

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV020820\
 Data File : VV014537.D
 Acq On : 07 Feb 2020 14:32
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 2/10/2020 11:56:40 AM

Quant Time: Feb 08 00:49:50 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	343289	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	318273	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	161917	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	79914	42.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.86%
7) Chloroethane-d5	1.59	69	56495	44.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.08%
11) 1,1-Dichloroethene-d2	2.13	63	98926	34.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.98%
21) 2-Butanone-d5	3.92	46	139503	97.08	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.08%
24) Chloroform-d	4.40	84	202125	47.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.28%
26) 1,2-Dichloroethane-d4	5.08	65	130252	50.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.60%
32) Benzene-d6	5.10	84	435471	49.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.82%
36) 1,2-Dichloropropane-d6	6.11	67	130805	48.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.80%
41) Toluene-d8	7.36	98	410856	50.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.26%
43) trans-1,3-Dichloropropene-	7.66	79	71033	49.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.04%
47) 2-Hexanone-d5	8.13	63	118543	103.11	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.11%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	178979	51.00	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.00%
66) 1,2-Dichlorobenzene-d4	11.67	152	157858	50.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.66%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	6921	2.517 ug/L	100
3) Chloromethane	1.26	50	6605	2.372 ug/L	97
5) Vinyl chloride	1.33	62	5012	2.350 ug/L #	67
6) Bromomethane	1.54	94	2147	2.189 ug/L	91
8) Chloroethane	1.60	64	2540	2.397 ug/L	88
9) Trichlorofluoromethane	1.77	101	7175	2.498 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3970	2.878 ug/L #	83
12) 1,1-Dichloroethene	2.14	96	3475	2.634 ug/L #	1
13) Acetone	2.19	43	6269	5.210 ug/L	92
14) Carbon disulfide	2.32	76	14609	2.280 ug/L	99
15) Methyl Acetate	2.46	43	4295	1.856 ug/L	92
16) Methylene chloride	2.54	84	6519	2.602 ug/L	94
17) trans-1,2-Dichloroethene	2.80	96	5499	2.366 ug/L	94
18) Methyl tert-butyl Ether	2.80	73	17431	2.368 ug/L	97
19) 1,1-Dichloroethane	3.23	63	9942	2.392 ug/L	96
20) cis-1,2-Dichloroethene	3.97	96	6187m	2.365 ug/L	
22) 2-Butanone	4.04	43	7587m	4.264 ug/L	

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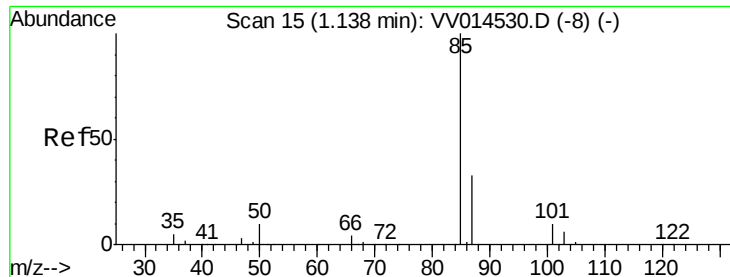
Manual Integrations
 APPROVED

MMDadoda
 2/10/2020 11:56:40 AM

Quant Time: Feb 08 00:49:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	2969	2.397	ug/L	94
25) Chloroform	4.42	83	17796	4.210	ug/L	97
27) 1,2-Dichloroethane	5.18	62	7113	2.259	ug/L	98
29) Cyclohexane	4.73	56	8861	2.264	ug/L	94
30) 1,1,1-Trichloroethane	4.66	97	8738	2.406	ug/L	94
31) Carbon tetrachloride	4.87	117	7354	2.295	ug/L	99
33) Benzene	5.15	78	21839	2.334	ug/L	100
34) Trichloroethene	5.96	95	5805	2.340	ug/L	95
35) Methylcyclohexane	6.18	83	9501	2.344	ug/L	96
37) 1,2-Dichloropropane	6.22	63	5891	2.472	ug/L #	93
38) Bromodichloromethane	6.56	83	7192	2.249	ug/L #	93
39) cis-1,3-Dichloropropene	7.07	75	8578	2.158	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	12651	4.108	ug/L	93
42) Toluene	7.43	91	25548	2.547	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	8427	2.364	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	5623	2.459	ug/L	96
46) Tetrachloroethene	8.01	164	4822	2.548	ug/L	96
48) 2-Hexanone	8.18	43	11873	5.008	ug/L #	95
49) Dibromochloromethane	8.29	129	5968	2.312	ug/L	97
50) 1,2-Dibromoethane	8.39	107	6280	2.536	ug/L #	94
51) Chlorobenzene	8.92	112	16370	2.498	ug/L	98
52) Ethylbenzene	9.05	91	26866	2.388	ug/L	99
53) m,p-Xylene	9.18	106	10903	2.516	ug/L	89
54) o-Xylene	9.59	106	9742	2.349	ug/L	97
55) Styrene	9.60	104	15841	2.235	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.28	83	9628	2.687	ug/L #	96
59) Bromoform	9.77	173	3668	2.031	ug/L #	98
60) Isopropylbenzene	9.97	105	25121	2.294	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	6918	2.413	ug/L	95
62) 1,3,5-Trimethylbenzene	10.58	105	20993	2.240	ug/L	100
63) 1,2,4-Trimethylbenzene	10.96	105	19966	2.161	ug/L	95
64) 1,3-Dichlorobenzene	11.22	146	12672	2.453	ug/L	97
65) 1,4-Dichlorobenzene	11.32	146	12795	2.406	ug/L	98
67) 1,2-Dichlorobenzene	11.68	146	12640	2.524	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.47	75	1842	2.294	ug/L #	85
69) 1,3,5-Trichlorobenzene	12.69	180	8492	2.334	ug/L	98
70) 1,2,4-trichlorobenzene	13.31	180	7880	2.359	ug/L	96
71) Naphthalene	13.55	128	24409	2.224	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	7379	2.273	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.517 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 6921

Ion Ratio Lower Upper

85 100

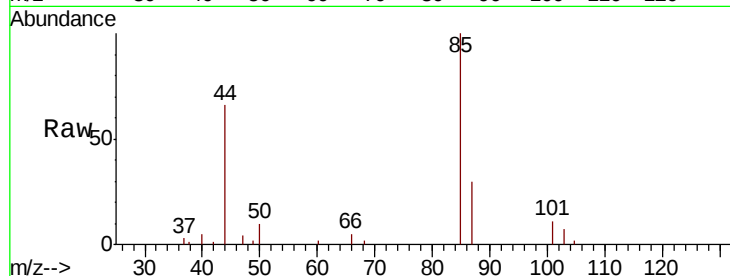
87 31.9 25.7 38.5

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VV014537.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV014537.D (-1) (-)

1.14

8000

6000

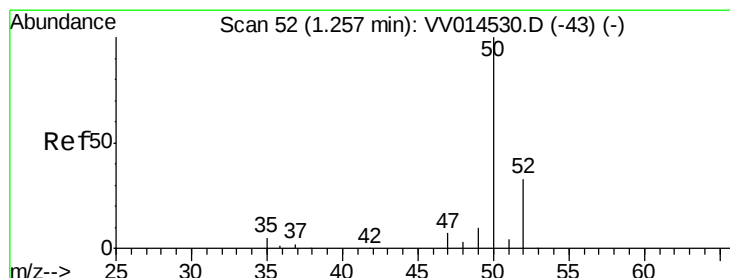
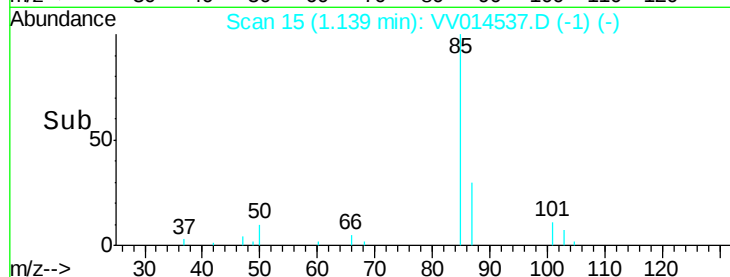
4000

2000

0

Time-->

1.10 1.12 1.14 1.16 1.18



#3

Chloromethane

Concen: 2.372 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014537.D

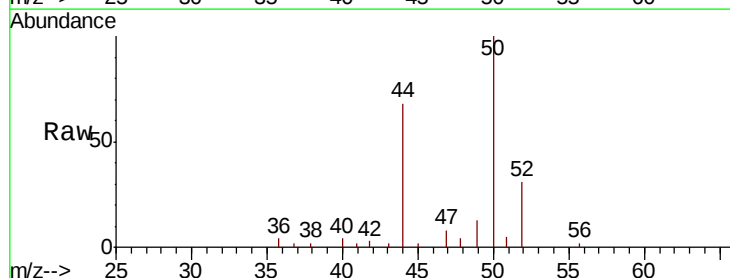
Acq: 07 Feb 2020 14:32

Tgt Ion: 50 Resp: 6605

Ion Ratio Lower Upper

50 100

52 30.8 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV014537.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV014537.D (-1) (-)

1.26

6000

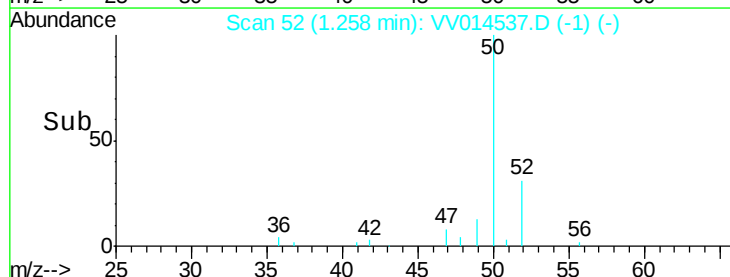
4000

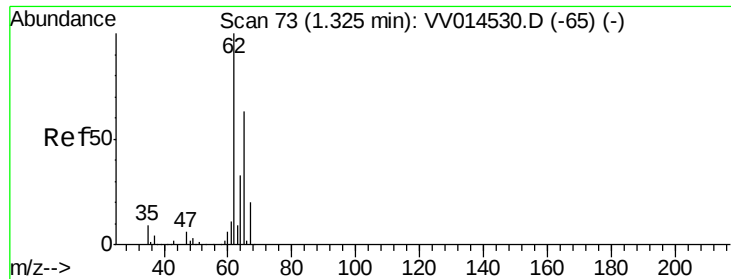
2000

0

Time-->

1.22 1.24 1.26 1.28 1.30





#5

Vinyl chloride

Concen: 2.350 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 62 Resp: 5012

Ion Ratio Lower Upper

62 100

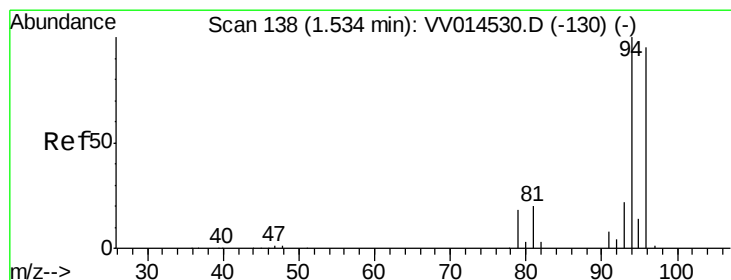
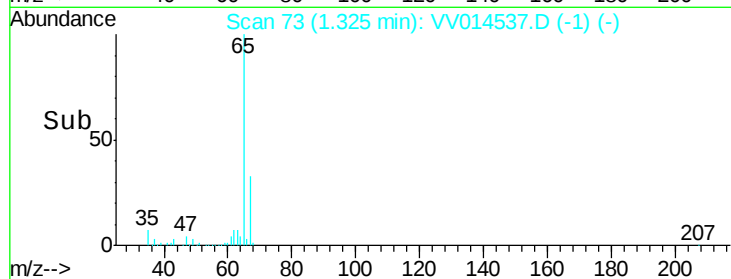
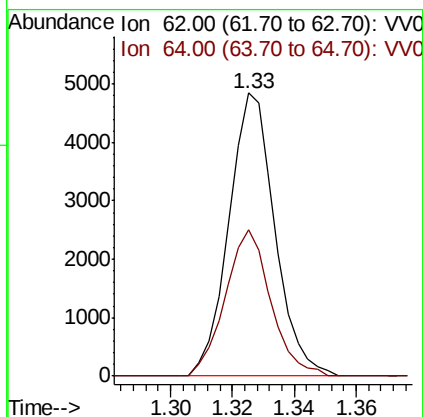
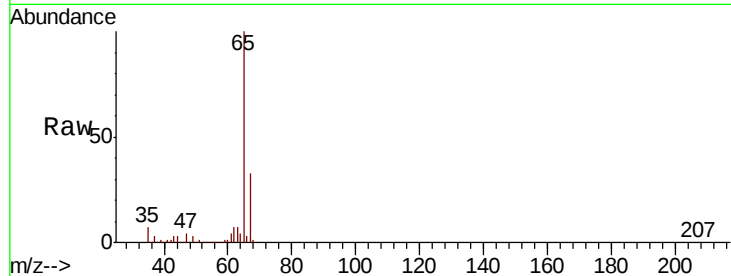
64 51.6 23.1 42.9#

Manual Integrations

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2/10/2020 11:56:40 AM



#6

Bromomethane

Concen: 2.189 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014537.D

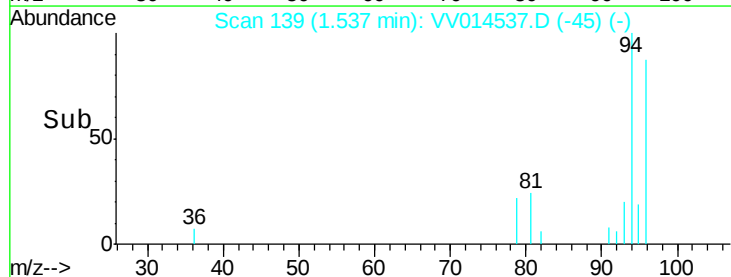
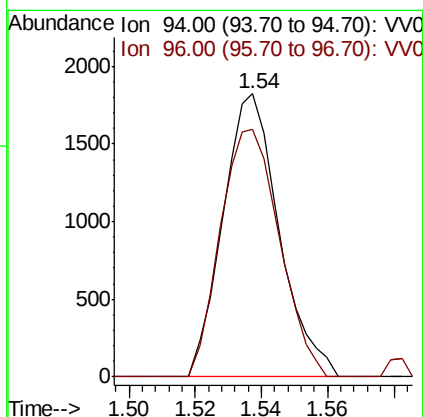
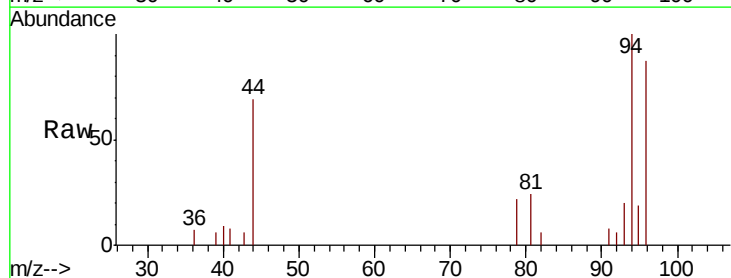
Acq: 07 Feb 2020 14:32

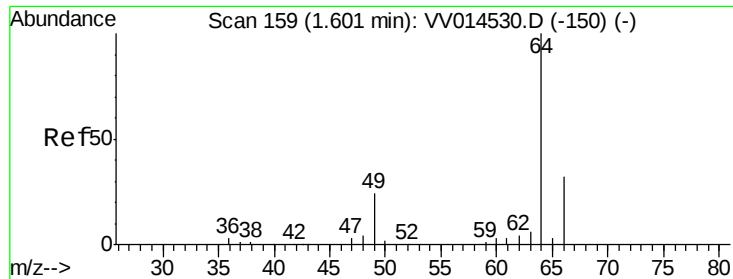
Tgt Ion: 94 Resp: 2147

Ion Ratio Lower Upper

94 100

96 87.4 67.3 124.9





#8

Chloroethane

Concen: 2.397 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 64 Resp: 2540

Ion Ratio Lower Upper

64 100

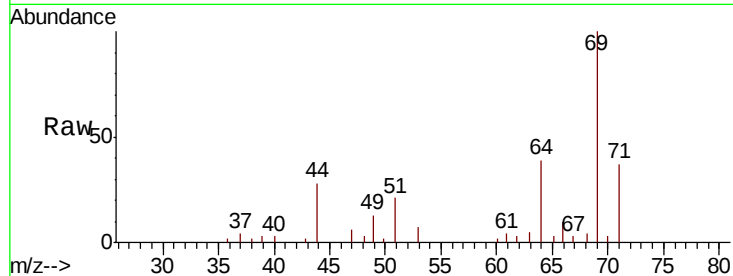
66 25.5 22.4 41.6

Manual Integrations

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MMDadoda

2/10/2020 11:56:40 AM



Abundance Ion 64.00 (63.70 to 64.70): VV014537.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014537.D (-150) (-)

1.60

2000

1500

1000

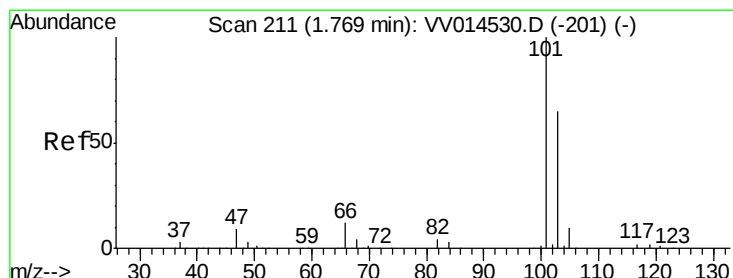
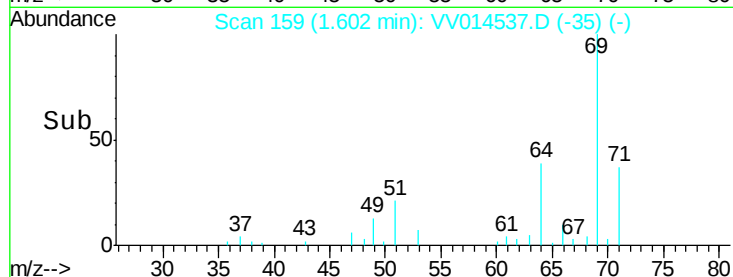
500

0

1.60

1.65

Time-->



#9

Trichlorofluoromethane

Concen: 2.498 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014537.D

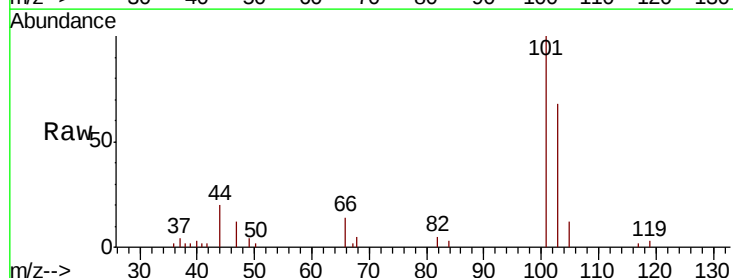
Acq: 07 Feb 2020 14:32

Tgt Ion: 101 Resp: 7175

Ion Ratio Lower Upper

101 100

103 64.8 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV014537.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014537.D (-201) (-)

1.77

6000

5000

4000

3000

2000

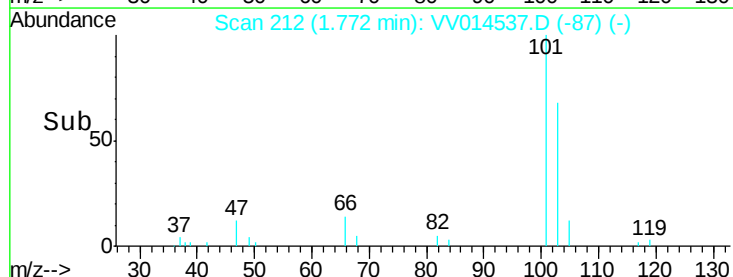
1000

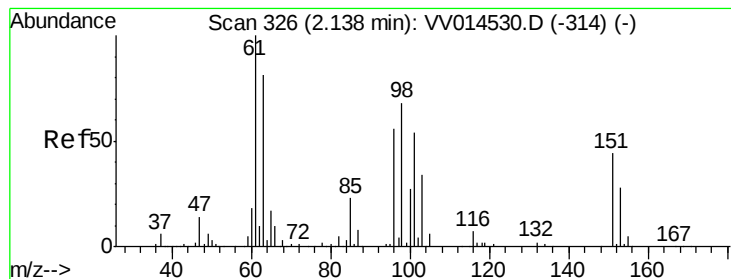
0

1.75

1.80

Time-->





#10

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

Concen: 2.878 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

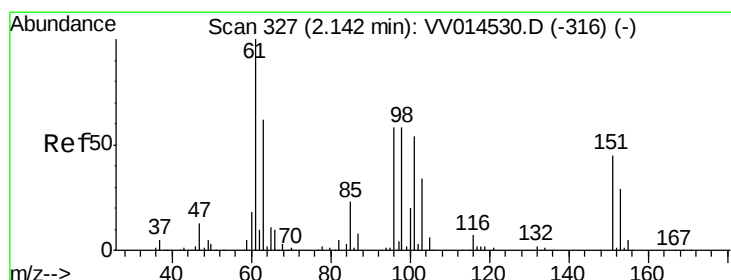
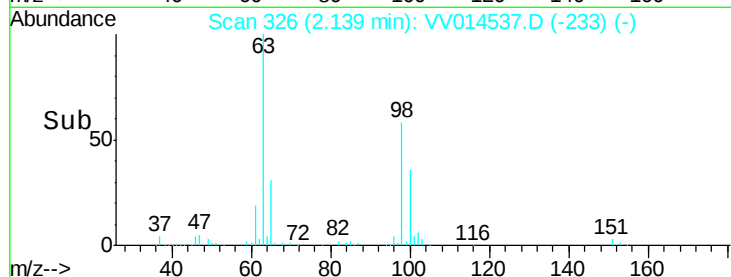
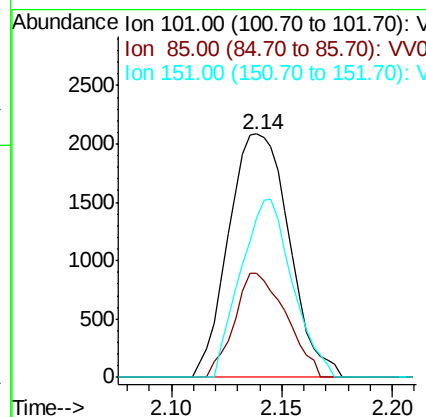
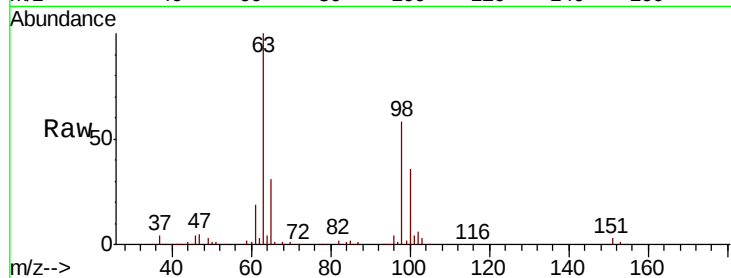
ClientSampled :

MDL01

Tot Ion:	101	Resp:	3970
Ion	Ratio	Lower	Upper
101	100		
85	36.5	35.0	52.6
151	62.5	64.4	96.6#

Manual Integrations
APPROVED

MMDadoda
2/10/2020 11:56:40 AM



#12

1,1-Dichloroethene

Concen: 2.634 ug/L

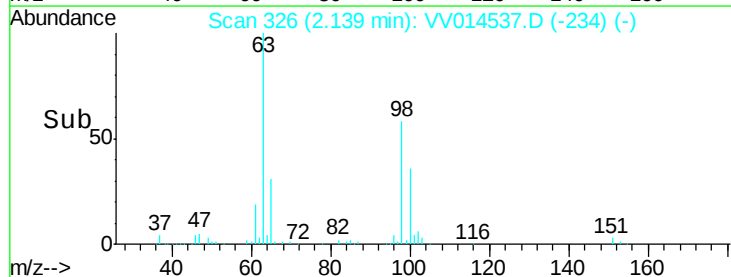
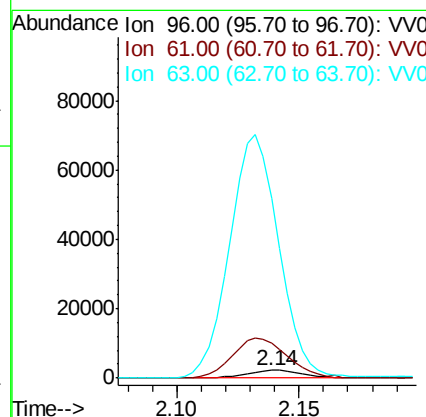
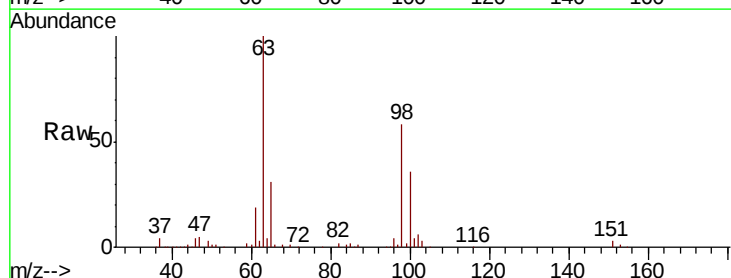
RT: 2.14 min Scan# 326

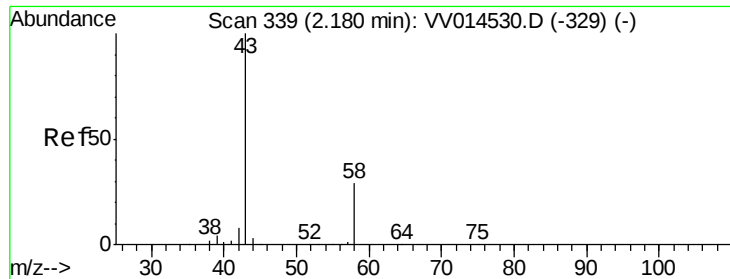
Delta R.T. -0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Tgt Ion:	96	Resp:	3475
Ion	Ratio	Lower	Upper
96	100		
61	446.6	125.0	232.2#
63	2331.5	101.6	188.6#





#13

Acetone

Concen: 5.210 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 6269

Ion Ratio Lower Upper

43 100

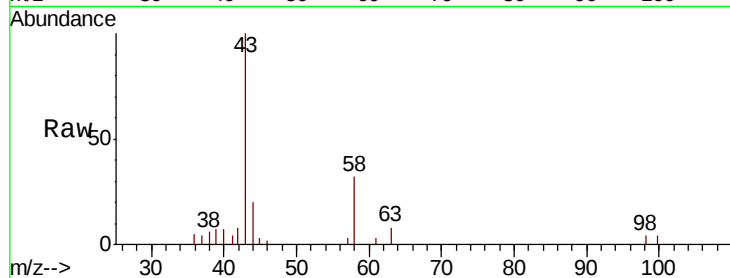
58 35.3 0.0 61.8

Manual Integrations

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MMDadoda

2/10/2020 11:56:40 AM

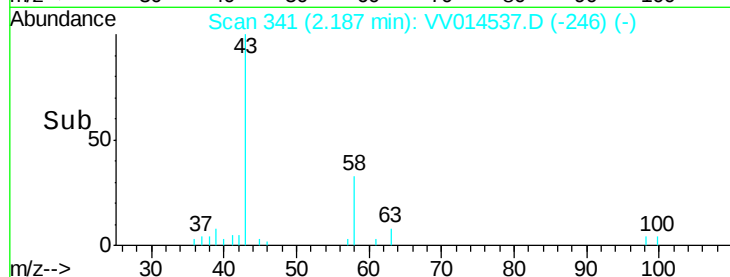


Abundance Ion 43.00 (42.70 to 43.70): VV014537.D (-246) (-)

Ion 58.00 (57.70 to 58.70): VV014537.D (-246) (-)

2.19

Time-->



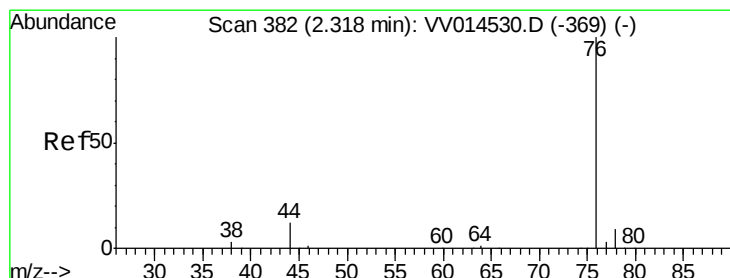
Abundance

Ion 43.00 (42.70 to 43.70): VV014537.D (-246) (-)

Ion 58.00 (57.70 to 58.70): VV014537.D (-246) (-)

2.19

Time-->



#14

Carbon disulfide

Concen: 2.280 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV014537.D

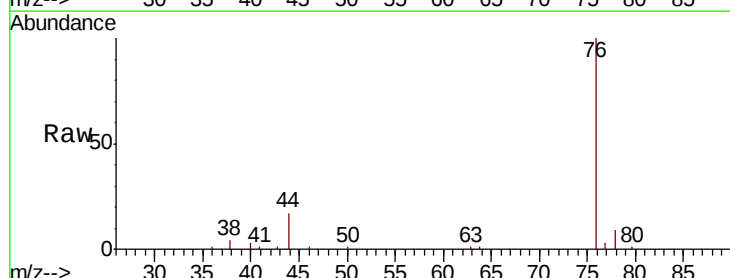
Acq: 07 Feb 2020 14:32

Tgt Ion: 76 Resp: 14609

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2

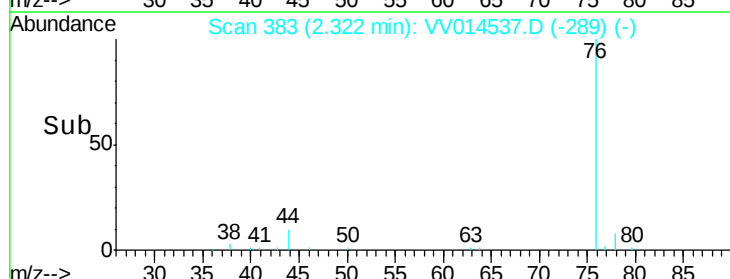


Abundance Ion 76.00 (75.70 to 76.70): VV014537.D (-289) (-)

Ion 78.00 (77.70 to 78.70): VV014537.D (-289) (-)

2.32

Time-->



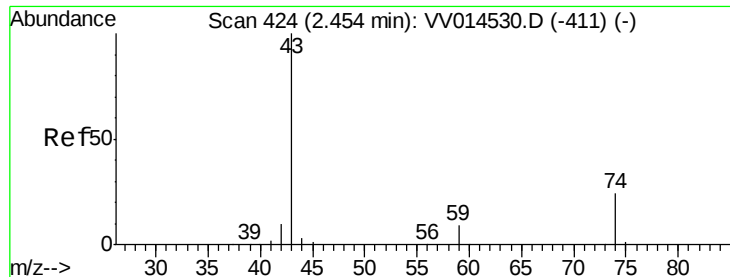
Abundance

Ion 76.00 (75.70 to 76.70): VV014537.D (-289) (-)

Ion 78.00 (77.70 to 78.70): VV014537.D (-289) (-)

2.32

Time-->



#15

Methvl Acetate

Concen: 1.856 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 43 Resp: 4295

Ion Ratio Lower Upper

43 100

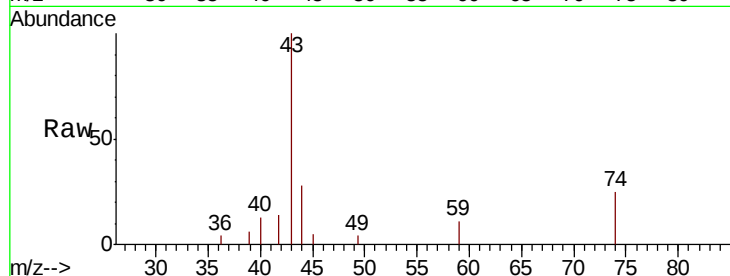
74 28.1 19.4 29.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.46

2500

2000

1500

1000

500

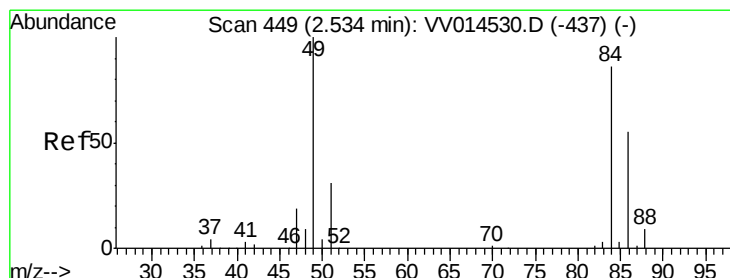
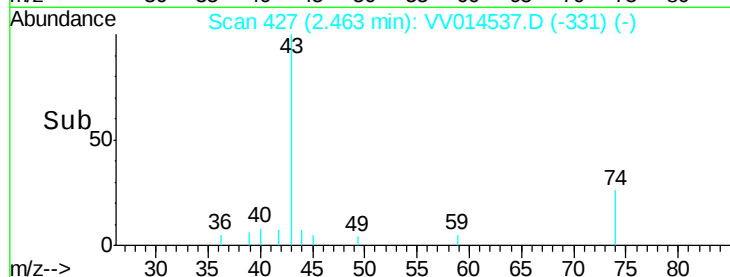
0

Time-->

2.40

2.45

2.50



#16

Methylene chloride

Concen: 2.602 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

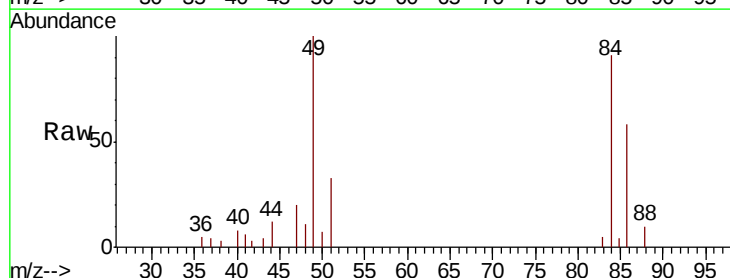
Tgt Ion: 84 Resp: 6519

Ion Ratio Lower Upper

84 100

86 64.1 44.6 82.8

49 109.7 83.2 154.4



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

5000

4000

3000

2000

1000

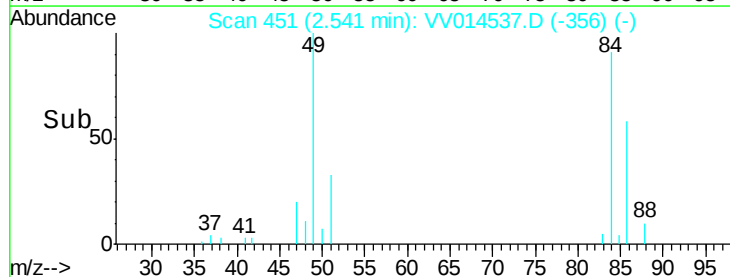
0

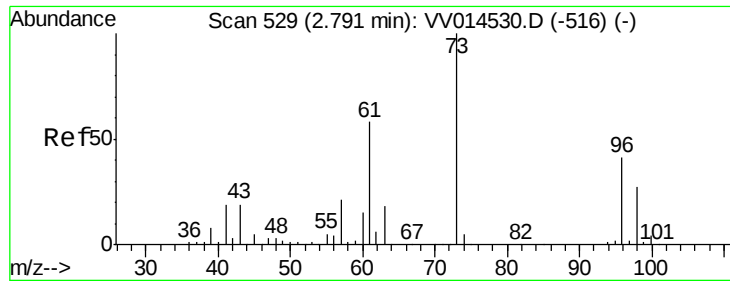
Time-->

2.50

2.55

2.60





#17

trans-1,2-Dichloroethene

Concen: 2.366 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

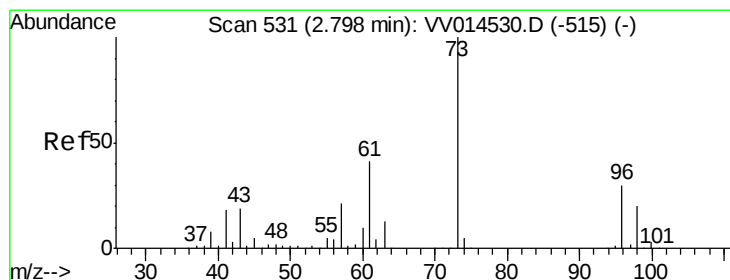
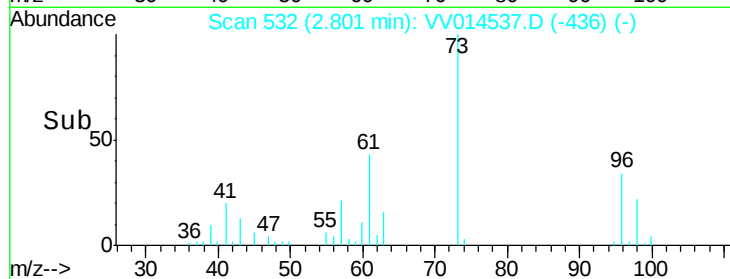
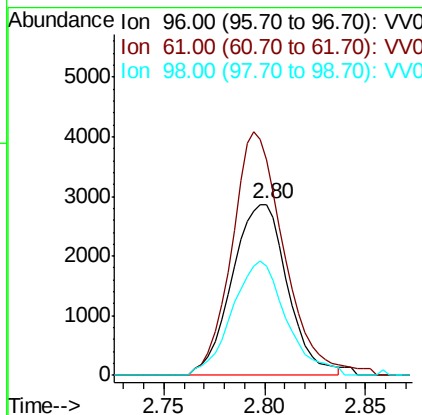
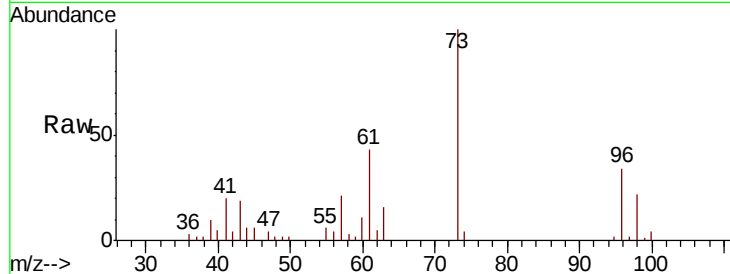
ClientSampled :

MDL01

Tot Ion:	96	Resp:	5499
Ion	Ratio	Lower	Upper
96	100		
61	125.8	95.8	178.0
98	64.2	45.1	83.7

Manual Integrations
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#18

Methyl tert-butyl Ether

Concen: 2.368 ug/L

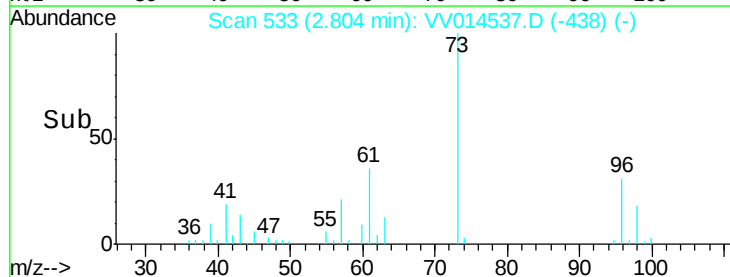
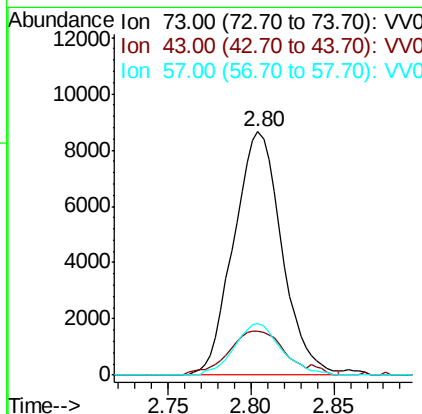
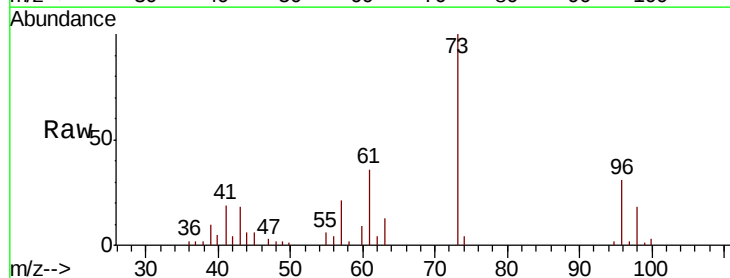
RT: 2.80 min Scan# 533

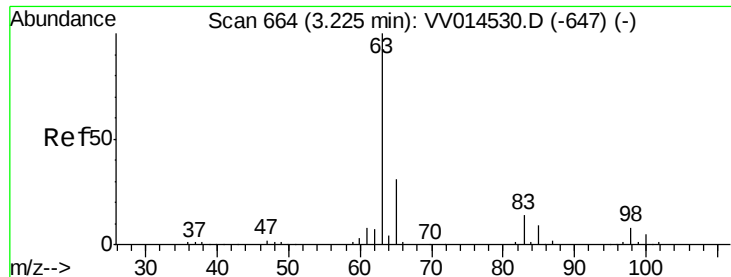
Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Tgt Ion:	73	Resp:	17431
Ion	Ratio	Lower	Upper
73	100		
43	20.6	14.9	22.3
57	20.7	17.5	26.3





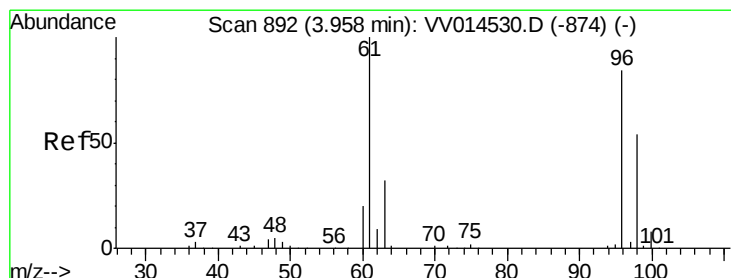
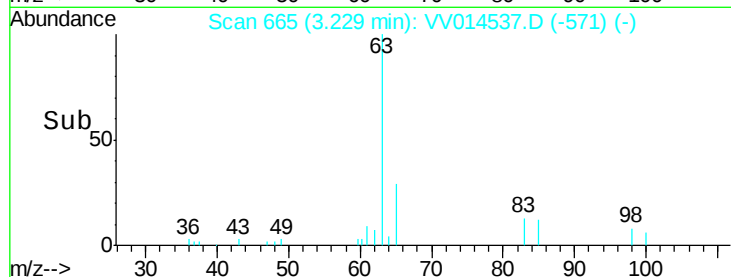
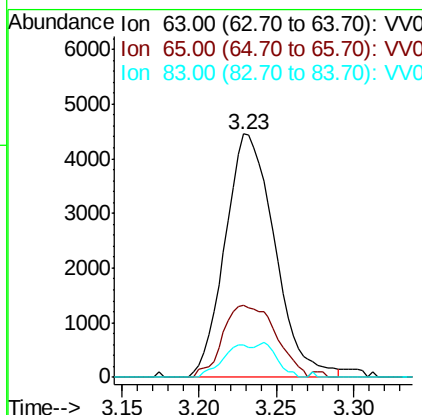
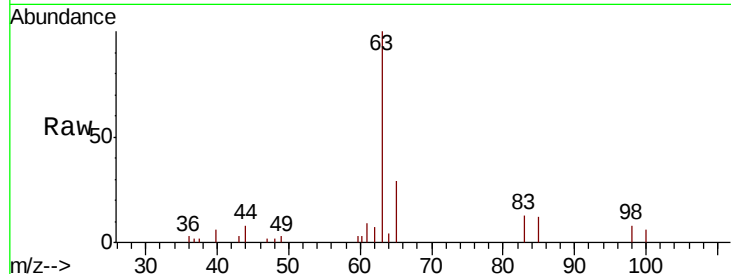
#19
 1,1-Dichloroethane
 Concen: 2.392 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.4	22.5	41.7
83	13.1	9.7	18.1

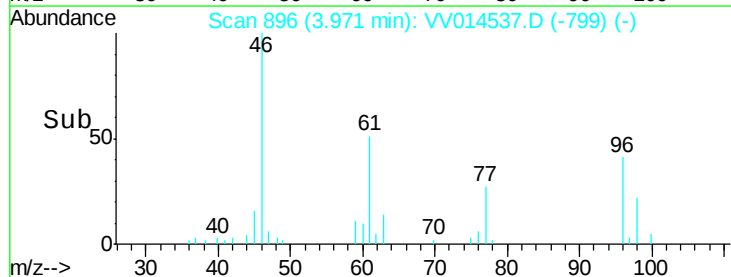
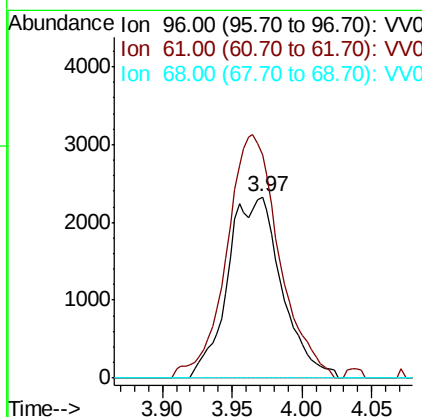
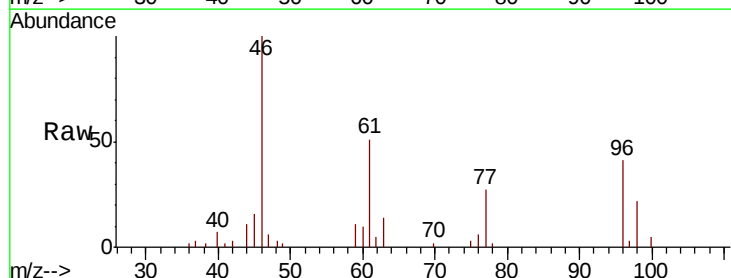
Manual Integrations
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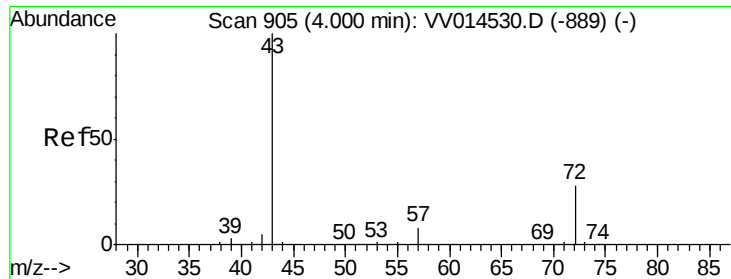
MMDadoda
 2/10/2020 11:56:40 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.365 ug/L m
 RT: 3.97 min Scan# 896
 Delta R.T. 0.01 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	122.9	85.2	158.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.264 ug/L m

RT: 4.04 min Scan# 916

Delta R.T. 0.04 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 43 Resp: 7587

Ion Ratio Lower Upper

43 100

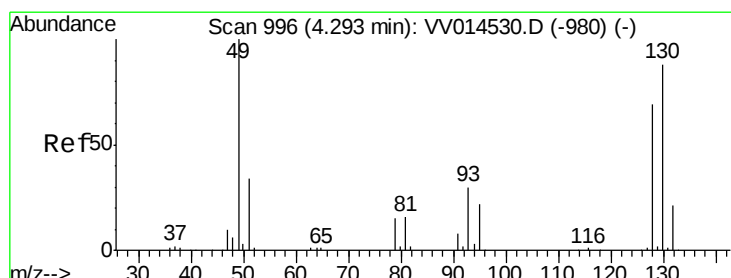
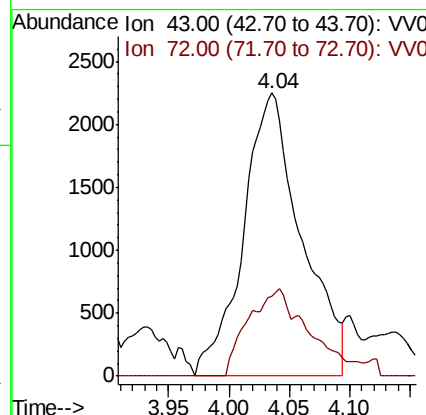
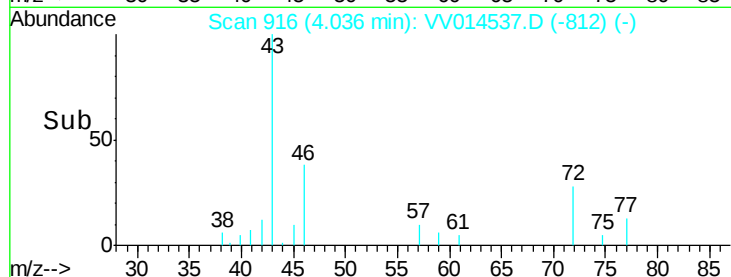
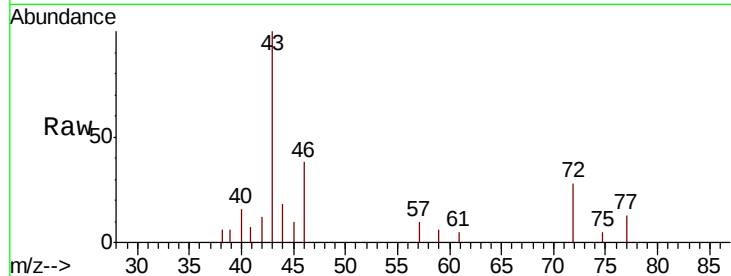
72 8.8 12.7 38.1#

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2/10/2020 11:56:40 AM



#23

Bromochloromethane

Concen: 2.397 ug/L

RT: 4.31 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Tgt Ion: 128 Resp: 2969

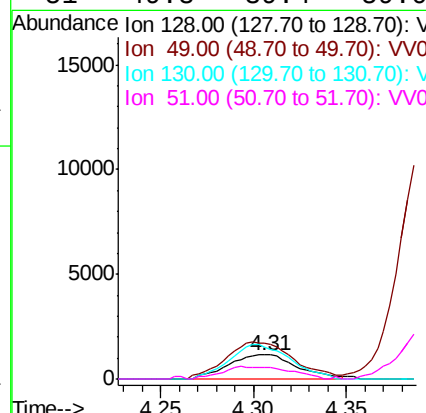
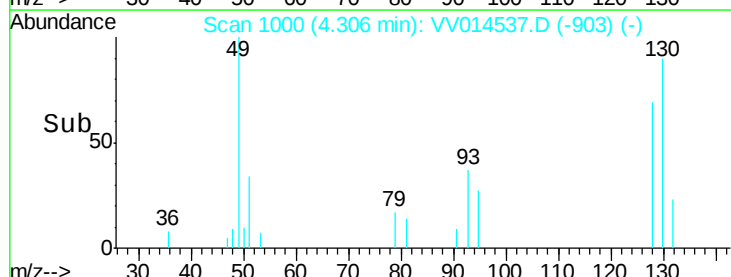
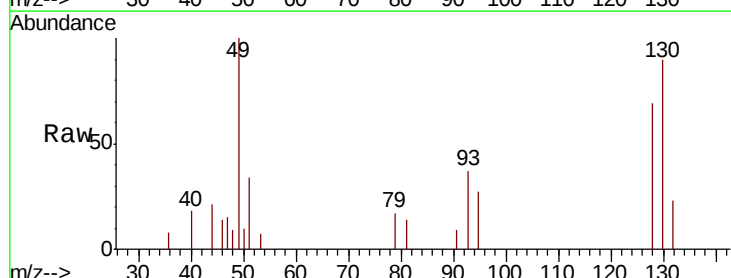
Ion Ratio Lower Upper

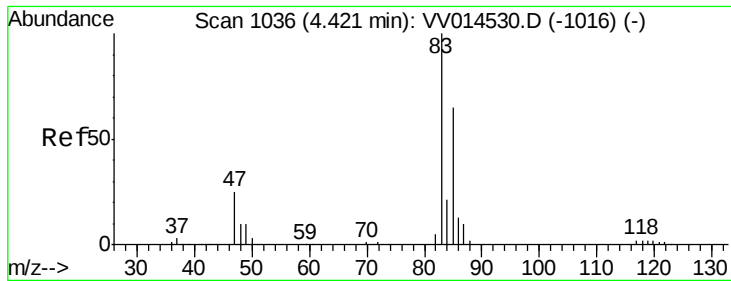
128 100

49 145.7 110.1 204.5

130 131.8 88.5 164.4

51 49.8 39.4 59.0





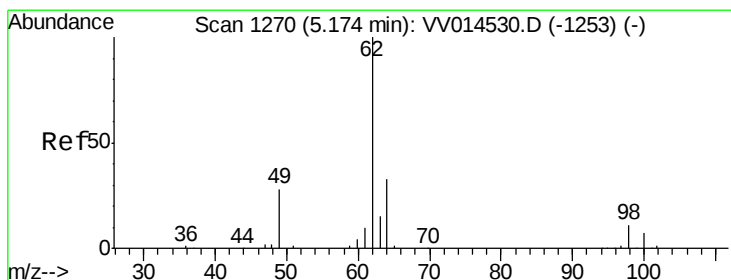
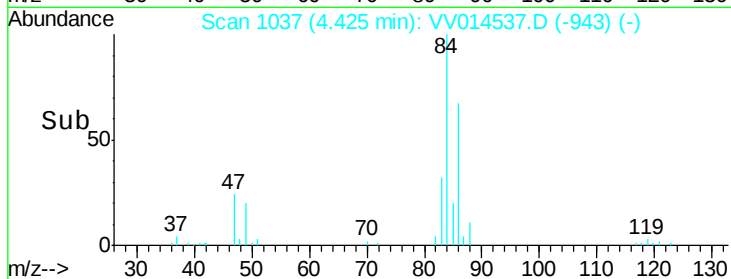
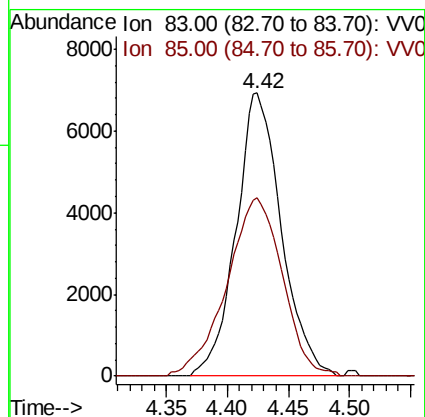
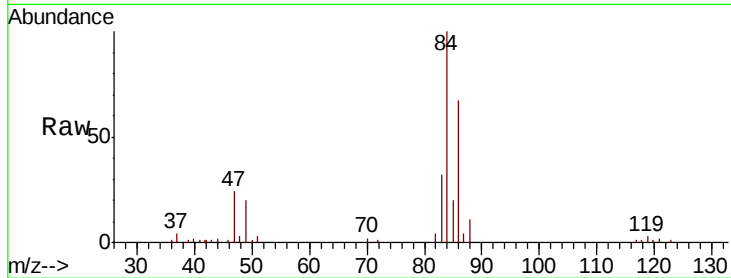
#25
Chloroform
Concen: 4.210 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	83	Resp	17796
Ion Ratio	100	Lower	Upper
85	63.0	45.8	85.0

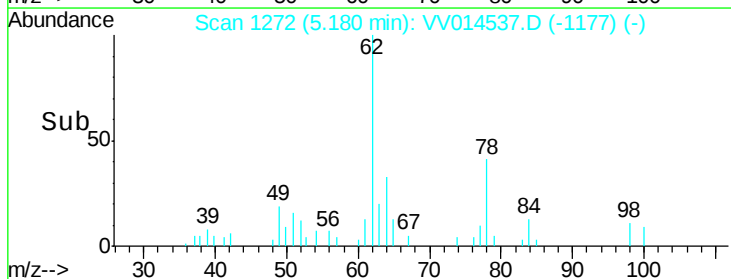
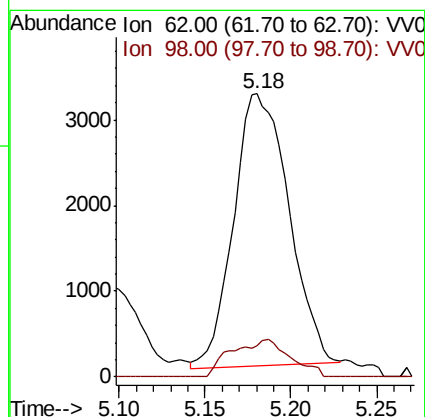
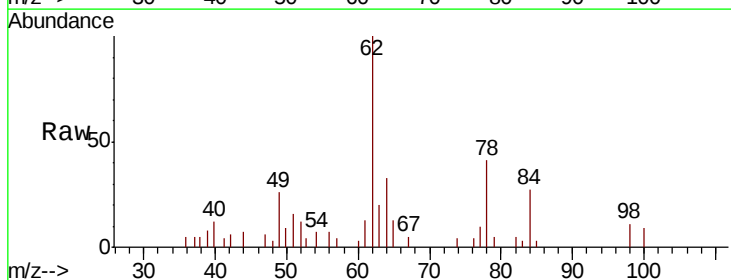
Manual Integrations
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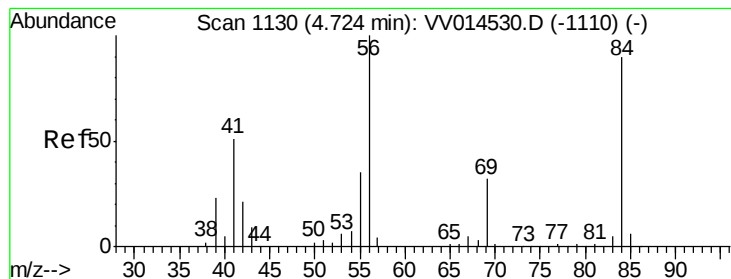
MMDadoda
2/10/2020 11:56:40 AM



#27
1,2-Dichloroethane
Concen: 2.259 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Tgt Ion	62	Resp	7113
Ion Ratio	100	Lower	Upper
98	11.1	8.2	12.4





#29

Cyclohexane

Concen: 2.264 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

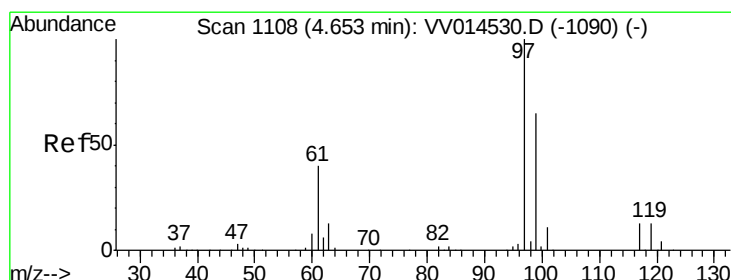
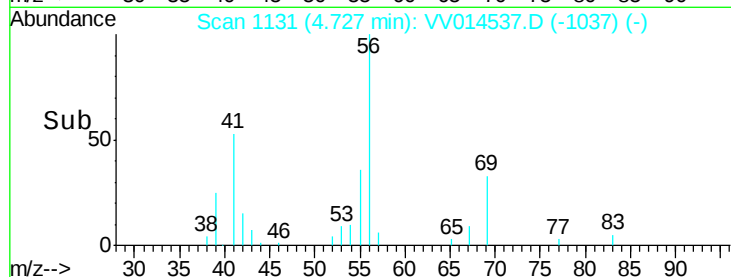
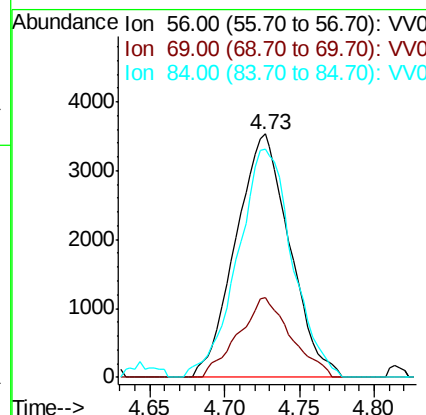
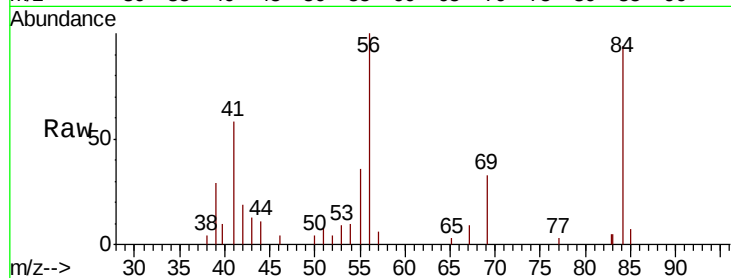
ClientSampled :

MDL01

Tot Ion:	56	Resp:	8861
Ion	Ratio	Lower	Upper
56	100		
69	31.8	25.2	37.8
84	95.0	69.8	104.8

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#30

1,1,1-Trichloroethane

Concen: 2.406 ug/L

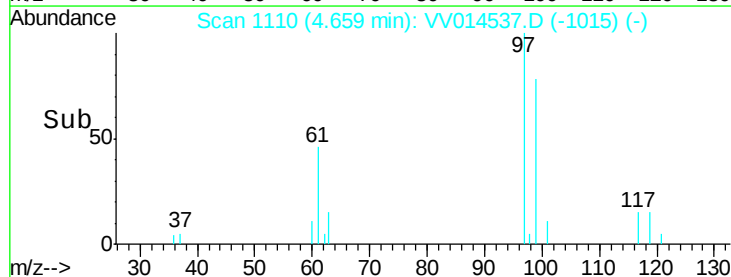
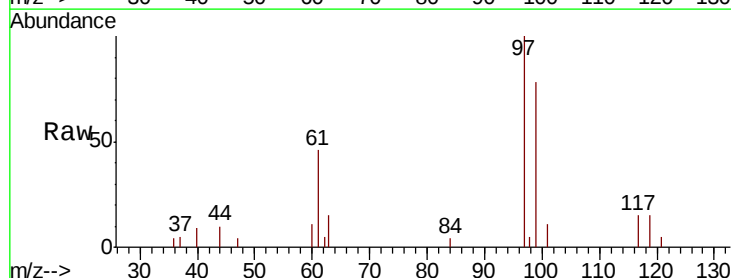
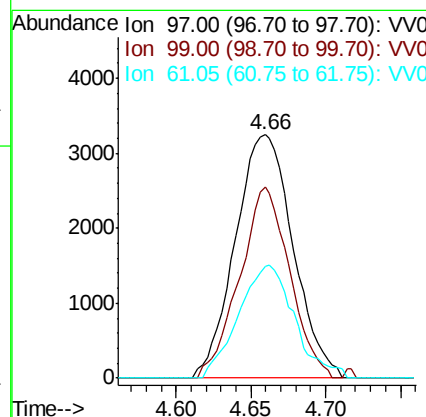
RT: 4.66 min Scan# 1110

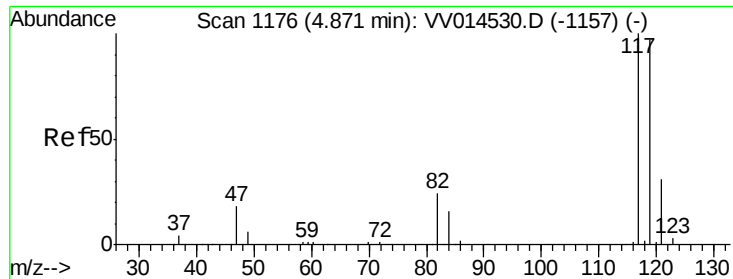
Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Tgt Ion:	97	Resp:	8738
Ion	Ratio	Lower	Upper
97	100		
99	68.0	50.6	76.0
61	44.9	33.0	49.4





#31

Carbon tetrachloride

Concen: 2.295 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion:117 Resp: 7354

Ion Ratio Lower Upper

117 100

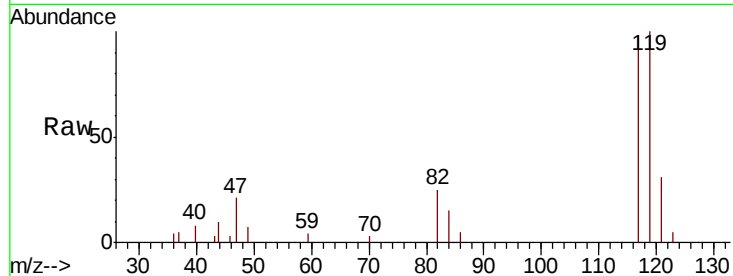
119 96.6 76.7 115.1

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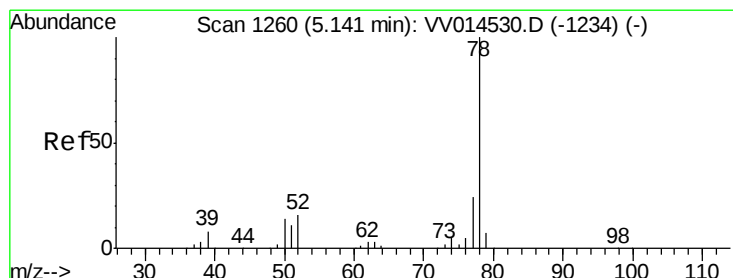
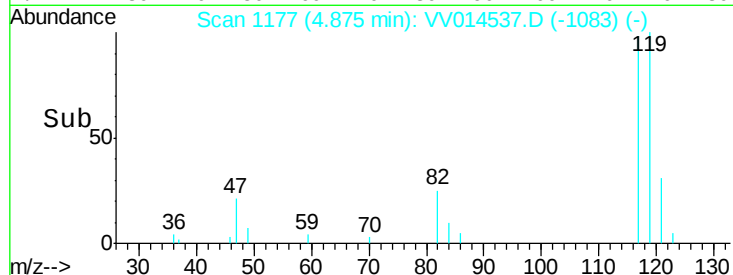
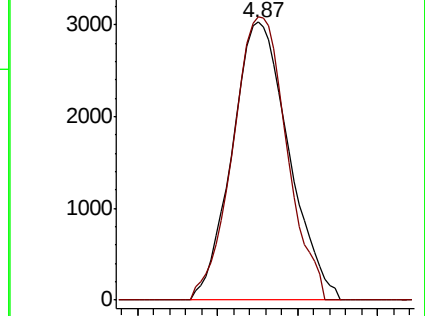
MMDadoda

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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: 2.334 ug/L

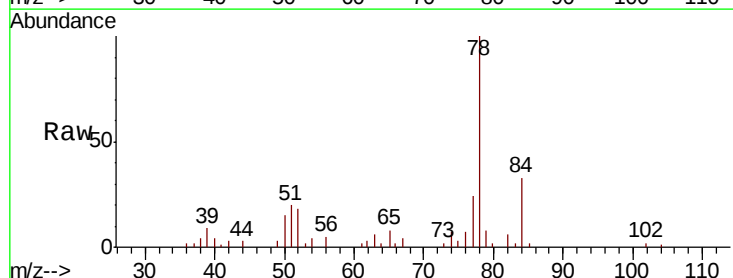
RT: 5.15 min Scan# 1262

Delta R.T. 0.01 min

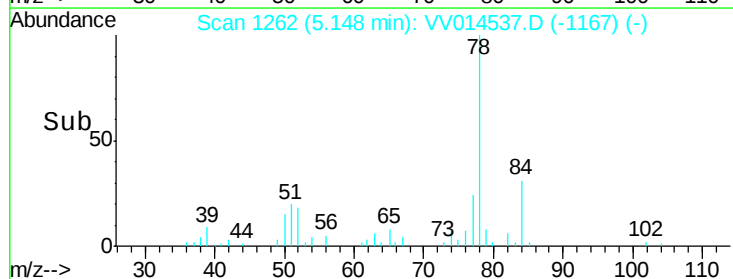
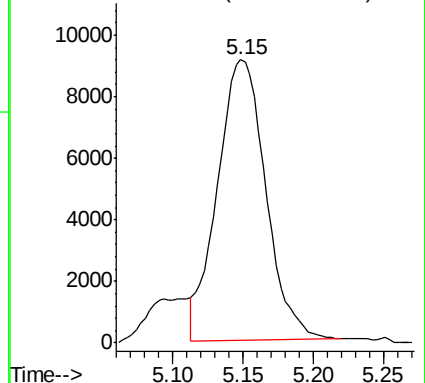
Lab File: VV014537.D

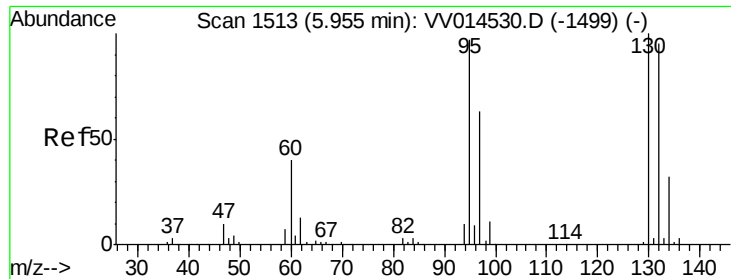
Acq: 07 Feb 2020 14:32

Tgt Ion: 78 Resp: 21839



Abundance Ion 78.00 (77.70 to 78.70): VV0





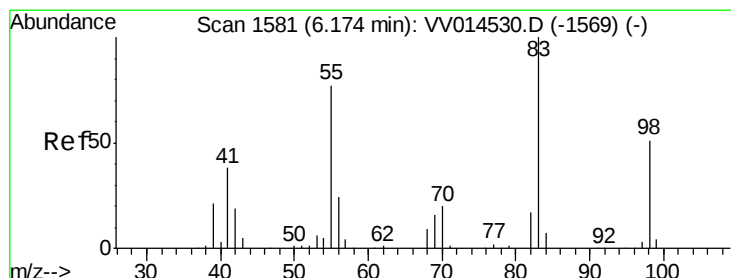
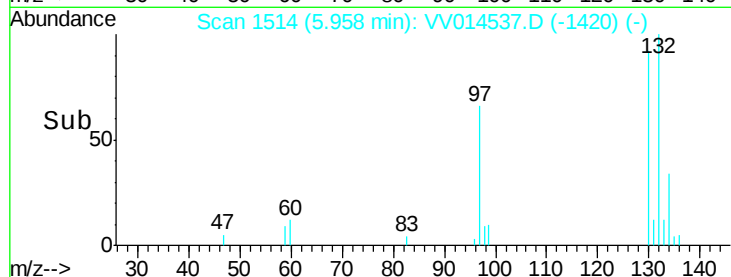
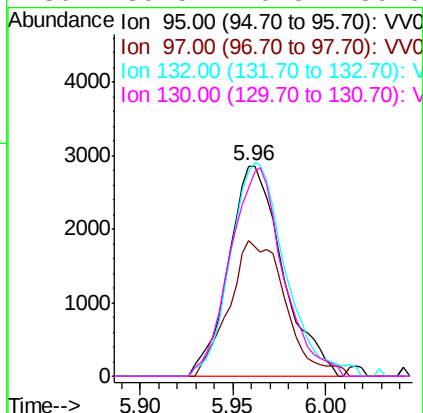
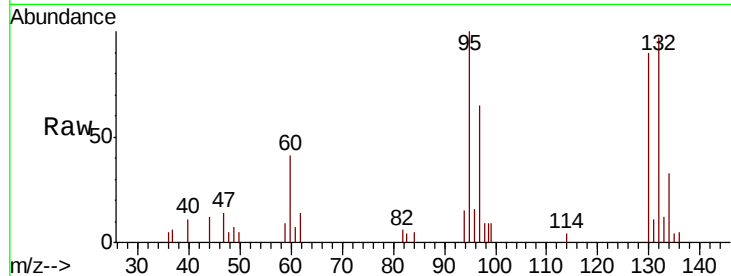
#34
 Trichloroethene
 Concen: 2.340 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
95	100		
97	64.6	45.1	83.7
132	97.5	67.7	125.7
130	89.5	70.5	130.9

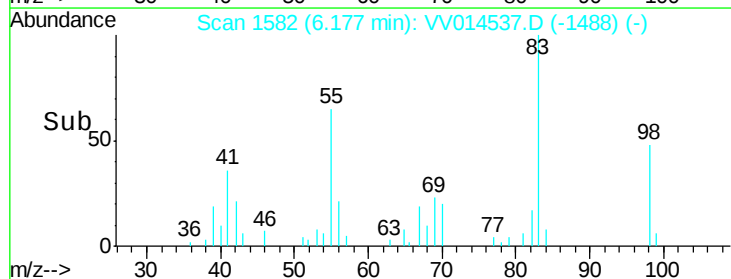
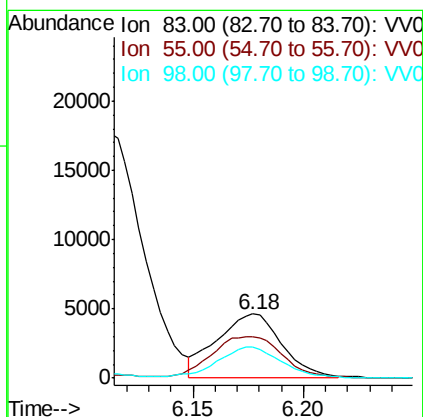
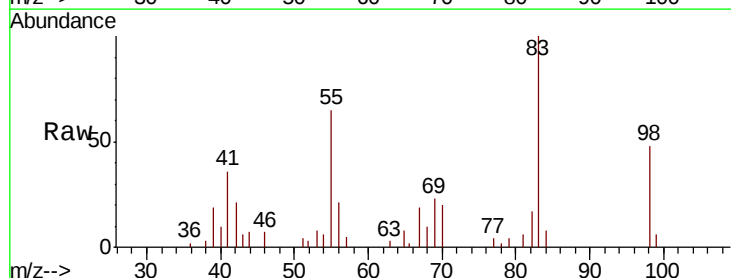
Manual Integrations
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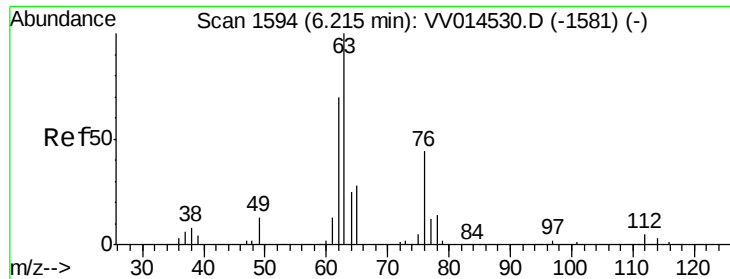
MMDadoda
 2/10/2020 11:56:40 AM



#35
 Methylcyclohexane
 Concen: 2.344 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Tgt Ion	Ratio	Lower	Upper
83	100		
55	71.5	60.7	91.1
98	47.6	39.4	59.0





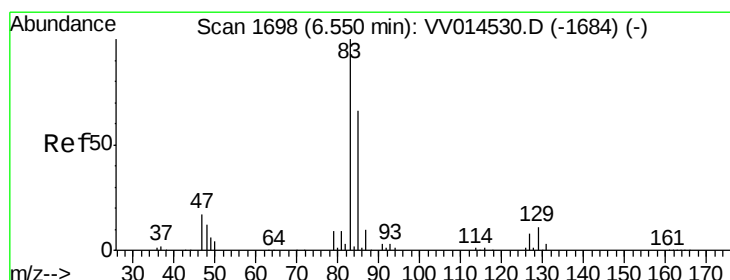
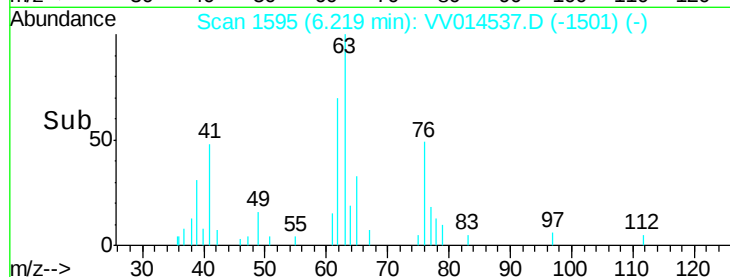
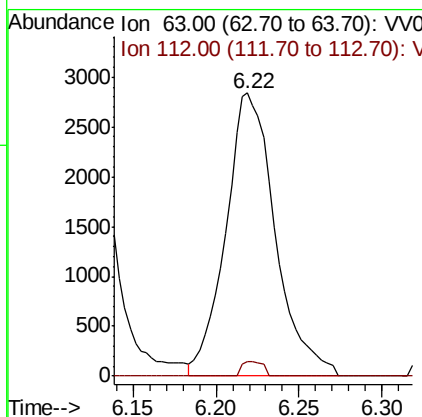
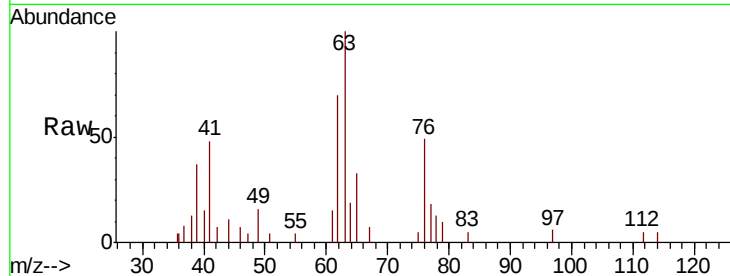
#37
 1,2-Dichloropropane
 Concen: 2.472 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 5891
 Ion Ratio Lower Upper
 63 100
 112 2.2 3.7 5.5#

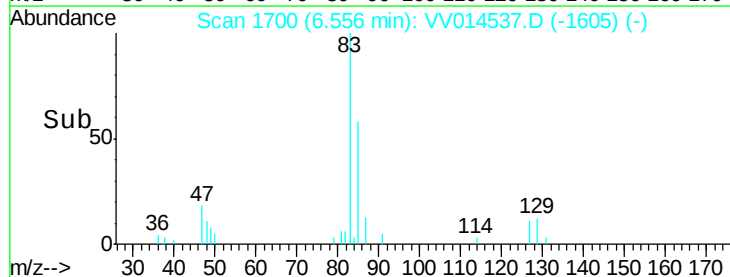
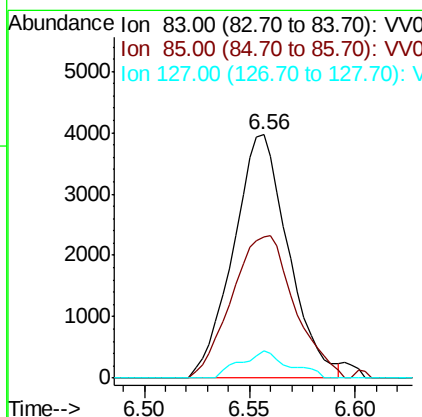
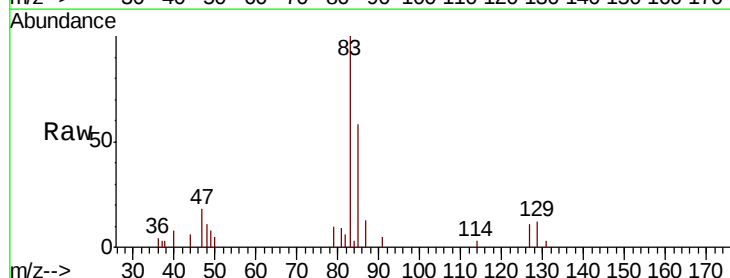
Manual Integrations
 APPROVED

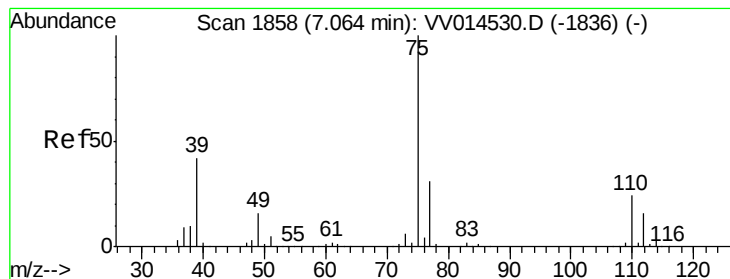
MMDadoda
 2/10/2020 11:56:40 AM



#38
 Bromodichloromethane
 Concen: 2.249 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.01 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Tgt Ion: 83 Resp: 7192
 Ion Ratio Lower Upper
 83 100
 85 58.1 44.4 82.4
 127 11.0 6.7 10.1#





#39

cis-1,3-Dichloropropene

Concen: 2.158 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 75 Resp: 8578

Ion Ratio Lower Upper

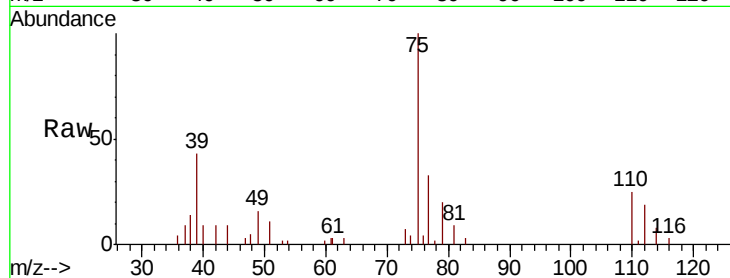
75 100

77 33.5 22.7 42.1

Manual Integrations
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MMDadoda

2/10/2020 11:56:40 AM



Abundance Ion 75.00 (74.70 to 75.70): VV014530.D (-1836) (-)

Ion 77.00 (76.70 to 77.70): VV014530.D (-1836) (-)

7.07

5000

4000

3000

2000

1000

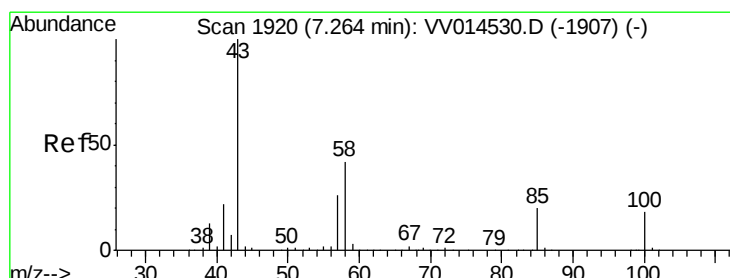
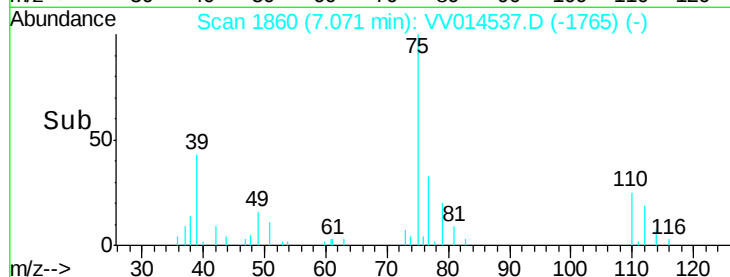
0

7.05

7.10

7.15

Time-->



#40

4-Methyl-2-pentanone

Concen: 4.108 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

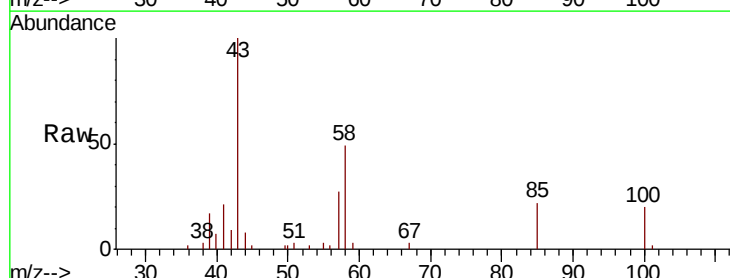
Tgt Ion: 43 Resp: 12651

Ion Ratio Lower Upper

43 100

58 46.3 33.2 49.8

100 20.3 13.9 20.9



Abundance Ion 43.00 (42.70 to 43.70): VV014530.D (-1907) (-)

Ion 58.00 (57.70 to 58.70): VV014530.D (-1907) (-)

Ion 100.00 (99.70 to 100.70): VV014530.D (-1907) (-)

200000

150000

100000

50000

0

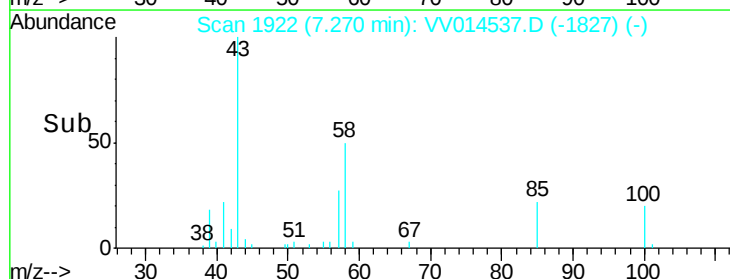
7.20

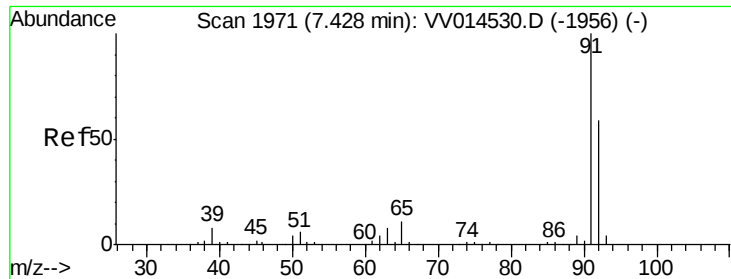
7.25

7.30

7.35

Time-->





#42

Toluene

Concen: 2.547 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 25548

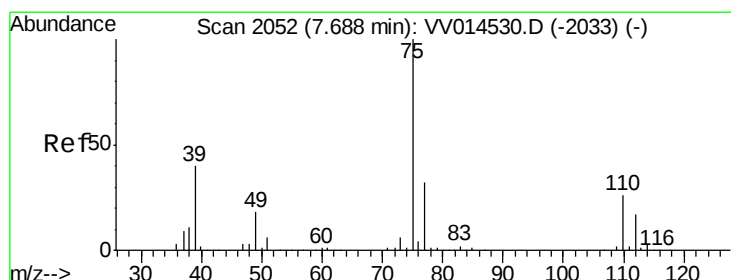
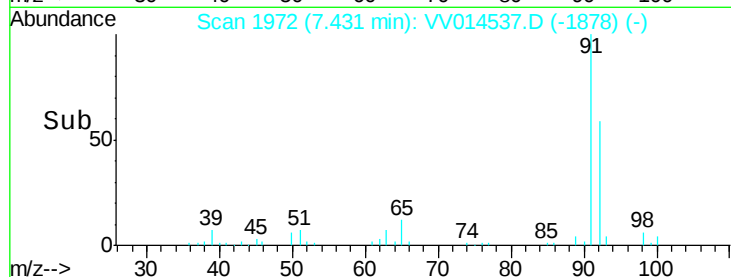
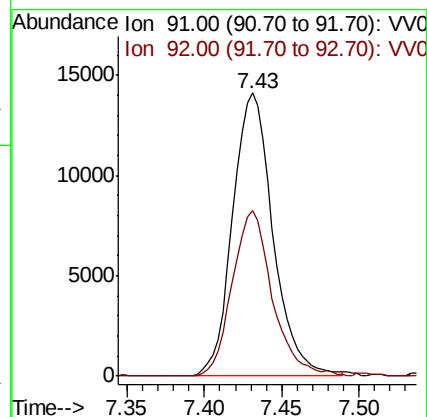
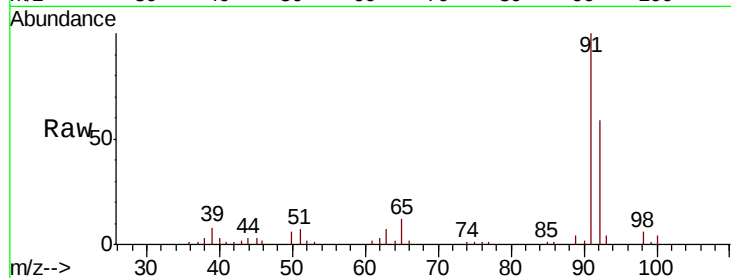
Ion Ratio Lower Upper

91 100

92 58.5 41.6 77.2

Manual Integrations
APPROVED

MMDadoda
2/10/2020 11:56:40 AM



#44

trans-1,3-Dichloropropene

Concen: 2.364 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014537.D

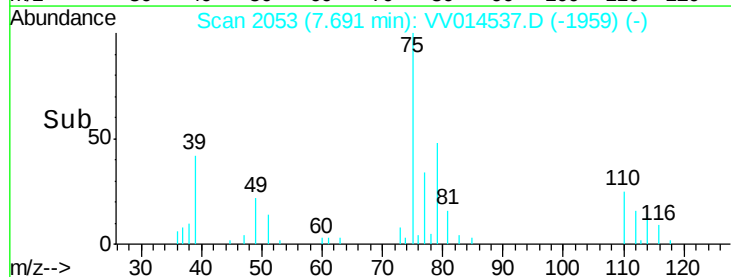
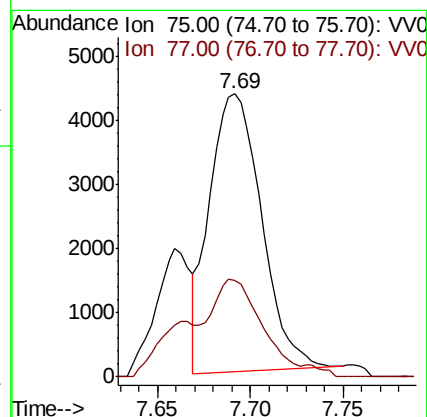
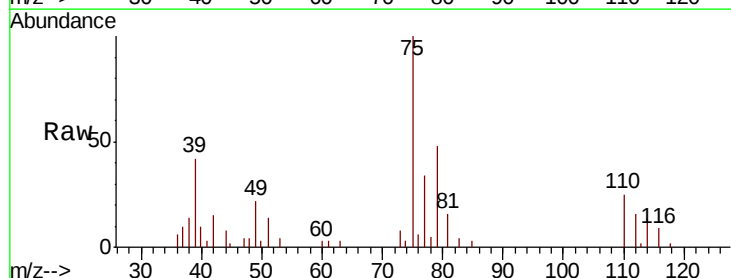
Acq: 07 Feb 2020 14:32

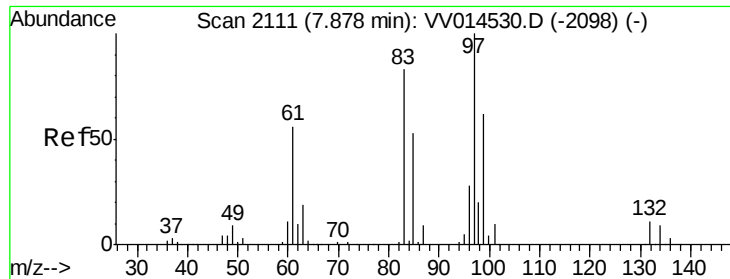
Tgt Ion: 75 Resp: 8427

Ion Ratio Lower Upper

75 100

77 34.3 22.2 41.2





#45

1,1,2-Trichloroethane

Concen: 2.459 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 97 Resp: 5623

Ion Ratio Lower Upper

97 100

99 56.7 44.5 82.7

83 87.9 60.1 111.5

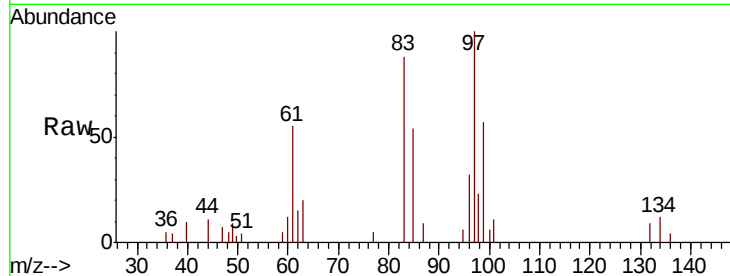
85 54.3 38.1 70.9

Manual Integrations

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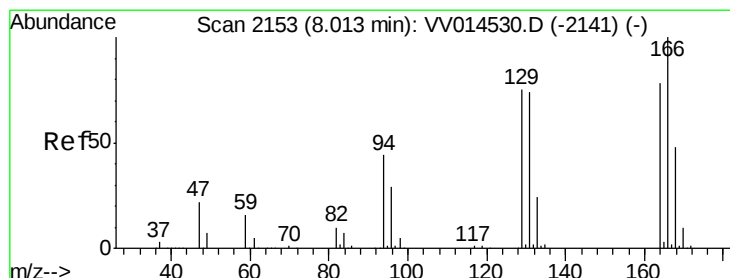
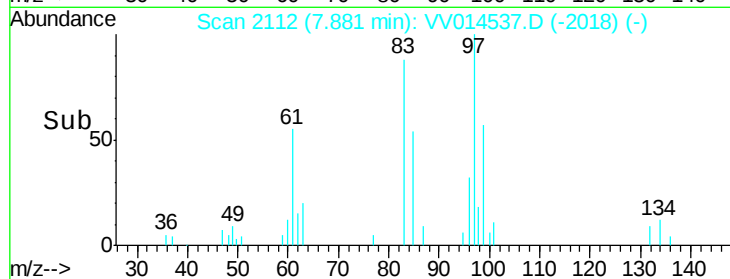
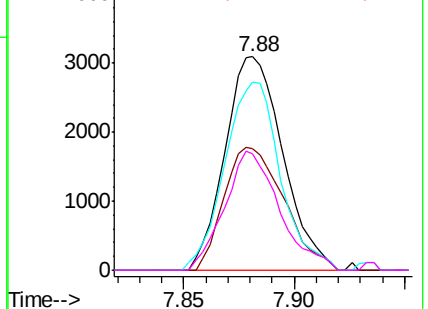


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 2.548 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Tgt Ion: 164 Resp: 4822

Ion Ratio Lower Upper

164 100

129 98.0 68.0 126.4

131 90.6 63.4 117.8

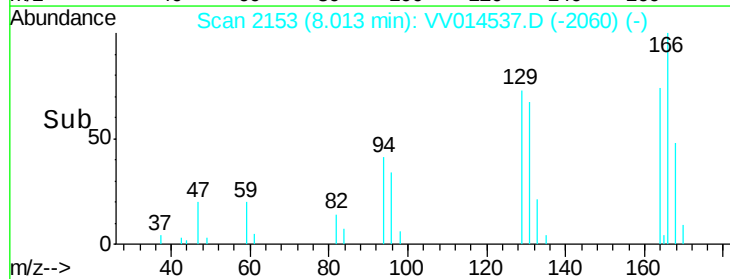
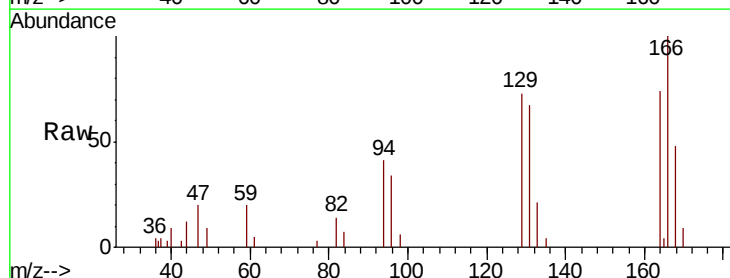
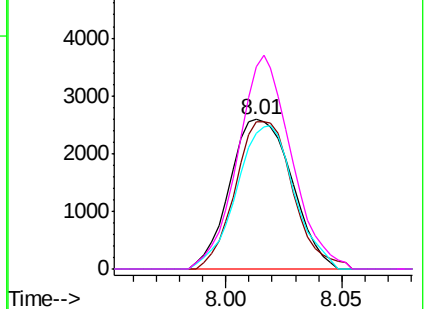
166 134.7 86.9 161.3

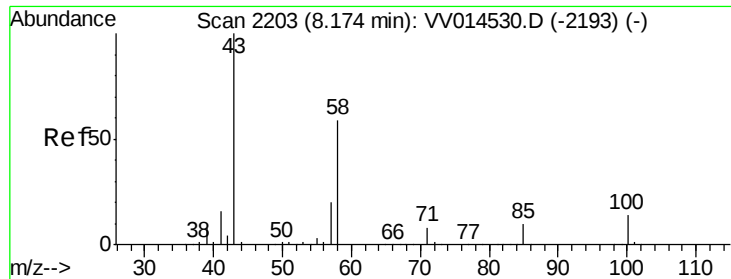
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





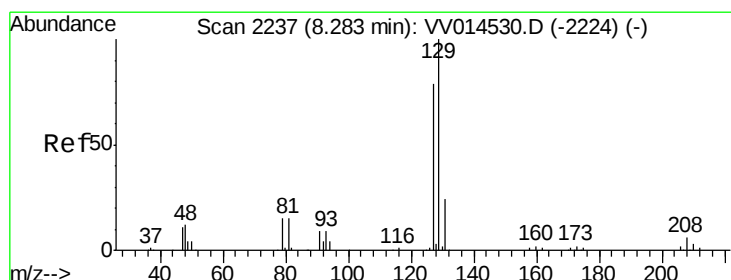
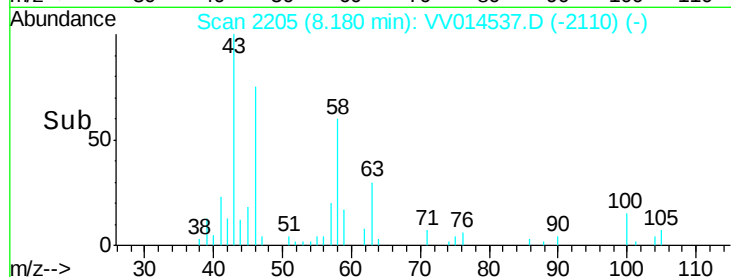
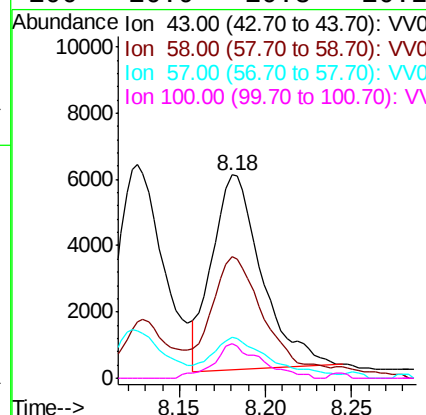
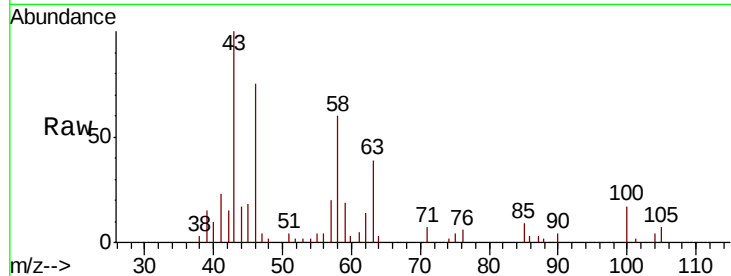
#48
2-Hexanone
Concen: 5.008 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.01 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.9	45.5	68.3
57	24.9	15.8	23.6
100	16.9	10.8	16.2

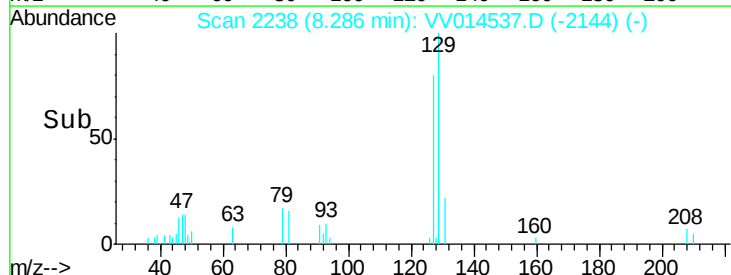
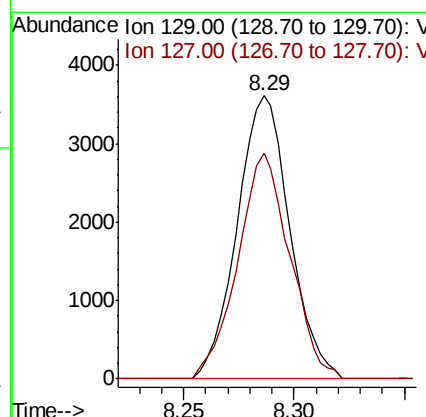
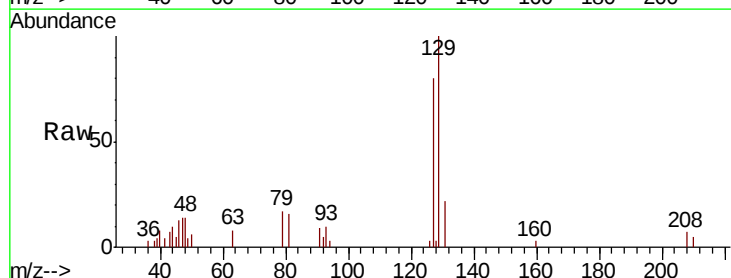
Manual Integrations
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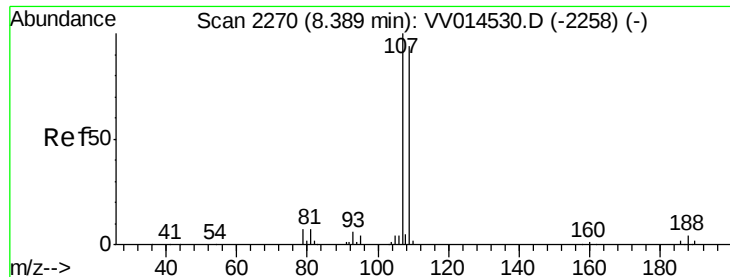
MMDadoda
2/10/2020 11:56:40 AM



#49
Dibromochloromethane
Concen: 2.312 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.8	54.1	100.5





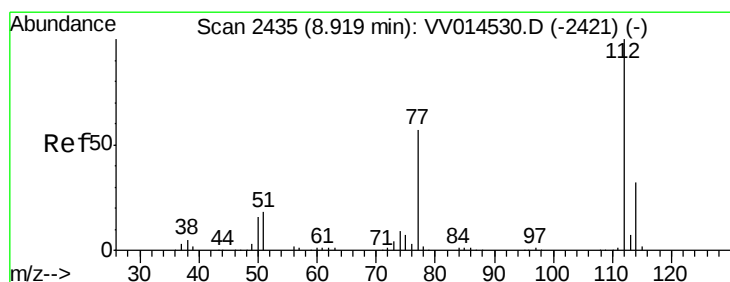
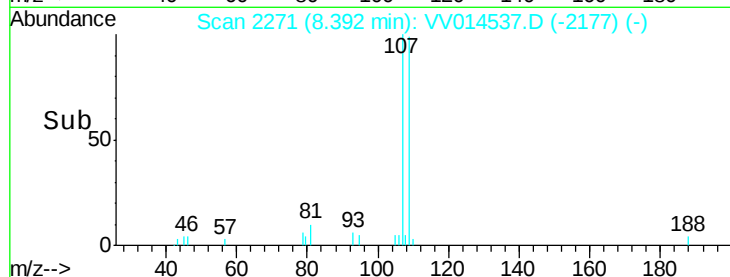
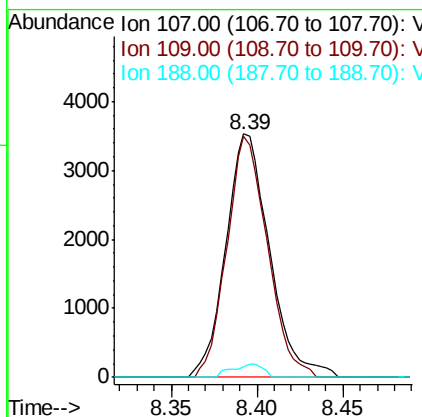
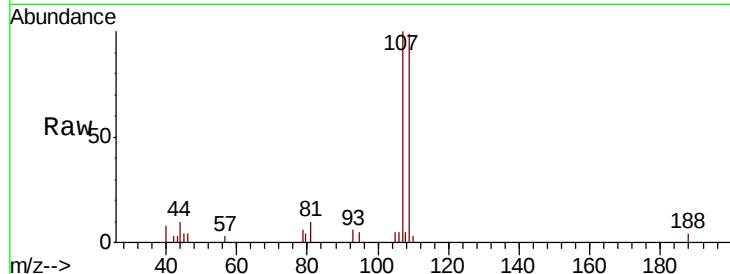
#50
1,2-Dibromoethane
Concen: 2.536 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	6280		
109	98.9	65.2	121.2	
188	4.4	2.6	4.0#	

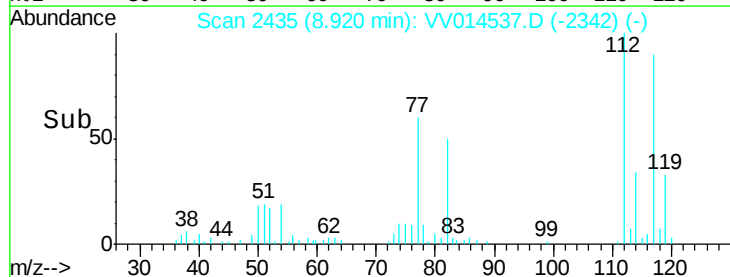
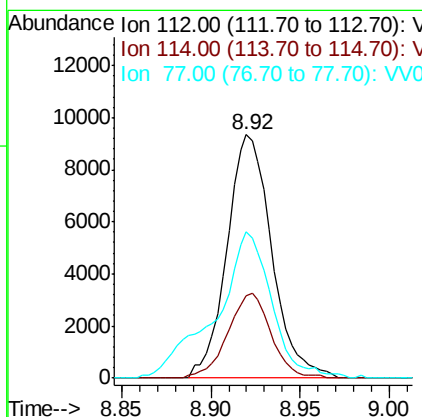
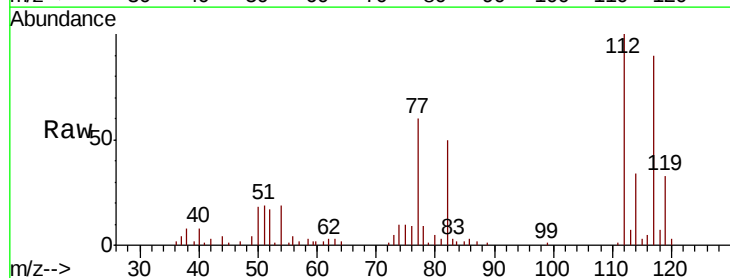
Manual Integrations
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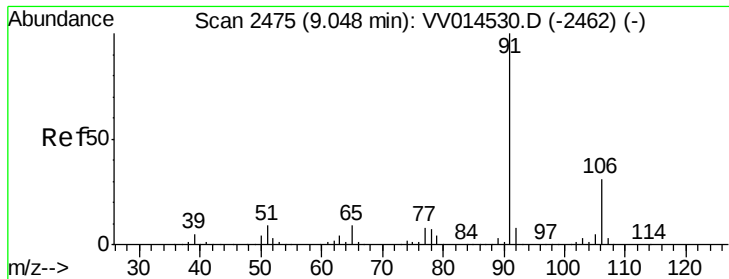
MMDadoda
2/10/2020 11:56:40 AM



#51
Chlorobenzene
Concen: 2.498 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	16370		
114	34.1	22.3	41.5	
77	59.8	47.3	70.9	





#52

Ethylbenzene

Concen: 2.388 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.01 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 91 Resp: 26866

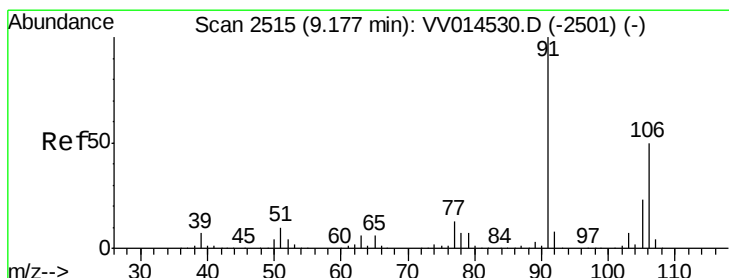
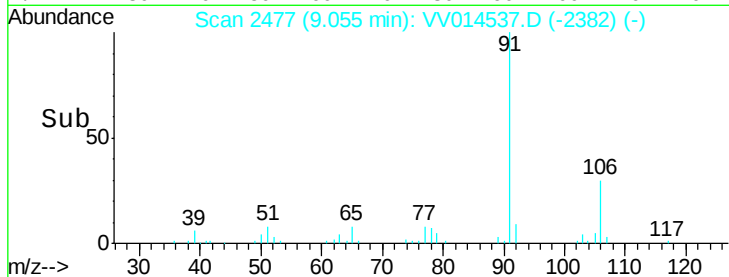
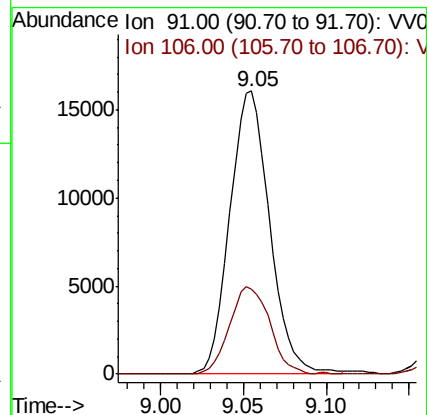
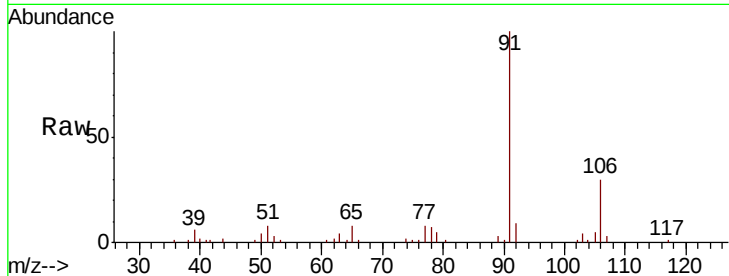
Ion Ratio Lower Upper

91 100

106 30.0 21.5 39.9

Manual Integrations
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2/10/2020 11:56:40 AM



#53

m,p-Xylene

Concen: 2.516 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV014537.D

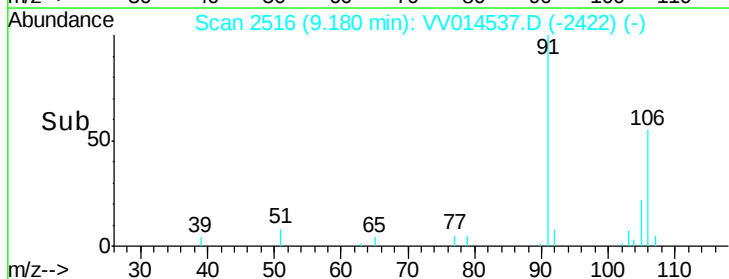
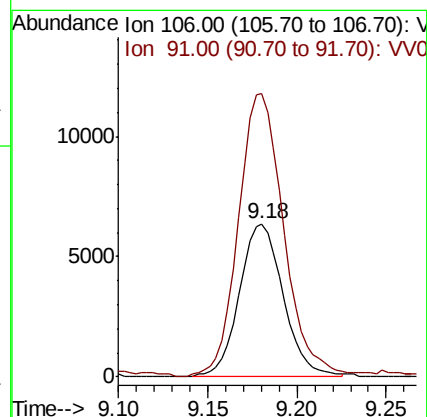
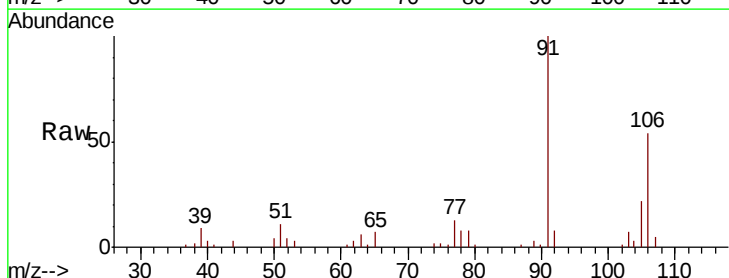
Acq: 07 Feb 2020 14:32

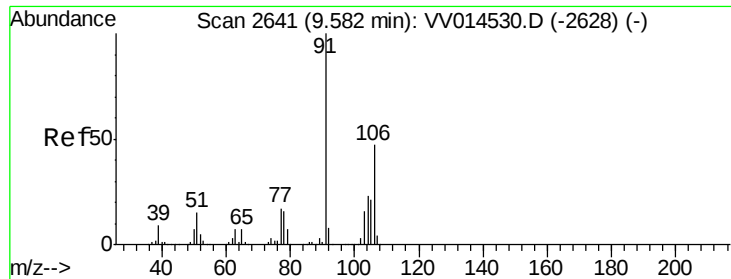
Tgt Ion: 106 Resp: 10903

Ion Ratio Lower Upper

106 100

91 185.1 141.4 262.6





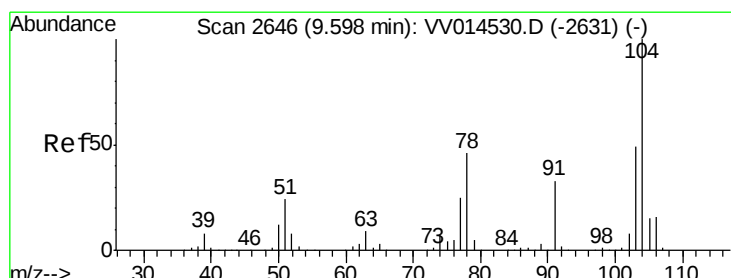
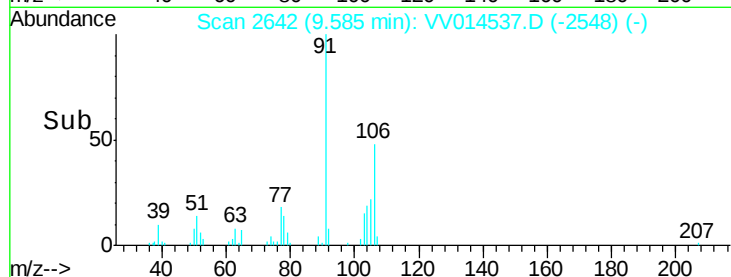
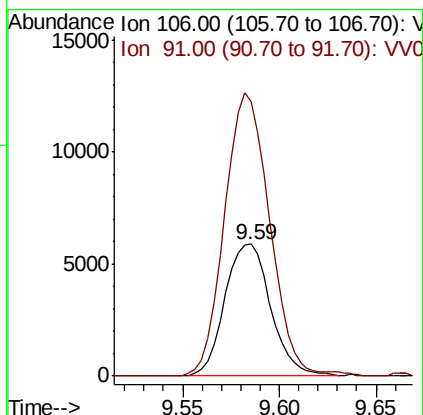
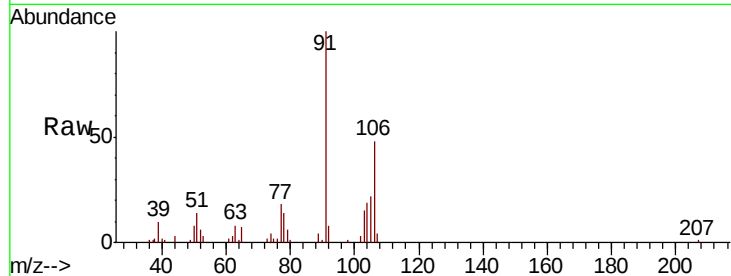
#54
o-Xylene
Concen: 2.349 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion:106 Resp: 9742
Ion Ratio Lower Upper
106 100
91 208.0 149.4 277.4

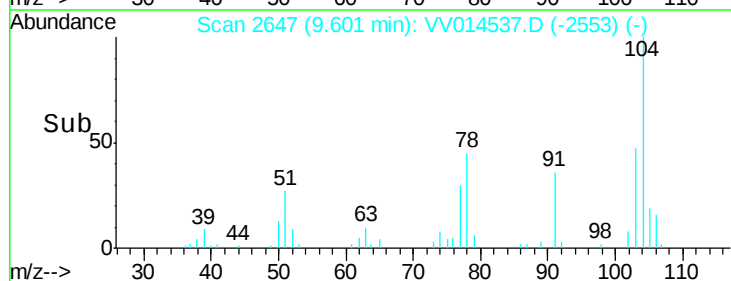
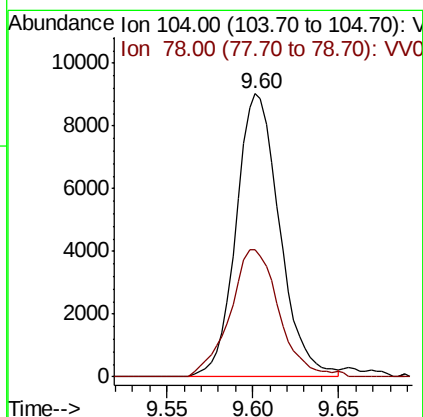
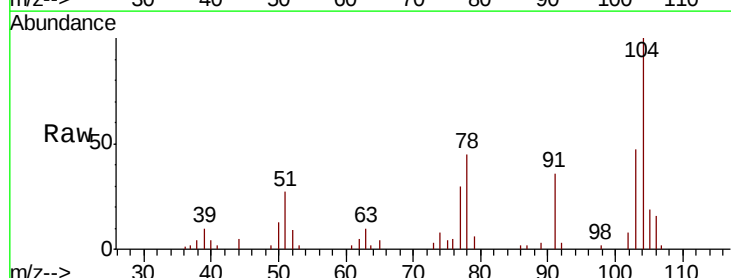
Manual Integrations
APPROVED

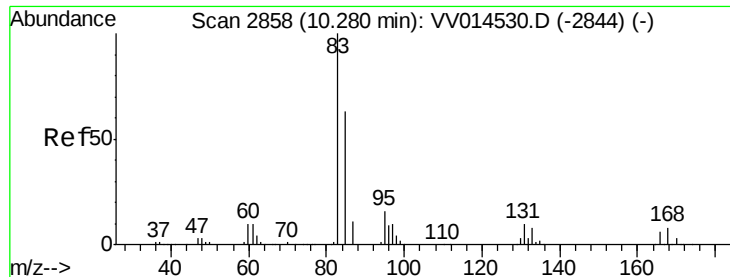
MMDadoda
2/10/2020 11:56:40 AM



#55
Styrene
Concen: 2.235 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Tgt Ion:104 Resp: 15841
Ion Ratio Lower Upper
104 100
78 45.0 31.6 58.8





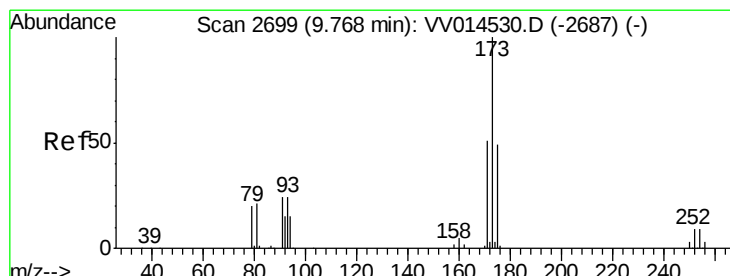
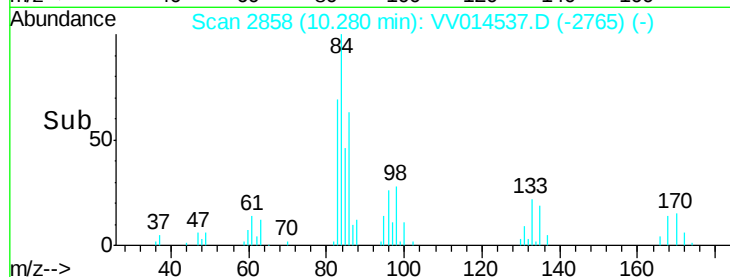
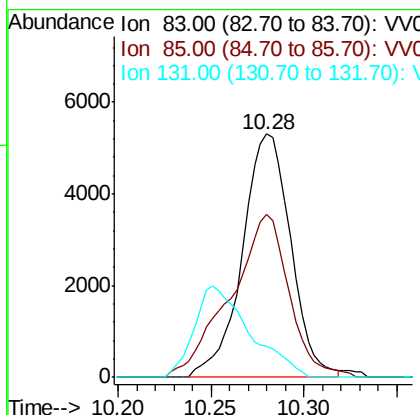
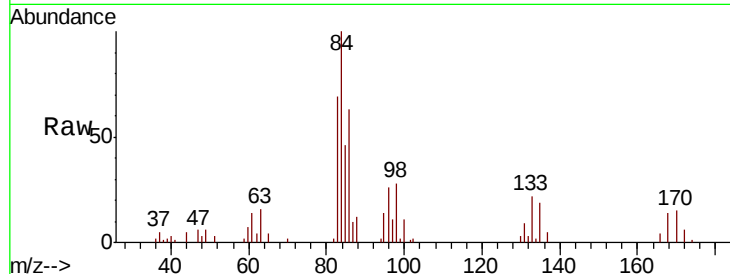
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.687 ug/L
 RT: 10.28 min Scan# 2858
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
83	100		
85	66.9	45.2	84.0
131	12.7	7.8	11.8#

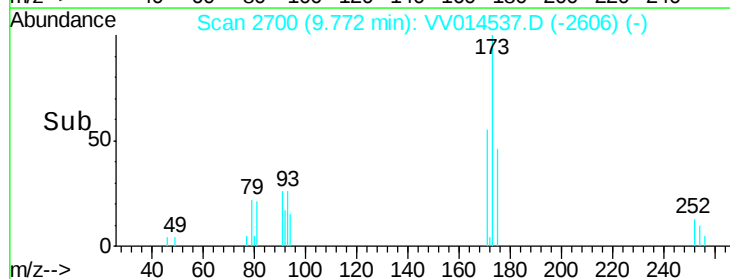
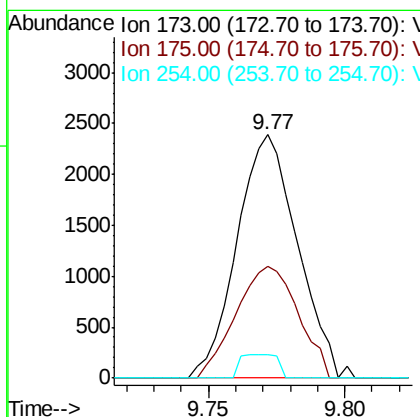
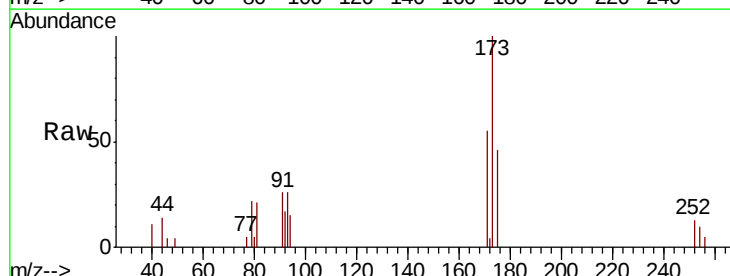
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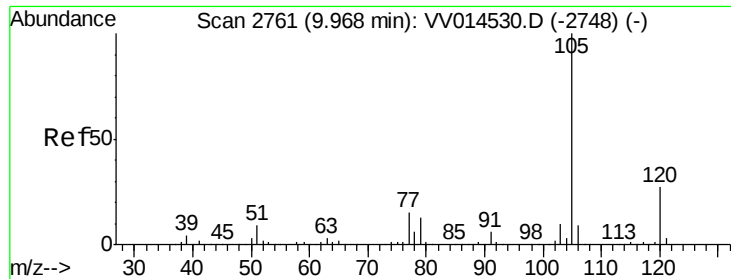
MMDadoda
 2/10/2020 11:56:40 AM



#59
 Bromoform
 Concen: 2.031 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.4	37.8	56.8
254	3.6	7.0	10.6#





#60

Isopropylbenzene

Concen: 2.294 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

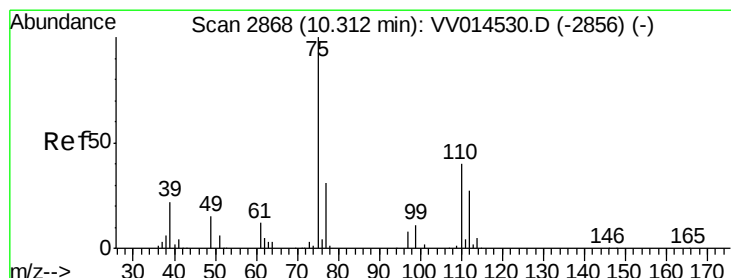
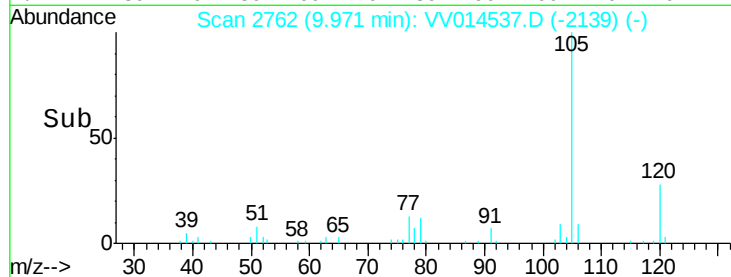
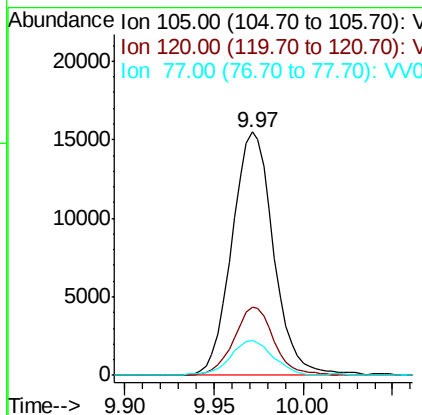
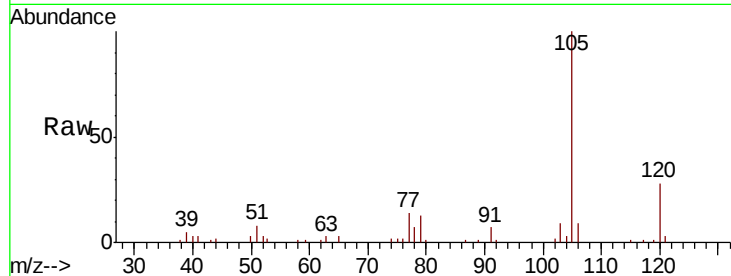
ClientSampleId :

MDL01

Tot Ion:	105	Resp:	25121
Ion Ratio	Lower	Upper	
105	100		
120	27.0	21.5	32.3
77	14.5	12.2	18.4

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2/10/2020 11:56:40 AM



#61

1,2,3-Trichloropropane

Concen: 2.413 ug/L

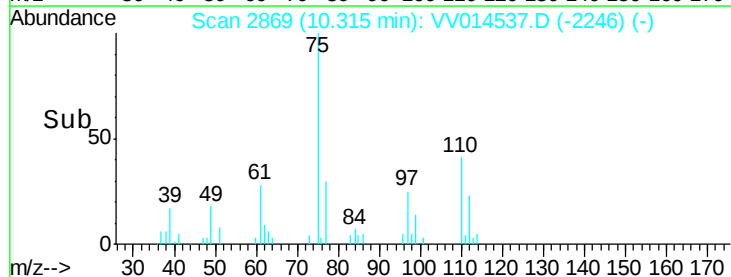
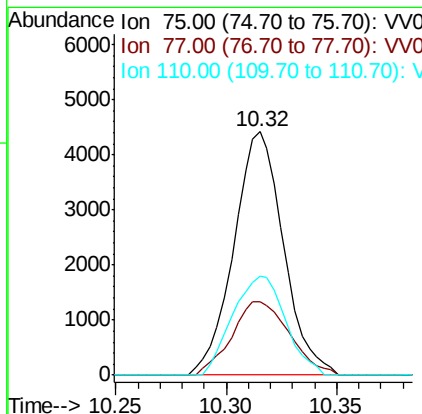
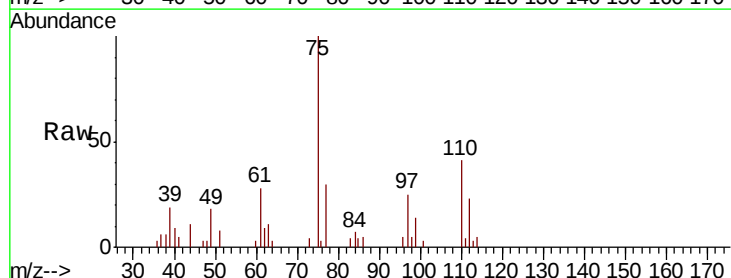
RT: 10.32 min Scan# 2869

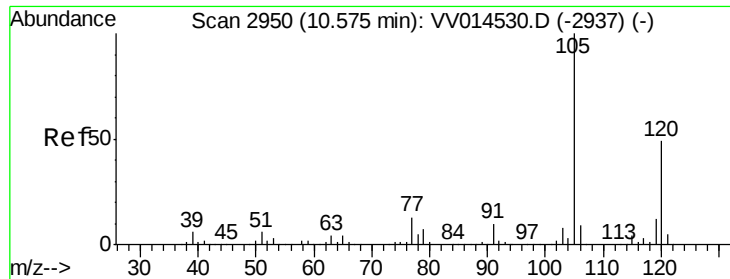
Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Tgt Ion:	75	Resp:	6918
Ion Ratio	Lower	Upper	
75	100		
77	35.2	25.8	38.8
110	43.3	32.4	48.6





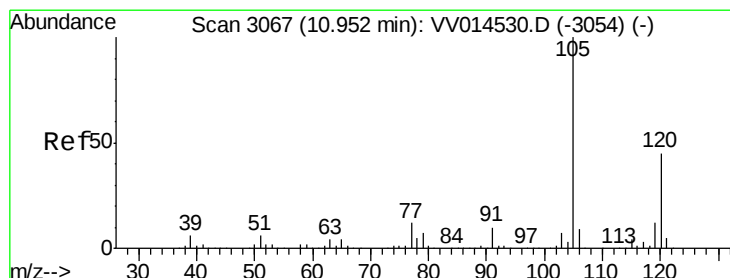
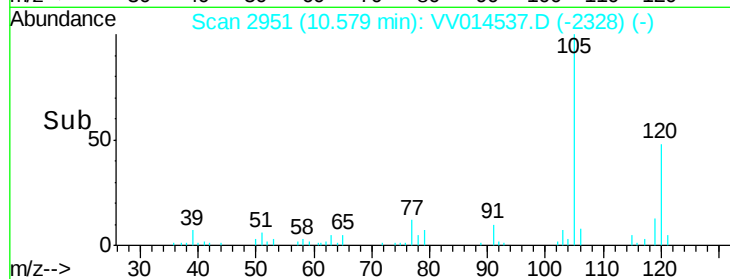
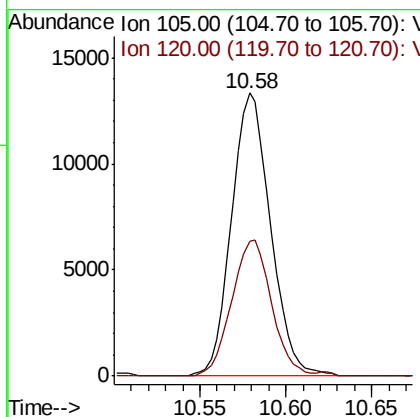
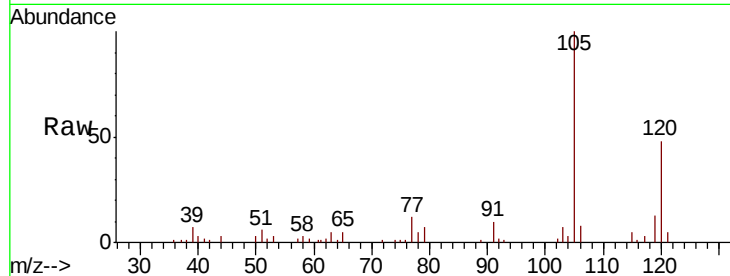
#62
 1,3,5-Trimethylbenzene
 Concen: 2.240 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL01

Tot Ion:105 Resp: 20993
 Ion Ratio Lower Upper
 105 100
 120 49.0 39.0 58.6

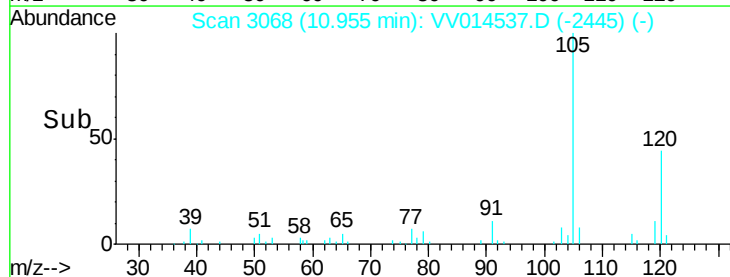
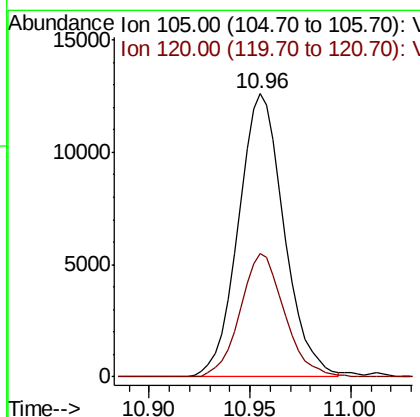
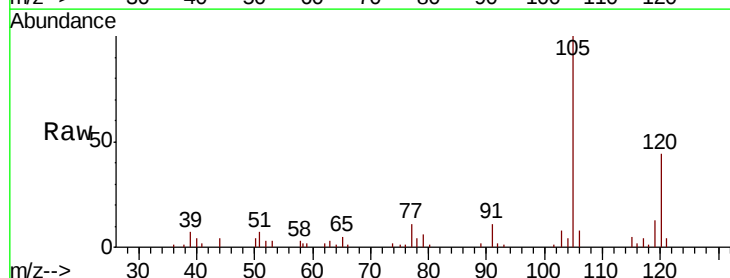
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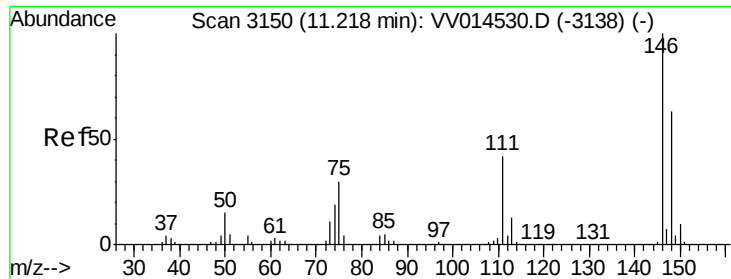
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 2/10/2020 11:56:40 AM



#63
 1,2,4-Trimethylbenzene
 Concen: 2.161 ug/L
 RT: 10.96 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Tgt Ion:105 Resp: 19966
 Ion Ratio Lower Upper
 105 100
 120 42.1 36.2 54.4





#64

1,3-Dichlorobenzene

Concen: 2.453 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Instrument :

MSVOA_V

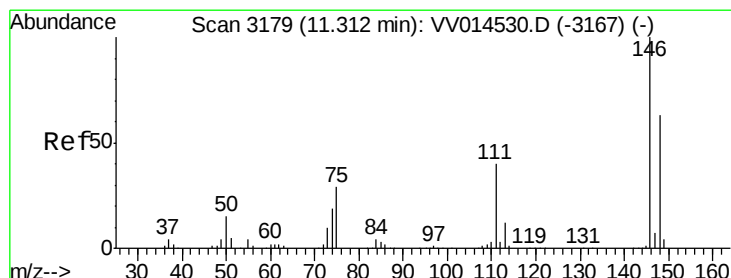
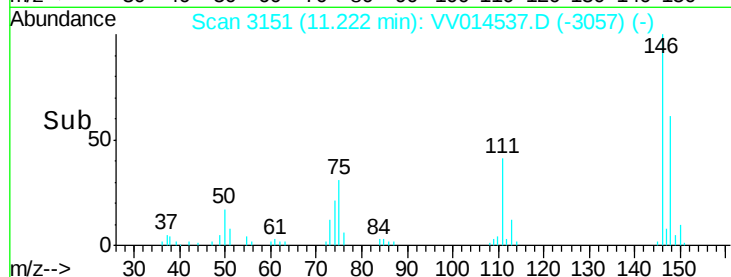
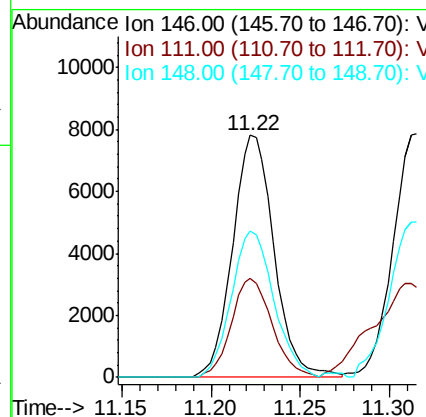
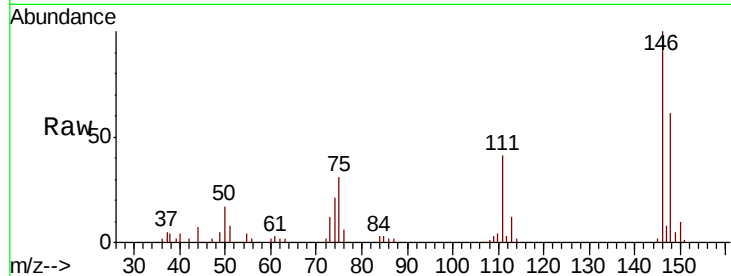
ClientSampled :

MDL01

Tot Ion:	146	Resp:	12672
Ion Ratio	Lower	Upper	
146	100		
111	40.9	28.9	53.7
148	60.6	44.4	82.5

Manual Integrations
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#65

1,4-Dichlorobenzene

Concen: 2.406 ug/L

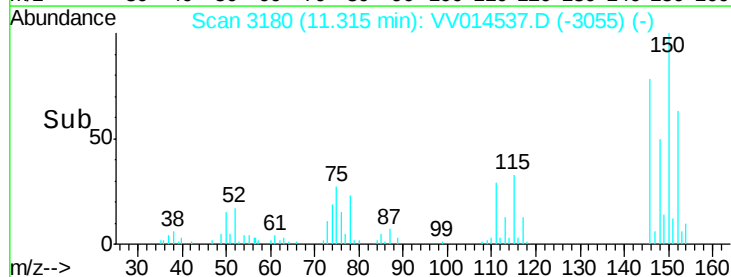
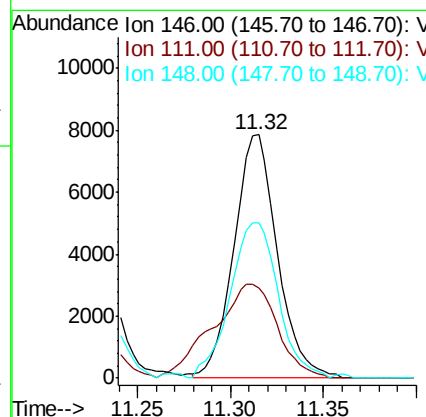
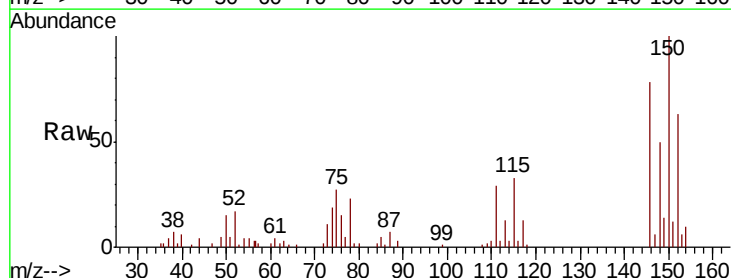
RT: 11.32 min Scan# 3180

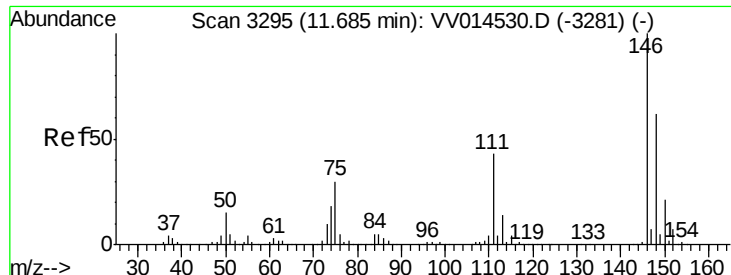
Delta R.T. 0.00 min

Lab File: VV014537.D

Acq: 07 Feb 2020 14:32

Tgt Ion:	146	Resp:	12795
Ion Ratio	Lower	Upper	
146	100		
111	37.2	28.1	52.3
148	63.9	44.4	82.4





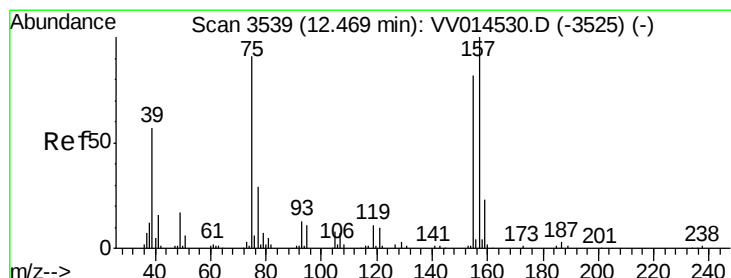
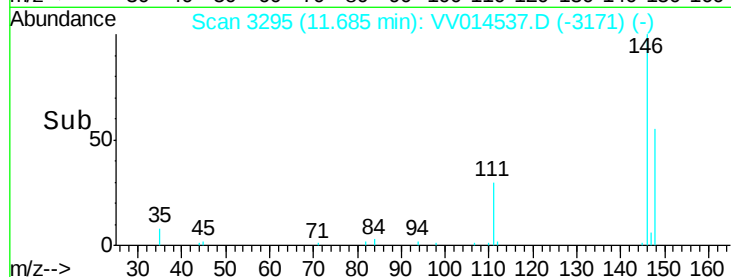
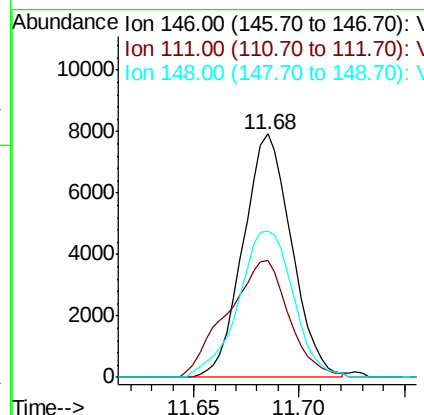
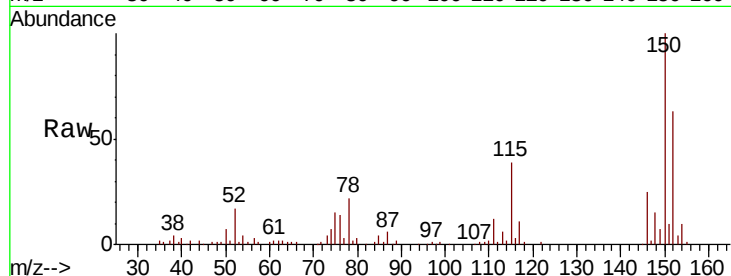
#67
 1,2-Dichlorobenzene
 Concen: 2.524 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	34.6	51.8
148	60.1	50.2	75.4

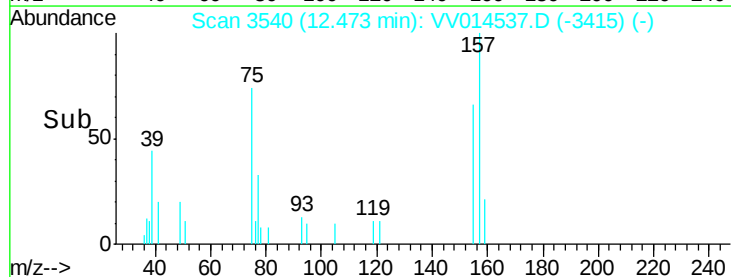
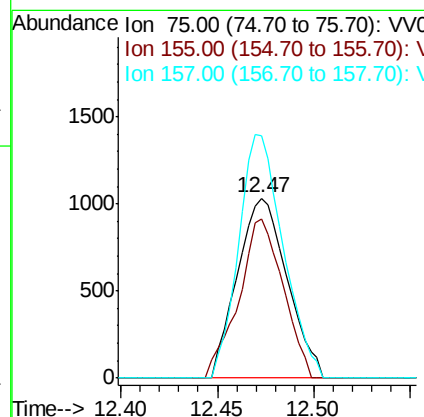
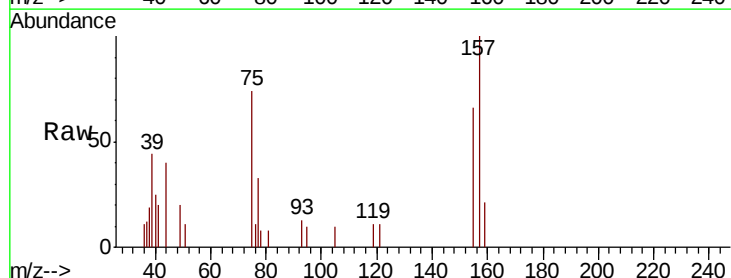
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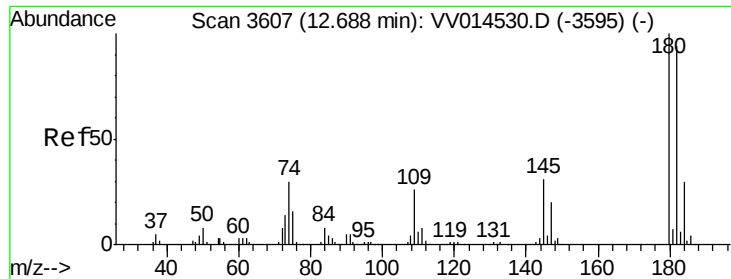
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 2/10/2020 11:56:40 AM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.294 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.9	68.3	102.5
157	134.5	87.1	130.7#





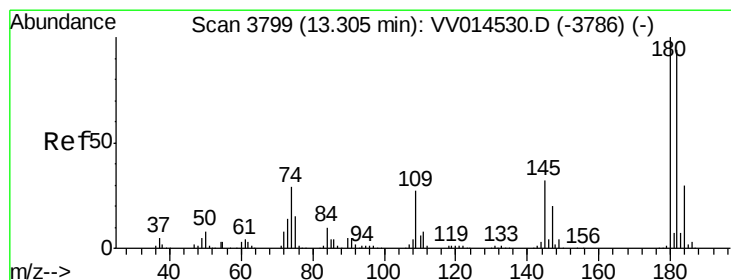
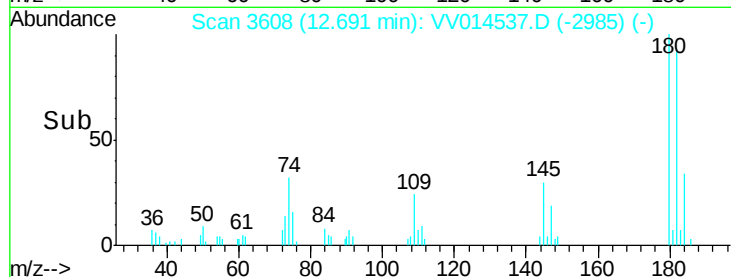
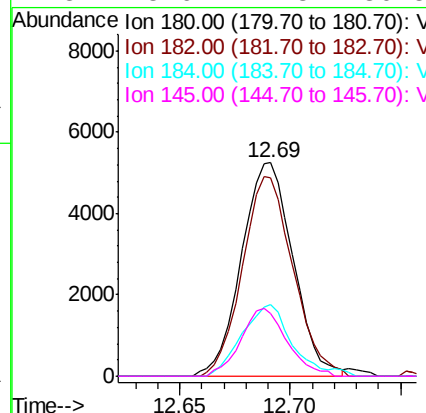
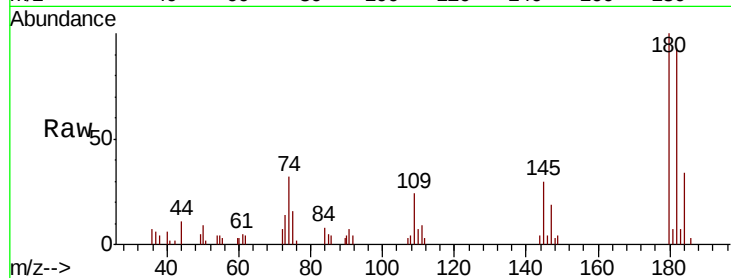
#69
 1,3,5-Trichlorobenzene
 Concen: 2.334 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.9	75.0	112.4
184	31.9	24.2	36.2
145	28.6	24.3	36.5

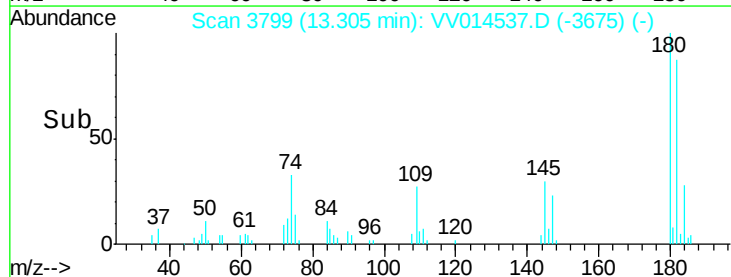
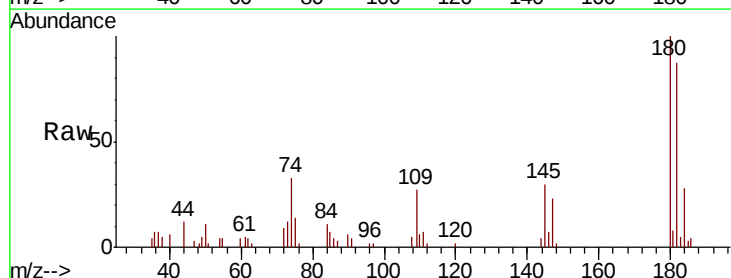
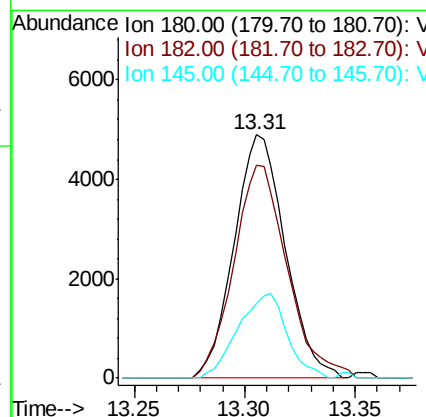
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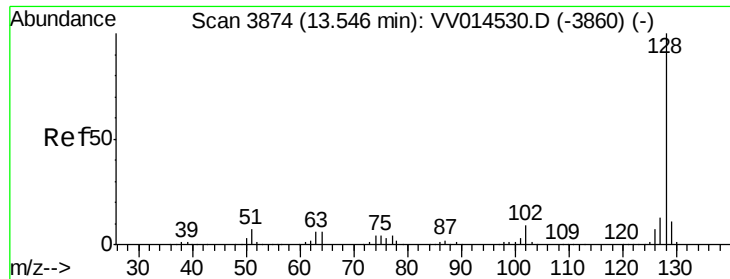
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#70
 1,2,4-trichlorobenzene
 Concen: 2.359 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014537.D
 Acq: 07 Feb 2020 14:32

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.1	76.0	114.0
145	33.4	25.3	37.9





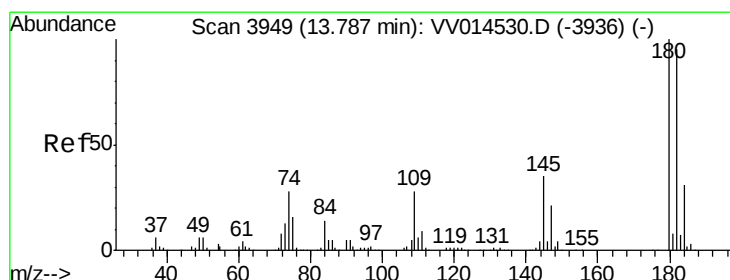
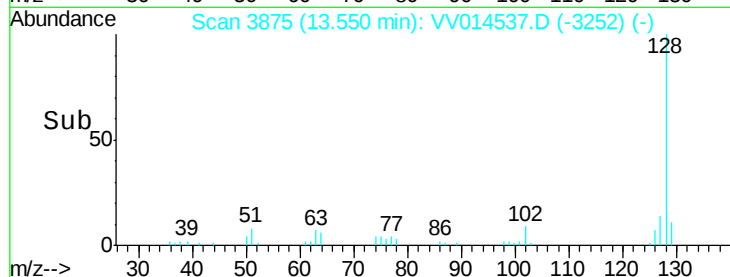
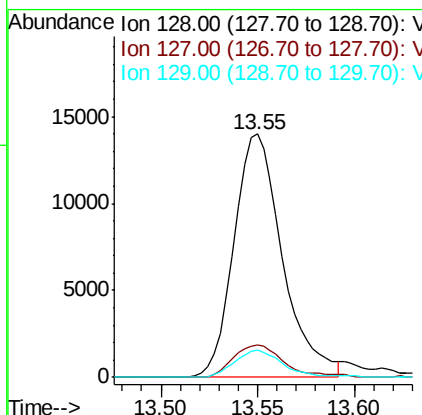
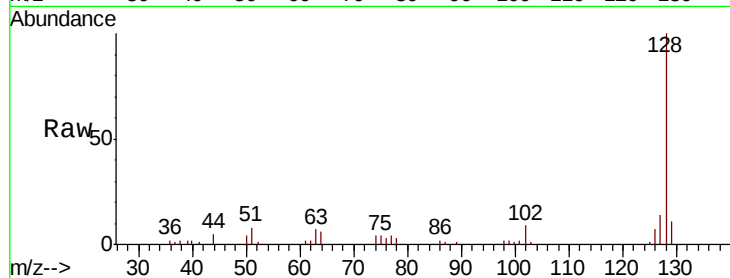
#71
Naphthalene
Concen: 2.224 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	11.1	8.7	13.1

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#72
1,2,3-Trichlorobenzene
Concen: 2.273 ug/L
RT: 13.79 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VV014537.D
Acq: 07 Feb 2020 14:32

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.2	112.8
145	32.3	27.1	40.7

