

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080719\
 Data File : VV012127.D
 Acq On : 07 Aug 2019 14:58
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.00uL/5.0mL/100uL/5mL/MSVOA_V/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 11:45:29 AM

Quant Time: Aug 08 01:43:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 01:11:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	220041	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	203680	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	98362	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	57270	47.61	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.22%
7) Chloroethane-d5	1.58	69	38141	44.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.34%
11) 1,1-Dichloroethene-d2	2.13	63	71712	34.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.78%
21) 2-Butanone-d5	3.92	46	88486	100.97	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.97%
24) Chloroform-d	4.40	84	148879	49.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.66%
26) 1,2-Dichloroethane-d4	5.08	65	103686	53.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.96%
32) Benzene-d6	5.10	84	286966	48.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.92%
36) 1,2-Dichloropropane-d6	6.12	67	82493	48.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.18%
41) Toluene-d8	7.36	98	278755	49.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.66%
43) trans-1,3-Dichloropropene-	7.66	79	48350	50.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.18%
47) 2-Hexanone-d5	8.13	63	74317	105.39	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.39%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	124593	52.06	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.12%
66) 1,2-Dichlorobenzene-d4	11.67	152	127046	54.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.84%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	4960	3.191	ug/L	93
3) Chloromethane	1.25	50	4028	3.650	ug/L	98
5) Vinyl chloride	1.33	62	2912	2.734	ug/L #	48
6) Bromomethane	1.53	94	1654	2.675	ug/L	76
8) Chloroethane	1.60	64	1603	2.873	ug/L	93
9) Trichlorofluoromethane	1.77	101	4687	2.706	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2854	3.362	ug/L #	79
12) 1,1-Dichloroethene	2.14	96	2613	3.268	ug/L #	1
13) Acetone	2.18	43	2668	4.465	ug/L	97
14) Carbon disulfide	2.32	76	6474	2.396	ug/L #	95
15) Methyl Acetate	2.46	43	2607	2.493	ug/L	98
16) Methylene chloride	2.54	84	3204	2.641	ug/L	98
17) trans-1,2-Dichloroethene	2.79	96	2881	2.552	ug/L	90
18) Methyl tert-butyl Ether	2.80	73	10545	2.719	ug/L	100
19) 1,1-Dichloroethane	3.23	63	5280	2.565	ug/L	93
20) cis-1,2-Dichloroethene	3.96	96	3661	2.753	ug/L	97
22) 2-Butanone	4.03	43	3558m	4.620	ug/L	

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

23) Bromochloromethane	4.30	128	1949	2.666	µg/L	82
25) Chloroform	4.43	83	10796	4.627	µg/L	97
27) 1,2-Dichloroethane	5.18	62	5571	3.072	µg/L	99
29) Cyclohexane	4.73	56	4439	2.606	µg/L	93
30) 1,1,1-Trichloroethane	4.66	97	6155	2.845	µg/L #	84
31) Carbon tetrachloride	4.88	117	5529	2.755	µg/L	91
33) Benzene	5.15	78	11721	2.500	µg/L	100
34) Trichloroethene	5.96	95	3517	2.699	µg/L	93
35) Methylcyclohexane	6.17	83	4949	2.551	µg/L	93
37) 1,2-Dichloropropane	6.22	63	3469	3.033	µg/L #	90
38) Bromodichloromethane	6.55	83	4615	2.565	µg/L	93
39) cis-1,3-Dichloropropene	7.07	75	5052	2.506	µg/L	88
40) 4-Methyl-2-pentanone	7.27	43	7783	5.288	µg/L	98
42) Toluene	7.43	91	14272	2.739	µg/L	99
44) trans-1,3-Dichloropropene	7.69	75	4913	2.581	µg/L	97
45) 1,1,2-Trichloroethane	7.88	97	3326	2.698	µg/L	95
46) Tetrachloroethene	8.02	164	3046	2.509	µg/L	92
48) 2-Hexanone	8.18	43	6233	5.617	µg/L #	92
49) Dibromochloromethane	8.29	129	4400	2.751	µg/L	99
50) 1,2-Dibromoethane	8.40	107	3594	2.636	µg/L #	92
51) Chlorobenzene	8.92	112	9546	2.718	µg/L	94
52) Ethylbenzene	9.05	91	14688	2.513	µg/L	98
53) m,p-Xylene	9.18	106	5834	2.587	µg/L	87
54) o-Xylene	9.59	106	6085	2.719	µg/L	91
55) Styrene	9.60	104	9449	2.507	µg/L	94
57) 1,1,2,2-Tetrachloroethane	10.28	83	6050	3.191	µg/L #	89
59) Bromoform	9.78	173	3424	2.968	µg/L #	93
60) Isopropylbenzene	9.97	105	15264	2.835	µg/L	99
61) 1,2,3-Trichloropropane	10.32	75	4369	3.271	µg/L	96
62) 1,3,5-Trimethylbenzene	10.58	105	12206	2.622	µg/L	100
63) 1,2,4-Trimethylbenzene	10.96	105	12377	2.694	µg/L	99
64) 1,3-Dichlorobenzene	11.23	146	7610	2.801	µg/L	96
65) 1,4-Dichlorobenzene	11.32	146	7552	2.750	µg/L	91
67) 1,2-Dichlorobenzene	11.69	146	8701	3.139	µg/L	94
68) 1,2-Dibromo-3-chloropropan	12.48	75	1231	2.797	µg/L #	87
69) 1,3,5-Trichlorobenzene	12.69	180	5491	2.493	µg/L	98
70) 1,2,4-trichlorobenzene	13.31	180	3863	2.023	µg/L	94
71) Naphthalene	13.55	128	8097	1.673	µg/L #	93
72) 1,2,3-Trichlorobenzene	13.79	180	3965	2.063	µg/L	97

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

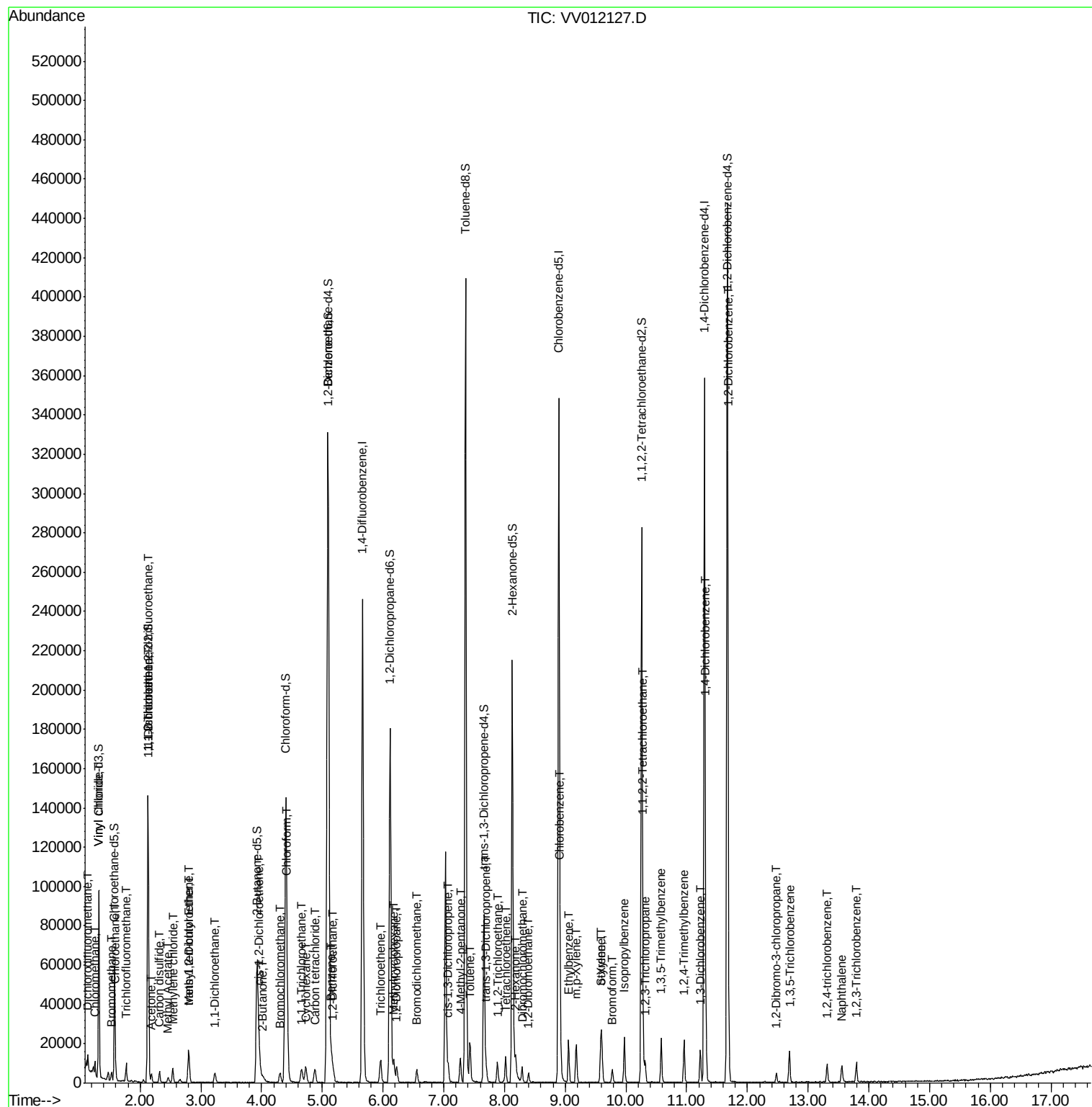
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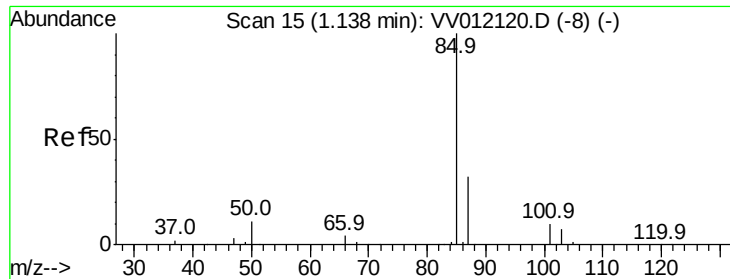
Instrument :
MSVOA_V
ClientSampled :
MDL04

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#2

Dichlorodifluoromethane

Concen: 3.191 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 85 Resp: 4960

Ion Ratio Lower Upper

85 100

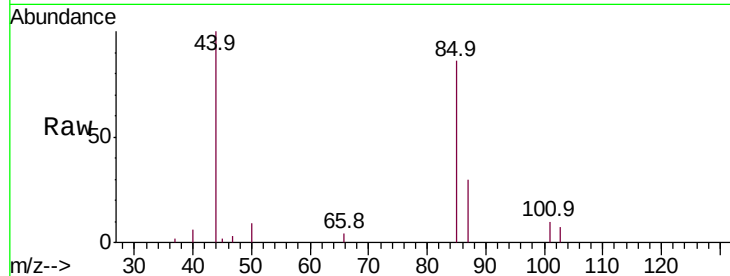
87 35.3 25.3 37.9

Manual Integrations

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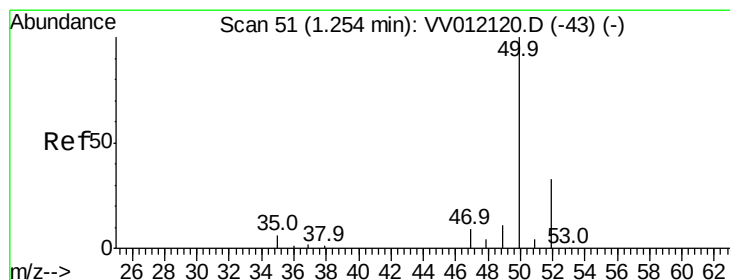
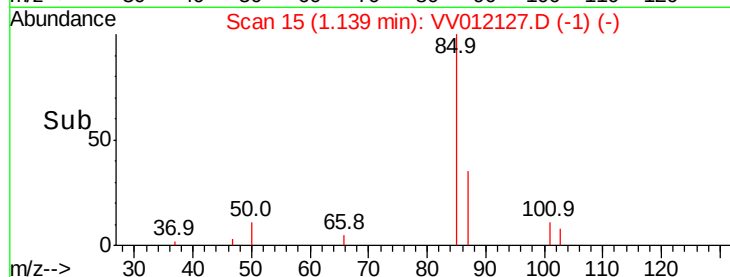
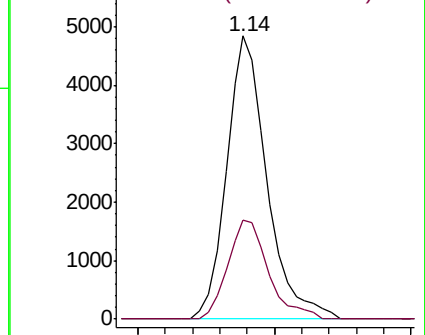
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 3.650 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012127.D

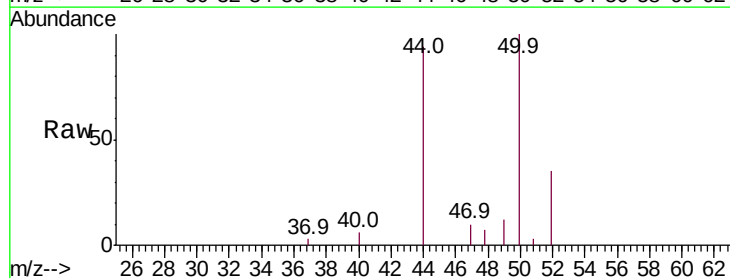
Acq: 07 Aug 2019 14:58

Tgt Ion: 50 Resp: 4028

Ion Ratio Lower Upper

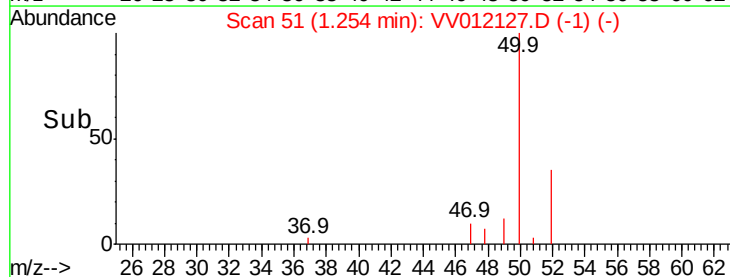
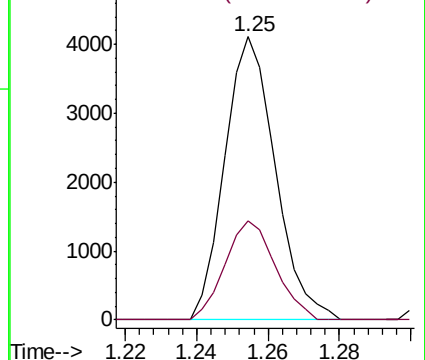
50 100

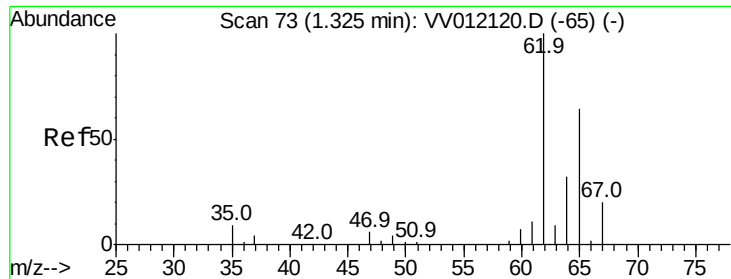
52 35.0 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.734 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 62 Resp: 2912

Ion Ratio Lower Upper

62 100

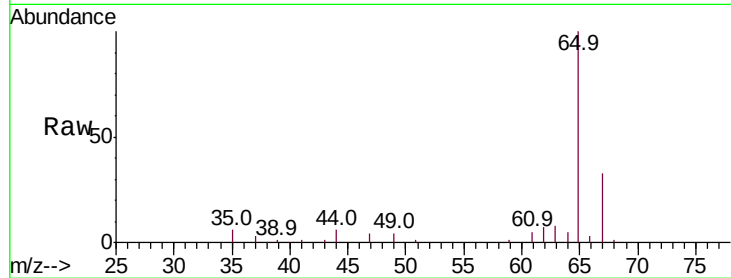
64 62.0 23.0 42.8#

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Abundance Ion 62.00 (61.70 to 62.70): VV012120.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV012127.D (-1) (-)

1.33

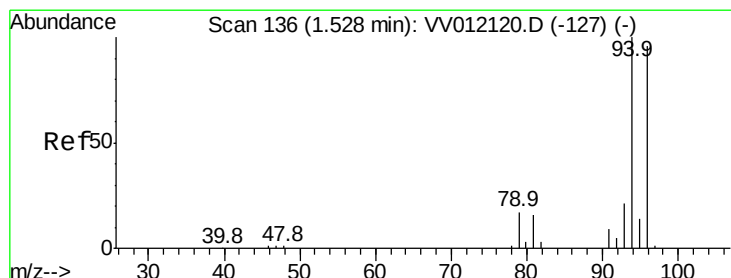
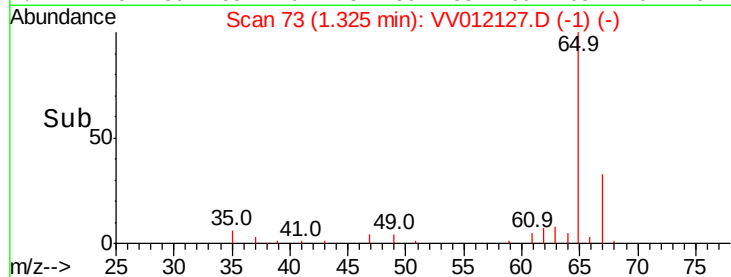
3000

2000

1000

0

Time-->



#6

Bromomethane

Concen: 2.675 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV012127.D

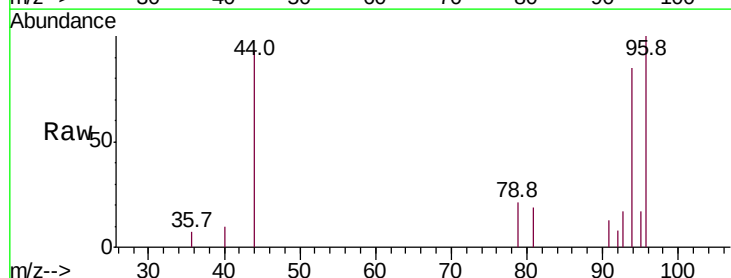
Acq: 07 Aug 2019 14:58

Tgt Ion: 94 Resp: 1654

Ion Ratio Lower Upper

94 100

96 118.3 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV012120.D (-127) (-)

Ion 96.00 (95.70 to 96.70): VV012127.D (-43) (-)

1.53

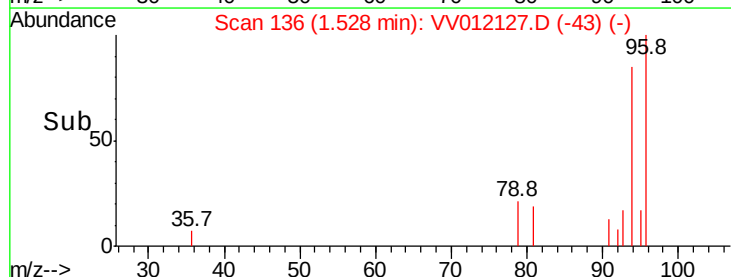
1500

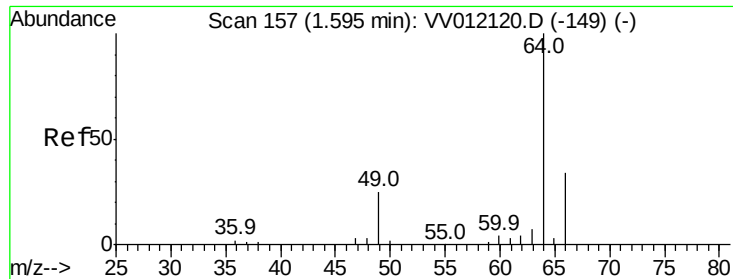
1000

500

0

Time-->





#8

Chloroethane

Concen: 2.873 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 64 Resp: 1603

Ion Ratio Lower Upper

64 100

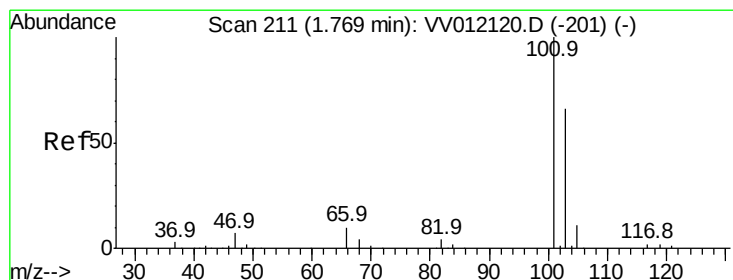
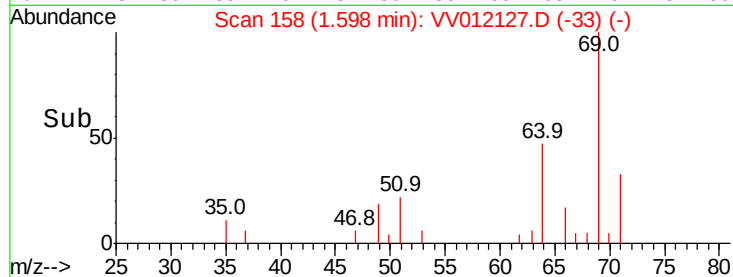
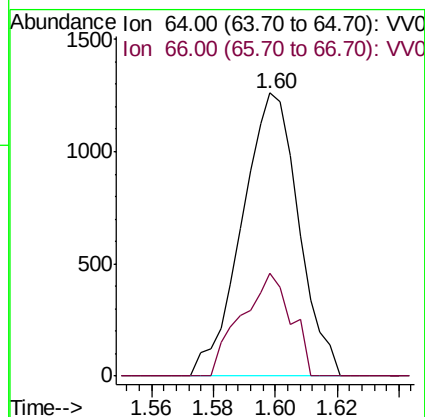
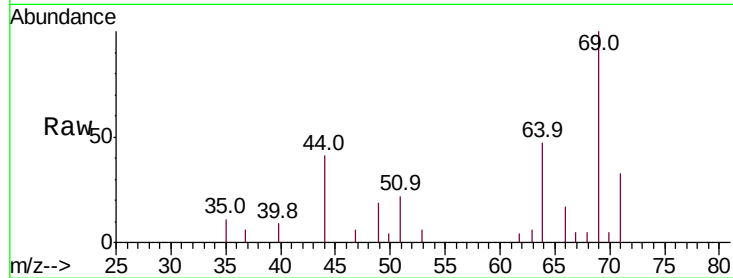
66 36.2 22.6 42.0

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.706 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012127.D

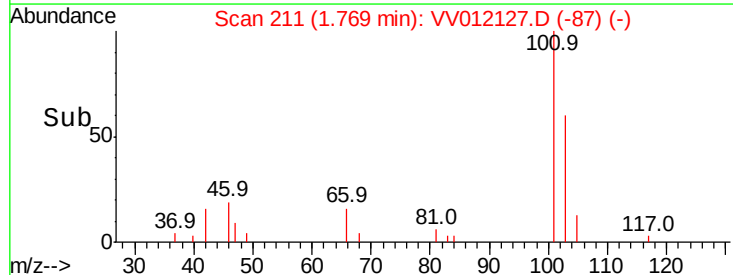
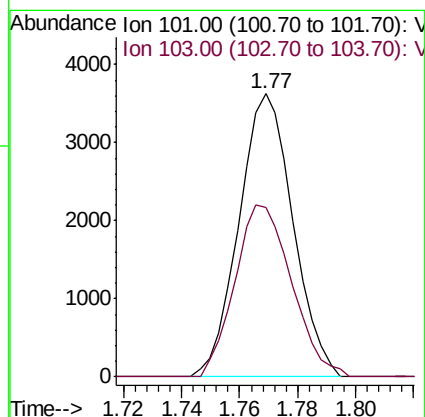
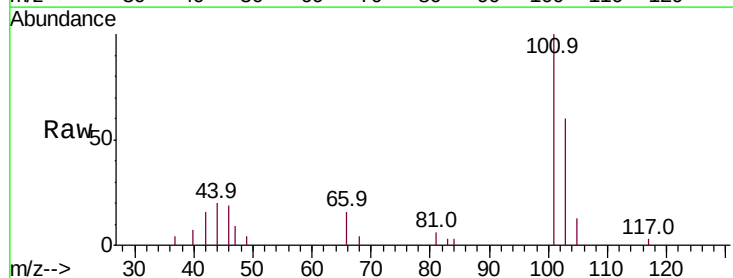
Acq: 07 Aug 2019 14:58

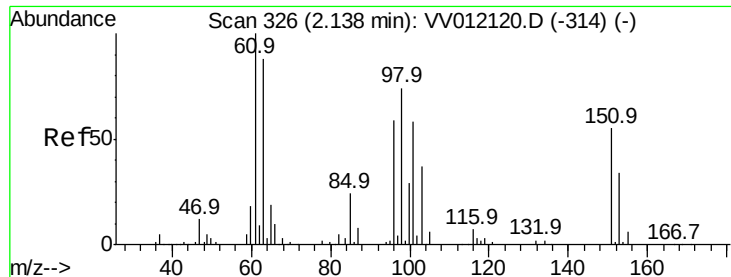
Tgt Ion: 101 Resp: 4687

Ion Ratio Lower Upper

101 100

103 63.8 52.5 78.7





#10

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

Concen: 3.362 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

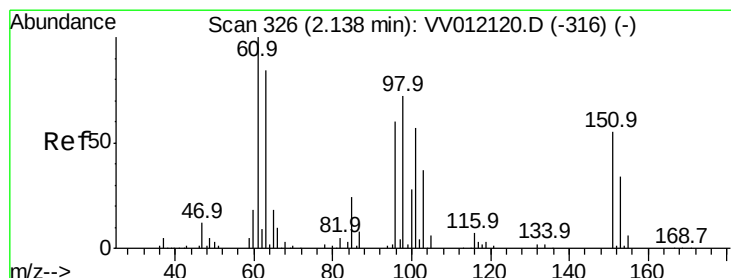
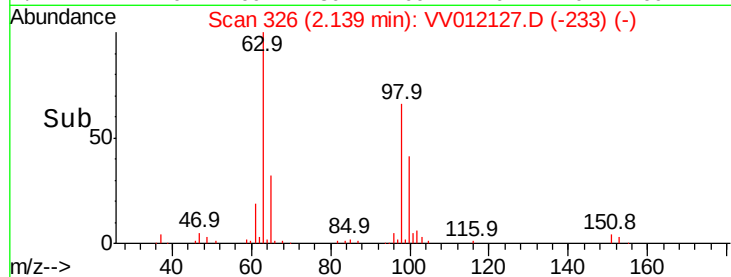
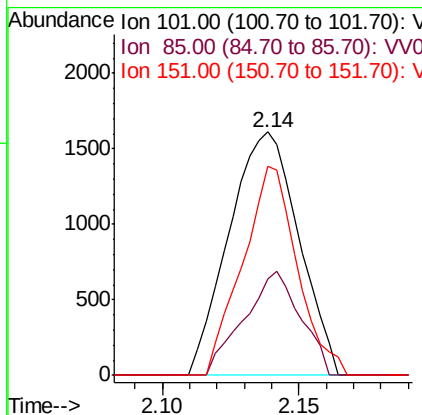
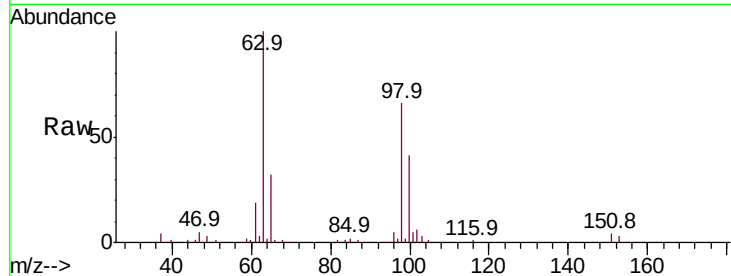
ClientSampleId :

MDL04

Tot Ion:	101	Resp:	2854
Ion Ratio	Lower	Upper	
101	100		
85	34.7	34.4	51.6
151	67.4	72.2	108.2#

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#12

1,1-Dichloroethene

Concen: 3.268 ug/L

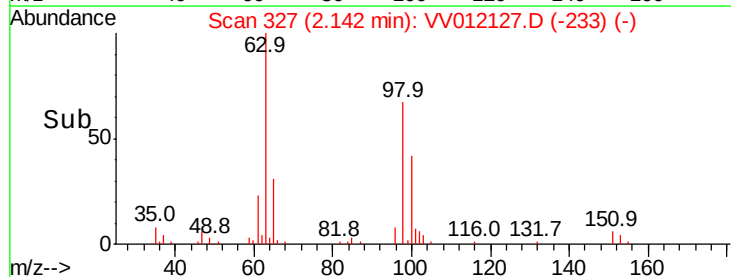
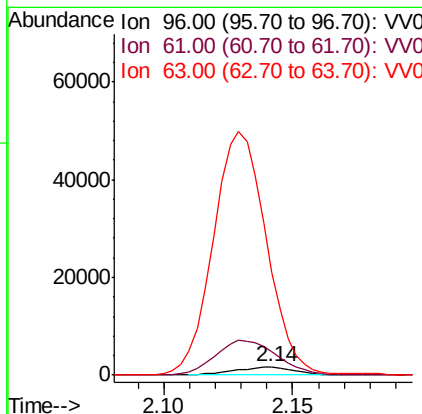
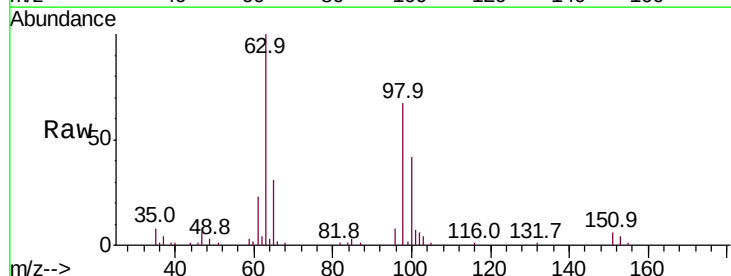
RT: 2.14 min Scan# 327

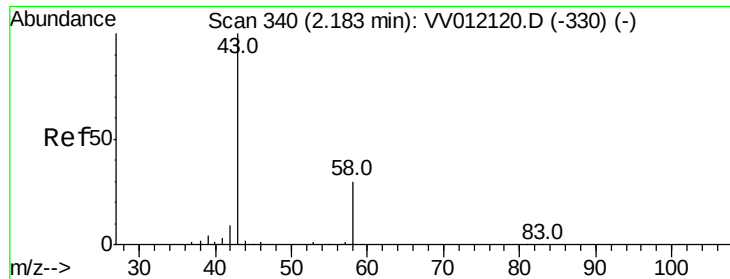
Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Tgt Ion:	96	Resp:	2613
Ion Ratio	Lower	Upper	
96	100		
61	290.0	120.0	223.0#
63	1264.0	98.3	182.7#





#13

Acetone

Concen: 4.465 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 43 Resp: 2668

Ion Ratio Lower Upper

43 100

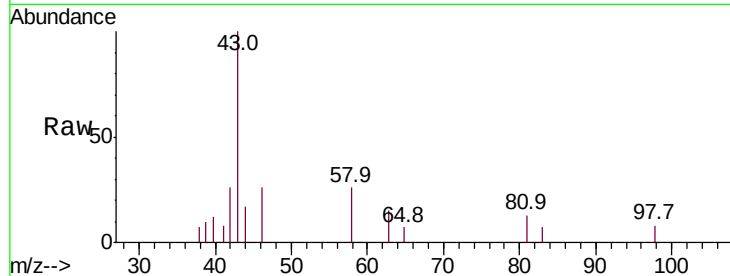
58 27.8 0.0 59.2

Manual Integrations

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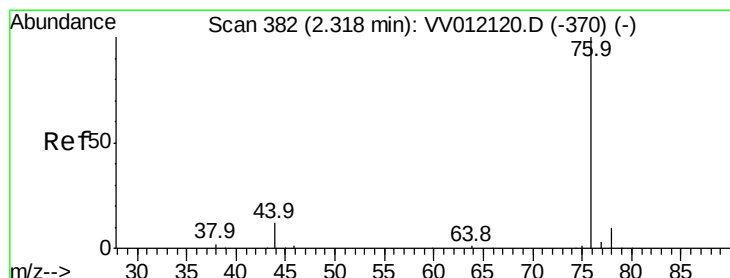
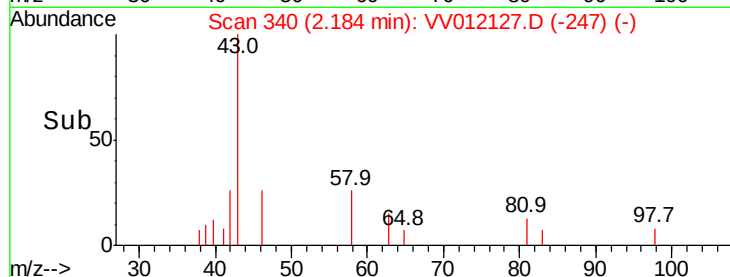
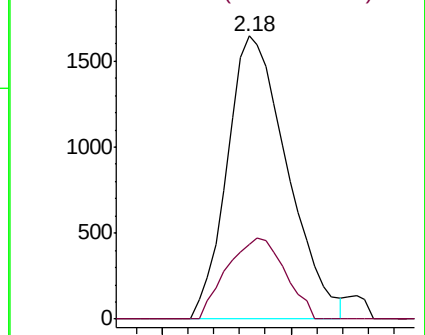
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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 2.396 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012127.D

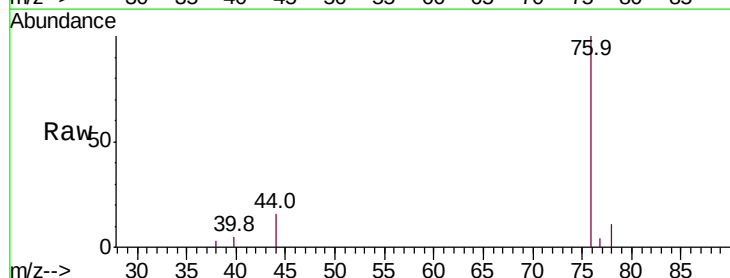
Acq: 07 Aug 2019 14:58

Tgt Ion: 76 Resp: 6474

Ion Ratio Lower Upper

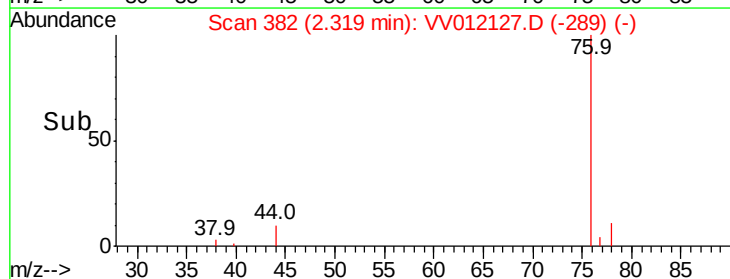
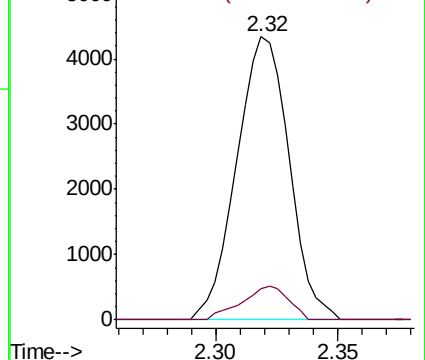
76 100

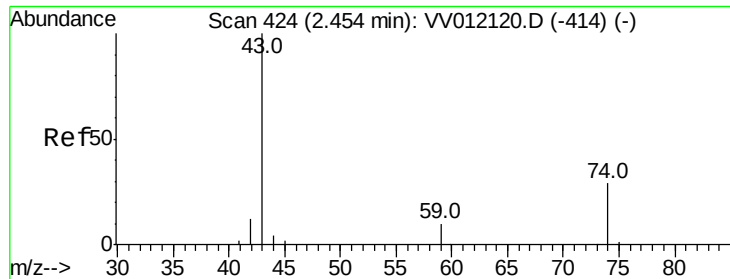
78 10.9 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0





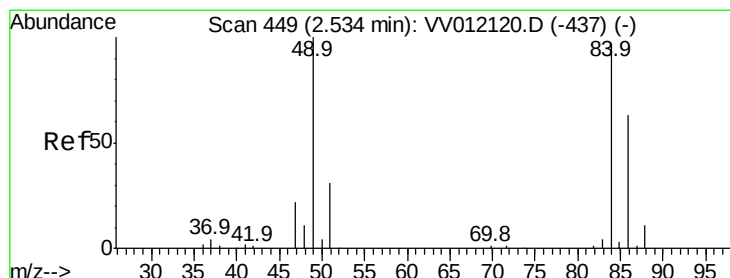
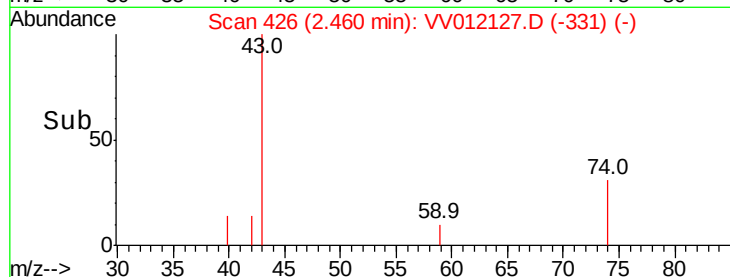
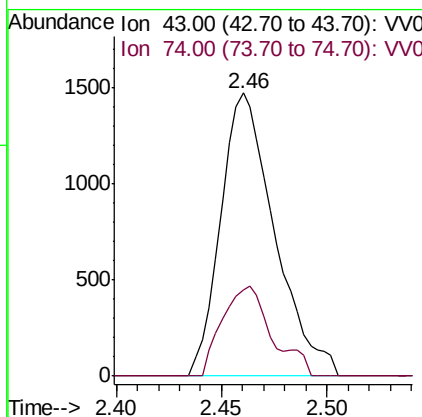
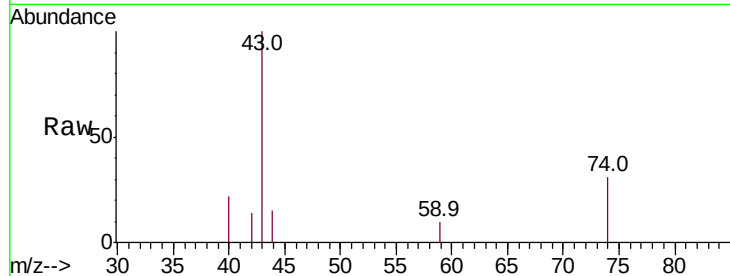
#15
Methyl Acetate
Concen: 2.493 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion: 43 Resp: 2607
Ion Ratio Lower Upper
43 100
74 26.4 21.8 32.6

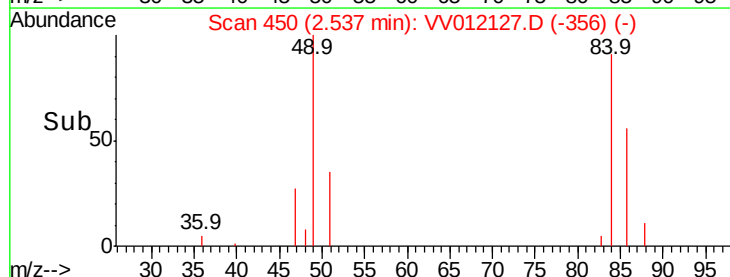
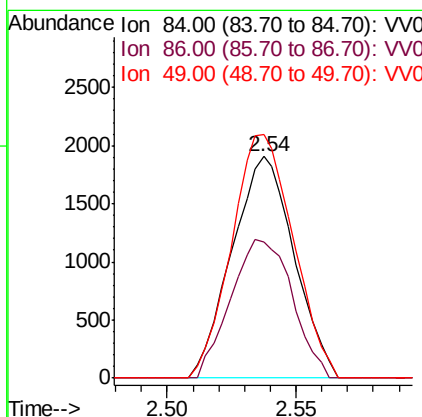
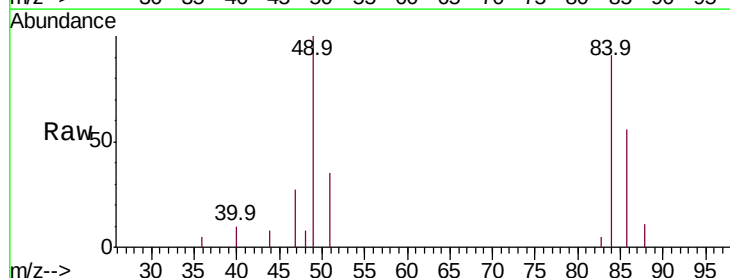
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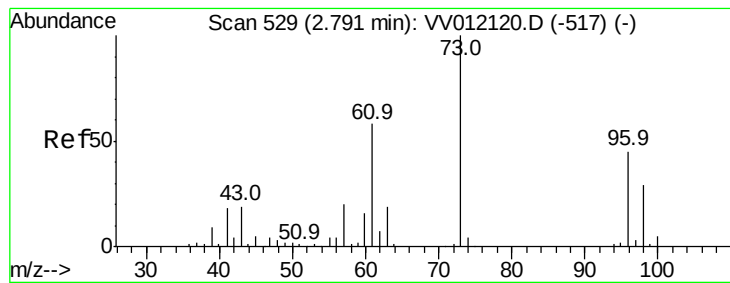
MMDadoda
8/8/2019 11:45:29 AM



#16
Methylene chloride
Concen: 2.641 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Tgt Ion: 84 Resp: 3204
Ion Ratio Lower Upper
84 100
86 61.5 45.7 84.9
49 109.9 76.6 142.2





#17

trans-1,2-Dichloroethene

Concen: 2.552 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 96 Resp: 2881

Ion Ratio Lower Upper

96 100

61 141.0 90.6 168.3

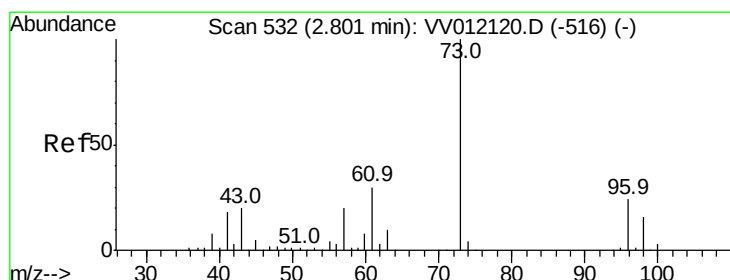
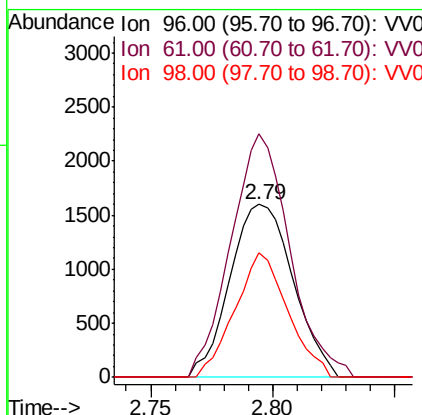
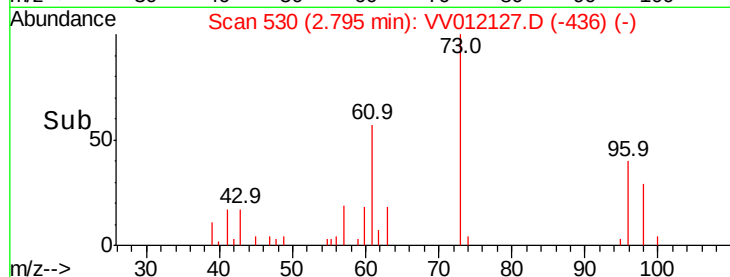
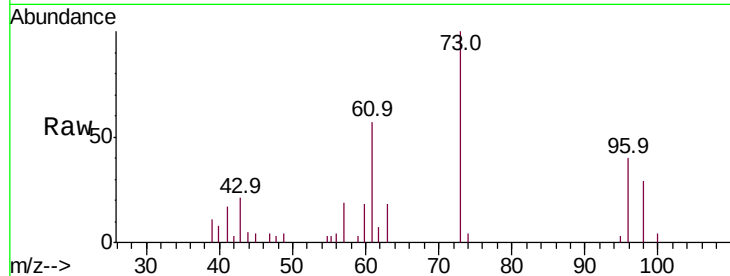
98 72.1 44.2 82.2

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#18

Methyl tert-butyl Ether

Concen: 2.719 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

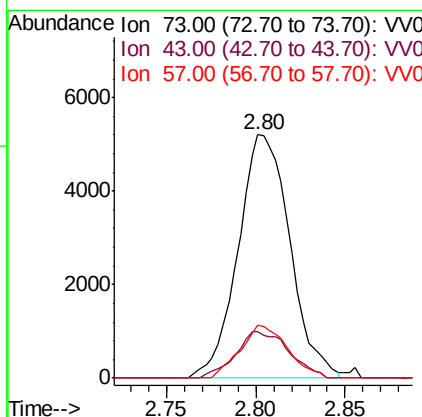
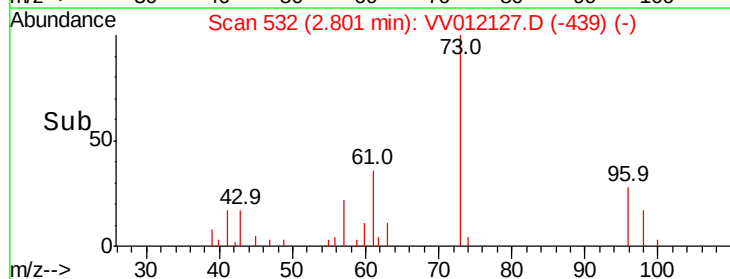
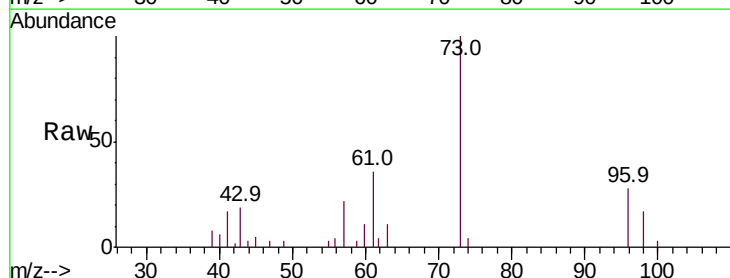
Tgt Ion: 73 Resp: 10545

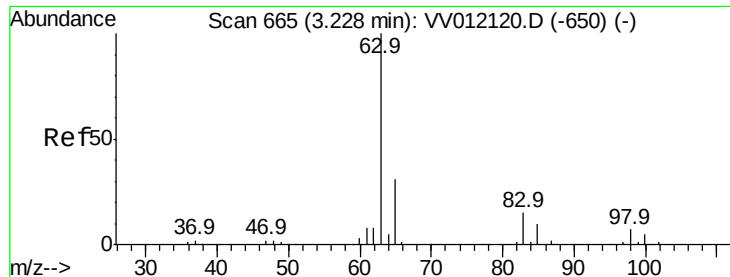
Ion Ratio Lower Upper

73 100

43 19.8 15.6 23.4

57 20.0 16.0 24.0





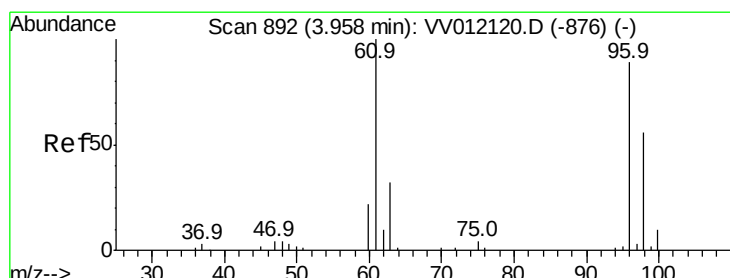
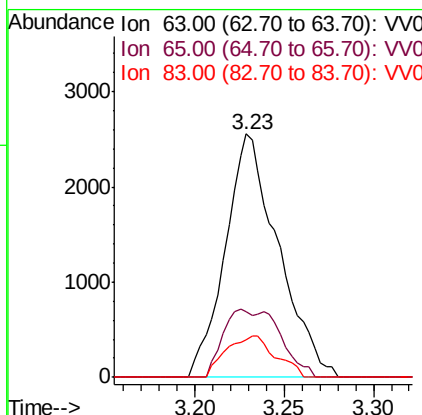
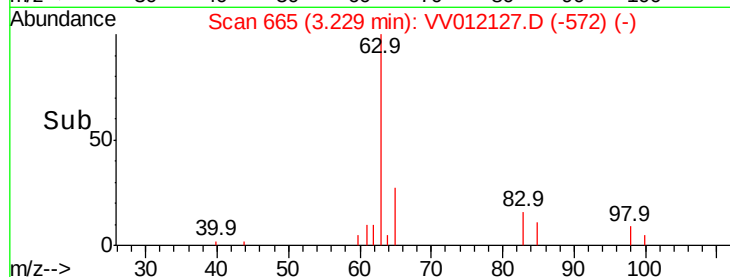
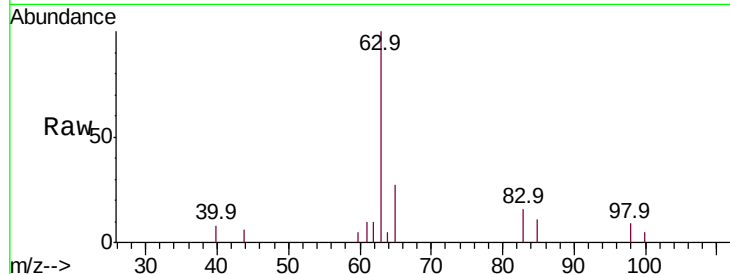
#19
 1,1-Dichloroethane
 Concen: 2.565 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
63	100		
65	26.9	22.3	41.3
83	15.5	10.3	19.1

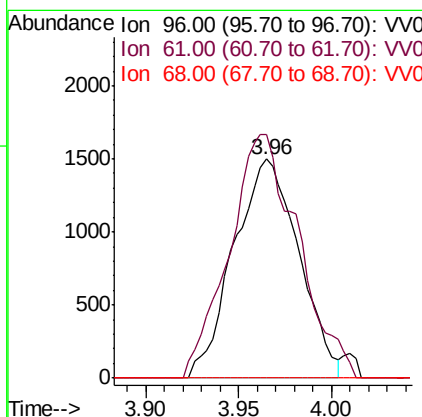
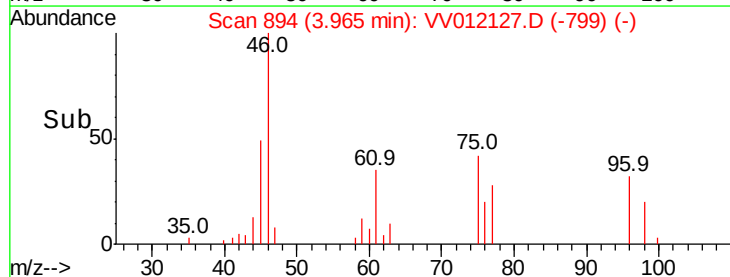
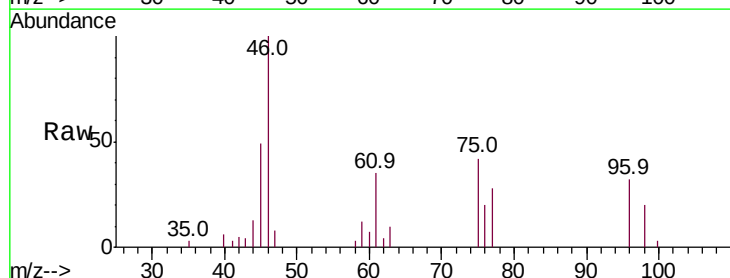
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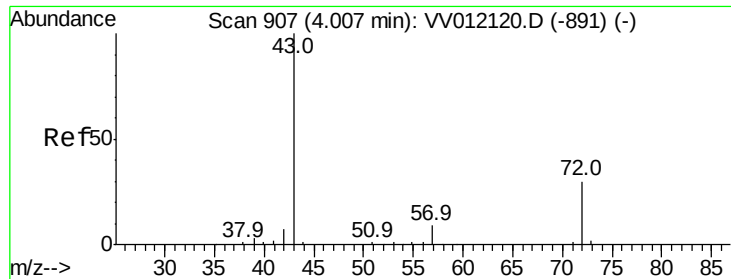
MMDadoda
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#20
 cis-1,2-Dichloroethene
 Concen: 2.753 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. 0.01 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	111.2	80.0	148.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.620 ug/L m

RT: 4.03 min Scan# 914

Delta R.T. 0.02 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 43 Resp: 3558

Ion Ratio Lower Upper

43 100

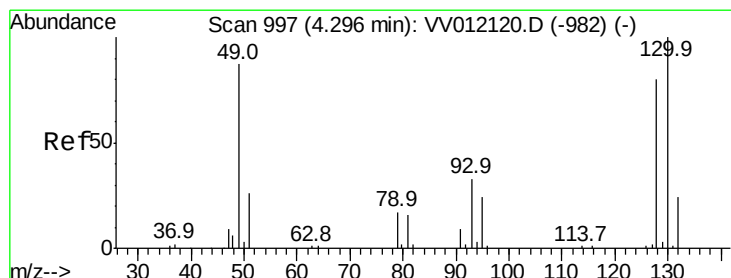
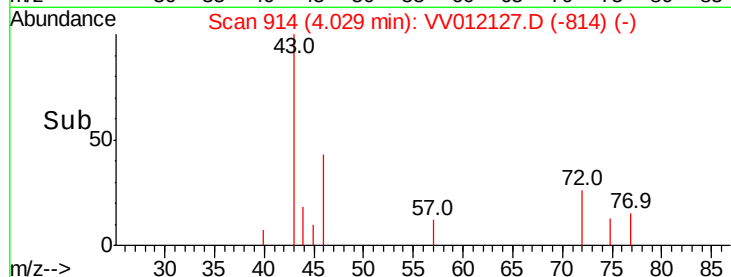
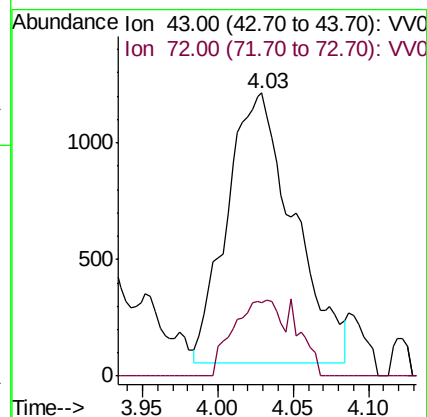
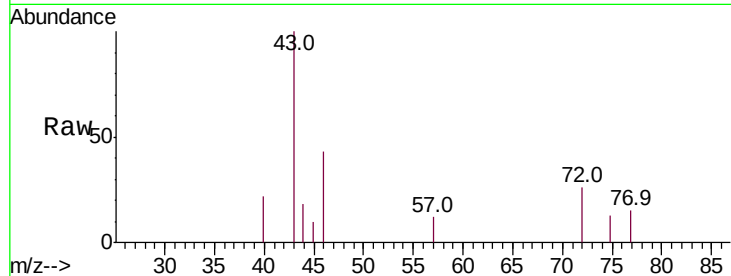
72 12.8 15.0 45.0#

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#23

Bromochloromethane

Concen: 2.666 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Tgt Ion: 128 Resp: 1949

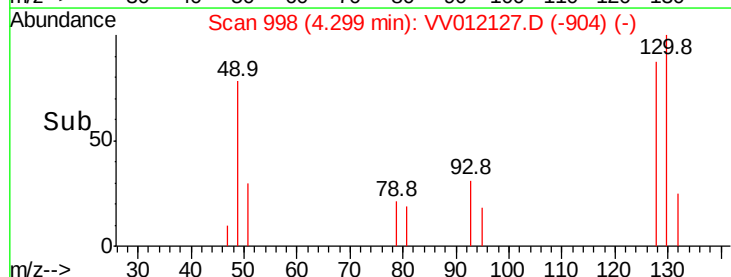
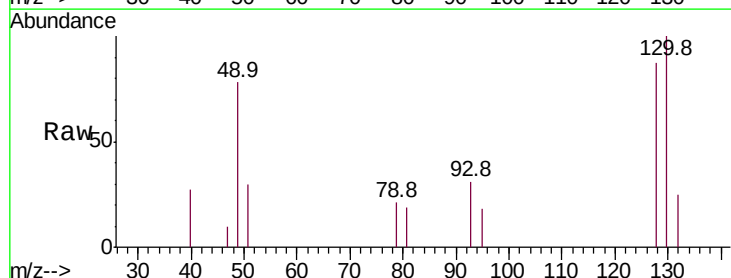
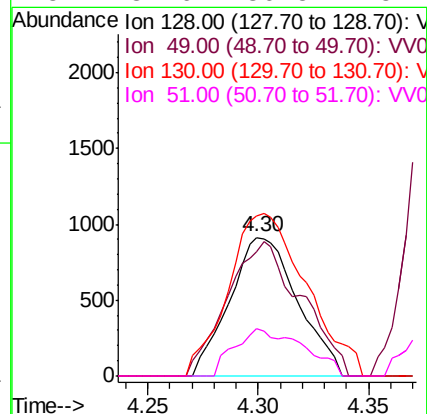
Ion Ratio Lower Upper

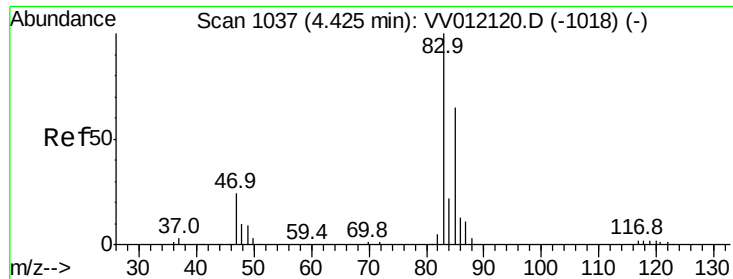
128 100

49 89.8 84.6 157.2

130 115.1 89.9 167.0

51 34.6 30.5 45.7





#25

Chloroform

Concen: 4.627 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 83 Resp: 10796

Ion Ratio Lower Upper

83 100

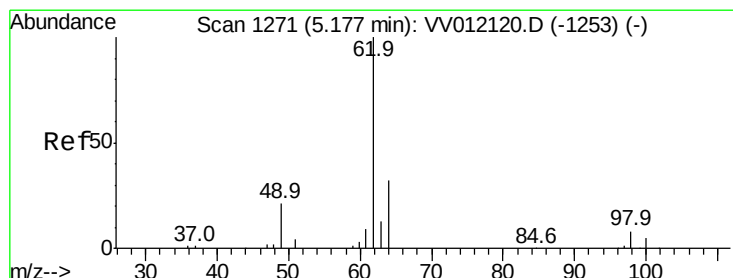
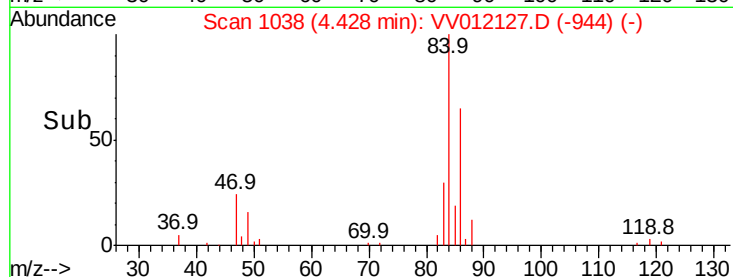
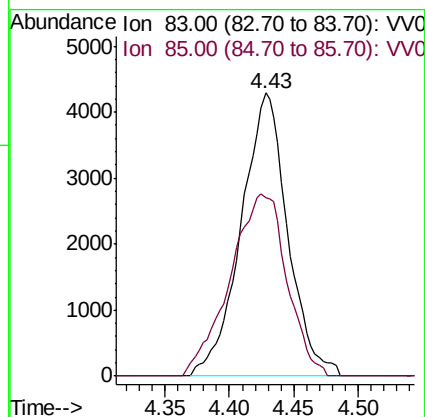
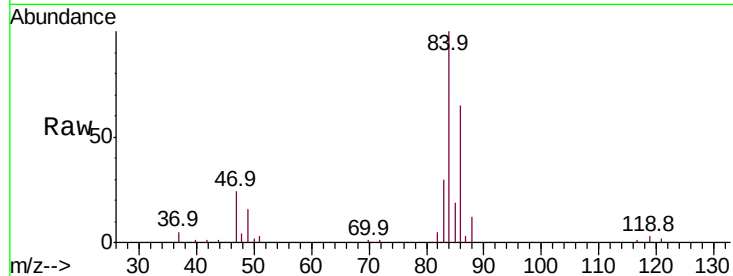
85 63.0 45.8 85.2

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#27

1,2-Dichloroethane

Concen: 3.072 ug/L

RT: 5.18 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VV012127.D

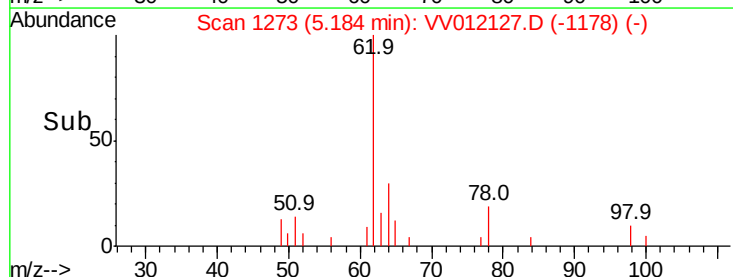
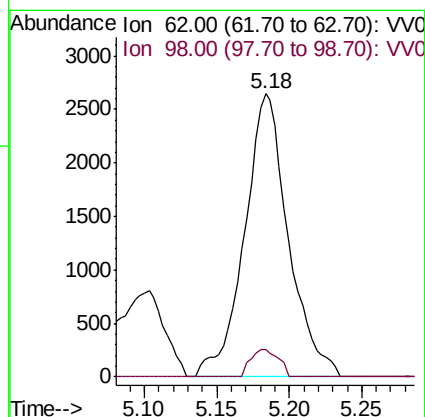
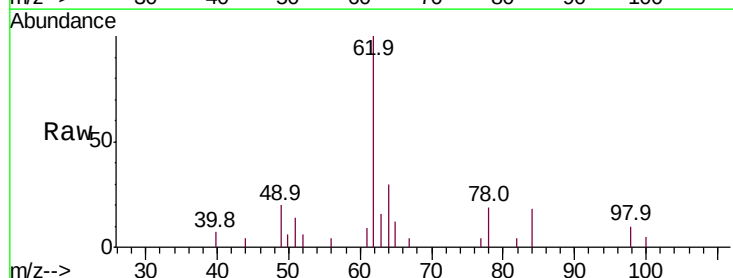
Acq: 07 Aug 2019 14:58

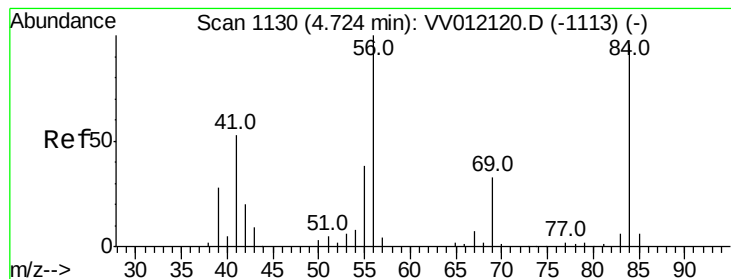
Tgt Ion: 62 Resp: 5571

Ion Ratio Lower Upper

62 100

98 9.6 7.5 11.3





#29

Cyclohexane

Concen: 2.606 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 56 Resp: 4439

Ion Ratio Lower Upper

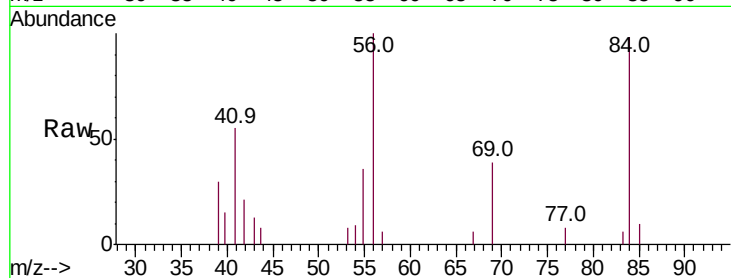
56 100

69 34.2 25.8 38.8

84 102.4 76.0 114.0

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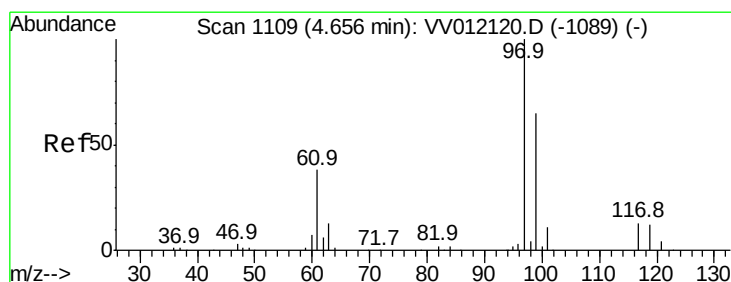
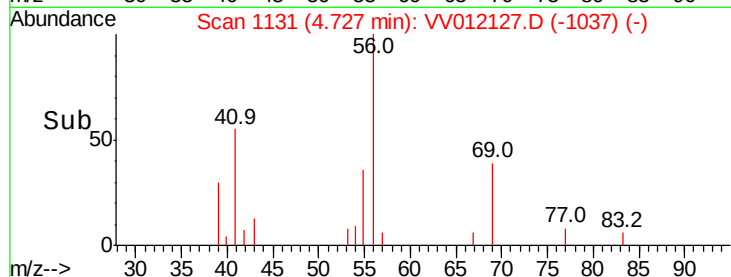
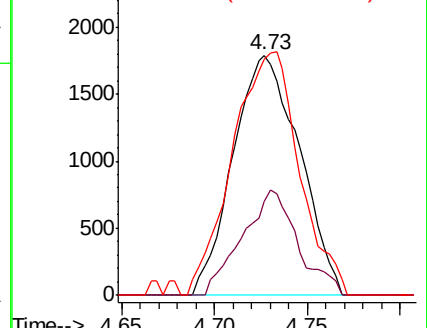
MMDadoda
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Abundance Ion 56.00 (55.70 to 56.70): VV012120.D (-1113) (-)

Ion 69.00 (68.70 to 69.70): VV012120.D (-1113) (-)

Ion 84.00 (83.70 to 84.70): VV012120.D (-1113) (-)



#30

1,1,1-Trichloroethane

Concen: 2.845 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

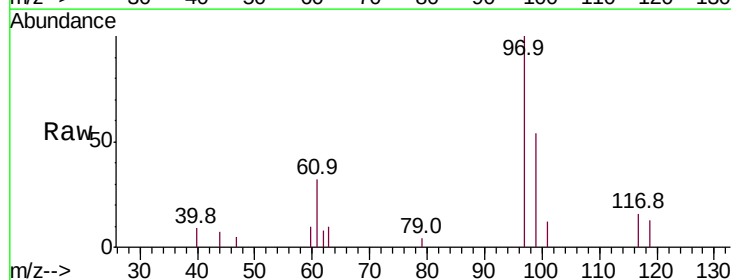
Tgt Ion: 97 Resp: 6155

Ion Ratio Lower Upper

97 100

99 61.3 51.1 76.7

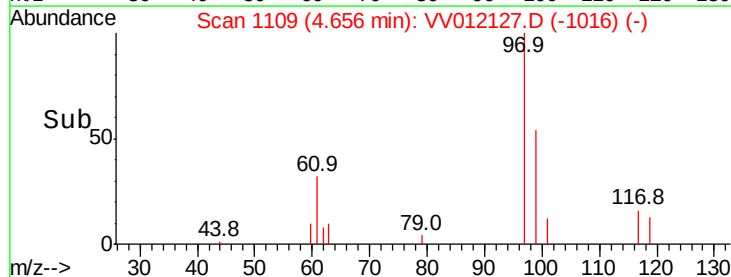
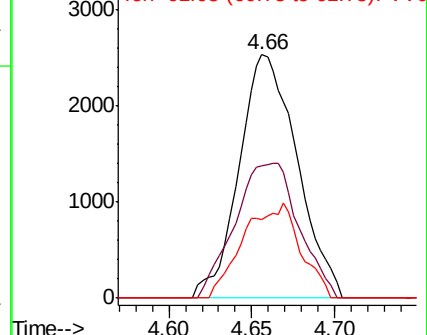
61 16.1 31.3 46.9#

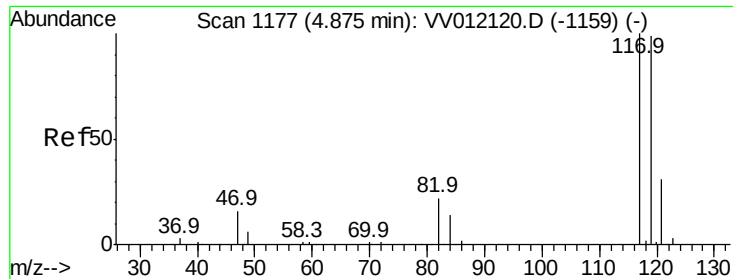


Abundance Ion 97.00 (96.70 to 97.70): VV012120.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VV012120.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VV012120.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 2.755 ug/L

RT: 4.88 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion:117 Resp: 5529

Ion Ratio Lower Upper

117 100

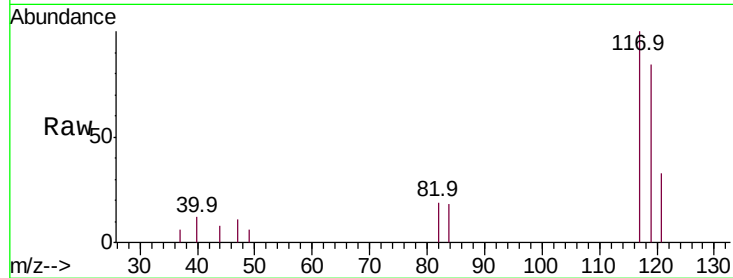
119 88.4 78.2 117.4

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

2500

2000

1500

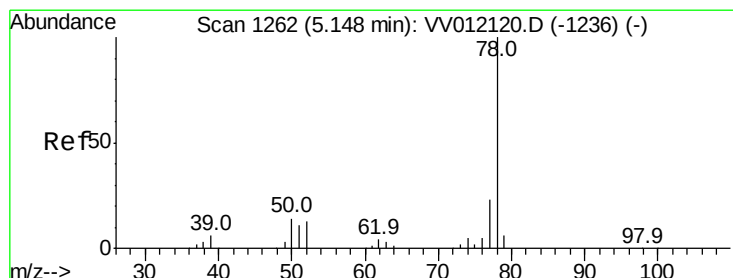
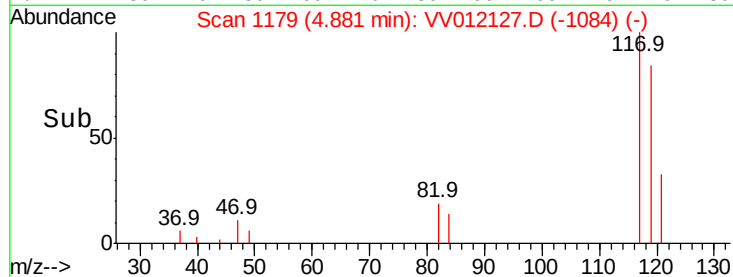
1000

500

0

4.80 4.85 4.90 4.95

Time-->



#33

Benzene

Concen: 2.500 ug/L

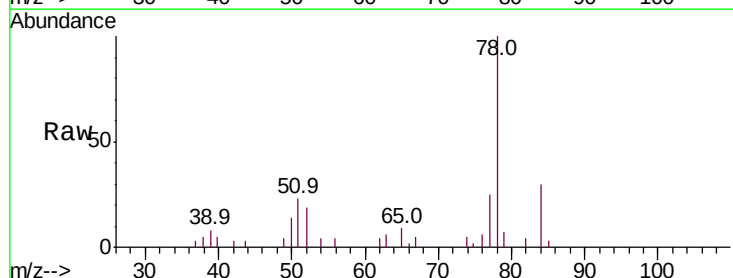
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Tgt Ion: 78 Resp: 11721



Abundance Ion 78.00 (77.70 to 78.70): VV0

6000

5000

4000

3000

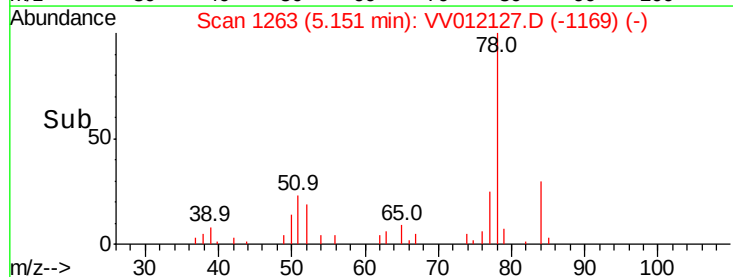
2000

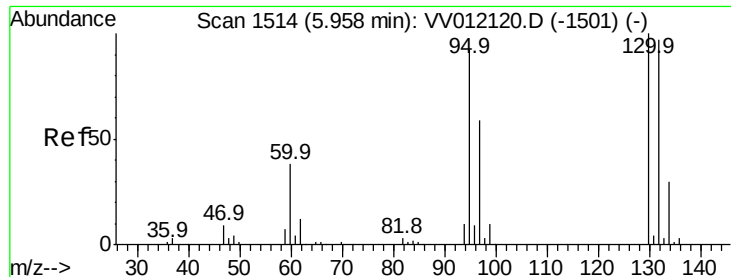
1000

0

5.10 5.15 5.20

Time-->





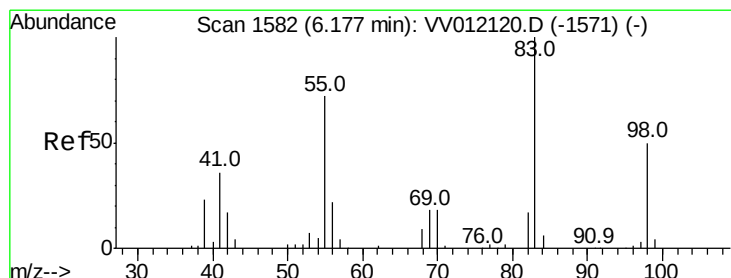
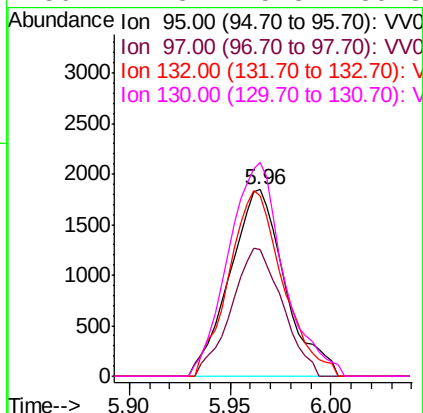
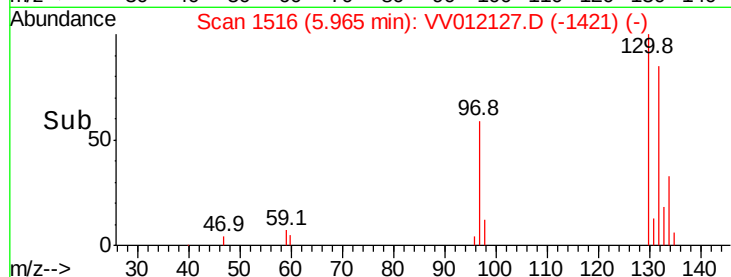
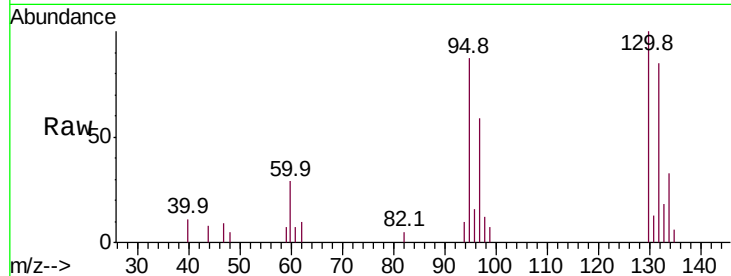
#34
 Trichloroethene
 Concen: 2.699 ug/L
 RT: 5.96 min Scan# 1516
 Delta R.T. 0.01 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	95	Resp	3517
Ion	Ratio	Lower	Upper
95	100		
97	67.6	43.4	80.6
132	96.8	73.1	135.8
130	114.3	75.3	139.8

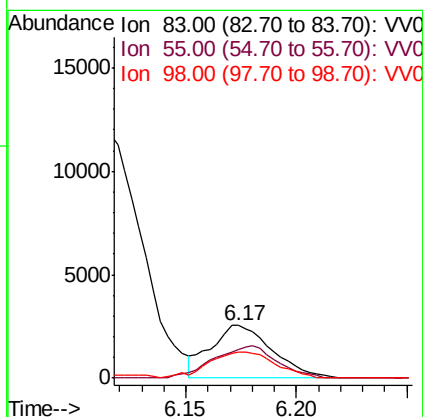
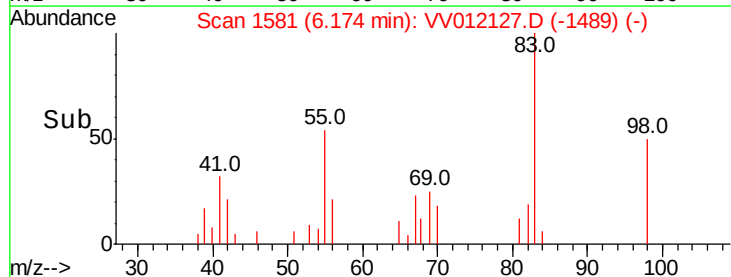
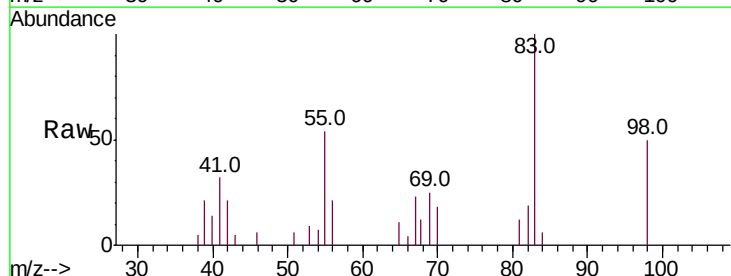
Manual Integrations
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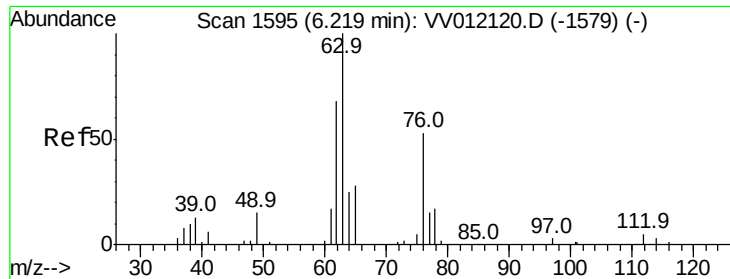
MMDadoda
 8/8/2019 11:45:29 AM



#35
 Methylcyclohexane
 Concen: 2.551 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Tgt Ion	83	Resp	4949
Ion	Ratio	Lower	Upper
83	100		
55	62.2	55.5	83.3
98	51.0	38.5	57.7





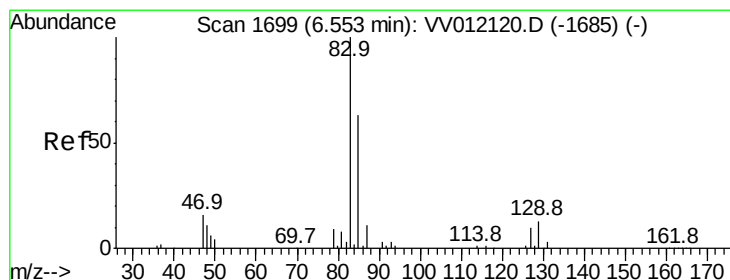
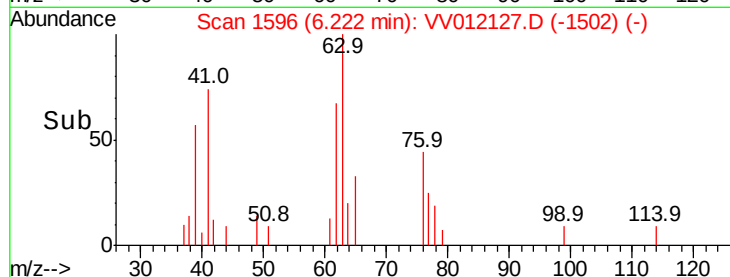
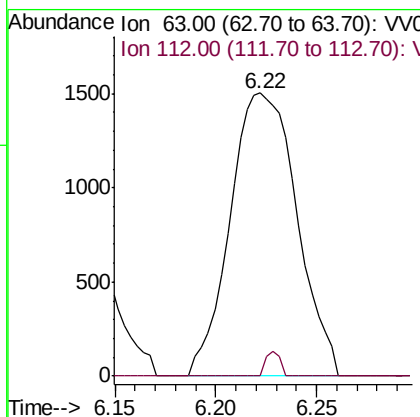
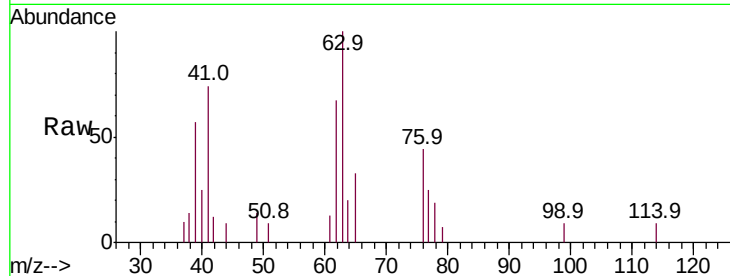
#37
 1,2-Dichloropropane
 Concen: 3.033 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tot Ion: 63 Resp: 3469
 Ion Ratio Lower Upper
 63 100
 112 1.9 4.2 6.2#

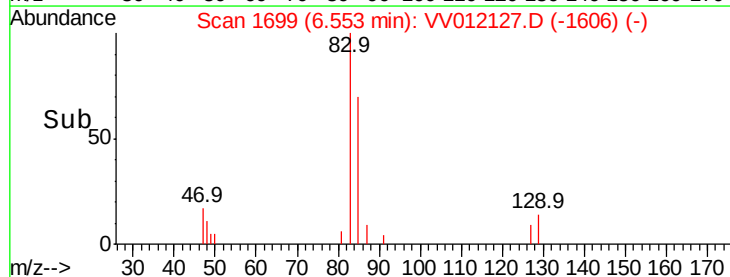
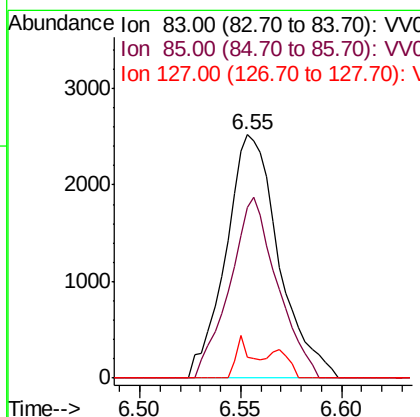
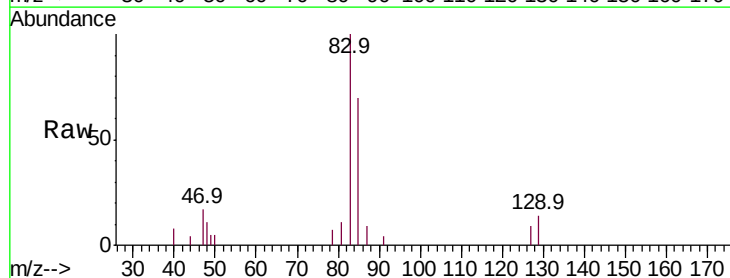
Manual Integrations
 APPROVED

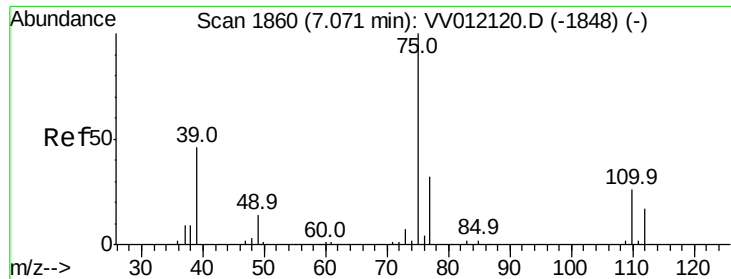
MMDadoda
 8/8/2019 11:45:29 AM



#38
 Bromodichloromethane
 Concen: 2.565 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Tgt Ion: 83 Resp: 4615
 Ion Ratio Lower Upper
 83 100
 85 70.2 45.0 83.6
 127 8.7 7.9 11.9





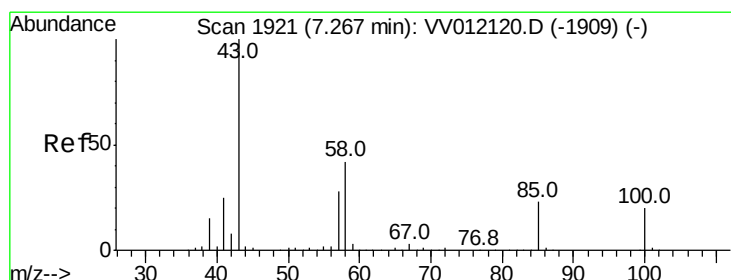
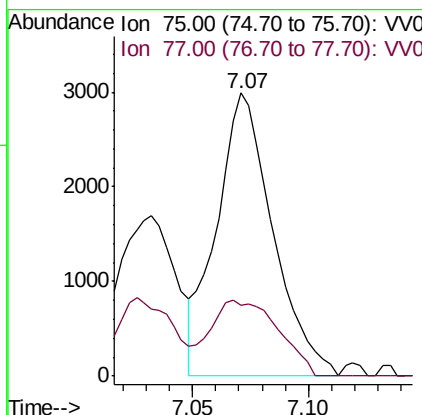
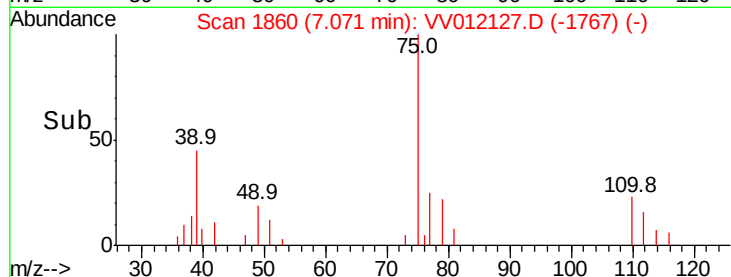
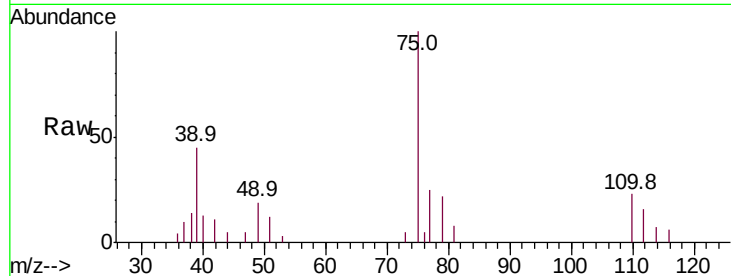
#39
 cis-1,3-Dichloropropene
 Concen: 2.506 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tot Ion: 75 Resp: 5052
 Ion Ratio Lower Upper
 75 100
 77 25.2 22.3 41.5

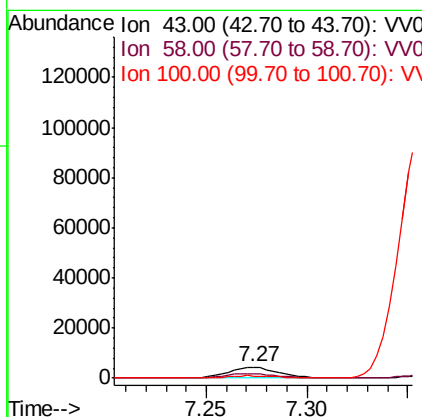
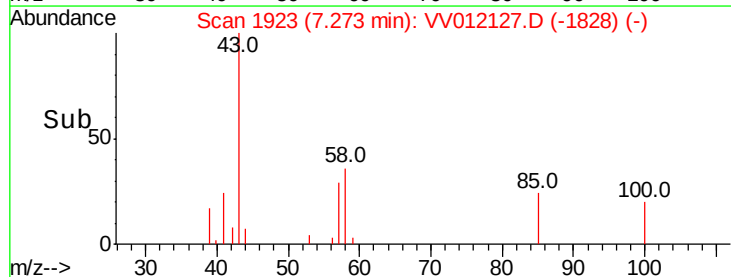
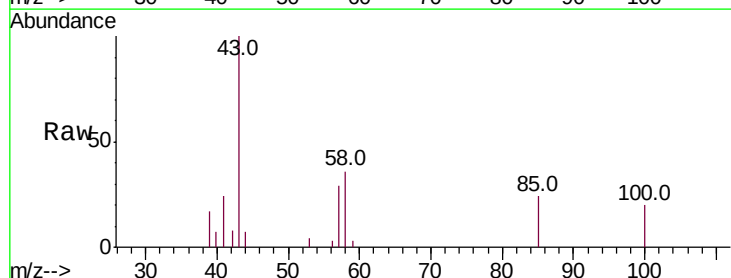
Manual Integrations
 APPROVED

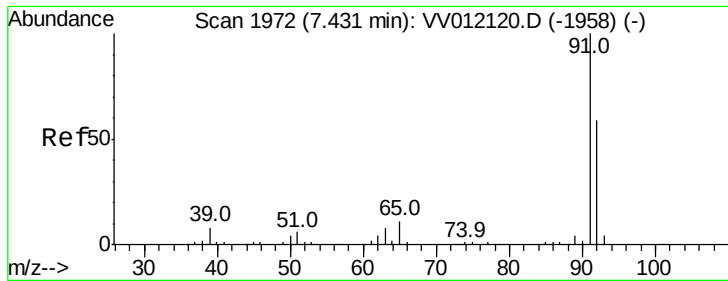
MMDadoda
 8/8/2019 11:45:29 AM



#40
 4-Methyl-2-pentanone
 Concen: 5.288 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.01 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Tgt Ion: 43 Resp: 7783
 Ion Ratio Lower Upper
 43 100
 58 40.3 33.4 50.2
 100 18.3 15.0 22.4





#42

Toluene

Concen: 2.739 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 14272

Ion Ratio Lower Upper

91 100

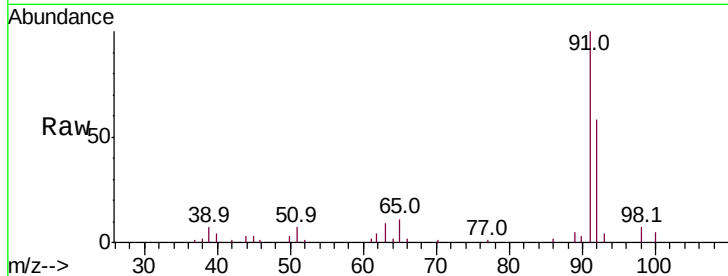
92 58.0 40.1 74.5

Manual Integrations

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MMDadoda

8/8/2019 11:45:29 AM



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

8000

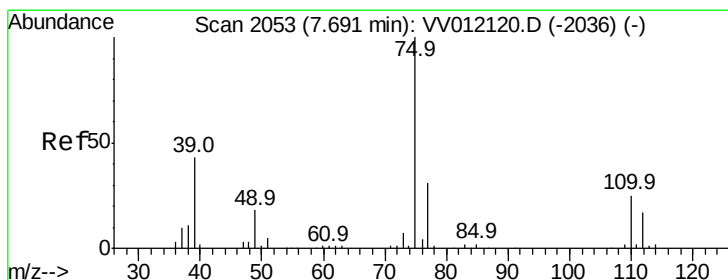
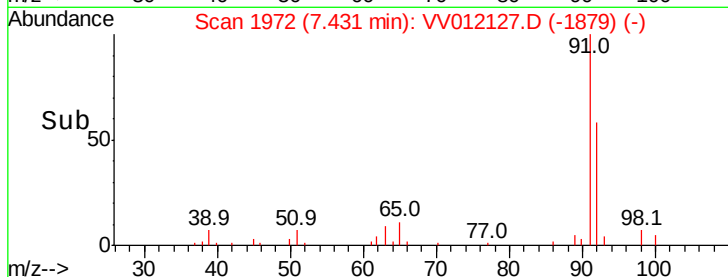
6000

4000

2000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.581 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012127.D

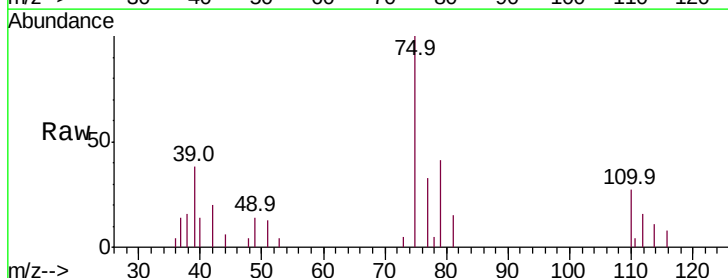
Acq: 07 Aug 2019 14:58

Tgt Ion: 75 Resp: 4913

Ion Ratio Lower Upper

75 100

77 32.5 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.69

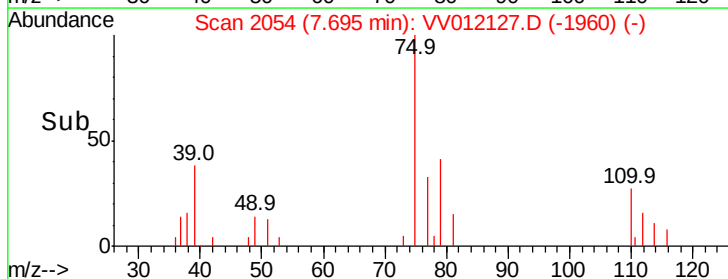
3000

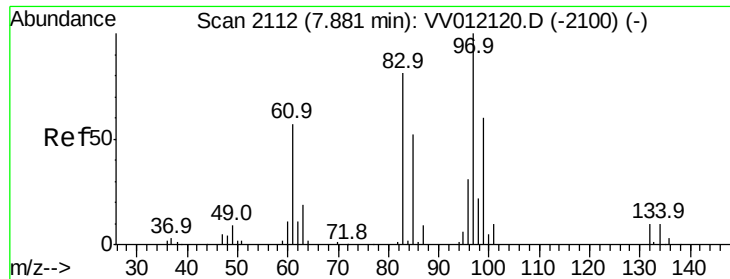
2000

1000

0

Time-->





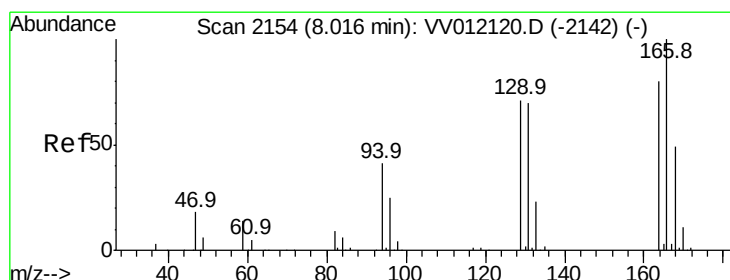
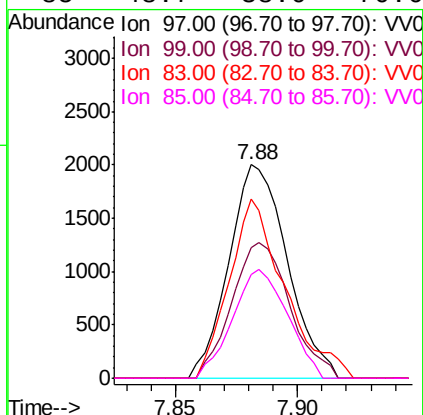
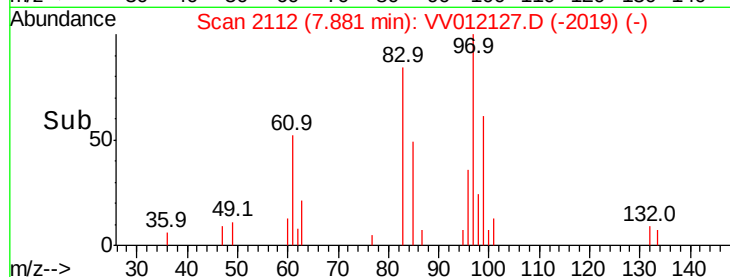
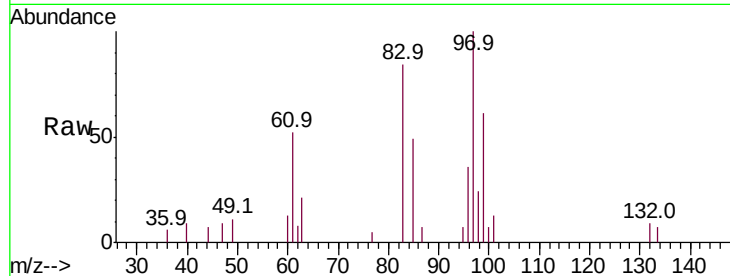
#45
1,1,2-Trichloroethane
Concen: 2.698 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	97	Resp	3326
Ion	Ratio	Lower	Upper
97	100		
99	61.0	47.2	87.6
83	83.8	58.0	107.6
85	48.7	38.0	70.6

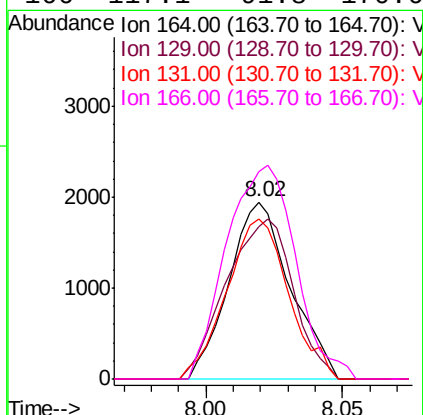
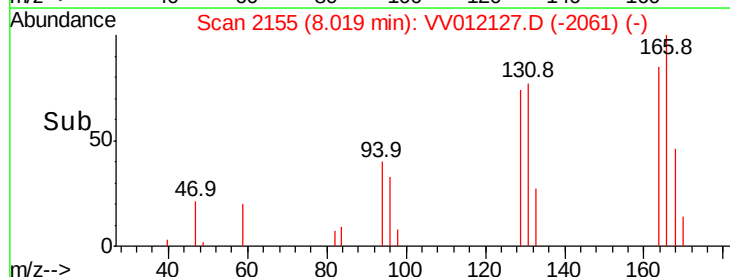
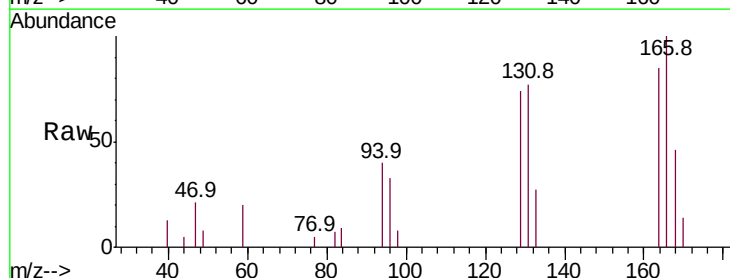
Manual Integrations
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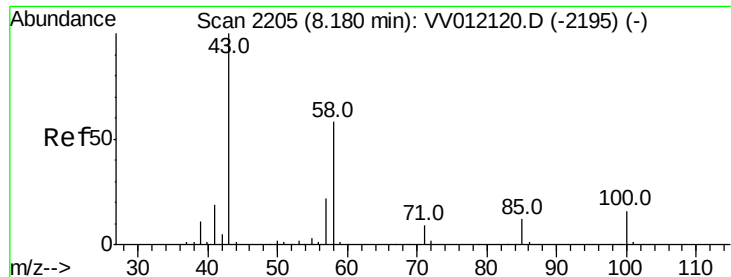
MMDadoda
8/8/2019 11:45:29 AM



#46
Tetrachloroethene
Concen: 2.509 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Tgt Ion	164	Resp	3046
Ion	Ratio	Lower	Upper
164	100		
129	86.4	64.3	119.5
131	90.3	60.1	111.7
166	117.1	91.8	170.6





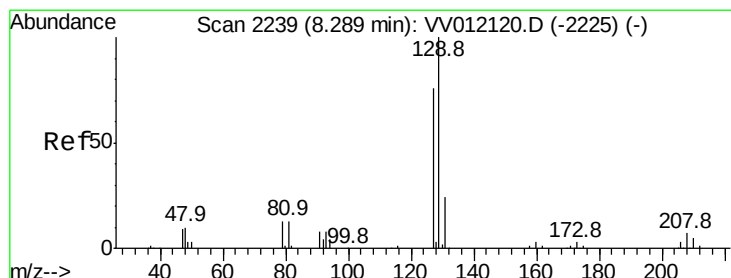
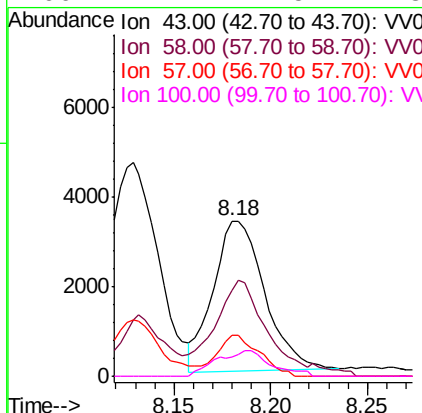
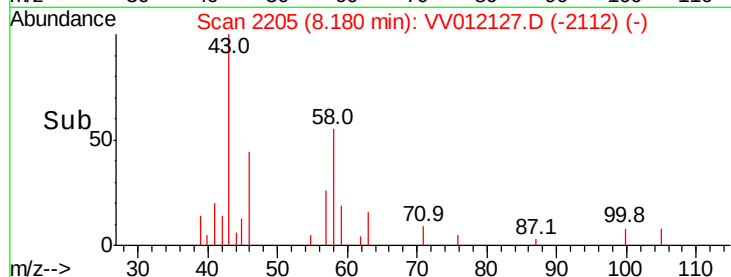
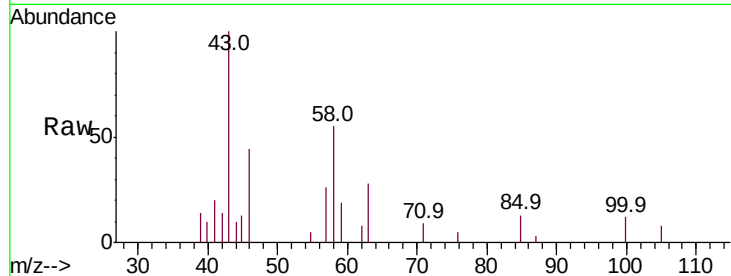
#48
2-Hexanone
Concen: 5.617 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	63.9	45.6	68.4
57	22.8	17.0	25.6
100	11.1	11.5	17.3

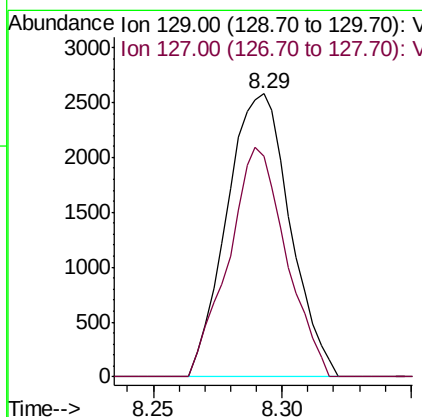
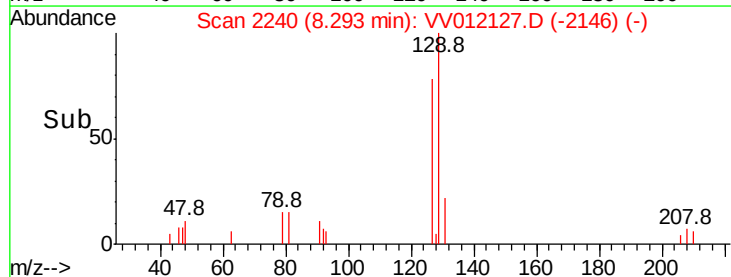
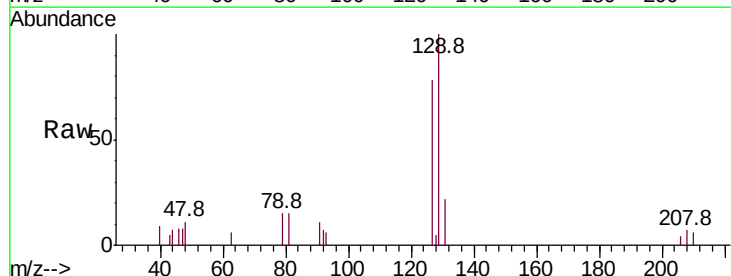
Manual Integrations
APPROVED

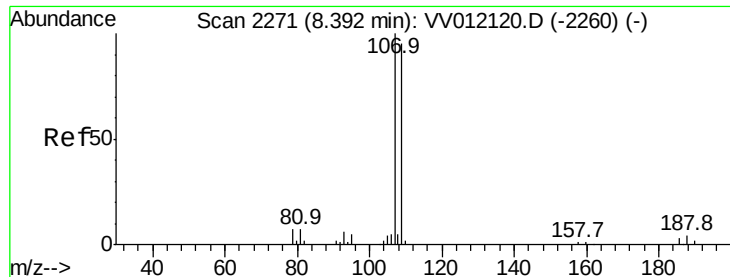
MMDadoda
8/8/2019 11:45:29 AM



#49
Dibromochloromethane
Concen: 2.751 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	53.8	100.0





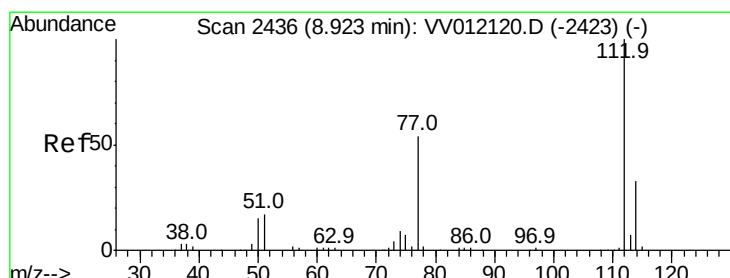
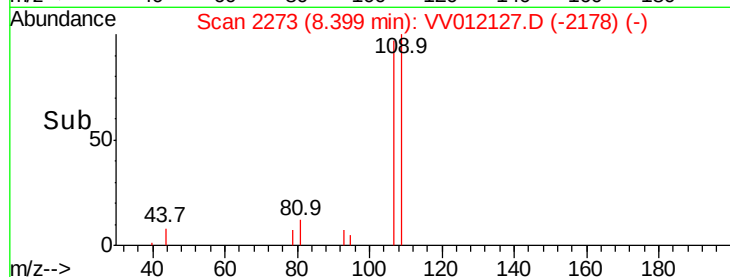
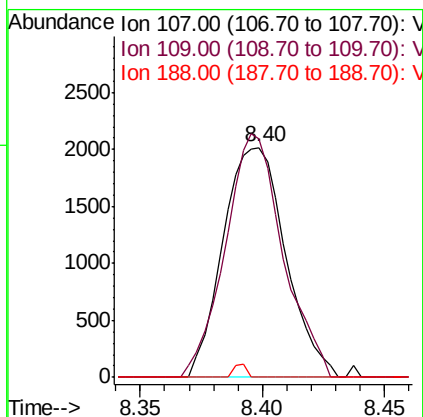
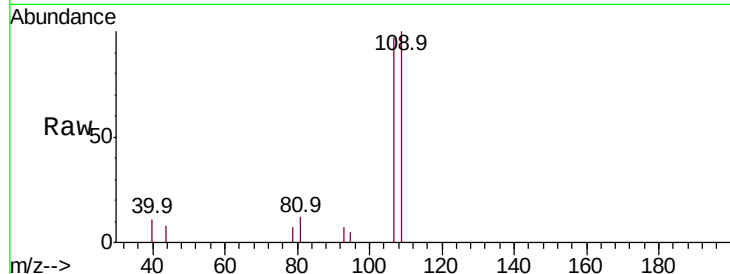
#50
1,2-Dibromoethane
Concen: 2.636 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.01 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
109	103.6	67.0	124.4	
188	0.0	3.9	5.9#	

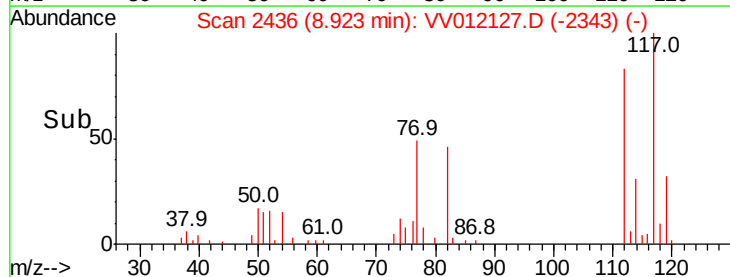
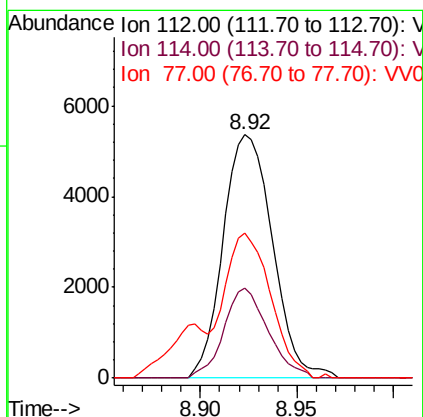
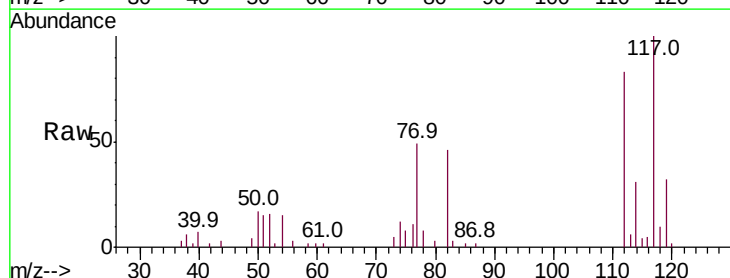
Manual Integrations
APPROVED

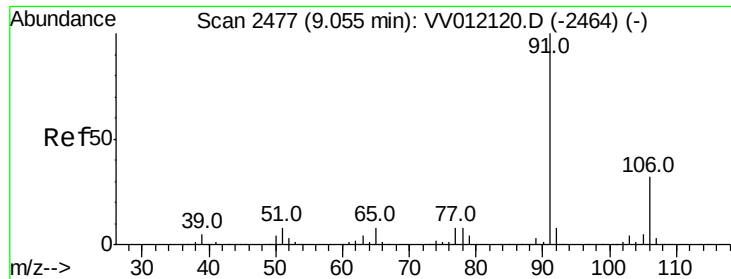
MMDadoda
8/8/2019 11:45:29 AM



#51
Chlorobenzene
Concen: 2.718 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
114	37.1	22.8	42.4	
77	59.3	44.7	67.1	





#52

Ethylbenzene

Concen: 2.513 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012127.D

Acq: 07 Aug 2019 14:58

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 91 Resp: 14688

Ion Ratio Lower Upper

91 100

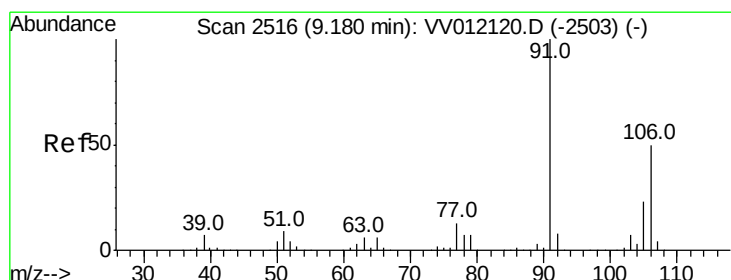
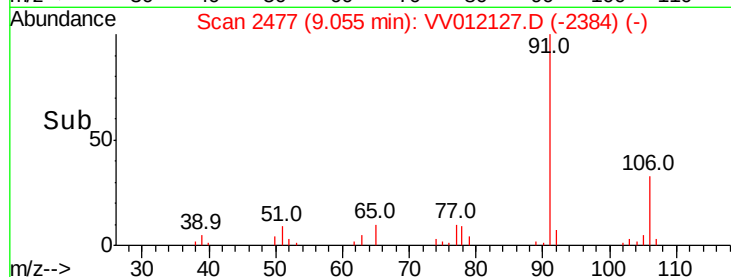
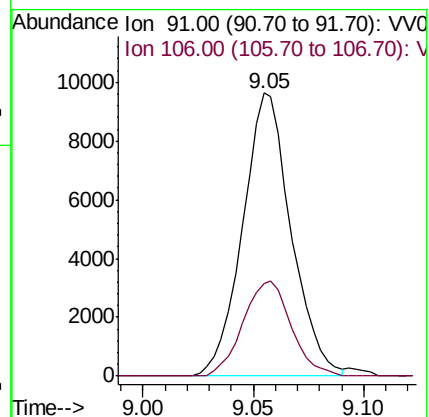
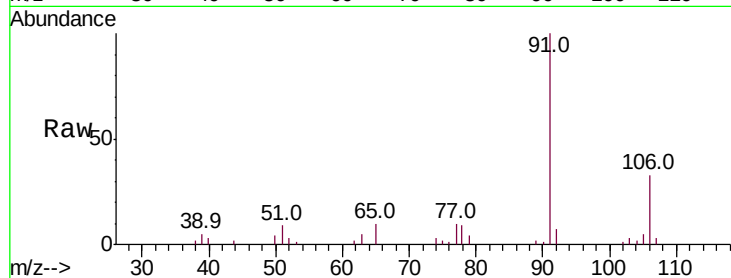
106 32.8 22.3 41.5

Manual Integrations

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MMDadoda

8/8/2019 11:45:29 AM



#53

m,p-Xylene

Concen: 2.587 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012127.D

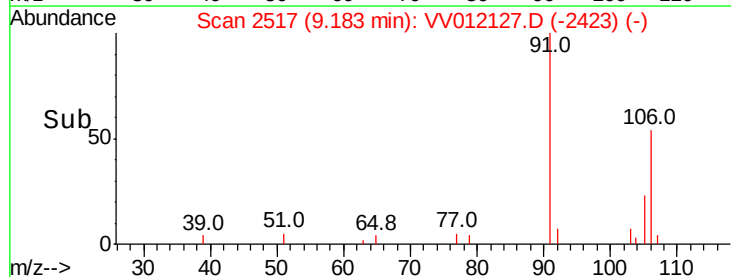
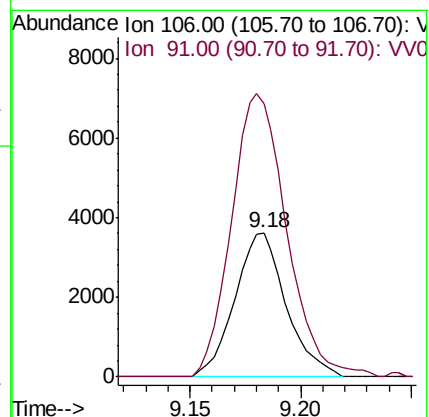
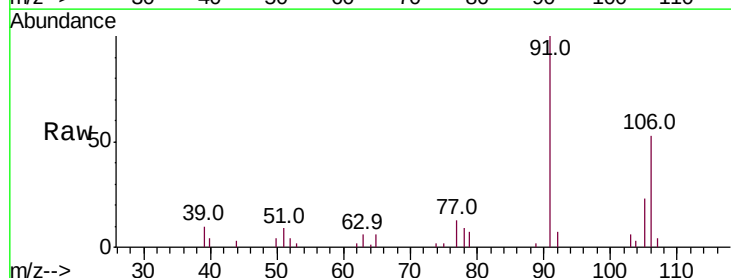
Acq: 07 Aug 2019 14:58

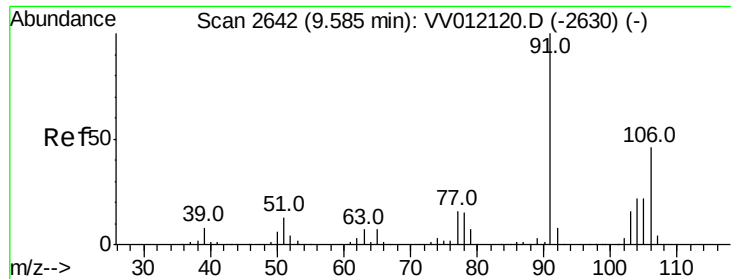
Tgt Ion: 106 Resp: 5834

Ion Ratio Lower Upper

106 100

91 189.7 146.7 272.5





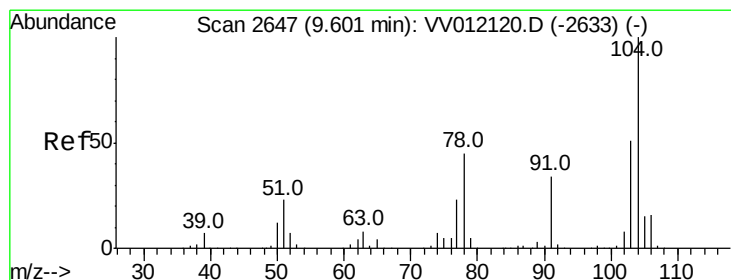
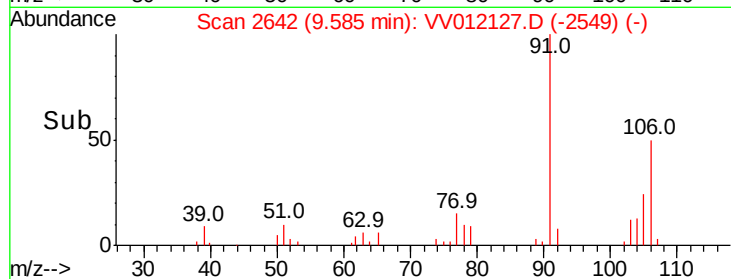
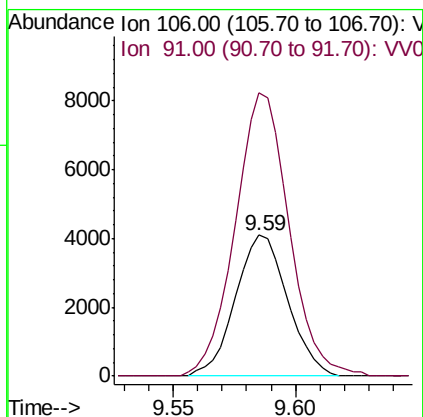
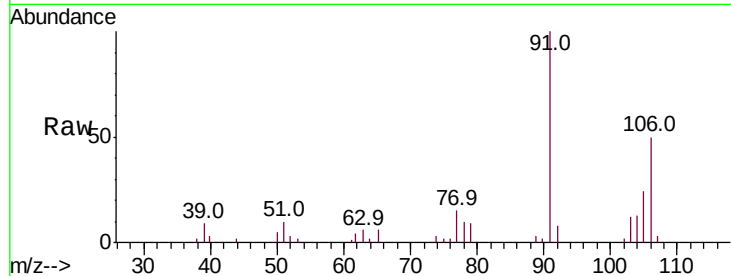
#54
o-Xylene
Concen: 2.719 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion:106 Resp: 6085
Ion Ratio Lower Upper
106 100
91 200.8 150.4 279.2

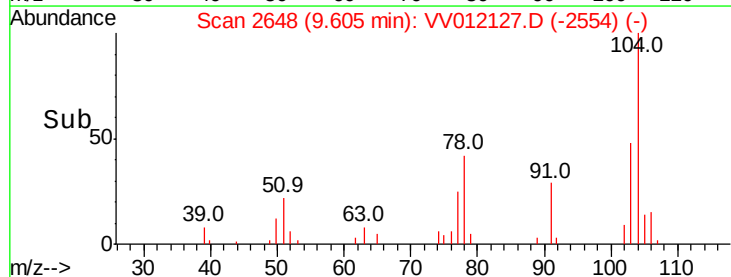
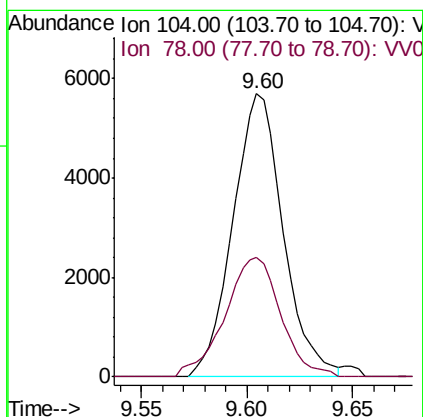
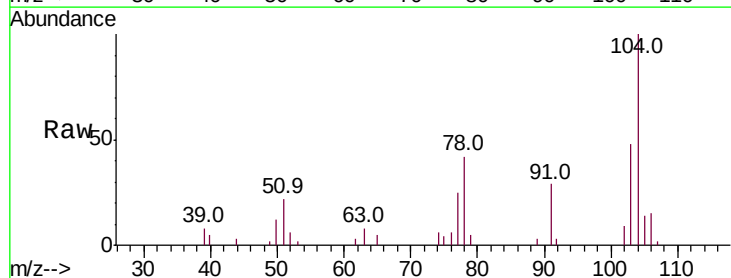
Manual Integrations
APPROVED

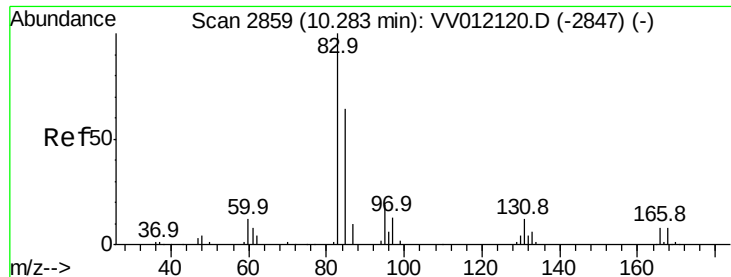
MMDadoda
8/8/2019 11:45:29 AM



#55
Styrene
Concen: 2.507 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Tgt Ion:104 Resp: 9449
Ion Ratio Lower Upper
104 100
78 42.0 32.0 59.4





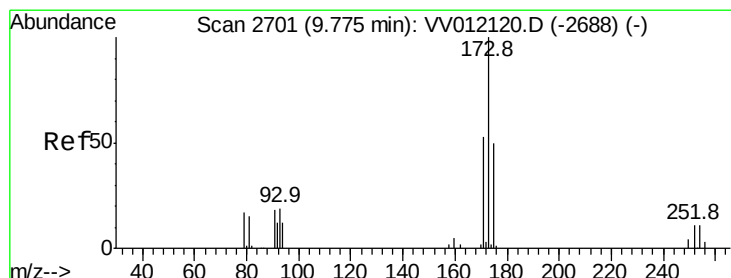
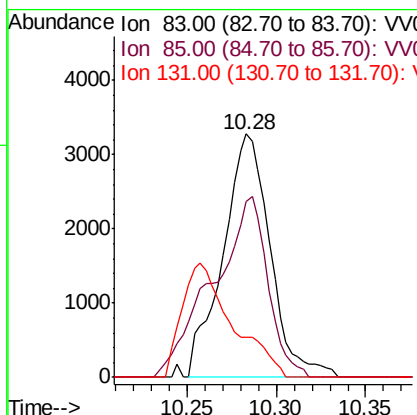
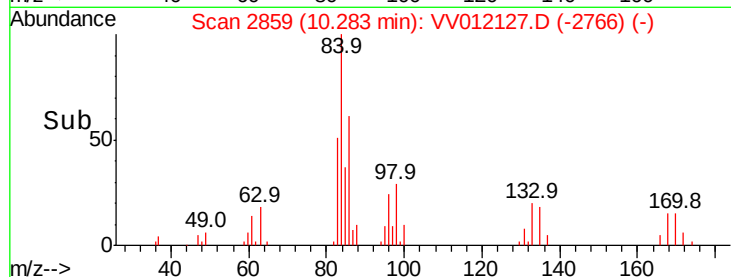
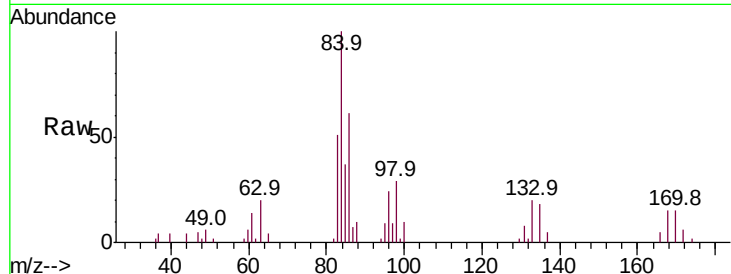
#57
 1,1,2,2-Tetrachloroethane
 Concen: 3.191 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
83	100		
85	72.2	44.6	82.8
131	16.5	9.3	13.9#

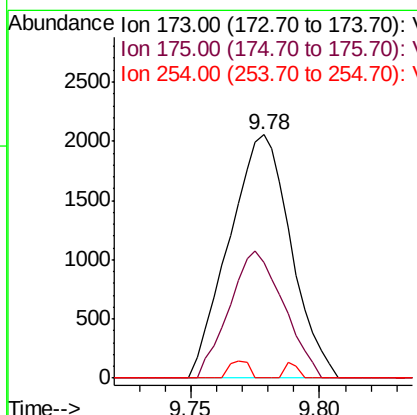
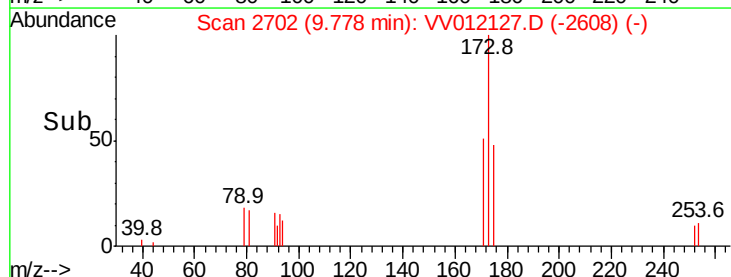
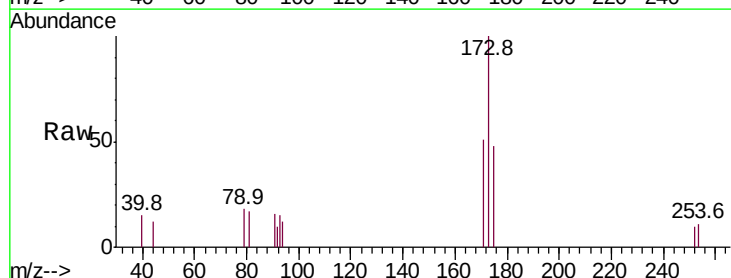
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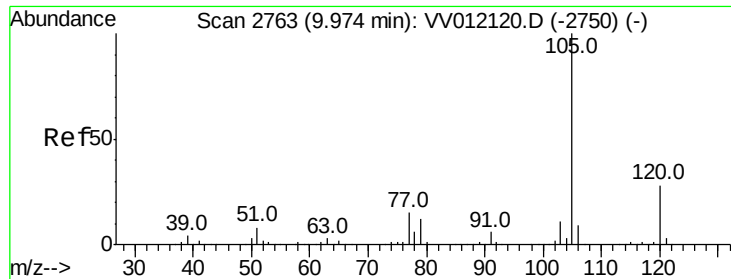
MMDadoda
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#59
 Bromoform
 Concen: 2.968 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Tgt Ion	Ratio	Lower	Upper
173	100		
175	46.0	38.3	57.5
254	2.2	8.9	13.3#





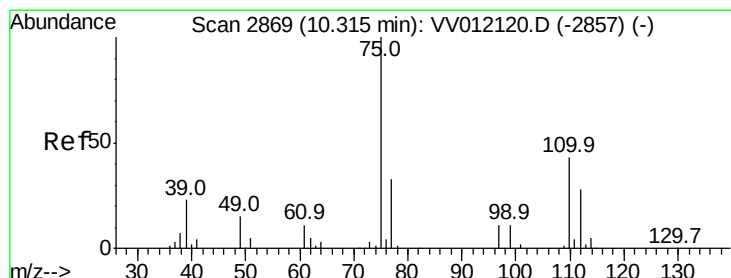
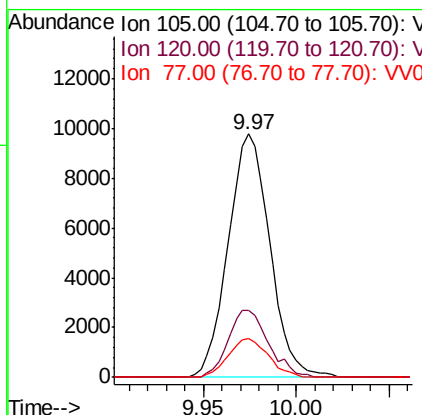
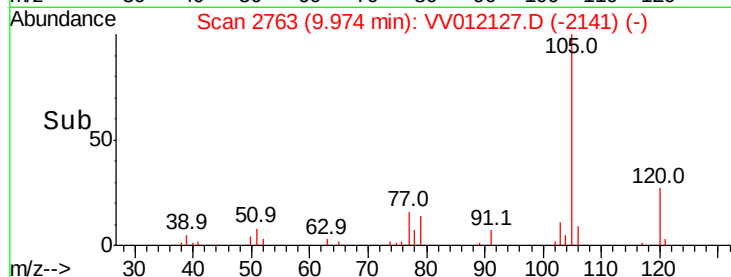
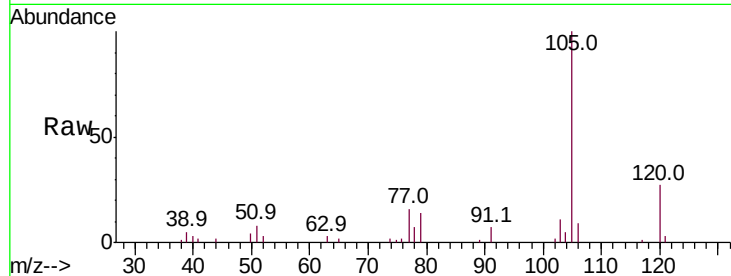
#60
Isopropylbenzene
Concen: 2.835 ug/L
RT: 9.97 min Scan# 2763
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.4	32.0
77	15.3	11.6	17.4

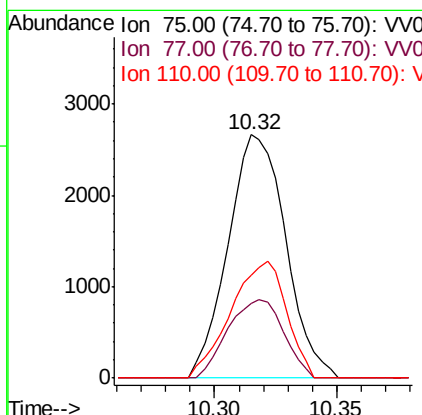
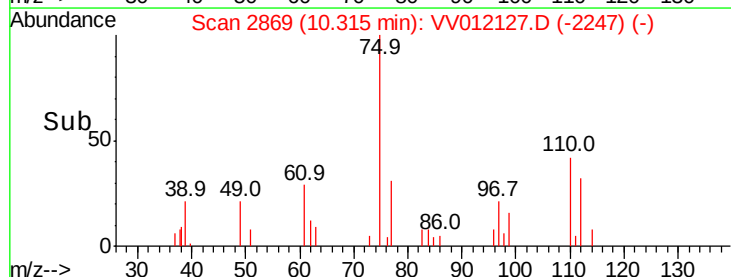
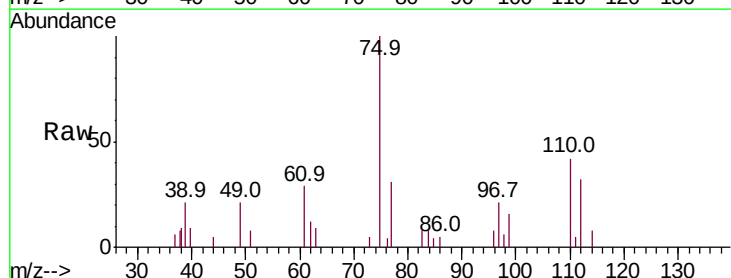
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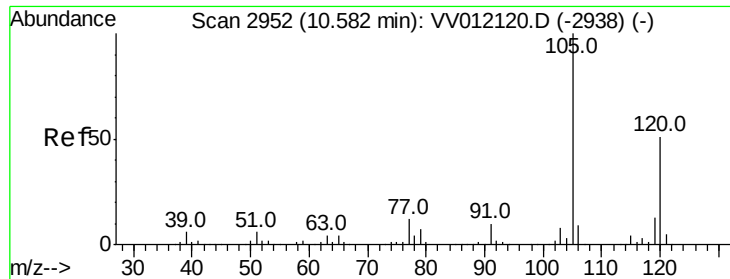
MMDadoda
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#61
1,2,3-Trichloropropane
Concen: 3.271 ug/L
RT: 10.32 min Scan# 2869
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.7	38.5
110	46.4	34.2	51.4





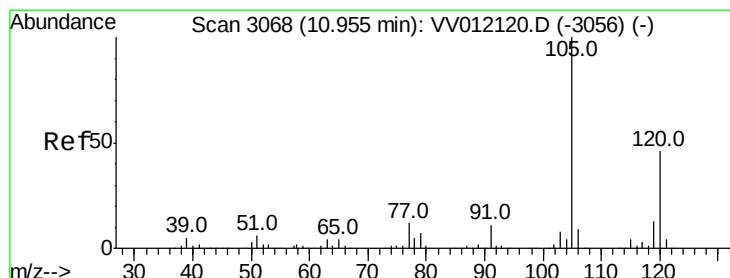
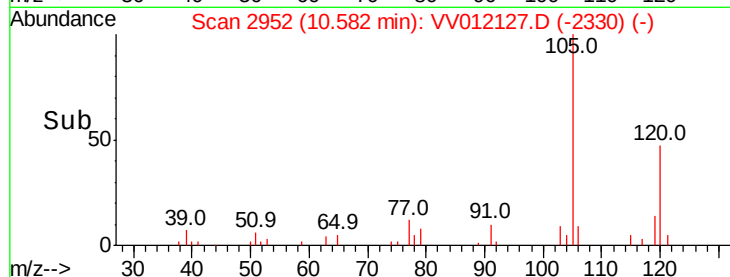
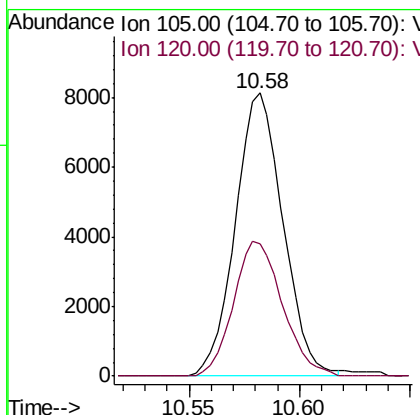
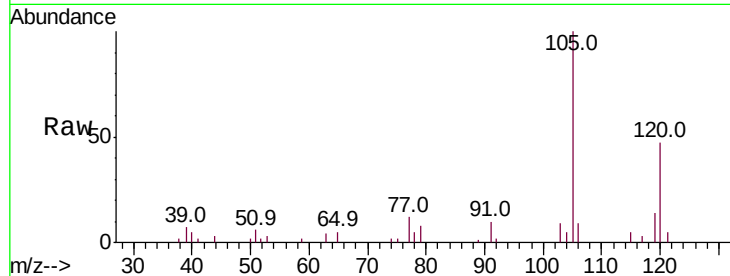
#62
 1,3,5-Trimethylbenzene
 Concen: 2.622 ug/L
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
105	100		
120	49.0	39.2	58.8

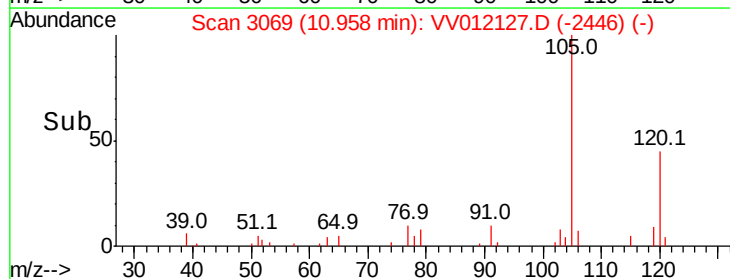
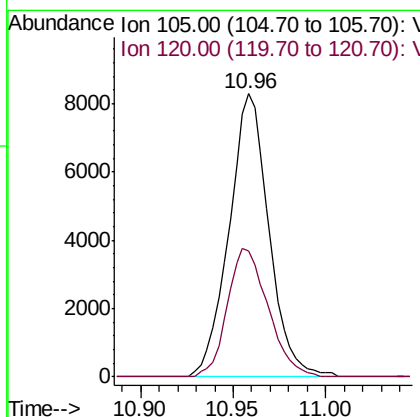
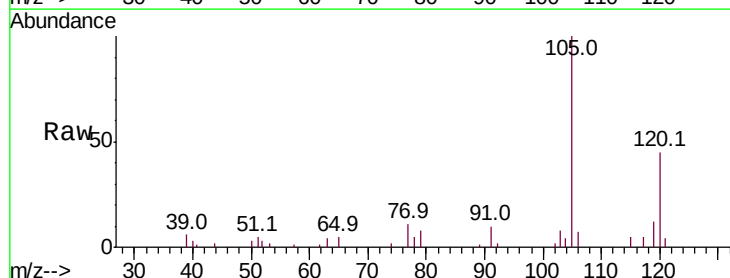
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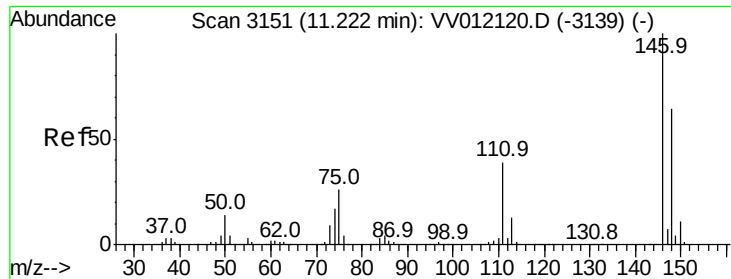
MMDadoda
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.694 ug/L
 RT: 10.96 min Scan# 3069
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	36.7	55.1





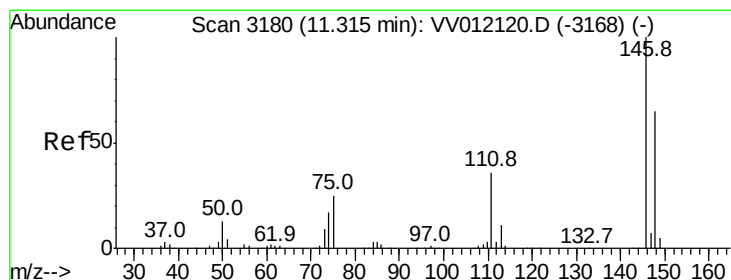
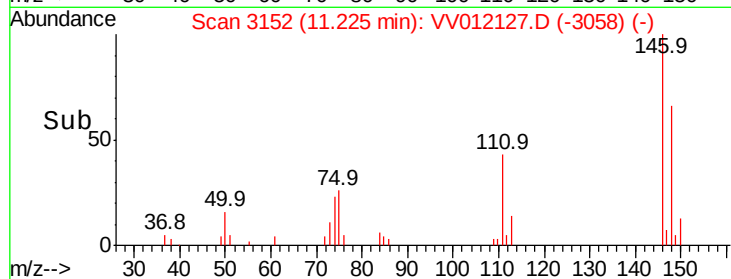
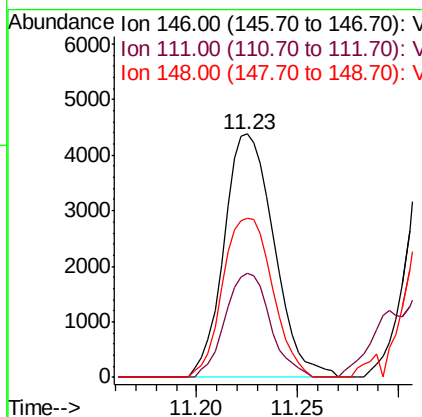
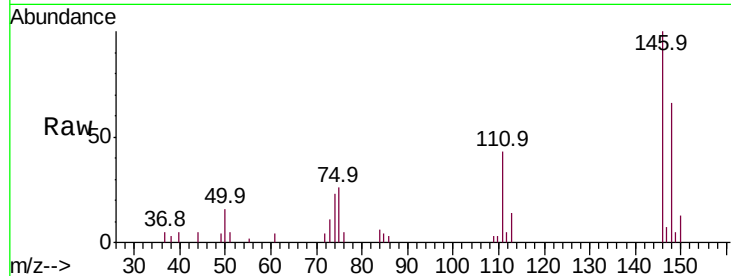
#64
 1,3-Dichlorobenzene
 Concen: 2.801 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.7	26.8	49.8
148	65.5	44.6	82.8

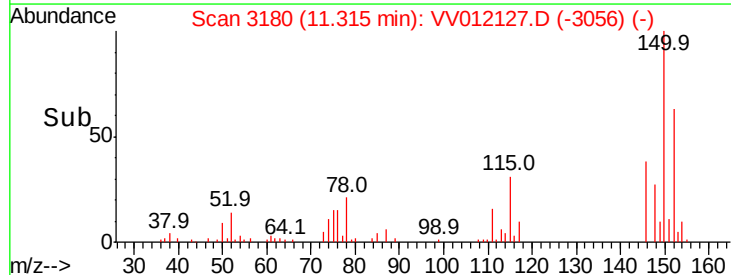
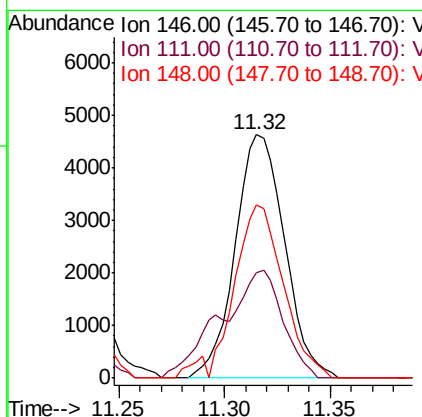
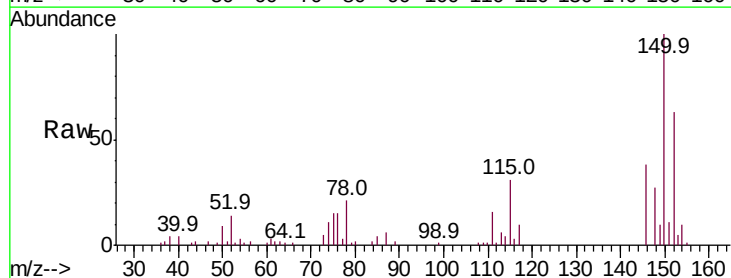
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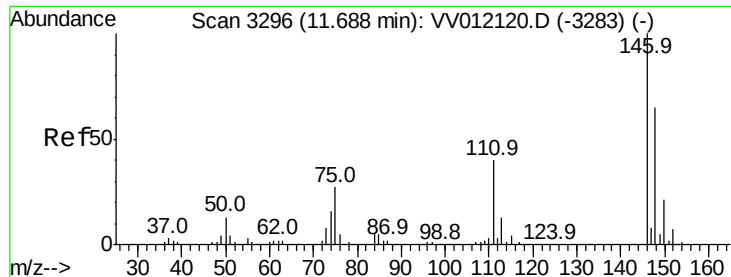
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#65
 1,4-Dichlorobenzene
 Concen: 2.750 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.3	25.8	47.8
148	71.1	45.2	84.0





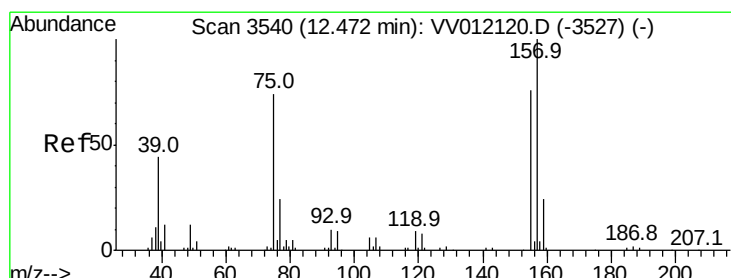
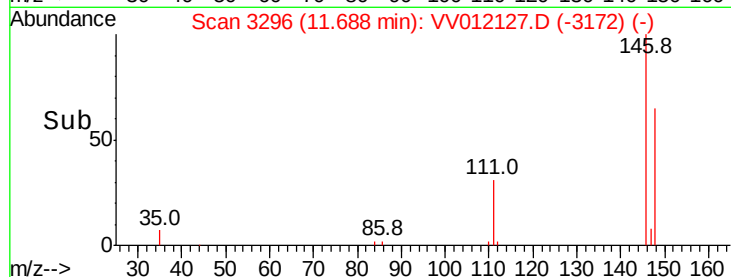
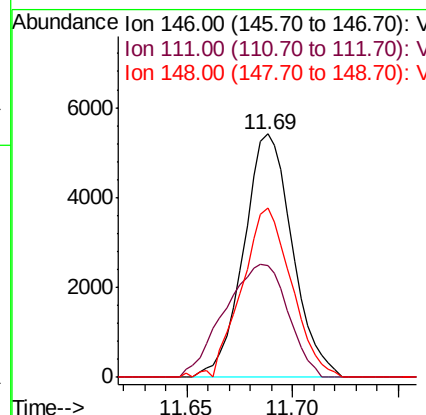
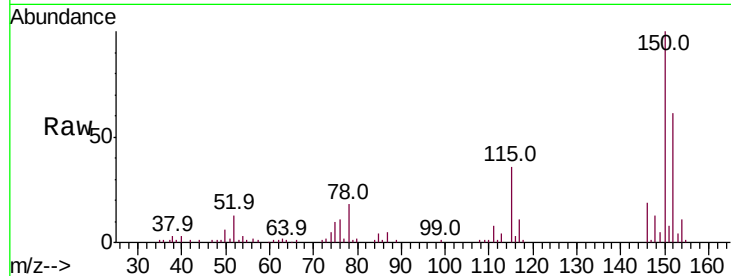
#67
 1,2-Dichlorobenzene
 Concen: 3.139 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.8	32.2	48.2
148	69.6	53.2	79.8

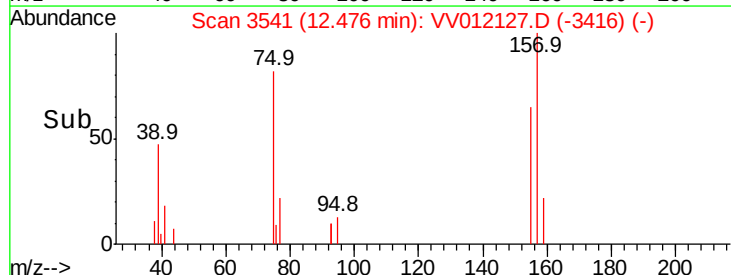
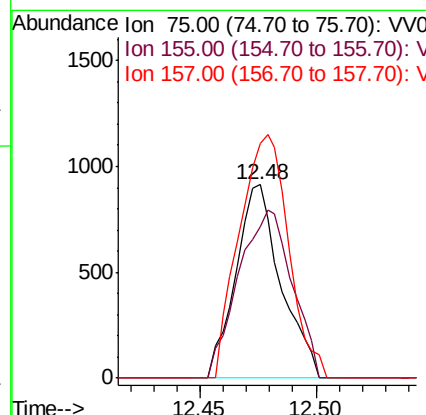
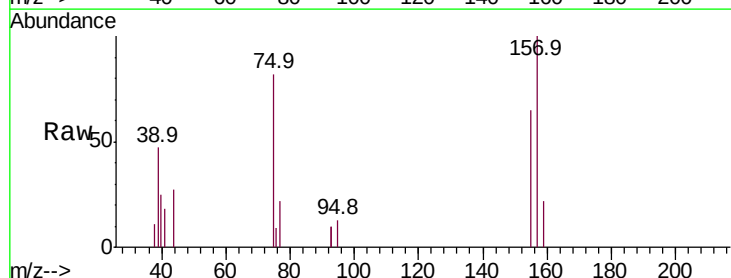
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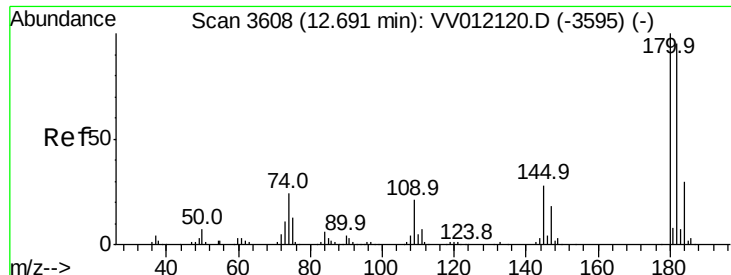
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.797 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.6	81.2	121.8#
157	121.6	102.3	153.5





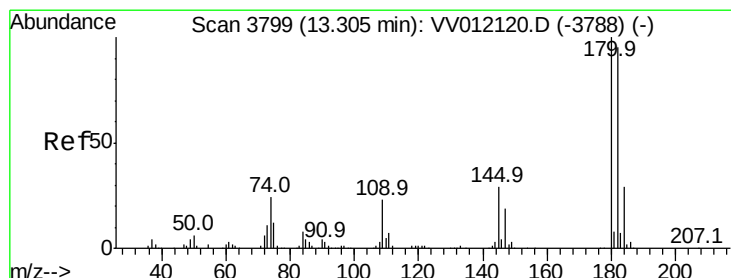
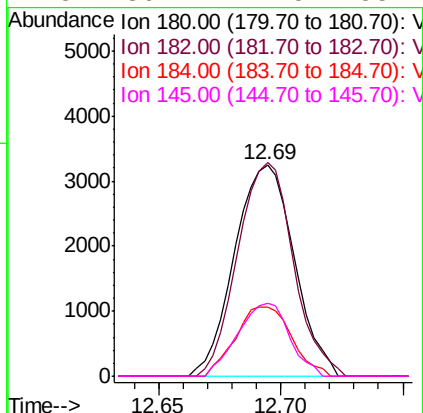
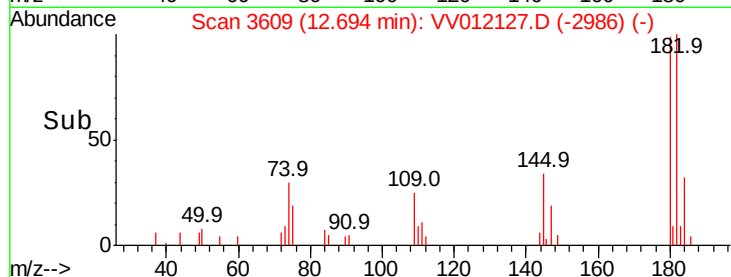
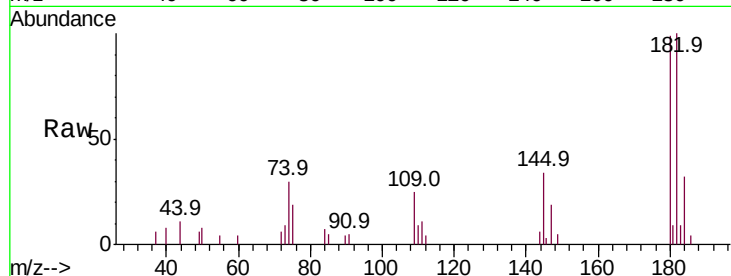
#69
 1,3,5-Trichlorobenzene
 Concen: 2.493 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tot Ion:	180	Resp:	5491
Ion Ratio	Lower	Upper	
180	100		
182	94.5	76.5	114.7
184	31.1	24.6	36.8
145	30.2	22.5	33.7

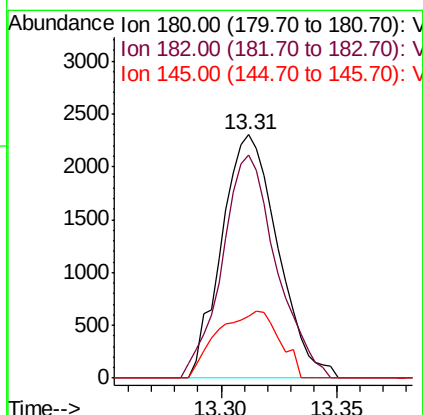
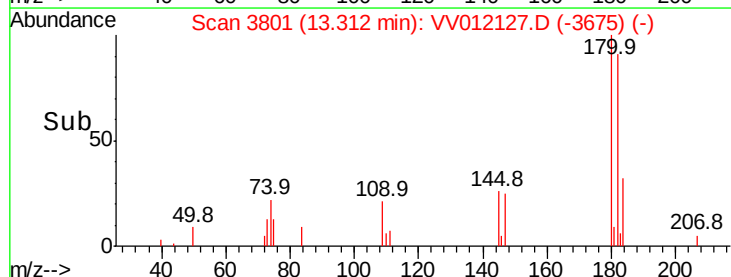
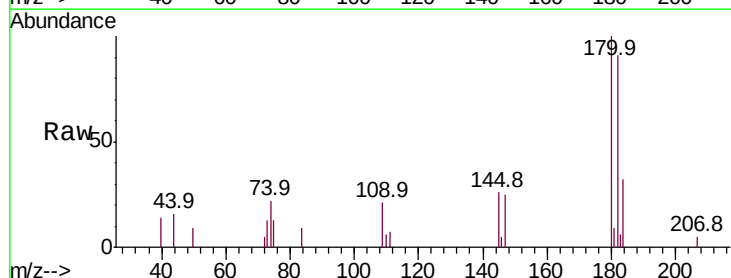
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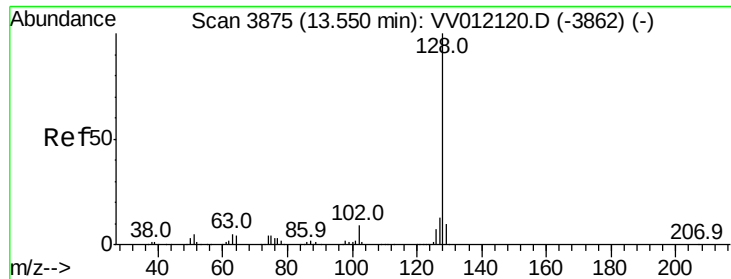
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#70
 1,2,4-trichlorobenzene
 Concen: 2.023 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.01 min
 Lab File: VV012127.D
 Acq: 07 Aug 2019 14:58

Tgt Ion:	180	Resp:	3863
Ion Ratio	Lower	Upper	
180	100		
182	88.4	76.5	114.7
145	30.4	23.3	34.9





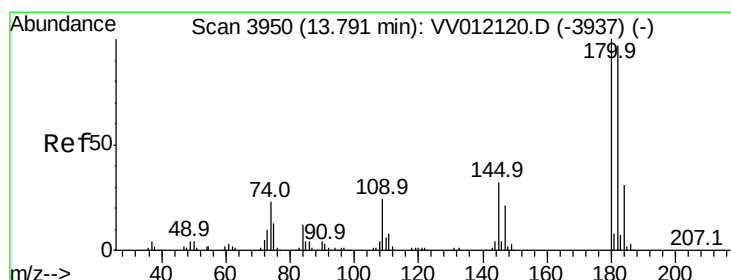
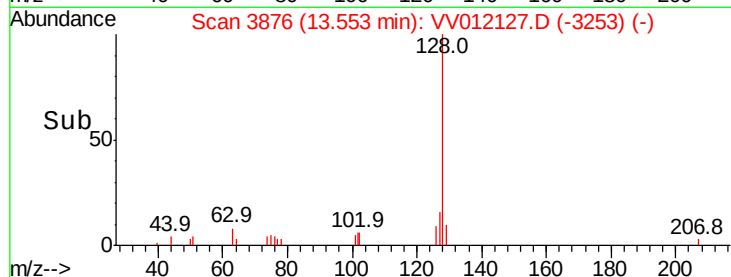
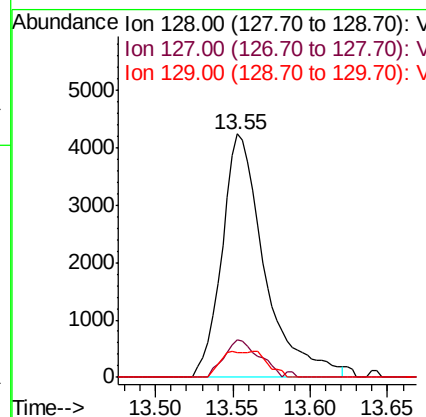
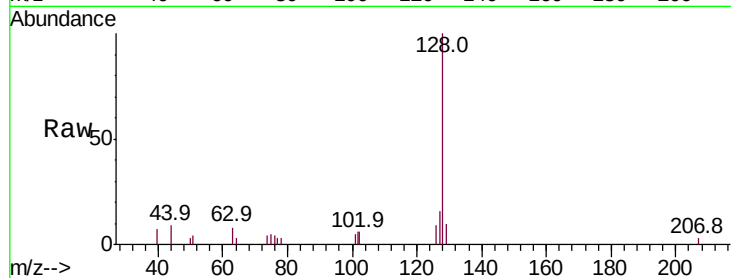
#71
Naphthalene
Concen: 1.673 ug/L
RT: 13.55 min Scan# 3876
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	15.8
129	5.9	8.6	12.8#

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#72
1,2,3-Trichlorobenzene
Concen: 2.063 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV012127.D
Acq: 07 Aug 2019 14:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.0	77.2	115.8
145	29.5	24.6	36.8

