

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120219\
 Data File : VL034427.D
 Acq On : 2 Dec 2019 15:38
 Operator : SY/AP
 Sample : K6068-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2DL

Manual Integrations
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Quant Time: Dec 03 12:01:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	998284	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2095232	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.16	117	2062866	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1667208	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1567239	8.678	ppbv	99
9) Propene	2.99	41	53404	0.966	ppbv	98
13) Ethanol	3.60	45	67975	4.413	ppbv	91
15) Acetone	3.85	43	584719	4.090	ppbv	99
17) tert-Butyl alcohol	4.31	59	64298m	0.535	ppbv	
19) Isopropyl Alcohol	3.97	45	731715	7.986	ppbv	100
22) trans-1,2-Dichloroethene	4.91	96	32604	0.619	ppbv	94
29) Chloroform	5.77	83	325871	1.836	ppbv	94
31) cis-1,2-Dichloroethene	5.57	61	1963411	17.334	ppbv	95
32) 1,1,1-Trichloroethane	6.55	97	1454229	8.738	ppbv	98
36) Benzene	6.94	78	55353	0.264	ppbv #	93
38) Trichloroethene	7.91	130	13922029	161.975	ppbv	88
52) Tetrachloroethene	11.29	164	2240049	24.718	ppbv	97
53) Toluene	9.86	91	112901	0.475	ppbv	99
59) m/p-Xylene	13.04	91	75061m	0.271	ppbv	
60) o-Xylene	13.76	91	26952m	0.099	ppbv	

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

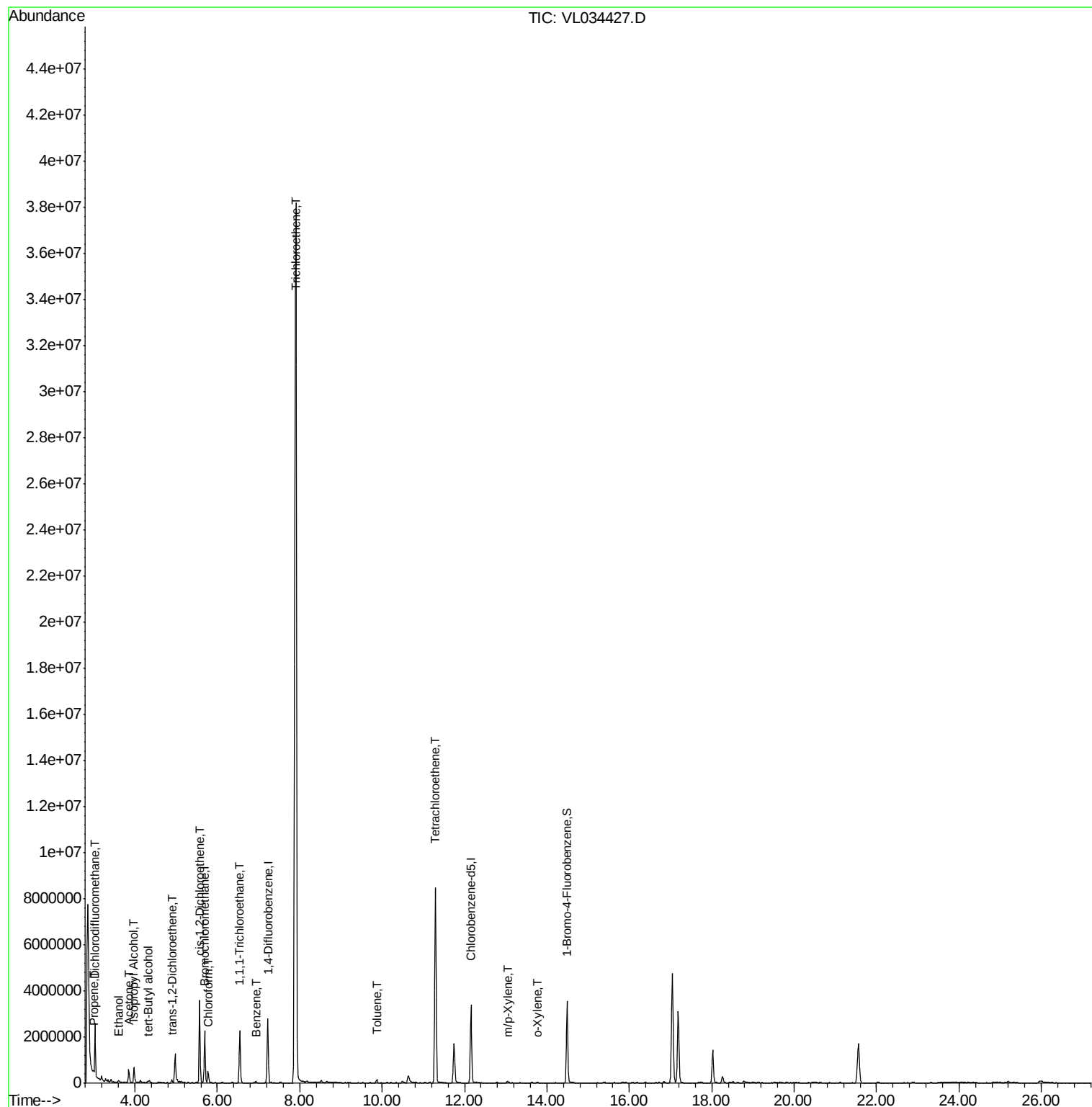
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120219\
Data File : VL034427.D
Acq On : 2 Dec 2019 15:38
Operator : SY/AP
Sample : K6068-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

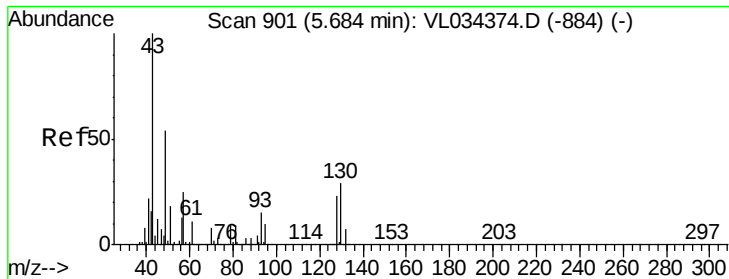
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

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Quant Time: Dec 03 12:01:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Instrument :

MSVOA_L

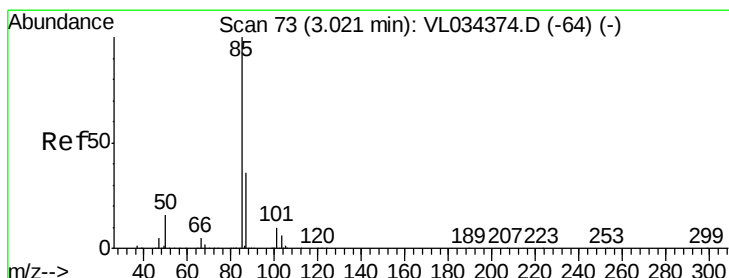
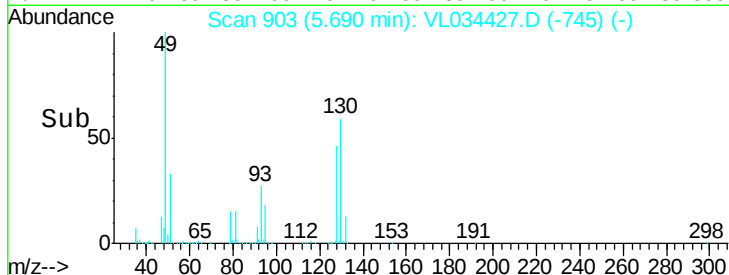
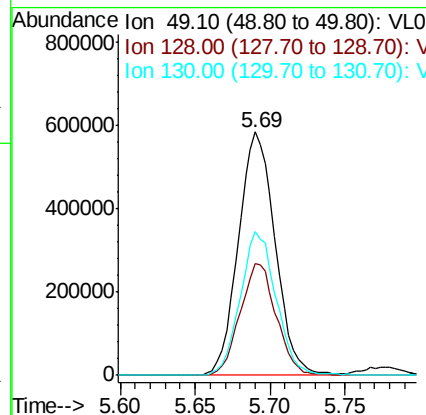
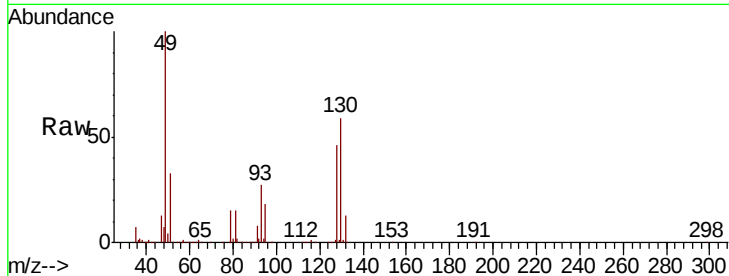
ClientSampled :

SV-2DL

Tot Ion:	49	Resp:	998284
Ion Ratio	Lower	Upper	
49	100		
128	45.7	21.8	65.3
130	58.1	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 8.678 ppbv

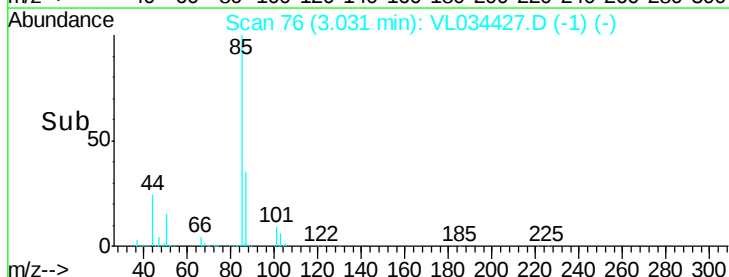
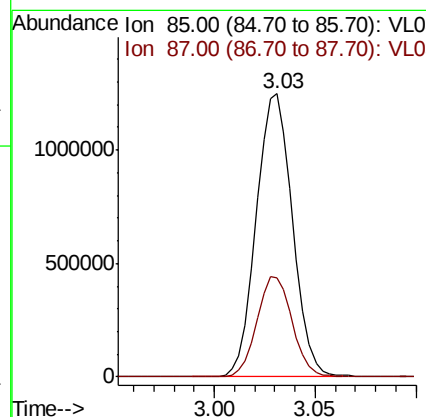
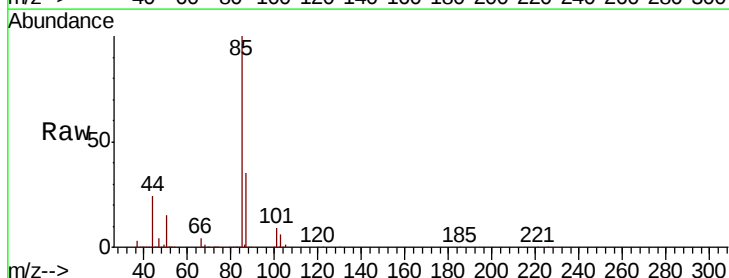
RT: 3.03 min Scan# 76

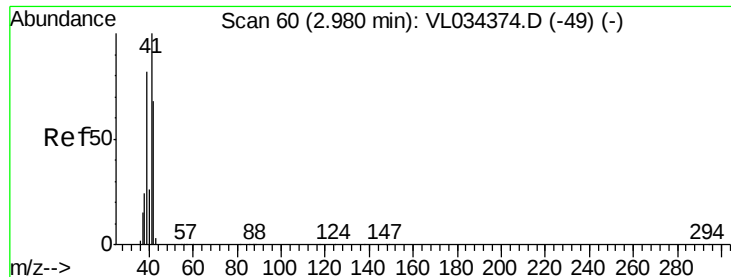
Delta R.T. 0.01 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Tgt Ion:	85	Resp:	1567239
Ion Ratio	Lower	Upper	
85	100		
87	34.9	28.5	42.7





#9

Propene

Concen: 0.966 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL

Tot Ion: 41 Resp: 53404

Ion Ratio Lower Upper

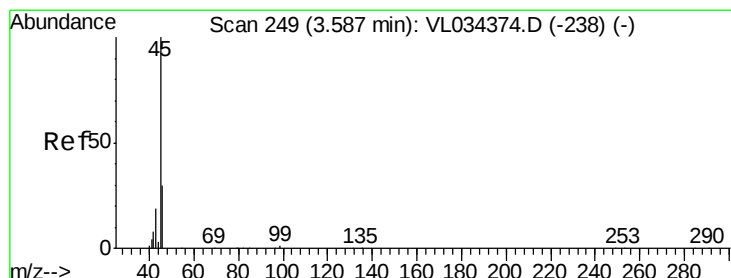
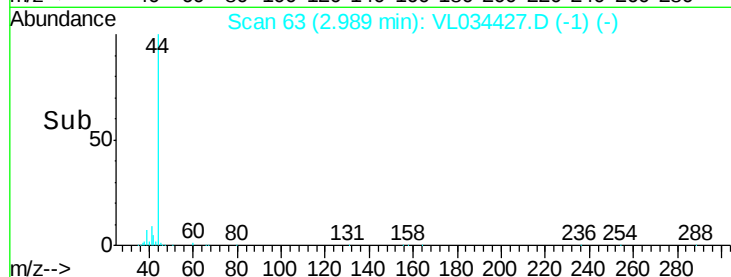
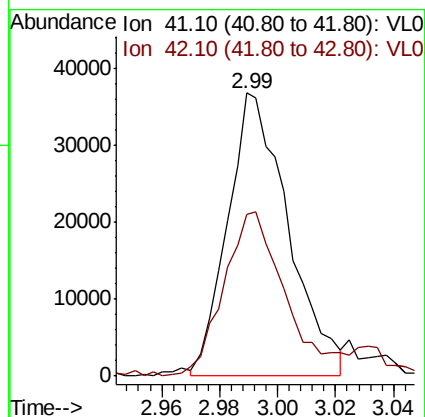
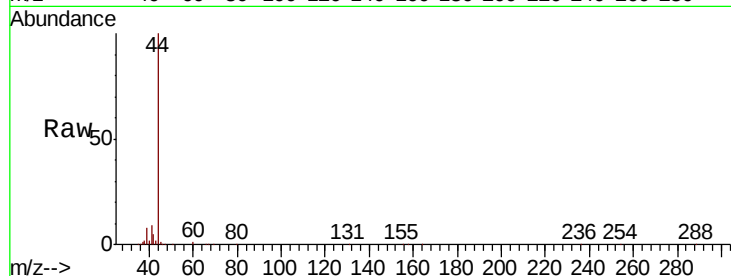
41 100

42 66.7 54.6 82.0

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#13

Ethanol

Concen: 4.413 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.01 min

Lab File: VL034427.D

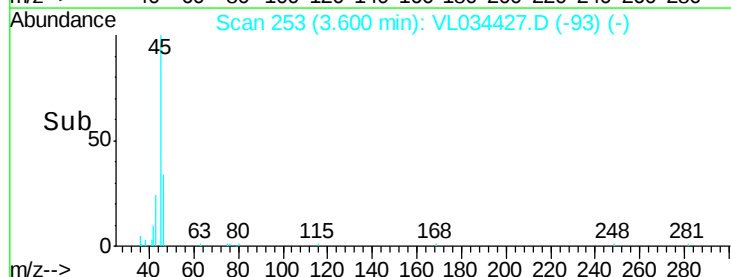
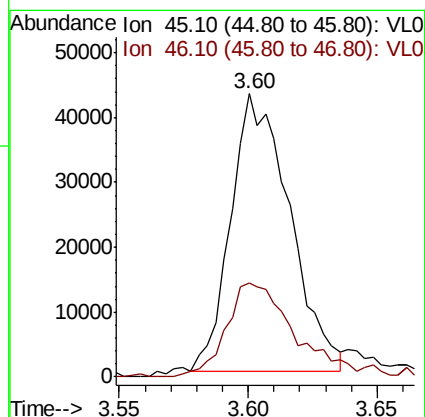
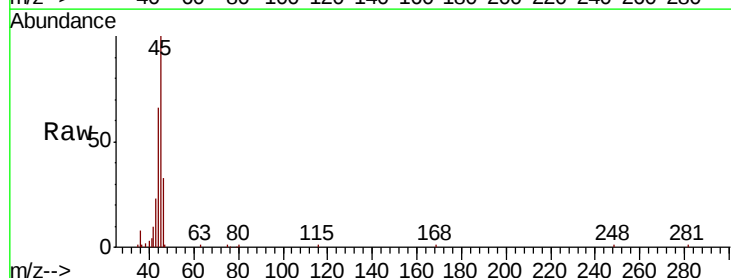
Acq: 2 Dec 2019 15:38

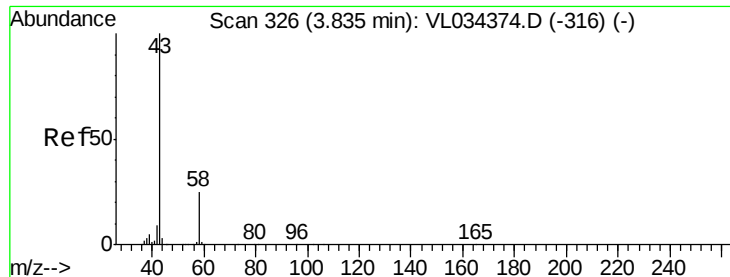
Tgt Ion: 45 Resp: 67975

Ion Ratio Lower Upper

45 100

46 40.1 13.8 55.4





#15

Acetone

Concen: 4.090 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.02 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL

Tot Ion: 43 Resp: 584719

Ion Ratio Lower Upper

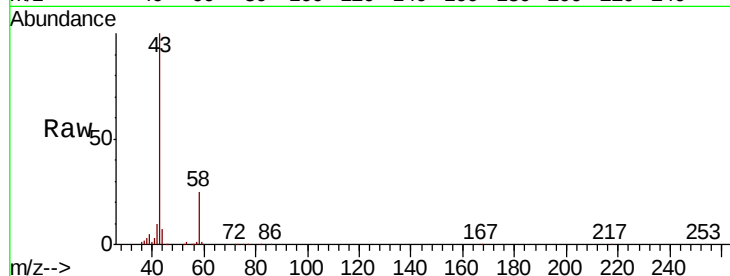
43 100

58 24.6 20.2 30.4

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

400000

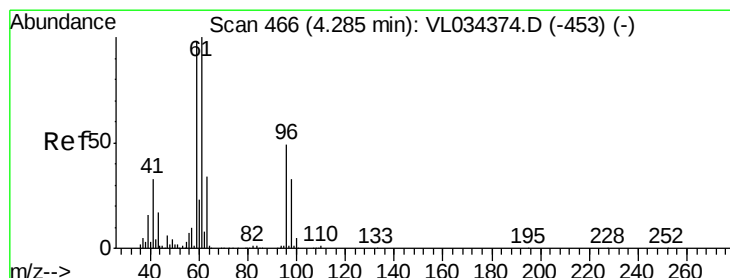
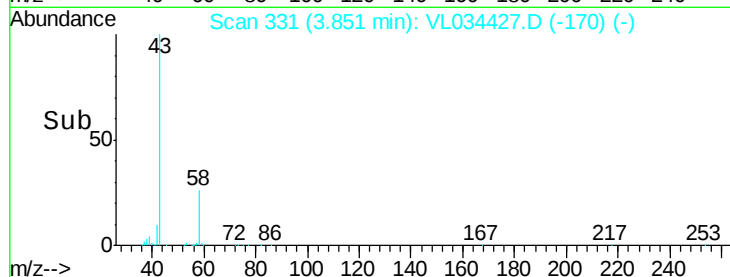
300000

200000

100000

0

Time-->



#17

tert-Butyl alcohol

Concen: 0.535 ppbv m

RT: 4.31 min Scan# 473

Delta R.T. 0.02 min

Lab File: VL034427.D

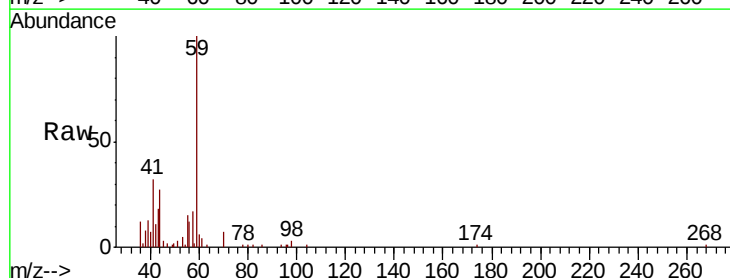
Acq: 2 Dec 2019 15:38

Tgt Ion: 59 Resp: 64298

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.31

30000

25000

20000

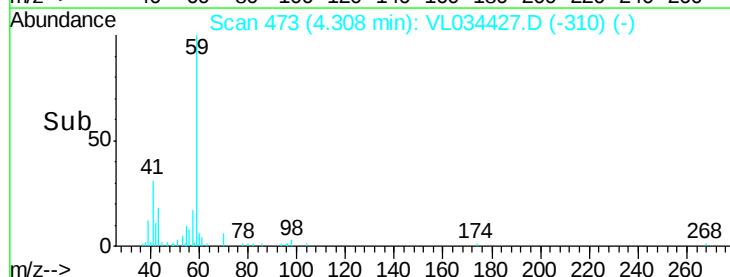
15000

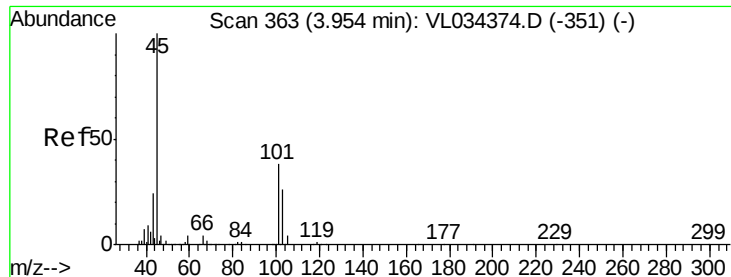
10000

5000

0

Time-->





#19

Isopropyl Alcohol

Concen: 7.986 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Instrument :

MSVOA_L

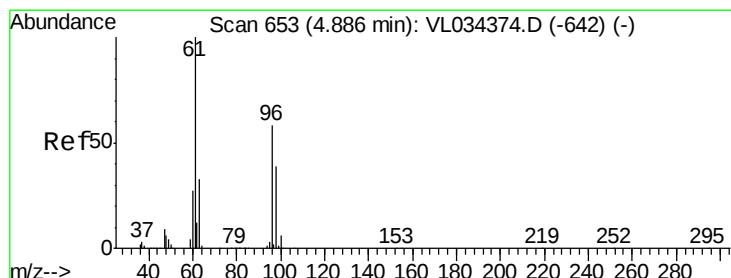
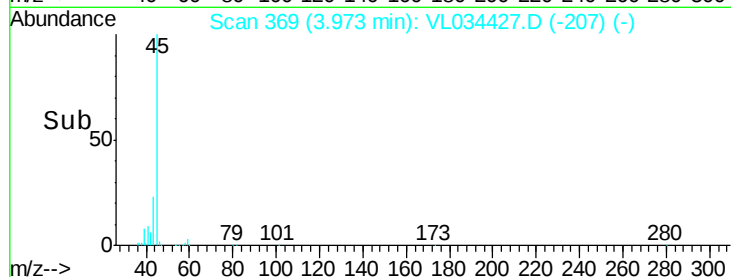
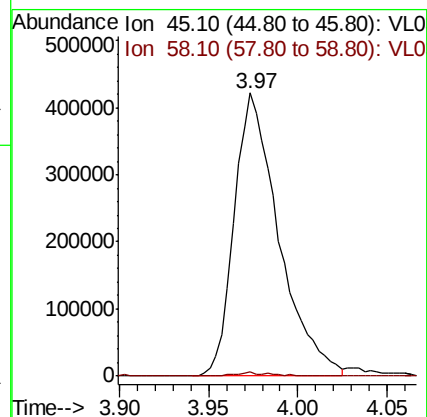
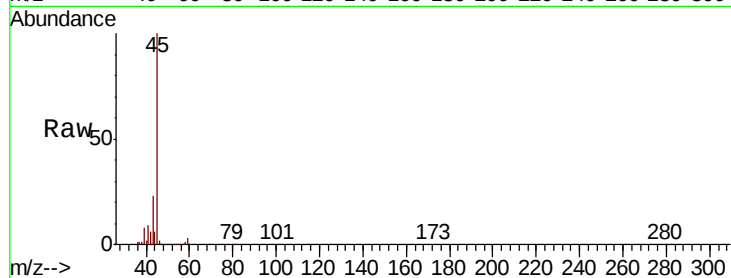
ClientSampleId :

SV-2DL

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.5	1.3	1.9

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#22

trans-1,2-Dichloroethene

Concen: 0.619 ppbv

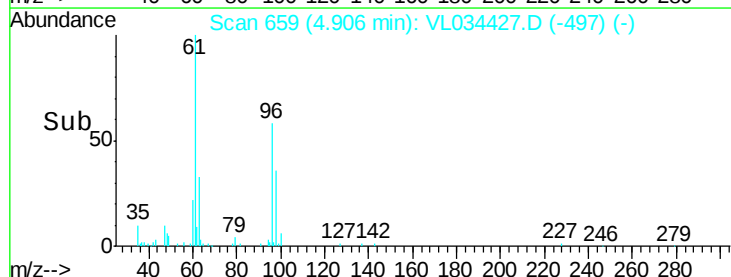
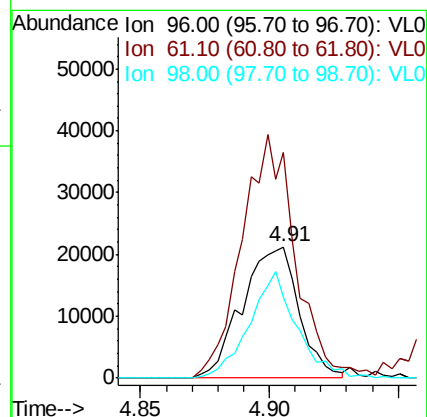
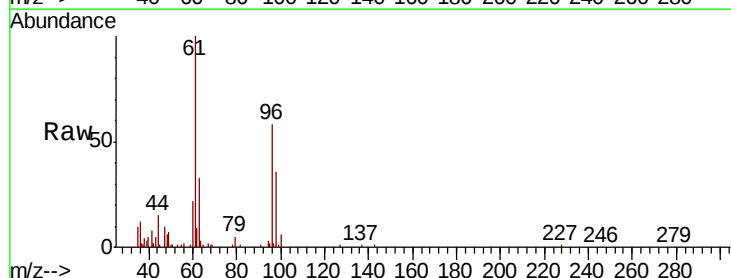
RT: 4.91 min Scan# 659

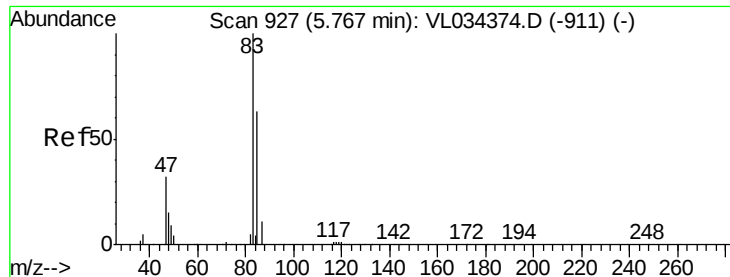
Delta R.T. 0.02 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.3	137.9	206.9
98	59.4	53.5	80.3





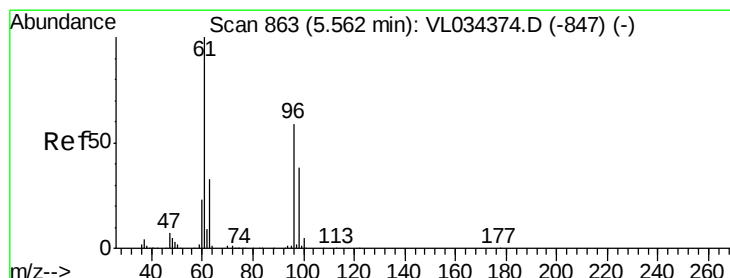
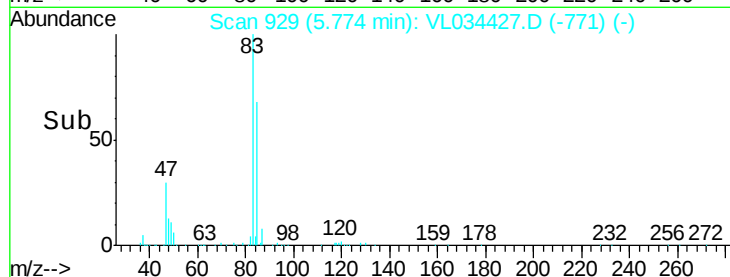
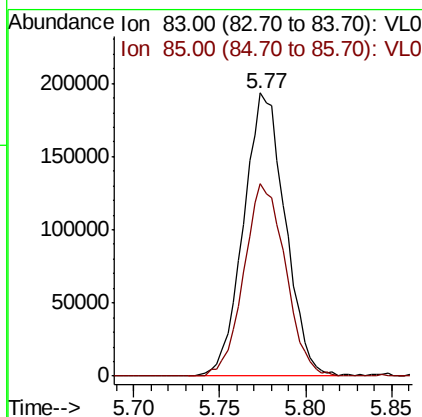
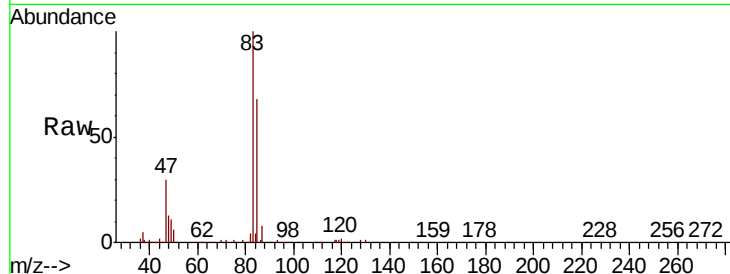
#29
Chloroform
Concen: 1.836 ppbv
RT: 5.77 min Scan# 929
Delta R.T. 0.01 min
Lab File: VL034427.D
Acq: 2 Dec 2019 15:38

Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

Tot Ion: 83 Resp: 325871
Ion Ratio Lower Upper
83 100
85 68.0 50.4 75.6

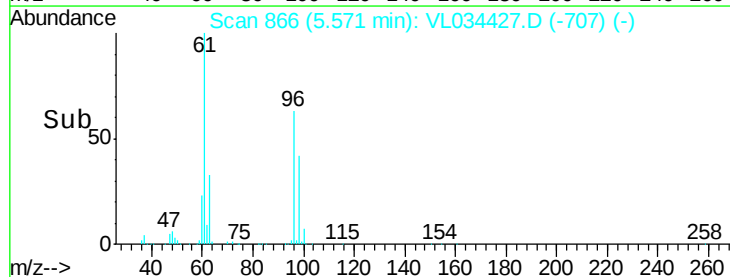
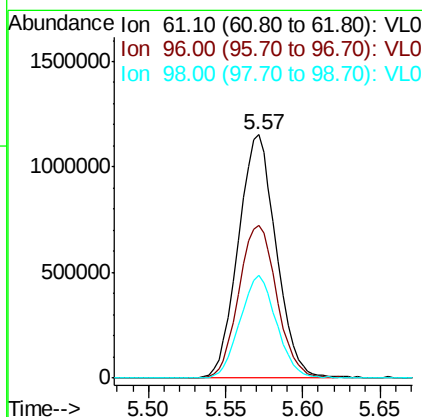
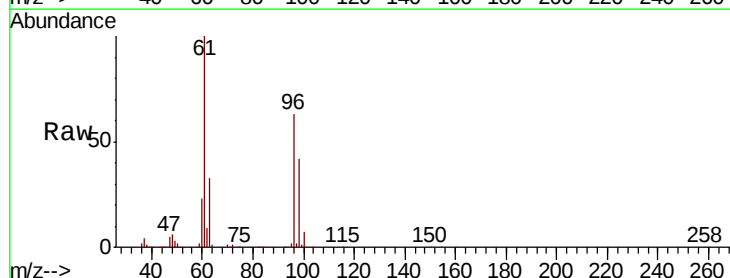
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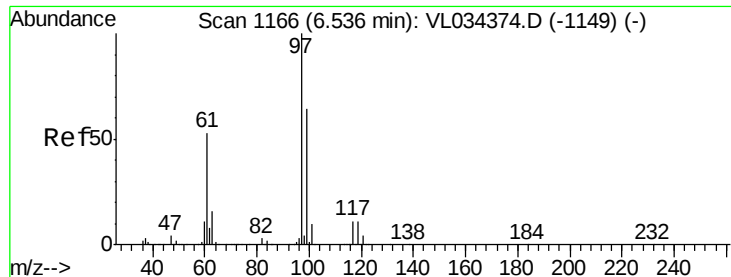
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#31
cis-1,2-Dichloroethene
Concen: 17.334 ppbv
RT: 5.57 min Scan# 866
Delta R.T. 0.01 min
Lab File: VL034427.D
Acq: 2 Dec 2019 15:38

Tgt Ion: 61 Resp: 1963411
Ion Ratio Lower Upper
61 100
96 62.7 47.4 71.2
98 42.0 30.6 45.8





#32

1,1,1-Trichloroethane

Concen: 8.738 ppbv

RT: 6.55 min Scan# 1169

Delta R.T. 0.01 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Instrument :

MSVOA_L

ClientSampled :

SV-2DL

Tot Ion: 97 Resp: 1454229

Ion Ratio Lower Upper

97 100

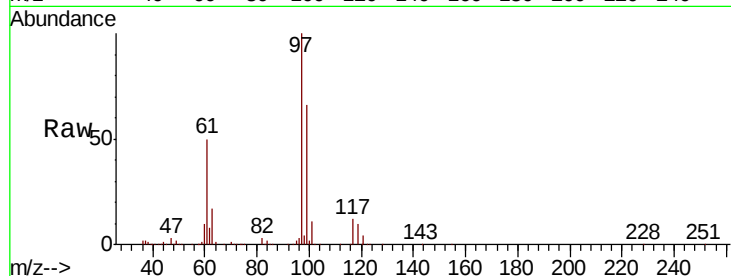
99 65.9 52.3 78.5

61 51.3 43.7 65.5

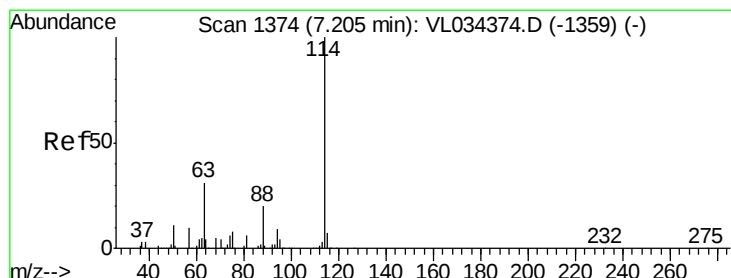
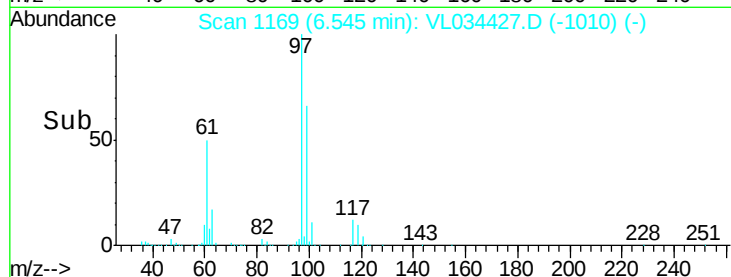
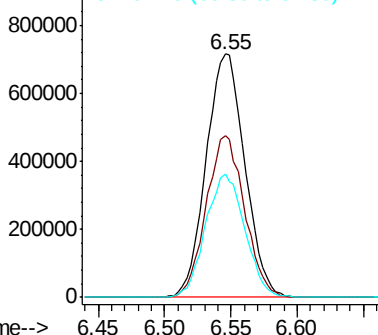
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Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. 0.02 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

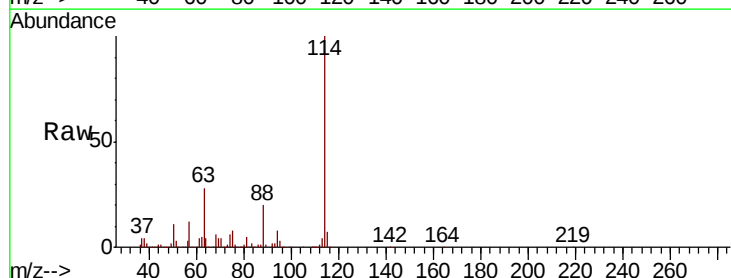
Tgt Ion: 114 Resp: 2095232

Ion Ratio Lower Upper

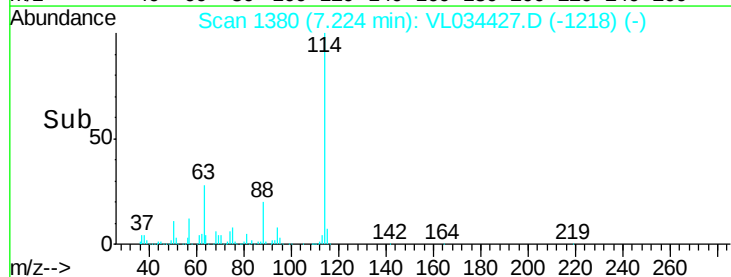
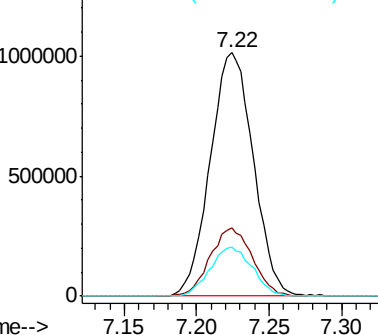
114 100

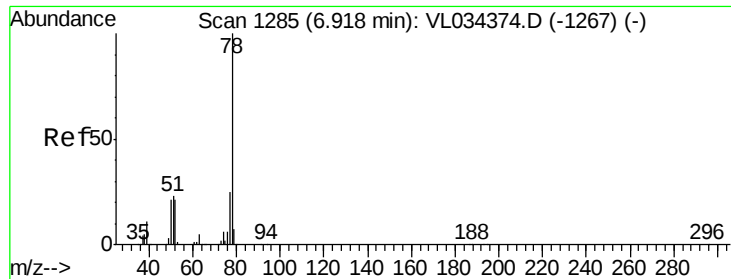
63 27.6 24.2 36.4

88 19.9 15.9 23.9



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#36

Benzene

Concen: 0.264 ppbv

RT: 6.94 min Scan# 1291

Delta R.T. 0.02 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Instrument :

MSVOA_L

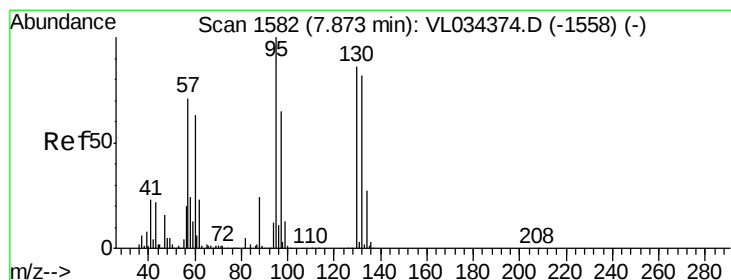
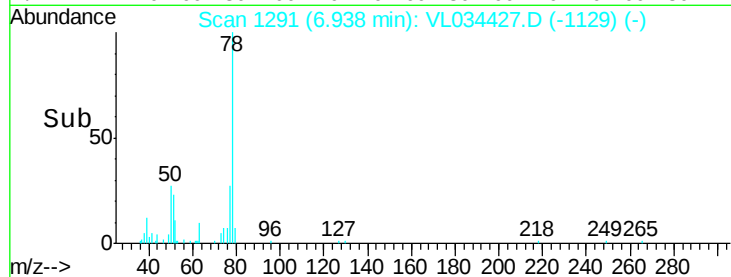
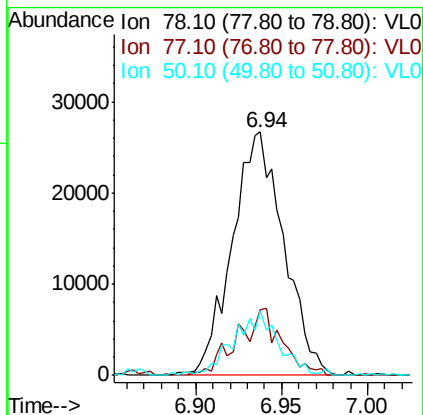
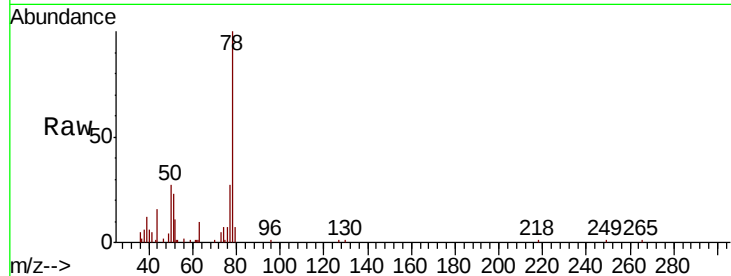
ClientSampleId :

SV-2DL

Tot Ion:	78	Resp:	55353
Ion Ratio	Lower	Upper	
78	100		
77	26.8	20.2	30.4
50	26.6	17.1	25.7#

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#38

Trichloroethene

Concen: 161.975 ppbv

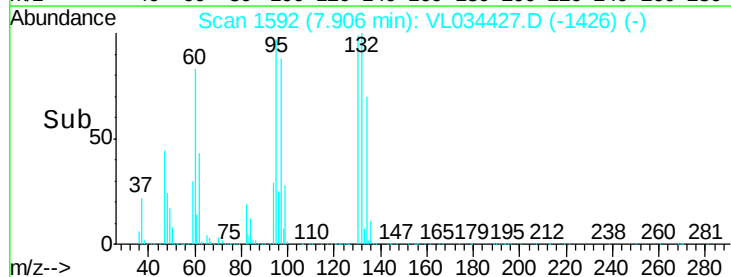
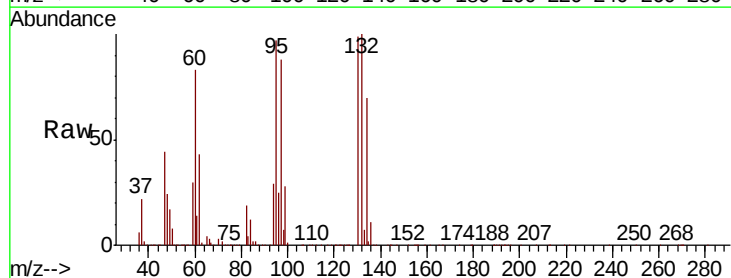
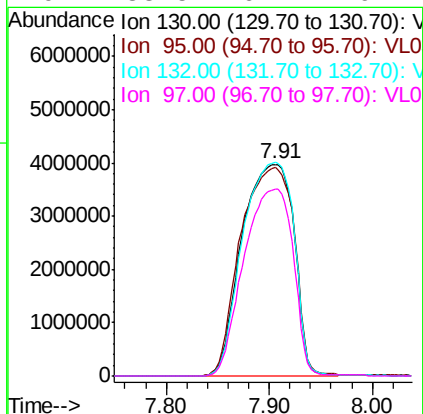
RT: 7.91 min Scan# 1592

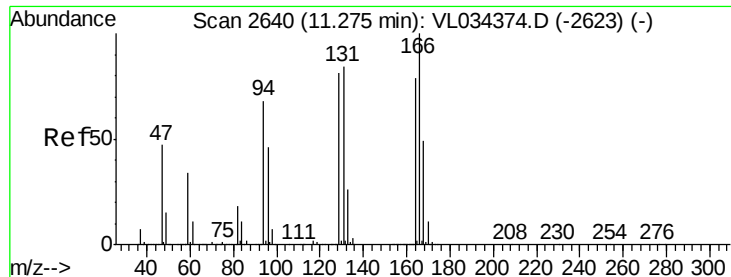
Delta R.T. 0.03 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Tgt Ion:	130	Resp:	13922029
Ion Ratio	Lower	Upper	
130	100		
95	98.3	93.4	140.0
132	100.9	76.4	114.6
97	88.5	61.1	91.7





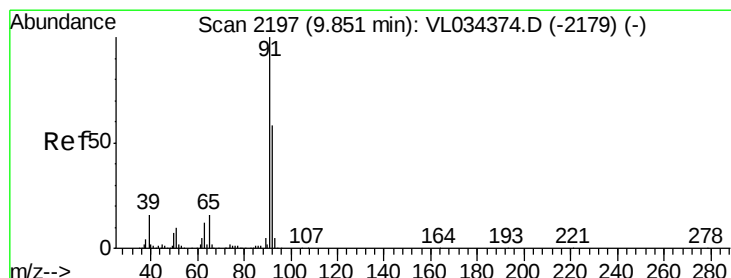
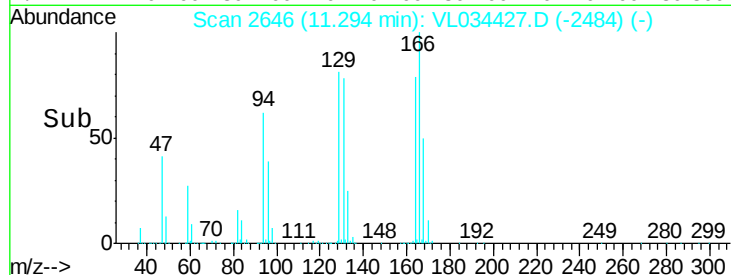
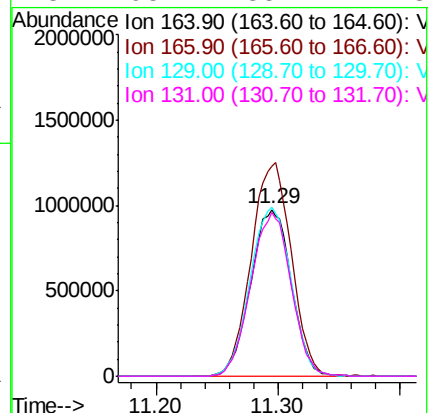
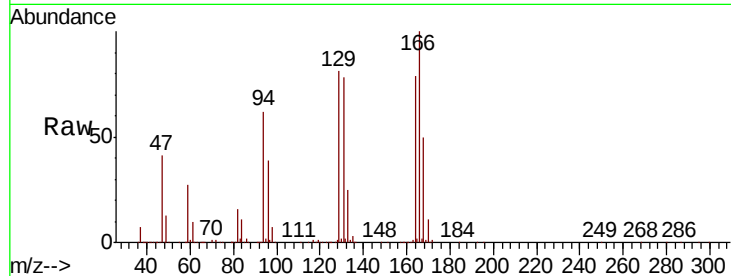
#52
Tetrachloroethene
Concen: 24.718 ppbv
RT: 11.29 min Scan# 2646
Delta R.T. 0.02 min
Lab File: VL034427.D
Acq: 2 Dec 2019 15:38

Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	125.9	101.7	152.5
129	101.6	82.6	123.8
131	98.2	85.2	127.8

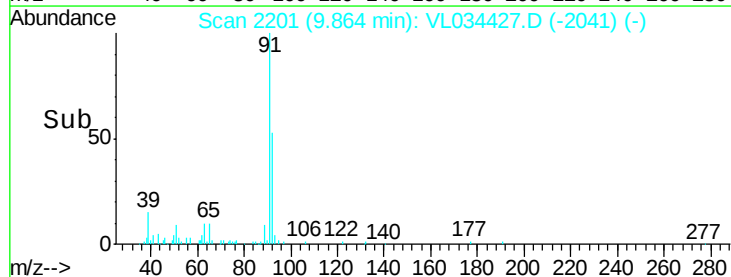
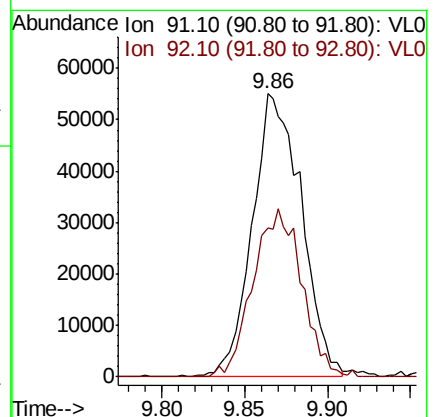
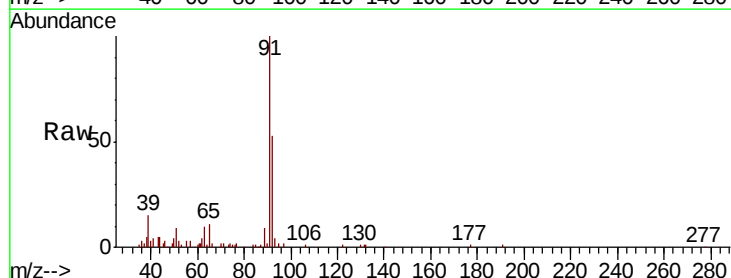
Manual Integrations
APPROVED

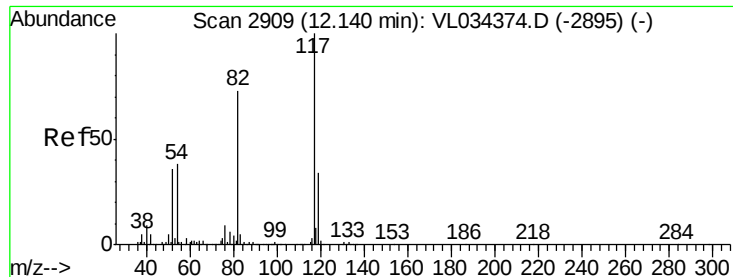
apatel
12/4/2019 4:46:48 PM



#53
Toluene
Concen: 0.475 ppbv
RT: 9.86 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VL034427.D
Acq: 2 Dec 2019 15:38

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.1	47.9	71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. 0.02 min

Lab File: VL034427.D

Acq: 2 Dec 2019 15:38

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL

Tot Ion:117 Resp: 2062866

Ion Ratio Lower Upper

117 100

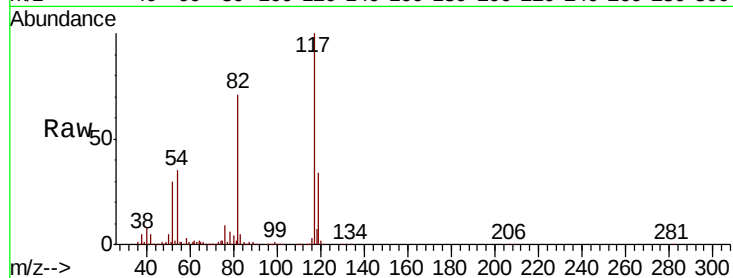
82 69.6 57.5 86.3

119 33.6 25.4 38.2

Manual Integrations
APPROVED

apatel

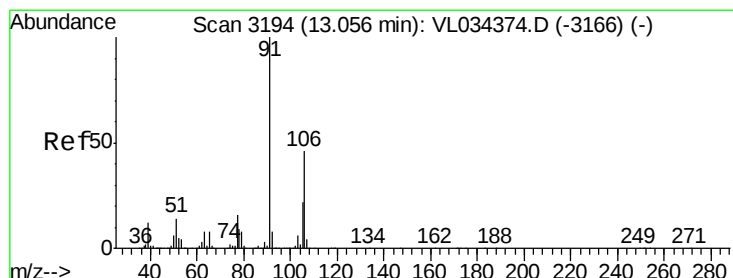
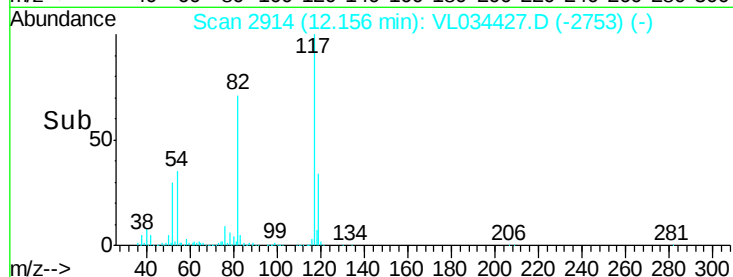
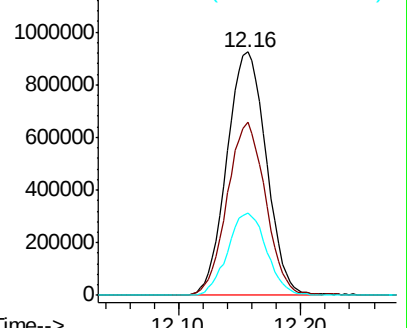
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.271 ppbv m

RT: 13.04 min Scan# 3189

Delta R.T. -0.02 min

Lab File: VL034427.D

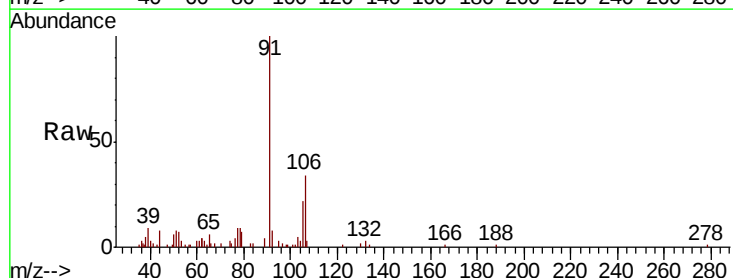
Acq: 2 Dec 2019 15:38

Tgt Ion: 91 Resp: 75061

Ion Ratio Lower Upper

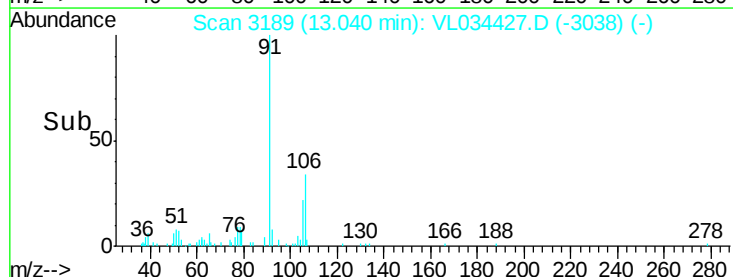
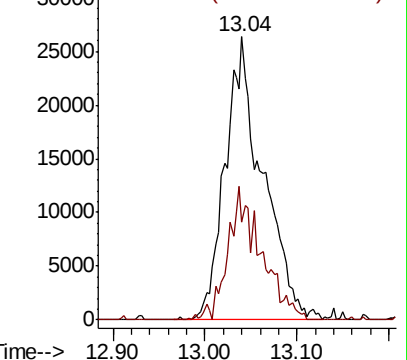
91 100

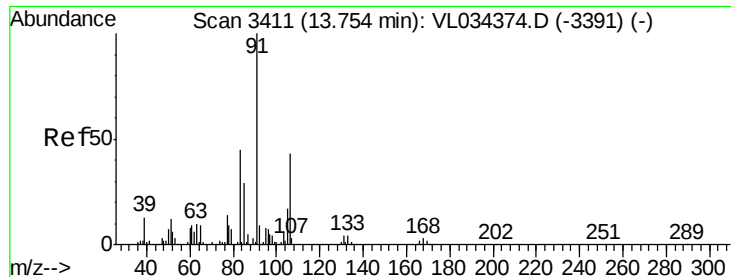
106 0.0 34.6 51.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





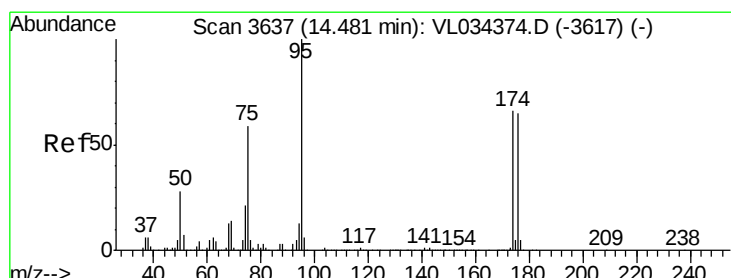
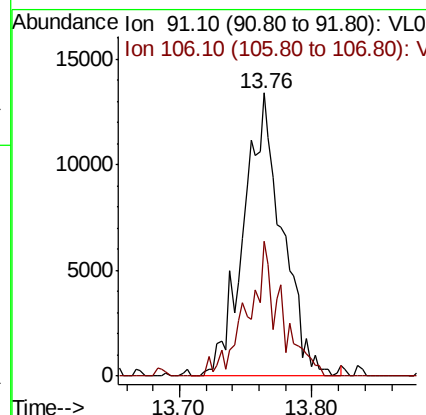
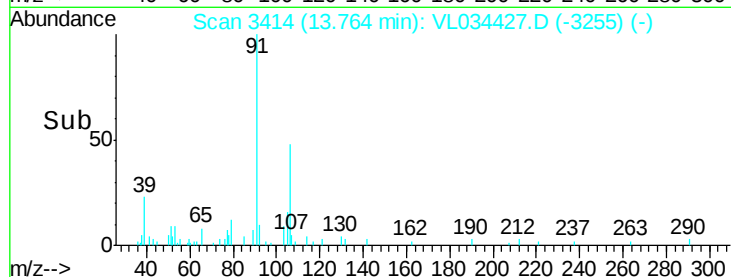
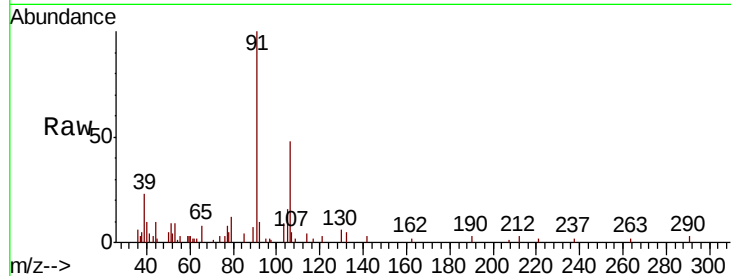
#60
o-Xylene
Concen: 0.099 ppbv m
RT: 13.76 min Scan# 3414
Delta R.T. 0.01 min
Lab File: VL034427.D
Acq: 2 Dec 2019 15:38

Instrument :
MSVOA_L
ClientSampled :
SV-2DL

Tot Ion: 91 Resp: 26952
Ion Ratio Lower Upper
91 100
106 0.0 21.3 64.0#

Manual Integrations
APPROVED

apatel
12/4/2019 4:46:48 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.607 ppbv
RT: 14.49 min Scan# 3640
Delta R.T. 0.01 min
Lab File: VL034427.D
Acq: 2 Dec 2019 15:38

Tgt Ion: 95 Resp: 1667208
Ion Ratio Lower Upper
95 100
174 69.1 52.2 78.2
175 5.1 3.8 5.8

