

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV120618\
 Data File : VV008869.D
 Acq On : 06 Dec 2018 21:46
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.00g/10.0 mL/MSVOA_V/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

sam
 12/11/2018 4:25:59 PM

Quant Time: Dec 07 02:01:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 07 01:37:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	188384	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	162155	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	69468	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	48106	24.68	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.72%
7) Chloroethane-d5	1.58	69	40062	27.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	111.28%
10) 1,1-Dichloroethene-d2	2.13	63	92152	18.91	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.64%
20) 2-Butanone-d5	3.94	46	40742	57.40	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.80%
24) Chloroform-d	4.40	84	102816	22.70	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.80%
26) 1,2-Dichloroethane-d4	5.08	65	60274	24.39	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.56%
29) Benzene-d6	5.10	84	218566	24.13	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.52%
33) 1,2-Dichloropropane-d6	6.12	67	61574	24.29	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.16%
37) Toluene-d8	7.36	98	194427	23.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.80%
38) trans-1,3-Dichloropropene-	7.67	79	25476	22.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.48%
39) 2-Hexanone-d5	8.14	63	24406	52.54	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.08%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	52079	24.49	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	97.96%
61) 1,2-Dichlorobenzene-d4	11.68	152	62104	23.82	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.28%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.14	85	3615	1.171	ug/L	95
3) Chloromethane	1.25	50	2404	1.133	ug/L	100
5) Vinyl chloride	1.32	62	2693	1.137	ug/L #	59
6) Bromomethane	1.53	94	1483	1.302	ug/L	96
8) Chloroethane	1.60	64	2214	1.669	ug/L	98
9) Trichlorofluoromethane	1.77	101	5190	1.279	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4176	1.501	ug/L #	81
12) 1,1-Dichloroethene	2.14	96	3186	1.312	ug/L #	1
13) Acetone	2.19	43	3396	3.248	ug/L	71
14) Carbon disulfide	2.32	76	7821	1.003	ug/L	97
15) Methyl Acetate	2.46	43	1557	1.174	ug/L #	74
16) Methylene chloride	2.54	84	9122	2.876	ug/L	97
17) Methyl tert-butyl Ether	2.80	73	5816	1.054	ug/L #	94
18) trans-1,2-Dichloroethene	2.79	96	2855	1.088	ug/L	93
19) 1,1-Dichloroethane	3.23	63	4311	1.013	ug/L	98
21) 2-Butanone	4.04	43	1788m	1.824	ug/L	
22) cis-1,2-Dichloroethene	3.96	96	2916	1.066	ug/L	94

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Manual Integrations
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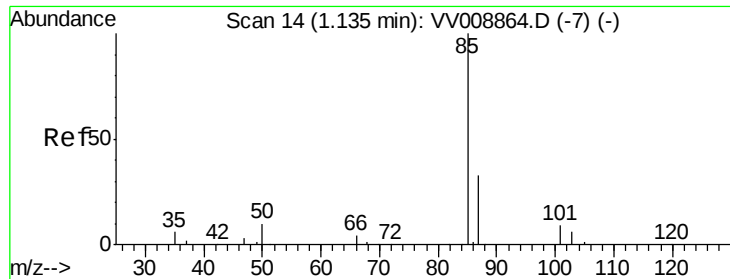
sam
 12/11/2018 4:25:59 PM

Quant Time: Dec 07 02:01:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	1132m	0.878	ug/L	
25) Chloroform	4.42	83	6588m	1.443	ug/L	
27) 1,2-Dichloroethane	5.18	62	3277	1.054	ug/L	98
30) Cyclohexane	4.72	56	4393m	1.076	ug/L	
31) 1,1,1-Trichloroethane	4.66	97	4172	0.998	ug/L	99
32) Carbon tetrachloride	4.87	117	3747	0.982	ug/L	99
34) Benzene	5.15	78	9705	0.999	ug/L	100
35) Trichloroethene	5.96	95	3188m	1.088	ug/L	
36) Methylcyclohexane	6.18	83	4633	0.992	ug/L	88
40) 1,2-Dichloropropane	6.22	63	2412	1.034	ug/L #	85
41) Bromodichloromethane	6.56	83	3069	0.999	ug/L	89
42) cis-1,3-Dichloropropene	7.07	75	3538	1.036	ug/L	93
43) 4-Methyl-2-pentanone	7.28	43	4333	2.749	ug/L #	92
44) Toluene	7.43	91	11318	1.111	ug/L	94
45) trans-1,3-Dichloropropene	7.69	75	3051	1.025	ug/L	91
46) 1,1,2-Trichloroethane	7.89	97	1967	1.012	ug/L	94
47) Tetrachloroethene	8.02	164	2412	1.013	ug/L	94
49) 2-Hexanone	8.19	43	4570	3.505	ug/L #	95
50) Dibromochloromethane	8.29	129	2109	0.947	ug/L	97
51) 1,2-Dibromoethane	8.40	107	2041m	1.046	ug/L	
52) Chlorobenzene	8.93	112	7481	1.128	ug/L	96
53) Ethylbenzene	9.06	91	11092	1.004	ug/L	98
54) m,p-Xylene	9.18	106	3766	0.900	ug/L	93
55) o-xylene	9.59	106	3844	0.989	ug/L	88
56) Styrene	9.61	104	5546	0.884	ug/L	86
57) Isopropylbenzene	9.98	105	10373	0.982	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	2490	1.186	ug/L #	93
59) 1,2,3-Trichloropropane	10.32	75	2075	1.142	ug/L	96
62) Bromoform	9.78	173	1126	0.898	ug/L #	93
63) 1,3-Dichlorobenzene	11.23	146	4922	1.100	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	5193	1.127	ug/L	94
65) 1,2-Dichlorobenzene	11.69	146	4578	1.109	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.48	75	341m	1.009	ug/L	
67) 1,3,5-Trichlorobenzene	12.70	180	3111	0.962	ug/L	97
68) 1,2,4-trichlorobenzene	13.32	180	1734	0.765	ug/L	92
69) Naphthalene	13.56	128	2486	0.637	ug/L #	91
70) 1,2,3-Trichlorobenzene	13.80	180	1863	0.890	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 1.171 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 85 Resp: 3615

Ion Ratio Lower Upper

85 100

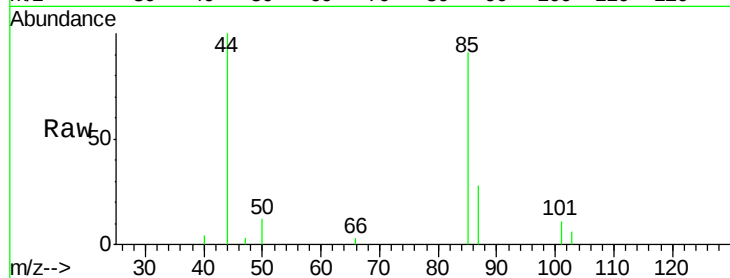
87 29.2 22.4 41.6

Manual Integrations

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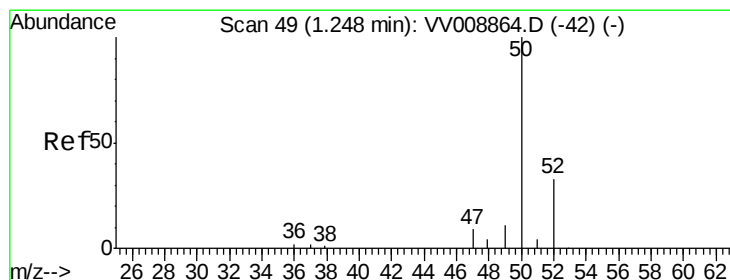
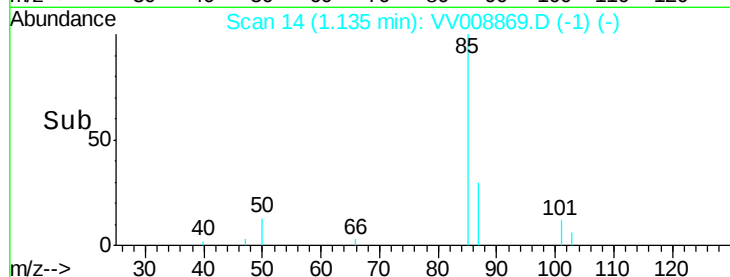
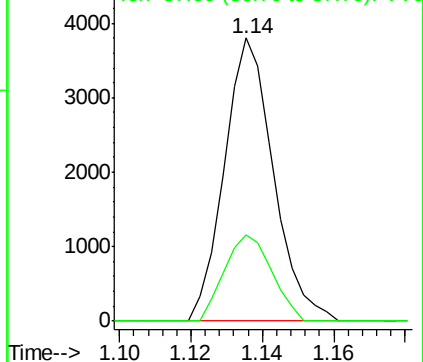
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 1.133 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV008869.D

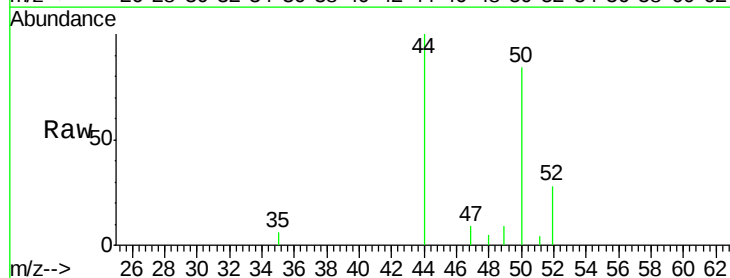
Acq: 06 Dec 2018 21:46

Tgt Ion: 50 Resp: 2404

Ion Ratio Lower Upper

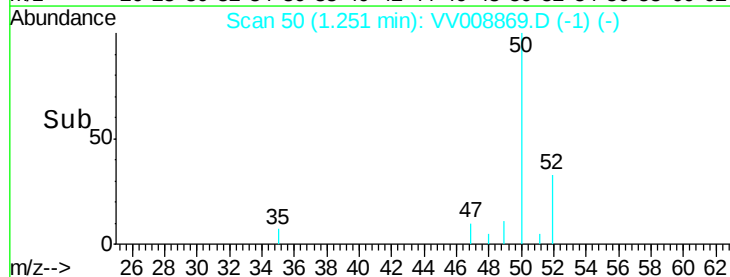
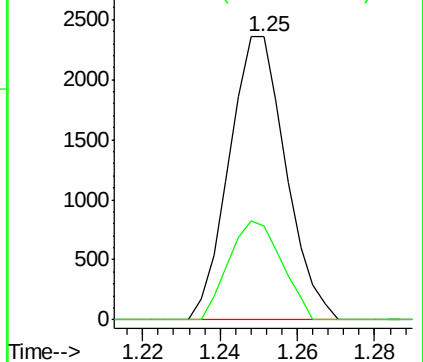
50 100

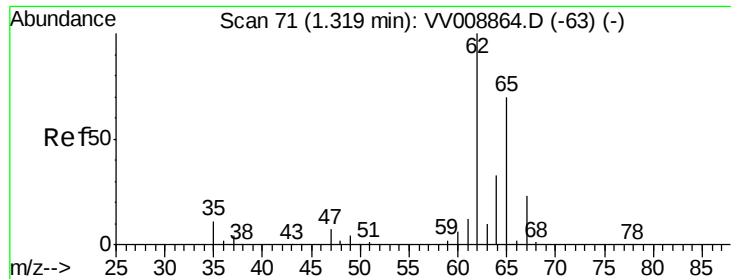
52 33.2 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 1.137 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 62 Resp: 2693

Ion Ratio Lower Upper

62 100

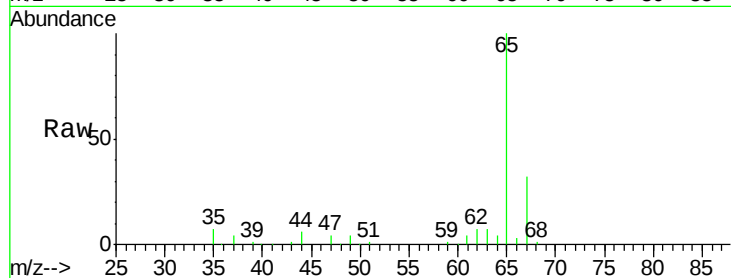
64 56.3 23.3 43.3#

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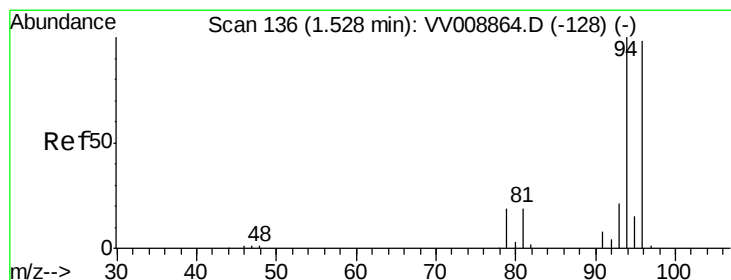
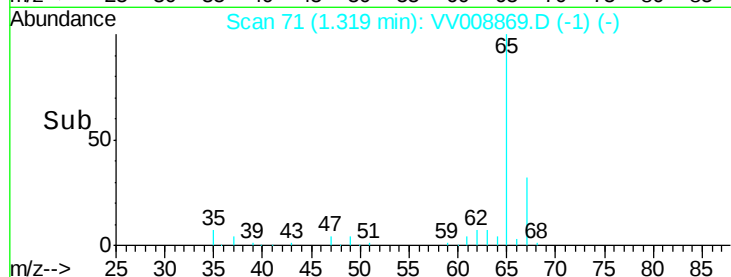
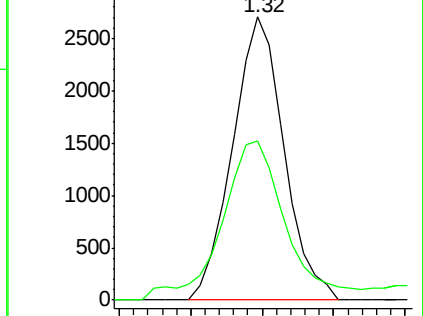
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 1.302 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV008869.D

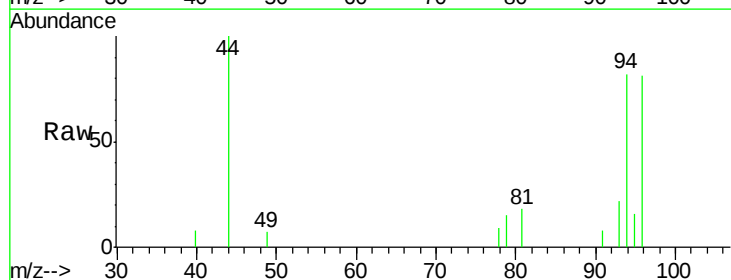
Acq: 06 Dec 2018 21:46

Tgt Ion: 94 Resp: 1483

Ion Ratio Lower Upper

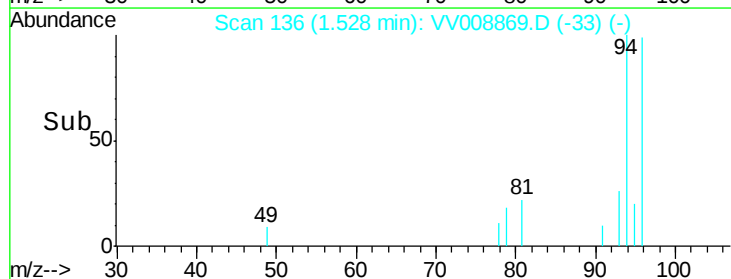
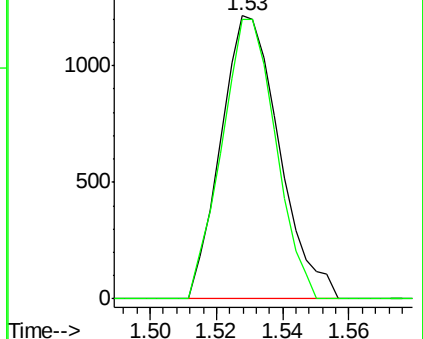
94 100

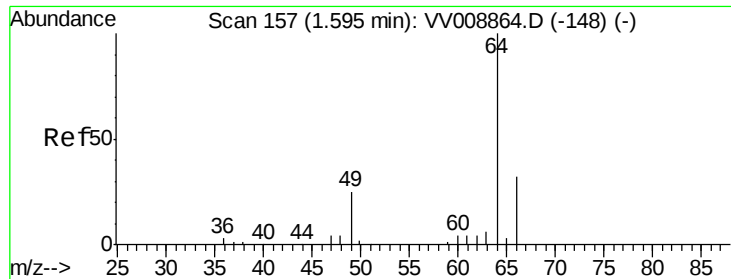
96 91.2 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 1.669 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 64 Resp: 2214

Ion Ratio Lower Upper

64 100

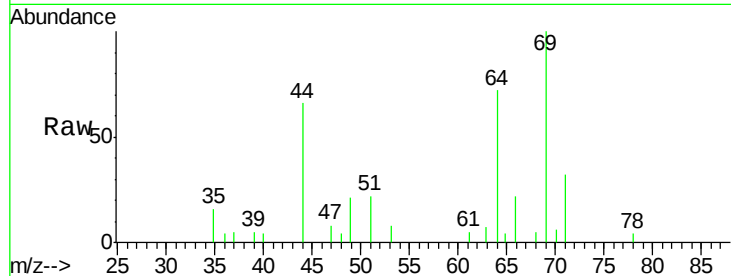
66 30.7 22.2 41.2

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Abundance Ion 64.00 (63.70 to 64.70): VV008864.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV008864.D (-148) (-)

1.60

2000

1500

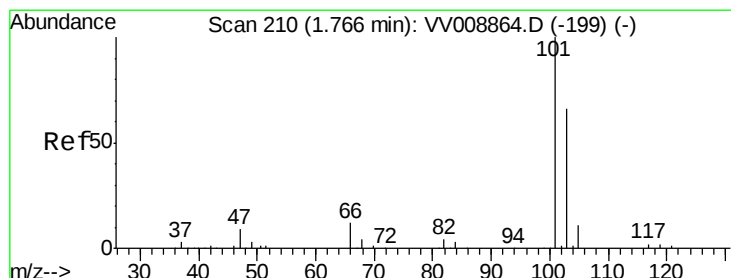
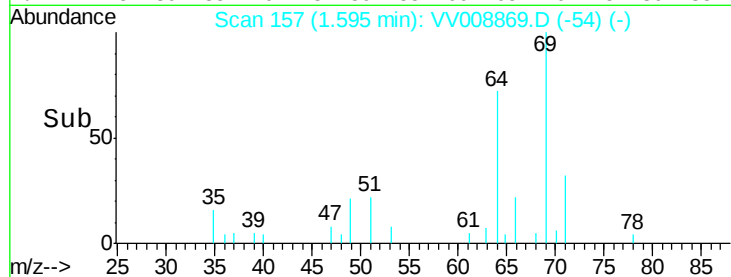
1000

500

0

1.56 1.58 1.60 1.62

Time-->



#9

Trichlorofluoromethane

Concen: 1.279 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV008869.D

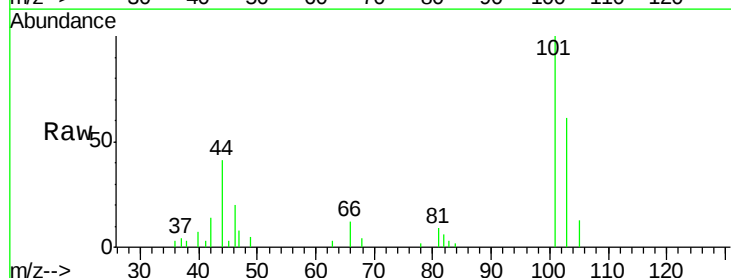
Acq: 06 Dec 2018 21:46

Tgt Ion: 101 Resp: 5190

Ion Ratio Lower Upper

101 100

103 65.3 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): VV008864.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV008864.D (-199) (-)

1.77

5000

4000

3000

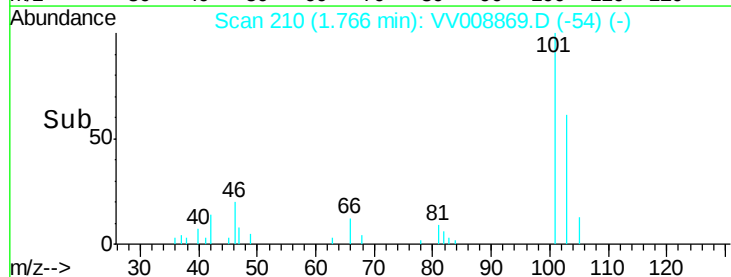
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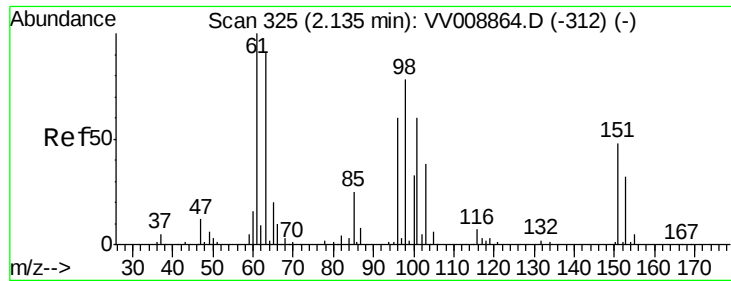
1000

0

1.72 1.74 1.76 1.78 1.80

Time-->





#11

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

Concen: 1.501 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

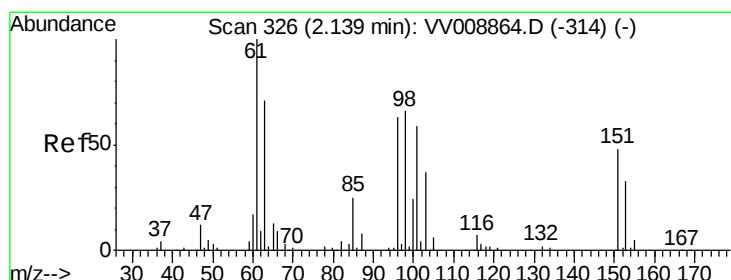
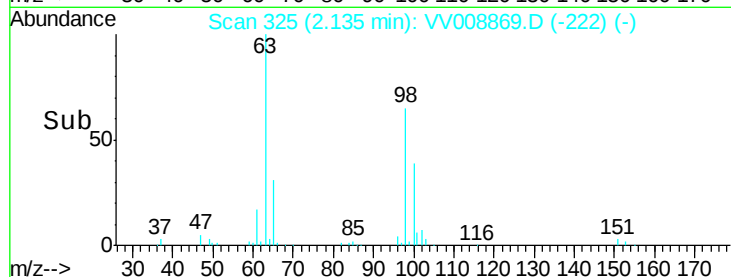
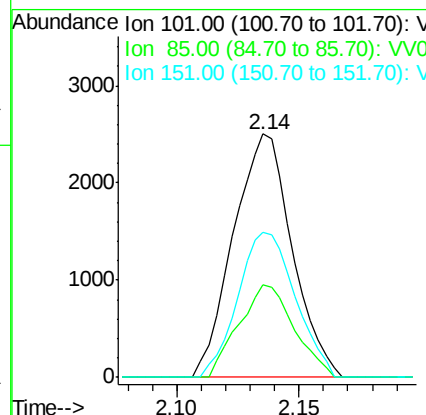
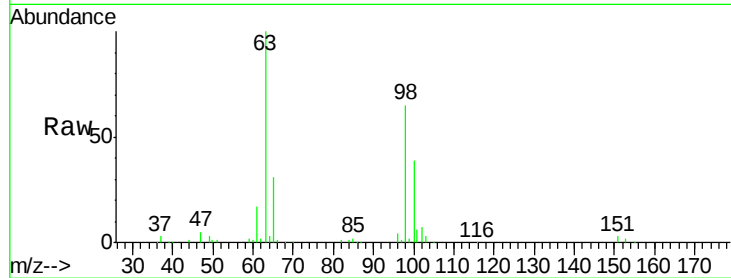
ClientSampleId :

MDL04

Tgt Ion:	101	Resp:	4176
Ion Ratio	Lower	Upper	
101	100		
85	35.9	32.5	48.7
151	58.5	64.2	96.4#

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#12

1,1-Dichloroethene

Concen: 1.312 ug/L

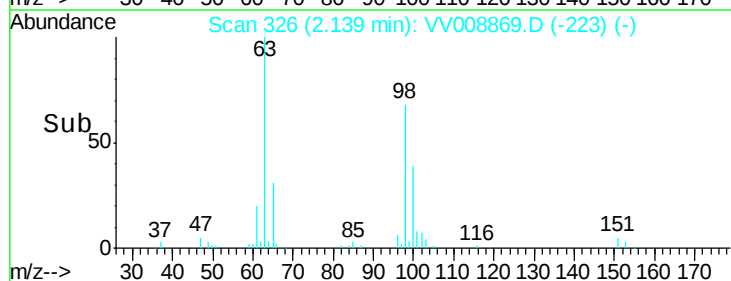
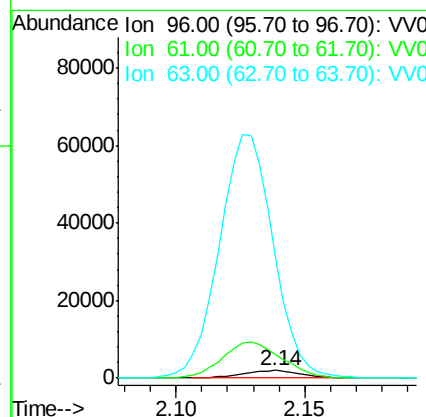
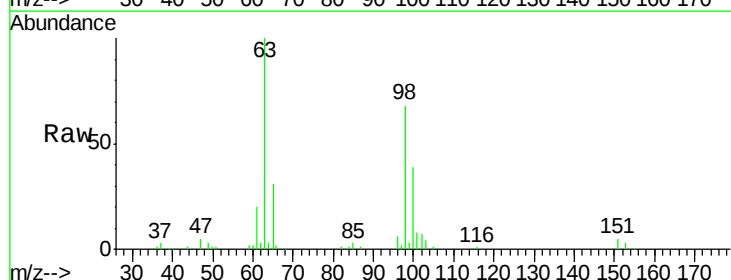
RT: 2.14 min Scan# 326

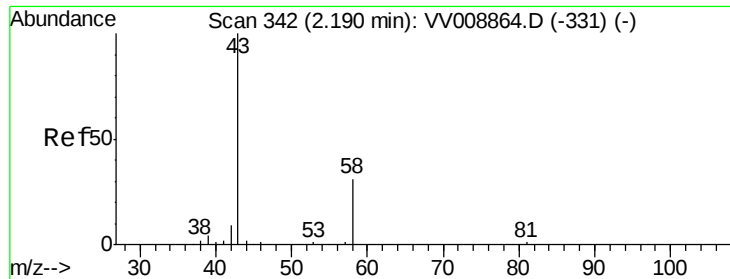
Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Tgt Ion:	96	Resp:	3186
Ion Ratio	Lower	Upper	
96	100		
61	313.2	114.0	211.6#
63	1595.9	82.4	153.0#





#13

Acetone

Concen: 3.248 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tgt Ion: 43 Resp: 3396

Ion Ratio Lower Upper

43 100

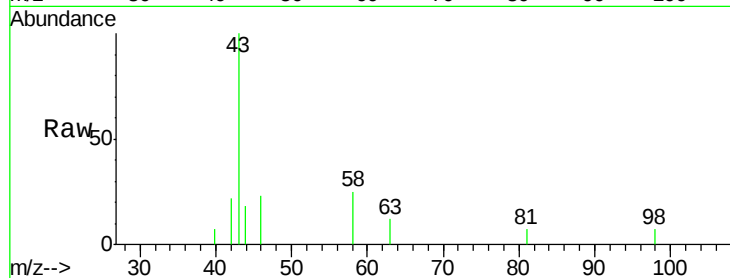
58 16.5 0.0 65.4

Manual Integrations

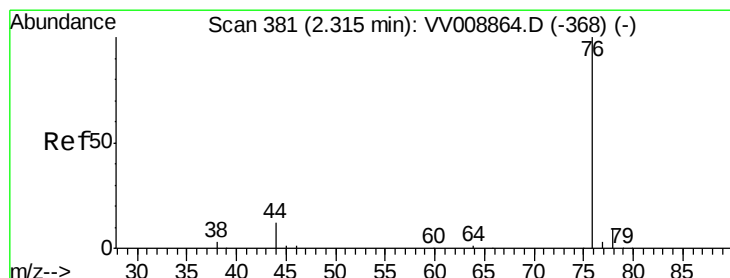
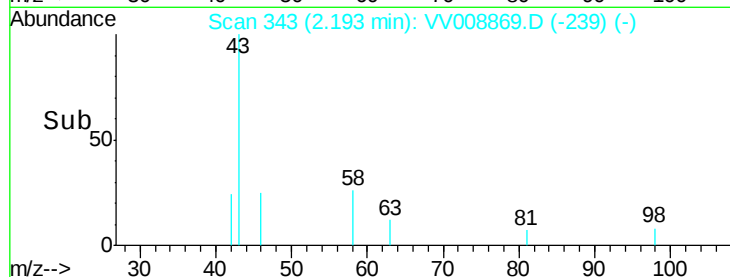
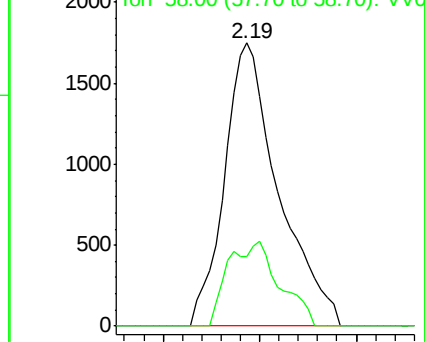
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Abundance Ion 43.00 (42.70 to 43.70): VV008869.D (-239) (-)



#14

Carbon disulfide

Concen: 1.003 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV008869.D

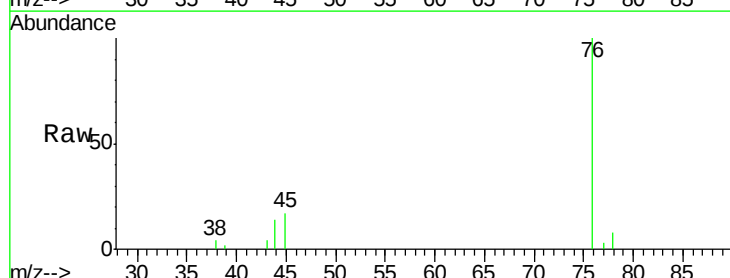
Acq: 06 Dec 2018 21:46

Tgt Ion: 76 Resp: 7821

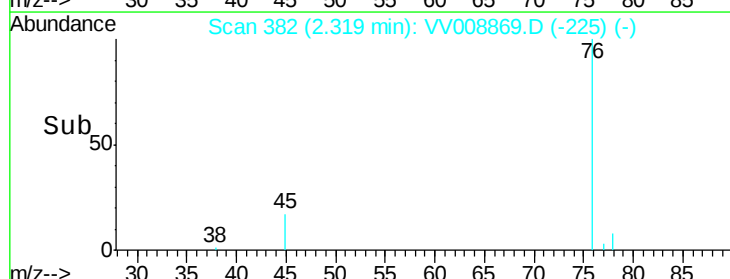
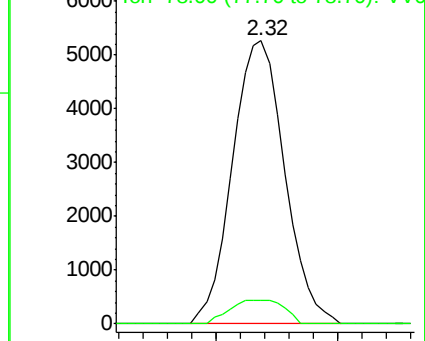
Ion Ratio Lower Upper

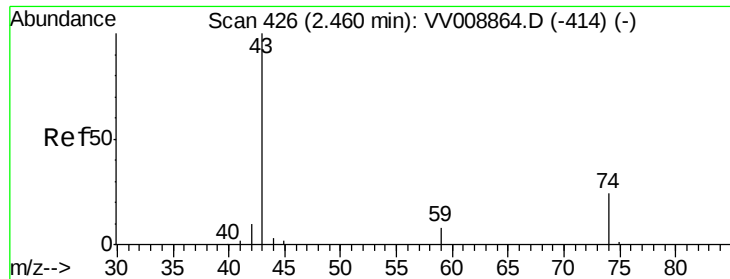
76 100

78 8.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV008869.D (-225) (-)





#15

Methyl Acetate

Concen: 1.174 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tgt Ion: 43 Resp: 1557

Ion Ratio Lower Upper

43 100

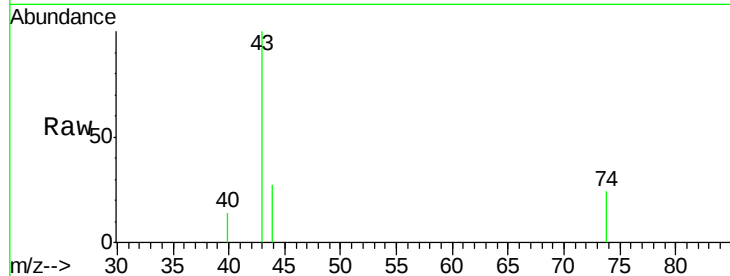
74 11.8 19.7 29.5#

Manual Integrations

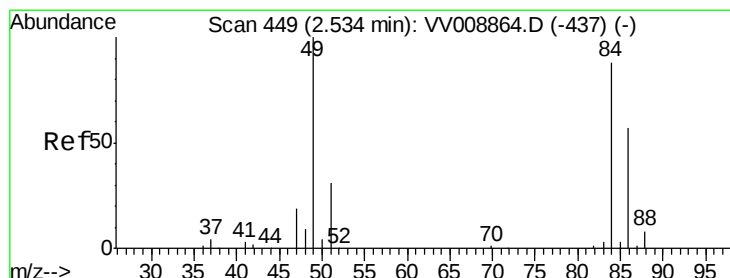
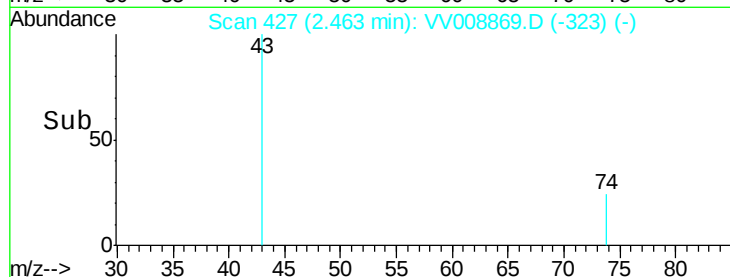
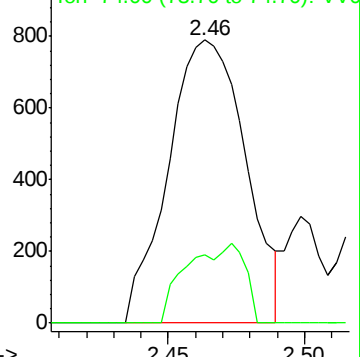
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Abundance Ion 43.00 (42.70 to 43.70): VV008869.D (-323) (-)



#16

Methylene chloride

Concen: 2.876 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

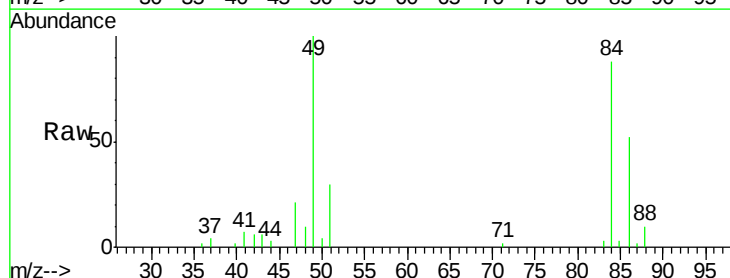
Tgt Ion: 84 Resp: 9122

Ion Ratio Lower Upper

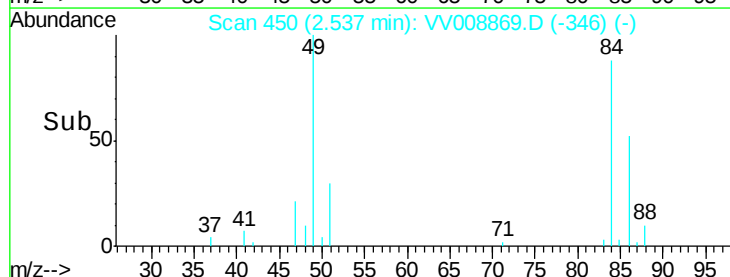
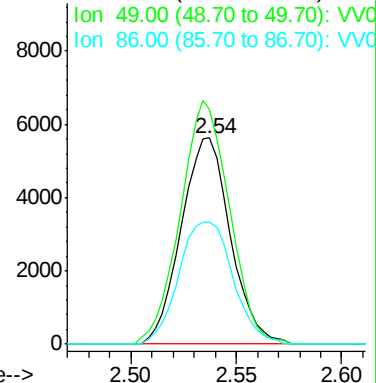
84 100

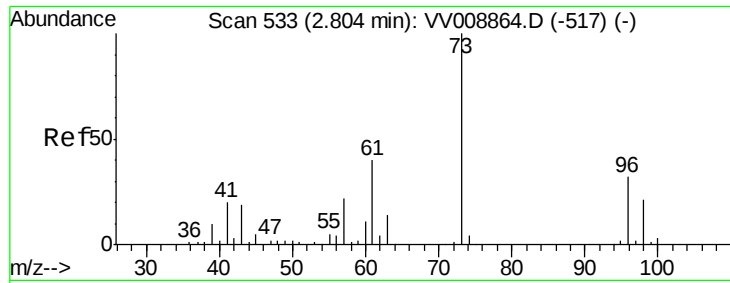
49 114.0 80.5 149.5

86 59.1 45.5 84.5



Abundance Ion 84.00 (83.70 to 84.70): VV008869.D (-346) (-)





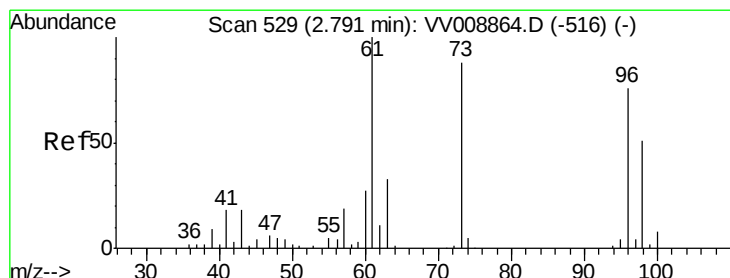
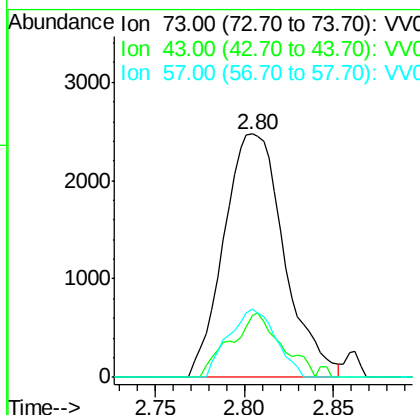
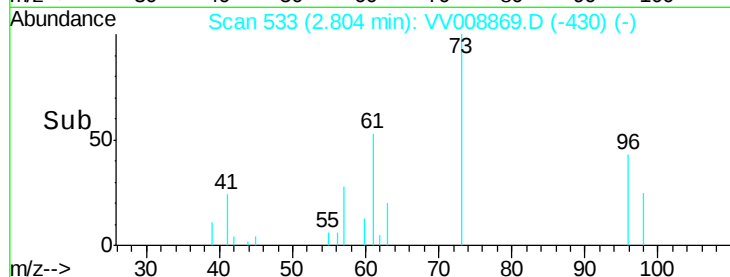
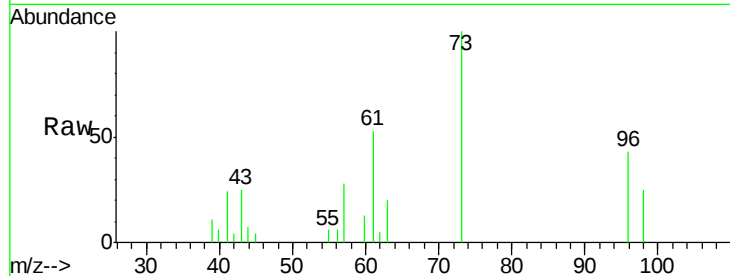
#17
Methyl tert-butyl Ether
Concen: 1.054 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tgt Ion: 73 Resp: 5816
Ion Ratio Lower Upper
73 100
43 14.7 14.9 22.3#
57 22.1 16.0 24.0

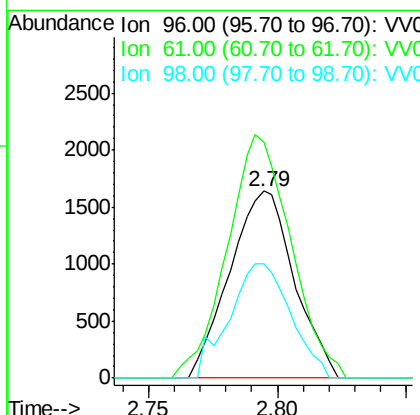
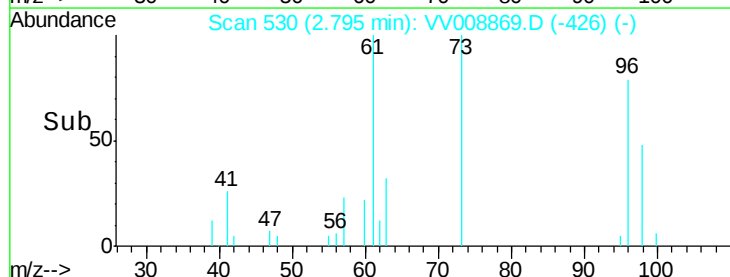
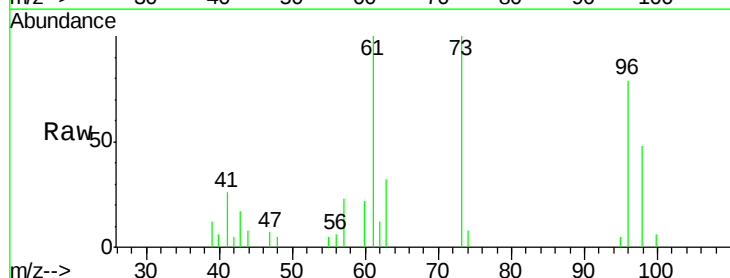
Manual Integrations
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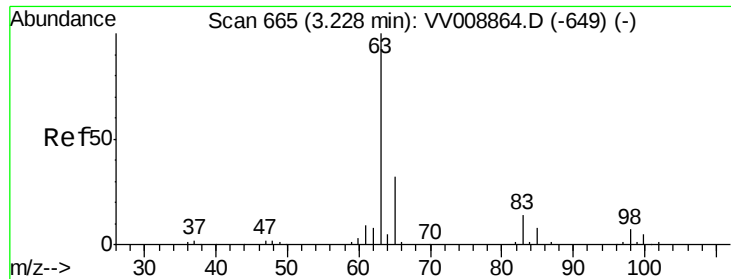
sam
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#18
trans-1,2-Dichloroethene
Concen: 1.088 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Tgt Ion: 96 Resp: 2855
Ion Ratio Lower Upper
96 100
61 125.8 94.6 175.8
98 60.8 45.3 84.1





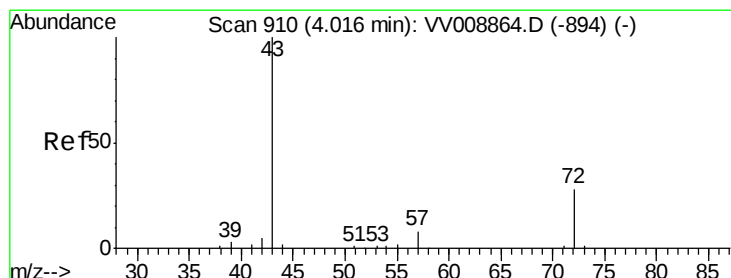
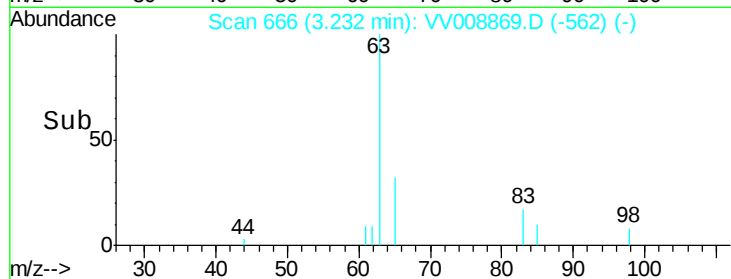
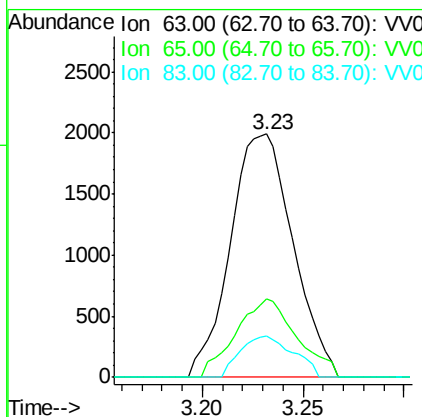
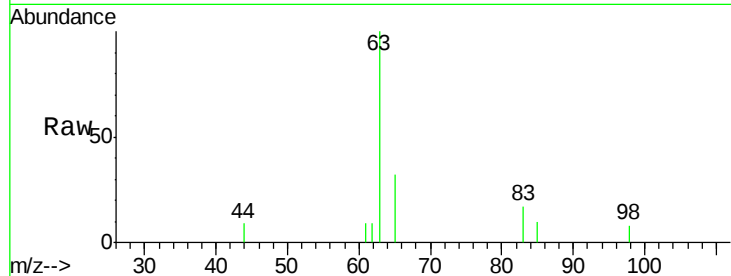
#19
 1,1-Dichloroethane
 Concen: 1.013 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tgt Ion: 63 Resp: 4311
 Ion Ratio Lower Upper
 63 100
 65 32.2 22.7 42.1
 83 16.8 10.2 19.0

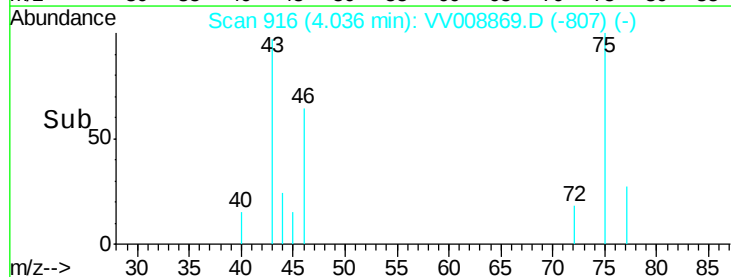
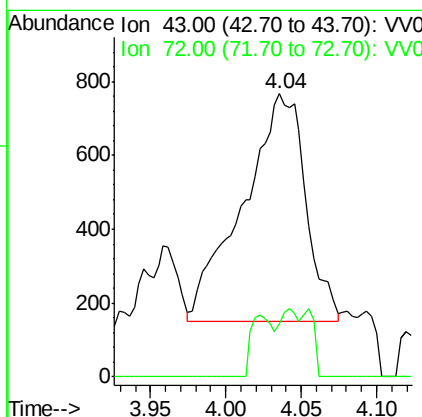
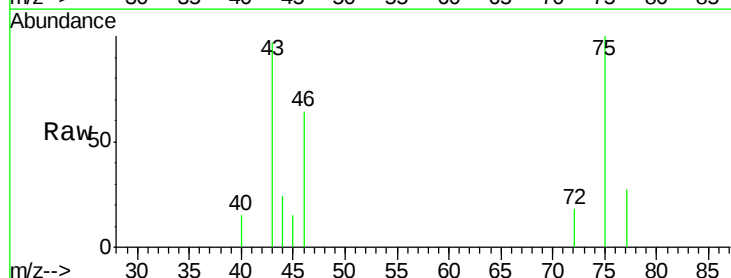
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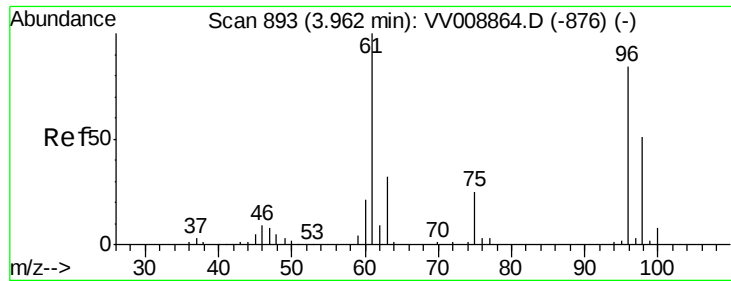
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#21
 2-Butanone
 Concen: 1.824 ug/L m
 RT: 4.04 min Scan# 916
 Delta R.T. 0.02 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Tgt Ion: 43 Resp: 1788
 Ion Ratio Lower Upper
 43 100
 72 8.9 13.7 41.1#





#22

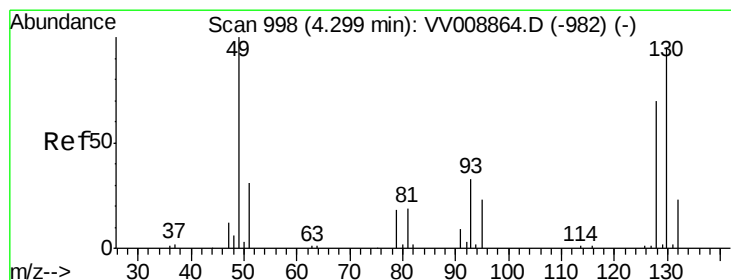
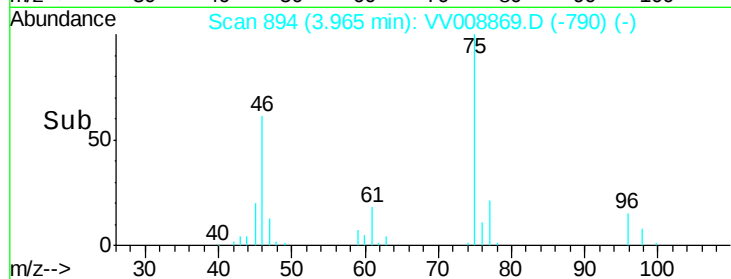
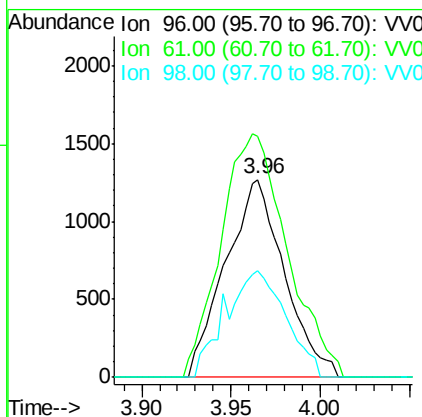
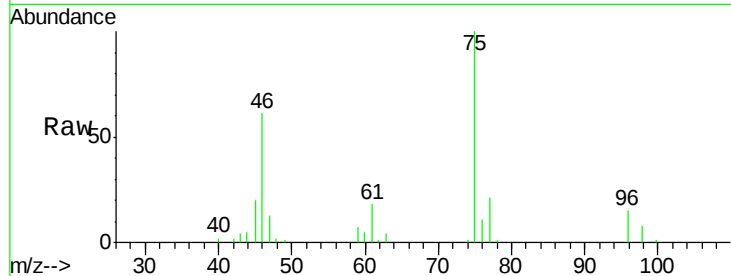
cis-1,2-Dichloroethene
Concen: 1.066 ug/L
RT: 3.96 min Scan# 894
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	121.7	86.2	160.0
98	53.7	45.6	84.6

Manual Integrations
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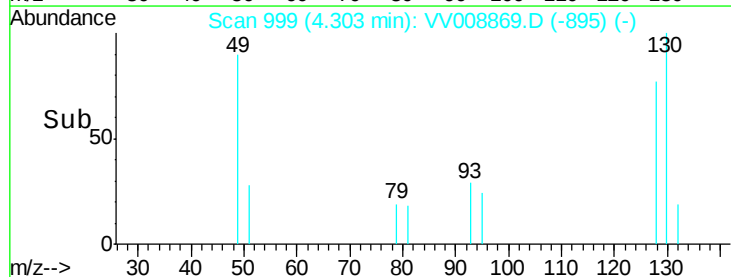
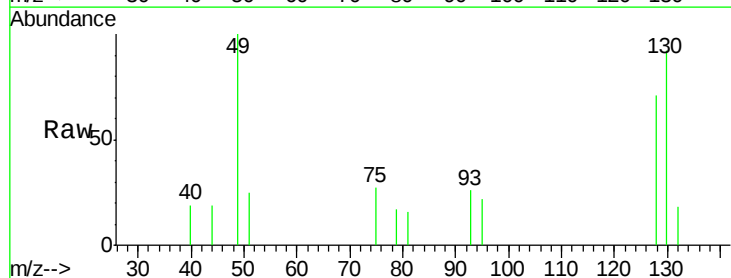
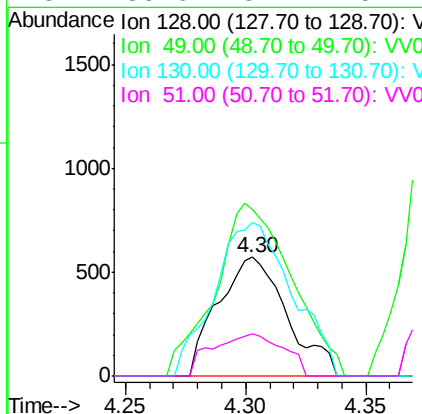
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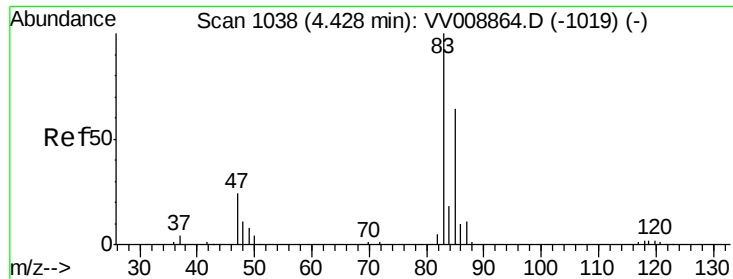


#23

Bromochloromethane
Concen: 0.878 ug/L m
RT: 4.30 min Scan# 999
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Tgt Ion	Ratio	Lower	Upper
128	100		
49	140.1	93.8	174.2
130	129.3	90.4	168.0
51	35.6	34.2	51.4





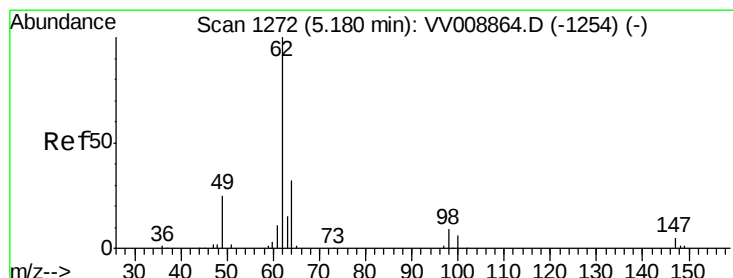
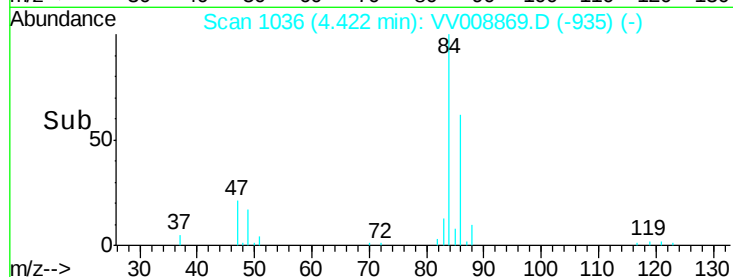
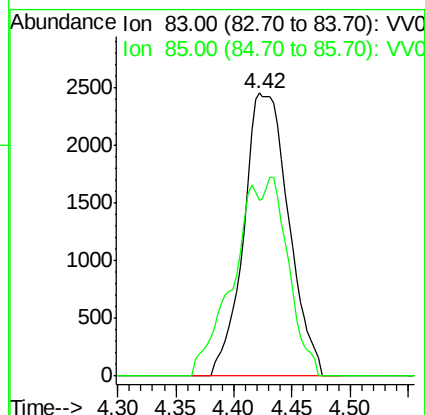
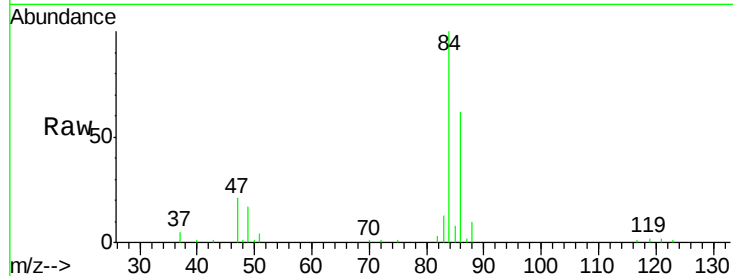
#25
Chloroform
Concen: 1.443 ug/L m
RT: 4.42 min Scan# 1036
Delta R.T. -0.01 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion: 83 Resp: 6588
Ion Ratio Lower Upper
83 100
85 42.6 45.6 84.8#

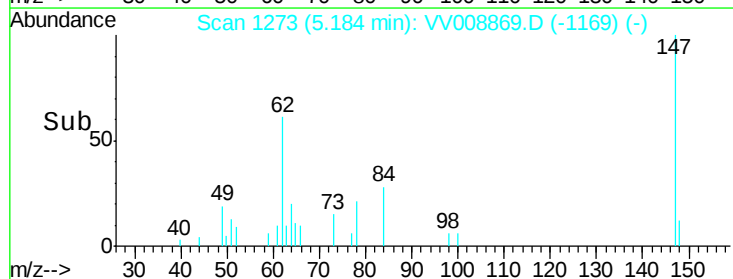
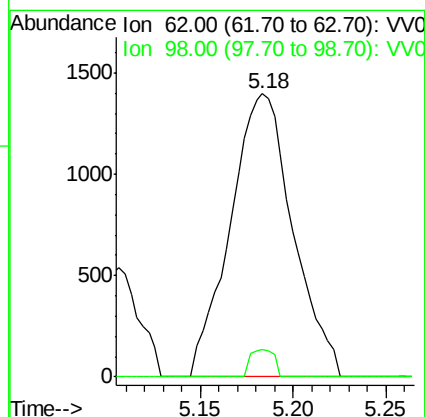
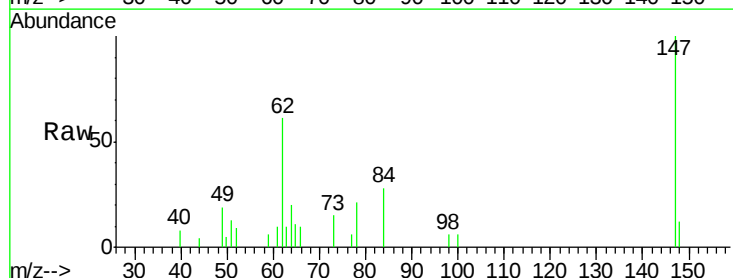
Manual Integrations
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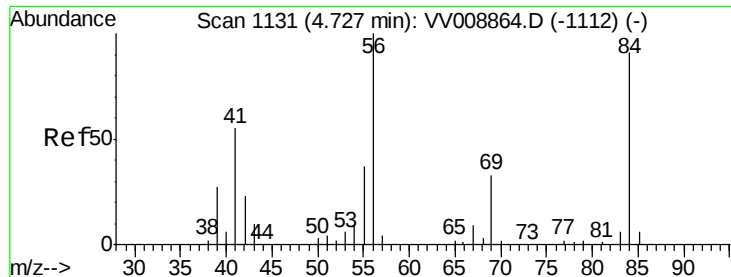
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#27
1,2-Dichloroethane
Concen: 1.054 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Tgt Ion: 62 Resp: 3277
Ion Ratio Lower Upper
62 100
98 9.8 7.4 11.0





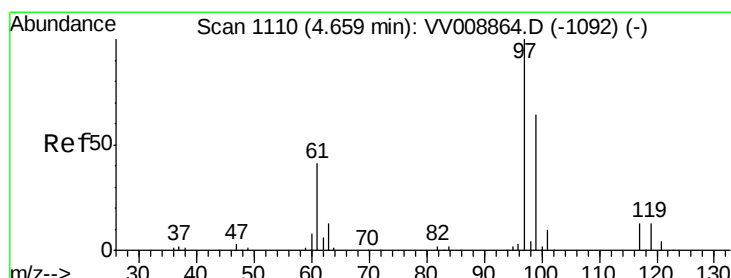
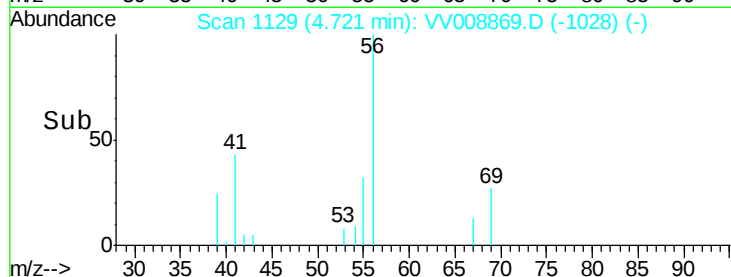
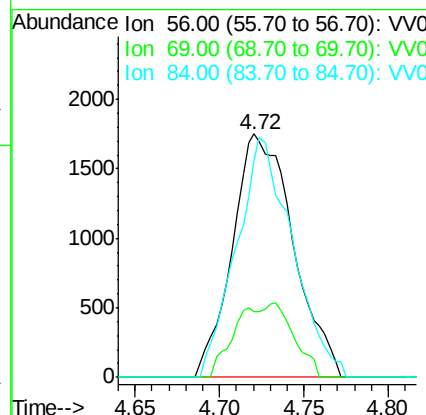
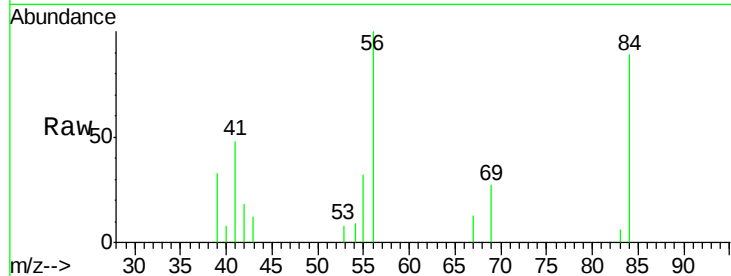
#30
Cyclohexane
Concen: 1.076 ug/L m
RT: 4.72 min Scan# 1129
Delta R.T. -0.01 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tgt Ion: 56 Resp: 4393
Ion Ratio Lower Upper
56 100
69 13.7 25.8 38.8#
84 90.6 73.0 109.6

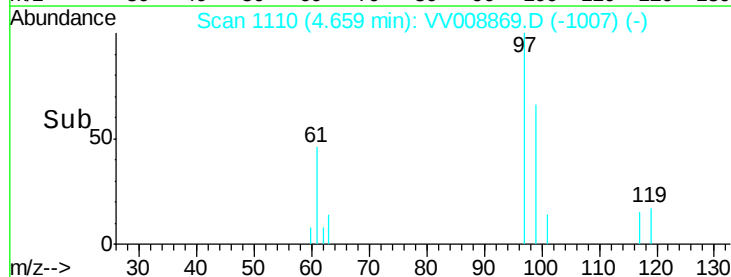
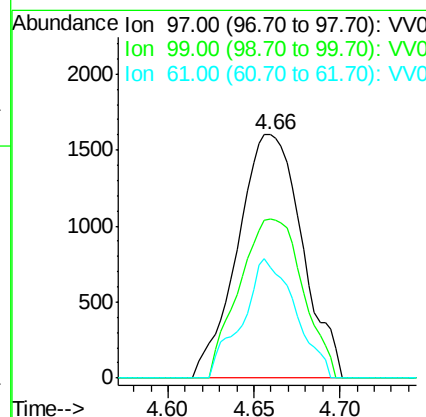
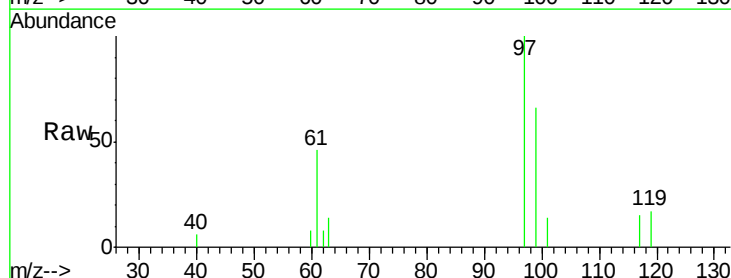
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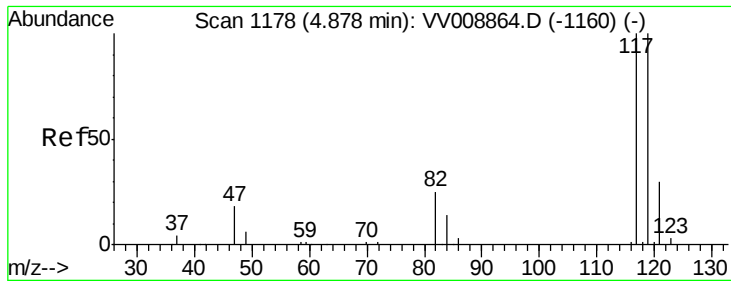
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#31
1,1,1-Trichloroethane
Concen: 0.998 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Tgt Ion: 97 Resp: 4172
Ion Ratio Lower Upper
97 100
99 64.3 51.9 77.9
61 40.4 33.1 49.7





#32

Carbon tetrachloride

Concen: 0.982 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion:117 Resp: 3747

Ion Ratio Lower Upper

117 100

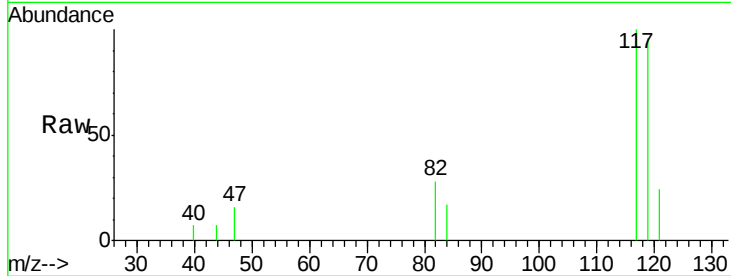
119 97.4 77.1 115.7

Manual Integrations

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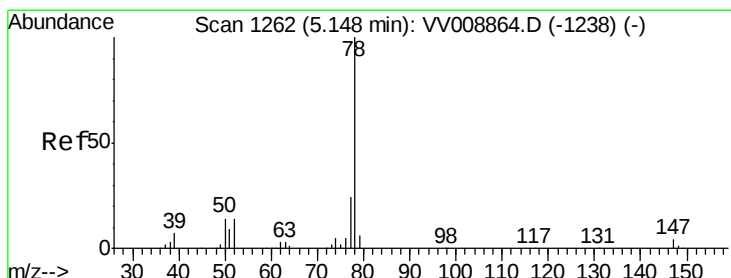
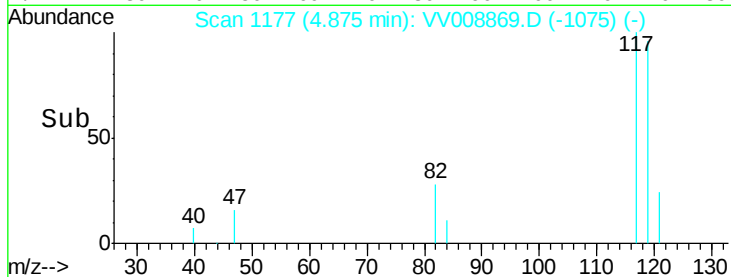
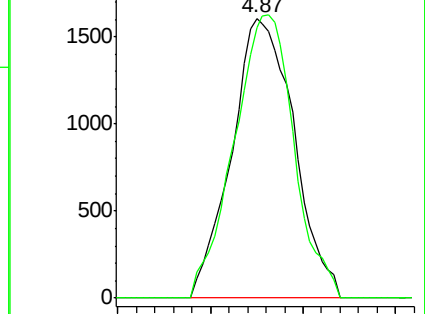
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 0.999 ug/L

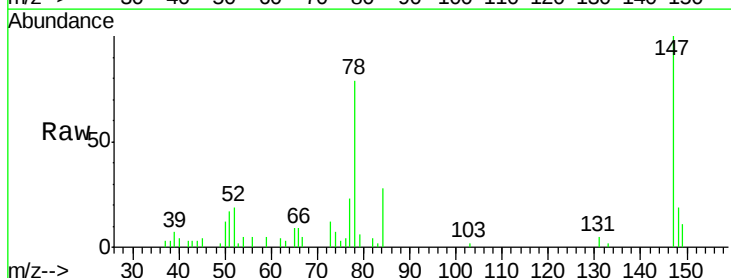
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

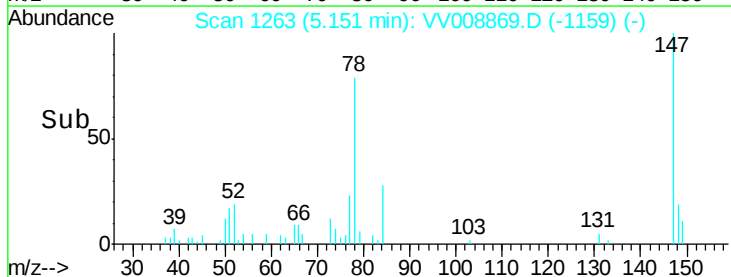
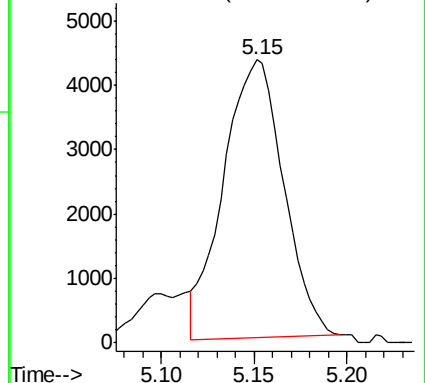
Lab File: VV008869.D

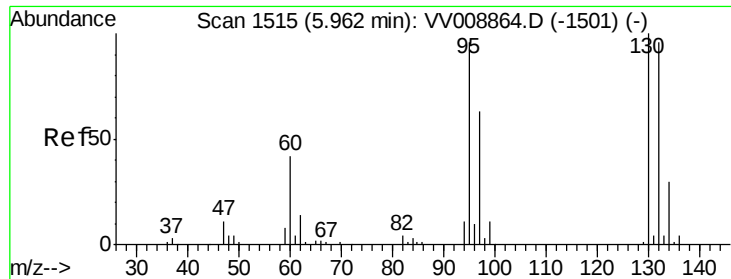
Acq: 06 Dec 2018 21:46

Tgt Ion: 78 Resp: 9705



Abundance Ion 78.00 (77.70 to 78.70): VV0





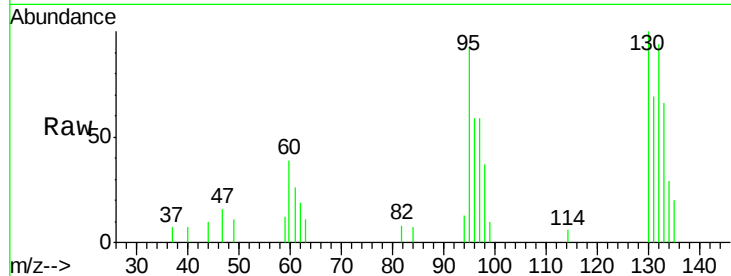
#35
 Trichloroethene
 Concen: 1.088 ug/L m
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

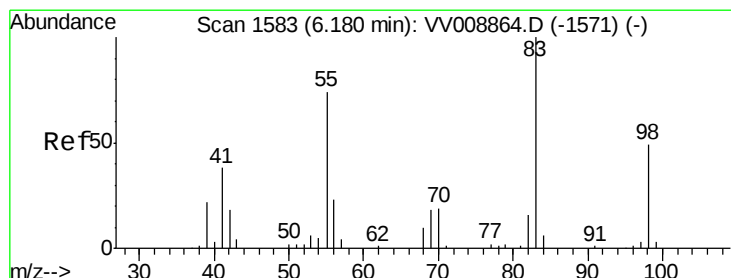
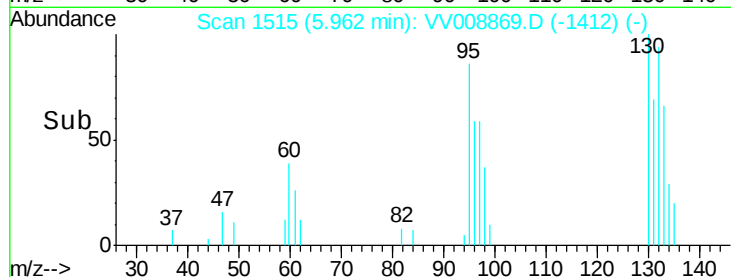
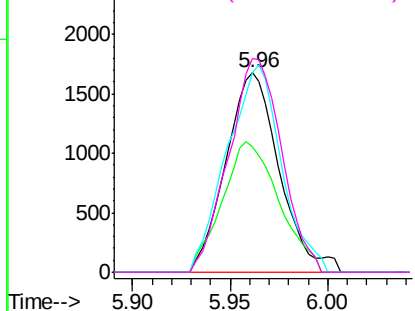
Tgt Ion: 95 Resp: 3188
 Ion Ratio Lower Upper
 95 100
 97 69.5 45.3 84.1
 132 105.7 70.0 130.0
 130 106.4 73.4 136.4

Manual Integrations
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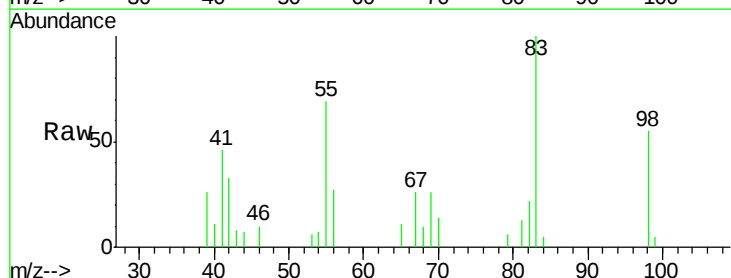


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

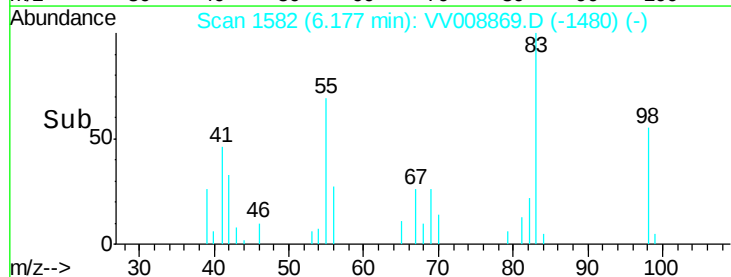
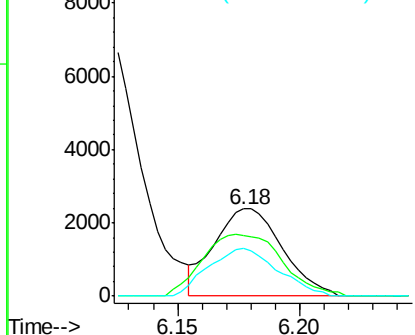


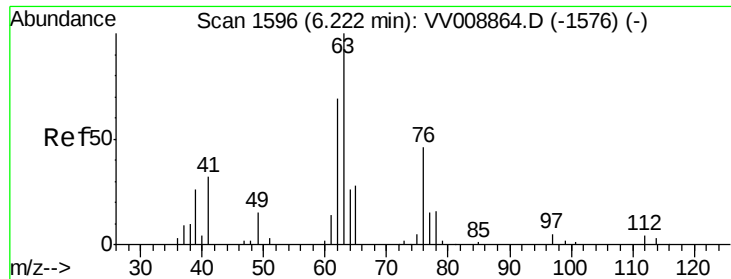
#36
 Methylcyclohexane
 Concen: 0.992 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Tgt Ion: 83 Resp: 4633
 Ion Ratio Lower Upper
 83 100
 55 82.5 58.2 87.2
 98 55.8 37.8 56.8



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





#40

1,2-Dichloropropane

Concen: 1.034 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 63 Resp: 2412

Ion Ratio Lower Upper

63 100

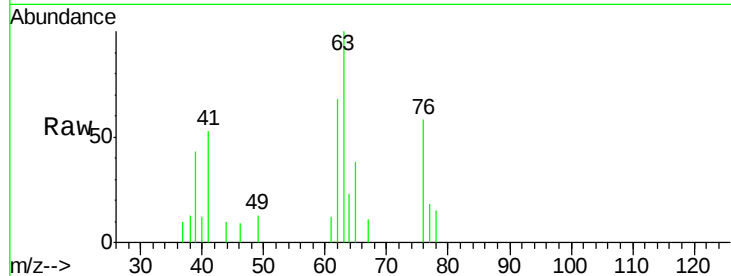
112 0.0 3.8 5.8#

Manual Integrations

APPROVED

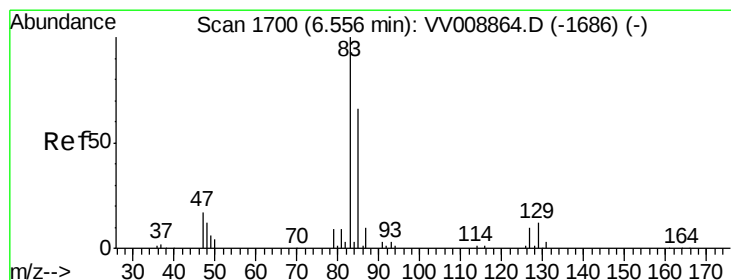
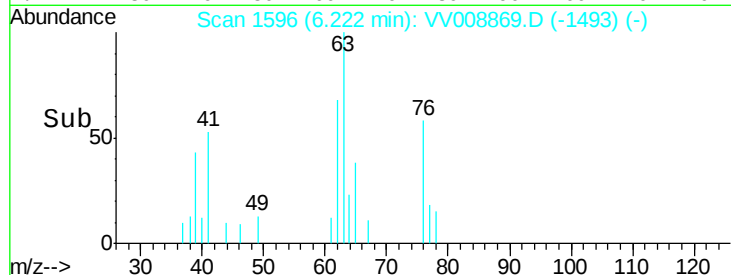
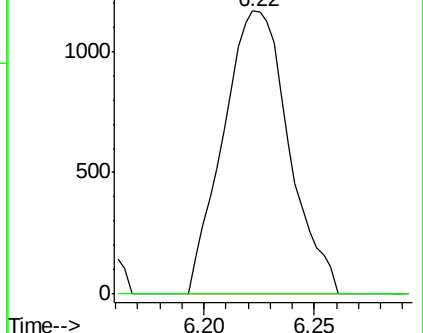
sam

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Abundance Ion 63.00 (62.70 to 63.70): VV008869.D (-1493) (-)

Ion 112.00 (111.70 to 112.70): VV008869.D (-1493) (-)



#41

Bromodichloromethane

Concen: 0.999 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

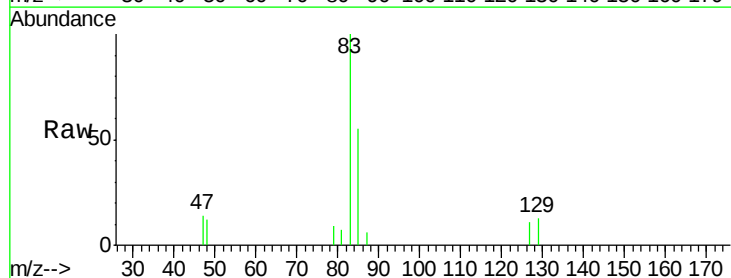
Tgt Ion: 83 Resp: 3069

Ion Ratio Lower Upper

83 100

85 54.9 45.3 84.1

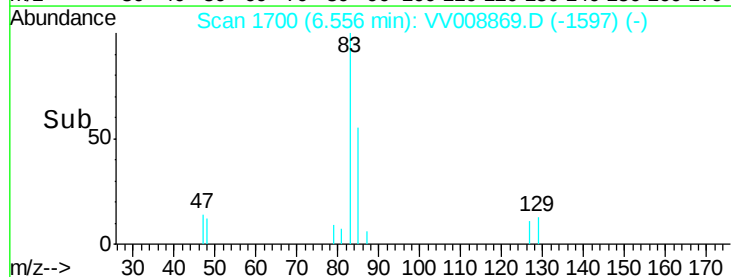
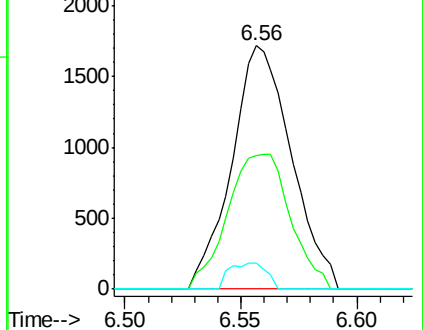
127 10.5 7.2 10.8

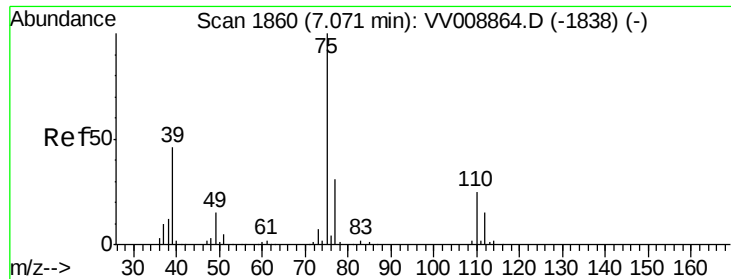


Abundance Ion 83.00 (82.70 to 83.70): VV008869.D (-1597) (-)

Ion 85.00 (84.70 to 85.70): VV008869.D (-1597) (-)

Ion 127.00 (126.70 to 127.70): VV008869.D (-1597) (-)





#42

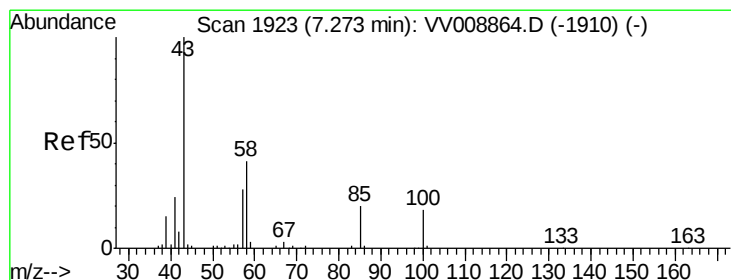
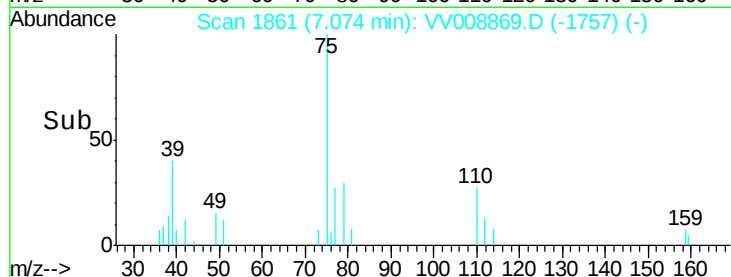
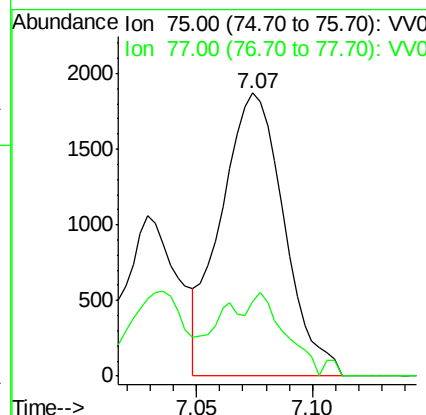
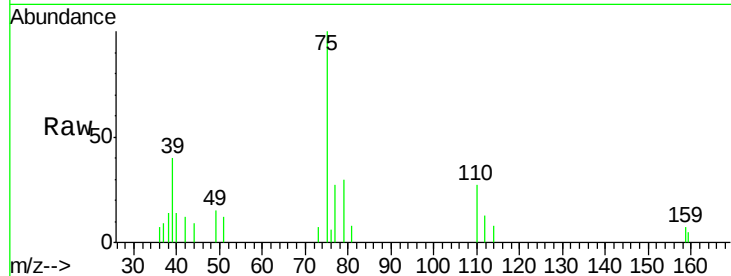
cis-1,3-Dichloropropene
Concen: 1.036 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tgt Ion: 75 Resp: 3538
Ion Ratio Lower Upper
75 100
77 26.5 21.3 39.6

Manual Integrations
APPROVED

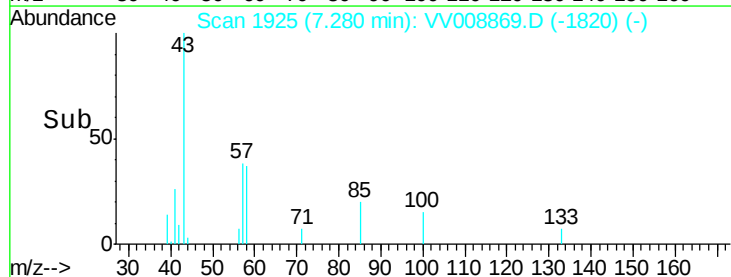
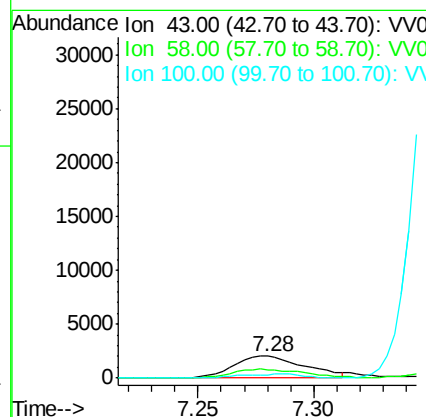
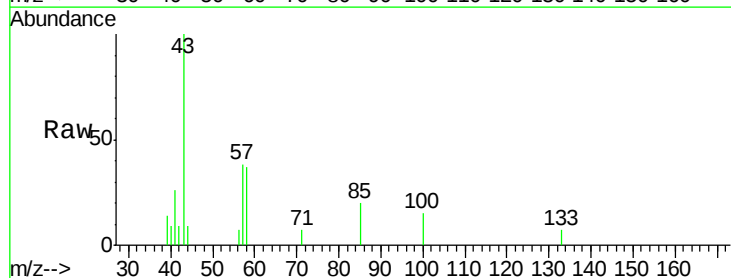
sam
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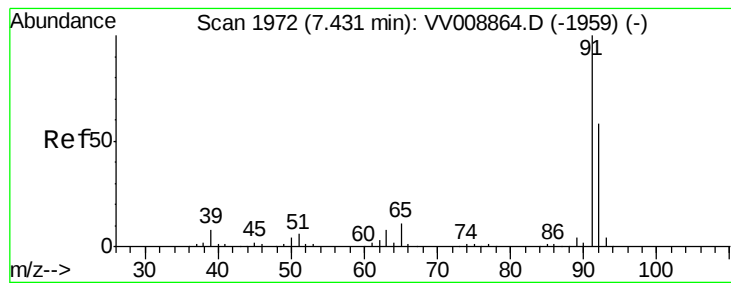


#43

4-Methyl-2-pentanone
Concen: 2.749 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.01 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Tgt Ion: 43 Resp: 4333
Ion Ratio Lower Upper
43 100
58 41.0 32.2 48.4
100 7.1 13.8 20.8#





#44

Toluene

Concen: 1.111 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tgt Ion: 91 Resp: 11318

Ion Ratio Lower Upper

91 100

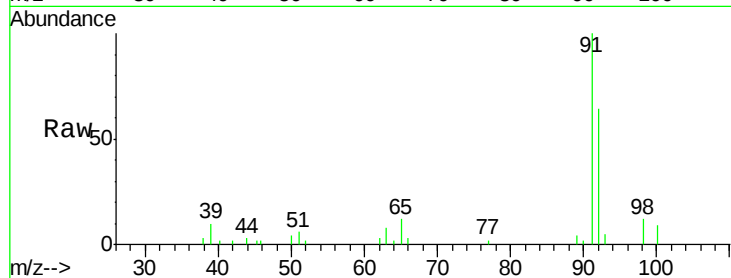
92 64.3 41.7 77.5

Manual Integrations

APPROVED

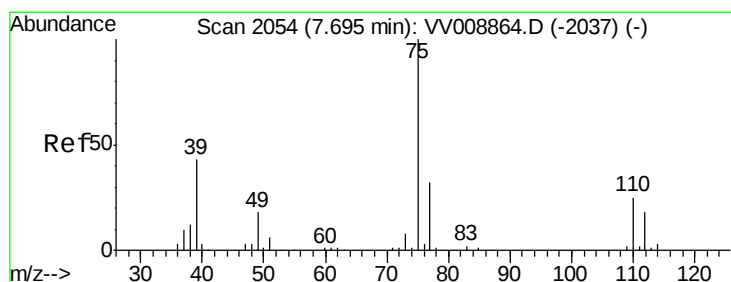
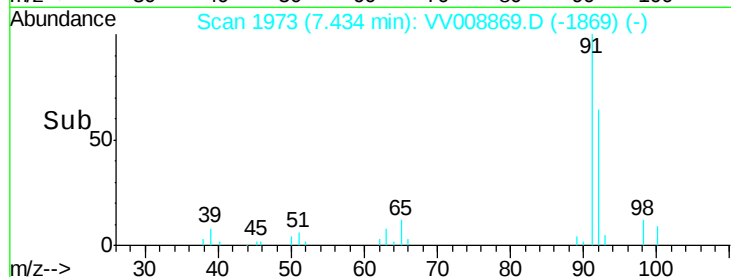
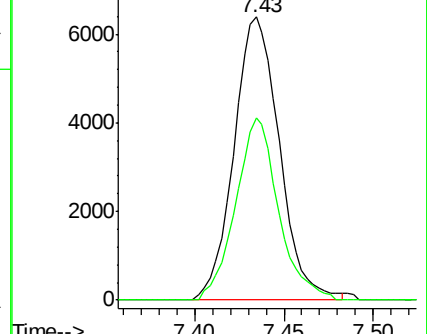
sam

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Abundance Ion 91.00 (90.70 to 91.70): VV008864.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV008869.D (-1951) (-)



#45

trans-1,3-Dichloropropene

Concen: 1.025 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV008869.D

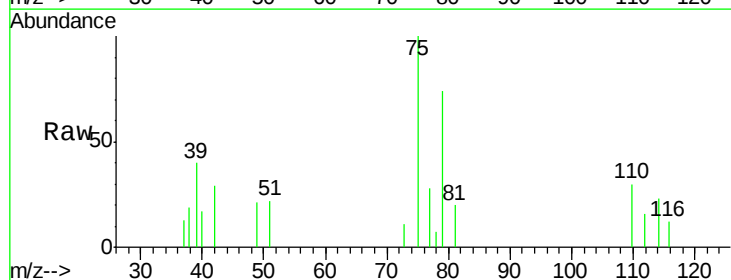
Acq: 06 Dec 2018 21:46

Tgt Ion: 75 Resp: 3051

Ion Ratio Lower Upper

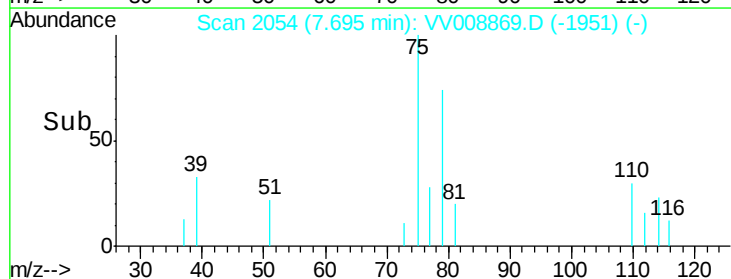
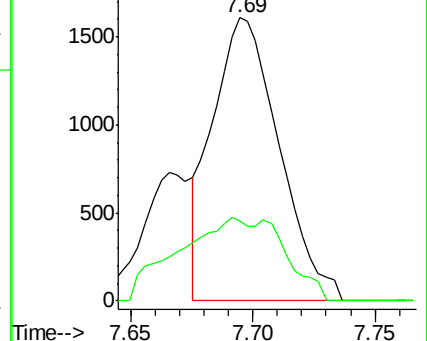
75 100

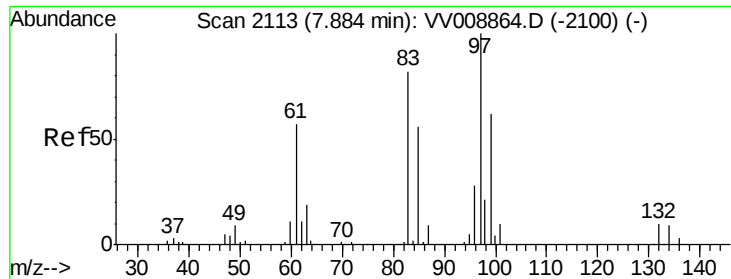
77 28.4 23.6 43.8



Abundance Ion 75.00 (74.70 to 75.70): VV008864.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV008869.D (-1951) (-)





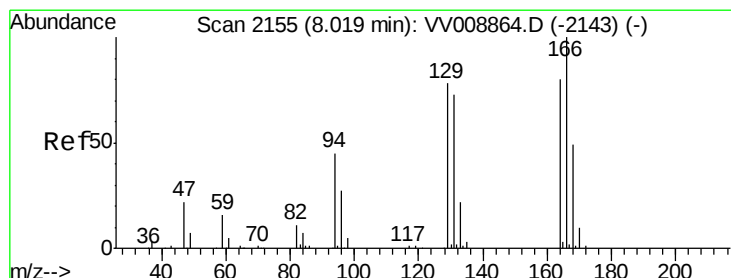
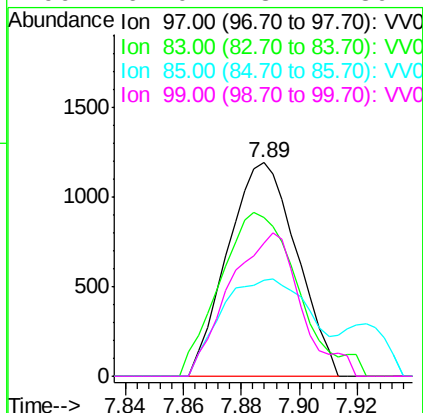
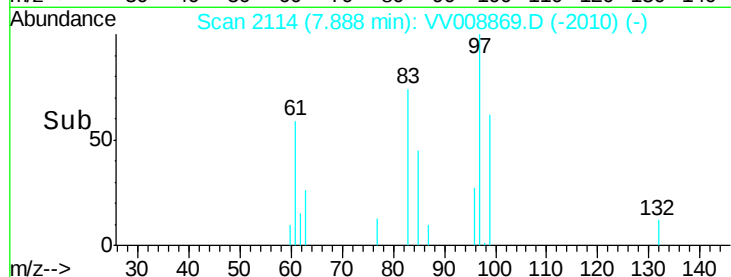
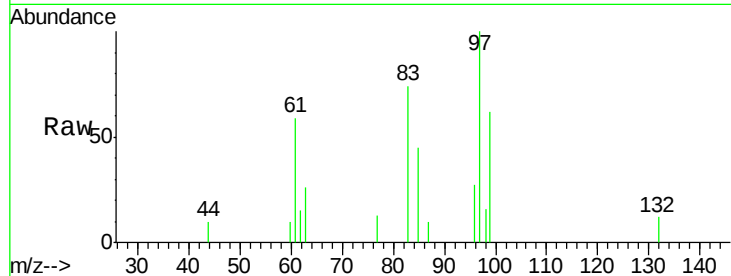
#46
1,1,2-Trichloroethane
Concen: 1.012 ug/L
RT: 7.89 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion:	97	Resp:	1967
Ion	Ratio	Lower	Upper
97	100		
83	74.1	56.6	105.2
85	44.7	36.6	68.0
99	62.0	43.2	80.2

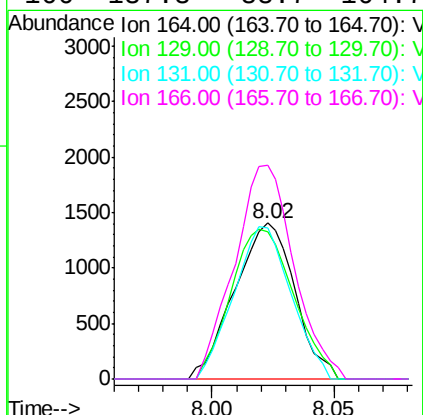
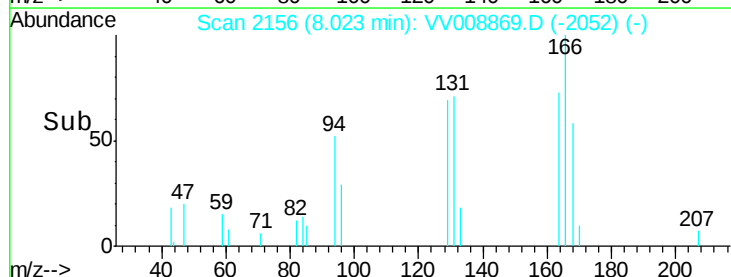
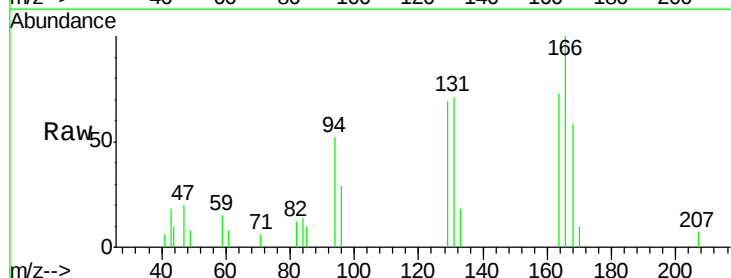
Manual Integrations
APPROVED

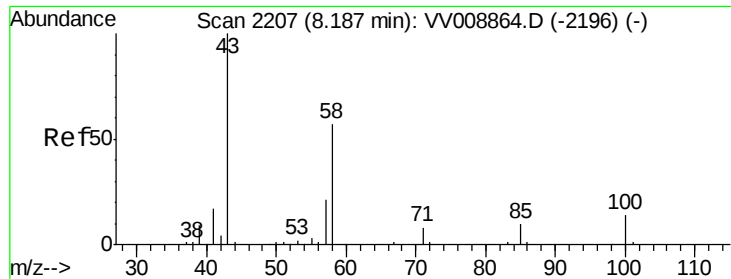
sam
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#47
Tetrachloroethene
Concen: 1.013 ug/L
RT: 8.02 min Scan# 2156
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Tgt Ion:	164	Resp:	2412
Ion	Ratio	Lower	Upper
164	100		
129	94.4	64.6	120.0
131	97.3	64.5	119.7
166	137.3	88.7	164.7





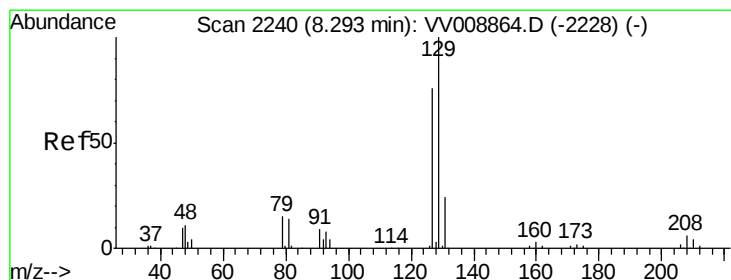
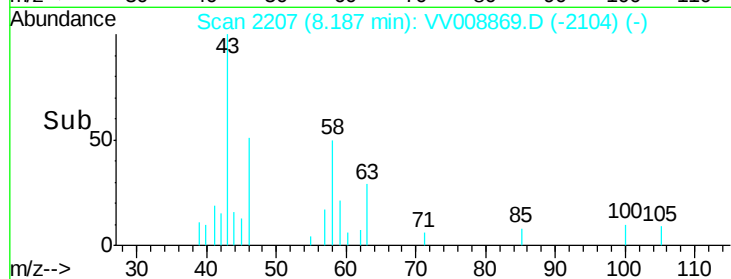
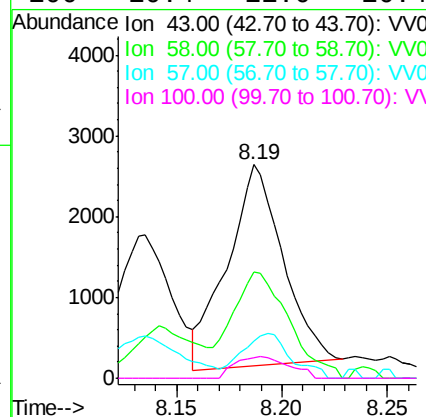
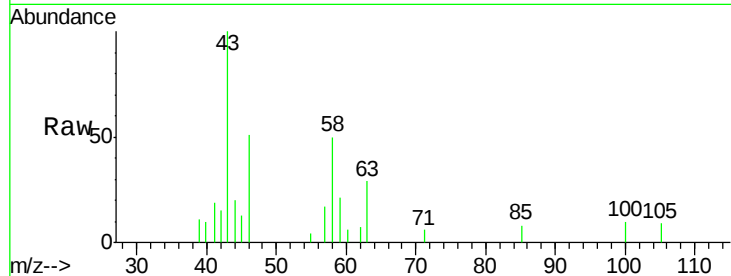
#49
2-Hexanone
Concen: 3.505 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	54.7	43.9	65.9
57	12.5	15.7	23.5
100	10.4	11.0	16.4

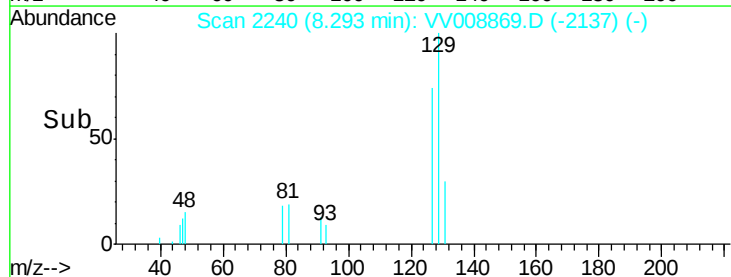
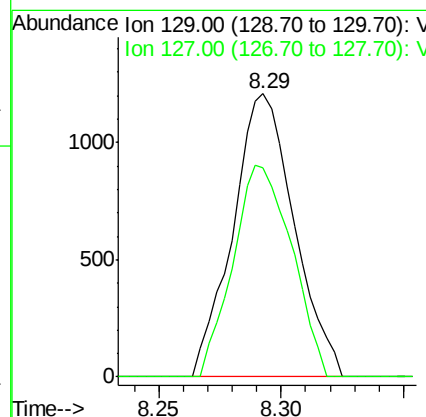
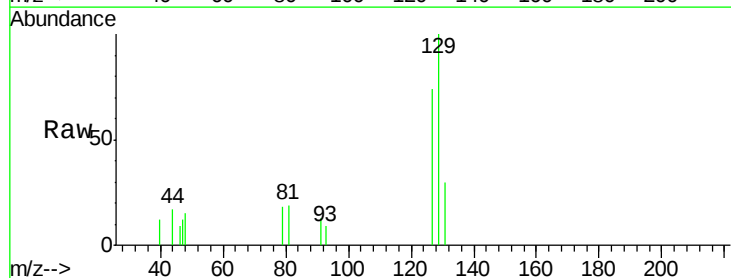
Manual Integrations
APPROVED

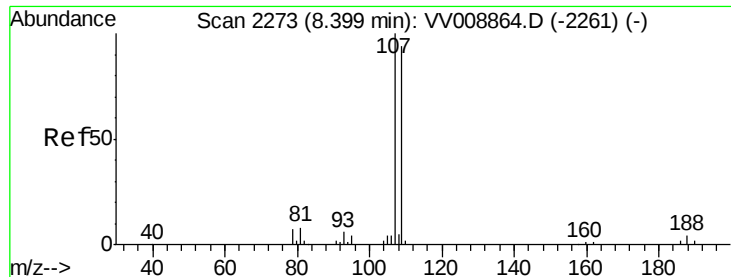
sam
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#50
Dibromochloromethane
Concen: 0.947 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Tgt Ion	Ratio	Lower	Upper
129	100		
127	73.8	53.5	99.3





#51

1,2-Dibromoethane

Concen: 1.046 ug/L m

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

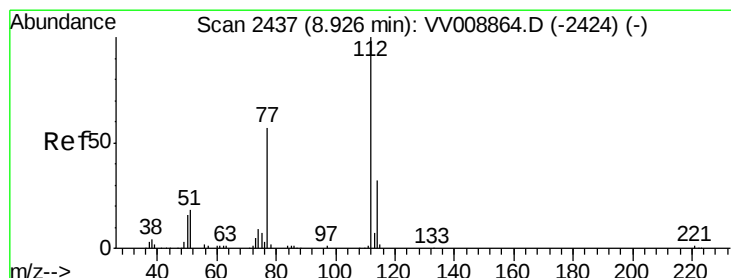
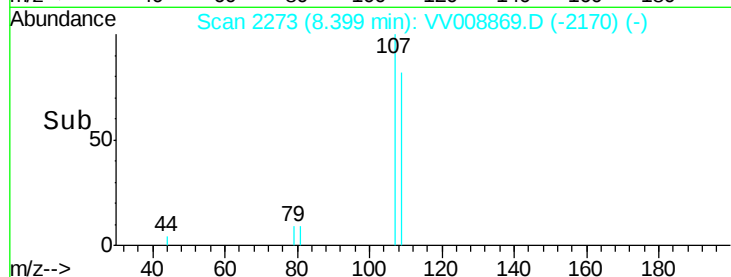
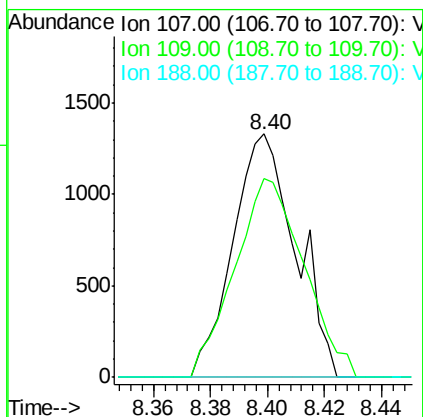
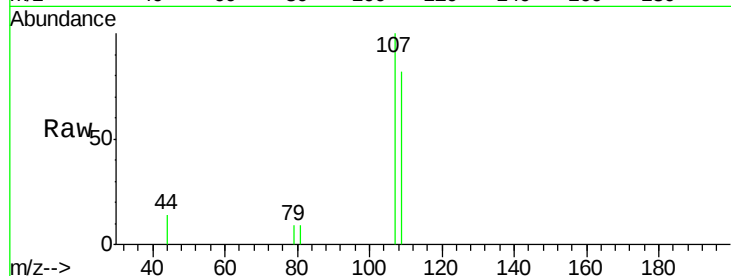
ClientSampleId :

MDL04

Tgt Ion:	107	Resp:	2041
Ion Ratio	Lower	Upper	
107	100		
109	81.6	65.8	122.2
188	0.0	3.0	4.6#

Manual Integrations
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sam
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#52

Chlorobenzene

Concen: 1.128 ug/L

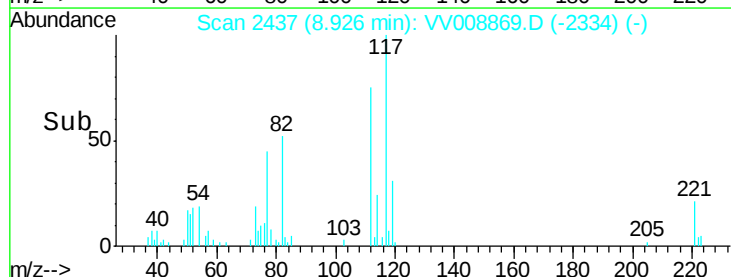
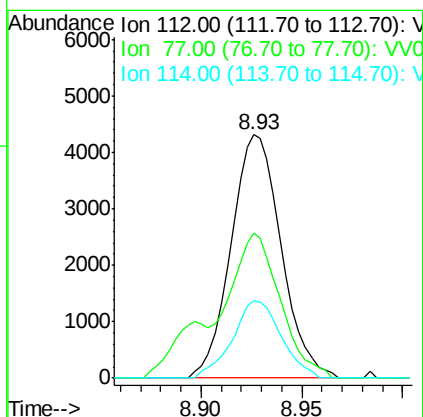
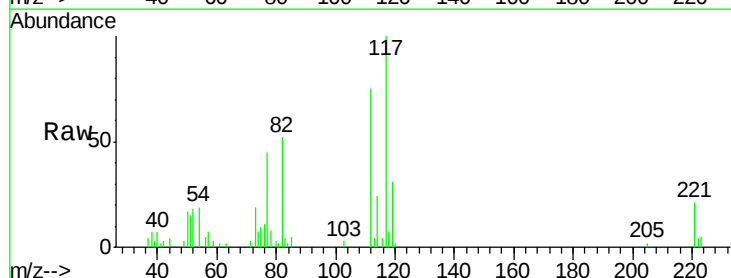
RT: 8.93 min Scan# 2437

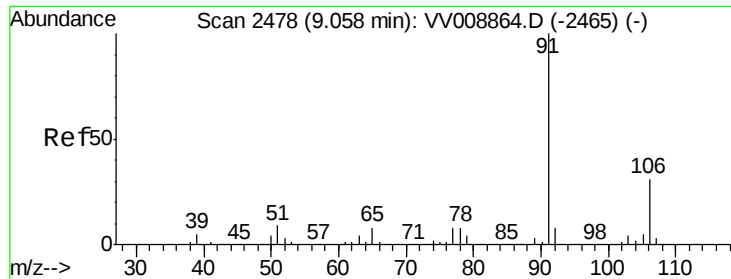
Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Tgt Ion:	112	Resp:	7481
Ion Ratio	Lower	Upper	
112	100		
77	59.5	44.6	66.8
114	31.6	22.6	42.0





#53

Ethylbenzene

Concen: 1.004 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 91 Resp: 11092

Ion Ratio Lower Upper

91 100

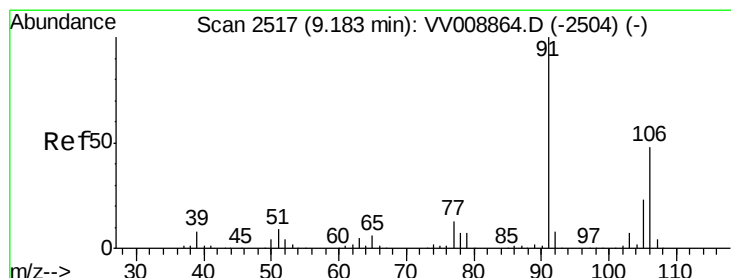
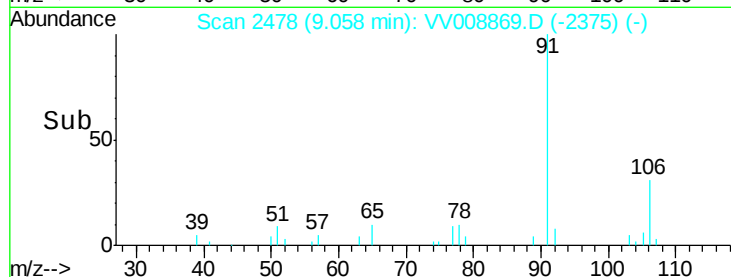
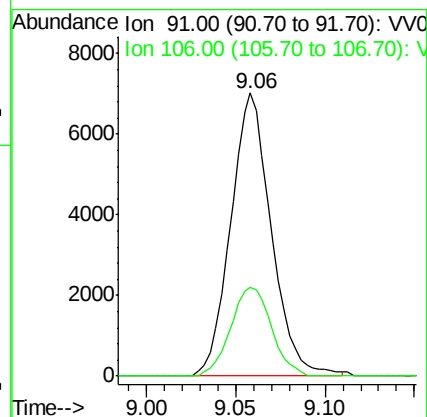
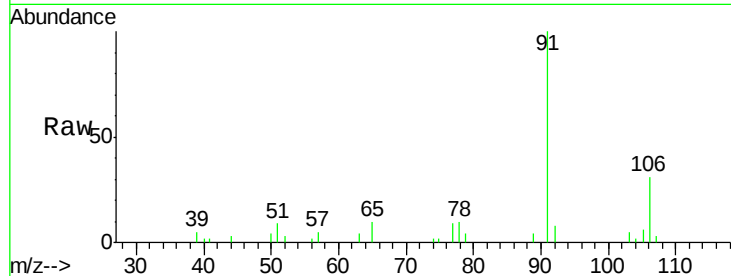
106 31.4 21.3 39.5

Manual Integrations

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#54

m,p-Xylene

Concen: 0.900 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV008869.D

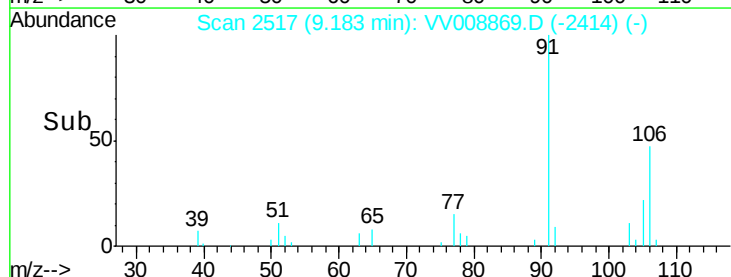
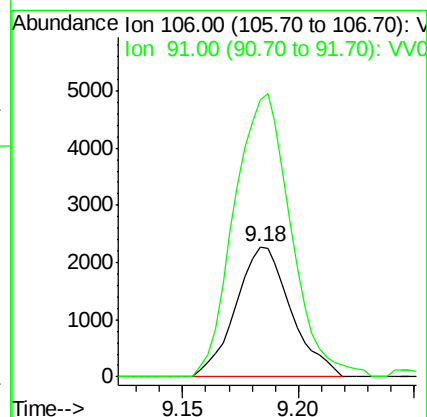
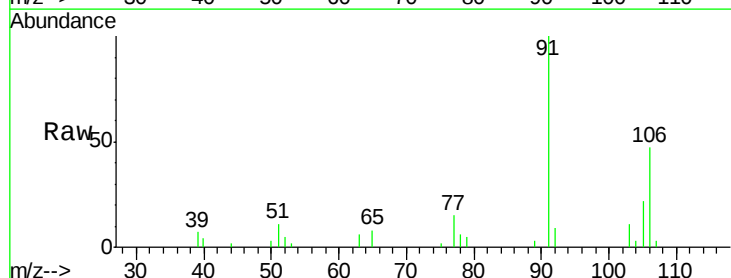
Acq: 06 Dec 2018 21:46

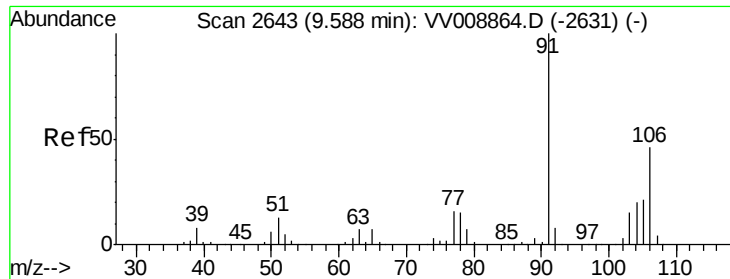
Tgt Ion: 106 Resp: 3766

Ion Ratio Lower Upper

106 100

91 212.8 141.3 262.3





#55

o-xylene

Concen: 0.989 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tgt Ion:106 Resp: 3844

Ion Ratio Lower Upper

106 100

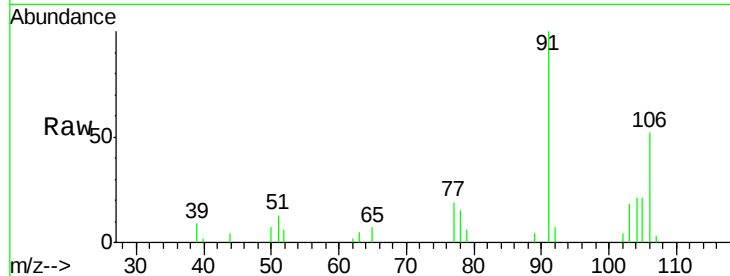
91 193.5 148.3 275.5

Manual Integrations

APPROVED

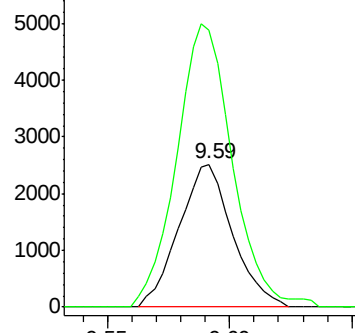
sam

12/11/2018 4:25:59 PM

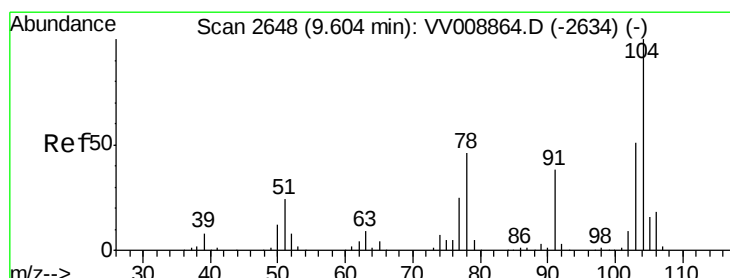
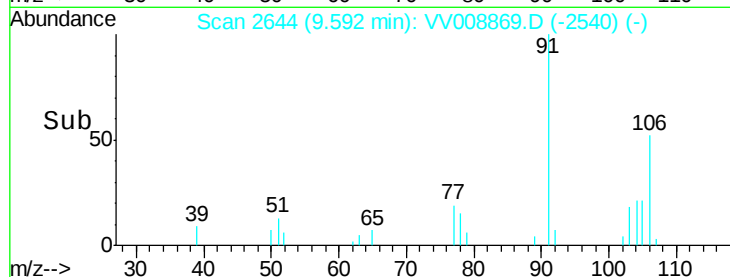


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



Time-->



#56

Styrene

Concen: 0.884 ug/L

RT: 9.61 min Scan# 2650

Delta R.T. 0.01 min

Lab File: VV008869.D

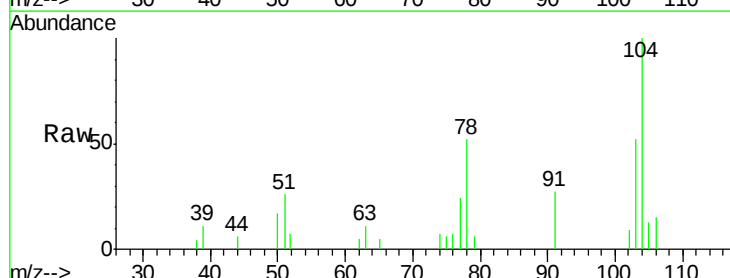
Acq: 06 Dec 2018 21:46

Tgt Ion:104 Resp: 5546

Ion Ratio Lower Upper

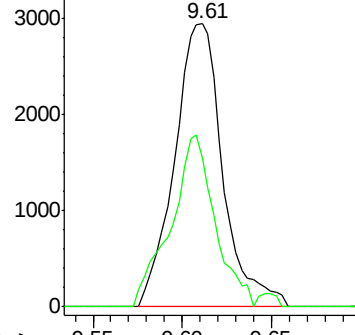
104 100

78 52.5 30.6 56.8

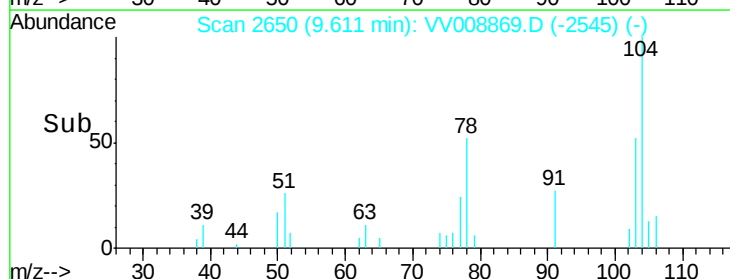


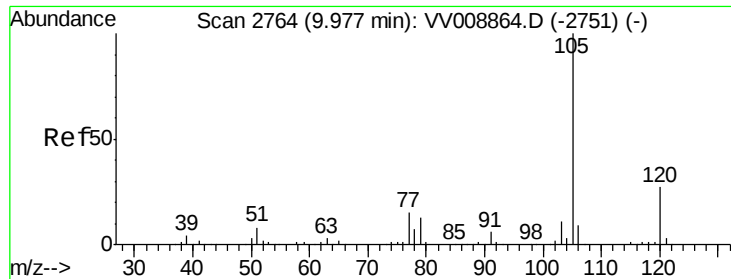
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



Time-->





#57

Isopropylbenzene

Concen: 0.982 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

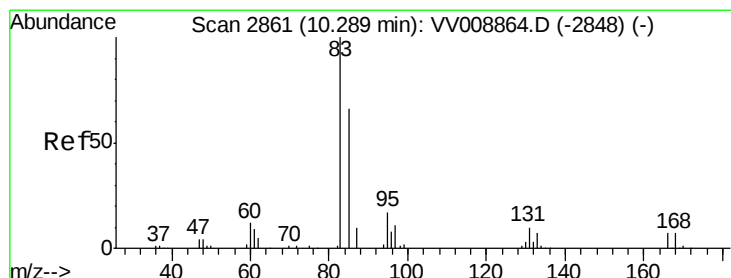
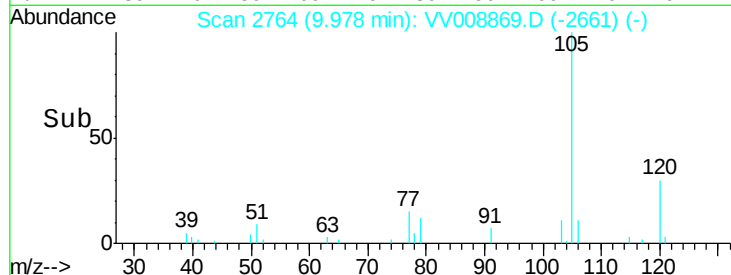
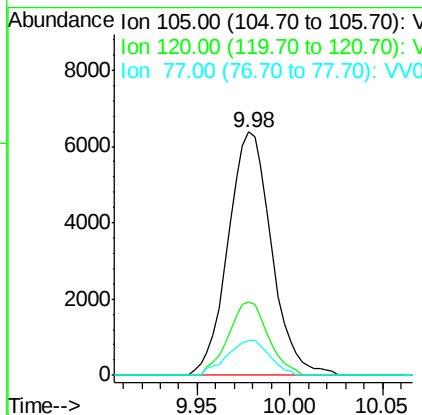
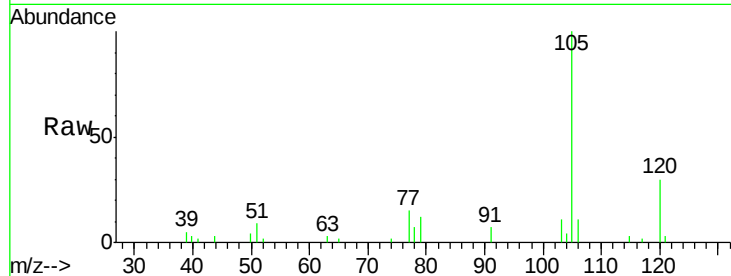
ClientSampleId :

MDL04

Tgt Ion:	105	Resp:	10373
Ion Ratio	Lower	Upper	
105	100		
120	27.7	21.7	32.5
77	14.1	12.4	18.6

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#58

1,1,2,2-Tetrachloroethane

Concen: 1.186 ug/L

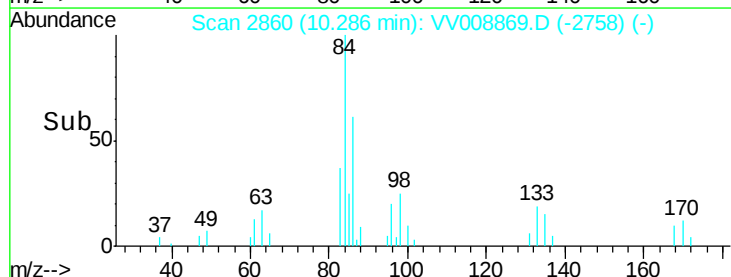
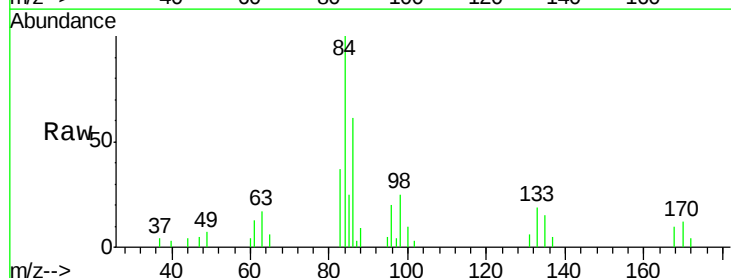
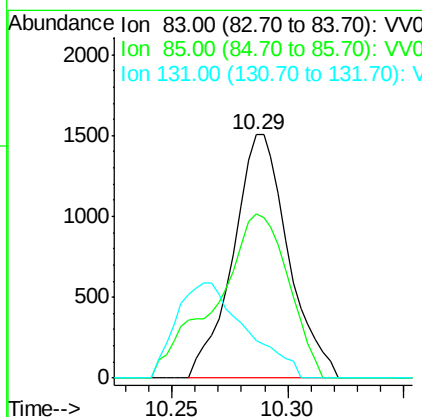
RT: 10.29 min Scan# 2860

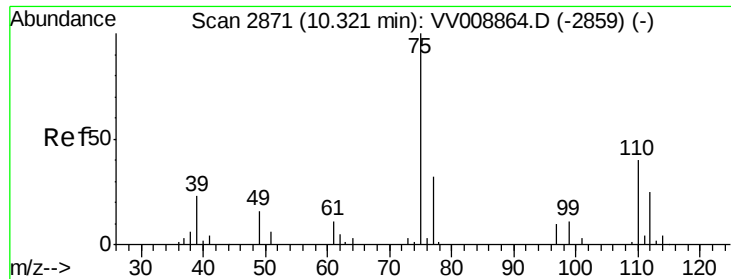
Delta R.T. -0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Tgt Ion:	83	Resp:	2490
Ion Ratio	Lower	Upper	
83	100		
85	67.7	44.3	82.3
131	15.6	7.8	11.8#





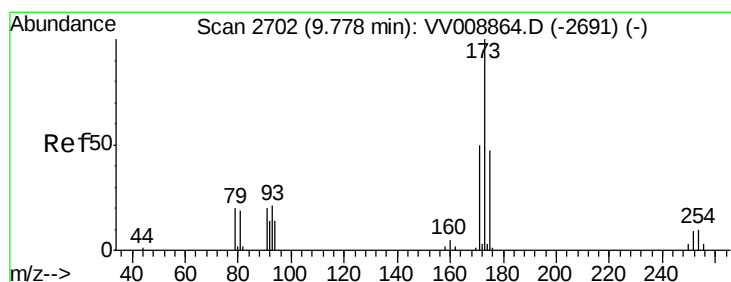
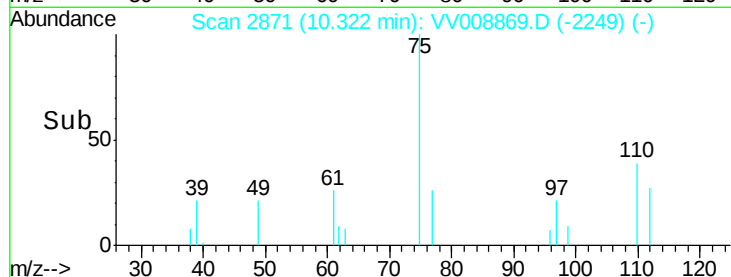
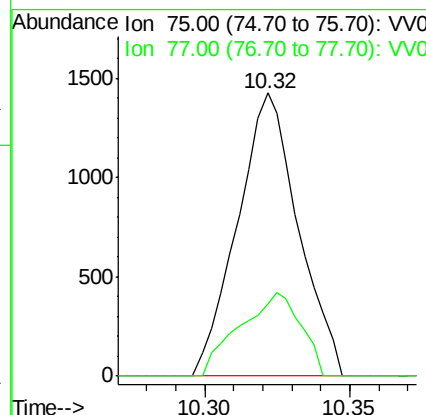
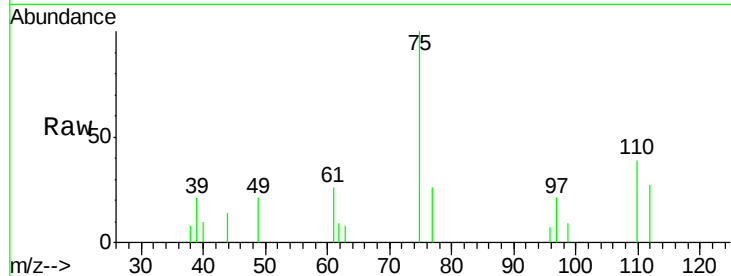
#59
 1,2,3-Trichloropropane
 Concen: 1.142 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tgt Ion: 75 Resp: 2075
 Ion Ratio Lower Upper
 75 100
 77 29.6 25.6 38.4

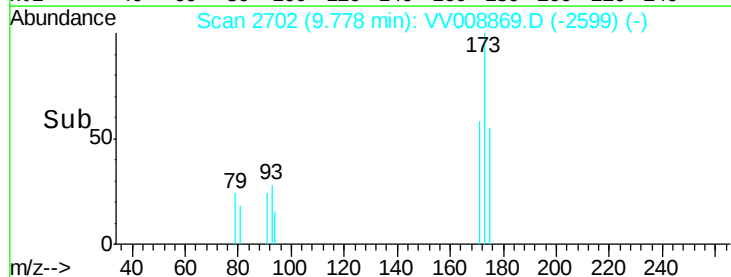
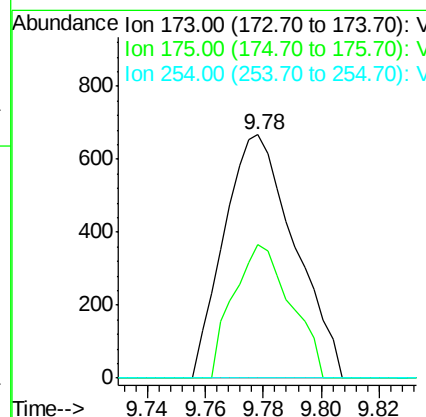
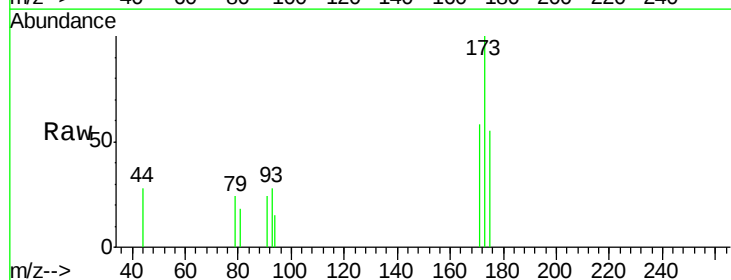
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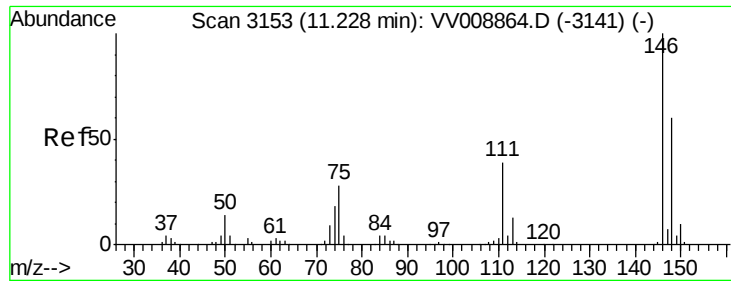
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#62
 Bromoform
 Concen: 0.898 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.00 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Tgt Ion: 173 Resp: 1126
 Ion Ratio Lower Upper
 173 100
 175 44.8 37.7 56.5
 254 0.0 7.1 10.7#





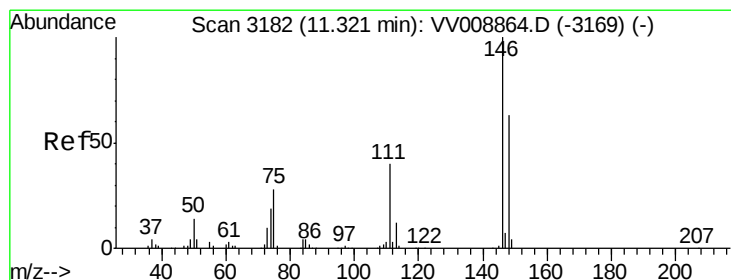
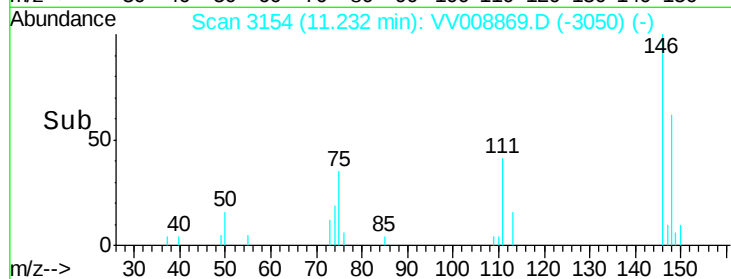
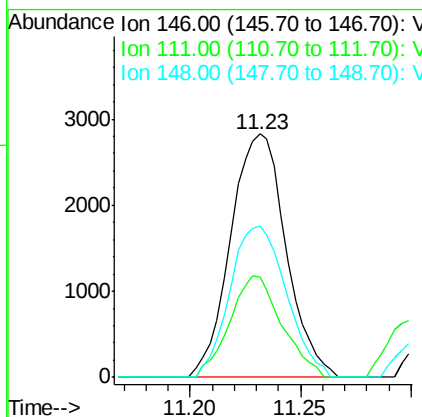
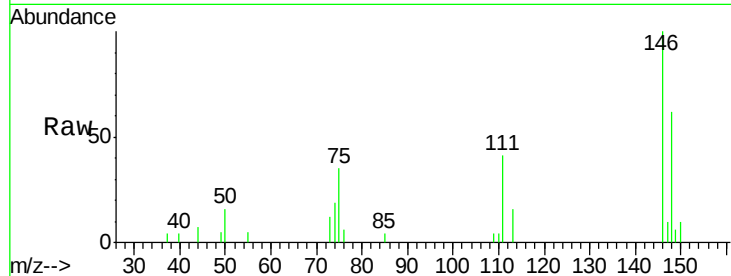
#63
 1,3-Dichlorobenzene
 Concen: 1.100 ug/L
 RT: 11.23 min Scan# 3154
 Delta R.T. 0.00 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.2	27.5	51.1
148	62.1	44.0	81.8

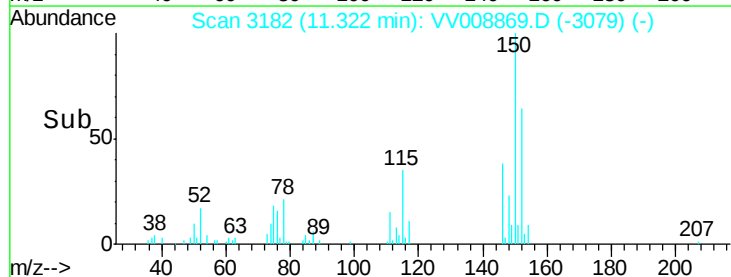
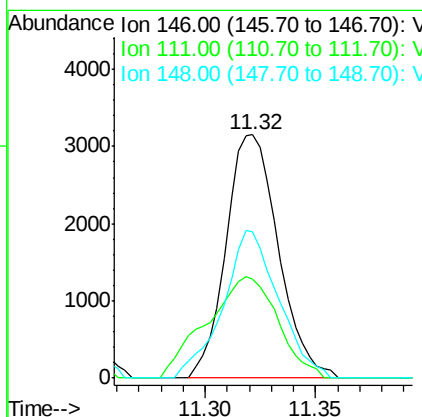
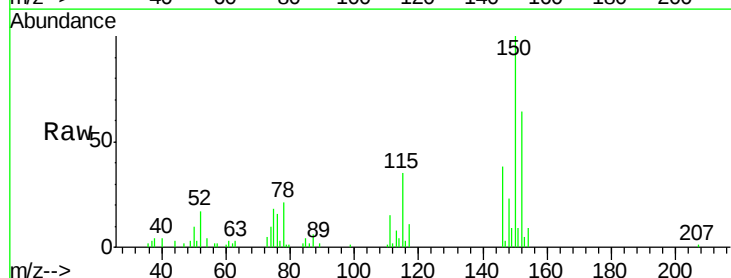
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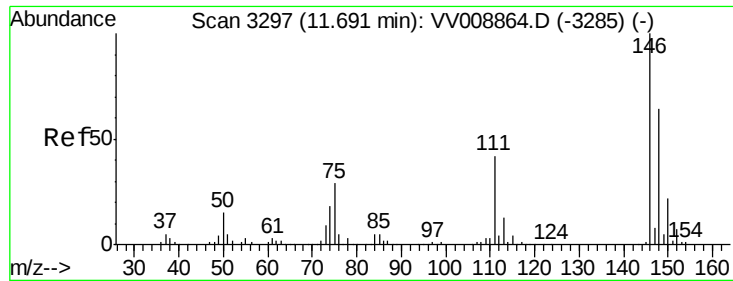
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#64
 1,4-Dichlorobenzene
 Concen: 1.127 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	26.8	49.8
148	59.9	45.8	85.0





#65

1,2-Dichlorobenzene

Concen: 1.109 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Instrument :

MSVOA_V

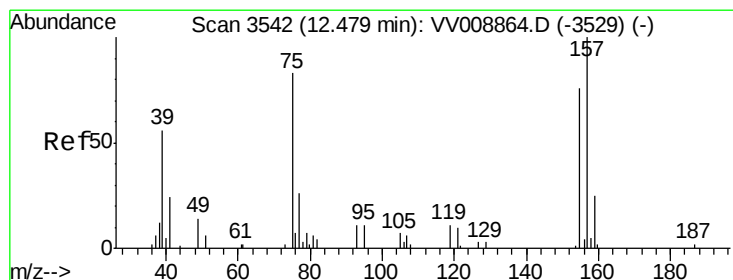
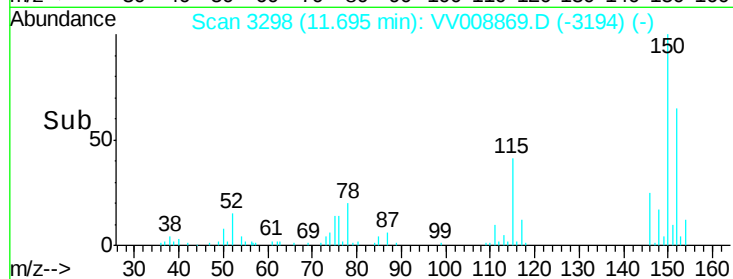
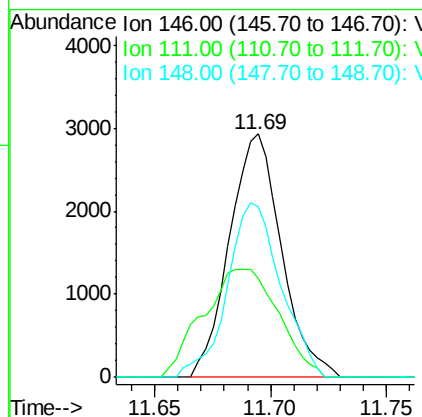
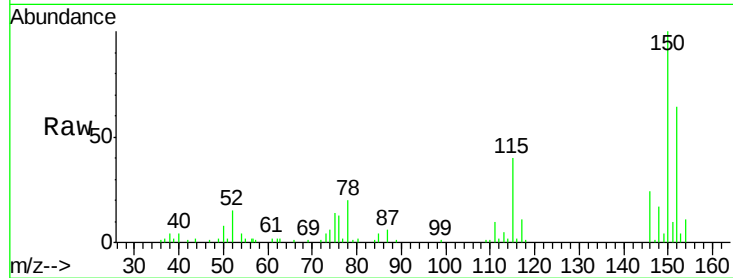
ClientSampled :

MDL04

Tgt Ion:	146	Resp:	4578
Ion Ratio	Lower	Upper	
146	100		
111	40.9	34.2	51.4
148	70.1	51.0	76.6

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#66

1,2-Dibromo-3-chloropropane

Concen: 1.009 ug/L m

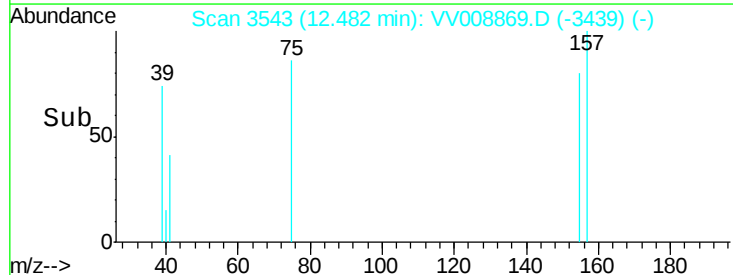
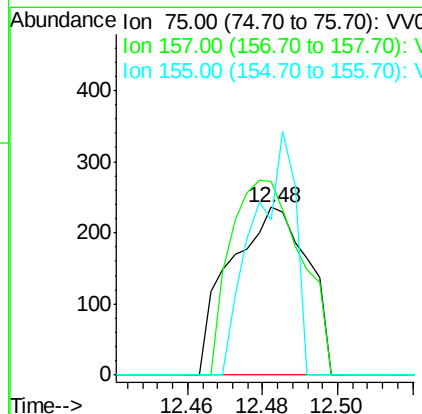
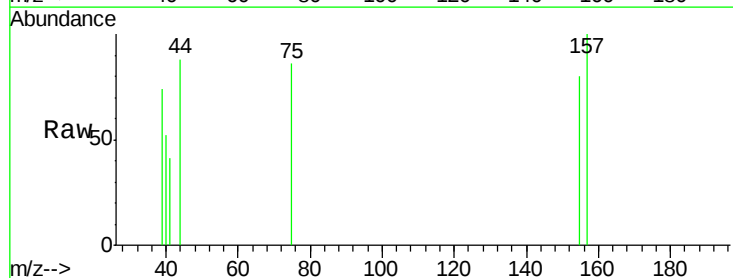
RT: 12.48 min Scan# 3543

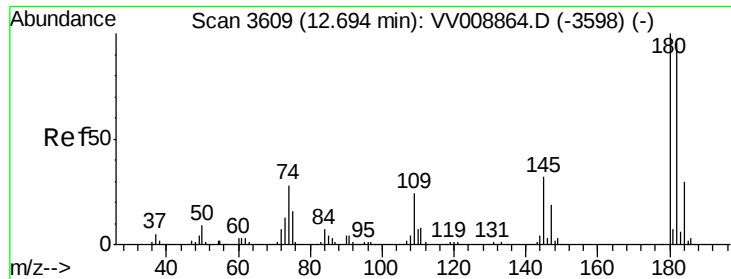
Delta R.T. 0.00 min

Lab File: VV008869.D

Acq: 06 Dec 2018 21:46

Tgt Ion:	75	Resp:	341
Ion Ratio	Lower	Upper	
75	100		
157	115.7	95.8	143.6
155	92.4	71.4	107.2





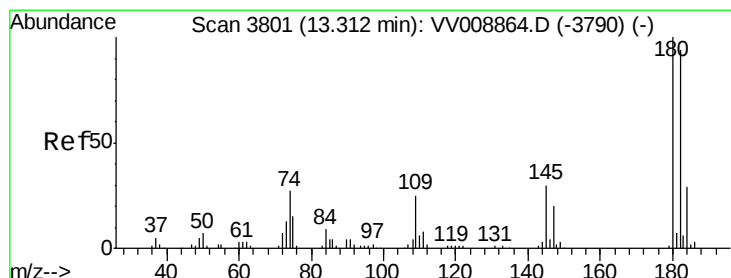
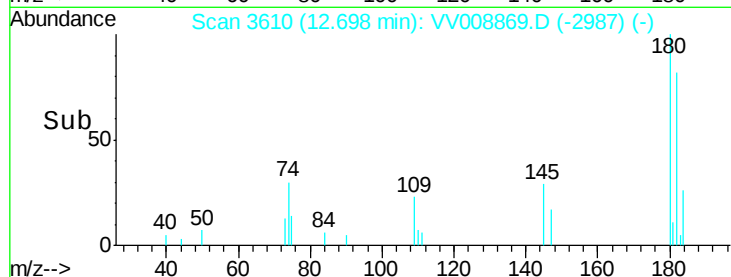
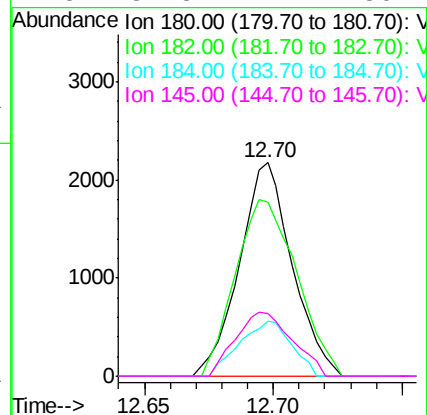
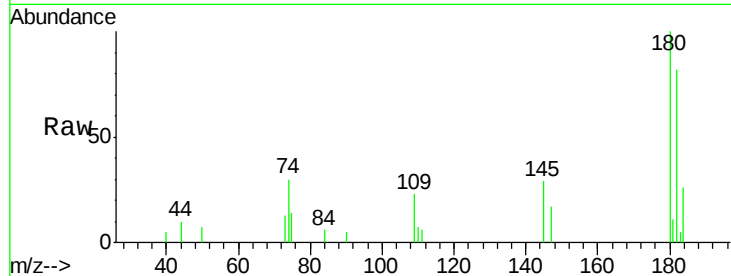
#67
 1,3,5-Trichlorobenzene
 Concen: 0.962 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tgt Ion:	180	Resp:	3111
Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.9	113.9
184	25.7	23.8	35.6
145	32.3	24.2	36.4

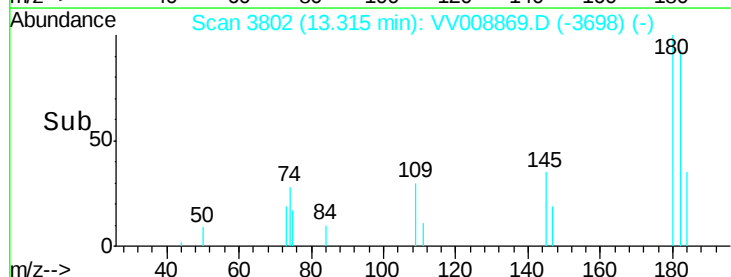
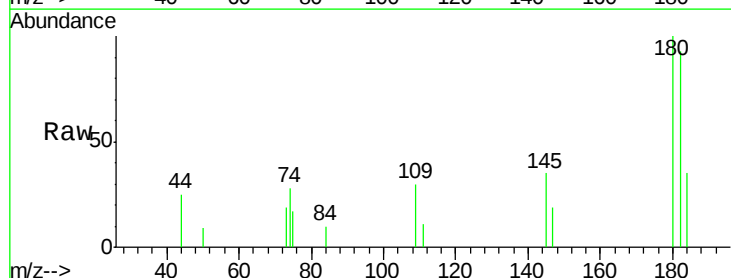
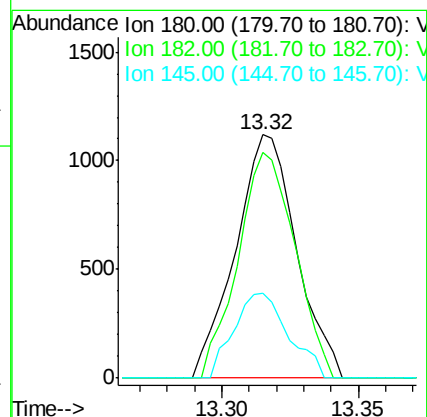
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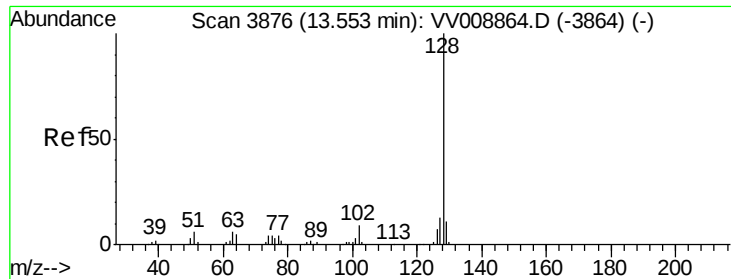
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#68
 1,2,4-trichlorobenzene
 Concen: 0.765 ug/L
 RT: 13.32 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008869.D
 Acq: 06 Dec 2018 21:46

Tgt Ion:	180	Resp:	1734
Ion	Ratio	Lower	Upper
180	100		
182	86.6	77.4	116.0
145	31.4	25.6	38.4





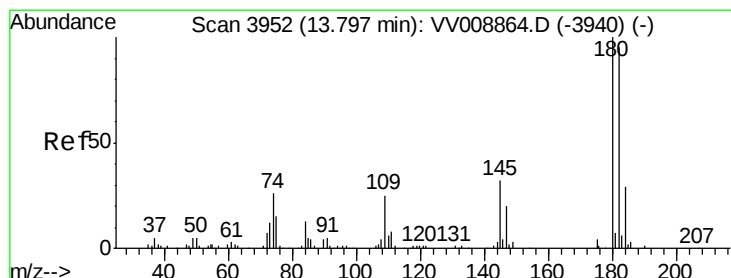
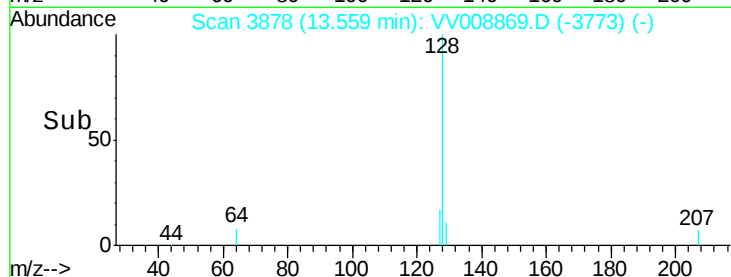
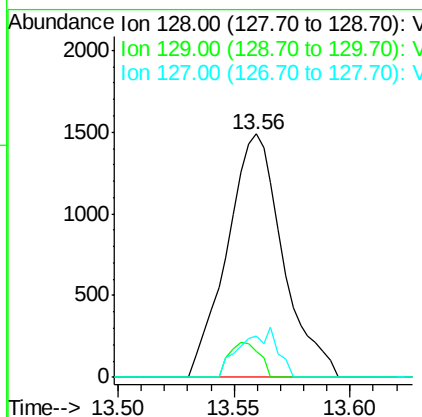
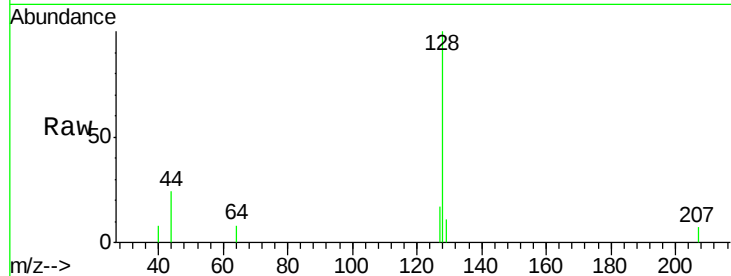
#69
Naphthalene
Concen: 0.637 ug/L
RT: 13.56 min Scan# 3878
Delta R.T. 0.01 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tgt Ion	Ratio	Lower	Upper
128	100		
129	7.7	8.6	13.0#
127	8.8	10.0	15.0#

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#70
1,2,3-Trichlorobenzene
Concen: 0.890 ug/L
RT: 13.80 min Scan# 3952
Delta R.T. 0.00 min
Lab File: VV008869.D
Acq: 06 Dec 2018 21:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.8	76.1	114.1
145	30.4	26.7	40.1

