

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV083118\
 Data File : VV007306.D
 Acq On : 31 Aug 2018 17:28
 Operator : SY/MD
 Sample : J4665-10MSD
 Misc : 5.0 mL/MSVOA V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MSD

Quant Time: Sep 01 00:03:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM083118WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 31 23:57:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	622463	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	594656	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	295357	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	194260	51.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	103.28%
7) Chloroethane-d5	1.58	69	106596	45.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.00%
11) 1,1-Dichloroethene-d2	2.13	63	333865	47.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.62%
21) 2-Butanone-d5	3.96	46	374188	123.01	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	123.01%
24) Chloroform-d	4.41	84	387374	47.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.46%
26) 1,2-Dichloroethane-d4	5.09	65	231987	47.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.16%
32) Benzene-d6	5.10	84	778017	48.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.38%
36) 1,2-Dichloropropane-d6	6.12	67	255495	48.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.44%
41) Toluene-d8	7.36	98	718985	50.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.62%
43) trans-1,3-Dichloropropene-	7.67	79	113212	47.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.82%
47) 2-Hexanone-d5	8.14	63	255355	129.35	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	129.35%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	377120	52.25	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.50%
64) 1,2-Dichlorobenzene-d4	11.68	152	300337	50.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.22%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	237721	48.60	ug/L	# 86
3) Chloromethane	1.26	50	257587	47.97	ug/L	99
5) Vinyl chloride	1.32	62	2584339	512.25	ug/L	99
6) Bromomethane	1.53	94	119136	48.90	ug/L	100
8) Chloroethane	1.59	64	103352	45.03	ug/L	99
9) Trichlorofluoromethane	1.76	101	313517	48.92	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	195502	48.72	ug/L	99
12) 1,1-Dichloroethene	2.14	96	190908	50.97	ug/L	96
13) Acetone	2.21	43	216213	82.44	ug/L	99
14) Carbon disulfide	2.32	76	525848	46.68	ug/L	100
15) Methyl Acetate	2.47	43	230678	54.46	ug/L	99
16) Methylene chloride	2.54	84	206170	46.97	ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	220827	54.28	ug/L	98
18) Methyl tert-butyl Ether	2.82	73	611481	49.08	ug/L	99
19) 1,1-Dichloroethane	3.23	63	448766	54.55	ug/L	100
20) cis-1,2-Dichloroethene	3.97	96	1170134	249.83	ug/L	98
22) 2-Butanone	4.05	43	406649	111.33	ug/L	97

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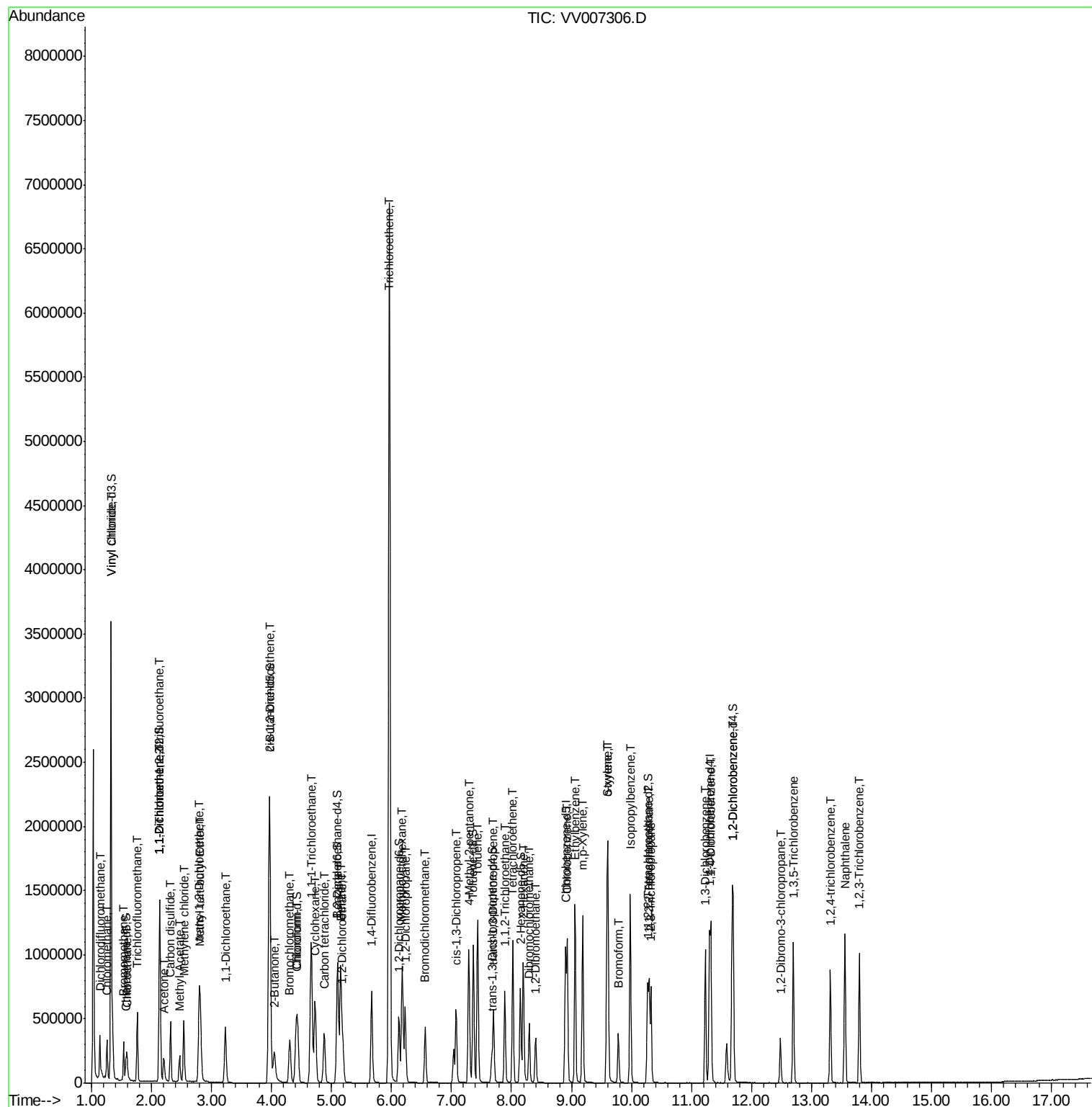
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	117948	48.56	ug/L	96
25) Chloroform	4.43	83	399286	49.32	ug/L	99
27) 1,2-Dichloroethane	5.19	62	302777	50.27	ug/L	100
29) Cyclohexane	4.73	56	336731	52.43	ug/L	100
30) 1,1,1-Trichloroethane	4.66	97	893181	131.97	ug/L	100
31) Carbon tetrachloride	4.88	117	293930	50.32	ug/L	99
33) Benzene	5.15	78	930188	51.64	ug/L	100
34) Trichloroethene	5.96	95	2372735	543.70	ug/L	99
35) Methylcyclohexane	6.18	83	374267	54.25	ug/L	99
37) 1,2-Dichloropropane	6.23	63	241285	49.62	ug/L	100
38) Bromodichloromethane	6.56	83	292786	49.12	ug/L	99
39) cis-1,3-Dichloropropene	7.08	75	343699	50.69	ug/L	99
40) 4-Methyl-2-pentanone	7.29	43	707091	127.54	ug/L	97
42) Toluene	7.44	91	932457	52.42	ug/L	100
44) trans-1,3-Dichloropropene	7.70	75	320724	50.92	ug/L	99
45) 1,1,2-Trichloroethane	7.89	97	228653	50.51	ug/L	99
46) Tetrachloroethene	8.02	164	263795	72.11	ug/L	99
48) 2-Hexanone	8.20	43	581995	129.66	ug/L	100
49) Dibromochloromethane	8.30	129	234799	49.41	ug/L	99
50) 1,2-Dibromoethane	8.40	107	229021	50.67	ug/L	99
51) Chlorobenzene	8.93	112	596037	49.88	ug/L	99
52) Ethylbenzene	9.06	91	955010	51.91	ug/L	99
53) m,p-Xylene	9.19	106	373115	53.72	ug/L	98
54) o-xylene	9.59	106	361843	53.67	ug/L	99
55) Styrene	9.61	104	658388	56.08	ug/L	99
56) Isopropylbenzene	9.98	105	933008	54.50	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	393194	53.84	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	315297	54.64	ug/L	99
61) Bromoform	9.78	173	177712	48.83	ug/L	98
62) 1,3-Dichlorobenzene	11.23	146	434525	49.90	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	474284	50.25	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	494571	52.01	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	85258	55.27	ug/L	93
67) 1,3,5-Trichlorobenzene	12.70	180	344975	51.22	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	280793	52.20	ug/L	99
69) Naphthalene	13.56	128	918011	61.20	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	321651	55.10	ug/L	99

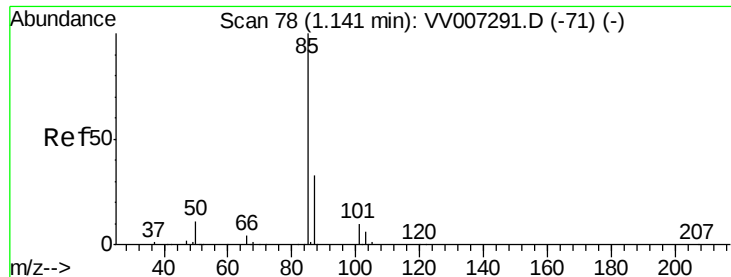
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.60 ug/L

RT: 1.14 min Scan# 78

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

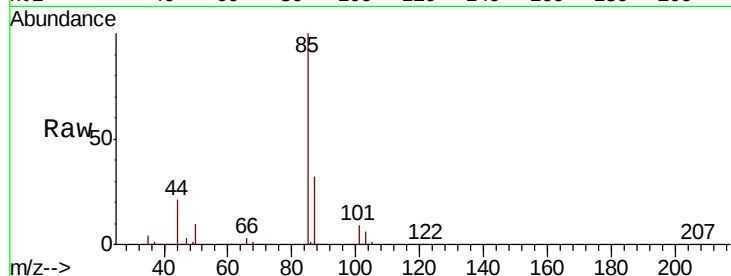
E0AA4MSD

Tot Ion: 85 Resp: 237721

Ion Ratio Lower Upper

85 100

87 32.6 20.3 30.5#



Abundance Ion 85.00 (84.70 to 85.70): VV007291.D (-71) (-)

Ion 87.00 (86.70 to 87.70): VV007291.D (-71) (-)

1.14

200000

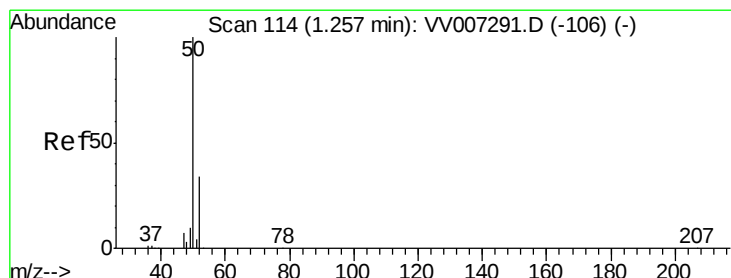
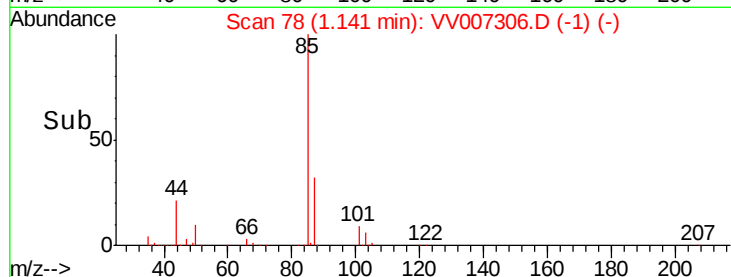
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 47.97 ug/L

RT: 1.26 min Scan# 114

Delta R.T. 0.00 min

Lab File: VV007306.D

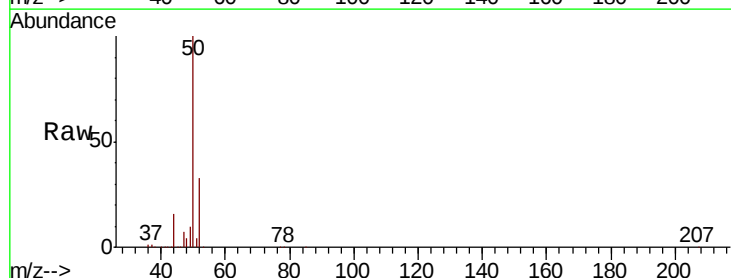
Acq: 31 Aug 2018 17:28

Tgt Ion: 50 Resp: 257587

Ion Ratio Lower Upper

50 100

52 33.2 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VV007291.D (-106) (-)

Ion 52.00 (51.70 to 52.70): VV007291.D (-106) (-)

1.26

200000

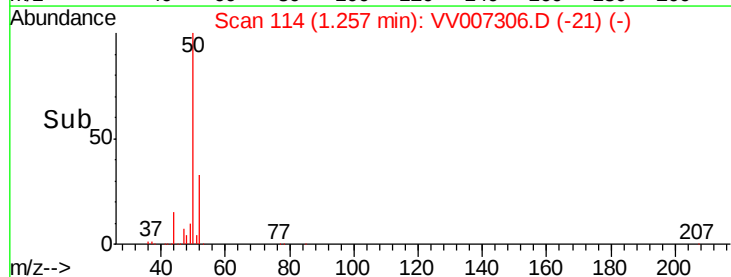
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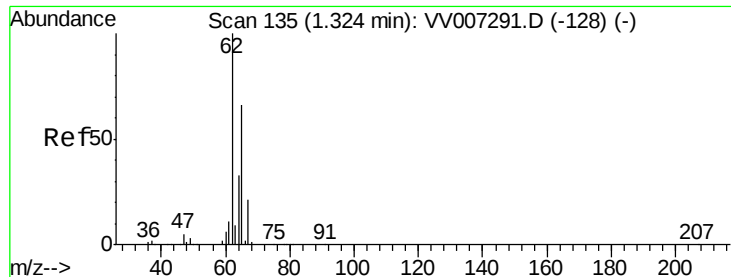
100000

50000

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Time-->





#5

Vinyl chloride

Concen: 512.25 ug/L

RT: 1.32 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

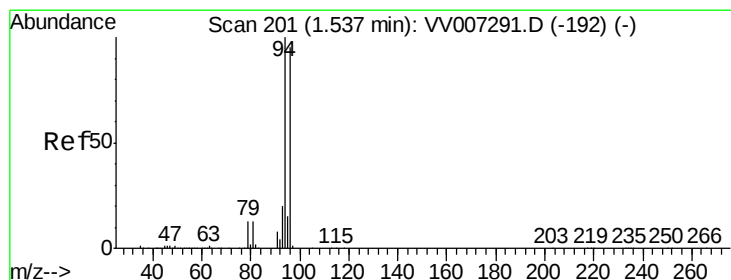
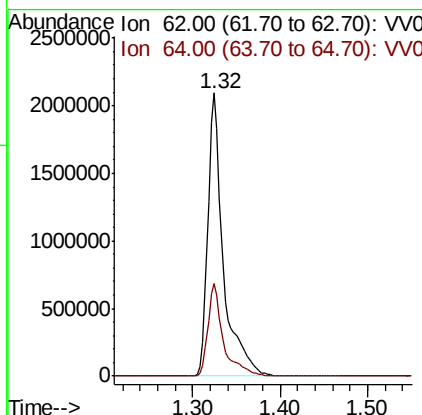
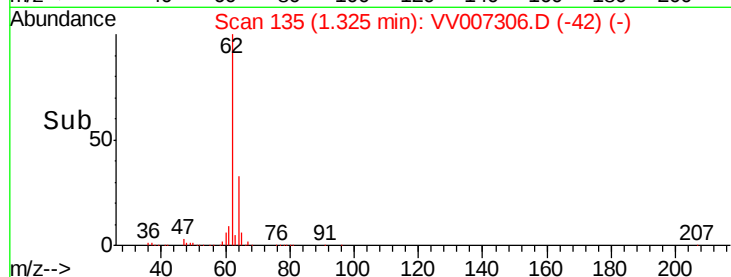
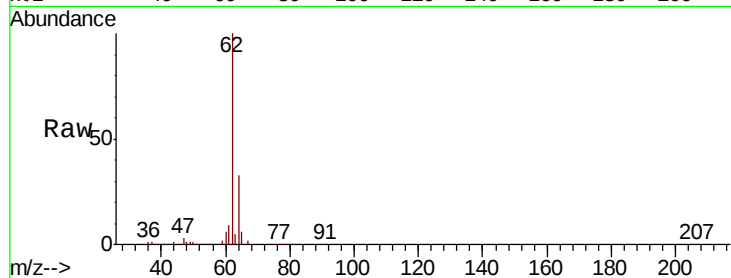
E0AA4MSD

Tot Ion: 62 Resp: 2584339

Ion Ratio Lower Upper

62 100

64 32.6 23.2 43.0



#6

Bromomethane

Concen: 48.90 ug/L

RT: 1.53 min Scan# 200

Delta R.T. -0.00 min

Lab File: VV007306.D

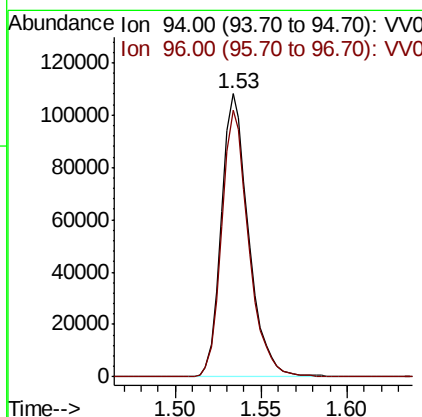
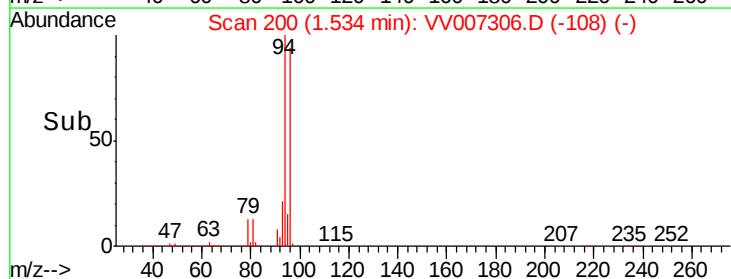
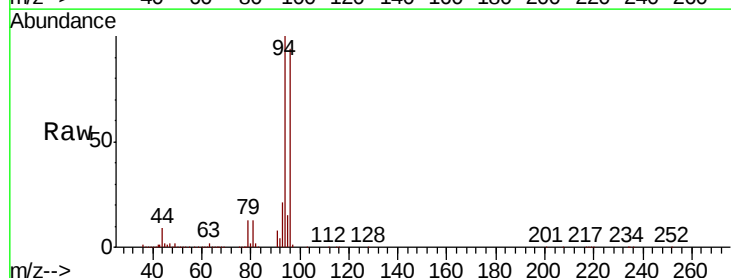
Acq: 31 Aug 2018 17:28

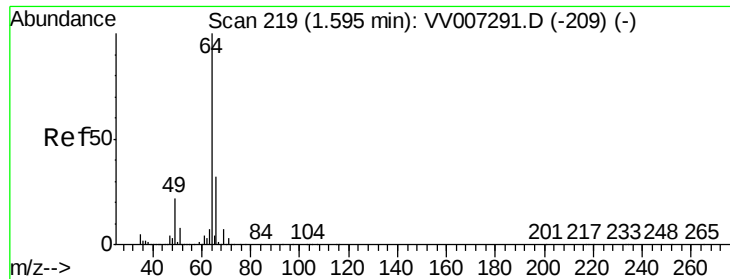
Tgt Ion: 94 Resp: 119136

Ion Ratio Lower Upper

94 100

96 94.2 66.1 122.7

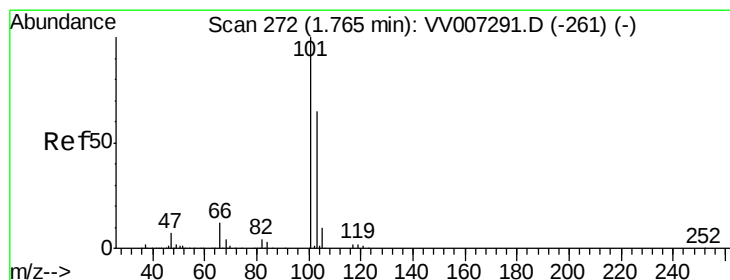
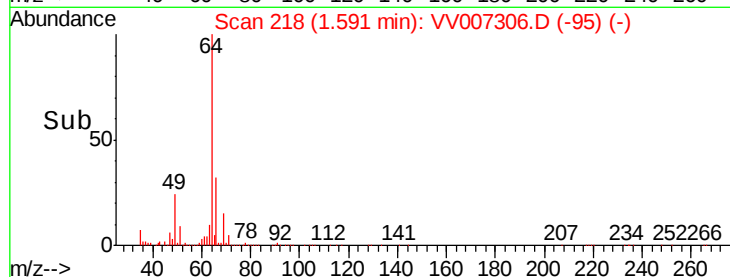
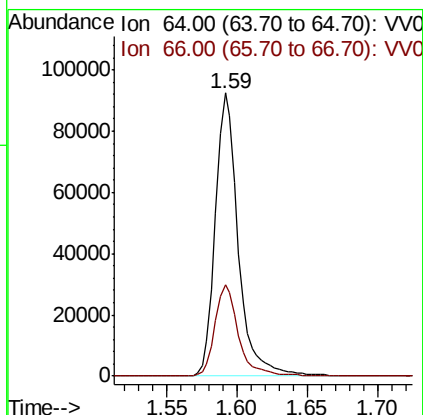
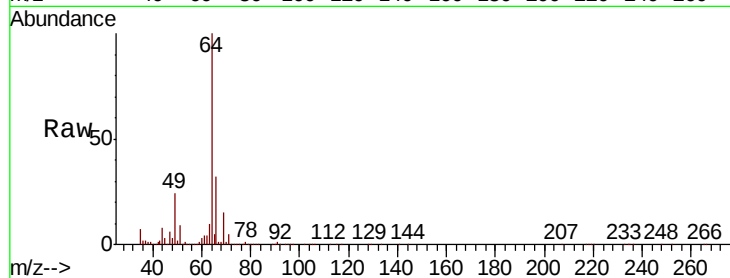




#8
Chloroethane
Concen: 45.03 ug/L
RT: 1.59 min Scan# 218
Delta R.T. -0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

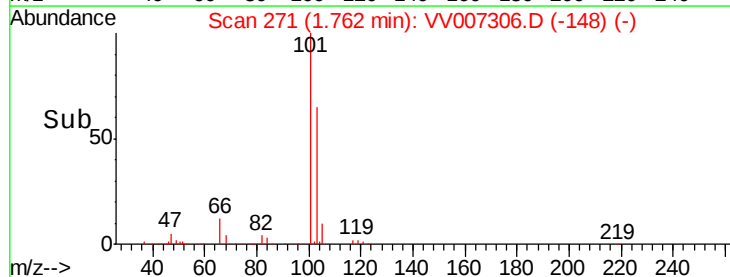
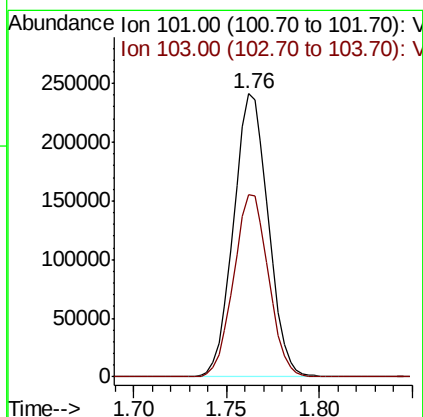
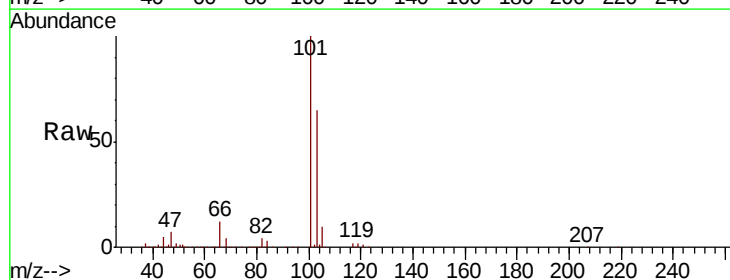
Instrument :
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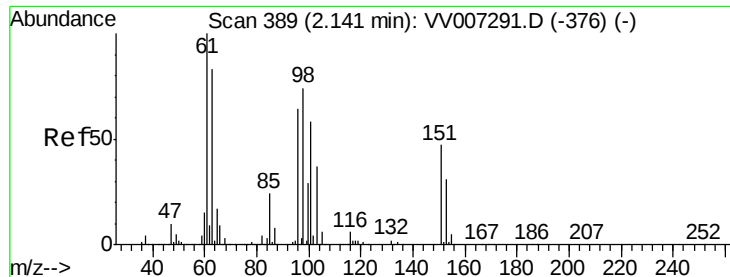
Tot Ion: 64 Resp: 103352
Ion Ratio Lower Upper
64 100
66 32.3 22.3 41.3



#9
Trichlorofluoromethane
Concen: 48.92 ug/L
RT: 1.76 min Scan# 271
Delta R.T. -0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

Tgt Ion: 101 Resp: 313517
Ion Ratio Lower Upper
101 100
103 64.7 52.3 78.5





#10

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

Concen: 48.72 ug/L

RT: 2.14 min Scan# 388

Delta R.T. -0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MSD

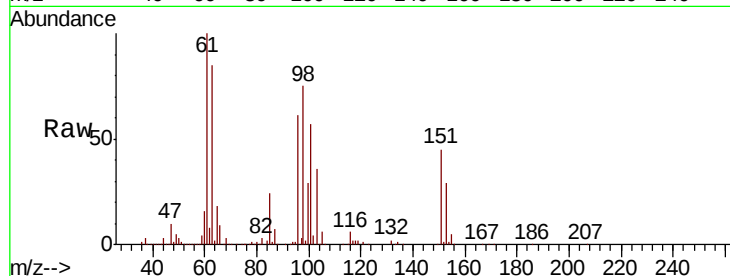
Tot Ion:101 Resp: 195502

Ion Ratio Lower Upper

101 100

85 41.3 32.8 49.2

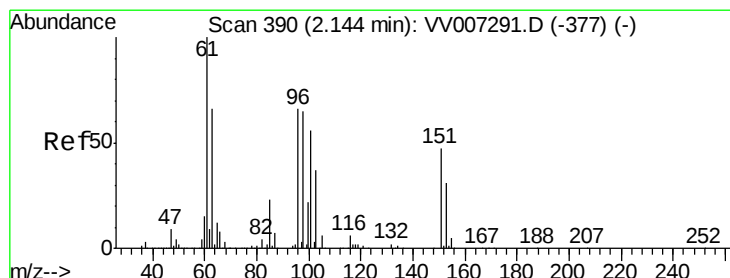
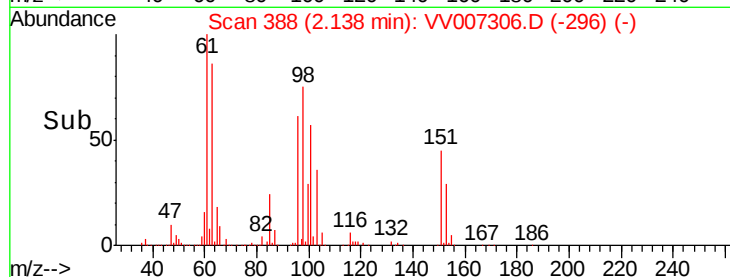
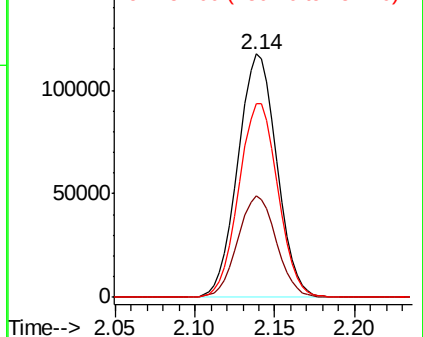
151 80.0 64.8 97.2



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: 50.97 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

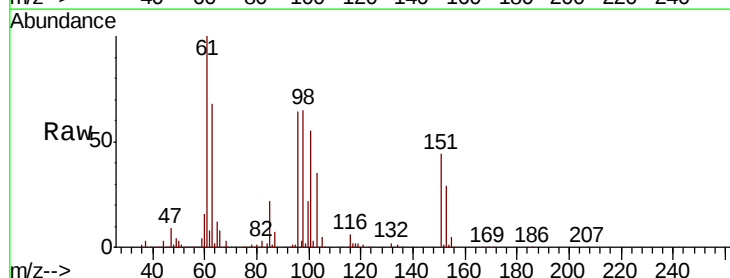
Tgt Ion: 96 Resp: 190908

Ion Ratio Lower Upper

96 100

61 156.0 106.3 197.5

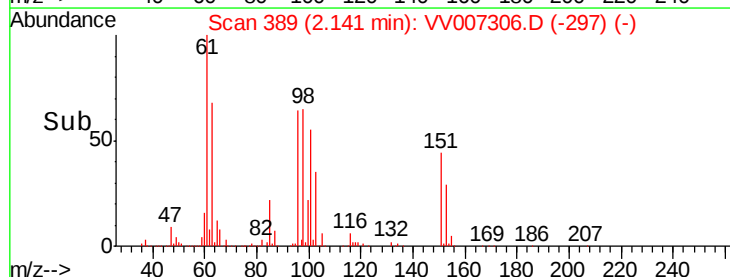
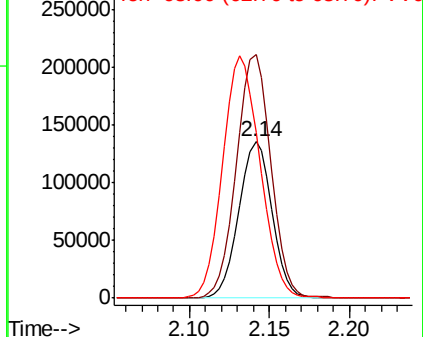
63 105.8 71.0 131.8

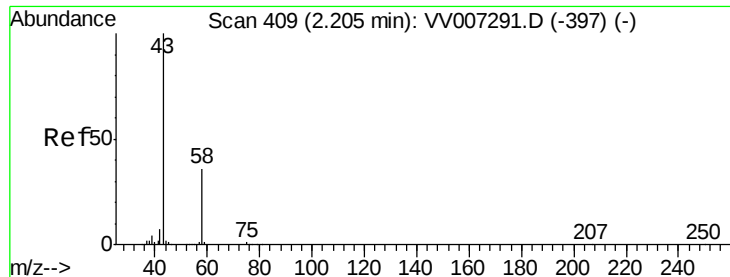


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 82.44 ug/L

RT: 2.21 min Scan# 409

Delta R.T. 0.00 min

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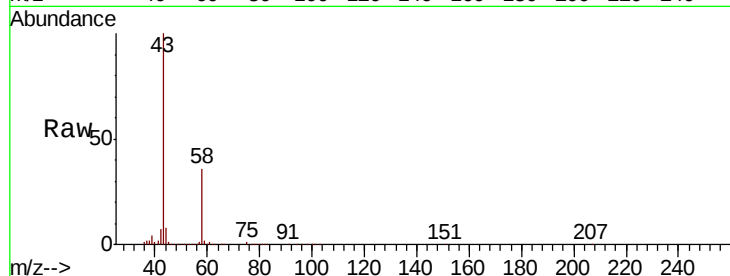
E0AA4MSD

Tot Ion: 43 Resp: 216213

Ion Ratio Lower Upper

43 100

58 37.0 0.0 72.2



Abundance Ion 43.00 (42.70 to 43.70): VV007291.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VV007291.D (-397) (-)

2.21

120000

100000

80000

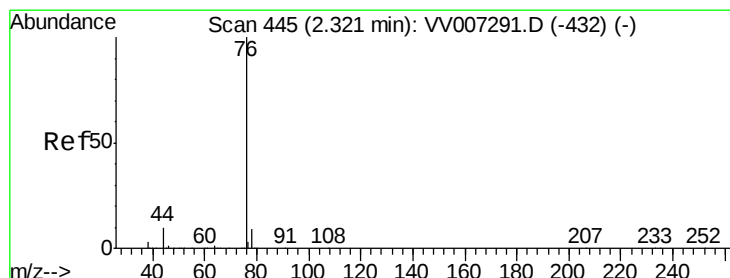
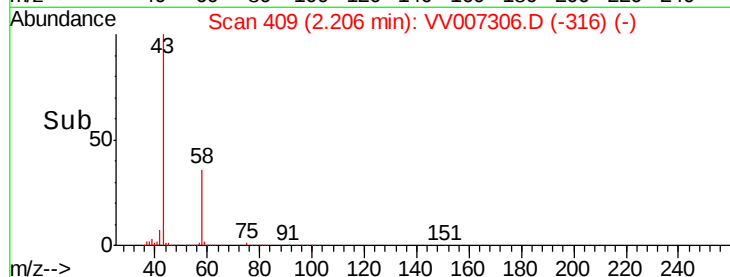
60000

40000

20000

0

Time--> 2.10 2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 46.68 ug/L

RT: 2.32 min Scan# 444

Delta R.T. -0.00 min

Lab File: VV007306.D

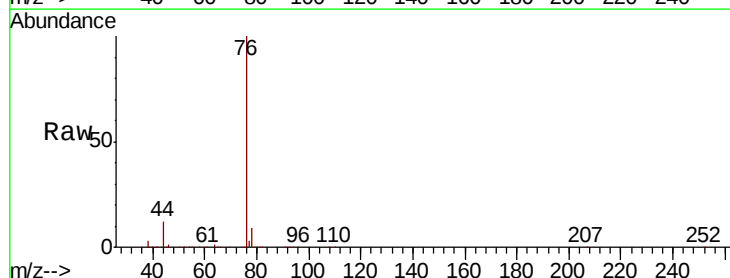
Acq: 31 Aug 2018 17:28

Tgt Ion: 76 Resp: 525848

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV007291.D (-432) (-)

Ion 78.00 (77.70 to 78.70): VV007291.D (-432) (-)

2.32

400000

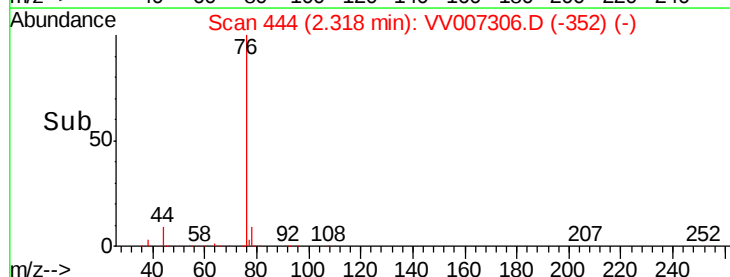
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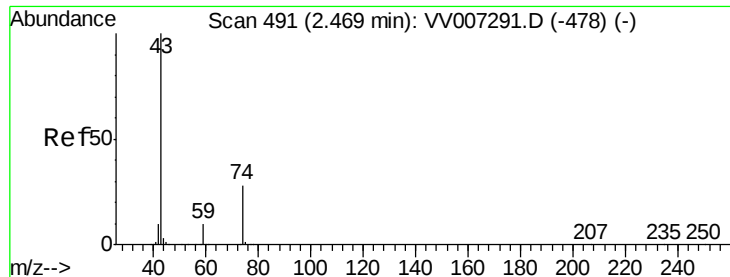
200000

100000

0

Time--> 2.25 2.30 2.35 2.40





#15

Methvl Acetate

Concen: 54.46 ug/L

RT: 2.47 min Scan# 491

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

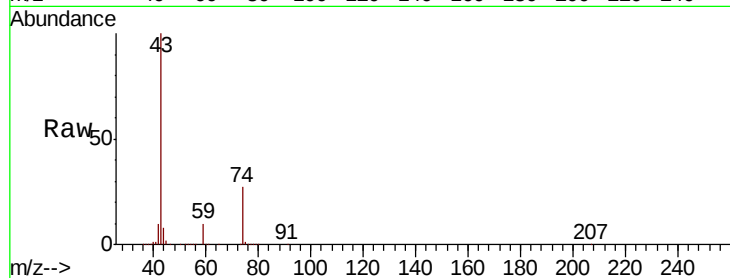
E0AA4MSD

Tot Ion: 43 Resp: 230678

Ion Ratio Lower Upper

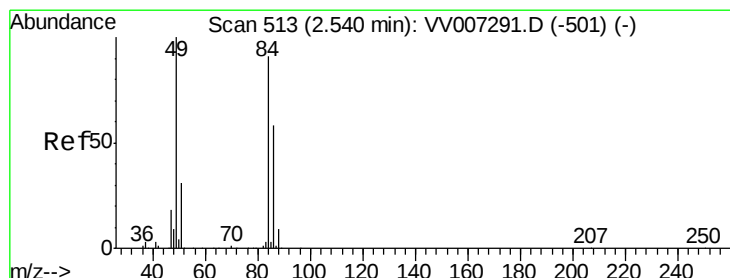
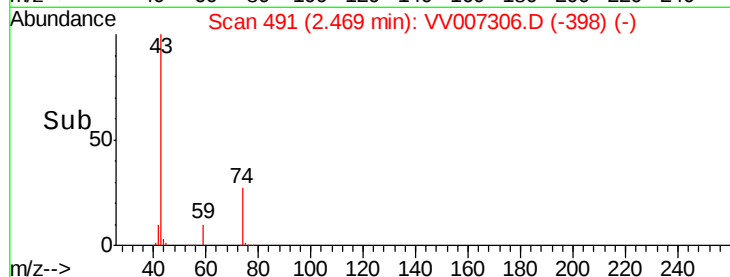
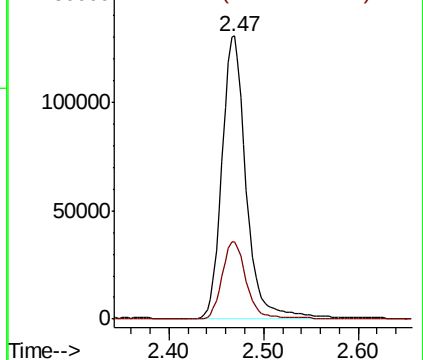
43 100

74 27.4 21.4 32.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 46.97 ug/L

RT: 2.54 min Scan# 513

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

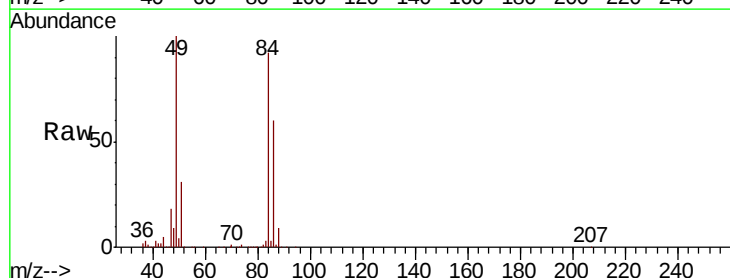
Tgt Ion: 84 Resp: 206170

Ion Ratio Lower Upper

84 100

86 64.9 44.9 83.3

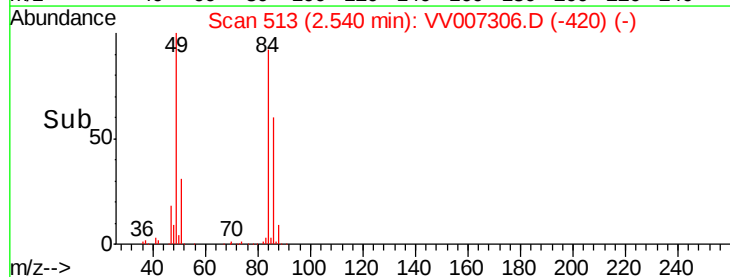
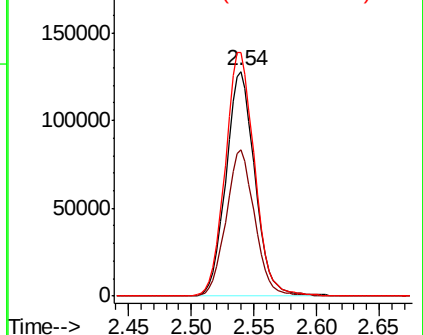
49 108.3 77.0 143.0

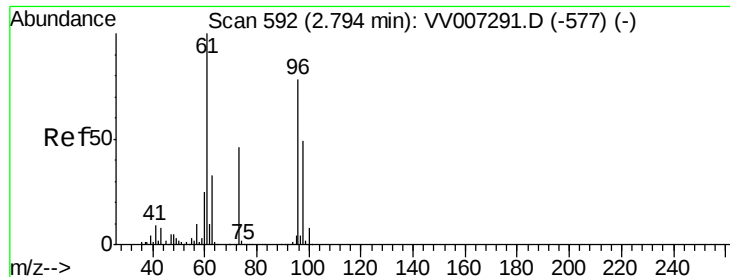


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

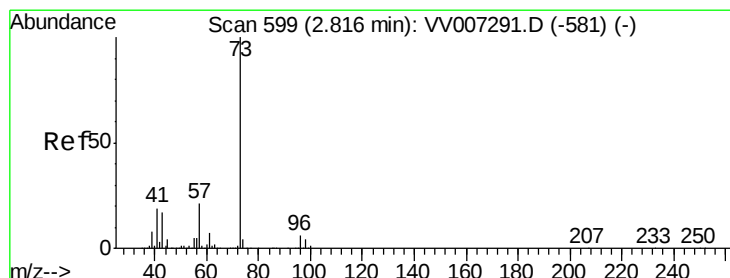
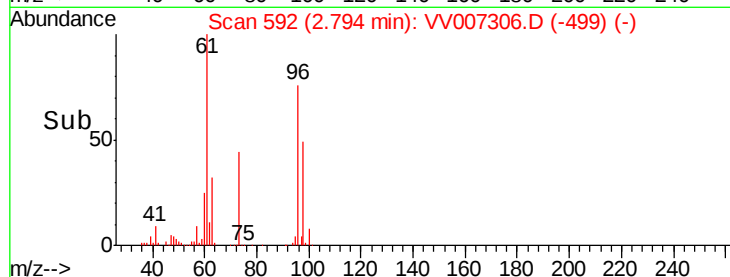
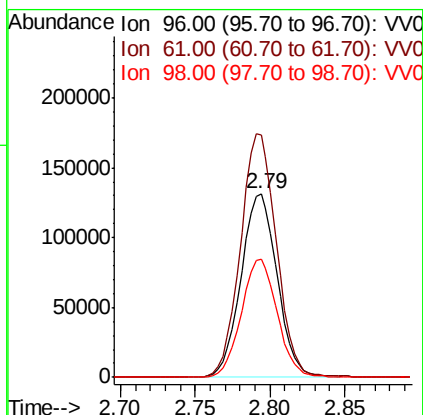
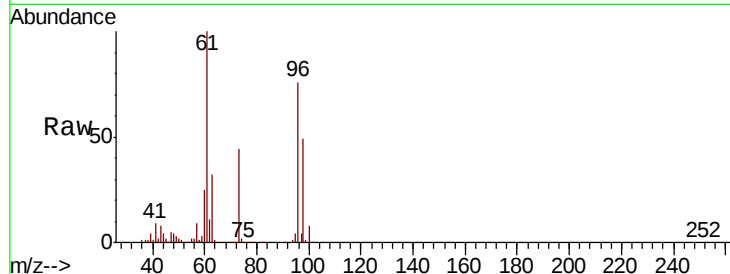




#17
trans-1,2-Dichloroethene
Concen: 54.28 ug/L
RT: 2.79 min Scan# 592
Delta R.T. 0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

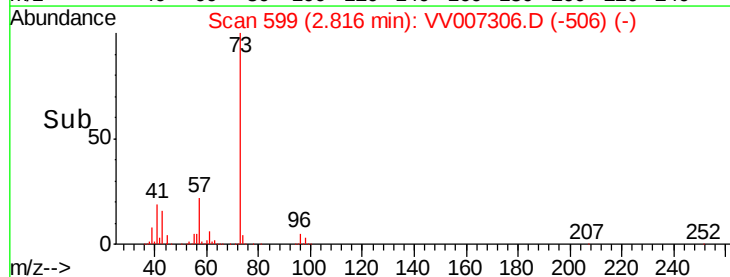
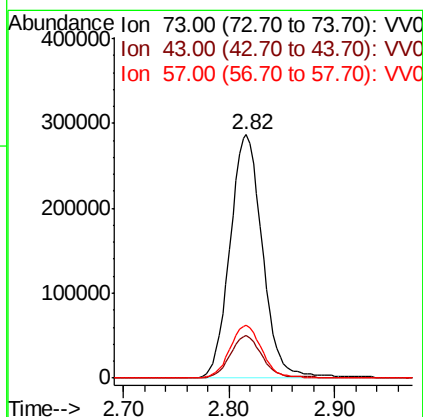
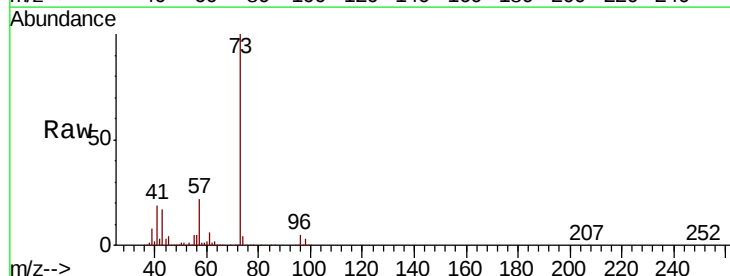
Instrument :
MSVOA_V
ClientSampleId :
E0AA4MSD

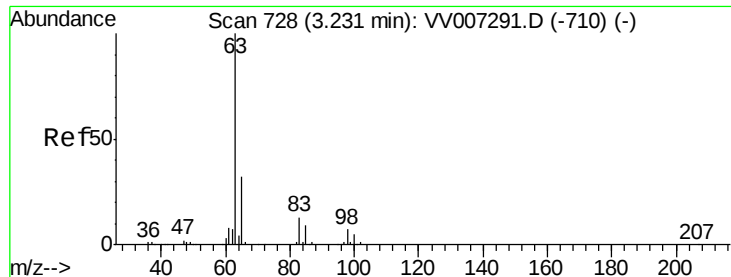
Tot Ion	Ratio	Lower	Upper
96	100		
61	131.9	90.4	167.8
98	64.5	44.2	82.0



#18
Methyl tert-butyl Ether
Concen: 49.08 ug/L
RT: 2.82 min Scan# 599
Delta R.T. 0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

Tgt Ion	Ratio	Lower	Upper
73	100		
43	17.0	13.4	20.2
57	21.4	16.8	25.2





#19

1,1-Dichloroethane

Concen: 54.55 ug/L

RT: 3.23 min Scan# 728

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampled :

E0AA4MSD

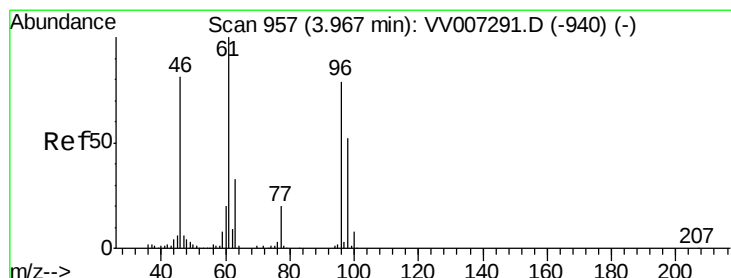
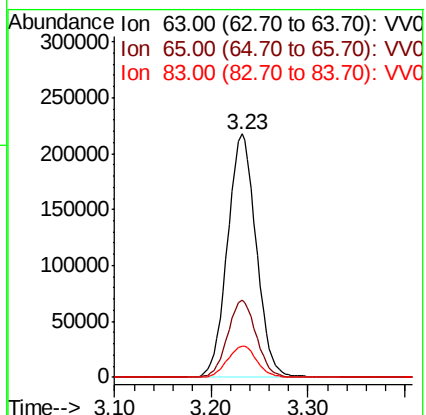
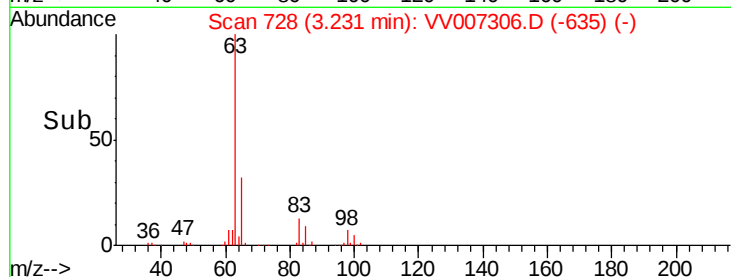
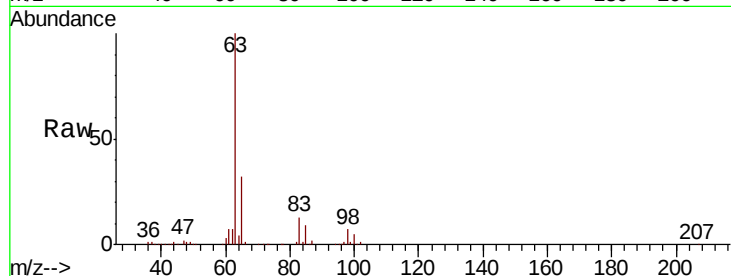
Tot Ion: 63 Resp: 448766

Ion Ratio Lower Upper

63 100

65 31.7 22.0 41.0

83 12.7 8.8 16.4



#20

cis-1,2-Dichloroethene

Concen: 249.83 ug/L

RT: 3.97 min Scan# 957

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

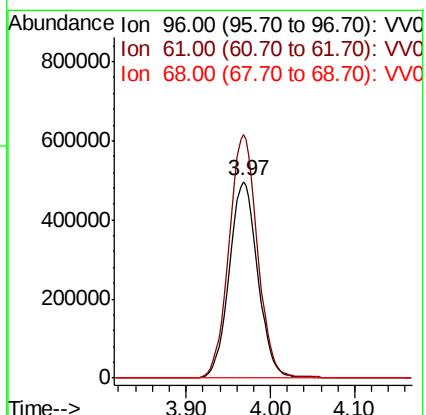
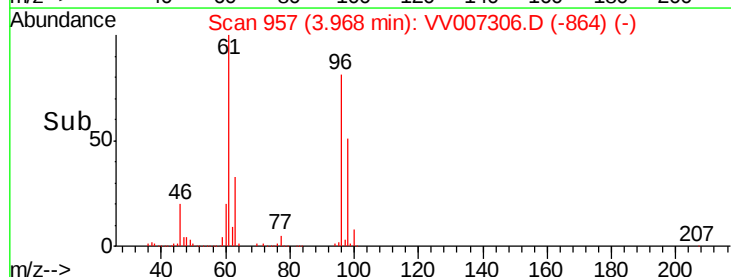
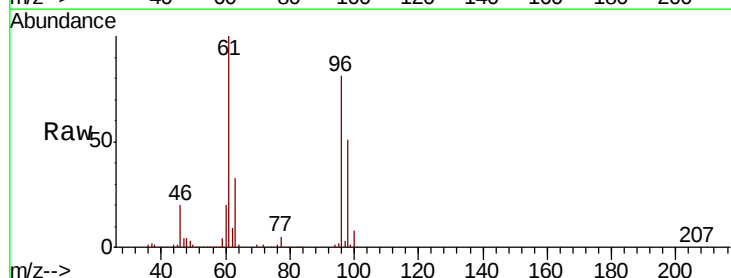
Tgt Ion: 96 Resp: 1170134

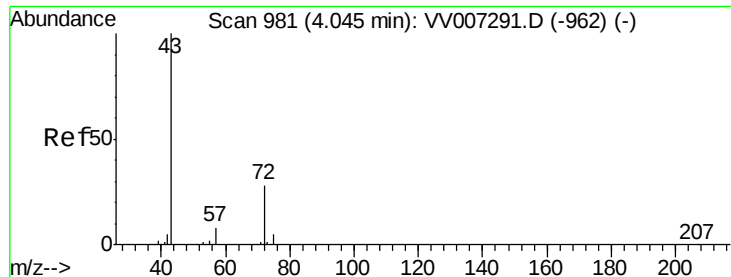
Ion Ratio Lower Upper

96 100

61 123.7 88.4 164.2

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 111.33 ug/L

RT: 4.05 min Scan# 982

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

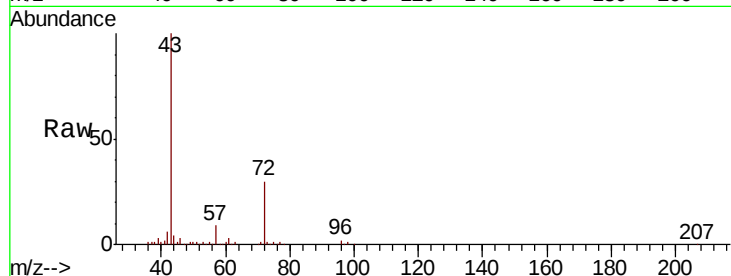
E0AA4MSD

Tot Ion: 43 Resp: 406649

Ion Ratio Lower Upper

43 100

72 26.7 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VV007291.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VV007291.D (-962) (-)

4.05

150000

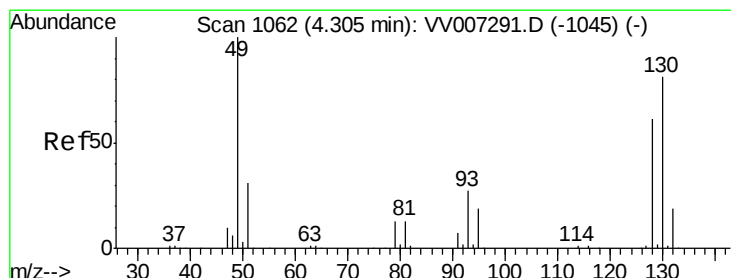
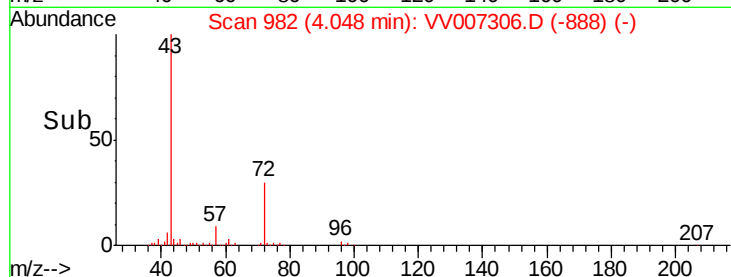
100000

50000

0

Time-->

3.90 4.00 4.10 4.20



#23

Bromochloromethane

Concen: 48.56 ug/L

RT: 4.31 min Scan# 1062

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Tgt Ion:128 Resp: 117948

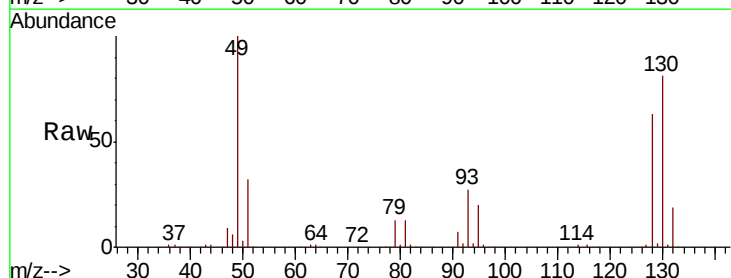
Ion Ratio Lower Upper

128 100

49 158.8 115.6 214.8

130 127.9 93.7 173.9

51 50.7 41.3 61.9



Abundance Ion 128.00 (127.70 to 128.70): VV007291.D (-1045) (-)

Ion 49.00 (48.70 to 49.70): VV007291.D (-1045) (-)

Ion 130.00 (129.70 to 130.70): VV007291.D (-1045) (-)

Ion 51.00 (50.70 to 51.70): VV007291.D (-1045) (-)

120000

100000

80000

60000

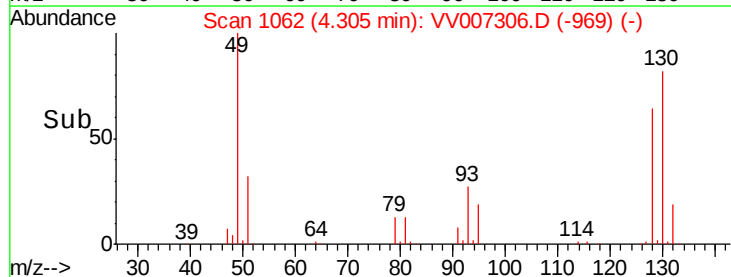
40000

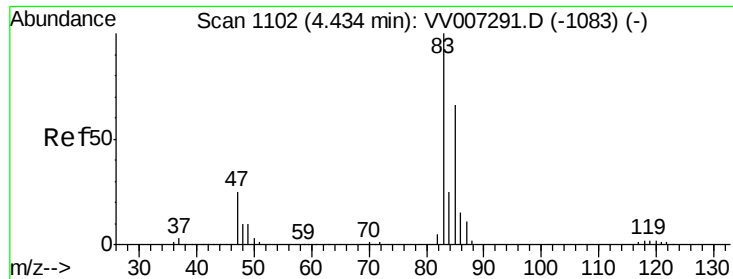
20000

0

Time-->

4.20 4.30 4.40

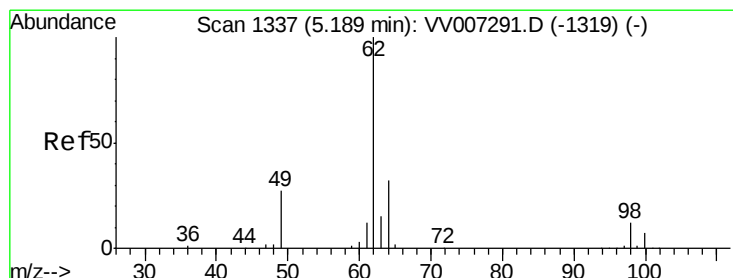
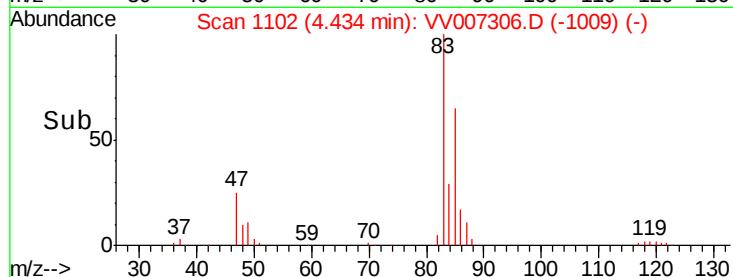
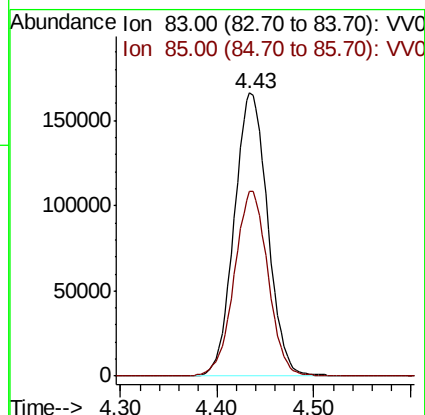
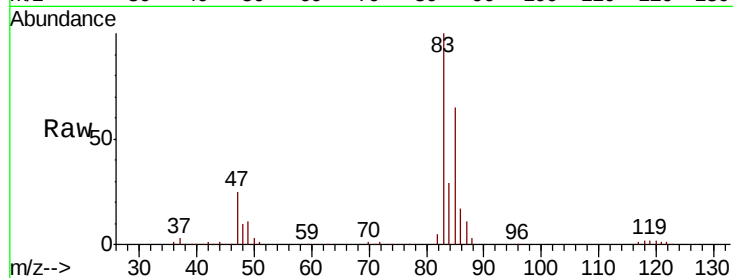




#25
Chloroform
Concen: 49.32 ug/L
RT: 4.43 min Scan# 1102
Delta R.T. 0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

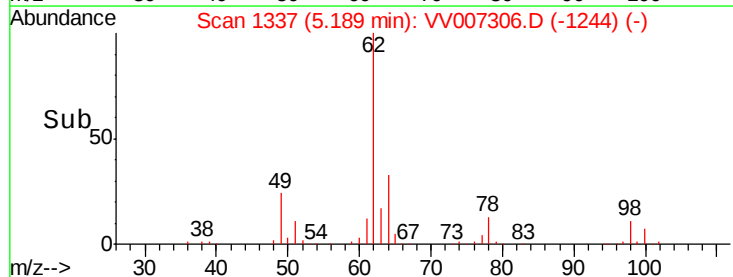
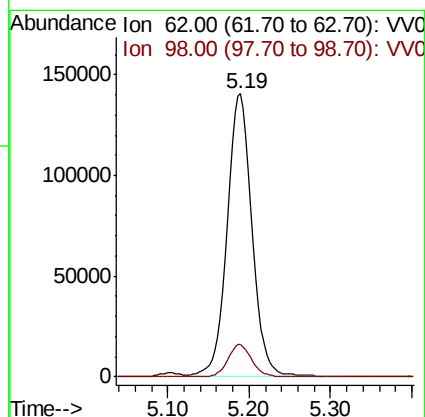
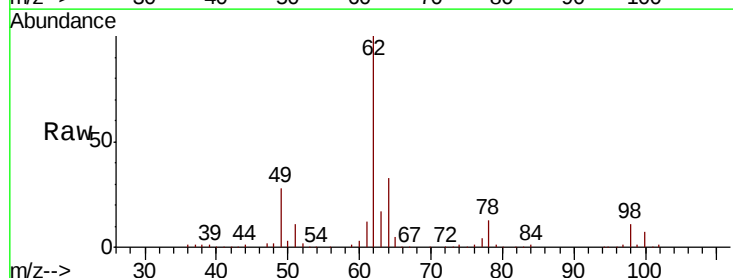
Instrument :
MSVOA_V
ClientSampleId :
E0AA4MSD

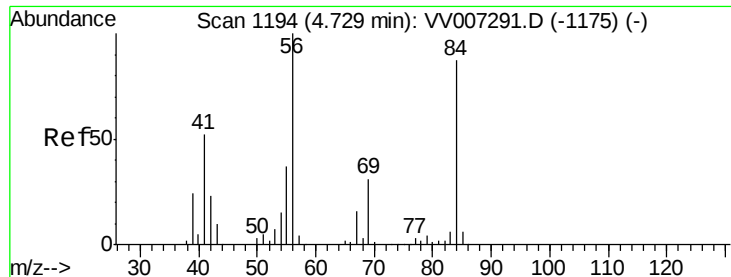
Tot Ion: 83 Resp: 399286
Ion Ratio Lower Upper
83 100
85 65.1 46.1 85.7



#27
1,2-Dichloroethane
Concen: 50.27 ug/L
RT: 5.19 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

Tgt Ion: 62 Resp: 302777
Ion Ratio Lower Upper
62 100
98 11.3 9.1 13.7

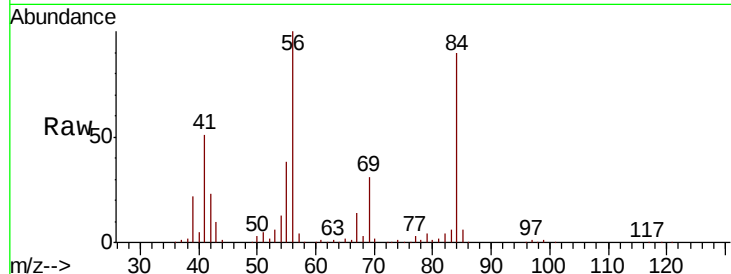




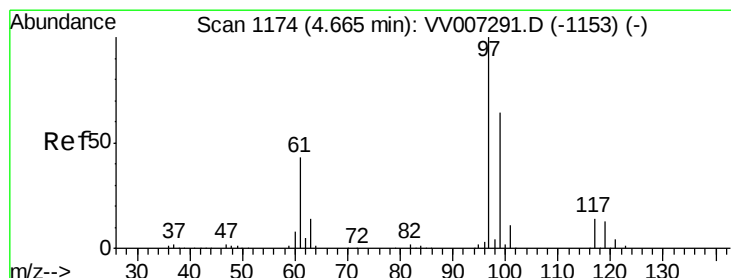
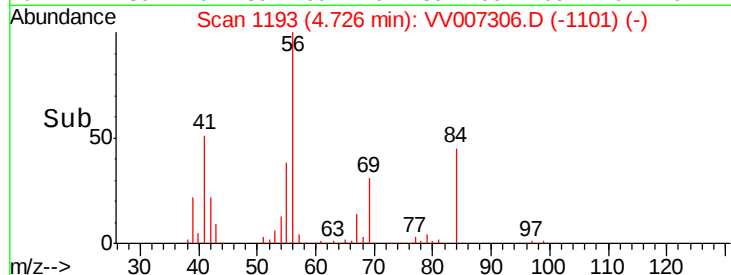
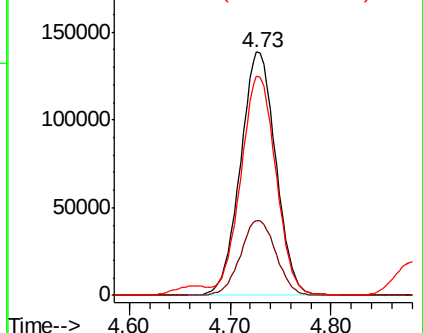
#29
Cvclohexane
Concen: 52.43 ug/L
RT: 4.73 min Scan# 1193
Delta R.T. -0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

Instrument :
MSVOA_V
ClientSampleId :
E0AA4MSD

Tot Ion: 56 Resp: 336731
Ion Ratio Lower Upper
56 100
69 31.0 24.7 37.1
84 88.6 70.8 106.2

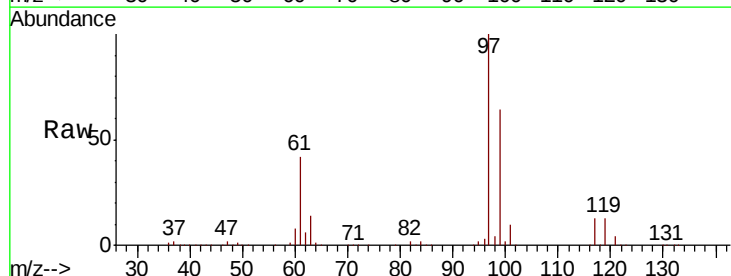


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

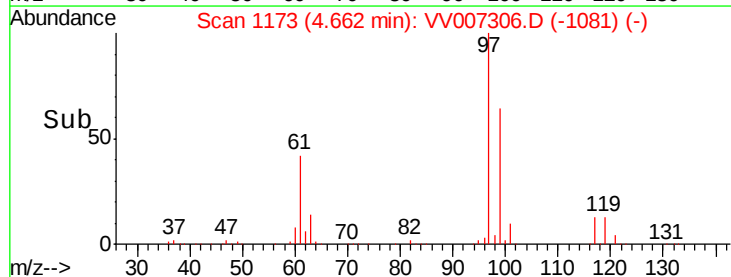
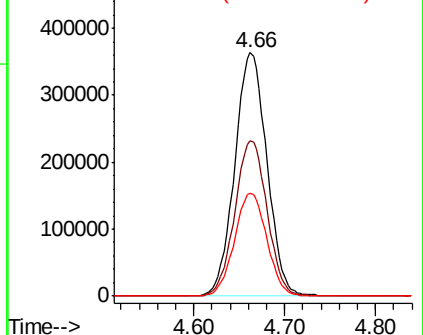


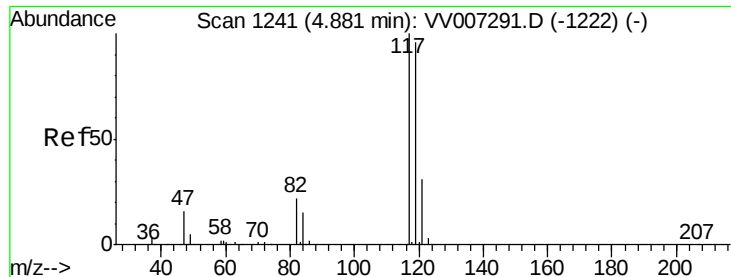
#30
1,1,1-Trichloroethane
Concen: 131.97 ug/L
RT: 4.66 min Scan# 1173
Delta R.T. -0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

Tgt Ion: 97 Resp: 893181
Ion Ratio Lower Upper
97 100
99 64.2 51.4 77.0
61 42.7 34.6 51.8



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0

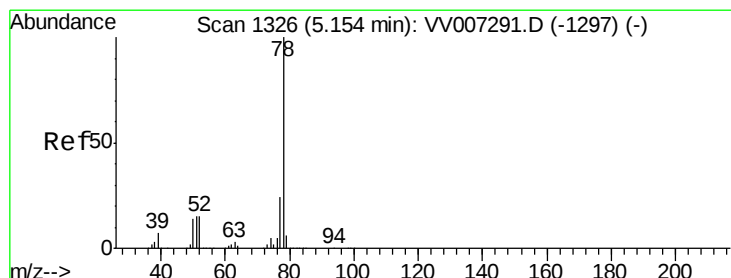
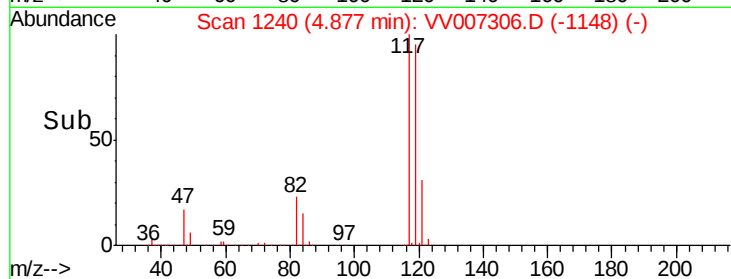
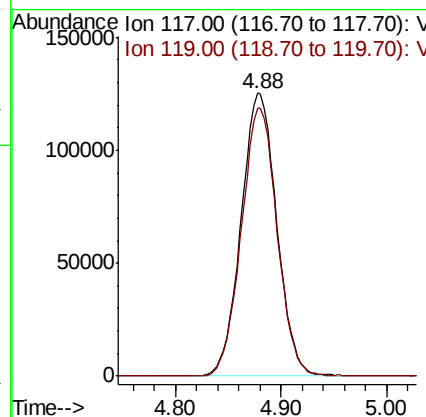
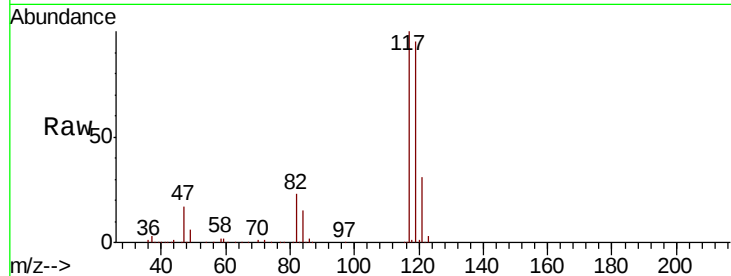




#31
Carbon tetrachloride
Concen: 50.32 ug/L
RT: 4.88 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

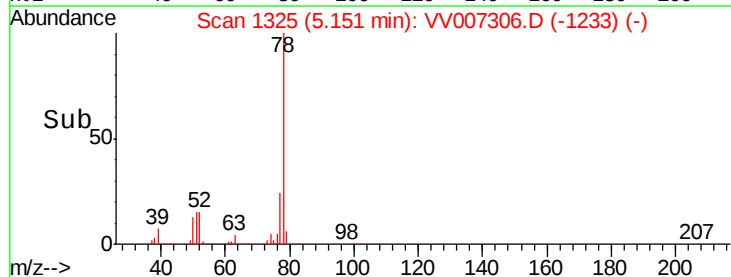
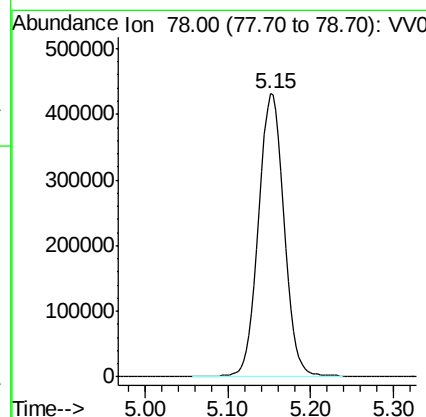
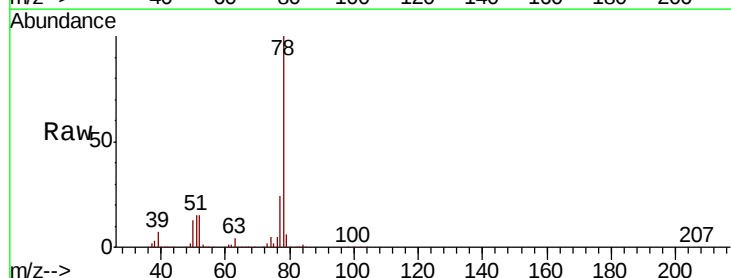
Instrument :
MSVOA_V
ClientSampleId :
E0AA4MSD

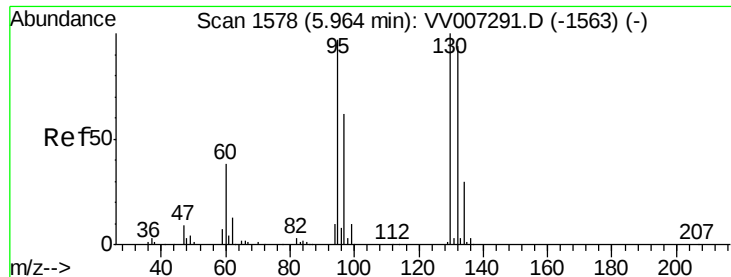
Tot Ion:117 Resp: 293930
Ion Ratio Lower Upper
117 100
119 95.0 77.1 115.7



#33
Benzene
Concen: 51.64 ug/L
RT: 5.15 min Scan# 1325
Delta R.T. -0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

Tgt Ion: 78 Resp: 930188

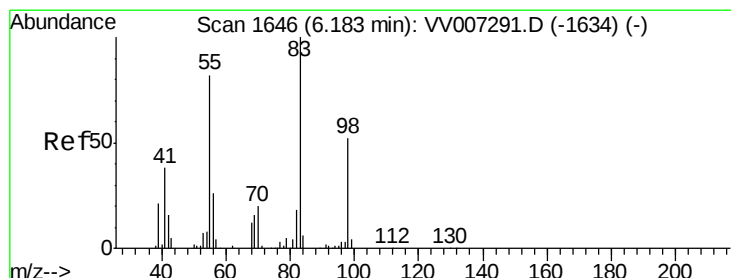
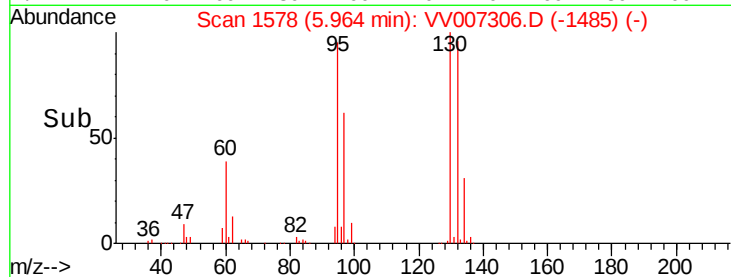
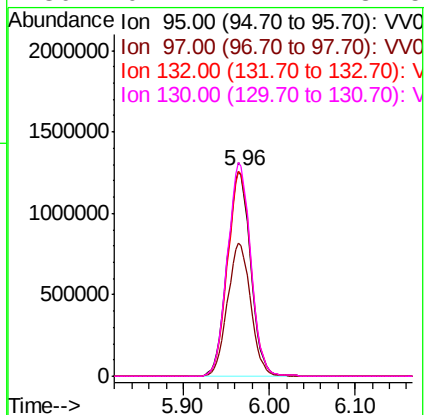
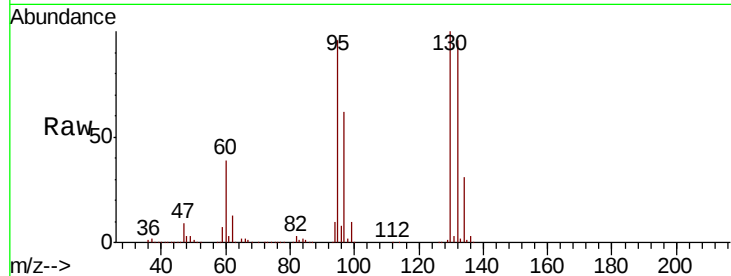




#34
 Trichloroethene
 Concen: 543.70 ug/L
 RT: 5.96 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VV007306.D
 Acq: 31 Aug 2018 17:28

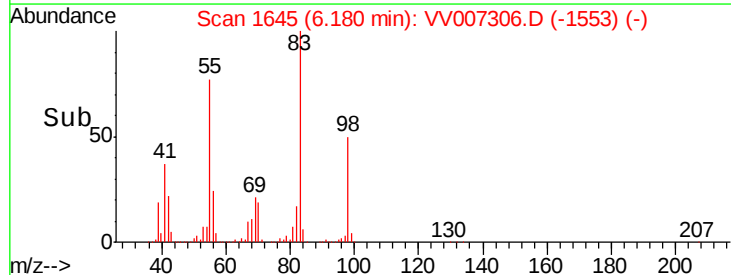
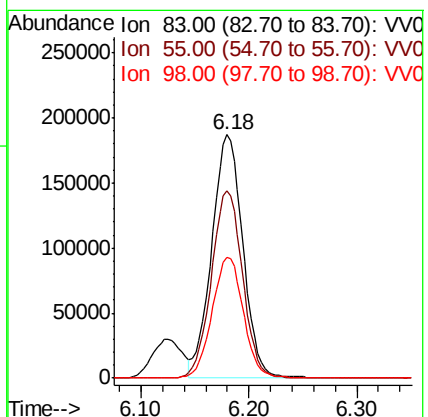
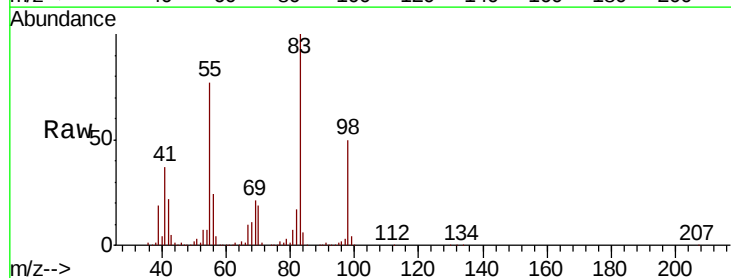
Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MSD

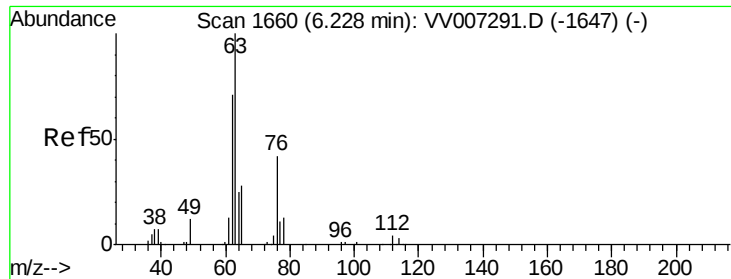
Tot Ion: 95 Resp: 2372735
 Ion Ratio Lower Upper
 95 100
 97 64.9 45.1 83.9
 132 99.7 68.3 126.9
 130 104.1 72.4 134.5



#35
 Methylcyclohexane
 Concen: 54.25 ug/L
 RT: 6.18 min Scan# 1645
 Delta R.T. -0.00 min
 Lab File: VV007306.D
 Acq: 31 Aug 2018 17:28

Tgt Ion: 83 Resp: 374267
 Ion Ratio Lower Upper
 83 100
 55 77.3 62.4 93.6
 98 49.3 39.0 58.4





#37

1,2-Dichloropropane

Concen: 49.62 ug/L

RT: 6.23 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampled :

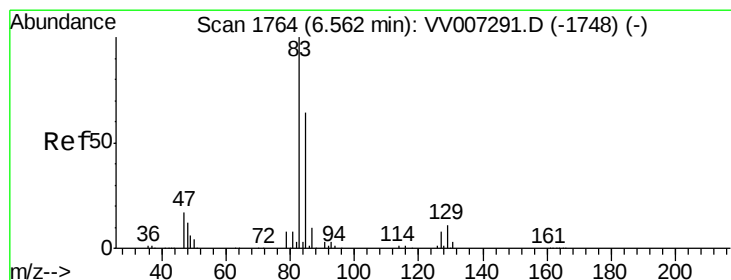
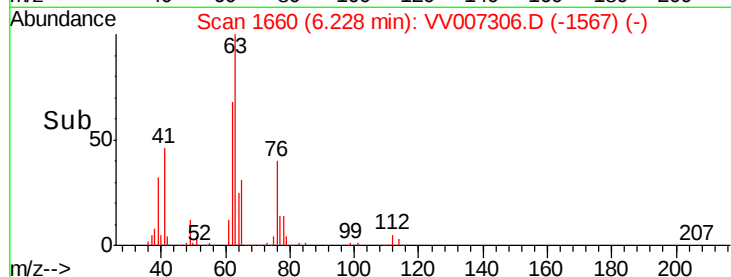
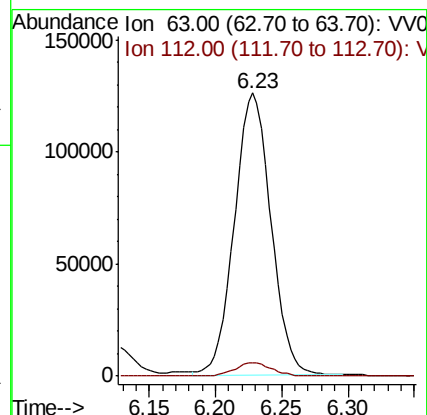
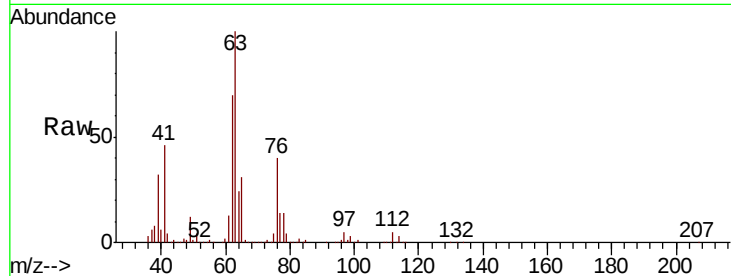
E0AA4MSD

Tot Ion: 63 Resp: 241285

Ion Ratio Lower Upper

63 100

112 4.9 3.8 5.8



#38

Bromodichloromethane

Concen: 49.12 ug/L

RT: 6.56 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

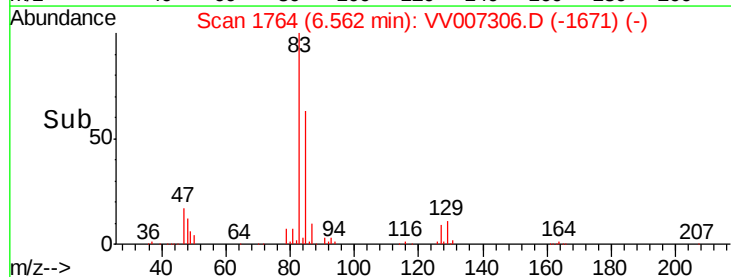
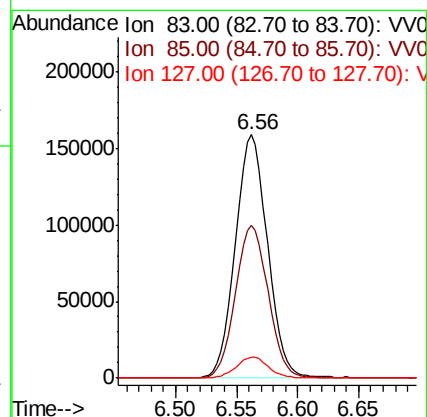
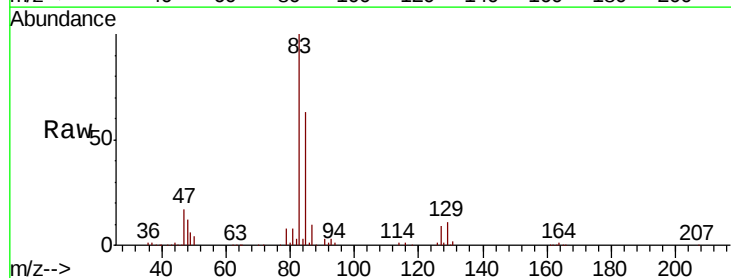
Tgt Ion: 83 Resp: 292786

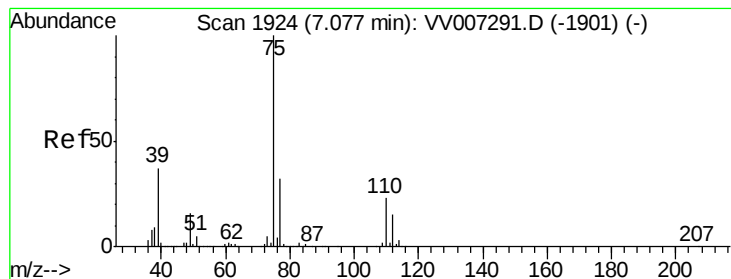
Ion Ratio Lower Upper

83 100

85 62.8 44.4 82.5

127 8.6 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 50.69 ug/L

RT: 7.08 min Scan# 1924

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

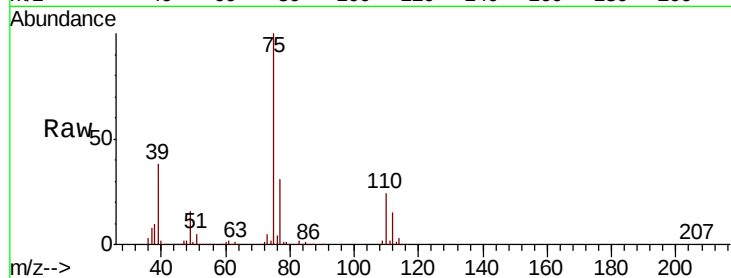
E0AA4MSD

Tot Ion: 75 Resp: 343699

Ion Ratio Lower Upper

75 100

77 31.4 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VV007291.D (-1901) (-)

Ion 77.00 (76.70 to 77.70): VV007291.D (-1901) (-)

7.08

200000

150000

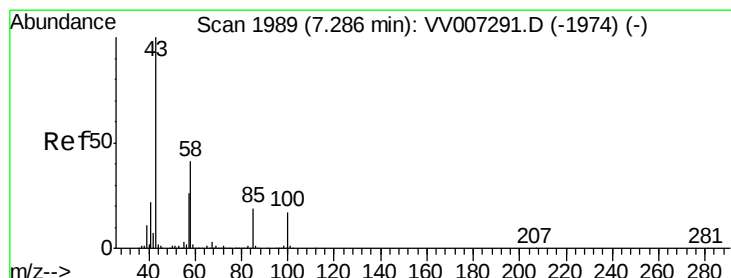
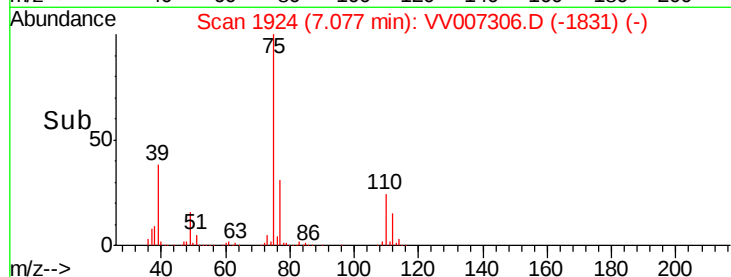
100000

50000

0

7.00 7.10 7.20

Time-->



#40

4-Methyl-2-pentanone

Concen: 127.54 ug/L

RT: 7.29 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

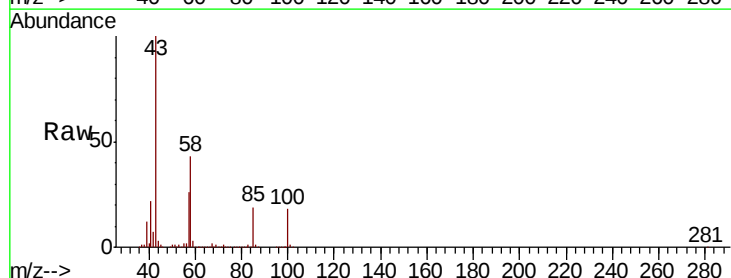
Tgt Ion: 43 Resp: 707091

Ion Ratio Lower Upper

43 100

58 42.7 32.6 49.0

100 17.2 13.4 20.0



Abundance Ion 43.00 (42.70 to 43.70): VV007291.D (-1974) (-)

Ion 58.00 (57.70 to 58.70): VV007291.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VV007291.D (-1974) (-)

7.29

500000

400000

300000

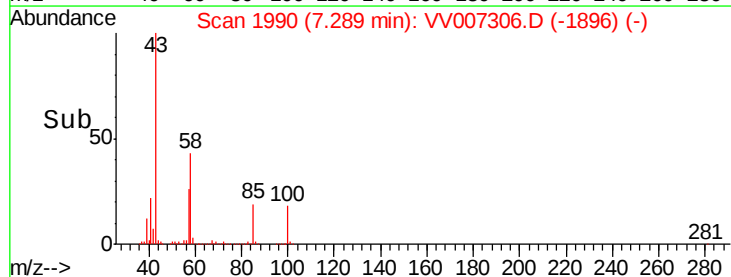
200000

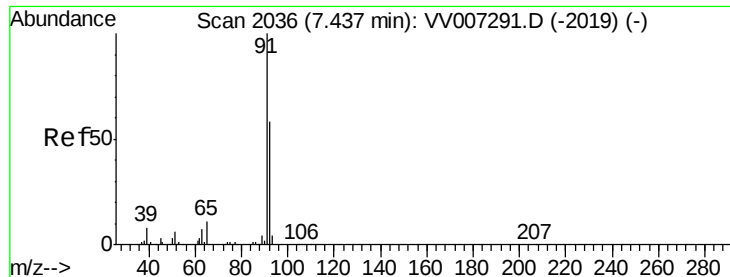
100000

0

7.20 7.25 7.30 7.35

Time-->





#42

Toluene

Concen: 52.42 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

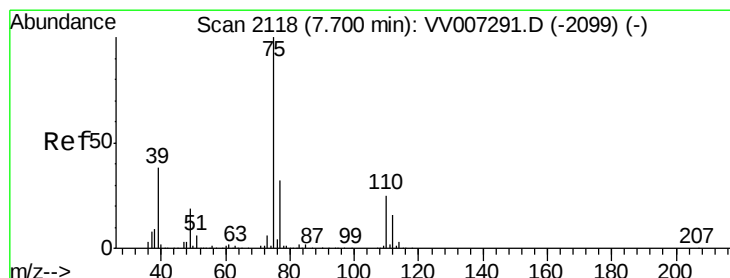
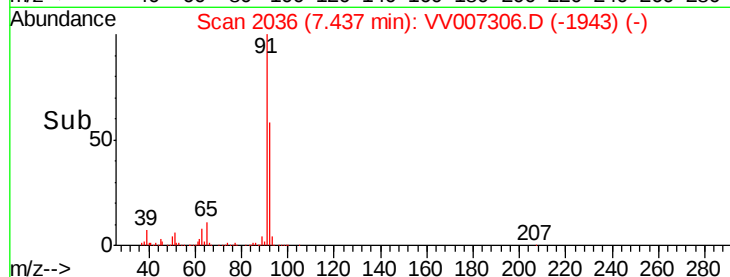
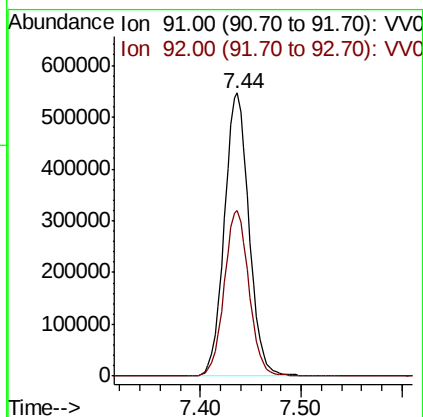
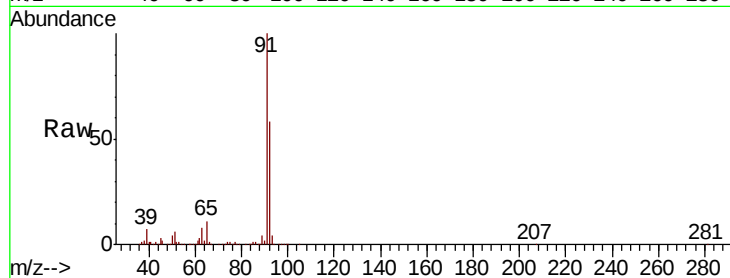
E0AA4MSD

Tot Ion: 91 Resp: 932457

Ion Ratio Lower Upper

91 100

92 58.4 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 50.92 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VV007306.D

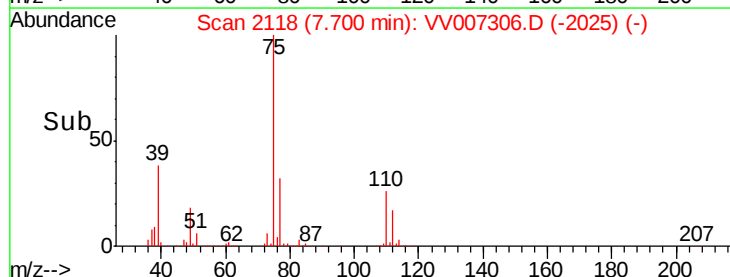
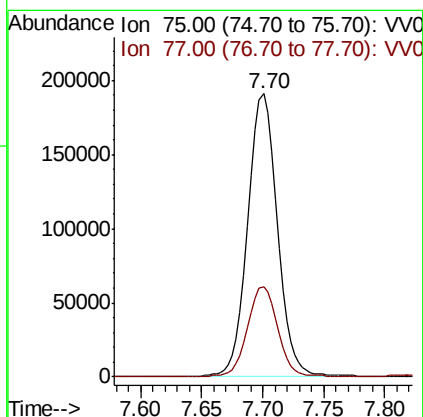
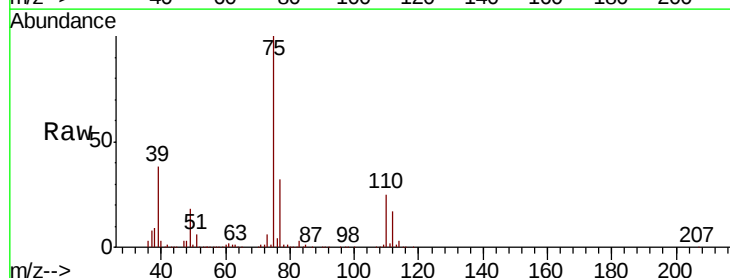
Acq: 31 Aug 2018 17:28

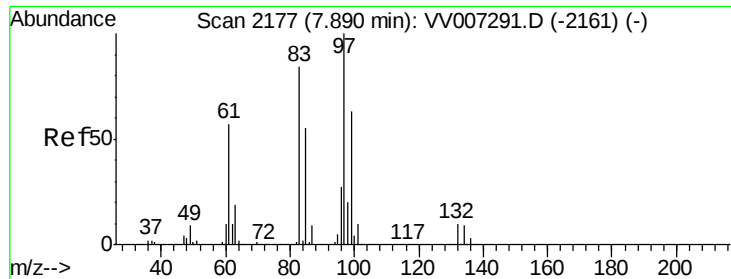
Tgt Ion: 75 Resp: 320724

Ion Ratio Lower Upper

75 100

77 32.0 22.7 42.1

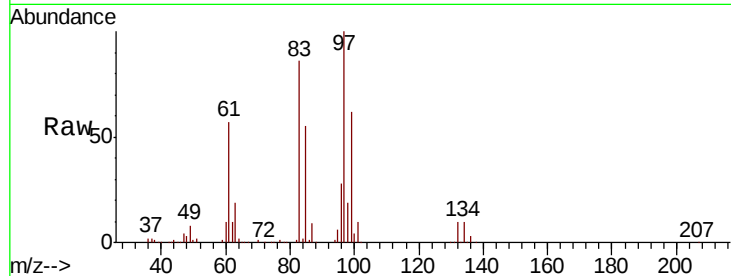




#45
 1,1,2-Trichloroethane
 Concen: 50.51 ug/L
 RT: 7.89 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VV007306.D
 Acq: 31 Aug 2018 17:28

Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MSD

Tot Ion:	97	Resp:	228653
Ion	Ratio	Lower	Upper
97	100		
99	62.3	44.0	81.6
83	85.9	59.0	109.6
85	55.3	38.9	72.2



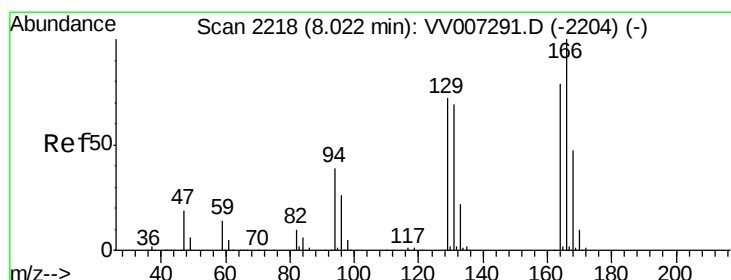
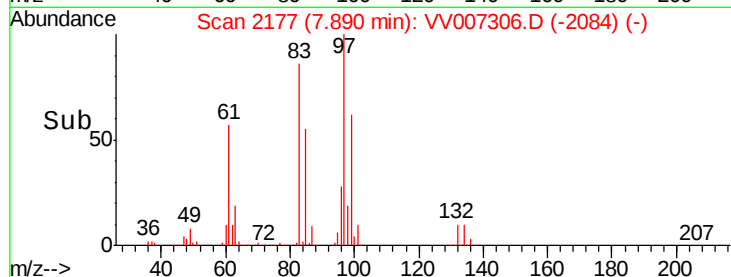
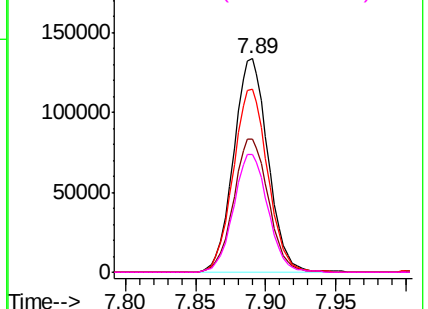
Abundance

Ion 97.00 (96.70 to 97.70): VV007306.D (-2177) (-)

Ion 99.00 (98.70 to 99.70): VV007306.D (-2177) (-)

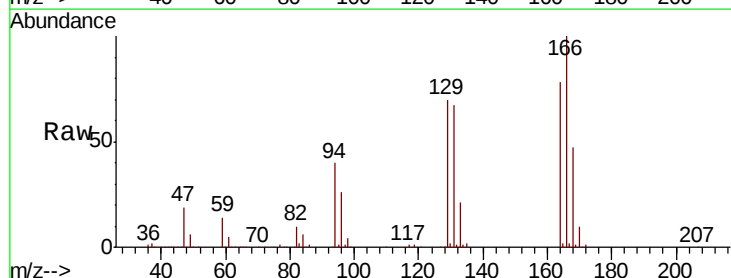
Ion 83.00 (82.70 to 83.70): VV007306.D (-2177) (-)

Ion 85.00 (84.70 to 85.70): VV007306.D (-2177) (-)



#46
 Tetrachloroethene
 Concen: 72.11 ug/L
 RT: 8.02 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VV007306.D
 Acq: 31 Aug 2018 17:28

Tgt Ion:	164	Resp:	263795
Ion	Ratio	Lower	Upper
164	100		
129	89.6	64.5	119.7
131	85.7	61.2	113.8
166	127.5	89.1	165.5



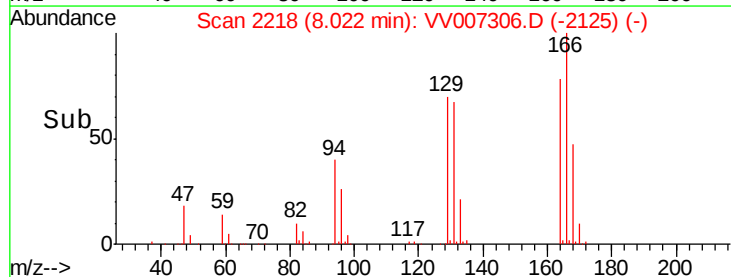
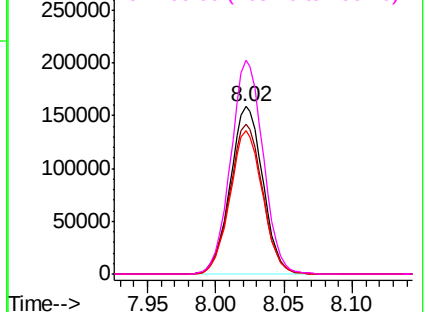
Abundance

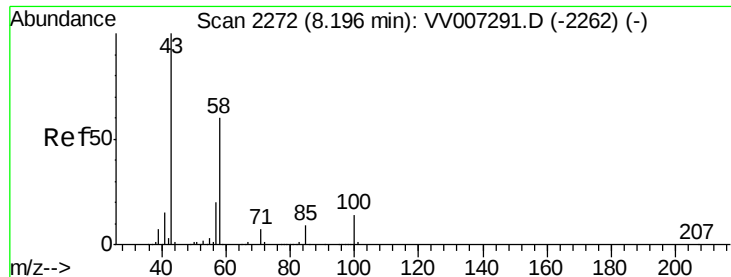
Ion 164.00 (163.70 to 164.70): VV007306.D (-2218) (-)

Ion 129.00 (128.70 to 129.70): VV007306.D (-2218) (-)

Ion 131.00 (130.70 to 131.70): VV007306.D (-2218) (-)

Ion 166.00 (165.70 to 166.70): VV007306.D (-2218) (-)

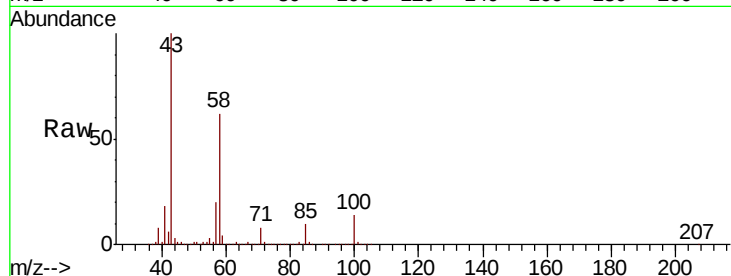




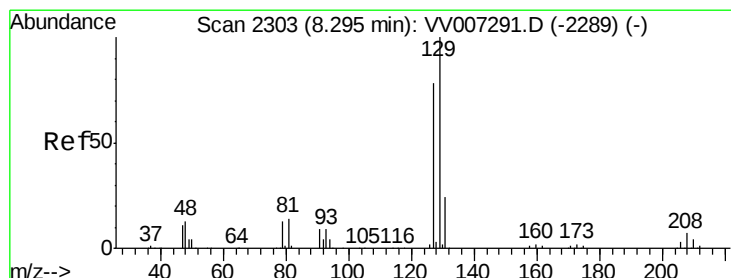
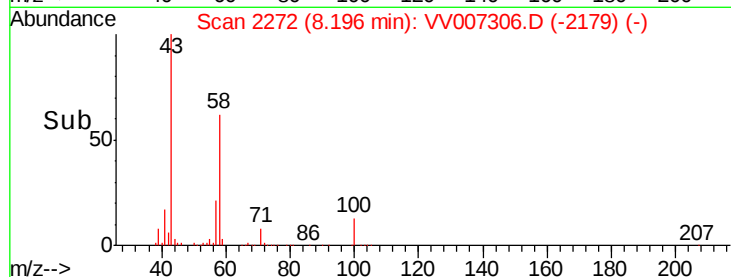
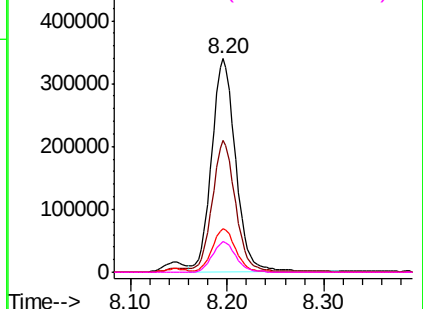
#48
2-Hexanone
Concen: 129.66 ug/L
RT: 8.20 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

Instrument :
MSVOA_V
ClientSampleId :
E0AA4MSD

Tot Ion:	43	Resp:	581995
Ion	Ratio	Lower	Upper
43	100		
58	60.4	48.2	72.4
57	19.6	15.9	23.9
100	13.9	11.0	16.4

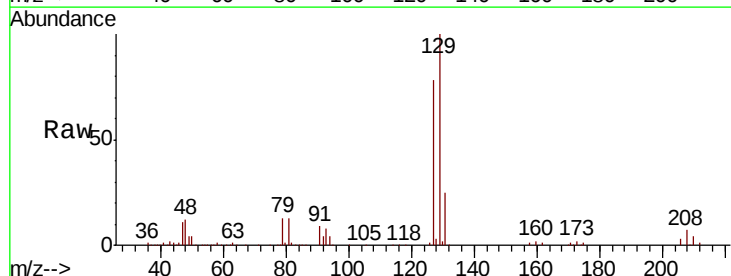


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

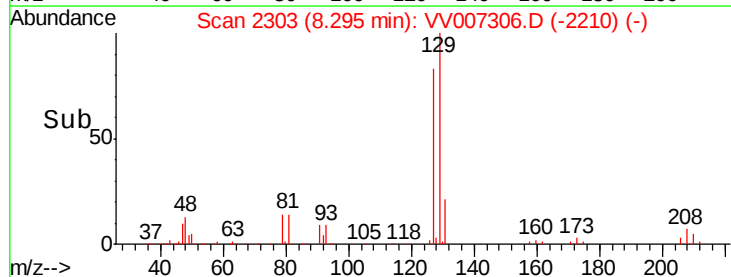
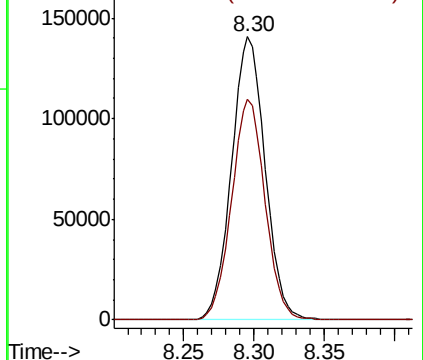


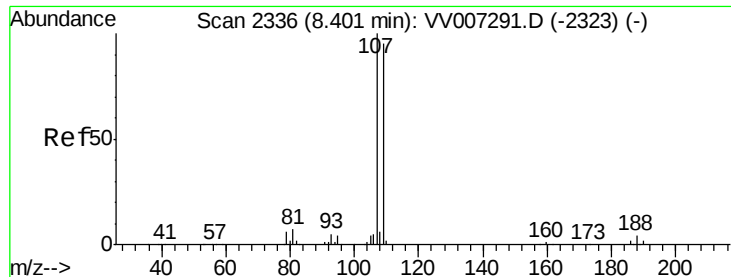
#49
Dibromochloromethane
Concen: 49.41 ug/L
RT: 8.30 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VV007306.D
Acq: 31 Aug 2018 17:28

Tgt Ion:	129	Resp:	234799
Ion	Ratio	Lower	Upper
129	100		
127	78.2	54.4	101.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

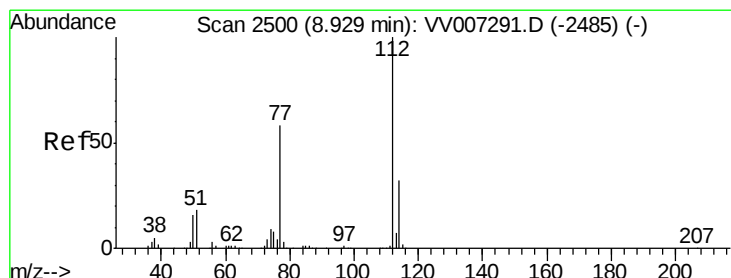
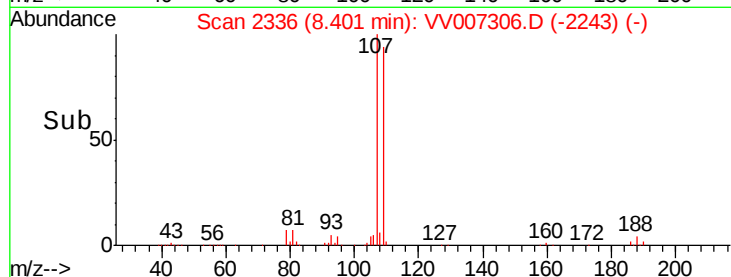
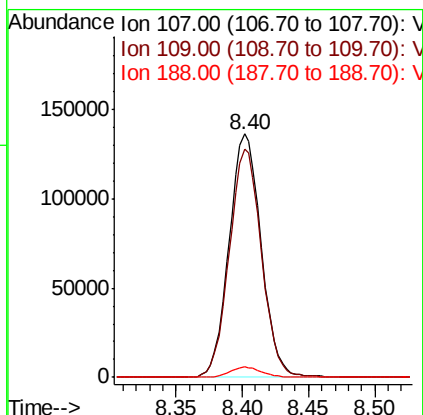
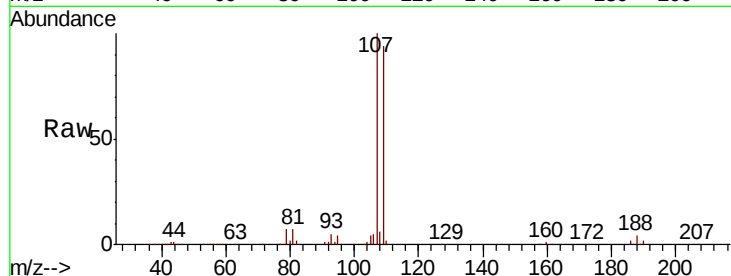




#50
 1,2-Dibromoethane
 Concen: 50.67 ug/L
 RT: 8.40 min Scan# 2336
 Delta R.T. 0.00 min
 Lab File: VV007306.D
 Acq: 31 Aug 2018 17:28

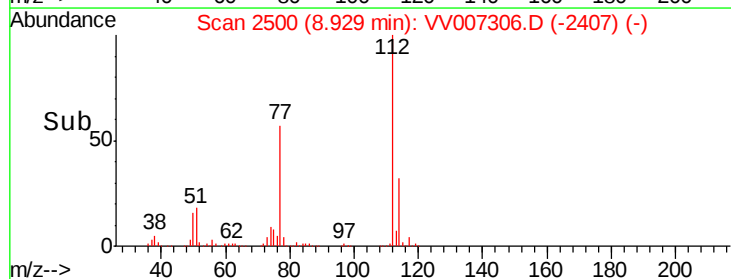
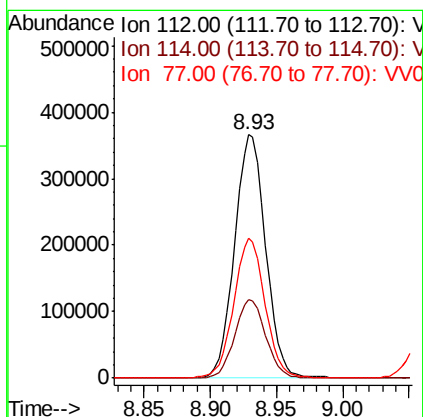
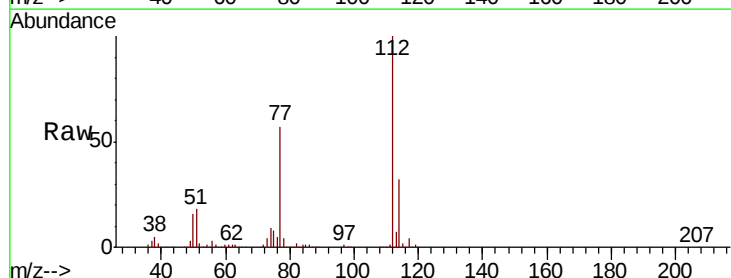
Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MSD

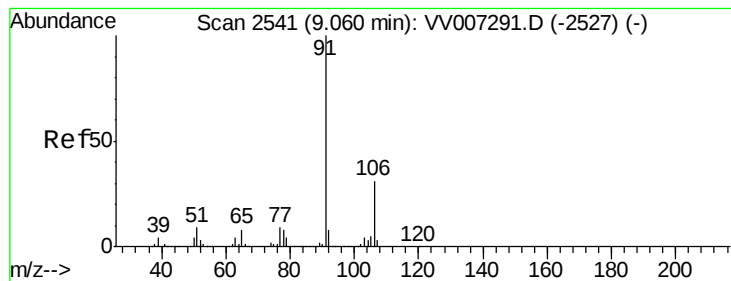
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	66.7	123.9
188	4.2	3.3	4.9



#51
 Chlorobenzene
 Concen: 49.88 ug/L
 RT: 8.93 min Scan# 2500
 Delta R.T. 0.00 min
 Lab File: VV007306.D
 Acq: 31 Aug 2018 17:28

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.4	41.6
77	57.4	46.2	69.4





#52

Ethylbenzene

Concen: 51.91 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

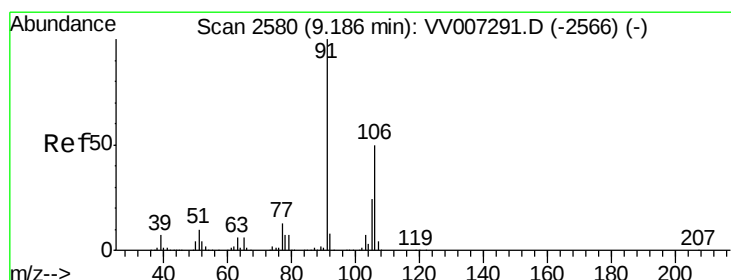
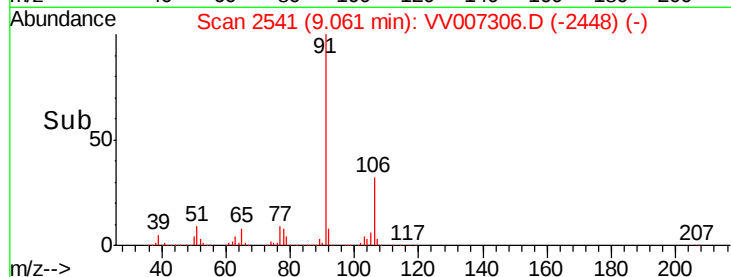
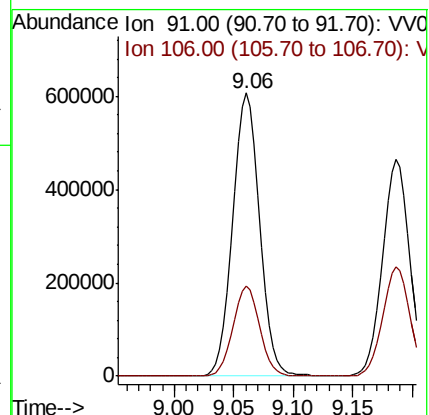
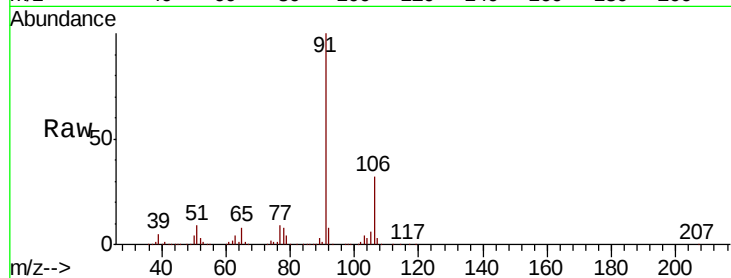
E0AA4MSD

Tot Ion: 91 Resp: 955010

Ion Ratio Lower Upper

91 100

106 31.7 21.7 40.3



#53

m,p-Xylene

Concen: 53.72 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. 0.00 min

Lab File: VV007306.D

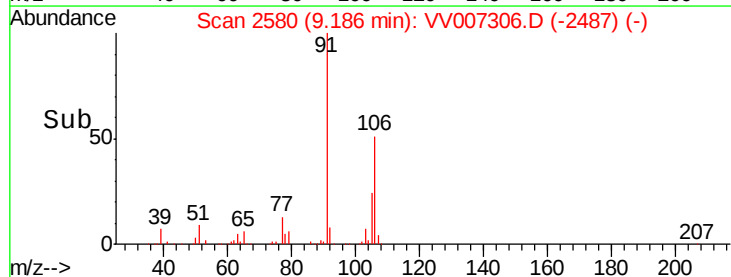
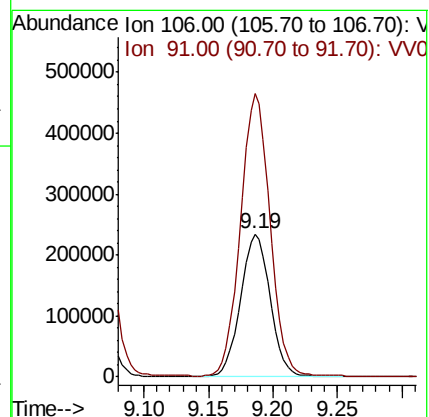
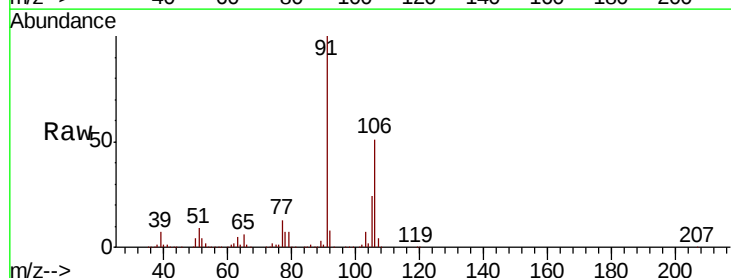
Acq: 31 Aug 2018 17:28

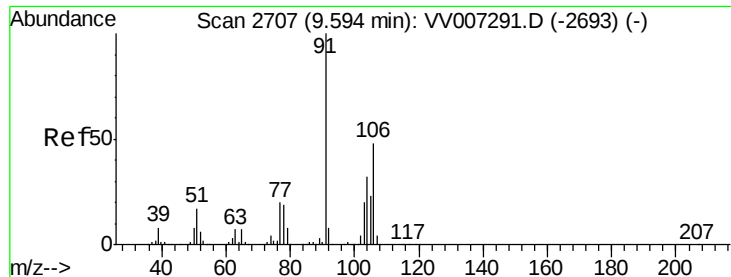
Tgt Ion: 106 Resp: 373115

Ion Ratio Lower Upper

106 100

91 197.7 140.1 260.3





#54

o-xylene

Concen: 53.67 ug/L

RT: 9.59 min Scan# 2706

Delta R.T. -0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

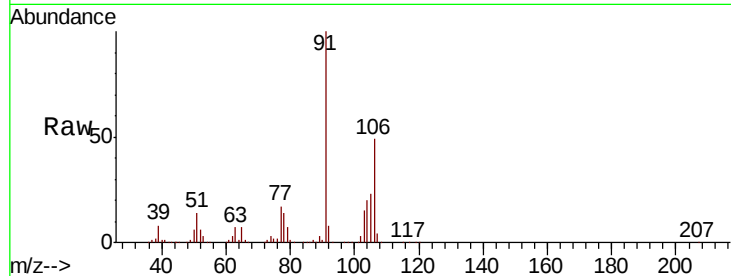
E0AA4MSD

Tot Ion:106 Resp: 361843

Ion Ratio Lower Upper

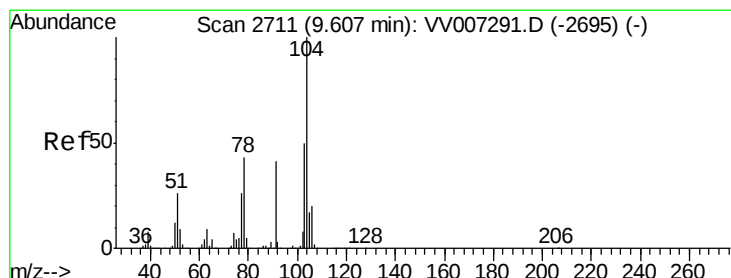
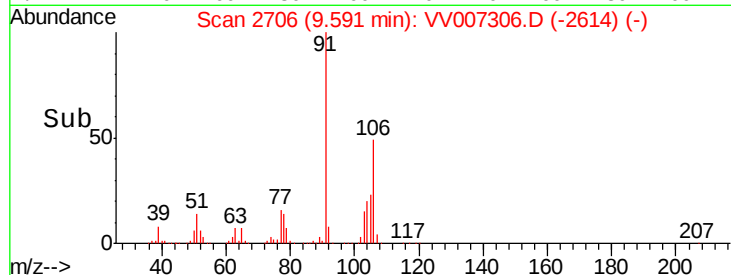
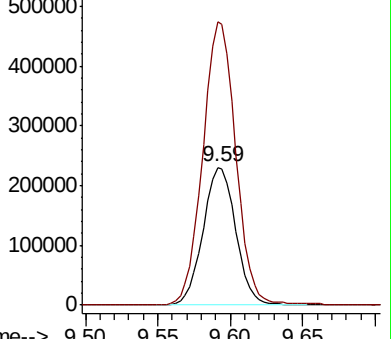
106 100

91 205.8 145.6 270.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 56.08 ug/L

RT: 9.61 min Scan# 2711

Delta R.T. 0.00 min

Lab File: VV007306.D

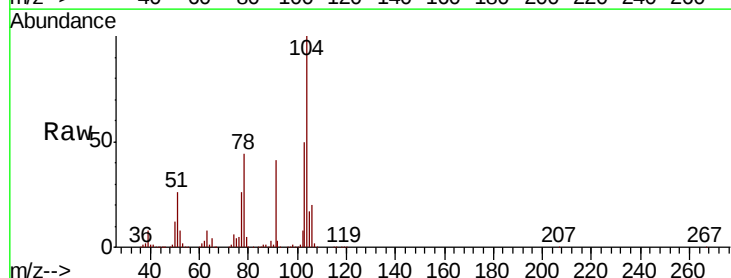
Acq: 31 Aug 2018 17:28

Tgt Ion:104 Resp: 658388

Ion Ratio Lower Upper

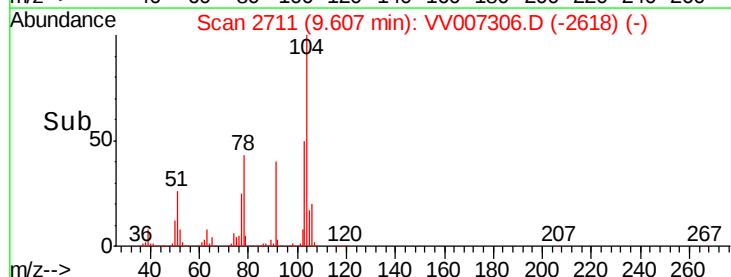
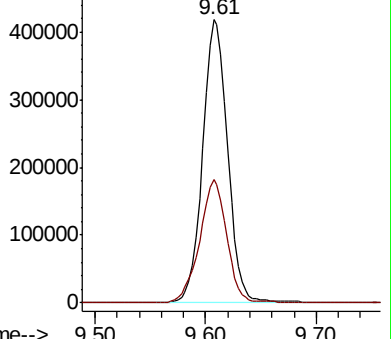
104 100

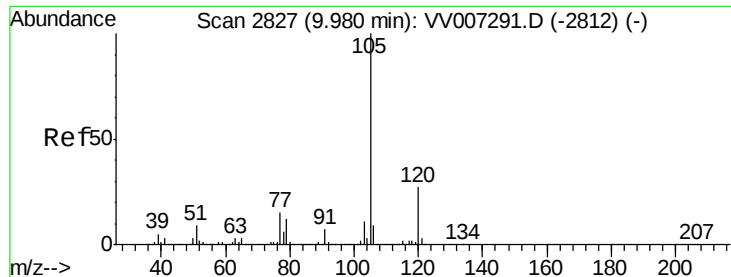
78 43.5 30.2 56.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 54.50 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MSD

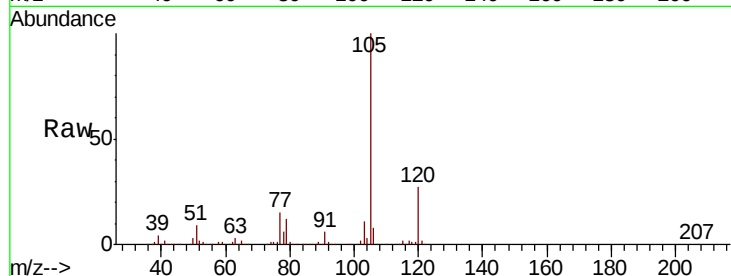
Tot Ion:105 Resp: 933008

Ion Ratio Lower Upper

105 100

120 26.6 21.3 31.9

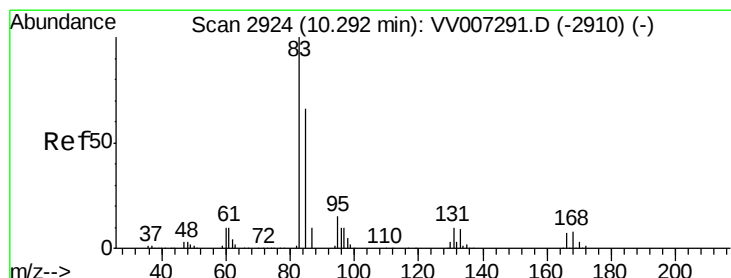
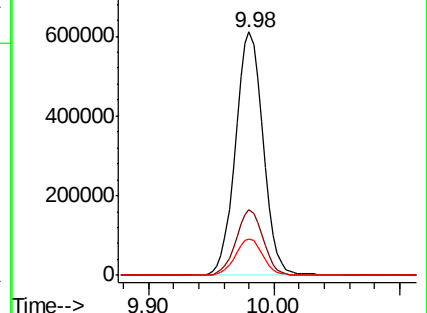
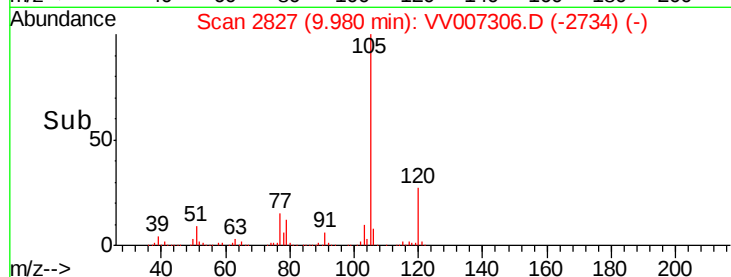
77 15.0 12.1 18.1



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: 53.84 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

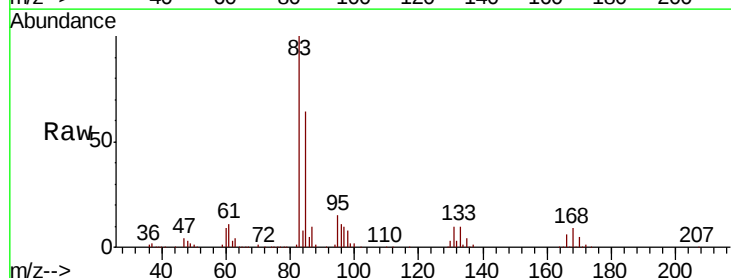
Tgt Ion: 83 Resp: 393194

Ion Ratio Lower Upper

83 100

85 63.7 46.1 85.5

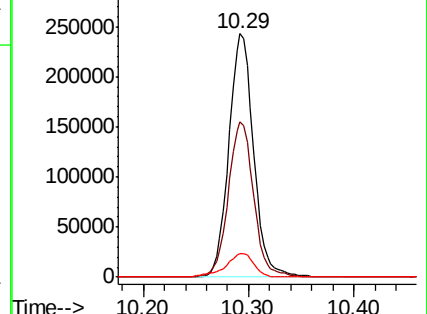
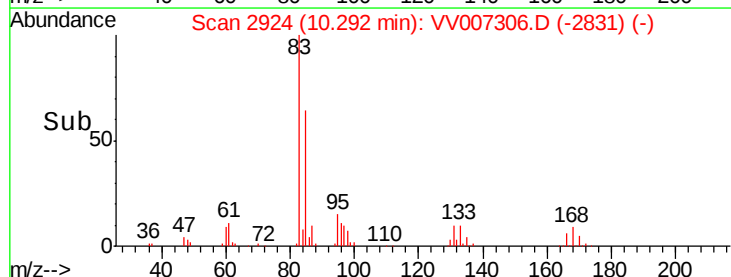
131 9.9 7.9 11.9

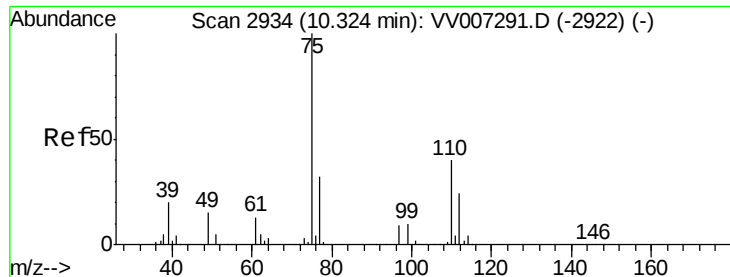


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 54.64 ug/L

RT: 10.32 min Scan# 2934

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

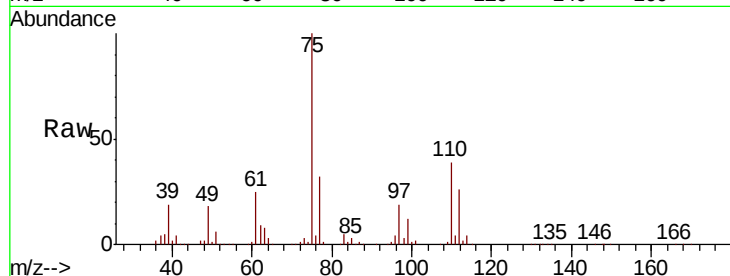
E0AA4MSD

Tot Ion: 75 Resp: 315297

Ion Ratio Lower Upper

75 100

77 31.9 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV007291.D (-2922) (-)

Ion 77.00 (76.70 to 77.70): VV007291.D (-2922) (-)

10.32

200000

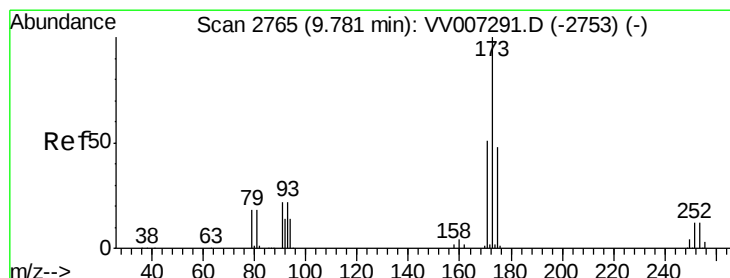
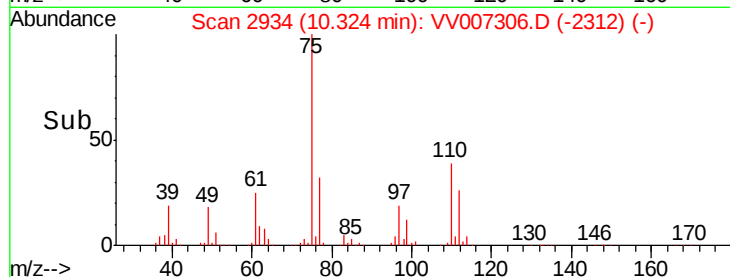
150000

100000

50000

0

Time--> 10.25 10.30 10.35 10.40



#61

Bromoform

Concen: 48.83 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

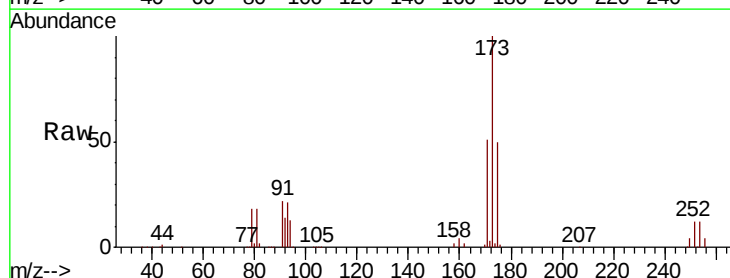
Tgt Ion: 173 Resp: 177712

Ion Ratio Lower Upper

173 100

175 49.3 38.3 57.5

254 11.4 9.4 14.2



Abundance Ion 173.00 (172.70 to 173.70): VV007291.D (-2753) (-)

Ion 175.00 (174.70 to 175.70): VV007291.D (-2753) (-)

Ion 254.00 (253.70 to 254.70): VV007291.D (-2753) (-)

9.78

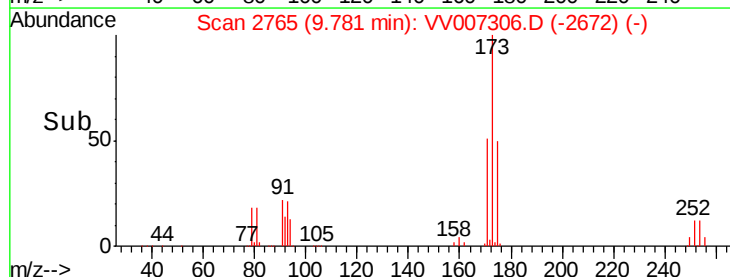
150000

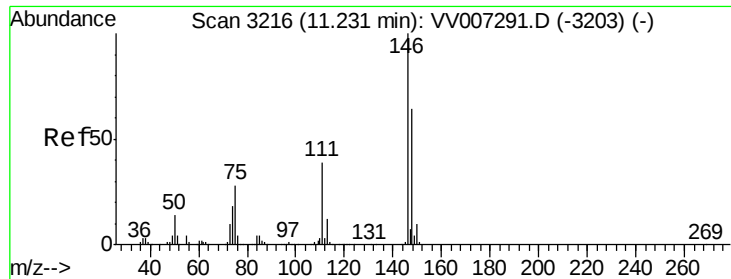
100000

50000

0

Time--> 9.70 9.75 9.80 9.85





#62

1,3-Dichlorobenzene

Concen: 49.90 ug/L

RT: 11.23 min Scan# 3216

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MSD

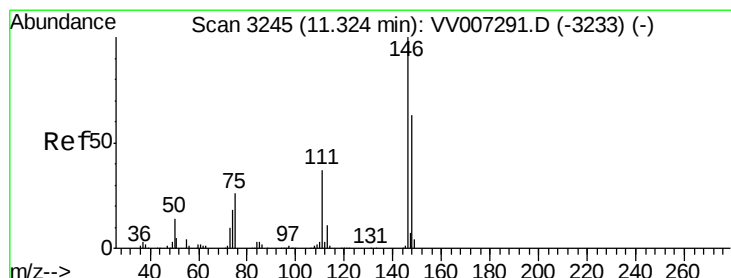
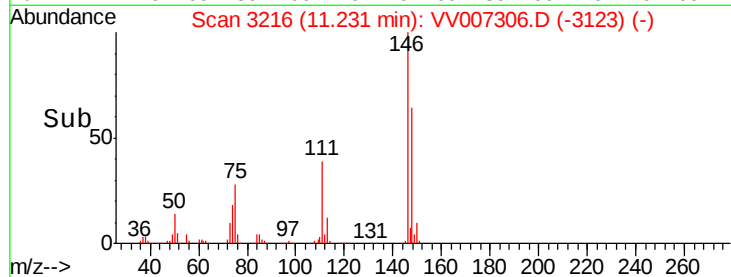
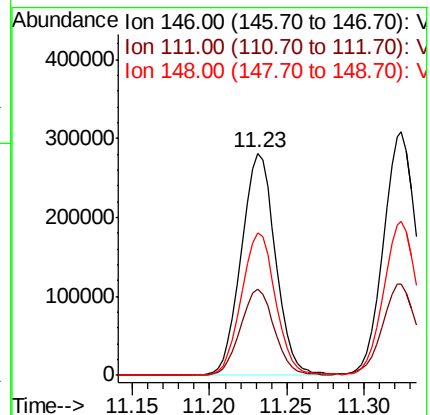
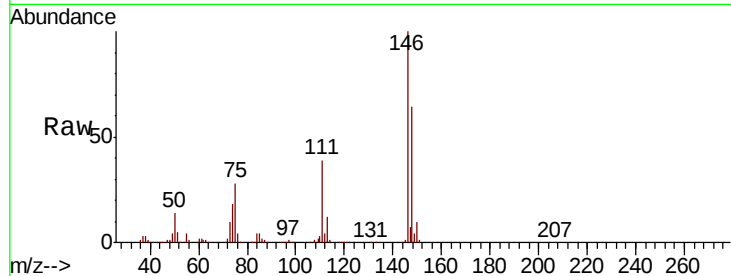
Tot Ion:146 Resp: 434525

Ion Ratio Lower Upper

146 100

111 38.9 27.2 50.6

148 64.1 45.1 83.7



#63

1,4-Dichlorobenzene

Concen: 50.25 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

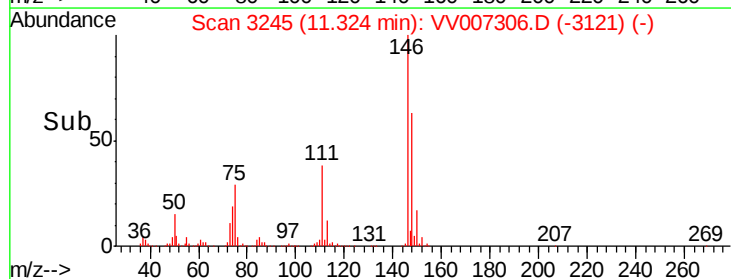
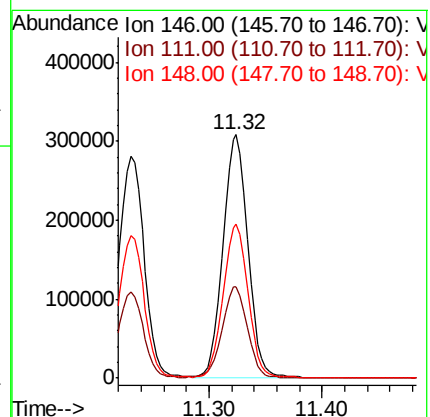
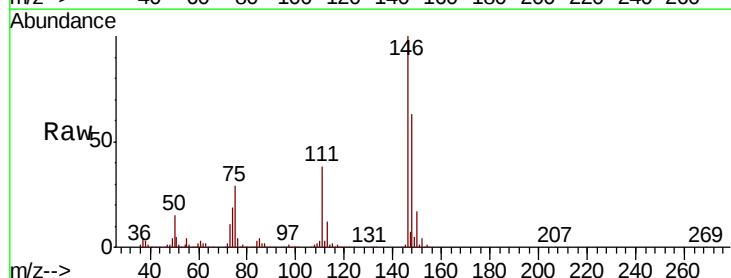
Tgt Ion:146 Resp: 474284

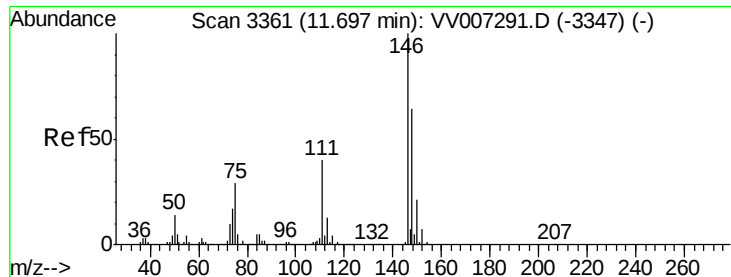
Ion Ratio Lower Upper

146 100

111 37.6 25.8 48.0

148 63.4 44.2 82.2





#65

1,2-Dichlorobenzene

Concen: 52.01 ug/L

RT: 11.69 min Scan# 3360

Delta R.T. -0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MSD

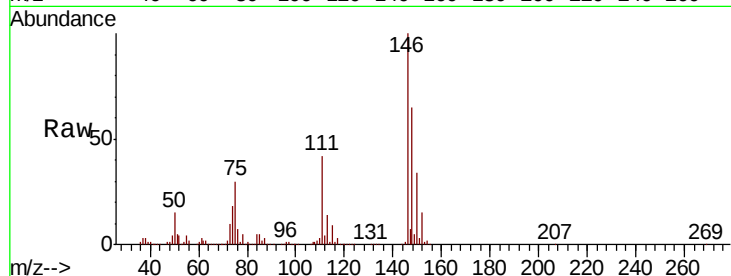
Tot Ion:146 Resp: 494571

Ion Ratio Lower Upper

146 100

111 41.6 32.2 48.2

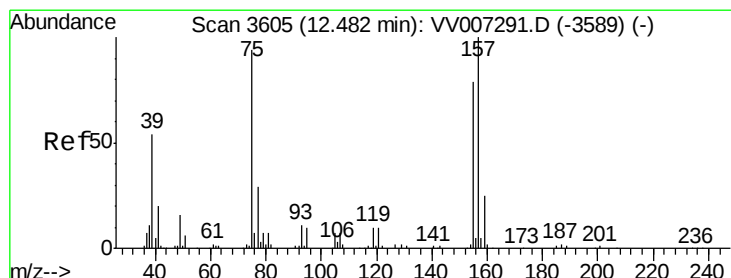
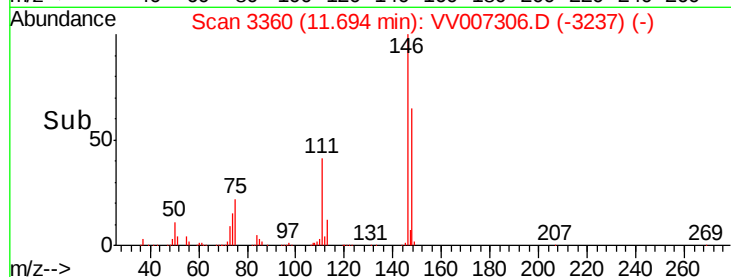
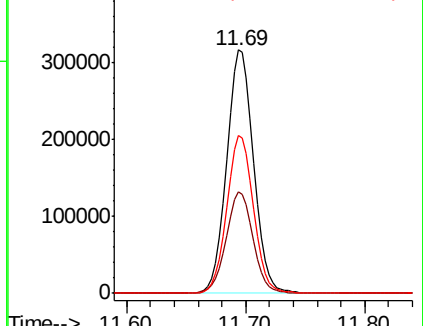
148 64.7 51.1 76.7



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: 55.27 ug/L

RT: 12.48 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

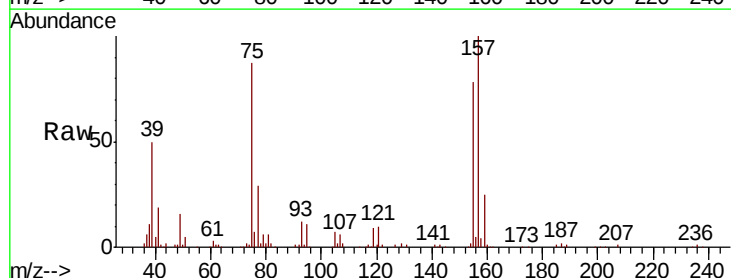
Tgt Ion: 75 Resp: 85258

Ion Ratio Lower Upper

75 100

155 89.3 67.1 100.7

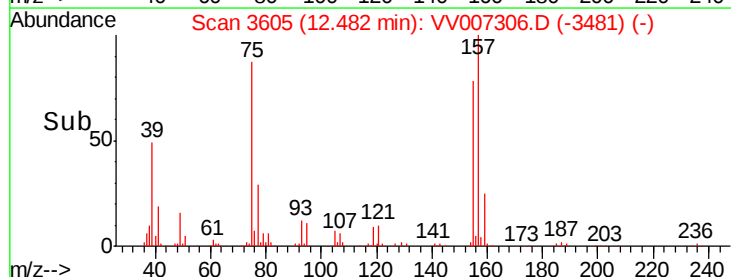
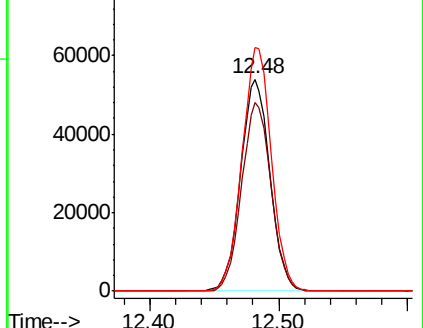
157 115.0 85.4 128.2

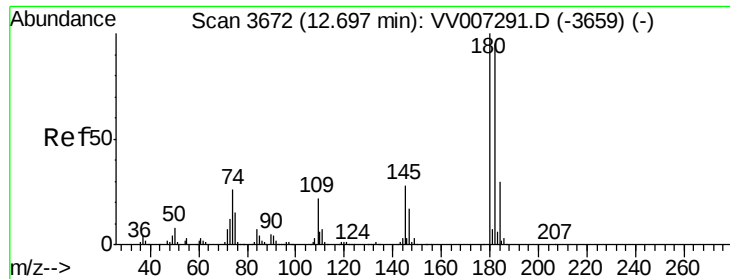


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

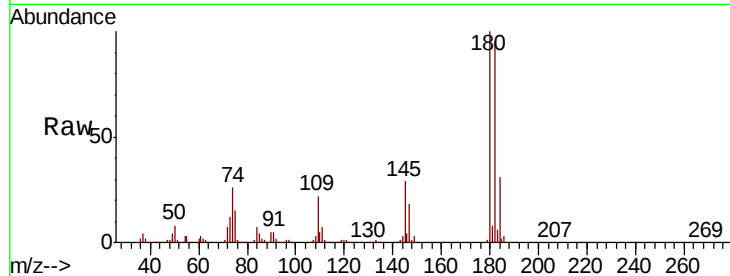




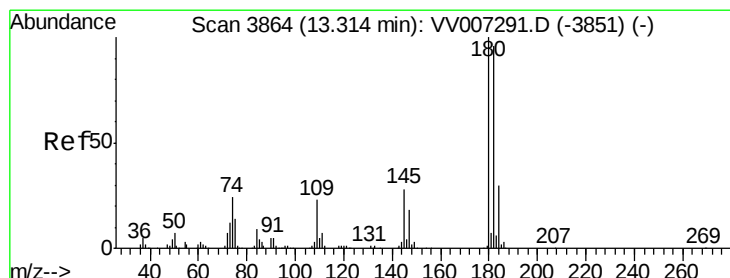
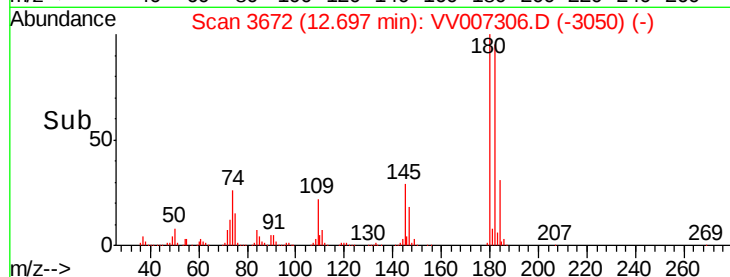
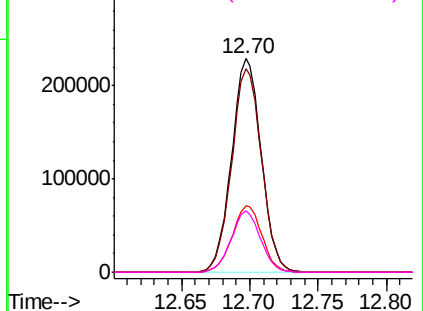
#67
 1,3,5-Trichlorobenzene
 Concen: 51.22 ug/L
 RT: 12.70 min Scan# 3672
 Delta R.T. 0.00 min
 Lab File: VV007306.D
 Acq: 31 Aug 2018 17:28

Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MSD

Tot Ion:180	Resp:	344975
Ion	Ratio	Lower Upper
180	100	
182	96.0	76.9 115.3
184	31.2	24.1 36.1
145	28.3	22.3 33.5

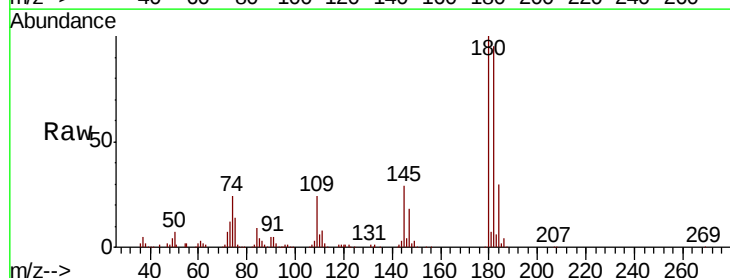


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

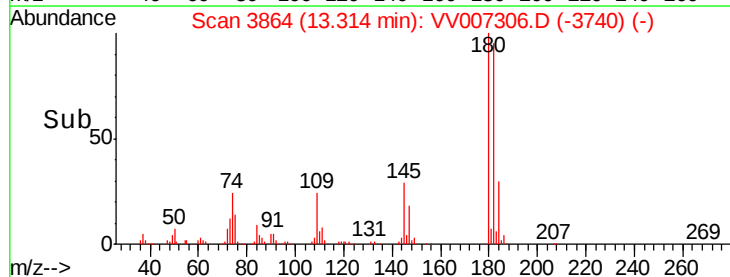
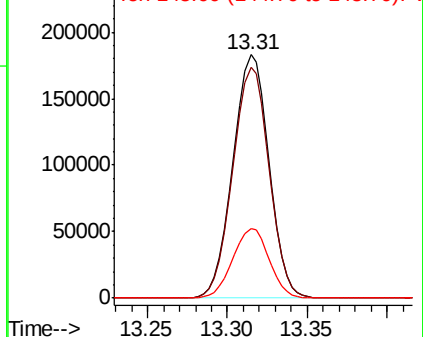


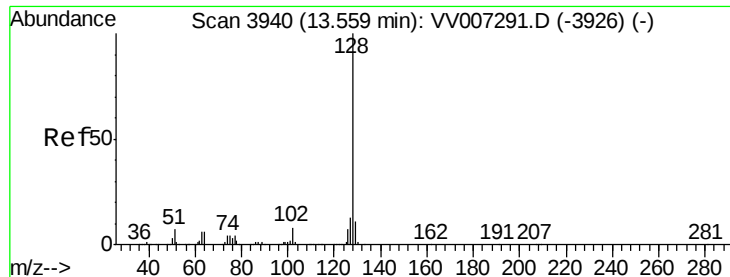
#68
 1,2,4-trichlorobenzene
 Concen: 52.20 ug/L
 RT: 13.31 min Scan# 3864
 Delta R.T. 0.00 min
 Lab File: VV007306.D
 Acq: 31 Aug 2018 17:28

Tgt Ion:180	Resp:	280793
Ion	Ratio	Lower Upper
180	100	
182	95.6	77.2 115.8
145	28.8	22.8 34.2



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: 61.20 ug/L

RT: 13.56 min Scan# 3939

Delta R.T. -0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MSD

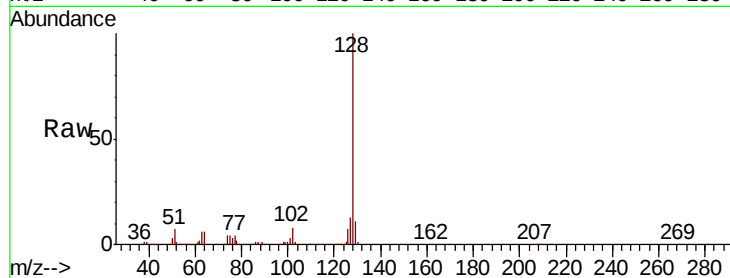
Tot Ion:128 Resp: 918011

Ion Ratio Lower Upper

128 100

127 12.7 10.6 15.8

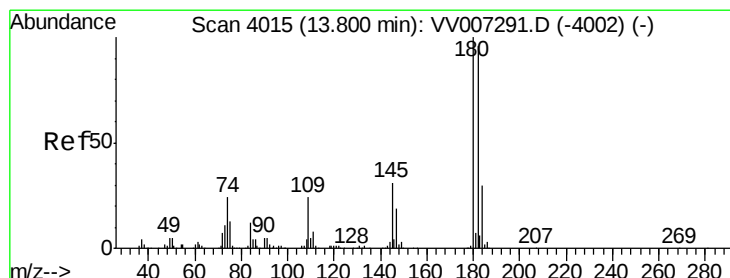
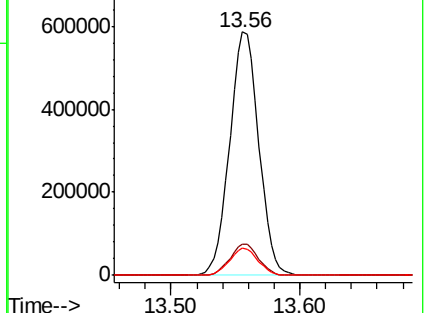
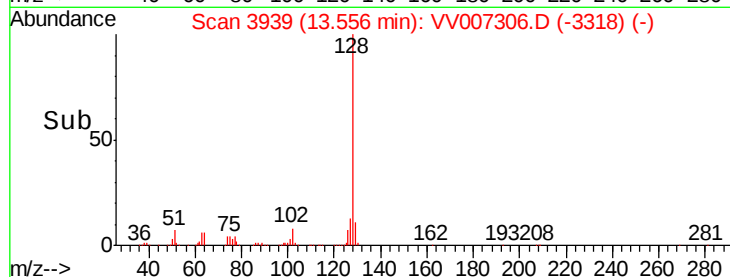
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 55.10 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. 0.00 min

Lab File: VV007306.D

Acq: 31 Aug 2018 17:28

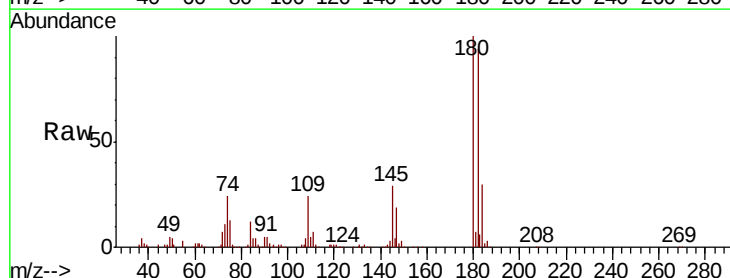
Tgt Ion:180 Resp: 321651

Ion Ratio Lower Upper

180 100

182 94.7 76.1 114.1

145 30.1 24.4 36.6



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

