

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV020820\
 Data File : VV014535.D
 Acq On : 07 Feb 2020 13:44
 Operator : SY/MD
 Sample : MDL03
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 2/10/2020 11:56:31 AM

Quant Time: Feb 08 00:45:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Sat Feb 08 00:03:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	349455	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	328147	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	162289	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	81925	43.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.46%
7) Chloroethane-d5	1.58	69	57253	43.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.68%
11) 1,1-Dichloroethene-d2	2.13	63	99721	34.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.30%
21) 2-Butanone-d5	3.92	46	147907	101.11	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.11%
24) Chloroform-d	4.40	84	205417	47.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.14%
26) 1,2-Dichloroethane-d4	5.08	65	133656	50.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.42%
32) Benzene-d6	5.10	84	443004	48.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.50%
36) 1,2-Dichloropropane-d6	6.11	67	135983	48.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.60%
41) Toluene-d8	7.36	98	415906	49.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.42%
43) trans-1,3-Dichloropropene-	7.66	79	72153	48.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.58%
47) 2-Hexanone-d5	8.13	63	122329	103.20	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.20%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	182661	50.48	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.96%
66) 1,2-Dichlorobenzene-d4	11.67	152	158701	50.99	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.98%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	7093	2.534	ug/L	99
3) Chloromethane	1.26	50	7019	2.476	ug/L	97
5) Vinyl chloride	1.32	62	4630	2.133	ug/L #	58
6) Bromomethane	1.53	94	2186	2.190	ug/L	94
8) Chloroethane	1.60	64	2612	2.421	ug/L	95
9) Trichlorofluoromethane	1.77	101	7005	2.395	ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4366	3.109	ug/L #	80
12) 1,1-Dichloroethene	2.14	96	4144	3.085	ug/L #	1
13) Acetone	2.19	43	6639	5.420	ug/L	91
14) Carbon disulfide	2.32	76	14647	2.246	ug/L	97
15) Methyl Acetate	2.46	43	5732	2.434	ug/L	98
16) Methylene chloride	2.54	84	7053	2.765	ug/L	93
17) trans-1,2-Dichloroethene	2.79	96	5558	2.349	ug/L	96
18) Methyl tert-butyl Ether	2.80	73	18075	2.412	ug/L	97
19) 1,1-Dichloroethane	3.23	63	10235	2.419	ug/L	96
20) cis-1,2-Dichloroethene	3.96	96	6304	2.367	ug/L	100
22) 2-Butanone	4.03	43	8406m	4.640	ug/L	

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Manual Integrations
 APPROVED

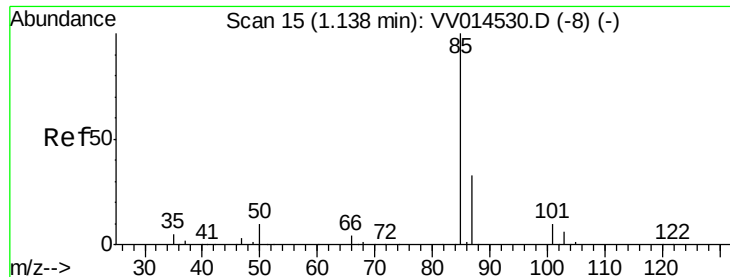
MMDadoda
 2/10/2020 11:56:31 AM

Quant Time: Feb 08 00:45:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Sat Feb 08 00:03:07 2020
 Response via : Initial Calibration

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

23) Bromochloromethane	4.31	128	3178	2.520	ug/L	85
25) Chloroform	4.43	83	17167	3.990	ug/L	99
27) 1,2-Dichloroethane	5.18	62	7677	2.395	ug/L	98
29) Cyclohexane	4.72	56	8830	2.189	ug/L	96
30) 1,1,1-Trichloroethane	4.66	97	9213	2.460	ug/L	99
31) Carbon tetrachloride	4.88	117	7987	2.417	ug/L	97
33) Benzene	5.15	78	23425	2.428	ug/L	100
34) Trichloroethene	5.96	95	5599	2.190	ug/L	94
35) Methylcyclohexane	6.17	83	9702	2.322	ug/L	98
37) 1,2-Dichloropropane	6.22	63	5806	2.363	ug/L #	95
38) Bromodichloromethane	6.55	83	7769	2.356	ug/L	95
39) cis-1,3-Dichloropropene	7.07	75	10192	2.486	ug/L	91
40) 4-Methyl-2-pentanone	7.27	43	14325	4.511	ug/L	99
42) Toluene	7.43	91	24782	2.396	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	8768	2.386	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	5843	2.479	ug/L	96
46) Tetrachloroethene	8.02	164	4491	2.302	ug/L	90
48) 2-Hexanone	8.18	43	12442	5.090	ug/L #	93
49) Dibromochloromethane	8.29	129	6104	2.293	ug/L	96
50) 1,2-Dibromoethane	8.39	107	6106	2.391	ug/L #	97
51) Chlorobenzene	8.92	112	17162	2.540	ug/L	96
52) Ethylbenzene	9.05	91	27255	2.350	ug/L	98
53) m,p-Xylene	9.18	106	10671	2.388	ug/L	97
54) o-Xylene	9.59	106	10236	2.393	ug/L	99
55) Styrene	9.60	104	16366	2.239	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.28	83	10047	2.719	ug/L	99
59) Bromoform	9.77	173	3981	2.199	ug/L #	95
60) Isopropylbenzene	9.97	105	25976	2.367	ug/L	100
61) 1,2,3-Trichloropropane	10.31	75	7147	2.487	ug/L	97
62) 1,3,5-Trimethylbenzene	10.58	105	21589	2.298	ug/L	97
63) 1,2,4-Trimethylbenzene	10.95	105	20958	2.263	ug/L	97
64) 1,3-Dichlorobenzene	11.22	146	12811	2.475	ug/L	99
65) 1,4-Dichlorobenzene	11.31	146	13610	2.554	ug/L	99
67) 1,2-Dichlorobenzene	11.68	146	12829	2.556	ug/L	92
68) 1,2-Dibromo-3-chloropropan	12.47	75	2150	2.671	ug/L	96
69) 1,3,5-Trichlorobenzene	12.69	180	8575	2.351	ug/L	97
70) 1,2,4-trichlorobenzene	13.31	180	7789	2.326	ug/L	97
71) Naphthalene	13.55	128	25982	2.362	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	7225	2.221	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 2.534 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 85 Resp: 7093

Ion Ratio Lower Upper

85 100

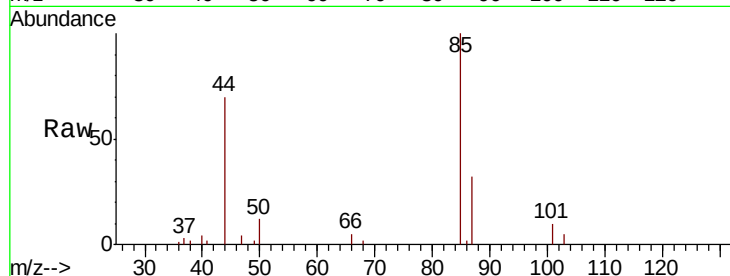
87 31.5 25.7 38.5

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Abundance Ion 85.00 (84.70 to 85.70): VV014530.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014530.D (-8) (-)

1.14

8000

6000

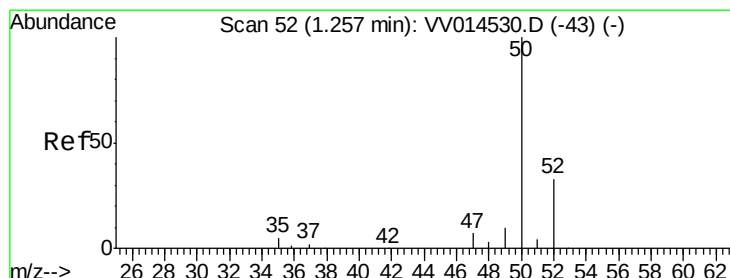
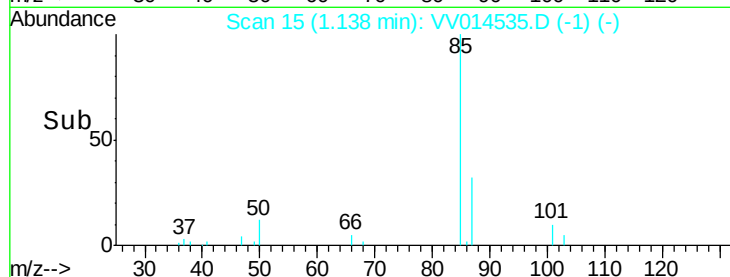
4000

2000

0

1.10 1.12 1.14 1.16 1.18

Time-->



#3

Chloromethane

Concen: 2.476 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014535.D

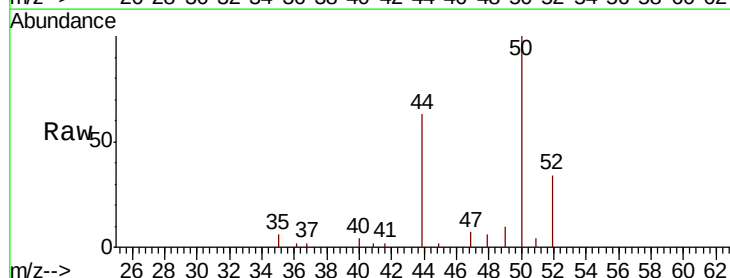
Acq: 07 Feb 2020 13:44

Tgt Ion: 50 Resp: 7019

Ion Ratio Lower Upper

50 100

52 34.1 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV014535.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV014535.D (-1) (-)

1.26

8000

6000

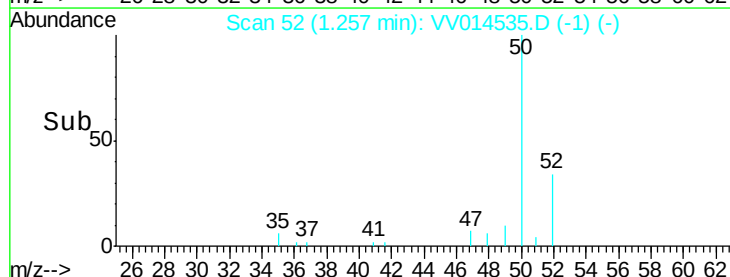
4000

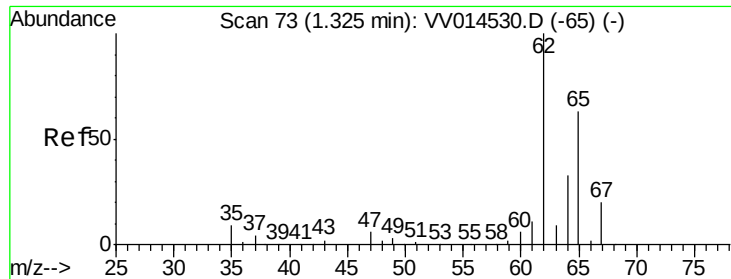
2000

0

1.22 1.24 1.26 1.28 1.30

Time-->





#5

Vinyl chloride

Concen: 2.133 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 62 Resp: 4630

Ion Ratio Lower Upper

62 100

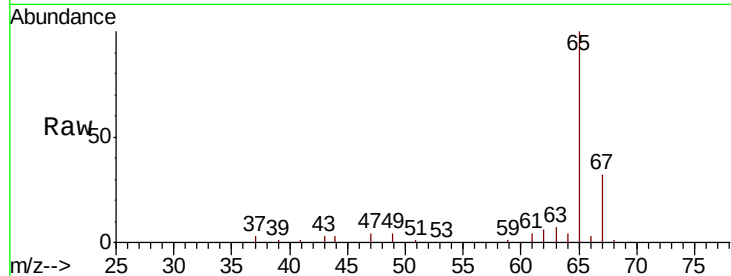
64 56.6 23.1 42.9#

Manual Integrations

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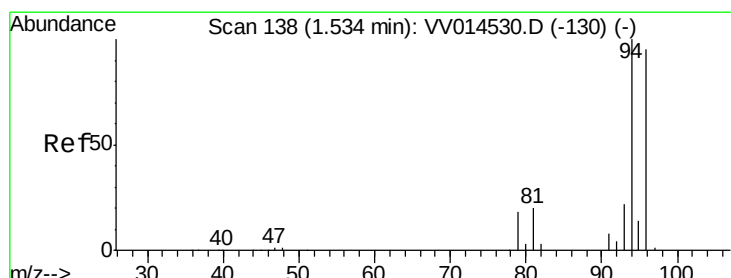
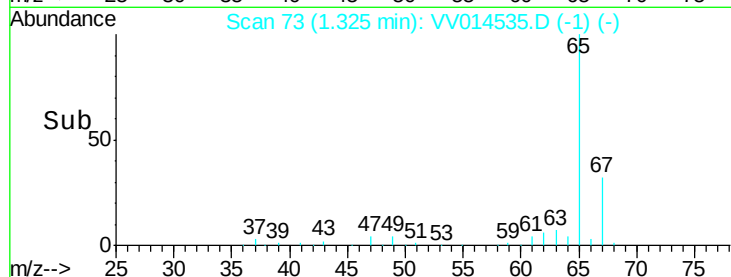
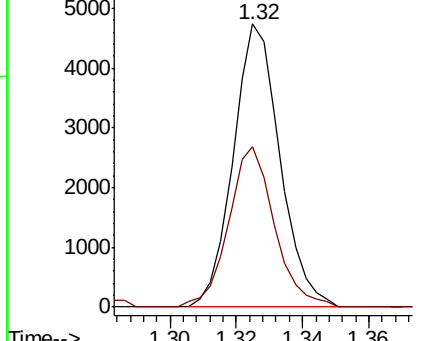
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.190 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV014535.D

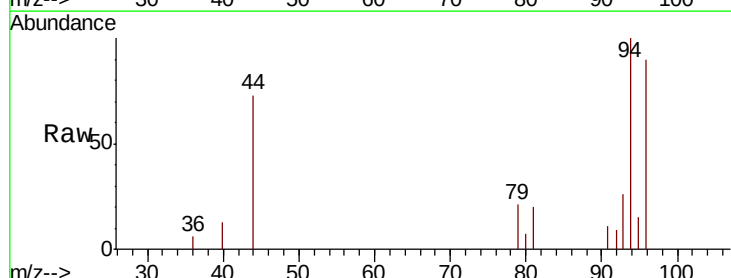
Acq: 07 Feb 2020 13:44

Tgt Ion: 94 Resp: 2186

Ion Ratio Lower Upper

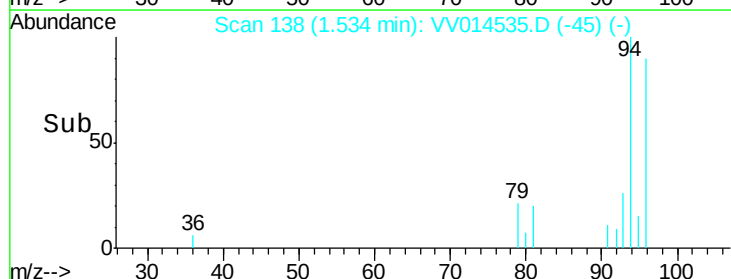
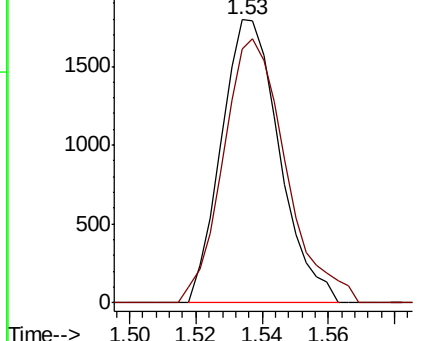
94 100

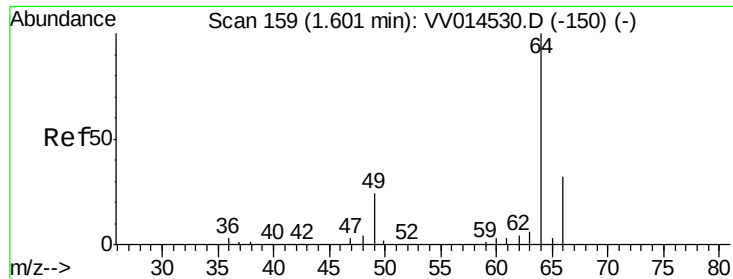
96 89.9 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.421 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 64 Resp: 2612

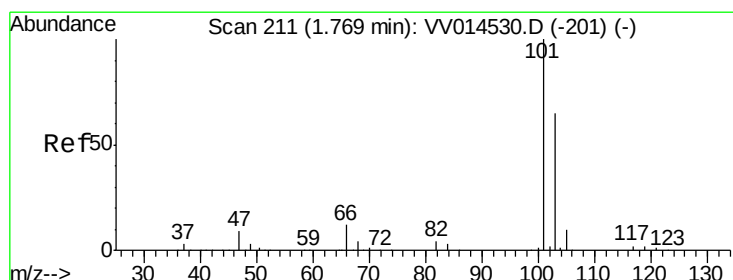
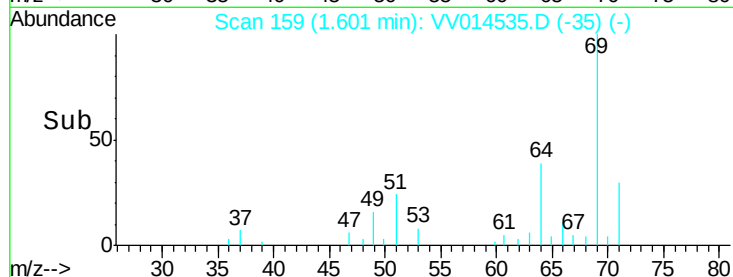
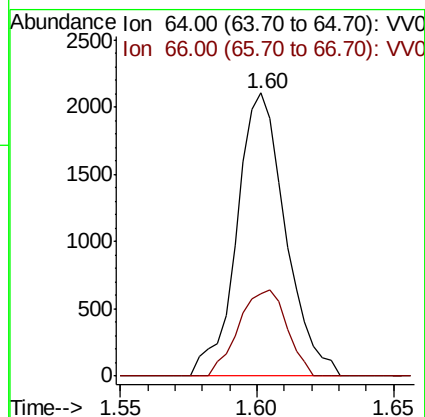
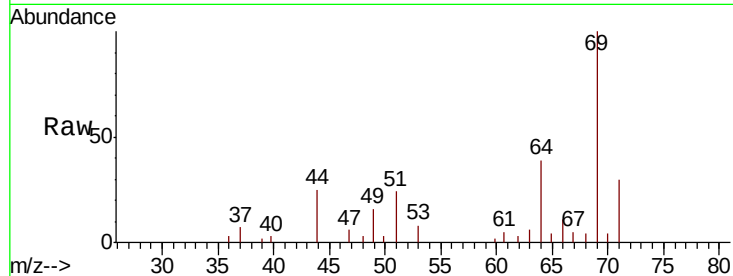
Ion Ratio Lower Upper

64 100

66 29.2 22.4 41.6

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#9

Trichlorofluoromethane

Concen: 2.395 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014535.D

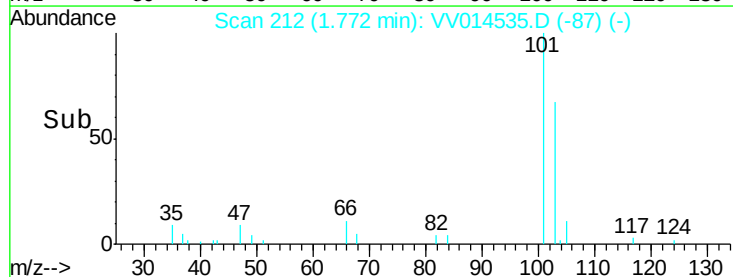
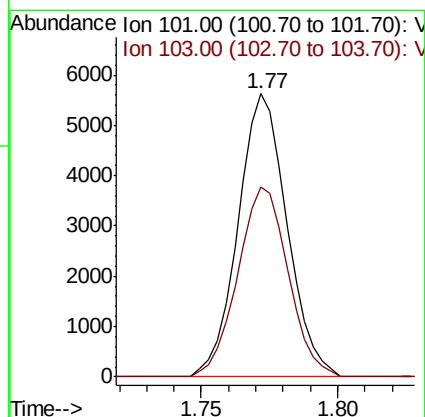
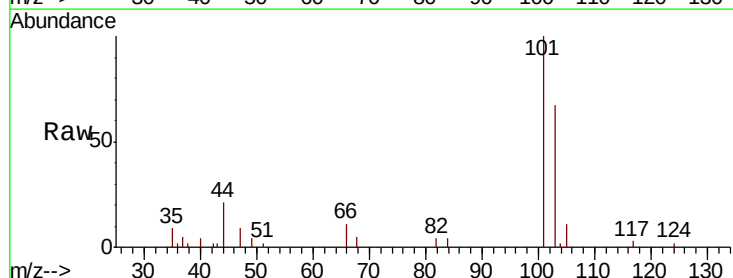
Acq: 07 Feb 2020 13:44

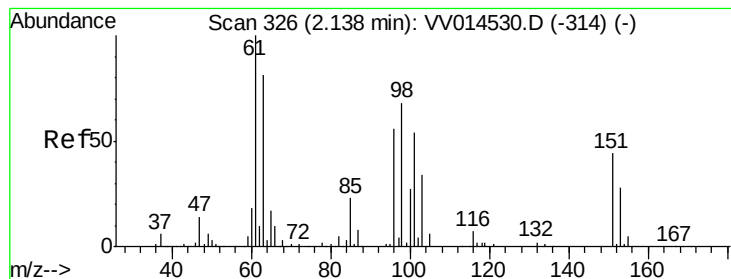
Tgt Ion: 101 Resp: 7005

Ion Ratio Lower Upper

101 100

103 69.0 51.8 77.8





#10

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

Concen: 3.109 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

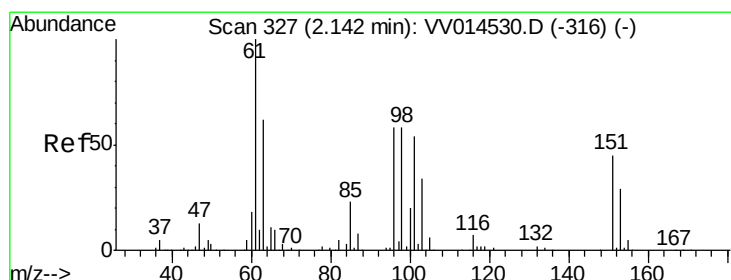
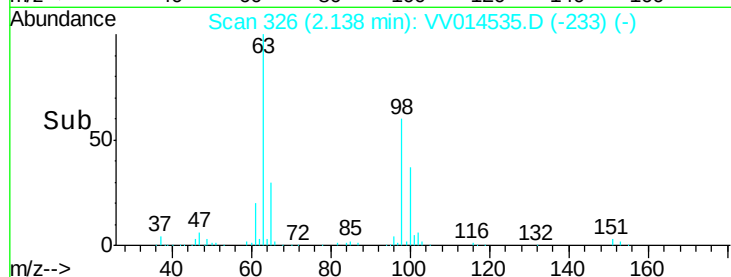
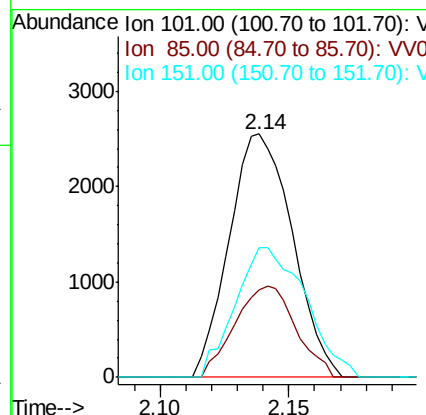
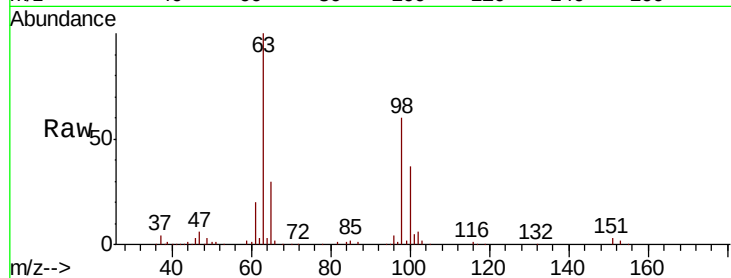
ClientSampled :

MDL03

Tot Ion:	101	Resp:	4366
Ion	Ratio	Lower	Upper
101	100		
85	36.1	35.0	52.6
151	59.1	64.4	96.6#

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#12

1,1-Dichloroethene

Concen: 3.085 ug/L

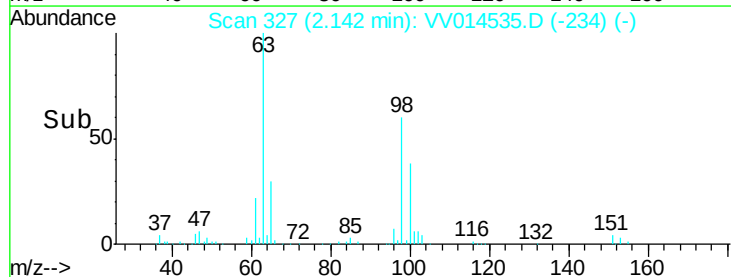
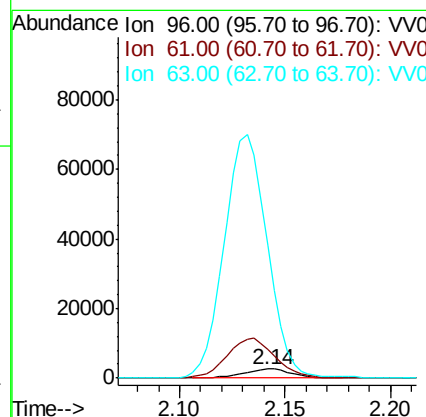
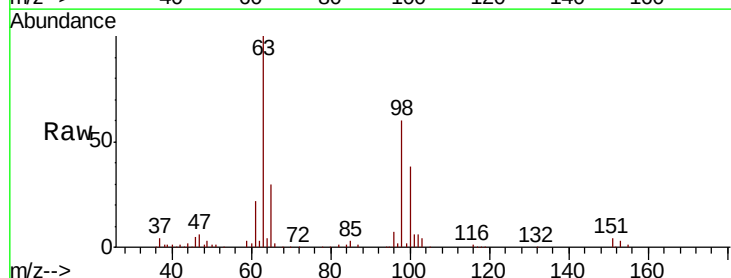
RT: 2.14 min Scan# 327

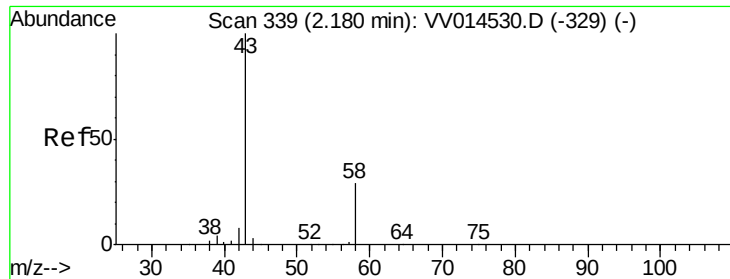
Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Tgt Ion:	96	Resp:	4144
Ion	Ratio	Lower	Upper
96	100		
61	319.9	125.0	232.2#
63	1453.4	101.6	188.6#





#13

Acetone

Concen: 5.420 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 6639

Ion Ratio Lower Upper

43 100

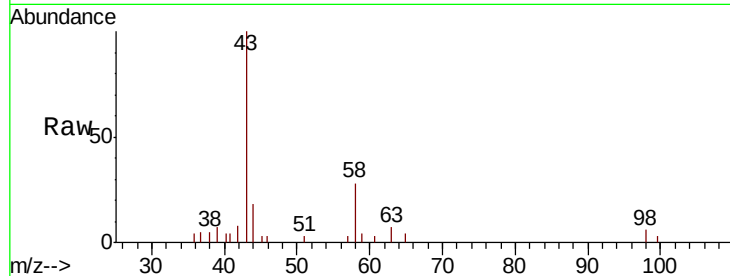
58 25.7 0.0 61.8

Manual Integrations

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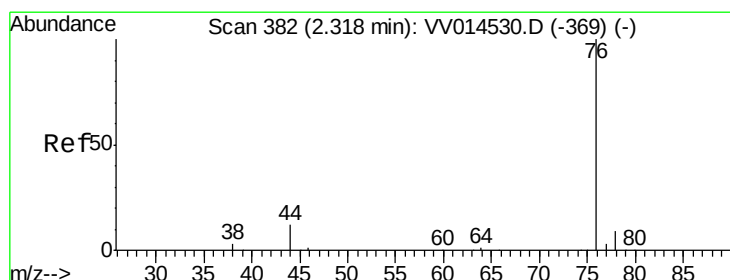
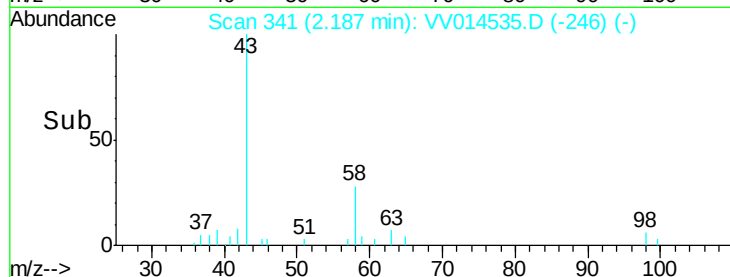
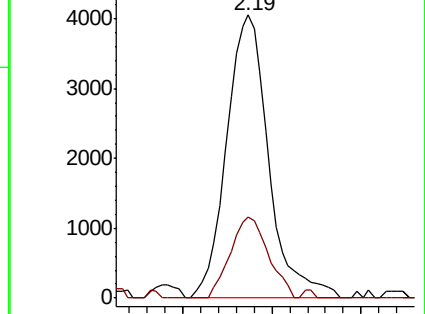
MMDadoda

2/10/2020 11:56:31 AM



Abundance Ion 43.00 (42.70 to 43.70): VV014535.D (-246) (-)

Ion 58.00 (57.70 to 58.70): VV014535.D (-246) (-)



#14

Carbon disulfide

Concen: 2.246 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV014535.D

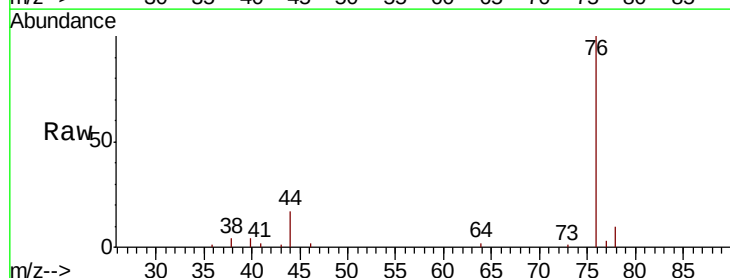
Acq: 07 Feb 2020 13:44

Tgt Ion: 76 Resp: 14647

Ion Ratio Lower Upper

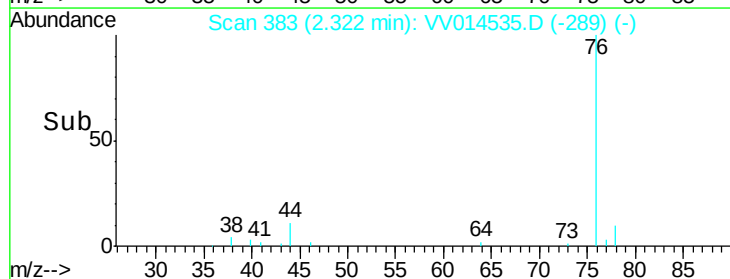
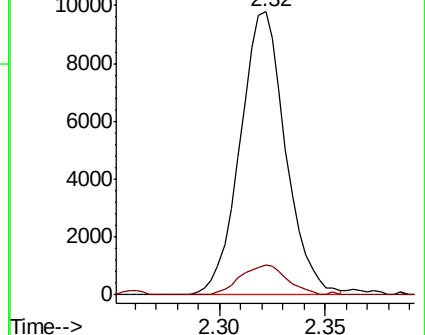
76 100

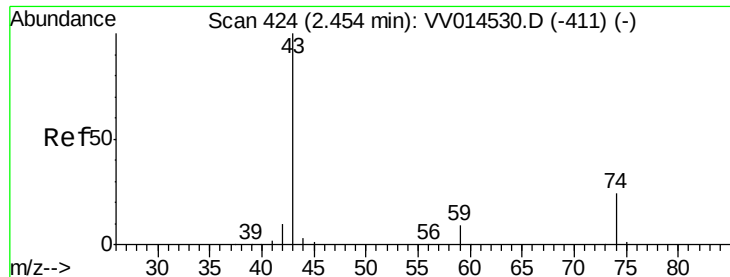
78 10.5 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV014535.D (-289) (-)

Ion 78.00 (77.70 to 78.70): VV014535.D (-289) (-)





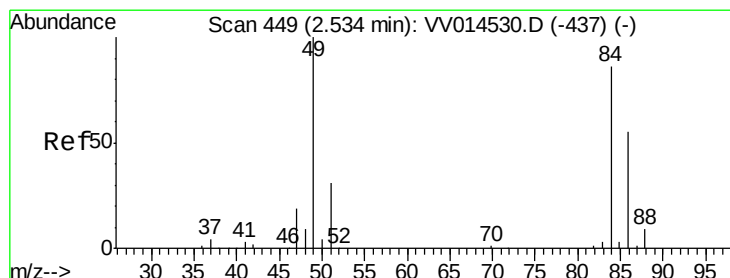
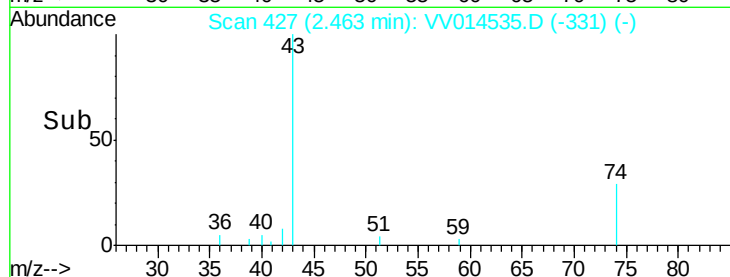
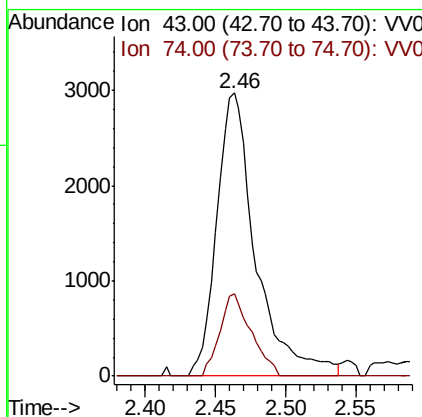
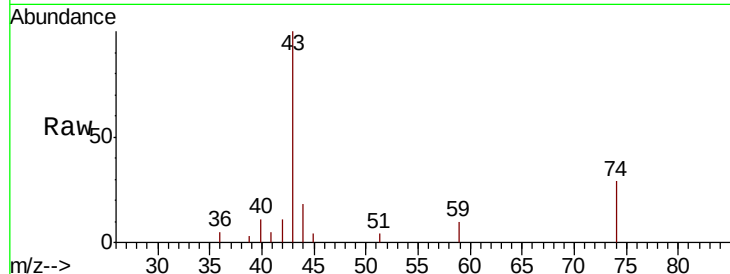
#15
Methvl Acetate
Concen: 2.434 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.01 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion: 43 Resp: 5732
Ion Ratio Lower Upper
43 100
74 23.3 19.4 29.0

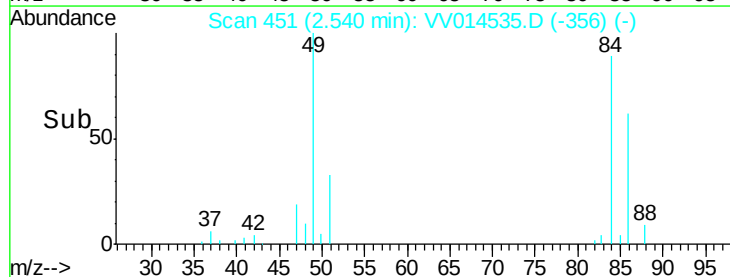
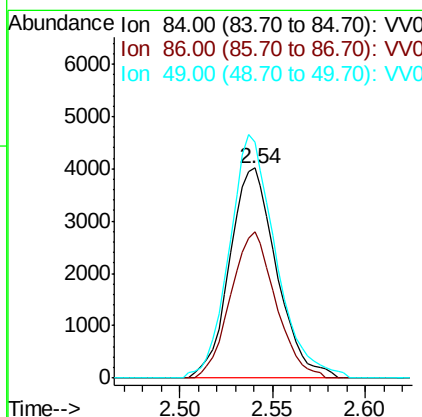
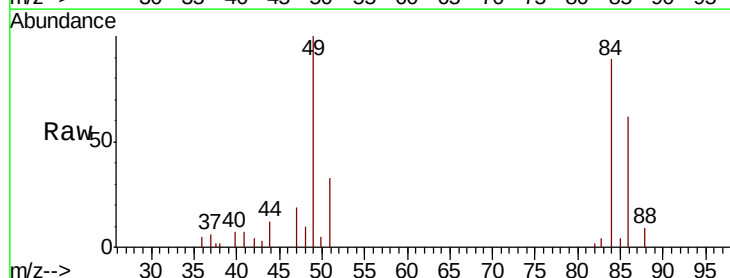
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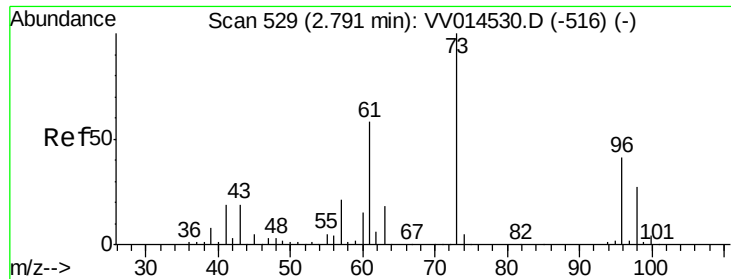
MMDadoda
2/10/2020 11:56:31 AM



#16
Methylene chloride
Concen: 2.765 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.01 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Tgt Ion: 84 Resp: 7053
Ion Ratio Lower Upper
84 100
86 69.8 44.6 82.8
49 112.3 83.2 154.4





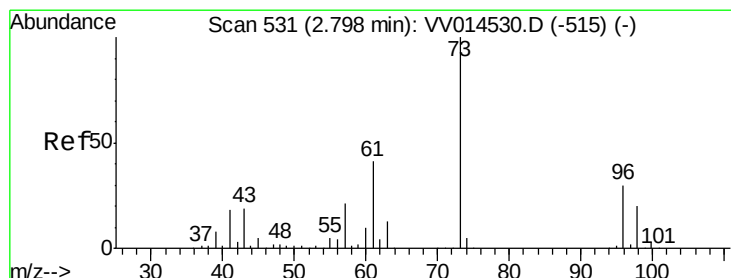
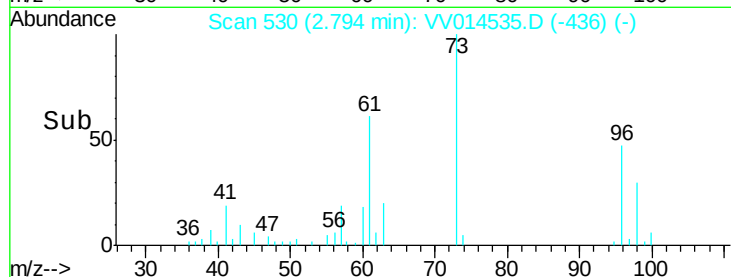
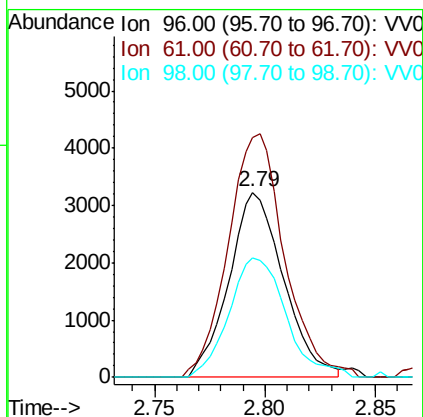
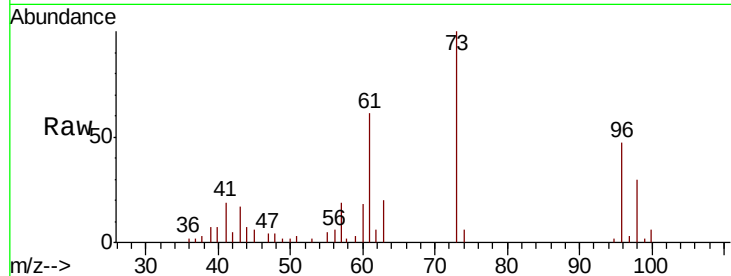
#17
trans-1,2-Dichloroethene
Concen: 2.349 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	129.6	95.8	178.0
98	64.3	45.1	83.7

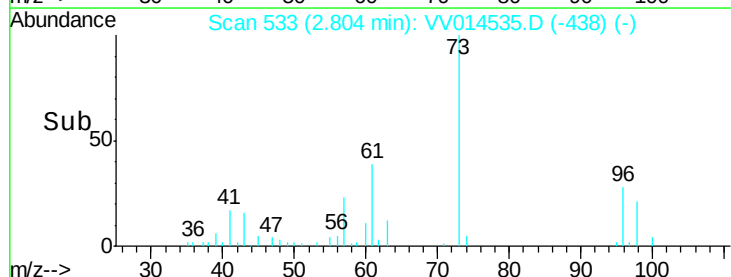
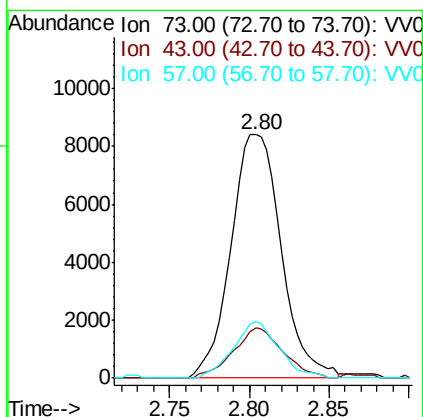
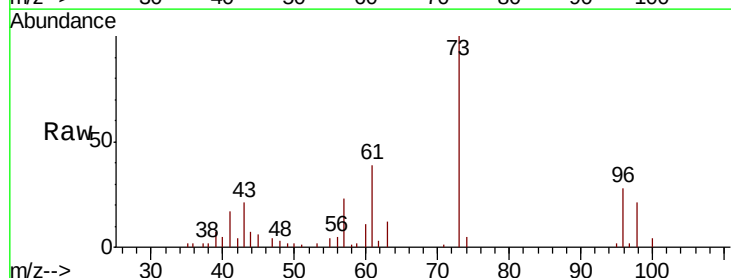
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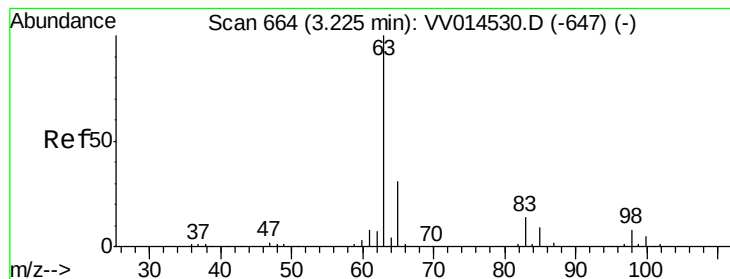
MMDadoda
2/10/2020 11:56:31 AM



#18
Methyl tert-butyl Ether
Concen: 2.412 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.01 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Tgt Ion	Ratio	Lower	Upper
73	100		
43	20.4	14.9	22.3
57	21.1	17.5	26.3





#19

1,1-Dichloroethane

Concen: 2.419 ug/L

RT: 3.23 min Scan# 667

Delta R.T. 0.01 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

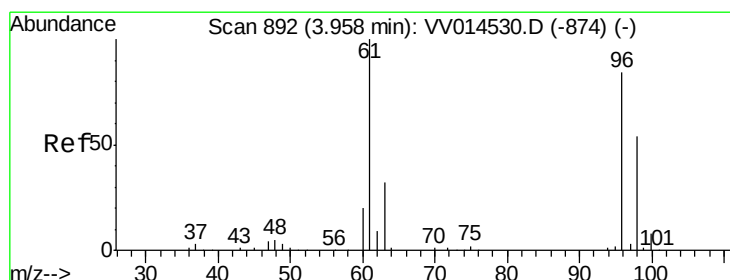
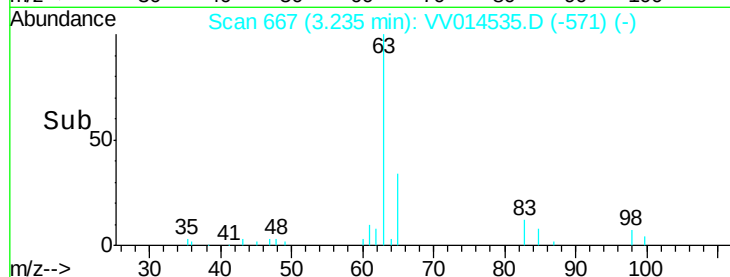
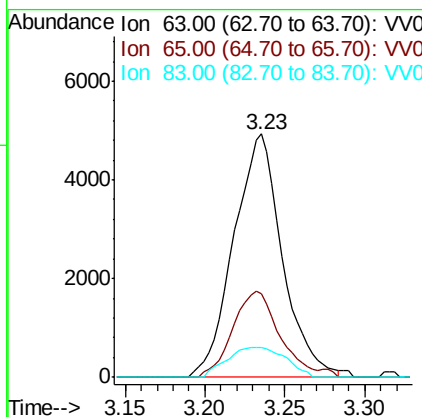
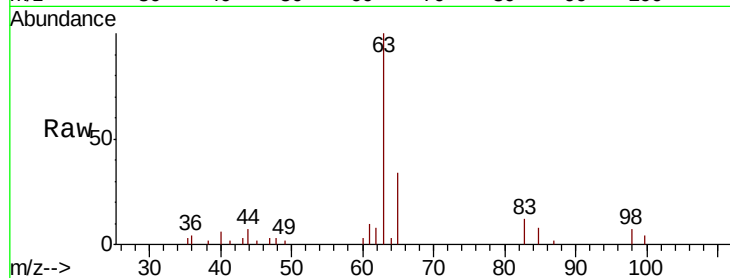
ClientSampleId :

MDL03

Tot Ion:	63	Resp:	10235
Ion	Ratio	Lower	Upper
63	100		
65	34.2	22.5	41.7
83	12.2	9.7	18.1

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#20

cis-1,2-Dichloroethene

Concen: 2.367 ug/L

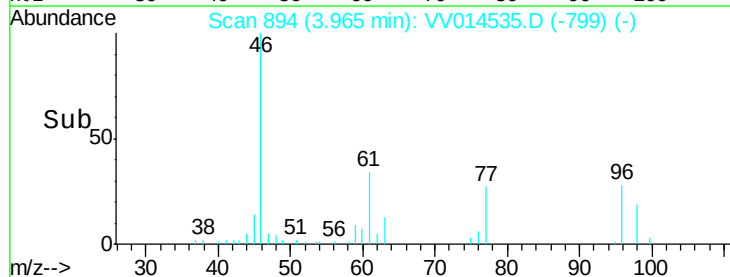
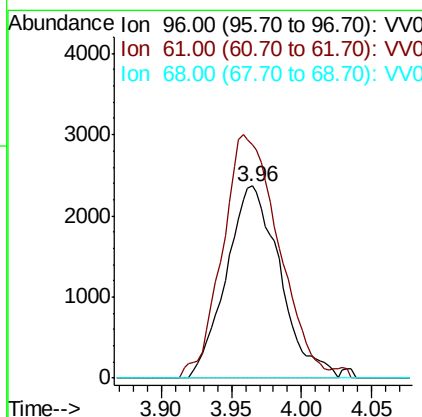
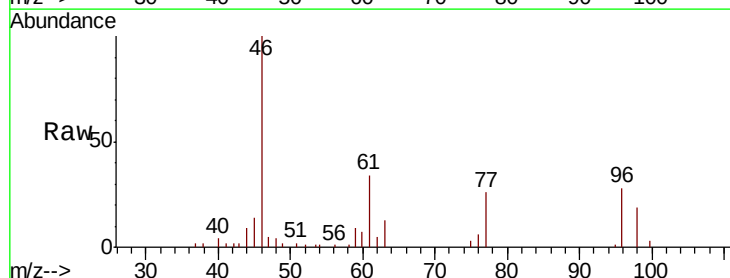
RT: 3.96 min Scan# 894

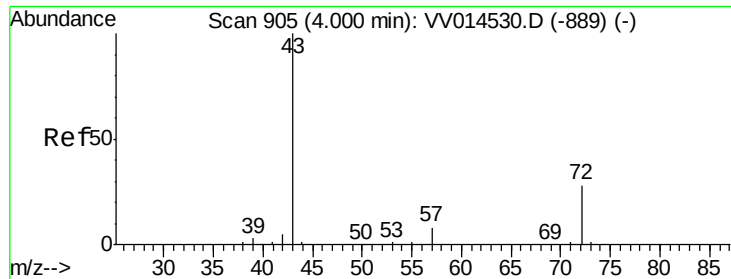
Delta R.T. 0.01 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Tgt Ion:	96	Resp:	6304
Ion	Ratio	Lower	Upper
96	100		
61	121.6	85.2	158.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.640 ug/L m

RT: 4.03 min Scan# 913

Delta R.T. 0.03 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 43 Resp: 8406

Ion Ratio Lower Upper

43 100

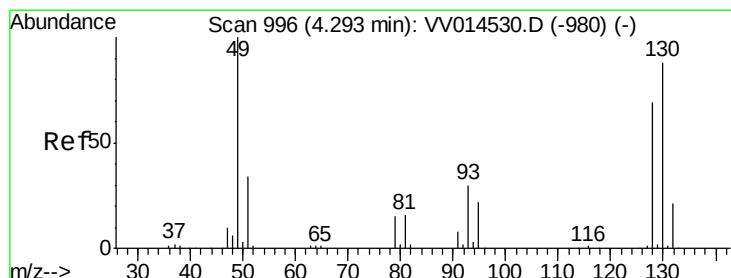
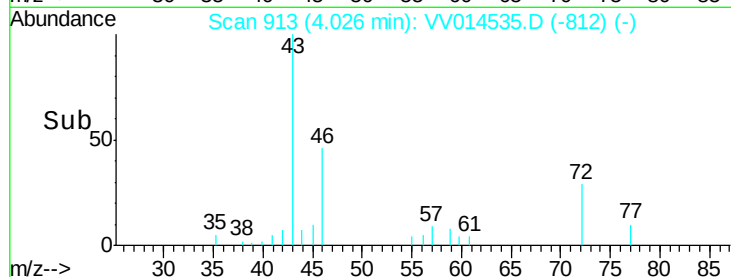
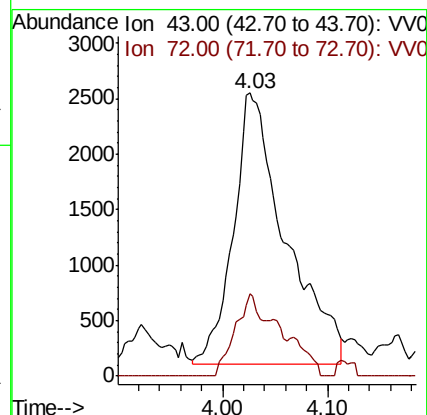
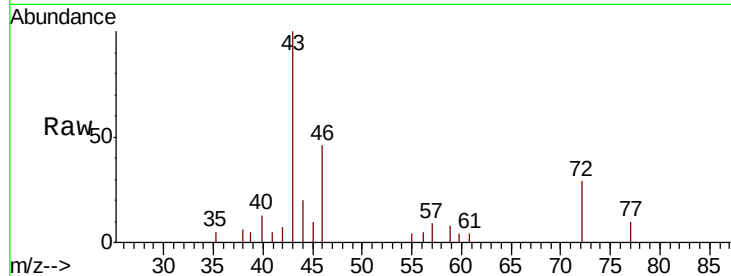
72 14.7 12.7 38.1

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#23

Bromochloromethane

Concen: 2.520 ug/L

RT: 4.31 min Scan# 1001

Delta R.T. 0.02 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Tgt Ion: 128 Resp: 3178

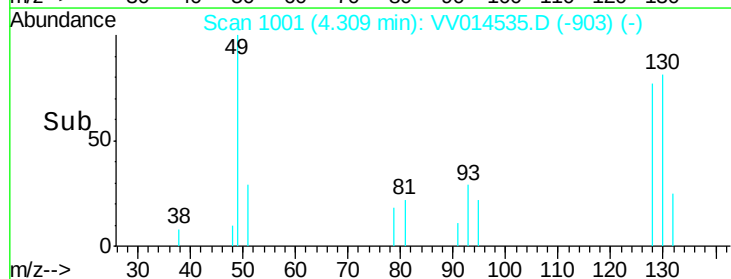
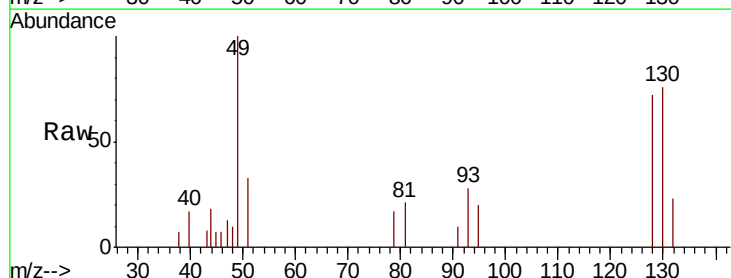
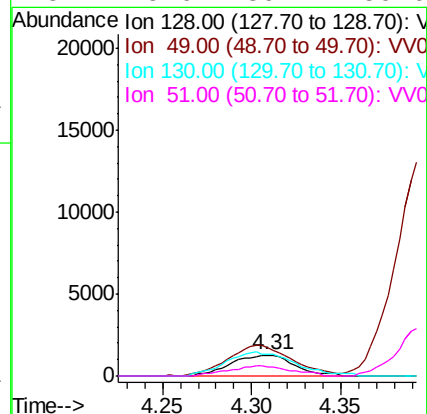
Ion Ratio Lower Upper

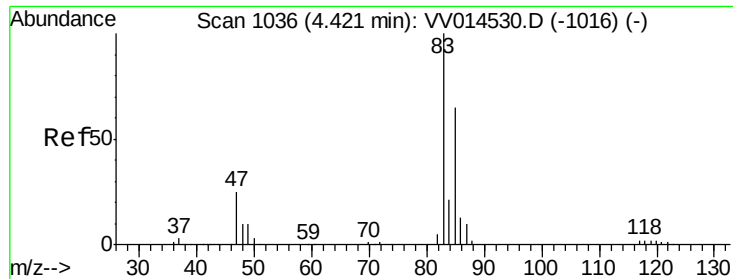
128 100

49 138.1 110.1 204.5

130 104.7 88.5 164.4

51 45.6 39.4 59.0





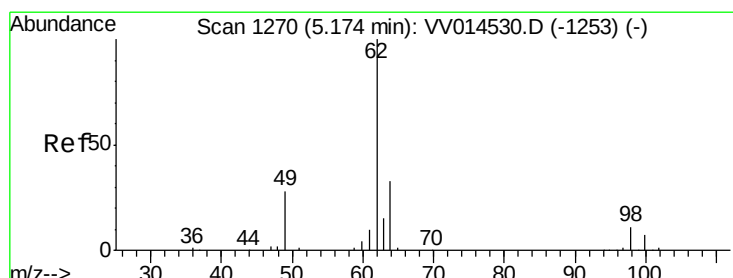
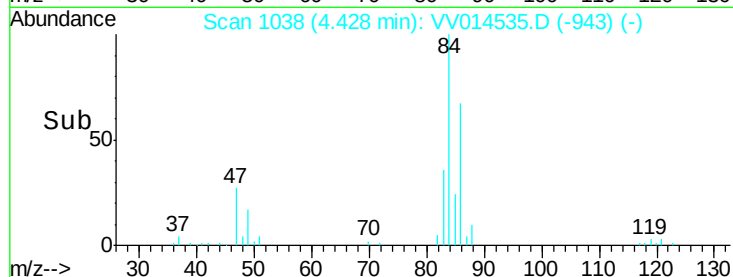
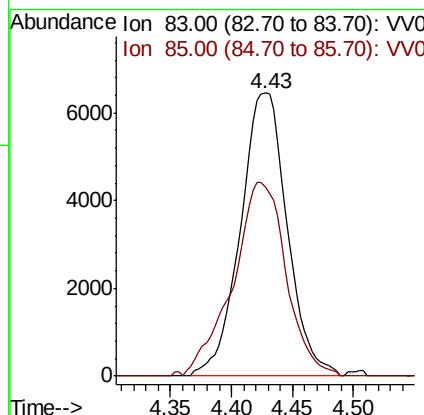
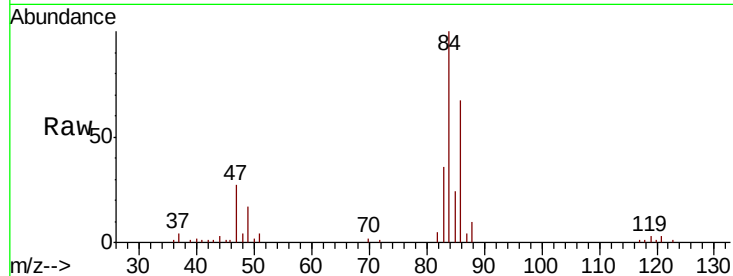
#25
Chloroform
Concen: 3.990 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.01 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	83	Resp	17167
Ion Ratio	100	Lower	Upper
85	66.5	45.8	85.0

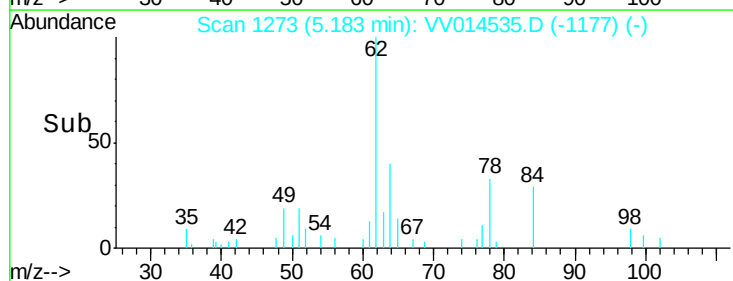
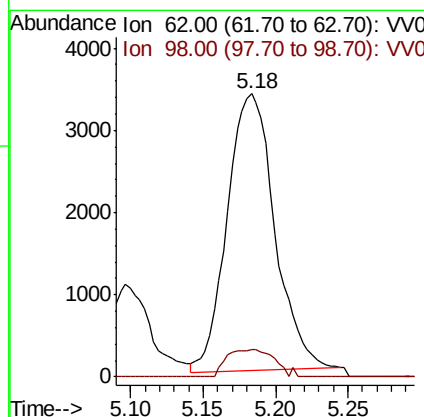
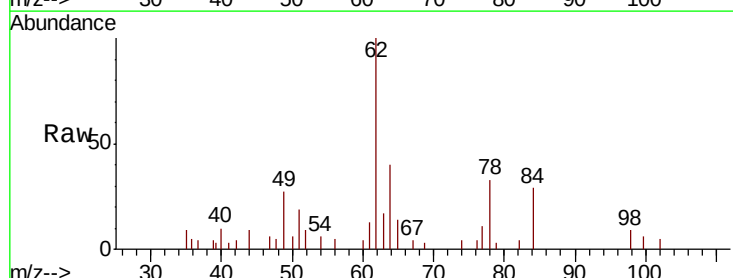
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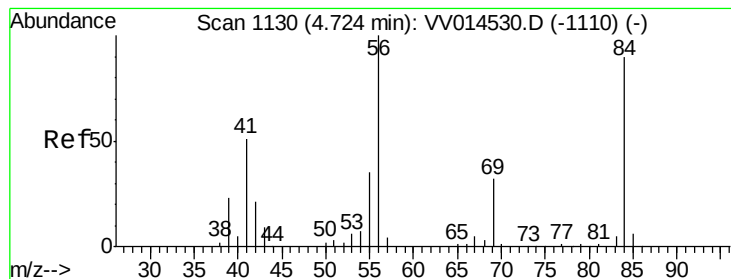
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.395 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Tgt Ion	62	Resp	7677
Ion Ratio	100	Lower	Upper
98	9.5	8.2	12.4





#29

Cyclohexane

Concen: 2.189 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 56 Resp: 8830

Ion Ratio Lower Upper

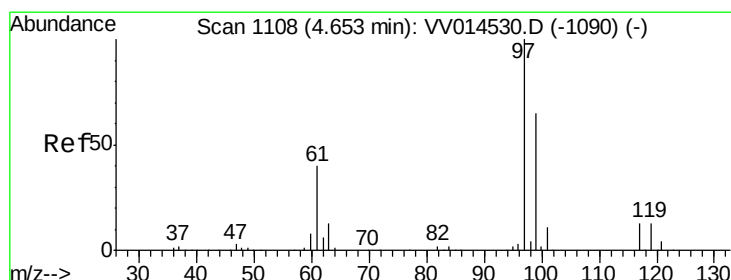
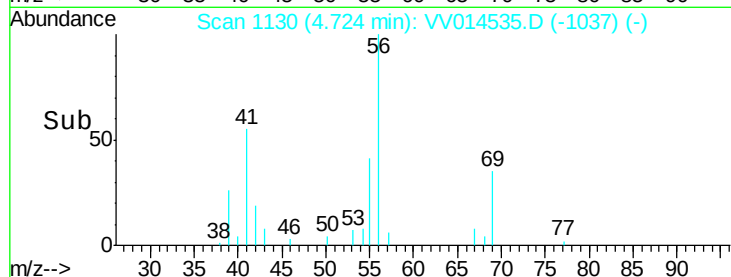
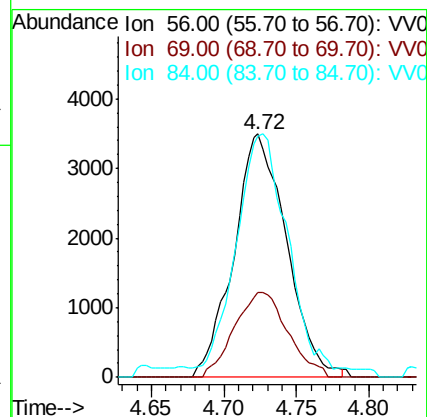
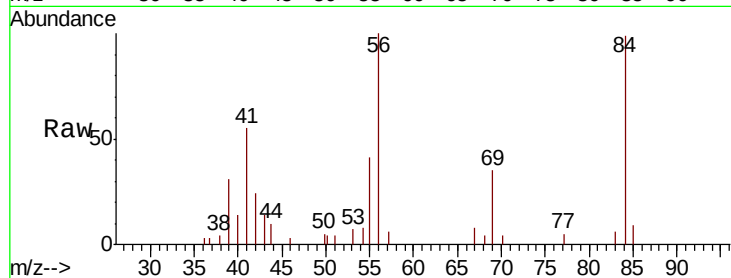
56 100

69 35.2 25.2 37.8

84 90.4 69.8 104.8

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#30

1,1,1-Trichloroethane

Concen: 2.460 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

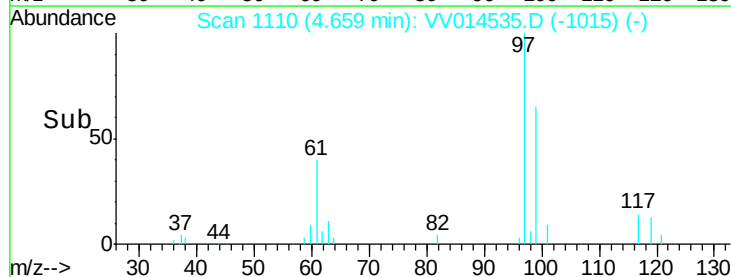
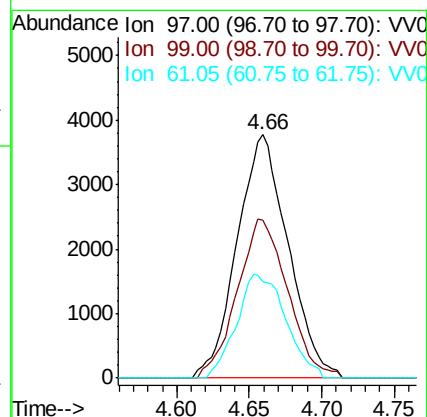
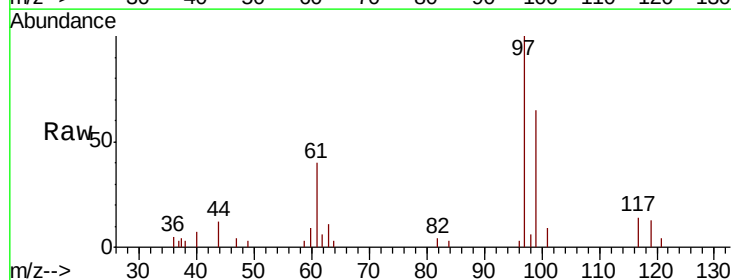
Tgt Ion: 97 Resp: 9213

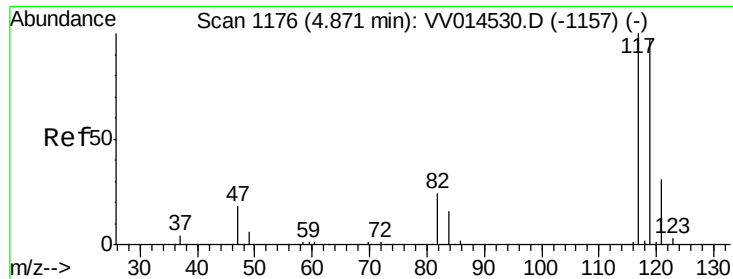
Ion Ratio Lower Upper

97 100

99 64.3 50.6 76.0

61 41.2 33.0 49.4





#31

Carbon tetrachloride

Concen: 2.417 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion:117 Resp: 7987

Ion Ratio Lower Upper

117 100

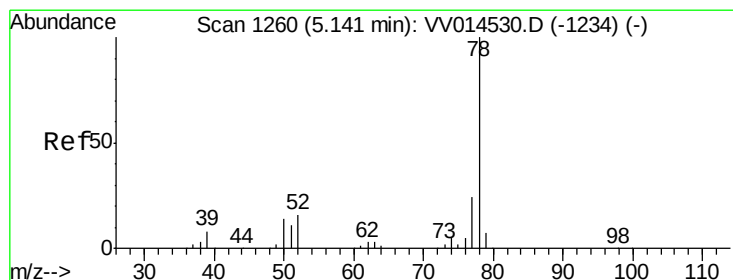
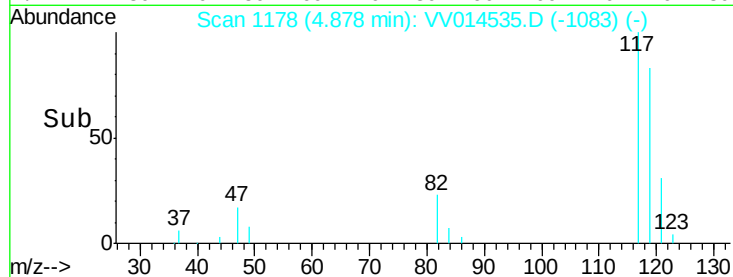
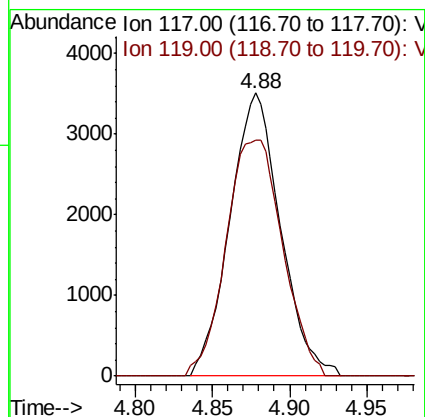
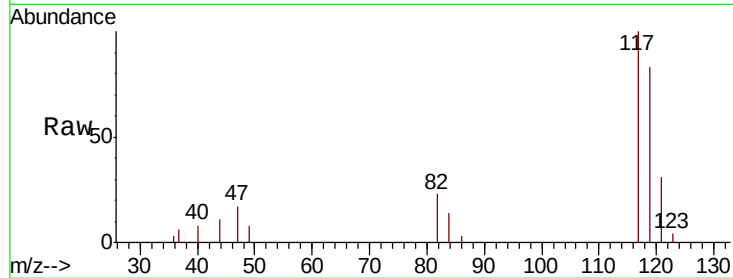
119 93.0 76.7 115.1

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#33

Benzene

Concen: 2.428 ug/L

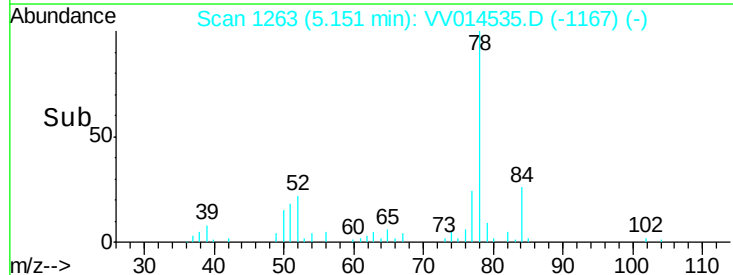
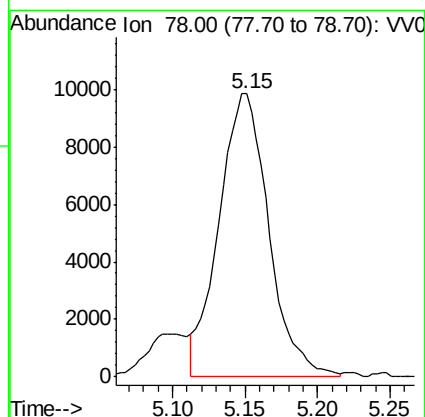
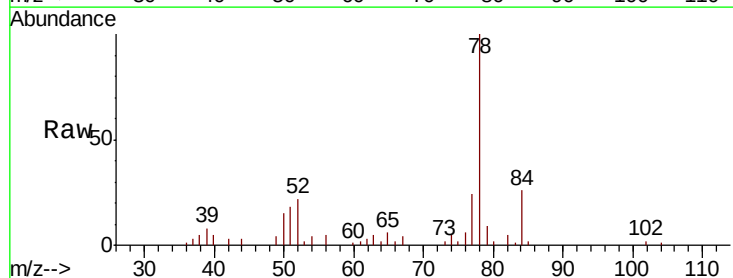
RT: 5.15 min Scan# 1263

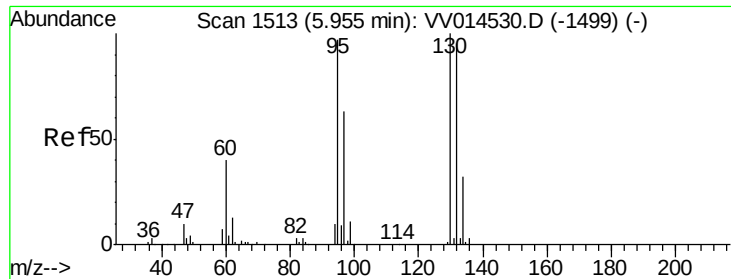
Delta R.T. 0.01 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Tgt Ion: 78 Resp: 23425





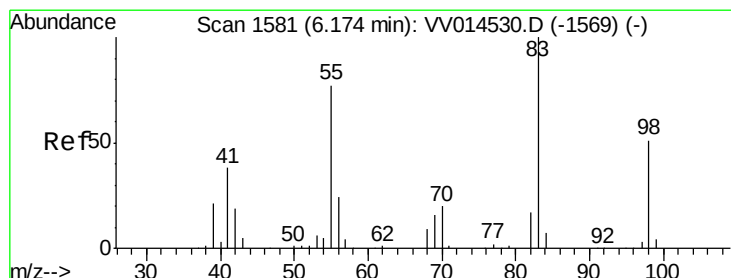
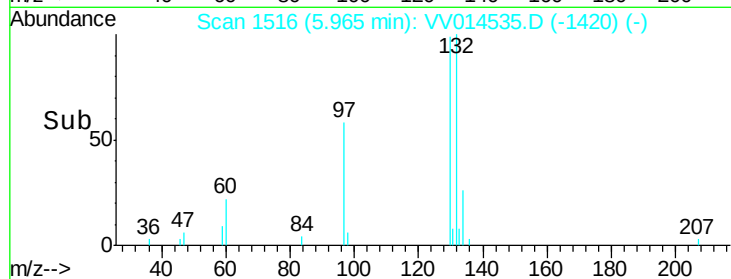
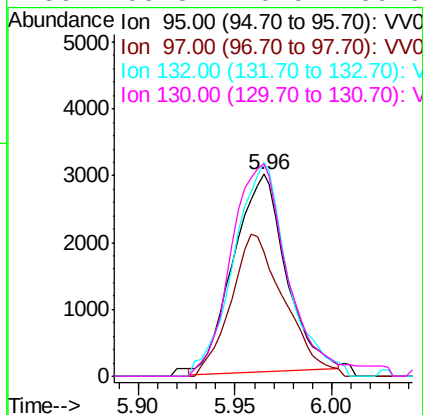
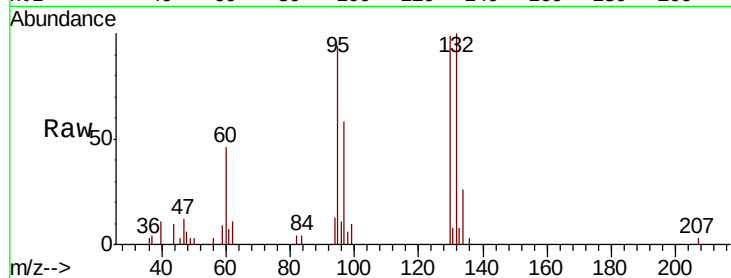
#34
 Trichloroethene
 Concen: 2.190 ug/L
 RT: 5.96 min Scan# 1516
 Delta R.T. 0.01 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	95	Resp	5599
Ion	Ratio	Lower	Upper
95	100		
97	61.8	45.1	83.7
132	105.8	67.7	125.7
130	105.3	70.5	130.9

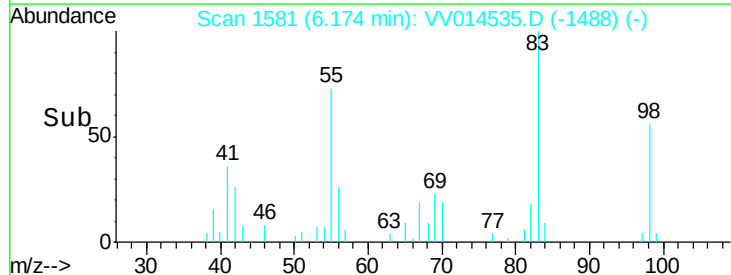
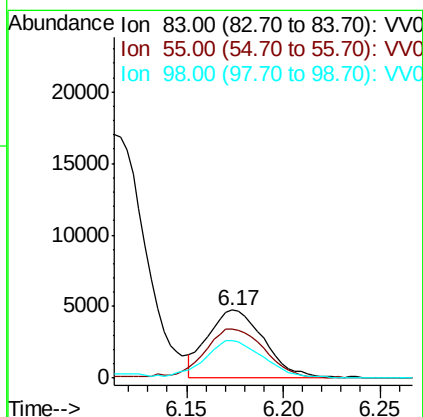
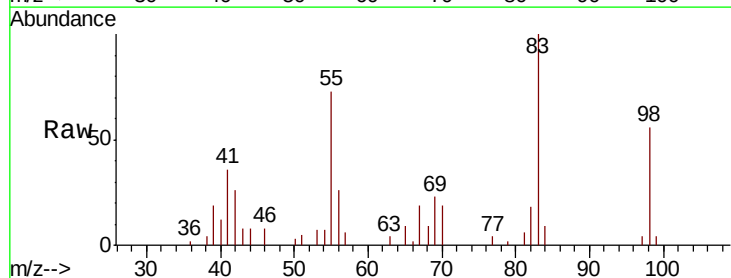
Manual Integrations
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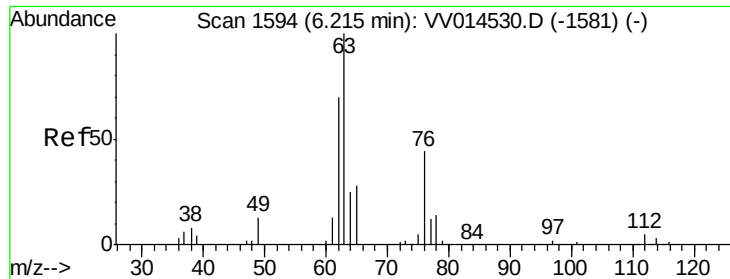
MMDadoda
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#35
 Methylcyclohexane
 Concen: 2.322 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Tgt Ion	83	Resp	9702
Ion	Ratio	Lower	Upper
83	100		
55	76.3	60.7	91.1
98	52.7	39.4	59.0





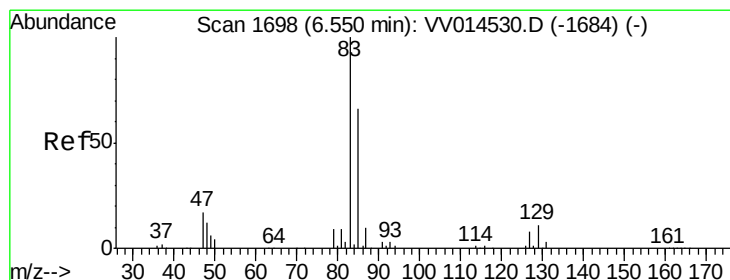
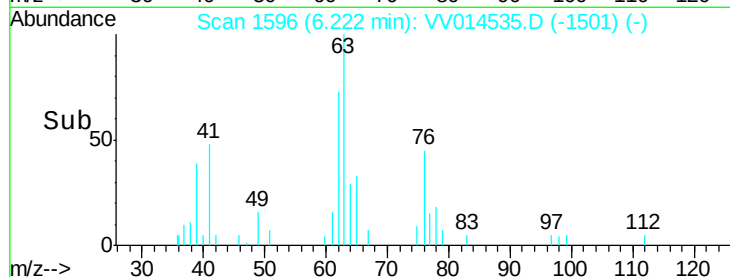
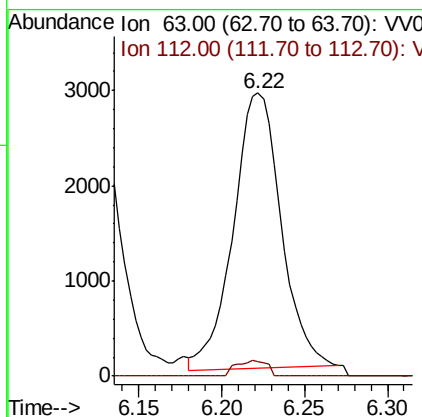
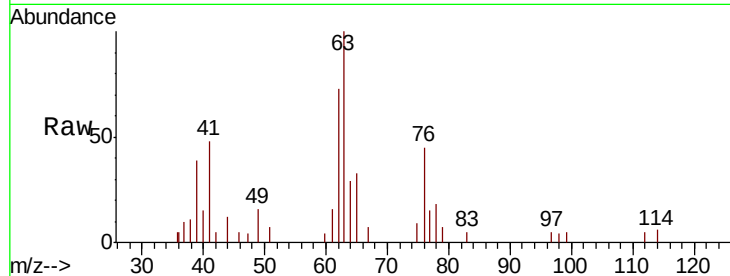
#37
 1,2-Dichloropropane
 Concen: 2.363 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.01 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion: 63 Resp: 5806
 Ion Ratio Lower Upper
 63 100
 112 2.8 3.7 5.5#

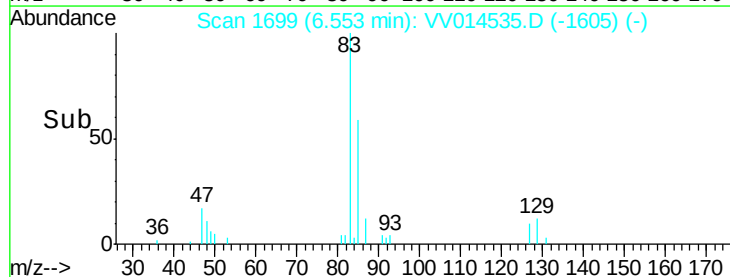
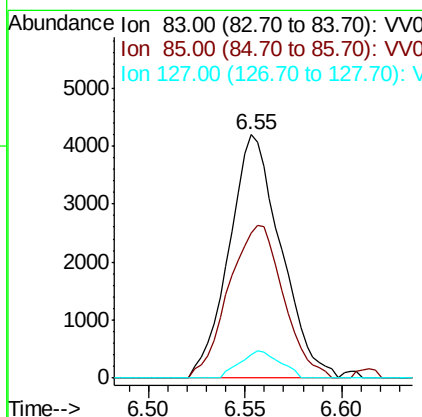
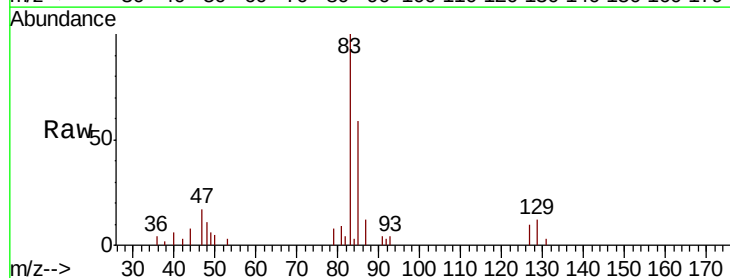
Manual Integrations
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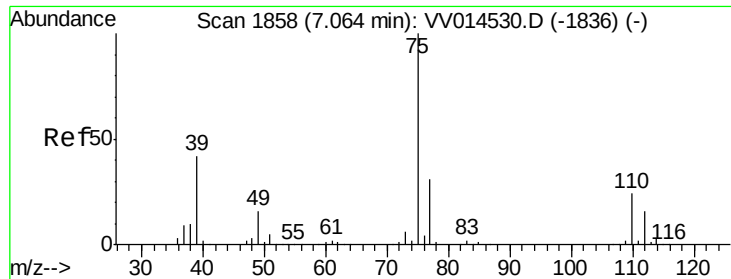
MMDadoda
 2/10/2020 11:56:31 AM



#38
 Bromodichloromethane
 Concen: 2.356 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Tgt Ion: 83 Resp: 7769
 Ion Ratio Lower Upper
 83 100
 85 59.5 44.4 82.4
 127 9.6 6.7 10.1





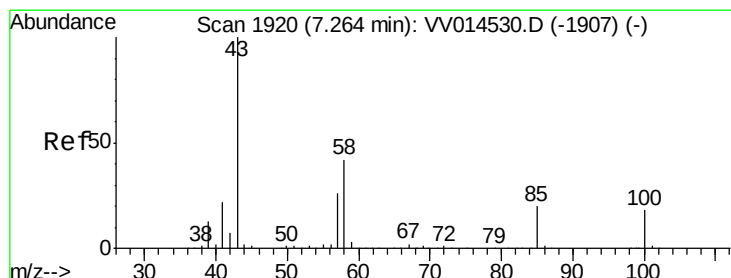
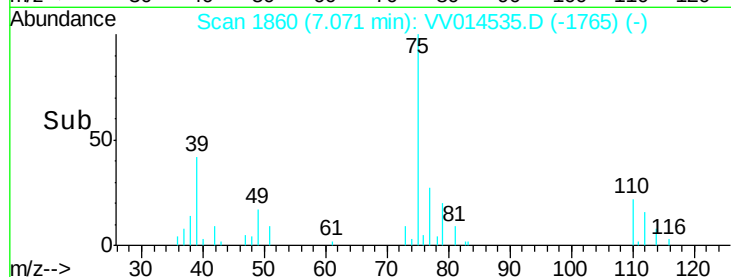
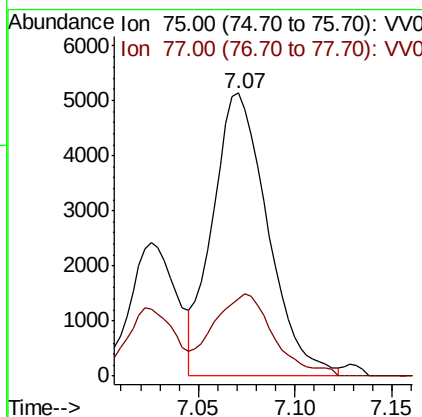
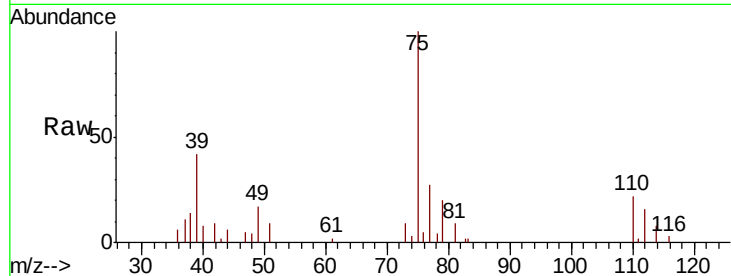
#39
 cis-1,3-Dichloropropene
 Concen: 2.486 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.01 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion: 75 Resp: 10192
 Ion Ratio Lower Upper
 75 100
 77 27.4 22.7 42.1

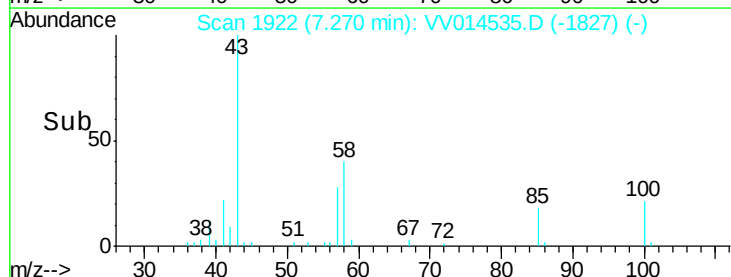
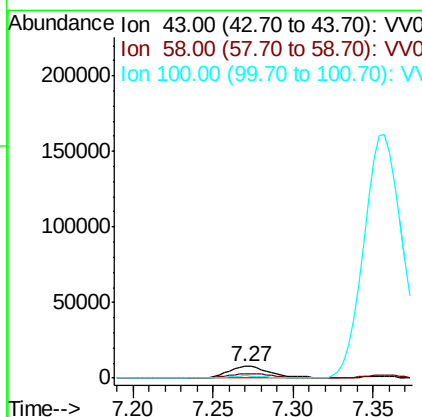
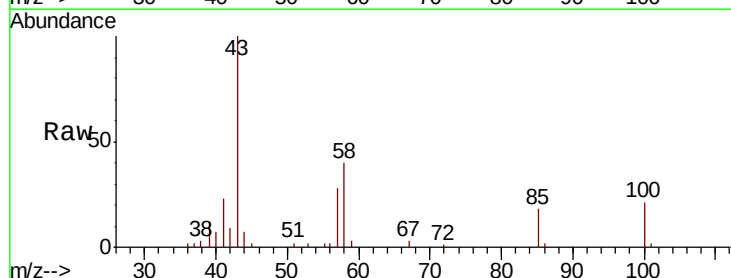
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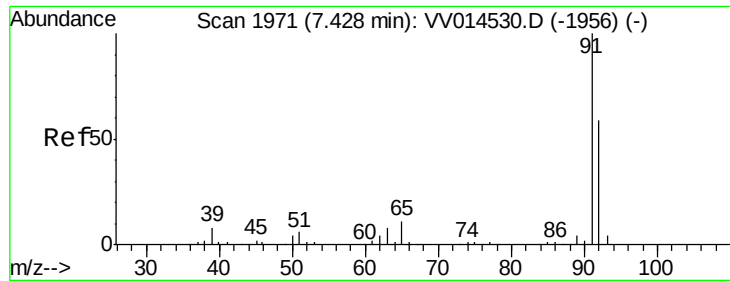
MMDadoda
 2/10/2020 11:56:31 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.511 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Tgt Ion: 43 Resp: 14325
 Ion Ratio Lower Upper
 43 100
 58 41.1 33.2 49.8
 100 16.8 13.9 20.9





#42

Toluene

Concen: 2.396 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 24782

Ion Ratio Lower Upper

91 100

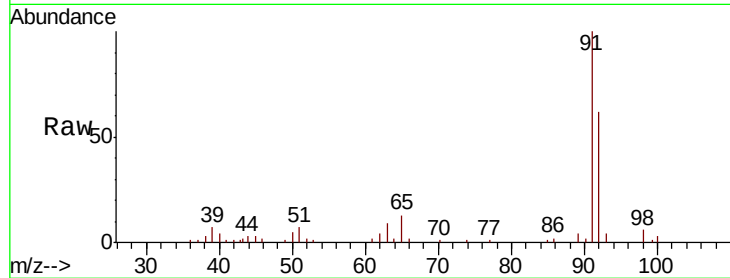
92 62.1 41.6 77.2

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Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

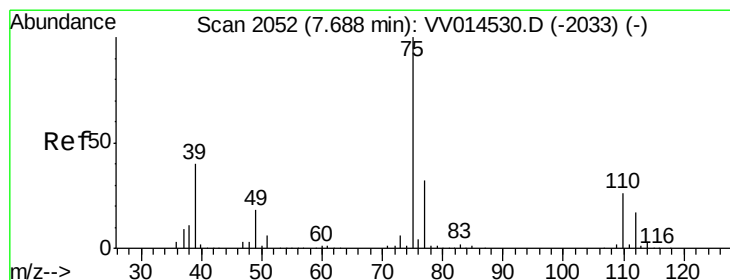
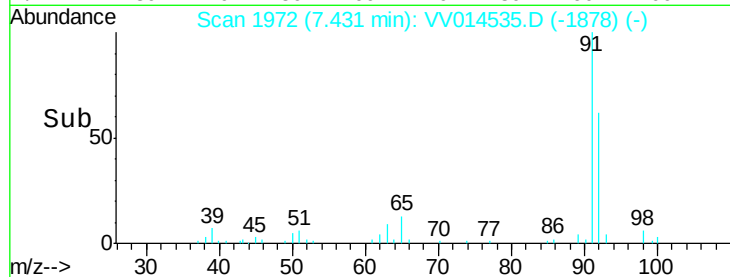
15000

10000

5000

0

Time--> 7.35 7.40 7.45 7.50



#44

trans-1,3-Dichloropropene

Concen: 2.386 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014535.D

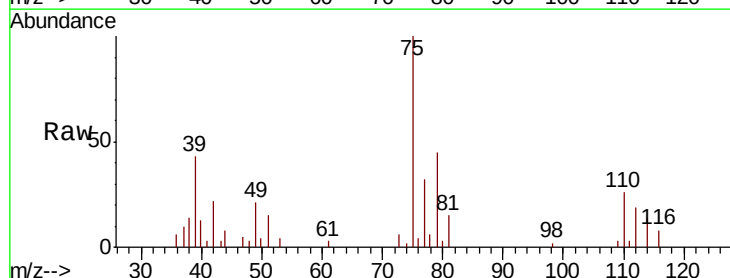
Acq: 07 Feb 2020 13:44

Tgt Ion: 75 Resp: 8768

Ion Ratio Lower Upper

75 100

77 32.1 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.69

5000

4000

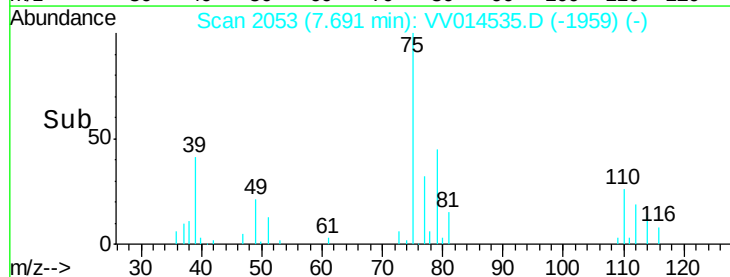
3000

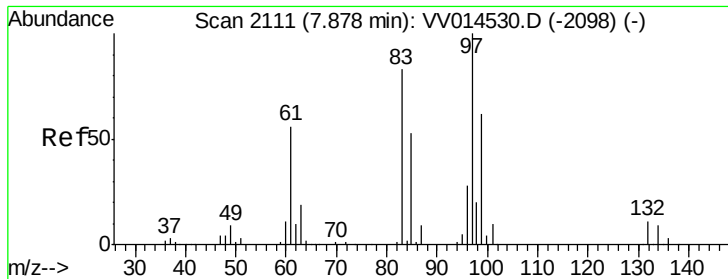
2000

1000

0

Time--> 7.65 7.70 7.75





#45

1,1,2-Trichloroethane

Concen: 2.479 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 97 Resp: 5843

Ion Ratio Lower Upper

97 100

99 67.8 44.5 82.7

83 84.5 60.1 111.5

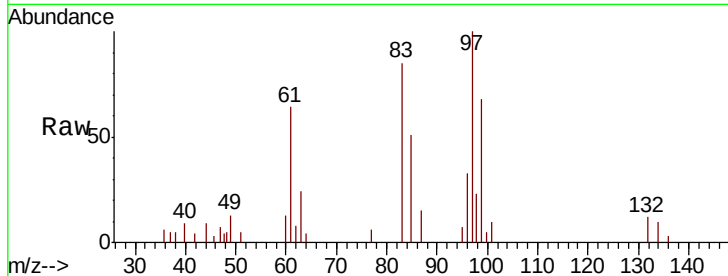
85 50.9 38.1 70.9

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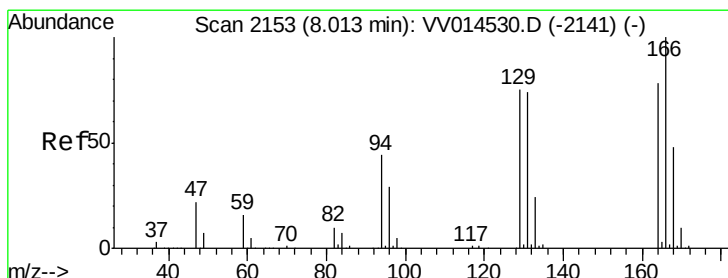
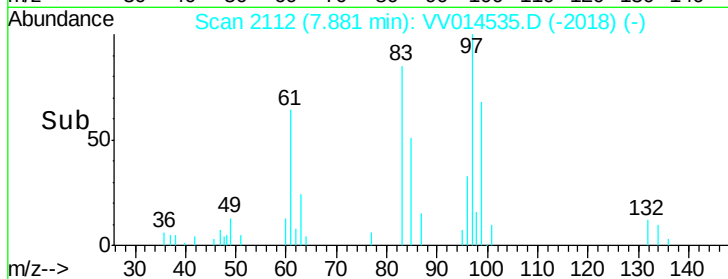
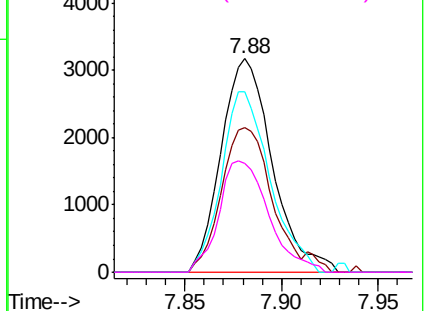


Abundance Ion 97.00 (96.70 to 97.70): VV014535.D (-2098) (-)

Ion 99.00 (98.70 to 99.70): VV014535.D (-2098) (-)

Ion 83.00 (82.70 to 83.70): VV014535.D (-2098) (-)

Ion 85.00 (84.70 to 85.70): VV014535.D (-2098) (-)



#46

Tetrachloroethene

Concen: 2.302 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Tgt Ion: 164 Resp: 4491

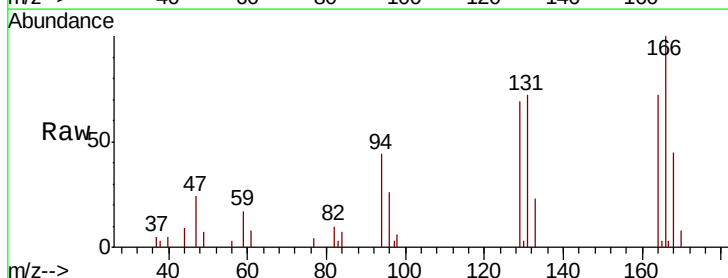
Ion Ratio Lower Upper

164 100

129 95.8 68.0 126.4

131 100.0 63.4 117.8

166 143.1 86.9 161.3

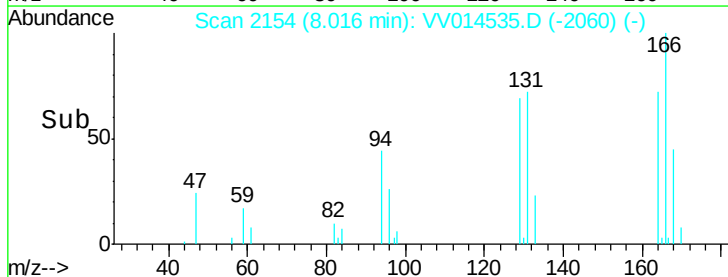
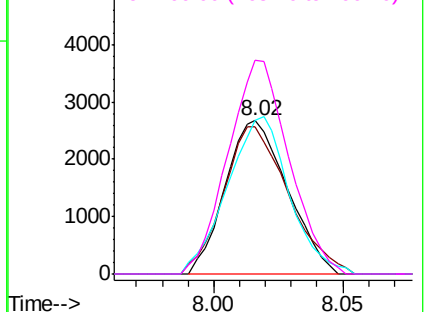


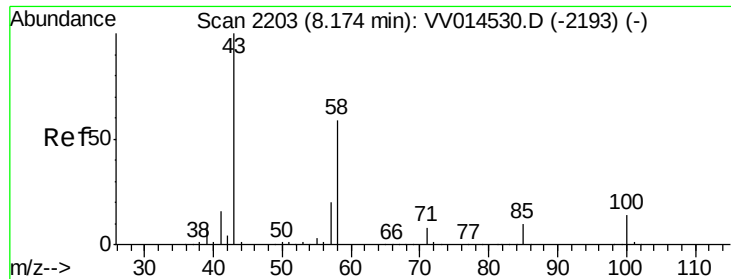
Abundance Ion 164.00 (163.70 to 164.70): VV014535.D (-2060) (-)

Ion 129.00 (128.70 to 129.70): VV014535.D (-2060) (-)

Ion 131.00 (130.70 to 131.70): VV014535.D (-2060) (-)

Ion 166.00 (165.70 to 166.70): VV014535.D (-2060) (-)





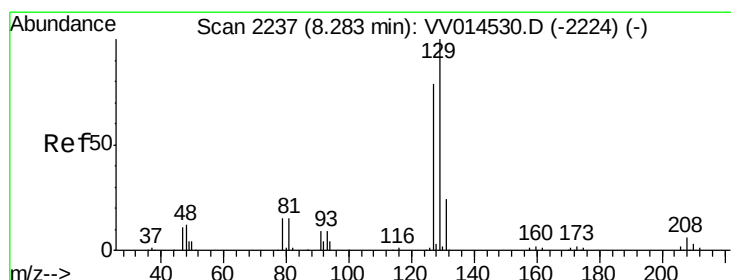
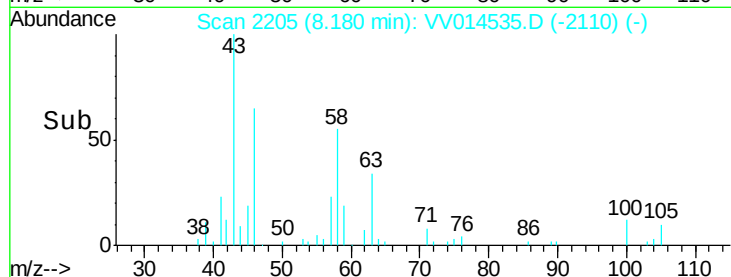
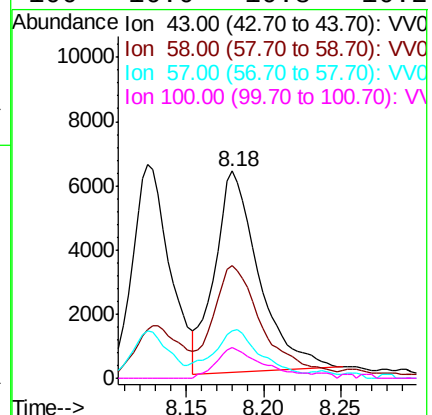
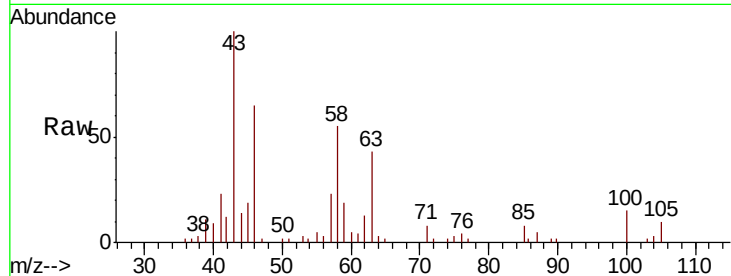
#48
2-Hexanone
Concen: 5.090 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.01 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
43	100		
58	59.9	45.5	68.3
57	27.4	15.8	23.6
100	16.0	10.8	16.2

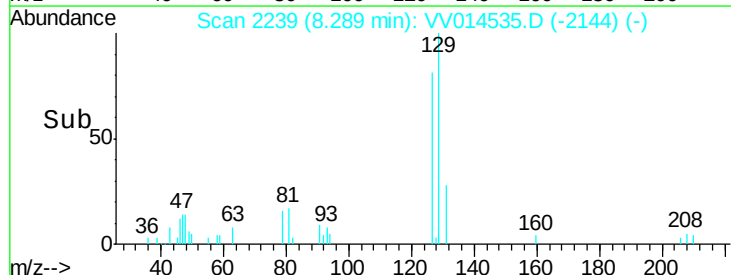
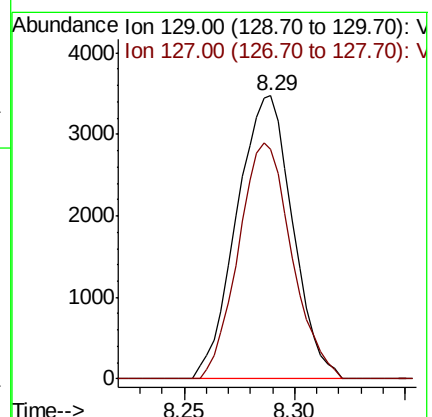
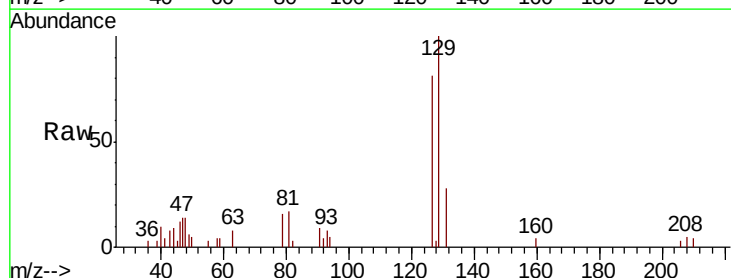
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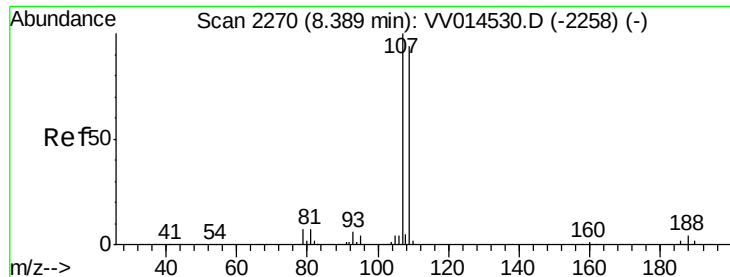
MMDadoda
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#49
Dibromochloromethane
Concen: 2.293 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.01 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.1	54.1	100.5





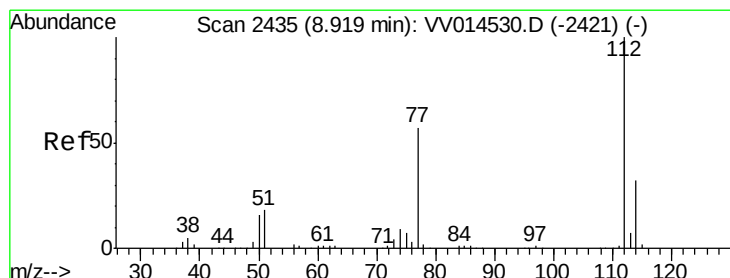
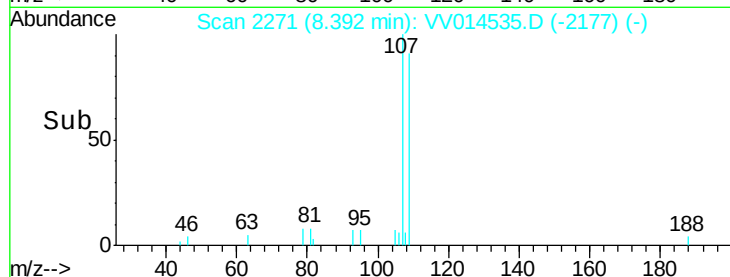
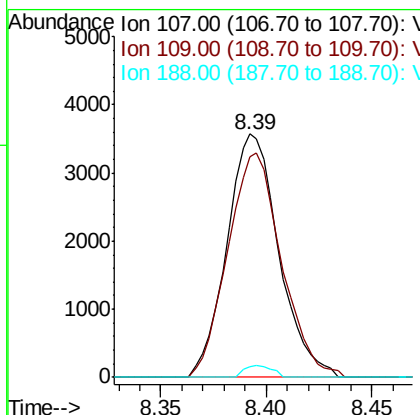
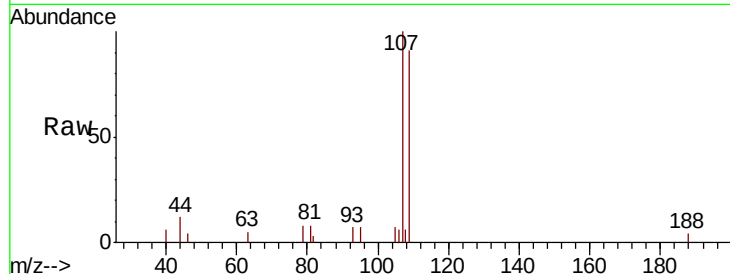
#50
1,2-Dibromoethane
Concen: 2.391 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.6	65.2	121.2
188	4.4	2.6	4.0#

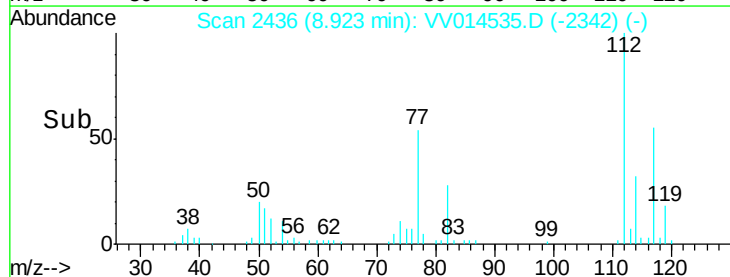
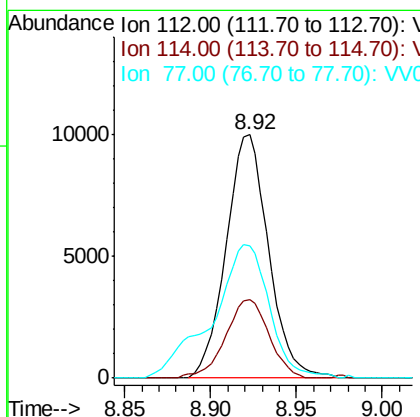
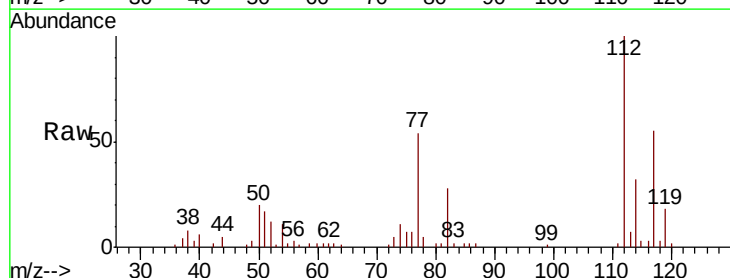
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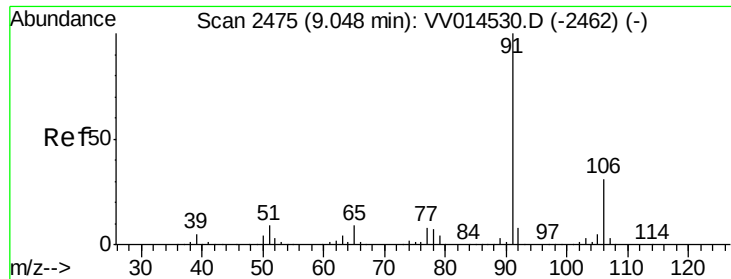
MMDadoda
2/10/2020 11:56:31 AM



#51
Chlorobenzene
Concen: 2.540 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.3	41.5
77	54.4	47.3	70.9





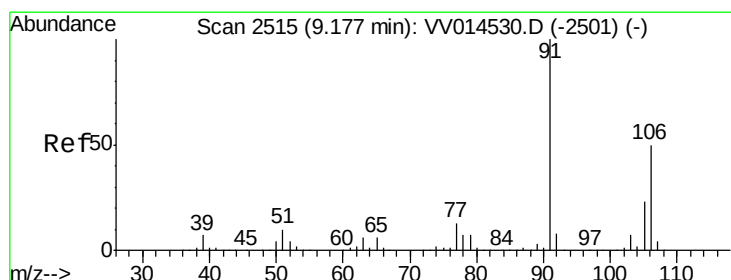
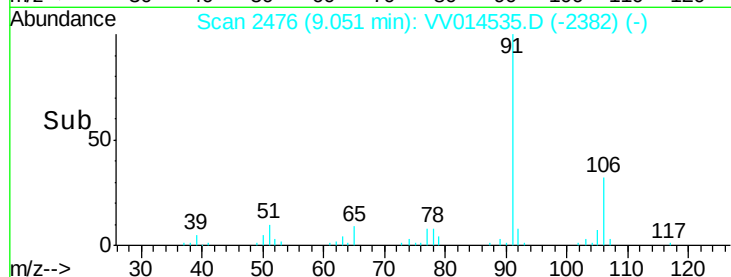
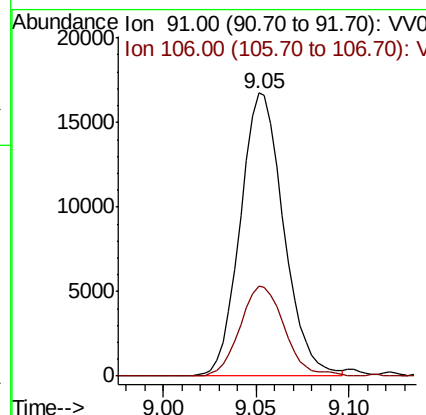
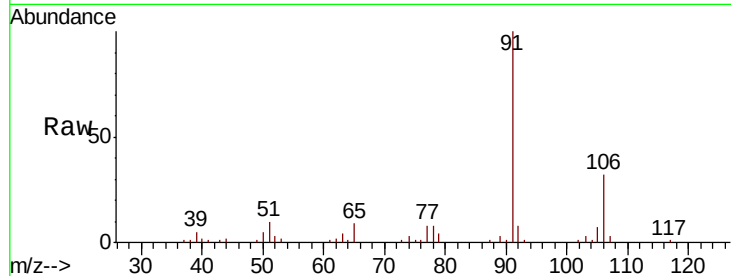
#52
Ethylbenzene
Concen: 2.350 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. 0.00 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion: 91 Resp: 27255
Ion Ratio Lower Upper
91 100
106 32.0 21.5 39.9

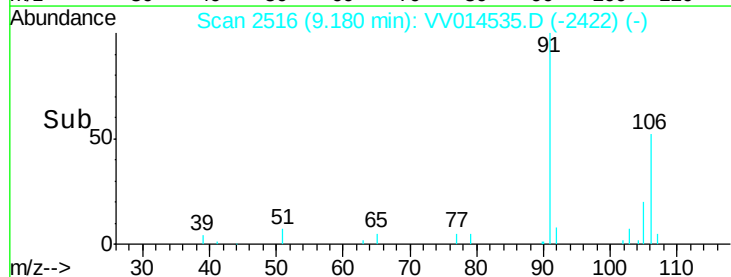
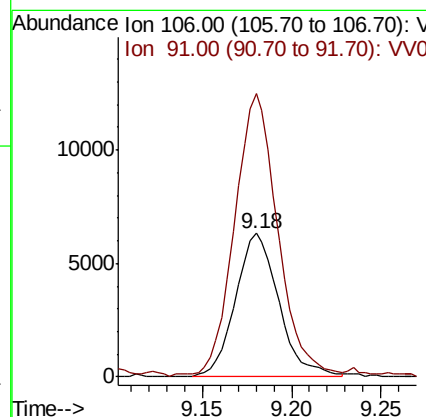
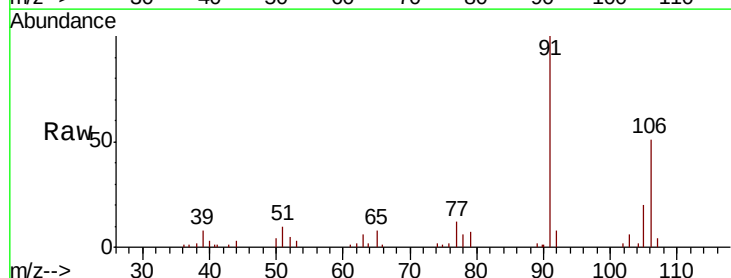
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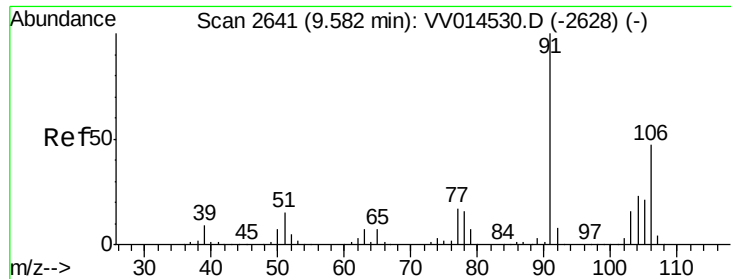
MMDadoda
2/10/2020 11:56:31 AM



#53
m,p-Xylene
Concen: 2.388 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Tgt Ion: 106 Resp: 10671
Ion Ratio Lower Upper
106 100
91 197.2 141.4 262.6





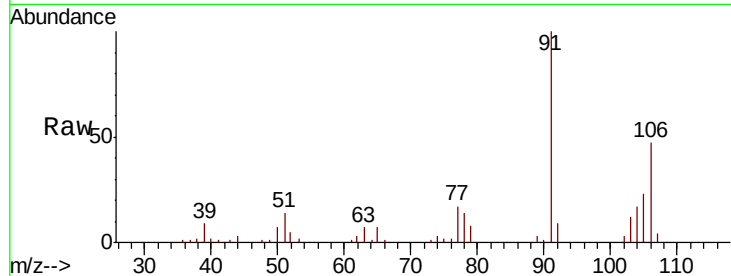
#54
o-Xylene
Concen: 2.393 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Instrument :
MSVOA_V
ClientSampleId :
MDL03

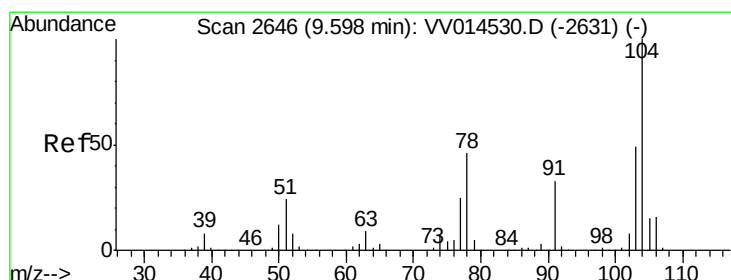
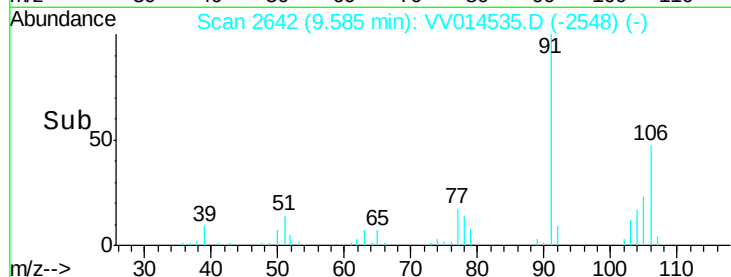
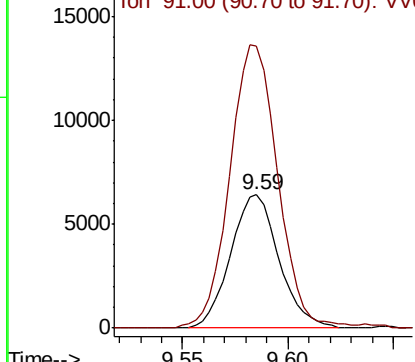
Tot Ion:106 Resp: 10236
Ion Ratio Lower Upper
106 100
91 211.1 149.4 277.4

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2/10/2020 11:56:31 AM

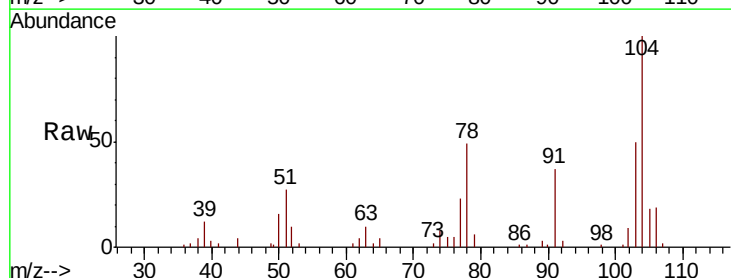


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

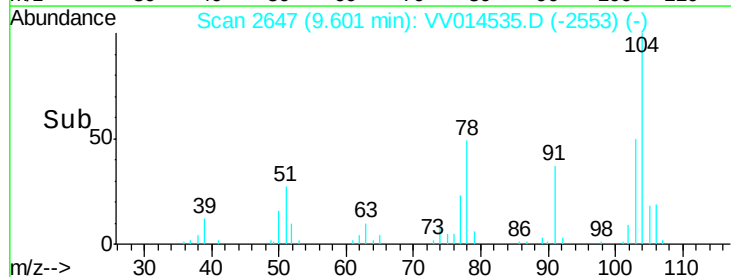
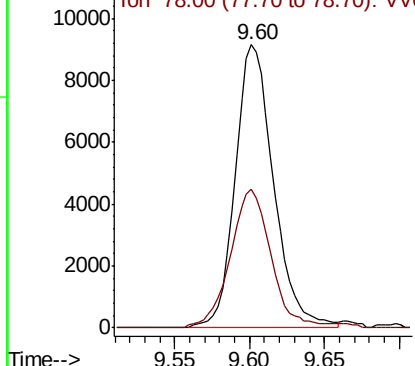


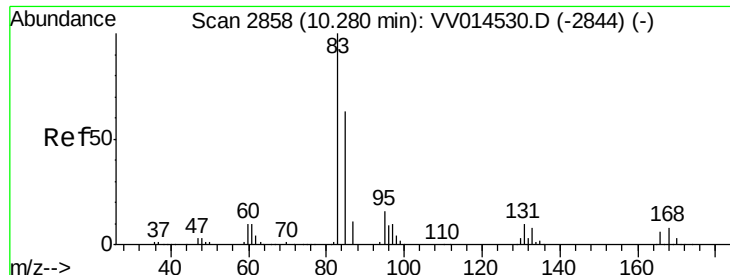
#55
Styrene
Concen: 2.239 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Tgt Ion:104 Resp: 16366
Ion Ratio Lower Upper
104 100
78 48.9 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





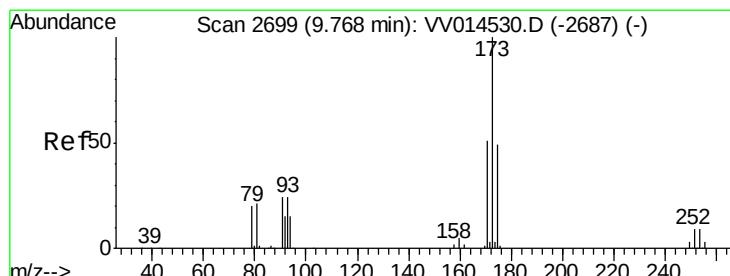
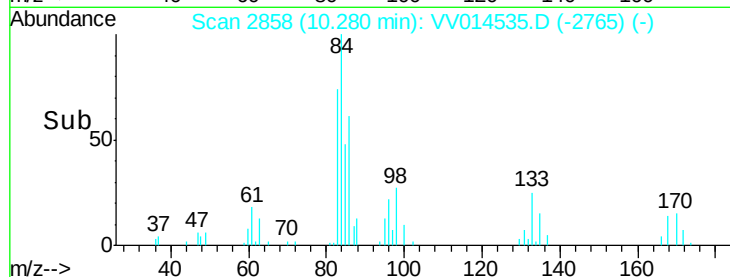
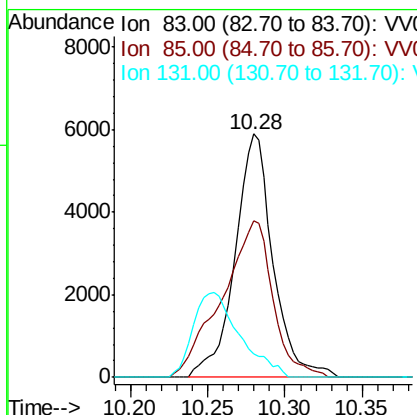
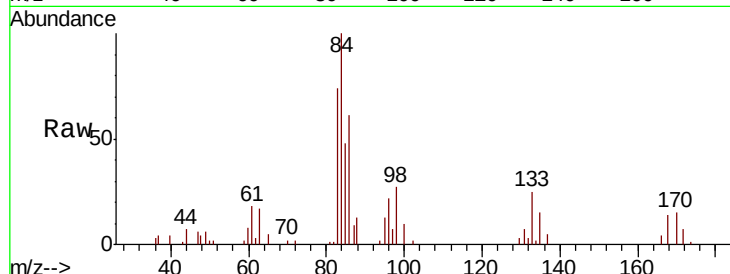
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.719 ug/L
 RT: 10.28 min Scan# 2858
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	83	Resp	10047
Ion Ratio	100	Lower	Upper
83	100		
85	64.2	45.2	84.0
131	9.6	7.8	11.8

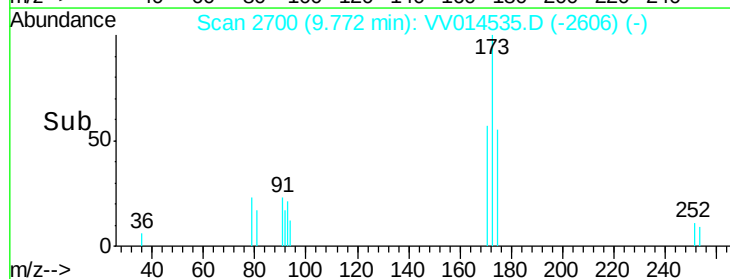
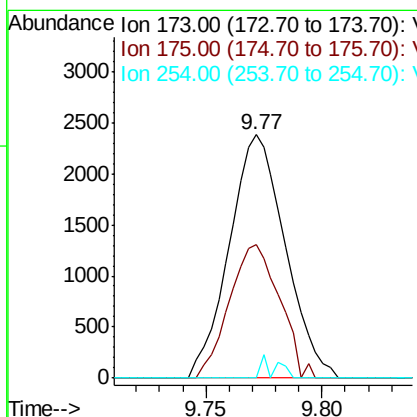
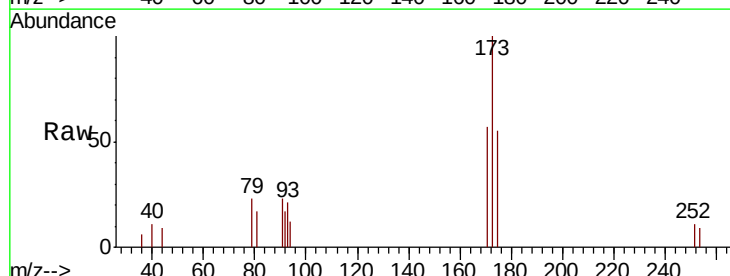
Manual Integrations
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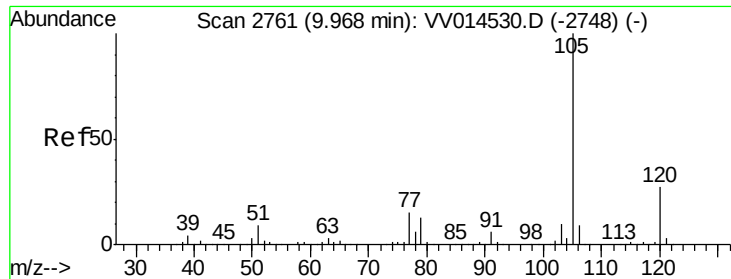
MMDadoda
 2/10/2020 11:56:31 AM



#59
 Bromoform
 Concen: 2.199 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Tgt Ion	173	Resp	3981
Ion Ratio	100	Lower	Upper
173	100		
175	48.5	37.8	56.8
254	1.1	7.0	10.6#





#60

Isopropylbenzene

Concen: 2.367 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

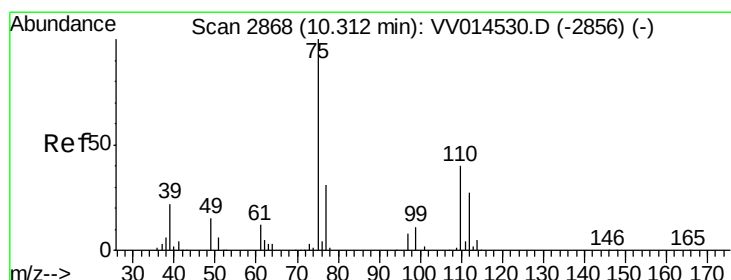
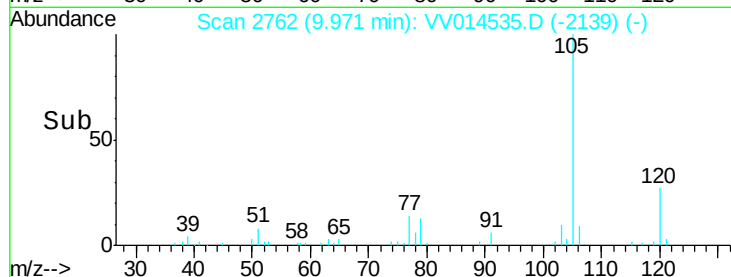
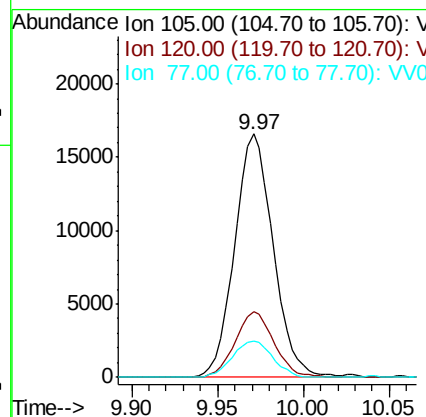
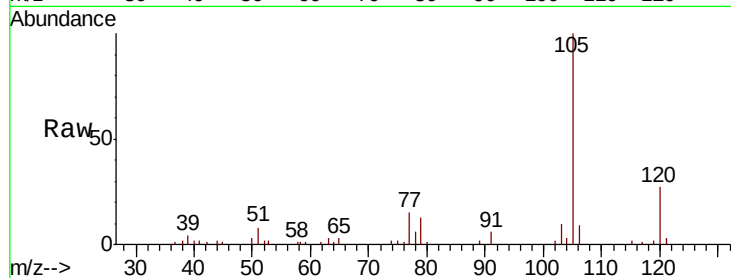
ClientSampleId :

MDL03

Tot Ion:	105	Resp:	25976
Ion Ratio	Lower	Upper	
105	100		
120	27.1	21.5	32.3
77	15.5	12.2	18.4

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#61

1,2,3-Trichloropropane

Concen: 2.487 ug/L

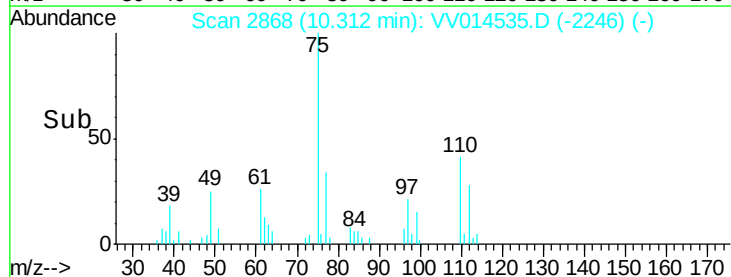
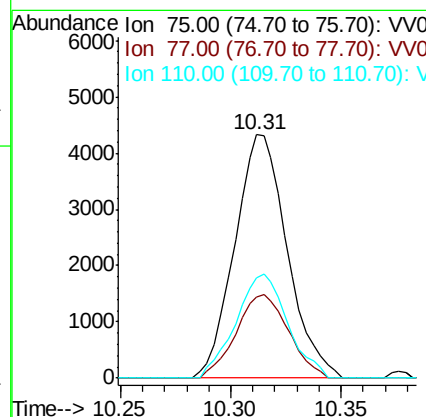
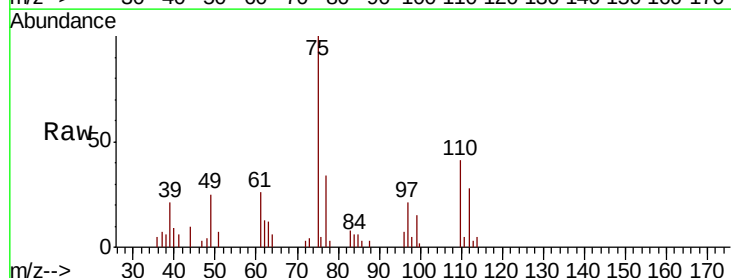
RT: 10.31 min Scan# 2868

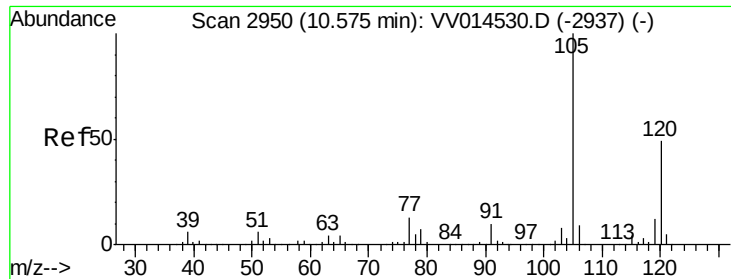
Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Tgt Ion:	75	Resp:	7147
Ion Ratio	Lower	Upper	
75	100		
77	34.3	25.8	38.8
110	42.1	32.4	48.6





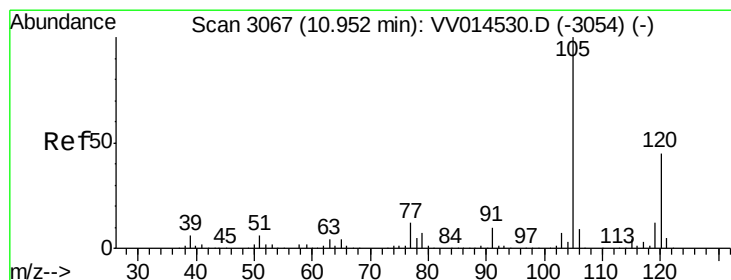
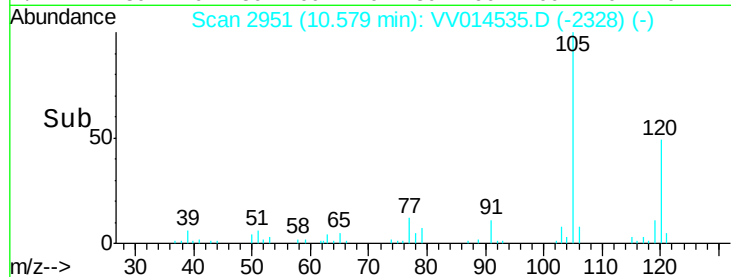
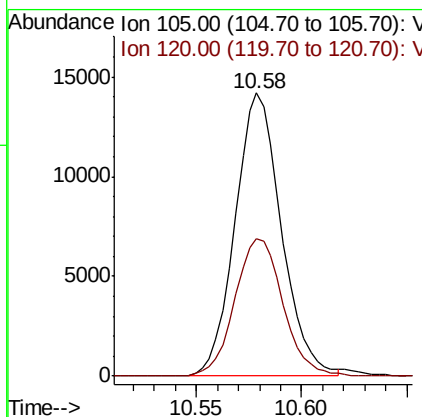
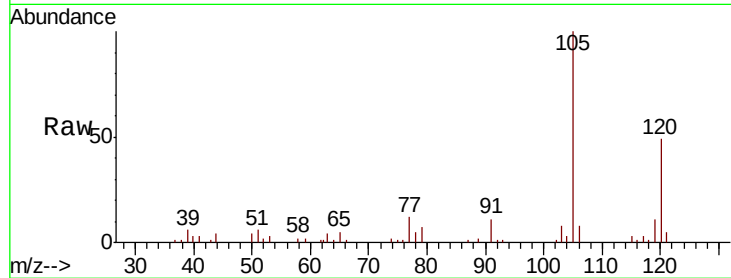
#62
 1,3,5-Trimethylbenzene
 Concen: 2.298 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion:105 Resp: 21589
 Ion Ratio Lower Upper
 105 100
 120 50.5 39.0 58.6

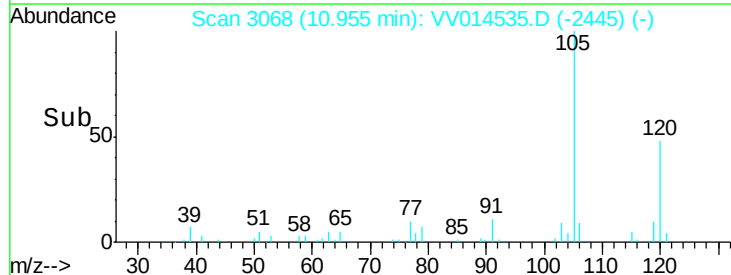
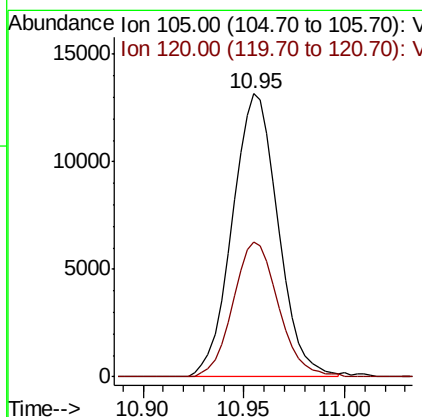
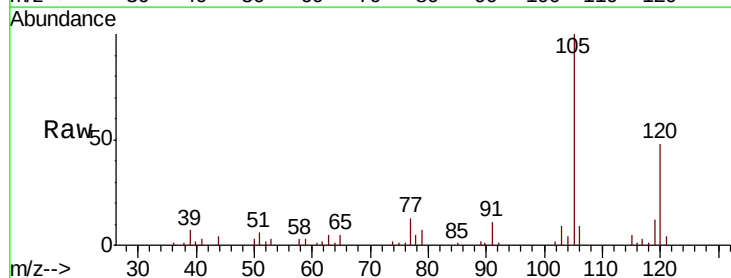
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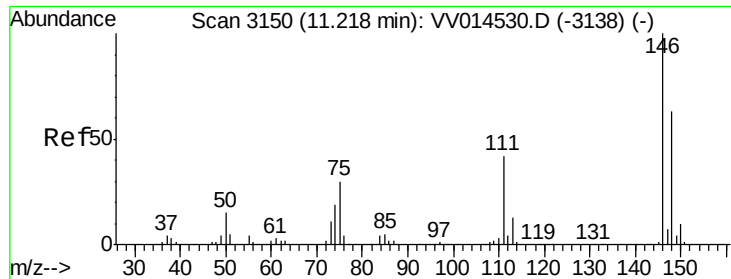
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.263 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Tgt Ion:105 Resp: 20958
 Ion Ratio Lower Upper
 105 100
 120 47.3 36.2 54.4





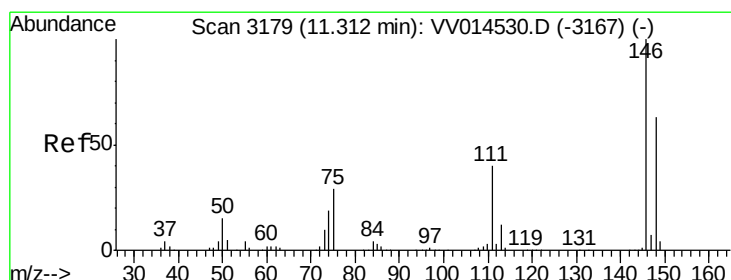
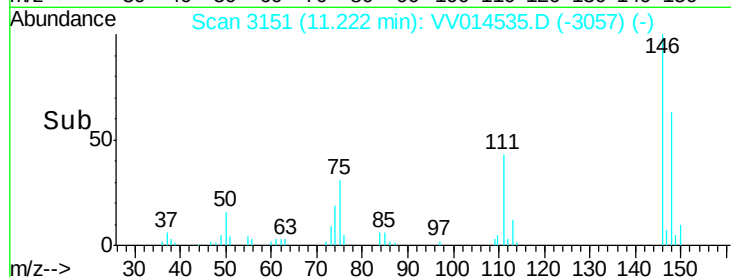
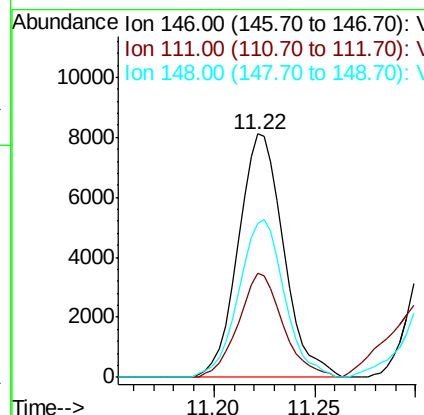
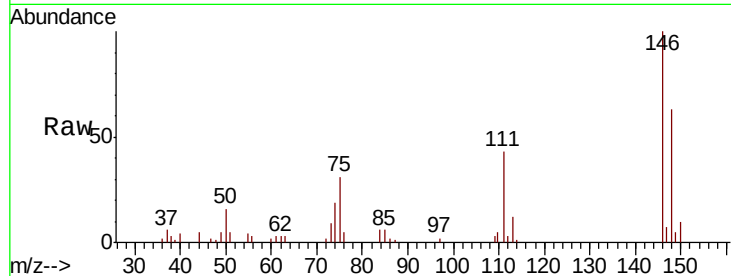
#64
 1,3-Dichlorobenzene
 Concen: 2.475 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.6	28.9	53.7
148	63.4	44.4	82.5

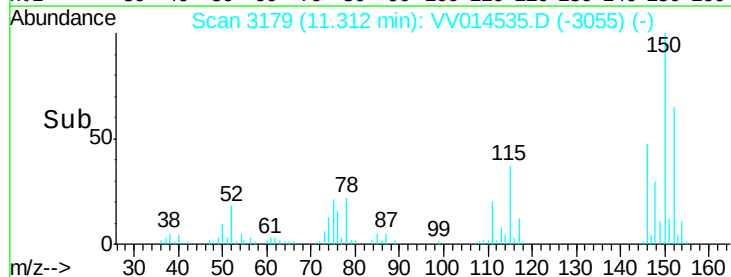
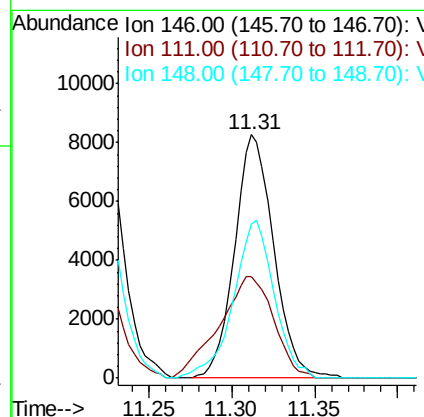
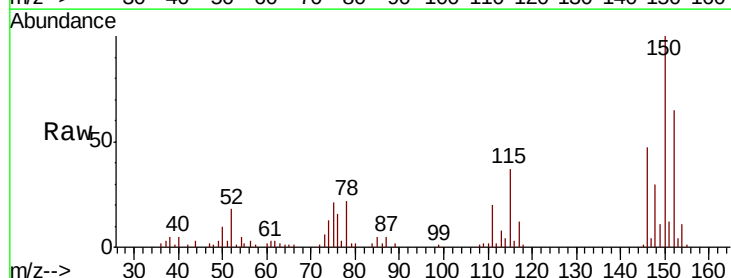
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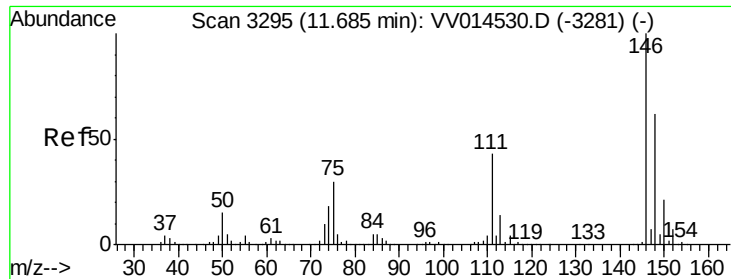
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#65
 1,4-Dichlorobenzene
 Concen: 2.554 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	28.1	52.3
148	63.4	44.4	82.4





#67

1,2-Dichlorobenzene

Concen: 2.556 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Instrument :

MSVOA_V

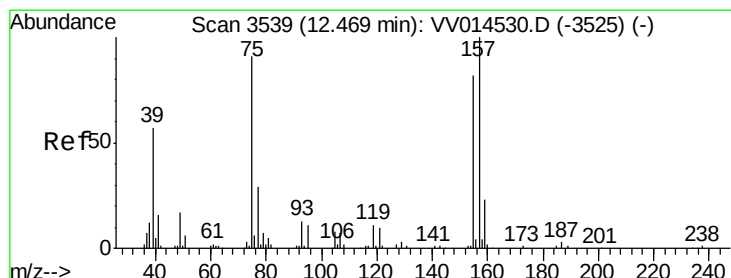
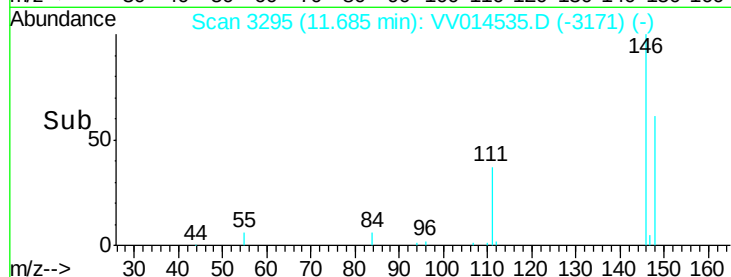
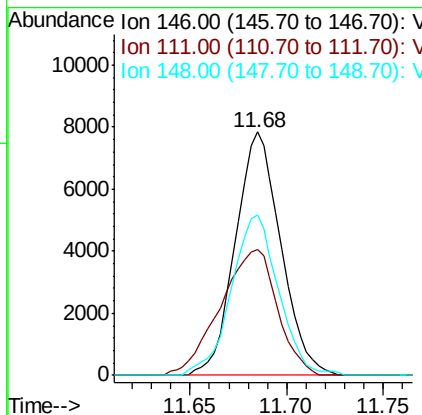
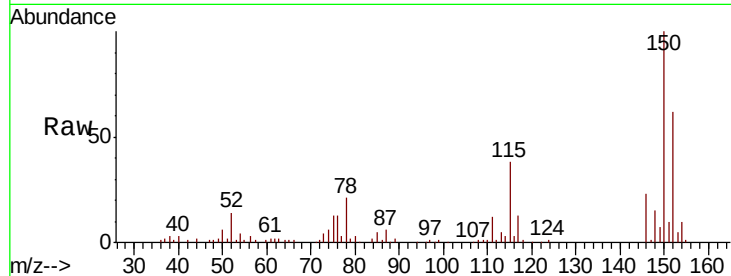
ClientSampled :

MDL03

Tot Ion:	146	Resp:	12829
Ion Ratio	Lower	Upper	
146	100		
111	51.8	34.6	51.8
148	66.1	50.2	75.4

Manual Integrations
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MMDadoda
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#68

1,2-Dibromo-3-chloropropane

Concen: 2.671 ug/L

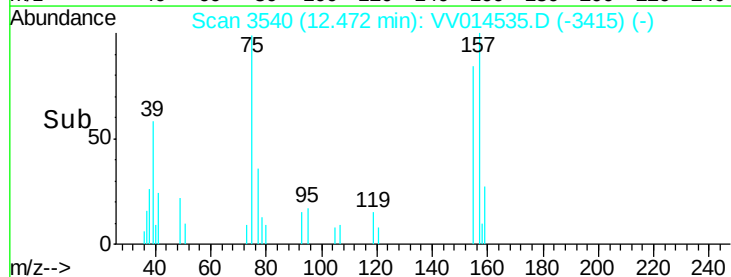
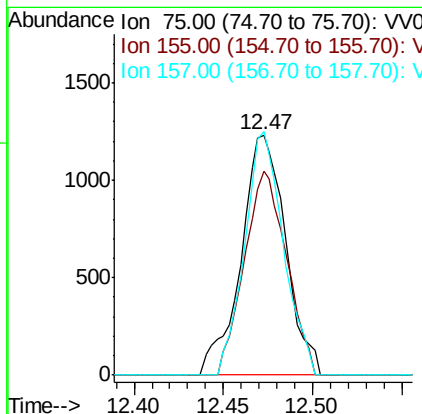
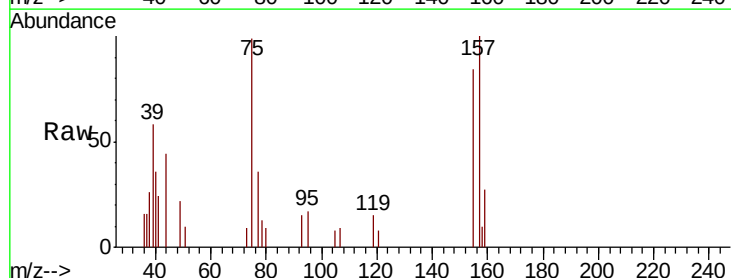
RT: 12.47 min Scan# 3540

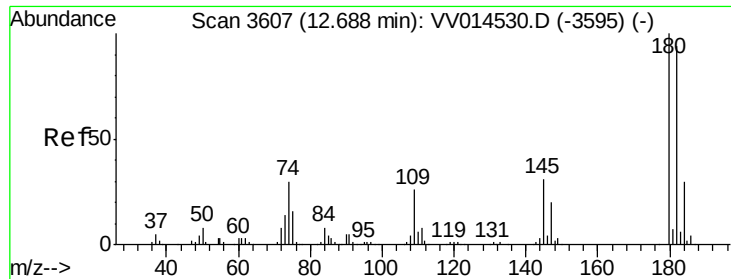
Delta R.T. 0.00 min

Lab File: VV014535.D

Acq: 07 Feb 2020 13:44

Tgt Ion:	75	Resp:	2150
Ion Ratio	Lower	Upper	
75	100		
155	85.1	68.3	102.5
157	101.4	87.1	130.7





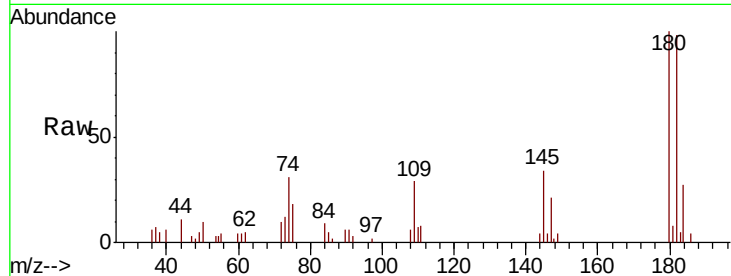
#69
 1,3,5-Trichlorobenzene
 Concen: 2.351 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.0	112.4
184	29.2	24.2	36.2
145	33.1	24.3	36.5

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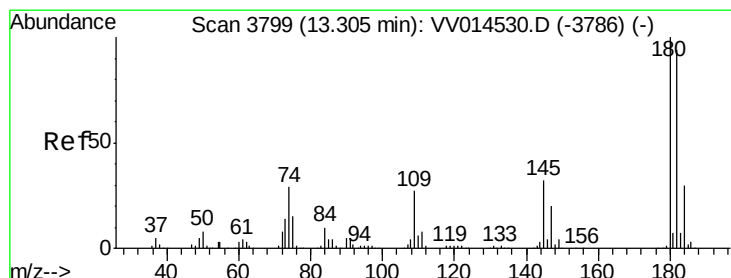
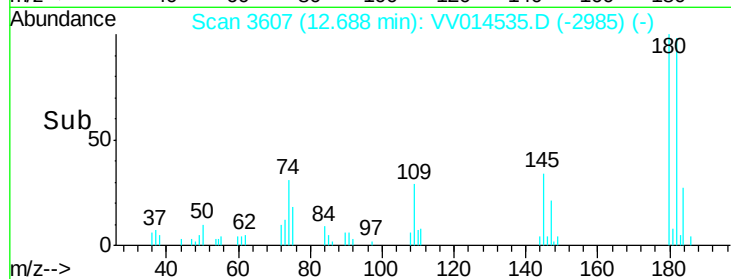
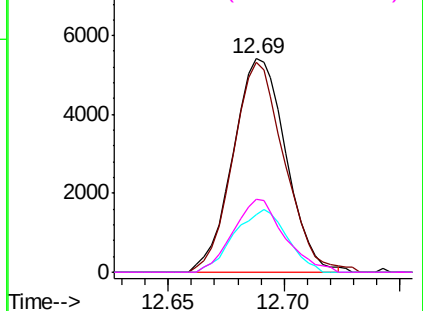
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

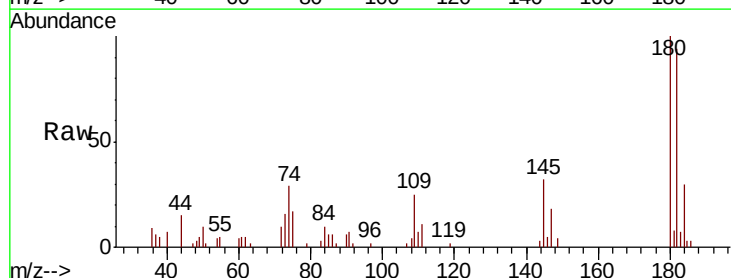
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 2.326 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014535.D
 Acq: 07 Feb 2020 13:44

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.0	76.0	114.0
145	33.0	25.3	37.9

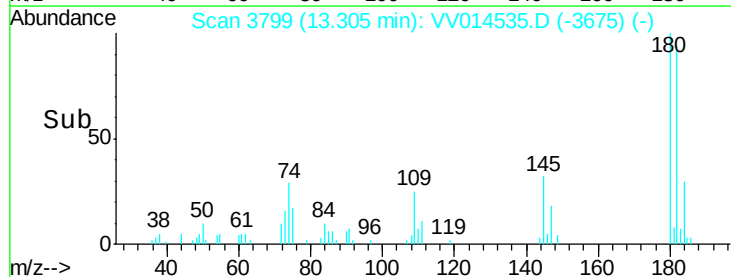
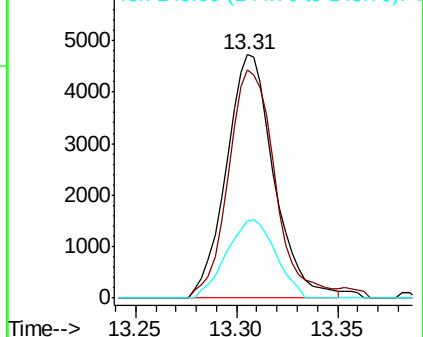


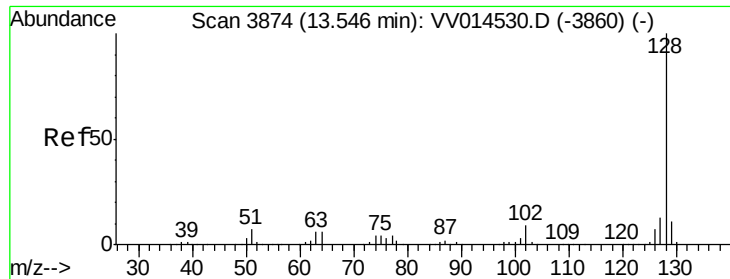
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





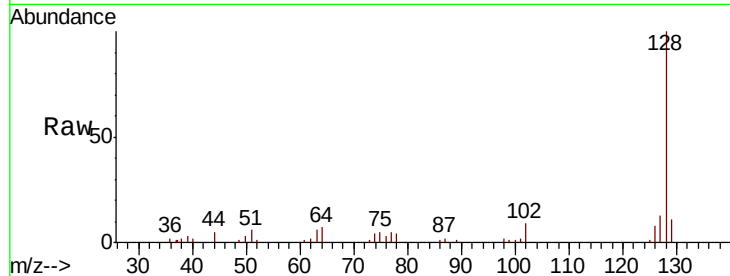
#71
Naphthalene
Concen: 2.362 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.4	8.7	13.1

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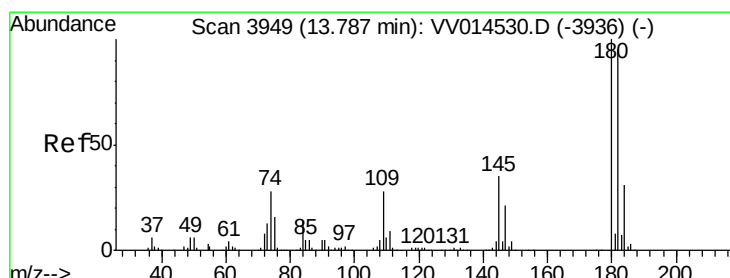
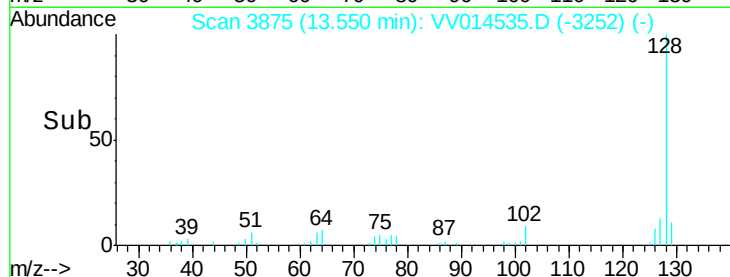
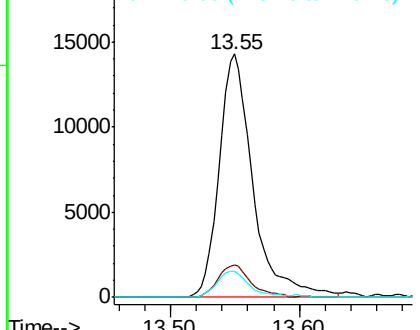


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 2.221 ug/L
RT: 13.79 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VV014535.D
Acq: 07 Feb 2020 13:44

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	75.2	112.8
145	34.3	27.1	40.7

Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

