

Data File : VV010407.D
Acq On : 20 Apr 2019 02:21
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

Quant Time: Apr 20 04:39:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041819S.M
Quant Title : VOC Analysis
QLast Update : Sat Apr 20 04:30:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	410436	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	400147	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	200496	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	134427	25.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.16%
7) Chloroethane-d5	1.56	69	111780	25.53	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.12%
10) 1,1-Dichloroethene-d2	2.12	63	266924	21.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.92%
20) 2-Butanone-d5	3.93	46	93173	57.41	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.82%
24) Chloroform-d	4.39	84	284425	26.36	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.44%
26) 1,2-Dichloroethane-d4	5.08	65	178568	28.03	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	112.12%
29) Benzene-d6	5.09	84	516443	25.21	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.84%
33) 1,2-Dichloropropane-d6	6.11	67	154327	25.75	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	103.00%
37) Toluene-d8	7.36	98	504316	25.61	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.44%
38) trans-1,3-Dichloropropene-	7.66	79	73422	24.90	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.60%
39) 2-Hexanone-d5	8.13	63	68809	51.55	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.10%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	155445	25.93	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	103.72%
61) 1,2-Dichlorobenzene-d4	11.67	152	202726	25.72	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.88%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.13	85	141393	22.711	ug/L	98
3) Chloromethane	1.24	50	121428	22.443	ug/L	99
5) Vinyl chloride	1.32	62	145687	25.776	ug/L	99
6) Bromomethane	1.51	94	59845	16.553	ug/L	97
8) Chloroethane	1.58	64	90007	24.986	ug/L	96
9) Trichlorofluoromethane	1.75	101	254690	21.941	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	141132	23.080	ug/L	94
12) 1,1-Dichloroethene	2.13	96	133571	25.051	ug/L	86
13) Acetone	2.18	43	66587	38.874	ug/L	97
14) Carbon disulfide	2.31	76	265822	20.212	ug/L	99
15) Methyl Acetate	2.45	43	67979	24.314	ug/L	91
16) Methylene chloride	2.53	84	160035	24.411	ug/L	98
17) Methyl tert-butyl Ether	2.80	73	355411	27.680	ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	113767	22.493	ug/L	97
19) 1,1-Dichloroethane	3.22	63	219675	25.426	ug/L	99
21) 2-Butanone	4.01	43	88270	47.538	ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	137389	23.845	ug/L	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	68147	23.631	ug/L	97
25) Chloroform	4.42	83	265177	26.337	ug/L	98
27) 1,2-Dichloroethane	5.17	62	194774	27.076	ug/L	97
30) Cyclohexane	4.72	56	164131	22.381	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	221128	25.066	ug/L	98
32) Carbon tetrachloride	4.87	117	202335	24.309	ug/L	98
34) Benzene	5.14	78	462540	23.688	ug/L	100
35) Trichloroethene	5.96	95	139609	24.166	ug/L	98
36) Methylcyclohexane	6.17	83	178203	21.184	ug/L	94
40) 1,2-Dichloropropane	6.22	63	125573	25.074	ug/L	99
41) Bromodichloromethane	6.55	83	185805	26.438	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	193837	25.662	ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	207816	53.111	ug/L	98
44) Toluene	7.43	91	533932	24.255	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	180988	25.700	ug/L	96
46) 1,1,2-Trichloroethane	7.88	97	113257	25.102	ug/L	99
47) Tetrachloroethene	8.02	164	111379	21.607	ug/L	98
49) 2-Hexanone	8.18	43	129868	47.417	ug/L	98
50) Dibromochloromethane	8.29	129	145987	26.353	ug/L	99
51) 1,2-Dibromoethane	8.40	107	117311	26.218	ug/L #	98
52) Chlorobenzene	8.92	112	376347	24.571	ug/L	98
53) Ethylbenzene	9.05	91	606752	24.261	ug/L	97
54) m,p-Xylene	9.18	106	233455	24.114	ug/L	100
55) o-xylene	9.59	106	231094	24.751	ug/L	96
56) Styrene	9.60	104	389463	24.428	ug/L	92
57) Isopropylbenzene	9.97	105	606680	24.385	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	140966	24.162	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	109713	25.969	ug/L	99
62) Bromoform	9.77	173	84968	27.413	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	299989	24.534	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	300028	23.798	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	291910	24.726	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	23400	24.801	ug/L	91
67) 1,3,5-Trichlorobenzene	12.69	180	216639	21.302	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	175410	21.582	ug/L	98
69) Naphthalene	13.55	128	353302	23.539	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	173417	21.958	ug/L	98

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

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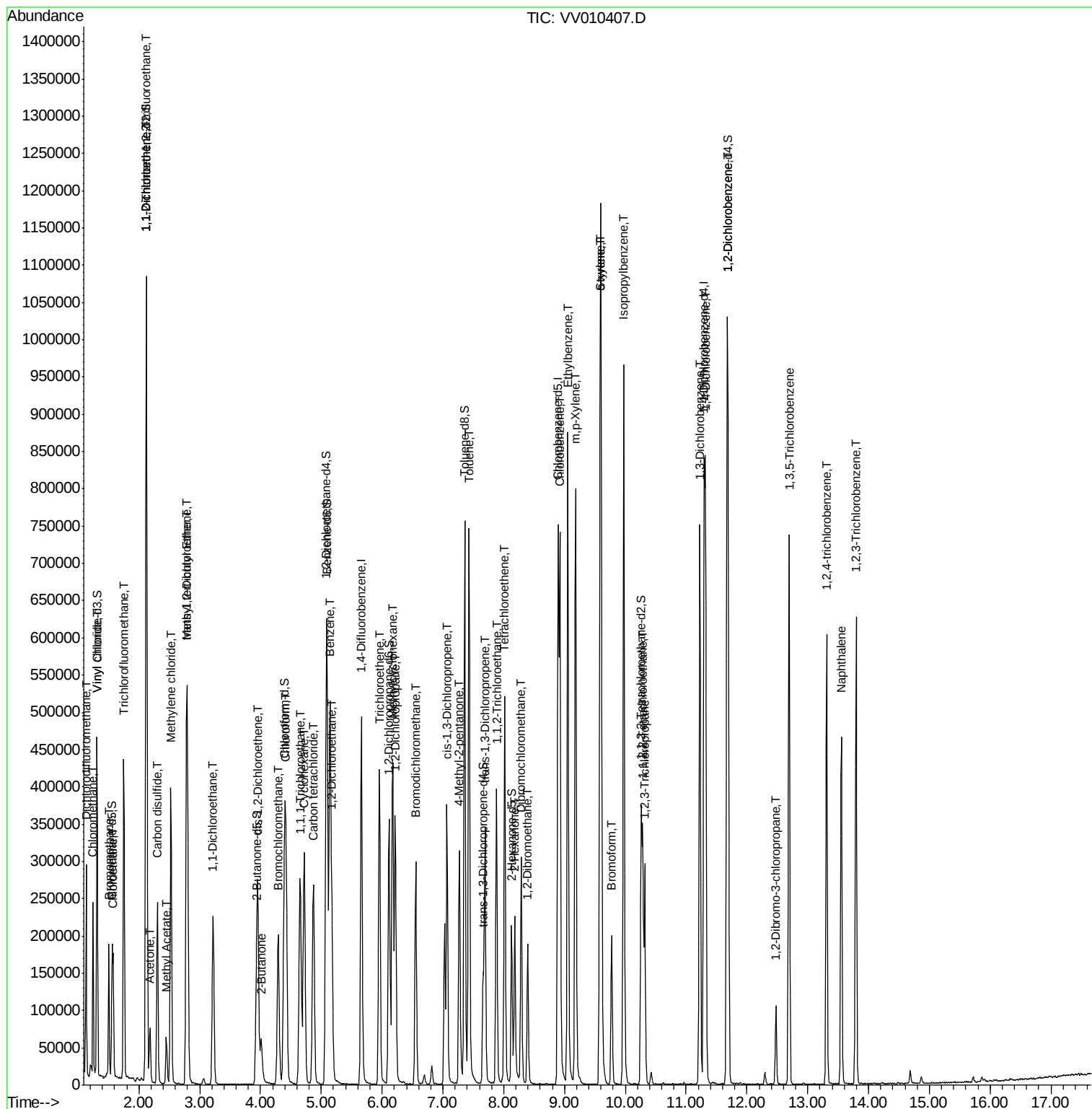
Quant Time: Apr 20 04:39:50 2019

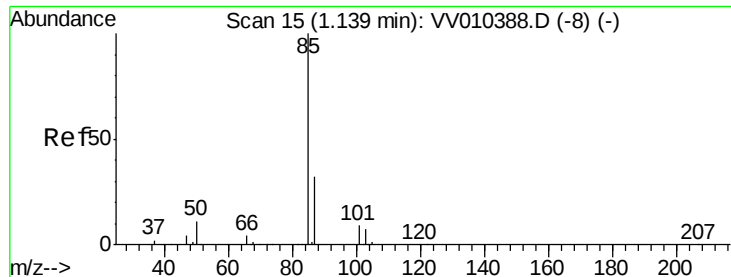
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM041819S.M

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#2

Dichlorodifluoromethane

Concen: 22.711 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.01 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

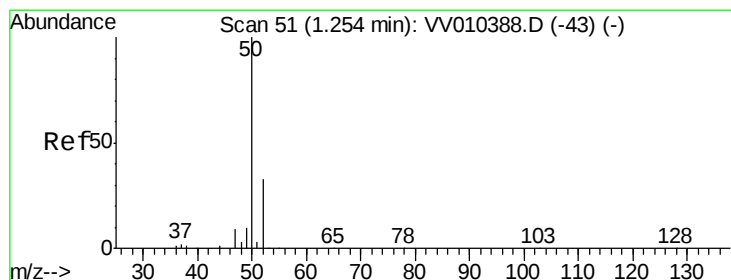
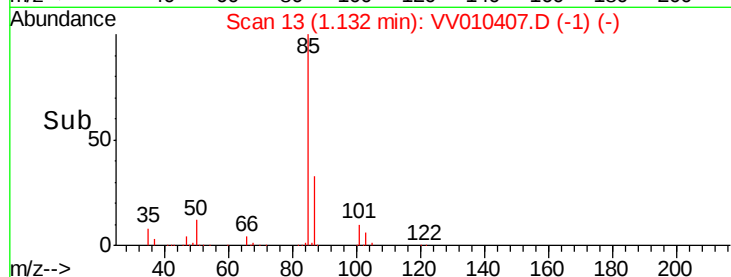
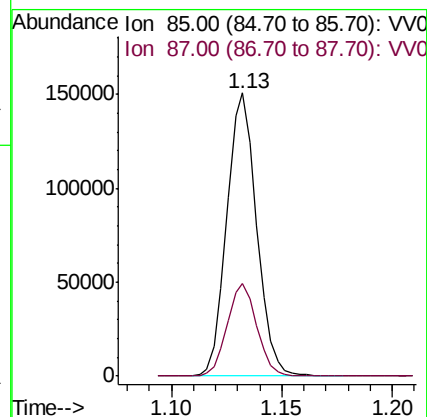
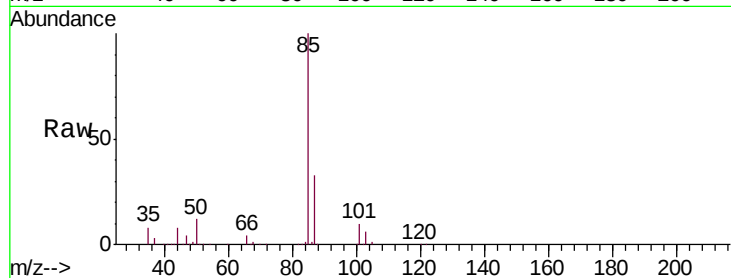
VSTD02576

Tgt Ion: 85 Resp: 141393

Ion Ratio Lower Upper

85 100

87 32.4 23.4 43.4



#3

Chloromethane

Concen: 22.443 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.01 min

Lab File: VV010407.D

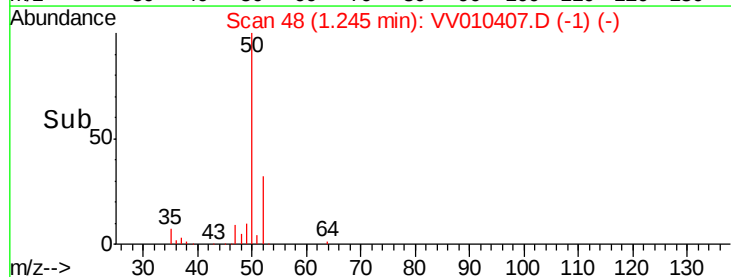
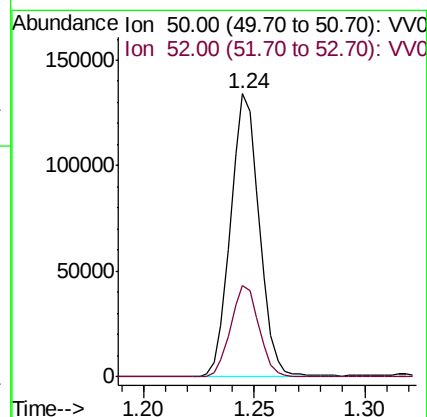
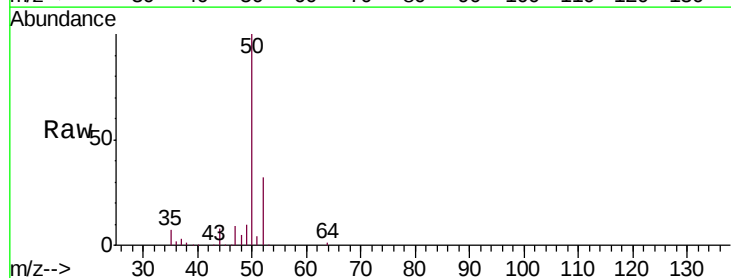
Acq: 20 Apr 2019 02:21

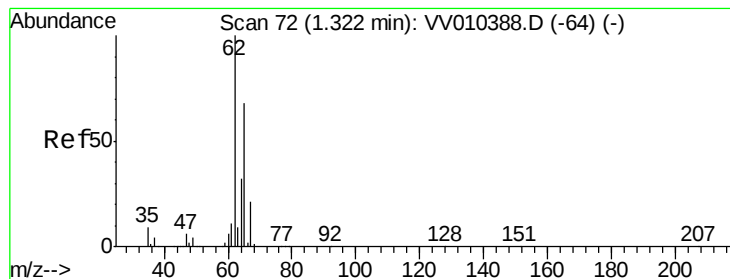
Tgt Ion: 50 Resp: 121428

Ion Ratio Lower Upper

50 100

52 32.5 23.2 43.2





#5

Vinyl chloride

Concen: 25.776 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

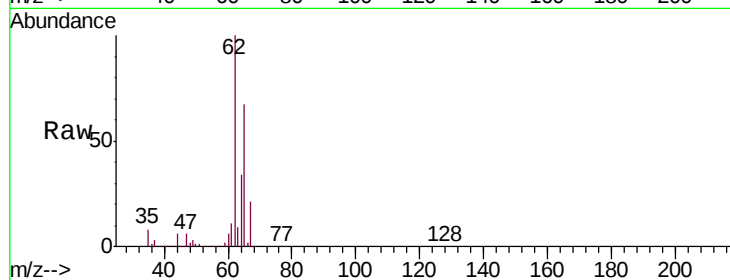
VSTD02576

Tgt Ion: 62 Resp: 145687

Ion Ratio Lower Upper

62 100

64 33.5 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

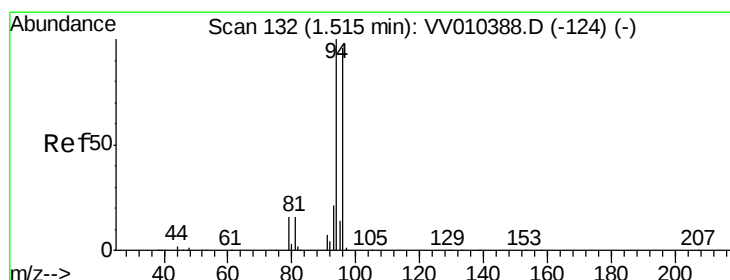
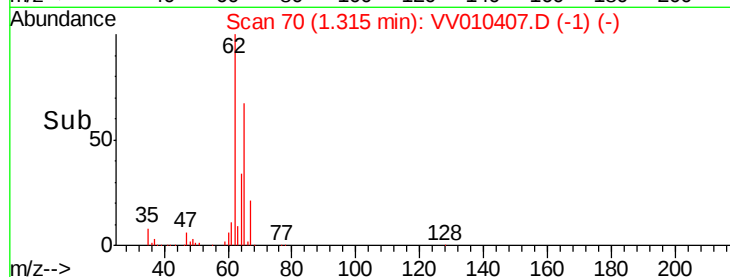
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 16.553 ug/L

RT: 1.51 min Scan# 130

Delta R.T. -0.01 min

Lab File: VV010407.D

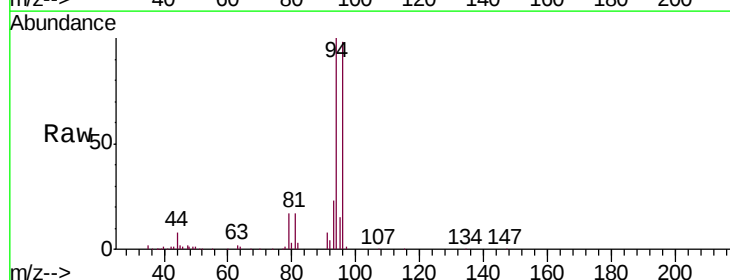
Acq: 20 Apr 2019 02:21

Tgt Ion: 94 Resp: 59845

Ion Ratio Lower Upper

94 100

96 96.2 9.3 177.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.51

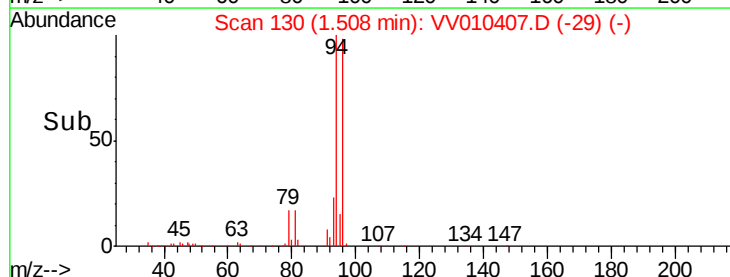
60000

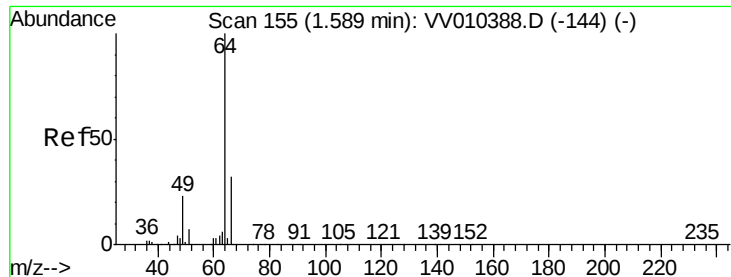
40000

20000

0

Time-->





#8

Chloroethane

Concen: 24.986 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.01 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

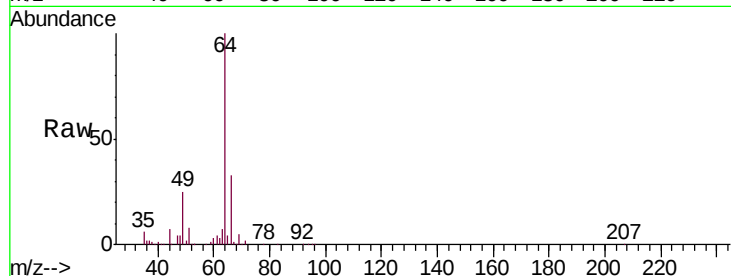
VSTD02576

Tgt Ion: 64 Resp: 90007

Ion Ratio Lower Upper

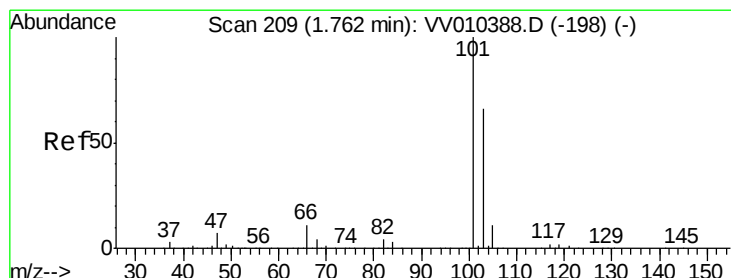
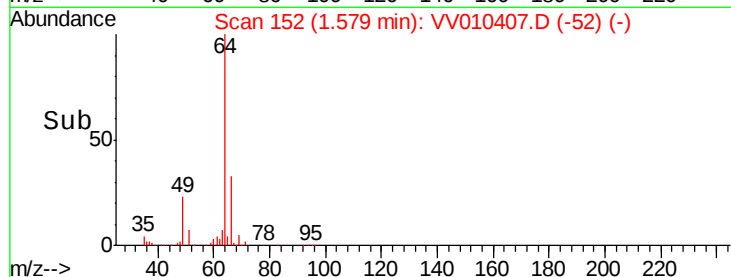
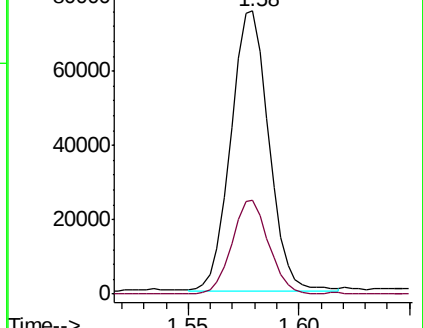
64 100

66 33.0 21.4 39.8



Abundance Ion 64.00 (63.70 to 64.70): VV010388.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV010388.D (-144) (-)



#9

Trichlorofluoromethane

Concen: 21.941 ug/L

RT: 1.75 min Scan# 206

Delta R.T. -0.01 min

Lab File: VV010407.D

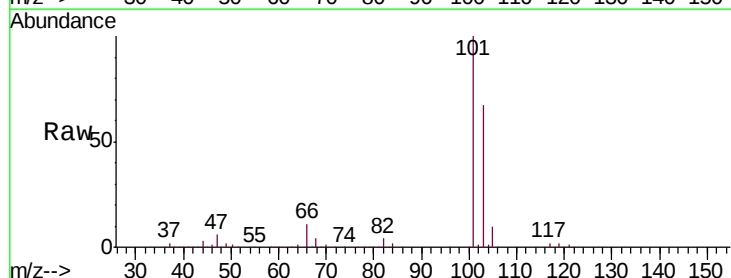
Acq: 20 Apr 2019 02:21

Tgt Ion: 101 Resp: 254690

Ion Ratio Lower Upper

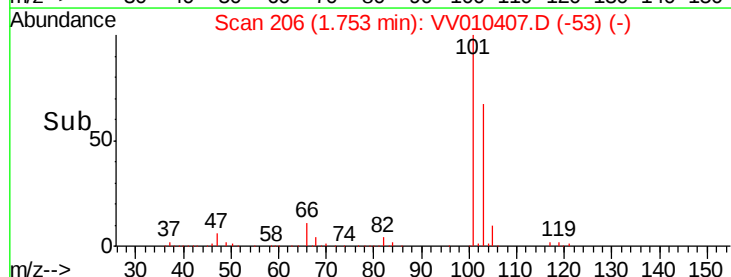
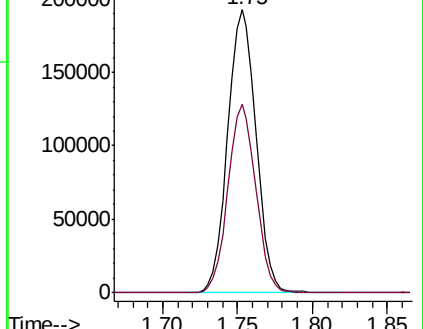
101 100

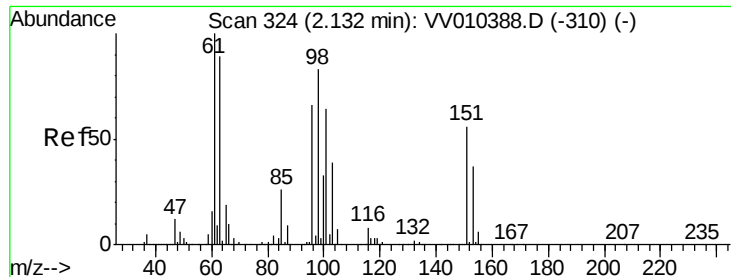
103 65.5 45.5 84.5



Abundance Ion 101.00 (100.70 to 101.70): VV010388.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV010388.D (-198) (-)





#11

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

Concen: 23.080 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

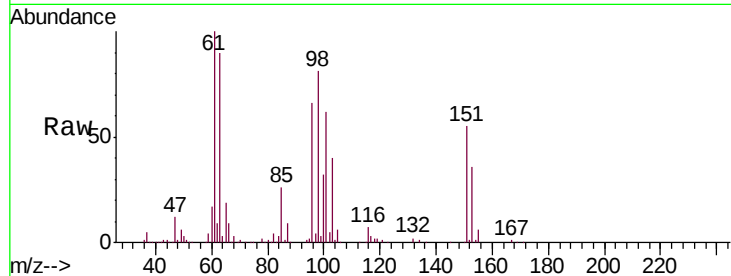
Tgt Ion: 101 Resp: 141132

Ion Ratio Lower Upper

101 100

85 42.0 37.3 55.9

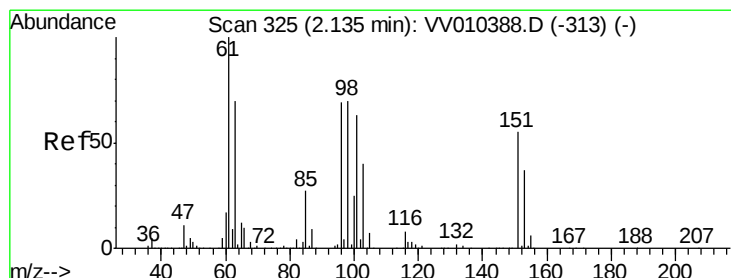
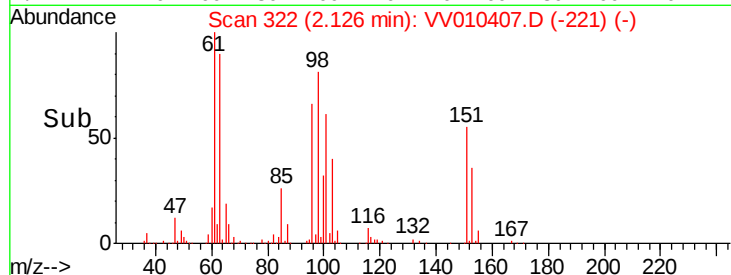
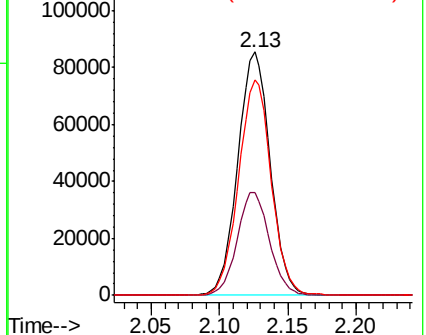
151 89.1 67.8 101.6



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: 25.051 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

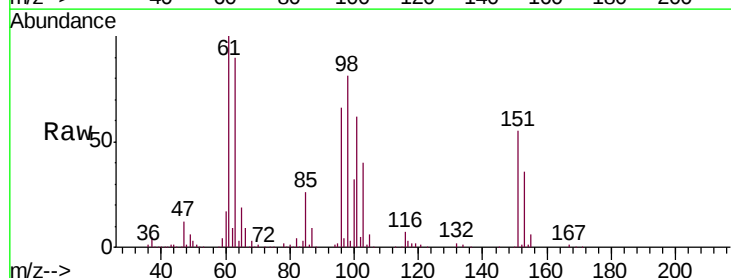
Tgt Ion: 96 Resp: 133571

Ion Ratio Lower Upper

96 100

61 151.8 124.7 231.5

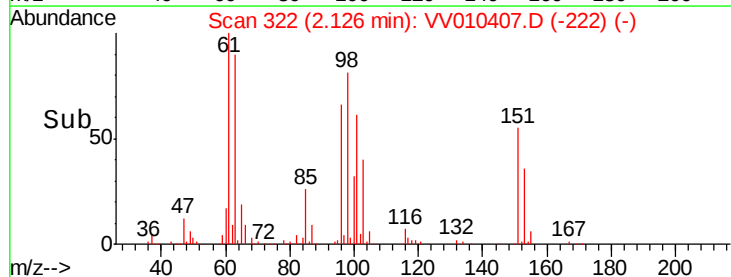
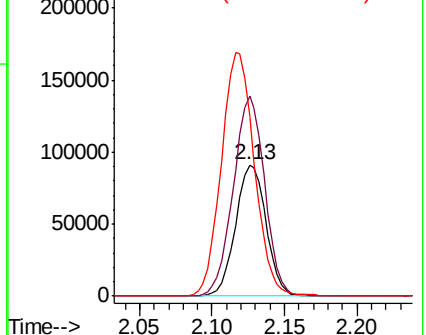
63 136.4 88.7 164.7

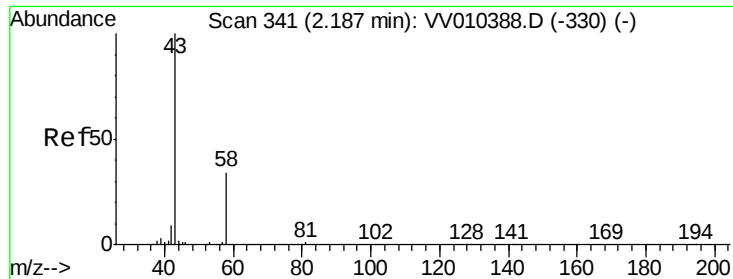


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 38.874 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

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ClientSampleId :

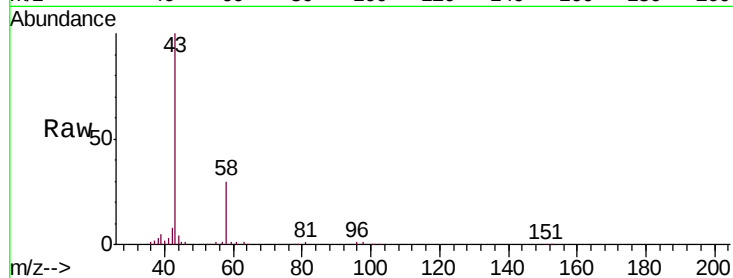
VSTD02576

Tgt Ion: 43 Resp: 66587

Ion Ratio Lower Upper

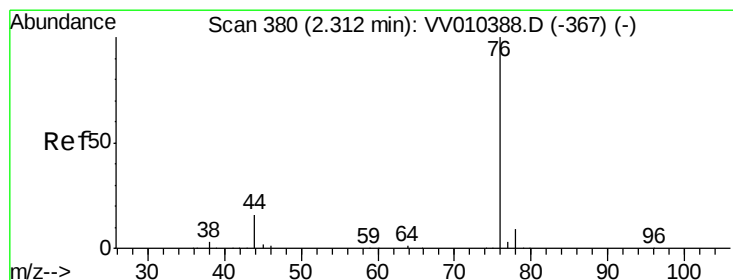
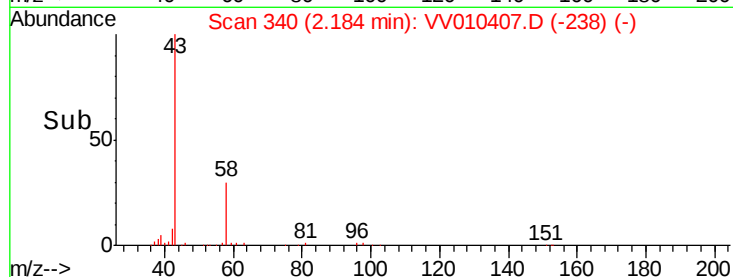
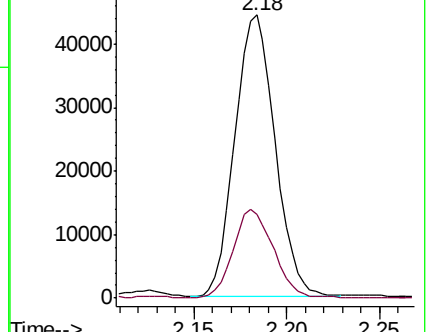
43 100

58 31.6 0.0 60.0



Abundance Ion 43.00 (42.70 to 43.70): VV010388.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV010388.D (-330) (-)



#14

Carbon disulfide

Concen: 20.212 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV010407.D

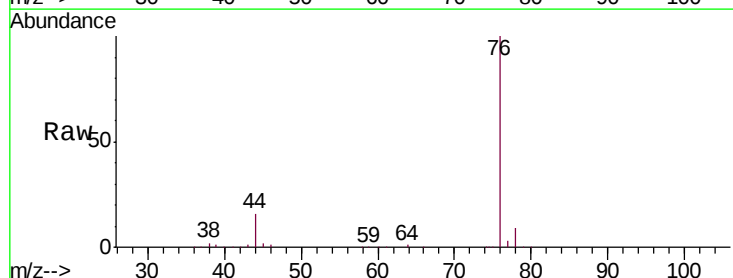
Acq: 20 Apr 2019 02:21

Tgt Ion: 76 Resp: 265822

Ion Ratio Lower Upper

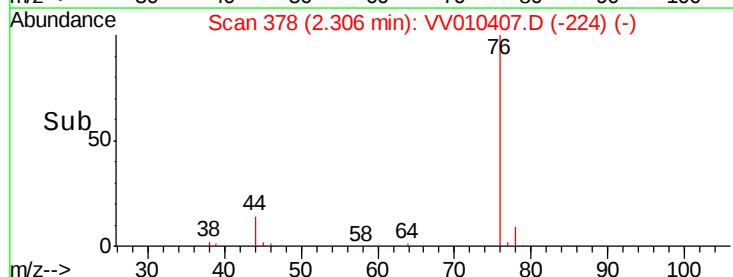
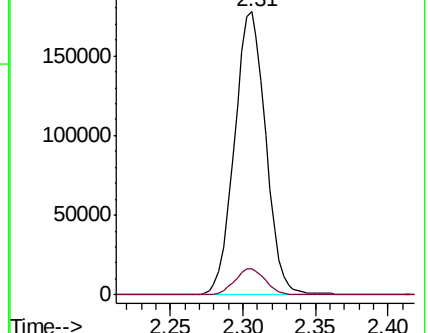
76 100

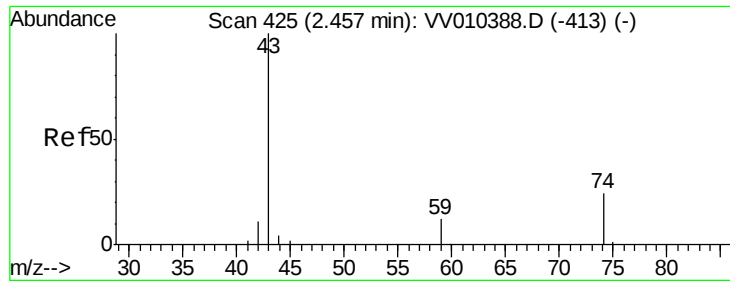
78 9.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV010388.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV010388.D (-367) (-)





#15

Methyl Acetate

Concen: 24.314 ug/L

RT: 2.45 min Scan# 423

Delta R.T. -0.01 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

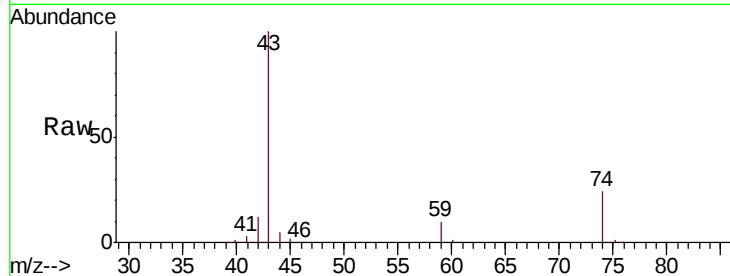
VSTD02576

Tgt Ion: 43 Resp: 67979

Ion Ratio Lower Upper

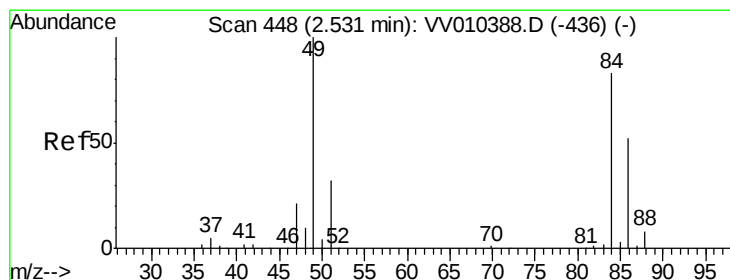
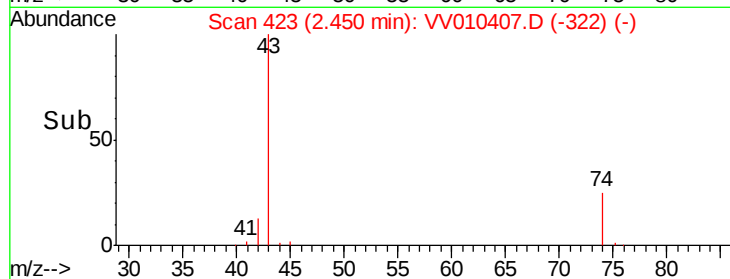
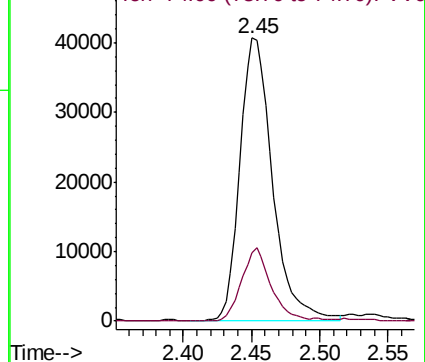
43 100

74 23.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 24.411 ug/L

RT: 2.53 min Scan# 447

Delta R.T. -0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

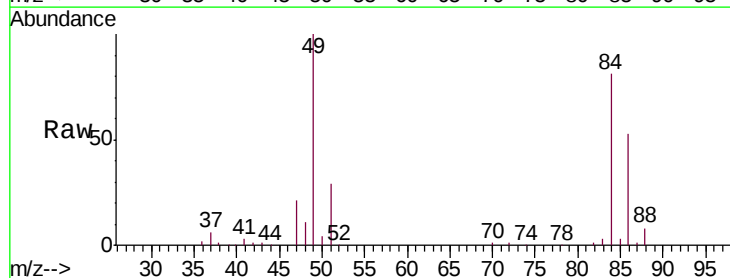
Tgt Ion: 84 Resp: 160035

Ion Ratio Lower Upper

84 100

49 123.4 83.8 155.6

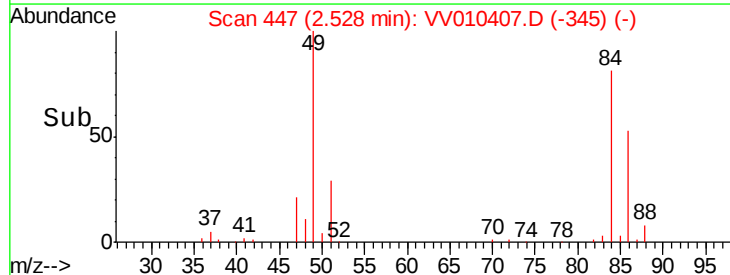
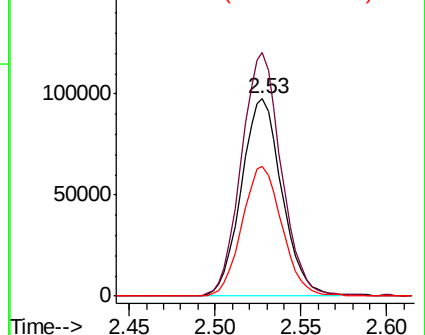
86 65.8 46.1 85.5

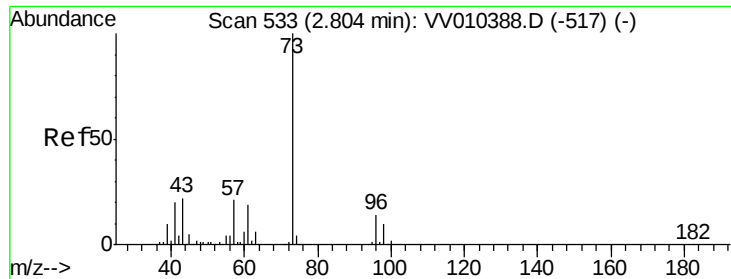


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

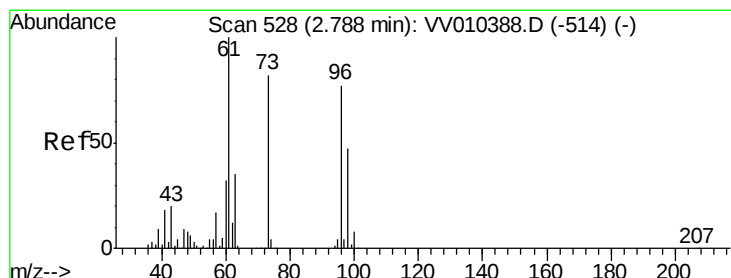
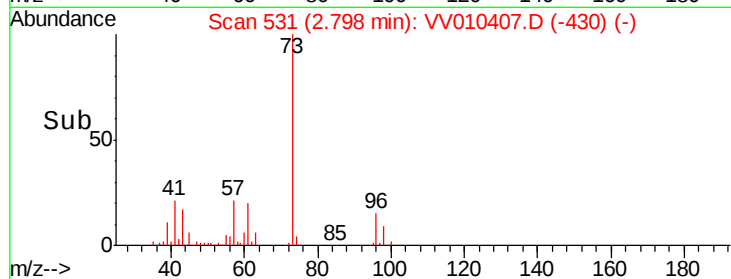
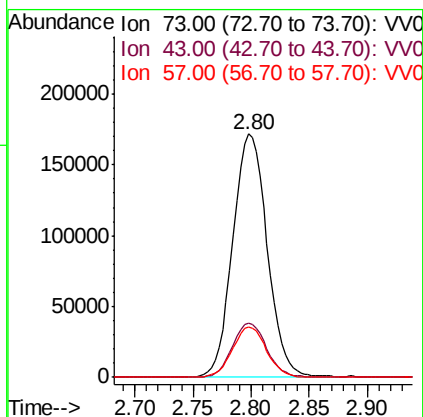
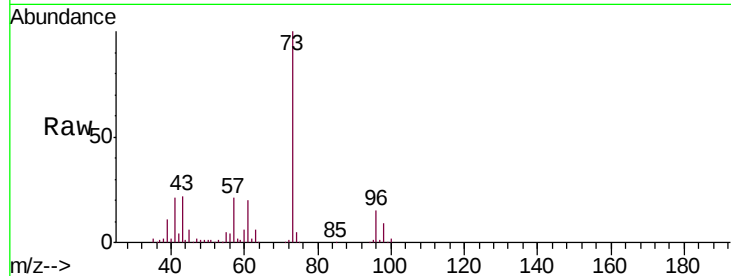




#17
Methyl tert-butyl Ether
Concen: 27.680 ug/L
RT: 2.80 min Scan# 531
Delta R.T. -0.01 min
Lab File: VV010407.D
Acq: 20 Apr 2019 02:21

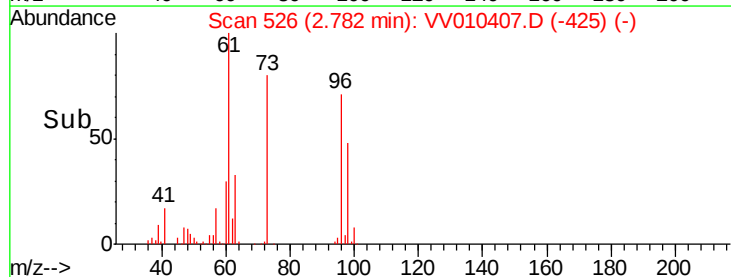
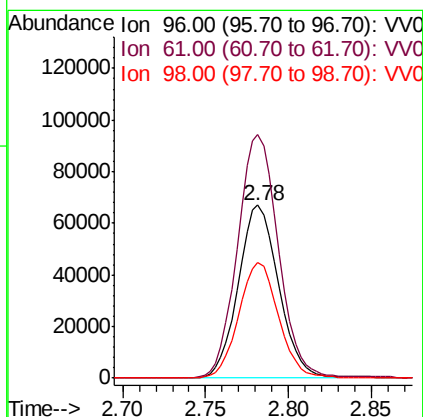
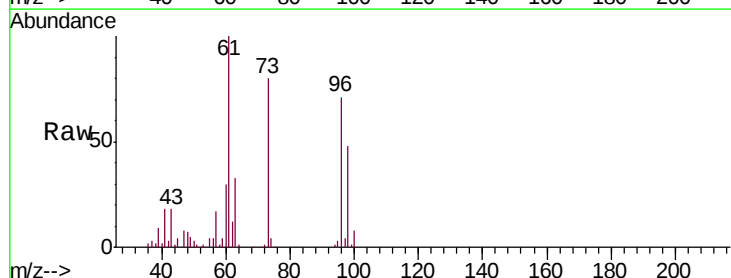
Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

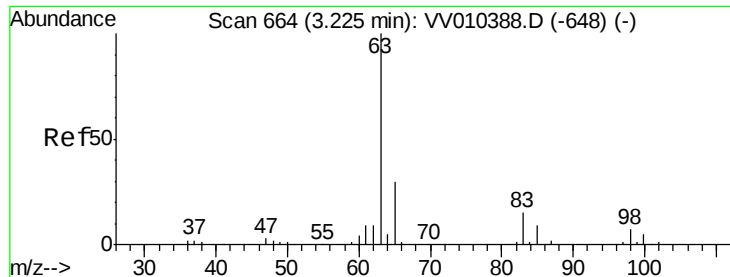
Tgt Ion	Ratio	Lower	Upper
73	100		
43	21.9	16.6	24.8
57	20.3	17.0	25.6



#18
trans-1,2-Dichloroethene
Concen: 22.493 ug/L
RT: 2.78 min Scan# 526
Delta R.T. -0.01 min
Lab File: VV010407.D
Acq: 20 Apr 2019 02:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	140.7	96.3	178.9
98	67.1	44.9	83.5

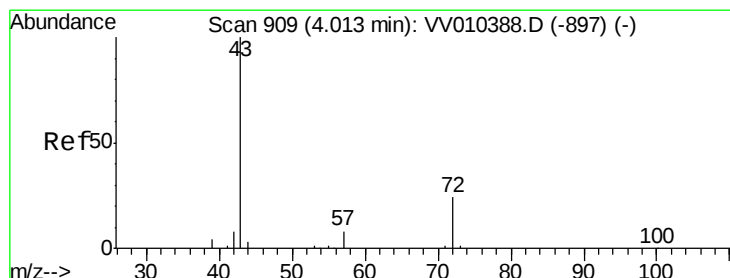
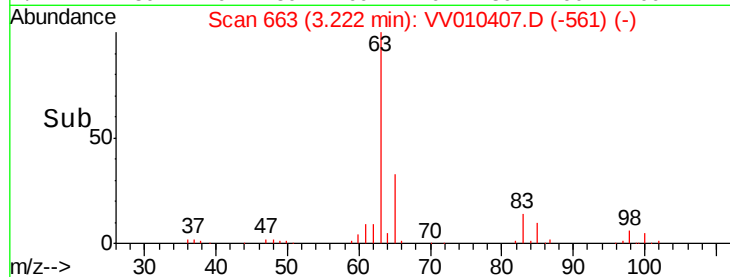
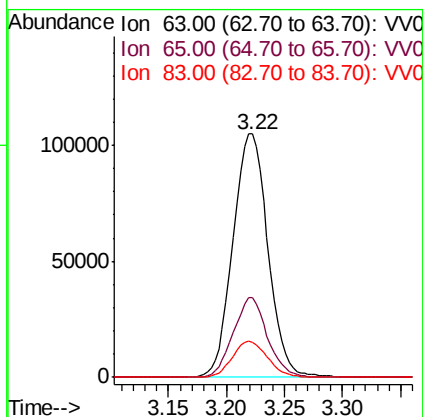
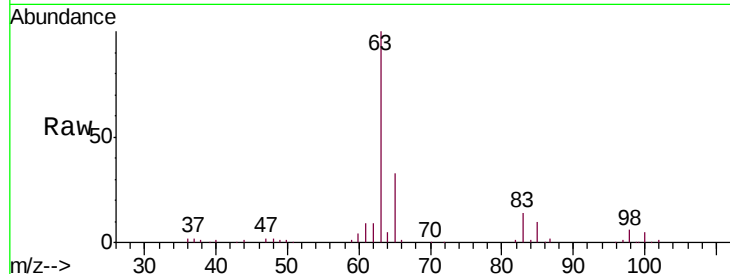




#19
 1,1-Dichloroethane
 Concen: 25.426 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. -0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

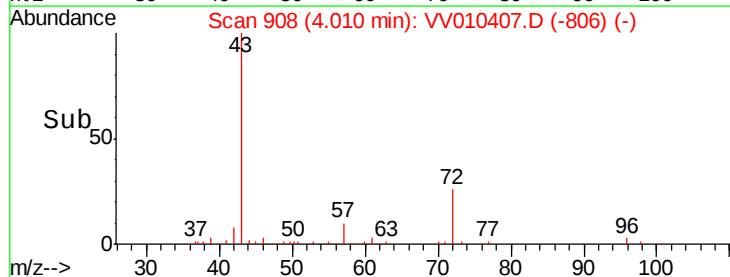
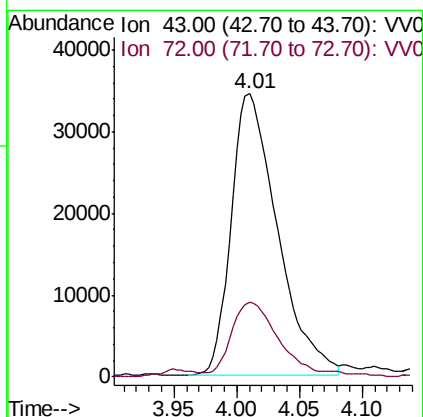
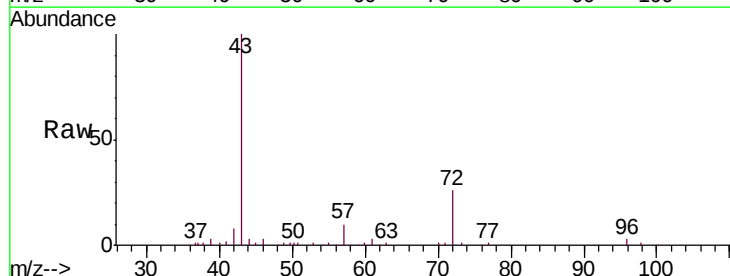
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

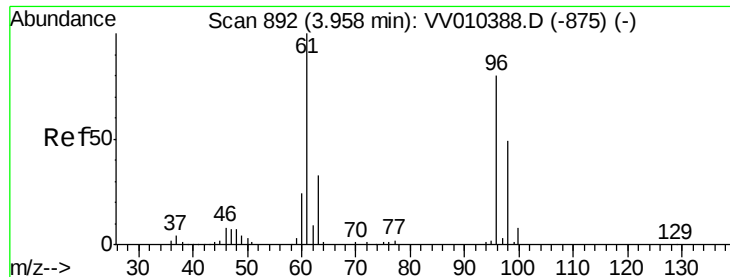
Tgt Ion: 63 Resp: 219675
 Ion Ratio Lower Upper
 63 100
 65 32.6 23.0 42.8
 83 14.3 10.2 19.0



#21
 2-Butanone
 Concen: 47.538 ug/L
 RT: 4.01 min Scan# 908
 Delta R.T. -0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Tgt Ion: 43 Resp: 88270
 Ion Ratio Lower Upper
 43 100
 72 24.4 13.1 39.1



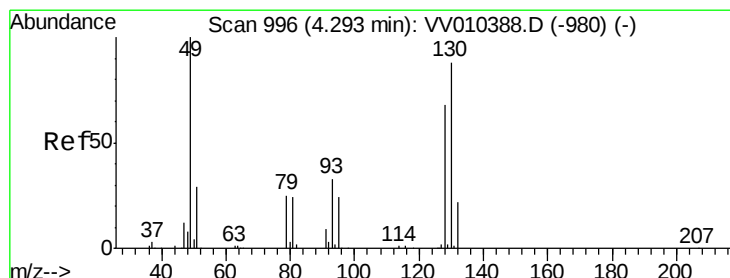
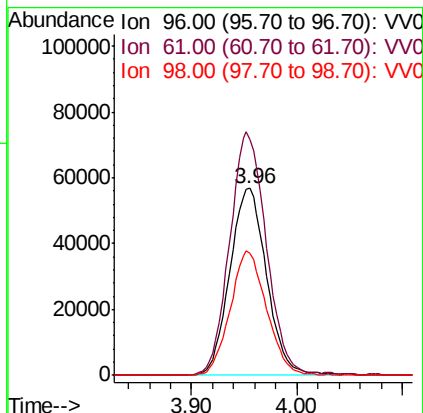
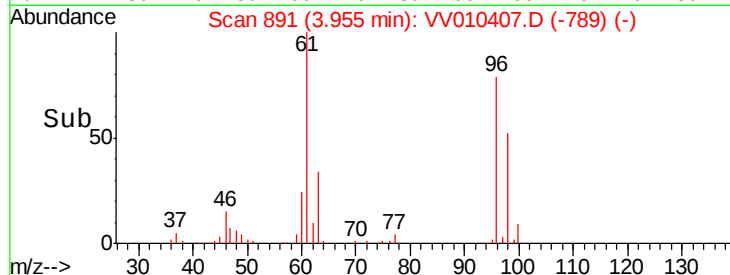
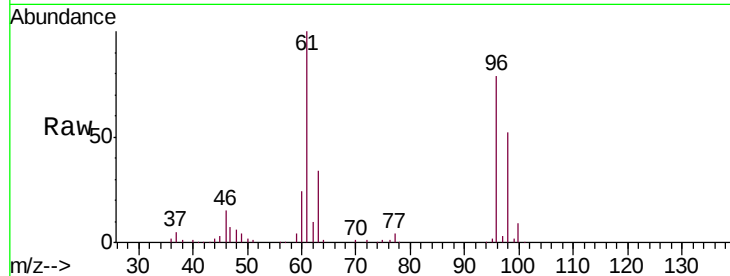


#22

cis-1,2-Dichloroethene
 Concen: 23.845 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

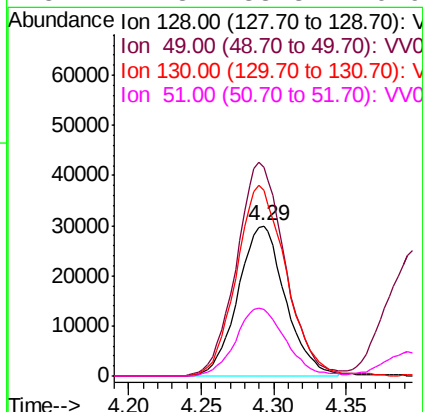
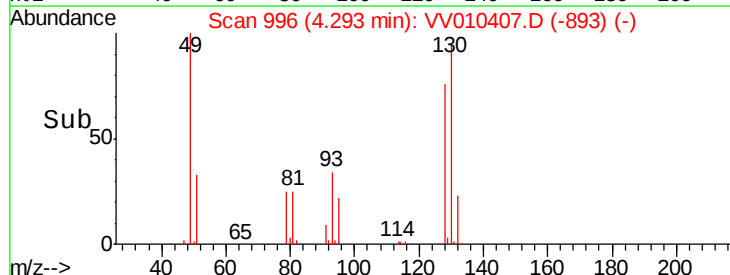
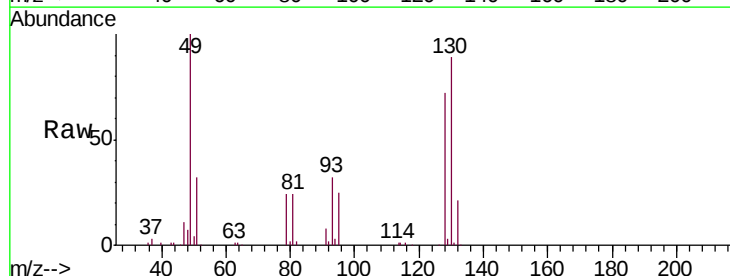
Tgt Ion: 96 Resp: 137389
 Ion Ratio Lower Upper
 96 100
 61 126.2 83.7 155.4
 98 65.6 43.7 81.1

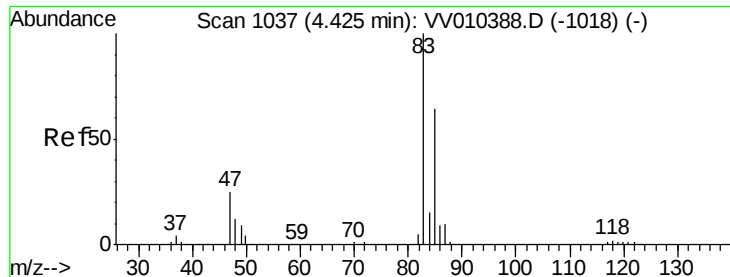


#23

Bromochloromethane
 Concen: 23.631 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Tgt Ion: 128 Resp: 68147
 Ion Ratio Lower Upper
 128 100
 49 139.1 94.6 175.8
 130 124.1 85.7 159.1
 51 44.3 33.3 49.9

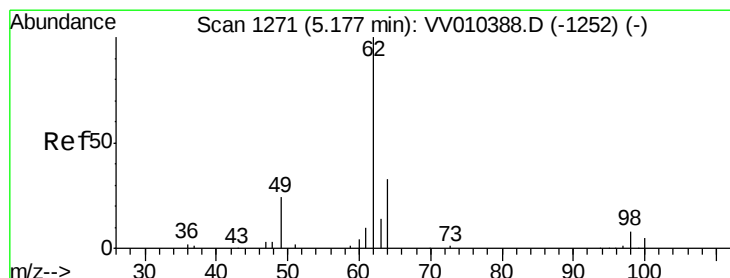
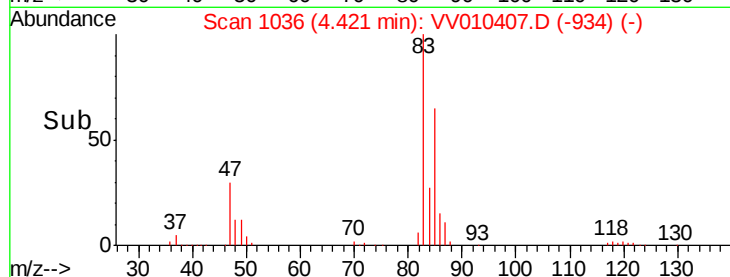
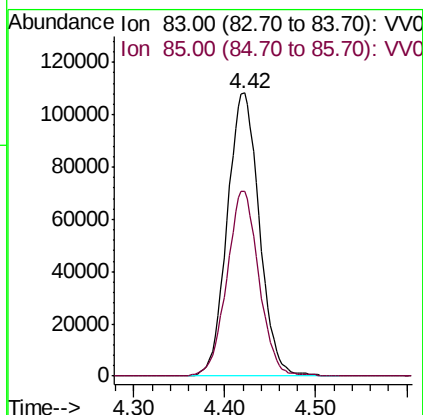
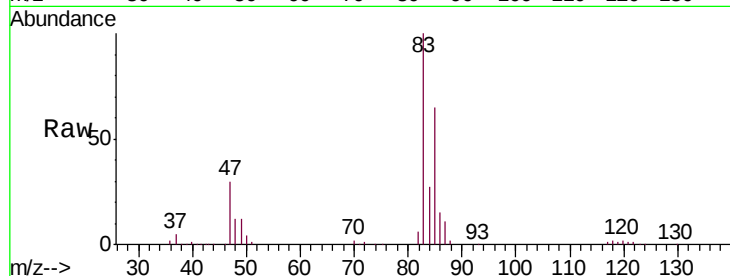




#25
Chloroform
Concen: 26.337 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV010407.D
Acq: 20 Apr 2019 02:21

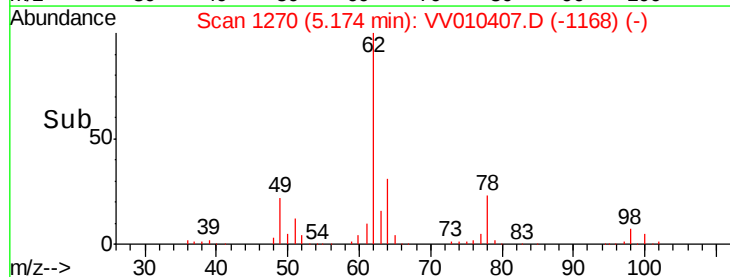
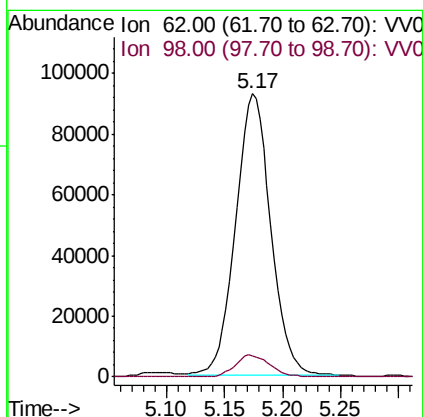
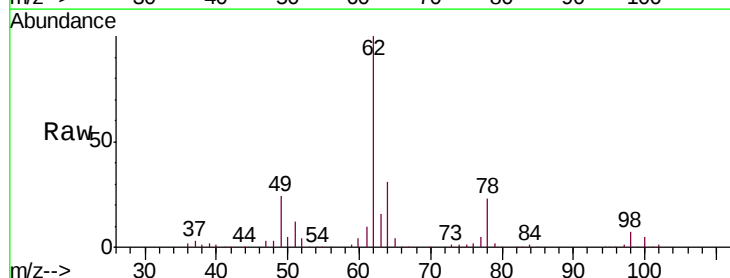
Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

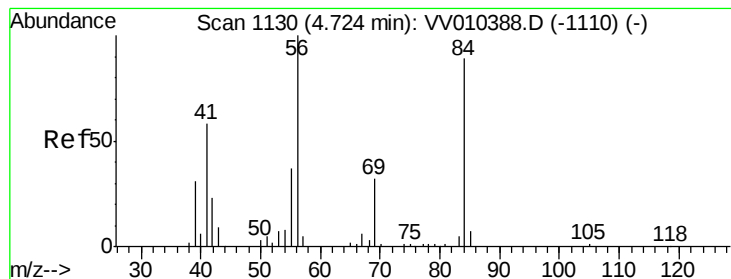
Tgt Ion: 83 Resp: 265177
Ion Ratio Lower Upper
83 100
85 65.1 46.5 86.5



#27
1,2-Dichloroethane
Concen: 27.076 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV010407.D
Acq: 20 Apr 2019 02:21

Tgt Ion: 62 Resp: 194774
Ion Ratio Lower Upper
62 100
98 7.5 6.8 10.2





#30

Cyclohexane

Concen: 22.381 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

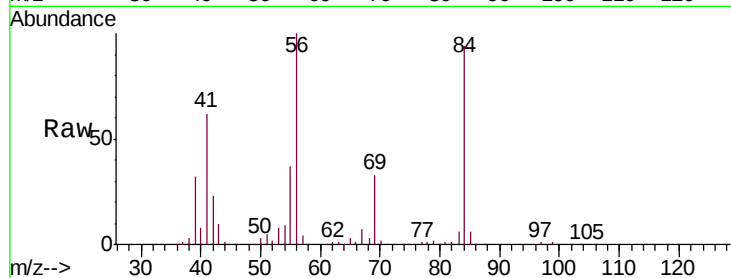
Tgt Ion: 56 Resp: 164131

Ion Ratio Lower Upper

56 100

69 32.7 25.3 37.9

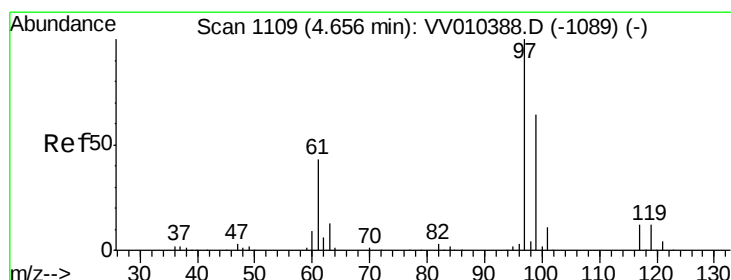
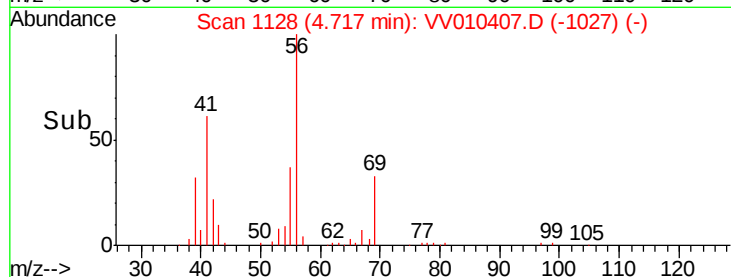
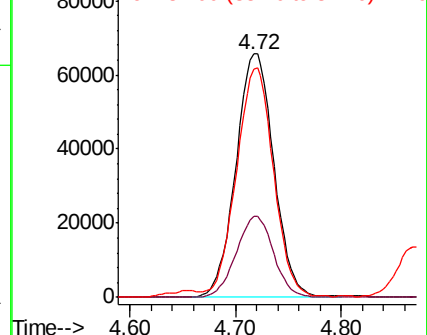
84 92.1 73.0 109.4



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: 25.066 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

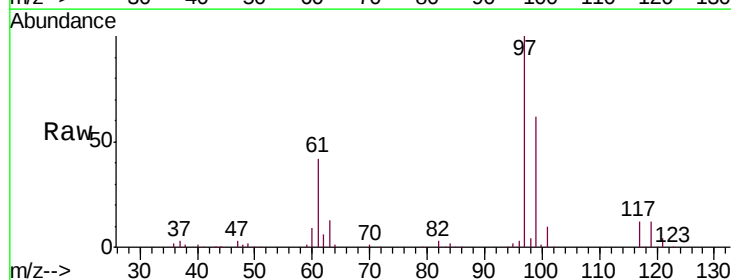
Tgt Ion: 97 Resp: 221128

Ion Ratio Lower Upper

97 100

99 64.3 53.0 79.4

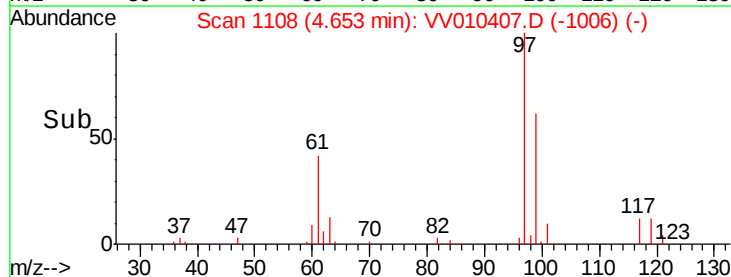
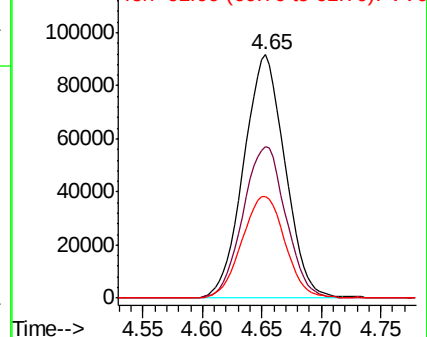
61 43.7 34.5 51.7

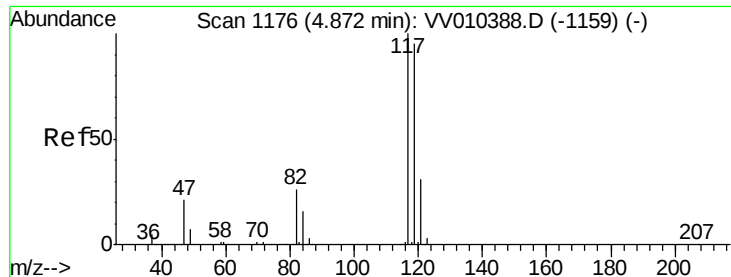


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 24.309 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

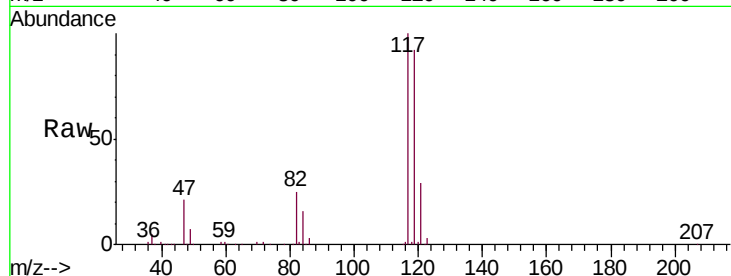
VSTD02576

Tgt Ion:117 Resp: 202335

Ion Ratio Lower Upper

117 100

119 93.5 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

80000

60000

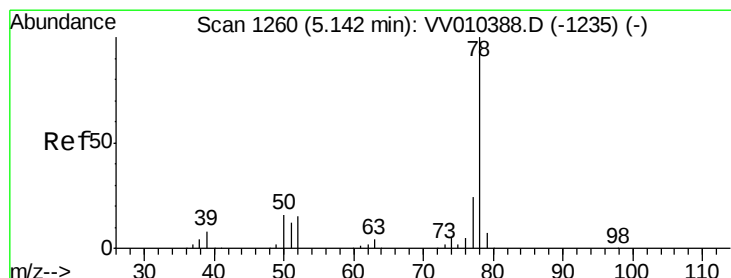
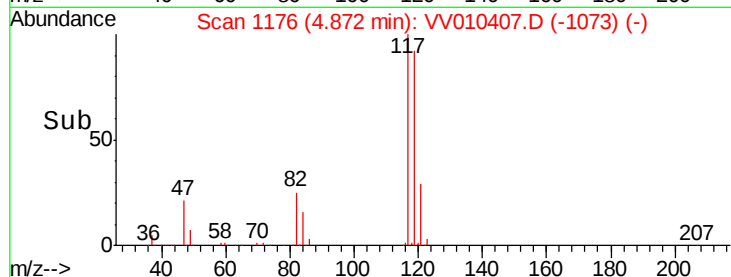
40000

20000

0

Time-->

4.80 4.90 5.00



#34

Benzene

Concen: 23.688 ug/L

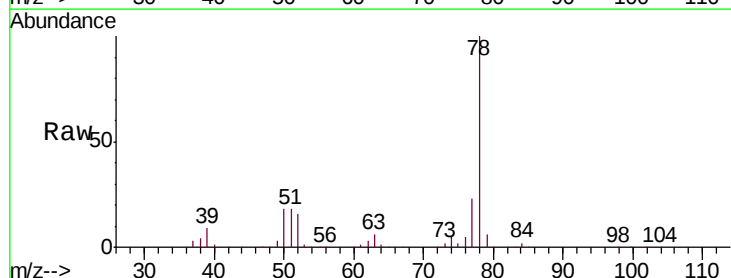
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Tgt Ion: 78 Resp: 462540



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.14

250000

200000

150000

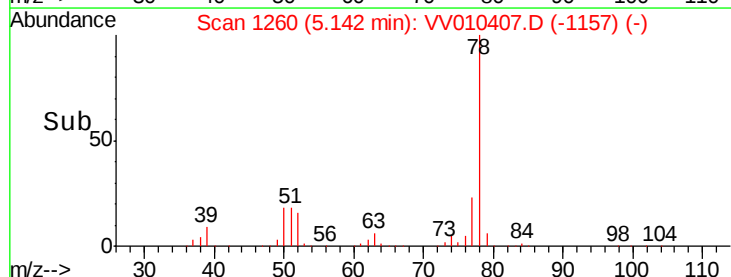
100000

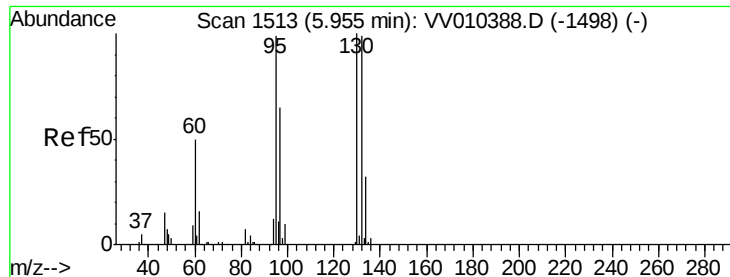
50000

0

Time-->

5.05 5.10 5.15 5.20 5.25





#35

Trichloroethene

Concen: 24.166 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampled :

VSTD02576

Tgt Ion: 95 Resp: 139609

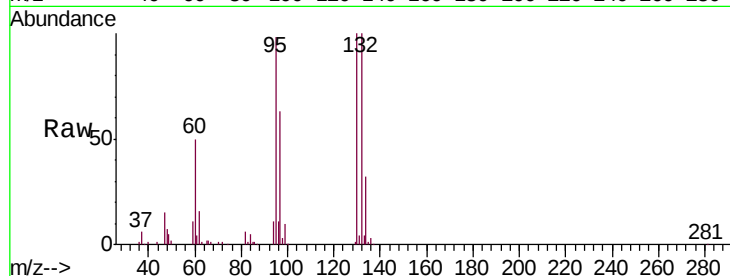
Ion Ratio Lower Upper

95 100

97 65.5 45.6 84.8

132 99.1 71.5 132.7

130 103.0 74.0 137.4

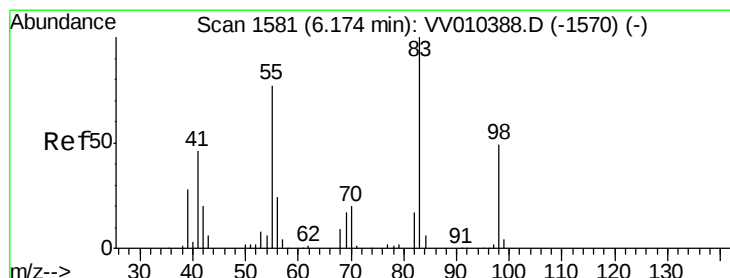
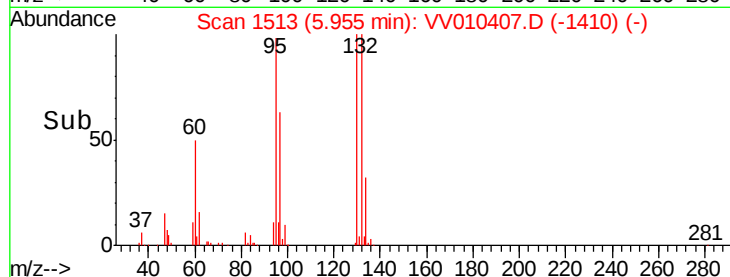
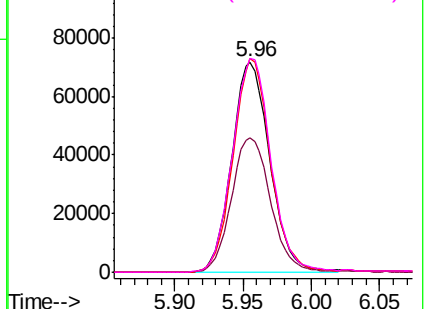


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 21.184 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

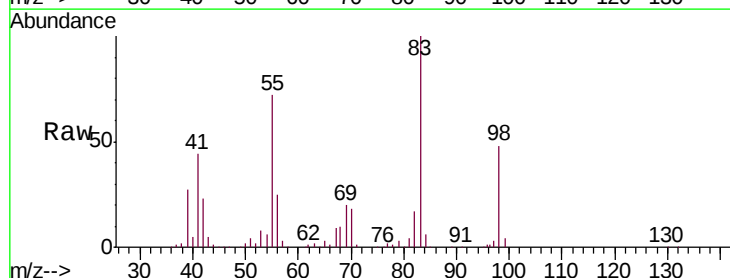
Tgt Ion: 83 Resp: 178203

Ion Ratio Lower Upper

83 100

55 74.9 55.9 83.9

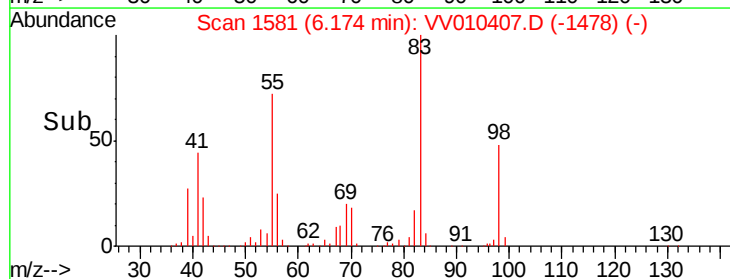
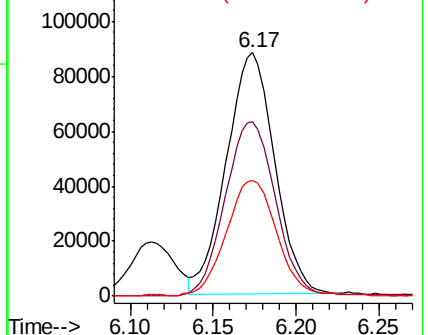
98 50.5 37.3 55.9

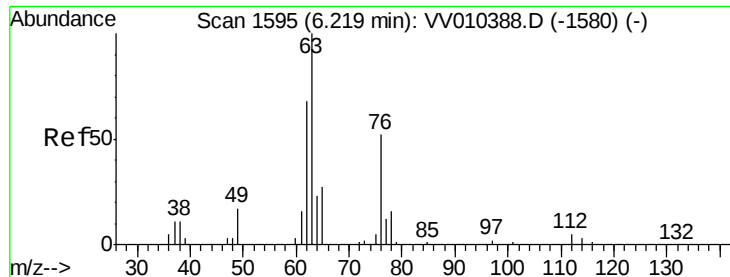


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

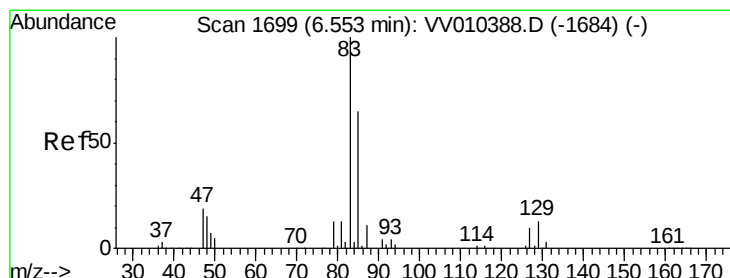
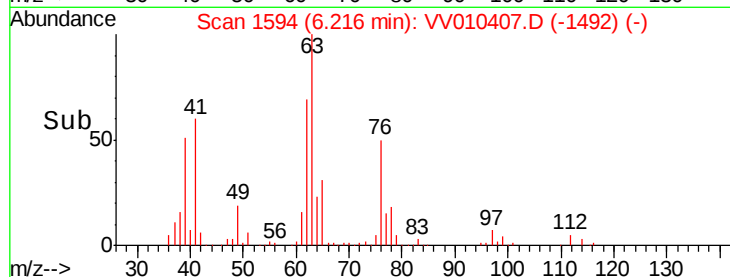
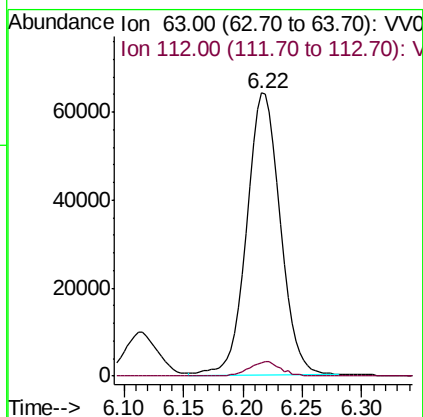
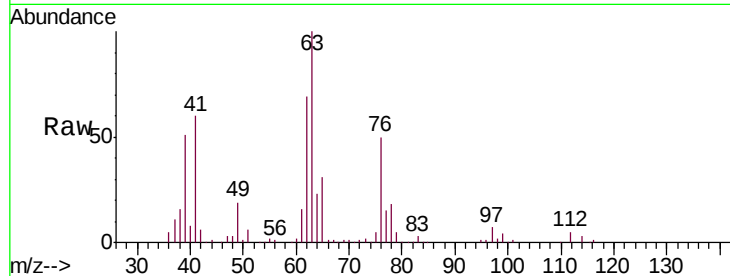




#40
 1,2-Dichloropropane
 Concen: 25.074 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

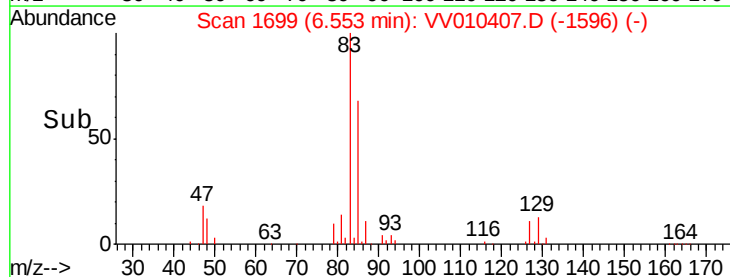
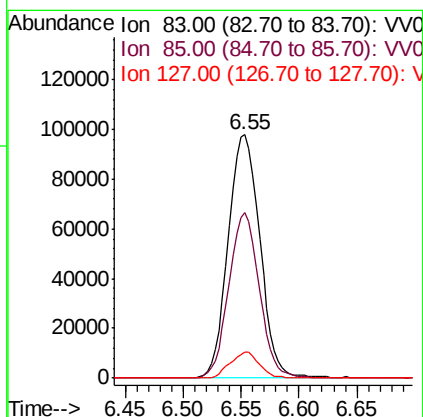
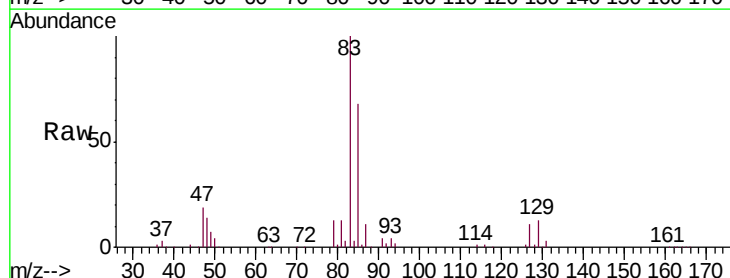
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

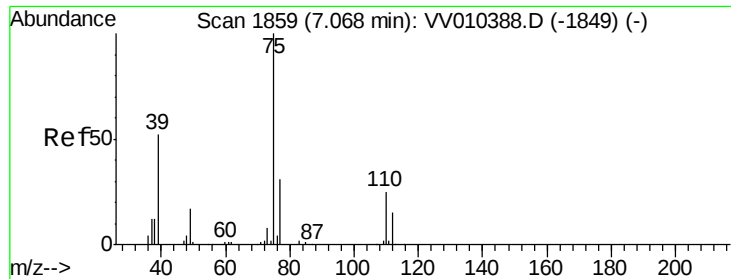
Tgt Ion: 63 Resp: 125573
 Ion Ratio Lower Upper
 63 100
 112 5.0 3.6 5.4



#41
 Bromodichloromethane
 Concen: 26.438 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Tgt Ion: 83 Resp: 185805
 Ion Ratio Lower Upper
 83 100
 85 67.8 45.0 83.6
 127 10.5 7.4 11.2



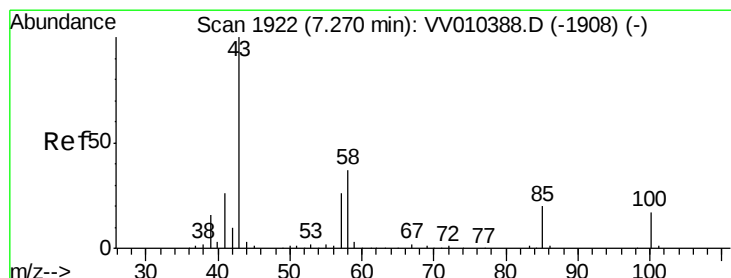
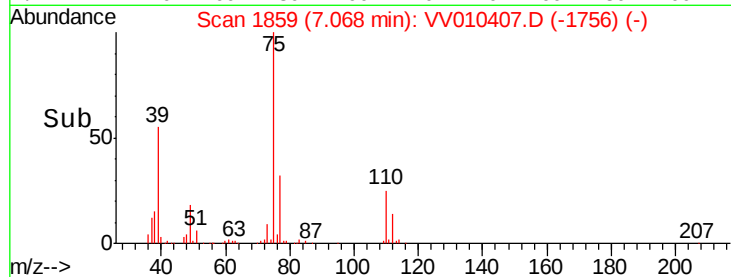
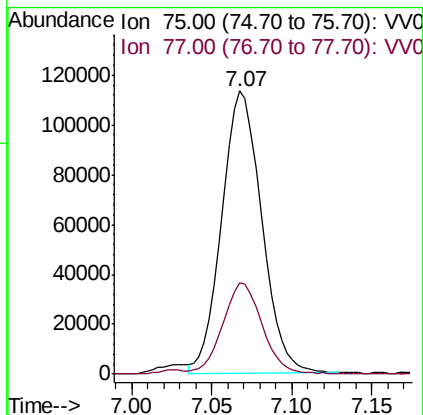
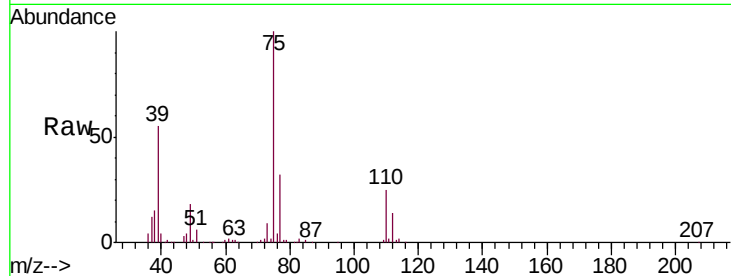


#42

cis-1,3-Dichloropropene
 Concen: 25.662 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

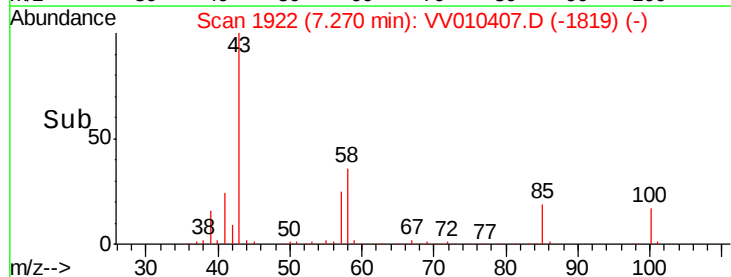
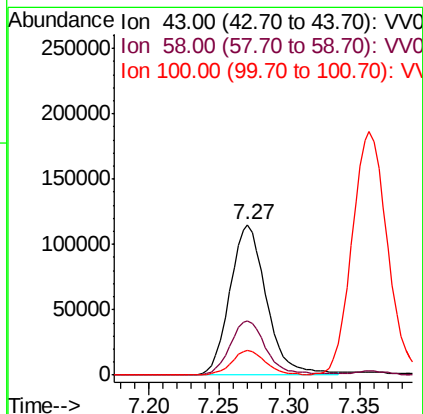
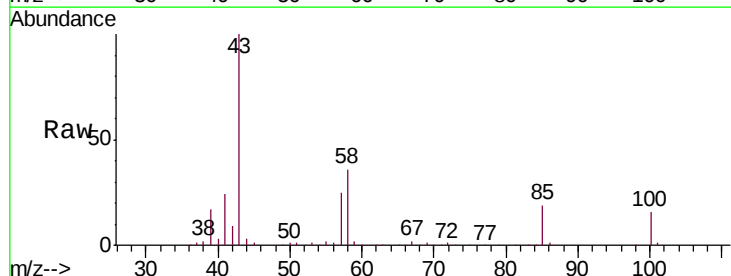
Tgt Ion: 75 Resp: 193837
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.1 39.1

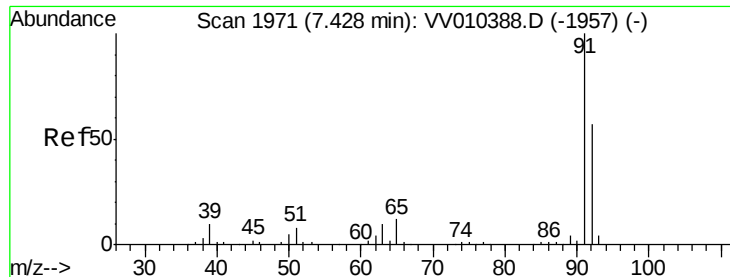


#43

4-Methyl-2-pentanone
 Concen: 53.111 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Tgt Ion: 43 Resp: 207816
 Ion Ratio Lower Upper
 43 100
 58 35.8 30.0 45.0
 100 15.5 12.6 19.0





#44

Toluene

Concen: 24.255 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

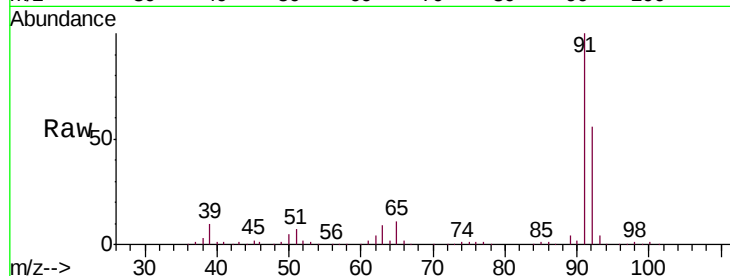
VSTD02576

Tgt Ion: 91 Resp: 533932

Ion Ratio Lower Upper

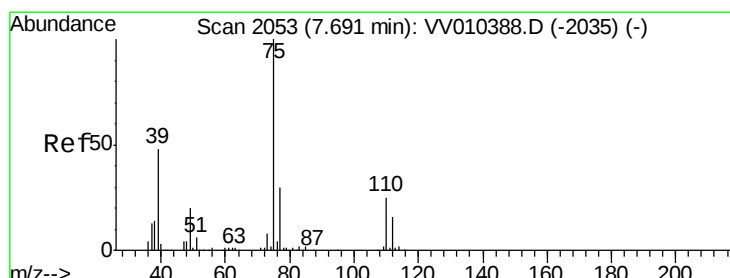
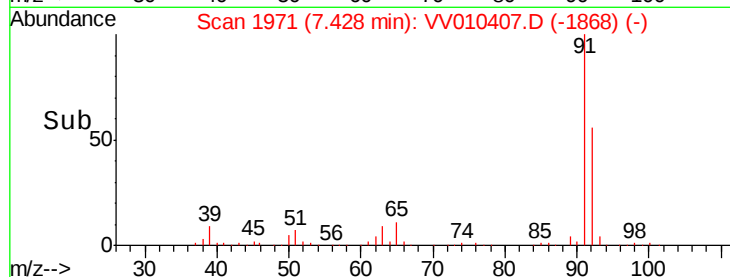
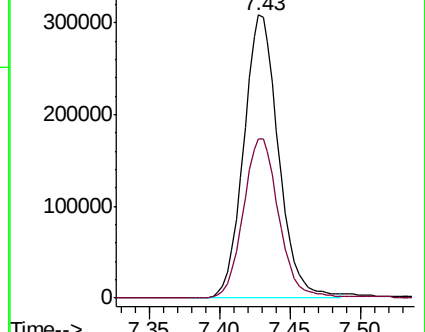
91 100

92 56.4 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV010407.D (-1868) (-)

Ion 92.00 (91.70 to 92.70): VV010407.D (-1868) (-)



#45

trans-1,3-Dichloropropene

Concen: 25.700 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010407.D

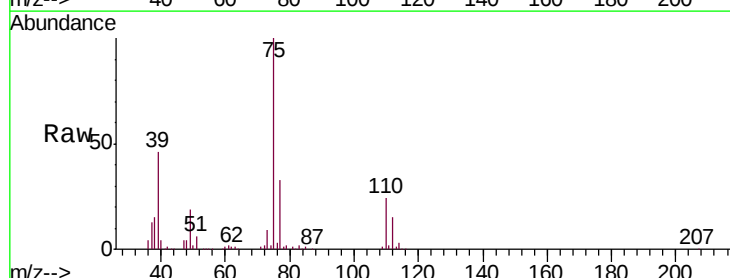
Acq: 20 Apr 2019 02:21

Tgt Ion: 75 Resp: 180988

Ion Ratio Lower Upper

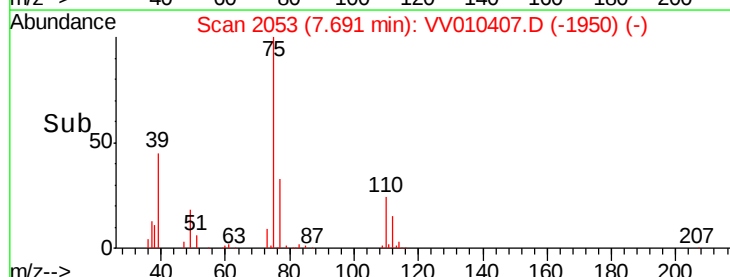
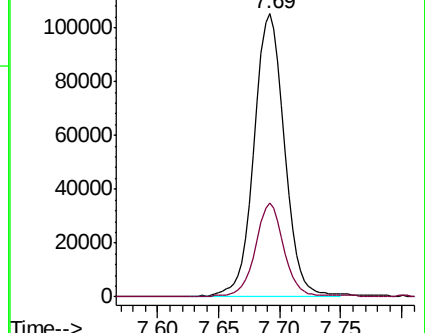
75 100

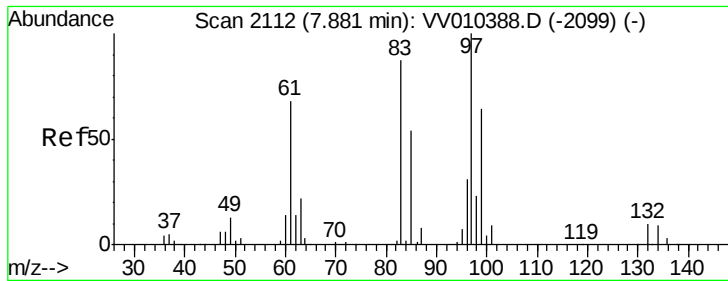
77 33.0 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV010407.D (-1950) (-)

Ion 77.00 (76.70 to 77.70): VV010407.D (-1950) (-)

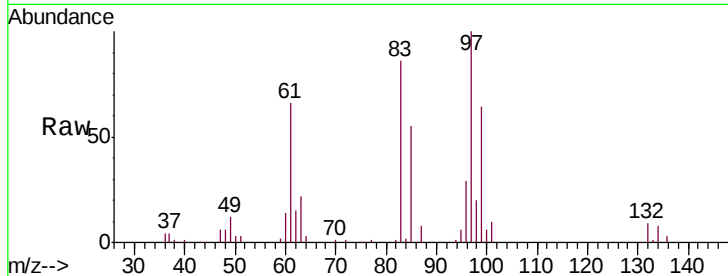




#46
 1,1,2-Trichloroethane
 Concen: 25.102 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

Tgt Ion:	97	Resp:	113257
Ion	Ratio	Lower	Upper
97	100		
83	85.6	60.2	111.8
85	54.8	39.1	72.7
99	63.7	43.9	81.5



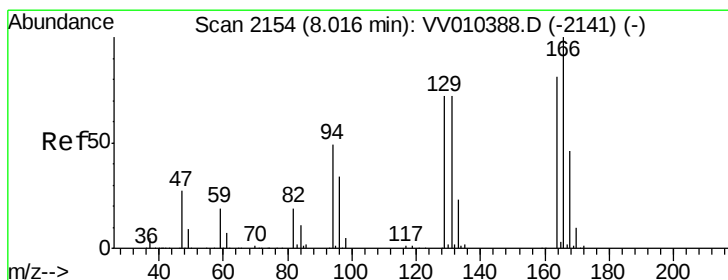
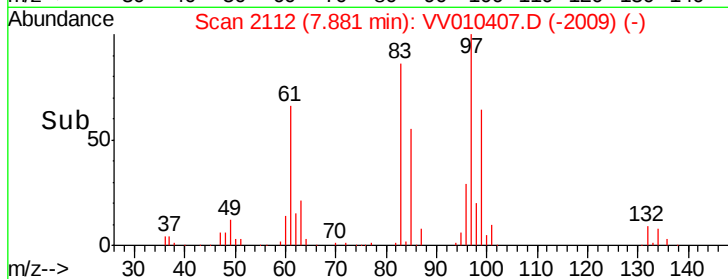
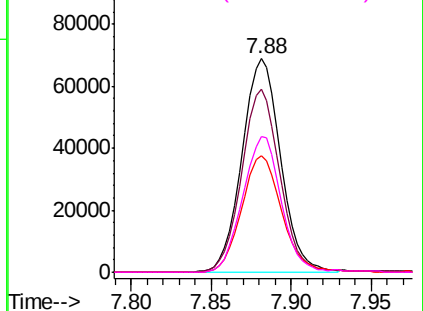
Abundance

Ion 97.00 (96.70 to 97.70): VV010388.D (-2099) (-)

Ion 83.00 (82.70 to 83.70): VV010388.D (-2099) (-)

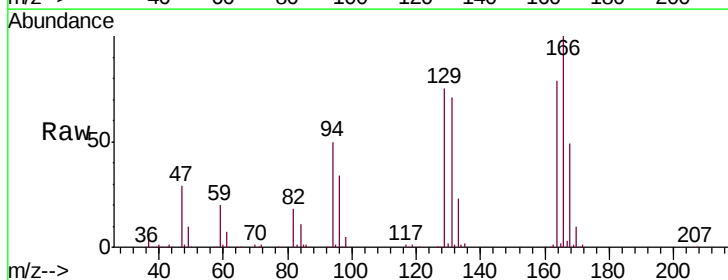
Ion 85.00 (84.70 to 85.70): VV010388.D (-2099) (-)

Ion 99.00 (98.70 to 99.70): VV010388.D (-2099) (-)



#47
 Tetrachloroethene
 Concen: 21.607 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Tgt Ion:	164	Resp:	111379
Ion	Ratio	Lower	Upper
164	100		
129	95.6	64.7	120.1
131	90.1	64.5	119.7
166	127.0	90.5	168.1



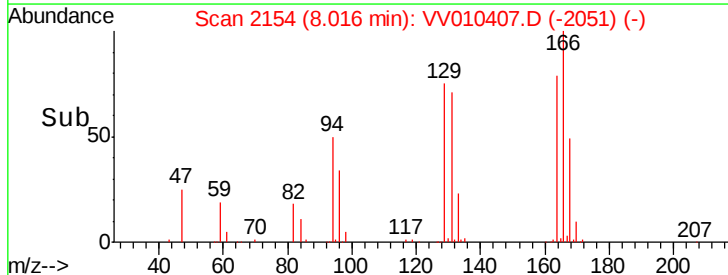
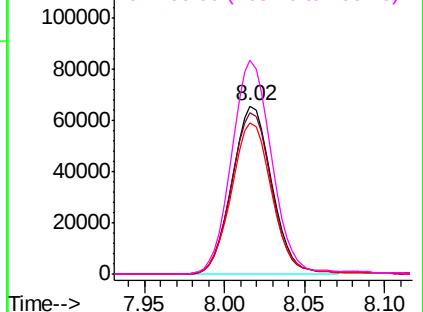
Abundance

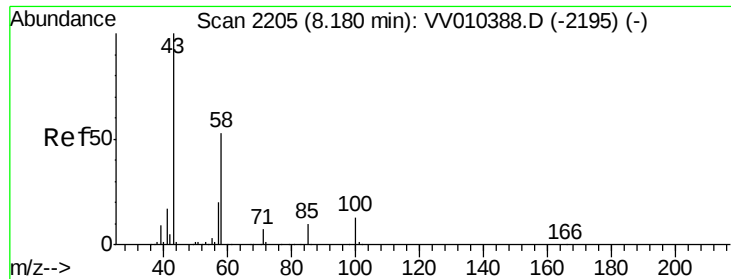
Ion 164.00 (163.70 to 164.70): VV010388.D (-2141) (-)

Ion 129.00 (128.70 to 129.70): VV010388.D (-2141) (-)

Ion 131.00 (130.70 to 131.70): VV010388.D (-2141) (-)

Ion 166.00 (165.70 to 166.70): VV010388.D (-2141) (-)

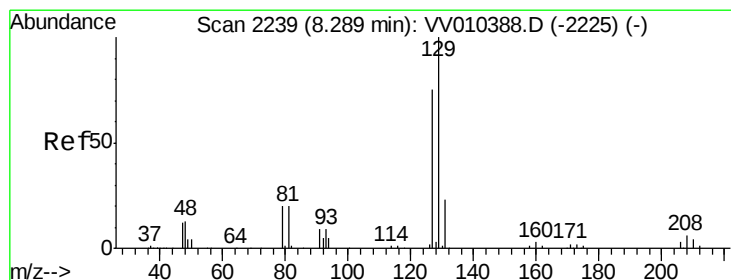
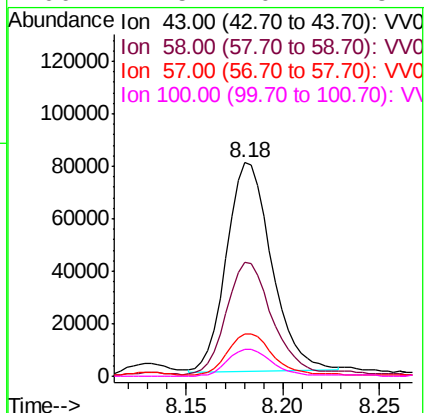
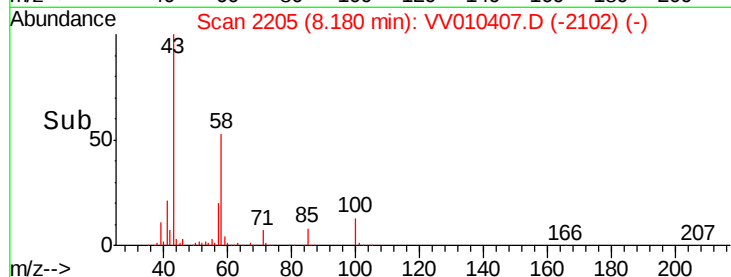
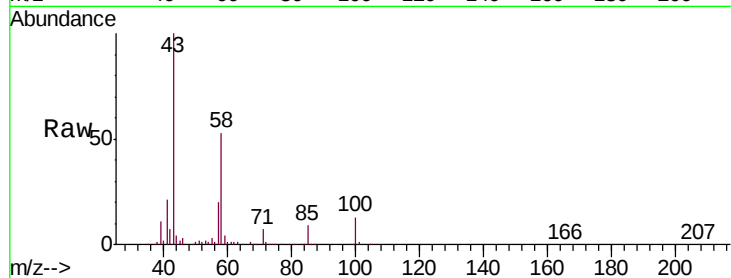




#49
2-Hexanone
Concen: 47.417 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV010407.D
Acq: 20 Apr 2019 02:21

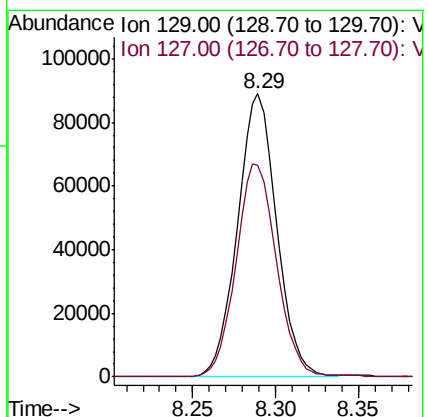
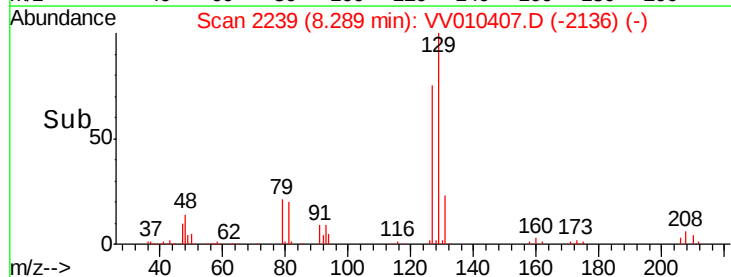
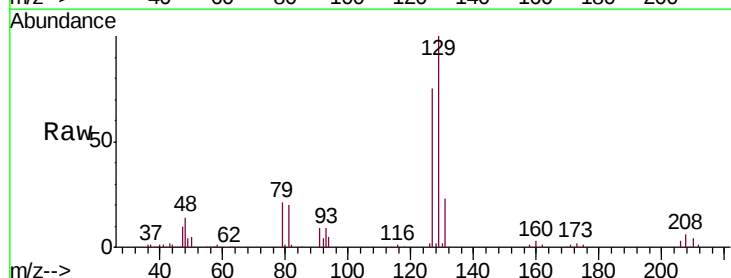
Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

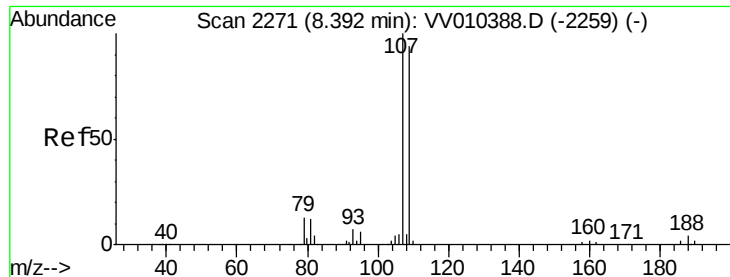
Tgt Ion: 43 Resp: 129868
Ion Ratio Lower Upper
43 100
58 54.4 44.9 67.3
57 21.2 15.8 23.6
100 12.5 10.1 15.1



#50
Dibromochloromethane
Concen: 26.353 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010407.D
Acq: 20 Apr 2019 02:21

Tgt Ion: 129 Resp: 145987
Ion Ratio Lower Upper
129 100
127 75.0 53.0 98.4





#51

1,2-Dibromoethane

Concen: 26.218 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

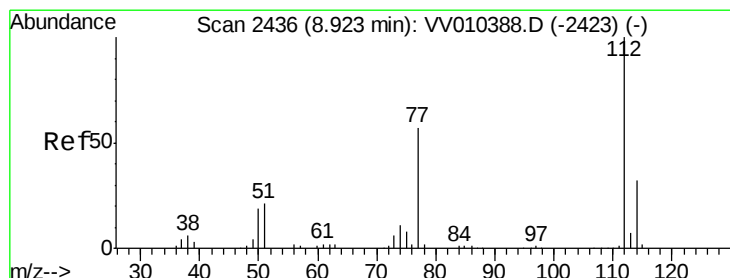
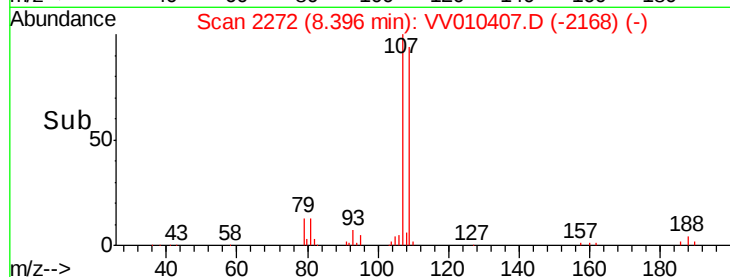
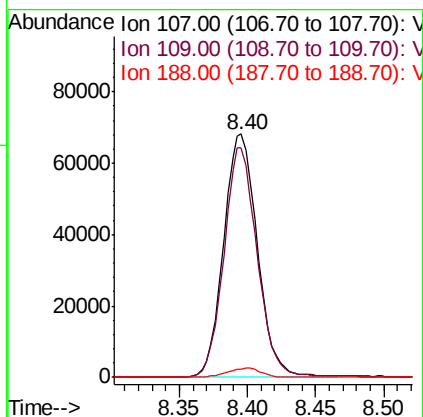
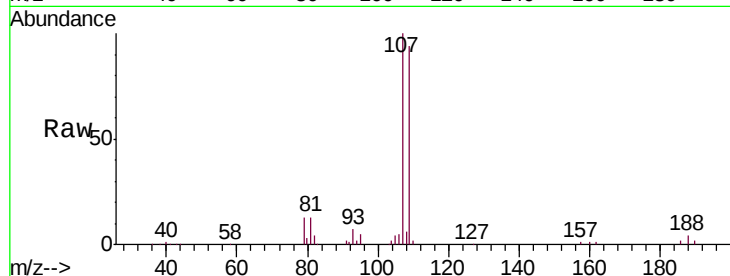
Tgt Ion:107 Resp: 117311

Ion Ratio Lower Upper

107 100

109 94.4 67.1 124.7

188 3.6 3.6 5.4#



#52

Chlorobenzene

Concen: 24.571 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

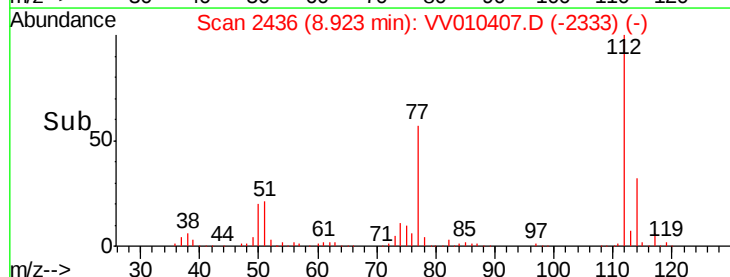
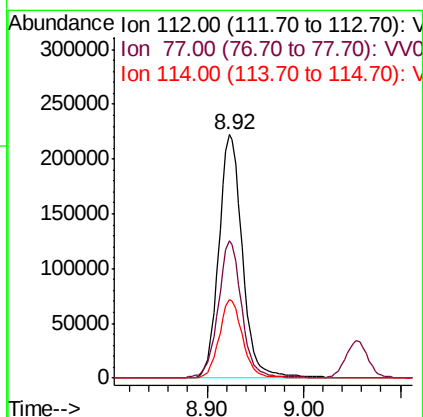
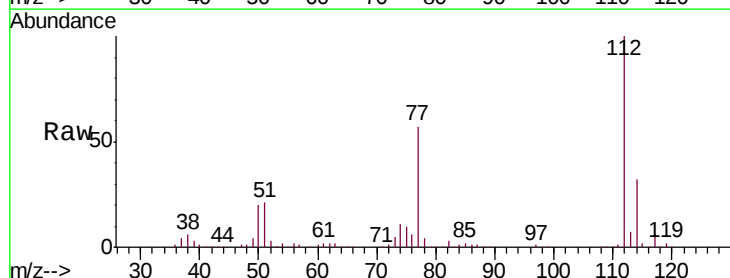
Tgt Ion:112 Resp: 376347

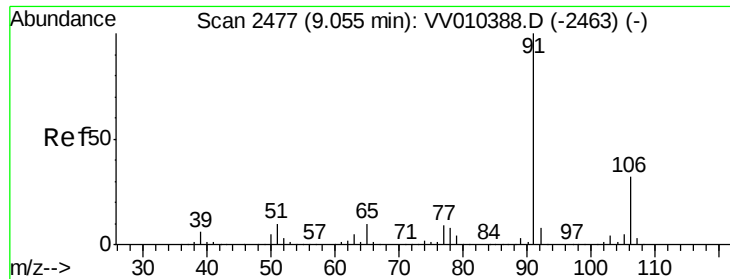
Ion Ratio Lower Upper

112 100

77 56.5 43.0 64.4

114 32.2 22.5 41.9

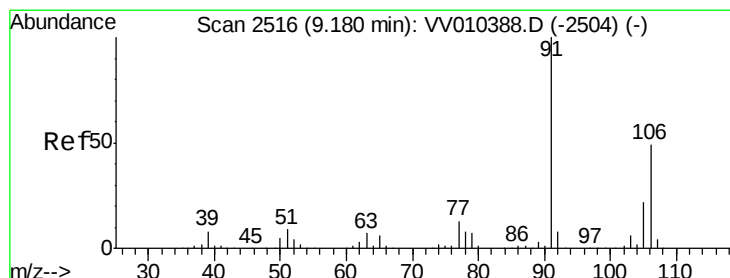
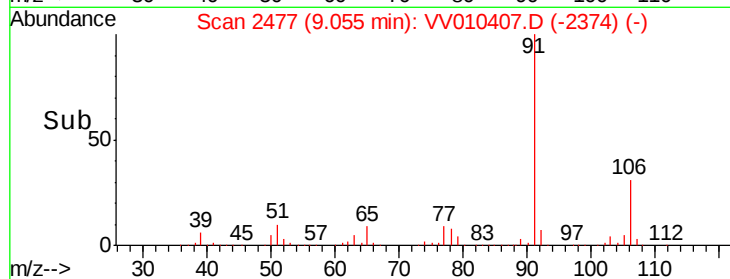
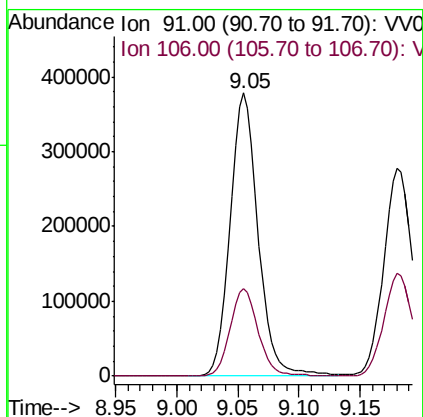
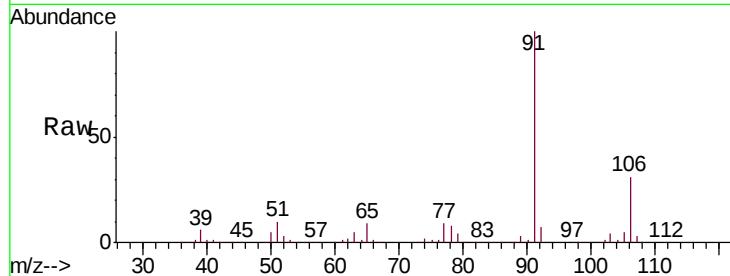




#53
Ethylbenzene
Concen: 24.261 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV010407.D
Acq: 20 Apr 2019 02:21

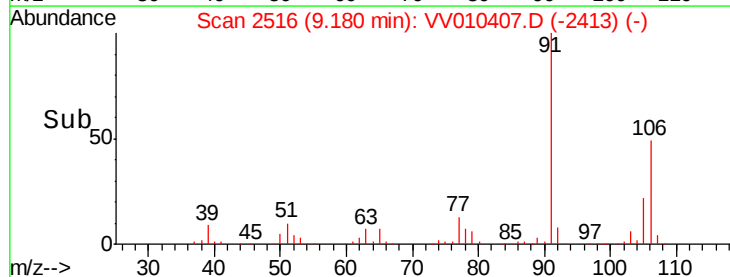
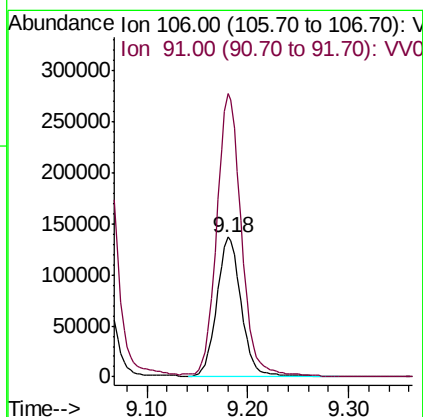
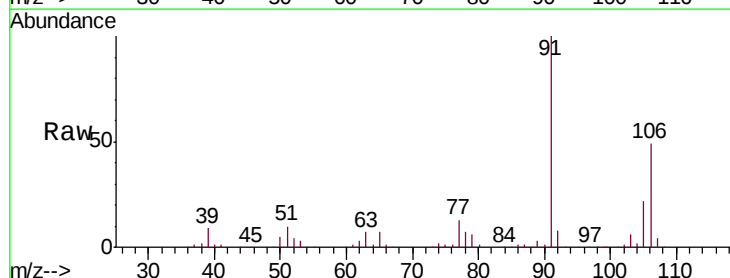
Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

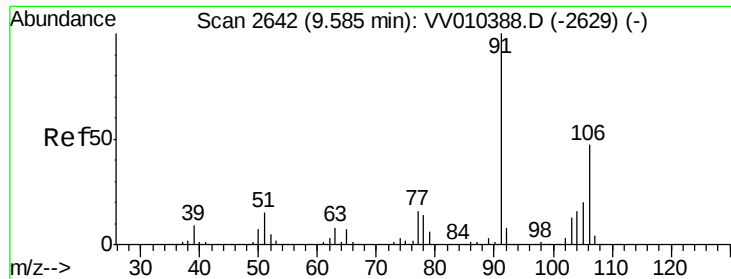
Tgt Ion: 91 Resp: 606752
Ion Ratio Lower Upper
91 100
106 30.7 22.5 41.9



#54
m,p-Xylene
Concen: 24.114 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV010407.D
Acq: 20 Apr 2019 02:21

Tgt Ion: 106 Resp: 233455
Ion Ratio Lower Upper
106 100
91 202.7 141.6 263.0





#55

o-xylene

Concen: 24.751 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

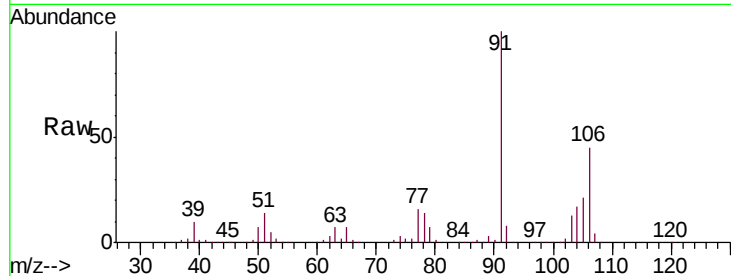
VSTD02576

Tgt Ion:106 Resp: 231094

Ion Ratio Lower Upper

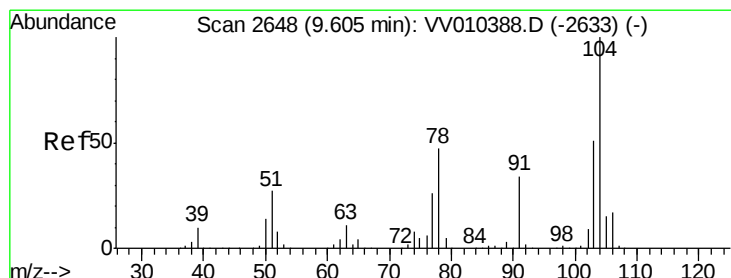
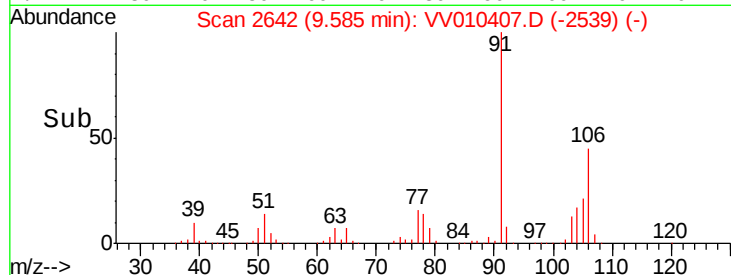
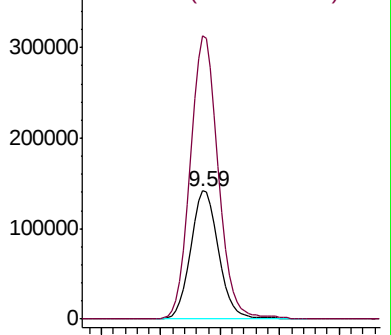
106 100

91 220.5 150.1 278.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 24.428 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010407.D

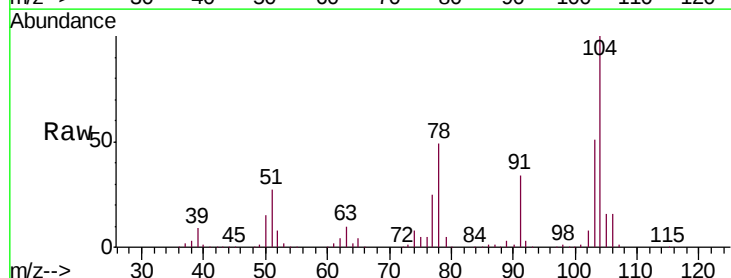
Acq: 20 Apr 2019 02:21

Tgt Ion:104 Resp: 389463

Ion Ratio Lower Upper

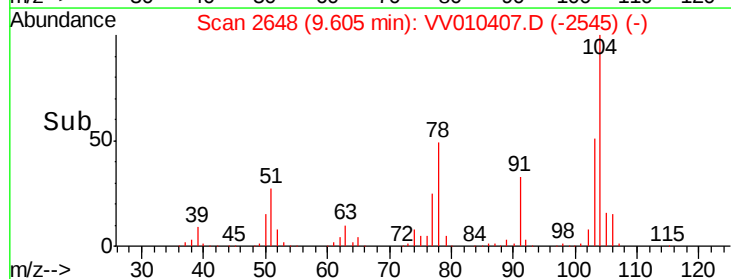
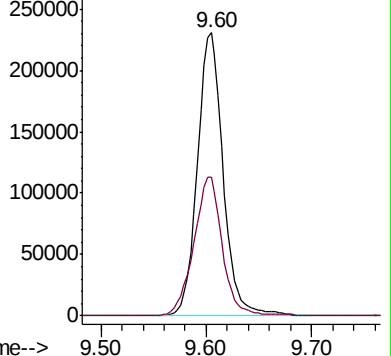
104 100

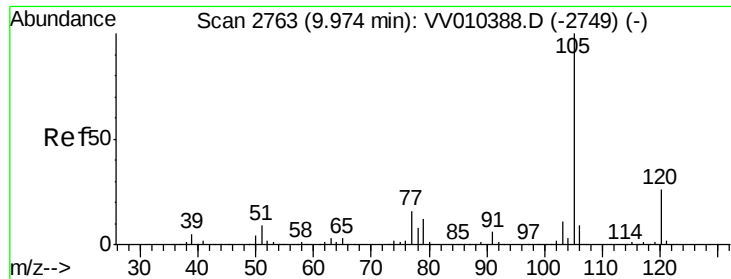
78 49.0 30.7 56.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 24.385 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

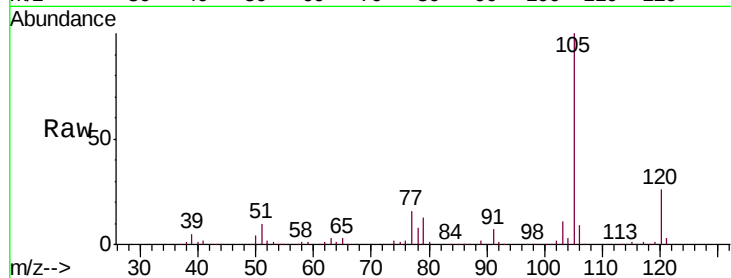
Tgt Ion: 105 Resp: 606680

Ion Ratio Lower Upper

105 100

120 26.8 21.9 32.9

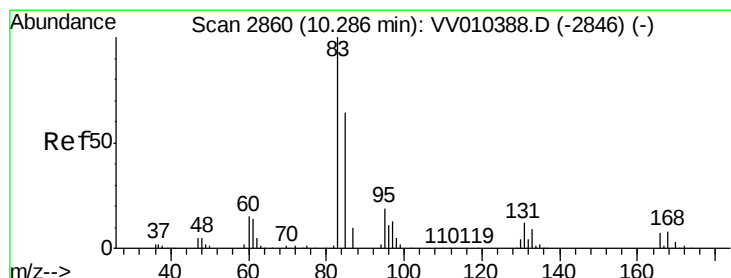
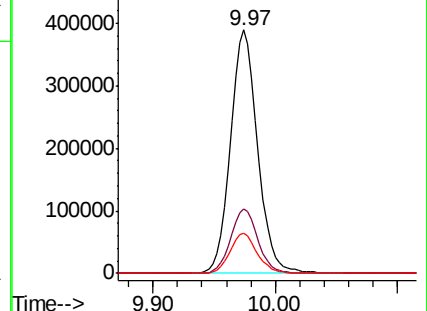
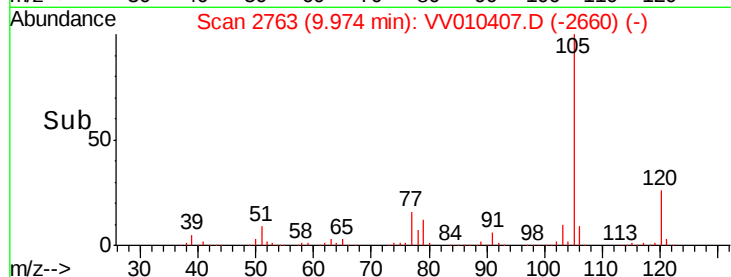
77 16.4 13.0 19.6



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: 24.162 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

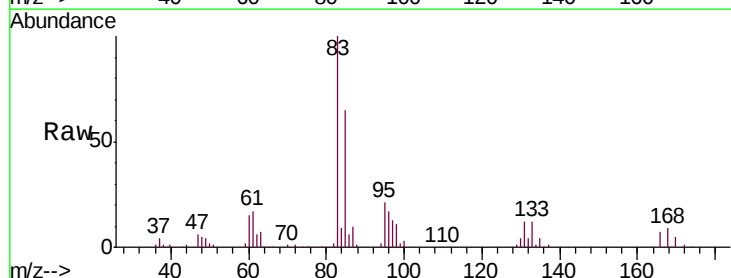
Tgt Ion: 83 Resp: 140966

Ion Ratio Lower Upper

83 100

85 65.3 44.9 83.3

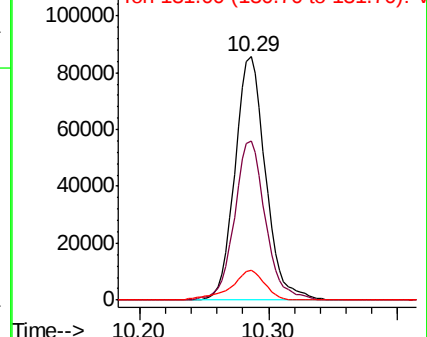
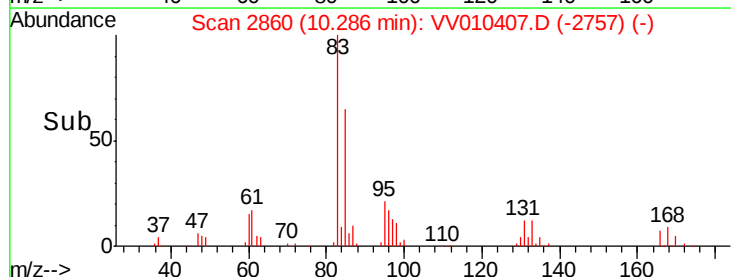
131 12.1 9.4 14.2

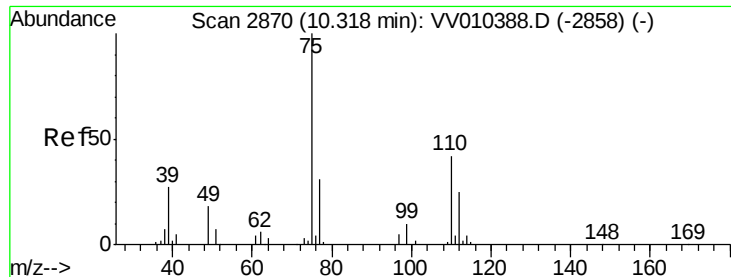


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

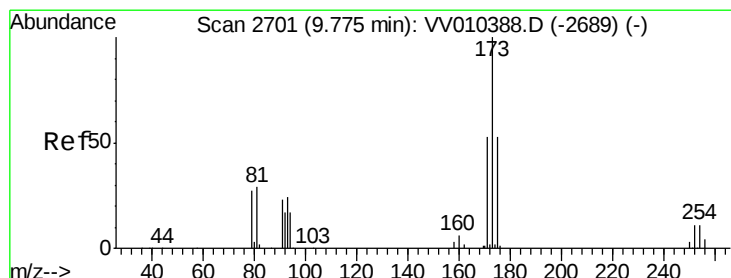
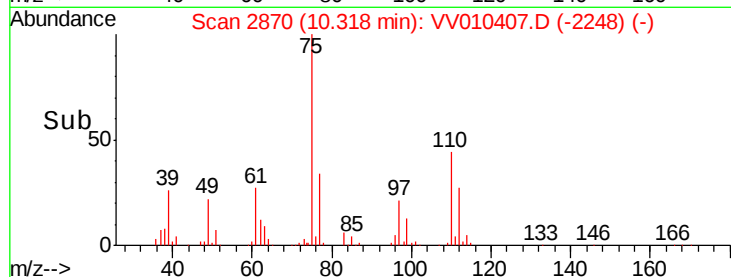
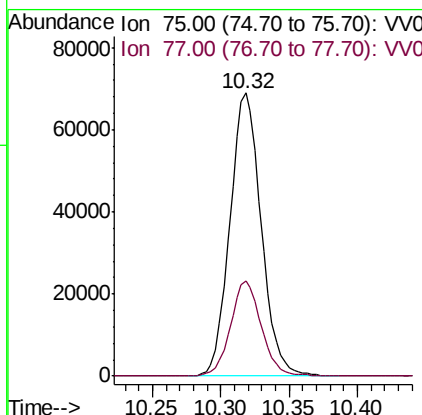
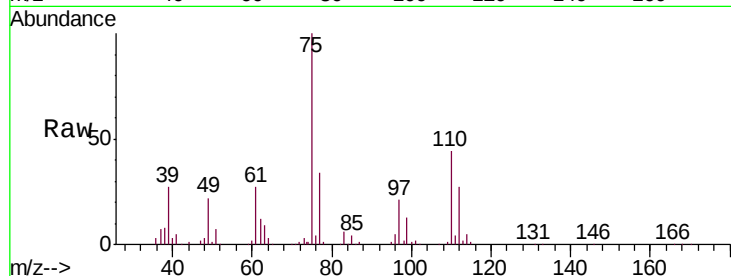




#59
 1,2,3-Trichloropropane
 Concen: 25.969 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

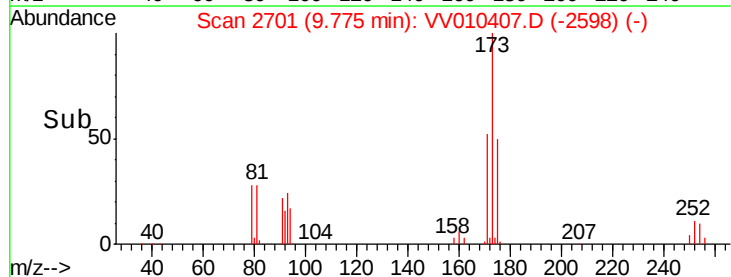
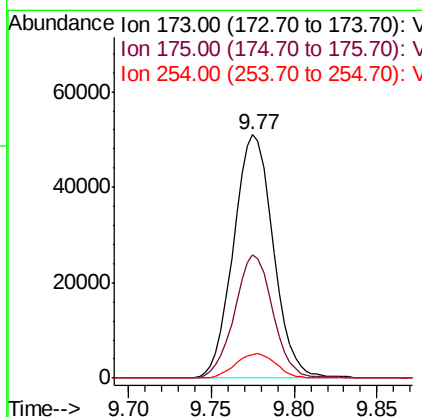
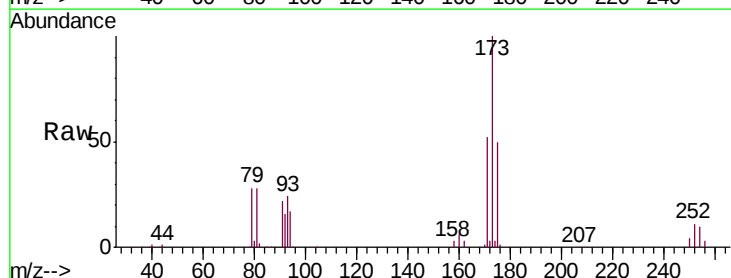
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

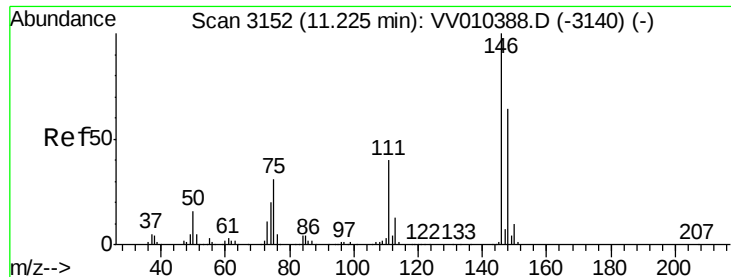
Tgt Ion: 75 Resp: 109713
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.8 38.8



#62
 Bromoform
 Concen: 27.413 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Tgt Ion: 173 Resp: 84968
 Ion Ratio Lower Upper
 173 100
 175 48.7 40.0 60.0
 254 10.1 7.8 11.6

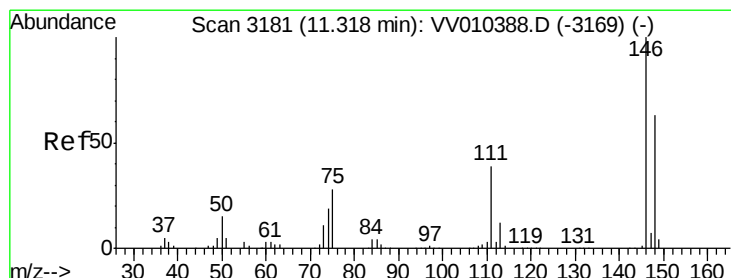
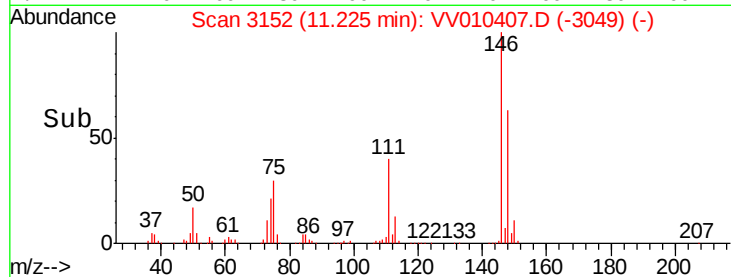
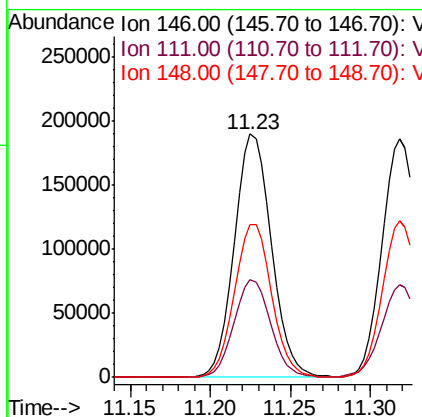
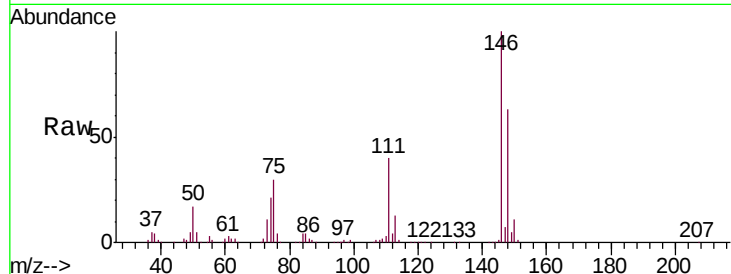




#63
 1,3-Dichlorobenzene
 Concen: 24.534 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

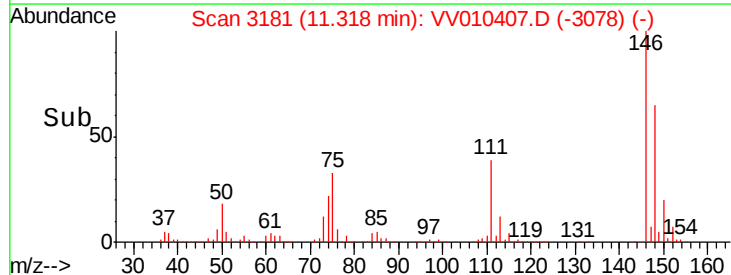
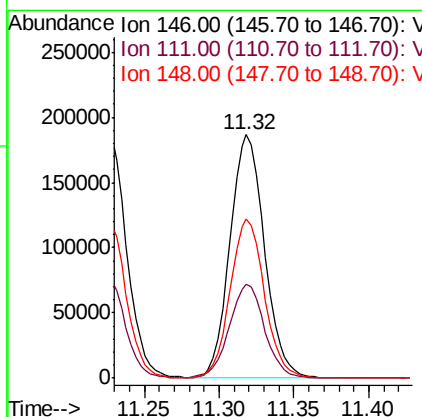
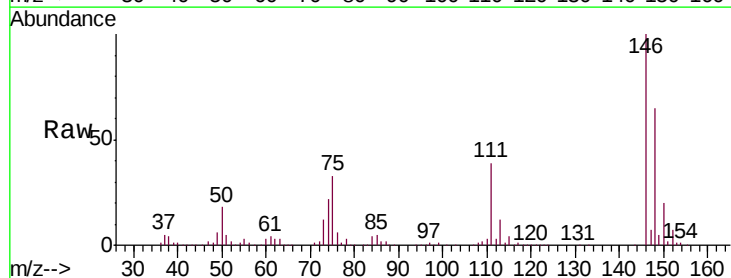
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

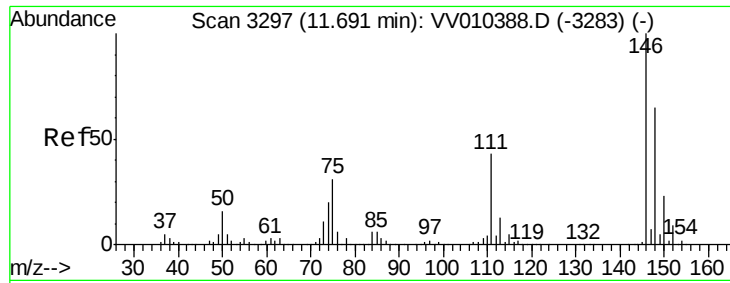
Tgt Ion:146 Resp: 299989
 Ion Ratio Lower Upper
 146 100
 111 40.1 27.6 51.4
 148 62.8 45.3 84.1



#64
 1,4-Dichlorobenzene
 Concen: 23.798 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Tgt Ion:146 Resp: 300028
 Ion Ratio Lower Upper
 146 100
 111 38.5 26.4 49.0
 148 65.3 45.3 84.1





#65

1,2-Dichlorobenzene

Concen: 24.726 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

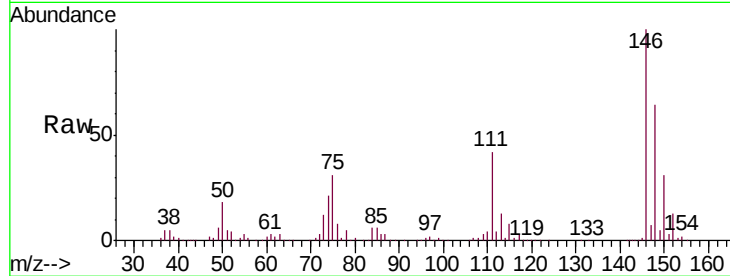
Tgt Ion:146 Resp: 291910

Ion Ratio Lower Upper

146 100

111 41.8 31.1 46.7

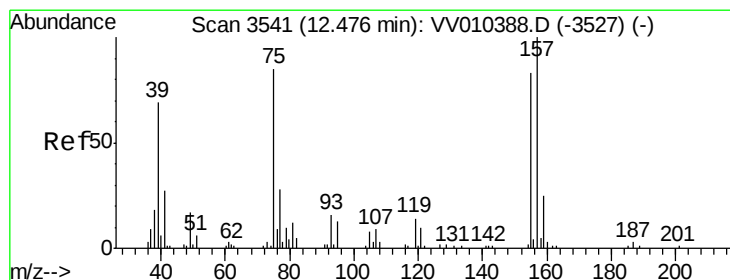
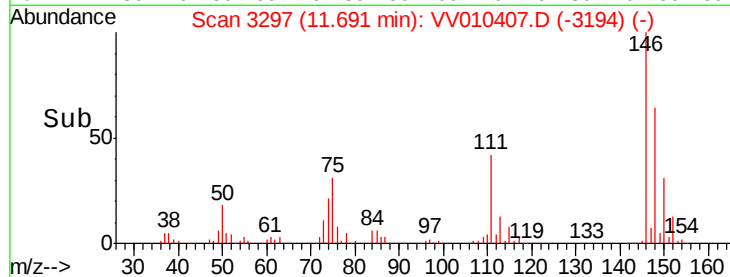
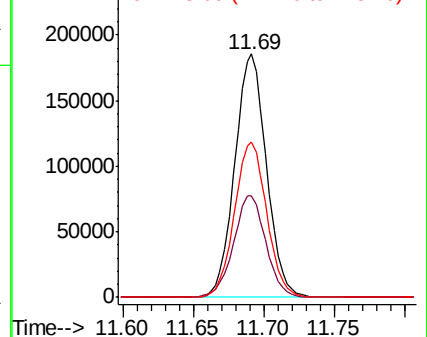
148 63.7 50.3 75.5



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: 24.801 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

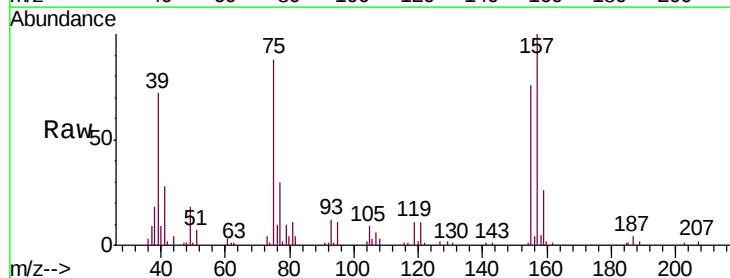
Tgt Ion: 75 Resp: 23400

Ion Ratio Lower Upper

75 100

157 113.8 100.6 151.0

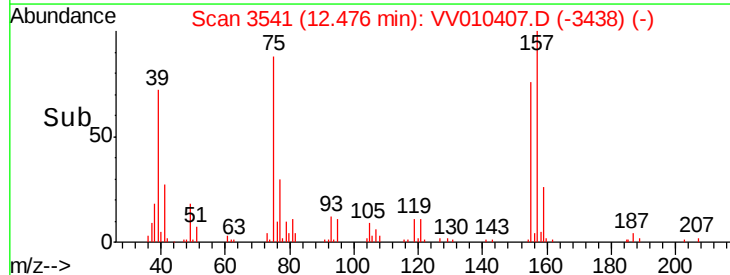
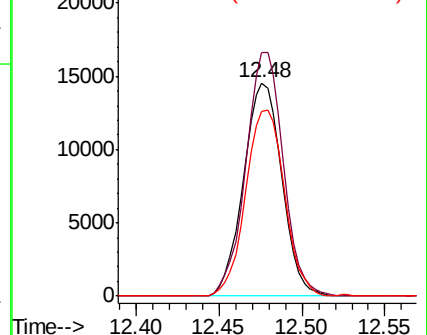
155 86.3 75.1 112.7

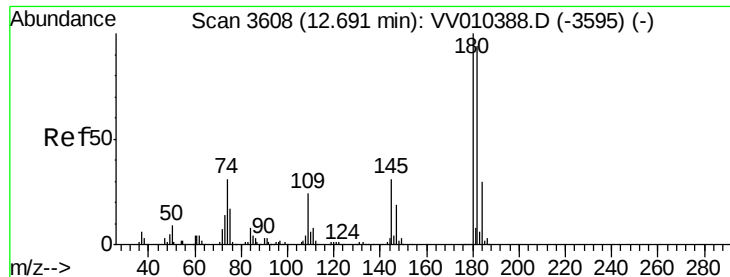


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

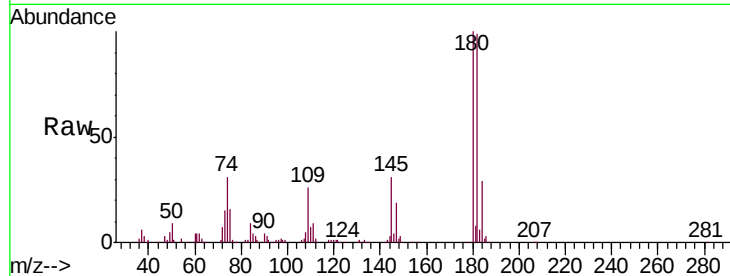




#67
 1,3,5-Trichlorobenzene
 Concen: 21.302 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

Tgt Ion:	180	Resp:	216639
Ion	Ratio	Lower	Upper
180	100		
182	97.1	75.5	113.3
184	30.2	23.6	35.4
145	30.2	22.6	33.8



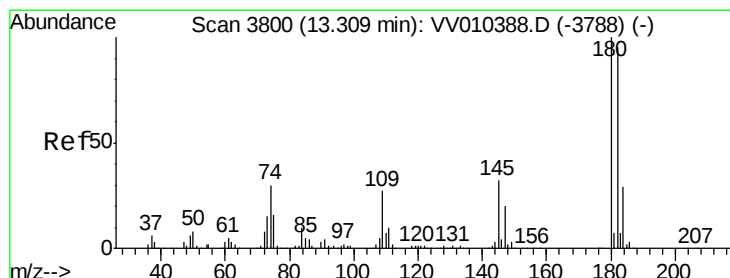
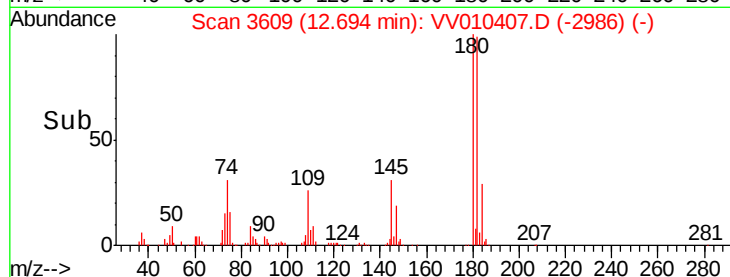
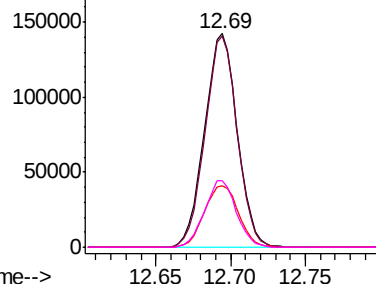
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

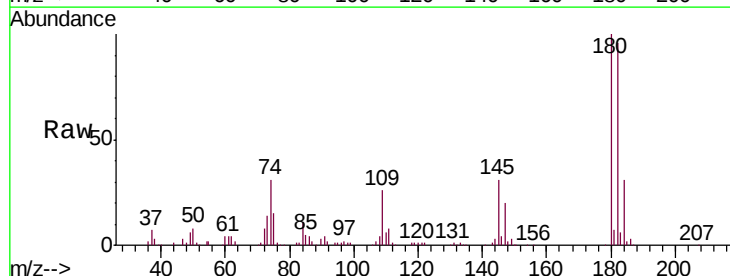
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 21.582 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010407.D
 Acq: 20 Apr 2019 02:21

Tgt Ion:	180	Resp:	175410
Ion	Ratio	Lower	Upper
180	100		
182	95.1	77.3	115.9
145	31.4	24.5	36.7

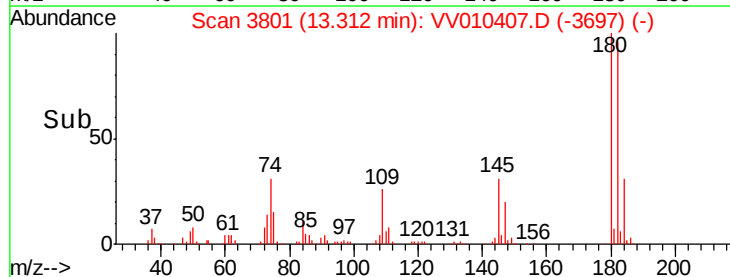
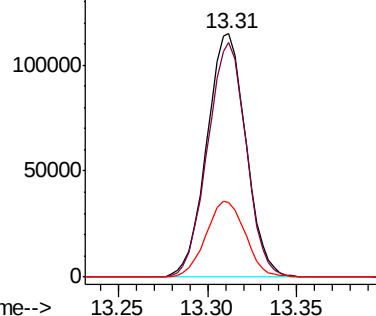


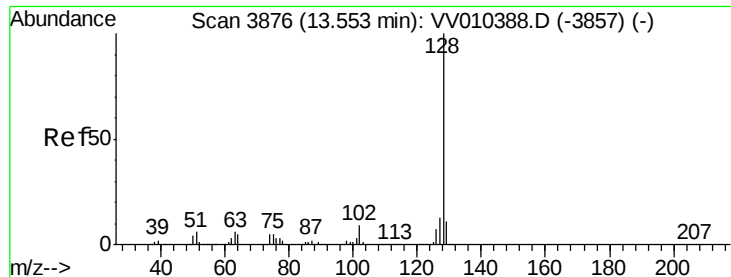
Abundance

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: 23.539 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

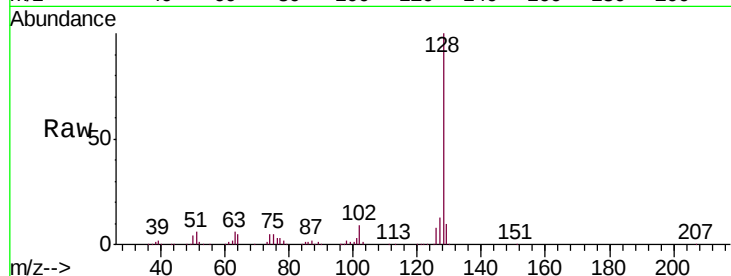
Tgt Ion:128 Resp: 353302

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

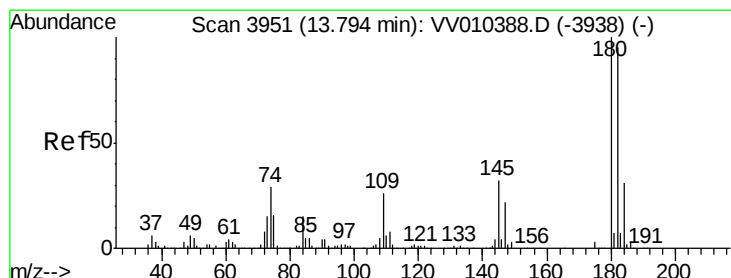
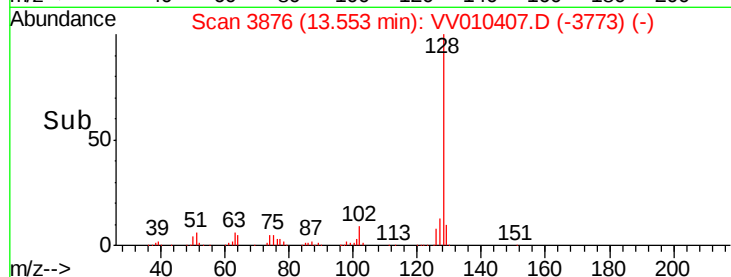
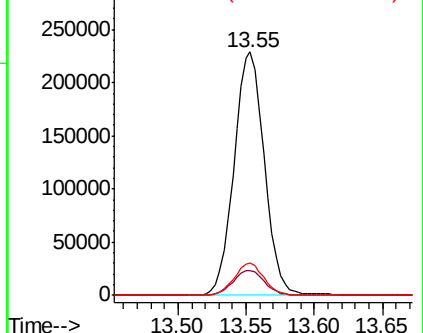
127 12.9 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 21.958 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010407.D

Acq: 20 Apr 2019 02:21

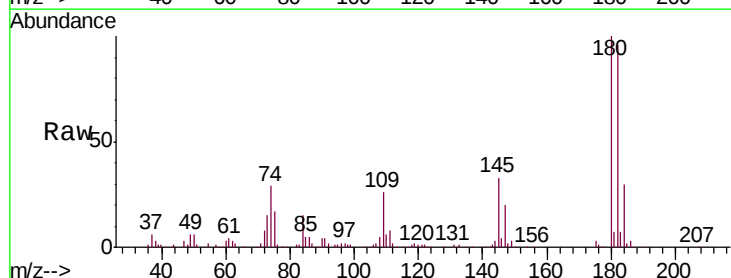
Tgt Ion:180 Resp: 173417

Ion Ratio Lower Upper

180 100

182 95.2 77.4 116.0

145 34.1 25.1 37.7



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

