

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV110619\
 Data File : VV013501.D
 Acq On : 06 Nov 2019 16:46
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.0G/5mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 11/7/2019 10:49:46 AM

Quant Time: Nov 07 03:58:42 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM110619WMA.M

Quant Title : VOC Analysis

QLast Update : Thu Nov 07 01:53:11 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	899761	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	852264	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	402868	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	254061	48.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.44%
7) Chloroethane-d5	1.58	69	216332	50.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.88%
11) 1,1-Dichloroethene-d2	2.13	63	348218	37.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.58%
21) 2-Butanone-d5	3.92	46	439965	112.93	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.93%
24) Chloroform-d	4.40	84	554187	48.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.90%
26) 1,2-Dichloroethane-d4	5.08	65	382853	51.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.58%
32) Benzene-d6	5.10	84	1175951	51.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.46%
36) 1,2-Dichloropropane-d6	6.11	67	378367	51.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.64%
41) Toluene-d8	7.36	98	1057181	50.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.10%
43) trans-1,3-Dichloropropene-	7.66	79	169223	49.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.88%
47) 2-Hexanone-d5	8.13	63	262492	98.13	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.13%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	457727	49.41	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.82%
64) 1,2-Dichlorobenzene-d4	11.67	152	433239	53.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.88%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	16878	2.254 ug/L	95
3) Chloromethane	1.25	50	16707	2.349 ug/L	100
5) Vinyl chloride	1.32	62	15864	2.387 ug/L #	41
6) Bromomethane	1.53	94	8033m	2.519 ug/L	
8) Chloroethane	1.60	64	8855	2.378 ug/L	94
9) Trichlorofluoromethane	1.77	101	20298	2.300 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	15313	3.082 ug/L #	80
12) 1,1-Dichloroethene	2.14	96	13907m	2.932 ug/L	
13) Acetone	2.18	43	15601	4.291 ug/L	95
14) Carbon disulfide	2.32	76	38713	2.332 ug/L	98
15) Methyl Acetate	2.46	43	13134	1.980 ug/L #	86
16) Methylene chloride	2.54	84	15767	2.456 ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	13071	2.213 ug/L	95
18) Methyl tert-butyl Ether	2.80	73	36799	2.043 ug/L	95
19) 1,1-Dichloroethane	3.23	63	24035	2.134 ug/L #	95
20) cis-1,2-Dichloroethene	3.96	96	14768m	2.290 ug/L	
22) 2-Butanone	4.03	43	15894	3.300 ug/L	80

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Instrument :
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 ClientSampleId :
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Manual Integrations
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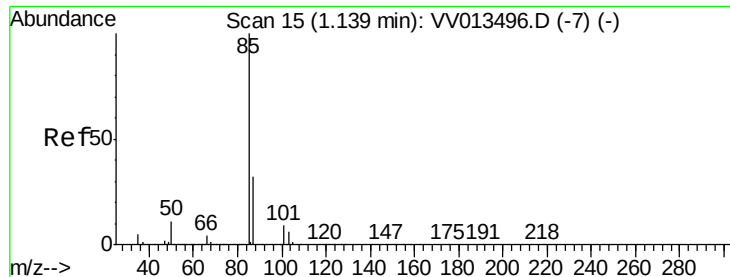
MMDadoda
 11/7/2019 10:49:46 AM

Quant Time: Nov 07 03:58:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM110619WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 07 01:53:11 2019
 Response via : Initial Calibration

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

23) Bromochloromethane	4.29	128	8185m	2.401	ug/L	
25) Chloroform	4.42	83	51985	4.486	ug/L	97
27) 1,2-Dichloroethane	5.18	62	19210	2.163	ug/L	99
29) Cyclohexane	4.72	56	19462	1.988	ug/L	96
30) 1,1,1-Trichloroethane	4.66	97	20602	2.172	ug/L	93
31) Carbon tetrachloride	4.87	117	18530	2.191	ug/L	99
33) Benzene	5.15	78	53433	2.208	ug/L	100
34) Trichloroethene	5.96	95	15527	2.415	ug/L	93
35) Methylcyclohexane	6.18	83	20966	2.115	ug/L	97
37) 1,2-Dichloropropane	6.22	63	13680	2.148	ug/L #	89
38) Bromodichloromethane	6.56	83	18090	2.160	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	20622	2.131	ug/L	96
40) 4-Methyl-2-pentanone	7.27	43	33111	4.033	ug/L	97
42) Toluene	7.43	91	57266	2.271	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	18907	2.245	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	12846	2.154	ug/L	96
46) Tetrachloroethene	8.02	164	12950	2.360	ug/L	92
48) 2-Hexanone	8.18	43	49136	7.578	ug/L #	91
49) Dibromochloromethane	8.29	129	13567	1.978	ug/L	92
50) 1,2-Dibromoethane	8.40	107	13628	2.177	ug/L #	98
51) Chlorobenzene	8.92	112	37304	2.226	ug/L	98
52) Ethylbenzene	9.05	91	54515	1.992	ug/L	97
53) m,p-Xylene	9.18	106	20001	1.926	ug/L	99
54) o-xylene	9.59	106	19461	1.954	ug/L	92
55) Styrene	9.60	104	29866	1.734	ug/L	94
56) Isopropylbenzene	9.97	105	47693	1.823	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	22273	2.473	ug/L #	92
59) 1,2,3-Trichloropropane	10.32	75	17080	2.278	ug/L	98
61) Bromoform	9.77	173	10714	2.268	ug/L	95
62) 1,3-Dichlorobenzene	11.22	146	27471	2.250	ug/L	92
63) 1,4-Dichlorobenzene	11.32	146	30697	2.427	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	30922	2.529	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	3556	2.108	ug/L	88
67) 1,3,5-Trichlorobenzene	12.69	180	21479	2.252	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	18282	2.188	ug/L	99
69) Naphthalene	13.55	128	43270m	1.938	ug/L	
70) 1,2,3-Trichlorobenzene	13.79	180	18720m	2.109	ug/L	

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



#2

Dichlorodifluoromethane

Concen: 2.254 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 85 Resp: 16878

Ion Ratio Lower Upper

85 100

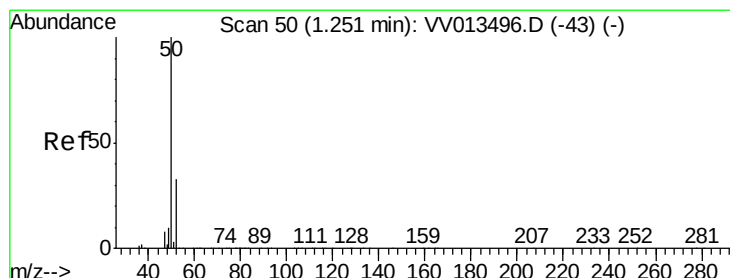
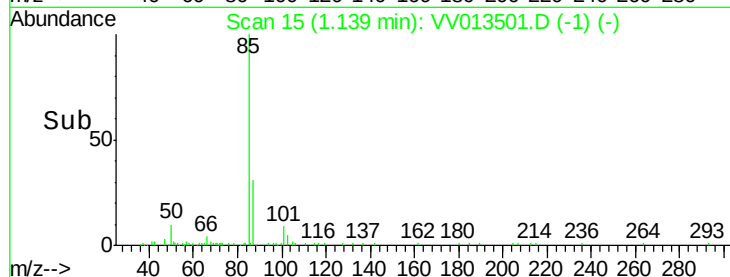
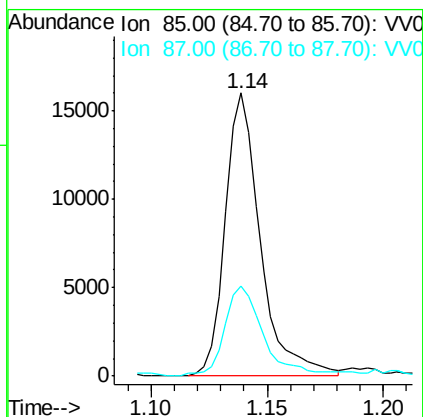
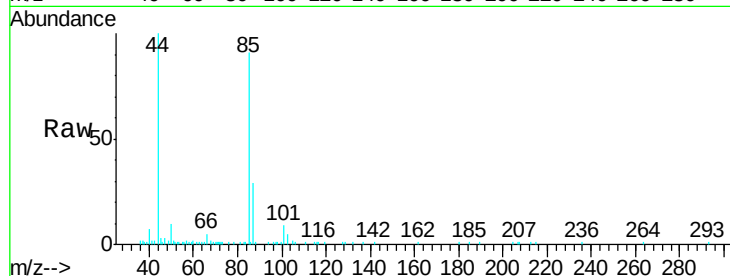
87 34.5 25.4 38.0

Manual Integrations

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#3

Chloromethane

Concen: 2.349 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013501.D

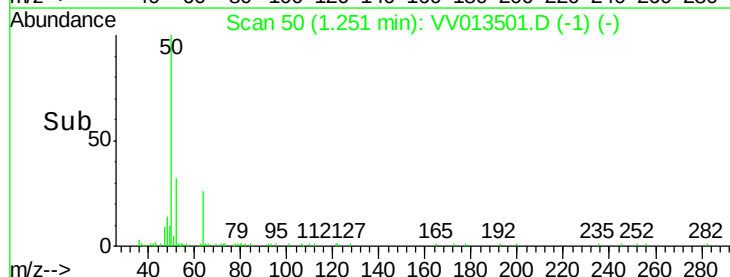
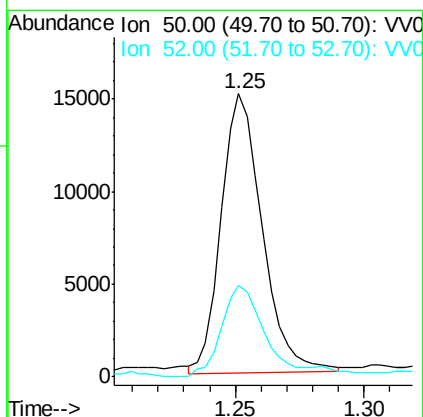
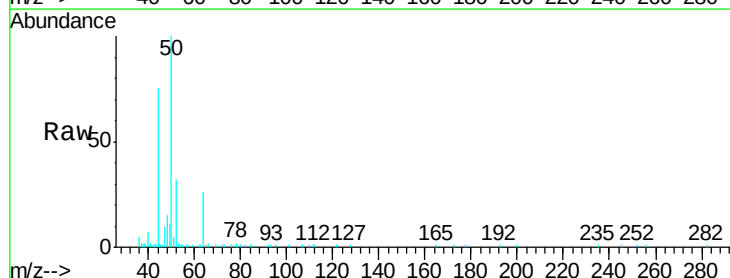
Acq: 06 Nov 2019 16:46

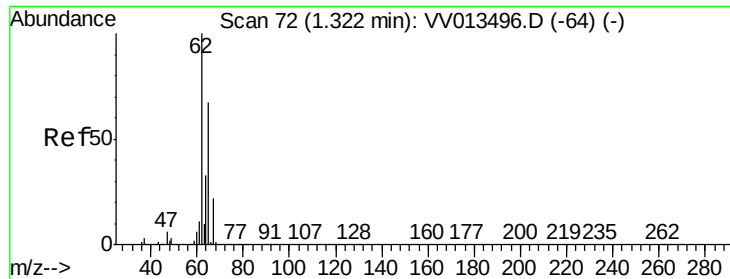
Tgt Ion: 50 Resp: 16707

Ion Ratio Lower Upper

50 100

52 32.2 22.5 41.9





#5

Vinyl chloride

Concen: 2.387 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 62 Resp: 15864

Ion Ratio Lower Upper

62 100

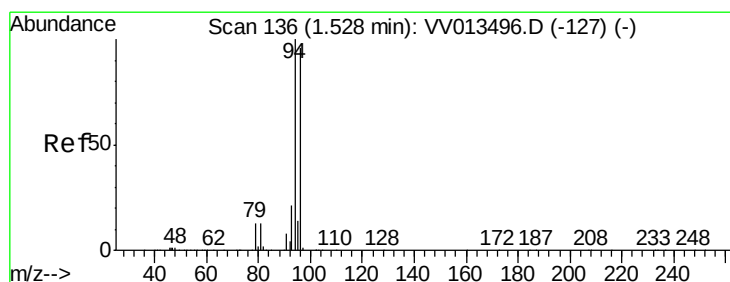
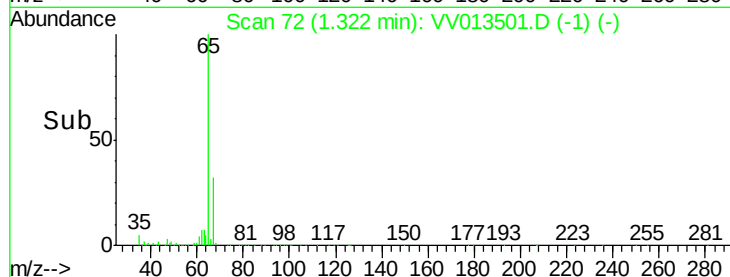
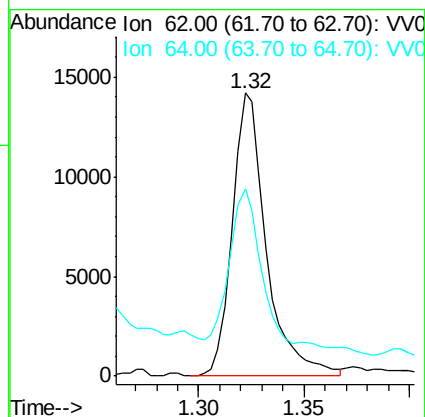
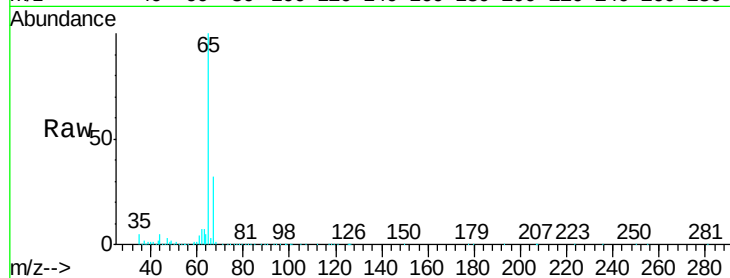
64 66.4 23.1 42.9#

Manual Integrations

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#6

Bromomethane

Concen: 2.519 ug/L m

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013501.D

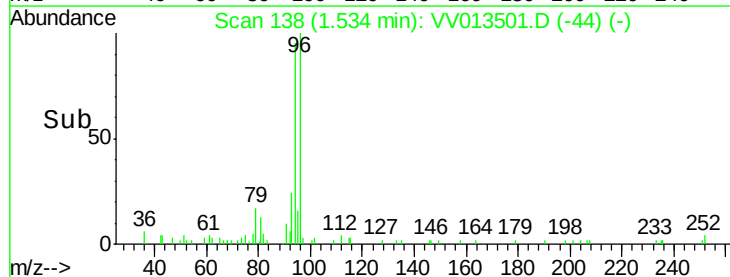
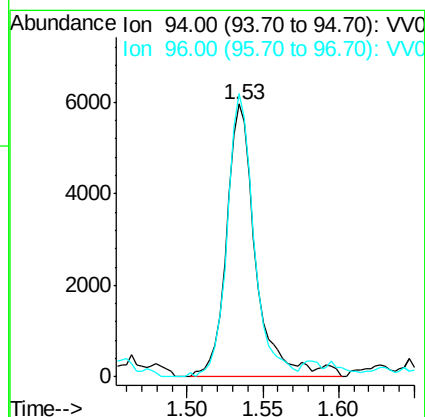
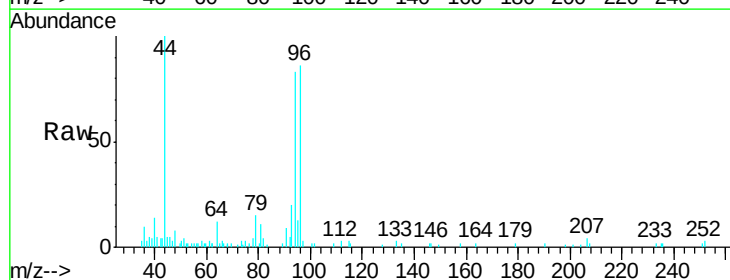
Acq: 06 Nov 2019 16:46

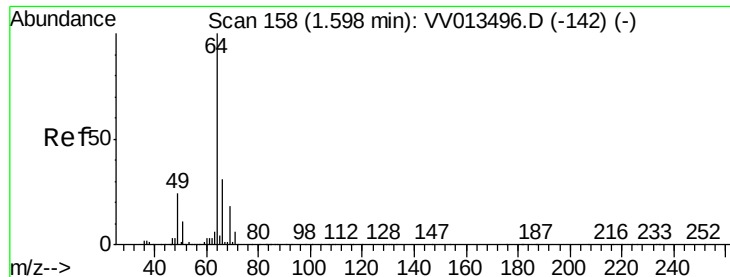
Tgt Ion: 94 Resp: 8033

Ion Ratio Lower Upper

94 100

96 103.8 67.4 125.2





#8

Chloroethane

Concen: 2.378 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 64 Resp: 8855

Ion Ratio Lower Upper

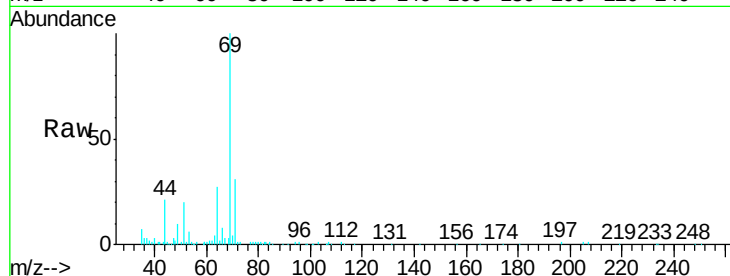
64 100

66 29.0 22.5 41.9

Manual Integrations
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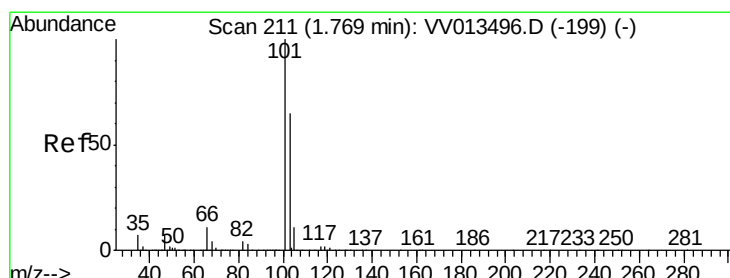
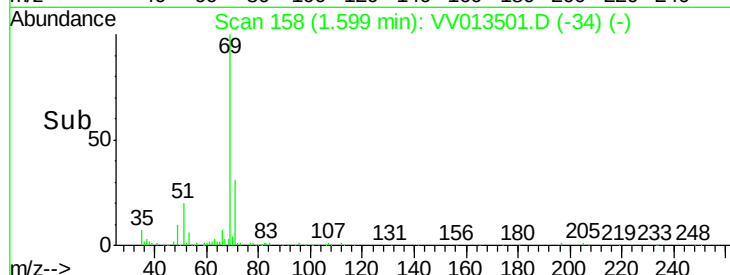
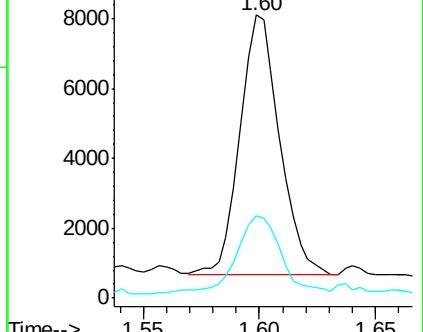
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Abundance Ion 64.00 (63.70 to 64.70): VV013496.D (-142) (-)

Ion 66.00 (65.70 to 66.70): VV013496.D (-142) (-)



#9

Trichlorofluoromethane

Concen: 2.300 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV013501.D

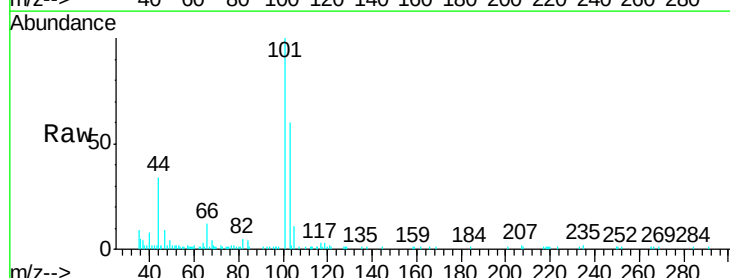
Acq: 06 Nov 2019 16:46

Tgt Ion: 101 Resp: 20298

Ion Ratio Lower Upper

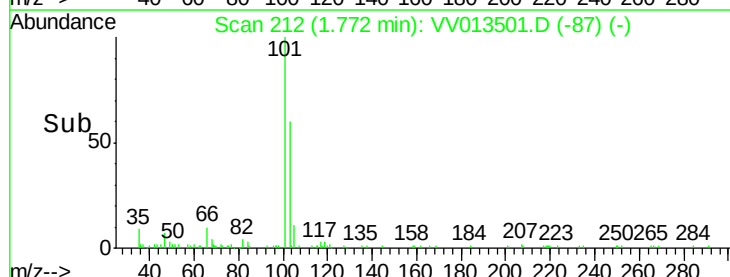
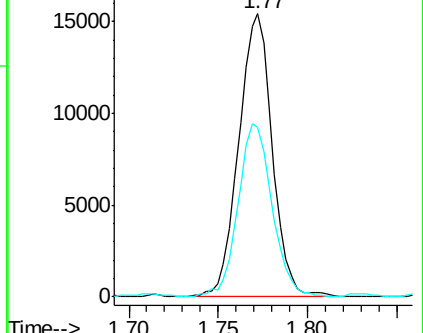
101 100

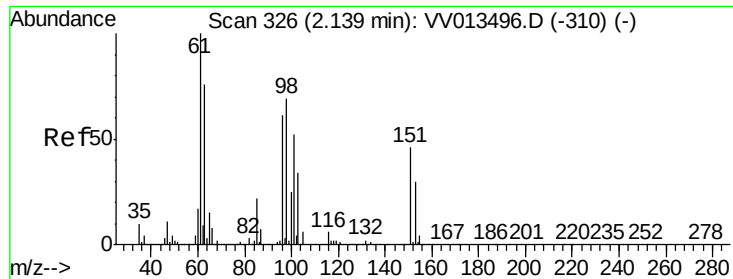
103 62.1 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV013496.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV013496.D (-199) (-)





#10

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

Concen: 3.082 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

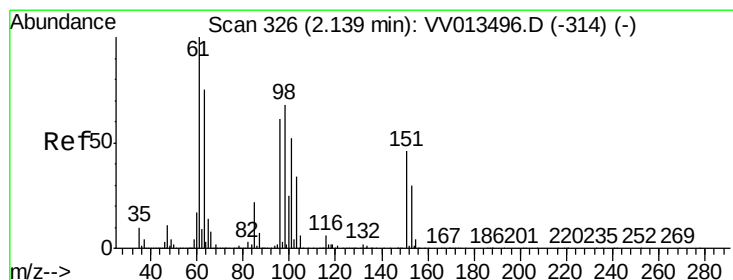
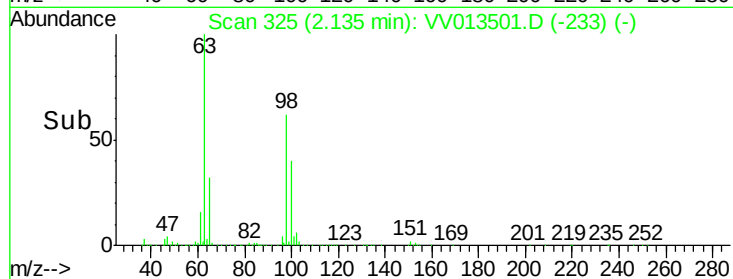
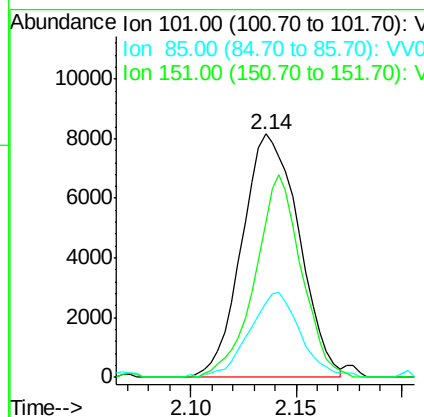
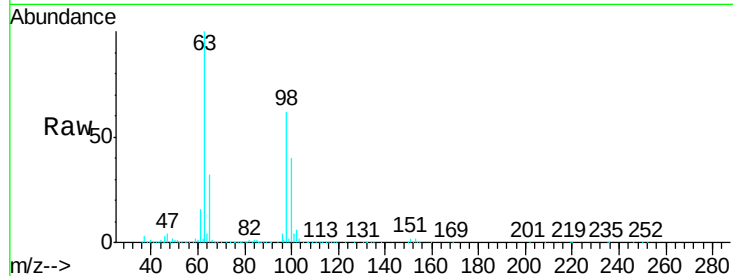
ClientSampled :

MDL04

Tgt Ion:	101	Resp:	15313
Ion Ratio	Lower	Upper	
101	100		
85	31.2	33.3	49.9#
151	67.5	69.5	104.3#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.932 ug/L m

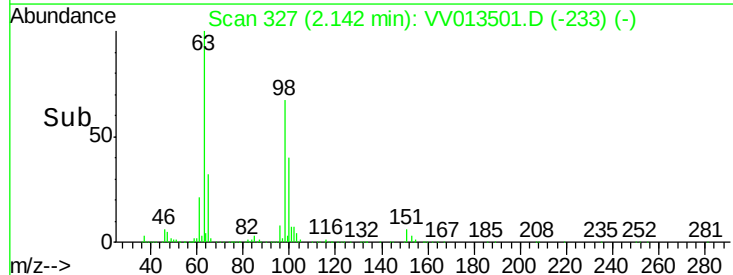
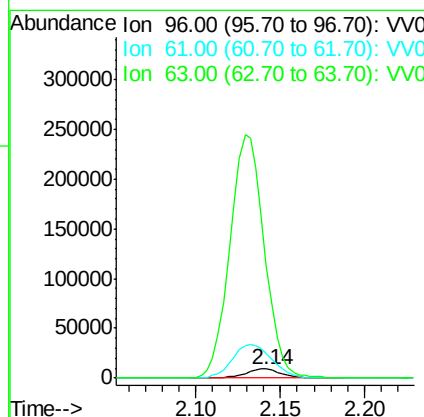
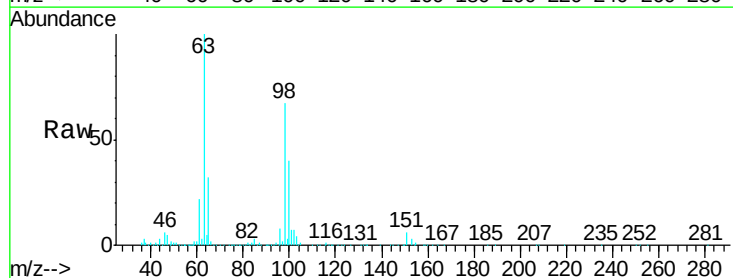
RT: 2.14 min Scan# 327

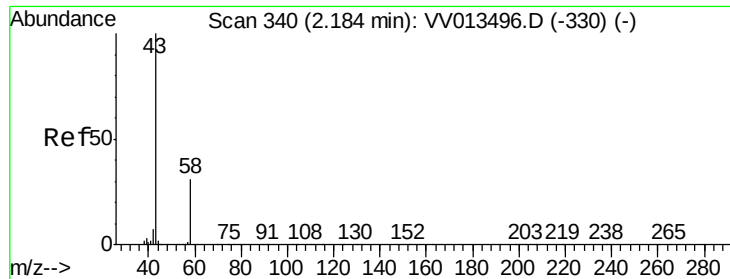
Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Tgt Ion:	96	Resp:	13907
Ion Ratio	Lower	Upper	
96	100		
61	268.1	116.9	217.1#
63	1245.9	91.5	169.9#





#13

Acetone

Concen: 4.291 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 43 Resp: 15601

Ion Ratio Lower Upper

43 100

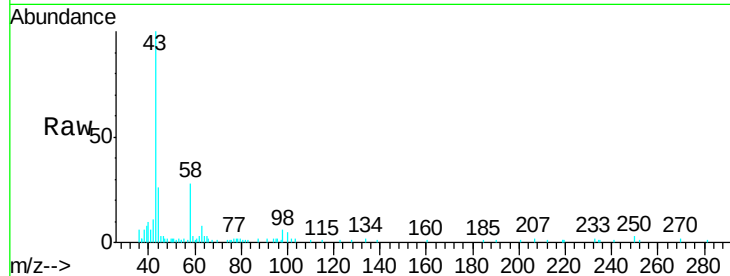
58 29.6 0.0 65.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VV013496.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV013496.D (-330) (-)

12000

10000

8000

6000

4000

2000

0

2.15

2.20

2.25

2.30

2.35

2.40

2.45

2.50

2.55

2.60

2.65

2.70

2.75

2.80

2.85

2.90

2.95

3.00

3.05

3.10

3.15

3.20

3.25

3.30

3.35

3.40

3.45

3.50

3.55

3.60

3.65

3.70

3.75

3.80

3.85

3.90

3.95

4.00

4.05

4.10

4.15

4.20

4.25

4.30

4.35

4.40

4.45

4.50

4.55

4.60

4.65

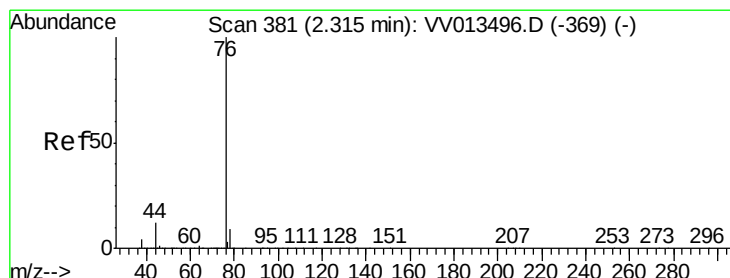
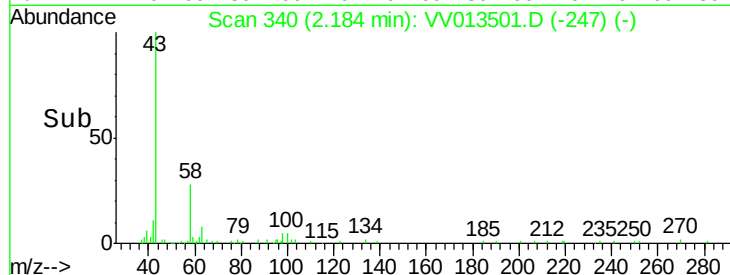
4.70

4.75

4.80

4.85

4.90



#14

Carbon disulfide

Concen: 2.332 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV013501.D

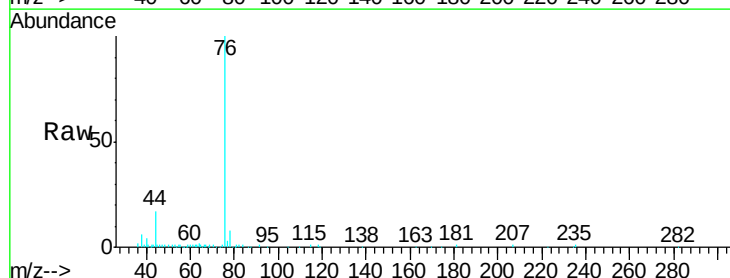
Acq: 06 Nov 2019 16:46

Tgt Ion: 76 Resp: 38713

Ion Ratio Lower Upper

76 100

78 8.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV013496.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV013496.D (-369) (-)

30000

25000

20000

15000

10000

5000

0

2.25

2.30

2.35

2.40

2.45

2.50

2.55

2.60

2.65

2.70

2.75

2.80

2.85

2.90

2.95

3.00

3.05

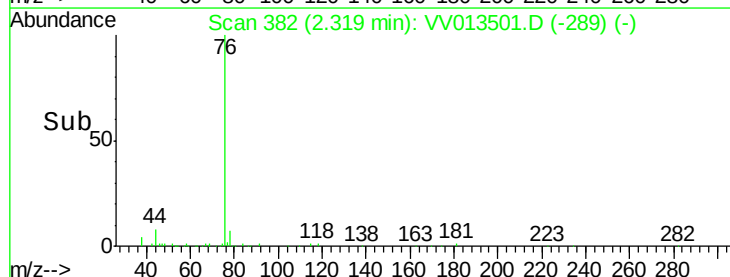
3.10

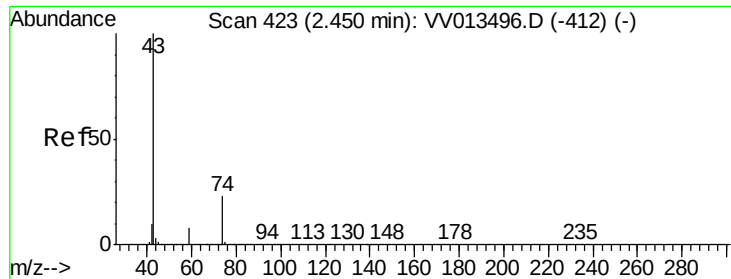
3.15

3.20

3.25

3.30





#15

Methyl Acetate

Concen: 1.980 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.01 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

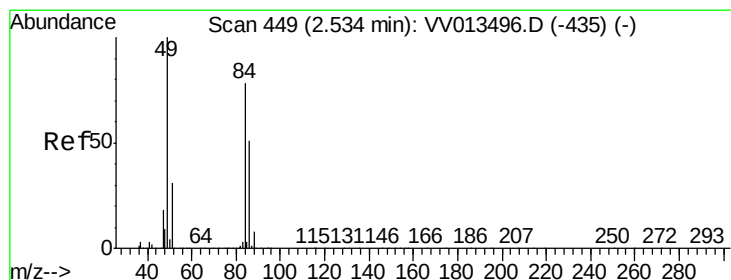
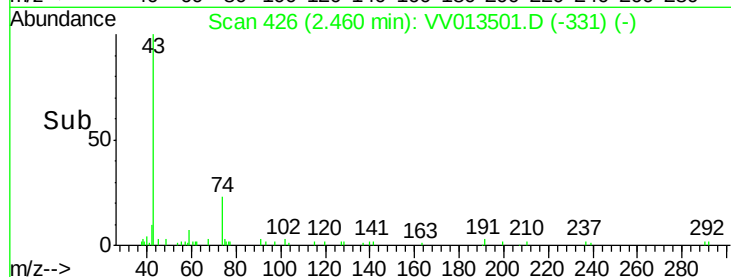
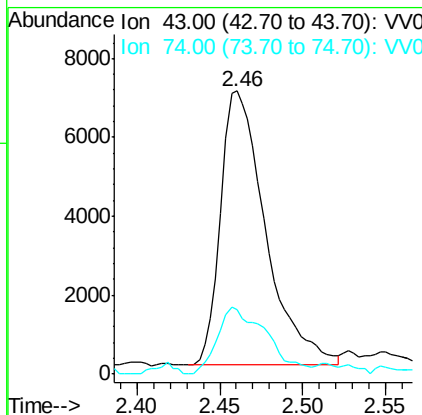
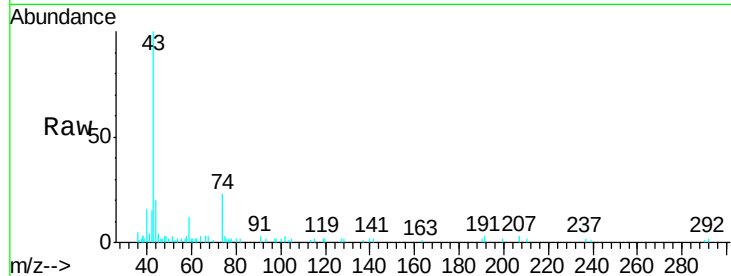
ClientSampleId :

MDL04

Tgt Ion: 43 Resp: 13134
 Ion Ratio Lower Upper
 43 100
 74 15.3 17.7 26.5#

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#16

Methylene chloride

Concen: 2.456 ug/L

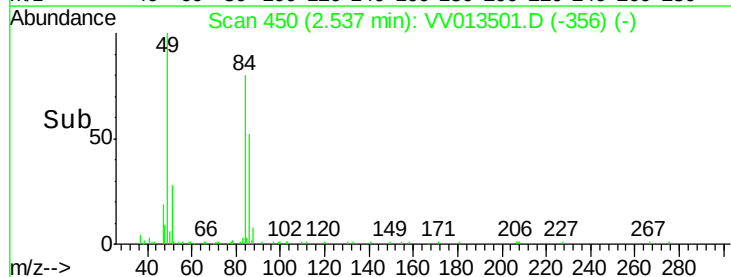
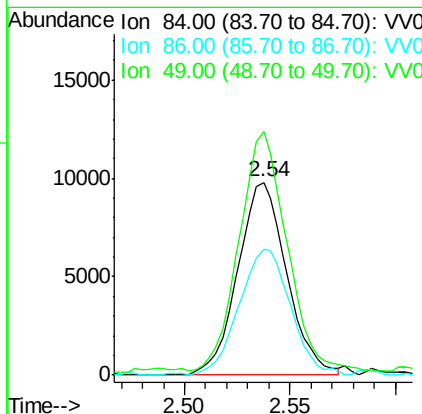
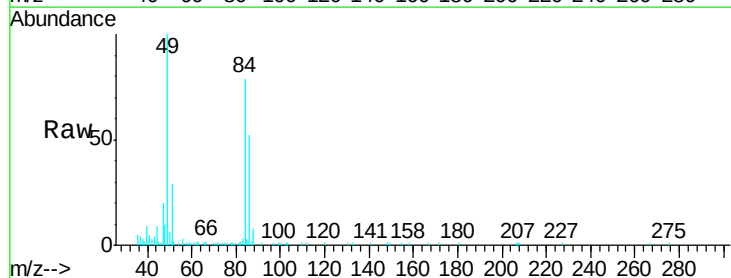
RT: 2.54 min Scan# 450

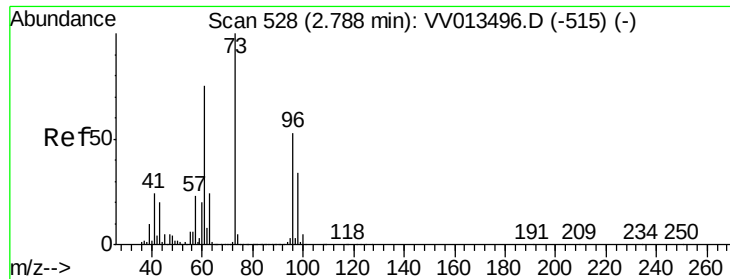
Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Tgt Ion: 84 Resp: 15767
 Ion Ratio Lower Upper
 84 100
 86 65.2 44.7 83.1
 49 126.3 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.213 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

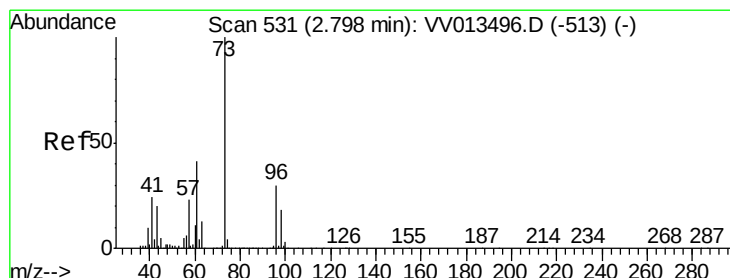
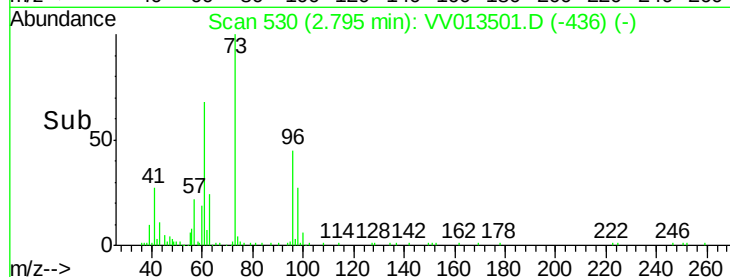
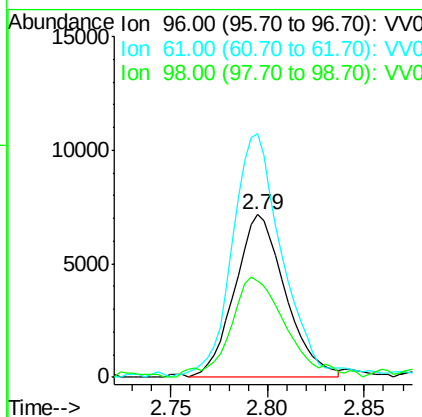
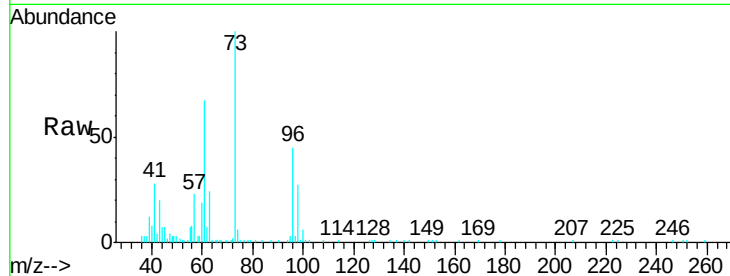
ClientSampled :

MDL04

Tgt Ion:	96	Resp:	13071
Ion	Ratio	Lower	Upper
96	100		
61	149.8	100.4	186.6
98	59.6	44.7	83.1

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#18

Methyl tert-butyl Ether

Concen: 2.043 ug/L

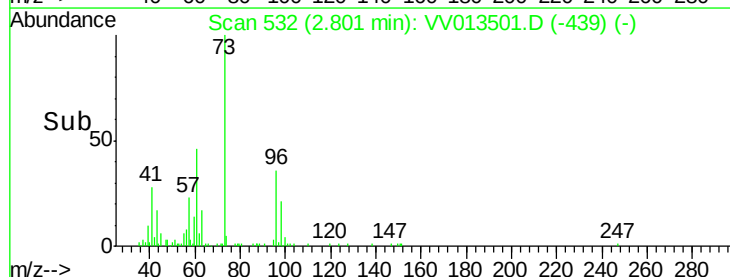
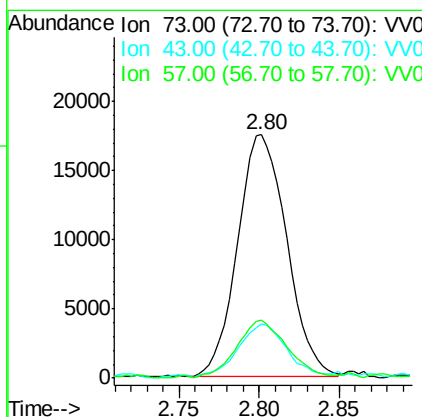
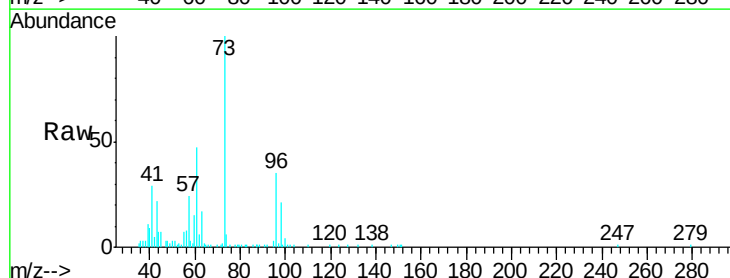
RT: 2.80 min Scan# 532

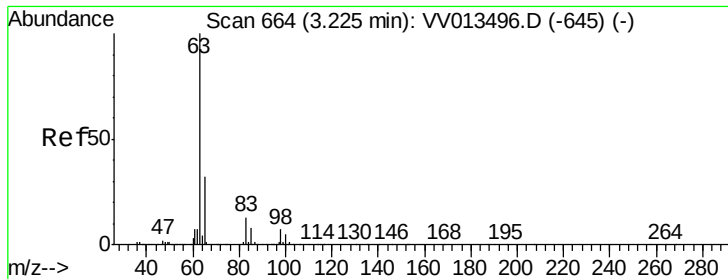
Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Tgt Ion:	73	Resp:	36799
Ion	Ratio	Lower	Upper
73	100		
43	22.3	15.7	23.5
57	24.6	18.1	27.1





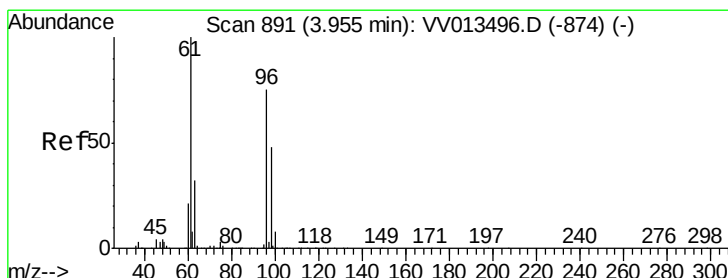
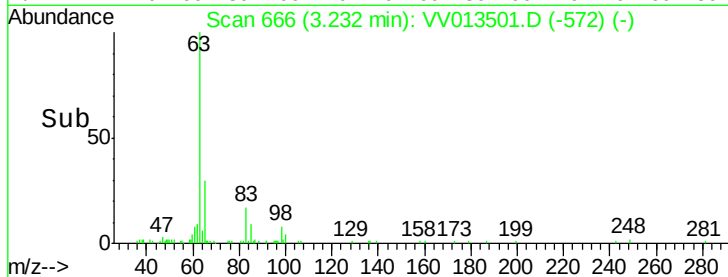
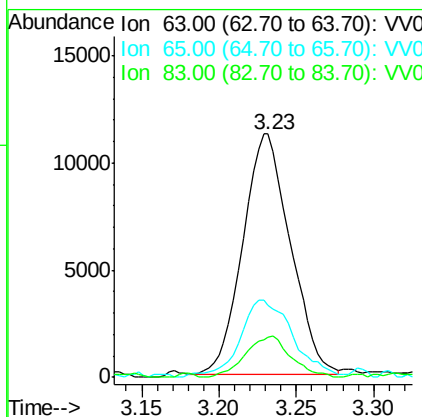
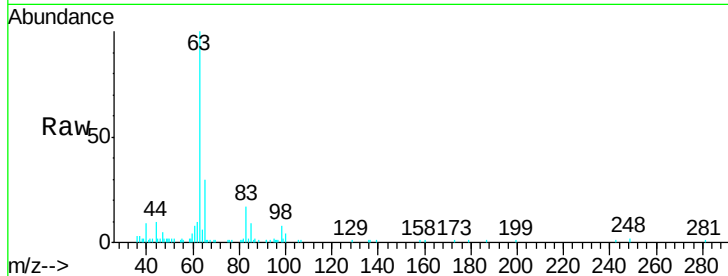
#19
 1,1-Dichloroethane
 Concen: 2.134 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tgt Ion	Ratio	Resp Lower	Resp Upper
63	100		
65	29.8	22.2	41.2
83	16.7	8.9	16.5#

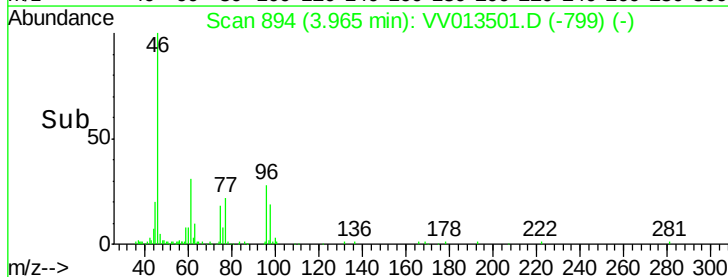
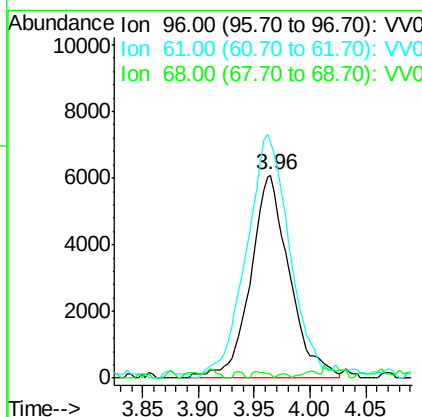
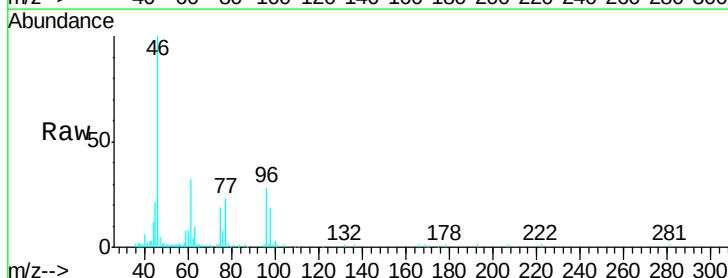
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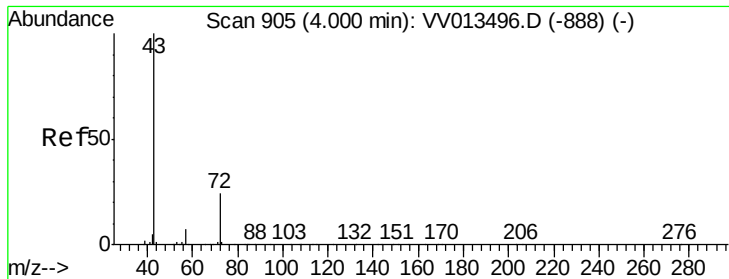
MMDadoda
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#20
 cis-1,2-Dichloroethene
 Concen: 2.290 ug/L m
 RT: 3.96 min Scan# 894
 Delta R.T. 0.01 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

Tgt Ion	Ratio	Resp Lower	Resp Upper
96	100		
61	116.3	92.1	171.1
68	2.0	0.0	0.0#





#22

2-Butanone

Concen: 3.300 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.02 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 43 Resp: 15894

Ion Ratio Lower Upper

43 100

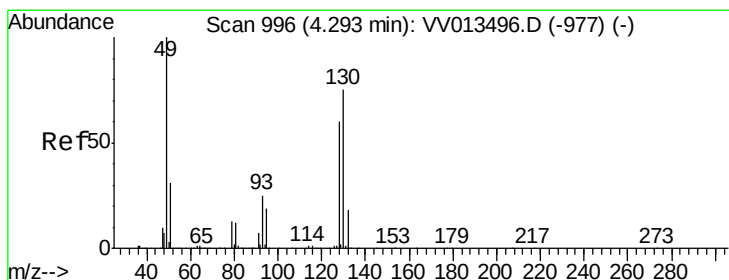
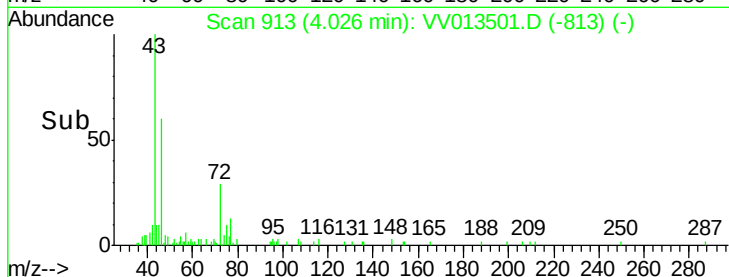
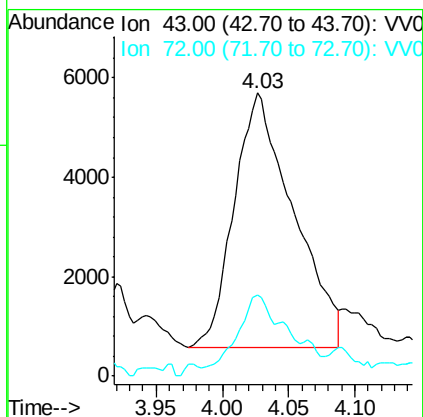
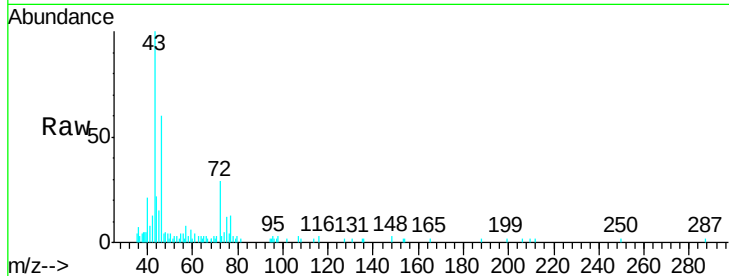
72 14.8 12.3 36.9

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#23

Bromochloromethane

Concen: 2.401 ug/L m

RT: 4.29 min Scan# 996

Delta R.T. -0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Tgt Ion: 128 Resp: 8185

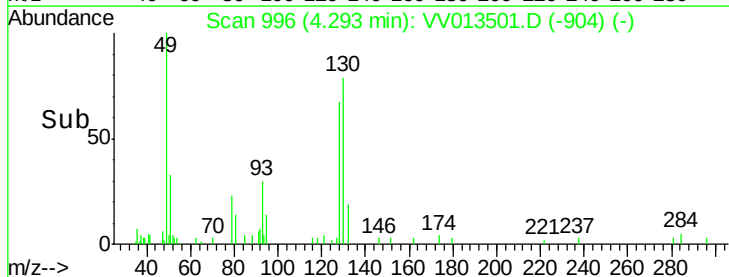
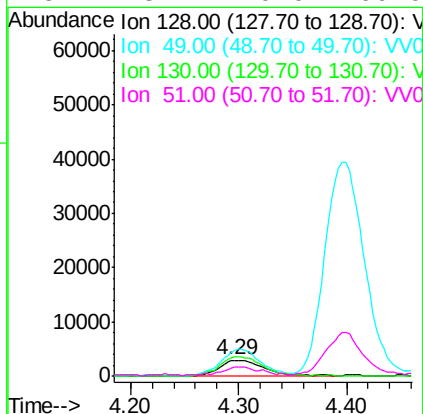
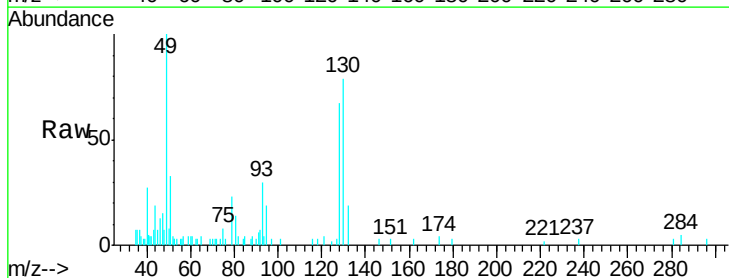
Ion Ratio Lower Upper

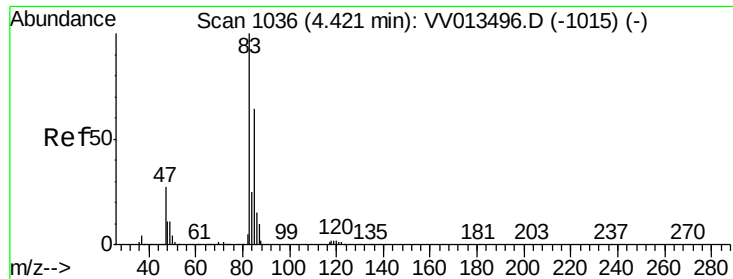
128 100

49 148.3 115.8 215.2

130 117.1 89.1 165.5

51 48.4 40.0 60.0





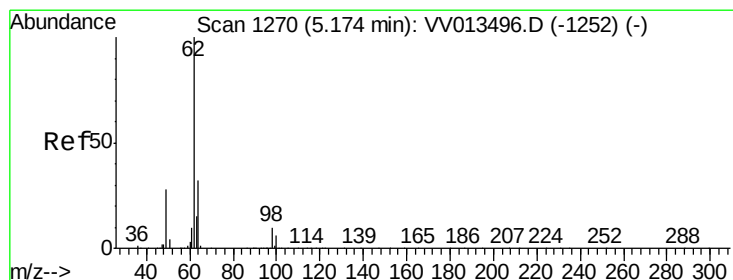
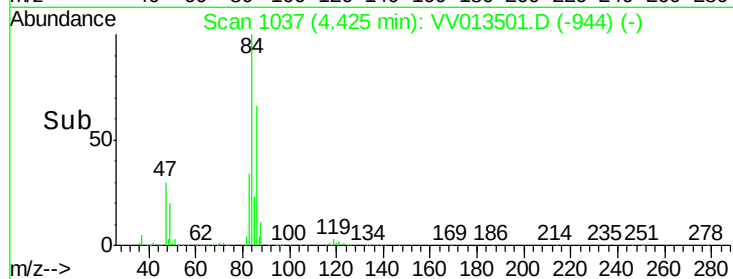
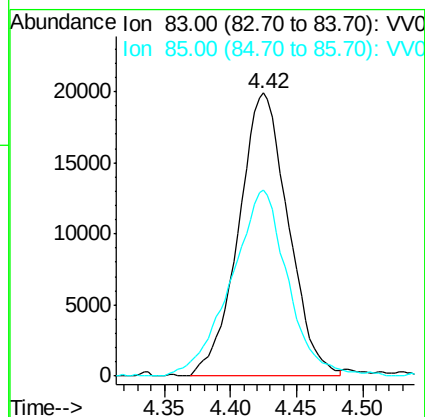
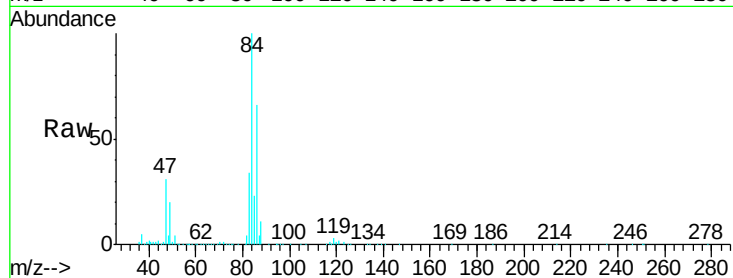
#25
Chloroform
Concen: 4.486 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	51985		
85	65.7		44.4	82.5

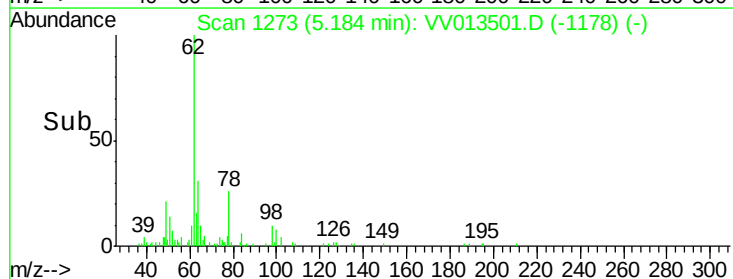
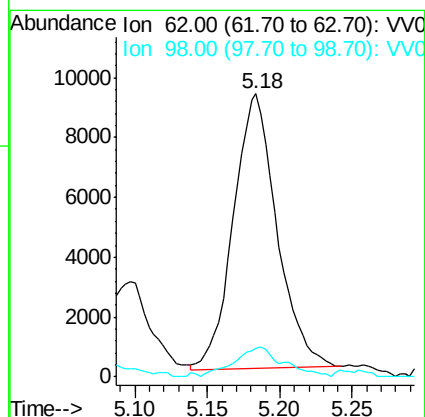
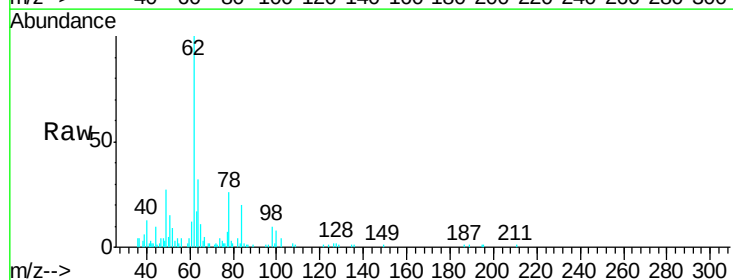
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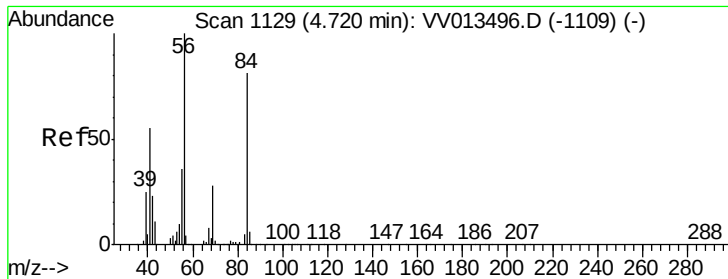
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#27
1,2-Dichloroethane
Concen: 2.163 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	19210		
98	10.0		8.2	12.4





#29

Cyclohexane

Concen: 1.988 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

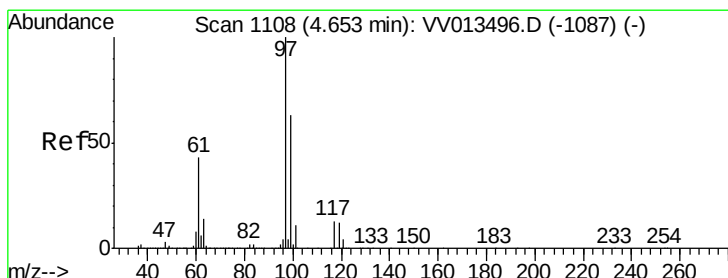
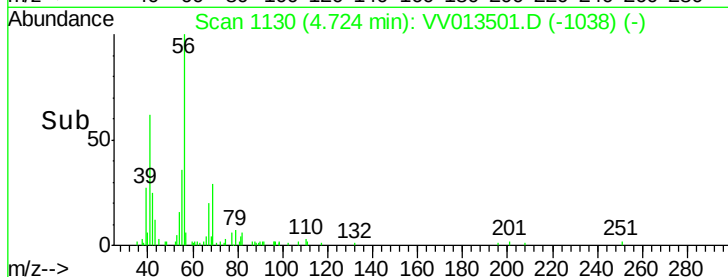
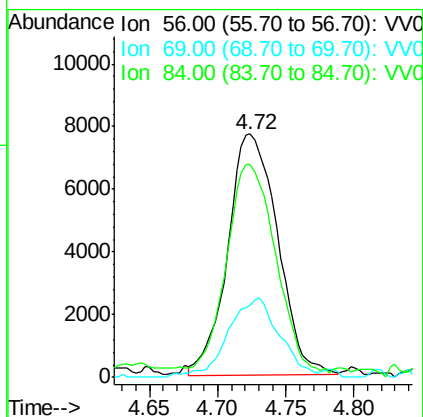
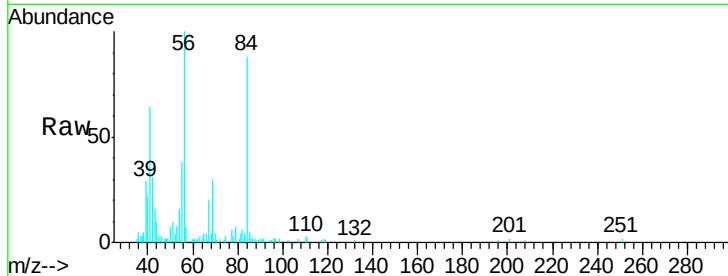
ClientSampleId :

MDL04

Tgt Ion:	56	Resp:	19462
Ion Ratio	Lower	Upper	
56	100		
69	33.7	23.7	35.5
84	85.2	66.3	99.5

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#30

1,1,1-Trichloroethane

Concen: 2.172 ug/L

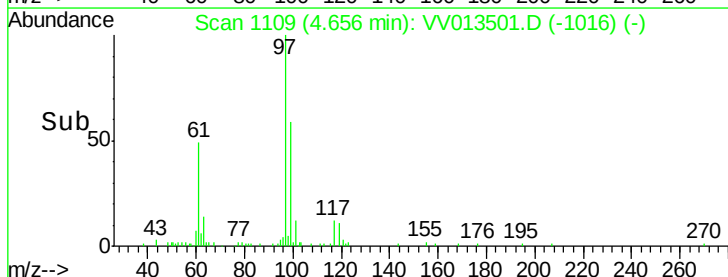
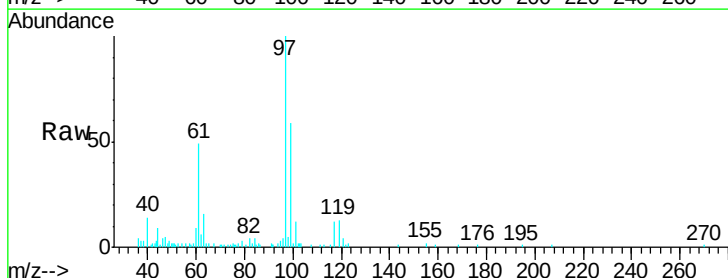
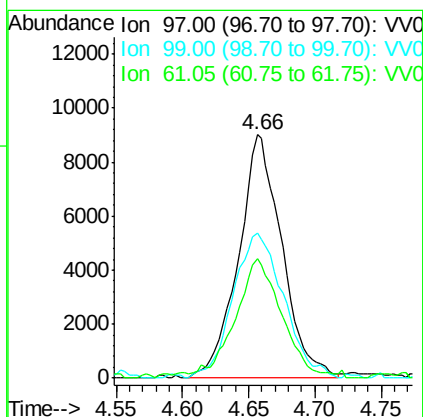
RT: 4.66 min Scan# 1109

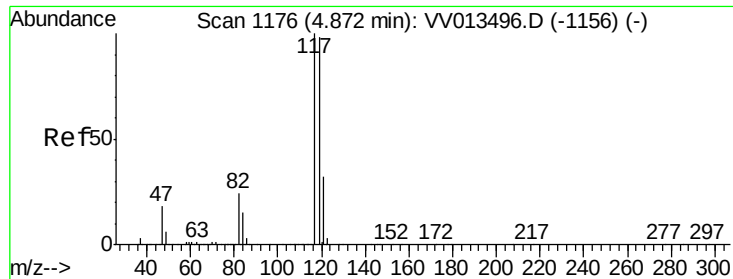
Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Tgt Ion:	97	Resp:	20602
Ion Ratio	Lower	Upper	
97	100		
99	68.4	52.0	78.0
61	51.3	35.8	53.8





#31

Carbon tetrachloride

Concen: 2.191 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion:117 Resp: 18530

Ion Ratio Lower Upper

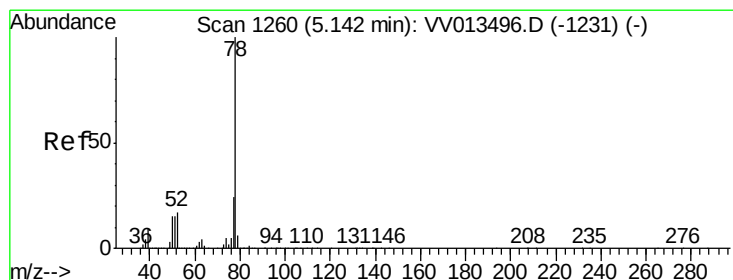
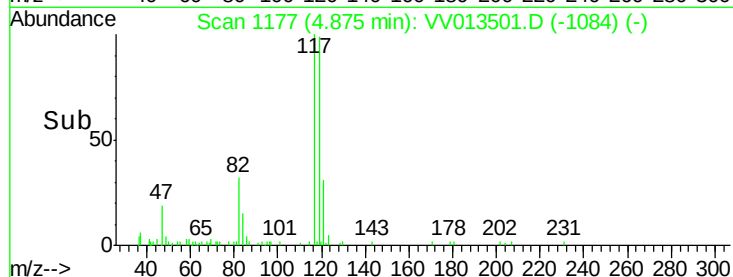
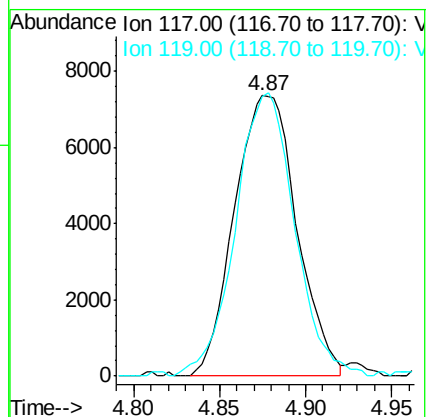
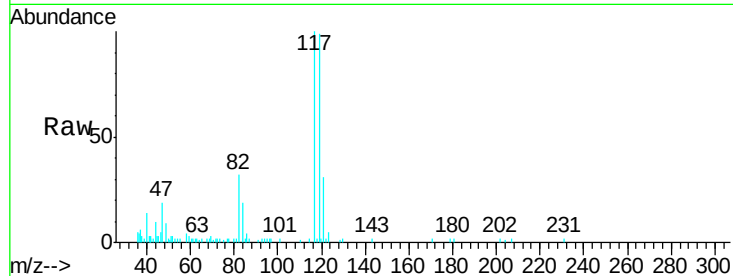
117 100

119 95.9 77.6 116.4

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#33

Benzene

Concen: 2.208 ug/L

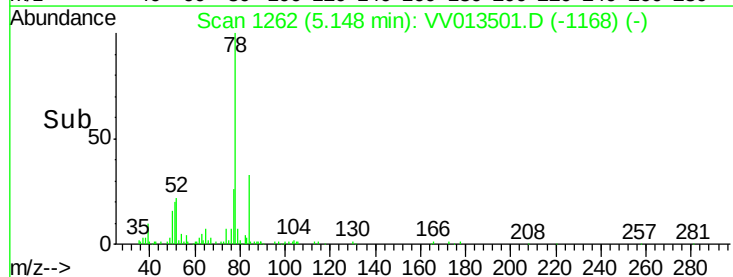
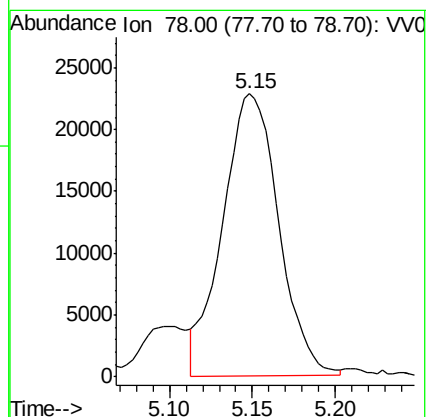
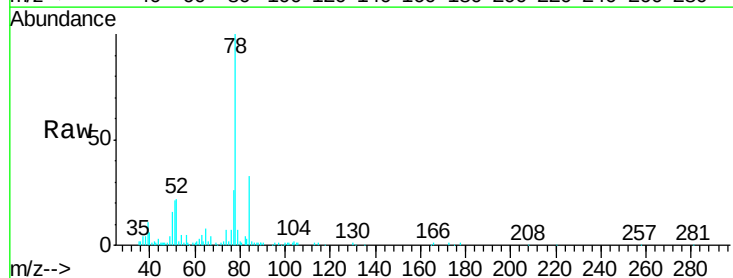
RT: 5.15 min Scan# 1262

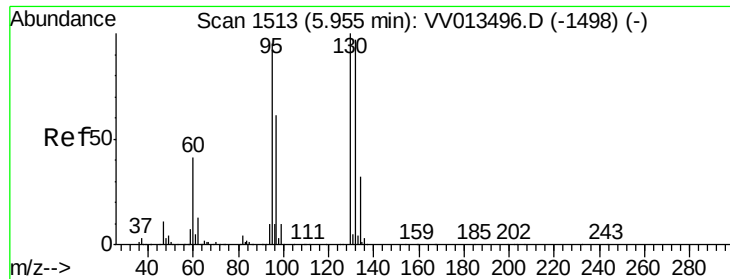
Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Tgt Ion: 78 Resp: 53433





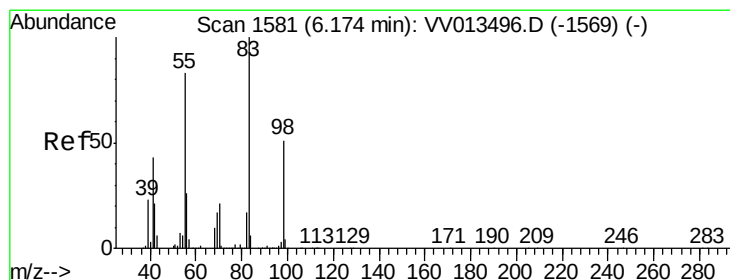
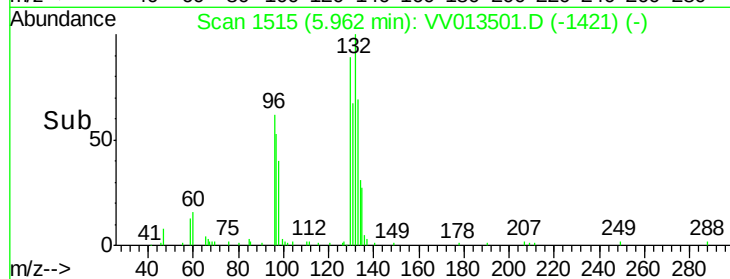
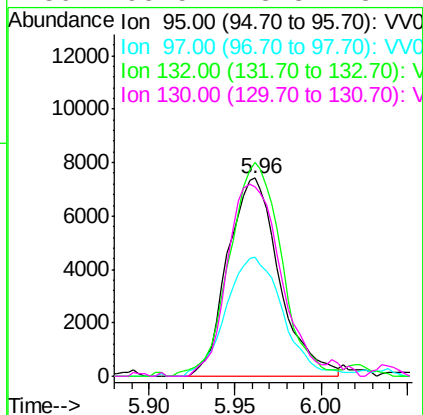
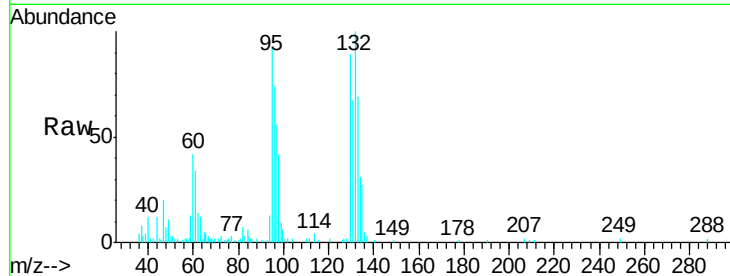
#34
 Trichloroethene
 Concen: 2.415 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
95	100		15527		
97	59.9	45.1	83.7		
132	107.7	71.7	133.1		
130	95.5	73.8	137.2		

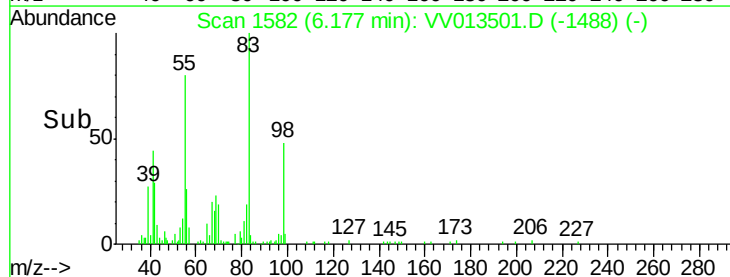
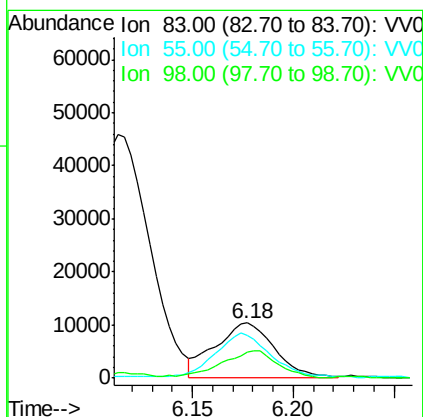
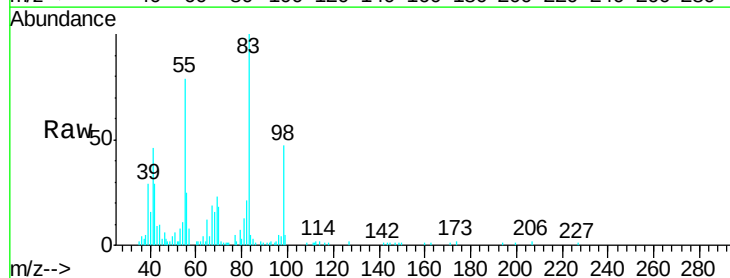
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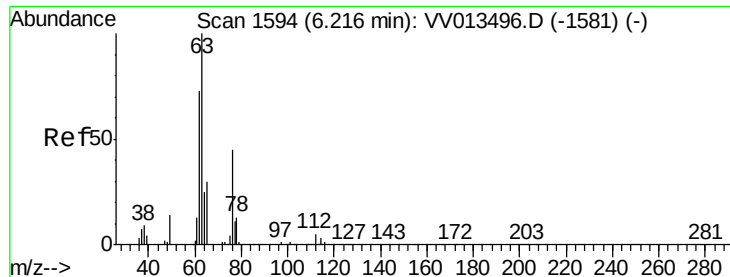
MMDadoda
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#35
 Methylcyclohexane
 Concen: 2.115 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		20966		
55	74.9	63.4	95.0		
98	48.1	38.6	58.0		





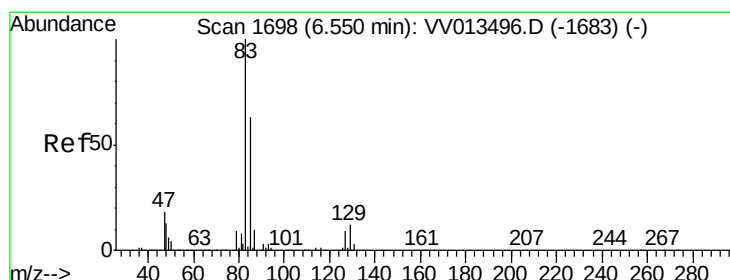
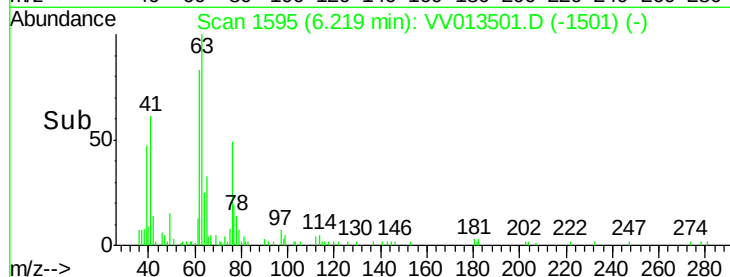
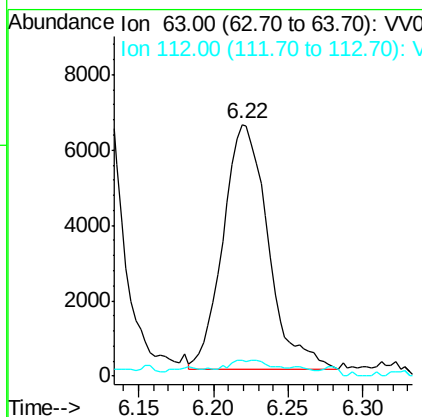
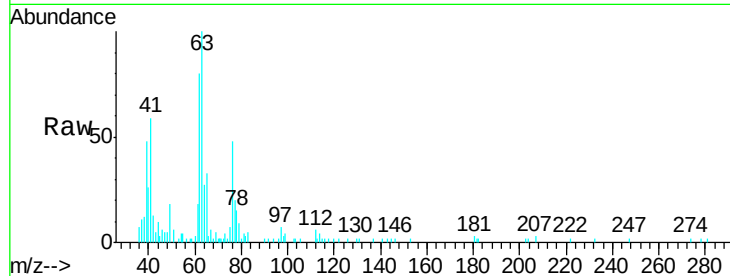
#37
 1,2-Dichloropropane
 Concen: 2.148 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tgt Ion: 63 Resp: 13680
 Ion Ratio Lower Upper
 63 100
 112 1.3 3.9 5.9#

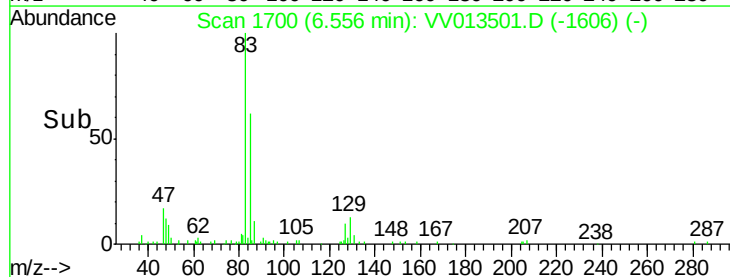
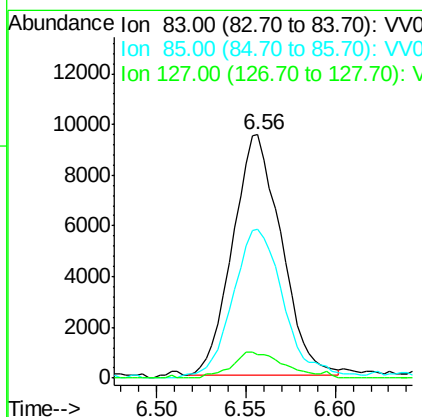
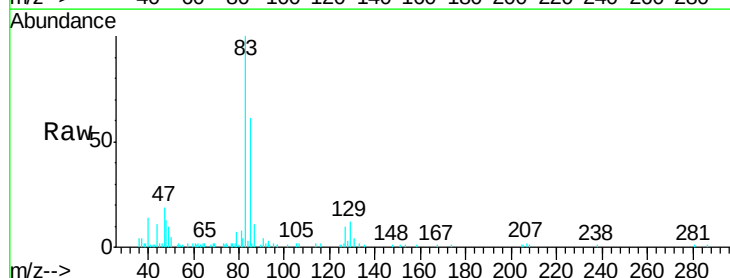
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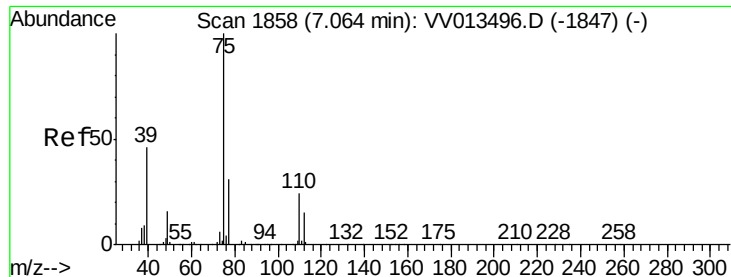
MMDadoda
 11/7/2019 10:49:46 AM



#38
 Bromodichloromethane
 Concen: 2.160 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

Tgt Ion: 83 Resp: 18090
 Ion Ratio Lower Upper
 83 100
 85 61.1 44.8 83.2
 127 9.8 7.1 10.7





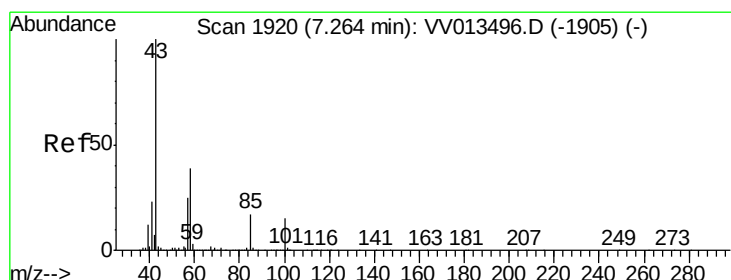
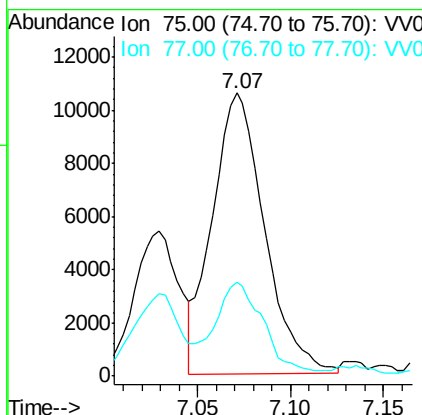
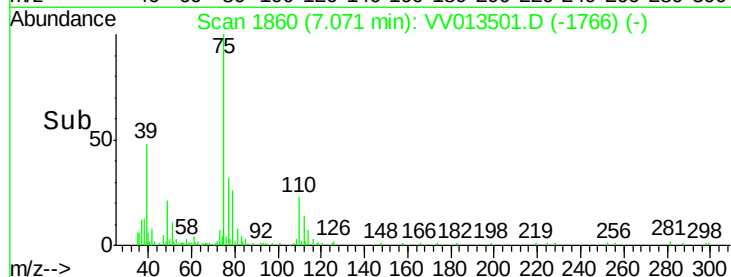
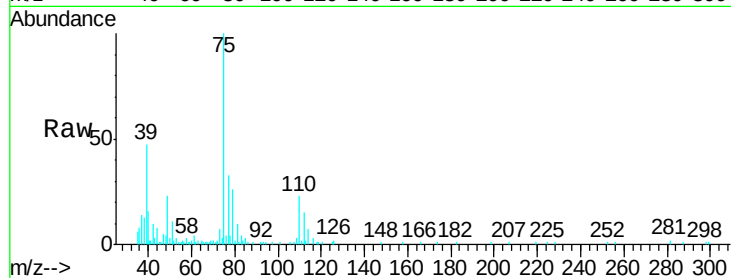
#39
 cis-1,3-Dichloropropene
 Concen: 2.131 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tgt Ion: 75 Resp: 20622
 Ion Ratio Lower Upper
 75 100
 77 33.4 22.0 40.8

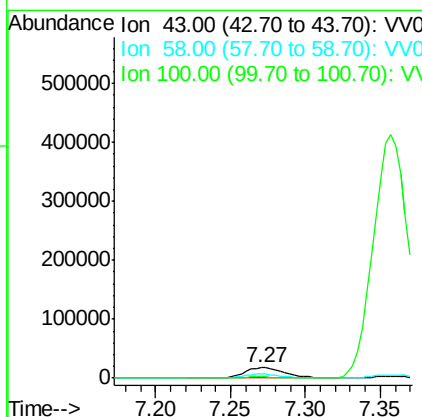
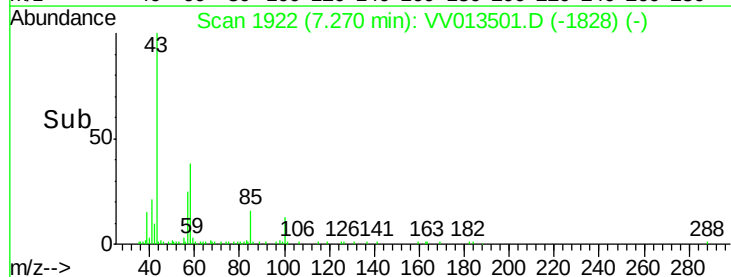
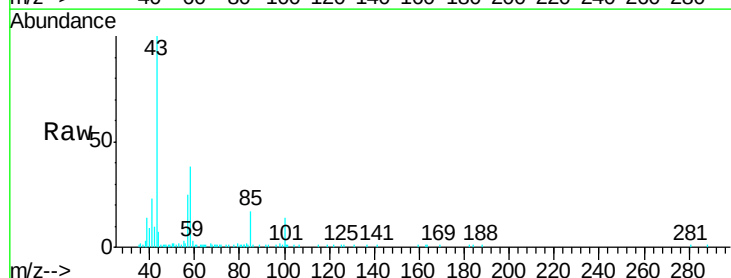
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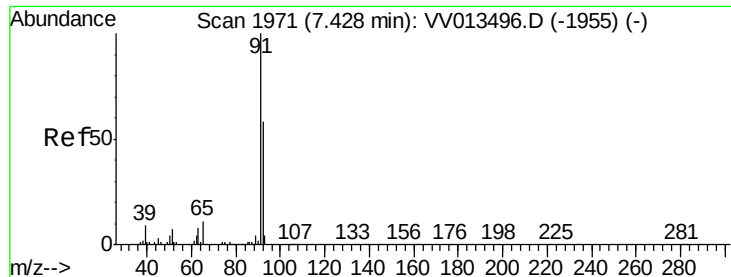
MMDadoda
 11/7/2019 10:49:46 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.033 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

Tgt Ion: 43 Resp: 33111
 Ion Ratio Lower Upper
 43 100
 58 37.4 31.0 46.4
 100 12.8 12.2 18.2





#42

Toluene

Concen: 2.271 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 91 Resp: 57266

Ion Ratio Lower Upper

91 100

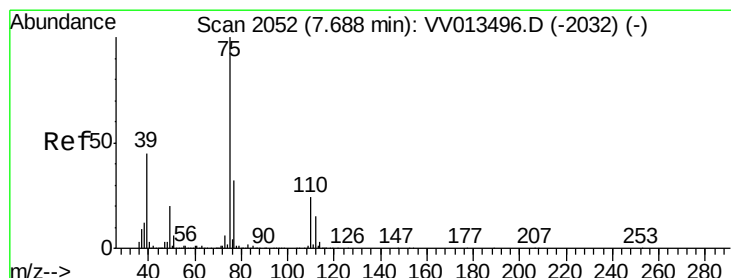
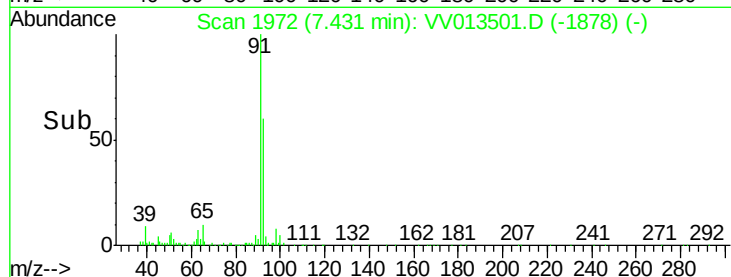
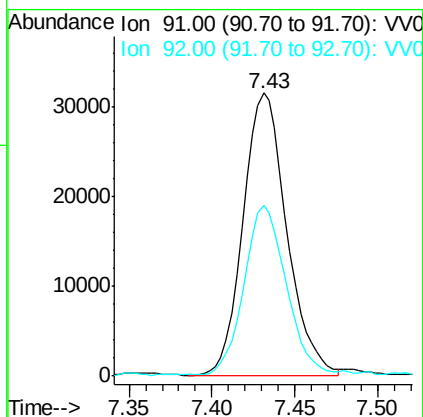
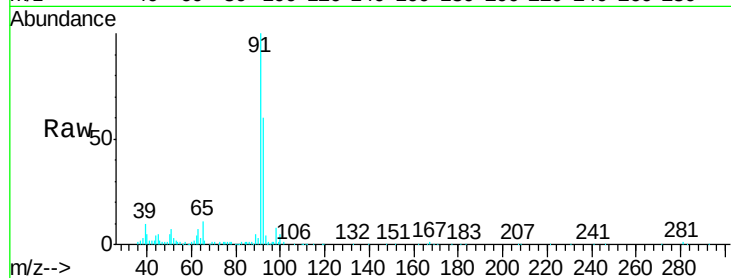
92 60.4 41.3 76.7

Manual Integrations

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MMDadoda

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#44

trans-1,3-Dichloropropene

Concen: 2.245 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV013501.D

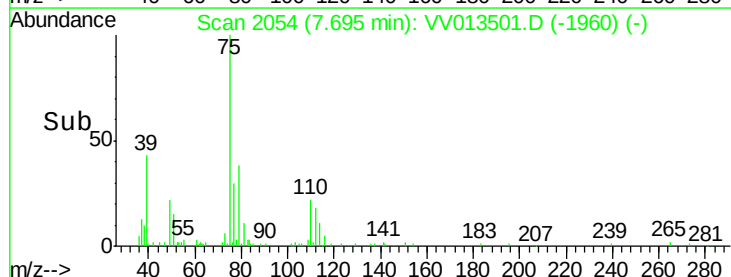
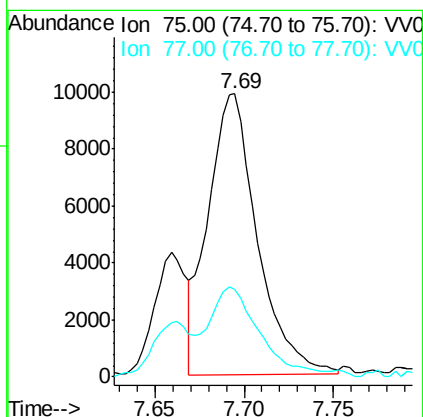
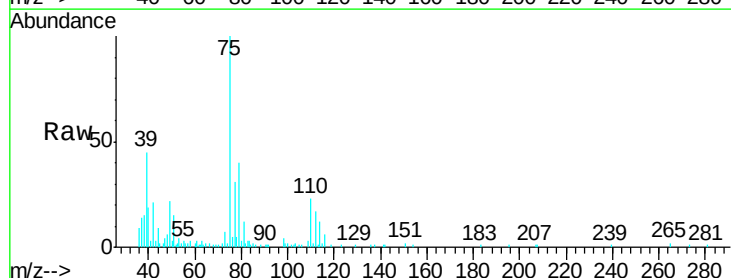
Acq: 06 Nov 2019 16:46

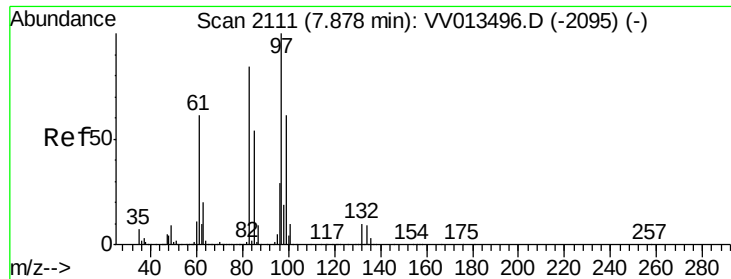
Tgt Ion: 75 Resp: 18907

Ion Ratio Lower Upper

75 100

77 31.1 22.0 41.0





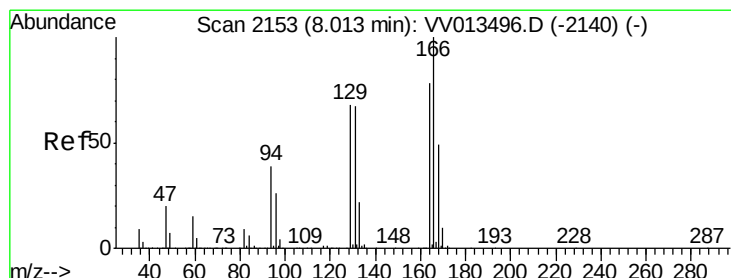
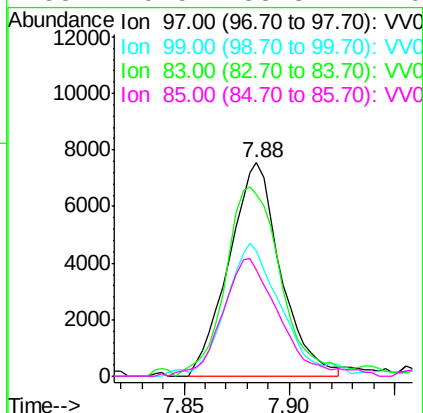
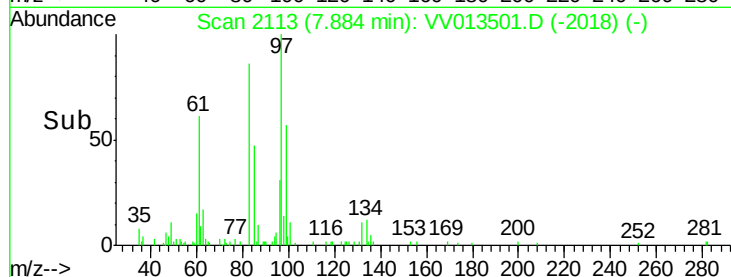
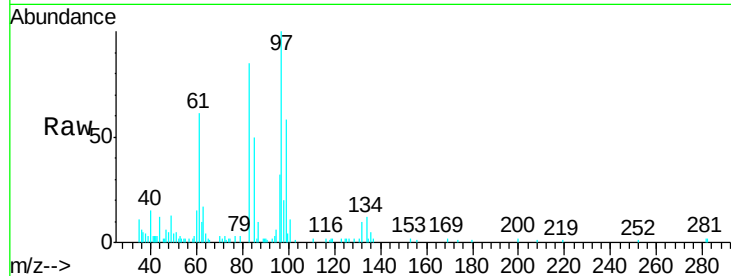
#45
1,1,2-Trichloroethane
Concen: 2.154 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. 0.01 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	58.5	43.8	81.4
83	85.3	59.1	109.9
85	49.5	38.8	72.0

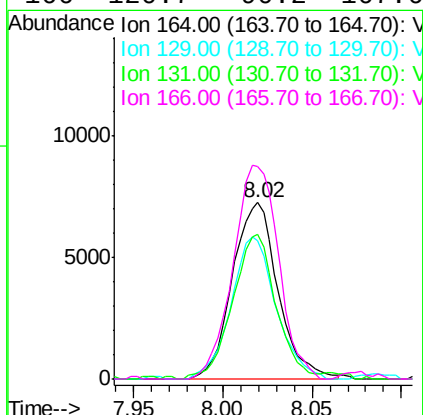
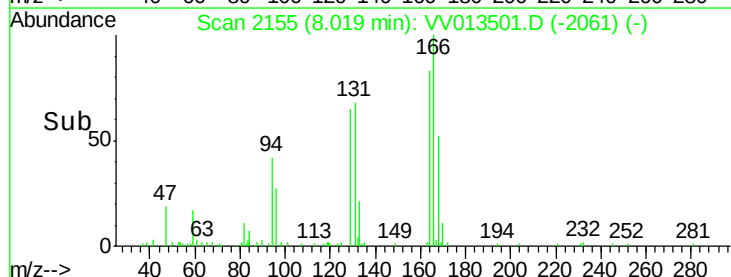
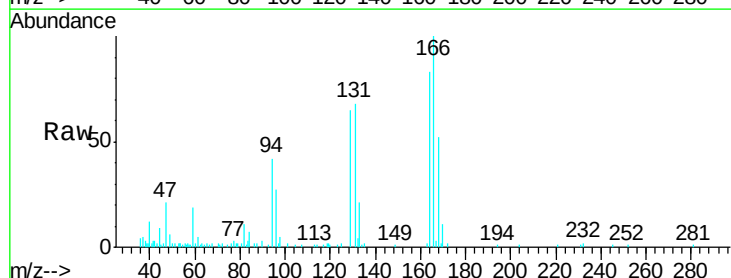
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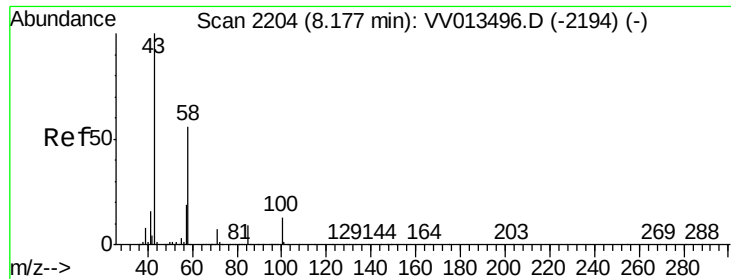
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#46
Tetrachloroethene
Concen: 2.360 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Tgt Ion	Ratio	Lower	Upper
164	100		
129	78.1	61.5	114.3
131	81.6	60.6	112.6
166	120.7	90.2	167.6





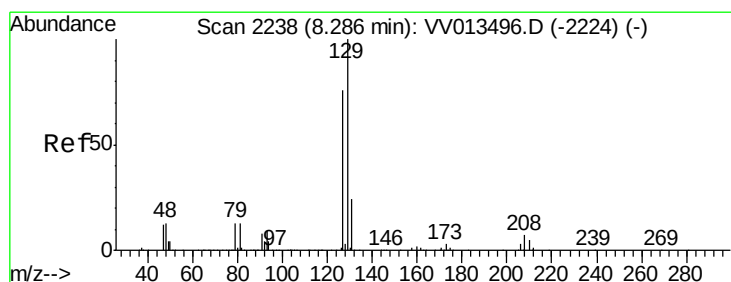
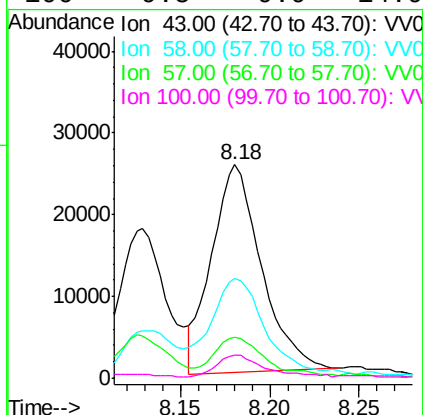
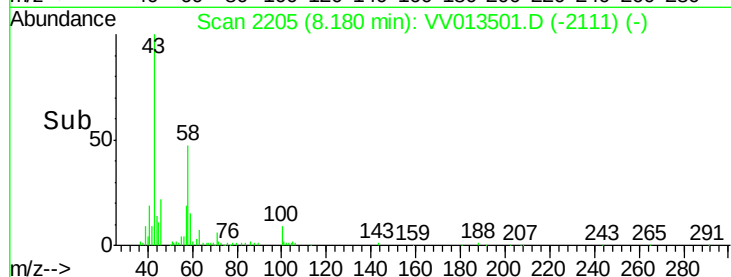
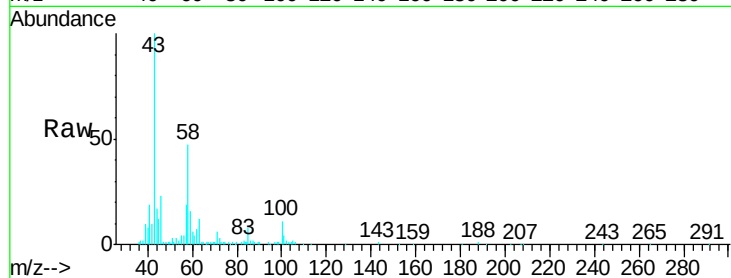
#48
2-Hexanone
Concen: 7.578 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	46.0	43.4	65.0
57	18.0	15.2	22.8
100	9.5	9.9	14.9

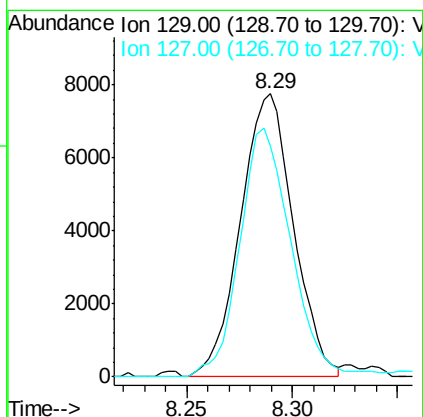
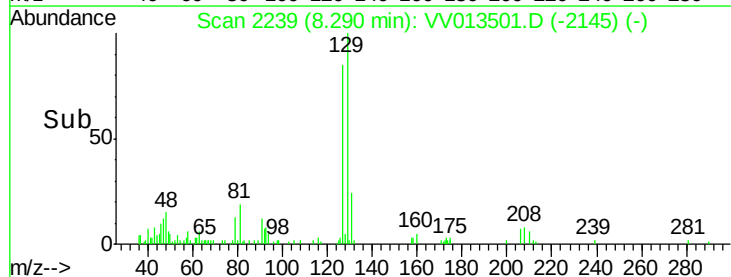
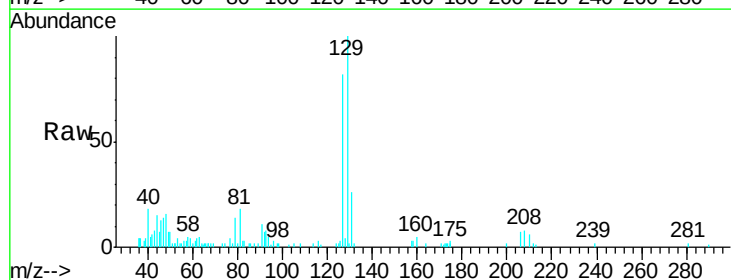
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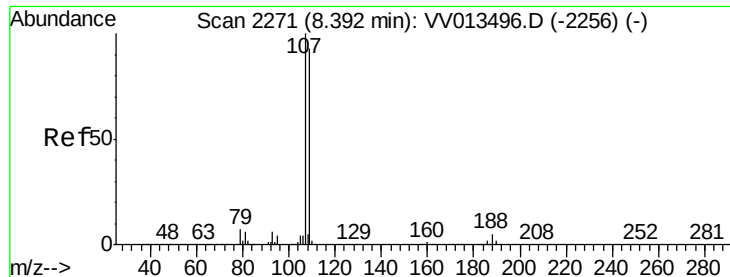
MMDadoda
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#49
Dibromochloromethane
Concen: 1.978 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.8	52.5	97.5





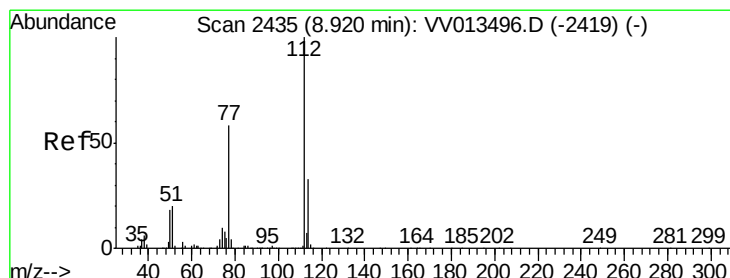
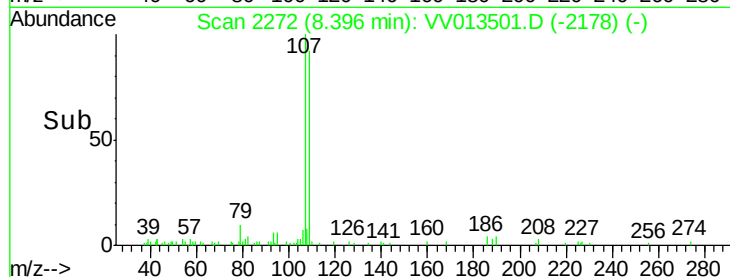
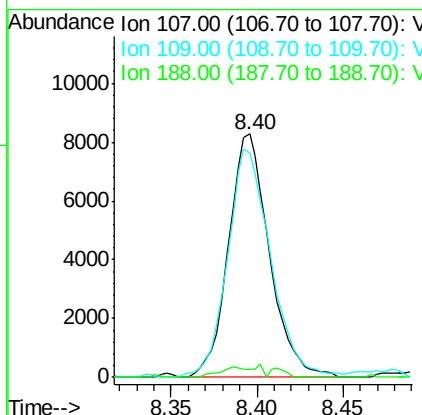
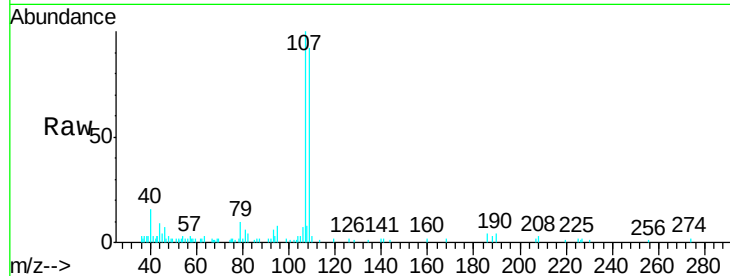
#50
1,2-Dibromoethane
Concen: 2.177 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.0	65.7	122.1
188	3.5	3.5	5.3

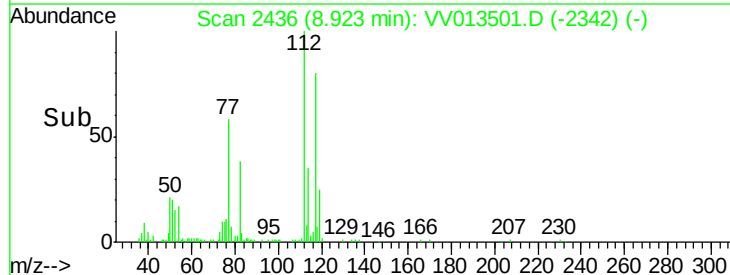
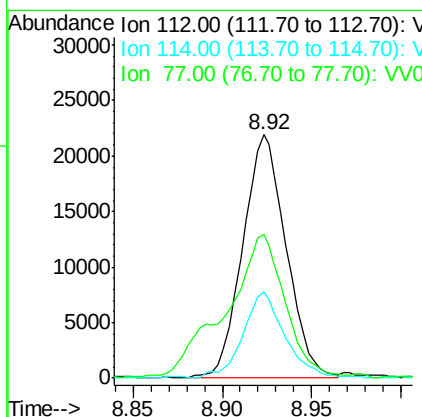
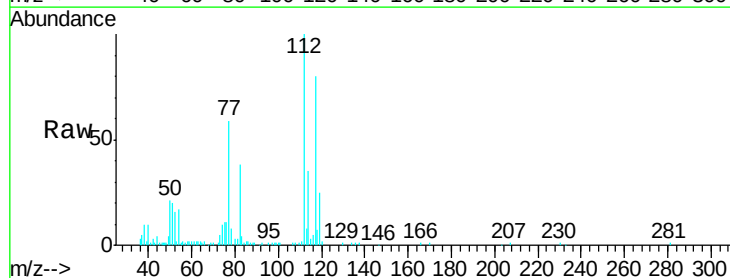
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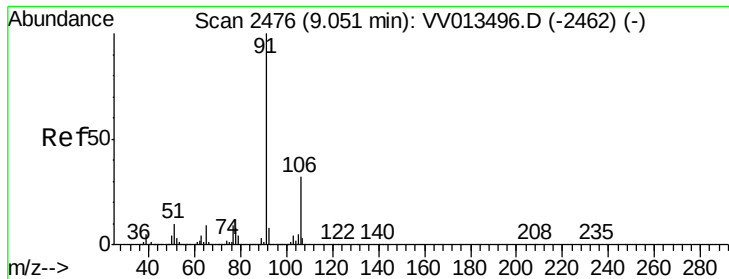
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#51
Chlorobenzene
Concen: 2.226 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Tgt Ion	Ratio	Lower	Upper
112	100		
114	35.3	22.8	42.4
77	58.9	46.7	70.1





#52

Ethylbenzene

Concen: 1.992 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion: 91 Resp: 54515

Ion Ratio Lower Upper

91 100

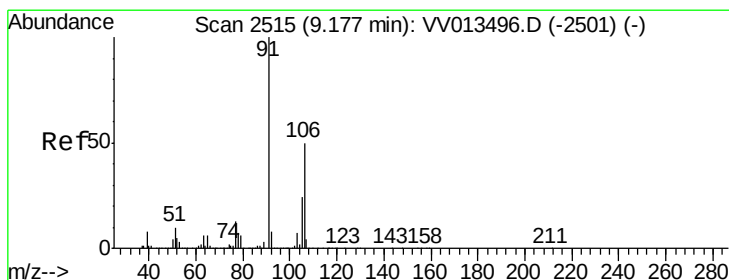
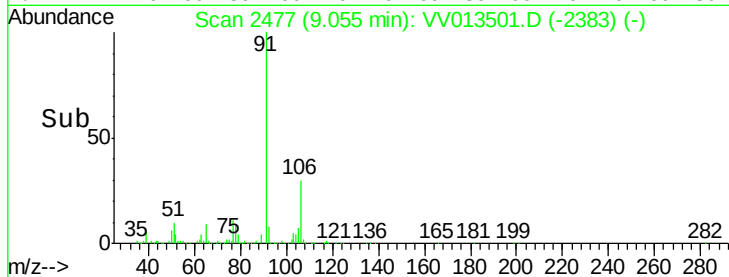
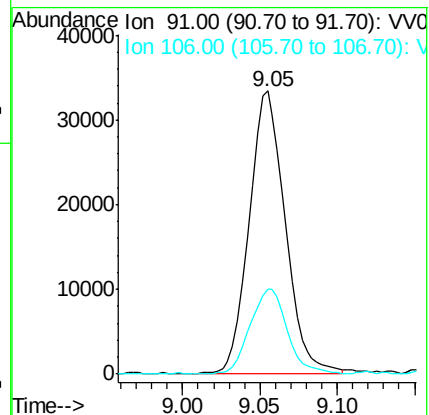
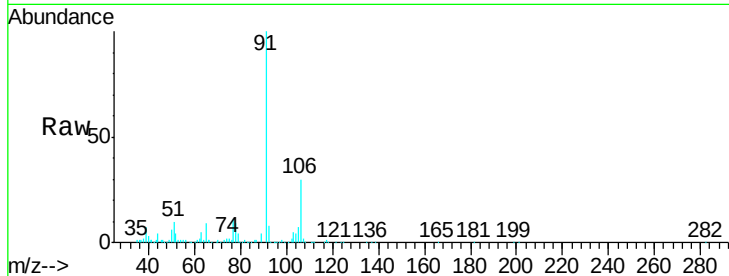
106 30.0 22.0 40.8

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#53

m,p-Xylene

Concen: 1.926 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013501.D

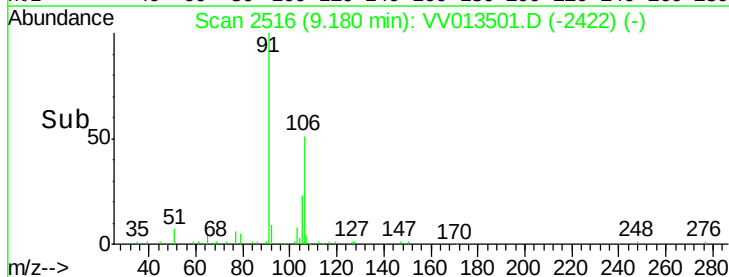
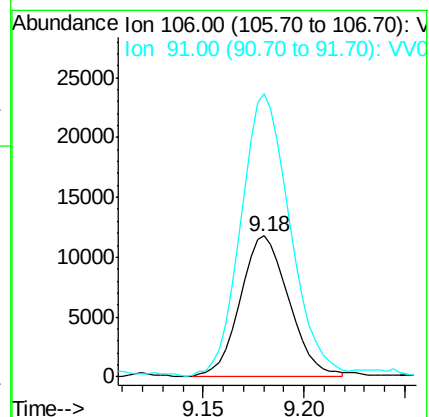
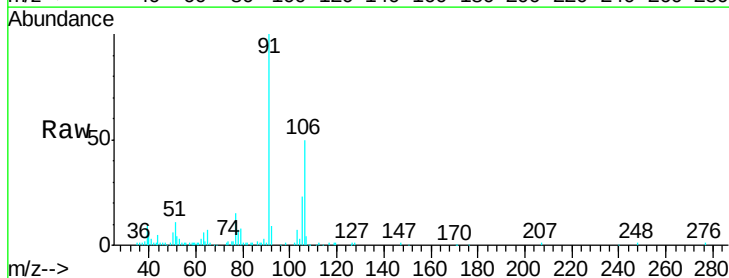
Acq: 06 Nov 2019 16:46

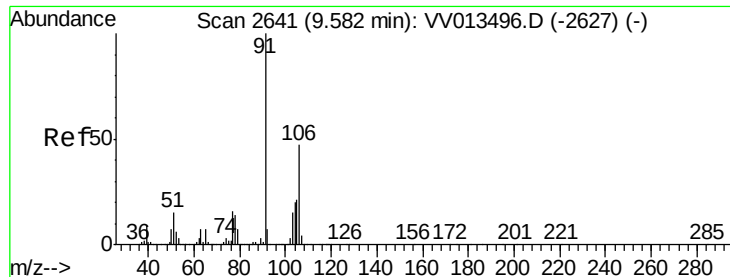
Tgt Ion: 106 Resp: 20001

Ion Ratio Lower Upper

106 100

91 200.5 141.6 263.0





#54

o-xylene

Concen: 1.954 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tgt Ion:106 Resp: 19461

Ion Ratio Lower Upper

106 100

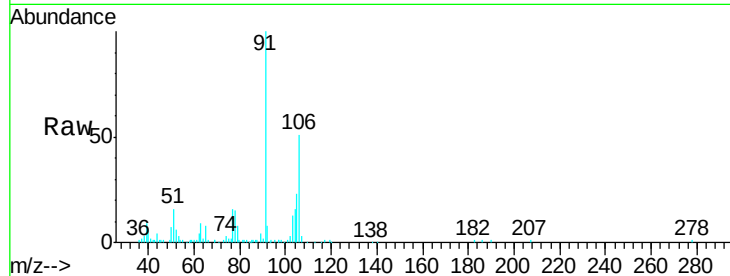
91 197.8 147.2 273.4

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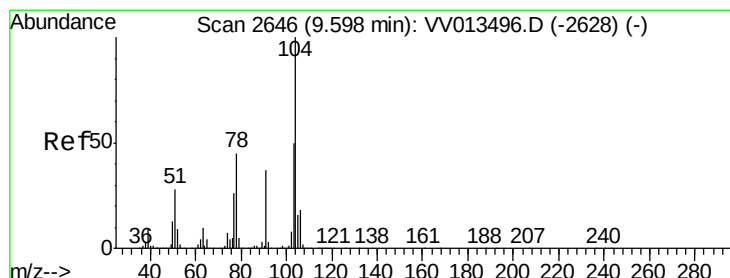
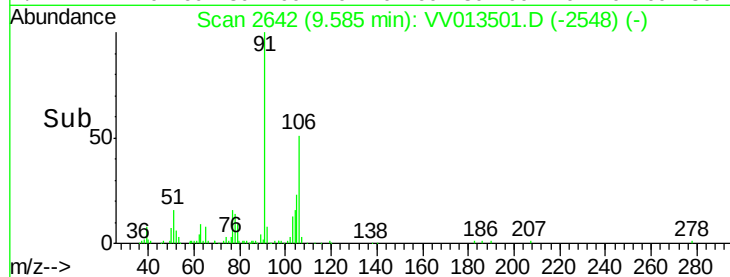
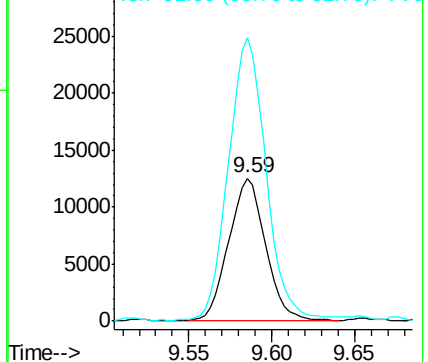
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 1.734 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.01 min

Lab File: VV013501.D

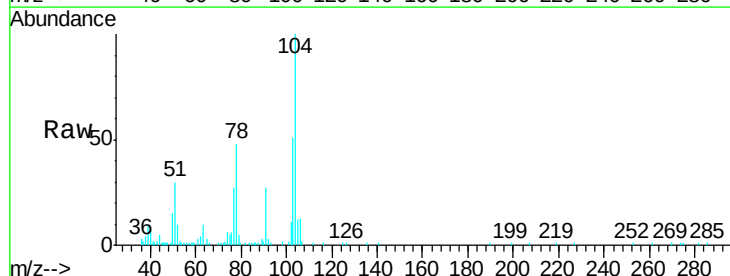
Acq: 06 Nov 2019 16:46

Tgt Ion:104 Resp: 29866

Ion Ratio Lower Upper

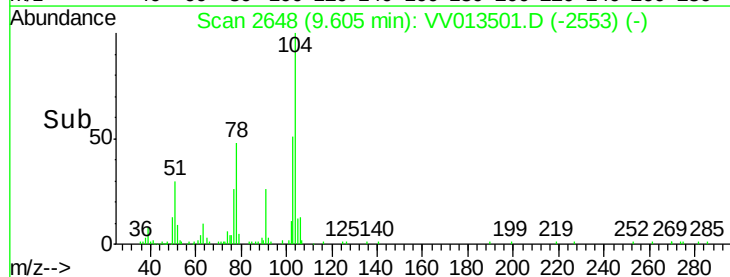
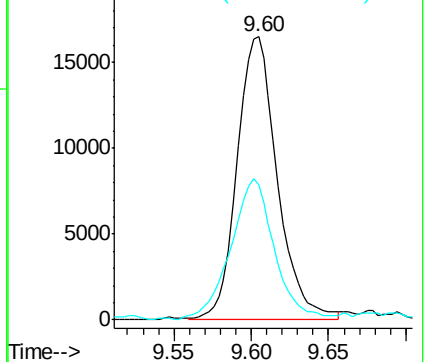
104 100

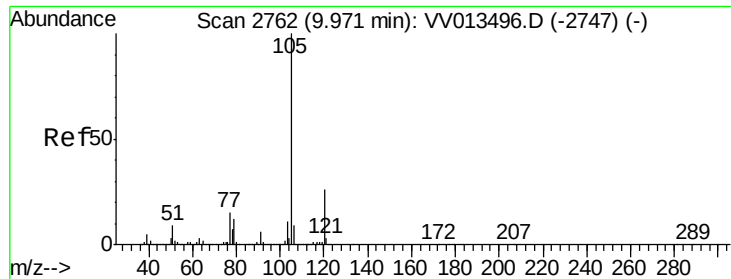
78 47.7 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





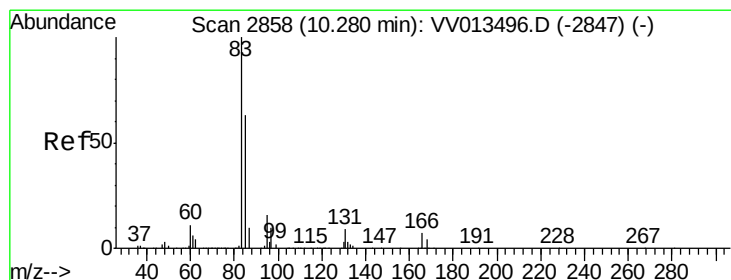
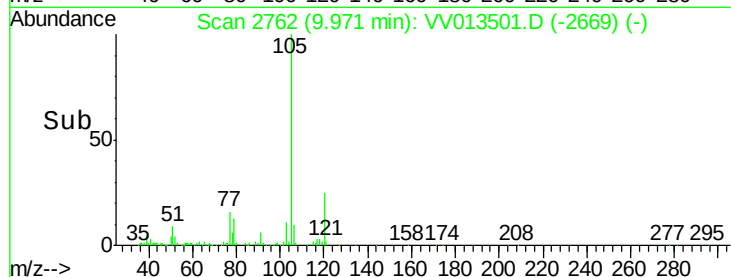
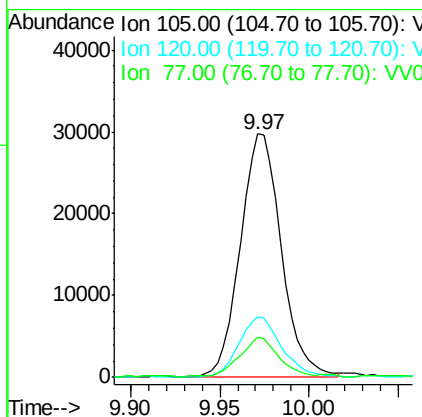
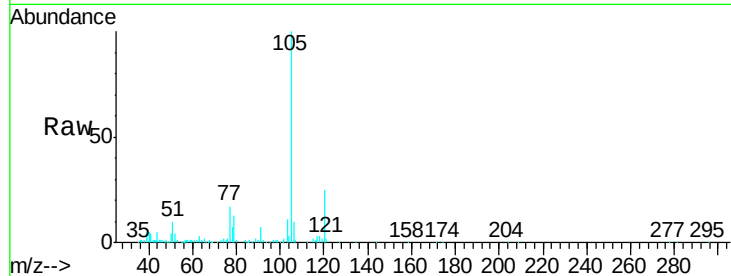
#56
Isopropylbenzene
Concen: 1.823 ug/L
RT: 9.97 min Scan# 2762
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	25.9	21.1	31.7
77	16.0	12.2	18.4

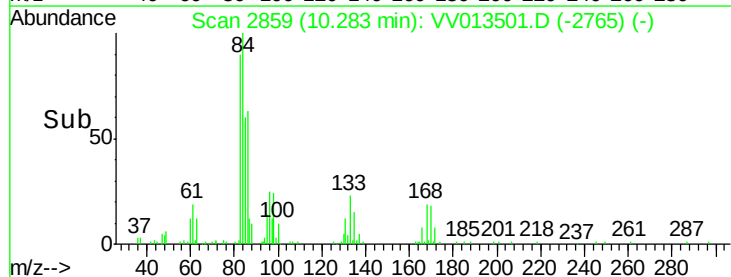
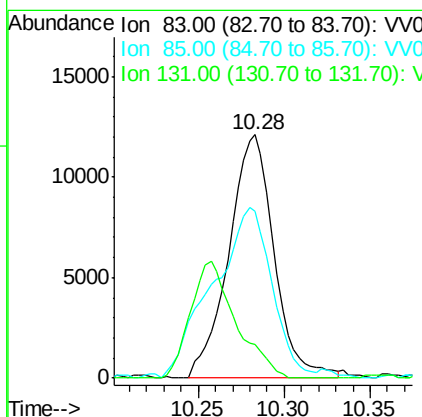
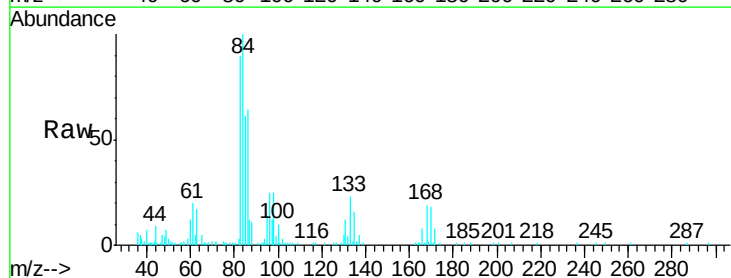
Manual Integrations
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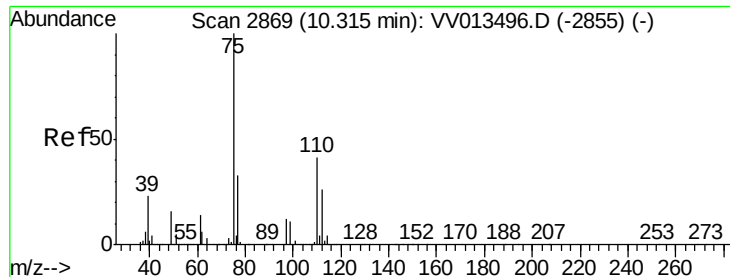
MMDadoda
11/7/2019 10:49:46 AM



#58
1,1,2,2-Tetrachloroethane
Concen: 2.473 ug/L
RT: 10.28 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Tgt Ion	Ratio	Resp Lower	Resp Upper
83	100		
85	68.3	44.0	81.6
131	13.6	7.7	11.5#





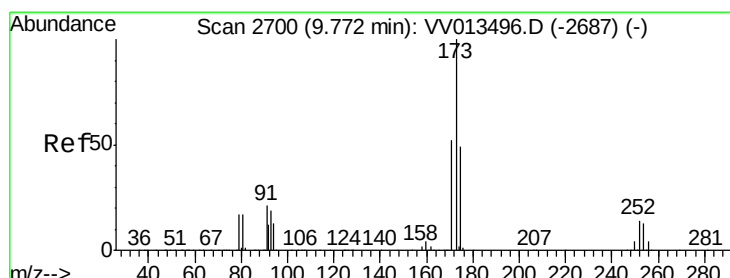
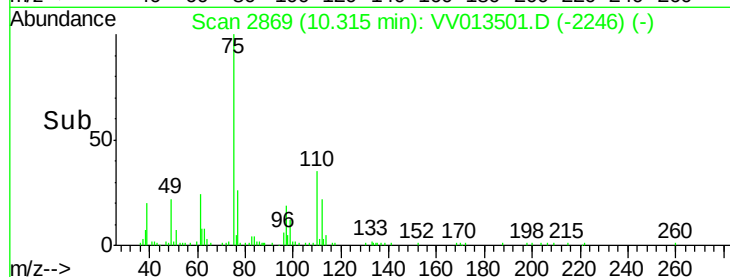
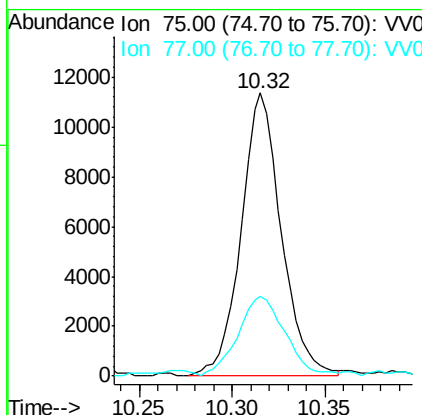
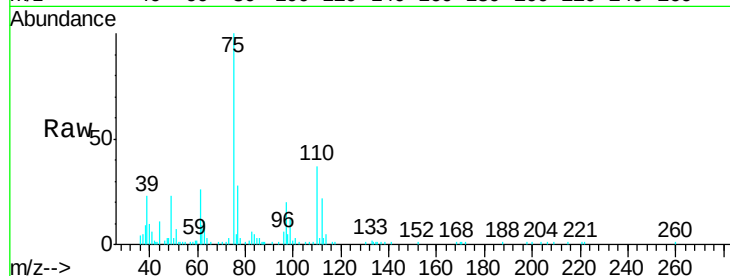
#59
1,2,3-Trichloropropane
Concen: 2.278 ug/L
RT: 10.32 min Scan# 2869
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tgt Ion: 75 Resp: 17080
Ion Ratio Lower Upper
75 100
77 33.0 25.4 38.2

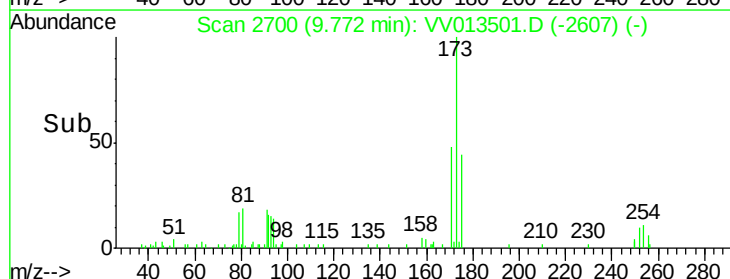
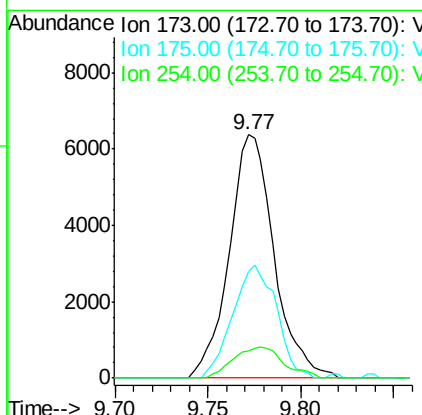
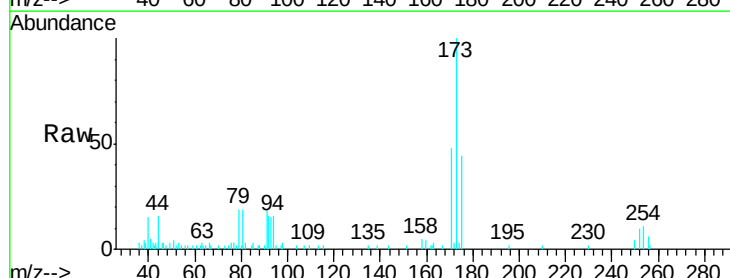
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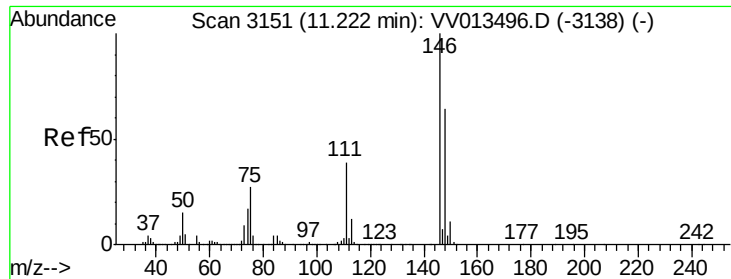
MMDadoda
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#61
Bromoform
Concen: 2.268 ug/L
RT: 9.77 min Scan# 2700
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Tgt Ion: 173 Resp: 10714
Ion Ratio Lower Upper
173 100
175 45.0 39.0 58.4
254 14.3 10.2 15.2





#62

1,3-Dichlorobenzene

Concen: 2.250 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Instrument :

MSVOA_V

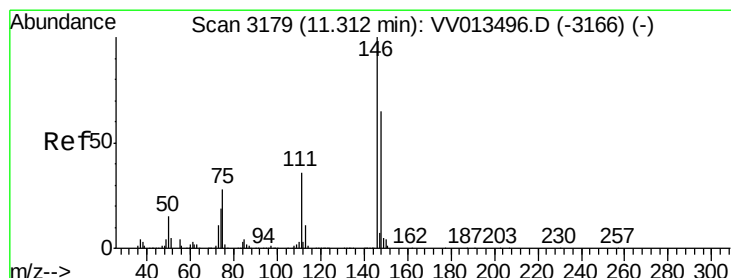
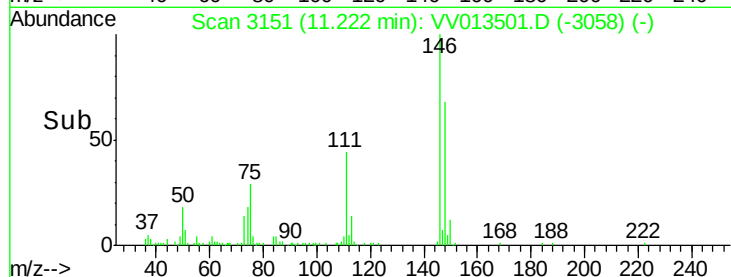
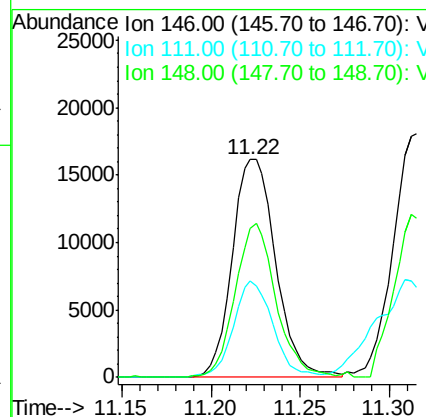
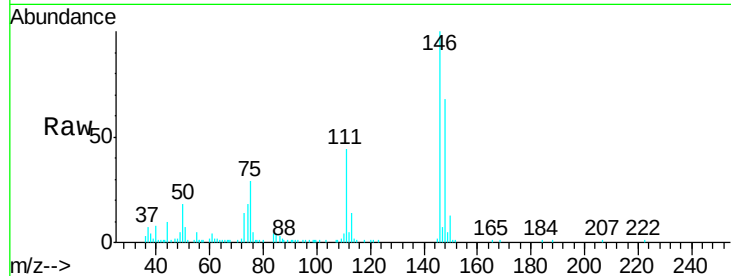
ClientSampled :

MDL04

Tgt Ion:	146	Resp:	27471
Ion Ratio	Lower	Upper	
146	100		
111	44.0	26.4	49.0
148	68.3	44.4	82.4

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#63

1,4-Dichlorobenzene

Concen: 2.427 ug/L

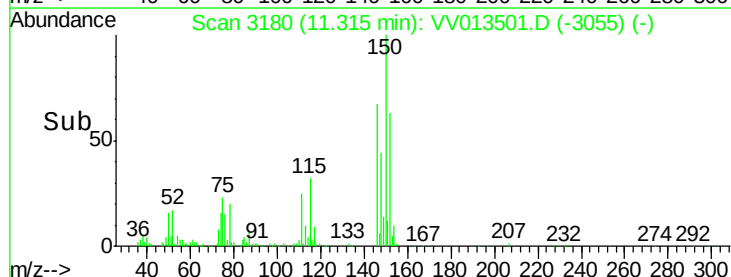
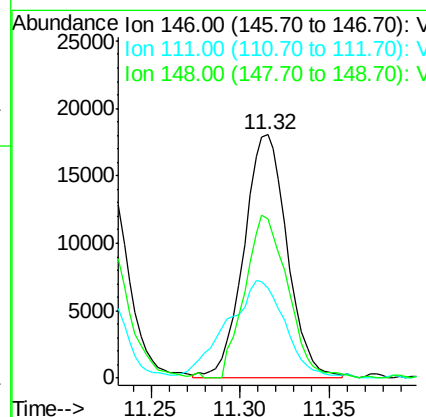
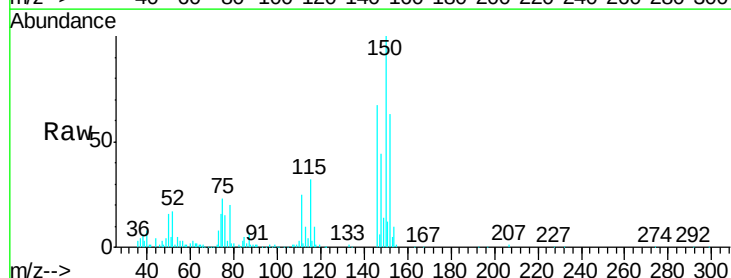
RT: 11.32 min Scan# 3180

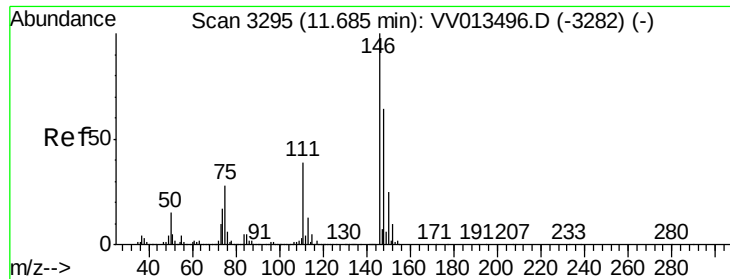
Delta R.T. 0.00 min

Lab File: VV013501.D

Acq: 06 Nov 2019 16:46

Tgt Ion:	146	Resp:	30697
Ion Ratio	Lower	Upper	
146	100		
111	36.8	25.5	47.3
148	65.4	44.9	83.5





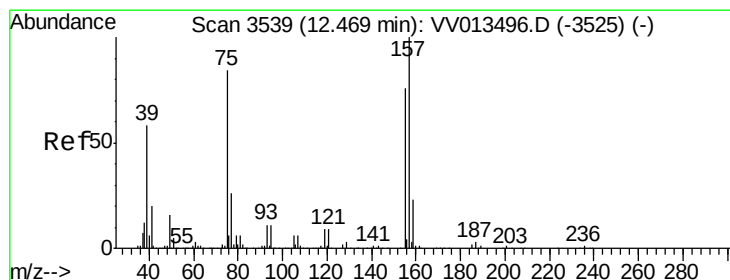
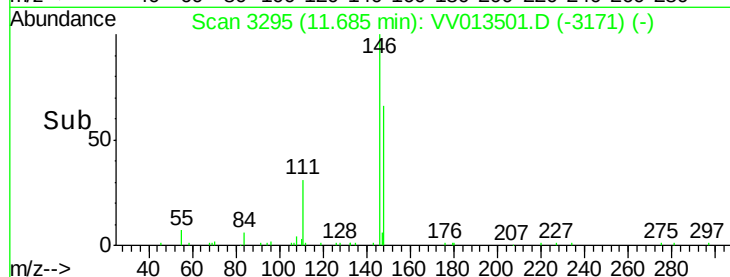
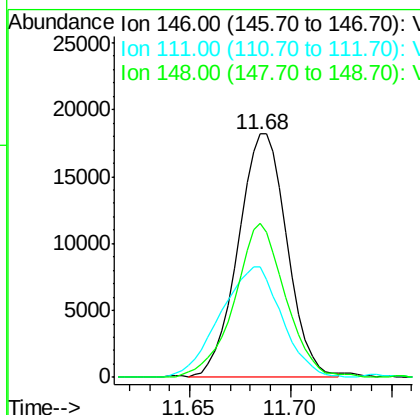
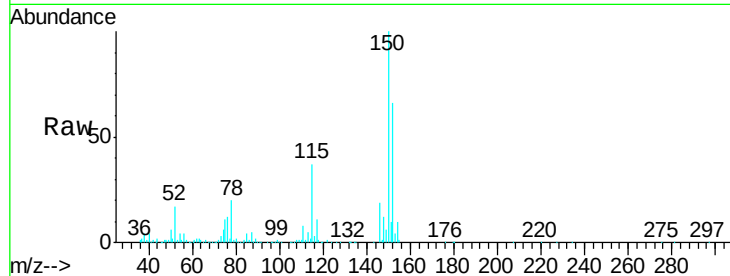
#65
 1,2-Dichlorobenzene
 Concen: 2.529 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	30922		
111	45.2	32.1	48.1	
148	63.5	52.0	78.0	

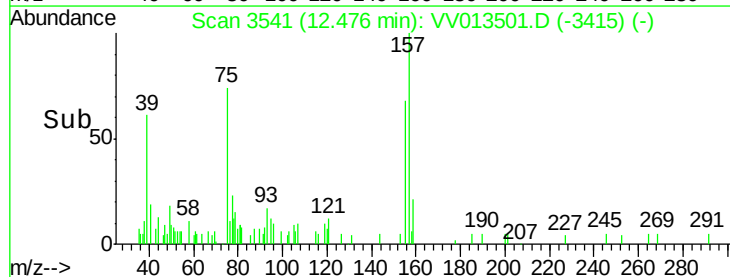
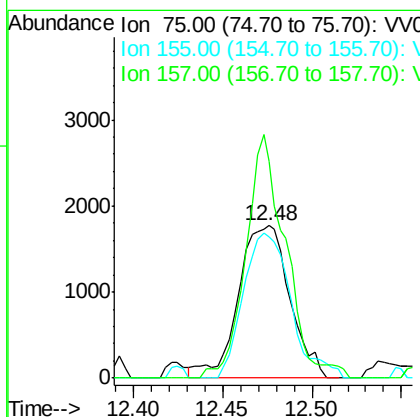
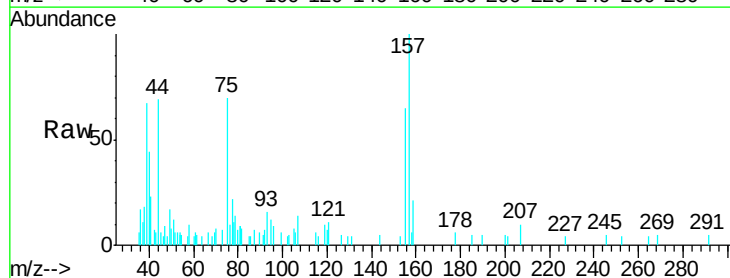
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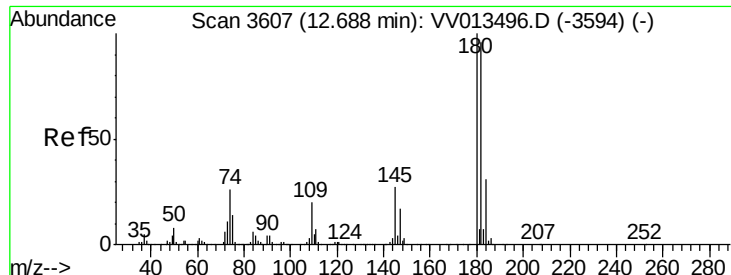
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.108 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.01 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

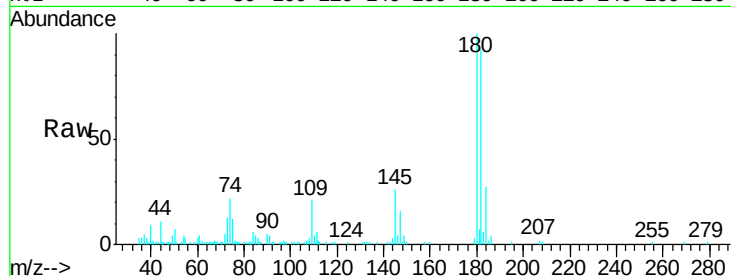
Tgt Ion	Ratio	Resp	Lower	Upper
75	100	3556		
155	92.8	71.9	107.9	
157	142.2	96.6	145.0	





#67
 1,3,5-Trichlorobenzene
 Concen: 2.252 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46

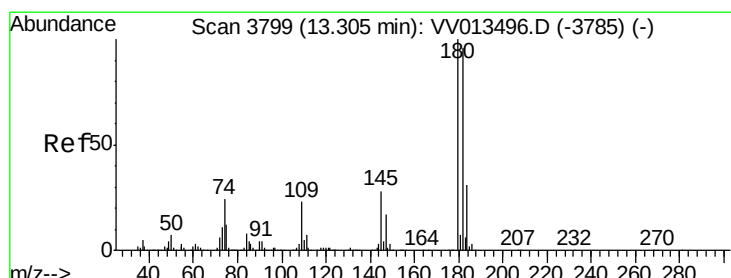
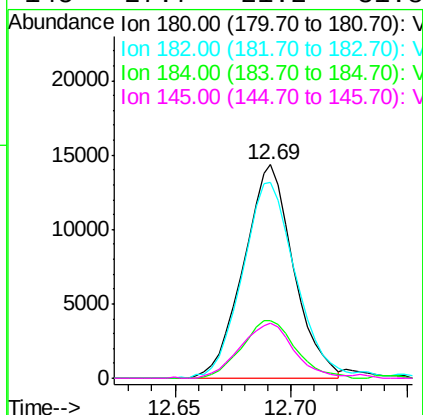
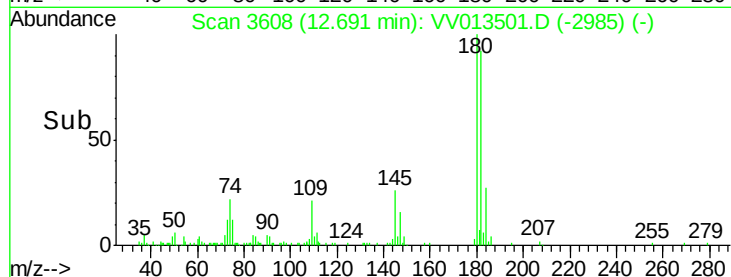
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04



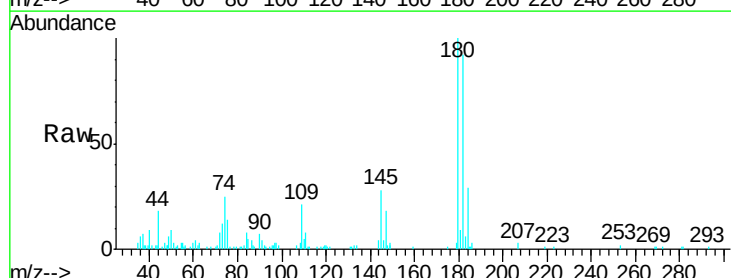
Tgt Ion:	180	Resp:	21479
Ion Ratio	Lower	Upper	
180	100		
182	97.5	76.2	114.2
184	29.1	24.3	36.5
145	27.7	21.2	31.8

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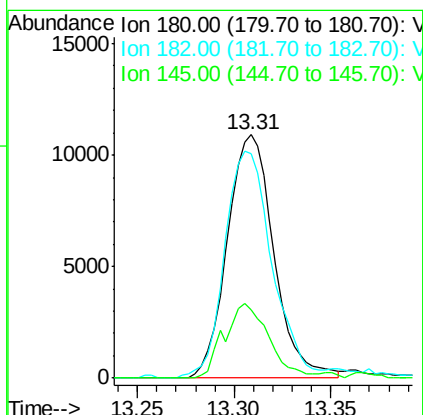
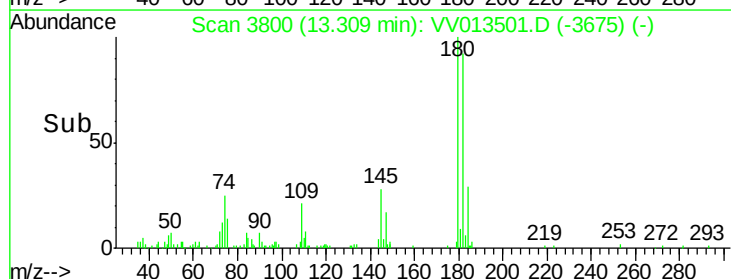
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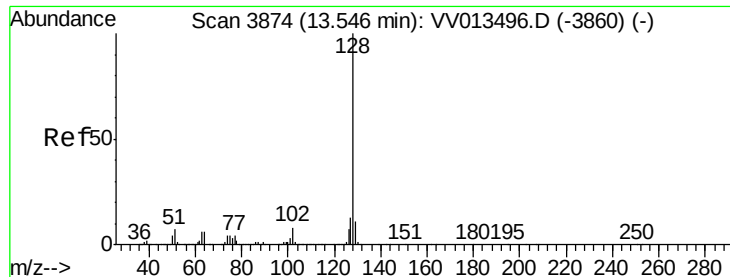


#68
 1,2,4-trichlorobenzene
 Concen: 2.188 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013501.D
 Acq: 06 Nov 2019 16:46



Tgt Ion:	180	Resp:	18282
Ion Ratio	Lower	Upper	
180	100		
182	94.7	76.4	114.6
145	29.2	22.4	33.6





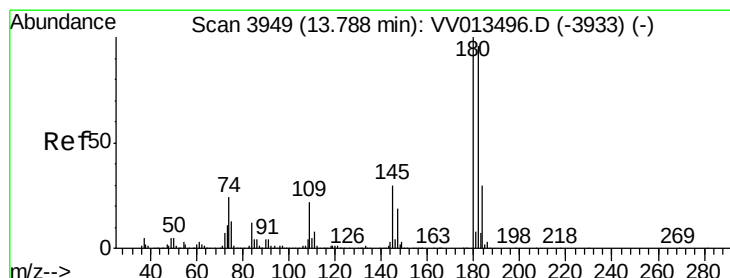
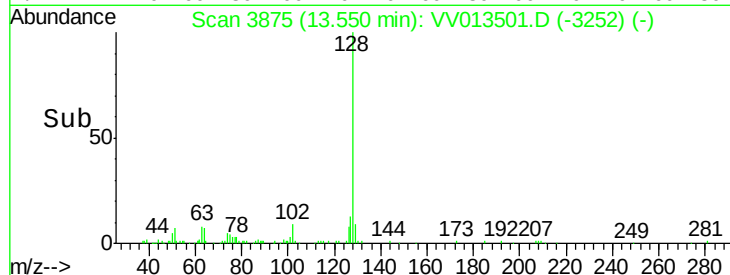
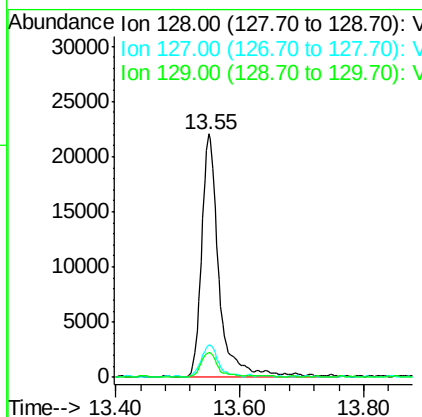
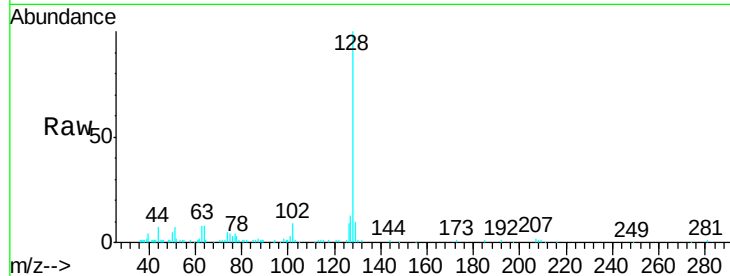
#69
Naphthalene
Concen: 1.938 ug/L m
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	15.8
129	9.5	8.6	13.0

Manual Integrations
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#70
1,2,3-Trichlorobenzene
Concen: 2.109 ug/L m
RT: 13.79 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VV013501.D
Acq: 06 Nov 2019 16:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.2	77.4	116.0
145	29.9	24.0	36.0

