

Data File : VV011007.D
Acq On : 22 May 2019 09:38
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

Quant Time: May 23 08:00:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 05:24:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	133282	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	129295	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	63628	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	36773	24.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.80%
7) Chloroethane-d5	1.56	69	25161	24.46	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.84%
10) 1,1-Dichloroethene-d2	2.12	63	69514	23.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.16%
20) 2-Butanone-d5	3.93	46	24402	46.54	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.08%
24) Chloroform-d	4.40	84	81741	23.67	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.68%
26) 1,2-Dichloroethane-d4	5.08	65	45476	22.35	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.40%
29) Benzene-d6	5.09	84	176483	25.00	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.00%
33) 1,2-Dichloropropane-d6	6.11	67	54454	24.28	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.12%
37) Toluene-d8	7.36	98	168607	25.69	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.76%
38) trans-1,3-Dichloropropene-	7.66	79	21219	23.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.16%
39) 2-Hexanone-d5	8.13	63	17432	41.67	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	83.34%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	49402	22.06	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	88.24%
61) 1,2-Dichlorobenzene-d4	11.67	152	63214	24.47	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.88%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	49673	25.244	ug/L	99
3) Chloromethane	1.25	50	44242	24.822	ug/L	99
5) Vinyl chloride	1.32	62	47055	26.286	ug/L	97
6) Bromomethane	1.51	94	13199	21.146	ug/L	98
8) Chloroethane	1.58	64	23359	26.078	ug/L	96
9) Trichlorofluoromethane	1.76	101	74597	26.146	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	43187	26.544	ug/L	98
12) 1,1-Dichloroethene	2.13	96	36725	26.111	ug/L	91
13) Acetone	2.19	43	21156	41.843	ug/L	96
14) Carbon disulfide	2.31	76	96234	24.433	ug/L	99
15) Methyl Acetate	2.45	43	23548	24.240	ug/L	96
16) Methylene chloride	2.53	84	52754	23.063	ug/L	99
17) Methyl tert-butyl Ether	2.80	73	117873	23.685	ug/L	100
18) trans-1,2-Dichloroethene	2.78	96	50301	25.925	ug/L	98
19) 1,1-Dichloroethane	3.22	63	90536	25.626	ug/L	97
21) 2-Butanone	4.02	43	30829	44.557	ug/L	91
22) cis-1,2-Dichloroethene	3.96	96	55418	25.652	ug/L	100

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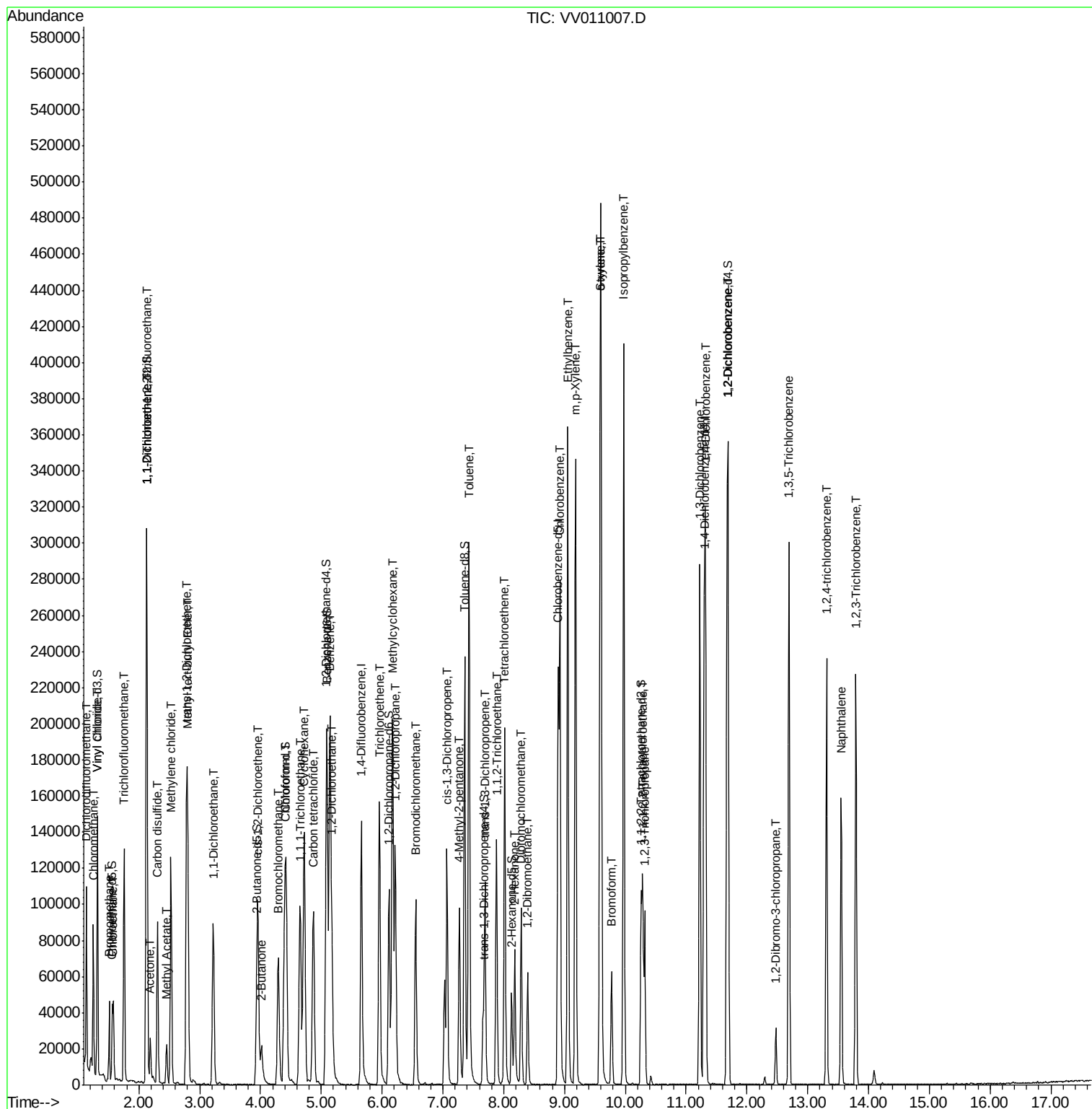
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	25484	24.891	ug/L	91
25) Chloroform	4.42	83	101050	25.277	ug/L	100
27) 1,2-Dichloroethane	5.17	62	58884	23.961	ug/L	96
30) Cyclohexane	4.72	56	73316	27.289	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	81437	28.000	ug/L	99
32) Carbon tetrachloride	4.87	117	73349	27.655	ug/L	100
34) Benzene	5.14	78	204815	27.479	ug/L	100
35) Trichloroethene	5.96	95	54436	26.434	ug/L	95
36) Methylcyclohexane	6.17	83	89366	29.354	ug/L	98
40) 1,2-Dichloropropane	6.22	63	52562	26.834	ug/L	99
41) Bromodichloromethane	6.55	83	69543	26.562	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	77523	26.589	ug/L	100
43) 4-Methyl-2-pentanone	7.27	43	63900	45.508	ug/L	98
44) Toluene	7.43	91	230516	27.870	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	62446	25.426	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	43956	26.335	ug/L	96
47) Tetrachloroethene	8.02	164	45263	28.157	ug/L	97
49) 2-Hexanone	8.18	43	45311	44.197	ug/L	99
50) Dibromochloromethane	8.29	129	51333	26.129	ug/L	100
51) 1,2-Dibromoethane	8.40	107	40361	25.005	ug/L	96
52) Chlorobenzene	8.92	112	152409	26.883	ug/L	98
53) Ethylbenzene	9.05	91	257044	28.520	ug/L	99
54) m,p-Xylene	9.18	106	101915	29.014	ug/L	100
55) o-xylene	9.59	106	97272	29.025	ug/L	100
56) Styrene	9.60	104	169808	29.400	ug/L	99
57) Isopropylbenzene	9.97	105	259556	29.359	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	54467	24.783	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	38179	23.648	ug/L	97
62) Bromoform	9.77	173	27730	24.550	ug/L	98
63) 1,3-Dichlorobenzene	11.22	146	118626	27.334	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	122001	27.296	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	116297	27.637	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	7998	23.926	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	90494	28.426	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	68613	27.269	ug/L	98
69) Naphthalene	13.55	128	120596	23.909	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	65548	26.684	ug/L	99

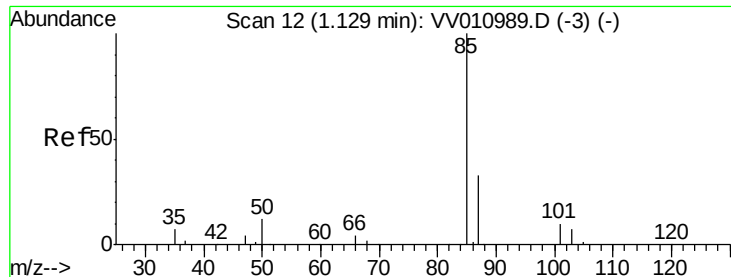
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 25.244 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.01 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

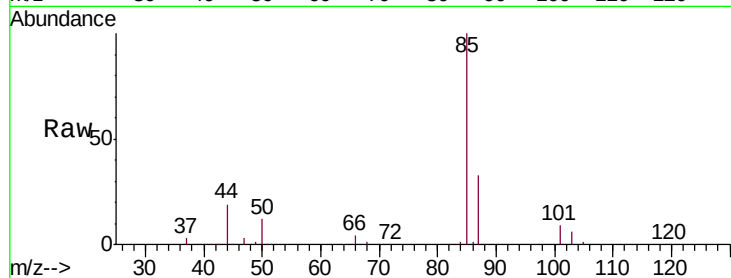
VSTD02599

Tgt Ion: 85 Resp: 49673

Ion Ratio Lower Upper

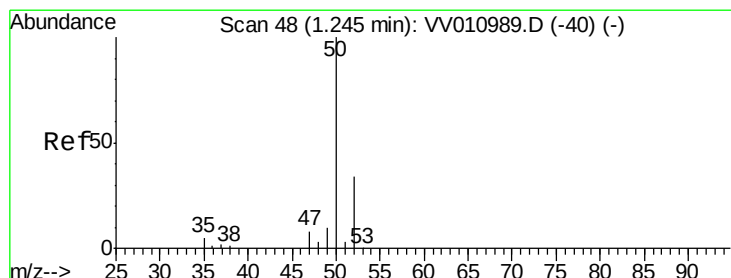
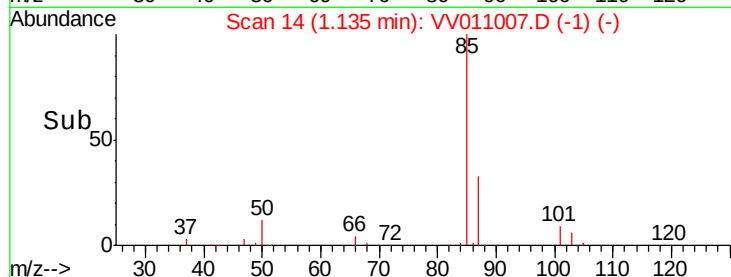
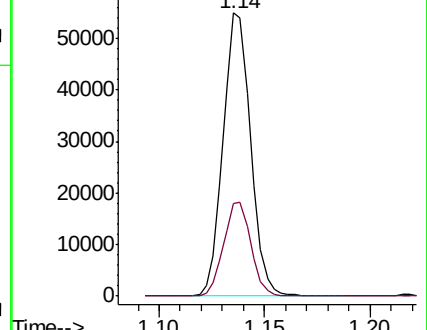
85 100

87 32.9 23.2 43.2



Abundance Ion 85.00 (84.70 to 85.70): VV011007.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV011007.D (-1) (-)



#3

Chloromethane

Concen: 24.822 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.01 min

Lab File: VV011007.D

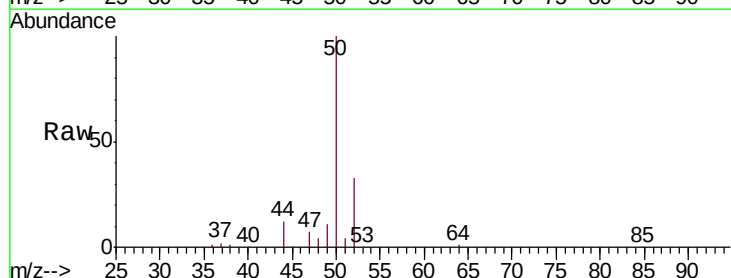
Acq: 22 May 2019 09:38

Tgt Ion: 50 Resp: 44242

Ion Ratio Lower Upper

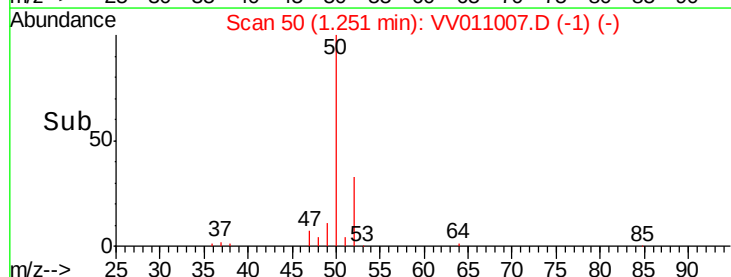
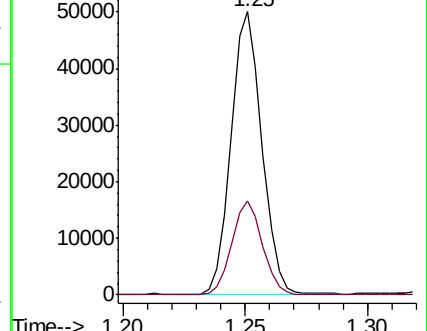
50 100

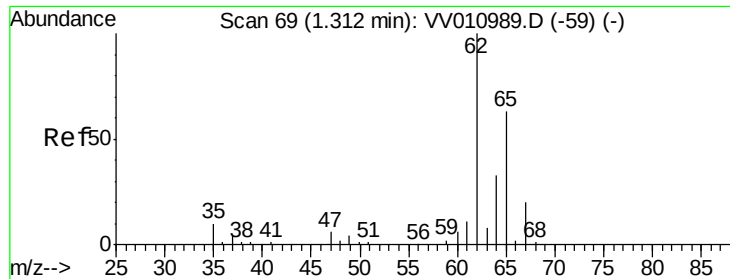
52 33.3 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV011007.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV011007.D (-1) (-)





#5

Vinyl chloride

Concen: 26.286 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.01 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

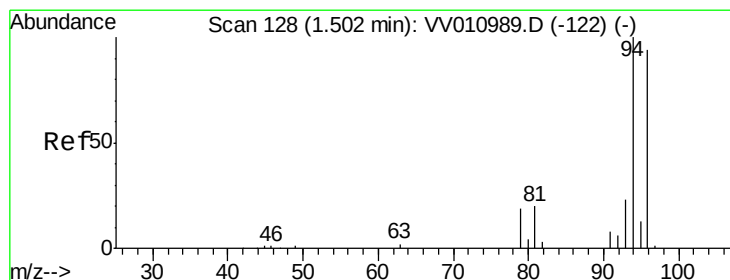
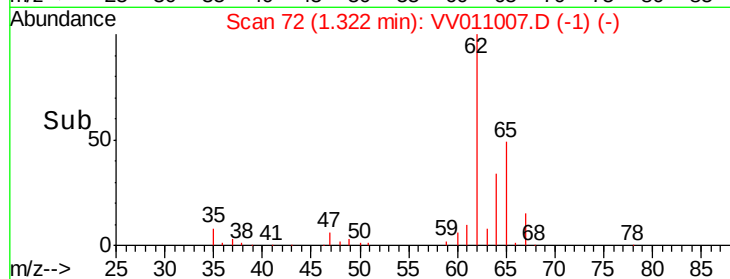
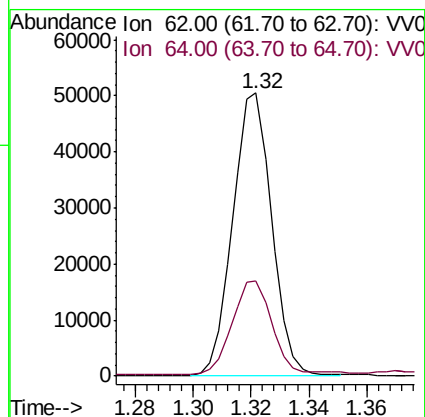
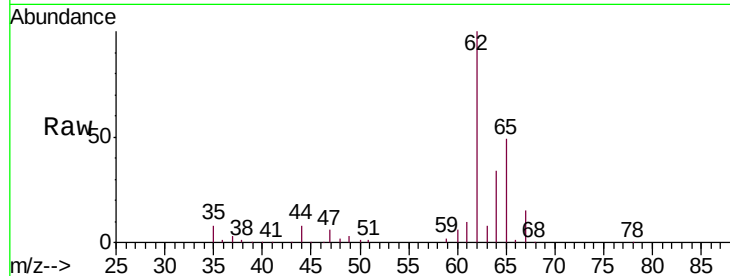
VSTD02599

Tgt Ion: 62 Resp: 47055

Ion Ratio Lower Upper

62 100

64 33.5 24.5 45.5



#6

Bromomethane

Concen: 21.146 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.01 min

Lab File: VV011007.D

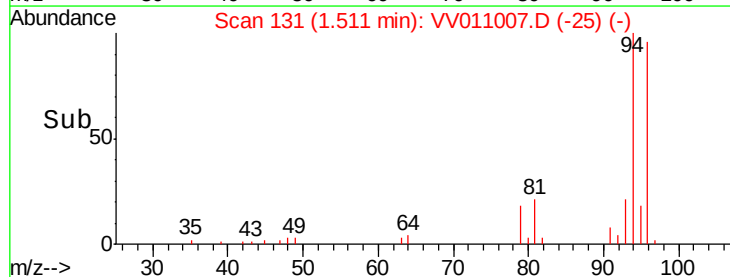
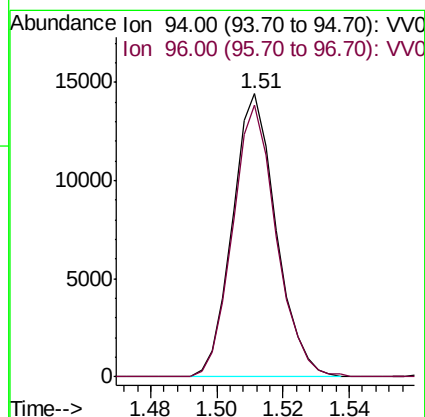
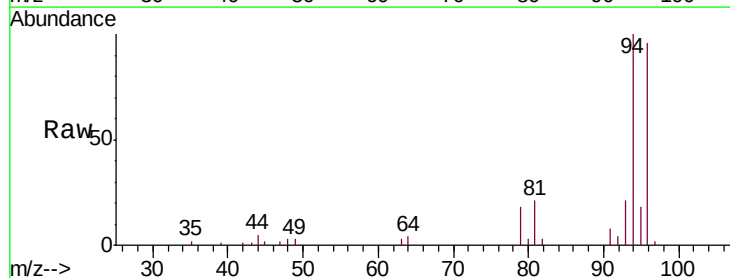
Acq: 22 May 2019 09:38

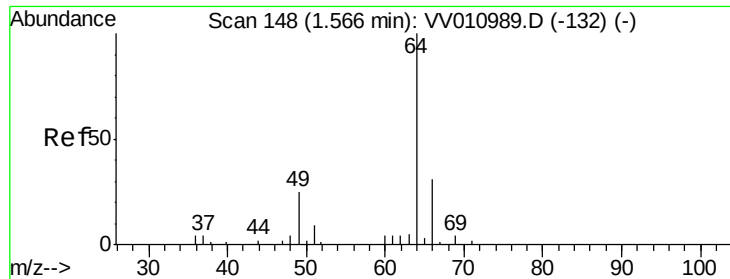
Tgt Ion: 94 Resp: 13199

Ion Ratio Lower Upper

94 100

96 95.9 9.3 177.7





#8

Chloroethane

Concen: 26.078 ug/L

RT: 1.58 min Scan# 153

Delta R.T. 0.02 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

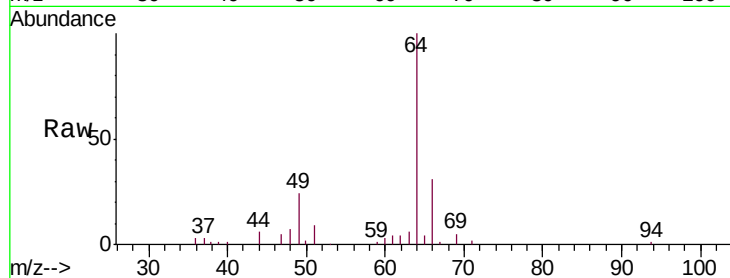
VSTD02599

Tgt Ion: 64 Resp: 23359

Ion Ratio Lower Upper

64 100

66 31.1 20.4 37.8



Abundance Ion 64.00 (63.70 to 64.70): VV011007.D (-153) (-)

Ion 66.00 (65.70 to 66.70): VV011007.D (-153) (-)

1.58

20000

15000

10000

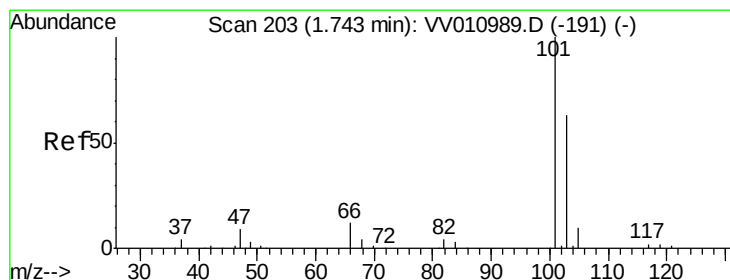
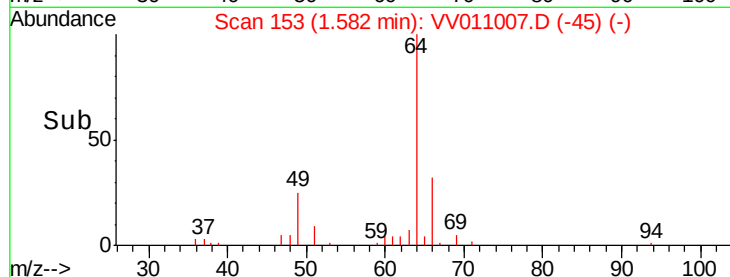
5000

0

1.55

1.60

Time-->



#9

Trichlorofluoromethane

Concen: 26.146 ug/L

RT: 1.76 min Scan# 207

Delta R.T. 0.01 min

Lab File: VV011007.D

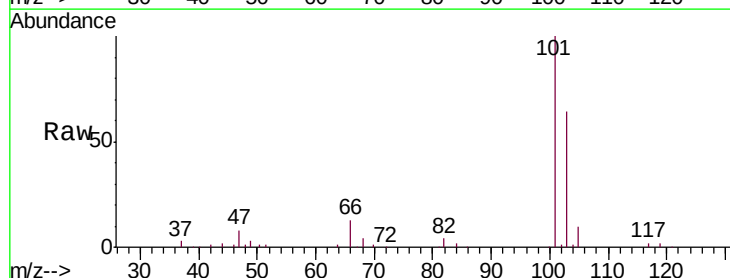
Acq: 22 May 2019 09:38

Tgt Ion: 101 Resp: 74597

Ion Ratio Lower Upper

101 100

103 65.4 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV011007.D (-207) (-)

Ion 103.00 (102.70 to 103.70): VV011007.D (-207) (-)

1.76

60000

40000

20000

0

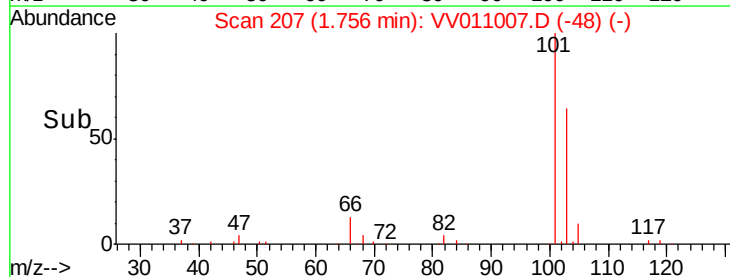
1.70

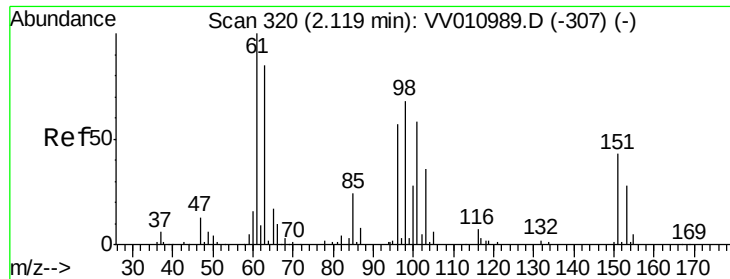
1.75

1.80

1.85

Time-->





#11

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

Concen: 26.544 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.01 min

Lab File: VV011007.D

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Instrument :

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ClientSampleId :

VSTD02599

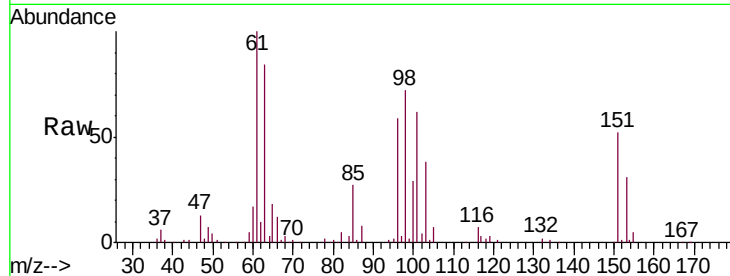
Tgt Ion: 101 Resp: 43187

Ion Ratio Lower Upper

101 100

85 43.4 33.9 50.9

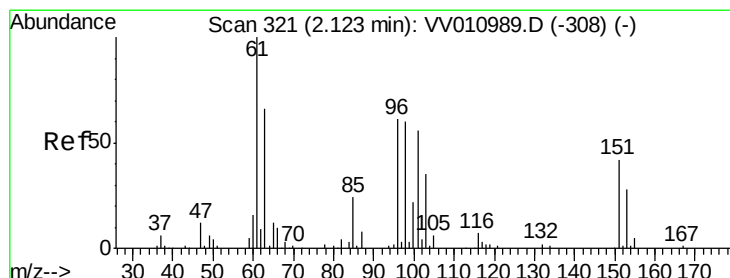
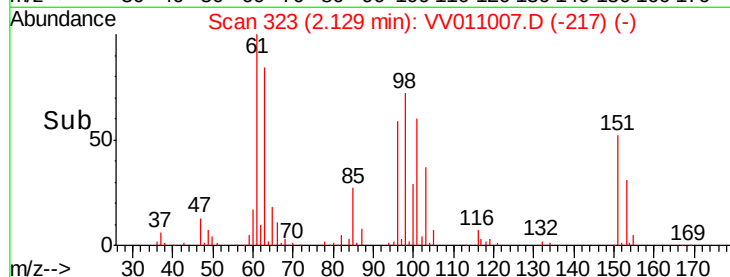
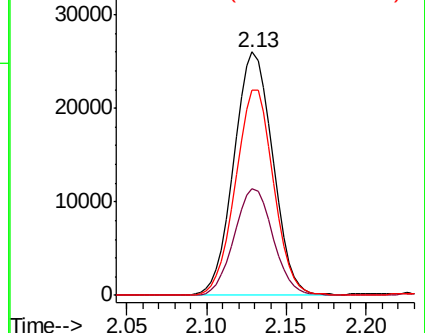
151 82.5 64.7 97.1



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: 26.111 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.01 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

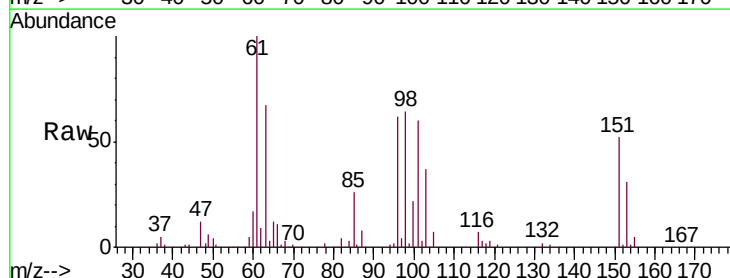
Tgt Ion: 96 Resp: 36725

Ion Ratio Lower Upper

96 100

61 162.4 117.8 218.8

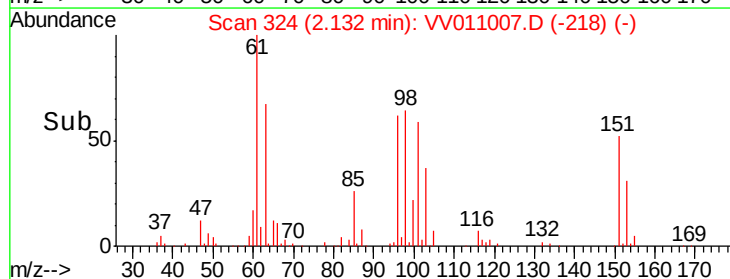
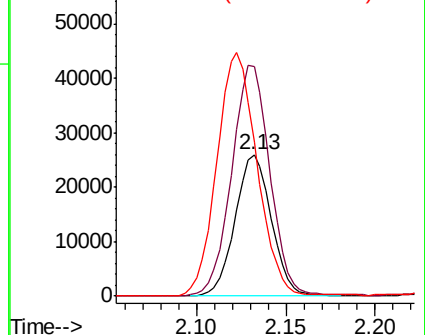
63 108.3 87.1 161.7

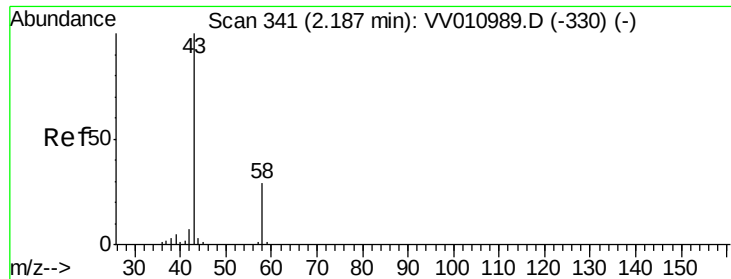


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 41.843 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

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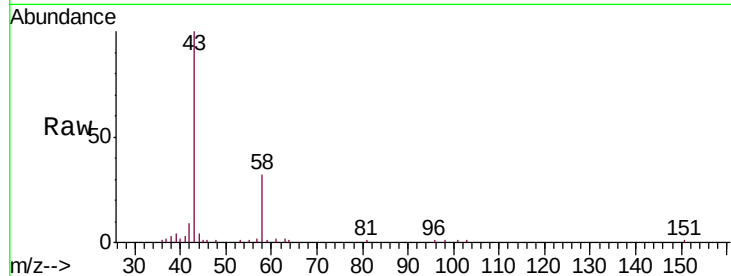
VSTD02599

Tgt Ion: 43 Resp: 21156

Ion Ratio Lower Upper

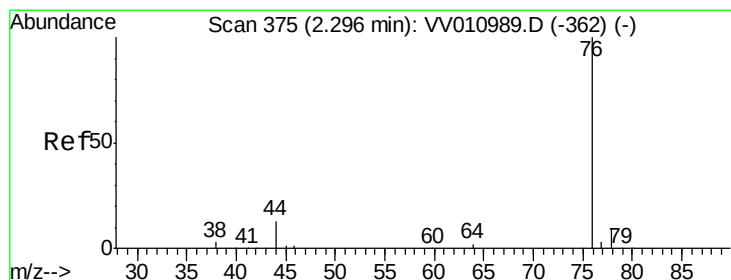
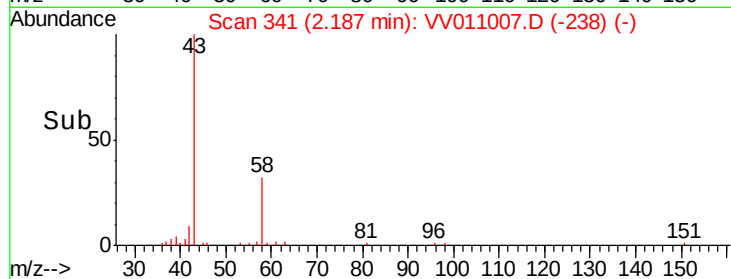
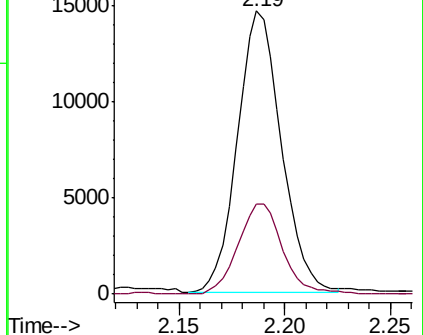
43 100

58 32.3 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV010989.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV010989.D (-330) (-)



#14

Carbon disulfide

Concen: 24.433 ug/L

RT: 2.31 min Scan# 375

Delta R.T. 0.01 min

Lab File: VV011007.D

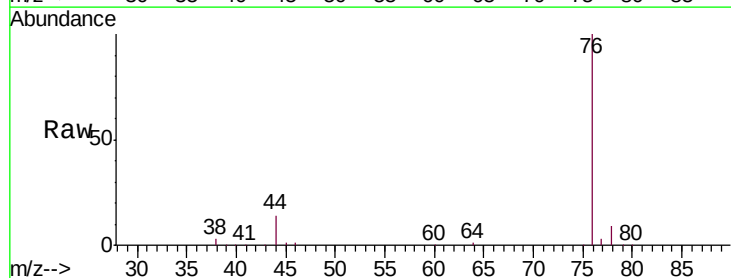
Acq: 22 May 2019 09:38

Tgt Ion: 76 Resp: 96234

Ion Ratio Lower Upper

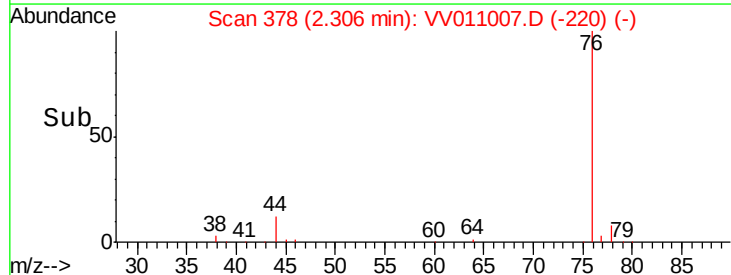
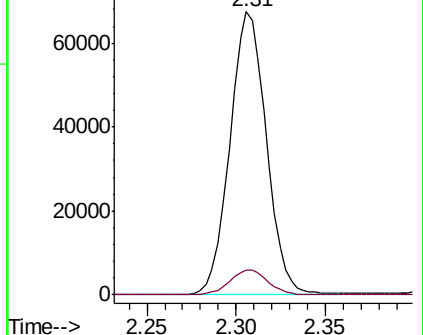
76 100

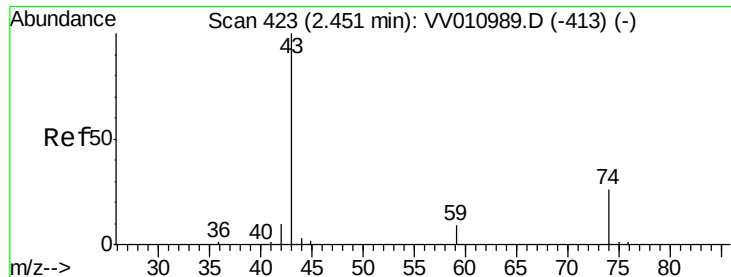
78 8.7 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV010989.D (-362) (-)

Ion 78.00 (77.70 to 78.70): VV010989.D (-362) (-)

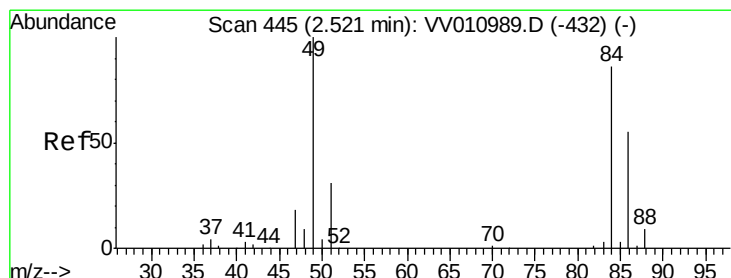
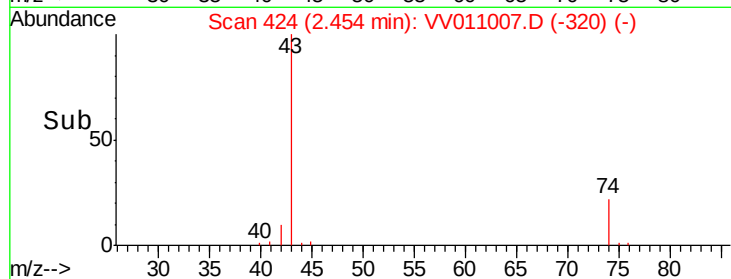
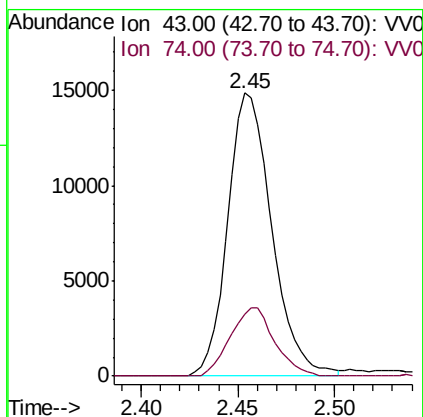
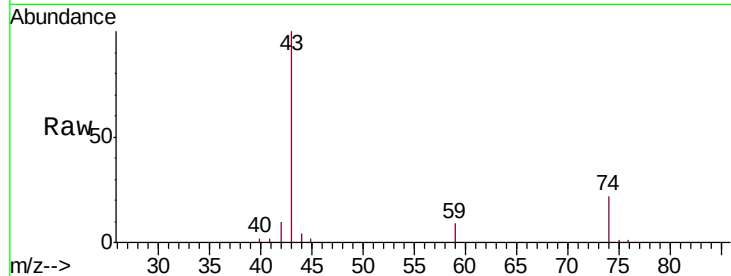




#15
Methyl Acetate
Concen: 24.240 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

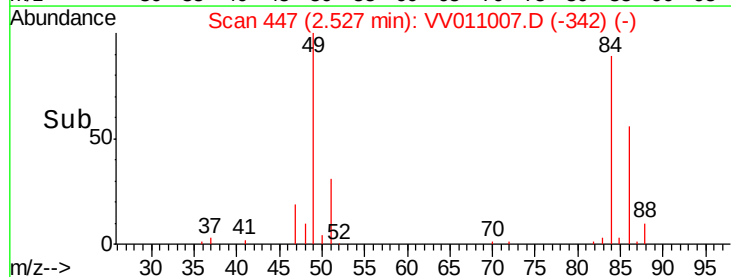
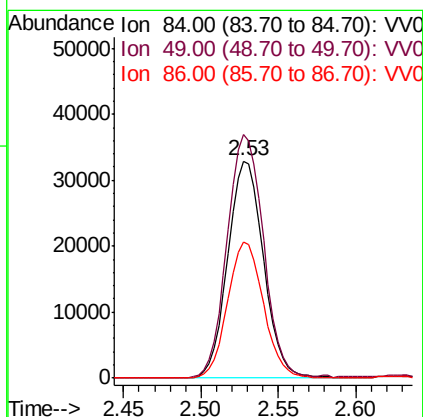
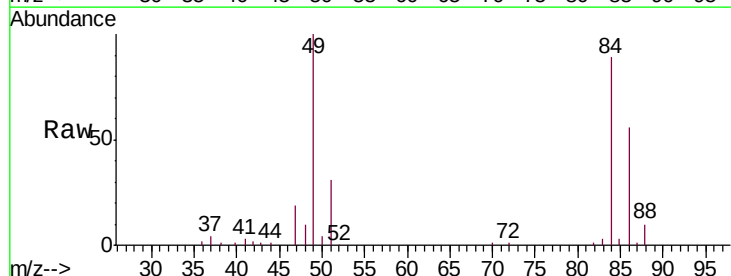
Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

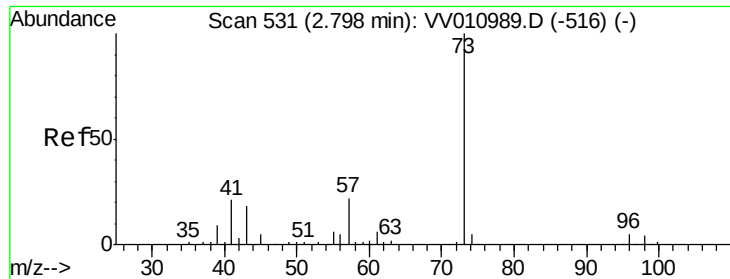
Tgt Ion: 43 Resp: 23548
Ion Ratio Lower Upper
43 100
74 24.3 21.1 31.7



#16
Methylene chloride
Concen: 23.063 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.01 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

Tgt Ion: 84 Resp: 52754
Ion Ratio Lower Upper
84 100
49 112.2 77.4 143.8
86 62.7 44.0 81.6

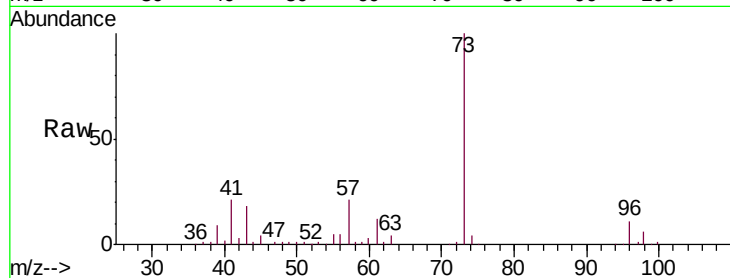




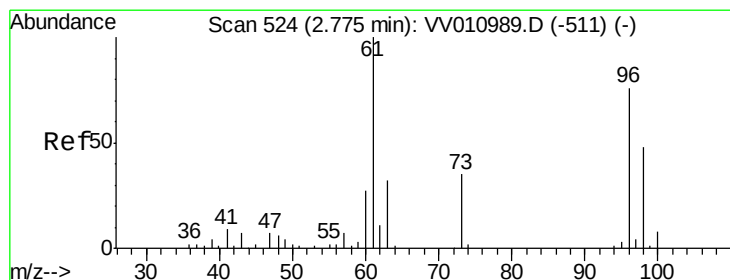
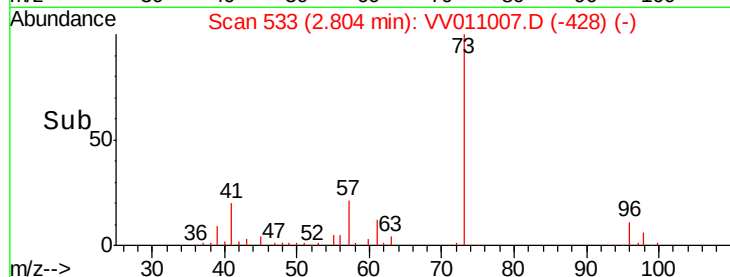
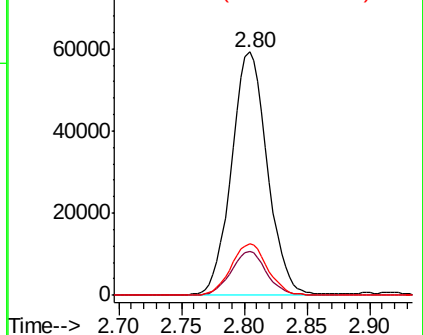
#17
Methyl tert-butyl Ether
Concen: 23.685 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.01 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

Tgt Ion: 73 Resp: 117873
Ion Ratio Lower Upper
73 100
43 17.8 14.5 21.7
57 21.5 17.3 25.9

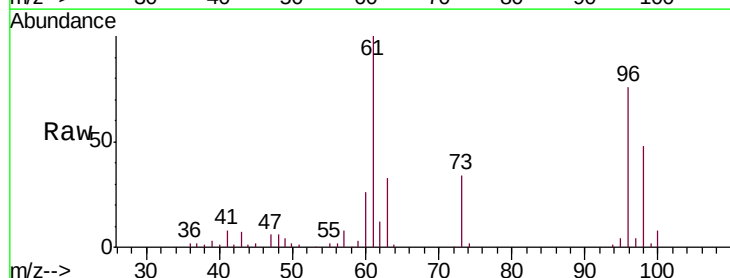


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

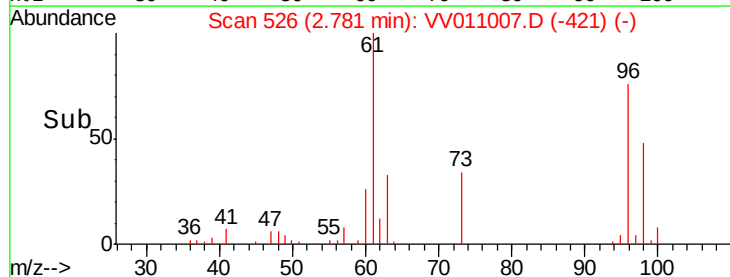
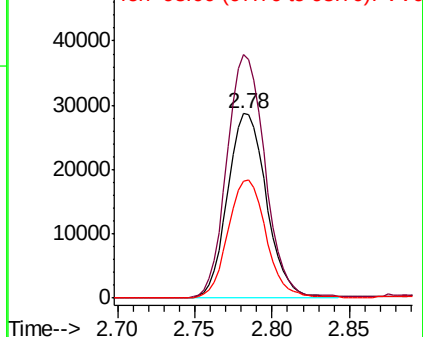


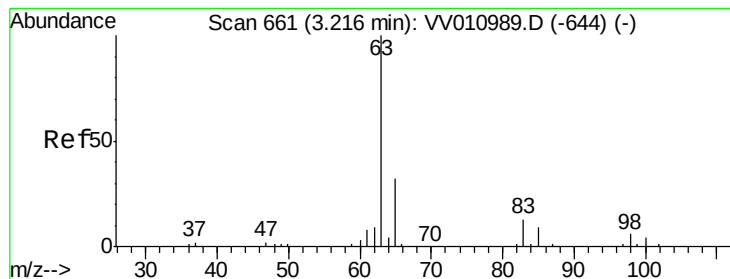
#18
trans-1,2-Dichloroethene
Concen: 25.925 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.01 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

Tgt Ion: 96 Resp: 50301
Ion Ratio Lower Upper
96 100
61 131.9 89.7 166.5
98 63.5 44.5 82.7



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





#19

1,1-Dichloroethane

Concen: 25.626 ug/L

RT: 3.22 min Scan# 663

Delta R.T. 0.01 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

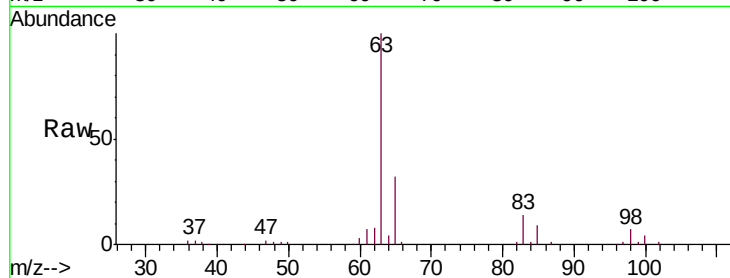
Tgt Ion: 63 Resp: 90536

Ion Ratio Lower Upper

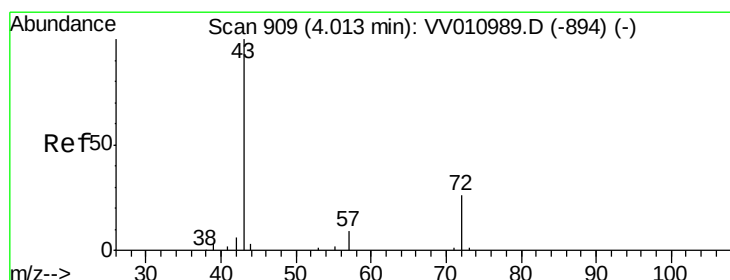
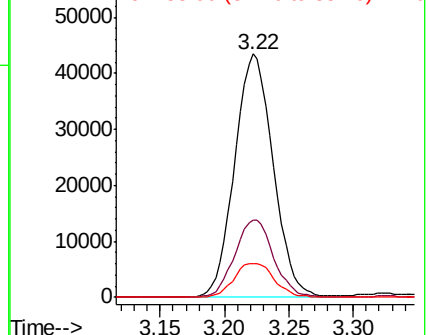
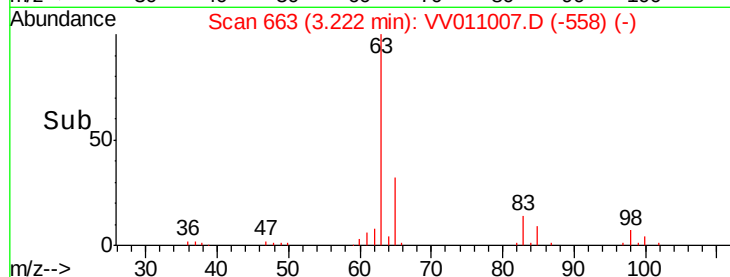
63 100

65 31.6 21.1 39.3

83 13.9 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VV011007.D (-558) (-)



#21

2-Butanone

Concen: 44.557 ug/L

RT: 4.02 min Scan# 910

Delta R.T. 0.00 min

Lab File: VV011007.D

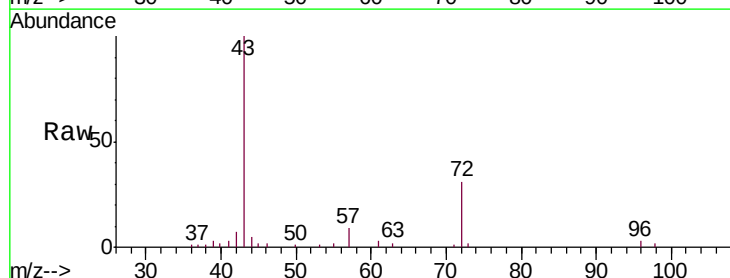
Acq: 22 May 2019 09:38

Tgt Ion: 43 Resp: 30829

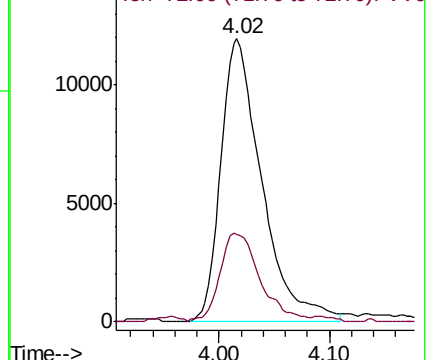
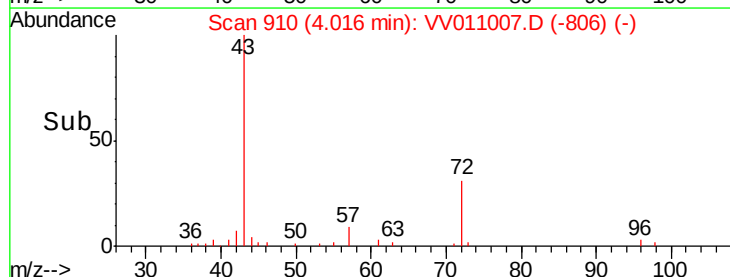
Ion Ratio Lower Upper

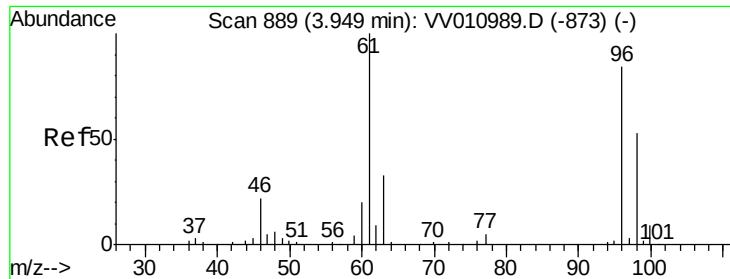
43 100

72 31.0 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VV011007.D (-806) (-)



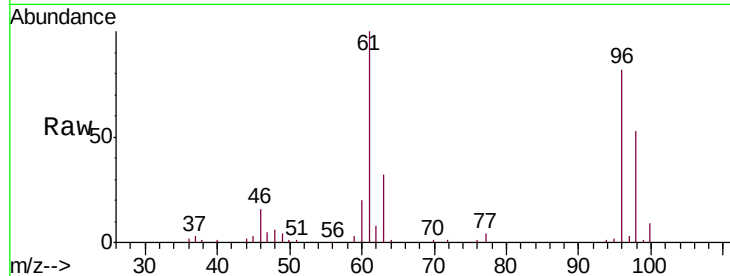


#22

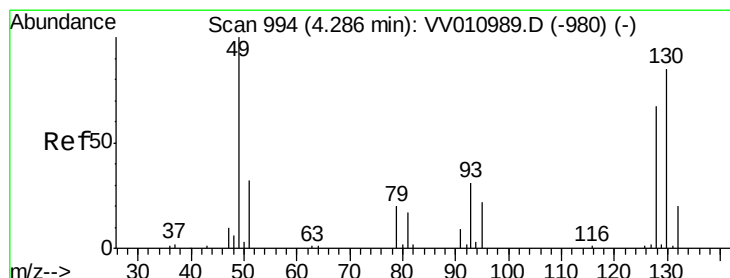
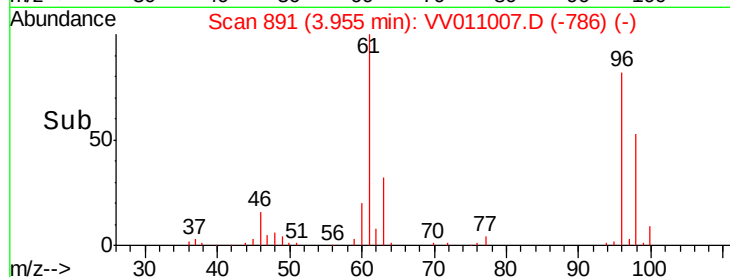
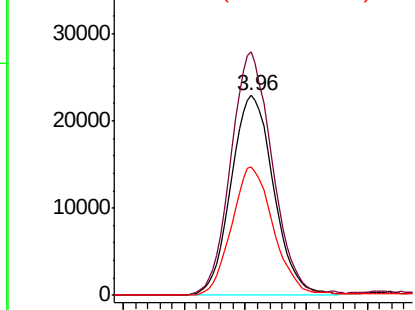
cis-1,2-Dichloroethene
 Concen: 25.652 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. 0.01 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02599

Tgt Ion: 96 Resp: 55418
 Ion Ratio Lower Upper
 96 100
 61 122.0 85.4 158.6
 98 64.3 45.1 83.7



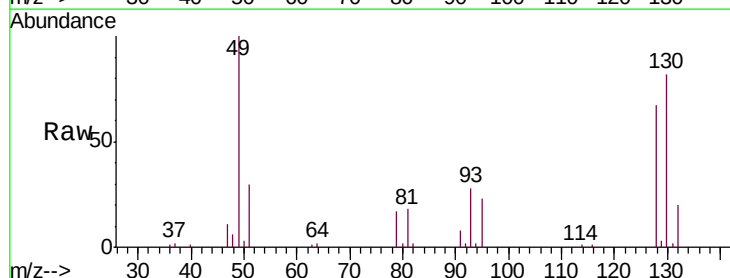
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



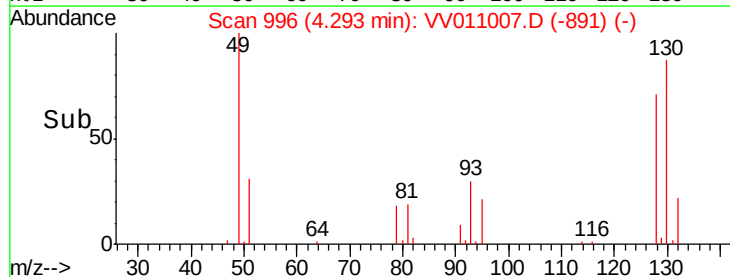
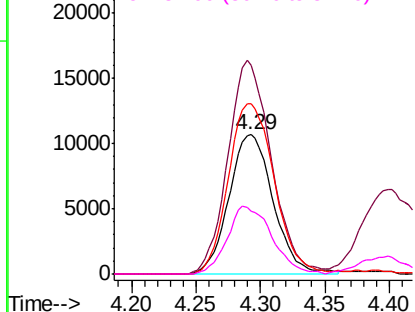
#23

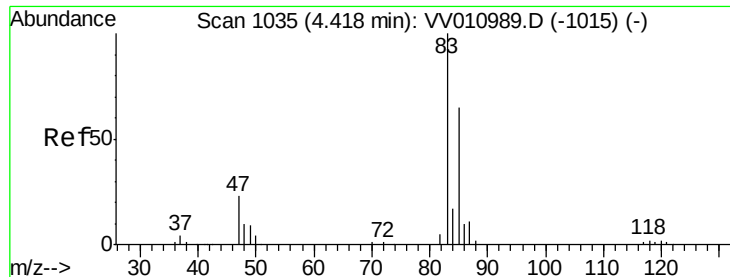
Bromochloromethane
 Concen: 24.891 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. 0.01 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

Tgt Ion: 128 Resp: 25484
 Ion Ratio Lower Upper
 128 100
 49 149.4 111.6 207.4
 130 122.0 95.5 177.3
 51 45.4 39.8 59.6



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

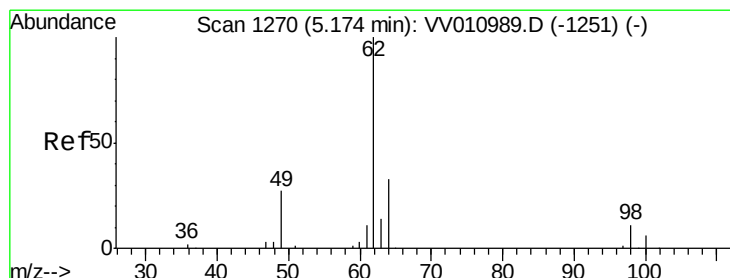
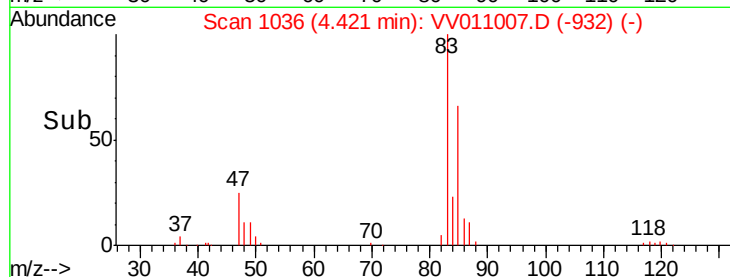
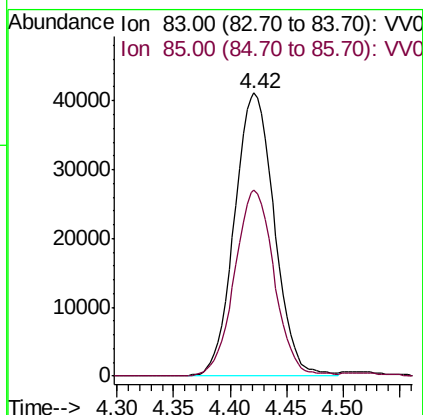
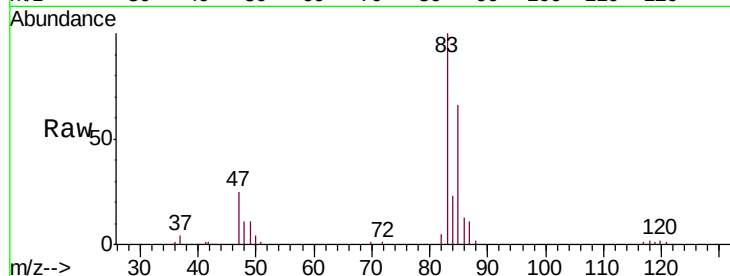




#25
Chloroform
Concen: 25.277 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

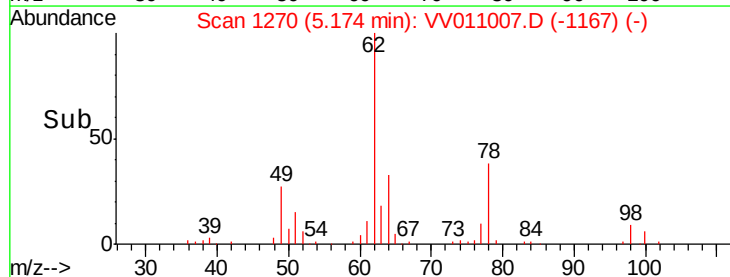
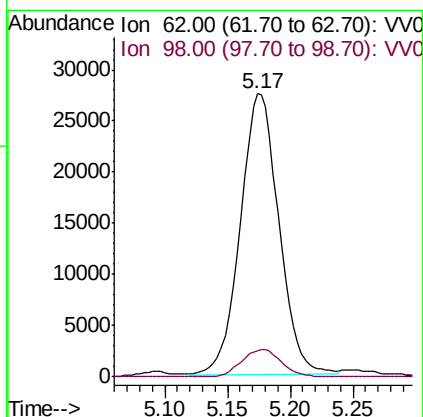
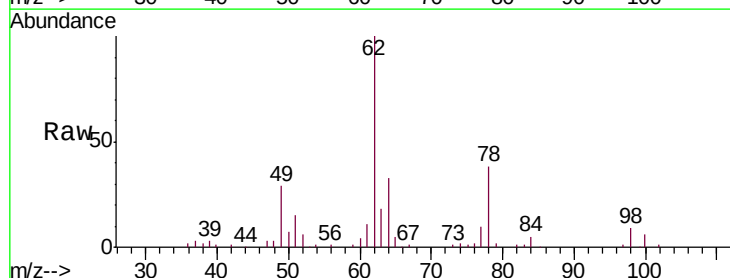
Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

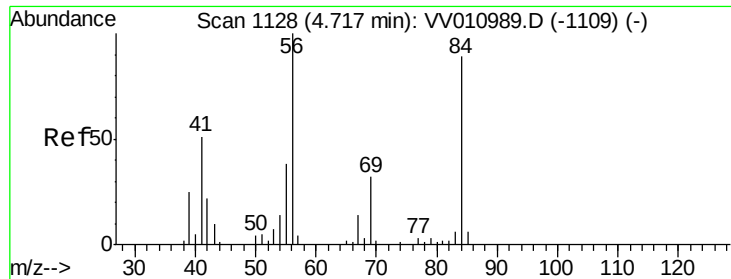
Tgt Ion: 83 Resp: 101050
Ion Ratio Lower Upper
83 100
85 65.3 45.6 84.8



#27
1,2-Dichloroethane
Concen: 23.961 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

Tgt Ion: 62 Resp: 58884
Ion Ratio Lower Upper
62 100
98 9.4 8.6 13.0

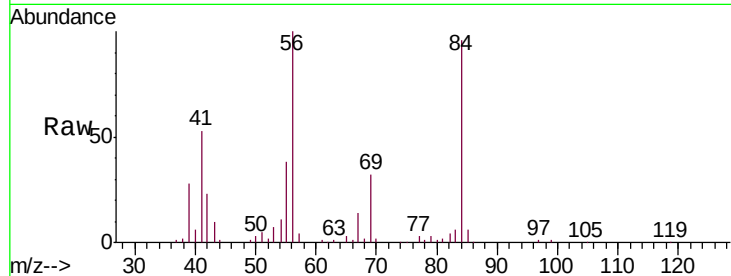




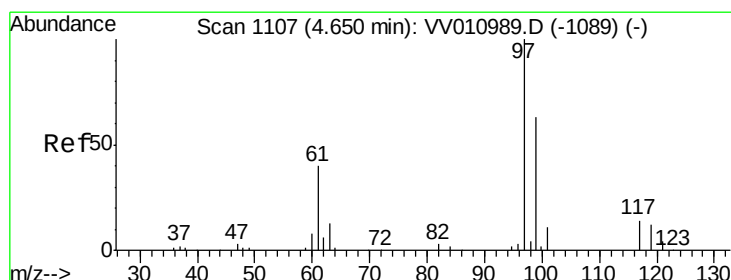
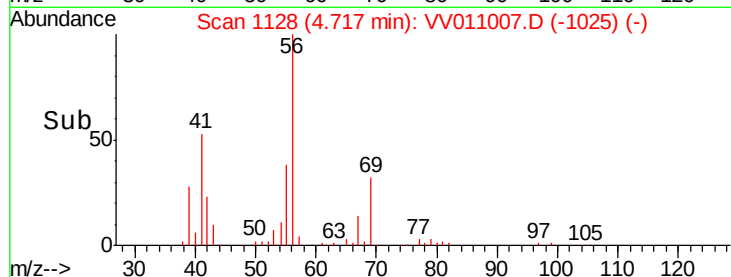
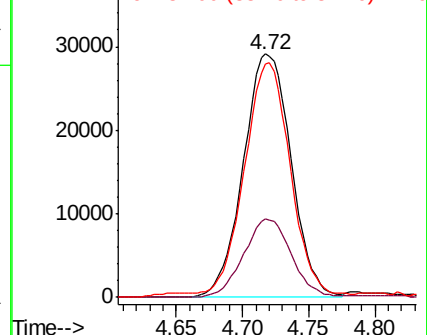
#30
Cyclohexane
Concen: 27.289 ug/L
RT: 4.72 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

Tgt Ion: 56 Resp: 73316
Ion Ratio Lower Upper
56 100
69 32.1 25.1 37.7
84 90.9 72.4 108.6

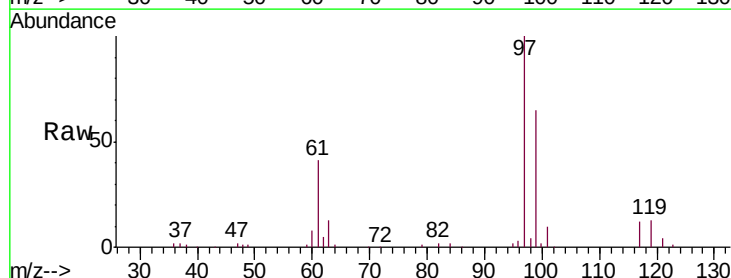


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

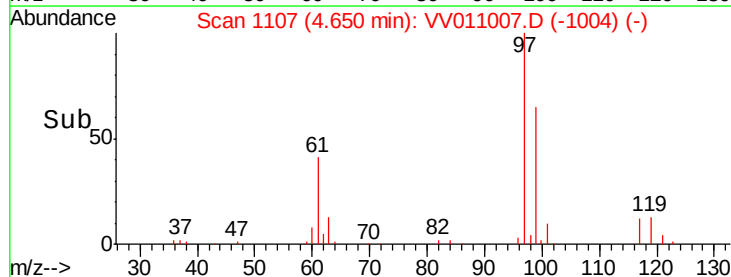
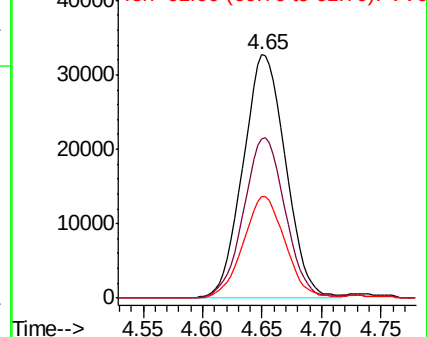


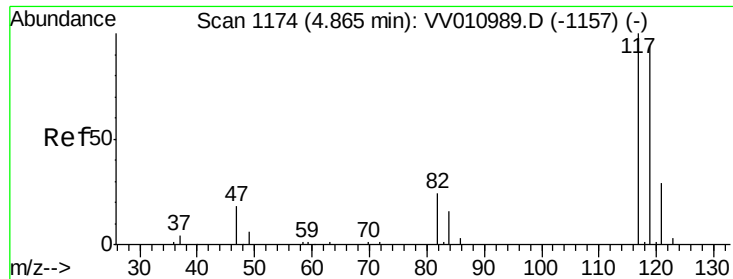
#31
1,1,1-Trichloroethane
Concen: 28.000 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

Tgt Ion: 97 Resp: 81437
Ion Ratio Lower Upper
97 100
99 64.1 51.0 76.4
61 41.0 33.9 50.9



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 27.655 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

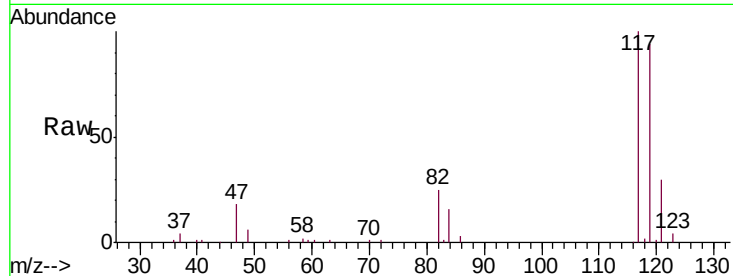
VSTD02599

Tgt Ion:117 Resp: 73349

Ion Ratio Lower Upper

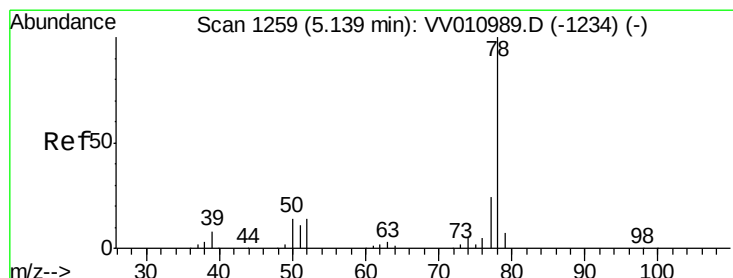
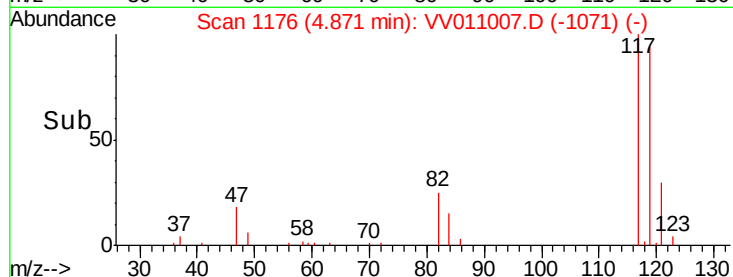
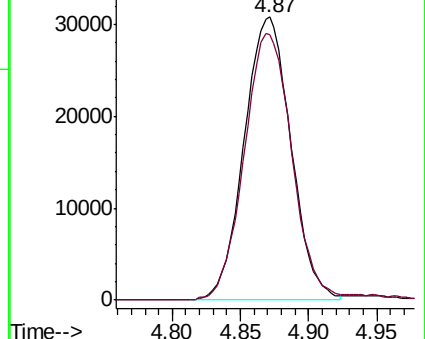
117 100

119 95.5 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 27.479 ug/L

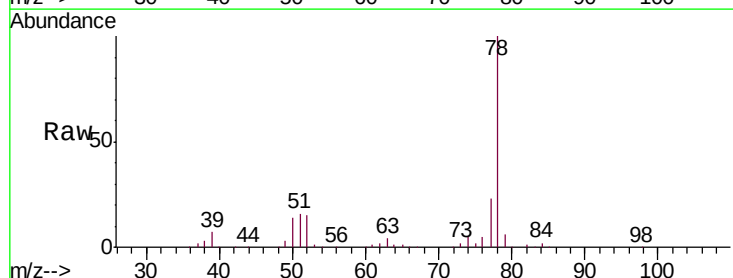
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

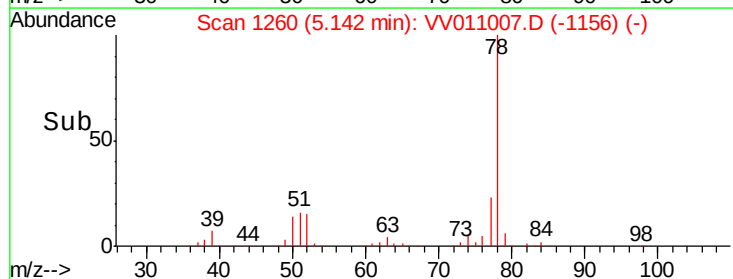
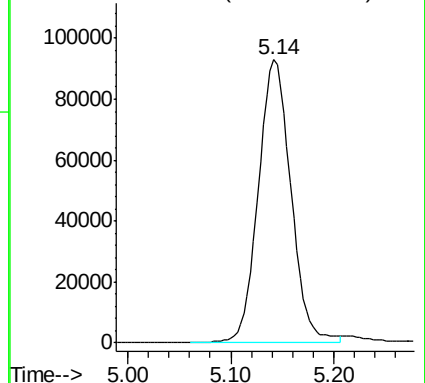
Lab File: VV011007.D

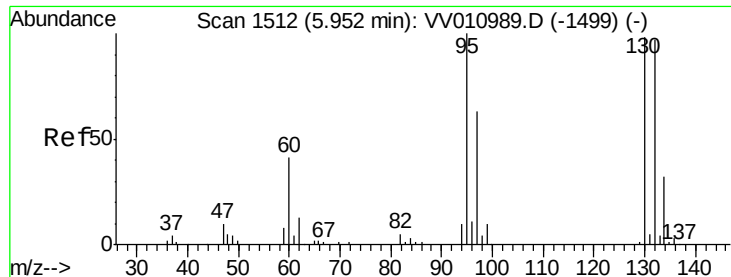
Acq: 22 May 2019 09:38

Tgt Ion: 78 Resp: 204815



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 26.434 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

Tgt Ion: 95 Resp: 54436

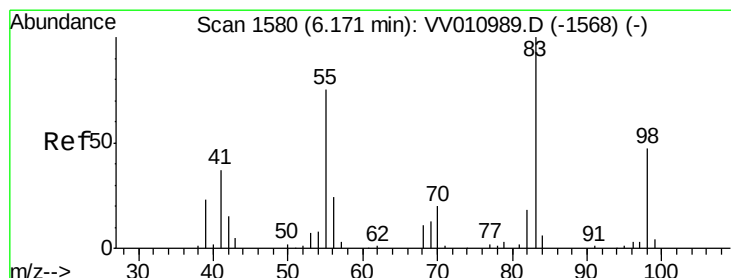
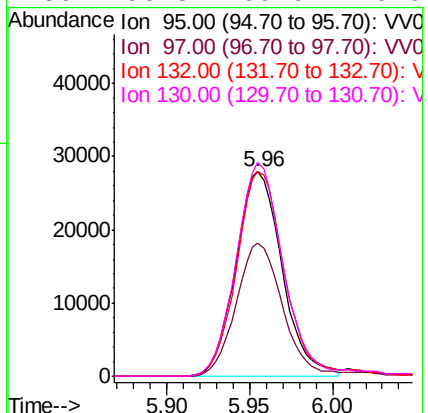
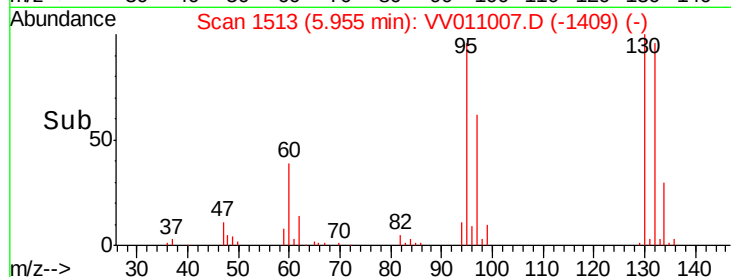
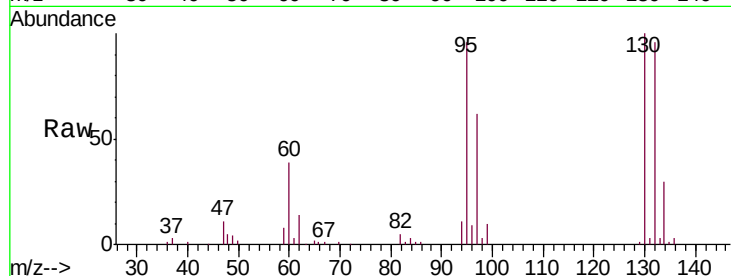
Ion Ratio Lower Upper

95 100

97 65.3 43.4 80.6

132 102.0 68.8 127.8

130 106.3 69.9 129.9



#36

Methylcyclohexane

Concen: 29.354 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

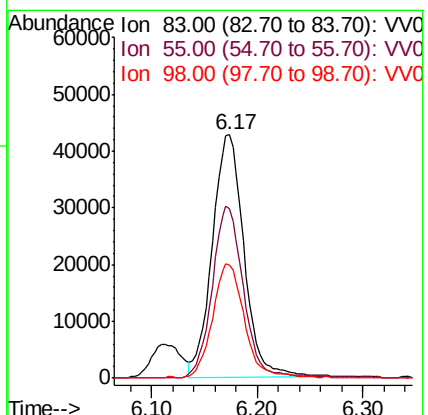
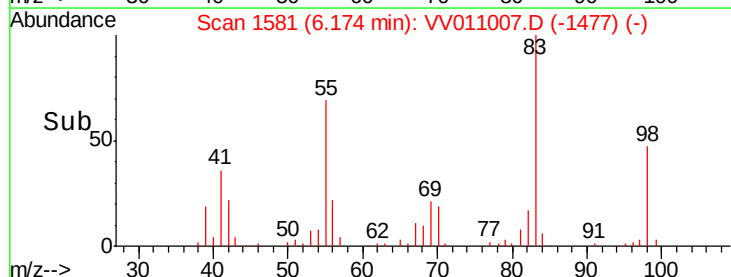
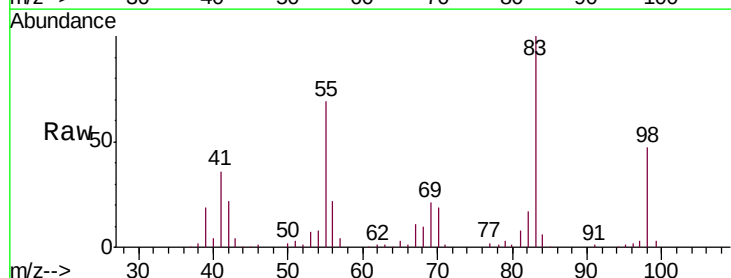
Tgt Ion: 83 Resp: 89366

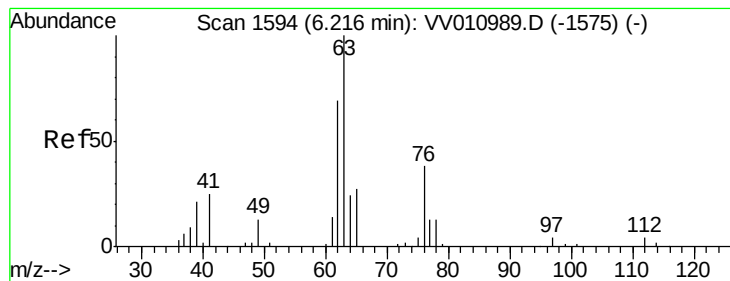
Ion Ratio Lower Upper

83 100

55 69.1 57.0 85.4

98 46.2 36.2 54.4





#40

1,2-Dichloropropane

Concen: 26.834 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

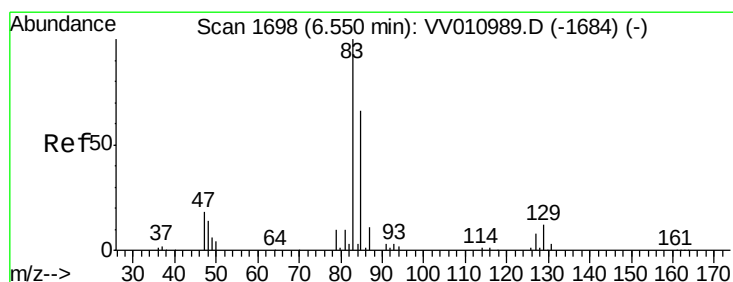
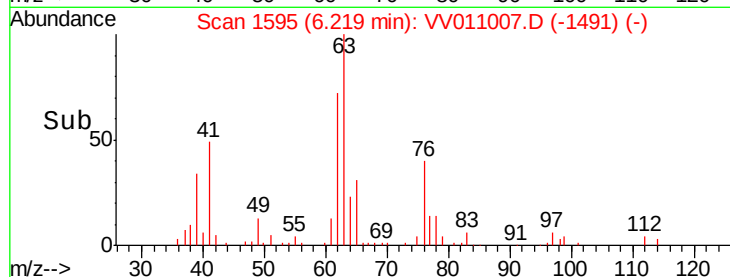
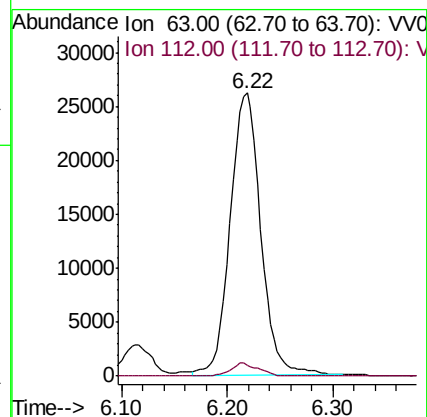
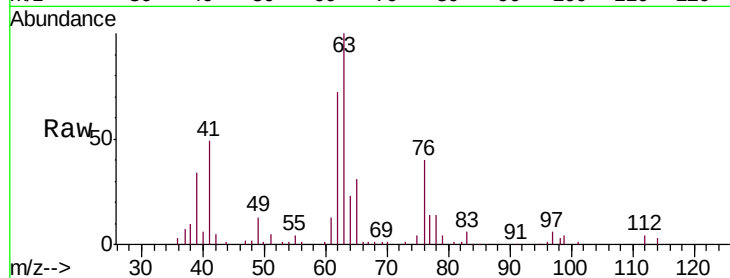
VSTD02599

Tgt Ion: 63 Resp: 52562

Ion Ratio Lower Upper

63 100

112 4.1 3.6 5.4



#41

Bromodichloromethane

Concen: 26.562 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

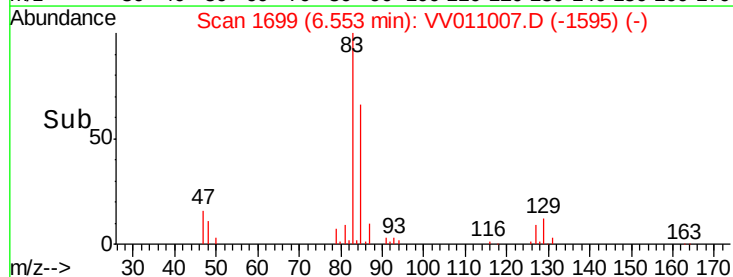
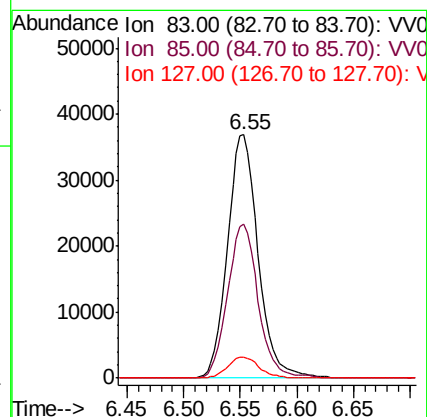
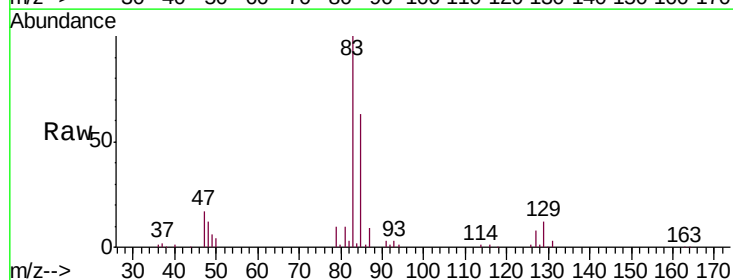
Tgt Ion: 83 Resp: 69543

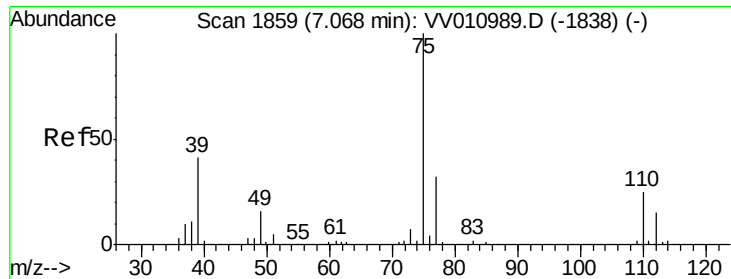
Ion Ratio Lower Upper

83 100

85 63.3 46.7 86.7

127 8.4 7.1 10.7



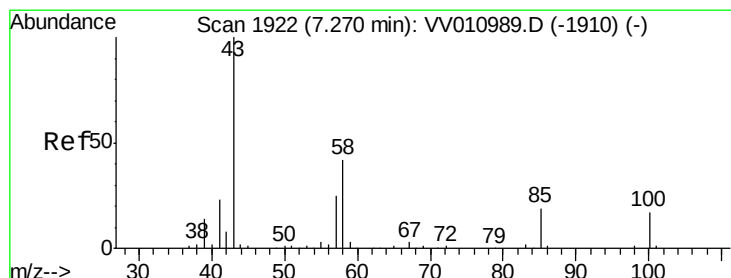
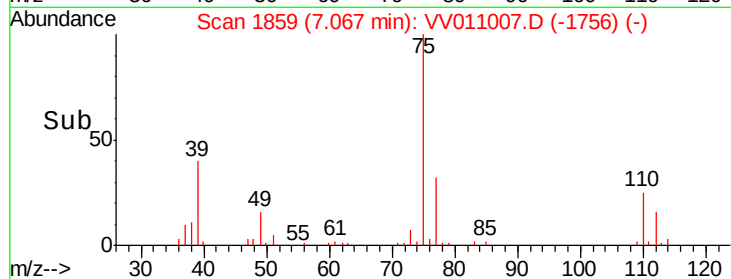
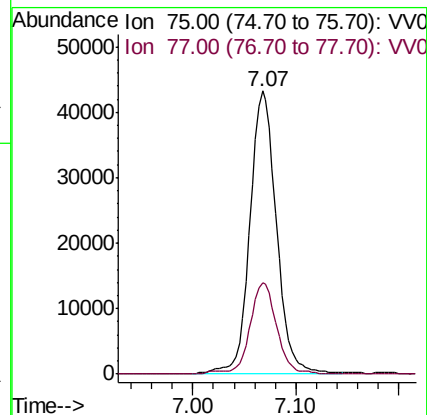
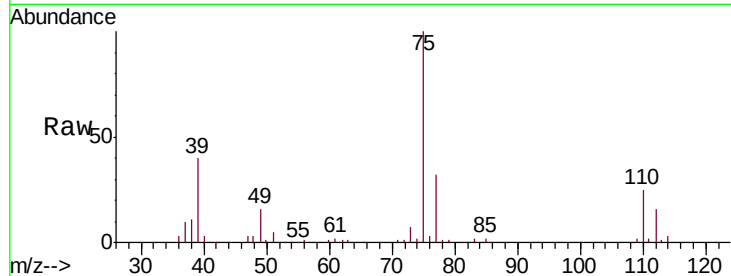


#42

cis-1,3-Dichloropropene
 Concen: 26.589 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02599

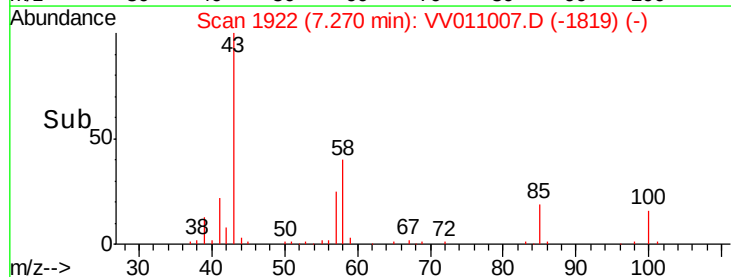
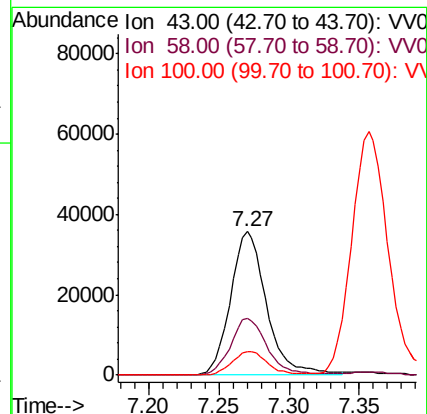
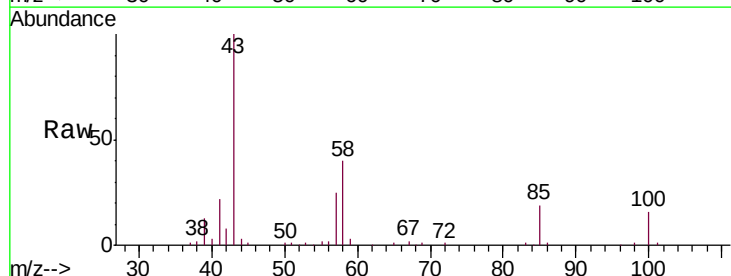
Tgt Ion: 75 Resp: 77523
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.9 42.5

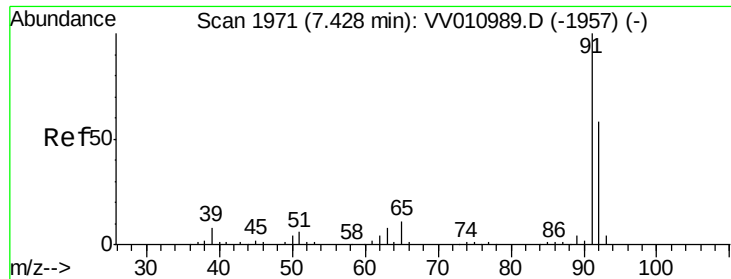


#43

4-Methyl-2-pentanone
 Concen: 45.508 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

Tgt Ion: 43 Resp: 63900
 Ion Ratio Lower Upper
 43 100
 58 40.1 33.1 49.7
 100 16.5 13.1 19.7





#44

Toluene

Concen: 27.870 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

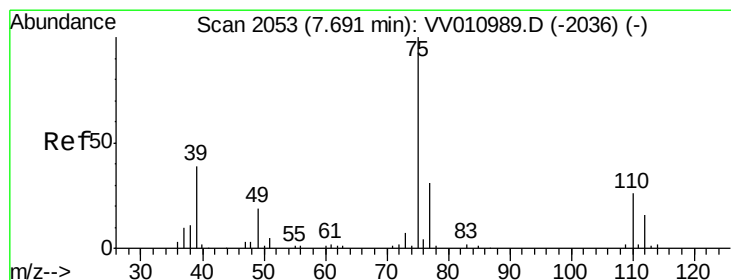
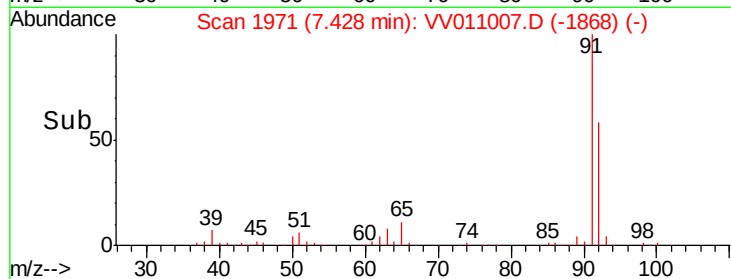
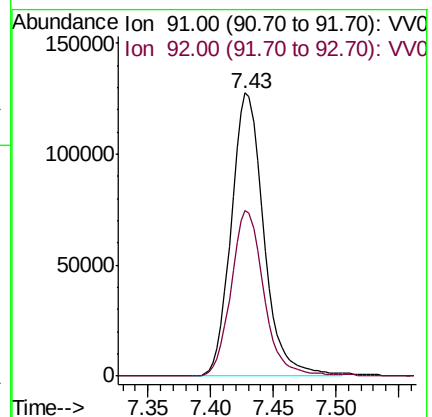
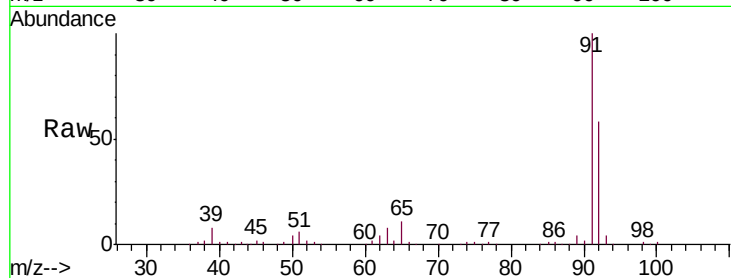
VSTD02599

Tgt Ion: 91 Resp: 230516

Ion Ratio Lower Upper

91 100

92 58.5 40.0 74.4



#45

trans-1,3-Dichloropropene

Concen: 25.426 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV011007.D

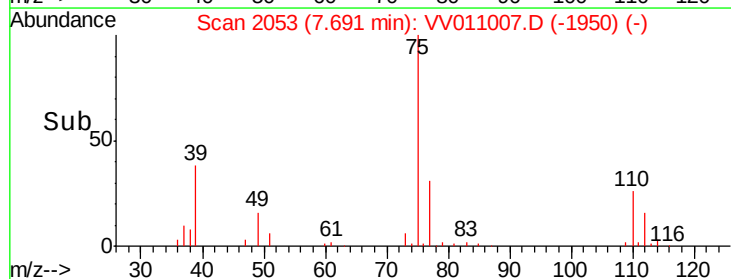
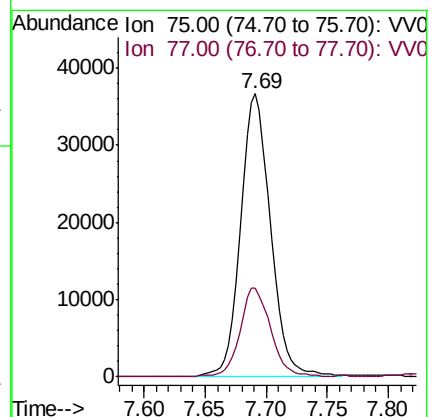
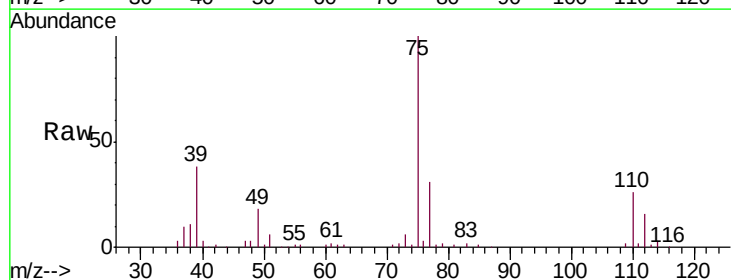
Acq: 22 May 2019 09:38

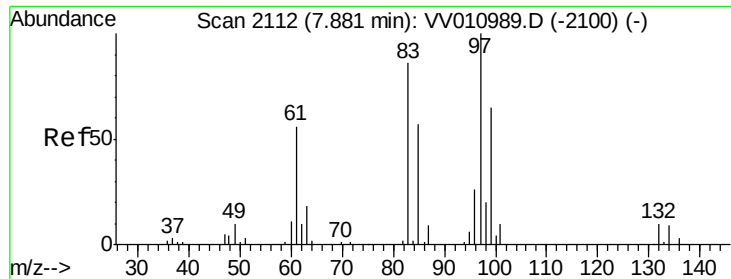
Tgt Ion: 75 Resp: 62446

Ion Ratio Lower Upper

75 100

77 31.2 22.0 41.0

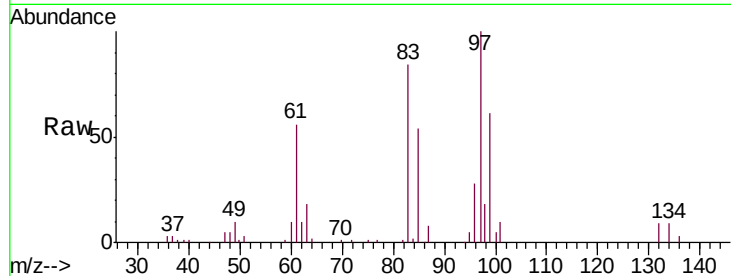




#46
 1,1,2-Trichloroethane
 Concen: 26.335 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02599

Tgt Ion:	97	Resp:	43956
Ion	Ratio	Lower	Upper
97	100		
83	83.7	61.6	114.4
85	54.3	40.2	74.6
99	61.1	45.1	83.7



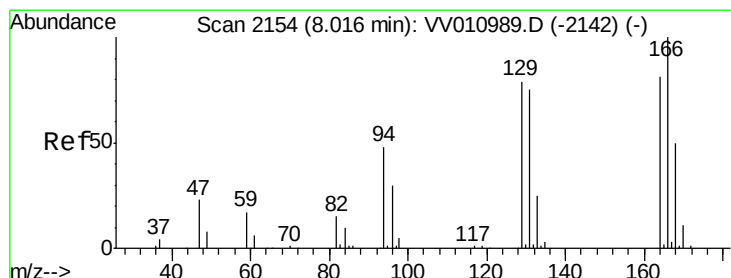
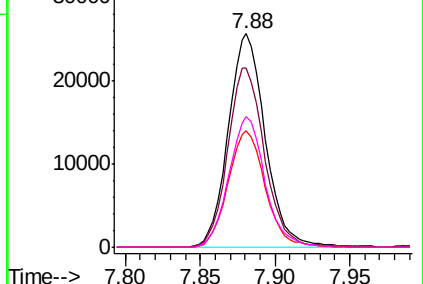
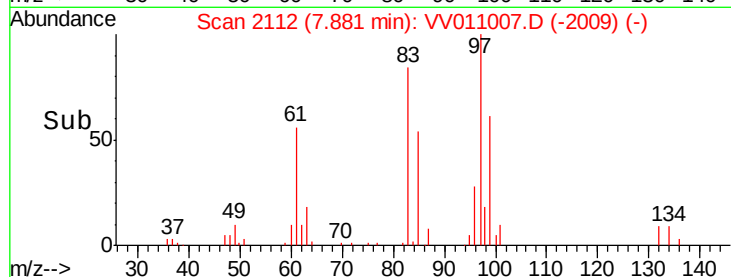
Abundance

Ion 97.00 (96.70 to 97.70): VV011007.D (-2009) (-)

Ion 83.00 (82.70 to 83.70): VV011007.D (-2009) (-)

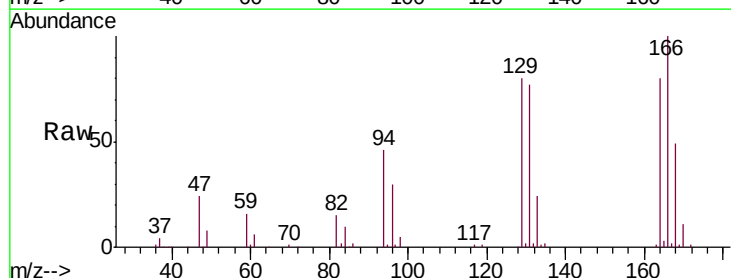
Ion 85.00 (84.70 to 85.70): VV011007.D (-2009) (-)

Ion 99.00 (98.70 to 99.70): VV011007.D (-2009) (-)



#47
 Tetrachloroethene
 Concen: 28.157 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

Tgt Ion:	164	Resp:	45263
Ion	Ratio	Lower	Upper
164	100		
129	99.8	67.8	125.8
131	96.3	64.1	119.1
166	124.7	86.1	159.9



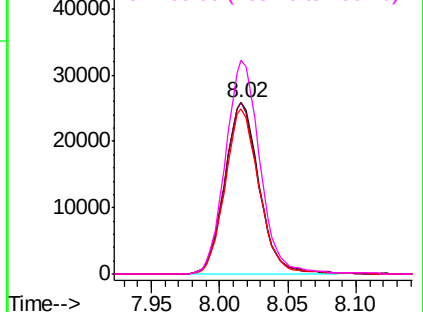
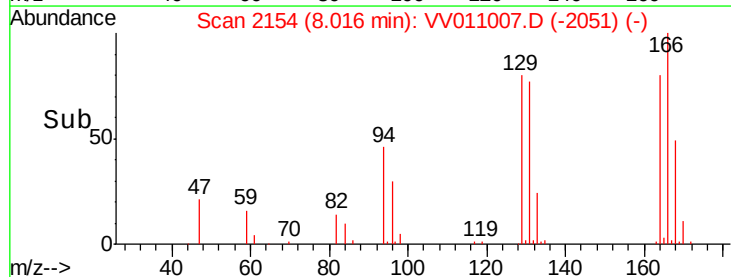
Abundance

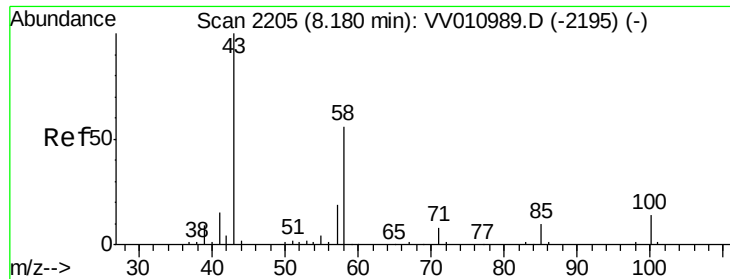
Ion 164.00 (163.70 to 164.70): VV011007.D (-2051) (-)

Ion 129.00 (128.70 to 129.70): VV011007.D (-2051) (-)

Ion 131.00 (130.70 to 131.70): VV011007.D (-2051) (-)

Ion 166.00 (165.70 to 166.70): VV011007.D (-2051) (-)

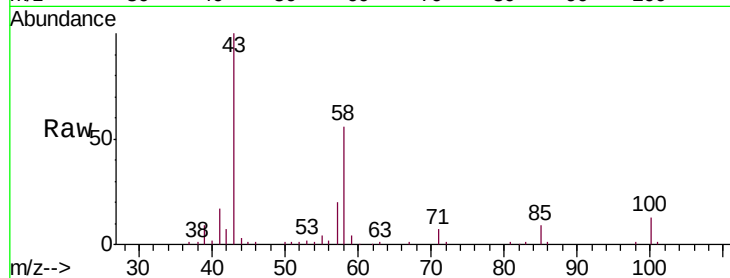




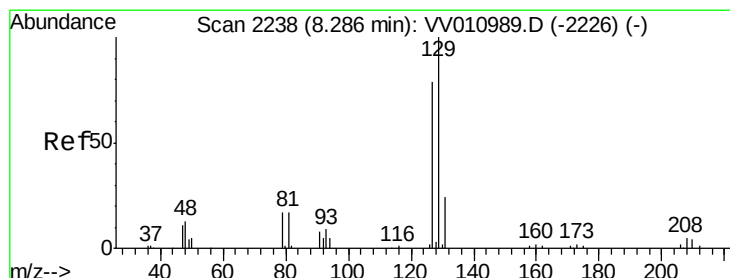
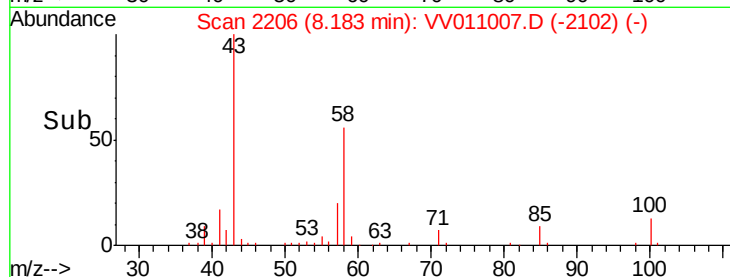
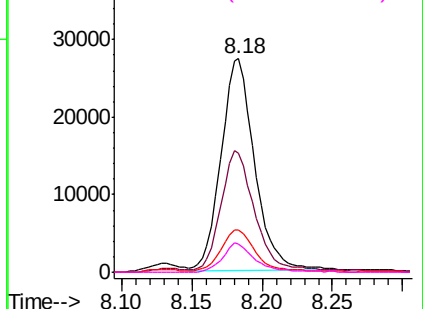
#49
2-Hexanone
Concen: 44.197 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

Tgt Ion:	43	Resp:	45311
Ion	Ratio	Lower	Upper
43	100		
58	57.7	46.0	69.0
57	20.1	14.5	21.7
100	12.8	10.3	15.5

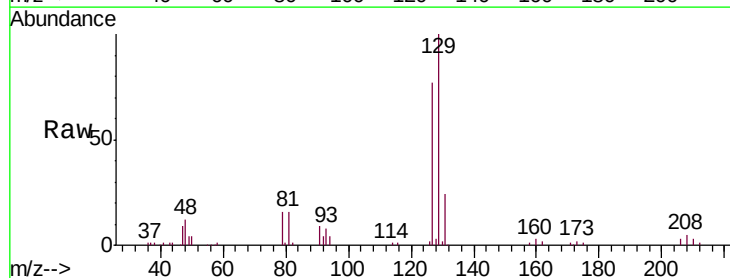


Abundance Ion 43.00 (42.70 to 43.70): VV011007.D (-2102) (-)
Ion 58.00 (57.70 to 58.70): VV011007.D (-2102) (-)
Ion 57.00 (56.70 to 57.70): VV011007.D (-2102) (-)
Ion 100.00 (99.70 to 100.70): VV011007.D (-2102) (-)

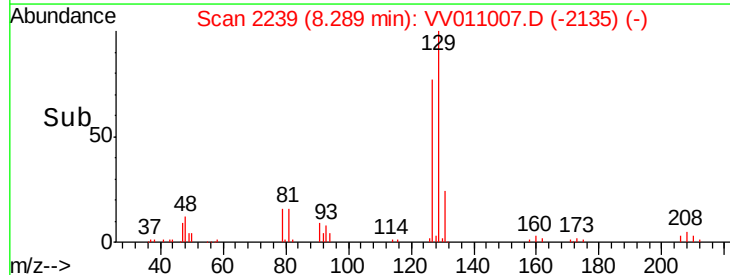
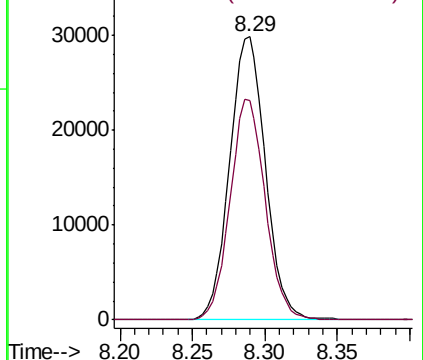


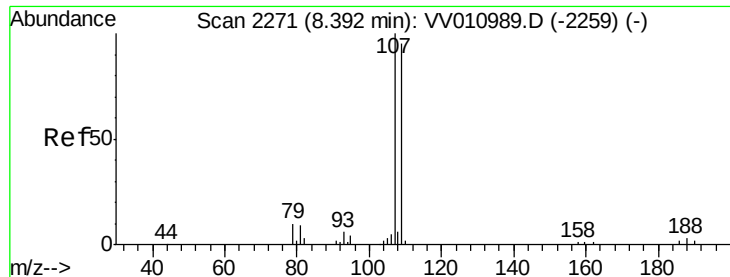
#50
Dibromochloromethane
Concen: 26.129 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011007.D
Acq: 22 May 2019 09:38

Tgt Ion:	129	Resp:	51333
Ion	Ratio	Lower	Upper
129	100		
127	77.4	54.4	101.0



Abundance Ion 129.00 (128.70 to 129.70): VV011007.D (-2135) (-)
Ion 127.00 (126.70 to 127.70): VV011007.D (-2135) (-)





#51

1,2-Dibromoethane

Concen: 25.005 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

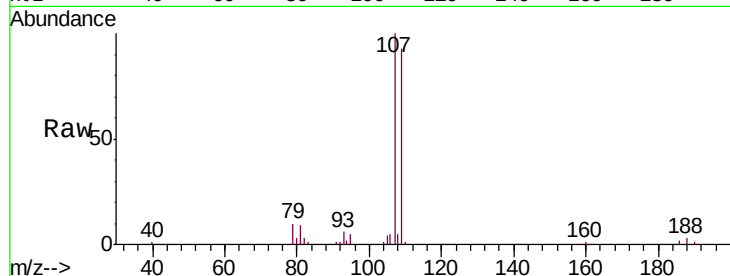
Tgt Ion:107 Resp: 40361

Ion Ratio Lower Upper

107 100

109 93.4 68.0 126.4

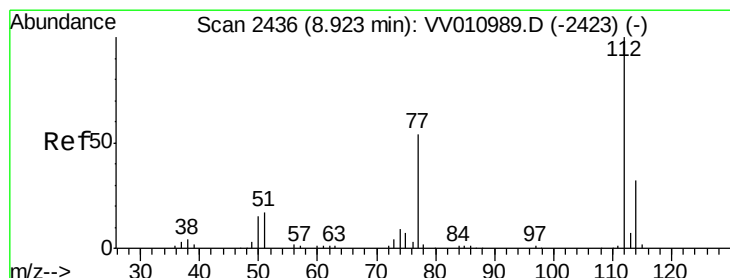
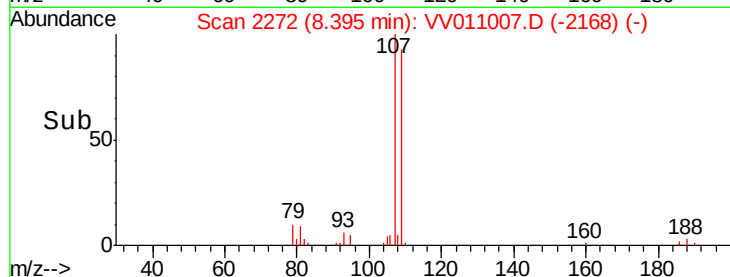
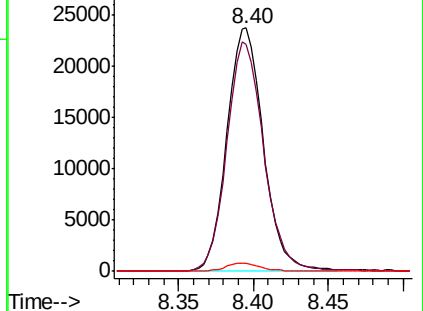
188 3.1 2.3 3.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 26.883 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

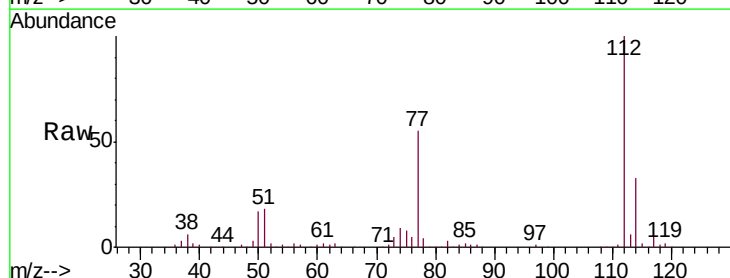
Tgt Ion:112 Resp: 152409

Ion Ratio Lower Upper

112 100

77 55.1 43.0 64.4

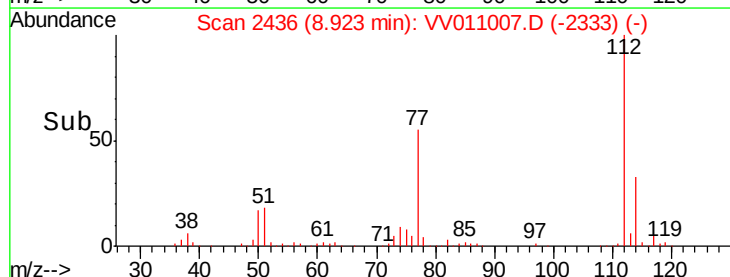
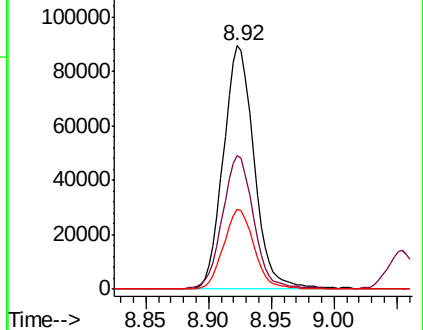
114 32.8 22.0 40.8

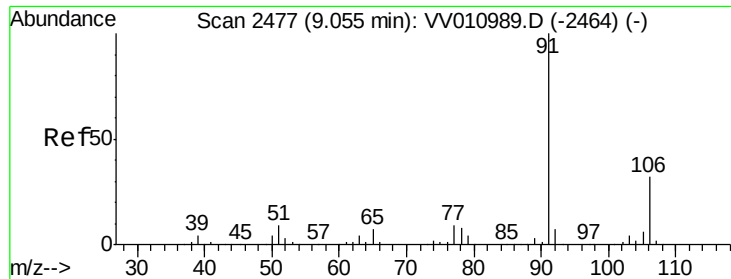


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 28.520 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

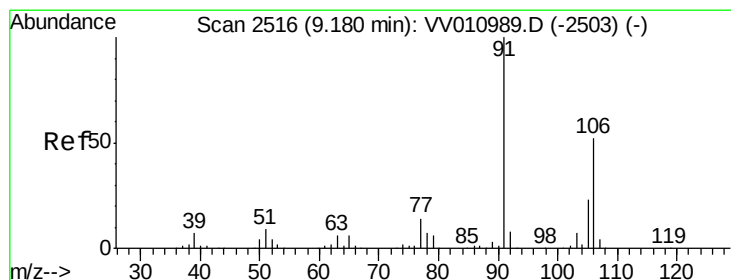
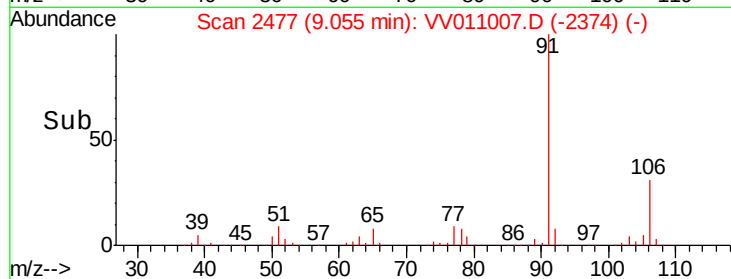
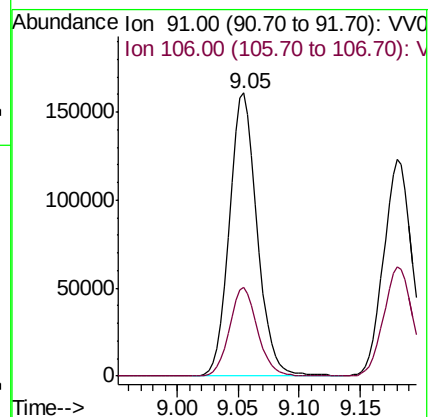
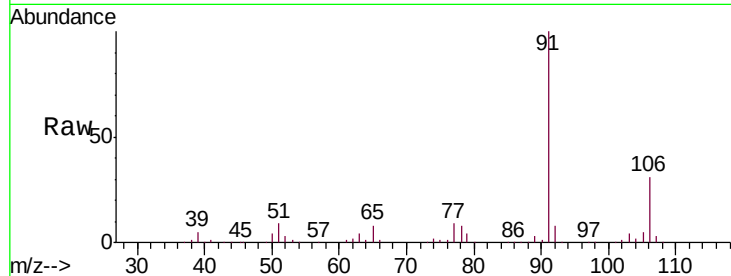
VSTD02599

Tgt Ion: 91 Resp: 257044

Ion Ratio Lower Upper

91 100

106 31.4 22.4 41.6



#54

m,p-Xylene

Concen: 29.014 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV011007.D

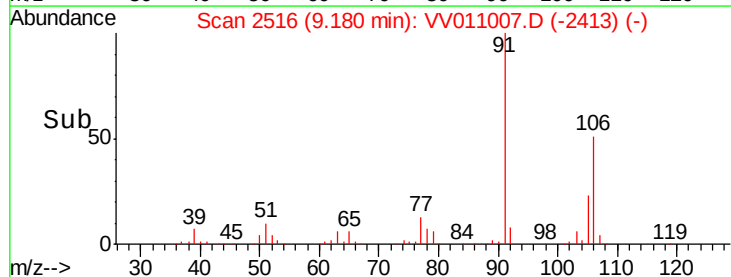
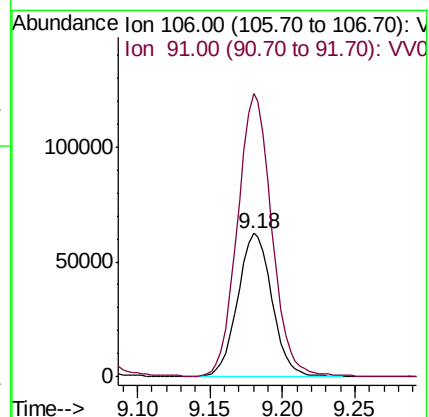
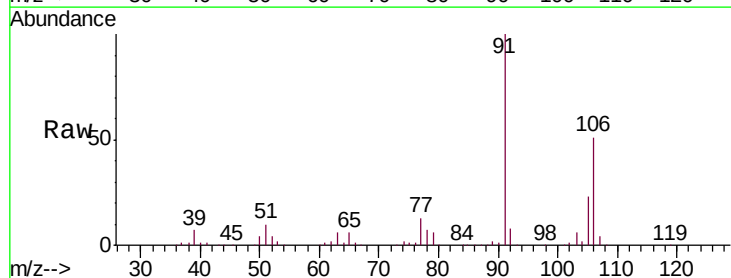
Acq: 22 May 2019 09:38

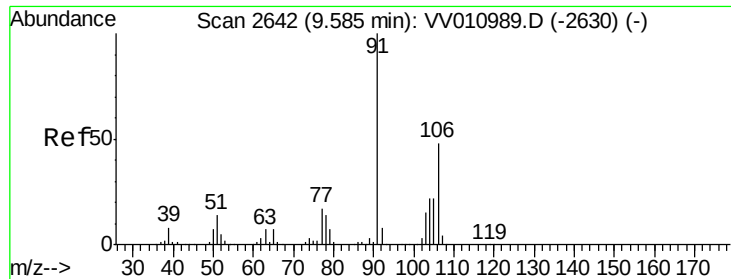
Tgt Ion: 106 Resp: 101915

Ion Ratio Lower Upper

106 100

91 197.0 138.3 256.9





#55

o-xylene

Concen: 29.025 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

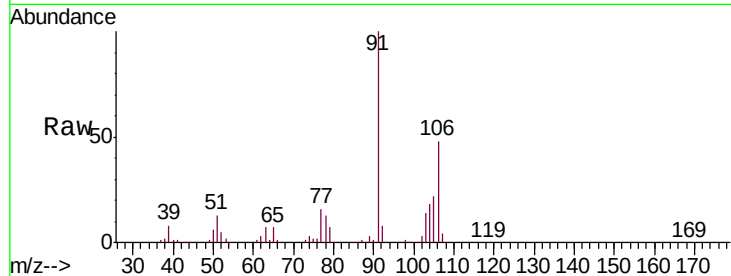
VSTD02599

Tgt Ion:106 Resp: 97272

Ion Ratio Lower Upper

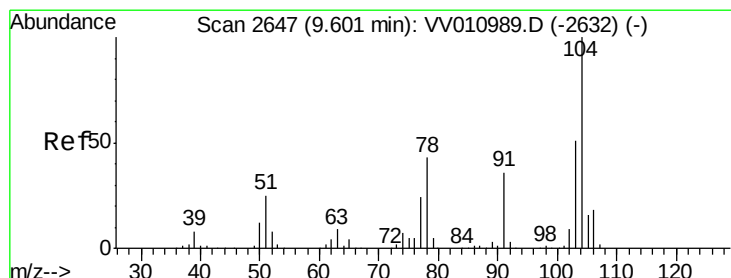
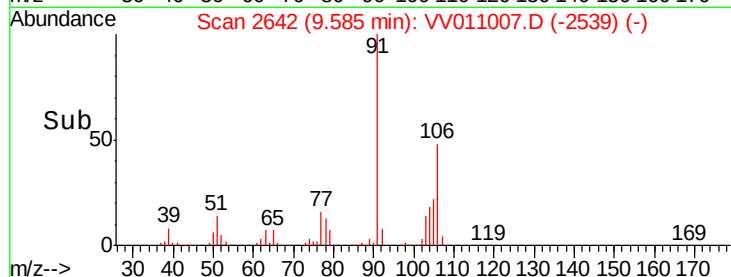
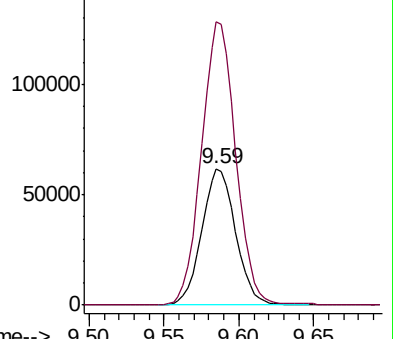
106 100

91 207.7 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 29.400 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV011007.D

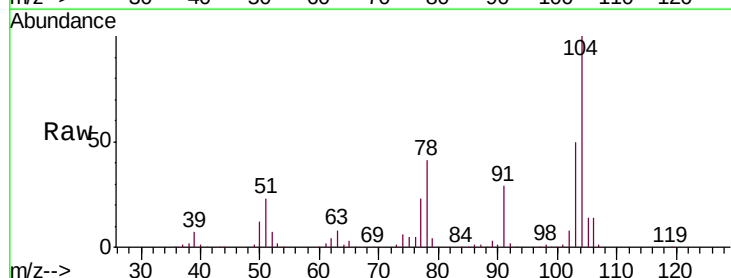
Acq: 22 May 2019 09:38

Tgt Ion:104 Resp: 169808

Ion Ratio Lower Upper

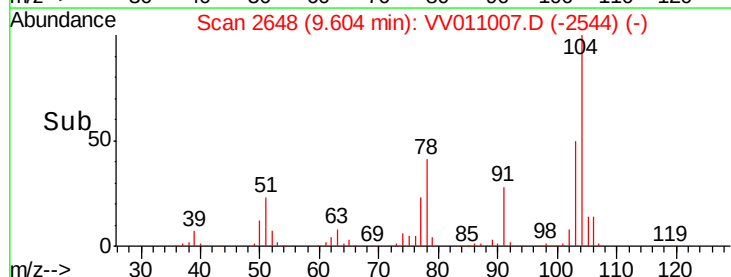
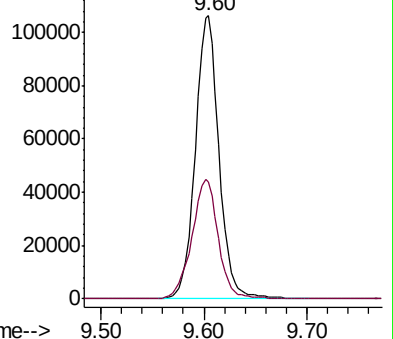
104 100

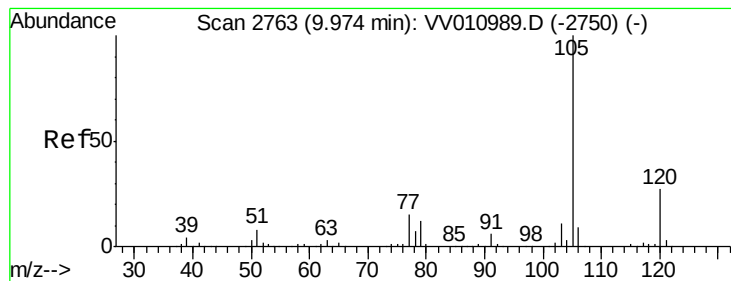
78 41.4 29.2 54.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 29.359 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

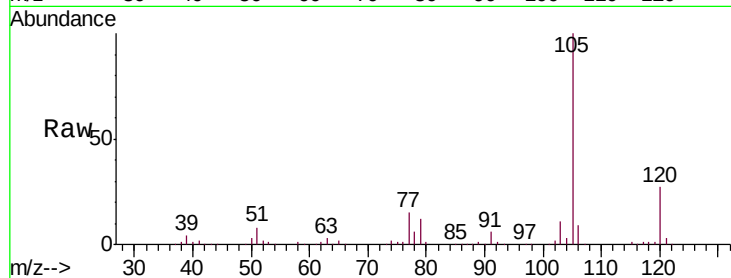
Tgt Ion: 105 Resp: 259556

Ion Ratio Lower Upper

105 100

120 27.3 21.9 32.9

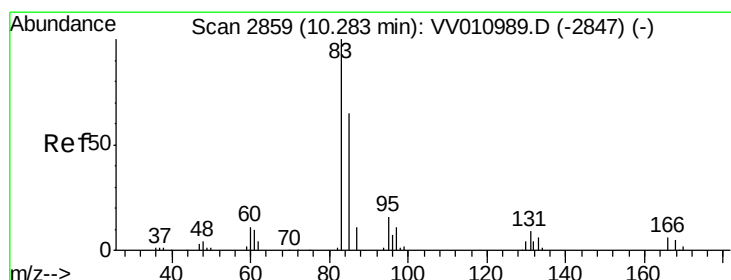
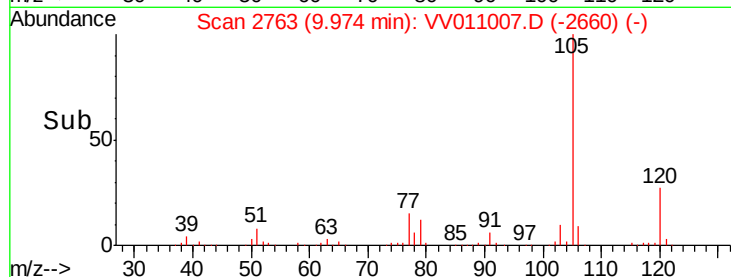
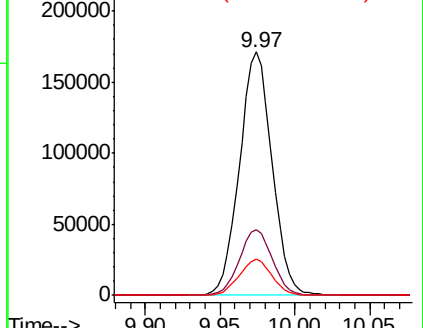
77 15.1 12.2 18.2



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: 24.783 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

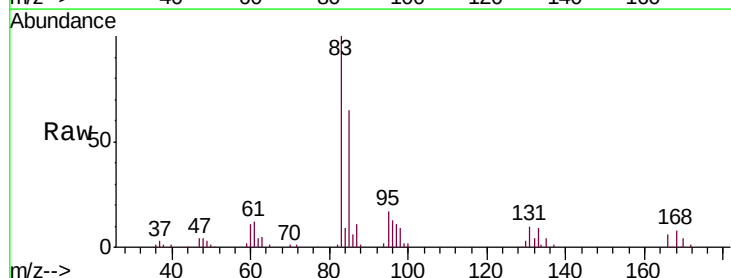
Tgt Ion: 83 Resp: 54467

Ion Ratio Lower Upper

83 100

85 64.7 44.4 82.5

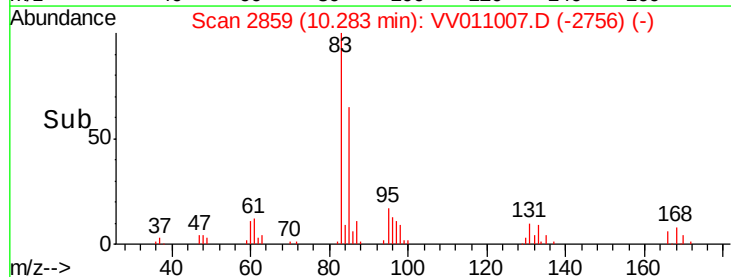
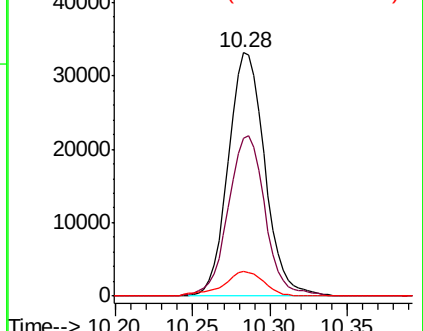
131 10.0 8.2 12.4

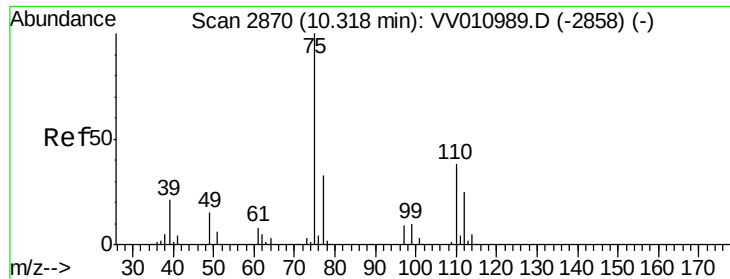


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.648 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

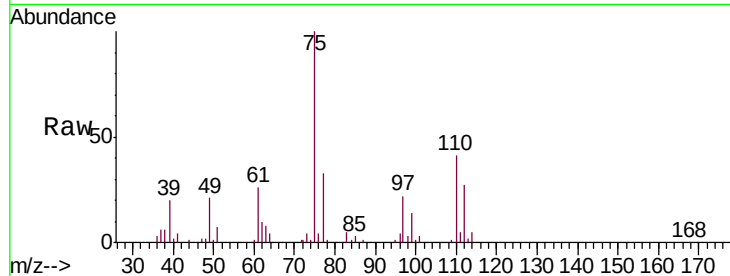
VSTD02599

Tgt Ion: 75 Resp: 38179

Ion Ratio Lower Upper

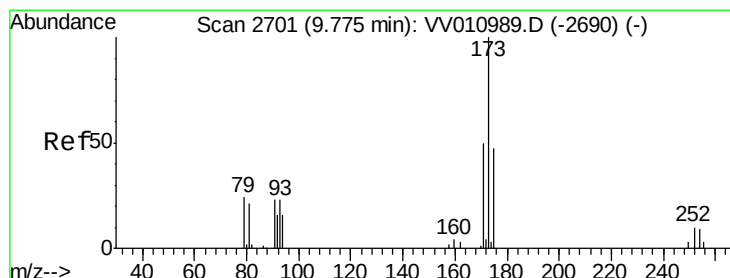
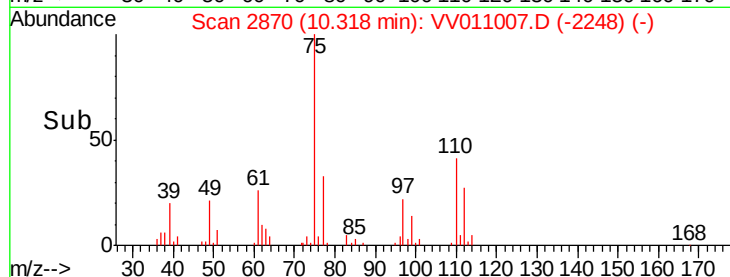
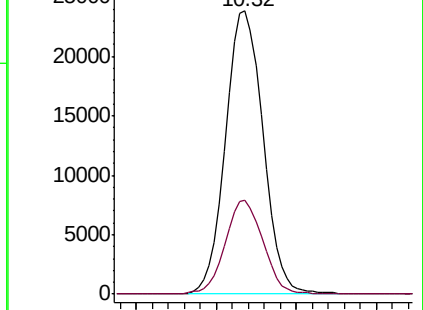
75 100

77 33.3 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VV011007.D (-2248) (-)

Ion 77.00 (76.70 to 77.70): VV011007.D (-2248) (-)



#62

Bromoform

Concen: 24.550 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

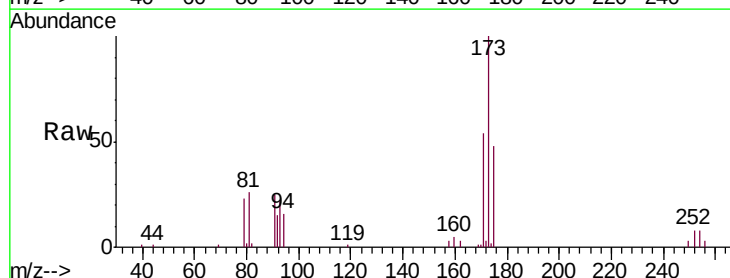
Tgt Ion: 173 Resp: 27730

Ion Ratio Lower Upper

173 100

175 49.2 40.3 60.5

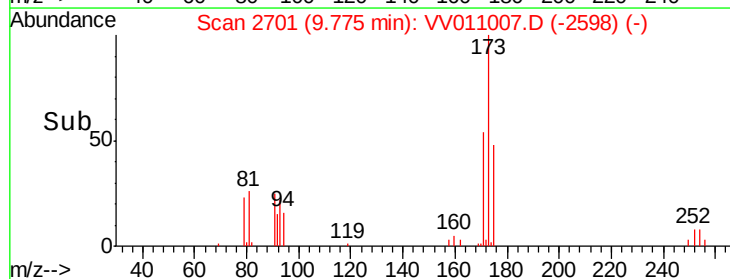
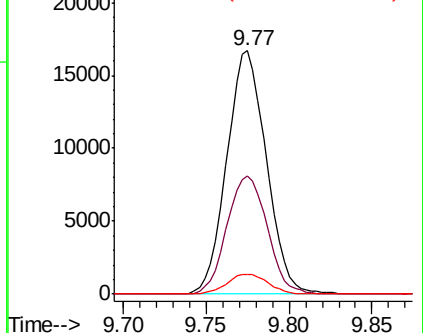
254 8.4 6.1 9.1

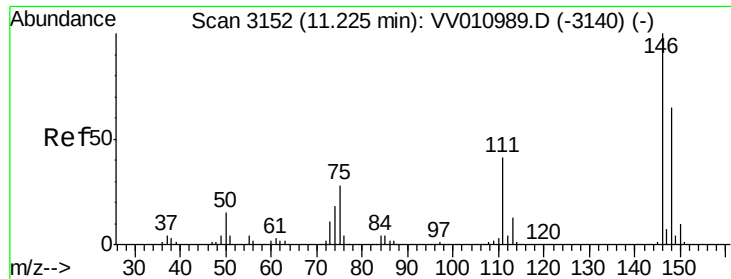


Abundance Ion 173.00 (172.70 to 173.70): VV011007.D (-2598) (-)

Ion 175.00 (174.70 to 175.70): VV011007.D (-2598) (-)

Ion 254.00 (253.70 to 254.70): VV011007.D (-2598) (-)

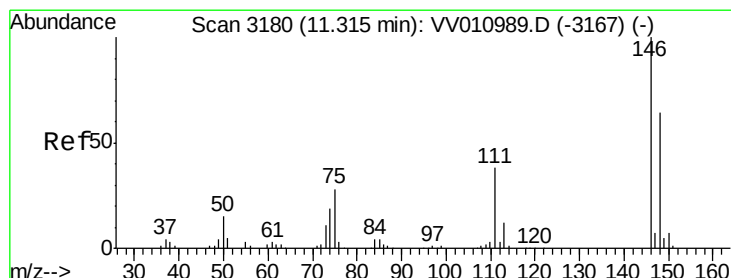
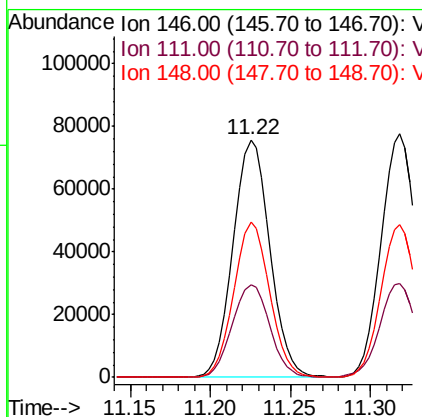
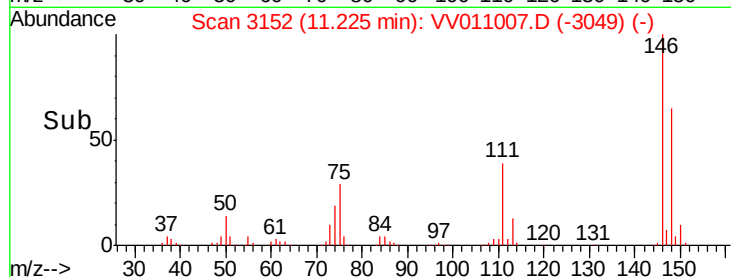
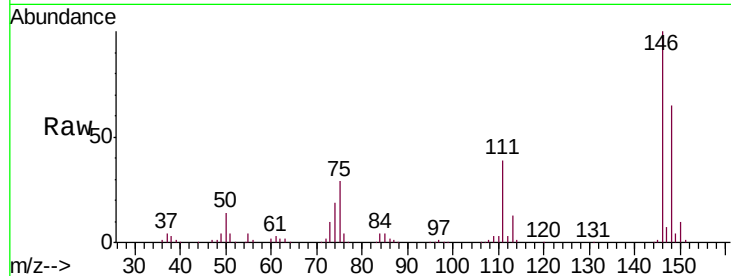




#63
 1,3-Dichlorobenzene
 Concen: 27.334 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

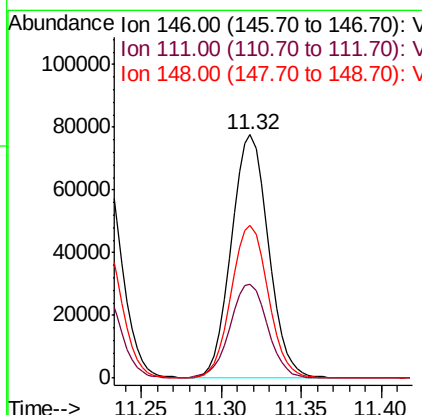
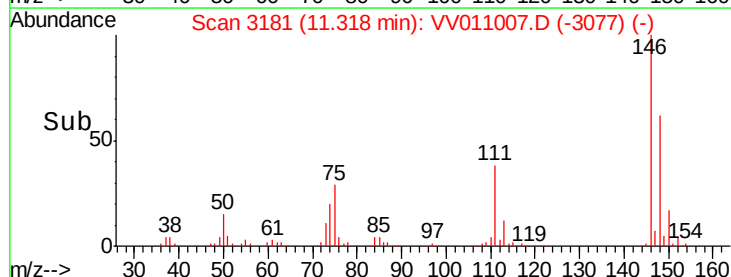
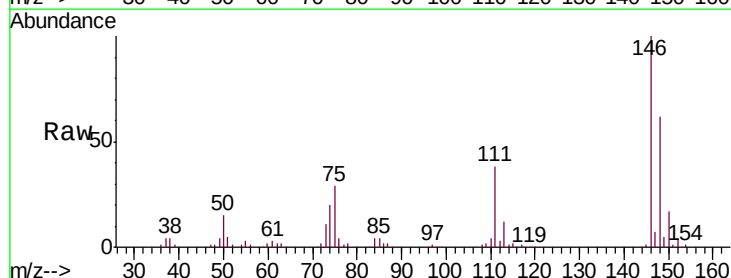
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02599

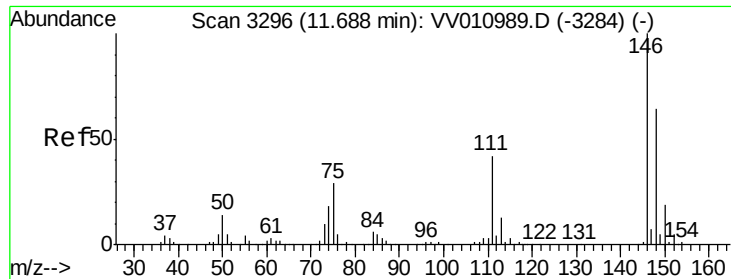
Tgt Ion:146 Resp: 118626
 Ion Ratio Lower Upper
 146 100
 111 39.2 28.4 52.8
 148 65.3 44.8 83.2



#64
 1,4-Dichlorobenzene
 Concen: 27.296 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

Tgt Ion:146 Resp: 122001
 Ion Ratio Lower Upper
 146 100
 111 38.4 26.5 49.1
 148 62.5 45.0 83.6





#65

1,2-Dichlorobenzene

Concen: 27.637 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

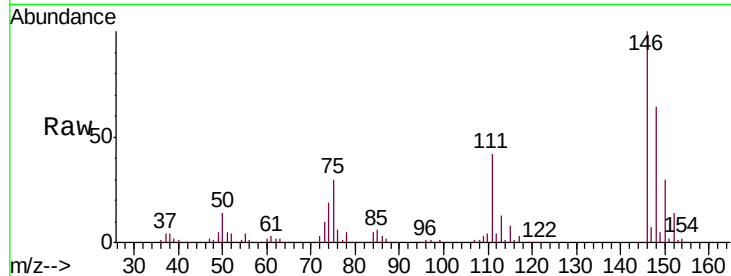
Tgt Ion:146 Resp: 116297

Ion Ratio Lower Upper

146 100

111 42.3 32.8 49.2

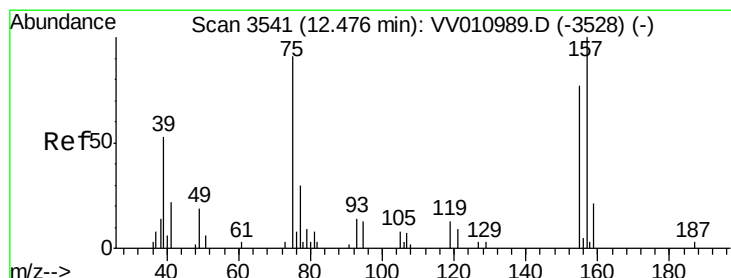
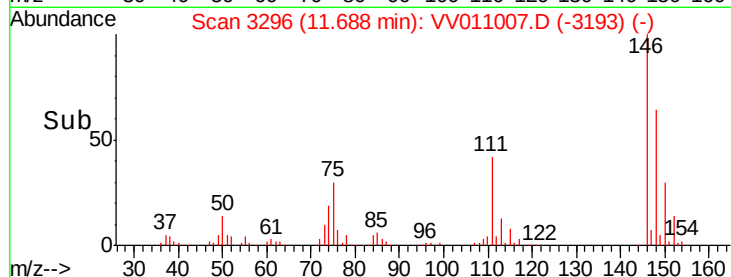
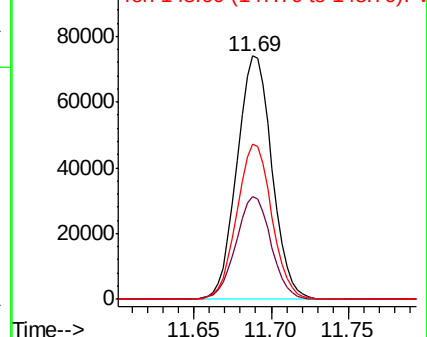
148 63.8 51.9 77.9



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



#66

1,2-Dibromo-3-chloropropane

Concen: 23.926 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

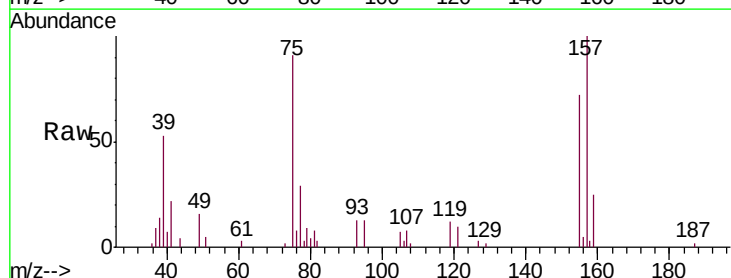
Tgt Ion: 75 Resp: 7998

Ion Ratio Lower Upper

75 100

157 109.9 87.0 130.4

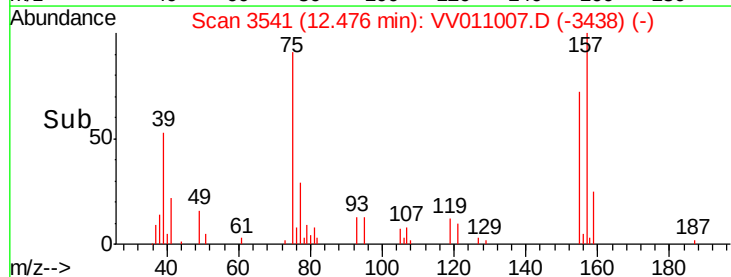
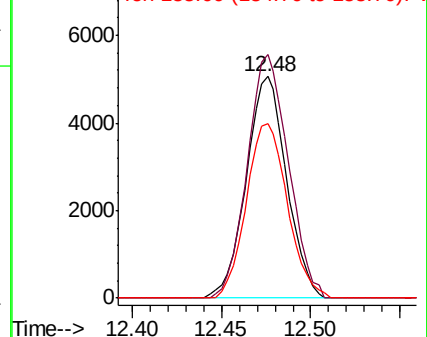
155 78.7 67.8 101.8

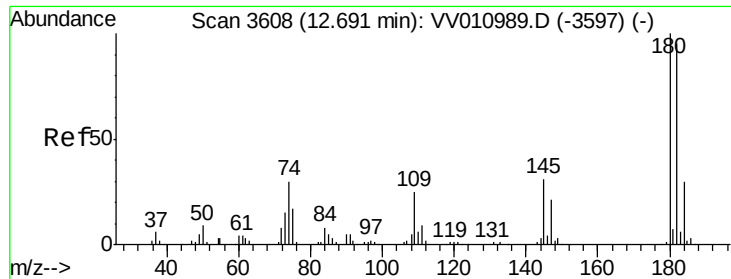


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

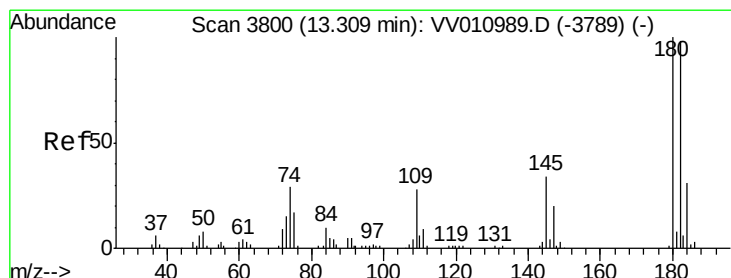
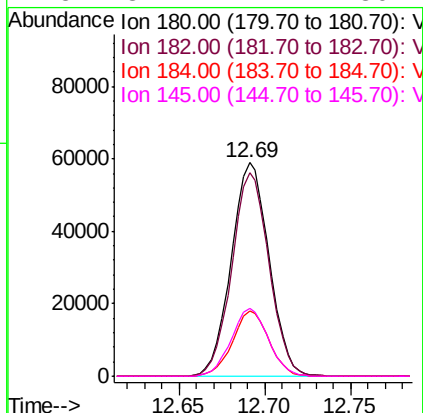
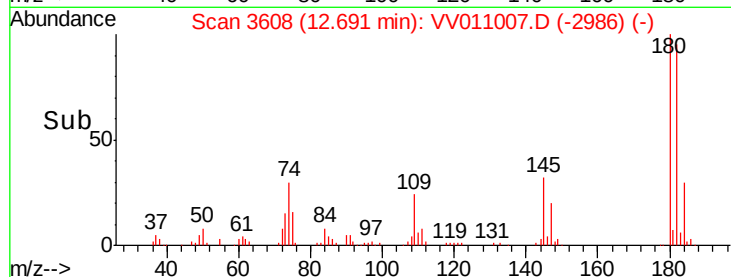
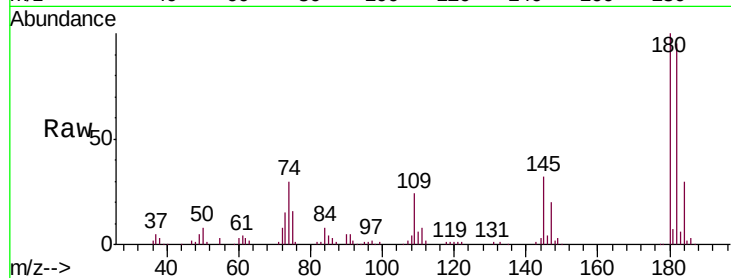




#67
 1,3,5-Trichlorobenzene
 Concen: 28.426 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

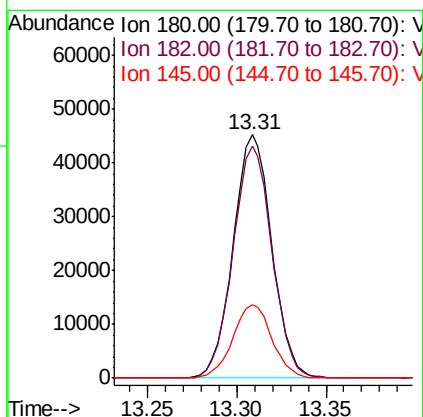
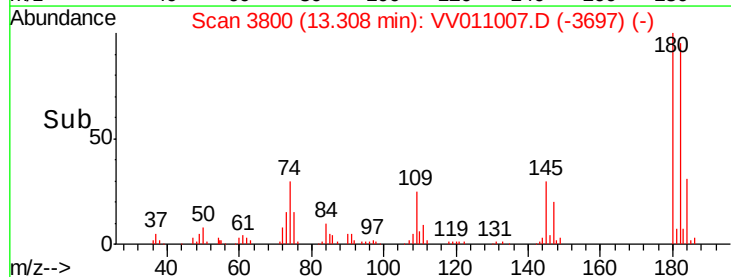
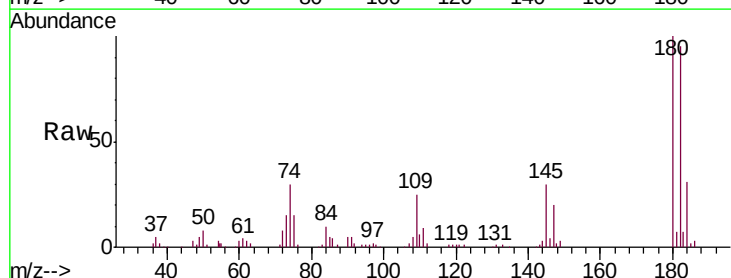
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02599

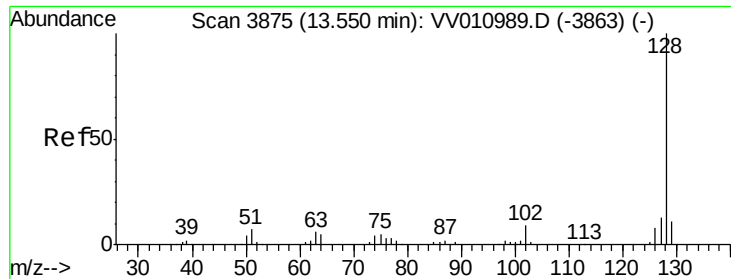
Tgt Ion:180 Resp: 90494
 Ion Ratio Lower Upper
 180 100
 182 93.6 76.2 114.2
 184 29.3 24.6 37.0
 145 31.2 24.1 36.1



#68
 1,2,4-trichlorobenzene
 Concen: 27.269 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV011007.D
 Acq: 22 May 2019 09:38

Tgt Ion:180 Resp: 68613
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.4 113.2
 145 30.6 25.1 37.7





#69

Naphthalene

Concen: 23.909 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

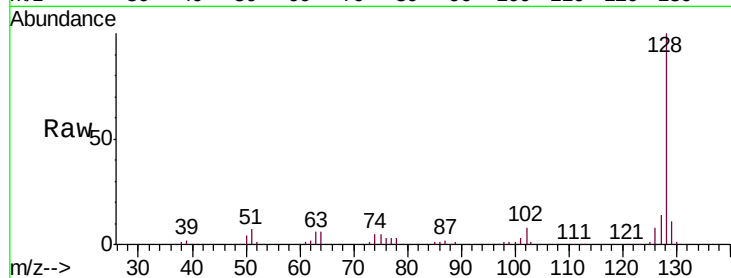
Tgt Ion:128 Resp: 120596

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

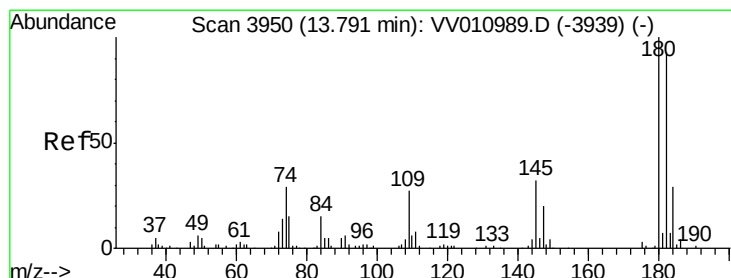
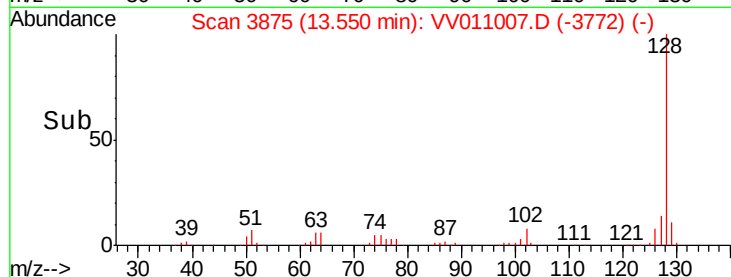
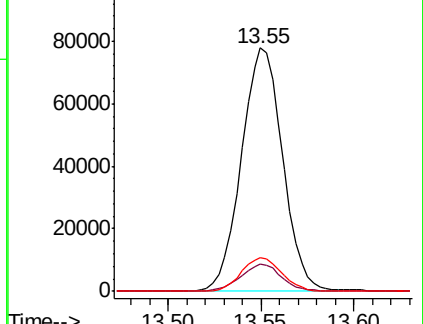
127 13.6 10.3 15.5



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: 26.684 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011007.D

Acq: 22 May 2019 09:38

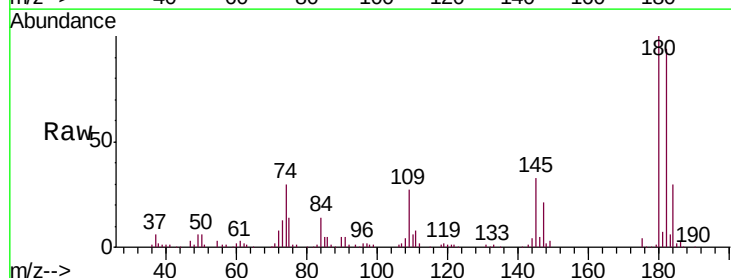
Tgt Ion:180 Resp: 65548

Ion Ratio Lower Upper

180 100

182 96.4 75.7 113.5

145 33.5 26.9 40.3



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

