

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV110619\
 Data File : VV013499.D
 Acq On : 06 Nov 2019 15:36
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.0G/5mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 11/7/2019 10:49:38 AM

Quant Time: Nov 07 03:03:41 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	1040814	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	997521	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	476887	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	296217	48.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.20%
7) Chloroethane-d5	1.58	69	248874	50.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.32%
11) 1,1-Dichloroethene-d2	2.13	63	403080	37.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.64%
21) 2-Butanone-d5	3.92	46	495332	109.92	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.92%
24) Chloroform-d	4.40	84	635160	48.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.02%
26) 1,2-Dichloroethane-d4	5.07	65	438491	50.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.56%
32) Benzene-d6	5.09	84	1346039	50.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.18%
36) 1,2-Dichloropropane-d6	6.11	67	439002	50.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.74%
41) Toluene-d8	7.35	98	1237275	50.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.08%
43) trans-1,3-Dichloropropene-	7.66	79	196728	49.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.20%
47) 2-Hexanone-d5	8.13	63	307925	98.35	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.35%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	524500	48.37	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.74%
64) 1,2-Dichlorobenzene-d4	11.67	152	495979	52.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.34%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	21072	2.433 ug/L	98
3) Chloromethane	1.25	50	21883	2.659 ug/L	96
5) Vinyl chloride	1.32	62	20827	2.709 ug/L #	56
6) Bromomethane	1.53	94	9392	2.546 ug/L	92
8) Chloroethane	1.60	64	10981	2.549 ug/L	92
9) Trichlorofluoromethane	1.77	101	26250	2.572 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	18510	3.220 ug/L #	82
12) 1,1-Dichloroethene	2.14	96	17379	3.167 ug/L #	1
13) Acetone	2.18	43	22414	5.329 ug/L	99
14) Carbon disulfide	2.32	76	51015	2.657 ug/L	99
15) Methyl Acetate	2.46	43	17713	2.309 ug/L	99
16) Methylene chloride	2.53	84	19063	2.567 ug/L	98
17) trans-1,2-Dichloroethene	2.79	96	17193	2.517 ug/L	95
18) Methyl tert-butyl Ether	2.80	73	47974	2.303 ug/L	96
19) 1,1-Dichloroethane	3.23	63	33093	2.540 ug/L	95
20) cis-1,2-Dichloroethene	3.96	96	18676m	2.504 ug/L	
22) 2-Butanone	4.02	43	22837m	4.099 ug/L	

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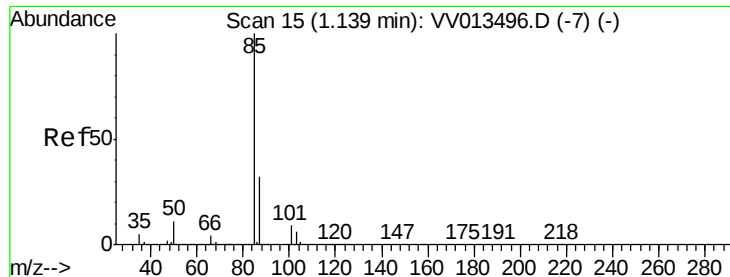
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM110619WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 07 01:53:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	9318	2.363	ug/L	87
25) Chloroform	4.42	83	64943	4.845	ug/L	90
27) 1,2-Dichloroethane	5.18	62	25372	2.470	ug/L #	94
29) Cyclohexane	4.72	56	25603	2.234	ug/L	98
30) 1,1,1-Trichloroethane	4.65	97	27524	2.479	ug/L	99
31) Carbon tetrachloride	4.87	117	23281	2.352	ug/L	100
33) Benzene	5.15	78	70015	2.472	ug/L	100
34) Trichloroethene	5.96	95	20108	2.672	ug/L	99
35) Methylcyclohexane	6.17	83	26639	2.296	ug/L	95
37) 1,2-Dichloropropane	6.22	63	16842	2.259	ug/L #	91
38) Bromodichloromethane	6.55	83	23825	2.430	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	27998	2.472	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	41561	4.325	ug/L	97
42) Toluene	7.43	91	75424	2.555	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	26021	2.640	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	17273	2.474	ug/L	98
46) Tetrachloroethene	8.02	164	15817	2.462	ug/L	97
48) 2-Hexanone	8.18	43	55326	7.290	ug/L	92
49) Dibromochloromethane	8.29	129	18477	2.302	ug/L	97
50) 1,2-Dibromoethane	8.39	107	18053	2.464	ug/L #	96
51) Chlorobenzene	8.92	112	49506	2.524	ug/L	96
52) Ethylbenzene	9.05	91	74507	2.326	ug/L	99
53) m,p-Xylene	9.18	106	25990	2.138	ug/L	96
54) o-xylene	9.59	106	25306	2.171	ug/L	95
55) Styrene	9.60	104	40749	2.022	ug/L	99
56) Isopropylbenzene	9.97	105	65091	2.126	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	26542	2.518	ug/L #	90
59) 1,2,3-Trichloropropane	10.32	75	21462	2.445	ug/L	96
61) Bromoform	9.77	173	14026	2.508	ug/L	95
62) 1,3-Dichlorobenzene	11.23	146	38098	2.636	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	42783	2.858	ug/L	93
65) 1,2-Dichlorobenzene	11.69	146	40535	2.801	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.47	75	4604	2.306	ug/L	86
67) 1,3,5-Trichlorobenzene	12.69	180	30012	2.658	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	25521	2.580	ug/L	97
69) Naphthalene	13.55	128	55934m	2.116	ug/L	
70) 1,2,3-Trichlorobenzene	13.79	180	25797m	2.455	ug/L	

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



#2

Dichlorodifluoromethane

Concen: 2.433 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tgt Ion: 85 Resp: 21072

Ion Ratio Lower Upper

85 100

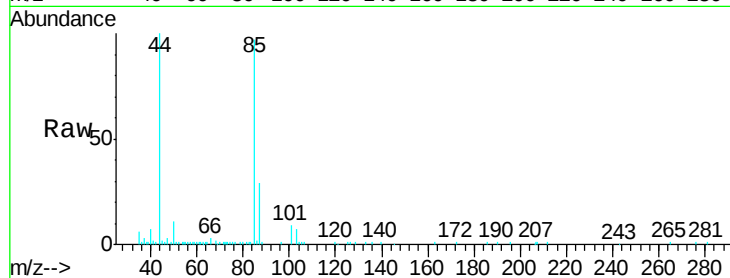
87 30.6 25.4 38.0

Manual Integrations

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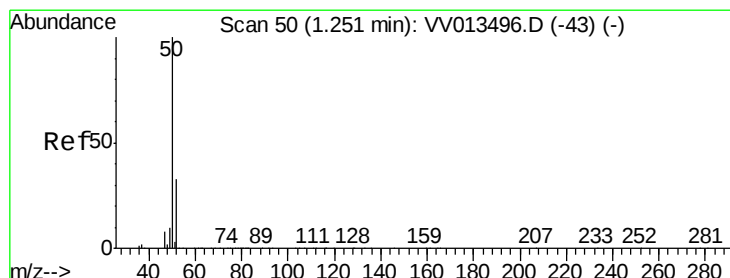
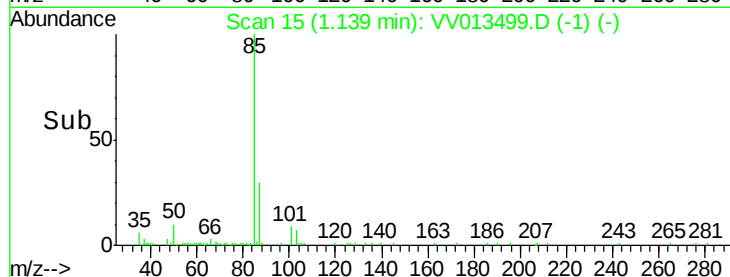
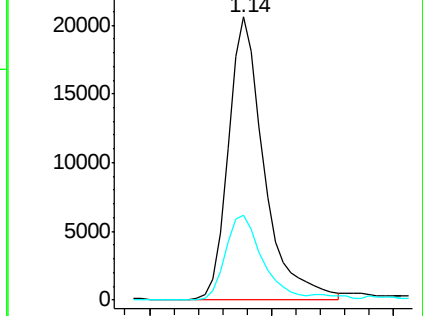
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.659 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013499.D

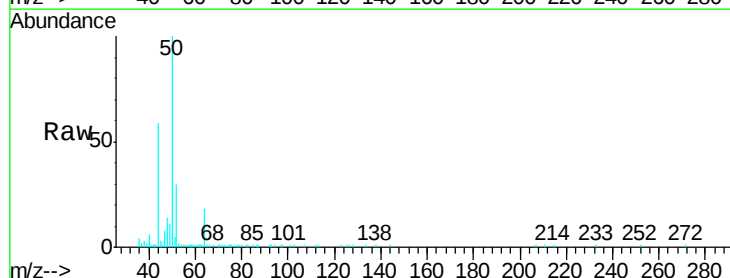
Acq: 06 Nov 2019 15:36

Tgt Ion: 50 Resp: 21883

Ion Ratio Lower Upper

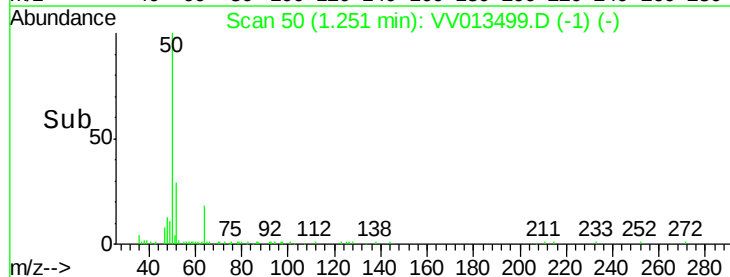
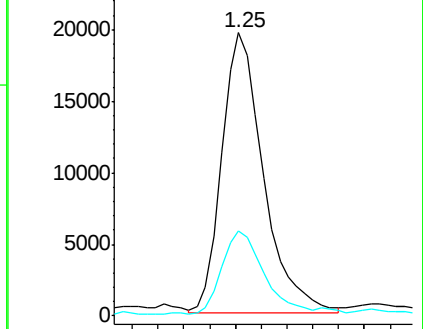
50 100

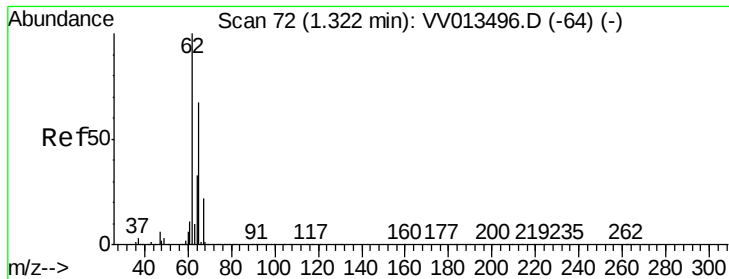
52 29.9 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.709 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tgt Ion: 62 Resp: 20827

Ion Ratio Lower Upper

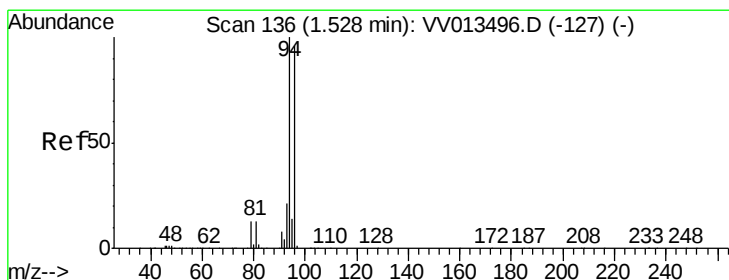
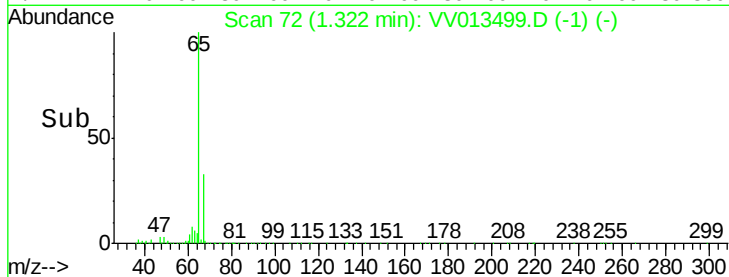
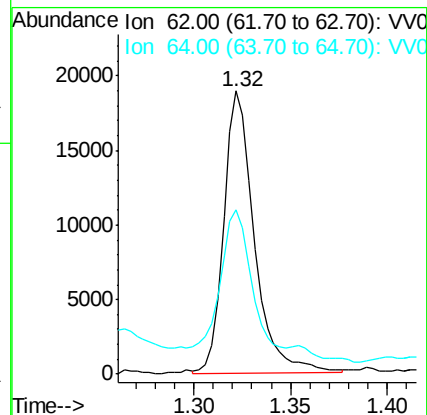
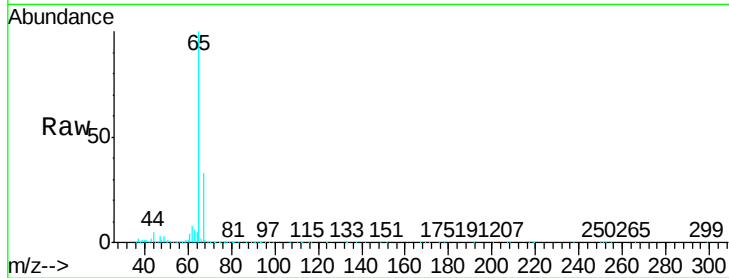
62 100

64 58.0 23.1 42.9#

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#6

Bromomethane

Concen: 2.546 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013499.D

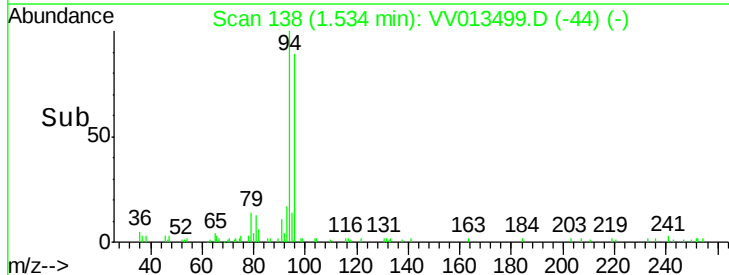
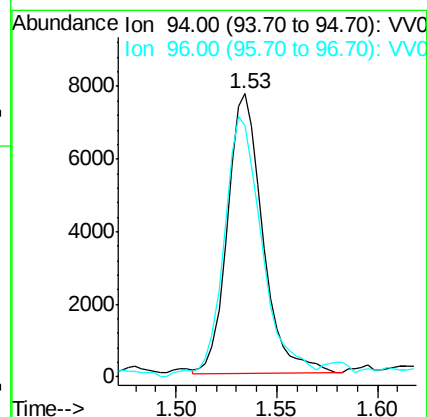
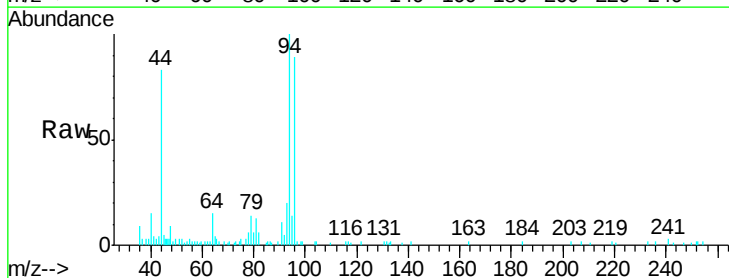
Acq: 06 Nov 2019 15:36

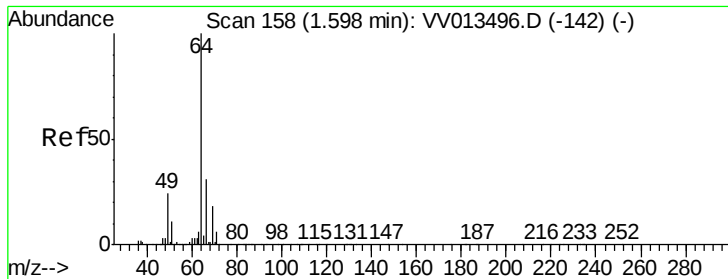
Tgt Ion: 94 Resp: 9392

Ion Ratio Lower Upper

94 100

96 88.8 67.4 125.2





#8

Chloroethane

Concen: 2.549 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tgt Ion: 64 Resp: 10981

Ion Ratio Lower Upper

64 100

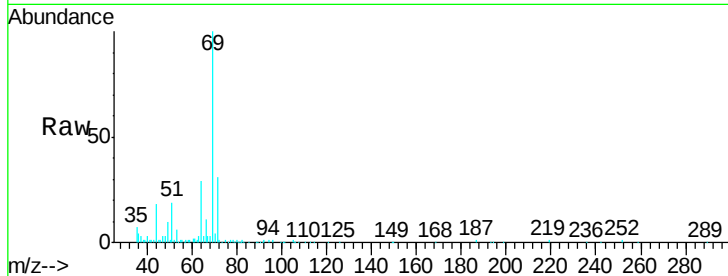
66 36.7 22.5 41.9

Manual Integrations

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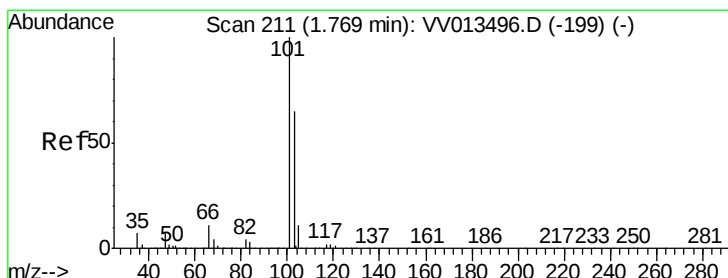
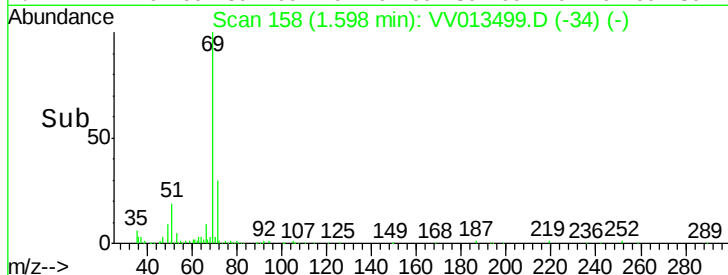
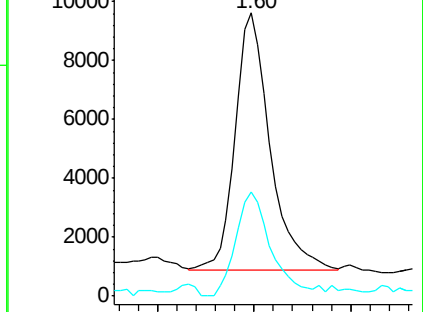
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Abundance Ion 64.00 (63.70 to 64.70): VV013496.D (-142) (-)

Ion 66.00 (65.70 to 66.70): VV013499.D (-34) (-)



#9

Trichlorofluoromethane

Concen: 2.572 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013499.D

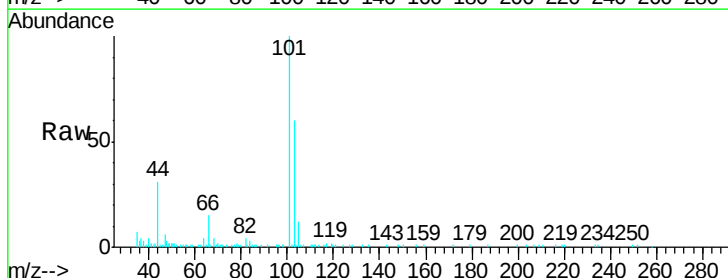
Acq: 06 Nov 2019 15:36

Tgt Ion: 101 Resp: 26250

Ion Ratio Lower Upper

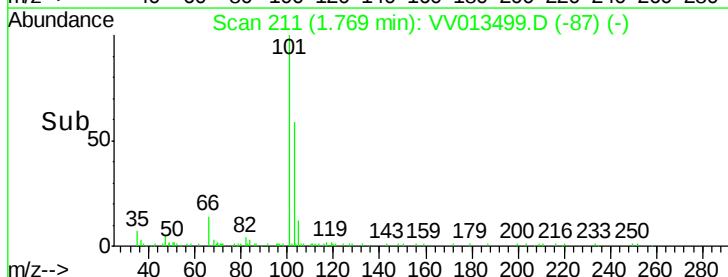
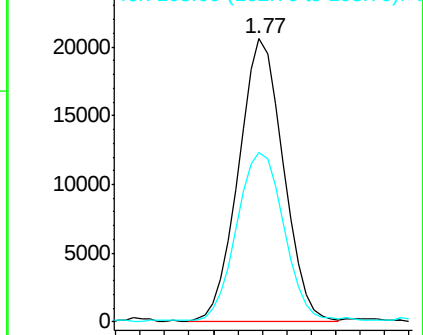
101 100

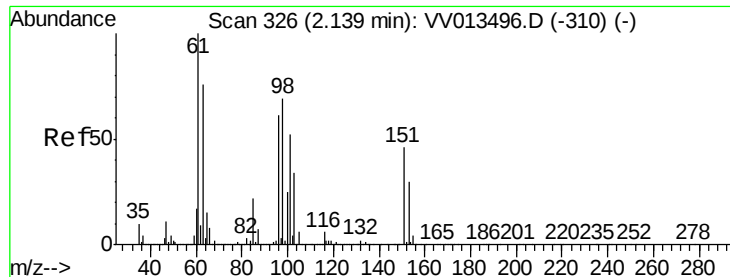
103 63.6 52.5 78.7



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

Ion 103.00 (102.70 to 103.70): VV013499.D (-87) (-)





#10

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

Concen: 3.220 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

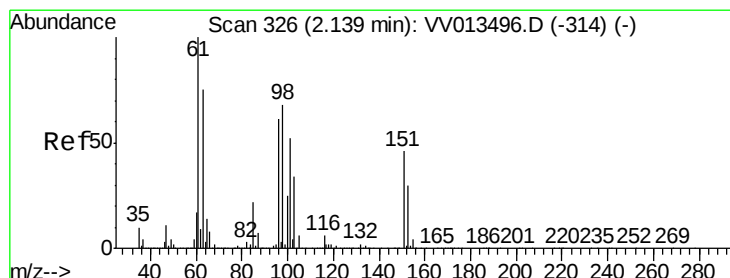
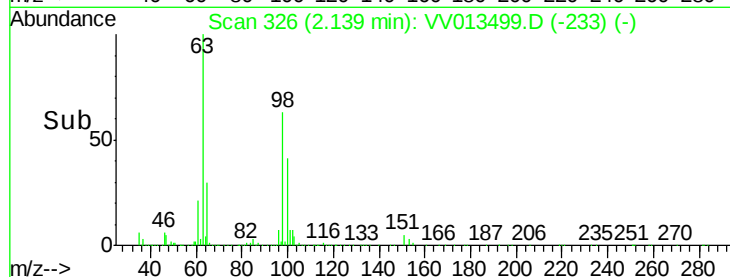
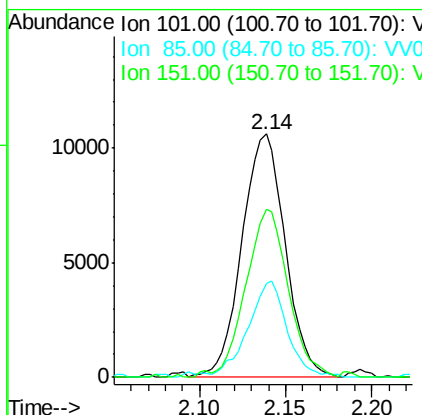
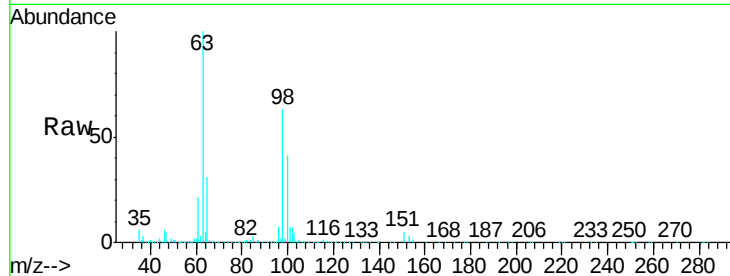
ClientSampled :

MDL02

Tgt Ion:	101	Resp:	18510
Ion Ratio	Lower	Upper	
101	100		
85	33.4	33.3	49.9
151	67.4	69.5	104.3#

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#12

1,1-Dichloroethene

Concen: 3.167 ug/L

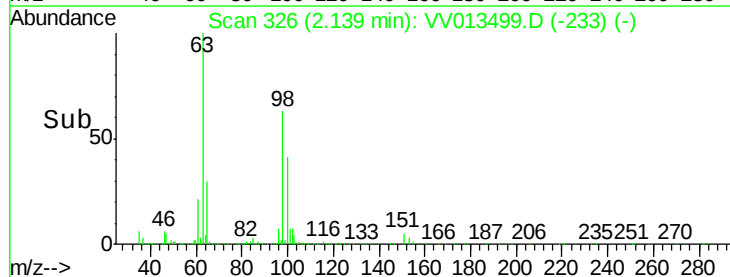
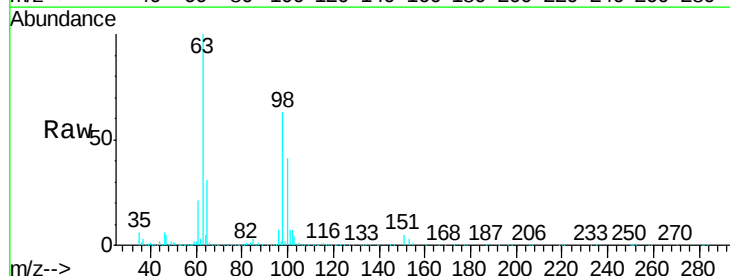
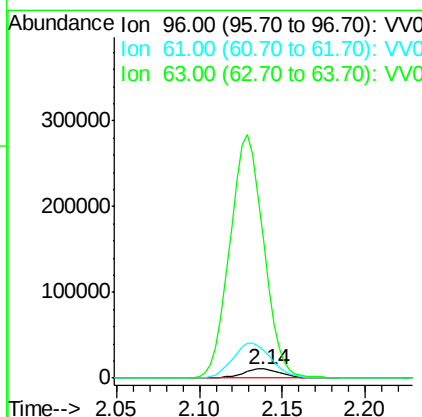
RT: 2.14 min Scan# 326

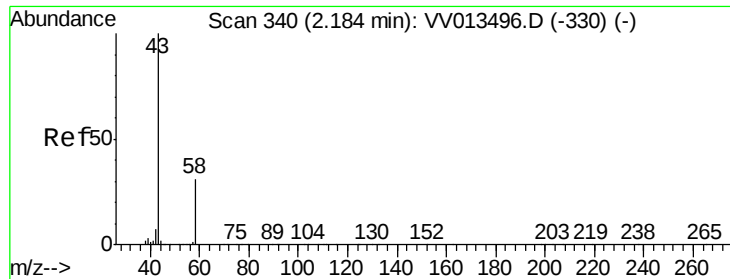
Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Tgt Ion:	96	Resp:	17379
Ion Ratio	Lower	Upper	
96	100		
61	305.4	116.9	217.1#
63	1484.7	91.5	169.9#





#13

Acetone

Concen: 5.329 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tgt Ion: 43 Resp: 22414

Ion Ratio Lower Upper

43 100

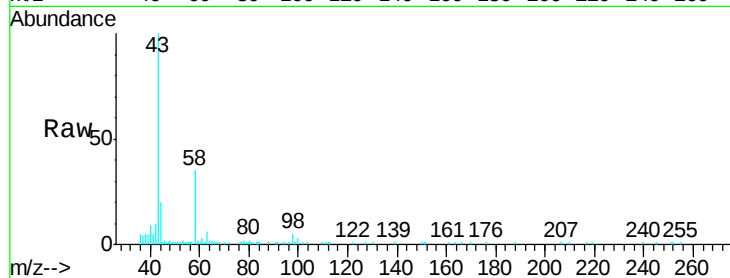
58 33.4 0.0 65.2

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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

15000

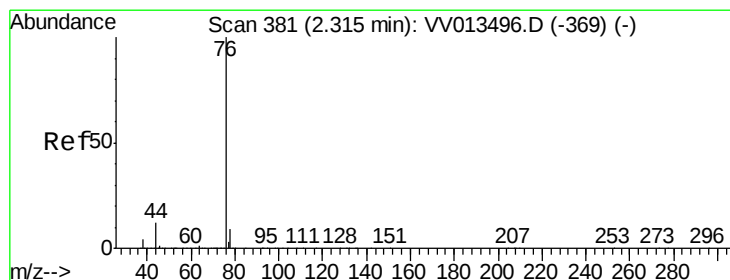
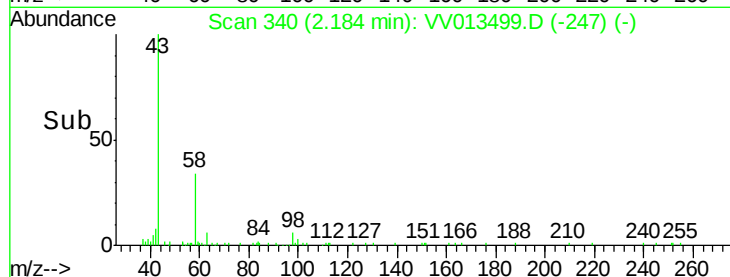
10000

5000

0

2.15 2.20

Time-->



#14

Carbon disulfide

Concen: 2.657 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV013499.D

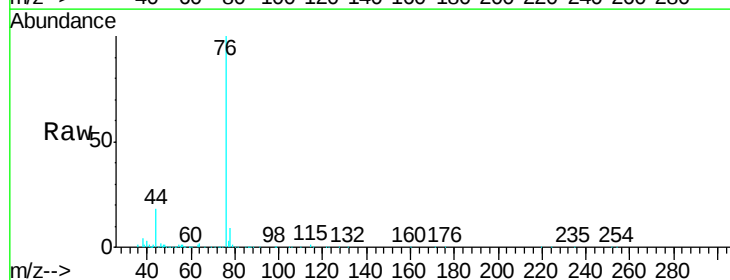
Acq: 06 Nov 2019 15:36

Tgt Ion: 76 Resp: 51015

Ion Ratio Lower Upper

76 100

78 8.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

40000

30000

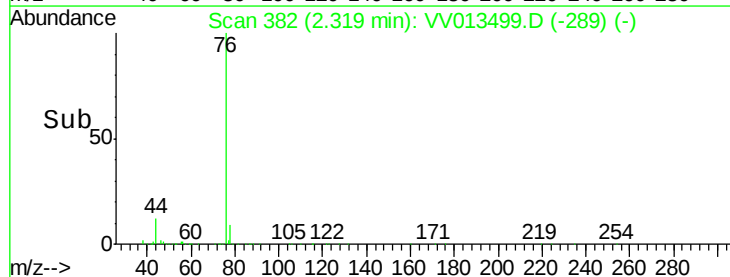
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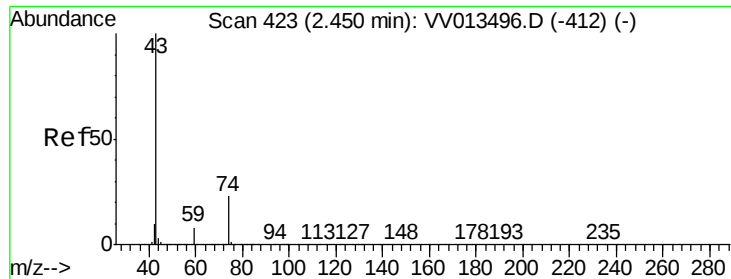
10000

0

2.25 2.30 2.35

Time-->





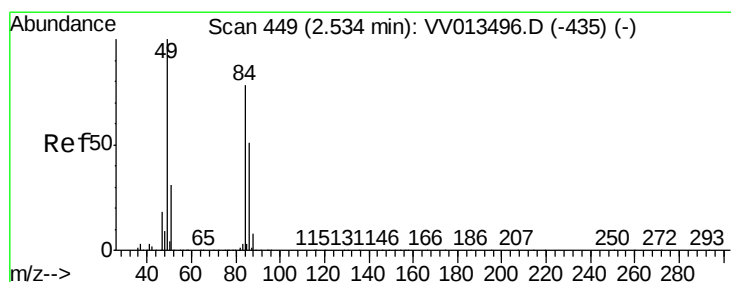
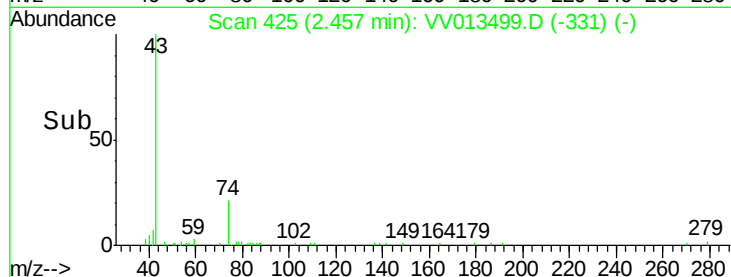
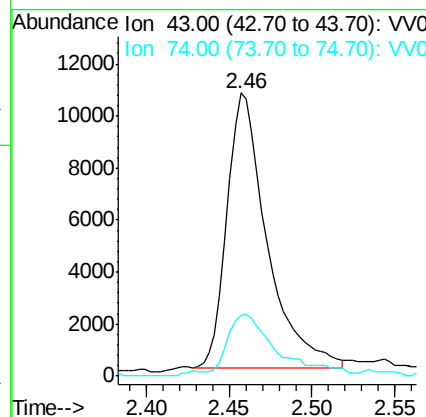
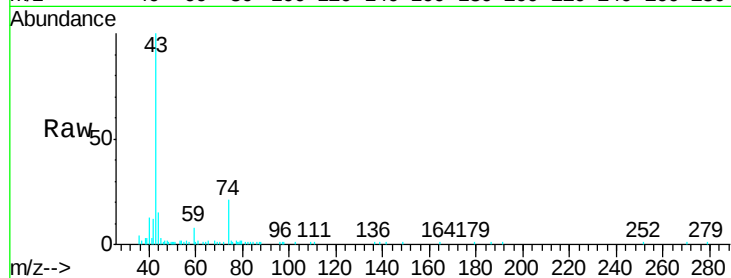
#15
Methyl Acetate
Concen: 2.309 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion: 43 Resp: 17713
Ion Ratio Lower Upper
43 100
74 22.6 17.7 26.5

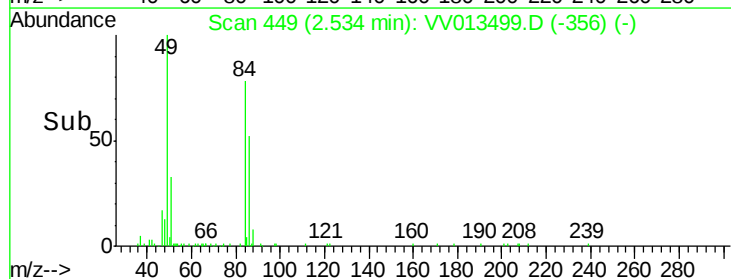
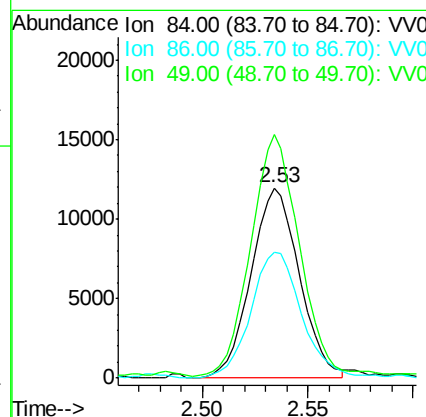
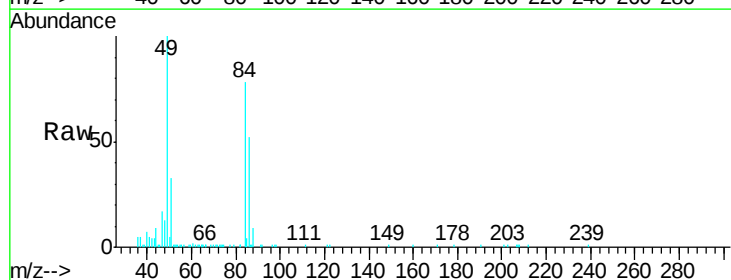
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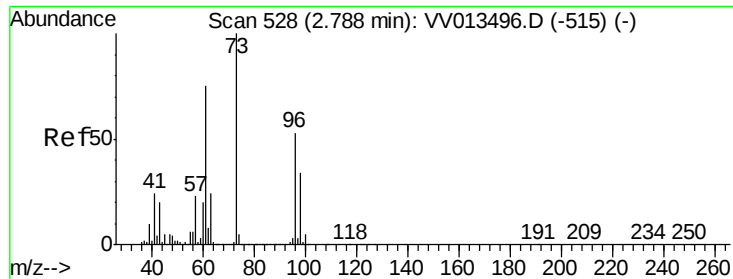
MMDadoda
11/7/2019 10:49:38 AM



#16
Methylene chloride
Concen: 2.567 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Tgt Ion: 84 Resp: 19063
Ion Ratio Lower Upper
84 100
86 66.5 44.7 83.1
49 128.2 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.517 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

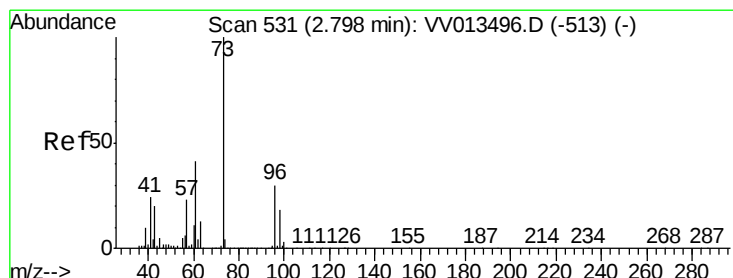
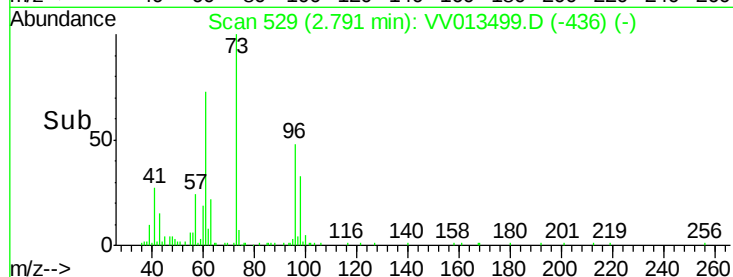
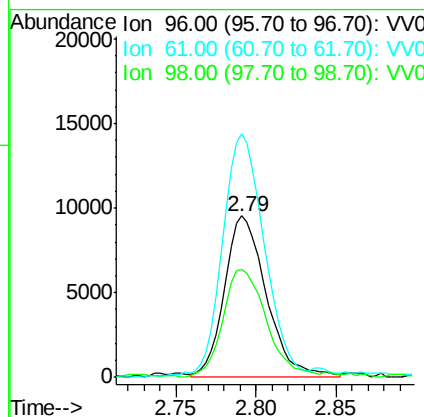
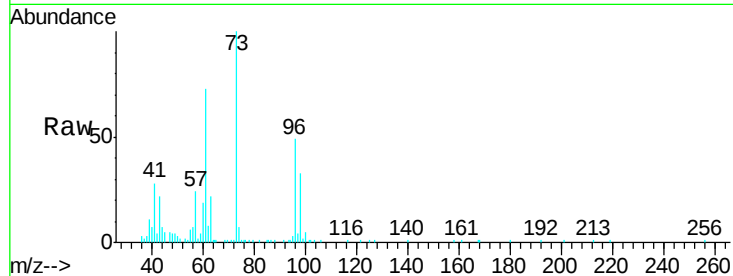
ClientSampled :

MDL02

Tgt Ion:	96	Resp:	17193
Ion	Ratio	Lower	Upper
96	100		
61	150.8	100.4	186.6
98	67.2	44.7	83.1

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#18

Methyl tert-butyl Ether

Concen: 2.303 ug/L

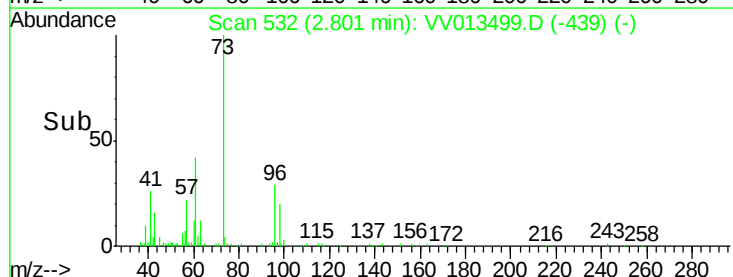
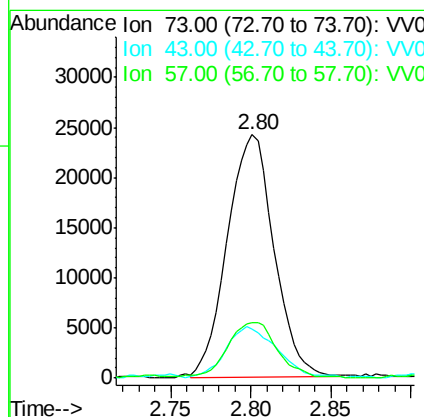
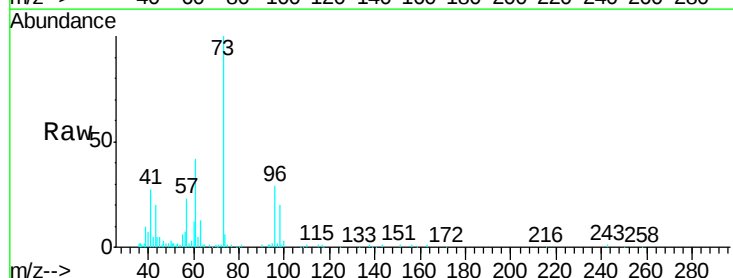
RT: 2.80 min Scan# 532

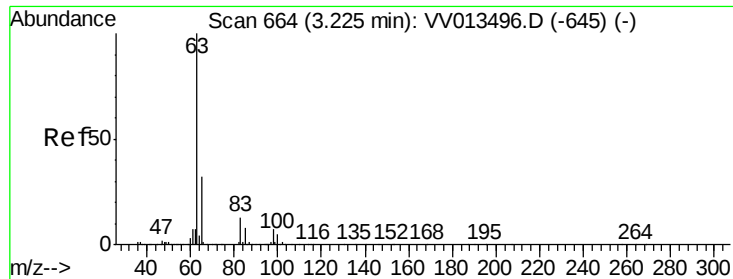
Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Tgt Ion:	73	Resp:	47974
Ion	Ratio	Lower	Upper
73	100		
43	23.3	15.7	23.5
57	23.2	18.1	27.1





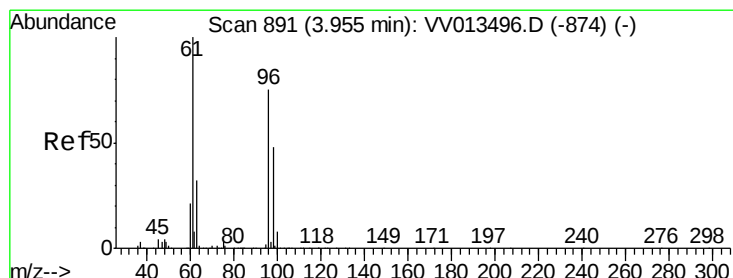
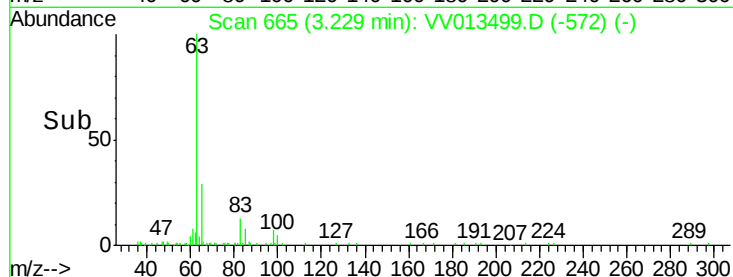
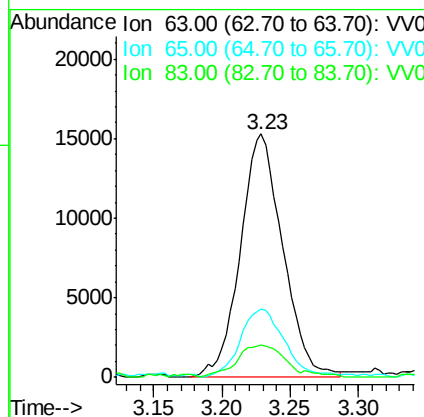
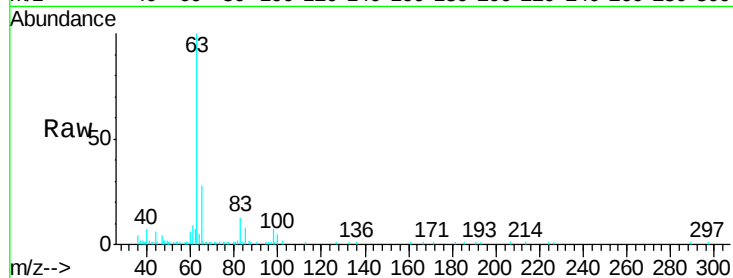
#19
1,1-Dichloroethane
Concen: 2.540 ug/L
RT: 3.23 min Scan# 665
Delta R.T. -0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion	Ratio	Lower	Upper
63	100		
65	28.2	22.2	41.2
83	13.2	8.9	16.5

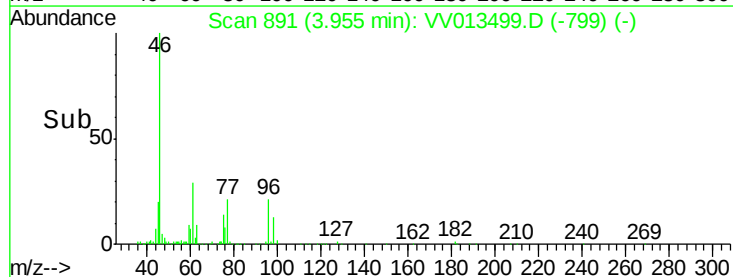
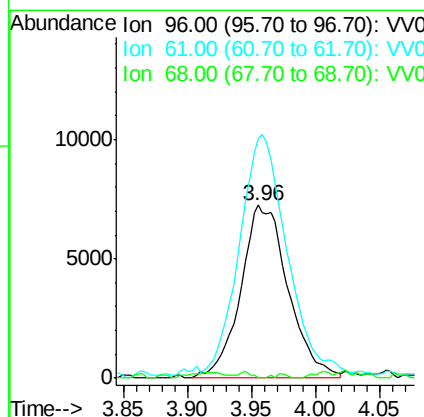
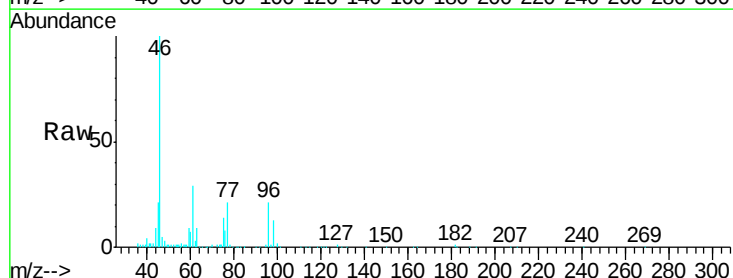
Manual Integrations
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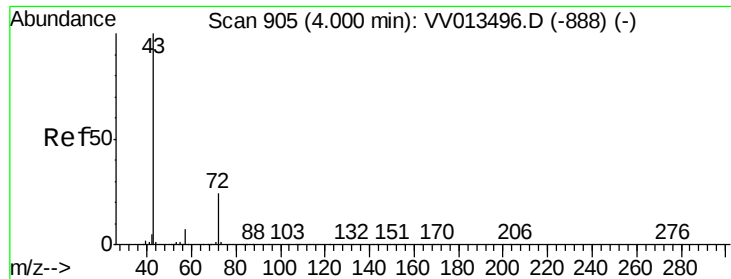
MMDadoda
11/7/2019 10:49:38 AM



#20
cis-1,2-Dichloroethene
Concen: 2.504 ug/L m
RT: 3.96 min Scan# 891
Delta R.T. -0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	138.7	92.1	171.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.099 ug/L m

RT: 4.02 min Scan# 911

Delta R.T. 0.02 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tgt Ion: 43 Resp: 22837

Ion Ratio Lower Upper

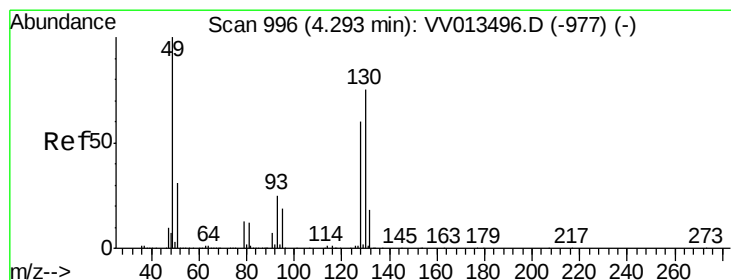
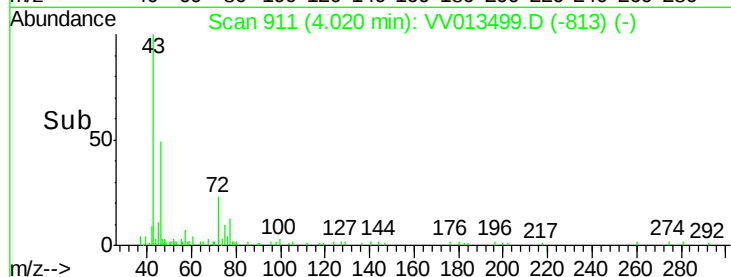
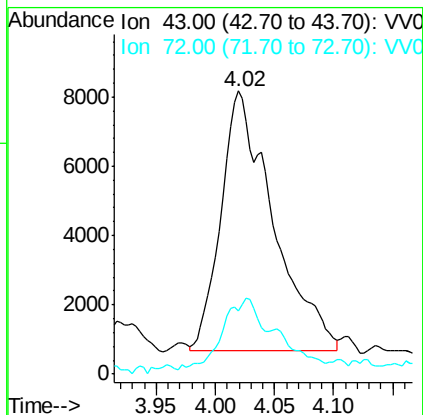
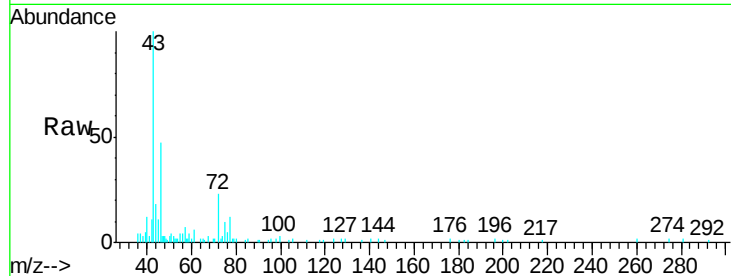
43 100

72 7.4 12.3 36.9#

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#23

Bromochloromethane

Concen: 2.363 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Tgt Ion: 128 Resp: 9318

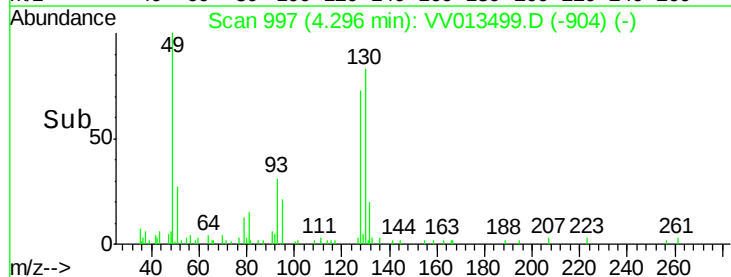
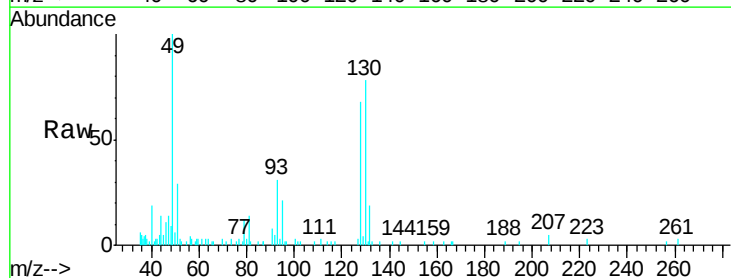
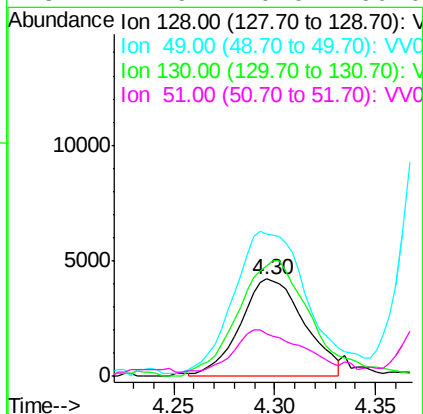
Ion Ratio Lower Upper

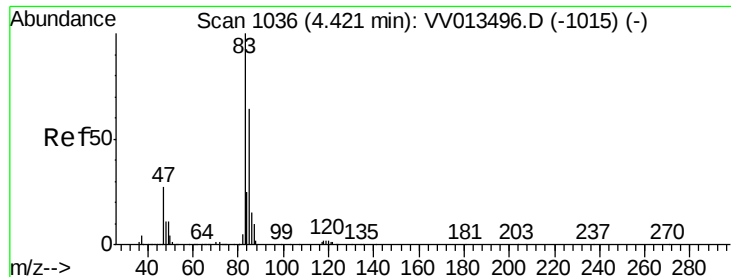
128 100

49 146.2 115.8 215.2

130 113.4 89.1 165.5

51 42.9 40.0 60.0





#25

Chloroform

Concen: 4.845 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tgt Ion: 83 Resp: 64943

Ion Ratio Lower Upper

83 100

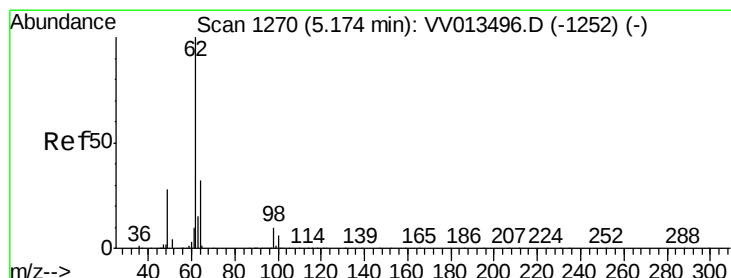
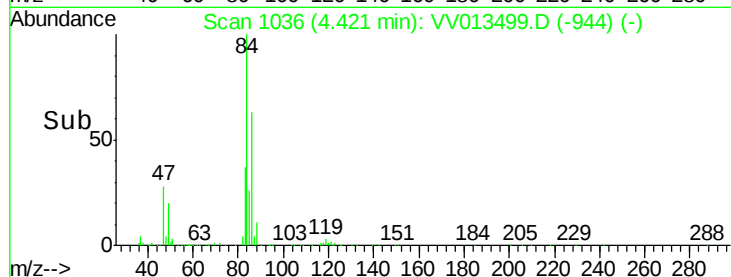
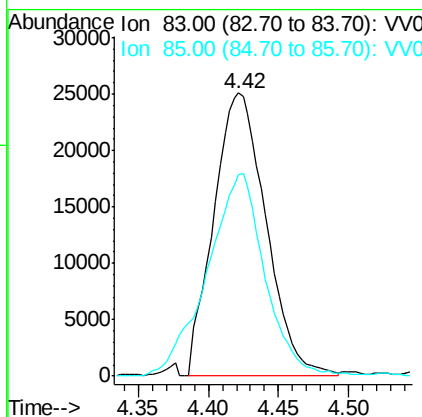
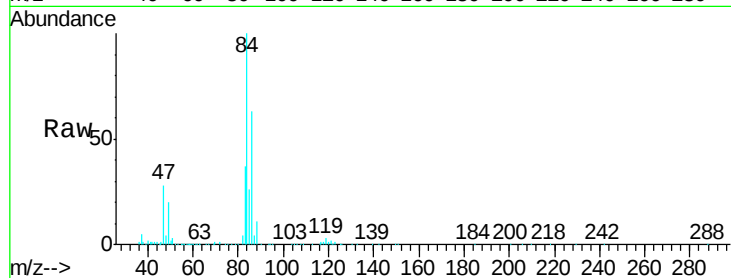
85 71.0 44.4 82.5

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#27

1,2-Dichloroethane

Concen: 2.470 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VV013499.D

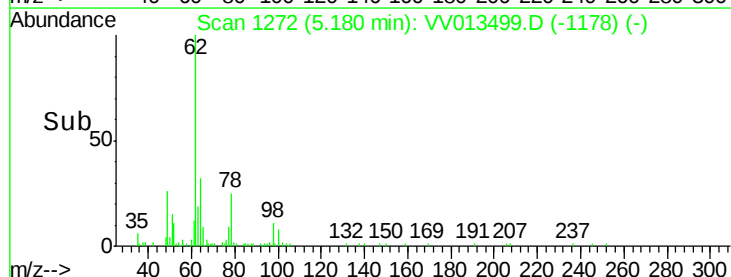
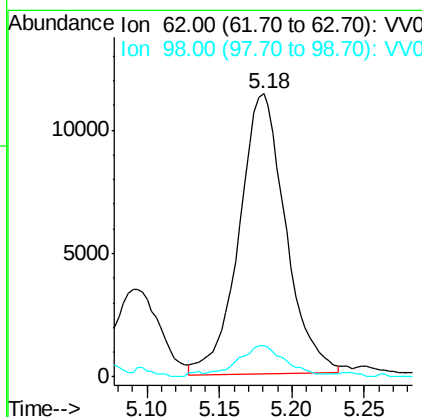
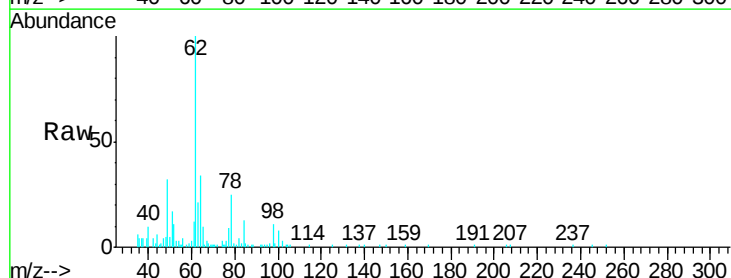
Acq: 06 Nov 2019 15:36

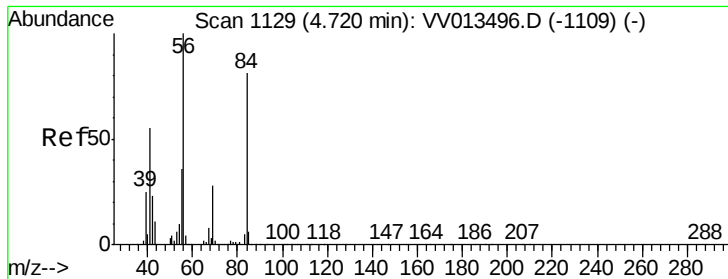
Tgt Ion: 62 Resp: 25372

Ion Ratio Lower Upper

62 100

98 12.6 8.2 12.4#





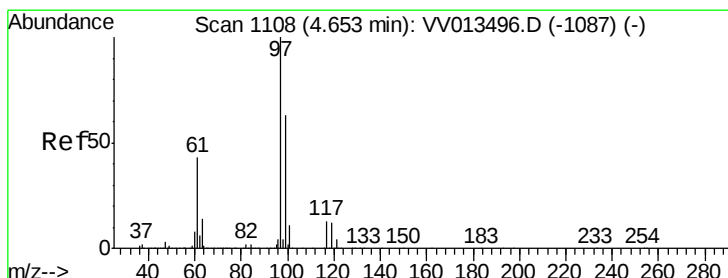
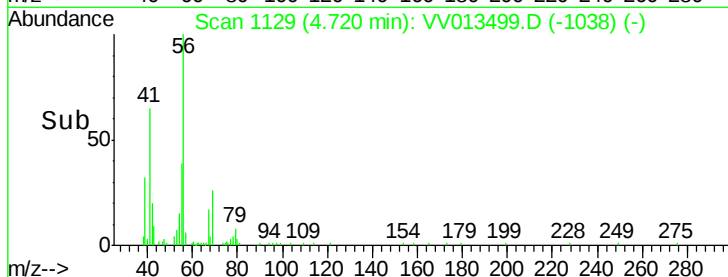
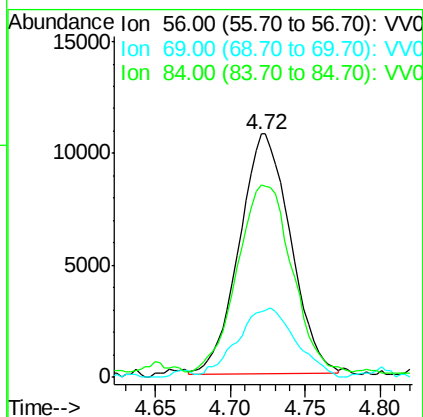
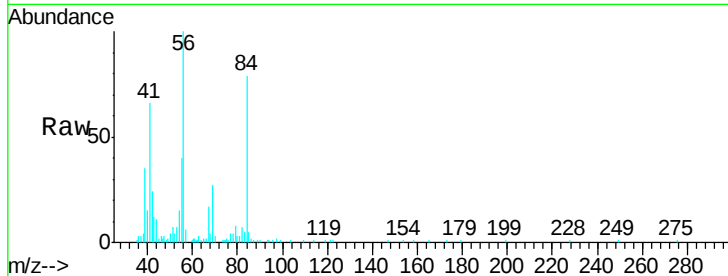
#29
Cyclohexane
Concen: 2.234 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.01 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.5	23.7	35.5
84	83.2	66.3	99.5

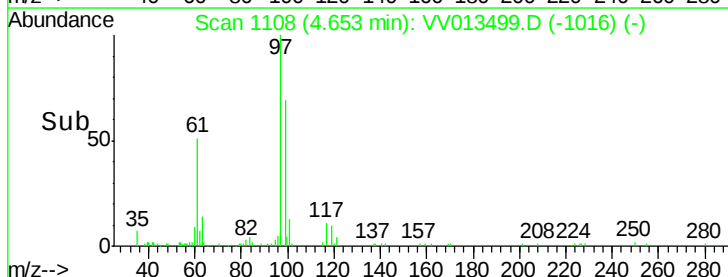
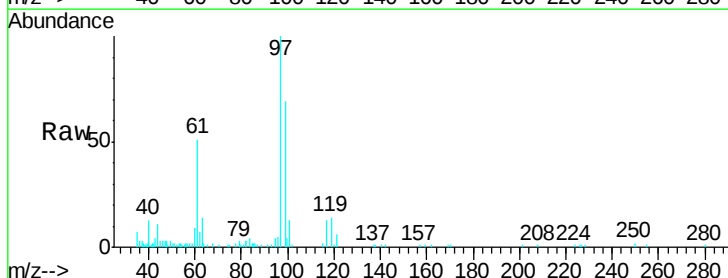
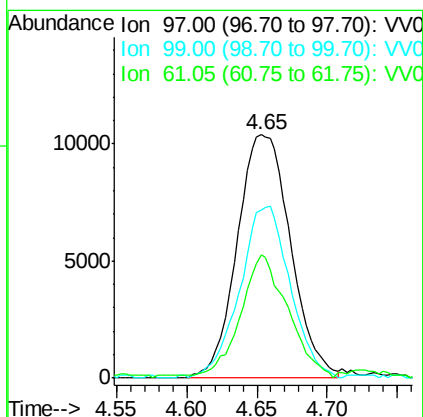
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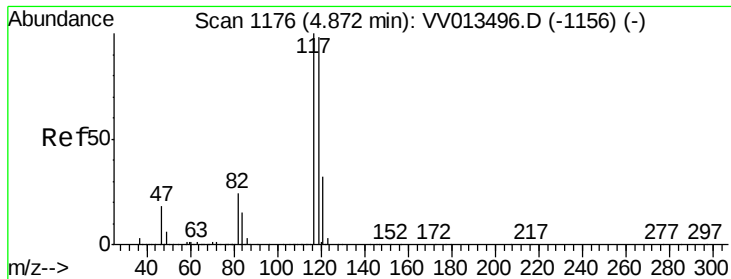
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.479 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.6	52.0	78.0
61	45.1	35.8	53.8





#31

Carbon tetrachloride

Concen: 2.352 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tgt Ion:117 Resp: 23281

Ion Ratio Lower Upper

117 100

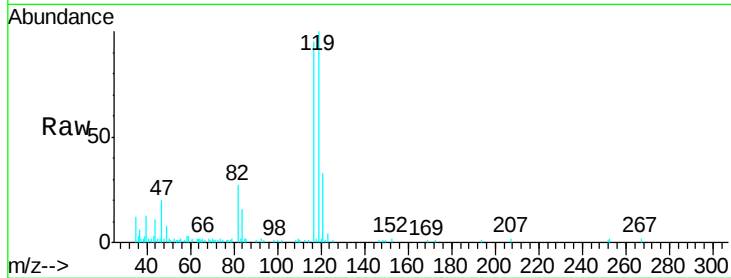
119 97.3 77.6 116.4

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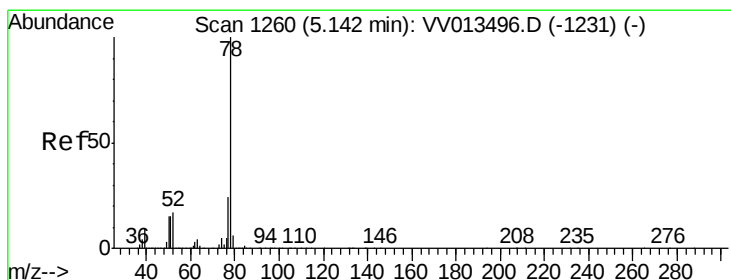
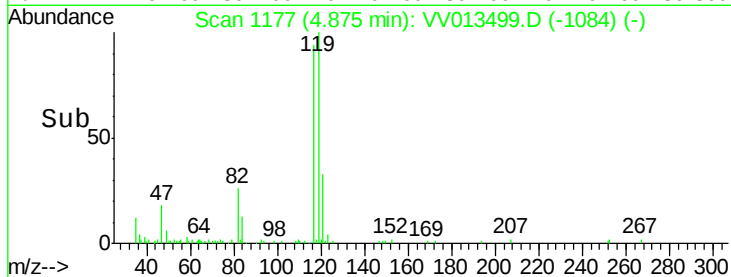
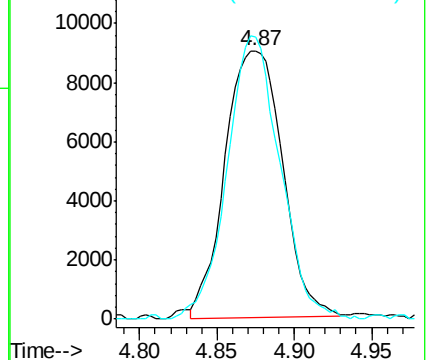
MMDadoda

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.472 ug/L

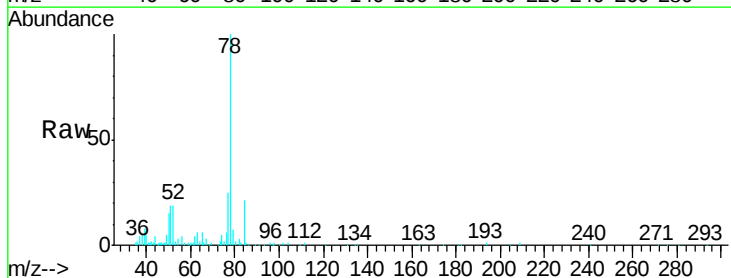
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

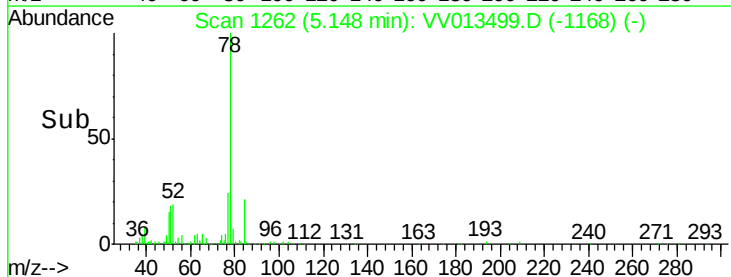
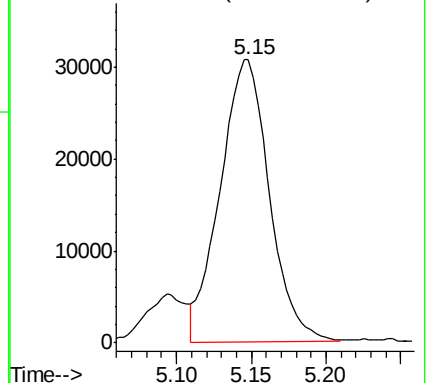
Lab File: VV013499.D

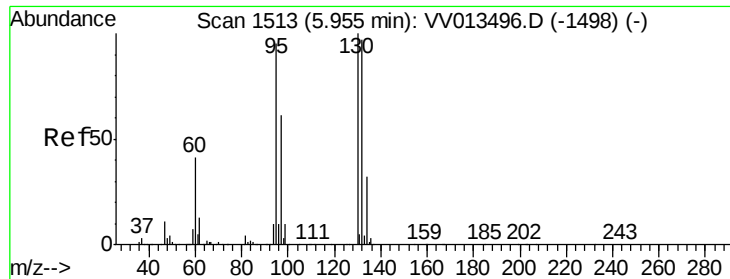
Acq: 06 Nov 2019 15:36

Tgt Ion: 78 Resp: 70015



Abundance Ion 78.00 (77.70 to 78.70): VV0





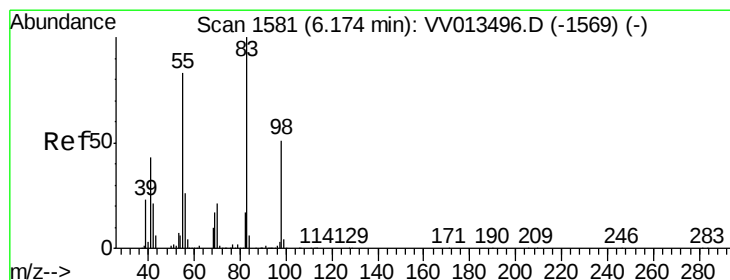
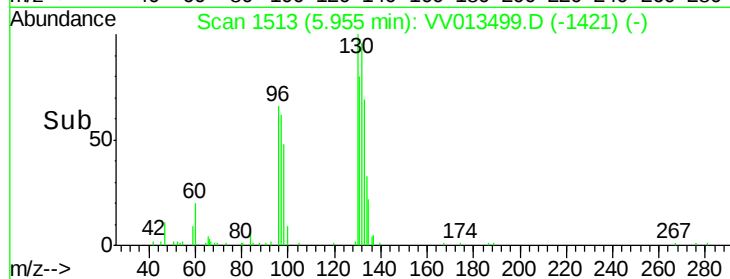
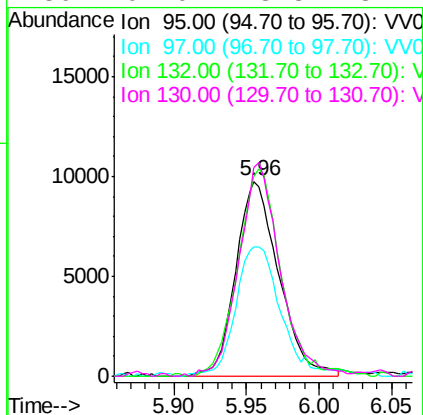
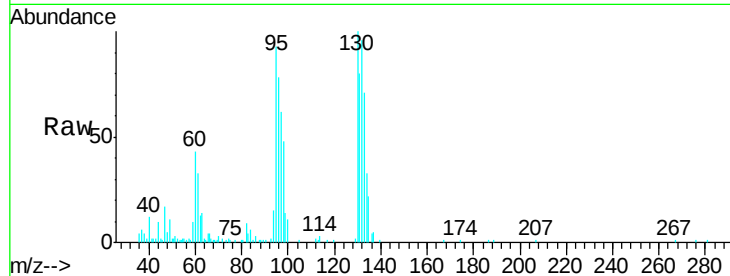
#34
 Trichloroethene
 Concen: 2.672 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VV013499.D
 Acq: 06 Nov 2019 15:36

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tgt Ion	Ratio	Lower	Upper
95	100		
97	66.3	45.1	83.7
132	102.7	71.7	133.1
130	107.0	73.8	137.2

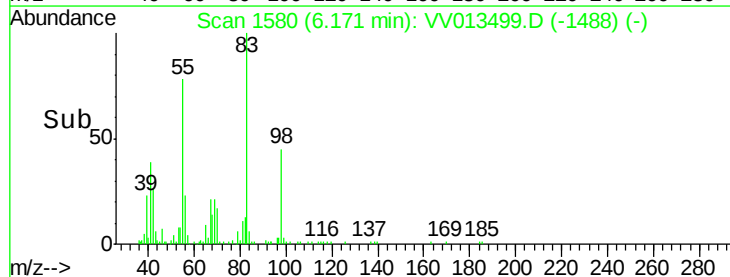
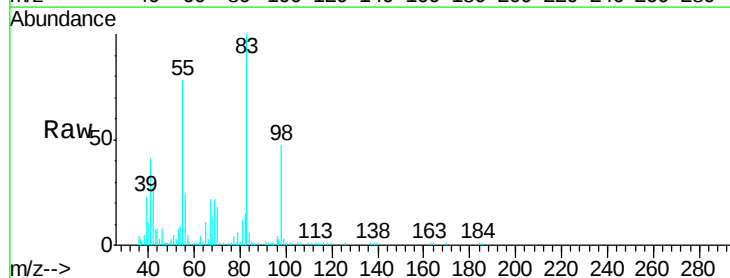
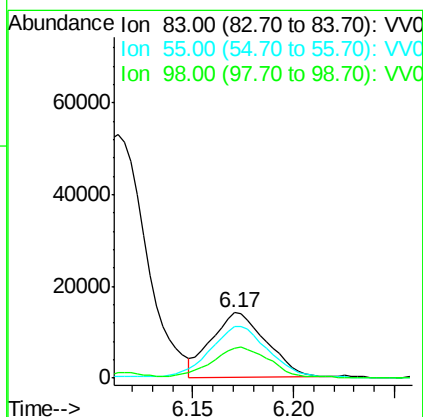
Manual Integrations
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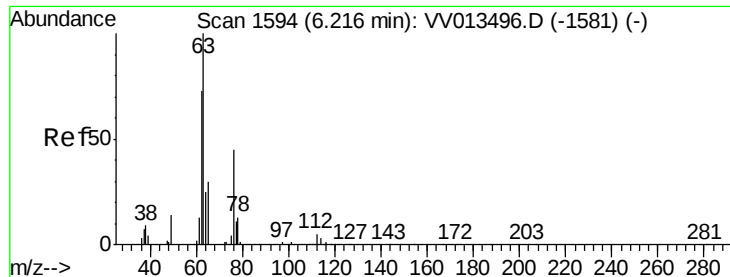
MMDadoda
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#35
 Methylcyclohexane
 Concen: 2.296 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VV013499.D
 Acq: 06 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
83	100		
55	83.9	63.4	95.0
98	52.0	38.6	58.0





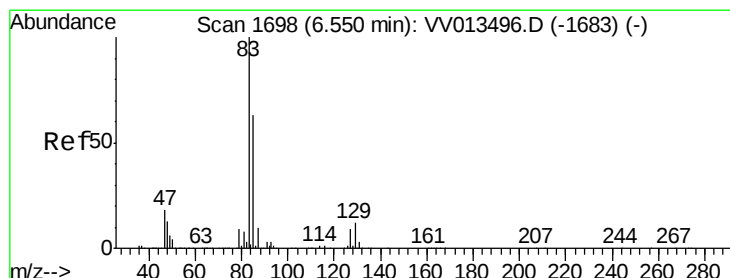
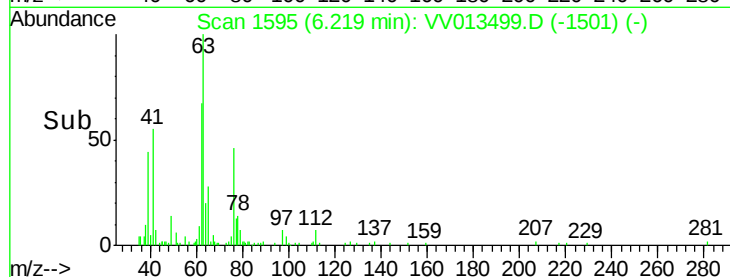
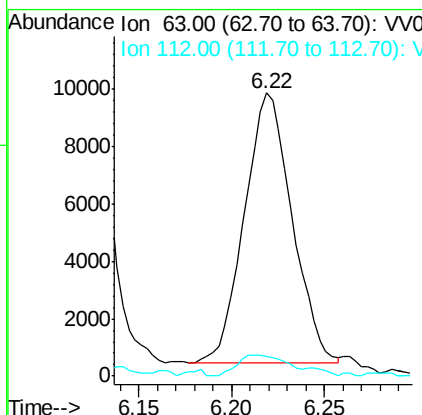
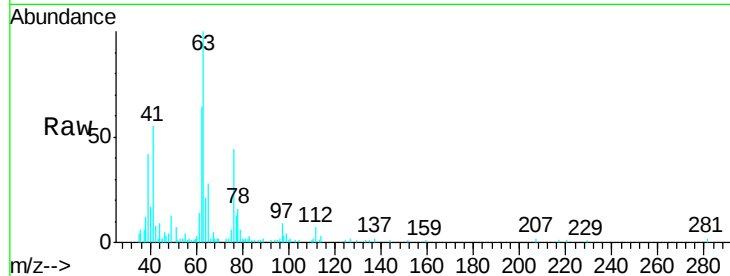
#37
 1,2-Dichloropropane
 Concen: 2.259 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV013499.D
 Acq: 06 Nov 2019 15:36

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tgt Ion: 63 Resp: 16842
 Ion Ratio Lower Upper
 63 100
 112 8.0 3.9 5.9#

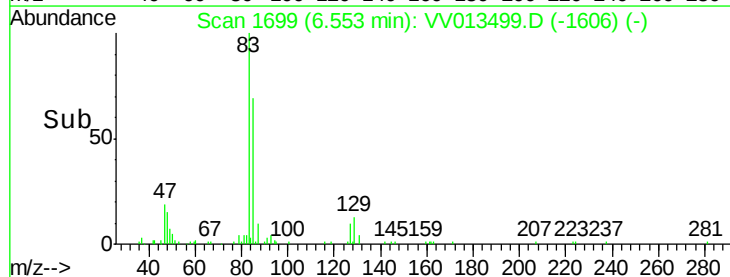
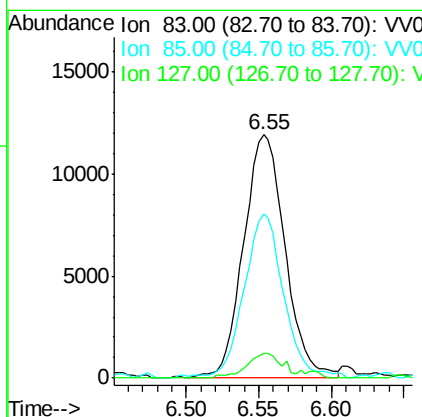
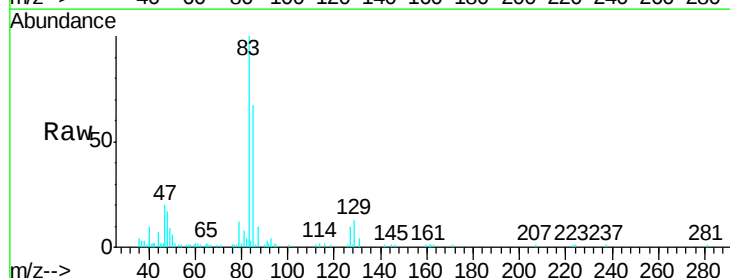
Manual Integrations
 APPROVED

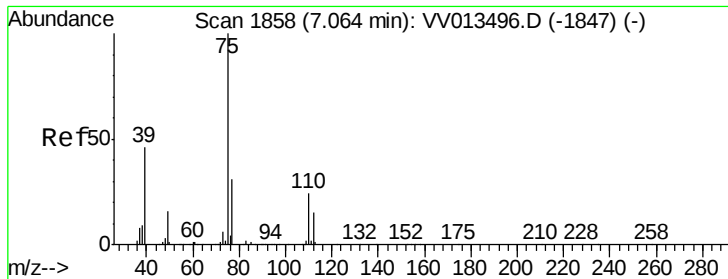
MMDadoda
 11/7/2019 10:49:38 AM



#38
 Bromodichloromethane
 Concen: 2.430 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV013499.D
 Acq: 06 Nov 2019 15:36

Tgt Ion: 83 Resp: 23825
 Ion Ratio Lower Upper
 83 100
 85 67.4 44.8 83.2
 127 9.9 7.1 10.7





#39

cis-1,3-Dichloropropene

Concen: 2.472 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tgt Ion: 75 Resp: 27998

Ion Ratio Lower Upper

75 100

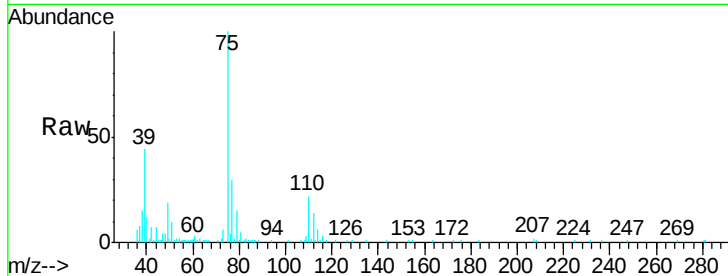
77 30.1 22.0 40.8

Manual Integrations

APPROVED

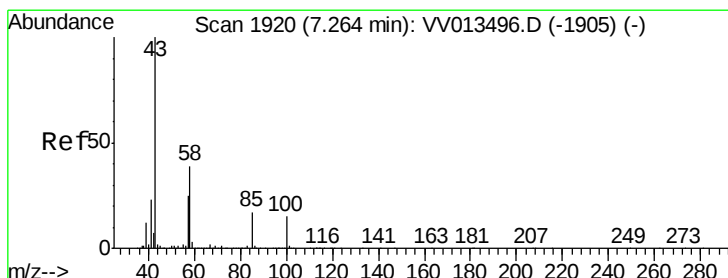
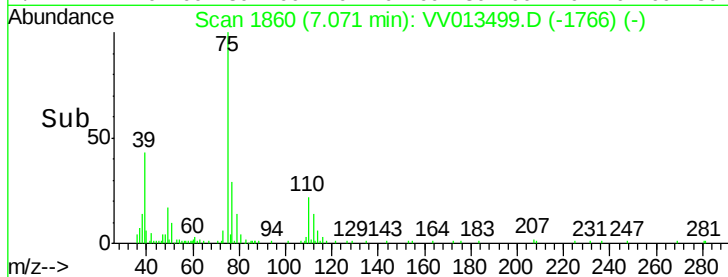
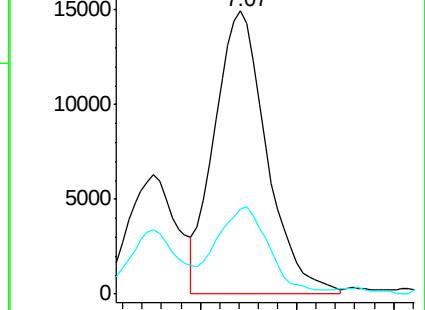
MMDadoda

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Abundance Ion 75.00 (74.70 to 75.70): VV013496.D (-1847) (-)

Ion 77.00 (76.70 to 77.70): VV013496.D (-1847) (-)



#40

4-Methyl-2-pentanone

Concen: 4.325 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. 0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

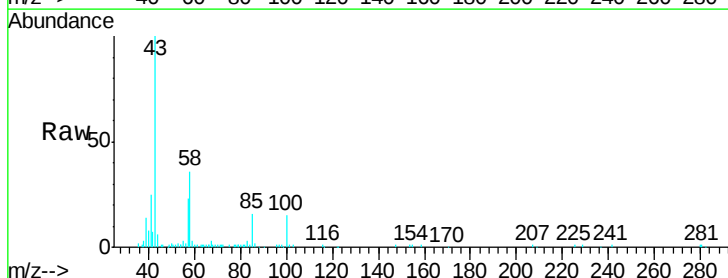
Tgt Ion: 43 Resp: 41561

Ion Ratio Lower Upper

43 100

58 36.2 31.0 46.4

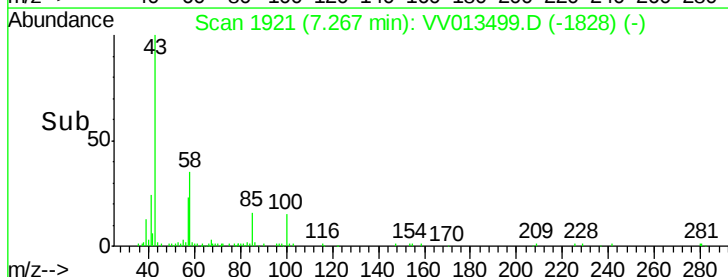
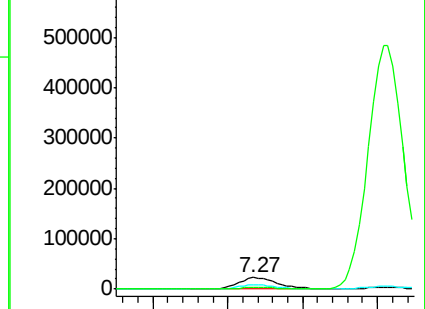
100 15.8 12.2 18.2

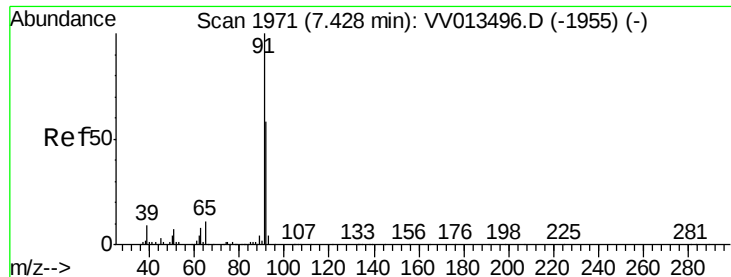


Abundance Ion 43.00 (42.70 to 43.70): VV013496.D (-1905) (-)

Ion 58.00 (57.70 to 58.70): VV013496.D (-1905) (-)

Ion 100.00 (99.70 to 100.70): VV013496.D (-1905) (-)





#42

Toluene

Concen: 2.555 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tgt Ion: 91 Resp: 75424

Ion Ratio Lower Upper

91 100

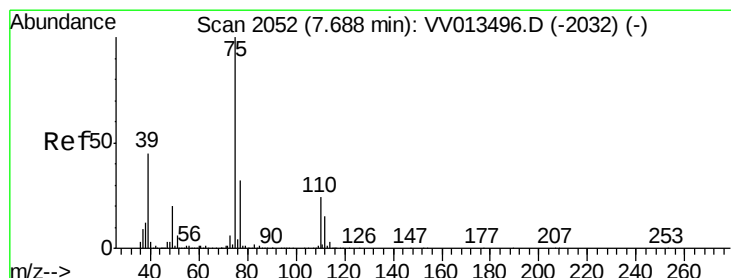
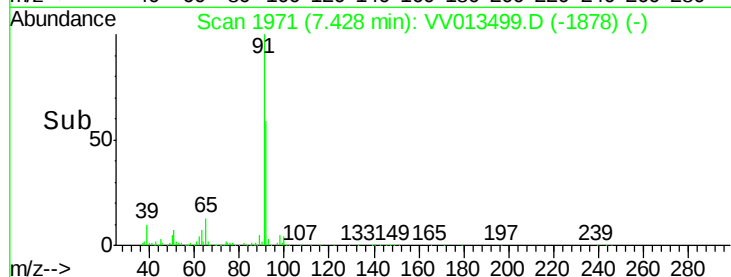
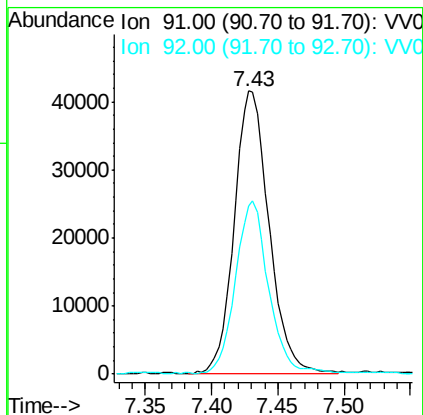
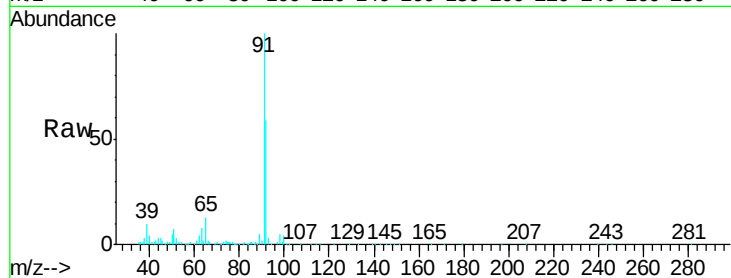
92 59.4 41.3 76.7

Manual Integrations

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#44

trans-1,3-Dichloropropene

Concen: 2.640 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV013499.D

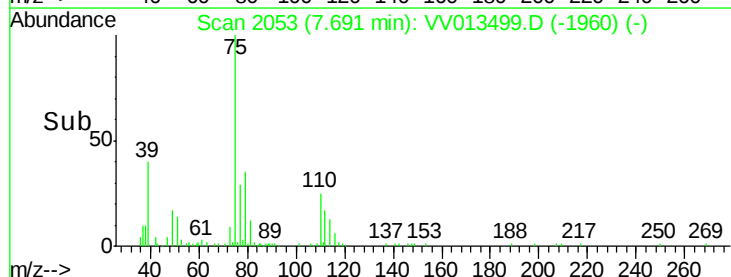
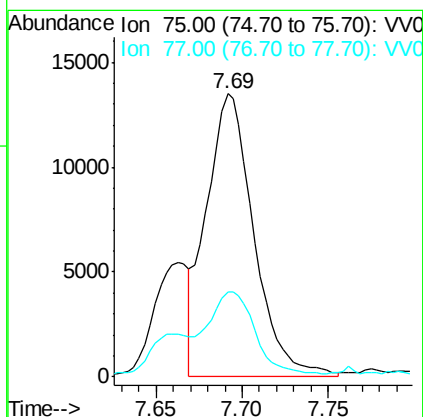
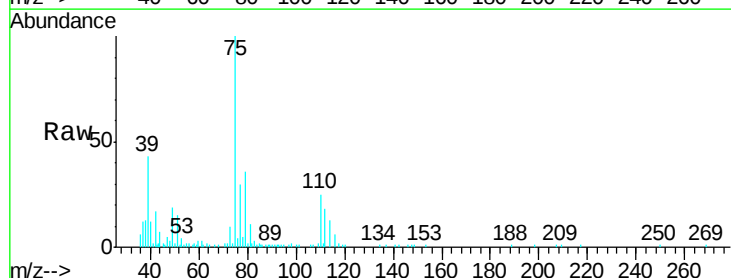
Acq: 06 Nov 2019 15:36

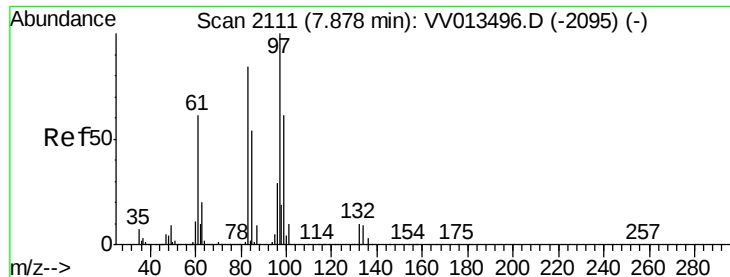
Tgt Ion: 75 Resp: 26021

Ion Ratio Lower Upper

75 100

77 30.0 22.0 41.0





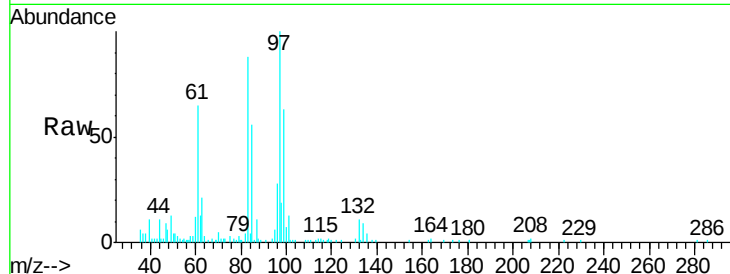
#45
1,1,2-Trichloroethane
Concen: 2.474 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion:	97	Resp:	17273
Ion	Ratio	Lower	Upper
97	100		
99	63.2	43.8	81.4
83	88.1	59.1	109.9
85	56.0	38.8	72.0

Manual Integrations
APPROVED

MMDadoda
11/7/2019 10:49:38 AM

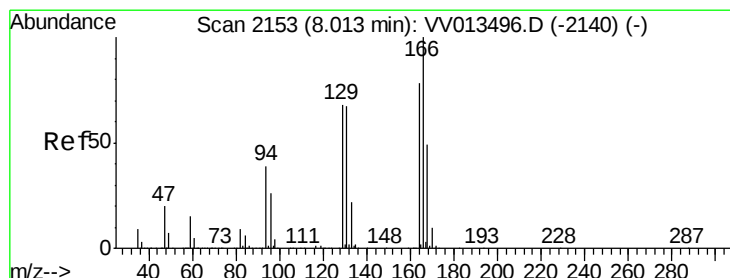
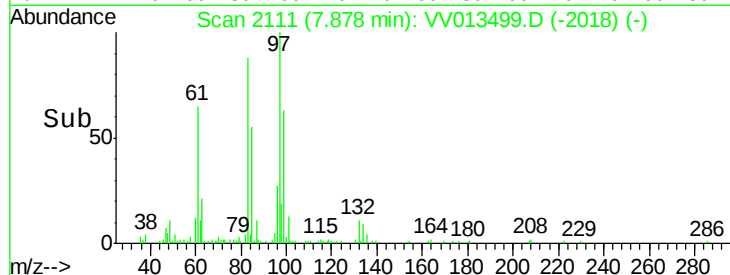
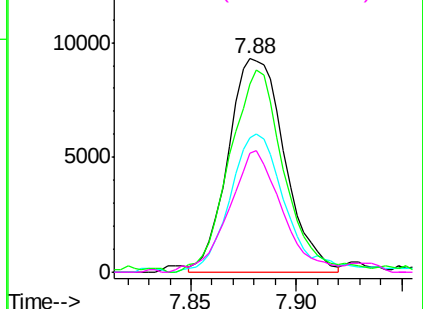


Abundance Ion 97.00 (96.70 to 97.70): VV013499.D (-2018) (-)

Ion 99.00 (98.70 to 99.70): VV013499.D (-2018) (-)

Ion 83.00 (82.70 to 83.70): VV013499.D (-2018) (-)

Ion 85.00 (84.70 to 85.70): VV013499.D (-2018) (-)



#46
Tetrachloroethene
Concen: 2.462 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

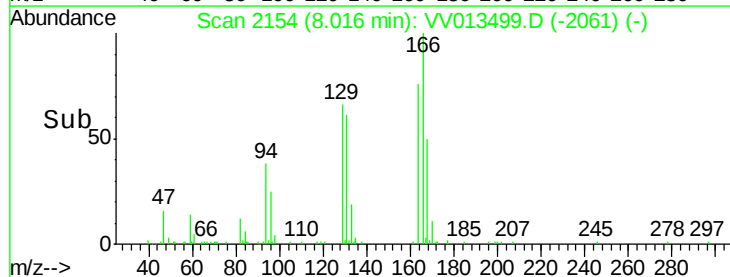
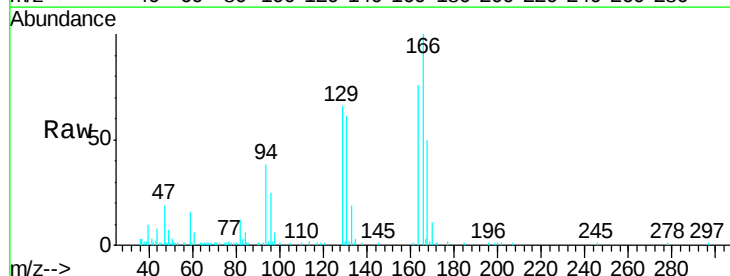
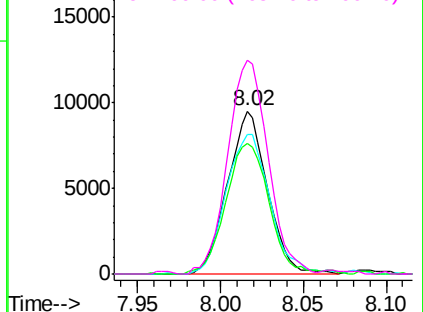
Tgt Ion:	164	Resp:	15817
Ion	Ratio	Lower	Upper
164	100		
129	85.9	61.5	114.3
131	79.9	60.6	112.6
166	131.0	90.2	167.6

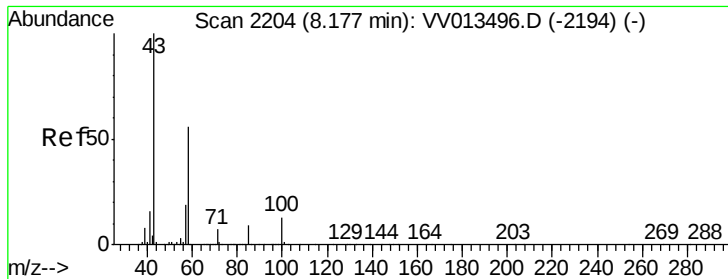
Abundance Ion 164.00 (163.70 to 164.70): VV013499.D (-2061) (-)

Ion 129.00 (128.70 to 129.70): VV013499.D (-2061) (-)

Ion 131.00 (130.70 to 131.70): VV013499.D (-2061) (-)

Ion 166.00 (165.70 to 166.70): VV013499.D (-2061) (-)





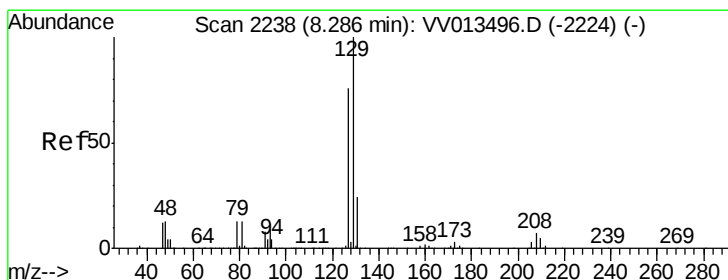
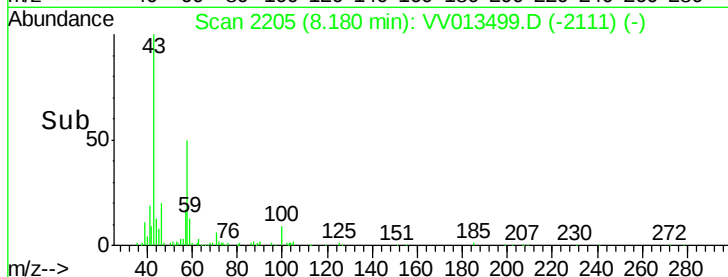
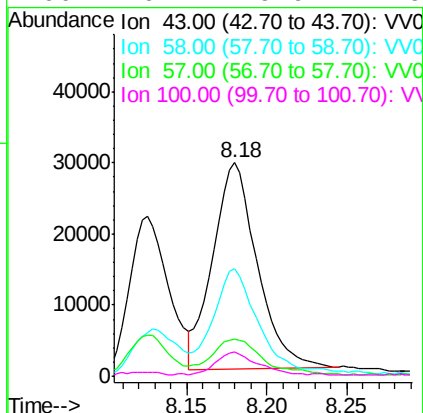
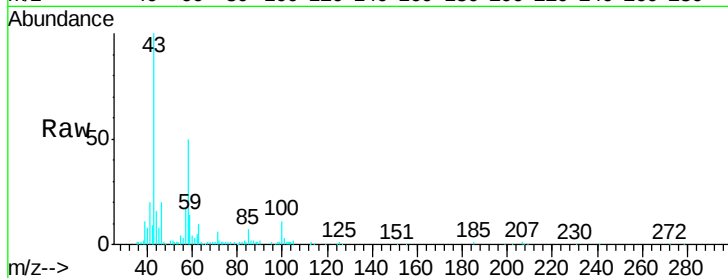
#48
2-Hexanone
Concen: 7.290 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion:	43	Resp:	55326
Ion	Ratio	Lower	Upper
43	100		
58	46.5	43.4	65.0
57	20.5	15.2	22.8
100	10.1	9.9	14.9

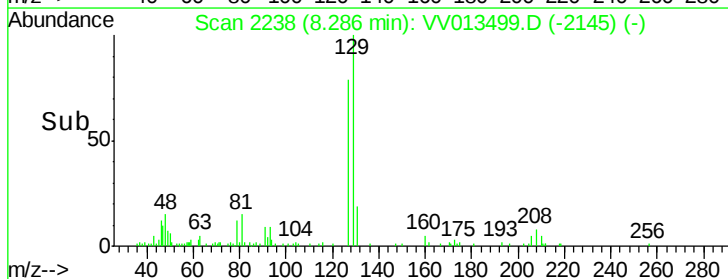
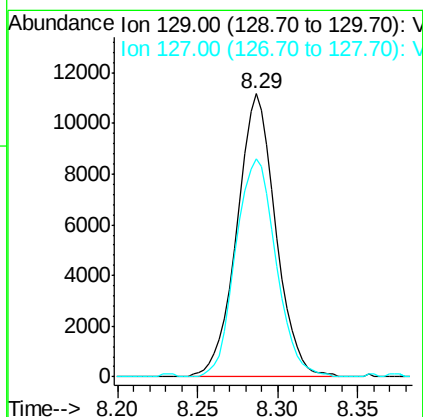
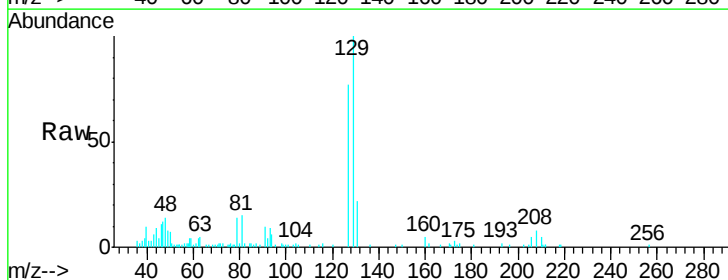
Manual Integrations
APPROVED

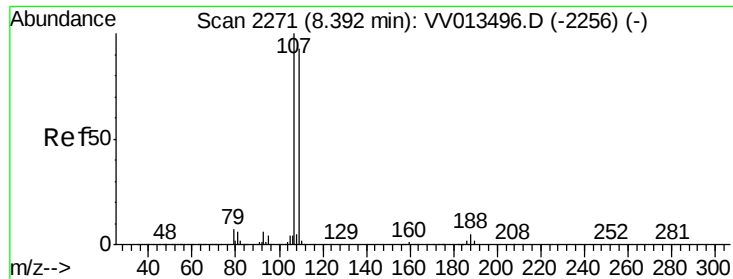
MMDadoda
11/7/2019 10:49:38 AM



#49
Dibromochloromethane
Concen: 2.302 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Tgt Ion:	129	Resp:	18477
Ion	Ratio	Lower	Upper
129	100		
127	77.3	52.5	97.5





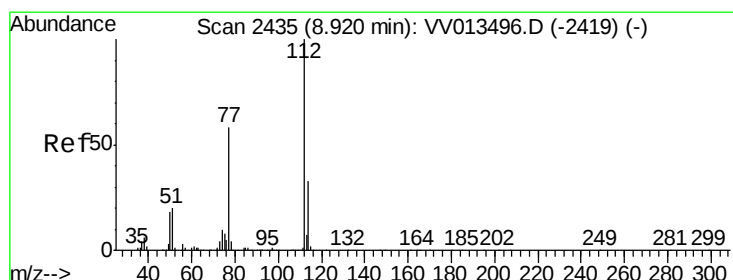
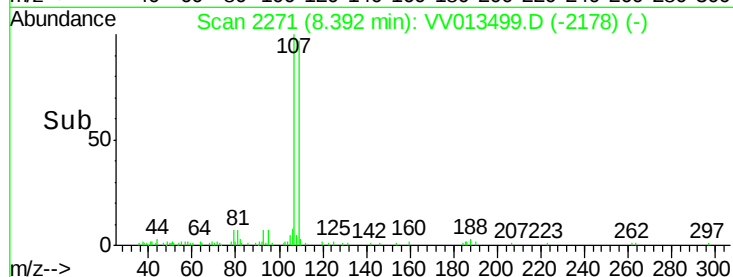
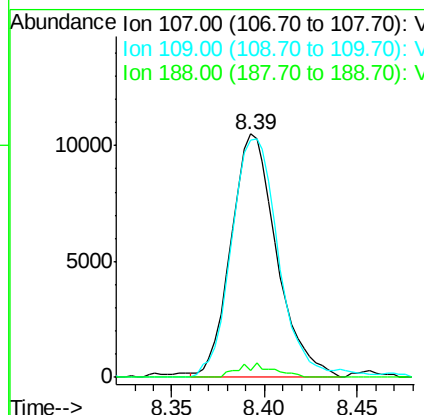
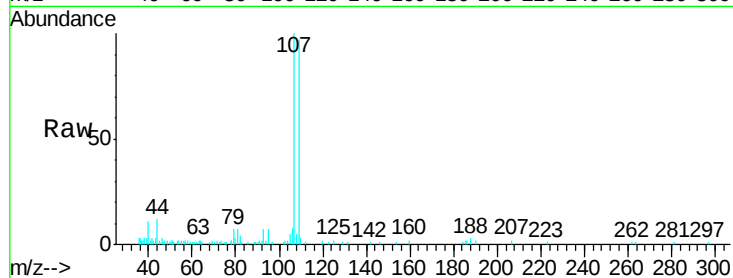
#50
1,2-Dibromoethane
Concen: 2.464 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	18053		
109	97.3	65.7	122.1	
188	3.0	3.5	5.3#	

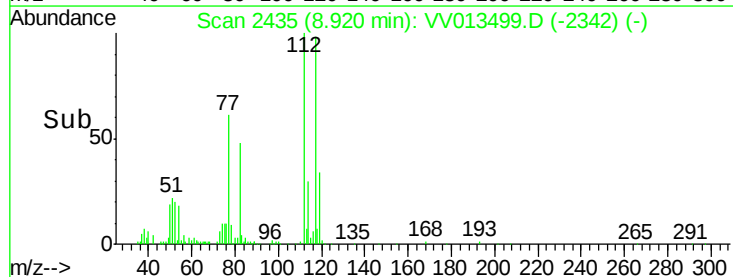
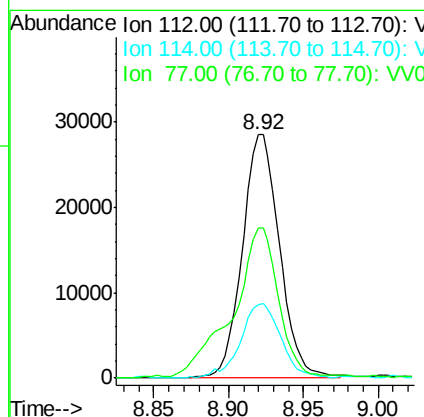
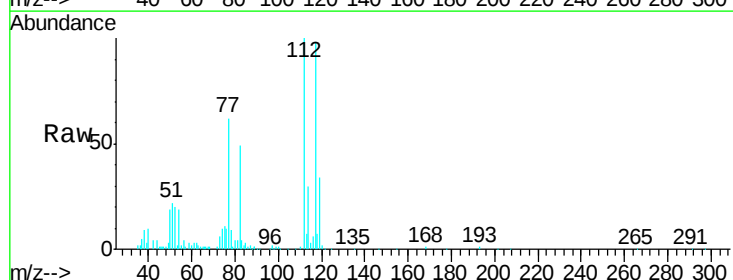
Manual Integrations
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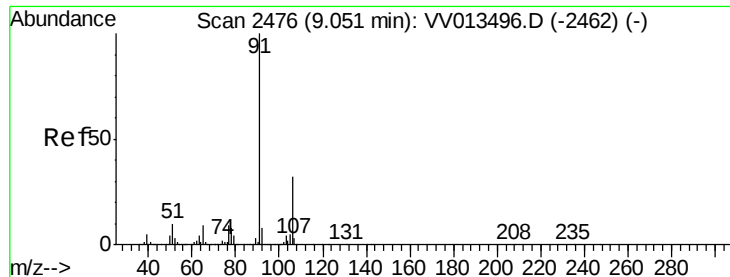
MMDadoda
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#51
Chlorobenzene
Concen: 2.524 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	49506		
114	30.3	22.8	42.4	
77	61.6	46.7	70.1	





#52

Ethylbenzene

Concen: 2.326 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

ClientSampleID :

MDL02

Tgt Ion: 91 Resp: 74507

Ion Ratio Lower Upper

91 100

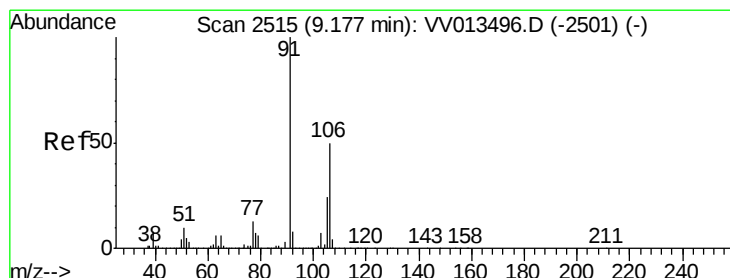
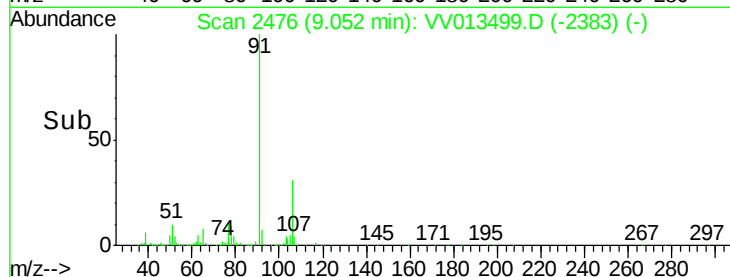
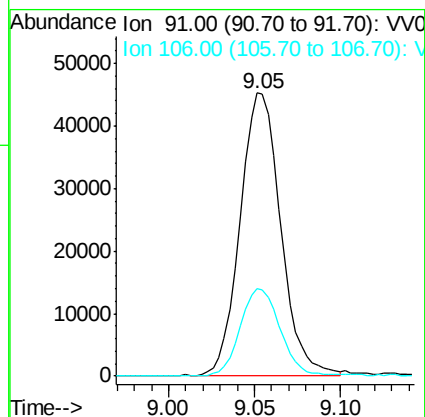
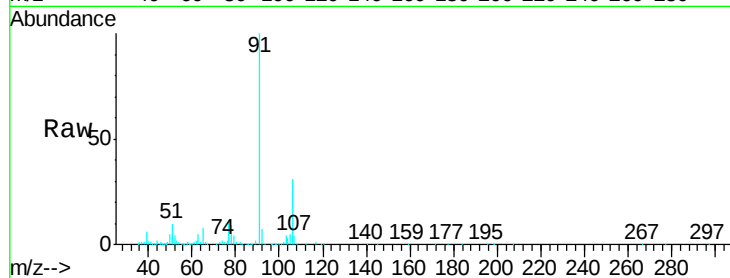
106 30.8 22.0 40.8

Manual Integrations

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MMDadoda

11/7/2019 10:49:38 AM



#53

m,p-Xylene

Concen: 2.138 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013499.D

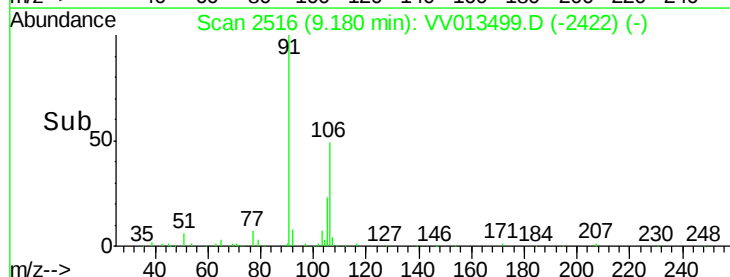
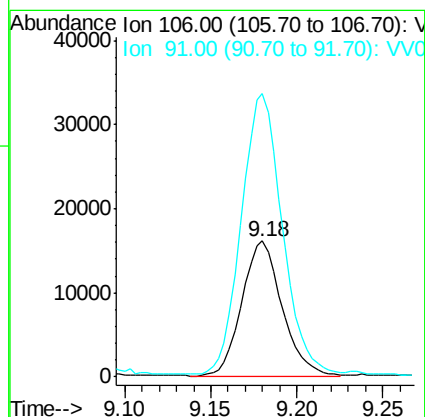
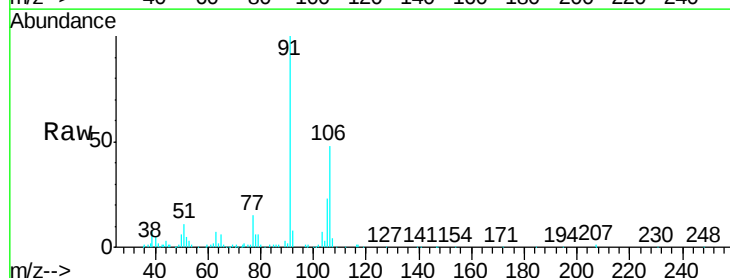
Acq: 06 Nov 2019 15:36

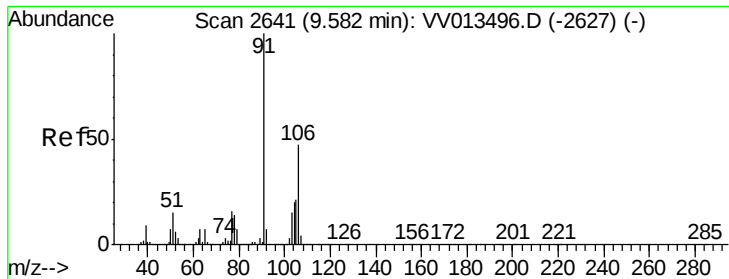
Tgt Ion: 106 Resp: 25990

Ion Ratio Lower Upper

106 100

91 208.8 141.6 263.0





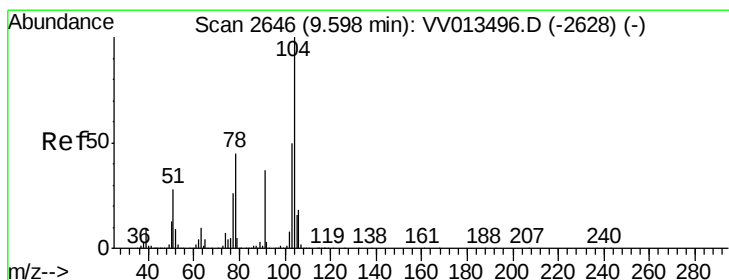
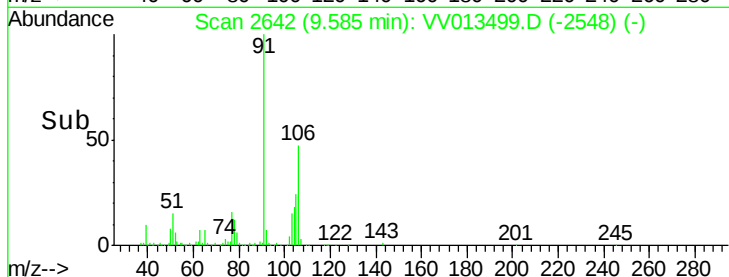
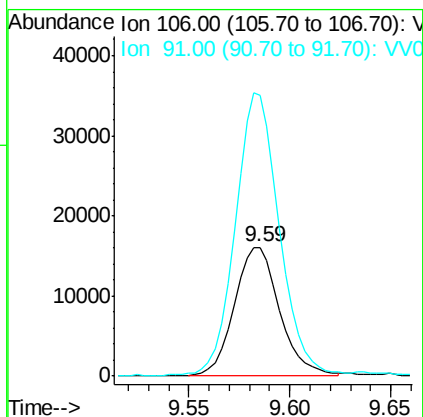
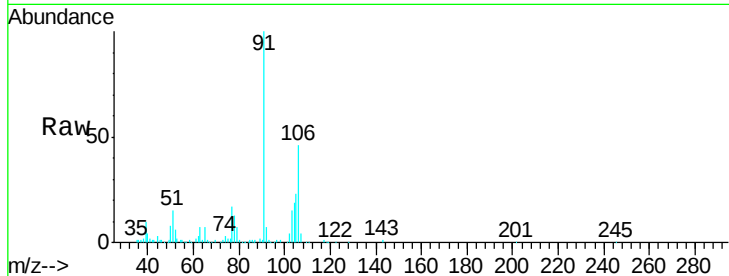
#54
o-xylene
Concen: 2.171 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion:106 Resp: 25306
Ion Ratio Lower Upper
106 100
91 217.8 147.2 273.4

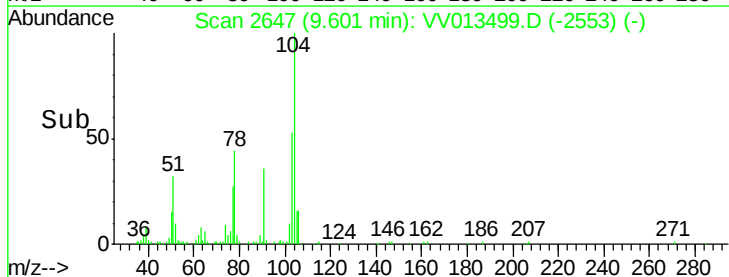
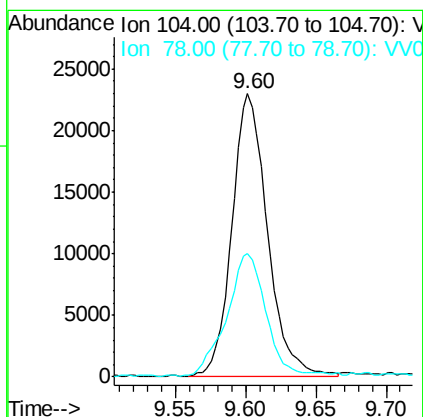
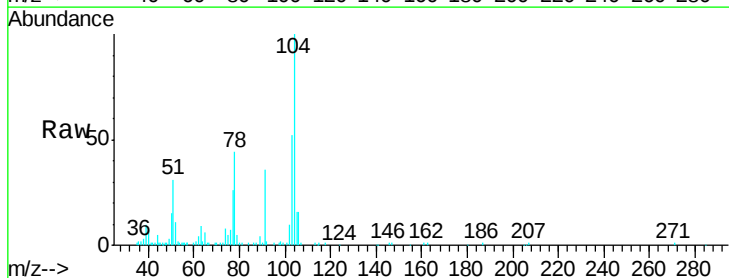
Manual Integrations
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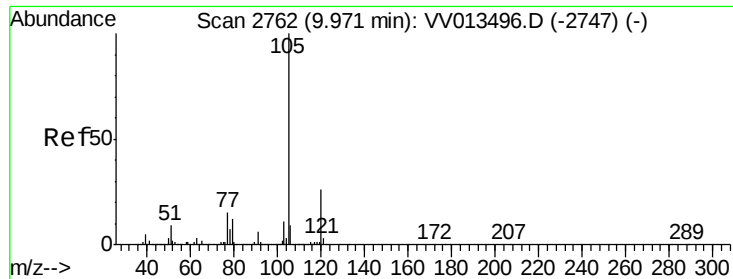
MMDadoda
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#55
Styrene
Concen: 2.022 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Tgt Ion:104 Resp: 40749
Ion Ratio Lower Upper
104 100
78 43.7 30.9 57.3





#56

Isopropylbenzene

Concen: 2.126 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

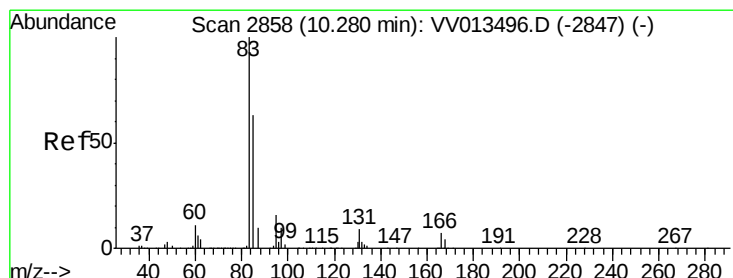
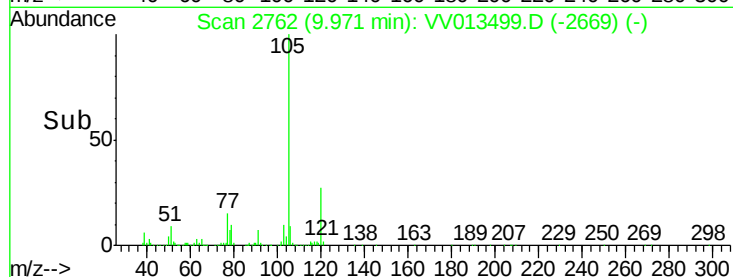
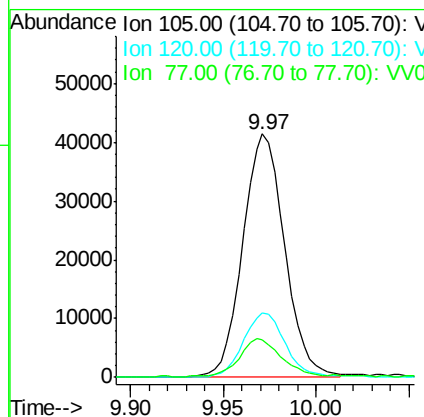
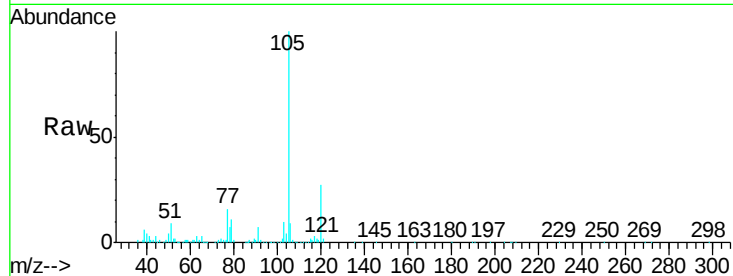
ClientSampled :

MDL02

Tgt Ion:	105	Resp:	65091
Ion Ratio	Lower	Upper	
105	100		
120	26.5	21.1	31.7
77	15.8	12.2	18.4

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#58

1,1,2,2-Tetrachloroethane

Concen: 2.518 ug/L

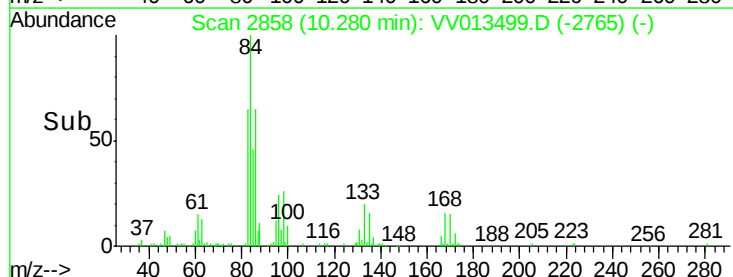
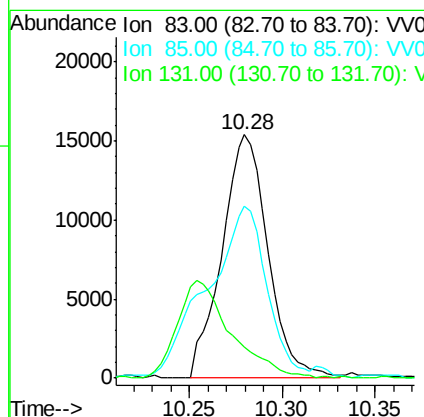
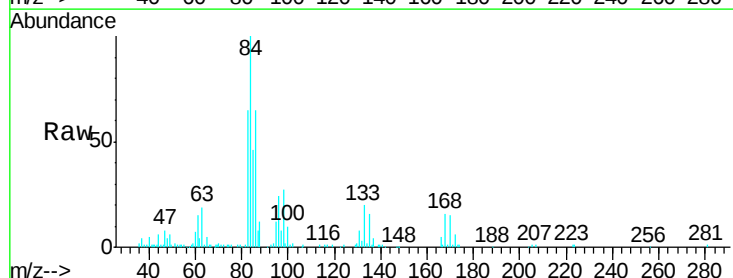
RT: 10.28 min Scan# 2858

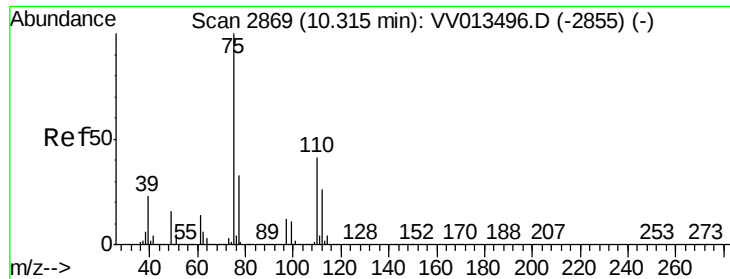
Delta R.T. -0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Tgt Ion:	83	Resp:	26542
Ion Ratio	Lower	Upper	
83	100		
85	70.8	44.0	81.6
131	12.9	7.7	11.5#





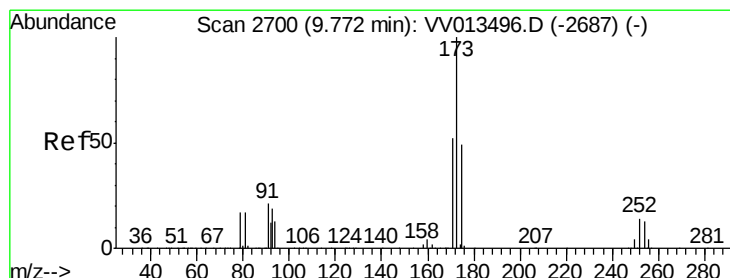
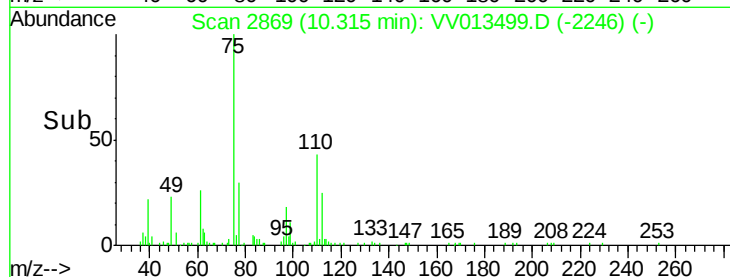
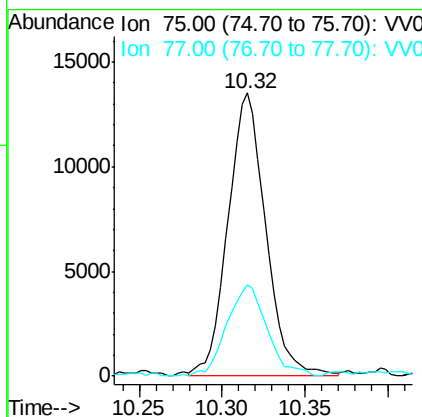
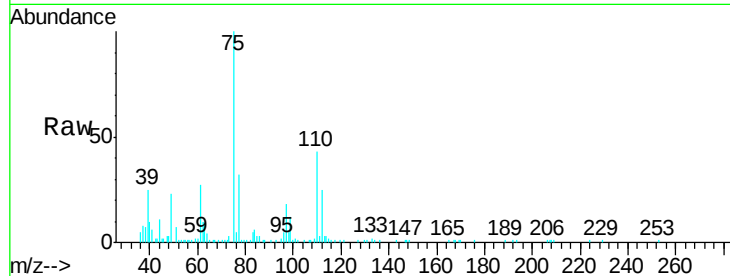
#59
1,2,3-Trichloropropane
Concen: 2.445 ug/L
RT: 10.32 min Scan# 2869
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion: 75 Resp: 21462
Ion Ratio Lower Upper
75 100
77 34.1 25.4 38.2

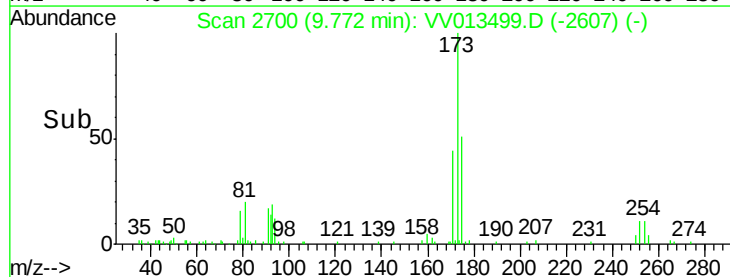
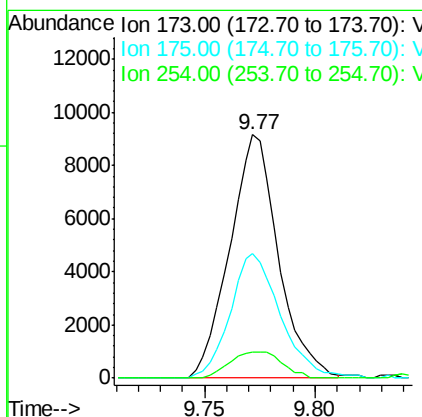
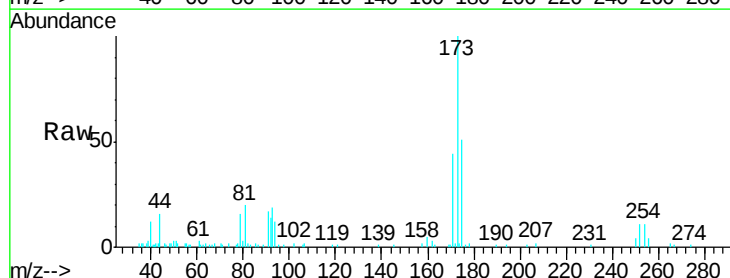
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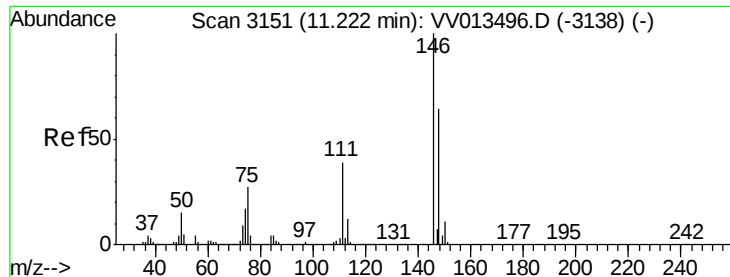
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#61
Bromoform
Concen: 2.508 ug/L
RT: 9.77 min Scan# 2700
Delta R.T. -0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Tgt Ion: 173 Resp: 14026
Ion Ratio Lower Upper
173 100
175 52.5 39.0 58.4
254 11.5 10.2 15.2





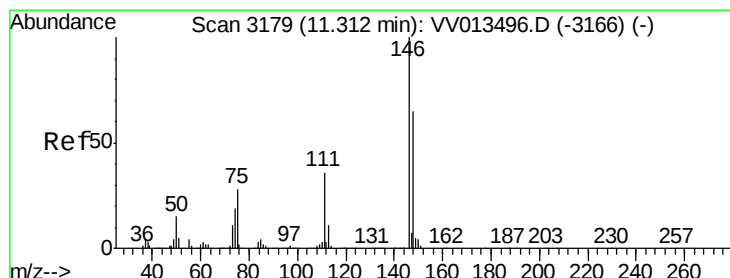
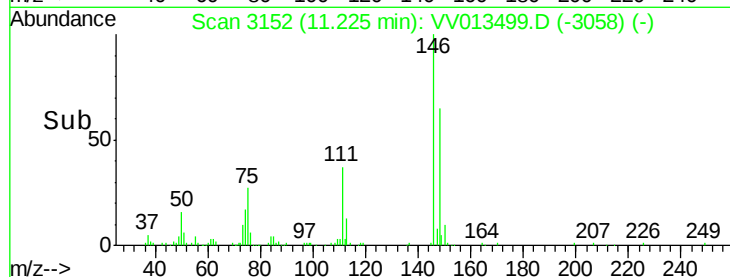
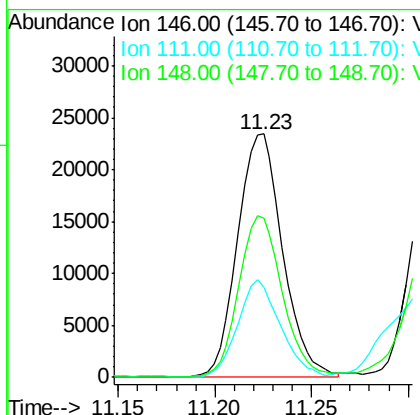
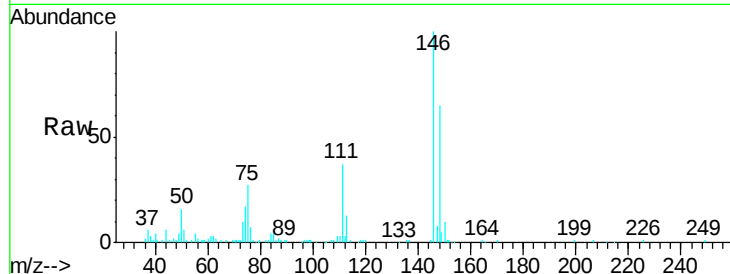
#62
 1,3-Dichlorobenzene
 Concen: 2.636 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV013499.D
 Acq: 06 Nov 2019 15:36

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	26.4	49.0
148	65.2	44.4	82.4

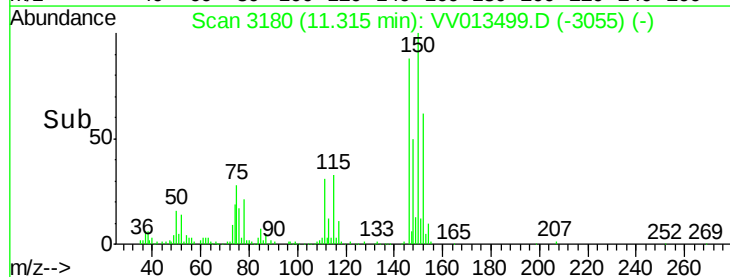
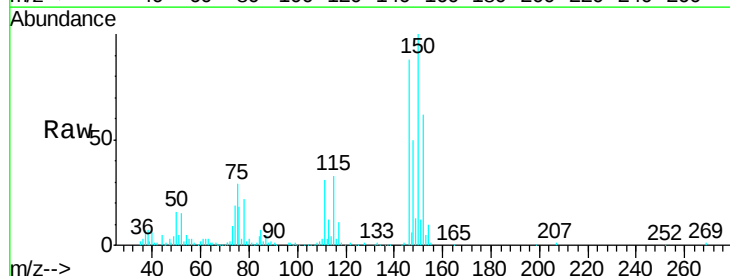
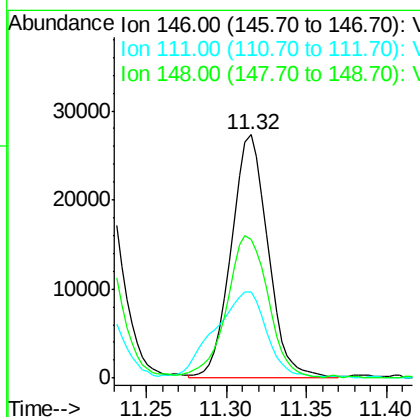
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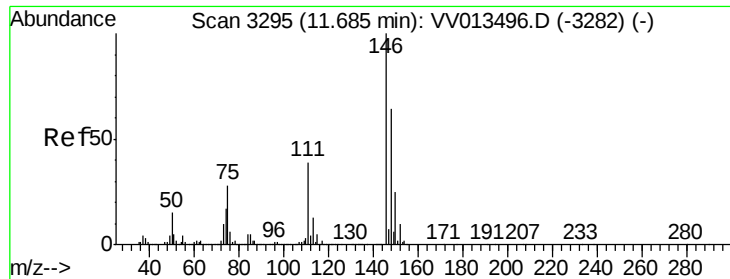
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#63
 1,4-Dichlorobenzene
 Concen: 2.858 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV013499.D
 Acq: 06 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.2	25.5	47.3
148	56.7	44.9	83.5





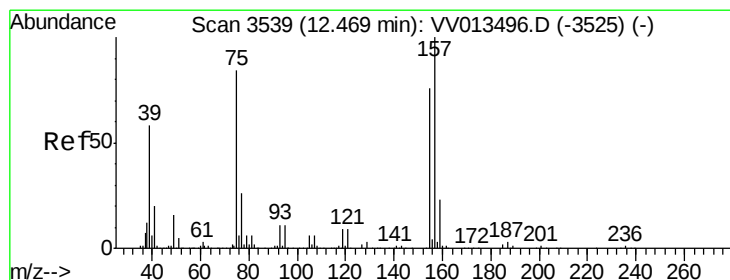
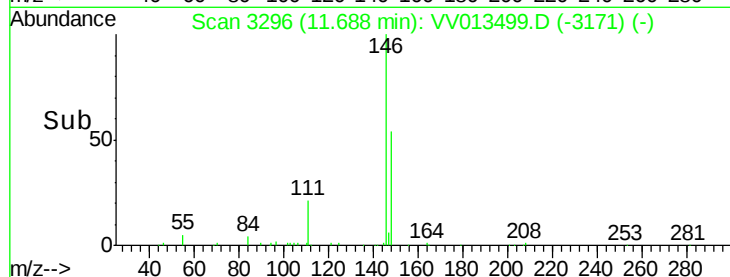
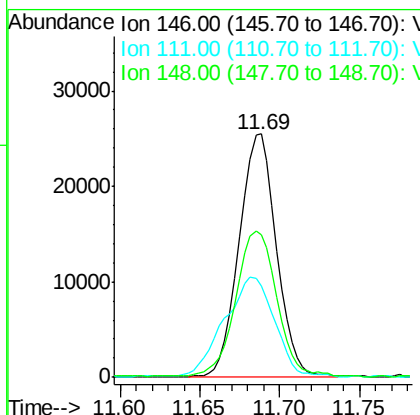
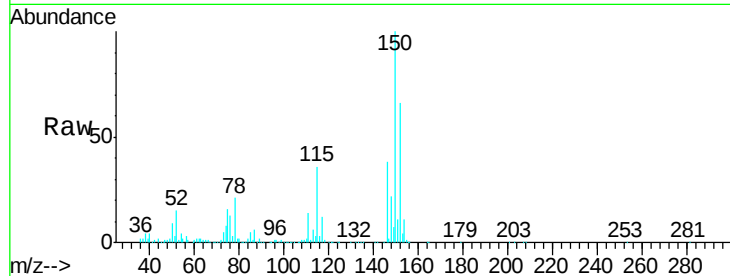
#65
1,2-Dichlorobenzene
Concen: 2.801 ug/L
RT: 11.69 min Scan# 3296
Delta R.T. 0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	32.1	48.1
148	58.7	52.0	78.0

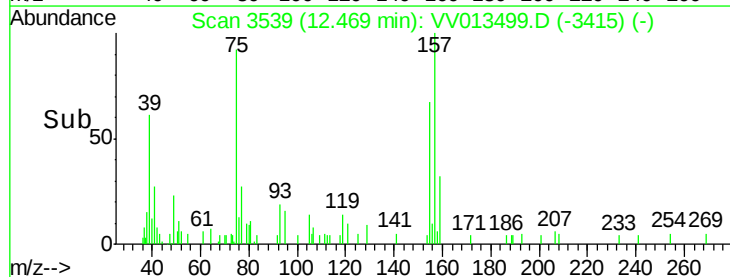
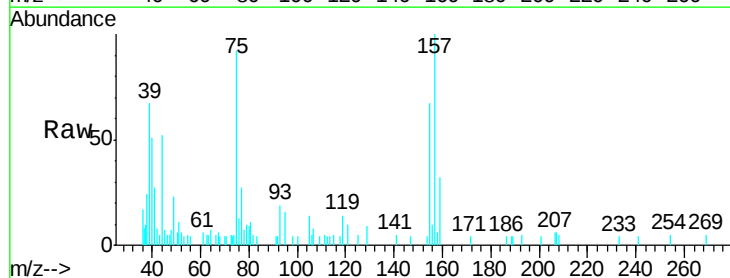
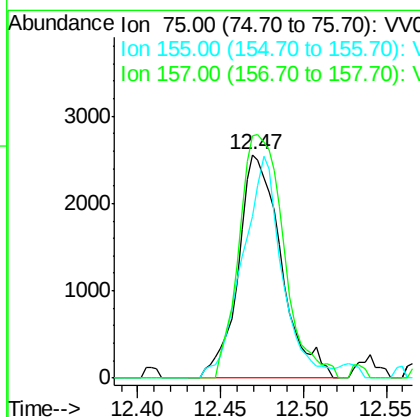
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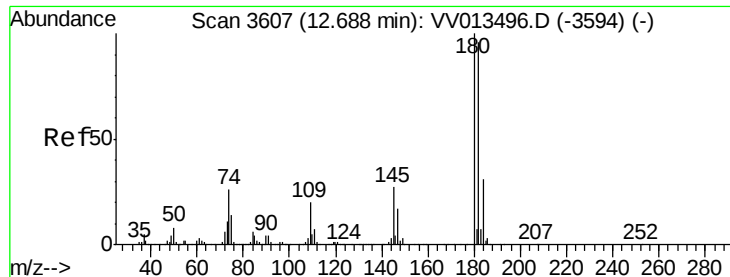
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#66
1,2-Dibromo-3-chloropropane
Concen: 2.306 ug/L
RT: 12.47 min Scan# 3539
Delta R.T. -0.00 min
Lab File: VV013499.D
Acq: 06 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.4	71.9	107.9
157	108.2	96.6	145.0





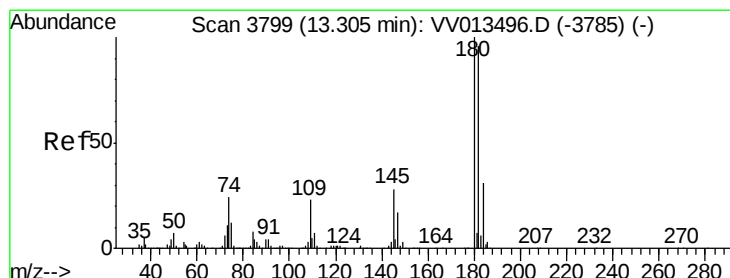
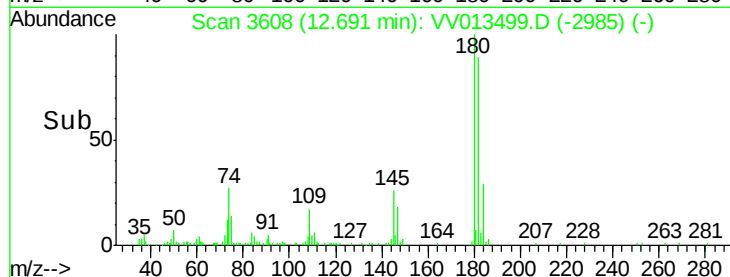
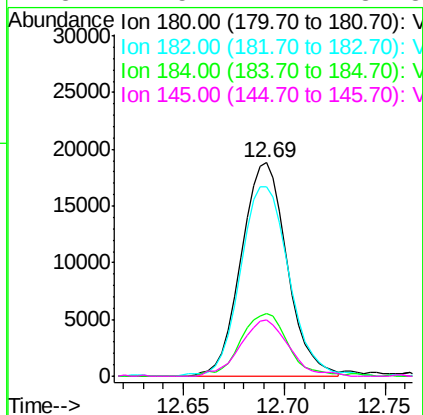
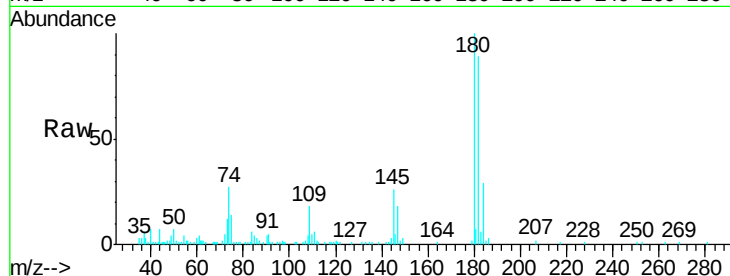
#67
 1,3,5-Trichlorobenzene
 Concen: 2.658 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV013499.D
 Acq: 06 Nov 2019 15:36

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tgt Ion:	180	Resp:	30012
Ion Ratio	Lower	Upper	
180	100		
182	90.9	76.2	114.2
184	30.3	24.3	36.5
145	27.5	21.2	31.8

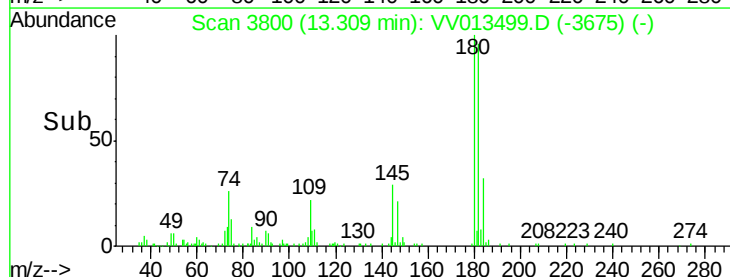
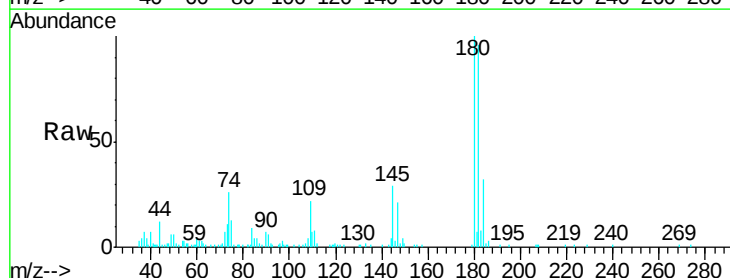
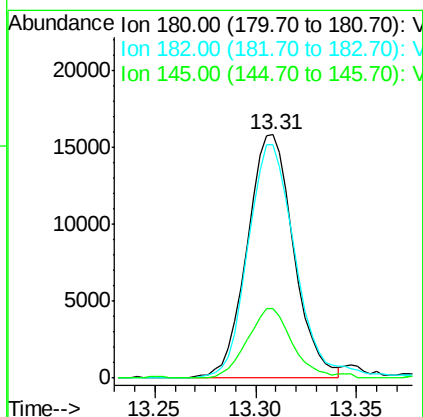
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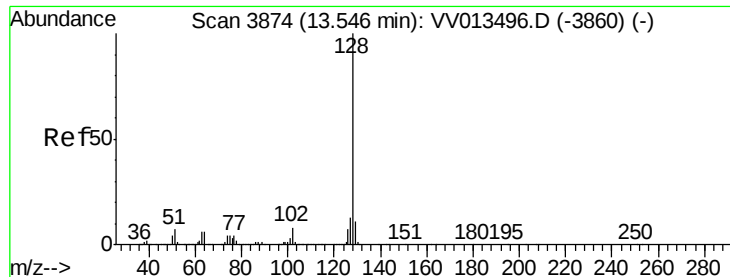
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#68
 1,2,4-trichlorobenzene
 Concen: 2.580 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013499.D
 Acq: 06 Nov 2019 15:36

Tgt Ion:	180	Resp:	25521
Ion Ratio	Lower	Upper	
180	100		
182	98.9	76.4	114.6
145	27.4	22.4	33.6





#69

Naphthalene

Concen: 2.116 ug/L m

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Instrument :

MSVOA_V

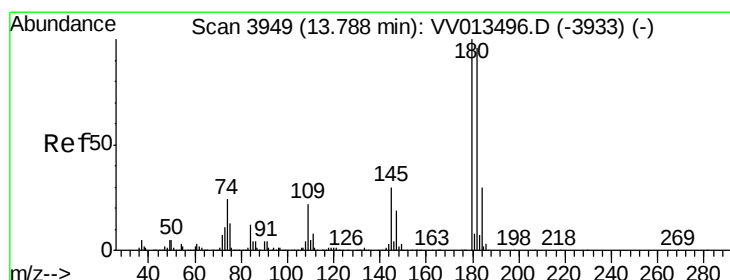
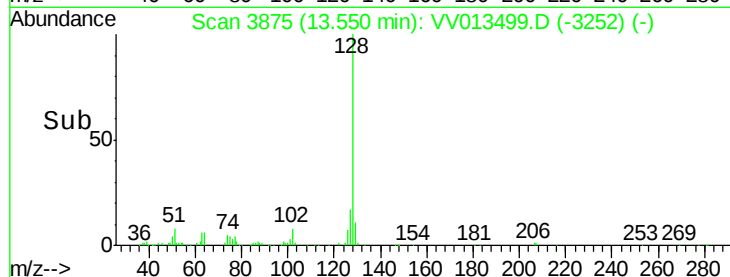
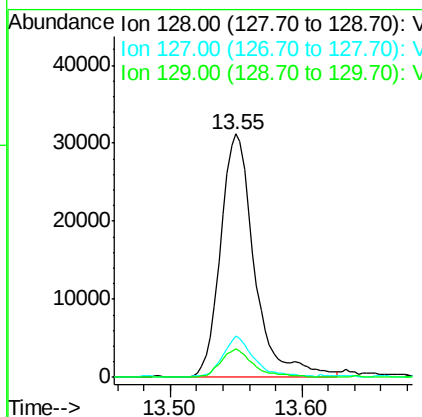
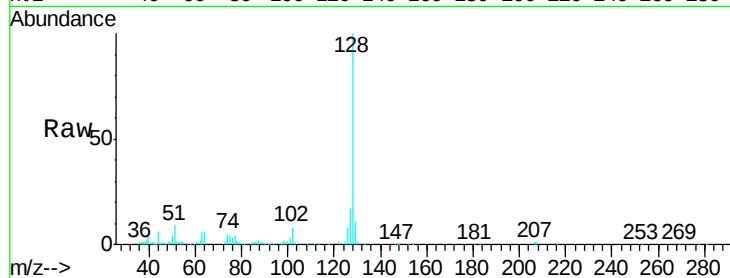
ClientSampleId :

MDL02

Tgt Ion:	128	Resp:	55934
Ion Ratio	Lower	Upper	
128	100		
127	15.8	10.6	15.8
129	11.3	8.6	13.0

Manual Integrations
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#70

1,2,3-Trichlorobenzene

Concen: 2.455 ug/L m

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV013499.D

Acq: 06 Nov 2019 15:36

Tgt Ion:	180	Resp:	25797
Ion Ratio	Lower	Upper	
180	100		
182	94.1	77.4	116.0
145	30.4	24.0	36.0

