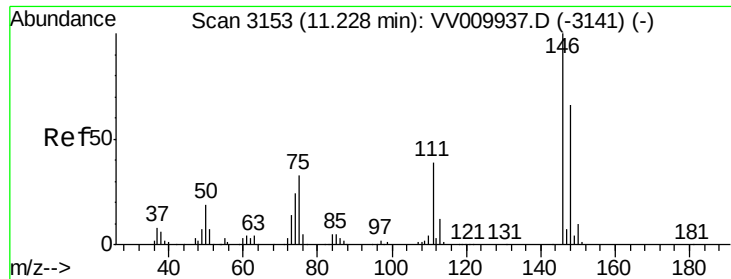
5000

0

Time-->

9.70 9.75 9.80 9.85





#63

1,3-Dichlorobenzene

Concen: 25.110 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

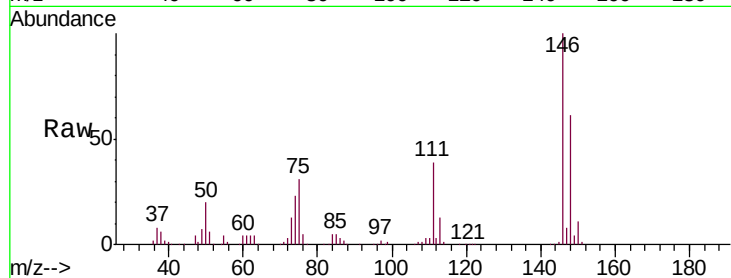
Tgt Ion:146 Resp: 126556

Ion Ratio Lower Upper

146 100

111 38.7 28.5 52.9

148 61.5 45.0 83.6

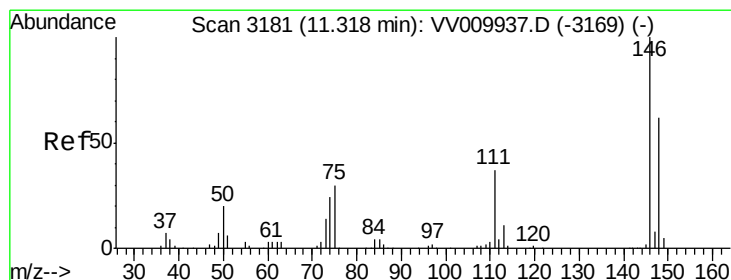
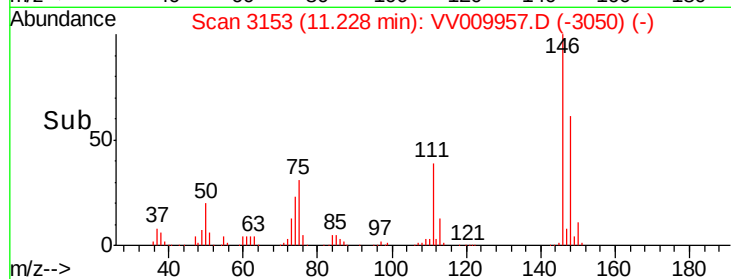
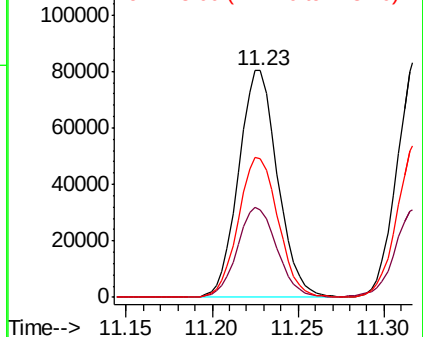


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 24.276 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

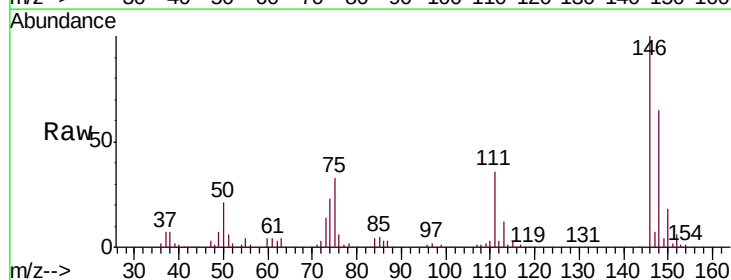
Tgt Ion:146 Resp: 132970

Ion Ratio Lower Upper

146 100

111 36.2 25.4 47.2

148 64.8 44.1 81.9

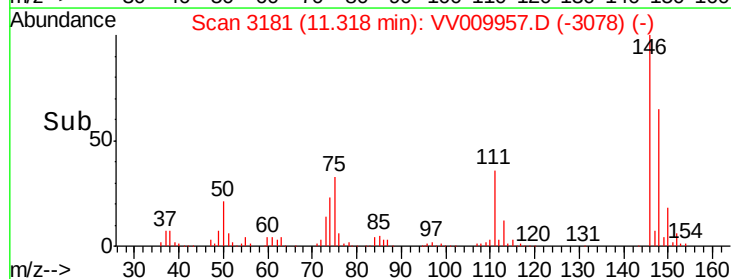
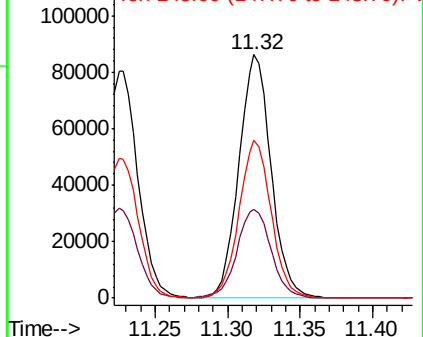


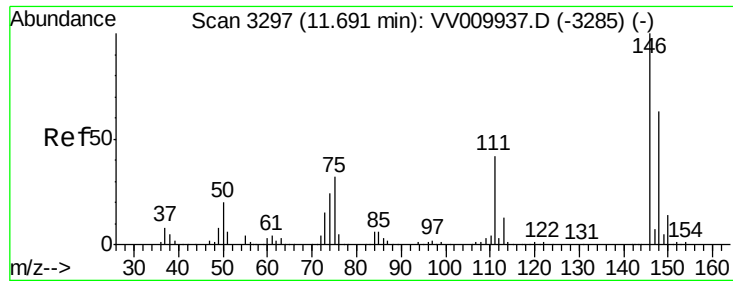
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

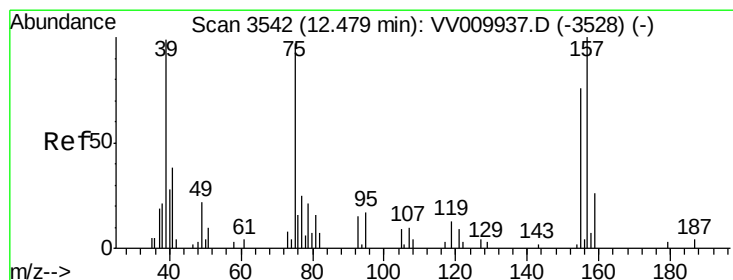
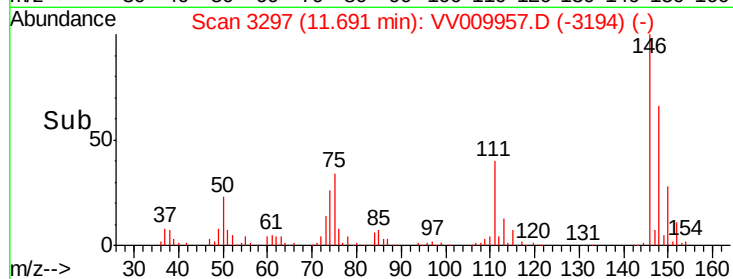
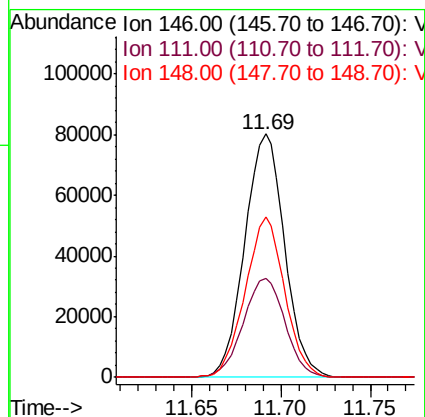
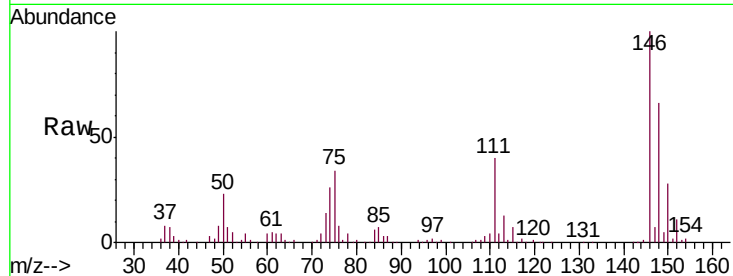




#65
 1,2-Dichlorobenzene
 Concen: 25.220 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

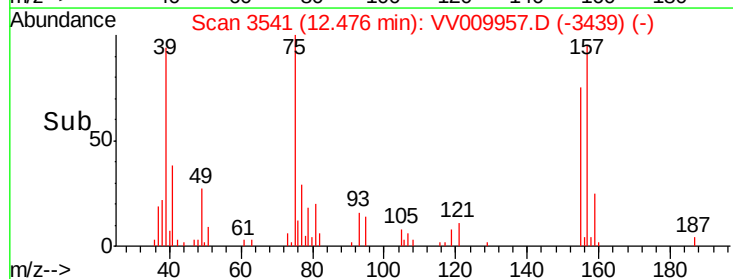
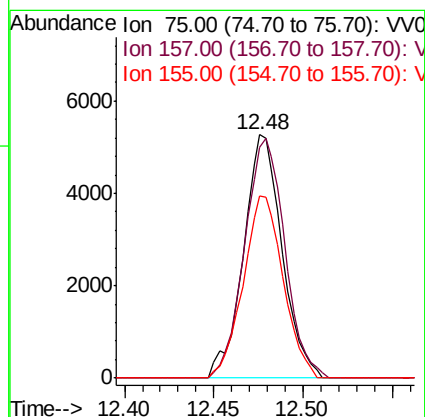
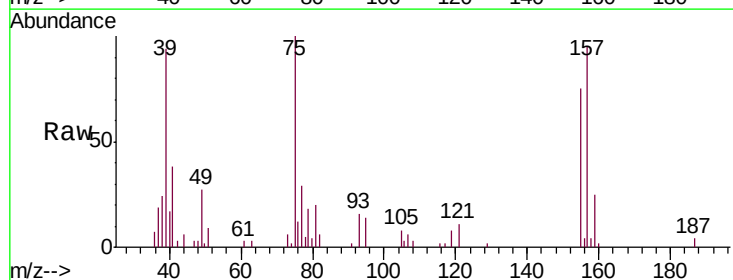
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

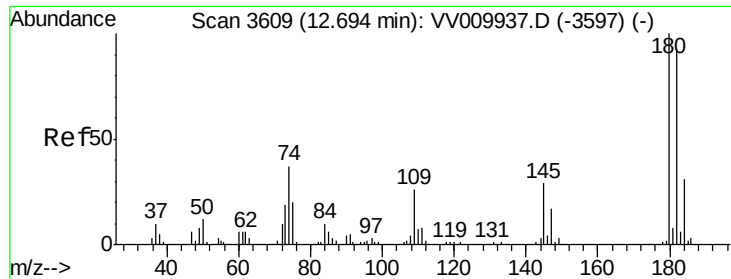
Tgt Ion: 146 Resp: 125446
 Ion Ratio Lower Upper
 146 100
 111 40.5 32.7 49.1
 148 65.8 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 25.466 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Tgt Ion: 75 Resp: 7917
 Ion Ratio Lower Upper
 75 100
 157 94.6 89.2 133.8
 155 74.8 68.6 102.8

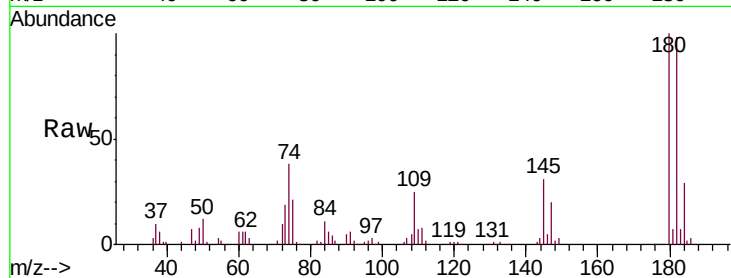




#67
 1,3,5-Trichlorobenzene
 Concen: 23.729 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	78.4	117.6
184	30.1	24.3	36.5
145	31.0	24.9	37.3



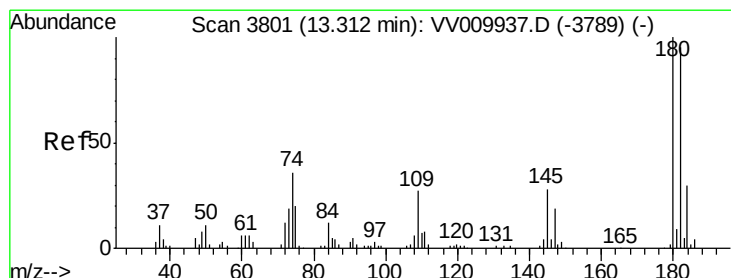
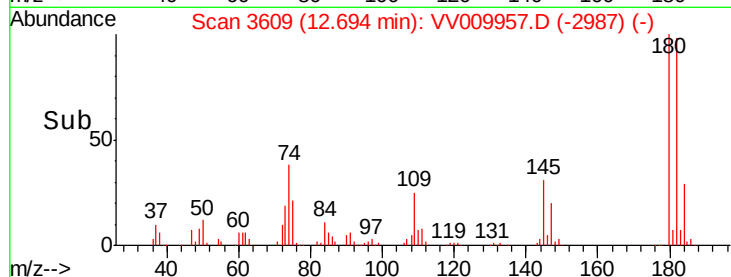
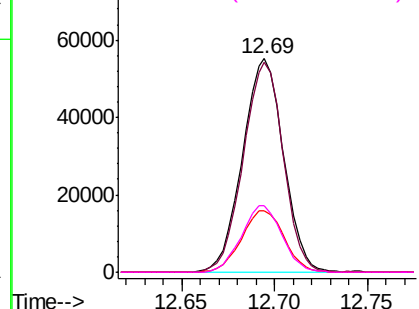
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

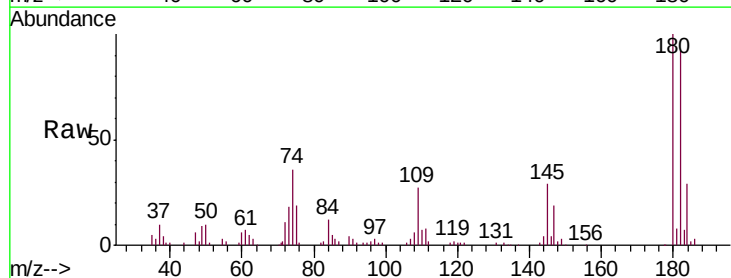
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 24.788 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009957.D
 Acq: 28 Mar 2019 05:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.4	75.5	113.3
145	29.9	23.2	34.8

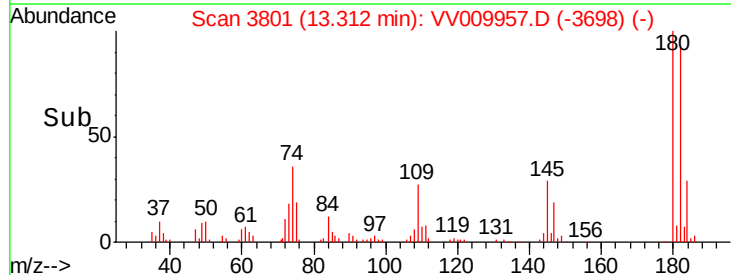
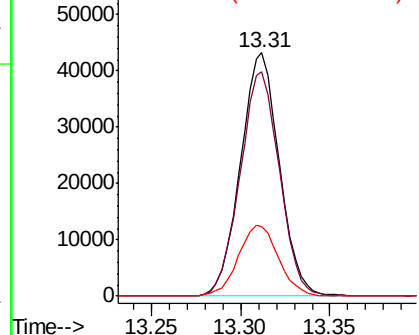


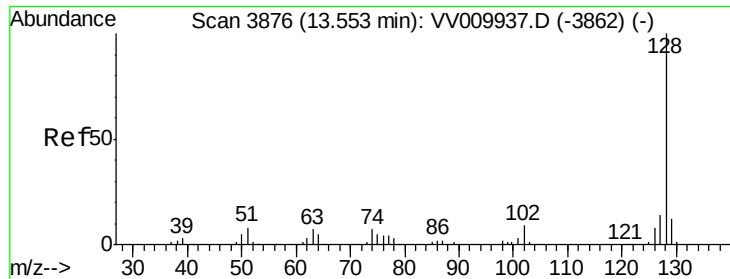
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 24.566 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

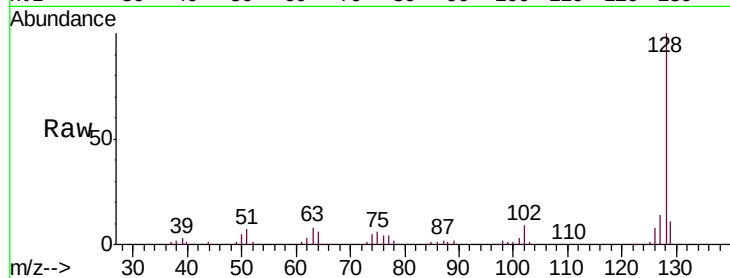
Tgt Ion:128 Resp: 107816

Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

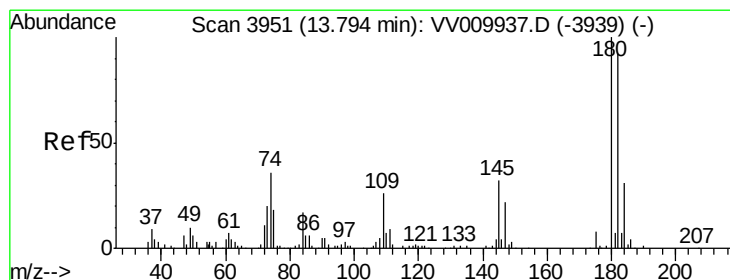
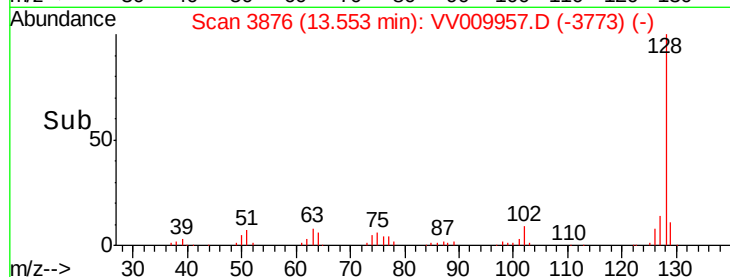
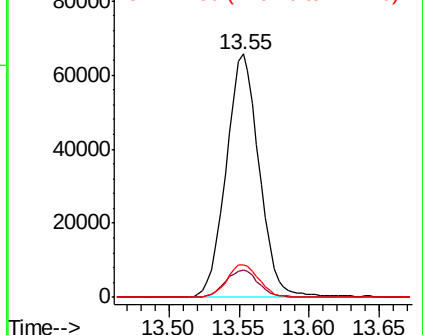
127 13.1 11.4 17.2



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: 25.750 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009957.D

Acq: 28 Mar 2019 05:09

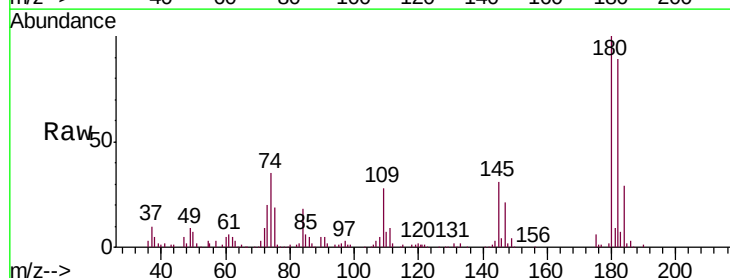
Tgt Ion:180 Resp: 64647

Ion Ratio Lower Upper

180 100

182 93.5 77.1 115.7

145 30.5 26.3 39.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

