

Data File : VV009206.D
Acq On : 09 Jan 2019 09:47
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00 G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB71

Quant Time: Jan 10 05:42:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010819S.M
Quant Title : VOC Analysis
QLast Update : Wed Jan 09 00:40:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	287452	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	259490	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	130520	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	62182	23.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.48%
7) Chloroethane-d5	1.58	69	49872	21.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.32%
10) 1,1-Dichloroethene-d2	2.13	63	161767	22.50	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	90.00%
20) 2-Butanone-d5	3.96	46	40037	35.10	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	70.20%
24) Chloroform-d	4.40	84	144788	21.65	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	86.60%
26) 1,2-Dichloroethane-d4	5.08	65	76400	21.00	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	84.00%
29) Benzene-d6	5.10	84	295228	22.69	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.76%
33) 1,2-Dichloropropane-d6	6.12	67	82220	22.07	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	88.28%
37) Toluene-d8	7.36	98	273071	22.18	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.72%
38) trans-1,3-Dichloropropene-	7.66	79	39693	21.68	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.72%
39) 2-Hexanone-d5	8.14	63	23961	35.22	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	70.44%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	73936	20.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	81.60%
61) 1,2-Dichlorobenzene-d4	11.67	152	103830	21.16	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	84.64%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	103218	22.166	ug/L	100
3) Chloromethane	1.25	50	70011	22.858	ug/L	98
5) Vinyl chloride	1.32	62	74706	23.640	ug/L	99
6) Bromomethane	1.54	94	47175	20.389	ug/L	99
8) Chloroethane	1.60	64	45500	22.467	ug/L	99
9) Trichlorofluoromethane	1.77	101	129075	21.807	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	83498	22.040	ug/L	99
12) 1,1-Dichloroethene	2.14	96	73381	22.174	ug/L	89
13) Acetone	2.22	43	96626	56.768	ug/L	99
14) Carbon disulfide	2.32	76	295331	26.479	ug/L	99
15) Methyl Acetate	2.47	43	50395	24.462	ug/L	96
16) Methylene chloride	2.53	84	95362	22.951	ug/L	99
17) Methyl tert-butyl Ether	2.81	73	186816	21.369	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	84176	22.369	ug/L	99
19) 1,1-Dichloroethane	3.23	63	134364	22.184	ug/L	99
21) 2-Butanone	4.04	43	65223	39.332	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	87845	22.141	ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	40734	21.573	ug/L	93
25) Chloroform	4.42	83	141241	21.755	ug/L	99
27) 1,2-Dichloroethane	5.18	62	96101	21.794	ug/L	97
30) Cyclohexane	4.72	56	130736	23.318	ug/L	100
31) 1,1,1-Trichloroethane	4.66	97	134940	22.744	ug/L	99
32) Carbon tetrachloride	4.87	117	123315	22.692	ug/L	98
34) Benzene	5.15	78	308819	22.604	ug/L	100
35) Trichloroethene	5.96	95	90107	23.107	ug/L	98
36) Methylcyclohexane	6.18	83	151458	23.003	ug/L	99
40) 1,2-Dichloropropane	6.22	63	73947	22.224	ug/L	99
41) Bromodichloromethane	6.55	83	100369	21.935	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	120438	23.039	ug/L	99
43) 4-Methyl-2-pentanone	7.28	43	105751	40.432	ug/L	98
44) Toluene	7.43	91	334580	22.805	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	101421	22.035	ug/L	95
46) 1,1,2-Trichloroethane	7.88	97	62424	21.521	ug/L	99
47) Tetrachloroethene	8.02	164	75780	22.531	ug/L	98
49) 2-Hexanone	8.19	43	87843	42.412	ug/L	97
50) Dibromochloromethane	8.29	129	78076	22.071	ug/L	96
51) 1,2-Dibromoethane	8.40	107	63867	21.570	ug/L	99
52) Chlorobenzene	8.92	112	223888	22.196	ug/L	99
53) Ethylbenzene	9.05	91	374327	22.583	ug/L	99
54) m,p-Xylene	9.18	106	143489	22.407	ug/L	98
55) o-xylene	9.59	106	136616	22.427	ug/L	100
56) Styrene	9.60	104	230188	22.716	ug/L	99
57) Isopropylbenzene	9.97	105	372949	22.538	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	76105	21.014	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	57101	19.999	ug/L	97
62) Bromoform	9.78	173	45855	20.748	ug/L	97
63) 1,3-Dichlorobenzene	11.23	146	175874	21.546	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	181053	21.767	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	169054	21.937	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	13420	19.421	ug/L	91
67) 1,3,5-Trichlorobenzene	12.69	180	142179	21.879	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	115200	21.885	ug/L	99
69) Naphthalene	13.55	128	199710	19.706	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	105629	21.979	ug/L	98

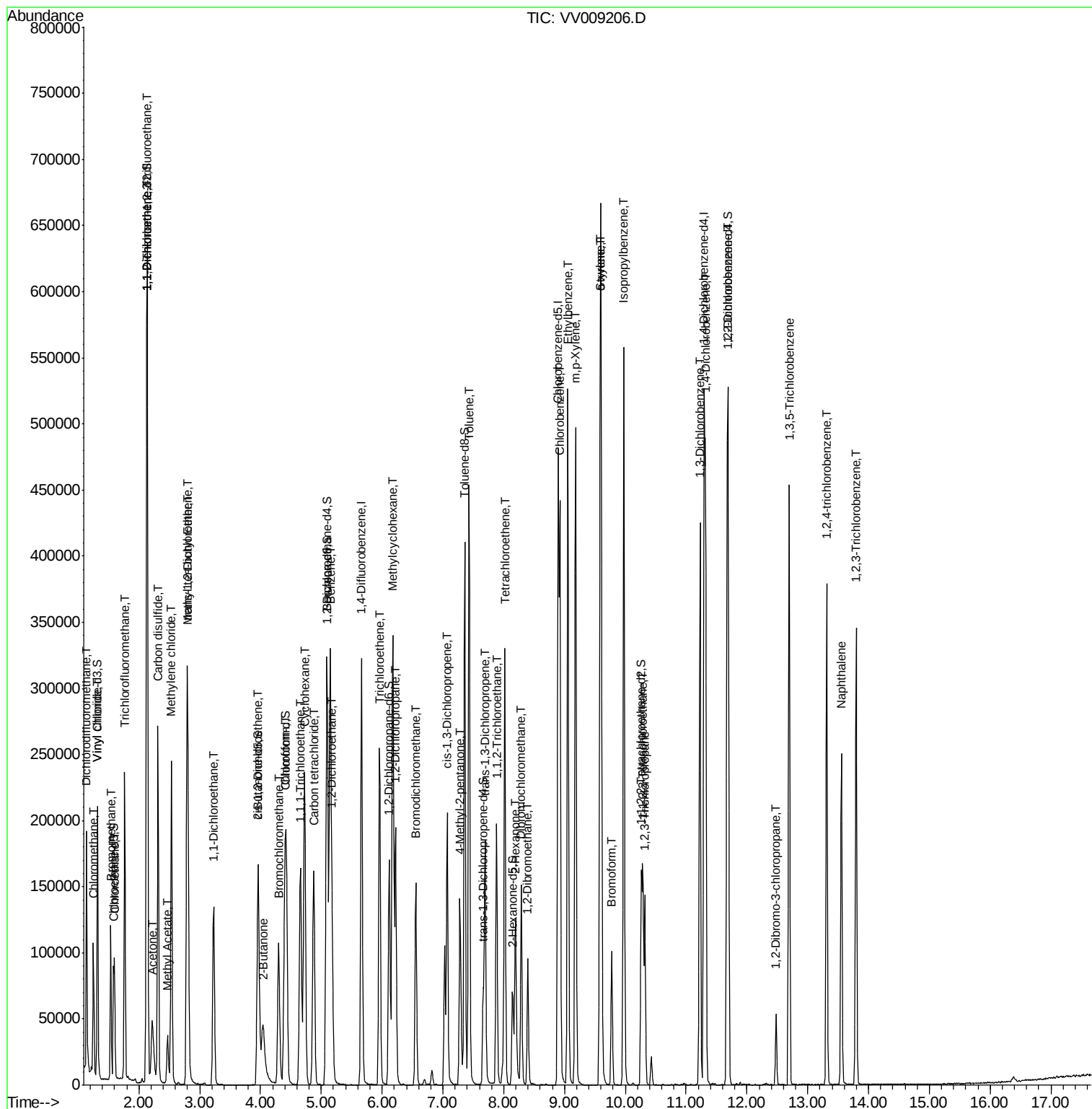
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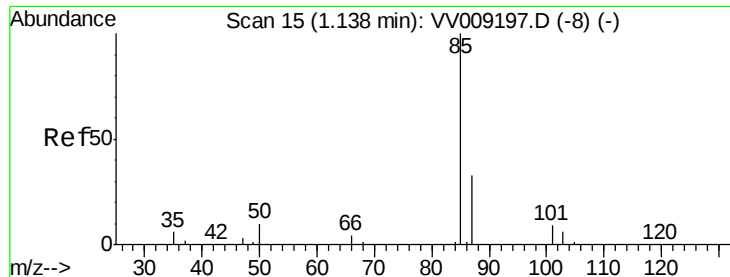
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#2

Dichlorodifluoromethane

Concen: 22.166 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

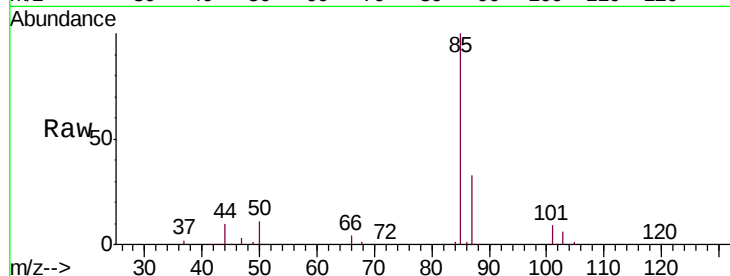
BFB71

Tgt Ion: 85 Resp: 103218

Ion Ratio Lower Upper

85 100

87 32.6 23.0 42.6



Abundance Ion 85.00 (84.70 to 85.70): VV009197.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009197.D (-8) (-)

1.14

100000

80000

60000

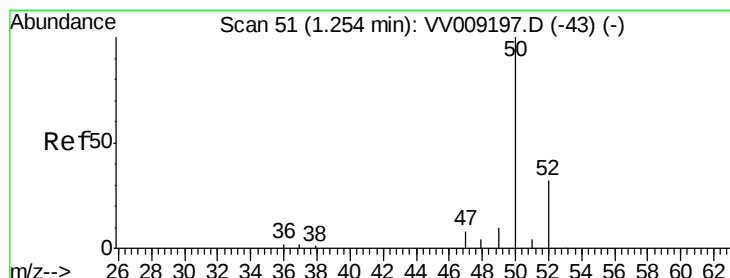
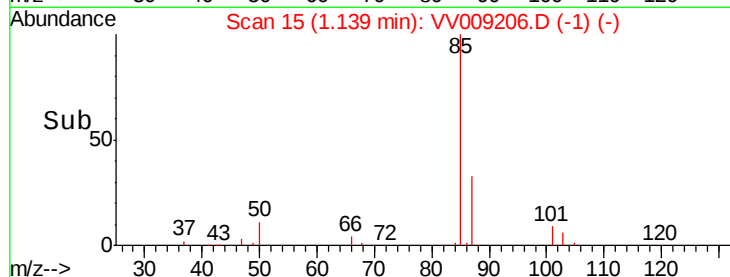
40000

20000

0

1.10 1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 22.858 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009206.D

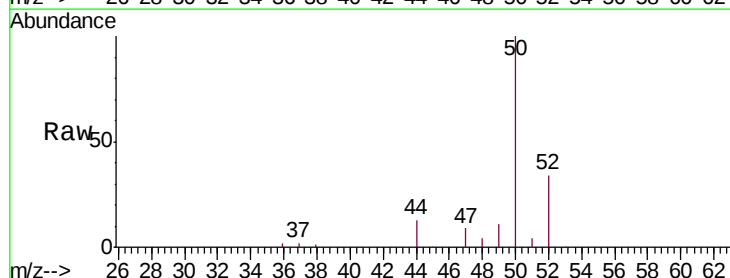
Acq: 09 Jan 2019 09:47

Tgt Ion: 50 Resp: 70011

Ion Ratio Lower Upper

50 100

52 33.6 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV009197.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009197.D (-43) (-)

1.25

60000

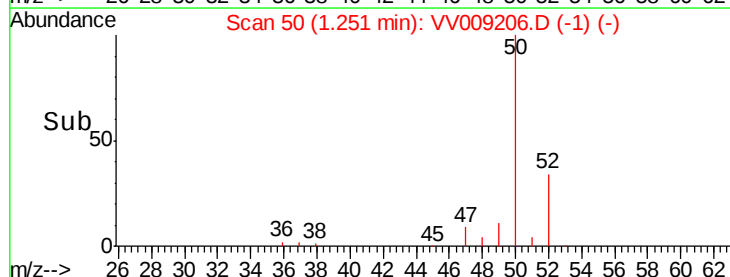
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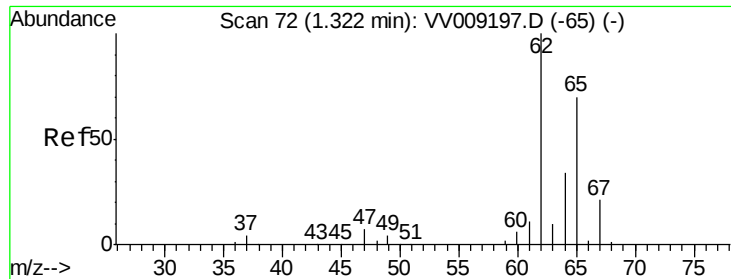
20000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 23.640 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampled :

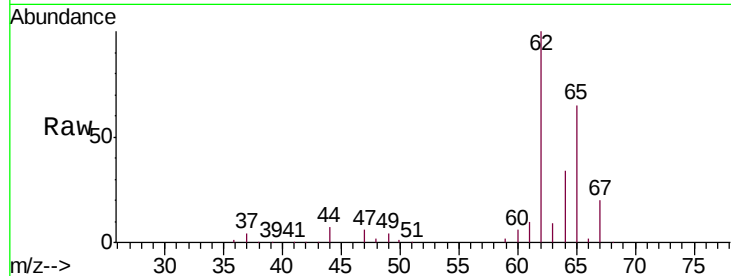
BFB71

Tgt Ion: 62 Resp: 74706

Ion Ratio Lower Upper

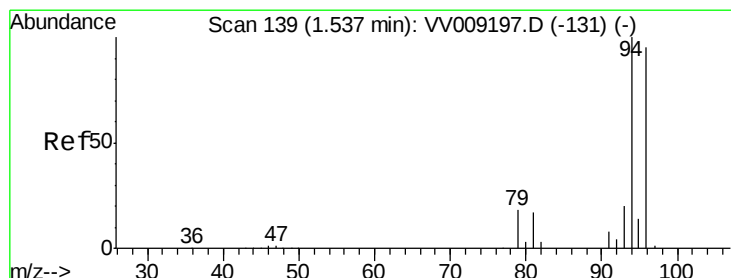
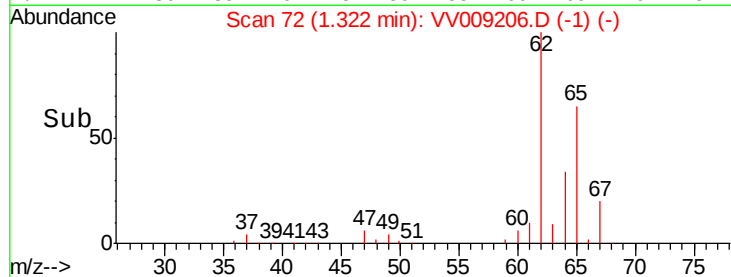
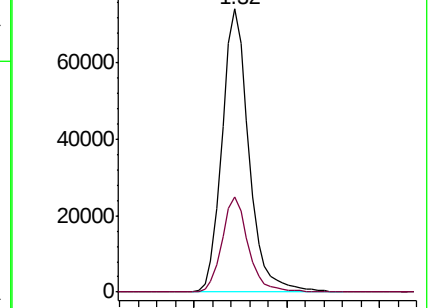
62 100

64 33.6 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 20.389 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV009206.D

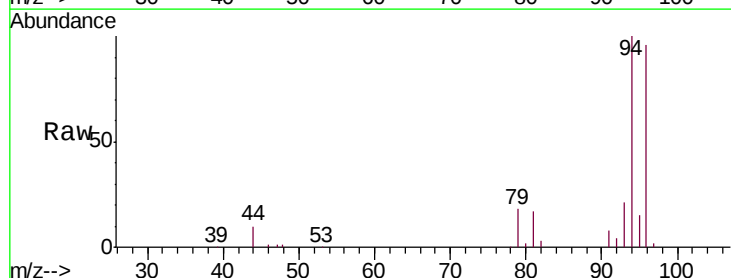
Acq: 09 Jan 2019 09:47

Tgt Ion: 94 Resp: 47175

Ion Ratio Lower Upper

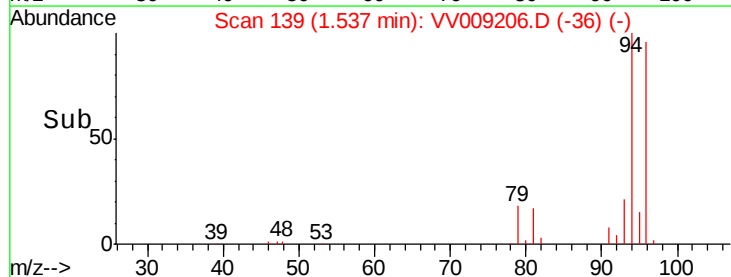
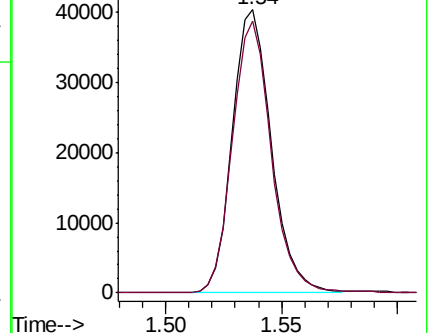
94 100

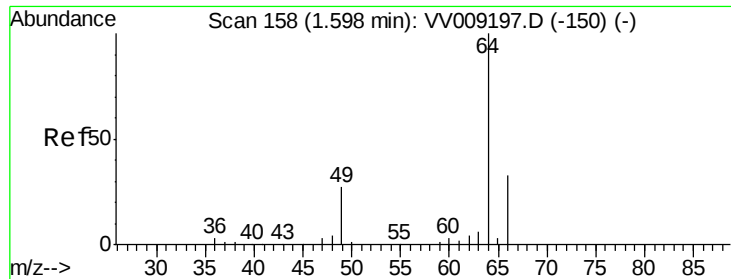
96 95.6 9.6 183.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 22.467 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

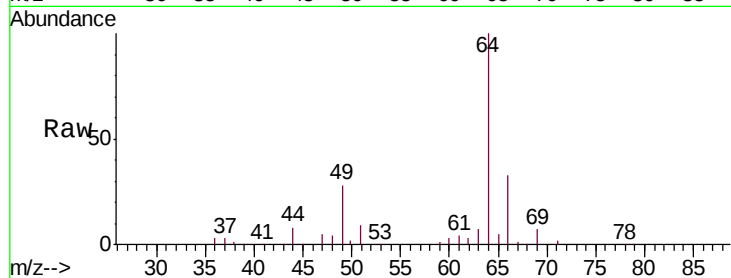
BFB71

Tgt Ion: 64 Resp: 45500

Ion Ratio Lower Upper

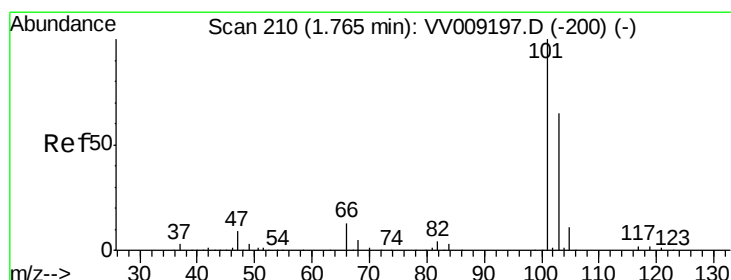
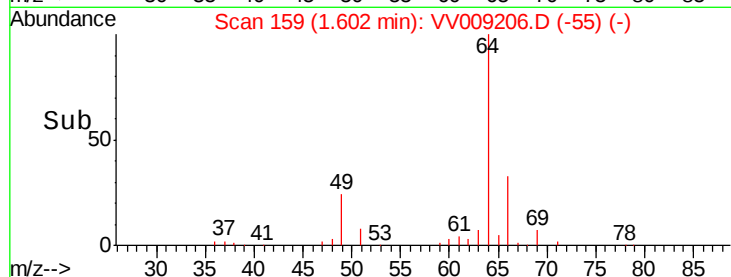
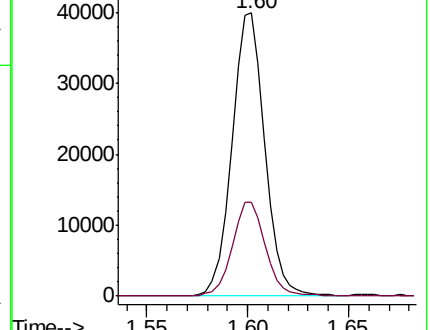
64 100

66 33.3 22.7 42.3



Abundance Ion 64.00 (63.70 to 64.70): VV009197.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV009197.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 21.807 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV009206.D

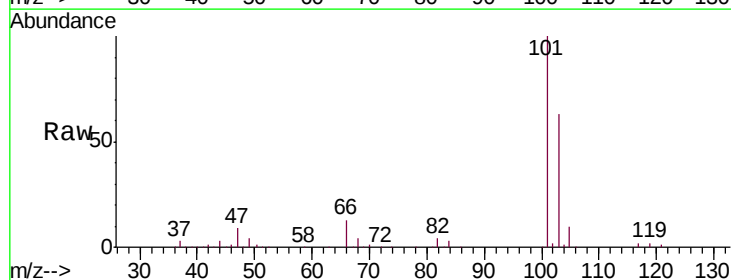
Acq: 09 Jan 2019 09:47

Tgt Ion: 101 Resp: 129075

Ion Ratio Lower Upper

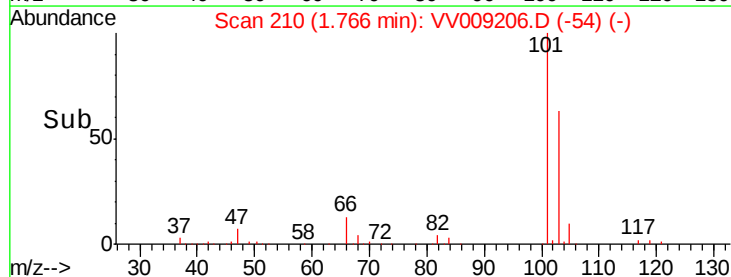
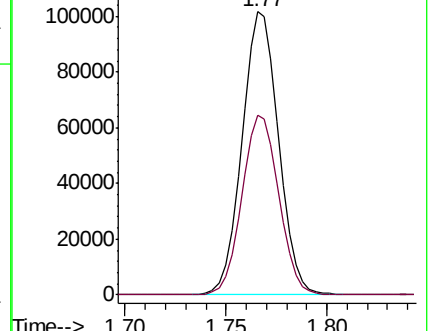
101 100

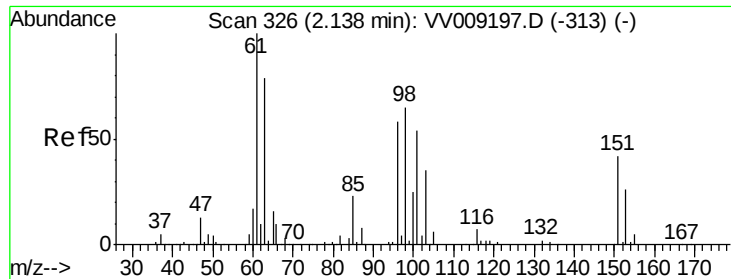
103 64.1 45.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): VV009197.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV009197.D (-200) (-)





#11

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

Concen: 22.040 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

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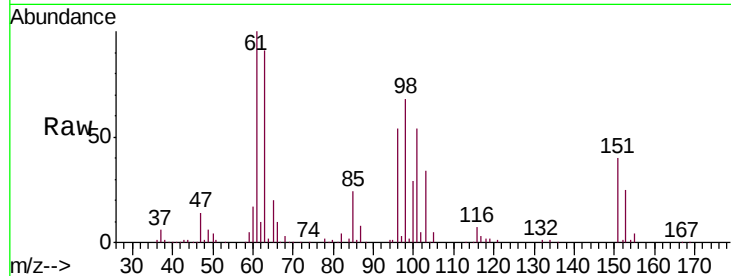
Tgt Ion:101 Resp: 83498

Ion Ratio Lower Upper

101 100

85 44.1 35.2 52.8

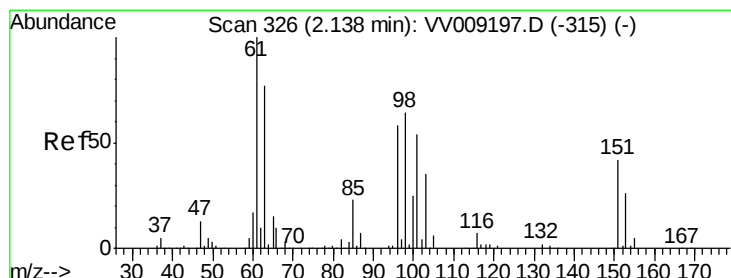
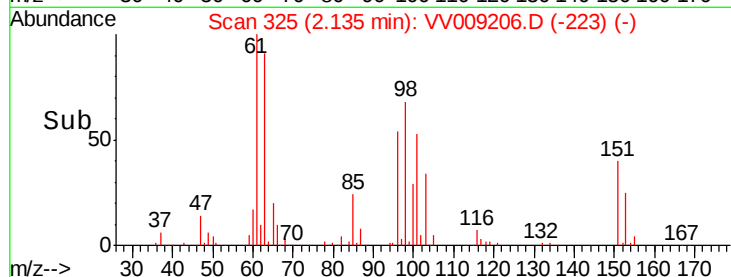
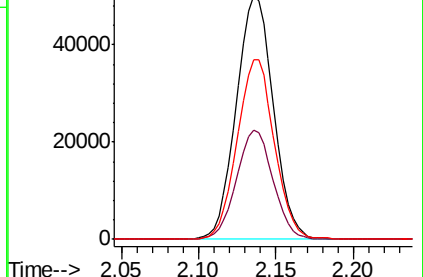
151 73.7 59.4 89.2



Abundance Ion 101.00 (100.70 to 101.70): VV009197.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV009197.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV009197.D (-313) (-)



#12

1,1-Dichloroethene

Concen: 22.174 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

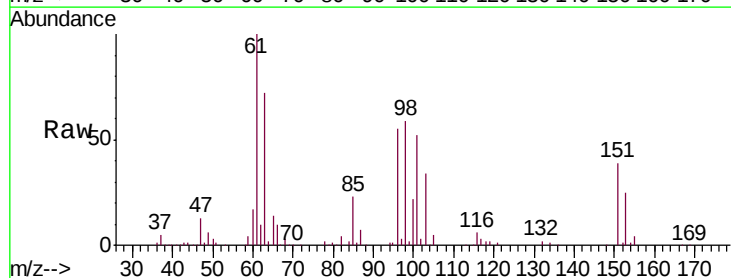
Tgt Ion: 96 Resp: 73381

Ion Ratio Lower Upper

96 100

61 180.9 130.3 241.9

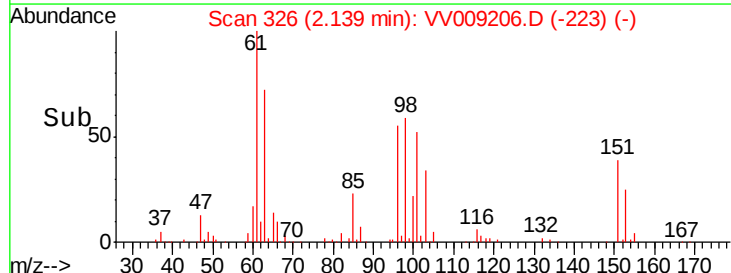
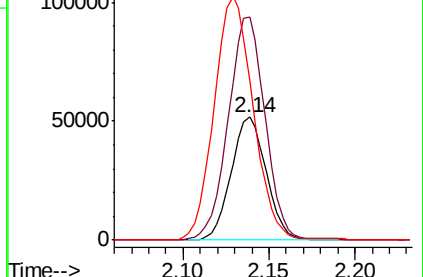
63 129.6 107.8 200.2

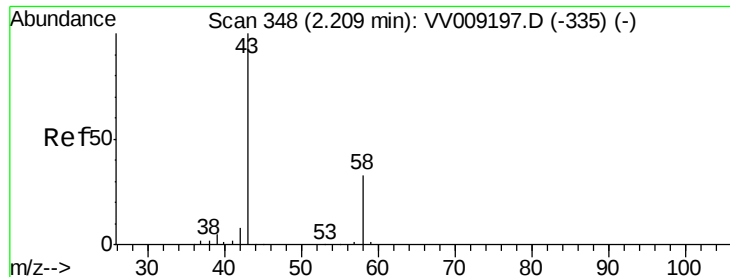


Abundance Ion 96.00 (95.70 to 96.70): VV009197.D (-315) (-)

Ion 61.00 (60.70 to 61.70): VV009197.D (-315) (-)

Ion 63.00 (62.70 to 63.70): VV009197.D (-315) (-)





#13

Acetone

Concen: 56.768 ug/L

RT: 2.22 min Scan# 351

Delta R.T. 0.01 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

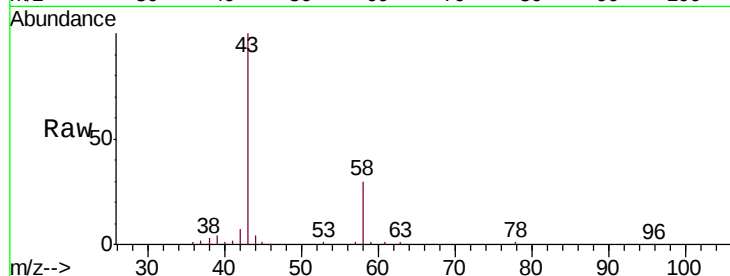
BFB71

Tgt Ion: 43 Resp: 96626

Ion Ratio Lower Upper

43 100

58 29.2 0.0 57.8



Abundance Ion 43.00 (42.70 to 43.70): VV009197.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VV009197.D (-335) (-)

2.22

30000

20000

10000

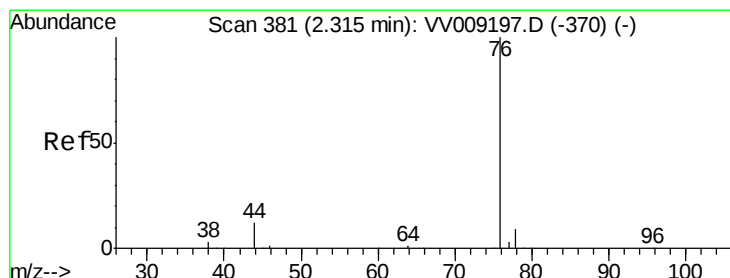
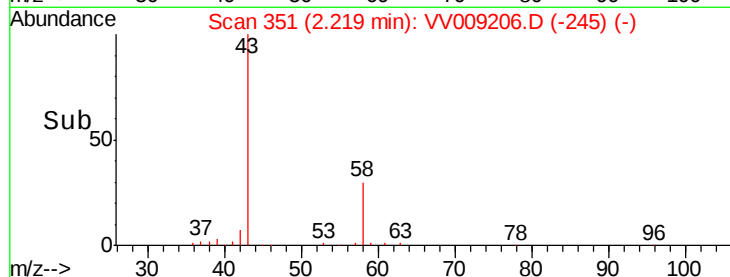
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Time-->

2.10

2.20

2.30



#14

Carbon disulfide

Concen: 26.479 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009206.D

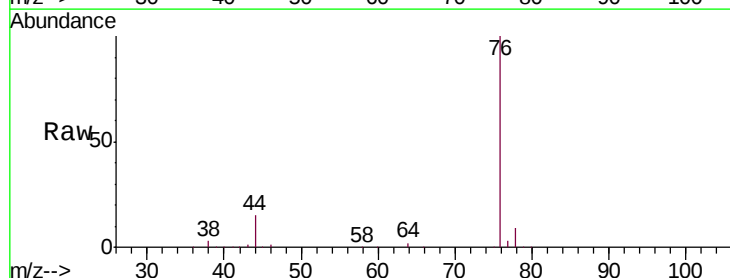
Acq: 09 Jan 2019 09:47

Tgt Ion: 76 Resp: 295331

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009197.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV009197.D (-370) (-)

2.32

200000

150000

100000

50000

0

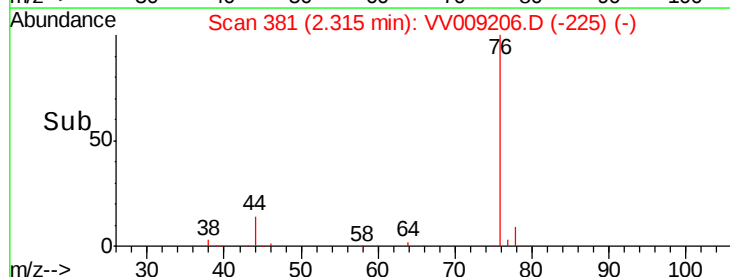
Time-->

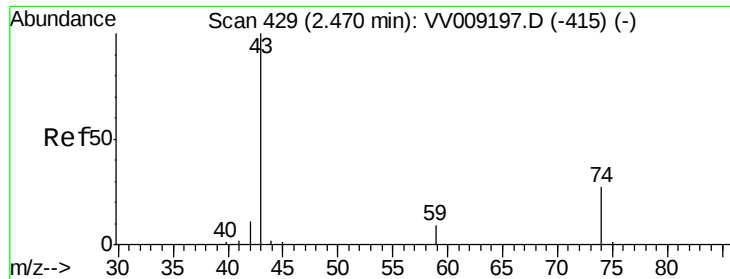
2.25

2.30

2.35

2.40

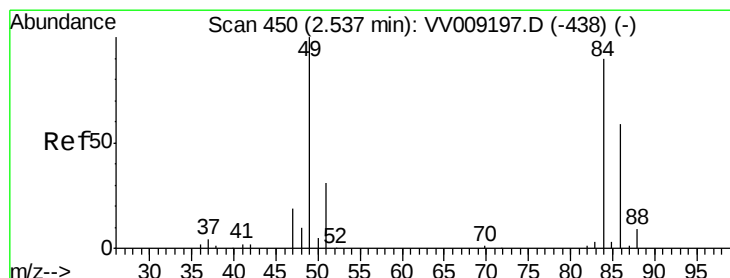
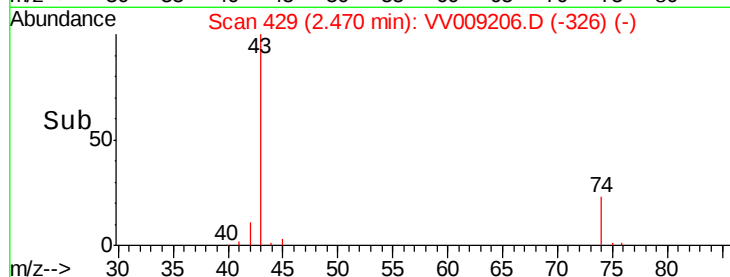
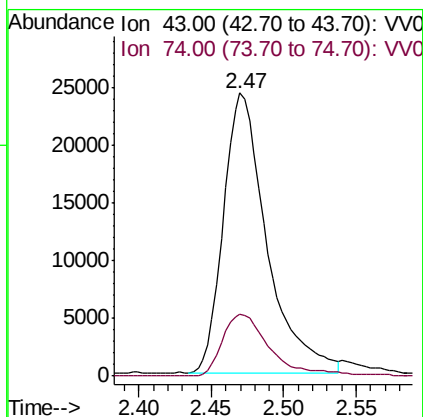
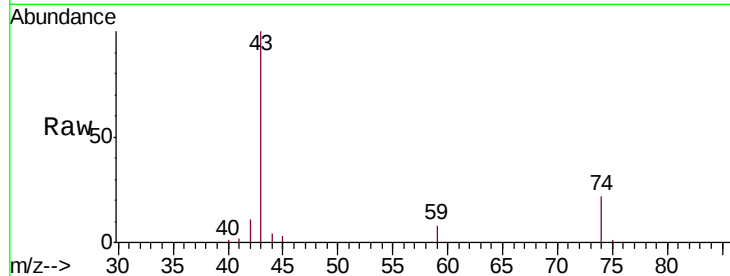




#15
Methyl Acetate
Concen: 24.462 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

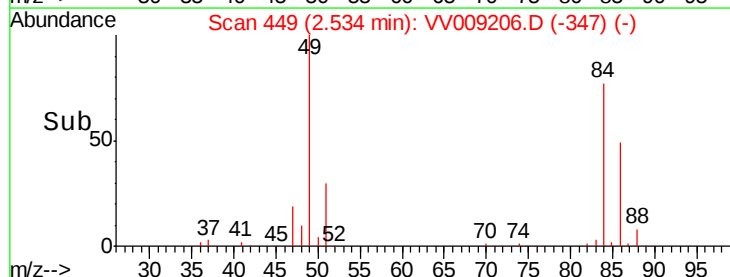
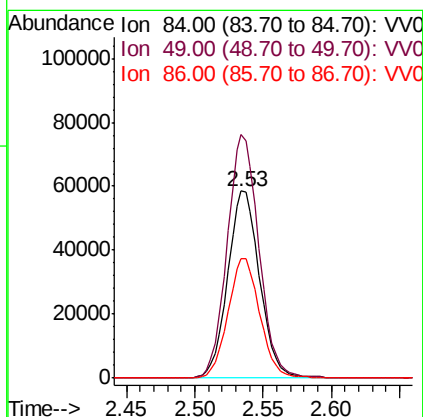
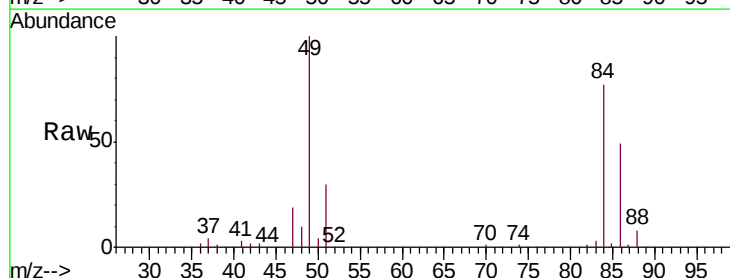
Instrument :
MSVOA_V
ClientSampled :
BFB71

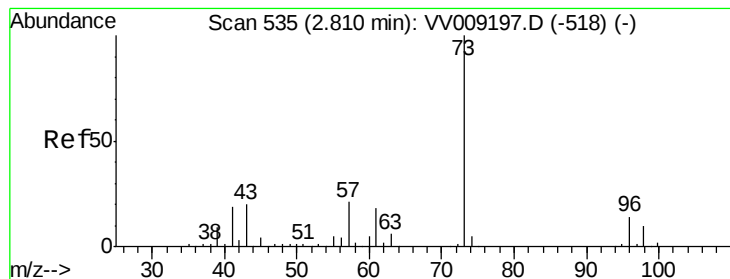
Tgt Ion: 43 Resp: 50395
Ion Ratio Lower Upper
43 100
74 24.3 17.8 26.8



#16
Methylene chloride
Concen: 22.951 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

Tgt Ion: 84 Resp: 95362
Ion Ratio Lower Upper
84 100
49 130.2 92.0 170.9
86 64.2 44.9 83.3





#17

Methyl tert-butyl Ether

Concen: 21.369 ug/L

RT: 2.81 min Scan# 534

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

BFB71

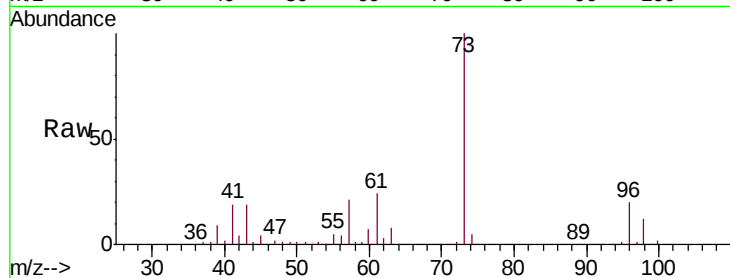
Tgt Ion: 73 Resp: 186816

Ion Ratio Lower Upper

73 100

43 19.2 15.4 23.0

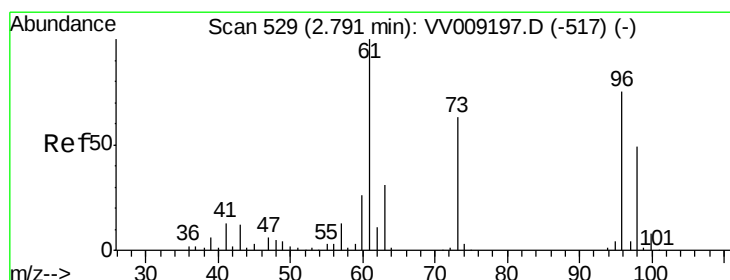
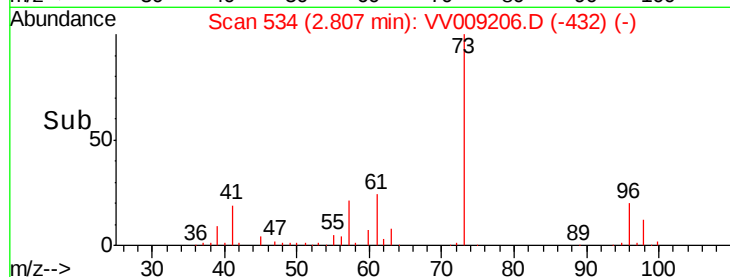
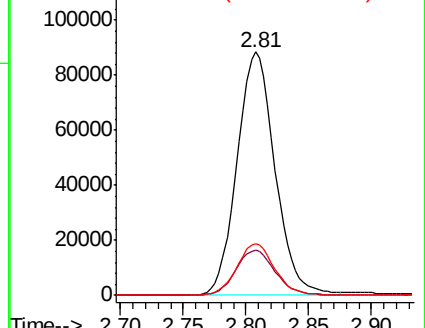
57 21.1 16.4 24.6



Abundance Ion 73.00 (72.70 to 73.70): VV009197.D (-518) (-)

Ion 43.00 (42.70 to 43.70): VV009197.D (-518) (-)

Ion 57.00 (56.70 to 57.70): VV009197.D (-518) (-)



#18

trans-1,2-Dichloroethene

Concen: 22.369 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

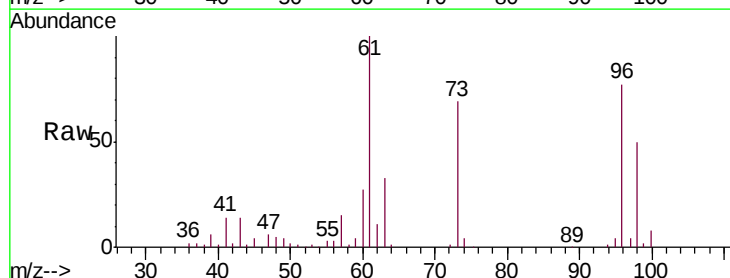
Tgt Ion: 96 Resp: 84176

Ion Ratio Lower Upper

96 100

61 129.6 91.3 169.5

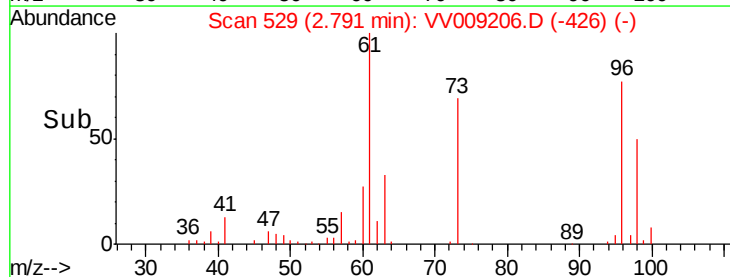
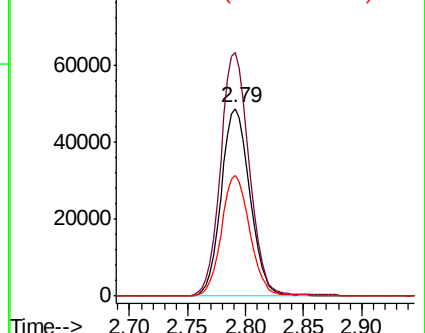
98 64.3 44.6 82.8

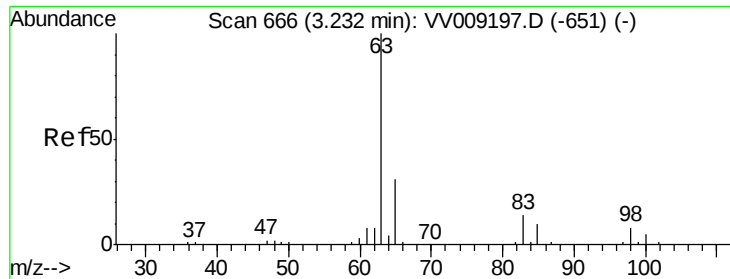


Abundance Ion 96.00 (95.70 to 96.70): VV009197.D (-517) (-)

Ion 61.00 (60.70 to 61.70): VV009197.D (-517) (-)

Ion 98.00 (97.70 to 98.70): VV009197.D (-517) (-)

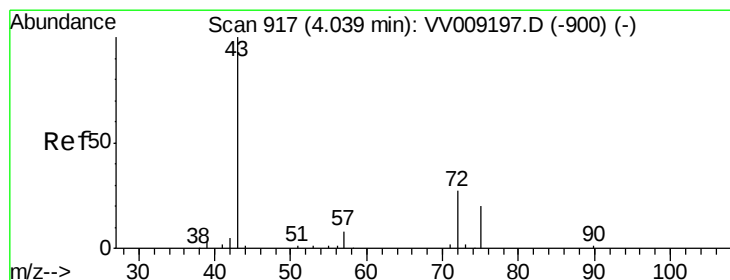
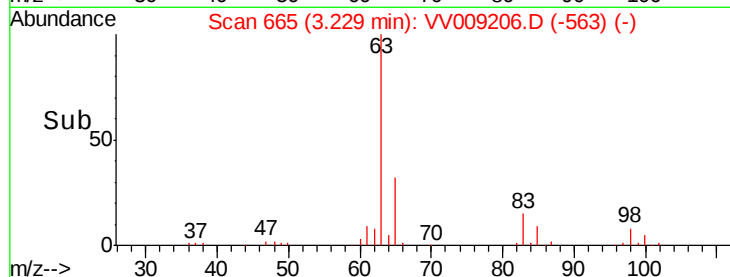
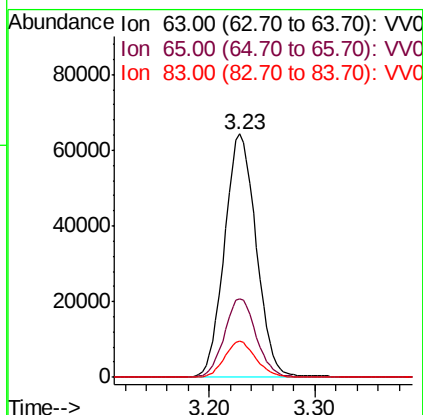
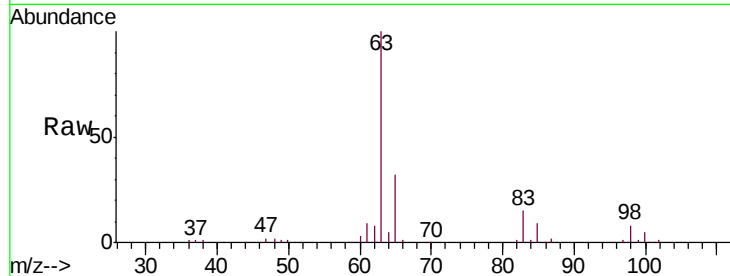




#19
 1,1-Dichloroethane
 Concen: 22.184 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009206.D
 Acq: 09 Jan 2019 09:47

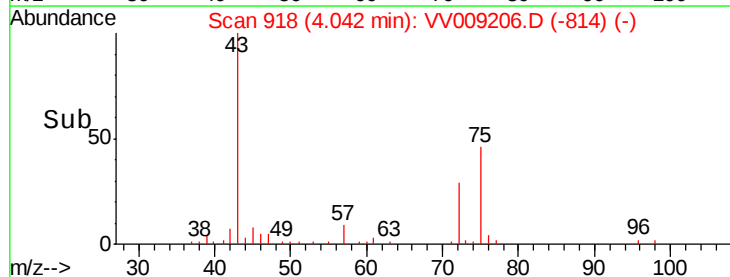
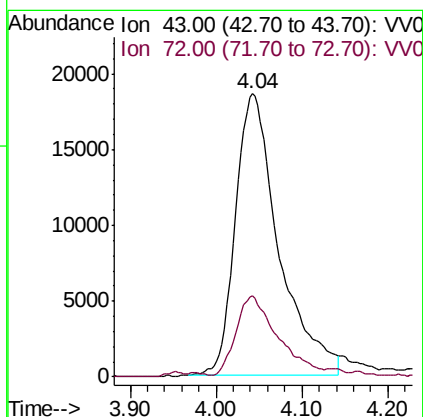
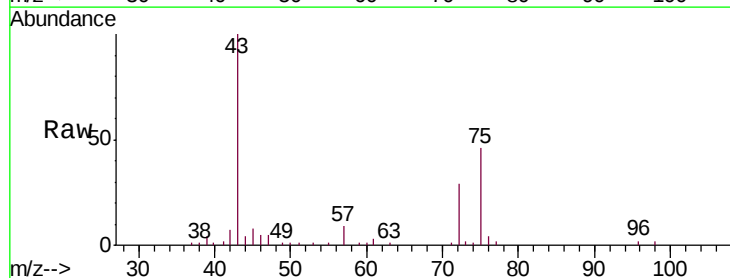
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB71

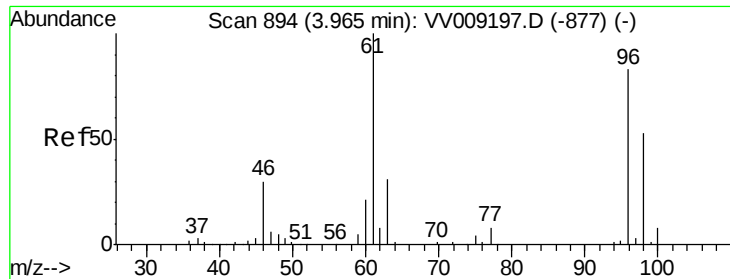
Tgt Ion: 63 Resp: 134364
 Ion Ratio Lower Upper
 63 100
 65 32.4 23.0 42.6
 83 14.7 10.1 18.9



#21
 2-Butanone
 Concen: 39.332 ug/L
 RT: 4.04 min Scan# 918
 Delta R.T. 0.00 min
 Lab File: VV009206.D
 Acq: 09 Jan 2019 09:47

Tgt Ion: 43 Resp: 65223
 Ion Ratio Lower Upper
 43 100
 72 26.6 12.9 38.6



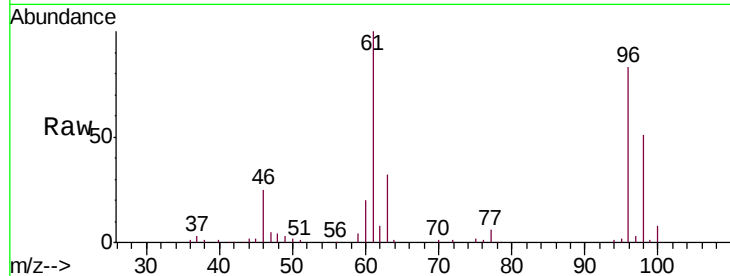


#22

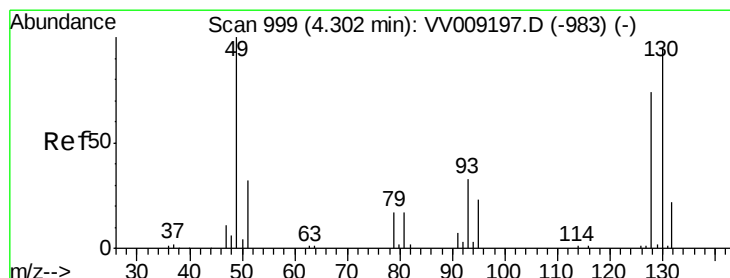
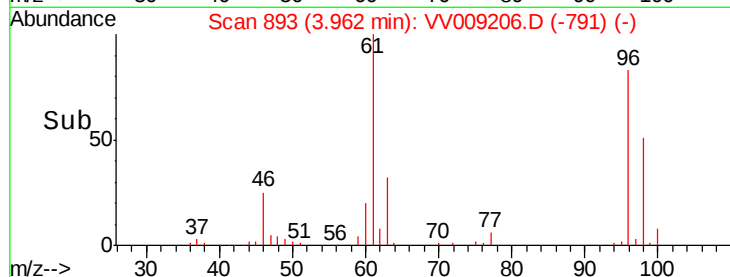
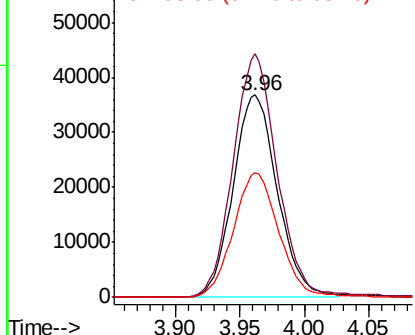
cis-1,2-Dichloroethene
Concen: 22.141 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

Instrument :
MSVOA_V
ClientSampleId :
BFB71

Tgt Ion: 96 Resp: 87845
Ion Ratio Lower Upper
96 100
61 120.5 82.2 152.6
98 61.9 45.1 83.9



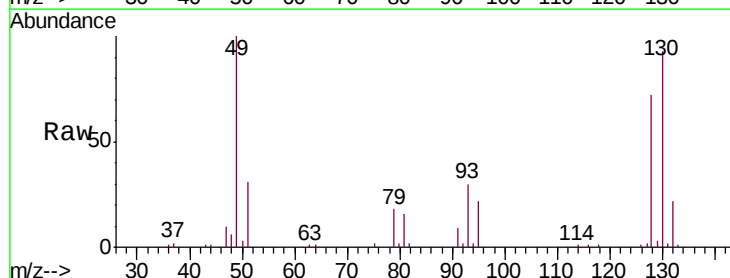
Abundance Ion 96.00 (95.70 to 96.70): VV009197.D (-877) (-)
Ion 61.00 (60.70 to 61.70): VV009197.D (-877) (-)
Ion 98.00 (97.70 to 98.70): VV009197.D (-877) (-)



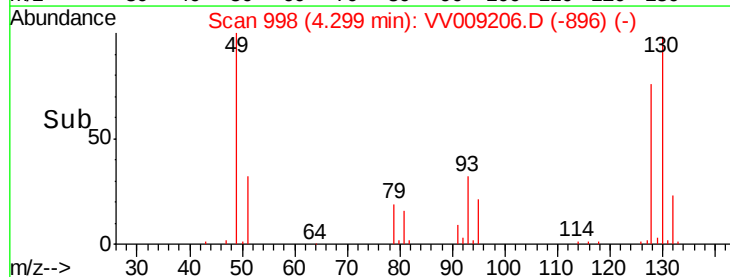
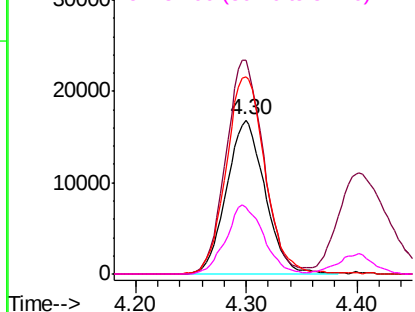
#23

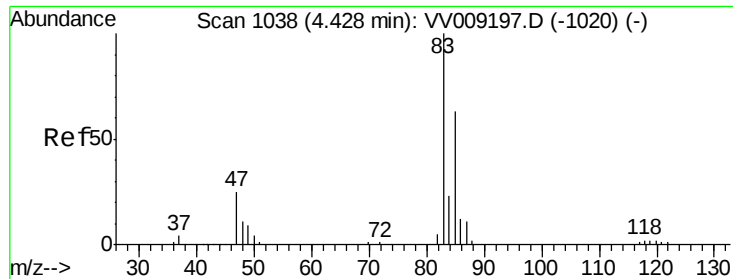
Bromochloromethane
Concen: 21.573 ug/L
RT: 4.30 min Scan# 998
Delta R.T. -0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

Tgt Ion: 128 Resp: 40734
Ion Ratio Lower Upper
128 100
49 138.9 89.2 165.6
130 128.6 85.9 159.5
51 43.6 32.6 48.8



Abundance Ion 128.00 (127.70 to 128.70): VV009197.D (-983) (-)
Ion 49.00 (48.70 to 49.70): VV009197.D (-983) (-)
Ion 130.00 (129.70 to 130.70): VV009197.D (-983) (-)
Ion 51.00 (50.70 to 51.70): VV009197.D (-983) (-)

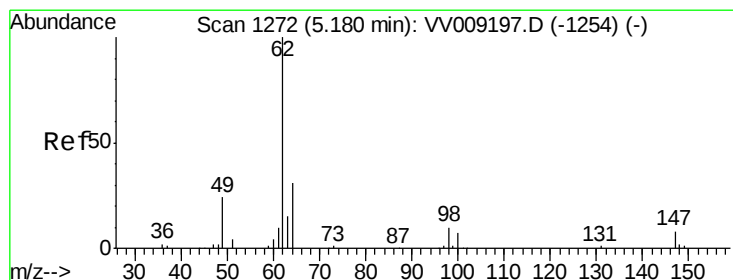
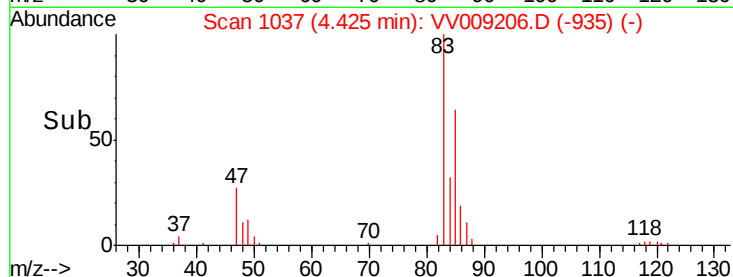
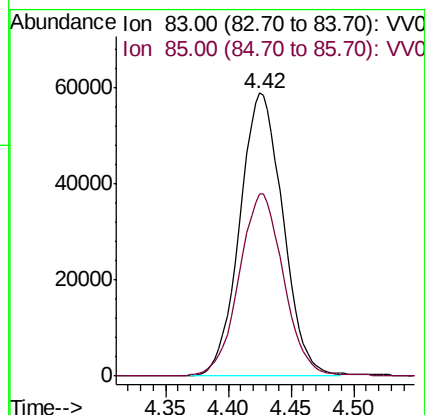
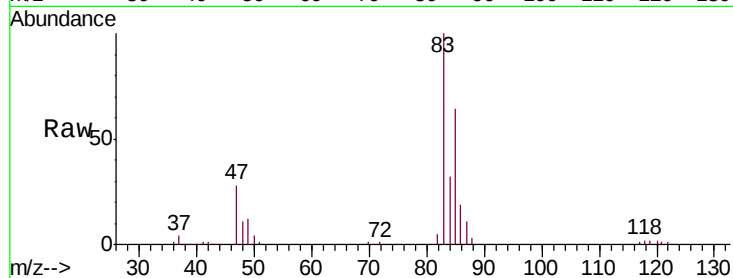




#25
Chloroform
Concen: 21.755 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

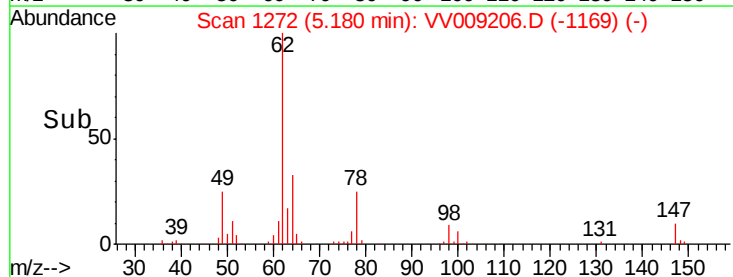
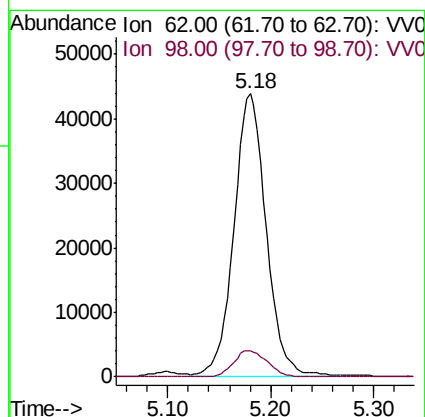
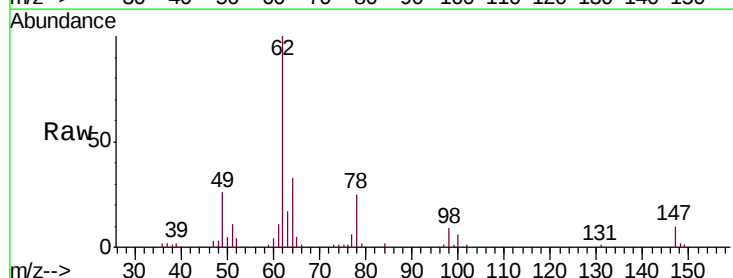
Instrument :
MSVOA_V
ClientSampleId :
BFB71

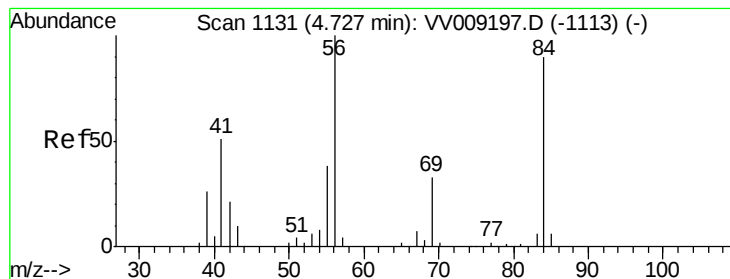
Tgt Ion: 83 Resp: 141241
Ion Ratio Lower Upper
83 100
85 66.4 46.2 85.8



#27
1,2-Dichloroethane
Concen: 21.794 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

Tgt Ion: 62 Resp: 96101
Ion Ratio Lower Upper
62 100
98 9.2 8.2 12.2





#30

Cyclohexane

Concen: 23.318 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

BFB71

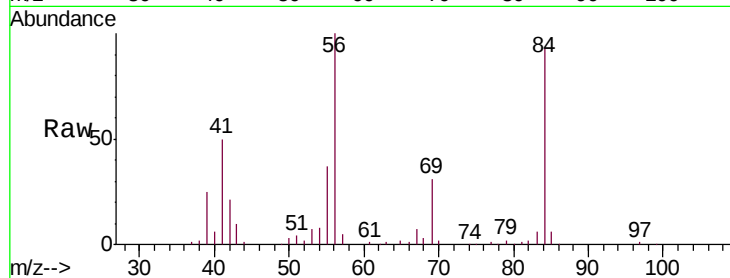
Tgt Ion: 56 Resp: 130736

Ion Ratio Lower Upper

56 100

69 32.3 25.9 38.9

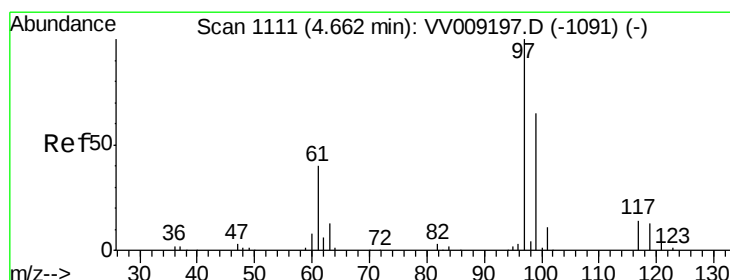
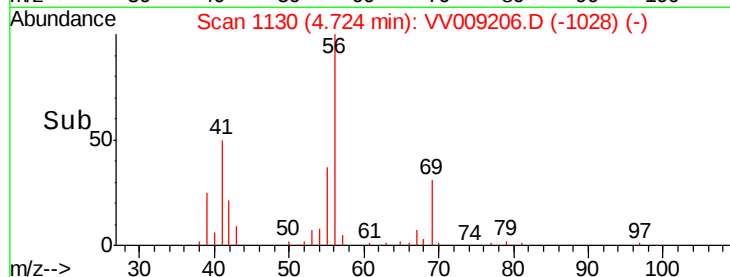
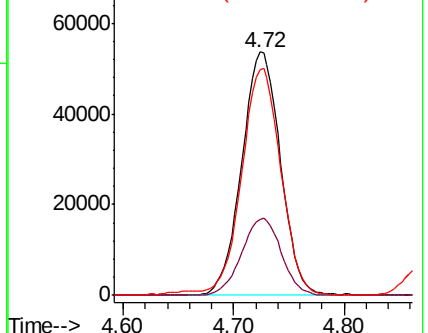
84 94.1 75.6 113.4



Abundance Ion 56.00 (55.70 to 56.70): VV009197.D (-1113) (-)

Ion 69.00 (68.70 to 69.70): VV009197.D (-1113) (-)

Ion 84.00 (83.70 to 84.70): VV009197.D (-1113) (-)



#31

1,1,1-Trichloroethane

Concen: 22.744 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

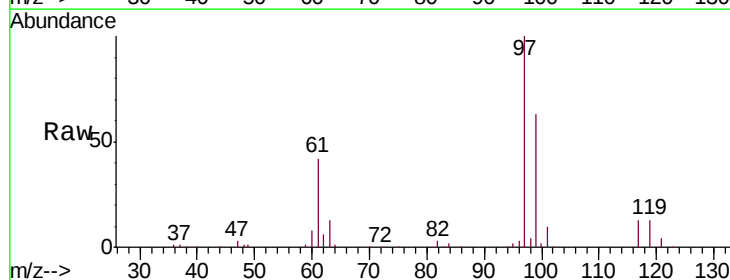
Tgt Ion: 97 Resp: 134940

Ion Ratio Lower Upper

97 100

99 63.8 51.3 76.9

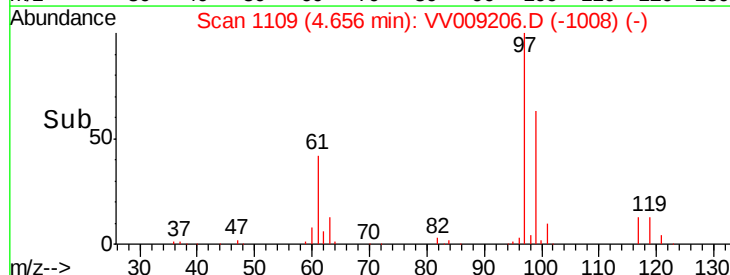
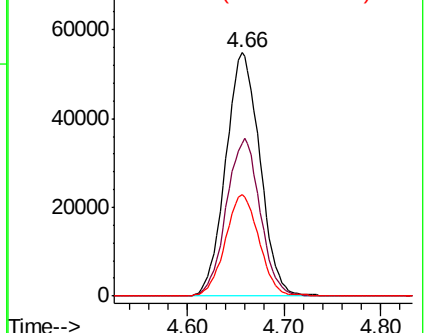
61 40.9 32.1 48.1

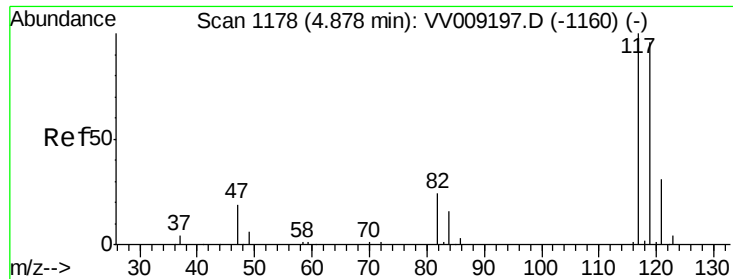


Abundance Ion 97.00 (96.70 to 97.70): VV009197.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV009197.D (-1091) (-)

Ion 61.00 (60.70 to 61.70): VV009197.D (-1091) (-)





#32

Carbon tetrachloride

Concen: 22.692 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

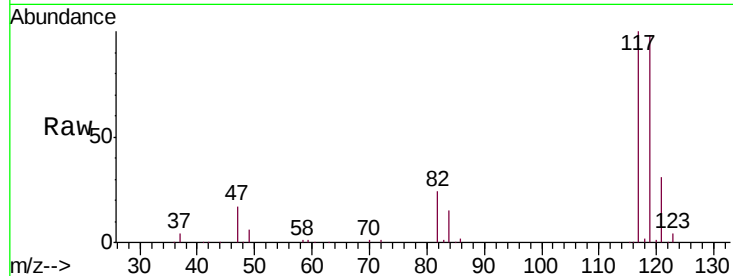
BFB71

Tgt Ion:117 Resp: 123315

Ion Ratio Lower Upper

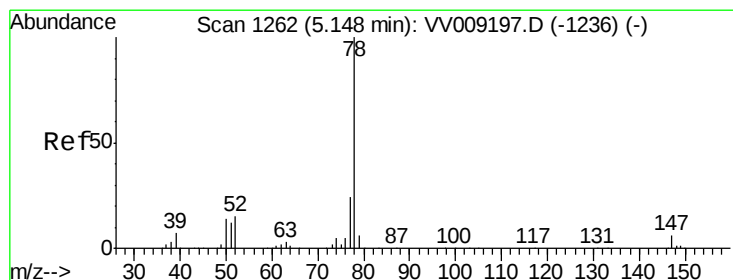
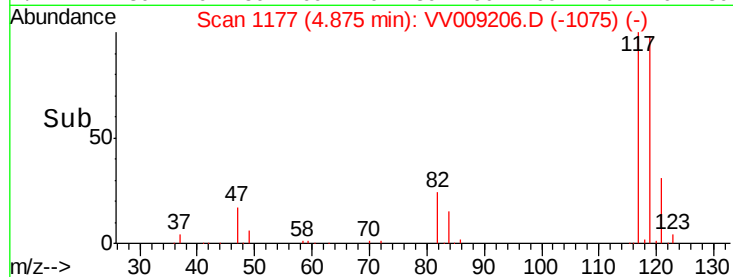
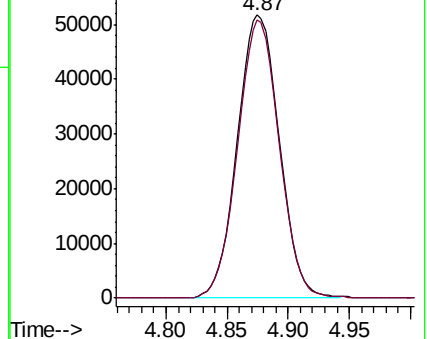
117 100

119 97.0 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 22.604 ug/L

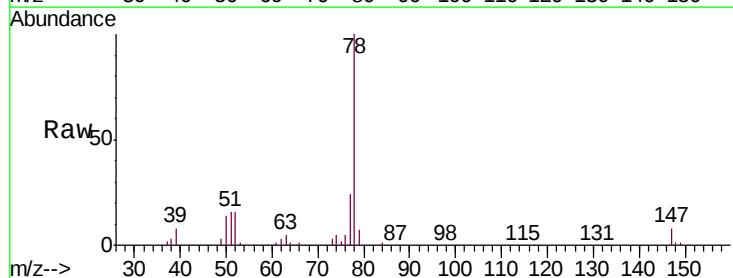
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

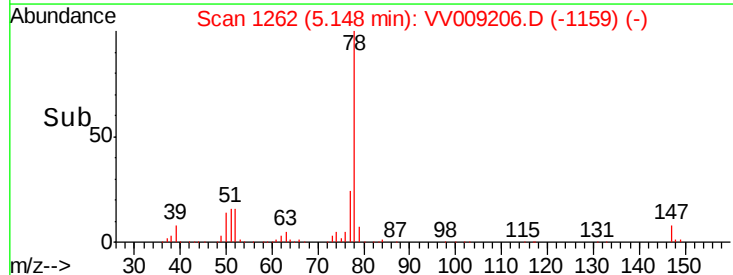
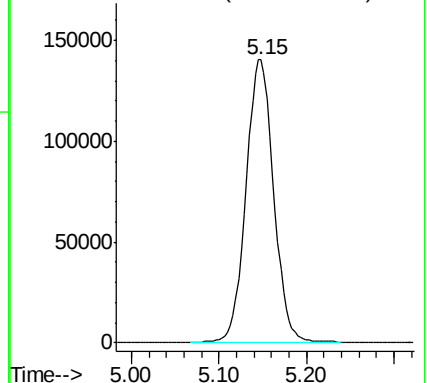
Lab File: VV009206.D

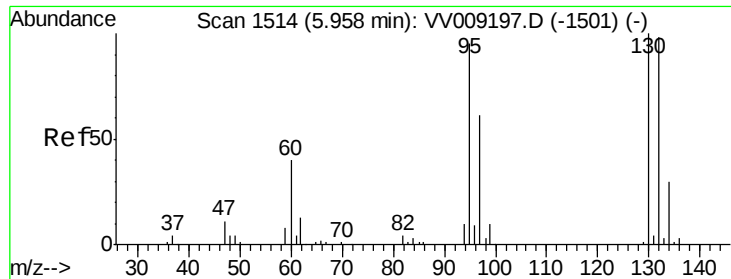
Acq: 09 Jan 2019 09:47

Tgt Ion: 78 Resp: 308819



Abundance Ion 78.00 (77.70 to 78.70): VV0

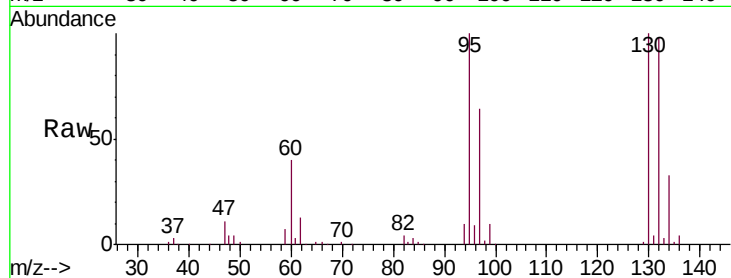




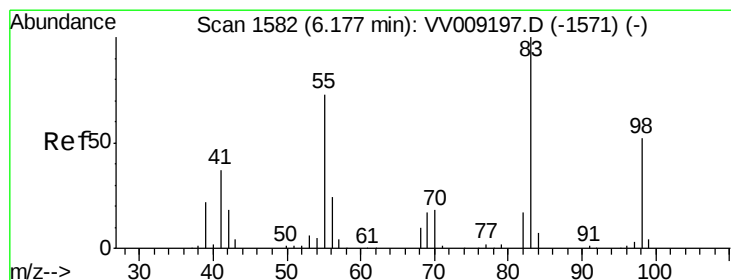
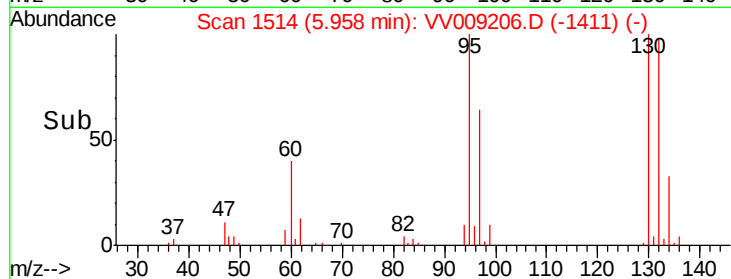
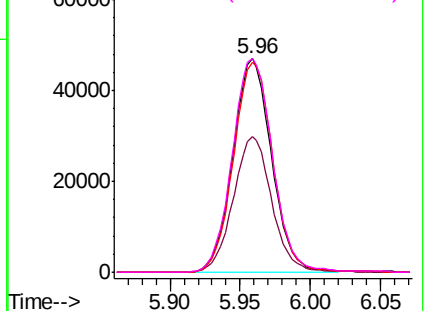
#35
 Trichloroethene
 Concen: 23.107 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV009206.D
 Acq: 09 Jan 2019 09:47

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB71

Tgt Ion: 95 Resp: 90107
 Ion Ratio Lower Upper
 95 100
 97 63.1 44.7 82.9
 132 99.8 71.2 132.2
 130 104.6 74.4 138.2

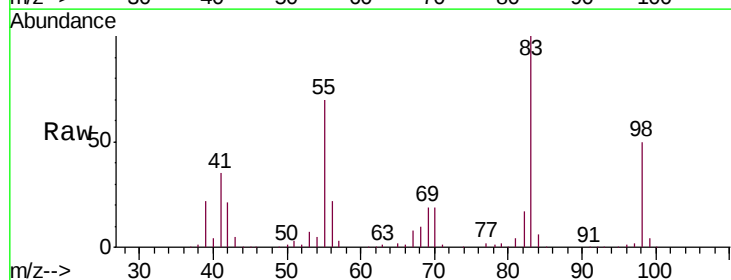


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

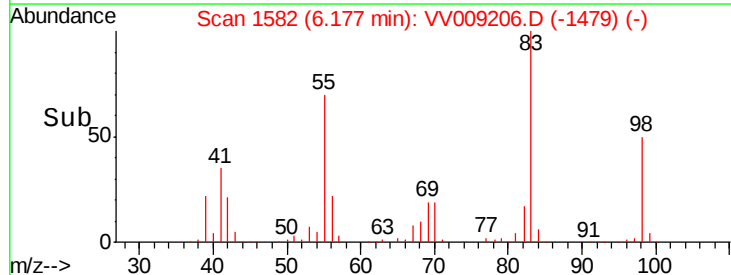
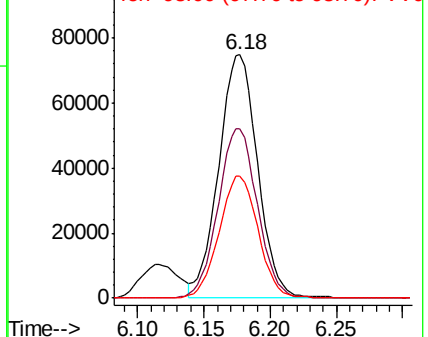


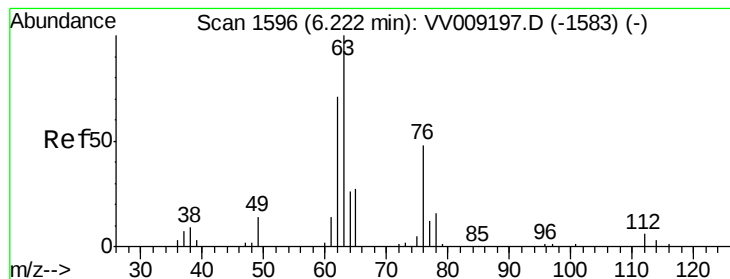
#36
 Methylcyclohexane
 Concen: 23.003 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV009206.D
 Acq: 09 Jan 2019 09:47

Tgt Ion: 83 Resp: 151458
 Ion Ratio Lower Upper
 83 100
 55 70.9 57.6 86.4
 98 50.8 41.0 61.6



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: 22.224 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

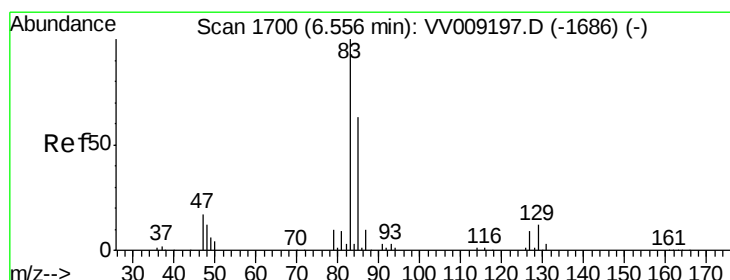
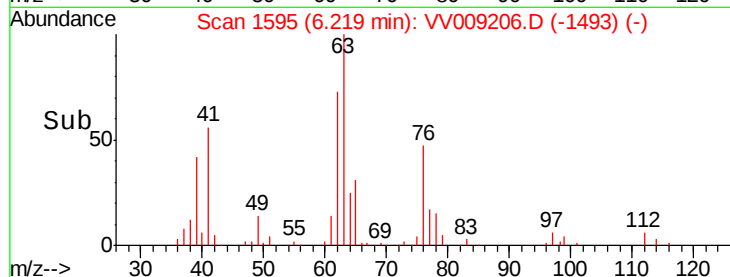
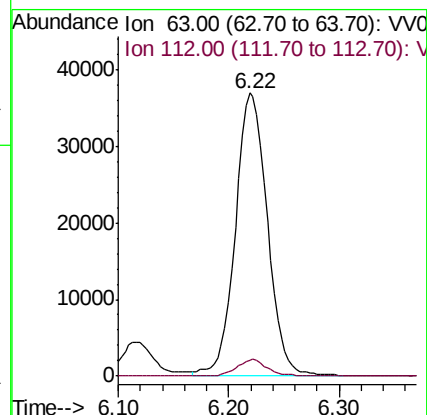
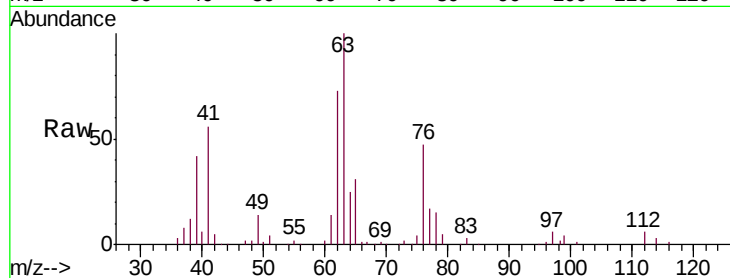
BFB71

Tgt Ion: 63 Resp: 73947

Ion Ratio Lower Upper

63 100

112 5.5 4.1 6.1



#41

Bromodichloromethane

Concen: 21.935 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

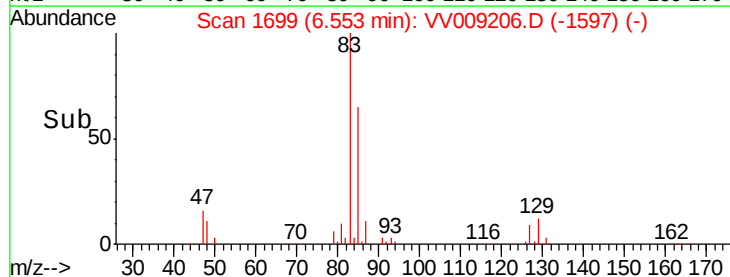
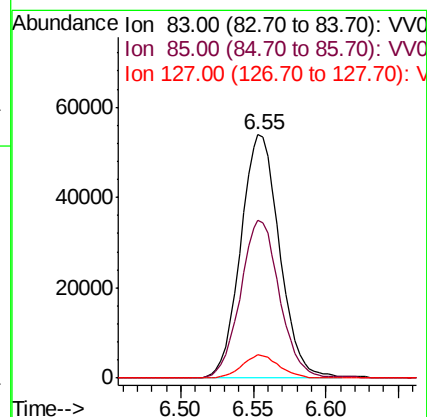
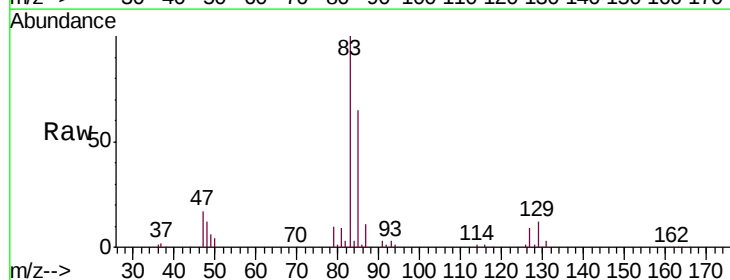
Tgt Ion: 83 Resp: 100369

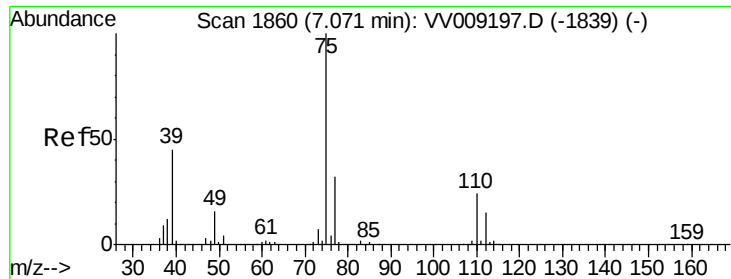
Ion Ratio Lower Upper

83 100

85 65.0 45.4 84.4

127 9.4 7.2 10.8



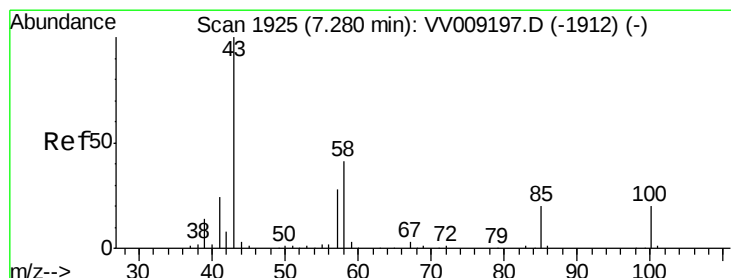
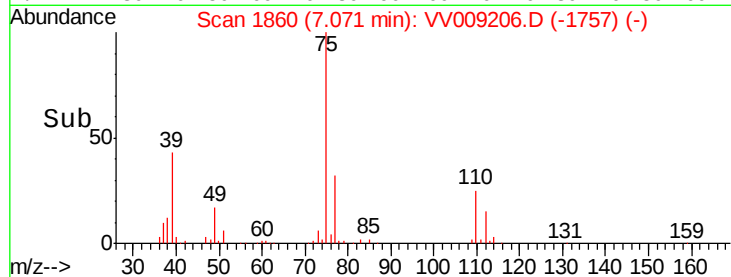
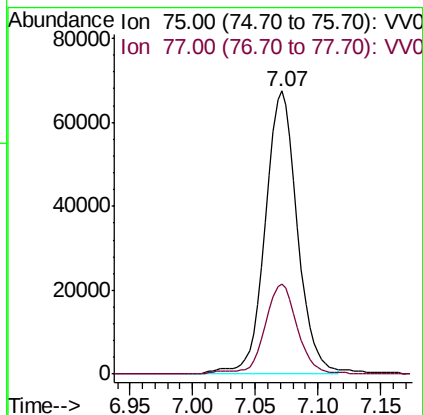
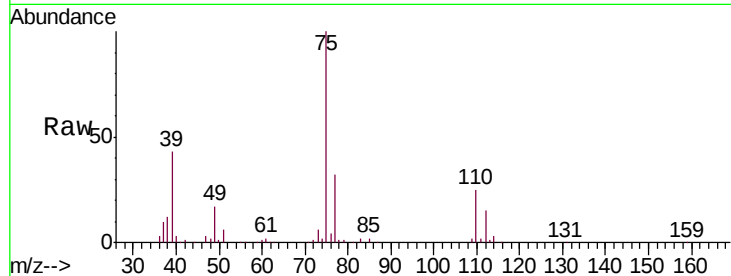


#42

cis-1,3-Dichloropropene
Concen: 23.039 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

Instrument :
MSVOA_V
ClientSampleId :
BFB71

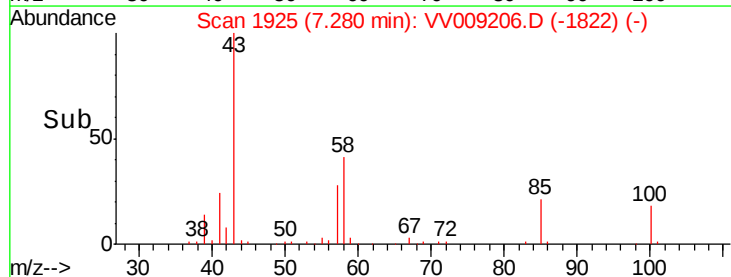
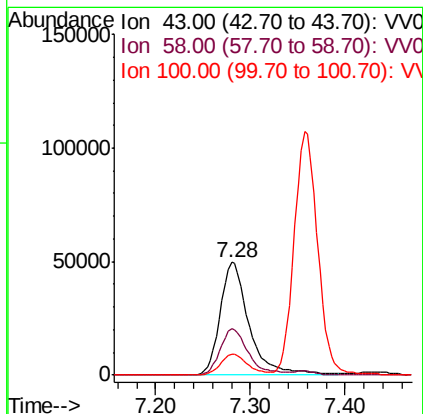
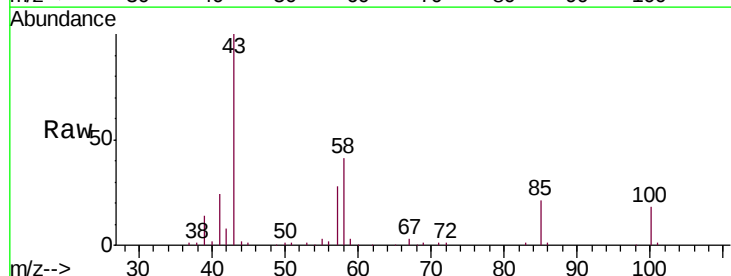
Tgt Ion: 75 Resp: 120438
Ion Ratio Lower Upper
75 100
77 32.0 22.7 42.3

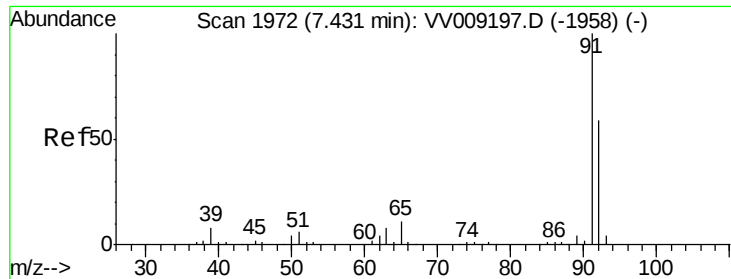


#43

4-Methyl-2-pentanone
Concen: 40.432 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

Tgt Ion: 43 Resp: 105751
Ion Ratio Lower Upper
43 100
58 40.1 32.8 49.2
100 17.6 15.0 22.4





#44

Toluene

Concen: 22.805 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

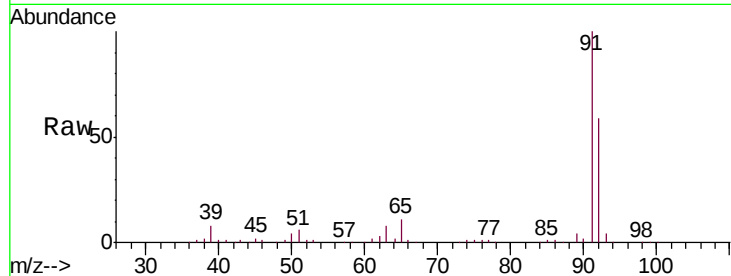
BFB71

Tgt Ion: 91 Resp: 334580

Ion Ratio Lower Upper

91 100

92 59.3 41.8 77.6



Abundance Ion 91.00 (90.70 to 91.70): VV009197.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009197.D (-1958) (-)

7.43

200000

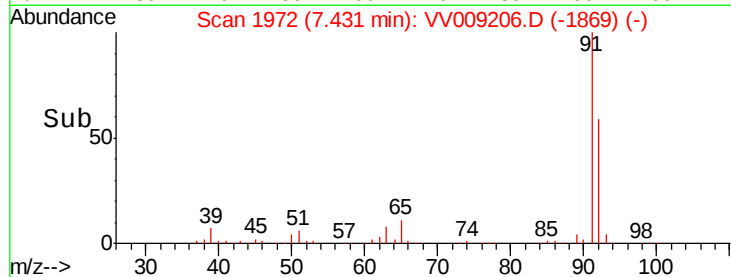
150000

100000

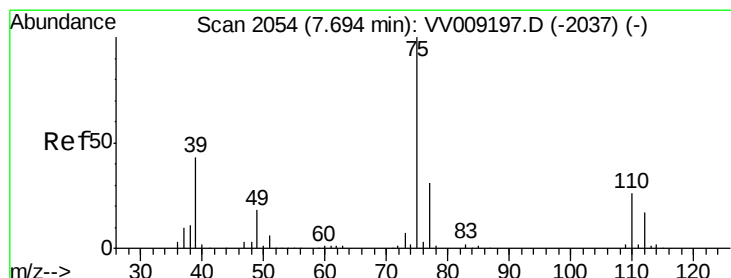
50000

0

Time-->



Time-->



#45

trans-1,3-Dichloropropene

Concen: 22.035 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009206.D

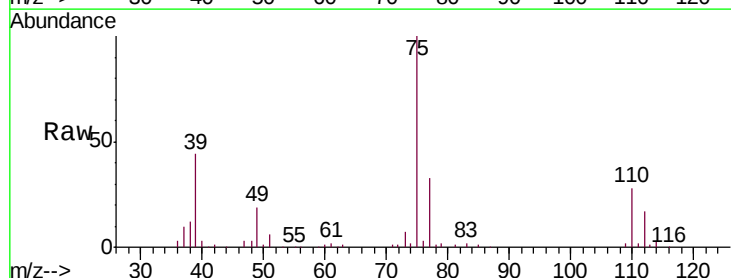
Acq: 09 Jan 2019 09:47

Tgt Ion: 75 Resp: 101421

Ion Ratio Lower Upper

75 100

77 33.2 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV009197.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009197.D (-2037) (-)

7.69

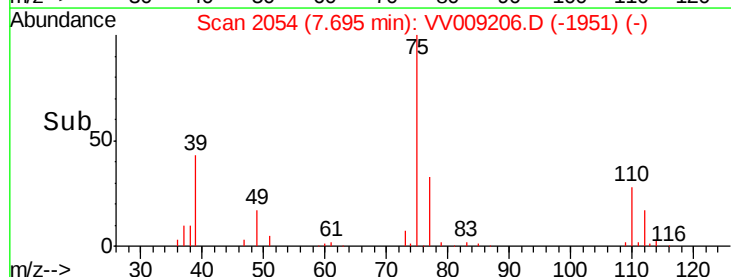
60000

40000

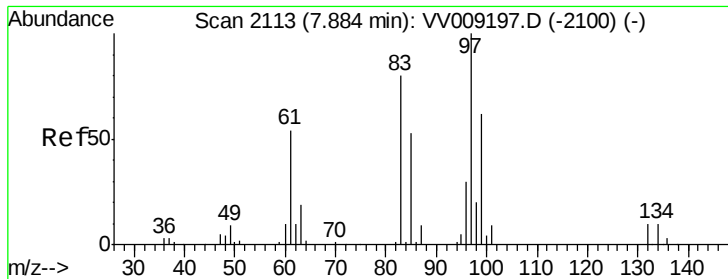
20000

0

Time-->



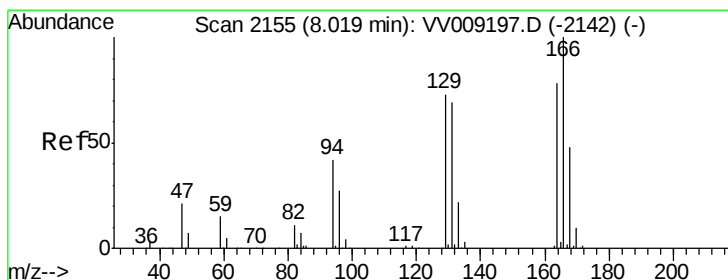
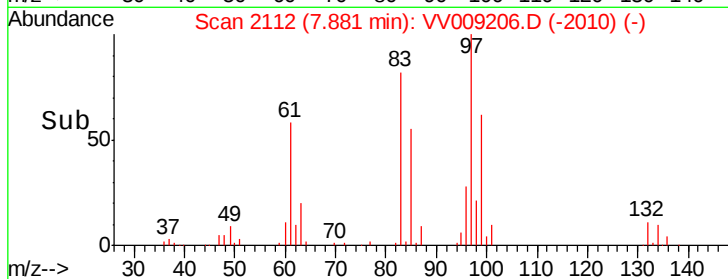
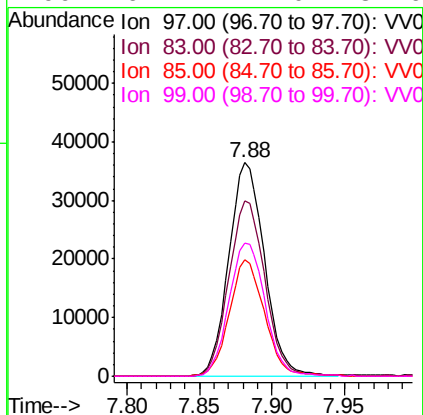
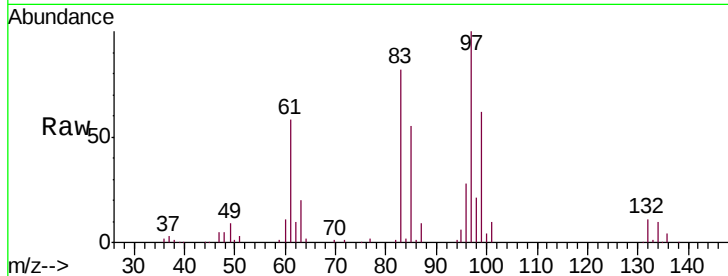
Time-->



#46
 1,1,2-Trichloroethane
 Concen: 21.521 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV009206.D
 Acq: 09 Jan 2019 09:47

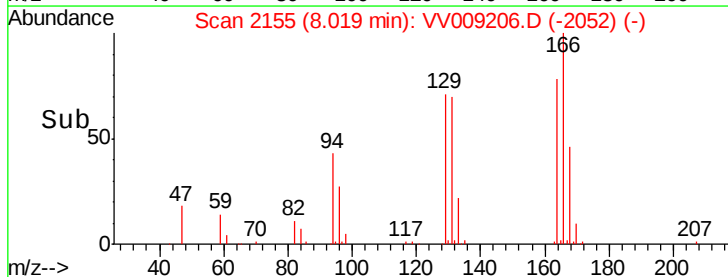
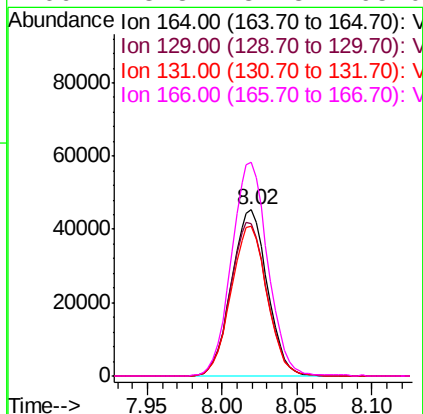
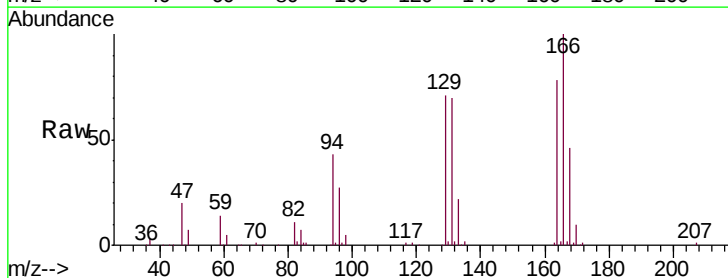
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB71

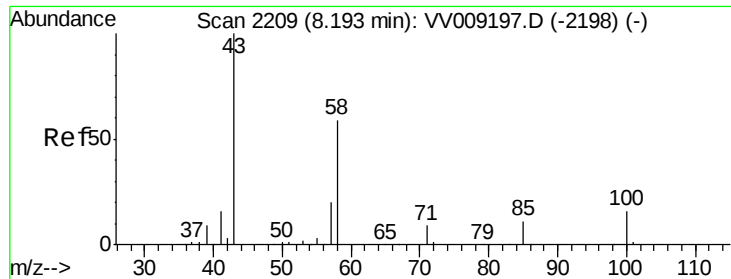
Tgt Ion:	97	Resp:	62424
Ion	Ratio	Lower	Upper
97	100		
83	81.8	58.0	107.6
85	54.6	38.4	71.4
99	62.4	44.0	81.6



#47
 Tetrachloroethene
 Concen: 22.531 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009206.D
 Acq: 09 Jan 2019 09:47

Tgt Ion:	164	Resp:	75780
Ion	Ratio	Lower	Upper
164	100		
129	91.7	65.3	121.3
131	90.1	61.8	114.8
166	128.8	87.8	163.0

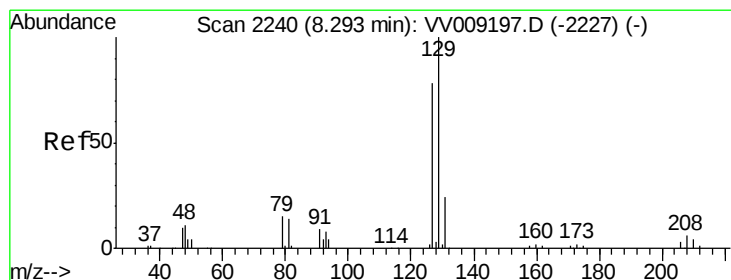
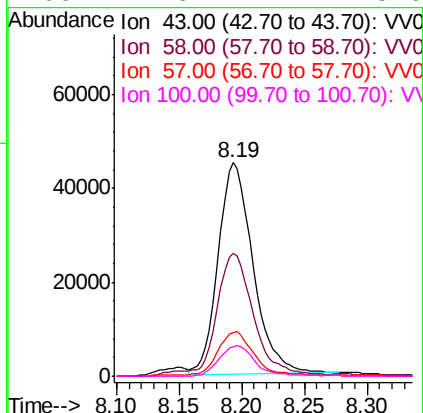
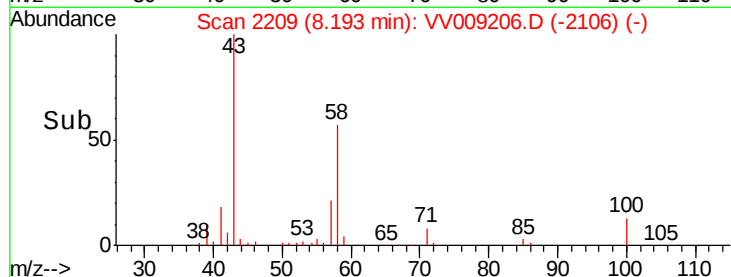
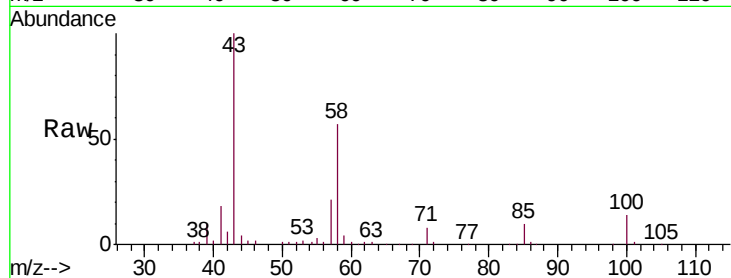




#49
2-Hexanone
Concen: 42.412 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

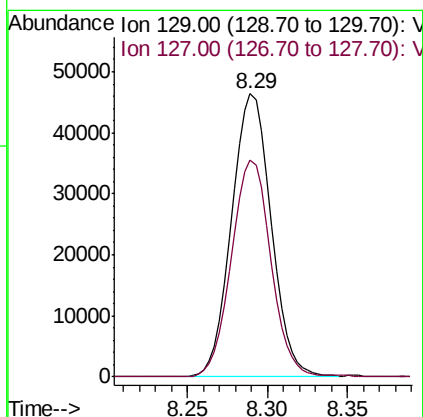
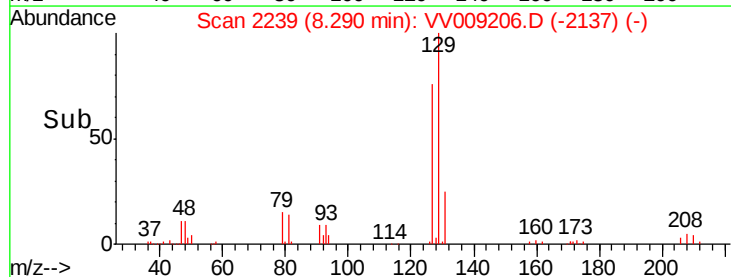
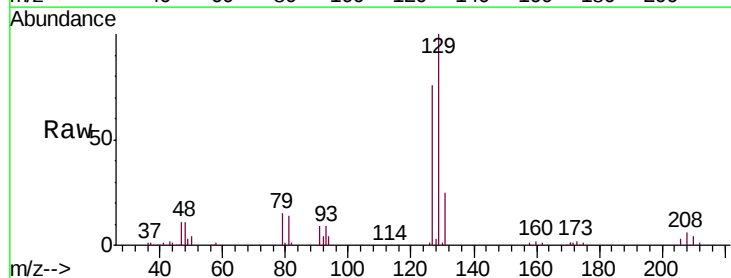
Instrument :
MSVOA_V
ClientSampleId :
BFB71

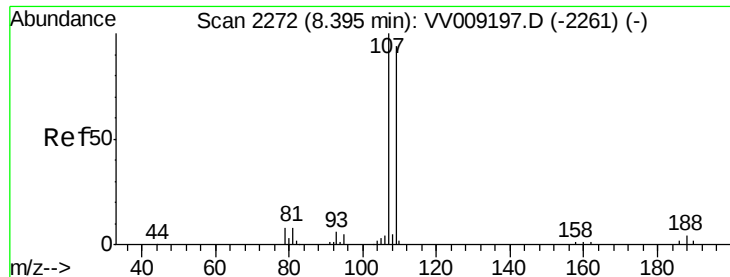
Tgt Ion: 43 Resp: 87843
Ion Ratio Lower Upper
43 100
58 58.3 48.4 72.6
57 22.4 15.6 23.4
100 14.6 12.4 18.6



#50
Dibromochloromethane
Concen: 22.071 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

Tgt Ion: 129 Resp: 78076
Ion Ratio Lower Upper
129 100
127 76.4 55.9 103.9

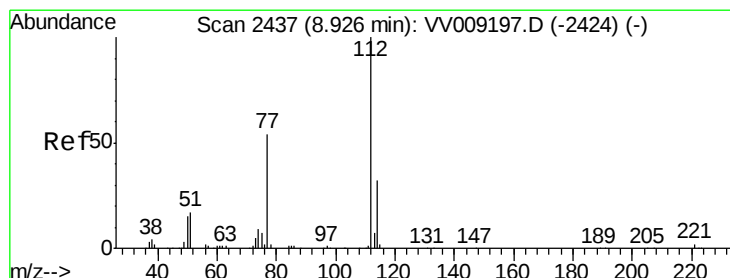
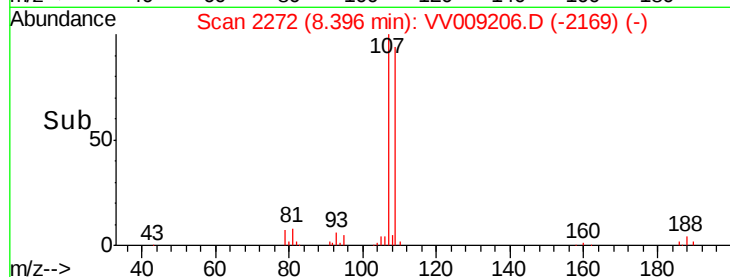
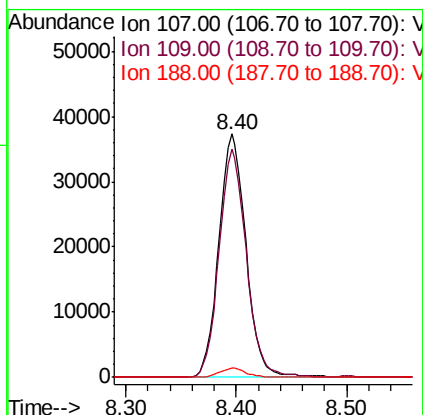
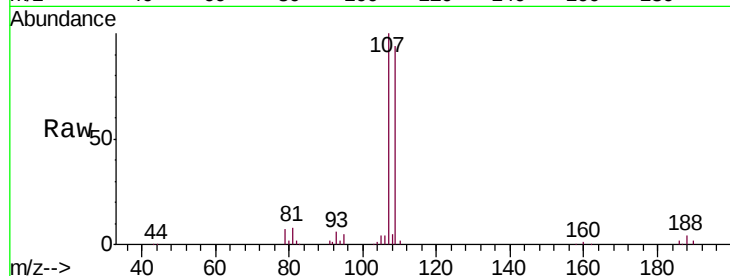




#51
1,2-Dibromoethane
Concen: 21.570 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

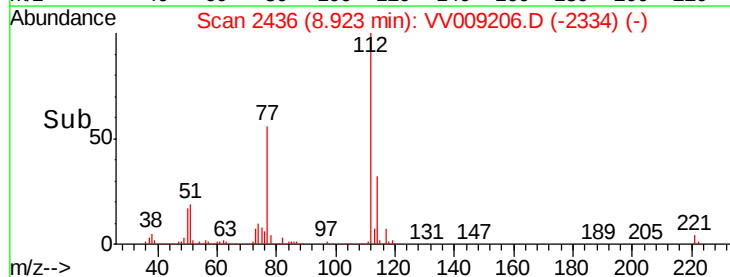
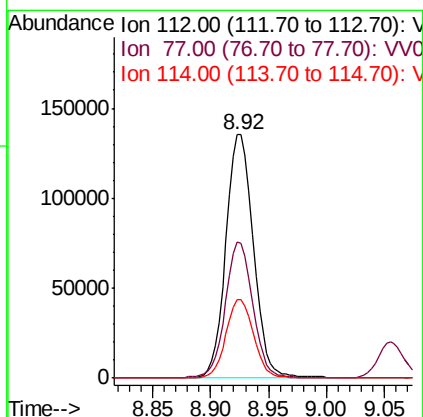
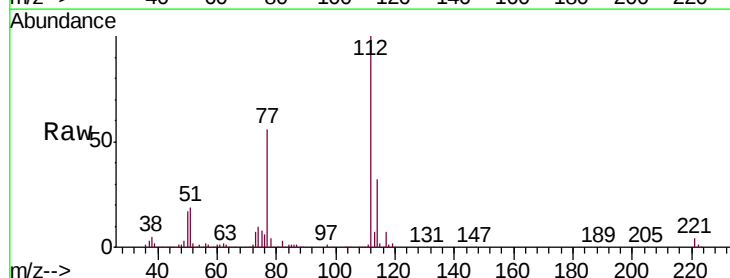
Instrument :
MSVOA_V
ClientSampleId :
BFB71

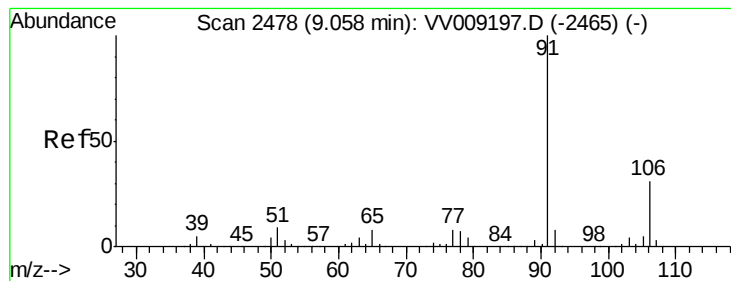
Tgt Ion:107 Resp: 63867
Ion Ratio Lower Upper
107 100
109 93.6 65.0 120.6
188 3.9 3.0 4.4



#52
Chlorobenzene
Concen: 22.196 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

Tgt Ion:112 Resp: 223888
Ion Ratio Lower Upper
112 100
77 55.9 45.4 68.2
114 32.1 22.9 42.5





#53

Ethylbenzene

Concen: 22.583 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampled :

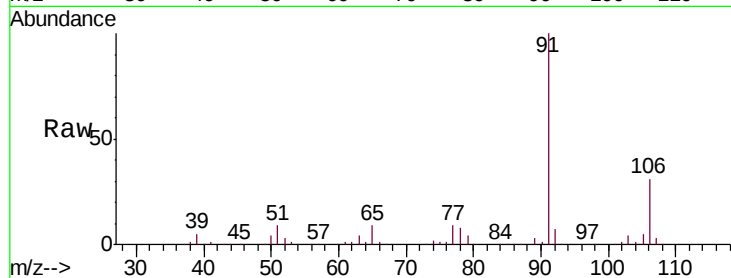
BFB71

Tgt Ion: 91 Resp: 374327

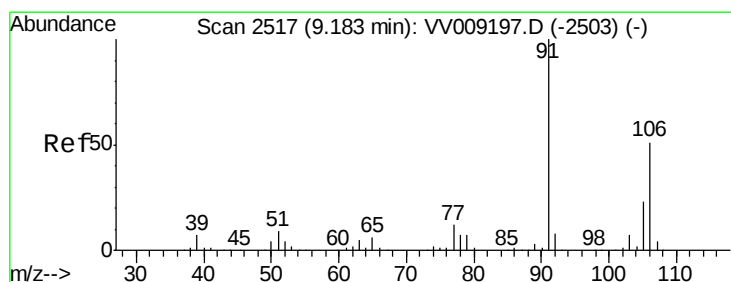
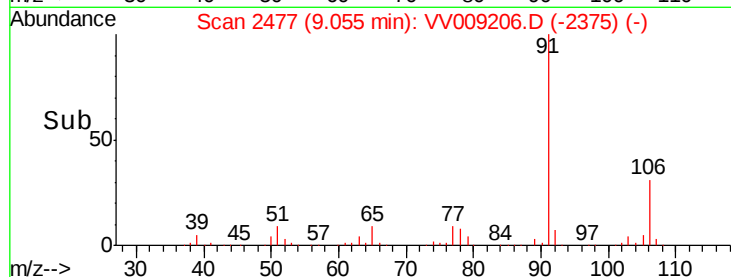
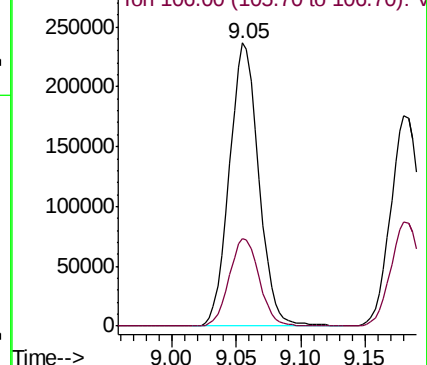
Ion Ratio Lower Upper

91 100

106 31.0 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV009197.D (-2465) (-)



#54

m,p-Xylene

Concen: 22.407 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV009206.D

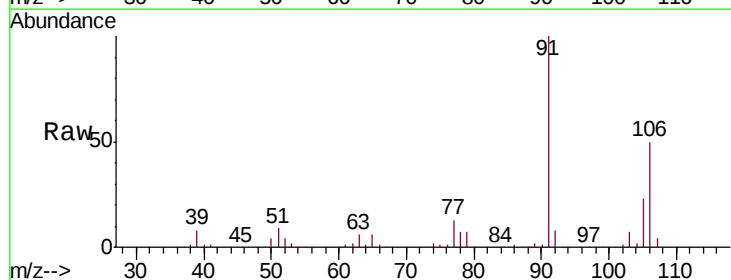
Acq: 09 Jan 2019 09:47

Tgt Ion: 106 Resp: 143489

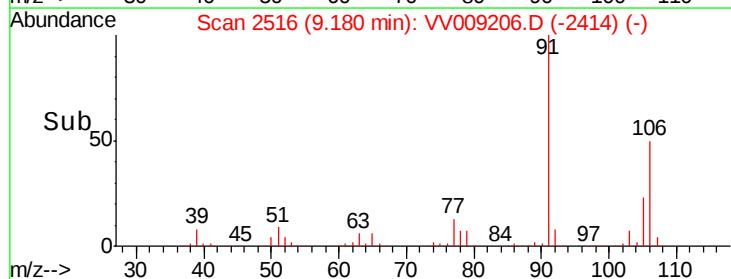
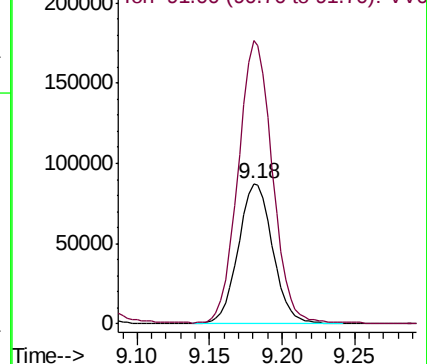
Ion Ratio Lower Upper

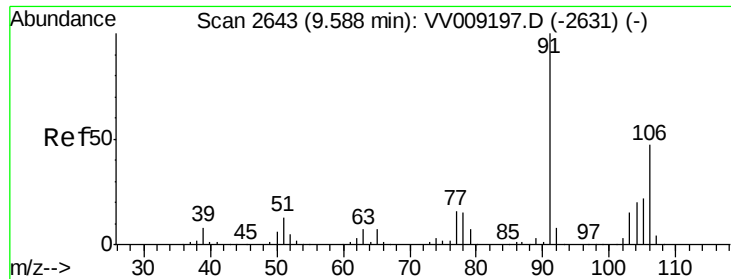
106 100

91 202.0 139.2 258.6



Abundance Ion 106.00 (105.70 to 106.70): VV009197.D (-2503) (-)

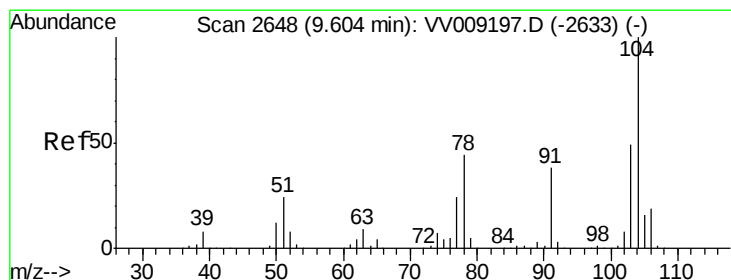
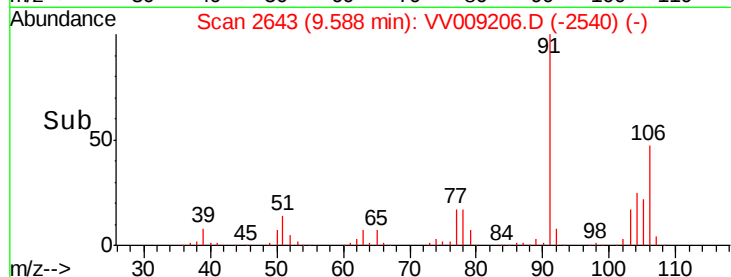
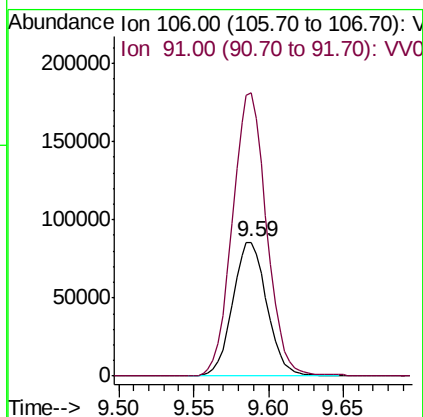
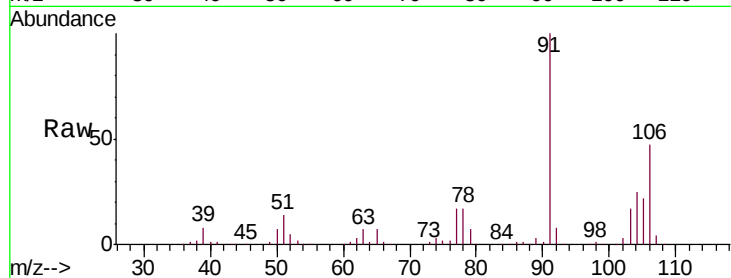




#55
o-xylene
Concen: 22.427 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

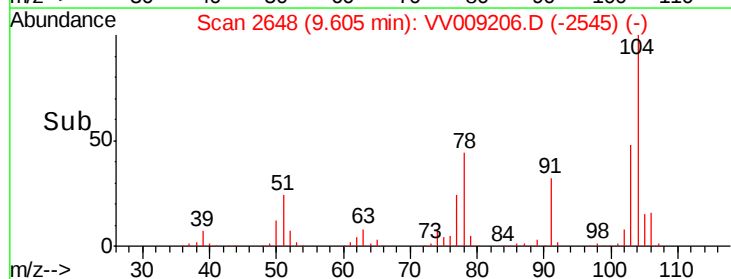
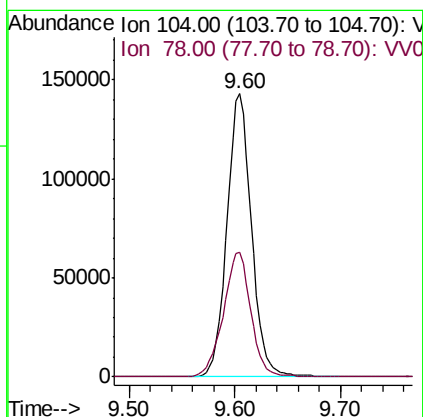
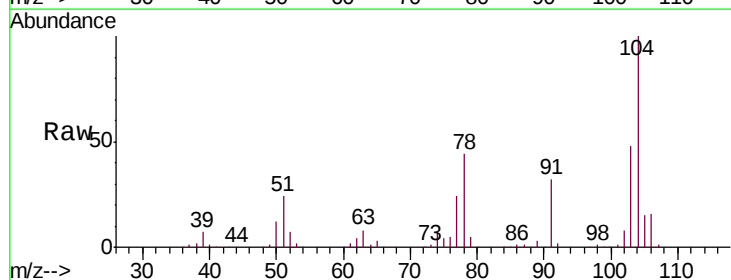
Instrument :
MSVOA_V
ClientSampleId :
BFB71

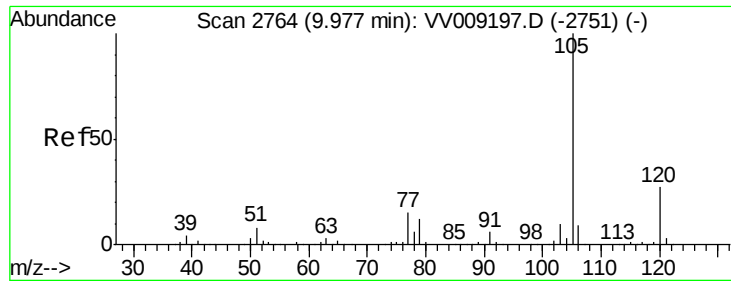
Tgt Ion:106 Resp: 136616
Ion Ratio Lower Upper
106 100
91 211.0 148.0 274.8



#56
Styrene
Concen: 22.716 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009206.D
Acq: 09 Jan 2019 09:47

Tgt Ion:104 Resp: 230188
Ion Ratio Lower Upper
104 100
78 43.8 30.9 57.5





#57

Isopropylbenzene

Concen: 22.538 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

BFB71

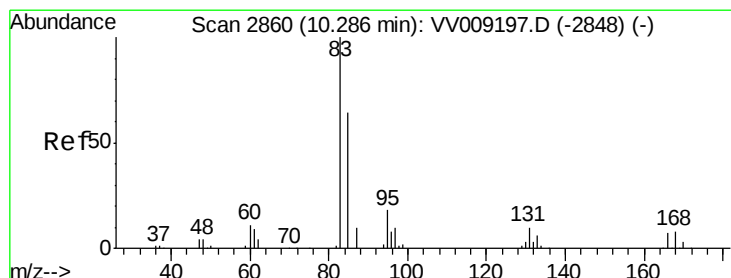
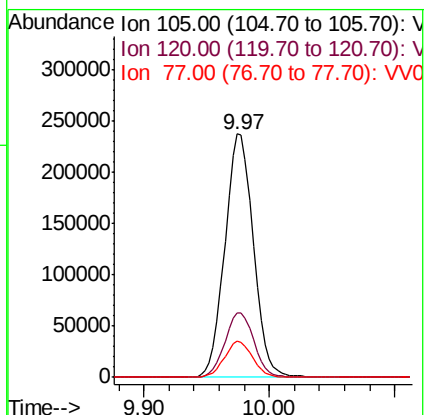
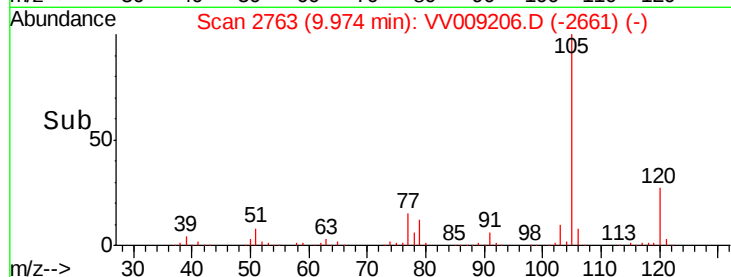
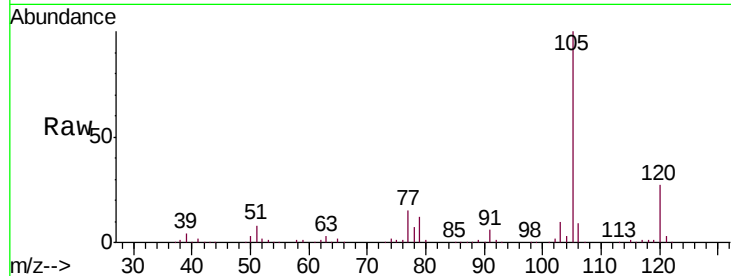
Tgt Ion: 105 Resp: 372949

Ion Ratio Lower Upper

105 100

120 26.9 21.2 31.8

77 14.6 11.9 17.9



#58

1,1,2,2-Tetrachloroethane

Concen: 21.014 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

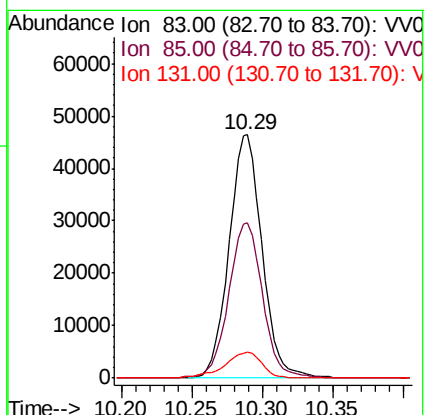
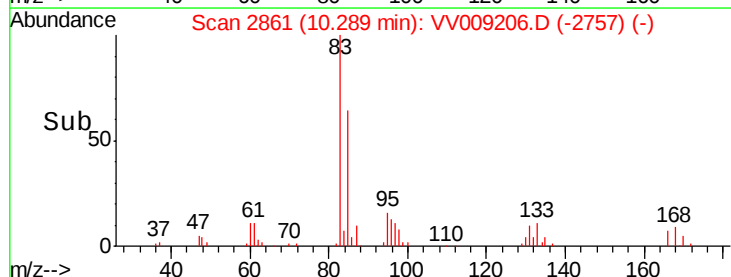
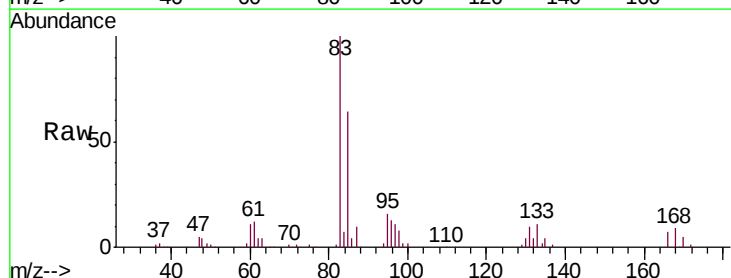
Tgt Ion: 83 Resp: 76105

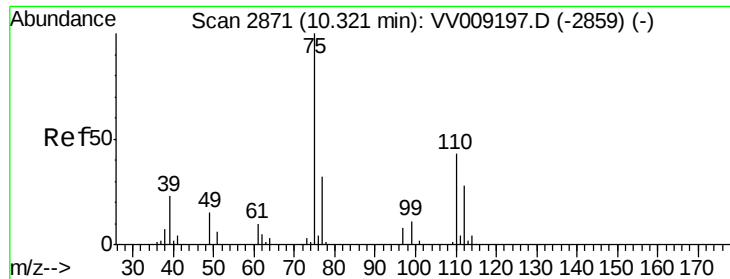
Ion Ratio Lower Upper

83 100

85 63.7 43.7 81.1

131 10.5 8.5 12.7





#59

1,2,3-Trichloropropane

Concen: 19.999 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

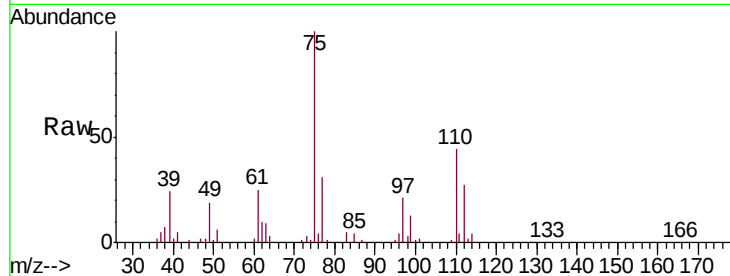
BFB71

Tgt Ion: 75 Resp: 57101

Ion Ratio Lower Upper

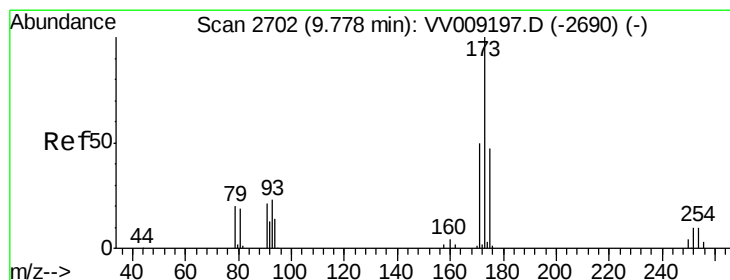
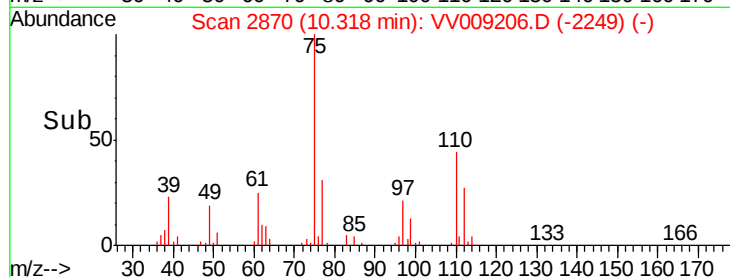
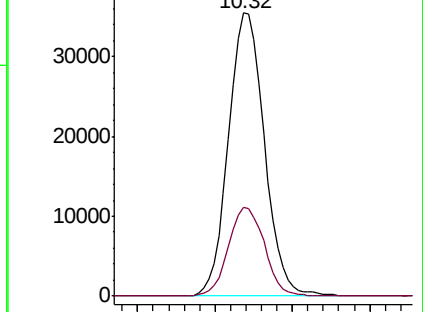
75 100

77 31.4 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VV009197.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009197.D (-2859) (-)



#62

Bromoform

Concen: 20.748 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

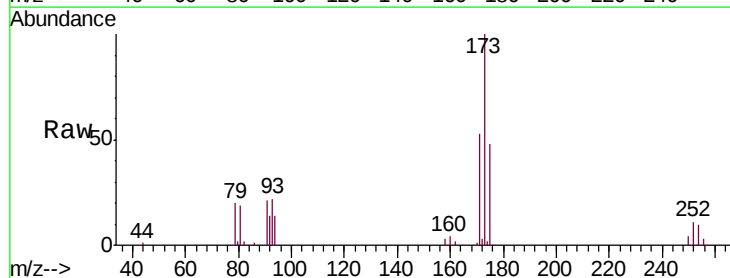
Tgt Ion: 173 Resp: 45855

Ion Ratio Lower Upper

173 100

175 49.6 38.0 57.0

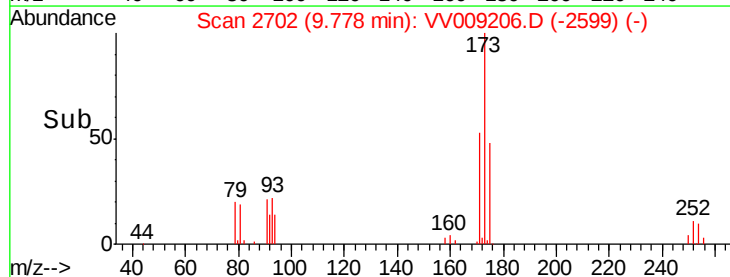
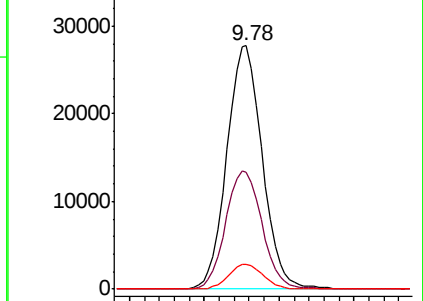
254 9.7 7.7 11.5

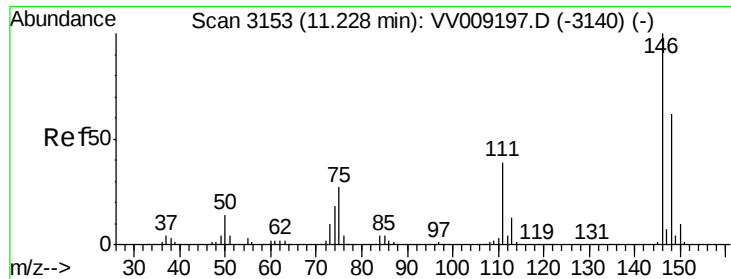


Abundance Ion 173.00 (172.70 to 173.70): VV009197.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV009197.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV009197.D (-2690) (-)





#63

1,3-Dichlorobenzene

Concen: 21.546 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

BFB71

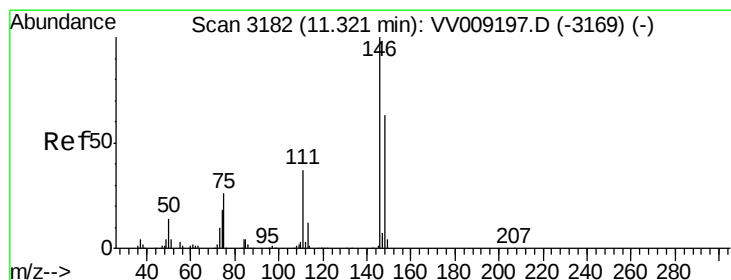
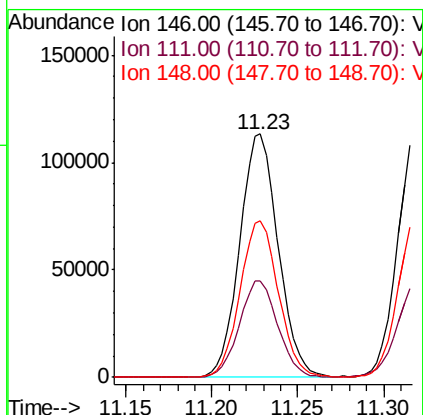
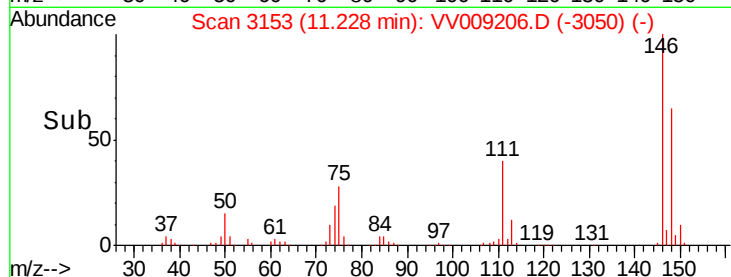
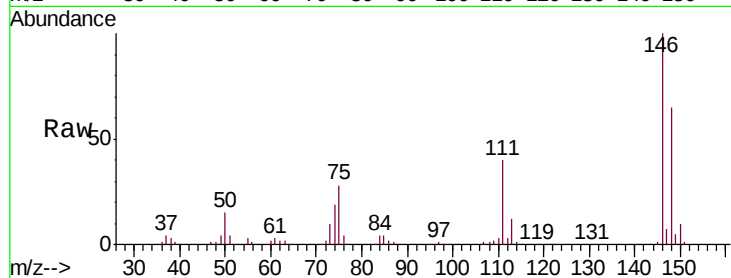
Tgt Ion:146 Resp: 175874

Ion Ratio Lower Upper

146 100

111 39.8 27.2 50.6

148 64.5 43.8 81.4



#64

1,4-Dichlorobenzene

Concen: 21.767 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

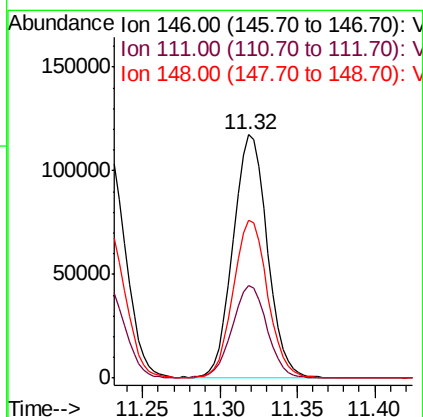
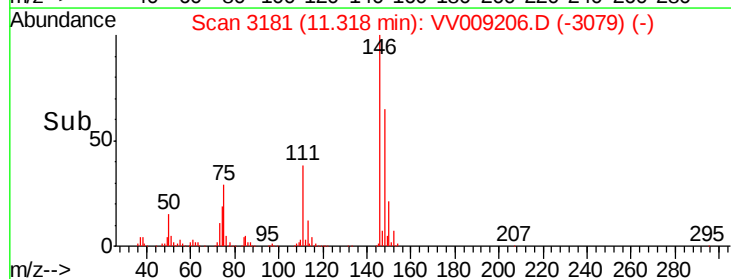
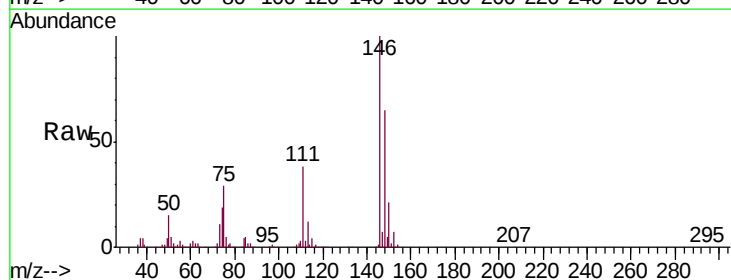
Tgt Ion:146 Resp: 181053

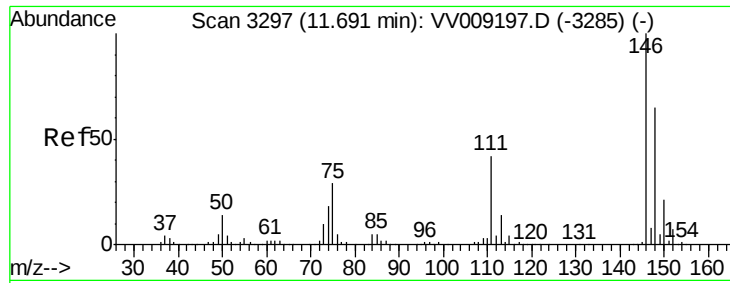
Ion Ratio Lower Upper

146 100

111 38.1 26.4 49.0

148 64.8 44.9 83.3





#65

1,2-Dichlorobenzene

Concen: 21.937 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampled :

BFB71

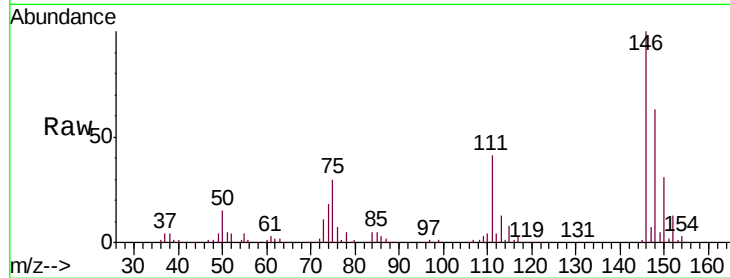
Tgt Ion:146 Resp: 169054

Ion Ratio Lower Upper

146 100

111 40.6 33.0 49.4

148 62.9 50.1 75.1

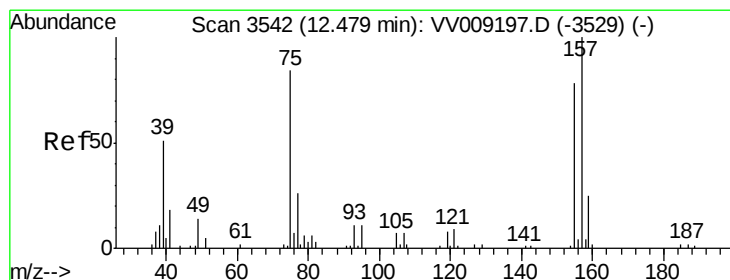
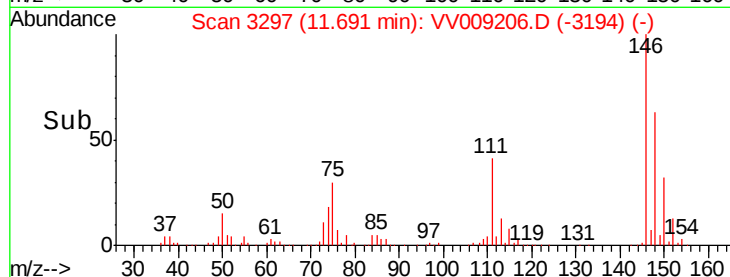
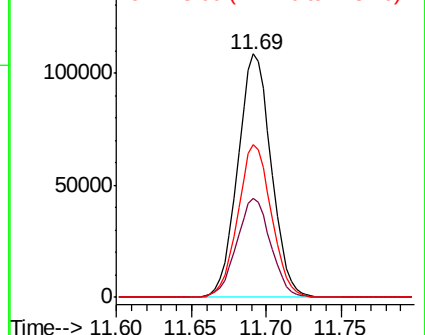


Abundance

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: 19.421 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

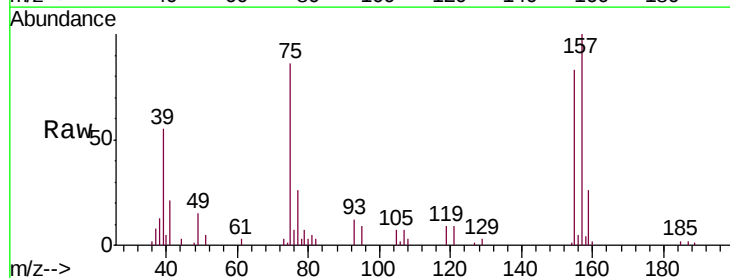
Tgt Ion: 75 Resp: 13420

Ion Ratio Lower Upper

75 100

157 115.9 104.6 156.8

155 96.6 80.1 120.1

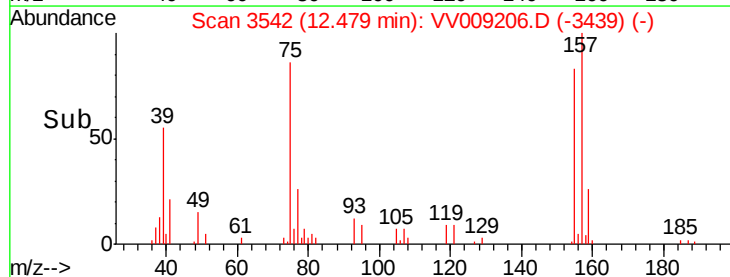
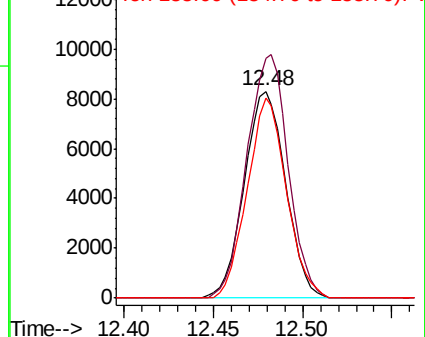


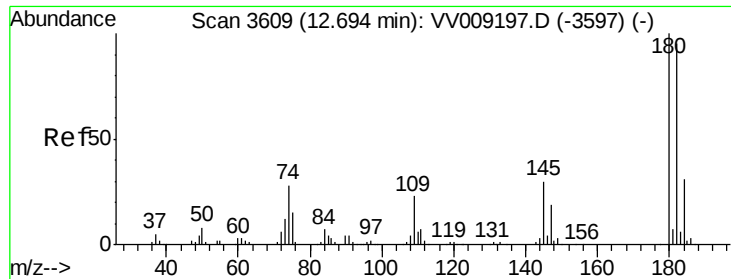
Abundance

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

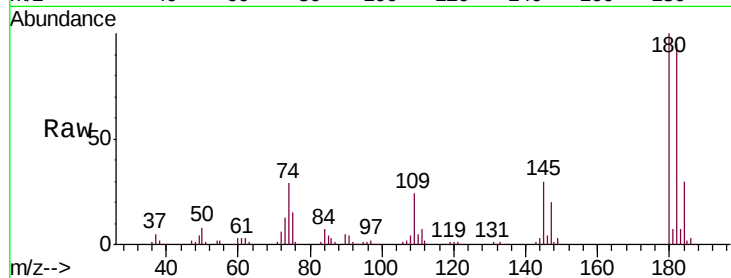




#67
 1,3,5-Trichlorobenzene
 Concen: 21.879 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009206.D
 Acq: 09 Jan 2019 09:47

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB71

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.4	114.6
184	30.9	24.5	36.7
145	30.0	24.2	36.2



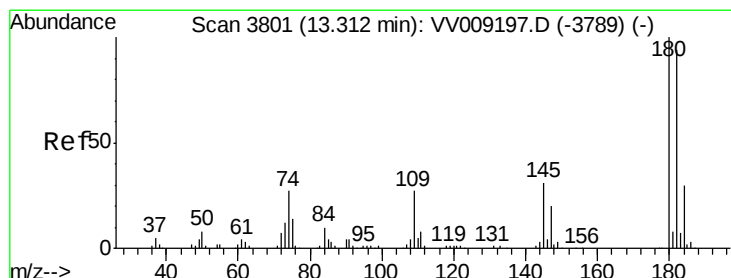
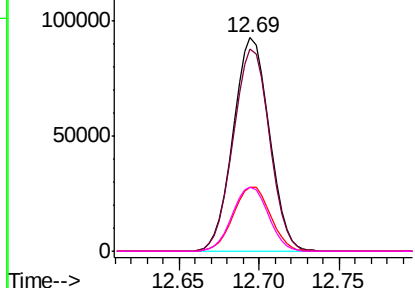
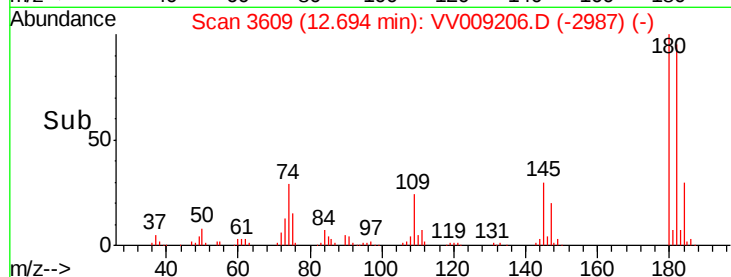
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

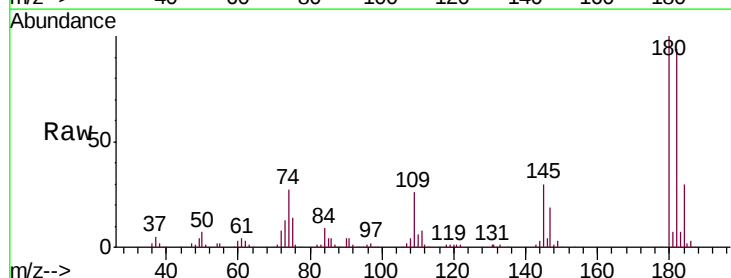
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 21.885 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009206.D
 Acq: 09 Jan 2019 09:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.7	113.5
145	30.8	24.5	36.7

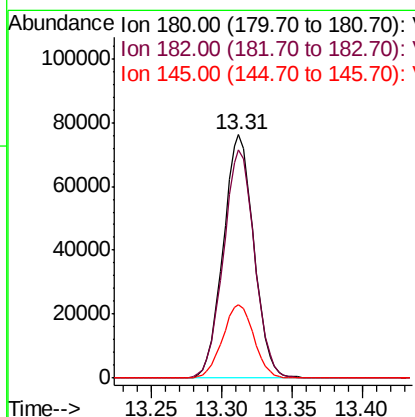
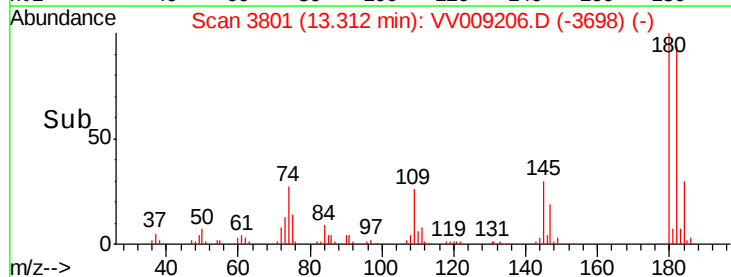


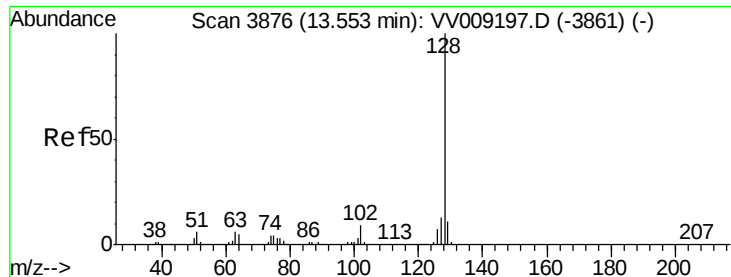
Abundance

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: 19.706 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

Instrument :

MSVOA_V

ClientSampleId :

BFB71

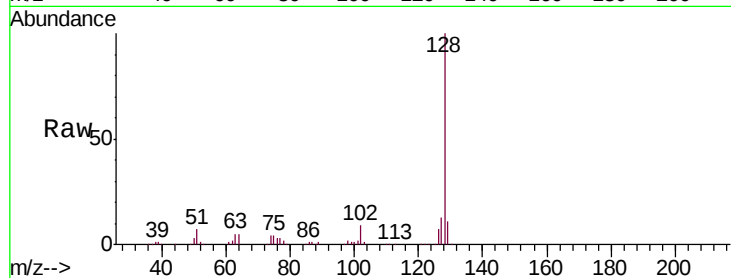
Tgt Ion:128 Resp: 199710

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

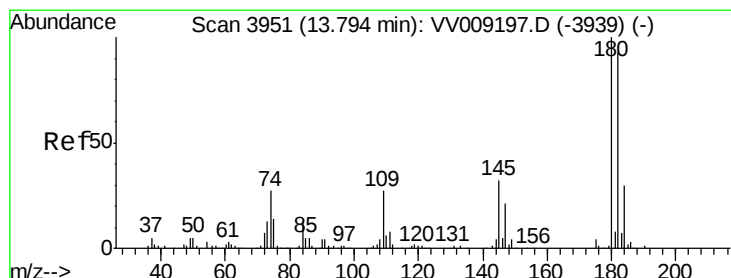
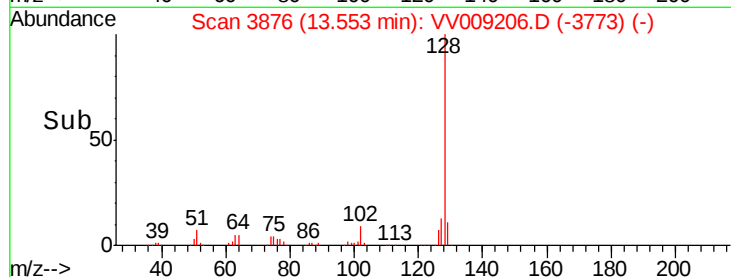
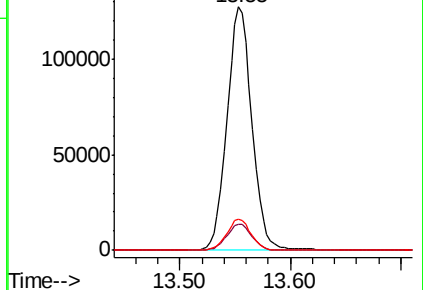
127 12.6 10.6 15.8



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: 21.979 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009206.D

Acq: 09 Jan 2019 09:47

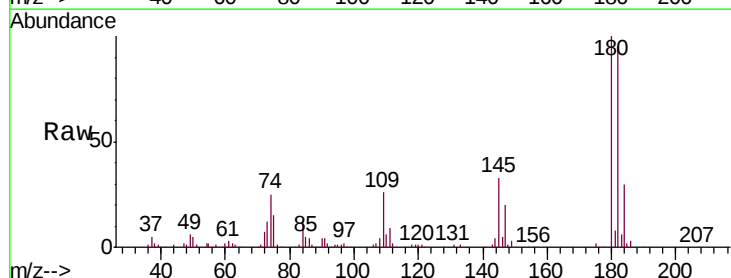
Tgt Ion:180 Resp: 105629

Ion Ratio Lower Upper

180 100

182 93.5 76.8 115.2

145 31.7 25.7 38.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

